



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 05331580 USGS GAGE RM 1

NGS Name: 05331580 GAGE RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1598](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	115 N	17 W	444444.78	925052.98	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2022	GOOD	Horz=NO Vert=YES	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - MEDIUM	CHISELED SQUARE	USGS

Description: (2011)

Stamping:

IN HASTINGS, 0.45 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS, TO TRUNK HIGHWAY 61 MILEPOINT 117.45, THEN 0.2 MILE EAST ON EAST 4TH STREET, THEN 0.3 MILE NORTH AND EAST ON TYLER STREET, THEN 140.0 FEET EAST ON 1ST STREET, 30.0 FEET SOUTH OF TYLER STREET, 5.0 FEET SOUTH OF 1ST STREET IN A LIGHT POLE BASE. STATION 05331580 USGS GAGE RM 1 IS USED BY THE UNITED STATES GEOLOGICAL SURVEY FOR STREAM GAGE 05331580. PLEASE NOTIFY GREG MITTON THE UNITED STATES GEOLOGICAL SURVEY HYDROLOGIST OR HIS SUCCESSOR WHEN UPDATES ARE MADE TO THIS POINT. STATION 05331580 USGS GAGE RM 1 IS A CHISELED SQUARE ON THE CONCRETE FOOTING OF A LIGHT POLE BASE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	687.279	0.016	209.483	0.005	2/1	2013	00000776

Geoid Separations(ft): GEOID18 = -95.344 12B = -95.348 09 = -95.318 03 = -95.124

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/05331580_GAGE_RM_1-DO1598-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/05331580_GAGE_RM_1-DO1598-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/05331580_GAGE_RM_1-DO1598-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93886.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93886.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 05331580 USGS GAGE RM 2

NGS Name: 05331580 GAGE RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1599](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	17 W	444444.62	925052.75	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2022	GOOD	Horz=YES Vert=YES	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	USGS

Description: (2011)

Stamping:

IN HASTINGS, 0.45 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS, TO TRUNK HIGHWAY 61 MILEPOINT 117.45, THEN 0.2 MILE EAST ON EAST 4TH STREET, THEN 0.3 MILE NORTH AND EAST ON TYLER STREET, THEN 140.0 FEET EAST ON 1ST STREET, 30.0 FEET SOUTH OF TYLER STREET, 25.0 FEET SOUTH OF 1ST STREET IN STORM SEWER LIP. STATION 05331580 USGS GAGE RM 2 IS USED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) FOR STREAM GAGE 05331580. PLEASE NOTIFY GREG MITTON (THE UNITED STATES GEOLOGICAL SURVEY (USGS) HYDROLOGIST) OR HIS SUCCESSOR WHEN UPDATES ARE MADE TO THIS POINT WHICH IS THREE ORANGE FILE MARKS ON THE STREAM WARD SIDE OF THE STORM SEWER LIP. 12.0 FEET LANDWARD AND 10.0 FEET. DOWNSTREAM OF 05331580 USGS GAGE RM 1.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	687.364	0.016	209.509	0.005	2/1	2013	00000776

Geoid Separations(ft): GEOID18 = -95.348 12B = -95.351 09 = -95.321 03 = -95.124

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/05331580_GAGE_RM_2-DO1599-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/05331580_GAGE_RM_2-DO1599-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/05331580_GAGE_RM_2-DO1599-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93888.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93888.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 05331580 USGS GAGE RM 3

NGS Name: 05331580 GAGE RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1597](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	17 W	444443.27	925054.94	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2022	GOOD	Horz=YES Vert=YES	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
HYDRANT	BOLT	USGS

Description: (2011)

Stamping:

IN HASTINGS, 0.45 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS, TO TRUNK HIGHWAY 61 MILEPOINT 117.45, THEN 0.2 MILE EAST ON EAST 4TH STREET, THEN 0.3 MILE NORTH ON TYLER STREET TO THE INTERSECTION WITH 2ND STREET EAST, THEN 370.0 FEET NORTH ON TYLER STREET, THEN 5.0 FEET EAST OF TYLER STREET TO THE TOP NUT OF THE HYDRANT. STATION 05331580 USGS GAGE RM 3 IS USED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) FOR STREAM GAGE 05331580. PLEASE NOTIFY GREG MITTON (THE UNITED STATES GEOLOGICAL SURVEY (USGS) HYDROLOGIST) OR HIS SUCCESSOR WHEN UPDATES ARE MADE TO THIS POINT. STATION 05331580 USGS GAGE RM 3 IS THE TOP NUT OF A FIRE HYDRANT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	697.479	0.016	212.592	0.005	2/1	2013	00000776

Geoid Separations(ft): GEOID18 = -95.341 12B = -95.344 09 = -95.315 03 = -95.118

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93889.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93889.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1 ADPP

NGS Name: 1 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP1304	Get Map
NGS Quad / Sta Num : 44093113/	
USGS Quad: ST PAUL SW	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	3	27 N	23 W	445134.99	930850.60	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1995) **Stamping:** 1 ADP 1950

IN EAGAN, NEAR THE INTERSECTION OF LEXINGTON AVENUE AND TRUNK HIGHWAY 55 IN EAGAN WHICH IS ABOUT 1.0 MILE NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAYS 55 AND 49, 70.5 FEET NORTHEAST OF AND ABOUT 3.0 FEET HIGHER THAN THE CENTERLINE OF TRUNK HIGHWAY 55, 146.5 FEET WEST OF THE CENTER OF LEXINGTON AVENUE, 12.0 FEET NORTH OF A 15.0 INCH DIAMETER BOX ELDER TREE, AND 3.3 FEET SOUTHWEST OF A POWER POLE NUMBER 106, 1.0 FOOT SOUTH-SOUTHWEST OF A STEEL WITNESS POST.

Station Notes

THE STATION WAS DESTROYED PRIOR TO 1995. A RAILROAD SPIKE WAS BURIED ALONGSIDE THE MARK TO MAKE IT MAGNETIC.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	890.674	0.016	271.478	0.005	2/0	1991	00000025
NGVD29	890.487	0.016	271.421	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.921 09 = -89.842 03 = -89.675

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 51 34.98624	93 08 50.59599	543898.147	241427.364	165780.487	73587.208	244.145	2	1999	17648		
NAD83 (1986)	44 51 34.97941	93 08 50.59327	543898.345	241426.672	165780.547	73586.997		2	1986	17289		
NAD27	44 51 35.10519	93 08 49.79920						2	1965	13600		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6854.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6854.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1 ES

NGS Name: 1 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	114 N	19 W	444026.00	930809.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2014	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2011) **Stamping:** 1 ES 1955

2.4 MILES NORTH OF FARMINGTON ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION WITH TRUNK HIGHWAY 50, 59.0 FEET EAST OF THE CENTERLINE OF TRUNK HIGHWAY 3 OPPOSITE A FENCE LINE EAST AND WEST, 4.0 FEET EAST OF A BUICK SALES SIGN.

Station Notes
NEW ROUNDABOUT IN THE AREA

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.100 12B = -92.093 09 = -92.040 03 = -91.824

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73887.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73887.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1 GAF

NGS Name: 1 GAF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3397](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	29	113 N	17 W	443330.72	925237.57	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 3 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: (2014) **Stamping:** 1 GAF 1955 891

3.9 MILES NORTH OF CANNON FALLS, 4.4 MILES NORTH ALONG TRUNK HIGHWAY 20 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 20 MILEPOINT 4.4, 47.5 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 20, 0.05 MILE NORTH OF 270TH STREET, 16.5 FEET SOUTH OF A FIELD ENTRANCE, 13.0 FEET EAST OF A WITNESS POST.

Station Notes
THE MARK IS IN A FIELD AND ON PRIVATE PROPERTY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	891.304	0.016	271.670	0.005	2/1	1995	00000136
NGVD29	891.173	0.016	271.630	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.512 12B = -96.499 09 = -96.430 03 = -96.309

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1_GAF-PP3397-3E-28OCT2014.jpg	E	Oct 28, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1_GAF-PP3397-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1_GAF-PP3397-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6855.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6855.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1 RDS

NGS Name: 1 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL5949](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	8	27 N	22 W	445049.10	930357.71	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1950	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 12 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** 1 RDS 1950

IN INVER GROVE HEIGHTS, 0.3 MILE WEST ON COUNTY ROAD 26 (70TH STREET) FROM THE JUNCTION WITH TRUNK HIGHWAY 52, 31.0 FEET WEST OF COUNTY ROAD 73 (BABCOCK TRAIL), 180.0 FEET NORTH OF COUNTY ROAD 26 EAST (70TH STREET), 84.0 FEET SOUTHWEST OF A CHURCH ENTRANCE, 4.7 FEET NORTHWEST OF A POWER POLE NUMBER 40 WITH A TRANSFORMER, 2.7 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	950.044 0.016	289.574 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -90.741 12B = -90.751 09 = -90.695 03 = -90.499

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 50 49.09818	93 03 57.71252	565010.127	236834.207	172215.431	72187.211	261.921	2012	GPS2800			
NAD83 (2007)	44 50 49.09806	93 03 57.71342	565010.062	236834.195	172215.411	72187.207	261.956	2009	GPS2590			
NAD83 (1996)	44 50 49.09789	93 03 57.71283	565010.104	236834.178	172215.424	72187.202	262.014	2009	HINVR			

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1_RDS-DL5949-3W-31AUG2011.jpg	W	Aug 31, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1_RDS-DL5949-2-31AUG2011.jpg		Aug 31, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1_RDS-DL5949-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6856.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6856.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 10 ADP

NGS Name: 10 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	27 N	23 W	444854.00	931300.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2010)

Stamping: 10 ADP 1950

0.5 MILE SOUTH OF NICOLS, 36.0 FEET EAST OF COUNTY ROAD 4, 491.0 FEET NORTH OF TRUNK HIGHWAY 13, 36.0 FEET SOUTH OF A SAND PIT, 22.0 FEET NORTH OF A FIELD ENTRANCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.636 12B = -89.639 09 = -89.547 03 = -89.386

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6857.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6857.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 10 ES

NGS Name: 10 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093132/
 USGS Quad: NEW MARKET

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	17	112 N	20 W	443027.00	931541.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2023	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 6 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2006) **Stamping:** 10 ES 1955
 4.5 MILES EAST-SOUTHEAST OF WEBSTER, 32.0 FEET EAST OF ISLE AVENUE, 225.0 FEET SOUTH OF 305TH STREET WEST.

Station Notes
 THE DITCHES HAVE BEEN CUT BACK 10-17-2006. SEARCHED THE TIE LOCATION, UNABLE TO FIND ANY EVIDENCE OF THE MARK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.975 12B = -91.995 09 = -91.945 03 = -91.758

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6858.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6858.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 10 R

NGS Name: 10 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	24	27 N	24 W	444906.00	931430.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
DAM	SURVEY DISK	USACE

Description: (1931)

Stamping:

0.75 MILE UPSTREAM FROM THE CEDAR AVENUE BRIDGE, ON THE RIGHT BANK OF THE MINNESOTA RIVER, ON THE DOWNSTREAM SIDE OF A DAM.

Station Notes

ACCORDING TO THE NORTHERN STATES POWER COMPANY SURVEY CREW - THE MARK AND DAM HAVE BEEN GONE FOR OVER TWENTY YEARS (MHD 1973), THE MARK WAS DESTROYED DUE TO THE DAM BEING DESTROYED IN THE 1940'S.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.442 12B = -89.445 09 = -89.344 03 = -89.189

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6859.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6859.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 10 RDS

NGS Name: 10 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	24	28 N	23 W	445357.00	930656.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2013	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2006) **Stamping:** 10 RDS 1950

1.1 MILES SOUTH OF THE SOUTH EDGE OF WEST ST. PAUL, AT THE SOUTHWEST CORNER OF THE SOMERSET GOLF COURSE, 28.0 FEET EAST OF DODD ROAD, 525.0 FEET NORTH OF A CROSSROADS, 400.0 FEET NORTH OF NUMBER 10 HOLE ON THE GOLF COURSE.

Station Notes

DODD ROAD HAS BEEN WIDENED AND CUT BACK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.957 12B = -89.957 09 = -89.901 03 = -89.724

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6860.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6860.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 11 ADP

NGS Name: 11 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	27 N	24 W	444706.00	931452.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2011)

Stamping: 11 ADP 1950

IN BURNSVILLE, 813.00 FEET SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 13 AND COUNTY ROAD 11, 21.0 FEET EAST OF COUNTY ROAD 11, 53.0 FEET SOUTH OF A FARM ENTRANCE, 24.0 FEET NORTH OF A FENCE EAST, 34.0 FEET SOUTH OF A FENCE CORNER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.554 12B = -89.557 09 = -89.495 03 = -89.304

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6861.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6861.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 12 ADP

NGS Name: 12 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	115 N	20 W	444518.00	931454.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1973)

Stamping: 12 ADP 1950

5.0 MILES SOUTH-SOUTHWEST OF NICOLS, 425.0 FEET NORTH OF ALIMAGNET LAKE, 20.0 FEET WEST OF COUNTY ROAD, 305.0 FEET NORTH OF A FARM ENTRANCE AT A CURVE IN A COUNTY ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.773 12B = -89.770 09 = -89.721 03 = -89.524

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6862.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6862.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 13

NGS Name: 13

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP1287	Get Map
NGS Quad / Sta Num : 44093114/	
USGS Quad: ST PAUL WEST	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445307.10	931014.04	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	GOOD	Horz=NO Vert=YES	YES	4190		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	CHISELED CROSS	MNDT

Description: (2006)

Stamping:

IN MENDOTA, IN THE SOUTH BOLT OF THE EAST LEG OF A HIGH TENSION TOWER, 800.0 FEET NORTH OF THE EAST END OF A TRUNK HIGHWAY 55 MENDOTA BRIDGE NUMBER 4190 OVER THE MINNESOTA RIVER. THE BOLT IS MAGNETIC.

Station Notes

THE SET DATE IS UNKNOWN. THE REFERENCE POSITION WAS TAKEN 60.0 FEET SOUTHEAST OF THE STATION BY USING THE REAL TIME REFERENCE NETWORK (RTRN).

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	798.456	0.016	243.370	0.005	2/0	1991	00000025
NGVD29	798.260	0.016	243.310	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.649 12B = -89.649 09 = -89.563 03 = -89.413

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13-PP1287-3NW-01AUG2023.jpg	NW	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13-PP1287-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13-PP1287-1-21NOV2006.jpg		Nov 21, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52037.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52037.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 13 1

NGS Name: 13 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1245](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	35	27 N	24 W	444713.71	931452.55	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2011	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED CROSS	MNDT

Description: (2006)

Stamping:

IN BURNSVILLE, 2.2 MILES EAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35-W IN BURNSVILLE, 60.0 FEET SOUTH OF TRUNK HIGHWAY 13, 28.0 FEET EAST OF COUNTY ROAD 11, ON THE CENTER ONE OF 3 BOLTS AT THE NORTHEAST CORNER OF A HIGH TENSION POLE (GREY) CONCRETE BASE. THE SET DATE IS UNKNOWN, BOLTS MAKE THE STATION MAGNETIC. CONCRETE FOOTING HAS BEEN MOVED, SAME BOLTS HAVE BEEN USED IN THE RESET. ELEVATION FROM 1971 TO 2012 IS DIFFERENT BY 25.4 INCHES.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	912.190	0.016	278.036	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -89.541 12B = -89.544 09 = -89.478 03 = -89.291

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_1-PP1245-3E-09OCT2011.jpg	E	Oct 9, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_1-PP1245-2-09OCT2011.jpg		Oct 9, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_1-PP1245-1-09OCT2011.jpg		Oct 9, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52038.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52038.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 13 1 RESET

NGS Name: 13 1 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4919](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	27 N	24 W	444713.55	931452.47	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=NO Vert=YES	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED CROSS	MNDT

Description: (2011)

Stamping:

IN BURNSVILLE, 2.2 MILES EAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W IN BURNSVILLE, 60.0 FEET SOUTH OF TRUNK HIGHWAY 13, 28.0 FEET EAST OF COUNTY ROAD 11, ON THE CENTER ONE OF 3 BOLTS AT THE NORTHEAST CORNER OF A HIGH TENSION POLE (GREY) CONCRETE BASE. THE SET DATE IS UNKNOWN, THE BOLTS MAKE STATION 13 1 RESET MAGNETIC.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	914.312	0.016	278.683	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.541 12B = -89.544 09 = -89.478 03 = -89.291

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_1_RESET-DO4919-3W-20JUL2023.jpg	W	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_1_RESET-DO4919-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_1_RESET-DO4919-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95519.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95519.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 13 2

NGS Name: 13 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1247](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	27 N	24 W	444756.67	931406.28	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2023	GOOD	Horz=NO Vert=YES	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
HYDRANT	SEE DESCRIPTION	MNDT

Description: (2007)

Stamping:

IN BURNSVILLE, 3.1 MILES EAST AND NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35-W IN BURNSVILLE, 1.0 MILE EAST OF COUNTY ROAD 11, 1.15 MILES SOUTHWEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 30 AND TRUNK HIGHWAY 36 (CEDAR AVENUE) IN EAGAN TOWNSHIP, 165.0 FEET NORTHWEST OF TRUNK HIGHWAY 13, 15.0 FEET EAST OF GALTIER DRIVE, 15.0 FEET NORTH OF THE BRICK GATES TO RIVER HILLS ESTATES. THE HYDRANT IS MAGNETIC.

Station Notes

ON THE TOP NUT (VALVE) OF A FIRE HYDRANT. THE SET DATE IS UNKNOWN.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	900.920	0.016	274.601	0.005	2/0	1991	00000025
NGVD29	900.713	0.016	274.538	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.570 12B = -89.573 09 = -89.501 03 = -89.324

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_2-PP1247-3NE-20JUL2023.jpg	NE	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_2-PP1247-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_2-PP1247-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52039.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52039.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 13 ADP

NGS Name: 13 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	115 N	20 W	444355.00	931355.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	1956	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2011) **Stamping:** 13 ADP 1950

IN APPLE VALLEY, 0.7 MILE WEST ALONG WEST COUNTY ROAD 42 FROM THE JUNCTION OF WEST COUNTY ROAD 42 AND COUNTY ROAD 23, 199.0 FEET EAST OF A TEE-ROAD NORTH, 33.0 FEET SOUTH OF THE CENTER OF COUNTY HIGHWAY 42, 4.0 FEET EAST OF A TELEPHONE POLE.

Station Notes

REPORTED DESTROYED 10/56. THE ROAD HAS BEEN WIDENED, ASSUMED DESTROYED DURING CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.180 12B = -90.180 09 = -90.121 03 = -89.918

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73885.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73885.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 13 ES
County: DAKOTA, MN (Sheet 1)

NGS Name: 13 ES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	113 N	20 W	443658.21	931547.13		

NGS ACRN:	Get Map
NGS Quad / Sta Num :	44093132/
USGS Quad:	NEW MARKET

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2009	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2006) **Stamping:** 1955 13 ES TT

2.5 MILES SOUTH-SOUTHWEST OF LAKEVILLE, 55.0 FEET EAST OF COUNTY ROAD 9, 24.0 FEET EAST OF A POWER POLE, 14.0 FEET EAST OF A TEE-FENCE CORNER, 14.0 FEET EAST OF A WITNESS POST, 1.0 FOOT SOUTH OF AN EAST-WEST FENCE LINE.

Station Notes

REPORTED DESTROYED BY DAKOTA COUNTY SURVEYOR'S OFFICE 10-30-2009. THE DISK WAS RETURNED TO MNDOT. CONFIRMED DESTROYED AND WITNESS POST REMOVED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.030 12B = -91.033 09 = -90.981 03 = -90.771

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_ES-3N-03DEC2009.jpg	N	Dec 3, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_ES-2-26OCT2009.jpg		Oct 26, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_ES-1-17OCT2006.jpg		Oct 17, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6863.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6863.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1311 H

NGS Name: 1311 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4357](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	18	27 N	23 W	444920.49	931329.96	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1975	2023	POOR	Horz=NO Vert=NO	YES		PROJECTS 10 IN.	MARKER IS STEEL ROD

Monument Type	Disk Type	Mon. Agency
COPPER CLAD ROD (NO SLEEVE) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) Stamping: 1311 H 1975

IN EAGAN, 0.3 MILE SOUTH OF THE MINNESOTA RIVER, AT TRUNK HIGHWAY 77 MILEPOINT 6.0, 53.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 77, 118.2 FEET NORTH OF LIGHT STANDARD NUMBER T2F AR4, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: RADEC - DAKOTA, MN

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	728.844	0.016	222.152	0.005	2/1	2020	00000955
NGVD29	728.758	0.016	222.126	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.544 12B = -89.547 09 = -89.445 03 = -89.294

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 49 20.48553	93 13 29.96413	523789.335	227772.836	159651.309	69425.299	194.850			2018	GPS3290	
NAD83 (1996)	44 49 20.48540	93 13 29.96453	523789.307	227772.823	159651.300	69425.295	194.920	C		2018	HTH77	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1311_H-AH4357-3E-20NOV2006.jpg	E	Nov 20, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1311_H-AH4357-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1311_H-AH4357-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6864.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6864.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 14 ADP

NGS Name: 14 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	115 N	20 W	444441.00	931227.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2017	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2011) **Stamping:** 14 ADP 1950

4.0 MILES WEST OF ROSEMOUNT ALONG COUNTY HIGHWAY 16, 650.0 FEET SOUTH OF A CURVE EAST OF COUNTY HIGHWAY 16, 251.0 FEET NORTH OF A FARM ENTRANCE WEST, 24.0 FEET WEST OF THE CENTERLINE OF COUNTY HIGHWAY 16, 1.0 FOOT EAST OF A FENCE LINE, ON THE TOP OF A HILL.

Station Notes

REPORTED DESTROYED 10/56. UNABLE TO FIND WITH GIVEN INFORMATION. THE LANDOWNER STATES THAT THE COUNTY ROAD HAS BEEN REALIGNED IN THE AREA.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.298 12B = -90.302 09 = -90.239 03 = -90.033

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73886.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73886.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 14 ES
County: DAKOTA, MN (Sheet 1)

NGS Name: 14 ES

NGS ACRN: [PP3340](#) [Get Map](#)
NGS Quad / Sta Num : 44093124/
USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	29	114 N	20 W	443856.00	931439.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	USGS

Description: (2010) **Stamping:** 14 ES 1955

IN LAKEVILLE, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF 208TH STREET AND HOWLAND AVENUE WEST, IN THE SOUTHWEST CORNER OF THE CONCRETE BASE OF THE CITY WATER TANK.

Station Notes

AN APARTMENT BUILDING IS NOW IN PLACE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	973.771	0.016	296.806	0.005	2/1	1995	00000136
NGVD29	973.623	0.016	296.761	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.951 12B = -90.958 09 = -90.902 03 = -90.682

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6865.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6865.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 14 R

NGS Name: 14 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	27 N	24 W	444742.00	931806.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	SEE DESCRIPTION	USACE

Description: (1931)

Stamping:

0.75 MILE ABOVE THE LYNDALE AVENUE BRIDGE, 15.0 FEET NORTH OF A ROAD, 10.0 FEET FROM THE RIGHT BANK OF THE MINNESOTA RIVER.

Station Notes

UNABLE TO FIND WITH GIVEN INFORMATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.127 12B = -89.130 09 = -89.045 03 = -88.868

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6866.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6866.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 15 ADP

NGS Name: 15 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	24	115 N	20 W	444447.72	931021.81		3	1950	2023	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** 15 ADP 1950

IN APPLE VALLEY, 0.2 MILE EAST OF THE JUNCTION OF JOHNNY CAKE RIDGE ROAD AND 140TH STREET, 60.0 FEET NORTH OF 140TH STREET, 108.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A FARMHOUSE, 24.0 FEET NORTH OF A SIDEWALK, 17.5 FEET EAST OF A DRIVEWAY, 11.0 FEET SOUTH OF 32.0 INCH DIAMETER OAK TREE, 0.4 FOOT SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.659 12B = -90.666 09 = -90.594 03 = -90.387

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/15_ADP-3N-13JUL2023.jpg	N	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/15_ADP-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/15_ADP-1-28SEP2011.jpg		Sep 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6867.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6867.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 15 ES
County: DAKOTA, MN (Sheet 1)

NGS Name: 15 ES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	114 N	20 W	444054.00	931530.00		

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1957) **Stamping:** 15 ES 1955
 2.0 MILES SOUTH AND 0.5 MILE WEST OF LAKEVILLE, 33.0 FEET SOUTH OF THE CENTER OF A TEE-ROAD NORTH (IPA VA AVENUE), 12.0 FEET WEST OF A FENCE CORNER, 2.0 FEET SOUTH OF A SOUTH RIGHT-OF-WAY FENCE.

Station Notes
 THE TIES FALL OVER A CULVERT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.397 12B = -90.403 09 = -90.348 03 = -90.141

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6868.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6868.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 15 L

NGS Name: 15 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>			
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	28	27 N	24 W	444734.00	931754.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	SEE DESCRIPTION	USACE

Description: (1931)

Stamping:

ON THE LEFT BANK OF THE MINNESOTA RIVER, AT RIVER MILEPOINT 11.50, ON A FENCE LINE.

Station Notes

THE FENCE WAS GONE. UNABLE TO FIND WITH GIVEN INFORMATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.163 12B = -89.163 09 = -89.081 03 = -88.901

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6869.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6869.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 16 ADP

NGS Name: 16 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	29	115 N	19 W	444420.00	930806.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2010)

Stamping: 16 ADP 1950

IN THE WEST EDGE OF ROSEMOUNT, IN A GRASS TRIANGLE AT THE JUNCTION OF DODD BOULEVARD AND COUNTY ROAD 33 (145TH STREET WEST) AND COUNTY ROAD 39 (CHIPPENDALE AVENUE), 29.5 FEET SOUTH OF A 145TH STREET MANHOLE COVER, 62.0 FEET EAST OF A CHIPPENDALE AVENUE MANHOLE COVER, 2.0 FEET EAST OF A STOP AND STREET SIGN, 110.0 FEET WEST OF THE JUNCTION OF DODD BOULEVARD AND 145TH STREET, 23.0 FEET SOUTH OF COUNTY ROAD 33, 3.0 FEET WEST OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes

THE TIES FALL IN A DRIVING LANE OF 145TH STREET. UNABLE TO FIND WITH GIVEN INFORMATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.194 12B = -91.194 09 = -91.132 03 = -90.925

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6870.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6870.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 16 ES

NGS Name: 16 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	115 N	20 W	444320.77	931508.92		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2011) **Stamping:** 16 ES 1955 TT

5.0 MILES NORTH AND 0.5 MILE WEST OF LAKEVILLE, IN THE NORTHEAST CORNER OF CRYSTAL LAKE, 38.0 FEET NORTH AND 61.0 FEET EAST OF THE CENTER OF A ROAD (LAC LAVEN ROAD) AT A PRIVATE ROAD EAST AT A TURN IN A ROAD SOUTHWEST, 2.0 FEET SOUTHWEST OF A CORNER FENCE POST.

Station Notes

PRIVATE ROAD REMOVED, FOUND OLD WITNESS POST, TOOK MEASUREMENT SEARCHED AREA UNABLE TO FIND, DENSE BRUSH COVER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.059 12B = -90.059 09 = -89.997 03 = -89.796

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73888.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73888.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 A

NGS Name: 1901 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1241](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	27 N	24 W	444637.00	931640.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2009) **Stamping:** 1901 A 1971

IN BURNSVILLE, ALONG THE JUNCTION OF TRUNK HIGHWAY 13 AND NICOLLET AVENUE, IN SOUTHEAST, IN A FIELD.

Station Notes

UNABLE TO FIND WITH GIVEN INFORMATION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	857.938	0.016	261.500	0.005	2/0	1991	00000025
NGVD29	857.725	0.016	261.435	0.005	2	1972	L121 MINN

Geoid Separations(ft): GEOID18 = -89.376 12B = -89.376 09 = -89.321 03 = -89.127

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6871.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6871.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 AB

NGS Name: 1901 AB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1310](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	28 N	23 W	445235.10	931027.02	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2023	DESTROYED	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	VERTICAL CONTROL DISK	MNDT

Description: (2007) **Stamping:** 1901 AB 1977

IN MENDOTA HEIGHTS, 0.07 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 13 AND SIBLEY MEMORIAL HIGHWAY, 1.0 MILE NORTH OF INTERSTATE HIGHWAY 494, 96.5 FEET WEST OF SIBLEY MEMORIAL HIGHWAY, 74.3 FEET WEST-NORTHWEST OF A CULVERT, IN THE SOUTHWEST CORNER OF THE SOUTHWEST LEG OF A POWER LINE TOWER. NEW POWER POLES AND FOOTINGS.

Station Notes

NEW POWER POLES AND FOOTINGS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	807.767	0.016	246.208	0.005	2/1	2020	00000955
NGVD29	807.557	0.016	246.144	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.659 12B = -89.655 09 = -89.567 03 = -89.422

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_AB-PP1310-3W-01AUG2023.jpg	W	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_AB-PP1310-2-06OCT2011.jpg		Oct 6, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_AB-PP1310-1-06OCT2011.jpg		Oct 6, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6872.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6872.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 B

NGS Name: 1901 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1242](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	27 N	24 W	444651.00	931613.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (1971)

Stamping: 1901 B 1971

IN BURNSVILLE, 0.8 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 25.0 FEET SOUTH OF TRUNK HIGHWAY 13 OPPOSITE PLEASANT VIEW GARDENS, 110.0 FEET EAST OF A DRIVE SOUTH, IN THE CENTER OF THE SOUTH END OF A CATTLE PASS.

Station Notes

TRUNK HIGHWAY 13 HAS BEEN REBUILT AND CATTLE PASS/BOX CULVERT IS GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	859.217	0.016	261.890	0.005	2/0	1991	00000025
NGVD29	859.004	0.016	261.825	0.005	2	1972	L121 MINN

Geoid Separations(ft): GEOID18 = -89.396 12B = -89.393 09 = -89.337 03 = -89.144

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6873.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6873.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 C

NGS Name: 1901 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1243](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	27 N	24 W	444700.00	931535.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (1971) **Stamping:** 1901 C 1971

IN BURNSVILLE, 1.5 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 70.0 FEET NORTH OF TRUNK HIGHWAY 13, 475.0 FEET WEST OF 12TH AVENUE SOUTH, IN THE NORTH CONCRETE HEADWALL OF A 24.0 INCH DIAMETER CULVERT UNDER TRUNK HIGHWAY 13.

Station Notes

TRUNK HIGHWAY 13 HAS BEEN RE-BUILT AND CULVERT IS GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	920.815	0.016	280.665	0.005	2/0	1991	00000025
NGVD29	920.599	0.016	280.599	0.005	2	1972	L121 MINN

Geoid Separations(ft): GEOID18 = -89.475 12B = -89.475 09 = -89.416 03 = -89.226

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6874.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6874.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 D

NGS Name: 1901 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1244](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	27 N	24 W	444706.00	931453.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1971) **Stamping:** 1901 D 1971

IN BURNSVILLE, 2.0 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 142.0 FEET NORTH OF TRUNK HIGHWAY 13, 0.15 MILE WEST OF COUNTY ROAD 11, 13.0 FEET SOUTHEAST OF A POWER POLE.

Station Notes

THE TIES DO NOT FIT, TIES CALL FOR MARK TO BE NORTH OF TRUNK HIGHWAY 13 YET LATITUDE AND LONGITUDE PUTS MARK SOUTH OF TRUNK HIGHWAY 13, CONSIDERED DESTROYED WHEN TRUNK HIGHWAY 13 WAS REBUILT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	911.471	0.016	277.817	0.005	2/0	1991	00000025
NGVD29	911.251	0.016	277.750	0.005	2	1972	L121 MINN

Geoid Separations(ft): GEOID18 = -89.554 12B = -89.554 09 = -89.491 03 = -89.301

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6875.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6875.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 E

NGS Name: 1901 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1246](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	25	27 N	24 W	444736.00	931422.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2023	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1901E 1971

IN BURNSVILLE, 2.7 MILES NORTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 0.6 MILE NORTHEAST OF COUNTY ROAD 11, 66.0 FEET SOUTHEAST OF TRUNK HIGHWAY 13.

Station Notes

TRUNK HIGHWAY 13 HAS BEEN WIDENED, THE TIES FALL IN A DITCH ALONG NORTH BOUND TRUNK HIGHWAY 13.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	903.610	0.016	275.421	0.005	2/0	1991	00000025
NGVD29	903.397	0.016	275.356	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.570 12B = -89.570 09 = -89.504 03 = -89.321

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6876.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6876.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 F

NGS Name: 1901 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1248](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	25	27 N	24 W	444807.81	931351.20	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1901 F 1971

IN BURNSVILLE, 1.0 MILE SOUTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 36 AND TRUNK HIGHWAY 13, 149.0 FEET NORTHEAST OF RIVER HILLS DRIVE, 64.0 FEET SOUTHEAST OF TRUNK HIGHWAY 13, 40.0 FEET NORTHEAST OF A POWER POLE.

Station Notes

THE MONUMENT WAS FOUND DESTROYED IN 1980.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	888.942	0.016	270.950	0.005	2/0	1991	00000025
NGVD29	888.742	0.016	270.889	0.005	2	1973	L22832

Geoid Separations(ft): GEOID18 = -89.590 12B = -89.590 09 = -89.514 03 = -89.340

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 48 07.81322	93 13 51.19637	522266.647	220410.934	159187.192	67181.387	243.726	3	1999	17648				
NAD83 (1986)	44 48 07.80734	93 13 51.19509	522266.740	220410.338	159187.221	67181.206		3	1986	17289				
NAD27	44 48 07.93325	93 13 50.39454						3	1979	15198				

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6877.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 G

NGS Name: 1901 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1249](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	19	27 N	23 W	444825.00	931334.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2023	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1901-G 1971

IN EAGAN, 3.7 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 0.6 MILE
 SOUTHWEST OF TRUNK HIGHWAY 77 (CEDAR AVENUE), 0.2 MILE NORTHEAST OF COUNTY ROAD 8, 147.0 FEET
 NORTHWEST OF TRUNK HIGHWAY 13, 114.0 FEET NORTHEAST OF A POWER POLE, 29.6 FEET SOUTHWEST OF A POWER
 POLE.

Station Notes

TRUNK HIGHWAY 13 HAS BEEN RE-BUILT, THE TIES FALL IN A CONSTRUCTION AREA CONSIDERED DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.331	0.016	271.983	0.005	2/0	1991	00000025
NGVD29	892.131	0.016	271.922	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.603 12B = -89.603 09 = -89.521 03 = -89.353

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6878.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6878.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 H

NGS Name: 1901 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1250](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NW	19	27 N	23 W	444846.88	931305.60	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1971	2010	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1901 H 1971

IN EAGAN TOWNSHIP, 4.3 MILES EAST AND NORTH OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 2.5 MILES SOUTH AND EAST OF A TRUNK HIGHWAY 36 BRIDGE OVER THE MINNESOTA RIVER, 66.5 FEET SOUTHEAST OF EASTBOUND TRUNK HIGHWAY 13, 88.5 FEET WEST OF NICOLS ROAD, 63.7 FEET SOUTHWEST OF A POWER POLE.

Station Notes

3-03-2010 POSITION IS IN TRANSIT STATION ENTRANCE CONSTRUCTION. GRADED OUT.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	808.837	0.016	246.534	0.005	2/0	1991	00000025
NGVD29	808.640	0.016	246.474	0.005	2	1972	L121 MINN

Geoid Separations(ft): GEOID18 = -89.636 12B = -89.636 09 = -89.547 03 = -89.386

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (1996)	44 48 46.87763	93 13 05.59910	525549.707	224371.083	160187.871	68388.443	219.297	3	1999	17648		
NAD83 (1986)	44 48 46.87154	93 13 05.59757	525549.818	224370.466	160187.905	68388.255		3	1986	17289		
NAD27	44 48 46.99715	93 13 04.79760						3	1979	15198		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6879.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6879.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 I

NGS Name: 1901 I

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1363](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	27 N	24 W	444637.88	931921.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1901 I 1971

IN BURNSVILLE, AT TRUNK HIGHWAY 13 MILEPOINT 95.7, 1.75 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 118.0 FEET NORTH OF TRUNK HIGHWAY 13, 118.0 FEET EAST OF BEARD AVENUE, 53.0 FEET NORTH OF THE NORTH FRONTAGE ROAD, 98.0 FEET EAST OF A POWER POLE, 3.2 FEET SOUTHWEST OF A WITNESS POST.

Station Notes

THIRD ORDER LEVELS RUN BY BARR ENGINEERING IN 1994 INDICATE MISFIT OF 0.25 FOOT WITH BENCHMARK 1901 J.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	728.676	0.016	222.101	0.005	2/1	2019	00000938
NGVD29	728.457	0.016	222.034	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.065 12B = -89.068 09 = -88.986 03 = -88.802

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_I-PP1363-3N-12JUL2023.jpg	N	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_I-PP1363-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_I-PP1363-1-02OCT2011.jpg		Oct 2, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6880.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6880.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 J

NGS Name: 1901 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1364](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	14	115 N	21 W	444630.00	931847.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1994) **Stamping:** 1901 J 1971

IN BURNSVILLE, AT TRUNK HIGHWAY 13 MILEPOINT 96.25, 1.25 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, 0.15 MILE WEST OF A POWER LINE CROSSING, 115.0 FEET NORTH OF TRUNK HIGHWAY 13, 50.0 FEET NORTH OF THE NORTH FRONTAGE ROAD, 400.0 FEET SOUTHWEST OF HARDWARE OFFICES, 21.0 FEET NORTHEAST OF A LIGHT POLE, 1.0 FOOT WEST OF A POWER PAD, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

3RD ORDER LEVELS RUN BY BARR ENGINEERING IN 1994 INDICATE MISFIT OF 0.25 FOOT WITH BENCHMARK 1901 I. IN 1994 A POWER PAD WAS FOUND TO HAVE BEEN CONSTRUCTED 1.0 FOOT FROM CONCRETE MONUMENT AND COULD EXPLAIN THE 0.25 FOOT MISFIT. IN 2006 RECOVERED WITNESS POST AND CONCRETE PAD WITH UTILITY BOX AND ALSO A 2.0 FEET DEEP HOLE WHERE THE MARK SHOULD HAVE BEEN, DUG ANOTHER 1.0 FOOT AND NOTHING. BELIEVED TO BE DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	730.628	0.016	222.696	0.005	2/0	1997	00000231
NGVD29	730.202	0.016	222.566	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.140 12B = -89.140 09 = -89.065 03 = -88.881

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6881.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6881.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 K

NGS Name: 1901 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1365](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	14	115 N	21 W	444623.00	931806.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1994) **Stamping:** 1901 K 1971

0.65 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W IN BURNSVILLE, 0.2 MILE EAST OF COUNTY ROAD 34-COUNTY ROAD 5, 78.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 13, 3.0 FEET SOUTHWEST OF A POWER POLE, AT THE SOUTHWEST CORNER OF A CAR LOT, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	788.473	0.016	240.327	0.005	2/0	1991	00000025
NGVD29	788.263	0.016	240.263	0.005	2	1972	L138 MINN

Geoid Separations(ft): GEOID18 = -89.229 12B = -89.229 09 = -89.157 03 = -88.970

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6882.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6882.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 L

NGS Name: 1901 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4640](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	27 N	23 W	444912.69	931231.62	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1901 L 2010

IN EAGAN, 0.7 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77, AT TRUNK HIGHWAY 13 MILEPOINT 102.65, 49.6 FEET NORTHWEST OF TRUNK HIGHWAY 13, 47.9 FEET NORTHEAST OF THE WESTBOUND SILVER BELL ROAD, 1.5 FEET NORTHWEST OF THE NORTHEAST SIGNAL BASE. THE DISK WAS SET IN A DRILL HOLE IN A CONCRETE FOOTING.

Station Notes

NO GOOD FOR GPS BECAUSE OF SIGNAL LIGHT BASE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	785.238	0.016	239.341	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.668 12B = -89.668 09 = -89.580 03 = -89.422

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_L-DO4640-3SE-20JUL2023.jpg	SE	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_L-DO4640-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_L-DO4640-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_89577.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_89577.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 M

NGS Name: 1901 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4638](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	17	27 N	23 W	444936.60	931202.80	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1901 M 2010

IN EAGAN, 1.45 MILES NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77, AT TRUNK HIGHWAY 13 MILEPOINT 103.35, THEN 0.1 MILE NORTHEAST ON BLACKHAWK ROAD, THEN 0.1 MILE SOUTH ON AN ENTRANCE TO THE MINNESOTA VALLEY TRANSIT AUTHORITY BUS GARAGE -EAGAN, 76.4 FEET NORTH-NORTHWEST OF DOOR NUMBER E1, 73.9 FEET NORTH-NORTHEAST OF THE NORTHWEST CORNER OF DOOR NUMBER E2, 0.5 FOOT NORTH OF A LIGHT POLE. THE DISK WAS SET IN A DRILL HOLE IN A CONCRETE FOOTING. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	785.799	0.016	239.512	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.695 12B = -89.695 09 = -89.606 03 = -89.449

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_M-DO4638-3N-10MAR2010.jpg	N	Mar 10, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_M-DO4638-2-10MAR2010.jpg		Mar 10, 2010
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_M-DO4638-1-10MAR2010.jpg		Mar 10, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_89578.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_89578.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 N

NGS Name: 1901 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4639](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	27 N	23 W	444937.30	931203.90	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2010	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1901 N 2010

IN EAGAN, 1.45 MILES NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77, AT TRUNK HIGHWAY 13 MILEPOINT 103.35, THEN 0.1 MILE NORTHEAST ON BLACKHAWK ROAD, THEN 0.1 MILE SOUTH ON THE ENTRANCE TO THE MINNESOTA VALLEY TRANSIT AUTHORITY BUS GARAGE -EAGAN, 72.0 FEET NORTH-NORTHWEST OF DOOR NUMBER E10, 74.1 FEET NORTH-NORTHWEST OF THE NORTHEAST CORNER OF DOOR NUMBER E9, 0.8 FOOT SOUTH OF A LIGHT POLE. THE DISK WAS SET IN A DRILL HOLE IN A CONCRETE FOOTING. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	786.078	0.016	239.597	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.695 12B = -89.691 09 = -89.600 03 = -89.449

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_N-DO4639-3N-10MAR2010.jpg	N	Mar 10, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_N-DO4639-2-10MAR2010.jpg		Mar 10, 2010
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_N-DO4639-1-10MAR2010.jpg		Mar 10, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_89579.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_89579.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1901 P

NGS Name: 1901 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6869](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	14	115 N	20 W	444626.94	931832.05	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2013	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2013) **Stamping:** 1901 P 2013

IN BURNSVILLE, 1.05 MILES WEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W IN BURNSVILLE, AT TRUNK HIGHWAY 13 MILEPOINT 94.3, 101.2 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 13 FOG LINE, 32.0 FEET SOUTH OF THE NORTH FRONTAGE ROAD, 89.5 FEET WEST OF OLIVER AVENUE EXTENDED, 3.9 FEET WEST OF NORTHWEST CORNER OF UTILITY BOX, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	741.967	0.016	226.152	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -89.170 12B = -89.170 09 = -89.098 03 = -88.911

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_P-DP6869-3S-12JUL2023.jpg	S	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_P-DP6869-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1901_P-DP6869-1-12JUL2023.jpg		Jul 12, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_100882.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_100882.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1903 A

NGS Name: 1903 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3398](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	28	113 N	17 W	443419.00	925223.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2009) **Stamping:** 1903 A 1988

2.15 MILES SOUTH-SOUTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 61 (THE JUNCTIONS 1.1 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 20 MILEPOINT 5.3, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 20 AND 260TH STREET, 68.0 FEET EAST OF TRUNK HIGHWAY 20, 31.0 FEET SOUTH OF 260TH STREET, 4.0 FEET NORTH OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	874.650	0.016	266.594	0.005	2/1	1995	00000136
NGVD29	874.513	0.016	266.552	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.516 12B = -96.502 09 = -96.434 03 = -96.306

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6883.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6883.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1903 B

NGS Name: 1903 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3399](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	21	113 N	17 W	443445.96	925214.52	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1903 B 1988

3.4 MILES SOUTHWEST OF MIESVILLE, 1.65 MILES SOUTHWEST ALONG TRUNK HIGHWAY 20 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 20 MILEPOINT 5.8, 88.0 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 20, 45.8 FEET WEST OF A POWER POLE WITH AN ANCHOR, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	881.173	0.016	268.582	0.005	2/1	2016	00000879
NGVD29	881.035	0.016	268.540	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.506 12B = -96.496 09 = -96.427 03 = -96.296

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 34 45.95875	92 52 14.51952	616209.238	139507.524	187820.951	42521.978	239.174			2016	GPS3148	
NAD83 (1996)	44 34 45.95873	92 52 14.52000	616209.203	139507.522	187820.941	42521.978	239.231	C		2016	HTRIER	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_B-PP3399-3NW-29SEP2022.jpg	NW	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_B-PP3399-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_B-PP3399-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6884.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6884.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1903 C

NGS Name: 1903 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3400](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	113 N	17 W	443527.81	925149.16	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1903 C 1988

2.5 MILES WEST OF MIESVILLE, 0.75 MILE SOUTH-SOUTHWEST ALONG TRUNK HIGHWAY 20 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 20 MILEPOINT 6.7, 104.6 FEET SOUTH-SOUTHWEST OF A FIELD ENTRANCE, 49.0 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 20, 4.5 FEET EAST-NORTHEAST OF A POWER POLE WITH AN ANCHOR, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	933.791	0.016	284.620	0.005	2/1	2016	00000879
NGVD29	933.646	0.016	284.576	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.535 12B = -96.525 09 = -96.456 03 = -96.322

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_C-PP3400-3SE-29SEP2022.jpg	SE	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_C-PP3400-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_C-PP3400-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6885.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6885.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1903 D

NGS Name: 1903 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1066](#) [Get Map](#)
NGS Quad / Sta Num : 44092432/
USGS Quad: MIESVILLE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	29	113 N	17 W	443411.38	925228.67	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1903 D 2014

3.7 MILES SOUTHWEST OF MIESVILLE, 2.35 MILES SOUTHWEST ALONG TRUNK HIGHWAY 20 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 20 MILEPOINT 5.15, 41.2 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 20, 56.6 FEET SOUTH-SOUTHWEST OF A DRIVEWAY, 1.5 FEET NORTH-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	878.049	0.016	267.630	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.502 12B = -96.489 09 = -96.420 03 = -96.292

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions			County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude		X	Y	X	Y			Year	Reference
NAD83 (2011)	44 34 11.38499	92 52 28.66885		615204.087	136000.507	187514.581	41453.038	238.226		2016	GPS3148
NAD83 (1996)	44 34 11.38496	92 52 28.66933		615204.052	136000.504	187514.570	41453.037	238.283	C	2016	HTRIER

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_D-DQ1066-3W-29SEP2022.jpg	W	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_D-DQ1066-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1903_D-DQ1066-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102877.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102877.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 A

NGS Name: 1904 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3341](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	113 N	19 W	443750.08	930754.18	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1904 A 1985

IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 10.95, 0.25 MILE EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, IN FARMINGTON, 29.5 FEET SOUTH OF TRUNK HIGHWAY 50, 67.0 FEET NORTHWEST OF A FLAGPOLE, 5.0 FEET WEST A POWER POLE WITH TWO ANCHORS, 0.6 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	901.005	0.016	274.627	0.005	2/1	2016	00000879
NGVD29	900.868	0.016	274.585	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.611 12B = -92.618 09 = -92.565 03 = -92.352

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_A-PP3341-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_A-PP3341-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_A-PP3341-1-22AUG2011.jpg		Aug 22, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6886.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6886.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 AA

NGS Name: 1904 AA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DQ1040	Get Map
NGS Quad / Sta Num : 44093121/	
USGS Quad: COATES	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	33	114 N	19 W	443750.48	930657.41	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1904 AA 2015

IN FARMINGTON, 1.0 MILE EAST OF FARMINGTON, 1.0 MILE EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 11.75, 37.3 FEET NORTH OF TRUNK HIGHWAY 50, 39.2 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	891.294	0.016	271.667	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.811 12B = -92.815 09 = -92.759 03 = -92.552

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 37 50.47663	93 06 57.40959	552257.293	157940.982	168328.360	48140.508	243.372			2016	GPS3148	
NAD83 (1996)	44 37 50.47662	93 06 57.41007	552257.259	157940.981	168328.349	48140.507	243.432	C		2016	HTRIER	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_AA-DQ1040-3N-28OCT2022.jpg	N	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_AA-DQ1040-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_AA-DQ1040-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103094.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103094.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 B

NGS Name: 1904 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3342](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	5	113 N	19 W	443749.90	930717.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 8 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1904 B 1985

IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 11.5, 0.8 MILE EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, 30.0 FEET SOUTH OF TRUNK HIGHWAY 50, 175.0 FEET EAST OF AN ENTRANCE TO A GOLF COURSE BUT STILL STABLE, 4.6 FEET WEST-NORTHWEST OF A POWER POLE, 14.2 FEET NORTH-NORTHWEST OF AN ELECTRICAL BOX, 0.6 FOOT NORTH OF A WITNESS POST.

Station Notes

THE MARK IS LEANING SLIGHTLY SOUTH, THE CONCRETE IS BREAKING UP.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	895.202	0.016	272.858	0.005	2/1	2016	00000879
NGVD29	894.864	0.016	272.755	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -92.743 12B = -92.746 09 = -92.693 03 = -92.483

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_B-PP3342-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_B-PP3342-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_B-PP3342-1-22AUG2011.jpg		Aug 22, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6887.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6887.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 C

NGS Name: 1904 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3343](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	4	113 N	19 W	443749.52	930546.16	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (1985) **Stamping:** 1904 C 1985

1.5 MILES EAST OF FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 12.75, 2.05 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, 29.5 FEET SOUTH OF TRUNK HIGHWAY 50, 20.0 FEET WEST OF DRIVEWAY NUMBER 1560, 9.8 FEET NORTHEAST OF A CORNER FENCE POST, 3.7 FEET WEST OF A POWER POLE, 0.7 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	902.269	0.016	275.012	0.005	2/1	2016	00000879
NGVD29	902.127	0.016	274.969	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.064 12B = -93.064 09 = -93.008 03 = -92.808

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_C-PP3343-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_C-PP3343-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_C-PP3343-1-22AUG2011.jpg		Aug 22, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6888.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6888.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 E

NGS Name: 1904 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3344](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	114 N	19 W	443750.00	930319.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1904 E 1985

2.75 MILES WEST OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 14.7, 4.3 MILES WEST-NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, 27.0 FEET NORTH OF A TRUNK HIGHWAY 50, 20.0 FEET EAST OF COUNTY ROAD 79, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 50 CULVERT.

Station Notes

SET IN THE HEADWALL AT THE SOUTHEAST CORNER OF A BOX CULVERT UNDER A HIGHWAY .
 THE BOX CULVERT HAS BEEN REPLACED WITH A ROUND CULVERT IN 2006.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	877.393	0.016	267.430	0.005	2/1	1995	00000136
NGVD29	877.629	0.016	267.502	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.586 12B = -93.582 09 = -93.530 03 = -93.346

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6889.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6889.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 F

NGS Name: 1904 F

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	113 N	19 W	443748.00	930244.00	2	

NGS ACRN: PP3345	Get Map
NGS Quad / Sta Num : 44093121/	
USGS Quad: COATES	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2006	DESTROYED	Horz=NO Vert=NO	NO	3623		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1975) **Stamping:** 1904 F 1975

2.25 MILES WEST-NORTHWEST OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 15.2, 3.75 MILES WEST-NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 50 BRIDGE NUMBER 3623 OVER THE VERMILLION RIVER, 16.5 FEET SOUTH OF TRUNK HIGHWAY 50.

Station Notes

RECOVERED UNSTAMPED DISK, A VERTICAL CONTROL MARK DISK AND BRIDGE NUMBER 3623 IS GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	874. 769	0. 016	266. 630	0. 005	2/1	1995	00000136
NGVD29	874. 631	0. 016	266. 588	0. 005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.717 12B = -93.710 09 = -93.658 03 = -93.481

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6890.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6890.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 G

NGS Name: 1904 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3346](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	113 N	18 W	443748.68	930130.41	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1904 G 1975

1.85 MILES NORTHWEST OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 16.2, 2.75 MILES NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 50 BOX CULVERT, 19.5 FEET SOUTH OF TRUNK HIGHWAY 50.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	890.740	0.016	271.498	0.005	2/1	2016	00000879
NGVD29	890.602	0.016	271.456	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.979 12B = -93.973 09 = -93.917 03 = -93.750

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_G-PP3346-3S-19OCT2022.jpg	S	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_G-PP3346-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_G-PP3346-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6891.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6891.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 H

NGS Name: 1904 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3347](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	8	113 N	18 W	443702.56	930032.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1904 H 1975

0.5 MILE NORTH OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 17.45, 1.6 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52 IN HAMPTON, 125.0 FEET SOUTH OF A DRIVE TO THE HAMPTON SPORTSMAN'S CLUB, 18.0 FEET NORTHEAST OF TRUNK HIGHWAY 50, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 50 CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	946.078	0.016	288.365	0.005	2/1	2016	00000879
NGVD29	945.930	0.016	288.320	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -94.314 12B = -94.311 09 = -94.252 03 = -94.091

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_H-PP3347-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_H-PP3347-2-18AUG2011.jpg		Aug 18, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_H-PP3347-1-18AUG2011.jpg		Aug 18, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6892.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6892.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 J

NGS Name: 1904 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3348](#) [Get Map](#)
NGS Quad / Sta Num : 44093122/
USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	8	113 N	18 W	443630.86	930001.58	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2022	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1904 J 1975

IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 18.15, 0.8 MILE NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, 16.5 FEET NORTHEAST OF TRUNK HIGHWAY 50, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 50 BOX CULVERT.

Station Notes

TOP OF HEADWALL 1.0 FOOT BELOW GROUND LEVEL.

CURRENT CULVERT IS ROUND.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	975.083	0.016	297.206	0.005	2/1	2016	00000879
NGVD29	974.936	0.016	297.161	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -94.508 12B = -94.508 09 = -94.445 03 = -94.285

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_J-PP3348-3NE-18AUG2011.jpg	NE	Aug 18, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_J-PP3348-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_J-PP3348-1-21OCT2014.jpg		Oct 21, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6893.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6893.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 K

NGS Name: 1904 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3349](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	8	113 N	18 W	443610.28	925959.10	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1904 K 1985

IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 18.6, 0.4 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 50 BOX CULVERT, 21.5 FEET EAST OF TRUNK HIGHWAY 50.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	958.705	0.016	292.214	0.005	2/1	2016	00000879
NGVD29	958.561	0.016	292.170	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -94.563 12B = -94.563 09 = -94.501 03 = -94.344

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_K-PP3349-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_K-PP3349-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_K-PP3349-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6894.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6894.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 L

NGS Name: 1904 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3350](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	8	113 N	18 W	443638.61	930007.01	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEP	VERTICAL CONTROL DISK	MNDT

Description: (2011)

Stamping: 1904 L 1985

IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 18.0, 87.0 FEET NORTHEAST OF TRUNK HIGHWAY 50, 38.0 FEET NORTHWEST OF COUNTY ROAD 47, IN THE SOUTH END OF THE LOWER STEP AT THE MAIN ENTRANCE TO SAINT MATHIAS CHURCH.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	994.263	0.016	303.052	0.005	2/1	2016	00000879
NGVD29	994.211	0.016	303.036	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -94.468 12B = -94.465 09 = -94.406 03 = -94.245

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_L-PP3350-3NW-19OCT2022.jpg	NW	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_L-PP3350-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_L-PP3350-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6895.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6895.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 M

NGS Name: 1904 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3351](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	113 N	18 W	443724.00	930059.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1904 M 1985

0.75 MILE NORTH OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 16.9, 2.15 MILES NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, 35.5 FEET SOUTHWEST OF TRUNK HIGHWAY 50, 34.0 FEET SOUTH OF DARKHORSE LANE,

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	922.800	0.016	281.270	0.005	2/1	1995	00000136
NGVD29	922.656	0.016	281.226	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -94.166 12B = -94.163 09 = -94.104 03 = -93.940

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_M-PP3351-1-06NOV2006.jpg		Nov 6, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6896.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6896.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 M RESET

NGS Name: 1904 M RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1054](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	6	113 N	18 W	443722.48	930057.93	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1904 M RESET 2014

0.75 MILE NORTH OF HAMPTON, 2.15 MILES NORTHWEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52 IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 16.9, 35.5 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 50, 34.0 FEET SOUTH-SOUTHEAST OF DARK HORSE LANE, 4.2 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	922.456	0.016	281.165	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.166 12B = -94.163 09 = -94.104 03 = -93.940

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 22.48204	93 00 57.93189		578264.866	155185.826	176255.484	47300.735	252.462		2016	GPS3148
NAD83 (1996)	44 37 22.48205	93 00 57.93245		578264.825	155185.827	176255.471	47300.735	252.519	C	2016	HTRIER

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_M_RESET-DQ1054-3SW-19OCT2022.jpg	SW	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_M_RESET-DQ1054-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_M_RESET-DQ1054-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102817.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102817.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 N

NGS Name: 1904 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3352](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	114 N	19 W	443749.62	930224.21	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1904 N 1985

2.5 MILES NORTHWEST OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 15.5, 3.45 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, 38.5 FEET NORTH OF TRUNK HIGHWAY 50, 23.0 FEET WEST OF AN ENTRANCE, 14.2 FEET SOUTH OF A GATE POST, 14.0 FEET SOUTH OF A WITNESS POST.

Station Notes

ROD LEANING TO THE WEST, MIGHT BE REPAIRABLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.610	0.016	269.325	0.005	2/1	1995	00000136
NGVD29	883.469	0.016	269.282	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.779 12B = -93.773 09 = -93.720 03 = -93.546

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_N-PP3352-3N-25OCT2006.jpg	N	Oct 25, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_N-PP3352-2-25OCT2006.jpg		Oct 25, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_N-PP3352-1-21AUG2011.jpg		Aug 21, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6897.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6897.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 N RESET

NGS Name: 1904 N RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1052](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	114 N	19 W	443749.62	930224.21	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1904 N RESET 2014

2.5 MILES NORTHWEST OF HAMPTON, 3.45 MILES WEST AND NORTH ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52 IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 15.5, 38.5 FEET NORTH OF TRUNK HIGHWAY 50, 23.0 FEET WEST OF DRIVEWAY NUMBER 3265, 14.2 FEET SOUTH OF A WEST GATE POST, 14.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.427	0.016	269.269	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.779 12B = -93.773 09 = -93.720 03 = -93.546

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_N_RESET-DQ1052-3N-21OCT2022.jpg	N	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_N_RESET-DQ1052-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_N_RESET-DQ1052-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102818.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102818.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 P

NGS Name: 1904 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3353](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	113 N	19 W	443749.20	930305.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2015	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1904 P 1985

3.3 MILES WEST-NORTHWEST OF HAMPTON, IN THE SOUTHEAST CORNER OF A WOODEN BOX CULVERT UNDER TRUNK HIGHWAY 50, AT TRUNK HIGHWAY 50 MILEPOINT 14.9, 4.05 MILES NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, 18.5 FEET SOUTH OF TRUNK HIGHWAY 50.

Station Notes

IN THE SOUTHEAST CORNER OF A BOX CULVERT UNDER A HIGHWAY FOUND THE WOODEN BOX CULVERT IN PLACE IN 2006.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	875.595	0.016	266.882	0.005	2/1	1995	00000136
NGVD29	875.458	0.016	266.840	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.638 12B = -93.635 09 = -93.582 03 = -93.402

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_P-PP3353-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6898.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6898.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 Q

NGS Name: 1904 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3354](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	2	113 N	19 W	443749.20	930325.70	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2015	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1904 Q 1985

2.75 MILES WEST-NORTHWEST OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 14.65, 4.3 MILES NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 50 BOX CULVERT, 18.0 FEET SOUTH OF TRUNK HIGHWAY 50, 500.0 FEET WEST OF COUNTY ROAD 79, 13.7 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	878.145	0.016	267.659	0.005	2/1	1995	00000136
NGVD29	878.007	0.016	267.617	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.563 12B = -93.556 09 = -93.507 03 = -93.323

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6899.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6899.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 R

NGS Name: 1904 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3355](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	113 N	19 W	443749.03	930432.10	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1904 R 1985

2.5 MILES EAST OF FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 13.75, 3.05 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, 45.0 FEET SOUTH OF TRUNK HIGHWAY 50, 28.0 FEET EAST OF ANNETTE AVENUE, 2.5 FEET NORTH OF A POWER POLE, 0.5 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	912.725	0.016	278.199	0.005	2/1	2016	00000879
NGVD29	912.853	0.016	278.238	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.323 12B = -93.320 09 = -93.268 03 = -93.077

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_R-PP3355-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_R-PP3355-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_R-PP3355-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6900.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6900.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 S

NGS Name: 1904 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3356](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	114 N	19 W	443751.00	930509.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1904 S 1985

2.0 MILES EAST OF FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 13.25, 2.55 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, 92.0 FEET NORTH OF TRUNK HIGHWAY 50, 31.0 FEET EAST OF AHERN AVENUE, 62.0 FEET NORTH OF A POWER POLE.

Station Notes

THE DISK HAS BEEN HIT AND IS LEANING BADLY NORTH, SEE PHOTOS. THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	917.662	0.016	279.704	0.005	2/1	1995	00000136
NGVD29	917.524	0.016	279.662	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -93.192 12B = -93.192 09 = -93.133 03 = -92.939

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_S-PP3356-2-25OCT2006.jpg		Oct 25, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_S-PP3356-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6901.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6901.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 S RESET

NGS Name: 1904 S RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1043](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	114 N	19 W	443750.55	930508.79	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1904 S RESET 2014

2.0 MILES EAST OF FARMINGTON, 2.55 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 13.25, 92.0 FEET NORTH OF TRUNK HIGHWAY 50, 62.0 FEET NORTH OF A POWER POLE, 31.0 FEET EAST OF AHERN AVENUE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	917.285	0.016	279.589	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.192 12B = -93.192 09 = -93.133 03 = -92.939

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_S_RESET-DQ1043-3E-21OCT2022.jpg	E	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_S_RESET-DQ1043-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_S_RESET-DQ1043-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102819.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102819.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 T

NGS Name: 1904 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3357](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	113 N	19 W	443748.00	930630.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	BENCH MARK DISK	MNDT

Description: (1985) **Stamping:** 1904 T 1985

0.75 MILE EAST OF FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 12.1, 1.45 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, 250.0 FEET SOUTH OF TRUNK HIGHWAY 50, 3.8 FEET NORTH-NORTHEAST OF A POWER POLE, 29.5 FEET WEST OF BEAUMONT AVENUE, 63.4 FEET WEST OF A TELEPHONE CABLE MARKER POST, 1.2 FEET WEST OF A WITNESS POST.

Station Notes
RECOVERED ROD WITH NO DISK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	890.087	0.016	271.299	0.005	2/1	1995	00000136
NGVD29	889.949	0.016	271.257	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -92.920 12B = -92.923 09 = -92.867 03 = -92.661

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_T-PP3357-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6902.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6902.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 T RESET

NGS Name: 1904 T RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1041](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	113 N	19 W	443747.08	930629.50	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1904 T RESET 2011

1.05 MILES EAST OF FARMINGTON, 1.45 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 12.1, 250.0 FEET SOUTH OF TRUNK HIGHWAY 50, 3.8 FEET NORTH-NORTHEAST OF A POWER POLE, 29.5 FEET WEST OF BEAUMONT AVENUE, 63.4 FEET WEST OF A TELEPHONE PEDESTAL NUMBER 22110 BUT, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	889.926	0.016	271.250	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.916 12B = -92.920 09 = -92.864 03 = -92.661

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_T_RESET-DQ1041-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_T_RESET-DQ1041-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_T_RESET-DQ1041-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94570.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94570.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 U

NGS Name: 1904 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1056](#) [Get Map](#)
NGS Quad / Sta Num : 44092433/
USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	8	113 N	18 W	443620.72	925958.89	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1904 U 2015

IN HAMPTON, 0.65 MILE WEST AND NORTH ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52 IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 18.35, 34.8 FEET EAST ON TRUNK HIGHWAY 50, 63.8 FEET SOUTH OF A FIELD ENTRANCE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	982.265	0.016	299.395	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.540 12B = -94.540 09 = -94.478 03 = -94.321

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 20.72388	92 59 58.89459	582559.298	148947.426	177564.429	45399.266	270.583			2016	GPS3148	
NAD83 (1996)	44 36 20.72389	92 59 58.89516	582559.256	148947.427	177564.417	45399.266	270.640	C		2016	HTRIER	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_U-DQ1056-3E-19OCT2022.jpg	E	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_U-DQ1056-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_U-DQ1056-1-31MAR2015.jpg		Mar 31, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103095.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103095.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 V

NGS Name: 1904 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1055](#) [Get Map](#)
NGS Quad / Sta Num : 44093122/
USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	8	113 N	18 W	443654.44	930023.14	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1904 V 2015

IN HAMPTON, 0.4 MILE NORTHWEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 47/NORTHFIELD BOULEVARD IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 17.65, 38.4 FEET NORTHEAST OF TRUNK HIGHWAY 50, 41.0 FEET NORTHWEST OF AN ENTRANCE TO THE WASTEWATER TREATMENT FACILITY, 2.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	977.488	0.016	297.939	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.367 12B = -94.367 09 = -94.308 03 = -94.147

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 36 54.43881	93 00 23.14477		580791.791	152355.166	177025.692	46437.948	269.177		2016	GPS3148
NAD83 (1996)	44 36 54.43883	93 00 23.14533		580791.750	152355.168	177025.679	46437.948	269.234	C	2016	HTRIER

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_V-DQ1055-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_V-DQ1055-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_V-DQ1055-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103096.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103096.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 W

NGS Name: 1904 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1053](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	6	113 N	18 W	443748.65	930139.11	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1904 W 2015

1.8 MILES NORTHWEST OF HAMPTON, 1.95 MILES NORTHWEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 47/NORTHFIELD BOULEVARD IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 16.1, 36.4 FEET SOUTH OF TRUNK HIGHWAY 50, 15.3 FEET EAST OF A FIELD ENTRANCE, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.784	0.016	272.121	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.950 12B = -93.940 09 = -93.884 03 = -93.717

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 48.64997	93 01 39.11453		575276.771	157825.221	175344.711	48105.224	243.487		2016	GPS3148
NAD83 (1996)	44 37 48.64998	93 01 39.11510		575276.730	157825.222	175344.698	48105.224	243.543	C	2016	HTRIER

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_W-DQ1053-3S-19OCT2022.jpg	S	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_W-DQ1053-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_W-DQ1053-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103097.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103097.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 X

NGS Name: 1904 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1051](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	1	113 N	19 W	443748.67	930235.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 27 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1904 X 2015

2.5 MILES NORTHWEST OF HAMPTON, 2.7 MILES NORTHWEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 47/NORTHFIELD BOULEVARD IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 15.3, 57.6 FEET SOUTH OF TRUNK HIGHWAY 50, 61.2 FEET EAST OF DRIVEWAY NUMBER 3136/3140, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.788	0.016	266.331	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.740 12B = -93.737 09 = -93.681 03 = -93.507

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_X-DQ1051-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_X-DQ1051-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_X-DQ1051-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103098.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103098.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 Y

NGS Name: 1904 Y

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1047](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	1	113 N	19 W	443748.52	930318.60	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 26 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1904 Y 2015

4.0 MILES EAST OF FARMINGTON, 4.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 14.75, 73.1 FEET SOUTH OF TRUNK HIGHWAY 50, 58.0 FEET EAST OF COUNTY ROAD 79/BLAINE AVENUE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	878.998	0.016	267.919	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.586 12B = -93.582 09 = -93.530 03 = -93.350

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 48.52321	93 03 18.59792		568082.206	157788.058	173151.803	48093.896	239.391		2016	GPS3148
NAD83 (1996)	44 37 48.52319	93 03 18.59840		568082.171	157788.056	173151.792	48093.896	239.451	C	2016	HTRIER

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_Y-DQ1047-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_Y-DQ1047-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_Y-DQ1047-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103099.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103099.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1904 Z

NGS Name: 1904 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1042](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	4	113 N	19 W	443749.38	930552.57	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	POOR	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 49 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1904 Z 2015

1.9 MILES EAST OF FARMINGTON, 1.9 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 12.65, 46.3 FEET SOUTH OF TRUNK HIGHWAY 50, 65.1 FEET WEST OF A FIELD ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Station Notes

ROD LEANING EAST AFTER NEW EXCAVATION FOR A NEW ROAD TO SUBDIVISION.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	907.334	0.016	276.556	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.041 12B = -93.044 09 = -92.985 03 = -92.785

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 37 49.37886	93 05 52.56799	556946.886	157841.882	169757.750	48110.302	248.190			2016	GPS3148	
NAD83 (1996)	44 37 49.37883	93 05 52.56846	556946.852	157841.879	169757.740	48110.301	248.249	C		2016	HTRIER	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_Z-DQ1042-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_Z-DQ1042-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1904_Z-DQ1042-1-31MAR2015.jpg		Mar 31, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103100.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103100.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 B

NGS Name: 1905 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0550](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	12	112 N	18 W	443117.70	925527.16	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=NO Vert=NO	YES	9488	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1905 B 1972

1.0 MILE NORTHWEST OF CANNON FALLS, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 52 IN CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 99.1, 17.0 FEET SOUTH OF COUNTY ROAD 88 (295TH STREET EAST), IN THE ABUTMENT IN THE SOUTHEAST CORNER OF COUNTY ROAD 88 BRIDGE NUMBER 9488 OVER TRUNK HIGHWAY 52.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	846.366	0.016	257.973	0.005	2/1	2016	00000879
NGVD29	846.225	0.016	257.930	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -96.030 12B = -96.027 09 = -95.964 03 = -95.840

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_B-PP0550-3W-06OCT2022.jpg	W	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_B-PP0550-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_B-PP0550-1-24APR2017.jpg		Apr 24, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6903.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6903.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 C

NGS Name: 1905 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0551](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	12	112 N	18 W	443138.00	925543.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1972) **Stamping:** 1905 C 1972

1.4 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 AT CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 99.45, 0.15 MILE NORTH OF A RAILROAD CROSSING, 98.7 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 1.4 FEET SOUTHWEST OF A RIGHT-OF-WAY AND A WITNESS POST.

Station Notes

RECOVERED WHAT WAS LEFT OF A CONCRETE MONUMENT WITH NO DISK, ONE PHOTO OF WHAT IS LEFT OF CONCRETE AND REBAR.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	860.832	0.016	262.382	0.005	2/0	1991	00000025
NGVD29	860.677	0.016	262.335	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -95.961 12B = -95.958 09 = -95.895 03 = -95.768

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_C-PP0551-1-08NOV2006.jpg		Nov 8, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6904.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6904.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 C 1

NGS Name: 1905 C 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0552](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	12	112 N	18 W	443133.36	925622.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2015	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	MNDT

Description: (2012)

Stamping: 1905 C 1 1972

2.0 MILES NORTHWEST OF CANNON FALLS, 0.05 MILE WEST ON COUNTY ROAD 86 FROM THE JUNCTION OF COUNTY ROAD 86 AND TRUNK HIGHWAY 52, THEN 1.1 MILES SOUTHEAST AND SOUTH ON 280TH STREET EAST AND HARRY AVENUE, 78.51 WEST OF HARRY AVENUE, 59.51 FEET NORTH OF THE NORTH RAIL, 29.5 FEET NORTH OF A DRIVEWAY, 19.3 FEET NORTH OF A WITNESS POST, IN THE CONCRETE FOOTING OF THE SOUTHEAST LEG OF A STEEL POWER LINE TOWER.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	864.057	0.016	263.365	0.005	2/1	2016	00000879
NGVD29	863.925	0.016	263.325	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.823 12B = -95.820 09 = -95.761 03 = -95.633

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_C_1-PP0552-3N-29AUG2011.jpg	N	Aug 29, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_C_1-PP0552-2-29AUG2011.jpg		Aug 29, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_C_1-PP0552-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6905.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6905.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 D

NGS Name: 1905 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0554](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	1	112 N	18 W	443158.00	925600.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2015	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 1 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (1972) **Stamping:** 1905-D 1972

1.9 MILES NORTHWEST OF CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 100.05, 0.6 MILE NORTH OF A RAILROAD CROSSING, 0.75 MILE SOUTH OF COUNTY ROAD 86, 99.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52. 1.5 FEET SOUTHWEST OF A WITNESS POST

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.663	0.016	266.293	0.005	2/0	1991	00000025
NGVD29	873.512	0.016	266.247	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -95.886 12B = -95.879 09 = -95.820 03 = -95.689

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6906.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6906.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 E

NGS Name: 1905 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0555](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	1	112 N	18 W	443211.00	925608.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2015	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 1905-E 1972

2.1 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 100.25, 0.55 MILE SOUTH OF COUNTY ROAD 86, 88.3 FEET NORTHEAST OF TRUNK HIGHWAY 52.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	882.252	0.016	268.911	0.005	2/0	1991	00000025
NGVD29	882.101	0.016	268.865	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -95.843 12B = -95.840 09 = -95.781 03 = -95.649

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6907.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6907.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 F

NGS Name: 1905 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0556](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	35	113 N	18 W	443243.00	925633.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1905 F 1972

2.8 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 IN CANNON FALLS, 0.2 MILE NORTHWEST OF COUNTY ROAD 86, 99.0 FEET NORTHEAST OF THE NORTHBOUND TRUNK HIGHWAY 52, 70.5 FEET NORTH-NORTHEAST OF MILEPOST 101, 1.2 FEET SOUTHWEST OF A RIGHT-OF-WAY MARKER.

Station Notes

RECOVERED WHAT WAS LEFT OF A BROKEN WITNESS POST AND REBAR FROM CONCRETE MONUMENT. NO DISK WAS FOUND, ONE PHOTO TAKEN OF WHAT IS LEFT OF REBAR.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	875.740	0.016	266.926	0.005	2/0	1991	00000025
NGVD29	875.589	0.016	266.880	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -95.722 12B = -95.718 09 = -95.659 03 = -95.528

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_F-PP0556-1-08NOV2006.jpg		Nov 8, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6908.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6908.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 G

NGS Name: 1905 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0557](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	113 N	18 W	443332.00	925657.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1905 G 1972

3.7 MILES NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 102.0, 0.55 MILE SOUTHEAST OF GOODWIN AVENUE, 99.0 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 0.7 FOOT NORTHWEST OF A WITNESS POST.

Station Notes

RECOVERED WHAT WAS LEFT OF BROKEN CONCRETE, NO DISK, AND ONE PHOTO OF BROKEN CONCRETE AND BENT REBAR.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.555	0.016	266.260	0.005	2/0	1991	00000025
NGVD29	873.404	0.016	266.214	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -95.577 12B = -95.567 09 = -95.508 03 = -95.374

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_G-PP0557-1-08NOV2006.jpg		Nov 8, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6909.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6909.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 H

NGS Name: 1905 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0558](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	26	113 N	18 W	443357.36	925715.05	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1905 H 1972

4.15 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 47 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 102.5, 0.05 MILE SOUTH OF GOODWIN AVENUE, 57.4 FEET NORTHEAST OF THE NORTHBOUND TRUNK HIGHWAY 52, IN THE SOUTH WALL OF THE NORTH CONCRETE WEIR OF TWO.

Station Notes
THE MARK IS USABLE WITH 6.0 FEET ROD HEIGHT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	901.767	0.016	274.859	0.005	2/1	2016	00000879
NGVD29	901.622	0.016	274.815	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.472 12B = -95.459 09 = -95.403 03 = -95.269

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_H-PP0558-3NE-06OCT2022.jpg	NE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_H-PP0558-2-28JUL2011.jpg		Jul 28, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_H-PP0558-1-28JUL2011.jpg		Jul 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6910.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6910.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 J

NGS Name: 1905 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0559](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	27	113 N	18 W	443415.50	925736.95	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (1972) **Stamping:** 1905 J 1972

3.65 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 47 IN HAMPTON, 2.6 MILES SOUTH OF TRUNK HIGHWAY 50, 125.0 FEET NORTH OF A CULVERT, 27.4 FEET NORTHEAST OF MILEPOST 103, 57.0 FEET NORTHEAST OF THE NORTHBOUND TRUNK HIGHWAY 52, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	962.849	0.016	293.477	0.005	2/1	2016	00000879
NGVD29	962.715	0.016	293.436	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.354 12B = -95.341 09 = -95.292 03 = -95.151

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_J-PP0559-3NE-06OCT2022.jpg	NE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_J-PP0559-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_J-PP0559-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6911.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6911.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 K

NGS Name: 1905 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0560](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	22	113 N	18 W	443444.77	925818.21	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1905 K 1972

2.6 MILES SOUTHEAST OF HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 103.75, 1.9 MILES SOUTHEAST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, 0.05 MILE SOUTH OF FISCHER AVENUE, 34.1 FEET NORTHEAST OF THE NORTHBOUND TRUNK HIGHWAY 52, IN THE NORTHEAST CORNER OF THE HEADWALL OF A BOX CULVERT, 2.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	966.635	0.016	294.631	0.005	2/1	2016	00000879
NGVD29	966.497	0.016	294.589	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.138 12B = -95.128 09 = -95.079 03 = -94.934

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_K-PP0560-3NE-06OCT2022.jpg	NE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_K-PP0560-2-28JUL2011.jpg		Jul 28, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_K-PP0560-1-28JUL2011.jpg		Jul 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6912.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6912.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 L

NGS Name: 1905 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0561](#) [Get Map](#)
NGS Quad / Sta Num : 44092433/
USGS Quad: CANNON FALLS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	22	113 N	18 W	443454.17	925831.13	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1972	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2011) Stamping: 1905 L 1972

2.6 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 47 AT HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 104.05, 1.6 MILES SOUTHEAST OF TRUNK HIGHWAY 50, 2.1 MILES SOUTHEAST OF HAMPTON. 0.2 MILE NORTHWEST OF FISCHER AVENUE, 71.4 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 1.1 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	979.946	0.016	298.688	0.005	2/1	2016	00000879
NGVD29	979.824	0.016	298.651	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.069 12B = -95.059 09 = -95.010 03 = -94.865

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude		Longitude		X	Y	X	Y			Year	Reference
NAD83 (2011)	44	34 54.17058	92 58 31.13125	588945.709	140207.395	179511.011	42735.299	269.704		2016	GPS3146	
NAD83 (1996)	44	34 54.17045	92 58 31.13171	588945.676	140207.382	179511.001	42735.295	269.773	C	2016	HCOAT	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_L-PP0561-3NE-06OCT2022.jpg	NE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_L-PP0561-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_L-PP0561-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6913.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6913.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 M

NGS Name: 1905 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0562](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	113 N	18 W	443533.95	925914.65	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2007) **Stamping:** 1905 M 1972

1.15 MILES SOUTHEAST OF HAMPTON, 1.65 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 47 AT HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 105.05, 0.6 MILE SOUTHEAST OF TRUNK HIGHWAY 50, 83.4 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1017.485	0.016	310.130	0.005	2/1	2016	00000879
NGVD29	1017.367	0.016	310.094	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.816 12B = -94.810 09 = -94.757 03 = -94.606

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_M-PP0562-3NE-06OCT2022.jpg	NE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_M-PP0562-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_M-PP0562-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6914.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6914.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 N

NGS Name: 1905 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0564](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	113 N	18 W	443604.25	925934.69	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=NO Vert=NO	YES	19011	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1905 N 1972

0.9 MILE SOUTHEAST OF HAMPTON, 0.1 MILE EAST ON TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 56, 35.2 FEET WEST OF MILEPOST 19, 24.0 FEET SOUTH OF TRUNK HIGHWAY 50, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 50 BRIDGE NUMBER 19011 OVER TRUNK HIGHWAY 52.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	982.728	0.016	299.536	0.005	2/1	2016	00000879
NGVD29	982.587	0.016	299.493	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.668 09 = -94.613 03 = -94.455

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_N-PP0564-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_N-PP0564-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_N-PP0564-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6915.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6915.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 P

NGS Name: 1905 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1004](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	12	112 N	18 W	443125.79	925532.20	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1905 P 2015

1.5 MILE NORTHWEST OF CANNON FALLS, 1.25 MILES NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 99.25, 81.8 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	849.172	0.016	258.828	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.007 12B = -96.004 09 = -95.941 03 = -95.813

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 31 25.79329	92 55 32.20509	601997.662	119162.367	183489.254	36320.762	229.565			2016	GPS3146	
NAD83 (1996)	44 31 25.79314	92 55 32.20555	601997.629	119162.352	183489.244	36320.757	229.625	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_P-DQ1004-3E-06OCT2022.jpg	E	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_P-DQ1004-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_P-DQ1004-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103372.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103372.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 Q

NGS Name: 1905 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1003](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	1	112 N	18 W	443208.82	925607.87	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1905 Q 2015

2.5 MILES NORTHWEST OF CANNON FALLS, 2.2 MILES NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 100.25, 85.5 FEET NORTHEAST OF THE NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 0.55 MILE SOUTHEAST OF COUNTY ROAD 86, 3.4 FEET SOUTHWEST OF A FENCE, 2.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	880.799	0.016	268.468	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.846 12B = -95.843 09 = -95.784 03 = -95.653

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 08.82232	92 56 07.86816	599393.421	123507.842	182695.480	37645.265	239.257			2016	GPS3146	
NAD83 (1996)	44 32 08.82218	92 56 07.86864	599393.387	123507.827	182695.470	37645.261	239.320	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_Q-DQ1003-3NE-06MAY2015.jpg	NE	May 6, 2015
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_Q-DQ1003-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_Q-DQ1003-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103373.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103373.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1905 R

NGS Name: 1905 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1002](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	113 N	18 W	443255.67	925644.49	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1905 R 2015

3.5 MILES NORTHWEST OF CANNON FALLS, 3.2 MILES NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 101.25, 84.9 FEET SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52, 0.50 MILE NORTHWEST OF COUNTY ROAD 86, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	875.428	0.016	266.831	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.669 12B = -95.663 09 = -95.600 03 = -95.469

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 55.66485	92 56 44.49441	596718.724	128239.534	181880.231	39087.488	237.669	2016	GPS3146			
NAD83 (1996)	44 32 55.66471	92 56 44.49486	596718.691	128239.519	181880.221	39087.484	237.733	2016	HCOAT	C		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_R-DQ1002-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_R-DQ1002-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1905_R-DQ1002-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103374.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103374.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 A

NGS Name: 1906 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0565](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	9	113 N	18 W	443640.35	925939.76	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2015	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1906 A 1972

IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 106.35, 0.7 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, 197.0 FEET NORTH OF EMERY AVENUE EAST, 66.2 FEET EAST OF TRUNK HIGHWAY 52, 56.2 FEET NORTH OF A FENCE CORNER, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

NEW ROAD CONSTRUCTION DESTROYED THE MARK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	999.266	0.016	304.577	0.005	2/0	1995	00000136
NGVD29	999.119	0.016	304.532	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -94.573 12B = -94.567 09 = -94.511 03 = -94.350

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_A-PP0565-3E-17AUG2011.jpg	E	Aug 17, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_A-PP0565-2-17AUG2011.jpg		Aug 17, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_A-PP0565-1-17AUG2011.jpg		Aug 17, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6916.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6916.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 B

NGS Name: 1906 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0566](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	4	113 N	18 W	443659.04	925939.82	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 7 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (1985) **Stamping:** 1906 B 1972

IN HAMPTON, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAYS 52 AND 50 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 106.65, 60.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 1.2 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	991.127	0.016	302.096	0.005	2/1	2016	00000879
NGVD29	991.051	0.016	302.073	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.527 12B = -94.521 09 = -94.465 03 = -94.308

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 36 59.03691	92 59 39.82509	583923.618	152833.012	177980.275	46583.595	273.282			2016	GPS3146	
NAD83 (1996)	44 36 59.03678	92 59 39.82555	583923.585	152832.998	177980.265	46583.591	273.346	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_B-PP0566-3E-21OCT2014.jpg	E	Oct 21, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_B-PP0566-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_B-PP0566-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6917.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6917.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 C

NGS Name: 1906 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0567](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	113 N	18 W	443748.00	925940.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1906 C 1972

1.0 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 47 AT HAMPTON, 100.0 FEET NORTH OF A CROSSOVER, 70.5 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 107.65, 2.0 FEET SOUTH OF A POWER POLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	972.633	0.016	296.459	0.005	2/0	1991	00000025
NGVD29	972.488	0.016	296.415	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -94.409 12B = -94.396 09 = -94.340 03 = -94.180

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_C-PP0567-3E-06NOV2006.jpg	E	Nov 6, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_C-PP0567-2-06NOV2006.jpg		Nov 6, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_C-PP0567-1-06NOV2006.jpg		Nov 6, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6918.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6918.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 D

NGS Name: 1906 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0569](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	29	114 N	18 W	443842.95	925949.38	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1906 D 1972

2.0 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 47 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 108.7, 1.1 MILES SOUTH OF COUNTY ROAD 66 IN EMPIRE, 0.05 MILE NORTH OF 210TH STREET, 62.0 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 0.8 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.619	0.016	280.910	0.005	2/1	2016	00000879
NGVD29	921.566	0.016	280.894	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.206 12B = -94.193 09 = -94.137 03 = -93.976

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_D-PP0569-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_D-PP0569-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_D-PP0569-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6919.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6919.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 E

NGS Name: 1906 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0573](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	20	114 N	18 W	443941.61	930025.50	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=NO Vert=NO	YES	9675	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1906 E 1972

0.4 MILE EAST OF THE JUNCTION OF COUNTY ROAD 66 (200TH STREET) AND DONNELLY AVENUE IN EMPIRE, THEN 0.2 MILE NORTH, 184.0 FEET SOUTH OF MILEPOST 110, ALONG TRUNK HIGHWAY 52 IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 9675 OVER THE VERMILLION RIVER, 27.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52.

Station Notes

THE RAILROAD HAS BEEN REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	851.176	0.016	259.439	0.005	2/1	2016	00000879
NGVD29	851.012	0.016	259.389	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.861 12B = -93.858 09 = -93.792 03 = -93.612

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_E-PP0573-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_E-PP0573-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_E-PP0573-1-16AUG2011.jpg		Aug 16, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6920.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6920.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 E 1

NGS Name: 1906 E 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0572](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	114 N	18 W	443940.00	930025.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1947	2006	DESTROYED	Horz=NO Vert=NO	NO	6442	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1906 E 1 1947

0.45 MILE EAST OF THE JUNCTION OF COUNTY ROAD 66 AND DONNELLY AVENUE IN EMPIRE THEN 0.2 MILE NORTH, AT TRUNK HIGHWAY 52 MILEPOINT 110.0, IN THE SOUTHEAST CORNER OF THE SOUTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 6442 OVER THE VERMILLION RIVER.

Station Notes

BRIDGE NUMBER 19033 BUILT IN 1978 IS NOW IN PLACE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	851.563	0.016	259.557	0.005	2/0	1991	00000025
NGVD29	851.419	0.016	259.513	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -93.852 12B = -93.852 09 = -93.783 03 = -93.605

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6921.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6921.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 F

NGS Name: 1906 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0574](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	114 N	18 W	444024.00	930047.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2007) **Stamping:** 1906 F 1972

3.1 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 48 AT COATES, AT TRUNK HIGHWAY 52 MILEPOINT 110.9, 0.9 MILE NORTH OF THE VERMILLION RIVER, 112.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 29.5 FEET SOUTH OF COUNTY ROAD 62.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	900.740	0.016	274.546	0.005	2/0	1991	00000025
NGVD29	900.592	0.016	274.501	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -93.602 12B = -93.609 09 = -93.540 03 = -93.350

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_F-PP0574-1-06NOV2006.jpg		Nov 6, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6922.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6922.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 G

NGS Name: 1906 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0575](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	18	114 N	18 W	444055.57	930103.62	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2015	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	MNDT

Description: (1972) **Stamping:** 1906 G 1972

2.5 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 48 AT COATES, AT TRUNK HIGHWAY 52 MILEPOINT 111.5, 0.6 MILE NORTH OF COUNTY ROAD 62, 39.4 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 52, 35.6 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 52, IN TRUNK HIGHWAY 52 MEDIAN, 1.0 FOOT NORTHWEST OF A WITNESS POST, IN THE SOUTHEAST EDGE OF A CONCRETE INLET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	896.091	0.016	273.129	0.005	2/0	1991	00000025
NGVD29	895.943	0.016	273.084	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -93.412 12B = -93.422 09 = -93.359 03 = -93.156

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_G-PP0575-3W-06NOV2006.jpg	W	Nov 6, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_G-PP0575-2-06NOV2006.jpg		Nov 6, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_G-PP0575-1-06NOV2006.jpg		Nov 6, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6923.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6923.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 H

NGS Name: 1906 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0576](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	18	114 N	18 W	444107.00	930107.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (1994)

Stamping: 1906-H 1972

2.2 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 48 AT COATES, 1.25 MILES SOUTH OF 170TH STREET, 0.05 MILE NORTH OF A CROSSOVER, 6.2 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 111.75, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	916.481	0.016	279.344	0.005	2/0	1991	00000025
NGVD29	916.330	0.016	279.298	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.350 12B = -93.363 09 = -93.300 03 = -93.097

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6924.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6924.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 J

NGS Name: 1906 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1471](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	7	114 N	18 W	444154.00	930131.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (1972) **Stamping:** 1906 J 1972

1.3 MILES SOUTH OF COATES, AT TRUNK HIGHWAY 52 MILEPOINT 112.7, 1.3 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 48, 0.3 MILE SOUTH OF 170TH STREET, 0.05 MILE NORTH OF A PIPELINE CROSSING, 51.8 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52.

Station Notes

RECOVERED WHAT IS LEFT OF THE CONCRETE MONUMENT AND THE WITNESS POST, NO DISK AND THE MONUMENT IS BROKE OFF.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	918.528	0.016	279.968	0.005	2/0	1991	00000025
NGVD29	918.374	0.016	279.921	0.005	2	1973	L22891

Geoid Separations(ft): GEOID18 = -93.067 12B = -93.077 09 = -93.005 03 = -92.811

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_J-PP1471-1-06NOV2006.jpg		Nov 6, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6925.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6925.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 K

NGS Name: 1906 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1472](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	6	114 N	18 W	444244.00	930159.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2009	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1972) **Stamping:** 1906-K 1972

0.4 MILE SOUTH OF COUNTY ROAD 48 IN COATES, AT TRUNK HIGHWAY 52 MILEPOINT 113.65, 0.05 MILE SOUTH OF CLAYTON AVENUE EAST, 77.3 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, AT THE SOUTH END OF THE RIGHT TURN LANE, 97.0 FEET SOUTHWEST OF A RIGHT-OF-WAY POST, 0.8 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	920.330	0.016	280.517	0.005	2/0	1991	00000025
NGVD29	920.172	0.016	280.469	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.769 12B = -92.775 09 = -92.707 03 = -92.516

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6926.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6926.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 L

NGS Name: 1906 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1475](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	31	115 N	18 W	444332.75	930204.75	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2009	DESTROYED	Horz=NO Vert=NO	YES			STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (1985) **Stamping:** 1906 L 1972

0.55 MILE NORTH OF COATES, AT MILEPOINT 114.65, ON THE EAST RIGHT-OF-WAY OF TRUNK HIGHWAY 52, 67.5 FEET EAST OF THE NORTHBOUND TRUNK HIGHWAY 52, 53.9 FEET SOUTH-SOUTHWEST OF A WOOD TELEPHONE CABLE MARKER POST, 0.8 FOOT NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	922. 721	0. 016	281. 246	0. 005	2/1	2013	00000781
NGVD29	922. 538	0. 016	281. 190	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.562 12B = -92.559 09 = -92.500 03 = -92.313

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 43 32. 75284	93 02 04. 75170	573302. 009	192668. 331	174742. 802	58725. 425	253. 035		2012	GPS2800
NAD83 (2007)	44 43 32. 75316	93 02 04. 75255	573301. 948	192668. 363	174742. 783	58725. 434	253. 038		2007	GPS2300
NAD83 (1996)	44 43 32. 75286	93 02 04. 75201	573301. 987	192668. 333	174742. 795	58725. 425	253. 089	C	2009	HINVR
NAD83 (1986)	44 43 32. 74481	93 02 04. 74624	573302. 407	192667. 518	174742. 923	58725. 177		C	1991	DIXON' S
NAD27	44 43 32. 86410	93 02 03. 98060						C	1950	UNK

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_L-PP1475-3E-16MAR2009.jpg	E	Mar 16, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_L-PP1475-2-16MAR2009.jpg		Mar 16, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_L-PP1475-1-16MAR2009.jpg		Mar 16, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6927.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 M

NGS Name: 1906 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1476](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	115 N	19 W	444419.85	930204.79	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2023	DESTROYED	Horz=NO Vert=NO	YES	19002	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2002) **Stamping:** 1906 M 1972

1.4 MILES NORTH OF COATES, AT TRUNK HIGHWAY 52 MILEPOINT 115.55, 0.5 MILE SOUTH OF COUNTY ROAD 38, IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19002 OVER COUNTY ROAD 42. NEW BRIDGE 2023.

Station Notes
NEW BRIDGE 2023.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	893.978	0.016	272.485	0.005	2/1	2016	00000879
NGVD29	893.824	0.016	272.438	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.388 12B = -92.382 09 = -92.326 03 = -92.145

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_M-PP1476-3N-01SEP2011.jpg	N	Sep 1, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_M-PP1476-2-16AUG2023.jpg		Aug 16, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_M-PP1476-1-01SEP2011.jpg		Sep 1, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6928.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 N

NGS Name: 1906 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8628](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	115 N	19 W	444419.87	930206.38	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2023	DESTROYED	Horz=NO Vert=YES	YES	19001	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2002) **Stamping:** 1906 N 1997

2.8 MILES SOUTH OF PINE BEND, AT TRUNK HIGHWAY 52 MILEPOINT 115.55, IN AN ABUTMENT AT THE SOUTHWEST CORNER OF SOUTHBOUND BRIDGE NUMBER 19001 OVER COUNTY ROAD 42, 2.8 MILES SOUTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 117TH STREET IN PINE BEND, 19.3 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 1.0 FOOT WEST OF THE SOUTHWEST CORNER OF A BRIDGE. NEW BRIDGE 2023.

Station Notes

NEW BRIDGE 2023.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	893.968	0.016	272.482	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.382 12B = -92.375 09 = -92.319 03 = -92.139

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N-DE8628-3N-01SEP2011.jpg	N	Sep 1, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N-DE8628-2-16AUG2023.jpg		Aug 16, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N-DE8628-1-01SEP2011.jpg		Sep 1, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36799.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36799.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 N 1

NGS Name: 1906 N 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9118](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	25	115 N	19 W	444421.31	930316.82	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1997	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	SURVEY DISK	MNDT

Description: (2009) **Stamping:** 1906 N 1 1997

1.0 MILE WEST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND TRUNK HIGHWAY 52, ABOUT 1.5 MILES NORTH OF COATES, 92.6 FEET NORTH OF COUNTY ROAD 42 WESTBOUND LANE, 47.5 FEET EAST OF COUNTY ROAD 71 (BLAINE AVENUE), 43.0 FEET NORTH-NORTHEAST OF A LIGHT POLE, 35.6 FEET NORTH OF A FENCE CORNER, 2.6 FEET WEST OF A NORTH-SOUTH CYCLONE FENCE, 2.8 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	950. 779 0. 016	289. 798 0. 005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -92.132 12B = -92.123 09 = -92.073 03 = -91.883

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 44 21. 30685	93 03 16. 81502	568083. 158	197568. 392	173152. 093	60218. 966	261. 722			2012	GPS2800	
NAD83 (2007)	44 44 21. 30712	93 03 16. 81595	568083. 091	197568. 419	173152. 072	60218. 975	261. 734	C		2009	GPS2590	
NAD83 (1996)	44 44 21. 30683	93 03 16. 81544	568083. 128	197568. 390	173152. 084	60218. 966	261. 784	C		2009	HINVR	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_1-DE9118-3E-16AUG2023.jpg	E	Aug 16, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_1-DE9118-2-16AUG2023.jpg		Aug 16, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_1-DE9118-1-16AUG2023.jpg		Aug 16, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36779.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36779.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 N 2

NGS Name: 1906 N 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9117](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	115 N	19 W	444419.00	930428.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2023	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (2005) **Stamping:** 1906 N 2 1997

1.95 MILES WEST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 42, ABOUT 1.5 MILES NORTH OF COATES, 75.7 FEET SOUTH OF COUNTY ROAD 42 EASTBOUND LANE, 48.5 FEET EAST OF THE EAST ENTRANCE TO THE DAKOTA COUNTY TECHNICAL COLLEGE, 12.4 FEET EAST OF A POWER POLE, 33.2 FEET EAST-NORTHEAST OF A POWER POLE, 89.0 FEET EAST-SOUTHEAST OF THE NORTHEAST CORNER OF THE DAKOTA COUNTY TECHNICAL COLLEGE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	937.127	0.016	285.637	0.005	2/1	2008	00000425-30

Geoid Separations(ft): GEOID18 = -91.899 12B = -91.893 09 = -91.837 03 = -91.644

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_2-DE9117-3S-25OCT2005.jpg	S	Oct 25, 2005
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_2-DE9117-2-25OCT2005.jpg		Oct 25, 2005
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_2-DE9117-1-25OCT2005.jpg		Oct 25, 2005

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36776.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36776.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 N 3

NGS Name: 1906 N 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9116](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	27	115 N	19 W	444421.35	930543.76	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1997	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (2009) **Stamping:** 1906 N 3 1997

2.0 MILES EAST OF ROSEMOUNT, 1.8 MILES EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND TRUNK HIGHWAY 3 IN ROSEMOUNT, 24.6 FEET SOUTH OF WESTBOUND COUNTY ROAD 42, 30.8 FEET NORTH OF THE EASTBOUND COUNTY ROAD 42, 94.4 FEET NORTHEAST OF A CONCRETE HIGH TENSION POWER POLE, 13.8 FEET WEST OF A DROP INLET, 50.0 FEET EAST OF A CROSSOVER, 2.8 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	933.033	0.016	284.389	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.647 12B = -91.640 09 = -91.581 03 = -91.388

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 44 21.34948	93 05 43.75826	557476.178	197541.241	169919.079	60210.691	256.456	2012	C	GPS2800		
NAD83 (2007)	44 44 21.34969	93 05 43.75913	557476.115	197541.262	169919.060	60210.697	256.474	2009	C	GPS2590		
NAD83 (1996)	44 44 21.34942	93 05 43.75866	557476.149	197541.235	169919.070	60210.689	256.523	2009	C	HINVR		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_3-DE9116-3E-15SEP2011.jpg	E	Sep 15, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_3-DE9116-2-15SEP2011.jpg		Sep 15, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_3-DE9116-1-15SEP2011.jpg		Sep 15, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36777.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36777.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 N 4

NGS Name: 1906 N 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9115](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	115 N	19 W	444358.31	930650.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (1998) **Stamping:** 1906 N 4 1997

1.0 MILE EAST-SOUTHEAST OF ROSEMOUNT, IN A FOOTING AT THE NORTH SIDE OF A HIGH TENSION POWER POLE BASE, 0.7 MILE EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, 41.5 FEET SOUTH-SOUTHEAST OF COUNTY ROAD 42 EASTBOUND LANE, 3.2 FEET NORTH-NORTHWEST OF A POWER POLE NUMBER TS4GSA, 2.2 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	953.574	0.016	290.650	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.525 12B = -91.516 09 = -91.460 03 = -91.260

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_4-DE9115-3S-21JUL2023.jpg	S	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_4-DE9115-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_N_4-DE9115-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36778.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36778.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 N 5

NGS Name: 1906 N 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DL5950
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES
Get Map

Table with columns: 1/4, Sec, Twp, Rng, Reference, Reference, Vert, Horz, Latitude, Longitude, Order, Order

Table with columns: Year Set, Last Recovery, Condition, Geodetic Usability, Photos, Bridge Num, F/P/R, Magnetic Properties

Table with columns: Monument Type, Disk Type, Mon. Agency

Description: (2009) Stamping: 1906 N 5 2009

1.5 MILES NORTH OF COATES, 2.0 MILES WEST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF TRUNK HIGHWAY 42 AND COUNTY ROAD 52, 58.0 FEET NORTH OF THE WESTBOUND COUNTY ROAD 42, 10.0 FEET SOUTHWEST OF A POWER POLE, 52.8 FEET EAST OF AN ENTRANCE TO THE DAKOTA COUNTY TECHNICAL COLLEGE EXTENDED, 10.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Table with columns: Vertical Datum, Orthometric (Feet), Orthometric (Meters), Survey Order/(Class), Project Info Year, Reference

Geoid Separations(ft): GEOID18 = -91.893 12B = -91.886 09 = -91.831 03 = -91.637

Geodetic Position and Dakota County Coordinates

Table with columns: Datum and Adjustment, Geodetic Positions, County (Feet), County (Meters), Ellipsoid Hgt (m), Surv, Project Info

Station Photos

Table with columns: Type, File Name, Dir, Date

** All station images can be viewed at: ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85847.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85847.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 P

NGS Name: 1906 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0988](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	113 N	18 W	443728.25	925939.83	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1906 P 2015

1.0 MILE NORTH OF HAMPTON, 1.65 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 107.3, 42.0 FEET EAST OF THE NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 0.15 MILE SOUTH OF 222ND STREET, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	979.808	0.016	298.646	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.455 12B = -94.445 09 = -94.390 03 = -94.229

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_P-DQ0988-3E-19OCT2022.jpg	E	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_P-DQ0988-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_P-DQ0988-1-06MAY2015.jpg		May 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103375.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103375.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 Q

NGS Name: 1906 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0985](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	20	114 N	18 W	443954.13	930032.09	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1906 Q 2015

4.5 MILES NORTH-NORTHWEST OF HAMPTON, 4.5 MILES NORTH-NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 110.25, 73.6 FEET NORTHEAST OF THE NORTHBOUND TRUNK HIGHWAY 52, 0.6 MILE SOUTHEAST OF COUNTY ROAD 62, 0.45 MILE NORTHWEST OF COUNTY ROAD 66, 74.6 FEET NORTH-NORTHEAST OF A CROSSOVER, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	878.971	0.016	267.911	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.786 12B = -93.786 09 = -93.717 03 = -93.533

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 39 54.13428	93 00 32.08963		580075.956	170551.548	176807.505	51984.216	239.323		2016	GPS3146
NAD83 (1996)	44 39 54.13414	93 00 32.09010		580075.922	170551.534	176807.495	51984.212	239.383	C	2016	HCOAT

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_Q-DQ0985-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_Q-DQ0985-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_Q-DQ0985-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103376.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103376.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 R

NGS Name: 1906 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DQ0982	Get Map
NGS Quad / Sta Num : 44093121/	
USGS Quad: COATES	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	18	114 N	18 W	444110.27	930109.21	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) Stamping: 1906 R 2015

6.0 MILES NORTH-NORTHWEST OF HAMPTON, 6.2 MILES NORTH-NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 111.85, 55.4 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 0.15 MILE SOUTH-SOUTHEAST OF 180TH STREET, 7.3 FEET SOUTHWEST OF A FENCE, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	919.063	0.016	280.131	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.330 12B = -93.343 09 = -93.277 03 = -93.074

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 41 10.27352	93 01 09.21097	577364.799	178252.702	175981.143	54331.532	251.681	2016	C	2016	GPS3146	
NAD83 (1996)	44 41 10.27340	93 01 09.21141	577364.768	178252.690	175981.133	54331.529	251.743	2016	C	2016	HCOAT	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_R-DQ0982-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_R-DQ0982-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_R-DQ0982-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103377.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103377.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 S

NGS Name: 1906 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0981](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	7	114 N	18 W	444201.21	930133.74	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 37 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1906 S 2015

1.0 MILE SOUTH-SOUTHEAST OF COATES, 0.8 MILE SOUTH-SOUTHEAST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 46 IN COATES, AT TRUNK HIGHWAY 52 MILEPOINT 112.8, 59.5 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 0.2 MILE SOUTHEAST OF 170TH STREET, 2.2 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	918.292	0.016	279.896	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.035 12B = -93.041 09 = -92.969 03 = -92.779

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 42 01.20706	93 01 33.74590	575573.741	183404.695	175435.227	55901.863	251.536			2016	GPS3146	
NAD83 (1996)	44 42 01.20694	93 01 33.74628	575573.714	183404.682	175435.219	55901.859	251.598	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_S-DQ0981-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_S-DQ0981-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_S-DQ0981-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103378.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103378.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 T

NGS Name: 1906 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0980](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	6	114 N	18 W	444248.64	930200.50	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 67 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1906 T 2015

IN COATES, 0.25 MILE NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 46 IN COATES, AT TRUNK HIGHWAY 52 MILEPOINT 113.8, ABOUT 60.0 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 29.7 FEET NORTHEAST OF CLAYTON AVENUE, AT THE NORTHWEST CORNER OF A PARKING LOT FOR HOUSE OF COATES BAR, 0.3 MILE NORTHWEST ON CLAYTON AVENUE FROM THE JUNCTION WITH BRANDEL DRIVE, 80.4 FEET NORTHWEST OF AN ENTRANCE, 13.7 FEET SOUTHEAST OF A POWER POLE, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	919.168	0.016	280.163	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.746 12B = -92.752 09 = -92.684 03 = -92.493

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 42 48.64487	93 02 00.50568	573624.110	188202.253	174840.979	57364.161	251.891	2016	C	GPS3146		
NAD83 (1996)	44 42 48.64474	93 02 00.50605	573624.084	188202.239	174840.970	57364.157	251.953	2016	C	HCOAT		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_T-DQ0980-3NE-21OCT2022.jpg	NE	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_T-DQ0980-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_T-DQ0980-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103379.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103379.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 U

NGS Name: 1906 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0978](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	115 N	18 W	444505.87	930201.20	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1906 U 2015

IN ROSEMOUNT, 0.9 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 52 MILEPOINT 116.45, 53.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 0.9 MILE NORTH OF COUNTY ROAD 42, 136.6 FEET SOUTH OF A RIGHT-OF-WAY POST, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	902.577	0.016	275.106	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.237 12B = -92.224 09 = -92.175 03 = -92.004

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 05.87506	93 02 01.19881	573525.754	202100.432	1748110000	61600.335	246.984			2016	GPS3146	
NAD83 (1996)	44 45 05.87496	93 02 01.19920	573525.726	202100.422	174810.991	61600.332	247.044	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_U-DQ0978-3E-16AUG2023.jpg	E	Aug 16, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_U-DQ0978-2-16AUG2023.jpg		Aug 16, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1906_U-DQ0978-1-16AUG2023.jpg		Aug 16, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103380.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103380.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 Y

NGS Name: 1906 Y

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1326](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	19	115 N	18 W	444512.00	930200.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2009	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1906 Y 1970

IN PINE BEND, AT TRUNK HIGHWAY 52 MILEPOINT 116.6, 1.75 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND 117TH STREET, 0.5 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 56 AND COUNTY ROAD 38, 70.0 FEET EAST OF TRUNK HIGHWAY 52.

Station Notes

CONCRETE IS IN POOR CONDITION DISK BENT DOWN ON NORTH SIDE MARK IS STABLE. NEW CONSTRUCTION IN THE AREA AND TIES FALL IN A DITCH ALONG TRUNK HIGHWAY 52 IN 2006. 3-17-2009 FOUND POSSIBLE WITNESS POST (NO SIGN) LYING DOWN IN VICINITY. DIPPED, NO RESPONSE. MOST LIKELY DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	911.281	0.016	277.759	0.005	2/1	2004	00000449
NGVD29	911.169	0.016	277.725	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.218 12B = -92.201 09 = -92.152 03 = -91.981

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6929.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6929.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1906 Z

NGS Name: 1906 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1327](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	24	115 N	19 W	444538.00	930203.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2009	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1906-Z 1970

IN PINE BEND, 1.0 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 56 AND COUNTY ROAD 38, 106.0 FEET WEST OF TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 STATION 611+98, IN THE SOUTHWEST CORNER OF THE WEST HEADWALL OF A 24.0 INCH DIAMETER CONCRETE CULVERT UNDER TRUNK HIGHWAY 52-TRUNK HIGHWAY 56.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	897.541	0.016	273.571	0.005	2/0	1991	00000025
NGVD29	897.393	0.016	273.526	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.116 12B = -92.103 09 = -92.054 03 = -91.890

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6930.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6930.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 A

NGS Name: 1907 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1317](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	17	27 N	22 W	445000.00	930458.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1971) **Stamping:** 1907-A 1971

IN INVER GROVE HEIGHTS, 0.2 MILE EAST-SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 3-TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, 70.0 FEET NORTH OF STATION 165+93, 17.0 FEET SOUTHWEST OF A MOTEL ENTRANCE, 8.0 FEET WEST OF THE END OF A SERVICE DRIVE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	875.113	0.016	266.735	0.005	2/0	1991	00000025
NGVD29	874.969	0.016	266.691	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.702 12B = -90.708 09 = -90.643 03 = -90.456

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6931.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6931.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 A 1

NGS Name: 1907 A 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1316](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	27 N	22 W	444959.00	930509.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO	5820		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (1996) **Stamping:** 1907 A 1 1971

IN INVER GROVE HEIGHTS, AT THE JUNCTION OF TRUNK HIGHWAY 3-TH 52 AND TRUNK HIGHWAY 55, IN THE SOUTHEAST CORNER OF A CURB ON TRUNK HIGHWAY 3 BRIDGE NUMBER 5820 OVER TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	863.679	0.016	263.250	0.005	2/0	1991	00000025
NGVD29	863.532	0.016	263.205	0.005	2	1972	L122 MINN

Geoid Separations(ft): GEOID18 = -90.659 12B = -90.669 09 = -90.600 03 = -90.413

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6932.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6932.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AA

NGS Name: 1907 AA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8630](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	34	27 N	22 W	444708.00	930203.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2009	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	SURVEY DISK	MNDT

Description: (1997) **Stamping:** 1907 AA 1997

0.50 MILE NORTH OF PINE BEND, 0.40 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 117TH STREET IN PINE BEND, AT TRUNK HIGHWAY MILEPOINT 118.85, 66.5 FEET EAST OF NORTHBOUND 55, 111.4 FEET SOUTHWEST OF A HIGH TENSION POWER POLE, 72.9 FEET SOUTH OF A TELEPHONE PEDESTAL, 54.5 FEET WEST OF TRAIL, 148.4 FEET SOUTHWEST OF BILLBOARD SIGNPOST, 194.0 FEET NORTH-NORTHWEST OF A HIGH TENSION POWER POLE, 2.3 FEET SOUTH OF A WITNESS POST.

Station Notes

2004 - THE POWER SQUADRON REPORTED THAT THE ROD IS BENT OVER, AND NO DISK IS PRESENT. THE FRONTAGE ROAD HAS BEEN REBUILT IN 2005, THE TIES FALL IN A NEW ROAD,
 3-17-2009 FOUND THE WITNESS POST SHEARED OFF AND THE MARK DESTROYED (NO DISK).

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	935.202	0.016	285.050	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -91.808 12B = -91.794 09 = -91.749 03 = -91.591

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AA-DE8630-3N-17MAR2009.jpg	N	Mar 17, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AA-DE8630-2-17MAR2009.jpg		Mar 17, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AA-DE8630-1-17MAR2009.jpg		Mar 17, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36797.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36797.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AA RESET

NGS Name: 1907 AA RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL5958](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	27 N	22 W	444708.24	930203.64	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2009) **Stamping:** 1907 AA 1997 2009

0.4 MILE NORTH OF PINE BEND, 0.4 MILE NORTH ALONG TRUNK HIGHWAYS 52 AND 55 FROM THE JUNCTION OF 117TH STREET IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 52 MILEPOINT 118.85, 66.5 FEET EAST OF NORTHBOUND LANE, 79.2 FEET SOUTH OF A TELEPHONE PEDESTAL, 63.1 FEET WEST OF FRONTAGE ROAD, 33.3 FEET WEST OF A HIGH TENSION POWER POLE NUMBER 008, 1.6 FEET SOUTH OF A WITNESS POST.

Station Notes

THE MARK IS 20.0 FEET BELOW A HIGH VOLTAGE POWER LINE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	934.611	0.016	284.870	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.804 12B = -91.791 09 = -91.745 03 = -91.588

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 08.24225	93 02 03.64465	573306.275	214492.966	174744.102	65377.587	256.884	2012	GPS2800			
NAD83 (2007)	44 47 08.24222	93 02 03.64578	573306.193	214492.962	174744.077	65377.586	256.901	2009	GPS2590			
NAD83 (1996)	44 47 08.24191	93 02 03.64527	573306.230	214492.931	174744.088	65377.576	256.956	2009	HINVR			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AA_RESET-DL5958-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AA_RESET-DL5958-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AA_RESET-DL5958-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85984.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85984.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AB

NGS Name: 1907 AB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8631](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	27 N	22 W	444746.92	930217.47	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2023	GOOD	Horz=NO Vert=YES	YES	19078	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1997) **Stamping:** 1907 AB 1997

1.1 MILES NORTH OF PINE BEND, IN AN ABUTMENT AT THE SOUTHWEST CORNER OF SOUTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19078 OVER THE RAILROAD TRACKS, 1.15 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 117TH STREET IN PINE BEND, AT TRUNK HIGHWAY 52 MILEPOINT 119.6, 25.2 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	895.238	0.016	272.869	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.627 12B = -91.614 09 = -91.568 03 = -91.404

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AB-DE8631-3N-15AUG2023.jpg	N	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AB-DE8631-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AB-DE8631-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36800.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36800.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AC

NGS Name: 1907 AC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8632](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	27 N	22 W	444806.32	930221.51	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2023	GOOD	Horz=NO Vert=NO	YES	UNK	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1997) **Stamping:** 1907 AC 1997

1.5 MILES NORTH OF PINE BEND, IN AN ABUTMENT AT THE SOUTHEAST CORNER OF A SOUTHBOUND TRUNK HIGHWAY 52 BRIDGE OVER THE RAILROAD TRACKS, 1.55 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 117TH STREET IN PINE BEND, AT TRUNK HIGHWAY 52 MILEPOINT 119.95, 25.0 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 52. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Station Notes

STAMPING VERY HARD TO READ. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	901.156	0.016	274.673	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.548 12B = -91.535 09 = -91.493 03 = -91.322

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AC-DE8632-3N-15AUG2023.jpg	N	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AC-DE8632-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AC-DE8632-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36794.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36794.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AD

NGS Name: 1907 AD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8633](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	22	27 N	22 W	444856.64	930239.33	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1994	2023	GOOD	Horz=NO Vert=NO	YES	19047	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (1997) **Stamping:** 1907 AD 1997

2.5 MILES SOUTH OF INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHWEST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19047 OVER COUNTY ROAD 56, 2.60 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 117TH STREET IN PINE BEND, AT TRUNK HIGHWAY MILEPOINT 121.0, 37.0 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 52, 3.6 FEET NORTH OF THE SOUTH END OF A RAILING. THE DISK WAS SET IN BRIDGE WHEN BUILT IN 1994 THEN STAMPED WHEN USED IN 1997. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT)) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	945.290	0.016	288.125	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.319 12B = -91.315 09 = -91.266 03 = -91.086

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AD-DE8633-3W-31AUG2011.jpg	W	Aug 31, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AD-DE8633-2-31AUG2011.jpg		Aug 31, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AD-DE8633-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36796.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36796.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AE

NGS Name: 1907 AE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8634](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	27 N	22 W	444855.82	930240.49	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1994	2023	GOOD	Horz=NO Vert=NO	YES	19048	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1907 AE 1997

2.0 MILES SOUTH OF INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF THE SOUTHBOUND TRUNK HIGHWAY 55 BRIDGE NUMBER 19048 OVER COUNTY ROAD 56, AT THE JUNCTION OF TRUNK HIGHWAY 52, TRUNK HIGHWAY 55 AND COUNTY ROAD 56, AT TRUNK HIGHWAY 52 MILEPOINT 121.0, 55.2 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1994 THEN STAMPED WHEN USED IN 1997. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT)) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	945.359	0.016	288.146	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.319 12B = -91.312 09 = -91.266 03 = -91.086

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AE-DE8634-3NW-15AUG2023.jpg	NW	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AE-DE8634-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AE-DE8634-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36795.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36795.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AF

NGS Name: 1907 AF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8635](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	16	27 N	22 W	444924.68	930324.91	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2023	GOOD	Horz=NO Vert=NO	YES	19023	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2009) **Stamping:** 1907 AF 1997

1.5 MILES SOUTHWEST OF INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 19023 OVER SOUTHBOUND TRUNK HIGHWAY 52, 18.6 FEET SOUTHWEST OF WESTBOUND TRUNK HIGHWAY 55, 65.4 FEET NORTHWEST OF THE SOUTHEAST END OF A BRIDGE RAILING, 2.0 FEET SOUTHEAST OF AN EXPANSION JOINT IN THE BRIDGE RAILING. THE DISK WAS SET IN BRIDGE WHEN BUILT IN 1992 THEN STAMPED WHEN USED IN 1997. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT)) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	943.981	0.016	287.726	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.082 12B = -91.082 09 = -91.027 03 = -90.843

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AF-DE8635-3NW-31AUG2011.jpg	NW	Aug 31, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AF-DE8635-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AF-DE8635-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36801.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36801.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AG

NGS Name: 1907 AG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8636](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	16	27 N	22 W	444926.77	930330.28	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2023	GOOD	Horz=NO Vert=NO	YES	19023	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (1997) **Stamping:** 1907 AG 1997

1.5 MILES SOUTHWEST OF INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE NORTHWEST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 19023 OVER SOUTHBOUND TRUNK HIGHWAY 52, 18.9 FEET SOUTHWEST OF WESTBOUND TRUNK HIGHWAY 55, 6.7 FEET SOUTHEAST OF THE NORTHWEST END OF A BRIDGE RAILING. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1992 THEN STAMPED WHEN USED IN 1997. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT)) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	945.129	0.016	288.076	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.060 12B = -91.060 09 = -91.004 03 = -90.820

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AG-DE8636-3SW-15AUG2023.jpg	SW	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AG-DE8636-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AG-DE8636-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36802.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36802.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 AH

NGS Name: 1907 AH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8637](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	16	27 N	22 W	444928.90	930340.07	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2023	GOOD	Horz=NO Vert=NO	YES	19024	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2009) **Stamping:** 1907 AH 1997

1.5 MILES SOUTHWEST OF INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF COUNTY ROAD 73/ BARNES AVENUE EAST BRIDGE NUMBER 19024 OVER TRUNK HIGHWAY 55, 2.5 FEET NORTH OF THE SOUTH END OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	959.513	0.016	292.460	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.023 12B = -91.023 09 = -90.964 03 = -90.781

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AH-DE8637-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AH-DE8637-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_AH-DE8637-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36806.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36806.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 B

NGS Name: 1907 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1318](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	27 N	22 W	444952.00	930422.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1997) **Stamping:** 1907-B 1971

IN INVER GROVE HEIGHTS, 0.5 MILE EAST-SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 3-TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, 72.0 FEET SOUTH OF HIGHWAY SOUTHBOUND STATION 187+44, 140.0 FEET EAST OF A POWER POLE WITH A TRANSFORMER, 100.0 FEET EAST OF AN ADVERTISING SIGN, 69.0 FEET EAST OF A RIGHT-OF-WAY MARKER, 63.0 FEET SOUTH-SOUTHWEST OF THE SOUTH END OF A CULVERT UNDER A HIGHWAY, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	920.969	0.016	280.712	0.005	2/0	1991	00000025
NGVD29	920.825	0.016	280.668	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.794 12B = -90.800 09 = -90.738 03 = -90.551

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6933.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6933.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 C

NGS Name: 1907 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1319](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	27 N	22 W	444938.00	930347.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2007	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1907 C 1971

IN INVER GROVE HEIGHTS, 1.3 MILES EAST-SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 3-TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, 170.0 FEET NORTH OF HIGHWAY NORTHBOUND STATION 216+08, 150.0 FEET EAST OF COUNTY ROAD 73 (BABCOCK TRAIL), ABOUT 200.0 FEET NORTH OF A RAMP NOSE, 65.0 FEET NORTH OF A RIGHT-OF-WAY FENCE, 82.5 FEET EAST-SOUTHEAST OF A DRIVEWAY TO 8336 BABCOCK TRAIL AT THE END OF A CUL-DE-SAC, 16.0 FEET EAST-SOUTHEAST OF A POWER POLE, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

2004 - POWER SQUADRON REPORTED THAT SOIL HAS ERODED MUCH OF THE DISK. POOR CONDITION. LEANING EAST ABOUT 5 DEGREES.

THE DISK WAS TURNED INTO THE OFFICE. THE STATION WAS DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	925.589	0.016	282.120	0.005	2/1	2004	00000449
NGVD29	925.602	0.016	282.124	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.945 12B = -90.948 09 = -90.889 03 = -90.702

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_C-PP1319-3E-29NOV2006.jpg	E	Nov 29, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_C-PP1319-2-29NOV2006.jpg		Nov 29, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_C-PP1319-1-29NOV2006.jpg		Nov 29, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6934.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6934.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 D

NGS Name: 1907 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1320](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	27 N	22 W	444929.00	930335.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1971) **Stamping:** 1907-D 1971

IN INVER GROVE HEIGHTS, 1.5 MILES EAST-SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 3-TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, 1.5 MILES NORTHWEST OF TRUNK HIGHWAY 56, 117.0 FEET NORTH OF NORTHBOUND STATION 225+81, 175.0 FEET NORTHEAST OF COUNTY ROAD 75 (COLLEGE TRAIL), OPPOSITE INVER GROVE VILLAGE HALL, 40.0 FEET NORTH OF FRONTAGE ROAD, 20.0 FEET WEST OF A POWER POLE, 1.0 FOOT WEST OF A POWER POLE, 1.0 FOOT SOUTH OF A WITNESS POST

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	934.411	0.016	284.809	0.005	2/0	1991	00000025
NGVD29	934.273	0.016	284.767	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.040 12B = -91.043 09 = -90.984 03 = -90.800

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6935.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6935.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 E

NGS Name: 1907 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1321](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	21	27 N	22 W	444908.00	930300.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2009	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1907-E 1971

IN INVER GROVE HEIGHTS, 1.0 MILE NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, 150.0 FEET EAST OF THE JUNCTION OF COUNTY ROAD 28 A-COURTHOUSE BOULEVARD AND COURTHOUSE COURT, 63.0 FEET SOUTH OF HIGHWAY SOUTHBOUND STATION 269+25.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	930.326	0.016	283.564	0.005	2/0	1991	00000025
NGVD29	930.195	0.016	283.524	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.214 12B = -91.214 09 = -91.161 03 = -90.978

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6936.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6936.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 F

NGS Name: 1907 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1325](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	27 N	22 W	444853.00	930233.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1907-F 1971

IN INVER GROVE HEIGHTS, 0.5 MILE NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, 65.0 FEET SOUTH OF HIGHWAY SOUTHBOUND STATION 288+38.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	939.017	0.016	286.213	0.005	2/0	1991	00000025
NGVD29	938.889	0.016	286.174	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.358 12B = -91.352 09 = -91.302 03 = -91.125

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6937.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6937.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 G

NGS Name: 1907 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0967](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	27 N	22 W	444650.32	930204.11	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1907 G 2015

IN INVER GROVE HEIGHTS, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 IN ROSEMOUNT, AT TRUNK HIGHWAY 52 MILEPOINT 118.5, 21.7 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 24.4 FEET WEST OF COURTHOUSE BOULEVARD, 0.15 MILE NORTH OF 117TH STREET EAST, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	933.072	0.016	284.401	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.863 12B = -91.847 09 = -91.801 03 = -91.647

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 50.32104	93 02 04.10575	573279.307	212677.815	174735.882	64824.328	256.392			2016	GPS3146	
NAD83 (1996)	44 46 50.32093	93 02 04.10619	573279.275	212677.804	174735.873	64824.324	256.454	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_G-DQ0967-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_G-DQ0967-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_G-DQ0967-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103381.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103381.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 H

NGS Name: 1907 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0966](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	27 N	22 W	444752.51	930216.70	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1907 H 2015

IN INVER GROVE HEIGHTS, 2.2 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 IN ROSEMOUNT, AT TRUNK HIGHWAY 52 MILEPOINT 119.7, 38.7 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 22.2 FEET WEST OF 111TH STREET EAST, 0.2 MILE NORTH OF BRIGGS STREET, 0.15 MILE SOUTH OF INVER GROVE TRAIL, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.308	0.016	271.976	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.611 12B = -91.598 09 = -91.555 03 = -91.388

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 52.51313	93 02 16.69964	572349.321	218973.425	174452.422	66743.233	244.040			2016	GPS3146	
NAD83 (1996)	44 47 52.51304	93 02 16.70008	572349.289	218973.415	174452.412	66743.231	244.101	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_H-DQ0966-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_H-DQ0966-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_H-DQ0966-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103382.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103382.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 J

NGS Name: 1907 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0965](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	22	27 N	22 W	444840.02	930224.15	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1907 J 2015

IN INVER GROVE HEIGHTS, 3.2 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 IN ROSEMOUNT, AT TRUNK HIGHWAY 52 MILEPOINT 120.6, 72.2 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 121.8 FEET WEST OF CAHILL AVENUE, 0.4 MILE SOUTHEAST OF COUNTY ROAD 56 (CONCORD BOULEVARD), 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	917.141	0.016	279.545	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.427 12B = -91.420 09 = -91.371 03 = -91.197

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 48 40.01987	93 02 24.14735	571795.914	223783.032	174283.743	68209.205	251.658			2016	GPS3146	
NAD83 (1996)	44 48 40.01972	93 02 24.14775	571795.885	223783.017	174283.734	68209.200	251.720	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_J-DQ0965-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_J-DQ0965-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_J-DQ0965-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103383.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103383.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 W

NGS Name: 1907 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1332](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	27 N	22 W	444807.06	930220.63	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	GOOD	Horz=NO Vert=NO	YES	9108	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1907 W 1970

IN INVER GROVE HEIGHTS, 0.4 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 52 BRIDGE NUMBER 9108 OVER A RAILROAD, 19.2 FEET EAST OF THE CENTERLINE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	901.284	0.016	274.712	0.005	2/1	2016	00000879
NGVD29	901.156	0.016	274.673	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.548 12B = -91.539 09 = -91.493 03 = -91.322

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_W-PP1332-3N-15AUG2023.jpg	N	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_W-PP1332-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_W-PP1332-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6938.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6938.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 X

NGS Name: 1907 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1331](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	27 N	22 W	444747.57	930215.93	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	GOOD	Horz=NO Vert=NO	YES	9109	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1907 X 1970

IN INVER GROVE HEIGHTS, 0.5 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52/TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 52 NORTHBOUND BRIDGE NUMBER 9109 OVER A RAILROAD, AT TRUNK HIGHWAY 52 STATION 215+59, 18.8 FEET EAST OF THE NORTHBOUND CENTERLINE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	893.640	0.016	272.382	0.005	2/1	2016	00000879
NGVD29	893.515	0.016	272.344	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.630 12B = -91.617 09 = -91.571 03 = -91.407

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_X-PP1331-3N-15AUG2023.jpg	N	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_X-PP1331-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1907_X-PP1331-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6939.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6939.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 Y

NGS Name: 1907 Y

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1330](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	27 N	22 W	444714.00	930203.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1907 Y 1970

IN INVER GROVE HEIGHTS, 0.3 MILE NORTH OF 117TH STREET ON TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, 300.0 FEET SOUTH OF DRIVES EAST AND WEST, 85.0 FEET EAST OF TRUNK HIGHWAY 52 STATION 258+56, 19.0 FEET SOUTH OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST, NEW CONSTRUCTION BY NORTHERN STATES POWER (NSP), WATER AND GAS, A POLE LINE REMOVED BY NORTHERN STATES POWER (NSP).

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	923.505	0.016	281.485	0.005	2/0	1991	00000025
NGVD29	923.364	0.016	281.442	0.005	2	1972	L123 MINN

Geoid Separations(ft): GEOID18 = -91.785 12B = -91.771 09 = -91.726 03 = -91.568

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6940.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6940.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1907 Z

NGS Name: 1907 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1329](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	27 N	22 W	444644.00	930204.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1907 Z 1970

IN INVER GROVE HEIGHTS, TRUNK HIGHWAY 52 MILEPOINT 118.35, 1.0 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 55, 150.0 FEET SOUTH OF 117TH STREET, 65.0 FEET EAST OF TRUNK HIGHWAY 52 STATION 283+55, 10.0 FEET SOUTHWEST OF THE SOUTHEAST CORNER OF A HISTORICAL MARKER.

Station Notes

DESTROYED DUE TO NEW CONSTRUCTION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	933.748	0.016	284.607	0.005	2/1	2004	00000449
NGVD29	933.604	0.016	284.563	0.005	2	1972	L123 MINN

Geoid Separations(ft): GEOID18 = -91.886 12B = -91.870 09 = -91.824 03 = -91.670

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6941.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6941.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 A

NGS Name: 1908 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1298](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	28 N	22 W	445200.00	930455.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1908 A 1977

IN INVER GROVE HEIGHTS, 0.75 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 110, IN THE SOUTHWEST CORNER OF A TRUNK HIGHWAY 52 BOX CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	960.041	0.016	292.621	0.005	2/0	1991	00000025
NGVD29	959.867	0.016	292.568	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.426 09 = -90.377 03 = -90.177

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6942.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6942.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 B

NGS Name: 1908 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4427](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	32	28 N	22 W	445220.26	930449.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES	19832	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1908 B 1989

IN INVER GROVE HEIGHTS, AT THE JUNCTION OF COUNTY HIGHWAY 3 AND INTERSTATE HIGHWAY 494, IN THE TOP OF A CONCRETE RAILING AT THE SOUTHEAST CORNER OF COUNTY HIGHWAY 3 BRIDGE NUMBER 19832 OVER INTERSTATE HIGHWAY 494, 23.0 FEET EAST OF NORTHBOUND COUNTY HIGHWAY 3, 9.3 FEET NORTHWEST OF THE SOUTH BRIDGE FENCE, 23.0 FEET NORTH OF THE SOUTHEAST CORNER OF THE EAST BRIDGE RAILING, 6.6 FEET WEST OF A BRIDGE FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	996.494	0.016	303.732	0.005	2/1	2020	00000955
NGVD29	996.350	0.016	303.688	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.390 12B = -90.397 09 = -90.351 03 = -90.147

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_B-AH4427-3N-03AUG2023.jpg	N	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_B-AH4427-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_B-AH4427-1-13OCT2011.jpg		Oct 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6943.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6943.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 C

NGS Name: 1908 C

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	28 N	22 W	445224.43	930450.58	2	

NGS ACRN: AH4428	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19832	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1908 C 1989

IN SUNFISH LAKE, AT THE JUNCTION OF COUNTY HIGHWAY 3 AND INTERSTATE HIGHWAY 494, IN THE TOP OF A RAILING AT THE NORTHWEST CORNER OF COUNTY HIGHWAY 3 BRIDGE NUMBER 19832 OVER INTERSTATE HIGHWAY 494, 23.0 FEET WEST OF SOUTHBOUND COUNTY HIGHWAY 3, 23.5 FEET SOUTH-SOUTHEAST OF LIGHT STANDARD NUMBER SSE-31, 1.5 FEET SOUTH OF THE NORTHWEST CORNER OF THE WEST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	986.868	0.016	300.798	0.005	2/1	2000	00000359
NGVD29	986.717	0.016	300.752	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.377 12B = -90.384 09 = -90.341 03 = -90.138

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_C-AH4428-3W-03AUG2023.jpg	W	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_C-AH4428-2-13OCT2011.jpg		Oct 13, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_C-AH4428-1-13OCT2011.jpg		Oct 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6944.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6944.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 D

NGS Name: 1908 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8552](#) [Get Map](#)
NGS Quad / Sta Num : 44093112/
USGS Quad: INVER GROVE HEIGHTS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	32	28 N	22 W	445209.02	930449.04	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1908 D 2014

IN INVER GROVE HEIGHTS, 0.25 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND INTERSTATE HIGHWAY 494 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 3 MILEPOINT 43.25, 37.7 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 3, 50.6 FEET NORTH OF UPPER 55TH STREET EAST, 28.4 FEET SOUTHEAST OF LIGHT POLE NUMBER HS8E28, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	996.205	0.016	303.644	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.413 12B = -90.420 09 = -90.374 03 = -90.170

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 52 09.01836	93 04 49.03497	561288.841	244917.496	171081.181	74651.002	276.105			2015	GPS3101	
NAD83 (1996)	44 52 09.01833	93 04 49.03535	561288.813	244917.493	171081.173	74651.001	276.169	C		2015	HFARM2	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_D-DP8552-3E-03AUG2023.jpg	E	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_D-DP8552-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_D-DP8552-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101783.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101783.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 E

NGS Name: 1908 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8553](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	5	27 N	22 W	445053.05	930506.34	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	NOT FOUND	Horz=NO Vert=NO	YES		RECESSED 40 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1908 E 2015

IN INVER GROVE HEIGHTS, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 3 MILEPOINT 41.65, 64.6 FEET EAST OF TRUNK HIGHWAY 3, 62.5 FEET NORTH OF COUNTY ROAD 26 (70TH STREET EAST), 14.6 FEET EAST OF A FIRE HYDRANT, 1.5 FEET WEST OF A WITNESS POST. NEW ROUND-A-BOUT IN PLACE, MARK BELIEVED TO BE IN PLACE, BUT DOWN ABOUT 3 TO 4 FEET.

Station Notes

NEW ROUND-A-BOUT IN PLACE, MARK BELIEVED TO BE IN PLACE, BUT DOWN ABOUT 3 TO 4 FEET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	897.626	0.016	273.597	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.538 12B = -90.548 09 = -90.485 03 = -90.292

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 53.04560	93 05 06.34219	560064.212	237219.362	170707.913	72304.606	246.008			2015	GPS3101	
NAD83 (1996)	44 50 53.04556	93 05 06.34256	560064.185	237219.358	170707.905	72304.605	246.069	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_E-DP8553-3N-08AUG2023.jpg	N	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_E-DP8553-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_E-DP8553-1-01APR2015.jpg		Apr 1, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103174.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103174.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 F

NGS Name: 1908 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8554](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NW	5	27 N	22 W	445135.52	930507.44	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1908 F 2015

IN INVER GROVE HEIGHTS, 1.8 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 3 MILEPOINT 42.45, 42.8 FEET EAST OF TRUNK HIGHWAY 3, 64.3 FEET NORTH OF DRIVEWAYS 6180-6190, 5.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	902.731	0.016	275.153	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.436 12B = -90.446 09 = -90.390 03 = -90.193

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 51 35.51832	93 05 07.43535	559973.234	241520.789	170680.183	73615.684	247.607	2015	GPS3101			
NAD83 (1996)	44 51 35.51829	93 05 07.43571	559973.208	241520.785	170680.175	73615.683	247.669	2015	HFARM2			

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_F-DP8554-3E-03AUG2023.jpg	E	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_F-DP8554-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_F-DP8554-1-01APR2015.jpg		Apr 1, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103175.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103175.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 G

NGS Name: 1908 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ5263](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	29	28 N	22 W	445326.59	930454.22	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** 1908 G 2016

IN WEST ST. PAUL, AT THE JUNCTION OF TRUNK HIGHWAY 952A (ROBERT STREET) AND WEST MARIE AVENUE IN WEST ST. PAUL, ABOUT 300.0 FEET WEST OF ROBERT STREET, 43.0 FEET SOUTH OF WEST MARIE AVENUE, 28.0 FEET WEST OF AN ENTRANCE TO A HOLIDAY STORE, 8.0 FEET WEST OF ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1029.089	0.016	313.667	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.256 12B = -90.259 09 = -90.216 03 = -90.023

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 26.59145	93 04 54.21910	560892.799	252773.087	170960.467	77045.391	286.159			2017	GPS3178	
NAD83 (1996)	44 53 26.59128	93 04 54.21939	560892.778	252773.070	170960.461	77045.386	286.222		C	2017	HPIGS	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_G-DQ5263-3S-03AUG2023.jpg	S	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_G-DQ5263-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_G-DQ5263-1-03NOV2016.jpg		Nov 3, 2016

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106393.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106393.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 H

NGS Name: 1908 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ5264](#) [Get Map](#)
NGS Quad / Sta Num : 44093111/
USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	28 N	22 W	445405.15	930454.57	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 61 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** 1908 H 2016

IN WEST ST. PAUL, 0.1 MILE WEST ALONG THOMPSON AVENUE FROM THE JUNCTION OF THOMPSON AVENUE AND TRUNK HIGHWAY 952A (ROBERT STREET) IN WEST ST. PAUL, 36.0 FEET SOUTH OF THOMPSON AVENUE, ABOUT 350.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 952A, 55.0 FEET EAST OF LIVINGSTON STREET, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	971.930	0.016	296.245	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.200 12B = -90.200 09 = -90.151 03 = -89.964

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 54 05.15546	93 04 54.57411	560855.976	256678.824	170949.243	78235.862	268.751	2017	C	2017	GPS3178	
NAD83 (1996)	44 54 05.15530	93 04 54.57439	560855.956	256678.808	170949.237	78235.857	268.813	2017	C	2017	HPIGS	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_H-DQ5264-3W-08AUG2023.jpg	W	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_H-DQ5264-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_H-DQ5264-1-08AUG2023.jpg		Aug 8, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106305.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106305.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1908 J

NGS Name: 1908 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ5265](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
SW	17	28 N	22 W	445444.10	930451.13	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2016	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 69 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) Stamping: 1908 J 2016

IN WEST ST. PAUL, AT THE JUNCTION OF TRUNK HIGHWAY 952A AND BUTLER AVENUE IN WEST ST. PAUL, 38.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 952A, 53.0 FEET SOUTH OF EASTBOUND BUTLER AVENUE, 17.2 FEET WEST OF A STOP SIGN LIGHT, 13.0 FEET SOUTH OF THE SOUTH CORNER UTILITIES BOX, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	995.487	0.016	303.425	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.161 12B = -90.161 09 = -90.108 03 = -89.924

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 54 44.09858	93 04 51.12582	561092.771	260623.760	171021.419	79438.281	275.939	2017	GPS3178			
NAD83 (1996)	44 54 44.09843	93 04 51.12610	561092.751	260623.744	171021.413	79438.276	276.002	C	2017	HPIGS		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_J-DQ5265-3SW-08AUG2023.jpg	SW	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_J-DQ5265-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1908_J-DQ5265-1-12OCT2016.jpg		Oct 12, 2016

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106308.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106308.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 A

NGS Name: 1909 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1312](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	12	27 N	23 W	445045.00	930720.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1909 A 1971

IN EAGAN, 2.0 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, 0.2 MILE EAST OF TRUNK HIGHWAY 149, 28.0 FEET NORTH OF TRUNK HIGHWAY 55 SOUTHBOUND STATION 54+43, IN TRUNK HIGHWAY 55 MEDIAN.

Station Notes

THE TIES FALL IN A TURN LANE FROM NORTHBOUND TRUNK HIGHWAY 55 TO WESTBOUND TRUNK HIGHWAY 149, CONSIDER DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	844.339	0.016	257.355	0.005	2/1	2004	00000449
NGVD29	844.214	0.016	257.317	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.213 12B = -90.226 09 = -90.147 03 = -89.970

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6945.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6945.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 A 1

NGS Name: 1909 A 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1313](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	12	27 N	23 W	445038.98	930641.06	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2007	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1909 A 1 1971

2.4 MILES NORTHWEST OF INVER GROVE HEIGHTS, 1.5 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 3, 0.8 MILE SOUTH OF THE SOUTH JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 49, 80.0 FEET NORTH OF NORTHBOUND TRUNK HIGHWAY 55, AT TRUNK HIGHWAY 55 STATION 79+29, 114.0 FEET WEST OF A HIGH TENSION POWER POLE, 45.0 FEET WEST OF AN ENTRANCE NORTH, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes
THE MARK WAS DESTROYED THE DISK WAS RECOVERED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	816.288	0.016	248.805	0.005	2/1	2004	00000449
NGVD29	816.140	0.016	248.760	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.321 12B = -90.331 09 = -90.259 03 = -90.079

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_A_1-PP1313-3N-29NOV2006.jpg	N	Nov 29, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_A_1-PP1313-2-29NOV2006.jpg		Nov 29, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_A_1-PP1313-1-29NOV2006.jpg		Nov 29, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6946.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6946.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 B

NGS Name: 1909 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1314](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	7	27 N	22 W	445024.00	930602.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1996) **Stamping:** 1909-B

IN EAGAN, 0.9 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 3-TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, 36.0 FEET NORTH OF TRUNK HIGHWAY 55 SOUTHBOUND STATION 111+60, IN TRUNK HIGHWAY 55 MEDIAN, 19.0 FEET WEST OF THE WEST EDGE OF COUNTY ROAD 63 (AGENTIA TRAIL), 1.0 FOOT SOUTH OF A WITNESS POST, IN 1996 DISTRICT 9 SURVEYS COULD NOT FIND THE STATION.

Station Notes

RECOVERED WITNESS POST, BUT NO ROD AND DISK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	888.660	0.016	270.864	0.005	2/0	1991	00000025
NGVD29	888.502	0.016	270.816	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.459 12B = -90.469 09 = -90.397 03 = -90.216

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6947.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6947.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 B 1

NGS Name: 1909 B 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1315](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	27 N	22 W	445006.00	930531.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1997) **Stamping:** 1909 B 1 1971

IN INVER GROVE HEIGHTS, 0.3 MILE WEST-NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55, 100.0 FEET EAST OF AN ENTRANCE TO A BARN, 71.0 FEET SOUTH OF TRUNK HIGHWAY 55 SOUTHBOUND STATION 142+74, 25.0 FEET SOUTHEAST OF AN ENTRANCE TO BUILDING 1304 (G E BRODERSON FARM), 46.0 FEET WEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	858.197	0.016	261.579	0.005	2/0	1991	00000025
NGVD29	858.049	0.016	261.534	0.005	2	1972	L122 MINN

Geoid Separations(ft): GEOID18 = -90.590 12B = -90.600 09 = -90.531 03 = -90.344

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6948.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6948.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 C 1

NGS Name: 1909 C 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1290](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445300.00	931009.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	6268		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1909 C 1 1970

IN MENDOTA, NEAR THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55, IN THE NORTHWEST CORNER OF WESTBOUND TRUNK HIGHWAY 55 BRIDGE NUMBER 6268 OVER A RAILROAD.

Station Notes

2004 - THE POWER SQUADRON REPORTED BRIDGE REPLACED. A NEW BRIDGE CROSSES THE MINNESOTA RIVER, THERE IS NO LONGER A SEPARATE BRIDGE FOR THE RAILROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	824. 802	0. 016	251. 400	0. 005	2/0	1991	00000025
NGVD29	824. 601	0. 016	251. 339	0. 005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.668 12B = -89.668 09 = -89.583 03 = -89.436

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6949.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6949.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 C 2

NGS Name: 1909 C 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1289](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445300.00	931010.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	19029		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1909 C 2 1970

IN MENDOTA, IN THE SOUTHEAST CORNER OF WESTBOUND TRUNK HIGHWAY 55 BRIDGE NUMBER 6268 OVER A RAILROAD.

Station Notes

2004 - POWER SQUADRON REPORTED THAT BRIDGE NUMBER 19029 WAS REPLACED IN 1994 BY BRIDGE NUMBER 19087. MARK DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	834.634	0.016	254.397	0.005	2/0	1991	00000025
NGVD29	834.437	0.016	254.337	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.659 12B = -89.659 09 = -89.573 03 = -89.422

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6950.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6950.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 D

NGS Name: 1909 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1291](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445301.00	931016.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	4190		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1909 D 1970

IN MENDOTA, NEAR THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 4190 (MENDOTA BRIDGE OVER THE MINNESOTA RIVER).

Station Notes

2004 - POWER SQUADRON REPORTED THAT BRIDGE 4190 WAS REBUILT IN 1993. MARK DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	811.468	0.016	247.336	0.005	2/0	1991	00000025
NGVD29	811.268	0.016	247.275	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.649 12B = -89.645 09 = -89.560 03 = -89.413

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6951.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6951.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 E

NGS Name: 1909 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1293](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	28 N	23 W	445241.26	930952.41	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2007	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 5 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1909 E 1971

IN MENDOTA, 0.6 MILE SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55 THEN 250.0 FEET WEST ON ACACIA BOULEVARD, 148.0 FEET WEST OF BRIDGE NUMBER 19090, 55.1 FEET SOUTH OF ACACIA BOULEVARD, 0.5 FOOT NORTH OF A WITNESS POST.

Station Notes

THE STAMPING IS MARRED, THE REFERENCE POSITION WAS TAKEN 60.0 FEET NORTH OF THE STATION BY USING THE REAL TIME REFERENCE NETWORK (RTRN). THE DISK WAS TURNED IN TO THE OFFICE. THE MARK WAS DESTROYED, AND THE CAP WAS RECOVERED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	905.330	0.016	275.945	0.005	2/0	1991	00000025
NGVD29	905.129	0.016	275.884	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.711 12B = -89.711 09 = -89.629 03 = -89.478

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_E-PP1293-3S-21NOV2006.jpg	S	Nov 21, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_E-PP1293-2-21NOV2006.jpg		Nov 21, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_E-PP1293-1-21NOV2006.jpg		Nov 21, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6952.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6952.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 F

NGS Name: 1909 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1305](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445159.92	930919.93	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 18 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1909 F 1971

IN MENDOTA, 1.3 MILES SOUTH ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 13 IN MENDOTA, 0.35 MILE NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND INTERSTATE HIGHWAY 494, 50.0 FEET WEST OF TRUNK HIGHWAY 55, 40.0 FEET EAST OF AN OLD RAILROAD BED, 38.0 FEET NORTH OF AN OLD TEMPCO MANUFACTURING COMPANY ENTRANCE, 15.0 FEET NORTH OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.171	0.016	266.143	0.005	2/1	2020	00000955
NGVD29	873.033	0.016	266.101	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.819 12B = -89.823 09 = -89.741 03 = -89.583

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>						
NAD83 (2011)	44 51 59.91798	93 09 19.93014	541780.081	243948.182	165134.899	74355.555	238.760		2014	GPS2981						
NAD83 (1986)	44 51 59.91050	93 09 19.92669	541780.330	243947.425	165134.975	74355.324	C	1991	H1991							

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_F-PP1305-3NE-02AUG2023.jpg	NE	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_F-PP1305-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_F-PP1305-1-28MAY2013.jpg		May 28, 2013

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6953.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6953.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 G

NGS Name: 1909 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1306](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	27 N	23 W	445109.00	930748.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (2010)

Stamping: 1909 G 1971

IN EAGAN, 3.1 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55, AT THE JUNCTION OF TRUNK HIGHWAY 49 AND TRUNK HIGHWAY 55, 100.0 FEET SOUTHEAST OF TRUNK HIGHWAY 49 SOUTHBOUND LANE, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 55 BOX CULVERT.

Station Notes

IN 1995 DISTRICT 9 SURVEYS REPORTED BOX CULVERT IS NO LONGER IN PLACE AND STATION HAS BEEN DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	860.615	0.016	262.316	0.005	2/0	1991	00000025
NGVD29	860.438	0.016	262.262	0.005	2	1972	L122 MINN

Geoid Separations(ft): GEOID18 = -90.118 12B = -90.128 09 = -90.049 03 = -89.875

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6954.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6954.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 H

NGS Name: 1909 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4409](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445144.38	930903.51	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES	19827	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1909 H 1988

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 55 AND INTERSTATE HIGHWAY 494, IN THE TOP OF RAILING AT THE NORTHWEST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 19827 OVER INTERSTATE HIGHWAY 494, AT TRUNK HIGHWAY 55 MILEPOINT 200.9, 32.0 FEET WEST OF EASTBOUND TRUNK HIGHWAY 55, 20.5 FEET SOUTHEAST OF THE NORTHWEST CORNER OF THE WEST RAILING OF A BRIDGE, 0.85 FOOT EAST OF AN END BRIDGE FENCE POST. NEW BRIDGE IN 2022.

Station Notes
NEW BRIDGE IN 2022.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	891.488	0.016	271.726	0.005	2/1	2016	00000879
NGVD29	891.307	0.016	271.671	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.875 12B = -89.878 09 = -89.800 03 = -89.636

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_H-AH4409-3W-28MAY2013.jpg	W	May 28, 2013
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_H-AH4409-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_H-AH4409-1-28MAY2013.jpg		May 28, 2013

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6955.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6955.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 J

NGS Name: 1909 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4408](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	27 N	23 W	445133.58	930848.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES	19819	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1909 J 1988

IN EAGAN, IN THE TOP OF A RAILING AT THE NORTHWEST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 19819 OVER INTERSTATE HIGHWAY 35E, AT TRUNK HIGHWAY 55 MILEPOINT 201.2, 24.5 FEET NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 77.5 FEET SOUTHEAST OF THE END POST IN A BRIDGE FENCE, 77.5 FEET SOUTHEAST OF THE NORTHWEST CORNER OF THE NORTH RAILING OF A BRIDGE, 6.3 FEET SOUTHWEST OF A BRIDGE FENCE. NEW RAILING IN 2022.

Station Notes

NEW RAILING IN 2022.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	888.955	0.016	270.954	0.005	2/1	2020	00000955
NGVD29	888.774	0.016	270.899	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.924 12B = -89.931 09 = -89.849 03 = -89.682

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_J-AH4408-3NE-28MAY2013.jpg	NE	May 28, 2013
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_J-AH4408-2-28MAY2013.jpg		May 28, 2013
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_J-AH4408-1-28MAY2013.jpg		May 28, 2013

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6956.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6956.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 K

NGS Name: 1909 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4407](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	27 N	23 W	445132.24	930847.75	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES	19819	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1909 K 1988

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 55 AND INTERSTATE HIGHWAY 35E, IN THE TOP OF A RAILING AT THE SOUTHWEST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 19819 OVER INTERSTATE HIGHWAY 35E, 32.5 FEET SOUTHWEST OF EASTBOUND TRUNK HIGHWAY 55, 51.3 FEET SOUTHEAST OF THE END POST IN A BRIDGE NUMBER FENCE, 51.4 FEET EAST OF THE SOUTHWEST CORNER OF THE SOUTH BRIDGE NUMBER RAILING. NEW RAILING IN 2022.

Station Notes
NEW RAILING IN 2022.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	891.025	0.016	271.585	0.005	2/1	2004	00000449
NGVD29	890.845	0.016	271.530	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.924 12B = -89.931 09 = -89.852 03 = -89.685

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_K-AH4407-3S-20NOV2006.jpg	S	Nov 20, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_K-AH4407-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_K-AH4407-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6957.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6957.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 L

NGS Name: 1909 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4406](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	2	27 N	23 W	445130.21	930842.53	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES	19819	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1909 L 1988

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 55 AND INTERSTATE HIGHWAY 35E, IN TOP OF A RAILING AT THE SOUTHEAST CORNER OF EASTBOUND TRUNK HIGHWAY 55 BRIDGE NUMBER 19819 OVER INTERSTATE HIGHWAY 35E, 32.5 FEET SOUTHWEST OF EASTBOUND TRUNK HIGHWAY 55, 29.6 FEET NORTHWEST OF THE END POST IN A BRIDGE FENCE, 29.4 FEET NORTHWEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING OF A BRIDGE. NEW BRIDGE RAILING BUILT IN 2022.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.249	0.016	270.434	0.005	2/1	2000	00000359
NGVD29	887.068	0.016	270.379	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.941 12B = -89.947 09 = -89.865 03 = -89.701

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_L-AH4406-3S-20NOV2006.jpg	S	Nov 20, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_L-AH4406-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_L-AH4406-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6958.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6958.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 M

NGS Name: 1909 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4405](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	2	27 N	23 W	445131.25	930842.23	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES	19819	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1909 M 1988

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 55 AND INTERSTATE HIGHWAY 35E, IN THE TOP OF A RAILING AT THE NORTHEAST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 19819 OVER INTERSTATE HIGHWAY 35E, AT TRUNK HIGHWAY MILEPOINT 201.3, 25.4 FEET NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 21.2 FEET WEST-NORTHWEST OF A BRIDGE FENCE, 20.5 FEET NORTHWEST OF THE NORTHEAST CORNER OF THE NORTH BRIDGE RAILING. NEW RAILING IN 2022.

Station Notes
NEW RAILING IN 2022.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.000	0.016	270.358	0.005	2/1	2020	00000955
NGVD29	886.835	0.016	270.308	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.941 12B = -89.947 09 = -89.865 03 = -89.698

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_M-AH4405-3N-02AUG2023.jpg	N	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_M-AH4405-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_M-AH4405-1-28MAY2013.jpg		May 28, 2013

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6959.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6959.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 N

NGS Name: 1909 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8638](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	127 N	22 W	444951.23	930416.13	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2007	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 9 FT)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1909 N 1997

IN INVER GROVE HEIGHTS, 0.80 MILE EAST-SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55, 82.5 FEET NORTH-NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 16.2 FEET SOUTH-SOUTHWEST OF A CYCLONE FENCE, 32.8 FEET EAST OF A CYCLONE FENCE CORNER, 1.3 FEET WEST OF A WITNESS POST.

Station Notes
THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	929.555	0.016	283.329	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -90.843 12B = -90.850 09 = -90.787 03 = -90.600

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_N-DE8638-3N-29NOV2006.jpg	N	Nov 29, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_N-DE8638-2-29NOV2006.jpg		Nov 29, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_N-DE8638-1-29NOV2006.jpg		Nov 29, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36804.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36804.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 N RESET

NGS Name: 1909 N RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0964](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	17	127 N	22 W	444951.23	930416.13	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1909 N RESET 2011

IN INVER GROVE HEIGHTS, 0.8 MILE EAST-SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55, AT TRUNK HIGHWAY 55 MILEPOINT 205.5, 82.5 FEET NORTH-NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 16.2 FEET SOUTH-SOUTHWEST OF A CYCLONE FENCE, 32.8 FEET EAST OF A CYCLONE FENCE CORNER, 1.3 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	929.434	0.016	283.292	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.843 12B = -90.850 09 = -90.787 03 = -90.600

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_N_RESET-DQ0964-3NW-02AUG2023.jpg	NW	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_N_RESET-DQ0964-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_N_RESET-DQ0964-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94558.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94558.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 P

NGS Name: 1909 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8639](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	27 N	22 W	445002.86	930510.54	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1993	2023	GOOD	Horz=NO Vert=NO	YES	19045	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (1997) **Stamping:** 1909 P 1997

1.2 MILES NORTHEAST OF WESCOTT, IN A BRIDGE RAILING IN THE NORTHEAST CORNER OF TRUNK HIGHWAY 3 BRIDGE NUMBER 19045 OVER TRUNK HIGHWAY 55, AT TRUNK HIGHWAY 3 MILEPOINT 123.45, 42.4 FEET EAST OF TRUNK HIGHWAY 3 MEDIAN, 29.8 FEET SOUTH OF THE NORTH END OF A BRIDGE RAILING, THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1993 THEN STAMPED IN 1997. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	874.910	0.016	266.673	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -90.653 12B = -90.663 09 = -90.594 03 = -90.407

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_P-DE8639-3E-01AUG2023.jpg	E	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_P-DE8639-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_P-DE8639-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36798.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36798.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 Q

NGS Name: 1909 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8640](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	7	27 N	22 W	445028.72	930613.39	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1993	2007	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1909 Q 1997

1.6 MILES NORTH OF WESCOTT, 1.05 MILES EAST-SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND DODD ROAD IN EAGAN, 88.0 FEET SOUTH-SOUTHWEST OF TRUNK HIGHWAY 55 EASTBOUND LANE, 38.6 FEET EAST-NORTHEAST OF A POWER POLE, 103.0 FEET WEST-SOUTHWEST OF A POWER POLE, 12.0 FEET NORTH-NORTHEAST OF A FENCE, 12.0 FEET NORTH-NORTHEAST OF A WITNESS POST, 0.30 FOOT BELOW THE GROUND.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	877.869	0.016	267.575	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -90.413 12B = -90.426 09 = -90.354 03 = -90.170

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_Q-DE8640-3S-29NOV2006.jpg	S	Nov 29, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_Q-DE8640-2-29NOV2006.jpg		Nov 29, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_Q-DE8640-1-29NOV2006.jpg		Nov 29, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36793.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36793.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 Q RESET

NGS Name: 1909 Q RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9200](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	7	27 N	22 W	445028.72	930613.39	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 8 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1909 Q RESET 2011

IN INVER GROVE HEIGHTS, 1.05 MILES EAST-SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND DODD ROAD IN EAGAN, 103.0 FEET WEST-SOUTHWEST OF A POWER POLE, 88.0 FEET SOUTH-SOUTHWEST OF EASTBOUND TRUNK HIGHWAY 55, 38.6 FEET SOUTHEAST OF A POWER POLE, 12.0 FEET SOUTH-SOUTHWEST OF A FENCE, 12.0 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	877.652	0.016	267.509	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.413 12B = -90.426 09 = -90.354 03 = -90.170

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_Q_RESET-DP9200-3S-02AUG2023.jpg	S	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_Q_RESET-DP9200-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_Q_RESET-DP9200-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94768.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94768.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 R

NGS Name: 1909 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8642](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	27 N	22 W	445000.33	930511.83	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1993	2023	GOOD	Horz=NO Vert=NO	YES	19045	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (1997) **Stamping:** 1909 R 1997

1.2 MILES NORTHEAST OF WESCOTT, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 3 BRIDGE NUMBER 19045 OVER TRUNK HIGHWAY 55, AT TRUNK HIGHWAY 3 MILEPOINT 123.4, 31.6 FEET EAST OF TRUNK HIGHWAY 3, 23.6 FEET NORTH OF THE SOUTH END OF A BRIDGE RAILING. THE WAS DISK SET IN THE BRIDGE WHEN BUILT IN 1993 THEN STAMPED WHEN USED IN 1997. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	869.513	0.016	265.028	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -90.656 12B = -90.666 09 = -90.597 03 = -90.410

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_R-DE8642-3E-01AUG2023.jpg	E	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_R-DE8642-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_R-DE8642-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36803.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36803.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 S

NGS Name: 1909 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8641](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	12	27 N	23 W	445045.00	930716.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1909 S 1997

IN EAGAN, 0.10 MILE SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND DODD ROAD, AT TRUNK HIGHWAY 55 MILEPOINT 202.8, 84.1 FEET NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 91.7 FEET SOUTH-SOUTHEAST OF A STEEL HIGH TENSION POLE, 3.0 FEET NORTH OF A WITNESS POST.

Station Notes

DISK LEANING NORTHEAST ABOUT 10 DEGREES.
THE DISK TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	854.053	0.016	260.316	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -90.220 12B = -90.229 09 = -90.154 03 = -89.977

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_S-DE8641-3N-29NOV2006.jpg	N	Nov 29, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_S-DE8641-2-29NOV2006.jpg		Nov 29, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_S-DE8641-1-29NOV2006.jpg		Nov 29, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36805.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36805.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 S RESET

NGS Name: 1909 S RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO9621](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	12	27 N	23 W	445044.86	930716.48	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1909 S RESET 2011

IN EAGAN, 0.1 MILE SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE EAST JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 149 (DODD ROAD), AT TRUNK HIGHWAY 55 MILEPOINT 202.8, 84.1 FEET NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 53.9 FEET SOUTH OF THE SOUTHEAST CORNER OF A BRICK BUILDING, 21.7 FEET EAST OF A POWER POLE WITH 2 GUY WIRES, 1.8 FEET WEST OF A WITNESS POST.

Station Pair: 1909 V - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	853.857	0.016	260.256	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.220 12B = -90.229 09 = -90.154 03 = -89.977

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 44.85996	93 07 16.48204	550689.775	236365.735	167850.579	72044.420	232.749			2015	GPS3085	
NAD83 (1996)	44 50 44.85981	93 07 16.48233	550689.754	236365.720	167850.573	72044.416	232.819	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_S_RESET-DO9621-3E-02AUG2023.jpg	E	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_S_RESET-DO9621-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_S_RESET-DO9621-1-28MAY2013.jpg		May 28, 2013

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94772.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94772.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 T

NGS Name: 1909 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8643](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	127 N	23 W	445112.00	930751.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	SURVEY DISK	MNDT

Description: (1997) **Stamping:** 1909 T 1997

IN EAGAN, 0.06 MILE NORTHWEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND DODD ROAD IN EAGAN, AT TRUNK HIGHWAY 55 MILEPOINT 202.1, 117.0 FEET NORTH-NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 28.8 FEET EAST-SOUTHEAST OF THE SOUTHEAST LEG OF A BILLBOARD, 2.1 FEET WEST-NORTHWEST OF A WITNESS POST.

Station Notes
THE DISK WAS RETURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	850.730	0.016	259.303	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -90.088 12B = -90.095 09 = -90.016 03 = -89.846

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_T-DE8643-1-28NOV2006.jpg		Nov 28, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36792.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36792.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 T RESET

NGS Name: 1909 T RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO9619](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	2	127 N	23 W	445112.01	930750.53	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2013	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2013) **Stamping:** 1909 T RESET 2013

IN EAGAN, 0.06 MILE NORTHWEST ALONG TRUNK HIGHWAY 55 FROM THE WEST JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 149 (DODD ROAD) IN EAGAN, AT TRUNK HIGHWAY 55 MILEPOINT 202.1, 117.0 FEET NORTH-NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 40.0 FEET SOUTHEAST OF THE SOUTH LEG OF A BRICK SIGN, 2.1 FEET WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	850.487	0.016	259.229	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.088 12B = -90.098 09 = -90.016 03 = -89.846

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 12.00952	93 07 50.52840	548230.396	239109.708	167100.959	72880.785	231.752			2015	GPS3085	
NAD83 (1996)	44 51 12.00937	93 07 50.52868	548230.376	239109.693	167100.953	72880.780	231.820	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_T_RESET-DO9619-3E-02AUG2023.jpg	E	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_T_RESET-DO9619-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_T_RESET-DO9619-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_99948.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_99948.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 U

NGS Name: 1909 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO9620](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	1	27 N	23 W	445053.54	930726.62	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2013	2023	DESTROYED	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2013) **Stamping:** 1909 U 2013

IN EAGAN, 0.1 MILE EAST ALONG COUNTY ROAD 26 (LONE OAK ROAD) FROM THE JUNCTION OF COUNTY ROAD 26 AND TRUNK HIGHWAY 55/TRUNK HIGHWAY 149 IN EAGAN, 66.8 FEET NORTH OF COUNTY ROAD 26, 40.6 FEET WEST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	851.406	0.016	259.509	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.180 12B = -90.190 09 = -90.111 03 = -89.937

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_U-DO9620-3N-02AUG2023.jpg	N	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_U-DO9620-2-30MAY2013.jpg		May 30, 2013
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_U-DO9620-1-30MAY2013.jpg		May 30, 2013

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_99949.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_99949.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1909 V

NGS Name: 1909 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7379](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	7	27 N	22 W	445030.93	930613.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1909 V 2014

IN INVER GROVE HEIGHTS, 0.2 MILE WEST-NORTHWEST ALONG WESTBOUND TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND COUNTY ROAD 28 AND COUNTY ROAD 63 AND ARGENTA TRAIL WEST IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 55 MILEPOINT 203.75, 16.1 FEET NORTHEAST OF A WESTBOUND TRUNK HIGHWAY 55 FOG LINE, 3.3 FEET NORTHEAST OF THE BACK OF A GUARD RAIL, 1.5 FEET NORTHEAST OF A WITNESS POST.

Station Pair: 1909 S RESET - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	868.296	0.016	264.657	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.410 12B = -90.420 09 = -90.348 03 = -90.167

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 30.92681	93 06 13.32254	555244.215	234965.995	169238.775	71617.778	237.103	C	2015	GPS3085		
NAD83 (1996)	44 50 30.92666	93 06 13.32283	555244.194	234965.980	169238.769	71617.774	237.171	C	2015	HDTA		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_V-DP7379-3NE-02AUG2023.jpg	NE	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_V-DP7379-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1909_V-DP7379-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101771.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101771.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 19090

NGS Name: 19090

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	28	28 N	23 W	445241.20	930947.00			2011	2023	GOOD		YES	19090	FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 19090 1994 2011

IN MENDOTA, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF ACACIA BOULEVARD, 0.30 MILE NORTH ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 13, 84.1 FEET WEST OF TRUNK HIGHWAY 13, 23.2 FEET SOUTH OF ACACIA BOULEVARD, 22.8 FEET WEST OF THE SOUTHEAST END OF A BRIDGE RAILING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.721 12B = -89.721 09 = -89.639 03 = -89.488

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/19090-3S-01AUG2023.jpg	S	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/19090-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/19090-1-05OCT2011.jpg		Oct 5, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94856.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94856.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 A

NGS Name: 1910 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8629](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	18	115 N	18 W	444555.83	930202.79	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2009	DESTROYED	Horz=NO Vert=NO	YES	9110		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1910 A 1970

IN PINE BEND, IN THE SOUTHWEST CORNER OF EASTBOUND TRUNK HIGHWAY 55 BRIDGE NUMBER 9110 OVER NORTHBOUND TRUNK HIGHWAY 52, 15.0 FEET SOUTHWEST OF A CENTERLINE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	939.831	0.016	286.461	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -92.054 12B = -92.037 09 = -91.991 03 = -91.831

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_A-DE8629-3W-18MAR2009.jpg	W	Mar 18, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_A-DE8629-2-18MAR2009.jpg		Mar 18, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_A-DE8629-1-18MAR2009.jpg		Mar 18, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6960.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6960.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 B

NGS Name: 1910 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0643](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	115 N	18 W	444433.00	925903.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1910-B 1970

IN ROSEMOUNT, 500.0 FEET EAST OF THE WEST JUNCTION OF TRUNK HIGHWAY 55 AND COUNTY ROAD 42, AT FAHEY AVENUE, 47.0 FEET NORTH OF TRUNK HIGHWAY 55 AT STATION 489+00, 40.0 FEET WEST OF A TELEPHONE POLE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	896.701	0.016	273.315	0.005	2/0	1991	00000025
NGVD29	896.543	0.016	273.267	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.031 12B = -93.025 09 = -92.972 03 = -92.811

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_B-PP0643-3N-08SEP2011.jpg	N	Sep 8, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_B-PP0643-2-08SEP2011.jpg		Sep 8, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_B-PP0643-1-08SEP2011.jpg		Sep 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6961.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6961.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 C

NGS Name: 1910 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0642](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	115 N	18 W	444432.32	925828.46	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2007	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1910 C 1970

IN ROSEMOUNT, 0.5 MILE EAST OF THE WEST JUNCTION OF TRUNK HIGHWAY 55 AND COUNTY ROAD 42, 45.7 FEET NORTH OF TRUNK HIGHWAY 55, 36.0 FEET WEST OF FISHER AVENUE EAST, 9.0 FEET WEST OF A POWER POLE (NUMBER 45), 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	890.553	0.016	271.441	0.005	2/0	1991	00000025
NGVD29	890.395	0.016	271.393	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.176 12B = -93.169 09 = -93.117 03 = -92.959

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_C-PP0642-3N-07NOV2006.jpg	N	Nov 7, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_C-PP0642-2-07NOV2006.jpg		Nov 7, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_C-PP0642-1-07NOV2006.jpg		Nov 7, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6962.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6962.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 D

NGS Name: 1910 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0641](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	27	115 N	18 W	444430.98	925744.51	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2007	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1910 D 1970

IN ROSEMOUNT, AT TRUNK HIGHWAY 55 MILEPOINT 214. 85, 0.5 MILE WEST OF THE EAST JUNCTION OF TRUNK HIGHWAY 55 AND COUNTY ROAD 42, 48.0 FEET NORTH OF TRUNK HIGHWAY 55, 6.6 FEET EAST OF A HIGH TENSION POWER POLE (NUMBER 54), 3.0 FEET SOUTH OF A RIGHT-OF-WAY MARKER, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.473	0.016	269.283	0.005	2/0	1991	00000025
NGVD29	883.312	0.016	269.234	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.366 12B = -93.363 09 = -93.313 03 = -93.153

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 44 30.98109	92 57 44.50847	592066.083	198638.946	180462.103	60545.272	240.884	2	1999	17648		
NAD83 (1986)	44 44 30.97328	92 57 44.50540	592066.308	198638.156	180462.172	60545.031		2	1991	GPS194		
NAD27	44 44 31.09151	92 57 43.74849						2	1991	17504		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_D-PP0641-3N-07NOV2006.jpg	N	Nov 7, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_D-PP0641-2-07NOV2006.jpg		Nov 7, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_D-PP0641-1-07NOV2006.jpg		Nov 7, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6963.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6963.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 E

NGS Name: 1910 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0639](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	115 N	18 W	444418.49	925620.42	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2009	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1910 E 1970

3.0 MILES WEST OF HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 216.0, 0.6 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND THE EAST JUNCTION OF COUNTY ROAD 42, 66.0 FEET EAST-SOUTHEAST OF MILEPOST 216, 49.0 FEET SOUTH OF TRUNK HIGHWAY 55, 20.0 FEET EAST OF A FIELD ENTRANCE, 0.9 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.263	0.016	269.219	0.005	2/1	2010	00000425-37
NGVD29	883.102	0.016	269.170	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.776 12B = -93.789 09 = -93.743 03 = -93.563

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 18.48959	92 56 20.41746	598141.670	197401.119	182313.946	60167.982	240.651			2012	GPS2800	
NAD83 (2007)	44 44 18.48970	92 56 20.41836	598141.605	197401.130	182313.926	60167.985	240.661	C		2010	HWSHN	
NAD83 (1996)	44 44 18.48941	92 56 20.41792	598141.637	197401.101	182313.936	60167.976	240.746	C		2008	HWSHN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_E-PP0639-3NE-17MAR2009.jpg	NE	Mar 17, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_E-PP0639-2-02FEB2010.jpg		Feb 2, 2010
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_E-PP0639-1-02FEB2010.jpg		Feb 2, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6964.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6964.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 F

NGS Name: 1910 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0638](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	25	115 N	18 W	444417.93	925546.61	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 8 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2002) **Stamping:** 1910 F 1970

1.8 MILES WEST OF HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 216.5, 170.0 FEET WEST OF HORNER AVENUE, 54.0 FEET EAST-NORTHEAST OF A TELEPHONE POLE, 38.0 FEET SOUTH OF TRUNK HIGHWAY 55, 15.8 FEET SOUTH-SOUTHWEST OF THE WEST END OF A GUARD RAIL, 7.0 FEET SOUTHWEST OF A CONCRETE RETAINING WALL, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	870.792	0.016	265.418	0.005	2/1	2016	00000879
NGVD29	870.635	0.016	265.370	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.930 12B = -93.950 09 = -93.911 03 = -93.717

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_F-PP0638-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_F-PP0638-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_F-PP0638-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6965.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6965.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 G

NGS Name: 1910 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0637](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	115 N	18 W	444418.51	925512.82	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2007) **Stamping:** 1910 G 1970

1.5 MILES WEST OF HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 216.95, 1.0 MILE WEST OF JACOB AVENUE, IN THE NORTHEAST CORNER OF A TRUNK HIGHWAY 55 CATTLE PASS, 300.0 FEET WEST OF MILEPOST 217.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	842.111	0.016	256.676	0.005	2/1	2016	00000879
NGVD29	842.078	0.016	256.666	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.088 12B = -94.111 09 = -94.078 03 = -93.871

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_G-PP0637-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_G-PP0637-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_G-PP0637-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6966.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6966.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 H

NGS Name: 1910 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0636](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	115 N	17 W	444418.00	925434.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2001	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	SURVEY DISK	MNDT

Description: (1997) **Stamping:** 1910-H 1970

0.8 MILE WEST OF HASTINGS, 0.3 MILE WEST OF JACOB AVENUE, AT TRUNK HIGHWAY 55 STATION 683+50, IN THE SOUTHEAST CORNER OF A BOX CULVERT UNDER TRUNK HIGHWAY 55. NO BOX CULVERT IN 1997.

Station Notes
NO BOX CULVERT IN 2006.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	907.429	0.016	276.585	0.005	2/0	1991	00000025
NGVD29	907.265	0.016	276.535	0.005	2	1972	L123 MINN

Geoid Separations(ft): GEOID18 = -94.278 12B = -94.304 09 = -94.278 03 = -94.055

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6967.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6967.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 J

NGS Name: 1910 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0630](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	30	115 N	17 W	444419.00	925338.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 12 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (1997) **Stamping:** 1910 J 1970

AT HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 218.2, 2.0 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61, 0.5 MILE EAST OF JACOB AVENUE, 45.0 FEET NORTH OF TRUNK HIGHWAY 55, 112.0 FEET WEST OF A POWER POLE NUMBER 50, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	904.168	0.016	275.591	0.005	2/0	1995	00000136
NGVD29	904.004	0.016	275.541	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.560 12B = -94.583 09 = -94.567 03 = -94.337

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6968.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6968.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 K

NGS Name: 1910 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0629](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	29	115 N	17 W	444419.00	925257.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1910 K 1970

IN HASTINGS, 1.5 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61, 1.0 MILE EAST OF JACOB AVENUE, 45.0 FEET NORTH OF TRUNK HIGHWAY 55 AT STATION 715+90, 28.0 FEET NORTHWEST OF THE EAST END OF A METAL CULVERT, 4.0 FEET SOUTHEAST OF A FENCE POST, 2.0 FEET SOUTH OF A NORTH RIGHT-OF-WAY FENCE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	853.112	0.016	260.029	0.005	2/0	1991	00000025
NGVD29	852.948	0.016	259.979	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.754 12B = -94.770 09 = -94.757 03 = -94.534

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6969.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6969.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 L

NGS Name: 1910 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0627](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	115 N	17 W	444419.00	925220.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1910 L 1970

IN HASTINGS, 1.0 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61, 23.0 FEET SOUTH OF TRUNK HIGHWAY 55 AT TRUNK HIGHWAY 55 MILEPOINT 219.3, 2.0 FEET WEST OF A WITNESS POST, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 55 BOX CULVERT. CONSTRUCTION TO THE SOUTH FRONTAGE ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	800.553	0.016	244.009	0.005	2/0	1995	00000136
NGVD29	800.389	0.016	243.959	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -94.993 12B = -95.003 09 = -94.987 03 = -94.780

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6970.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6970.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 M

NGS Name: 1910 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0625](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	17 W	444411.00	925109.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1910 M 1970

IN HASTINGS, IN THE NORTHWEST CORNER OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 291 (10 TRUNK HIGHWAY AVENUE), 1.0 BLOCK NORTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55, 18.0 FEET NORTH OF 10TH STREET, 46.0 FEET NORTH OF THE NORTHEAST CORNER OF A STONE FENCE POST, 17.0 FEET FROM A FIRE HYDRANT, 8.0 FEET WEST OF THE WEST EDGE OF A SIDEWALK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	778.184	0.016	237.191	0.005	2/0	1991	00000025
NGVD29	778.020	0.016	237.141	0.005	2	1972	L123 MINN

Geoid Separations(ft): GEOID18 = -95.400 12B = -95.394 09 = -95.367 03 = -95.174

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6971.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6971.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 N

NGS Name: 1910 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0969](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	115 N	18 W	444520.23	930041.65	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1982	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	SURVEY DISK	MNDT

Description: (1982) **Stamping:** 1910 N 1982

1.3 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 52, IN THE SOUTHWEST QUADRANT OF A RAILROAD CROSSING AT TRUNK HIGHWAY 55, 50.0 FEET SOUTHWEST OF TRUNK HIGHWAY 55, 65.3 FEET NORTHWEST OF A RAILROAD, 18.7 FEET WEST OF THE NORTHWEST END OF A METAL CULVERT AT AN ENTRANCE, 15.0 FEET NORTHWEST OF A POWER POLE, 7.0 FEET WEST OF A POWER POLE, 1.0 FOOT NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	890.444	0.016	271.408	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.487 12B = -92.470 09 = -92.415 03 = -92.264

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_N-DQ0969-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_N-DQ0969-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_N-DQ0969-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6972.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6972.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 P

NGS Name: 1910 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0971](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	115 N	18 W	444450.20	925943.87	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1982	2022	POOR	Horz=YES Vert=YES	YES		PROJECTS 12 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	SURVEY DISK	MNDT

Description: (1990) **Stamping:** 1910 P 1982

2.4 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 55 MILEPOINT 213.1, AT A FIELD ENTRANCE SOUTH, 48.8 FEET SOUTHWEST OF TRUNK HIGHWAY 55, 10.0 FEET WEST OF A FIELD ENTRANCE, 8.7 FEET SOUTH OF THE NORTHWEST END OF A METAL CULVERT UNDER AN ENTRANCE, 3.2 FEET SOUTHEAST OF A POWER POLE, 2.7 FEET NORTH OF A NORTHWEST GATE POST, 0.9 FOOT NORTHEAST OF A WITNESS POST, ON A FENCE LINE.

Station Notes

DISK AND ROD DAMAGED, SHOULD BE RESET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	904.053	0.016	275.556	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.805 12B = -92.795 09 = -92.743 03 = -92.588

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 50.19548	92 59 43.86543	583443.167	200549.204	177833.833	61127.520	247.264			2016	GPS3147	
NAD83 (1996)	44 44 50.19535	92 59 43.86589	583443.134	200549.191	177833.823	61127.516	247.329	C		2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_P-DQ0971-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_P-DQ0971-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_P-DQ0971-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6973.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6973.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 Q

NGS Name: 1910 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL6765](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	115 N	17 W	444417.10	925415.31	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	SURVEY DISK	MNDT

Description: (1998) **Stamping:** 1910 Q 1997

2.0 MILES WEST OF HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 217.75, 2.55 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, 103.3 FEET SOUTH OF TRUNK HIGHWAY 55, 72.2 FEET WEST OF JACOB AVENUE, 16.9 FEET NORTH-NORTHWEST OF A TELEPHONE PEDESTAL NUMBER 9000 10 010, 6.9 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	944.007	0.016	287.734	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.376 12B = -94.399 09 = -94.380 03 = -94.153

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_Q-DL6765-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_Q-DL6765-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_Q-DL6765-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36782.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36782.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 R

NGS Name: 1910 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL6764](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	115 N	17 W	444418.00	925323.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	1998	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (1998) **Stamping:** 1910 R 1997

1.5 MILES WEST OF HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 218.45, 1.85 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, 232.6 FEET NORTH OF TRUNK HIGHWAY 55 WESTBOUND LANE, 12.4 FEET SOUTH-SOUTHEAST OF A LIGHT POLE, 26.0 FEET EAST OF GENERAL SIEBEN DRIVE, 2.4 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	903.916	0.016	275.514	0.005	2/1	2010	00000425-37

Geoid Separations(ft): GEOID18 = -94.639 12B = -94.662 09 = -94.645 03 = -94.419

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36781.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36781.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 S

NGS Name: 1910 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL6763](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	28	115 N	17 W	444417.40	925223.29	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1997	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1910 S 1997

IN THE WEST EDGE OF HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 219.28, 1.05 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, 28.7 FEET SOUTH OF TRUNK HIGHWAY 55 EASTBOUND LANE, 26.7 FEET NORTH OF A FRONTAGE ROAD, 127.5 FEET WEST-SOUTHWEST OF A LIGHT STANDARD, 4.0 FEET EAST OF THE EAST END OF A RETAINING WALL, 3.0 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	804.939	0.016	245.346	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.970 12B = -94.980 09 = -94.967 03 = -94.760

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 17.40188	92 52 23.28948	615259.232	197377.267	187531.389	60160.711	216.386			2016	GPS3147	
NAD83 (1996)	44 44 17.40176	92 52 23.28990	615259.202	197377.255	187531.380	60160.708	216.449	C		2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_S-DL6763-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_S-DL6763-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_S-DL6763-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36780.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36780.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 T

NGS Name: 1910 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0977](#) [Get Map](#)
NGS Quad / Sta Num : 44092434/
USGS Quad: VERMILLION

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	30	115 N	17 W	444417.40	925351.36	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1910 T 2015

2.0 MILES WEST OF HASTINGS, 2.3 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 218.15, 35.9 FEET SOUTH OF A TRUNK HIGHWAY 55 FOG LINE, 0.4 MILE WEST OF GENERAL SIEBEN ROAD, 135.0 FEET WEST OF THE HASTINGS POPULATION SIGN, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	918.338 0.016	279.910 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -94.498 12B = -94.521 09 = -94.501 03 = -94.275

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions			County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year			Reference	
NAD83 (2011)	44 44 17.39742	92 53 51.35984	608901.896	197343.144	185593.669	60150.311	251.103			2016	GPS3147
NAD83 (1996)	44 44 17.39730	92 53 51.36027	608901.865	197343.132	185593.660	60150.307	251.166	C		2016	HMIES

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_T-DQ0977-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_T-DQ0977-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_T-DQ0977-1-06MAY2015.jpg		May 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103384.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103384.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 U

NGS Name: 1910 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0976](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	115 N	18 W	444417.80	925520.73	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 64 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1910 U 2015

3.5 MILES WEST OF HASTINGS, 3.4 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 216.8, 36.6 FEET SOUTH OF A TRUNK HIGHWAY 55 FOG LINE, 0.3 MILE EAST OF HORNER AVENUE, 24.5 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	857.360	0.016	261.324	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.052 12B = -94.075 09 = -94.042 03 = -93.835

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_U-DQ0976-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_U-DQ0976-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_U-DQ0976-1-06MAY2015.jpg		May 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103385.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103385.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 V

NGS Name: 1910 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0973](#) [Get Map](#)
NGS Quad / Sta Num : 44092434/
USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	26	115 N	18 W	444427.95	925656.85	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1910 V 2015

4.8 MILES WEST OF HASTINGS, 4.8 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 215.5, 82.5 FEET NORTHEAST OF A TRUNK HIGHWAY 55 FOG LINE, 171.5 FEET SOUTHEAST OF AN EAST COUNTY ROAD 42 FOG LINE (MISSISSIPPI TRAIL ROUTE), 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	879.900	0.016	268.194	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.582 12B = -93.586 09 = -93.537 03 = -93.369

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 27.94683	92 56 56.85196	595507.335	198346.890	181510.999	60456.253	239.663	2016	C	2016	GPS3147	
NAD83 (1996)	44 44 27.94671	92 56 56.85239	595507.304	198346.878	181510.989	60456.249	239.728	2016	C	2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_V-DQ0973-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_V-DQ0973-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_V-DQ0973-1-06MAY2015.jpg		May 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103386.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103386.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 W

NGS Name: 1910 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0972](#) [Get Map](#)
NGS Quad / Sta Num : 44092434/
USGS Quad: VERMILLION

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	28	115 N	18 W	444431.01	925828.31	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	POOR	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1910 W 2015

IN ROSEMOUNT, 4.85 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 214.25, 63.9 FEET SOUTH OF TRUNK HIGHWAY 55 FOG LINE, 30.3 FEET WEST OF FISCHER AVENUE, 1.5 FEET NORTH OF A WITNESS POST.

Station Notes

ROD LEANING SOUTH, SHOULD BE RESET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	894.660	0.016	272.693	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.179 12B = -93.176 09 = -93.123 03 = -92.962

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 31.00629	92 58 28.31443	588904.139	198627.976	179498.341	60541.928	244.288			2016	GPS3147	
NAD83 (1996)	44 44 31.00618	92 58 28.31486	588904.108	198627.965	179498.331	60541.925	244.353	C		2016	HMTS	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_W-DQ0972-3W-20OCT2022.jpg	W	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_W-DQ0972-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_W-DQ0972-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103387.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103387.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1910 X

NGS Name: 1910 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0970](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	115 N	18 W	444515.20	930028.92	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 62 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1910 X 2015

IN ROSEMOUNT, 1.4 MILE SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 52 IN ROSEMOUNT, AT TRUNK HIGHWAY 55 MILEPOINT 212.3, 56.0 FEET NORTH-NORTHEAST OF A TRUNK HIGHWAY 55 FOG LINE, 70.5 FEET SOUTHEAST OF AN ENTRANCE TO RECONSERVE RECYCLERS, 1.5 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.414	0.016	269.265	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.549 12B = -92.536 09 = -92.480 03 = -92.329

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>			<u>County (Meters)</u>			<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>		<u>X</u>	<u>Y</u>				<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 45 15.19528	93 00 28.91743		580181.991	203068.557		176839.825	61895.420		241.050		2016	GPS3147
NAD83 (1996)	44 45 15.19516	93 00 28.91788		580181.959	203068.545		176839.815	61895.416		241.115	C	2016	HMIES

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_X-DQ0970-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_X-DQ0970-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1910_X-DQ0970-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103388.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103388.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 A

NGS Name: 1911 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	112 N	18 W	443130.00	930030.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1946	2006	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 8 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2007) **Stamping:** 1911 A 1946

0.5 MILE EAST OF RANDOLPH, 145.0 FEET EAST OF TRUNK HIGHWAY 56, AT TRUNK HIGHWAY 56 STATION 945+90, 67.5 FEET EAST-SOUTHEAST OF A FENCE CORNER, 37.0 FEET SOUTH OF THE SOUTH RAILROAD RIGHT-OF-WAY FENCE, 25.0 FEET SOUTH OF A HIGH TENSION POWER LINE.

Station Notes

FOUND A BROKEN CONCRETE (11-30-05). RECOVERED BROKEN CONCRETE WITH ABOUT 6.0 INCHES OF REBAR BENT OVER, ONE PHOTO OF BROKEN CONCRETE WITH REBAR BENT OVER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.924 12B = -94.924 09 = -94.869 03 = -94.747

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_A-1-08NOV2006.jpg		Nov 8, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6974.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6974.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 B

NGS Name: 1911 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	5	112 N	18 W	443154.00	930018.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	2015	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1973)

Stamping: 1911 B 1946

1.0 MILE NORTHEAST OF RANDOLPH, 73.0 FEET EAST OF TRUNK HIGHWAY 56, AT TRUNK HIGHWAY 56 STATION 973+00.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.944 12B = -94.944 09 = -94.888 03 = -94.764

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6975.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6975.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 C

NGS Name: 1911 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6878](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	112 N	18 W	443226.83	925953.07	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1946	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1911 C 1946

1.5 MILES NORTHEAST OF RANDOLPH, 1.2 MILES NORTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 88 IN RANDOLPH, AT TRUNK HIGHWAY 56 MILEPOINT 94.55, AT TRUNK HIGHWAY 56 STATION 1007+00, 21.0 FEET EAST OF TRUNK HIGHWAY 56, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 56 BOX CULVERT.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	889.716	0.016	271.186	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.997 12B = -94.997 09 = -94.941 03 = -94.810

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_C-DK6878-3NE-06OCT2022.jpg	NE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_C-DK6878-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_C-DK6878-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6976.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6976.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 D

NGS Name: 1911 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6877](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	33	113 N	18 W	443249.47	925940.35	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1946	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1911 D 1946

2.0 MILES NORTHEAST OF RANDOLPH, 1.65 MILES NORTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 88 IN RANDOLPH, AT TRUNK HIGHWAY 56 MILEPOINT 95.05, 30.0 FEET EAST OF TRUNK HIGHWAY 56, AT TRUNK HIGHWAY 56 STATION 1032+50, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 56 DOUBLE BOX CULVERT, 1.8 FEET NORTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	889.700	0.016	271.181	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.016 12B = -95.013 09 = -94.957 03 = -94.823

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_D-DK6877-3E-06OCT2022.jpg	E	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_D-DK6877-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_D-DK6877-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6977.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6977.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 E

NGS Name: 1911 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6876](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	113 N	18 W	443330.99	925941.05	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1946	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1911 E 1946

3.7 MILES SOUTH OF HAMPTON, 3.0 MILES SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 52, AT TRUNK HIGHWAY MILEPOINT 95.85, 19.5 FEET EAST OF TRUNK HIGHWAY 56, AT TRUNK HIGHWAY 56 STATION 1074+25, 2.5 FEET EAST OF A GUARDRAIL, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 56 DOUBLE BOX CULVERT.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.374	0.016	271.996	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.954 12B = -94.947 09 = -94.888 03 = -94.754

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_E-DK6876-3N-06OCT2022.jpg	N	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_E-DK6876-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_E-DK6876-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6978.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6978.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 F

NGS Name: 1911 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6875](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	28	113 N	18 W	443341.24	925941.21	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1946	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1911 F 1946

3.4 MILES SOUTH OF HAMPTON, 2.8 MILES SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 50, AT TRUNK HIGHWAY 56 MILEPOINT 96.05, 20.5 FEET EAST OF TRUNK HIGHWAY 56, AT TRUNK HIGHWAY 56 STATION 1084+65, 2.2 FEET EAST OF A GUARDRAIL, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 56 DOUBLE BOX CULVERT, 3.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.259	0.016	271.961	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.937 12B = -94.928 09 = -94.872 03 = -94.734

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_F-DK6875-3N-06OCT2022.jpg	N	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_F-DK6875-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_F-DK6875-1-28AUG2011.jpg		Aug 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6979.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6979.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 G

NGS Name: 1911 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6873](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	21	113 N	18 W	443500.12	925941.69	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1946	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1911 G 1946

2.0 MILES SOUTH OF HAMPTON, 1.29 MILES SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 56 MILEPOINT 97.5, 20.1 FEET EAST OF TRUNK HIGHWAY 56, AT TRUNK HIGHWAY 56 STATION 1164+50, 3.7 FEET NORTHWEST OF A WITNESS POST, 3.0 FEET EAST OF A GUARD RAIL, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 56 BOX CULVERT.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	953.210	0.016	290.539	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.780 12B = -94.773 09 = -94.724 03 = -94.573

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_G-DK6873-3N-06OCT2022.jpg	N	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_G-DK6873-2-03AUG2011.jpg		Aug 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_G-DK6873-1-03AUG2011.jpg		Aug 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6980.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6980.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 H

NGS Name: 1911 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0563](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	113 N	18 W	443554.97	925934.80	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1911 H 1972

2.0 MILES SOUTHEAST OF HAMPTON, 0.2 MILE SOUTH ON TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 50 AT TRUNK HIGHWAY 56 MILEPOINT 98.59, 36.2 FEET EAST OF CENTERLINE OF TRUNK HIGHWAY 56, 6.2 FEET EAST OF A GUARDRAIL, 4.2 NORTH OF A WITNESS POST, IN THE SOUTHEAST CORNER OF A CULVERT.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	959.168	0.016	292.355	0.005	2/1	2016	00000879
NGVD29	959.050	0.016	292.319	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.695 12B = -94.688 09 = -94.632 03 = -94.478

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_H-PP0563-3N-06OCT2022.jpg	N	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_H-PP0563-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_H-PP0563-1-03AUG2011.jpg		Aug 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6981.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6981.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 J

NGS Name: 1911 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6872](#) [Get Map](#)
NGS Quad / Sta Num : 44092433/
USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	16	113 N	18 W	443512.62	925940.51	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1911 J 2006

2.0 MILES SOUTH OF HAMPTON, 1.0 MILE SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 50/TRUNK HIGHWAY 52 IN HAMPTON, AT TRUNK HIGHWAY 56 MILEPOINT 97.80, 80.2 FEET EAST OF TRUNK HIGHWAY 56, 39.6 FEET NORTH 250TH STREET EAST, 1.7 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	962.432	0.016	293.350	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.760 12B = -94.754 09 = -94.701 03 = -94.550

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 35 12.61810	92 59 40.51098	583916.631	142055.213	177978.145	43298.516	264.471	2016	GPS3146			
NAD83 (1996)	44 35 12.61795	92 59 40.51134	583916.605	142055.198	177978.137	43298.511	264.533	2016	HCOAT			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_J-DK6872-3N-06OCT2022.jpg	N	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_J-DK6872-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_J-DK6872-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_53782.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53782.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 K

NGS Name: 1911 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6739](#) [Get Map](#)
NGS Quad / Sta Num : 44092433/
USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	113 N	18 W	443419.24	925941.99	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1911 K 2006

3.0 MILES SOUTH OF HAMPTON, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 50/TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 56 MILEPOST 96.80, 69.0 FEET WEST OF TRUNK HIGHWAY 56, 85.0 FEET SOUTH OF 260TH STREET EAST, 4.7 FEET NORTH OF CABLE PEDESTAL NUMBER M37, 1.2 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	937.574	0.016	285.773	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.862 12B = -94.855 09 = -94.800 03 = -94.659

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 34 19.23630	92 59 41.99107	583830.867	136648.546	177952.004	41650.560	256.867			2016	GPS3146	
NAD83 (1996)	44 34 19.23613	92 59 41.99142	583830.842	136648.529	177951.997	41650.555	256.928	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_K-DK6739-3W-06OCT2022.jpg	W	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_K-DK6739-2-28AUG2011.jpg		Aug 28, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_K-DK6739-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_53799.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53799.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 L

NGS Name: 1911 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6740](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	112 N	18 W	443136.02	930031.08	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1911 L 2006

0.5 MILE EAST OF RANDOLPH, AT THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 88 (0.5 MILE EAST OF RANDOLPH), AT TRUNK HIGHWAY 56 MILEPOST 93.40, 75.2 FEET SOUTHEAST OF TRUNK HIGHWAY 56, 121.6 FEET NORTH OF COUNTY ROAD 88, 42.3 FEET NORTHWEST OF CABLE PEDESTAL NUMBER M 1817, 2.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	879.959	0.016	268.212	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.915 12B = -94.915 09 = -94.859 03 = -94.737

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 31 36.01838	93 00 31.07871	580339.848	120104.958	176887.940	36608.064	239.274	2016	GPS3146			
NAD83 (1996)	44 31 36.01820	93 00 31.07905	580339.824	120104.939	176887.932	36608.059	239.336	C	2016	HCOAT		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_L-DK6740-3SE-06OCT2022.jpg	SE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_L-DK6740-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_L-DK6740-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_53800.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53800.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1911 M

NGS Name: 1911 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0991](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	29	113 N	18 W	443336.80	925942.44	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1911 M 2015

2.75 MILES NORTH-NORTHEAST OF RANDOLPH, 2.5 MILES NORTH-NORTHEAST ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 88 IN RANDOLPH, AT TRUNK HIGHWAY 56 MILEPOINT 95.95, 75.4 FEET WEST OF TRUNK HIGHWAY 56, 57.3 FEET NORTH OF A FIELD ENTRANCE, 0.8 MILE SOUTH OF 260TH STREET EAST, 1.9 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	887.314	0.016	270.454	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.937 12B = -94.931 09 = -94.875 03 = -94.737

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 33 36.79760	92 59 42.44068	583815.291	132350.444	177947.257	40340.496	241.517	2016	GPS3146			
NAD83 (1996)	44 33 36.79745	92 59 42.44103	583815.265	132350.428	177947.249	40340.491	241.579	2016	HCOAT			

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_M-DQ0991-3W-06OCT2022.jpg	W	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_M-DQ0991-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1911_M-DQ0991-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103389.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103389.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 A

NGS Name: 1912 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ5266](#) [Get Map](#)
NGS Quad / Sta Num : 44093111/
USGS Quad: ST PAUL EAST

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	22	28 N	22 W	445329.97	930201.90	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2016	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) Stamping: 1912 A 2016

IN SOUTH ST. PAUL, 1.1 MILES NORTH ALONG TRUNK HIGHWAY 156 (CONCORD STREET) FROM THE JUNCTION OF TRUNK HIGHWAY 156 AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, 36.7 FEET WEST SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 156, 90.0 FEET NORTH-NORTHWEST OF VETERANS MEMORIAL DRIVE, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	706.199 0.016	215.250 0.005	2/1	2020 00000955

Geoid Separations(ft): GEOID18 = -90.745 12B = -90.754 09 = -90.676 03 = -90.499

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year Reference					
NAD83 (2011)	44 53 29.97501	93 02 01.89994	573297.845	253155.216	174741.533	77161.864	187.592	2017	GPS3178			
NAD83 (1996)	44 53 29.97487	93 02 01.90024	573297.823	253155.202	174741.526	77161.860	187.657	C	2017	HPIGS		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_A-DQ5266-3W-09AUG2023.jpg	W	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_A-DQ5266-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_A-DQ5266-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106311.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106311.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 AA

NGS Name: 1912 AA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4447](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	22 W	445147.00	930118.90	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2011	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 5 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1912 AA 1989

IN SOUTH ST. PAUL, 0.9 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 56 AND INTERSTATE HIGHWAY 494, 75.0 FEET NORTH OF THE JUNCTION OF TRUNK HIGHWAY 56 (CONCORD STREET) AND DAWN WAY, 14.4 FEET WEST OF A RAILROAD, 15.5 FEET EAST OF ALLEY, 32.5 FEET EAST-SOUTHEAST OF A POWER POLE, 52.2 FEET SOUTHWEST OF A TELEPHONE POLE, 55.6 FEET NORTHEAST OF A FENCE CORNER, 1.4 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK IS LEANING ABOUT 25.0 DEGREES WEST.
 THE DISK WAS TURNED IN TO OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	709.808	0.016	216.350	0.005	2/1	2000	00000359
NGVD29	709.690	0.016	216.314	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -91.115 12B = -91.128 09 = -91.050 03 = -90.873

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AA-AH4447-3E-01DEC2006.jpg	E	Dec 1, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AA-AH4447-2-01DEC2006.jpg		Dec 1, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AA-AH4447-1-01DEC2006.jpg		Dec 1, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6982.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6982.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 AA RESET

NGS Name: 1912 AA RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	35	28 N	22 W	445147.00	930118.90			2011	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 5 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1912 AA RESET 2011

IN SOUTH ST. PAUL, 0.9 MILE SOUTH ALONG COUNTY ROAD 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND INTERSTATE HIGHWAY 494 IN ST. PAUL, 75.0 FEET NORTH OF THE JUNCTION OF TRUNK HIGHWAY 56 (CONCORD STREET) AND DAWN WAY, 14.4 FEET WEST OF A RAILROAD, 15.5 FEET EAST OF ALLEY, 32.5 FEET EAST-SOUTHEAST OF A POWER POLE, 52.2 FEET SOUTHWEST OF A TELEPHONE POLE, 55.6 FEET NORTHEAST OF A FENCE CORNER. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Station Notes

USE DRIVEWAY NUMBER 5942 TO REACH THE MONUMENT. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.115 12B = -91.128 09 = -91.050 03 = -90.873

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AA_RESET-3NE-27SEP2011.jpg	NE	Sep 27, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AA_RESET-2-27SEP2011.jpg		Sep 27, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AA_RESET-1-27SEP2011.jpg		Sep 27, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94554.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94554.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 AB

NGS Name: 1912 AB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4448](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	2	27 N	22 W	445112.60	930046.50	2		1989	2023	DESTROYED	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1912 AB 1989

IN INVER GROVE HEIGHTS, 1.6 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 56 (CONCORD BOULEVARD EAST) AND INTERSTATE HIGHWAY 494 THEN 0.3 MILE EAST ON 66TH STREET, 21.9 FEET NORTH OF DRAWBRIDGE ROAD (66TH STREET), 38.5 FEET NORTH OF A LIGHT POLE, IN TOP OF THE WEST SIDE OF AN ABANDONED SIGNAL BASE, STATION 1922 B (CHISELED X) IS IN THE NORTHEAST CORNER OF A SIGNAL BASE 20.0 FEET SOUTH OF A ROAD. AREA DEVELOPED INTO A CITY PARK.

Station Notes

AREA DEVELOPED INTO A CITY PARK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	702.308	0.016	214.064	0.005	2/1	2000	00000359
NGVD29	702.197	0.016	214.030	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -91.322 12B = -91.332 09 = -91.253 03 = -91.069

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AB-AH4448-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AB-AH4448-2-08MAY2007.jpg		May 8, 2007
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_AB-AH4448-1-21MAY2007.jpg		May 21, 2007

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6983.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6983.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 B

NGS Name: 1912 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ5267](#) [Get Map](#)
NGS Quad / Sta Num : 44093111/
USGS Quad: ST PAUL EAST

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
SE	16	28 N	22 W	445420.89	930247.50	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2016	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) Stamping: 1912 B 2016

IN SOUTH ST. PAUL, 2.25 MILES NORTHWEST ALONG TRUNK HIGHWAY 156 (CONCORD STREET) FROM THE JUNCTION OF TRUNK HIGHWAY 156 AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, 76.9 FEET NORTHEAST OF TRUNK HIGHWAY 156 (CONCORD STREET NORTH), 35.9 FEET SOUTHEAST OF BRYANT AVENUE, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	734.221	0.016	223.791	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.518 12B = -90.525 09 = -90.449 03 = -90.275

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 54 20.89435	93 02 47.50488	569997.433	258301.240	173735.565	78730.376	196.189	2017	GPS3178			
NAD83 (1996)	44 54 20.89420	93 02 47.50516	569997.413	258301.225	173735.559	78730.371	196.253	C	2017	HPIGS		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_B-DQ5267-3E-08AUG2023.jpg	E	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_B-DQ5267-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_B-DQ5267-1-08AUG2023.jpg		Aug 8, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106315.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106315.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 U

NGS Name: 1912 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1339](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	11	27 N	22 W	445051.00	930113.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1212-U - 1970

IN INVER GROVE HEIGHTS, 500.0 FEET SOUTH OF COUNTY ROAD 26, 48.0 FEET EAST OF TRUNK HIGHWAY 56 AT STATION 21+73, 10.0 FEET NORTHWEST OF THE WEST END OF AN ADVERTISING SIGN.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	798.410	0.016	243.356	0.005	2/0	1991	00000025
NGVD29	798.296	0.016	243.321	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.289 12B = -91.299 09 = -91.230 03 = -91.046

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6984.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6984.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 V

NGS Name: 1912 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1338](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	27 N	22 W	445031.10	930116.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2007	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1912 V 1970

IN INVER GROVE HEIGHTS, 0.5 MILE SOUTH OF COUNTY ROAD 26, 49.0 FEET EAST OF TRUNK HIGHWAY 56 AT STATION 39+41, 19.0 FEET SOUTHEAST OF THE SOUTH END OF A 15.0 INCH DIAMETER METAL CULVERT UNDER 74TH STREET EAST, 4.0 FEET NORTHWEST OF A NORTHWEST FENCE CORNER, AT A TRAILER COURT.

Station Notes

DUG AND FOUND CHUNKS OF CONCRETE WITH REBAR EXPOSED, 2004 - POWER SQUADRON REPORTED THAT STATE HIGHWAY 56 IS NOW DAKOTA COUNTY ROAD, STAMPING IS VERY HARD TO READ.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	803.368	0.016	244.867	0.005	2/0	2000	00000359
NGVD29	803.256	0.016	244.833	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.329 12B = -91.338 09 = -91.270 03 = -91.092

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_V-PP1338-3E-30NOV2006.jpg	E	Nov 30, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_V-PP1338-2-30NOV2006.jpg		Nov 30, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_V-PP1338-1-30NOV2006.jpg		Nov 30, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6985.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6985.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 W

NGS Name: 1912 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1337](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	11	27 N	22 W	445005.20	930120.40	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1912 W 1970

IN INVER GROVE HEIGHTS, 700.0 FEET NORTH OF COUNTY ROAD 77, 46.0 FEET EAST OF TRUNK HIGHWAY 56 AT STATION 65+80, 45.0 FEET SOUTH OF A 24.0 INCH DIAMETER CONCRETE CULVERT, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes
TIES FALL IN SIDEWALK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	855.110	0.016	260.638	0.005	2/0	1991	00000025
NGVD29	854.995	0.016	260.603	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.388 12B = -91.394 09 = -91.332 03 = -91.155

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_W-PP1337-3NE-10AUG2023.jpg	NE	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_W-PP1337-2-30NOV2006.jpg		Nov 30, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_W-PP1337-1-30NOV2006.jpg		Nov 30, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6986.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6986.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 X

NGS Name: 1912 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1335](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	27 N	22 W	444912.78	930149.28	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2009	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1912 X 1970

IN INVER GROVE HEIGHTS, 1.0 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52/TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, NORTH ON TRUNK HIGHWAY 56 TO OLD CONCORD BOULEVARD, SOUTH TO HOUSE NUMBER 3750 ON AN OLD CONCORD BOULEVARD, 71.0 FEET NORTH OF CATTLE PASS, 49.0 FEET EAST OF OLD CONCORD BOULEVARD, 12.0 FEET SOUTH OF A DRIVE TO HOUSE NUMBER 3750, 10.0 FEET NORTH OF A TELEPHONE PEDESTAL, THE MONUMENT IS IN ROCK EDGING AROUND A FLOWER GARDEN.

Station Notes

THE DISK WAS TURNED IN TO OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	908.532	0.016	276.921	0.005	2/0	1991	00000025
NGVD29	908.414	0.016	276.885	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.447 12B = -91.443 09 = -91.388 03 = -91.217

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_X-PP1335-3E-18MAR2009.jpg	E	Mar 18, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_X-PP1335-2-18MAR2009.jpg		Mar 18, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1912_X-PP1335-1-18MAR2009.jpg		Mar 18, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6987.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6987.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 Y

NGS Name: 1912 Y

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1334](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	27 N	22 W	444852.00	930204.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1912Y 1970

IN INVER GROVE HEIGHTS, 0.5 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, 145.0 FEET NORTH OF A DRIVE EAST, 43.0 FEET WEST OF TRUNK HIGHWAY 56 AT STATION 148+36, 57.0 FEET SOUTH OF A DRIVE WEST, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	941.504	0.016	286.971	0.005	2/0	1991	00000025
NGVD29	941.383	0.016	286.934	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.453 12B = -91.443 09 = -91.394 03 = -91.220

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6988.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6988.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1912 Z

NGS Name: 1912 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1333](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	22	27 N	22 W	444829.00	930222.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	9107		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1912 Z 1970

IN INVER GROVE HEIGHTS, AT THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 NORTHBOUND BRIDGE NUMBER 9107 OVER TRUNK HIGHWAY 56, THE BRIDGE WAS REMOVED IN 1994.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	896.409	0.016	273.226	0.005	2/0	1991	00000025
NGVD29	896.288	0.016	273.189	0.005	2	1971	L22353

Geoid Separations(ft): GEOID18 = -91.460 12B = -91.450 09 = -91.401 03 = -91.230

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6989.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6989.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 A

NGS Name: 1913 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0621](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	17 W	444441.80	925109.10	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2013	DESTROYED	Horz=NO Vert=NO	YES	5895	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1913 A 1970

IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 117.6, 0.6 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61, IN THE SOUTHWEST CORNER OF TRUNK HIGHWAY 61 BRIDGE NUMBER 5895 OVER THE MISSISSIPPI RIVER, 17.0 FEET WEST OF TRUNK HIGHWAY 61, 3.1 FEET NORTH OF THE SOUTHWEST CORNER OF A BRIDGE NUMBER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	730.294	0.016	222.594	0.005	2/1	2010	00000425-37
NGVD29	730.117	0.016	222.540	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.272 12B = -95.279 09 = -95.249 03 = -95.052

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_A-PP0621-3N-21APR2008.jpg	N	Apr 21, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_A-PP0621-2-21APR2008.jpg		Apr 21, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_A-PP0621-1-21APR2008.jpg		Apr 21, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6990.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6990.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 A 1

NGS Name: 1913 A 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1592](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	17 W	444444.66	925058.66	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL - LIGHT RETAINING	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1913 A 1 2011

0.45 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS TO TRUNK HIGHWAY 61 MILEPOINT 117.45, THEN 0.2 MILE EAST ON EAST 4TH STREET, THEN 0.3 MILE NORTH AND EAST ON TYLER STREET, 30.0 FEET SOUTH OF TYLER STREET, 10.0 FEET NORTH OF A BIKE PATH, 20.0 FEET EAST OF A LIGHT POLE. THE DISK WAS SET IN A DRILL HOLE.

Station Notes

THIS STATION WAS SET FOR USE BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) FOR THEIR STREAM GAGE. PLEASE NOTIFY GREG MITTON (THE UNITED STATES GEOLOGICAL SURVEY (USGS) HYDROLOGIST) OR HIS SUCCESSOR WHEN UPDATES ARE MADE TO THIS POINT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	686.800	0.016	209.337	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -95.315 12B = -95.321 09 = -95.292 03 = -95.095

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_A_1-DO1592-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_A_1-DO1592-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_A_1-DO1592-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93779.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93779.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 AA

NGS Name: 1913 AA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1089](#) [Get Map](#)
NGS Quad / Sta Num : 44092432/
USGS Quad: MIESVILLE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	12	113 N	17 W	443602.08	924750.36	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1913 AA 2014

1.0 MILE EAST OF MIESVILLE, 0.65 MILE EAST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 SOUTH (NICOLAI AVENUE) IN MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 104.80, 57.3 FEET SOUTH OF TRUNK HIGHWAY 61, 25.5 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	976.291	0.016	297.574	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -97.260 12B = -97.250 09 = -97.178 03 = -97.060

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 02.08393	92 47 50.36165	635280.325	147330.348	193633.830	44906.380	267.929			2016	GPS3147	
NAD83 (1996)	44 36 02.08382	92 47 50.36208	635280.294	147330.337	193633.821	44906.377	267.992	C		2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AA-DQ1089-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AA-DQ1089-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AA-DQ1089-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102878.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102878.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 AB

NGS Name: 1913 AB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1080](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NE	21	114 N	17 W	444002.35	925112.85	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) Stamping: 1913 AB 2015

4.0 MILES SOUTH OF HASTINGS, 3.6 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 112.1, 41.8 FEET WEST OF TRUNK HIGHWAY 61, 0.4 MILE SOUTH OF COUNTY ROAD 62, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	843.758	0.016	257.178	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.181 12B = -96.171 09 = -96.105 03 = -95.955

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions						County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Hgt (m)	Year	Reference					
NAD83 (2011)	44 40 02.34764	92 51 12.84703	620490.997	171574.673	189126.034	52296.065	227.874	2016	GPS3147					
NAD83 (1996)	44 40 02.34755	92 51 12.84747	620490.965	171574.663	189126.025	52296.062	227.936	C	2016	HMIES				

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AB-DQ1080-3W-28SEP2022.jpg	W	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AB-DQ1080-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AB-DQ1080-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103390.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103390.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 AC

NGS Name: 1913 AC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1081](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	114 N	17 W	444105.56	925112.77	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1913 AC 2015

3.0 MILES SOUTH OF HASTINGS, 2.4 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 113.3, 54.5 FEET WEST OF TRUNK HIGHWAY 61, 0.2 MILE SOUTH OF 180TH STREET, 16.0 FEET SOUTH OF DRIVEWAY NUMBER 18205, 3.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	823.614	0.016	251.038	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.023 12B = -96.004 09 = -95.948 03 = -95.797

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 05.56325	92 51 12.77563	620459.746	177976.904	189116.509	54247.469	221.771	2016	GPS3147			
NAD83 (1996)	44 41 05.56319	92 51 12.77607	620459.715	177976.898	189116.499	54247.467	221.834	C	2016	HMIES		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AC-DQ1081-3W-28SEP2022.jpg	W	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AC-DQ1081-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AC-DQ1081-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103391.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103391.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 AD

NGS Name: 1913 AD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1082](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	9	114 N	17 W	444151.69	925112.67	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 84 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1913 AD 2015

2.0 MILES SOUTH OF HASTINGS, 1.5 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 114.2, 48.4 FEET WEST OF TRUNK HIGHWAY 61, 0.3 MILE SOUTH OF 170TH STREET EAST, 20.0 FEET SOUTH OF A FIELD ENTRANCE, 1.4 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	839.030	0.016	255.737	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.882 12B = -95.859 09 = -95.813 03 = -95.659

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>						<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>						
NAD83 (2011)	44 41 51.69100	92 51 12.67516	620440.435	182648.575	189110.623	55671.397	226.516	2016	GPS3147					
NAD83 (1996)	44 41 51.69091	92 51 12.67560	620440.403	182648.566	189110.613	55671.394	226.578	C	2016 HMI5					

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AD-DQ1082-3W-28SEP2022.jpg	W	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AD-DQ1082-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_AD-DQ1082-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103392.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103392.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 B

NGS Name: 1913 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3435](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	13	113 N	17 W	443601.95	924807.15	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1913 B 1988

IN MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 104.9, 0.5 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 SOUTH IN MIESVILLE, 1.4 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316, 55.5 FEET SOUTH OF TRUNK HIGHWAY 61, 15.5 FEET WEST OF A FIELD ENTRANCE, 132.0 FEET WEST-SOUTHWEST OF A POWER POLE, 0.9 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	972.872	0.016	296.532	0.005	2/1	2016	00000879
NGVD29	972.718	0.016	296.485	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -97.211 12B = -97.201 09 = -97.129 03 = -97.011

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_B-PP3435-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_B-PP3435-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_B-PP3435-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6991.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6991.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 C

NGS Name: 1913 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3434](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	113 N	17 W	443601.99	924844.94	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	TRAVERSE STATION DISK	MNDT

Description: (2011) **Stamping:** 1913 C 1988

IN MIESVILLE, AT THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 NORTH, AT TRUNK HIGHWAY 61 MILEPOINT 105.45, 23.8 FEET SOUTH OF TRUNK HIGHWAY 61, 77.5 FEET EAST OF COUNTY ROAD 91 NORTH 4 EXTENSION, 55.3 FEET EAST OF A POWER POLE, 2.3 FEET SOUTH OF A GUARDRAIL, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 61 TRIPLE BOX CULVERT, 2.0 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	933.482	0.016	284.526	0.005	2/1	2016	00000879
NGVD29	933.328	0.016	284.479	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -97.096 12B = -97.086 09 = -97.014 03 = -96.893

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_C-PP3434-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_C-PP3434-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_C-PP3434-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6992.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6992.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 D

NGS Name: 1913 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3433](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	11	113 N	17 W	443603.46	924847.63	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2015	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2015) **Stamping:** 1913 D 1988

IN MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 105.45, AT THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 NORTH, 123.5 FEET NORTH OF TRUNK HIGHWAY 61, 115.5 FEET WEST OF COUNTY ROAD 91 NORTH, ON THE LOWER STEP AT THE EAST MAIN ENTRANCE TO SAINT JOSEPH CATHOLIC CHURCH, 1.2 FEET SOUTH OF THE NORTH ENTRANCE PILLAR, 2.0 FEET NORTH OF THE NORTH HANDRAIL.

Station Notes
THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	934.401	0.016	284.806	0.005	2/1	2016	00000879
NGVD29	934.335	0.016	284.786	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -97.086 12B = -97.077 09 = -97.004 03 = -96.883

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_D-PP3433-3W-25JUL2011.jpg	W	Jul 25, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_D-PP3433-2-25JUL2011.jpg		Jul 25, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_D-PP3433-1-25JUL2011.jpg		Jul 25, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6993.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6993.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 E

NGS Name: 1913 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3432](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	14	113 N	17 W	443602.00	924936.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1913 E 1988

IN MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 106.15, 0.7 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91, 61.2 FEET SOUTH OF TRUNK HIGHWAY 61, 117.0 FEET WEST OF A POWER POLE, 3.7 FEET NORTH OF THE NORTHEAST CORNER OF A CATTLE BARN.

Station Notes
THE BARN LOOKS LIKE IT HAS BEEN ENLARGED, CONSIDERED DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	961.789	0.016	293.154	0.005	2/1	1995	00000136
NGVD29	961.632	0.016	293.106	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.936 12B = -96.929 09 = -96.857 03 = -96.729

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_E-PP3432-3S-25JUL2011.jpg	S	Jul 25, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_E-PP3432-2-25JUL2011.jpg		Jul 25, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_E-PP3432-1-14AUG2011.jpg		Aug 14, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6994.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6994.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 E RESET

NGS Name: 1913 E RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1087](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	14	113 N	17 W	443602.30	924938.37	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1913 E RESET 2014

IN MIESVILLE, 0.7 MILE WEST FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 NORTH IN MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 106.15, 61.2 FEET SOUTH OF TRUNK HIGHWAY 61, 3.7 FEET NORTH OF THE NORTHEAST CORNER OF A SHED.

Station Notes
NO WITNESS POST PLACED.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	961.560	0.016	293.084	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.929 12B = -96.919 09 = -96.847 03 = -96.719

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 02.30176	92 49 38.36967	627465.217	147304.007	191251.781	44898.351	263.561			2016	GPS3147	
NAD83 (1996)	44 36 02.30168	92 49 38.37012	627465.184	147303.998	191251.771	44898.349	263.623	C		2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_E_RESET-DQ1087-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_E_RESET-DQ1087-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_E_RESET-DQ1087-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102768.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102768.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 F

NGS Name: 1913 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3431](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	15	113 N	17 W	443603.12	925033.32	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1913 F 1988

1.5 MILES WEST OF MIESVILLE, 1.45 MILES WEST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 NORTH IN MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 106.95, 0.6 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 61, 46.0 FEET SOUTH OF TRUNK HIGHWAY 61, 18.0 FEET WEST OF A FIELD ENTRANCE, 3.0 FEET WEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.922	0.016	283.136	0.005	2/1	2016	00000879
NGVD29	928.771	0.016	283.090	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.745 12B = -96.739 09 = -96.666 03 = -96.532

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_F-PP3431-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_F-PP3431-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_F-PP3431-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6995.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6995.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 G

NGS Name: 1913 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3401](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	9	113 N	17 W	443606.25	925118.22	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2015	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1913 G 1988

1.1 MILES WEST OF MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 107.6, NEAR THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50, 225.8 FEET NORTH AND 157.5 FEET EAST OF TRUNK HIGHWAY 61, 15.0 FEET EAST-SOUTHEAST OF A 26.0 INCH DIAMETER OAK TREE, 13.0 FEET WEST-NORTHWEST OF A 28.0 INCH DIAMETER OAK TREE, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Station Notes

DISK DAMAGED AND LEANING NORTH.
THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	957.449	0.016	291.831	0.005	2/1	1995	00000136
NGVD29	957.298	0.016	291.785	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.588 12B = -96.578 09 = -96.509 03 = -96.371

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_G-PP3401-3N-26JUL2011.jpg	N	Jul 26, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_G-PP3401-2-26JUL2011.jpg		Jul 26, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_G-PP3401-1-26JUL2011.jpg		Jul 26, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6996.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6996.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 G RESET

NGS Name: 1913 G RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1073](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	9	113 N	17 W	443606.25	925118.21	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1913 G RESET 2014

1.1 MILES WEST OF MIESVILLE, AT THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50, (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 107.55, 225.8 FEET NORTH AND 157.5 FEET EAST OF TRUNK HIGHWAY 61, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Station Notes
COULD BE RESET - AGAIN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	957.232	0.016	291.765	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.588 12B = -96.578 09 = -96.509 03 = -96.371

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_G_RESET-DQ1073-3N-29SEP2022.jpg	N	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_G_RESET-DQ1073-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_G_RESET-DQ1073-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102775.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102775.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 H

NGS Name: 1913 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3416](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	113 N	17 W	443647.06	925116.14	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1913 H 1988

2.0 MILES WEST-NORTHWEST OF MIESVILLE, 0.8 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 108.4, 52.8 FEET WEST OF TRUNK HIGHWAY 61, 5.1 FEET EAST-SOUTHEAST OF THE EAST SIGNPOST FOR A LARGE SIGN, 0.9 FOOT EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	911.340	0.016	277.777	0.005	2/1	2016	00000879
NGVD29	911.186	0.016	277.730	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.535 12B = -96.532 09 = -96.460 03 = -96.315

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_H-PP3416-3W-29SEP2022.jpg	W	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_H-PP3416-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_H-PP3416-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6997.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6997.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 J

NGS Name: 1913 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3417](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	4	113 N	17 W	443721.65	925111.91	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 7 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1913 J 1988

2.4 MILES WEST-NORTHWEST OF MIESVILLE, 1.5 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 109.05, 87.0 FEET WEST OF TRUNK HIGHWAY 61, 69.5 FEET NORTHWEST OF A POWER POLE, 0.9 FOOT EAST OF A WITNESS POST.

Station Notes
DO NOT RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	894.864	0.016	272.755	0.005	2/1	2016	00000879
NGVD29	894.706	0.016	272.707	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.499 12B = -96.496 09 = -96.420 03 = -96.276

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_J-PP3417-3W-27OCT2014.jpg	W	Oct 27, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_J-PP3417-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_J-PP3417-1-27OCT2014.jpg		Oct 27, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6998.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6998.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 K

NGS Name: 1913 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3418](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	114 N	17 W	443753.88	925110.31	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1913 K 1988

2.0 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (1.1 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 109.65, 56.7 FEET EAST OF TRUNK HIGHWAY 61, 135.0 FEET SOUTH OF DRIVEWAY NUMBER 21830 (FERVELLGAS), 2.1 FEET WEST OF A CORNER FENCE POST, 0.6 FOOT WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.551	0.016	272.050	0.005	2/1	1995	00000136
NGVD29	892.393	0.016	272.002	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.453 12B = -96.450 09 = -96.371 03 = -96.227

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_K-PP3418-3E-11AUG2011.jpg	E	Aug 11, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_K-PP3418-2-11AUG2011.jpg		Aug 11, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_K-PP3418-1-11AUG2011.jpg		Aug 11, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_6999.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_6999.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 L

NGS Name: 1913 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3419](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	114 N	17 W	443839.92	925110.18	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2017) **Stamping:** 1913 L 1988

3.0 MILES NORTHWEST OF MIESVILLE, 3.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 110.5, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 61 AND 210TH STREET, 137.5 FEET EAST OF TRUNK HIGHWAY 61, 27.4 FEET NORTH OF 210TH STREET, 1.7 FEET WEST OF A POWER POLE WITH A GUY WIRE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	851.422	0.016	259.514	0.005	2/1	2016	00000879
NGVD29	851.261	0.016	259.465	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.368 12B = -96.365 09 = -96.289 03 = -96.142

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_L-PP3419-3N-28SEP2022.jpg	N	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_L-PP3419-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_L-PP3419-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7000.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7000.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 M

NGS Name: 1913 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3420](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	114 N	17 W	443911.80	925114.50	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1913 M 1988

3.6 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (1.1 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 111.1, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 61 AND 205TH STREET, 144.5 FEET WEST OF TRUNK HIGHWAY 61, 66.0 FEET NORTH OF 205TH STREET, 12.7 FEET SOUTH-SOUTHEAST OF THE NORTHEAST CORNER OF THE MARSHAN TOWN HALL, 22.7 FEET SOUTH-SOUTHWEST OF A POWER POLE WITH A LIGHT, 90.7 FEET NORTH OF A POWER POLE WITH A TRANSFORMER AND LIGHT, 0.5 FOOT NORTH OF THE NORTH EDGE OF A SIDEWALK.

Station Notes
THE DISK HAS BEEN HIT BY SNOWPLOW.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	848.814	0.016	258.719	0.005	2/1	1995	00000136
NGVD29	848.656	0.016	258.671	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.292 12B = -96.283 09 = -96.214 03 = -96.063

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_M-PP3420-1-14NOV2006.jpg		Nov 14, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7001.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7001.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 M RESET

NGS Name: 1913 M RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1596](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	114 N	17 W	443911.90	925114.81	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1913 M RESET 2011

3.5 MILES NORTHWEST OF MIESVILLE, 3.6 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 111.1, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 61 AND 205TH STREET, 144.5 FEET WEST OF TRUNK HIGHWAY 61, 66.0 FEET NORTH OF 205TH STREET, 12.7 FEET SOUTH-SOUTHEAST OF THE NORTHEAST CORNER OF THE MARSHAN TOWN HALL, 22.7 FEET SOUTH-SOUTHWEST OF A POWER POLE WITH A LIGHT, 90.7 FEET NORTH OF A POWER POLE WITH A TRANSFORMER AND A LIGHT, 0.5 FOOT NORTH OF THE NORTH EDGE OF A SIDEWALK.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	848.496	0.016	258.622	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.286 12B = -96.279 09 = -96.207 03 = -96.060

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_M_RESET-DO1596-3W-28SEP2022.jpg	W	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_M_RESET-DO1596-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_M_RESET-DO1596-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93844.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93844.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 N

NGS Name: 1913 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3421](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	21	114 N	17 W	443941.73	925112.66	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1913 N 1988

4.5 MILES SOUTH OF HASTINGS, 4.15 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 111.8, AT THE JUNCTION OF TRUNK HIGHWAY 61 AND 198TH STREET, 45.5 FEET WEST OF TRUNK HIGHWAY 61, 31.0 FEET NORTH OF 198TH STREET, 71.9 FEET NORTH OF A POWER POLE, 1.7 FEET WEST OF A POWER POLE WITH A TRANSFORMER, 1.7 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	879.703	0.016	268.134	0.005	2/1	2016	00000879
NGVD29	879.542	0.016	268.085	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.230 12B = -96.220 09 = -96.151 03 = -96.004

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_N-PP3421-3N-28SEP2022.jpg	N	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_N-PP3421-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_N-PP3421-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7002.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7002.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 P

NGS Name: 1913 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3422](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	15	114 N	17 W	444024.39	925109.28	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 55 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** 1913 P 1988

3.35 MILES SOUTH OF HASTINGS, 3.35 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 112.5, AT THE JUNCTION OF TRUNK HIGHWAY 61 AND 190TH STREET, 225.0 FEET EAST OF TRUNK HIGHWAY 61, 89.0 FEET WEST OF A POWER POLE (ID NUMBER DAHM77), 27.5 FEET NORTH OF 190TH STREET (COUNTY ROAD 62), 0.8 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	820. 815	0. 016	250. 185	0. 005	2/1	2016	00000879
NGVD29	820. 655	0. 016	250. 136	0. 005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.145 12B = -96.132 09 = -96.069 03 = -95.918

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_P-PP3422-3N-28SEP2022.jpg	N	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_P-PP3422-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_P-PP3422-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7003.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7003.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 Q

NGS Name: 1913 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3423](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	16	114 N	17 W	444054.49	925116.61	2	3	1988	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 45 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1913 Q 1988

2.6 MILES SOUTH OF HASTINGS, 2.6 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, ABOUT 300.0 FEET WEST OF TRUNK HIGHWAY 61, AT TRUNK HIGHWAY 61 MILEPOINT 113.1, 33.0 FEET NORTH OF DRIVEWAY NUMBER 18505, 2.8 FEET EAST OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	820.904	0.016	250.212	0.005	2/1	2016	00000879
NGVD29	820.737	0.016	250.161	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.037 12B = -96.020 09 = -95.961 03 = -95.810

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Q-PP3423-3W-16JUN2011.jpg	W	Jun 16, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Q-PP3423-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Q-PP3423-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7004.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7004.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 R

NGS Name: 1913 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP3424	Get Map
NGS Quad / Sta Num : 44092431/	
USGS Quad: HASTINGS	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	114 N	17 W	444132.96	925112.58	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1913 R 1988

2.0 MILES SOUTH OF HASTINGS, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 AT TRUNK HIGHWAY 61 MILEPOINT 113.85, 45.5 FEET WEST OF TRUNK HIGHWAY 61, 66.0 FEET SOUTH OF DRIVEWAY NUMBER 17656 EXTENSION, 96.5 FEET WEST-NORTHWEST OF A POWER POLE WITH A TRANSFORMER, 3.1 FEET SOUTH OF A POWER POLE, 0.8 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	823.771	0.016	251.086	0.005	2/1	2016	00000879
NGVD29	823.604	0.016	251.035	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.941 12B = -95.922 09 = -95.873 03 = -95.718

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_R-PP3424-3W-28SEP2022.jpg	W	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_R-PP3424-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_R-PP3424-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7005.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7005.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 S

NGS Name: 1913 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3425](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NE	9	114 N	17 W	444208.01	925114.63	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1913 S 1988

1.3 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 AT HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 114.5, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 61 AND 170TH STREET, 225.0 FEET WEST OF TRUNK HIGHWAY 61, 30.0 FEET SOUTH OF 170TH STREET, 72.0 FEET SOUTHWEST OF A POWER POLE NUMBER 18-1R, 1.4 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	831.396	0.016	253.410	0.005	2/1	2016	00000879
NGVD29	831.229	0.016	253.359	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.820 12B = -95.797 09 = -95.754 03 = -95.597

* No Horizontal Positions in the Database *

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_S-PP3425-3S-28SEP2022.jpg	S	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_S-PP3425-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_S-PP3425-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7006.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7006.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 T

NGS Name: 1913 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3426](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	114 N	17 W	444241.42	925109.96	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE/BITUMINOUS SLAB	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1913 T 1988

0.7 MILE SOUTH FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 115.1, 68.5 FEET EAST OF TRUNK HIGHWAY 61, 27.3 FEET SOUTH OF A LIGHT POLE, 1.0 FOOT NORTH OF THE SOUTH EDGE AND 1.0 FOOT EAST OF THE WEST EDGE OF A CONCRETE BASE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	830.733	0.016	253.208	0.005	2/1	2016	00000879
NGVD29	830.576	0.016	253.160	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.725 12B = -95.708 09 = -95.672 03 = -95.505

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_T-PP3426-3SE-28SEP2022.jpg	SE	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_T-PP3426-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_T-PP3426-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7007.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7007.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 U

NGS Name: 1913 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3429](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	115 N	17 W	444327.44	925107.63	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=NO	YES	19075	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1913 U 1988

0.75 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 AT TRUNK HIGHWAY 61 MILEPOINT 116.1 IN HASTINGS, 0.4 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316, 23.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 61, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 61 BRIDGE NUMBER 19075 OVER THE VERMILLION RIVER, 27.1 FEET SOUTH OF A LIGHT STANDARD ON A BRIDGE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	792.019	0.016	241.408	0.005	2/1	2020	00000955
NGVD29	791.849	0.016	241.356	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.571 12B = -95.558 09 = -95.528 03 = -95.348

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_U-PP3429-3N-27SEP2022.jpg	N	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_U-PP3429-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_U-PP3429-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7008.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7008.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 V

NGS Name: 1913 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3430](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	17 W	444412.00	925109.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1913 V 1988

IN HASTINGS, 1.0 BLOCK NORTH OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61, NEAR THE JUNCTION OF TRUNK HIGHWAY 61 AND 10TH STREET, 108.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 61, 60.7 FEET SOUTHEAST OF A POWER POLE, 22.5 FEET SOUTH OF 10TH STREET, 4.6 FEET NORTH-NORTHWEST OF A WEST STEEL GATE POST, 3.7 FEET NORTH OF A ROCK WALL, 1.3 FEET WEST OF THE WEST EDGE OF A SIDEWALK TO THE NORTHWEST CORNER OF A STADIUM BOWL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	776.993	0.016	236.828	0.005	2/1	2010	00000425-37
NGVD29	776.823	0.016	236.776	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.394 12B = -95.390 09 = -95.364 03 = -95.170

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_V-PP3430-3SW-14NOV2006.jpg	SW	Nov 14, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7009.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7009.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 W

NGS Name: 1913 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1591](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	17 W	444407.32	925110.52	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 38 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1913 W 2011

AT THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 117.0, 80.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 61, 30.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 55, 5.0 FEET NORTH OF A SIDEWALK, 9.3 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	781.990	0.016	238.351	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -95.407 12B = -95.400 09 = -95.374 03 = -95.180

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 07.32118	92 51 10.52152	620517.777	196385.589	189134.197	59858.447	209.262			2016	GPS3147	
NAD83 (1996)	44 44 07.32107	92 51 10.52194	620517.747	196385.578	189134.188	59858.444	209.325		C	2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_W-DO1591-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_W-DO1591-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_W-DO1591-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93778.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93778.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 X

NGS Name: 1913 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1074](#) [Get Map](#)
NGS Quad / Sta Num : 44092432/
USGS Quad: MIESVILLE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	9	113 N	17 W	443655.38	925112.76	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1913 X 2014

2.2 MILES NORTHWEST OF MIESVILLE, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 108.55, 92.5 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 61, 32.3 FEET SOUTH OF COUNTY ROAD 76 (230TH STREET EAST) 26.0 FEET WEST-NORTHWEST OF A FIELD ENTRANCE, 1.5 FEET EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	914.490	0.016	278.737	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.535 12B = -96.532 09 = -96.460 03 = -96.315

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions			County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year			Reference	
NAD83 (2011)	44 36 55.37918	92 51 12.75987	620604.986	152639.459	189160.778	46524.600	249.312	2016	C	GPS3147	
NAD83 (1996)	44 36 55.37908	92 51 12.76031	620604.955	152639.449	189160.769	46524.597	249.374	2016	C	HMIES	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_X-DQ1074-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_X-DQ1074-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_X-DQ1074-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102879.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102879.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 Y

NGS Name: 1913 Y

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1075](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	3	113 N	17 W	443747.00	925110.40	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 27 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1913 Y 2014

2.7 MILES NORTHWEST OF MIESVILLE, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 109.55, 43.7 FEET EAST OF TRUNK HIGHWAY 61, 56.1 FEET SOUTH OF 220TH STREET EAST, 14.3 FEET NORTH OF CABLE BOX NUMBER 553 5, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	889.860	0.016	271.230	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.463 12B = -96.463 09 = -96.381 03 = -96.237

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 37 47.00536	92 51 10.39614	620746.195	157868.864	189203.819	48118.526	241.832	2016	GPS3147			
NAD83 (1996)	44 37 47.00526	92 51 10.39657	620746.164	157868.853	189203.809	48118.523	241.894	C	2016	HMIES		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Y-DQ1075-3E-28SEP2022.jpg	E	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Y-DQ1075-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Y-DQ1075-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102880.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102880.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1913 Z

NGS Name: 1913 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1088](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	14	113 N	17 W	443602.23	924913.36	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1913 Z 2014

IN MIESVILLE, 0.35 MILE WEST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 NORTH (NICOLAI AVENUE) IN MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 105.85, 30.8 FEET SOUTH OF TRUNK HIGHWAY 61, 24.5 FEET EAST OF FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	937.029	0.016	285.607	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -97.008 12B = -96.998 09 = -96.929 03 = -96.801

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 02.23016	92 49 13.36195	629274.707	147307.706	191803.314	44899.479	256.048	3	2020	GPSBM		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Z-DQ1088-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Z-DQ1088-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1913_Z-DQ1088-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102881.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102881.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 A

NGS Name: 1914 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3358](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	114 N	21 W	444116.00	931648.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1914 A 1985

IN LAKEVILLE, 0.85 MILE SOUTHWEST OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 23.5 FEET NORTHEAST OF TRUNK HIGHWAY 50, 51.5 FEET SOUTHEAST OF A SERVICE ROAD, 53.8 FEET WEST-SOUTHWEST OF THE NORTHWEST CORNER OF HOUSE NUMBER 180086, 2.6 FEET SOUTH OF A TELEPHONE POLE.

Station Notes

KENWOOD TRAIL (OLD HIGHWAY 50) HAS BEEN WIDENED, THE TIES FALL IN A DRIVING LANE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1071.300	0.016	326.533	0.005	2/1	1995	00000136
NGVD29	1071.146	0.016	326.486	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.085 12B = -90.085 09 = -90.029 03 = -89.829

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7010.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7010.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 B

NGS Name: 1914 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3359](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	13	114 N	21 W	444042.00	931641.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1914 B 1985

IN LAKEVILLE, 1.5 MILES SOUTHEAST OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 54.5 FEET WEST OF COUNTY ROAD 50, 29.0 FEET NORTH OF 188TH STREET, 50.5 FEET EAST OF A POWER POLE, 24.0 FEET WEST-SOUTHWEST OF A POWER POLE WITH A LIGHT, 11.9 FEET NORTH-NORTHEAST OF A TELEPHONE CABLE ANCHOR POLE, 1.4 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1076.835	0.016	328.220	0.005	2/1	1995	00000136
NGVD29	1076.681	0.016	328.173	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.200 12B = -90.203 09 = -90.144 03 = -89.937

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7011.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7011.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 C

NGS Name: 1914 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3360](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	114 N	20 W	444014.00	931605.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1914 C 1985

IN LAKEVILLE, AT TRUNK HIGHWAY 50 MILEPOINT 2.2, 2.3 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35, IN THE NORTHEAST CORNER OF THE LAKEVILLE HIGH SCHOOL GROUNDS, 37.5 FEET WEST OF TRUNK HIGHWAY 50, 3.8 FEET EAST-SOUTHEAST OF A TELEPHONE CABLE MARKER POST, 7.6 FEET SOUTHWEST OF A POWER POLE.

Station Notes
NO ROD FOUND IN 2022.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1071.740	0.016	326.667	0.005	2/1	1995	00000136
NGVD29	1071.586	0.016	326.620	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.403 12B = -90.410 09 = -90.351 03 = -90.134

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_C-PP3360-1-26OCT2006.jpg		Oct 26, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7012.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7012.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 D

NGS Name: 1914 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3361](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	19	114 N	20 W	443936.00	931536.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1914 D 1985

IN LAKEVILLE, AT TRUNK HIGHWAY 50 MILEPOINT 3.1, 3.2 MILES SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35, 74.5 FEET SOUTH OF TRUNK HIGHWAY 50, 21.5 FEET WEST OF INDRA WAY, 8.0 FEET SOUTH OF THE SOUTH RAIL OF A RAILROAD, 30.2 FEET NORTHEAST OF A POWER POLE, 13.9 FEET EAST OF THE NORTHEAST POWER POLE, 13.9 FEET EAST OF THE NORTHEAST CORNER OF A CYCLONE FENCE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	994.686	0.016	303.181	0.005	2/1	1995	00000136
NGVD29	994.535	0.016	303.135	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.620 12B = -90.630 09 = -90.571 03 = -90.351

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7013.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7013.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 E

NGS Name: 1914 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP3362	Get Map
NGS Quad / Sta Num : 44093131/	
USGS Quad: ORCHARD LAKE	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	114 N	20 W	443920.88	931503.12	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1914 E 1985

IN LAKEVILLE, AT TRUNK HIGHWAY 50 MILEPOINT 3.55, AT THE NORTHWEST CORNER OF THE PRO LUMBER YARD, 0.1 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 9-COUNTY ROAD 64, 63.5 FEET SOUTH OF TRUNK HIGHWAY 50, 39.0 FEET WEST OF AN ENTRANCE TO THE LUMBER YARD, 6.2 FEET NORTH OF AN END FENCE POST, 3.7 FEET SOUTHWEST OF A POWER POLE.

Station Notes
DESTROYED DUE TO LUMBER YARD ENTRANCE WIDENING AND PAVING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	982.380	0.016	299.430	0.005	2/1	1995	00000136
NGVD29	982.232	0.016	299.385	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.781 12B = -90.791 09 = -90.731 03 = -90.515

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 39 20.88111	93 15 03.11903		517123.703	167039.370	157619.620	50913.702	271.727		2012	GPS2800
NAD83 (2007)	44 39 20.88123	93 15 03.11975		517123.651	167039.382	157619.604	50913.706	271.747		2007	GPS2300
NAD83 (1996)	44 39 20.88064	93 15 03.11998		517123.634	167039.322	157619.599	50913.687	271.801	C	2000	GPS1517
NAD83 (1986)	44 39 20.87288	93 15 03.11815		517123.766	167038.537	157619.639	50913.448		C	1989	C019

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7014.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7014.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 F

NGS Name: 1914 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3363](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	29	114 N	20 W	443843.00	931435.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEP	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1914 F 1985

IN LAKEVILLE, AT TRUNK HIGHWAY 50 MILEPOINT 4.75, NEAR THE JUNCTION OF TRUNK HIGHWAY 50 AND 210TH STREET WEST, IN THE SOUTHEAST CORNER OF LOWER STEP OF ALL SAINTS CATHOLIC CHURCH, 81.5 FEET WEST OF TRUNK HIGHWAY 50, 50.5 FEET WEST OF A POWER POLE WITH A LIGHT, 19.5 FEET EAST-NORTHEAST OF THE SOUTHEAST CORNER OF A CHURCH.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	969.145	0.016	295.396	0.005	2/1	1995	00000136
NGVD29	968.997	0.016	295.351	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -910000 12B = -91.010 09 = -90.951 03 = -90.731

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7015.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7015.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 G

NGS Name: 1914 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3364](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	114 N	20 W	443842.00	931350.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2011	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1914 G 1985

IN LAKEVILLE, AT COUNTY ROAD 50, 0.65 MILE EAST OF THE JUNCTION OF COUNTY ROAD 50 AND 210TH STREET WEST (COUNTY ROAD 15), 99.5 FEET NORTH OF COUNTY ROAD 50, 54.0 FEET NORTH-NORTHWEST OF A LIGHT POLE, 24.6 FEET SOUTHWEST OF A CABLE PEDESTAL, 20.5 FEET NORTH OF A BIKE PATH, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	954.959	0.016	291.072	0.005	2/1	2008	00000425-30
NGVD29	954.811	0.016	291.027	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -91.174 12B = -91.181 09 = -91.125 03 = -90.902

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_G-PP3364-3N-24OCT2006.jpg	N	Oct 24, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_G-PP3364-2-24OCT2006.jpg		Oct 24, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_G-PP3364-1-24OCT2006.jpg		Oct 24, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7016.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7016.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 G RESET

NGS Name: 1914 G RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	114 N	20 W	443842.54	931348.70		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: **Stamping:** 1914 G RESET 2011

0.65 MILE EAST ALONG COUNTY ROAD 50 FROM THE JUNCTION OF COUNTY ROAD 50 AND COUNTY ROAD 15 (210TH STREET WEST) IN LAKEVILLE, 99.5 FEET NORTH OF COUNTY ROAD 50, 54.0 FEET NORTH-NORTHWEST OF A LIGHT POLE, 24.6 FEET SOUTHWEST OF A CABLE PEDESTAL, 20.5 FEET NORTH OF A BIKE PATH, 1.2 FEET SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.174 12B = -91.181 09 = -91.125 03 = -90.902

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_G_RESET-3N-02NOV2022.jpg	N	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_G_RESET-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_G_RESET-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94566.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94566.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 H

NGS Name: 1914 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3365](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	33	114 N	20 W	443835.35	931307.98	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1914 H 1985

IN LAKEVILLE, AT COUNTY ROAD 50, 1.25 MILES EAST OF THE JUNCTION OF COUNTY ROAD 50 AND 210TH STREET WEST (COUNTY ROAD 15), 60.5 FEET SOUTH OF COUNTY ROAD 50, 77.0 FEET WEST OF AN EAST ENTRANCE TO THE JEFF BELZER CHEVROLET DEALERSHIP, 80.0 FEET NORTHWEST OF THE NORTHEAST CORNER OF A GARAGE, IN THE NORTHEAST CORNER OF THE CONCRETE BASE OF A CHEVROLET BUSINESS CENTER JEFF BELZER SIGN.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	959.112	0.016	292.338	0.005	2/1	2008	00000425-30
NGVD29	958.965	0.016	292.293	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -91.345 12B = -91.352 09 = -91.296 03 = -91.076

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_H-PP3365-3S-02NOV2022.jpg	S	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_H-PP3365-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_H-PP3365-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7017.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7017.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 J

NGS Name: 1914 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3366](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	114 N	20 W	443831.00	931214.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1914 J 1985

IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 6.7, 3.35 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, IN THE CENTER OF THE NORTH HEADWALL OF A TRUNK HIGHWAY 50 BOX CULVERT, 17.5 FEET NORTH OF TRUNK HIGHWAY 50, 6.2 FEET EAST-SOUTHEAST OF THE WEST END OF A HEADWALL, 63.5 FEET WEST-NORTHWEST OF A WITNESS POST.

Station Notes

DESTROYED, THE BOX CULVERT HAS BEEN REPLACED BY TRUNK HIGHWAY 50 WIDENING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	932.852	0.016	284.334	0.005	2/1	1995	00000136
NGVD29	932.708	0.016	284.290	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -91.561 12B = -91.571 09 = -91.516 03 = -91.292

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7018.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7018.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 K

NGS Name: 1914 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3367](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	114 N	20 W	443829.00	931209.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1914 K 1985

IN FARMINGTON, 3.3 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, 32.0 FEET SOUTH OF TRUNK HIGHWAY 50, 50.5 FEET WEST OF AN ENTRANCE, 3.4 FEET SOUTHWEST OF A TELEPHONE CABLE MARKER POST, 1.2 FEET SOUTH OF A WITNESS POST, AT TRUNK HIGHWAY 50 MILEPOINT 6.75.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	931.786	0.016	284.009	0.005	2/1	1995	00000136
NGVD29	931.642	0.016	283.965	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -91.584 12B = -91.594 09 = -91.539 03 = -91.315

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7019.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7019.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 L

NGS Name: 1914 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3368](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	114 N	20 W	443830.99	931113.34	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 12 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1914 L 1985

IN FARMINGTON, AT COUNTY ROAD 50, 2.45 MILES WEST OF THE JUNCTION OF COUNTY ROAD 50 AND TRUNK HIGHWAY 3, 46.0 FEET NORTH OF THE CENTERLINE OF WESTBOUND COUNTY ROAD 50, 36.5 FEET EAST OF FAIR GREEN AVENUE, 22.0 FEET SOUTH-SOUTHEAST OF A TELEPHONE PEDESTAL, 9.6 FEET WEST OF A POWER POLE, 11.5 FEET SOUTH OF A BITUMINOUS BIKE PATH, 1.7 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	941.169	0.016	286.869	0.005	2/1	2008	00000425-30
NGVD29	941.025	0.016	286.825	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -91.785 12B = -91.794 09 = -91.735 03 = -91.516

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_L-PP3368-3N-02NOV2022.jpg	N	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_L-PP3368-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_L-PP3368-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7020.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7020.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 M

NGS Name: 1914 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3369](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	114 N	20 W	443831.00	931019.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1914 M 1985

IN FARMINGTON, 17.0 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 50 MILEPOINT 8.3, 115.0 FEET NORTH OF TRUNK HIGHWAY 50, 30.3 FEET NORTHEAST OF A POWER POLE, 0.7 FOOT SOUTH-SOUTHEAST OF THE SOUTH FACE OF A POST FOR AN ADVERTISING SIGN.

Station Notes

IN 1995-CITY OF FARMINGTON ENGINEERING DEPARTMENT FOUND ADVERTISING SIGN GONE AND HAY GROWING IN THE AREA IN 2006 THE CONCRETE FOOTING WAS GONE, THE TIES FALL IN THE PARKING LOT OF ADDRESS 5200 B OF THE FARMINGTON INDUSTRIAL PARK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	916.304	0.016	279.290	0.005	2/1	1995	00000136
NGVD29	916.160	0.016	279.246	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -91.991 12B = -91.998 09 = -91.939 03 = -91.719

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7021.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7021.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 N

NGS Name: 1914 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3370](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	31	114 N	19 W	443825.00	930906.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO	3364		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1914 N 1985

IN FARMINGTON, 0.7 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, IN THE SOUTHEAST ABUTMENT OF TRUNK HIGHWAY 50 BRIDGE NUMBER 3364 OVER THE VERMILLION RIVER, 13.0 FEET SOUTH OF TRUNK HIGHWAY 50, AT TRUNK HIGHWAY 50 MILEPOINT 9.35.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	904.788	0.016	275.780	0.005	2/1	2004	00000449
NGVD29	904.644	0.016	275.736	0.005	2/1	1995	VWAAS

Geoid Separations(ft): GEOID18 = -92.270 12B = -92.277 09 = -92.221 03 = -92.004

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7022.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7022.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 P

NGS Name: 1914 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3371](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	31	114 N	19 W	443824.69	930814.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** 1914 P 1985

IN FARMINGTON, IN THE SOUTHWEST QUADRANT OF THE NORTH JUNCTION OF COUNTY ROAD 50 (ELM STREET) AND TRUNK HIGHWAY 3 (8TH STREET), 51.3 FEET SOUTH OF ELM STREET (COUNTY ROAD 50 WEST), 9.0 FEET WEST OF A FRONTAGE ROAD, 50.7 FEET NORTHEAST OF THE NORTHEAST CORNER OF A HOUSE, AT THE SOUTH EDGE OF A CURB, 7.4 FEET SOUTH-SOUTHEAST OF A MANHOLE COVER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	898.732	0.016	273.934	0.005	2/1	2011	00000676
NGVD29	898.587	0.016	273.890	0.005	2/1	1995	VWAAS

Geoid Separations(ft): GEOID18 = -92.454 12B = -92.460 09 = -92.405 03 = -92.188

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_P-PP3371-3W-24OCT2006.jpg	W	Oct 24, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_P-PP3371-2-24OCT2006.jpg		Oct 24, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_P-PP3371-1-24OCT2006.jpg		Oct 24, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7023.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7023.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 Q

NGS Name: 1914 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3372](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	31	114 N	19 W	443820.47	930925.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=NO	YES	19512	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2014) **Stamping:** 1914 Q 1985

IN FARMINGTON, 1.05 MILES WEST ALONG COUNTY ROAD 50 (ELM STREET) FROM THE JUNCTION OF COUNTY ROAD 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, THEN 0.2 MILE SOUTH OF COUNTY ROAD 31 (DENMARK AVENUE), IN THE SOUTHEAST CORNER OF COUNTY ROAD 31 BRIDGE NUMBER 19512 OVER THE VERMILLION RIVER, 32.5 FEET EAST OF COUNTY ROAD 31.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	909.729	0.016	277.286	0.005	2/1	2016	00000879
NGVD29	909.588	0.016	277.243	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -92.211 12B = -92.218 09 = -92.162 03 = -91.945

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_Q-PP3372-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_Q-PP3372-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1914_Q-PP3372-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7024.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7024.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 R

NGS Name: 1914 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3373](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	6	113 N	19 W	443750.00	930841.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2014	DESTROYED	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (1995) **Stamping:** 1914 R 1985

IN FARMINGTON, 0.4 MILE WEST OF THE JUNCTION OF ASH STREET, TRUNK HIGHWAY 50 EAST AND TRUNK HIGHWAY 3, AT AN ENTRANCE TO THE FAIRGROUNDS, 42.5 FEET EAST OF THIRD STREET (EXTENDED), 5.9 FEET WEST OF A POWER POLE, 92.0 FEET SOUTHEAST OF A FIRE HYDRANT, 25.0 FEET SOUTH OF THE CENTER OF ASH STREET, (ABOUT LEVEL WITH THE CENTER OF ASH STREET).

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	910.221	0.016	277.436	0.005	2/1	1995	00000136
NGVD29	910.077	0.016	277.392	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -92.444 12B = -92.451 09 = -92.398 03 = -92.185

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7025.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7025.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 S

NGS Name: 1914 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3374](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	114 N	21 W	444106.00	931641.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1914 S 1985

IN LAKEVILLE, 1.0 MILE SOUTHEAST OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 28.0 FEET EAST OF COUNTY ROAD 50, 190.0 FEET SOUTH OF A DRIVEWAY EAST, 0.5 FOOT WEST OF A WITNESS POST.

Station Notes

OLD HIGHWAY 50 IS NOW KENWOOD TRAIL, HAS BEEN WIDENED, THE TIES FALL ON THE EDGE OF A DRIVING LANE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1086.714	0.016	331.231	0.005	2/1	1995	00000136
NGVD29	1086.560	0.016	331.184	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.131 12B = -90.134 09 = -90.075 03 = -89.875

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7026.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7026.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1914 T

NGS Name: 1914 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3375](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	30	114 N	20 W	443932.00	931529.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1914 T 1985

IN LAKEVILLE, AT COUNTY ROAD 50 MILEPOINT 3.2, 0.35 MILE NORTHWEST OF THE JUNCTION OF COUNTY ROAD 50 AND COUNTY ROAD 9-COUNTY ROAD 64, 34.5 FEET SOUTHWEST OF COUNTY ROAD 50, 27.1 FEET NORTHEAST OF THE NORTHEAST RAIL OF A RAILROAD, OPPOSITE HOUSE NUMBER 20042.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	992.908	0.016	302.639	0.005	2/1	1995	00000136
NGVD29	992.757	0.016	302.593	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -90.659 12B = -90.666 09 = -90.607 03 = -90.387

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7027.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7027.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1916 A

NGS Name: 1916 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7380](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	27 N	22 W	444834.74	930559.96	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1916 A 2014

IN INVER GROVE HEIGHTS, IN THE NORTHEAST CORNER OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 149 MILEPOINT 0.04, 84.5 FEET EAST OF A TRUNK HIGHWAY 149 FOG LINE, 153.6 FEET NORTH OF A TRUNK HIGHWAY 3 FOG LINE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	863.709	0.016	263.259	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.751 12B = -90.748 09 = -90.686 03 = -90.499

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 48 34.74481	93 05 59.96396	556238.097	223201.649	169541.711	68031.999	235.578			2015	GPS3101	
NAD83 (1996)	44 48 34.74467	93 05 59.96424	556238.077	223201.635	169541.705	68031.995	235.643	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_A-DP7380-3E-21JUL2023.jpg	E	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_A-DP7380-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_A-DP7380-1-16JUL2014.jpg		Jul 16, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101772.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101772.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1916 B

NGS Name: 1916 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7381](#) [Get Map](#)
NGS Quad / Sta Num : 44093112/
USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	19	27 N	22 W	444907.47	930614.43	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 53 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1916 B 2014

IN INVER GROVE HEIGHTS, 0.15 MILE NORTHWEST ALONG NORTHBOUND TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND COUNTY ROAD 71 AND RICH VALLEY BOULEVARD IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 149 MILEPOINT 0.75, 0.15 MILE SOUTHEAST OF WESTCOTT ROAD AND ARGENTA TRAIL, 43.6 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 149, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.485	0.016	270.506	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.620 12B = -90.620 09 = -90.551 03 = -90.367

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 49 07.47302	93 06 14.42921	555186.545	226513.598	169221.197	69041.483	242.867			2015	GPS3085	
NAD83 (1996)	44 49 07.47287	93 06 14.42950	555186.524	226513.583	169221.191	69041.478	242.933	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_B-DP7381-3NE-21JUL2023.jpg	NE	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_B-DP7381-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_B-DP7381-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101773.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101773.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1916 C

NGS Name: 1916 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9202](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	13	27 N	23 W	444942.29	930644.66	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1916 C 2014

IN EAGAN, 0.4 MILE SOUTHEAST ALONG TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND COUNTY ROAD 28/YANKEE DOODLE ROAD IN EAGAN, AT TRUNK HIGHWAY 149 MILEPOINT 1.55, 96.5 FEET SOUTHEAST OF AN ENTRANCE TO SUBURBAN LANDSCAPE SERVICE AND SLS DESIGN, 53.1 FEET NORTHEAST OF A TRUNK HIGHWAY 149 FOG LINE, 45.5 FEET EAST OF A POWER POLE WITH THREE GUY WIRES, 11.4 FEET NORTHEAST OF A PEDESTRIAN PATH, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	895.333	0.016	272.898	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.446 12B = -90.449 09 = -90.377 03 = -90.197

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_C-DP9202-3E-01AUG2023.jpg	E	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_C-DP9202-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_C-DP9202-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101774.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101774.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1916 D

NGS Name: 1916 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7382](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	12	27 N	23 W	445003.41	930657.18	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1916 D 2014

IN EAGAN, 0.05 MILE EAST-NORTHEAST ALONG COUNTY ROAD 28 FROM THE JUNCTION OF COUNTY ROAD 28 AND TRUNK HIGHWAY 149 IN EAGAN, AT TRUNK HIGHWAY 149 MILEPOINT 2.0, 23.7 FEET NORTHWEST OF COUNTY ROAD 28, 5.1 FEET NORTHWEST OF A BIKE AND PEDESTRIAN PATH, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	899.782	0.016	274.254	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.361 12B = -90.367 09 = -90.295 03 = -90.115

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 03.40793	93 06 57.18064	552090.825	232170.852	168277.620	70765.817	246.709			2015	GPS3085	
NAD83 (1996)	44 50 03.40776	93 06 57.18093	552090.805	232170.835	168277.614	70765.812	246.774	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_D-DP7382-3N-01AUG2023.jpg	N	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_D-DP7382-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1916_D-DP7382-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101775.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101775.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1917 A

NGS Name: 1917 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO9618](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	27 N	23 W	445128.97	930741.62	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2013	2023	DESTROYED	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2013) **Stamping:** 1917 A 2013

IN EAGAN, 0.35 MILE NORTH ALONG TRUNK HIGHWAY 149 (DODD ROAD) FROM THE WEST JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 55 IN EAGAN, AT TRUNK HIGHWAY 149 MILEPOINT 3.85, 62.1 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 149, 233.0 FEET NORTH OF NORTHWEST PARKWAY, 1.5 FEET WEST OF A WITNESS POST. NEW OFFICE BUILDING CURRENTLY IN PLACE.

Station Notes

NEW OFFICE BUILDING CURRENTLY IN PLACE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.259	0.016	271.961	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.079 12B = -90.088 09 = -90.010 03 = -89.836

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_A-DO9618-3E-03AUG2023.jpg	E	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_A-DO9618-2-30MAY2013.jpg		May 30, 2013
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_A-DO9618-1-30MAY2013.jpg		May 30, 2013

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_99950.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_99950.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1917 B

NGS Name: 1917 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7383](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	35	28 N	23 W	445155.96	930748.21	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1917 B 2014

IN MENDOTA HEIGHTS, IN THE SOUTHWEST CORNER OF TRUNK HIGHWAY 149 AND MENDOTA HEIGHTS ROAD, 0.01 MILE SOUTH ALONG SOUTHBOUND TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND MENDOTA HEIGHTS ROAD IN MENDOTA HEIGHTS, THE JUNCTION IS 0.2 MILE NORTH OF INTERSTATE HIGHWAY 494, 0.1 MILE NORTH OF WESTBOUND INTERSTATE HIGHWAY 494 ON RAMP FROM NORTHBOUND TRUNK HIGHWAY 149, 74.3 FEET SOUTH OF MENDOTA HEIGHTS ROAD BACK OF CURVE, 64.7 FEET SOUTH OF A SIGNAL BASE, 29.2 FEET WEST OF A SOUTHBOUND TRUNK HIGHWAY 149 FOG LINE, 35.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 149, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	908.994	0.016	277.062	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.020 12B = -90.026 09 = -89.951 03 = -89.780

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 55.96294	93 07 48.20878	548387.306	243561.718	167148.785	74237.760	249.626			2015	GPS3085	
NAD83 (1996)	44 51 55.96280	93 07 48.20907	548387.285	243561.703	167148.779	74237.756	249.693	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_B-DP7383-3W-03AUG2023.jpg	W	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_B-DP7383-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_B-DP7383-1-15JUL2014.jpg		Jul 15, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101776.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101776.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1917 C

NGS Name: 1917 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9199](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	28 N	23 W	445244.48	930736.73	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1917 C 2014

IN MENDOTA HEIGHTS, 0.35 MILE SOUTH-SOUTHWEST ALONG SOUTHBOUND TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 62 IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 149 MILEPOINT 5.3, 107.5 FEET WEST OF TRUNK HIGHWAY 149, 34.5 FEET NORTH OF MENDAKOTA DRIVE, 4.0 FEET NORTHEAST OF 6 INCH MAPLE TREE, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.610	0.016	270.544	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.970 12B = -89.977 09 = -89.915 03 = -89.741

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_C-DP9199-3N-03AUG2023.jpg	N	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_C-DP9199-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_C-DP9199-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101777.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101777.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1917 D

NGS Name: 1917 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9194](#) [Get Map](#)
NGS Quad / Sta Num : 44093114/
USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	24	28 N	23 W	445340.15	930731.75	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1917 D 2014

IN MENDOTA HEIGHTS, 0.8 MILE NORTHEAST ALONG NORTHBOUND TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 62 IN MENDOTA HEIGHTS TO TRUNK HIGHWAY 149 MILEPOINT 6.45, THEN 0.3 MILE WEST ON BACHELOR AVENUE, 31.9 FEET NORTH OF BACHELOR AVENUE, 33.1 FEET WEST OF A POWER POLE WITH TWO GUY WIRES, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	868.620	0.016	264.756	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.911 12B = -89.911 09 = -89.855 03 = -89.678

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 40.14840	93 07 31.74872	549548.104	254116.478	167502.597	77454.858	237.348			2021	GPS3438	
NAD83 (1996)	44 53 40.14815	93 07 31.74900	549548.084	254116.453	167502.591	77454.850	237.405	C		2021	HD0DD2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_D-DP9194-3N-01OCT2020.jpg	N	Oct 1, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_D-DP9194-2-01OCT2020.jpg		Oct 1, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_D-DP9194-1-01OCT2020.jpg		Oct 1, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101779.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101779.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1917 E

NGS Name: 1917 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7384](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	24	28 N	23 W	445418.43	930649.08	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1917 E 2014

IN MENDOTA HEIGHTS, 1.6 MILES NORTHEAST ALONG TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 110 IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 149 MILEPOINT 7.25, 125.0 FEET SOUTH-SOUTHWEST OF EMERSON AVENUE, 39.5 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 149, 37.9 FEET SOUTH-SOUTHWEST OF AN EXIT FROM A PARKING LOT, 2.2 FEET WEST-NORTHWEST OF THE EDGE OF A SIDEWALK.

Station Notes

THE WITNESS POST WAS FOUND REMOVED AND THE WITNESS SIGN WAS FOUND BY THE SOMERSET HEIGHTS ELEMENTARY SCHOOL STAFF ON 5/1/2020.
 THE MARK WAS DESTROYED BY CONSTRUCTION.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	926.245	0.016	282.320	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.947 12B = -89.947 09 = -89.885 03 = -89.711

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 54 18.42662	93 06 49.07609	552610.490	258000.788	168436.014	78638.798	254.901			2015	GPS3085	
NAD83 (1996)	44 54 18.42637	93 06 49.07636	552610.471	258000.763	168436.008	78638.790	254.971	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_E-DP7384-3W-28AUG2020.jpg	W	Aug 28, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_E-DP7384-2-31AUG2020.jpg		Aug 31, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_E-DP7384-1-28AUG2020.jpg		Aug 28, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101784.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101784.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1917 F

NGS Name: 1917 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9195](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	13	28 N	23 W	445442.10	930627.79	2	C	2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1917 F 2014

IN MENDOTA HEIGHTS, 0.15 MILE SOUTHWEST ALONG TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND COUNTY ROAD 63 IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 149 MILEPOINT 7.8, 30.7 FEET SOUTHEAST OF TRUNK HIGHWAY 149, 28.3 FEET NORTHEAST OF ASHLEY LANE, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	996.117	0.016	303.617	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.964 12B = -89.960 09 = -89.895 03 = -89.724

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>						<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>						
NAD83 (2011)	44 54 42.10381	93 06 27.78885	554136.548	260402.728	168901.158	79370.910	276.200	C	2021	GPS3438				
NAD83 (1996)	44 54 42.10357	93 06 27.78914	554136.527	260402.704	168901.151	79370.903	276.257	C	2021	HDODD2				

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_F-DP9195-3SE-08AUG2023.jpg	SE	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_F-DP9195-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_F-DP9195-1-08AUG2023.jpg		Aug 8, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101780.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101780.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1917 G

NGS Name: 1917 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7385](#) [Get Map](#)
NGS Quad / Sta Num : 44093111/
USGS Quad: ST PAUL EAST

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NW	18	28 N	22 W	445455.43	930609.37	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) Stamping: 1917 G 2014

IN WEST ST. PAUL, 0.25 MILE SOUTHWEST ALONG TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND COUNTY ROAD 63 IN WEST ST. PAUL, AT TRUNK HIGHWAY 149 MILEPOINT 8.15, 30.4 FEET SOUTHEAST OF TRUNK HIGHWAY 149, 15.9 FEET NORTH-NORTHEAST OF AN ENTRANCE TO A HOLIDAY STATION, 8.2 FEET SOUTHEAST OF THE BACK OF A CURB, 2.6 FEET NORTHWEST OF THE EDGE OF A SIDEWALK, 12.2 FEET NORTHWEST OF A FLAGPOLE.

Station Notes

NO WITNESS POST SET IN A MOWED AREA.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1019.375	0.016	310.706	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.983 12B = -89.980 09 = -89.918 03 = -89.747

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 54 55.42495	93 06 09.36774	555458.763	261755.360	169304.170	79783.193	283.284			2021	GPS3438	
NAD83 (1996)	44 54 55.42470	93 06 09.36801	555458.744	261755.335	169304.164	79783.186	283.354	C		2021	HDODD2	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_G-DP7385-3S-08AUG2023.jpg	S	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_G-DP7385-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1917_G-DP7385-1-01OCT2020.jpg		Oct 1, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101781.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101781.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 A

NGS Name: 1918 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	28 N	22 W	445242.00	930448.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1947	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (1989) **Stamping:** 1918 A 1947

0.20 MILE SOUTH FROM THE JUNCTION OF TRUNK HIGHWAY 110 AND SOUTH ROBERT TRAIL, THEN HEAD EAST ON 50TH STREET EAST FOR 0.09 MILE, THEN TURN WEST THROUGH A PARKING LOT AND HEAD SOUTH FOR 0.11 MILE.

Station Notes

STILL DESTROYED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.348 12B = -90.354 09 = -90.315 03 = -90.111

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7028.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7028.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 B

NGS Name: 1918 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4429](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	29	28 N	22 W	445240.02	930451.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19037	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1918 B 1989

IN SUNFISH LAKE, IN THE TOP OF A RAILING AT THE NORTHWEST CORNER OF WESTBOUND TRUNK HIGHWAY 110 BRIDGE NUMBER 19037 OVER COUNTY HIGHWAY 3, 39.5 FEET NORTH-NORTHEAST OF WESTBOUND TRUNK HIGHWAY 110, 35.2 FEET SOUTHEAST OF LIGHT STANDARD NUMBER J-9-C-17, 2.0 FEET EAST-SOUTHEAST OF THE NORTHWEST CORNER OF THE NORTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	972.229	0.016	296.336	0.005	2/1	2000	00000359
NGVD29	972.081	0.016	296.291	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.344 12B = -90.351 09 = -90.311 03 = -90.108

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_B-AH4429-3N-10AUG2023.jpg	N	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_B-AH4429-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_B-AH4429-1-13OCT2011.jpg		Oct 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7029.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7029.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 C

NGS Name: 1918 C

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	28 N	22 W	445237.19	930448.51	2	

NGS ACRN: AH4430	Get Map
NGS Quad / Sta Num : 44093111/	
USGS Quad: ST PAUL EAST	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19803	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1918 C 1989

IN INVER GROVE HEIGHTS, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF EASTBOUND TRUNK HIGHWAY 110 BRIDGE NUMBER 19803 OVER COUNTY HIGHWAY 3, 36.5 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 110, 2.8 FEET NORTHWEST OF AN END STEEL FENCE POST, 2.4 FEET WEST-NORTHWEST OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	973.617	0.016	296.759	0.005	2/1	2000	00000359
NGVD29	973.469	0.016	296.714	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.357 12B = -90.364 09 = -90.321 03 = -90.118

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_C-AH4430-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_C-AH4430-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_C-AH4430-1-13OCT2011.jpg		Oct 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7030.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7030.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 D

NGS Name: 1918 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4431](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	28 N	22 W	445232.54	930436.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19853	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1918 D 1989

IN INVER GROVE HEIGHTS, IN THE TOP OF A RAILING AT THE NORTHWEST CORNER OF EASTBOUND TRUNK HIGHWAY 110 BRIDGE NUMBER 19853 OVER INTERSTATE HIGHWAY 494, 18.5 FEET NORTH-NORTHEAST OF WESTBOUND TRUNK HIGHWAY 110, 0.6 FOOT SOUTHEAST OF THE NORTHWEST CORNER OF THE NORTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	979.152	0.016	298.446	0.005	2/1	2000	00000359
NGVD29	979.007	0.016	298.402	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.400 12B = -90.407 09 = -90.364 03 = -90.157

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_D-AH4431-3N-10AUG2023.jpg	N	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_D-AH4431-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_D-AH4431-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7031.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7031.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 E

NGS Name: 1918 E

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	28 N	22 W	445233.30	930432.81	2	

NGS ACRN: AH4432	Get Map
NGS Quad / Sta Num : 44093111/	
USGS Quad: ST PAUL EAST	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19884	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1918 E 1989

IN INVER GROVE HEIGHTS, IN THE TOP OF A RAILING AT THE NORTHWEST CORNER OF WESTBOUND TRUNK HIGHWAY 110 BRIDGE NUMBER 19884 OVER A CONNECTOR TO WESTBOUND INTERSTATE HIGHWAY 494, 26.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 110, 41.5 FEET EAST-SOUTHEAST OF LIGHT STANDARD NUMBER J-9-C-11, 27.3 FEET SOUTHEAST OF A LARGE OVERHEAD SIGNPOST NUMBER J-9-CW, 1.4 FEET EAST OF THE NORTHWEST CORNER OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	968.338	0.016	295.150	0.005	2/1	2000	00000359
NGVD29	968.194	0.016	295.106	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.407 12B = -90.413 09 = -90.371 03 = -90.167

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_E-AH4432-3N-10AUG2023.jpg	N	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_E-AH4432-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_E-AH4432-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7032.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7032.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 F

NGS Name: 1918 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4433](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	32	28 N	22 W	445232.46	930430.91	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19884	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1918 F 1989

IN INVER GROVE HEIGHTS, IN THE TOP OF A RAILING OF WESTBOUND TRUNK HIGHWAY 110 BRIDGE NUMBER 19884 OVER A CONNECTOR TO WESTBOUND INTERSTATE HIGHWAY 494, 19.0 FEET SOUTH OF WESTBOUND TRUNK HIGHWAY 110, 1.1 FEET NORTH OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	966.766	0.016	294.671	0.005	2/1	2000	00000359
NGVD29	966.622	0.016	294.627	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.413 12B = -90.420 09 = -90.377 03 = -90.174

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_F-AH4433-3S-29AUG2011.jpg	S	Aug 29, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_F-AH4433-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_F-AH4433-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7033.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7033.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 G

NGS Name: 1918 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4434](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	32	28 N	22 W	445229.78	930430.30	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19853	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1918 G 1989

IN INVER GROVE HEIGHTS, AT THE JUNCTION OF TRUNK HIGHWAY 110 AND INTERSTATE HIGHWAY 494, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF EASTBOUND TRUNK HIGHWAY 110 BRIDGE NUMBER 19853 OVER INTERSTATE HIGHWAY 494, 25.5 FEET SOUTH-SOUTHWEST OF EASTBOUND TRUNK HIGHWAY 110, 0.7 FOOT WEST-NORTHWEST OF THE SOUTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	978.302	0.016	298.187	0.005	2/1	2000	00000359
NGVD29	978.157	0.016	298.143	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.426 09 = -90.384 03 = -90.180

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_G-AH4434-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_G-AH4434-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_G-AH4434-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7034.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7034.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 H

NGS Name: 1918 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7386](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	27	28 N	23 W	445300.27	930851.69	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 64 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1918 H 2014

IN MENDOTA HEIGHTS, 0.45 MILE WEST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF TRUNK HIGHWAY 110 AND INTERSTATE HIGHWAY 35E IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 110 MILEPOINT 0.90, 208.4 FEET WEST OF A LEXINGTON AVENUE FOG LINE, 56.2 FEET SOUTH OF AN EASTBOUND TRUNK HIGHWAY 110 FOG LINE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.872	0.016	280.987	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.803 12B = -89.800 09 = -89.731 03 = -89.567

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 00.26725	93 08 51.68919	543801.476	250064.537	165751.021	76219.823	253.624			2015	GPS3085	
NAD83 (1996)	44 53 00.26700	93 08 51.68946	543801.457	250064.512	165751.016	76219.816	253.693		C	2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_H-DP7386-3S-02AUG2023.jpg	S	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_H-DP7386-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_H-DP7386-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101785.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101785.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 J

NGS Name: 1918 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7387](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
SW	25	28 N	23 W	445300.57	930731.72	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1918 J 2014

IN MENDOTA HEIGHTS, AT THE JUNCTION OF TRUNK HIGHWAY 149 (DODD ROAD) AND TRUNK HIGHWAY 62, AT TRUNK HIGHWAY 62 MILEPOINT 2.0, 41.7 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 62, 85.9 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 149, 11.5 FEET WEST OF A RIGHT-OF-WAY POST, BACK OF A CONCRETE CURB, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	852.459	0.016	259.830	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.960 12B = -89.964 09 = -89.908 03 = -89.731

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 53 00.57353	93 07 31.72413	549559.285	250108.291	167506.005	76233.160	232.420	2021	C	2021	GPS3438	
NAD83 (1996)	44 53 00.57327	93 07 31.72439	549559.266	250108.265	167505.999	76233.152	232.491	2021	C	2021	HDODD2	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_J-DP7387-3S-02AUG2023.jpg	S	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_J-DP7387-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_J-DP7387-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101778.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101778.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1918 K

NGS Name: 1918 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9196](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	30	28 N	22 W	445259.59	930620.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 48 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1918 K 2014

IN SUNFISH LAKE, AT THE JUNCTION OF TRUNK HIGHWAY 110 AND COUNTY ROAD 63/DELAWARE ROAD IN SUNFISH LAKE, AT TRUNK HIGHWAY 110 MILEPOINT 3.0, 44.7 FEET SOUTH OF AN EASTBOUND TRUNK HIGHWAY 110/FOG LINE, 69.4 FEET EAST OF COUNTY ROAD 63/DELAWARE ROAD, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	931.832	0.016	284.023	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.108 12B = -90.108 09 = -90.065 03 = -89.875

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_K-DP9196-3S-02AUG2023.jpg	S	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_K-DP9196-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1918_K-DP9196-1-16JUL2014.jpg		Jul 16, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101786.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101786.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1919 A

NGS Name: 1919 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0882](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	24	114 N	21 W	444022.43	931736.20	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1947	2022	GOOD	Horz=NO Vert=NO	YES	6556	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1919 A 1947

IN LAKEVILLE, 2.1 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 50, IN THE SOUTHEAST ABUTMENT OF BRIDGE NUMBER 6556 ALONG KENRICK AVENUE OVER A CHANNEL OF MARION LAKE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	989.644	0.016	301.644	0.005	2/1	2016	00000879
NGVD29	989.486	0.016	301.596	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.079 12B = -90.085 09 = -90.023 03 = -89.819

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1919_A-PP0882-3E-03NOV2022.jpg	E	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1919_A-PP0882-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1919_A-PP0882-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7035.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7035.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1919 B

NGS Name: 1919 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	114 N	21 W	443836.00	931736.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1949	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1973) **Stamping:** 1919 B

3.0 MILES WEST SOUTH-WEST OF LAKEVILLE, 0.14 MILE SOUTH ALONG KENRICK AVENUE FROM THE JUNCTION OF 210TH STREET WEST AND KENRICK AVENUE.

Station Notes
THE AREA IS DEVELOPED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.371 12B = -90.374 09 = -90.325 03 = -90.115

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7036.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7036.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 A

NGS Name: 1920 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4314](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	112 N	19 W	442830.00	930906.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1992	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	BENCH MARK DISK	MNDT

Description: (1992) **Stamping:** 1920 A 1958

1.3 MILES NORTH OF NORTHFIELD, AT TRUNK HIGHWAY 3 MILEPOINT 14.25, 0.6 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47, 1500.0 FEET NORTH OF COUNTY LINE, 42.5 FEET EAST OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 567+71, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 3 BOX CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	925.815	0.016	282.189	0.005	2/1	2011	00000676
NGVD29	925.763	0.016	282.173	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.228 12B = -93.268 09 = -93.208 03 = -93.054

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7038.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7038.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 A 1

NGS Name: 1920 A 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4309](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	112 N	19 W	443030.00	930842.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1992	DESTROYED	Horz=NO Vert=NO	NO	3913	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1992) **Stamping:** 1920 A1 1948

3.4 MILES NORTH OF NORTHFIELD, AT TRUNK HIGHWAY 3 MILEPOINT 16.75, 1.6 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 1 AT WATERFORD, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 3 BRIDGE NUMBER 3913, AT TRUNK HIGHWAY 3 STATION 697+50, 22.0 FEET EAST OF TRUNK HIGHWAY 3.

Station Notes

NEW BOX CULVERT PLACED WHERE THE BRIDGE WAS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.370	0.016	280.834	0.005	2/1	2011	00000676
NGVD29	921.310	0.016	280.816	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.212 12B = -93.241 09 = -93.186 03 = -93.028

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7039.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7039.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AA

NGS Name: 1920 AA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4289](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	19	113 N	19 W	443500.58	930813.25	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2014	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 AA 1992

3.25 MILES SOUTH OF FARMINGTON, 3.25 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, 450.0 FEET NORTHWEST OF MILEPOST 22, 75.0 FEET SOUTH OF A DRIVEWAY TO HOUSE NUMBER 25251, 55.0 FEET WEST OF TRUNK HIGHWAY 3, 7.5 FEET SOUTHWEST OF A TELEPHONE POLE, 8.0 FEET EAST OF A FENCE, 6.5 FEET SOUTHWEST OF A CABLE BOX.

Station Notes

FOUND DESTROYED, THE DISK HAS BEEN REMOVED, NEEDS TO BE RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1020.149	0.016	310.942	0.005	2/1	2011	00000676
NGVD29	1020.034	0.016	310.907	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.874 12B = -92.894 09 = -92.841 03 = -92.647

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AA-DM4289-3W-24OCT2006.jpg	W	Oct 24, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AA-DM4289-2-24OCT2006.jpg		Oct 24, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AA-DM4289-1-24OCT2006.jpg		Oct 24, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7040.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7040.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AA RESET

NGS Name: 1920 AA RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8555](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	19	113 N	19 W	443500.58	930813.25	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1920 AA RESET 2014

3.25 MILES SOUTH OF FARMINGTON, 3.25 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 22.10, 75.0 FEET SOUTH OF A DRIVEWAY TO HOUSE NUMBER 25251, 75.0 FEET SOUTHWEST OF A POWER POLE, 55.0 FEET WEST OF TRUNK HIGHWAY 3, 8.0 FEET EAST OF A FENCE, 7.6 FEET EAST OF A WITNESS POST.

Station Pair: 1920 Z - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1019.965	0.016	310.886	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.874 12B = -92.894 09 = -92.841 03 = -92.647

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 35 00.57630	93 08 13.24925	546810.586	140721.351	166668.200	42891.954	282.579			2015	GPS3101	
NAD83 (1996)	44 35 00.57628	93 08 13.24963	546810.559	140721.349	166668.192	42891.953	282.647	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AA_RESET-DP8555-3NW-28OCT2022.jpg	NW	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AA_RESET-DP8555-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AA_RESET-DP8555-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102732.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102732.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AB

NGS Name: 1920 AB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4287](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	17	113 N	19 W	443534.04	930811.51	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 AB 1992

2.5 MILES SOUTH OF FARMINGTON, 2.5 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, 62.0 FEET EAST OF TRUNK HIGHWAY 3, 32.0 FEET SOUTH OF AN ENTRANCE TO HOUSE NUMBER 24615 (WEST SIDE OF ROAD), 5.0 FEET SOUTHEAST OF A POWER POLE WITH ANCHOR, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes

THE DISK TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1009.801	0.016	307.788	0.005	2/1	2011	00000676
NGVD29	1009.683	0.016	307.752	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.818 12B = -92.838 09 = -92.785 03 = -92.588

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AB-DM4287-3E-24AUG2011.jpg	E	Aug 24, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AB-DM4287-2-31AUG2011.jpg		Aug 31, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AB-DM4287-1-24OCT2006.jpg		Oct 24, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7041.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7041.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AB RESET

NGS Name: 1920 AB RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1127](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	17	113 N	19 W	443534.04	930811.50	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1920 AB RESET 2014

2.6 MILES SOUTH OF FARMINGTON, 2.6 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 22.75, 62.0 FEET EAST OF TRUNK HIGHWAY 3, 32.0 FEET SOUTH OF A DRIVEWAY TO HOUSE NUMBER 24615 EXTENDED, 5.0 FEET SOUTHEAST OF A POWER POLE WITH A GUY WIRE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1009.624	0.016	307.734	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.818 12B = -92.838 09 = -92.785 03 = -92.588

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AB_RESET-DQ1127-3E-28OCT2022.jpg	E	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AB_RESET-DQ1127-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AB_RESET-DQ1127-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102736.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102736.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AC

NGS Name: 1920 AC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4284](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	113 N	19 W	443632.04	930813.40	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 6 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 AC 1992

1.5 MILES SOUTH OF FARMINGTON, 1.5 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, AT TRUNK HIGHWAY 3 MILEPOINT 23.9, 66.0 FEET WEST OF TRUNK HIGHWAY 3, 22.5 FEET NORTH OF A TELEPHONE PEDESTAL, 16.5 FEET SOUTH OF A FIELD ENTRANCE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	953.981	0.016	290.774	0.005	2/1	2016	00000879
NGVD29	953.856	0.016	290.736	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.707 12B = -92.720 09 = -92.667 03 = -92.464

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AC-DM4284-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AC-DM4284-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AC-DM4284-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7042.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7042.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AD

NGS Name: 1920 AD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4283](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	8	113 N	19 W	443657.98	930811.53	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 AD 1992

1.0 MILE SOUTH OF FARMINGTON, 1.0 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, 72.0 FEET EAST OF TRUNK HIGHWAY 3 AT AN ENTRANCE TO HOUSE NUMBER 23065, 8.0 FEET NORTH OF A FIELD ENTRANCE, 2.2 FEET WEST-SOUTHWEST OF A FIBER OPTIC CABLE POST.

Station Notes

POOR CONDITION, LEANING SOUTH. NOT SURE IF IT CAN BE REPAIRED.
THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	910.973	0.016	277.665	0.005	2/1	2011	00000676
NGVD29	910.841	0.016	277.625	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.664 12B = -92.674 09 = -92.621 03 = -92.411

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AD-DM4283-3E-24OCT2006.jpg	E	Oct 24, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AD-DM4283-2-24OCT2006.jpg		Oct 24, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AD-DM4283-1-24OCT2006.jpg		Oct 24, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7043.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7043.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AD RESET

NGS Name: 1920 AD RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8556](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	8	113 N	19 W	443657.98	930811.53	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1920 AD RESET 2014

1.0 MILE SOUTH OF FARMINGTON, 1.0 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 24.35, 72.0 FEET EAST OF TRUNK HIGHWAY 3, 8.0 FEET NORTH OF A FIELD ENTRANCE, 2.2 FEET WEST-SOUTHWEST OF A FIBER OPTIC CABLE POST, 1.6 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	910.769	0.016	277.603	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.664 12B = -92.674 09 = -92.621 03 = -92.411

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 57.97829	93 08 11.52697	546908.941	152611.615	166698.179	46516.113	249.355			2015	GPS3101	
NAD83 (1996)	44 36 57.97828	93 08 11.52734	546908.914	152611.614	166698.170	46516.113	249.425	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AD_RESET-DP8556-3E-28OCT2022.jpg	E	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AD_RESET-DP8556-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AD_RESET-DP8556-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102738.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102738.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AE

NGS Name: 1920 AE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4280](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	6	113 N	19 W	443724.18	930813.19	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1920 AE 1992

0.5 MILE SOUTH OF FARMINGTON, 0.5 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 24.85, 54.0 FEET WEST OF TRUNK HIGHWAY 3 AT 225TH STREET, 79.0 FEET SOUTH OF DRIVEWAY NUMBER 22547, 55.0 FEET NORTH OF A TELEPHONE PEDESTAL, 0.6 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.686	0.016	280.321	0.005	2/1	2016	00000879
NGVD29	919.552	0.016	280.280	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.605 12B = -92.611 09 = -92.559 03 = -92.346

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AE-DM4280-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AE-DM4280-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AE-DM4280-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7044.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7044.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AF

NGS Name: 1920 AF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AA5382](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	114 N	19 W	443755.85	930811.78	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	VERTICAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** 1920 AF 1992

IN FARMINGTON, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY HIGHWAY 50 (220TH STREET EAST), 70.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 3, 24.0 FEET EAST OF A FRONTAGE ROAD, 43.0 FEET NORTH OF A SHOPPING CENTER ENTRANCE. IN THE SOUTHWEST CORNER OF THE FOOTING OF THE FARMINGTON MALL SHOPPING CENTER SIGN.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	903.548	0.016	275.402	0.005	2/1	2016	00000879
NGVD29	903.404	0.016	275.358	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.536 12B = -92.542 09 = -92.490 03 = -92.273

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AF-AA5382-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AF-AA5382-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AF-AA5382-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7045.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7045.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AG

NGS Name: 1920 AG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO6836](#) [Get Map](#)
NGS Quad / Sta Num : 44093214/
USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	30	112 N	19 W	442820.29	930915.16	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1920 AG 2011

IN THE NORTH EDGE OF NORTHFIELD, 0.85 MILE SOUTHWEST OF WATERFORD, 0.85 MILE SOUTHWEST ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 14.1, 79.70 FEET SOUTHEAST OF TRUNK HIGHWAY 3, 171.80 FEET NORTHEAST OF AN ENTRANCE TO A JOHN DEERE DEALER, 12.7 FEET SOUTH OF A CABLE BOX, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	941.317	0.016	286.914	0.005	2/1	2013	00000795

Geoid Separations(ft): GEOID18 = -93.205 12B = -93.245 09 = -93.186 03 = -93.031

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 28 20.29284	93 09 15.15814	542410.620	100173.236	165327.088	30532.864	258.516			2014	GPS3021	
NAD83 (1996)	44 28 20.29261	93 09 15.15824	542410.613	100173.213	165327.085	30532.856	258.558	C		2012	HNORTH	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AG-DO6836-3S-25OCT2022.jpg	S	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AG-DO6836-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AG-DO6836-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94663.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94663.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AH

NGS Name: 1920 AH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO6835](#) [Get Map](#)
NGS Quad / Sta Num : 44093214/
USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	30	112 N	19 W	442856.39	930844.31	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1920 AH 2011

IN WATERFORD, AT THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 14.95, 65.3 FEET EAST OF TRUNK HIGHWAY 3, 50.40 FEET NORTH OF COUNTY ROAD 47, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	920.172	0.016	280.469	0.005	2/1	2013	00000795

Geoid Separations(ft): GEOID18 = -93.284 12B = -93.320 09 = -93.261 03 = -93.107

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 28 56.38956	93 08 44.31296	544639.720	103833.490	166006.519	31648.511	252.047	2014	C	GPS3021		
NAD83 (1996)	44 28 56.38939	93 08 44.31311	544639.709	103833.472	166006.515	31648.506	252.089	2012	C	HNORTH		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AH-DO6835-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AH-DO6835-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AH-DO6835-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94664.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94664.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 AJ

NGS Name: 1920 AJ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8557](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	7	113 N	19 W	443607.18	930813.44	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) Stamping: 1920 AJ 2015

2.0 MILES SOUTH OF FARMINGTON, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 23.4, 74.0 FEET WEST OF TRUNK HIGHWAY 3, 129.2 FEET NORTH OF COUNTY ROAD 78 (240TH STREET WEST), 11.5 FEET SOUTH OF A CABLE BOX, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	971.458 0.016	296.101 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -92.749 12B = -92.766 09 = -92.716 03 = -92.516

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year Reference					
NAD83 (2011)	44 36 07.17969	93 08 13.43905	546781.972	147466.630	166659.479	44947.919	267.833	2018	GPS3119			
NAD83 (1996)	44 36 07.17936	93 08 13.43951	546781.939	147466.597	166659.468	44947.909	267.890	C	2017 HMNCORS			

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AJ-DP8557-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AJ-DP8557-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_AJ-DP8557-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103176.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103176.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 B

NGS Name: 1920 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4308](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	112 N	19 W	443042.00	930842.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	1992	DESTROYED	Horz=NO Vert=NO	NO	3914	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1992) **Stamping:** 1920 B 1948

3.8 MILES NORTH OF NORTHFIELD, AT TRUNK HIGHWAY 3 MILEPOINT 17.0, 1.8 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 1 AT WATERFORD, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 3 BRIDGE NUMBER 3914 OVER A CREEK, 22.0 FEET EAST OF TRUNK HIGHWAY 3.

Station Notes

BRIDGE REPLACED, NEW BRIDGE NUMBER 19095 HAS AN UNSTAMPED DISK ON THE TOP OF THE BRIDGE RAIL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	922.872	0.016	281.292	0.005	2/1	2011	00000676
NGVD29	922.810	0.016	281.273	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.199 12B = -93.225 09 = -93.172 03 = -93.012

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7046.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7046.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 C

NGS Name: 1920 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DK4204	Get Map
NGS Quad / Sta Num : 44093214/	
USGS Quad: NORTHFIELD	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	19	112 N	19 W	442908.83	930845.94	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	1992	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1920 C 1958

2.0 MILES NORTH OF NORTHFIELD, AT TRUNK HIGHWAY 3 MILEPOINT 15.2, IN THE NORTHWEST CORNER OF THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 96 (320TH STREET), 68.5 FEET WEST OF TRUNK HIGHWAY 3, 27.5 FEET NORTH OF COUNTY ROAD 96.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	940.576	0.016	286.688	0.005	2/1	2011	00000676
NGVD29	940.520	0.016	286.671	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.271 12B = -93.304 09 = -93.248 03 = -93.094

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 29 08.83507	93 08 45.94422	544518.807	105093.654	165969.664	32032.610	258.268			2012	GPS2800	
NAD83 (2007)	44 29 08.83515	93 08 45.94493	544518.756	105093.662	165969.649	32032.612	258.293	C		2009	GPS2437	
NAD83 (1996)	44 29 08.83488	93 08 45.94436	544518.797	105093.634	165969.661	32032.604	258.345	C		2008	GPS2437	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_C-DK4204-3W-13SEP2006.jpg	W	Sep 13, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_C-DK4204-2-13SEP2006.jpg		Sep 13, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_C-DK4204-1-13SEP2006.jpg		Sep 13, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7047.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7047.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 D

NGS Name: 1920 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4311](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	112 N	19 W	443005.30	930843.49	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1920 D 1958

3.1 MILES NORTH OF NORTHFIELD, 1.4 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 16.3, 58.7 FEET EAST OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 671+50, 40.5 FEET NORTH OF DRIVEWAY NUMBER 30940, 14.0 FEET WEST-NORTHWEST OF A CABLE BOX, 1.3 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	936.635	0.016	285.487	0.005	2/1	2016	00000879
NGVD29	936.576	0.016	285.469	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.231 12B = -93.264 09 = -93.208 03 = -93.051

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 30 05.29841	93 08 43.48891	544684.791	110812.327	166020.256	33775.665	257.076					2014	GPS3021	
NAD83 (1996)	44 30 05.29828	93 08 43.48903	544684.782	110812.314	166020.254	33775.661	257.125	C				2012	HNORTH	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_D-DM4311-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_D-DM4311-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_D-DM4311-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7048.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7048.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 G

NGS Name: 1920 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4288](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	113 N	19 W	443514.16	930813.11	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2014) **Stamping:** 1920 G 1958

3.7 MILES SOUTH OF FARMINGTON, 3.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 22.3, 56.0 FEET WEST OF TRUNK HIGHWAY 3, 51.0 FEET NORTH OF WEST 250TH STREET WEST, 23.8 FEET NORTHWEST OF A STREET SIGN, 41.3 FEET NORTHEAST OF A POWER POLE, 17.0 FEET NORTH-NORTHEAST OF A TELEPHONE PEDESTAL NUMBER 701, 0.5 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1002.613	0.016	305.597	0.005	2/1	2016	00000879
NGVD29	1002.498	0.016	305.562	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.851 12B = -92.867 09 = -92.815 03 = -92.621

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_G-DM4288-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_G-DM4288-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_G-DM4288-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7049.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7049.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 J

NGS Name: 1920 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4304](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	112 N	19 W	443126.34	930824.90	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1920 J 1973

4.7 MILES NORTH OF NORTHFIELD, 3.0 MILES NORTHEAST AND NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 17.9, AT TRUNK HIGHWAY 3 STATION 758+39, 23.0 FEET SOUTHEAST OF TRUNK HIGHWAY 3, IN THE SOUTH END OF THE EAST HEADWALL OF A TRUNK HIGHWAY 3 BOX CULVERT, 1.8 FEET NORTHEAST OF A WITNESS POST.

Station Notes

SET IN 1958 BUT STAMPED IN 1973.
 THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.924	0.016	281.003	0.005	2/1	2016	00000879
NGVD29	921.862	0.016	280.984	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.199 12B = -93.222 09 = -93.172 03 = -93.008

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_J-DM4304-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_J-DM4304-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_J-DM4304-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7050.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7050.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 K

NGS Name: 1920 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4303](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	8	112 N	19 W	443139.09	930817.71	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2014	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2021) **Stamping:** 1920 K 1973

5 MILES NORTH OF NORTHFIELD, 1.1 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 86, AT TRUNK HIGHWAY 3 STATION 772+23, AT TRUNK HIGHWAY 3 MILEPOINT 18.2, 24.5 FEET EAST OF TRUNK HIGHWAY 3, IN THE SOUTH END OF THE EAST HEADWALL OF TRUNK HIGHWAY 3 BOX CULVERT.

Station Notes

THE MARK WAS SET IN 1958 BUT STAMPED IN 1973.
 THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.914	0.016	281.000	0.005	2/1	2016	00000879
NGVD29	921.849	0.016	280.980	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.208 12B = -93.228 09 = -93.176 03 = -93.015

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_K-DM4303-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_K-DM4303-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_K-DM4303-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7051.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7051.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 L

NGS Name: 1920 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4300](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	112 N	19 W	443211.73	930811.70	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2014) **Stamping:** 1920 L 1973

5.6 MILES NORTH OF NORTHFIELD, 3.6 MILES NORTH ALONG AT TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 18.85, 23.5 FEET EAST OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 805+83, IN THE SOUTH END OF THE EAST HEADWALL OF A TRUNK HIGHWAY 3 BOX CULVERT, 1.6 FEET NORTH OF A WITNESS POST.

Station Notes

SET IN 1958 BUT STAMPED IN 1973.
 THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.747	0.016	280.949	0.005	2/1	2016	00000879
NGVD29	921.688	0.016	280.931	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.179 12B = -93.199 09 = -93.146 03 = -92.979

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_L-DM4300-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_L-DM4300-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_L-DM4300-1-07SEP2011.jpg		Sep 7, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7052.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7052.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 M

NGS Name: 1920 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4297](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	112 N	19 W	443235.50	930811.75	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2022	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2014) **Stamping:** 1920 M 1973

6.7 MILES SOUTH OF FARMINGTON, 6.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 19.25, 167.0 FEET SOUTH OF COUNTY ROAD 86, 24.5 FEET EAST OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 830+08, 3.3 FEET NORTH OF A WITNESS POST, IN THE SOUTH END OF THE EAST HEADWALL OF A TRUNK HIGHWAY 3 BOX CULVERT.

Station Notes
NEW CULVERT AND GUARD RAIL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	922.190	0.016	281.084	0.005	2/1	2016	00000879
NGVD29	922.095	0.016	281.055	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.140 12B = -93.159 09 = -93.110 03 = -92.936

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_M-DM4297-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_M-DM4297-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_M-DM4297-1-08SEP2011.jpg		Sep 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7053.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7053.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 N

NGS Name: 1920 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4313](#) [Get Map](#)
NGS Quad / Sta Num : 44093214/
USGS Quad: NORTHFIELD

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	19	112 N	19 W	442935.25	930845.51	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1992) Stamping: 1920 N 1992

2.2 MILES NORTH OF NORTHFIELD, 0.7 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 15.7, 65.0 FEET WEST OF TRUNK HIGHWAY 3, 25.0 FEET NORTH OF 315TH STREET WEST, 7.0 FEET EAST OF A POWER POLE WITH AN ANCHOR, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	968.774	0.016	295.283	0.005	2/1	2016	00000879
NGVD29	968.719	0.016	295.266	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.254 12B = -93.284 09 = -93.228 03 = -93.074

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 29 35.24525	93 08 45.51371	544544.413	107768.397	165977.469	32847.873	266.852	3	2020	GPSBM		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_N-DM4313-3W-25OCT2022.jpg	W	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_N-DM4313-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_N-DM4313-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7054.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7054.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 P

NGS Name: 1920 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4310](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	112 N	19 W	443023.57	930843.14	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1992) **Stamping:** 1920 P 1992

3.5 MILES NORTH OF NORTHFIELD, 1.8 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 16.7, 71.0 FEET EAST OF TRUNK HIGHWAY 3, 200.0 FEET SOUTH OF DRIVEWAY NUMBER 30563 EXTENDED, 4.0 FEET NORTH OF A POWER POLE WITH TWO ANCHORS, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	929.188	0.016	283.217	0.005	2/1	2016	00000879
NGVD29	929.106	0.016	283.192	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.215 12B = -93.245 09 = -93.189 03 = -93.031

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_P-DM4310-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_P-DM4310-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_P-DM4310-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7055.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7055.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 Q

NGS Name: 1920 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4307](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	112 N	19 W	443053.99	930842.87	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 47 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 Q 1992

3.75 MILES NORTH OF NORTHFIELD, 2.3 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 17.25, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 3 AND 300TH STREET WEST, 71.0 FEET EAST OF TRUNK HIGHWAY 3, 42.0 FEET NORTH OF 300TH STREET WEST, 10.0 FEET NORTH OF A POWER POLE, 0.8 FOOT WEST OF A WITNESS POST.

Station Pair: WATER - DAKOTA, MN

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.547	0.016	280.888	0.005	2/1	2016	00000879
NGVD29	921.488	0.016	280.870	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.179 12B = -93.208 09 = -93.156 03 = -92.995

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 30 53.99297	93 08 42.87010	544719.260	115743.949	166030.763	35278.826	252.493			2015	GPS3101	
NAD83 (1996)	44 30 53.99275	93 08 42.87025	544719.249	115743.927	166030.759	35278.819	252.543	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Q-DM4307-3E-31AUG2011.jpg	E	Aug 31, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Q-DM4307-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Q-DM4307-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7056.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7056.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 R

NGS Name: 1920 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4305](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	112 N	19 W	443120.02	930833.99	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 51 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 R 1992

4.25 MILES NORTH OF NORTHFIELD, 2.8 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD AT TRUNK HIGHWAY 3 MILEPOINT 17.78, 65.0 FEET WEST OF TRUNK HIGHWAY 3, 116.0 FEET SOUTH OF THE SOUTHEAST CORNER OF HOUSE NUMBER 29479, 20.0 FEET SOUTH OF A POWER POLE, 0.9 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	926.478	0.016	282.391	0.005	2/1	2016	00000879
NGVD29	926.409	0.016	282.370	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.176 12B = -93.202 09 = -93.149 03 = -92.985

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_R-DM4305-3W-25OCT2022.jpg	W	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_R-DM4305-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_R-DM4305-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7057.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7057.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 S

NGS Name: 1920 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4302](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	8	112 N	19 W	443143.50	930815.30	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 31 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 S 1992

4.5 MILES NORTH OF NORTHFIELD, 3.0 MILES NORTH ALONG TRUNK HIGHWAY 3 AT MILEPOINT 18.31 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, 68.0 FEET EAST OF TRUNK HIGHWAY 3, 179.0 FEET SOUTH OF A DRIVEWAY TO HOUSE NUMBER 29020, 100.0 FEET SOUTH OF A POWER POLE, 1.5 FEET WEST OF A WOOD POST, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	925.356	0.016	282.049	0.005	2/1	2016	00000879
NGVD29	925.267	0.016	282.022	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.208 12B = -93.228 09 = -93.179 03 = -93.015

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)				County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 31 43.50497	93 08 15.29672	546706.287	120762.570	166636.410	36808.505	253.659					2015	GPS3101	
NAD83 (1996)	44 31 43.50494	93 08 15.29710	546706.260	120762.567	166636.401	36808.504	253.724	C				2015	HFARM2	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_S-DM4302-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_S-DM4302-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_S-DM4302-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7058.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7058.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 T

NGS Name: 1920 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4301](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	5	112 N	19 W	443205.28	930810.99	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 31 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 T 1992

5.0 MILES NORTH OF NORTHFIELD, 3.5 MILES NORTH ALONG TRUNK HIGHWAY 3 AT MILEPOINT 18.73 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 (IN WATERFORD), 73.0 FEET EAST OF TRUNK HIGHWAY 3, 26.0 FEET SOUTH OF A DRIVE TO HOUSE NUMBER 28620, 3.0 FEET EAST OF A POWER POLE WITH AN ANCHOR, 1.2 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.716	0.016	280.330	0.005	2/1	2016	00000879
NGVD29	919.644	0.016	280.308	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.192 12B = -93.212 09 = -93.159 03 = -92.992

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_T-DM4301-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_T-DM4301-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_T-DM4301-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7059.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7059.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 U

NGS Name: 1920 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4296](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	113 N	19 W	443241.56	930813.14	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 U 1992

6.0 MILES SOUTH OF FARMINGTON, 5.9 MILES SOUTH ALONG TRUNK HIGHWAY 3 AT MILEPOINT 19.47 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, 72.0 FEET WEST OF TRUNK HIGHWAY 3, 64.0 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE POLY-TEX COUNTY BUILDING, 2.0 FEET SOUTH OF A FENCE CORNER, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	947.702	0.016	288.860	0.005	2/1	2016	00000879
NGVD29	947.606	0.016	288.831	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.126 12B = -93.146 09 = -93.097 03 = -92.920

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_U-DM4296-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_U-DM4296-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_U-DM4296-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7060.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7060.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 V

NGS Name: 1920 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4295](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	31	113 N	19 W	443306.27	930813.09	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1992) **Stamping:** 1920 V 1992

5.5 MILES SOUTH OF FARMINGTON, 5.5 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, AT TRUNK HIGHWAY 3 MILEPOINT 27.95, 66.0 FEET WEST OF TRUNK HIGHWAY 3, 250.0 FEET NORTH OF 275TH STREET WEST, 95.0 FEET NORTH OF AN ENTRANCE TO HOUSE NUMBER 27472, 152.5 FEET SOUTH OF A POWER POLE, 60.5 FEET NORTH OF A POWER POLE, 4.0 FEET EAST OF A POWER POLE WITH AN ANCHOR, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	942.682	0.016	287.330	0.005	2/1	2016	00000879
NGVD29	942.567	0.016	287.295	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.084 12B = -93.103 09 = -93.054 03 = -92.874

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_V-DM4295-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_V-DM4295-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_V-DM4295-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7061.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7061.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 W

NGS Name: 1920 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4292](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	113 N	19 W	443405.33	930811.47	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 W 1992

4.25 MILES SOUTH OF FARMINGTON, 4.25 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, AT TRUNK HIGHWAY 3 MILEPOINT 21.00, 175.0 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 3 MILEPOST 21, 70.0 FEET EAST OF TRUNK HIGHWAY 3, 35.0 FEET NORTH OF 263RD STREET, 3.0 FEET WEST OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	954.686	0.016	290.989	0.005	2/1	2016	00000879
NGVD29	954.581	0.016	290.957	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.982 12B = -93.002 09 = -92.949 03 = -92.762

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_W-DM4292-3E-28OCT2022.jpg	E	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_W-DM4292-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_W-DM4292-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7062.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7062.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 X

NGS Name: 1920 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4293](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	30	113 N	19 W	443349.69	930813.33	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1920 X 1992

4.6 MILES SOUTH OF FARMINGTON, 4.6 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, AT TRUNK HIGHWAY 3 MILEPOINT 20.85, 67.0 FEET WEST OF TRUNK HIGHWAY 3 AT HOUSE NUMBER 26601, 62.0 FEET NORTH OF A NURSERY ENTRANCE, 7.0 FEET EAST OF SWITZERS NURSERY SIGNPOST, IN THE WOOD CHIP FLOWER BED OF SWITZERS NURSERY SIGN, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	971.661	0.016	296.163	0.005	2/1	2016	00000879
NGVD29	971.560	0.016	296.132	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.002 12B = -93.025 09 = -92.972 03 = -92.785

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)				County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 33 49.68591	93 08 13.32782	546820.737	133541.878	166671.294	40703.646	267.837					2015	GPS3101	
NAD83 (1996)	44 33 49.68590	93 08 13.32820	546820.710	133541.877	166671.286	40703.646	267.905	C				2015	HFARM2	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_X-DM4293-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_X-DM4293-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_X-DM4293-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7063.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7063.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 Y

NGS Name: 1920 Y

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4291](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	113 N	19 W	443419.13	930811.47	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1992) **Stamping:** 1920 Y 1992

4.0 MILES SOUTH OF FARMINGTON, 4.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, AT TRUNK HIGHWAY 3 MILEPOINT 21.3, 69.0 FEET EAST OF TRUNK HIGHWAY 3, 86.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A GARAGE AT HOUSE NUMBER 26078, 3.5 FEET WEST OF A POWER POLE, 3.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	980.493	0.016	298.855	0.005	2/1	2016	00000879
NGVD29	980.385	0.016	298.822	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.956 12B = -92.976 09 = -92.923 03 = -92.736

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Y-DM4291-3E-28OCT2022.jpg	E	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Y-DM4291-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Y-DM4291-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7064.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7064.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1920 Z

NGS Name: 1920 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DM4290	Get Map
NGS Quad / Sta Num : 44093123/	
USGS Quad: CASTLE ROCK	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	20	113 N	19 W	443438.71	930811.46	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1920 Z 1992

3.5 MILES SOUTH OF FARMINGTON, 3.5 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 EAST, AT TRUNK HIGHWAY 3 MILEPOINT 21.75, 67.0 FEET EAST OF TRUNK HIGHWAY 3, 750.0 FEET SOUTH OF 255TH STREET WEST, 4.0 FEET WEST OF A POWER POLE, 4.0 FEET WEST OF A WITNESS POST.

Station Pair: 1920 AA RESET - DAKOTA, MN

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	958.679	0.016	292.206	0.005	2/1	2016	00000879
NGVD29	958.568	0.016	292.172	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.920 12B = -92.939 09 = -92.887 03 = -92.697

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 34 38.70853	93 08 11.46480	546944.641	138506.965	166709.060	42217.007	263.885			2015	GPS3101	
NAD83 (1996)	44 34 38.70850	93 08 11.46516	546944.615	138506.962	166709.052	42217.006	263.952	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Z-DM4290-3E-28OCT2022.jpg	E	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Z-DM4290-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1920_Z-DM4290-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7065.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7065.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 A

NGS Name: 1921 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3376](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	114 N	19 W	443900.00	930812.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1948	2006	DESTROYED	Horz=NO Vert=NO	NO	6696	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1992) **Stamping:** 1921 A 1948

IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 26.65, 0.65 MILE NORTH OF THE NORTH JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 50, 22.0 FEET EAST OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 1219+23, 133.0 FEET NORTH OF COUNTY ROAD 66, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 3 BRIDGE NUMBER 6696.

Station Notes

OLD BRIDGE NUMBER 6696 GONE, FOUND UNSTAMPED DISK IN BRIDGE 19094 SET IN 2003.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	896.445	0.016	273.237	0.005	2/1	2011	00000676
NGVD29	896.304	0.016	273.194	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.365 12B = -92.369 09 = -92.313 03 = -92.096

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7066.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7066.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 B

NGS Name: 1921 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	114 N	19 W	444200.00	930812.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE/BITUMINOUS SLAB	SURVEY DISK	MNDT

Description: (1973) **Stamping:** 1921 B 1973

4.2 MILES NORTH OF FARMINGTON, 93.5 FEET WEST OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 1407+24, 1.0 FOOT SOUTHWEST OF THE SOUTHWEST CORNER OF A SCALE BUILDING, 4.0 FEET EAST-NORTHEAST OF THE SOUTHEAST CORNER OF A BUILDING, 14.5 FEET SOUTH-SOUTHEAST OF THE NORTHEAST CORNER OF A BUILDING, 24.5 FEET WEST-NORTHWEST OF A LIGHT POLE, IN THE SOUTHWEST CORNER OF CONCRETE AROUND A HIGHWAY DEPARTMENT TRUCK SCALE.

Station Notes

TWO-THIRDS OF THE DISK IS BROKEN OFF, THE REMAINING ONE-THIRD APPEARS SECURE IN A CONCRETE BUILDING AND ANY CONCRETE AROUND THE BUILDING HAS BEEN REMOVED. AREA IS NOW A REST STOP WITH NO BUILDINGS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.739 12B = -91.729 09 = -91.676 03 = -91.466

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7067.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7067.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 C

NGS Name: 1921 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	115 N	19 W	444327.00	930753.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (1973) **Stamping:** 1921 C 1973

5.8 MILES NORTH OF FARMINGTON, 200.0 FEET SOUTH OF A RAILROAD BRIDGE, 36.0 FEET WEST OF TRUNK HIGHWAY 3, IN THE SOUTH END OF THE WEST HEADWALL OF A TRUNK HIGHWAY 3 BOX CULVERT.

Station Notes

THE ONLY CULVERT IN THE AREA IS A ROUND CULVERT 50.0 FEET SOUTH OF A RAILROAD BRIDGE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	935.123	0.016	285.026	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -91.450 12B = -91.443 09 = -91.384 03 = -91.178

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7068.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7068.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 D

NGS Name: 1921 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	114 N	19 W	444254.00	930754.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2006	DESTROYED	Horz=NO Vert=NO	NO	RR		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (1993)

Stamping: 1921 D 1973

5.9 MILES NORTH OF FARMINGTON, 16.0 FEET NORTHEAST OF TRUNK HIGHWAY 3, IN THE WEST END OF THE NORTH PIER OF A RAILROAD BRIDGE OVER TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 1498+27.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	948.810	0.016	289.198	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -91.581 12B = -91.571 09 = -91.516 03 = -91.312

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7069.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7069.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 E RESET

NGS Name: 1921 E RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	115 N	19 W	444422.00	930712.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 48 FT)	SURVEY DISK	MNDT

Description: (2002) **Stamping:** 1921 E RESET

IN ROSEMOUNT, 0.15 MILE EAST OF THE JUNCTION OF 145TH STREET WEST AND TRUNK HIGHWAY 3, 1.2 FEET EAST OF THE SOUTHEAST CORNER OF HIGHWAY DEPARTMENT TRUCK GARAGE, 108.3 FEET NORTH OF 145TH STREET WEST, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE YEAR SET IS UNKNOWN, ELEVATION NOT AVAILABLE, THE TIES FALL UNDER STORAGE UNITS IN 2006.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.361 12B = -91.355 09 = -91.296 03 = -91.096

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7070.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7070.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 F

NGS Name: 1921 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9113](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	115 N	19 W	444302.88	930809.59	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2007	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2002) **Stamping:** 1921 F 1953

5.4 MILES NORTH OF FARMINGTON, FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, SOUTH ON TRUNK HIGHWAY 3 FOR 1.15 MILES TO TRUNK HIGHWAY 3 MILEPOINT 31.4, THEN WEST ON COUNTY ROAD 46 (160TH STREET WEST) FOR 0.35 MILE, 100.8 FEET NORTH OF COUNTY ROAD 46, 34.7 FEET EAST OF A RAILROAD, 14.6 WEST-SOUTHWEST OF A POWER POLE, 5.3 FEET SOUTH OF A TELEPHONE POLE, 0.6 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	947.350	0.016	288.753	0.005	2/1	2004	00000449
NGVD29	947.259	0.016	288.725	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -91.496 12B = -91.486 09 = -91.427 03 = -91.220

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 02.86996	93 08 09.58347	546967.538	189567.022	166716.039	57780.144			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_F-DE9113-3N-25OCT2006.jpg	N	Oct 25, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_F-DE9113-2-25OCT2006.jpg		Oct 25, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_F-DE9113-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7071.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7071.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 G

NGS Name: 1921 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AA5383](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	29	114 N	19 W	443909.01	930811.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1921 G 1991

1.0 MILE NORTH OF FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 26.85, 0.85 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 50 WEST, 71.0 FEET EAST OF TRUNK HIGHWAY 3, 200.0 FEET NORTH OF 205TH STREET WEST EXTENDED, 42.0 FEET NORTH OF A POWER POLE, 2.8 FEET NORTH OF A DRIVE TO FIRE NUMBER 20510, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE ROD DEPTH IS UNKNOWN.
 . THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	896.645	0.016	273.298	0.005	2/1	2011	00000676
NGVD29	896.504	0.016	273.255	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.342 12B = -92.346 09 = -92.287 03 = -92.070

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_G-AA5383-3E-14SEP2011.jpg	E	Sep 14, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_G-AA5383-2-14SEP2011.jpg		Sep 14, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_G-AA5383-1-14SEP2011.jpg		Sep 14, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7072.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7072.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 G RESET

NGS Name: 1921 G RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1124](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	114 N	19 W	443909.01	930811.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1921 G RESET 2014

1.0 MILE NORTH OF FARMINGTON, 2.3 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 26.85, 71.0 FEET EAST OF TRUNK HIGHWAY 3, 42.0 FEET NORTH OF A POWER POLE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	896.484	0.016	273.249	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.342 12B = -92.346 09 = -92.287 03 = -92.070

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_G_RESET-DQ1124-3NE-31OCT2022.jpg	NE	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_G_RESET-DQ1124-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_G_RESET-DQ1124-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102737.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102737.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 H

NGS Name: 1921 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9107](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	19	114 N	19 W	443952.83	930812.72	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2007	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1921 H 1991

2.0 MILES NORTH OF FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 27.65, 1.6 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 WEST, 64.0 FEET WEST OF TRUNK HIGHWAY 3, 500.0 FEET NORTH OF 197TH STREET WEST, 6.0 FEET WEST OF THE WEST EDGE OF BIKE PATH, 53.0 FEET SOUTHEAST OF EMPIRE TOWNSHIP WELL-HOUSE NUMBER 2, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	923.292	0.016	281.420	0.005	2/1	2004	00000449
NGVD29	923.161	0.016	281.380	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -92.201 12B = -92.201 09 = -92.142 03 = -91.926

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_H-DE9107-3W-25OCT2006.jpg	W	Oct 25, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_H-DE9107-2-25OCT2006.jpg		Oct 25, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_H-DE9107-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7073.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7073.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 H RESET

NGS Name: 1921 H RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8558](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	19	114 N	19 W	443952.83	930812.72	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	NOT FOUND	Horz=YES Vert=YES	YES		RECESSED 8 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1921 H RESET 2011

2.0 MILES NORTH OF FARMINGTON, 1.6 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 WEST, AT TRUNK HIGHWAY 3 MILEPOINT 27.65, 64.0 FEET WEST OF TRUNK HIGHWAY 3, 500.0 FEET NORTH OF 197TH STREET WEST, 6.0 FEET WEST OF THE WEST EDGE OF A BIKE PATH, 53.0 FEET SOUTHEAST OF EMPIRE TOWNSHIP WELL-HOUSE NUMBER 2, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	923.128	0.016	281.370	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.201 12B = -92.201 09 = -92.142 03 = -91.926

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>			<u>Reference</u>	
NAD83 (2011)	44 39 52.82542	93 08 12.72388	546783.261	170319.324	166659.871	51913.434	253.270			2015	GPS3101
NAD83 (1996)	44 39 52.82541	93 08 12.72426	546783.233	170319.323	166659.863	51913.434	253.340	C		2015	HFARM2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_H_RESET-DP8558-3W-26SEP2011.jpg	W	Sep 26, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_H_RESET-DP8558-2-26SEP2011.jpg		Sep 26, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_H_RESET-DP8558-1-26SEP2011.jpg		Sep 26, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94565.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94565.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 J

NGS Name: 1921 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9108](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	114 N	19 W	444016.00	930811.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2014	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1921 J 1991

2.5 MILES NORTH OF FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 28.2, 2.1 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 WEST, 48.0 FEET EAST OF TRUNK HIGHWAY 3, 75.0 FEET SOUTH OF A FARM ENTRANCE, 800.0 FEET SOUTH OF THE CHIPPENDALE GOLF CLUB, 23.0 FEET NORTH OF A TELEPHONE POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	937.131	0.016	285.638	0.005	2/1	2004	00000449
NGVD29	937.003	0.016	285.599	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -92.126 12B = -92.123 09 = -92.070 03 = -91.853

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7074.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7074.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 K

NGS Name: 1921 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9110](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	114 N	19 W	444143.00	930810.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (1991) **Stamping:** 1921 K 1991

4.25 MILES NORTH OF FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 29.8, ABOUT 3.8 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 WEST, 44.0 FEET EAST OF TRUNK HIGHWAY 3, 350.0 FEET NORTH OF A CONCRETE DRIVEWAY AT HOUSE NUMBER 17604, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

RECOVERED WHAT WAS LEFT OF THE ROD, WITH NO DISK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	962.954	0.016	293.509	0.005	2/1	2004	00000449
NGVD29	962.843	0.016	293.475	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -91.811 12B = -91.801 09 = -91.752 03 = -91.542

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_K-DE9110-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7075.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7075.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 L

NGS Name: 1921 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9111](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	6	114 N	19 W	444230.62	930812.56	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2014	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2002) **Stamping:** 1921 L 1991

5.0 MILES NORTH OF FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 30.75, 2.0 MILES SOUTH OF ROSEMOUNT, ABOUT 4.7 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 WEST, 113.9 FEET WEST OF TRUNK HIGHWAY 3, 0.4 MILE NORTH OF 170TH STREET, 400.0 FEET NORTH OF A DRIVEWAY AT HOUSE NUMBER 16700, 69.1 FEET SOUTH OF A POWER POLE, 6.0 FEET NORTHWEST OF A FIBER OPTIC WARNING POST, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

THE MARK IS IN A ROW OF SHRUBS ON THE EAST END OF THE FARM FIELD.
 THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	958.076	0.016	292.022	0.005	2/1	2004	00000449
NGVD29	957.977	0.016	291.992	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -91.617 12B = -91.607 09 = -91.552 03 = -91.342

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_L-DE9111-3W-25OCT2006.jpg	W	Oct 25, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_L-DE9111-2-25OCT2006.jpg		Oct 25, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_L-DE9111-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7076.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7076.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 M

NGS Name: 1921 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9114](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	115 N	19 W	444326.29	930755.50	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2011	GOOD	Horz=NO Vert=NO	YES	19086	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** 1921 M 1998

1.0 MILE SOUTH OF ROSEMOUNT. IN ABUTMENT AT THE SOUTHEAST CORNER OF RAILROAD BRIDGE NUMBER 19086 OVER TRUNK HIGHWAY 3. 0.65 MILE SOUTH-SOUTHWEST ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT. AT TRUNK HIGHWAY 3 MILEPOINT 31.9, 19.3 FEET NORTHWEST OF A POWER POLE, 9.8 FEET SOUTH-SOUTHEAST OF THE EAST RAIL OF THE TRACKS, 1.4 FEET SOUTHEAST OF SOUTHEAST NUT AND BOLT AT THE BASE OF A FENCE.

Station Notes

SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	954.539	0.016	290.944	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -91.443 12B = -91.437 09 = -91.378 03 = -91.174

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_M-DE9114-3NE-15SEP2011.jpg	NE	Sep 15, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_M-DE9114-2-15SEP2011.jpg		Sep 15, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_M-DE9114-1-15SEP2011.jpg		Sep 15, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_41520.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_41520.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 N

NGS Name: 1921 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1125](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	114 N	19 W	443836.05	930812.10	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 79 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 N 2015

IN FARMINGTON, 0.85 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 26.2, 38.8 FEET EAST OF TRUNK HIGHWAY 3, 240.5 FEET SOUTH OF WILLOW STREET, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	899.047	0.016	274.030	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.431 12B = -92.437 09 = -92.382 03 = -92.165

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_N-DQ1125-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_N-DQ1125-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_N-DQ1125-1-02APR2015.jpg		Apr 2, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103177.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103177.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 P

NGS Name: 1921 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8559](#) [Get Map](#)
NGS Quad / Sta Num : 44093124/
USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	114 N	19 W	443857.92	930810.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 24 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 P 2015

1.3 MILES NORTH OF FARMINGTON, 1.3 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 26.65, 113.1 FEET EAST OF TRUNK HIGHWAY 3, 47.5 FEET NORTH OF COUNTY ROAD 66 (VERMILLION RIVER TRAIL), 30.5 FEET NORTHWEST OF A POWER POLE NUMBER 19A85, 5.3 FEET SOUTH OF A FENCE LINE, 2.0 NORTHEAST OF NORTHEAST CORNER OF A POWER PEDESTAL, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	890.618	0.016	271.461	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.378 12B = -92.382 09 = -92.323 03 = -92.109

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 38 57.92075	93 08 10.31519	546969.677	164759.144	166716.691	50218.688	243.307	2015	GPS3101			
NAD83 (1996)	44 38 57.92074	93 08 10.31557	546969.649	164759.143	166716.683	50218.687	243.378	2015	HFARM2			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_P-DP8559-3N-31OCT2022.jpg	N	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_P-DP8559-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_P-DP8559-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103178.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103178.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 Q

NGS Name: 1921 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8560](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	8	114 N	19 W	444153.80	930810.79	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 Q 2015

2.55 MILES SOUTH OF ROSEMOUNT, 2.55 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 30.0, 50.0 FEET EAST OF TRUNK HIGHWAY 3, 7.9 FEET NORTH OF A CABLE BOX, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	952.501	0.016	290.323	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.765 12B = -91.758 09 = -91.706 03 = -91.496

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 53.80196	93 08 10.78992	546895.908	182571.791	166694.206	55647.993	262.359			2015	GPS3101	
NAD83 (1996)	44 41 53.80194	93 08 10.79030	546895.881	182571.789	166694.198	55647.993	262.430	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_Q-DP8560-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_Q-DP8560-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_Q-DP8560-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103179.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103179.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 R

NGS Name: 1921 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8561](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	114 N	19 W	444243.85	930758.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 R 2015

1.55 MILES SOUTH OF ROSEMOUNT, 1.55 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 31.05, 64.0 FEET NORTHWEST OF TRUNK HIGHWAY 3, 123.0 FEET NORTHEAST OF 164TH STREET WEST, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	941.205	0.016	286.880	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.611 12B = -91.601 09 = -91.545 03 = -91.338

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 42 43.84753	93 07 58.32013	547785.226	187642.296	166965.271	57193.486	258.960			2015	GPS3101	
NAD83 (1996)	44 42 43.84751	93 07 58.32051	547785.199	187642.294	166965.263	57193.486	259.031	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_R-DP8561-3NW-31OCT2022.jpg	NW	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_R-DP8561-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_R-DP8561-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103180.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103180.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 S

NGS Name: 1921 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1123](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	115 N	9 W	444353.21	930741.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 53 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 S 2015

IN ROSEMOUNT, AT THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 32.45, 62.1 FEET NORTHWEST OF TRUNK HIGHWAY 3, 83.1 FEET SOUTH OF AN EASTBOUND COUNTY ROAD 42 FOG LINE OF A TURN LANE, 6.1 FEET SOUTHEAST OF A CHAIN LINK FENCE, 5.6 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	958.574	0.016	292.174	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.378 12B = -91.374 09 = -91.312 03 = -91.109

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_S-DQ1123-3W-31OCT2022.jpg	W	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_S-DQ1123-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_S-DQ1123-1-01APR2015.jpg		Apr 1, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103181.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103181.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 T

NGS Name: 1921 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8562](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	29	115 N	19 W	444442.96	930736.62	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 T 2015

IN ROSEMOUNT, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 33.45, 58.2 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 3, 37.8 FEET NORTH-NORTHEAST OF THE CENTER OF AN UNDERGROUND TUNNEL, 1.5 FEET WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	960.733	0.016	292.832	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.201 12B = -91.197 09 = -91.135 03 = -90.935

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 44 42.96296	93 07 36.62451	549323.917	199709.655	167434.265	60871.625	265.035	2015	C	2015	GPS3101	
NAD83 (1996)	44 44 42.96294	93 07 36.62488	549323.890	199709.653	167434.257	60871.624	265.101	2015	C	2015	HFARM2	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_T-DP8562-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_T-DP8562-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_T-DP8562-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103182.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103182.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 U

NGS Name: 1921 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1121](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	20	115 N	19 W	444525.69	930722.28	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 54 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 U 2015

IN ROSEMOUNT, 1.8 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 34.25, 76.2 FEET EAST OF A TRUNK HIGHWAY 3 FOG LINE OF A TURN LANE, 73.2 FEET SOUTH OF BONAIRE PATH, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	969.345	0.016	295.457	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.086 12B = -91.082 09 = -91.023 03 = -90.827

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_U-DQ1121-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_U-DQ1121-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_U-DQ1121-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103183.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103183.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 V

NGS Name: 1921 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8563](#) [Get Map](#)
NGS Quad / Sta Num : 44093112/
USGS Quad: INVER GROVE HEIGHTS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	17	115 N	19 W	444606.68	930718.01	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) Stamping: 1921 V 2015

IN ROSEMOUNT, 2.65 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 35.1, 28.7 FEET WEST-NORTHWEST OF A TRUNK HIGHWAY 3 FOG LINE OF A TURN LANE, 21.1 FEET NORTH-NORTHEAST OF AN ENTRANCE, 1.5 FEET EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	967.603 0.016	294.926 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -90.958 12B = -90.951 09 = -90.895 03 = -90.699

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 46 06.67993	93 07 18.01321	550646.917	208191.553	167837.516	63456.912	267.212			2015	GPS3101	
NAD83 (1996)	44 46 06.67991	93 07 18.01358	550646.890	208191.551	167837.508	63456.912	267.278	C		2015	HFARM2	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_V-DP8563-3W-31OCT2022.jpg	W	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_V-DP8563-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_V-DP8563-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103184.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103184.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 W

NGS Name: 1921 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8564](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	27 N	23 W	444748.40	930629.37	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 W 2015

IN EAGAN, 0.45 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 32 (CLIFF ROAD) IN EAGAN, AT TRUNK HIGHWAY 3 MILEPOINT 37.2, 63.7 FEET WEST OF TRUNK HIGHWAY 3, 50.0 FEET SOUTH OF THE NORTH ENTRANCE TO THE ST. THOMAS BECKET CATHOLIC CHURCH, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	923.601	0.016	281.514	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.791 12B = -90.787 09 = -90.725 03 = -90.541

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 48.39583	93 06 29.37090	554129.975	218501.922	168899.154	66599.519	253.836			2015	GPS3101	
NAD83 (1996)	44 47 48.39580	93 06 29.37129	554129.947	218501.919	168899.146	66599.518	253.898	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_W-DP8564-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_W-DP8564-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_W-DP8564-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103185.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103185.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 X

NGS Name: 1921 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1120](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	24	27 N	23 W	444817.79	930622.01	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	DESTROYED	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 54 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 X 2015

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 30 (DIFFLEY ROAD) IN EAGAN, AT TRUNK HIGHWAY 3 MILEPOINT 37.75, 62.3 FEET EAST-NORTHEAST OF A TRUNK HIGHWAY 3 FOG LINE, 71.3 FEET NORTH OF COUNTY ROAD 30 (DIFFLEY ROAD) EXTENDED, 1.5 FEET WEST-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	860.845	0.016	262.386	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.731 12B = -90.728 09 = -90.663 03 = -90.479

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_X-DQ1120-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_X-DQ1120-2-02APR2015.jpg		Apr 2, 2015
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_X-DQ1120-1-02APR2015.jpg		Apr 2, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103186.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103186.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1921 Z

NGS Name: 1921 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8565](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	17	27 N	22 W	444928.18	930500.22	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 49 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1921 Z 2015

IN INVER GROVE HEIGHTS, 0.65 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 3 MILEPOINT 40.0, 28.6 FEET WEST OF A TRUNK HIGHWAY 3 FOG LINE, 21.7 FEET SOUTH OF ANN MARIE TRAIL EXTENDED, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	808.283	0.016	246.365	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.781 12B = -90.784 09 = -90.718 03 = -90.531

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 49 28.18433	93 05 00.21741	560530.116	228625.879	170849.921	69685.307	218.712	2015	C	2015	GPS3101	
NAD83 (1996)	44 49 28.18431	93 05 00.21780	560530.088	228625.877	170849.912	69685.307	218.775	2015	C	2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_Z-DP8565-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_Z-DP8565-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1921_Z-DP8565-1-06APR2015.jpg		Apr 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103187.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103187.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1922 B

NGS Name: 1922 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1343](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	2	27 N	22 W	445112.00	930049.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED CROSS	MNDT

Description: (1970)

Stamping:

IN INVER GROVE HEIGHTS, 1.6 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND INTERSTATE HIGHWAY 494 THEN 0.3 MILE EAST ON 66TH STREET, ON THE WEST BANK OF THE MISSISSIPPI RIVER, 100.0 FEET WEST OF THE WEST END OF A RAILROAD BRIDGE OVER A RIVER, IN THE NORTHEAST CORNER OF THE CONCRETE BASE OF A TRAFFIC CONTROL SIGNAL BOX, 20.0 FEET SOUTH OF 66TH STREET. THE STATION IS A CHISELED X.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	702.312	0.016	214.065	0.005	2/0	1991	00000025
NGVD29	702.157	0.016	214.018	0.005	2	1972	L123 MINN

Geoid Separations(ft): GEOID18 = -91.315 12B = -91.329 09 = -91.250 03 = -91.066

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7077.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7077.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 A

NGS Name: 1923 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3415](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	16	113 N	18 W	443603.93	925904.71	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1923 A 1988

0.5 MILE SOUTHEAST OF HAMPTON, 0.4 MILE EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAYS 50 AND 52 IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 19.4, 67.0 FEET SOUTH OF TRUNK HIGHWAY 50, 1.0 FOOT EAST OF A NORTH-SOUTH FENCE LINE (EAST FENCE OF CATTLE LANE), 0.8 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	983.262	0.016	299.699	0.005	2/1	2016	00000879
NGVD29	983.121	0.016	299.656	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -94.796 12B = -94.783 09 = -94.734 03 = -94.580

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_A-PP3415-3S-30SEP2022.jpg	S	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_A-PP3415-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_A-PP3415-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7078.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7078.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 B

NGS Name: 1923 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP3414	Get Map
NGS Quad / Sta Num : 44092433/	
USGS Quad: CANNON FALLS	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	15	113 N	18 W	443604.46	925816.62	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2014) **Stamping:** 1923 B 1988

1.3 MILES EAST OF HAMPTON, 1.1 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAYS 50 AND 52 IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 20.1, 61.0 FEET SOUTH-SOUTHEAST OF A POWER POLE, 27.7 FEET SOUTH OF TRUNK HIGHWAY 50, 14.0 FEET WEST OF A FIELD ENTRANCE, 6.3 FEET EAST OF A TELEPHONE CABLE MARKER POST NUMBER 6600-17, 0.9 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	991.832	0.016	302.311	0.005	2/1	2016	00000879
NGVD29	991.596	0.016	302.239	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -94.990 12B = -94.974 09 = -94.924 03 = -94.773

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 36 04.45876	92 58 16.62218	589965.680	147330.265	179821.899	44906.355	273.356			2016	GPS3148	
NAD83 (1996)	44 36 04.45879	92 58 16.62276	589965.638	147330.267	179821.886	44906.355	273.413	C		2016	HTRIER	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_B-PP3414-3S-30SEP2022.jpg	S	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_B-PP3414-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_B-PP3414-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7079.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7079.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 C

NGS Name: 1923 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3413](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	15	113 N	18 W	443604.00	925755.00	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1923 C 1988

1.5 MILES EAST OF TRUNK HIGHWAY 50 BRIDGE NUMBER 19011 OVER TRUNK HIGHWAY 52 AT HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 20.4, 119.0 FEET SOUTH OF TRUNK HIGHWAY 50, 16.0 FEET EAST OF A DRIVEWAY, 3.0 FEET EAST OF A POWER POLE, 0.5 FOOT NORTH OF A WITNESS POST.

Station Notes

NEED TO BE GRINDED DOWN AND RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	986.097	0.016	300.563	0.005	2/1	1995	00000136
NGVD29	985.949	0.016	300.518	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.069 12B = -95.052 09 = -95.003 03 = -94.852

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7080.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7080.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 C RESET
County: DAKOTA, MN (Sheet 1)

NGS Name: 1923 C RESET

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	113 N	18 W	443603.57	925757.38	2	3

NGS ACRN: DQ1057	Get Map
NGS Quad / Sta Num : 44092433/	
USGS Quad: CANNON FALLS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 6 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1923 C RESET 2011

1.5 MILES EAST OF HAMPTON, 1.3 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52 IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 20.4, 119.0 FEET SOUTH OF TRUNK HIGHWAY 50, 16.0 FEET EAST OF DRIVEWAY NUMBER 6940, 3.0 FEET EAST OF A POWER POLE, 0.5 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	985.890	0.016	300.500	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.069 12B = -95.052 09 = -95.003 03 = -94.852

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_C_RESET-DQ1057-3S-30SEP2022.jpg	S	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_C_RESET-DQ1057-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_C_RESET-DQ1057-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94073.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94073.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 D

NGS Name: 1923 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3412](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	11	113 N	18 W	443604.83	925715.11	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1923 D 1988

1.0 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) AT NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 20.9, AT THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 NORTH (GOODWIN AVENUE), 88.4 FEET EAST-SOUTHEAST OF A TELEPHONE CABLE MARKER POST NUMBER 6800-11, 47.0 FEET EAST OF COUNTY ROAD 85, 39.0 FEET NORTH OF TRUNK HIGHWAY 50, 10.0 FEET NORTH OF A POWER POLE, 0.5 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	967.600	0.016	294.925	0.005	2/1	2016	00000879
NGVD29	967.455	0.016	294.881	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.236 12B = -95.223 09 = -95.170 03 = -95.023

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_D-PP3412-3N-30SEP2022.jpg	N	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_D-PP3412-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_D-PP3412-1-03AUG2011.jpg		Aug 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7081.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7081.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 E

NGS Name: 1923 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3411](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	11	113 N	18 W	443604.00	925641.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1923 E 1988

0.55 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 21.4, 99.0 FEET NORTH OF TRUNK HIGHWAY 50, 116.0 FEET EAST OF A FARM ENTRANCE, 0.8 FOOT WEST OF A METAL FENCE, 17.6 FEET WEST-NORTHWEST OF A WOOD GATE POST AT THE WEST EDGE OF A FEEDING TANK.

Station Notes
THE FENCE HAS BEEN REBUILT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1004.473	0.016	306.164	0.005	2/1	1995	00000136
NGVD29	1004.325	0.016	306.119	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.380 12B = -95.364 09 = -95.308 03 = -95.164

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_E-PP3411-3E-03AUG2011.jpg	E	Aug 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_E-PP3411-2-03AUG2011.jpg		Aug 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_E-PP3411-1-03AUG2011.jpg		Aug 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7082.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7082.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 E RESET

NGS Name: 1923 E RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1058](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	11	113 N	18 W	443605.30	925642.97	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1923 E RESET 2014

0.5 MILE WEST OF NEW TRIER, 0.55 MILE WEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 21.4, 99.0 FEET NORTH OF TRUNK HIGHWAY 50, 116.0 FEET EAST OF DRIVEWAY NUMBER 7945.

Station Notes

NO WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1003.961	0.016	306.008	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.367 12B = -95.351 09 = -95.298 03 = -95.151

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 05.30457	92 56 42.96700	596741.745	147445.748	181887.248	44941.554	276.936			2016	GPS3148	
NAD83 (1996)	44 36 05.30457	92 56 42.96758	596741.703	147445.748	181887.235	44941.554	276.992	C		2016	HTRIER	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_E_RESET-DQ1058-3N-30SEP2022.jpg	N	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_E_RESET-DQ1058-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_E_RESET-DQ1058-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102766.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102766.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 F

NGS Name: 1923 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3410](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	113 N	18 W	443604.10	925559.00	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1923 F 1988

250.0 FEET EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) AT NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 21.9, 32.0 FEET SOUTH OF TRUNK HIGHWAY 50, 44.1 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE CITY HALL, 4.3 FEET SOUTHEAST OF A POWER POLE, 3.4 FEET SOUTHEAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	972.636	0.016	296.460	0.005	2/1	1995	00000136
NGVD29	972.491	0.016	296.416	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.544 12B = -95.528 09 = -95.472 03 = -95.328

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_F-PP3410-3SE-29JUL2011.jpg	SE	Jul 29, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_F-PP3410-2-29JUL2011.jpg		Jul 29, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_F-PP3410-1-29JUL2011.jpg		Jul 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7083.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7083.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 F RESET

NGS Name: 1923 F RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1059](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	113 N	18 W	443604.10	925558.99	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1923 F RESET 2014

IN NEW TRIER, 0.05 MILE EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 21.9, 32.0 FEET SOUTH OF TRUNK HIGHWAY 50, 50.9 FEET WEST OF DRIVEWAY NUMBER 8570, 4.3 FEET SOUTHEAST OF A POWER POLE, 3.4 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	972.459	0.016	296.406	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.544 12B = -95.528 09 = -95.472 03 = -95.328

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_F_RESET-DQ1059-3S-30SEP2022.jpg	S	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_F_RESET-DQ1059-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_F_RESET-DQ1059-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102767.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102767.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 G

NGS Name: 1923 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3409](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	113 N	18 W	443604.00	925452.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** 1923 G 1988

1.0 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 89 (INGA AVENUE), AT TRUNK HIGHWAY 50 MILEPOINT 22.9, 33.2 FEET SOUTH OF TRUNK HIGHWAY 50, 32.0 FEET WEST OF COUNTY ROAD 89, 5.2 FEET SOUTH-SOUTHEAST OF A POWER POLE, 44.5 FEET NORTH-NORTHWEST OF A POWER POLE WITH A GUY WIRE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	963.230	0.016	293.593	0.005	2/1	1995	00000136
NGVD29	963.082	0.016	293.548	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.807 12B = -95.794 09 = -95.738 03 = -95.590

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_G-PP3409-1-03NOV2006.jpg		Nov 3, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7084.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7084.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 G RESET

NGS Name: 1923 G RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1061](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NE	13	113 N	18 W	443604.10	925450.31	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1923 G RESET 2014

1.0 MILE EAST OF NEW TRIER, 1.0 MILE EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 22.9, 33.2 FEET SOUTH OF TRUNK HIGHWAY 50, 32.0 FEET WEST OF INGA AVENUE, 5.2 FEET SOUTH-SOUTHEAST OF A POWER POLE, 44.5 FEET NORTH-NORTHWEST OF A POWER POLE WITH A GUY WIRE, 1.0 FOOT NORTH OF A WITNESS POST.

Station Pair: AMANDA - DAKOTA, MN

Station Notes

DITCH HAS BEEN WIDENED. DO NOT RESET.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	962.767	0.016	293.452	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.810 12B = -95.797 09 = -95.741 03 = -95.594

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 36 04.10010	92 54 50.30953	604893.677	147362.509	184371.961	44916.183	264.244			2016	GPS3148	
NAD83 (1996)	44 36 04.10012	92 54 50.31010	604893.635	147362.511	184371.949	44916.183	264.300	C		2016	HTRIER	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_G_RESET-DQ1061-3S-22OCT2014.jpg	S	Oct 22, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_G_RESET-DQ1061-2-22OCT2014.jpg		Oct 22, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_G_RESET-DQ1061-1-22OCT2014.jpg		Oct 22, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102777.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102777.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 H

NGS Name: 1923 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3408](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	113 N	17 W	443603.81	925425.04	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1923 H 1988

1.35 MILES EAST OF NEW TRIER, 1.35 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 23.2, 58.7 FEET SOUTH OF TRUNK HIGHWAY 50, 120.0 FEET WEST OF A DRIVE TO FIRE NUMBER 9834, 120.0 FEET EAST OF A TRIPLE POWER POLE WITH TRANSFORMERS, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1002.278	0.016	305.495	0.005	2/1	2016	00000879
NGVD29	1002.131	0.016	305.450	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.909 12B = -95.895 09 = -95.840 03 = -95.692

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_H-PP3408-3S-30SEP2022.jpg	S	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_H-PP3408-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_H-PP3408-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7085.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7085.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 J

NGS Name: 1923 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3407](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	113 N	17 W	443604.00	925407.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1923 J 1988

1.6 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) AT NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 23.5, 23.0 FEET SOUTH OF TRUNK HIGHWAY 50, 34.0 FEET WEST OF A FARM ENTRANCE, 55.5 FEET WEST-NORTHWEST OF A POWER POLE, 0.9 FOOT NORTH OF A WITNESS POST.

Station Notes

RECOVERED THE DISK DAMAGE AND LEANING EAST, THE ROD WAS BADLY BENT. RETURNED THE DISK TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	940.786	0.016	286.752	0.005	2/1	1995	00000136
NGVD29	940.638	0.016	286.707	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.981 12B = -95.971 09 = -95.912 03 = -95.764

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_J-PP3407-3S-04AUG2011.jpg	S	Aug 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_J-PP3407-2-04AUG2011.jpg		Aug 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_J-PP3407-1-04AUG2011.jpg		Aug 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7086.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7086.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 J RESET

NGS Name: 1923 J RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1062](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	113 N	17 W	443604.14	925406.15	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	POOR	Horz=NO Vert=YES	YES		RECESSED 6 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1923 J RESET 2011

1.5 MILES EAST OF NEW TRIER, 1.6 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 23.5, 23.0 FEET SOUTH OF TRUNK HIGHWAY 50, 34.0 FEET WEST OF FARM ENTRANCE NUMBER 10104, 55.5 FEET WEST-NORTHWEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

ROD LEANING SOUTHEAST SLIGHTLY.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	940.307	0.016	286.606	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.981 12B = -95.968 09 = -95.909 03 = -95.761

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_J_RESET-DQ1062-3S-30SEP2022.jpg	S	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_J_RESET-DQ1062-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_J_RESET-DQ1062-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94549.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94549.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 K

NGS Name: 1923 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3406](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	18	113 N	17 W	443600.88	925337.24	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 5 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 6 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1923 K 1988

2.0 MILES EAST OF NEW TRIER, 2.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 23.9, 360.0 FEET SOUTH OF TRUNK HIGHWAY 50, 21.5 FEET WEST OF JOAN AVENUE, 4.2 FEET EAST OF A POWER POLE, 0.6 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1009.526	0.016	307.704	0.005	2/1	2016	00000879
NGVD29	1009.381	0.016	307.660	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.092 12B = -96.082 09 = -96.023 03 = -95.876

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_K-PP3406-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_K-PP3406-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_K-PP3406-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7087.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7087.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 L

NGS Name: 1923 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3405](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	17	113 N	17 W	443604.00	925322.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	MNDT

Description: (1988) **Stamping:** 1923 L 1988

2.25 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH (HOGAN AVENUE) AT NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 24.2, 31.2 FEET SOUTH OF TRUNK HIGHWAY 50.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1023.377	0.016	311.926	0.005	2/1	1995	00000136
NGVD29	1023.230	0.016	311.881	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.145 12B = -96.135 09 = -96.076 03 = -95.928

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7088.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7088.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 M

NGS Name: 1923 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3404](#) [Get Map](#)
NGS Quad / Sta Num : 44092432/
USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	113 N	17 W	443604.54	925227.75	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2014) **Stamping:** 1923 M 1988

2.7 MILES WEST OF MIESVILLE, 0.7 MILE WEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 20 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 50 MILEPOINT 24.8, 26.9 FEET NORTH OF TRUNK HIGHWAY 50, 4.3 FEET EAST OF A POWER POLE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1023.430	0.016	311.942	0.005	2/1	2016	00000879
NGVD29	1023.358	0.016	311.920	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.338 12B = -96.332 09 = -96.269 03 = -96.125

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 04.54099	92 52 27.75054	615208.323	147460.677	187515.872	44946.104	282.575			2016	GPS3148			
NAD83 (1996)	44 36 04.54100	92 52 27.75108	615208.284	147460.678	187515.860	44946.105	282.631	C		2016	HTRIER			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_M-PP3404-3N-29SEP2022.jpg	N	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_M-PP3404-2-07AUG2011.jpg		Aug 7, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_M-PP3404-1-07AUG2011.jpg		Aug 7, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7089.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7089.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1923 N

NGS Name: 1923 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3403](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	9	113 N	17 W	443607.22	925159.64	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 1923 N 1988

2.45 MILES WEST OF MIESVILLE, 0.45 MILE WEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 50 MILEPOINT 25.25, 300.0 FEET NORTH OF TRUNK HIGHWAY 50, 20.0 FEET WEST OF DRIVEWAY NUMBER 11843, 3.0 FEET SOUTH OF A POWER POLE, 0.7 FOOT EAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1043.072	0.016	317.929	0.005	2/1	2016	00000879
NGVD29	1042.928	0.016	317.885	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.437 12B = -96.430 09 = -96.365 03 = -96.224

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_N-PP3403-3N-07AUG2011.jpg	N	Aug 7, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_N-PP3403-2-22OCT2014.jpg		Oct 22, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1923_N-PP3403-1-22OCT2014.jpg		Oct 22, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7090.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7090.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 A

NGS Name: 1925 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1251](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	18	27 N	23 W	444910.58	931306.63	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2010	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1925 A 1971

IN EAGAN, 0.75 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 77 AND TRUNK HIGHWAY 13 THEN 0.55 MILE NORTH AND WEST ON SILVER BELL ROAD TO OLD CEDAR AVENUE, 165.0 FEET NORTH OF SILVER BELL ROAD, 28.0 FEET EAST OF NICHOLS ROAD (OLD CEDAR AVENUE), 3.75 FEET NORTH OF THE EDGE OF A CONCRETE DRIVEWAY, 51.4 FEET SOUTH-SOUTHEAST OF A TELEPHONE CABLE MARKER POST.

Station Notes

NO WITNESS POST SET AS THE MARK IS IN A LANDSCAPED AREA. THE DISK WAS TURNED IN TO THE OFFICE 10/4/2011.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	766.987	0.016	233.778	0.005	2/0	1991	00000025
NGVD29	766.796	0.016	233.720	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.603 12B = -89.603 09 = -89.508 03 = -89.353

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_A-PP1251-3E-29MAR2010.jpg	E	Mar 29, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_A-PP1251-2-29MAR2010.jpg		Mar 29, 2010
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_A-PP1251-1-29MAR2010.jpg		Mar 29, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7091.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7091.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 B

NGS Name: 1925 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1253](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	13	27 N	24 W	444935.00	931353.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO	5521		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SURVEY DISK	MNDT

Description: (1971) **Stamping:** 1925-B 1971

IN BURNSVILLE, 1.2 MILES NORTH ALONG TRUNK HIGHWAY 36 FROM THE JUNCTION OF TRUNK HIGHWAY 36 AND TRUNK HIGHWAY 13, IN THE SOUTHWEST CORNER OF BRIDGE NUMBER 5521, TRUNK HIGHWAY 36 (OLD CEDAR AVENUE) OVER THE MINNESOTA RIVER. 3.0 MILES SOUTH ALONG TRUNK HIGHWAY 36 FROM THE JUNCTION OF TRUNK HIGHWAY 36 AND INTERSTATE HIGHWAY 494 IN BLOOMINGTON. NOTE-- BRIDGE NUMBER 5521 WAS A PIVOT BRIDGE FOR BARGE TRAFFIC.

Station Notes

ABUTMENTS OF SOUTH BRIDGE (OLD CEDAR AVENUE OVER BARGE CHANNEL) ARE GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	716.636	0.016	218.431	0.005	2/0	1991	00000025
NGVD29	716.455	0.016	218.376	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.481 12B = -89.485 09 = -89.380 03 = -89.232

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7092.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7092.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 C

NGS Name: 1925 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4352](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	18	27 N	23 W	444928.59	931337.45	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	GOOD	Horz=NO Vert=NO	YES	9600	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1925 C 1980

IN EAGAN, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF TRUNK HIGHWAY 77 BRIDGE NUMBER 9600 OVER THE MINNESOTA RIVER, 30.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 77, 4.5 FEET SOUTH OF LIGHT STANDARD NUMBER T 2 F BR 8, 1.5 FEET NORTH OF THE SOUTHEAST END OF THE EAST RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	737.846	0.016	224.896	0.005	2/1	2000	00000359
NGVD29	737.679	0.016	224.845	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.518 12B = -89.521 09 = -89.416 03 = -89.268

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_C-AH4352-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_C-AH4352-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_C-AH4352-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7093.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7093.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 D

NGS Name: 1925 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4351](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	18	27 N	23 W	444910.65	931324.38	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	GOOD	Horz=NO Vert=YES	YES	19014	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1925 D 1980

IN EAGAN, 0.3 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 77 BRIDGE NUMBER 19014 OVER A RAILROAD, 40.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 77, 4.5 FEET SOUTH OF A STEEL POST, 1.5 FEET NORTH OF THE SOUTHEAST CORNER OF THE EAST BRIDGE RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	758.516	0.016	231.196	0.005	2/1	2013	00000781
NGVD29	758.342	0.016	231.143	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.567 12B = -89.570 09 = -89.472 03 = -89.317

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_D-AH4351-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_D-AH4351-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_D-AH4351-1-29MAR2010.jpg		Mar 29, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7094.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7094.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 E

NGS Name: 1925 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4350](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	27 N	23 W	444854.34	931319.30	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	GOOD	Horz=NO Vert=NO	YES	19055	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1925 E 1980

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77, IN THE TOP OF A RAILING AT THE NORTHWEST CORNER OF WESTBOUND TRUNK HIGHWAY 13 BRIDGE NUMBER 19055 OVER TRUNK HIGHWAY 77, 50.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 13, 24.5 FEET EAST-SOUTHEAST OF THE SOUTH LEG OF A SIGN (SOUTH CEDAR AVENUE), 13.1 FEET EAST OF THE NORTHWEST CORNER OF THE NORTH BRIDGE RAILING, 25.0 FEET NORTHEAST OF A WITNESS POST. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	828.765	0.016	252.608	0.005	2/1	2013	00000781
NGVD29	828.578	0.016	252.551	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.596 12B = -89.600 09 = -89.508 03 = -89.347

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_E-AH4350-3E-20JUL2023.jpg	E	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_E-AH4350-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_E-AH4350-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7095.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7095.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 F

NGS Name: 1925 F

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	27 N	23 W	444854.16	931313.51	2	

NGS ACRN: AH4349	Get Map
NGS Quad / Sta Num : 44093113/	
USGS Quad: ST PAUL SW	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	GOOD	Horz=NO Vert=NO	YES	19056	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1925 F 1980

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 77 AND TRUNK HIGHWAY 13, IN THE TOP OF A RAILING ON EASTBOUND TRUNK HIGHWAY 13 BRIDGE NUMBER 19056 OVER TRUNK HIGHWAY 77, 51.0 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 13, 24.1 FEET WEST-NORTHWEST OF THE NORTH LEG OF A STEEL SIGN (NORTH CEDAR AVENUE), 13.0 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING, 15.4 FEET NORTHWEST OF MILEPOST 102. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	824.391	0.016	251.275	0.005	2/1	2013	00000781
NGVD29	824.204	0.016	251.218	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.609 12B = -89.613 09 = -89.518 03 = -89.360

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_F-AH4349-3S-20JUL2023.jpg	S	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_F-AH4349-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_F-AH4349-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7096.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7096.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 G

NGS Name: 1925 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4348](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	30	27 N	23 W	444816.62	931313.44	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=YES	YES	19053	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE CURB	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1925 G 1981

IN EAGAN, IN A BRIDGE CURB IN THE SOUTHEAST CORNER OF COUNTY ROAD 30 (DIFFLEY ROAD) BRIDGE NUMBER 19053 OVER TRUNK HIGHWAY 77, 22.0 FEET SOUTH OF EASTBOUND COUNTY ROAD 30, 0.5 FOOT WEST OF THE EAST END OF A BRIDGE SIDEWALK, 0.2 FOOT NORTH OF THE NORTH FACE OF THE SOUTH BRIDGE RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	888.325	0.016	270.762	0.005	2/1	2020	00000955
NGVD29	888.122	0.016	270.700	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.662 12B = -89.662 09 = -89.583 03 = -89.409

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_G-AH4348-3S-20JUL2023.jpg	S	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_G-AH4348-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_G-AH4348-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7097.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7097.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1925 J

NGS Name: 1925 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4347](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	31	27 N	23 W	444724.29	931314.60	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19067	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1925 J 1981

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 77 AND CLIFF ROAD, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF CLIFF ROAD (COUNTY ROAD 32) BRIDGE NUMBER 19067 OVER TRUNK HIGHWAY 77, 28.5 FEET SOUTH OF EASTBOUND CLIFF ROAD, 15.6 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE DISK IS PARTIALLY COVERED BY A CHAIN LINK FENCE.

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	940.290	0.016	286.601	0.005	2/1	2000	00000359
NGVD29	940.057	0.016	286.530	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.747 12B = -89.747 09 = -89.682 03 = -89.491

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_J-AH4347-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_J-AH4347-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1925_J-AH4347-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7098.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7098.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 A

NGS Name: 1926 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3427](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	115 N	17 W	444302.64	925047.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MAT FOUNDATION (NON-PAVEMENT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1926 A 1988

SOUTHEAST OF HASTINGS, 0.1 MILE SOUTHEAST ON TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 16 AT HASTINGS, 152.8 FEET EAST OF TRUNK HIGHWAY 316, IN THE CONCRETE BASE OF ARMORY FLAGPOLE, 65.6 FEET SOUTH OF A LIGHT POLE NEAR THE NORTHWEST CORNER OF A BUILDING, 18.0 FEET NORTH OF THE NORTHEAST CORNER OF A BUILDING, 1.5 FEET NORTHWEST OF A FLAGPOLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	833.384	0.016	254.016	0.005	2/1	2016	00000879
NGVD29	833.174	0.016	253.952	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.754 12B = -95.745 09 = -95.708 03 = -95.535

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_A-PP3427-3S-27SEP2022.jpg	S	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_A-PP3427-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_A-PP3427-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7099.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7099.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 B

NGS Name: 1926 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3428](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	115 N	17 W	444307.00	925042.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1926 B 1988

1.0 MILE SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 AT HASTINGS THEN EAST ON SPIRAL BOULEVARD 0.15 MILE, ON THE TOP OF A CONCRETE BASE OF THE WEST LEG OF THE WATER TOWER, 37.6 FEET NORTHWEST OF A NORTHEAST-SOUTHWEST FENCE, 71.6 FEET EAST OF THE NORTHWEST-SOUTHEAST FENCE, 58.1 FEET SOUTHEAST OF THE SOUTHWEST CORNER OF A STUCCO BUILDING.

Station Notes

WATER TANK AND ALL FOOTINGS ARE GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	835.966	0.016	254.803	0.005	2/1	1995	00000136
NGVD29	835.792	0.016	254.750	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.771 12B = -95.761 09 = -95.722 03 = -95.548

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7100.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7100.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 C

NGS Name: 1926 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1094](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	114 N	16 W	443747.30	924621.62	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1926 C 2015

2.8 MILES NORTHEAST OF MIESVILLE, 2.0 MILES EAST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 IN MIESVILLE (THE JUNCTION IS 2.0 MILES EAST OF MIESVILLE), THEN 2.0 MILES NORTH ALONG TRUNK HIGHWAY 316, AT TRUNK HIGHWAY 316 MILEPOINT 2.0, 63.3 FEET WEST OF TRUNK HIGHWAY 316, 1.1 MILES SOUTH OF OTERO AVENUE, 45.4 FEET NORTH OF A FIELD ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	992.281	0.016	302.448	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -97.411 12B = -97.408 09 = -97.339 03 = -97.211

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_C-DQ1094-3W-27SEP2022.jpg	W	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_C-DQ1094-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_C-DQ1094-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103393.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 D

NGS Name: 1926 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1095](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	31	114 N	16 W	443815.58	924621.36	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) Stamping: 1926 D 2015

3.2 MILES NORTHEAST OF MIESVILLE, 2.0 MILES EAST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 IN MIESVILLE, THEN 2.5 MILES NORTH ALONG TRUNK HIGHWAY 316, AT TRUNK HIGHWAY 316 MILEPOINT 2.5, 45.5 FEET WEST OF TRUNK HIGHWAY 316 FOG LINE, 0.5 MILE SOUTH OF OTERO AVENUE, 3.0 FEET NORTH OF DRIVEWAY NUMBER 21480 EXTENDED, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	948.660 0.016	289.152 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -97.385 12B = -97.382 09 = -97.316 03 = -97.182

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 38 15.57803	92 46 21.36405	641629.450	160891.895	195569.048	49039.948	259.463	2016	C	2016	GPS3147	
NAD83 (1996)	44 38 15.57793	92 46 21.36450	641629.418	160891.884	195569.038	49039.944	259.525	2016	C	2016	HMIES	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_D-DQ1095-3W-27SEP2022.jpg	W	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_D-DQ1095-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_D-DQ1095-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103394.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 E

NGS Name: 1926 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1096](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	29	114 N	16 W	443911.48	924607.65	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) Stamping: 1926 E 2015

4.2 MILES NORTHEAST OF MIESVILLE, 3.7 MILES NORTH ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 (THE JUNCTION IS 2.0 MILES EAST OF MIESVILLE), AT TRUNK HIGHWAY 316 MILEPOINT 3.7, 46.3 FEET WEST OF A TRUNK HIGHWAY 316 FOG LINE, 0.1 MILE SOUTH OF RED WING BOULEVARD, 19.0 FEET NORTHEAST OF CABLE BOX NUMBER 4000 39, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	847.390	0.016	258.285	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -97.369 12B = -97.369 09 = -97.310 03 = -97.162

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 39 11.47832	92 46 07.65117	642582.928	166559.817	195859.668	50767.534	228.600			2016	GPS3147	
NAD83 (1996)	44 39 11.47822	92 46 07.65163	642582.895	166559.807	195859.658	50767.531	228.662	C		2016	HMIES	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_E-DQ1096-3W-27SEP2022.jpg	W	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_E-DQ1096-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_E-DQ1096-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103395.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103395.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 F

NGS Name: 1926 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1099](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	13	114 N	17 W	444027.61	924731.67	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 79 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1926 F 2015

4.5 MILES SOUTHEAST OF HASTINGS, 4.1 MILES SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 316 MILEPOINT 5.6, 62.1 FEET SOUTHWEST OF A TRUNK HIGHWAY 316 FOG LINE, 0.15 MILE NORTHWEST OF COUNTY ROAD 62, 0.05 MILE SOUTHEAST OF ORLANDO AVENUE, 69.5 FEET EAST OF A CUL-DE-SAC CENTER, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	813.437	0.016	247.936	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.975 12B = -96.975 09 = -96.916 03 = -96.755

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 40 27.61316	92 47 31.67369	636459.280	174230.376	193993.177	53105.525	218.368			2016	GPS3147	
NAD83 (1996)	44 40 27.61309	92 47 31.67413	636459.248	174230.369	193993.167	53105.523	218.431	C		2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_F-DQ1099-3SW-27SEP2022.jpg	SW	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_F-DQ1099-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_F-DQ1099-1-05MAY2015.jpg		May 5, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103396.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103396.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 G

NGS Name: 1926 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1100](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	114 N	17 W	444108.19	924823.49	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 64 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1926 G 2015

3.5 MILES SOUTHEAST OF HASTING, 3.1 MILES SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 316 MILEPOINT 6.65, 59.0 FEET NORTHEAST OF TRUNK HIGHWAY 316, 0.2 MILE SOUTHEAST OF 180TH STREET, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	822.882	0.016	250.815	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.699 12B = -96.696 09 = -96.637 03 = -96.476

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 08.18812	92 48 23.49073	632689.045	178315.831	192844.007	54350.774	221.334			2016	GPS3147	
NAD83 (1996)	44 41 08.18805	92 48 23.49118	632689.013	178315.823	192843.997	54350.772	221.397	C		2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_G-DQ1100-3NE-05MAY2015.jpg	NE	May 5, 2015
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_G-DQ1100-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_G-DQ1100-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103397.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103397.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1926 H

NGS Name: 1926 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1101](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	11	114 N	17 W	444136.09	924904.38	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 54 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1926 H 2015

3.0 MILES SOUTHEAST OF HASTING, 2.4 MILES SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 316 MILEPOINT 7.45, 107.0 FEET SOUTH-SOUTHEAST OF TRUNK HIGHWAY 316, 0.3 MILE NORTHWEST OF NICOLAI AVENUE, IN HASTINGS SAND COULEE PARKING AREA, 1.5 FEET WEST-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	818.860	0.016	249.589	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.470 12B = -96.463 09 = -96.411 03 = -96.247

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 36.08768	92 49 04.37964	629717.524	181123.075	191938.285	55206.424	220.179			2016	GPS3147	
NAD83 (1996)	44 41 36.08761	92 49 04.38009	629717.492	181123.068	191938.275	55206.421	220.242	C		2016	HMIES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_H-DQ1101-3SW-27SEP2022.jpg	SW	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_H-DQ1101-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1926_H-DQ1101-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103398.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103398.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 A

NGS Name: 1928 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1638](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	28 N	22 W	445502.00	930351.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	GOOD	Horz=NO Vert=NO	YES	19025	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2009) **Stamping:** 1928 A 1976

IN THE SOUTH ST. PAUL, 0.8 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 56 (CONCORD STREET), IN THE SOUTHWEST CORNER OF TRUNK HIGHWAY 52 PEDESTRIAN BRIDGE NUMBER 19025 AT LEWIS STREET CUL-DE-SAC, 2.3 FEET SOUTH OF THE SOUTH EDGE OF LANDING LEVEL OF AN ABUTMENT (SOUTH OF A FENCE). THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	897.213	0.016	273.471	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.292 12B = -90.289 09 = -90.229 03 = -90.049

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_A-DO1638-3SW-25AUG2011.jpg	SW	Aug 25, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_A-DO1638-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_A-DO1638-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7101.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7101.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 B

NGS Name: 1928 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1637](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	28 N	22 W	445444.00	930349.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	GOOD	Horz=NO Vert=NO	YES	19021	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1928 B 1976

IN THE SOUTH ST. PAUL, 1.1 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 56 (CONCORD STREET), IN THE SOUTHEAST CORNER OF BUTLER AVENUE BRIDGE NUMBER 19021 OVER TRUNK HIGHWAY 52. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	946.770	0.016	288.576	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.315 12B = -90.315 09 = -90.256 03 = -90.075

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_B-DO1637-3S-09AUG2023.jpg	S	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_B-DO1637-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_B-DO1637-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7102.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7102.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 C

NGS Name: 1928 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	28 N	22 W	445405.00	930353.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	DESTROYED	Horz=NO Vert=NO	YES	19018		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1928 C

IN MENDOTA HEIGHTS, 1.8 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 56 (CONCORD STREET), IN THE SOUTHEAST CORNER OF THOMPSON AVENUE BRIDGE NUMBER 19018 OVER TRUNK HIGHWAY 52.

Station Notes

1 PHOTO OF PATCH OF CONCRETE WHERE DISK COULD HAVE BEEN, NO DISK ANYWHERE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.361 12B = -90.361 09 = -90.305 03 = -90.121

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location: Monument: Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_C-1-27NOV2006.jpg		Nov 27, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7103.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7103.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 D

NGS Name: 1928 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1636](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	20	28 N	22 W	445351.94	930356.95	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	GOOD	Horz=NO Vert=NO	YES	19020	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2006) **Stamping:** 1928 D 1976

IN MENDOTA HEIGHTS, IN A BRIDGE ABUTMENT IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19020 OVER WENTWORTH AVENUE, 2.1 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 56 (CONCORD STREET). THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC SURVEYS.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	951.356	0.016	289.974	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.367 12B = -90.371 09 = -90.315 03 = -90.131

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_D-DO1636-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_D-DO1636-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_D-DO1636-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7104.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7104.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 E

NGS Name: 1928 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7388](#) [Get Map](#)
NGS Quad / Sta Num : 44093111/
USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	28 N	22 W	445234.27	930337.40	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1928 E 2014

IN INVER GROVE HEIGHTS, 0.1 MILE NORTH ALONG NORTHBOUND TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND INTERSTATE HIGHWAY 494 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 52 MILEPOINT 125.5, 37.0 FEET EAST OF A NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 45.7 FEET WEST-NORTHWEST OF ON A RAMP TO WESTBOUND INTERSTATE HIGHWAY 494 FROM A NORTHBOUND TRUNK HIGHWAY 52/YELLOW FOG LINE, 51.4 FEET SOUTHEAST OF LIGHT POLE NUMBER S8L64, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	918.456	0.016	279.946	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.561 12B = -90.571 09 = -90.518 03 = -90.318

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 34.27409	93 03 37.40110	566440.042	247491.019	172651.270	75435.414	252.328			2017	GPS3178	
NAD83 (1996)	44 52 34.27390	93 03 37.40140	566440.021	2474910000	172651.264	75435.408	252.400	C		2017	HPIGS	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_E-DP7388-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_E-DP7388-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_E-DP7388-1-15JUL2014.jpg		Jul 15, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101787.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101787.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 F

NGS Name: 1928 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1635](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	28	128 N	22 W	445305.41	930347.23	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	GOOD	Horz=NO Vert=NO	YES	19016	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2007) **Stamping:** 1928 F 1976

IN THE SOUTH ST. PAUL, IN A BRIDGE ABUTMENT IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19016 OVER SOUTHVIEW BOULEVARD, 3.0 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 56 (CONCORD STREET). THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC SURVEYS.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO A FALL RISK AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC SURVEYS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	962.554	0.016	293.387	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.472 12B = -90.479 09 = -90.426 03 = -90.233

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_F-DO1635-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_F-DO1635-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_F-DO1635-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7105.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7105.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 G

NGS Name: 1928 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8644](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	33	28 N	22 W	445155.44	930333.73	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19042	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (1998) **Stamping:** 1928 G 1998

IN THE SOUTH ST. PAUL, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 18 BRIDGE NUMBER 19042 OVER TRUNK HIGHWAY 52, 0.55 MILE SOUTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND INTERSTATE HIGHWAY 494 IN THE SOUTH ST. PAUL, AT TRUNK HIGHWAY 52 MILEPOINT 124.75, 17.0 FEET SOUTH OF EASTBOUND UPPER 55TH STREET, 39.7 FEET WEST OF THE SOUTHEAST CORNER OF A BRIDGE RAILING. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1989 THEN STAMPED WHEN USED IN 1998. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	965.713	0.016	294.350	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.656 12B = -90.666 09 = -90.613 03 = -90.410

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_G-DE8644-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_G-DE8644-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_G-DE8644-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36787.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36787.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 H

NGS Name: 1928 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8645](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	4	27 N	22 W	445114.30	930332.77	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2023	GOOD	Horz=NO Vert=NO	YES	19083	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (1998) **Stamping:** 1928 H 1998

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF 65TH STREET BRIDGE NUMBER 19083 OVER TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 123.95, 31.0 FEET SOUTHWEST OF 65TH STREET, 20.1 FEET NORTHWEST OF THE SOUTHEAST CORNER OF A BRIDGE RAILING. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1990 THEN STAMPED WHEN USED IN 1998.

Station Notes

3-18-2009 THE MARK IS DIFFICULT TO USE AS NEWER FENCING HAS BEEN INSTALLED ATOP BARRIER.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	937.921	0.016	285.879	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.758 12B = -90.768 09 = -90.712 03 = -90.512

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_H-DE8645-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_H-DE8645-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_H-DE8645-1-26AUG2011.jpg		Aug 26, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36788.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36788.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 J

NGS Name: 1928 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8646](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	9	27 N	22 W	445051.77	930332.59	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2023	GOOD	Horz=NO Vert=YES	YES	19022	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (1998) **Stamping:** 1928 J 1998

IN INVER GROVE HEIGHTS, IN A SIDEWALK AT THE SOUTHEAST CORNER OF 70TH STREET EAST BRIDGE NUMBER 19022 OVER TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 123.5, 33.4 FEET SOUTH OF EASTBOUND COUNTY ROAD 26 (70TH STREET EAST), 11.2 FEET WEST OF THE SOUTHEAST CORNER OF A BRIDGE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	947.587	0.016	288.825	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.813 12B = -90.823 09 = -90.768 03 = -90.571

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_J-DE8646-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_J-DE8646-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_J-DE8646-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36789.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36789.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 K

NGS Name: 1928 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8647](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	9	27 N	22 W	445029.02	930336.95	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2023	GOOD	Horz=NO Vert=NO	YES	19085	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (1998) **Stamping:** 1928 K 1998

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHWEST CORNER OF 75TH STREET EAST BRIDGE NUMBER 19085 OVER TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 123.05, 23.3 FEET SOUTH OF 75TH STREET EAST, 16.8 FEET EAST OF THE SOUTHWEST CORNER OF A BRIDGE RAILING. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1991 THEN STAMPED WHEN USED IN 1998.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	983.663	0.016	299.821	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.859 12B = -90.866 09 = -90.810 03 = -90.617

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_K-DE8647-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_K-DE8647-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_K-DE8647-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36786.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36786.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 L

NGS Name: 1928 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8648](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	9	27 N	22 W	445029.08	930332.49	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2023	GOOD	Horz=NO Vert=NO	YES	19085	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (1998) **Stamping:** 1928 L 1998

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF 75TH STREET EAST BRIDGE NUMBER 19085 OVER TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 123.05, 23.6 FEET SOUTH OF 75TH STREET EAST, 16.8 FEET WEST OF SOUTHEAST CORNER OF A BRIDGE RAILING. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1991 THEN STAMPED WHEN USED IN 1998. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	987.970	0.016	301.134	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.873 12B = -90.879 09 = -90.823 03 = -90.630

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_L-DE8648-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_L-DE8648-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_L-DE8648-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36785.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36785.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 M

NGS Name: 1928 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8649](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	27 N	22 W	444959.70	930336.92	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2023	GOOD	Horz=NO Vert=NO	YES	19041	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (1998) **Stamping:** 1928 M 1998

IN INVER GROVE HEIGHTS, IN AN ABUTMENT AT THE SOUTHWEST CORNER OF 80TH STREET EAST BRIDGE NUMBER 19041 OVER TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 122.5, 34.2 FEET SOUTH OF 80TH STREET EAST (EASTBOUND COUNTY ROAD 28), 1.0 FOOT SOUTH OF A FENCE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	950.700	0.016	289.774	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.938 12B = -90.945 09 = -90.886 03 = -90.699

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_M-DE8649-3SE-10AUG2023.jpg	SE	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_M-DE8649-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_M-DE8649-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36784.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36784.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 N

NGS Name: 1928 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE8650](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	27 N	22 W	444959.77	930332.30	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2023	GOOD	Horz=NO Vert=NO	YES	19041	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	REFERENCE MARK DISK	MNDT

Description: (1998) **Stamping:** 1928 N 1998

IN INVER GROVE HEIGHTS, IN AN ABUTMENT AT THE SOUTHEAST CORNER OF BRIDGE NUMBER 19041 (80TH STREET EAST OVER TRUNK HIGHWAY 52), AT TRUNK HIGHWAY 52 MILEPOINT 122.5, 33.0 FEET SOUTH OF 80TH STREET EAST (EAST-BOUND COUNTY ROAD 28), 1.0 FOOT SOUTH OF A FENCE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	951.701	0.016	290.079	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.955 12B = -90.958 09 = -90.902 03 = -90.715

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_N-DE8650-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_N-DE8650-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_N-DE8650-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36783.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36783.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 P

NGS Name: 1928 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL5951](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	28 N	22 W	445335.38	930358.83	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2009) **Stamping:** 1928 P 2009

IN WEST ST. PAUL, 1.35 MILES SOUTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND BUTLER AVENUE, AT TRUNK HIGHWAY 52 MILEPOINT 126.70, 29.8 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 52, 34.1 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 52, 6.0 EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	939.257	0.016	286.286	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.387 12B = -90.394 09 = -90.338 03 = -90.151

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 35.38315	93 03 58.82597	564878.131	253675.403	172175.199	77320.417	258.734	C	2012	GPS2800		
NAD83 (2007)	44 53 35.38303	93 03 58.82681	564878.070	253675.390	172175.180	77320.414	258.770	C	2009	GPS2590		
NAD83 (1996)	44 53 35.38276	93 03 58.82623	564878.112	253675.363	172175.193	77320.405	258.817	C	2009	HINVR		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_P-DL5951-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_P-DL5951-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_P-DL5951-1-15APR2020.jpg		Apr 15, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85848.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85848.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 Q

NGS Name: 1928 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL5952](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	20	28 N	22 W	445414.98	930353.68	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2009) **Stamping:** 1928 Q 2009

IN WEST ST. PAUL, 0.6 MILE SOUTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND BUTLER AVENUE, AT TRUNK HIGHWAY 52 MILEPOINT 127.45, 87.2 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 68.0 FEET NORTHWEST OF A LIGHT POLE, 28.6 FEET EAST OF A RETAINING WALL, 1.8 MILES WEST OF A WITNESS POST.

Station Notes

TREES TIGHT TO THE EAST

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	915.264	0.016	278.973	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.344 12B = -90.344 09 = -90.285 03 = -90.105

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 54 14.98386	93 03 53.68233	565236.035	257687.354	172284.288	78543.263	251.439	C	2014	GPS2981		
NAD83 (2007)	44 54 14.98385	93 03 53.68315	565235.976	257687.352	172284.270	78543.262	251.470	C	2009	GPS2590		
NAD83 (1996)	44 54 14.98356	93 03 53.68256	565236.019	257687.323	172284.283	78543.253	251.523	C	2012	HXERX		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_Q-DL5952-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_Q-DL5952-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_Q-DL5952-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85849.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85849.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 R

NGS Name: 1928 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9197](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	28	28 N	22 W	445310.29	930353.90	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1928 R 2014

IN SOUTH ST. PAUL, 0.8 MILE SOUTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 8 (WENTWORTH AVENUE) IN WEST ST. PAUL, AT TRUNK HIGHWAY 52 MILEPOINT 126.3, 19.5 FEET SOUTHWEST OF A SOUTHBOUND TRUNK HIGHWAY 52 FOG LINE, 37.2 FEET NORTHEAST OF THE OFF RAMP FROM SOUTHBOUND TRUNK HIGHWAY 52 TO SOUTHVIEW ROAD AND MENDOTA ROAD, 60.2 NORTHWEST OF LIGHT POLE NUMBER J713, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	956.668	0.016	291.593	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.446 12B = -90.449 09 = -90.400 03 = -90.207

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_R-DP9197-3W-09AUG2023.jpg	W	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_R-DP9197-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_R-DP9197-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101788.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101788.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 S

NGS Name: 1928 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0961](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	9	27 N	22 W	445045.21	930333.43	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) Stamping: 1928 S 2015

IN INVER GROVE HEIGHTS, 1.7 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 52 MILEPOINT 123.4, 40.8 FEET EAST OF A NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 25.5 FEET WEST OF A 70TH STREET EAST OFF RAMP FOG LINE, 0.15 MILE SOUTH OF COUNTY ROAD 26 (70TH STREET EAST), 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	936.212	0.016	285.358	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.830 12B = -90.836 09 = -90.781 03 = -90.584

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 50 45.21205	93 03 33.43221	566760.770	236446.077	172749.028	72068.908	257.661	2016	C	2016	GPS3146	
NAD83 (1996)	44 50 45.21190	93 03 33.43260	566760.741	236446.061	172749.020	72068.904	257.725	2016	C	2016	HCOAT	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_S-DQ0961-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_S-DQ0961-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_S-DQ0961-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103399.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103399.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1928 T

NGS Name: 1928 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0960](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	27 N	22 W	445138.64	930331.68	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 1928 T 2015

IN INVER GROVE HEIGHTS, 2.7 MILES NORTH ALONG TRUNK HIGHWAY 52 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 52 MILEPOINT 124.4, 31.6 FEET EAST OF A NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 0.3 MILE SOUTH OF UPPER 55TH STREET EAST, 0.45 MILE NORTH OF 65TH STREET EAST, AT UPPER 55TH STREET EAST OFF RAMP OF NORTHBOUND TRUNK HIGHWAY 52, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.604	0.016	283.039	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.702 12B = -90.712 09 = -90.656 03 = -90.456

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 51 38.63640	93 03 31.68496		566869.527	241857.304	172782.178	73718.254	255.390		2016	GPS3146
NAD83 (1996)	44 51 38.63625	93 03 31.68535		566869.499	241857.288	172782.169	73718.249	255.453	C	2016	HCOAT

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_T-DQ0960-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_T-DQ0960-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1928_T-DQ0960-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103400.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103400.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 A

NGS Name: 1929 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	115 N	20 W	444618.00	931300.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1929 A 1976

IN APPLE VALLEY, 1.4 MILES SOUTH OF THE JUNCTION OF CEDAR AVENUE AND CLIFF ROAD (COUNTY ROAD 32), 239.0 FEET NORTH OF 123RD STREET, 59.6 FEET EAST OF CEDAR AVENUE, 12.6 FEET SOUTH OF AN OLD FIELD ENTRANCE, 9.3 FEET SOUTH OF A BARRICADE ACROSS AN ENTRANCE, 143.7 FEET WEST-NORTHWEST OF THE SOUTHWEST CORNER OF AN APARTMENT BUILDING, 1.0 FOOT NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.921 12B = -89.924 09 = -89.865 03 = -89.668

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7106.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7106.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 B

NGS Name: 1929 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	115 N	20 W	444524.00	931212.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2011)

Stamping: 1929 B 1976

IN APPLE VALLEY, 0.15 MILE EAST OF THE JUNCTION OF 132ND STREET AND CEDAR AVENUE, 30.9 FEET SOUTH OF A FENCE LINE, 182.0 FEET EAST OF A DRIVEWAY TO HOUSE NUMBER 7388, 1.6 FEET WEST OF A POWER POLE WITH A TRANSFORMER AND A GUY WIRE, 1.0 FOOT NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.203 12B = -90.210 09 = -90.147 03 = -89.941

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7107.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7107.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 C

NGS Name: 1929 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4450](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	22	115 N	20 W	444528.16	931225.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 6 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 28 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1929 C 1976

IN APPLE VALLEY, 0.15 MILE SOUTH ALONG GALAXIE AVENUE WEST FROM THE JUNCTION OF GALAXIE AVENUE WEST AND COUNTY ROAD 38/ (MC ANDREWS ROAD), 193.0 FEET NORTH OF 132ND STREET WEST, 48.5 FEET EAST OF GALAXIE STREET, 4.0 FEET EAST OF THE WEST EDGE OF A SIDEWALK, 2.2 FEET NORTH OF A POWER POLE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1012.488	0.016	308.607	0.005	2/1	2020	00000955
NGVD29	1012.242	0.016	308.532	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.151 12B = -90.157 09 = -90.098 03 = -89.892

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_C-AH4450-3E-13JUL2023.jpg	E	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_C-AH4450-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_C-AH4450-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7108.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7108.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 D

NGS Name: 1929 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4452](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	23	115 N	20 W	444536.00	931113.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 23 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1929 D 1976

IN APPLE VALLEY, 0.2 MILE SOUTH OF THE JUNCTION OF JOHNNY CAKE RIDGE ROAD AND TRUNK HIGHWAY 77, AT THE JUNCTION OF JOHNNY CAKE RIDGE ROAD AND 132ND STREET, 50.0 FEET WEST OF JOHNNY CAKE RIDGE ROAD, 120.0 FEET NORTH OF A FARMHOUSE DRIVEWAY, 90.3 FEET NORTH-NORTHEAST OF A FENCE CORNER, 41.4 FEET EAST OF A FENCE LINE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1007.511	0.016	307.090	0.005	2/1	2000	00000359
NGVD29	1007.265	0.016	307.015	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.344 12B = -90.348 09 = -90.282 03 = -90.079

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7109.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7109.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 F

NGS Name: 1929 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	115 N	20 W	444454.00	931300.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** 1929 F 1976

IN APPLE VALLEY, AT THE JUNCTION OF CEDAR AVENUE AND UPPER 139TH STREET, 63.9 FEET EAST OF CEDAR AVENUE, 41.0 FEET SOUTH OF 139TH STREET, 6.1 FEET NORTH OF A PINE TREE, 9.6 FEET SOUTH OF A STREET SIGN, 1.0 FOOT WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.157 12B = -90.161 09 = -90.102 03 = -89.898

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7110.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7110.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 G

NGS Name: 1929 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4449](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	15	115 N	20 W	444556.68	931301.80	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2017	DESTROYED	Horz=NO Vert=NO	YES	19082	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - LARGE	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1929 G 1989

AT APPLE VALLEY, IN A BRIDGE WALKWAY AT THE SOUTHEAST CORNER OF PALOMINO DRIVE BRIDGE NUMBER 19082 OVER TRUNK HIGHWAY 77, 33.0 FEET SOUTH OF PALIMINO DRIVE, 24.9 FEET WEST OF THE SOUTHEAST CORNER OF A BRIDGE, 3.0 FEET EAST OF STATION BR 19082 SE, 0.6 FOOT NORTH OF BRIDGE RAILING FACE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1025.628	0.016	312.612	0.005	2/1	2020	00000955
NGVD29	1025.388	0.016	312.539	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.970 12B = -89.974 09 = -89.915 03 = -89.714

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_G-AH4449-3SE-04OCT2011.jpg	SE	Oct 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_G-AH4449-2-04OCT2011.jpg		Oct 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_G-AH4449-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7111.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7111.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 H

NGS Name: 1929 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4451](#) [Get Map](#)
NGS Quad / Sta Num : 44093113/
USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	14	115 N	20 W	444543.90	931133.91	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2014	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1929 H 1989

AT APPLE VALLEY, AT THE JUNCTION OF MCANDREWS ROAD AND THE ENTRANCE TO THE MINNESOTA ZOO, 46.8 FEET NORTH OF WESTBOUND COUNTY ROAD 38, 96.5 FEET WEST OF SOUTHBOUND EXIT FROM ZOO, 44.8 FEET WEST-SOUTHWEST OF THE NORTHWEST CORNER OF A TRANSFORMER BASE, 6.0 FEET NORTH OF THE NORTHERLY EDGE OF A SIDEWALK, 0.7 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	998.509	0.016	304.346	0.005	2/1	2008	00000561
NGVD29	998.262	0.016	304.271	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.252 12B = -90.259 09 = -90.197 03 = -89.990

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_H-AH4451-3N-04OCT2011.jpg	N	Oct 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_H-AH4451-2-04OCT2011.jpg		Oct 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_H-AH4451-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7112.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7112.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1929 J

NGS Name: 1929 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ8794](#) [Get Map](#)
NGS Quad / Sta Num : 44093113/
USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	15	115 N	20 W	444605.15	931301.81	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** 1929 J 2017

IN APPLE VALLEY, 0.7 MILE SOUTH ALONG TRUNK HIGHWAY 77 FROM THE JUNCTION OF TRUNK HIGHWAY 77 AND INTERSTATE HIGHWAY 35 EAST IN APPLE VALLEY, AT TRUNK HIGHWAY 77 MILEPOINT 2.20, 50.2 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 77 (CEDAR AVENUE), 33.5 FEET SOUTHWEST OF AN ON-RAMP TO NORTHBOUND TRUNK HIGHWAY 77, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1016.012	0.016	309.681	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.951 12B = -89.951 09 = -89.892 03 = -89.695

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 05.15490	93 13 01.81202	525842.740	207992.248	160277.188	63396.164	282.274			2018	GPS3290	
NAD83 (1996)	44 46 05.15477	93 13 01.81243	525842.710	207992.235	160277.179	63396.160	282.344	C		2018	HTH77	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_J-DQ8794-3N-13JUL2023.jpg	N	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_J-DQ8794-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1929_J-DQ8794-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108695.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108695.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 A

NGS Name: 1980 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0891](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	36	114 N	21 W	443818.94	931748.22	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1980 A 1970

AT LAKEVILLE, 4.3 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35, AT TRUNK HIGHWAY 35 MILEPOINT 81.35, 0.5 MILE NORTH OF THE DAKOTA-SCOTT COUNTY LINE, 0.5 MILE SOUTH OF COUNTY ROAD 70, 200.0 FEET NORTH OF A PIPELINE CROSSING, 95.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35 AT STATION 496+16, 4.0 FEET WEST OF AN EAST RIGHT-OF-WAY FENCE, 0.9 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1101.290	0.016	335.674	0.005	2/1	2016	00000879
NGVD29	1101.120	0.016	335.622	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.377 12B = -90.380 09 = -90.334 03 = -90.121

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_A-PP0891-3E-03NOV2022.jpg	E	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_A-PP0891-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_A-PP0891-1-14SEP2011.jpg		Sep 14, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7113.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7113.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 B

NGS Name: 1980 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0887](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	114 N	21 W	443842.50	931744.53	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2007	DESTROYED	Horz=NO Vert=NO	YES	19842		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1970) **Stamping:** 1980 B 1970

AT LAKEVILLE, 3.8 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35, 1.0 MILE NORTH OF THE DAKOTA-SCOTT COUNTY LINE, IN THE SOUTHEAST CORNER OF COUNTY ROAD 70 BRIDGE NUMBER 19842 OVER INTERSTATE HIGHWAY 35.

Station Notes

NEW BRIDGE NUMBER 19850 REPLACED BRIDGE NUMBER 19842.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1105.444	0.016	336.940	0.005	2/0	1991	00000025
NGVD29	1105.267	0.016	336.886	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.321 12B = -90.328 09 = -90.279 03 = -90.065

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_B-PP0887-3W-01NOV2006.jpg	W	Nov 1, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_B-PP0887-2-01NOV2006.jpg		Nov 1, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_B-PP0887-1-01NOV2006.jpg		Nov 1, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7114.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7114.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 C 1

NGS Name: 1980 C 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2132](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	25	114 N	21 W	443907.93	931740.59	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	YES	19844	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1970) **Stamping:** 1980 C 1 1970

AT LAKEVILLE, 3.3 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35, 1.5 MILES NORTH OF THE DAKOTA-SCOTT COUNTY LINE, IN THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19844 OVER COUNTY ROAD 64 AND A BIKE PATH.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1062.281	0.016	323.784	0.005	2/1	2016	00000879
NGVD29	1062.167	0.016	323.749	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -90.266 12B = -90.272 09 = -90.220 03 = -90.010

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_C_1-PP2132-3N-03NOV2022.jpg	N	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_C_1-PP2132-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_C_1-PP2132-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7115.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7115.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 C 2

NGS Name: 1980 C 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0885](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	25	114 N	21 W	443910.01	931742.06	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	YES	19843	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1970) **Stamping:** 1980 C 2 1970

AT LAKEVILLE, 3.3 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35, 1.5 MILES NORTH OF DAKOTA-SCOTT COUNTY LINE, IN THE NORTHWEST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19843 OVER COUNTY ROAD 64 AND A BIKE PATH.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1063.033	0.016	324.013	0.005	2/1	2016	00000879
NGVD29	1062.892	0.016	323.970	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.256 12B = -90.262 09 = -90.207 03 = -89.997

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_C_2-PP0885-3W-03NOV2022.jpg	W	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_C_2-PP0885-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_C_2-PP0885-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7116.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7116.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 C 3

NGS Name: 1980 C 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0886](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	25	114 N	21 W	443909.00	931740.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO	19844	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (1970) **Stamping:** 1980 C 3 1971

AT LAKEVILLE, 3.3 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35, 1.5 MILES NORTH OF THE DAKOTA-SCOTT COUNTY LINE, 50.0 FEET NORTH OF THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19844 OVER COUNTY ROAD 64 AND A BIKE PATH, 2.0 INCH DIAMETER WEST OF THE EAST RAILING.

Station Notes
THE BRIDGE DECK HAS BEEN REBUILT, NEW DECK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1062.796	0.016	323.941	0.005	2/0	1991	00000025
NGVD29	1062.629	0.016	323.890	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -90.269 12B = -90.275 09 = -90.220 03 = -90.010

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7117.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7117.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 D

NGS Name: 1980 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0884](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	25	114 N	21 W	443932.56	931739.94	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1980 D 1970

AT LAKEVILLE, 2.8 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, AT INTERSTATE HIGHWAY 35 MILEPOINT 82.8, 0.5 MILE NORTH OF COUNTY ROAD 64, 0.5 MILE SOUTH OF 195TH STREET WEST, 189.0 FEET WEST OF THE NORTHWEST END OF A 60.0 INCH DIAMETER CONCRETE CULVERT, 96.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35 AT STATION 571+05, 2.0 FEET EAST OF A RIGHT-OF-WAY FENCE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1023.312	0.016	311.906	0.005	2/1	2016	00000879
NGVD29	1023.131	0.016	311.851	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.203 12B = -90.207 09 = -90.151 03 = -89.941

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_D-PP0884-3W-03NOV2022.jpg	W	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_D-PP0884-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_D-PP0884-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7118.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7118.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 E

NGS Name: 1980 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0883](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	24	114 N	21 W	444000.53	931737.27	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=NO	YES	19841	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980 E 1970

AT LAKEVILLE, 2.3 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 1.0 MILE NORTH OF COUNTY ROAD 64 AT MILEPOINT 82.8, 17.5 FEET SOUTH OF 195TH STREET WEST BRIDGE NUMBER 19841 OVER INTERSTATE HIGHWAY 35.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1016.720	0.016	309.897	0.005	2/1	2016	00000879
NGVD29	1016.563	0.016	309.849	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.138 12B = -90.141 09 = -90.082 03 = -89.875

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_E-PP0883-3S-03NOV2022.jpg	S	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_E-PP0883-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_E-PP0883-1-21SEP2011.jpg		Sep 21, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7119.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7119.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 F 1

NGS Name: 1980 F 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0880](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	24	114 N	21 W	444022.22	931737.64	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=NO	YES	19848	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1980 F 1 1970

IN LAKEVILLE, 1.9 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND INTERSTATE HIGHWAY 35 AT MILEPOINT 83.75, 0.4 MILE NORTH OF 195TH STREET WEST, 24.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35, IN THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19848 OVER A CHANNEL AT THE WEST END OF MARION LAKE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	989.407	0.016	301.572	0.005	2/1	2016	00000879
NGVD29	989.250	0.016	301.524	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.075 12B = -90.082 09 = -90.020 03 = -89.816

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_F_1-PP0880-3N-03NOV2022.jpg	N	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_F_1-PP0880-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_F_1-PP0880-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7120.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7120.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 F 2

NGS Name: 1980 F 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0881](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	24	114 N	21 W	444023.01	931739.41	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	YES	19847	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1980 F 2 1970

IN LAKEVILLE, 2.1 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 0.4 MILE NORTH OF 195TH STREET WEST, 23.5 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35 AT MILEPOINT 83.75, IN THE NORTHWEST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19847 OVER A CHANNEL AT THE WEST END OF MARION LAKE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	989.411	0.016	301.573	0.005	2/1	2016	00000879
NGVD29	989.253	0.016	301.525	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.069 12B = -90.072 09 = -90.013 03 = -89.806

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_F_2-PP0881-3W-03NOV2022.jpg	W	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_F_2-PP0881-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_F_2-PP0881-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7121.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7121.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 G 1

NGS Name: 1980 G 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP0878	Get Map
NGS Quad / Sta Num : 44093131/	
USGS Quad: ORCHARD LAKE	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	114 N	21 W	444053.00	931735.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	19846	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980 G 1 1970

IN LAKEVILLE, 1.5 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 0.6 MILE NORTH OF THE NORTH END OF MARION LAKE, IN THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19846 OVER 185TH STREET.

Station Notes

NEW BRIDGE PUT IN PLACE, UNSTAMPED SURVEY DISK IN THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1033.292	0.016	314.948	0.005	2/0	1991	00000025
NGVD29	1033.131	0.016	314.899	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -900000 12B = -90.003 09 = -89.944 03 = -89.744

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7122.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7122.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 G 2

NGS Name: 1980 G 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0879](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	114 N	21 W	444054.00	931735.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	19845		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980 G 2 1970

IN LAKEVILLE, 1.5 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 0.6 MILE NORTH OF THE NORTH END OF MARION LAKE, IN THE SOUTHEAST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19845 OVER 185TH STREET.

Station Notes

NEW BRIDGE PUT IN PLACE, UNSTAMPED SURVEY DISK IN THE NORTHWEST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 OVER 185TH STREET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1032.117	0.016	314.590	0.005	2/0	1991	00000025
NGVD29	1031.957	0.016	314.541	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -900000 12B = -90.003 09 = -89.941 03 = -89.741

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7123.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7123.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 H

NGS Name: 1980 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0877](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	12	114 N	21 W	444121.00	931734.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2014	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2012) **Stamping:** 1980-H 1970

IN LAKEVILLE. 0.5 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, 0.3 MILE SOUTH OF A RAILROAD BRIDGE. 18.0 FEET EAST OF THE WEST FRONTAGE ROAD, 2.0 FEET EAST OF A WEST RIGHT-OF-WAY FENCE, 1.0 FOOT EAST OF A WITNESS POST, 91.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35 AT STATION 680+85. A DRAINAGE DITCH FALLS IN THE TIE LOCATION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1038.230	0.016	316.453	0.005	2/0	1991	00000025
NGVD29	1038.075	0.016	316.406	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -89.931 12B = -89.931 09 = -89.872 03 = -89.675

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7124.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7124.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 J 1

NGS Name: 1980 J 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0875](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	12	114 N	21 W	444140.00	931723.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	19805		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980 J 1 1970

IN LAKEVILLE, 0.2 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, IN THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19805 OVER A RAILROAD.

Station Notes

BRIDGE HAS BEEN REDONE, UNSTAMPED VERTICAL CONTROL MARK IS NOW IN PLACE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1054.588	0.016	321.439	0.005	2/0	1991	00000025
NGVD29	1054.434	0.016	321.392	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.915 09 = -89.855 03 = -89.659

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7125.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7125.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 J 2

NGS Name: 1980 J 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0876](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	12	114 N	21 W	444141.00	931723.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	6410		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980 J 2 1970

AT LAKEVILLE, 0.2 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35, IN THE SOUTHEAST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 6410 OVER A RAILROAD.

Station Notes

BRIDGE HAS BEEN REMOVED, UNSTAMPED VERTICAL CONTROL MARK (DISK) IS NOW IN PLACE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1050.638	0.016	320.235	0.005	2/0	1991	00000025
NGVD29	1050.487	0.016	320.189	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -89.911 12B = -89.911 09 = -89.852 03 = -89.655

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7126.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7126.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 K 1

NGS Name: 1980 K 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0873](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	12	114 N	21 W	444150.44	931717.66	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=NO	YES	19808	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1980 K 1 1970

IN LAKEVILLE, 2.5 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35W AND INTERSTATE HIGHWAY 35E, AT THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 50, IN THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19808 OVER COUNTY ROAD 50.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1033.590	0.016	315.039	0.005	2/1	2016	00000879
NGVD29	1033.423	0.016	314.988	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.905 12B = -89.901 09 = -89.846 03 = -89.649

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_K_1-PP0873-3N-02NOV2022.jpg	N	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_K_1-PP0873-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_K_1-PP0873-1-22SEP2011.jpg		Sep 22, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7127.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7127.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 K 2

NGS Name: 1980 K 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0874](#) [Get Map](#)
NGS Quad / Sta Num : 44093131/
USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	12	114 N	21 W	444152.87	931718.04	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=NO	YES	19807	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1980 K 2 1970

IN LAKEVILLE, 2.5 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35W AND INTERSTATE HIGHWAY 35E, AT THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 50, IN THE NORTHWEST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19807 OVER COUNTY ROAD 50.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1029.647	0.016	313.837	0.005	2/1	2016	00000879
NGVD29	1029.466	0.016	313.782	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.898 12B = -89.895 09 = -89.839 03 = -89.642

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_K_2-PP0874-3S-02NOV2022.jpg	S	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_K_2-PP0874-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_K_2-PP0874-1-22SEP2011.jpg		Sep 22, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7128.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7128.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 L

NGS Name: 1980 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0872](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	1	114 N	21 W	444219.00	931705.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980-L 1970

AT LAKEVILLE, 1.9 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND INTERSTATE HIGHWAY 35 WEST, 0.6 MILE NORTH OF COUNTY ROAD 50, 300.0 FEET SOUTH OF A BUS STOP, 250.0 FEET NORTHWEST OF A 24.0 INCH DIAMETER CONCRETE CULVERT UNDER AN ENTRANCE TO A BUS STOP, 75.0 FEET EAST OF INTERSTATE HIGHWAY 35 AT STATION 1602+16.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1017.121	0.016	310.019	0.005	2/0	1991	00000025
NGVD29	1016.970	0.016	309.973	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.869 12B = -89.865 09 = -89.813 03 = -89.613

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7129.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7129.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 M

NGS Name: 1980 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0871](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	114 N	21 W	444243.00	931701.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2012) **Stamping:** 1980-M 1970

IN LAKEVILLE, 1.5 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND INTERSTATE HIGHWAY 35 WEST, 1.05 MILES NORTH OF TRUNK HIGHWAY 50, 115.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35 AT STATION 1627+89, 82.0 FEET SOUTHEAST OF THE EAST END OF A CONCRETE CULVERT UNDER INTERSTATE HIGHWAY 35, 17.0 FEET WEST OF THE EAST FRONTAGE ROAD, 2.0 FEET WEST OF A FENCE LINE, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	964.673	0.016	294.033	0.005	2/0	1991	00000025
NGVD29	964.522	0.016	293.987	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.823 12B = -89.819 09 = -89.764 03 = -89.563

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7130.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7130.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 N

NGS Name: 1980 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0869](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	115 N	21 W	444327.00	931657.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980-N 1970

IN BURNSVILLE, 0.95 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND INTERSTATE HIGHWAY 35 WEST, 2.0 MILES NORTH OF COUNTY ROAD 50, 0.45 MILE SOUTH OF CRYSTAL LAKE ROAD, 264.0 FEET SOUTH OF AN ENTRANCE TO THE BUCK HILL SKI AREA, 166.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35 AT STATION 1607+92, 49.0 FEET WEST OF THE WEST FRONTAGE ROAD, 55.0 FEET WEST OF THE WEST END OF A CULVERT.

Station Notes

FRONTAGE ROAD HAS BEEN WIDENED, THE TIES FALL IN A LANDSCAPED AREA IN FRONT OF THE BUCK HILL PARKING LOT. FILL HAS BEEN ADDED IN LOCATION VARIES BETWEEN 5.0 FEET AND 7.0 FEET DEEP.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	982.708	0.016	299.530	0.005	2/0	1991	00000025
NGVD29	982.547	0.016	299.481	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.724 12B = -89.721 09 = -89.665 03 = -89.468

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7131.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7131.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 P

NGS Name: 1980 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0867](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	36	115 N	21 W	444350.00	931658.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1980 P 1970

IN BURNSVILLE, 0.5 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND INTERSTATE HIGHWAY 35W, IN THE SOUTHEAST CORNER OF CRYSTAL LAKE ROAD BRIDGE NUMBER 19806 OVER INTERSTATE HIGHWAY 35.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1021.255	0.016	311.279	0.005	2/0	2000	00000359
NGVD29	1021.038	0.016	311.213	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.665 12B = -89.659 09 = -89.606 03 = -89.413

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7132.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7132.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 P 1

NGS Name: 1980 P 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0868](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	115 N	21 W	444350.00	931657.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2006	DESTROYED	Horz=NO Vert=NO	NO	19806	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1989) **Stamping:** 1980 P 1 1971

AT BURNSVILLE, 0.5 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND INTERSTATE HIGHWAY 35 WEST, IN THE CENTER OF THE NORTH CURB ABOVE PIER ON CRYSTAL LAKE ROAD BRIDGE NUMBER 19806 OVER INTERSTATE HIGHWAY 35.

Station Notes

NEW BRIDGE NUMBER 19804 IN PLACE, 1988 BUILT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1024.168	0.016	312.167	0.005	2/0	2000	00000359
NGVD29	1023.958	0.016	312.103	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.668 12B = -89.662 09 = -89.609 03 = -89.416

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7133.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 P RESET

NGS Name: 1980 P RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR2889](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	115 N	21 W	444348.88	931657.24	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19804	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1980 P RESET 1989

IN BURNSVILLE, 0.5 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST-INTERSTATE HIGHWAY 35 WEST, IN THE SOUTHEAST CORNER OF CRYSTAL LAKE ROAD BRIDGE NUMBER 19804 OVER INTERSTATE HIGHWAY 35, 1.9 FEET WEST OF THE EAST EDGE OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

NEW BRIDGE NUMBER 19804 IN PLACE, 1988 BUILT. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1024.703	0.016	312.330	0.005	2/1	2020	00000425-41

Geoid Separations(ft): GEOID18 = -89.672 12B = -89.665 09 = -89.613 03 = -89.419

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_P_RESET-DR2889-3S-11JUL2023.jpg	S	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_P_RESET-DR2889-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_P_RESET-DR2889-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7134.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 Q

NGS Name: 1980 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0866](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	115 N	21 W	444406.00	931659.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1980 Q 1970

IN BURNSVILLE, 0.3 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND INTERSTATE HIGHWAY 35W, 0.25 MILE NORTH OF CRYSTAL LAKE ROAD, 119.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35 AT STATION 1711+73, 176.0 FEET NORTHEAST OF THE EAST END OF A CULVERT, 19.0 FEET WEST OF THE EAST FRONTAGE ROAD, 4.0 FEET WEST OF A RIGHT-OF-WAY FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	979.437	0.016	298.533	0.005	2/0	1991	00000025
NGVD29	979.273	0.016	298.483	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -89.623 12B = -89.616 09 = -89.567 03 = -89.373

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_Q-PP0866-3E-14APR2009.jpg	E	Apr 14, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_Q-PP0866-2-14APR2009.jpg		Apr 14, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_Q-PP0866-1-14APR2009.jpg		Apr 14, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7135.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7135.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 R

NGS Name: 1980 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4326](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	115 N	21 W	444412.68	931658.93	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19892	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1980 R 1981

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 88.3, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19892 OVER 146TH STREET (SOUTH CROSS DRIVE), 24.5 FEET EAST OF INTERSTATE HIGHWAY 35 EAST, 27.2 FEET NORTH OF A STEEL SIGNPOST FOR A LARGE OVERHEAD SIGN, 13.3 FEET NORTH OF THE SOUTH END OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	974.545	0.016	297.042	0.005	2/1	2020	00000425-41
NGVD29	974.306	0.016	296.969	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.609 12B = -89.600 09 = -89.550 03 = -89.357

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_R-AH4326-3N-11JUL2023.jpg	N	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_R-AH4326-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_R-AH4326-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7136.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7136.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 S

NGS Name: 1980 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4327](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	115 N	21 W	444412.84	931700.22	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19891	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010)

Stamping: 1980 S 1981

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 88.3, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19891 OVER 146TH STREET, 18.5 FEET EAST OF INTERSTATE HIGHWAY 35 WEST, 40.3 FEET NORTH OF A STEEL SIGNPOST FOR A LARGE OVERHEAD SIGN, 9.0 FEET NORTH OF THE SOUTHEAST CORNER OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	975.726	0.016	297.402	0.005	2/1	2020	00000425-41
NGVD29	975.503	0.016	297.334	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.603 12B = -89.596 09 = -89.547 03 = -89.353

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_S-AH4327-3N-11JUL2023.jpg	N	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_S-AH4327-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_S-AH4327-1-25OCT2005.jpg		Oct 25, 2005

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7137.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7137.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 T

NGS Name: 1980 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6170](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	36	114 N	21 W	443813.16	931749.58	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1980 T 2014

IN LAKEVILLE, 4.3 MILES NORTH ALONG NORTHBOUND INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 2 IN ELKO NEW MARKET, AT INTERSTATE HIGHWAY 35 MILEPOINT 81.25, 59.2 FEET EAST OF A NORTHBOUND INTERSTATE HIGHWAY 35 FOG LINE, 0.6 MILE SOUTH OF COUNTY ROAD 70 (EXIT 81). 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1101.477	0.016	335.731	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.387 12B = -90.394 09 = -90.348 03 = -90.134

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 38 13.15958	93 17 49.57640	505092.445	160174.443	153952.485	48821.268	308.182			2015	GPS3054	
NAD83 (1996)	44 38 13.15945	93 17 49.57645	505092.441	160174.430	153952.484	48821.264	308.243	C		2014	HBUCK	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_T-DP6170-3E-03NOV2022.jpg	E	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_T-DP6170-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_T-DP6170-1-04AUG2014.jpg		Aug 4, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102052.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102052.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 U

NGS Name: 1980 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6171](#) [Get Map](#)
NGS Quad / Sta Num : 44093131/
USGS Quad: ORCHARD LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	24	114 N	21 W	444009.01	931737.66	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2022	NOT FOUND	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1980 U 2014

IN LAKEVILLE, 1.6 MILES NORTH ALONG NORTHBOUND INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 70 IN LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 83.45, 43.4 FEET EAST OF A NORTHBOUND INTERSTATE HIGHWAY 35 FOG LINE, 0.15 MILE NORTH OF A 195TH STREET WEST BRIDGE OVER INTERSTATE HIGHWAY 35, 29.0 FEET WEST OF A RIGHT-OF-WAY FENCE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	993.259	0.016	302.746	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.111 12B = -90.118 09 = -90.056 03 = -89.849

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 40 09.00622	93 17 37.65762	505951.015	171907.258	154214.178	52397.437	275.281	2015	GPS3054			
NAD83 (1996)	44 40 09.00610	93 17 37.65766	505951.012	171907.245	154214.177	52397.433	275.343	2014	HBUCK	C		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_U-DP6171-3E-05AUG2014.jpg	E	Aug 5, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_U-DP6171-2-05AUG2014.jpg		Aug 5, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_U-DP6171-1-05AUG2014.jpg		Aug 5, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102053.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102053.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 V

NGS Name: 1980 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6172](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	114 N	21 W	444101.75	931734.56	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	NO		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1980 V 2014

IN LAKEVILLE, 2.7 MILES NORTH ALONG NORTHBOUND INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 70 IN LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 84.45, 26.7 FEET EAST OF A NORTHBOUND INTERSTATE HIGHWAY 35 FOG LINE, 24.1 FEET WEST-SOUTHWEST OF AN ON RAMP FROM WESTBOUND COUNTY ROAD 60 TO NORTHBOUND INTERSTATE HIGHWAY 35, 49.3 FEET WEST OF A RIGHT-OF-WAY FENCE, 0.2 MILE NORTH OF COUNTY ROAD 60, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1023.820	0.016	312.061	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -89.980 12B = -89.983 09 = -89.921 03 = -89.721

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 01.75247	93 17 34.56292	506173.118	177249.319	154281.875	54025.701	284.632			2015	GPS3054	
NAD83 (1996)	44 41 01.75236	93 17 34.56295	506173.115	177249.308	154281.874	54025.697	284.692	C		2014	HBUCK	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_V-DP6172-3E-03NOV2022.jpg	E	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_V-DP6172-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_V-DP6172-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102054.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102054.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1980 W

NGS Name: 1980 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6173](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	1	114 N	21 W	444225.39	931704.85	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1980 W 2014

IN LAKEVILLE, 0.7 MILE NORTH ALONG INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 5 AND COUNTY ROAD 50 IN LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 86.15, 26.1 FEET EAST OF A NORTHBOUND INTERSTATE HIGHWAY 35 FOG LINE, 40.4 FEET WEST OF AN OFF AND ON RAMP FROM NORTHBOUND INTERSTATE HIGHWAY 35 TO A METRO TRANSIT PARKING RAMP, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1013.965	0.016	309.057	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -89.855 12B = -89.852 09 = -89.796 03 = -89.596

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 42 25.38505	93 17 04.85561	508316.244	185720.161	154935.101	56607.618	281.668			2015	GPS3054	
NAD83 (1996)	44 42 25.38491	93 17 04.85565	508316.241	185720.147	154935.100	56607.614	281.727	C		2014	HBUCK	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_W-DP6173-3E-03NOV2022.jpg	E	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_W-DP6173-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1980_W-DP6173-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102055.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102055.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 A

NGS Name: 1981 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0865](#) [Get Map](#)
NGS Quad / Sta Num : 44093131/
USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	115 N	21 W	444421.45	931700.51	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	GOOD	Horz=NO Vert=NO	YES	19809	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1981 A 1970

IN BURNSVILLE, AT THE JUNCTION OF INTERSTATE HIGHWAY 35W AND INTERSTATE HIGHWAY 35E, IN THE SOUTHEAST ABUTMENT IN THE CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35E BRIDGE NUMBER 19809 OVER INTERSTATE HIGHWAY 35W. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	995.451	0.016	303.414	0.005	2/1	2020	00000955
NGVD29	995.244	0.016	303.351	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.583 12B = -89.577 09 = -89.527 03 = -89.334

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 44 21.45273	93 17 00.51361	508625.051	197475.400	155029.226	60190.622	276.199	3	1999	17648		
NAD83 (1986)	44 44 21.44529	93 17 00.51165	508625.193	197474.647	155029.269	60190.393		3	1986	17289		
NAD27	44 44 21.57532	93 16 59.70955						3	1986	10744		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_A-PP0865-3N-11JUL2023.jpg	N	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_A-PP0865-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_A-PP0865-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7138.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7138.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 B

NGS Name: 1981 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0864](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	25	115 N	21 W	444443.00	931658.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO	19862	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1989) **Stamping:** 1981 B 1972

IN BURNSVILLE, 1.9 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35WEST AND TRUNK HIGHWAY 13, IN THE SOUTHEAST CORNER OF COUNTY ROAD 42 BRIDGE NUMBER 19862 OVER INTERSTATE HIGHWAY 35 WEST.

Station Notes
BRIDGE HAS BEEN REPLACED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1028.266	0.016	313.416	0.005	2/0	2000	00000359
NGVD29	1028.043	0.016	313.348	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.541 12B = -89.531 09 = -89.485 03 = -89.291

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7139.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7139.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 C

NGS Name: 1981 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0863](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	24	115 N	21 W	444509.70	931708.70	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2007	DESTROYED	Horz=NO Vert=NO	YES			STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (1970) **Stamping:** 1981 C 1972

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 1.1, 1.65 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND TRUNK HIGHWAY 13, 0.55 MILE NORTH OF COUNTY ROAD 42, 97.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W, 69.0 FEET SOUTH OF A RIGHT-OF-WAY FENCE CORNER, 2.0 FEET WEST OF A RIGHT-OF-WAY FENCE, 75.0 FEET NORTH OF A BRIDGE OVER INTERSTATE HIGHWAY 35 W, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes

GRADED OUT DURING CURRENT CONSTRUCTION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	987.787	0.016	301.078	0.005	2/0	1991	00000025
NGVD29	987.567	0.016	301.011	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.458 12B = -89.452 09 = -89.403 03 = -89.212

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_C-PP0863-3E-30OCT2006.jpg	E	Oct 30, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_C-PP0863-2-30OCT2006.jpg		Oct 30, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_C-PP0863-1-30OCT2006.jpg		Oct 30, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7140.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 D

NGS Name: 1981 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0859](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	24	115 N	21 W	444538.00	931721.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2000) **Stamping:** 1981 D 1970

IN BURNSVILLE, 1.0 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND TRUNK HIGHWAY 13, 0.05 MILE SOUTHEAST OF SOUTHBOUND INTERSTATE HIGHWAY 35W COUNTY ROAD 42 3/4 MILES SIGN, 96.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W, 22.0 FEET NORTHWEST OF A 14.0 INCH DIAMETER OAK TREE, 13.0 FEET SOUTH OF AN 8.0 INCH DIAMETER OAK TREE, 2.0 FEET WEST OF A RIGHT-OF-WAY FENCE, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes

NOISE WALL HAS BEEN CONSTRUCTED IN LOCATION AND DITCH WORK HAS BEEN DONE RECENTLY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	996.793	0.016	303.823	0.005	2/0	1997	00000231
NGVD29	996.576	0.016	303.757	0.005	2	1980	L24610

Geoid Separations(ft): GEOID18 = -89.376 12B = -89.376 09 = -89.321 03 = -89.130

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7141.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 E

NGS Name: 1981 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0857](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	115 N	21 W	444611.04	931717.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1969	2023	GOOD	Horz=NO Vert=NO	YES	19863	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1981 E 1970

IN BURNSVILLE, IN A BRIDGE ABUTMENT IN THE SOUTHEAST CORNER OF WEST BURNSVILLE PARKWAY BRIDGE NUMBER 19863 OVER INTERSTATE HIGHWAY 35W, 0.25 MILE SOUTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE. THE DISK WAS SET IN 1969, THEN STAMPED WHEN FIRST USED IN 1970. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	915.953	0.016	279.183	0.005	2/1	2016	00000879
NGVD29	915.740	0.016	279.118	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.334 12B = -89.337 09 = -89.275 03 = -89.088

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_E-PP0857-3S-12JUL2023.jpg	S	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_E-PP0857-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_E-PP0857-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7142.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 F 1

NGS Name: 1981 F 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0854](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	115 N	21 W	444630.37	931716.78	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	GOOD	Horz=NO Vert=NO	YES	9780	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1981 F 1 1970

IN BURNSVILLE, IN A BRIDGE ABUTMENT IN THE SOUTHEAST CORNER OF EASTBOUND TRUNK HIGHWAY 13 BRIDGE NUMBER 9780 OVER INTERSTATE HIGHWAY 35W, AT THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	836.672	0.016	255.018	0.005	2/1	2016	00000879
NGVD29	836.439	0.016	254.947	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.311 12B = -89.314 09 = -89.249 03 = -89.058

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_F_1-PP0854-3W-12JUL2023.jpg	W	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_F_1-PP0854-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_F_1-PP0854-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7143.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 F 2

NGS Name: 1981 F 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0855](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	115 N	21 W	444631.18	931719.43	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	GOOD	Horz=NO Vert=NO	YES	9779	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1980) **Stamping:** 1981 F 2 1970

IN BURNSVILLE, IN A BRIDGE ABUTMENT IN THE NORTHWEST CORNER OF WESTBOUND TRUNK HIGHWAY 13 BRIDGE NUMBER 9779 OVER INTERSTATE HIGHWAY 35W, AT THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	833.673	0.016	254.104	0.005	2/1	2016	00000879
NGVD29	833.450	0.016	254.036	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.308 12B = -89.308 09 = -89.242 03 = -89.052

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_F_2-PP0855-3E-12JUL2023.jpg	E	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_F_2-PP0855-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_F_2-PP0855-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7144.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7144.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 G

NGS Name: 1981 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0853](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	27 N	24 W	444655.00	931717.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	6583		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE CURB	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1981 G 1970

IN BURNSVILLE, 0.5 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13, 1.3 MILES SOUTH OF THE MINNESOTA RIVER, IN THE SOUTHEAST CORNER OF A CURB ON INTERSTATE HIGHWAY 35W BRIDGE NUMBER 6583 OVER 132ND STREET AND A RAILROAD.

Station Notes

THE STATION WAS FOUND TO BE DESTROYED IN 1988.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	759.057	0.016	231.361	0.005	2/0	1991	00000025
NGVD29	758.844	0.016	231.296	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -89.281 12B = -89.285 09 = -89.212 03 = -89.025

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7145.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7145.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 H

NGS Name: 1981 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0851](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	27 N	24 W	444756.00	931721.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	5983		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE CURB	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1981 H 1970

IN BURNSVILLE, 1.8 MILES NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND TRUNK HIGHWAY 13, IN THE SOUTHEAST CORNER OF A CURB ON INTERSTATE HIGHWAY 35 WEST BRIDGE NUMBER 5983 OVER THE MINNESOTA RIVER.

Station Notes

THE MARK WAS DESTROYED DURING BRIDGE REMODELING IN 1984.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	744.687	0.016	226.981	0.005	2/0	1991	00000025
NGVD29	744.480	0.016	226.918	0.005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -89.193 12B = -89.196 09 = -89.111 03 = -88.937

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7146.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7146.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 J

NGS Name: 1981 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	27 N	24 W	444655.28	931717.59		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=NO Vert=NO	YES	6583	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1981 J 2011

IN BURNSVILLE, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 35W BRIDGE NUMBER 6583 OVER CLIFF ROAD AND THE RAILROAD TRACKS, 0.4 MILE NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 3.15, 37.2 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W, 11.7 FEET NORTH OF THE SOUTH END OF A CONCRETE BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.281 12B = -89.281 09 = -89.212 03 = -89.022

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_J-3NE-12JUL2023.jpg	NE	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_J-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_J-1-12JUL2023.jpg		Jul 12, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95141.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95141.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 K

NGS Name: 1981 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	27 N	24 W	444755.91	931721.80		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	DESTROYED	Horz=NO Vert=NO	YES	5983	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1981 K 2011

IN BURNSVILLE, IN A RAILING IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 35W BRIDGE NUMBER 5983 OVER THE MINNESOTA RIVER, 1.5 MILES NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 4.25, 30.5 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W, 5.3 FEET NORTH OF THE SOUTH EDGE OF A RAIL.

Station Notes

NEW BRIDGE NUMBER BR27W38 BUILT IN 2021.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.193 12B = -89.196 09 = -89.111 03 = -88.937

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_K-3E-12JUL2023.jpg	E	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_K-2-06DEC2011.jpg		Dec 6, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_K-1-06DEC2011.jpg		Dec 6, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95143.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95143.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 L

NGS Name: 1981 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6174](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	115 N	21 W	444449.78	931656.86	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1981 L 2014

IN BURNSVILLE, 0.1 MILE NORTH ALONG AN ON RAMP FROM COUNTY ROAD 42 TO NORTHBOUND INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND COUNTY ROAD 42 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 0.70, 250.0 FEET EAST-NORTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35W, 7.4 FEET SOUTHWEST OF A RIGHT-OF-WAY FENCE, 87.5 FEET NORTHEAST OF THE CENTER RAMP AND CARPOOL RAMP FROM COUNTY ROAD 42 TO NORTHBOUND INTERSTATE HIGHWAY 35W, 7.0 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1018.433	0.016	310.419	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.527 12B = -89.521 09 = -89.472 03 = -89.281

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 49.77743	93 16 56.85996	508887.583	200344.191	155109.246	61065.032	283.133	2022	C	2022	GPS3553	
NAD83 (1996)	44 44 49.77730	93 16 56.86000	508887.580	200344.178	155109.245	61065.028	283.195	2022	C	2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_L-DP6174-3NE-11JUL2023.jpg	NE	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_L-DP6174-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_L-DP6174-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102056.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102056.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 M

NGS Name: 1981 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6175](#) [Get Map](#)
NGS Quad / Sta Num : 44093142/
USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	13	115 N	21 W	444541.47	931719.25	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 54 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1981 M 2014

IN BURNSVILLE, 1.15 MILES NORTH ALONG INTERSTATE HIGHWAY 35 WEST FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND COUNTY ROAD 42 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35 WEST MILEPOINT 1.75, 44.7 FEET EAST OF A NORTHBOUND 35 WEST FOG LINE, 30.7 FEET EAST OF GUARDRAIL, 30.6 FEET NORTH OF THE SOUTH END OF A GUARDRAIL, 58.2 FEET WEST OF A SOUND BARRIER, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	973.453	0.016	296.709	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.376 12B = -89.373 09 = -89.321 03 = -89.130

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 41.46534	93 17 19.24517	507270.140	205578.457	154616.248	62660.439	269.458	2022	C	2022	GPS3553	
NAD83 (1996)	44 45 41.46523	93 17 19.24523	507270.136	205578.446	154616.247	62660.436	269.523	2022	C	2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_M-DP6175-3E-12JUL2023.jpg	E	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_M-DP6175-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_M-DP6175-1-12JUL2023.jpg		Jul 12, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102057.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102057.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 N

NGS Name: 1981 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR8517](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	25	115 N	21 W	444419.45	931658.02	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2022	GOOD	Horz=YES Vert=YES	NO		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2022) **Stamping:** 1981 N 2022

IN BURNSVILLE, 0.10 MILES NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND INTERSTATE HIGHWAY 35E IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 0.10, 53.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W FOG LINE, 24.5 FEET WEST OF NORTHBOUND INTERSTATE HIGHWAY 35E FOG LINE, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	972.032	0.016	296.276	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.596 03 = -89.344

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 19.44768	93 16 58.01665	508805.377	197272.406	155084.189	60128.750	268.962	2022	C	2022	GPS3553	
NAD83 (1996)	44 44 19.44744	93 16 58.01670	508805.374	197272.382	155084.188	60128.742	269.019	2022	C	2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_N-DR8517-3W-01AUG2022.jpg	W	Aug 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_N-DR8517-2-01AUG2022.jpg		Aug 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_N-DR8517-1-01AUG2022.jpg		Aug 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110622.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110622.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 P

NGS Name: 1981 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR8518](#) [Get Map](#)
NGS Quad / Sta Num : 44093142/
USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	13	115 N	21 W	444557.79	931717.79	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2022	GOOD	Horz=YES Vert=YES	NO		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 89 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2022) **Stamping:** 1981 P 2022

IN BURNSVILLE, 2.05 MILES NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND INTERSTATE HIGHWAY 35E IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 2.05, 85.4 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W FOG LINE, 54.9 FEET EAST OF EXIT RAMP FROM NORTHBOUND INTERSTATE HIGHWAY 35W TO BURNSVILLE PARKWAY, 75.7 FEET WEST OF A SOUND WALL, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	927.459	0.016	282.690	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.353 03 = -89.107

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 57.79143	93 17 17.79115	507374.481	207231.981	154648.051	63164.434	255.431			2022	GPS3553	
NAD83 (1996)	44 45 57.79119	93 17 17.79120	507374.477	207231.957	154648.050	63164.427	255.489	C		2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_P-DR8518-3E-02AUG2022.jpg	E	Aug 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_P-DR8518-2-02AUG2022.jpg		Aug 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_P-DR8518-1-02AUG2022.jpg		Aug 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110623.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110623.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 Q

NGS Name: 1981 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR8519](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	27 N	24 W	444719.55	931718.21	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2022	GOOD	Horz=YES Vert=YES	NO		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2022) **Stamping:** 1981 Q 2022

IN BURNSVILLE, 0.5 MILES NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, THEN 0.1 MILE EAST ON CLIFF ROAD, THEN 0.1 MILE NORTH ON FRONTAGE ROAD, THEN 0.2 MILE NORTH ON BIKE TRAIL, 34.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W FOG LINE, 24.0 FEET WEST OF BIKE TRAIL, 13.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	712.157	0.016	217.066	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.249 03 = -88.989

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 19.55007	93 17 18.21189	507341.249	215512.414	154637.922	65688.315	189.863	2022	C	2022	GPS3553	
NAD83 (1996)	44 47 19.54983	93 17 18.21194	507341.245	215512.390	154637.921	65688.308	189.920	2022	C	2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_Q-DR8519-3W-01AUG2022.jpg	W	Aug 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_Q-DR8519-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_Q-DR8519-1-12JUL2023.jpg		Jul 12, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110624.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110624.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 R

NGS Name: 1981 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR8520](#) [Get Map](#)
NGS Quad / Sta Num : 44093142/
USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	33	27 N	24 W	444705.43	931721.94	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2022	GOOD	Horz=YES Vert=YES	NO		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 16 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2022) **Stamping:** 1981 R 2022

IN BURNSVILLE, 0.95 MILES SOUTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND BLACK DOG ROAD IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 3.3, 179.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35W FOG LINE, 153.0 FEET NORTHWEST OF EXIT RAMP FROM SOUTHBOUND INTERSTATE HIGHWAY 35W TO CLIFF ROAD, 9.5 FEET SOUTH OF A CHAIN LINK FENCE, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	726.449	0.016	221.422	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.262 03 = -89.002

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 05.42622	93 17 21.93891	507072.924	214081.868	154556.136	65252.284	194.211	2022	C	2022	GPS3553	
NAD83 (1996)	44 47 05.42598	93 17 21.93896	507072.921	214081.844	154556.135	65252.277	194.268	2022	C	2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_R-DR8520-3W-01AUG2022.jpg	W	Aug 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_R-DR8520-2-01AUG2022.jpg		Aug 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_R-DR8520-1-01AUG2022.jpg		Aug 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110626.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 S

NGS Name: 1981 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR8521](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	115 N	21 W	444602.43	931721.43	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2022	GOOD	Horz=YES Vert=YES	NO		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 84 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2022) **Stamping:** 1981 S 2022

IN BURNSVILLE, 0.55 MILES SOUTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 2.05, 90.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35W FOG LINE, 32.0 FEET WEST OF ENTRANCE RAMP FROM BURNSVILLE PARKWAY TO SOUTHBOUND INTERSTATE HIGHWAY 35E, 9.2 FEET EAST OF CHAIN LINK FENCE, 9.0 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	913.509	0.016	278.438	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.340 03 = -89.091

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 02.42945	93 17 21.43010	507111.769	207701.625	154567.976	63307.582	251.202			2022	GPS3553	
NAD83 (1996)	44 46 02.42921	93 17 21.43015	507111.765	207701.601	154567.975	63307.575	251.259	C		2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_S-DR8521-3W-02AUG2022.jpg	W	Aug 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_S-DR8521-2-02AUG2022.jpg		Aug 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_S-DR8521-1-02AUG2022.jpg		Aug 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110627.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 T

NGS Name: 1981 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR8522](#) [Get Map](#)
NGS Quad / Sta Num : 44093142/
USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	24	115 N	21 W	444520.74	931718.05	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2022) **Stamping:** 1981 T 2022

IN BURNSVILLE, 1.35 MILES SOUTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 1.3, 46.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35W FOG LINE, 31.0 FEET WEST OF A GUARD RAIL, 44.5 FEET EAST OF A SOUND WALL, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	991.501	0.016	302.210	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.416 03 = -89.170

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 20.73515	93 17 18.05222	507356.950	203478.959	154642.708	62020.511	274.950	2022	C	2022	GPS3553	
NAD83 (1996)	44 45 20.73492	93 17 18.05228	507356.945	203478.936	154642.706	62020.504	275.007	2022	C	2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_T-DR8522-3W-01AUG2022.jpg	W	Aug 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_T-DR8522-2-01AUG2022.jpg		Aug 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_T-DR8522-1-01AUG2022.jpg		Aug 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110628.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110628.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1981 U

NGS Name: 1981 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR8523](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	25	115 N	21 W	444438.66	931700.14	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2022	GOOD	Horz=YES Vert=YES	NO		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2022) **Stamping:** 1981 U 2022

IN BURNSVILLE, 2.15 MILES SOUTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 0.5, 107.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35W FOG LINE, 5.6 FEET EAST OF CHAIN LINK FENCE, 5.6 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	999.306	0.016	304.589	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.544 03 = -89.298

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 38.65965	93 17 00.14087	508651.245	199218.101	155037.210	60721.799	277.289			2022	GPS3553	
NAD83 (1996)	44 44 38.65942	93 17 00.14092	508651.241	199218.078	155037.208	60721.792	277.346	C		2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_U-DR8523-3W-02AUG2022.jpg	W	Aug 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_U-DR8523-2-02AUG2022.jpg		Aug 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1981_U-DR8523-1-02AUG2022.jpg		Aug 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110625.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110625.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 A

NGS Name: 1982 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7018](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	25	115 N	21 W	444430.64	931643.94	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 A 2014

IN BURNSVILLE, 0.4 MILE NORTHEAST ALONG INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND INTERSTATE HIGHWAY 35 AND INTERSTATE HIGHWAY 35W AND SOUTHCROSS DRIVE WEST IN BURNSVILLE, AT INTERSTATE HIGHWAY 35E MILEPOINT 88.7, 54.3 FEET SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35E OFF RAMP TO COUNTY ROAD 42, 5.1 FEET NORTHWEST OF A RIGHT-OF-WAY FENCE, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1003.577	0.016	305.891	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.603 12B = -89.596 09 = -89.547 03 = -89.353

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 30.64110	93 16 43.94447	509820.653	198406.505	155393.646	60474.424	278.600	C	2015	GPS3085		
NAD83 (1996)	44 44 30.64092	93 16 43.94463	509820.641	198406.487	155393.642	60474.418	278.668	C	2015	HDOTA		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_A-DP7018-3E-11JUL2023.jpg	E	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_A-DP7018-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_A-DP7018-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101791.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101791.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AB

NGS Name: 1982 AB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4328](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	115 N	21 W	444413.42	931704.38	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19893	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AB 1981

IN BURNSVILLE, AT SOUTHBOUND INTERSTATE HIGHWAY 35E CONNECTOR BRIDGE TO INTERSTATE HIGHWAY 35 AT MILEPOINT 88.3, ON THE TOP OF A RAILING IN THE SOUTHEAST CORNER OF BRIDGE NUMBER 19893 OVER 146TH STREET, 18.5 FEET EAST OF INTERSTATE HIGHWAY 35E, 1.4 FEET NORTH OF THE SOUTH EDGE OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	985.904	0.016	300.504	0.005	2/1	2020	00000425-41
NGVD29	985.700	0.016	300.442	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.593 12B = -89.583 09 = -89.534 03 = -89.344

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AB-AH4328-3N-11JUL2023.jpg	N	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AB-AH4328-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AB-AH4328-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7147.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7147.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AB 1

NGS Name: 1982 AB 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4329](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	115 N	21 W	444416.49	931703.58	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19893	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AB 1 1988

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35 EAST CONNECTOR BRIDGE TO INTERSTATE HIGHWAY 35 EAST AT MILEPOINT 88.45, IN THE NORTHEAST CORNER, TOP OF A RAILING ON INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19893 OVER 146TH STREET, ON THE TOP OF A RAILING IN THE NORTHEAST CORNER OF BRIDGE NUMBER 19893 OVER 146TH STREET, 18.5 FEET EAST OF INTERSTATE HIGHWAY 35 EAST, 1.2 FEET SOUTH OF THE NORTH EDGE OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	988.289	0.016	301.231	0.005	2/1	2020	00000425-41
NGVD29	988.082	0.016	301.168	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.586 12B = -89.580 09 = -89.531 03 = -89.337

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AB_1-AH4329-3E-03OCT2011.jpg	E	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AB_1-AH4329-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AB_1-AH4329-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7148.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7148.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AC

NGS Name: 1982 AC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4330](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	30	115 N	20 W	444434.90	931639.17	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19812	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 AC 1981

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35 EAST MILEPOINT 88.8, IN THE TOP OF A RAILING ON NORTHBOUND INTERSTATE HIGHWAY 35 EAST BRIDGE NUMBER 19812 OVER COUNTY ROAD 42, 24.5 FEET EAST OF INTERSTATE HIGHWAY 35 EAST, 15.7 FEET NORTH OF THE SOUTH CORNER OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1025.060	0.016	312.439	0.005	2/1	2000	00000359
NGVD29	1024.834	0.016	312.370	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.606 12B = -89.596 09 = -89.550 03 = -89.357

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AC-AH4330-3E-11JUL2023.jpg	E	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AC-AH4330-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AC-AH4330-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7149.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AD

NGS Name: 1982 AD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4332](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	115 N	20 W	444455.48	931605.33	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19889	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AD 1981

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35 EAST MILEPOINT 89.45, IN THE TOP OF A RAILING AT THE NORTHEAST CORNER OF PORTLAND AVENUE BRIDGE NUMBER 19889 OVER INTERSTATE HIGHWAY 35 EAST, 35.0 FEET EAST OF PORTLAND AVENUE, 0.9 FOOT NORTH OF THE EASTERLY BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1060.201	0.016	323.150	0.005	2/1	2000	00000359
NGVD29	1059.975	0.016	323.081	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.642 12B = -89.636 09 = -89.590 03 = -89.396

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AD-AH4332-3E-11JUL2023.jpg	E	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AD-AH4332-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AD-AH4332-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7150.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7150.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AD 1

NGS Name: 1982 AD 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4331](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	115 N	20 W	444456.17	931604.62	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AD 1 1989

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35E MILEPOINT 89.45, NEAR A PORTLAND AVENUE BRIDGE OVER INTERSTATE HIGHWAY 35E, 82.2 FEET SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 56.3 FEET EAST OF THE SOUTH BRIDGE ABUTMENT, 1.0 FOOT SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1036.550	0.016	315.941	0.005	2/1	2020	00000955
NGVD29	1036.281	0.016	315.859	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.642 12B = -89.636 09 = -89.590 03 = -89.396

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AD_1-AH4331-3NW-11JUL2023.jpg	NW	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AD_1-AH4331-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AD_1-AH4331-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7151.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7151.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AE

NGS Name: 1982 AE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4333](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	115 N	20 W	444459.56	931605.29	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19889	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AE 1981

IN BURNSVILLE, IN TOP OF RAILING AT THE NORTHWEST CORNER OF PORTLAND AVENUE BRIDGE NUMBER 19889 OVER INTERSTATE HIGHWAY 35E, 34.5 FEET EAST OF PORTLAND AVENUE, 1.4 FEET EAST OF THE WEST EDGE OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

INACCESSIBLE DUE TO A FENCE OVER MARK. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1066.422	0.016	325.046	0.005	2/1	2000	00000359
NGVD29	1066.195	0.016	324.977	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.632 12B = -89.626 09 = -89.580 03 = -89.386

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AE-AH4333-3E-11JUL2023.jpg	E	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AE-AH4333-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AE-AH4333-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7152.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7152.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AF

NGS Name: 1982 AF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4336](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	19	115 N	20 W	444513.06	931543.76	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=YES	YES	19866	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AF 1981

IN BURNSVILLE, IN A BRIDGE RAILING AT THE SOUTHWEST CORNER OF 138TH STREET/MC ANDREWS ROAD EAST BRIDGE NUMBER 19866 OVER INTERSTATE HIGHWAY 35E, AT INTERSTATE HIGHWAY 35E MILEPOINT 94.3, 16.5 FEET SOUTH OF EASTBOUND 138TH STREET EAST, 32.7 FEET EAST OF SOUTHWEST CORNER OF A BRIDGE RAILING, 30.1 FEET EAST-NORTHEAST OF THE WEST CORNER OF A BRIDGE FENCE, 6.2 FEET NORTH OF A BRIDGE FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1066.474	0.016	325.062	0.005	2/1	2020	00000955
NGVD29	1066.251	0.016	324.994	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.655 12B = -89.652 09 = -89.606 03 = -89.409

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AF-AH4336-3S-21MAR2011.jpg	S	Mar 21, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AF-AH4336-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AF-AH4336-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7153.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7153.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AG

NGS Name: 1982 AG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4335](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	115 N	20 W	444513.12	931536.71	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19866	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AG 1981

AT BURNSVILLE, AT INTERSTATE HIGHWAY 35E MILEPOINT 94.3, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF 138TH STREET (MCANDREWS) BRIDGE NUMBER 19866 OVER INTERSTATE HIGHWAY 35E, 16.5 FEET SOUTH OF EASTBOUND 138TH STREET, 29.5 FEET WEST OF THE SOUTHEAST CORNER OF A BRIDGE RAILING, 15.5 FEET WEST-NORTHWEST OF THE EAST CORNER OF A BRIDGE FENCE, 6.5 FEET NORTH OF A BRIDGE FENCE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1055.621	0.016	321.754	0.005	2/1	2020	00000955
NGVD29	1055.395	0.016	321.685	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.675 12B = -89.668 09 = -89.623 03 = -89.426

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AG-AH4335-3SW-11JUL2023.jpg	SW	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AG-AH4335-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AG-AH4335-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7154.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7154.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AG 1

NGS Name: 1982 AG 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4334](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	19	115 N	20 W	444512.69	931538.29	2	3	1989	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AG 1 1989

IN BURNSVILLE, AT INTERSTATE HIGHWAY 35E MILEPOINT 94.3, NEAR 138TH STREET BRIDGE OVER INTERSTATE HIGHWAY 35E, 74.8 FEET SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 40.4 FEET WEST-SOUTHWEST OF THE WESTERN MOST PILLAR ON THE EAST SIDE OF A BRIDGE, 33.4 FEET EAST-NORTHEAST OF THE SOUTHERNMOST SIGNPOSTS (138TH STREET), 0.7 FOOT NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1028.459	0.016	313.475	0.005	2/1	2020	00000955
NGVD29	1028.230	0.016	313.405	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.672 12B = -89.665 09 = -89.619 03 = -89.422

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AG_1-AH4334-3S-04OCT2011.jpg	S	Oct 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AG_1-AH4334-2-04OCT2011.jpg		Oct 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AG_1-AH4334-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7155.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7155.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AH

NGS Name: 1982 AH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4338](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	115 N	20 W	444532.96	931454.32	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19813	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AH 1981

IN BURNSVILLE, IN THE TOP OF A RAILING AT THE SOUTHWEST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 EAST BRIDGE NUMBER 19813 OVER COUNTY ROAD 11, 20.0 FEET SOUTH OF INTERSTATE HIGHWAY 35 EAST, 1.0 FOOT EAST OF THE SOUTHWEST CORNER OF A RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1016.455	0.016	309.816	0.005	2/1	2000	00000359
NGVD29	1016.225	0.016	309.746	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.737 12B = -89.734 09 = -89.685 03 = -89.488

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AH-AH4338-3N-20JUL2023.jpg	N	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AH-AH4338-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AH-AH4338-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7156.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7156.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AJ

NGS Name: 1982 AJ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4337](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	115 N	20 W	444531.93	931454.20	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19814	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AJ 1981

IN BURNSVILLE, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19814 OVER COUNTY ROAD 11, 26.0 FEET SOUTH-SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST, 1.4 FEET NORTHEAST OF THE SOUTHEAST CORNER OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1016.317	0.016	309.774	0.005	2/1	2000	00000359
NGVD29	1016.087	0.016	309.704	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.737 12B = -89.737 09 = -89.688 03 = -89.488

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AJ-AH4337-3S-18JUL2023.jpg	S	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AJ-AH4337-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AJ-AH4337-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7157.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7157.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AK

NGS Name: 1982 AK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4340](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	17	115 N	20 W	444533.44	931451.24	2	3	1981	2023	GOOD	Horz=NO Vert=NO	YES	19814	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNHD

Description: (2011) **Stamping:** 1982 AK 1981

IN APPLE VALLEY, AT THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 11, IN A RAILING AT THE NORTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST BRIDGE NUMBER 19814 OVER COUNTY ROAD 11, 25.0 FEET SOUTH-SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST, 21.4 FEET WEST OF THE NORTH LEG OF THE APPLE VALLEY SIGN, 0.8 FOOT SOUTHWEST OF THE SOUTH NORTHERLY EDGE OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1017.514	0.016	310.139	0.005	2/1	2000	00000359
NGVD29	1017.285	0.016	310.069	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.744 12B = -89.741 09 = -89.691 03 = -89.495

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 45 33.43600	93 14 51.23946	517950.437	204771.621	157871.609	62414.515			C	1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AK-AH4340-3S-18JUL2023.jpg	S	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AK-AH4340-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AK-AH4340-1-27OCT2006.jpg		Oct 27, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7158.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7158.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AL

NGS Name: 1982 AL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4339](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>					
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>					
NE	20	115 N	20 W	444534.62	931451.09	2	3					
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>					
1981	2023	GOOD	Horz=NO Vert=NO	YES	19813	FLUSH	MARKER W/BAR MAGNET					

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AL 1981

IN APPLE VALLEY, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 EAST BRIDGE NUMBER 19813 OVER COUNTY ROAD 11, 18.5 FEET SOUTH OF INTERSTATE HIGHWAY 35 EAST, 1.2 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING OF A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1017.534	0.016	310.145	0.005	2/1	2000	00000359
NGVD29	1017.308	0.016	310.076	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.741 12B = -89.737 09 = -89.688 03 = -89.491

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AL-AH4339-3S-18JUL2023.jpg	S	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AL-AH4339-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AL-AH4339-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7159.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7159.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AM

NGS Name: 1982 AM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4341](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	115 N	20 W	444603.00	931413.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2014	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AM 1981

IN BURNSVILLE, 0.3 MILE NORTHEAST OF COUNTY ROAD 11, 1.1 MILES SOUTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND TRUNK HIGHWAY 77, 127.0 FEET NORTHWEST OF SOUTHBOUND INTERSTATE HIGHWAY 35 EAST AT STATION 262+10, 21.0 FEET NORTHEAST OF 12.0 INCH DIAMETER OAK TREE, 41.5 FEET EAST-SOUTHEAST OF A MANHOLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	979.191	0.016	298.458	0.005	2/1	2000	00000359
NGVD29	978.958	0.016	298.387	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.770 12B = -89.770 09 = -89.718 03 = -89.518

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7160.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7160.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AN

NGS Name: 1982 AN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4343](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	31	27 N	23 W	444638.90	931302.10	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19859	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AN 1981

IN EAGAN, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 77 BRIDGE NUMBER 19859 OVER INTERSTATE HIGHWAY 35 EAST, 120.0 FEET NORTH-NORTHWEST OF A LARGE STEEL OVERHEAD SIGNPOST, 31.0 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 77, 29.4 FEET NORTH OF THE SOUTH END OF THE EAST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1018.499	0.016	310.439	0.005	2/1	2000	00000359
NGVD29	1018.266	0.016	310.368	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.869 12B = -89.872 09 = -89.810 03 = -89.613

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AN-AH4343-3SE-10OCT2011.jpg	SE	Oct 10, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AN-AH4343-2-10OCT2011.jpg		Oct 10, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AN-AH4343-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7161.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7161.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AP

NGS Name: 1982 AP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4344](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	27 N	23 W	444639.65	931300.68	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19860	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AP 1981

IN EAGAN, IN THE TOP OF A RAILING ON NORTHBOUND TRUNK HIGHWAY 77 BRIDGE NUMBER 19860 OVER INTERSTATE HIGHWAY 35 EAST, 18.0 FEET EAST OF THE NORTHBOUND LOOP TO TRUNK HIGHWAY 77, 26.5 FEET NORTH OF THE SOUTH END OF THE EAST BRIDGE RAILING, 10.5 FEET SOUTH OF LIGHT STANDARD E 1J-AR52. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1016.842	0.016	309.934	0.005	2/1	2000	00000359
NGVD29	1016.609	0.016	309.863	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.872 12B = -89.875 09 = -89.813 03 = -89.616

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AP-AH4344-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AP-AH4344-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AP-AH4344-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7162.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7162.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AQ

NGS Name: 1982 AQ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4345](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	27 N	23 W	444645.04	931302.18	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES	19860	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** 1982 AQ 1981

IN EAGAN, IN THE TOP OF THE SOUTH RAILING ON NORTHBOUND TRUNK HIGHWAY 77 BRIDGE NUMBER 19860 OVER INTERSTATE HIGHWAY 35E, 28.4 FEET SOUTH OF THE NORTH END OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND TREE COVER, THIS SURVEY MARK HAS BEEN ABANDONED FOR MNDOT GEODETIC SURVEYS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1006.947	0.016	306.918	0.005	2/1	2000	00000359
NGVD29	1006.711	0.016	306.846	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.855 12B = -89.859 09 = -89.796 03 = -89.600

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AQ-AH4345-3S-04OCT2011.jpg	S	Oct 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AQ-AH4345-2-04OCT2011.jpg		Oct 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AQ-AH4345-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7163.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AQ 1

NGS Name: 1982 AQ 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4346](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	27 N	23 W	444644.08	931303.80	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19859	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AQ 1 1988

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 77 AND INTERSTATE HIGHWAY 35 EAST, IN THE TOP OF A RAILING AT THE NORTHWEST CORNER OF SOUTHBOUND TRUNK HIGHWAY 77 BRIDGE NUMBER 19859 OVER INTERSTATE HIGHWAY 35 EAST, 18.0 FEET WEST OF AN ENTRANCE RAMP TO SOUTHBOUND TRUNK HIGHWAY 77, 49.5 FEET SOUTH-SOUTHEAST OF LIGHT STANDARD E1L-AR65, 26.0 FEET SOUTH OF THE NORTHWEST CORNER OF THE WEST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1006.507	0.016	306.784	0.005	2/1	2000	00000359
NGVD29	1006.271	0.016	306.712	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.852 12B = -89.855 09 = -89.793 03 = -89.596

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AQ_1-AH4346-3SW-13JUL2023.jpg	SW	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AQ_1-AH4346-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AQ_1-AH4346-1-05OCT2011.jpg		Oct 5, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7164.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7164.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AR

NGS Name: 1982 AR

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4388](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	27 N	23 W	444649.02	931244.94	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=YES	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AR 1988

IN EAGAN, 0.2 MILE NORTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 77 AND INTERSTATE HIGHWAY 35E, AT INTERSTATE HIGHWAY 35E MILEPOINT 92.95, 14.4 FEET NORTH-NORTHWEST OF A RIGHT-OF-WAY FENCE, 157.0 FEET NORTH-NORTHEAST OF LIGHT STANDARD E1J-BB36, 15.0 FEET WEST OF A 15.0 INCH DIAMETER POPLAR TREE, 1.0 FOOT WEST OF A WITNESS POST. DESTROYED BY CONSTRUCTION OF NEW SOUND WALL.

Station Notes
DESTROYED BY CONSTRUCTION OF NEW SOUND WALL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	972.915	0.016	296.545	0.005	2/1	2020	00000955
NGVD29	972.682	0.016	296.474	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.892 12B = -89.895 09 = -89.829 03 = -89.636

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AR-AH4388-3W-18JUL2023.jpg	W	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AR-AH4388-2-10OCT2011.jpg		Oct 10, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AR-AH4388-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7165.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7165.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AS

NGS Name: 1982 AS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4358](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	27 N	23 W	444707.03	931221.35	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AS 1988

IN EAGAN, 0.7 MILE NORTHEAST OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 77, AT INTERSTATE HIGHWAY 35E MILEPOINT 93.35, 180.0 FEET SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 90.5 FEET SOUTHEAST OF A RIGHT-OF-WAY FENCE, 0.8 FOOT NORTHWEST OF A WITNESS POST. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	929.011	0.016	283.163	0.005	2/1	2020	00000955
NGVD29	928.774	0.016	283.091	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.911 12B = -89.915 09 = -89.849 03 = -89.655

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AS-AH4358-3SE-18JUL2023.jpg	SE	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AS-AH4358-2-10OCT2011.jpg		Oct 10, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AS-AH4358-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7166.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7166.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AU

NGS Name: 1982 AU

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4360](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	31	27 N	23 W	444723.84	931209.07	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES	19816	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 AU 1988

IN EAGAN, IN AN ABUTMENT AT THE SOUTHWEST CORNER OF COUNTY ROAD 32 (CLIFF ROAD) BRIDGE NUMBER 19816 OVER INTERSTATE HIGHWAY 35E, 33.0 FEET SOUTH OF EASTBOUND COUNTY ROAD 32, 54.5 FEET WEST-NORTHWEST OF THE SOUTHWEST CORNER OF THE SOUTH BRIDGE RAILING, 1.7 FEET EAST-NORTHEAST OF THE WEST END OF A FENCE POST ON A BRIDGE FENCE, 0.8 FOOT NORTH OF A BRIDGE FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	951.123	0.016	289.903	0.005	2/1	2020	00000955
NGVD29	950.884	0.016	289.830	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.905 12B = -89.908 09 = -89.842 03 = -89.652

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AU-AH4360-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AU-AH4360-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AU-AH4360-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7167.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7167.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AX

NGS Name: 1982 AX

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4361](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	29	27 N	23 W	444735.40	931150.48	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 14 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AX 1988

IN EAGAN, 0.2 MILE NORTH OF COUNTY ROAD 32 (CLIFF ROAD), IN THE NORTHEAST QUADRANT OF THE JUNCTION OF BLACKHAWK ROAD AND BEECHER DRIVE, 94.5 FEET EAST OF BLACKHAWK ROAD, 70.5 FEET NORTH OF BEECHER DRIVE, 67.6 FEET NORTHEAST OF A FIRE HYDRANT, 53.4 FEET EAST-SOUTHEAST OF A POWER POLE, 42.0 FEET NORTHWEST OF A STOP SIGN AND A WITNESS POST, 32.5 FEET EAST OF BEECHER PARK SIGN.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	945.307	0.016	288.130	0.005	2/1	2020	00000955
NGVD29	945.080	0.016	288.061	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.928 12B = -89.931 09 = -89.862 03 = -89.675

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AX-AH4361-3W-18JUL2023.jpg	W	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AX-AH4361-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AX-AH4361-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7168.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7168.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AY

NGS Name: 1982 AY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4362](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	29	27 N	23 W	444743.03	931153.92	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES	19882	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1982 AY 1989

IN EAGAN, 0.4 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 32 (CLIFF ROAD), IN THE NORTHWEST CORNER OF BLACKHAWK ROAD BRIDGE NUMBER 19882 OVER INTERSTATE HIGHWAY 35E, 31.0 FEET EAST OF BLACKHAWK ROAD, 20.0 FEET SOUTH OF THE NORTHWEST CORNER OF A BRIDGE, 19.5 FEET EAST OF THE WEST EDGE OF A BARRIER, 1.2 FEET SOUTH OF A BARRIER.

Station Notes

THE STAMPING WAS SCRAPED BY SNOWPLOWING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	941.294	0.016	286.907	0.005	2/1	2020	00000955
NGVD29	941.081	0.016	286.842	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.905 12B = -89.908 09 = -89.836 03 = -89.652

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AY-AH4362-3NE-18JUL2023.jpg	NE	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AY-AH4362-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AY-AH4362-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7169.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7169.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 AZ

NGS Name: 1982 AZ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4363](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	27 N	23 W	444806.38	931130.36	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 AZ 1988

IN EAGAN, 0.15 MILE SOUTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 30 (DIFFLEY ROAD), AT INTERSTATE HIGHWAY 35E MILEPOINT 94.7, 71.0 FEET SOUTH-SOUTHEAST OF AN OFF-RAMP FROM NORTHBOUND 35E TO COUNTY ROAD 30, 49.0 FEET SOUTH OF LIGHT STANDARD EIP-4, 1.0 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	920.500	0.016	280.569	0.005	2/1	2020	00000955
NGVD29	920.287	0.016	280.504	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.915 09 = -89.846 03 = -89.665

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AZ-AH4363-3E-18JUL2023.jpg	E	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AZ-AH4363-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_AZ-AH4363-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7170.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7170.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 B

NGS Name: 1982 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9209](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	19	115 N	20 W	444505.15	931550.59	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 B 2014

IN BURNSVILLE, 0.85 MILE NORTHEAST ALONG NORTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 42 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35E MILEPOINT 89.7, 67.0 FEET SOUTHEAST OF A NORTHBOUND INTERSTATE 35E FOG LINE, 0.2 MILE SOUTHWEST OF COUNTY ROAD 38 (138TH STREET BRIDGE), 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1028.190	0.016	313.393	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.659 12B = -89.652 09 = -89.606 03 = -89.409

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_B-DP9209-3SE-14JUL2014.jpg	SE	Jul 14, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_B-DP9209-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_B-DP9209-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101792.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101792.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BA

NGS Name: 1982 BA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4364](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	29	27 N	23 W	444815.54	931128.26	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19817	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 BA 1988

IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 94.8, IN THE TOP OF A RAILING AT THE SOUTHWEST CORNER OF COUNTY ROAD 30 (DIFFLEY ROAD) BRIDGE NUMBER 19817 OVER INTERSTATE HIGHWAY 35E, 23.0 FEET SOUTH OF EASTBOUND COUNTY ROAD 30, 43.1 FEET EAST-NORTHEAST OF THE WEST CORNER OF A BRIDGE FENCE, 10.6 FEET NORTH OF A BRIDGE FENCE, 21.1 FEET EAST OF THE SOUTHWEST CORNER OF THE SOUTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	952.455	0.016	290.309	0.005	2/1	2020	00000955
NGVD29	952.242	0.016	290.244	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.901 12B = -89.905 09 = -89.832 03 = -89.652

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BA-AH4364-3S-18JUL2023.jpg	S	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BA-AH4364-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BA-AH4364-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7171.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7171.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BB

NGS Name: 1982 BB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4365](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	21	27 N	23 W	444826.76	931114.68	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BB 1988

IN EAGAN, 0.3 MILE NORTHEAST OF THE JUNCTION OF COUNTY ROAD 30 (DIFFLEY ROAD) AND INTERSTATE HIGHWAY 35E, ON THE DIFFLEY ENTRANCE TO NORTHBOUND INTERSTATE HIGHWAY 35E, AT INTERSTATE HIGHWAY 35E MILEPOINT 95.1, 73.5 FEET EAST-SOUTHEAST OF THE EAST EDGE OF A RAMP FROM COUNTY ROAD 30 TO NORTHBOUND INTERSTATE HIGHWAY 35E, 1.0 FOOT WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	916.019	0.016	279.203	0.005	2/1	2020	00000955
NGVD29	915.809	0.016	279.139	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.915 09 = -89.842 03 = -89.665

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BB-AH4365-3E-18JUL2023.jpg	E	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BB-AH4365-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BB-AH4365-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7172.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7172.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BC

NGS Name: 1982 BC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4366](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	21	27 N	23 W	444839.01	931101.26	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BC 1989

IN EAGAN, 0.5 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 30 (DIFFLEY ROAD), NEAR DEERWOOD DRIVE BRIDGE OVER INTERSTATE HIGHWAY 35E, AT INTERSTATE HIGHWAY 35E MILEPOINT 95.1, 69.6 FEET SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 50.0 FEET SOUTH-SOUTHWEST OF THE EAST ABUTMENT OF A BRIDGE, 0.6 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	902.541	0.016	275.095	0.005	2/1	2020	00000955
NGVD29	902.331	0.016	275.031	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.928 12B = -89.928 09 = -89.849 03 = -89.675

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BC-AH4366-3E-18JUL2023.jpg	E	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BC-AH4366-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BC-AH4366-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7173.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7173.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BD

NGS Name: 1982 BD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4367](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	21	27 N	23 W	444839.16	931100.54	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19883	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** 1982 BD 1989

IN EAGAN, 0.5 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 30 (DIFFLEY ROAD), IN A CONCRETE WALKWAY ON THE SOUTH SIDE OF DEERWOOD DRIVE BRIDGE NUMBER 19883 OVER INTERSTATE HIGHWAY 35E, AT INTERSTATE HIGHWAY 35E MILEPOINT 88.7, 29.5 FEET SOUTH OF DEERWOOD DRIVE, 47.0 FEET WEST-NORTHWEST OF THE SOUTHEAST CORNER OF A BRIDGE, 0.7 FOOT NORTHEAST OF THE SOUTH FACE OF A BRIDGE RAILING. THE TOP OF THE DISK HAS BEEN SCRAPED OFF.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	933.673	0.016	284.584	0.005	2/1	2020	00000955
NGVD29	933.473	0.016	284.523	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.928 12B = -89.928 09 = -89.852 03 = -89.675

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BD-AH4367-3S-18JUL2023.jpg	S	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BD-AH4367-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BD-AH4367-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7174.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7174.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BE

NGS Name: 1982 BE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4372](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	27 N	23 W	444952.00	931000.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	YES	19818	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BE 1988

IN EAGAN, AT THE JUNCTION OF PILOT KNOB ROAD (COUNTY ROAD 31) AND INTERSTATE HIGHWAY 35 EAST, IN THE SOUTHEAST CORNER OF AN ABUTMENT ON COUNTY ROAD 31 BRIDGE NUMBER 19818 OVER INTERSTATE HIGHWAY 35 EAST, 33.0 FEET EAST OF COUNTY ROAD 31, 45.5 FEET NORTH OF THE SOUTH STEEL POST IN A BRIDGE FENCE, 9.5 FEET EAST OF THE EAST FACE OF A BRIDGE RAILING, 0.8 FOOT WEST OF A BRIDGE FENCE.

Station Notes

PHOTO OF WHERE THE DISK WAS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	908.026	0.016	276.767	0.005	2/1	2000	00000359
NGVD29	907.830	0.016	276.707	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.931 12B = -89.934 09 = -89.859 03 = -89.688

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BE-AH4372-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7175.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7175.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BF

NGS Name: 1982 BF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4368](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	21	27 N	23 W	444846.69	931048.18	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 38 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BF 1989

IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 95.65, 0.8 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 30 (DIFFLEY ROAD), 1200.0 FEET NORTH OF DEERWOOD DRIVE, 43.5 FEET NORTHWEST OF THE WEST EDGE OF SOUTHBOUND INTERSTATE HIGHWAY 35E, 94.0 FEET EAST OF A STEEL POST, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.099	0.016	269.169	0.005	2/1	2020	00000955
NGVD29	882.892	0.016	269.106	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.944 12B = -89.944 09 = -89.869 03 = -89.691

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BF-AH4368-3NW-18JUL2023.jpg	NW	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BF-AH4368-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BF-AH4368-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7176.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7176.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BG

NGS Name: 1982 BG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4369](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	21	27 N	23 W	444906.00	931025.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2007	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1989) **Stamping:** 1982 BG 1989

AT EAGAN, 1.25 MILES NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND COUNTY ROAD 30 (DIFFLEY ROAD), AT INTERSTATE HIGHWAY 35 EAST MILEPOINT 96.2, 77.5 FEET EAST-SOUTHEAST OF THE EAST EDGE OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST, 4.4 FEET SOUTHEAST OF A RIGHT-OF-WAY FENCE, 1.0 FOOT NORTH-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	851.025	0.016	259.393	0.005	2/1	2000	00000359
NGVD29	850.825	0.016	259.332	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.970 12B = -89.974 09 = -89.895 03 = -89.721

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BG-AH4369-3NE-21NOV2006.jpg	NE	Nov 21, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BG-AH4369-2-21NOV2006.jpg		Nov 21, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BG-AH4369-1-21NOV2006.jpg		Nov 21, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7177.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7177.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BG RESET

NGS Name: 1982 BG RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	27 N	23 W	444907.10	931019.91		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=NO Vert=NO	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 1982 BG RESET 2011

IN EAGAN, 1.25 MILES NORTH ALONG TRUNK HIGHWAY 35 EAST FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND COUNTY ROAD 30 (DIFFLEY ROAD), AT INTERSTATE HIGHWAY 35 EAST MILEPOINT 96.2, 77.5 FEET EAST-SOUTHEAST OF THE EAST EDGE OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST, 4.4 FEET EAST OF A RIGHT-OF-WAY FENCE, 1.0 FOOT NORTH-NORTHWEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.970 12B = -89.974 09 = -89.895 03 = -89.721

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BG_RESET-3E-26SEP2011.jpg	E	Sep 26, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BG_RESET-2-26SEP2011.jpg		Sep 26, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BG_RESET-1-26SEP2011.jpg		Sep 26, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94561.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94561.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BH

NGS Name: 1982 BH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4370](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	16	27 N	23 W	444920.09	931019.89	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	POOR	Horz=YES Vert=YES	YES		PROJECTS 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BH 1988

IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 96.45, 0.65 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 31 (PILOT KNOB ROAD), 223.0 FEET SOUTH-SOUTHWEST OF A POWER POLE WITH TRANSFORMER BOX, 102.0 FEET EAST-SOUTHEAST OF THE EAST EDGE OF CONCRETE ON NORTHBOUND INTERSTATE HIGHWAY 35E, 17.5 FEET WEST-NORTHWEST OF A RIGHT-OF-WAY FENCE, 1.2 FEET WEST-NORTHWEST OF A WITNESS POST. HIT BY MOWER, SHOULD BE DESTROYED, AND RESET.

Station Notes
HIT BY MOWER, SHOULD BE DESTROYED, AND RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	866.878	0.016	264.225	0.005	2/1	2020	00000955
NGVD29	866.678	0.016	264.164	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.947 12B = -89.947 09 = -89.872 03 = -89.698

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 49 20.09478	93 10 19.88937	537490.184	227753.127	163827.336	69419.292	236.819					2015	GPS3085	
NAD83 (1996)	44 49 20.09464	93 10 19.88965	537490.164	227753.113	163827.330	69419.288	236.885	C				2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BH-AH4370-3NE-21NOV2006.jpg	NE	Nov 21, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BH-AH4370-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BH-AH4370-1-21NOV2006.jpg		Nov 21, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7178.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7178.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BI

NGS Name: 1982 BI

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4371](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	16	27 N	23 W	444937.55	931009.61	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BI 1989

IN EAGAN, 0.2 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND PILOT KNOB ROAD (COUNTY ROAD 31), THEN 0.1 MILE WEST ON DUCKWOOD DRIVE, AT THE WEST END OF A PARKING LOT AT THE EAGAN MEDICAL CENTER, 5.4 FEET SOUTHEAST OF A RIGHT-OF-WAY FENCE, 95.0 FEET NORTH OF A LIGHT STANDARD, 0.9 FOOT NORTHWEST OF A WITNESS POST.

Station Notes

HAVE TO CLIMB A CHAIN LINK FENCE IN ORDER TO ACCESS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	898.696	0.016	273.923	0.005	2/1	2020	00000955
NGVD29	898.496	0.016	273.862	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.937 12B = -89.937 09 = -89.862 03 = -89.691

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BI-AH4371-3NW-21NOV2006.jpg	NW	Nov 21, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BI-AH4371-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BI-AH4371-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7179.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7179.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BJ

NGS Name: 1982 BJ

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	15	27 N	23 W	445000.03	930952.55	2	

NGS ACRN: AH4374	Get Map
NGS Quad / Sta Num : 44093113/	
USGS Quad: ST PAUL SW	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19864	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BJ 1988

IN EAGAN, IN THE TOP OF A RAILING ON YANKEE DOODLE ROAD (COUNTY ROAD 28) BRIDGE NUMBER 19864 OVER INTERSTATE HIGHWAY 35 EAST, 30.5 FEET SOUTH OF EASTBOUND COUNTY ROAD 28, 29.1 FEET EAST OF THE SOUTHWEST CORNER OF THE SOUTH BRIDGE RAILING, 32.1 FEET EAST OF THE END STEEL FENCE POST IN A BRIDGE FENCE. STATION 1982 BJ IS VIRTUALLY UNUSABLE AS THE FENCE COVERS 90 PERCENT OF THE DISK. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	913.624	0.016	278.473	0.005	2/1	2000	00000359
NGVD29	913.430	0.016	278.414	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.934 12B = -89.937 09 = -89.859 03 = -89.691

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BJ-AH4374-3S-01AUG2023.jpg	S	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BJ-AH4374-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BJ-AH4374-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7180.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7180.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BK

NGS Name: 1982 BK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4376](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	15	27 N	23 W	444959.78	930947.77	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19864	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BK 1988

IN EAGAN, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF YANKEE DOODLE ROAD (COUNTY ROAD 28) BRIDGE NUMBER 19864 OVER INTERSTATE HIGHWAY 35 EAST, 30.4 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING, 59.2 FEET WEST-NORTHWEST OF LIGHT STANDARD EIV14. STATION 1982 BK IS VIRTUALLY UNUSABLE AS THE FENCE COVERS 90 PERCENT OF THE DISK. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE DISK IS PARTIALLY COVERED BY A FENCE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	910.740	0.016	277.594	0.005	2/1	2000	00000359
NGVD29	910.546	0.016	277.535	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.947 12B = -89.951 09 = -89.872 03 = -89.701

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BK-AH4376-3S-01AUG2023.jpg	S	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BK-AH4376-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BK-AH4376-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7181.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7181.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BL

NGS Name: 1982 BL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4373](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	15	27 N	23 W	444951.21	931001.49	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES	19818	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** 1982 BL 1988

IN EAGAN, IN THE NORTHEAST ABUTMENT ON PILOT KNOB ROAD (COUNTY ROAD 31) BRIDGE NUMBER 19818 OVER INTERSTATE HIGHWAY 35E, 33.0 FEET EAST OF COUNTY ROAD 31, 10.0 FEET EAST OF THE EAST FACE OF A BRIDGE RAILING, 88.9 FEET SOUTH-SOUTHWEST OF A LIGHT STANDARD, 2.1 FEET NORTH OF A NORTH END STEEL FENCE POST IN A BRIDGE FENCE, 1.0 FOOT WEST OF THE WEST FACE OF A CONCRETE RETAINING WALL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	913.410	0.016	278.408	0.005	2/1	2020	00000955
NGVD29	913.213	0.016	278.348	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.931 12B = -89.934 09 = -89.855 03 = -89.688

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BL-AH4373-3S-01AUG2023.jpg	S	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BL-AH4373-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BL-AH4373-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7182.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7182.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BN

NGS Name: 1982 BN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5061](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	10	27 N	23 W	445024.10	930930.35	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (1997) **Stamping:** 1982 BN 1988

IN EAGAN, 0.6 MILE NORTH OF THE JUNCTION OF COUNTY ROAD 28 (YANKEE DOODLE ROAD) AND INTERSTATE HIGHWAY 35 EAST, 57.5 FEET EAST-SOUTHEAST OF THE EAST EDGE OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST, AT INTERSTATE HIGHWAY 35 EAST MILEPOINT 97.85, 0.8 FOOT WEST-NORTHWEST OF A WITNESS POST, DISK AND 2.0 FEET OF ROD WERE FOUND LYING IN A DITCH. RETURNED TO THE GEODETIC UNIT 10/30/97.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	888.322	0.016	270.761	0.005	2/1	2000	00000359
NGVD29	888.131	0.016	270.703	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.944 12B = -89.944 09 = -89.869 03 = -89.701

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>		<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44	50 24.10447	93	09 30.35490	541048.085	234242.667	164911.786	71397.308	243.369		2012	GPS2800
NAD83 (2007)	44	50 24.10430	93	09 30.35561	541048.034	234242.650	164911.771	71397.303	243.395		2007	GPS2300
NAD83 (1996)	44	50 24.10406	93	09 30.35506	541048.074	234242.626	164911.783	71397.295	243.442	C	1997	GPS805-
NAD83 (1986)	44	50 24.09645	93	09 30.35050	541048.403	234241.858	164911.883	71397.061		C	1988	C019

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7183.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7183.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BO

NGS Name: 1982 BO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4378](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	10	27 N	23 W	445052.05	930908.74	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES	19836	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 BO 1988

IN EAGAN, IN THE SOUTHEAST ABUTMENT ON LONE OAK ROAD (COUNTY ROAD 26) BRIDGE NUMBER 19836 OVER INTERSTATE HIGHWAY 35E, 29.5 FEET SOUTH OF COUNTY ROAD 26, 11.6 FEET EAST-SOUTHEAST OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING, 0.7 FOOT NORTHWEST OF THE END FENCE POST IN A BRIDGE FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	917.344	0.016	279.607	0.005	2/1	2020	00000955
NGVD29	917.157	0.016	279.550	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.944 12B = -89.947 09 = -89.869 03 = -89.701

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BO-AH4378-3SE-03AUG2023.jpg	SE	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BO-AH4378-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BO-AH4378-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7184.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7184.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BP

NGS Name: 1982 BP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4377](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	10	27 N	23 W	445052.06	930914.50	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES	19836	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 BP 1988

IN EAGAN, IN AN ABUTMENT AT SOUTHWEST CORNER OF LONE OAK ROAD (COUNTY ROAD 26) BRIDGE NUMBER 19836 OVER INTERSTATE HIGHWAY 35E, 28.5 FEET SOUTH OF EASTBOUND LONE OAK ROAD, 0.7 FOOT EAST-NORTHEAST OF THE WEST END OF A BRIDGE RAILING FENCE, 19.0 FEET WEST-SOUTHWEST OF THE CORNER OF THE SOUTH BRIDGE RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.795	0.016	280.354	0.005	2/1	2020	00000955
NGVD29	919.604	0.016	280.296	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.931 12B = -89.934 09 = -89.855 03 = -89.688

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BP-AH4377-3S-03AUG2023.jpg	S	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BP-AH4377-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BP-AH4377-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7185.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7185.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BQ

NGS Name: 1982 BQ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4381](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	23 W	445152.34	930839.49	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19899	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BQ 1988

IN MENDOTA HEIGHTS, NEAR THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35 EAST, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF WESTBOUND INTERSTATE HIGHWAY 494 CONNECTOR TO SOUTHBOUND INTERSTATE HIGHWAY 35 EAST BRIDGE NUMBER 19899 OVER INTERSTATE HIGHWAY 35 EAST, 19.5 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	885.294	0.016	269.838	0.005	2/1	2000	00000359
NGVD29	885.113	0.016	269.783	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.911 12B = -89.918 09 = -89.839 03 = -89.675

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BQ-AH4381-3S-03OCT2011.jpg	S	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BQ-AH4381-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BQ-AH4381-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7186.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7186.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BR

NGS Name: 1982 BR

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4382](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	23 W	445155.63	930836.88	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19861	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BR 1989

IN MENDOTA HEIGHTS, 0.2 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35 EAST, IN THE TOP OF THE RAILING AT THE SOUTHEAST CORNER OF MENDOTA ROAD BRIDGE NUMBER 19861 OVER INTERSTATE HIGHWAY 35 EAST, 29.5 FEET SOUTH OF MENDOTA ROAD, 28.1 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	889.762	0.016	271.200	0.005	2/1	2000	00000359
NGVD29	889.585	0.016	271.146	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.918 09 = -89.842 03 = -89.675

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BR-AH4382-3SE-02AUG2023.jpg	SE	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BR-AH4382-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BR-AH4382-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7187.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7187.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BS

NGS Name: 1982 BS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4383](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	23 W	445155.63	930846.67	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19861	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BS 1989

IN MENDOTA HEIGHTS, 0.2 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35 EAST, IN THE TOP OF THE RAILING AT THE SOUTHWEST CORNER OF MENDOTA ROAD BRIDGE NUMBER 19861 OVER INTERSTATE HIGHWAY 35 EAST, 49.0 FEET SOUTH OF MENDOTA ROAD, 51.0 FEET EAST OF THE SOUTHWEST CORNER OF THE SOUTH RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	900.051	0.016	274.336	0.005	2/1	2000	00000359
NGVD29	899.870	0.016	274.281	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.892 12B = -89.898 09 = -89.819 03 = -89.655

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BS-AH4383-3SE-02AUG2023.jpg	SE	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BS-AH4383-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BS-AH4383-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7188.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7188.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BT

NGS Name: 1982 BT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4384](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	23 W	445238.80	930829.96	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BT 1989

IN MENDOTA HEIGHTS, 0.45 MILE SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 110, AT INTERSTATE HIGHWAY 35E MILEPOINT 100.6, 83.5 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 1.4 FEET SOUTH-SOUTHWEST OF THE SOUTH CORNER OF THE NOISE BARRIER WALL, 1.7 FEET SOUTH-SOUTHWEST OF A STEEL RIGHT-OF-WAY FENCE POST, 1.6 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	905.553	0.016	276.013	0.005	2/1	2020	00000955
NGVD29	905.379	0.016	275.960	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.869 12B = -89.869 09 = -89.800 03 = -89.636

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BT-AH4384-3E-03AUG2023.jpg	E	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BT-AH4384-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BT-AH4384-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7189.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7189.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BU

NGS Name: 1982 BU

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4385](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	23 W	445300.90	930820.83	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	9538	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BU 1988

IN MENDOTA HEIGHTS, IN THE SOUTHWEST CORNER OF A BRIDGE ABUTMENT ON TRUNK HIGHWAY 62 BRIDGE NUMBER 9538 OVER INTERSTATE HIGHWAY 35E, 38.0 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 62, 29.2 FEET EAST-NORTHEAST OF LIGHT STANDARD E3R 15, 1.0 FOOT SOUTH OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	915.362	0.016	279.003	0.005	2/1	2020	00000955
NGVD29	915.192	0.016	278.951	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.859 12B = -89.862 09 = -89.793 03 = -89.626

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BU-AH4385-3SW-02AUG2023.jpg	SW	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BU-AH4385-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BU-AH4385-1-12OCT2011.jpg		Oct 12, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7190.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7190.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BV

NGS Name: 1982 BV

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4389](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>			
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	35	28 N	23 W	445229.61	930833.78	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES	19822	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1982 BV 1989

IN MENDOTA HEIGHTS, IN A BRIDGE WALKWAY AT THE SOUTHEAST CORNER OF WAGON WHEEL TRAIL BRIDGE NUMBER 19822 OVER INTERSTATE HIGHWAY 35E, 0.8 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35E, 26.0 FEET SOUTH OF WAGON WHEEL TRAIL, 27.4 FEET WEST OF THE SOUTHEAST CORNER OF A BRIDGE, 2.0 FEET NORTH OF A FACE OF THE SOUTH BRIDGE RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	910.103	0.016	277.400	0.005	2/1	2020	00000955
NGVD29	909.946	0.016	277.352	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.872 12B = -89.875 09 = -89.803 03 = -89.639

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BV-AH4389-3S-03AUG2023.jpg	S	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BV-AH4389-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BV-AH4389-1-12OCT2011.jpg		Oct 12, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7191.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7191.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BY

NGS Name: 1982 BY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4386](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	26	28 N	23 W	445326.23	930752.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19851	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 BY 1988

IN MENDOTA HEIGHTS, 0.6 MILE NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 110, IN AN ABUTMENT AT THE SOUTHEAST CORNER OF MARIE AVENUE BRIDGE NUMBER 19851 OVER INTERSTATE HIGHWAY 35E, 23.5 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35, 0.5 FOOT EAST OF A BRIDGE RAIL, 0.9 FOOT SOUTH OF A STEEL FENCE POST. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	886.796	0.016	270.296	0.005	2/1	2020	00000955
NGVD29	886.645	0.016	270.250	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.888 12B = -89.888 09 = -89.829 03 = -89.655

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BY-AH4386-3S-03AUG2023.jpg	S	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BY-AH4386-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BY-AH4386-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7192.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7192.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 BZ

NGS Name: 1982 BZ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9203](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	27 N	23 W	444939.28	931015.30	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=NO Vert=YES	YES	19810	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2014) **Stamping:** 1982 BZ 2011

IN EAGAN, IN A BRIDGE RAILING IN THE SOUTHWEST CORNER OF DUCKWOOD DRIVE BRIDGE NUMBER 19810 OVER INTERSTATE HIGHWAY 35E, 0.2 MILE SOUTH-SOUTHEAST ALONG PILOT KNOB ROAD FROM THE JUNCTION OF PILOT KNOB ROAD/COUNTY ROAD 31 AND INTERSTATE HIGHWAY 35E IN EAGAN, THEN 0.1 MILE WEST ALONG DUCKWOOD DRIVE, 0.03 MILE EAST-SOUTHEAST OF FEDERAL DRIVE, 11.2 FEET SOUTH-SOUTHWEST OF THE BACK OF A CURB, 10.0 FEET EAST-SOUTHEAST OF SOUTHWEST END OF A METAL GUARD RAIL.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	904.765	0.016	275.773	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.921 12B = -89.921 09 = -89.846 03 = -89.675

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BZ-DP9203-3SE-01AUG2023.jpg	SE	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BZ-DP9203-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_BZ-DP9203-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101761.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101761.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 C

NGS Name: 1982 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7389](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	115 N	20 W	444551.41	931421.15	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 C 2014

IN APPLE VALLEY, 0.55 MILE NORTHEAST ALONG NORTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 11 IN APPLE VALLEY, AT INTERSTATE HIGHWAY 35E MILEPOINT 91.15, 32.0 FEET SOUTHEAST OF A NORTHBOUND INTERSTATE HIGHWAY 35E FOG LINE, 40.6 FEET SOUTH-SOUTHEAST OF THE NORTH INTERSTATE HIGHWAY 35E SIGN, 1.5 FEET NORTHWEST OF A WITNESS POST. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Pair: 1982 D - DAKOTA, MN

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	990.766	0.016	301.986	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.777 12B = -89.773 09 = -89.724 03 = -89.527

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>			<u>Reference</u>	
NAD83 (2011)	44 45 51.41472	93 14 21.14591	520120.241	206594.439	158532.967	62970.111	274.617			2015	GPS3085
NAD83 (1996)	44 45 51.41454	93 14 21.14608	520120.229	206594.421	158532.963	62970.105	274.684	C		2015	HDOTA

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_C-DP7389-3W-18JUL2023.jpg	W	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_C-DP7389-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_C-DP7389-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101793.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101793.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 CA

NGS Name: 1982 CA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7390](#) [Get Map](#)
NGS Quad / Sta Num : 44093113/
USGS Quad: ST PAUL SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	10	27 N	23 W	445037.93	930920.32	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 CA 2014

IN EAGAN, 1.15 MILES NORTHEAST ALONG NORTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 31 (PILOT KNOB ROAD) IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 98.15, 38.8 FEET EAST-SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 266.6 FEET SOUTH-SOUTHWEST OF AN EXIT 98 COUNTY ROAD 26 (LONE OAK ROAD) SIGN, 64.9 FEET WEST-NORTHWEST OF A RIGHT-OF-WAY FENCE, 1.5 FEET WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	893.712	0.016	272.404	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.941 12B = -89.944 09 = -89.869 03 = -89.698

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 50 37.93311	93 09 20.31878	541768.508	235644.653	165131.372	71824.634	244.983	2015	GPS3085			
NAD83 (1996)	44 50 37.93297	93 09 20.31905	541768.489	235644.639	165131.366	71824.630	245.049	2015	HDOTA	C		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CA-DP7390-3SE-03AUG2023.jpg	SE	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CA-DP7390-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CA-DP7390-1-16JUL2014.jpg		Jul 16, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101794.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101794.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 CB

NGS Name: 1982 CB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9198](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	23 W	445236.73	930830.73	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 CB 2014

IN MENDOTA HEIGHTS, 1.0 MILE NORTH ALONG NORTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND INTERSTATE HIGHWAY 494 IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 35E MILEPOINT 100.45, 74.8 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 650.0 FEET SOUTH OF TRUNK HIGHWAY 110 AND TRUNK HIGHWAY 13 AND SHEPARD ROAD OVERHEAD SIGN, 81.4 FEET NORTH OF THE CENTER OF OVERHEAD POWER LINES, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	905.326	0.016	275.944	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.869 12B = -89.872 09 = -89.800 03 = -89.636

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CB-DP9198-3E-03AUG2023.jpg	E	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CB-DP9198-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CB-DP9198-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101789.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101789.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 CC

NGS Name: 1982 CC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7391](#) [Get Map](#)
NGS Quad / Sta Num : 44093114/
USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	23	28 N	23 W	445336.43	930752.38	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 CC 2014

IN MENDOTA HEIGHTS, 0.55 MILE SOUTHEAST ALONG SOUTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 13 IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 35E MILEPOINT 101.9, 22.2 FEET WEST OF A SOUTHBOUND INTERSTATE HIGHWAY 35E FOG LINE, 114.8 FEET NORTH OF A POLE WITH A TRAFFIC CAMERA MOUNTED ON IT. NO WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	853.633	0.016	260.188	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.878 12B = -89.878 09 = -89.816 03 = -89.642

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 36.42779	93 07 52.38407	548063.399	253736.215	167050.058	77338.953	232.804			2015	GPS3085	
NAD83 (1996)	44 53 36.42759	93 07 52.38433	548063.381	253736.194	167050.053	77338.947	232.877	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CC-DP7391-3W-03AUG2023.jpg	W	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CC-DP7391-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_CC-DP7391-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101790.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101790.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 D

NGS Name: 1982 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7392](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	115 N	20 W	444618.38	931341.53	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 D 2014

IN APPLE VALLEY, 0.7 MILE SOUTHWEST ALONG SOUTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 77 IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 91.9, 32.4 FEET NORTHWEST OF THE SOUTHBOUND INTERSTATE HIGHWAY 35E FOG LINE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: 1982 C - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	967.413	0.016	294.868	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.813 12B = -89.816 09 = -89.760 03 = -89.560

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 18.38110	93 13 41.53113	522975.610	209328.476	159403.285	63803.447	267.484	C	2015	GPS3085		
NAD83 (1996)	44 46 18.38090	93 13 41.53130	522975.598	209328.455	159403.281	63803.441	267.551	C	2015	HDOTA		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_D-DP7392-3NW-20JUL2023.jpg	NW	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_D-DP7392-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_D-DP7392-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101795.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101795.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 E

NGS Name: 1982 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9208](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	115 N	20 W	444528.93	931507.70	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 E 2014

IN BURNSVILLE, 0.2 MILE SOUTHWEST ALONG AN ON-RAMP FROM COUNTY ROAD 11 TO SOUTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 11 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35E MILEPOINT 90.4, 120.0 FEET NORTHWEST OF SOUTHBOUND INTERSTATE 35E, 93.0 FEET NORTHWEST OF AN ON-RAMP FROM COUNTY ROAD 11 TO SOUTHBOUND INTERSTATE HIGHWAY 35E, 48.2 FEET SOUTH OF A MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) ELECTRICAL BOX, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	995.943	0.016	303.564	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.711 12B = -89.708 09 = -89.659 03 = -89.462

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_E-DP9208-3NW-18JUL2023.jpg	NW	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_E-DP9208-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_E-DP9208-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101796.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101796.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 F

NGS Name: 1982 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7393](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	27 N	23 W	444652.13	931252.92	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 F 2014

IN EAGAN, 0.8 MILE SOUTHWEST ALONG SOUTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 32 (CLIFF ROAD) IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 92.8, 73.4 FEET NORTH-NORTHWEST OF AN ON-RAMP TO NORTHBOUND TRUNK HIGHWAY 77 FROM SOUTHBOUND INTERSTATE HIGHWAY 35E, 300.0 FEET NORTHWEST OF SOUTHBOUND INTERSTATE HIGHWAY 35E, 150.0 FEET NORTHEAST OF LIGHT POLE NUMBER EIJAR48, 1.5 FEET SOUTH-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	961.563	0.016	293.085	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.862 12B = -89.865 09 = -89.803 03 = -89.606

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 52.12637	93 12 52.92429	526478.020	212750.264	160470.821	64846.410	265.714			2018	GPS3290	
NAD83 (1996)	44 46 52.12624	93 12 52.92470	526477.990	212750.251	160470.812	64846.406	265.785	C		2018	HTH77	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_F-DP7393-3NW-16JUL2014.jpg	NW	Jul 16, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_F-DP7393-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_F-DP7393-1-16JUL2014.jpg		Jul 16, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101797.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101797.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 G

NGS Name: 1982 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7394](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	27 N	23 W	444732.86	931157.46	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 54 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 G 2014

IN EAGAN, 0.15 MILE NORTH ALONG AN ON-RAMP FROM COUNTY ROAD 32 (CLIFF ROAD) TO NORTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 32 (CLIFF ROAD) IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 93.9, 40.5 FEET EAST-SOUTHEAST OF A NORTHBOUND INTERSTATE 35E FOG LINE, 28.2 FEET WEST-NORTHWEST OF AN ON-RAMP FROM COUNTY ROAD 32 TO A NORTHBOUND INTERSTATE 35E FOG LINE, 1.5 FEET WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	926.566	0.016	282.418	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.918 09 = -89.849 03 = -89.662

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 32.86145	93 11 57.46004	530472.835	216881.269	161688.444	66105.543	255.019				2015	GPS3085
NAD83 (1996)	44 47 32.86129	93 11 57.46029	530472.817	216881.253	161688.438	66105.538	255.087	C			2015	HDOTA

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_G-DP7394-3SE-18JUL2023.jpg	SE	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_G-DP7394-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_G-DP7394-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101798.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 H

NGS Name: 1982 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9204](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	29	27 N	23 W	444803.01	931138.56	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1982 H 2014

IN EAGAN, 0.3 MILE SOUTH ALONG AN ON-RAMP FROM COUNTY ROAD 30 (DIFFLEY ROAD) TO SOUTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF COUNTY ROAD 30 AND INTERSTATE HIGHWAY 35E IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 94.45, 70.9 FEET WEST OF AN ON-RAMP FROM COUNTY ROAD 30 TO A SOUTHBOUND INTERSTATE HIGHWAY 35E FOG LINE, 133.0 FEET SOUTHWEST OF LIGHT POLE NUMBER EIP12, 93.4 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35E, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.412	0.016	280.847	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.901 12B = -89.901 09 = -89.832 03 = -89.649

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_H-DP9204-3W-18JUL2023.jpg	W	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_H-DP9204-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_H-DP9204-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101799.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101799.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 J

NGS Name: 1982 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1292](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	28 N	23 W	445301.00	930818.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2006	DESTROYED	Horz=NO Vert=NO	NO	9538		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010)

Stamping: 1982 J 1967

IN MENDOTA HEIGHTS, AT THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND TRUNK HIGHWAY 110, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 110 BRIDGE NUMBER 9538 OVER INTERSTATE HIGHWAY 35 EAST.

Station Notes

TRUNK HIGHWAY 110 HAS BEEN WIDENED, ABUTMENTS REBUILT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	912.190	0.016	278.036	0.005	2/0	1991	00000025
NGVD29	912.006	0.016	277.980	0.005	2	1972	L122 MINN

Geoid Separations(ft): GEOID18 = -89.865 12B = -89.865 09 = -89.800 03 = -89.632

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7193.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7193.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 K

NGS Name: 1982 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1437](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	28 N	23 W	445327.00	930752.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	19851		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1982 K 1970

IN MENDOTA HEIGHTS, 1.5 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 13, 0.6 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 110 AND INTERSTATE HIGHWAY 35 EAST, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 35 EAST BRIDGE NUMBER 19851 OVER MARIE AVENUE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	886.822	0.016	270.304	0.005	2/0	1991	00000025
NGVD29	886.658	0.016	270.254	0.005	2	1972	L124 MINN

Geoid Separations(ft): GEOID18 = -89.888 12B = -89.888 09 = -89.829 03 = -89.655

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7194.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7194.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 L

NGS Name: 1982 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1436](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	28 N	23 W	445405.00	930809.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2006	DESTROYED	Horz=NO Vert=NO	NO	9535	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 L 1967

IN MENDOTA HEIGHTS, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 13 BRIDGE NUMBER 9535 OVER INTERSTATE HIGHWAY 35E, 20.0 FEET SOUTH OF TRUNK HIGHWAY 13, 1.0 FOOT SOUTHWEST OF THE SOUTHEAST CORNER OF A BRIDGE.

Station Notes
NEW BRIDGE IN PLACE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	804.693	0.016	245.271	0.005	2/0	2000	00000359
NGVD29	804.533	0.016	245.222	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.823 12B = -89.819 09 = -89.750 03 = -89.580

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7195.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7195.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 M

NGS Name: 1982 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1435](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	28 N	23 W	445413.00	930815.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2006	DESTROYED	Horz=NO Vert=NO	NO	9330	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 M 1967

IN MENDOTA HEIGHTS, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 35 EAST BRIDGE NUMBER 9330 OVER THE MISSISSIPPI RIVER, 19.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST, 30.8 FEET SOUTH-SOUTHWEST OF A LIGHT STANDARD, 1.1 FEET NORTHEAST OF THE SOUTHEAST CORNER OF A BRIDGE.

Station Notes
THE BRIDGE WAS REBUILT AND WIDENED 2004-2005.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	775.225	0.016	236.289	0.005	2/0	2000	00000359
NGVD29	775.067	0.016	236.241	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.806 12B = -89.803 09 = -89.728 03 = -89.563

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 N

NGS Name: 1982 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1369](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	16	115 N	20 W	444552.80	931411.10	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** 1982 N 1972

2.0 MILES SOUTHEAST OF BURNSVILLE, 0.15 MILE SOUTH ALONG COUNTY ROAD 11 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 11 IN APPLE VALLEY, THEN 0.75 MILE NORTHEAST ON PALOMINO DRIVE, THEN 0.4 MILE NORTHWEST ON THE HIALEAH PATH TO BELMONT COURT, BEHIND 207 BELMONT COURT, 138.0 FEET SOUTHEAST OF INTERSTATE HIGHWAY 35E, 47.0 FEET SOUTHWEST OF THE CORNER BETWEEN LOTS 4 AND 5, 24.0 FEET EAST OF A 30.0 INCH DIAMETER OAK TREE, 1.0 FOOT EAST OF A WITNESS POST. STATION 1982 N IS INACCESSIBLE FROM INTERSTATE HIGHWAY 35E BECAUSE OF THE NOISE WALL. STATION 1982 N IS BEHIND THE GARAGE OF 207 BELMONT COURT. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	988.407	0.016	301.267	0.005	2/0	1991	00000025
NGVD29	988.184	0.016	301.199	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.787 12B = -89.783 09 = -89.734 03 = -89.534

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_N-PP1369-3NW-05MAY2008.jpg	NW	May 5, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_N-PP1369-2-05MAY2008.jpg		May 5, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_N-PP1369-1-05MAY2008.jpg		May 5, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7197.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 P

NGS Name: 1982 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1370](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	115 N	20 W	444612.00	931338.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2014	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 1982 P 1972

3.0 MILES WEST OF BURNSVILLE, AT THE JUNCTION OF BUTTE AVENUE AND HIDDEN MEADOW ROAD IN PALAMINO HILLS, 2.0 FEET WEST OF A CORNER BETWEEN LOTS 5 AND 6, 162.0 FEET WEST OF A FIRE HYDRANT, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes

SEARCHED TIE LOCATION AND TALKED TO LAND OWNER, COULDN'T FIND MARK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	957.859	0.016	291.956	0.005	2/0	1991	00000025
NGVD29	957.639	0.016	291.889	0.005	2	1973	L22832

Geoid Separations(ft): GEOID18 = -89.839 12B = -89.839 09 = -89.783 03 = -89.583

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7198.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 Q

NGS Name: 1982 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1374](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	31	27 N	23 W	444717.66	931245.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2014	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1982 Q 1972

IN EAGAN, 0.43 MILE EAST ALONG COUNTY ROAD 32/ CLIFF ROAD FROM THE JUNCTION OF COUNTY ROAD 32/ CLIFF ROAD AND TRUNK HIGHWAY 77, 0.55 MILE WEST ALONG COUNTY ROAD 32/ CLIFF ROAD FROM INTERSTATE HIGHWAY 35E, 63.0 FEET SOUTH OF A ROAD, 48.4 FEET WEST OF A ROAD, 39.1 FEET NORTH-NORTHWEST OF NORTHEAST CORNER OF THE DRIVERS EXAMINATION BUILDING, 0.5 FOOT NORTH OF THE NORTHEAST CORNER OF A FLAGPOLE, IN THE NORTH SIDE OF THE BASE OF A FLAGPOLE AT THE MINNESOTA DRIVERS EXAMINING STATION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	911.842	0.016	277.930	0.005	2/1	2000	00000359
NGVD29	911.589	0.016	277.853	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.829 12B = -89.832 09 = -89.764 03 = -89.573

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7199.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7199.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 Q RESET

NGS Name: 1982 Q RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9205](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	31	27 N	23 W	444717.66	931245.31	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MAT FOUNDATION (NON-PAVEMENT)	BENCH MARK DISK	MNDT

Description: (2003) **Stamping:** 1982 Q 1972 RESET 2003

IN EAGAN, 0.43 MILE EAST ALONG COUNTY ROAD 32/CLIFF ROAD FROM THE JUNCTION OF COUNTY ROAD 32/CLIFF ROAD AND TRUNK HIGHWAY 77, 0.55 MILE WEST ALONG COUNTY ROAD 32/CLIFF ROAD FROM INTERSTATE HIGHWAY 35E, 63.0 FEET SOUTH OF A ROAD, 48.4 FEET WEST OF A ROAD, 39.1 FEET NORTH-NORTHWEST OF THE NORTHEAST CORNER OF A DRIVERS EXAMINATION BUILDING, 0.5 FOOT NORTH OF THE NORTHEAST CORNER OF A FLAGPOLE, IN THE NORTH SIDE OF THE BASE OF A FLAGPOLE AT THE MINNESOTA DRIVERS EXAMINING STATION.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	912.810	0.016	278.225	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.829 12B = -89.832 09 = -89.764 03 = -89.573

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_Q_RESET-DP9205-3SW-13JUL2023.jpg	SW	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_Q_RESET-DP9205-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_Q_RESET-DP9205-1-22APR2015.jpg		Apr 22, 2015

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 R

NGS Name: 1982 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1375](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	27 N	23 W	444723.96	931153.78	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1982 R 1972

IN EAGAN, 0.7 MILE SOUTHEAST OF CEDAR GROVE SCHOOL, 55.0 FEET SOUTH OF CLIFF ROAD, 159.5 FEET WEST OF EXTENDED BLACKHAWK ROAD, 124.0 FEET SOUTH-SOUTHEAST OF A POWER POLE, 1.3 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	958.971	0.016	292.295	0.005	2/0	1991	00000025
NGVD29	958.751	0.016	292.228	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.944 12B = -89.947 09 = -89.878 03 = -89.688

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 47 23.96160	93 11 53.78061	530739.500	215980.282	161769.723	65830.922	264.969	2	1999	17648		
NAD83 (1986)	44 47 23.95545	93 11 53.77854	530739.650	215979.660	161769.769	65830.732		2	1986	17289		
NAD27	44 47 24.07986	93 11 52.98301						2	1979	15198		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_R-PP1375-3SW-14JUL2014.jpg	SW	Jul 14, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_R-PP1375-2-14JUL2014.jpg		Jul 14, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_R-PP1375-1-14JUL2014.jpg		Jul 14, 2014

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7200.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 S

NGS Name: 1982 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1376](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	29	27 N	23 W	444752.69	931148.56	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 5 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1982 S 1972

IN EAGAN, 0.1 MILE EAST OF THE JUNCTION OF COUNTY ROAD 32 (CLIFF ROAD) AND INTERSTATE HIGHWAY 35E, THEN 0.55 MILE NORTH ON BLACKHAWK DRIVE, 100.0 FEET SOUTHEAST OF BLACKHAWK ROAD, 60.5 FEET SOUTH-SOUTHEAST OF A POWER POLE, 38.0 FEET WEST-NORTHWEST OF A RIGHT-OF-WAY FENCE, 6.4 FEET NORTH OF A POWER POLE NUMBER DADE 11, 1.2 FEET WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	906.189	0.016	276.207	0.005	2/1	2020	00000955
NGVD29	905.973	0.016	276.141	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.898 12B = -89.898 09 = -89.829 03 = -89.645

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_S-PP1376-3E-18JUL2023.jpg	E	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_S-PP1376-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1982_S-PP1376-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 T

NGS Name: 1982 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1379](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	21	27 N	23 W	444842.00	931035.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** 1982 T 1972

5.0 MILES SOUTH OF MENDOTA, 0.45 MILE WEST OF THE JUNCTION OF COUNTY ROAD 31 AND DEERWOOD DRIVE, 19.0 FEET SOUTH OF DEERWOOD DRIVE, 52.0 FEET SOUTHEAST OF A POWER POLE, NEAR PROPOSED CROSSING OF INTERSTATE HIGHWAY 35 EAST, 14.0 FEET EAST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	898.748	0.016	273.939	0.005	2/0	1991	00000025
NGVD29	898.542	0.016	273.876	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.983 12B = -89.983 09 = -89.908 03 = -89.731

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7202.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7202.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 U

NGS Name: 1982 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1380](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	16	27 N	23 W	444923.00	931035.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** 1982 U 1972

4.2 MILES SOUTH OF MENDOTA, 0.4 MILE WEST OF THE JUNCTION OF COUNTY ROAD 31 AND BLACKHAWK ROAD, AT THE CREST OF A HILL, 251.0 FEET WEST OF A POWER POLE, 6.0 FEET EAST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST, ALONG BLACKHAWK ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	863.233	0.016	263.114	0.005	2/0	1991	00000025
NGVD29	863.033	0.016	263.053	0.005	2	1973	L22832

Geoid Separations(ft): GEOID18 = -89.908 12B = -89.908 09 = -89.829 03 = -89.659

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7203.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7203.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 V

NGS Name: 1982 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1381](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	27 N	23 W	444958.00	931003.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** 1982 V 1972

3.6 MILES SOUTH OF MENDOTA, NEAR THE JUNCTION OF COUNTY ROAD 28 AND COUNTY ROAD 31, 0.1 MILE SOUTH OF COUNTY ROAD 28, 31.0 FEET WEST OF COUNTY ROAD 31, 79.0 FEET NORTHWEST OF A POWER POLE, 6.0 FEET SOUTH OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	915.635	0.016	279.086	0.005	2/0	1991	00000025
NGVD29	915.435	0.016	279.025	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.918 09 = -89.839 03 = -89.672

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1982 W

NGS Name: 1982 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1383](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	27 N	23 W	445048.00	930848.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** 1982 W 1972

2.7 MILES SOUTHEAST OF MENDOTA, IN THE SOUTHWEST CORNER OF THE JUNCTION OF COUNTY ROAD 43 AND COUNTY ROAD 26, 92.0 FEET WEST OF COUNTY ROAD 43, 46.0 FEET SOUTH OF COUNTY ROAD 26, 11.0 FEET WEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	885.395	0.016	269.869	0.005	2/0	1991	00000025
NGVD29	885.205	0.016	269.811	0.005	2	1973	L22832

Geoid Separations(ft): GEOID18 = -900000 12B = -90.003 09 = -89.924 03 = -89.754

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7205.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7205.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 A

NGS Name: 1985 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1448](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	28 W	445257.00	930110.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1969	2006	DESTROYED	Horz=NO Vert=NO	NO	9343		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1985 A 1969

IN SOUTH ST. PAUL, ON THE WEST BANK OF THE MISSISSIPPI RIVER, IN THE NORTHWEST CORNER OF INTERSTATE HIGHWAY 494 BRIDGE NUMBER 9343 OVER THE MISSISSIPPI RIVER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	729.221	0.016	222.267	0.005	2/0	1991	00000025
NGVD29	729.064	0.016	222.219	0.005	2	1972	L124 MINN

Geoid Separations(ft): GEOID18 = -90.974 12B = -90.984 09 = -90.902 03 = -90.728

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7206.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7206.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 A 1

NGS Name: 1985 A 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1447](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	28 N	22 W	445248.00	930128.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	6616		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (2010)

Stamping: 1985 A 1 1970

IN SOUTH ST. PAUL, 0.2 MILE WEST OF THE MISSISSIPPI RIVER, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 494 BRIDGE NUMBER 6616 OVER STOCKYARD ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	723.237	0.016	220.443	0.005	2/0	1991	00000025
NGVD29	723.079	0.016	220.395	0.005	2	1971	L22344

Geoid Separations(ft): GEOID18 = -90.938 12B = -90.951 09 = -90.869 03 = -90.692

* No Horizontal Positions in the Database *

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AA

NGS Name: 1985 AA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ5268](#) [Get Map](#)
NGS Quad / Sta Num : 44093111/
USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	22 W	445257.20	930122.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 37 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** 1985 AA 2016

IN SOUTH ST. PAUL, 0.5 MILE WEST ALONG WESTBOUND INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND MAXWELL AVENUE IN SOUTH ST. PAUL TO INTERSTATE HIGHWAY 494 MILEPOINT 64.1, THEN 0.2 MILE WEST ON-OFF RAMP TO HARDMAN AVENUE, 65.3 FEET SOUTH OF THE OFF RAMP TO HARDMAN AVENUE, 35.2 FEET NORTHEAST OF THE ON RAMP TO WESTBOUND INTERSTATE HIGHWAY 494, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	710.550	0.016	216.576	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.935 12B = -90.948 09 = -90.863 03 = -90.689

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 57.19842	93 01 22.32139	576159.257	249845.665	175613.693	76153.111	188.865			2017	GPS3178	
NAD83 (1996)	44 52 57.19827	93 01 22.32168	576159.236	249845.650	175613.686	76153.106	188.928	C		2017	HPIGS	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AA-DQ5268-3NE-09AUG2023.jpg	NE	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AA-DQ5268-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AA-DQ5268-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_105401.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AB

NGS Name: 1985 AB

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	6	27 N	22 W	445137.82	930619.84	2	

NGS ACRN: AH4421	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19831	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AB 1989

IN INVER GROVE HEIGHTS, 1.5 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 110 AND DELAWARE AVENUE (COUNTY ROAD 63), IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF COUNTY ROAD 63 (ARGENTINA TRAIL) BRIDGE NUMBER 19831 OVER INTERSTATE HIGHWAY 494, 24.5 FEET NORTHEAST OF COUNTY ROAD 63, 45.9 FEET NORTH OF SOUTHEAST CORNER OF A BRIDGE RAILING, 46.2 FEET NORTHWEST OF THE END STEEL POST IN A RIGHT-OF-WAY FENCE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	917.052	0.016	279.518	0.005	2/1	2000	00000359
NGVD29	916.885	0.016	279.467	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.252 12B = -90.262 09 = -90.193 03 = -90.013

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AB-AH4421-3E-03AUG2023.jpg	E	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AB-AH4421-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AB-AH4421-1-08NOV2011.jpg		Nov 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7208.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7208.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AC

NGS Name: 1985 AC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4422](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	31	28 N	22 W	445148.42	930621.56	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AC 1989

IN SUNFISH LAKE, 1.3 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 110 AND COUNTY ROAD 63 (DELAWARE AVENUE), 30.0 FEET EAST OF COUNTY ROAD 63, 51.7 FEET NORTH OF A POWER POLE WITH A TRANSFORMER, 2.9 FEET WEST OF A FENCE LINE, 0.7 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	889.952	0.016	271.258	0.005	2/1	2020	00000955
NGVD29	889.769	0.016	271.202	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.229 12B = -90.239 09 = -90.170 03 = -89.990

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AC-AH4422-3NE-03AUG2023.jpg	NE	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AC-AH4422-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AC-AH4422-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7209.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7209.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AD

NGS Name: 1985 AD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4423](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	31	28 N	22 W	445219.21	930621.32	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1989) **Stamping:** 1985 AD 1989

AT SUNFISH LAKE, 0.8 MILE SOUTH ALONG COUNTY ROAD 63/DELAWARE AVENUE FROM THE JUNCTION OF COUNTY ROAD 63/DELAWARE AVENUE AND TRUNK HIGHWAY 110, AT THE JUNCTION OF COUNTY ROAD 63 AND SALEM CHURCH ROAD, 30.5 FEET EAST OF COUNTY ROAD 63, 45.0 FEET SOUTHWEST OF SALEM CHURCH ROAD, 6.1 FEET SOUTH OF A POWER POLE, 1.1 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	904.591	0.016	275.720	0.005	2/1	2020	00000955
NGVD29	904.414	0.016	275.666	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.174 12B = -90.180 09 = -90.121 03 = -89.937

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AD-AH4423-3NE-03AUG2023.jpg	NE	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AD-AH4423-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AD-AH4423-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7210.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7210.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AE

NGS Name: 1985 AE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4424](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	28 N	22 W	445146.00	930528.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AE 1989

IN SUNFISH LAKE, 0.85 MILE SOUTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 52, 81.5 FEET EAST-SOUTHEAST OF INTERSTATE HIGHWAY 494, 145.9 FEET NORTHEAST OF A PIEPER ROAD BRIDGE OVER INTERSTATE HIGHWAY 494, 43.9 FEET EAST-SOUTHEAST OF INTERSTATE HIGHWAY 494 MILEPOST 68, 1.1 FEET WEST-NORTHWEST OF A WITNESS POST.

Station Notes

RECOVERED DISK OFF THE ROD, RETURNED TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.326	0.016	280.211	0.005	2/1	2000	00000359
NGVD29	919.168	0.016	280.163	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.361 12B = -90.371 09 = -90.311 03 = -90.121

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AE-AH4424-1-28NOV2006.jpg		Nov 28, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7211.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7211.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AF

NGS Name: 1985 AF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: AH4425	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	6	27 N	22 W	445142.57	930532.78	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19835	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** 1985 AF 1989

IN SUNFISH LAKE, 0.95 MILE SOUTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 52, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF PIEPER ROAD (60TH STREET) BRIDGE NUMBER 19835 OVER INTERSTATE HIGHWAY 494, AT INTERSTATE HIGHWAY 494 MILEPOINT 68.1, 19.0 FEET SOUTH OF PIEPER ROAD, 72.5 FEET WEST OF AN END STEEL RIGHT-OF-WAY POST, 73.4 FEET WEST OF THE SOUTHEAST CORNER OF A BRIDGE RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	941.445	0.016	286.953	0.005	2/1	2000	00000359
NGVD29	941.287	0.016	286.905	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.357 12B = -90.367 09 = -90.305 03 = -90.115

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AF-AH4425-3S-03AUG2023.jpg	S	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AF-AH4425-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AF-AH4425-1-13OCT2011.jpg		Oct 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7212.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7212.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AG

NGS Name: 1985 AG

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	27 N	22 W	445142.57	930537.66	2	

NGS ACRN: AH4426	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19835	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1985 AG 1989

IN SUNFISH LAKE, 0.95 MILE SOUTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 52, IN THE TOP OF A RAILING AT THE SOUTHWEST CORNER OF PIEPER ROAD (60TH STREET) BRIDGE NUMBER 19835 OVER INTERSTATE HIGHWAY 494, AT INTERSTATE HIGHWAY 494 MILEPOINT 68.1, 19.0 FEET SOUTH OF PIEPER ROAD, 44.7 FEET EAST-NORTHEAST OF AN END STEEL RIGHT-OF-WAY POST, 44.4 FEET EAST OF THE SOUTHWEST CORNER OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	934.828	0.016	284.936	0.005	2/1	2000	00000359
NGVD29	934.667	0.016	284.887	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.344 12B = -90.354 09 = -90.292 03 = -90.105

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AG-AH4426-3S-03AUG2023.jpg	S	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AG-AH4426-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AG-AH4426-1-13OCT2011.jpg		Oct 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7213.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7213.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AH

NGS Name: 1985 AH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4442](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	33	28 N	22 W	445227.82	930311.26	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AH 1989

IN INVER GROVE HEIGHTS, NEAR A BLAINE AVENUE BRIDGE OVER INTERSTATE HIGHWAY 494, AT INTERSTATE HIGHWAY 494 MILEPOINT 65.6, 102.0 FEET WEST OF THE SOUTH ABUTMENT ON THE BLAINE AVENUE BRIDGE, 63.3 FEET WEST-NORTHWEST OF A CORNER POST OF A RIGHT-OF-WAY FENCE, 20.0 FEET NORTHEAST OF A SINGLE POPLAR TREE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	879.562	0.016	268.091	0.005	2/1	2020	00000955
NGVD29	879.391	0.016	268.039	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.653 12B = -90.663 09 = -90.607 03 = -90.410

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AH-AH4442-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AH-AH4442-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AH-AH4442-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7214.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7214.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AJ

NGS Name: 1985 AJ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4436](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	28 N	22 W	445226.60	930352.03	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19854	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 1985 AJ 1989

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF COUNTY ROAD 73 (BABCOCK TRAIL) BRIDGE NUMBER 19854 OVER INTERSTATE HIGHWAY 494, 27.0 FEET EAST OF COUNTY ROAD 73, 35.5 FEET NORTH-NORTHWEST OF THE SOUTH FENCE POST IN A BRIDGE FENCE, 10.6 FEET WEST OF A BRIDGE FENCE, 20.2 FEET NORTH OF THE SOUTHEAST CORNER OF THE EAST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	932.777	0.016	284.311	0.005	2/1	2020	00000955
NGVD29	932.659	0.016	284.275	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.535 12B = -90.541 09 = -90.492 03 = -90.292

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AJ-AH4436-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AJ-AH4436-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AJ-AH4436-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7215.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7215.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AK

NGS Name: 1985 AK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4437](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	33	28 N	22 W	445231.44	930352.99	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19854	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1985 AK 1989

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE NORTHWEST CORNER OF COUNTY ROAD 73 (BABCOCK TRAIL) BRIDGE NUMBER 19854 OVER INTERSTATE HIGHWAY 494, 27.5 FEET WEST OF COUNTY ROAD 73, 26.9 FEET SOUTH-SOUTHEAST OF THE END STEEL POST OF A RIGHT-OF-WAY FENCE, 27.0 FEET SOUTH OF THE NORTHWEST CORNER OF THE WEST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	932.416	0.016	284.201	0.005	2/1	2013	00000781
NGVD29	932.305	0.016	284.167	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.521 12B = -90.528 09 = -90.482 03 = -90.279

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AK-AH4437-3W-10AUG2023.jpg	W	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AK-AH4437-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AK-AH4437-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7216.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7216.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AL

NGS Name: 1985 AL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4438](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	33	28 N	22 W	445227.17	930338.68	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19855	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AL 1989

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF SOUTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19855 OVER INTERSTATE HIGHWAY 494, 18.5 FEET EAST OF SOUTHBOUND TRUNK HIGHWAY 52, 0.6 FOOT NORTH OF THE SOUTHEAST CORNER OF THE EAST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.853	0.016	283.115	0.005	2/1	2004	00000449
NGVD29	928.715	0.016	283.073	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.571 12B = -90.581 09 = -90.528 03 = -90.328

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AL-AH4438-3S-09AUG2023.jpg	S	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AL-AH4438-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AL-AH4438-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7217.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7217.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AM

NGS Name: 1985 AM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4439](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	33	28 N	22 W	445231.10	930339.69	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19855	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AM 1989

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE NORTHWEST CORNER OF SOUTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19855 OVER INTERSTATE HIGHWAY 494, 46.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 36.0 FEET SOUTH-SOUTHEAST OF LIGHT STANDARD S-8-H-28, 0.7 FOOT SOUTH OF THE NORTHWEST CORNER OF THE WEST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	926.573	0.016	282.420	0.005	2/1	2000	00000359
NGVD29	926.435	0.016	282.378	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.561 12B = -90.571 09 = -90.518 03 = -90.318

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AM-AH4439-3W-09AUG2023.jpg	W	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AM-AH4439-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AM-AH4439-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7218.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7218.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AN

NGS Name: 1985 AN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4440](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u> <u>Sec</u> <u>Twp</u> <u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW 33 28 N 22 W	445231.10	930338.41	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19856	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AN 1989

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE NORTHWEST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19856 OVER INTERSTATE HIGHWAY 494, 19.0 FEET WEST OF NORTHBOUND TRUNK HIGHWAY 52, 21.9 FEET SOUTH-SOUTHEAST OF A LARGE STEEL OVERHEAD SIGNPOST, 1.1 FEET SOUTH OF THE NORTHWEST CORNER OF THE WEST BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	927.134	0.016	282.591	0.005	2/1	2000	00000359
NGVD29	926.996	0.016	282.549	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.564 12B = -90.574 09 = -90.521 03 = -90.321

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AN-AH4440-3N-09AUG2023.jpg	N	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AN-AH4440-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AN-AH4440-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7219.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7219.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AP

NGS Name: 1985 AP

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	28 N	22 W	445227.17	930337.40	2	

NGS ACRN: AH4441	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1984	2023	GOOD	Horz=NO Vert=NO	YES	19856	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010)

Stamping: 1985 AP 1989

IN INVER GROVE HEIGHTS, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19856 OVER INTERSTATE HIGHWAY 494, 46.5 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 62.9 FEET NORTH-NORTHWEST OF LIGHT STANDARD S-8-L-60, 1.3 FEET NORTH OF THE SOUTHEAST CORNER OF THE EAST BRIDGE RAILING. THE DISK WAS SET IN THE BRIDGE WHEN BUILT IN 1984 THEN STAMPED WHEN USED IN 1989. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.466	0.016	282.997	0.005	2/1	2004	00000449
NGVD29	928.331	0.016	282.956	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.574 12B = -90.584 09 = -90.535 03 = -90.331

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AP-AH4441-3SE-09AUG2023.jpg	SE	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AP-AH4441-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AP-AH4441-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7220.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7220.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AQ

NGS Name: 1985 AQ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4435](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	32	28 N	22 W	445227.80	930400.89	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 4 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AQ 1989

IN INVER GROVE HEIGHTS, MIDWAY BETWEEN THE JUNCTION OF INTERSTATE HIGHWAY 494 WITH TRUNK HIGHWAY 110 AND THE JUNCTION OF INTERSTATE HIGHWAY 494 WITH TRUNK HIGHWAY 3, ACROSS FROM DUPLEX NUMBERS 1918 AND 1926, ABOUT 500.0 FEET WEST OF BABCOCK TRAIL OVERPASS, 2.6 FEET SOUTH OF A SOUTH RIGHT-OF-WAY FENCE, 30.0 FEET NORTH OF 52ND STREET EAST, 2.0 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	930.234	0.016	283.536	0.005	2/1	2020	00000955
NGVD29	929.988	0.016	283.461	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.505 12B = -90.515 09 = -90.466 03 = -90.262

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AQ-AH4435-3N-10AUG2023.jpg	N	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AQ-AH4435-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AQ-AH4435-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7221.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7221.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AR

NGS Name: 1985 AR

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4443](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	33	28 N	22 W	445227.75	930309.05	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19837	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AR 1989

IN INVER GROVE HEIGHTS, IN WALKWAY AT THE SOUTHEAST CORNER OF BLAINE AVENUE BRIDGE NUMBER 19837 OVER INTERSTATE HIGHWAY 494, 27.8 FEET EAST OF BLAINE AVENUE, 22.3 FEET NORTH OF THE SOUTHEAST CORNER OF A BRIDGE, 0.5 FOOT WEST OF A BRIDGE RAILING.

Station Notes

THE MARK HAS BEEN SCRAPED BY SNOW REMOVAL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	900.415	0.016	274.447	0.005	2/1	2020	00000955
NGVD29	900.284	0.016	274.407	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.659 12B = -90.669 09 = -90.613 03 = -90.416

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AR-AH4443-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AR-AH4443-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AR-AH4443-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7222.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7222.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AS

NGS Name: 1985 AS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4444](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	28 N	22 W	445227.22	930232.38	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES	19894	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AS 1989

IN SOUTH ST. PAUL, 0.9 MILE EAST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 3, IN A WALKWAY AT THE SOUTHEAST CORNER OF SEVENTH STREET BRIDGE NUMBER 19894 OVER INTERSTATE HIGHWAY 494, 0.6 FOOT NORTH-NORTHWEST OF THE SOUTHEAST CORNER OF A BRIDGE, 0.3 FOOT WEST OF A BRIDGE RAILING.

Station Notes

THE MARK HAS BEEN SCRAPED BY SNOW REMOVAL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	825.543	0.016	251.626	0.005	2/1	2020	00000955
NGVD29	825.402	0.016	251.583	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.777 12B = -90.787 09 = -90.722 03 = -90.535

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AS-AH4444-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AS-AH4444-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AS-AH4444-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7223.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7223.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AT

NGS Name: 1985 AT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4445](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	28 N	22 W	445226.89	930223.26	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=YES	YES	19895	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	REFERENCE MARK DISK	MNDT

Description: (1989) **Stamping:** 1985 AT 1989

AT SOUTH ST. PAUL, IN A WALKWAY AT THE SOUTHEAST CORNER OF FIFTH STREET BRIDGE NUMBER 19895 OVER INTERSTATE HIGHWAY 494, 31.0 FEET EAST OF FIFTH STREET, 19.3 FEET NORTH OF THE SOUTHEAST CORNER OF A BRIDGE, 0.6 FOOT WEST OF A BRIDGE RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	821.783	0.016	250.480	0.005	2/1	2020	00000955
NGVD29	821.645	0.016	250.438	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.807 12B = -90.817 09 = -90.748 03 = -90.564

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AT-AH4445-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AT-AH4445-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AT-AH4445-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7224.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7224.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AU

NGS Name: 1985 AU

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4446](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u> <u>Sec</u> <u>Twp</u> <u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE 34 28 N 22 W	445233.92	930149.22	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19865	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AU 1989

IN SOUTH ST. PAUL, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF EASTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19865 OVER TRUNK HIGHWAY 56 (CONCORD STREET), 37.5 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494, 1.2 FEET WEST OF THE SOUTHEAST CORNER OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	745.697	0.016	227.289	0.005	2/1	2000	00000359
NGVD29	745.576	0.016	227.252	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.902 12B = -90.912 09 = -90.836 03 = -90.659

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AU-AH4446-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AU-AH4446-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AU-AH4446-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7225.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7225.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AU 1

NGS Name: 1985 AU 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7395](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	28 N	22 W	445224.92	930144.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1985 AU 1 2014

IN SOUTH ST. PAUL, 0.2 MILE SOUTH-SOUTHEAST ALONG COUNTY ROAD 56 (CONCORD STREET) FROM THE JUNCTION OF COUNTY ROAD 56 AND TRUNK HIGHWAY 156 AND INTERSTATE HIGHWAY 494 IN THE SOUTH ST. PAUL, AT INTERSTATE HIGHWAY 494 MILEPOINT 64.7, 30.3 FEET EAST-NORTHEAST OF COUNTY ROAD 56 FOG LINE, 16.4 FEET EAST-NORTHEAST OF THE EAST EDGE OF A SIDEWALK, 6.0 FEET EAST OF THE WEST EDGE OF A PARKING LOT, 15.0 FEET EAST OF A WITNESS POST.

Station Pair: WALSER - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	716.176	0.016	218.291	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.938 12B = -90.948 09 = -90.873 03 = -90.695

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 24.92085	93 01 44.31731	574586.974	246570.918	175134.460	75154.966	190.557			2015	GPS3085	
NAD83 (1996)	44 52 24.92067	93 01 44.31760	574586.953	246570.899	175134.454	75154.960	190.629	C		2015	HDTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AU_1-DP7395-3W-10AUG2023.jpg	W	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AU_1-DP7395-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AU_1-DP7395-1-20SEP2016.jpg		Sep 20, 2016

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101782.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101782.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AV

NGS Name: 1985 AV

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4399](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	27 N	23 W	445139.00	931002.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2002	DESTROYED	Horz=NO Vert=NO	YES	19826	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AV 1989

IN EAGAN, 1.0 MILE WEST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35 EAST, IN A BRIDGE SIDEWALK AT THE SOUTHWEST CORNER OF PILOT KNOB ROAD BRIDGE NUMBER 19826 OVER WESTBOUND INTERSTATE HIGHWAY 494, 0.9 FOOT NORTH OF THE SOUTHWEST CORNER OF A BRIDGE, 0.6 FOOT EAST OF THE EAST FACE OF THE WEST BRIDGE RAILING.

Station Notes

LOOKS LIKE STEM REMAINS IN 2006 PHOTO.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	863.131	0.016	263.083	0.005	2/1	2000	00000359
NGVD29	862.941	0.016	263.025	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.767 12B = -89.767 09 = -89.682 03 = -89.531

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location: Monument: Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AV-AH4399-1-22NOV2006.jpg		Nov 22, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7226.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7226.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AW

NGS Name: 1985 AW

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4417](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	28 N	23 W	445145.00	930753.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AW 1989

IN MENDOTA HEIGHTS, NEAR THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 149 (DODD ROAD), 109.0 FEET WEST OF TRUNK HIGHWAY 149 BRIDGE OVER INTERSTATE HIGHWAY 494, 99.0 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494, 89.0 FEET NORTHWEST OF A RIGHT-OF-WAY FENCE.

Station Notes

THE DISK WAS RETURNED TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.538	0.016	269.303	0.005	2/1	2000	00000359
NGVD29	883.364	0.016	269.250	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.026 12B = -90.033 09 = -89.957 03 = -89.787

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AW-AH4417-1-22NOV2006.jpg		Nov 22, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7227.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7227.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AX

NGS Name: 1985 AX

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4418](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	23 W	445143.83	930745.33	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=NO Vert=NO	YES	19857	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** 1985 AX 1989

IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 69.9, AT THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 149 (DODD ROAD), IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF TRUNK HIGHWAY 149 BRIDGE NUMBER 19857 OVER INTERSTATE HIGHWAY 494, 10.4 FEET NORTHWEST OF A MINNESOTA DEPARTMENT OF TRANSPORTATION CAMERA POLE NUMBER 412, 2.1 FEET NORTH OF THE SOUTHEAST CORNER OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	911.812	0.016	277.921	0.005	2/1	2016	00000879
NGVD29	911.639	0.016	277.868	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.046 12B = -90.052 09 = -89.977 03 = -89.806

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AX-AH4418-3E-03AUG2023.jpg	E	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AX-AH4418-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AX-AH4418-1-08NOV2011.jpg		Nov 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7228.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7228.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AY

NGS Name: 1985 AY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4419](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	27 N	23 W	445140.47	930628.09	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 AY 1989

IN EAGAN, 500.0 FEET WEST OF THE JUNCTION OF DELAWARE AVENUE AND INTERSTATE HIGHWAY 494, AT INTERSTATE HIGHWAY 494 MILEPOINT 68.6, 39.0 FEET NORTHEAST OF ONEIL ROAD, 123.0 FEET NORTHEAST OF HIGH TENSION POLE, 100.4 FEET NORTH OF A POWER POLE, 1.6 FEET SOUTH-SOUTHWEST OF A RIGHT-OF-WAY FENCE, 1.4 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	884.339	0.016	269.547	0.005	2/1	2020	00000955
NGVD29	884.158	0.016	269.492	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.226 12B = -90.239 09 = -90.167 03 = -89.987

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AY-AH4419-3N-03AUG2023.jpg	N	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AY-AH4419-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AY-AH4419-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7229.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7229.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 AZ

NGS Name: 1985 AZ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	4	27 N	23 W	445141.70	931025.60			1989	2023	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2003) **Stamping:** 1985 AZ 1989

0.3 MILE WEST ALONG INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND PILOT KNOB ROAD (COUNTY ROAD 31) IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 71.90, 110.0 FEET NORTH OF INTERSTATE HIGHWAY 494, 1.1 FEET WEST OF A WITNESS POST.

Station Notes

RECOVERED BENT ROD WITH NO DISK-2006.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.721 12B = -89.721 09 = -89.629 03 = -89.485

* No Horizontal Positions in the Database *

<u>Type</u>	<u>Station Photos</u> <u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_AZ-1-22NOV2006.jpg		Nov 22, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_42914.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_42914.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 B

NGS Name: 1985 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1445](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	28 N	22 W	445239.00	930150.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1969	2006	DESTROYED	Horz=NO Vert=NO	NO	6615		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1985 B 1969

IN SOUTH ST. PAUL, 0.5 MILE WEST OF THE MISSISSIPPI RIVER, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 494 BRIDGE NUMBER 6615 OVER A RAILROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	732.810	0.016	223.361	0.005	2/0	1991	00000025
NGVD29	732.653	0.016	223.313	0.005	2	1972	L124 MINN

Geoid Separations(ft): GEOID18 = -90.889 12B = -90.899 09 = -90.823 03 = -90.643

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7230.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7230.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 C

NGS Name: 1985 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1444](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	22 W	445234.00	930150.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	19865		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (1988) **Stamping:** 1985 C 1970

AT SOUTH ST. PAUL, 0.5 MILE WEST OF THE MISSISSIPPI RIVER, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 494 NORTHBOUND BRIDGE NUMBER 19865 OVER TRUNK HIGHWAY 56 (CONCORD STREET).

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	739.090	0.016	225.275	0.005	2/0	1991	00000025
NGVD29	738.932	0.016	225.227	0.005	2	1972	L124 MINN

Geoid Separations(ft): GEOID18 = -90.899 12B = -90.909 09 = -90.833 03 = -90.656

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7231.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7231.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 C 1

NGS Name: 1985 C 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1446](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	22 W	445234.00	930149.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2004	DESTROYED	Horz=NO Vert=NO	NO	9343		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SURVEY DISK	MNDT

Description: (1970) **Stamping:** 1985-C1 1970

IN SOUTH ST. PAUL, 0.4 MILE WEST OF THE MISSISSIPPI RIVER, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 494 WESTBOUND EXIT RAMP BRIDGE NUMBER 9343 TO TRUNK HIGHWAY 56 (CONCORD STREET).

Station Notes

THIS BRIDGE IS GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	733.634	0.016	223.612	0.005	2/0	1991	00000025
NGVD29	733.476	0.016	223.564	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.902 12B = -90.912 09 = -90.836 03 = -90.659

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7232.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7232.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 D

NGS Name: 1985 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1443](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	28 N	22 W	445230.00	930225.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	9275		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1985 D 1970

IN SOUTH ST. PAUL, 0.6 MILE WEST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 56 (CONCORD STREET), IN THE SOUTHEAST CORNER OF FIFTH AVENUE BRIDGE NUMBER 9275 OVER INTERSTATE HIGHWAY 494, AT INTERSTATE HIGHWAY 494 MILEPOINT 35.1.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	821.196	0.016	250.301	0.005	2/0	1991	00000025
NGVD29	821.032	0.016	250.251	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.794 12B = -90.804 09 = -90.738 03 = -90.551

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7233.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7233.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 E

NGS Name: 1985 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1442](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	28 N	22 W	445230.00	930231.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	NO	9274		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1985 E 1970

IN SOUTH ST. PAUL, 0.7 MILE WEST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 56 (CONCORD STREET), IN THE SOUTHEAST CORNER OF SEVENTH AVENUE BRIDGE NUMBER 9274 OVER INTERSTATE HIGHWAY 494, 30.0 FEET EAST OF SEVENTH AVENUE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	825.740	0.016	251.686	0.005	2/0	1991	00000025
NGVD29	825.579	0.016	251.637	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.774 12B = -90.787 09 = -90.718 03 = -90.531

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7234.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7234.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 F

NGS Name: 1985 F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1294](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	28 N	22 W	445225.00	930325.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2002	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
METAL ROD (W/BASE PLATE) BURIED (<10 FT)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1985 F 1977

IN INVER GROVE HEIGHTS, 1.45 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 110 AND TRUNK HIGHWAY 56, 64.8 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 110, 18.0 FEET EAST OF BISHOP AVENUE, 16.6 FEET SOUTH OF A STREET SIGN, 2.2 FEET EAST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

THE TIES FALL IN THE DRIVING LANE OF TRUNK HIGHWAY 52 OFF OF WESTBOUND 494.
 PLOTS NEAR WESTBOUND TRUNK HIGHWAY 494 OFF RAMP TO NORTHBOUND TRUNK HIGHWAY 52 -LAFAYETTE FREEWAY.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	910.100	0.016	277.399	0.005	2/0	1991	00000025
NGVD29	909.933	0.016	277.348	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.610 12B = -90.620 09 = -90.564 03 = -90.367

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7235.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7235.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 G

NGS Name: 1985 G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1299](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	28 N	22 W	445209.11	930536.81	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE) (DEPTH 24 FT)	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 G 1977

IN INVER GROVE HEIGHTS, 0.77 MILE SOUTH ALONG DELAWARE AVENUE FROM THE JUNCTION OF DELAWARE AVENUE AND TRUNK HIGHWAY 10, 0.7 MILE EAST ALONG SALEM CHURCH ROAD, 30.5 FEET NORTH OF SALEM CHURCH ROAD, 24.0 FEET EAST OF PRIVATE DRIVE HOUSE NUMBER 233 AND FIRE NUMBER 955, 60.0 FEET NORTH OF A POWER POLE, 12.0 FEET SOUTHWEST OF A 12.0 INCH DIAMETER WHITE PINE TREE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1012.416	0.016	308.585	0.005	2/1	2020	00000955
NGVD29	1012.229	0.016	308.528	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.292 12B = -90.302 09 = -90.246 03 = -90.052

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_G-PP1299-3N-03AUG2023.jpg	N	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_G-PP1299-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_G-PP1299-1-13OCT2011.jpg		Oct 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7236.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 H

NGS Name: 1985 H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1300](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	31	28 N	22 W	445218.00	930612.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2004	DESTROYED	Horz=NO Vert=NO	NO	CO RD		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1985 H 1977

IN INVER GROVE HEIGHTS, 0.65 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 18 AND TRUNK HIGHWAY 110, 13.0 FEET SOUTH OF COUNTY ROAD 18 (SALEM CHURCH ROAD), 0.1 MILE EAST OF ARGENTA TRAIL, IN THE SOUTH HEADWALL OF A COUNTY ROAD 18 BOX CULVERT, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

2002 - POWER SQUADRON REPORTED THAT A RESIDENT INFORMED THEM THAT THE ROAD WAS REDONE IN THE EARLY 1980'S AND THE CULVERT WAS REMOVED AT THAT TIME. SEARCHED FOR AND DID NOT FIND AGAIN IN 2004. THE BOX CULVERT IS GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	940.195	0.016	286.572	0.005	2/0	1991	00000025
NGVD29	940.018	0.016	286.518	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.197 12B = -90.203 09 = -90.144 03 = -89.957

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7237.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 J

NGS Name: 1985 J

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1301](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	27 N	23 W	445142.00	930625.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1988	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
METAL ROD (W/BASE PLATE) BURIED (<10 FT)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 1985 J 1977

IN THE NORTHEAST PART OF EAGAN, 1.7 MILES NORTH OF THE JUNCTION OF COUNTY ROAD 63 AND TRUNK HIGHWAY 55, 30.0 FEET WEST-SOUTHWEST OF COUNTY ROAD 63, 0.8 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 63 AND COUNTY ROAD 18 (SALEM CHURCH ROAD), 9.0 FEET NORTH OF A FIELD ENTRANCE WEST, 5.0 FEET WEST OF A CULVERT, 31.5 FEET SOUTH OF A POWER POLE, 0.7 FOOT EAST OF A WITNESS POST.

Station Notes

THE TIES FALL ALONG INTERSTATE 494 RIGHT-OF-WAY.
 PLOTS ON A SLOPE BETWEEN COUNTY ROAD 63 AND WESTBOUND TRUNK HIGHWAY 494, LOWER THAN PUBLISHED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	889.877	0.016	271.235	0.005	2/0	1991	00000025
NGVD29	889.696	0.016	271.180	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.233 12B = -90.246 09 = -90.174 03 = -89.993

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7238.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 K

NGS Name: 1985 K

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1303](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	27 N	23 W	445142.00	930747.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
METAL ROD (W/BASE PLATE) BURIED (<10 FT)	SURVEY DISK	MNDT

Description: (1977) **Stamping:** 1985 K 1977

IN EAGAN, 0.65 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 149 (DODD ROAD) AND TRUNK HIGHWAY 55, AT THE SOUTHEAST CORNER OF WOODS, 48.5 FEET WEST OF TRUNK HIGHWAY 149, 64.4 FEET SOUTH-SOUTHWEST OF A POWER POLE, 82.5 FEET NORTH-NORTHWEST OF A POWER POLE, 32.0 FEET NORTH OF A 10.0 INCH DIAMETER OAK TREE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	899.549	0.016	274.183	0.005	2/0	1991	00000025
NGVD29	899.362	0.016	274.126	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.042 12B = -90.049 09 = -89.974 03 = -89.803

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7239.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7239.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 L

NGS Name: 1985 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1307](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	27 N	23 W	445210.00	931000.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1980	DESTROYED	Horz=NO Vert=NO	NO	19826		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 1985 L 1977

IN EAGAN, 0.4 MILE EAST OF THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 13, IN A WALKWAY AT THE SOUTHEAST CORNER OF COUNTY ROAD 31 BRIDGE NUMBER 19826 OVER INTERSTATE HIGHWAY 494, 48.3 FEET EAST OF A CONCRETE MEDIAN, 0.9 FOOT WEST OF THE EAST RAILING BASE.

Station Notes
THE WALKWAY HAD BEEN REBUILT INTO A TURN LANE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	862.587	0.016	262.917	0.005	2/0	1991	00000025
NGVD29	862.393	0.016	262.858	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.767 12B = -89.767 09 = -89.682 03 = -89.534

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7240.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 M

NGS Name: 1985 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1308](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	4	27 N	23 W	445139.68	931031.58	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2023	GOOD	Horz=NO Vert=NO	YES	19825	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 1985 M 1977

IN EAGAN, AT THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 13, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19825 OVER TRUNK HIGHWAY 13, 63.0 FEET SOUTH OF A CONCRETE MEDIAN. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	773.171	0.016	235.663	0.005	2/1	2020	00000955
NGVD29	772.984	0.016	235.606	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.714 12B = -89.711 09 = -89.619 03 = -89.475

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_M-PP1308-3W-01AUG2023.jpg	W	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_M-PP1308-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_M-PP1308-1-01AUG2023.jpg		Aug 1, 2023

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Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 N

NGS Name: 1985 N

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1309](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	33	28 N	23 W	445145.53	931033.22	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	2023	DESTROYED	Horz=NO Vert=NO	YES	RR	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 N 1977

IN MENDOTA HEIGHTS, 0.1 MILE NORTH OF AN INTERSTATE HIGHWAY 494 BRIDGE OVER TRUNK HIGHWAY 13 AND A RAILROAD, IN THE SOUTH ABUTMENT OF A RAILROAD BRIDGE, 8.9 FEET EAST OF THE EAST RAIL OF A RAILROAD, 152.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 13.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	731.075	0.016	222.832	0.005	2/1	2013	00000781
NGVD29	730.845	0.016	222.762	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.705 12B = -89.701 09 = -89.609 03 = -89.465

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_N-PP1309-3N-22NOV2006.jpg	N	Nov 22, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_N-PP1309-2-22NOV2006.jpg		Nov 22, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_N-PP1309-1-22NOV2006.jpg		Nov 22, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7242.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 P

NGS Name: 1985 P

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	27 N	23 W	445139.00	931114.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (1980) **Stamping:** 1985 P 1980

IN EAGAN, 0.6 MILE WEST OF AN INTERSTATE HIGHWAY 494 BRIDGE OVER TRUNK HIGHWAY 13, 43.2 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494, 105.9 FEET SOUTHEAST OF A MANHOLE, 56.0 FEET NORTH OF A SOUTH RIGHT-OF-WAY FENCE, 1.1 FEET NORTH OF A WITNESS POST.

Station Notes

SEARCH BOTH SIDES OF THE PEDESTRIAN PATH ALONG SOUTH SIDE OF INTERSTATE HIGHWAY 494, 500.0 - 700.0 FEET EAST OF THE SOUTHEAST CORNER OF A BRIDGE

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.639 12B = -89.636 09 = -89.537 03 = -89.399

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7243.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7243.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 Q

NGS Name: 1985 Q

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	27 N	23 W	445139.70	931056.50		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 8 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1980) **Stamping:** 1985 Q 1980

IN EAGAN, 1300.0 FEET (0.25 MILE) WEST OF THE WEST END OF AN INTERSTATE HIGHWAY 494 BRIDGE OVER TRUNK HIGHWAY 13 AND A RAILROAD, 44.7 FEET SOUTH OF EASTBOUND STATION 86+74, 54.2 FEET NORTH OF THE SOUTH RIGHT-OF WAY FENCE, 1.0 FOOT NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.672 12B = -89.668 09 = -89.570 03 = -89.429

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7244.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7244.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 Q 1

NGS Name: 1985 Q 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4400](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445145.83	930854.30	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19897	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 Q 1 1988

IN MENDOTA HEIGHTS, IN A BRIDGE RAILING IN THE NORTHWEST CORNER OF WESTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19897 OVER WESTBOUND INTERSTATE HIGHWAY 494 CONNECTOR TO SOUTHBOUND 35E, AT INTERSTATE HIGHWAY 494 MILEPOINT 70.8, 31.0 FEET NORTH OF WESTBOUND INTERSTATE HIGHWAY 494, 31.2 FEET EAST OF THE NORTHWEST CORNER OF A RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	874.893	0.016	266.668	0.005	2/1	2000	00000359
NGVD29	874.713	0.016	266.613	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.892 12B = -89.898 09 = -89.816 03 = -89.652

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Q_1-AH4400-3N-03OCT2011.jpg	N	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Q_1-AH4400-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Q_1-AH4400-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7245.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7245.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 R

NGS Name: 1985 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	27 N	23 W	445139.70	931107.40		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE)	SURVEY DISK	MNDT

Description: (1980) **Stamping:** 1985 R 1980

IN EAGAN. 2100.0 FEET (0.45 MILE) WEST OF THE WEST END OF AN INTERSTATE HIGHWAY 494 BRIDGE OVER TRUNK HIGHWAY 13 AND A RAILROAD, 54.8 FEET NORTH OF A SOUTH RIGHT-OF-WAY FENCE, 45.0 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494, AT STATION 78+40.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.652 12B = -89.649 09 = -89.547 03 = -89.409

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7246.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7246.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 R 1

NGS Name: 1985 R 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4401](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445145.55	930852.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19897	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 R 1 1988

IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 70.8, IN THE TOP OF RAILING AT THE SOUTHEAST CORNER OF WESTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19897 OVER WESTBOUND INTERSTATE HIGHWAY 494 CONNECTOR TO SOUTHBOUND INTERSTATE HIGHWAY 35 EAST, 30.5 FEET SOUTH OF WESTBOUND INTERSTATE HIGHWAY 494, 32.2 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.348	0.016	266.197	0.005	2/1	2000	00000359
NGVD29	873.168	0.016	266.142	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.895 12B = -89.901 09 = -89.823 03 = -89.659

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_R_1-AH4401-3S-03OCT2011.jpg	S	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_R_1-AH4401-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_R_1-AH4401-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7247.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7247.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 S

NGS Name: 1985 S

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	27 N	23 W	445140.20	931129.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 7 FT)	VERTICAL CONTROL DISK	MNDT

Description: (1980) **Stamping:** 1985 S 1980

IN EAGAN, 46.0 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494, AT INTERSTATE HIGHWAY 494 STATION 62+00, 0.9 FOOT NORTH OF A WITNESS POST.

Station Notes

PLOTS ALONG INTERSTATE HIGHWAY 494 OVER GUN CLUB LAKE

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.609 12B = -89.606 09 = -89.508 03 = -89.370

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7248.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7248.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 S 1

NGS Name: 1985 S 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4402](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>			
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445144.36	930852.58	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19898	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 S 1 1988

IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 70.8, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF EASTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19898 OVER WESTBOUND INTERSTATE HIGHWAY 494 CONNECTOR LOOP TO SOUTHBOUND INTERSTATE HIGHWAY 35 EAST, 36.0 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494, 25.8 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	870.297	0.016	265.267	0.005	2/1	2000	00000359
NGVD29	870.116	0.016	265.212	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.898 12B = -89.905 09 = -89.823 03 = -89.659

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_S_1-AH4402-3S-03OCT2011.jpg	S	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_S_1-AH4402-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_S_1-AH4402-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7249.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7249.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 T

NGS Name: 1985 T

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	5	27 N	23 W	445142.00	931137.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE)	SURVEY DISK	MNDT

Description: (1980)

Stamping: 1985 T 1980

IN EAGAN, 55.0 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494, AT INTERSTATE HIGHWAY 494 STATION 56+30, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

PLOTS EITHER IN BRIDGE OR IN SWAMP UNDER INTERSTATE HIGHWAY 494

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.593 12B = -89.590 09 = -89.488 03 = -89.350

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7250.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7250.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 T 1

NGS Name: 1985 T 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4403](#) [Get Map](#)
NGS Quad / Sta Num : 44093113/
USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445143.64	930852.59	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19900	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 T 1 1988

IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 70.8, IN TOP OF A RAILING AT THE SOUTHEAST CORNER OF WESTBOUND INTERSTATE HIGHWAY 494 EXIT RAMP TO NORTHBOUND INTERSTATE HIGHWAY 35E BRIDGE NUMBER 19900 OVER EASTBOUND INTERSTATE HIGHWAY 494 CONNECTOR LOOP TO SOUTHBOUND INTERSTATE HIGHWAY 35 EAST, 27.3 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	871.301	0.016	265.573	0.005	2/1	2000	00000359
NGVD29	871.120	0.016	265.518	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.898 12B = -89.905 09 = -89.823 03 = -89.659

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_T_1-AH4403-3S-03OCT2011.jpg	S	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_T_1-AH4403-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_T_1-AH4403-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7251.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7251.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 U

NGS Name: 1985 U

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4398](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	27 N	23 W	445139.36	931038.50	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1982	2023	GOOD	Horz=NO Vert=NO	YES	19825	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 1985 U 1982

IN EAGAN, IN AN ABUTMENT AT THE SOUTHWEST CORNER OF PEDESTRIAN BRIDGE NUMBER 19825 OVER TRUNK HIGHWAY 13 AND A RAILROAD, AT INTERSTATE HIGHWAY 494 MILEPOINT 72.15, 2.8 FEET WEST-SOUTHWEST OF A STEEL POST OVER AN ENCLOSED PEDESTRIAN BRIDGE, 18.9 FEET EAST-NORTHEAST OF A WEST END FENCE POST, NEAR THE SOUTH FACE OF A FENCE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	758.102	0.016	231.070	0.005	2/1	2013	00000781
NGVD29	757.909	0.016	231.011	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.701 12B = -89.701 09 = -89.606 03 = -89.465

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_U-AH4398-3S-01AUG2023.jpg	S	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_U-AH4398-2-22APR2008.jpg		Apr 22, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_U-AH4398-1-22APR2008.jpg		Apr 22, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7252.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7252.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 U 1

NGS Name: 1985 U 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4379](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	23 W	445144.21	930840.11	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19878	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 U 1 1988

IN EAGAN, AT THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35 EAST, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF EASTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19878 OVER INTERSTATE HIGHWAY 35 EAST AND CONNECTOR TO NORTHBOUND INTERSTATE HIGHWAY 35 EAST, 16.5 FEET SOUTH OF INTERSTATE HIGHWAY 494 RAMP TO NORTHBOUND INTERSTATE HIGHWAY 35 EAST, 27.7 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	876.891	0.016	267.277	0.005	2/1	2000	00000359
NGVD29	876.711	0.016	267.222	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.924 12B = -89.931 09 = -89.852 03 = -89.685

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_U_1-AH4379-3S-03OCT2011.jpg	S	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_U_1-AH4379-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_U_1-AH4379-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7253.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7253.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 V

NGS Name: 1985 V

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4397](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	27 N	23 W	445141.00	931111.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1982	2008	DESTROYED	Horz=NO Vert=NO	YES	9217	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 V 1982

IN EAGAN, AT INTERSTATE HIGHWAY 494 MILEPOINT 0.0, IN THE TOP OF THE EAST END OF A JERSEY BARRICADE NEAR THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 494 BRIDGE NUMBER 9217 OVER THE MINNESOTA RIVER.

Station Notes

END OF BARRICADE HAS BEEN ADDED TO WITH ADDITIONAL CONCRETE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	731.203	0.016	222.871	0.005	2/1	2000	00000359
NGVD29	731.016	0.016	222.814	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.645 12B = -89.642 09 = -89.541 03 = -89.403

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_V-AH4397-3S-22NOV2006.jpg	S	Nov 22, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7254.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7254.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 V 1

NGS Name: 1985 V 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4404](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	23 W	445145.16	930839.77	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19824	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 V 1 1988

IN MENDOTA HEIGHTS, AT THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35 EAST, IN THE TOP OF A RAILING AT THE SOUTHEAST CORNER OF EASTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19824 OVER INTERSTATE HIGHWAY 35 EAST, AT INTERSTATE HIGHWAY 494 MILEPOINT 70.6, 9.4 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	878.791	0.016	267.856	0.005	2/1	2000	00000359
NGVD29	878.610	0.016	267.801	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.924 12B = -89.931 09 = -89.849 03 = -89.685

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_V_1-AH4404-3S-03OCT2011.jpg	S	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_V_1-AH4404-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_V_1-AH4404-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7255.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7255.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 W

NGS Name: 1985 W

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4396](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	5	27 N	23 W	445141.17	931141.94	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1982	2023	GOOD	Horz=NO Vert=YES	YES	9217	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 W 1982

IN EAGAN, AT INTERSTATE HIGHWAY 494 MILEPOINT 0.3, IN A SIDEWALK ON INTERSTATE HIGHWAY 494 BRIDGE NUMBER 9217 OVER THE MINNESOTA RIVER, BETWEEN LIGHT STANDARD AB-4 AND LIGHT STANDARD AR-5, 6.8 FEET SOUTH OF A CONCRETE RAILING, 1.3 FEET NORTH OF THE SOUTH STEEL RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	734.539	0.016	223.888	0.005	2/1	2000	00000359
NGVD29	734.352	0.016	223.831	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.586 12B = -89.580 09 = -89.481 03 = -89.344

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_W-AH4396-3W-01AUG2023.jpg	W	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_W-AH4396-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_W-AH4396-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7256.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7256.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 W 1

NGS Name: 1985 W 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4380](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u> <u>Sec</u> <u>Twp</u> <u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW 35 28 N 23 W	445146.28	930839.90	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES	19823	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 1985 W 1 1988

IN MENDOTA HEIGHTS, IN THE TOP OF A BRIDGE RAILING ON WESTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 19823 OVER INTERSTATE HIGHWAY 35 EAST, 31.0 FEET SOUTH OF WESTBOUND INTERSTATE HIGHWAY 494, 26.0 FEET WEST OF THE SOUTHEAST CORNER OF THE SOUTH RAILING ON A BRIDGE. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	879.821	0.016	268.170	0.005	2/1	2000	00000359
NGVD29	879.641	0.016	268.115	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.921 12B = -89.928 09 = -89.849 03 = -89.682

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_W_1-AH4380-3S-03OCT2011.jpg	S	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_W_1-AH4380-2-03OCT2011.jpg		Oct 3, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_W_1-AH4380-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7257.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7257.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 X

NGS Name: 1985 X

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7396](#) [Get Map](#)
NGS Quad / Sta Num : 44093113/
USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	23 W	445147.16	930835.23	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1985 X 2014

IN MENDOTA HEIGHTS, 0.65 MILE WEST ALONG WESTBOUND INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 149 (DODD ROAD) IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 70.6, 45.8 FEET NORTH OF A WESTBOUND INTERSTATE HIGHWAY 494 FOG LINE, 107.8 FEET WEST-NORTHWEST OF A SIGN POLE FOR EXIT 71 SIGN TO COUNTY ROAD 31 (PILOT KNOB ROAD), 50.0 FEET SOUTHEAST OF AN ON-RAMP FROM NORTHBOUND INTERSTATE 35E TO A WESTBOUND INTERSTATE 494 YELLOW FOG LINE AT EXIT 99 B, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.492	0.016	266.241	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.931 12B = -89.937 09 = -89.859 03 = -89.691

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 47.16436	93 08 35.23187	545002.264	242663.102	166117.022	73963.861	238.837			2015	GPS3085	
NAD83 (1996)	44 51 47.16420	93 08 35.23214	545002.245	242663.085	166117.017	73963.856	238.904	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_X-DP7396-3N-16JUL2014.jpg	N	Jul 16, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_X-DP7396-2-16JUL2014.jpg		Jul 16, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_X-DP7396-1-16JUL2014.jpg		Jul 16, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101800.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101800.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 Y

NGS Name: 1985 Y

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7397](#) [Get Map](#)
NGS Quad / Sta Num : 44093112/
USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	28 N	22 W	445147.85	930524.92	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 42 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 1985 Y 2014

IN SUNFISH LAKE, 2.0 MILES EAST ALONG EASTBOUND INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 149 IN MENDOTA HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 67.85, 85.6 FEET EAST-SOUTHEAST OF EASTBOUND INTERSTATE HIGHWAY 494, 193.7 FEET SOUTH-SOUTHWEST OF A CROSSOVER, 1.5 FEET WEST-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	943.863	0.016	287.690	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.364 12B = -90.374 09 = -90.318 03 = -90.124

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 47.85263	93 05 24.92401	558709.980	242766.473	170295.143	73995.369	260.141			2015	GPS3085	
NAD83 (1996)	44 51 47.85246	93 05 24.92430	558709.960	242766.456	170295.136	73995.364	260.215	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Y-DP7397-3SE-10AUG2023.jpg	SE	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Y-DP7397-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Y-DP7397-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101801.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101801.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 1985 Z

NGS Name: 1985 Z

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7398](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	33	28 N	22 W	445227.86	930256.95	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** 1985 Z 2014

IN INVER GROVE HEIGHTS, 0.5 MILE EAST ALONG EASTBOUND INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 52 IN INVER GROVE HEIGHTS, AT INTERSTATE HIGHWAY 494 MILEPOINT 65.6 (0.3 MILE WEST OF EXIT 65 TO SEVENTH AND FIFTH AVENUE), 53.6 FEET SOUTH OF EASTBOUND INTERSTATE HIGHWAY 494 FOG LINE, 5.8 FEET NORTH OF A RIGHT-OF-WAY FENCE, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	847.662	0.016	258.368	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.695 12B = -90.708 09 = -90.646 03 = -90.456

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 27.86276	93 02 56.95207	569355.062	246851.044	173539.770	75240.349	230.719			2015	GPS3085	
NAD83 (1996)	44 52 27.86259	93 02 56.95237	569355.040	246851.027	173539.763	75240.343	230.794	C		2015	HDTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Z-DP7398-3S-10AUG2023.jpg	S	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Z-DP7398-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/1985_Z-DP7398-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101802.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101802.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 2 ADP

NGS Name: 2 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445300.00	931008.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1950) **Stamping:** 2 ADP 1950

AT MENDOTA, 193.0 FEET EAST OF THE JUNCTION OF TRUNK HIGHWAYS 13 55 AND 100, 600.0 FEET EAST OF A MENDOTA BRIDGE OVER THE MINNESOTA RIVER, 100.0 FEET NORTH OF A STANDARD OIL STATION, 34.0 FEET NORTH OF TRUNK HIGHWAYS 55 AND 100, 31.0 FEET NORTHEAST OF AN OVERPASS OVER A RAILROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.665 12B = -89.665 09 = -89.580 03 = -89.429

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74147.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74147.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 2 ADP RESET

NGS Name: 2 ADP RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1288](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445259.00	931010.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2006	DESTROYED	Horz=NO Vert=NO	NO	19030	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	BENCH MARK DISK	MNDT

Description: (2010)

Stamping: USGS 1950 2 ADP RESET 1967

IN MENDOTA HEIGHTS, NEAR THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55, IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 55 EASTBOUND BRIDGE NUMBER 19030 OVER A RAILROAD.

Station Notes

2004 - POWER SQUADRON REPORTED THAT BRIDGE NUMBER 19030 WAS REPLACED IN 1994 BY BRIDGE NUMBER 4190.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	833.407	0.016	254.023	0.005	2/0	1991	00000025
NGVD29	833.207	0.016	253.962	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -89.662 12B = -89.662 09 = -89.577 03 = -89.429

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7258.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7258.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 2 ES

NGS Name: 2 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9112](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	6	114 N	19 W	444300.00	930812.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** 2 ES 1955

1.8 MILES SOUTH OF ROSEMOUNT, 0.3 MILE WEST ALONG COUNTY ROAD 4 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 4, 139.0 FEET SOUTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 3 AND A GRAVEL ROAD, 86.0 FEET SOUTH OF THE JUNCTION OF A GRAVEL ROAD AND A RAILROAD, 36.0 FEET EAST OF THE EAST RAIL OF A RAILROAD, 63.0 FEET WEST OF TRUNK HIGHWAY 3, 1.0 FOOT NORTHEAST OF A TELEPHONE POLE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	949.434	0.016	289.388	0.005	2/1	2004	00000449
NGVD29	949.342	0.016	289.360	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -91.499 12B = -91.489 09 = -91.430 03 = -91.224

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7259.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7259.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 2 GAF

NGS Name: 2 GAF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3402](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	113 N	17 W	443604.92	925125.96	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: (2014) **Stamping:** 2 GAF 1955 948

2.0 MILES WEST OF MIESVILLE, AT TRUNK HIGHWAY 50 MILEPOINT 25.7, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), 100.5 FEET NORTH OF TRUNK HIGHWAY 50, 46.0 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 20 EXTENDED, 72.8 FEET NORTH-NORTHEAST OF A LIGHT STANDARD, 32.8 FEET NORTH-NORTHEAST OF A TELEPHONE CABLE POST, 29.5 FEET SOUTH-SOUTHWEST OF A POWER POLE NUMBER 120, 0.6 FOOT EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	948.289	0.016	289.039	0.005	2/1	2016	00000879
NGVD29	948.213	0.016	289.016	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.561 12B = -96.555 09 = -96.483 03 = -96.348

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/2_GAF-PP3402-3W-29SEP2022.jpg	W	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/2_GAF-PP3402-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/2_GAF-PP3402-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7260.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7260.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 2 RDS

NGS Name: 2 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	27 N	23 W	445053.00	930634.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1950) **Stamping:** 2 RDS 1950

0.5 MILE SOUTH AND 4.2 MILES WEST OF INVER GROVE, 30.0 FEET NORTH OF COUNTY ROAD 10, 202.0 FEET EAST OF A PRIVATE ROAD SOUTH, 380.0 FEET EAST OF A FENCE NORTH, 49.0 FEET SOUTH OF A COTTONWOOD IN A DRAIN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.308 12B = -90.318 09 = -90.246 03 = -90.065

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_74148.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_74148.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 207 ROBERT

NGS Name: ROBERT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7522](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	8	27 N	22 W	445004.84	930506.90		C	1998	2011	DESTROYED		YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** 207 ROBERT 1998

THE STATION IS ON A KNOB BETWEEN 80TH STREET AND THE EXIT RAMP FROM WESTBOUND TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 3 NORTH, 200.0 FEET NORTH OF THE EXIT RAMP, 250.0 FEET EAST OF TRUNK HIGHWAY 3, CROSS THE DITCH AND DRIVE 475.0 FEET SOUTH ALONG THE CENTER KNOLL DIVIDING 80TH STREET FROM TRUNK HIGHWAY 3, 1.5 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.659 12B = -90.669 09 = -90.600 03 = -90.413

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 50 04. 83597	93 05 06. 89662	560038. 142	232336. 575	170699. 967	70816. 330	243. 022		2012	GPS2800
NAD83 (2007)	44 50 04. 83600	93 05 06. 89739	560038. 086	232336. 578	170699. 950	70816. 331	243. 045		2007	GPS2300
NAD83 (1996)	44 50 04. 83555	93 05 06. 89689	560038. 122	232336. 533	170699. 961	70816. 317	243. 107	C	2000	GPS1517

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROBERT-AI7522-3W-29NOV2006.jpg	W	Nov 29, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROBERT-AI7522-2-29NOV2006.jpg		Nov 29, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROBERT-AI7522-1-29NOV2006.jpg		Nov 29, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40510.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40510.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 207 ROBERT RESET

NGS Name: 207 ROBERT RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP1340](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	8	27 N	22 W	445004.84	930506.90	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** 207 ROBERT RESET 2011

IN INVER GROVE HEIGHTS, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55, 190.6 FEET EAST-SOUTHEAST OF NORTHBOUND TRUNK HIGHWAY 3, 151.6 FEET NORTH-NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55 EXIT RAMP, 110.1 FEET WEST-SOUTHWEST OF 80TH STREET, 1.4 FEET EAST OF A WITNESS POST.

Station Pair: HENRY - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.905	0.016	270.634	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.659 12B = -90.669 09 = -90.600 03 = -90.413

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 04.83585	93 05 06.89700	560038.115	232336.563	170699.959	70816.326	243.007			2015	GPS3101	
NAD83 (1996)	44 50 04.83574	93 05 06.89746	560038.081	232336.552	170699.949	70816.323	243.042	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/207_ROBERT_RESET-DP1340-3SW-04OCT2011.jpg	SW	Oct 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/207_ROBERT_RESET-DP1340-2-04OCT2011.jpg		Oct 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/207_ROBERT_RESET-DP1340-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94773.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94773.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 21 RDS

NGS Name: 21 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1336](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	15	27 N	22 W	444942.46	930128.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2020	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 5 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	BENCH MARK DISK	USGS

Description: (2010) **Stamping:** 21 RDS 1950

IN INVER GROVE HEIGHTS, 1.6 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, 750.0 FEET SOUTHWEST OF THE WHITE CITY TAVERN, 50.0 FEET WEST OF TRUNK HIGHWAY 56 AT STATION 89+50, 54.0 FEET SOUTH OF A DRIVE WEST, 32.8 FEET SOUTH-SOUTHWEST OF A POWER POLE.

Station Notes

NO SIGNAL, NOTHING IN THE AREA, THE DITCHES HAVE BEEN CUT BACK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	909.103	0.016	277.095	0.005	2/0	1991	00000025
NGVD29	908.984	0.016	277.059	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.430 12B = -91.434 09 = -91.374 03 = -91.201

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7261.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7261.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 210 WELL 9

NGS Name: WELL 9

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7523](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	31	115 N	19 W	444340.79	930847.80	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** 210 WELL 9 1999

IN ROSEMOUNT, 1.0 MILE WEST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND TRUNK HIGHWAY 3 IN ROSEMOUNT, THEN 0.25 MILE SOUTH ON SHANNON PARKWAY FROM THE JUNCTION OF COUNTY ROAD 42 AND SHANNON PARKWAY, 36.0 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF WELL HOUSE NUMBER 9, 48.0 FEET EAST OF THE CENTERLINE OF SHANNON PARKWAY, 25.0 FEET SOUTH OF A FIRE HYDRANT, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	942.242	0.016	287.196	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.217 12B = -91.210 09 = -91.148 03 = -90.941

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>						
NAD83 (2011)	44 43 40.78502	93 08 47.79328	544200.335	193401.039	165872.594	58948.755	259.409		2012	GPS2800						
NAD83 (2007)	44 43 40.78510	93 08 47.79403	544200.281	193401.047	165872.577	58948.757	259.427		2007	GPS2300						
NAD83 (1996)	44 43 40.78474	93 08 47.79339	544200.327	193401.010	165872.592	58948.746	259.480	C	2000	GPS1517						

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WELL_9-AI7523-3E-18JUL2023.jpg	E	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WELL_9-AI7523-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WELL_9-AI7523-1-18JUL2023.jpg		Jul 18, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40512.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40512.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 211 VIKING

NGS Name: VIKING

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7524](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	113 N	19 W	443447.33	930700.60		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 211 VIKING 1999

4.5 MILES SOUTH OF FARMINGTON, 3.5 MILES SOUTH FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 50 IN FARMINGTON, THE STATION IS IN A GRASS TRIANGLE WHERE COUNTY ROAD 80 AND COUNTY ROAD 51 MEET AT A SWEEPING JUNCTION WITH BISCAYNE AVENUE, 50.0 FEET SOUTH AND 120.0 FEET WEST OF BISCAYNE AVENUE, 1.6 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.156 12B = -93.176 09 = -93.120 03 = -92.936

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 34 47.32655	93 07 00.60404	552071.792	139391.726	168271.819	42486.683	266.434			2012	GPS2800	
NAD83 (2007)	44 34 47.32666	93 07 00.60474	552071.741	139391.738	168271.803	42486.687	266.457			2007	GPS2300	
NAD83 (1996)	44 34 47.32632	93 07 00.60442	552071.764	139391.703	168271.810	42486.676	266.500	C		2000	GPS1517	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VIKING-AI7524-3SE-24AUG2011.jpg	SE	Aug 24, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VIKING-AI7524-2-24AUG2011.jpg		Aug 24, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VIKING-AI7524-1-24AUG2011.jpg		Aug 24, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40513.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40513.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 211 VIKING RESET

NGS Name: VIKING RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1128](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	113 N	19 W	443447.33	930700.60	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 211 VIKING 1999 2014

4.5 MILES SOUTH OF FARMINGTON, 3.5 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, 120.0 WEST OF BISCAYNE AVENUE, 70.0 FEET SOUTH OF COUNTY ROAD 80 EXTENDED, 1.6 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	967.213	0.016	294.807	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.156 12B = -93.176 09 = -93.120 03 = -92.936

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 34 47.32666	93 07 00.60481	552071.736	139391.738	168271.802	42486.687	266.407	3	2020	GPSBM		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VIKING_RESET-DQ1128-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VIKING_RESET-DQ1128-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VIKING_RESET-DQ1128-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102739.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102739.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 212 AUDREY

NGS Name: AUDREY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7530](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	2	113 N	19 W	443657.66	930413.15		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 212 AUDREY 1999

1.0 MILE SOUTH ALONG COUNTY ROAD 72 FROM THE JUNCTION OF COUNTY ROAD 72 AND COUNTY ROAD 79 (BLAINE AVENUE), THEN 0.75 MILE WEST ALONG 230TH STREET, AT THE JUNCTION OF 230TH STREET AND AUDREY AVENUE, 45.0 FEET WEST OF AUDREY AVENUE, 21.0 FEET NORTH OF 230TH STREET, 0.5 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.510 12B = -93.514 09 = -93.458 03 = -93.274

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 57.65945	93 04 13.15086	564152.533	152624.479	171954.036	46520.034	246.985			2012	GPS2800	
NAD83 (2007)	44 36 57.65957	93 04 13.15158	564152.481	152624.490	171954.020	46520.038	247.004			2007	GPS2300	
NAD83 (1996)	44 36 57.65926	93 04 13.15146	564152.489	152624.459	171954.023	46520.028	247.049	C		2000	GPS1517	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AUDREY-AI7530-3N-23AUG2011.jpg	N	Aug 23, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AUDREY-AI7530-2-23AUG2011.jpg		Aug 23, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AUDREY-AI7530-1-23AUG2011.jpg		Aug 23, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40505.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40505.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 212 AUDREY RESET

NGS Name: AUDREY RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1046](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	2	113 N	19 W	443657.66	930413.15	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 212 AUDREY 1999 2014

4.5 MILES EAST-SOUTHEAST OF FARMINGTON, 3.05 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAYS 50 AND 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 13.75, THEN 1.0 MILE SOUTH ON ANNETTE AVENUE, THEN 0.25 MILE EAST ON 230TH STREET EAST, 45.0 FEET WEST OF AUDREY AVENUE EXTENSION, 21.0 FEET NORTH OF 230TH STREET, 0.5 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	903.797	0.016	275.478	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.510 12B = -93.514 09 = -93.458 03 = -93.274

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 57.65969	93 04 13.15132	564152.500	152624.503	171954.026	46520.042	246.966	3	2020	GPSBM		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AUDREY_RESET-DQ1046-3N-21OCT2022.jpg	N	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AUDREY_RESET-DQ1046-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AUDREY_RESET-DQ1046-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102821.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102821.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 213 PETERSON

NGS Name: PETERSON

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7525](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	113 N	17 W	443609.17	925337.30		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2011) **Stamping:** 213 PETERSON 1999

2.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 IN NEW TRIER, THEN 600.0 FEET NORTH ALONG JOAN AVENUE, AT THE TOP OF A HILL, 52.0 FEET NORTHWEST OF A POWER POLE, 18.5 FEET WEST OF THE CENTERLINE OF JOAN AVENUE, 3.8 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.079 12B = -96.069 09 = -96.010 03 = -95.863

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 09.17015	92 53 37.29815	610173.768	147902.759	185981.337	45080.851	286.909			2012	GPS2800	
NAD83 (2007)	44 36 09.17033	92 53 37.29893	610173.712	147902.777	185981.319	45080.857	286.926			2007	GPS2300	
NAD83 (1996)	44 36 09.16997	92 53 37.29852	610173.742	147902.741	185981.328	45080.846	286.975	C		2000	GPS1517	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PETERSON-AI7525-3SW-04AUG2011.jpg	SW	Aug 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PETERSON-AI7525-2-04AUG2011.jpg		Aug 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PETERSON-AI7525-1-04AUG2011.jpg		Aug 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40509.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40509.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 213 PETERSON RESET

NGS Name: PETERSON RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1063](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	7	113 N	17 W	443609.17	925337.30	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** 213 PETERSON 1999 2014

2.0 MILES EAST OF NEW TRIER, 2.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 (HOGAN AVENUE) IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 23.9, THEN 0.1 MILE NORTH ON JOAN AVENUE, 52.0 FEET NORTHWEST OF A POWER POLE, 18.5 FEET WEST OF JOAN AVENUE, 3.8 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1037.265	0.016	316.159	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.079 12B = -96.069 09 = -96.010 03 = -95.863

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 36 09.16995	92 53 37.29789	610173.787	147902.739	185981.342	45080.845	286.878	2016	GPS3148			
NAD83 (1996)	44 36 09.16997	92 53 37.29845	610173.747	147902.741	185981.330	45080.846	286.935	2016	HTRIER	C		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PETERSON_RESET-DQ1063-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PETERSON_RESET-DQ1063-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PETERSON_RESET-DQ1063-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102778.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102778.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 214 SOMMERS

NGS Name: SOMMERS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7526](#) [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	13	115 N	18 W	444548.91	925526.77		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2010	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** 214 SOMMERS 1999

2.0 MILES WEST OF HASTINGS, 1.7 MILES NORTHEAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF TRUNK HIGHWAY 55, THENCE 0.5 MILE NORTH ALONG IDELL AVENUE. THE STATION IS IN THE TIP OF A GRASS TRIANGLE WHERE IDELL AVENUE CURVES WEST TO SPRING LAKE PARK AND A DRIVEWAY TO THE NORTH, 22.0 FEET WEST OF THE CENTERLINE OF IDELL AVENUE AS IT TURNS TO THE WEST, 17.0 FEET SOUTH OF A STOP SIGN, 17.0 FEET SOUTH OF A WITNESS POST, 70.0 FEET SOUTHEAST OF A LIGHT POLE, 6.5 FEET EAST OF A WOOD DELINEATOR POST.

Station Notes
THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.678 12B = -93.691 09 = -93.658 03 = -93.468

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 48.90775	92 55 26.77089	601969.981	206576.753	183480.817	62964.720	233.391			2012	GPS2800	
NAD83 (2007)	44 45 48.90780	92 55 26.77179	601969.916	206576.758	183480.797	62964.722	233.396			2007	GPS2300	
NAD83 (1996)	44 45 48.90751	92 55 26.77133	601969.949	206576.729	183480.807	62964.713	233.486	C		2010	HNEWP	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOMMERS-AI7526-3N-02FEB2010.jpg	N	Feb 2, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOMMERS-AI7526-2-15NOV2006.jpg		Nov 15, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOMMERS-AI7526-1-02FEB2010.jpg		Feb 2, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40511.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40511.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 214 SOMMERS RESET

NGS Name: SOMMERS RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP1341](#) [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	115 N	18 W	444548.91	925526.77		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2012	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 7 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2012) **Stamping:** 214 SOMMERS 1999 2012

2.0 MILES WEST OF HASTINGS, 1.7 MILES NORTHEAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND TRUNK HIGHWAY 55, THENCE 0.5 MILE NORTH ALONG IDELL AVENUE. STATION 214 SOMMERS RESET IS IN THE TIP OF A GRASS TRIANGLE WHERE IDELL AVENUE CURVES WEST TO SPRING LAKE PARK AND A DRIVEWAY TO THE NORTH, 70.0 FEET SOUTHEAST OF A LIGHT POLE, 22.0 FEET WEST OF THE CENTERLINE OF IDELL AVENUE AS IT TURNS TO THE WEST, 6.5 FEET EAST OF A WOOD DELINEATOR POST, 17.3 FEET SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.678 12B = -93.691 09 = -93.658 03 = -93.468

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 48.90790	92 55 26.77099	601969.974	206576.768	183480.815	62964.725	233.360			2014	GPS2983	
NAD83 (1996)	44 45 48.90780	92 55 26.77158	601969.931	206576.758	183480.802	62964.722	233.404	C		2014	HDAKR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOMMERS_RESET-DP1341-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOMMERS_RESET-DP1341-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOMMERS_RESET-DP1341-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95511.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95511.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 216 JOHNSON
County: DAKOTA, MN (Sheet 1)

NGS Name: JOHNSON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	113 N	17 W	443239.88	924839.98		C

NGS ACRN: AI7531	Get Map
NGS Quad / Sta Num : 44092432/	
USGS Quad: MIESVILLE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 22 FT)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** 216 JOHNSON 1999

IN DOUGLAS TOWNSHIP, 4.0 MILES EAST ALONG 280TH STREET EAST FROM THE JUNCTION OF 280TH STREET EAST AND TRUNK HIGHWAY 20 TO THE CANNON FALLS LUTHERAN CHURCH, THEN (ON FOOT) GO NORTH THROUGH THE WINDBREAK ABOUT 300.0 FEET, STATION 216 JOHNSON IS ON DAKOTA COUNTY PARK LAND, 350.0 FEET NORTH-NORTHEAST OF A POWER POLE IN FRONT OF THE HISTORIC CHURCH BUILDING, 1.4 FEET SOUTH OF A WITNESS POST.

Station Notes

MEASURE DISTANCE AND DIRECTION TO CANNON FALLS ABOUT 5.0 MILES NORTHEAST OF CANNON FALLS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.300 12B = -97.280 09 = -97.205 03 = -97.116

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 39.87592	92 48 39.98377	631817.032	126829.382	192578.217	38657.673	253.137			2012	GPS2800	
NAD83 (2007)	44 32 39.87610	92 48 39.98467	631816.967	126829.399	192578.197	38657.678	253.160			2007	GPS2300	
NAD83 (1996)	44 32 39.87576	92 48 39.98425	631816.998	126829.365	192578.206	38657.668	253.210	C		2008	GPS2416	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JOHNSON-AI7531-3N-29SEP2022.jpg	N	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JOHNSON-AI7531-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JOHNSON-AI7531-1-13APR2020.jpg		Apr 13, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40508.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40508.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 218 BIG RIVER

NGS Name: BIG RIVER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7528](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	33	28 N	23 W	445157.63	931021.95	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1999	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	SURVEY DISK	MNDT

Description: (2004) **Stamping:** 218 BIG RIVER 1999

IN MENDOTA HEIGHTS, 0.7 MILE SOUTH ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55, 0.3 MILE NORTH OF INTERSTATE HIGHWAY 494 OVERPASS, 200.0 FEET SOUTH OF MENDOTA HEIGHTS ROAD (SIBLEY MEMORIAL HIGHWAY), 150.0 FEET WEST OF TRUNK HIGHWAY 13, NEAR THE TOP OF A GRASSY KNOLL, 3.0 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	822.318	0.016	250.643	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.708 12B = -89.708 09 = -89.616 03 = -89.475

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 51 57.63259	93 10 21.95400	537313.168	243708.349	163773.381	74282.453	223.299			2012	GPS2800	
NAD83 (2007)	44 51 57.63269	93 10 21.95477	537313.112	243708.358	163773.364	74282.456	223.321			2007	GPS2300	
NAD83 (1996)	44 51 57.63241	93 10 21.95435	537313.143	243708.330	163773.373	74282.448	223.380	C		2008	HRMSY	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BIG_RIVER-AI7528-3W-01AUG2023.jpg	W	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BIG_RIVER-AI7528-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BIG_RIVER-AI7528-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40506.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40506.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 219 ARBYS

NGS Name: ARBYS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7529](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	27 N	23 W	445001.46	930944.93		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1999	2011	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	SURVEY DISK	MNDT

Description: (2001) **Stamping:** 219 ARBYS 1999

IN EAGAN, NORTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND COUNTY ROAD 28 (YANKEE DOODLE ROAD), 75.0 FEET NORTH OF THE CORNER OF THE OVERPASS OF COUNTY ROAD 28, 5.0 FEET NORTH OF A BIKE TRAIL, 75.0 FEET NORTHWEST OF AN ENTRANCE RAMP OF NORTHBOUND INTERSTATE HIGHWAY 35 EAST FROM WESTBOUND COUNTY ROAD 28, 5.6 FEET SOUTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.951 12B = -89.954 09 = -89.875 03 = -89.705

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 01.46072	93 09 44.92518	540002.508	231947.291	164593.094	70697.676	248.869			2012	GPS2800	
NAD83 (2007)	44 50 01.46082	93 09 44.92593	540002.454	231947.301	164593.077	70697.679	248.892			2007	GPS2300	
NAD83 (1996)	44 50 01.46057	93 09 44.92531	540002.499	231947.275	164593.091	70697.671	248.954	C		2000	GPS1517	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ARBYS-AI7529-3N-20NOV2006.jpg	N	Nov 20, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ARBYS-AI7529-2-20NOV2006.jpg		Nov 20, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ARBYS-AI7529-1-20NOV2006.jpg		Nov 20, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_40504.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_40504.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 219 ARBYS RESET

NGS Name: 219 ARBYS RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP1342](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	10	27 N	23 W	445001.46	930944.92	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** 219 ARBYS RESET 2011

IN EAGAN, NORTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 28 (YANKEE DOODLE ROAD), 75.3 FEET EAST OF A LIGHT POLE WITH 4 LIGHTS, 75.0 FEET NORTHWEST OF AN ENTRANCE RAMP OF NORTHBOUND INTERSTATE HIGHWAY 35E FROM WESTBOUND COUNTY ROAD 28 (YANKEE DOODLE ROAD), 17.2 FEET NORTH OF A GUARDRAIL, 5.6 FEET SOUTH OF A WITNESS POST, 5.0 FEET NORTH OF A BIKE TRAIL.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	906.199	0.016	276.210	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.951 12B = -89.954 09 = -89.875 03 = -89.705

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 01.46127	93 09 44.92485	540002.532	231947.346	164593.101	70697.693	248.799			2015	GPS3085	
NAD83 (1996)	44 50 01.46103	93 09 44.92525	540002.503	231947.322	164593.092	70697.685	248.853	C		2015	HDTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/219_ARBYS_RESET-DP1342-3N-28SEP2011.jpg	N	Sep 28, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/219_ARBYS_RESET-DP1342-2-28SEP2011.jpg		Sep 28, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/219_ARBYS_RESET-DP1342-1-28SEP2011.jpg		Sep 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94770.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94770.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 22 RDS

NGS Name: 22 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1328](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	18	115 N	18 W	444617.55	930202.60	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2009	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2010) **Stamping:** 22 RDS 1950

IN PINE BEND, 0.5 MILE NORTH OF THE SOUTH JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, 129.0 FEET EAST OF TRUNK HIGHWAY 52, AT TRUNK HIGHWAY 52 MILEPOINT 117.9, 45.0 FEET SOUTH OF A SERVICE ROAD EAST, 8.0 FEET SOUTHWEST OF THE NORTHWEST CORNER OF A CEMETERY, 40.0 FEET EAST OF A RAILROAD, 0.4 FOOT WEST OF A WITNESS POST ON A NORTH-SOUTH FENCE LINE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	930.257	0.016	283.543	0.005	2/1	2013	00000781
NGVD29	930.120	0.016	283.501	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.981 12B = -91.965 09 = -91.919 03 = -91.762

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 46 17.55058	93 02 02.59483	573399.812	209359.250	174772.612	63812.827	255.512			2012	GPS2800	
NAD83 (2007)	44 46 17.55061	93 02 02.59594	573399.732	209359.253	174772.588	63812.828	255.529	C		2009	GPS2590	
NAD83 (1996)	44 46 17.55032	93 02 02.59542	573399.770	209359.224	174772.599	63812.819	255.584	C		2009	HINVR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/22_RDS-PP1328-3E-17MAR2009.jpg	E	Mar 17, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/22_RDS-PP1328-2-17MAR2009.jpg		Mar 17, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/22_RDS-PP1328-1-17MAR2009.jpg		Mar 17, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7262.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7262.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 251-3

NGS Name: 251-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	115 N	16 W	444316.42	924524.28		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

3.0 MILES SOUTHEAST OF PRESCOTT, 3.0 MILES SOUTHEAST ALONG TRUNK HIGHWAY 35 SOUTH (BROAD STREET/GREAT RIVER ROAD) AND ORANGE STREET IN PRESCOTT. STATION 251-3 IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 131.2 FEET BACK FROM RIVER AND OPPOSITE HEAD OF TRUDELL SLOUGH, WHICH EMPTIES INTO THE VERMILLION RIVER ON PROPERTY OF CARL T. THOMPSON AT THE WEST EDGE OF THE ROAD AND 98.4 FEET BELOW THE LOWER END OF A SMALL LAKE 3.3 FEET EAST OF A ROW OF FOUR BOX ELDER TREES AND IS IN THE YARD OF A HOUSE OCCUPIED BY FRED LIND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.077 12B = -97.090 09 = -97.040 03 = -96.844

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96903.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96903.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 251-3 BOLT

NGS Name: 251-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	115 N	16 W	444316.42	924524.28		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

3.0 MILES SOUTHEAST OF PRESCOTT, 3.0 MILES SOUTHEAST ALONG TRUNK HIGHWAY 35 SOUTH (BROAD STREET/GREAT RIVER ROAD) AND ORANGE STREET IN PRESCOTT, STATION 251-3 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 131.2 FEET BACK FROM THE RIVER AND OPPOSITE HEAD OF TRUDELL SLOUGH, WHICH EMPTIES INTO THE VERMILLION RIVER ON THE PROPERTY OF CARL T. THOMPSON AT THE WEST EDGE OF THE ROAD AND 98.4 FEET BELOW LOWER END OF SMALL LAKE 3.3 FEET EAST OF A ROW OF FOUR BOX ELDER TREES AND IS IN THE YARD OF A HOUSE OCCUPIED BY FRED LIND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.077 12B = -97.090 09 = -97.040 03 = -96.844

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96904.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96904.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 251-4

NGS Name: 251-4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	114 N	16 W	444255.83	924600.84		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

4.2 MILES SOUTHEAST OF HASTINGS, 1.3 MILES EAST ALONG 10TH STREET EAST FROM THE JUNCTION OF 10TH STREET EAST AND 11TH STREET WEST IN HASTINGS, THEN 3.2 MILES SOUTHEAST ALONG COUNTY ROAD 54 (RAVENNA TRAIL). STATION 251-4 IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, ON THE PROPERTY OF EDWARD MORRIS IN THE WOODS, 23.0 FEET SOUTH OF THE TOP OF A BANK OF A LARGE SWAMP (SWAMP IS OVERGROWN WITH WILLOWS) ON THE HIGHEST POINT OF A RIDGE RUNNING EAST AND WEST AND PARALLEL TO THE SWAMP, 144.4 FEET EAST OF A NORTH AND A SOUTH WIRE FENCE AND 590.5 FEET DUE NORTH OF A VERY PROMINENT BEND IN THE VERMILION RIVER. TOP OF PIPE IS 11.0 INCHES ABOVE THE GROUND SURFACE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.998 12B = -97.011 09 = -96.952 03 = -96.765

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96905.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96905.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 251-4 BOLT

NGS Name: 251-4 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	114 N	16 W	444255.83	924600.84		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

4.2 MILES SOUTHEAST OF HASTINGS, 1.3 MILES EAST ALONG 10TH STREET EAST FROM THE JUNCTION OF 10TH STREET EAST AND 11TH STREET WEST IN HASTINGS, THEN 3.2 MILES SOUTHEAST ALONG COUNTY ROAD 54 (RAVENNA TRAIL). STATION 251-4 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, ON THE PROPERTY OF EDWARD MORRIS IN THE WOODS 23.0 FEET SOUTH OF TOP OF A BANK OF A LARGE SWAMP (SWAMP IS OVERGROWN WITH WILLOWS) ON THE HIGHEST POINT OF A RIDGE RUNNING EAST AND WEST AND PARALLEL TO THE SWAMP 144.4 FEET EAST OF A NORTH AND A SOUTH WIRE FENCE AND 590.5 FEET DUE NORTH OF A VERY PROMINENT BEND IN THE VERMILION RIVER. TOP OF PIPE IS 11.0 INCHES ABOVE THE GROUND SURFACE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.998 12B = -97.011 09 = -96.952 03 = -96.765

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96906.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96906.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 252-3

NGS Name: 252-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	115 N	17 W	444436.01	924839.89		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	BURIED	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

2.0 MILES EAST-NORTHEAST OF HASTINGS, 0.6 MILE NORTH ALONG VERMILLION STREET FROM THE JUNCTION OF VERMILLION AND 11TH STREET WEST IN HASTINGS, THEN 0.3 MILE EAST ALONG THIRD STREET EAST, THEN 0.1 MILE NORTH ALONG LEA STREET, THEN 0.4 MILE EAST ALONG FIRST STREET EAST, THEN 0.2 MILE EAST ALONG CLAY STREET, THEN 0.2 MILE EAST ALONG THIRD STREET EAST, THEN 430.0 FEET SOUTH ALONG LOCUST STREET, THEN 1.1 MILES EAST ALONG FOURTH STREET EAST. STATION 252-3 IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 131.2 FEET BACK FROM BANK OF CHUTE AND 492.1 FEET BELOW HEAD OF PRESCOTT ISLAND ON PROPERTY OF ERNEST BERANEK, 534.8 FEET BELOW HIS HOUSE 6.6 FEET EAST OF THE TOP OF A BANK OF A SMALL DEPRESSION RUNNING NEARLY PARALLEL TO THE RIVER AT THE WEST EDGE OF TIMBER AND AT THE EAST EDGE OF A CULTIVATED FIELD. TWO PROMINENT ELM TREES STAND IN A FIELD 196.9 FEET WEST OF B. M. TOP OF PIPE IS 8.0 INCHES ABOVE GROUND SURFACE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.043 12B = -96.043 09 = -95.994 03 = -95.820

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96893.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96893.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 252-3 BOLT

NGS Name: 252-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	25	115 N	17 W	444436.01	924839.89		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	BURIED	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

2.0 MILES EAST-NORTHEAST OF HASTINGS, 0.6 MILE NORTH ALONG VERMILLION STREET FROM THE JUNCTION OF VERMILLION AND 11TH STREET WEST IN HASTINGS, THEN 0.3 MILE EAST ALONG THIRD STREET EAST, THEN 0.1 MILE NORTH ALONG LEA STREET, THEN 0.4 MILE EAST ALONG FIRST STREET EAST, THEN 0.2 MILE EAST ALONG CLAY STREET, THEN 0.2 MILE EAST ALONG THIRD STREET EAST, THEN 430.0 FEET SOUTH ALONG LOCUST STREET, THEN 1.1 MILES EAST ALONG FOURTH STREET EAST. STATION 252-3 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 131.2 FEET BACK FROM BANK OF CHUTE AND 492.1 FEET BELOW HEAD OF PRESCOTT ISLAND ON PROPERTY OF ERNEST BERANEK, 534.8 FEET BELOW HIS HOUSE 6.6 FEET EAST OF THE TOP OF A BANK OF A SMALL DEPRESSION RUNNING NEARLY PARALLEL TO THE RIVER AT THE WEST EDGE OF TIMBER AND AT THE EAST EDGE OF A CULTIVATED FIELD. TWO PROMINENT ELM TREES STAND IN A FIELD 196.9 FEET WEST OF B. M. TOP OF PIPE IS 8.0 INCH DIAMETER ABOVE GROUND SURFACE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.043 12B = -96.043 09 = -95.994 03 = -95.820

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96894.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96894.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 252-4

NGS Name: 252-4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	115 N	17 W	444424.12	924913.46		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

1.5 MILES EAST-NORTHEAST OF HASTINGS, 0.6 MILE NORTH ALONG VERMILLION STREET FROM THE JUNCTION OF VERMILLION STREET AND 11TH STREET WEST IN HASTINGS, THEN 0.3 MILE EAST ALONG THIRD STREET EAST, THEN 0.1 MILE NORTH ALONG LEA STREET, THEN 0.4 MILE EAST ALONG FIRST STREET EAST, THEN 0.2 MILE SOUTH ALONG CLAY STREET, THEN 0.2 MILE EAST ALONG THIRD STREET EAST, THEN 430.0 FEET SOUTH ALONG LOCUST STREET, THEN 1.0 MILE EAST AND SOUTH ALONG FOURTH STREET. STATION 252-4 IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, IN A PASTURE ON A TERRACE, 164.0 FEET BACK FROM RIVER EDGE OF TERRACE, 2788.7 FEET BACK FROM RIVERBANK, 689.0 FEET SOUTH OF A ROAD RUNNING WEST FROM A RIVER, 656.2 FEET EAST OF A NORTH AND SOUTH ROAD AND 3.3 FEET EAST OF A NORTH AND SOUTH WIRE FENCE. A NEW PIPE WAS SET OVER THE TILE IN 1924.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.928 12B = -95.925 09 = -95.876 03 = -95.699

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96895.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96895.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 252-4 BOLT

NGS Name: 252-4 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	115 N	17 W	444424.12	924913.46		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

1.5 MILES EAST-NORTHEAST OF HASTINGS, 0.6 MILE NORTH ALONG VERMILLION STREET FROM THE JUNCTION OF VERMILLION STREET AND 11TH STREET WEST IN HASTINGS, THEN 0.3 MILE EAST ALONG THIRD STREET EAST, THEN 0.1 MILE NORTH ALONG LEA STREET, THEN 0.4 MILE EAST ALONG FIRST STREET EAST, THEN 0.2 MILE SOUTH ALONG CLAY STREET, THEN 0.2 MILE EAST ALONG THIRD STREET EAST, THEN 430.0 FEET SOUTH ALONG LOCUST STREET, THEN 1.0 MILE EAST AND SOUTH ALONG FOURTH STREET. STATION 252-4 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, IN A PASTURE ON A TERRACE, 164.0 FEET BACK FROM THE RIVER EDGE OF A TERRACE 2788.7 FEET BACK FROM THE RIVERBANK 689.0 FEET SOUTH OF A ROAD RUNNING WEST FROM THE RIVER 656.2 FEET EAST OF A NORTH AND SOUTH ROAD AND 3.3 FEET EAST OF A NORTH AND SOUTH WIRE FENCE. A NEW PIPE WAS SET OVER A TILE IN 1924.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.928 12B = -95.925 09 = -95.876 03 = -95.699

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96896.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96896.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 253-3

NGS Name: 253-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092442/
 USGS Quad: PRESCOTT

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	115 N	17 W	444512.14	925138.51		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (2019)

Stamping:

1.8 MILES NORTH-NORTHWEST OF HASTINGS, 0.6 MILE NORTH ALONG VERMILLION STREET FROM THE JUNCTION OF VERMILLION STREET AND 11TH STREET WEST IN HASTINGS, THEN 126.0 FEET NORTH ALONG THIRD STREET EAST, THEN 404.0 FEET NORTHEAST ALONG SECOND STREET EAST, THEN 0.1 MILE WEST ALONG SECOND STREET EAST, THEN 1.0 MILE NORTH-NORTHWEST ALONG LOCK AND DAM ROAD. STATION 253-3 IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, IN THE OPEN GROUND 52.5 FEET BACK OF THE RIVERBANK AT HEAD OF MUD BAR 492.1 FEET BELOW SMALL CLUMP OF WILLOWS ON BANK OPPOSITE A POINT 328.1 FEET BELOW A SIGNAL TOWER ON THE CHICAGO, MILWAUKEE AND ST. PAUL RAILWAY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.983 12B = -95.003 09 = -94.977 03 = -94.764

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96887.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96887.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 253-3 BOLT

NGS Name: 253-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092442/
 USGS Quad: PRESCOTT

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	115 N	17 W	444512.14	925138.51		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

1.8 MILES NORTH-NORTHWEST OF HASTINGS, 0.6 MILE NORTH ALONG VERMILLION STREET FROM THE JUNCTION OF VERMILLION STREET AND 11TH STREET WEST IN HASTINGS, THEN 126.0 FEET NORTH ALONG THIRD STREET EAST, THEN 404.0 FEET NORTHEAST ALONG SECOND STREET EAST, THEN 0.1 MILE WEST ALONG SECOND STREET EAST, THEN 1.0 MILE NORTH-NORTHWEST ALONG LOCK AND DAM ROAD. STATION 253-3 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, IN THE OPEN GROUND 52.5 FEET BACK OF THE RIVERBANK AT HEAD OF MUD BAR 492.1 FEET BELOW SMALL CLUMP OF WILLOWS ON BANK OPPOSITE A POINT 328.1 FEET BELOW A SIGNAL TOWER ON THE CHICAGO, MILWAUKEE AND ST. PAUL RAILWAY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.983 12B = -95.003 09 = -94.977 03 = -94.764

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96888.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96888.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 253-4

NGS Name: 253-4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	115 N	17 W	444453.97	925203.91		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

IN HASTINGS, 0.2 MILE WEST-NORTHWEST ALONG 11TH STREET WEST FROM THE JUNCTION OF 11TH STREET WEST AND TRUNK HIGHWAY 61 IN HASTINGS, THEN 0.3 MILE WEST-NORTHWEST ALONG EIGHTH STREET WEST, THEN 0.4 MILE NORTH ALONG PINE STREET, THEN 0.1 MILE WEST ALONG SECOND STREET WEST, THEN 0.3 MILE NORTHWEST ALONG COUNTY ROAD 42 (NININGER ROAD). STATION 253-4 IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, ON THE NORTH SIDE OF A BLUFF AND 3.3 FEET SOUTH OF A WIRE FENCE AND 49.2 FEET BACK FROM A SLOUGH 656.2 FEET ABOVE WAGON, BRIDGE CROSSING SLOUGH 26.2 FEET DOWN RIVER FROM LINE FENCE PROLONGED AND 0.8 MILE ABOVE WAGON BRIDGE AT HASTINGS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.924 12B = -94.944 09 = -94.918 03 = -94.708

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96889.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96889.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 253-4 BOLT

NGS Name: 253-4 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	115 N	17 W	444453.97	925203.91		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

IN HASTINGS, 0.2 MILE WEST-NORTHWEST ALONG 11TH STREET WEST FROM THE JUNCTION OF 11TH STREET WEST AND TRUNK HIGHWAY 61 IN HASTINGS, THEN 0.3 MILE WEST-NORTHWEST ALONG EIGHTH STREET WEST, THEN 0.4 MILE NORTH ALONG PINE STREET, THEN 0.1 MILE WEST ALONG SECOND STREET WEST, THEN 0.3 MILE NORTHWEST ALONG COUNTY ROAD 42 (NININGER ROAD). STATION 253-4 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, ON THE NORTH SIDE OF A BLUFF AND 3.3 FEET SOUTH OF A WIRE FENCE AND 49.2 FEET BACK FROM A SLOUGH 656.2 FEET ABOVE WAGON, BRIDGE CROSSING SLOUGH 26.2 FEET DOWN RIVER FROM LINE FENCE PROLONGED AND 0.8 MILE ABOVE WAGON BRIDGE AT HASTINGS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.924 12B = -94.944 09 = -94.918 03 = -94.708

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96890.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96890.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 254-3

NGS Name: 254-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	115 N	17 W	444620.40	925407.96		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	2023	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

4.0 MILES NORTHWEST OF HASTINGS, 0.2 MILE WEST-NORTHWEST ALONG 11TH STREET WEST FROM THE JUNCTION OF 11TH STREET WEST AND TRUNK HIGHWAY 61 IN HASTINGS. THEN 0.3 MILE WEST-NORTHWEST ALONG EIGHTH STREET WEST, THEN 0.4 MILE NORTH ALONG PINE STREET, THEN 0.1 MILE WEST ALONG SECOND STREET WEST, THEN 1.1 MILES NORTHWEST ALONG COUNTY ROAD 42 (NININGER ROAD), THEN 0.2 MILE NORTHWEST ALONG COUNTY ROAD 87 (LOCK BOULEVARD), THEN 85.0 FEET WEST ALONG COUNTY ROAD 87 (LOCK BOULEVARD), THEN 1.1 MILES NORTHWEST ALONG COUNTY ROAD 87 (LOCK BOULEVARD), THEN 0.4 MILE NORTH ALONG JASON AVENUE. STATION 254-3 IS A TILE AND PIPE ON THE RIGHT BANK OF MISSISSIPPI RIVER, AT FOOT OF BLUFF 39.4 FEET UPSTREAM FROM WEST LINE OF THE ROAD WHICH RUNS FROM RIVER UP THROUGH NININGER, MINN. 32.8 FEET DOWNSTREAM FROM A COVE IN PERPENDICULAR CLIFF.

Station Notes

NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.934 12B = -93.960 09 = -93.924 03 = -93.710

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96882.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96882.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 254-3 BOLT

NGS Name: 254-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	18	115 N	17 W	444620.40	925407.96		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	2023	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

4.0 MILES NORTHWEST OF HASTINGS, 0.2 MILE WEST-NORTHWEST ALONG 11TH STREET WEST FROM THE JUNCTION OF 11TH STREET WEST AND TRUNK HIGHWAY 61 IN HASTINGS. THEN 0.3 MILE WEST-NORTHWEST ALONG EIGHTH STREET WEST, THEN 0.4 MILE NORTH ALONG PINE STREET, THEN 0.1 MILE WEST ALONG SECOND STREET WEST, THEN 1.1 MILES NORTHWEST ALONG COUNTY ROAD 42 (NININGER ROAD), THEN 0.2 MILE NORTHWEST ALONG COUNTY ROAD 87 (LOCK BOULEVARD), THEN 85.0 FEET WEST ALONG COUNTY ROAD 87 (LOCK BOULEVARD), THEN 1.1 MILES NORTHWEST ALONG COUNTY ROAD 87 (LOCK BOULEVARD), THEN 0.4 MILE NORTH ALONG JASON AVENUE. STATION 254-3 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF MISSISSIPPI RIVER, AT FOOT OF BLUFF 39.4 FEET UPSTREAM FROM WEST LINE OF THE ROAD WHICH RUNS FROM RIVER UP THROUGH NININGER, MINN. 32.8 FEET DOWNSTREAM FROM A COVE IN PERPENDICULAR CLIFF.

Station Notes

NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.934 12B = -93.960 09 = -93.924 03 = -93.710

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96883.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96883.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 255-3

NGS Name: 255-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	115 N	18 W	444601.42	925746.94		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	2023	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

6.8 MILES SOUTH-SOUTHWEST OF COTTAGE GROVE, 0.4 MILE SOUTHWEST ALONG HYDE AVENUE SOUTH FROM THE JUNCTION OF HYDE AVENUE SOUTH AND HILO TRAIL SOUTH IN COTTAGE GROVE, THEN 0.9 MILE SOUTHEAST ALONG EAST POINT DOUGLAS ROAD, THEN 1.0 MILE SOUTH ALONG JAMAICA AVENUE SOUTH, THEN 1.4 MILES SOUTH ALONG 100TH STREET SOUTH, THEN 0.2 MILE SOUTH ALONG HADLEY AVENUE SOUTH/WASHINGTON COUNTY ROAD 39, THEN 0.5 MILE WEST ALONG 103RD STREET SOUTH, THEN 2.5 MILES SOUTHWEST AND SOUTHEAST ALONG GREY CLOUD TRAIL SOUTH. STATION 255-3 IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER IN HEAVY ELM AND MAPLE TIMBER 121.4 FEET FROM A RIVERBANK 1968.5 FEET ABOVE HEAD OF BOULANGER SLOUGH 328.1 FEET ABOVE UNITED STATES LIGHT NUMBER 1013 OPPOSITE A POINT 328.1 FEET ABOVE DAM NUMBER 10 ON A NARROW RIDGE RUNNING PARALLEL TO THE RIVER.

Station Notes

NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.048 12B = -93.038 09 = -92.976 03 = -92.838

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96876.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96876.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 255-3 BOLT

NGS Name: 255-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	115 N	18 W	444601.42	925746.94		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	2023	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

6.8 MILES SOUTH-SOUTHWEST OF COTTAGE GROVE, 0.4 MILE SOUTHWEST ALONG HYDE AVENUE SOUTH FROM THE JUNCTION OF HYDE AVENUE SOUTH AND HILO TRAIL SOUTH IN COTTAGE GROVE, THEN 0.9 MILE SOUTHEAST ALONG EAST POINT DOUGLAS ROAD, THEN 1.0 MILE SOUTH ALONG JAMAICA AVENUE SOUTH, THEN 1.4 MILES SOUTH ALONG 100TH STREET SOUTH, THEN 0.2 MILE SOUTH ALONG HADLEY AVENUE SOUTH/WASHINGTON COUNTY ROAD 39, THEN 0.5 MILE WEST ALONG 103RD STREET SOUTH, THEN 2.5 MILES SOUTHWEST AND SOUTHEAST ALONG GREY CLOUD TRAIL SOUTH. STATION 255-3 BOLT IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER IN HEAVY ELM AND MAPLE TIMBER 121.4 FEET FROM THE RIVERBANK 1968.5 FEET ABOVE HEAD OF BOULANGER SLOUGH 328.1 FEET ABOVE UNITED STATES LIGHT NUMBER 1013 OPPOSITE A POINT 328.1 FEET ABOVE DAM NUMBER 10 ON A NARROW RIDGE RUNNING PARALLEL TO THE RIVER.

Station Notes

NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.048 12B = -93.038 09 = -92.976 03 = -92.838

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96877.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96877.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 256 3

NGS Name: 256 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	27 N	22 W	444644.70	930114.50		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1929	2023	NOT FOUND	Horz=NO Vert=NO	YES		PROJECTS 12 IN.	MARK IS STEEL PIPE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 0.19 MILE BELOW PINE BEND LANDING, 16.4 FEET BACK OF HIGHEST POINT OF A BANK, 328.0 BELOW ROCK FOUNDATION RUINS, 525.0 FEET BELOW A SMALL STREAM.

Station Notes

SEARCHED ALONG THE RIVER AND FOUND A PIPE, NOT SURE IF THIS WHAT WE WERE SUPPOSED TO FIND, 50.0 FEET NORTH OF RED BRICK STRUCTURE, 10.0 FEET FROM THE SHORE OF THE RIVER, NEXT TIME; USE A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.080 12B = -92.063 09 = -92.001 03 = -91.860

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/256_3-3E-04DEC2006.jpg	E	Dec 4, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/256_3-1-04DEC2006.jpg		Dec 4, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7263.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7263.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 256 3 BOLT

NGS Name: 256 3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	27 N	22 W	444644.70	930114.50		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1929	2023	GOOD	Horz=YES Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 984.3 FEET BELOW PINE BEND LANDING, 16.4 FEET BACK OF THE HIGHEST POINT OF A BANK, 328.0 FEET BELOW A ROCK FOUNDATION RUINS, 525.0 FEET BELOW A SMALL STREAM.

Station Notes

SEARCHED ALONG THE RIVER AND FOUND A PIPE, NOT SURE IF THIS WHAT WE WERE SUPPOSED TO FIND, 50.0 FEET NORTH OF RED BRICK STRUCTURE, 10.0 FEET FROM SHORE OF RIVER, NEXT TIME; USE A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.080 12B = -92.063 09 = -92.001 03 = -91.860

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96722.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96722.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 257-3

NGS Name: 257-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	27 N	22 W	444906.00	930048.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	SEE DESCRIPTION	MRC

Description: (1912)

Stamping:

3.0 MILES BELOW NEWPORT, AT GREY CLOUD SLOUGH, ON THE RIGHT BANK OF THE MISSISSIPPI RIVER BACK FROM WILLOW TOWHEAD, 65.7 FEET FROM A SLOUGH, IN A TIMBER, 13.4 FEET BELOW A DAM.

Station Notes

NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.706 12B = -91.696 09 = -91.634 03 = -91.470

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7264.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7264.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 257-3 BOLT

NGS Name: 257-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	27 N	22 W	444906.00	930048.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	NOT FOUND	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

3.0 MILES BELOW NEWPORT, AT GREY CLOUD SLOUGH, ON THE RIGHT BANK OF THE MISSISSIPPI RIVER BACK FROM WILLOW TOWHEAD, 65.7 FEET FROM A SLOUGH, IN TIMBER, 16.4 FEET BELOW A DAM.

Station Notes

NOT LOCATED, THE TIES FALL ALONG THE RIVER IN WOODED AREA.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.706 12B = -91.696 09 = -91.634 03 = -91.470

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96720.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96720.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 257-4

NGS Name: 257-4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	27 N	22 W	444902.00	930055.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	SEE DESCRIPTION	MRC

Description: (1912)

Stamping:

3.0 MILES BELOW NEWPORT, AT HEAD OF GREY CLOUD SLOUGH, 0.3 MILE BACK OF STATION 257-3 AND A SLOUGH, 0.1 MILE ABOVE THE LOWER END OF A SLOUGH, BETWEEN A SLOUGH AND WAGON ROAD, 0.1 MILE EAST OF A RAILROAD.

Station Notes

NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.693 12B = -91.683 09 = -91.621 03 = -91.457

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7265.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7265.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 257-4 BOLT

NGS Name: 257-4 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	27 N	22 W	444902.00	930055.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

3.0 MILES BELOW NEWPORT, AT THE HEAD OF GREY CLOUD SLOUGH, 0.3 MILE BACK OF STATION 257-3 AND A SLOUGH, 0.1 MILE ABOVE THE LOWER END OF A SLOUGH, BETWEEN A SLOUGH AND WAGON ROAD, 0.1 MILE EAST OF A RAILROAD.

Station Notes

NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.693 12B = -91.683 09 = -91.621 03 = -91.457

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96721.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96721.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 258-4

NGS Name: 258 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1483](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	27 N	22 W	445128.00	930112.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1895	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (2006) **Stamping:** USCE 258-4 1895

STATION 258-4 IS LOCATED IN INVER GROVE, GO 148.0 FEET NORTH ALONG A RAILROAD FROM THE RAILROAD STATION, ON THE WEST SIDE OF THE TRACKS. STATION 258-4 IS A CAP ON AN IRON PIPE 50.0 FEET WEST OF THE TRACKS, 60.0 FEET NORTH OF THE NORTH END OF FILL NEAR THE EAST END OF A LARGE BILLBOARD.

Station Notes
THE TIES FALL IN THE AREA OF A HOLIDAY GAS STATION, NOTHING TO FIND.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	713.191	0.016	217.381	0.005	2/0	1991	00000025
NGVD29	713.069	0.016	217.344	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.191 12B = -91.201 09 = -91.125 03 = -90.945

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7267.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7267.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 258-4 BOLT

NGS Name: 258 4 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	27 N	22 W	445128.00	930112.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

STATION 258-4 BOLT IS LOCATED IN INVER GROVE, GO 148.0 FEET NORTH ALONG A RAILROAD FROM THE RAILROAD STATION, ON THE WEST SIDE OF THE TRACKS. STATION 258-4 BOLT IS A CAP ON AN IRON PIPE 50.0 FEET WEST OF THE TRACKS, 60.0 FEET NORTH OF THE NORTH END OF FILL NEAR THE EAST END OF A LARGE BILLBOARD.

Station Notes

THE TIES FALL IN THE AREA OF A HOLIDAY GAS STATION, NOTHING TO FIND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.191 12B = -91.201 09 = -91.125 03 = -90.945

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96715.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96715.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 259-3

NGS Name: 259-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	28 N	22 W	445348.00	930200.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (TILE OR CLAY) FILLED WITH CONCRETE	SEE DESCRIPTION	MRC

Description: (2006)

Stamping:

ON THE RIGHT BANK OF THE MISSISSIPPI RIVER IN SOUTH ST. PAUL, 0.1 MILE FROM THE RIVERBANK, 213.3 FEET ABOVE SWIFT COUNTY PLANT, 98.4 FEET EAST OF A STREET, 44.1 FEET WEST OF THE WEST RAILROAD TRACK, IN THE FRONT OF HOUSE NUMBER 359, 98.4 FEET ABOVE A CHURCH ON A HILL, 44.1 FEET FROM A BUILDING, 91.2 FEET BELOW A BLOCK BUILDING.

Station Notes

THE AREA HAS BEEN DEVELOPED INTO COMMERCIAL BUILDINGS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.715 12B = -90.725 09 = -90.643 03 = -90.469

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7268.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7268.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 259-3 BOLT

NGS Name: 259-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	28 N	22 W	445348.00	930200.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	DESTROYED	Horz=NO Vert=YES	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

ON THE RIGHT BANK OF THE MISSISSIPPI RIVER IN SOUTH ST. PAUL, 0.1 MILE FROM A RIVERBANK, 213.3 FEET ABOVE SWIFT COUNTY PLANT, 98.4 FEET EAST OF A STREET, 44.1 FEET WEST OF THE WEST RAILROAD TRACK, IN THE FRONT OF HOUSE NUMBER 359, 98.4 FEET ABOVE A CHURCH ON A HILL, 44.1 FEET FROM A BUILDING, 91.2 FEET BELOW A BLOCK BUILDING.

Station Notes

THE AREA HAS BEEN DEVELOPED INTO COMMERCIAL BUILDINGS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.715 12B = -90.725 09 = -90.643 03 = -90.469

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96710.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96710.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 259-C

NGS Name: 259-C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	28 N	22 W	445349.30	930204.73		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	2023	NOT FOUND	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

IN SOUTH ST. PAUL, 0.1 MILE EAST-NORTHEAST ALONG COUNTY ROAD 14 (GRAND AVENUE WEST) FROM THE JUNCTION OF COUNTY ROAD 14 (GRAND AVENUE WEST) AND VETERAN'S MEMORIAL DRIVE IN SOUTH ST. PAUL, THEN 0.3 MILE NORTH-NORTHWEST ALONG CONCORD STREET NORTH, THEN 0.1 MILE EAST-NORTHEAST ALONG HARDMAN AVENUE NORTH. STATION 259-C IS A CONCRETE SLAB AND IRON PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, ON TOP OF A LEVEE 6.6 FEET WEST OF THE WEST RAIL OF THE RAILROAD TRACK 32.8 FEET DOWNSTREAM FROM UPPER END OF A CONCRETE RETAINING WALL AND 3.3 FEET FROM THE WEST FACE OF A SAME WALL ABOUT 39.4 FEET FROM THE WATER'S EDGE OF A RIVER 173.9 FEET ABOVE THE UPSTREAM FACE OF AN ICE CHUTE OVER THE RAILROAD TRACKS, THE ICE CHUTE IS IN FRONT OF THE UPPER LARGE ICE HOUSE BELONGING TO SWIFEET AND CO. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.699 12B = -90.708 09 = -90.630 03 = -90.453

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96854.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96854.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 259-C BOLT

NGS Name: 259-C BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>			
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	22	28 N	22 W	445349.30	930204.73		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	2023	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	MRC

Description: (1929)

Stamping:

IN SOUTH ST. PAUL, 0.1 MILE EAST-NORTHEAST ALONG COUNTY ROAD 14 (GRAND AVENUE WEST) FROM THE JUNCTION OF COUNTY ROAD 14 (GRAND AVENUE WEST) AND VETERAN'S MEMORIAL DRIVE IN SOUTH ST. PAUL, THEN 0.3 MILE NORTH-NORTHWEST ALONG CONCORD STREET NORTH, THEN 0.1 MILE EAST-NORTHEAST ALONG HARDMAN AVENUE NORTH. STATION 259-C BOLT IS A CONCRETE SLAB AND IRON PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, ON TOP OF A LEVEE 6.6 FEET WEST OF THE WEST RAIL OF THE RAILROAD TRACK 32.8 FEET DOWNSTREAM FROM UPPER END OF A CONCRETE RETAINING WALL AND 3.3 FEET FROM THE WEST FACE OF A SAME WALL ABOUT 39.4 FEET FROM THE WATER'S EDGE OF A RIVER 173.9 FEET ABOVE THE UPSTREAM FACE OF AN ICE CHUTE OVER THE RAILROAD TRACKS, THE ICE CHUTE IS IN FRONT OF THE UPPER LARGE ICE HOUSE BELONGING TO SWIFEET AND CO. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.699 12B = -90.708 09 = -90.630 03 = -90.453

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96856.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96856.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 262-3

NGS Name: 262-3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	28 N	23 W	445355.00	930845.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	SEE DESCRIPTION	USGS

Description: (1929)

Stamping:

ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 0.25 MILE BELOW THE LOWER END OF PIKE ISLAND, 98.42 FEET BELOW SPRING, 65.7 FEET BELOW A RAILROAD AND A PATH, 328.0 FEET BELOW A CULVERT, 13.1 FEET BACK FROM THE RIVER.

Station Notes

THE BANK OF THE RIVER HAS WASHED AWAY, THE TIES NOW FALL IN THE WATER CLOSE TO A BANK. NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.770 12B = -89.767 09 = -89.688 03 = -89.524

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7269.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7269.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 262-3 BOLT

NGS Name: 262-3 BOLT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	28 N	23 W	445355.00	930845.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1912	2023	GOOD	Horz=NO Vert=YES	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	BOLT	USGS

Description: (1929)

Stamping:

ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 0.25 MILE BELOW THE LOWER END OF PIKE ISLAND, 98.42 FEET BELOW A SPRING, 65.7 FEET BELOW A RAILROAD AND A PATH, 328.0 FEET BELOW A CULVERT, 13.1 FEET BACK FROM A RIVER.

Station Notes

THE BANK OF A RIVER HAS WASHED AWAY, THE TIES NOW FALL IN THE WATER CLOSE TO A BANK. NEED A BOAT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.770 12B = -89.767 09 = -89.688 03 = -89.524

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96705.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96705.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 2785 LL

NGS Name: 2785 LL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4395](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	5	27 N	23 W	445143.00	931148.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1982	2011	DESTROYED	Horz=NO Vert=NO	NO	9217	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	VERTICAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** 2785 LL 1982

IN EAGAN, IN A WALKWAY AT THE EAST END OF EASTBOUND INTERSTATE HIGHWAY 494 BRIDGE NUMBER 9217 OVER THE MINNESOTA RIVER, AT INTERSTATE HIGHWAY 494 MILEPOINT 0.45, MIDWAY BETWEEN LIGHT STANDARD AR-7 AND AR-8, 7.0 FEET SOUTH OF A CONCRETE RAILING, 1.0 FOOT NORTH OF THE SOUTH STEEL RAILING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	748.286	0.016	228.078	0.005	2/1	2000	00000359
NGVD29	748.102	0.016	228.022	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.570 12B = -89.563 09 = -89.465 03 = -89.327

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_10791.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_10791.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 3 ES

NGS Name: 3 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	113 N	19 W	443612.00	930811.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1992) **Stamping:** 3 ES 1955

1.9 MILES SOUTH OF FARMINGTON, 1.9 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50, 570.0 FEET NORTH OF COUNTY ROAD 78, 53.0 FEET EAST OF TRUNK HIGHWAY 3, 12.0 FEET SOUTH OF AN ENTRANCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.749 12B = -92.766 09 = -92.716 03 = -92.513

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7270.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7270.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 3 ES RM 1

NGS Name: 3 ES RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	113 N	19 W	443606.00	930810.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	PIPE CAP	USGS

Description: (2011)

Stamping: 76.6 FT SW. TO SEC COR

2.0 MILES SOUTH OF FARMINGTON, 2.0 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3, 523.0 FEET SOUTH OF STATION 3 ES, 47.0 FEET NORTH OF COUNTY ROAD 78.

Station Notes

SEARCHED AREA AND PRESUMED DESTROYED IN CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.766 12B = -92.782 09 = -92.733 03 = -92.529

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73884.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73884.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 3 GAF

NGS Name: 3 GAF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1076](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	5	113 N	17 W	443740.88	925224.48	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: (2014) **Stamping:** 3 GAF 1955 883

3.6 MILES NORTHWEST OF MIESVILLE, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAYS 61 AND 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), THEN 1.0 MILE WEST ON 220TH STREET EAST, THEN 0.15 MILE SOUTH ON KIRBY AVENUE, 510.0 FEET NORTH OF DRIVEWAY NUMBER 22240 EAST, 24.0 FEET WEST OF KIRBY AVENUE, 12.0 FEET SOUTH OF A FIELD ENTRANCE, 2.0 FEET NORTHWEST OF 12.0 INCH DIAMETER WOOD POST, 0.4 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	882.626	0.016	269.025	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.201 12B = -96.194 09 = -96.122 03 = -95.971

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/3_GAF-DQ1076-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/3_GAF-DQ1076-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/3_GAF-DQ1076-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7271.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7271.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 3 R

NGS Name: 3 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445308.00	931001.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2006	DESTROYED	Horz=NO Vert=NO	NO	RR	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	USACE

Description: (2010)

Stamping:

ON UPSTREAM END OF A RAILROAD BRIDGE IN MENDOTA, ACROSS A ROAD AND 250.0 FEET NORTH OF GENERAL SIBLEY'S OLD HOUSE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.668 12B = -89.668 09 = -89.586 03 = -89.436

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7272.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7272.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 3 RDS

NGS Name: 3 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	27 N	23 W	445051.00	930742.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1994) **Stamping:** 3 RDS 1950

0.5 MILE SOUTH AND 5.2 MILES WEST OF INVER GROVE, 23.0 FEET SOUTH OF A GRAVEL ROAD, 346.0 FEET WEST OF WESTBOUND TRUNK HIGHWAY 55, 63.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF TRINITY LUTHERAN SCHOOL. TIES FALL IN PARKING LOT.

Station Notes
TIES FALL IN PARKING LOT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.147 12B = -90.157 09 = -90.079 03 = -89.905

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7273.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7273.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 35 1

NGS Name: 35 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0870](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	21 W	444310.00	931652.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SEE DESCRIPTION	MNDT

Description: (2011)

Stamping:

IN BURNSVILLE, 0.8 MILE SOUTH ALONG INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND INTERSTATE HIGHWAY 35 WEST IN BURNSVILLE, 120.0 FEET EAST OF INTERSTATE HIGHWAY 35, 20.0 FEET SOUTH OF A TELEPHONE POLE, 10.0 FEET EAST OF AN EAST RIGHT-OF-WAY FENCE, IN THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A TELEPHONE JUNCTION BOX.

NO TRACE OF A TELEPHONE JUNCTION BOX IN 2011 OR 2023.

Station Notes

THE SET DATE IS UNKNOWN. NO TRACE OF A TELEPHONE JUNCTION BOX, UNABLE TO FIND WITH GIVEN INFORMATION.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1010.589	0.016	308.028	0.005	2/0	1991	00000025
NGVD29	1010.431	0.016	307.980	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.783 12B = -89.777 09 = -89.724 03 = -89.524

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52040.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52040.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 35 W 1

NGS Name: 35 W 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0858](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	13	115 N	21 W	444559.00	931718.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED CROSS	MNDT

Description: (1971)

Stamping:

IN BURNSVILLE, 0.5 MILE SOUTH ALONG INTERSTATE HIGHWAY 35 WEST FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND TRUNK HIGHWAY 13 IN BURNSVILLE, 40.0 FEET EAST OF INTERSTATE HIGHWAY 35 WEST, ON THE SOUTHWEST BOLT OF THE CONCRETE BASE OF A HIGHWAY INFORMATION SIGN (ST. PAUL - SHAKOPEE EXITS - BURNSVILLE CROSSTOWN).

Station Notes

THE SET DATE IS UNKNOWN. THE SIGN IS GONE, NO CONCRETE BASE IN 2006. UNABLE TO FIND WITH GIVEN TIE INFORMATION, ASSUMED DESTROYED IN RECONSTRUCTION. COUNTY ROAD HAS BEEN WIDENED AND OTHER MAJOR CONSTRUCTION HAS HAPPENED IN TIE LOCATION, ASSUMED DESTROYED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	926.934	0.016	282.530	0.005	2/0	1991	00000025
NGVD29	926.717	0.016	282.464	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.350 12B = -89.350 09 = -89.294 03 = -89.104

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52041.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52041.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 35 W 2

NGS Name: 35 W 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0856](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	115 N	21 W	444623.00	931717.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (1971)

Stamping:

IN BURNSVILLE, 0.2 MILE SOUTH ALONG INTERSTATE HIGHWAY 35 WEST FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35 WEST, 40.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35 WEST, ON THE TOP OF THE SOUTHWEST BOLT IN THE EAST LEG OF AN OVERHEAD SIGN (TRANS-HIGHWAY).

Station Notes

THE SET DATE IS UNKNOWN, OVERHEAD SIGN AND CONCRETE FOOTING ALL GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	858.735	0.016	261.743	0.005	2/0	1991	00000025
NGVD29	858.522	0.016	261.678	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.321 12B = -89.321 09 = -89.258 03 = -89.068

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52042.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52042.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 35 W 5

NGS Name: 35 W 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0852](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	27 N	24 W	444731.00	931718.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED CROSS	MNDT

Description: (1971)

Stamping:

IN BURNSVILLE, 1.1 MILES NORTH ALONG INTERSTATE HIGHWAY 35 WEST FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35 WEST, 0.7 MILE SOUTH OF THE MINNESOTA RIVER, 49.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35 WEST, ON THE SOUTHEAST BOLT OF THE WEST LEG OF AN INTERSTATE INFORMATION SIGN (122ND KEEP RIGHT).

Station Notes

THE SIGN AND CONCRETE FOOTING ARE GONE, THE TIES FALL IN A DRIVING LANE, AND INTERSTATE HIGHWAY 35W HAS BEEN WIDENED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	710.356	0.016	216.517	0.005	2/0	1991	00000025
NGVD29	710.149	0.016	216.454	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.235 12B = -89.235 09 = -89.157 03 = -88.976

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52043.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52043.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 363

NGS Name: 363

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1252](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	27 N	24 W	444934.00	931350.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED SQUARE	MNDT

Description: (1971)

Stamping:

IN BURNSVILLE, 1.1 MILES NORTH ALONG TRUNK HIGHWAY 36 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 36 IN EGAN TOWNSHIP, AT THE CROSSING OF THE MINNESOTA RIVER IN BURNSVILLE, 200.0 FEET SOUTH OF THE SOUTH END OF BRIDGE NUMBER 5521, ON THE EAST SIDE OF A CONCRETE BASE OF A HIGHWAY BARRICADE (LIFE ARM).

Station Notes

BRIDGE NUMBER 5521 IS A PIVOT BRIDGE FOR BARGE TRAFFIC, THE PIVOT BRIDGE IS GONE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	709.257	0.016	216.182	0.005	2/0	1991	00000025
NGVD29	709.080	0.016	216.128	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.485 12B = -89.488 09 = -89.383 03 = -89.235

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52045.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52045.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 38-001

NGS Name: 38 001

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0647](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	30	115 N	18 W	444446.09	930141.84	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNHD

Description: (2010) **Stamping:** 38-001 1970

IN ROSEMOUNT, 0.2 MILE EAST ON COUNTY ROAD 42 FROM THE JUNCTION OF TRUNK HIGHWAY 52, THEN 0.5 MILE NORTH ON CONLEY AVENUE, THEN 0.2 MILE EAST ON 140TH STREET, 28.0 FEET SOUTH OF 140TH STREET IN THE SOUTHEAST CORNER OF A BOX CULVERT AT THE NORTHWEST CORNER OF THE RICH VALLEY GOLF COURSE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	847.698	0.016	258.379	0.005	2/1	2016	00000879
NGVD29	847.567	0.016	258.339	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.378 12B = -92.365 09 = -92.313 03 = -92.142

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_001-PP0647-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_001-PP0647-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_001-PP0647-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7274.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7274.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 38-002

NGS Name: 38 002

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0646](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	30	115 N	18 W	444445.73	930057.05	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=NO	YES	CO RD	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 38-002 1970

IN ROSEMONT, 1.0 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 52/TRUNK HIGHWAY 56 AND COUNTY ROAD 38, 28.0 FEET SOUTH OF A COUNTY ROAD 38, IN THE SOUTHEAST CORNER OF COUNTY ROAD 38 BOX CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	828.561	0.016	252.546	0.005	2/1	2016	00000879
NGVD29	828.450	0.016	252.512	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.542 12B = -92.533 09 = -92.480 03 = -92.313

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_002-PP0646-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_002-PP0646-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_002-PP0646-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7275.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7275.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 38-003

NGS Name: 38 003

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0645](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	115 N	18 W	444439.80	930011.51	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	YES	CO RD	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 38-003 1970

IN ROSEMONT, 1.6 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 52/TRUNK HIGHWAY 56 AND COUNTY ROAD 38, 28.0 FEET SOUTH OF A COUNTY ROAD 38, IN THE SOUTHEAST CORNER OF COUNTY ROAD 38 BOX CULVERT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	854.106	0.016	260.332	0.005	2/1	2016	00000879
NGVD29	853.988	0.016	260.296	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.733 12B = -92.726 09 = -92.674 03 = -92.513

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_003-PP0645-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_003-PP0645-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/38_003-PP0645-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7276.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7276.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 4 ES

NGS Name: 4 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4294](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	29	113 N	19 W	443340.53	930811.10	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 6 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: (2012) **Stamping:** 4 ES 1955

4.8 MILES SOUTH OF FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 18.6, 4.8 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50, 52.0 FEET EAST OF TRUNK HIGHWAY 3, 131.0 FEET SOUTH OF DRIVEWAY NUMBER 26790, 130.0 FEET WEST OF THE NORTHWEST CORNER OF A SHED, 0.9 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	992.035	0.016	302.373	0.005	2/1	2016	00000879
NGVD29	991.921	0.016	302.338	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.028 12B = -93.048 09 = -92.999 03 = -92.811

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/4_ES-DM4294-3E-28OCT2022.jpg	E	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/4_ES-DM4294-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/4_ES-DM4294-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7277.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7277.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 4 GAF

NGS Name: 4 GAF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>			
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	20	114 N	17 W	444018.00	925225.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1993) **Stamping:** 4 GAF 1955 826

5.1 MILES SOUTH AND 1.0 MILE WEST OF HASTINGS, 528.0 FEET SOUTH AND 21.0 FEET WEST OF CROSSROADS, 1.0 FOOT EAST OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.843 12B = -95.823 09 = -95.758 03 = -95.617

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7278.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7278.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 4 RDS

NGS Name: 4 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	13	27 N	23 W	444912.80	930623.10			1950	2023	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2006) **Stamping:** 4 RDS 1950

2.0 MILES SOUTH ALONG TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 55, THEN 0.95 MILE NORTH OF TRUNK HIGHWAY 3, AT THE JUNCTION OF COUNTY ROAD 63 (BAFFIN TRAIL) AND TRUNK HIGHWAY 149, 187.0 FEET NORTH OF WESCOTT ROAD, 49.0 FEET EAST OF THE CENTRAL PACIFIC RAILROAD TRACKS, 22.5 FEET WEST OF THE EDGE OF A TRUNK HIGHWAY 149 TURN LANE, 24.5 FEET NORTH OF A T-PEDESTAL, 44.0 FEET NORTH OF AN ONVOY FIBER OPTIC SIGN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.581 12B = -90.584 09 = -90.512 03 = -90.328

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/4_RDS-3W-28NOV2006.jpg	W	Nov 28, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/4_RDS-2-28NOV2006.jpg		Nov 28, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/4_RDS-1-28NOV2006.jpg		Nov 28, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7279.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7279.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 42-001

NGS Name: 42 001

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0635](#) [Get Map](#)
NGS Quad / Sta Num : 44092443/
USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	115 N	17 W	444503.39	925243.58	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 12 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 42-001 1970

IN HASTINGS, 1.8 MILES WEST ON COUNTY ROAD 42 (2ND STREET) FROM TRUNK HIGHWAY 61 BRIDGE OVER COUNTY ROAD 42, 0.4 MILE WEST OF A HOSPITAL, 26.5 FEET SOUTH OF COUNTY ROAD 42, 71.0 FEET SOUTH OF A POWER POLE NUMBER ZG71FO2 AT AN ENTRANCE TO A HASTINGS TRAIL SYSTEM, 20.0 FEET NORTH OF A 15.0 INCH DIAMETER LINDEN TREE, 1.0 FOOT NORTHEAST OF A WITNESS POST SET ON A BIKE PATH SIGNPOST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	786.675	0.016	239.779	0.005	2/0	1991	00000025
NGVD29	786.514	0.016	239.730	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.672 12B = -94.695 09 = -94.675 03 = -94.445

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_001-PP0635-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_001-PP0635-2-08SEP2011.jpg		Sep 8, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_001-PP0635-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7280.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7280.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 42-002

NGS Name: 42 002

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0634](#) [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	115 N	17 W	444523.67	925311.63	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2020	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** 42002 1970

IN HASTINGS, 2.3 MILES WEST ON COUNTY ROAD 42 (2ND STREET) FROM A TRUNK HIGHWAY 61 BRIDGE OVER COUNTY ROAD 42, 0.9 MILE WEST OF A HOSPITAL, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF COUNTY ROAD 42 AND COUNTY ROAD 87, 58.5 FEET WEST OF AN ENTRANCE, 92.0 FEET NORTH OF COUNTY ROAD 42, 3.0 FEET EAST OF A 4.0 INCH DIAMETER SPRUCE TREE, 0.5 FOOT EAST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS NOT USABLE DO TO BEING UNDER THICK PINE TREE BRANCHES. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	788.670	0.016	240.387	0.005	2/0	1991	00000025
NGVD29	788.512	0.016	240.339	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.439 12B = -94.472 09 = -94.445 03 = -94.212

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_002-PP0634-3NW-22SEP2022.jpg	NW	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_002-PP0634-2-15NOV2006.jpg		Nov 15, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_002-PP0634-1-15NOV2006.jpg		Nov 15, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7281.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7281.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 42-003

NGS Name: 42 003

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0633](#) [Get Map](#)
 NGS Quad / Sta Num : 44092443/
 USGS Quad: ST PAUL PARK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	115 N	17 W	444523.54	925414.32	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2011	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 10 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (2007) **Stamping:** 42-003 1970

0.5 MILE WEST OF HASTINGS, 2.5 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 THEN 1.3 MILES NORTH, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF JACOB AVENUE AND 132 STREET, 24.3 FEET SOUTH OF 132ND STREET EAST, 34.7 FEET EAST OF JACOB AVENUE, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	864. 637	0. 016	263. 542	0. 005	2/0	1991	00000025
NGVD29	864. 477	0. 016	263. 493	0. 005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.114 12B = -94.144 09 = -94.121 03 = -93.891

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_003-PP0633-3S-15NOV2006.jpg	S	Nov 15, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_003-PP0633-2-15NOV2006.jpg		Nov 15, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_003-PP0633-1-15NOV2006.jpg		Nov 15, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7282.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7282.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 42-004

NGS Name: 42 004

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0632](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	19	115 N	17 W	444444.22	925414.27	2	3

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1970	2004	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	MNDT

Description: (1975) **Stamping:** 42-004 1970

2.5 MILES NORTH-NORTHWEST OF HASTINGS, 21.5 FEET EAST OF JACOB AVENUE, 40.0 FEET SOUTH OF 140TH STREET, 54.4 FEET EAST OF A TELEPHONE POLE, 78.4 FEET SOUTH OF A POWER POLE, 0.6 FOOT WEST OF A WITNESS POST.

Station Notes

RECOVERED BROKEN CONCRETE AND REBAR.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	911.278	0.016	277.758	0.005	2/0	1991	00000025
NGVD29	911.114	0.016	277.708	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.271 12B = -94.298 09 = -94.278 03 = -94.045

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (1996)	44 44 44.21566	92 54 14.26941	607234.407	200050.773	185085.417	60975.598	249.125	3	1999	17648		
NAD83 (1986)	44 44 44.20729	92 54 14.26615	607234.646	200049.926	185085.490	60975.340		3	1986	17289		
NAD27	44 44 44.32569	92 54 13.52471						3	1981	15750		

Station Photos

Type	File Name	Dir	Date
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/42_004-PP0632-1-15NOV2006.jpg		Nov 15, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7283.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7283.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 46 RDS

NGS Name: 46 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	23	115 N	21 W	444524.00	931818.00			1950	2011	DESTROYED	Horz=NO Vert=NO	YES			STEEL ROD IMBED IN MON
Monument Type						Disk Type						Mon. Agency			
CONCRETE MONUMENT (CAST-IN-PLACE)						SEE DESCRIPTION						USGS			

Description: (2006) **Stamping:** 46 RDS 1950
 IN BURNSVILLE, 36.0 FEET SOUTH OF 136TH STREET, 625.0 FEET WEST OF COUNTY ROAD 5.

Station Notes
 THE GRAVEL ROAD HAS BEEN WIDENED. TIE LOCATION IS IN THE SOUTHEAST QUADRANT OF 136TH STREET AND BURNSVILLE PARKWAY, EXTENSIVELY SEARCHED THE AREA ASSUMED DESTROYED DURING CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.281 12B = -89.278 09 = -89.219 03 = -89.029

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7284.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7284.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 5 ES

NGS Name: 5 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DM4306	Get Map
NGS Quad / Sta Num : 44093123/	
USGS Quad: CASTLE ROCK	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	7	112 N	19 W	443110.08	930842.09	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 1 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** 5 ES 1955

4.25 MILES NORTH OF NORTHFIELD, 2.65 MILES NORTHEAST AND NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 17.55, 340.0 FEET NORTHEAST OF 297TH STREET WEST, 65.0 FEET EAST OF TRUNK HIGHWAY 3, 2.4 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.499	0.016	283.007	0.005	2/1	2016	00000879
NGVD29	928.453	0.016	282.993	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.163 12B = -93.189 09 = -93.136 03 = -92.976

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/5_ES-DM4306-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/5_ES-DM4306-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/5_ES-DM4306-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7285.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7285.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 5 GAF

NGS Name: 5 GAF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	5	114 N	17 W	444206.00	925318.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1973) **Stamping:** 5 GAF 1955 815

3.5 MILES SOUTH-SOUTHWEST OF HASTINGS, 200.0 FEET NORTH AND 280.0 FEET EAST OF THE JUNCTION OF COUNTY ROAD 47 AND A GRAVEL ROAD WEST, 55.5 FEET SOUTHEAST OF COUNTY ROAD 47.

Station Notes

THE TIES FALL ALONG A DRIVE TO A FARM, COUNTY ROAD MAY HAVE BEEN REBUILT AND MOVED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.236 12B = -95.220 09 = -95.167 03 = -95.019

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7286.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7286.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 5 RDS

NGS Name: 5 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	27 N	23 W	444722.00	930707.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2014	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2011) **Stamping:** 5 RDS 1950

4.5 MILES SOUTH AND 5.0 MILES WEST OF INVER GROVE HEIGHTS, 26.0 FEET EAST OF DODD ROAD, 320.0 FEET SOUTH OF CLIFF ROAD.

Station Notes

THE TIES FALL IN THE FRONT YARD OF HOUSE NUMBER 661 WOODLAND WAY MAY HAVE BEEN DESTROYED DURING CONSTRUCTION OF THE HOUSE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.754 12B = -90.754 09 = -90.689 03 = -90.502

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7287.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7287.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 56 1

NGS Name: 56 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1344](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	28 N	22 W	445146.14	930122.10	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2006	DESTROYED	Horz=NO Vert=NO	YES			BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED CROSS	MNDT

Description: (1970)

Stamping:

IN INVER GROVE, BETWEEN 59TH STREET AND 60TH STREET, 23.0 FEET WEST OF TRUNK HIGHWAY 56 (CONCORD STREET), ON THE SOUTHEAST BOLT IN A CONCRETE SIGN BASE (MOOSE LODGE 1088).

Station Notes

THE SIGN HAS BEEN REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	719.467	0.016	219.294	0.005	2/0	1991	00000025
NGVD29	719.356	0.016	219.260	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.109 12B = -91.122 09 = -91.043 03 = -90.863

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/56_1-PP1344-3N-01DEC2006.jpg	N	Dec 1, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/56_1-PP1344-2-01DEC2006.jpg		Dec 1, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/56_1-PP1344-1-01DEC2006.jpg		Dec 1, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52046.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52046.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 56 2

NGS Name: 56 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1341](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	2	27 N	22 W	445112.00	930104.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2004	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	CHISELED CROSS	MNDT

Description: (1970)

Stamping:

IN INVER GROVE, 600.0 FEET EAST OF TRUNK HIGHWAY 56 (CONCORD STREET) ALONG THE SOUTH SIDE OF 66TH STREET EAST BETWEEN DOANE TRAIL AND DOFFING AVENUE EAST, ON THE EAST RIGHT-OF-WAY OF THE CHICAGO AND WESTERN RAILWAY NEAR A WYE IN THE TRACKS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	714.949	0.016	217.917	0.005	2/0	1991	00000025
NGVD29	714.838	0.016	217.883	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.263 12B = -91.273 09 = -91.197 03 = -91.014

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52047.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52047.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 563

NGS Name: 563

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1340](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	2	27 N	22 W	445111.00	930103.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2004	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED CROSS	MNDT

Description: (1970)

Stamping:

IN INVER GROVE, 150.0 FEET EAST OF TRUNK HIGHWAY 56 (CONCORD STREET), IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF 66TH STREET EAST AND THE CHICAGO AND WESTERN RAILWAY ON THE NORTHEAST BOLT IN THE CONCRETE BASE OF A RAILROAD SIGNAL CONTROL BOX.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	720.858	0.016	219.718	0.005	2/0	1991	00000025
NGVD29	720.743	0.016	219.683	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.270 12B = -91.279 09 = -91.201 03 = -91.020

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52048.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52048.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 56 A MNDT

NGS Name: 56 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2117](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	22 W	445231.00	930149.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2007	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2009)

Stamping:

IN SOUTH ST. PAUL, 0.06 MILE SOUTH ALONG CONCORD STREET FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND CONCORD STREET SOUTH IN SOUTH ST. PAUL.

Station Notes

DESTROYED DUE TO ROAD CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.909 12B = -90.918 09 = -90.843 03 = -90.666

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66611.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66611.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6 ES

NGS Name: 6 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	113 N	20 W	443346.00	931416.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1955) **Stamping:** 6 ES 1955 TT

2.25 MILES NORTH AND 5.5 MILES EAST OF WEBSTER, 2.25 MILES EAST FROM EIDAVELD, 300.0 FEET NORTH AND 34.0 FEET EAST OF A TEE-ROAD NORTH, 70.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE CHRISTIANIA LUTHERAN FREE CHURCH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.804 12B = -91.804 09 = -91.768 03 = -91.584

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7288.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7288.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6 GAF

NGS Name: 6 GAF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0631](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	114 N	17 W	444411.00	925413.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	1988	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1988) **Stamping:** 6 GAF 1955 1927 FT

0.5 MILE WEST OF HASTINGS, 800.0 FEET SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 55 AND JACOB AVENUE, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	927.610	0.016	282.736	0.005	2/0	1991	00000025
NGVD29	927.442	0.016	282.685	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.413 12B = -94.439 09 = -94.413 03 = -94.189

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6_GAF-PP0631-1-07NOV2006.jpg		Nov 7, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7289.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7289.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6 RDS

NGS Name: 6 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1122](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	20	115 N	19 W	444526.66	930726.57	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2023	GOOD	Horz=NO Vert=YES	YES		PROJECTS 8 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	BENCH MARK DISK	USGS

Description: (2014) **Stamping:** 6 RDS 1950

IN ROSEMOUNT, 1.8 MILES NORTH ALONG TRUNK HIGHWAY FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 34.3, 205.0 FEET WEST OF TRUNK HIGHWAY 3, 24.0 FEET NORTH OF COUNTY ROAD 38 (132ND STREET WEST), 105.0 FEET EAST OF AN ENTRANCE TO 2925, 41.0 FEET EAST OF A STOP AHEAD SIGN, 0.9 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	978.482	0.016	298.242	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.069 12B = -91.063 09 = -91.007 03 = -90.810

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6_RDS-DQ1122-3N-19SEP2011.jpg	N	Sep 19, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6_RDS-DQ1122-2-19SEP2011.jpg		Sep 19, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6_RDS-DQ1122-1-19SEP2011.jpg		Sep 19, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7290.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7290.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 66-001

NGS Name: 66 001

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0570](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	114 N	18 W	443932.00	930027.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SURVEY DISK	MNDT

Description: (1972) **Stamping:** 66-001 1972

0.4 MILE EAST OF EMPIRE, 0.1 MILE WEST OF TRUNK HIGHWAY 52, IN THE SOUTHEAST CORNER OF COUNTY ROAD 66 BRIDGE NUMBER 19506 OVER THE VERMILLION RIVER (200TH STREET).

Station Notes

THE MONUMENT WAS DESTROYED DURING BRIDGE REPLACEMENT.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	851.353	0.016	259.493	0.005	2/0	1991	00000025
NGVD29	851.209	0.016	259.449	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.891 12B = -93.888 09 = -93.822 03 = -93.645

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7291.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7291.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6603 A

NGS Name: 6603 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7024](#) [Get Map](#)
 NGS Quad / Sta Num : 44093241/
 USGS Quad: LITTLE CHICAGO

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	112 N	20 W	442819.41	931636.64	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 6603 A 1976

5.0 MILES WEST OF NORTHFIELD, 0.7 MILE EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND NORTHBOUND INTERSTATE HIGHWAY 35, AT TRUNK HIGHWAY 19 MILEPOINT 170.11, 72.0 FEET NORTH OF TRUNK HIGHWAY 19, 30.0 FEET EAST OF A FIELD ENTRANCE NORTH, 5.8 FEET EAST OF A TELEPHONE PEDESTAL, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1021.727	0.016	311.423	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -92.044 12B = -92.067 09 = -92.024 03 = -91.831

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_A-DP7024-3N-01NOV2022.jpg	N	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_A-DP7024-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_A-DP7024-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7292.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7292.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6603 B

NGS Name: 6603 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7025](#) [Get Map](#)
 NGS Quad / Sta Num : 44093241/
 USGS Quad: LITTLE CHICAGO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	30	112 N	20 W	442819.38	931550.06	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	VERTICAL CONTROL DISK	MNDT

Description: (1976) **Stamping:** 6603 B 1976

4.25 MILES WEST OF NORTHFIELD, 1.3 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND NORTHBOUND INTERSTATE HIGHWAY 35, AT TRUNK HIGHWAY 19 MILEPOINT 170.79, 70.0 FEET NORTH OF TRUNK HIGHWAY 19, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1041.133	0.016	317.338	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -92.155 12B = -92.178 09 = -92.132 03 = -91.949

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_B-DP7025-3N-01NOV2022.jpg	N	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_B-DP7025-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_B-DP7025-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7293.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7293.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6603 C

NGS Name: 6603 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7026](#) [Get Map](#)
 NGS Quad / Sta Num : 44093241/
 USGS Quad: LITTLE CHICAGO

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	29	112 N	20 W	442818.74	931506.23	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** 6603 C 1976

3.75 MILES WEST OF NORTHFIELD, 1.9 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND NORTHBOUND INTERSTATE HIGHWAY 35, 74.0 FEET NORTH OF TRUNK HIGHWAY 19, AT TRUNK HIGHWAY 19 MILEPOINT 171.39, 38.6 FEET EAST OF A DRIVEWAY, 16.7 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A LARGE BOULDER, 1.3 FEET EAST OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1016.957	0.016	309.969	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -92.264 12B = -92.287 09 = -92.244 03 = -92.063

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_C-DP7026-3N-01NOV2022.jpg	N	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_C-DP7026-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_C-DP7026-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7294.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7294.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6603 E

NGS Name: 6603 E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7029](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	112 N	20 W	442819.00	931352.88	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2022	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
COPPER CLAD ROD (NO SLEEVE)	VERTICAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** 6603 E 1976

2.75 MILES WEST OF NORTHFIELD, 2.9 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND NORTHBOUND INTERSTATE HIGHWAY 35, AT TRUNK HIGHWAY 19 MILEPOINT 172.40, 109.0 FEET NORTH OF TRUNK HIGHWAY 19, 34.0 FEET NORTH OF A RIGHT-OF-WAY POST, 10.0 FEET WEST OF A FENCE, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1008.620	0.016	307.428	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -92.447 12B = -92.470 09 = -92.428 03 = -92.254

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_E-DP7029-3N-01NOV2022.jpg	N	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_E-DP7029-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6603_E-DP7029-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7295.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7295.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6604 C

NGS Name: 6604 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ7237](#) [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	112 N	19 W	442819.07	930551.94	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 42 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** 6604 C 2016

3.0 MILES EAST OF NORTHFIELD, 3.55 MILES EASTERLY ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD, AT TRUNK HIGHWAY 19 MILEPOINT 180.0, 74.5 FEET NORTH OF TRUNK HIGHWAY 19, 1.5 FEET SOUTH OF A RIGHT-OF-WAY POST AND A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	983.581	0.016	299.796	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -93.871 12B = -93.891 09 = -93.855 03 = -93.717

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 28 19.08793	93 05 51.94676	557147.072	100085.716	169818.767	30506.187	271.247	3	2020	GPSBM		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6604_C-DQ7237-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6604_C-DQ7237-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6604_C-DQ7237-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106507.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106507.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 6604 D

NGS Name: 6604 D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ7236](#) [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	26	112 N	19 W	442819.54	930430.20	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** 6604 D 2016

4.0 MILES EAST OF NORTHFIELD, 4.7 MILES EASTERLY ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD, AT TRUNK HIGHWAY 19 MILEPOINT 181.10, 74.8 FEET NORTH OF TRUNK HIGHWAY 19, 43.0 FEET WEST OF EXTENDED CENTERLINE COUNTY ROAD 42 (KELLOGG AVENUE), 1.5 FEET SOUTH OF A FENCE LINE, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	953.285	0.016	290.562	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -94.166 12B = -94.176 09 = -94.147 03 = -94.016

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 28 19.53840	93 04 30.19642	563075.191	100148.100	171625.661	30525.202	261.839	3	2020	GPSBM		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6604_D-DQ7236-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6604_D-DQ7236-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/6604_D-DQ7236-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106508.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106508.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 7 ES

NGS Name: 7 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093132/
 USGS Quad: NEW MARKET

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	113 N	20 W	443239.00	931541.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2011	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (2011) **Stamping:** 7 ES 1955

1.0 MILE NORTH AND 4.5 MILES EAST OF WEBSTER, 38.00 FEET NORTH AND 196.00 FEET EAST OF A TEE-ROAD SOUTH, 2.0 FEET NORTH OF A RIGHT-OF-WAY FENCE.

Station Notes

THE STATION WAS NOT LOCATED IN 1973, THE RIGHT-OF-WAY FENCE HAS BEEN REMOVED.
 COUNTY ROAD 86 HAS BEEN WIDENED, DITCHES HAVE BEEN WIDENED AND CUT BACK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.686 12B = -91.696 09 = -91.657 03 = -91.473

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7296.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7296.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 7 GAF

NGS Name: 7 GAF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0640](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	26	115 N	18 W	444430.89	925706.16	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2004	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2007) **Stamping:** 7 GAF 1955 884

ABOUT 4.0 MILES WEST OF HASTINGS, NEAR THE EAST JUNCTION OF TRUNK HIGHWAY 55 AND COUNTY ROAD 42, 22.5 FEET SOUTH OF COUNTY ROAD 42, 63.0 FEET WEST OF AN ENTRANCE, 43.5 FEET WEST-SOUTHWEST OF A TELEPHONE POLE, 42.1 FEET WEST OF CABLE BOX NUMBER 7100, AT THE END OF A DEAD END, 1.1 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	884.398	0.016	269.565	0.005	2/0	1991	00000025
NGVD29	884.237	0.016	269.516	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.530 12B = -93.533 09 = -93.484 03 = -93.320

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/7_GAF-PP0640-3S-07NOV2006.jpg	S	Nov 7, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/7_GAF-PP0640-2-07NOV2006.jpg		Nov 7, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/7_GAF-PP0640-1-07NOV2006.jpg		Nov 7, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7297.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7297.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 7 RDS

NGS Name: 7 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	22	115 N	19 W	444513.05	930441.29			1950	2011	DESTROYED	Horz=NO Vert=NO	YES			STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (1973) **Stamping:** 7 RDS 1950

2.5 MILES EAST-NORTHEAST OF ROSEMOUNT, 24.0 FEET NORTH OF 135TH STREET, 330.0 FEET WEST OF A RAILROAD, 121.0 FEET EAST OF A FARM ENTRANCE, 16.5 FEET WEST OF A POWER POLE NUMBER 23, 0.5 FOOT SOUTH OF A WITNESS POST.

Station Notes

POOR CONDITION, LEANING EAST AND NORTH. THE DISK WAS TURNED INTO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.657 12B = -91.647 09 = -91.598 03 = -91.407

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/7_RDS-3N-25OCT2006.jpg	N	Oct 25, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/7_RDS-2-25OCT2006.jpg		Oct 25, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/7_RDS-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7298.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7298.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 8 ES

NGS Name: 8 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	112 N	20 W	443014.78	931353.11		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 2 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (1955) **Stamping:** 8 ES 1955

4.5 MILES NORTHWEST OF NORTHFIELD, 0.22 MILE WEST ALONG 307TH STREET WEST FROM THE JUNCTION OF GUAM AVENUE AND 307TH STREET WEST, 0.05 MILE SOUTHWEST ALONG HAYES AVENUE FROM THE JUNCTION OF HAYES AVENUE AND 307TH STREET WEST, AT THE SOUTHWEST CORNER OF A COUNTY ROAD 90 RIGHT-OF-WAY (AT A 90 DEGREE CURVE), 34.0 FEET SOUTHEAST OF A FIELD ROAD, 14.0 FEET EAST OF A POWER POLE, 12.0 FEET WEST AND 3.0 FEET SOUTH OF A POWER POLE, 3.0 FEET SOUTH-SOUTHEAST OF A CABLE POST, 0.5 FOOT NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.293 12B = -92.316 09 = -92.264 03 = -92.086

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/8_ES-3S-01NOV2022.jpg	S	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/8_ES-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/8_ES-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7299.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7299.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 8 RDS

NGS Name: 8 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0644](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	28	115 N	18 W	444432.44	925935.54	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 8 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	MNDT

Description: (2010) **Stamping:** 8 RDS 1950

IN ROSEMOUNT, 600.0 FEET SOUTHWEST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND COUNTY ROAD 42 THEN 800.0 FEET WEST ON 142ND STREET WEST, 26.0 FEET NORTH OF 142ND STREET WEST, 1.0 FOOT SOUTH OF DAKOTA COUNTY SIGN AND A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	896.816	0.016	273.350	0.005	2/1	2016	00000879
NGVD29	896.662	0.016	273.303	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.900 12B = -92.894 09 = -92.841 03 = -92.680

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 32.43694	92 59 35.53977	584051.206	198753.039	178019.164	60580.047	245.026					2016	GPS3147	
NAD83 (2007)	44 44 32.43676	92 59 35.54053	584051.151	198753.020	178019.147	60580.042	245.046					2007	GPS2300	
NAD83 (1996)	44 44 32.43663	92 59 35.54022	584051.174	198753.007	178019.154	60580.038	245.109	C				2016	HMI5	
NAD83 (1986)	44 44 32.42924	92 59 35.53558	584051.512	198752.260	178019.257	60579.810		C				1990	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/8_RDS-PP0644-3N-20OCT2022.jpg	N	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/8_RDS-PP0644-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/8_RDS-PP0644-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7300.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7300.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 80 MC

NGS Name: 80 MC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093241/
 USGS Quad: LITTLE CHICAGO

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	29	112 N	20 W	442819.00	931505.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1958	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2011)

Stamping: 80 MC 1958 1017

4.5 MILES WEST-NORTHWEST OF NORTHFIELD, 76.0 FEET NORTH OF TRUNK HIGHWAY 19 AT TOWNSHIP ROAD SOUTH 1.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.267 12B = -92.290 09 = -92.247 03 = -92.063

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7301.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7301.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 9 ES

NGS Name: 9 ES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	24	112 N	20 W	442936.00	931048.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	1956	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1955) **Stamping:** 9 ES 1955

2.5 MILES NORTH AND 1.2 MILES WEST OF NORTHFIELD, 194.0 FEET NORTH AND 27.0 FEET EAST OF A TEE-ROAD EAST (EVELETH AVENUE AND 315TH STREET), 3.0 FEET NORTHEAST OF THE CORNER OF A FENCE POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.871 12B = -92.903 09 = -92.848 03 = -92.687

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73574.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73574.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 9 RDS

NGS Name: 9 RDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1311](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	35	28 N	23 W	445222.00	930736.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1977) **Stamping:** 9RDS 1950

1.0 MILE SOUTHEAST OF MENDOTA HEIGHTS, 0.06 MILE NORTH ALONG PAGEL ROAD FROM THE JUNCTION OF PAGEL ROAD AND KEOKUK LANE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	886.937	0.016	270.339	0.005	2/0	1991	00000025
NGVD29	886.760	0.016	270.285	0.005	2	1972	L122 MINN

Geoid Separations(ft): GEOID18 = -90.006 12B = -90.010 09 = -89.944 03 = -89.770

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7302.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7302.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: 97

NGS Name: 97

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0497](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	26 N	20 W	444450.00	925050.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SEE DESCRIPTION	DOD

Description:

Stamping:

IN HASTINGS, NEAR HASTINGS, AT THE PIVOT PIER OF THE CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD OVER THE MISSISSIPPI RIVER, AT THE UPSTREAM SIDE, 6.0 INCHES SOUTH OF THE GANGWAY LEADING FROM THE PIER TO THE UPPER BREAK-WATER CRIB AND ON TOP OF THE MASONRY.

Station Notes

THERE IS NO DATASHEET IN THE NGISDB. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	694.073	0.007	211.554	0.002	1	1935	CUTLER-VERT
GA1912	694.549	0.007	211.699	0.002	1	1914	GA1912

Geoid Separations(ft): GEOID18 = -95.338 12B = -95.344 09 = -95.315 03 = -95.118

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66616.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66616.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: A 27

NGS Name: A 27

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1473](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	114 N	19 W	444253.46	930207.76	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2015) **Stamping:** A 27 1933

IN COATES, 0.11 MILE WEST ALONG TRUNK HIGHWAY 46 FROM THE JUNCTION OF TRUNK HIGHWAY 46 AND TRUNK HIGHWAY 52 (AT TRUNK HIGHWAY 52 MILEPOINT 113.9), 0.3 MILE NORTH ALONG CLAYTON AVENUE (WEST FRONTAGE ROAD), 175.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 125.0 FEET WEST OF CLAYTON AVENUE, 23.3 FEET WEST OF A DRIVE TO THE AMISH SHOWROOM, IN THE SOUTHEASTERN MOST OF 12 CONCRETE FOOTINGS FOR AN ABANDONED RAILROAD WATER TANK, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	917.577	0.016	279.678	0.005	2/1	2013	00000781
NGVD29	917.393	0.016	279.622	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.703 12B = -92.707 09 = -92.638 03 = -92.447

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/A_27-PP1473-3SW-21OCT2022.jpg	SW	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/A_27-PP1473-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/A_27-PP1473-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7303.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7303.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ACCESS MN037

NGS Name: ACCESS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5057](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	10	112 N	18 W	443118.09	925738.62		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** ACCESS 1991

2.75 MILES WEST OF CANNON FALLS, IN RANDOLPH TOWNSHIP, 1.9 MILES WEST ALONG COUNTY ROAD 88 FROM COUNTY ROAD 88 BRIDGE OVER TRUNK HIGHWAY 52, 25.0 FEET SOUTH OF COUNTY ROAD 88, 330.0 FEET WEST OF GAYLORD AVENUE, 15.0 FEET WEST OF AN ENTRANCE SOUTH (OLD PUBLIC ACCESS TO LAKE BYLLESBY), 56.0 FEET WEST-NORTHWEST OF A POWER POLE, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK WAS DESTROYED BY ROAD CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.561 12B = -95.561 09 = -95.498 03 = -95.374

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 31 18.08718	92 57 38.61846		592842.224	118339.929	180698.671	36070.082	234.293		2012	GPS2800
NAD83 (2007)	44 31 18.08726	92 57 38.61921		592842.169	118339.937	180698.655	36070.085	234.317		2007	GPS2300
NAD83 (1996)	44 31 18.08708	92 57 38.61943		592842.154	118339.918	180698.650	36070.079	234.349	C	2000	GPS1517
NAD83 (1986)	44 31 18.08062	92 57 38.61717		592842.322	118339.265	180698.701	36069.880		C	1992	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ACCESS-AC5057-3S-06OCT2022.jpg	S	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ACCESS-AC5057-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ACCESS-AC5057-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7304.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7304.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: AKRON MN037

NGS Name: AKRON

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	115 N	19 W	444503.97	930506.73		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** AKRON 1988

IN ROSEMOUNT, 0.85 MILE NORTH OF THE JUNCTION OF COUNTY ROAD 42 AND COUNTY ROAD 73 (AKRON AVENUE), 20.0 FEET EAST OF AKRON AVENUE, 11.0 FEET NORTH OF A RAILROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.607 12B = -91.598 09 = -91.545 03 = -91.355

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 45 03. 97393	93 05 06. 73695	560136. 258	201865. 590	170729. 873	61528. 755			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7305.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7305.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ALOJADO

NGS Name: ALOJADO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8566](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	17	114 N	19 W	444101.10	930810.34	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** ALOJADO 2015

3.65 MILES NORTH OF FARMINGTON, 3.65 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 29.0, 80.1 FEET EAST OF TRUNK HIGHWAY 3, 135.4 FEET NORTH OF DRIVEWAY NUMBER 18010, 2.5 FEET WEST OF A FENCE, 2.0 FEET WEST OF A WITNESS POST.

Station Pair: MAR - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	998.791	0.016	304.432	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.965 12B = -91.958 09 = -91.909 03 = -91.696

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 01.10368	93 08 10.34021	546940.221	177234.724	166707.713	54021.252	276.411			2015	GPS3101	
NAD83 (1996)	44 41 01.10367	93 08 10.34060	546940.193	177234.723	166707.704	54021.252	276.481	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ALOJADO-DP8566-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ALOJADO-DP8566-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ALOJADO-DP8566-1-02APR2015.jpg		Apr 2, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103188.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103188.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ALTA MN037

NGS Name: ALTA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	112 N	19 W	443041.84	930447.14		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** ALTA 1991

3.25 MILES WEST-SOUTHWEST OF RANDOLPH, IN SCIOTA TOWNSHIP, 0.85 MILE SOUTH ALONG COUNTY ROAD 59 (ALTA AVENUE) FROM THE JUNCTION OF COUNTY ROAD 59 AND COUNTY ROAD 47, 18.0 FEET EAST OF COUNTY ROAD 59, 10.0 FEET NORTH OF A FIELD ENTRANCE, 30.0 FEET NORTHWEST OF A CORNER FENCE POST, THE STATION IS BURIED 0.2 FOOT BELOW GROUND.

Station Notes

UNABLE TO FIND ANY EVIDENCE OF THE MARK SEARCHED TIES AND THE REFERENCE LOCATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.019 12B = -94.035 09 = -93.986 03 = -93.848

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 30 41.83742	93 04 47.13966	561804.601	114555.729	171238.385	34916.656			C	1992	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7307.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7307.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: AMANDA

NGS Name: AMANDA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1060](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	13	113 N	18 W	443604.16	925509.40	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** AMANDA 2015

0.75 MILE EAST OF NEW TRIER, 0.75 MILE EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 85 SOUTH/HOGAN AVENUE IN NEW TRIER, AT TRUNK HIGHWAY 50 MILEPOINT 22.6, 28.0 FEET SOUTH OF TRUNK HIGHWAY 50, 22.8 FEET WEST OF A FIELD ENTRANCE, 5.0 FEET EAST OF A WITNESS POST.

Station Pair: 1923 G RESET - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	984.942	0.016	300.211	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.738 12B = -95.722 09 = -95.666 03 = -95.521

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 36 04.15672	92 55 09.40064	603512.305	147361.457	183950.919	44915.862	271.041	2016	C	2016	GPS3148	
NAD83 (1996)	44 36 04.15673	92 55 09.40121	603512.264	147361.458	183950.906	44915.862	271.098	2016	C	2016	HTRIER	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AMANDA-DQ1060-3S-30SEP2022.jpg	S	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AMANDA-DQ1060-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AMANDA-DQ1060-1-31MAR2015.jpg		Mar 31, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103106.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103106.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANNE

NGS Name: ANNE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DO4922	Get Map
NGS Quad / Sta Num : 44093113/	
USGS Quad: ST PAUL SW	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	27 N	23 W	444909.16	931239.34	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** ANNE 2011

IN EAGAN, 0.59 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77 (CEDAR AVENUE) IN EAGAN, AT TRUNK HIGHWAY 13 MILEPOINT 102.57, 92.1 FEET NORTH OF SOUTHBOUND TRUNK HIGHWAY 13, 62.7 FEET NORTHEAST OF A FIBER OPTIC MARKER, 13.5 FEET SOUTHEAST OF A FENCE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	788.168	0.016	240.234	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.659 12B = -89.659 09 = -89.570 03 = -89.409

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 49 09.15492	93 12 39.33490	527440.232	226629.697	160764.104	69076.870	212.900			2018	GPS3290	
NAD83 (1996)	44 49 09.15465	93 12 39.33525	527440.207	226629.669	160764.097	69076.861	212.984	C		2018	HTH77	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANNE-DO4922-3NW-20JUL2023.jpg	NW	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANNE-DO4922-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANNE-DO4922-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95068.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95068.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANTLER MNDT

NGS Name: ANTLER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP2614
NGS Quad / Sta Num : 44093131/
USGS Quad: ORCHARD LAKE

Table with columns: Reference, Reference, Vert, Horz, 1/4, Sec, Twp, Rng, Latitude, Longitude, Order, Order

Table with columns: Year Set, Last Recovery, Condition, Geodetic Usability, Photos, Bridge Num, F/P/R, Magnetic Properties

Table with columns: Monument Type, Disk Type, Mon. Agency

Description: (1989) Stamping: ANTLER 1980

2.0 MILES WEST OF LAKEVILLE, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 70, ON A LARGE GRASSY HILL BETWEEN NORTHBOUND INTERSTATE HIGHWAY 35 AND AN EXIT RAMP TO COUNTY ROAD 70, 117.0 FEET WEST OF A NORTHBOUND INTERSTATE HIGHWAY 35 EXIT RAMP, 176.0 FEET SOUTH OF COUNTY ROAD 70, 3.3 FEET WEST OF A WITNESS POST, 27.22 FEET SOUTHEAST OF ANTLER RM 2, 27.10 FEET SOUTHWEST OF ANTLER RM 1.

Station Notes
COORDINATES PUT THE MARK IN A HOLDING POND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.331 12B = -90.338 09 = -90.285 03 = -90.075

Geodetic Position and Dakota County Coordinates

Table with columns: Datum and Adjustment, Geodetic Positions (Latitude, Longitude), County (Feet) (X, Y), County (Meters) (X, Y), Ellipsoid Hgt (m), Surv Ord, Project Info (Year, Reference)

Station Photos

Table with columns: Type, File Name, Dir, Date

** All station images can be viewed at: ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7308.pdf
Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7308.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANTLER RM 1
County: DAKOTA, MN (Sheet 1)

NGS Name: ANTLER RM 1

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	116 N	21 W	443841.23	931743.05		

NGS ACRN: [CJ3802](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1980) **Stamping:** ANTLER NO 1 1980

2.0 MILES WEST OF LAKEVILLE, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 70, ON THE LARGE GRASSY HILL BETWEEN NORTHBOUND INTERSTATE HIGHWAY 35 AND AN EXIT RAMP TO COUNTY ROAD 70, 27.2 FEET NORTHWEST OF STATION ANTLER MNDT, 104.3 FEET WEST OF A NORTHBOUND INTERSTATE HIGHWAY 35 EXIT RAMP, 152.0 FEET SOUTH OF COUNTY ROAD 70, 26.4 FEET NORTH-NORTHEAST OF A WITNESS POST.

Station Notes
NEW BRIDGE AND ON/OFF RAMPS. TIES AND COORDINATES PUT THE MARK IN A HOLDING POND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.331 12B = -90.338 09 = -90.289 03 = -90.075

* No Horizontal Positions in the Database *

<u>Type</u>	<u>Station Photos</u>		<u>Dir</u>	<u>Date</u>
	<u>File Name</u>			
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANTLER_RM_1-CJ3802-3NE-02NOV2006.jpg		NE	Nov 2, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANTLER_RM_1-CJ3802-2-02NOV2006.jpg			Nov 2, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANTLER_RM_1-CJ3802-1-02NOV2006.jpg			Nov 2, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64121.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64121.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ANTLER RM 2
County: DAKOTA, MN (Sheet 1)

NGS Name: ANTLER RM 2

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	114 N	21 W	443841.31	931743.42		

NGS ACRN: CJ3803	Get Map
NGS Quad / Sta Num : 44093131/	
USGS Quad: ORCHARD LAKE	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: **Stamping:** ANTLER NO 2 1980

2.0 MILES WEST OF LAKEVILLE, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 70, ON THE LARGE GRASSY HILL BETWEEN NORTHBOUND INTERSTATE HIGHWAY 35 AND EXIT RAMP TO COUNTY ROAD 70, 27.1 FEET NORTHEAST OF STATION ANTLER, 133.0 FEET WEST OF NORTHBOUND INTERSTATE HIGHWAY 35 EXIT RAMP, 150.0 FEET SOUTH OF COUNTY ROAD 70, 29.6 FEET NORTH-NORTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.328 12B = -90.334 09 = -90.285 03 = -90.075

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANTLER_RM_2-CJ3803-3NW-02NOV2006.jpg	NW	Nov 2, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANTLER_RM_2-CJ3803-2-02NOV2006.jpg		Nov 2, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ANTLER_RM_2-CJ3803-1-02NOV2006.jpg		Nov 2, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64122.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64122.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APP MNDT TEMP

NGS Name: APP TEMP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2600](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	8	114 N	19 W	444121.00	930810.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2006	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (1988) **Stamping:** APP 1980

3.3 MILES NORTH OF FARMINGTON, 3.3 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50, IN EMPIRE TOWNSHIP, AT TRUNK HIGHWAY 3 MILEPOINT 29.3, 54.7 FEET EAST OF TRUNK HIGHWAY 3, 2.1 FEET WEST OF A WITNESS POST, 125.4 FEET NORTH OF A MINNESOTA DEPARTMENT OF TRANSPORTATION NAIL AND DISK IN A POWER POLE.

Station Notes

THIS STATION WAS RESET IN 1988 IN THE SAME HORIZONTAL POSITION AND IS NOW NAMED STATION APP MNDT TEMP RESET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.893 12B = -91.886 09 = -91.837 03 = -91.624

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 41 20. 91697	93 08 10. 46121	546927. 033	179241. 338	166703. 693	54632. 869			1991	H1991
NAD27	44 41 21. 04248	93 08 09. 67969						2	1982	16778

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7309.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7309.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APP MNDT TEMP RESET

NGS Name: APP TEMP RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5054](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	8	114 N	19 W	444120.93	930810.46	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** APP 1988

3.3 MILES NORTH OF FARMINGTON, 3.4 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 50, IN EMPIRE TOWNSHIP, AT TRUNK HIGHWAY 3 MILEPOINT 29.4, 54.7 FEET EAST OF TRUNK HIGHWAY 3, 1.3 FEET WEST OF A WITNESS POST.

Station Notes

THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1020.047	0.016	310.911	0.005	2/1	2004	00000449
NGVD29	1019.932	0.016	310.876	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -91.890 12B = -91.883 09 = -91.834 03 = -91.624

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 20.92425	93 08 10.46363	546926.856	179242.076	166703.639	54633.094	282.903			2012	GPS2800	
NAD83 (2007)	44 41 20.92438	93 08 10.46437	546926.802	179242.089	166703.623	54633.098	282.925			2007	GPS2300	
NAD83 (1996)	44 41 20.92412	93 08 10.46453	546926.791	179242.063	166703.619	54633.090	282.963	C		2000	GPS1517	
NAD83 (1986)	44 41 20.91697	93 08 10.46121	546927.032	179241.339	166703.693	54632.869			2	1986	17289	
NAD27	44 41 21.04248	93 08 09.67969							C	1950	UNK	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APP_TEMP_RESET-AC5054-3E-31OCT2022.jpg	E	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APP_TEMP_RESET-AC5054-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APP_TEMP_RESET-AC5054-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7310.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7310.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APPLE MN037

NGS Name: APPLE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 44093124/
USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	33	115 N	20 W	444303.60	931412.27		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** APPLE 1988

IN APPLE VALLEY, 0.9 MILE WEST OF THE JUNCTION OF COUNTY ROAD 23 (CEDAR AVENUE) AND COUNTY ROAD 46, 80.0 FEET NORTH OF COUNTY ROAD 46, 60.0 FEET WEST-SOUTHWEST OF A WATER TANK, 75.0 FEET WEST-NORTHWEST OF A POWER POLE, 53.3 FEET NORTHEAST OF A FIRE HYDRANT.

Station Notes

INACCESSIBLE, 10.0 FEET BEHIND A FENCE TO THE APPLE VALLEY WATER TANK.
THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.282 12B = -90.282 09 = -90.220 03 = -90.020

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 03. 60301	93 14 12. 27398	520777. 062	189599. 358	158733. 166	577900000			C	1988	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7311.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7311.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APPLE VALLEY MUN TANK

NGS Name: APPLE VALLEY MUN TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	29	115 N	20 W	444400.97	931441.91			1981	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION
						<u>Disk Type</u>	<u>Mon. Agency</u>								
						SURVEY DISK	MNDT								
<u>Monument Type</u>												<u>Mon. Agency</u>			
SEE DESCRIPTIVE TEXT												MNDT			

Description: (1981)

Stamping:

2.0 MILES SOUTH OF APPLE VALLEY, 0.35 MILE WEST ALONG GARDEN VIEW DRIVE FROM THE JUNCTION OF GARDEN VIEW DRIVE AND 150TH STREET WEST, THEN 0.07 MILE NORTH ON GARDEN VIEW DRIVE, THEN 0.30 MILE WEST ON WALNUT LANE, THEN WEST ON A GRAVEL ROAD, 300.0 FEET WEST OF THE JUNCTION OF WALNUT LANE AND REDWOOD DRIVE.

Station Notes

THE WATER TANK HAS BEEN REMOVED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.020 12B = -90.020 09 = -89.964 03 = -89.764

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7312.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7312.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APPLE VALLEY STANDPIPE

NGS Name: APPLE VALLEY STANDPIPE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM6923](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	16	115 N	20 W	444548.17	931328.20		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	STANDPIPE TANK	MNDT

Description: (2007)

Stamping:

IN THE NORTHWESTERN PART OF APPLE VALLEY, 0.35 MILE WEST OF CEDAR AVENUE, 0.15 MILE SOUTH OF COUNTY ROAD 38 (MC ANDREWS).

Station Notes

THE TOP OF THE CENTER OF THE TANK WAS OBSERVED, ACCESS THROUGH A GATE ALONG THE DRIVEWAY TO 7728 128TH STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.921 12B = -89.924 09 = -89.869 03 = -89.668

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_STANDPIPE-AM6923-3E-13JUL2023.jpg	E	Jul 13, 2023
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7313.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7313.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: APVY

NGS Name: APVY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DJ8740](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	115 N	20 W	444358.23	931237.27	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** APVY 2003

0.25 MILE EAST ALONG COUNTY ROAD 42/150TH STREET WEST FROM THE JUNCTION OF COUNTY ROAD 42 AND CEDAR AVENUE SOUTH/COUNTY ROAD 23 IN APPLE VALLEY, THEN 0.05 MILE NORTH ALONG GARRETT AVENUE, THEN 0.1 MILE NORTHEAST ALONG GLAZIER AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ALONG A FRONTAGE ROAD, THEN 0.05 MILE EAST THROUGH A PARKING LOT TO THE SOUTHWEST CORNER OF A BUILDING, 81.7 FEET NORTHWEST OF A FIRE HYDRANT, 49.2 FEET NORTH OF THE BACK OF A CURB, 26.5 FEET SOUTH OF THE SOUTHWEST CORNER OF A LIBRARY, 39.5 FEET NORTH OF A WITNESS POST.

Station Notes

THE MARK IS UNDER A TREE. NO GPS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	953.689	0.016	290.685	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.413 12B = -90.413 09 = -90.351 03 = -90.141

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APVY-DJ8740-3N-13JUL2023.jpg	N	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APVY-DJ8740-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APVY-DJ8740-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_50693.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50693.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: AVENUE

NGS Name: AVENUE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0974](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	25	115 N	18 W	444415.74	925544.45	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 64 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** AVENUE 2015

3.75 MILES WEST OF HASTINGS, 3.8 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 55 MILEPOINT 216.5, 29.0 FEET WEST OF HORNER AVENUE, 34.9 FEET NORTH OF A FIELD ENTRANCE, 0.05 MILE SOUTH OF TRUNK HIGHWAY 55, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: HORNER - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	877.784	0.016	267.549	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.950 12B = -93.970 09 = -93.930 03 = -93.737

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 15.73599	92 55 44.44718	600739.498	197134.444	183105.765	60086.699	238.911	2016	GPS3147			
NAD83 (1996)	44 44 15.73587	92 55 44.44761	600739.467	197134.432	183105.756	60086.695	238.975	C	2016	HMTS		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AVENUE-DQ0974-3W-22SEP2022.jpg	W	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AVENUE-DQ0974-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/AVENUE-DQ0974-1-06MAY2015.jpg		May 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103407.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103407.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 117

NGS Name: B 117

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0817](#) [Get Map](#)
 NGS Quad / Sta Num : 44093132/
 USGS Quad: NEW MARKET

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	113 N	20 W	443514.10	931612.78	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1973	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
WALL	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** B 117 1934

3.3 MILES NORTHEAST OF THE RAILROAD STATION AT ELKO, 181.5 FEET SOUTHWEST OF A RAILROAD MILEPOST 7, AT A ROAD CROSSING, IN THE SOUTHEAST CORNER OF A COUNTY ROAD 80 BOX CULVERT, 18.5 FEET SOUTH OF COUNTY ROAD 80, 106.0 FEET EAST OF COUNTY ROAD 9, 83.0 FEET WEST OF A RAILROAD.

Station Notes

THE BOX CULVERT HAS BEEN REPLACED AND RAILROAD REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1019.959	0.016	310.884	0.005	2/0	1991	00000025
NGVD29	1019.814	0.016	310.840	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.217 12B = -91.220 09 = -91.178 03 = -90.981

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7314.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7314.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: B 27

NGS Name: B 27

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1477](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	25	115 N	19 W	444446.07	930238.28	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2009	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2006) **Stamping:** B 27 1933

AT ROSEMONT, 1100.0 FEET WEST OF THE JUNCTION OF TRUNK HIGHWAY 52/TRUNK HIGHWAY 56 AND COUNTY ROAD 38, AT TRUNK HIGHWAY 52 STATION 561+00, 35.0 FEET SOUTH OF COUNTY ROAD 38 (140TH STREET), 30.0 FEET EAST-SOUTHEAST OF A POWER POLE, 2.0 FEET SOUTHWEST OF A FENCE CORNER, 0.5 FOOT WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	859.559	0.016	261.994	0.005	2/1	2013	00000781
NGVD29	859.408	0.016	261.948	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.178 12B = -92.165 09 = -92.116 03 = -91.936

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 44 46.06764	93 02 38.28286	570856.167	200085.244	173997.308	60986.104	233.897		2012	GPS2800
NAD83 (2007)	44 44 46.06783	93 02 38.28382	570856.098	200085.263	173997.287	60986.110	233.913	C	2009	GPS2590
NAD83 (1996)	44 44 46.06756	93 02 38.28333	570856.134	200085.236	173997.298	60986.102	233.964	C	2009	HINVR

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/B_27-PP1477-3SE-17MAR2009.jpg	SE	Mar 17, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/B_27-PP1477-2-17MAR2009.jpg		Mar 17, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/B_27-PP1477-1-17MAR2009.jpg		Mar 17, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7315.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7315.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BECO MNDT

NGS Name: BECO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: AC5058	Get Map
NGS Quad / Sta Num : 44093121/	
USGS Quad: COATES	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	114 N	19 W	443815.24	930318.87		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2006) **Stamping:** BECO 1988

3.0 MILES WEST-NORTHWEST OF HAMPTON, 4.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 THEN 0.5 MILE NORTH ON COUNTY ROAD 79, 23.0 FEET EAST OF COUNTY ROAD 79, 18.0 FEET SOUTH OF BLAHA AVENUE, 129.0 FEET NORTH-NORTHWEST OF A POWER POLE, 54.8 FEET NORTHWEST OF BECO RM 2, 36.5 FEET WEST-SOUTHWEST OF A WITNESS POST, 4.0 FEET NORTH EDGE OF BLAHA AVENUE, 5.0 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.517 12B = -93.507 09 = -93.455 03 = -93.271

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 38 15.23900	93 03 18.87280	568053.640	160493.666	173143.096	48918.567	249.366			2012	GPS2800	
NAD83 (2007)	44 38 15.23913	93 03 18.87351	568053.589	160493.679	173143.080	48918.571	249.391			2007	GPS2300	
NAD83 (1996)	44 38 15.23910	93 03 18.87390	568053.561	160493.675	173143.072	48918.570	249.421	C		2004	GPS2041	
NAD83 (1986)	44 38 15.23154	93 03 18.86954	568053.880	160492.911	173143.169	48918.337		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO-AC5058-3E-21OCT2022.jpg	E	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO-AC5058-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO-AC5058-1-28AUG2006.jpg		Aug 28, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7316.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7316.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BECO MNDT RM 3

NGS Name: BECO RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	113 N	19 W	443736.79	930320.07		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2003) **Stamping:** BECO NO 3 1988 2003

3.0 MILES WEST-NORTHWEST OF HAMPTON, 0.25 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 79 AND TRUNK HIGHWAY 50, 49.5 FEET WEST OF COUNTY ROAD 79, 15.5 FEET NORTH OF AN ENTRANCE TO A CEMETERY, 5.5 FEET EAST OF A FENCE CORNER, 5.0 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS FOUND LOOSE AND REMOVED. RESET AS BECO MNDT RM 3 RESET. 11-16-2003.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.612 12B = -93.609 09 = -93.556 03 = -93.373

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 37 36.79629	93 03 20.07394	567979.268	156600.061	173120.427	47731.794			C	1989	HCANN	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7317.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7317.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BECO MNDT RM 3 RESET

NGS Name: BECO RM 3 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7762](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	113 N	19 W	443736.80	930320.08		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** BECO NO 3 RESET 1988 2003

3.0 MILES WEST-NORTHWEST OF HAMPTON, 0.25 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 79 AND TRUNK HIGHWAY 50, 49.5 FEET WEST OF COUNTY ROAD 79, 15.5 FEET NORTH OF AN ENTRANCE TO A CEMETERY,

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.612 12B = -93.609 09 = -93.556 03 = -93.373

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 36.80427	93 03 20.07749	567979.009	156600.868	173120.348	47732.040	245.230		2012	GPS2800
NAD83 (2007)	44 37 36.80439	93 03 20.07819	567978.959	156600.880	173120.333	47732.044	245.255		2007	GPS2300
NAD83 (1996)	44 37 36.80425	93 03 20.07839	567978.944	156600.865	173120.328	47732.039	245.290	C	2004	GPS2041

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_3_RESET-DG7762-3E-13NOV2003.jpg	E	Nov 13, 2003
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_3_RESET-DG7762-2-13NOV2003.jpg		Nov 13, 2003
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_3_RESET-DG7762-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_50565.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50565.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BECO MNDT RM 3 RESET 2

NGS Name: BECO RM 3 RESET 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1048](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	2	113 N	19 W	443736.80	930320.08	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** BECO NO 3 2003 2014

4.8 MILES EAST OF FARMINGTON, 4.05 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAYS 50 AND 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 14.75, THEN 0.25 MILE SOUTH ON COUNTY ROAD 79 (BLAINE AVENUE), 49.5 FEET WEST OF COUNTY ROAD 79, 15.5 FEET NORTH OF DRIVEWAY NUMBER 2225 (AN ENTRANCE TO A CEMETERY), 31.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	897.964	0.016	273.700	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.612 12B = -93.609 09 = -93.556 03 = -93.373

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_3_RESET_2-DQ1048-3W-21OCT2022.jpg	W	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_3_RESET_2-DQ1048-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_3_RESET_2-DQ1048-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102822.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102822.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BECO RM 2

NGS Name: BECO RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1049](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	114 N	19 W	443814.81	930318.40	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** BECO NO 2 1988

4.8 MILES EAST OF FARMINGTON, 4.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON TO TRUNK HIGHWAY 50 MILEPOINT 14.75, THEN 0.5 MILE NORTH ON COUNTY ROAD 79 (BLAINE AVENUE), 56.0 FEET EAST OF COUNTY ROAD 79, 48.8 FEET SOUTH OF BLAHA BOULEVARD, 35.0 FEET NORTH-NORTHEAST OF A POWER POLE NUMBER 258.19, 13.4 FEET NORTH-NORTHEAST OF A TELEPHONE PEDESTAL NUMBER 21476, 0.4 FOOT WEST OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	912.259	0.016	278.057	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.520 12B = -93.510 09 = -93.458 03 = -93.274

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_2-DQ1049-3E-21OCT2022.jpg	E	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_2-DQ1049-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BECO_RM_2-DQ1049-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63108.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63108.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BESKAU

NGS Name: BESKAU

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP1343](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	114 N	18 W	444004.94	925714.76		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2001	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** BESKAU 2001

0.6 MILE SOUTHEAST OF VERMILLION, 0.38 MILE SOUTH ALONG COUNTY ROAD 85 FROM THE JUNCTION OF COUNTY ROAD 85 AND COUNTY ROAD 62 IN VERMILLION, 38.5 FEET EAST OF COUNTY ROAD 85, 58.7 FEET SOUTH OF A TELEPHONE PEDESTAL, 24.0 FEET SOUTH OF A FIELD ENTRANCE, 2.0 FEET WEST OF A WITNESS POST.

Station Notes

THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.577 12B = -94.560 09 = -94.498 03 = -94.350

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 40 04.93795	92 57 14.76431	594332.994	171704.402	181153.059	52335.606	239.295			2014	GPS2983	
NAD83 (1996)	44 40 04.93787	92 57 14.76505	594332.940	171704.394	181153.043	52335.604	239.345	C		2014	HDAKR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BESKAU-DP1343-3E-19OCT2022.jpg	E	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BESKAU-DP1343-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BESKAU-DP1343-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94453.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94453.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BETTY

NGS Name: BETTY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4914](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	27 N	24 W	444636.15	931711.54	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** BETTY 2011

IN BURNSVILLE, 0.54 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W IN BURNSVILLE, THEN 0.1 MILE NORTH ALONG NICOLLET AVENUE SOUTH, THEN 0.14 MILE WESTERLY ALONG RIVER RIDGE LANE, THEN 300.0 FEET SOUTHERLY ALONG RIVER RIDGE BOULEVARD, THEN 0.3 MILE WESTERLY ALONG THE ENTRANCE RAMP TO INTERSTATE HIGHWAY 35W TO INTERSTATE HIGHWAY 35W MILEPOINT 2.83, 450.0 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W, 87.5 FEET NORTHEAST OF A RAMP LIGHT, 71.2 FEET NORTHEAST OF THE EASTERLY RAMP TO INTERSTATE HIGHWAY 35W NORTH, 19.6 FEET SOUTHWEST OF A FENCE, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: PAUL - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	820.632	0.016	250.129	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.317 12B = -89.317 09 = -89.252 03 = -89.062

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 36.15067	93 17 11.54481	507823.724	211117.129	154784.981	64348.630	222.901			2022	GPS3553	
NAD83 (1996)	44 46 36.15036	93 17 11.54495	507823.714	211117.097	154784.978	64348.620	222.983	C		2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BETTY-DO4914-3NE-12JUL2023.jpg	NE	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BETTY-DO4914-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BETTY-DO4914-1-12JUL2023.jpg		Jul 12, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95067.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95067.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLACDOG MN037

NGS Name: BLACDOG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	27 N	24 W	444719.32	931631.15		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2020	DISTURBED	Horz=NO Vert=YES	YES		PROJECTS 4 IN.	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE POST (PREFABRICATED)	SURVEY DISK	MN-037

Description: (2006) **Stamping:** BLACDOG 1988

IN BURNSVILLE, 0.8 MILE EAST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND COUNTY ROAD 32 (CLIFF ROAD) THEN NORTHEAST THROUGH THE BLACKDOG PRESERVE PARKING LOT, 150.0 FEET EAST OF A ROUND CONCRETE MAINTENANCE BUILDING AT THE END OF A CUL-DE-SAC, 60.0 FEET WEST OF THE BLACK DOG PRESERVE INFORMATION STATION, 8.0 FEET NORTH OF A WALKING TRAIL, 13.5 FEET WEST OF A GUARD POST, 70.0 FEET SOUTH OF A RAILROAD.

Station Notes

COUNTY RAN LEVELS TO STATION IN 1992. THE DAKOTA COUNTY SURVEY OFFICE FOUND THE MONUMENT TIPPED WEST-NORTHWEST 2/4/2020.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.337 12B = -89.340 09 = -89.268 03 = -89.084

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 47 19.30469	93 16 31.14317		510735.993	215489.015	155672.642	65681.183		C	1989	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLACDOG-3N-05OCT2011.jpg	N	Oct 5, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLACDOG-2-07FEB2020.jpg		Feb 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLACDOG-1-07FEB2020.jpg		Feb 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7318.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7318.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLAINE MN037

NGS Name: BLAINE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5059](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	113 N	19 W	443420.75	930336.87		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	1999	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 2 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MNDT

Description: (1991) **Stamping:** BLAINE 1991

4.0 MILES SOUTHWEST OF HAMPTON, 4.0 MILES NORTHWEST OF RANDOLPH, IN CASTLE ROCK TOWNSHIP, 0.2 MILE WEST ALONG COUNTY ROAD 80S (260TH STREET) FROM THE JUNCTION OF COUNTY ROAD 80S AND COUNTY ROAD 79 (BLAINE AVENUE), 21.0 FEET SOUTH OF COUNTY ROAD 80S, 14.0 FEET WEST OF A FIELD ENTRANCE, 45.0 FEET NORTHWEST OF A POWER POLE, 3.0 FEET NORTHEAST OF A WITNESS POST, THE STATION IS BURIED 0.2 FOOT BELOW THE GROUND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.947 12B = -93.957 09 = -93.904 03 = -93.740

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 34 20.75214	93 03 36.87444	566826.713	136741.707	172769.128	41678.956	291.853		2012	GPS2800
NAD83 (2007)	44 34 20.75224	93 03 36.87516	566826.661	136741.717	172769.112	41678.959	291.875		2007	GPS2300
NAD83 (1996)	44 34 20.75196	93 03 36.87502	566826.671	136741.689	172769.115	41678.950	291.928	C	2000	GPS1517
NAD83 (1986)	44 34 20.74469	93 03 36.87295	566826.822	136740.954	172769.161	41678.726		C	1992	C019

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7319.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7319.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLAINE MN037 RESET

NGS Name: BLAINE RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>			
NE	26	113 N	19 W	443420.75	930336.87					
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>			
1999	2011	NOT FOUND	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET			

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-037

Description: (1999) **Stamping:** BLAINE 1999 RESET

4.0 MILES SOUTHWEST OF HAMPTON, IN CASTLE ROCK TOWNSHIP, 4.0 MILES NORTHWEST OF RANDOLPH, 0.2 MILE WEST ALONG COUNTY ROAD 805 (260TH STREET) FROM THE JUNCTION OF COUNTY ROAD 805 AND COUNTY ROAD 79 (BLAINE AVENUE), 21.0 FEET SOUTH OF COUNTY ROAD 805, 14.0 FEET WEST OF A FIELD ENTRANCE, 83.0 FEET SOUTHWEST OF A POWER POLE, 3.0 FEET NORTHEAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.947 12B = -93.957 09 = -93.904 03 = -93.740

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLAINE_RESET-3S-24OCT2006.jpg	S	Oct 24, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLAINE_RESET-2-24OCT2006.jpg		Oct 24, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLAINE_RESET-1-24OCT2006.jpg		Oct 24, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64105.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64105.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLEEDS MNDT

NGS Name: BLEEDS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2603](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	114 N	20 W	443755.24	930926.32	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2022	NOT FOUND	Horz=YES Vert=YES	YES		RECESSED 5 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** BLEEDS 1980

IN FARMINGTON, 1.0 MILE WEST ALONG ASH STREET FROM THE JUNCTION OF ASH STREET, TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON. THEN 0.1 MILE NORTH ON DENMARK AVENUE (COUNTY ROAD 31), 46.0 FEET WEST OF DENMARK AVENUE, 9.0 FEET NORTH OF THE EXTENDED CENTERLINE OF HICKORY STREET, 7.8 FEET SOUTH- SOUTHWEST OF A WITNESS POST, 29.15 FEET NORTH OF BLEEDS RM 2, 32.8 FEET SOUTH OF BLEEDS RM 1.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	913.059	0.016	278.301	0.005	2/1	2016	00000879
NGVD29	912.987	0.016	278.279	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -92.270 12B = -92.280 09 = -92.221 03 = -92.008

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 37 55.24038	93 09 26.31683	541487.485	158399.629	165045.716	48280.304	250.181			2016	GPS3148			
NAD83 (2007)	44 37 55.24050	93 09 26.31754	541487.433	158399.641	165045.700	48280.307	250.204			2007	GPS2300			
NAD83 (1996)	44 37 55.24027	93 09 26.31728	541487.452	158399.618	165045.706	48280.300	250.256	C		2016	HDAK2			
NAD83 (1986)	44 37 55.23232	93 09 26.31657	541487.506	158398.814	165045.722	48280.055		C		1991	H1991			
NAD27	44 37 55.35739	93 09 25.53631							2	1982	16778			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS-PP2603-3W-12SEP2011.jpg	W	Sep 12, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS-PP2603-2-12SEP2011.jpg		Sep 12, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS-PP2603-1-12SEP2011.jpg		Sep 12, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7320.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7320.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLEEDS RM 1

NGS Name: BLEEDS RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3377](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	114 N	20 W	443755.56	930926.32	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** BLEEDS NO 1 1980

IN FARMINGTON, 1.0 MILE WEST ALONG ASH STREET FROM THE JUNCTION OF ASH STREET, TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON. THEN 0.1 MILE NORTH ON DENMARK AVENUE (COUNTY ROAD 31), 45.5 FEET WEST OF COUNTY ROAD 31 (DENMARK AVENUE), 32.8 FEET NORTH OF STATION BLEEDS MNDT, 61.9 FEET NORTH OF BLEEDS RM 2, 1.2 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	912.433	0.016	278.110	0.005	2/1	2016	00000879
NGVD29	912.301	0.016	278.070	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -92.270 12B = -92.277 09 = -92.221 03 = -92.004

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS_RM_1-PP3377-3W-31OCT2022.jpg	W	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS_RM_1-PP3377-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS_RM_1-PP3377-1-12SEP2011.jpg		Sep 12, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7321.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7321.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLEEDS RM 2

NGS Name: BLEEDS RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3378](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	114 N	20 W	443754.95	930926.33	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2022	NOT FOUND	Horz=YES Vert=YES	YES		RECESSED 3 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** BLEEDS NO 2 1980

IN FARMINGTON, 1.0 MILE WEST ALONG ASH STREET FROM THE JUNCTION OF ASH STREET, TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON. THEN 0.1 MILE NORTH ON DENMARK AVENUE (COUNTY ROAD 31), 45.5 FEET WEST OF COUNTY ROAD 31 (DENMARK AVENUE), 19.0 FEET SOUTH OF A FIELD ENTRANCE, 29.15 FEET SOUTH OF STATION BLEEDS MNDT, 61.9 FEET SOUTH OF BLEEDS RM 1, 1.2 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	913.243	0.016	278.357	0.005	2/1	2016	00000879
NGVD29	913.141	0.016	278.326	0.005	2/1	1985	VLAKE

Geoid Separations(ft): GEOID18 = -92.270 12B = -92.280 09 = -92.224 03 = -92.008

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS_RM_2-PP3378-3W-03NOV2014.jpg	W	Nov 3, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS_RM_2-PP3378-2-03NOV2014.jpg		Nov 3, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLEEDS_RM_2-PP3378-1-03NOV2014.jpg		Nov 3, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7322.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7322.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLUE MN037

NGS Name: BLUE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	27 N	23 W	444910.59	931228.78		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1988) **Stamping:** BLUE 1988

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 13 AND SILVER BELL ROAD, 160.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 13, 80.0 FEET NORTH OF SILVER BELL ROAD, 6.0 FEET WEST OF A DITCH, 1.5 FEET SOUTHWEST OF A WITNESS POST, 200.0 FEET SOUTHEAST OF TRAFFIC SIGNAL LIGHTS, 60.0 FEET NORTHWEST OF A POWER POLE, 175.0 FEET NORTHEAST OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.678 12B = -89.678 09 = -89.590 03 = -89.432

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 49 10.59316	93 12 28.78482	528200.541	226776.364	160995.847	69121.574			C	1988	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7323.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7323.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BLUFF MN037

NGS Name: BLUFF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	27 N	24 W	444754.50	931521.43		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 3 FT)	SURVEY DISK	MN-037

Description: (2006) **Stamping:** BLUFF 1988

IN BURNSVILLE, 0.8 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND COUNTY ROAD 32 (CLIFF ROAD) THEN 0.35 MILE NORTH ON 12TH AVENUE THEN 0.15 MILE EAST ON 115TH STREET EAST THEN 0.15 MILE NORTH ON RUPP DRIVE, 12.0 FEET SOUTHWEST OF THE END OF A HANDRAIL, 7.5 FEET WEST OF A CURB ON JOSTENS PARKING LOT (ADDRESS 11300), IN THE GRASSY AREA, 69.0 FEET SOUTH-SOUTHWEST OF AN OFFICE BUILDING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.426 12B = -89.426 09 = -89.350 03 = -89.173

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 47 54.49098	93 15 21.42296	515761.760	219055.812	157204.499	66768.345		C	1989	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLUFF-3NE-20JUL2023.jpg	NE	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLUFF-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BLUFF-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7324.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7324.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BM RR BRIDGE

NGS Name: BM RR BRIDGE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	16	28 N	22 W	445505.00	930305.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2023	GOOD	Horz=NO Vert=NO	YES	RR	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	SEE DESCRIPTION	USACE

Description: (2011)

Stamping:

2.0 MILES NORTH OF SOUTH ST. PAUL, STATION BM RR BRIDGE IS A BRASS PLUG IN THE WEST ABUTMENT OF A RAILROAD BRIDGE, 5.0 FEET SOUTH OF A RAILROAD, ON THE WEST SIDE OF THE MISSISSIPPI RIVER. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS IN GOOD CONDITION BUT NOT USABLE (UNDER A METAL GRATE). THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.413 12B = -90.416 09 = -90.334 03 = -90.167

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BM_RR_BRIDGE-3E-27NOV2006.jpg	E	Nov 27, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BM_RR_BRIDGE-2-27NOV2006.jpg		Nov 27, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BM_RR_BRIDGE-1-27NOV2006.jpg		Nov 27, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7325.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7325.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BORDER

NGS Name: BORDER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0963](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	16	27 N	22 W	444926.84	930324.06	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** BORDER 2015

IN INVER GROVE HEIGHTS, 0.8 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 56 (CONCORD BOULEVARD) IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 52 MILEPOINT 121.8, 46.0 FEET SOUTHWEST OF A NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 30.0 FEET NORTHEAST FROM A BROWN MINNESOTA DEPARTMENT OF TRANSPORTATION ELECTRICAL BUILDING, 1.5 FEET NORTHEAST OF A WITNESS POST.

Station Pair: BOWER - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	932.042	0.016	284.087	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.079 12B = -91.079 09 = -91.023 03 = -90.840

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 49 26.84452	93 03 24.06021		567461.376	228511.175	172962.573	69650.345	256.319		2016	GPS3146
NAD83 (1996)	44 49 26.84438	93 03 24.06061		567461.347	228511.160	172962.565	69650.341	256.382	C	2016	HCOAT

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORDER-DQ0963-3SW-15AUG2023.jpg	SW	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORDER-DQ0963-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORDER-DQ0963-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103408.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103408.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BORG MN037

NGS Name: BORG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5081](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	112 N	20 W	443237.81	931422.76		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 9 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2011) **Stamping:** BORG 1992

7.5 MILES NORTHWEST OF NORTHFIELD, IN GREENVALE TOWNSHIP, 2.2 MILES EAST ALONG DAKOTA COUNTY ROAD 86 FROM THE JUNCTION OF DAKOTA COUNTY ROAD 86 AND SCOTT COUNTY ROAD 46, 1.6 MILES WEST ALONG COUNTY ROAD 86 FROM THE WEST JUNCTION OF COUNTY ROAD 86 AND COUNTY ROAD 23, 400.0 FEET EAST OF HOLYOKE AVENUE, 21.0 FEET SOUTH OF COUNTY ROAD 86, 12.0 FEET EAST OF A FIELD ENTRANCE, 8.7 FEET NORTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.932 12B = -91.942 09 = -91.896 03 = -91.716

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 32 37. 81347	93 14 22. 76083	520079. 730	126220. 815	158520. 619	38472. 181	284. 126		2014	GPS3021
NAD83 (2007)	44 32 37. 81348	93 14 22. 76162	520079. 672	126220. 816	158520. 601	38472. 182	284. 161		2007	GPS2300
NAD83 (1996)	44 32 37. 81330	93 14 22. 76085	520079. 728	126220. 798	158520. 618	38472. 176	284. 205	C	2012	HNORTH
NAD83 (1986)	44 32 37. 80569	93 14 22. 75889	520079. 872	126220. 026	158520. 662	38471. 941		C	1992	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORG-AC5081-3E-01AUG2017.jpg	E	Aug 1, 2017
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORG-AC5081-2-01AUG2017.jpg		Aug 1, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORG-AC5081-1-01AUG2017.jpg		Aug 1, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7326.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7326.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BORG MN037 RESET

NGS Name: BORG RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6184](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	112 N	20 W	443237.81	931422.76		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 9 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** BORG 1992 2014

7.5 MILES NORTHWEST OF NORTHFIELD, IN GREENVALE TOWNSHIP, 2.2 MILES EAST ALONG DAKOTA COUNTY ROAD 86 FROM THE JUNCTION OF DAKOTA COUNTY ROAD 86 AND SCOTT COUNTY ROAD 46, 1.6 MILES WEST ALONG COUNTY ROAD 86 FROM THE WEST JUNCTION OF COUNTY ROAD 86 AND COUNTY ROAD 23, 400.0 FEET EAST OF HOLYOKE AVENUE, 21.0 FEET SOUTH OF COUNTY ROAD 86, 12.0 FEET EAST OF A FIELD ENTRANCE, 8.7 FEET NORTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.932 12B = -91.942 09 = -91.896 03 = -91.716

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 37. 81333	93 14 22. 76083	520079. 730	126220. 801	158520. 619	38472. 177	284. 084	2015	GPS3054			
NAD83 (1996)	44 32 37. 81333	93 14 22. 76091	520079. 724	126220. 801	158520. 617	38472. 177	284. 147	C	2014	HBUCK		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORG_RESET-DP6184-3S-01NOV2022.jpg	S	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORG_RESET-DP6184-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BORG_RESET-DP6184-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102126.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102126.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BOWER

NGS Name: BOWER

County: DAKOTA, MN (Sheet 1)

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	27 N	22 W	444942.41	930331.12	2	C

NGS ACRN: DQ0962	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** BOWER 2015

IN INVER GROVE HEIGHTS, 0.5 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY MILEPOINT 122.3, 39.1 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 0.35 MILE SOUTH OF COUNTY ROAD 28 (80TH STREET EAST), 1.5 FEET WEST OF A WITNESS POST.

Station Pair: BORDER - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	914.965	0.016	278.882	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.010 12B = -91.010 09 = -90.955 03 = -90.768

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 49 42.40766	93 03 31.12140	566947.422	230085.785	172805.920	70130.287	251.134	2016	C	GPS3146		
NAD83 (1996)	44 49 42.40751	93 03 31.12178	566947.394	230085.769	172805.911	70130.283	251.195	2016	C	HCOAT		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BOWER-DQ0962-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BOWER-DQ0962-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BOWER-DQ0962-1-07MAY2015.jpg		May 7, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103409.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103409.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BOYD

NGS Name: BOYD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DQ0996	Get Map
NGS Quad / Sta Num : 44093211/	
USGS Quad: DENNISON	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	112 N	19 W	442911.33	930256.83	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** BOYD 2014

6.0 MILES NORTHEAST OF NORTHFIELD, 5.9 MILES EAST ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD TO TRUNK HIGHWAY 19 MILEPOINT 182.4, THEN 0.95 MILE NORTH OF BOYD AVENUE, THEN 0.02 MILE EAST ON 320TH STREET EAST, 91.5 FEET EAST OF BOYD AVENUE, 42.0 FEET NORTH OF 320TH STREET EAST, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	965.756	0.016	294.363	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -94.485 12B = -94.491 09 = -94.455 03 = -94.327

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 29 11.32774	93 02 56.83439	569828.231	105414.183	173683.992	32130.307	265.566			2016	GPS3152	
NAD83 (1996)	44 29 11.32762	93 02 56.83472	569828.208	105414.171	173683.985	32130.304	265.630	C		2016	HDAK2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BOYD-DQ0996-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BOYD-DQ0996-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BOYD-DQ0996-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102045.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102045.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19035 SE
County: DAKOTA, MN (Sheet 1)

NGS Name: BR 19035 SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	27 N	22 W	444747.90	930214.90		

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2023	GOOD	Horz=NO Vert=NO	YES	19035	FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	SURVEY DISK	MNDT

Description: (2009)

Stamping:

IN INVER GROVE HEIGHTS, IN THE SOUTHEAST CORNER OF COURTHOUSE BOULEVARD BRIDGE NUMBER 19035 OVER THE RAILROAD TRACKS, 0.1 MILE EAST ALONG 117TH STREET EAST FROM THE JUNCTION OF 117TH STREET EAST AND TRUNK HIGHWAY 52 IN INVER GROVE HEIGHTS, THEN 1.3 MILES WEST AND NORTH ON COURTHOUSE BOULEVARD EAST, 26.0 FEET EAST OF COURTHOUSE BOULEVARD EAST, UNDER A PEDESTRIAN RAIL.

Station Notes

IF THE COORDINATES AND/OR ELEVATIONS ARE ESTABLISHED OR PUBLISHED ON THIS GEODETIC CONTROL DISK, THEY SHOULD BE USED WITH CAUTION. THE GEODETIC CONTROL DISK IS LOCATED ON AN INTEGRAL ABUTMENT AND/OR A JOINT LESS BRIDGE AND IS SUBJECT TO MOVEMENT BEYOND GEODETIC TOLERANCES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.634 12B = -91.621 09 = -91.575 03 = -91.411

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19035_SE-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19035_SE-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19035_SE-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104917.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104917.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19081 SE

NGS Name: BR 19081 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 44093113/
USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	22	115 N	20 W	444534.60	931302.20		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2023	GOOD	Horz=NO Vert=NO	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2017) **Stamping:** BR 19081 SE 2017

IN APPLE VALLEY IN THE SOUTHEAST CORNER OF COUNTY ROAD 38 OF BRIDGE NUMBER 19081 OVER TRUNK HIGHWAY 77 (CEDAR AVENUE). IN APPLE VALLEY, 35.0 FEET SOUTH OF COUNTY ROAD 38. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.029 12B = -90.033 09 = -89.974 03 = -89.773

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19081_SE-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19081_SE-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19081_SE-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108658.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108658.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19082 SE

NGS Name: BR 19082 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9206](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	15	115 N	20 W	444556.69	931301.84	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1983	2023	GOOD	Horz=NO Vert=YES	YES	19082	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	BENCH MARK DISK	MNDT

Description: (2014) **Stamping:** BR 19082 SE

IN APPLE VALLEY, IN A BRIDGE WALKWAY IN THE SOUTHEAST CORNER OF PALOMINO DRIVE BRIDGE NUMBER 19082 OVER TRUNK HIGHWAY 77, 33.0 FEET SOUTH OF PALOMINO DRIVE, 28.0 FEET WEST OF THE EAST END OF A BRIDGE RAILING, 3.0 FEET WEST OF STATION 1929 G, 1.1 FEET WEST OF THE EDGE OF A BRIDGE RAILING.

Station Notes

NO GOOD FOR GPS WORK, THE MARK IS IN A BRIDGE DECK.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1025.605	0.016	312.605	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.970 12B = -89.974 09 = -89.915 03 = -89.714

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19082_SE-DP9206-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19082_SE-DP9206-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19082_SE-DP9206-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94487.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94487.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19088 SE

NGS Name: BR 19088 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ9268](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	28 N	23 W	445258.30	931011.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2023	GOOD	Horz=NO Vert=YES	YES	19088	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2016) **Stamping:** BR 19088 SE 2016

IN MENDOTA HEIGHTS, IN A RAIL IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 19088 OVER SIBLEY MEMORIAL HIGHWAY, 0.9 MILE SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 5 IN FORT SNELLING, AT TRUNK HIGHWAY 55 MILEPOINT 199.1, 11.0 FEET SOUTH-SOUTHWEST OF AN EASTBOUND TRUNK HIGHWAY 55 FOG LINE, 22.0 FEET WEST-NORTHWEST OF THE END OF A RAIL. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes
 THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	837.718	0.016	255.337	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.662 12B = -89.659 09 = -89.577 03 = -89.426

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19088_SE-DQ9268-3S-01AUG2023.jpg	S	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19088_SE-DQ9268-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19088_SE-DQ9268-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_105235.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_105235.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19094 SE
County: DAKOTA, MN (Sheet 1)

NGS Name: BR 19094 SE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	114 N	19 W	443858.40	930811.52		3

NGS ACRN: [Get Map](#)
NGS Quad / Sta Num : 44093124/
USGS Quad: FARMINGTON

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2022	DESTROYED	Horz=NO Vert=NO	YES	19094	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2011) **Stamping:** BR 19094 SE 2003

IN FARMINGTON, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF TRUNK HIGHWAY 3 BRIDGE NUMBER 19094 OVER THE VERMILLION RIVER, 0.65 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND WESTBOUND COUNTY ROAD 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 26.65, 105.0 FEET NORTH OF COUNTY ROAD 66 (VERMILLION RIVER TRAIL), 32.0 FEET EAST OF TRUNK HIGHWAY 3.

Station Notes

IF THE COORDINATES AND/OR ELEVATIONS ARE ESTABLISHED OR PUBLISHED ON THIS GEODETIC CONTROL DISK, THEY SHOULD BE USED WITH CAUTION. THE GEODETIC CONTROL DISK IS LOCATED ON AN INTEGRAL ABUTMENT AND/OR A JOINT LESS BRIDGE AND IS SUBJECT TO MOVEMENT BEYOND GEODETIC TOLERANCES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.372 12B = -92.375 09 = -92.319 03 = -92.103

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19094_SE-3N-31OCT2022.jpg	N	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19094_SE-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19094_SE-1-03NOV2014.jpg		Nov 3, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94315.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94315.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19095 SE
County: DAKOTA, MN (Sheet 1)

NGS Name: BR 19095 SE

Table with columns: 1/4, Sec, Twp, Rng, Reference Latitude, Reference Longitude, Vert Order, Horz Order. Values: NE 18 112 N 19 W, 443042.52, 930843.57, 3.

NGS ACRN:
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK
Get Map

Table with columns: Year Set, Last Recovery, Condition, Geodetic Usability, Photos, Bridge Num, F/P/R, Magnetic Properties, Monument Type, Disk Type, Mon. Agency. Values: 2003, 2022, GOOD, Horz=NO Vert=NO, YES, 19095, FLUSH, NO MAG MATERIAL, BRIDGE RAILING, SURVEY DISK, MNDT.

Description: (2011) Stamping: BR 19095 SE 2003

3.8 MILES NORTH OF NORTHFIELD, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF BRIDGE NUMBER 19095 OVER CHUB CREEK, 2.15 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD, AT TRUNK HIGHWAY 3 MILEPOINT 17.05, 24.0 FEET EAST OF TRUNK HIGHWAY 3.

Station Notes
IF THE COORDINATES AND/OR ELEVATIONS ARE ESTABLISHED OR PUBLISHED ON THIS GEODETIC CONTROL DISK, THEY SHOULD BE USED WITH CAUTION. THE GEODETIC CONTROL DISK IS LOCATED ON AN INTEGRAL ABUTMENT AND/OR A JOINT LESS BRIDGE AND IS SUBJECT TO MOVEMENT BEYOND GEODETIC TOLERANCES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.192 12B = -93.218 09 = -93.166 03 = -93.008

* No Horizontal Positions in the Database *

Station Photos

Table with columns: Type, File Name, Dir, Date. Rows for Location, Monument, and Disk with corresponding file URLs and dates (Oct 25, 2022).

** All station images can be viewed at: ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94455.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94455.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19514 SE

NGS Name: BR 19514 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	14	112 N	19 W	443011.42	930446.85		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2022	GOOD	Horz=NO Vert=YES	YES	19514	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** BR 19514 SE

4.0 MILES NORTHEAST OF NORTHFIELD, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF COUNTY ROAD BRIDGE NUMBER 19514 OVER THE CANNON RIVER, 2.15 MILES NORTH ALONG COUNTY ROAD 59 (ALTA AVENUE) FROM THE JUNCTION OF COUNTY ROAD 59 (ALTA AVENUE) AND TRUNK HIGHWAY 19, 19.0 FEET EAST OF COUNTY ROAD 59 (ALTA AVENUE), 39.5 FEET NORTH OF SCIOTA TRAIL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.048 12B = -94.065 09 = -94.019 03 = -93.881

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19514_SE-3E-25OCT2022.jpg	E	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19514_SE-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19514_SE-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94458.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94458.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19522 SE

NGS Name: BR 19522 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	24	115 N	21 W	444508.30	931708.40			1984	2023	GOOD	Horz=NO Vert=NO	YES	19522	FLUSH	NO MAG MATERIAL
						<u>Disk Type</u>	<u>Mon. Agency</u>								
						BENCH MARK DISK	MNDT								

Description:

Stamping:

IN THE RAILING IN THE SOUTHEAST CORNER OF A COUNTY ROAD 38 (MCANDREWS STREET) BRIDGE NUMBER 19522 OVER INTERSTATE HIGHWAY 35 WEST FROM THE JUNCTION OF COUNTY ROAD 39 (MCANDREWS STREET) AND INTERSTATE HIGHWAY 35 WEST IN BURNSVILLE, 9.0 FEET WEST OF THE SOUTHERLY EDGE OF A BRIDGE RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

UNDER A FENCE RUNNING ALONG THE TOP OF A RAILING. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.462 12B = -89.455 09 = -89.406 03 = -89.216

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19522_SE-3S-11JUL2023.jpg	S	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19522_SE-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19522_SE-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94509.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94509.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19527 SE

NGS Name: BR 19527 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	25	115 N	21 W	444442.85	931657.00		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2023	GOOD	Horz=NO Vert=NO	YES	19527	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** BR 19527 SE

IN A RAILING IN THE SOUTHEAST CORNER OF COUNTY ROAD 42 BRIDGE NUMBER 19527 OVER TRUNK HIGHWAY 35W FROM THE JUNCTION OF TRUNK HIGHWAY 35W AND COUNTY ROAD 42 IN BURNSVILLE, 29.0 FEET WEST OF THE EAST EDGE OF A RAILING. NEW RAILING AND FENCE, POST OVER TOP OF DISK. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes
 NEW RAILING AND FENCE, POST OVER TOP OF DISK. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.544 12B = -89.534 09 = -89.488 03 = -89.294

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19527_SE-3S-11JUL2023.jpg	S	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19527_SE-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19527_SE-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94511.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94511.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19532

NGS Name: BR 19532

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	31	114 N	19 W	443825.25	930904.70		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1995	2022	GOOD	Horz=NO Vert=YES	YES	19532	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2014)

Stamping: BR 19532 1995

IN FARMINGTON, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF COUNTY ROAD 50 (ELM STREET) BRIDGE NUMBER 19532 OVER THE VERMILLION RIVER, 0.71 MILE WEST ALONG COUNTY ROAD 50 FROM THE JUNCTION OF COUNTY ROAD 50 AND TRUNK HIGHWAY3 IN FARMINGTON, 30.0 FEET SOUTH OF COUNTY ROAD 50.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.270 12B = -92.277 09 = -92.221 03 = -92.004

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19532-3S-31OCT2022.jpg	S	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19532-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19532-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36376.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36376.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19541 SE

NGS Name: BR 19541 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0986](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	29	114 N	18 W	443932.72	930027.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2022	GOOD	Horz=NO Vert=YES	YES	19541	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** BR 19541 SE

0.3 MILE EAST OF EMPIRE, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF COUNTY ROAD 66 (200TH STREET) BRIDGE NUMBER 19541 OVER THE VERMILLION RIVER, 0.3 MILE EAST ALONG COUNTY ROAD 66 (200TH STREET) FROM THE JUNCTION OF COUNTY ROAD 66 (200TH STREET) AND DONNELLY AVENUE, 385.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 24.0 FEET SOUTH OF COUNTY ROAD 66 (200TH STREET).

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	851.114	0.016	259.420	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.888 12B = -93.884 09 = -93.819 03 = -93.642

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19541_SE-DQ0986-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19541_SE-DQ0986-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19541_SE-DQ0986-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94451.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94451.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19542 SE

NGS Name: BR 19542 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	11	112 N	19 W	443143.34	930420.91		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2022	GOOD	Horz=NO Vert=YES	YES	19542	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011) **Stamping:** BR 19542 SE

4.25 MILES NORTHEAST OF NORTHFIELD, IN THE SOUTHEAST ABUTMENT IN THE SOUTHEAST CORNER OF NORTHFIELD BOULEVARD (COUNTY ROAD 47) BRIDGE NUMBER 19542 OVER CHUBB CREEK, 0.09 MILE SOUTHWEST ALONG COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND COUNTY ROAD 88, 24.3 FEET EAST OF COUNTY ROAD 47 (NORTHFIELD BOULEVARD).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.042 12B = -94.058 09 = -94.006 03 = -93.865

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19542_SE-3S-11JUL2023.jpg	S	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19542_SE-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19542_SE-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94322.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94322.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19559 SE

NGS Name: BR 19559 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0987](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	20	114 N	18 W	443939.35	930053.58	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2022	GOOD	Horz=NO Vert=YES	YES	19559	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2011)

Stamping: BR 19559 SE

0.1 MILE NORTH OF EMPIRE, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF DONNELLY AVENUE BRIDGE NUMBER 19559 OVER THE VERMILLION RIVER, 0.1 MILE NORTH ALONG DONNELLY AVENUE FROM THE JUNCTION OF DONNELLY AVENUE AND COUNTY ROAD 66 (200TH STREET) IN EMPIRE, 18.0 FEET EAST OF DONNELLY AVENUE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	849.172	0.016	258.828	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.763 12B = -93.760 09 = -93.691 03 = -93.517

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19559_SE-DQ0987-3E-20OCT2022.jpg	E	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19559_SE-DQ0987-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19559_SE-DQ0987-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94443.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94443.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19803 SE

NGS Name: BR 19803 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
<u>1/4</u>				
<u>Sec</u>				
<u>Twp</u>				
<u>Rng</u>				
SW	444140.12	931724.54		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	YES	19803	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** BR 19803 SE

IN LAKEVILLE, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19803 OVER A RAILROAD, 0.2 MILE SOUTH ALONG INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 50 IN LAKEVILLE, AT TRUNK HIGHWAY 35 MILEPOINT 85.25.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.911 12B = -89.911 09 = -89.852 03 = -89.655

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19803_SE-3N-03NOV2022.jpg	N	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19803_SE-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19803_SE-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94530.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94530.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19805 SE

NGS Name: BR 19805 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7019](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	12	114 N	21 W	444139.07	931723.92	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=NO Vert=YES	NO	19805	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	MNDT

Description: (2012) **Stamping:** BR 19805 SE

IN LAKEVILLE, IN AN ABUTMENT IN THE SOUTHEAST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19805 OVER A RAILROAD, 0.9 MILE NORTH ALONG INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND 185TH STREET WEST.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1054.493	0.016	321.410	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.915 09 = -89.855 03 = -89.659

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19805_SE-DP7019-3N-03NOV2022.jpg	N	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19805_SE-DP7019-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19805_SE-DP7019-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94513.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94513.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19850 SE

NGS Name: BR 19850 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7020](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	36	114 N	21 W	443842.15	931744.28	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2022	GOOD	Horz=NO Vert=YES	YES	19850	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE WALKWAY	SURVEY DISK	MNDT

Description: (2011) **Stamping:** BR 19850 SE

3.8 MILES SOUTH OF LAKEVILLE, IN A SIDEWALK IN THE SOUTHEAST CORNER OF COUNTY ROAD 70 BRIDGE NUMBER 19850 OVER INTERSTATE HIGHWAY 35, 3.8 MILES SOUTH ALONG INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF COUNTY ROAD 50 AND INTERSTATE HIGHWAY 35 IN LAKEVILLE, 43.0 FEET SOUTH OF EASTBOUND COUNTY ROAD 70, 11.3 FEET SOUTH OF A SIDEWALK BARRIER, 1.0 FOOT NORTH OF A BRIDGE WALL.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1108.636	0.016	337.913	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.325 12B = -90.331 09 = -90.279 03 = -90.069

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19850_SE-DP7020-3S-03NOV2022.jpg	S	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19850_SE-DP7020-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19850_SE-DP7020-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94456.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94456.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19903 NW

NGS Name: BR 19903 NW

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	114 N	21 W	444053.88	931737.21		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2005	2022	GOOD	Horz=NO Vert=NO	YES	19903	RECESSED 1 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2011)

Stamping: BR 19903 NW

IN A RAILING IN THE NORTHWEST CORNER OF INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19903 OVER 185TH STREET, 1.5 MILES SOUTH ALONG INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 50 IN LAKEVILLE, 2.6 FEET SOUTH OF THE NORTH EDGE OF A RAILING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.993 12B = -89.997 09 = -89.934 03 = -89.734

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19903_NW-3S-03NOV2022.jpg	S	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19903_NW-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19903_NW-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94538.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94538.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19904 SE

NGS Name: BR 19904 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	114 N	21 W	444051.62	931735.29		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2004	2022	GOOD	Horz=NO Vert=NO	YES	19904	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: **Stamping:** BR 19904 SE

IN LAKEVILLE, IN A RAILING IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 35 BRIDGE NUMBER 19904 OVER 185TH STREET, 1.5 MILES SOUTH ALONG INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 50 IN LAKEVILLE, 40.4 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35, 5.0 FEET NORTH OF THE SOUTH END OF A RAILING

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.003 12B = -90.006 09 = -89.947 03 = -89.747

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19904_SE-3N-03NOV2022.jpg	N	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19904_SE-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19904_SE-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94537.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94537.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19R01 SE

NGS Name: BR 19R01 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1634](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	27 N	22 W	444641.10	930202.50	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2023	GOOD	Horz=NO Vert=NO	YES	19R01	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2009) **Stamping:** BR 19R01 SE

IN PINE BEND, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF 117TH STREET EAST BRIDGE NUMBER 19R01 OVER TRUNK HIGHWAY 55 (COURTHOUSE BOULEVARD), AT TRUNK HIGHWAY 55 MILEPOINT 118.29. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	959.076	0.016	292.327	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.899 12B = -91.883 09 = -91.840 03 = -91.683

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R01_SE-DO1634-3S-15AUG2023.jpg	S	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R01_SE-DO1634-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R01_SE-DO1634-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85807.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85807.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19R02 SE

NGS Name: BR 19R02 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1632](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	115 N	19 W	444456.80	930202.70	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2023	GOOD	Horz=NO Vert=NO	YES	19R02	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	SURVEY DISK	MNDT

Description: (2009) **Stamping:** BR 19R02 SE

2.1 MILES NORTH OF COATES, IN A BRIDGE RAILING IN THE SOUTHEAST CORNER OF NORTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19R02 OVER THE UNION PACIFIC RAILROAD TRACKS, AT TRUNK HIGHWAY 52 MILEPOINT 116.26. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	893.443	0.016	272.322	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -92.267 12B = -92.254 09 = -92.201 03 = -92.027

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R02_SE-DO1632-3N-16AUG2023.jpg	N	Aug 16, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R02_SE-DO1632-2-16AUG2023.jpg		Aug 16, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R02_SE-DO1632-1-01SEP2011.jpg		Sep 1, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85808.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85808.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19R03 NW

NGS Name: BR 19R03 NW

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1633](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	24	115 N	19 W	444459.30	930204.10	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2023	GOOD	Horz=NO Vert=NO	YES	19R03	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	MNDT

Description: (2009) **Stamping:** BR 19R03 NW

2.1 MILES NORTH OF COATES, IN A BRIDGE RAILING IN THE NORTHWEST CORNER OF SOUTHBOUND TRUNK HIGHWAY 52 BRIDGE NUMBER 19R03 OVER THE UNION PACIFIC RAILROAD TRACKS, AT TRUNK HIGHWAY 52 MILEPOINT 116.31. THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK HAS BEEN DEEMED UNSAFE DUE TO FALL RISK AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	898.069	0.016	273.732	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -92.250 12B = -92.237 09 = -92.188 03 = -92.014

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R03_NW-DO1633-3S-16AUG2023.jpg	S	Aug 16, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R03_NW-DO1633-2-16AUG2023.jpg		Aug 16, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R03_NW-DO1633-1-16AUG2023.jpg		Aug 16, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85809.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85809.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 19R04 SE

NGS Name: BR 19R04 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1631](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	6	114 N	18 W	444238.91	930154.60	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2004	2022	GOOD	Horz=NO Vert=NO	YES	19R04	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE CURB	SURVEY DISK	MNDT

Description: (2009)

Stamping: BR 19R04 SE

0.4 MILE SOUTH OF COATES, IN A BRIDGE CURB IN THE SOUTHEAST CORNER OF COUNTY ROAD 46 BRIDGE NUMBER 19R04 OVER TRUNK HIGHWAY 52 AT TRUNK HIGHWAY 52 MILEPOINT 113.56, 8.2 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	946.950	0.016	288.631	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.805 12B = -92.811 09 = -92.743 03 = -92.552

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R04_SE-DO1631-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R04_SE-DO1631-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_19R04_SE-DO1631-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85810.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85810.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 4653

NGS Name: BR 4653

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	115 N	17 W	444328.00	925108.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1966	2006	DESTROYED	Horz=NO Vert=NO	NO	4653	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	VERTICAL CONTROL DISK	MNDT

Description: (1966)

Stamping:

IN HASTINGS, IN THE SOUTHEAST CORNER OF A TRUNK HIGHWAY 291 BRIDGE NUMBER 4653 OVER THE VERMILLION RIVER.

Station Notes

THE BRIDGE WAS REBUILT IN 1988.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.567 12B = -95.554 09 = -95.525 03 = -95.344

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7327.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7327.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BR 96686 SE

NGS Name: BR 96686 SE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1050](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	1	113 N	19 W	443748.98	930243.76	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2022	GOOD	Horz=NO Vert=NO	YES	96686	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	VERTICAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** BR 96686 SE

2.8 MILES NORTHWEST OF HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 15.5, ON THE TOP OF A HEADWALL IN THE SOUTHEAST CORNER OF A BOX CULVERT OF TRUNK HIGHWAY 50 BRIDGE NUMBER 96686 OVER THE SOUTH BRANCH OF THE VERMILLION RIVER, 2.8 MILES NORTHWEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 14 (NORTHFIELD BOULEVARD) IN HAMPTON, 493.0 FEET WEST OF DRIVE TO CASTLE ROCK FARM, 26.5 FEET SOUTH OF TRUNK HIGHWAY 50, 4.0 FEET SOUTH OF A BARRIER.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	874.910	0.016	266.673	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.710 12B = -93.707 09 = -93.651 03 = -93.478

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_96686_SE-DQ1050-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_96686_SE-DQ1050-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BR_96686_SE-DQ1050-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94514.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94514.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BRACK MNDT

NGS Name: BRACK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AF9739](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	13	114 N	21 W	444117.18	931736.21	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** BRACK 1992

3.5 MILES NORTHWEST OF LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 84.8, 0.45 MILE NORTH OF 185TH STREET, 375.0 FEET SOUTH OF 179TH STREET, 100.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35, 19.5 FEET EAST OF A FRONTAGE ROAD (KENYON AVENUE), 8.6 FEET WEST OF A RIGHT-OF-WAY FENCE, 7.6 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1045.067	0.016	318.537	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -89.934 12B = -89.937 09 = -89.875 03 = -89.678

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 41 17.17994	93 17 36.20804	506053.805	178811.739	154245.508	54501.927	291.127			2015	GPS3054	
NAD83 (2007)	44 41 17.18014	93 17 36.20873	506053.756	178811.760	154245.493	54501.933	291.146			2007	GPS2300	
NAD83 (1996)	44 41 17.17977	93 17 36.20819	506053.795	178811.722	154245.505	54501.922	291.179	C		2014	HBUCK	
NAD83 (1986)	44 41 17.17246	93 17 36.20629	506053.932	178810.982	154245.547	54501.696		1		1998	GPS927	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRACK-AF9739-3E-03NOV2022.jpg	E	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRACK-AF9739-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRACK-AF9739-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7328.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7328.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BRAVO ORIENTATION PT

NGS Name: DET BRAVO ORIENTATION PIER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3197](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	34	115 N	19 W	444349.31	930445.37	2	A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2023	DESTROYED	Horz=YES Vert=YES	YES		PROJECTS 9 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	UNSPECIFIC DISK TYPE (SEE TEXT)	USE

Description: (2011) **Stamping:** +

2.5 MILES EAST-SOUTHEAST OF ROSEMOUNT, AT THE NAVY RADAR SITE, 0.55 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF 145TH STREET AND TRUNK HIGHWAY 3 IN ROSEMOUNT, THEN 2.25 MILES EAST ON COUNTY ROAD 42, THEN 0.45 MILE SOUTH ON AKRON AVENUE, THEN 0.2 MILE EAST ON A DRIVEWAY, 300.0 FEET SOUTHEAST OF A PARKING LOT, 189.6 FEET SOUTH OF THE SOUTH EDGE OF A RADAR DISH BASE, 115.3 FEET EAST-SOUTHEAST OF THE NORTHEAST CORNER OF A CYCLONE FENCE, 108.3 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF BUILDING 3, 104.0 FEET NORTHWEST OF A DOUBLE TRUNK POPLAR TREE, 96.0 FEET NORTHEAST OF A SPLIT TRUNK POPLAR TREE, 87.0 FEET SOUTH-SOUTHWEST OF A POWER POLE. ENTIRE AREA IS BEING DEVELOPED INTO HOUSING.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	936.291	0.016	285.382	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.962 12B = -91.955 09 = -91.896 03 = -91.703

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 49.30920	93 04 45.37128	561700.252	194308.137	171206.579	59225.239	257.347			2012	GPS2800	
NAD83 (2007)	44 43 49.30934	93 04 45.37206	561700.195	194308.150	171206.562	59225.243	257.371			2007	GPS2300	
NAD83 (1996)	44 43 49.30901	93 04 45.37155	561700.233	194308.117	171206.573	59225.233	257.355	A		1999	17648	
NAD83 (1986)	44 43 49.30160	93 04 45.36945	561700.386	194307.367	171206.620	59225.004		C		1990	C019	
NAD27	44 43 49.42179	93 04 44.59497						2		1991	17504	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DET_BRAVO_ORIENTATION_PIER-PP3197-3E-21JUL2023.jpg	E	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DET_BRAVO_ORIENTATION_PIER-PP3197-2-26AUG2004.jpg		Aug 26, 2004
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DET_BRAVO_ORIENTATION_PIER-PP3197-1-26AUG2004.jpg		Aug 26, 2004

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7329.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7329.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BRENDEN

NGS Name: BRENDEN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0990](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	9	113 N	18 W	443605.64	925933.71	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** BRENDEN 2015

IN HAMPTON, AT THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52 IN HAMPTON, AT TRUNK HIGHWAY 50 MILEPOINT 19.0, 92.1 FEET NORTH OF A TRUNK HIGHWAY 50 FOG LINE, 169.6 FEET EAST-NORTHEAST OF A NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 61.2 FEET WEST-SOUTHWEST OF A RAMP FROM TRUNK HIGHWAY 50 TO NORTHBOUND TRUNK HIGHWAY 52, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: HAMP MNDT RESET - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	982.980	0.016	299.613	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.675 12B = -94.672 09 = -94.613 03 = -94.455

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 05.63507	92 59 33.71211	584387.327	147426.471	178121.614	44935.678	270.755			2016	GPS3146	
NAD83 (1996)	44 36 05.63494	92 59 33.71256	584387.295	147426.458	178121.604	44935.674	270.821	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRENDEN-DQ0990-3N-30SEP2022.jpg	N	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRENDEN-DQ0990-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRENDEN-DQ0990-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103108.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103108.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BRIDGE MN037

NGS Name: BRIDGE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5060](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	26	28 N	23 W	445302.18	930819.65	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1996) **Stamping:** BRIDGE 1988

IN MENDOTA HEIGHTS, AT THE JUNCTION OF TRUNK HIGHWAY 62 AND INTERSTATE HIGHWAY 35E IN MENDOTA, AT TRUNK HIGHWAY 62 MILEPOINT 119.35, 98.5 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35E, 28.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 62, 13.0 FEET WEST OF THE NORTHWEST CORNER OF A NORTH RAIL OF A BRIDGE OVER INTERSTATE HIGHWAY 35E, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	914.522	0.016	278.747	0.005	2/1	2020	00000955
NGVD29	914.365	0.016	278.699	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.859 12B = -89.862 09 = -89.796 03 = -89.629

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 02.18052	93 08 19.65039	546108.006	250263.229	166454.053	76280.385	251.355			2012	GPS2800	
NAD83 (2007)	44 53 02.18026	93 08 19.65128	546107.942	250263.202	166454.034	76280.377	251.403			2007	GPS2300	
NAD83 (1996)	44 53 02.18004	93 08 19.65074	546107.981	250263.180	166454.046	76280.370	251.433	C		2014	HDAKR	
NAD83 (1986)	44 53 02.17287	93 08 19.64655	546108.284	250262.456	166454.138	76280.149		C		1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRIDGE-AC5060-3NE-02AUG2023.jpg	NE	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRIDGE-AC5060-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRIDGE-AC5060-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7330.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7330.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BRONCO

NGS Name: BRONCO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4932](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	28 N	23 W	445406.70	930809.63	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 8 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** BRONCO 2011

IN MENDOTA HEIGHTS, AT THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 13, AT TRUNK HIGHWAY 13 MILEPOINT 109.79, 67.3 FEET NORTHWEST OF SOUTHBOUND TRUNK HIGHWAY 13, 44.7 FEET WEST-NORTHWEST OF THE NORTHWEST CORNER OF DOUBLE CABINETS, 22.4 FEET NORTHWEST OF ELECTRIC UTILITY CABINET NUMBER E3X, 19.9 FEET NORTHEAST OF A RIGHT-OF-WAY FENCE FOR NORTHBOUND INTERSTATE HIGHWAY 35E, 19.9 FEET EAST OF A POWER POLE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: TABITHA - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	801.262	0.016	244.225	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.823 12B = -89.819 09 = -89.747 03 = -89.577

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 54 06.70654	93 08 09.62395	546815.454	256800.101	166669.684	78272.827	216.847			2021	GPS3438	
NAD83 (1996)	44 54 06.70613	93 08 09.62424	546815.433	256800.059	166669.677	78272.815	216.921	C		2021	HDODD2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRONCO-DO4932-3NW-08AUG2023.jpg	NW	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRONCO-DO4932-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BRONCO-DO4932-1-08AUG2023.jpg		Aug 8, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95078.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95078.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BROWN MRC

NGS Name: BROWN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	21	115 N	18 W	444456.68	925905.07		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

7.6 MILES EAST-NORTHEAST OF ROSEMOUNT, 0.8 MILE EAST ALONG 145TH STREET WEST FROM THE JUNCTION OF 145TH STREET WEST AND BURMA AVENUE WEST IN ROSEMOUNT, THEN 6.1 MILES EAST ALONG COUNTY ROAD 42 THEN 0.2 MILE SOUTHEAST ALONG COURTHOUSE BOULEVARD, THEN 0.5 MILE NORTH ALONG FAHEY AVENUE SOUTH. STATION BROWN MRC IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, 7.0 MILES WEST OF HASTINGS, MINN. ON BLUFFS 492.1 FEET FROM AN EDGE, AT THE EAST END OF THE NORTH ROW OF BOX ELDER TREES ALONG A ROAD TO A HOUSE 492.1 FEET SOUTHEAST OF A TWO-STORY BRICK HOUSE AND AT THE ROAD INTERSECTION 9.8 FEET FROM A LINE BETWEEN THE PROPERTIES OF P. H. ROWE AND THOMAS BROWN ESTATE ON THE BROWN ESTATE. TO GET TO STATION BROWN MRC TAKE ST. PAUL SOUTHERN ELECTRIC RAILWAY AND GET OFF AT BROWNS CROSSING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.939 12B = -92.930 09 = -92.877 03 = -92.726

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96862.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96862.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK

NGS Name: BUCK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CU8108](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	115 N	21 W	444323.00	931714.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1889	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	DRILL HOLE	NGS

Description: (2011)

Stamping:

IN BURNSVILLE, THREE-FOURTHS MILE EAST OF TRUNK HIGHWAY 65, IN THE WEST HALF OF SEC. 36, T. 115 N., R. 21 W. OF THE FIFTH PRINCIPAL MERIDIAN, ON LAND OWNED BY F.G.L. HUNT, AND ON PROMINENT BALD HILL KNOWN AS BUCK HILL, TO REACH FROM THE INTERSECTION OF TRUNK HIGHWAY 55 AND 100 AT FORT SNELLING, GO SOUTHWEST AND WEST 6.0 MILES ON TRUNK HIGHWAY 5 TO ITS INTERSECTION WITH TRUNK HIGHWAY 65, GO SOUTH 10.4 MILES ON U.S. ROUTE 65 TO CROSSROADS, TURN LEFT AND GO EAST 0.3 MILE ON A GRAVEL ROAD TO WAGON TRACKS ACROSS CULTIVATED FIELD ON LEFT, GO NORTH 0.6 MILE ACROSS FIELD TO GAP IN A FENCE AT BASE OF A HILL, AND PROCEED TO SUMMIT OF HILL AND THE STATION SITE.

Station Notes

ORIGINAL MARK WAS STONE POST WITH HOLE DRILLED IN CENTER. THE STATION WAS RE-MARKED IN 1927 WITH SURFACE AND UNDERGROUND MARKS CONSISTING OF STANDARD STATION DISKS IN CONCRETE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.688 12B = -89.682 09 = -89.629 03 = -89.432

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD27	44 43 23. 81700	93 17 13. 61500						3	1964	USGS-H0

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66621.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66621.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK 1927

NGS Name: BUCK RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CU8107](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	36	115 N	21 W	444323.00	931714.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1927	1964	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 8 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1961) **Stamping:** BUCK 1889 1927

7.5 MILES SOUTH OF BLOOMINGTON, 5.0 MILES SOUTHEAST OF SAVAGE, 0.5 MILE WEST OF THE INTERSECTION OF INTERSTATE HIGHWAY 35 AND TRUNK HIGHWAY 65, ON A HILL KNOWN AS BUCK HILL, 60.0 FEET SOUTH OF MOTOR AND PLATFORM FOR THE SKI LIFT, 9.0 FEET NORTH -NORTHWEST OF A LARGE POLE, 0.6 MILE NORTH-NORTHEAST OF BUCK RM 1, 0.7 MILE EAST OF BUCK RM 2 RESET, 237.5 FEET NORTHEAST OF BUCK RM 3.

Station Notes

BUCK RESET (PP) WAS SET IN THE SAME POSITION AND 3.5 FEET LOWER THEN BUCK 1927 IN 1964.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.688 12B = -89.682 09 = -89.629 03 = -89.432

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66873.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66873.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK 2

NGS Name: BUCK 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2613](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1001
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	115 N	21 W	444323.42	931714.49		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2023	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	NGS

Description: (2011) **Stamping:** BUCK 2 1978

IN BURNSVILLE, 0.5 MILE WEST OF INTERSTATE HIGHWAY 35, ON THE HIGHEST PART OF BUCK HILL, UNDER THE SKI LIFT CABLES, 75.8 FEET NORTH OF A BLUFF AND FENCE, 75.1 FEET NORTH-NORTHEAST OF A WITNESS POST, 19.9 FEET WEST OF A CABLE SUPPORT TOWER, 15.2 FEET NORTHEAST OF THE NORTHEAST CORNER OF A SMALL CONTROL SHED, 4.0 FEET EAST OF THE EAST END OF THE CONCRETE BASE FOR THE CABLE TURNING WHEEL, 20.52 FEET WEST OF BUCK 2 RM 4.

Station Notes

BUCK HILL SKI RESORT REPORTED 5/1/2023 THAT THE MARK WILL BE DESTROYED BY CONSTRUCTION OF A NEW SKI LIFT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.685 12B = -89.678 09 = -89.626 03 = -89.429

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 23.42248	93 17 14.48609	507618.572	191597.811	154722.450	58399.130	341.573			2012	GPS2800	
NAD83 (2007)	44 43 23.42255	93 17 14.48666	507618.531	191597.818	154722.438	58399.132	341.593			2007	GPS2300	
NAD83 (1996)	44 43 23.42213	93 17 14.48607	507618.575	191597.776	154722.451	58399.119	341.628	C		1999	GPS1211	
NAD83 (1986)	44 43 23.41472	93 17 14.48413	507618.714	191597.025	154722.493	58398.890			2	1986	17289	
NAD27	44 43 23.54475	93 17 13.68363							2	1986	10744	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUCK_2-PP2613-3SW-10OCT2011.jpg	SW	Oct 10, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUCK_2-PP2613-2-10OCT2011.jpg		Oct 10, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUCK_2-PP2613-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7333.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7333.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK 2 RM 4

NGS Name: BUCK 2 RM 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI1252](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	21 W	444323.44	931714.20		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MAT FOUNDATION (NON-PAVEMENT)	REFERENCE MARK DISK	NGS

Description: (2011) **Stamping:** BUCK 2 NO 4 1978

IN BURNSVILLE, IN THE CONCRETE FOOTING OF A SKI LIFT CABLE TOWER, ON THE HIGHEST PART OF BUCK HILL, UNDER THE SKI LIFT CABLE, 20.5 FEET EAST OF STATION BUCK 2, IN THE SOUTHEAST CORNER OF THE CONCRETE BASE OF THE MOST WESTERN TOWER. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.685 12B = -89.678 09 = -89.626 03 = -89.432

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUCK_2_RM_4-AI1252-3W-10OCT2011.jpg	W	Oct 10, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUCK_2_RM_4-AI1252-2-10OCT2011.jpg		Oct 10, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUCK_2_RM_4-AI1252-1-10OCT2011.jpg		Oct 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64112.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64112.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK 2 RM 5

NGS Name: BUCK 2 RM 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ3906](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	21 W	444322.69	931714.54		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2023	GOOD	Horz=NO Vert=YES	NO	19809	FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	REFERENCE MARK DISK	NGS

Description: (2011)

Stamping: BUCK 2 NO 5 1978

IT IS 53.6 FEET SOUTH OF A SMALL CONTROL SHED, STATION BUCK 2 RM 5 IS A STANDARD DISK SET IN A DRILL HOLE IN THE SOUTHWEST CORNER OF A CONCRETE ABUTMENT OF BRIDGE NUMBER 19809, STAMPED--1981 A--. TO REACH THE FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND TRUNK HIGHWAY 13 IN BURNSVILLE, GO SOUTH ON INTERSTATE HIGHWAY 35 WEST FOR 2.5 MILES TO BRIDGE OVER INTERSTATE HIGHWAY 35 AND STATION BUCK 2 RM 5 IN THE SOUTH CORNER OF OVERHEAD BRIDGE. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

SEE DATA SHEET FOR 1981 A (GSID NUMBER 7138) USE THOSE PHOTOS. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.583 12B = -89.577 09 = -89.527 03 = -89.334

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66627.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66627.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK RESET

NGS Name: BUCK RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2608](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1001
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	21 W	444323.69	931714.42		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1964	2008	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 96 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (2019) **Stamping:** BUCK 1889 1964

2.0 MILES SOUTHWEST OF BURNSVILLE, 0.25 MILE WEST OF INTERSTATE HIGHWAY 35, AT TOP OF BUCK HILL SKI LIFT, AT BUCK HILL SKI RESORT, 27.99 FEET NORTHEAST OF BUCK 2, 236.46 FEET NORTHEAST OF BUCK RM 3.

Station Notes

REPLACED STATION BUCK 1927. 8.0 FEET BELOW GROUND DUE TO FILL DIRT PLACED ON TOP OF HILL,

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.685 12B = -89.678 09 = -89.626 03 = -89.429

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 43 23.69435	93 17 14.41835	507623.453	191625.347	154723.938	58407.523	337.051	1	1999	17648		
NAD83 (1986)	44 43 23.68694	93 17 14.41641	507623.593	191624.597	154723.981	58407.294		1	1986	17289		
NAD27	44 43 23.81696	93 17 13.61589						1	1933	01323		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7332.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7332.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK RM 1

NGS Name: BUCK RM 1 AZIMUTH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2610](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1001
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	114 N	21 W	444252.90	931727.72		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1889	2022	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (1978) **Stamping:** BUCK NO 1 1927

2.0 MILES SOUTHWEST OF BURNSVILLE, 42.5 FEET NORTH OF A NORTHEAST FENCE CORNER, 20.0 FEET WEST OF A FIELD ENTRANCE, 16.0 FEET NORTH OF A GRAVEL ROAD, 8.2 FEET FROM A POWER LINE GUY POLE.

Station Notes
TIES FALL IN A NEW BUILDING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.718 12B = -89.714 09 = -89.662 03 = -89.465

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 42 52.90287	93 17 27.72112	506663.917	188506.523	154431.471	57456.903	280.840	2	1999	17648		
NAD83 (1986)	44 42 52.89555	93 17 27.71919	506664.057	188505.782	154431.513	57456.677		2	1986	17289		
NAD27	44 42 53.02548	93 17 26.91880						2	1965	13600		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7334.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7334.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK RM 2

NGS Name: BUCK RM 2 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2607](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1001
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	115 N	21 W	444323.77	931804.79		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1961	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (2010) **Stamping:** BUCK NO 2 1927 RESET 1961

5.0 MILES NORTHWEST OF LAKEVILLE, 0.2 MILE WEST ALONG WEST 155TH STREET FROM THE JUNCTION OF KENWOOD TRAIL AND WEST 155TH STREET IN LAKEVILLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.544 12B = -89.541 09 = -89.488 03 = -89.294

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 43 23.76940	93 18 04.79059	503986.358	191631.951	153615.349	58409.536	296.292	2	1999	17648
NAD83 (1986)	44 43 23.76199	93 18 04.78848	503986.510	191631.200	153615.396	58409.307		2	1986	17289
NAD27	44 43 23.89245	93 18 03.98645						2	1965	13600

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7335.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7335.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK RM 2 AZIMUTH

NGS Name: BUCK RM 2 AZIMUTH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ3905](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	21 W	444323.00	931716.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1927	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	AZIMUTH MARK DISK	CGS

Description: (2009)

Stamping:

6.0 MILES SOUTH OF BURNSVILLE, 1.0 MILE NORTH ALONG BRYANT AVENUE SOUTH FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND 162ND STREET WEST, THEN 0.3 MILE WEST ON 162ND STREET, THEN 0.2 MILE NORTH ON KENDALE DRIVE, THEN 0.1 MILE NORTH ON DUPONT AVENUE SOUTH, THEN 0.2 MILE EAST ON WEST 158TH STREET, THEN 423.0 FEET NORTH ON BRYANT AVENUE SOUTH.

Station Notes

VISITED AREA, DEVELOPED, UNABLE TO FIND, ASSUMED DESTROYED DURING CONSTRUCTION NO IDENTIFICATION OF WHAT MARK IS, POOR TIES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.682 12B = -89.675 09 = -89.623 03 = -89.426

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66632.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66632.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUCK RM 3

NGS Name: BUCK RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI1251](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	21 W	444322.30	931717.06		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1927	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	REFERENCE MARK DISK	CGS

Description: (2011)

Stamping:

IN BURNSVILLE, 1.0 MILE NORTH ALONG BRYANT AVENUE SOUTH FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND 162ND STREET WEST, THEN 0.3 MILE WEST ON 162ND STREET, THEN 0.2 MILE NORTH ON KENDALE DRIVE, THEN 0.1 MILE NORTH ON DUPONT AVENUE SOUTH, THEN 0.2 MILE EAST ON WEST 158TH STREET.

Station Notes

AREA HAS BEEN DEVELOPED, ASSUME DESTROYED DURING CONSTRUCTION, NOT ENOUGH TIE INFORMATION, MONUMENT TYPE NOT IDENTIFIED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.672 12B = -89.665 09 = -89.613 03 = -89.416

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66634.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66634.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUICK

NGS Name: BUICK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7399](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	30	28 N	22 W	445257.38	930526.07	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** BUICK 2014

IN INVER GROVE HEIGHTS, AT THE JUNCTION OF TRUNK HIGHWAY 110 AND COUNTY ROAD 14 (MENDOTA ROAD) IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 110 MILEPOINT 3.75, 47.0 FEET NORTH-NORTHEAST OF A WESTBOUND TRUNK HIGHWAY 110 EXTENDED FOG LINE, 21.2 FEET EAST-SOUTHEAST OF A MENDOTA ROAD FOG LINE, 16.8 FEET WEST-NORTHWEST OF A WITNESS POST.

Station Pair: FORD - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1003.404	0.016	305.838	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.226 12B = -90.233 09 = -90.193 03 = -89.993

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 57.37947	93 05 26.07017	558607.872	249807.975	170264.020	76141.623	278.338			2015	GPS3085	
NAD83 (1996)	44 52 57.37928	93 05 26.07046	558607.851	249807.955	170264.013	76141.617	278.411	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUICK-DP7399-3NE-02AUG2023.jpg	NE	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUICK-DP7399-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUICK-DP7399-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101803.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101803.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BURMA

NGS Name: BURMA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8567](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	112 N	19 W	443236.42	930813.88	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** BURMA 2015

6.0 MILES SOUTH OF FARMINGTON, 6.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 19.4, 130.8 FEET WEST OF TRUNK HIGHWAY 3, 77.2 FEET SOUTH OF COUNTY ROAD 86 (280TH STREET WEST), 90.2 FEET EAST OF A FIELD ENTRANCE, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: GRVAL MNDT RESET 2 - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	921.852	0.016	280.981	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.133 12B = -93.149 09 = -93.100 03 = -92.926

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 36.42237	93 08 13.88253	546796.928	126122.007	166664.037	38442.065	252.606	2015	C	2015	GPS3101	
NAD83 (1996)	44 32 36.42236	93 08 13.88288	546796.903	126122.006	166664.029	38442.064	252.672	2015	C	2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BURMA-DP8567-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BURMA-DP8567-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BURMA-DP8567-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103189.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103189.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BURNSVILLE MUNICIPAL TANK

NGS Name: BURNSVILLE MUNICIPAL TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2684](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/1126
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	24	115 N	21 W	444511.57	931728.49		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2023	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	STANDPIPE TANK	NGS

Description: (1985)

Stamping:

2.4 MILES SOUTH OF BURNSVILLE, 1.5 MILES SOUTH ALONG WELLINGTON CRESCENT FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND WEST BURNSVILLE PARKWAY, THEN SOUTH 1.0 MILE ON ALDRICH AVENUE SOUTH/ FRONTAGE ROAD, THEN 0.3 MILE SOUTH ON WELLINGTON CRESCENT. IN BURNSVILLE, AT THE TOP OF A HILL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.409 12B = -89.403 09 = -89.350 03 = -89.163

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 45 11.56930	93 17 28.48587	506604.307	202550.406	154413.302	61737.487	298.833	4	1999	17648
NAD83 (1986)	44 45 11.56287	93 17 28.48403	506604.440	202549.754	154413.342	61737.289		4	1986	17289
NAD27	44 45 11.69089	93 17 27.68158						4	1979	15198

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BURNSVILLE_MUNICIPAL_TANK-PP2684-3W-11JUL2023.jpg	W	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BURNSVILLE_MUNICIPAL_TANK-PP2684-2-11JUL2023.jpg		Jul 11, 2023
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7336.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7336.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BUTLER MN037

NGS Name: BUTLER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7518](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	16	28 N	22 W	445443.94	930354.61	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2015) **Stamping:** BUTLER 1988

IN WEST ST. PAUL, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF COUNTY ROAD 4 (BUTLER AVENUE) AND TRUNK HIGHWAY 52 (LAFAYETTE FREEWAY), 44.0 FEET SOUTH OF COUNTY ROAD 4, 20.0 FEET EAST OF AN ENTRANCE RAMP TO SOUTHBOUND TRUNK HIGHWAY 52, 15.0 FEET SOUTHWEST OF A LIGHT POLE, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	957.432 0.016	291.826 0.005	2/1	2013 00000781

Geoid Separations(ft): GEOID18 = -90.305 12B = -90.302 09 = -90.246 03 = -90.062

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 54 43.94530	93 03 54.61186	565160.069	260620.405	172261.134	79437.258	264.306			2014	GPS2981	
NAD83 (2007)	44 54 43.94518	93 03 54.61196	565160.062	260620.392	172261.132	79437.254	264.302			2007	GPS2300	
NAD83 (1996)	44 54 43.94496	93 03 54.61215	565160.049	260620.370	172261.127	79437.248	264.386	C		2012	HXERX	
NAD83 (1986)	44 54 43.93730	93 03 54.60887	565160.287	260619.594	172261.200	79437.011		C		1989	C019	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUTLER-AI7518-3S-09AUG2023.jpg	S	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUTLER-AI7518-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BUTLER-AI7518-1-25AUG2011.jpg		Aug 25, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7337.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7337.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: BYLL MNDT RM 3

NGS Name: BYLL RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7757](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	12	112 N	18 W	443125.93	925532.08		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2007	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	REFERENCE MARK DISK	MNDT

Description: (1988) **Stamping:** BYLL NO 3 1988

1.5 MILES NORTHWEST OF CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 99.25, 1.25 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19, 97.0 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 5.7 FEET EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED INTO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.007 12B = -96.004 09 = -95.945 03 = -95.817

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 31 25.93509	92 55 32.08193	602006.516	119176.770	183491.953	36325.152	230.264			2012	GPS2800	
NAD83 (2007)	44 31 25.93517	92 55 32.08263	602006.466	119176.778	183491.938	36325.155	230.287			2007	GPS2300	
NAD83 (1996)	44 31 25.93494	92 55 32.08269	602006.461	119176.755	183491.936	36325.148	230.323	C		2004	GPS2041	
NAD83 (1986)	44 31 25.92772	92 55 32.07931	602006.709	119176.025	183492.012	36324.925				1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BYLL_RM_3-DG7757-3NE-20NOV2003.jpg	NE	Nov 20, 2003
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BYLL_RM_3-DG7757-2-20NOV2003.jpg		Nov 20, 2003
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/BYLL_RM_3-DG7757-1-20NOV2003.jpg		Nov 20, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7338.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7338.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 117

NGS Name: C 117

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0818](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	9	113 N	20 W	443621.00	931335.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2012	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (2006) **Stamping:** C 117 1934

4.9 MILES SOUTHWEST OF FARMINGTON, 350.0 FEET EAST OF HAMBURG AVENUE WEST, 500.0 FEET EAST OF THE JUNCTION OF TWO RAILROADS.

Station Notes

HAMBURG AVENUE NOW IS U.S. FISH AND WILDLIFE RESERVE EASEMENT.
 THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	965.559	0.016	294.303	0.005	2/0	1991	00000025
NGVD29	965.608	0.016	294.318	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.594 12B = -91.598 09 = -91.552 03 = -91.348

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7339.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7339.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: C 27

NGS Name: C 27

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1479](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	27 N	22 W	444739.41	930239.66	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** C 27 1933

IN INVER GROVE HEIGHTS. 0.3 MILE WEST ALONG 105TH STREET EAST FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 105TH STREET EAST, THEN 0.2 MILE SOUTH ON A RAILROAD. IN AN ABUTMENT OF THE SOUTHWEST CORNER OF BRIDGE NUMBER 3397 OVER A RAILROAD, IN THE TOP OF THE 2ND COURSE OF STEPS FROM TOP, 2.4 FEET SOUTH OF THE NORTH FACE OF AN ABUTMENT WALL, 7.7 FEET WEST OF THE WEST RAIL OF A RAILROAD. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	892.623	0.016	272.072	0.005	2/0	1991	00000025
NGVD29	892.492	0.016	272.032	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.571 12B = -91.558 09 = -91.516 03 = -91.348

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/C_27-PP1479-3N-01SEP2011.jpg	N	Sep 1, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/C_27-PP1479-2-01SEP2011.jpg		Sep 1, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/C_27-PP1479-1-01SEP2011.jpg		Sep 1, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7340.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7340.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CASTLE

NGS Name: CASTLE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ3481](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	26	113 N	19 W	443420.64	930415.23		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** CASTLE 2014

4.5 MILES SOUTHWEST OF HAMPTON, 3.2 MILES WEST ALONG COUNTY ROAD 80 FROM THE JUNCTION OF COUNTY ROAD 80 AND TRUNK HIGHWAYS 50 AND 52 IN HAMPTON, THEN 1.5 MILES SOUTH ON COUNTY ROAD 79 (BLAINE AVENUE), THEN 0.70 MILE WEST ON COUNTY ROAD 80 SOUTH (260TH STREET), 41.9 FEET SOUTH OF COUNTY ROAD 80 SOUTH, 19.0 FEET EAST OF A FIELD ENTRANCE, 0.10 MILE EAST OF FIRE NUMBER 1605, 5.0 FEET WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.806 12B = -93.815 09 = -93.766 03 = -93.599

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 34 20.63624	93 04 15.23359	564049.869	136721.407	171922.744	41672.768	287.843			2016	GPS3152	
NAD83 (1996)	44 34 20.63612	93 04 15.23393	564049.845	136721.395	171922.737	41672.764	287.907	C		2016	HDAK2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CASTLE-DQ3481-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CASTLE-DQ3481-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CASTLE-DQ3481-1-06AUG2014.jpg		Aug 6, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102046.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102046.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CEDAR GROVE MUNICIPAL TANK

NGS Name: CEDAR GROVE MUNICIPAL TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2535](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1144
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	19	27 N	23 W	444822.64	931249.41		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2004	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	NGS

Description: (1963)

Stamping:

IN CEDAR GROVE SUBDIVISION-EAGAN TOWNSHIP, 300.0 FEET EAST OF DIAMOND DRIVE, ON THE SOUTH SIDE OF GARNTEX LANE, THE CENTER OF THE TOP OF A TANK.

Station Notes

THE WATER TANK IS GONE, PHOTO TAKEN OF WHERE THE TANK USE TO BE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.705 12B = -89.705 09 = -89.626 03 = -89.455

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 48 22.63869	93 12 49.40904	526719.994	221917.614	160544.575	67640.624	4	1999	17648			
NAD83 (1986)	44 48 22.63234	93 12 49.40639	526720.186	221916.971	160544.634	67640.428	4	1986	17289			
NAD27	44 48 22.75742	93 12 48.60807					4	1979	15198			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CEDAR_GROVE_MUNICIPAL_TANK-PP2535-3S-20NOV2006.jpg	S	Nov 20, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7341.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7341.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CEDAR MN037

NGS Name: CEDAR

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DH4699](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	115 N	20 W	444519.95	931304.28	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** CEDAR

IN APPLE VALLEY, 1.8 MILES NORTH ALONG COUNTY ROAD 23 (CEDAR AVENUE) FROM THE JUNCTION OF COUNTY ROAD 23 (CEDAR AVENUE) AND COUNTY ROAD 42 (150TH STREET WEST), 30.0 FEET WEST OF NORTHBOUND CEDAR AVENUE, IN THE CEDAR AVENUE MEDIAN NEAR THE END OF A CURB AND A GUTTER, IN LINE WITH A DRIVEWAY EAST, 11.0 FEET SOUTHEAST OF THE END OF A CURB, 10.0 FEET SOUTHWEST OF THE END OF A CURB, 5.0 FEET EAST OF A WITNESS POST.

Station Pair: ZOO - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1046.947	0.016	319.110	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.065 12B = -90.069 09 = -90.013 03 = -89.810

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 19.94790	93 13 04.27870	525670.328	203413.523	160224.637	62000.566	291.669					2018	GPS3290	
NAD83 (1996)	44 45 19.94778	93 13 04.27910	525670.300	203413.510	160224.628	62000.562	291.740	C				2018	HTH77	
NAD83 (1986)	44 45 19.94068	93 13 04.27771	525670.402	203412.792	160224.659	62000.343		C				1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CEDAR-DH4699-3S-13JUL2023.jpg	S	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CEDAR-DH4699-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CEDAR-DH4699-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7342.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7342.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CEMETARY

NGS Name: CEMETARY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4928](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	28	28 N	23 W	445259.93	931003.56	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 35 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** CEMETARY 2011

IN MENDOTA HEIGHTS, 0.36 MILE NORTH THEN WEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 110 IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 13 MILEPOINT 108.15, 66.2 FEET NORTHEAST OF TRUNK HIGHWAY 13, 55.1 FEET SOUTHEAST OF A POWER POLE, 16.7 FEET SOUTHWEST OF CEMETERY ROAD, 9.1 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	854.529	0.016	260.461	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.672 12B = -89.672 09 = -89.590 03 = -89.439

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 59.93051	93 10 03.56146	538626.375	250020.328	164173.648	76206.348	233.117	2014	C	GPS2981		
NAD83 (1996)	44 52 59.93025	93 10 03.56186	538626.347	250020.301	164173.639	76206.340	233.197	2012	C	HXERX		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CEMETARY-DO4928-3SW-01AUG2023.jpg	SW	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CEMETARY-DO4928-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CEMETARY-DO4928-1-28NOV2011.jpg		Nov 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95075.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95075.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHIPP MNDT

NGS Name: CHIPP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7763](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	5	113 N	19 W	443723.68	930749.16	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** CHIPP 1988

1.0 MILE SOUTHEAST OF FARMINGTON, 0.5 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, THEN 0.3 MILE EAST ON 225TH STREET WEST, 38.5 FEET SOUTH OF 225TH STREET WEST, 71.4 FEET SOUTH-SOUTHWEST OF A POWER POLE, 71.3 FEET SOUTH-SOUTHWEST OF CHIPP MNDT RM 1, 35.2 FEET EAST OF CHIPP MNDT RM 2, 39.0 FEET SOUTH OF 225TH STREET WEST, 22.7 FEET WEST OF A POWER POLE, 2.7 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	923.646	0.016	281.528	0.005	2/1	2016	00000879
NGVD29	923.515	0.016	281.488	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.690 12B = -92.697 09 = -92.644 03 = -92.434

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 23.67987	93 07 49.16135	548520.855	155218.213	167189.491	47310.606	253.275			2012	GPS2800	
NAD83 (2007)	44 37 23.68000	93 07 49.16205	548520.805	155218.225	167189.476	47310.610	253.298			2007	GPS2300	
NAD83 (1996)	44 37 23.67982	93 07 49.16198	548520.809	155218.207	167189.477	47310.604	253.346	C		2004	GPS2041	
NAD83 (1986)	44 37 23.67234	93 07 49.15991	548520.960	155217.449	167189.523	47310.373		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP-DG7763-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP-DG7763-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP-DG7763-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7343.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7343.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHIPP MNDT RM 1

NGS Name: CHIPP RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4282](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	5	113 N	19 W	443724.38	930749.06	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** CHIPP NO 1 1988

1.0 MILE SOUTHEAST OF FARMINGTON, 0.5 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, THEN 0.3 MILE EAST ON 225TH STREET WEST, 71.3 FEET NORTH-NORTHEAST OF STATION CHIPP MNDT, 31.5 FEET NORTH OF 225TH STREET WEST, 31.0 FEET EAST OF CAMBRIAN WAY, 8.2 FEET WEST OF A POWER POLE, 1.6 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	923.568	0.016	281.504	0.005	2/1	2016	00000879
NGVD29	923.430	0.016	281.462	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.690 12B = -92.697 09 = -92.644 03 = -92.431

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP_RM_1-DM4282-3N-28OCT2022.jpg	N	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP_RM_1-DM4282-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP_RM_1-DM4282-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7344.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7344.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHIPP MNDT RM 2

NGS Name: CHIPP RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4281](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	5	113 N	19 W	443723.68	930749.65	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** CHIPP NO 2 1988

1.0 MILE SOUTHEAST OF FARMINGTON, 0.5 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, THEN 0.3 MILE EAST ON 225TH STREET WEST, 39.5 FEET SOUTH OF 225TH STREET WEST, 35.2 FEET WEST OF STATION CHIPP MNDT, 57.7 FEET WEST OF A POWER POLE, 2.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	923.174	0.016	281.384	0.005	2/1	2016	00000879
NGVD29	923.039	0.016	281.343	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.687 12B = -92.697 09 = -92.641 03 = -92.431

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP_RM_2-DM4281-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP_RM_2-DM4281-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHIPP_RM_2-DM4281-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7345.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7345.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHRISTIANA FREE CHURCH NEAR

NGS Name: CHRISTIANA FREE CHURCH NEAR

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2597](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/1029
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	28	113 N	20 W	443345.62	931415.95		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2022	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	CHURCH SPIRE	NGS

Description: (2011)

Stamping:

4.0 MILES EAST-SOUTHEAST OF ELKO. 2.6 MILES NORTH ALONG COUNTY ROAD 2 FROM THE JUNCTION OF COUNTY ROAD 2 AND COUNTY ROAD 46, THEN 2.6 MILES EAST ALONG 267TH STREET WEST, IN THE NORTHEAST QUADRANT OF THE INTERSECTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.808 12B = -91.808 09 = -91.768 03 = -91.588

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 33 45.62390	93 14 15.94646	520566.623	133088.819	158669.024	40565.553	4	1999	17648			
NAD83 (1986)	44 33 45.61576	93 14 15.94487	520566.738	133087.994	158669.059	40565.302	4	1986	17289			
NAD27	44 33 45.74800	93 14 15.15800					4	1937	03491			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHRISTIANA_FREE_CHURCH_NEAR-PP2597-3E-01NOV2022.jpg	E	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHRISTIANA_FREE_CHURCH_NEAR-PP2597-2-01NOV2022.jpg		Nov 1, 2022
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7346.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7346.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHRISTIANA NORWEGIAN LUTH CH

NGS Name: CHRISTIANA NORWEGIAN LUTH CH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2598](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/1030
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	29	113 N	20 W	443341.11	931424.22		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	2011	DESTROYED	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	NGS

Description: (1935)

Stamping:

4.0 MILES EAST-SOUTHEAST OF ELKO, IN THE SOUTHWEST ANGLE OF THE CROSSROADS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.788 12B = -91.788 09 = -91.752 03 = -91.568

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 33 41.10881	93 14 24.21728	519968.212	132630.979	158486.628	40426.003	4	1999	17648			
NAD83 (1986)	44 33 41.09951	93 14 24.21563	519968.332	132630.037	158486.665	40425.716	4	1986	17289			
NAD27	44 33 45.74800	93 14 15.15800					3	1964	USGS-H0			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHRISTIANA_NORWEGIAN_LUTH_CH-PP2598-1-17OCT2006.jpg		Oct 17, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7347.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7347.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHUB MN037

NGS Name: CHUB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093132/
 USGS Quad: NEW MARKET

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	5	112 N	20 W	443238.03	931516.92		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** CHUB 1992

7.5 MILES NORTHWEST OF NORTHFIELD, 8.5 MILES SOUTHWEST OF FARMINGTON, IN GREENVALE TOWNSHIP, 1.45 MILES EAST ALONG DAKOTA COUNTY ROAD 86 FROM THE JUNCTION OF DAKOTA COUNTY ROAD 86 AND SCOTT COUNTY ROAD 46, 2.35 MILES WEST ALONG COUNTY ROAD 86 FROM THE JUNCTION OF COUNTY ROAD 86 AND COUNTY ROAD 23, 18.00 FEET SOUTH OF COUNTY ROAD 86, 300.0 FEET EAST OF A DRIVEWAY TO HOUSE NUMBER 9395.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.762 12B = -91.771 09 = -91.729 03 = -91.548

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 32 38.02808	93 15 16.91791	516157.255	126239.203	157325.046	38477.786		C	1992	C019		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHUB-3N-01NOV2022.jpg	N	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHUB-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHUB-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7348.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7348.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CHURCH MN037

NGS Name: CHURCH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7515](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	27 N	23 W	444814.76	930955.36		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MN-037

Description: (1999) **Stamping:** CHURCH 1988

IN EAGAN, 450.0 FEET EAST ALONG COUNTY ROAD 30 (DIFFLEY ROAD) FROM THE JUNCTION OF COUNTY ROAD 30 AND COUNTY ROAD 31 (PILOT KNOB ROAD), 275.0 FEET SOUTH OF COUNTY ROAD 30, ON THE EAST SIDE OF THE EASTER LUTHERAN CHURCH PARKING LOT, 100.8 FEET SOUTH OF THE NORTHEAST CORNER OF A PARKING LOT, 2.6 FEET EAST OF THE EDGE OF A PARKING LOT, 127.0 FEET EAST OF A LIGHT POLE.

Station Notes

COUNTY RAN LEVELS TO STATION IN 1992.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.141 12B = -90.144 09 = -90.069 03 = -89.885

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 48 14. 75678	93 09 55. 36377	539270. 310	221138. 926	164369. 919	67403. 280	262. 042		2012	GPS2800
NAD83 (2007)	44 48 14. 75688	93 09 55. 36451	539270. 257	221138. 937	164369. 903	67403. 283	262. 064		2007	GPS2300
NAD83 (1996)	44 48 14. 75659	93 09 55. 36389	539270. 302	221138. 907	164369. 917	67403. 274	262. 126	C	2000	GPS1517
NAD83 (1986)	44 48 14. 74922	93 09 55. 36120	539270. 496	221138. 160	164369. 976	67403. 046		C	1988	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHURCH-AI7515-3E-21JUL2023.jpg	E	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHURCH-AI7515-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CHURCH-AI7515-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7349.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7349.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CLIFF MNDT

NGS Name: CLIFF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2542](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	30	27 N	23 W	444725.81	931329.03		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2011) **Stamping:** CLIFF 1974

IN EAGAN, AT THE TOP OF THE NORTH BACK SLOPE ON COUNTY ROAD 32, 94.5 FEET NORTH OF CLIFF ROAD, 48.5 FEET NORTHEAST OF A POWER POLE, 43.6 FEET NORTH-NORTHEAST OF A WITNESS POST, 221.28 FEET WEST-NORTHWEST OF CLIFF MNDT RM 1, 49.03 FEET NORTHEAST OF CLIFF MNDT RM 2.

Station Notes

STATION CLIFF MNDT AND CLIFF MNDT RM 2 WERE FOUND DESTROYED IN 1993 BY DISTRICT 9 SURVEYS AND THE DISKS WERE RETURNED TO GEODETIC UNIT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.708 12B = -89.708 09 = -89.642 03 = -89.455

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 47 25.81230	93 13 29.03185	523869.647	216158.848	159675.788	65885.349	270.400	2	1999	17648
NAD83 (1986)	44 47 25.80636	93 13 29.02970	523869.803	216158.247	159675.835	65885.165		2	1986	17289
NAD27	44 47 25.93188	93 13 28.23092						2	1979	15198

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7350.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7350.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CLIFF MNDT RM 1

NGS Name: CLIFF RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ3972](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	27 N	23 W	444724.00	931319.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2001	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** CLIFF NO 1 1974

IS SET IN A 15.0 INCH DIAMETER ROUND CONCRETE MONUMENT THAT PROJECTS 0.2 FOOT ABOVE THE SURFACE OF THE GROUND AND IS ABOUT 4.0 FEET BELOW THE LEVEL OF CLIFF ROAD. THE STATION IS 54.5 FEET NORTH OF THE CENTERLINE OF CLIFF ROAD, 3.3 FEET WEST OF A POWER POLE AND 27.9 FEET NORTH OF A STEEL SIGNPOST.

Station Notes
 THE TIES FALL IN A DRIVE TO AN APARTMENT COMPLEX.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.734 12B = -89.737 09 = -89.672 03 = -89.481

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66636.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66636.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CLIFF MNDT RM 2

NGS Name: CLIFF RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ3973](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	27 N	23 W	444725.00	931329.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: **Stamping:** CLIFF NO 2 1974

2.80 MILES NORTHWEST FROM BURNSVILLE, ALONG THE JUNCTION OF CLIFF ROAD AND SLATER ROAD, 0.16 MILE WEST FROM TRUNK HIGHWAY 77.

Station Notes

STATION CLIFF MNDT AND CLIFF MNDT RM 2 WERE FOUND DESTROYED IN 1993 BY DISTRICT 9 SURVEYS AND DISK WERE RETURNED TO GEODETIC UNIT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.708 12B = -89.711 09 = -89.645 03 = -89.455

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66875.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66875.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COATES MNDT

NGS Name: COATES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE8891](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	115 N	19 W	444346.61	930207.58		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	HORIZONTAL CONTROL DISK	MNDT

Description: (1995) **Stamping:** COATES 1985

0.8 MILE NORTH OF COATES, ON THE WEST RIGHT-OF-WAY OF TRUNK HIGHWAY 52 AT MILEPOINT 114.9, 65.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 7.5 FEET SOUTH OF AN ENTRANCE, 47.0 FEET NORTH-NORTHEAST OF A POWER POLE, 44.5 FEET SOUTH-SOUTHWEST OF A WITNESS POST, 35.3 FEET NORTH OF A WITNESS POST, 9.1 FEET NORTHWEST OF A WITNESS POST, 34.50 FEET NORTH OF COATES MNDT RM 2, 44.02 FEET SOUTH OF COATES MNDT RM 1, IN 1995 COATES MNDT RM 1 AND COATES MNDT RM 2 WERE FOUND OKAY AND NO MENTION WAS MADE OF THE UNDERGROUND STATION MARK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.500 12B = -92.497 09 = -92.437 03 = -92.254

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 43 46.60562	93 02 07.57882	573093.044	194070.601	174679.109	59152.837	254.093		2012	GPS2800
NAD83 (2007)	44 43 46.60592	93 02 07.57993	573092.963	194070.631	174679.085	59152.847	254.108		2007	GPS2300
NAD83 (1996)	44 43 46.60556	93 02 07.57933	573093.007	194070.594	174679.098	59152.836	254.157	C	1999	17648
NAD83 (1986)	44 43 46.59741	93 02 07.57355	573093.427	194069.771	174679.226	59152.584		1	1998	GPS1211
NAD27	44 43 46.71680	93 02 06.80750						C	1950	UNK

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7351.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7351.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COATES MNDT RM 1

NGS Name: COATES RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE9033](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	115 N	19 W	444346.00	930207.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2007)

Stamping: COATES NO 1 1985

THE STATION IS 63.5 FEET WEST OF THE CENTERLINE OF THE SOUTHBOUND LANE OF TRUNK HIGHWAY 52, 37.5 FEET NORTH OF THE CENTER OF AN ENTRANCE, AND 1.6 FEET WEST OF A STEEL WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.503 12B = -92.500 09 = -92.441 03 = -92.257

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66884.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66884.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COATES MNDT RM 2

NGS Name: COATES RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE9034](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	36	115 N	19 W	444346.27	930207.62	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 48 FT)	REFERENCE MARK DISK	MNDT

Description: (1985) **Stamping:** COATES NO 2 1985

0.8 MILE NORTH OF COATES, 1.0 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 48 IN COATES, AT TRUNK HIGHWAY 52 MILEPOINT 114.9, 65.0 FEET WEST OF SOUTHBOUND OF TRUNK HIGHWAY 52, 40.0 FEET SOUTH OF AN ENTRANCE, 1602 FEET SOUTHEAST OF NORTHEAST CORNER OF IRRIGATION SHED, 12.5 FEET NORTH OF POWER POLE, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: MOUNT - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	925.763	0.016	282.173	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.500 12B = -92.497 09 = -92.437 03 = -92.254

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 46.26620	93 02 07.62241	573090.015	194036.214	174678.186	59142.356	253.978	2016	GPS3152			
NAD83 (2007)	44 43 46.26647	93 02 07.62332	573089.950	194036.241	174678.166	59142.365	253.989	2009	GPS2590			
NAD83 (1996)	44 43 46.26618	93 02 07.62281	573089.986	194036.212	174678.177	59142.356	254.039	2016	HDAK2			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COATES_RM_2-AE9034-3W-17AUG2023.jpg	W	Aug 17, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COATES_RM_2-AE9034-2-17AUG2023.jpg		Aug 17, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COATES_RM_2-AE9034-1-17AUG2023.jpg		Aug 17, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64159.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64159.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COATES ST AGATHA CH SPIRE

NGS Name: COATES ST AGATHA CH SPIRE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE9095](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
<u>1/4</u> NW	<u>Sec</u> 6	<u>Twp</u> 114 N	<u>Rng</u> 18 W	
	444301.80	930154.40		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2022	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH CROSS	MNDT

Description: (2015)

Stamping:

IN COATES, 0.15 MILE EAST ALONG 160TH STREET FROM THE JUNCTION OF 160TH STREET EAST AND CLAYTON AVENUE EAST, IN THE SOUTHEAST QUADRANT OF 160TH STREET AND COMSTOCK AVENUE, CHURCH SPIRE CROSS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.716 12B = -92.720 09 = -92.654 03 = -92.464

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COATES_ST_AGATHA_CH_SPIRE-AE9095-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COATES_ST_AGATHA_CH_SPIRE-AE9095-2-21OCT2022.jpg		Oct 21, 2022
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7352.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7352.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COATES ST AGATHA CH SPIRE MNDT

NGS Name: COATES ST AGATHA CH SPIRE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE8996](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	6	114 N	18 W	444512.00	931728.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2011	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH CROSS	MNDT

Description: (2011)

Stamping:

IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF 160TH STREET AND COMSTOCK AVENUE IN ROSEMONT. THE OBJECT SIGHTED IS A CROSS ON TOP OF A SMALL SPIRE THAT IS ON TOP OF A WOOD FRAME CHURCH THAT IS ABOUT 50.0 FEET HIGH AND WAS BUILT IN 1914.

Station Notes

THIS IS A DUPLICATE OF AE9095.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.723 12B = -92.726 09 = -92.661 03 = -92.470

* No Horizontal Positions in the Database *

<u>Type</u>	<u>Station Photos</u>	<u>Dir</u>	<u>Date</u>
	<u>File Name</u>		
Location:			
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COATES_ST_AGATHA_CH_SPIRE-AE8996-2-02OCT2011.jpg		Oct 2, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COATES_ST_AGATHA_CH_SPIRE-AE8996-1-02OCT2011.jpg		Oct 2, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66891.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66891.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COKE MN037

NGS Name: COKE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4410](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445146.00	930904.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2005	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** COKE 1988

IN EAGAN, AT THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 55, 32.8 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 55, 38.2 FEET NORTH OF THE NORTH RAILING OF TRUNK HIGHWAY 55 BRIDGE OVER INTERSTATE HIGHWAY 494, 14.9 FEET NORTHWEST OF A FENCE CORNER, 54.7 FEET SOUTHWEST OF TOP WEST END OF A CONCRETE CULVERT, 15.3 FEET SOUTHEAST OF THE EAST CATCH BASIN AT THE BACK OF CURB, 1.8 FEET WEST OF A WITNESS POST.

Station Notes

IN 1995 DISTRICT 9 SURVEYS FOUND STATION WITH THE SOUTH 1/4 OF THE DISK CRACKED.
 THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.954	0.016	270.649	0.005	2/1	2000	00000359
NGVD29	887.774	0.016	270.594	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.875 12B = -89.882 09 = -89.800 03 = -89.636

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 51 45.37537	93 09 02.55657	543034.429	242477.809	165517.225	73907.384			C	1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COKE-AH4410-3E-22NOV2006.jpg	E	Nov 22, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COKE-AH4410-2-22NOV2006.jpg		Nov 22, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COKE-AH4410-1-22NOV2006.jpg		Nov 22, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7353.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7353.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COKE MN037 RESET

NGS Name: COKE RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP1344](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445145.38	930902.56	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	DESTROYED	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** COKE MN037 RESET 2011

IN EAGAN, AT THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 55, 33.2 FEET NORTH OF TRUNK HIGHWAY 55, 38.7 FEET NORTHWEST OF THE NORTHWEST RAILING OF A TRUNK HIGHWAY 55 BRIDGE OVER INTERSTATE HIGHWAY 494, 15.3 FEET SOUTHWEST OF A FENCE CORNER, 9.1 FEET NORTH OF A CURB, 1.4 FEET WEST OF A WITNESS POST. NEW CURB, GUTTER, AND SIDEWALK IN 2022.

Station Pair: COLA - DAKOTA, MN

Station Notes

NEW CURB, GUTTER, AND SIDEWALK IN 2022.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.728	0.016	270.580	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.875 12B = -89.882 09 = -89.800 03 = -89.636

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 45.38271	93 09 02.56041	543034.151	242478.551	165517.140	73907.610	243.197			2015	GPS3085	
NAD83 (1996)	44 51 45.38242	93 09 02.56090	543034.116	242478.522	165517.130	73907.601	243.248	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COKE_RESET-DP1344-3W-03OCT2011.jpg	W	Oct 3, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COKE_RESET-DP1344-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COKE_RESET-DP1344-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94769.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94769.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: COLA

NGS Name: COLA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7400](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	2	27 N	23 W	445132.26	930840.91	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** COLA 2014

IN EAGAN, 0.07 MILE WEST ALONG WESTBOUND TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND COUNTY ROAD 43 AND LEXINGTON AVENUE AND BLUE GENTIAN ROAD IN EAGAN, AT TRUNK HIGHWAY 55 MILEPOINT 201.3, 147.7 FEET NORTHEAST OF WESTBOUND TRUNK HIGHWAY 55, 3.7 FEET EAST-SOUTHEAST OF A RIGHT-OF-WAY FENCE, 1.5 FEET EAST-SOUTHEAST OF A WITNESS POST.

Station Pair: COKE MN037 RESET - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.043	0.016	269.152	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.941 12B = -89.947 09 = -89.869 03 = -89.701

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 32.26490	93 08 40.90622	544596.726	241153.207	165993.414	73503.645	241.725			2015	GPS3085	
NAD83 (1996)	44 51 32.26475	93 08 40.90650	544596.706	241153.192	165993.408	73503.640	241.794	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COLA-DP7400-3N-02AUG2023.jpg	N	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COLA-DP7400-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/COLA-DP7400-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101770.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101770.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CONNER MNDT

NGS Name: CONNER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2609](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1134
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	13	114 N	21 W	444104.11	931710.68		C	1963	1996	DESTROYED		NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** CONNER 1963

IN LAKEVILLE, 0.35 MILE EAST ALONG 185TH STREET FROM THE JUNCTION OF 185TH STREET AND INTERSTATE HIGHWAY 35, 0.4 MILE WEST ALONG 185TH STREET FROM THE JUNCTION OF 185TH STREET AND COUNTY ROAD 50, 1100.0 FEET NORTH OF 185TH STREET, ON A DOUBLE POLE POWER LINE, IN AN OPEN FIELD ON THE CREST OF A HILL, 505.35 FEET NORTHEAST OF CORNER MNDT RM 1, 710.79 FEET SOUTHEAST OF CORNER MNDT RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.046 12B = -90.049 09 = -89.987 03 = -89.790

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 41 04. 11004	93 17 10. 68267	507898. 457	177488. 661	154807. 759	54098. 652	304. 747		2012	GPS2800
NAD83 (2007)	44 41 04. 11015	93 17 10. 68332	507898. 410	177488. 672	154807. 745	54098. 655	304. 763		2007	GPS2300
NAD83 (1996)	44 41 04. 10979	93 17 10. 68281	507898. 447	177488. 635	154807. 756	54098. 644	304. 774	C	1999	17648
NAD83 (1986)	44 41 04. 10271	93 17 10. 68087	507898. 587	177487. 918	154807. 799	54098. 426		2	1986	17289
NAD27	44 41 04. 23423	93 17 09. 88352						2	1965	13600

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7354.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7354.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CONNER MNDT RM 1

NGS Name: CONNER RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2611](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1134
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	114 N	21 W	444102.09	931717.08		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** CONNER NO 1 1963

3.5 MILES NORTHWEST OF LAKEVILLE, 0.4 MILE EAST OF TRUNK HIGHWAY 65 AND INTERSTATE HIGHWAY 35, 0.55 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 65 AND COUNTY ROAD 50 THEN 0.6 MILE EAST AND SOUTH TO A POWER LINE ON THE CREST OF A HILL, 505.35 FEET SOUTHWEST OF THE STATION CONNER MNDT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.029 12B = -90.033 09 = -89.974 03 = -89.773

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 41 02.08909	93 17 17.07871	507436.399	177283.817	154666.924	54036.215	298.447	2	1999	17648
NAD83 (1986)	44 41 02.08208	93 17 17.07660	507436.551	177283.107	154666.970	54035.999		2	1986	17289
NAD27	44 41 02.21372	93 17 16.27879						2	1965	13600

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7355.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7355.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CONNER MNDT RM 2

NGS Name: CONNER RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2612](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1134
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	114 N	21 W	444109.28	931717.34		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** CONNER NO 2 1963

3.5 MILES NORTHWEST OF LAKEVILLE, 0.4 MILE EAST OF TRUNK HIGHWAY 65 AND INTERSTATE HIGHWAY 35, 0.55 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 65 AND TRUNK HIGHWAY 50 THEN 0.6 MILE EAST AND SOUTH TO A POWER LINE ON THE CREST OF A HILL, 710.79 FEET NORTHWEST OF STATION CONNER MNDT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.010 12B = -90.013 09 = -89.954 03 = -89.754

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 41 09.27932	93 17 17.33587	507417.563	178012.018	154661.183	54258.172	296.453	2	1999	17648
NAD83 (1986)	44 41 09.27211	93 17 17.33371	507417.719	178011.288	154661.230	54257.949		2	1986	17289
NAD27	44 41 09.40376	93 17 16.53597						2	1965	13600

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7356.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7356.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: CURVE MN037

NGS Name: CURVE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	112 N	18 W	443118.78	925831.17		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 6 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** CURVE 1991

3.5 MILES WEST OF CANNON FALLS, 2.25 MILES EAST OF RANDOLPH, IN RANDOLPH TOWNSHIP, 1.6 MILES EAST ALONG COUNTY ROAD 88 FROM THE JUNCTION OF COUNTY ROAD 88 AND TRUNK HIGHWAY 56, 300.0 FEET EAST OF A REVERSE CURVE IN COUNTY ROAD 88, 64.0 FEET EAST-NORTHEAST OF A POWER POLE, 51.3 FEET SOUTH OF A CURVE AND 45 MILE AN HOUR SPEED LIMIT SIGN, 22.0 FEET SOUTH OF COUNTY ROAD 88, 34.7 FEET NORTH OF A WITNESS POST.

Station Notes
ALUMINUM ALLOY ROD OF UNKNOWN LENGTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.371 12B = -95.371 09 = -95.311 03 = -95.187

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 31 18.77545	92 58 31.16962	589034.370	118393.329	179538.035	36086.359			C	1992	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CURVE-3S-06OCT2022.jpg	S	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CURVE-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/CURVE-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7357.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7357.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 117
County: DAKOTA, MN (Sheet 1)

NGS Name: D 117

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	113 N	20 W	443641.00	931215.00	2	

NGS ACRN: PP0819	Get Map
NGS Quad / Sta Num : 44093123/	
USGS Quad: CASTLE ROCK	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2020	NOT FOUND	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	BENCH MARK DISK	NGS

Description: (2006) **Stamping:** D 117 1934

3.7 MILES SOUTHWEST OF FARMINGTON, 0.7 MILE EAST ALONG 235TH STREET WEST FROM THE JUNCTION OF 235TH WEST AND CEDAR AVENUE, ON THE SOUTH RIGHT-OF-WAY OF THE RAILROAD, 2722.0 FEET NORTHEAST OF MILEPOST 4, 216.0 FEET NORTHEAST OF A DRIVEWAY TO BACHMAN'S TREE FARM, 1000.0 FEET NORTH OF COUNTY ROAD 28, 45.0 FEET SOUTHEAST OF THE CENTER OF THE TRACK, 4.0 FEET NORTHWEST OF A WOOD FENCE, 75.0 FEET EAST OF A T-POLE AND 0.5 FOOT WEST OF A STEEL WITNESS POST. PROJECTS 0.2 FOOT ABOVE THE GROUND, ABOUT 2.0 FEET HIGHER THAN THE TRACK.

Station Notes

TIES ALL GONE 10-17-2006.
LOOK ON TREE FARM AT 44-36-41N, 93-12-14W.
THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	947.114	0.016	288.681	0.005	2/0	1991	00000025
NGVD29	946.973	0.016	288.638	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.837 12B = -91.847 09 = -91.794 03 = -91.591

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7358.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7358.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: D 27

NGS Name: D 27

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1480](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	27 N	22 W	444807.00	930222.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2006	DESTROYED	Horz=NO Vert=NO	NO	5081		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	BENCH MARK DISK	NGS

Description: (2010) **Stamping:** D 27 1933

IN INVER GROVE HEIGHTS, AT BRIDGE NUMBER 5081 (TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56 OVER RAILROAD), IN THE TOP OF A CONCRETE BRIDGE FOOTING, 465.0 FEET NORTHEAST OF RAILROAD MILEPOST 512, 8.5 FEET SOUTHEAST OF THE SOUTHEAST RAIL OF A RAILROAD, MIDWAY BETWEEN TWO CENTER PIERS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	872.636	0.016	265.980	0.005	2/0	1991	00000025
NGVD29	872.511	0.007	265.942	0.002	1	1972	L123 MINN

Geoid Separations(ft): GEOID18 = -91.545 12B = -91.532 09 = -91.486 03 = -91.319

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7359.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7359.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DAKOTA

NGS Name: DAKOTA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DJ8739](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	20 W	444358.94	931238.23	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2013	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2003) **Stamping:** DAKOTA 2003

0.25 MILE EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND CEDAR AVENUE/ COUNTY ROAD 23 IN APPLE VALLEY, THEN 0.05 MILE NORTH ALONG GARRET AVENUE, THEN 0.1 MILE NORTHEAST ALONG GARRET AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ALONG FRONTAGE ROAD, 92.1 FEET WEST OF DAKOTA WESTERN SERVICE CENTER, 91.9 FEET EAST OF A FRONTAGE ROAD, 22.6 FEET EAST-SOUTHEAST OF THE SOUTHWEST CORNER OF A BRICK AIR CONDITIONING BUILDING, NEAR THE SOUTHWEST CORNER OF THE DAKOTA WESTERN SERVICE CENTER BUILDING, 5.3 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	952.393	0.016	290.290	0.005	2/1	2008	00000561

Geoid Separations(ft): GEOID18 = -90.407 12B = -90.410 09 = -90.344 03 = -90.138

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DAKOTA-DJ8739-3E-21SEP2011.jpg	E	Sep 21, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DAKOTA-DJ8739-2-21SEP2011.jpg		Sep 21, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DAKOTA-DJ8739-1-21SEP2011.jpg		Sep 21, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_50694.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50694.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DAKOTA RESET

NGS Name: DAKOTA RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP1345](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	20 W	444358.94	931238.23	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2013	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** DAKOTA 2003 2013

0.25 MILE EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND COUNTY ROAD 23 (CEDAR AVENUE) IN APPLE VALLEY, THEN 0.05 MILE NORTH ON GARRET AVENUE, THEN 0.1 MILE NORTHEAST ON GARRET AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ON A FRONTAGE ROAD, 91.9 FEET EAST OF A FRONTAGE ROAD, 92.1 FEET WEST OF THE DAKOTA WESTERN SERVICE CENTER, 22.6 FEET EAST-SOUTHEAST OF THE SOUTHWEST CORNER OF A BRICK AIR CONDITIONING BUILDING, 5.3 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	952.472	0.016	290.314	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.407 12B = -90.410 09 = -90.344 03 = -90.138

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 58.93840	93 12 38.22752	527560.973	195211.375	160800.906	59500.546	262.756			2014	GPS2983	
NAD83 (1996)	44 43 58.93817	93 12 38.22797	527560.941	195211.351	160800.896	59500.539	262.718	C		2014	HDAKR	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DAKOTA_RESET-DP1345-3N-13JUL2023.jpg	N	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DAKOTA_RESET-DP1345-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DAKOTA_RESET-DP1345-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101018.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101018.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DCSHOP MN037

NGS Name: DCSHOP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5055](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	115 N	19 W	444430.50	930658.03		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (1999) **Stamping:** DCSHOP 1988

IN ROSEMOUNT, 0.65 MILE NORTH OF THE JUNCTION OF COUNTY ROAD 42 AND BISCAYNE AVENUE, 34.0 FEET WEST OF BISCAYNE AVENUE, 14.0 FEET SOUTH OF A RAILROAD, 36.0 FEET NORTHEAST OF A TELEPHONE POLE, 1.0 FOOT EAST OF A SIGNPOST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.371 12B = -91.365 09 = -91.309 03 = -91.109

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 44 30.50414	93 06 58.03056	552112.610	198454.525	168284.260	60489.060	268.916		2012	GPS2800
NAD83 (2007)	44 44 30.50425	93 06 58.03134	552112.554	198454.536	168284.243	60489.064	268.939		2007	GPS2300
NAD83 (1996)	44 44 30.50389	93 06 58.03096	552112.581	198454.500	168284.251	60489.053	268.992	C	1997	GPS805-
NAD83 (1986)	44 44 30.49675	93 06 58.02885	552112.734	198453.776	168284.298	60488.832		C	1989	C019

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7360.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7360.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DEERWOOD

NGS Name: DEERWOOD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7401](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	21	27 N	23 W	444853.62	931027.66	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 63 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** DEERWOOD 2014

IN EAGAN, 1.0 MILE NORTHEAST ALONG NORTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 30 (DIFFLEY ROAD) IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 95.95, 79.5 FEET SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35E, 1.5 FEET NORTHWEST OF A WITNESS POST.

Station Pair: DIFFLEY - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	859.936	0.016	262.109	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.980 12B = -89.980 09 = -89.905 03 = -89.728

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 48 53.62007	93 10 27.65539	536935.087	225070.788	163658.142	68601.713	234.678			2015	GPS3085	
NAD83 (1996)	44 48 53.61994	93 10 27.65568	536935.066	225070.775	163658.136	68601.709	234.745	C		2015	HDTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DEERWOOD-DP7401-3SE-18JUL2023.jpg	SE	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DEERWOOD-DP7401-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DEERWOOD-DP7401-1-16JUL2014.jpg		Jul 16, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101804.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101804.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DEL MN037

NGS Name: DEL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4420](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NE	1	27 N	23 W	445136.38	930621.85	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** DEL 1988

IN EAGAN, 1.5 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 63 (DELAWARE AVENUE) AND TRUNK HIGHWAY 110, ON A LARGE KNOB, 200.0 FEET SOUTHWEST OF ARGENTA TRAIL, 150.0 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF A BRIDGE OVER TRUNK HIGHWAY 494, 200.0 FEET NORTHEAST OF ONEILL DRIVE, 200.0 FEET NORTHWEST OF A POWER POLE, 2.6 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	940.897	0.016	286.786	0.005	2/1	2020	00000955
NGVD29	940.828	0.016	286.765	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -90.249 12B = -90.262 09 = -90.190 03 = -90.010

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 51 36.38536	93 06 21.85441	554612.293	241594.059	169046.165	73638.016	259.285			2015	GPS3085	
NAD83 (2007)	44 51 36.38527	93 06 21.85525	554612.232	241594.049	169046.147	73638.014	259.333	C		2009	GPS2590	
NAD83 (1996)	44 51 36.38504	93 06 21.85472	554612.271	241594.026	169046.158	73638.007	259.380	C		2015	HDOTA	
NAD83 (1986)	44 51 36.37773	93 06 21.85010	554612.605	241593.286	169046.260	73637.781		C		1988	C019	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DEL-AH4420-3N-03AUG2023.jpg	N	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DEL-AH4420-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DEL-AH4420-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7361.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7361.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DELANGE MNDT

NGS Name: DELANGE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2450](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/1064
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	114 N	16 W	443746.89	924621.16		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2005	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (1991) **Stamping:** DELANGE 1972

9.0 MILES SOUTHEAST OF HASTINGS, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 316 FROM THE SOUTH JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61, AT COUNTY LINE, 28.0 FEET WEST OF TRUNK HIGHWAY 316, 11.0 FEET NORTH OF A FIELD ENTRANCE, 86.0 FEET SOUTH OF A POWER POLE, 84.51 FEET SOUTH OF DELANGE MNDT RM 1, 78.38 FEET WEST-NORTHWEST OF DELANGE MNDT RM 2.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.415 12B = -97.411 09 = -97.342 03 = -97.214

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 37 46.89206	92 46 21.15762	641663.790	157986.841	195579.514	48154.486	272.542			2012	GPS2800	
NAD83 (2007)	44 37 46.89223	92 46 21.15842	641663.732	157986.858	195579.497	48154.491	272.559			2007	GPS2300	
NAD83 (1996)	44 37 46.89179	92 46 21.15796	641663.765	157986.814	195579.507	48154.477	272.614	C		2000	GPS1517	
NAD83 (1986)	44 37 46.88438	92 46 21.15789	641663.775	157986.063	195579.510	48154.248			2	1986	17289	
NAD27	44 37 47.00042	92 46 20.44169							2	1973	14889	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7362.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7362.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DELANGE MNDT RM 1

NGS Name: DELANGE RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4015](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	114 N	16 W	443747.00	924622.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011)

Stamping: DE LANGE NO 1 1972

THE MARK IS 84.51 FEET NORTH OF THE STATION, 31.5 FEET WEST OF THE CENTERLINE OF TRUNK HIGHWAY 316, 1.7 FEET SOUTH-SOUTHEAST OF A STEEL WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.411 12B = -97.408 09 = -97.339 03 = -97.211

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66656.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66656.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DELANGE MNDT RM 2

NGS Name: DELANGE RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4016](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	114 N	16 W	443746.00	924621.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2005	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** DE LANGE NO 2 1972
 THE MARK IS 78.38 FEET EAST-SOUTHEAST OF STATION DELANGE MNDT, 48.3 FEET EAST OF TRUNK HIGHWAY 316,

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.415 12B = -97.411 09 = -97.342 03 = -97.214

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66657.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66657.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DELTA

NGS Name: DELTA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4927](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	33	28 N	23 W	445146.83	931026.26	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** DELTA 2011

IN MENDOTA HEIGHTS, 0.15 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 494, AT TRUNK HIGHWAY 13 MILEPOINT 106.18, 158.5 FEET SOUTHEAST OF NORTHBOUND TRUNK HIGHWAY 13 AT THE TOP OF A SLOPE, 20.4 FEET NORTHWEST OF THE EDGE OF A PARKING LOT, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	784.365	0.016	239.075	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.714 12B = -89.711 09 = -89.623 03 = -89.478

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>						<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>								
NAD83 (2011)	44 51 46.82654	93 10 26.25893	537005.016	242613.357	163679.456	73948.699	211.724			2014	GPS2981							
NAD83 (1996)	44 51 46.82623	93 10 26.25921	537004.996	242613.326	163679.450	73948.690	211.801	C		2012	HXERX							

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DELTA-DO4927-3W-01AUG2023.jpg	W	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DELTA-DO4927-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DELTA-DO4927-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95072.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95072.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DENNYS MN037

NGS Name: DENNYS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4920](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	36	27 N	24 W	444724.27	931432.63	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	HORIZONTAL CONTROL DISK	MN-037

Description: (2011) **Stamping:** DENNYS 1988

IN BURNSVILLE, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 13 AND COUNTY ROAD 32 (CLIFF ROAD), 7.5 FEET WEST OF A GRAVEL DRIVE, 42.0 FEET SOUTH-SOUTHEAST OF A LIGHT POLE.

Station Notes

FOUND THE CAP OFF THE ROD SET BACK ON. DIDN'T RESET DON'T USE IT.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	926.478	0.016	282.391	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.567 12B = -89.567 09 = -89.501 03 = -89.317

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 47 24.26224	93 14 32.62616	519283.328	215997.180	158277.875	65836.072		C	1989	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DENNYS-DO4920-3SW-20JUL2023.jpg	SW	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DENNYS-DO4920-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DENNYS-DO4920-1-05OCT2011.jpg		Oct 5, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7363.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7363.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DIFFLEY

NGS Name: DIFFLEY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7402](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	21	27 N	23 W	444835.62	931112.80	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** DIFFLEY 2014

IN EAGAN, 1.8 MILES SOUTHWEST ALONG SOUTHBOUND INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND COUNTY ROAD 31 (PILOT KNOB ROAD) IN EAGAN, AT INTERSTATE HIGHWAY 35E MILEPOINT 95.2, 91.6 FEET NORTHWEST OF SOUTHBOUND INTERSTATE HIGHWAY 35E, 0.4 MILE NORTHEAST OF COUNTY ROAD 30 (DIFFLEY ROAD), 70.4 FEET SOUTHEAST OF A RIGHT-OF-WAY FENCE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: DEERWOOD - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	922.419	0.016	281.154	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.905 12B = -89.905 09 = -89.829 03 = -89.652

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>			<u>Reference</u>	
NAD83 (2011)	44 48 35.61851	93 11 12.80266	533683.315	223242.158	1626670000	68044.346	253.757			2015	GPS3085
NAD83 (1996)	44 48 35.61835	93 11 12.80292	533683.296	223242.142	162666.994	68044.341	253.824	C		2015	HDOTA

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DIFFLEY-DP7402-3NW-18JUL2023.jpg	NW	Jul 18, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DIFFLEY-DP7402-2-18JUL2023.jpg		Jul 18, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DIFFLEY-DP7402-1-14JUL2014.jpg		Jul 14, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101805.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101805.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DODD MN037

NGS Name: DODD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL5427](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	28 N	23 W	445259.83	930652.13	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2012) **Stamping:** DODD 1988

IN MENDOTA HEIGHTS, 0.5 MILE EAST ALONG TRUNK HIGHWAY 62 FROM THE JUNCTION OF TRUNK HIGHWAY 62 AND TRUNK HIGHWAY 149, AT THE WEST EDGE OF AN ABANDONED ENTRANCE, AT TRUNK HIGHWAY 62 MILEPOINT 120.60, 33.0 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 62, 114.0 FEET NORTHWEST OF A POWER POLE, 59.0 FEET NORTHEAST OF A TELEPHONE POLE, 2.0 FEET NORTH OF A WITNESS POST. THE ROD DEPTH IS UNCERTAIN, ASCERTAINED TO BE 11.0 FEET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	901.189	0.016	274.683	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.042 12B = -90.042 09 = -900000 03 = -89.813

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 59.83345	93 06 52.12782	552410.597	250040.221	168375.087	76212.412	247.238			2015	GPS3085	
NAD83 (2007)	44 52 59.83314	93 06 52.12873	552410.531	250040.190	168375.067	76212.402	247.280	C		2009	GPS2590	
NAD83 (1996)	44 52 59.83292	93 06 52.12819	552410.570	250040.168	168375.079	76212.396	247.312	C		2015	HDOTA	
NAD83 (1986)	44 52 59.82652	93 06 52.12318	552410.933	250039.520	168375.189	76212.198		C		1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DODD-DL5427-3S-02AUG2023.jpg	S	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DODD-DL5427-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DODD-DL5427-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7364.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7364.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DODGE

NGS Name: DODGE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1084](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	115 N	17 W	444302.19	925059.46	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** DODGE 2015

IN HASTINGS, 0.15 MILE SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 115.6, 20.3 FEET EAST OF TRUNK HIGHWAY 61 FOG LINE, 0.15 MILE SOUTH OF A TRUNK HIGHWAY 316, 3.5 FEET NORTH OF A WITNESS POST.

Station Pair: JEEP - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	824.473	0.016	251.300	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.699 12B = -95.689 09 = -95.653 03 = -95.479

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 02.18890	92 50 59.45532	621354.440	189793.784	189389.212	57849.261	222.123			2016	GPS3147	
NAD83 (1996)	44 43 02.18880	92 50 59.45576	621354.408	189793.774	189389.202	57849.258	222.186	C		2016	HMTES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DODGE-DQ1084-3E-28SEP2022.jpg	E	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DODGE-DQ1084-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DODGE-DQ1084-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103410.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103410.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DOGZ

NGS Name: DOGZ

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4915](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	27 N	24 W	444720.35	931718.58	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** DOGZ 2011

IN BURNSVILLE, 1.0 MILE NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 3.65, 44.5 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35W, 90.9 FEET SOUTH OF LIGHT POLE NUMBER W1W3, 41.2 FEET WEST OF A RIGHT-OF-WAY FENCE, 7.7 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	714.254	0.016	217.705	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -89.249 12B = -89.249 09 = -89.173 03 = -88.989

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 20.34711	93 17 18.57725	507314.870	215593.128	154629.882	65712.917	190.495			2014	GPS2981	
NAD83 (1996)	44 47 20.34683	93 17 18.57743	507314.857	215593.100	154629.878	65712.908	190.581	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DOGZ-DO4915-3N-12JUL2023.jpg	N	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DOGZ-DO4915-2-19OCT2017.jpg		Oct 19, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DOGZ-DO4915-1-19OCT2017.jpg		Oct 19, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95138.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95138.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DOODLE MN037

NGS Name: DOODLE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4375](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	27 N	23 W	445001.00	930953.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	HORIZONTAL CONTROL DISK	MN-037

Description: (2010) **Stamping:** DOODLE 1988

IN EAGAN, NEAR COUNTY ROAD 28 (YANKEE DOODLE ROAD) BRIDGE OVER INTERSTATE HIGHWAY 35E, 40.5 FEET NORTH OF COUNTY ROAD 28, 175.0 FEET EAST OF THE NORTHWEST RAMP (SOUTHBOUND INTERSTATE HIGHWAY 35E TO COUNTY ROAD 28), 28.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A BRIDGE, 5.8 FEET SOUTH OF A RIGHT-OF-WAY FENCE, 1.7 FEET SOUTH OF A WITNESS POST.

Station Notes

IN 1995 DISTRICT 9 SURVEYS FOUND THE STATION WITH THE ALUMINUM ROD LEANING BADLY TO THE EAST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	911.527	0.016	277.834	0.005	2/1	2000	00000359
NGVD29	911.330	0.016	277.774	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.931 12B = -89.934 09 = -89.855 03 = -89.688

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 50 01.18468	93 09 52.39641	539464.134	231918.319	164428.997	70688.845			C	1988	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7365.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7365.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DORER MNDT

NGS Name: DORER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3472](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	114 N	17 W	443839.39	925056.80	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
METAL ROD DRIVEN IN GROUND (<10 FT) (DEPTH 5 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** DORER 1988

3.0 MILES NORTHWEST OF MIESVILLE, 3.0 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 110.5, THEN 0.25 MILE EAST ON 210TH STREET, 25.0 FEET SOUTH OF 210TH STREET, 9.0 FEET WEST OF A FIELD ENTRANCE, 80.5 FEET SOUTHEAST OF A POWER POLE NUMBER 2602, 67.0 FEET SOUTHWEST OF A WITNESS POST, 67.0 FEET SOUTHEAST OF STATION DORER MNDT RM 1 RESET, 66.2 FEET SOUTHWEST OF DORER MNDT RM 2, 4.6 FEET EAST OF A WITNESS POST.

Station Pair: MARSHAN - DAKOTA, MN

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.177	0.016	266.145	0.005	2/1	2016	00000879
NGVD29	873.023	0.016	266.098	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.420 12B = -96.414 09 = -96.338 03 = -96.191

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 38 39.39265	92 50 56.80273	621698.800	163180.008	189494.173	49737.366	236.758			2016	GPS3147	
NAD83 (2007)	44 38 39.39277	92 50 56.80337	621698.754	163180.020	189494.159	49737.370	236.785			2007	GPS2300	
NAD83 (1996)	44 38 39.39272	92 50 56.80389	621698.716	163180.015	189494.148	49737.368	236.812	C		2016	HDAK2	
NAD83 (1986)	44 38 39.38419	92 50 56.79941	621699.045	163179.152	189494.248	49737.105		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER-PP3472-3S-28SEP2022.jpg	S	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER-PP3472-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER-PP3472-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7366.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DORER MNDT RM 1

NGS Name: DORER RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3471](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	114 N	17 W	443839.00	925055.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 5 FT)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** DORER NO 1 1988

3.0 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 1.1 MILES WEST OF MIESVILLE) THEN EAST ON 210TH STREET FOR 0.25 MILE, AT TRUNK HIGHWAY 61 MILEPOINT 110.5, 32.4 FEET NORTH OF 210TH STREET, 26.0 FEET EAST OF A POWER POLE NUMBER 2606, 1.1 FEET EAST OF A WITNESS POST.

Station Notes

RECOVERED THE WITNESS POST BADLY DAMAGED IN THE BOTTOM OF A DITCH.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	869.916	0.016	265.151	0.005	2/1	1995	00000136
NGVD29	869.755	0.016	265.102	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.427 12B = -96.424 09 = -96.348 03 = -96.201

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_1-PP3471-3N-29AUG2011.jpg	N	Aug 29, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_1-PP3471-2-29AUG2011.jpg		Aug 29, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_1-PP3471-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7367.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7367.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DORER MNDT RM 1 RESET

NGS Name: DORER RM 1 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1078](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	114 N	17 W	443839.95	925057.30	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 8 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 5 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** DORER NO 1 1988 2011

3.0 MILES NORTHWEST OF MIESVILLE, 3.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), TO TRUNK HIGHWAY 61 MILEPOINT 110.5, THEN 0.25 MILE EAST ON 210TH STREET, 73.0 FEET WEST OF STATION DORER MNDT RM 2, 67.0 FEET NORTHWEST OF STATION DORER MNDT, 32.4 FEET NORTH OF 210TH STREET, 26.0 FEET EAST OF A POWER POLE NUMBER 2606, 1.1 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	869.247	0.016	264.947	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.417 12B = -96.414 09 = -96.338 03 = -96.187

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_1_RESET-DQ1078-3N-28SEP2022.jpg	N	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_1_RESET-DQ1078-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_1_RESET-DQ1078-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94574.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94574.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DORER MNDT RM 2

NGS Name: DORER RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3473](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	114 N	17 W	443839.93	925056.29	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 4 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** DORER NO 2 1988

3.0 MILES NORTHWEST OF MIESVILLE, 3.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAYS 61 AND 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 110.5, THEN 0.25 MILE EAST ON 210TH STREET, 30.5 FEET NORTH OF 210TH STREET, 96.6 FEET EAST-NORTHEAST OF A POWER POLE NUMBER 2606, 73.0 FEET EAST OF STATION DORER RM 1 RESET, 66.2 FEET NORTHEAST OF STATION DORER MNDT, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	870.487	0.016	265.325	0.005	2/1	2016	00000879
NGVD29	870.326	0.016	265.276	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.420 12B = -96.417 09 = -96.342 03 = -96.194

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_2-PP3473-3N-28SEP2022.jpg	N	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_2-PP3473-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_2-PP3473-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7368.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7368.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: DORER MNDT RM 3

NGS Name: DORER RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7760](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	27	114 N	17 W	443839.93	925033.12	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** DORER NO 3 1988

3.0 MILES NORTHWEST OF MIESVILLE, 3.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAYS 61 AND 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 110.5, THEN 0.05 MILE EAST ON 210TH STREET, 51.0 FEET EAST-NORTHEAST OF A POWER POLE, 34.0 FEET NORTH OF 210TH STREET, 2.6 FEET NORTH (SPLIT RAIL) OF A FENCE, 1.0 FOOT SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	892.994 0.016	272.185 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -96.506 12B = -96.502 09 = -96.427 03 = -96.279

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions			County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude		X	Y	X	Y			Year	Reference
NAD83 (2011)	44 38 39.93241	92 50 33.11977		623410.792	163244.573	190015.989	49757.045	242.778		2012	GPS2800
NAD83 (2007)	44 38 39.93260	92 50 33.12067		623410.727	163244.592	190015.970	49757.051	242.794		2007	GPS2300
NAD83 (1996)	44 38 39.93235	92 50 33.12025		623410.757	163244.567	190015.979	49757.043	242.837	C	2004	GPS2041
NAD83 (1986)	44 38 39.92389	92 50 33.11656		623411.030	163243.712	190016.062	49756.783		C	1989	HCANN

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_3-DG7760-3N-28SEP2022.jpg	N	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_3-DG7760-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/DORER_RM_3-DG7760-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7369.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7369.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 117

NGS Name: E 117

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0820](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	1	113 N	20 W	443723.00	930950.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2010) **Stamping:** E 117 1934

1.5 MILES SOUTHWEST OF FARMINGTON, 264.0 FEET NORTHEAST OF RAILROAD MILEPOST 2, 18.0 FEET NORTHEAST OF A ROAD, 39.0 FEET SOUTHEAST OF A RAILROAD, 9.0 FEET NORTHWEST OF A RIGHT-OF-WAY FENCE.

Station Notes

THE STATION WAS DESTROYED DURING THE REMOVAL OF THE RAILROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	920.569	0.016	280.590	0.005	2/0	1991	00000025
NGVD29	920.425	0.007	280.546	0.002	1	1935	L57 MINN

Geoid Separations(ft): GEOID18 = -92.260 12B = -92.273 09 = -92.214 03 = -92.001

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7370.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7370.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 15 114 20 MN037

NGS Name: E 15 114 20

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>			
SE	15	114 N	20 W	444052.67	931149.33		3			
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>			
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON			

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
OBJECT DRIVEN INTO THE GROUND	UNSPECIFIC DISK TYPE (SEE TEXT)	MN-037

Description: (2012) **Stamping:** DAKOTA COUNTY

IN LAKEVILLE, 1.8 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 9 (DODD BOULEVARD) AND FLAGSTAFF AVENUE, 94.8 FEET NORTHEAST OF A POWER POLE, 74.5 FEET SOUTHWEST OF GAS PIPELINE MARKER, 36.0 FEET WEST OF A FENCE POST, 24.0 FEET NORTH OF A FIELD ENTRANCE, 23.5 FEET WEST OF A POWER POLE. APPEARS TO BE BETWEEN CENTERLINE STRIPES.

Station Notes
 COUNTY MARK, MARK APPEARS FLUSH WITH THE PAVEMENT SURFACE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.210 12B = -91.214 09 = -91.155 03 = -90.935

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 40 52.69566	93 11 49.26035	531123.731	176354.035	161886.837	53752.817			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_15_114_20-3S-02NOV2022.jpg	S	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_15_114_20-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_15_114_20-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7371.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7371.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 27

NGS Name: E 27

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1481](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	2	27 N	22 W	445113.77	930109.73	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2010) **Stamping:** E 27 1933

IN INVER GROVE HEIGHTS, 171.0 FEET NORTH OF GLADSTONE STREET, ON THE WEST SIDE OF AN ALLEY, BETWEEN CONCORD STREET AND THE WEST RAIL OF A RAILROAD, 46.0 FEET WEST OF THE WEST RAIL OF A RAILROAD, 74.0 FEET NORTHEAST OF THE NORTHEAST CORNER OF THE SKELLY GAS STATION, 37.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A CONCRETE BLOCK BUILDING (CAMERON LIQUOR STORE), 38.0 FEET NORTH-NORTHEAST OF A TELEPHONE POLE, 4.0 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF A CONCRETE SLAB, 1.0 FOOT SOUTH OF A WITNESS POST. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	719.303	0.016	219.244	0.005	2/0	2000	00000359
NGVD29	719.188	0.016	219.209	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.237 12B = -91.247 09 = -91.171 03 = -90.991

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_27-PP1481-3W-10AUG2023.jpg	W	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_27-PP1481-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_27-PP1481-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7372.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7372.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 27 114 20 MN037

NGS Name: E 27 114 20

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	114 N	20 W	443908.68	931149.74		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNSPECIFIC DISK TYPE (SEE TEXT)	MN-037

Description: (2012)

Stamping:

IN LAKEVILLE, 0.75 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 50 AND FLAGSTAFF AVENUE, IN THE CENTER OF THE SOUTHBOUND LANE OF FLAGSTAFF AVENUE, 60.6 FEET NORTHEAST OF A POWER POLE, 59.4 SOUTH-SOUTHWEST FROM SOUTHWEST CORNER OF A BRICK PILLAR TO A DRIVEWAY NUMBER 20456, 20.0 FEET SOUTH OF DRIVEWAY NUMBER 20456.

Station Notes

COUNTY MARK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.539 12B = -91.548 09 = -91.489 03 = -91.266

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 39 08.67132	93 11 49.73635	531104.799	165818.708	161881.067	50541.643			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_27_114_20-3S-02NOV2022.jpg	S	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_27_114_20-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_27_114_20-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7373.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7373.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 32 115 20 MN037

NGS Name: E 32 115 20

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SE	32	115 N	20 W	444328.70	931417.51		3				
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1988	2023	DESTROYED	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET				

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MN-037

Description: (2012)

Stamping:

IN APPLE VALLEY, 1.0 MILE WEST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND COUNTY ROAD 23 (CEDAR AVENUE), THEN 0.5 MILE SOUTH ON GARDEN VIEW DRIVE TO STATION E 32 115 20 MN037 IN THE MIDDLE OF THE STREET, 44.3 FEET WEST OF A POWER POLE NUMBER 518, 52.8 FEET EAST OF A POWER POLE, 1.0 FOOT WEST OF THE CENTER OF GARDEN VIEW DRIVE. IRON PIN WITH A LOGO WASHER

Station Notes

THE STATION WAS CALLED 24EQ32 ON THE DAKOTA COUNTY PHASE 1 GPS SURVEY OF 1988.
 "DAKOTA COUNTY MONUMENT" LOGO ON WASHER AROUND AN IRON PIN, FLUSH WITH THE PAVEMENT SURFACE

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.190 12B = -90.190 09 = -90.128 03 = -89.928

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 28.69570	93 14 17.51110	520396.433	192140.328	158617.150	58564.489			C	1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_32_115_20-3N-27SEP2011.jpg	N	Sep 27, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_32_115_20-2-27SEP2011.jpg		Sep 27, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_32_115_20-1-27SEP2011.jpg		Sep 27, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7374.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7374.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 32 115 20 MN037 RESET

NGS Name: E 32 115 20 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	115 N	20 W	444328.70	931417.51		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2023	GOOD	Horz=YES Vert=YES	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	SURVEY DISK	MN-037

Description: (2023)

Stamping:

IN APPLE VALLEY, 1.0 MILE WEST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND COUNTY ROAD 23 (CEDAR AVENUE), THEN 0.5 MILE SOUTH ON GARDEN VIEW DRIVE TO STATION E 32 115 20 MN037 IN THE MIDDLE OF THE STREET, 44.3 FEET WEST OF A POWER POLE NUMBER 518, 52.8 FEET EAST OF A POWER POLE, 1.0 FOOT WEST OF THE CENTER OF GARDEN VIEW DRIVE.

Station Notes

THE STATION WAS CALLED 24EQ32 ON THE DAKOTA COUNTY PHASE 1 GPS SURVEY OF 1988.
 "DAKOTA COUNTY MONUMENT" LOGO ON WASHER AROUND AN IRON PIN, FLUSH WITH THE PAVEMENT SURFACE

* No 1st or 2nd Order Vertical Positions in the Database *

No Geoid Separations Available

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_32_115_20_RESET-3E-13JUL2023.jpg	E	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_32_115_20_RESET-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_32_115_20_RESET-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_111257.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_111257.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: E 35 027 24 MN037

NGS Name: E 35 027 24

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	27 N	24 W	444659.09	931453.37		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1983	2011	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
OBJECT DRIVEN INTO THE GROUND	NAIL	MN-037

Description: (1983)

Stamping:

IN CENTER OF THE JUNCTION OF COUNTY ROAD 11 AND 122ND STREET, 60.1 FEET SOUTHWEST OF A POWER POLE, 67.1 FEET NORTHWEST OF A POWER POLE, 45.5 FEET NORTHEAST OF NAIL IN A CURB JOINT, 46.0 FEET SOUTHEAST OF A NAIL IN CURB JOINT.

Station Notes

INTERSECTION HAS BEEN REPAVED SINCE, IT IS A SECTION CORNER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.563 12B = -89.563 09 = -89.504 03 = -89.311

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 46 59.07950	93 14 53.36500	517789.762	213445.377	157822.635	65058.281			C	1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_35_027_24-3N-22APR2008.jpg	N	Apr 22, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_35_027_24-2-22APR2008.jpg		Apr 22, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/E_35_027_24-1-22APR2008.jpg		Apr 22, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7375.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7375.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EAGAN MNDT

NGS Name: EAGAN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1382](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1097
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	3	27 N	23 W	445057.62	930956.34	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2012) **Stamping:** EAGAN 1963

2.5 MILES SOUTH OF MENDOTA, 0.6 MILE WEST ALONG COUNTY ROAD 26/LONE OAK ROAD FROM THE JUNCTION OF COUNTY ROAD 26 AND INTERSTATE HIGHWAY 35E, 0.1 MILE (500.0 FEET) NORTH ALONG PILOT KNOB ROAD, 400.0 FEET EAST ALONG RAINIER LANE, 235.0 FEET WEST OF BURNSIDE AVENUE, 60.3 FEET SOUTH-SOUTHEAST OF A FIRE HYDRANT, BETWEEN ADDRESS NUMBERS 1384 AND 1390 RAINIER LANE, 5.0 FEET SOUTH OF A FENCE CORNER, DIRECTLY UNDER A CHAIN LINK FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	938.600	0.016	286.086	0.005	2/1	2020	00000955
NGVD29	938.391	0.016	286.022	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.832 12B = -89.832 09 = -89.754 03 = -89.593

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 50 57.62267	93 09 56.33563	539169.645	237633.847	164339.237	72430.942	258.776	3	1999	17648				
NAD83 (1986)	44 50 57.61617	93 09 56.33276	539169.853	237633.189	164339.300	72430.741		3	1986	17289				
NAD27	44 50 57.74220	93 09 55.53733						3	1965	13600				

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN-PP1382-3SE-01AUG2023.jpg	SE	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN-PP1382-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN-PP1382-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7376.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7376.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EAGAN MNDT AZ MK

NGS Name: EAGAN AZ MK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2537](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1097
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	10	27 N	23 W	445052.40	930935.93		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1969)

Stamping: EAGAN 1963

2.5 MILES SOUTH OF MENDOTA, 2.0 FEET SOUTH OF A WITNESS POST, 3.5 FEET WEST OF A POWER POLE, 4.2 FEET NORTH OF A 10.0 INCH DIAMETER ELM TREE, 77.5 FEET EAST OF A FARM ENTRANCE, 26.0 FEET SOUTH OF AN EAST-WEST ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.885 12B = -89.885 09 = -89.806 03 = -89.642

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 50 52.40410	93 09 35.92726	540641.032	237108.086	164787.716	72270.689	249.379	2	1999	17648
NAD83 (1986)	44 50 52.39757	93 09 35.92449	540641.233	237107.425	164787.777	72270.488		2	1986	17289
NAD27	44 50 52.52340	93 09 35.12974						2	1965	13600

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7377.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7377.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EAGAN MNDT RM 1

NGS Name: EAGAN RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4038](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	3	27 N	23 W	445058.17	930957.35		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	DESTROYED	Horz=NO Vert=YES	NO			STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1974) **Stamping:** EAGAN NO 1 1963

2.5 MILES SOUTH OF MENDOTA. 0.6 MILE WEST OF INTERSTATE HIGHWAY 35 E ALONG LONE OAK ROAD, THEN 0.1 MILE NORTH ON PILOT KNOB ROAD THEN 0.05 MILE EAST ALONG RANIER LANE 19.0 FEET NORTH OF THE CENTERLINE OF RANIER LANE, 64.6 FEET WEST OF A HYDRANT, 124.6 FEET NORTHEAST OF THE NORTHWEST CORNER OF A DOUBLE GARAGE, 121.4 FEET EAST OF THE SOUTH END OF THE EAST CURB, 65.5 FEET EAST-SOUTHEAST OF A 12.0 INCH DIAMETER ELM TREE.

Station Notes

92.0 FEET NORTHWEST OF STATION EAGAN MNDT. (THE STATION ABOUT 2.0 FEET ABOVE LEVEL OF THE ROAD IN 1974, EAGAN MNDT RM 1 ABOUT LEVEL WITH THE ROAD)

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.823 12B = -89.823 09 = -89.744 03 = -89.583

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66658.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66658.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EAGAN MNDT RM 2

NGS Name: EAGAN RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4039](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	3	27 N	23 W	445058.48	930952.94		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	DESTROYED	Horz=YES Vert=YES	NO			STEEL ROD ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1974) **Stamping:** AGAN NO 2 1963

2.5 MILES SOUTH OF MENDOTA, 0.6 MILE WEST OF INTERSTATE HIGHWAY 35E ALONG LONE OAK ROAD, THEN 0.1 MILE NORTH ON PILOT KNOB ROAD THEN 0.1 MILE EAST ALONG RANIER LANE. 36.3 FEET EAST OF A POWER POLE, 2.1 FEET WEST OF A SIGNPOST, 23.7 FEET WEST OF CENTER OF BURNSIDE ROAD, 21.0 FEET EAST OF THE CENTER OF INLAND ROAD, 105.7 FEET NORTH OF A FIRE HYDRANT, 1.1 FEET WEST OF A STEEL STREET SIGNPOST. ABOUT 3.0 FEET ABOVE THE LEVEL OF INLAND ROAD. TIES FALL IN INTERSECTION OF BURNSIDE AVENUE AND INLAND ROAD.

Station Notes
TIES FALL IN INTERSECTION OF BURNSIDE AVENUE AND INLAND ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.839 12B = -89.839 09 = -89.760 03 = -89.600

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66660.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66660.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EAGAN WATER TK MNDT

NGS Name: EAGAN WATER TK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2538](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	27 N	23 W	445038.20	931009.73		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2023	DESTROYED	Horz=YES Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	DRILL HOLE	MNDT

Description: (2006)

Stamping:

ON THE TOP OF THE WATER TANK IN EAGAN, 0.25 MILE SOUTH OF COUNTY ROAD 31, THE MONUMENT IS A WATER TOWER, DISK TYPE IS A PUNCH MARK ON TOP OF THE BASE OF THE TWIN RED WARNING LIGHT ON TOP OF THE WATER TOWER.

Station Notes

NEW TOWER EARLY 2020'S.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.836 12B = -89.836 09 = -89.754 03 = -89.593

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 50 38.20234	93 10 09.72550	538208.498	235665.182	164046.278	71830.891	298.274	2	1999	17648		
NAD83 (1986)	44 50 38.19579	93 10 09.72278	538208.695	235664.518	164046.338	71830.689		2	1986	17289		
NAD27	44 50 38.32026	93 10 08.92817						2	1979	15198		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN_WATER_TK-PP2538-3W-21NOV2006.jpg	W	Nov 21, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7378.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7378.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ELAINE MN037

NGS Name: ELAINE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5062](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	29	114 N	18 W	443859.22	925959.24	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 5 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** ELAINE 1991

2.75 MILES NORTH OF HAMPTON, 0.7 MILE SOUTHEAST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 66, 62.0 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 430.0 FEET NORTH OF MILEPOST 109, 62.0 FEET SOUTH OF A FIELD ENTRANCE, 0.6 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	918.381 0.016	279.923 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -94.114 12B = -94.104 09 = -94.045 03 = -93.881

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	44 38 59.21684	92 59 59.24436	582471.530	164998.823	177537.678	50291.742	251.233		2016	GPS3148
NAD83 (2007)	44 38 59.21697	92 59 59.24510	582471.477	164998.835	177537.661	50291.746	251.255		2007	GPS2300
NAD83 (1996)	44 38 59.21680	92 59 59.24538	582471.457	164998.818	177537.655	50291.740	251.294	C	2016	HCOAT
NAD83 (1986)	44 38 59.21090	92 59 59.24014	582471.837	164998.223	177537.771	50291.559		C	1992	C019

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ELAINE-AC5062-3NE-19OCT2022.jpg	NE	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ELAINE-AC5062-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ELAINE-AC5062-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7379.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7379.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ELLIOTT

NGS Name: ELLIOTT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8568](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	113 N	19 W	443736.08	930811.68	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 58 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** ELLIOTT 2015

IN FARMINGTON, 0.3 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 25.1, 53.0 FEET EAST OF TRUNK HIGHWAY 3, 131.5 FEET SOUTH OF A CENTENNIAL DRIVE EXTENDED, 40.9 FEET WEST OF A FRONTAGE ROAD, 29.1 FEET NORTHWEST OF A FIRE HYDRANT, 1.5 FEET NORTH OF A WITNESS POST.

Station Pair: RUHLAND - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	906.104	0.016	276.181	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.582 12B = -92.588 09 = -92.536 03 = -92.323

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 37 36.08175	93 08 11.67653	546889.587	156470.564	166692.280	47692.323	247.949			2015	GPS3101	
NAD83 (1996)	44 37 36.08174	93 08 11.67691	546889.560	156470.563	166692.271	47692.323	248.020	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ELLIOTT-DP8568-3E-28OCT2022.jpg	E	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ELLIOTT-DP8568-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ELLIOTT-DP8568-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103112.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103112.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EMPIRE

NGS Name: EMPIRE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0984](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	17	114 N	18 W	444025.36	930018.07	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** EMPIRE 2015

5.0 MILES NORTH-NORTHWEST OF HAMPTON, 5.15 MILES NORTH-NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50 IN HAMPTON TO TRUNK HIGHWAY 52 MILEPOINT 110.9, THEN 0.4 MILE EAST ALONG COUNTY ROAD 62, 33.3 FEET NORTH OF COUNTY ROAD 62, 0.5 MILE WEST OF EMERY AVENUE, 0.15 MILE WEST OF DRIVEWAY NUMBER 5100, 42.0 FEET WEST OF A POWER POLE NUMBER 584, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: HORSE MN037 - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	903.125	0.016	275.273	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.710 12B = -93.717 09 = -93.655 03 = -93.455

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 40 25.35549	93 00 18.06737	581077.331	173717.376	177112.725	52949.162	246.711			2016	GPS3146	
NAD83 (1996)	44 40 25.35534	93 00 18.06784	581077.297	173717.361	177112.714	52949.157	246.771	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EMPIRE-DQ0984-3N-20OCT2022.jpg	N	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EMPIRE-DQ0984-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EMPIRE-DQ0984-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103411.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103411.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ENGINE MN037

NGS Name: ENGINE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4917](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	27 N	24 W	444632.29	931650.98	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** ENGINE 1988

IN BURNSVILLE, 0.15 MILE SOUTH ALONG NICOLLET AVENUE FROM THE JUNCTION OF NICOLLET AVENUE AND TRUNK HIGHWAY 13 IN BURNSVILLE, THEN 0.2 MILE WEST AND NORTH ALONG WEST TRAVELERS TRAIL, 42.0 FEET SOUTH OF WEST TRAVELERS TRAIL, 20.0 FEET EAST OF AN ENTRANCE TO YAGGY COLBY ASSOCIATES.

Station Notes

THE ROD DEPTH IS UNKNOWN. DAKOTA COUNTY SURVEY OFFICE FOUND NO SIGN OF MAGNETIC EVIDENCE AT THE LOCATION, DUG DOWN 2.0 INCHES AT THE MONUMENT POSITION AND FOUND NO EVIDENCE OF THE MONUMENT. LOOKS LIKE RECENT UTILITY WORK IN THE AREA AND THE DRIVEWAY ENTRANCE TO THE WEST HAS NEW CURB AND PAVEMENT. 2/6/2020.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	863.335	0.016	263.145	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.360 12B = -89.360 09 = -89.301 03 = -89.107

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 46 32.28287	93 16 50.98030	509307.377	210726.002	155237.199	64229.414			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ENGINE-DO4917-3E-07FEB2020.jpg	E	Feb 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ENGINE-DO4917-2-07FEB2020.jpg		Feb 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ENGINE-DO4917-1-07FEB2020.jpg		Feb 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7380.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7380.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ES 24

NGS Name: ES 24

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0651](#) [Get Map](#)
 NGS Quad / Sta Num : 44092424/
 USGS Quad: DIAMOND BLUFF WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	21	114 N	16 W	443944.26	924432.49	2	3	1950	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** 1950 697 ES 24 TT

IN ETTER, 500.0 FEET SOUTHWEST ALONG COUNTY ROAD 68 FROM THE JUNCTION OF COUNTY ROAD 68 AT COUNTY ROAD 54 IN ETTER, 38.0 FEET NORTHWEST OF COUNTY ROAD 68, 1.0 FOOT SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	697.016	0.016	212.451	0.005	2/1	2016	00000879
NGVD29	696.865	0.016	212.405	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.624 12B = -97.631 09 = -97.572 03 = -97.421

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_24-PP0651-3NW-27SEP2022.jpg	NW	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_24-PP0651-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_24-PP0651-1-15AUG2011.jpg		Aug 15, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7381.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7381.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ES 25

NGS Name: ES 25

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	17	114 N	16 W	444044.00	924513.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2011	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1965) **Stamping:** ES 25 1950

1.4 MILES NORTHWEST OF ETTER ALONG COUNTY HIGHWAY 11, 336.0 FEET SOUTH AND 24.0 FEET EAST OF CENTER OF A TEE-ROAD WEST (185TH STREET EAST), IN THE NORTHWEST CORNER OF A YARD, 49.0 FEET NORTH AND 94.0 FEET WEST OF THE NORTHWEST CORNER OF A FARMHOUSE, BETWEEN TWO SPRUCE TREES, 2.0 FEET NORTH OF A TELEPHONE POLE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.421 12B = -97.428 09 = -97.365 03 = -97.205

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73879.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73879.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ES 26

NGS Name: ES 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0650](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	5	114 N	16 W	444214.41	924544.01	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** ES 26 1950

3.6 MILES NORTHWEST OF ETTER, 3.45 MILES NORTH ALONG COUNTY ROAD 54 FROM THE JUNCTION OF COUNTY ROAD 54 AND COUNTY ROAD 68, 105.0 FEET NORTHWEST OF A PUBLIC ACCESS ROAD, 50.0 FEET NORTHEAST OF A CONCRETE FOOTING OF A RAILROAD SIGNAL, 24.0 FEET EAST OF THE EAST TRACK AT A DOUBLE TRACK RAILROAD CROSSING, 22.0 FEET EAST OF THE EAST RAIL OF A RAILROAD, 29.0 FEET WEST OF COUNTY ROAD 54, 1.0 FOOT WEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	690.320	0.016	210.410	0.005	2/0	1991	00000025
NGVD29	690.166	0.016	210.363	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -97.149 12B = -97.162 09 = -97.100 03 = -96.922

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_26-PP0650-3E-27SEP2022.jpg	E	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_26-PP0650-2-14SEP2011.jpg		Sep 14, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_26-PP0650-1-14SEP2011.jpg		Sep 14, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7382.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7382.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ES 27
County: DAKOTA, MN (Sheet 1)

NGS Name: ES 27

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	115 N	17 W	444328.03	924742.77	2	

NGS ACRN: PP2118	Get Map
NGS Quad / Sta Num : 44092431/	
USGS Quad: HASTINGS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2007) **Stamping:** 1950 715 ES 27 TT

4.0 MILES SOUTHEAST OF THE HASTINGS COURTHOUSE, 2.6 MILES SOUTHEAST OF SEWER DISPOSAL, ALONG COUNTY HIGHWAY 11, 119.0 FEET WEST OF COUNTY HIGHWAY 11 AND A DRIVEWAY SOUTHWEST, 61.0 FEET SOUTHWEST OF COUNTY HIGHWAY, 56.0 FEET EAST-NORTHEAST OF THE CORNER OF A FARMHOUSE, 700.0 FEET SOUTHWEST OF A RAILROAD, OPPOSITE RAILROAD MILEPOST 388, 5.5 FEET NORTHEAST OF A POWER POLE, 1.0 FOOT NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	715.481	0.016	218.079	0.005	2/0	1991	00000025
NGVD29	715.323	0.016	218.031	0.005	2	1971	L22184

Geoid Separations(ft): GEOID18 = -96.506 12B = -96.509 09 = -96.463 03 = -96.276

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_27-PP2118-3SW-27SEP2022.jpg	SW	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_27-PP2118-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_27-PP2118-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7383.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ES 28
County: DAKOTA, MN (Sheet 1)

NGS Name: ES 28

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	115 N	17 W	444357.67	925015.36	2	

NGS ACRN: PP0649	Get Map
NGS Quad / Sta Num : 44092431/	
USGS Quad: HASTINGS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2007) **Stamping:** ES 28 1950 704

AT HASTINGS, 1.4 MILES SOUTHEAST ON A ROAD TO THE STATE HOSPITAL FROM THE COURTHOUSE, FOLLOW BIKE PATH FROM PARKING LOT, 92.5 FEET EAST-SOUTHEAST OF SOUTHEAST CORNER OF 11X15 CHAIN LINK FENCE AROUND UTILITY BOXES, 78.0 FEET SOUTH-SOUTHEAST OF A ROAD FORK TO THE STATE HOSPITAL, 35.0 FEET SOUTH OF ASPHALT BIKE TRAIL, 2.0 FEET EAST OF THE NORTHWEST CORNER OF A WOVEN WIRE FENCE AROUND A PARK, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	704.533	0.016	214.742	0.005	2/0	1991	00000025
NGVD29	704.379	0.016	214.695	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.722 12B = -95.712 09 = -95.672 03 = -95.485

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_28-PP0649-3S-27SEP2022.jpg	S	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_28-PP0649-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ES_28-PP0649-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7384.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ES 29

NGS Name: ES 29

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	115 N	17 W	444436.00	925108.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1950	2022	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (2010)

Stamping: ES 29 1950

IN HASTINGS, 45.0 FEET SOUTH AND 65.0 FEET EAST OF THE JUNCTION OF TRUNK HIGHWAY 61 (VERMILLION STREET) AND WEST 3RD STREET, 20.0 FEET SOUTHEAST OF THE NORTHWEST CORNER OF A COURTHOUSE LAWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.302 12B = -95.305 09 = -95.275 03 = -95.082

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7385.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7385.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: EUREKA MN037

NGS Name: EUREKA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5083](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	16	113 N	20 W	443514.10	931305.42		C	1991	2022	GOOD	Horz=NO Vert=NO	YES		RECESSED 12 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** EUREKA 1991

5.5 MILES SOUTHWEST OF FARMINGTON, AT EUREKA CENTER, IN EUREKA TOWNSHIP, 3.8 MILES SOUTH ALONG COUNTY ROAD 23 (CEDAR AVENUE) FROM THE JUNCTION OF COUNTY ROAD 23 AND TRUNK HIGHWAY 50 THEN 120.0 FEET WEST ON COUNTY ROAD 80 (250TH STREET), 38.0 FEET SOUTH OF COUNTY ROAD 80, 63.0 FEET EAST OF CEDAR AVENUE, 20.0 FEET WEST OF THE WEST RAILROAD TRACK, 7.8 FEET SOUTHEAST OF A RAILROAD CROSSING SIGN, 1.0 FOOT NORTH OF A DAKOTA COUNTY WITNESS POST.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE. DAKOTA COUNTY SURVEYORS REPORTED RAILROAD CROSSING CONSTRUCTION RESULTED IN 1.0 FOOT OF FILL BEING ADDED TO AREA AROUND MARK. THEY INSTALLED A PVC SLEEVE AND ACCESS COVER TO MAINTAIN THE MARK (10/27/21).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.857 12B = -91.857 09 = -91.814 03 = -91.630

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 35 14.09867	93 13 05.41711	525662.392	142054.725	160222.218	43298.367	268.180			2012	GPS2800	
NAD83 (2007)	44 35 14.09881	93 13 05.41784	525662.339	142054.739	160222.201	43298.371	268.201			2007	GPS2300	
NAD83 (1996)	44 35 14.09836	93 13 05.41733	525662.376	142054.694	160222.213	43298.357	268.258	C		2000	GPS1517	
NAD83 (1986)	44 35 14.09121	93 13 05.41597	525662.476	142053.971	160222.243	43298.137		C		1992	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EUREKA-AC5083-3S-01NOV2022.jpg	S	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EUREKA-AC5083-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EUREKA-AC5083-1-11SEP2011.jpg		Sep 11, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7386.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7386.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 117

NGS Name: F 117

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0821](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	31	114 N	19 W	443820.00	930847.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (1973) **Stamping:** F-117 1934

2.0 MILES SOUTHEAST OF FARMINGTON, 0.1 MILE SOUTH ALONG 2ND STREET FROM THE JUNCTION OF EAST ELM STREET AND 2ND STREET.

Station Notes

IN 1973 THE DISK WAS FOUND TO HAVE BEEN REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	907.337	0.016	276.557	0.005	2/0	1991	00000025
NGVD29	907.196	0.007	276.514	0.002	1	1934	L57 MINN

Geoid Separations(ft): GEOID18 = -92.349 12B = -92.355 09 = -92.300 03 = -92.083

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7387.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7387.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 27

NGS Name: F 27

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1486](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	28 N	22 W	445338.00	930209.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	BENCH MARK DISK	NGS

Description: (1973) **Stamping:** F-27 1933

IN SOUTH ST. PAUL, DAKOTA COUNTY, AT THE MAIN ENTRANCE TO THE POST OFFICE, AT 230 NORTH CONCORD STREET, 34.0 FEET NORTH OF THE SOUTHWEST CORNER, 17.0 FEET EAST OF THE CENTERLINE OF THE DOORWAY, 15.0 FEET EAST OF THE EAST CURB, IN THE CENTER OF THE TOP OF THE SOUTH BALUSTRADE OF THE FRONT STEPS, 2.7 FEET HIGHER THAN THE SIDEWALK.

Station Notes

THE STATION WAS DESTROYED, AND STATION F 27 RESET WAS SET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	711.016	0.016	216.718	0.005	2/0	1991	00000025
NGVD29	710.871	0.007	216.674	0.002	1	1972	L123 MINN

Geoid Separations(ft): GEOID18 = -90.705 12B = -90.715 09 = -90.640 03 = -90.459

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: F 27 RESET

NGS Name: F 27 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1487](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	22	28 N	22 W	445338.43	930208.43	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1973	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEP	VERTICAL CONTROL DISK	NGS

Description: (2010) **Stamping:** F 27 RESET 1973

IN SOUTH ST. PAUL, 29.5 FEET EAST OF CONCORD EXCHANGE NORTH, THEN 1.2 MILE NORTH ALONG TRUNK HIGHWAY 156 FROM THE JUNCTION OF TRUNK HIGHWAY 156 AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, THEN 0.05 MILE WEST OF GRAND AVENUE, THEN 0.1 MILE NORTH ON CONCORD EXCHANGE NORTH, AT THE POST OFFICE ENTRANCE, 1.0 FOOT WEST OF THE WEST WALL, 1.0 FOOT NORTH OF THE SOUTH EDGE OF THE STEPS, 18.0 FEET SOUTH OF A POST OFFICE ENTRANCE DOOR, AT THE TOP STEP OF A POST OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	710.701	0.016	216.622	0.005	2/1	2020	00000955
NGVD29	710.524	0.016	216.568	0.005	2	1978	L123 MINN

Geoid Separations(ft): GEOID18 = -90.708 12B = -90.718 09 = -90.640 03 = -90.462

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/F_27_RESET-PP1487-3E-20SEP2016.jpg	E	Sep 20, 2016
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/F_27_RESET-PP1487-2-20SEP2016.jpg		Sep 20, 2016
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/F_27_RESET-PP1487-1-20SEP2016.jpg		Sep 20, 2016

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7389.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7389.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FARMINGTON CENTER PHONE MAST

NGS Name: FARMINGTON CENTER PHONE MAST

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2602](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	31	114 N	19 W	443818.40	930911.97		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2011	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	RADIO/TV MAST	MNDT

Description: (1981)

Stamping:

IN THE WEST PART OF FARMINGTON, 0.2 MILE SOUTH OF TRUNK HIGHWAY 50, 0.2 MILE EAST OF COUNTY ROAD 31, 125.0 FEET NORTH OF SPRUCE STREET.

Station Notes

THE TOWER IS GONE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.264 12B = -92.270 09 = -92.214 03 = -91.998

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 38 18.40283	93 09 11.96798	542520.455	160747.495	165360.565	48995.935	4	1999	17648			
NAD83 (1986)	44 38 18.39490	93 09 11.96635	542520.574	160746.693	165360.602	48995.690	4	1986	17289			
NAD27	44 38 18.51988	93 09 11.18616					4	1982	16778			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FARMINGTON_CENTER_PHONE_MAST-PP2602-3W-24OCT2006.jpg	W	Oct 24, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7390.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7390.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FARQU MN037

NGS Name: FARQU

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	24	115 N	20 W	444520.17	931009.43		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1988) **Stamping:** FARQU 1988

IN APPLE VALLEY, 0.85 MILE NORTH ALONG COUNTY ROAD 31 (PILOT KNOB ROAD) FROM THE JUNCTION OF COUNTY ROAD 31 AND COUNTY ROAD 40, NEAR AN ENTRANCE TO FARQUAR HILLS PARK, 400.0 FEET EAST OF COUNTY ROAD 31, 65.0 FEET SOUTH OF A PICNIC SHELTER, 33.0 FEET WEST-SOUTHWEST OF 6.0 INCH DIAMETER MAPLE TREE. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE TIES FALL IN THE BACK YARD OF HOUSE NUMBER 13430 ELKWOOD DRIVE. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.587 12B = -90.590 09 = -90.521 03 = -90.315

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 45 20.16697	93 10 09.42820	538288.215	203454.783	164070.576	62013.142		C	1992	H1992

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7391.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7391.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FINA MN037

NGS Name: FINA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3202](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	3	27 N	22 W	445053.05	930229.94		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SURVEY DISK	MN-037

Description: (1988)

Stamping: FINA

IN INVER GROVE HEIGHTS, AT THE JUNCTION OF COUNTY ROAD 75 (CAHILL AVENUE) AND COUNTY ROAD 26, 250.0 FEET EAST OF COUNTY ROAD 75, 20.0 FEET NORTH OF EASTBOUND COUNTY ROAD 26, IN THE MEDIAN, 41.0 FEET EAST OF CARLEDA AVENUE.

Station Notes

THE AREA HAS A NEW CONCRETE MEDIAN IN 2006, CONSIDER DESTROYED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.014 12B = -91.023 09 = -90.961 03 = -90.771

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 50 53.04696	93 02 29.93771	571332.958	237254.551	174142.634	72315.332	241.241	2	1999	17648		
NAD83 (1986)	44 50 53.03915	93 02 29.93466	571333.181	237253.761	174142.702	72315.091		2	1991	GPS194		
NAD27	44 50 53.16072	93 02 29.15975						2	1991	17504		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7392.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7392.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLEMING MNDT

NGS Name: FLEMING

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2532](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	28 N	22 W	445157.05	930147.03		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2023	DESTROYED	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2009) **Stamping:** FLEMING 1975

IN SOUTH ST. PAUL, 0.75 MILE SOUTH ALONG COUNTY ROAD 56 FROM THE JUNCTION OF COUNTY ROAD 56/TRUNK HIGHWAY 156 AND INTERSTATE HIGHWAY 494, THEN 0.3 MILE WEST ON POPLAR STREET, THEN 0.1 MILE SOUTH ON HENRY AVENUE, 25.0 FEET EAST OF HENRY AVENUE, 19.0 FEET SOUTH OF EXTENDED ALLEY, 7.5 FEET WEST OF A FENCE, 5.0 FEET WEST OF A WITNESS POST, 65.63 FEET NORTH OF FLEMING RM 2, 70.72 FEET SOUTH OF FLEMING RM 1.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.994 12B = -91.007 09 = -90.935 03 = -90.751

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 57.04870	93 01 47.02940	574401.604	243747.325	175077.959	74294.333	222.665			2014	GPS2983	
NAD83 (2007)	44 51 57.04858	93 01 47.03036	574401.535	243747.312	175077.938	74294.329	222.692			2007	GPS2300	
NAD83 (1996)	44 51 57.04853	93 01 47.02960	574401.590	243747.307	175077.955	74294.328	222.767	C		2014	HDAKR	
NAD83 (1986)	44 51 57.03964	93 01 47.02682	574401.793	243746.408	175078.017	74294.054		2		1986	17289	
NAD27	44 51 57.16129	93 01 46.25238							2	1991	17504	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING-PP2532-3E-30AUG2011.jpg	E	Aug 30, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING-PP2532-2-30AUG2011.jpg		Aug 30, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING-PP2532-1-30AUG2011.jpg		Aug 30, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7393.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7393.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLEMING RM 1

NGS Name: FLEMING RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4105](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>				
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>				
SE	34	28 N	22 W	445157.75	930147.02		3				
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1975	2023	DESTROYED	Horz=YES Vert=YES	YES		FLUSH	STEEL ROD IMBED IN MON				

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** FLEMING NO 1 1975

IN SOUTH ST. PAUL, 0.7 MILE SOUTH ALONG COUNTY ROAD 56 FROM THE JUNCTION OF COUNTY ROAD 56/TRUNK HIGHWAY 156 AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, THEN 0.3 MILE WEST ON POPLAR STREET, THEN 0.1 MILE SOUTH ON HENRY AVENUE, 70.72 FEET NORTH OF STATION FLEMING MNDT, 25.0 FEET EAST OF HENRY AVENUE, 7.5 FEET WEST OF A FENCE, 8.5 FEET EAST OF THE BACK OF A CURB, 6.6 FEET WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.994 12B = -91.004 09 = -90.932 03 = -90.751

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING_RM_1-CJ4105-3E-30AUG2011.jpg	E	Aug 30, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING_RM_1-CJ4105-2-30AUG2011.jpg		Aug 30, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING_RM_1-CJ4105-1-30AUG2011.jpg		Aug 30, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64135.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64135.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLEMING RM 2

NGS Name: FLEMING RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4106](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>					
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>					
SE	34	28 N	22 W	445156.40	930147.04		3					
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>					
1975	2023	DESTROYED	Horz=YES Vert=YES	YES		RECESSED 1 IN.	STEEL ROD IMBED IN MON					

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** FLEMING NO 2 1975

IN SOUTH ST. PAUL, 0.7 MILE SOUTH ALONG COUNTY ROAD 56 FROM THE JUNCTION OF COUNTY ROAD 56/TRUNK HIGHWAY 156 AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, THEN 0.3 MILE WEST ON POPLAR STREET, THEN 0.1 MILE SOUTH ON HENRY AVENUE, 65.63 FEET SOUTH OF STATION FLEMING MNDT, 25.0 FEET EAST OF HENRY AVENUE, 7.5 FEET WEST OF A FENCE, 8.5 FEET EAST OF THE BACK OF A CURB, 7.2 FEET WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.997 12B = -91.007 09 = -90.935 03 = -90.754

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING_RM_2-CJ4106-3E-30AUG2011.jpg	E	Aug 30, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING_RM_2-CJ4106-2-30AUG2011.jpg		Aug 30, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMING_RM_2-CJ4106-1-30AUG2011.jpg		Aug 30, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64138.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64138.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLEMPORT

NGS Name: FLEMPORT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3203](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	28 N	22 W	445144.17	930208.20		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 65 FT)	METAL ROD	NGS

Description: (1989) **Stamping:** FLEMPORT 1989

IN SOUTH ST. PAUL, AT FLEMING FIELD AIRPORT, AT THE NORTHWEST END OF RUNWAY 16/34, 116.7 FEET WEST-SOUTHWEST OF A RUNWAY, 52.3 FEET SOUTHWEST OF END LIGHT AT THE NORTHWEST END OF A RUNWAY, 151.2 FEET NORTH-NORTHWEST OF END LIGHT ON THE NORTHEAST SIDE OF A RUNWAY, 165.5 FEET EAST OF A FENCE.

Station Notes

DESTROYED, THE AREA HAS A NEW ACCESS ROAD, 1 PHOTO OF WHERE STRONG SIGNAL WITH LOCATOR WAS ON NEW BLACKTOP IN 2006.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.955 12B = -90.968 09 = -90.899 03 = -90.712

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 51 44.17435	93 02 08.20085	572881.198	242438.088	174614.539	73895.277	221.859	2	1999	17648		
NAD83 (1986)	44 51 44.16653	93 02 08.19780	572881.421	242437.297	174614.606	73895.036		2	1991	GPS194		
NAD27	44 51 44.28822	93 02 07.42282						2	1991	17504		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMPORT-PP3203-3E-01DEC2006.jpg	E	Dec 1, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMPORT-PP3203-2-01DEC2006.jpg		Dec 1, 2006
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7394.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7394.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FLEMPORT AZ MK

NGS Name: FLEMPORT AZ MK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3204](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	3	27 N	22 W	445106.48	930151.44		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 60 FT)	METAL ROD	NGS

Description: (2006) **Stamping:** FLEMPORT AZ MK 1989

IN SOUTH ST. PAUL, AT THE FLEMING FIELD AIRPORT, AT THE SOUTHEAST END OF A RUNWAY 16/34, 118.5 FEET
 SOUTHWEST OF RUNWAY CENTERLINE, STATION FLEMPORT AZ MK IS ONLINE WITH THE END OF A RUNWAY, 59.1 FEET
 WEST OF THE END LIGHT. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA
 DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

CONTACT AIRPORT MANAGER BEFORE USE. SOUTH ST. PAUL MUNICIPAL AIRPORT. THE SURVEY MARK IS ON PRIVATE
 PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.109 12B = -91.119 09 = -91.050 03 = -90.866

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 51 06.47571	93 01 51.44390	574101.614	238624.164	174986.522	72732.791	221.075	2	1999	17648
NAD83 (1986)	44 51 06.46789	93 01 51.44085	574101.837	238623.373	174986.590	72732.550		2	1991	GPS194
NAD27	44 51 06.58931	93 01 50.66710						2	1991	17504

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMPORT_AZ_MK-PP3204-3W-30AUG2011.jpg	W	Aug 30, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMPORT_AZ_MK-PP3204-2-30AUG2011.jpg		Aug 30, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FLEMPORT_AZ_MK-PP3204-1-30AUG2011.jpg		Aug 30, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7395.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7395.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FORD

NGS Name: FORD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7403](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	29	28 N	22 W	445246.91	930500.03	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** FORD 2014

IN INVER GROVE HEIGHTS, 0.05 MILE NORTH-NORTHEAST ALONG COUNTY ROAD 14 (MENDOTA ROAD) FROM THE JUNCTION OF MENDOTA ROAD AND TRUNK HIGHWAY 110 IN INVER GROVE HEIGHTS TO TRUNK HIGHWAY 110 MILEPOINT 4.15, THEN 0.4 MILE EAST-SOUTHEAST ON 50TH STREET EAST, 39.4 FEET NORTH-NORTHEAST OF 50TH STREET EAST, 61.8 FEET EAST-SOUTHEAST OF AN ENTRANCE TO KREMER SERVICE, 70.8 FEET WEST-NORTHWEST OF AN ENTRANCE TO A FORD DEALER, 12.0 FEET WEST OF A WITNESS POST.

Station Pair: BUICK - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	964.483	0.016	293.975	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.308 12B = -90.315 09 = -90.275 03 = -90.072

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 52 46.90673	93 05 00.03141		560485.854	248752.575	170836.430	75819.937	266.441		2015	GPS3101
NAD83 (1996)	44 52 46.90656	93 05 00.03171		560485.832	248752.558	170836.423	75819.931	266.515	C	2015	HFARM2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FORD-DP7403-3NE-02AUG2023.jpg	NE	Aug 2, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FORD-DP7403-2-02AUG2023.jpg		Aug 2, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FORD-DP7403-1-02AUG2023.jpg		Aug 2, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101806.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101806.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FRANK MN037

NGS Name: FRANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	14	114 N	20 W	444050.69	931048.41			1988	2011	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** FRANK 1988

IN FARMINGTON, 3.5 MILES SOUTH OF THE JUNCTION OF COUNTY ROAD 42 AND COUNTY ROAD 31, THEN 0.2 MILE WEST ON EUCLID PATH, THENCE 0.1 MILE WEST ON ESQUIRE WAY TO DAISY KNOLL PARK, FOLLOW THE BIKE PATH TO A WATER TANK, 25.0 FEET SOUTHWEST OF A WATER TOWER, 2.5 FEET SOUTHWEST OF A STEEL SIGNPOST, STATION FRANK MN037 IS BEHIND A 10.0 FEET CHAIN FENCE.

Station Notes

THE COUNTY RAN LEVELS TO THE STATION IN 1992.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.443 12B = -91.443 09 = -91.384 03 = -91.165

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 40 50.69083	93 10 48.41976	535520.195	176157.906	163226.882	53693.037			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FRANK-3E-26OCT2006.jpg	E	Oct 26, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FRANK-2-26OCT2006.jpg		Oct 26, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/FRANK-1-26OCT2006.jpg		Oct 26, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7396.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7396.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: FRITZ MNDT AZ MK

NGS Name: FRITZ AZ MK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2683](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/1139
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	27 N	24 W	444755.76	931722.09		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	YES	5983		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	AZIMUTH MARK DISK	MNDT

Description: (1997)

Stamping:

IN BLOOMINGTON, 0.25 MILE SOUTH OF THE MINNESOTA RIVER, IN THE SOUTHEAST CORNER OF INTERSTATE HIGHWAY 35W BRIDGE NUMBER 5983.

Station Notes

METRO DISTRICT REPORTED THE MARK WAS DESTROYED DUE TO BRIDGE WIDENING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.193 12B = -89.196 09 = -89.111 03 = -88.937

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 47 55.75766	93 17 22.09267	507060.132	219179.403	154552.237	66806.016	198.798	2	1999	17648		
NAD83 (1986)	44 47 55.75049	93 17 22.09030	507060.302	219178.677	154552.289	66805.794		2	1986	17289		
NAD27	44 47 55.87668	93 17 21.28431						2	1965	13600		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7397.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7397.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: G 117

NGS Name: G 117

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0822](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	31	114 N	19 W	443823.00	930838.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (1973) **Stamping:** G-117 1934

2.0 MILES SOUTHEAST OF FARMINGTON, 0.7 MILE SOUTH ALONG 4TH STREET FROM THE JUNCTION OF 4TH STREET AND EAST ELM STREET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	904.437	0.016	275.673	0.005	2/0	1991	00000025
NGVD29	904.296	0.007	275.630	0.002	1	1934	L57 MINN

Geoid Separations(ft): GEOID18 = -92.375 12B = -92.378 09 = -92.323 03 = -92.109

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7398.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7398.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GALAXIE MNDT

NGS Name: GALAXIE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2540](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	27 N	23 W	444725.48	931201.49		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2004	DESTROYED	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2002) **Stamping:** GALAXIE 1974

BYPASS CONSTRUCTION HAS BURIED THIS STATION BY APPROXIMATELY 20.0 FEET.
 IN EAGAN, 1.0 MILE SOUTHEAST OF CEDAR GROVE SCHOOL, 0.9 MILE EAST ON CLIFF ROAD FROM THE JUNCTION OF TRUNK HIGHWAY 77 AND CLIFF ROAD, 98.0 FEET NORTH OF CLIFF ROAD, 49.6 FEET NORTH OF AN EAST-WEST FENCE, 111.0 FEET NORTHEAST OF A POWER POLE, 120.5 FEET EAST OF AN 18.0 INCH DIAMETER OAK TREE, 51.7 FEET NORTH-NORTHEAST OF A WITNESS POST.

Station Notes

IN 1996 DISTRICT 9 SURVEYS COULD NOT FIND THE STATION.
 IN 2002 DETAILS WERE RECEIVED THAT THE BYPASS CONSTRUCTION HAS BURIED THIS MARK BY APPROXIMATELY 20.0 FEET, DID NOT DIG 20.0 FEET TO THE MARK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.921 12B = -89.924 09 = -89.855 03 = -89.665

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 47 25.47640	93 12 01.48571	530183.579	216132.899	161600.278	65877.440	267.076	2	1999	17648		
NAD83 (1986)	44 47 25.47026	93 12 01.48359	530183.733	216132.278	161600.325	65877.250		2	1986	17289		
NAD27	44 47 25.59482	93 12 00.68805						2	1979	15198		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7399.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7399.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GAS MN037

NGS Name: GAS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5064](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	115 N	21 W	444442.31	931924.27		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2000) **Stamping:** GAS 1988

IN BURNSVILLE, IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF COUNTY ROAD 42 AND BURNSVILLE PARKWAY, 500.0 FEET SOUTH OF THE JUNCTION OF COUNTY ROAD 42 AND BURNSVILLE PARKWAY, 160.0 FEET NORTH OF CORPORATE CENTER DRIVE, 76.0 FEET SOUTH-SOUTHWEST OF A POWER POLE, 40.5 FEET NORTH OF A FIRE HYDRANT, IN A BOULEVARD, 7.0 FEET WEST OF THE WEST EDGE OF A SIDEWALK, THE COUNTY RAN LEVELS TO STATION GAS MN037 IN 1992.

Station Notes

REFERENCE LOCATION AND TIES LOCATION FALL IN THE TURN LANE ASSUMED DESTROYED DURING CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.212 12B = -89.206 09 = -89.144 03 = -88.953

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 42.30579	93 19 24.26950	498248.296	199585.681	151866.384	60833.837	247.178			2012	GPS2800	
NAD83 (2007)	44 44 42.30576	93 19 24.27012	498248.251	199585.677	151866.371	60833.836	247.206			2007	GPS2300	
NAD83 (1996)	44 44 42.30526	93 19 24.26955	498248.292	199585.627	151866.383	60833.821	247.257	C		1997	GPS805-	
NAD83 (1986)	44 44 42.29876	93 19 24.26790	498248.410	199584.968	151866.419	60833.620		C		1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GAS-AC5064-3E-27OCT2006.jpg	E	Oct 27, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GAS-AC5064-2-27OCT2006.jpg		Oct 27, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GAS-AC5064-1-27OCT2006.jpg		Oct 27, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7400.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7400.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GASLINE MN037

NGS Name: GASLINE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SE	20	27 N	22 W	444835.65	930412.73						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1988	2023	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET				

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2006) **Stamping:** GASLINE

IN INVER GROVE HEIGHTS, 0.55 MILE SOUTHEAST OF THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 7 (RICH VALLEY BOULEVARD) THEN 0.4 MILE EAST ON 97TH STREET THEN 0.15 MILE NORTH ON ARNOLD AVENUE THEN 283.0 FEET EAST ON 96TH STREET, ON THE SOUTH SIDE OF 96TH STREET, 57.0 FEET NORTHWEST OF A CORNER FENCE POST, 42.0 FEET WEST OF A CONCRETE SLAB WITH MAILBOXES, 2.0 FEET SOUTH OF THE EDGE OF BITUMINOUS.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.082 12B = -91.079 09 = -91.020 03 = -90.836

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 48 35.64206	93 04 12.72594	563969.318	223314.507	171898.192	68066.398			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GASLINE-3S-30NOV2006.jpg	S	Nov 30, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GASLINE-2-30NOV2006.jpg		Nov 30, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GASLINE-1-30NOV2006.jpg		Nov 30, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7401.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7401.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GERNADA

NGS Name: GERNADA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ3482](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	113 N	20 W	443246.11	931321.32		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** GERNADA 2014

3.5 MILES WEST OF CASTLE ROCK, 3.5 MILES WEST ALONG COUNTY ROAD 86 FROM THE JUNCTION OF COUNTY ROAD 86 AND DANVILLE AVENUE IN CASTLE ROCK, THEN 0.15 MILE NORTH ON GERNADA AVENUE, 34.0 FEET EAST OF GERNADA AVENUE, 2.0 FEET NORTH OF DRIVEWAY NUMBER 27801, 1.5 FEET WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.106 12B = -92.119 09 = -92.070 03 = -91.890

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 46.10946	93 13 21.32382	524528.484	127065.668	159876.602	38729.693	294.247	2016	GPS3152			
NAD83 (1996)	44 32 46.10934	93 13 21.32412	524528.462	127065.656	159876.595	38729.690	294.312	C	2016	HDAK2		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GERNADA-DQ3482-3E-01NOV2022.jpg	E	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GERNADA-DQ3482-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GERNADA-DQ3482-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102047.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102047.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOAT MN037

NGS Name: GOAT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	26	27 N	23 W	444756.91	930848.33		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	SURVEY DISK	MN-037

Description: (1992) **Stamping:** GOAT 1988

IN EAGAN, 0.35 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 30 (DIFFLEY ROAD) AND COUNTY ROAD 43 (LEXINGTON AVENUE) THEN 0.15 MILE WEST ON GOAT HILL PARK, 26.3 FEET NORTHWEST OF THE NORTHWEST CORNER OF A BASEBALL DIAMOND FENCE, 71.2 FEET SOUTHWEST OF A LIGHT POLE, 53.0 FEET SOUTH-SOUTHWEST OF AN ELECTRIC METER ON A SCORE BOARD, 51.0 FEET NORTH-NORTHWEST OF THE NORTHEAST SQUARE POST OF A BATTING CAGE, 51.2 FEET EAST-SOUTHEAST OF MOST EASTERLY CORNER OF A 5.0 FEET WOOD FENCE, 41.8 FEET WEST-SOUTHWEST OF A FLAG POLE, 5.0 FEET EAST OF A WITNESS POST.

Station Notes

THE COUNTY RAN LEVELS TO THE STATION IN 1992.
 ALUMINUM ALLOY ROD OF UNKNOWN LENGTH

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.361 12B = -90.361 09 = -90.292 03 = -90.108

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 47 56.89903	93 08 48.33274	544107.265	219339.837	165844.226	66854.916		C	1991	H1991

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOAT-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOAT-2-04OCT2011.jpg		Oct 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOAT-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7402.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7402.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOLF

NGS Name: GOLF

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4926](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	27 N	23 W	445123.19	931040.87	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 38 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** GOLF 2011

IN EAGAN, 0.34 MILE SOUTHWEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 494 IN EAGAN, AT TRUNK HIGHWAY 13 MILEPOINT 105.63, 79.2 FEET SOUTHEAST OF TRUNK HIGHWAY 13, 70.8 FEET NORTHEAST OF A FIELD ENTRANCE, 12.0 FEET SOUTHEAST OF A POWER POLE, 12.3 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	745.182	0.016	227.132	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.718 12B = -89.714 09 = -89.623 03 = -89.478

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 51 23.18890	93 10 40.87362	535956.390	240217.502	163359.834	73218.441	199.782			2014	GPS2981	
NAD83 (1996)	44 51 23.18861	93 10 40.87388	535956.371	240217.473	163359.829	73218.432	199.861	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOLF-DO4926-3SE-01AUG2023.jpg	SE	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOLF-DO4926-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOLF-DO4926-1-01AUG2023.jpg		Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95080.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95080.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOODWIN MN037

NGS Name: GOODWIN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	114 N	18 W	444004.87	925715.59		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** GOODWIN 1991

7.25 MILES SOUTHWEST OF HASTINGS, IN VERMILLION TOWNSHIP, 0.4 MILE SOUTH ALONG COUNTY ROAD 85 FROM THE JUNCTION OF COUNTY ROAD 85 AND COUNTY ROAD 62, 21.0 FEET WEST OF COUNTY ROAD 85, 17.0 FEET SOUTH OF A FIELD ENTRANCE, 3.0 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.573 12B = -94.557 09 = -94.495 03 = -94.347

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 40 04.87001	92 57 15.59118	594273.264	171697.255	181134.853	52333.428		C	1992	C019

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7403.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7403.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GOULD

NGS Name: GOULD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1001](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	113 N	18 W	443342.18	925703.84	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** GOULD 2015

4.5 MILES NORTHWEST OF CANNON FALLS, 4.1 MILES NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 52 MILEPOINT 102.2, 81.0 FEET NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52 FOG LINE, 0.35 MILE SOUTHEAST OF GOULD TRAIL, 1.5 FEET NORTHWEST OF A WITNESS POST.

Station Pair: OLD BAR MN037 - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	876.488	0.016	267.154	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.538 12B = -95.528 09 = -95.469 03 = -95.334

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 33 42.18064	92 57 03.83777	595296.717	132944.061	181446.802	40521.431	238.029			2016	GPS3146	
NAD83 (1996)	44 33 42.18053	92 57 03.83823	595296.683	132944.050	181446.792	40521.427	238.093	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOULD-DQ1001-3NE-06OCT2022.jpg	NE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOULD-DQ1001-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GOULD-DQ1001-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103412.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103412.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRAVES MN037

NGS Name: GRAVES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DL5360](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	34	27 N	24 W	444654.08	931609.98		C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2007	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
OBJECT DRIVEN INTO THE GROUND	HORIZONTAL CONTROL DISK	MNDT

Description: (2006) **Stamping:** GRAVES 1988

IN BURNSVILLE, 0.5 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND NICOLLET AVENUE, 0.13 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 13 AND PORTLAND AVENUE, 125.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 13, IN FRONT OF PLEASANT VIEW MEMORIAL GARDENS CEMETERY, 170.0 FEET EAST OF A CEMETERY ENTRANCE, 29.0 FEET NORTHEAST OF THE CENTER OF A MANHOLE, 10.5 FEET NORTH OF A BIKE PATH, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes

THE STATION WAS REPORTED REMOVED BY MARK JOHNSON FROM CORNERSTONE CONSTRUCTION SERVICES, LLC ON 12/1/2009.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.409 12B = -89.409 09 = -89.350 03 = -89.160

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 46 54.08203	93 16 09.98288	512263.616	212935.311	156138.262	64902.813	239.975			2012	GPS2800	
NAD83 (2007)	44 46 54.08220	93 16 09.98346	512263.574	212935.328	156138.250	64902.818	239.993	C		2009	GPS2578	
NAD83 (1996)	44 46 54.08192	93 16 09.98304	512263.604	212935.300	156138.259	64902.809	240.031	C		2008	HHNPN	
NAD83 (1986)	44 46 54.07483	93 16 09.98134	512263.726	212934.581	156138.296	64902.590		C		1989	C019	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRAVES-DL5360-3E-02AUG2006.jpg	E	Aug 2, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRAVES-DL5360-2-02AUG2006.jpg		Aug 2, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRAVES-DL5360-1-02AUG2006.jpg		Aug 2, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7404.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7404.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GREEN MN037

NGS Name: GREEN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	14	112 N	20 W	443054.24	931120.89		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** GREEN 1991

4.25 MILES NORTH-NORTHWEST OF NORTHFIELD, IN GREENVALE TOWNSHIP, 2.0 MILES SOUTH ALONG COUNTY ROAD 23/FOLIAGE AVENUE FROM THE JUNCTION OF COUNTY ROAD 23 AND COUNTY ROAD 86/280TH STREET THEN 0.6 MILE EAST ON 300TH STREET, 12.0 FEET SOUTH OF A 300TH STREET, 47.0 FEET WEST-NORTHWEST OF A POWER POLE, 6.4 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.674 12B = -92.703 09 = -92.644 03 = -92.480

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 30 54.23541	93 11 20.89074	533268.536	115747.482	162540.575	35279.903			C	1992	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GREEN-3S-01NOV2022.jpg	S	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GREEN-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GREEN-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7405.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7405.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRISM MNDT

NGS Name: GRISM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AB9790](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	20	112 N	19 W	442945.73	930824.20	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** GRISM 1988

3.0 MILES NORTH OF NORTHFIELD IN WATERFORD TOWNSHIP, 0.9 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD TO TRUNK HIGHWAY 3 MILEPOINT 15.9, THEN 0.35 MILE EAST ON 313TH STREET, 62.0 FEET NORTH OF STATION GRISM RM 2, 34.5 FEET NORTH OF 313TH STREET, 27.5 FEET WEST-NORTHWEST OF A POWER POLE, 37.2 FEET WEST OF GRISM MNDT RM 1, 3.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	979.309	0.016	298.494	0.005	2/1	2016	00000879
NGVD29	979.250	0.016	298.476	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.313 12B = -93.343 09 = -93.287 03 = -93.136

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 29 45.72935	93 08 24.19638	546087.411	108833.465	166447.776	33172.506	270.059					2014	GPS3021	
NAD83 (2007)	44 29 45.72940	93 08 24.19711	546087.358	108833.470	166447.760	33172.508	270.083					2007	GPS2300	
NAD83 (1996)	44 29 45.72918	93 08 24.19655	546087.399	108833.448	166447.772	33172.501	270.106	C				2012	HNORTH	
NAD83 (1986)	44 29 45.72124	93 08 24.19602	546087.438	108832.643	166447.784	33172.256		C				1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRISM-AB9790-3N-30OCT2014.jpg	N	Oct 30, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRISM-AB9790-2-30OCT2014.jpg		Oct 30, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRISM-AB9790-1-30OCT2014.jpg		Oct 30, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7406.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7406.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRISM MNDT RM 1

NGS Name: GRISM RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4312](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	112 N	19 W	442945.73	930823.68	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** GRISM NO 1 1988

3.0 MILES NORTH OF NORTHFIELD IN WATERFORD TOWNSHIP, 0.9 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD TO TRUNK HIGHWAY 3 MILEPOINT 15.9, THEN 0.35 MILE EAST ON 313TH STREET, 37.2 FEET EAST OF STATION GRISM MNDT, 35.0 FEET NORTH OF 313TH STREET, 22.0 FEET NORTHEAST OF A POWER POLE, 3.0 FEET SOUTH OF A WITNESS POST, 72.81 FEET NORTHEAST OF GRISM REFERENCE MARK 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	977.521	0.016	297.949	0.005	2/1	2016	00000879
NGVD29	977.465	0.016	297.932	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.313 12B = -93.346 09 = -93.290 03 = -93.136

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRISM_RM_1-DM4312-3N-30OCT2014.jpg	N	Oct 30, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRISM_RM_1-DM4312-2-30OCT2014.jpg		Oct 30, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRISM_RM_1-DM4312-1-30OCT2014.jpg		Oct 30, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7407.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7407.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRISM MNDT RM 2

NGS Name: GRISM RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NW	20	112 N	19 W	442945.73	930824.22			1988	2022	NOT FOUND	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** GRISM NO 2 1988

3.0 MILES NORTH OF NORTHFIELD IN WATERFORD TOWNSHIP, 0.9 MILE NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 47 IN WATERFORD TO TRUNK HIGHWAY 3 MILEPOINT 15.9, THEN 0.35 MILE EAST ON 313TH STREET, 28.0 FEET SOUTH OF 313TH STREET, 56.2 FEET SOUTH-SOUTHWEST OF A POWER POLE, 65.0 FEET SOUTH OF A WITNESS POST, 72.81 FEET SOUTHWEST OF GRISM REFERENCE MARK 1.

* No 1st or 2nd Order Vertical Positions in the Database *

No Geoid Separations Available

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110307.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110307.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRVAL MNDT

NGS Name: GRVAL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AB9791](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	112 N	19 W	443236.81	930843.61	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** GRVAL 1988

0.5 MILE EAST OF CASTLE ROCK, 0.35 MILE EAST OF THE JUNCTION OF COUNTY ROAD 86 AND A RAILROAD, 54.0 FEET SOUTH OF COUNTY ROAD 86, 14.0 FEET EAST OF AN ENTRANCE, 33.1 FEET SOUTH OF GRVAL MNDT RM 1, 37.2 FEET WEST OF GRVAL MNDT RM 2, 3.6 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK IS LOOSE, REPLACED WITH GEODETIC CONTROL DISK STAMPED GRVAL RESET 1988 2004.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.532	0.016	280.274	0.005	2/1	2011	00000676
NGVD29	919.463	0.016	280.253	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.028 12B = -93.051 09 = -92.999 03 = -92.821

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 36.81095	93 08 43.60822	544643.880	126156.724	166007.787	38452.646	251.657			2012	GPS2800	
NAD83 (2007)	44 32 36.81104	93 08 43.60895	544643.826	126156.733	166007.770	38452.649	251.681			2007	GPS2300	
NAD83 (1996)	44 32 36.81079	93 08 43.60800	544643.895	126156.708	166007.791	38452.642	251.732	C		2000	GPS1517	
NAD83 (1986)	44 32 36.80266	93 08 43.60740	544643.940	126155.883	166007.805	38452.390		C		1989	HCANN	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7408.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7408.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRVAL MNDT RESET

NGS Name: GRVAL RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7766](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	112 N	19 W	443236.81	930843.61		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2004	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description: (2011) **Stamping:** GRVAL RESET 1988 2004

0.5 MILE EAST OF CASTLE ROCK, 0.35 MILE EAST OF THE JUNCTION OF COUNTY ROAD 86 AND A RAILROAD, 54.0 FEET SOUTH OF COUNTY ROAD 86 IN CASTLE ROCK, 14.0 FEET EAST OF AN ENTRANCE, 33.1 FEET SOUTH OF GRVAL MNDT RM 1, 37.2 FEET WEST OF GRVAL MNDT RM 2, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED INTO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.028 12B = -93.051 09 = -92.999 03 = -92.821

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 36.81064	93 08 43.60825	544643.877	126156.693	166007.786	38452.637	251.682			2014	GPS3021	
NAD83 (2007)	44 32 36.81082	93 08 43.60888	544643.832	126156.711	166007.772	38452.642	251.704			2007	GPS2300	
NAD83 (1996)	44 32 36.81051	93 08 43.60855	544643.856	126156.679	166007.779	38452.633	251.730	C		2012	HNORTH	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RESET-DG7766-3S-08SEP2011.jpg	S	Sep 8, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RESET-DG7766-2-08SEP2011.jpg		Sep 8, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RESET-DG7766-1-08SEP2011.jpg		Sep 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_50732.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50732.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRVAL MNDT RESET 2

NGS Name: GRVAL RESET 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8569](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	112 N	19 W	443236.81	930843.61	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** GRVAL RESET 2004 2014

6.7 MILES SOUTH OF FARMINGTON, 6.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 19.30, THEN 0.45 MILE WEST ON COUNTY ROAD 86 (280TH STREET WEST), 54.0 FEET SOUTH OF COUNTY ROAD 86, 14.0 FEET EAST OF A FIELD ENTRANCE, 33.1 FEET SOUTH OF GRVAL MNDT RM 1, 1.0 FOOT NORTH OF A WITNESS POST.

Station Pair: BURMA - DAKOTA, MN

Station Notes

STATION WILL BE DESTROYED FALL 2022 OR SPRING 2023 FOR SHOULDER AND DITCH WIDENING.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	918.515	0.016	279.964	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.028 12B = -93.051 09 = -92.999 03 = -92.821

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 36.81103	93 08 43.60797	544643.898	126156.732	166007.792	38452.649	251.613	2015	C	GPS3101		
NAD83 (1996)	44 32 36.81101	93 08 43.60833	544643.871	126156.730	166007.784	38452.648	251.680	2015	C	HFARM2		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RESET_2-DP8569-3S-27OCT2022.jpg	S	Oct 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RESET_2-DP8569-2-27OCT2022.jpg		Oct 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RESET_2-DP8569-1-27OCT2022.jpg		Oct 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102740.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102740.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRVAL MNDT RM 1

NGS Name: GRVAL RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4299](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	6	112 N	19 W	443237.13	930843.61	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** GRVAL NO 1 1988

6.7 MILES SOUTH OF FARMINGTON, 6.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 19.30, THEN 0.45 MILE WEST ON COUNTY ROAD 86 (280TH STREET WEST), 33.1 FEET NORTH OF STATION GRVAL MNDT, 22.5 FEET SOUTH OF COUNTY ROAD 86 (280TH STREET WEST), 20.6 FEET WEST-SOUTHWEST OF A GUARD RAIL POST, 15.5 FEET EAST OF A FIELD ENTRANCE, 33.6 FEET NORTH OF A WITNESS POST.

Station Notes

STATION WILL BE DESTROYED FALL 2022 OR SPRING 2023 FOR SHOULDER AND DITCH WIDENING.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.519	0.016	280.270	0.005	2/1	2016	00000879
NGVD29	918.617	0.016	279.995	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.028 12B = -93.048 09 = -92.999 03 = -92.821

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_1-DM4299-3S-27OCT2022.jpg	S	Oct 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_1-DM4299-2-27OCT2022.jpg		Oct 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_1-DM4299-1-27OCT2022.jpg		Oct 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7409.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7409.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRVAL MNDT RM 2

NGS Name: GRVAL RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4298](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	6	112 N	19 W	443236.75	930843.10	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** GRVAL NO 2 1988

0.5 MILE EAST OF CASTLE ROCK, 0.35 MILE EAST OF THE JUNCTION OF COUNTY ROAD 86 AND A RAILROAD, 60.0 FEET SOUTH OF COUNTY ROAD 86, 51.0 FEET EAST OF A FIELD ENTRANCE, 37.2 FEET EAST OF STATION GRVAL MNDT.

Station Notes

THE DISK IS LEANING SOUTH.
THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.526	0.016	280.272	0.005	2/1	2011	00000676
NGVD29	919.457	0.016	280.251	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.031 12B = -93.051 09 = -92.999 03 = -92.825

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_2-DM4298-3S-08SEP2011.jpg	S	Sep 8, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_2-DM4298-2-18OCT2006.jpg		Oct 18, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_2-DM4298-1-08SEP2011.jpg		Sep 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7410.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7410.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRVAL MNDT RM 3

NGS Name: GRVAL RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7765](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	113 N	19 W	443237.54	930756.23	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	REFERENCE MARK DISK	MNDT

Description: (1988) **Stamping:** GRVAL NO 3 1988

1.15 MILES EAST OF CASTLE ROCK, 1.0 MILE EAST OF THE JUNCTION OF COUNTY ROAD 86 AND A RAILROAD, 41.5 FEET NORTH OF COUNTY ROAD 86, 6.5 FEET WEST OF AN ENTRANCE, 104.0 FEET WEST OF A POWER POLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.719	0.016	283.074	0.005	2/1	2011	00000676
NGVD29	928.650	0.016	283.053	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -93.192 12B = -93.208 09 = -93.159 03 = -92.989

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 37.54363	93 07 56.22669	548075.444	126238.419	167053.730	38477.547	254.672			2012	GPS2800	
NAD83 (2007)	44 32 37.54360	93 07 56.22729	548075.401	126238.416	167053.716	38477.546	254.696			2007	GPS2300	
NAD83 (1996)	44 32 37.54329	93 07 56.22696	548075.425	126238.385	167053.724	38477.537	254.745	C		2008	GPS2437	
NAD83 (1986)	44 32 37.53566	93 07 56.22536	548075.541	126237.612	167053.759	38477.301		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_3-DG7765-3N-18OCT2006.jpg	N	Oct 18, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_3-DG7765-2-18OCT2006.jpg		Oct 18, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_3-DG7765-1-18OCT2006.jpg		Oct 18, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7411.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7411.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GRVAL MNDT RM 3 RESET

NGS Name: GRVAL RM 3 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1129](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	113 N	19 W	443237.54	930756.23	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** GRVAL MNDT RM 3 RESET 2011

6.7 MILES SOUTH OF FARMINGTON, 6.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 19.30, THEN 0.25 MILE EAST ON COUNTY ROAD 86 (280TH STREET WEST), 41.5 FEET NORTH OF COUNTY ROAD 86, 104.0 FEET WEST OF A POWER POLE, 6.5 FEET WEST OF A FIELD ENTRANCE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.555	0.016	283.024	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.192 12B = -93.208 09 = -93.159 03 = -92.989

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_3_RESET-DQ1129-3N-30OCT2014.jpg	N	Oct 30, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_3_RESET-DQ1129-2-30OCT2014.jpg		Oct 30, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GRVAL_RM_3_RESET-DQ1129-1-30OCT2014.jpg		Oct 30, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94564.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94564.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: GWENYTH

NGS Name: GWENYTH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8570](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	36	27 N	23 W	444647.79	930700.12	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** GWENYTH 2015

IN EAGAN, 0.85 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 32 (CLIFF ROAD) IN EAGAN, AT TRUNK HIGHWAY 3 MILEPOINT 35.9, 72.9 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 3, 4.8 FEET EAST-SOUTHEAST OF A RIGHT-OF-WAY POST, 4.8 FEET EAST-SOUTHEAST OF A WITNESS POST.

Station Pair: RORY - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	933.630	0.016	284.571	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.879 12B = -90.876 09 = -90.817 03 = -90.626

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>			<u>Reference</u>	
NAD83 (2011)	44 46 47.78752	93 07 00.12401	551927.360	212358.008	168227.796	64726.850	256.864			2015	GPS3101
NAD83 (1996)	44 46 47.78750	93 07 00.12439	551927.332	212358.006	168227.787	64726.850	256.927	C		2015	HFARM2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GWENYTH-DP8570-3NW-21JUL2023.jpg	NW	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GWENYTH-DP8570-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/GWENYTH-DP8570-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103190.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103190.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: H 117
County: DAKOTA, MN (Sheet 1)

NGS Name: H 117

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	29	114 N	19 W	443852.81	930659.70	2	3

NGS ACRN: PP0823	Get Map
NGS Quad / Sta Num : 44093121/	
USGS Quad: COATES	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2022	GOOD	Horz=NO Vert=NO	YES		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2014) **Stamping:** H 117 1934

1.0 MILE EAST-NORTHEAST OF FARMINGTON, 1.15 MILES EAST ALONG COUNTY ROAD 66 (VERMILLION RIVER TRAIL) FROM THE JUNCTION OF COUNTY ROAD 66 (VERMILLION RIVER TRAIL) AND TRUNK HIGHWAY 3 IN FARMINGTON, THEN 0.6 MILE SOUTH ON BISCAYNE AVENUE WEST, 87.5 FEET WEST-NORTHWEST OF A POWER POLE, 57.5 FEET WEST OF BISCAYNE AVENUE WEST, 36.5 FEET WEST OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	888.814	0.016	270.911	0.005	2/1	2016	00000879
NGVD29	888.761	0.016	270.895	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.641 12B = -92.641 09 = -92.582 03 = -92.372

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/H_117-PP0823-3W-04NOV2014.jpg	W	Nov 4, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/H_117-PP0823-2-04NOV2014.jpg		Nov 4, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/H_117-PP0823-1-04NOV2014.jpg		Nov 4, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7412.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7412.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAG MN037

NGS Name: HAG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5065](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	115 N	20 W	444534.04	931108.77	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 21 FT)	SURVEY DISK	MN-037

Description: (2014) **Stamping:** HAG

IN APPLE VALLEY, 0.5 MILE WEST ALONG COUNTY ROAD 40 (140TH STREET WEST) FROM THE JUNCTION OF COUNTY ROAD 40 AND COUNTY ROAD 31 (PILOT KNOB ROAD), THEN 0.9 MILE NORTH ON JOHNNY CAKE RIDGE ROAD, THEN EAST TO THE NORTHEAST CORNER OF THE HAGEMASTER PARK PARKING LOT, NEAR A BALL FIELD, 260.0 FEET EAST OF NORTHBOUND JOHNNY CAKE RIDGE ROAD, 92.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A PARK BUILDING, 71.0 FEET NORTHEAST OF A LIGHT POLE, 19.5 FEET NORTH OF THE NORTHERLY EDGE OF A SIDEWALK, UNSTAMPED YEAR.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1008.344	0.016	307.344	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.361 12B = -90.364 09 = -90.298 03 = -90.092

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 34.03696	93 11 08.76670	534003.855	204852.200	162764.700	62439.076	279.806			2012	GPS2800	
NAD83 (2007)	44 45 34.03707	93 11 08.76748	534003.798	204852.211	162764.683	62439.079	279.824			2007	GPS2300	
NAD83 (1996)	44 45 34.03672	93 11 08.76685	534003.844	204852.176	162764.697	62439.068	279.876	C		2000	GPS1517	
NAD83 (1986)	44 45 34.02996	93 11 08.76550	534003.942	204851.490	162764.727	62438.859		C		1992	H1992	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAG-AC5065-3W-13JUL2023.jpg	W	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAG-AC5065-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAG-AC5065-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7413.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7413.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMLIN

NGS Name: HAMLIN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8571](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	19	27 N	22 W	444845.72	930513.61	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	DESTROYED	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 45 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** HAMLIN 2015

IN INVER GROVE HEIGHTS, 1.65 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 3 MILEPOINT 39.0, 60.3 FEET NORTH OF TRUNK HIGHWAY 3, 56.2 FEET SOUTHWEST OF COUNTY ROAD 71, 23.0 FEET WEST OF CABLE BOX, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	847.328	0.016	258.266	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.863 12B = -90.859 09 = -90.797 03 = -90.610

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 48 45.72041	93 05 13.60625	559577.197	224322.409	170559.471	68373.607	230.564			2015	GPS3101	
NAD83 (1996)	44 48 45.72038	93 05 13.60663	559577.170	224322.406	170559.462	68373.606	230.627	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMLIN-DP8571-3N-21JUL2023.jpg	N	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMLIN-DP8571-2-02APR2015.jpg		Apr 2, 2015
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMLIN-DP8571-1-02APR2015.jpg		Apr 2, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103191.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103191.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP MNDT
County: DAKOTA, MN (Sheet 1)

NGS Name: HAMP

NGS ACRN: [AI7521](#) [Get Map](#)
NGS Quad / Sta Num : 44092433/
USGS Quad: CANNON FALLS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	16	113 N	18 W	443538.06	925922.13		C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IMBED IN MON

Monument Type	Disk Type	Mon. Agency
UNKNOWN	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** HAMP 1988

1.25 MILES SOUTH-SOUTHEAST OF HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 105.1, 0.55 MILE SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50, 109.0 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52, 43.7 FEET SOUTHEAST OF A FENCE CORNER, 108.5 FEET SOUTH-SOUTHEAST OF A POWER POLE, 23.8 FEET SOUTHWEST OF HAMP RM 1, 3.6 FEET SOUTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.780 12B = -94.770 09 = -94.721 03 = -94.567

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	44 35 38.06370	92 59 22.12832	585236.693	144637.524	178380.501	44085.606	283.134		2012	GPS2800
NAD83 (2007)	44 35 38.06380	92 59 22.12901	585236.643	144637.534	178380.486	44085.609	283.158		2007	GPS2300
NAD83 (1996)	44 35 38.06363	92 59 22.12902	585236.642	144637.517	178380.485	44085.603	283.210	C	2004	GPS2041
NAD83 (1986)	44 35 38.05597	92 59 22.12457	585236.966	144636.742	178380.584	44085.367		C	1989	HCANN

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP-AI7521-3S-04JUN2008.jpg	S	Jun 4, 2008
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP-AI7521-2-04JUN2008.jpg		Jun 4, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP-AI7521-1-14AUG2011.jpg		Aug 14, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7414.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7414.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP MNDT RESET

NGS Name: HAMP RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0998](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	113 N	18 W	443538.06	925922.13	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** HAMP 1988 2014

1.25 MILES SOUTH-SOUTHEAST OF HAMPTON, 0.55 MILE SOUTHEAST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAYS 52 AND 50 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 105.15, 109.0 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52, 43.7 FEET SOUTHEAST OF A FENCE CORNER, 23.8 FEET SOUTHWEST OF HAMP RM 1 RESET, 42.2 FEET SOUTHEAST OF HAMP RM 2 RESET, 1.0 FOOT NORTHEAST OF A WITNESS POST.

Station Pair: BRENDEN - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1023.515	0.016	311.968	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.780 12B = -94.770 09 = -94.721 03 = -94.567

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 35 38.06368	92 59 22.12831	585236.693	144637.522	178380.501	44085.605	283.072			2016	GPS3146	
NAD83 (1996)	44 35 38.06356	92 59 22.12876	585236.661	144637.510	178380.491	44085.601	283.140	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RESET-DQ0998-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RESET-DQ0998-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RESET-DQ0998-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102796.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102796.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP MNDT RM 3

NGS Name: HAMP RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AB9792](#) [Get Map](#)
NGS Quad / Sta Num : 44092433/
USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	113 N	18 W	443621.74	925942.74		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** HAMP NO 3 1988

0.5 MILE SOUTH-SOUTHEAST OF HAMPTON, 0.35 MILE NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50, 73.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 57.4 FEET NORTHWEST OF MILEPOST 106, 64.2 FEET SOUTH-SOUTHWEST OF A POWER POLE, 0.8 FOOT EAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.603 12B = -94.600 09 = -94.540 03 = -94.383

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 21.73682	92 59 42.73787	583727.830	149054.594	177920.598	45431.931	279.279			2012	GPS2800	
NAD83 (2007)	44 36 21.73694	92 59 42.73857	583727.779	149054.606	177920.583	45431.935	279.304			2007	GPS2300	
NAD83 (1996)	44 36 21.73667	92 59 42.73898	583727.750	149054.579	177920.574	45431.926	279.321	C		2014	HDAKR	
NAD83 (1986)	44 36 21.72813	92 59 42.73312	583728.176	149053.714	177920.704	45431.663		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_3-AB9792-3W-17AUG2011.jpg	W	Aug 17, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_3-AB9792-2-17AUG2011.jpg		Aug 17, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_3-AB9792-1-17AUG2011.jpg		Aug 17, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7415.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7415.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP MNDT RM 3 RESET

NGS Name: HAMP RM 3 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0989](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	8	113 N	18 W	443621.74	925942.74	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** HAMP NO 3 1988 2014

IN HAMPTON, 0.35 MILE NORTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50 IN HAMPTON, 73.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 57.4 FEET NORTHWEST OF MILEPOST 106, 64.2 FEET SOUTH-SOUTHWEST OF A POWER POLE, 0.8 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1010.710	0.016	308.065	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.603 12B = -94.600 09 = -94.540 03 = -94.383

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_3_RESET-DQ0989-3W-20OCT2022.jpg	W	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_3_RESET-DQ0989-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_3_RESET-DQ0989-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102797.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102797.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP RM 1

NGS Name: HAMP RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	16	113 N	18 W	443538.22	925921.88		3	1988	2014	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** HAMP NO 1 1988

1.25 MILES SOUTH-SOUTHEAST OF HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 105.1, 80.0 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52, 51.0 FEET EAST OF A FENCE CORNER, 1.0 FOOT NORTHEAST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.780 12B = -94.773 09 = -94.721 03 = -94.567

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_1-3SW-27JUL2011.jpg	SW	Jul 27, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_1-2-27JUL2011.jpg		Jul 27, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_1-1-03AUG2011.jpg		Aug 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64162.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64162.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP RM 1 RESET

NGS Name: HAMP RM 1 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0997](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	16	113 N	18 W	443538.22	925921.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** HAMP NO 1 1988 2014

1.25 MILES SOUTH-SOUTHEAST OF HAMPTON, 0.55 MILE SOUTHEAST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAYS 52 AND 50 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 105.15, 80.0 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52, 51.0 FEET EAST OF A FENCE CORNER, 49.2 FEET EAST OF HAMP RM 2 RESET, 23.8 FEET NORTHEAST OF HAMP MNDT RESET, 1.0 FOOT NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1017.229	0.016	310.052	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.780 12B = -94.773 09 = -94.721 03 = -94.567

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_1_RESET-DQ0997-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_1_RESET-DQ0997-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_1_RESET-DQ0997-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102800.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102800.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP RM 2

NGS Name: HAMP RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	16	113 N	18 W	443538.38	925922.52			1988	2011	DESTROYED	Horz=NO Vert=NO	YES			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	REFERENCE MARK DISK	MNDT

Description: (2006) **Stamping:** HAMP NO 2 1988

1.25 MILES SOUTH-SOUTHEAST OF HAMPTON, 110.0 FEET SOUTH-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52, 2.0 FEET EAST OF A FENCE CORNER, 2.0 FEET EAST OF A WITNESS POST.

Station Notes

HAMP RM 2 IS DAMAGED AND LEANING BADLY TO THE NORTH.
 THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.777 12B = -94.770 09 = -94.718 03 = -94.563

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_2-3W-08NOV2006.jpg	W	Nov 8, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_2-2-08NOV2006.jpg		Nov 8, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_2-1-08NOV2006.jpg		Nov 8, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64163.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64163.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMP RM 2 RESET

NGS Name: HAMP RM 2 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0999](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	113 N	18 W	443538.37	925922.52	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** HAMP NO 2 1988 2014

1.25 MILES SOUTH-SOUTHEAST OF HAMPTON, 0.55 MILE SOUTHEAST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAYS 52 AND 50 IN HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 105.15, 110.0 FEET WEST-SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 52, 49.2 FEET WEST OF HAMP RM 1 RESET, 42.2 FEET NORTHWEST OF HAMP MNDT RESET, 10.0 FEET EAST OF A FENCE CORNER, 1.0 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1023.216	0.016	311.877	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.777 12B = -94.770 09 = -94.718 03 = -94.563

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_2_RESET-DQ0999-3W-30SEP2022.jpg	W	Sep 30, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_2_RESET-DQ0999-2-30SEP2022.jpg		Sep 30, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMP_RM_2_RESET-DQ0999-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102803.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102803.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMPTON

NGS Name: HAMPTON

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2455](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/1001
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	113 N	18 W	443637.54	925636.29		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1892	2011	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	NGS

Description: (1892)

Stamping:

8.0 MILES NORTH OF CANNON FALLS, 0.5 MILE WEST ALONG 230TH STREET EAST FROM THE JUNCTION OF 230TH STREET EAST AND HOGAN AVENUE.

Station Notes

IN THE IMMEDIATE VICINITY OF STATION HAMPTON 2. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.328 12B = -95.311 09 = -95.259 03 = -95.108

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 36 37. 53598	92 56 36. 29304	597209. 678	150712. 197	182029. 874	45937. 169	288. 062	2	1999	17648
NAD83 (1986)	44 36 37. 52790	92 56 36. 29286	597209. 694	150711. 378	182029. 879	45936. 920		2	1986	17289
NAD27	44 36 37. 65300	92 56 35. 53900						2	1933	01237

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7416.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7416.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMPTON 2

NGS Name: HAMPTON 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2457](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/1001
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	11	113 N	18 W	443637.94	925636.51		1

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2011	GOOD	Horz=YES Vert=YES	YES		PROJECTS 3 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: (2011) **Stamping:** HAMPTON 1931

2.5 MILES EAST OF HAMPTON, 2.0 MILES EAST ON TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52 (SOUTH OF HAMPTON) THEN 1.0 MILE NORTH ON COUNTY ROAD 85 (GOODWIN AVENUE) THEN 0.5 MILE EAST ON 230TH STREET EAST TO A FIELD ENTRANCE, 1878.0 FEET SOUTH OF CENTERLINE OF 230TH STREET EAST, 48.0 FEET NORTH OF HIGHEST POINT OF A KNOLL, 10.0 FEET WEST OF A ROCK PILE, 21.5 FEET WEST OF A LONE ROCK, 0.25 MILE WEST OF HAMPTON 2 RM 1

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.325 12B = -95.308 09 = -95.256 03 = -95.108

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 36 37.94396	92 56 36.51022	597193.777	150753.443	182025.027	45949.741	288.063	1	1999	17648
NAD83 (1986)	44 36 37.93598	92 56 36.50829	597193.920	150752.635	182025.071	45949.495		1	1986	17289
NAD27	44 36 38.05800	92 56 35.76400						1	1933	01323

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMPTON_2-PP2457-3S-10AUG2011.jpg	S	Aug 10, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMPTON_2-PP2457-2-10AUG2011.jpg		Aug 10, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMPTON_2-PP2457-1-10AUG2011.jpg		Aug 10, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7417.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7417.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMPTON 2 RM 1

NGS Name: HAMPTON 2 RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ3546](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	113 N	18 W	443637.00	925636.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2011	NOT FOUND	Horz=YES Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2007) **Stamping:** HAMPTON NO 1 1931

IT IS 48.0 FEET NORTH OF THE HIGHEST POINT OF THE KNOLL AND A LONE TREE, 10.0 FEET WEST OF THE NORTH EDGE OF A ROCK PILE, AND 1.5 FEET NORTH OF A LONE ROCK.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.328 12B = -95.311 09 = -95.259 03 = -95.111

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66895.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66895.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMPTON 2 RM 2

NGS Name: HAMPTON 2 RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ3547](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	11	113 N	18 W	443639.72	925643.05		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2011	NOT FOUND	Horz=YES Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (2007) **Stamping:** HAMPTON NO 2 1931

IT IS 60.0 FEET NORTHWEST OF THE HIGHEST POINT OF A HILL, 35.0 FEET WEST OF THE WEST EDGE OF A CULTIVATED FIELD, AND 30.0 FEET SOUTHEAST OF THE SOUTHEAST EDGE OF A GROVE OF TREES.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.226 12B = -95.210 09 = -95.157 03 = -95.006

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66896.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66896.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMPTON MUNICIPAL TANK

NGS Name: HAMPTON MUNICIPAL TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2456](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/1010
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	113 N	18 W	443637.65	925950.02		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2022	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	NGS

Description: (2011)

Stamping:

0.15 MILE EAST OF THE BUSINESS CENTER IN HAMPTON, 90.0 FEET SOUTHWEST OF THE JUNCTION OF LINCOLN STREET AND BELMONT STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.537 12B = -94.534 09 = -94.475 03 = -94.317

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 36 37.65046	92 59 50.02467	583194.311	150664.181	177757.982	45922.534	4	1999	17648			
NAD83 (1986)	44 36 37.64239	92 59 50.02179	583194.523	150663.364	177758.046	45922.285	4	1986	17289			
NAD27	44 36 37.76400	92 59 49.25500					4	1933	01323			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMPTON_MUNICIPAL_TANK-PP2456-3E-19OCT2022.jpg	E	Oct 19, 2022
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7418.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7418.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAMPTON RM 1

NGS Name: HAMPTON RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN:

[Get Map](#)

NGS Quad / Sta Num : 44092433/1001

USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=YES Vert=YES	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	11	113 N	18 W	443637.11	925610.95		3	1931	2011	GOOD		YES		PROJECTS 5 IN.	STEEL SPIKE ADJ TO MON
						<u>Disk Type</u>		<u>Monument Type</u>		<u>Mon. Agency</u>					
						REFERENCE MARK DISK		CONCRETE MONUMENT (CAST-IN-PLACE)		NGS					

Description: (2011)

Stamping: HAMPTON NO 1 1931

3.25 MILES EAST OF HAMPTON, 0.25 MILE EAST OF STATION HAMPTON 2, 3.0 MILES EAST ON TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 52, THEN NORTH ON THE HOGAN AVENUE 0.5 MILE, 589.0 FEET WEST OF HOGAN AVENUE CENTERLINE, 60.0 FEET SOUTH OF A FENCE CORNER, 21.7 FEET WEST OF A WITNESS POST, 3.0 FEET WEST OF A NORTH-SOUTH FENCE LINE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.430 12B = -95.413 09 = -95.357 03 = -95.213

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 36 37.09959	92 56 10.94772	599043.464	150676.483	182588.813	45926.284				1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMPTON_RM_1-3E-04AUG2011.jpg	E	Aug 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMPTON_RM_1-2-04AUG2011.jpg		Aug 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAMPTON_RM_1-1-04AUG2011.jpg		Aug 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7419.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7419.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAST MN037 RM 1

NGS Name: HAST RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3479](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	115 N	17 W	444306.00	925039.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2015	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	REFERENCE MARK DISK	MNDT

Description: (2003) **Stamping:** HAST NO 1 1988

THE WATER TANK HAS BEEN REMOVED. 10-13-2003, THE TIES FALL IN AN OPEN AREA.
 IN THE SOUTHEAST PART OF HASTINGS, 0.1 MILE SOUTHEAST ON TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 THEN 0.15 MILE EAST ON SPIRAL BOULEVARD TO CITY WATER TOWER, 120.1 FEET SOUTHEAST OF EASTBOUND SPIRAL BOULEVARD, 1.9 FEET NORTHEAST OF A FENCE.

Station Notes

THE WATER TANK HAS BEEN REMOVED. 10-13-2003.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	835.536	0.016	254.672	0.005	2/1	1995	00000136
NGVD29	835.363	0.016	254.619	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.784 12B = -95.774 09 = -95.735 03 = -95.561

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7421.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7421.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAST MN037 RM 2

NGS Name: HAST RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3477](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	115 N	17 W	444306.00	925040.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2015	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	REFERENCE MARK DISK	MNDT

Description: (2003) **Stamping:** HAST NO 2 1988

THE WATER TANK HAS BEEN REMOVED. 10-13-2003, THE TIES FALL IN AN OPEN AREA.
 IN THE SOUTHEAST PART OF HASTINGS, 0.1 MILE SOUTHEAST ON TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 THEN EAST 0.15 MILE ON SPIRAL BOULEVARD TO THE CITY WATER TOWER, 79.2 FEET SOUTHEAST OF EASTBOUND SPIRAL BOULEVARD, 1.5 FEET NORTHEAST OF THE NORTHEAST CORNER OF A FENCE AROUND A WATER TOWER.

Station Notes

THE WATER TANK HAS BEEN REMOVED. 10-13-2003, THE TIES FALL IN AN OPEN AREA.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	835.494	0.016	254.659	0.005	2/1	1995	00000136
NGVD29	835.320	0.016	254.606	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.777 12B = -95.768 09 = -95.731 03 = -95.554

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7422.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7422.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAST MNDT

NGS Name: HAST

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3478](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	115 N	17 W	444306.82	925041.02	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** HAST 1988

IN THE SOUTHEAST PART OF HASTINGS, 0.2 MILE SOUTHEAST ON TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 THENCE EAST 0.15 MILE ON SPIRAL BOULEVARD, 71.0 FEET SOUTHEAST OF EASTBOUND SPIRAL BOULEVARD, 96.4 FEET SOUTHWEST OF A LIGHT POLE, 94.8 FEET NORTHEAST OF THE NORTHEAST CORNER OF WELL HOUSE NUMBER 6, 19.3 FEET NORTHEAST OF HAST MN037 RM 2, 1.5 NORTH OF A WITNESS POST.

Station Notes
THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	836.750	0.016	255.042	0.005	2/1	2013	00000776
NGVD29	836.553	0.016	254.982	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.771 12B = -95.761 09 = -95.722 03 = -95.548

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 06.81737	92 50 41.02041	622682.918	190270.212	189794.133	57994.477	225.862					2012	GPS2800	
NAD83 (2007)	44 43 06.81753	92 50 41.02119	622682.862	190270.228	189794.116	57994.482	225.875					2007	GPS2300	
NAD83 (1996)	44 43 06.81726	92 50 41.02073	622682.895	190270.201	189794.126	57994.473	225.936	C				2000	GPS1517	
NAD83 (1986)	44 43 06.80805	92 50 41.01882	622683.039	190269.268	189794.170	57994.189		C				1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAST-PP3478-3S-02FEB2010.jpg	S	Feb 2, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAST-PP3478-2-02FEB2010.jpg		Feb 2, 2010
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAST-PP3478-1-13NOV2003.jpg		Nov 13, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7420.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7420.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HAST MNDT RESET

NGS Name: HAST RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1085](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	115 N	17 W	444306.82	925041.02	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** HAST MNDT RESET 2011

IN HASTINGS, 0.2 MILE SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 THENCE EAST 0.15 MILE ON SPIRAL BOULEVARD TOWARDS A WATER TOWER, 71.0 FEET SOUTH SPIRAL BOULEVARD, 96.4 FEET SOUTHWEST OF A LIGHT POLE, 94.8 FEET NORTHEAST OF THE NORTHEAST CORNER OF WELL HOUSE NUMBER 6, 51.5 FEET NORTH OF HAST MN037 RM 1, 1.5 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	836.425	0.016	254.943	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.771 12B = -95.761 09 = -95.722 03 = -95.548

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAST_RESET-DQ1085-3S-27SEP2022.jpg	S	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAST_RESET-DQ1085-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HAST_RESET-DQ1085-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94557.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94557.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HASTINGS

NGS Name: HASTINGS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1116](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	115 N	17 W	444409.80	925110.40	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)	SURVEY DISK	MNDT

Description: (2015) **Stamping:** HASTINGS 2015

IN HASTINGS, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 117.0, THEN 0.1 MILE WEST ON 10TH STREET, THEN 500.0 FEET SOUTH IN PARKING LOT FOR THE FOOTBALL FIELD, THEN WALK ACROSS THE FOOTBALL FIELD, ABOUT 150.0 FEET WEST OF TRUNK HIGHWAY 61, ABOUT 150.0 FEET SOUTH OF 10TH STREET, ABOUT 300.0 FEET NORTH OF TRUNK HIGHWAY 55, 33.5 FEET WEST OF A ROCK RETAINING WALL, 13.8 FEET NORTHEAST OF A FENCE, 15.8 FEET NORTHWEST OF A CABLE BOX, 7.9 FEET SOUTHEAST OF A STONE BLOCK PILLAR, STATION HASTINGS IS EAST OF A FOOTBALL FIELD, NO WITNESS POST.

Station Notes

THIS MARK IS NOT TO BE CONFUSED WITH PID: PP2451 (HASTINGS MRC), STAMPED: 44 42 50 92 52 09 825. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	768.745	0.016	234.314	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.397 12B = -95.390 09 = -95.364 03 = -95.170

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HASTINGS-DQ1116-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HASTINGS-DQ1116-2-20JUL2015.jpg		Jul 20, 2015
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HASTINGS-DQ1116-1-20JUL2015.jpg		Jul 20, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104087.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104087.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HASTINGS INSANE ASYLUM TANK

NGS Name: HASTINGS INSANE ASYLUM TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2449](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/1011
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	115 N	17 W	444334.20	925011.94		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	TANK	NGS

Description: (1931)

Stamping:

IN HASTINGS, 0.5 MILE SOUTHEAST FROM THE JUNCTION OF 18TH STREET EAST AND 21ST STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.820 12B = -95.810 09 = -95.768 03 = -95.587

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 43 34.20277	92 50 11.94008	624766.429	193055.979	190429.188	58843.580		4	1999	17648
NAD83 (1986)	44 43 34.19372	92 50 11.93779	624766.600	193055.063	190429.241	58843.301		4	1986	17289
NAD27	44 43 34.31300	92 50 11.20200						4	1933	01323

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7424.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7424.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HASTINGS MRC

NGS Name: HASTINGS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2451](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/1066
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	114 N	17 W	444250.05	925208.91	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1895	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	MARK IS STEEL PIPE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (2008) **Stamping:** 44 42 50 92 52 09 825.

IN THE SOUTHWEST CORNER OF HASTINGS, 1.0 MILE WEST ALONG COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND TRUNK HIGHWAY 61 THEN 0.3 MILE SOUTH ON RIVERWOOD DRIVE, AT THE SOUTH EDGE OF RIVER WOOD PARK, ON AN OLD, ABANDONED RAILROAD BED, 150.0 FEET WEST OF RIVERWOOD DRIVE, 100.0 FEET WEST OF SOUTHWEST CORNER OF A BITUMINOUS BASKETBALL COURT, 15.0 FEET SOUTH OF THE NORTH EDGE OF THE WOODS, 6.0 FEET EAST OF 18.0 INCH DIAMETER ASH TREE, 4.0 FEET SOUTH OF A WITNESS POST. STATION HASTINGS MRC IS NOT TO BE CONFUSED WITH STATION: HASTINGS - STAMPED HASTINGS 2015.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	825.717	0.016	251.679	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.407 12B = -95.394 09 = -95.357 03 = -95.187

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 42 50.05282	92 52 08.90818	616345.960	188536.529	187862.624	57466.049	222.566	3	2020	GPSBM		
NAD83 (1996)	44 42 50.05290	92 52 08.91004	616345.825	188536.536	187862.583	57466.051	222.230	3	1999	17648		
NAD83 (1986)	44 42 50.04400	92 52 08.90696	616346.053	188535.636	187862.653	57465.777		3	1986	17289		
NAD27	44 42 50.16600	92 52 08.16800						3	1933	01236		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HASTINGS-PP2451-3S-28SEP2022.jpg	S	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HASTINGS-PP2451-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HASTINGS-PP2451-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7425.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7425.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HASTINGS MUN TANK

NGS Name: HASTINGS MUN TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2458](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/1067
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	115 N	17 W	444325.98	925240.44		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	TANK	NGS

Description: (1972)

Stamping:

1.7 MILES WEST OF HASTINGS, 250.0 FEET WEST ALONG 23RD STREET WEST FROM THE JUNCTION OF 23RD STREET WEST AND WESTVIEW DRIVE.

Station Notes

THE WATER TANK WAS GONE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.098 12B = -95.095 09 = -95.072 03 = -94.878

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 43 25.97963	92 52 40.43899	614049.360	192162.681	187162.619	58571.302		4	1999	17648		
NAD83 (1986)	44 43 25.97074	92 52 40.43549	614049.618	192161.782	187162.698	58571.028		4	1986	17289		
NAD27	44 43 26.09544	92 52 39.69590						4	1973	14889		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7426.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7426.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HASTINGS SE WATER TANK

NGS Name: HASTINGS SE WATER TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2453](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	115 N	17 W	444305.82	925041.24		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	MNDT

Description: (1975) **Stamping:**
 IN THE SOUTH PART OF HASTINGS, 0.15 MILE EAST OF TRUNK HIGHWAY 316, ON SPIRAL STREET.

Station Notes
 THE WATER TANK WAS GONE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.774 12B = -95.764 09 = -95.725 03 = -95.551

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 43 05.82111	92 50 41.24379	622667.373	190169.221	189789.395	57963.695		4	1999	17648		
NAD83 (1986)	44 43 05.81200	92 50 41.24014	622667.642	190168.300	189789.477	57963.414		4	1986	17289		
NAD27	44 43 05.93082	92 50 40.50767						4	1981	15750		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7427.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7427.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HASTINGS STATE HOSPITAL TANK

NGS Name: HASTINGS STATE HOSPITAL TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2452](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	34	115 N	17 W	444335.40	925011.91		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2022	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	MNDT

Description: (2007)

Stamping:

IN THE EAST PART OF HASTINGS, ON THE STATE HOSPITAL GROUNDS, CENTER OF CAP ON TOP OF THE TANK, 0.6 MILE EAST ALONG TRUNK HIGHWAY 391 FROM THE JUNCTION OF TRUNK HIGHWAY 391 AND TRUNK HIGHWAY 61 IN HASTINGS, TO THE MINNESOTA VETERANS HOME.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.817 12B = -95.807 09 = -95.764 03 = -95.581

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 43 35.39599	92 50 11.90565	624768.203	193176.838	190429.729	58880.418		4	1999	17648
NAD83 (1986)	44 43 35.38694	92 50 11.90247	624768.437	193175.923	190429.801	58880.139		4	1986	17289
NAD27	44 43 35.50537	92 50 11.17087						4	1981	15750

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HASTINGS_STATE_HOSPITAL_TANK-PP2452-3S-15NOV2006.jpg	S	Nov 15, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7428.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7428.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HASTINGS WEST WATER TANK

NGS Name: HASTINGS WEST WATER TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	32	115 N	17 W	444325.96	925240.43		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SURVEY DISK	MNDT

Description: (1989)

Stamping:

IN THE WEST PART OF HASTINGS, 100.0 FEET SOUTH OF WEST 23RD STREET, 300.0 FEET WEST OF THE WESTVIEW DRIVE.

Station Notes

THE WATER TANK IS GONE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.098 12B = -95.095 09 = -95.072 03 = -94.878

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 25.96871	92 52 40.43015	614050.005	192161.578	187162.816	58570.966					1991	H1991

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7429.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7429.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HENRY

NGS Name: HENRY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DP8572	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

1/4	Sec	Twp	Rng	Reference	Reference	Vert	Horz
				Latitude	Longitude	Order	Order
NE	18	27 N	22 W	444953.16	930514.52	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** HENRY 2015

IN INVER GROVE HEIGHTS, 0.15 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 55 IN INVER GROVE HEIGHTS, AT TRUNK HIGHWAY 3 MILEPOINT 40.5, 111.9 FEET WEST OF TRUNK HIGHWAY 3, 93.7 FEET NORTH OF COURTHOUSE BOULEVARD, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: 207 ROBERT RESET - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	853.584	0.016	260.173	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.669 12B = -90.676 09 = -90.607 03 = -90.423

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions			County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude		X	Y	X	Y			Year	Reference
NAD83 (2011)	44 49 53.15516	93 05 14.52449		559491.767	231151.989	170533.432	70455.267	232.539		2015	GPS3101
NAD83 (1996)	44 49 53.15513	93 05 14.52486		559491.740	231151.986	170533.424	70455.266	232.600	C	2015	HFARM2

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HENRY-DP8572-3E-01AUG2023.jpg	E	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HENRY-DP8572-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HENRY-DP8572-1-01APR2015.jpg		Apr 1, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103192.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103192.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HIGGINS MN037

NGS Name: HIGGINS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>					
SE	17	114 N	20 W	444026.87	931433.32		3					
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>					
1988	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET					

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** HIGGINS

IN LAKEVILLE, 1.25 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 50 (COUNTY ROAD 64) AND HOLYOKE AVENUE THEN 400.0 FEET WEST ON 190TH STREET, 17.0 FEET NORTH OF 190TH STREET, 57.0 FEET SOUTHEAST OF A POWER POLE, 30.0 FEET EAST-SOUTHEAST OF A POWER POLE AND A WITNESS SIGN, 73.7 FEET WEST-SOUTHWEST OF A FLAGPOLE.

Station Notes

NEW SUBDIVISION BUILT BETWEEN 2102 AND 2015, TIES NOW FALL IN A DRIVING LANE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.686 12B = -90.692 09 = -90.633 03 = -90.416

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 40 26.86136	93 14 33.32436	519271.425	173723.508	158274.247	52951.031			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIGGINS-3N-02NOV2022.jpg	N	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIGGINS-2-21SEP2011.jpg		Sep 21, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIGGINS-1-21SEP2011.jpg		Sep 21, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7430.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7430.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HIN MNDT TEMP

NGS Name: HIN TEMP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP2616	Get Map
NGS Quad / Sta Num : 44093131/	
USGS Quad: ORCHARD LAKE	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	114 N	21 W	443908.65	931820.78		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
METAL ROD DRIVEN IN GROUND (<10 FT) (DEPTH 2 FT)	METAL ROD	MNDT

Description: (2011)

Stamping:

2.5 MILES WEST-NORTHWEST OF LAKEVILLE, 0.5 MILE WEST OF INTERSTATE HIGHWAY 35, 13.0 FEET NORTH OF COUNTY ROAD 64, 89.22 FEET NORTHEAST OF A SURVEY REFERENCE POINT (SRP) IN A TELEPHONE POLE, 100.27 FEET NORTHWEST OF A SURVEY REFERENCE POINT (SRP) IN A TELEPHONE POLE. IN A GRAVEL SHOULDER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.131 12B = -90.134 09 = -90.085 03 = -89.875

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 39 08.64587	93 18 20.77572	502835.619	165793.494	153264.603	50533.958	301.116	2	1999	17648
NAD83 (1986)	44 39 08.63825	93 18 20.77501	502835.671	165792.722	153264.619	50533.723		2	1986	17289
NAD27	44 39 08.77003	93 18 19.97391						2	1982	16778

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIN_TEMP-PP2616-3S-03NOV2022.jpg	S	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIN_TEMP-PP2616-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIN_TEMP-PP2616-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7431.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7431.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HIVIEW MN037

NGS Name: HIVIEW

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
SW	9	114 N	20 W	444129.94	931414.85		3				
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1988	2022	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET				

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** HIVIEW

IN LAKEVILLE, 500.0 FEET NORTH OF THE JUNCTION OF COUNTY ROAD 9 (DODD BOULEVARD) AND HIGHVIEW AVENUE, 73.0 FEET EAST OF HIGHVIEW AVENUE, 20.0 FEET SOUTHEAST OF A 4.0 INCH DIAMETER MAPLE TREE, 6.6 FEET NORTHWEST OF A PRESSURE BREAKER VACUUM GAS VALVE, 5.9 FEET SOUTH OF A 7.0 INCH DIAMETER BLUE SPRUCE, STATION HIVIEW MN037 IS ON THE TOP OF A RIDGE, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.561 12B = -90.564 09 = -90.502 03 = -90.292

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 41 29.93626	93 14 14.84734	520600.461	180112.822	158679.338	54898.498			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIVIEW-3E-02NOV2022.jpg	E	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIVIEW-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HIVIEW-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7432.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7432.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOGAN MN037

NGS Name: HOGAN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1000](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

	<u>Reference</u>		<u>Reference</u>	<u>Vert</u>	<u>Horz</u>		
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	25	113 N	18 W	443417.18	925602.73	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** HOGAN 1991

3.75 MILES NORTH-NORTHWEST OF CANNON FALLS, 2.25 MILES SOUTH OF NEW TRIER, IN HAMPTON TOWNSHIP, 2.2 MILES NORTH ALONG (HOGAN AVENUE) COUNTY ROAD 85 FROM THE JUNCTION OF COUNTY ROAD 85 AND COUNTY ROAD 86 (OLD TRUNK HIGHWAY 52), 26.0 FEET EAST OF COUNTY ROAD 85, 400.0 FEET SOUTH OF 260TH STREET, 8.0 FEET SOUTH OF A FIELD ENTRANCE, 52.5 FEET EAST OF A POWER POLE, 10.0 FEET WEST OF A WITNESS POST.

Station Notes

THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>	<u>Order/(Class)</u>	<u>Year</u>	<u>Reference</u>
NAVD88	978.659	0.016	298.296	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.715 12B = -95.702 09 = -95.643 03 = -95.508

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>						<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 34 17.17597	92 56 02.73368	599704.275	136508.521	182790.229	41607.881	269.121	3	2020	GPSBM				
NAD83 (1986)	44 34 17.16903	92 56 02.73114	599704.463	136507.818	182790.286	41607.666	C	1992	C019					

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOGAN-DQ1000-3E-06OCT2022.jpg	E	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOGAN-DQ1000-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOGAN-DQ1000-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7433.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7433.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOLIDAY MN037

NGS Name: HOLIDAY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7517](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	23	115 N	21 W	444452.17	931810.49		C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2023	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	BAR MAG IMBED IN MON

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-037

Description: (1999) Stamping: HOLIDAY

IN BURNSVILLE, 500.0 FEET NORTH OF THE JUNCTION OF COUNTY ROAD 42 AND COUNTY ROAD 5, 2.5 FEET EAST OF A SIDEWALK, 14.0 FEET SOUTHEAST OF A FIRE HYDRANT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.350 12B = -89.347 09 = -89.291 03 = -89.101

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)				County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 44 52.17297	93 18 10.49414	503573.025	200585.243	153489.365	61138.504	284.615			2012	GPS2800	
NAD83 (2007)	44 44 52.17302	93 18 10.49481	503572.976	200585.248	153489.350	61138.506	284.633			2007	GPS2300	
NAD83 (1996)	44 44 52.17266	93 18 10.49444	503573.003	200585.212	153489.358	61138.495	284.684	C		2000	GPS1517	
NAD83 (1986)	44 44 52.16609	93 18 10.49236	503573.153	200584.546	153489.404	61138.292		C		1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7434.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7434.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOLLAND MN037

NGS Name: HOLLAND

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5066](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	36	27 N	23 W	444721.48	930716.58	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	BAR MAG IMBED IN MON

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 6 FT)	SURVEY DISK	MN-037

Description: (2014) **Stamping:** HOLLAND 1988

IN EAGAN, 0.6 MILE WEST OF THE JUNCTION OF COUNTY ROAD 32 (CLIFF ROAD) AND TRUNK HIGHWAY 3, 300.0 FEET SOUTH OF COUNTY ROAD 32 (CLIFF ROAD) AT A FIELD APPROACH, 1.0 FOOT NORTH OF A STEEL SIGNPOST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	948.039	0.016	288.963	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.728 12B = -90.728 09 = -90.659 03 = -90.472

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 47 21.47950	93 07 16.58444	550731.822	215767.415	167863.395	65766.040	261.298			2012	GPS2800	
NAD83 (2007)	44 47 21.47961	93 07 16.58524	550731.764	215767.426	167863.378	65766.043	261.315			2007	GPS2300	
NAD83 (1996)	44 47 21.47935	93 07 16.58465	550731.807	215767.400	167863.390	65766.035	261.373		C	2000	GPS1517	
NAD83 (1986)	44 47 21.47184	93 07 16.58000	550732.143	215766.639	167863.493	65765.803			C	1991	H1991	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLAND-AC5066-3S-21JUL2023.jpg	S	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLAND-AC5066-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLAND-AC5066-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7435.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7435.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOLLOW MN037

NGS Name: HOLLOW

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4934](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	28 N	23 W	445438.60	930723.73	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2020	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	HORIZONTAL CONTROL DISK	MN-037

Description: (2006) **Stamping:** HOLLOW 1988

IN MENDOTA HEIGHTS, 0.9 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND TRUNK HIGHWAY 13, NEAR THE EAST END OF A TRUNK HIGHWAY 13 BRIDGE OVER HAPPY HOLLOW RAVINE, 40.0 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF A BRIDGE, 24.0 FEET NORTHWEST OF TRUNK HIGHWAY 13, 3.0 FEET SOUTHEAST OF A GUARDRAIL.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	815.878	0.016	248.680	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.875 12B = -89.872 09 = -89.793 03 = -89.629

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 54 38.58997	93 07 23.72427	550111.734	260036.895	167674.392	79259.404			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLOW-DO4934-3N-06OCT2011.jpg	N	Oct 6, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLOW-DO4934-2-06OCT2011.jpg		Oct 6, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLOW-DO4934-1-06OCT2011.jpg		Oct 6, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7436.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7436.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOLLOW MN037 RESET

NGS Name: HOLLOW RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DR6920](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	28 N	23 W	445438.60	930723.73		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2020	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2020) **Stamping:** HOLLOW 1988 2020

IN MENDOTA HEIGHTS, 0.9 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 EAST AND TRUNK HIGHWAY 13, AT TRUNK HIGHWAY 13 MILEPOINT 110.70, 23.5 FEET NORTHWEST OF TRUNK HIGHWAY 13, 38.8 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF BRIDGE, 3.8 FEET SOUTHEAST OF GUARDRAIL, 4.0 FEET SOUTHEAST OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.875 03 = -89.629

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 54 38.59926	93 07 23.72560	550111.637	260037.836	167674.362	79259.691	221.104			2021	GPS3438	
NAD83 (1996)	44 54 38.59899	93 07 23.72588	550111.617	260037.808	167674.356	79259.683	221.162		C	2021	HDODD2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLOW_RESET-DR6920-3NW-08AUG2023.jpg	NW	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLOW_RESET-DR6920-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLLOW_RESET-DR6920-1-01OCT2020.jpg		Oct 1, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_110393.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_110393.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOLYOKE

NGS Name: HOLYOKE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7028](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	29	112 N	20 W	442822.72	931429.89	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 34 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** HOLYOKE 2014

4.0 MILES NORTHWEST OF NORTHFIELD, 4.2 MILES WEST AND NORTH ALONG TRUNK HIGHWAY 19 (330TH STREET WEST) FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD TO TRUNK HIGHWAY 19 MILEPOINT 171.9, THEN 0.1 MILE NORTH ON HOLYOKE AVENUE, 31.4 FEET WEST OF HOLYOKE AVENUE, 33.3 FEET SOUTH OF A FIELD ENTRANCE, 5.0 FEET NORTH OF A WITNESS POST.

Station Pair: 6603 D - RICE, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1002.341	0.016	305.514	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -92.349 12B = -92.375 09 = -92.329 03 = -92.152

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 28 22.72432	93 14 29.88521	519587.533	100386.203	158370.597	30597.776	277.351	C	2016	GPS3152		
NAD83 (1996)	44 28 22.72419	93 14 29.88555	519587.508	100386.190	158370.589	30597.772	277.413	C	2016	HDAK2		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLYOKE-DP7028-3W-01NOV2022.jpg	W	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLYOKE-DP7028-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOLYOKE-DP7028-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102048.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102048.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HORNER

NGS Name: HORNER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0975](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	25	115 N	18 W	444359.45	925544.52	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** HORNER 2015

3.75 MILES WEST OF HASTINGS, 3.8 MILES WEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61 IN HASTINGS, TO TRUNK HIGHWAY 55 MILEPOINT 216.5, THEN 0.35 MILE SOUTH ALONG HORNER AVENUE, 24.0 FEET WEST OF HORNER AVENUE, 4.4 FEET EAST OF A TELEPHONE PEDESTAL, 0.1 MILE NORTH OF 150TH STREET EAST, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: AVENUE - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	879.414	0.016	268.046	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.019 12B = -94.035 09 = -93.993 03 = -93.796

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 59.44975	92 55 44.51890	600742.173	195484.995	183106.581	59583.946	239.390			2016	GPS3147	
NAD83 (1996)	44 43 59.44964	92 55 44.51931	600742.143	195484.983	183106.572	59583.942	239.453	C		2016	HMTES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HORNER-DQ0975-3W-22SEP2022.jpg	W	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HORNER-DQ0975-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HORNER-DQ0975-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103415.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103415.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HORSE MN037

NGS Name: HORSE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0983](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	114 N	18 W	444025.07	930053.29	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 11 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** HORSE 1991

3.25 MILES SOUTH-SOUTHEAST OF COATES, 2.5 MILES WEST OF VERMILLION, 265.0 FEET WEST ALONG COUNTY ROAD 62 FROM THE JUNCTION OF COUNTY ROAD 62 AND SOUTHBOUND TRUNK HIGHWAY 52, 22.0 FEET SOUTH OF COUNTY ROAD 62, 37.0 FEET EAST OF DONNELLY AVENUE, 29.0 FEET NORTH-NORTHEAST OF A POWER POLE, 22.0 FEET SOUTH OF 190TH STREET EAST, 10.0 FEET NORTH OF A FENCE, 8.7 FEET NORTH OF A WITNESS POST.

Station Pair: EMPIRE - DAKOTA, MN

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	903. 213	0. 016	275. 300	0. 005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.579 12B = -93.586 09 = -93.517 03 = -93.327

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 40 25. 07444	93 00 53. 28943	578532. 099	173679. 324	176336. 936	52937. 564	246. 777	C	2016	GPS3146		
NAD83 (1996)	44 40 25. 07431	93 00 53. 28986	578532. 067	173679. 310	176336. 927	52937. 560	246. 835	C	2016	HCOAT		
NAD83 (1986)	44 40 25. 06854	93 00 53. 28464	578532. 449	173678. 727	176337. 043	52937. 382		C	1992	C019		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HORSE-DQ0983-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HORSE-DQ0983-2-16AUG2011.jpg		Aug 16, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HORSE-DQ0983-1-16AUG2011.jpg		Aug 16, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7437.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HOSA MNDT

NGS Name: HOSA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AF9751](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	36	115 N	21 W	444312.30	931652.23	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** HOSA 1992

IN THE SOUTHWEST PART OF BURNSVILLE, 0.2 MILE EAST ALONG COUNTY ROAD 46 FROM THE JUNCTION OF COUNTY ROAD 46 AND INTERSTATE HIGHWAY 35 IN BURNSVILLE TO INTERSTATE HIGHWAY 35 MILEPOINT 87.1, THEN 0.45 MILE NORTH ALONG MAPLE ISLAND ROAD/KENRICK AVENUE, 211.0 FEET NORTH OF A TELEPHONE CABLE MARKER, 192.8 FEET NORTH-NORTHWEST OF A POWER POLE, 103.5 FEET EAST OF NORTHBOUND INTERSTATE HIGHWAY 35, 30.5 FEET WEST OF A FRONTAGE ROAD, 3.9 FEET EAST OF A RIGHT-OF-WAY FENCE, 3.8 FEET EAST OF A WITNESS POST.

Station Pair: PLANT - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1006.832	0.016	306.883	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.773 12B = -89.770 09 = -89.718 03 = -89.518

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 12.30037	93 16 52.22844	509226.164	190472.025	155212.445	58055.989	279.513			2022	GPS3553	
NAD83 (2007)	44 43 12.30044	93 16 52.22899	509226.124	190472.032	155212.433	58055.992	279.534			2007	GPS2300	
NAD83 (1996)	44 43 12.30002	93 16 52.22839	509226.167	190471.989	155212.446	58055.979	279.570		C	2022	HSPLIT	
NAD83 (1986)	44 43 12.29269	93 16 52.22630	509226.318	190471.246	155212.492	58055.752			C	1994	HI35S	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOSA-AF9751-3W-11JUL2023.jpg	W	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOSA-AF9751-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HOSA-AF9751-1-25JUL2022.jpg		Jul 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7438.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7438.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: HUCK

NGS Name: HUCK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1097](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	20	114 N	16 W	443934.13	924619.56	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 64 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** HUCK 2015

6.0 MILES SOUTHEAST OF HASTINGS, 5.7 MILES SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 316 MILEPOINT 4.25, 44.6 FEET NORTH-NORTHEAST OF A TRUNK HIGHWAY 316 FOG LINE, 0.1 MILE NORTH-NORTHWEST OF COUNTY ROAD 68, 1.5 FEET SOUTH-SOUTHWEST OF A WITNESS POST.

Station Pair: ROSIE - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	831.357	0.016	253.398	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -97.303 12B = -97.303 09 = -97.244 03 = -97.093

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 39 34.12866	92 46 19.55561	641707.017	168847.951	195592.690	51464.958	223.729			2016	GPS3147	
NAD83 (1996)	44 39 34.12857	92 46 19.55607	641706.984	168847.942	195592.680	51464.956	223.792	C		2016	HMTES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HUCK-DQ1097-3NE-27SEP2022.jpg	NE	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HUCK-DQ1097-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/HUCK-DQ1097-1-06MAY2015.jpg		May 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103416.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103416.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INVER GROVE HEIGHTS NW SPIPE

NGS Name: INVER GROVE HEIGHTS NW SPIPE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2533](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	28 N	22 W	445156.26	930421.69		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2015	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	STANDPIPE TANK	MNDT

Description: (1975)

Stamping:

IN THE NORTHWEST PART OF INVER GROVE HEIGHTS, 1000.0 FEET EAST OF COUNTY ROAD 75, THE STATION IS THE CENTER OF A CAP ON THE TOP OF A TANK, THE MONUMENT IS A WATER TANK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.515 12B = -90.521 09 = -90.476 03 = -90.269

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 51 56.26279	93 04 21.68542	563262.495	243631.415	171682.752	74259.004	4	1999	17648			
NAD83 (1986)	44 51 56.25464	93 04 21.68371	563262.621	243630.590	171682.790	74258.752	4	1986	17289			
NAD27	44 51 56.37792	93 04 20.91120					4	1981	15750			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/INVER_GROVE_HEIGHTS_NW_SPIPE-PP2533-3S-22NOV2006.jpg	S	Nov 22, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7439.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7439.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INVER GROVE HEIGHTS SE SPIRE

NGS Name: INVER GROVE HEIGHTS SE SPIRE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	10	27 N	22 W	445003.00	930219.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SURVEY DISK	MNDT

Description: (1975)

Stamping:

IN THE SOUTHEAST PART OF INVER GROVE HEIGHTS, 1000.0 FEET EAST OF COUNTY ROAD 75, ROUND WATER TANK 50.0 FOOT DIAMETER AND 75.0 FEET HIGH, BUILT IN 1965, THE STATION IS CENTER OF A CAP ON THE TOP OF A TANK.

Station Notes

THE WATER TANK WAS GONE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.187 12B = -91.191 09 = -91.138 03 = -90.951

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7440.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7440.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: INVER MN037

NGS Name: INVER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	17	27 N	22 W	444948.07	930408.93		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1997) **Stamping:** INVER 1988

IN INVER GROVE HEIGHTS, 2.2 MILES NORTH-NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 52/TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, 0.9 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 52/TRUNK HIGHWAY 55, 77.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 52, 31.0 FEET SOUTH OF AN ASSEMBLY OF A GOD CHURCH PARKING LOT, 13.0 FEET EAST OF A TELEPHONE CABLE PEDESTAL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.873 12B = -90.879 09 = -90.820 03 = -90.633

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 49 48.07436	93 04 08.93935	564220.017	230651.245	171974.605	70302.640			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7441.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7441.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: IPAVA MN037

NGS Name: IPAVA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7516](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	8	114 N	20 W	444203.22	931529.34		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** IPAVA 1988

IN LAKEVILLE, 0.9 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 46 AND IPAVA AVENUE, IN THE FRONT OF NORTH PARK, 34.0 FEET EAST OF IPAVA AVENUE, 1.8 FEET EAST OF A BITUMINOUS BIKE PATH, 130.0 FEET NORTH OF A SOUTH PARK ENTRANCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.203 12B = -90.207 09 = -90.147 03 = -89.947

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 42 03.21912	93 15 29.34127	515216.330	183479.079	157038.251	55924.535	304.138		2012	GPS2800
NAD83 (2007)	44 42 03.21926	93 15 29.34202	515216.276	183479.093	157038.235	55924.540	304.156		2007	GPS2300
NAD83 (1996)	44 42 03.21893	93 15 29.34180	515216.292	183479.060	157038.240	55924.529	304.205	C	2000	GPS1517
NAD83 (1986)	44 42 03.21163	93 15 29.34030	515216.401	183478.321	157038.273	55924.304		C	1989	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/IPAVA-AI7516-3E-02NOV2022.jpg	E	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/IPAVA-AI7516-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/IPAVA-AI7516-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7442.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7442.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: J 117

NGS Name: J 117

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0824](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	114 N	19 W	443917.00	930450.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1985) **Stamping:** J 117 1934

6.2 MILES EAST OF FARMINGTON, 0.3 MILE SOUTH ALONG AHERN BOULEVARD FROM THE JUNCTION OF AHERN BOULEVARD AND 200TH STREET WEST, IN FARMINGTON.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	882.400	0.016	268.956	0.005	2/0	1991	00000025
NGVD29	882.259	0.007	268.913	0.002	1	1958	L57 MINN

Geoid Separations(ft): GEOID18 = -93.012 12B = -93.008 09 = -92.949 03 = -92.749

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7443.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7443.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JACK

NGS Name: JACK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4935](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	13	28 N	23 W	445501.18	930647.25	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** JACK 2011

IN LILYDALE, 0.65 MILE WEST-SOUTHWEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 169 IN ST. PAUL, AT TRUNK HIGHWAY 13 MILEPOINT 111.35, 50.0 FEET NORTHEAST OF SUTCLIFF CIRCLE, 31.6 FEET NORTHWEST OF TRUNK HIGHWAY 13, 17.9 FEET WEST OF A POWER POLE, 6.6 FEET SOUTHEAST OF A CHAIN LINKED FENCE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	958.764	0.016	292.232	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.918 12B = -89.911 09 = -89.836 03 = -89.675

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 55 01.17991	93 06 47.24848	552731.214	262331.243	168472.811	79958.723	264.859			2021	GPS3438	
NAD83 (1996)	44 55 01.17965	93 06 47.24876	552731.194	262331.216	168472.805	79958.715	264.916	C		2021	HD0DD2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JACK-DO4935-3NW-08AUG2023.jpg	NW	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JACK-DO4935-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JACK-DO4935-1-08AUG2023.jpg		Aug 8, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95082.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95082.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JAGOE MNDT

NGS Name: JAGOE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1440](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/1094
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	28	28 N	22 W	445239.74	930241.68	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2006) **Stamping:** JAGOE 1963

IN SOUTH ST. PAUL, 0.4 MILE WEST ALONG INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 56, THEN EXIT ON FIFTH AVENUE SOUTH AND CONTINUE WEST ON A FRONTAGE ROAD TO SEVENTH AVENUE SOUTH, THEN NORTH 1.0 BLOCK ON SEVENTH AVENUE SOUTH, THEN WEST 2.0 BLOCKS ON NINTH STREET SOUTH, THEN NORTH 1.0 BLOCK ON NINTH AVENUE SOUTH, AT A POWER LINE CROSSING, 22.5 FEET EAST OF NINTH AVENUE SOUTH, 2.0 FEET EAST OF THE BACK OF A CURB, 61.7 FEET WEST OF THE FACE OF HIGH TENSION POLE NUMBER 35, 37.1 FEET NORTHWEST OF THE NORTHWEST CORNER OF HOUSE NUMBER 815, 22.4 FEET NORTH OF A DRIVEWAY, 44.85 FEET EAST OF JAGOE MNDT RM 1, 42.67 FEET NORTH OF JAGOE MNDT RM 2.

Station Notes
THE MARK IS DIRECTLY UNDER A HIGH VOLTAGE POWER LINE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.223	0.016	269.207	0.005	2/1	2020	00000955
NGVD29	883.063	0.016	269.158	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.722 12B = -90.731 09 = -90.666 03 = -90.479

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 52 39.73786	93 02 41.67994	570450.885	248057.403	173873.778	75608.048	241.560		2012	GPS2800
NAD83 (2007)	44 52 39.73771	93 02 41.68087	570450.818	248057.388	173873.757	75608.043	241.586	C	2010	HWSHN
NAD83 (1996)	44 52 39.73751	93 02 41.68035	570450.856	248057.368	173873.769	75608.037	241.648	C	2009	HINVR
NAD83 (1986)	44 52 39.72923	93 02 41.67563	570451.198	248056.530	173873.873	75607.782		2	1986	17289
NAD27	44 52 39.85088	93 02 40.89806						2	1965	13600

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE-PP1440-3E-09AUG2023.jpg	E	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE-PP1440-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE-PP1440-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7444.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7444.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JAGOE MNDT RM 1

NGS Name: JAGOE RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1439](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	28 N	22 W	445239.77	930242.30	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1963) **Stamping:** JAGOE NO 1 1963

IN SOUTH ST. PAUL, 0.4 MILE WEST ALONG INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 56, THEN EXIT ON FIFTH AVENUE SOUTH AND CONTINUE WEST ON FRONTAGE ROAD TO SEVENTH AVENUE SOUTH, THEN NORTH 1.0 BLOCK ON SEVENTH AVENUE SOUTH, THEN WEST 2.0 BLOCKS ON NINTH STREET SOUTH, THEN NORTH 1.0 BLOCK ON NINTH AVENUE SOUTH, AT A POWER LINE CROSSING, 22.2 FEET WEST OF NINTH AVENUE, 1.7 FEET WEST OF A CURB, 44.85 FEET WEST OF STATION JAGOE MNDT, 63.8 FEET NORTHWEST OF JAGOE MNDT RM 2, 72.4 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF HOUSE NUMBER 800, 49.8 FEET EAST-NORTHEAST OF THE NORTHEAST CORNER OF HOUSE NUMBER 814, 31.0 FEET NORTH OF THE NORTH EDGE OF A SIDEWALK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.227	0.016	269.208	0.005	2/1	2020	00000955
NGVD29	882.997	0.016	269.138	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.718 12B = -90.728 09 = -90.663 03 = -90.476

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE_RM_1-PP1439-3W-09AUG2023.jpg	W	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE_RM_1-PP1439-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE_RM_1-PP1439-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7445.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7445.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JAGOE MNDT RM 2

NGS Name: JAGOE RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1441](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	28 N	22 W	445239.32	930241.69	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1963) **Stamping:** JAGOE NO 2 1963

IN SOUTH ST. PAUL, 0.4 MILE WEST ALONG INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND TRUNK HIGHWAY 56, THEN EXIT ON FIFTH AVENUE SOUTH AND CONTINUE WEST ON FRONTAGE ROAD TO SEVENTH AVENUE SOUTH, THEN NORTH 1.0 BLOCK ON SEVENTH AVENUE SOUTH, THEN WEST 2.0 BLOCKS ON NINTH STREET SOUTH, THEN NORTH 1.0 BLOCK ON NINTH AVENUE SOUTH, AT A POWER LINE CROSSING, 22.0 FEET EAST OF NINTH AVENUE, 42.67 FEET SOUTH OF STATION JAGOE MNDT, 63.8 FEET SOUTHEAST OF JAGOE MNDT RM 1, 2.3 FEET NORTH OF A SIDEWALK EDGE, 19.5 FEET SOUTH OF A DRIVEWAY, 45.6 FEET NORTHWEST OF THE SOUTHWEST CORNER OF HOUSE NUMBER 815.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	881.606	0.016	268.714	0.005	2/1	2020	00000955
NGVD29	881.452	0.016	268.667	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.722 12B = -90.731 09 = -90.666 03 = -90.479

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE_RM_2-PP1441-3E-09AUG2023.jpg	E	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE_RM_2-PP1441-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JAGOE_RM_2-PP1441-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7446.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7446.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JEEP

NGS Name: JEEP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1083](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	3	114 N	17 W	444248.21	925110.54	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** JEEP 2015

IN HASTINGS, 0.50 MILE SOUTHWEST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 115.25, 71.1 FEET NORTHWEST OF TRUNK HIGHWAY 61, 50.0 FEET EAST OF CANNON STREET, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: DODGE - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	826.255	0.016	251.843	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.695 12B = -95.682 09 = -95.646 03 = -95.479

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 42 48.21015	92 51 10.53934	620562.118	188373.495	189147.712	57416.356	222.675			2016	GPS3147	
NAD83 (1996)	44 42 48.21006	92 51 10.53979	620562.086	188373.485	189147.702	57416.353	222.737	C		2016	HMTS	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JEEP-DQ1083-3NW-28SEP2022.jpg	NW	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JEEP-DQ1083-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JEEP-DQ1083-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103417.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103417.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JERRY

NGS Name: JERRY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1065](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	16	113 N	17 W	443532.40	925145.21	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** JERRY 2014

2.2 MILES WEST-SOUTHWEST OF MIESVILLE, 0.65 MILE SOUTHWEST ALONG TRUNK HIGHWAY 20 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 20 MILEPOINT 6.85, 48.9 FEET EAST-SOUTHEAST OF TRUNK HIGHWAY 20, 18.3 FEET SOUTH-SOUTHWEST OF A FIELD ENTRANCE, 1.5 FEET NORTH-NORTHEAST OF A WITNESS POST.

Station Pair: KLUTHE - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	935.349	0.016	285.095	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.542 12B = -96.532 09 = -96.466 03 = -96.329

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 35 32.39572	92 51 45.20536	618304.832	144222.124	188459.690	43958.991	255.679			2016	GPS3148	
NAD83 (1996)	44 35 32.39570	92 51 45.20584	618304.798	144222.122	188459.679	43958.991	255.736	C		2016	HTRIER	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JERRY-DQ1065-3SE-29SEP2022.jpg	SE	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JERRY-DQ1065-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JERRY-DQ1065-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102886.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102886.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JOE

NGS Name: JOE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8573](#) [Get Map](#)
NGS Quad / Sta Num : 44093124/
USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	32	115 N	19 W	444321.35	930753.72	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** JOE 2015

IN ROSEMOUNT, 0.7 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 31.75, 90.0 FEET WEST-SOUTHWEST OF TRUNK HIGHWAY 3, 1.5 FEET EAST-NORTHEAST OF A WITNESS POST.

Station Pair: PIGNATO - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	935.307	0.016	285.082	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.470 12B = -91.463 09 = -91.404 03 = -91.201

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 21.34647	93 07 53.71846	548108.918	191440.857	167063.932	58351.290	257.205	2015	C	2015	GPS3101	
NAD83 (1996)	44 43 21.34646	93 07 53.71883	548108.891	191440.856	167063.924	58351.290	257.275	2015	C	2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JOE-DP8573-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JOE-DP8573-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JOE-DP8573-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103193.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103193.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: JUENEMANN MNDT

NGS Name: JUENEMANN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2543](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	19	27 N	23 W	444829.93	931333.04	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1974	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1995) **Stamping:** JUENEMANN 1974

IN EAGAN, 600.0 FEET EAST ALONG COUNTY ROAD 30 (DIFFLEY ROAD) FROM THE JUNCTION OF COUNTY ROAD 30 (DIFFLEY ROAD) AND TRUNK HIGHWAY 13, THEN 0.25 MILE NORTH ON OLD SIBLEY HIGHWAY, 100.0 FEET EAST OF A FRONTAGE ROAD, ACROSS THE ROAD FROM THE MICROWAVE TOWER, 300.0 FEET NORTHWEST OF THE MICROWAVE TOWER, APPROXIMATELY 85.0 FEET NORTHEAST OF A STEEL GATE ALONG A NEW GREEN CHAIN LINK FENCE, 75.0 FEET EAST-NORTHEAST OF A POWER POLE, APPROXIMATELY 10.0 FEET NORTH OF A GREEN FENCE, 4.0 FEET NORTHWEST OF A WITNESS POST. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	894. 795	0. 016	272. 734	0. 005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.600 12B = -89.603 09 = -89.518 03 = -89.350

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 48 29.93432	93 13 33.04167	523573. 213	222652. 770	159585. 435	67864. 700	245. 423			2012	GPS2800	
NAD83 (2007)	44 48 29.93436	93 13 33.04238	523573. 162	222652. 774	159585. 419	67864. 701	245. 445			2007	GPS2300	
NAD83 (1996)	44 48 29.93371	93 13 33.04166	523573. 214	222652. 708	159585. 435	67864. 681	245. 507	C		2000	GPS1517	
NAD83 (1986)	44 48 29.92773	93 13 33.04025	523573. 316	222652. 103	159585. 466	67864. 497			2	1986	17289	
NAD27	44 48 30.05357	93 13 32.23979							2	1979	15198	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JUENEMANN-PP2543-3N-17NOV2006.jpg	N	Nov 17, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JUENEMANN-PP2543-2-17NOV2006.jpg		Nov 17, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/JUENEMANN-PP2543-1-17NOV2006.jpg		Nov 17, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7447.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7447.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: K 117
County: DAKOTA, MN (Sheet 1)

NGS Name: K 117

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	30	114 N	18 W	443920.97	930204.95	2	3

NGS ACRN: [PP0571](#) [Get Map](#)
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** K 117 1934

1.5 MILES WEST OF EMPIRE, 0.25 MILE SOUTH OF COUNTY ROAD 66, 63.5 FEET EAST OF COUNTY ROAD 81, 350.0 FEET NORTH OF DRIVE NUMBER 20300, 25.0 FEET EAST OF A CABLE BOX, 0.6 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	858.853	0.016	261.779	0.005	2/1	2016	00000879
NGVD29	858.712	0.016	261.736	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.569 12B = -93.560 09 = -93.504 03 = -93.327

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/K_117-PP0571-3E-21OCT2022.jpg	E	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/K_117-PP0571-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/K_117-PP0571-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7448.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7448.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KALT MNDT

NGS Name: KALT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP0862
NGS Quad / Sta Num : 44093142/1138
USGS Quad: BLOOMINGTON

Table with columns: Reference, Reference, Vert, Horz, 1/4, Sec, Twp, Rng, Latitude, Longitude, Order, Order

Table with columns: Year Set, Last Recovery, Condition, Geodetic Usability, Photos, Bridge Num, F/P/R, Magnetic Properties

Table with columns: Monument Type, Disk Type, Mon. Agency

Description: (2012) Stamping: KALT 1963

1.0 MILE SOUTHEAST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST (35W) AND TRUNK HIGHWAY 13 IN BURNSVILLE, 147.0 FEET EAST OF THE JUNCTION OF HEMLOCK DRIVE AND TIMBERLAND DRIVE.

Station Notes

THE PROPERTY NOW HAS A PRIVACY FENCE-THE MARK IS INACCESSIBLE.

Leveling-Derived Orthometric Heights (Elevations)

Table with columns: Vertical Datum, Orthometric (Feet) Height, Accuracy, Orthometric (Meters) Height, Accuracy, Survey Order/(Class), Project Info Year, Reference

Geoid Separations(ft): GEOID18 = -89.386 12B = -89.383 09 = -89.331 03 = -89.140

Geodetic Position and Dakota County Coordinates

Table with columns: Datum and Adjustment, Geodetic Positions Latitude, Longitude, County (Feet) X, Y, County (Meters) X, Y, Ellipsoid Hgt (m), Surv Ord, Project Info Year, Reference

Station Photos

Table with columns: Type, File Name, Dir, Date

** All station images can be viewed at: ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7449.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7449.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KALT RM 1

NGS Name: KALT RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP0861	Get Map
NGS Quad / Sta Num : 44093142/	
USGS Quad: BLOOMINGTON	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	13	115 N	21 W	444545.02	931713.76	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=NO	YES		RECESSED 1 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** KALT NO 1 1963

ABOUT 0.8 MILE SOUTH AND 0.1 MILE EAST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND TRUNK HIGHWAY 13 IN BURNSVILLE, 0.1 MILE SOUTH ALONG HEMLOCK DRIVE FROM THE JUNCTION OF HEMLOCK DRIVE AND UNIQUE DRIVE, AT THE NORTHEAST CORNER OF PROPERTY AT HOUSE NUMBER 509 HEMLOCK DRIVE, 244.0 FEET NORTH OF STATION KALT MNDT, 136.0 FEET NORTH OF A TELEPHONE POLE, 79.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A HOUSE, 53.0 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF A HOUSE, 2.0 FEET SOUTH OF A CURB ON HEMLOCK DRIVE, 32.0 FEET EAST OF A DRIVE TO 509 HEMLOCK DRIVE, 24.0 FEET NORTHWEST OF A 14.0 INCH DIAMETER TREE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	989.775	0.016	301.684	0.005	2/0	1991	00000025
NGVD29	989.562	0.016	301.619	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.380 12B = -89.380 09 = -89.327 03 = -89.137

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KALT_RM_1-PP0861-3S-12JUL2023.jpg	S	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KALT_RM_1-PP0861-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KALT_RM_1-PP0861-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7450.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7450.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KALT RM 2

NGS Name: KALT RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0860](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	13	115 N	21 W	444542.84	931715.88	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1995) **Stamping:** KALT NO 2 1963

ABOUT 0.8 MILE SOUTH AND 0.2 MILE EAST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND TRUNK HIGHWAY 13 IN BURNSVILLE, BETWEEN TIMBERLAND DRIVE AND HEMLOCK DRIVE, 0.2 MILE SOUTH ALONG HEMLOCK DRIVE FROM THE JUNCTION OF HEMLOCK DRIVE AND UNIQUE DRIVE, 178.0 FEET NORTH OF THE JUNCTION OF HEMLOCK DRIVE AND TIMBERLAND DRIVE, AT THE SOUTHWEST CORNER OF PROPERTY AT HOUSE NUMBER 513 HEMLOCK DRIVE, 60.0 FEET WEST-SOUTHWEST OF THE SOUTHWEST CORNER OF A HOUSE, 33.0 FEET NORTHWEST OF A POWER POLE, 18.0 FEET SOUTH OF A DRIVE TO 513 HEMLOCK DRIVE, 4.0 FEET EAST OF A CURB ON HEMLOCK DRIVE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	986.209	0.016	300.597	0.005	2/0	1991	00000025
NGVD29	985.995	0.016	300.532	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.380 12B = -89.380 09 = -89.324 03 = -89.134

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KALT_RM_2-PP0860-3E-12JUL2023.jpg	E	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KALT_RM_2-PP0860-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KALT_RM_2-PP0860-1-03OCT2011.jpg		Oct 3, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7451.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7451.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KELLER

NGS Name: KELLER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6186](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	12	114 N	21 W	444134.17	931728.78	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** KELLER 2014

IN LAKEVILLE, 0.35 MILE SOUTH ALONG SOUTHBOUND INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 5 AND COUNTY ROAD 50 IN LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 85.15, 27.1 FEET WEST-NORTHWEST OF A SOUTHBOUND INTERSTATE HIGHWAY 35 FOG LINE, 76.3 FEET EAST-SOUTHEAST OF A RIGHT-OF-WAY FENCE, 8.0 FEET EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1047.997	0.016	319.430	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.915 09 = -89.852 03 = -89.655

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 41 34.17093	93 17 28.78409	506589.636	180532.705	154408.830	55026.479	292.029			2015	GPS3054	
NAD83 (1996)	44 41 34.17080	93 17 28.78414	506589.632	180532.692	154408.829	55026.475	292.093	C		2014	HBUCK	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KELLER-DP6186-3W-03NOV2022.jpg	W	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KELLER-DP6186-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KELLER-DP6186-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102070.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102070.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KENRICK MNDT

NGS Name: KENRICK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AF9755](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	13	114 N	21 W	444047.36	931734.82		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2006	DESTROYED	Horz=NO Vert=NO	NO		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	SURVEY DISK	MNDT

Description: (1993) **Stamping:** KENRICK 1992

3.0 MILES NORTHWEST OF LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 84.20, 0.1 MILE SOUTH OF 185TH STREET, 97.0 FEET EAST-SOUTHEAST OF NORTHBOUND INTERSTATE HIGHWAY 35, 25.0 FEET WEST-NORTHWEST OF A FRONTAGE ROAD, 3.9 FEET WEST-NORTHWEST OF A RIGHT-OF-WAY FENCE, 73.8 FEET NORTH OF A NO PARKING SIGN, 3.5 FEET WEST-NORTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.016 12B = -90.020 09 = -89.960 03 = -89.757

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 40 47.36263	93 17 34.81583	506155.267	175791.948	154276.434	53581.493	287.307		2012	GPS2800
NAD83 (2007)	44 40 47.36273	93 17 34.81647	506155.221	175791.958	154276.420	53581.496	287.325		2007	GPS2300
NAD83 (1996)	44 40 47.36236	93 17 34.81593	506155.261	175791.922	154276.432	53581.485	287.357	C	1999	GPS927
NAD83 (1986)	44 40 47.35504	93 17 34.81403	506155.398	175791.181	154276.474	53581.259		C	1994	HI35S

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7452.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7452.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KEO MNDT TEMP

NGS Name: KEO TEMP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2615](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	114 N	21 W	443908.27	931758.59		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD (DEPTH 30 FT)	UNMONUMENTED	MNDT

Description: (1980)

Stamping:

2.25 MILES WEST-NORTHWEST OF LAKEVILLE, 0.2 MILE WEST OF INTERSTATE HIGHWAY 35, 14.0 FEET SOUTH OF 205TH STREET WEST, 37.85 FEET NORTHWEST OF A SURVEY REFERENCE POINT (SRP) IN A TELEPHONE POLE, 52.80 FEET SOUTH-SOUTHWEST OF A SURVEY REFERENCE POINT (SRP) IN A POWER POLE.

Station Notes

205TH STREET WEST HAS BEEN WIDENED, THE TIES FALL IN A TURN LANE FROM 205TH STREET WEST TO KEOKUK AVENUE WEST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.207 12B = -90.210 09 = -90.157 03 = -89.947

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 39 08.27213	93 17 58.59299	504439.271	165755.918	153753.397	50522.505	295.495	2	1999	17648
NAD83 (1986)	44 39 08.26445	93 17 58.59234	504439.318	165755.140	153753.412	50522.268		2	1986	17289
NAD27	44 39 08.39608	93 17 57.79316						2	1982	16778

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7453.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7453.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KIMM MNDT

NGS Name: KIMM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7761](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	32	114 N	17 W	443825.30	925225.10	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2022	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 5 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2014) **Stamping:** KIMM 1988

4.2 MILES NORTHWEST OF MIESVILLE, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), THEN 1.0 MILE WEST ON 220TH STREET EAST, THEN 0.75 MILE NORTH ON KIRBY AVENUE, 15.0 FEET WEST OF KIRBY AVENUE, 107.0 FEET NORTHWEST OF A POWER POLE, 66.3 FEET SOUTHWEST OF KIMM RM 1, 66.9 FEET SOUTHWEST OF A WITNESS POST, 19.2 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	877.744 0.016	267.537 0.005	2/1	2016 00000879

Geoid Separations(ft): GEOID18 = -96.109 12B = -96.102 09 = -96.033 03 = -95.879

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	44 38 25.29896	92 52 25.10041	615322.517	161716.972	187550.678	49291.432	238.239		2012	GPS2800
NAD83 (2007)	44 38 25.29908	92 52 25.10106	615322.470	161716.984	187550.664	49291.435	238.266		2007	GPS2300
NAD83 (1996)	44 38 25.29882	92 52 25.10088	615322.483	161716.958	187550.668	49291.427	238.304	C	2004	GPS2041
NAD83 (1986)	44 38 25.29026	92 52 25.09741	615322.739	161716.091	187550.746	49291.163		C	1989	HCANN

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM-DG7761-3W-27OCT2014.jpg	W	Oct 27, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM-DG7761-2-27OCT2014.jpg		Oct 27, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM-DG7761-1-27OCT2014.jpg		Oct 27, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7454.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7454.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KIMM RM 1

NGS Name: KIMM RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1077](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	32	114 N	17 W	443825.69	925224.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** KIMM NO 1 1988

4.2 MILES NORTHWEST OF MIESVILLE, 2.0 MILES NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), THEN 1.0 MILE WEST ON 220TH STREET EAST, THEN 0.75 MILE NORTH ON KIRBY AVENUE, 31.0 FEET EAST OF KIRBY AVENUE, 66.3 FEET NORTHEAST OF STATION KIMM MNDT, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	873.453	0.016	266.229	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.112 12B = -96.105 09 = -96.033 03 = -95.882

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM_RM_1-DQ1077-3E-20OCT2022.jpg	E	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM_RM_1-DQ1077-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM_RM_1-DQ1077-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64161.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64161.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KIMM RM 2

NGS Name: KIMM RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	32	114 N	17 W	443824.88	925224.34		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** KIMM NO 2 1988

6.5 SOUTH-SOUTHWEST OF HASTINGS, 6.0 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, THEN 1.0 MILE WEST ON 205TH STREET, THEN 0.2 MILE SOUTH ON KIRBY AVENUE, 69.4 FEET SOUTHEAST OF STATION KIMM MNDT, 56.0 FEET NORTH-NORTHEAST OF A POWER POLE, 31.0 FEET EAST OF KIRBY AVENUE, 2.0 FEET NORTH OF A WITNESS POST.

Station Notes

THE ROD DEPTH IS UNKNOWN.
 . THE DISK WAS TURNED INTO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.112 12B = -96.109 09 = -96.037 03 = -95.886

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM_RM_2-3E-14AUG2011.jpg	E	Aug 14, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM_RM_2-2-14AUG2011.jpg		Aug 14, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KIMM_RM_2-1-14AUG2011.jpg		Aug 14, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64164.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64164.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KINGS

NGS Name: KINGS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1067](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	32	113 N	17 W	443322.91	925241.66	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 30 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** KINGS 2014

4.3 MILES SOUTHWEST OF MIESVILLE, 3.3 MILES SOUTHWEST ALONG TRUNK HIGHWAY 20 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 20 MILEPOINT 4.2, 32.5 FEET SOUTHEAST OF A TRUNK HIGHWAY 20 FOG LINE, 14.0 FEET SOUTHWEST OF A FIELD ENTRANCE, 1.5 FEET NORTHEAST OF A WITNESS POST.

Station Pair: VINERY MN049 - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	895.668	0.016	273.000	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.502 12B = -96.493 09 = -96.424 03 = -96.302

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 33 22.91016	92 52 41.66350		614289.782	131086.175	187235.900	39955.146	243.587		2016	GPS3148
NAD83 (1996)	44 33 22.91010	92 52 41.66398		614289.747	131086.168	187235.890	39955.144	243.645	C	2016	HTRIER

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KINGS-DQ1067-3E-29SEP2022.jpg	E	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KINGS-DQ1067-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KINGS-DQ1067-1-12NOV2014.jpg		Nov 12, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102887.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102887.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KLAM MN037

NGS Name: KLAM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4342](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	27 N	23 W	444635.83	931304.89	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** KLAM 1988

IN BURNSVILLE, ON A HILL IN THE SOUTHWEST CORNER OF A CLOVERLEAF AT THE JUNCTION OF TRUNK HIGHWAY 77 AND INTERSTATE HIGHWAY 35E, 164.8 FEET WEST OF TRUNK HIGHWAY 77 (CEDAR AVENUE), 220.7 FEET SOUTH OF NORTHBOUND INTERSTATE HIGHWAY 35E, 98.5 FEET WEST-NORTHWEST OF LIGHT STANDARD EIF-BR-14, 4.0 FEET WEST OF A 10.0 INCH DIAMETER POPLAR TREE, 1.0 FOOT EAST OF A WITNESS POST.

Station Notes

THE MARK IS IN THE TREES, SO NO GPS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1028.115	0.016	313.370	0.005	2/1	2020	00000955
NGVD29	1027.882	0.016	313.299	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.869 12B = -89.872 09 = -89.810 03 = -89.613

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 46 35.82708	93 13 04.89453	525616.580	211098.423	160208.254	64342.928			C	1991	H1991	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KLAM-AH4342-3NW-13JUL2023.jpg	NW	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KLAM-AH4342-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KLAM-AH4342-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7455.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7455.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KLUTHE

NGS Name: KLUTHE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1072](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	9	113 N	17 W	443605.29	925124.68	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 5 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** KLUTHE 2014

2.0 MILES WEST OF MIESVILLE, AT THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 20 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 50 MILEPOINT 25.7, 130.0 FEET NORTH OF TRUNK HIGHWAY 50, 28.3 FEET SOUTHEAST OF CANNON FALLS BOULEVARD (EXTENDED TRUNK HIGHWAY 20), 1.5 FEET NORTHWEST OF A WITNESS POST.

Station Pair: JERRY - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	949.227	0.016	289.325	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.565 12B = -96.558 09 = -96.489 03 = -96.352

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 05.28748	92 51 24.68222	619771.201	147561.554	188906.640	44976.852	259.897			2016	GPS3148	
NAD83 (1996)	44 36 05.28747	92 51 24.68271	619771.166	147561.553	188906.629	44976.851	259.954	C		2016	HTRIER	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KLUTHE-DQ1072-3SE-29SEP2022.jpg	SE	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KLUTHE-DQ1072-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/KLUTHE-DQ1072-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102888.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: KRAMER MN037

NGS Name: KRAMER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	33	27 N	24 W	444724.91	931740.28		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2000) **Stamping:** KRAMER 1988

IN BURNSVILLE, 0.35 MILE WEST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 WEST AND CLIFF ROAD THEN 0.5 MILE NORTH ON A TRAIL ON THE EAST EDGE OF A GRAVEL PIT TO AN EAST-WEST TRAIL, 90.0 FEET WEST OF THE JUNCTION OF TRAILS, AT NORTHEAST CORNER OF A LIME ROCK PIT, 12.0 FEET SOUTH OF THE EAST-WEST TRAIL, 90.0 FEET WEST OF A TRAIL SOUTH, COUNTY RAN LEVELS TO STATION IN 1992, IN 1995, THE DEPARTMENT OF NATURAL RESOURCES(DNR) SURVEYS FOUND THE STATION DISTURBED WITH ALUMINUM ROD BENT AND LEANING OVER WITH THE DISK MISSING.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.203 12B = -89.203 09 = -89.121 03 = -88.940

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 47 24. 91400	93 17 40. 28058	505749. 445	216055. 175	154152. 739	65853. 749			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7456.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7456.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L + D 3

NGS Name: L+D 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3480](#) [Get Map](#)
 NGS Quad / Sta Num : 44092442/
 USGS Quad: PRESCOTT

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	115 N	17 W	444533.00	925206.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2002	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MAT FOUNDATION (NON-PAVEMENT)	SURVEY DISK	USACE

Description: (1988) **Stamping:** L+D 3 1988

IN THE NORTHWEST PART OF HASTINGS, AT LOCK AND DAM NUMBER 2, 12.0 FEET NORTHEAST OF A BITUMINOUS ROAD, 25.5 FEET NORTHWEST OF A STEEL WALKWAY TO LOCK AND DAM OPERATORS BUILDING, IN THE TOP OF A CONCRETE FOOTING OF A RADIO TOWER.

Station Notes

NEW RADIO TOWER PUT IN PLACE IN 1993, TIES ARE TO THE OLD CONTROL BUILDING TAKEN DOWN IN 1995.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	694.083	0.016	211.557	0.005	2/1	1995	00000136
NGVD29	693.932	0.016	211.511	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -94.747 12B = -94.777 09 = -94.754 03 = -94.524

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7457.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7457.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L 117

NGS Name: L 117

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0826](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	30	114 N	18 W	443923.00	930054.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1956	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (2010)

Stamping: L-117 1934

IN EMPIRE, 82.5 FEET WEST OF A FORMER RAILROAD CROSSING, ON AN ABANDONED RAILROAD, IN THE CENTER OF SEMAPHORE BASE, 9.0 FEET SOUTH OF AN ABANDONED RAILROAD.

Station Notes

THE TIES FALL IN THE ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	859.319	0.016	261.921	0.005	2/0	1991	00000025
NGVD29	859.178	0.016	261.878	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.819 12B = -93.815 09 = -93.750 03 = -93.579

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7458.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7458.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: L+D B

NGS Name: L+D B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0617](#) [Get Map](#)
 NGS Quad / Sta Num : 44092442/
 USGS Quad: PRESCOTT

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	16	115 N	17 W	444538.00	925201.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2011	GOOD	Horz=YES Vert=YES	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
DAM	BOLT	MNHD

Description: (1970)

Stamping:

1.8 MILES NORTHWEST FROM HASTINGS, IN THE WALKWAY AT THE SOUTH END OF THE DAM AT ABOUT THE CENTER OF THE RIVER, 3.0 FEET FROM THE DOWNSTREAM SIDE OF A WALKWAY.

Station Notes

RECOVERED ONLY BOLT IN AREA IN 2006.
 THE MARK IS A BOLT, ASSUMED OK IN 2011 (LOOK FOR BOLT). THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	693.512	0.016	211.383	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -94.747 12B = -94.777 09 = -94.754 03 = -94.524

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/L+D_B-PP0617-2-15NOV2006.jpg		Nov 15, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/L+D_B-PP0617-1-15NOV2006.jpg		Nov 15, 2006
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52049.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LACY

NGS Name: LACY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4931](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	28 N	23 W	445342.68	930853.37	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** LACY 2011

IN LILYDALE, 0.73 MILE SOUTHWEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35E IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 13 MILEPOINT 108.99, 400.0 FEET SOUTHWEST OF COUNTY ROAD 43 (LEXINGTON AVENUE), 117.0 FEET SOUTHWEST OF AN ENTRANCE TO TOWNHOMES AT ADDRESS 1111, 93.4 FEET SOUTHWEST OF A FIRE HYDRANT, 25.2 FEET SOUTHEAST OF TRUNK HIGHWAY 13, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	814.313	0.016	248.203	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.764 12B = -89.764 09 = -89.685 03 = -89.524

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LACY-DO4931-3SE-03AUG2023.jpg	SE	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LACY-DO4931-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LACY-DO4931-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95077.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAKEVILLE MNDT

NGS Name: LAKEVILLE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0890](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/1133
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	36	114 N	21 W	443838.97	931738.42	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2005	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1990) **Stamping:** LAKEVILLE 1963

3.0 MILES WEST OF LAKEVILLE, 0.1 MILE EAST ALONG COUNTY ROAD 70 FROM THE JUNCTION OF COUNTY ROAD 70 AND INTERSTATE HIGHWAY 35 THEN 400.0 FEET SOUTH ON KENRICK AVENUE, 42.0 FEET WEST OF KENRICK AVENUE, 4.3 FEET NORTHEAST OF A WITNESS POST, 12.0 FEET SOUTH OF A FIELD ENTRANCE, 59.89 FEET SOUTH OF LAKEVILLE RM 1, 110.46 FEET WEST-SOUTHWEST OF LAKEVILLE RM 2.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1096.225	0.016	334.130	0.005	2/0	1991	00000025
NGVD29	1096.048	0.016	334.076	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.354 12B = -90.357 09 = -90.308 03 = -90.098

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 38 38.96766	93 17 38.41702	505898.670	162788.410	154198.223	49618.007	306.681	2	1999	17648		
NAD83 (1986)	44 38 38.96011	93 17 38.41699	505898.673	162787.645	154198.224	49617.773		2	1986	17289		
NAD27	44 38 39.09309	93 17 37.62177						2	1965	13600		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LAKEVILLE-PP0890-3W-01NOV2006.jpg	W	Nov 1, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LAKEVILLE-PP0890-2-01NOV2006.jpg		Nov 1, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LAKEVILLE-PP0890-1-01NOV2006.jpg		Nov 1, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7459.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7459.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAKEVILLE MUNICIPAL TANK

NGS Name: LAKEVILLE MUNICIPAL TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2599](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/1041
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	29	114 N	20 W	443855.67	931438.27		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1935	1981	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	NGS

Description: (1935)

Stamping:

IN LAKEVILLE, 0.1 MILE NORTHWEST OF THE RAILROAD DEPOT, AT THE NORTHEAST CORNER OF 208TH STREET AND HOWLAND AVENUE WEST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.951 12B = -90.958 09 = -90.902 03 = -90.682

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 38 55.67355	93 14 38.27157	518922.160	164487.955	158167.791	50136.029	4	1999	17648			
NAD83 (1986)	44 38 55.66609	93 14 38.26933	518922.323	164487.200	158167.840	50135.799	4	1986	17289			
NAD27	44 38 55.78000	93 14 37.48000					4	1937	03491			

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7460.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7460.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAKEVILLE RM 1

NGS Name: LAKEVILLE RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0888](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	36	114 N	21 W	443839.56	931738.50	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	1971	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1963) **Stamping:** LAKEVILLE RM 1 1963

3.8 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND TRUNK HIGHWAY 50 AT LAKEVILLE THEN 0.25 MILE EAST, 300.0 FEET SOUTH OF COUNTY ROAD 70, 60.0 FEET NORTH OF STATION LAKEVILLE MNDT, 117.5 FEET WEST OF LAKEVILLE RM 2, 48.0 FEET WEST OF KENRICK AVENUE (COUNTY ROAD 5), 47.0 FEET NORTH OF A FIELD ENTRANCE WEST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1095.506	0.016	333.911	0.005	2/0	1991	00000025
NGVD29	1095.332	0.016	333.858	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.351 12B = -90.357 09 = -90.308 03 = -90.095

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7462.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7462.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAKEVILLE RM 2

NGS Name: LAKEVILLE RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0889](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	114 N	21 W	443839.23	931736.94	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	1971	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2006)

Stamping: LAKEVILLE RM 2 1963

3.8 MILES SOUTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND TRUNK HIGHWAY 50 AT LAKEVILLE THEN 0.25 MILE EAST, 300.0 FEET SOUTH OF COUNTY ROAD 70, 110.0 FEET EAST-NORTHEAST OF STATION LAKEVILLE MNDT, 117.5 FEET EAST OF LAKEVILLE RM 1, 65.0 FEET EAST OF KENRICK AVENUE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1096.428	0.016	334.192	0.005	2/0	1991	00000025
NGVD29	1096.251	0.016	334.138	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.357 12B = -90.364 09 = -90.315 03 = -90.102

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7463.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7463.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAKEVILLE SE WATER TANK

NGS Name: LAKEVILLE SE WATER TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2606](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	33	114 N	20 W	443824.12	931333.10		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2022	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	MNDT

Description: (1981) **Stamping:**
 IN THE SOUTHEAST PART OF LAKEVILLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.286 12B = -91.289 09 = -91.237 03 = -91.017

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 38 24.11686	93 13 33.10284	523637.221	161296.727	159604.944	49163.341	4	1999	17648	
NAD83 (1986)	44 38 24.10872	93 13 33.09936	523637.474	161295.903	159605.021	49163.090	4	1986	17289	
NAD27	44 38 24.23037	93 13 32.29583					4	1982	16778	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LAKEVILLE_SE_WATER_TANK-PP2606-3NW-13SEP2011.jpg	NW	Sep 13, 2011
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7464.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7464.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LANDFILL

NGS Name: LANDFILL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4924](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	17	27 N	23 W	444944.47	931207.15	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 45 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** LANDFILL 2011

IN EAGAN, 1.44 MILES SOUTHWEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77 IN EAGAN, AT TRUNK HIGHWAY 13 MILEPOINT 103.24, THEN 0.22 MILE NORTHWEST ON BLACKHAWK ROAD, THEN 70.0 FEET SOUTHWEST ON KENNEBEC DRIVE, 87.7 FEET SOUTHWEST OF BLACKHAWK ROAD, 59.9 FEET SOUTHEAST OF KENNEBEC DRIVE, 1.5 FEET NORTHEAST OF A WITNESS POST. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	782.128	0.016	238.393	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.678 12B = -89.675 09 = -89.583 03 = -89.432

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 49 44.47126	93 12 07.15322	529755.009	230209.674	161469.650	70168.049	211.052			2014	GPS2981	
NAD83 (1996)	44 49 44.47094	93 12 07.15350	529754.989	230209.642	161469.644	70168.039	211.136	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LANDFILL-DO4924-3S-20JUL2023.jpg	S	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LANDFILL-DO4924-2-23NOV2011.jpg		Nov 23, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LANDFILL-DO4924-1-23NOV2011.jpg		Nov 23, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95070.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95070.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LANGER

NGS Name: LANGER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0968](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	115 N	18 W	444534.78	930107.33	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 64 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** LANGER 2015

IN ROSEMOUNT, 0.95 MILE SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 EAST AND TRUNK HIGHWAY 52 IN ROSEMOUNT, AT TRUNK HIGHWAY 55 MILEPOINT 211.7, 50.5 FEET NORTHEAST OF A TRUNK HIGHWAY 55 FOG LINE, 0.15 MILE NORTHWEST OF DOYLE PATH, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: PINE BEND MNDT - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	910.562	0.016	277.540	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.339 12B = -92.326 09 = -92.267 03 = -92.116

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 45 34.77884	93 01 07.32891	577402.757	205041.618	175992.712	62496.810	249.388			2016	GPS3146	
NAD83 (1996)	44 45 34.77873	93 01 07.32931	577402.728	205041.607	175992.704	62496.807	249.450	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LANGER-DQ0968-3NE-15AUG2023.jpg	NE	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LANGER-DQ0968-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LANGER-DQ0968-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103418.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103418.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LARRY

NGS Name: LARRY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1045](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	113 N	19 W	443730.16	930432.95	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** LARRY 2015

3.0 MILES EAST OF FARMINGTON, 3.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 13.75, 0.35 MILE SOUTH ALONG ANNETTE AVENUE, 30.8 FEET WEST OF ANNETTE AVENUE, 27.5 FEET SOUTH OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

Station Pair: SODERGREN - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	906.996	0.016	276.453	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.366 12B = -93.366 09 = -93.310 03 = -93.123

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>			<u>Reference</u>	
NAD83 (2011)	44 37 30.15601	93 04 32.95267	562710.388	155911.314	171514.469	47521.864	247.985			2016	GPS3148
NAD83 (1996)	44 37 30.15598	93 04 32.95316	562710.352	155911.311	171514.458	47521.863	248.044	C		2016	HTRIER

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LARRY-DQ1045-3W-21OCT2022.jpg	W	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LARRY-DQ1045-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LARRY-DQ1045-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103113.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103113.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LAUNCH

NGS Name: LAUNCH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ9273](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	22 W	445254.57	930104.34	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 120 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** LAUNCH 2016

IN SOUTH ST. PAUL, 0.2 MILE NORTH ALONG HARDMAN AVENUE SOUTH FROM THE JUNCTION OF HARDMAN AVENUE SOUTH AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, THEN 0.5 MILE EASTERLY ON VERDEROSA AVENUE TO THE BOAT LAUNCH AREA BEYOND PARKING LOT, IN LEVEE SLOPE TO SOUTHWEST, 30.7 FEET SOUTHWEST OF THE BACK OF A CURB, 30.2 FEET NORTHWEST OF A SIDEWALK, 50.2 FEET NORTHWEST OF THE STAIRS, 1.5 FEET NORTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	702.791	0.016	214.211	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.997 12B = -91.007 09 = -90.925 03 = -90.751

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LAUNCH-DQ9273-3SW-09AUG2023.jpg	SW	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LAUNCH-DQ9273-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LAUNCH-DQ9273-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_105786.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_105786.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LB

NGS Name: LB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	23	28 N	23 W	445418.00	930806.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1932	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	PIPE CAP	USACE

Description: (1932)

Stamping:

ON THE RIGHT BANK OF THE MISSISSIPPI RIVER, BETWEEN MENDOTA AND LILYDALE, 600.0 FEET DOWNSTREAM OF THE RAILROAD JUNCTION AT TOWER CLIFF, AT A RAILROAD BRIDGE OVER A CREEK, 19.0 FEET SOUTH OF DIAMOND BOARD 1061.

Station Notes

LATITUDE AND LONGITUDE AND TIES FALL IN THE PARKING LOT TO THE YACHT CLUB.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.816 12B = -89.816 09 = -89.741 03 = -89.573

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7465.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7465.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LEBANON MNDT

NGS Name: LEBANON

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1373](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1136
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	16	115 N	20 W	444627.62	931317.50	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1989) **Stamping:** LEBANON 1963

6.0 MILES SOUTH OF BLOOMINGTON, IN BURNSVILLE, ON AN OPEN HILL, 600.0 FEET SOUTH OF INTERSTATE HIGHWAY 35E, 4.3 FEET EAST OF A WITNESS POST, 16.5 FEET EAST-SOUTHEAST OF A TWIN 15.0 INCH DIAMETER OAK TREE, 25.5 FEET WEST-NORTHWEST OF A TWIN 8.0 INCH DIAMETER OAK TREE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1084.142	0.016	330.447	0.005	2/0	1991	00000025
NGVD29	1083.918	0.016	330.379	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.855 12B = -89.855 09 = -89.796 03 = -89.600

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 46 27.62150	93 13 17.50367	524707.953	210266.288	159931.304	64089.293	303.142	2	1999	17648				
NAD83 (1986)	44 46 27.61544	93 13 17.50172	524708.094	210265.675	159931.347	64089.106		2	1986	17289				
NAD27	44 46 27.74060	93 13 16.70503						2	1979	15198				

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEBANON-PP1373-3N-20JUL2023.jpg	N	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEBANON-PP1373-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEBANON-PP1373-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7466.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7466.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LEBANON MNDT RM 1

NGS Name: LEBANON RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1371](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1136
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	31	27 N	23 W	444659.06	931301.45	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** LEBANON NO. 1 1963

IN EAGAN, AT THE CORNER OF NICOLS ROAD AND KINGS ROAD, 30.0 FEET EAST OF A DRIVEWAY AT HOUSE NUMBER 2145, 37.2 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF A CONCRETE DRIVE, 30.0 FEET NORTH OF KINGS ROAD, 72.2 FEET EAST OF A POWER POLE, 4.6 FEET EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	974.955	0.016	297.167	0.005	2/1	2020	00000955
NGVD29	974.703	0.016	297.090	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.826 12B = -89.829 09 = -89.767 03 = -89.573

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 46 59.05808	93 13 01.45535	525861.796	213451.540	160282.996	65060.160	269.861	2	1999	17648		
NAD83 (1986)	44 46 59.05040	93 13 01.45422	525861.879	213450.762	160283.021	65059.923		2	1986	17289		
NAD27	44 46 59.17548	93 13 00.65717						2	1979	15198		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEBANON_RM_1-PP1371-3N-20JUL2023.jpg	N	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEBANON_RM_1-PP1371-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEBANON_RM_1-PP1371-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7467.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7467.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LEBANON MNDT RM 2

NGS Name: LEBANON RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1372](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1136
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	16	115 N	20 W	444633.16	931306.08	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1974) **Stamping:** LEBANON NO. 2 1963

6.0 MILES SOUTH OF BLOOMINGTON, 12.1 FEET EAST OF A WITNESS POST, 20.0 FEET WEST OF A POWER POLE, 125.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF A HOUSE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1058.695	0.016	322.691	0.005	2/0	1991	00000025
NGVD29	1058.472	0.016	322.623	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.872 12B = -89.875 09 = -89.813 03 = -89.616

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 46 33.16265	93 13 06.07646	525531.643	210828.469	160182.365	64260.646	295.381	2	1999	17648		
NAD83 (1986)	44 46 33.15642	93 13 06.07490	525531.756	210827.839	160182.400	64260.454		2	1986	17289		
NAD27	44 46 33.28145	93 13 05.27842						2	1979	15198		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7468.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7468.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LEO MN037

NGS Name: LEO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7519](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	7	114 N	16 W	444142.11	924732.60		C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1991	2005	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MNDT

Description: (1991) **Stamping:** LEO 1991

4.5 MILES SOUTHEAST OF HASTINGS, IN RAVENNA TOWNSHIP, 1.4 MILES NORTH ALONG ORLANDO AVENUE FROM THE JUNCTION OF ORLANDO AVENUE AND TRUNK HIGHWAY 316, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF ORLANDO AVENUE AND 175TH STREET, 45.0 FEET NORTH OF 175TH STREET, 25.0 FEET EAST OF ORLANDO AVENUE, 1.5 FEET WEST OF A WITNESS POST.

Station Notes

DISK IS BEAT-UP, HARD TO READ. THE DISK WAS TURNED IN TO THE OFFICE. NEEDS TO BE RESET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.814 12B = -96.817 09 = -96.762 03 = -96.591

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	44 41 42.10593	92 47 32.59681	6363440000	181774.227	193958.039	55404.895	220.536		2012	GPS2800
NAD83 (2007)	44 41 42.10612	92 47 32.59762	636343.941	181774.245	193958.021	55404.901	220.549		2007	GPS2300
NAD83 (1996)	44 41 42.10577	92 47 32.59710	636343.979	181774.210	193958.033	55404.890	220.605	C	2000	GPS1517
NAD83 (1986)	44 41 42.09677	92 47 32.59566	636344.088	181773.298	193958.066	55404.612		C	1992	C019

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEO-AI7519-3E-04NOV2022.jpg	E	Nov 4, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEO-AI7519-2-04NOV2022.jpg		Nov 4, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LEO-AI7519-1-04NOV2022.jpg		Nov 4, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7469.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7469.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LIVER MN037

NGS Name: LIVER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI7520](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	114 N	18 W	444109.96	925715.34		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	SURVEY DISK	MN-037

Description: (1991) **Stamping:** LIVER 1991

5.5 MILES SOUTHWEST OF HASTINGS, 1.0 MILE NORTHEAST OF VERMILLION, IN VERMILLION TOWNSHIP, 0.9 MILE NORTH ALONG COUNTY ROAD 85 FROM THE JUNCTION OF COUNTY ROAD 85 AND COUNTY ROAD 62, 20.0 FEET WEST OF COUNTY ROAD 85, 20.0 FEET SOUTH OF THE SOUTHWEST CORNER OF COUNTY ROAD 85 BRIDGE OVER THE VERMILLION RIVER, 4.0 FEET WEST OF A GUARDRAIL, 28.0 FEET EAST-SOUTHEAST OF A POWER POLE, 2.0 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.308 12B = -94.311 09 = -94.242 03 = -94.065

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 41 09.95570	92 57 15.34505	594261.717	178288.972	181131.334	54342.588	224.646		2012	GPS2800
NAD83 (2007)	44 41 09.95581	92 57 15.34585	594261.659	178288.983	181131.316	54342.591	224.661		2007	GPS2300
NAD83 (1996)	44 41 09.95556	92 57 15.34553	594261.683	178288.958	181131.323	54342.583	224.721	C	2000	GPS1517
NAD83 (1986)	44 41 09.94895	92 57 15.33953	594262.119	178288.292	181131.456	54342.380		C	1992	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LIVER-AI7520-3W-19OCT2022.jpg	W	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LIVER-AI7520-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LIVER-AI7520-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7470.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7470.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LOL MNDT TEMP

NGS Name: LOL TEMP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2601](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	114 N	19 W	444040.00	930813.00		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	1988	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (1988) **Stamping:** LOL 1980

2.5 MILES NORTH OF FARMINGTON, 2.55 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50, IN EMPIRE TOWNSHIP, AT TRUNK HIGHWAY 3 MILEPOINT 28.6, 72.0 FEET WEST OF TRUNK HIGHWAY 3, 4.2 FEET EAST OF A FENCE LINE, 26.91 FEET SOUTH-SOUTHEAST OF A SURVEY REFERENCE POINT (SRP) IN A T-FENCE POST, 7.3 FEET NORTHEAST OF A STEEL FENCE POST, 1.0 FOOT SOUTH OF A WITNESS POST WITHOUT A SIGN, STATION LOL MNDT TEMP (1980) WAS RESET IN 1988 IN THE SAME HORIZONTAL POSITION AND IS NOW NAMED STATION LOL MNDT TEMP RESET.

Station Notes
REPLACED BY LOL MNDT TEMP RESET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.034 12B = -92.031 09 = -91.978 03 = -91.762

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 40 39.90388	93 08 12.71818	546773.145	175087.289	166656.788	53366.712	274.953	2	1999	17648		
NAD83 (1986)	44 40 39.89642	93 08 12.71519	546773.363	175086.534	166656.854	53366.482		2	1986	17289		
NAD27	44 40 40.02174	93 08 11.93426						2	1982	16778		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7471.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7471.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LOL MNDT TEMP RESET

NGS Name: LOL TEMP RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9109](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	114 N	19 W	444039.90	930812.72	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER IS STEEL ROD

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** LOL 1988

2.5 MILES NORTH OF FARMINGTON, 2.55 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50, IN EMPIRE TOWNSHIP, AT TRUNK HIGHWAY 3 MILEPOINT 28.6, 72.0 FEET WEST OF TRUNK HIGHWAY 3, 4.2 FEET EAST OF A FENCE LINE, 16.5 FEET WEST OF A WITNESS POST FOR STATION MAR.

Station Notes

STATION LOL MNDT TEMP (1980) WAS RESET IN 1988 IN THE SAME HORIZONTAL POSITION AND IS NOW NAMED STATION LOL MNDT TEMP RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	990.687	0.016	301.962	0.005	2/1	2004	00000449
NGVD29	990.562	0.016	301.924	0.005	2/1	1991	VFARM

Geoid Separations(ft): GEOID18 = -92.034 12B = -92.031 09 = -91.978 03 = -91.762

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 40 39.90388	93 08 12.71818	546773.145	175087.289	166656.788	53366.712	2	1999	17648			
NAD83 (1986)	44 40 39.89642	93 08 12.71519	546773.362	175086.533	166656.854	53366.482	C	1991	H1991			
NAD27	44 40 40.02174	93 08 11.93426					C	1950	UNK			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOL_TEMP_RESET-DE9109-3W-31OCT2022.jpg	W	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOL_TEMP_RESET-DE9109-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOL_TEMP_RESET-DE9109-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7472.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LONS MN131

NGS Name: LONS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5084](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	112 N	20 W	442817.22	931255.70		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2005	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1989) **Stamping:** LONS 1989

1.0 MILE NORTH AND 3.0 MILES WEST OF NORTHFIELD, 2.8 MILES WEST ALONG TRUNK HIGHWAY 19/LONSDALE BOULEVARD THEN 0.2 MILE NORTH ON DECKER AVENUE, THEN 0.2 MILE WEST ON 80TH STREET, 16.0 FEET NORTHWEST (ON THE SHOULDER) OF 80TH STREET, 91.5 FEET NORTH-NORTHEAST OF TRUNK HIGHWAY 19, 10.2 FEET SOUTHEAST OF A WITNESS POST. THE STATION IS BURIED 0.2 FOOT BELOW THE GROUND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.592 12B = -92.618 09 = -92.575 03 = -92.405

Geodetic Position and Rice County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 28 17.22067	93 12 55.70293	478556.500	200899.924	145864.313	61234.419	284.098		2012	GPS2800
NAD83 (2007)	44 28 17.22079	93 12 55.70367	478556.446	200899.936	145864.297	61234.423	284.122		2007	GPS2300
NAD83 (1996)	44 28 17.22063	93 12 55.70317	478556.483	200899.920	145864.308	61234.418	284.177	C	2000	GPS1517
NAD83 (1986)	44 28 17.21227	93 12 55.70138	478556.612	200899.073	145864.347	61234.160		C	1992	HCHIC

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_26266.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_26266.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LOTTO MNDT

NGS Name: LOTTO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AF9756](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	25	114 N	21 W	443907.62	931741.79	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1992	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (1993) **Stamping:** LOTTO 1992

2.0 MILES WEST OF LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 82.3, 26.1 FEET EAST OF SOUTHBOUND INTERSTATE HIGHWAY 35, 58.5 FEET WEST OF NORTHBOUND INTERSTATE HIGHWAY 35, 22.2 FEET SOUTH-SOUTHEAST OF SOUTHEAST CORNER OF SOUTHBOUND INTERSTATE HIGHWAY 35 BRIDGE, 52.0 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF NORTHBOUND INTERSTATE HIGHWAY 35 BRIDGE, 68.9 FEET NORTH-NORTHWEST OF THE NOSE OF A GUARDRAIL, 2.8 FEET NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1063.367	0.016	324.115	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.262 12B = -90.269 09 = -90.216 03 = -90.006

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 39 07.62171	93 17 41.78858	505654.123	165690.335	154123.685	50502.515	296.607			2016	GPS3152	
NAD83 (2007)	44 39 07.62180	93 17 41.78923	505654.076	165690.344	154123.671	50502.518	296.626			2007	GPS2300	
NAD83 (1996)	44 39 07.62144	93 17 41.78869	505654.115	165690.307	154123.683	50502.507	296.661	C		2016	HDAK2	
NAD83 (1986)	44 39 07.61409	93 17 41.78681	505654.251	165689.564	154123.724	50502.280		C		1994	HI35S	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOTTO-AF9756-3S-03NOV2022.jpg	S	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOTTO-AF9756-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOTTO-AF9756-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

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Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7473.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LOUIE

NGS Name: LOUIE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4925](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	9	27 N	23 W	445026.83	931114.39	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** LOUIE 2011

IN EAGAN, 1.5 MILES SOUTHWEST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 494 IN EAGAN, AT TRUNK HIGHWAY 13 MILEPOINT 104.46, 135.5 FEET NORTHWEST OF TRUNK HIGHWAY 13, 103.3 FEET SOUTHWEST OF TERMINAL DRIVE, 69.3 FEET SOUTHEAST OF A BUILDING, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	800.326	0.016	243.940	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.724 12B = -89.724 09 = -89.632 03 = -89.481

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 50 26.83331	93 11 14.38652	533551.233	234505.809	162626.741	71477.513	216.585			2014	GPS2981	
NAD83 (1996)	44 50 26.83304	93 11 14.38678	533551.215	234505.781	162626.736	71477.505	216.668	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOUIE-DO4925-3NW-01AUG2023.jpg	NW	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOUIE-DO4925-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LOUIE-DO4925-1-23NOV2011.jpg		Nov 23, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95071.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95071.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LUCAS

NGS Name: LUCAS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ3484](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	114 N	16 W	444222.32	924620.83		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 45 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** LUCAS 2014

4.2 MILES SOUTHEAST OF HASTINGS, 1.2 MILES EAST ALONG EAST 10TH STREET FROM THE JUNCTION OF EAST 10TH STREET AND TRUNK HIGHWAY 61 IN HASTINGS, THEN 3.2 MILES SOUTHEAST ON COUNTY ROAD 54, THEN 0.3 MILE SOUTH ON POLK AVENUE, 31.4 FEET WEST OF POLK AVENUE, 15.0 FEET NORTH OF A FIELD ENTRANCE, 1.5 FEET WEST OF GATE POST, 1.5 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.998 12B = -97.008 09 = -96.949 03 = -96.771

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 42 22.32320	92 46 20.82716	641501.267	185881.262	195529.977	56656.722	193.241		2016	GPS3152
NAD83 (1996)	44 42 22.32305	92 46 20.82750	641501.242	185881.247	195529.970	56656.718	193.304	C	2016	HDAK2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LUCAS-DQ3484-3W-27SEP2022.jpg	W	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LUCAS-DQ3484-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/LUCAS-DQ3484-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102050.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102050.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: LVTANK MN037

NGS Name: LVTANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	3	114 N	20 W	444211.34	931245.90		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1992) **Stamping:** LVTANK 1988

IN LAKEVILLE, 1.0 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 23 (CEDAR AVENUE) AND COUNTY ROAD 46 THEN 2.0 BLOCKS EAST ON 170TH STREET TO A TRAIL TO A WATER TANK, ON THE EAST SIDE OF A WATER TANK, 41.4 FEET SOUTHEAST OF A POWER POLE, 56.9 FEET SOUTHWEST OF A POWER POLE, 2.6 FEET SOUTH OF A WITNESS POST.

Station Notes

COUNTY RAN LEVELS TO THE STATION IN 1992.
 WATER TOWER WAS REMOVED FALL 2006, REPLACED WITH CELLULAR PHONE TOWER AND ONLY ONE POWER POLE IN THE AREA. AREA GATED FOR ACCESS CALL 952-985-2700

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.745 12B = -90.748 09 = -90.686 03 = -90.472

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 42 11. 34254	93 12 45. 90974	527020. 285	184313. 572	160636. 104	56178. 889			C	1991	H1991	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7474.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7474.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MALLAND MN037

NGS Name: MALLAND

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	22	27 N	22 W	444851.69	930232.66		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2000) **Stamping:** MALLAND 1988

IN INVER GROVE HEIGHTS, 0.45 MILE NORTH-NORTHWEST OF THE JUNCTION OF TRUNK HIGHWAY 52-TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 56, 28.0 FEET NORTH-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 213.0 FEET SOUTH OF AN ENTRANCE, 4.0 FEET EAST OF A STEEL POST AND A GUARDRAIL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.358 12B = -91.352 09 = -91.306 03 = -91.128

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 48 51.69059	93 02 32.66143	571178.113	224962.959	174095.437	68568.847			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7475.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7475.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MAR

NGS Name: MAR

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8574](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	114 N	19 W	444039.96	930812.47	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** MAR 2015

3.25 MILES NORTH OF FARMINGTON, 3.25 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 28.6, 54.3 FEET WEST OF TRUNK HIGHWAY 3, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: ALOJADO - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	985.356	0.016	300.337	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.037 12B = -92.031 09 = -91.978 03 = -91.765

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 40 39.95785	93 08 12.46677		546791.300	175092.795	166662.322	53368.391	272.291		2015	GPS3101
NAD83 (1996)	44 40 39.95784	93 08 12.46714		546791.273	175092.794	166662.313	53368.390	272.361	C	2015	HFARM2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MAR-DP8574-3W-31OCT2022.jpg	W	Oct 31, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MAR-DP8574-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MAR-DP8574-1-06APR2015.jpg		Apr 6, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103194.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103194.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MARCOTTA

NGS Name: MARCOTTA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2530](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1015
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	21	27 N	22 W	444853.10	930306.03		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1888	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	NGS

Description: (1999) **Stamping:** MARCOTTA 1888 1963

IN INVER GROVE TOWNSHIP, 0.25 MILE SOUTHWEST OF TRUNK HIGHWAY 52, ON THE HIGHEST HILL, 200.0 FEET SOUTH OF AN EAST-WEST FENCE, 4.0 FEET WEST OF A WITNESS POST, 100.0 FEET NORTH OF FIRESIDE ARABIAD RANCH ROAD.

Station Notes
THE SURVEY MARK WAS RESET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	1012.547	0.016	308.625	0.005	2	1972	L122 MINN

Geoid Separations(ft): GEOID18 = -91.243 12B = -91.237 09 = -91.187 03 = -91.007

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 48 53.10251	93 03 06.03436	568771.773	225097.990	173361.983	68610.005	280.669	2	1999	17648		
NAD83 (1986)	44 48 53.09490	93 03 06.03178	568771.961	225097.220	173362.041	68609.770		2	1986	17289		
NAD27	44 48 53.21400	93 03 05.25900						2	1933	01323		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7476.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7476.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MARCOTTA RESET

NGS Name: MARCOTTA RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1322](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	21	27 N	22 W	444853.10	930306.03	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 3 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	NGS

Description: (1971) **Stamping:** MARCOTTA USC AND GS-1888 - 1963

IN INVER GROVE HEIGHTS. THE STATION IS LOCATED 2.1 MILES EAST ALONG TRUNK HIGHWAY 55- TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 55-TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 3 IN INVER GROVE HEIGHTS, THEN ABOUT 0.25 MILE SOUTH ALONG FIRESIDE ARABIAD RANCH ROAD FROM THE JUNCTION OF THE RANCH ROAD AND A TOWNSHIP ROAD, THEN 100.0 FEET NORTH AND ABOUT 20.0 FEET HIGHER THAN THE RANCH ROAD, 4.0 FEET WEST OF A STEEL WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1012.678	0.016	308.665	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -91.240 12B = -91.233 09 = -91.184 03 = -91.004

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_54351.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_54351.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MARCOTTA RM 1

NGS Name: MARCOTTA RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1324](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1015
 USGS Quad: INVER GROVE HEIGHTS

				Reference	Reference	Vert	Horz
1/4	Sec	Twp	Rng	Latitude	Longitude	Order	Order
NE	21	27 N	22 W	444908.25	930313.91	2	2

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1963	2023	GOOD	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2006) **Stamping:** MARCOTTA NO.1 U.S.C.& G.S. 1888 1963

IN INVER GROVE HEIGHTS, 0.25 MILE SOUTHWEST OF TRUNK HIGHWAY 52, 16.0 FEET SOUTH OF AN UNMAINTAINED TOWNSHIP ROAD, 250.0 FEET NORTH OF AN ABANDONED HOUSE, 200.0 FEET NORTH OF A WHITE BARN, 10.0 FEET EAST OF A 10.0 INCH DIAMETER OAK TREE, 2.6 FEET SOUTHEAST OF A WITNESS POST, 100.0 FEET SOUTH OF A POWER POLE. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	948.161	0.016	289.000	0.005	2/1	2016	00000879
NGVD29	948.036	0.016	288.962	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -91.168 12B = -91.168 09 = -91.115 03 = -90.932

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (1996)	44 49 08.24509	93 03 13.91454	568198.740	226629.781	173187.322	69076.895	260.893	2	1999	17648		
NAD83 (1986)	44 49 08.23745	93 03 13.91187	568198.935	226629.008	173187.382	69076.660		2	1986	17289		
NAD27	44 49 08.35668	93 03 13.13856						2	1965	13600		

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MARCOTTA_RM_1-PP1324-3W-31AUG2011.jpg	W	Aug 31, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MARCOTTA_RM_1-PP1324-2-31AUG2011.jpg		Aug 31, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MARCOTTA_RM_1-PP1324-1-31AUG2011.jpg		Aug 31, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7477.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7477.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MARCOTTA RM 2

NGS Name: MARCOTTA RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP1323	Get Map
NGS Quad / Sta Num : 44093112/1015	
USGS Quad: INVER GROVE HEIGHTS	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	21	27 N	22 W	444908.64	930259.01	2	2

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1963	2006	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: (1988) **Stamping:** MARCOTTA RM 2 USC AND GS - 1888 - 1963

IN INVER GROVE TOWNSHIP, 0.25 MILE SOUTHWEST OF TRUNK HIGHWAY 52, 28.0 FEET NORTHEAST OF TRUNK HIGHWAY 52, 30.0 FEET NORTHWEST OF AN ENTRANCE, 5.0 FEET EAST-SOUTHEAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	928.328	0.016	282.955	0.005	2/0	1991	00000025
NGVD29	928.197	0.016	282.915	0.005	2	1972	L122 MINN

Geoid Separations(ft): GEOID18 = -91.217 12B = -91.214 09 = -91.165 03 = -90.981

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (1996)	44 49 08.64292	93 02 59.00790	569273.152	226673.568	173514.804	69090.242	254.878	2	1999	17648
NAD83 (1986)	44 49 08.63524	93 02 59.00528	569273.343	226672.791	173514.862	69090.005		2	1986	17289
NAD27	44 49 08.75440	93 02 58.23233						2	1965	13600

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7478.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7478.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MARSHAN

NGS Name: MARSHAN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1079](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	28	114 N	17 W	443905.28	925113.60	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** MARSHAN 2015

5.0 MILES SOUTH OF HASTINGS, 4.7 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 111.0, 47.8 FEET WEST OF TRUNK HIGHWAY 61, 0.1 MILE SOUTH OF 205TH STREET EAST, 20.3 FEET SOUTH OF A FIELD ENTRANCE, 10.5 FEET NORTH OF A WITNESS POST.

Station Pair: DORER MNDT - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	860.093	0.016	262.157	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.306 12B = -96.299 09 = -96.227 03 = -96.076

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 39 05.27636	92 51 13.60544	620469.040	165794.445	189119.342	50534.248	232.806			2016	GPS3147	
NAD83 (1996)	44 39 05.27627	92 51 13.60586	620469.010	165794.436	189119.332	50534.245	232.868	C		2016	HMTES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MARSHAN-DQ1079-3W-28SEP2022.jpg	W	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MARSHAN-DQ1079-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MARSHAN-DQ1079-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103421.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103421.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MC NAMARA MRC

NGS Name: MCNAMARA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2448](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/1003
USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	1	114 N	17 W	444253.00	924820.11		C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1895	2007	POOR	Horz=YES Vert=YES	YES		PROJECTS 8 IN.	STEEL SPIKE IMBED IN MON

Monument Type	Disk Type	Mon. Agency
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	CAP OF CAP-AND-BOLT PAIR	MRC

Description: (2007)

Stamping:

3.5 MILES SOUTHEAST OF HASTINGS, ON THE HIGHEST KNOLL IN THE AREA, 2.8 MILES SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE NORTH JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 THEN 1.8 MILES NORTH ON COUNTY ROAD 91 THEN 0.5 MILE EAST ON 160TH STREET, 246.0 FEET NORTH OF HOUSE NUMBER 14740.

Station Notes

NO CAP ON THE PIPE. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.440 12B = -96.443 09 = -96.397 03 = -96.217

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	44 42 52.99825	92 48 20.10941	632866.724	188932.082	192898.163	57586.614	262.064		2012	GPS2800
NAD83 (2007)	44 42 52.99844	92 48 20.11016	632866.670	188932.101	192898.147	57586.620	262.090		2007	GPS2300
NAD83 (1996)	44 42 52.99829	92 48 20.11042	632866.651	188932.086	192898.141	57586.615	262.193	C	1999	17648
NAD83 (1986)	44 42 52.98905	92 48 20.10779	632866.847	188931.151	192898.201	57586.330		1	1986	17289
NAD27	44 42 53.10803	92 48 19.37902						1	1933	01236

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MCNAMARA-PP2448-3S-27SEP2022.jpg	S	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MCNAMARA-PP2448-1-13NOV2006.jpg		Nov 13, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7479.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7479.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MEDIAN MN037
County: DAKOTA, MN (Sheet 1)

NGS Name: MEDIAN

NGS ACRN: [DH4697](#) [Get Map](#)
NGS Quad / Sta Num : 44093124/
USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	28	115 N	20 W	444415.39	931303.73			1988	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET
<u>Monument Type</u>							<u>Disk Type</u>				<u>Mon. Agency</u>				
UNKNOWN							SURVEY DISK				MN-037				

Description: (2011)

Stamping: MEDIAN 1988

IN APPLE VALLEY, 0.4 MILE NORTH OF THE JUNCTION OF COUNTY ROAD 42 (150TH STREET) AND COUNTY ROAD 23 (CEDAR AVENUE), 0.1 MILE NORTH OF 147TH STREET, IN A GRASS MEDIAN NORTH OF 147TH STREET, 0.15 MILE SOUTH OF 145TH STREET, 4.4 FEET WEST OF THE BACK OF A CURB, 1.0 FOOT EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.272 12B = -90.275 09 = -90.213 03 = -90.006

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 44 15.38296	93 13 03.72670	525718.109	196874.534	160239.200	60007.478			C	1991	H1991	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MEDIAN-DH4697-3NE-28SEP2011.jpg	NE	Sep 28, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MEDIAN-DH4697-2-28SEP2011.jpg		Sep 28, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MEDIAN-DH4697-1-28SEP2011.jpg		Sep 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7480.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7480.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MEDICAL MN037

NGS Name: MEDICAL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: AC5068	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	19	27 N	22 W	444836.83	930617.69	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 43 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2009) **Stamping:** MEDICAL 1988

IN INVER GROVE HEIGHTS, 0.15 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 3, THEN TAKE AN ENTRANCE NORTH TO THE SOUTHWEST CORNER OF AN ABANDONED MEDICAL MANUFACTURER PARKING LOT, THEN FOLLOW THE TRAIL TO THE TOP OF A HILL, 200.0 FEET SOUTH OF THE SOUTH EDGE OF A PARKING LOT, WEST OF A BUILDING, ON THE TOP OF A HILL, 3.2 FEET SOUTH OF A WITNESS POST.

Station Notes

MARK WAS DESTROYED BY B2 BUILDERS, LONDON KRONA DUE TO SITE DEVELOPMENT. 6/2/2021.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	943. 896	0. 016	287. 700	0. 005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.692 12B = -90.692 09 = -90.623 03 = -90.439

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>						<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 48 36. 83405	93 06 17. 68842	554959. 673	223409. 885	169152. 047	68095. 469	260. 050			2012	GPS2800			
NAD83 (2007)	44 48 36. 83416	93 06 17. 68931	554959. 609	223409. 896	169152. 027	68095. 473	260. 065			2007	GPS2300			
NAD83 (1996)	44 48 36. 83388	93 06 17. 68875	554959. 649	223409. 868	169152. 039	68095. 464	260. 116	C		2009	HINVR			
NAD83 (1986)	44 48 36. 82619	93 06 17. 68598	554959. 851	223409. 091	169152. 101	68095. 227		C		1989	C019			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MEDICAL-AC5068-3N-02JUN2021.jpg	N	Jun 2, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MEDICAL-AC5068-2-05OCT2011.jpg		Oct 5, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MEDICAL-AC5068-1-02JUN2021.jpg		Jun 2, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7481.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7481.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELSON MNDT

NGS Name: MELSON

County: DAKOTA, MN (Sheet 1)

NGS ACRN: AB9793
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

Table with columns: Reference (Latitude, Longitude), Vert Order, Horiz Order. Values: 443605.87, 930904.07, 2, C

Table with columns: Year Set, Last Recovery, Condition, Geodetic Usability, Photos, Bridge Num, F/P/R, Magnetic Properties. Values: 1988, 2017, DESTROYED, Horiz=NO Vert=NO, YES, RECESSED 2 IN., MARKER W/BAR MAGNET

Table with columns: Monument Type, Disk Type, Mon. Agency. Values: UNKNOWN, HORIZONTAL CONTROL DISK, MNDT

Description: (2011) Stamping: MELSON 1988

2.0 MILES SOUTH OF FARMINGTON, 0.7 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 3 AND 240TH STREET, 26.5 FEET SOUTH OF 240TH STREET, 32.5 FEET WEST OF DRIVEWAY NUMBER 4204 SOUTH, 4.6 FEET NORTHWEST OF A POWER POLE, 38.8 FEET EAST-NORTHEAST OF MELSON MNDT RM 1, 46.2 FEET SOUTH-SOUTHEAST OF MELSON MNDT RM 2, 4.0 FEET NORTH-NORTHWEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

Table with columns: Vertical Datum, Orthometric (Feet) Height Accuracy, Orthometric (Meters) Height Accuracy, Survey Order/(Class), Project Info Year Reference. Rows: NAVD88, NGVD29

Geoid Separations(ft): GEOID18 = -92.575 12B = -92.595 09 = -92.539 03 = -92.339

Geodetic Position and Dakota County Coordinates

Table with columns: Datum and Adjustment, Geodetic Positions (Latitude, Longitude), County (Feet) X Y, County (Meters) X Y, Ellipsoid Hgt (m), Surv Ord, Project Info Year Reference. Rows: NAD83 (2011), NAD83 (2007), NAD83 (1996), NAD83 (1986)

Station Photos

Table with columns: Type, File Name, Dir, Date. Rows: Location, Monument, Disk

** All station images can be viewed at: ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7482.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7482.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELSON MNDT RESET

NGS Name: MELSON RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1126](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	113 N	19 W	443605.87	930904.07	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** MELSON 1988 2014

2.0 MILES SOUTH OF FARMINGTON, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 23.4, THEN 0.7 MILE WEST ON 240TH STREET, 32.5 FEET WEST OF DRIVEWAY NUMBER 4204, 4.6 FEET NORTHWEST OF A POWER POLE, 38.8 FEET EAST-NORTHEAST OF MELSON MNDT RM 1, 46.2 FEET SOUTH-SOUTHEAST OF MELSON MNDT RM 2, 4.0 FEET NORTH-NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>	<u>Order/(Class)</u>	<u>Year</u>	<u>Reference</u>
NAVD88	977.321	0.016	297.888	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.575 12B = -92.595 09 = -92.539 03 = -92.339

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RESET-DQ1126-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RESET-DQ1126-2-02SEP2014.jpg		Sep 2, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RESET-DQ1126-1-02SEP2014.jpg		Sep 2, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102295.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102295.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELSON MNDT RM 1

NGS Name: MELSON RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4286](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	113 N	19 W	443605.86	930904.60	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2017	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** MELSON NO 1 1988

2.0 MILES SOUTH OF FARMINGTON, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 23.4, THEN 0.7 MILE WEST ON 240TH STREET, 38.8 FEET WEST-SOUTHWEST OF STATION MELSON MNDT RESET, 27.5 FEET SOUTH OF 240TH STREET, 1.1 FEET NORTH OF A WITNESS POST.

Station Notes

THE MARK WAS DESTROYED BY DAKOTA COUNTY CONSTRUCTION.
DO NOT RESET ROD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	978.617	0.016	298.283	0.005	2/1	2016	00000879
NGVD29	978.495	0.016	298.246	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.575 12B = -92.592 09 = -92.539 03 = -92.339

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_1-DM4286-3S-03NOV2014.jpg	S	Nov 3, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_1-DM4286-2-03NOV2014.jpg		Nov 3, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_1-DM4286-1-03NOV2014.jpg		Nov 3, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7483.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7483.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELSON MNDT RM 2

NGS Name: MELSON RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM4285](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	18	113 N	19 W	443606.32	930904.11	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 10 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** MELSON NO 2 1988

2.0 MILES SOUTH OF FARMINGTON, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAYS 3 AND 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 23.4, THEN 0.7 MILE WEST ON 240TH STREET, 46.2 FEET NORTH-NORTHWEST OF STATION MELSON MNDT RESET, 20.0 FEET NORTH OF 240TH STREET, 37.0 FEET EAST OF DRIVEWAY NUMBER 4225, 5.2 FEET SOUTHEAST OF THE SOUTHERLY POST TO A RAILROAD CROSSING SIGN, 3.3 FEET SOUTH OF A WITNESS POST.

Station Notes

THE MARK WAS DESTROYED BY DAKOTA COUNTY CONSTRUCTION.
DO NOT RESET ROD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	976.238	0.016	297.558	0.005	2/1	2016	00000879
NGVD29	976.117	0.016	297.521	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.575 12B = -92.592 09 = -92.539 03 = -92.339

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_2-DM4285-3N-03NOV2014.jpg	N	Nov 3, 2014
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_2-DM4285-2-03NOV2014.jpg		Nov 3, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_2-DM4285-1-03NOV2014.jpg		Nov 3, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7484.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7484.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MELSON MNDT RM 3

NGS Name: MELSON RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7764](#) [Get Map](#)
NGS Quad / Sta Num : 44093123/
USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	17	113 N	19 W	443605.58	930810.86	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** MELSON NO 3 1988

2.0 MILES SOUTH OF FARMINGTON, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 23.4, 120.0 FEET EAST OF TRUNK HIGHWAY 3, 30.0 FEET SOUTH OF COUNTY ROAD 78, 0.7 FOOT NORTH OF A WITNESS POST.

Station Notes
DO NOT RESET.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	977.334	0.016	297.892	0.005	2/1	2016	00000879
NGVD29	977.213	0.016	297.855	0.005	2/1	1992	VNORT

Geoid Separations(ft): GEOID18 = -92.762 12B = -92.779 09 = -92.729 03 = -92.529

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 05.58440	93 08 10.85639	546969.198	147305.479	166716.545	44898.800	269.609			2012	GPS2800	
NAD83 (2007)	44 36 05.58452	93 08 10.85709	546969.148	147305.491	166716.530	44898.803	269.633			2007	GPS2300	
NAD83 (1996)	44 36 05.58432	93 08 10.85708	546969.149	147305.471	166716.530	44898.797	269.681	C		2004	GPS2041	
NAD83 (1986)	44 36 05.57689	93 08 10.85576	546969.247	147304.719	166716.560	44898.568				1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_3-DG7764-3S-28OCT2022.jpg	S	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_3-DG7764-2-23AUG2011.jpg		Aug 23, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MELSON_RM_3-DG7764-1-23AUG2011.jpg		Aug 23, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7485.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7485.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MENDOTA MRC

NGS Name: MENDOTA MRC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093114/203
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	28 N	23 W	445241.81	931006.53		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1895	2008	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (TILE OR CLAY) FILLED WITH CONCRETE	SEE DESCRIPTION	MRC

Description: (1895)

Stamping:

ON A PROMINENT POINT CALLED PILOT KNOB, 0.5 MILE ABOVE THE MENDOTA CATHOLIC CHURCH, 656.0 FEET BACK FROM THE BROW OF A BLUFF, 328.0 FEET WEST OF A NORTH-SOUTH WAGON ROAD, 820.0 FEET SOUTH OF A BRICK HOUSE, 984.0 FEET NORTHEAST OF A SECTION CORNER.

Station Notes

THE TIES FALL IN THE PARKING LOT OF A CEMETERY ON TOP OF A HILL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.685 12B = -89.685 09 = -89.600 03 = -89.452

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u>	<u>Surv</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Hgt (m)</u>	<u>Ord</u>	<u>Year</u>	<u>Reference</u>
NAD27	44 52 41.93600	93 10 05.73700							1950	UNK

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7486.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7486.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MENDOTA ST PETERS CATH SPIRE

NGS Name: MENDOTA ST PETERS CATH SPIRE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM6925](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445310.89	931005.64		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	CHURCH SPIRE	MNDT

Description: (1985)

Stamping:

IN THE WESTERN PART OF MENDOTA, 1.5 MILES NORTHEAST OF THE SOUTHEAST END OF A MENDOTA BRIDGE OVER THE MINNESOTA RIVER, 300.0 FEET NORTHWEST OF TRUNK HIGHWAY 13.

Station Notes

FIRST OBSERVED 1985.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.662 12B = -89.659 09 = -89.577 03 = -89.426

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MENDOTA_ST_PETERS_CATH_SPIRE-AM6925-3NW-01AUG2023.jpg	NW	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MENDOTA_ST_PETERS_CATH_SPIRE-AM6925-2-01AUG2023.jpg		Aug 1, 2023
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7487.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7487.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MIESVILLE CATH CH SPIRE

NGS Name: MIESVILLE CATH CH SPIRE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

	<u>Reference</u>		<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>
SE	11	113 N	17 W	443603.75	924847.50

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2022	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SPIRE	MNDT

Description: (1990)

Stamping:

IN MIESVILLE, AT THE NORTHWEST CORNER OF THE JUNCTION OF TRUNK HIGHWAY 61 AND NICOLAS AVENUE.

Station Notes

CHURCH OF SAINT JOSEPH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.086 12B = -97.077 09 = -97.008 03 = -96.883

* No Horizontal Positions in the Database *

<u>Station Photos</u>		<u>Dir</u>	<u>Date</u>
<u>Type</u>	<u>File Name</u>		
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MIESVILLE_CATH_CH_SPIRE-3W-29SEP2022.jpg	W	Sep 29, 2022
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7488.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7488.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MINNEAPOLIS WAAS CORS L1 PHASE

NGS Name: MINNEAPOLIS WAAS CORS L1 PHASE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9156](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	114 N	19 W	443814.84	930907.47		A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2007	2022	UNKNOWN	Horz=YES Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	NGS

Description: (2007)

Stamping:

IN FARMINGTON. THE L1 FREQUENCY PHASE CENTER OF GPS ANTENNA ATTACHED TO THE TOP OF THE FEDERAL AVIATION ADMINISTRATION AIR ROUTE CONTROL BUILDING. 4000.0 FEET (0.75 MILE) WEST OF THE JUNCTION CHIPPENDALE AVENUE WEST AND SPRUCE STREET IN FARMINGTON, 183.0 FEET SOUTH ON SPRUCE STREET.

Station Notes

DATE INSTALLED: 2007-06-07 DATE REMOVED:
 ANTENNA TYPE: MPL_WAAS_2225NW SERIAL NUMBER: N/A

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.290 12B = -92.296 09 = -92.241 03 = -92.024

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 38 14. 84005	93 09 07. 46680	542846. 663	160387. 325	165459. 994	48886. 154	263. 610	A	2011	CORS297
NAD83 (2007)	44 38 14. 84043	93 09 07. 46755	542846. 609	160387. 363	165459. 977	48886. 166	263. 619	A	2002	CORS211
NAD83 (1996)	44 38 14. 84041	93 09 07. 46753	542846. 610	160387. 361	165459. 978	48886. 166	263. 639	C	2007	GPS2364

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MINNEAPOLIS_WAAS_CORS_L1_PHASE-DE9156-3S-04NOV2022.jpg	S	Nov 4, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MINNEAPOLIS_WAAS_CORS_L1_PHASE-DE9156-2-04NOV2022.jpg		Nov 4, 2022
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_53253.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53253.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MINNEAPOLIS WAAS CORS L1PC2

NGS Name: MINNEAPOLIS WAAS CORS L1 PHASE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DF8962](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	31	114 N	19 W	443814.84	930907.47		A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2002	2022	DESTROYED	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	NGS

Description: (2005)

Stamping:

IN FARMINGTON, 4000.0 FEET WEST OF THE JUNCTION OF CHIPPENDALE AVENUE AND SPRUCE STREET. ANTENNA REPLACED IN 2005.

Station Notes

DATE INSTALLED: 2002-11-05 DATE REMOVED: 2003-05-05.
 ANTENNA TYPE: MPL_WAAS_2224NW SERIAL NUMBER: N/A

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.290 12B = -92.296 09 = -92.241 03 = -92.024

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 38 14. 84005	93 09 07. 46680	542846. 663	160387. 325	165459. 994	48886. 154	263. 610	A	2011	CORS297
NAD83 (2007)	44 38 14. 84043	93 09 07. 46755	542846. 609	160387. 363	165459. 977	48886. 166	263. 619	A	2002	CORS211

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MINNEAPOLIS_WAAS_CORS_L1_PHASE-DF8962-3N-24OCT2006.jpg	N	Oct 24, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MINNEAPOLIS_WAAS_CORS_L1_PHASE-DF8962-2-24OCT2006.jpg		Oct 24, 2006

Disk:

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_84973.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_84973.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MINNEAPOLIS WAAS CORS L1PC3

NGS Name: MINNEAPOLIS WAAS CORS L1 PHASE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DI8137](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	114 N	19 W	443814.84	930907.47		A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2022	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	NGS

Description: (2007)

Stamping:

IN FARMINGTON, 4000.0 FEET WEST OF THE JUNCTION OF CHIPPENDALE AVENUE AND SPRUCE STREET. ANTENNA REPLACED IN 2007.

Station Notes

DATE INSTALLED: 2003-05-06 DATE REMOVED: 2007-06-07.
 ANTENNA TYPE: NOV_WAAS_600 SERIAL NUMBER: N/A

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.290 12B = -92.296 09 = -92.241 03 = -92.024

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 38 14. 84005	93 09 07. 46680	542846. 663	160387. 325	165459. 994	48886. 154	263. 610	A	2011	CORS297
NAD83 (2007)	44 38 14. 84043	93 09 07. 46755	542846. 609	160387. 363	165459. 977	48886. 166	263. 619	A	2002	CORS211

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_84975.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_84975.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS APVY APPLE VALLEY ARP

NGS Name: APPLE VALLEY CORS ARP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM5970](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	
SW	27	115 N	20 W	
	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
	444358.51	931234.94	3	A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2018	GOOD	Horz=YES Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2012)

Stamping:

IN APPLE VALLEY, 0.25 MILE EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF CEDAR AVENUE AND COUNTY ROAD 23 IN APPLE VALLEY, THEN 0.05 MILE NORTH ON GARRET AVENUE, THEN 0.10 MILE NORTHEAST ON GARRET AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ON A FRONTAGE ROAD TO A DAKOTA COUNTY GOVERNMENT BUILDING, ATTACHED TO THE ROOF ON THE WEST SIDE OF BUILDING IS TOP OF GPS ANTENNA MOUNT.

Station Notes

THE NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNAV. THE STATION WAS BUILT IN 2003 BUT WAS NOT DEEMED OPERATIONAL UNTIL 2009.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.420 09 = -90.357 03 = -90.147

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 58. 51366	93 12 34. 93829	527798. 486	195168. 668	160873. 300	59487. 529	280. 471				2021	GPS3446
NAD83 (2007)	44 43 58. 51360	93 12 34. 93926	527798. 417	195168. 662	160873. 279	59487. 527	280. 449	A			2011	CORS279
NAD83 (1996)	44 43 58. 51362	93 12 34. 93904	527798. 432	195168. 664	160873. 284	59487. 528	280. 412	B			2006	HMNCORS

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_ARP-DM5970-3W-30SEP2004.jpg	W	Sep 30, 2004
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_ARP-DM5970-2-04AUG2006.jpg		Aug 4, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_ARP-DM5970-1-04AUG2006.jpg		Aug 4, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_52104.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_52104.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS APVY APPLE VALLEY L1PC1

NGS Name: APPLE VALLEY CORS L1 PHASE CEN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [!93604](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
<u>1/4</u> SW	<u>Sec</u> 27	<u>Twp</u> 115 N	<u>Rng</u> 20 W	
	444358.51	931234.94		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2006	DESTROYED	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2012)

Stamping:

0.25 MILES EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND CEDAR AVENUE (COUNTY ROAD 23) IN APPLE VALLEY, THEN 0.05 MILE NORTH ON GARRET AVENUE, THEN 0.10 MILE NORTHEAST ON GARRET AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ON A FRONTAGE ROAD, TO THE DAKOTA COUNTY GOVERNMENT BUILDING, ATTACHED TO THE ROOF ON THE WEST SIDE OF THE BUILDING, ANTENNA IS PART NUMBER TRM41249-00 DC 4420, SERIAL NUMBER 12481390.

Station Notes

THE NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNAV.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.420 09 = -90.357 03 = -90.147

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-!93604-3N-04AUG2006.jpg	N	Aug 4, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-!93604-2-04AUG2006.jpg		Aug 4, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-!93604-1-04AUG2006.jpg		Aug 4, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93604.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93604.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS APVY APPLE VALLEY L1PC2

NGS Name: APPLE VALLEY CORS L1 PHASE CEN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [!95628](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	20 W	444358.51	931234.94		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2008	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2012)

Stamping:

0.25 MILES EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND CEDAR AVENUE (COUNTY ROAD 23) IN APPLE VALLEY, THEN 0.05 MILE NORTH ON GARRET AVENUE, THEN 0.10 MILE NORTHEAST ON GARRET AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ON A FRONTAGE ROAD, TO THE DAKOTA COUNTY GOVERNMENT BUILDING, ATTACHED TO THE ROOF ON THE WEST SIDE OF THE BUILDING. THE STATION IS A ZEPHYR GEODETIC MODEL 2 ANTENNA TRM55971.00 SERIAL NUMBER 30213905.

Station Notes

THE NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNAV.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.420 09 = -90.357 03 = -90.147

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-!95628-3S-04AUG2006.jpg	S	Aug 4, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-!95628-2-10OCT2006.jpg		Oct 10, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-!95628-1-05OCT2006.jpg		Oct 5, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95628.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95628.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS APVY APPLE VALLEY L1PC3

NGS Name: APPLE VALLEY CORS L1 PHASE CEN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [!95629](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	20 W	444358.51	931234.94		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2008	2009	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2012)

Stamping:

0.25 MILE EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND CEDAR AVENUE (COUNTY ROAD 23) IN APPLE VALLEY, THEN 0.05 MILE NORTH ON GARRET AVENUE, THEN 0.10 MILE NORTHEAST ON GARRET AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ON A FRONTAGE ROAD, TO THE DAKOTA COUNTY GOVERNMENT BUILDING, ATTACHED TO THE ROOF ON THE WEST SIDE OF THE BUILDING. THE STATION IS A ZEPHYR GEODETIC LF MODEL 2 ANTENNA TRM 57971.00 SERIAL NUMBER 31052563.

Station Notes

THE NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNAV.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.420 09 = -90.357 03 = -90.147

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-3N-04AUG2006.jpg	N	Aug 4, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-2-04AUG2006.jpg		Aug 4, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-!95629-1-02DEC2008.jpg		Dec 2, 2008

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95629.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95629.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS APVY APPLE VALLEY L1PC4

NGS Name: APPLE VALLEY CORS L1 PHASE CEN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DM5971](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	115 N	20 W	444358.51	931234.94		A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2009	GOOD	Horz=YES Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2012)

Stamping:

0.25 MILE EAST ALONG COUNTY ROAD 42 FROM THE JUNCTION OF COUNTY ROAD 42 AND CEDAR AVENUE (COUNTY ROAD 23) IN APPLE VALLEY, THEN 0.05 MILE NORTH ON GARRET AVENUE, THEN 0.10 MILE NORTHEAST ON GARRET AVENUE, THEN 0.05 MILE SOUTHEAST AND SOUTH ON A FRONTAGE ROAD, TO THE DAKOTA COUNTY GOVERNMENT BUILDING, ATTACHED TO THE ROOF ON THE WEST SIDE OF THE BUILDING. STATION MNCORS APVY APPLE VALLEY L1PC4 IS A ZEPHYR GEODETIC LF MODEL 2 ANTENNA TRM57971.00 SERIAL NUMBER 31052655.

Station Notes

THE NATIONAL GEODETIC SURVEY (NGS) SITE ID IS MNAV.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.420 09 = -90.357 03 = -90.147

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 58.51374	93 12 34.93820	527798.493	195168.676	160873.302	59487.532	280.525	A	2011	CORS617		
NAD83 (2007)	44 43 58.51363	93 12 34.93927	527798.416	195168.665	160873.279	59487.528	280.516	A	2011	CORS279		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-DM5971-3N-04AUG2006.jpg	N	Aug 4, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-DM5971-2-03DEC2008.jpg		Dec 3, 2008
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/APPLE_VALLEY_CORS_L1_PHASE_CEN-DM5971-1-29DEC2009.jpg		Dec 29, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95630.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95630.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS EGAN EAGAN ARP

NGS Name: EAGAN CORS ARP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [!89366](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	17	27 N	23 W	444935.59	931202.86		A

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2024	DESTROYED	Horz=YES Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2009)

Stamping:

IN EAGAN, 1.3 MILES WEST ALONG YANKEE DOODLE ROAD FROM THE JUNCTION OF YANKEE DOODLE ROAD AND INTERSTATE HIGHWAY 35 EAST IN EAGAN, THEN 0.7 MILE SOUTH ON SIBLEY MEMORIAL HIGHWAY, LOCATED ON THE MINNESOTA VALLEY TRANSIT AUTHORITY BUS GARAGE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.698 12B = -89.698 09 = -89.606 03 = -89.452

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 49 35.59277	93 12 02.85933	530065.761	229310.899	161564.367	69894.102	222.688	A	2015	HMNCORS
NAD83 (1996)	44 49 35.59245	93 12 02.85979	530065.728	229310.866	161564.357	69894.092	222.751	C	2017	HMNCORS

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN_CORS_ARP-!89366-3SW-03MAR2010.jpg	SW	Mar 3, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN_CORS_ARP-!89366-2-03MAR2010.jpg		Mar 3, 2010
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN_CORS_ARP-!89366-1-03MAR2010.jpg		Mar 3, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_89366.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_89366.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MNCORS EGAN EAGAN L1PC1

NGS Name: EAGAN CORS L1 PHASE CENTER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [I95794](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	17	27 N	23 W	444935.56	931202.82		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2009	2024	DESTROYED	Horz=YES Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	MNDT

Description: (2012)

Stamping:

IN EAGAN, 1.3 MILES WEST ALONG YANKEE DOODLE ROAD FROM THE JUNCTION OF YANKEE DOODLE ROAD AND INTERSTATE HIGHWAY 35 EAST IN EAGAN, THEN 0.7 MILE SOUTH ON SIBLEY MEMORIAL HIGHWAY, LOCATED ON THE MINNESOTA VALLEY TRANSIT AUTHORITY BUS GARAGE. STATION MNCORS EGAN EAGAN L1PC1 IS IN ZEPHYR GEODETIC LF MODEL 2 ANTENNA SERIAL NUMBER 31051273.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.698 12B = -89.698 09 = -89.606 03 = -89.452

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN_CORS_L1_PHASE_CENTER-I95794-3S-03MAR2010.jpg	S	Mar 3, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN_CORS_L1_PHASE_CENTER-I95794-2-03MAR2010.jpg		Mar 3, 2010
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/EAGAN_CORS_L1_PHASE_CENTER-I95794-1-03MAR2010.jpg		Mar 3, 2010

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95794.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95794.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MOTEL

NGS Name: MOTEL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4929](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	28 N	23 W	445235.83	930945.66	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** MOTEL 2011

IN MENDOTA HEIGHTS, 0.22 MILE WEST THEN NORTH ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55 IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 13 MILEPOINT 107.35, 109.9 FEET EAST OF TRUNK HIGHWAY 13, 104.3 FEET NORTH OF VICTORY AVENUE, 90.2 FEET NORTH OF A FIRE HYDRANT, 57.5 FEET SOUTHEAST OF A POWER POLE, 1.5 FEET SOUTH OF A WITNESS POST.

Station Notes

A METRO EAST SURVEY CREW FOUND ON 12/06/2022 THAT STATION MOTEL (GSID 95074) ALONG TH13 IN DAKOTA COUNTY IS GONE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	894.785	0.016	272.731	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.728 12B = -89.728 09 = -89.645 03 = -89.495

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 35.82623	93 09 45.66253	539919.807	247581.417	164567.886	75462.967	245.372			2014	GPS2981	
NAD83 (1996)	44 52 35.82594	93 09 45.66280	539919.787	247581.387	164567.880	75462.958	245.450	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MOTEL-DO4929-3E-01AUG2023.jpg	E	Aug 1, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MOTEL-DO4929-2-28NOV2011.jpg		Nov 28, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MOTEL-DO4929-1-28NOV2011.jpg		Nov 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95074.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95074.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MOUNT

NGS Name: MOUNT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0979](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	30	115 N	18 W	444403.31	930204.72	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 42 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** MOUNT 2015

IN ROSEMOUNT, 0.3 MILE SOUTH ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 52 MILEPOINT 115.25, 36.1 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 52, 0.3 MILE SOUTH OF COUNTY ROAD 42, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: COATES MNDT RM 2 - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	922.761	0.016	281.258	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.447 12B = -92.441 09 = -92.385 03 = -92.205

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 03.30829	93 02 04.71735	573293.772	195762.922	174740.291	59668.658	253.073			2016	GPS3146	
NAD83 (1996)	44 44 03.30817	93 02 04.71774	573293.744	195762.910	174740.283	59668.654	253.135	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MOUNT-DQ0979-3E-16AUG2023.jpg	E	Aug 16, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MOUNT-DQ0979-2-16AUG2023.jpg		Aug 16, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MOUNT-DQ0979-1-04MAY2015.jpg		May 4, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103422.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103422.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: MUNCH

NGS Name: MUNCH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0992](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	112 N	18 W	443235.86	925947.98	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** MUNCH 2015

1.55 MILES NORTH-NORTHEAST OF RANDOLPH, 1.35 MILE NORTHEAST ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 88 IN RANDOLPH, AT TRUNK HIGHWAY 56 MILEPOINT 94.75, 96.4 FEET NORTHWEST OF TRUNK HIGHWAY 56, 42.6 FEET SOUTHWEST OF COUNTY ROAD 86 (280TH STREET EAST), 1.5 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: PUMP - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	885.891	0.016	270.020	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.006 12B = -95.003 09 = -94.947 03 = -94.816

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 35.86280	92 59 47.98034	583438.434	126177.711	177832.390	38459.043	241.061	2016	C	2016	GPS3146	
NAD83 (1996)	44 32 35.86265	92 59 47.98070	583438.408	126177.695	177832.382	38459.039	241.120	2016	C	2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MUNCH-DQ0992-3NW-29APR2015.jpg	NW	Apr 29, 2015
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MUNCH-DQ0992-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MUNCH-DQ0992-1-29APR2015.jpg		Apr 29, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103423.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103423.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 10 027 22 MN037

NGS Name: N 10 027 22

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	10	27 N	23 W	445052.66	930925.14		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2023	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1980)

Stamping:

AT THE JUNCTION OF CLAYTON AVENUE EAST AND WARD LANE (70TH STREET), IN THE CENTER OF LOAN OAK ROAD, 84.8 FEET NORTHEAST OF THE NORTHEAST CORNER OF A FIRE STATION, 138.6 FEET SOUTHEAST OF THE SOUTHWEST CORNER OF A HOUSE, 69.2 FEET SOUTHWEST OF A POWER POLE, 50.7 FEET NORTHWEST OF A FIRE HYDRANT, 44.9 FEET WEST-SOUTHWEST OF NAIL IN THE SOUTH END OF A METAL CULVERT, 37.8 FEET EAST-SOUTHEAST OF NAIL IN THE SOUTH END OF A METAL CULVERT.

Station Notes

DAKOTA COUNTY CAP AND NAIL IN PLACE IN THE CENTER MEDIAN OF LONE OAK ROAD, ONE PHOTO TAKEN OF COUNTY MARK. (11-21-2006).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.908 12B = -89.908 09 = -89.832 03 = -89.665

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 50 52.66200	93 09 25.13900	541418.268	237135.717	165024.618	72279.111			C	1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_10_027_22-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_10_027_22-1-21NOV2006.jpg		Nov 21, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7489.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7489.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 24 027 23 MN037

NGS Name: N 24 027 23

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	24	27 N	23 W	444908.36	930658.64		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2014)

Stamping:

8.0 FEET SOUTH OF THE CENTER OF WESCOTT ROAD, 52.7 FEET NORTHEAST OF A CORNER FENCE POST, 54.6 FEET SOUTHEAST OF A POWER POLE, 32.1 FEET SOUTHWEST OF NAIL IN A CURB, 26.6 FEET NORTH OF NAIL IN A CURB, 73.6 FEET SOUTHEAST OF NAIL IN A CURB.

Station Notes

THE ROAD HAS BEEN WIDENED AND REPAIRED, THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.492 12B = -90.495 09 = -90.420 03 = -90.239

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 49 08.35740	93 06 58.63910	551999.441	226595.085	168249.766	69066.320			C	1988	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7490.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7490.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 24 027 23 MN037 RESET

NGS Name: N 24 027 23 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	24	27 N	23 W	444908.36	930658.64		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2023	GOOD	Horz=NO Vert=YES	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2023)

Stamping:

8.0 FEET SOUTH OF THE CENTER OF WESCOTT ROAD, 52.7 FEET NORTHEAST OF A CORNER FENCE POST, 54.6 FEET SOUTHEAST OF A POWER POLE, 32.1 FEET SOUTHWEST OF NAIL IN A CURB, 26.6 FEET NORTH OF NAIL IN A CURB, 73.6 FEET SOUTHEAST OF NAIL IN A CURB.

* No 1st or 2nd Order Vertical Positions in the Database *

No Geoid Separations Available

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_24_027_23_RESET-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_24_027_23_RESET-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_24_027_23_RESET-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_111258.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_111258.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 26 115 20 MN037

NGS Name: N 26 115 20

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	26	115 N	20 W	444447.31	931113.23		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SEE DESCRIPTION	MN-037

Description: (1999)

Stamping:

IN APPLE VALLEY, IN CENTER OF THE JUNCTION OF COUNTY ROAD 40 (140TH STREET) AND JOHNNY CAKE RIDGE ROAD, COUNTY RAN LEVELS TO STATION IN 1992.

Station Notes

CORNER EXISTS, BURIED UNDER ASPHALT DIDN'T DIG IT UP BUT HAVE GOOD SOUND WITH LOCATOR AT TIE AND REFERENCE LOCATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.502 12B = -90.505 09 = -90.436 03 = -90.229

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 44 47.31290	93 11 13.23015	533689.310	200119.541	162668.827	60996.558			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7491.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7491.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 31 115 19 MN037

NGS Name: N 31 115 19

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	30	115 N	19 W	444354.70	930847.89			1988	2023	NOT FOUND	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SURVEY DISK	MN-037

Description: (2014)

Stamping:

IN ROSEMOUNT, 1.0 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF COUNTY ROAD 42 AND SHANNON PARKWAY, 15.0 FEET EAST OF A WOOD FENCE, 8.5 FEET NORTHWEST OF A NAIL IN A CURB JOINT, 28.4 FEET SOUTH OF A POWER POLE NUMBER 275F14, 34.2 FEET NORTHEAST OF THE CONCRETE BASE OF A LIGHT POLE, 9.0 FEET SOUTHEAST OF UTILITY BOX NUMBER 1, 11.0 FEET SOUTHEAST OF UTILITY BOX NUMBER 2, THE ROD DEPTH IS UNKNOWN.

Station Notes

DUG ABOUT 2.0 FEET DEEP AT TIE LOCATION AND REFERENCE LOCATION UNABLE TO FIND THE MONUMENT. NO NAIL IN THE CURB JOINT, LIGHT POLE DOESN'T FIT TIE LOCATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.158 12B = -91.158 09 = -91.092 03 = -90.886

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 54.68973	93 08 47.88637	544190.673	194809.266	165869.649	59377.983			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_31_115_19-3W-25OCT2006.jpg	W	Oct 25, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_31_115_19-2-25OCT2006.jpg		Oct 25, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/N_31_115_19-1-25OCT2006.jpg		Oct 25, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7492.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7492.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: N 35 115 20 MN037

NGS Name: N 35 115 20

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	115 N	20 W	444354.88	931113.46		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2010) **Stamping:**
 IN APPLE VALLEY, IN THE CENTER OF THE JUNCTION OF COUNTY ROAD 42 AND JOHNNY CAKE RIDGE ROAD.

Station Notes
 THE COUNTY RAN LEVELS TO STATION IN 1992. THE MONUMENT UNDER ASPHALT, BUT EXIST, DIDN'T DIG IT UP.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.689 12B = -90.689 09 = -90.623 03 = -90.413

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 54.88873	93 11 13.46520	533680.795	194810.085	162666.232	59378.233			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7493.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7493.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NE 10 114 19 MN037

NGS Name: NE 10 114 19

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	10	114 N	19 W	444210.19	930431.20		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SEE DESCRIPTION	MN-037

Description: (1992)

Stamping:

2.25 MILES SOUTHWEST OF COATES, IN EMPIRE TOWNSHIP, 3.0 MILES EAST ALONG 170TH STREET FROM THE JUNCTION OF 170TH STREET AND TRUNK HIGHWAY 3, IN CENTER OF 170TH STREET, 7.0 FEET WEST OF THE CENTER OF ANNETTE AVENUE, 110.2 FEET NORTHWEST OF 30.0 INCH DIAMETER COTTONWOOD TREE, 38.9 FEET NORTHEAST OF A POWER POLE, 70.4 FEET SOUTH OF A GATE POST, 47.3 FEET SOUTHWEST OF A GATE POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.411 12B = -92.405 09 = -92.346 03 = -92.149

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 42 10.18436	93 04 31.19126	562753.733	184272.026	171527.681	56166.226			C	1992	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_10_114_19-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_10_114_19-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_10_114_19-1-06SEP2011.jpg		Sep 6, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7494.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7494.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NE 32 115 20 MN037

NGS Name: NE 32 115 20

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	32	115 N	20 W	444354.85	931417.23		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	NOT FOUND	Horz=YES Vert=YES	YES		RECESSED 2 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011)

Stamping:

AT THE JUNCTION OF GARDEN VIEW AVENUE AND COUNTY ROAD 42, IN CENTER OF COUNTY ROAD 42 (MEDIAN) AND IN LINE WITH EAST EDGE OF GARDEN VIEW AVENUE, 60.8 FEET NORTH OF A SPIKE IN A CURB JOINT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.115 12B = -90.111 09 = -90.052 03 = -89.852

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 54.85100	93 14 17.22980	520414.189	194789.309	158622.562	59371.900			C	1988	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_32_115_20-3E-27SEP2011.jpg	E	Sep 27, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_32_115_20-2-27SEP2011.jpg		Sep 27, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_32_115_20-1-27SEP2011.jpg		Sep 27, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7495.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7495.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NE 33 115 18 MN037

NGS Name: NE 33 115 18

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	33	115 N	18 W	444352.95	925828.47		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 7 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SURVEY DISK	MN-037

Description: (2007)

Stamping:

IN THE SOUTHEAST CORNER OF ROSEMOUNT, 3.0 MILES EAST OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55, THEN 0.75 MILE SOUTH ON FISCHER AVENUE, AT THE JUNCTION OF FISCHER AVENUE AND 150TH STREET, 72.5 FEET SOUTH-SOUTHWEST OF A POWER POLE, 70.5 WEST-SOUTHWEST OF A POWER POLE, 37.0 FEET NORTHWEST OF A POWER POLE, 43.5 NORTHEAST OF A POWER POLE, 27.7 FEET NORTHWEST OF A WITNESS POST. STATION NE 33 115 18 MN037 IS AT CENTERLINE OF THE INTERSECTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.320 12B = -93.317 09 = -93.264 03 = -93.090

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 43 52.94440	92 58 28.46591	588909.400	194773.118	179499.944	59366.965		C	1990	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_33_115_18-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_33_115_18-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_33_115_18-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7496.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7496.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NE 35 027 24 MN037

NGS Name: NE 35 027 24

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>				
NE	35	27 N	24 W	444725.22	931452.90						
<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>				
1980	2023	DESTROYED	Horz=YES Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON				

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SEE DESCRIPTION	MN-037

Description: (1980)

Stamping:

AT THE JUNCTION OF WEST RIVER HILLS DRIVE AND COUNTY ROAD 32, IN THE CENTER OF WEST RIVER HILLS DRIVE, 49.0 FEET SOUTH OF COUNTY ROAD 32, 94.5 FEET SOUTHWEST OF A FIRE HYDRANT, 51.2 FEET NORTHWEST OF A NAIL IN A CURB JOINT, 42.4 FEET EAST OF A POWER POLE. THE MONUMENT IS A CAST IRON SECTION CORNER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.521 12B = -89.524 09 = -89.458 03 = -89.271

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 47 25.22060	93 14 52.90020	517821.058	216092.957	157832.174	65865.265		C	1988	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_35_027_24-3NE-20JUL2023.jpg	NE	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_35_027_24-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NE_35_027_24-1-05OCT2011.jpg		Oct 5, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7497.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7497.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NEILL

NGS Name: NEILL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1102](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	2	114 N	17 W	444210.54	924948.18	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 73 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** NEILL 2015

2.0 MILES SOUTHEAST OF HASTINGS, 1.5 MILES SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 316 MILEPOINT 8.3, 33.2 FEET NORTHEAST OF TRUNK HIGHWAY 316 FOG LINE, 0.15 MILE SOUTHEAST OF MICHAEL AVENUE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: TUTTLE - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	825.333	0.016	251.562	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.194 12B = -96.184 09 = -96.132 03 = -95.964

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 42 10.53948	92 49 48.18179	626532.398	184593.065	190967.457	56264.079	222.240	C	2016	GPS3147		
NAD83 (1996)	44 42 10.53941	92 49 48.18224	626532.365	184593.057	190967.447	56264.076	222.303	C	2016	HMTES		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NEILL-DQ1102-3NE-27SEP2022.jpg	NE	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NEILL-DQ1102-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NEILL-DQ1102-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103424.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103424.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NEW TRIER

NGS Name: NEW TRIER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4507](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	11	113 N	18 W	443610.70	925607.50		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	2022	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SPIRE	MNDT

Description: (2011) **Stamping:**
 IN NEW TRIER, STEEPLE OF ST. MARY'S CHURCH.

Station Notes
 THE SET DATE IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.498 12B = -95.482 09 = -95.426 03 = -95.282

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NEW_TRIER-CJ4507-3N-30SEP2022.jpg	N	Sep 30, 2022
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7498.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7498.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NEW TRIER WATER TANK

NGS Name: NEW TRIER WATER TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	11	113 N	18 W	443607.20	925611.90		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2022	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	MNDT

Description: (1990) **Stamping:**
 IN THE WEST PART OF NEW TRIER, 50.0 FEET SOUTH OF 239TH STREET, 300.0 FEET WEST OF HINTON AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.485 12B = -95.472 09 = -95.416 03 = -95.269

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NEW_TRIER_WATER_TANK-3NE-30SEP2022.jpg	NE	Sep 30, 2022
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7499.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7499.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NICOLAI MN037

NGS Name: NICOLAI

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5069](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	23	113 N	17 W	443441.74	924846.43		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** NICOLAI 1991

1.5 MILES SOUTH OF MIESVILLE, 1.5 MILES SOUTH ALONG COUNTY ROAD 91 FROM THE JUNCTION OF COUNTY ROAD 91 AND TRUNK HIGHWAY 61, 36.0 FEET WEST OF COUNTY ROAD 91, 15.0 FEET SOUTH OF A FIELD ENTRANCE, 58.0 FEET NORTH-NORTHEAST OF A POWER POLE, 9.0 FEET NORTHEAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.182 12B = -97.168 09 = -97.093 03 = -96.985

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 34 41.73639	92 48 46.43284	631273.608	139167.742	192412.580	42418.413	254.138		2016	GPS3147
NAD83 (2007)	44 34 41.73657	92 48 46.43363	631273.550	139167.760	192412.563	42418.418	254.155		2007	GPS2300
NAD83 (1996)	44 34 41.73605	92 48 46.43277	631273.613	139167.708	192412.582	42418.402	254.207	C	2016	HMTES
NAD83 (1986)	44 34 41.72853	92 48 46.43191	631273.678	139166.946	192412.602	42418.170		C	1992	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NICOLAI-AC5069-3W-29SEP2022.jpg	W	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NICOLAI-AC5069-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NICOLAI-AC5069-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7500.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7500.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NIKE MN037

NGS Name: NIKE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	22	113 N	19 W	443421.23	930445.40		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2011	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** NIKE 1991

4.5 MILES SOUTHWEST OF HAMPTON, 4.5 MILES NORTHWEST OF RANDOLPH, IN CASTLE ROCK TOWNSHIP, 1.2 MILES WEST ALONG COUNTY ROAD 80S (260TH STREET) FROM THE JUNCTION OF COUNTY ROAD 80S AND COUNTY ROAD 79 (BLAINE AVENUE), 17.0 FEET NORTH OF COUNTY ROAD 80S, IN FRONT OF OLD NIKE MISSILE BASE, 22.0 FEET SOUTHWEST OF A POWER POLE.

Station Notes

THE ROD IS BENT AT 90.0 DEGREES TOWARDS THE WEST. TOOK PHOTO OF THE SITUATION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.694 12B = -93.704 09 = -93.651 03 = -93.487

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 34 21.22452	93 04 45.39354	561866.366	136774.507	171257.211	41688.953			C	1992	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7501.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7501.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NININGER MNDT

NGS Name: NININGER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2460](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	19	115 N	17 W	444444.50	925407.98		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** NININGER 1975

2.5 MILES NORTH-NORTHWEST OF HASTINGS, 12.5 FEET SOUTH OF A ROAD, 22.4 FEET NORTHWEST OF A TELEPHONE POLE, 121.2 FEET SOUTHEAST OF A POWER POLE, 9.8 FEET NORTH OF A WITNESS POST, 77.48 FEET WEST OF LININGER MNDT RM 1.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.301 12B = -94.327 09 = -94.311 03 = -94.075

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 44 44.49777	92 54 07.97503	607688.562	200081.652	185223.844	60985.009	253.358	2	1999	17648
NAD83 (1986)	44 44 44.48940	92 54 07.97179	607688.800	200080.805	185223.917	60984.751		2	1986	17289
NAD27	44 44 44.60777	92 54 07.23056						2	1981	15750

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7502.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7502.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NININGER MNDT AZ MK

NGS Name: NININGER AZ MK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2459](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	19	115 N	17 W	444444.89	925324.78		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 12 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	MNDT

Description: (2011) **Stamping:** NININGER 1975

2.5 MILES NORTH-NORTHWEST OF HASTINGS, 11.0 FEET EAST OF A FIELD ENTRANCE, 21.0 FEET NORTH OF A ROAD, 40.0 FEET WEST OF A POWER POLE, 11.3 FEET SOUTH OF A FENCE, 1.0 FOOT NORTH OF THE BACK OF A CURB, 21.8 FEET NORTH OF FEATHERSTONE ROAD, 39.8 FEET SOUTHWEST OF A POWER POLE, 11.3 FEET SOUTH OF A WITNESS POST, AT THE HASTINGS HIGH SCHOOL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.524 12B = -94.550 09 = -94.534 03 = -94.301

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 44 44.88655	92 53 24.78649	610805.508	200137.121	186173.891	61001.916	246.592	3	1999	17648		
NAD83 (1986)	44 44 44.87814	92 53 24.78331	610805.742	200136.270	186173.963	61001.657		3	1986	17289		
NAD27	44 44 44.99625	92 53 24.04343						3	1981	15750		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NININGER_AZ_MK-PP2459-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NININGER_AZ_MK-PP2459-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NININGER_AZ_MK-PP2459-1-13SEP2011.jpg		Sep 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7503.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7503.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NININGER MNDT RM 1

NGS Name: NININGER RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4510](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	19	115 N	17 W	444444.00	925408.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1975	2001	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2010) **Stamping:** NININGER NO 1 1975

THE STATION IS 14.5 FEET SOUTH OF THE CENTER OF THE ROAD, 61.7 FEET EAST OF A TELEPHONE POLE, 137.5 FEET SOUTHWEST OF A POWER POLE, AND 78.4 FEET EAST OF A STEEL WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.304 12B = -94.331 09 = -94.311 03 = -94.078

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66663.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66663.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NORTHFIELD KYMN RADIO MAST

NGS Name: NORTHFIELD KYMN RADIO MAST

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	21	112 N	19 W	442923.11	930617.74		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2022	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	RADIO/TV MAST	MNDT

Description: (2007) **Stamping:**
 2.5 MILES NORTHEAST OF NORTHFIELD, 300.0 FEET NORTH OF 320TH STREET WEST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.760 12B = -93.786 09 = -93.733 03 = -93.592

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NORTHFIELD_KYMN_RADIO_MAST-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:			
Disk:			Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_26279.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_26279.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NORTHFIELD RAD STA WCAL TOWER

NGS Name: WCAL RADIO TOWER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2748](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/1072
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	26	112 N	20 W	442835.28	931106.73		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2022	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	RADIO/TV TOWER	NGS

Description: (2010)

Stamping:

1.8 MILES NORTH OF NORTHFIELD, THEN 1.0 MILE WEST ALONG GREENVALE AVENUE WEST FROM THE JUNCTION OF GREENVALE AVENUE WEST AND TRUNK HIGHWAY 3, THEN 0.8 MILE NORTH ALONG CEDAR AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.867 12B = -92.900 09 = -92.851 03 = -92.690

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 28 35.28342	93 11 06.72938	534317.433	101676.798	162860.279	30991.150		4	1999	17648
NAD83 (1986)	44 28 35.27433	93 11 06.72765	534317.560	101675.877	162860.318	30990.869		4	1986	17289
NAD27	44 28 35.39668	93 11 05.94505						4	1977	16014

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WCAL_RADIO_TOWER-PP2748-3N-18OCT2006.jpg	N	Oct 18, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7504.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7504.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NSPSUB MN037

NGS Name: NSPSUB

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5070](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	27 N	22 W	444750.91	930354.49		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2000) **Stamping:** NSPSUB 1988

IN INVER GROVE HEIGHTS, 0.4 MILE EAST OF THE JUNCTION OF COUNTY ROAD 71 (RICH VALLEY BOULEVARD) AND COUNTY ROAD 73 (105TH STREET EAST), AT THE SOUTHEAST CORNER OF RICH VALLEY PARK, 67.0 FEET NORTH OF COUNTY ROAD 73, 51.0 FEET WEST-NORTHWEST OF A GAS WARNING POST.

Station Notes

DESTROYED, FOUND THE DISK OFF THE ROD, 1 PHOTO OF THE ROD WITH NO DISK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.279 12B = -91.270 09 = -91.220 03 = -91.040

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 50.91435	93 03 54.49124	565297.963	218788.543	172303.164	66686.881	242.491			2012	GPS2800	
NAD83 (2007)	44 47 50.91446	93 03 54.49208	565297.902	218788.554	172303.145	66686.885	242.518			2007	GPS2300	
NAD83 (1996)	44 47 50.91421	93 03 54.49164	565297.934	218788.529	172303.155	66686.877	242.572	C		1997	GPS805-	
NAD83 (1986)	44 47 50.90628	93 03 54.48830	565298.177	218787.728	172303.229	66686.633		C		1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NSPSUB-AC5070-1-30NOV2006.jpg		Nov 30, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7505.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7505.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NW 10 027 22 MN037

NGS Name: NW 10 027 22

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	27 N	23 W	445052.63	931001.97		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2012	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SEE DESCRIPTION	MN-037

Description: (1995)

Stamping:

AT THE CENTER OF THE JUNCTION OF COUNTY ROAD 31 AND COUNTY ROAD 26, 89.3 FEET SOUTHEAST OF A POWER POLE, 128.1 FEET SOUTHWEST OF A POWER POLE, 81.4 FEET NORTHEAST OF A GUY POLE. THE TIES FALL IN THE CENTER OF THE INTERSECTION OF COUNTY ROAD 31 AND COUNTY ROAD 26, WHICH WAS REBUILT AND WIDENED SUMMER AND FALL 2006.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.829 12B = -89.829 09 = -89.750 03 = -89.590

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 50 52.62860	93 10 01.97280	538764.431	237127.295	164215.727	72276.544			C	1988	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7506.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7506.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NW 24 027 23 MN037

NGS Name: NW 24 027 23

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	23	27 N	23 W	444908.34	930735.06		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2014)

Stamping:

IN THE CENTER OF WESCOTT ROAD AT CENTER OF A RESIDENTIAL DRIVEWAY NORTH, 61.2 FEET SOUTH-SOUTHWEST OF AN 8.0 INCH DIAMETER OAK TREE, 74.6 FEET SOUTHWEST OF A POWER POLE, 52.8 FEET NORTH-NORTHWEST OF A FENCE POST, 58.1 FEET NORTH-NORTHEAST OF A FENCE POST.

Station Notes

THE ROAD HAS BEEN REPAIRED AND WIDENED, THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.390 12B = -90.394 09 = -90.318 03 = -90.138

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 49 08. 34300	93 07 35. 05740	549374. 229	226587. 329	167449. 600	69063. 956			C	1988	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7507.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7507.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: NW 24 027 23 MN037 RESET

NGS Name: NW 24 027 23 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	23	27 N	23 W	444908.35	930735.06		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2022	2023	GOOD	Horz=NO Vert=YES	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2023)

Stamping:

IN THE CENTER OF WESCOTT ROAD AT CENTER OF A RESIDENTIAL DRIVEWAY NORTH, 61.2 FEET SOUTH-SOUTHWEST OF AN 8.0 INCH DIAMETER OAK TREE, 74.6 FEET SOUTHWEST OF A POWER POLE, 52.8 FEET NORTH-NORTHWEST OF A FENCE POST, 58.1 FEET NORTH-NORTHEAST OF A FENCE POST.

* No 1st or 2nd Order Vertical Positions in the Database *

No Geoid Separations Available

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NW_24_027_23_RESET-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NW_24_027_23_RESET-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/NW_24_027_23_RESET-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_111260.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_111260.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: OINN

NGS Name: OINN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ7239](#) [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>			
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	29	112 N	19 W	442817.36	930723.94	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 24 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** OINN 2016

2.0 MILES EAST OF NORTHFIELD, 2.3 MILES EASTERLY ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD, AT TRUNK HIGHWAY 19 MILEPOINT 178.75, 59.0 FEET NORTH OF TRUNK HIGHWAY 19, 50.0 FEET WEST OF ENTRANCE NUMBER 2683/2687, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: URKY - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	979.115	0.016	298.435	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -93.556 12B = -93.589 09 = -93.540 03 = -93.389

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/OINN-DQ7239-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/OINN-DQ7239-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/OINN-DQ7239-1-17OCT2016.jpg		Oct 17, 2016

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106523.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106523.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: OLD BAR MN037

NGS Name: OLD BAR

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5071](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	27	113 N	18 W	443359.04	925716.34	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** OLD BAR 1991

4.0 MILES SOUTHEAST OF HAMPTON, 4.25 MILES NORTHWEST OF CANNON FALLS, IN HAMPTON TOWNSHIP, 1.8 MILES NORTHWEST ALONG TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 86, IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 52 AND GOODWIN AVENUE, 90.0 FEET EAST-NORTHEAST OF NORTHBOUND TRUNK HIGHWAY 52, 72.0 FEET NORTH-NORTHEAST OF A POWER POLE, 66.0 FEET EAST OF STOP SIGN, 16.0 FEET SOUTH OF GOODWIN AVENUE, 10.0 FEET WEST OF A FIELD ROAD.

Station Pair: GOULD - DAKOTA, MN

Station Notes

DO NOT RESET WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	906.540	0.016	276.314	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.462 12B = -95.453 09 = -95.397 03 = -95.259

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 33 59.03806	92 57 16.33952	594383.941	134647.245	181168.588	41040.562	247.206			2016	GPS3146	
NAD83 (2007)	44 33 59.03819	92 57 16.34026	594383.888	134647.258	181168.571	41040.566	247.228			2007	GPS2300	
NAD83 (1996)	44 33 59.03806	92 57 16.34036	594383.881	134647.245	181168.569	41040.562	247.290	C		2016	HCOAT	
NAD83 (1986)	44 33 59.03150	92 57 16.33744	594384.093	134646.581	181168.634	41040.360		C		1992	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/OLD_BAR-AC5071-3SE-06OCT2022.jpg	SE	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/OLD_BAR-AC5071-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/OLD_BAR-AC5071-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7508.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7508.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: OLIVET MN037

NGS Name: OLIVET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	20	113 N	20 W	443513.50	931418.42		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** OLIVET 1991

5.0 MILES SOUTH OF LAKEVILLE, IN EUREKA TOWNSHIP, 1.0 MILE WEST ALONG COUNTY ROAD 80 (250TH STREET) FROM THE JUNCTION OF COUNTY ROAD 80 AND COUNTY ROAD 23 (CEDAR AVENUE), IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF COUNTY ROAD 80 AND COUNTY ROAD 17 (HIGHVIEW AVENUE), 36.0 FEET SOUTH OF COUNTY ROAD 80, 40.0 FEET WEST OF COUNTY ROAD 17, 4.0 FEET SOUTHWEST OF THE EDGE OF A GRAVEL, 12.0 FEET NORTHWEST OF THE MOUNT OLIVET RETREAT SIGN, 3.0 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.607 12B = -91.607 09 = -91.565 03 = -91.371

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 35 13. 49592	93 14 18. 42087	520378. 917	141987. 948	158611. 811	43278. 013			C	1992	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7509.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7509.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ORCHARD MN037

NGS Name: ORCHARD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	114 N	21 W	444209.84	931904.66		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1991) **Stamping:** ORCHARD 1988

500.0 FEET NORTHWEST OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND TRUNK HIGHWAY 50/COUNTY ROAD 5 THEN 0.7 MILE WEST ON 172ND STREET THEN 0.3 MILE SOUTH ON KODIAK AVENUE THEN 0.55 MILE WEST ON 175TH STREET THEN 0.5 MILE NORTH ON JUDICIAL ROAD THEN 400.0 FEET WEST ON 170TH STREET, 14.0 FEET SOUTH OF 170TH STREET, 20.0 FEET WEST-NORTHWEST OF A POWER POLE, 4.0 FEET EAST OF MAILBOXES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.557 12B = -89.550 09 = -89.498 03 = -89.304

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 42 09. 84418	93 19 04. 66560	499663. 003	184144. 586	152297. 588	56127. 382			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7510.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7510.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PARK MN037

NGS Name: PARK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	36	27 N	23 W	444642.11	930732.03		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	POOR	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT)	SURVEY DISK	MN-037

Description: (2014) **Stamping:** PARK

IN EAGAN, 1.1 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 32 (CLIFF ROAD) IN EAGAN, AT TRUNK HIGHWAY 3 MILEPOINT 35.55, THEN 0.5 MILE WEST ON 120TH STREET, THEN 0.1 MILE NORTH ON AN ENTRANCE TO EQUESTRIAN TRAIL PARKING AREA, 300.0 FEET EAST-NORTHEAST OF THE NORTHEAST CORNER OF A COUNTY HORSE TRAILER PARKING LOT, IN A GRASSY FIELD, 1.2 FEET SOUTHWEST OF A SIGNPOST.

Station Notes

THE CAP IS LOOSE, THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.800 12B = -90.797 09 = -90.735 03 = -90.541

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 46 42.10223	93 07 32.03084	549627.155	211776.683	167526.692	64549.662			C	1991	H1991	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PARK-3S-21JUL2023.jpg	S	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PARK-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PARK-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7511.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7511.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PARTNER

NGS Name: PARTNER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9207](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	115 N	20 W	444435.43	931302.53	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 4 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 17 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** PARTNER 2014

IN APPLE VALLEY, 0.8 MILE NORTH ALONG COUNTY ROAD 23 FROM THE JUNCTION OF COUNTY ROAD 23 AND COUNTY ROAD 42 IN APPLE VALLEY, 20.2 FEET EAST OF THE BACK OF A CURB OF NORTHBOUND COUNTY ROAD 23 (CEDAR AVENUE), 4.6 FEET SOUTH OF THE SOUTH END OF A FENCE, 2.5 FEET EAST OF THE EAST EDGE OF A SIDEWALK, 2.6 FEET WEST OF THE BACK OF A CURB OF A PARKING LOT, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	968.262	0.016	295.127	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.210 12B = -90.213 09 = -90.154 03 = -89.947

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 44 35.42559	93 13 02.53516	525801.648	198904.522	160264.663	60626.220	267.639			2018	GPS3290	
NAD83 (1996)	44 44 35.42547	93 13 02.53556	525801.619	198904.510	160264.654	60626.216	267.711	C		2018	HTH77	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PARTNER-DP9207-3E-13JUL2023.jpg	E	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PARTNER-DP9207-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PARTNER-DP9207-1-13JUL2023.jpg		Jul 13, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102446.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102446.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PAUL

NGS Name: PAUL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4913](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	13	115 N	21 W	444624.09	931720.96	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 25 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** PAUL 2011

IN BURNSVILLE, 0.3 MILE SOUTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT INTERSTATE HIGHWAY 35W MILEPOINT 2.60, THEN TAKE EXIT TO BURNSVILLE PARKWAY CONTINUE NORTH 0.25 MILE ALONG THE WEST FRONTAGE ROAD, 500.0 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 13, 150.0 FEET WEST OF SOUTHBOUND INTERSTATE HIGHWAY 35W, 75.2 FEET SOUTHEAST OF THE NORTHERLY ENTRANCE TO BEST BUY, 26.6 FEET NORTHEAST OF THE WEST FRONTAGE ROAD, 10.6 FEET NORTHEAST OF THE BACK OF A CURB, 4.5 FEET SOUTHWEST OF A FENCE, 1.4 FEET SOUTHWEST OF A GUARD RAIL, 1.9 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: BETTY - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	858.200	0.016	261.580	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.314 12B = -89.314 09 = -89.249 03 = -89.058

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 24.08876	93 17 20.95700	507145.162	209895.269	154578.154	63976.206	234.352			2022	GPS3553	
NAD83 (1996)	44 46 24.08850	93 17 20.95713	507145.152	209895.243	154578.152	63976.198	234.434	C		2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PAUL-DO4913-3NE-12JUL2023.jpg	NE	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PAUL-DO4913-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PAUL-DO4913-1-25JUL2022.jpg		Jul 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95066.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95066.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PBM 13 R USE RESET

NGS Name: 13 R RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0850](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	27 N	24 W	444758.00	931723.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	2009	DESTROYED	Horz=NO Vert=NO	YES	5983		SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SURVEY DISK	USACE

Description: (1971) **Stamping:** PBM 13-R

IN BURNSVILLE, 1.8 MILES NORTH OF THE JUNCTION OF INTERSTATE HIGHWAY 35 AND TRUNK HIGHWAY 13, 125.0 FEET SOUTH OF THE SOUTH BANK OF THE MINNESOTA RIVER, IN THE NORTH FACE OF 1ST PIER SOUTH OF THE RIVER ON INTERSTATE HIGHWAY 35 BRIDGE NUMBER 5983.

Station Notes

DISK GONE, PICTURE TAKEN OF WHERE MARK PREVIOUSLY WAS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	704. 710	0. 016	214. 796	0. 005	2/0	1991	00000025
NGVD29	704. 500	0. 016	214. 732	0. 005	2	1972	L110 MINN

Geoid Separations(ft): GEOID18 = -89.186 12B = -89.189 09 = -89.104 03 = -88.930

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_R_RESET-PP0850-3S-17NOV2006.jpg	S	Nov 17, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/13_R_RESET-PP0850-1-17NOV2006.jpg		Nov 17, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7512.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7512.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PBM A MNDT
County: DAKOTA, MN (Sheet 1)

NGS Name: A

NGS ACRN: [PP0620](#) [Get Map](#)
NGS Quad / Sta Num : 44092431/
USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	21	115 N	17 W	444444.08	925123.36	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	YES		PROJECTS 3 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MAT FOUNDATION (NON-PAVEMENT)	CHISELED CROSS	MNDT

Description: (2010)

Stamping:

IN HASTINGS, 1.1 MILES SOUTHEAST OF LOCK AND DAM NUMBER 2, 2.0 BLOCKS WEST ALONG 3RD STREET WEST FROM THE JUNCTION OF 3RD STREET WEST AND TRUNK HIGHWAY 61 IN HASTINGS, 1.0 BLOCK NORTH ALONG SPRING STREET, 2.5 BLOCKS ALONG LOCK AND DAM ROAD, 67.0 FEET SOUTHWEST OF LOCK AND DAM ROAD.

Station Notes

THE MARK IS CHISELED X ON THE NORTHWEST CORNER OF A STEEL BASE PLATE OF THE NORTHWEST LEG OF A HIGH TENSION TOWER.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	684.690	0.016	208.694	0.005	2/0	1995	00000136
NGVD29	684.529	0.016	208.645	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.187 12B = -95.193 09 = -95.167 03 = -94.967

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/A-PP0620-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/A-PP0620-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/A-PP0620-1-15NOV2006.jpg		Nov 15, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7516.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7516.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PBM L & D 2

NGS Name: L+D 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0619](#) [Get Map](#)
 NGS Quad / Sta Num : 44092442/
 USGS Quad: PRESCOTT

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	21	115 N	17 W	444531.00	925211.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2011	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USACE

Description: (2010) **Stamping:** PBM L+D 2 1970

IN HASTINGS, AT THE NORTHWEST PART OF LOCK AND DAM NUMBER 2, 43.0 FEET SOUTHWEST OF A BITUMINOUS ROAD, 29.0 FEET SOUTHEAST OF A GRAVEL ROAD, 30.8 FEET NORTH OF THE NORTH CORNER OF A BRICK BUILDING, THE STAMPING IS FLATTENED.

Station Notes

THE AREA AROUND THE BUILDING HAS NEW LANDSCAPING, CONSIDERED DESTROYED. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	692.568	0.016	211.095	0.005	2/0	1995	00000136
NGVD29	692.860	0.016	211.184	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.728 12B = -94.757 09 = -94.734 03 = -94.504

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7517.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7517.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PEINE MN049
County: DAKOTA, MN (Sheet 1)

NGS Name: PEINE

NGS ACRN: [DG7755](#) [Get Map](#)
NGS Quad / Sta Num : 44092432/
USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	113 N	17 W	443243.17	924948.96		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1987	2011	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-049

Description: (2003) **Stamping:** PEINE 1987

IN DOUGLAS TOWNSHIP, 4.4 MILES SOUTH ALONG COUNTY ROAD 91 FROM THE JUNCTION OF COUNTY ROAD 91 AND TRUNK HIGHWAY 61 IN MIESVILLE THEN 0.1 MILE EAST ON 280TH STREET, IN A FIELD ON AN UNPLOWED WOODED KNOLL, 425.0 FEET NORTHWEST OF THE NORTH CORNER OF HOUSE NUMBER 13647, 675.0 FEET NORTH OF 280TH STREET, 2.8 FEET SOUTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.090 12B = -97.070 09 = -97.001 03 = -96.903

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 43.17043	92 49 48.95709	626819.618	127132.602	191055.002	38750.095	272.458			2012	GPS2800	
NAD83 (2007)	44 32 43.17054	92 49 48.95784	626819.564	127132.613	191054.985	38750.098	272.484			2007	GPS2300	
NAD83 (1996)	44 32 43.17025	92 49 48.95758	626819.583	127132.584	191054.991	38750.089	272.519	C		2008	GPS2416	
NAD83 (1986)	44 32 43.16301	92 49 48.95407	626819.842	127131.852	191055.070	38749.866		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PEINE-DG7755-3N-25JUL2011.jpg	N	Jul 25, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PEINE-DG7755-2-25JUL2011.jpg		Jul 25, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PEINE-DG7755-1-25JUL2011.jpg		Jul 25, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7518.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7518.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PEMBLE MNDT

NGS Name: PEMBLE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC4940](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	36	115 N	21 W	444349.44	931656.82	2	B

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1992	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 50 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2002) **Stamping:** PEMBLE 1992

IN THE SOUTHWEST PART OF BURNSVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 87.8, 34.8 FEET NORTHEAST OF CRYSTAL LAKE ROAD, 34.4 FEET EAST-NORTHEAST OF THE NORTHEAST CORNER OF A BRIDGE (CRYSTAL LAKE ROAD OVER INTERSTATE HIGHWAY 35), 2.6 FEET NORTHEAST OF A GUARDRAIL, 1.8 FEET SOUTHWEST OF A RIGHT-OF-WAY FENCE, 1.6 FEET SOUTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	1022.334	0.016	311.608	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.672 12B = -89.665 09 = -89.613 03 = -89.419

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 43 49.43756	93 16 56.81810	508893.172	194233.068	155110.949	59202.358	284.271			2022	GPS3553	
NAD83 (2007)	44 43 49.43759	93 16 56.81857	508893.138	194233.071	155110.939	59202.359	284.293			2007	GPS2300	
NAD83 (1996)	44 43 49.43710	93 16 56.81813	508893.170	194233.022	155110.948	59202.343	284.327	B		2005	GPS2036	
NAD83 (1986)	44 43 49.42986	93 16 56.81595	508893.327	194232.288	155110.996	59202.120		1		1998	GPS927	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PEMBLE-AC4940-3N-11JUL2023.jpg	N	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PEMBLE-AC4940-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PEMBLE-AC4940-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7519.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7519.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PIGNATO

NGS Name: PIGNATO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8575](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	32	115 N	19 W	444335.92	930757.37	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 74 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** PIGNATO 2015

IN ROSEMOUNT, 0.4 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 42 IN ROSEMOUNT, AT TRUNK HIGHWAY 3 MILEPOINT 32.05, 34.4 FEET WEST OF A TRUNK HIGHWAY 3 FOG LINE.

Station Pair: JOE - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	952.580	0.016	290.347	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.397 12B = -91.394 09 = -91.332 03 = -91.128

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 35.91854	93 07 57.37174	547841.797	192916.087	166982.514	58800.941	262.493			2015	GPS3101	
NAD83 (1996)	44 43 35.91853	93 07 57.37212	547841.769	192916.086	166982.505	58800.941	262.564	C		2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIGNATO-DP8575-3W-21JUL2023.jpg	W	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIGNATO-DP8575-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIGNATO-DP8575-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103195.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103195.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PIGS 2 MNDT AZ MK

NGS Name: PIGS 2 AZ MK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	21	28 N	22 W	445334.05	930319.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1995	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	AZIMUTH MARK DISK	MNDT

Description: (2006) **Stamping:** PIGS 2 AZ MK

IN SOUTH ST. PAUL, 1.1 MILES NORTH ALONG FIFTH AVENUE FROM THE JUNCTION OF FIFTH AVENUE AND INTERSTATE HIGHWAY 494, THEN 0.7 MILE WEST ON MARIE AVENUE, THEN 740.0 FEET NORTH ON 17TH AVENUE, NEAR THE SOUTHEAST CORNER OF PROPERTY AT 203 17TH AVENUE, OPPOSITE THE OAKHILL CEMETERY, 44.5 FEET WEST OF 17TH AVENUE, 81.8 FEET SOUTHWEST OF A LIGHT POLE ON THE WEST SIDE OF 17TH AVENUE, 32.6 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF PROPERTY AT 203 17TH AVENUE, 79.7 FEET NORTH OF AN EAST-WEST WOOD PRIVACY FENCE, 29.9 FEET TO BACK OF A CURB. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Station Notes

THE STATION WAS SET IN 1995 BY DISTRICT 9 SURVEYS BUT POSITION WAS NOT ESTABLISHED. THE ROD DEPTH IS UNKNOWN. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.502 12B = -90.508 09 = -90.449 03 = -90.262

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIGS_2_AZ_MK-3W-29AUG2011.jpg	W	Aug 29, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIGS_2_AZ_MK-2-29AUG2011.jpg		Aug 29, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIGS_2_AZ_MK-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7520.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7520.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PIKES MN037
County: DAKOTA, MN (Sheet 1)

NGS Name: PIKES

NGS ACRN: AC5072	Get Map
NGS Quad / Sta Num : 44093112/	
USGS Quad: INVER GROVE HEIGHTS	

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	34	27 N	22 W	444723.32	930208.98	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2009	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** PIKES 1988

IN INVER GROVE HEIGHTS, ON A FRONTAGE ROAD WEST OF TRUNK HIGHWAY 52 MILEPOINT 119.15, 0.2 MILE WEST ALONG 117TH STREET EAST FROM THE JUNCTION OF TRUNK HIGHWAY 52, THENCE 0.7 MILE NORTH ALONG CLARK ROAD, THENCE 0.15 MILE EAST ALONG COURTHOUSE BOULEVARD TO A FRONTAGE ROAD, 127.0 FEET SOUTH OF COURTHOUSE BOULEVARD, 57.0 FEET NORTHEAST OF A POWER POLE, 18.0 FEET NORTH OF AN ENTRANCE TO HOUSE NUMBER 11025, 5.6 FEET WEST OF A WITNESS POST, 4.0 FEET EAST OF THE EAST EDGE OF A BITUMINOUS FRONTAGE ROAD.

Station Notes

THE STAMPING IS VERY HARD TO READ, NEED A RECOVERY NOTE, 1.8 MILE SOUTH OF COUNTY ROAD 56. THE DISK WAS TURNED IN TO THE OFFICE. THE STATION WAS DESTROYED.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	924. 890	0. 016	281. 907	0. 005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.735 12B = -91.722 09 = -91.676 03 = -91.519

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 47 23. 31674	93 02 08. 98211	572916. 038	216018. 360	174625. 158	65842. 528	253. 941			2014	GPS2691	
NAD83 (2007)	44 47 23. 31667	93 02 08. 98331	572915. 952	216018. 352	174625. 131	65842. 526	253. 954			2007	GPS2300	
NAD83 (1996)	44 47 23. 31632	93 02 08. 98280	572915. 988	216018. 317	174625. 143	65842. 515	254. 011	C		2010	HNEWP	
NAD83 (1986)	44 47 23. 30823	93 02 08. 97909	572916. 259	216017. 498	174625. 225	65842. 265		C		1989	C019	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIKES-AC5072-3E-17MAR2009.jpg	E	Mar 17, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIKES-AC5072-2-17MAR2009.jpg		Mar 17, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIKES-AC5072-1-17MAR2009.jpg		Mar 17, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7521.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7521.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PIKES MN037 RESET

NGS Name: PIKES RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP1346](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	27 N	22 W	444723.32	930208.98	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 10 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 33 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** PIKES RESET 1988 2011

IN INVER GROVE HEIGHTS, ON A FRONTAGE ROAD WEST OF TRUNK HIGHWAY 52 MILEPOINT 119.15, 0.2 MILE WEST ALONG 117TH STREET EAST FROM THE JUNCTION OF 117TH STREET AND TRUNK HIGHWAY 52 IN INVER GROVE HEIGHTS, THENCE 0.7 MILE NORTH ALONG CLARK ROAD, THENCE 0.15 MILE EAST ALONG COURTHOUSE BOULEVARD TO A FRONTAGE ROAD, 127.0 FEET SOUTH OF COURTHOUSE BOULEVARD, 57.0 FEET NORTHEAST OF A POWER POLE, 18.0 FEET NORTH OF AN ENTRANCE TO HOUSE NUMBER 11025, 5.6 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	924.634	0.016	281.829	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -91.735 12B = -91.722 09 = -91.676 03 = -91.519

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 23.31662	93 02 08.98236	572916.020	216018.347	174625.152	65842.524	253.861			2016	GPS3146	
NAD83 (1996)	44 47 23.31659	93 02 08.98287	572915.983	216018.344	174625.141	65842.523	253.898	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIKES_RESET-DP1346-3E-15AUG2023.jpg	E	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIKES_RESET-DP1346-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PIKES_RESET-DP1346-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_94553.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_94553.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PINE BEND MNDT

NGS Name: PINE BEND

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AB9785](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	18	115 N	18 W	444552.69	930159.63	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 73 FT)	HORIZONTAL CONTROL DISK	MNMT

Description: (1995) **Stamping:** PINE BEND 1985

0.5 MILE SOUTH OF THE SOUTHEAST CORNER OF INVER GROVE HEIGHTS, AT MILEPOINT 210.9, NEAR THE SOUTHEAST CORNER OF BRIDGE NUMBER 9110 (EAST-BOUND TRUNK HIGHWAY 55 OVER NORTHBOUND TRUNK HIGHWAY 52), 47.6 FEET EAST-SOUTHEAST OF THE SOUTHEAST CORNER OF A BRIDGE, 23.0 FEET SOUTHWEST OF EASTBOUND TRUNK HIGHWAY 55, 3.4 FEET SOUTHWEST OF A GUARDRAIL, 2.1 FEET EAST OF A WITNESS POST, 50.93 FEET SOUTHEAST OF PINE BEND MNMT RM 1, 62.55 FEET SOUTH-SOUTHEAST OF PINE BEND RM 2, 49.8 FEET NORTHWEST OF THE SOUTH GUARD RAIL POST.

Station Pair: LANGER - DAKOTA, MN

Station Notes

THE DISKS ARE GONE, STEM STILL IN PLACE ON PINE BEND RM 1 AND PINE BEND MNMT RM 2.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	939.266	0.016	286.289	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.077 12B = -92.060 09 = -92.014 03 = -91.853

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>				<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>						
NAD83 (2011)	44 45 52.69033	93 01 59.63334	573622.229	206842.188	174840.405	63045.625	258.215		2016	GPS3146						
NAD83 (2007)	44 45 52.69066	93 01 59.63451	573622.144	206842.221	174840.379	63045.635	258.229		2007	GPS2300						
NAD83 (1996)	44 45 52.69036	93 01 59.63397	573622.183	206842.191	174840.391	63045.626	258.279	C	2016	HCOAT						
NAD83 (1986)	44 45 52.68209	93 01 59.62812	573622.609	206841.355	174840.521	63045.371		1	1998	GPS1211						
NAD27	44 45 52.80220	93 01 58.85910						C	1950	UNK						

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PINE_BEND-AB9785-3SW-15AUG2023.jpg	SW	Aug 15, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PINE_BEND-AB9785-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PINE_BEND-AB9785-1-15AUG2023.jpg		Aug 15, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7522.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7522.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PINE BEND MNDT RM 2

NGS Name: PINE BEND RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE9054](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	18	115 N	22 W	444553.31	930159.68	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	DESTROYED	Horz=NO Vert=NO	YES	9110	FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	REFERENCE MARK DISK	MNDT

Description: (1997) **Stamping:** PINE BEND NO 2 1985

1.0 MILES SOUTH OF PINE BEND, AT TRUNK HIGHWAY 55 MILEPOINT 210.9, IN AN ABUTMENT AT THE NORTHEAST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 9110 OVER TRUNK HIGHWAY 52, 0.95 MILE SOUTH ALONG TRUNK HIGHWAY 52 AND 55 FROM THE JUNCTION OF 117TH STREET AND TRUNK HIGHWAY 52 AND 55 IN PINE BEND, 17.5 FEET NORTH OF EASTBOUND TRUNK HIGHWAY 55.

Station Notes
RECOVERED STEM (ROD) WITH NO DISK.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	941.310	0.016	286.912	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -92.070 12B = -92.054 09 = -92.008 03 = -91.847

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PINE_BEND_RM_2-AE9054-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PINE_BEND_RM_2-AE9054-1-28SEP2005.jpg		Sep 28, 2005

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36790.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36790.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PINE BEND RM 1

NGS Name: PINE BEND RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE9053](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	18	115 N	22 W	444553.09	930200.06	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	DESTROYED	Horz=NO Vert=NO	YES	9110		NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE ABUTMENT	REFERENCE MARK DISK	MNDT

Description: (1997) **Stamping:** PINE BEND NO 1 1985

1.0 MILES SOUTH OF PINE BEND, AT TRUNK HIGHWAY 55 MILEPOINT 210.9, IN ABUTMENT AT THE SOUTHEAST CORNER OF TRUNK HIGHWAY 55 BRIDGE NUMBER 9110 OVER TRUNK HIGHWAY 52, 0.95 MILE SOUTH ALONG TRUNK HIGHWAY 52 AND 55 FROM THE JUNCTION OF 117TH STREET AND TRUNK HIGHWAY 52 AND 55 IN PINE BEND, 17.5 FEET SOUTH OF EASTBOUND TRUNK HIGHWAY 55.

Station Notes
RECOVERED STEM (ROD) WITHOUT DISK.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	943.115	0.016	287.462	0.005	2/1	2004	00000449

Geoid Separations(ft): GEOID18 = -92.070 12B = -92.054 09 = -92.008 03 = -91.847

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PINE_BEND_RM_1-AE9053-2-15AUG2023.jpg		Aug 15, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PINE_BEND_RM_1-AE9053-1-28SEP2005.jpg		Sep 28, 2005

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_36791.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_36791.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PLANT

NGS Name: PLANT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6189](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	115 N	21 W	444333.17	931654.71	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 114 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** PLANT 2014

IN BURNSVILLE, 2.0 MILES NORTH ALONG NORTHBOUND INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 5 AND COUNTY ROAD 50 IN LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 87.5, 41.5 FEET EAST OF A NORTHBOUND INTERSTATE HIGHWAY 35 FOG LINE, 46.5 FEET WEST OF A RIGHT-OF-WAY FENCE, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: HOSA MNDT - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	998.505	0.016	304.345	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.714 12B = -89.711 09 = -89.659 03 = -89.462

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 33.17327	93 16 54.70685	509046.299	192585.915	155157.622	58700.304	276.996			2022	GPS3553	
NAD83 (1996)	44 43 33.17315	93 16 54.70690	509046.295	192585.903	155157.621	58700.301	277.058	C		2022	HSPLIT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PLANT-DP6189-3E-11JUL2023.jpg	E	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PLANT-DP6189-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PLANT-DP6189-1-25JUL2022.jpg		Jul 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102073.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102073.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: POULTRY MN037
County: DAKOTA, MN (Sheet 1)

NGS Name: POULTRY

NGS ACRN: AC5073
NGS Quad / Sta Num : 44093121/
USGS Quad: COATES

Table with columns: Reference, Reference, Vert Order, Horz Order. Values: Latitude 444306.94, Longitude 930603.23, Order C.

Table with columns: Year Set, Last Recovery, Condition, Geodetic Usability, Photos, Bridge Num, F/P/R, Magnetic Properties. Values: 1990, 2014, DESTROYED, Horz=NO Vert=NO, YES, RECESSED 2 IN., MARKER W/BAR MAGNET.

Table with columns: Monument Type, Disk Type, Mon. Agency. Values: UNKNOWN, SURVEY DISK, MN-037.

Description: (2011) Stamping: POULTRY

IN ROSEMOUNT, 1.35 MILES EAST ALONG COUNTY ROAD 46 FROM THE JUNCTION OF COUNTY ROAD 46 AND TRUNK HIGHWAY 3, THEN 0.1 MILE NORTHEAST ON STATION TRAIL, 5.8 FEET EAST-SOUTHEAST OF A METAL CULVERT, 18.0 FEET WEST-NORTHWEST OF THE STATION TRAIL ROAD, 9.0 FEET SOUTHEAST OF UMORE PARK NO TRESPASSING SIGN, 1.2 FEET SOUTH OF A WITNESS POST.

Station Notes
DESTROYED BY CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.883 12B = -91.876 09 = -91.821 03 = -91.621

Geodetic Position and Dakota County Coordinates

Table with columns: Datum and Adjustment, Geodetic Positions (Latitude, Longitude), County (Feet) (X, Y), County (Meters) (X, Y), Ellipsoid Hgt (m), Surv Ord, Project Info (Year, Reference). Rows include NAD83 (2011), NAD83 (2007), NAD83 (1996), NAD83 (1986).

Station Photos

Table with columns: Type, File Name, Dir, Date. Rows for Location, Monument, and Disk with corresponding URLs and dates (Sep 15, 2011).

** All station images can be viewed at: ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos **

Caution: Any positions shown above were selected based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7523.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7523.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PRIME

NGS Name: PRIME

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ8793](#) [Get Map](#)
NGS Quad / Sta Num : 44093113/
USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	30	27 N	23 W	444738.72	931317.06	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** PRIME 2017

IN EAGAN, 1.05 MILES NORTH ALONG TRUNK HIGHWAY 77 FROM THE JUNCTION OF TRUNK HIGHWAY 77 AND INTERSTATE HIGHWAY 35 EAST IN EAGAN, AT TRUNK HIGHWAY 77 MILEPOINT 4.0, 103.8 FEET EAST OF NORTHBOUND TRUNK HIGHWAY 77, 244.0 FEET SOUTHEAST OF MILEPOINT 4, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: SYNAP - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	928.548	0.016	283.022	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.714 12B = -89.714 09 = -89.645 03 = -89.462

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 38.71908	93 13 17.06256	524731.351	217467.031	159938.436	66284.084	255.675			2018	GPS3290	
NAD83 (1996)	44 47 38.71895	93 13 17.06297	524731.322	217467.017	159938.427	66284.080	255.745	C		2018	HTH77	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PRIME-DQ8793-3E-13JUL2023.jpg	E	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PRIME-DQ8793-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PRIME-DQ8793-1-30OCT2017.jpg		Oct 30, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108705.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108705.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PTS 13 RESET

NGS Name: PTS 13 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0648](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	24	115 N	19 W	444446.77	930206.53	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1942	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 48 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2007) **Stamping:** PTS NO 13 1908 RESET 1942

1.5 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 55 AT PINE BEND, AT TRUNK HIGHWAY 52 MILEPOINT 116.05, 72.5 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 34.8 FEET NORTH OF 140TH STREET EAST, 29.2 FEET EAST OF A POWER POLE, 1.0 FOOT SOUTHEAST OF A WITNESS POST.

Station Notes

THE MARK IS DOWN 4.0 FEET FROM THE TOP OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	857.895	0.016	261.487	0.005	2/1	2016	00000879
NGVD29	857.744	0.016	261.441	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -92.287 12B = -92.277 09 = -92.224 03 = -92.047

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PTS_13_RESET-PP0648-3NW-16AUG2023.jpg	NW	Aug 16, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PTS_13_RESET-PP0648-2-06NOV2006.jpg		Nov 6, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PTS_13_RESET-PP0648-1-07NOV2006.jpg		Nov 7, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7524.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7524.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: PUMP

NGS Name: PUMP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ0993](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	4	112 N	18 W	443221.58	925958.56	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 19 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** PUMP 2015

1.3 MILES NORTH-NORTHEAST OF RANDOLPH, 1.0 MILE NORTHEAST ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 88 IN RANDOLPH, AT TRUNK HIGHWAY 56 MILEPOINT 94.4, 74.6 FEET NORTH-NORTHWEST OF TRUNK HIGHWAY 56, 0.2 MILE NORTHEAST OF 284TH STREET EAST, 0.3 MILE SOUTHWEST OF COUNTY ROAD 86, 3.3 FEET SOUTHWEST OF A RIGHT-OF-WAY POST, 1.5 FEET NORTHWEST OF A WITNESS POST.

Station Pair: MUNCH - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	888.020	0.016	270.669	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.983 12B = -94.980 09 = -94.924 03 = -94.796

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 21.58094	92 59 58.55943	582677.848	124728.324	177600.563	38017.269	241.714	2016	C	2016	GPS3146	
NAD83 (1996)	44 32 21.58076	92 59 58.55978	582677.823	124728.306	177600.556	38017.264	241.777	2016	C	2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PUMP-DQ0993-3W-06OCT2022.jpg	W	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PUMP-DQ0993-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/PUMP-DQ0993-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103425.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103425.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Q 26

NGS Name: Q 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1562](#) [Get Map](#)
NGS Quad / Sta Num : 44093211/
USGS Quad: DENNISON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	20	112 N	19 W	442931.08	930713.55	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1933	2011	GOOD	Horz=NO Vert=NO	YES		PROJECTS 4 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** Q 26 1933

3.4 MILES NORTHEAST OF THE RAILROAD STATION AT NORTHFIELD, 1.3 MILES NORTHEAST ALONG NORTHFIELD BOULEVARD FROM THE JUNCTION OF NORTHFIELD BOULEVARD AND TRUNK HIGHWAY 3 IN NORTHFIELD, 0.1 MILE EAST ALONG COUNTY ROAD 94 (CANNON RIVER BOULEVARD) TO A FIELD ENTRANCE SOUTH, THEN 0.1 MILE SOUTH ON A FIELD ROAD TO THE STATION ON THE RIGHT, 40.0 FEET NORTH OF THE NORTH RAIL OF A RAILROAD, 30.0 FEET WEST OF A FARM DRIVEWAY CROSSING, AT THE SOUTHEAST CORNER OF A PASTURE, 8.0 FEET SOUTH OF A FENCE, 1.0 FOOT SOUTH OF A WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	901.117	0.016	274.661	0.005	2/0	1991	00000025
NGVD29	901.051	0.016	274.641	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.560 12B = -93.589 09 = -93.537 03 = -93.389

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	44 29 31.08138	93 07 13.54667	551212.153	107361.723	168009.800	32723.919	246.154		2014	GPS3021
NAD83 (2007)	44 29 31.08144	93 07 13.54737	551212.102	107361.729	168009.785	32723.921	246.179	C	2009	GPS2437
NAD83 (1996)	44 29 31.08119	93 07 13.54684	551212.140	107361.704	168009.796	32723.913	246.204	C	2012	HNORTH

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Q_26-PP1562-3W-30AUG2011.jpg	W	Aug 30, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Q_26-PP1562-2-30AUG2011.jpg		Aug 30, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Q_26-PP1562-1-30AUG2011.jpg		Aug 30, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7525.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7525.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 26

NGS Name: R 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0803](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	112 N	19 W	443021.00	930452.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1973) **Stamping:** R-26 1933

3.75 MILES SOUTHWEST ALONG THE CHICAGO AND NORTHWESTERN RAILROAD FROM THE STATION AT RANDOLPH, 60.0 FEET SOUTHWEST OF A ROAD CROSSING, 40.0 FEET WEST OF A ROAD, 34.0 FEET SOUTH OF A SOUTH RAIL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	899.739	0.016	274.241	0.005	2/0	1991	00000025
NGVD29	899.657	0.016	274.216	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.022 12B = -94.039 09 = -93.993 03 = -93.852

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7526.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7526.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: R 26 RESET

NGS Name: R 26 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0804](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	15	112 N	19 W	443021.45	930452.47		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2022	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 30 IN.	STEEL SPIKE IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2012) **Stamping:** R 26 1933

3.5 MILES SOUTHWEST OF RANDOLPH, 2.3 MILES NORTHEAST OF THE JUNCTION OF COUNTY ROAD 94 AND COUNTY ROAD 47, 32.0 FEET SOUTHEAST OF THE SOUTHEAST RAIL OF A RAILROAD, 65.5 FEET NORTH OF CANNON RIVER BOULEVARD (COUNTY ROAD 94), 58.0 FEET SOUTHWEST OF A RAILROAD CROSSING, 40.0 FEET WEST OF ALTA AVENUE (COUNTY ROAD 59), 1.5 FEET EAST OF A WITNESS POST.

Station Notes

THE CONCRETE IS BROKEN. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	901.370	0.007	274.738	0.002	1	1959	L76 MINN

Geoid Separations(ft): GEOID18 = -94.019 12B = -94.039 09 = -93.989 03 = -93.848

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 30 21.44584	93 04 52.47228	561424.133	112489.460	171122.418	34286.856	246.121			2012	GPS2800	
NAD83 (2007)	44 30 21.44588	93 04 52.47296	561424.083	112489.464	171122.403	34286.857	246.144		C	2009	GPS2437	
NAD83 (1996)	44 30 21.44562	93 04 52.47249	561424.117	112489.437	171122.413	34286.849	246.170		C	2012	HNORTH	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/R_26_RESET-PP0804-3N-30AUG2011.jpg	N	Aug 30, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/R_26_RESET-PP0804-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/R_26_RESET-PP0804-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7527.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7527.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RADEC

NGS Name: RADEC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ8791](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	19	27 N	23 W	444856.70	931313.12	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 18 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** RADEC 2017

IN EAGAN, AT THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77 IN EAGAN, AT TRUNK HIGHWAY 13 MILEPOINT 102.0, 68.9 FEET NORTHWEST OF NORTHBOUND TRUNK HIGHWAY 13, 12.5 FEET NORTHWEST OF A GUARDRAIL, 125.6 FEET SOUTHEAST OF A LIGHT POLE, 1.5 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: 1311 H - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	817.594	0.016	249.203	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.606 12B = -89.609 09 = -89.514 03 = -89.357

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 48 56.69640	93 13 13.12225	525006.166	225364.877	160022.200	68691.352	221.889			2018	GPS3290	
NAD83 (1996)	44 48 56.69628	93 13 13.12266	525006.137	225364.865	160022.191	68691.348	221.960	C		2018	HTH77	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RADEC-DQ8791-3NW-20JUL2023.jpg	NW	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RADEC-DQ8791-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RADEC-DQ8791-1-30OCT2017.jpg		Oct 30, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108709.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108709.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RAHN MNDT

NGS Name: RAHN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1378](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1137
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	20	27 N	23 W	444819.29	931131.06	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1981) **Stamping:** RAHN 1963

IN EAGAN, 0.4 MILE NORTH ALONG PILOT KNOB ROAD FROM THE JUNCTION OF PILOT KNOB ROAD AND CRESTRIDGE LANE IN EAGAN, THEN 2.1 MILES SOUTHWESTERLY ALONG INTERSTATE HIGHWAY 35E, THEN 0.3 MILE SOUTH ALONG EXIT 94 FOR COUNTY ROAD 30.

Station Notes

STILL DESTROYED IN 2006.
30 YEAR ANNIVERSARY -DESTROYED IN 2011.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	967.567	0.016	294.915	0.005	2/0	1991	00000025
NGVD29	967.354	0.016	294.850	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.888 12B = -89.892 09 = -89.819 03 = -89.639

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 48 19.29396	93 11 31.06483	532369.208	221586.757	162266.459	67539.779	267.600	2	1999	17648		
NAD83 (1986)	44 48 19.28761	93 11 31.06285	532369.352	221586.114	162266.503	67539.583		2	1986	17289		
NAD27	44 48 19.41204	93 11 30.26720						2	1979	15198		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7528.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7528.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RAHN MNDT RM 1

NGS Name: RAHN RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1377](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1137
 USGS Quad: ST PAUL SW

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	28	115 N	20 W	444816.17	931137.36	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	1990	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1995) **Stamping:** RAHN NO. 1 1963

5.5 MILES SOUTH-SOUTHWEST OF MENDOTA, 3.8 FEET WEST-NORTHWEST OF A WITNESS POST, 2.2 FEET NORTH OF A FENCE CORNER, 11.0 FEET EAST OF A FARM ENTRANCE, 70.4 FEET SOUTHEAST OF A POWER POLE, 34.5 FEET SOUTH OF COUNTY ROAD 30, 55.0 FEET NORTH-NORTHEAST OF THE NORTHWEST CORNER OF A BUILDING.

Station Notes

IN JULY 1995 DISTRICT 9 SURVEYS COULD NOT FIND THE STATION-LOCAL REFERENCE TIES ARE GONE-HILL HAS BEEN CUT DOWN-A STRIP MALL HAS BEEN BUILT IN THE AREA- THE TIES FALL IN A PARKING LOT OF A STRIP MALL.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	952.800	0.016	290.414	0.005	2/0	1991	00000025
NGVD29	952.587	0.016	290.349	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -89.878 12B = -89.882 09 = -89.810 03 = -89.629

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 48 16.16660	93 11 37.36142	531915.689	221269.328	162128.226	67443.026	263.102	2	1999	17648		
NAD83 (1986)	44 48 16.16028	93 11 37.35943	531915.833	221268.689	162128.270	67442.831		2	1986	17289		
NAD27	44 48 16.28476	93 11 36.56363						2	1979	15198		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7529.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7529.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RAHN MNDT RM 2

NGS Name: RAHN RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2534](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1137
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	26	115 N	20 W	444822.10	931145.61		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2011	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (1995) **Stamping:** RAHN NO. 2 1963

5.5 MILES SOUTH-SOUTHWEST OF MENDOTA, AT THE SOUTHEAST CORNER OF A LAWN AT THE OHM RESIDENCE, 36.0 FEET WEST OF BLACKHAWK ROAD, 27.8 FEET NORTH OF A POWER POLE, 39.4 FEET EAST OF A POWER POLE, 102.0 FEET SOUTH OF AN ENTRANCE, 130.9 FEET SOUTH-SOUTHWEST OF A POWER POLE, 73.85 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A HOUSE.

Station Notes

IN JULY 1995 DISTRICT 9 SURVEYS COULD NOT FIND THE STATION-LOCAL REFERENCE TIES ARE GONE-HILL NEARBY HAS BEEN CUT DOWN AND A STRIP MALL WAS BUILT- THE TIES FALL IN A PARKING AREA OF A STRIP MALL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.849 12B = -89.852 09 = -89.777 03 = -89.600

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 48 22.10076	93 11 45.60666	531320.290	221869.448	161946.748	67625.943	256.097	2	1999	17648		
NAD83 (1986)	44 48 22.09442	93 11 45.60460	531320.439	221868.807	161946.794	67625.748		2	1986	17289		
NAD27	44 48 22.21899	93 11 44.80842						2	1979	15198		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7530.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7530.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RAHN MNDT RM 3

NGS Name: RAHN RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4602](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1137
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	20	27 N	23 W	444819.00	931131.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2014	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SURVEY DISK	MNDT

Description:

Stamping:

IN EAGAN, 0.10 MILE WEST ALONG COUNTY ROAD 30/DIFFLEY ROAD FROM THE JUNCTION OF COUNTY ROAD 30/DIFFLEY ROAD AND INTERSTATE HIGHWAY 35E, 370.0 FEET NORTH OF COUNTY ROAD 30/DIFFLEY ROAD, WEST OF A SOUTHBOUND INTERSTATE HIGHWAY 35E EXIT RAMP.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.888 12B = -89.892 09 = -89.819 03 = -89.639

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_97685.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_97685.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RAIDERS

NGS Name: RAIDERS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1115](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	115 N	17 W	444408.10	925110.20	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	SURVEY DISK	MNDT

Description: (2015) **Stamping:** RAIDERS 2015

IN HASTINGS, 0.1 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS, AT TRUNK HIGHWAY 61 MILEPOINT 117.0, THEN 0.1 MILE WEST ON 10TH STREET, THEN 500.0 FEET SOUTH IN A PARKING LOT FOR A FOOTBALL FIELD, THEN WALK ACROSS A FOOTBALL FIELD, ABOUT 150.0 FEET WEST OF TRUNK HIGHWAY 61, ABOUT 300.0 FEET SOUTH OF 10TH STREET, ABOUT 150.0 FEET NORTH OF TRUNK HIGHWAY 55, 13.4 FEET NORTHWEST OF A ROCK RETAINING WALL, 15.3 FEET NORTHEAST OF A FENCE, STATION RAIDERS IS EAST OF A FOOTBALL FIELD, NO WITNESS POST.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	773.158	0.016	235.659	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.403 12B = -95.397 09 = -95.371 03 = -95.180

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RAIDERS-DQ1115-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RAIDERS-DQ1115-2-20JUL2015.jpg		Jul 20, 2015
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RAIDERS-DQ1115-1-20JUL2015.jpg		Jul 20, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104088.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104088.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RANDAL

NGS Name: RANDAL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4923](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	27 N	23 W	444938.23	931152.78	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 65 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** RANDAL 2011

IN EAGAN, 1.44 MILES NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 77 IN EAGAN, AT TRUNK HIGHWAY 13 MILEPOINT 103.24, 98.8 FEET NORTHEAST OF BLACKHAWK ROAD, 56.2 FEET SOUTHEAST OF NORTHBOUND TRUNK HIGHWAY 13, 51.2 FEET NORTHEAST OF A SIGNAL POST, 1.5 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	810.536	0.016	247.052	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.714 12B = -89.714 09 = -89.623 03 = -89.468

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 49 38.23352	93 11 52.77696	530792.066	229579.400	161785.745	69975.941	219.699			2015	GPS3085	
NAD83 (1996)	44 49 38.23326	93 11 52.77720	530792.048	229579.374	161785.740	69975.933	219.785	C		2015	HDOTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RANDAL-DO4923-3E-20JUL2023.jpg	E	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RANDAL-DO4923-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RANDAL-DO4923-1-29NOV2011.jpg		Nov 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95079.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95079.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RANDOLPH WATER TANK

NGS Name: RANDOLPH WATER TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	112 N	18 W	443135.00	930127.90		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	TANK	MNDT

Description: (1990) **Stamping:**
 IN THE WEST PART OF RANDOLPH, 150.0 FEET NORTH OF COUNTY ROAD 88, 75.0 FEET EAST OF DANIEL AVENUE.

Station Notes
 WATER TANK STILL STANDING 2006 AND IN 2022.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.701 12B = -94.705 09 = -94.652 03 = -94.527

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 31 35.00439	93 01 27.90443	576223.287	119987.093	175633.209	36572.139					1991	H1991

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RANDOLPH_WATER_TANK-3W-25OCT2022.jpg	W	Oct 25, 2022
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7531.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7531.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RAVEN

NGS Name: RAVEN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK3540](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	113 N	17 W	443746.35	924733.84		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2006	2022	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	SURVEY DISK	MNDT

Description: (2011) **Stamping:** RAVEN 2006

2.0 MILES NORTHEAST OF MIESVILLE, 0.95 MILE EAST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND COUNTY ROAD 91 SOUTH IN MIESVILLE TO TRUNK HIGHWAY 61 MILEPOINT 105.45, THEN 2.0 MILES NORTH ON ORLANDO AVENUE (COUNTY LINE), 54.0 FEET SOUTH OF 220TH STREET EAST, 34.0 FEET WEST OF ORLANDO AVENUE, 11.0 FEET SOUTHWEST OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.195 12B = -97.191 09 = -97.119 03 = -96.985

Geodetic Position and Goodhue County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 37 46.34759	92 47 33.84448	588676.835	258712.409	179429.058	78855.700	258.908			2012	GPS2800	
NAD83 (2007)	44 37 46.34773	92 47 33.84524	588676.780	258712.423	179429.042	78855.704	258.932	C		2009	GPS2416	
NAD83 (1996)	44 37 46.34746	92 47 33.84470	588676.819	258712.395	179429.053	78855.696	258.987	C		2008	GPS2416	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RAVEN-DK3540-3W-28SEP2022.jpg	W	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RAVEN-DK3540-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RAVEN-DK3540-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63267.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63267.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ROADWAY MN037

NGS Name: ROADWAY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	33	27 N	22 W	444700.75	930353.18		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2000) **Stamping:** ROADWAY 1988

IN INVER GROVE HEIGHTS, 0.5 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 32 (CLIFF ROAD) AND COUNTY ROAD 71 (RICH VALLEY BOULEVARD), AT A FIELD ENTRANCE, 17.0 FEET EAST OF COUNTY ROAD 71, 66.0 FEET NORTHWEST OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.447 12B = -91.434 09 = -91.384 03 = -91.210

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 47 00.75364	93 03 53.18545	565407.839	213708.595	172336.654	65138.510		C	1989	C019

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7532.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7532.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RORY

NGS Name: RORY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8576](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	36	27 N	23 W	444701.46	930647.31	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 39 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** RORY 2015

IN EAGAN, 0.5 MILE SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND COUNTY ROAD 32 (CLIFF ROAD) IN EAGAN, AT TRUNK HIGHWAY 3 MILEPOINT 36.25, 46.8 FEET SOUTHEAST OF TRUNK HIGHWAY 3, 27.9 FEET NORTHEAST OF AN ENTRANCE, 10.0 EAST OF CHAIN LINK FENCE, 1.5 FEET NORTHWEST OF A WITNESS POST.

Station Pair: GWENYTH - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	925.572	0.016	282.115	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.876 12B = -90.876 09 = -90.813 03 = -90.623

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 01.46104	93 06 47.31385	552847.942	213745.137	168508.390	65149.648	254.415	2015	C	2015	GPS3101	
NAD83 (1996)	44 47 01.46101	93 06 47.31423	552847.915	213745.134	168508.381	65149.647	254.478	2015	C	2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RORY-DP8576-3SE-21JUL2023.jpg	SE	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RORY-DP8576-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RORY-DP8576-1-02APR2015.jpg		Apr 2, 2015

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103196.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103196.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ROSEMONT WATER TANK

NGS Name: ROSEMONT WATER TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	115 N	19 W	444356.62	930809.78		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1981	2023	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	MNDT

Description: (1981)

Stamping:

IN THE SOUTHWEST PART OF ROSEMONT, 250.0 FEET NORTH OF 150TH STREET, 125.0 FEET EAST OF CHIPPENDALE AVENUE WEST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.276 12B = -91.273 09 = -91.210 03 = -91.004

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROSEMONT_WATER_TANK-3NE-20JUL2023.jpg	NE	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROSEMONT_WATER_TANK-2-20JUL2023.jpg		Jul 20, 2023
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7533.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7533.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ROSIE

NGS Name: ROSIE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1098](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	19	114 N	16 W	443947.61	924638.61	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 69 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** ROSIE 2015

6.0 MILES SOUTHEAST OF HASTINGS, 5.2 MILES SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 316 MILEPOINT 4.65, 41.9 FEET SOUTHWEST OF A TRUNK HIGHWAY 316 FOG LINE, 46.0 FEET SOUTHEAST OF DRIVEWAY NUMBER 19689, 0.5 MILE NORTHWEST OF COUNTY ROAD 68, 1.5 FEET NORTHEAST OF A WITNESS POST.

Station Pair: HUCK - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	826.373	0.016	251.879	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -97.224 12B = -97.224 09 = -97.165 03 = -97.011

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 39 47.60871	92 46 38.61258	640320.499	170203.974	195170.079	51878.275	222.231			2016	GPS3147	
NAD83 (1996)	44 39 47.60863	92 46 38.61304	640320.466	170203.965	195170.068	51878.272	222.294	C		2016	HMTES	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROSIE-DQ1098-3SW-27SEP2022.jpg	SW	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROSIE-DQ1098-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ROSIE-DQ1098-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103429.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103429.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 20791

NGS Name: RRBM 20791

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0810](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	113 N	18 W	443300.00	930021.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2007	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SEE DESCRIPTION	NGS

Description:

Stamping:

ABOUT 1.8 MILES NORTH BY A RAIL. ALONG THE CHICAGO AND GREAT WESTERN RAILWAY, 1170.0 FEET SOUTH OF MILEPOST S-31, ON THE SOUTHWEST CORNER OF THE WEST SIDE OF A STONE CULVERT, AT RAILROAD STATION 20791.

Station Notes

THE RAILROAD HAS BEEN REMOVED. THE RAILROAD ELEVATION IS 397.22 FEET, THE SET DATE IS UNCERTAIN, MAY NEED MORE RESEARCH.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	894.559	0.016	272.662	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.846 12B = -94.842 09 = -94.787 03 = -94.652

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66688.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66688.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 20854

NGS Name: RRBM 20854

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0608](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	113 N	18 W	443346.00	930010.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - MEDIUM	SEE DESCRIPTION	NGS

Description:

Stamping:

3.0 MILES NORTH FROM RANDOLPH. ALONG THE CHICAGO AND GREAT WESTERN RAILWAY, 145.0 FEET SOUTH OF MILEPOST S-30, ON THE NORTHEAST CORNER OF THE NORTH ABUTMENT OF A RAILROAD CULVERT, AT RAILROAD STATION 20854.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	911.143	0.016	277.717	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.816 12B = -94.810 09 = -94.750 03 = -94.616

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66908.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66908.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 20891

NGS Name: RRBM 20891

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0609](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	113 N	18 W	443410.00	930002.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SEE DESCRIPTION	NGS

Description: (2010)

Stamping:

2.7 MILES FROM HAMPTON. ALONG THE CHICAGO AND GREAT WESTERN RAILWAY, 1720.0 FEET SOUTH OF MILEPOST S-29, ON THE SOUTHEAST CORNER OF THE NORTH ABUTMENT OF RAILROAD BRIDGE NUMBER 395.67, AT RAILROAD STATION 20891.

Station Notes

THE RAILROAD HAS BEEN REMOVED. THE RAILROAD ELEVATION IS 928.57, THE SET DATE IS UNCERTAIN, MAY NEED MORE RESEARCH.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	926.022	0.016	282.252	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.803 12B = -94.796 09 = -94.741 03 = -94.600

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66691.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66691.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 21033

NGS Name: RRBM 21033

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	8	113 N	18 W	443640.00	925956.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEP	SEE DESCRIPTION	NGS

Description:

Stamping:

AT HAMPTON, AT THE CHICAGO, GREAT WESTERN RAILROAD STATION, AT STATION 21033, AT THE WAITING ROOM, AND AT THE STONE STEP, THE TOP OF THE EXTREME SOUTHEAST CORNER OF THE STEPS.

Station Notes

UNABLE TO LOCATE RAILROAD STATION.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	981.396	0.016	299.130	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.508 12B = -94.504 09 = -94.445 03 = -94.288

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85274.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85274.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 21462

NGS Name: RRBM 21462

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1474](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	114 N	19 W	444253.00	930207.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1968	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SURVEY DISK	MNDT

Description:

Stamping:

IN COATES, ON THE SOUTHEAST CORNER OF THE SOUTHEAST PIER OF A WATER TANK JUST NORTH OF COATES DEPOT, 2590.0 FEET NORTH OF MILEPOST 19, ABOUT 10.0 FEET WEST OF THE WEST RAIL, AT RAILROAD STATION 21462.

Station Notes

NO DEPOT, RAILROAD, OR DEPOT IN GOOGLE PLOTS SOUTH. OF 160TH STREET SOUTHEAST, WEST OF TRUNK HIGHWAY 52.

THE RAILROAD ELEVATION IS 921.28 FEET, THE SET DATE IS UNCERTAIN, MAY NEED MORE RESEARCH.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	917.383	0.016	279.619	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -92.707 12B = -92.710 09 = -92.644 03 = -92.454

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66692.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66692.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 21588

NGS Name: RRBM 21588

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1478](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	24	115 N	18 W	444448.00	930238.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	SURVEY DISK	MNDT

Description: (2010)

Stamping:

IN RICH VALLEY, ALONG THE CHICAGO AND GREAT WESTERN RAILWAY, 800.0 FEET SOUTH OF MILEPOST 16, ON THE NORTHEAST CORNER OF THE NORTH ABUTMENT OF A STONE CULVERT, AT RAILROAD STATION 21588. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	862.032	0.016	262.748	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -92.172 12B = -92.159 09 = -92.109 03 = -91.929

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66693.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66693.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 22033

NGS Name: RRBM 22033

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1482](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	2	27 N	22 W	445114.00	930110.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED SQUARE	NGS

Description:

Stamping:

IN INVER GROVE, ON THE EXTREME NORTHWEST CORNER OF THE STONE STEPS TO THE WAITING ROOM OF DESERTEDEPOT IN INVER GROVE, AT RAILROAD STATION 22033.

Station Notes

THE RAILROAD ELEVATION IS 723.17 FEET, THE SET DATE IS UNCERTAIN, MAY NEED MORE RESEARCH.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	720.156	0.016	219.504	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -91.237 12B = -91.247 09 = -91.171 03 = -90.987

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66695.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66695.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 22106

NGS Name: RRBM 22106

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1484](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	34	28 N	22 W	445236.00	930144.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2016	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SEE DESCRIPTION	MNDT

Description: (2007)

Stamping:

1.5 MILES SOUTH FROM SOUTH ST. PAUL, 1.5 MILES SOUTH BY RAIL, ALONG THE CHICAGO AND GREAT WESTERN RAILWAY, 1625.0 FEET SOUTH OF MILEPOST S-6, THE HIGHEST POINT ON THE NORTH END OF THE CAPSTONE EAST END OF A STONE CULVERT, ABOUT 5.0 FEET EAST OF THE EAST RAIL, AT RAILROAD STATION 22106.

Station Notes

SEARCH WEST OF HARDMAN AVENUE, 0.1 MILE TO 0.25 MILE SOUTH OF TRUNK HIGHWAY 494

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	705.084	0.016	214.910	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -90.915 12B = -90.925 09 = -90.846 03 = -90.669

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66749.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66749.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 22128

NGS Name: RRBM 22128

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1485](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	28 N	22 W	445250.00	930150.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2007	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	CHISELED CROSS	NGS

Description: (2010)

Stamping:

1.2 MILES SOUTH FROM SOUTH ST. PAUL, ABOUT 1.2 MILES SOUTH BY A RAIL, ALONG THE CHICAGO AND GREAT WESTERN RAILWAY, 570.0 FEET NORTH OF MILEPOST S-6, ON THE NORTHEAST CORNER OF THE SOUTH ABUTMENT OF A RAILWAY BRIDGE NUMBER 419.11, ABOUT 2.0 FEET BELOW TOP OF THE RAIL AT RAILROAD STATION 22128.

Station Notes

THE RAILROAD IS NOW GONE, BANK PARKING LOT IS NOW IN PLACE. THE SET DATE IS UNCERTAIN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	704.044	0.016	214.593	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -90.863 12B = -90.876 09 = -90.797 03 = -90.620

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66732.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66732.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 3438+40

NGS Name: RRBM 3438+40

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0805](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	12	112 N	19 W	443101.00	930302.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	NAIL	NGS

Description: (1933)

Stamping:

2.0 MILES SOUTHWEST FROM RANDOLPH, ABOUT 2.0 MILES SOUTHWEST BY RAIL, ALONG THE CHICAGO AND GREAT WESTERN RAILWAY (OR MINNEAPOLIS, NORTHFIELD, AND SOUTHERN RAILROAD) ABOUT 0.75 MILE EAST OF WALLACE, A NAIL IN THE FOURTH TELEPHONE POLE WEST OF A FARM CROSSING, ABOUT 20.0 FEET SOUTHEAST OF THE SOUTHEAST RAIL, AT RAILROAD STATION 3438 + 40.

Station Notes

THE SET DATE IS UNKNOWN. NEW POWERLINES IN THE AREA. THE RAILROAD 'ELEVATION IS 895.87 FEET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	888.289	0.016	270.751	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.386 12B = -94.396 09 = -94.344 03 = -94.216

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66736.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66736.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RRBM 3568 64

NGS Name: RRBM 3568 64

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0808](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	8	112 N	18 W	443136.00	930100.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	CHISELED CROSS	MNDT

Description:

Stamping:

IN RANDOLPH, NEAR THE DEPOT IN RANDOLPH, IN THE NORTHWEST CORNER OF THE NORTHWEST PIER TO THE RAILROAD WATER TANK, AT RAILROAD STATION 3568 + 64 (MINNEAPOLIS, NORTHFIELD AND SOUTHERN RAILWAY), THE RAILROAD ELEVATION IS 886.02 FEET, THE SET DATE IS UNCERTAIN MAY NEED MORE RESEARCH.

Station Notes

RAILROAD WATER TANK WAS REMOVED.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	883.437	0.016	269.272	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.806 12B = -94.806 09 = -94.754 03 = -94.629

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66911.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66911.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RUHLAND

NGS Name: RUHLAND

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8577](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	31	114 N	19 W	443752.07	930813.75	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 74 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** RUHLAND 2015

IN FARMINGTON, AT THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 IN FARMINGTON, AT TRUNK HIGHWAY 3 MILEPOINT 25.4, 20.3 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 3, 163.8 FEET NORTH OF COUNTY ROAD 74/TRUNK HIGHWAY 50 EXTENDED, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: ELLIOTT - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	905.257	0.016	275.923	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -92.539 12B = -92.542 09 = -92.490 03 = -92.277

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 37 52.06733	93 08 13.74741	546736.244	158089.194	166645.540	48185.683	247.713	2015	GPS3101			
NAD83 (1996)	44 37 52.06733	93 08 13.74780	546736.216	158089.194	166645.532	48185.683	247.783	2015	HFARM2			

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RUHLAND-DP8577-3W-28OCT2022.jpg	W	Oct 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RUHLAND-DP8577-2-28OCT2022.jpg		Oct 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RUHLAND-DP8577-1-28OCT2022.jpg		Oct 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103116.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103116.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: RYAN MN037

NGS Name: RYAN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4921](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	25	27 N	24 W	444749.84	931413.58	2	3	1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	HORIZONTAL CONTROL DISK	MN-037

Description: (2011) **Stamping:** RYAN 1988

IN BURNSVILLE, 0.5 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND COUNTY ROAD 32 (CLIFF ROAD), ON THE WEST SIDE OF TRUNK HIGHWAY 13, IN THE FRONT YARD OF HOUSE NUMBER 2710, 80.0 FEET SOUTHWEST OF SOUTHBOUND TRUNK HIGHWAY 13, 53.0 FEET SOUTHWEST OF A POWER POLE, 56.0 FEET SOUTHEAST OF HOUSE NUMBER 2710, 9.8 FEET SOUTHWEST OF THE SOUTHERLY EDGE OF A SIDEWALK, 1.0 FOOT SOUTHEAST OF A WITNESS POST.

Station Notes
THE ROD DEPTH IS UNKNOWN.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	906.268	0.016	276.231	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.567 12B = -89.567 09 = -89.498 03 = -89.321

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>			<u>County (Meters)</u>			<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>		<u>X</u>	<u>Y</u>				<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 47 49.84433	93 14 13.57642		520654.686	218589.415		158695.866	66626.187		248.947	3	2020	GPSBM
NAD83 (1986)	44 47 49.83779	93 14 13.57462		520654.815	218588.752		158695.905	66625.985			C	1989	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RYAN-DO4921-3NW-20JUL2023.jpg	NW	Jul 20, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RYAN-DO4921-2-20JUL2023.jpg		Jul 20, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/RYAN-DO4921-1-20JUL2023.jpg		Jul 20, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7534.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7534.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 12

NGS Name: S 12

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	28 N	22 W	445254.00	930142.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	PIPE CAP	USACE

Description: (1934)

Stamping:

IN SOUTH ST. PAUL, 126.0 FEET NORTH OF 6TH STREET SEWER, NEAR ARMOUR COMPANY, BETWEEN A RAILROAD AND THE ARMOUR COMPANY RAILROAD TRACKS. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.879 12B = -90.892 09 = -90.810 03 = -90.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7535.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7535.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S 26

NGS Name: S 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0806](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	7	112 N	18 W	443126.00	930112.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1967	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (2010) **Stamping:** S 26 1933

IN RANDOLPH, IN THE CONCRETE FOOTING OF AN ABANDONED RAILROAD CROSSING SIGNAL, 9.0 FEET SOUTH OF THE SOUTH RAIL OF A RAILROAD, 100.0 FEET WEST OF COUNTY ROAD 83 AT THE RAILROAD BRANCH LINE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	878.056	0.016	267.632	0.005	2/0	1991	00000025
NGVD29	877.954	0.016	267.601	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.800 12B = -94.800 09 = -94.747 03 = -94.623

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location: Monument: Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/S_26-PP0806-1-08NOV2006.jpg		Nov 8, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7536.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7536.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S ST PAUL/FLEMING RNWY 16

NGS Name: S ST PAUL/FLEMING RNWY 16

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3219](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	34	28 N	22 W	445144.52	930206.66		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2023	GOOD	Horz=NO Vert=NO	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	NGS

Description: (2008)

Stamping:

LOCATED IN SOUTH ST. PAUL MUNICIPAL AIRPORT. NORTHWEST END OF THE RUNWAY 16-34. THIS IS AN UNMONUMENTED POSITION - AT THE CENTER OF THE END OF THE RUNWAY. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

CONTACT THE AIRPORT MANAGER BEFORE USE. SOUTH ST. PAUL MUNICIPAL AIRPORT. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.961 12B = -90.971 09 = -90.902 03 = -90.718

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 51 44.52045	93 02 06.65268	572992.594	242473.526	174648.492	73906.079	222.458	3	1999	17648
NAD27	44 51 44.00000	93 02 05.00000							1991	17504

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65698.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65698.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: S ST PAUL/FLEMING RNWY 34

NGS Name: S ST PAUL/FLEMING RNWY 34

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3220](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	3	27 N	22 W	445106.86	930149.89		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2023	GOOD	Horz=YES Vert=NO	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	UNMONUMENTED	NGS

Description: (2008)

Stamping:

LOCATED IN SOUTH ST. PAUL MUNICIPAL AIRPORT. SOUTHEAST END OF THE RUNWAY 16-34. THIS IS AN UNMONUMENTED POSITION - AT THE CENTER OF THE END OF THE RUNWAY. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

CONTACT THE AIRPORT MANAGER BEFORE USE. SOUTH ST. PAUL MUNICIPAL AIRPORT. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.112 12B = -91.125 09 = -91.056 03 = -90.869

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 51 06.85805	93 01 49.88708	574213.638	238663.281	175020.667	72744.714	221.812	3	1999	17648
NAD27	44 51 06.00000	93 01 49.00000							1991	17504

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_65699.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_65699.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCENIC MN053

NGS Name: SCENIC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5074](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	33	28 N	23 W	445202.44	931027.36		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MNDT

Description: (2010) **Stamping:** SCENIC 1989

IN MENDOTA HEIGHTS, 1.2 MILES SOUTHWEST ON TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55, AT A CIRCULAR SCENIC OVERLOOK WITH CIRCULAR FLAGSTONE WALL, 3.1 FEET EAST OF THE WEST WALL, 130.1 FEET SOUTH OF THE SOUTHWEST CORNER OF A WALL AT A WALK PATH NORTHWEST, 120.5 FEET NORTHWEST OF THE NORTHWEST CORNER OF A WALL AT A WALK PATH SOUTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.695 12B = -89.691 09 = -89.600 03 = -89.458

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 02. 43680	93 10 27. 35817	536923. 072	244194. 239	163654. 480	74430. 553	222. 264			2012	GPS2800	
NAD83 (2007)	44 52 02. 43666	93 10 27. 35889	536923. 021	244194. 225	163654. 464	74430. 549	222. 290			2007	GPS2300	
NAD83 (1996)	44 52 02. 43645	93 10 27. 35835	536923. 060	244194. 203	163654. 476	74430. 542	222. 337	C		1997	GPS805-	
NAD83 (1986)	44 52 02. 42996	93 10 27. 35604	536923. 227	244193. 547	163654. 527	74430. 342		C		1990	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCENIC-AC5074-2-01AUG2023.jpg		Aug 1, 2023
Disk:			Aug 1, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7537.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7537.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCHW MNDT

NGS Name: SCHW

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3470](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	113 N	17 W	443603.81	925159.22	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2014	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	HORIZONTAL CONTROL DISK	MNDT

Description: (1988) **Stamping:** SCHW 1988

0.45 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 1.2 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 50 MILEPOINT 25.25, 28.0 FEET SOUTH OF TRUNK HIGHWAY 50, 19.0 FEET EAST OF A FIELD ENTRANCE, 58.3 FEET SOUTH-SOUTHEAST OF A POWER POLE NUMBER 133-1, 3.4 FEET SOUTH-SOUTHWEST OF A GUY POLE, 3.2 FEET SOUTH OF A WITNESS POST.

Station Notes

POOR CONDITION, THE DISK HAS BEEN HIT BY A COUNTY MOWER AND THE DISK IS LEANING WEST.
 THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1043.292	0.016	317.996	0.005	2/1	1995	00000136
NGVD29	1043.141	0.016	317.950	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.443 12B = -96.437 09 = -96.371 03 = -96.230

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 36 03.80728	92 51 59.22360	617272.800	147397.682	188145.126	44926.903	288.599			2012	GPS2800	
NAD83 (2007)	44 36 03.80740	92 51 59.22418	617272.758	147397.694	188145.113	44926.907	288.628			2007	GPS2300	
NAD83 (1996)	44 36 03.80715	92 51 59.22384	617272.783	147397.669	188145.120	44926.899	288.672	C		2004	GPS2041	
NAD83 (1986)	44 36 03.79931	92 51 59.22094	617272.998	147396.877	188145.186	44926.658		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW-PP3470-3SE-26JUL2011.jpg	SE	Jul 26, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW-PP3470-2-26JUL2011.jpg		Jul 26, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW-PP3470-1-14AUG2011.jpg		Aug 14, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7538.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7538.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCHW MNDT RESET

NGS Name: SCHW RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1064](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	113 N	17 W	443603.81	925159.22	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** SCHW 1988 2014

2.45 MILES WEST OF MIESVILLE, 0.45 MILE WEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 50 MILEPOINT 25.25, 68.7 FEET SOUTHWEST OF SCHW MNDT RM 1, 38.7 FEET WEST OF SCHW MNDT RM 2, 28.0 FEET SOUTH OF TRUNK HIGHWAY 50, 19.0 FEET EAST OF FIELD ENTRANCE, 3.4 FEET SOUTH-SOUTHWEST OF A POWER POLE, 3.2 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1043.052	0.016	317.923	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.443 12B = -96.437 09 = -96.371 03 = -96.230

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RESET-DQ1064-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RESET-DQ1064-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RESET-DQ1064-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102804.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102804.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCHW MNDT RM 1

NGS Name: SCHW RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3468](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	9	113 N	17 W	443604.38	925158.71	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** SCHW NO 1 1988

2.45 MILES WEST OF MIESVILLE, 0.45 MILE WEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 50 MILEPOINT 25.25, 68.7 FEET NORTHEAST OF STATION SCHW MNDT RESET, 57.5 FEET NORTH OF STATION SCHW MNDT RM 2, 30.0 FEET NORTH OF TRUNK HIGHWAY 50, 24.0 FEET EAST OF DRIVEWAY NUMBER 11843, 41.0 FEET EAST OF A POWER POLE NUMBER 133-1. FOUND ONLY BROKEN POST, ROAD AND DRIVEWAY HAVE BEEN WIDENED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1042.908	0.016	317.879	0.005	2/1	2016	00000879
NGVD29	1042.846	0.016	317.860	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.443 12B = -96.437 09 = -96.371 03 = -96.230

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_1-PP3468-3N-08AUG2011.jpg	N	Aug 8, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_1-PP3468-2-22OCT2014.jpg		Oct 22, 2014
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_1-PP3468-1-22OCT2014.jpg		Oct 22, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7539.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7539.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCHW MNDT RM 2

NGS Name: SCHW RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3469](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	113 N	17 W	443603.81	925158.69	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	REFERENCE MARK DISK	MNDT

Description: (2014) **Stamping:** SCHW NO 2 1988

2.45 MILES WEST OF MIESVILLE, 0.45 MILE WEST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 50 MILEPOINT 25.25, 38.7 FEET EAST OF STATION SCHW MNDT RESET, 57.5 FEET NORTH OF STATION SCHW MNDT RM 1, 28.0 FEET SOUTH OF TRUNK HIGHWAY 50, 22.0 FEET EAST OF AN EXTENDED DRIVEWAY NUMBER 11843, 72.0 FEET SOUTHEAST OF A POWER POLE NUMBER 133-1, 37.4 FEET EAST OF A POWER POLE, 1.0 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1042.262	0.016	317.682	0.005	2/1	2016	00000879
NGVD29	1042.117	0.016	317.638	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.447 12B = -96.437 09 = -96.371 03 = -96.233

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_2-PP3469-3S-29SEP2022.jpg	S	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_2-PP3469-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_2-PP3469-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7540.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7540.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCHW MNDT RM 3

NGS Name: SCHW RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3467](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	9	113 N	17 W	443605.00	925114.00	2		1988	2006	DESTROYED		NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	REFERENCE MARK DISK	MNDT

Description: (1988) **Stamping:** SCHW NO 3 1988

1.05 MILES WEST OF MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 107.5, 0.05 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50, 55.0 FEET NORTH OF TRUNK HIGHWAY 61, 10.0 FEET SOUTH-SOUTHWEST OF A DIRT ROAD, 66.0 FEET WEST OF A BITUMINOUS ENTRANCE, 86.5 FEET SOUTHWEST OF A POWER POLE NUMBER 1-1, 2.9 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK IS MISSING, NEW DISK PLACED ON EXISTING ROD AND STAMPED SCHW NO 3 RESET 1988 2003.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	961.409	0.016	293.038	0.005	2/1	1995	00000136
NGVD29	961.255	0.016	292.991	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.604 12B = -96.594 09 = -96.525 03 = -96.391

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 36 04.50562	92 51 13.30170	620595.084	147487.038	189157.760	44954.139			C	1989	HCANN	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7541.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7541.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCHW MNDT RM 3 RESET

NGS Name: SCHW RM 3 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DG7756](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	9	113 N	17 W	443604.51	925113.30		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2003	2014	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SURVEY DISK	MNDT

Description: (2011) **Stamping:** SCHW NO 3 RESET 1988 2003

1.05 MILES WEST OF MIESVILLE, AT TRUNK HIGHWAY 61 MILEPOINT 107.5, 0.05 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50, 55.0 FEET NORTH OF TRUNK HIGHWAY 61, 10.0 FEET SOUTH-SOUTHWEST OF A DIRT ROAD, 66.0 FEET WEST OF A BITUMINOUS ENTRANCE, 86.5 FEET SOUTHWEST OF A POWER POLE NUMBER 1-1, 58.0 FEET WEST OF DRIVEWAY FIRE NUMBER 12455, 13.5 FEET NORTHWEST OF NORTHWEST POST FOR A ROAD SIGN, 1.0 FOOT NORTH OF A WITNESS POST.

Station Notes
THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.607 12B = -96.598 09 = -96.529 03 = -96.391

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 36 04. 51297	92 51 13. 30488	620594. 850	147487. 780	189157. 689	44954. 365	263. 607			2012	GPS2800	
NAD83 (2007)	44 36 04. 51315	92 51 13. 30582	620594. 782	147487. 798	189157. 668	44954. 371	263. 623			2007	GPS2300	
NAD83 (1996)	44 36 04. 51289	92 51 13. 30539	620594. 813	147487. 772	189157. 677	44954. 363	263. 664	C		2004	GPS2041	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_3_RESET-DG7756-3NE-26JUL2011.jpg	NE	Jul 26, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_3_RESET-DG7756-2-25JUL2011.jpg		Jul 25, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_3_RESET-DG7756-1-25JUL2011.jpg		Jul 25, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_50522.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50522.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCHW MNDT RM 3 RESET 2

NGS Name: SCHW RM 3 RESET 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1086](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	9	113 N	17 W	443604.51	925113.30	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 13 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2023) **Stamping:** SCHW NO 3 RESET 2003 2014

2.0 MILES WEST OF MIESVILLE, 0.05 MILE EAST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 50 (THE JUNCTION IS 2.0 MILES WEST OF MIESVILLE), AT TRUNK HIGHWAY 61 MILEPOINT 107.5, 55.0 FEET NORTH OF TRUNK HIGHWAY 61, 58.0 FEET WEST OF DRIVEWAY NUMBER 12455, 10.0 FEET SOUTH-SOUTHWEST OF A DIRT ROAD, 1.0 FOOT SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	961.278	0.016	292.998	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.607 12B = -96.598 09 = -96.529 03 = -96.391

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_3_RESET_2-DQ1086-3N-29SEP2022.jpg	N	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_3_RESET_2-DQ1086-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCHW_RM_3_RESET_2-DQ1086-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102808.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102808.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCIOT

NGS Name: SCIOT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ7234](#) [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	25	112 N	19 W	442819.49	930256.80	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 27 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** SCIOT 2016

5.5 MILES EAST OF NORTHFIELD, 6.0 MILES EASTERLY ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD, AT TRUNK HIGHWAY 19 MILEPOINT 182.40, 60.2 FEET NORTH OF TRUNK HIGHWAY 19, 45.5 FEET WEST OF BOYD AVENUE, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: WELLS - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	917.944	0.016	279.790	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -94.504 12B = -94.508 09 = -94.478 03 = -94.350

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCIOT-DQ7234-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCIOT-DQ7234-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCIOT-DQ7234-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106527.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106527.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCIOTA MN037

NGS Name: SCIOTA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5075](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	12	112 N	19 W	443146.66	930332.89		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (NO SLEEVE) (DEPTH 3 FT)	SURVEY DISK	MNDT

Description: (2006) **Stamping:** SCIOTA 1991

2.0 MILES WEST OF RANDOLPH, IN SCIOTA TOWNSHIP, 0.6 MILE EAST ALONG COUNTY ROAD 88 FROM THE JUNCTION OF COUNTY ROAD 88 AND COUNTY ROAD 47, 21.0 FEET SOUTH OF COUNTY ROAD 88, 12.0 FEET EAST OF A FIELD ENTRANCE, 1.6 FEET WEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.216 12B = -94.226 09 = -94.173 03 = -94.035

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 31 46.66182	93 03 32.89078	567164.449	121137.127	172872.070	36922.670	254.479			2012	GPS2800	
NAD83 (2007)	44 31 46.66189	93 03 32.89150	567164.397	121137.134	172872.054	36922.672	254.503			2007	GPS2300	
NAD83 (1996)	44 31 46.66170	93 03 32.89184	567164.372	121137.115	172872.046	36922.666	254.536	C		2000	GPS1517	
NAD83 (1986)	44 31 46.65356	93 03 32.88965	567164.532	121136.290	172872.095	36922.415		C		1992	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCIOTA-AC5075-3S-25OCT2022.jpg	S	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCIOTA-AC5075-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCIOTA-AC5075-1-13APR2020.jpg		Apr 13, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7542.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7542.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SCRAP

NGS Name: SCRAP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4930](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	28 N	23 W	445317.18	930932.40	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 90 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** SCRAP 2011

IN MENDOTA HEIGHTS, 1.04 MILES NORTH ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 110 IN MENDOTA HEIGHTS, AT MILEPOINT 108.27, 111.7 FEET SOUTH OF TRUNK HIGHWAY 13, 73.5 FEET NORTHWEST OF A POWER POLE, 66.2 FEET EAST OF A POWER POLE, 22.6 FEET NORTH OF A BIKE PATH, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	766.859	0.016	233.739	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.711 12B = -89.711 09 = -89.632 03 = -89.475

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 17.18099	93 09 32.40344	540866.530	251771.702	164856.448	76740.168	206.383			2014	GPS2981	
NAD83 (1996)	44 53 17.18071	93 09 32.40368	540866.513	251771.674	164856.443	76740.160	206.464	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCRAP-DO4930-3S-03AUG2023.jpg	S	Aug 3, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCRAP-DO4930-2-03AUG2023.jpg		Aug 3, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SCRAP-DO4930-1-03AUG2023.jpg		Aug 3, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95076.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95076.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SE 33 115 18 MN037

NGS Name: SE 33 115 18

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	115 N	18 W	444300.49	925827.67		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SURVEY DISK	MN-037

Description: (2007)

Stamping:

STATION SE 33 115 18 MN037 IS A CAST IRON MONUMENT, IN THE SOUTHEAST CORNER OF ROSEMOUNT, 3.0 MILES EAST OF THE JUNCTION OF COUNTY ROAD 48 AND TRUNK HIGHWAY 52, IN THE CENTER OF COUNTY ROAD 48, 2.0 FEET EAST OF THE CENTER OF FISCHER AVENUE (SOUTH), 55.0 FEET SOUTH-SOUTHWEST OF A TELEPHONE POLE, 57.0 FEET NORTHWEST OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.520 12B = -93.530 09 = -93.471 03 = -93.284

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 00.49951	92 58 27.67618	588988.740	189461.885	179524.127	57748.098			C	1990	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SE_33_115_18-3N-19OCT2022.jpg	N	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SE_33_115_18-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SE_33_115_18-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7543.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7543.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHANNON MN037

NGS Name: SHANNON

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	115 N	19 W	444317.22	930849.01		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2000) **Stamping:** SHANNON 1988

IN ROSEMOUNT, 0.7 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 42 AND SHANNON PARKWAY, 24.0 FEET WEST OF SHANNON PARKWAY, 6.5 FEET SOUTH-SOUTHEAST OF A NO PARKING SIGN, THE COUNTY RAN LEVELS TO THE STATION IN 1992.

Station Notes

THE TIES FALL ON A SIDEWALK, NO EVIDENCE OF THE MONUMENT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.309 12B = -91.302 09 = -91.237 03 = -91.030

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 43 17.22994	93 08 49.01004	544117.458	191015.245	165847.333	58221.563			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7544.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7544.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHAW MNDT

NGS Name: SHAW

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1367](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/1135
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	115 N	20 W	444522.70	931539.18	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (1989) **Stamping:** SHAW 1963

4.0 MILES SOUTH OF BLOOMINGTON, ON A HIGH OPEN HILL, 300.0 FEET WEST OF INTERSTATE HIGHWAY 35E, 5.0 FEET NORTH-NORTHEAST OF A WITNESS POST, 175.6 FEET NORTH OF AN EAST-WEST FENCE LINE.

Station Notes

UNABLE TO LOCATE WITH GIVEN TIES.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1121.307	0.016	341.775	0.005	2/0	1991	00000025
NGVD29	1121.087	0.016	341.708	0.005	2	1973	L22832

Geoid Separations(ft): GEOID18 = -89.645 12B = -89.642 09 = -89.593 03 = -89.399

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 45 22.69955	93 15 39.17578	514492.123	203681.596	156817.513	62082.275	314.534	2	1999	17648				
NAD83 (1986)	44 45 22.69320	93 15 39.17365	514492.276	203680.953	156817.560	62082.079		2	1986	17289				
NAD27	44 45 22.82051	93 15 38.37368						2	1979	15198				

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7545.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7545.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHAW MNDT RM 1

NGS Name: SHAW RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1368](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/1135
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	20	115 N	20 W	444514.20	931455.38	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1989) **Stamping:** SHAW NO.1 1963

4.0 MILES SOUTH OF BLOOMINGTON, 3.8 FEET SOUTH OF A WITNESS POST, 5.2 FEET WEST OF A POWER POLE, 20.8 FEET NORTH OF A FARM ENTRANCE, 37.0 FEET SOUTHEAST OF A ROAD.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	965.464	0.016	294.274	0.005	2/0	1991	00000025
NGVD29	965.241	0.016	294.206	0.005	2	1973	L22832

Geoid Separations(ft): GEOID18 = -89.780 12B = -89.777 09 = -89.728 03 = -89.531

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 45 14.19785	93 14 55.38006	517653.280	202822.956	157781.035	61820.561	266.993	2	1999	17648		
NAD83 (1986)	44 45 14.19301	93 14 55.38517	517652.912	202822.465	157780.923	61820.411		2	1986	17289		
NAD27	44 45 14.31999	93 14 54.58812						2	1979	15198		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7546.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7546.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SHAW MNDT RM 2

NGS Name: SHAW RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1366](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/1135
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	19	115 N	20 W	444514.21	931531.34	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO		PROJECTS 2 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (1995) **Stamping:** SHAW NO. 2 1963

4.0 MILES SOUTH OF BLOOMINGTON, 5.6 FEET SOUTH-SOUTHWEST OF A WITNESS POST, 28.2 FEET NORTH-NORTHWEST OF A POWER POLE, 20.5 FEET EAST OF A POWER SUB-STATION DRIVE, 7.7 FEET SOUTH OF A STEEL CORNER FENCE POST, 23.3 FEET SOUTH-SOUTHEAST OF A POWER POLE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1047.793	0.016	319.368	0.005	2/0	1991	00000025
NGVD29	1047.570	0.016	319.300	0.005	2	1973	L22832

Geoid Separations(ft): GEOID18 = -89.685 12B = -89.682 09 = -89.632 03 = -89.439

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>				<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 45 14.20889	93 15 31.33507	515058.545	202822.068	156990.159	61820.290	292.116	2	1999	17648				
NAD83 (1986)	44 45 14.20397	93 15 31.33419	515058.609	202821.570	156990.178	61820.138		2	1986	17289				
NAD27	44 45 14.33195	93 15 30.53561						2	1979	15198				

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7547.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7547.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SIBLEY MN037

NGS Name: SIBLEY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5076](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	23	28 N	23 W	445414.85	930800.64	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1988	2023	GOOD	Horz=YES Vert=YES	YES		FLUSH	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 5 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2006) **Stamping:** SIBLEY 1988

IN MENDOTA HEIGHTS, 0.2 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35E, NEAR EAST END OF TRUNK HIGHWAY 13 BRIDGE OVER COUNTY ROAD 45 (LILYDALE ROAD), 17.0 FEET NORTH-NORTHEAST OF THE NORTHEAST CORNER OF A BRIDGE, 44.0 FEET NORTHWEST OF TRUNK HIGHWAY 13, 24.0 FEET SOUTH OF A POWER POLE, 2.0 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	794.060 0.016	242.030 0.005	2/1	2020 00000955

Geoid Separations(ft): GEOID18 = -89.829 12B = -89.826 09 = -89.754 03 = -89.586

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 54 14.84588	93 08 00.63662	547460.526	257625.911	166866.302	78524.535	214.644			2021	GPS3438	
NAD83 (2007)	44 54 14.84573	93 08 00.63727	547460.479	257625.896	166866.288	78524.530	214.663			2007	GPS2300	
NAD83 (1996)	44 54 14.84550	93 08 00.63672	547460.519	257625.873	166866.300	78524.523	214.701	C		2021	HDODD2	
NAD83 (1986)	44 54 14.83833	93 08 00.63343	547460.755	257625.147	166866.372	78524.302		C		1989	C019	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SIBLEY-AC5076-3NW-08AUG2023.jpg	NW	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SIBLEY-AC5076-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SIBLEY-AC5076-1-08AUG2023.jpg		Aug 8, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7548.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7548.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SIMMONS MRC

NGS Name: SIMMONS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	30	115 N	17 W	444431.76	925405.09		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	1929	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (CAPPED) DRIVEN IN GROUND (<10 FT)	PIPE CAP	MRC

Description: (1929)

Stamping:

3.0 MILES WEST-NORTHWEST OF HASTINGS, 0.2 MILE WEST-NORTHWEST ALONG 11TH STREET WEST FROM THE JUNCTION OF 11TH STREET WEST AND TRUNK HIGHWAY 61 IN HASTINGS, THEN 2.4 MILES WEST-NORTHWEST AND WEST ALONG TRUNK HIGHWAY 55 WEST IN HASTINGS, THEN 0.3 MILE NORTH ALONG JACOB AVENUE. STATION SIMMONS MRC IS A TILE AND PIPE ON THE RIGHT BANK OF THE MISSISSIPPI RIVER IN THE EDGE OF TIMBER 6.6 FEET FROM LAND LINE BETWEEN PROPERTIES OF WILLIAM SIMMONS AND EAST. D. WILSON 492.1 FEET WEST OF THE CORNER OF TIMBER 0.25 MILE SOUTH AND 984.2 FEET EAST OF COUNTY ROADS AND 0.25 MILE SOUTHEAST OF A FRAME HOUSE ON THE PROPERTY OF WILLIAM SIMMONS. PIPE WAS GONE IN 1924, BUT TILE WAS PROBABLY STILL IN PLACE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.367 12B = -94.393 09 = -94.373 03 = -94.144

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_96884.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_96884.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SODERGREN

NGS Name: SODERGREN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1044](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NE	3	113 N	19 W	443749.10	930432.87	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 37 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** SODERGREN 2015

3.0 MILES EAST OF FARMINGTON, 3.0 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, AT TRUNK HIGHWAY 50 MILEPOINT 13.75, 39.0 FEET SOUTH OF TRUNK HIGHWAY 50, 29.6 FEET WEST OF ANNETTE AVENUE, 1.5 FEET EAST OF A WITNESS POST.

Station Pair: LARRY - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	914.011	0.016	278.591	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.320 12B = -93.317 09 = -93.264 03 = -93.074

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions			County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year			Reference	
NAD83 (2011)	44 37 49.09537	93 04 32.87390	562710.411	157829.435	171514.476	48106.508	250.143	2016	C	GPS3148	
NAD83 (1996)	44 37 49.09534	93 04 32.87438	562710.377	157829.432	171514.466	48106.507	250.203	2016	C	HTRIER	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SODERGREN-DQ1044-3S-21OCT2022.jpg	S	Oct 21, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SODERGREN-DQ1044-2-21OCT2022.jpg		Oct 21, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SODERGREN-DQ1044-1-21OCT2022.jpg		Oct 21, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103117.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103117.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SOUTH ST PAUL N MUNICIPAL TANK

NGS Name: SOUTH ST PAUL N MUNICIPAL TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2504](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/1142
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	28 N	22 W	445406.56	930329.38		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1964	2023	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	ELEVATED TANK	MNDT

Description: (2004)

Stamping:

IN THE NORTHWEST PART OF SOUTH ST. PAUL. IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF THOMPSON AND 19TH AVENUE NORTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.423 12B = -90.423 09 = -90.361 03 = -90.184

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 54 06.55814	93 03 29.38106	566987.925	256839.466	172818.265	78284.826		4	1999	17648
NAD83 (1986)	44 54 06.55061	93 03 29.37780	566988.162	256838.704	172818.337	78284.594		4	1986	17289
NAD27	44 54 06.67095	93 03 28.59564						4	1965	13600

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOUTH_ST_PAUL_N_MUNICIPAL_TANK-PP2504-3W-08AUG2023.jpg	W	Aug 8, 2023
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7550.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7550.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SOUTH ST PAUL STANDPIPE

NGS Name: SOUTH ST PAUL STANDPIPE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM6927](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	21	28 N	22 W	445405.73	930326.60		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2023	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	STANDPIPE TANK	MNDT

Description: (2012)

Stamping:

IN THE NORTH PART OF SOUTH ST. PAUL, 0.3 MILE EAST OF TRUNK HIGHWAY 52 (LAFAYETTE FREEWAY), AT THE NORTHWEST CORNER OF THOMPSON AVENUE AND 19TH AVENUE NORTH, TOP CENTER OF TANK. ALREADY DESCRIBED AS SOUTH ST. PAUL NORTH MUNICIPAL TANK (ACRN PP2504), THE NATIONAL GEODETIC SURVEY (NGS) DATA FOR PID AM6927 HAS BEEN DISCONTINUED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.430 12B = -90.433 09 = -90.371 03 = -90.190

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOUTH_ST_PAUL_STANDPIPE-AM6927-3NW-27NOV2006.jpg	NW	Nov 27, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7551.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7551.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SOUTH ST PAUL W MUNICIPAL TANK

NGS Name: SOUTH ST PAUL W MUNICIPAL TANK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2523](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/1143
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	21	28 N	22 W	445337.69	930321.91		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2004	DESTROYED	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	TANK	NGS

Description: (2006)

Stamping:

IN THE NORTHWEST PART OF SOUTH ST. PAUL, IN THE SOUTHWEST QUADRANT OF 17TH AVENUE NORTH AND 3RD STREET NORTH.

Station Notes

THIS WAS PUMPING STATION NUMBER 5 - 259 17TH AVENUE NORTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.489 12B = -90.492 09 = -90.433 03 = -90.249

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 53 37.69155	93 03 21.91063	567535.016	253917.537	172985.019	77394.220	4	1999	17648			
NAD83 (1986)	44 53 37.68396	93 03 21.90616	567535.340	253916.769	172985.118	77393.986	4	1986	17289			
NAD27	44 53 37.80440	93 03 21.12674					4	1965	13600			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOUTH_ST_PAUL_W_MUNICIPAL_TANK-PP2523-3S-27NOV2006.jpg	S	Nov 27, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SOUTH_ST_PAUL_W_MUNICIPAL_TANK-PP2523-2-27NOV2006.jpg		Nov 27, 2006

Disk:

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7552.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7552.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SPLIT

NGS Name: SPLIT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ3485](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	11	114 N	18 W	444208.40	925525.47		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 59 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** SPLIT 2014

7.0 MILES SOUTHEAST OF ROSEMOUNT, 4.7 MILES SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 52 IN ROSEMOUNT, TO TRUNK HIGHWAY 55 MILEPOINT 215.45, THEN 2.7 MILES SOUTH ON COUNTY ROAD 85 (GOODWIN AVENUE), THEN 0.50 MILE EAST ON 170TH AVENUE, 22.0 FEET SOUTH OF 170TH AVENUE, 17.0 FEET WEST OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.586 12B = -94.590 09 = -94.521 03 = -94.357

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 42 08.40134	92 55 25.47196	602171.461	184244.954	183542.228	56157.974	221.265		2016	GPS3152
NAD83 (1996)	44 42 08.40120	92 55 25.47232	602171.435	184244.940	183542.221	56157.970	221.327	C	2016	HDAK2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SPLIT-DQ3485-3S-19OCT2022.jpg	S	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SPLIT-DQ3485-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SPLIT-DQ3485-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102088.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102088.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STA 1360+56

NGS Name: STA 1360+56

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	114 N	19 W	444109.00	930809.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2014	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2011)

Stamping:

3.0 MILES NORTH OF FARMINGTON, 3.3 MILES NORTH OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50, 71.0 FEET EAST OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 1360+56.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.939 12B = -91.932 09 = -91.883 03 = -91.673

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7553.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7553.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STA 1821+66

NGS Name: STA 1821+66

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u> <u>Sec</u> <u>Twp</u> <u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW 19 27 N 22 W	444830.00	930618.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1953	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CULVERT - ANY SIZE, ANY TYPE	SURVEY DISK	MNDT

Description: (1996)

Stamping:

IN THE SOUTHWEST CORNER OF THE SOUTH HEADWALL OF A TRUNK HIGHWAY 3 BOX CULVERT, 40.0 FEET RIGHT OF TRUNK HIGHWAY 3, AT TRUNK HIGHWAY 3 STATION 1821+66.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.708 12B = -90.708 09 = -90.643 03 = -90.456

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7554.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7554.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: STAKE MN037

NGS Name: STAKE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3224](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	2	27 N	22 W	445052.97	930123.60		C	1988	2023	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	SURVEY DISK	MNDT

Description: (1988) **Stamping:** STAKE 1988

IN INVER GROVE HEIGHTS, 0.15 MILE WEST OF THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 26 (70TH STREET EAST), IN A MEDIAN, IN FRONT OF HOUSE NUMBER 4045, 15.0 FEET SOUTH OF WESTBOUND COUNTY ROAD 26, 123.0 FEET WEST OF A GUY POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.243 12B = -91.253 09 = -91.184 03 = -910000

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 50 52.97372	93 01 23.60211	576112.376	237263.816	175599.403	72318.156	219.935		2012	GPS2800
NAD83 (2007)	44 50 52.97384	93 01 23.60296	576112.315	237263.828	175599.385	72318.159	219.963		2007	GPS2300
NAD83 (1996)	44 50 52.97358	93 01 23.60253	576112.346	237263.801	175599.394	72318.151	220.016	C	1999	17648
NAD83 (1986)	44 50 52.96622	93 01 23.59885	576112.614	237263.056	175599.476	72317.924		C	1989	C019
NAD27	44 50 53.08722	93 01 22.82654						2	1991	17504

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:			
Monument:			
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/STAKE-PP3224-1-30NOV2006.jpg		Nov 30, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7555.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7555.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUB MNDT TEMP

NGS Name: SUB TEMP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2604](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	36	114 N	20 W	443831.76	930926.43		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	UNMONUMENTED	MNDT

Description: (1980) **Stamping:** SUB 1980

AT THE WEST EDGE OF FARMINGTON, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 50 AND COUNTY ROAD 31, 24.5 FEET WEST OF COUNTY ROAD 31, 177.0 FEET NORTH OF TRUNK HIGHWAY 50, 41.51 FEET SOUTHEAST OF A SURVEY REFERENCE POINT (SRP) IN POST, 26.86 FEET EAST-SOUTHEAST OF A STEEL POST, 36.43 FEET NORTHEAST OF A STEEL POST.

Station Notes

COUNTY ROAD 31 HAS BEEN WIDENED. 9-13-2011 STEEL POSTS REMOVED, DITCHES GRADED, SEWER LINES RUN IN DITCH AREA, THE TIES FALL IN THE EDGE OF THE PAVEMENT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.178 12B = -92.182 09 = -92.126 03 = -91.906

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>			<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>		<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 38 31.76167	93 09 26.42657		541472.312	162098.361	165041.091	49407.679	249.513	2	1999	17648
NAD83 (1986)	44 38 31.75419	93 09 26.42546		541472.394	162097.604	165041.116	49407.448		2	1986	17289
NAD27	44 38 31.87944	93 09 25.64455							2	1982	16778

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7556.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7556.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNFISH MNDT

NGS Name: SUNFISH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1296](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1095
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	32	28 N	22 W	445155.60	930422.58	2	2	1963	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2011) **Stamping:** SUNFISH 1963

5.5 MILES SOUTH-SOUTHEAST OF ST. PAUL, IN INVER GROVE HEIGHTS, 0.4 MILE EAST ALONG UPPER 55TH STREET/OLD SALEM CHURCH ROAD FROM THE JUNCTION OF UPPER 55TH STREET AND TRUNK HIGHWAY 3, THEN 0.15 MILE SOUTH ALONG ASHER AVENUE, IN SALEM HILLS PARK, 130.0 FEET WEST OF A WATER TOWER, 47.5 FEET NORTHEAST OF A HYDRANT, 15.5 FEET EAST OF A PARKING LOT CURB, 14.5 FEET WEST OF THE END OF A FENCE, 6.0 FEET NORTHWEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1012.111	0.016	308.492	0.005	2/1	2020	00000955
NGVD29	1011.937	0.016	308.439	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.515 12B = -90.521 09 = -90.472 03 = -90.269

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 51 55.59773	93 04 22.57650	563198.515	243563.865	171663.251	74238.415	280.981	2	1999	17648		
NAD83 (1986)	44 51 55.59033	93 04 22.57315	563198.759	243563.116	171663.325	74238.186		2	1986	17289		
NAD27	44 51 55.71328	93 04 21.79179						2	1965	13600		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH-PP1296-3E-10AUG2023.jpg	E	Aug 10, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH-PP1296-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH-PP1296-1-10AUG2023.jpg		Aug 10, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7557.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7557.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNFISH MNDT RM 1

NGS Name: SUNFISH RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1297](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1095
 USGS Quad: INVER GROVE HEIGHTS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	32	28 N	22 W	445208.88	930446.30	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1963	2009	DESTROYED	Horz=NO Vert=NO	YES		PROJECTS 3 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2006) **Stamping:** SUNFISH NO 1 1963

IN SUNFISH LAKE, 2.6 MILES EAST ALONG INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE 35 EAST IN MENDOTA HEIGHTS, THEN 0.4 MILE EAST ALONG 60TH STREET, THEN 0.5 MILE NORTHEAST ALONG SOUTH ROBERT TRAIL, ACROSS UPPER 55TH STREET FROM ADDRESS NUMBER 1292, 175.0 FEET EAST OF SOUTH ROBERT STREET, 38.7 FEET NORTH OF UPPER 55TH STREET, 117.8 FEET EAST OF AN ANCHOR POLE FOR A POWER POLE, 77.8 FEET NORTH-NORTHWEST OF A POWER POLE, 69.4 FEET NORTHEAST OF A STEEL MAILBOX POST, 8.0 FEET WEST OF A UTILITY BOX, 3.6 FEET WEST OF A WITNESS POST.

Station Notes

THE DISK WAS TURNED IN TO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	991. 717	0. 016	302. 276	0. 005	2/0	1991	00000025
NGVD29	991. 543	0. 016	302. 223	0. 005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.430 09 = -90.380 03 = -90.177

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)				County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 52 08. 88379	93 04 46. 29505	561486. 216	244904. 441	171141. 341	74647. 023	274. 717					2012	GPS2800	
NAD83 (2007)	44 52 08. 88362	93 04 46. 29591	561486. 155	244904. 423	171141. 322	74647. 018	274. 754	C	2009	GPS2590				
NAD83 (1996)	44 52 08. 88341	93 04 46. 29534	561486. 196	244904. 402	171141. 335	74647. 011	274. 805	C	2009	HINVR				
NAD83 (1986)	44 52 08. 87713	93 04 46. 29030	561486. 560	244903. 767	171141. 446	74646. 818		2	1986	17289				
NAD27	44 52 09. 00122	93 04 45. 50914						2	1965	13600				

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH_RM_1-PP1297-3N-18MAR2009.jpg	N	Mar 18, 2009
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH_RM_1-PP1297-2-18MAR2009.jpg		Mar 18, 2009
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH_RM_1-PP1297-1-18MAR2009.jpg		Mar 18, 2009

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7558.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7558.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUNFISH MNDT RM 2

NGS Name: SUNFISH RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1295](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1095
 USGS Quad: INVER GROVE HEIGHTS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	32	28 N	22 W	445207.50	930357.80	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	DESTROYED	Horz=NO Vert=YES	YES		RECESSED 12 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2009) **Stamping:** SUNFISH NO 2 1963

IN SUNFISH LAKE, 2.6 MILES EAST ALONG INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND INTERSTATE HIGHWAY 35E IN MENDOTA HEIGHTS, THEN 0.5 MILE EAST ALONG 60TH STREET, THEN 0.5 MILE NORTHEAST ALONG SOUTH ROBERT TRAIL, THEN 0.7 MILE EAST AND SOUTHEAST ALONG UPPER 55TH STREET, THEN 0.1 MILE NORTH ALONG BABCOCK TRAIL, 120.0 FEET SOUTH OF 55TH STREET EAST, 21.4 FEET WEST OF BABCOCK TRAIL, 5.9 FEET SOUTH OF A POWER POLE, 4.3 FEET NORTH-NORTHEAST OF A WITNESS POST. NEW POWER POLE IN PLACE WHERE CONCRETE MONUMENT WAS.

Station Notes

NEW POWER POLE IN PLACE WHERE CONCRETE MONUMENT WAS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	959.782	0.016	292.542	0.005	2/1	2020	00000955
NGVD29	959.624	0.016	292.494	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.558 12B = -90.567 09 = -90.518 03 = -90.311

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1996)	44 52 07.50029	93 03 57.79635	564979.649	244774.780	172206.141	74607.502	265.023	2	1999	17648
NAD83 (1986)	44 52 07.49294	93 03 57.79271	564979.913	244774.036	172206.222	74607.276		2	1986	17289
NAD27	44 52 07.61566	93 03 57.01228						2	1965	13600

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH_RM_2-PP1295-3W-30AUG2011.jpg	W	Aug 30, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH_RM_2-PP1295-2-10AUG2023.jpg		Aug 10, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUNFISH_RM_2-PP1295-1-30AUG2011.jpg		Aug 30, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7559.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7559.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SUSAN

NGS Name: SUSAN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4918](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	27 N	24 W	444658.68	931550.20	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 40 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** SUSAN 2011

IN BURNSVILLE, 1.3 MILES NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W, AT TRUNK HIGHWAY 13 MILEPOINT 98.80, 47.8 FEET SOUTH OF THE NORTH FRONTAGE ROAD, 31.7 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 13, 17.2 FEET SOUTH OF A BIKE PATH, 1.5 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.736	0.016	280.336	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.445 12B = -89.442 09 = -89.383 03 = -89.193

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 46 58.68325	93 15 50.20055	513690.246	213402.194	156573.100	65045.119	253.063			2014	GPS2981	
NAD83 (1996)	44 46 58.68297	93 15 50.20073	513690.233	213402.166	156573.096	65045.110	253.149	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUSAN-DO4918-3N-17AUG2023.jpg	N	Aug 17, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUSAN-DO4918-2-17AUG2023.jpg		Aug 17, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SUSAN-DO4918-1-23NOV2011.jpg		Nov 23, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95069.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95069.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SW 33 115 18 MN037

NGS Name: SW 33 115 18

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	33	115 N	18 W	444301.11	925940.91		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1978	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON MONUMENT (CAST IRON)	SURVEY DISK	MN-037

Description: (1990)

Stamping:

STATION SW 33 115 18 MN037 IS A CAST IRON MONUMENT, IN THE SOUTHEAST CORNER OF ROSEMOUNT, 2.0 MILES EAST OF THE JUNCTION OF COUNTY ROAD 48 AND TRUNK HIGHWAY 52, IN THE CENTER OF EMERY AVENUE, 13.0 FEET NORTH OF THE CENTER OF COUNTY ROAD 48, 51.0 FEET SOUTHEAST OF A TELEPHONE POLE, 69.0 FEET NORTH-NORTHWEST OF A POWER POLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.215 12B = -93.222 09 = -93.163 03 = -92.979

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 43 01.11493	92 59 40.91000	583700.151	189502.643	177912.162	57760.521		C	1990	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SW_33_115_18-3S-19OCT2022.jpg	S	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SW_33_115_18-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SW_33_115_18-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7560.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7560.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: SYNAP

NGS Name: SYNAP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ8792](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	30	27 N	23 W	444811.42	931320.81	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** SYNAP 2017

IN EAGAN, 1.7 MILES NORTH ALONG TRUNK HIGHWAY 77 FROM THE JUNCTION OF TRUNK HIGHWAY 77 AND INTERSTATE HIGHWAY 35 EAST, AT TRUNK HIGHWAY 77 MILEPOINT 4.60, 0.1 MILE SOUTH ON THE ON RAMP TO SOUTHBOUND TRUNK HIGHWAY 77 FROM COUNTY ROAD 30 (DIFFLEY ROAD), 24.5 FEET NORTHEAST OF ON A RAMP TO SOUTHBOUND TRUNK HIGHWAY 77, 160.8 FEET WEST OF A SOUTHBOUND TRUNK HIGHWAY 77 FOG LINE, 1.5 FEET SOUTHWEST OF A WITNESS POST.

Station Pair: PRIME - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	887.816	0.016	270.607	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.652 12B = -89.652 09 = -89.577 03 = -89.403

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 48 11.42338	93 13 20.81248	524457.089	220778.991	159854.840	67293.571	243.284			2018	GPS3290	
NAD83 (1996)	44 48 11.42326	93 13 20.81288	524457.060	220778.978	159854.832	67293.567	243.357	C		2018	HTH77	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SYNAP-DQ8792-3E-13JUL2023.jpg	E	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SYNAP-DQ8792-2-30OCT2017.jpg		Oct 30, 2017
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/SYNAP-DQ8792-1-30OCT2017.jpg		Oct 30, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108718.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108718.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: T 26

NGS Name: T 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0807](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	112 N	18 W	443135.59	930059.27	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2015	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** T 26 1933

IN RANDOLPH, 109.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A RAILROAD STATION, 117.0 FEET EAST OF THE EAST RAIL OF A RAILROAD, IN THE WEST CORNER OF THE SOUTHWEST FOOTING OF A DISMANTLED WATER TANK, 10.0 FEET EAST OF A POWER POLE, 51.0 FEET WEST OF THE SOUTHWEST CORNER OF A BUILDING, IN THE YARD OF AN IMPLEMENT DEALER (WALCO USA).

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	883.492	0.016	269.289	0.005	2/1	2016	00000879
NGVD29	883.394	0.016	269.259	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.810 12B = -94.810 09 = -94.757 03 = -94.632

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/T_26-PP0807-3S-29AUG2011.jpg	S	Aug 29, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/T_26-PP0807-2-29AUG2011.jpg		Aug 29, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/T_26-PP0807-1-29AUG2011.jpg		Aug 29, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7561.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7561.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TABITHA

NGS Name: TABITHA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4933](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	14	28 N	23 W	445425.29	930746.44	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 1 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** TABITHA 2011

IN LILYDALE, 0.5 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35E IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY 13 MILEPOINT 110.35, 143.4 FEET NORTHEAST OF THE EDGE OF A PARKING LOT, 53.7 FEET NORTHWEST OF TRUNK HIGHWAY 13, 1.5 FEET SOUTHWEST OF A WITNESS POST. THE MONUMENT IS 1.0 FOOT SECTION OF ALUMINUM ROD SET IN BEDROCK WITH CEMENT.

Station Pair: BRONCO - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	802.095	0.016	244.479	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -89.846 12B = -89.842 09 = -89.770 03 = -89.603

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 54 25.29340	93 07 46.44086	548479.894	258686.376	167177.006	78847.765	217.096			2021	GPS3438	
NAD83 (1996)	44 54 25.29301	93 07 46.44119	548479.871	258686.336	167176.999	78847.753	217.168	C		2021	HDODD2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TABITHA-DO4933-3NW-08AUG2023.jpg	NW	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TABITHA-DO4933-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TABITHA-DO4933-1-01OCT2020.jpg		Oct 1, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95081.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95081.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TACOBEL MN037

NGS Name: TACOBEL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	14	115 N	21 W	444624.74	931818.24		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	HORIZONTAL CONTROL DISK	MN-037

Description: (2011) **Stamping:** TACOBEL 1988

IN BURNSVILLE, IN THE NORTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 13 AND COUNTY ROAD 5, 0.8 MILE WEST OF THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13, 225.0 FEET NORTH OF WESTBOUND TRUNK HIGHWAY 13, 8.5 FEET WEST OF A NO PARKING SIGN, 10.6 FEET WEST FROM THE BACK OF A CURB OF SOUTHBOUND COUNTY ROAD 5, 38.0 FEET NORTHEAST OF A 16.0 INCH DIAMETER BOX ELDER TREE, 25.0 FEET SOUTHEAST OF 12.0 INCH DIAMETER BOX ELDER TREE.

Station Notes
THE ROD DEPTH IS UNKNOWN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.199 12B = -89.199 09 = -89.127 03 = -88.940

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (1986)	44 46 24.73675	93 18 18.23825	503012.767	209959.905	153318.598	63995.907		C	1989	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TACOBEL-3SW-02OCT2011.jpg	SW	Oct 2, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TACOBEL-2-02OCT2011.jpg		Oct 2, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TACOBEL-1-02OCT2011.jpg		Oct 2, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7562.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7562.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 05 A L22891

NGS Name: TBM 05 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4794](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	35	113 N	18 W	443302.00	925642.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2011)

Stamping:

4.3 MILES SOUTH OF HAMPTON, THEN 4.3 MILES SOUTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50, THEN 322.0 FEET EAST ON ROCHESTER BOULEVARD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.669 12B = -95.663 09 = -95.603 03 = -95.472

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57386.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57386.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 05 B L22891

NGS Name: TBM 05 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4795](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	22	113 N	18 W	443432.00	925758.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

3.9 MILES SOUTH OF HAMPTON, THEN 3.9 MILES SOUTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50, THEN 0.9 MILE ON GOODWIN AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.243 12B = -95.229 09 = -95.180 03 = -95.039

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57389.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57389.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 05 C L22891

NGS Name: TBM 05 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4796](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	16	113 N	18 W	443514.00	925852.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.2 MILES SOUTHEAST OF HAMPTON, THEN 1.1 MILES SOUTH ON EMERY AVENUE EAST FROM THE JUNCTION OF EMERY AVENUE EAST AND 240TH STREET EAST, THEN 0.1 MILE EAST ON 250TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.947 12B = -94.937 09 = -94.888 03 = -94.741

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57391.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57391.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 1 L22891

NGS Name: TBM 06 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4797](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	113 N	18 W	443723.00	925941.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

0.9 MILE NORTH OF HAMPTON, THEN 0.9 MILE NORTH ON EMERY AVENUE EAST FROM THE JUNCTION OF EMERY AVENUE EAST AND LINCOLN STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.465 12B = -94.455 09 = -94.399 03 = -94.239

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57396.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57396.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 2 L22891

NGS Name: TBM 06 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4798](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	32	114 N	18 W	443824.00	925946.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

2.2 MILES NORTH OF HAMPTON, THEN 1.9 MILES NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND NORTHFIELD BOULEVARD, THEN 0.1 MILE SOUTH ON EMERY AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.278 12B = -94.265 09 = -94.209 03 = -94.048

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57420.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57420.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 3 L22891

NGS Name: TBM 06 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4799](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	29	114 N	18 W	443907.00	930008.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.6 MILES SOUTH OF VERMILLION, THEN 1.6 MILES SOUTH ON COATES BOULEVARD FROM THE JUNCTION OF COATES BOULEVARD AND 190TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.052 12B = -94.045 09 = -93.986 03 = -93.819

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57433.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57433.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 5 L22891

NGS Name: TBM 06 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4801](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	7	114 N	18 W	444132.00	930120.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

2.0 MILES SOUTH OF COATES, THEN 1.7 MILES SOUTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 46, THEN 0.3 MILE NORTH ON COATES BOULEVARD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.202 12B = -93.212 09 = -93.146 03 = -92.946

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57446.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57446.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 6 L22891

NGS Name: TBM 06 6

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4802](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	6	114 N	18 W	444224.00	930148.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

0.3 MILE SOUTH OF COATES, THEN 0.3 MILE SOUTH ON COATES BOULEVARD FROM THE JUNCTION OF COATES BOULEVARD AND COUNTY ROAD 46.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.890 12B = -92.897 09 = -92.825 03 = -92.634

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57451.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57451.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 7 L22891

NGS Name: TBM 06 7

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4803](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	19 W	444311.00	930207.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.1 MILES NORTH OF COATES, THEN 0.8 MILE NORTH ON COATES BOULEVARD FROM THE JUNCTION OF COATES BOULEVARD AND COUNTY ROAD 46 (U-TURN), THEN 0.2 MILE SOUTH ON CLAYTON AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.634 12B = -92.638 09 = -92.572 03 = -92.385

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57456.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57456.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 06 8 L22891

NGS Name: TBM 06 8

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4804](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	31	115 N	18 W	444354.00	930205.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.0 MILE NORTH OF COATES, THEN 1.0 MILE NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 160TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.480 12B = -92.477 09 = -92.418 03 = -92.237

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57461.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57461.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 A L22353

NGS Name: TBM 1 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN2782](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	115 N	17 W	444432.00	925108.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

0.4 MILE NORTH OF HASTING, THEN 0.4 MILE NORTH ON VERMILLION STREET FROM THE JUNCTION OF VERMILLION STREET AND 10TH STREET EAST, THEN 59.0 FEET EAST ON 4TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.321 12B = -95.321 09 = -95.292 03 = -95.098

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59550.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59550.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 L22353

NGS Name: TBM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0623](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	22	115 N	17 W	444445.00	925051.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STRUCTURE (MASSIVE)	SEE DESCRIPTION	MNDT

Description:

Stamping:

IN HASTINGS, ON THE NORTH FACE OF THE SOUTH ABUTMENT OF THE CHICAGO-MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD BRIDGE OVER THE MISSISSIPPI RIVER, ON THE TOP OF THE SHANK OF AN EYE BOLT EMBEDDED VERTICALLY IN THE ABUTMENT ABOUT 4.0 FEET WEST OF THE WEST RAIL.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	713.066	0.016	217.343	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.354 12B = -95.357 09 = -95.328 03 = -95.131

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57857.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57857.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 L3485

NGS Name: TBM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BK7957](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NE	9	112 N	18 W	443133.00	925900.00			1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION
						<u>Disk Type</u>	<u>Mon. Agency</u>								
						IRON ROD	UNMONUMENTED								
							NGS								

Description:

Stamping:

1.3 MILES EAST OF RANDOLPH, THEN 1.3 MILES EAST ON 292ND STREET EAST/ COUNTY ROAD 88 FROM THE JUNCTION OF 292ND STREET EAST/ COUNTY ROAD 88 AND TRUNK HIGHWAY 56.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.252 12B = -95.252 09 = -95.193 03 = -95.072

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59608.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59608.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 VHBRG

NGS Name: TBM 1 VHBRG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ2820](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	17 W	444443.93	925105.40	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE/BITUMINOUS SLAB	BOLT	MNDT

Description: (2014)

Stamping:

0.45 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS TO TRUNK HIGHWAY 61 MILEPOINT 117.45, THEN 0.2 MILE EAST ON EAST 4TH STREET, THEN 0.2 MILE NORTH SIBLEY STREET, THEN 120.0 FEET NORTH-NORTHEAST DOWN STEPS IN FRONT OF VFW, 15.0 FEET SOUTH OF A BIKE PATH. THE TBM IS A SCREW SET IN THE NORTHWEST CORNER OF A CONCRETE SLAB FOR A PICNIC TABLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	688.299	0.016	209.794	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -95.285 12B = -95.289 09 = -95.259 03 = -95.062

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_1_VHBRG-DQ2820-3S-22SEP2022.jpg	S	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_1_VHBRG-DQ2820-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_1_VHBRG-DQ2820-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102104.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102104.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1 VMIES

NGS Name: TBM 1 VMIES

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1114](#) [Get Map](#)
 NGS Quad / Sta Num : 44092432/
 USGS Quad: MIESVILLE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	8	113 N	17 W	443604.37	925302.03	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SPIKE	MNDT

Description: (2015)

Stamping:

5.4 MILES EAST ALONG TRUNK HIGHWAY 50 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 50 IN HAMPTON, AT TRUNK HIGHWAY MILEPOINT 24.4, 0.2 MILE EAST FROM A DRIVEWAY NUMBER 10788, 29.0 FEET NORTH OF TRUNK HIGHWAY 50 CENTERLINE. STATION TBM 1 VMIES IS A RAILROAD SPIKE IN THE SOUTHWEST CORNER OF A POWER POLE, 1.0 FEET ABOVE THE SURFACE, WITH A LAND SURVEY NAIL AND DISK 3.3 FEET ABOVE IT MARKED PLS 9746.

Station Notes

NEW POWER POLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	975.008	0.016	297.183	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.217 12B = -96.207 09 = -96.145 03 = -960000

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_1_VMIES-DQ1114-3W-16JUN2015.jpg	W	Jun 16, 2015
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_1_VMIES-DQ1114-2-16JUN2015.jpg		Jun 16, 2015
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_1_VMIES-DQ1114-1-30SEP2022.jpg		Sep 30, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_104405.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_104405.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 10 L L22353

NGS Name: TBM 10 L

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0628](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	29	115 N	17 W	444419.11	925238.48	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
HYDRANT	SEE DESCRIPTION	MNDT

Description: (1970)

Stamping:

IN HASTINGS, ABOUT 1.3 MILES WEST OF TRUNK HIGHWAY 61, 116.0 FEET NORTH OF TRUNK HIGHWAY 55 STATION 760 + 00, ON THE TOP OF A BOLT ON A FIRE HYDRANT NEAR BUILDING NUMBER 1266 TRUNK HIGHWAY 55.

Station Notes

NO DATASHEET DATA IN NGSIDB

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	846.527	0.016	258.022	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -94.882 12B = -94.895 09 = -94.878 03 = -94.665

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_10_L-PP0628-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_10_L-PP0628-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_10_L-PP0628-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57873.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57873.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 10 M L22353

NGS Name: TBM 10 M

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0626](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	115 N	17 W	444418.26	925141.90	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2022	GOOD	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
HYDRANT	SEE DESCRIPTION	MNDT

Description: (1970)

Stamping:

IN HASTINGS, ON THE SOUTHEAST BOLT ON THE TOP RING OF A FIRE HYDRANT IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF TRUNK HIGHWAY 55 AND OAK STREET EXTENDED, ABOUT 300.0 FEET EAST OF TRUNK HIGHWAY 55 AND PINE STREET, IN THE FRONT YARD OF HOUSE NUMBER 730 ON TRUNK HIGHWAY 55.

Station Notes

NO DATA ON DATA SHEET IN NGSIDB.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	774.247	0.016	235.991	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.193 12B = -95.197 09 = -95.174 03 = -94.977

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_10_M-PP0626-3N-22SEP2022.jpg	N	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_10_M-PP0626-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_10_M-PP0626-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57874.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57874.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 117 C 1 L22332

NGS Name: TBM 117 C 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN2614](#) [Get Map](#)
 NGS Quad / Sta Num : 44093132/
 USGS Quad: NEW MARKET

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	17	113 N	20 W	443544.00	931502.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

2.0 MILES NORTHWEST OF EUREKA TOWNSHIP, THEN 1.0 MILE NORTH ON HIGHVIEW AVENUE FROM THE JUNCTION OF HIGHVIEW AVENUE AND COUNTY ROAD 80, THEN 0.2 MILE WEST ON 240TH STREET WEST, 0.5 MILE SOUTHWEST ON HOLYOKE PATH, 0.2 MILE SOUTH ON LBERIA AVENUE, THEN 276.0 FEET WEST ON ICELAND PATH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.381 12B = -91.384 09 = -91.342 03 = -91.142

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59172.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59172.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 117 C L22332

NGS Name: TBM 117 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN2613](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	113 N	20 W	443602.00	931418.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

0.9 MILE NORTHWEST OF EUREKA TOWNSHIP, THEN 0.9 MILE NORTH ALONG HIGHVIEW AVENUE FROM THE JUNCTION OF HIGHVIEW AVENUE AND COUNTY ROAD 80.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.493 12B = -91.496 09 = -91.450 03 = -91.250

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59174.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59174.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 13 1 L24283

NGS Name: TBM 13 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8905](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	33	28 N	23 W	445212.00	931028.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.1 MILES SOUTH OF MENDOTA, THEN 1.1 MILES SOUTH ON SIBLEY MEMORIAL HIGHWAY FROM THE JUNCTION OF SIBLEY MEMORIAL HIGHWAY AND TRUNK HIGHWAY 13.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.685 12B = -89.682 09 = -89.590 03 = -89.445

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60220.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60220.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 131 L22891

NGS Name: TBM 131

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4793](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	112 N	18 W	443133.00	925654.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

0.7 MILE NORTHWEST OF RANDOLPH TOWNSHIP, THEN 0.2 MILE NORTH ON HARRY AVENUE FROM THE JUNCTION OF HARRY AVENUE AND COUNTY ROAD 88, THEN 0.5 MILE WEST ON 292ND STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.708 12B = -95.705 09 = -95.649 03 = -95.521

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_59715.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_59715.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1982 1 L22832

NGS Name: TBM 1982 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM5971](#) [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	115 N	20 W	444459.00	931614.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.2 MILES SOUTH OF BURNSVILLE, THEN 0.6 MILE SOUTH ON NICOLLET AVENUE FROM THE JUNCTION OF NICOLLET AVENUE AND EAST 134TH STREET, 0.1 MILE EAST ON EAST 138TH STREET, 0.3 MILE SOUTH ON FAIRVIEW DRIVE, THEN 0.2 MILE EAST ON EAST NICOLLET BOULEVARD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.613 12B = -89.606 09 = -89.560 03 = -89.367

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57987.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57987.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1982 2 L22832

NGS Name: TBM 1982 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM5972](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	27 N	23 W	444637.00	931318.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

3.2 MILES EAST OF BURNSVILLE, THEN 2.7 MILES EAST ON EAST BURNSVILLE PARKWAY FROM THE JUNCTION OF BURNSVILLE PARKWAY AND NICOLLET AVENUE, 0.2 MILE EAST ON SLATER ROAD, 0.1 MILE EAST ON MARILYN AVENUE, THEN 0.1 MILE SOUTH ON RUSTEN ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.832 12B = -89.836 09 = -89.773 03 = -89.577

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57988.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57988.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1982 3 L22832

NGS Name: TBM 1982 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM5973](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	31	27 N	23 W	444715.00	931254.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.9 MILES SOUTH OF EAGAN, THEN 1.1 MILES SOUTH ON TRUNK HIGHWAY 35 EAST FROM THE JUNCTION OF TRUNK HIGHWAY 35 EAST AND DIFFLEY ROAD, 0.2 MILE WEST ON CLIFF ROAD, 62.0 FEET SOUTH ON CLIFF LAKE ROAD, THEN 0.4 MILE SOUTH ON RAHNCLIFF ROAD, THEN 381.0 FEET EAST ON PIN OAK DRIVE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.813 12B = -89.816 09 = -89.750 03 = -89.557

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57989.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57989.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1982 4 L22832

NGS Name: TBM 1982 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM5974](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	25	27 N	24 W	444733.00	931406.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

2.8 MILES EAST OF EAGAN, THEN 1.1 MILES SOUTH ON TRUNK HIGHWAY 35 EAST FROM THE JUNCTION OF TRUNK HIGHWAY 35 EAST AND DIFFLEY ROAD, 1.6 MILES EAST ON CLIFF ROAD / COUNTY ROAD 32, 0.1 MILE NORTH ON RIVER HILLS DRIVE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.609 12B = -89.609 09 = -89.544 03 = -89.360

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57990.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57990.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1982 5 L22832

NGS Name: TBM 1982 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM5976](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	21	27 N	23 W	444857.00	931059.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.4 MILES NORTHEAST OF EAGAN, THEN 0.9 MILE EAST ON DEERWOOD DRIVE, 0.2 NORTH ON MURPHY PARKWAY, (NEAR THE BLACKHAWK PARK).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.898 12B = -89.898 09 = -89.819 03 = -89.649

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57991.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57991.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 1982 6 L22832

NGS Name: TBM 1982 6

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM5975](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	27 N	23 W	444846.00	931108.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.0 MILE NORTHWEST OF EAGAN, THEN 0.9 MILE WEST ON DEERWOOD DRIVE, THEN 197.0 FEET NORTH ON MURPHY PARKWAY, THEN 197.0 FEET ON DONEGAL WAY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.898 12B = -89.898 09 = -89.819 03 = -89.645

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57992.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57992.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 L22184

NGS Name: TBM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0957](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	17 W	444443.00	925042.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.0 MILE NORTH OF HASTINGS, THEN 0.5 MILE NORTH ON VERMILLION STREET FROM THE JUNCTION OF VERMILLION STREET AND 10TH STREET EAST, 0.4 MILE EAST ON 3RD STREET EAST, 0.1 MILE NORTH ON BASS STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.410 12B = -95.413 09 = -95.380 03 = -95.187

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58098.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58098.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 L22196 5

NGS Name: TBM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1346](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	16	28 N	22 W	445504.00	930326.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BOLT	MNDT

Description: (1967)

Stamping:

IN ST. PAUL, 0.1 MILE SOUTHEAST OF BIRCHER STREET, 0.8 MILE SOUTHEAST OF TBM A L22196-5, 8.5 FEET SOUTHWEST OF THE SOUTHWEST RAIL, THE STATION IS THE TOP OF THE NORTHWEST BOLT IN RAILROAD SIGNAL BASE 527-02.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.357 12B = -90.357 09 = -90.289 03 = -90.111

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58102.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58102.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 L22353

NGS Name: TBM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0622](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	115 N	17 W	444439.31	925050.42	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	CHISELED SQUARE	MNDT

Description: (2010)

Stamping:

IN HASTINGS, IN THE TOP OF A LARGE CONCRETE RAILROAD SIGNAL BASE IN THE SOUTHWEST QUADRANT OF 2ND STREET AND THE CHICAGO-MILWAUKEE-ST. PAUL AND PACIFIC RAILROAD, 50.0 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE HASTINGS RAILROAD DEPOT. NW 1/4, SEC 27, T.

Station Notes

ALL SIGNALS HAVE BEEN REPLACED.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	707. 679	0. 016	215. 701	0. 005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.384 12B = -95.384 09 = -95.351 03 = -95.157

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57655.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57655.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 L3485

NGS Name: TBM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BK7958](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	10	112 N	18 W	443133.00	925824.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

0.8 MILE WEST OF RANDOLPH TOWNSHIP, THEN 0.7 MILE WEST ON 295TH STREET EAST FROM THE JUNCTION OF 295TH STREET EAST AND GAYLORD AVENUE, 0.1 MILE NORTH ON FINCH COURT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.384 12B = -95.384 09 = -95.325 03 = -95.200

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58133.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58133.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 VHBRG

NGS Name: TBM 2 VHBRG

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ2821](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	27	115 N	17 W	444447.55	925125.50	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	NO		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE/BITUMINOUS SLAB	BOLT	MNDT

Description: (2014)

Stamping:

0.45 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS TO TRUNK HIGHWAY 61 MILEPOINT 117.45, THEN 0.2 MILE WEST ON WEST 4TH STREET, THEN 0.35 MILE NORTH ON SPRING STREET/LOCK AND DAM ROAD, 90.0 FEET NORTHEAST OF THE NORTHWEST CORNER OF A SMALL PARKING AREA ALONG STREET. THE TBM IS A SCREW SET IN THE NORTHEAST CORNER OF A CONCRETE SLAB FOR A PICNIC TABLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	689.769	0.016	210.242	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -95.161 12B = -95.170 09 = -95.144 03 = -94.941

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_2_VHBRG-DQ2821-3NW-22SEP2022.jpg	NW	Sep 22, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_2_VHBRG-DQ2821-2-22SEP2022.jpg		Sep 22, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_2_VHBRG-DQ2821-1-22SEP2022.jpg		Sep 22, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102110.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102110.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 2 VRCTH55

NGS Name: TBM 2 VRCTH55

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ9269](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	28 N	23 W	445256.00	931011.70	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2023	DESTROYED	Horz=NO Vert=NO	NO		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
METAL ROD DRIVEN IN GROUND (<10 FT) (DEPTH 9 FT)	METAL ROD	MNDT

Description: (2016)

Stamping:

IN MENDOTA HEIGHTS, AT TRUNK HIGHWAY MILEPOINT 199.1, 236.0 FEET SOUTH-SOUTHWEST OF STATION BR 19088 SE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	829.749	0.016	252.908	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -89.662 12B = -89.662 09 = -89.577 03 = -89.429

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_105106.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_105106.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 3 L22184

NGS Name: TBM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0959](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	27	115 N	17 W	444420.00	925028.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

0.5 MILE EAST OF HASTINGS, 0.1 MILE NORTH ON VERMILLION STREET FROM THE JUNCTION OF VERMILLION STREET AND 10TH STREET EAST, THEN 0.4 MILE EAST ON 8TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.577 12B = -95.571 09 = -95.535 03 = -95.344

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58861.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58861.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 3 L22196 5

NGS Name: TBM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1345](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	22	28 N	22 W	445413.00	930237.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2023	NOT FOUND	Horz=NO Vert=YES	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BOLT	MNDT

Description: (1967)

Stamping:

IN ST. PAUL, 0.2 MILE SOUTHEAST OF BRYANT AVENUE, 1.0 MILE SOUTHEAST OF TBM 2 L22196-5, 4.0 FEET SOUTHWEST OF A RAIL, THE TOP OF THE NORTHEAST BOLT ON RAILROAD SIGNAL BASE 525-75. THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON RAILROAD PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.561 12B = -90.567 09 = -90.492 03 = -90.318

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58865.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58865.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 3 L22353

NGS Name: TBM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0624](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	27	115 N	17 W	444410.30	925045.21	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2011	GOOD	Horz=NO Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
HYDRANT	SEE DESCRIPTION	MNDT

Description: (1970)

Stamping:

IN HASTINGS. 0.3 MILE EAST OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 291 IN HASTINGS, 30.0 FEET SOUTH OF TRUNK HIGHWAY 291 (10TH STREET), 25.0 FEET EAST OF THE SMEED COMPANY SERVICE DRIVE, ON THE NORTHWEST BOLT OF THE TOP RING ON A FIRE HYDRANT. SW 1/4, SEC 27, T 115N, R.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	742.177	0.016	226.216	0.005	2/0	1991	00000025

Geoid Separations(ft): GEOID18 = -95.525 12B = -95.518 09 = -95.485 03 = -95.295

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_3-PP0624-3S-27SEP2022.jpg	S	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_3-PP0624-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_3-PP0624-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_57710.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_57710.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 3 L3485

NGS Name: TBM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BK7959](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	11	112 N	18 W	443131.00	925622.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.6 MILES EAST OF RANDOLPH TOWNSHIP, 1.3 MILES ON COUNTY ROAD 88, 0.2 MILE NORTH ON HARRY AVENUE, THEN 66.0 FEET WEST ON 292ND STREET EAST.

Station Notes

8/30/2011 UNABLE TO FIND WITH GIVEN TIE INFORMATION, THIS MARK IS INCLUDED WITH MARK TO MARK DATA, NO NGS DATASHEET, NO PROJECT INFORMATION, NO POSITION.
 DO NOT LOOK FOR! DON'T WASTE TIME OR MONEY ON THIS, NO VALUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.827 12B = -95.823 09 = -95.764 03 = -95.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58894.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58894.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 30 L868

NGS Name: TBM 30

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6022](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	30	112 N	19 W	442823.00	930846.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.4 MILES NORTH OF NORTHFIELD, THEN 1.4 MILES NORTH ALONG TRUNK HIGHWAY 3/ 1ST STREET FROM THE JUNCTION OF TRUNK HIGHWAY 3/ 1ST STREET AND 2ND STREET WEST.

Station Notes

8/30/2011 UNABLE TO FIND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.294 12B = -93.333 09 = -93.271 03 = -93.120

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_58619.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_58619.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 31 L868

NGS Name: TBM 31

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6023](#) [Get Map](#)
 NGS Quad / Sta Num : 44093214/
 USGS Quad: NORTHFIELD

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	29	112 N	19 W	442857.00	930759.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

3.3 MILES NORTH OF NORTHFIELD, THEN 1.9 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND 2ND STREET WEST, 0.9 MILE EAST ALONG COUNTY ROAD 47, 0.5 MILE SOUTH ALONG CANADA AVENUE WEST.

Station Notes

8/30/2011 UNABLE TO FIND.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.428 12B = -93.464 09 = -93.405 03 = -93.258

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61964.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61964.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 32 L868

NGS Name: TBM 32

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6024](#) [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	21	112 N	19 W	442947.00	930629.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

4.4 MILES SOUTH OF RANDOLPH, THEN 3.6 MILES SOUTH ON COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND COUNTY ROAD 88, 0.8 MILE NORTHEAST ON CANNON RIVER BOULEVARD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.704 12B = -93.730 09 = -93.678 03 = -93.533

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62141.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62141.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 33 L868

NGS Name: TBM 33

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6025](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	15	112 N	19 W	443010.00	930522.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

5.1 MILES NORTH OF NORTHFIELD, 1.9 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND 2ND STREET WEST IN NORTHFIELD, THEN 1.4 MILES NORTHEAST ALONG COUNTY ROAD 47, THEN 1.8 MILES EAST ALONG THE CANNON RIVER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.920 12B = -93.943 09 = -93.894 03 = -93.753

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62301.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62301.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 4 L3485

NGS Name: TBM 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BK7960](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	12	112 N	18 W	443129.00	925540.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1934	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

2.0 MILES NORTHWEST OF CANNON FALLS, 1.4 MILES NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND TRUNK HIGHWAY 19, THEN 433.0 FEET SOUTH ON TRUNK HIGHWAY 52.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.977 12B = -95.974 09 = -95.912 03 = -95.784

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60951.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60951.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 4 UE 27 B USGS L22184

NGS Name: TBM 4 UE 27 B USGS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0960](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	35	115 N	17 W	444347.00	924923.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.6 MILES EAST OF HASTINGS, 1.6 MILES EAST ON 10TH STREET EAST TOWARD SIBLEY STREET FROM THE JUNCTION OF 10TH STREET/ SIBLEY STREET AND TRUNK HIGHWAY 61.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.010 12B = -96.007 09 = -95.955 03 = -95.774

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61123.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61123.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 4 X A L22196-7

NGS Name: TBM 4 X A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO4784](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	23 W	445301.00	930442.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

IN MENDOTA HEIGHTS, 0.3 MILE SOUTH ON TRUNK HIGHWAY 35E FROM THE JUNCTION OF TRUNK HIGHWAY 35E AND TRUNK HIGHWAY 110, 1.4 MILES NORTH ON INTERSTATE HIGHWAY 35 EAST NORTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.865 12B = -89.869 09 = -89.800 03 = -89.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61124.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61124.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 43 L868

NGS Name: TBM 43

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6026](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	14	112 N	19 W	443037.00	930356.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

2.2 MILES SOUTHWEST OF RANDOLPH, 2.2 MILES SOUTHWEST ALONG CANNON RIVER BOULEVARD FROM THE JUNCTION OF CANNON RIVER BOULEVARD AND COUNTY ROAD 88.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.212 12B = -94.226 09 = -94.173 03 = -94.042

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61401.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61401.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 44 L868

NGS Name: TBM 44

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6027](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	112 N	19 W	443054.00	930258.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.4 MILES SOUTHWEST OF RANDOLPH, 1.4 MILES SOUTHWEST ALONG CANNON RIVER BOULEVARD FROM THE JUNCTION OF CANNON RIVER BOULEVARD AND COUNTY ROAD 88.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.409 12B = -94.419 09 = -94.367 03 = -94.239

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61528.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61528.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 45 L868

NGS Name: TBM 45

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6028](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	7	112 N	18 W	443111.00	930200.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

0.5 MILE SOUTHWEST OF RANDOLPH, 0.5 MILE SOUTHWEST ALONG CANNON RIVER BOULEVARD FROM THE JUNCTION OF CANNON RIVER BOULEVARD AND COUNTY ROAD 88.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.609 12B = -94.616 09 = -94.560 03 = -94.436

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61546.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61546.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 46 L868

NGS Name: TBM 46

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6029](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	5	112 N	18 W	443212.00	930045.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

0.7 MILE NORTH OF RANDOLPH, 0.7 MILE NORTH ON DELILAH AVENUE FROM THE JUNCTION OF DELILAH AVENUE AND 292ND STREET EAST IN RANDOLPH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.819 12B = -94.819 09 = -94.767 03 = -94.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61689.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61689.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 47 L868

NGS Name: TBM 47

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6030](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	113 N	18 W	443254.00	930030.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.8 MILES NORTHEAST OF RANDOLPH, 1.2 MILES NORTH ALONG DELILAH AVENUE FROM THE JUNCTION OF DELILAH AVENUE AND 292ND STREET EAST, THEN 0.6 MILE EAST ALONG COUNTY ROAD 86.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.819 12B = -94.816 09 = -94.764 03 = -94.629

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61703.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61703.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 48 L868

NGS Name: TBM 48

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6031](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	29	113 N	18 W	443411.00	930009.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

2.4 MILES SOUTH OF HAMPTON, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 80, THEN 0.4 MILE WEST ALONG 260TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.773 12B = -94.767 09 = -94.711 03 = -94.570

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61838.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61838.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 49 1 L22410

NGS Name: TBM 49 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9727](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	2	27 N	23 W	445123.00	930746.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.9 MILES SOUTH OF MENDOTA HEIGHTS, 1.9 MILES SOUTH ON DODD ROAD FROM THE JUNCTION OF DODD ROAD AND TRUNK HIGHWAY 110.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.079 12B = -90.088 09 = -90.010 03 = -89.839

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61840.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61840.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 49 2 L22410

NGS Name: TBM 49 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9728](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	35	28 N	23 W	445150.00	930741.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

1.4 MILES SOUTH OF MENDOTA HEIGHTS, 1.4 MILES SOUTH ON DODD ROAD FROM THE JUNCTION OF DODD ROAD AND TRUNK HIGHWAY 110, 482.0 FEET EAST ON (INTERSTATE HIGHWAY 494 WEST RAMP).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.046 12B = -90.052 09 = -89.977 03 = -89.806

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61841.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61841.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 49 3 L22410

NGS Name: TBM 49 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9729](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	35	28 N	23 W	445210.00	930738.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.0 MILE SOUTH OF MENDOTA HEIGHTS, 0.7 MILE SOUTH ON DODD ROAD FROM THE JUNCTION OF DODD ROAD AND TRUNK HIGHWAY 110, 0.3 MILE SOUTHEAST ON PAGEL ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.020 12B = -90.026 09 = -89.954 03 = -89.783

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61842.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61842.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 49 4 L22410

NGS Name: TBM 49 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9730](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	35	28 N	23 W	445232.00	930747.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.0 MILES SOUTH OF MENDOTA HEIGHTS, 0.7 MILE SOUTH ON DODD ROAD FROM THE JUNCTION OF DODD ROAD AND TRUNK HIGHWAY 110, 0.2 MILE WEST ON WAGON WHEEL TRAIL, 0.1 MILE NORTH ON ROGERS COURT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.967 12B = -89.970 09 = -89.905 03 = -89.734

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61843.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61843.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 49 L868

NGS Name: TBM 49

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6032](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	20	113 N	18 W	443457.00	930005.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.6 MILES SOUTH OF HAMPTON, 1.0 MILE SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND COUNTY ROAD 80, 0.3 MILE WEST ALONG 250TH STREET EAST, 0.3 MILE SOUTH ALONG LEWISTON BOULEVARD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.695 12B = -94.688 09 = -94.636 03 = -94.488

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61856.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61856.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 5 STEP

NGS Name: TBM 5 STEP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ9274](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	22 W	445254.18	930103.87	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEP	CHISELED CROSS	MNDT

Description: (2016)

Stamping:

IN SOUTH ST. PAUL, 0.2 MILE NORTH ALONG HARDMAN AVENUE SOUTH FROM THE JUNCTION OF HARDMAN AVENUE SOUTH AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, THEN 0.5 MILE EASTERLY ON VERDEROSA AVENUE TO THE BOAT LAUNCH AREA BEYOND THE PARKING LOT, IN MIDDLE LANDING OF STAIRS IN LEVEE SLOPE TO THE SOUTHWEST, ON THE SOUTHEAST EDGE OF THE LANDING STEP, 0.5 FEET SOUTH OF A RAILING POST AT THE JOINT IN THE LANDING, STATION TBM 5 STEP IS A CHISELED CROSS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	702.574	0.016	214.145	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -910000 12B = -91.010 09 = -90.925 03 = -90.754

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_5_STEP-DQ9274-3SW-09AUG2023.jpg	SW	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_5_STEP-DQ9274-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TBM_5_STEP-DQ9274-1-23JAN2017.jpg		Jan 23, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106716.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106716.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 5 UE 26 B USGS L22184

NGS Name: TBM 5 UE 26 B USGS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0961](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	6	114 N	16 W	444254.00	924648.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

4.0 MILES EAST OF HASTINGS, 4.0 MILES EAST ON RAVENNA TRAIL FROM THE JUNCTION OF RAVENNA TRAIL AND VERMILLION STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -96.817 12B = -96.831 09 = -96.778 03 = -96.591

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62187.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62187.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 50 L868

NGS Name: TBM 50

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6033](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	17	113 N	18 W	443551.00	930000.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

0.7 MILE SOUTH OF HAMPTON, 0.7 MILE ON HAMPTON BOULEVARD FROM THE JUNCTION OF HAMPTON BOULEVARD AND COUNTY ROAD 47, 367.0 FEET WEST ON COUNTY ROAD 80.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.603 12B = -94.603 09 = -94.540 03 = -94.383

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62318.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62318.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 51 L868

NGS Name: TBM 51

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6034](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	5	113 N	18 W	443714.00	930006.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.5 MILES NORTH OF HAMPTON, 1.1 MILES NORTH ALONG EMERY AVENUE FROM THE JUNCTION OF EMERY AVENUE AND LINCOLN STREET, (U-TURN) 0.4 MILE SOUTH ALONG TRUNK HIGHWAY 52.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.386 12B = -94.380 09 = -94.324 03 = -94.163

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62334.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62334.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 52 L868

NGS Name: TBM 52

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6035](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	32	114 N	18 W	443750.00	930016.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

2.3 MILES NORTH OF HAMPTON, 1.4 MILES NORTH ON HAMPTON BOULEVARD FROM THE JUNCTION OF HAMPTON BOULEVARD AND NORTHFIELD BOULEVARD, 0.2 MILE EAST ON 222ND STREET EAST, 0.7 MILE NORTH ON 220TH STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.255 12B = -94.245 09 = -94.189 03 = -94.025

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62467.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62467.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 53 L868

NGS Name: TBM 53

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6036](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	32	114 N	18 W	443819.00	930024.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

2.3 MILES NORTH OF HAMPTON, 1.6 MILES NORTH ON HAMPTON BOULEVARD FROM THE JUNCTION OF HAMPTON BOULEVARD AND NORTHFIELD BOULEVARD, THEN 472.0 FEET ON CANADA AVENUE WEST, THEN 0.5 MILE NORTH ON DARSOW AVENUE, 0.9 MILE ON 215TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.144 12B = -94.134 09 = -94.078 03 = -93.914

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62493.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62493.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 54 L868

NGS Name: TBM 54

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6037](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	114 N	18 W	443847.00	930032.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

3.3 MILES NORTH OF HAMPTON, 1.6 MILES NORTH ON HAMPTON BOULEVARD FORM THE JUNCTION OF HAMPTON BOULEVARD AND NORTHFIELD BOULEVARD, THEN 472.0 FEET ON CANADA AVENUE WEST, 1.0 MILE ON DARSOW AVENUE, 0.6 MILE EAST ON DUBARRY TRAIL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.025 12B = -94.016 09 = -93.960 03 = -93.792

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60238.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60238.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 55 L868

NGS Name: TBM 55

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6038](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	114 N	18 W	444030.00	930121.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2011)

Stamping:

3.3 MILES WEST OF VERMILLION, 3.3 MILES WEST ON COUNTY ROAD 62 FROM THE JUNCTION OF COUNTY ROAD 62 AND COUNTY ROAD 85.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.458 12B = -93.464 09 = -93.395 03 = -93.205

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60256.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60256.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 56 A L22353

NGS Name: TBM 56 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN2783](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	34	28 N	22 W	445233.00	930141.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.7 MILES SOUTH OF SOUTH ST. PAUL, 1.4 MILES SOUTH ALONG CONCORD STREET NORTH FROM THE JUNCTION OF CONCORD STREET NORTH AND GRAND AVENUE, 0.1 MILE EAST ALONG RICHMOND STREET EAST, THEN 72.0 FEET ALONG MALDEN STREET, 302.0 FEET NORTH ALONG CLINTON STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.932 12B = -90.941 09 = -90.863 03 = -90.686

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60260.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60260.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 56 L22196-5

NGS Name: TBM 56

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO5560](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	28 N	22 W	445246.00	930219.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

1.1 MILES SOUTH OF SOUTH ST. PAUL, 0.7 MILE SOUTH ALONG CAMBER AVENUE FROM THE JUNCTION OF CAMBER AVENUE AND GRAND AVENUE EAST, THEN 0.1 MILE WEST ALONG 1ST AVENUE SOUTH, 0.2 MILE EAST ALONG 7TH STREET SOUTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.781 12B = -90.791 09 = -90.718 03 = -90.535

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60263.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60263.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 56 L868

NGS Name: TBM 56

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6039](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	18	114 N	18 W	444103.00	930131.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

2.3 MILES SOUTH OF COATES, 1.7 MILES SOUTH ON COATES BOULEVARD FROM THE JUNCTION OF COATES BOULEVARD AND COUNTY ROAD 46, THEN 0.2 MILE WEST ON 180TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.284 12B = -93.294 09 = -93.228 03 = -93.028

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60392.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60392.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 57 L868

NGS Name: TBM 57

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6040](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	7	114 N	18 W	444135.00	930142.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.7 MILES SOUTH OF COATES, 1.2 MILES SOUTH ON COATES BOULEVARD FROM THE JUNCTION OF COATES BOULEVARD AND COUNTY ROAD 46.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.110 12B = -93.120 09 = -93.051 03 = -92.854

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60408.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60408.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 58 L868

NGS Name: TBM 58

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6041](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	7	114 N	18 W	444207.00	930153.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

0.8 MILE SOUTH OF COATES, 0.6 MILE SOUTH ON COATES BOULEVARD FROM THE JUNCTION OF COATES BOULEVARD AND COUNTY ROAD 46, THEN 0.2 MILE WEST ON 170TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.943 12B = -92.949 09 = -92.877 03 = -92.687

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60576.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60576.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 59 L868

NGS Name: TBM 59

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6042](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	6	114 N	18 W	444241.00	930204.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

0.8 MILE SOUTH OF COATES, 0.4 MILE SOUTH ON COATES BOULEVARD FROM THE JUNCTION OF COATES BOULEVARD AND 160TH STREET EAST, THEN 0.3 MILE (TAKE EXIT COUNTY ROAD 46), THEN 305.0 FEET NORTH ON CLAYTON AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.766 12B = -92.769 09 = -92.700 03 = -92.510

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60708.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60708.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 6 L22184

NGS Name: TBM 6

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0962](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	8	114 N	16 W	444141.00	924528.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

Stamping:

5.7 MILES SOUTHEAST OF HASTINGS, 5.8 MILES EAST ON 10TH STREET EAST/COUNTY ROAD 54 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND 10TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.273 12B = -97.283 09 = -97.218 03 = -97.050

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60721.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60721.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 60 L868

NGS Name: TBM 60

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6043](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	36	115 N	19 W	444322.00	930216.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

0.6 MILE NORTH OF COATES, 0.4 MILE NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 160TH STREET EAST, 520.0 FEET NORTHWEST ON CLAYTON AVENUE EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.562 12B = -92.562 09 = -92.500 03 = -92.313

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61001.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61001.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 61 L868

NGS Name: TBM 61

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6044](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	25	115 N	19 W	444356.00	930225.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.1 MILES NORTH OF COATES, 1.3 MILES NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 160TH STREET EAST, 0.2 MILE NORTHEAST (TAKE EXIT DAKOTA COUNTY 42), THEN 0.1 MILE WEST ON 145TH STREET, 0.5 MILE SOUTH ON TRUNK HIGHWAY 56.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.405 12B = -92.398 09 = -92.342 03 = -92.155

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61149.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61149.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 62 L868

NGS Name: TBM 62

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6045](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	24	115 N	19 W	444536.00	930239.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.9 MILES NORTH OF COATES, 3.9 MILES NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 160TH STREET EAST, THEN 0.3 MILE (TAKE EXIT 117TH STREET), THEN 0.2 MILE WEST ON 117TH STREET EAST, THEN 1.4 MILES SOUTH ON TRUNK HIGHWAY 52 SOUTH, THEN 295.0 FEET WEST ON CLARK ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.998 12B = -91.985 09 = -91.936 03 = -91.762

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61164.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61164.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 63 L868

NGS Name: TBM 63

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6046](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	13	115 N	19 W	444612.00	930239.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

5.2 MILES NORTH OF COATES, 3.9 MILES NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 160TH STREET EAST, 0.3 MILE (TAKE EXIT 117 STREET), THEN 0.3 MILE WEST ON 117TH STREET EAST, 0.7 MILE ON CLARK ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.870 12B = -91.857 09 = -91.808 03 = -91.640

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61179.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61179.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 64 L868

NGS Name: TBM 64

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6047](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	34	27 N	22 W	444647.00	930239.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

4.3 MILES NORTH OF COATES, 3.9 MILES NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 160TH STREET EAST, (TAKE EXIT 117TH STREET), 0.6 MILE WEST ON 117TH STREET EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.749 12B = -91.732 09 = -91.689 03 = -91.525

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61300.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61300.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 65 L868

NGS Name: TBM 65

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6048](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	27 N	22 W	444722.00	930240.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

6.1 MILES NORTH OF COATES, 3.9 MILES NORTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND 160TH STREET EAST, THEN 1.0 MILE WEST ON 117TH STREET EAST, 102.0 FEET NORTH ON, 0.8 MILE NORTH (UNKNOWN STREET) ON THE SIDE OF A RAILROAD TRACK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.627 12B = -91.611 09 = -91.571 03 = -91.404

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61439.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61439.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 66 A L22891

NGS Name: TBM 66 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM4800](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	30	114 N	18 W	443923.00	930124.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1972	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2010)

Stamping:

4.3 MILES SOUTH OF COATES, 3.8 MILES SOUTH ON TRUNK HIGHWAY 52 FROM THE JUNCTION OF COUNTY ROAD 46 AND TRUNK HIGHWAY 52 SOUTH, THEN 0.8 MILE WEST ON COUNTY ROAD 66.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.710 12B = -93.704 09 = -93.638 03 = -93.468

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61441.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61441.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 66 L868

NGS Name: TBM 66

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6049](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	22	27 N	22 W	444833.00	930211.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.6 MILES SOUTH OF INVER GROVE HEIGHTS, 1.1 MILES SOUTH ON CONCORD BOULEVARD EAST, (TURN LEFT AT COUNTY ROAD 77), THEN CONTINUE ON INVER GROVE TRAIL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.499 12B = -91.489 09 = -91.440 03 = -91.270

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61452.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61452.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 67 L868

NGS Name: TBM 67

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6050](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	22	27 N	22 W	444904.00	930159.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.3 MILES SOUTH OF INVER GROVE HEIGHTS, 2.1 MILES SOUTH ON CAHILL AVENUE EAST FROM THE JUNCTION OF CAHILL AVENUE EAST AND 70TH STREET EAST, THEN 0.3 MILE EAST ON CONCORD BOULEVARD EAST, 0.3 MILE EAST ON COFFMAN PATH, 0.3 MILE ON CHENEY TRAIL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.440 12B = -91.434 09 = -91.381 03 = -91.207

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61576.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61576.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 68 L868

NGS Name: TBM 68

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6051](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	15	27 N	22 W	444935.00	930147.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.6 MILES SOUTH OF INVER GROVE HEIGHTS, 1.0 MILE SOUTH ON CAHILL AVENUE FROM THE JUNCTION OF CAHILL AVENUE AND 70TH STREET EAST, 0.7 MILE EAST ON 80TH STREET EAST, THEN 0.1 MILE ON COPPER AVENUE EAST, 190.0 FEET ON CUNEEN TRAIL EAST, 0.4 MILE SOUTH ON COPPER AVENUE EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.384 12B = -91.384 09 = -91.329 03 = -91.151

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61591.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61591.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 69 L868

NGS Name: TBM 69

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6052](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	10	27 N	22 W	445010.00	930134.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2010)

Stamping:

1.2 MILES SOUTHEAST OF INVER GROVE HEIGHTS, 1.1 MILES EAST ON 70TH STREET EAST FROM THE JUNCTION OF 70TH STREET EAST AND CAHILL AVENUE, THEN 0.7 MILE SOUTH ON CONCORD BOULEVARD, 0.1 MILE WEST ON 78TH STREET EAST 400.0 FEET SOUTH ON DAWN AVENUE EAST, THEN 387.0 FEET ON COREY PATH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.322 12B = -91.332 09 = -91.270 03 = -91.092

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61714.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61714.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 70 L868

NGS Name: TBM 70

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6053](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	11	27 N	22 W	445047.00	930120.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.0 MILE EAST OF INVER GROVE HEIGHTS, 1.0 MILE EAST ON 70TH STREET EAST FROM THE JUNCTION OF CAHILL AVENUE EAST AND 70TH STREET EAST 0.1 MILE SOUTH ON DELANEY AVENUE EAST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.273 12B = -91.283 09 = -91.214 03 = -91.030

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62054.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62054.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 71 L868

NGS Name: TBM 71

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6054](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	35	28 N	22 W	445155.00	930124.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.5 MILES NORTHEAST OF INVER GROVE HEIGHTS 1.1 MILES EAST OF 70TH STREET EAST FROM THE JUNCTION OF CAHILL AVENUE EAST AND 70TH STREET EAST, THEN 1.2 MILES NORTH ON CONCORD BOULEVARD EAST, 121.0 FEET EAST ON OAK STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.079 12B = -91.092 09 = -91.010 03 = -90.833

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62042.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62042.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 72 L868

NGS Name: TBM 72

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6055](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	27	28 N	22 W	445236.00	930142.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.1 MILES NORTHEAST OF INVER GROVE HEIGHTS 1.1 MILES. EAST ON 70TH STREET EAST FROM THE JUNCTION OF CAHILL AVENUE EAST AND 70TH STREET EAST THEN 1.8 MILES NORTH ON CONCORD BOULEVARD EAST 0.1 MILE EAST ON RICHMOND STREET EAST 0.1 MILE NORTH ON SCHUMAKER ROAD 72.0 FEET NORTHEAST ON MALDEN STREET THEN 0.1 MILE NORTH ON CLINTON.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.922 12B = -90.932 09 = -90.853 03 = -90.676

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62066.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62066.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 73 L868

NGS Name: TBM 73

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6056](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	27	28 N	22 W	445312.00	930157.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

0.5 MILE NORTH OF SOUTH ST. PAUL, 0.4 MILE SOUTHEAST ON CONCORD STREET NORTH FROM THE JUNCTION OF GRAND AVENUE WEST AND CONCORD STREET NORTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.794 12B = -90.804 09 = -90.728 03 = -90.551

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62211.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62211.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 74 L868

NGS Name: TBM 74

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6057](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	22	28 N	22 W	445358.00	930229.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.7 MILES SOUTH OF ST. PAUL FROM THE JUNCTION OF CONCORD STREET NORTH AND 52, SOUTH 0.2 MILE TO THOMPSON AVENUE EXIT EAST THEN 0.8 MILE EAST ON THOMPSON AVENUE TO 13TH AVENUE NORTH 0.1 MILE TO DWANE STREET 0.5 MILE TO STEWART AVENUE NORTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.610 12B = -90.617 09 = -90.541 03 = -90.367

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62351.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62351.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 75 L868

NGS Name: TBM 75

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6058](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	16	28 N	22 W	445427.00	930258.00			1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION
						<u>Disk Type</u>	<u>Mon. Agency</u>								
						IRON ROD	UNMONUMENTED								
							NGS								

Description:

Stamping:

1.3 MILES FROM SOUTH ST. PAUL, 1.7 MILES FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND CONCORD STREET, SOUTHEAST (ON THE RIGHT).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.482 12B = -90.485 09 = -90.413 03 = -90.239

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62363.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62363.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 76 L868

NGS Name: TBM 76

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [BQ6059](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	16	28 N	22 W	445438.00	930309.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1933	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.6 MILES FROM SOUTH ST. PAUL, 1.1 MILES FROM THE JUNCTION OF GRAND AVENUE EAST AND CONCORD STREET NORTHWEST 0.1 MILE WEST ON BRYANT AVENUE THEN 0.4 MILE NORTHWEST ON SUMMIT AVENUE. (ON THE RIGHT)

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.436 12B = -90.439 09 = -90.367 03 = -90.193

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62374.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62374.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 1 L24283

NGS Name: TBM 85 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8895](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	33	28 N	22 W	445226.00	930301.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.8 MILES NORTH OF INVER GROVE HEIGHTS, 1.8 MILES FROM THE JUNCTION OF 70TH STREET EAST AND BLAINE AVENUE EAST, 0.1 MILE EAST ON 52ND STREET EAST THEN, 121.0 FEET SOUTH ON BOVEY AVENUE EAST (ON THE RIGHT).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.689 12B = -90.699 09 = -90.640 03 = -90.446

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60765.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60765.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 10 L24283

NGS Name: TBM 85 10

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8904](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	3	27 N	23 W	445137.00	930907.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

4.0 MILES NORTHEAST OF EAGAN. FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND DIFFLEY ROAD, 1.9 MILES NORTHEAST ON INTERSTATE HIGHWAY 35E, NORTH 2.1 MILES NORTH ON PILOT KNOB ROAD THEN 0.6 MILE EAST ON INTERSTATE HIGHWAY 494 EAST, 0.1 MILE SOUTH ON INTERSTATE HIGHWAY 35E.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.878 12B = -89.882 09 = -89.803 03 = -89.639

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60766.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60766.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 2 L24283

NGS Name: TBM 85 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8896](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	33	28 N	22 W	445218.00	930339.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

5.2 MILES SOUTH OF ST. PAUL, 4.0 MILES FROM TRUNK HIGHWAY 52 SOUTH AND CONCORD STREET. (ON THE RIGHT)

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.590 12B = -90.600 09 = -90.548 03 = -90.344

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60767.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60767.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 3 L24283

NGS Name: TBM 85 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8897](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	32	28 N	22 W	445209.00	930424.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.2 MILES FROM INVER GROVE HEIGHTS, 1.0 MILE FROM THE JUNCTION OF TRUNK HIGHWAY 52 NORTH AND 70TH STREET EAST 2.2 MILES WEST ON UPPER 55TH STREET EAST (ON THE RIGHT).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.482 12B = -90.489 09 = -90.443 03 = -90.236

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60768.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60768.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 4 L24283

NGS Name: TBM 85 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8898](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	31	28 N	22 W	445204.00	930512.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

3.1 MILES SOUTH OF ST. PAUL, FROM THE JUNCTION OF CONCORD STREET AND TRUNK HIGHWAY 52 SOUTH 3.5 MILES SOUTH ON HIGHWAY 52 SOUTH TO HIGHWAY I-494 WEST 1.7 MILES ON INTERSTATE HIGHWAY 494 WEST (ON THE RIGHT).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.364 12B = -90.374 09 = -90.321 03 = -90.124

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60769.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60769.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 5 L24283

NGS Name: TBM 85 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8899](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	31	28 N	22 W	445214.00	930546.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.2 MILES SOUTHEAST OF MENDOTA HEIGHTS, 1.6 MILES EAST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 110 IN MENDOTA HEIGHTS, THEN 0.8 MILE SOUTH ON COUNTY ROAD 63, THEN 0.5 MILE EAST OF SALEM CHURCH ROAD.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.262 12B = -90.269 09 = -90.216 03 = -90.023

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60770.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60770.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 6 L24283

NGS Name: TBM 85 6

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8900](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	31	28 N	22 W	445202.00	930617.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description: (2012)

Stamping:

1.9 MILES SOUTHEAST OF MENDOTA HEIGHTS, 2.7 MILES EAST AND SOUTH ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY IN MENDOTA HEIGHTS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.213 12B = -90.223 09 = -90.157 03 = -89.974

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60773.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60773.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 7 L24283

NGS Name: TBM 85 7

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8901](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	1	27 N	23 W	445142.00	930647.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

2.0 MILES SOUTHEAST OF MENDOTA HEIGHTS, 1.6 MILES EAST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 110 IN MENDOTA HEIGHTS, THEN 1.7 MILES SOUTH ALONG COUNTY ROAD 63, THEN 0.5 MILE WEST ON O'NEILL DRIVE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.180 12B = -90.193 09 = -90.118 03 = -89.941

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60774.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60774.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 8 L24283

NGS Name: TBM 85 8

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8902](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	36	28 N	23 W	445143.00	930727.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.6 MILES SOUTHEAST OF MENDOTA HEIGHTS, 0.7 MILE EAST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF TRUNK HIGHWAY 110 AND INTERSTATE HIGHWAY 35E IN MENDOTA HEIGHTS, THEN 1.6 MILES SOUTH ON DODD ROAD, THEN 0.2 MILE NORTHEAST ON AN ON RAMP TO INTERSTATE HIGHWAY 494, 15.0 FEET NORTH OF AN ON RAMP TO INTERSTATE HIGHWAY 494.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.088 12B = -90.098 09 = -90.020 03 = -89.849

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60775.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60775.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 85 9 L24283

NGS Name: TBM 85 9

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AK8903](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	2	27 N	23 W	445138.00	930825.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1977	1977	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	NGS

Description:

Stamping:

1.6 MILES SOUTH OF MENDOTA HEIGHTS, 0.7 MILE EAST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E IN MENDOTA HEIGHTS, THEN 1.8 MILES SOUTH ON DODD ROAD/TRUNK HIGHWAY 149, THEN 0.9 MILE WEST ON BLUE GENTIAN ROAD, THEN 0.2 MILE NORTHEAST ON BLUE GENTIAN ROAD/BLUE GENTIAN CIRCLE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.967 12B = -89.974 09 = -89.895 03 = -89.724

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60776.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60776.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM 87 00 L22196-5

NGS Name: TBM 87 00

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO5556](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	16	28 N	22 W	445452.00	930354.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description:

1.8 MILES EAST OF WEST ST. PAUL, 0.2 MILE SOUTH ALONG SMITH AVENUE FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND SMITH AVENUE IN WEST ST. PAUL, THEN 1.7 MILES EAST ON BUTLER AVENUE/COUNTY ROAD 4, THEN 335.0 FEET NORTH ON WATERLOO AVENUE, THEN 289.0 FEET EAST ON STANLEY STREET, THEN 430.0 FEET NORTH ON WATERLOO AVENUE.

Stamping:

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.295 12B = -90.295 09 = -90.236 03 = -90.056

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61031.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61031.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM A 110 55 L22410

NGS Name: TBM A 110 55

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9720](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	27	28 N	23 W	445252.00	931001.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.6 MILE NORTH ALONG COUNTY ROAD 31 FROM THE JUNCTION OF COUNTY ROAD 31 AND TRUNK HIGHWAY 13.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.685 12B = -89.685 09 = -89.600 03 = -89.452

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61785.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61785.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM A L22320-2

NGS Name: TBM A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN3736](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	27	28 N	23 W	445259.00	930916.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.4 MILE WEST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF COUNTY ROAD 43 AND TRUNK HIGHWAY 110.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.757 12B = -89.754 09 = -89.682 03 = -89.524

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61918.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61918.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM A L22326-2

NGS Name: TBM A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN3657](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	27	28 N	23 W	445259.00	930917.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.8 MILE WEST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF TRUNK HIGHWAY 110 AND INTERSTATE HIGHWAY 35E.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.757 12B = -89.754 09 = -89.682 03 = -89.524

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61919.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61919.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM A L22410

NGS Name: TBM A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9732](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	27	28 N	23 W	445259.00	930915.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

0.7 MILE WEST OF MENDOTA HEIGHTS, 1.1 MILES WEST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 110 IN MENDOTA HEIGHTS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.760 12B = -89.757 09 = -89.685 03 = -89.527

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61922.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61922.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM B L22410

NGS Name: TBM B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9721](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	28 N	23 W	445222.00	930935.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.06 MILE NORTHEAST ALONG TRUNK HIGHWAY 13 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55, THEN 0.08 MILE SOUTH ON LEMAY LAKE ROAD, THEN 0.09 MILE EAST ON LAKEVIEW AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.764 12B = -89.764 09 = -89.685 03 = -89.531

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62091.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62091.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM BM 1 L22184

NGS Name: TBM BM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0963](#) [Get Map](#)
 NGS Quad / Sta Num : 44092424/
 USGS Quad: DIAMOND BLUFF WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	16	114 N	16 W	444035.00	924457.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN HASTINGS, 0.06 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61, THEN 1.3 MILES EAST ALONG COUNTY ROAD 54.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.487 12B = -97.493 09 = -97.431 03 = -97.270

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62109.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62109.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM BM 2 L22184

NGS Name: TBM BM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0964](#) [Get Map](#)
 NGS Quad / Sta Num : 44092424/
 USGS Quad: DIAMOND BLUFF WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	28	114 N	16 W	443928.00	924359.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

8.0 MILES SOUTHEAST OF HASTINGS, 6.5 MILES SOUTHEAST ALONG COUNTY ROAD 54 FROM THE JUNCTION OF COUNTY ROAD 54 AND COUNTY ROAD 91.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.739 12B = -97.746 09 = -97.684 03 = -97.539

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62245.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62245.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM C L22196-5

NGS Name: TBM C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO5557](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	28 N	22 W	445408.00	930329.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN SOUTH ST. PAUL, 0.4 MILE EAST ALONG COUNTY ROAD 6 FROM THE JUNCTION OF COUNTY ROAD 6 AND TRUNK HIGHWAY 52, THEN 0.05 MILE NORTH ON 19TH AVENUE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.420 12B = -90.423 09 = -90.361 03 = -90.180

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62397.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62397.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM CK PT 13 R L22368

NGS Name: TBM CK PT 13 R

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9128](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	27 N	24 W	444758.00	931723.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN BURNSVILLE, 1.6 MILES NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 W AND TRUNK HIGHWAY 13.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.186 12B = -89.189 09 = -89.104 03 = -88.930

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62554.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62554.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM CK PT 55 L22196-11

NGS Name: TBM CK PT 55

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO1233](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	23 W	445303.00	931016.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1968	1968	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.8 MILE NORTHWEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.649 12B = -89.649 09 = -89.563 03 = -89.413

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62561.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62561.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM D L22196-5

NGS Name: TBM D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO5558](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	21	28 N	22 W	445341.00	930314.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN SOUTH ST. PAUL, 0.7 MILE EAST ALONG COUNTY ROAD 8 FROM THE JUNCTION OF TRUNK HIGHWAY 52 AND COUNTY ROAD 8, THEN 0.3 MILE SOUTH ON COUNTY ROAD 8 (15TH AVENUE).

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.505 12B = -90.512 09 = -90.449 03 = -90.266

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_62576.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_62576.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM E L22196-5

NGS Name: TBM E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [ZZ1495](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	28	28 N	22 W	445306.00	930350.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN SOUTH ST. PAUL, 1.0 MILE NORTH ALONG COUNTY ROAD 75 (7TH AVENUE SOUTH) FROM THE JUNCTION OF INTERSTATE HIGHWAY 494 AND COUNTY ROAD 75, THEN 0.4 MILE WEST ALONG COUNTY ROAD 14 (SOUTHVIEW BOULEVARD).

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	951.494	0.016	290.016	0.005	2/0	1991	0000025

Geoid Separations(ft): GEOID18 = -90.567 12B = -90.574 09 = -90.512 03 = -90.325

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60323.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60323.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM E L22410

NGS Name: TBM E

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9723](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445144.00	930901.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.8 MILE EAST ALONG INTERSTATE HIGHWAY 494 FROM THE JUNCTION OF COUNTY ROAD 31 AND INTERSTATE HIGHWAY 494.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.878 12B = -89.885 09 = -89.806 03 = -89.642

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60326.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60326.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM F L22196-5

NGS Name: TBM F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO5559](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	28	28 N	22 W	445306.00	930254.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN SOUTH ST. PAUL, 0.7 MILE NORTH ALONG COUNTY ROAD 75 FROM THE JUNCTION OF COUNTY ROAD 75 AND INTERSTATE HIGHWAY 494, THEN 0.3 MILE WEST ON 4TH STREET SOUTH.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.630 12B = -90.636 09 = -90.574 03 = -90.387

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60334.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60334.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM F L22410

NGS Name: TBM F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9724](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	2	27 N	23 W	445128.00	930833.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN EAGAN, 0.4 MILE EAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 55 IN EAGAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.964 12B = -89.970 09 = -89.892 03 = -89.724

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60338.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60338.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM F PP1438

NGS Name: TBM F

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1438](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	31	28 N	22 W	445259.00	930618.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	2014	DESTROYED	Horz=NO Vert=NO	NO			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
UNKNOWN	SEE DESCRIPTION	NGS

Description: (1967)

Stamping:

IN ST. PAUL, AT THE INTERSECTION OF DELAWARE AVENUE AND TRUNK HIGHWAY 110, IN THE NORTHEAST CORNER OF THE BOTTOM STEP OF THE EAST ENTRANCE TO THE BACK END OF THE BETHEL BAPTIST CHURCH.

Station Notes

THIS MARK WAS ADDED TO MATCH THE NATIONAL GEODETIC SURVEY (NGS) DATABASE, THE PROJECT IS UNKNOWN SO THE ACRN WAS USED TO MAKE THE NAME UNIQUE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	918.144	0.007	279.851	0.002	1/1	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -90.111 12B = -90.115 09 = -90.072 03 = -89.878

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_85097.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_85097.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM FIRE HYD VAPVY

NGS Name: TBM FIRE HYD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DJ8741](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	20 W	444435.78	931226.13	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
HYDRANT	SEE DESCRIPTION	MNDT

Description: (2007)

Stamping:

TBM FIRE HYD VAPVY, POINT OF OBSERVATION IS TOP NUT OF A FIRE HYDRANT, ON GALAXY AVENUE.

Station Notes

NORTHEAST QUADRANT OF GALAXIE AVENUE AND FLAGSTONE TRAIL.
 NO DATA ON DATA SHEET IN NGSIDB

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u>	<u>Project Info</u>	
	<u>Datum</u>	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>		<u>Accuracy</u>	<u>Order/(Class)</u>
NAVD88	964.660	0.016	294.029	0.005	2/1	2008	00000561

Geoid Separations(ft): GEOID18 = -90.318 12B = -90.321 09 = -90.259 03 = -90.049

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_63398.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_63398.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM G L22196-7

NGS Name: TBM G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO4783](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	23 W	445300.00	930613.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 1.6 MILES WEST ALONG TRUNK HIGHWAY 110 FROM THE JUNCTION OF COUNTY ROAD 63 AND TRUNK HIGHWAY 110.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.865 12B = -89.869 09 = -89.800 03 = -89.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_61660.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_61660.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM G L22410

NGS Name: TBM G

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9725](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	2	27 N	23 W	445120.00	930815.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.5 MILE NORTHWEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 55.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.020 12B = -90.026 09 = -89.947 03 = -89.777

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60348.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60348.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM H 1 L22410

NGS Name: TBM H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9726](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	2	27 N	23 W	445114.00	930759.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN EAGAN, 0.8 MILE EAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 55 IN EAGAN.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.065 12B = -90.072 09 = -89.993 03 = -89.823

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60480.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60480.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM H 2 L22410

NGS Name: TBM H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9731](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	26	28 N	23 W	445240.00	930756.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.4 MILE SOUTH ALONG TRUNK HIGHWAY 149 FROM THE JUNCTION OF TRUNK HIGHWAY 149 AND TRUNK HIGHWAY 110, THEN 0.3 MILE WEST ALONG MENDAKOTA DRIVE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.934 12B = -89.941 09 = -89.875 03 = -89.705

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60481.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60481.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM H 3 L22184

NGS Name: TBM H 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AP0958](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	27	115 N	17 W	444443.00	925042.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1965	1965	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN HASTINGS, 0.6 MILE NORTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 61, THEN 0.4 MILE EAST ON 3RD STREET, THEN 0.1 MILE NORTH ON BASS STREET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -95.410 12B = -95.413 09 = -95.380 03 = -95.187

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60473.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60473.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM H L22196-7

NGS Name: TBM H

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO4782](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	26	28 N	23 W	445302.00	930727.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1967	1967	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 3.9 MILES WEST AND SOUTH ALONG INTERSTATE HIGHWAY 35E FROM THE JUNCTION OF INTERSTATE HIGHWAY 35E AND TRUNK HIGHWAY 110 IN MENDOTA HEIGHTS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.865 12B = -89.869 09 = -89.800 03 = -89.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60478.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60478.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM L + D C USE

NGS Name: L+D C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0618](#) [Get Map](#)
 NGS Quad / Sta Num : 44092442/
 USGS Quad: PRESCOTT

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	115 N	17 W	444533.66	925204.31	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	2011	GOOD	Horz=YES Vert=YES	YES		PROJECTS 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE/BITUMINOUS SLAB	BOLT	USACE

Description: (2012)

Stamping:

1.0 MILE NORTHWEST OF HASTINGS, ON THE NORTH WALL OF THE SOUTH LOCK AT LOCK AND DAM NUMBER 2, 174.6 FEET NORTHEAST OF A BITUMINOUS ROAD, 1.0 FOOT NORTH OF A BOLLARD, 2.0 FEET NORTHEAST OF A METAL RAILING, ABOUT 300.0 FEET SOUTHEAST OF THE UPSTREAM GATE, NEAR AN ELECTRICAL PANEL, 9.0 FEET SOUTHWEST OF A LIGHT POLE.

Station Notes

THE MARK IS A LEAD BOLT IN A WALKWAY, A TOE STUBBER. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	693.368	0.016	211.339	0.005	2/0	1995	00000136
NGVD29	693.217	0.016	211.293	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -94.747 12B = -94.777 09 = -94.754 03 = -94.527

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/L+D_C-PP0618-3SE-13SEP2011.jpg	SE	Sep 13, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/L+D_C-PP0618-2-13SEP2011.jpg		Sep 13, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/L+D_C-PP0618-1-13SEP2011.jpg		Sep 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7563.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7563.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM LD L22353

NGS Name: TBM LD

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN2781](#) [Get Map](#)
 NGS Quad / Sta Num : 44092442/
 USGS Quad: PRESCOTT

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	21	115 N	17 W	444530.00	925155.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

1.8 MILES NORTHWEST OF HASTINGS, 2.1 MILES NORTH AND NORTHWEST ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 55 IN HASTINGS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.813 12B = -94.839 09 = -94.819 03 = -94.593

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60642.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60642.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM P SOUTH L22368

NGS Name: TBM P SOUTH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9127](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	28	27 N	24 W	444759.00	931723.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN BURNSVILLE, 1.7 MILES NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF TRUNK 13 AND INTERSTATE HIGHWAY 35W.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.186 12B = -89.189 09 = -89.104 03 = -88.930

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60790.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60790.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM PBM 117 B L22335

NGS Name: TBM PBM 117 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9453](#) [Get Map](#)
 NGS Quad / Sta Num : 44093132/
 USGS Quad: NEW MARKET

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	19	113 N	20 W	443514.00	931612.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

4.6 MILES NORTHEAST OF NEW MARKET, 2.5 MILES EAST AND NORTH ALONG COUNTY ROAD 54 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 54 IN NEW MARKET.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.217 12B = -91.220 09 = -91.178 03 = -90.981

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60793.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60793.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM PBM 35 W 3 L22332

NGS Name: TBM PBM 35 W 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN2616](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	34	27 N	24 W	444643.00	931716.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN BURNSVILLE, 0.2 MILE NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND INTERSTATE HIGHWAY 35W.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.298 12B = -89.301 09 = -89.232 03 = -89.042

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60809.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60809.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM PBM 35 W 4 L22332

NGS Name: TBM PBM 35 W 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AN2617](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	34	27 N	24 W	444710.00	931717.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1970	1970	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

0.8 MILE NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.265 12B = -89.265 09 = -89.189 03 = -89.006

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60810.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60810.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM PBM 55 L22196-11

NGS Name: TBM PBM 55

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AO1232](#) [Get Map](#)
 NGS Quad / Sta Num : 44093114/
 USGS Quad: ST PAUL WEST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	28	28 N	23 W	445303.00	931016.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1968	1968	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 0.8 MILE NORTHWEST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 55.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.649 12B = -89.649 09 = -89.563 03 = -89.413

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60812.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60812.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TBM PBM D L22410

NGS Name: TBM PBM D

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AM9722](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	34	28 N	23 W	445146.00	930903.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1971	1971	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
IRON ROD	UNMONUMENTED	MNDT

Description: (2012)

Stamping:

IN MENDOTA HEIGHTS, 1.0 MILE SOUTHEAST ALONG TRUNK HIGHWAY 55 FROM THE JUNCTION OF TRUNK HIGHWAY 55 AND TRUNK HIGHWAY 13.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.872 12B = -89.878 09 = -89.796 03 = -89.636

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_60818.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_60818.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TOWN HALL MN037

NGS Name: TOWN HALL

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5085](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	14	112 N	20 W	443014.81	931203.17		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2020	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** TOWN HALL 1991

4.0 MILES NORTHWEST OF NORTHFIELD, IN GREENVALE TOWNSHIP, 2.75 MILES SOUTH ALONG COUNTY ROAD 23 (FOLIAGE AVENUE) FROM THE JUNCTION OF COUNTY ROAD 23 AND COUNTY ROAD 86 (280TH STREET), IN THE SOUTHEAST QUADRANT OF THE JUNCTION OF COUNTY ROAD 23 AND COUNTY ROAD 90 (307TH STREET), 27.0 FEET EAST OF COUNTY ROAD 23, 21.0 FEET SOUTH OF COUNTY ROAD 90, 4.0 FEET OFF THE EDGE OF THE ASPHALT, 6.7 FEET NORTHWEST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.605 12B = -92.634 09 = -92.579 03 = -92.408

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 30 14. 80889	93 12 03. 17321	530210. 293	111749. 990	161608. 421	34061. 465	264. 547			2014	GPS3021	
NAD83 (2007)	44 30 14. 80900	93 12 03. 17394	530210. 240	111750. 002	161608. 405	34061. 469	264. 571			2007	GPS2300	
NAD83 (1996)	44 30 14. 80808	93 12 03. 17263	530210. 336	111749. 908	161608. 434	34061. 440	264. 626	C		2012	HNORTH	
NAD83 (1986)	44 30 14. 80100	93 12 03. 17280	530210. 324	111749. 193	161608. 430	34061. 222		C		1992	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TOWN_HALL-AC5085-3S-04OCT2011.jpg	S	Oct 4, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TOWN_HALL-AC5085-2-04OCT2011.jpg		Oct 4, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TOWN_HALL-AC5085-1-04OCT2011.jpg		Oct 4, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7564.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7564.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TRAILER MN037

NGS Name: TRAILER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093131/
 USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	115 N	21 W	444404.25	931924.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1992) **Stamping:** TRAILER 1988

IN BURNSVILLE, 0.8 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 42 AND BURNSVILLE PARKWAY, 30.0 FEET EAST OF BURNSVILLE PARKWAY, 23.0 FEET SOUTH OF THE SOUTH TRAILER PARK ENTRANCE.

Station Notes

THE TIES FALL IN A SIDEWALK, BELIEVED DESTROYED.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.278 12B = -89.271 09 = -89.212 03 = -89.022

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 44 04.25131	93 19 24.00380	498267.160	195731.584	151872.134	59659.106			C	1989	C019	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7565.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7565.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TRI MN037

NGS Name: TRI

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AH4359](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	29	27 N	23 W	444725.00	931200.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	HORIZONTAL CONTROL DISK	MN-037

Description: (1988) **Stamping:** TRI 1988

AT EAGAN, IN THE NORTHEAST QUADRANT OF THE JUNCTION OF COUNTY ROAD 32 (CLIFF ROAD) AND INTERSTATE HIGHWAY 35E, IN GRASS ISLAND, 39.0 FEET NORTH OF WESTBOUND COUNTY ROAD 32, 80.0 FEET WEST OF A POWER POLE, 28.0 FEET EAST OF A SIGNAL LIGHT, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	960.887	0.016	292.879	0.005	2/1	2000	00000359
NGVD29	960.651	0.016	292.807	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.924 12B = -89.931 09 = -89.862 03 = -89.672

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 47 25.01319	93 11 58.84640	530373.995	216086.257	161658.317	65863.223			C	1991	H1991	

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7566.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7566.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 1 ADP USGS

NGS Name: TT 1 ADP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093113/1098
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	27 N	23 W	445134.97	930850.59		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1964	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	USGS

Description: (1995) **Stamping:** 1 ADP 1950 891

197.0 FEET NORTHWEST OF TRUNK HIGHWAY 43, 74.0 FEET NORTHEAST OF TRUNK HIGHWAY 55, 800.0 FEET NORTH OF CENTER MAST AT FAA RADIO RANGE, 351.0 FEET SOUTH OF A BARN, AMIDST TREE LINE, 3.0 FEET SOUTHWEST OF A POWER POLE.

Station Notes

JULY 1995 DISTRICT 9 SURVEYS COULD NOT FIND THE STATION-NO LOCAL REFERENCE TIES ARE LEFT, PLOTS 35.0 FEET NORTHEAST OF TRUNK HIGHWAY 55, BETWEEN INTERSTATE HIGHWAY 35E AND EAGANDALE BOULEVARD, 345.0 FEET SOUTHEAST OF NORTHBOUND EAGANDALE, 125.0 FEET NORTHWEST OF THE NORTHWEST END OF A BRIDGE RAIL.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NGVD29	890.487	0.016	271.421	0.005	2	1973	L138 MINN

Geoid Separations(ft): GEOID18 = -89.915 12B = -89.921 09 = -89.842 03 = -89.675

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 51 34.97941	93 08 50.59327	543898.345	241426.673	165780.547	73586.997			1991	H1991		
NAD27	44 51 35.10519	93 08 49.79920							1950	UNK		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7567.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7567.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 1 WM

NGS Name: TT 1 WM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SW	9	114 N	18 W	444143.00	925939.00			1955	2022	NOT FOUND	Horz=NO Vert=NO	NO			MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	USGS

Description: (1965) **Stamping:** TT 1 WM 1955

2.5 MILES NORTH AND 1.0 MILE EAST OF EMPIRE CITY, 1.0 FOOT NORTH AND 38.0 FEET EAST OF THE CENTER OF A ROAD (EMERY AVENUE) AT A FENCE EAST, 35.0 FEET NORTH AND 13.0 FEET EAST OF A POWER POLE, 1.0 FOOT NORTH AND 12.0 FEET EAST OF A FENCE CORNER.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -93.533 12B = -93.553 09 = -93.487 03 = -93.290

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_73883.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_73883.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 2 WM

NGS Name: TT 2 WM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0568](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	32	114 N	18 W	443802.77	925942.28	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** TT 2 WM 1955

1.25 MILES NORTH OF HAMPTON, AT TRUNK HIGHWAY 52 MILEPOINT 107.95, 71.8 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 49.0 FEET NORTHWEST OF NORTHWEST POST FOR SIGN, 0.7 FOOT EAST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	967.186	0.016	294.799	0.005	2/1	2016	00000879
NGVD29	967.022	0.016	294.749	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.353 12B = -94.340 09 = -94.285 03 = -94.124

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 38 02.76885	92 59 42.28200	583720.403	159286.806	177918.335	48550.716	266.042			2016	GPS3146	
NAD83 (1996)	44 38 02.76871	92 59 42.28247	583720.370	159286.792	177918.325	48550.711	266.101	C		2016	HCOAT	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TT_2_WM-PP0568-3W-20OCT2022.jpg	W	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TT_2_WM-PP0568-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TT_2_WM-PP0568-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7568.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7568.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TT 3 WM

NGS Name: TT 3 WM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DK6874](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	28	113 N	18 W	443359.20	925940.42	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1955	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 10 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	USGS

Description: (2011) **Stamping:** TT 3 WM 1955

3.5 MILES SOUTH OF HAMPTON, 2.45 MILES SOUTH ALONG TRUNK HIGHWAY 56 FROM THE JUNCTION OF TRUNK HIGHWAY 56 AND TRUNK HIGHWAY 50 SOUTH OF HAMPTON, AT TRUNK HIGHWAY 56 MILEPOINT 96.35, 55.5 FEET EAST OF TRUNK HIGHWAY 56, 52.7 FEET SOUTH OF A POWER POLE, 10.8 FEET SOUTH OF A RIGHT-OF-WAY POST, 0.9 FOOT WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	899.650	0.016	274.214	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -94.908 12B = -94.901 09 = -94.842 03 = -94.705

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TT_3_WM-DK6874-3E-06OCT2022.jpg	E	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TT_3_WM-DK6874-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TT_3_WM-DK6874-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_53811.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_53811.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TURKEY MN037

NGS Name: TURKEY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DH4950](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	34	115 N	19 W	444336.10	930528.08	2	B

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1990	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (<10 FT) (DEPTH 9 FT)	SURVEY DISK	MN-037

Description: (2014) **Stamping:** TURKEY

IN ROSEMOUNT, 2.25 MILES EAST ALONG COUNTY ROAD 42 (150TH STREET WEST) FROM THE JUNCTION OF COUNTY ROAD 42 AND TRUNK HIGHWAY 3 IN ROSEMOUNT, THEN 0.85 MILE SOUTH ON AKRON AVENUE, THEN 0.3 MILE WEST ON 154TH STREET, 21.0 FEET WEST OF A FIELD ROAD, 72.0 FEET NORTH OF A POWER POLE, 33.6 FEET SOUTHEAST OF A TELEPHONE PEDESTAL, 11.0 FEET NORTH ON 154TH STREET, 4.0 FEET SOUTH OF A WITNESS POST.

Station Notes

UNSTAMPED YEAR.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	943.591	0.016	287.607	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -91.876 12B = -91.873 09 = -91.811 03 = -91.617

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 43 36.10074	93 05 28.07725	558620.791	192961.649	170267.958	58814.828	259.597			2018	GPS3119	
NAD83 (2007)	44 43 36.10085	93 05 28.07803	558620.734	192961.660	170267.940	58814.832	259.628			2007	GPS2300	
NAD83 (1996)	44 43 36.10060	93 05 28.07765	558620.762	192961.635	170267.949	58814.824	259.675	B		2005	GPS2036	
NAD83 (1986)	44 43 36.09301	93 05 28.07430	558621.005	192960.867	170268.023	58814.590		C		1990	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TURKEY-DH4950-3N-21JUL2023.jpg	N	Jul 21, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TURKEY-DH4950-2-21JUL2023.jpg		Jul 21, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TURKEY-DH4950-1-21JUL2023.jpg		Jul 21, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7569.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7569.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: TUTTLE

NGS Name: TUTTLE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ1103](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SE	3	114 N	17 W	444226.33	925013.79	2	C

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

Monument Type	Disk Type	Mon. Agency
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 48 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** TUTTLE 2018

IN HASTINGS, 1.0 MILE SOUTHEAST ALONG TRUNK HIGHWAY 316 FROM THE JUNCTION OF TRUNK HIGHWAY 316 AND TRUNK HIGHWAY 61 IN HASTINGS, AT TRUNK HIGHWAY 316 MILEPOINT 8.8, 144.0 FEET SOUTHWEST OF TRUNK HIGHWAY 316, 46.5 FEET SOUTHEAST OF TUTTLE DRIVE, 1.5 FEET NORTHWEST OF A WITNESS POST.

Station Pair: NEILL - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	828.686	0.016	252.584	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -96.030 12B = -96.020 09 = -95.971 03 = -95.807

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions			County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year			Reference	
NAD83 (2011)	44 42 26.33104	92 50 13.79067	624673.293	186181.399	190400.801	56748.204	223.307			2016	GPS3147
NAD83 (1996)	44 42 26.33096	92 50 13.79112	624673.261	186181.390	190400.791	56748.201	223.369	C		2016	HMTS

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TUTTLE-DQ1103-3S-27SEP2022.jpg	S	Sep 27, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TUTTLE-DQ1103-2-27SEP2022.jpg		Sep 27, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/TUTTLE-DQ1103-1-27SEP2022.jpg		Sep 27, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103427.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103427.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 131

NGS Name: U 131

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1005](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	112 N	18 W	443133.00	930016.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1995) **Stamping:** U-131 1934

0.6 MILE EAST OF RANDOLPH, 0.6 MILE EAST ALONG 292ND STREET EAST FROM THE JUNCTION OF 292ND STREET EAST AND DOUGLAS AVENUE IN RANDOLPH.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	875.878	0.016	266.968	0.005	2/0	1991	00000025
NGVD29	875.776	0.007	266.937	0.002	1	1934	L79 MINN

Geoid Separations(ft): GEOID18 = -94.974 12B = -94.974 09 = -94.918 03 = -94.796

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7570.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7570.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: U 26

NGS Name: U 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: PP0809	Get Map
NGS Quad / Sta Num : 44093122/	
USGS Quad: RANDOLPH	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	7	112 N	18 W	443143.00	930057.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1974	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (1994) **Stamping:** U 26 1933

AT RANDOLPH, 650.0 FEET NORTH OF THE RAILROAD STATION, 104.0 FEET WEST OF THE WEST RAIL OF A RAILROAD, RIVER COUNTRY COOPERATIVE BUILDING IS BUILT OVER THE AREA.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	884.769	0.016	269.678	0.005	2/0	1991	00000025
NGVD29	884.670	0.016	269.648	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.800 12B = -94.800 09 = -94.747 03 = -94.623

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7571.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7571.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: UMFARM MN037

NGS Name: UMFARM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5077](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	10	114 N	19 W	444134.17	930431.78		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1991	2020	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** UMFARM 1991

5.7 MILES NORTHEAST OF FARMINGTON, IN EMPIRE TOWNSHIP, 3.0 MILES EAST ALONG 170TH STREET FROM THE JUNCTION OF 170TH STREET AND TRUNK HIGHWAY 3 (THE JUNCTION IS 5.0 MILES NORTH OF FARMINGTON), THEN 0.6 MILE SOUTH ON ANNETTE AVENUE, 19.0 FEET WEST OF ANNETTE AVENUE, 7.0 FEET NORTH OF A FIELD ENTRANCE, 15.0 FEET SOUTHEAST OF A POWER POLE, 6.6 FEET SOUTH OF A WITNESS POST.

Station Notes

DAKOTA COUNTY SURVEY OFFICE FOUND THE MONUMENT TIPPED AND BENT TO THE WEST. THE CAP AND SIGN WERE REMOVED AND IS AVAILABLE FOR VIEWING AT THE DAKOTA COUNTY EMPIRE CAMPUS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.559 12B = -92.552 09 = -92.490 03 = -92.293

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 41 34.17032	93 04 31.78011	562722.003	180624.498	171518.010	55054.457	261.537		2012	GPS2800
NAD83 (2007)	44 41 34.17045	93 04 31.78085	562721.950	180624.511	171517.993	55054.461	261.557		2007	GPS2300
NAD83 (1996)	44 41 34.16999	93 04 31.78079	562721.955	180624.465	171517.995	55054.447	261.610	C	2000	GPS1517
NAD83 (1986)	44 41 34.16440	93 04 31.77433	562722.424	180623.901	171518.138	55054.275		C	1992	C019

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/UMFARM-AC5077-3W-07FEB2020.jpg	W	Feb 7, 2020
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/UMFARM-AC5077-2-07FEB2020.jpg		Feb 7, 2020
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/UMFARM-AC5077-1-07FEB2020.jpg		Feb 7, 2020

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7572.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7572.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: URKY

NGS Name: URKY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ7238](#) [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	28	112 N	19 W	442817.62	930704.63	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 15 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** URKY 2016

2.0 MILES EAST OF NORTHFIELD, 2.55 MILES EASTERLY ALONG TRUNK HIGHWAY 19 FROM TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD, AT TRUNK HIGHWAY 19 MILEPOINT 178.95, 58.5 FEET NORTH OF TRUNK HIGHWAY 19, 47.0 FEET EAST OF AN ENTRANCE, 1.5 FEET SOUTH OF A WITNESS POST.

Station Pair: OINN - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	973.184	0.016	296.627	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -93.619 12B = -93.648 09 = -93.605 03 = -93.458

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/URKY-DQ7238-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/URKY-DQ7238-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/URKY-DQ7238-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106531.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106531.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: USSALT

NGS Name: USSALT

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO4916](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	28	27 N	24 W	444756.47	931724.57	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 65 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2012) **Stamping:** USSALT 2011

IN BURNSVILLE, 1.2 MILES NORTH ALONG INTERSTATE HIGHWAY 35W FROM THE JUNCTION OF INTERSTATE HIGHWAY 35W AND TRUNK HIGHWAY 13 IN BURNSVILLE, AT MILEPOINT 4.0, THEN 0.3 MILE NORTH ON EXIT RAMP (EXIT 4B), THEN 0.1 MILE WEST ON BLACK DOG ROAD, 33.6 FEET NORTH OF BLACK DOG ROAD, 43.5 FEET WEST OF A POWER POLE, 34.5 FEET EAST OF A TRAIL, 1.5 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	714.634	0.016	217.821	0.005	2/1	2023	VSPLIT

Geoid Separations(ft): GEOID18 = -89.186 12B = -89.189 09 = -89.104 03 = -88.930

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 47 56.46848	93 17 24.57046	506881.434	219251.336	154497.770	66827.941	190.641			2014	GPS2981	
NAD83 (1996)	44 47 56.46821	93 17 24.57064	506881.421	219251.308	154497.766	66827.932	190.727	C		2012	HXERX	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/USSALT-DO4916-3N-12JUL2023.jpg	N	Jul 12, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/USSALT-DO4916-2-12JUL2023.jpg		Jul 12, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/USSALT-DO4916-1-12JUL2023.jpg		Jul 12, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_95139.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_95139.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 131

NGS Name: V 131

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0553](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	11	112 N	18 W	443132.69	925733.58	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 8 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** V 131 1934

3.0 MILES EAST OF RANDOLPH, 2.62 MILES EAST ON COUNTY ROAD 88 FROM THE JUNCTION OF COUNTY ROAD 88 AND TRUNK HIGHWAY 56, 0.23 MILE NORTH ON GAYLORD AVENUE, 44.0 FEET SOUTH OF THE SOUTH RAIL OF AN ABANDONED RAILROAD, 41.3 FEET EAST OF GAYLORD AVENUE, 40.0 FEET SOUTHEAST OF A RAILROAD CROSSING POST, 1.3 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	867.607	0.016	264.447	0.005	2/0	1991	00000025
NGVD29	867.505	0.016	264.416	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -95.564 12B = -95.564 09 = -95.508 03 = -95.380

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/V_131-PP0553-3E-06OCT2022.jpg	E	Oct 6, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/V_131-PP0553-2-06OCT2022.jpg		Oct 6, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/V_131-PP0553-1-06OCT2022.jpg		Oct 6, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7573.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7573.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: V 26

NGS Name: V 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0607](#) [Get Map](#)
 NGS Quad / Sta Num : 44093122/
 USGS Quad: RANDOLPH

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	113 N	18 W	443345.00	930011.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE RAILING	BENCH MARK DISK	NGS

Description: (1967) **Stamping:** V 26 1933

3.1 MILES NORTH OF THE RANDOLPH RAILROAD STATION, 145.0 FEET SOUTH OF A RAILROAD MILEPOST SOUTH 30, 11.0 FEET EAST OF THE EAST RAIL OF A RAILROAD, IN THE EAST SIDE OF THE NORTH ABUTMENT OF A RAILROAD CULVERT, 10.0 FEET NORTH OF THE CENTER OF AN ABUTMENT.

Station Notes

THE BRIDGE WAS DESTROYED, THE CONCRETE ABUTMENT IS INTACT WITH NO DISK.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	907.692	0.016	276.665	0.005	2/0	1991	00000025
NGVD29	907.580	0.016	276.631	0.005	2	1935	CUTLER-VERT

Geoid Separations(ft): GEOID18 = -94.813 12B = -94.806 09 = -94.750 03 = -94.613

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7574.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7574.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VALLEY MN037

NGS Name: VALLEY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5078](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	3	114 N	20 W	444301.68	931235.46		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1987	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 7 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	SURVEY DISK	MN-037

Description: (2014) **Stamping:** VALLEY

IN LAKEVILLE, AT A CITY PARK, 0.4 MILE EAST ALONG COUNTY ROAD 46 FROM THE JUNCTION OF COUNTY ROAD 23 (CEDAR AVENUE) AND COUNTY ROAD 46 IN LAKEVILLE, 70.0 FEET SOUTH OF EASTBOUND COUNTY ROAD 46, 40.0 FEET SOUTHEAST OF A MANHOLE COVER, 36.0 FEET SOUTH OF A BIKE PATH, 20.0 FEET NORTH OF THE TOP OF A BERM ALONG A PARK, 3.5 FEET SOUTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.613 12B = -90.613 09 = -90.548 03 = -90.338

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 43 01.67995	93 12 35.45735	527768.565	189412.612	160864.180	57733.080	261.336		2012	GPS2800
NAD83 (2007)	44 43 01.68006	93 12 35.45807	527768.513	189412.623	160864.164	57733.083	261.356		2007	GPS2300
NAD83 (1996)	44 43 01.67991	93 12 35.45834	527768.493	189412.607	160864.159	57733.078	261.392	C	2000	GPS1517
NAD83 (1986)	44 43 01.67395	93 12 35.45978	527768.390	189412.003	160864.127	57732.894		C	1991	H1991

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VALLEY-AC5078-3S-02NOV2022.jpg	S	Nov 2, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VALLEY-AC5078-2-02NOV2022.jpg		Nov 2, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VALLEY-AC5078-1-02NOV2022.jpg		Nov 2, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7575.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7575.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VERM

NGS Name: VERM

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ3486](#) [Get Map](#)
 NGS Quad / Sta Num : 44092434/
 USGS Quad: VERMILLION

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	26	114 N	18 W	443906.72	925646.09		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 1 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 12 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** VERM 2014

1.75 MILES SOUTHEAST OF VERMILLION, 3.2 MILES NORTHEAST ALONG COUNTY ROAD 47 FROM THE JUNCTION OF COUNTY ROAD 47 AND TRUNK HIGHWAY 52 IN HAMPTON, THEN 0.25 MILE EAST ON 205TH STREET EAST, 35.6 FEET NORTH OF 205TH STREET EAST AND 14.0 FEET WEST OF A FIELD ENTRANCE, 5.0 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -94.911 12B = -94.885 09 = -94.826 03 = -94.685

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 39 06.72224	92 56 46.09218	596432.021	165817.877	181792.844	50541.390	244.374		2016	GPS3152
NAD83 (1996)	44 39 06.72211	92 56 46.09254	596431.995	165817.863	181792.836	50541.386	244.438	C	2016	HDAK2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VERM-DQ3486-3N-19OCT2022.jpg	N	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VERM-DQ3486-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VERM-DQ3486-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102051.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102051.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VINERY MN049

NGS Name: VINERY

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3396](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	32	113 N	17 W	443258.43	925259.73	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1987	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 6 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	SURVEY DISK	MN-049

Description: (2014) **Stamping:** VINERY 1987

3.6 MILES NORTH OF CANNON FALLS, 3.65 MILES NORTH ALONG TRUNK HIGHWAY 20 FROM THE JUNCTION OF TRUNK HIGHWAY 20 AND TRUNK HIGHWAY 19 IN CANNON FALLS, AT TRUNK HIGHWAY 20 MILEPOINT 3.65, 0.6 MILE NORTH-NORTHEAST OF THE COUNTY LINE, 57.0 FEET WEST-NORTHWEST OF TRUNK HIGHWAY 20, 325.0 FEET SOUTH OF AN EAST-WEST FENCE, 7.6 FEET WEST OF A WITNESS POST.

Station Pair: KINGS - DAKOTA, MN

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	905.651	0.016	276.043	0.005	2/1	2016	00000879
NGVD29	905.523	0.016	276.004	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -96.463 12B = -96.450 09 = -96.388 03 = -96.266

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 32 58.43203	92 52 59.72840	612994.881	128600.173	186841.214	39197.411	246.644			2016	GPS3148	
NAD83 (2007)	44 32 58.43212	92 52 59.72914	612994.828	128600.181	186841.197	39197.414	246.667			2007	GPS2300	
NAD83 (1996)	44 32 58.43176	92 52 59.72851	612994.874	128600.145	186841.211	39197.403	246.703	C		2016	HTRIER	
NAD83 (1986)	44 32 58.42479	92 52 59.72558	612995.090	128599.441	186841.277	39197.188		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VINERY-PP3396-3W-29SEP2022.jpg	W	Sep 29, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VINERY-PP3396-2-29SEP2022.jpg		Sep 29, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VINERY-PP3396-1-29SEP2022.jpg		Sep 29, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7576.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7576.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VISTA MN037

NGS Name: VISTA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	14	115 N	21 W	444555.23	931814.84		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	DESTROYED	Horz=YES Vert=YES	YES		RECESSED 1 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (1992) **Stamping:** VISTA 1988

IN BURNSVILLE, 0.5 MILE SOUTH OF THE JUNCTION OF COUNTY ROAD 5 AND TRUNK HIGHWAY 13, 30.0 FEET NORTH OF MANOR DRIVE, 3.0 FEET EAST OF A SIDEWALK, 3.5 FEET WEST OF A CURB, 18.5 FEET NORTHEAST OF A FIRE HYDRANT. DISK GONE AND ROD BENT.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.242 12B = -89.242 09 = -89.176 03 = -88.986

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 45 55.22521	93 18 14.83983	503258.396	206971.043	153393.466	63084.900			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VISTA-3W-27OCT2006.jpg	W	Oct 27, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VISTA-2-27OCT2006.jpg		Oct 27, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VISTA-1-12JUL2023.jpg		Jul 12, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7577.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7577.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: VORTAC FGT 1989

NGS Name: VORTAC FGT 1989

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AA9013](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	35	114 N	20 W	443751.00	931055.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
	2022	GOOD	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	NOS

Description: (2011)

Stamping:

1.0 MILE WEST ON 220TH STREET WEST FROM THE JUNCTION OF COUNTY ROAD 31 (DENMARK AVENUE) AND 220TH STREET WEST, WEST DRIVE FROM THE INTERSECTION OF ESSEX AVENUE AND 220TH STREET WEST, STATION VORTAC FGT 1989 IS LOCATED APPROXIMATELY 12000.0 FEET EAST OF THE CENTER OF THE AIRLAKE AIRPORT.

Station Notes

THE STATION IS A VORTAC AND THE POINT INTERSECTED WAS THE CENTER OF THE FACILITY.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.962 12B = -91.968 09 = -91.909 03 = -91.693

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VORTAC_FGT_1989-AA9013-3W-01NOV2022.jpg	W	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/VORTAC_FGT_1989-AA9013-2-01NOV2022.jpg		Nov 1, 2022
Disk:			Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66845.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66845.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: W 26

NGS Name: W 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP0610](#) [Get Map](#)
 NGS Quad / Sta Num : 44092433/
 USGS Quad: CANNON FALLS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	8	113 N	18 W	443640.10	925955.96	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2022	GOOD	Horz=NO Vert=YES	YES		RECESSED 11 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2012) **Stamping:** W 26 1933

AT HAMPTON, 0.3 MILE SOUTHWEST OF THE JUNCTION OF COUNTY ROAD 47 AND TRUNK HIGHWAY 52, THEN 0.1 MILE SOUTH ON MAIN STREET, 127.0 FEET WEST OF MAIN STREET, 86.0 FEET SOUTHEAST OF WATER STREET, 95.0 FEET WEST OF THE WEST CORNER OF A STORAGE BUILDING, 10.0 FEET EAST OF A FENCE, 0.8 FOOT NORTH OF A WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	980.530	0.016	298.866	0.005	2/1	2016	00000879
NGVD29	980.382	0.016	298.821	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -94.508 12B = -94.504 09 = -94.445 03 = -94.288

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/W_26-PP0610-3SW-19OCT2022.jpg	SW	Oct 19, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/W_26-PP0610-2-19OCT2022.jpg		Oct 19, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/W_26-PP0610-1-19OCT2022.jpg		Oct 19, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7579.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7579.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE

NGS Name: WALLACE RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2522](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/1026
 USGS Quad: ST PAUL EAST

	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u> <u>Sec</u> <u>Twp</u> <u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE 18 28 N 22 W	445420.32	930521.70		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	CGS

Description: (1995) **Stamping:** WALLACE 1892 RESET 1963

ON A PROMINENT HILL IN WEST ST. PAUL, AT THE IMPERIAL HEIGHTS APARTMENTS SITE, 51.6 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF 85 IMPERIAL DRIVE, 66.0 FEET SOUTHEAST OF THE EAST CORNER OF 111 IMPERIAL DRIVE, 44.54 FEET WEST OF THE JUNCTION OF A CURB AND SIDEWALK, 3.2 FEET NORTH OF THE OUTSIDE CURB NEAR THE NORTHEAST EDGE OF CIRCLE DRIVE, 51.84 FEET SOUTHWEST OF WALLACE MNDT RM 3, 50.36 FEET NORTH-NORTHEAST OF AN IRON PIN STAMPED 2.

Station Notes
THE DISK WAS TURNED IN TO THE OFFICE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.115 12B = -90.115 09 = -90.069 03 = -89.882

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 54 20.32216	93 05 21.69809	558899.237	258209.388	170352.828	78702.379			C	1999	GPS1211	
NAD83 (1986)	44 54 20.31522	93 05 21.69447	558899.501	258208.687	170352.909	78702.165			1	1986	17289	
NAD27	44 54 20.43709	93 05 20.91098							1	1933	01323	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_RESET-PP2522-3N-27NOV2006.jpg	N	Nov 27, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_RESET-PP2522-2-27NOV2006.jpg		Nov 27, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_RESET-PP2522-1-27NOV2006.jpg		Nov 27, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7580.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7580.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE ECC

NGS Name: WALLACE ECC 10744

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2505](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/1026
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	18	28 N	22 W	445418.84	930514.63		C	1963	2023	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	NGS

Description: (2006) **Stamping:** WALLACE ECC 1963

IN WEST ST. PAUL, 200.0 FEET WEST ALONG EMERSON STREET FROM THE JUNCTION OF EMERSON STREET AND ROBERT STREET THEN CONTINUE WEST ON IMPERIAL DRIVE FOR 0.3 MILE THEN 50.0 FEET SOUTH ON IMPERIAL RIDGE, ON THE TOP OF THE NORTHEAST CORNER OF THE RESERVOIR, 530.21 FEET EAST-SOUTHEAST OF STATION WALLACE, 38.5 FEET NORTHWEST OF CENTER OF STEEL VALVE COVER, 37.5 FEET SOUTHWEST OF CENTER OF A STEEL VALVE COVER, 51.7 FEET SOUTHWEST OF THE SOUTHEAST CORNER OF 5.0 FEET SQUARE CONCRETE SHAFT, 52.6 FEET NORTHEAST OF A 2.0 FOOT DIAMETER ELBOW AIR VENT, 56.6 FEET SOUTHEAST OF THE SOUTHWEST CORNER OF A 5.0 FEET SQUARE CONCRETE SHAFT. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.134 12B = -90.134 09 = -90.085 03 = -89.898

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 54 18.84107	93 05 14.63141	559408.300	258060.808	170507.991	78657.092	309.886			2012	GPS2800	
NAD83 (2007)	44 54 18.84086	93 05 14.63219	559408.244	258060.787	170507.974	78657.085	309.908			2007	GPS2300	
NAD83 (1996)	44 54 18.84071	93 05 14.63165	559408.284	258060.773	170507.986	78657.081	309.960	C		1999	GPS1211	
NAD83 (1986)	44 54 18.83382	93 05 14.62825	559408.530	258060.075	170508.061	78656.868			2	1986	17289	
NAD27	44 54 18.95550	93 05 13.84500							2	1965	13600	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_ECC_10744-PP2505-3N-12OCT2011.jpg	N	Oct 12, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_ECC_10744-PP2505-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_ECC_10744-PP2505-1-12OCT2011.jpg		Oct 12, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7581.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7581.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT

NGS Name: WALLACE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI4941](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	28 N	22 W	445420.00	930521.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	1963	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRIANGULATION STATION DISK	NGS

Description: **Stamping:** WALLACE 1892

ON A HIGH AND PROMINENT POINT IN WEST ST. PAUL, ABOUT ONE-FOURTH 'MILE WEST OF SOUTH ROBERTS STREET, ON LAND OWNED AND OCCUPIED BY GEORGE MALON, ON THE HIGHEST PART OF A HILL BEHIND A HOUSE, AND IN A TRUCK-GARDEN PLOT. TO REACH FROM INTERSECTION OF DOBB ROAD AND CHARLTON STREET, GO OUT 0.1 MILE ON CHARLTON STREET TO A ROAD LEADING EAST, GO EAST 0.25 MILE TO THE T-INTERSECTION, AND THEN GO TO RIGHT 1.0 BLOCK TO END OF A STREET. SURFACE AND UNDERGROUND MARKS ARE STANDARD STATION DISKS IN CONCRETE, ESTABLISHED IN 1931 IN IDENTICAL POSITION OF ORIGINAL MARK. UPPER MARK IS FLUSH WITH SURFACE OF GROUND. REFERENCE MARK IS STANDARD REFERENCE DISK IN CONCRETE, 'PROJECTING 6.0 INCH DIAMETER ABOVE GROUND 1.0 FOOT SOUTH OF A FENCE AT SOUTH END OF TRUCK GARDEN, 56.0 FEET EAST OF THE WEST SIDE OF A GARDEN, 7.0 FEET SOUTH OF A ROAD ALONG THE SOUTH END OF A GARDEN, AND 170.4 FEET FROM THE STATION. BEARINGS FROM STATION TO FOLLOWING OBJECTS, DISTANT 3.0 MILES ARE--ST. PAUL CATHEDRAL, CROSS ON DOME. STATE CAPITOL, GOLD BALL ON DOME. CITY HALL, VANE, N 04 DEG 06 MIN W. AND FIRST NATIONAL BANK, PEAK OF A STEEL SIGN SCAFFOLD, DISTANT 2.0 MILES.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.118 12B = -90.118 09 = -90.069 03 = -89.885

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66713.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66713.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT AZ MK

NGS Name: WALLACE AZ MK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI4947](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	19	28 N	22 W	445422.00	930525.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	1959	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	NGS

Description: (2007) **Stamping:** WALLACE 1931

0.5 MILE NORTH OF THE STATION, ABOUT 250.0 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SIBLEY HIGH SCHOOL, 82.0 FEET NORTHWEST OF THE NORTHWEST FENCE CORNER POST OF THE SIBLEY HIGH SCHOOL ATHLETIC FIELD, 40.0 FEET NORTH OF THE INTERSECTION OF BUTLER AVENUE AND BIDWELL STREET AND 18.8 FEET NORTHEAST OF A POWER POLE NUMBER 1052.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.105 12B = -90.105 09 = -90.059 03 = -89.872

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66914.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66914.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT AZ MK RESET

NGS Name: WALLACE AZ MK RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI4948](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	19	28 N	22 W	445423.00	930522.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	1963	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BLANK	AZIMUTH MARK DISK	NGS

Description: **Stamping:** WALLACE 1892 1931 RESET 1959

0.5 MILE NORTH OF THE STATION, ABOUT 250.0 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SIBLEY HIGH SCHOOL, 82.0 FEET NORTHWEST OF THE NORTHWEST FENCE CORNER POST OF THE SIBLEY HIGH SCHOOL ATHLETIC FIELD, 40.0 FEET NORTH OF THE INTERSECTION OF BUTLER AVENUE AND BIDWELL STREET AND 18.8 FEET NORTHEAST OF A POWER POLE NUMBER 1052.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.111 12B = -90.111 09 = -90.062 03 = -89.878

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_97695.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_97695.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT RM 1

NGS Name: WALLACE RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI4949](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	28 N	22 W	445418.64	930521.62		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1931	1963	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: **Stamping:** WALLACE NO 1 1931

IS 6.0 FEET SOUTH OF THE SOUTH EDGE OF AN UNNAMED ROAD THAT IS UNDER CONSTRUCTION, AND ON THE SOUTH BISANZ PROPERTY LINE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.118 12B = -90.115 09 = -90.069 03 = -89.882

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66714.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66714.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT RM 2

NGS Name: WALLACE RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI4950](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	28 N	22 W	445418.67	930518.03		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	1963	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	NGS

Description: **Stamping:** WALLACE NO 2 1934
 IS 94.2 FEET WEST OF THE APPROXIMATE CENTER OF STRYKER AVENUE, AND ON THE SOUTH BISANZ PROPERTY LINE.

Station Notes
 1985 RECOVERY NOTE: IRON PIN STAMPED 2 TEMP DESTROYED BY CONSTRUCTION.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.124 12B = -90.124 09 = -90.079 03 = -89.892

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66719.pdf
 Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66719.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT RM 3

NGS Name: WALLACE RM 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AE8736](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	28 N	22 W	445420.29	930521.06	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE/BITUMINOUS SLAB	REFERENCE MARK DISK	NGS

Description: (2011) **Stamping:** WALLACE NO 3 1892 1963

ON A PROMINENT HILL IN WEST ST. PAUL, AT IMPERIAL HEIGHTS APARTMENT SITE, 18.0 FEET WEST OF THE EDGE OF A SIDEWALK OF 85 IMPERIAL DRIVE, 17.4 FEET EAST OF THE SOUTHWEST CORNER OF A BUILDING, THE MONUMENT IS AN APARTMENT PATIO, SET IN A DRILL HOLE IN THE CONCRETE PATIO, 6.0 FEET SOUTH OF THE SOUTH FACE OF THE APARTMENT AND 1.0 FOOT NORTH OF THE EDGE OF THE PATIO.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1098.288	0.016	334.759	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.118 12B = -90.118 09 = -90.069 03 = -89.885

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_RM_3-AE8736-3N-08AUG2023.jpg	N	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_RM_3-AE8736-2-08AUG2023.jpg		Aug 8, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALLACE_RM_3-AE8736-1-12OCT2011.jpg		Oct 12, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64118.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64118.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT RM 4

NGS Name: WALLACE RM 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI4951](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	28 N	22 W	445419.73	930521.89		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	1985	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: **Stamping:** WALLACE NO 4 1892 1963

IS SET IN A DRILL HOLE IN A CONCRETE CURB TO THE SOUTH-SOUTHEAST OF THE STATION, 40.0 FEET SOUTH OF THE CENTERLINE OF AN EAST-WEST STREET AND TO THE SOUTHEAST OF THE CIRCLE DRIVE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.118 12B = -90.118 09 = -90.069 03 = -89.885

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66722.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66722.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALLACE MNDT RM 5

NGS Name: WALLACE RM 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AI4996](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	18	28 N	22 W	445420.00	930521.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1985	2011	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
BRIDGE CURB	REFERENCE MARK DISK	MNDT

Description: **Stamping:** WALLACE NO 5 1982 1985

IT IS SET FLUSH IN A DRILL HOLE IN THE SOUTH CONCRETE CURB FOR IMPERIAL DRIVE. THE STATION IS 30.0 FEET SOUTH OF THE CENTERLINE OF IMPERIAL DRIVE, 11.0 FEET SOUTHEAST OF THE CENTERLINE OF A DRIVE, AND 25.2 FEET SOUTHWEST OF A FIRE HYDRANT.

Station Notes

THE ROAD, CURB AND GUTTER HAVE BEEN REDONE SINCE 1982. WALLACE MNDT RM 5 WAS DESTROYED, 1 PHOTO OF WALLACE MNDT RM 5 WAS TAKEN, SHOWS WHAT IS LEFT OF A STEM IN THE CURB.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.118 12B = -90.118 09 = -90.069 03 = -89.885

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_67960.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_67960.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WALSER

NGS Name: WALSER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP7404](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	27	28 N	22 W	445238.05	930154.38	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 29 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** WALSER 2014

IN SOUTH ST. PAUL, 0.05 MILE NORTH-NORTHWEST ALONG TRUNK HIGHWAY 156 FROM THE JUNCTION OF TRUNK HIGHWAY 156/COUNTY ROAD 56 AND INTERSTATE HIGHWAY 494 IN SOUTH ST. PAUL, AT TRUNK HIGHWAY 156 MILEPOINT 0.05, 116.7 FEET WEST OF TRUNK HIGHWAY 156 BACK OF A CURB, 73.1 FEET NORTH-NORTHEAST OF WESTBOUND INTERSTATE HIGHWAY 494 ENTRANCE RAMP FROM TRUNK HIGHWAY 156 FOG LINE, 3.6 FEET SOUTHEAST OF A RIGHT-OF-WAY FENCE, 3.0 FEET SOUTHEAST OF A WITNESS POST.

Station Pair: 1985 AU 1 - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	720.848	0.016	219.715	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.876 12B = -90.886 09 = -90.810 03 = -90.633

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 52 38.05376	93 01 54.38408	573857.343	247898.478	174912.068	75559.607	192.004			2015	GPS3085	
NAD83 (1996)	44 52 38.05359	93 01 54.38437	573857.322	247898.460	174912.062	75559.602	192.078	C		2015	HDTA	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALSER-DP7404-3N-09AUG2023.jpg	N	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALSER-DP7404-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WALSER-DP7404-1-15JUL2014.jpg		Jul 15, 2014

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_101807.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_101807.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WATER

NGS Name: WATER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP8578](#) [Get Map](#)
 NGS Quad / Sta Num : 44093123/
 USGS Quad: CASTLE ROCK

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	18	112 N	19 W	443034.21	930844.74	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2015	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 32 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2015) **Stamping:** WATER 2015

4.0 MILES NORTH OF NORTHFIELD, 3.8 MILES NORTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 19 EAST IN NORTHFIELD, AT TRUNK HIGHWAY 3 MILEPOINT 16.85, 54.0 FEET WEST OF TRUNK HIGHWAY 3, 19.0 FEET SOUTH OF A FIELD ENTRANCE, 1.5 FEET NORTH OF A WITNESS POST.

Station Pair: 1920 Q - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.388	0.016	280.230	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -93.199 12B = -93.225 09 = -93.172 03 = -93.015

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 30 34.20578	93 08 44.73751	544588.148	113739.722	165990.799	34667.937	251.850	2015	C	2015	GPS3101	
NAD83 (1996)	44 30 34.20576	93 08 44.73787	544588.121	113739.719	165990.791	34667.936	251.917	2015	C	2015	HFARM2	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WATER-DP8578-3W-25OCT2022.jpg	W	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WATER-DP8578-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WATER-DP8578-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_103197.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_103197.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WELLS

NGS Name: WELLS

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DQ7235](#) [Get Map](#)
 NGS Quad / Sta Num : 44093211/
 USGS Quad: DENNISON

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	25	112 N	19 W	442819.70	930317.04	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2016	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 27 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2016) **Stamping:** WELLS 2016

5.5 MILES EAST OF NORTHFIELD, 5.7 MILES EASTERLY ALONG TRUNK HIGHWAY 19 FROM THE JUNCTION OF TRUNK HIGHWAY 19 AND TRUNK HIGHWAY 3 IN NORTHFIELD, AT TRUNK HIGHWAY 19 MILEPOINT 182.10, 48.5 FEET NORTH OF TRUNK HIGHWAY 19, 41.5 FEET WEST OF DRIVEWAY NUMBER 2475.

Station Pair: SCIOT - DAKOTA, MN

Station Notes

DO NOT RESET WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	924.257	0.016	281.714	0.005	2/1	2019	00000938

Geoid Separations(ft): GEOID18 = -94.432 12B = -94.436 09 = -94.406 03 = -94.278

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WELLS-DQ7235-3N-25OCT2022.jpg	N	Oct 25, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WELLS-DQ7235-2-25OCT2022.jpg		Oct 25, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WELLS-DQ7235-1-25OCT2022.jpg		Oct 25, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_106533.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_106533.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WILLE 2

NGS Name: WILLE 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	27 N	22 W	445101.53	930525.95		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1976	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 2 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** WILLE 2 1976

4.0 MILES SOUTHWEST OF SOUTH ST. PAUL, 2.2 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND INTERSTATE HIGHWAY 494 IN INVER GROVE HEIGHTS, THEN 0.25 MILE WEST ON COUNTY ROAD 26 (70TH STREET), THEN NORTHWEST THROUGH A FARMYARD OF HOUSE NUMBER 1165 AND ALONG A FIELD ROAD TO THE TOP OF A HILL ALONG THE WEST EDGE OF A PASTURE, INSIDE THE EAST EDGE OF A WOODED AREA, 20.5 FEET WEST OF STATION WILLE MNDT, 20.0 FEET WEST OF A WITNESS POST (WILLE), 3.0 FEET NORTH OF A WITNESS POST. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.462 12B = -90.476 09 = -90.410 03 = -90.220

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_2-3N-08NOV2011.jpg	N	Nov 8, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_2-2-08NOV2011.jpg		Nov 8, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_2-1-08NOV2011.jpg		Nov 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64134.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64134.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WILLE 2 RM 1

NGS Name: WILLE 2 RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u> Horz=NO Vert=NO	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
SE	6	27 N	22 W	445101.96	930507.84			1976	2011	DESTROYED		YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2012) **Stamping:** WILLE 2 NO 1 1976

4.0 MILES SOUTHWEST OF SOUTH ST. PAUL, 2.0 MILES SOUTH ALONG TRUNK HIGHWAY 3 (SOUTH ROBERT TRAIL) FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND INTERSTATE HIGHWAY 494 IN INVER GROVE HEIGHTS. 0.2 MILE NORTH ALONG TRUNK HIGHWAY 3 (SOUTH ROBERT TRAIL) FROM THE JUNCTION WITH COUNTY ROAD 26 (LONE OAK ROAD / 70TH STREET) IN INVER GROVE HEIGHTS, 42.0 FEET SOUTH OF DRIVE TO NUMBER 6815, 28.0 FEET WEST OF A POWER POLE NUMBER M51F14, 3.8 FEET WEST-NORTHWEST OF A WITNESS POST.

Station Notes

SAME POSITION AS WILLE MNDT RM 1. A BIG HOLE IS DUG 3.8 FEET WEST OF A WITNESS POST. (ASSUMED DESTROYED)

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.512 12B = -90.521 09 = -90.459 03 = -90.269

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_2_RM_1-3W-29NOV2006.jpg	W	Nov 29, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_2_RM_1-2-29NOV2006.jpg		Nov 29, 2006
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_2_RM_1-1-29NOV2006.jpg		Nov 29, 2006

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_64133.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_64133.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WILLE MNDT

NGS Name: WILLE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2528](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1096
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	6	27 N	22 W	445101.54	930525.64		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	GOOD	Horz=NO Vert=YES	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	TRAVERSE STATION DISK	MNDT

Description: (2011) **Stamping:** WILLE 1963

4.0 MILES SOUTHWEST OF SOUTH ST. PAUL, 2.2 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND INTERSTATE HIGHWAY 494 THEN 0.25 MILE WEST ON COUNTY ROAD 26 THEN NORTH AND NORTHWEST THROUGH FARMYARD OF HOUSE NUMBER 1165, AND ALONG FIELD ROAD TO THE TOP OF A HILL, 5.0 FEET NORTH-NORTHEAST OF A WITNESS POST, ON THE EAST EDGE OF A WOODED AREA, ON THE WEST EDGE OF A PASTURE, 20.5 FEET EAST OF STATION WILLIE 2, 4.0 FEET NORTH OF A WITNESS POST. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.466 12B = -90.476 09 = -90.410 03 = -90.223

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 51 01.54008	93 05 25.63744	558671.622	238075.777	170283.451	72565.642	277.103	2	1999	17648		
NAD83 (1986)	44 51 01.53289	93 05 25.63430	558671.851	238075.050	170283.521	72565.420		2	1986	17289		
NAD27	44 51 01.65644	93 05 24.85160						2	1965	13600		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE-PP2528-3N-08NOV2011.jpg	N	Nov 8, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE-PP2528-2-08NOV2011.jpg		Nov 8, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE-PP2528-1-08NOV2011.jpg		Nov 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7583.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7583.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WILLE MNDT AZ MK

NGS Name: WILLE AZ MK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1302](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1096
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	1	27 N	23 W	445142.64	930712.21	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	AZIMUTH MARK DISK	MNDT

Description: (1997) **Stamping:** WILLIE 1963

4.0 MILES WEST-SOUTHWEST OF SOUTH ST. PAUL, 3.6 FEET EAST-NORTHEAST OF A WITNESS POST, 40.0 FEET WEST OF A POWER POLE, 23.5 FEET SOUTH OF A ROAD, 39.6 FEET EAST OF A STEEL CORNER POST, 2.6 FEET NORTH OF AN EAST-WEST FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	919.365	0.016	280.223	0.005	2/0	1991	00000025
NGVD29	919.181	0.016	280.167	0.005	2	1978	L24283

Geoid Separations(ft): GEOID18 = -90.124 12B = -90.131 09 = -90.056 03 = -89.882

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 51 42.63533	93 07 12.20604	550983.740	242217.991	167940.180	73828.191	252.829	2	1999	17648		
NAD83 (1986)	44 51 42.62830	93 07 12.20241	550984.003	242217.279	167940.260	73827.974		2	1986	17289		
NAD27	44 51 42.75302	93 07 11.41545						2	1965	13600		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7584.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7584.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WILLE MNDT RM 1

NGS Name: WILLE RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2531](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1096
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	6	27 N	22 W	445101.98	930507.82		2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	MNDT

Description: (2002) **Stamping:** WILLE NO 1 1963

4.0 MILES SOUTHWEST OF SOUTH ST. PAUL, 3.8 FEET SOUTHEAST OF A WITNESS POST, 29.8 FEET WEST OF TRUNK HIGHWAY 3, 24.1 FEET NORTH OF A POWER POLE, 10.0 FEET SOUTH OF A FIELD ENTRANCE, 98.0 FEET NORTH OF COUNTY ROAD 26 (LONE OAK ROAD), THE STATION WAS FOUND IN GOOD CONDITION ON MAY 14, 1996-A NEW DRIVEWAY IS BEING CONSTRUCTED IN THE AREA OF THE STATION AND A FIELD ENTRANCE.

Station Notes
SAME POSITION AS WILLE 2 RM 1.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.512 12B = -90.521 09 = -90.459 03 = -90.269

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 51 01.97873	93 05 07.81549	559955.494	238123.810	170674.776	72580.282	247.689	2	1999	17648		
NAD83 (1986)	44 51 01.97149	93 05 07.81237	559955.721	238123.077	170674.845	72580.059		2	1986	17289		
NAD27	44 51 02.09465	93 05 07.03032						2	1965	13600		

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7585.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7585.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WILLE MNDT RM 2

NGS Name: WILLE RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2526](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/1096
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	7	27 N	22 W	445051.96	930522.86	2	2

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1963	2023	DESTROYED	Horz=NO Vert=YES	YES		RECESSED 3 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** WILLE NO 2 1963

IN INVER GROVE HEIGHTS, 2.2 MILES SOUTH ALONG TRUNK HIGHWAY 3 FROM THE JUNCTION OF TRUNK HIGHWAY 3 AND INTERSTATE HIGHWAY 494, THEN 0.25 MILE WEST ON COUNTY ROAD 26, 50.5 FEET WEST OF DRIVEWAYS NUMBER 1180-1234, 7.5 FEET SOUTHEAST OF A WITNESS POST, 46.5 FEET SOUTH OF COUNTY ROAD 26 (70TH STREET), 50.5 FEET WEST OF A DRIVE, 22.0 FEET WEST-NORTHWEST OF A POWER POLE, 97.2 FEET SOUTHWEST OF A POWER POLE, 115.5 FEET SOUTHEAST OF A POWER POLE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	979.286	0.016	298.487	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.495 12B = -90.505 09 = -90.439 03 = -90.252

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 50 51.95438	93 05 22.85949	558874.468	237105.492	170345.279	72269.899	270.994	2	1999	17648		
NAD83 (1986)	44 50 51.94720	93 05 22.85640	558874.693	237104.766	170345.347	72269.677		2	1986	17289		
NAD27	44 50 52.06964	93 05 22.07343						2	1965	13600		

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_RM_2-PP2526-3W-08AUG2023.jpg	W	Aug 8, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_RM_2-PP2526-2-08NOV2011.jpg		Nov 8, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WILLE_RM_2-PP2526-1-08NOV2011.jpg		Nov 8, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7586.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7586.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WIN

NGS Name: WIN

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP6192](#) [Get Map](#)
NGS Quad / Sta Num : 44093131/
USGS Quad: ORCHARD LAKE

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	36	114 N	21 W	443836.34	931748.50	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2014	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 14 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2014) **Stamping:** WIN 2014

IN LAKEVILLE, 2.6 MILES SOUTH ALONG SOUTHBOUND INTERSTATE HIGHWAY 35 FROM THE JUNCTION OF INTERSTATE HIGHWAY 35 AND COUNTY ROAD 60 (185TH STREET WEST) IN LAKEVILLE, AT INTERSTATE HIGHWAY 35 MILEPOINT 81.75, 49.4 FEET WEST OF A SOUTHBOUND INTERSTATE HIGHWAY 35 FOG LINE, 0.1 MILE SOUTH OF COUNTY ROAD 70, 58.7 FEET EAST-SOUTHEAST OF THE OFF RAMP FROM SOUTHBOUND INTERSTATE HIGHWAY 35 TO COUNTY ROAD 70, 53.7 FEET NORTH OF LIGHT POLE NUMBER B27P-18, 1.5 FEET EAST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical</u> <u>Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey</u> <u>Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1098.813	0.016	334.919	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -90.325 12B = -90.331 09 = -90.282 03 = -90.072

Geodetic Position and Dakota County Coordinates

<u>Datum and</u> <u>Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid</u> <u>Hgt (m)</u>	<u>Surv</u> <u>Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 38 36.34292	93 17 48.50411	505169.411	162522.394	153975.944	49536.925	307.398	2015	GPS3054			
NAD83 (1996)	44 38 36.34280	93 17 48.50417	505169.407	162522.382	153975.943	49536.921	307.461	2014	HBUCK			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WIN-DP6192-3W-03NOV2022.jpg	W	Nov 3, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WIN-DP6192-2-03NOV2022.jpg		Nov 3, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WIN-DP6192-1-03NOV2022.jpg		Nov 3, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_102076.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_102076.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WINE MNDT

NGS Name: WINE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3475](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	9	114 N	17 W	444208.16	925132.67	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		RECESSED 4 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2010) **Stamping:** WINE 1988

IN HASTINGS, 1.25 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 AT HASTINGS TO TRUNK HIGHWAY 61 MILEPOINT 114.5, THENCE WEST 0.3 MILE ON 170TH STREET, 19.0 FEET SOUTH OF 170TH STREET, MIDDLE OF A FIELD ENTRANCE, 29.65 FEET NORTHWEST OF WINE MNDT RM 1, 38.07 FEET NORTHEAST OF WINE MNDT RM 2, 31.0 FEET WEST-NORTHWEST OF A WITNESS POST, 38.4 FEET EAST-NORTHEAST OF A WITNESS POST, 9.2 FEET NORTHWEST OF DAKOTA COUNTY WITNESS POST.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	828.542	0.016	252.540	0.005	2/1	1995	00000136
NGVD29	828.374	0.016	252.489	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.735 12B = -95.712 09 = -95.672 03 = -95.515

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 42 08.16111	92 51 32.66682	618986.965	184308.439	188667.604	56177.325	223.379			2012	GPS2800	
NAD83 (2007)	44 42 08.16128	92 51 32.66760	618986.909	184308.456	188667.587	56177.330	223.395			2007	GPS2300	
NAD83 (1996)	44 42 08.16100	92 51 32.66714	618986.942	184308.428	188667.597	56177.321	223.453	C		2000	GPS1517	
NAD83 (1986)	44 42 08.15183	92 51 32.66531	618987.079	184307.499	188667.639	56177.038		C		1989	HCANN	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE-PP3475-3S-02FEB2010.jpg	S	Feb 2, 2010
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE-PP3475-2-20NOV2003.jpg		Nov 20, 2003
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE-PP3475-1-20NOV2003.jpg		Nov 20, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7587.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7587.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WINE MNDT RESET

NGS Name: WINE RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1594](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	114 N	17 W	444208.16	925132.67	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 8 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 20 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** WINE 1988 2011

1.25 MILES SOUTH OF HASTINGS, 1.25 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS TO TRUNK HIGHWAY 61 MILEPOINT 114.5, THEN WEST 0.3 MILE ON 170TH STREET, 19.0 FEET SOUTH OF 170TH STREET, MIDDLE OF A FIELD ENTRANCE, 29.65 FEET NORTHWEST OF WINE MNDT RM 1 RESET, 38.07 FEET NORTHEAST OF WINE MNDT RM 2 RESET.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	828.417	0.016	252.502	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.735 12B = -95.712 09 = -95.672 03 = -95.515

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RESET-DO1594-3S-28SEP2022.jpg	S	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RESET-DO1594-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RESET-DO1594-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93838.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93838.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WINE MNDT RM 1

NGS Name: WINE RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3474](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	9	114 N	17 W	444208.03	925132.30	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	REFERENCE MARK DISK	MNDT

Description: (1988) **Stamping:** WINE NO 1 1988

1.25 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 AT HASTINGS THEN WEST 0.3 MILE ON 170TH STREET, 32.0 FEET SOUTH OF 170TH STREET, 30.0 FEET EAST OF A FIELD ENTRANCE, 1.4 FEET WEST OF A WITNESS POST.

Station Notes

THE CAP WAS FOUND LOOSE, AND THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	827.551	0.016	252.238	0.005	2/1	1995	00000136
NGVD29	827.384	0.016	252.187	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.738 12B = -95.715 09 = -95.672 03 = -95.518

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_1-PP3474-3N-20NOV2003.jpg	N	Nov 20, 2003
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_1-PP3474-2-20NOV2003.jpg		Nov 20, 2003
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_1-PP3474-1-20NOV2003.jpg		Nov 20, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7588.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7588.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WINE MNDT RM 1 RESET

NGS Name: WINE RM 1 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1593](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	114 N	17 W	444208.03	925132.30	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** WINE NO 1 1988 2011

1.25 MILES SOUTH OF HASTING, 1.25 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS TO TRUNK HIGHWAY 61 MILEPOINT 114.5, THEN WEST 0.3 MILE ON 170TH STREET, 32.0 FEET SOUTH OF 170TH STREET, 30.0 FEET EAST OF A FIELD ENTRANCE, 29.65 FEET SOUTHEAST OF WINE MNDT RESET, 1.4 FEET WEST OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	827.403	0.016	252.193	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.738 12B = -95.715 09 = -95.672 03 = -95.518

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_1_RESET-DO1593-3S-28SEP2022.jpg	S	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_1_RESET-DO1593-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_1_RESET-DO1593-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93839.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93839.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WINE MNDT RM 2

NGS Name: WINE RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP3476](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	114 N	17 W	444208.03	925133.16	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2011	DESTROYED	Horz=NO Vert=NO	YES		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	REFERENCE MARK DISK	MNDT

Description: (1988) **Stamping:** WINE NO 2 1988

1.25 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 AT HASTINGS THEN 0.3 MILE WEST ON 170TH STREET, 33.0 FEET SOUTH OF 170TH STREET, 32.2 FEET WEST OF A FIELD ENTRANCE, 78.4 FEET SOUTHEAST OF A POWER POLE NUMBER 3951, 1.2 FEET NORTH OF A WITNESS POST.

Station Notes

THE CAP WAS FOUND LOOSE, AND THE DISK WAS TURNED INTO THE OFFICE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	827.636	0.016	252.264	0.005	2/1	1995	00000136
NGVD29	827.469	0.016	252.213	0.005	2/1	1988	VHAMP

Geoid Separations(ft): GEOID18 = -95.735 12B = -95.712 09 = -95.669 03 = -95.512

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_2-PP3476-3N-20NOV2003.jpg	N	Nov 20, 2003
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_2-PP3476-2-20NOV2003.jpg		Nov 20, 2003
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_2-PP3476-1-20NOV2003.jpg		Nov 20, 2003

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7589.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7589.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WINE MNDT RM 2 RESET

NGS Name: WINE RM 2 RESET

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DO1595](#) [Get Map](#)
 NGS Quad / Sta Num : 44092431/
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	9	114 N	17 W	444208.03	925133.16	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2011	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 23 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2011) **Stamping:** WINE NO 2 1988 2011

1.25 MILES SOUTH OF HASTINGS, 1.25 MILES SOUTH ALONG TRUNK HIGHWAY 61 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 316 IN HASTINGS TO TRUNK HIGHWAY 61 MILEPOINT 114.5, THEN 0.3 MILE WEST ON 170TH STREET, 33.0 FEET SOUTH OF 170TH STREET, 32.2 FEET WEST OF A FIELD ENTRANCE, 78.4 FEET SOUTHEAST OF A POWER POLE NUMBER 3951, 38.07 FEET SOUTHWEST OF WINE MNDT RESET, 3.0 FEET SOUTH OF A WITNESS POST.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	827.485	0.016	252.218	0.005	2/1	2016	00000879

Geoid Separations(ft): GEOID18 = -95.735 12B = -95.712 09 = -95.669 03 = -95.512

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_2_RESET-DO1595-3S-28SEP2022.jpg	S	Sep 28, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_2_RESET-DO1595-2-28SEP2022.jpg		Sep 28, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WINE_RM_2_RESET-DO1595-1-28SEP2022.jpg		Sep 28, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_93843.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_93843.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WOLK MN037

NGS Name: WOLK

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5079](#) [Get Map](#)
 NGS Quad / Sta Num : 44093142/
 USGS Quad: BLOOMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NE	19	115 N	20 W	444515.56	931541.24	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		PROJECTS 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 10 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** WOLK 1988

AT BURNSVILLE, 0.1 MILE NORTH OF THE JUNCTION OF COUNTY ROAD 11 AND INTERSTATE HIGHWAY 35E, THEN 0.3 MILE WEST ON 134TH STREET, THEN 0.65 MILE SOUTH ON PARKWOOD DRIVE, ACROSS FROM AN ENTRANCE TO WOLF PARK, 165.0 FEET WEST OF THE JUNCTION OF PARKWOOD DRIVE AND FELLOWSHIP LANE, 89.3 FEET WEST OF A STEEL HIGH TENSION POLE, 43.0 FEET NORTH OF AN INTERSTATE HIGHWAY 35E RIGHT-OF-WAY FENCE, 19.0 FEET SOUTH OF THE SOUTH CURB ON PARKWOOD DRIVE, 1.9 FEET NORTH OF A WITNESS POST.

Station Notes

THE DISK HAS BEEN HIT WITH A MOWER ON THE EDGE OF THE DISK AND IT APPEARS GOOD AND SOLID.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	1069.266	0.016	325.913	0.005	2/1	2020	00000955
NGVD29	1069.096	0.016	325.861	0.005	2/1	1990	VMETRO

Geoid Separations(ft): GEOID18 = -89.659 12B = -89.652 09 = -89.606 03 = -89.409

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 45 15.55983	93 15 41.24246	514343.474	202958.393	156772.205	61861.842	298.609			2015	GPS3085	
NAD83 (2007)	44 45 15.55971	93 15 41.24311	514343.428	202958.380	156772.190	61861.838	298.614			2007	GPS2300	
NAD83 (1996)	44 45 15.55987	93 15 41.24129	514343.559	202958.397	156772.230	61861.843	298.646	C		2015	HDOTA	
NAD83 (1986)	44 45 15.55195	93 15 41.24025	514343.634	202957.595	156772.253	61861.599		1		1998	GPS927	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WOLK-AC5079-3SW-11JUL2023.jpg	SW	Jul 11, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WOLK-AC5079-2-11JUL2023.jpg		Jul 11, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WOLK-AC5079-1-11JUL2023.jpg		Jul 11, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7590.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7590.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WORTH MN037

NGS Name: WORTH

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC5080](#) [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	20	28 N	22 W	445351.66	930358.61	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=NO Vert=YES	YES		RECESSED 5 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 28 FT)	HORIZONTAL CONTROL DISK	MNDT

Description: (2011) **Stamping:** WORTH 1988

IN WEST ST. PAUL, IN THE SOUTHWEST QUADRANT OF THE JUNCTION OF TRUNK HIGHWAY 52 (LAFAYETTE FREEWAY) AND COUNTY ROAD 8 (WENTWORTH AVENUE), AT TRUNK HIGHWAY 52 MILEPOINT 127.0, 27.0 FEET WEST OF SOUTHBOUND TRUNK HIGHWAY 52, 29.0 FEET SOUTH OF THE SOUTHWEST CORNER OF A SOUTHBOUND TRUNK HIGHWAY 52 BRIDGE OVER WENTWORTH AVENUE, 18.8 FEET SOUTH OF A WITNESS POST. 4.0 FEET PICKET MAY BE NECESSARY FOR GPS.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	951.199	0.016	289.926	0.005	2/1	2013	00000781

Geoid Separations(ft): GEOID18 = -90.364 12B = -90.367 09 = -90.311 03 = -90.128

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 53 51.65952	93 03 58.61337	564888.368	255323.940	172178.319	77822.893	262.388			2012	GPS2800	
NAD83 (2007)	44 53 51.65921	93 03 58.61399	564888.323	255323.908	172178.305	77822.883	262.422			2007	GPS2300	
NAD83 (1996)	44 53 51.65899	93 03 58.61344	564888.363	255323.886	172178.317	77822.876	262.472		C	2012	HXERX	
NAD83 (1986)	44 53 51.65149	93 03 58.60984	564888.624	255323.128	172178.397	77822.645			C	1989	C019	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WORTH-AC5080-3N-09AUG2023.jpg	N	Aug 9, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WORTH-AC5080-2-09AUG2023.jpg		Aug 9, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WORTH-AC5080-1-09AUG2023.jpg		Aug 9, 2023

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7591.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7591.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: WYOO AND WRAH N RADIO MAST

NGS Name: WYOO AND WRAH N RADIO MAST

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2541](#) [Get Map](#)
 NGS Quad / Sta Num : 44093113/
 USGS Quad: ST PAUL SW

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	31	27 N	23 W	444722.01	931253.25		4

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1974	2023	GOOD	Horz=NO Vert=NO	YES			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	RADIO/TV MAST	MNDT

Description: (2007)

Stamping:

IN EAGAN, 1.5 MILES SOUTH OF THE JUNCTION OF TRUNK HIGHWAY 13 AND TRUNK HIGHWAY 36, LIGHT ON TOP OF THE NORTH STEEL FRAME ON A RADIO TOWER.

Station Notes

THERE ARE FOUR TOWERS, THE MOST NORTHERLY ONE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -89.803 12B = -89.803 09 = -89.737 03 = -89.547

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1996)	44 47 22.00918	93 12 53.25010	526450.732	215776.742	160462.504	65768.882	4	1999	17648			
NAD83 (1986)	44 47 22.00300	93 12 53.24738	526450.929	215776.116	160462.564	65768.692	4	1986	17289			
NAD27	44 47 22.12809	93 12 52.45003					4	1979	15198			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/WYOO_AND_WRAH_N_RADIO_MAST-PP2541-3S-20NOV2006.jpg	S	Nov 20, 2006
Monument:			
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7592.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7592.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 1

NGS Name: X 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	18	28 N	22 W	445431.00	930517.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2023	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	CGS

Description: (1934)

Stamping:

AT WEST ST. PAUL, 30.0 FEET EAST OF CENTERLINE OF CHARLTON STREET, ON PROPERTY BELONGING TO LOUIS BRIANT ABOUT 4889.0 FEET SOUTH OF CENTERLINE OF ANNAPOLIS STREET, 1676.5 FEET NORTH OF CENTERLINE OF THOMPSON AVENUE, 381.0 FEET NORTH OF THE SOUTH LINE OF SECTION 18, 299.0 FEET SOUTH OF THE CENTERLINE OF LOGAN AVENUE, 50.6 FEET NORTH OF TRIANGLE STATE TELEPHONE AND TELEGRAPH COMPANY POLE NUMBER 931.

Station Notes

REFERENCE POSITION - WEST OF THE JUNCTION OF STRYKER AVENUE AND MORELAND AVENUE, THE DESCRIPTION PLOTS NEAR 44-54-22N, 93-05-45W.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.115 12B = -90.115 09 = -90.062 03 = -89.878

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79956.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79956.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 2

NGS Name: X 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>	<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
NW	19	28 N	22 W	445356.00	930531.00			1934	2023	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	CGS

Description: (1934)

Stamping:

IN WEST ST. PAUL, 30.0 FEET EAST OF CENTERLINE OF CHARLTON STREET, 1253.0 FEET NORTH OF THE CENTERLINE OF WENTWORTH STREET, 65.5 FEET SOUTH OF THE CENTERLINE OF THOMPSON AVENUE, 1.5 FEET EAST OF A WIRE FENCE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.128 12B = -90.124 09 = -90.082 03 = -89.892

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79955.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79955.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 26

NGS Name: X 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1468](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	114 N	18 W	443919.00	930041.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (1972) **Stamping:** X-26 1933

AT EMPIRE, 600.0 FEET SOUTH OF THE RAILROAD STATION, 6.0 FEET EAST OF THE EAST RAIL OF A RAILROAD, IN THE NORTHWEST CORNER OF A RAILROAD SIGNAL BLOCK FOUNDATION.

Station Notes

NO CONCRETE FOOTING IN THE AREA, THE RAILROAD HAS BEEN REMOVED.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	861.022	0.016	262.440	0.005	2/0	1991	00000025
NGVD29	860.884	0.016	262.398	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.852 12B = -93.845 09 = -93.779 03 = -93.609

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7593.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7593.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 3

NGS Name: X 3

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	29	28 N	22 W	445321.00	930410.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2023	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	NGS

Description: (1934)

Stamping:

AT WEST ST. PAUL, 32.5 FEET WEST OF CENTERLINE OF ROBERTS STREET, ON PROPERTY BELONGING TO WILLIAM KULENKAMP, 2340.0 FEET NORTH OF CENTERLINE OF MENDOTA ROAD, 260.5 FEET SOUTH OF THE WILLIAM KULENKAMP MAILBOX.

Station Notes

THE TIES LAND IN THE MIDDLE OF A SIDEWALK.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.380 12B = -90.387 09 = -90.338 03 = -90.144

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79954.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79954.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 4

NGS Name: X 4

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	29	28 N	22 W	445314.00	930413.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2023	NOT FOUND	Horz=NO Vert=NO	NO		FLUSH	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	NGS

Description: (1937)

Stamping:

AT WEST ST. PAUL, 32.5 FEET EAST OF THE CENTERLINE OF ROBERT STREET, ON PROPERTY BELONGING TO THE SOUTH VIEW COUNTRY CLUB, 577.0 FEET NORTH OF THE CENTERLINE OF MENDOTA ROAD. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) GEODETIC USE.

Station Notes

THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.384 12B = -90.390 09 = -90.344 03 = -90.147

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_79953.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_79953.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 5

NGS Name: X 5

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	33	28 N	22 W	445156.00	930302.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2006	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	NGS

Description: (1934) **Stamping:** X 5 1934

AT SOUTH ST. PAUL, SOUTH OF THE JUNCTION OF CHURCH STREET AND HIGHWAY EXTENDED, WEST OF CITY LIMITS, 2800.0 FEET WEST OF 57TH AVENUE SOUTH, 27.0 FEET SOUTH OF A HIGHWAY EXTENDED, AT THE TOP OF A GRADE.

Station Notes

THE AREA HAS BEEN TOTALLY DEVELOPED INTO COMMERCIAL BUILDINGS.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.751 12B = -90.764 09 = -90.705 03 = -90.508

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7594.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7594.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: X 6

NGS Name: X 6

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44093111/
 USGS Quad: ST PAUL EAST

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SE	28	28 N	22 W	445248.00	930242.00		

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1934	2023	NOT FOUND	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SEE DESCRIPTION	NGS

Description: (2011) **Stamping:** X 6 1934

IN SOUTH ST. PAUL, 1111.0 FEET WEST OF FIFTH AVENUE SOUTH, 21.9 FEET NORTH OF CHURCH STREET, 2.0 FEET NORTH OF THE SOUTH FACE OF A CURB.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -90.702 12B = -90.712 09 = -90.646 03 = -90.459

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7595.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7595.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 12 A

NGS Name: Y 12 A

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AA9014](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	4	113 N	20 W	443749.04	931400.52	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2011	GOOD	Horz=NO Vert=NO	YES		RECESSED 2 IN.	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	NOS

Description: (2005) **Stamping:** Y 12 A 1989

2.0 MILES SOUTHEAST OF LAKEVILLE, AT AIRLAKE AIRPORT, AT THE NORTHWEST END OF A FIELD NORTHEAST OF A NORTHWEST SET OF VASI AT END OF RUNWAY 11 AND SOUTH OF PARALLEL TAXIWAY, 35.7 FEET NORTHEAST OF NORTHWEST LEG OF THE NORTH VASI OF THE NORTHWEST SET, ON LINE WITH WEST EDGE OF VASI, 103.3 FEET NORTHEAST OF NORTHEAST EDGE OF A RUNWAY, 159.6 FEET SOUTHWEST OF PARALLEL TAXIWAY, STATION Y 12 A IS A NATIONAL OCEAN SERVICE (PHOTOGRAMMETRIC SECTION) DISK IN A CONCRETE MONUMENT.

Station Notes

CONTACT THE AIRPORT MANAGER BEFORE USE. THE SURVEY MARK IS ON AIRPORT PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	955.776	0.016	291.321	0.005	2/1	2008	00000425-30

Geoid Separations(ft): GEOID18 = -91.279 12B = -91.286 09 = -91.237 03 = -91.017

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_A-AA9014-3S-13SEP2011.jpg	S	Sep 13, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_A-AA9014-2-13SEP2011.jpg		Sep 13, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_A-AA9014-1-13SEP2011.jpg		Sep 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7596.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7596.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 12 B

NGS Name: Y 12 B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AA9015](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	4	113 N	20 W	443734.58	931318.51	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1989	2011	GOOD	Horz=NO Vert=NO	YES		FLUSH	STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	SURVEY DISK	NOS

Description: (2005) **Stamping:** Y 12 B 1989

2.0 MILES SOUTHEAST OF LAKEVILLE, AT AIRLAKE AIRPORT, AT THE SOUTHEAST END OF A FIELD NORTHEAST OF DISPLACED THRESHOLD RUNWAY 29 AND SOUTH OF PARALLEL TAXIWAY, 186.6 FEET NORTHEAST OF THE NORTHEAST THRESHOLD LIGHT, 125.9 FEET EAST OF A CULVERT, 165.7 FEET EAST-SOUTHEAST OF A TAXIWAY, 65.2 FEET SOUTHWEST OF A PARALLEL TAXIWAY, 202.4 FEET NORTHWEST OF A CULVERT, STATION Y 12 B IS A NATIONAL OCEAN SERVICE DISK (PHOTOGRAMMETRIC SECTION) DISK IN A CONCRETE MONUMENT.

Station Notes

CONTACT THE AIRPORT MANAGER BEFORE USE. THE SURVEY MARK IS ON AIRPORT PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	950.484	0.016	289.708	0.005	2/1	2008	00000425-30

Geoid Separations(ft): GEOID18 = -91.476 12B = -91.483 09 = -91.430 03 = -91.214

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_B-AA9015-3N-13SEP2011.jpg	N	Sep 13, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_B-AA9015-2-13SEP2011.jpg		Sep 13, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_B-AA9015-1-13SEP2011.jpg		Sep 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7597.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7597.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 12 C

NGS Name: Y 12 C

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AC4941](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
NW	4	113 N	20 W	443746.21	931352.98	2	B

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1994	2013	GOOD	Horz=NO Vert=YES	YES		RECESSED 4 IN.	STEEL SPIKE ADJ TO MON

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 44 FT)	METAL ROD	MNDT

Description: (2008) **Stamping:** Y 12 C 1994

AT SOUTH EDGE OF LAKEVILLE AIRPORT, 3.55 MILES EAST ALONG COUNTY ROAD 70 (JUNIPER WAY) FROM THE JUNCTION OF COUNTY ROAD 70 AND INTERSTATE HIGHWAY 35, THEN 0.5 MILE SOUTH ALONG HAMBURG AVENUE, THEN 0.15 MILE WEST ALONG 220TH STREET, THEN 0.1 MILE SOUTH ALONG ACCESS ROAD TO TAXIWAY PASSING MAC BUILDING, 298.0 FEET SOUTH OF THE SOUTHEAST CORNER OF A MAC BUILDING, 255.0 FEET WEST OF A 24.0 INCH DIAMETER METAL PIPE END, 138.0 FEET NORTH-NORTHEAST OF RUNWAY 12, 115.1 FEET EAST OF THE NORTHEAST CORNER OF THE NORTH 1 OF 2 VASI LIGHTS, 68.0 FEET SOUTH-SOUTHWEST OF A TAXIWAY.

Station Notes

CONTACT THE AIRPORT MANAGER 24 HOURS BEFORE USE. MINNEAPOLIS AIRLAKE AIRPORT. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Height (Elevation)

Vertical Datum	Orthometric (Feet) Height Accuracy	Orthometric (Meters) Height Accuracy	Survey Order/(Class)	Project Info Year Reference
NAVD88	954. 896 0. 016	291. 053 0. 005	2/1	2008 00000425-30

Geoid Separations(ft): GEOID18 = -91.315 12B = -91.322 09 = -91.273 03 = -91.053

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions				County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y	Year	Reference				
NAD83 (2011)	44 37 46. 21422	93 13 52. 97634	522204. 232	157456. 524	159168. 168	47992. 844	263. 217			2012	GPS2800	
NAD83 (2007)	44 37 46. 21436	93 13 52. 97712	522204. 176	157456. 538	159168. 151	47992. 849	263. 235			2007	GPS2300	
NAD83 (1996)	44 37 46. 21406	93 13 52. 97652	522204. 220	157456. 508	159168. 165	47992. 840	263. 279	B		1997	GPS805-	

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_C-AC4941-3N-13SEP2011.jpg	N	Sep 13, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_C-AC4941-2-13SEP2011.jpg		Sep 13, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_12_C-AC4941-1-13SEP2011.jpg		Sep 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7598.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7598.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Y 26

NGS Name: Y 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1469](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	29	114 N	18 W	443925.80	930046.38	2	3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	2022	GOOD	Horz=YES Vert=YES	YES		PROJECTS 4 IN.	STEEL ROD IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** Y 26 1933

AT EMPIRE, 750.0 FEET SOUTH OF COUNTY ROAD 66 (200TH STREET EAST), 148.0 FEET SOUTH-SOUTHWEST OF A 12.0 INCH DIAMETER SPRUCE TREE, 170.0 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A POLE SHED, 0.9 FOOT WEST OF A WITNESS POST, BEHIND EFFICIENCY RENTAL HOUSING UNITS, IN YARD OF HOUSE NUMBER 4528.

Station Notes

THE OWNER REQUESTS NO DRIVING ON THE GRASS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	857.669	0.016	261.418	0.005	2/1	2016	00000879
NGVD29	857.528	0.016	261.375	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.838 12B = -93.835 09 = -93.769 03 = -93.596

* No Horizontal Positions in the Database *

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_26-PP1469-3S-20OCT2022.jpg	S	Oct 20, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_26-PP1469-2-20OCT2022.jpg		Oct 20, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/Y_26-PP1469-1-20OCT2022.jpg		Oct 20, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7599.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7599.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: YANKEE MN037

NGS Name: YANKEE

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DP9201](#) [Get Map](#)
 NGS Quad / Sta Num : 44093112/
 USGS Quad: INVER GROVE HEIGHTS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
NW	13	27 N	23 W	444958.05	930717.79	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1988	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 2 IN.	MARKER W/BAR MAGNET

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE)	SURVEY DISK	MN-037

Description: (2011) **Stamping:** YANKEE 1988

IN EAGAN, 0.3 MILE WEST ALONG COUNTY ROAD 28/YANKEE DOODLE ROAD FROM THE JUNCTION OF COUNTY ROAD 28/YANKEE DOODLE ROAD AND TRUNK HIGHWAY 149/DODD ROAD, 80.0 FEET SOUTH OF THE CREST OF A SLOPE (SOUTH OF YANKEE DOODLE ROAD), 100.0 FEET EAST OF A WATER TOWER, 50.0 FEET SOUTH OF THREE 6.0 FOOT HIGH VERTICAL PIPELINE MARKERS, 45.0 FEET EAST OF AN ACCESS ROAD AROUND A WATER TOWER, 43.0 FEET NORTH OF A 10.0 INCH DIAMETER OAK TREE, 6.5 FEET WEST OF A WITNESS POST. USE ACCESS ROAD TO WATER TOWER IF POSSIBLE (580.0 FEET WEST OF A WATER TOWER, OFF EASTBOUND YANKEE DOODLE ROAD).

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	976.940	0.016	297.772	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.318 12B = -90.325 09 = -90.252 03 = -90.072

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (1986)	44 49 58.04361	93 07 17.78173	550607.488	231623.946	167825.498	70599.120			C	1991	H1991	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/YANKEE-DP9201-3W-05OCT2011.jpg	W	Oct 5, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/YANKEE-DP9201-2-01AUG2023.jpg		Aug 1, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/YANKEE-DP9201-1-05OCT2011.jpg		Oct 5, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7600.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7600.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: YANZ MRC

NGS Name: YANZ MRC

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [Get Map](#)
 NGS Quad / Sta Num : 44092431/203
 USGS Quad: HASTINGS

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	21	114 N	16 W	444021.19	924503.01		3

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1895	2011	GOOD	Horz=NO Vert=YES	YES		PROJECTS 8 IN.	MARK IS STEEL PIPE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
PIPE (<10 FT)	SURVEY DISK	MRC

Description: (2011) **Stamping:** 44 40' 21" 92 45' 03"

5.0 MILES SOUTH OF HASTINGS, 1.15 MILES EAST ON TRUNK HIGHWAY 291 FROM THE JUNCTION OF TRUNK HIGHWAY 61 AND TRUNK HIGHWAY 291, 6.45 MILES SOUTH ON COUNTY ROAD 54 FROM THE JUNCTION OF COUNTY ROAD 54 AND TRUNK HIGHWAY 291, 520.0 FEET WEST OF CENTERLINE OF COUNTY ROAD 54, 480.0 FEET WEST OF A WITNESS POST, 1.0 FOOT WEST OF A WITNESS POST ON THE TOP OF A HILL.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -97.487 12B = -97.490 09 = -97.431 03 = -97.273

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD27	44 40 21.29700	92 45 02.28800							1950	UNK

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/YANZ_MRC-3W-28AUG2011.jpg	W	Aug 28, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/YANZ_MRC-2-28AUG2011.jpg		Aug 28, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/YANZ_MRC-1-28AUG2011.jpg		Aug 28, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7601.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7601.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: Z 26

NGS Name: Z 26

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP1470](#) [Get Map](#)
 NGS Quad / Sta Num : 44093121/
 USGS Quad: COATES

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SE	19	114 N	18 W	443958.00	930110.00	2	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1933	1972	DESTROYED	Horz=NO Vert=NO	NO			SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE FOOTING - SMALL	BENCH MARK DISK	NGS

Description: (2011) **Stamping:** Z-26 1933

265.0 FEET SOUTH OF RAILROAD MILEPOST SOUTH 22, 6.5 FEET WEST OF THE WEST RAIL OF A RAILROAD, IN THE NORTHEAST CORNER OF A RAILROAD SIGNAL FOOTING.

Station Notes

TALKED WITH THE FARM OWNER, OLD RAILROAD BED HAS BEEN REMOVED. AREA HAS BEEN FARMED FOR ABOUT 30 YEARS.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	863.456	0.016	263.182	0.005	2/0	1991	00000025
NGVD29	863.315	0.016	263.139	0.005	2/0	1992	UNCHECKD

Geoid Separations(ft): GEOID18 = -93.628 12B = -93.628 09 = -93.556 03 = -93.379

* No Horizontal Positions in the Database *

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7602.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7602.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZIMMER MNDT

NGS Name: ZIMMER

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [PP2605](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	113 N	20 W	443747.51	931150.92		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2006	DESTROYED	Horz=NO Vert=NO	NO			STEEL SPIKE ADJ TO MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	HORIZONTAL CONTROL DISK	MNDT

Description: (2000) **Stamping:** ZIMMER 1980

2.5 MILES WEST OF FARMINGTON, 3.0 MILES WEST OF THE JUNCTION OF TRUNK HIGHWAY 3 AND TRUNK HIGHWAY 50 THEN 0.8 MILE SOUTH ON FLAGSTAFF AVENUE, 13.0 FEET WEST OF FLAGSTAFF AVENUE, 48.5 FEET SOUTH-SOUTHEAST OF A POWER POLE, 29.34 FEET WEST OF ZIMMER MNDT RM 1, 27.12 FEET SOUTH-SOUTHEAST OF ZIMMER MNDT RM 2, 7.7 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.762 12B = -91.771 09 = -91.716 03 = -91.499

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 47.51471	93 11 50.91964	531031.287	157599.315	161858.660	48036.367	257.299		2012	GPS2800
NAD83 (2007)	44 37 47.51482	93 11 50.92031	531031.238	157599.326	161858.645	48036.371	257.318		2007	GPS2300
NAD83 (1996)	44 37 47.51446	93 11 50.91970	531031.282	157599.290	161858.659	48036.360	257.362	C	1999	17648
NAD83 (1986)	44 37 47.50702	93 11 50.91864	531031.360	157598.537	161858.682	48036.130		1	1998	GPS927
NAD27	44 37 47.63340	93 11 50.13398						2	1982	16778

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7603.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7603.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZIMMER MNDT RM 1

NGS Name: ZIMMER RM 1

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4152](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	113 N	20 W	443747.52	931150.51		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 11 IN.	BAR MAG IMBED IN MON

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** ZIMMER NO 1 1980

0.85 MILE SOUTH ON FLAGSTAFF AVENUE FROM THE JUNCTION OF FLAGSTAFF AVENUE AND COUNTY ROAD 50 (212TH STREET), 62.0 FEET SOUTHEAST OF A POWER POLE, 40.0 FEET NORTH OF A GAS PIPELINE SIGN, 29.34 FEET EAST OF ZIMMER MNDT, 15.0 FEET EAST OF THE CENTERLINE OF FLAGSTAFF AVENUE, 4.2 FEET NORTH OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.762 12B = -91.775 09 = -91.719 03 = -91.499

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 47.52138	93 11 50.51277	531060.711	157600.034	161867.628	48036.586	256.909		2016	GPS3152
NAD83 (1996)	44 37 47.52125	93 11 50.51313	531060.685	157600.021	161867.621	48036.582	256.973	C	2016	HDAK2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZIMMER_RM_1-CJ4152-3E-01NOV2022.jpg	E	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZIMMER_RM_1-CJ4152-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZIMMER_RM_1-CJ4152-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66684.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66684.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZIMMER MNDT RM 2

NGS Name: ZIMMER RM 2

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [CJ4153](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NE	3	113 N	20 W	443747.78	931150.99		C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1980	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 7 IN.	SEE DESCRIPTION

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	REFERENCE MARK DISK	MNDT

Description: (2011) **Stamping:** ZIMMER NO 2 1980

0.85 MILE SOUTH ON FLAGSTAFF AVENUE FROM THE JUNCTION OF FLAGSTAFF AVENUE AND COUNTY ROAD 50 (212TH STREET), 40.3 FEET NORTHWEST OF ZIMMER MNDT RM 1, 27.12 FEET NORTH-NORTHWEST OF ZIMMER MNDT, 20.6 FEET SOUTH-SOUTHEAST OF A POWER POLE, 20.0 FEET WEST OF FLAGSTAFF AVENUE, 2.3 FEET EAST OF A WITNESS POST.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -91.762 12B = -91.771 09 = -91.716 03 = -91.496

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>		<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 37 47.77687	93 11 50.99283	531025.955	157625.858	161857.035	48044.458	256.857		2016	GPS3152
NAD83 (1996)	44 37 47.77675	93 11 50.99311	531025.935	157625.846	161857.029	48044.454	256.922	C	2016	HDAK2

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZIMMER_RM_2-CJ4153-3W-01NOV2022.jpg	W	Nov 1, 2022
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZIMMER_RM_2-CJ4153-2-01NOV2022.jpg		Nov 1, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZIMMER_RM_2-CJ4153-1-01NOV2022.jpg		Nov 1, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_66716.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_66716.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZMPA

NGS Name: ZMPA

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AA5380](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

1/4	Sec	Twp	Rng	Reference Latitude	Reference Longitude	Vert Order	Horz Order
SW	31	114 N	19 W	443807.81	930905.65	2	B

Year Set	Last Recovery	Condition	Geodetic Usability	Photos	Bridge Num	F/P/R	Magnetic Properties
1995	2011	GOOD	Horz=NO Vert=YES	YES		RECESSED 4 IN.	MARKER W/BAR MAGNET

Monument Type	Disk Type	Mon. Agency
STEEL ROD (NO SLEEVE) (DEPTH 132 FT)	METAL ROD	NGS

Description: (2004) **Stamping:** ZMP A 1995

IN FARMINGTON, 0.7 MILE WEST ALONG COUNTY ROAD 50 FROM THE JUNCTION OF COUNTY ROAD 50 AND TRUNK HIGHWAY 3 IN FARMINGTON, THEN 0.3 MILE SOUTH ON DIVISION STREET TO A SECURITY GATE AT THE FEDERAL AVIATION ADMINISTRATION AIR ROUTE TRAFFIC CONTROL CENTER, THEN 0.15 MILE SOUTH ON A DRIVE TO THE SOUTHWEST CORNER OF A PARKING LOT, 79.6 FEET SOUTH OF A LIGHT POLE, 16.2 FEET WEST-NORTHWEST OF A CORNER PARKING LOT CURB AND GUTTER, 5.8 FEET SOUTHWEST OF A WOOD POST WITH AN ELECTRIC VEHICLE PLUG IN, 10.1 FEET EAST OF A WITNESS POST.

Station Notes

MUST CHECK IN AT THE GATE. THE SURVEY MARK IS ON PRIVATE PROPERTY AND HAS BEEN ABANDONED FOR MNDOT GEODETIC USE.

Leveling-Derived Orthometric Heights (Elevations)

Vertical Datum	Orthometric (Feet)		Orthometric (Meters)		Survey Order/(Class)	Project Info	
	Height	Accuracy	Height	Accuracy		Year	Reference
NAVD88	909.762	0.016	277.296	0.005	2/1	2001	00000122
NGVD29	909.618	0.016	277.252	0.005	2/1	1995	VWAAS

Geoid Separations(ft): GEOID18 = -92.313 12B = -92.319 09 = -92.264 03 = -92.050

Geodetic Position and Dakota County Coordinates

Datum and Adjustment	Geodetic Positions		County (Feet)		County (Meters)		Ellipsoid Hgt (m)	Surv Ord	Project Info	
	Latitude	Longitude	X	Y	X	Y			Year	Reference
NAD83 (2011)	44 38 07.81062	93 09 05.64557	542979.801	159675.676	165500.574	48669.243	249.147		2012	GPS2800
NAD83 (2007)	44 38 07.81072	93 09 05.64634	542979.745	159675.686	165500.557	48669.246	249.173		2007	GPS2300
NAD83 (1996)	44 38 07.81064	93 09 05.64713	542979.688	159675.678	165500.540	48669.244	249.206	B	1997	GPS805-

Station Photos

Type	File Name	Dir	Date
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZMP_A-AA5380-3W-13SEP2011.jpg	W	Sep 13, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZMP_A-AA5380-2-13SEP2011.jpg		Sep 13, 2011
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZMP_A-AA5380-1-13SEP2011.jpg		Sep 13, 2011

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7604.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7604.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZMP B

NGS Name: ZMP B

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [AA5381](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
NW	31	114 N	19 W	443839.94	930913.21	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1995	2022	GOOD	Horz=YES Vert=YES	YES		RECESSED 5 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
STEEL ROD (IN SLEEVE) (DEPTH 160 FT)	METAL ROD	NGS

Description: (2014) **Stamping:** ZMP B 1995

IN FARMINGTON, 0.9 MILE WEST ON COUNTY ROAD 50 (ELM STREET) FROM THE JUNCTION OF COUNTY ROAD 50 (ELM STREET) AND TRUNK HIGHWAY 3 IN FARMINGTON TO A PARKING LOT FOR THE BASEBALL FIELDS ON NORTH, THEN 800.0 FEET NORTH ON BASEBALL FIELD NUMBER 1, IN LINE WITH NORTH BACKSTOP OF SOUTHWEST OF 4 SCHOOL BALL FIELDS AND EAST BACKSTOP OF CITY PARK BALL FIELD TO THE SOUTH, 383.0 FEET NORTH OF NORTHERN MOST POST OF BACKSTOP ON THIRD BASE SIDE OF CITY PARK BALL FIELD NUMBER 1, 92.25 FEET EAST OF A WITNESS POST, 30.0 FEET WEST OF THE END OF THE OUTFIELD FENCE.

Leveling-Derived Orthometric Heights (Elevations)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	900.274	0.016	274.404	0.005	2/1	2016	00000879
NGVD29	900.129	0.016	274.360	0.005	2/1	1995	VWAAS

Geoid Separations(ft): GEOID18 = -92.201 12B = -92.208 09 = -92.149 03 = -91.932

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>			<u>Year</u>	<u>Reference</u>
NAD83 (2011)	44 38 39.94248	93 09 13.20737	542426.469	162928.777	165331.918	49660.791	246.289			2012	GPS2800	
NAD83 (2007)	44 38 39.94259	93 09 13.20814	542426.413	162928.788	165331.901	49660.794	246.313			2007	GPS2300	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZMP_B-AA5381-3E-13SEP2011.jpg	E	Sep 13, 2011
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZMP_B-AA5381-2-31OCT2022.jpg		Oct 31, 2022
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZMP_B-AA5381-1-31OCT2022.jpg		Oct 31, 2022

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_7605.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_7605.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZMP1 MINNEAPOLIS CORS ARP

NGS Name: MINNEAPOLIS WAAS CORS ARP

County: DAKOTA, MN (Sheet 1)

NGS ACRN: [DE9155](#) [Get Map](#)
 NGS Quad / Sta Num : 44093124/
 USGS Quad: FARMINGTON

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u> <u>Latitude</u>	<u>Reference</u> <u>Longitude</u>	<u>Vert</u> <u>Order</u>	<u>Horz</u> <u>Order</u>
SW	31	114 N	19 W	443814.84	930907.47		B

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2002	2016	GOOD	Horz=YES Vert=NO	YES			NO MAG MATERIAL

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
SEE DESCRIPTIVE TEXT	SEE DESCRIPTION	NGS

Description: (2007)

Stamping:

IN FARMINGTON. TOP OF BRACKET (ANTENNA REFERENCE POINT) FOR GPS ANTENNA ATTACHED TO THE TOP OF THE FEDERAL AVIATION ADMINISTRATION AIR ROUTE CONTROL BUILDING. 4000.0 FEET (0.75 MILE) WEST OF THE JUNCTION CHIPPENDALE AVENUE WEST AND SPRUCE STREET IN FARMINGTON, 183.0 FEET SOUTH ON SPRUCE STREET.

Station Notes

THE NATIONAL GEODETIC SURVEY (NGS) PUBLISHED HEIGHT MOD - 291.290.

* No 1st or 2nd Order Vertical Positions in the Database *

Geoid Separations(ft): GEOID18 = -92.290 12B = -92.296 09 = -92.241 03 = -92.024

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>		<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>				
NAD83 (2011)	44 38 14.84002	93 09 07.46674	542846.667	160387.322	165459.995	48886.154	263.173			2019	CORS-MY	
NAD83 (2007)	44 38 14.84040	93 09 07.46737	542846.622	160387.360	165459.981	48886.165	263.174			2007	GPS2300	
NAD83 (1996)	44 38 14.84040	93 09 07.46737	542846.622	160387.360	165459.981	48886.165	263.174	B		2007	GPS2360	

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MINNEAPOLIS_WAAS_CORS_ARP-DE9155-3S-24OCT2006.jpg	S	Oct 24, 2006
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/MINNEAPOLIS_WAAS_CORS_ARP-DE9155-2-24OCT2006.jpg		Oct 24, 2006
Disk:			

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_50981.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_50981.pdf



Data Sheet Selection By County Name & Map Sheet (Without Photos)

Mn/DOT Name: ZOO

NGS Name: ZOO

County: DAKOTA, MN (Sheet 1)

NGS ACRN: DQ8795	Get Map
NGS Quad / Sta Num : 44093124/	
USGS Quad: FARMINGTON	

<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>
				<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>
SW	22	115 N	20 W	444448.56	931302.44	2	C

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
2017	2023	GOOD	Horz=YES Vert=YES	YES		RECESSED 3 IN.	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
ALUMINUM ALLOY ROD (NO SLEEVE) (DEPTH 11 FT)	METAL ROD (WITH REMOVABLE ID DISK)	MNDT

Description: (2017) **Stamping:** ZOO 2017

IN APPLE VALLEY, AT THE JUNCTION OF CEDAR AVENUE (COUNTY ROAD 23) AND 140TH STREET IN APPLE VALLEY, 52.6 FEET EAST OF NORTHBOUND CEDAR AVENUE, 147.2 FEET NORTH OF 140TH STREET, 1.5 FEET WEST OF A WITNESS POST.

Station Pair: CEDAR MN037 - DAKOTA, MN

Leveling-Derived Orthometric Height (Elevation)

<u>Vertical Datum</u>	<u>Orthometric (Feet)</u>		<u>Orthometric (Meters)</u>		<u>Survey Order/(Class)</u>	<u>Project Info</u>	
	<u>Height</u>	<u>Accuracy</u>	<u>Height</u>	<u>Accuracy</u>		<u>Year</u>	<u>Reference</u>
NAVD88	988.210	0.016	301.207	0.005	2/1	2020	00000955

Geoid Separations(ft): GEOID18 = -90.167 12B = -90.170 09 = -90.111 03 = -89.908

Geodetic Position and Dakota County Coordinates

<u>Datum and Adjustment</u>	<u>Geodetic Positions</u>				<u>County (Feet)</u>			<u>County (Meters)</u>		<u>Ellipsoid Hgt (m)</u>	<u>Surv Ord</u>	<u>Project Info</u>	
	<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>	<u>Year</u>	<u>Reference</u>					
NAD83 (2011)	44 44 48.56067	93 13 02.43647	525807.149	200234.831	160266.339	61031.699	273.734	2018	GPS3290				
NAD83 (1996)	44 44 48.56054	93 13 02.43688	525807.119	200234.818	160266.330	61031.695	273.806	C	2018	HTH77			

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZOO-DQ8795-3E-13JUL2023.jpg	E	Jul 13, 2023
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZOO-DQ8795-2-13JUL2023.jpg		Jul 13, 2023
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/dakota/ZOO-DQ8795-1-30OCT2017.jpg		Oct 30, 2017

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **

Caution: Any positions shown above were [selected](#) based on specific criteria. To evaluate all positions, see detailed versions of this data sheet:

Download the Complete ENGLISH Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Single%20Sheet/GSID_108742.pdf

Download the Complete METRIC Data Sheet: ftp://ftp.olmweb.dot.state.mn.us/Geod/PDF%20Metric%20Sheet/M_GSID_108742.pdf