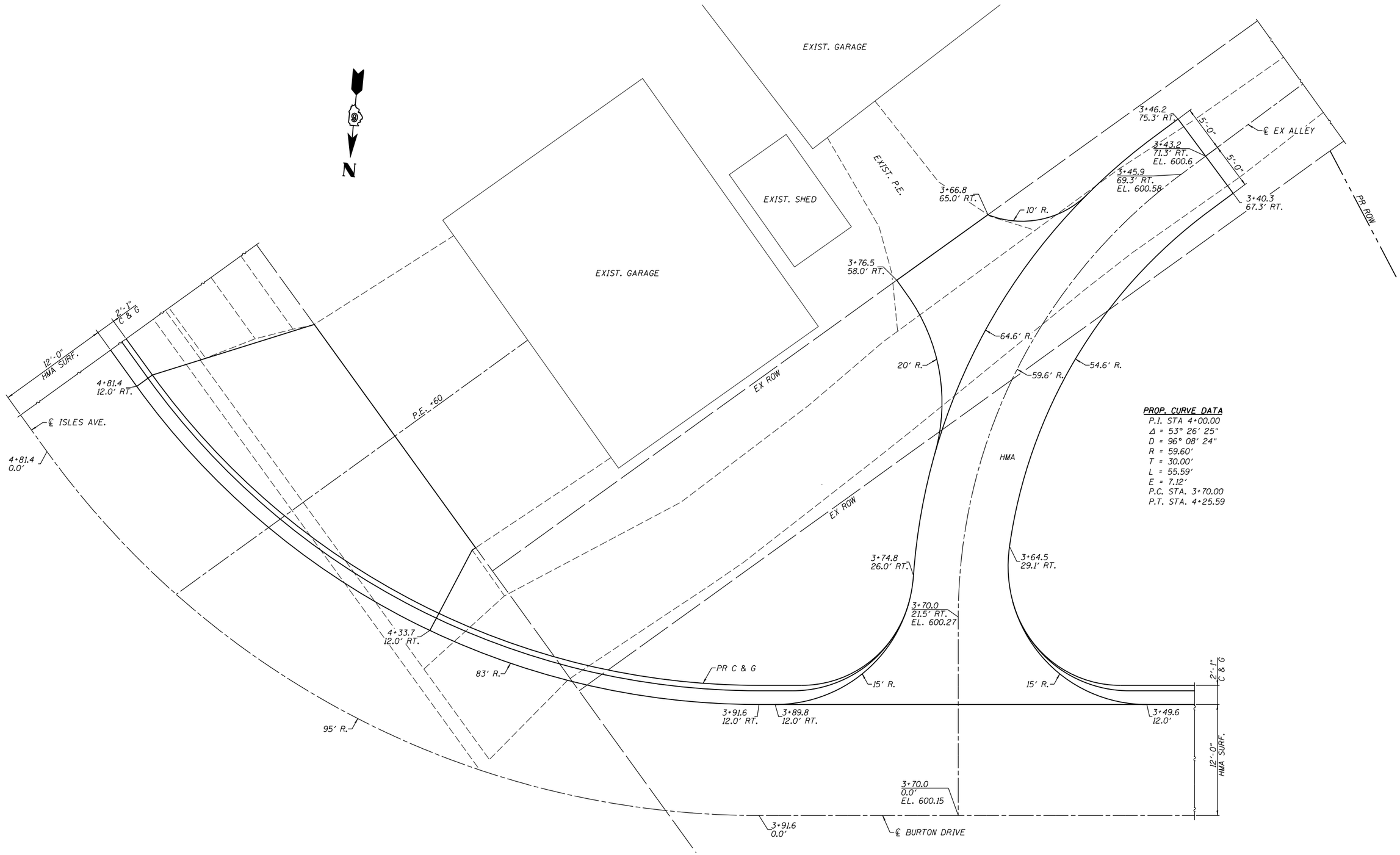


PROP. CURVE DATA

P.I. STA 4+00.00
Δ = 53° 26' 25"
D = 96° 08' 24"
R = 59.60'
T = 30.00'
L = 55.59'
E = 7.12'
P.C. STA. 3+70.00
P.T. STA. 4+25.59

ALLEY RELOCATION PLAN

NOTE: SEE PLAN AND PROFILE - BURTON DRIVE FOR MORE DETAILS

DESIGNED
DRAWN
FINALIZED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ALLEY RELOCATION PLAN – BURTON DRIVE

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	101
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		

HANSON

NOTES:

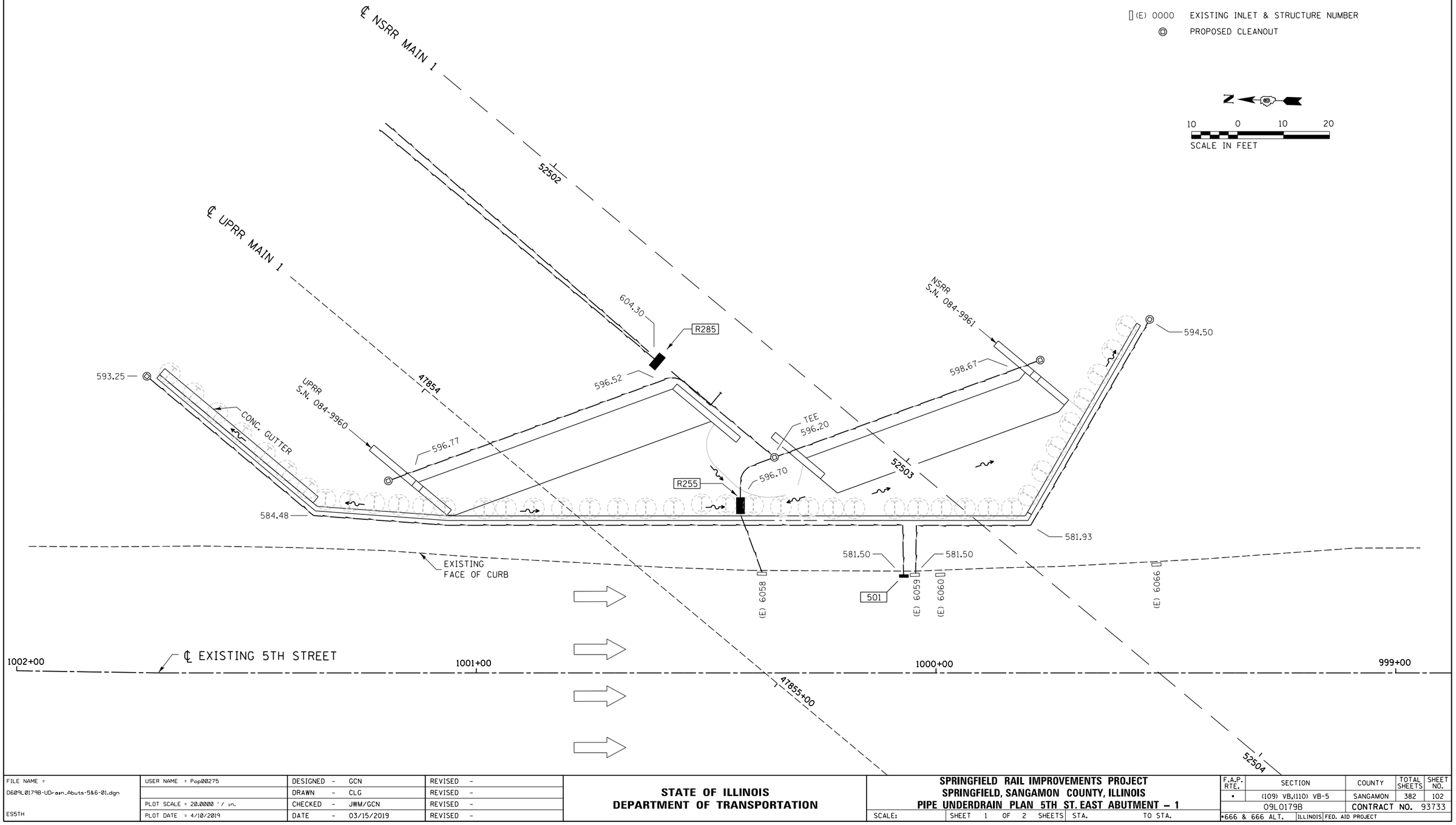
ALL FITTINGS, TEES, CONNECTIONS & CLEANOUTS INCLUDED IN THE CONTRACT UNIT PRICE FOR PIPE UNDERDRAIN.

LEGEND

- PROPOSED INLET
- RXXX — PROPOSED STRUCTURE NUMBER
- PROPOSED MANHOLE
- PROPOSED PIPE UNDERDRAIN FOR STRUCTURES
- (E) 0000 — EXISTING INLET & STRUCTURE NUMBER
- PROPOSED CLEANOUT

N

10 0 10 20
SCALE IN FEET



FINAL

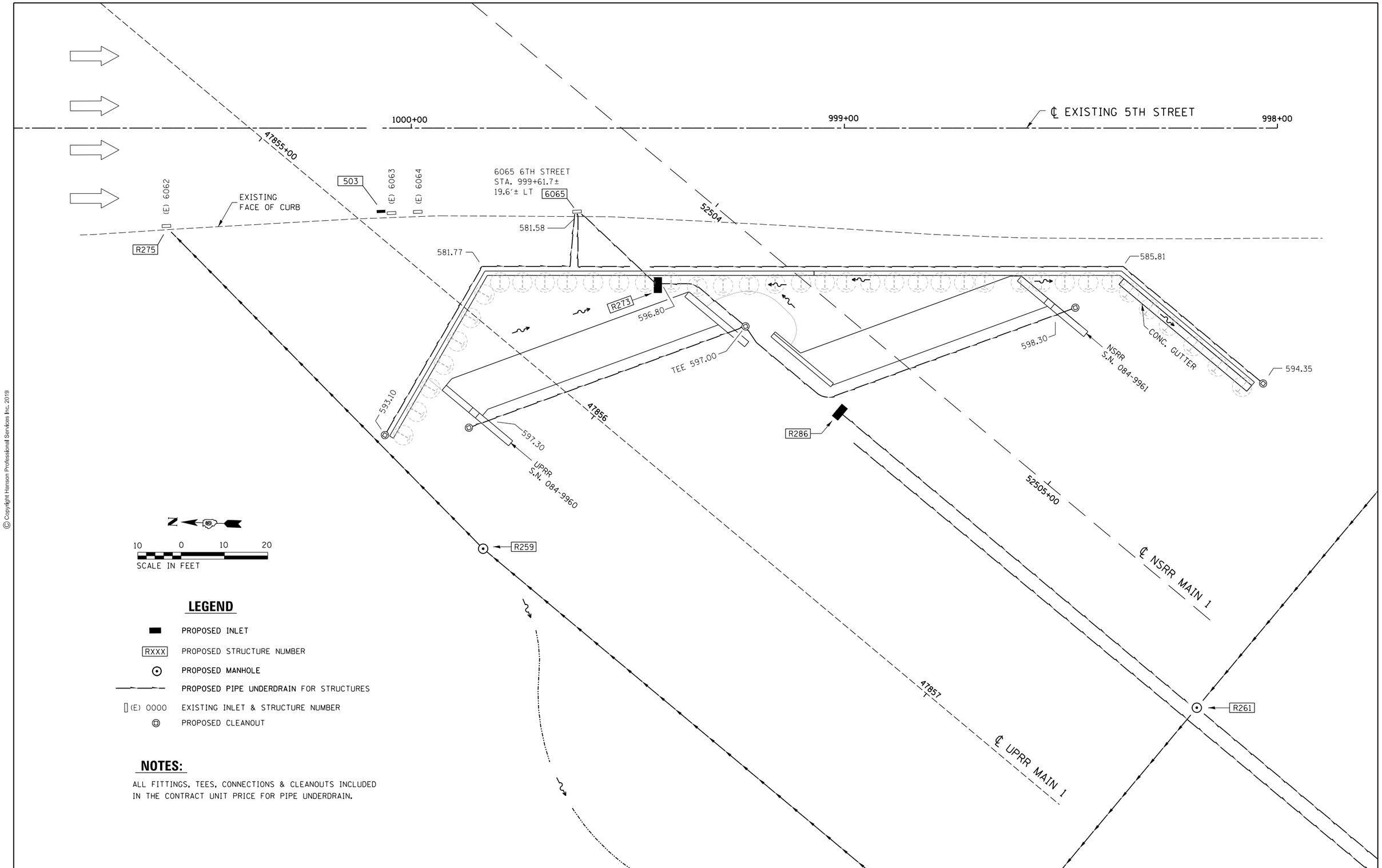
FILE NAME = D609L0179B-UDrain_Abuts-5&6-01.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
ES5TH	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
PIPE UNDERDRAIN PLAN 5TH ST. EAST ABUTMENT – 1

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	102
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



LEGEND

- PROPOSED INLET
- RXXX — PROPOSED STRUCTURE NUMBER
- PROPOSED MANHOLE
- PROPOSED PIPE UNDERDRAIN FOR STRUCTURES
- (E) 0000 — EXISTING INLET & STRUCTURE NUMBER
- PROPOSED CLEANOUT

NOTES:

ALL FITTINGS, TEES, CONNECTIONS & CLEANOUTS INCLUDED IN THE CONTRACT UNIT PRICE FOR PIPE UNDERDRAIN.

FINAL

FILE NAME = D609L0179B-UDrain_Abuts-5&6-01.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
WS5TH	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
PIPE UNDERDRAIN PLAN 5TH ST. WEST ABUTMENT – 2

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	103
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

HANSON

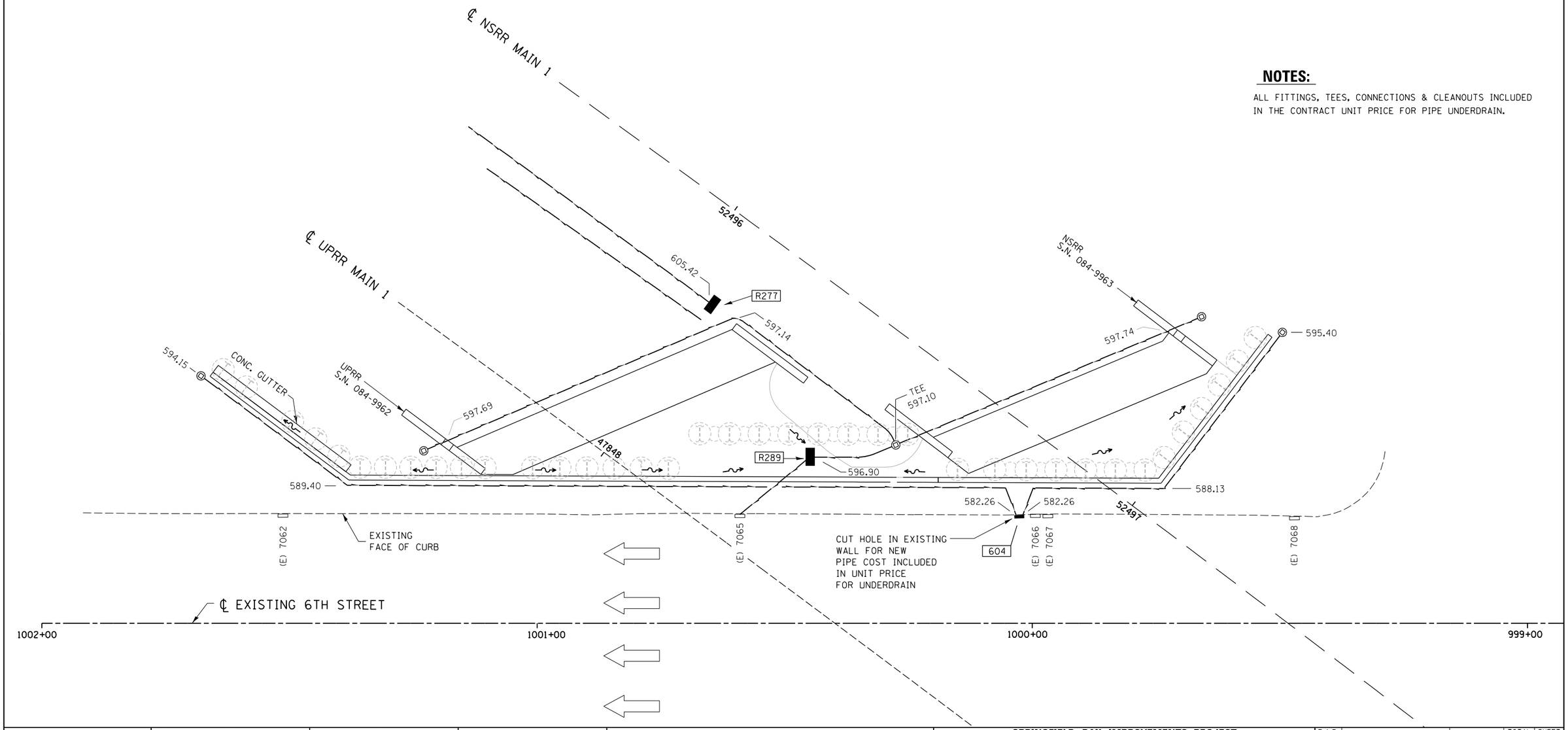
LEGEND

- PROPOSED INLET
- RXXX — PROPOSED STRUCTURE NUMBER
- PROPOSED MANHOLE
- PROPOSED PIPE UNDERDRAIN FOR STRUCTURES
- (E) 0000 — EXISTING INLET & STRUCTURE NUMBER
- PROPOSED CLEANOUT

10 0 10 20
SCALE IN FEET

NOTES:

ALL FITTINGS, TEES, CONNECTIONS & CLEANOUTS INCLUDED IN THE CONTRACT UNIT PRICE FOR PIPE UNDERDRAIN.



FINAL

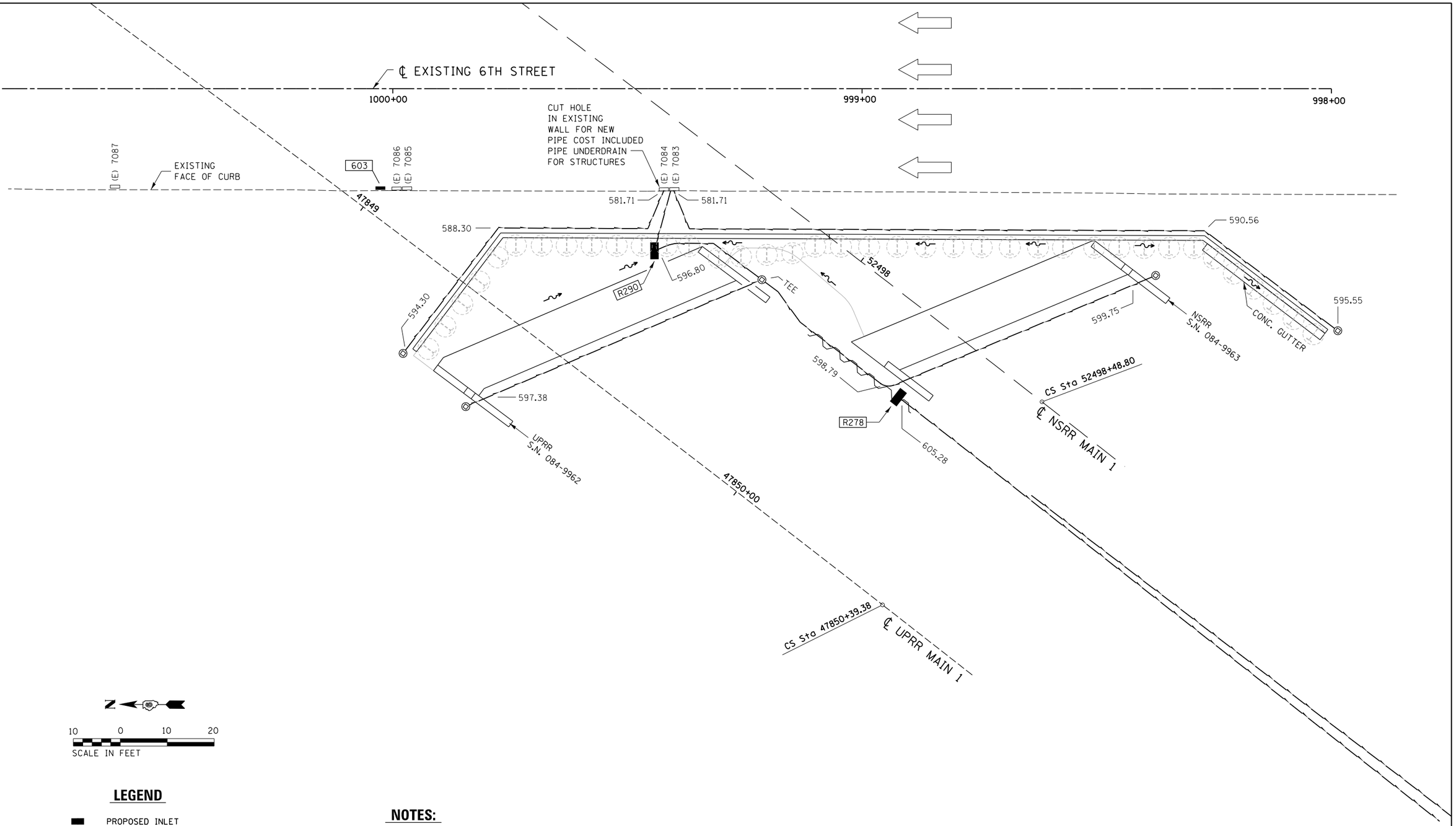
FILE NAME = D609L0179B-UDrain_Abuts-5&6-01.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
ES6TH	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
PIPE UNDERDRAIN PLAN 6TH ST. EAST ABUTMENT – 1

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	104
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



LEGEND

- PROPOSED INLET
- RXXX — PROPOSED STRUCTURE NUMBER
- PROPOSED MANHOLE
- PROPOSED PIPE UNDERDRAIN FOR STRUCTURES
- (E) 0000 — EXISTING INLET & STRUCTURE NUMBER
- PROPOSED CLEANOUT

NOTES:

ALL FITTINGS, TEES, CONNECTIONS & CLEANOUTS INCLUDED IN THE CONTRACT UNIT PRICE FOR PIPE UNDERDRAIN.

FINAL

FILE NAME = D609L0179B-UDrain_Abuts-5&6-01.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
WS6TH	PLOT SCALE = 20.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

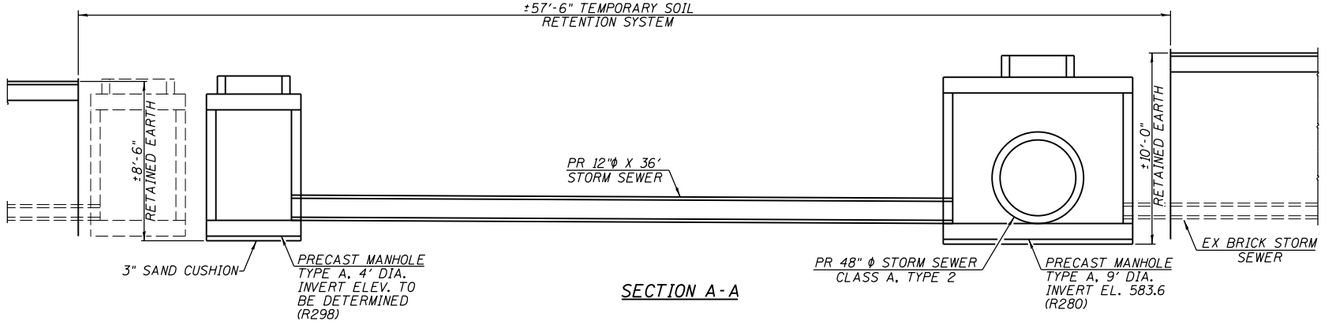
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
PIPE UNDERDRAIN PLAN 6TH ST. WEST ABUTMENT – 2

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

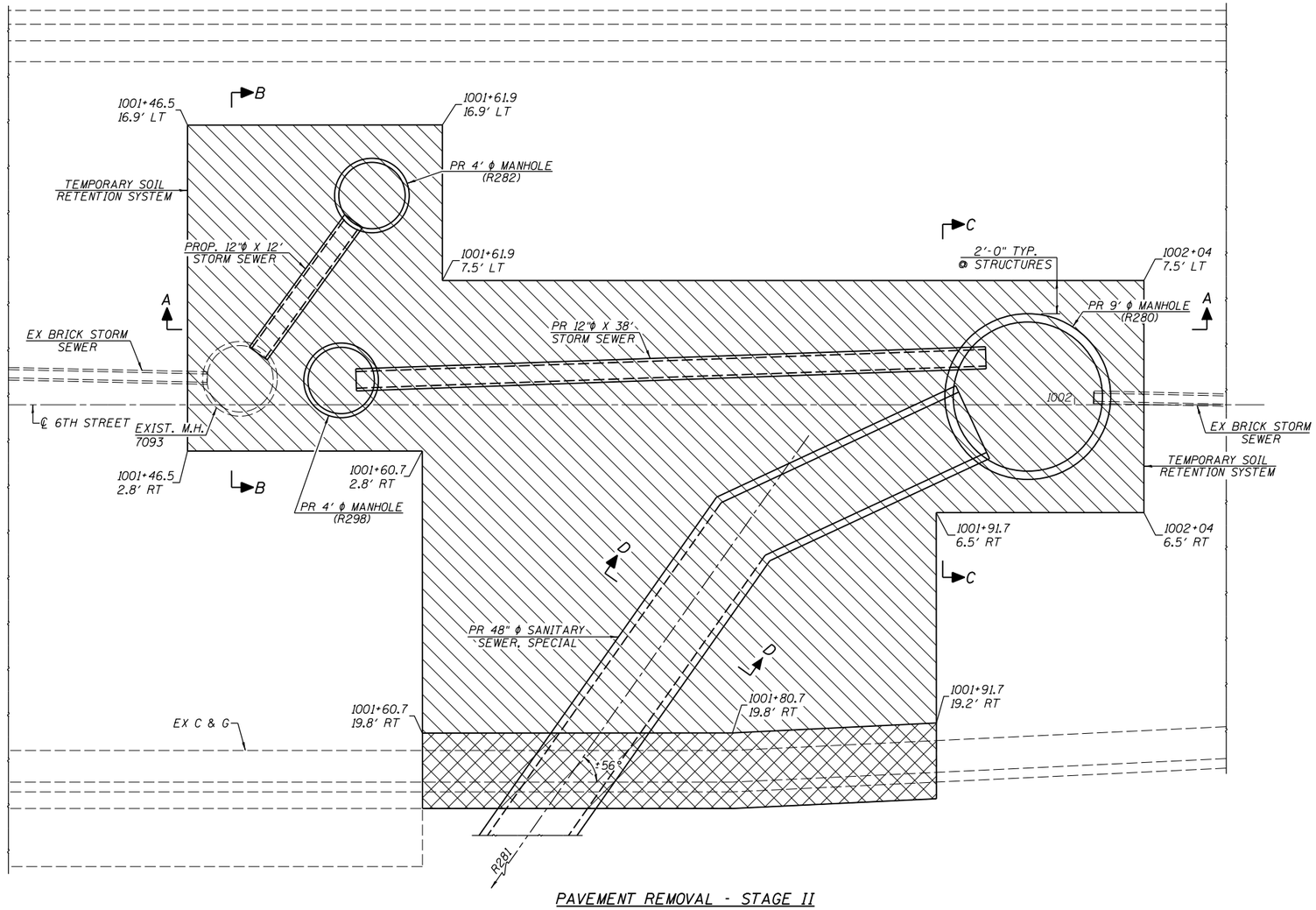
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	105
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

NOTE: THIS WORK TO BE COMPLETED DURING ONE OF THE ROAD CLOSURE WEEKENDS.

SEE PLAN AND PROFILE - RELOCATED 48" DIAMETER SANITARY SEWER FOR MORE DETAILS.

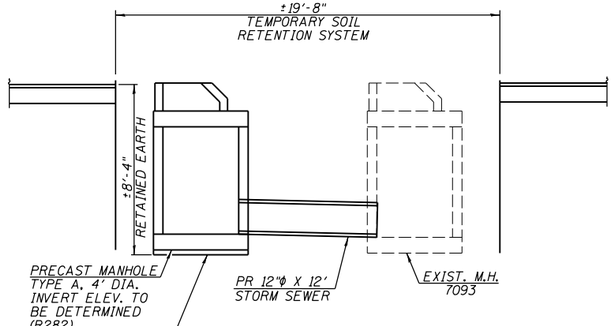


SECTION A-A

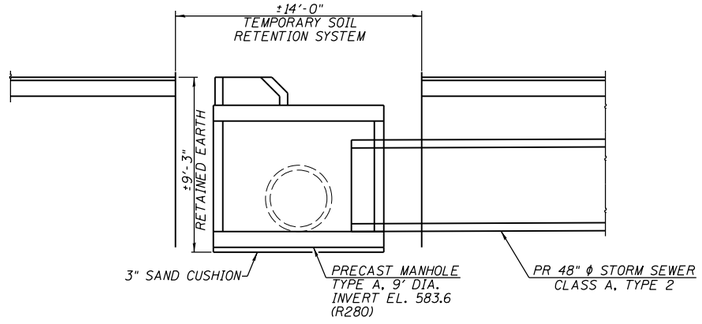


PAVEMENT REMOVAL - STAGE II

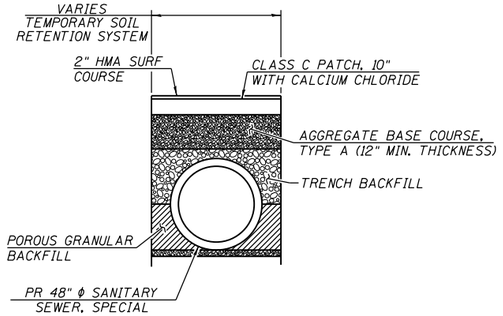
- DENOTES CLASS C PATCH 10"
- DENOTES CONCRETE REMOVAL



SECTION B-B



SECTION C-C



SECTION D-D

DESIGNED
DRAWN
FINALIZED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

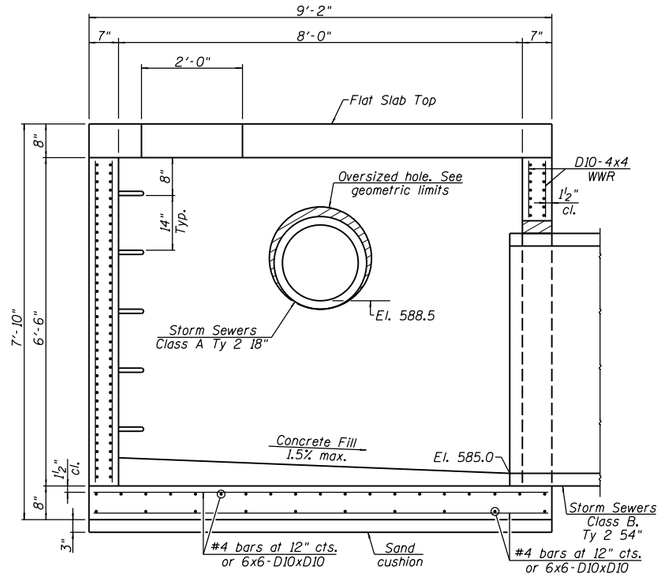
USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN - JRP	REVISED -
PLOT SCALE = 8.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
6TH STREET DRAINAGE & STORM SEWER DETAILS

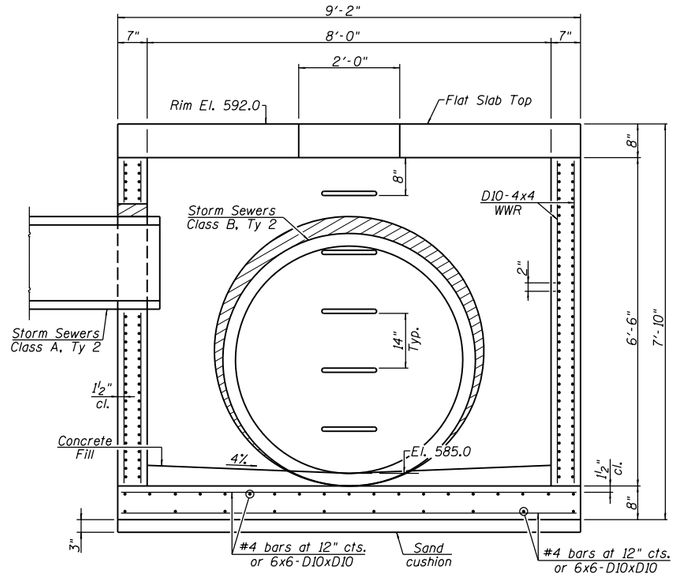
SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	106
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



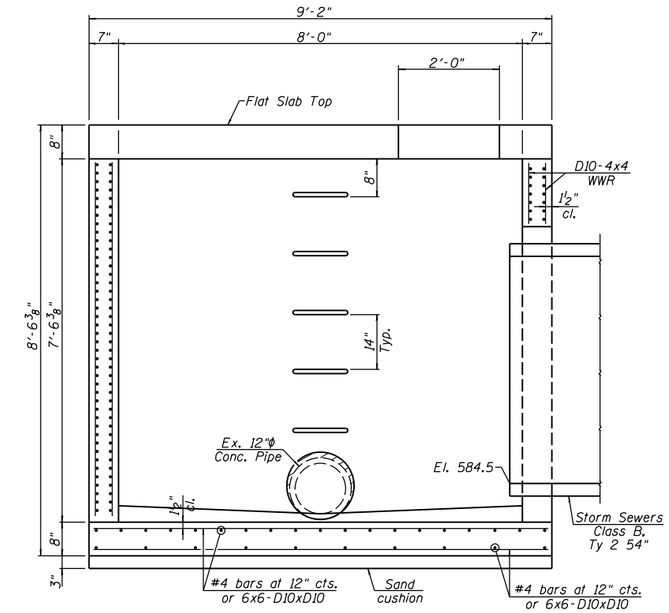
SECTION THRU MANHOLE P102

STA. 100+63, 11' LT.



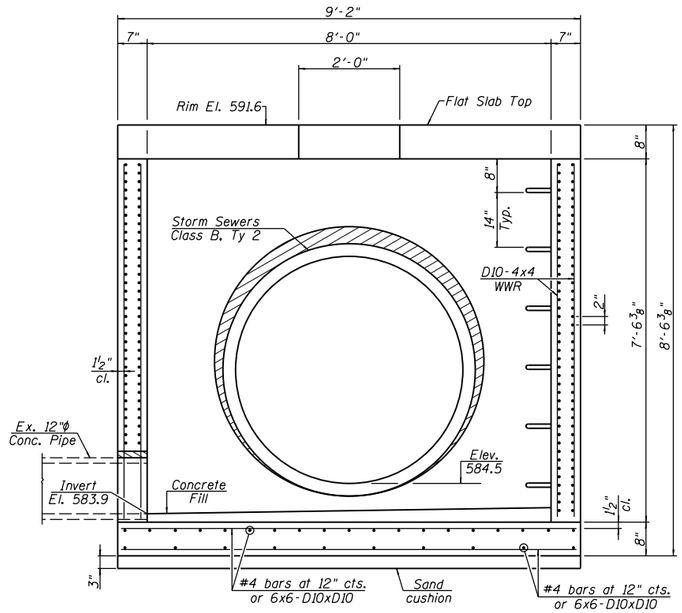
SECTION THRU MANHOLE P102

STA. 100+63, 11' LT.



SECTION THRU MANHOLE P103

STA. 100+40, 11' RT.



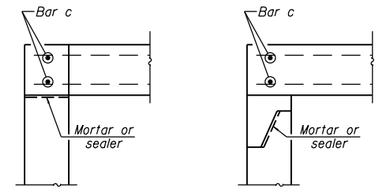
SECTION THRU MANHOLE P103

STA. 100+40, 11' RT.

GEOMETRIC LIMITS

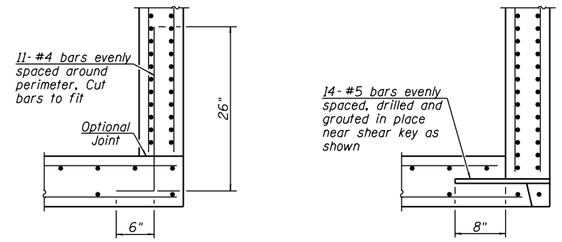
Oversize holes, as necessary for constructability, shall satisfy the following requirements:

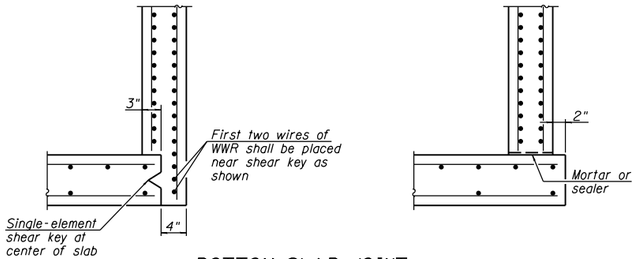
1. A minimum of 9" of monolithic reinforced concrete shall be maintained above the fabricated pipe hole.
2. A minimum 9" inside arc length of reinforced concrete, extending vertically from bottom slab to top slab, shall be maintained between the fabricated pipe holes.
3. A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.
4. Horizontal joints through pipe holes shall be spliced when the remaining column between holes, measured along inside arc length, is less than 24". See detail.
5. The recommended oversized hole is equal to the O.D. of the pipe plus 4".



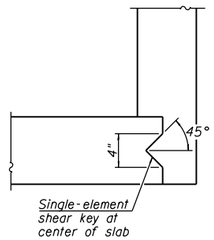
TOP SLAB JOINT CONFIGURATIONS

(Shown at access hole)





BOTTOM SLAB JOINT CONFIGURATIONS



SHEAR KEY GEOMETRY

(Reinforcement not shown for clarity)

DESIGNED
DRAWN
CHECKED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

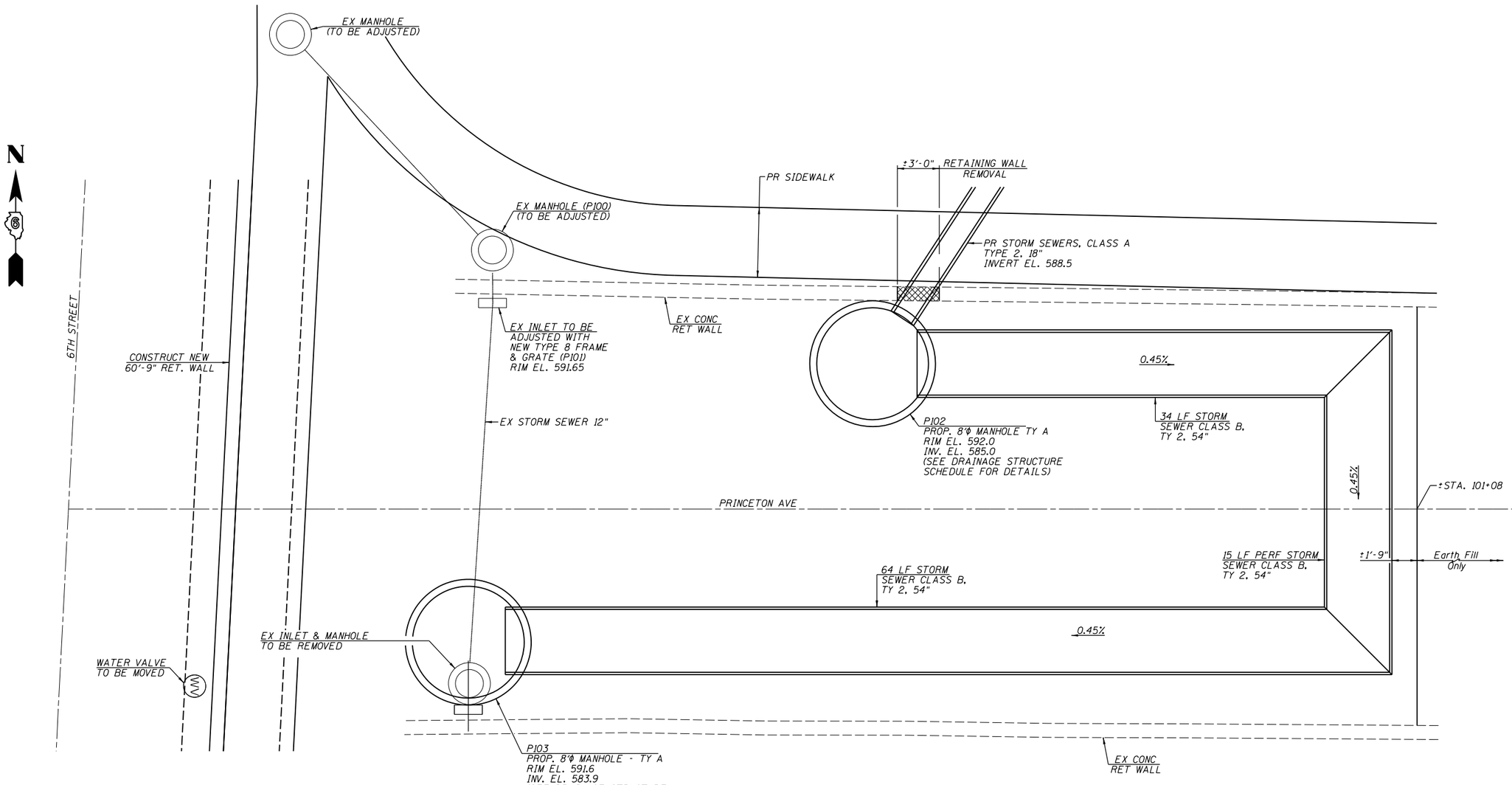
USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 3.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

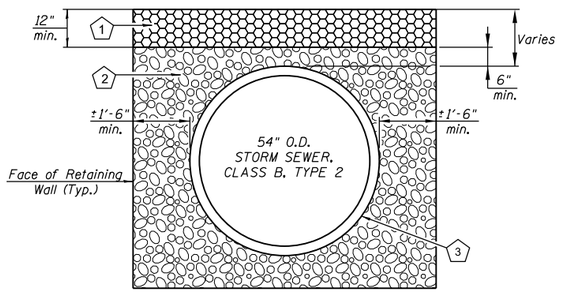
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
PRINCETON AVE. DRAINAGE DETAILS – 1

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	107
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



STORM SEWER DETENTION PLAN



STORM SEWER DETENTION BACKFILL DETAIL

1.) EARTH FILL

2.) TRENCH BACKFILL

3.) HIGH DENSITY POLYETHYLENE

FOUNDATION/BEDDING PREPARATION

PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE 4 INCHES OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

BACKFILL

THE BACKFILL SHALL BE ACCORDING TO SECTIONS 208 AND 209 OF THE STANDARD SPECIFICATIONS OR A WELL-GRADED GRANULAR FILL AS APPROVED BY THE ENGINEER. THE MATERIAL SHALL BE PLACED IN 8-INCH LOOSE LIFTS AND COMPACTED TO 90% AASHTO T99 STANDARD PROCTOR DENSITY. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (16") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE DETENTION SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE PIPE.

OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS. REFER TO TYPICAL BACKFILL DETAIL FOR MATERIAL REQUIRED.

DESIGNED
DRAWN
CHECKED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

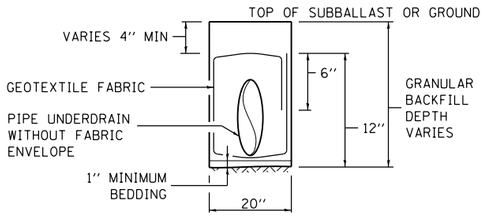
USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 7.9998 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
PRINCETON AVE. DRAINAGE DETAILS – 2

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	108
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



SECTION VIEW

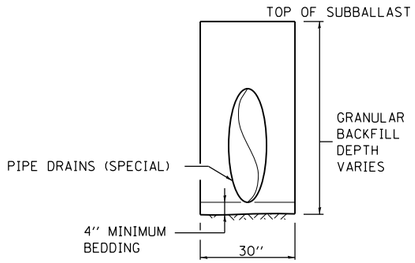
PIPE UNDERDRAINS, TYPE 2

NOTES: PIPE UNDERDRAINS, TYPE 2

(4) PIPE UNDERDRAIN MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 601 OF THE STANDARD SPECIFICATIONS. THE GRANULAR BACKFILL GRADATION SHALL BE CA-7.

(5) ALL MATERIALS WILL NOT BE MEASURED SEPARATELY, BUT WILL BE INCLUDED IN THE CONTRACT PRICE PER UNIT FOR PIPE UNDERDRAINS, TYPE 2 OF THE SIZE SPECIFIED.

(6) PERFORATED PIPE SHALL BE PERFORATED CORRUGATED PE PIPE WITH A SMOOTH INTERIOR MEETING ARTICLE 1040.04



SECTION VIEW

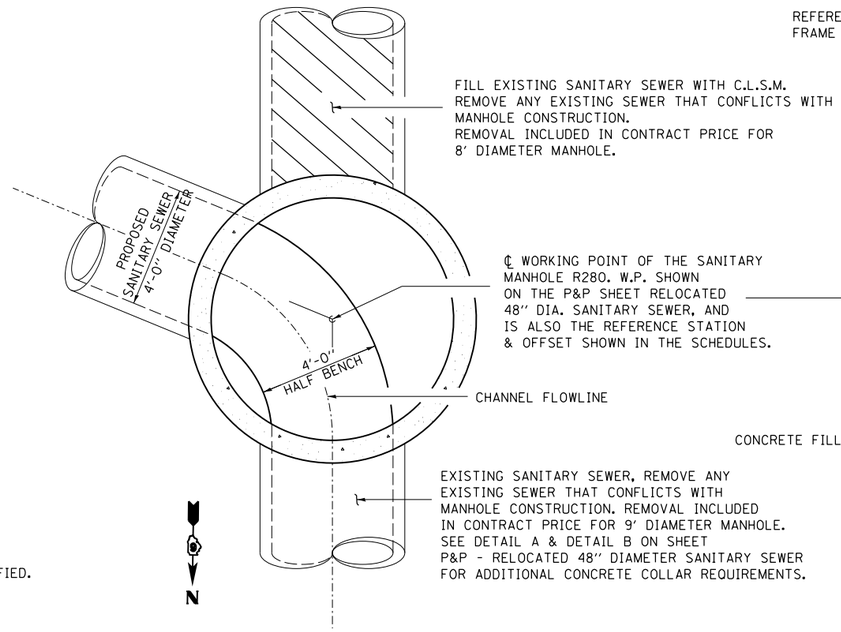
PIPE DRAINS (SPECIAL)

NOTES: PIPE DRAINS (SPECIAL)

(1) BEDDING AND GRANULAR BACKFILL SHALL BE COARSE AGGREGATE MEETING ARTICLE 1004.05, EXCEPT THAT THE GRADATION SHALL BE CA-7. GRANULAR BACKFILL SHALL BE PLACED AND COMPACTED ACCORDING TO ARTICLE 542.04(C) AND 542.04(F), RESPECTIVELY.

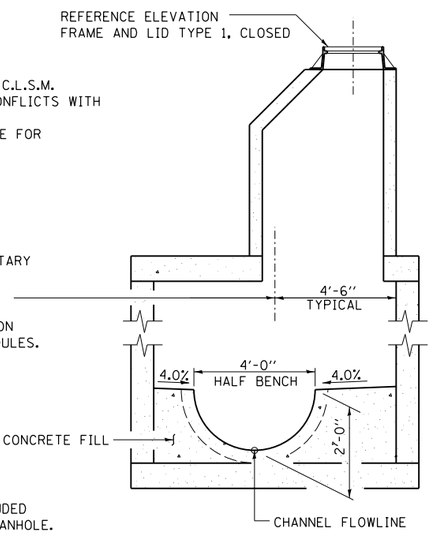
(2) ALL MATERIALS WILL NOT BE MEASURED SEPARATELY, BUT WILL BE INCLUDED IN THE CONTRACT PRICE PER UNIT FOR PIPE DRAIN (SPECIAL) OF DIAMETER SPECIFIED.

(3) PIPE DRAINS (SPECIAL) SHALL BE A SMOOTH STEEL PIPE ACCORDING TO PROJECT SPECIFICATIONS.



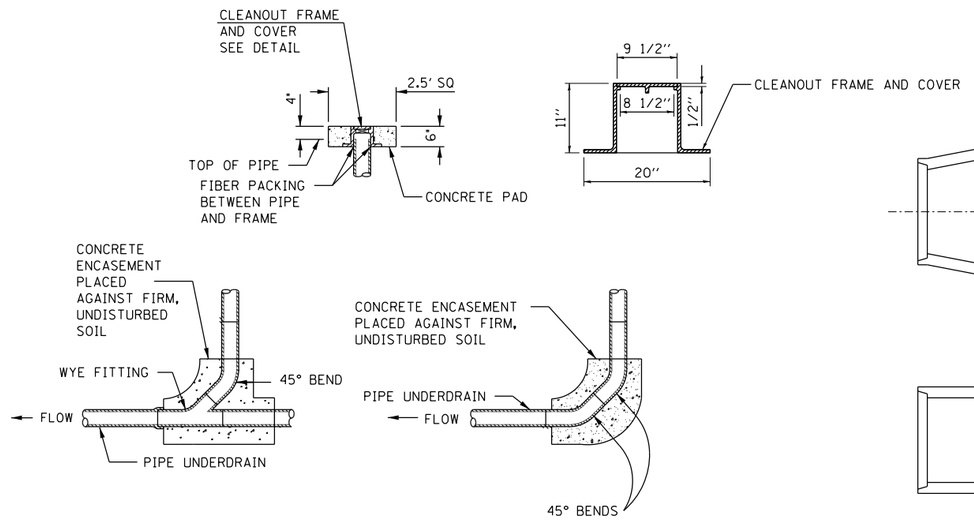
PLAN VIEW 9' DIAMETER SANITARY SEWER MH R280

SEE DETAIL B ON SHEET P&P - RELOCATED 48" DIAMETER SANITARY SEWER
NTS



SECTION 9' DIAMETER SANITARY SEWER MH R280

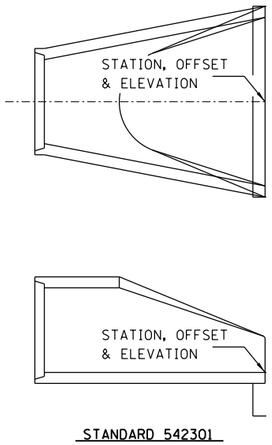
NTS



NOTE:
THE CONTRACT UNIT PRICE PIPE UNDERDRAIN FOR STRUCTURES SHALL INCLUDE THE BENDS AND RISER PIPE, CONCRETE ENCASEMENT, FRAME & COVER AND CONCRETE PAD.

PIPE UNDERDRAIN CLEANOUT

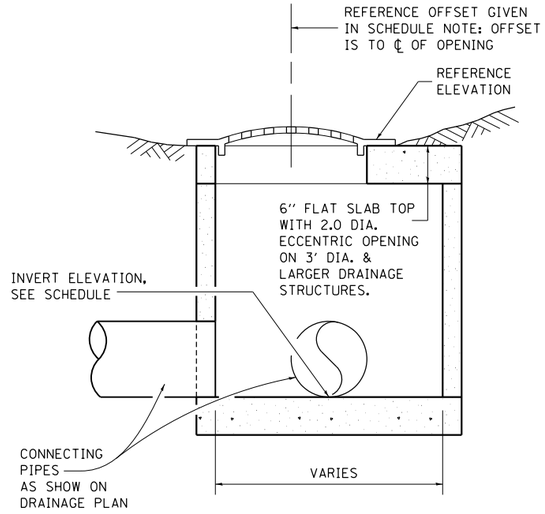
N.T.S.



STANDARD 542301

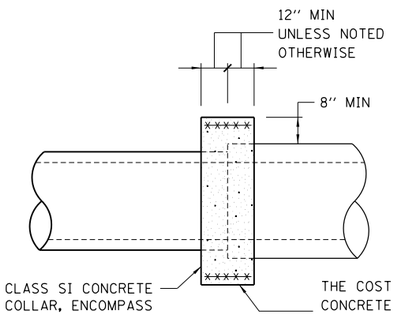
END SECTION OFFSET

N.T.S.



TYPICAL INLET TYPE A, INLET TYPE B OR MANHOLE TYPE A WITH TYPE 8 GRATE

N.T.S.



NOTE: CONCRETE COLLARS SHALL BE USED TO CONNECT SEWER TO EXISTING SEWER AND JACKED-IN-PLACE SEWER.

TYPICAL CONCRETE COLLAR DETAIL

N.T.S.

FINAL

FILE NAME = D609L0179B-sht-details-TRACK-001.dgn	USER NAME = Pop00275	DESIGNED - JWM	REVISED -
		DRAWN - CLG	REVISED -
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sheet1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRACK DRAINAGE & SEWER DETAILS – 1

SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	109
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		

SANITARY SEWER CONSTRUCTION PHASING
EXISTING SIXTH STREET \ PRINCETON AVE 48" DIAMETER SEWER RELOCATION

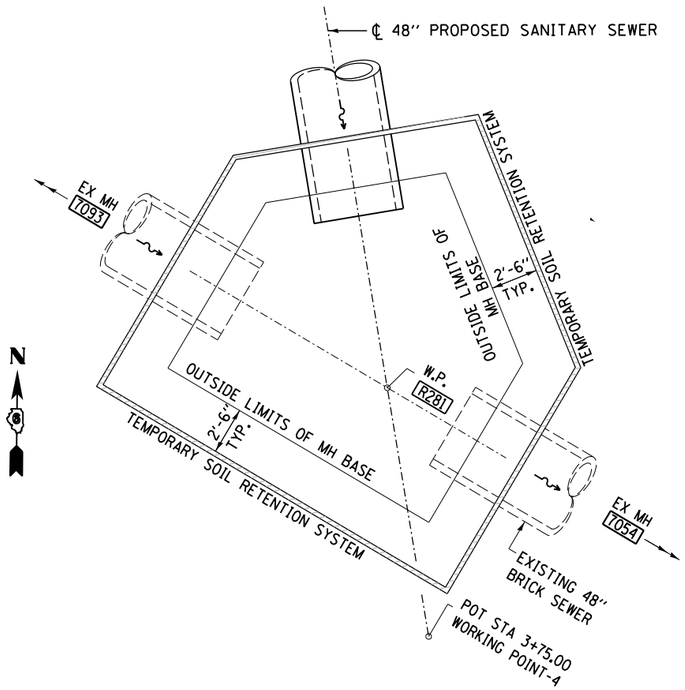
PHASE 1 -
CONSTRUCT SEWER JACKED IN PLACE, PIPE IN METAL LINER AND THOSE PORTIONS OF THE 48" SEWER EAST OF SIXTH STREET & WEST OF MANHOLE R281. MAINTAIN FLOW IN EXISTING SEWER. MAINTAIN A MINIMUM OF TWO LANES OF TRAFFIC ON SIXTH STREET.

PHASE 2 -
CONSTRUCT MANHOLE SPECIAL R281 WHILE MAINTAINING FLOW IN EXISTING SEWER. MAINTAIN A MINIMUM OF TWO LANES OF TRAFFIC ON SIXTH STREET. CONNECT NEW 48"Ø PIPE TO R281.

PHASE 3 -
CONSTRUCT ALL WORK IN SIXTH STREET DURING WEEKEND SHUTDOWN TO ERECT THE NSRR STRUCTURE OVER SIXTH STREET (SN084-9963)

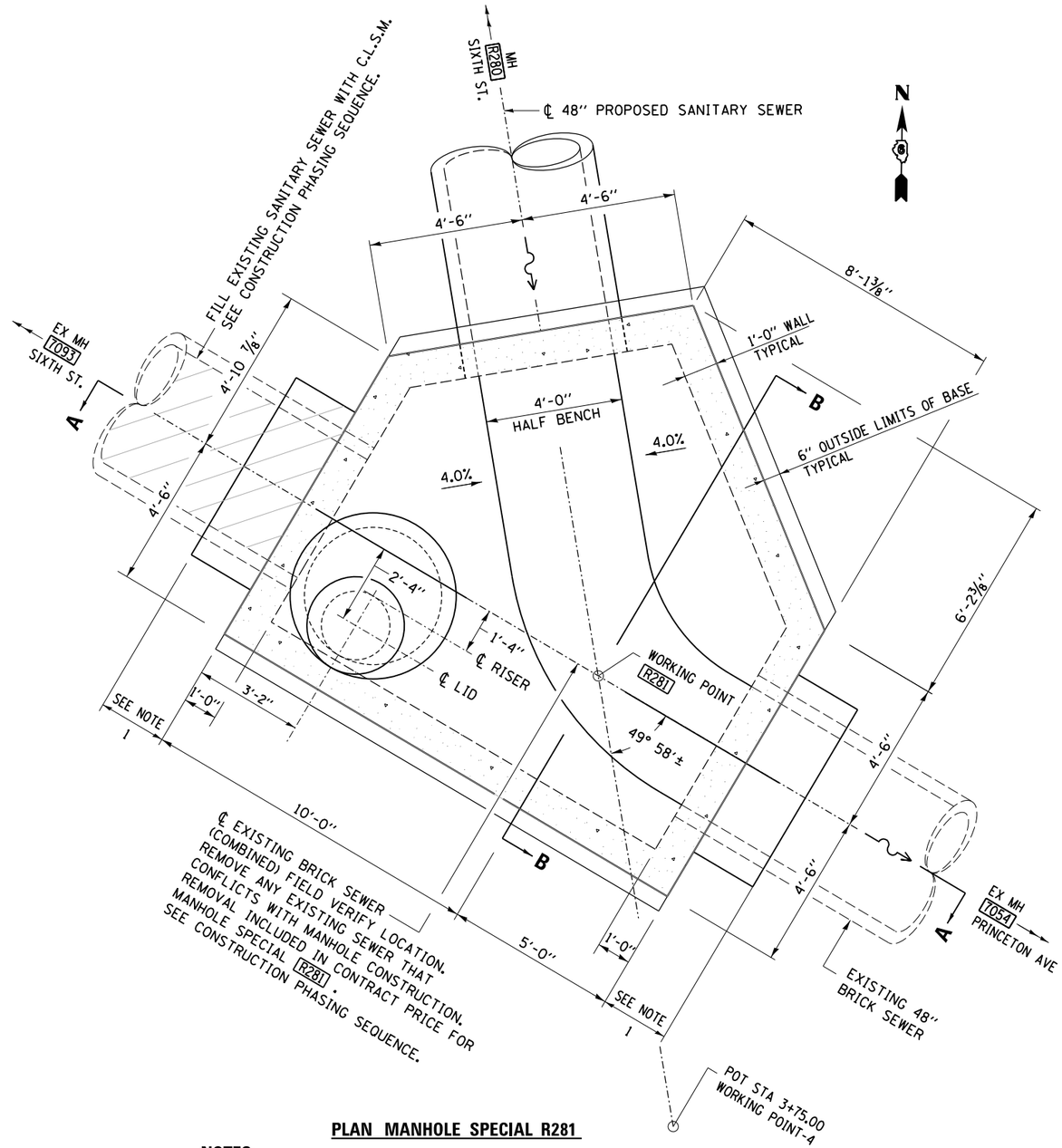
A) INSTALL 48" PIPE IN SIXTH STREET.
B) INSTALL MANHOLE R280 & DIVERT FLOW TO NEW 48"
C) INSTALL MANHOLE R282 & 12" PIPE TO CONNECT EXISTING INLETS TO R282.
D) IF NECESSARY, INSTALL MANHOLE R298 & 12" PIPE ACCORDING TO NOTE "G" ON PLANS

PHASE 4 -
PLUG EXISTING 48" WEST OUTLET PIPE AT MANHOLES R281 & FILL EXISTING PIPE FROM MANHOLE R280 TO MANHOLE R281 WITH C.L.S.M.



PLAN MANHOLE SPECIAL R281

A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEMS MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.



PLAN MANHOLE SPECIAL R281

NOTES:

1) CONSTRUCT 2'-0" WIDE CONCRETE COLLAR WITH 6x6 44.0xW4.0 WELDED WIRE REINFORCEMENT. STABILIZE EXISTING BRICK SEWER, ALLOWING THE REMOVAL AND RECONSTRUCTION OF ACTIVE SEWER.

2) SEE TRACK DRAINAGE & SEWER DETAILS -3 FOR SECTIONS A-A & B-B AND TOP SLAB PLAN.

HANSON

FINAL

FILE NAME = D609L0179B-sht-details-TRACK-001.dgn	USER NAME = Pop00275	DESIGNED - JWM	REVISED -
		DRAWN - CLG	REVISED -
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sheet2	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRACK DRAINAGE & SEWER DETAILS – 2

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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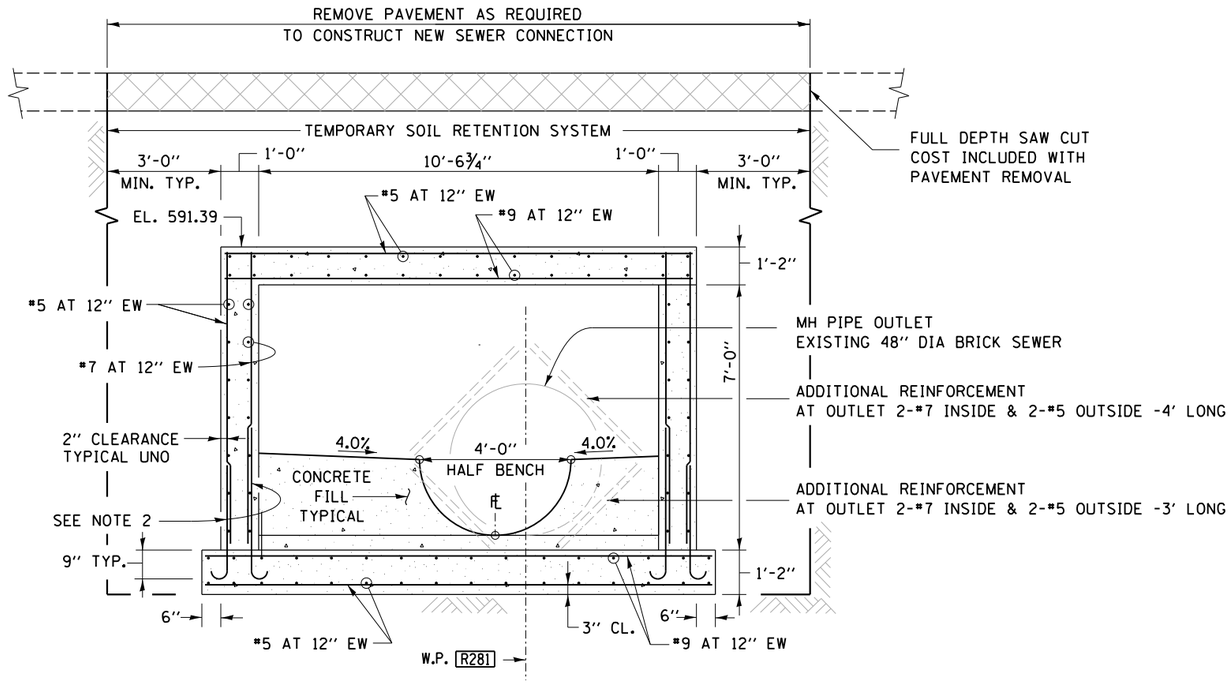
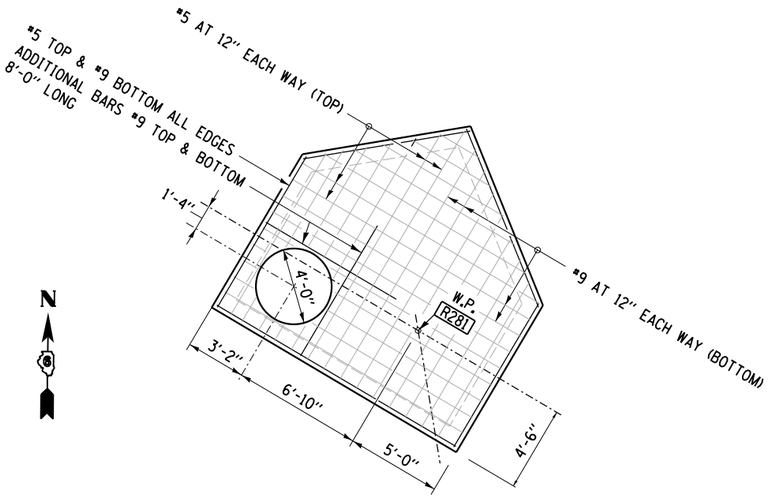
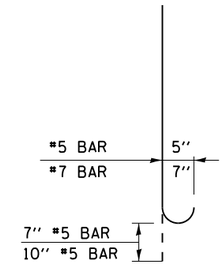
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



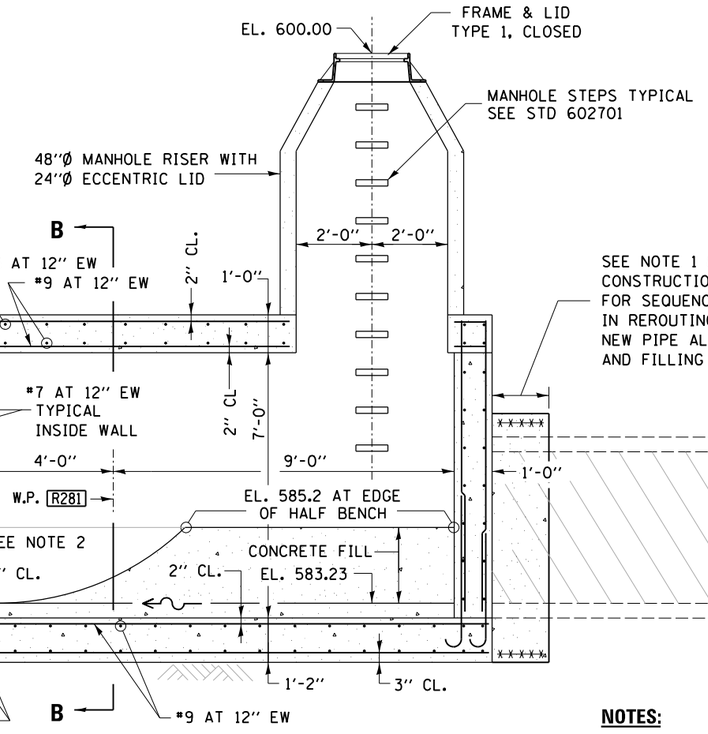
MANHOLE SPECIAL R281
SECTION B–B



PLAN MANHOLE SPECIAL R281
REINFORCEMENT PLAN AT TOP OF SLAB



BAR DETAIL
VERTICAL WALL REINFORCEMENT



MANHOLE SPECIAL R281
SECTION A–A

NOTES:

1) CONSTRUCT 2'-0" WIDE CONCRETE COLLAR WITH WELDED WIRE REINFORCEMENT, STABILIZE EXISTING BRICK SEWER, ALLOWING THE REMOVAL AND RECONSTRUCTION OF ACTIVE SEWER.

2) OPTIONAL BAR SPLICE
LAP * 5 = 2'-2"
OPTIONAL BAR SPLICE
LAP * 7 = 3'-5"

FINAL

FILE NAME = D609L0179B-sht-details-TRACK-001.dgn	USER NAME = Pop00275	DESIGNED - JWM	REVISED -
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sheet3	PLOT SCALE = 4.0000 ' / in.	CHECKED - JWM/MNM	REVISED -
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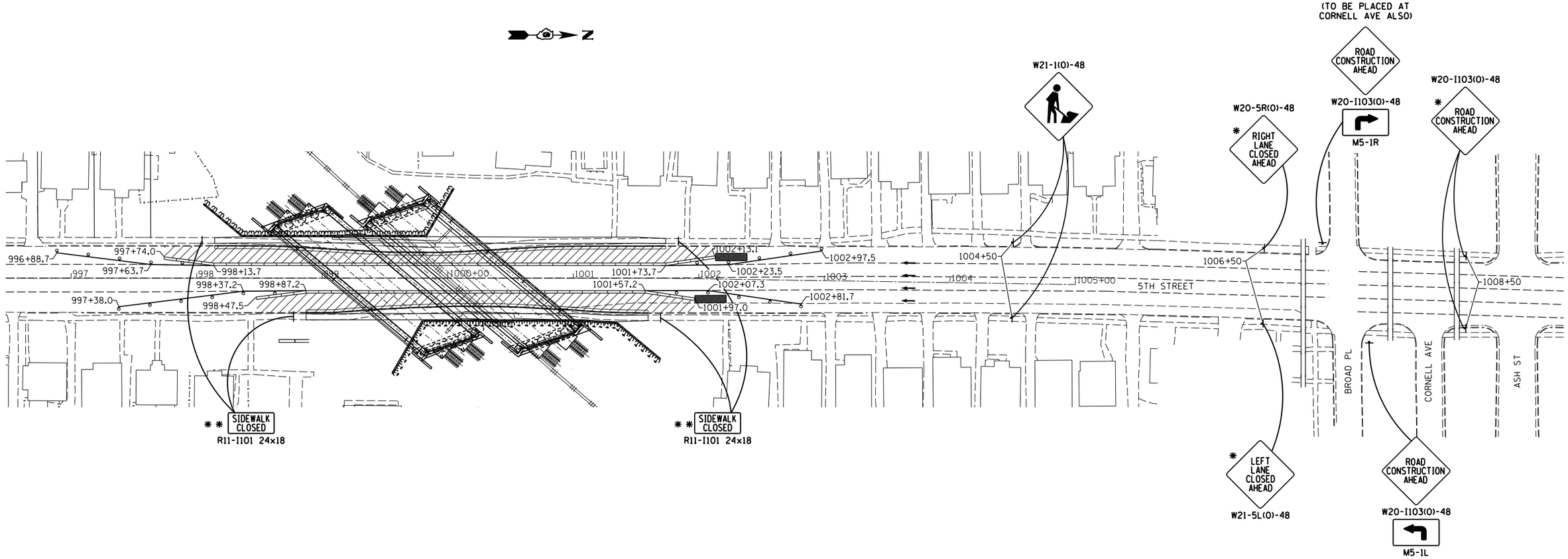
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRACK DRAINAGE & SEWER DETAILS – 3

SCALE: | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	111
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		



STAGING NOTE

TRAFFIC SHALL BE REDUCED TO TWO LANES FOR THE AMOUNT OF CALENDAR DAYS AS SPECIFIED IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. WHEN THE ALLOTTED TIME FOR THE TWO TWO LANE REDUCTION HAS EXPIRED, THEN ONE LINE OF TEMPORARY CONCRETE BARRIER WILL BE REMOVED AND THREE LANES OF TRAFFIC WILL BE OPENED TO TRAFFIC. THE CONTRACTOR AND ENGINEER SHALL DETERMINE WHICH LANE CAN BE OPENED THAT WILL NOT COMPROMISE THE SAFETY OF THE TRAVELLING PUBLIC.

- * - THESE SIGNS TO BE PLACED ON 5TH STREET PRIOR TO THE INTERSECTIONS OF LAUREL AND ASH STREETS ALSO. 200' SPACING BETWEEN SIGNS.
- ** - SIDEWALK DETOUR SIGN PLACEMENT IS SHOWN ON DETOUR SIGN AND BARRICADE LOCATION PLAN SHEETS.

SYMBOLS

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DRUM WITH STEADY BURNING LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- ARROW BOARD
- WORK AREA
- STEADY BURNING WARNING LIGHT

1. SIGNS TO BE SPACED AT 200'
2. CONES AT 25' CENTERS FOR 250'. ADDITIONAL CONES MAY BE PLACED AT 50' CENTERS. WHEN DRUMS OR TYPE I OR TYPE II BARRICADES ARE USED, THE INTERVAL BETWEEN DEVICES MAY BE DOUBLED.
3. CONES, DRUMS OR BARRICADES AT 20' IN TAPER.

5TH STREET STAGING

PLAN

0' 40' 80'

SCALE: 1" = 40'

DESIGNED
DRAWN
CHECKED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

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	DRAWN -	REVISED -
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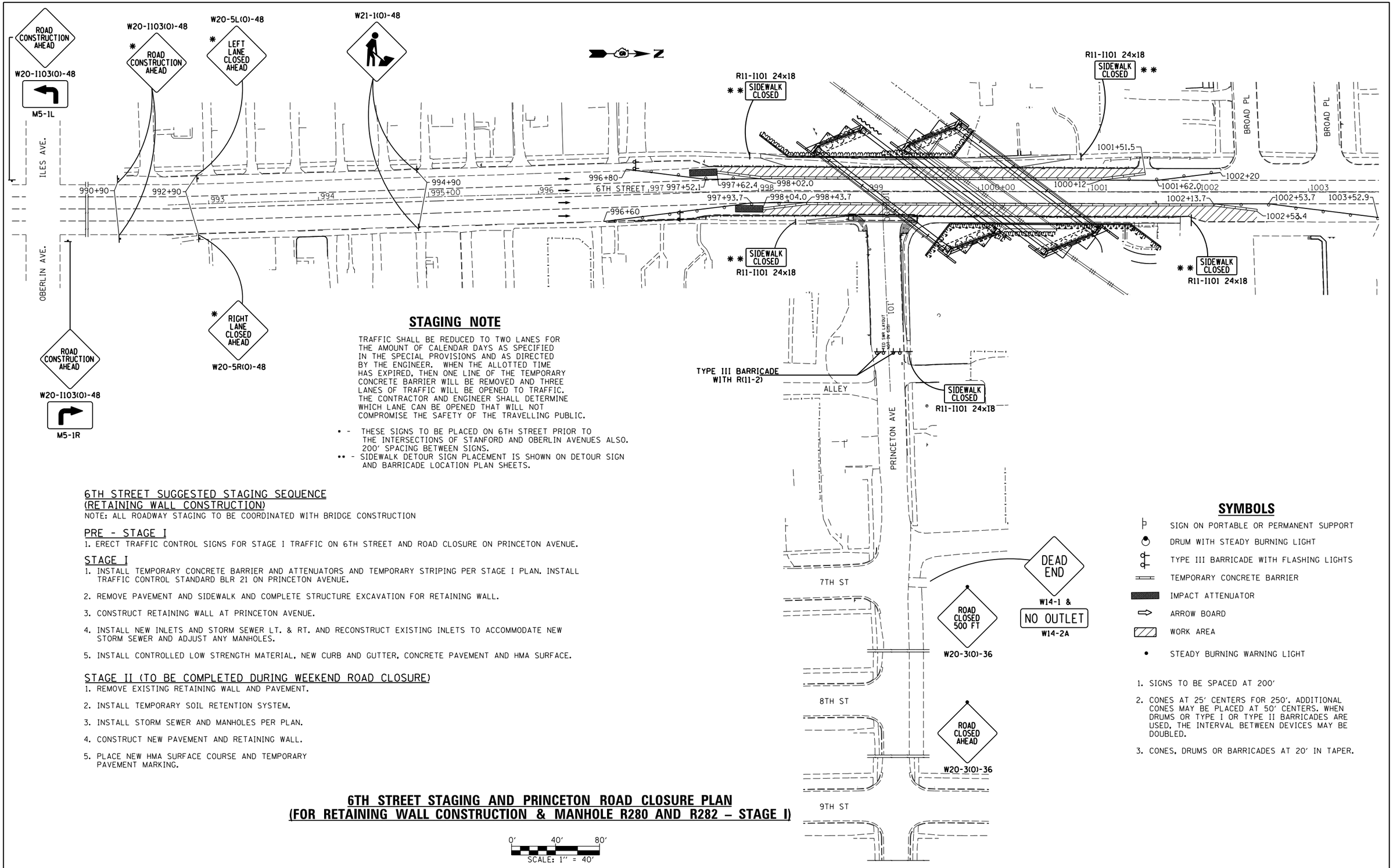
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRAFFIC CONTROL PLAN – 5TH STREET

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	112
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



STAGING NOTE

TRAFFIC SHALL BE REDUCED TO TWO LANES FOR THE AMOUNT OF CALENDAR DAYS AS SPECIFIED IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. WHEN THE ALLOTTED TIME HAS EXPIRED, THEN ONE LINE OF THE TEMPORARY CONCRETE BARRIER WILL BE REMOVED AND THREE LANES OF TRAFFIC WILL BE OPENED TO TRAFFIC. THE CONTRACTOR AND ENGINEER SHALL DETERMINE WHICH LANE CAN BE OPENED THAT WILL NOT COMPROMISE THE SAFETY OF THE TRAVELLING PUBLIC.

* - THESE SIGNS TO BE PLACED ON 6TH STREET PRIOR TO THE INTERSECTIONS OF STANFORD AND OBERLIN AVENUES ALSO. 200' SPACING BETWEEN SIGNS.

** - SIDEWALK DETOUR SIGN PLACEMENT IS SHOWN ON DETOUR SIGN AND BARRICADE LOCATION PLAN SHEETS.

6TH STREET SUGGESTED STAGING SEQUENCE (RETAINING WALL CONSTRUCTION)

NOTE: ALL ROADWAY STAGING TO BE COORDINATED WITH BRIDGE CONSTRUCTION

PRE - STAGE I

1. ERECT TRAFFIC CONTROL SIGNS FOR STAGE I TRAFFIC ON 6TH STREET AND ROAD CLOSURE ON PRINCETON AVENUE.

STAGE I

1. INSTALL TEMPORARY CONCRETE BARRIER AND ATTENUATORS AND TEMPORARY STRIPING PER STAGE I PLAN. INSTALL TRAFFIC CONTROL STANDARD BLR 21 ON PRINCETON AVENUE.
2. REMOVE PAVEMENT AND SIDEWALK AND COMPLETE STRUCTURE EXCAVATION FOR RETAINING WALL.
3. CONSTRUCT RETAINING WALL AT PRINCETON AVENUE.
4. INSTALL NEW INLETS AND STORM SEWER LT. & RT. AND RECONSTRUCT EXISTING INLETS TO ACCOMMODATE NEW STORM SEWER AND ADJUST ANY MANHOLES.
5. INSTALL CONTROLLED LOW STRENGTH MATERIAL, NEW CURB AND GUTTER, CONCRETE PAVEMENT AND HMA SURFACE.

STAGE II (TO BE COMPLETED DURING WEEKEND ROAD CLOSURE)

1. REMOVE EXISTING RETAINING WALL AND PAVEMENT.
2. INSTALL TEMPORARY SOIL RETENTION SYSTEM.
3. INSTALL STORM SEWER AND MANHOLES PER PLAN.
4. CONSTRUCT NEW PAVEMENT AND RETAINING WALL.
5. PLACE NEW HMA SURFACE COURSE AND TEMPORARY PAVEMENT MARKING.

SYMBOLS

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DRUM WITH STEADY BURNING LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- ARROW BOARD
- WORK AREA
- STEADY BURNING WARNING LIGHT

1. SIGNS TO BE SPACED AT 200'
2. CONES AT 25' CENTERS FOR 250'. ADDITIONAL CONES MAY BE PLACED AT 50' CENTERS. WHEN DRUMS OR TYPE I OR TYPE II BARRICADES ARE USED, THE INTERVAL BETWEEN DEVICES MAY BE DOUBLED.
3. CONES, DRUMS OR BARRICADES AT 20' IN TAPER.

6TH STREET STAGING AND PRINCETON ROAD CLOSURE PLAN (FOR RETAINING WALL CONSTRUCTION & MANHOLE R280 AND R282 – STAGE I)

DESIGNED | DRAWN | FINALED

Veenstra & Kimm, Inc.
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USER NAME = Pop00275	DESIGNED -	REVISED -
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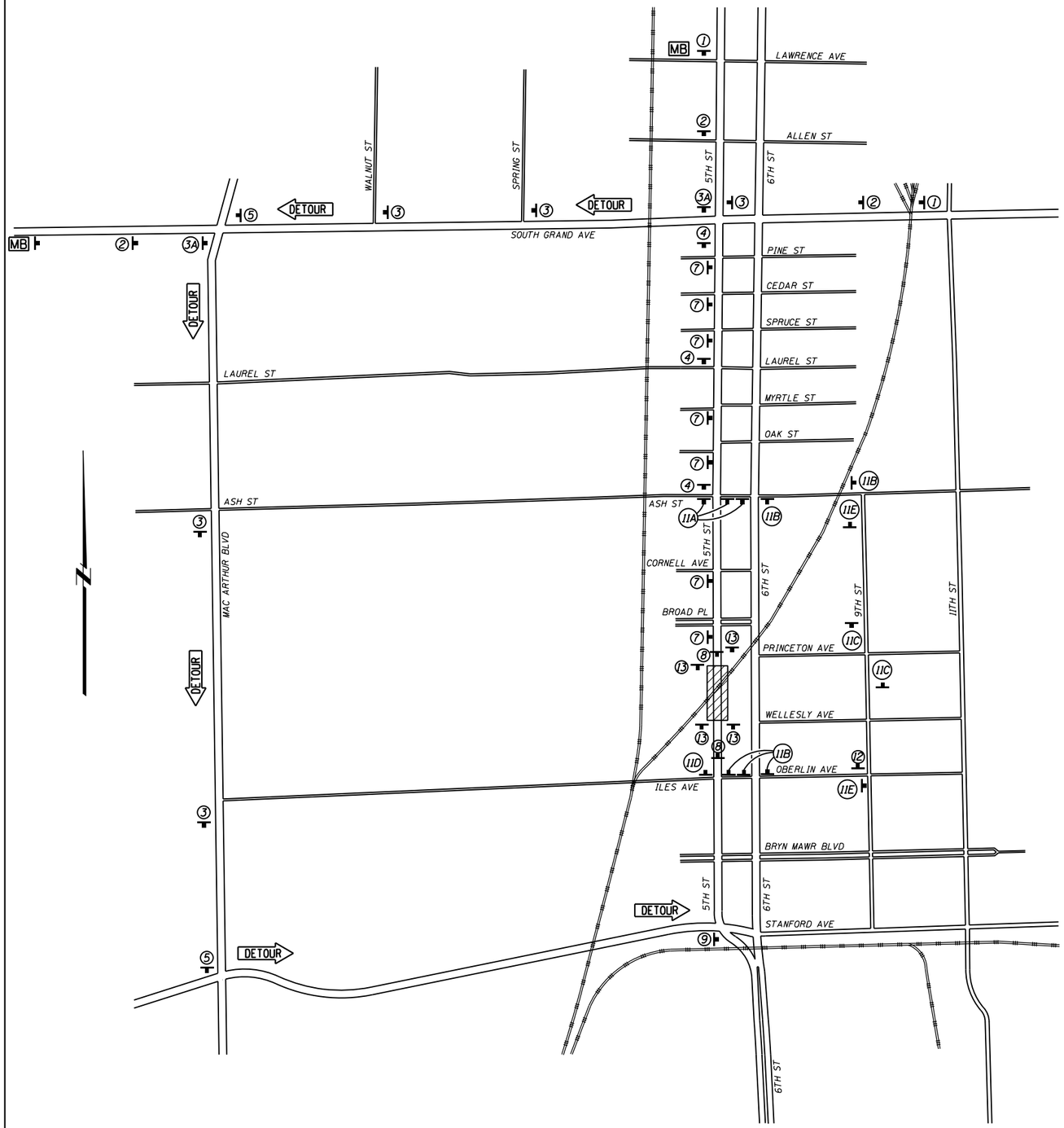
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRAFFIC CONTROL PLAN – 6TH STREET – STAGE I

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	113
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



- DENOTES WORK ZONE

5TH STREET DETOUR SIGN & BARRICADE LOCATION PLAN

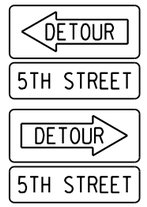
(1) CUSTOM DETOUR SIGN WITH ORANGE HI-REFLECTIVITY FIELD 48x48 BLACK BORDER AND LETTERING

(2) W20-2(0)-48

(3) M4-8(0) 30x15 WITH CUSTOM DETOUR STREET SIGN BLACK ON ORANGE 24x12

(3A) M4-8(0) 30x15 WITH CUSTOM DETOUR STREET SIGN BLACK ON ORANGE 24x12

(4) TYPE III BARRICADE WITH R11-3a 60X30

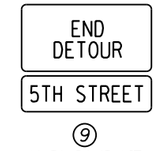


(5) M4-10R & M4-10L 48X18 WITH CUSTOM STREET SIGN BLACK ON ORANGE 24X12

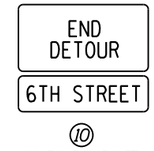
(6) M4-8(0) 30x15 WITH CUSTOM DETOUR STREET SIGN BLACK ON ORANGE 24x12

(7) R11-2 48x30 WITH M16-1 30x18

(8) TYPE III BARRICADE WITH R11-2 48x30



(9) M4-8A 24x18 WITH CUSTOM DETOUR STREET SIGN BLACK & ORANGE 24x12



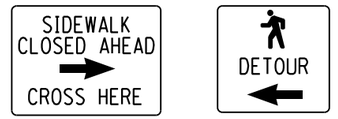
(10) M4-8A 24x18 WITH CUSTOM DETOUR STREET SIGN BLACK & ORANGE 24x12

(11) R11-1101 24x18 WITH M4-9BL OR M4-9BR

(11A) R9-11L

(11B) M4-9BR

(11C) M4-9B

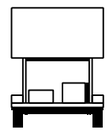


(11D) R9-11R

(11E) M4-9BL

(12) R11-1101 24x18 WITH M4-8

(13) R11-1101 24x18



MB PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

ALL SIGNS AND DEVICES SHOWN SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS. FURNISHING, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SIGNS AND DEVICES SHOWN SHALL BE PAID FOR AS DETOUR SIGNING.

TRAFFIC CONTROL IS AN INTEGRAL PART OF THE CONTRACTOR'S MEANS AND METHODS FOR COMPLETING THE WORK. THE REQUIREMENTS SET FORTH HEREIN PRESENT THE MINIMUM REQUIREMENTS FOR THE CONTROL & PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC. THE CONTRACTOR SHALL IMPLEMENT ALL ADDITIONAL MEASURES NECESSARY TO FULLY PROTECT PEDESTRIANS, VEHICLES AND THE CONTRACTOR'S WORK FORCE FROM THE CONTRACTOR'S WORK ACTIVITIES AND FROM PASSING TRAFFIC. FIELD MODIFICATION OF THE TRAFFIC CONTROL SCHEME DEPICTED IN THE TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.

ALL WORK SHOWN ON THIS SHEET FOR THE DETOUR WILL BE PAID FOR AT THE AT THE CONTRACT PRICE FOR DETOUR SIGNING.

TYPE 3 BARRICADES, ROAD CLOSED SIGNS & SIDEWALK CLOSED SIGNS WILL BE UTILIZED AND MAINTAINED BY THE CONTRACTOR TO PROTECT THE PUBLIC.

ALL DETOUR RELATED SIGNS SHALL HAVE AN ORANGE BACKGROUND.

DESIGNED
DRAWN
CHECKED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

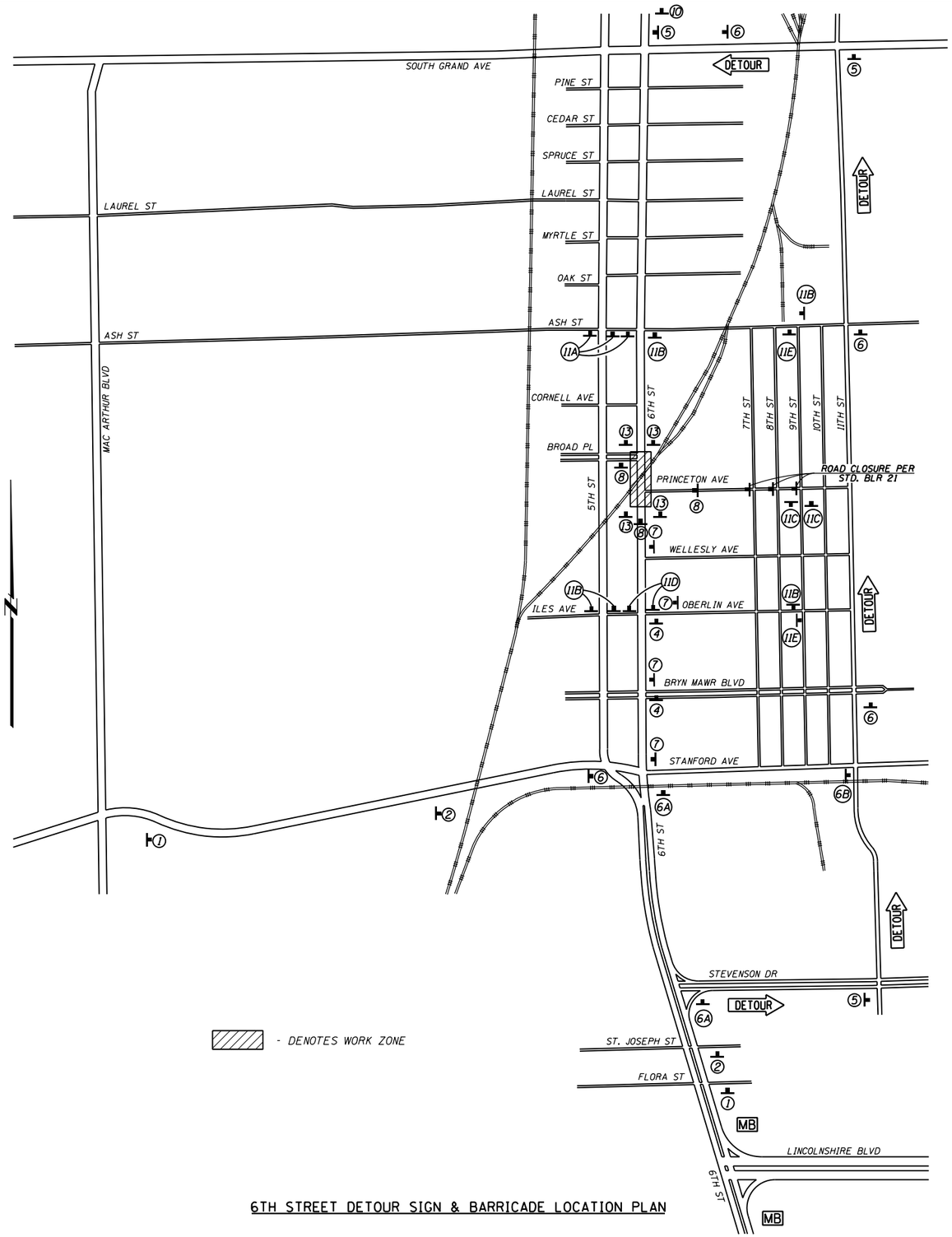
USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

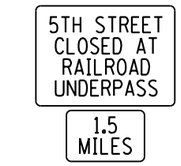
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRAFFIC DETOUR PLAN – 5TH STREET

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	114
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



6TH STREET DETOUR SIGN & BARRICADE LOCATION PLAN

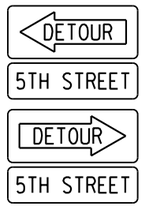


(1) CUSTOM DETOUR SIGN WITH ORANGE HI-REFLECTIVITY FIELD 48x48 BLACK BORDER AND LETTERING

(2) W20-2(0)-48

(3) M4-8(0) 30x15 WITH CUSTOM DETOUR STREET SIGN BLACK ON ORANGE 24x12

(4) TYPE III BARRICADE WITH R11-3a 60X30



(5) M4-10R & M4-10L 48X18 WITH CUSTOM STREET SIGN BLACK ON ORANGE 24X12

(6) M4-8(0) 30x15 WITH CUSTOM DETOUR STREET SIGN BLACK ON ORANGE 24x12

(6A) M4-8(0) 30x15 WITH CUSTOM DETOUR STREET SIGN BLACK ON ORANGE 24x12

(6B) M4-8(0) 30x15 WITH CUSTOM DETOUR STREET SIGN BLACK ON ORANGE 24x12

(7) R11-2 48x30 WITH M16-1 30x18

(8) TYPE III BARRICADE WITH R11-2 48x30

(9) M4-8A 24x18 WITH CUSTOM DETOUR STREET SIGN BLACK & ORANGE 24x12

(10) M4-8A 24x18 WITH CUSTOM DETOUR STREET SIGN BLACK & ORANGE 24x12

(11A) R9-11L

(11B) M4-9BR

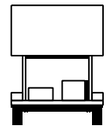
(11C) M4-9B

(11D) R9-11R

(11E) M4-9BL

(12) R11-1101 24x18 WITH M4-8

(13) R11-1101 24x18



MB
PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

ALL SIGNS AND DEVICES SHOWN SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS. FURNISHING, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SIGNS AND DEVICES SHOWN SHALL BE PAID FOR AS DETOUR SIGNING.

TRAFFIC CONTROL IS AN INTEGRAL PART OF THE CONTRACTOR'S MEANS AND METHODS FOR COMPLETING THE WORK. THE REQUIREMENTS SET FORTH HEREIN PRESENT THE MINIMUM REQUIREMENTS FOR THE CONTROL & PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC. THE CONTRACTOR SHALL IMPLEMENT ALL ADDITIONAL MEASURES NECESSARY TO FULLY PROTECT PEDESTRIANS, VEHICLES AND THE CONTRACTOR'S WORK FORCE FROM THE CONTRACTOR'S WORK ACTIVITIES AND FROM PASSING TRAFFIC. FIELD MODIFICATION OF THE TRAFFIC CONTROL SCHEME DEPICTED IN THE TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.

ALL WORK SHOWN ON THIS SHEET AND INCLUDING ANY OTHER WORK REQUIRED FOR THE DETOUR WILL BE PAID FOR AT THE CONTRACT PRICE FOR DETOUR SIGNING.

TYPE 3 BARRICADES, ROAD CLOSED SIGNS & SIDEWALK CLOSED SIGNS WILL BE UTILIZED AND MAINTAINED BY THE CONTRACTOR TO PROTECT THE PUBLIC.

ALL DETOUR RELATED SIGNS SHALL HAVE AN ORANGE BACKGROUND.

DESIGNED
DRAWN
PREPARED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

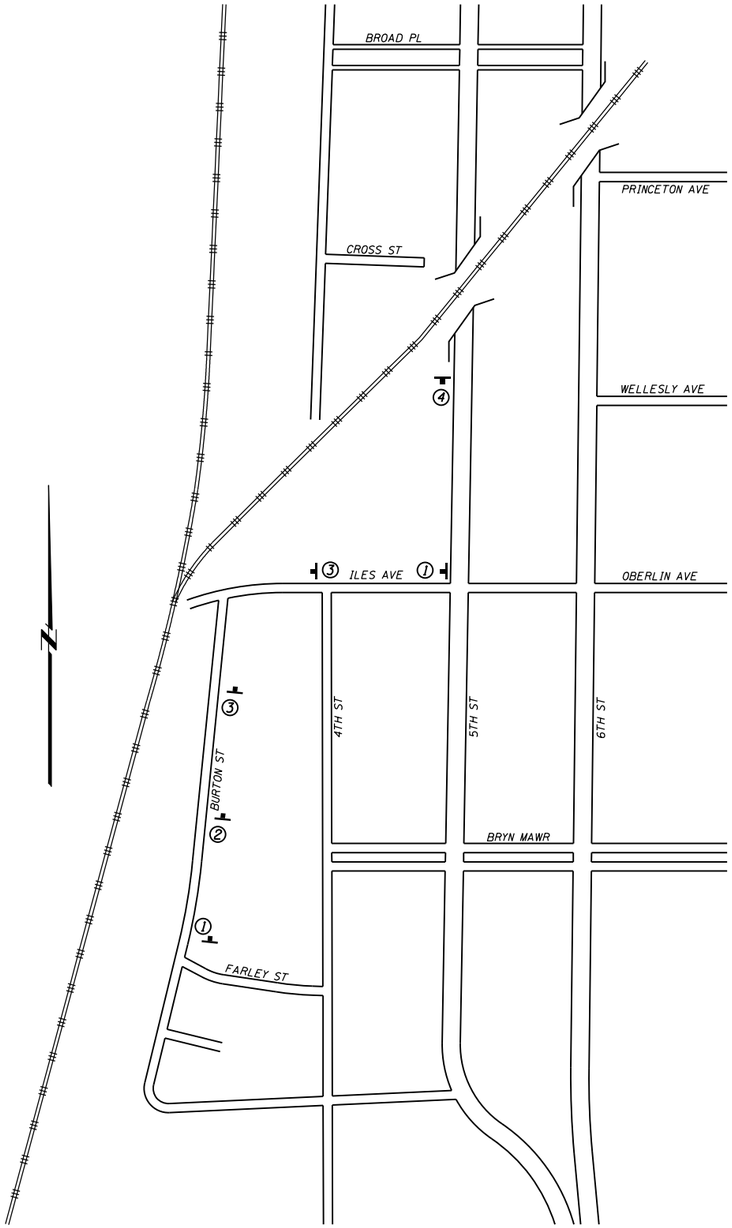
USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRAFFIC DETOUR PLAN – 6TH STREET

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	115
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



BURTON STREET AND ILES AVENUE SIGN & BARRICADE LOCATION PLAN

(1)
W20-3(0)-48

(2)
W20-3(0)-48

(3)
TYPE III BARRICADE
WITH R11-3b 60X30

(4)
W20-3(0)-48
WITH W5-1R 30x18

NOTES:

ALL SIGNS AND DEVICES SHOWN SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS. FURNISHING, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SIGNS AND DEVICES SHOWN SHALL BE PAID FOR AS DETOUR SIGNING.

TRAFFIC CONTROL IS AN INTEGRAL PART OF THE CONTRACTOR'S MEANS AND METHODS FOR COMPLETING THE WORK. THE REQUIREMENTS SET FORTH HEREIN PRESENT THE MINIMUM REQUIREMENTS FOR THE CONTROL & PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC. THE CONTRACTOR SHALL IMPLEMENT ALL ADDITIONAL MEASURES NECESSARY TO FULLY PROTECT PEDESTRIANS, VEHICLES AND THE CONTRACTOR'S WORK FORCE FROM THE CONTRACTOR'S WORK ACTIVITIES AND FROM PASSING TRAFFIC. FIELD MODIFICATION OF THE TRAFFIC CONTROL SCHEME DEPICTED IN THE TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.

ALL WORK SHOWN ON THIS SHEET AND INCLUDING ANY OTHER WORK REQUIRED FOR THE DETOUR WILL BE PAID FOR AT THE CONTRACT PRICE FOR DETOUR SIGNING.

TYPE 3 BARRICADES, ROAD CLOSED SIGNS & SIDEWALK CLOSED SIGNS WILL BE UTILIZED AND MAINTAINED BY THE CONTRACTOR TO PROTECT THE PUBLIC.

ALL DETOUR RELATED SIGNS SHALL HAVE AN ORANGE BACKGROUND.

DESIGNED
DRAWN
FINALIZED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

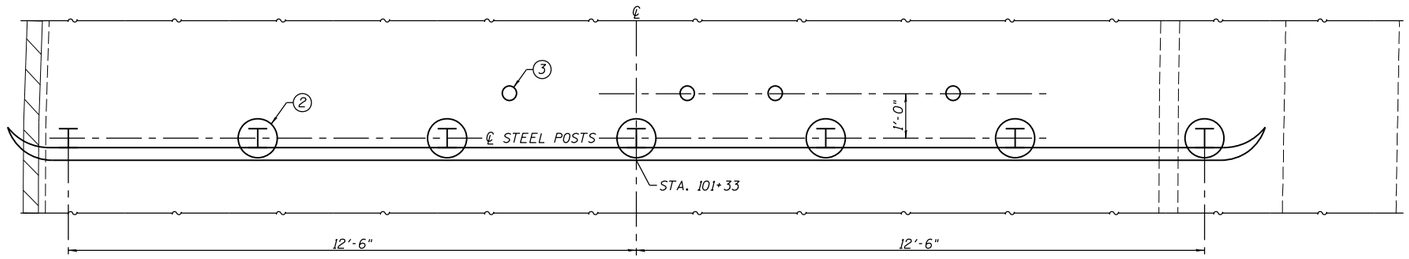
USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

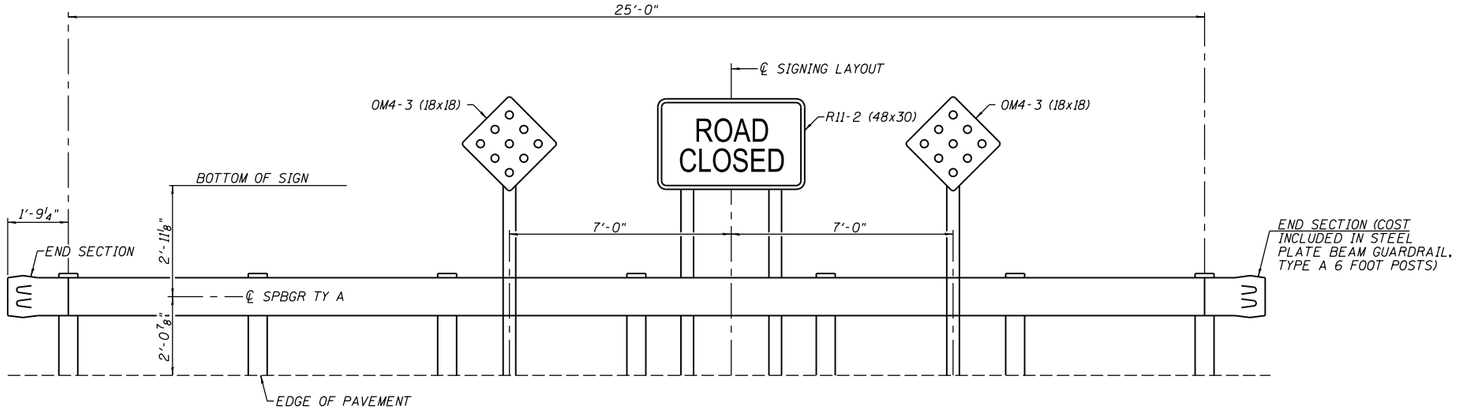
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRAFFIC DETOUR PLAN – BURTON DRIVE

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	116
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



PLAN VIEW - STEEL PLATE BEAM GUARDRAIL LOCATION
(FOR PRINCETON ROAD CLOSURE)



ROAD CLOSURE AT PRINCETON AVENUE
ELEVATION VIEW

1. LOCATION WILL BE VERIFIED WITH FIELD ENGINEER PRIOR TO PLACEMENT.
2. CORE 12" DIAMETER HOLE IN EXISTING PAVEMENT FOR GUARDRAIL POSTS. BACKFILL WITH AGGREGATE AND BRING FLUSH WITH EXISTING PAVEMENT WITH 2" THICK HMA MIXTURE. COST INCLUDED IN CONTRACT PRICE FOR SPBGR TYPE A.
3. CORE 6" DIAMETER HOLE IN EXISTING PAVEMENT FOR SIGN POSTS, BACKFILL WITH AGGREGATE AND BRING FLUSH WITH EXISTING PAVEMENT WITH 2" THICK HMA MIXTURE. COST INCLUDED IN COST OF SIGN PANEL ASSEMBLY.

DESIGNED
DRAWN
CHECKED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

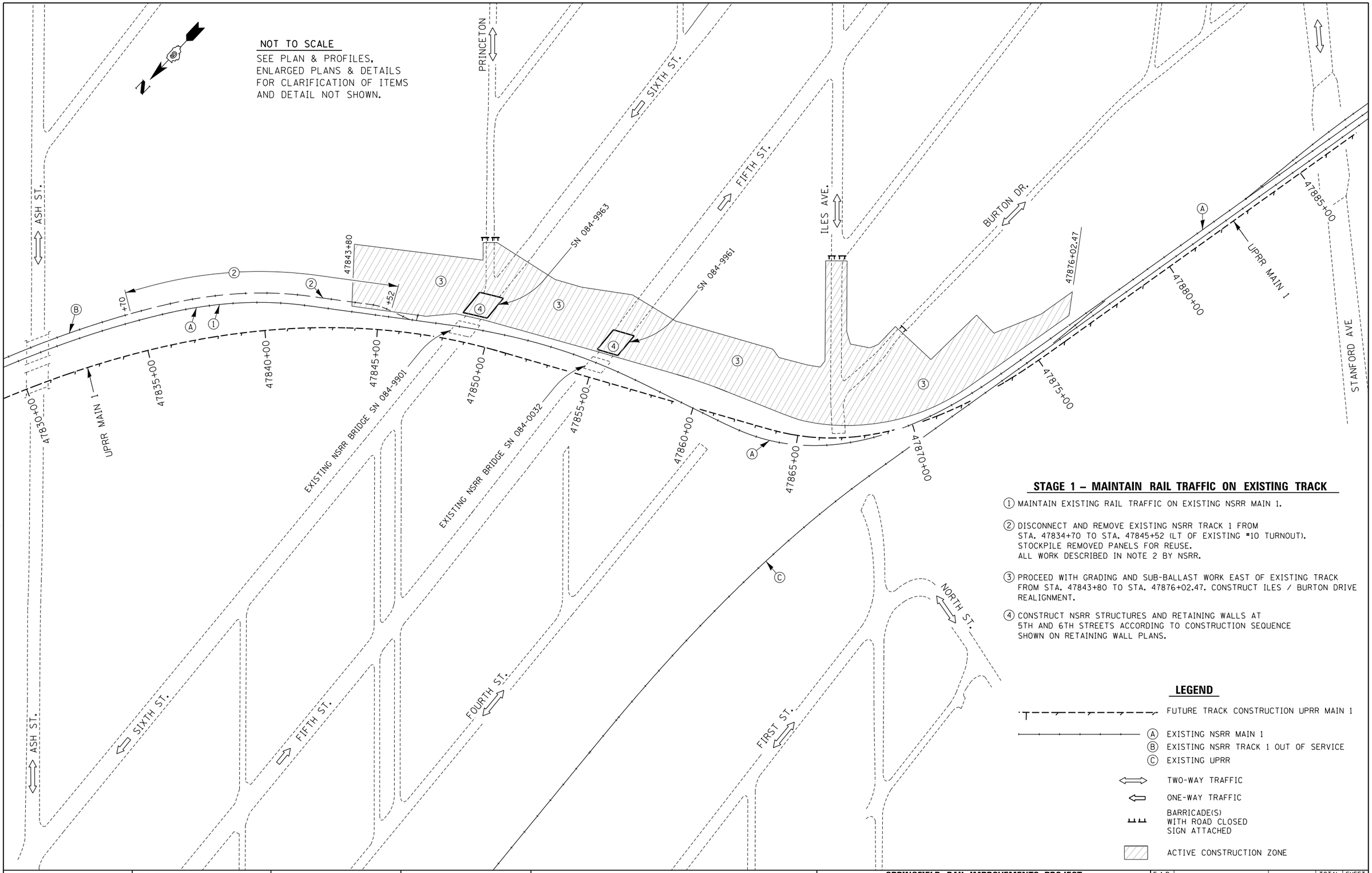
USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 4.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROADWAY CLOSURE DETAILS – PRINCETON AVE.

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	117
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



STAGE 1 – MAINTAIN RAIL TRAFFIC ON EXISTING TRACK

(1) MAINTAIN EXISTING RAIL TRAFFIC ON EXISTING NSRR MAIN 1.

(2) DISCONNECT AND REMOVE EXISTING NSRR TRACK 1 FROM STA. 47834+70 TO STA. 47845+52 (LT OF EXISTING #10 TURNOUT). STOCKPILE REMOVED PANELS FOR REUSE. ALL WORK DESCRIBED IN NOTE 2 BY NSRR.

(3) PROCEED WITH GRADING AND SUB-BALLAST WORK EAST OF EXISTING TRACK FROM STA. 47843+80 TO STA. 47876+02.47. CONSTRUCT ILES / BURTON DRIVE REALIGNMENT.

(4) CONSTRUCT NSRR STRUCTURES AND RETAINING WALLS AT 5TH AND 6TH STREETS ACCORDING TO CONSTRUCTION SEQUENCE SHOWN ON RETAINING WALL PLANS.

LEGEND

- FUTURE TRACK CONSTRUCTION UPRR MAIN 1
- (A) EXISTING NSRR MAIN 1
- (B) EXISTING NSRR TRACK 1 OUT OF SERVICE
- (C) EXISTING UPRR
- TWO-WAY TRAFFIC
- ONE-WAY TRAFFIC
- BARRICADE(S) WITH ROAD CLOSED SIGN ATTACHED
- ACTIVE CONSTRUCTION ZONE

HANSON

FINAL

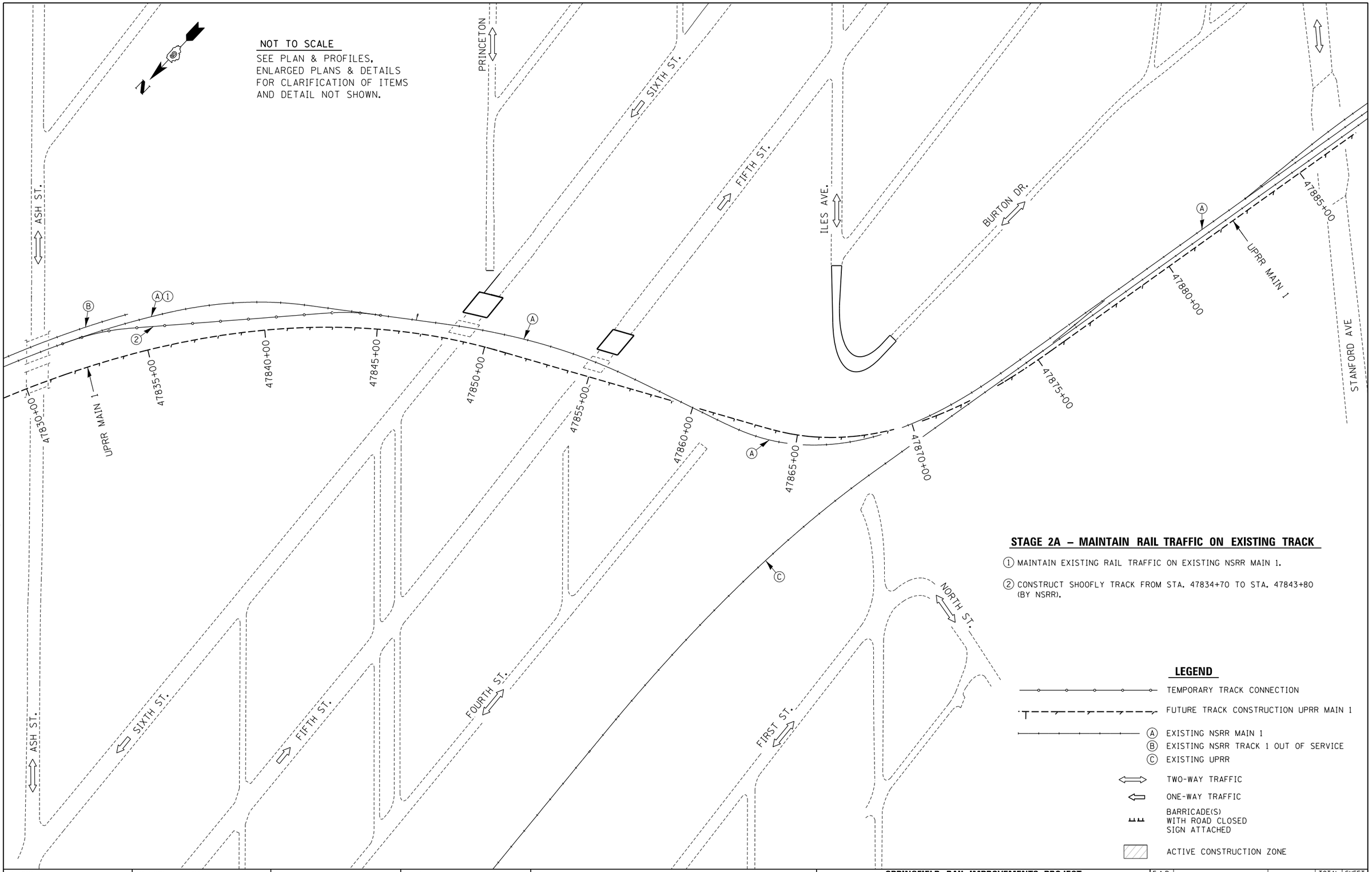
FILE NAME = D609L0179B-Staging_Plans-USIV.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
USIV_PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
STAGING PLAN – TRACK – 1

SCALE: | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	118
	O9L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



STAGE 2A – MAINTAIN RAIL TRAFFIC ON EXISTING TRACK

(1) MAINTAIN EXISTING RAIL TRAFFIC ON EXISTING NSRR MAIN 1.

(2) CONSTRUCT SHOOFLY TRACK FROM STA. 47834+70 TO STA. 47843+80 (BY NSRR).

LEGEND

- TEMPORARY TRACK CONNECTION
- FUTURE TRACK CONSTRUCTION UPRR MAIN 1
- (A) EXISTING NSRR MAIN 1
- (B) EXISTING NSRR TRACK 1 OUT OF SERVICE
- (C) EXISTING UPRR
- TWO-WAY TRAFFIC
- ONE-WAY TRAFFIC
- BARRICADE(S) WITH ROAD CLOSED SIGN ATTACHED
- ACTIVE CONSTRUCTION ZONE

HANSON

FINAL

FILE NAME = D609L0179B-Staging_Plans-USIV.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
USIV_PLAN2	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
STAGING PLAN – TRACK – 2

SCALE: | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	119
	O9L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

HANSON

NOT TO SCALE

SEE PLAN & PROFILES, ENLARGED PLANS & DETAILS FOR CLARIFICATION OF ITEMS AND DETAIL NOT SHOWN.

ASH ST.
PRINCETON
SIXTH ST.
FIFTH ST.
ILES AVE.
BURTON DR.
STANFORD AVE
NORTH ST.
FOURTH ST.
FIRST ST.
UPRR MAIN 1
47830+00
47835+00
47840+00
47845+00
47850+00
47855+00
47860+00
47865+00
47870+00
47875+00
47880+00
47885+00

STAGE 2B – SHIFT RAIL TRAFFIC FROM EXISTING TRACK TO SHOOFLY

(1) SHIFT RAIL TRAFFIC TO NSRR SHOOFLY (BY NSRR)
(2) TRACK CUTOVER (BY NSRR)

LEGEND

- TEMPORARY TRACK CONNECTION
- FUTURE TRACK CONSTRUCTION UPRR MAIN 1
- (A) EXISTING NSRR MAIN 1
- (B) EXISTING NSRR TRACK 1 OUT OF SERVICE
- (C) EXISTING UPRR
- TWO-WAY TRAFFIC
- ONE-WAY TRAFFIC
- BARRICADE(S) WITH ROAD CLOSED SIGN ATTACHED
- ACTIVE CONSTRUCTION ZONE

FINAL

FILE NAME = D609L0179B-Staging_Plans-USIV.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
USIV_PLAN3	PLOT SCALE = 400.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
STAGING PLAN – TRACK – 3

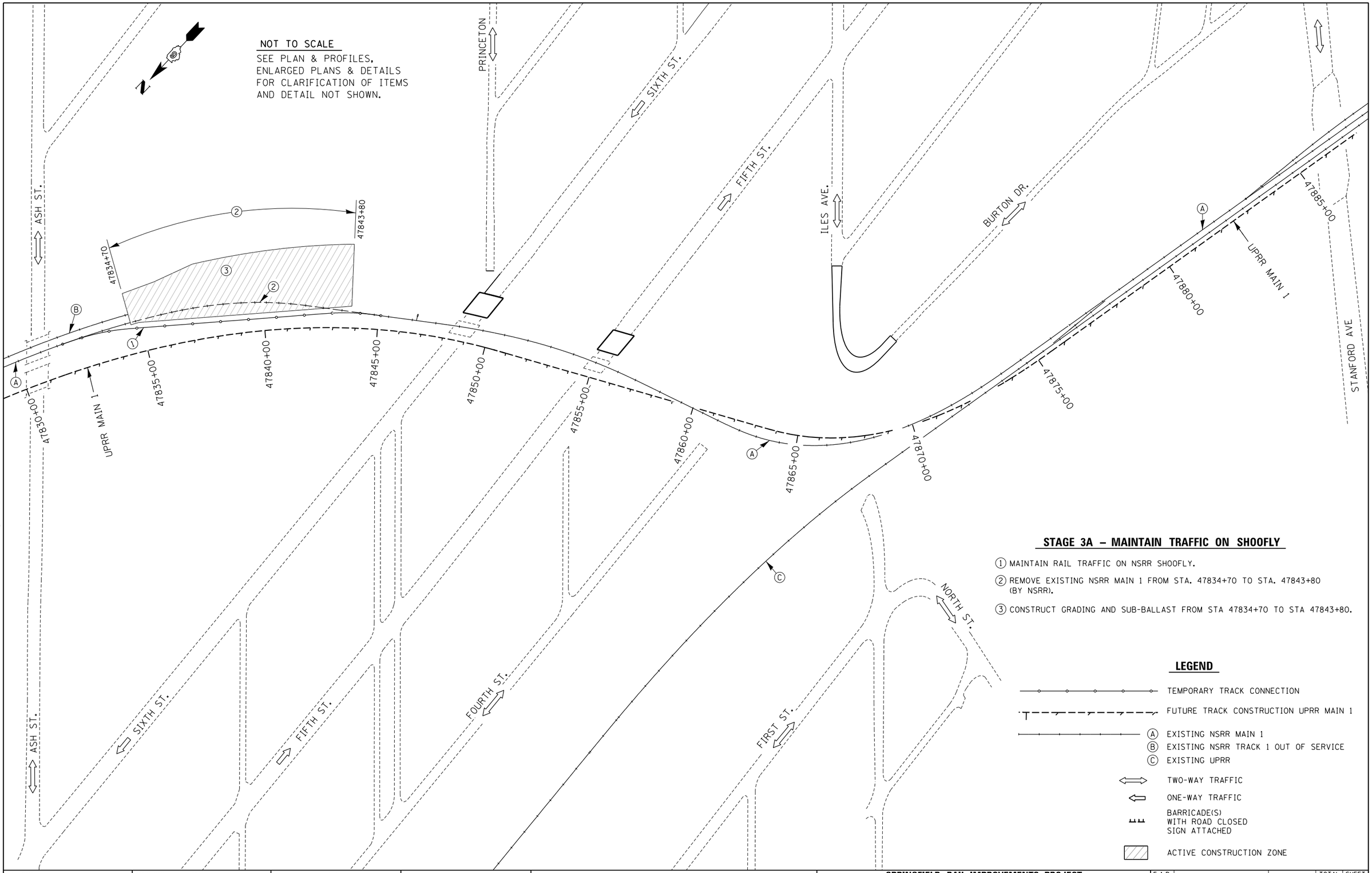
SCALE: | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	120
	O9L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

HANSON

NOT TO SCALE

SEE PLAN & PROFILES, ENLARGED PLANS & DETAILS FOR CLARIFICATION OF ITEMS AND DETAIL NOT SHOWN.



STAGE 3A – MAINTAIN TRAFFIC ON SHOOFLY

(1) MAINTAIN RAIL TRAFFIC ON NSRR SHOOFLY.

(2) REMOVE EXISTING NSRR MAIN 1 FROM STA. 47834+70 TO STA. 47843+80 (BY NSRR).

(3) CONSTRUCT GRADING AND SUB-BALLAST FROM STA 47834+70 TO STA 47843+80.

LEGEND

- TEMPORARY TRACK CONNECTION
- FUTURE TRACK CONSTRUCTION UPRR MAIN 1
- (A) EXISTING NSRR MAIN 1
- (B) EXISTING NSRR TRACK 1 OUT OF SERVICE
- (C) EXISTING UPRR
- TWO-WAY TRAFFIC
- ONE-WAY TRAFFIC
- BARRICADE(S) WITH ROAD CLOSED SIGN ATTACHED
- ACTIVE CONSTRUCTION ZONE

FINAL

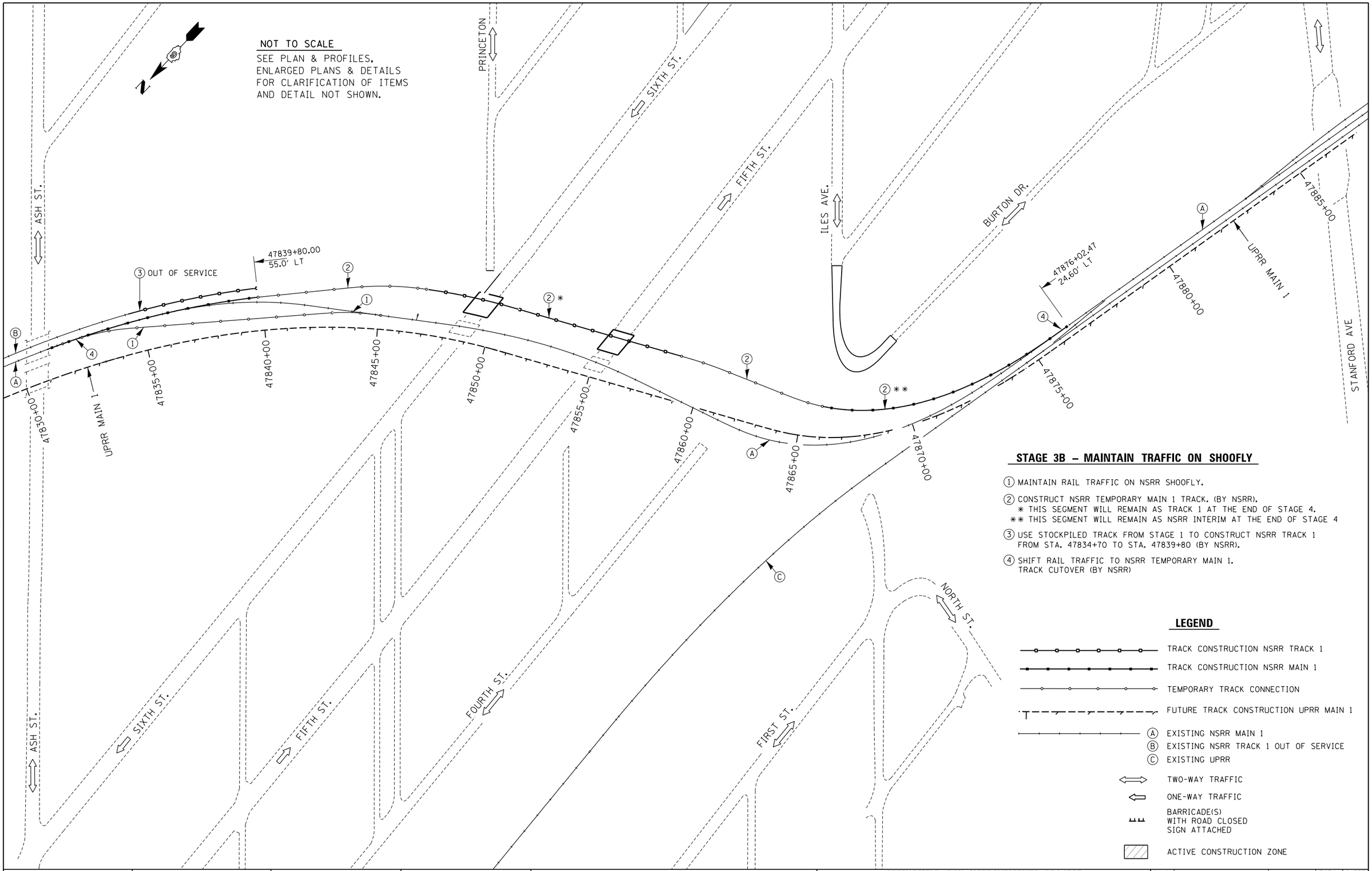
FILE NAME = D609L0179B-Staging_Plans-USIV.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
USIV_PLAN4	PLOT SCALE = 400.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
STAGING PLAN – TRACK – 4

SCALE: | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	121
	O9L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



STAGE 3B – MAINTAIN TRAFFIC ON SHOOFLY

1. MAINTAIN RAIL TRAFFIC ON NSRR SHOOFLY.
2. CONSTRUCT NSRR TEMPORARY MAIN 1 TRACK. (BY NSRR).
   * THIS SEGMENT WILL REMAIN AS TRACK 1 AT THE END OF STAGE 4.
   ** THIS SEGMENT WILL REMAIN AS NSRR INTERIM AT THE END OF STAGE 4
3. USE STOCKPILED TRACK FROM STAGE 1 TO CONSTRUCT NSRR TRACK 1 FROM STA. 47834+70 TO STA. 47839+80 (BY NSRR).
4. SHIFT RAIL TRAFFIC TO NSRR TEMPORARY MAIN 1. TRACK CUTOVER (BY NSRR)

LEGEND

- TRACK CONSTRUCTION NSRR TRACK 1
- TRACK CONSTRUCTION NSRR MAIN 1
- TEMPORARY TRACK CONNECTION
- FUTURE TRACK CONSTRUCTION UPRR MAIN 1
- (A) EXISTING NSRR MAIN 1
- (B) EXISTING NSRR TRACK 1 OUT OF SERVICE
- (C) EXISTING UPRR
- TWO-WAY TRAFFIC
- ONE-WAY TRAFFIC
- BARRICADE(S) WITH ROAD CLOSED SIGN ATTACHED
- ACTIVE CONSTRUCTION ZONE

FINAL

FILE NAME = D609L0179B-Staging_Plans-USIV.dgn USIV_PLAN5	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

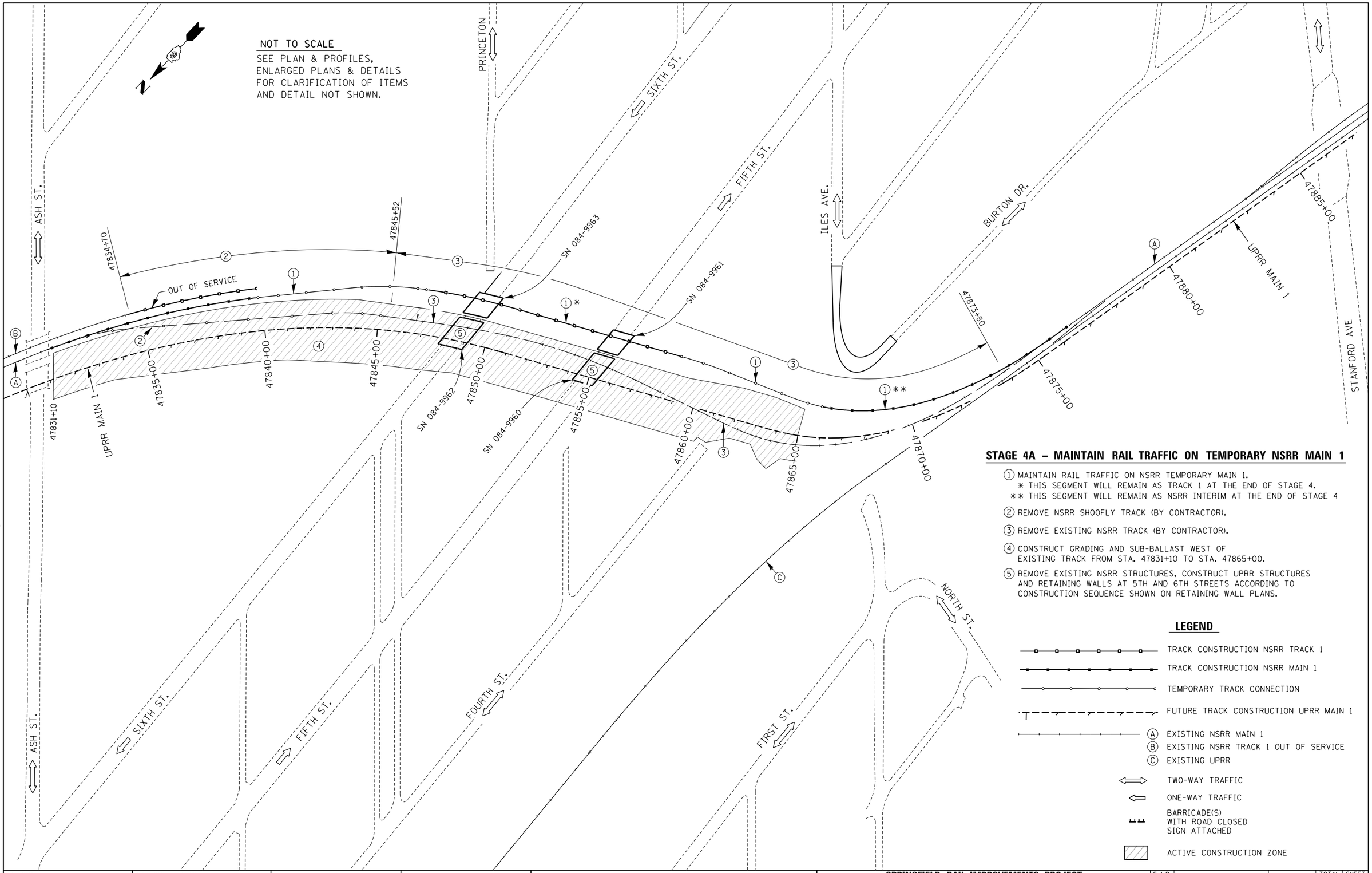
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
STAGING PLAN – TRACK – 5

SCALE: | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	122
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

NOT TO SCALE

SEE PLAN & PROFILES, ENLARGED PLANS & DETAILS FOR CLARIFICATION OF ITEMS AND DETAIL NOT SHOWN.



STAGE 4A – MAINTAIN RAIL TRAFFIC ON TEMPORARY NSRR MAIN 1

(1) MAINTAIN RAIL TRAFFIC ON NSRR TEMPORARY MAIN 1.
* THIS SEGMENT WILL REMAIN AS TRACK 1 AT THE END OF STAGE 4.
** THIS SEGMENT WILL REMAIN AS NSRR INTERIM AT THE END OF STAGE 4

(2) REMOVE NSRR SHOOFLY TRACK (BY CONTRACTOR).

(3) REMOVE EXISTING NSRR TRACK (BY CONTRACTOR).

(4) CONSTRUCT GRADING AND SUB-BALLAST WEST OF EXISTING TRACK FROM STA. 47831+10 TO STA. 47865+00.

(5) REMOVE EXISTING NSRR STRUCTURES, CONSTRUCT UPRR STRUCTURES AND RETAINING WALLS AT 5TH AND 6TH STREETS ACCORDING TO CONSTRUCTION SEQUENCE SHOWN ON RETAINING WALL PLANS.

LEGEND

- TRACK CONSTRUCTION NSRR TRACK 1
- TRACK CONSTRUCTION NSRR MAIN 1
- TEMPORARY TRACK CONNECTION
- FUTURE TRACK CONSTRUCTION UPRR MAIN 1
- (A) EXISTING NSRR MAIN 1
- (B) EXISTING NSRR TRACK 1 OUT OF SERVICE
- (C) EXISTING UPRR
- TWO-WAY TRAFFIC
- ONE-WAY TRAFFIC
- BARRICADE(S) WITH ROAD CLOSED SIGN ATTACHED
- ACTIVE CONSTRUCTION ZONE

HANSON

FINAL

FILE NAME = D609L0179B-Staging_Plans-USIV.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
USIV_PLAN6	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

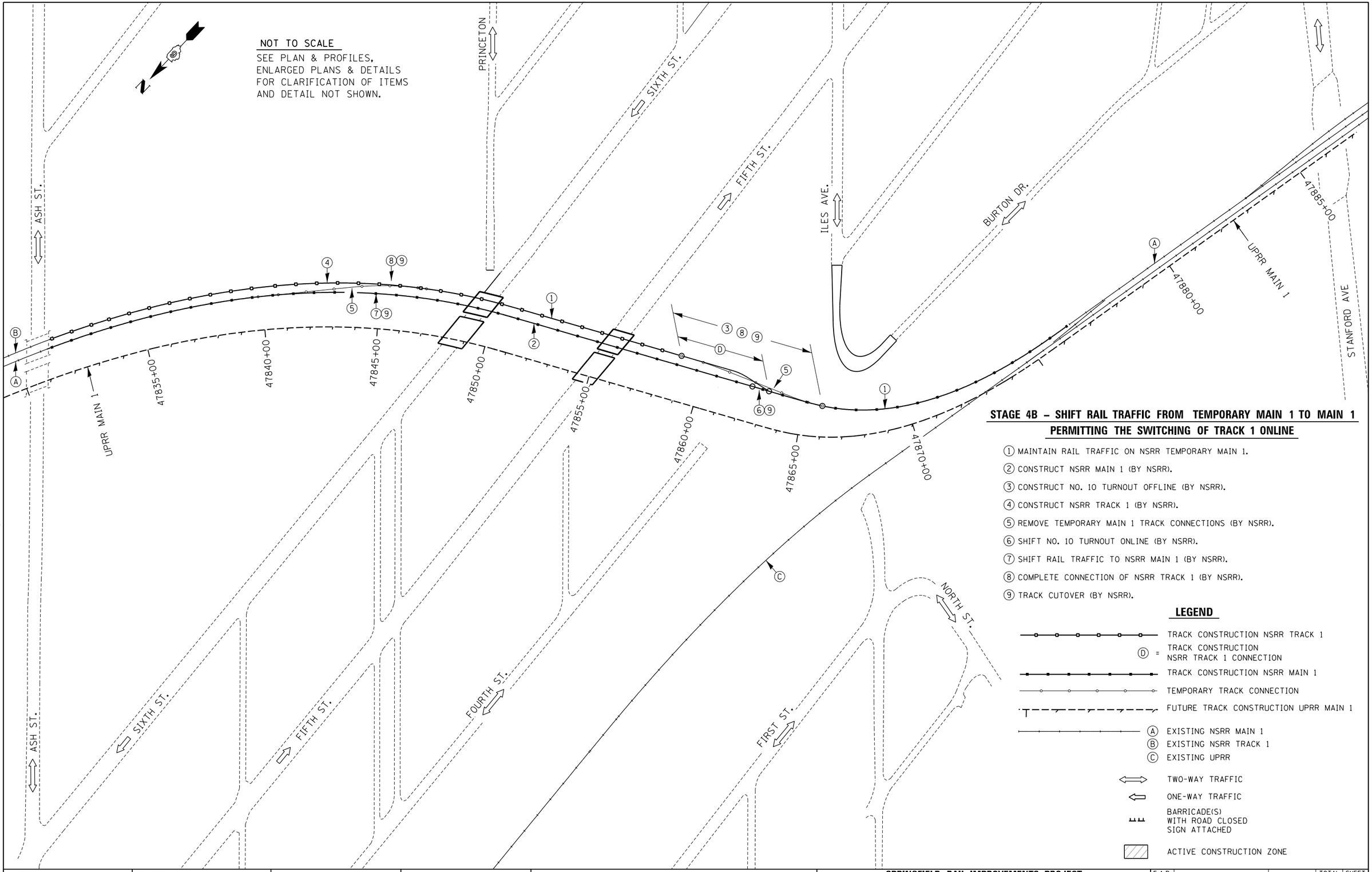
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
STAGING PLAN – TRACK – 6

SCALE: | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	123
	O9L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

NOT TO SCALE

SEE PLAN & PROFILES, ENLARGED PLANS & DETAILS FOR CLARIFICATION OF ITEMS AND DETAIL NOT SHOWN.



STAGE 4B – SHIFT RAIL TRAFFIC FROM TEMPORARY MAIN 1 TO MAIN 1 PERMITTING THE SWITCHING OF TRACK 1 ONLINE

(1) MAINTAIN RAIL TRAFFIC ON NSRR TEMPORARY MAIN 1.
(2) CONSTRUCT NSRR MAIN 1 (BY NSRR).
(3) CONSTRUCT NO. 10 TURNOUT OFFLINE (BY NSRR).
(4) CONSTRUCT NSRR TRACK 1 (BY NSRR).
(5) REMOVE TEMPORARY MAIN 1 TRACK CONNECTIONS (BY NSRR).
(6) SHIFT NO. 10 TURNOUT ONLINE (BY NSRR).
(7) SHIFT RAIL TRAFFIC TO NSRR MAIN 1 (BY NSRR).
(8) COMPLETE CONNECTION OF NSRR TRACK 1 (BY NSRR).
(9) TRACK CUTOVER (BY NSRR).

LEGEND

- TRACK CONSTRUCTION NSRR TRACK 1
- (D) = TRACK CONSTRUCTION NSRR TRACK 1 CONNECTION
- TRACK CONSTRUCTION NSRR MAIN 1
- TEMPORARY TRACK CONNECTION
- FUTURE TRACK CONSTRUCTION UPRR MAIN 1
- (A) EXISTING NSRR MAIN 1
- (B) EXISTING NSRR TRACK 1
- (C) EXISTING UPRR
- TWO-WAY TRAFFIC
- ONE-WAY TRAFFIC
- BARRICADE(S) WITH ROAD CLOSED SIGN ATTACHED
- ACTIVE CONSTRUCTION ZONE

FINAL

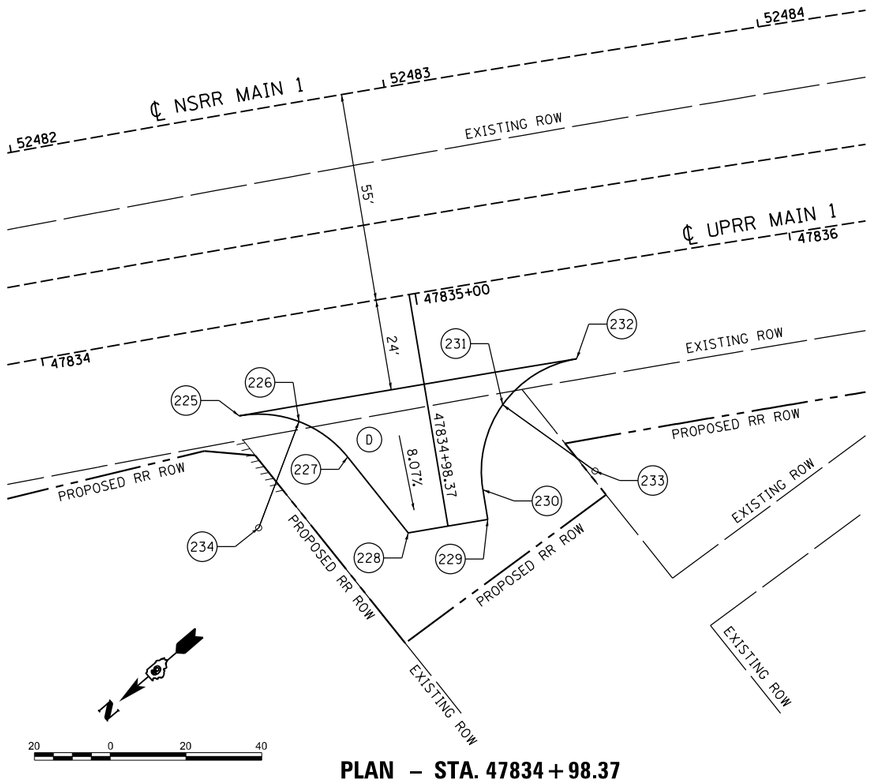
FILE NAME = D609L0179B-Staging_Plans-USIV.dgn USIV_PLAN7	USER NAME = Pop00275 PLOT SCALE = 400.0000 ' / in. PLOT DATE = 4/10/2019	DESIGNED - GCN DRAWN - CLG CHECKED - JWM/GCN DATE - 03/15/2019	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

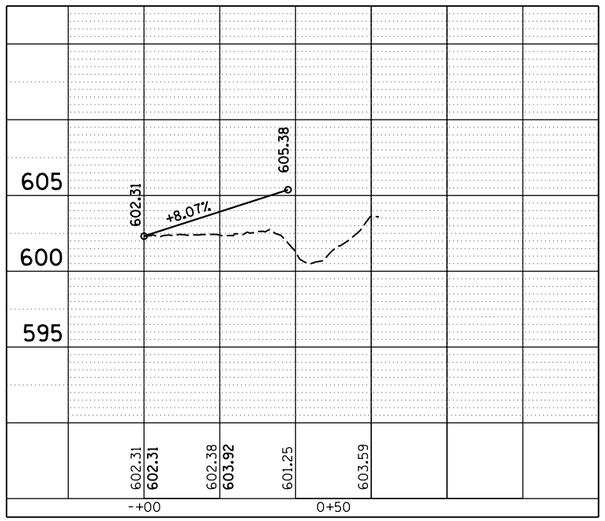
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
STAGING PLAN – TRACK – 7

SCALE: | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	124
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



PLAN – STA. 47834 + 98.37



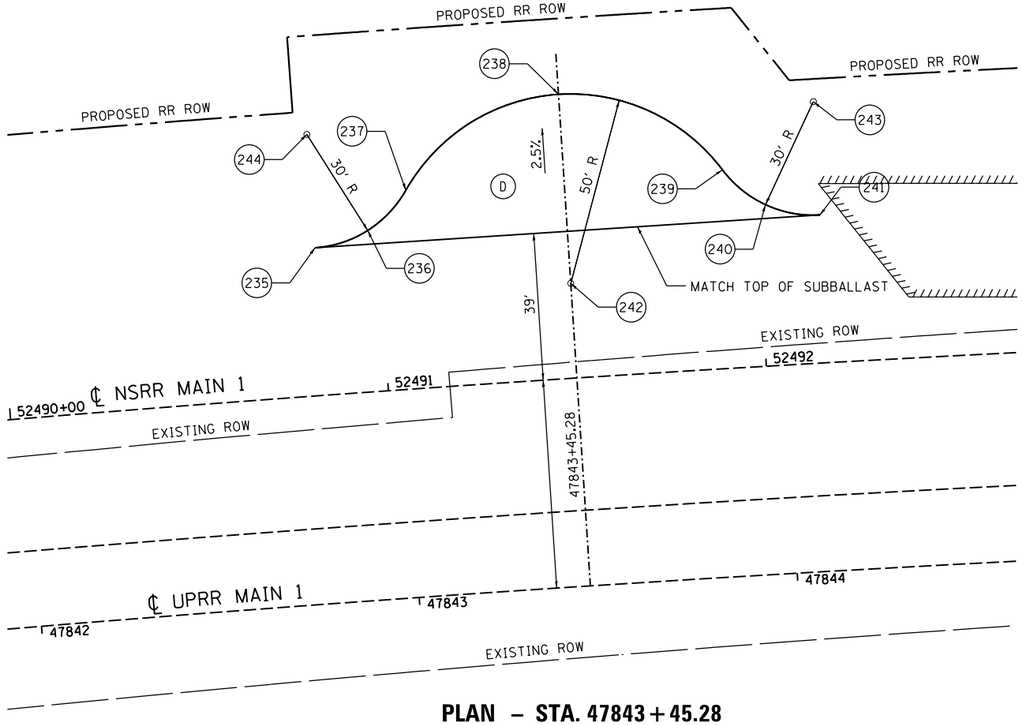
PROFILE – STA. 47834 + 98.37

STA. 47834 + 98.37

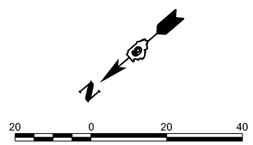
POINT #	STATION	OFFSET	NORTHING	EASTING	ELEV.
225	47834+48.69	24.00	1,133,530.47	2,442,930.11	605.38
226	47834+64.03	28.17	1,133,518.83	2,442,919.36	604.50
227	47834+75.13	39.53	1,133,514.29	2,442,904.17	603.63
228	47834+87.63	62.00	1,133,513.69	2,442,878.51	602.23
229	47835+09.11	62.00	1,133,494.83	2,442,868.58	602.44
230	47835+09.11	54.05	1,133,491.12	2,442,875.61	602.86
231	47835+17.97	32.79	1,133,473.39	2,442,890.29	604.12
232	47835+39.31	24.00	1,133,450.49	2,442,888.09	605.38
233	47835+39.31	54.00	1,133,464.58	2,442,861.61	NA
234	47834+48.69	54.00	1,133,544.28	2,442,903.48	NA

STA. 47834 + 45.28

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEV.
235	47842+79.28	-94.00	1,132,751.00	2,442,611.59	605.75
236	47842+93.29	-97.57	1,132,737.18	2,442,606.82	605.71
237	47843+03.95	-107.43	1,132,722.75	2,442,609.15	605.51
238	47843+45.28	-130.00	1,132,675.34	2,442,604.86	605.10
239	47843+86.61	-107.43	1,132,653.01	2,442,562.81	605.94
240	47843+97.27	-97.57	1,132,649.56	2,442,548.60	606.22
241	47844+11.28	-94.00	1,132,639.81	2,442,537.71	606.36
242	47843+45.28	-80.00	1,132,703.01	2,442,563.21	NA
243	47844+11.28	-124.00	1,132,623.01	2,442,562.57	NA
244	47842+79.28	-124.00	1,132,734.60	2,442,636.71	NA



PLAN – STA. 47843 + 45.28



NOTES

(A) SEE CROSS SECTION SHEETS FOR SECTION THRU ENTRANCES AND TURNAROUND.

(B) SEE FENCING PLAN FOR FENCE AND GATE LOCATIONS.

(C) PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH.

(D) SUBBALLAST, 12 INCH.

FINAL

FILE NAME = D609L0179B-sht-enlarged-pln-Rail-US4.dgn	USER NAME = Pop00275	DESIGNED - GNC	REVISED -	
		DRAWN - RSJ	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JWM/MNM	REVISED -	
PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

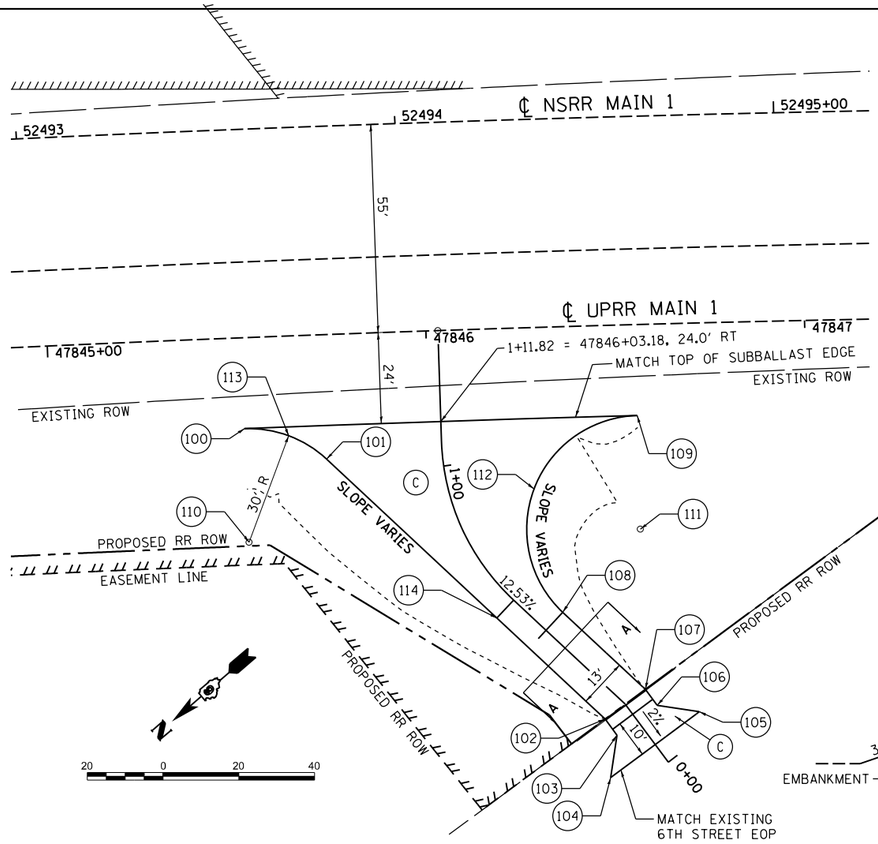
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRACK ACCESS ROAD ENTRANCE & TURNAROUND DETAILS – 1

SCALE: | SHEET 1 OF 4 SHEETS | STA. | TO STA.

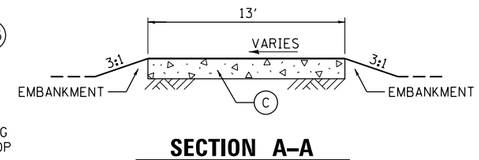
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	125
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

STA. 47846 + 03.17

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEV.
100	47845+51.16	24.00	1,132,591.01	2,442,360.88	606.56
101	47845+72.57	32.87	1,132,578.66	2,442,341.35	604.72
102	47846+44.40	103.87	1,132,561.75	2,442,242.20	595.18
103	47846+47.45	108.20	1,132,561.83	2,442,236.93	595.07
104	47846+45.43	119.31	1,132,569.94	2,442,229.07	594.33
105	47846+69.62	102.58	1,132,540.79	2,442,228.69	593.94
106	47846+58.42	100.62	1,132,548.61	2,442,236.76	594.92
107	47846+55.39	96.32	1,132,548.53	2,442,242.00	595.02
108	47846+33.93	75.34	1,132,553.55	2,442,271.42	598.77
109	47846+55.18	24.00	1,132,506.45	2,442,300.81	606.76
110	47845+51.16	54.00	1,132,608.23	2,442,336.31	NA
111	47846+55.18	54.00	1,132,523.97	2,442,276.47	NA
112	47846+27.28	42.57	1,132,539.86	2,442,301.92	602.76
113	47845+62.75	26.31	1,132,582.88	2,442,352.35	605.64
114	47846+16.32	76.33	1,132,568.33	2,442,280.76	599.97

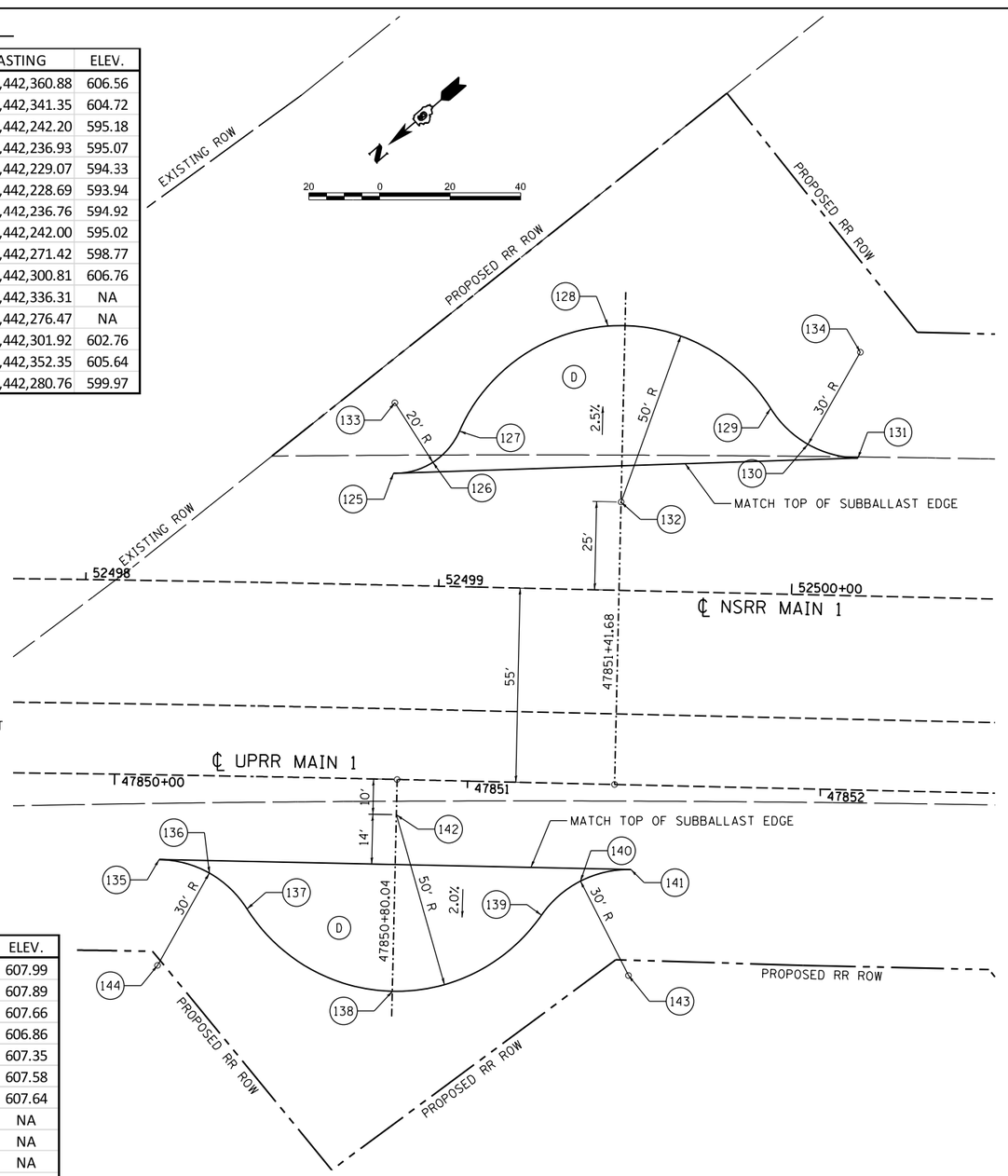


PLAN – STA. 47846 + 03.17

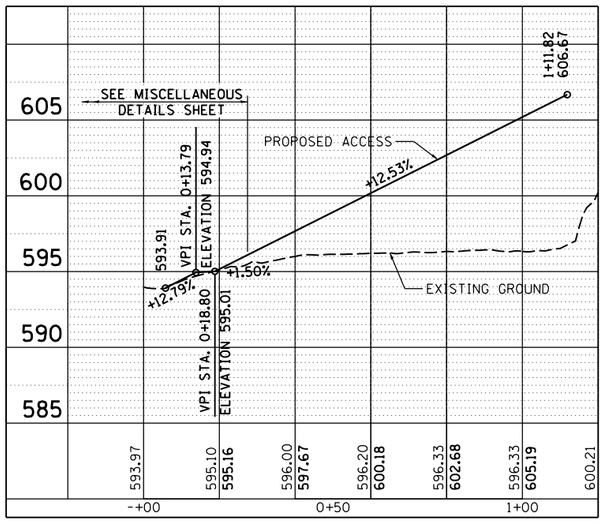


SECTION A–A

N.T.S.



PLAN STA. 47850 + 80.04 & 47851 + 41.68



PROFILE – STA. 47846 + 03.17

STA. 47850 + 80.04 & 47851 + 41.68

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEV.
125	47850+77.05	-86.67	1,132,102.39	2,442,133.00	607.99
126	47850+88.12	-90.06	1,132,091.60	2,442,128.73	607.89
127	47850+95.45	-99.05	1,132,080.25	2,442,131.16	607.66
128	47851+36.89	-129.77	1,132,028.69	2,442,129.30	606.86
129	47851+83.43	-107.50	1,132,006.22	2,442,082.85	607.35
130	47852+94.26	-97.58	1,132,003.94	2,442,068.35	607.58
131	47852+08.49	-94.00	1,131,995.07	2,442,056.67	607.64
132	47851+41.68	-80.00	1,132,056.01	2,442,087.42	NA
133	47850+77.01	-106.67	1,132,089.94	2,442,148.66	NA
134	47852+08.49	-124.00	1,131,976.34	2,442,080.11	NA
135	47850+13.00	24.00	1,132,221.46	2,442,086.20	606.78
136	47850+27.33	27.60	1,132,212.48	2,442,074.52	606.69
137	47850+38.23	37.55	1,132,210.14	2,442,059.98	606.47
138	47850+80.10	60.00	1,132,191.47	2,442,016.45	605.95
139	47851+21.80	37.50	1,132,144.87	2,442,008.02	606.31
140	47851+32.63	27.59	1,132,130.23	2,442,009.01	606.49
141	47851+46.86	24.00	1,132,116.87	2,442,002.93	606.53
142	47850+80.04	10.00	1,132,160.33	2,442,055.57	NA
143	47851+46.86	54.00	1,132,135.59	2,441,979.49	NA
144	47850+13.00	54.00	1,132,240.02	2,442,062.63	NA

NOTES

(A) SEE CROSS SECTION SHEETS FOR SECTION THRU ENTRANCES AND TURNAROUND.

(B) SEE FENCING PLAN FOR FENCE AND GATE LOCATIONS.

(C) PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH. TYPE A FINISH.

(D) SUBBALLAST, 12 INCH.

FINAL

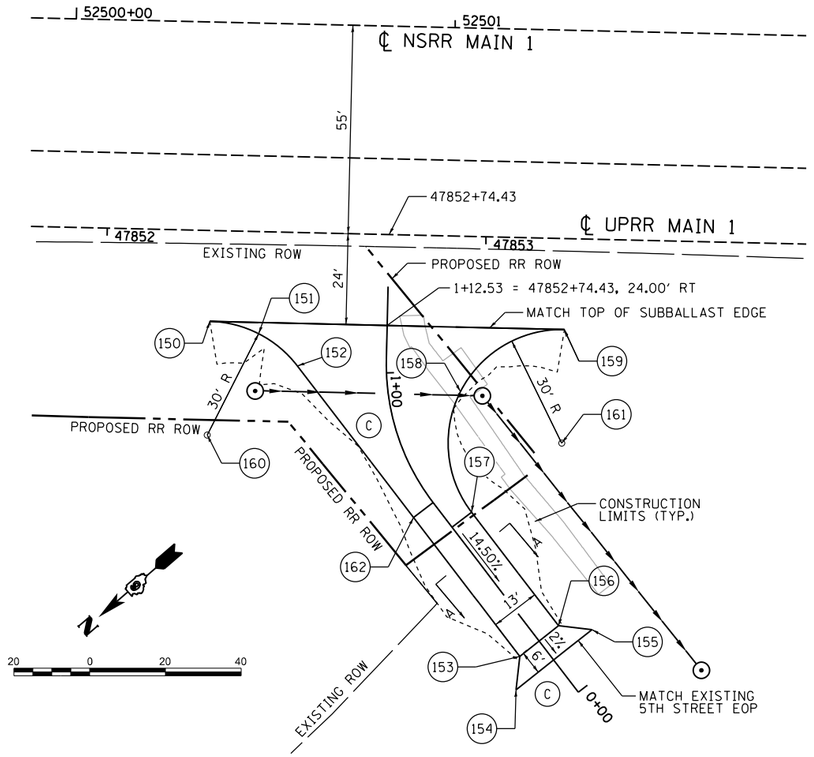
FILE NAME = D689L0179B-sht-enlarged-pln-Rail-US4.dgn	USER NAME = Pop00275	DESIGNED - GNC	REVISED -
		DRAWN - RSJ	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JWM/MNM	REVISED -
PLAN2	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRACK ACCESS ROAD ENTRANCE & TURNAROUND DETAILS – 2

SCALE: | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	126
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



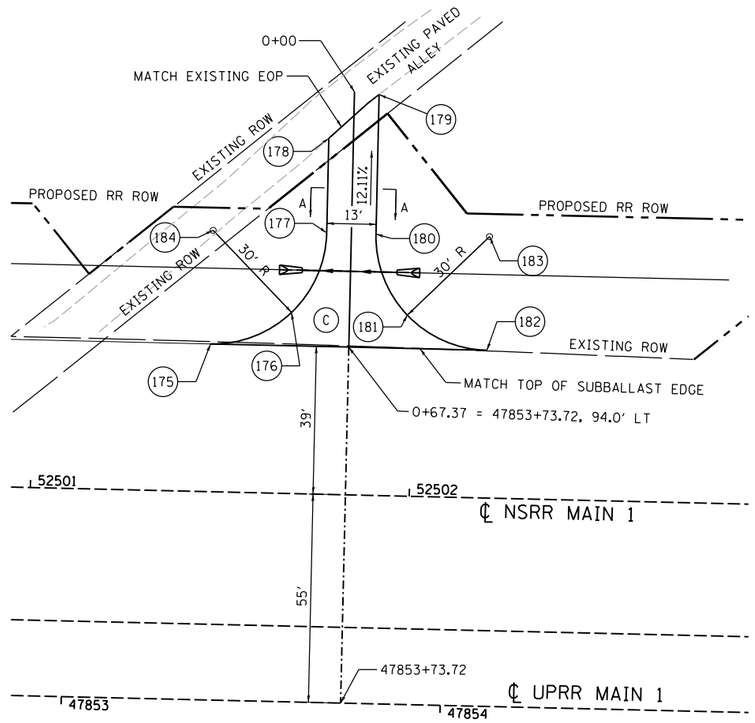
PLAN – STA. 47852 + 74.43

STA. 47852 + 74.43

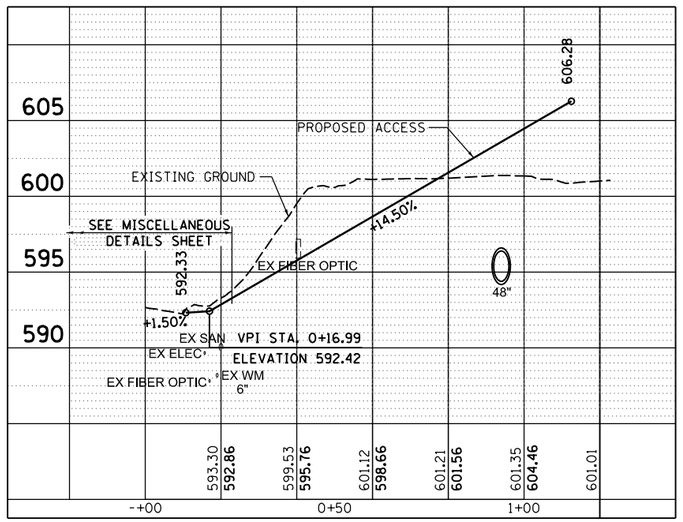
POINT #	STATION	OFFSET	NORTHING	EASTING	ELEV.
150	47852+27.62	24.00	1,132,053.77	2,441,952.53	606.37
151	47852+40.59	26.95	1,132,045.47	2,441,942.13	605.11
152	47852+51.01	35.22	1,132,042.49	2,441,929.17	603.84
153	47853+11.48	110.52	1,132,042.24	2,441,832.59	592.76
154	47853+10.67	119.37	1,132,048.40	2,441,826.18	592.95
155	47853+30.36	103.03	1,132,022.81	2,441,826.66	591.70
156	47853+21.48	102.21	1,132,029.24	2,441,832.84	592.10
157	47852+97.85	72.78	1,132,029.34	2,441,870.58	597.56
158	47852+94.19	41.03	1,132,012.38	2,441,897.68	601.87
159	47853+21.25	24.00	1,131,980.61	2,441,894.10	606.19
160	47852+27.62	54.00	1,132,072.49	2,441,929.09	NA
161	47853+21.25	54.00	1,131,999.34	2,441,870.66	NA
162	47852+82.58	74.53	1,132,042.36	2,441,878.75	599.07

STA. 47853 + 73.72

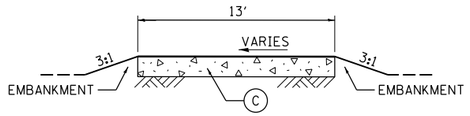
POINT #	STATION	OFFSET	NORTHING	EASTING	ELEV.
175	47853+37.22	-94.00	1,131,894.48	2,441,976.32	607.33
176	47853+58.44	-102.78	1,131,872.42	2,441,969.95	605.39
177	47853+67.22	-124.00	1,131,852.32	2,441,981.04	603.46
178	47853+67.22	-148.98	1,131,836.72	2,442,000.56	599.84
179	47853+80.22	-160.81	1,131,819.19	2,442,001.69	599.81
180	47853+80.22	-124.00	1,131,842.16	2,441,972.93	603.46
181	47853+89.01	-102.78	1,131,848.53	2,441,950.87	605.28
182	47854+10.22	-94.00	1,131,837.44	2,441,930.76	607.11
183	47854+10.22	-124.00	1,131,818.72	2,441,954.20	NA
184	47853+37.22	-124.00	1,131,875.76	2,441,999.76	NA



PLAN – STA. 47853 + 73.72



PROFILE – STA. 47852 + 74.43



SECTION A–A

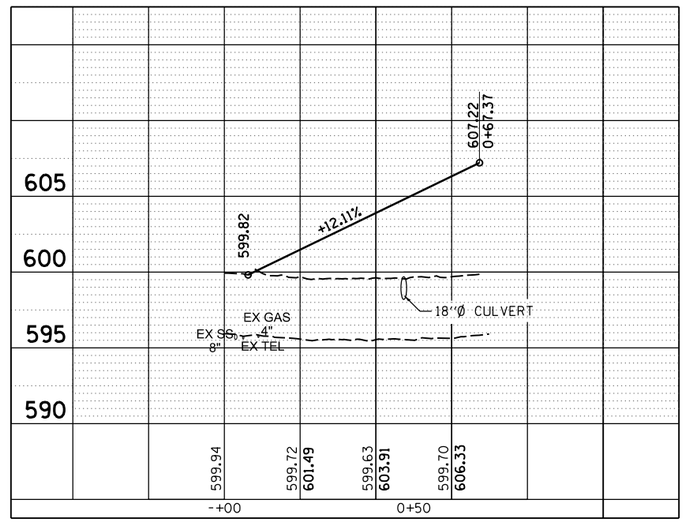
N.T.S.

NOTES

(A) SEE CROSS SECTION SHEETS FOR SECTION THRU ENTRANCES AND TURNAROUND.

(B) SEE FENCING PLAN FOR FENCE AND GATE LOCATIONS.

(C) PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH. TYPE A FINISH.



PROFILE – STA. 47853 + 73.72

FINAL

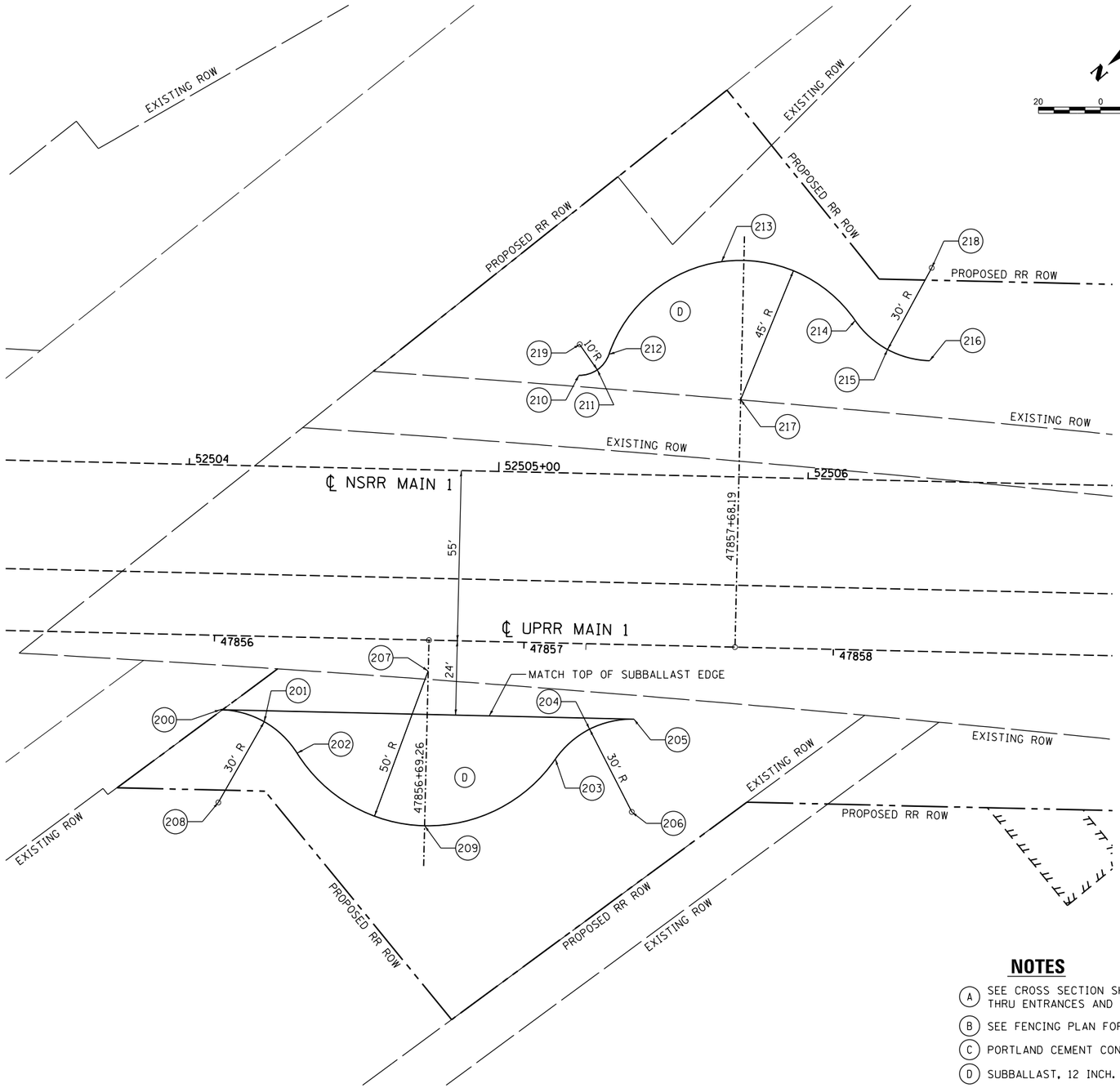
FILE NAME = D609L0179B-sht-enlarged-pln-Rail-US4.dgn	USER NAME = Pop00275	DESIGNED - GNC	REVISED -
		DRAWN - RSJ	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JWM/MNM	REVISED -
PLAN3	PLOT DATE = 4/11/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRACK ACCESS ROAD ENTRANCE & TURNAROUND DETAILS – 3

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	127
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



STA. 47856 + 69.26 & 47857 + 68.19

POINT #	STATION	OFFSET	NORTHING	EASTING	ELEV.
200	47856+02.45	24.00	1,131,760.90	2,441,718.60	605.63
201	47856+16.68	27.58	1,131,752.02	2,441,706.91	605.52
202	47856+27.50	37.50	1,131,749.74	2,441,692.41	605.30
203	47857+11.02	37.50	1,131,684.49	2,441,640.29	605.14
204	47857+21.84	27.58	1,131,669.85	2,441,641.28	605.31
205	47857+36.07	24.00	1,131,656.49	2,441,635.20	605.36
206	47857+36.07	54.00	1,131,675.21	2,441,611.76	NA
207	47856+69.26	10.00	1,131,699.95	2,441,687.84	NA
208	47856+02.45	54.00	1,131,779.62	2,441,695.16	NA
209	47856+69.26	60.00	1,131,731.16	2,441,648.77	604.77
210	47857+15.77	-86.67	1,131,603.28	2,441,734.34	606.38
211	47857+21.67	-88.60	1,131,597.47	2,441,732.16	606.32
212	47857+25.30	-93.64	1,131,591.49	2,441,733.84	606.18
213	47857+65.21	-124.90	1,131,540.79	2,441,733.36	605.31
214	47858+04.63	-106.40	1,131,521.54	2,441,694.30	605.63
215	47858+15.29	-97.27	1,131,518.90	2,441,680.52	605.82
216	47858+28.93	-94.00	1,131,510.29	2,441,669.45	605.86
217	47857+68.19	-80.00	1,131,566.49	2,441,696.42	NA
218	47858+28.93	-124.00	1,131,491.57	2,441,692.89	NA
219	47857+15.77	-96.67	1,131,597.04	2,441,742.16	NA

NOTES

(A) SEE CROSS SECTION SHEETS FOR SECTION THRU ENTRANCES AND TURNAROUND.

(B) SEE FENCING PLAN FOR FENCE AND GATE LOCATIONS.

(C) PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH.

(D) SUBBALLAST, 12 INCH.

HANSON

FINAL

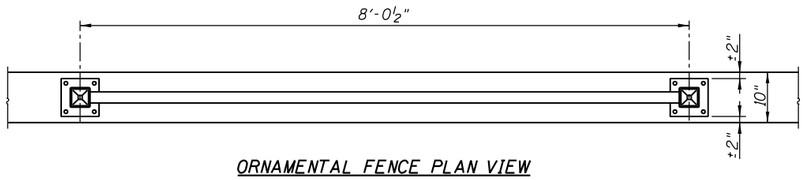
FILE NAME = D609L0179B-sht-enlarged-pln-Rail-US4.dgn	USER NAME = Pop00275	DESIGNED - GNC	REVISED -
		DRAWN - RSJ	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JWM/MNM	REVISED -
PLAN4	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

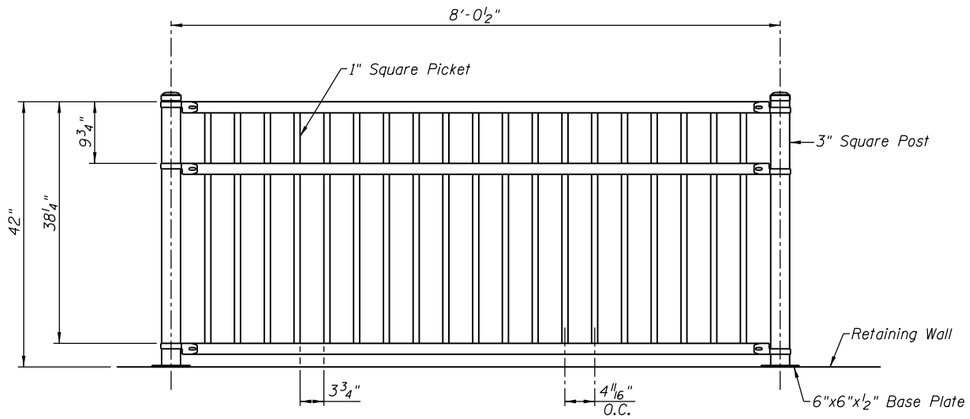
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
TRACK ACCESS ROAD ENTRANCE & TURNAROUND DETAILS – 4

SCALE: | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	128
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		



ORNAMENTAL FENCE PLAN VIEW



ORNAMENTAL FENCE ELEVATION VIEW

Notes:

Fence posts shall be vertical.

Anchor rods shall be ASTM F1554, Gr. 55, galvanized steel all-thread for an Engineer-approved alternate material of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor rods may be used in lieu of ASTM F1554. The anchor rods shalll be hot-dipped galvanized according to AASHTO M232, Class C.

The anchor rods shall be installed according to Article 509.06 of the Standard Specifications. Embedment shall be 6" min. or according to the manufacturer's specifications whatever is greater.

Structural steel plates and bars of the Steel Railing shall conform to the requirements of ASTM A36/36M.

FENCE LOADING

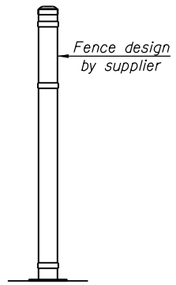
200 lb. concentrated load at any location and direction, or 50 lb./ft. along top rail at any location or direction.

DESIGN CODE

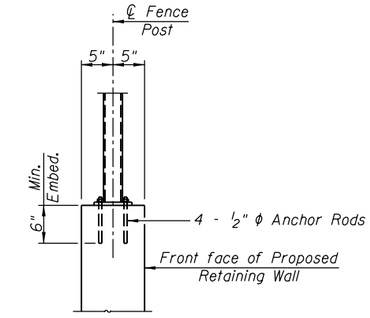
2012 International Building Code

DESIGN STRESSES

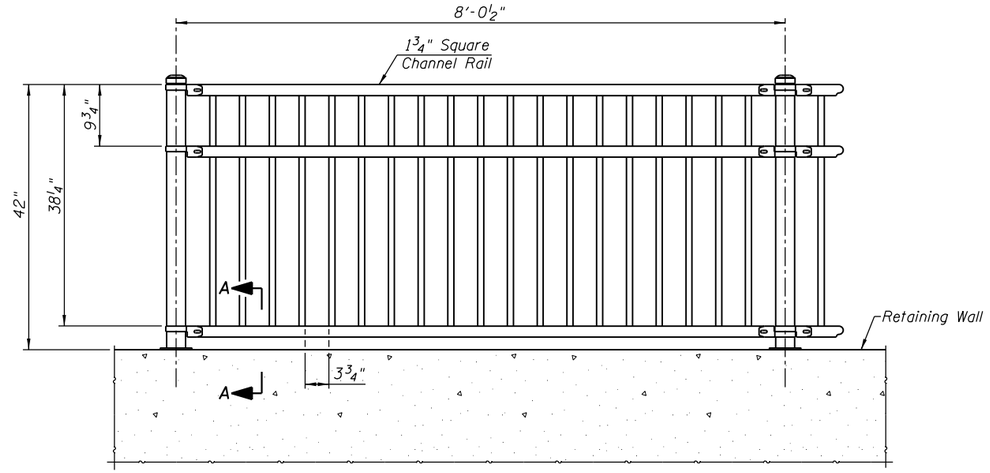
f'c = 3,000 psi (Exist.)
f'c = 3,500 psi (Prop.)
fy = 36,000 psi (M270 Grade 36)



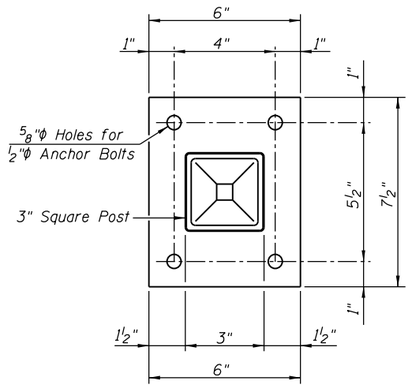
SIDE VIEW



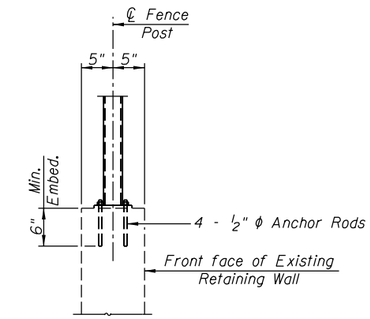
SECTION A-A
(At Proposed Retaining Wall)



ORNAMENTAL FENCE ELEVATION VIEW
(STA. 997+55 TO STA. 1001+41 LT. &
STA. 997+55 TO STA. 1001+81 RT.)



BASE PLATE DETAIL



SECTION A-A
(At Existing Retaining Wall)

BILL OF MATERIAL

Item	Unit	Total
Ornamental Fence	Foot	812

DESIGNED
DRAWN
CHECKED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN - JRP	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ORNAMENTAL FENCE DETAILS – 6TH STREET

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	129
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.

NINTH ST
CUL-DE-SAC

47834+60.55
113.67' LT

47834+65.16
105.23' LT

EXISTING RR MAINTENANCE ROAD

47835+50

℄ NSRR TRACK 1

℄ NSRR MAIN 1

POC Sta 52478+51.69, 15.0' LT

EX NSRR TRACK 1
EX NSRR MAIN 1

52479 52480+00 52481 52482 52483

POC STA 52478+50.00 =
STA 47830+53.96, 55.0' LT

℄ UPRR MAIN 1

+00 47831 47832 47833 47834 47835+00

MATCHLINE

ASH STREET
UNDERPASS

(R) 47834+37.95
31.57' RT

(R) 47834+51.06
35.00' RT

(R) 47834+81.91
90.56' RT

(R) 47835+32.63
45.52' RT

(R) 47835+41.20
60.67' RT

FIELD ADJUST FENCE TO SOUTH
SIDE OF EXISTING POLES.

FENCING /ACCESS LEGEND:

(R) PROPOSED ROW LOCATION CALLOUT.
WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7" IN FROM ROW LINE TO ℄ POST UNLESS OTHERWISE NOTED WITH AN (F).

(F) FENCE LOCATION CALLOUT

(T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.

(C) CHAIN LINK FENCE 8' (SPECIAL)

EXISTING FENCE TO REMAIN AND BE MAINTAINED.

PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.

LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.

EXISTING RR MAINTENANCE ROAD

PROPOSED ROW

TEMPORARY EASEMENT (TE)

PERMANENT EASEMENT (PE)

N

0 20 40 60
SCALE IN FEET

HANSON

FINAL

FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK-00.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 1

SCALE: | SHEET 1 OF 11 SHEETS | STA. 47830+53.96 TO STA. 47835+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	130
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

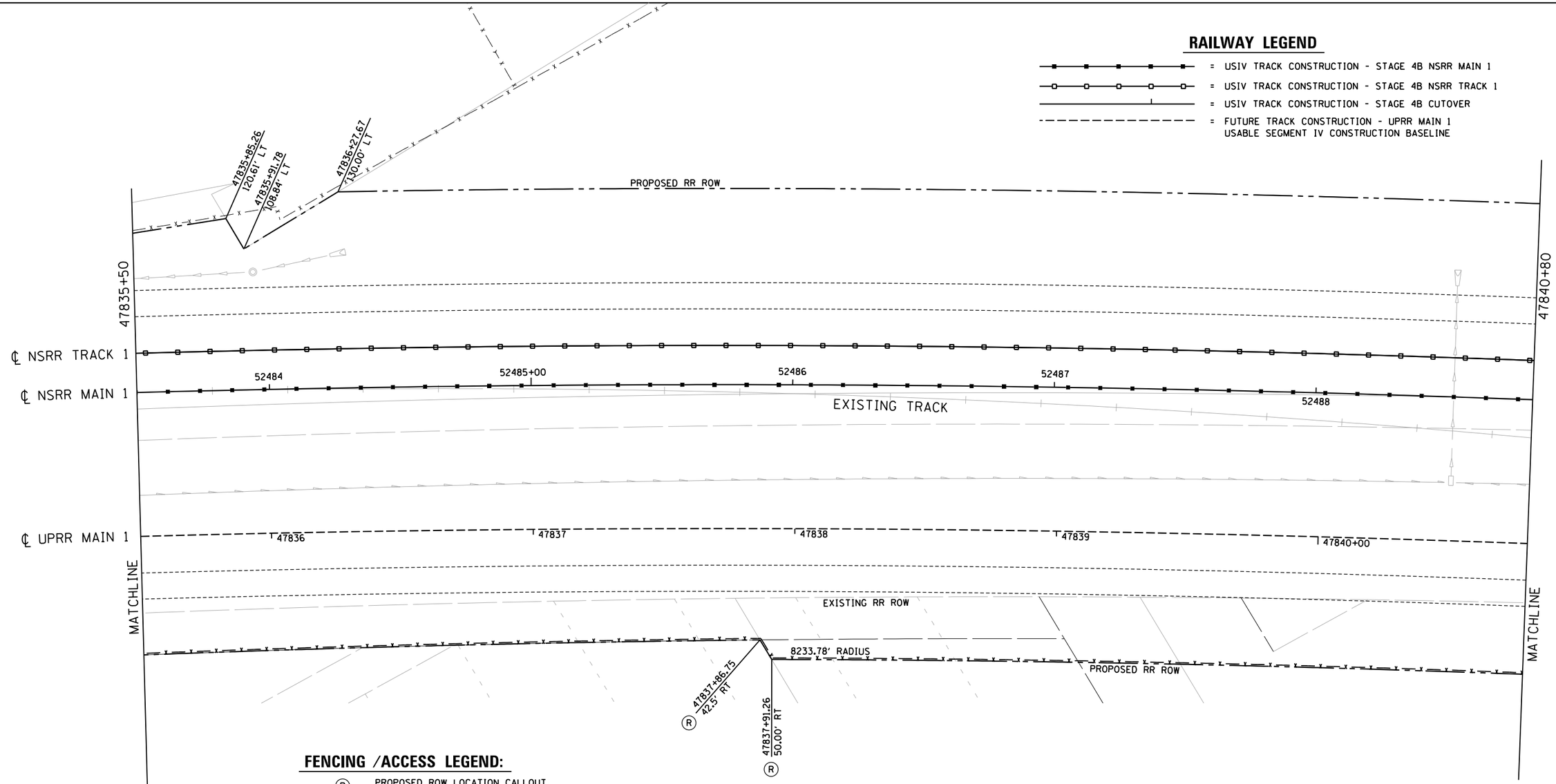
RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE



FENCING /ACCESS LEGEND:

(R) PROPOSED ROW LOCATION CALLOUT.
WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7" IN FROM ROW LINE TO ℄ POST UNLESS OTHERWISE NOTED WITH AN (F).

(F) FENCE LOCATION CALLOUT

(T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.

(C) CHAIN LINK FENCE 8' (SPECIAL)

EXISTING FENCE TO REMAIN AND BE MAINTAINED.

PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.

LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.

EXISTING RR MAINTENANCE ROAD

PROPOSED ROW

TEMPORARY EASEMENT (TE)

PERMANENT EASEMENT (PE)

0 20 40 60
SCALE IN FEET

NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.

FINAL

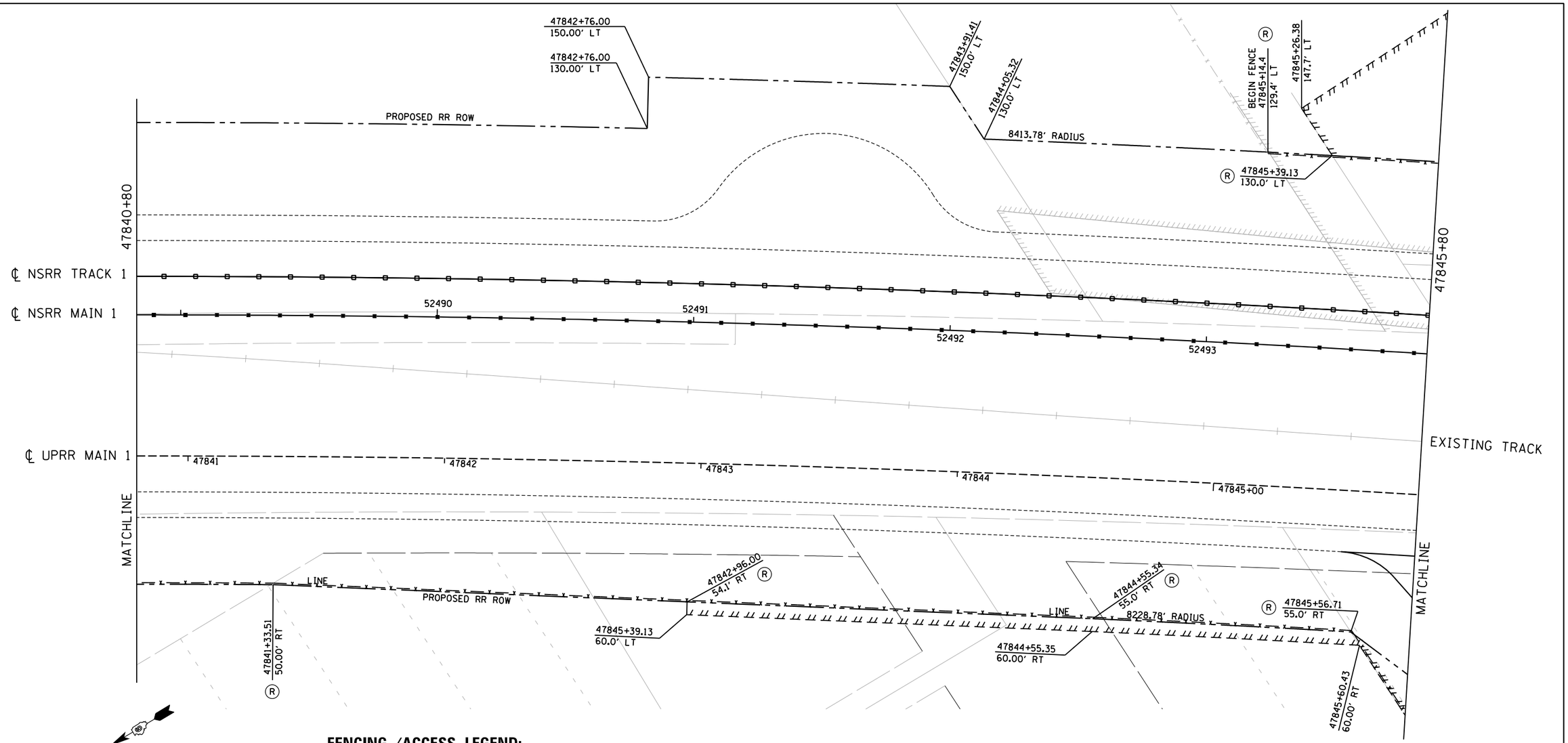
FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK101.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 2

SCALE: | SHEET 2 OF 11 SHEETS | STA. 47835+50 TO STA. 47840+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	131
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



FENCING /ACCESS LEGEND:

- (R) PROPOSED ROW LOCATION CALLOUT. WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7" IN FROM ROW LINE TO ℄ POST UNLESS OTHERWISE NOTED WITH AN (F).
- (F) FENCE LOCATION CALLOUT
- (T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.
- (C) CHAIN LINK FENCE 8' (SPECIAL)
- EXISTING FENCE TO REMAIN AND BE MAINTAINED.
- PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.
- LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.
- EXISTING RR MAINTENANCE ROAD
- PROPOSED ROW
- TEMPORARY EASEMENT (TE)
- PERMANENT EASEMENT (PE)

RAILWAY LEGEND

- = USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1
- = USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1
- = USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER
- = FUTURE TRACK CONSTRUCTION - UPRR MAIN 1 USABLE SEGMENT IV CONSTRUCTION BASELINE

NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.

FINAL

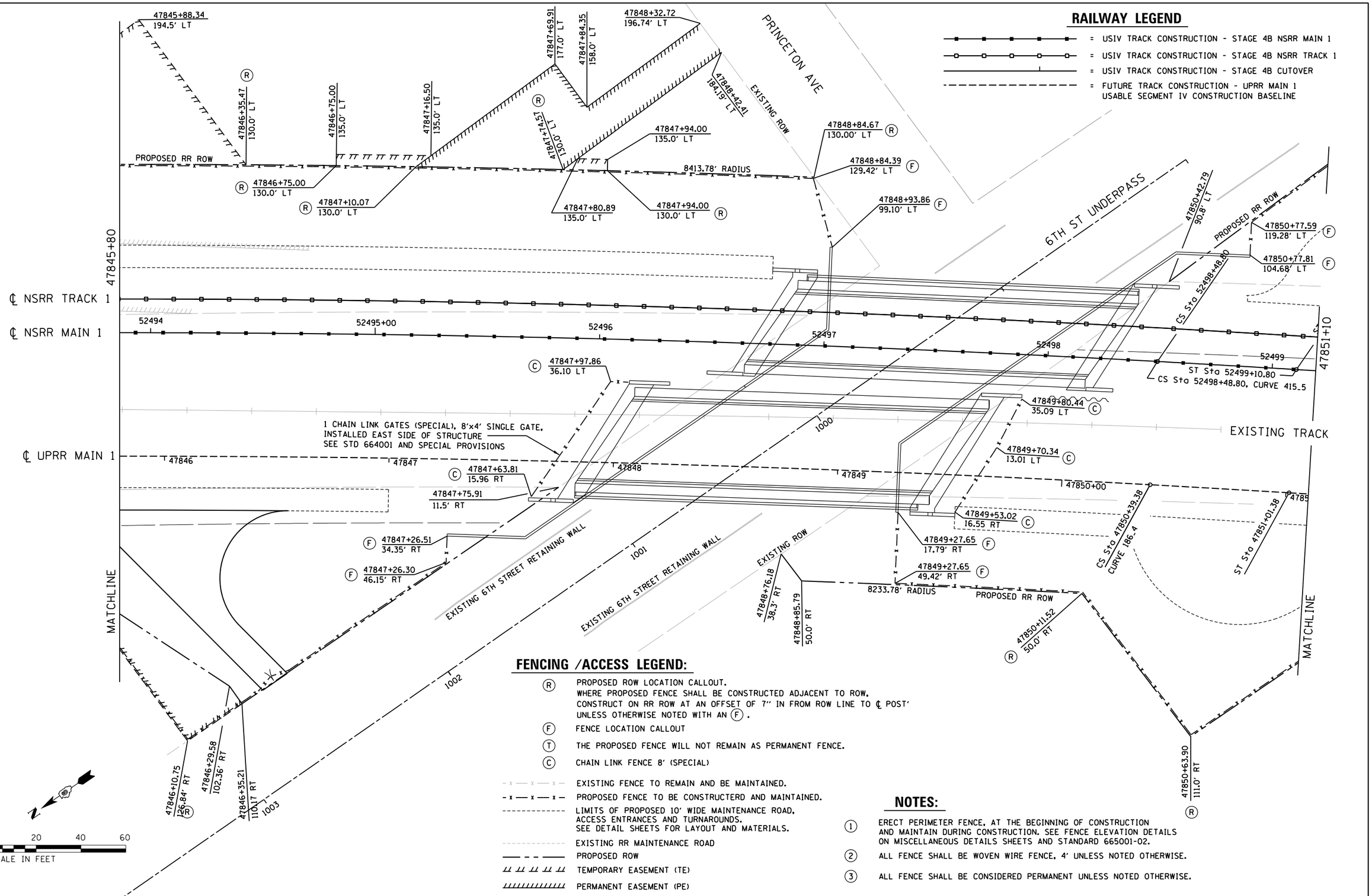
FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK102.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 3

SCALE: | SHEET 3 OF 11 SHEETS | STA. 47840+80 TO STA. 47845+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	132
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



FENCING /ACCESS LEGEND:

- (R) PROPOSED ROW LOCATION CALLOUT. WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7" IN FROM ROW LINE TO ℄ POST' UNLESS OTHERWISE NOTED WITH AN (F).
- (F) FENCE LOCATION CALLOUT
- (T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.
- (C) CHAIN LINK FENCE 8' (SPECIAL)
- EXISTING FENCE TO REMAIN AND BE MAINTAINED.
- PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.
- LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.
- EXISTING RR MAINTENANCE ROAD
- PROPOSED ROW
- TEMPORARY EASEMENT (TE)
- PERMANENT EASEMENT (PE)

NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.

FINAL

FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK103.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 4

SCALE: | SHEET 4 OF 11 SHEETS | STA. 47845+80 TO STA. 47851+10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	133
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

FENCING /ACCESS LEGEND:

(R) PROPOSED ROW LOCATION CALLOUT.
WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7'' IN FROM ROW LINE TO ℄ POST' UNLESS OTHERWISE NOTED WITH AN (F).

(F) FENCE LOCATION CALLOUT

(T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.

(C) CHAIN LINK FENCE 8' (SPECIAL)

EXISTING FENCE TO REMAIN AND BE MAINTAINED.

PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.

LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.

EXISTING RR MAINTENANCE ROAD

PROPOSED ROW

TEMPORARY EASEMENT (TE)

PERMANENT EASEMENT (PE)

0 20 40 60
SCALE IN FEET

47851+69.05 196.5' LT (R)
47852+24.45 130.0' LT (R)
47852+89.53 130.00' LT (R)
47853+04.76 111.72' LT (R)
47853+26.64 130.00' LT (R)
47853+51.60 130.0' LT (R)
47853+82.54 155.8' LT (R)
47854+04.08 130.0' LT (R)
47855+09.52 130.00' LT (R)
47855+07.91 129.42' LT (F)
47854+64.88 92.8' LT
47855+10.68 110.42' LT (F)
47851+10
47856+40
LINE
PROPOSED RR ROW
ALLEY
52500+00
52501
52502
52503
52504
℄ NSRR TRACK 1
℄ NSRR MAIN 1
EXISTING TRACK
47854+33.21 35.25 LT (C)
47854+33.21 35.25 LT (C)
47856+16.44 33.92 LT (C)
47856+06.51 12.70 LT (C)
1 CHAIN LINK GATES (SPECIAL), 8'×4' SINGLE GATE, INSTALLED EAST SIDE OF STRUCTURE SEE STD 664001 AND SPECIAL PROVISIONS
1000
℄ UPRR MAIN 1
47852
47853
47854
47855+00
47856
47853+99.35 15.92 RT (C)
47855+89.28 15.92 RT (C)
47855+66.76 33.89' RT (F)
47856+20.64 10.4' RT
47853+53.80 35.63' RT (F)
47855+70.36 49.42' RT (F)
47853+16.06 59.10' RT (F)
1001
EDGE OF PAVT.
EXISTING ROW
5TH ST UNDERPASS
EDGE OF PAVT.
1002
EXISTING ROW
MATCHLINE
PROPOSED RR ROW
47851+43.18 49.6' RT (R)
47852+48.93 50.0' RT (R)
47852+80.84 87.1' RT (R)
47855+69.61 50.0' RT (R)
47856+17.41 50.0' RT (R)
MATCHLINE

NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.

FINAL

FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK104.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 5

SCALE: | SHEET 5 OF 11 SHEETS | STA. 47851+10 | TO STA. 47856+40

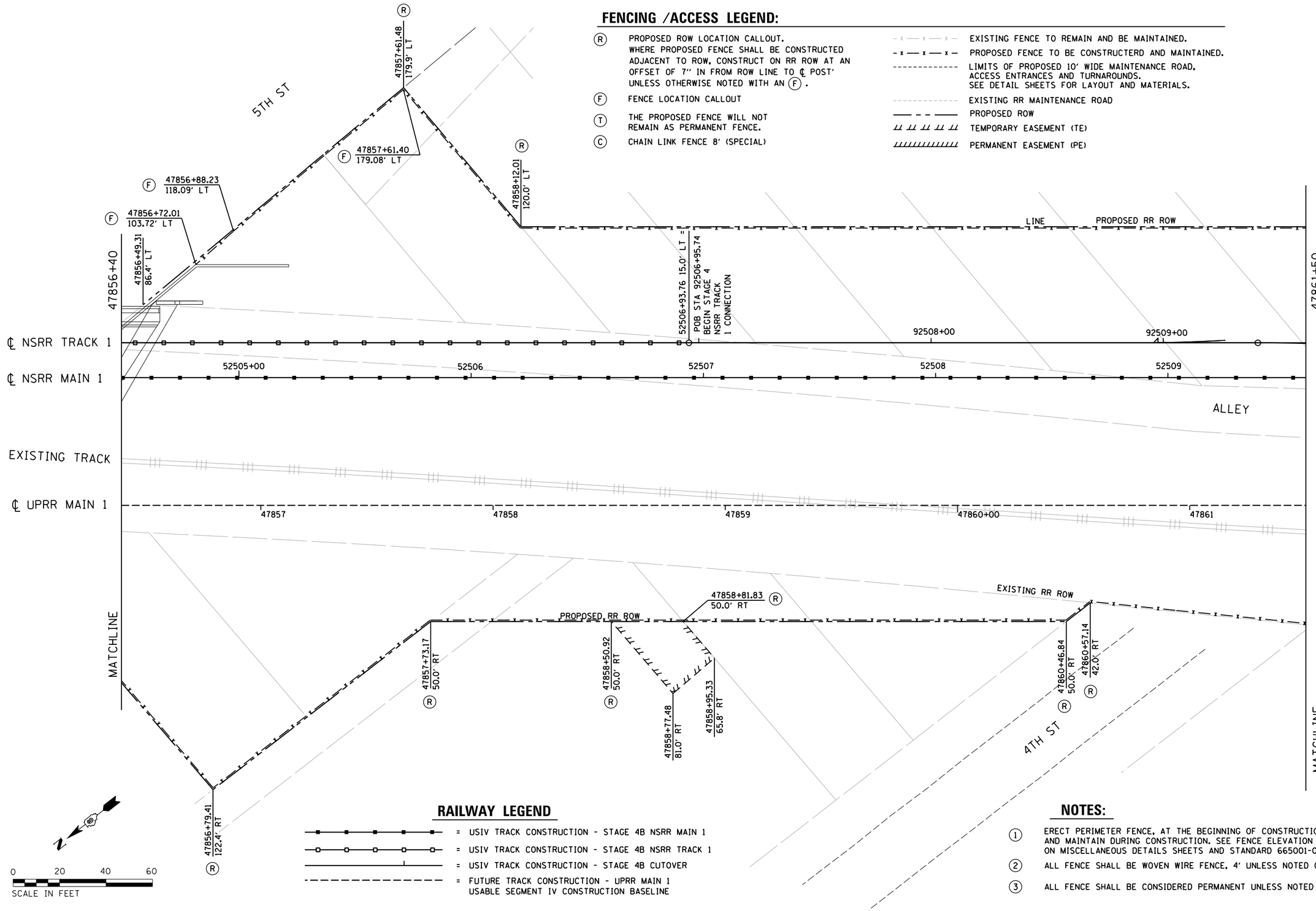
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	134
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

HANSON

FENCING /ACCESS LEGEND:

- (R) PROPOSED ROW LOCATION CALLOUT. WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7" IN FROM ROW LINE TO ℄ POST' UNLESS OTHERWISE NOTED WITH AN (F).
- (F) FENCE LOCATION CALLOUT
- (T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.
- (C) CHAIN LINK FENCE 8' (SPECIAL)

- EXISTING FENCE TO REMAIN AND BE MAINTAINED.
- PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.
- LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.
- EXISTING RR MAINTENANCE ROAD
- PROPOSED ROW
- TEMPORARY EASEMENT (TE)
- PERMANENT EASEMENT (PE)



RAILWAY LEGEND

- = USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1
- = USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1
- = USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER
- = FUTURE TRACK CONSTRUCTION - UPRR MAIN 1 USABLE SEGMENT IV CONSTRUCTION BASELINE

NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.

FINAL

FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK105.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 6

SCALE: | SHEET 6 OF 11 SHEETS | STA. 47856+40 TO STA. 47861+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	135
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

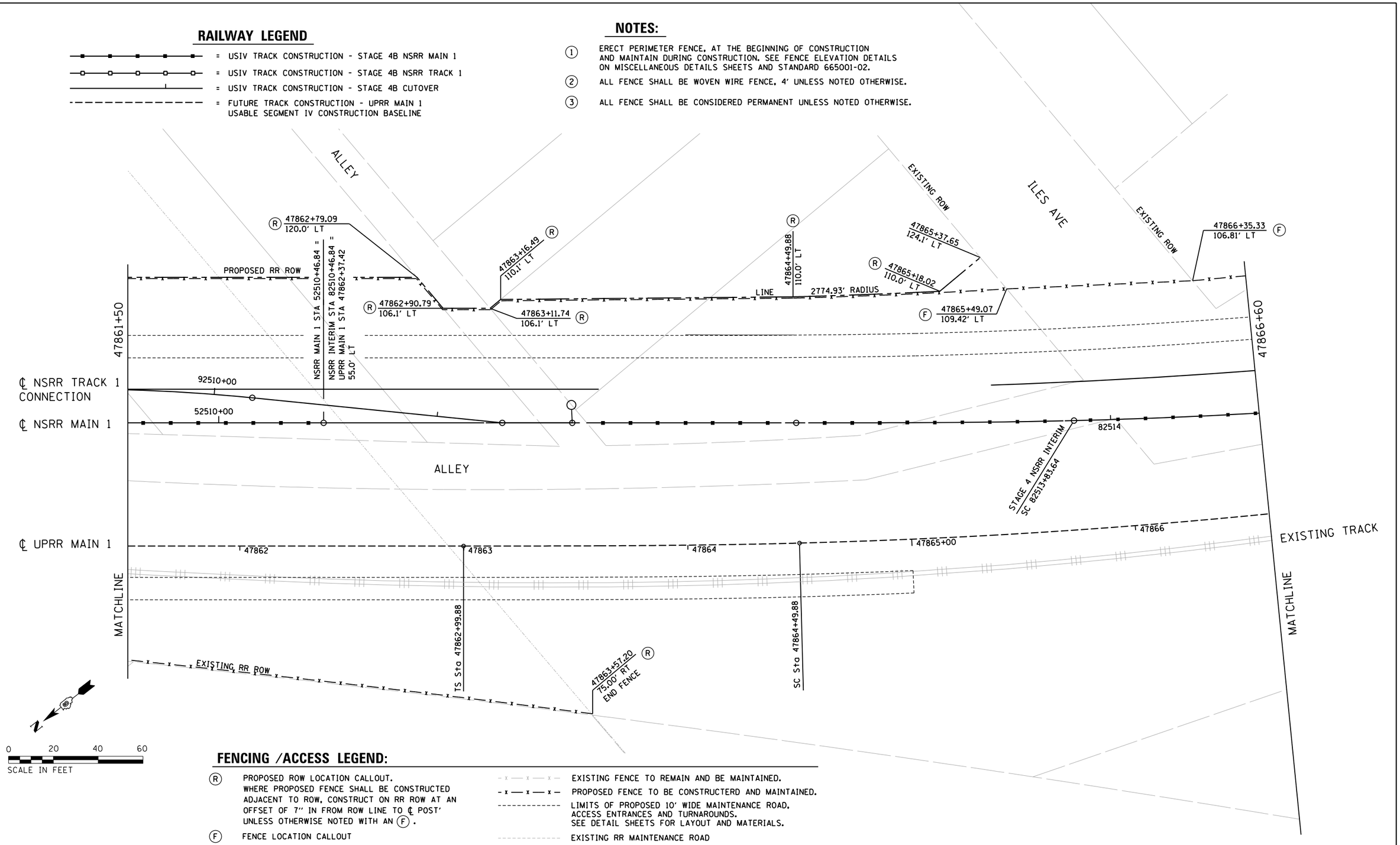
= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.



FENCING /ACCESS LEGEND:

- (R) PROPOSED ROW LOCATION CALLOUT. WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7" IN FROM ROW LINE TO ℄ POST' UNLESS OTHERWISE NOTED WITH AN (F).
- (F) FENCE LOCATION CALLOUT
- (T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.
- (C) CHAIN LINK FENCE 8' (SPECIAL)

- EXISTING FENCE TO REMAIN AND BE MAINTAINED.
- PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.
- LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.
- EXISTING RR MAINTENANCE ROAD
- PROPOSED ROW
- TEMPORARY EASEMENT (TE)
- PERMANENT EASEMENT (PE)

FINAL

FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK106.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 7

SCALE: | SHEET 7 OF 11 SHEETS | STA. 47861+50 TO STA. 47866+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	136
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

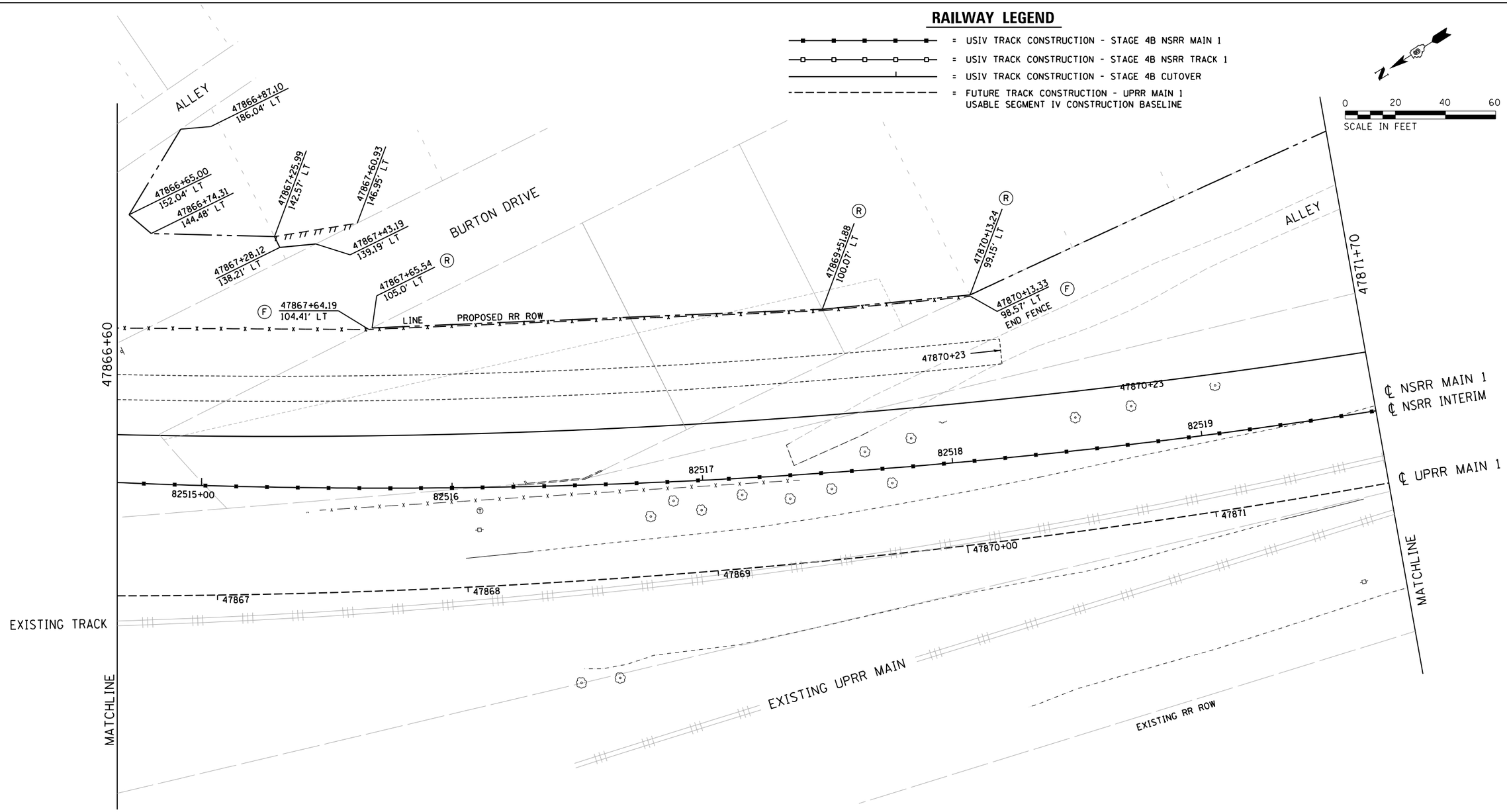
RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE



NOTES:

1. ERECT PERIMETER FENCE, AT THE BEGINNING OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION. SEE FENCE ELEVATION DETAILS ON MISCELLANEOUS DETAILS SHEETS AND STANDARD 665001-02.
2. ALL FENCE SHALL BE WOVEN WIRE FENCE, 4' UNLESS NOTED OTHERWISE.
3. ALL FENCE SHALL BE CONSIDERED PERMANENT UNLESS NOTED OTHERWISE.

FENCING /ACCESS LEGEND:

(R) PROPOSED ROW LOCATION CALLOUT. WHERE PROPOSED FENCE SHALL BE CONSTRUCTED ADJACENT TO ROW, CONSTRUCT ON RR ROW AT AN OFFSET OF 7" IN FROM ROW LINE TO ℄ POST' UNLESS OTHERWISE NOTED WITH AN (F).

(F) FENCE LOCATION CALLOUT

(T) THE PROPOSED FENCE WILL NOT REMAIN AS PERMANENT FENCE.

(C) CHAIN LINK FENCE 8' (SPECIAL)

- x — x — x — EXISTING FENCE TO REMAIN AND BE MAINTAINED.
- x — x — x — PROPOSED FENCE TO BE CONSTRUCTERD AND MAINTAINED.
- - - - - - - - - - - - LIMITS OF PROPOSED 10' WIDE MAINTENANCE ROAD, ACCESS ENTRANCES AND TURNAROUNDS. SEE DETAIL SHEETS FOR LAYOUT AND MATERIALS.
- - - - - - - - - - - - EXISTING RR MAINTENANCE ROAD
—— - - —— PROPOSED ROW
// // // // // // TEMPORARY EASEMENT (TE)
////////////// PERMANENT EASEMENT (PE)

FINAL

FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK107.dgn PLAN1	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG RSJ	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN - TRACK - 8

SCALE: | SHEET 8 OF 11 SHEETS | STA. 47866+60 TO STA. 47871+70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	137
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

HANSON

RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

PROP. CURVE 187.4
PI STA. = 47869+55.36
Δ = 19° 52' 35" (LT)
D = 1° 59' 10"
R = 2,884.93'
T = 505.48'
L = 1,000.76'
E = 43.95'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 47864+49.88
P.T. STA = 47874+50.64

47872+71.15
164.7' LT

ALLEY

47871+70

47872+85.01
100.0' LT

PROPOSED RR ROW

47874+81.70
82.0' LT

LINE

47876+80

℄ NSRR MAIN 1
℄ NSRR INTERIM

82520+00

82521

82522

CS Sta 82522+75.44

82523

ST Sta 82523+99.44 =
Sta 47876+02.47
24.60' LT

EXISTING NSRR MAIN

℄ UPRR MAIN 1

47872

47873

47874

47875+00

47876

EXISTING UPRR MAIN

MATCHLINE

CS Sta 47874+50.64

ST Sta 47876+00.64

MATCHLINE

EXISTING RR ROW

2944.93' RADIUS

PROPOSED RR ROW

LINE

47871+70.35
60.0' RT

ALLEY

47874+50.66
60.0' RT

47876+00.64
60.0' RT

N

0 20 40 60
SCALE IN FEET

FINAL

FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK108.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 9

SCALE: | SHEET 9 OF 11 SHEETS | STA. 47871+70 | TO STA. 47876+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	138
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		

HANSON

47876+80

EXISTING RR ROW

47881+90

EXISTING NSRR MAIN

EXISTING UPRR MAIN

47877 | 47878 | 47879 | 47880+00 | 47881

MATCHLINE

MATCHLINE

EXISTING RR ROW

PROPOSED RR ROW

N

0 20 40 60

SCALE IN FEET

FINAL

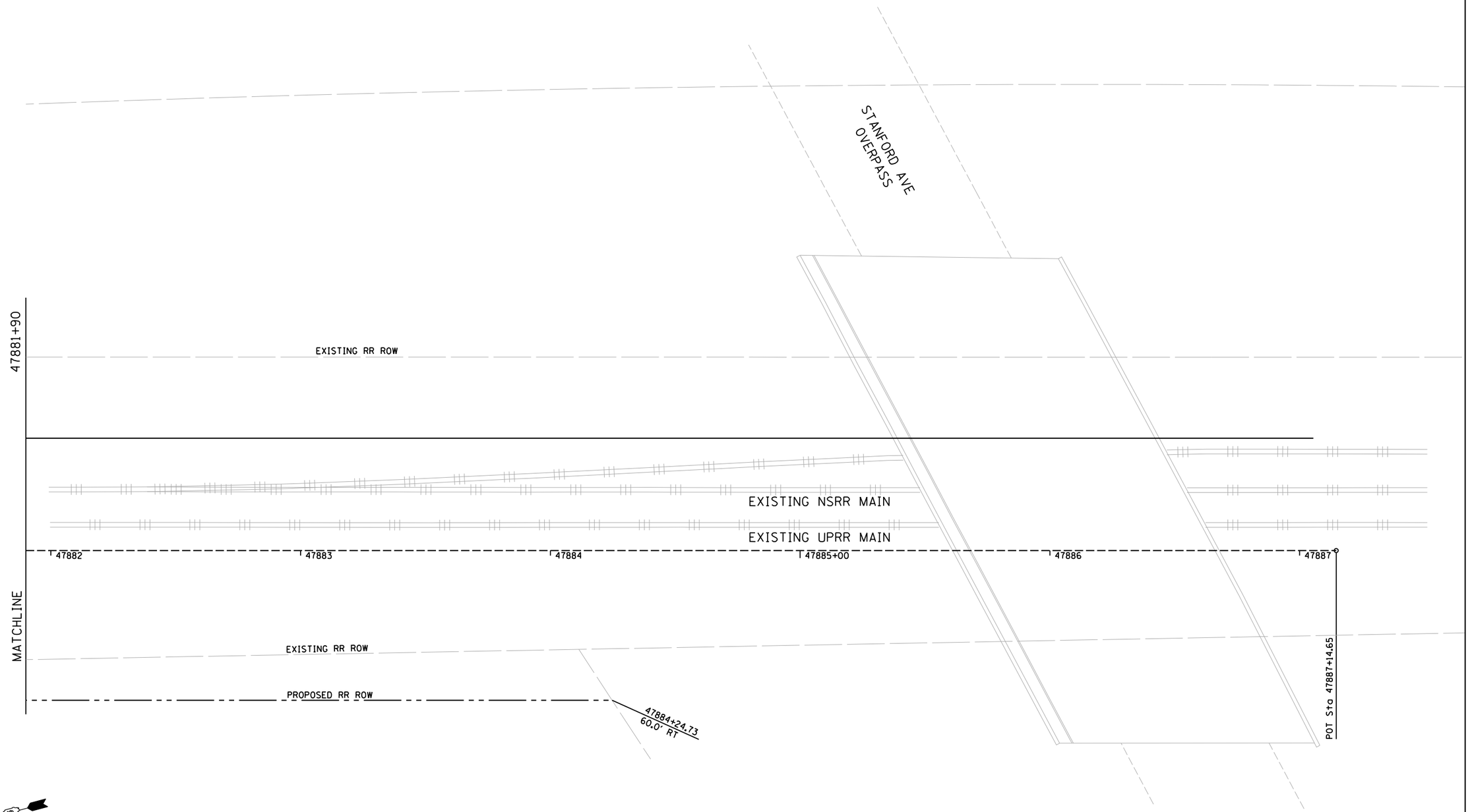
FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK109.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 10

SCALE: | SHEET 10 OF 11 SHEETS | STA. 47876+80 | TO STA. 47881+90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	139
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



HANSON

FINAL

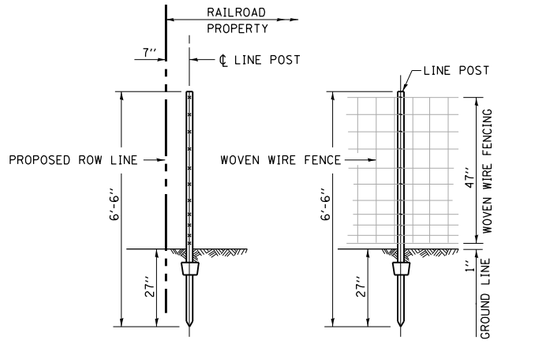
FILE NAME = D609L0179B-FENCE_ACCESS-US4-TRACK110.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
ROW & FENCING /ACCESS PLAN – TRACK – 11

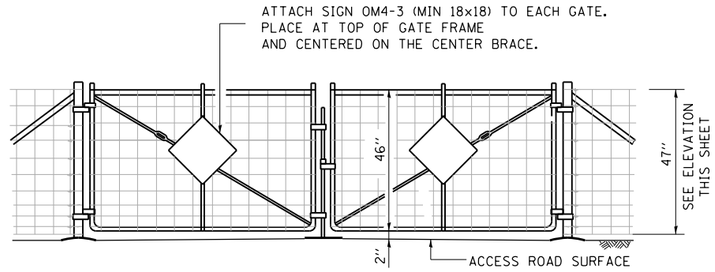
SCALE: | SHEET 11 OF 11 SHEETS | STA. 47881+90 | TO STA. 47887+14.65

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	140
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



WOVEN WIRE FENCE 4 FT. ELEVATIONS

SEE STANDARD 665001-02 FOR ADDITIONAL DETAILS

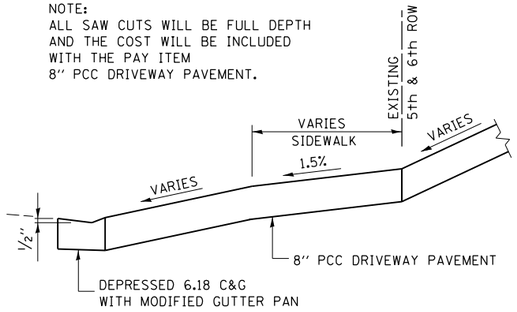


RAILWAY ACCESS GATE ELEVATION

WOVEN WIRE FENCE 4 FT.

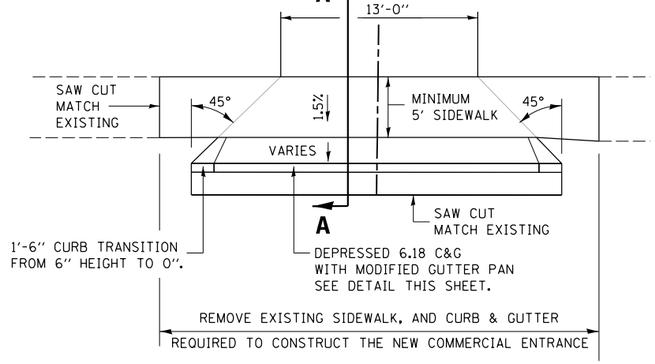
SEE STANDARD 665001-02 FOR ADDITIONAL DETAILS

NOTE:
ALL SAW CUTS WILL BE FULL DEPTH
AND THE COST WILL BE INCLUDED
WITH THE PAY ITEM
8'' PCC DRIVEWAY PAVEMENT.



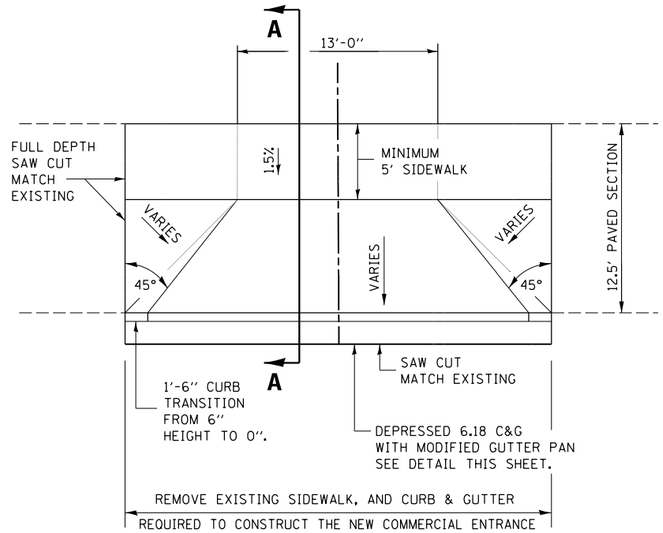
SECTION A–A

NOT TO SCALE



5TH STREET ENTRANCE DETAIL
5TH STREET STATION 1002+44.1 RIGHT

NOT TO SCALE



6TH STREET ENTRANCE DETAIL
6TH STREET STATION 1002+66.1 RIGHT

NOT TO SCALE

HANSON

FINAL

FILE NAME = D609L0179B-Miscellaneous_Details-US4-01.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 10.0000 '/ in.	CHECKED - JWM/GCN	REVISED -
sheet 1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
MISCELLANEOUS DETAILS – TRACK

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	141
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		

POINT	NORTHING	EASTING	ELEVATION
(A)	1133183.98	2442923.23	603.7
(B)	1133107.81	2442960.95	603.4
(C)	1132649.97	2442816.77	600.7
(D)	1132646.48	2442661.81	600.6
(E)	1132695.99	2442637.86	601.6
B-192 BORING	1132758.23	2442837.15	
B-191 BORING	1133083.26	2442871.38	

30 0 30 60

PROPOSED ROW
92484
82484
℄ STAGE 2 TRACK 1
℄ STAGE 2 MAIN
92485+00
82485+00
47836
℄ UPRR MAIN 1
47837
92486
82486
47838
92487
82487
EXISTING ROW
47839
EXISTING NSRR
92488
82488
47840+00
92489
82489
47841
92490+00
82490+00
47842
92491
82491
47843
EXISTING ROW
92492
82492
47844
92493
PROPOSED ROW
PROPOSED ROW
B-191
B-192
A
B
C
D
E
EXISTING ACCESS EASEMENT FOR INGRESS AND EGRESS DOC #2005R04684
COMMERCIAL BUILDING REMOVED IN PRIOR CONTRACT
CONTOURS ARE EXISTING CONTOURS PRIOR TO CONSTRUCTION OF USABLE SEGMENT II
20' MIN.
TMF CONSTRUCTION

LEGEND:

LIMITS OF EARTHWORK STAGING AREA

THE CONTRACTOR HAS THE OPTION TO USE THE AREA SHOWN AS AN EARTHWORK STAGING AREA TO STOCKPILE MATERIAL AND AS A SOURCE OF EMBANKMENT. A LARGE QUANTITY OF MATERIAL HAS BEEN PLACED AT THIS LOCATION FROM CONSTRUCTION OF USABLE SEGMENT II. THE CONTRACTOR MAY ALSO ELECT TO OBTAIN EMBAKMENT MATERIAL FROM OTHER APPROVED OFF-SITE SOURCES. MAXIMUM SLOPES FOR EXCAVATION SHALL BE 2:1 AND EMBANKMENT SHALL BE 4:1. FINAL GRADE ELEVATION AT COMPLETION OF THE PROJECT SHALL BE NO MORE THAN 10 FEET HIGHER THAN THE CONTOURS SHOWN ON THE PLAN & GRADED SO THAT FINAL DRAINAGE SHALL MATCH EXISTING DRAINAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FENCING, EROSION CONTROL, TEMPORARY SEEDING & FINAL SEEDING AT THE EARTHWORK STAGING AREA AT NO ADDITIONAL COST TO THE CONTRACT.

LEGEND

- N — *Standard Penetration Test N (blows/ft)*
- Qu — *Unconfined Strength (tsf)*
- w% — *Natural Moisture Content (%)*
- LL — *Liquid Limit*
- PI — *Plasticity Index*
- OC — *Organic Content*
- DD / 558.10 ▽ — *Water Surface Elevation Encountered in Boring*
  DD = during drilling
  Oh = at completion
  24h = 24 hours after completion

B-191
Sta. 47838+66, 140' LT
1/17/17

	N	Qu	w%	
603.80				CONCRETE.
603.30				BRICK and CINDERS.
602.97	27		25	Black COAL fragments.
600.30	6	4.30P	21	Yellow-brown and gray very fine sandy SILT.
597.80	6	1.94B	30	Gray silty CLAY.
595.30	4	0.66B	30	Yellow-brown and gray very fine sandy SILT, trace clay.
	5	2.13B	27	
	5	2.13B	29	
587.80	5	1.05B	27	Dark gray very fine sandy silty CLAY.
585.30	5	1.01B	24	Gray very fine sandy silty CLAY, trace coarse sand and small gravel.
580.80 ▽ DD	4	0.23B	27	
575.30				
573.80	50/5"		11	Gray SHALE.
				Bottom of Hole = 30.0 feet

B-192
Sta. 47841+54, 280' LT
1/17/17

	N	Qu	w%	
601.60				TOPSOIL.
600.77	4	1.70P	37	Gray very fine sandy SILT, some oxidation.
598.10	8	1.32B	30	Black very fine sandy silty CLAY. (LL=58, PI=37, OC=4.6%)
595.60	5	1.24B	29	Yellow-brown and gray very fine sandy SILT, trace clay.
	5	2.33B	27	(LL=29, PI=6) (1% sand, 87% silt, 12% clay)
590.60	5	1.55B	26	Dark brown very fine sandy silty CLAY. (LL=34, PI=14, OC=3.8%)
587.60 ▽ Oh	4	1.12B	28	
585.60	6	0.70B	28	Gray very fine sandy silty CLAY, trace coarse sand.
583.10	5	0.85B	26	Brown and gray weathered SHALE.
	13	2.13B	21	
573.10				
571.60	50/3"		11	Gray SHALE.
				Bottom of Hole = 30.0 feet

BORINGS MADE PRIOR TO EARTHWORK STAGING FOR USABLE SEGMENT II AND DO NOT REFLECT MATERIAL STOCKPILED ON THE SITE.

HANSON

FINAL

FILE NAME = D609L0179B-sht-EARTHWORK_STAGING_AREA-01.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 60.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
US4	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
OPTIONAL EARTHWORK STAGING AREA

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	142
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

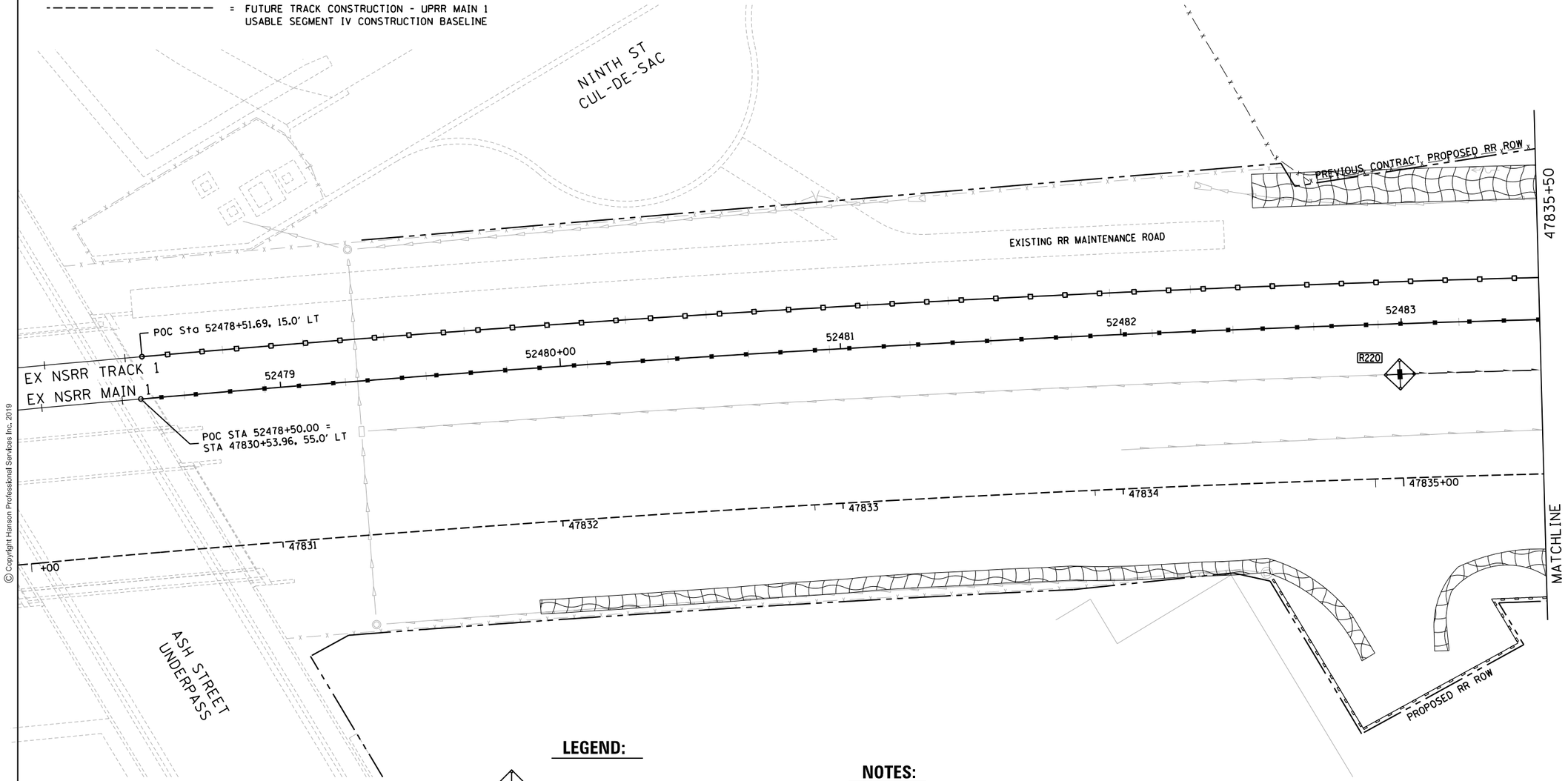
RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE



LEGEND:

INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET (ECB)

PERIMETER EROSION BARRIER

R288 PROPOSED STORM STRUCTURE NO.
SEE DRAINAGE SCHEDULES

TEMPORARY DITCH CHECK

0 20 40 60
SCALE IN FEET

NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

(E) SEE FIFTH STREET & SIXTH STREET / PRINCETON AVENUE EROSION CONTROL PLANS FOR ADDITIONAL ITEMS NOT SHOWN ON TRACK PLANS.

(F) FIFTH AND SIXTH STREET UNDERPASS CONSTRUCTION STAGES REQUIRE THE CONTRACTOR TO MODIFY, EXTEND AND REINSTALL & MAINTAIN EROSION CONTROL ITEMS TO MEET REQUIREMENTS IN THE SPECIAL PROVISIONS.

HANSON

FINAL

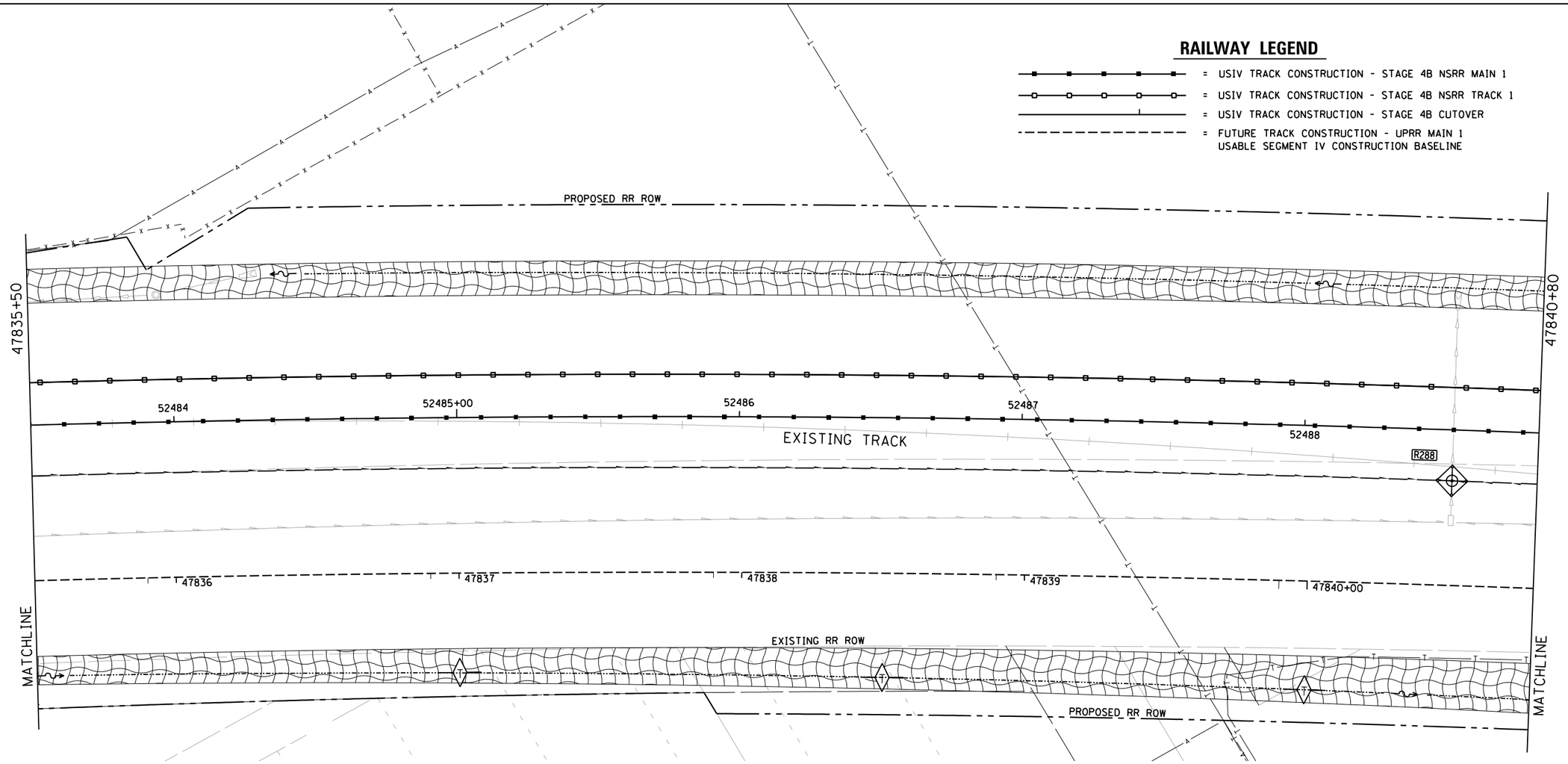
FILE NAME = D609L0179B-EROSION-US4-TRACK-00.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 1

SCALE: | SHEET 1 OF 9 SHEETS | STA. 47830+53.96 TO STA. 47835+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	143
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

LEGEND:

INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET (ECB)

PERIMETER EROSION BARRIER

R288 PROPOSED STORM STRUCTURE NO.
SEE DRAINAGE SCHEDULES

T TEMPORARY DITCH CHECK

0 20 40 60
SCALE IN FEET

NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

FINAL

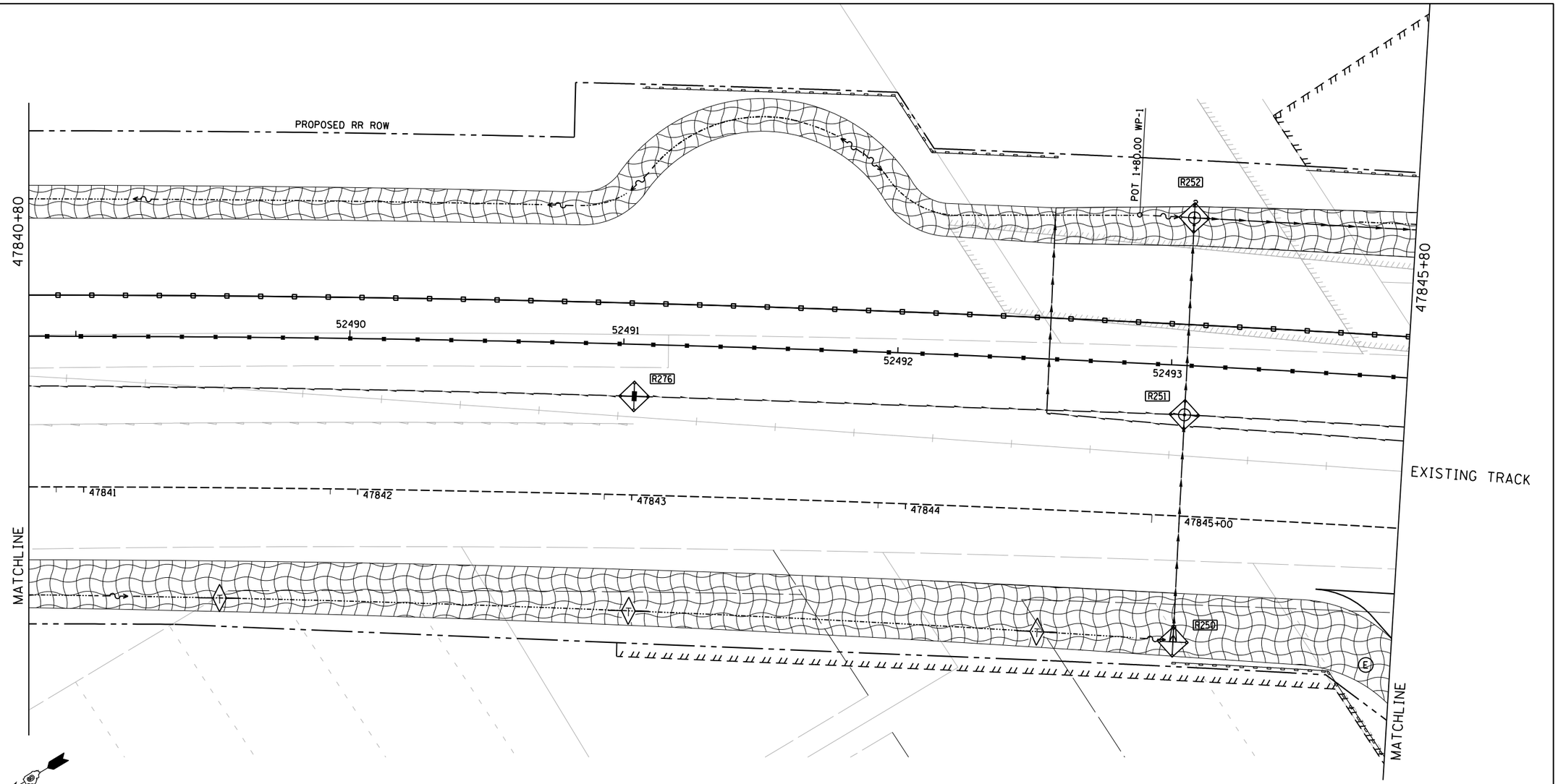
FILE NAME = D689L0179B-EROSION-US4-TRACK101.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 2

SCALE: | SHEET 2 OF 9 SHEETS | STA. 47835+50 | TO STA. 47840+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	144
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



RAILWAY LEGEND

- = USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1
- = USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1
- = USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER
- = FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
  USABLE SEGMENT IV CONSTRUCTION BASELINE

LEGEND:

- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET (ECB)
- PERIMETER EROSION BARRIER
- R288 — PROPOSED STORM STRUCTURE NO. SEE DRAINAGE SCHEDULES
- T — TEMPORARY DITCH CHECK

NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

(E) PLACE AND MAINTAIN ECB ALONG 2:1 SIDESLOPES OF TRACK ENTRANCES. SEE EROSION AND SEDIMENT SCHEDULE.

HANSON

FINAL

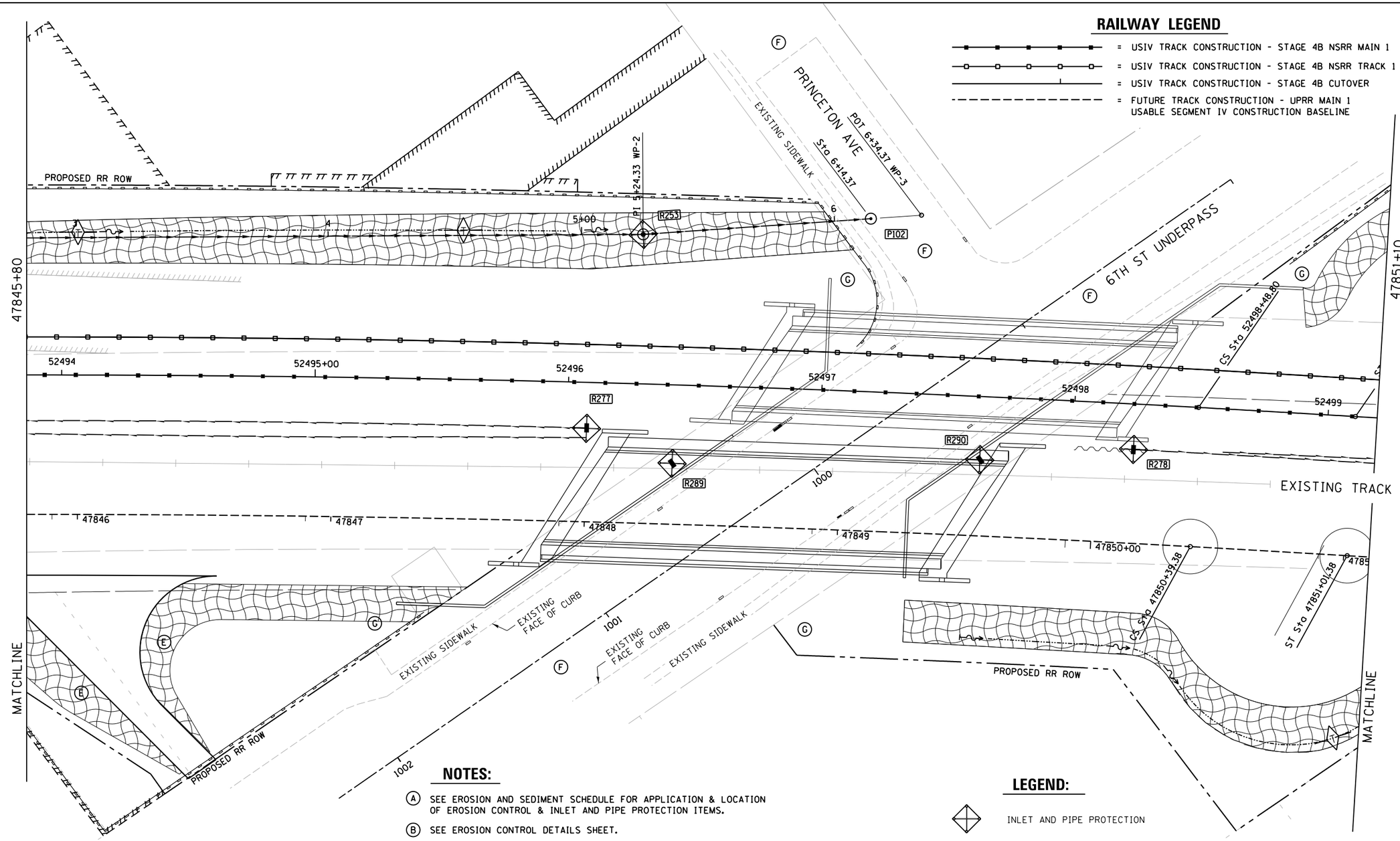
FILE NAME = D609L0179B-EROSION-US4-TRACK102.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 3

SCALE: | SHEET 3 OF 9 SHEETS | STA. 47840+80 | TO STA. 47845+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	145
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

(E) PLACE AND MAINTAIN ECB ALONG 2:1 SIDESLOPES OF TRACK ENTRANCES. SEE EROSION AND SEDIMENT SCHEDULE.

(F) SEE FIFTH STREET & SIXTH STREET / PRINCETON AVENUE EROSION CONTROL PLANS FOR ADDITIONAL ITEMS NOT SHOWN ON TRACK PLANS.

(G) FIFTH AND SIXTH STREET UNDERPASS CONSTRUCTION STAGES REQUIRE THE CONTRACTOR TO MODIFY, EXTEND AND REINSTALL & MAINTAIN EROSION CONTROL ITEMS TO MEET REQUIREMENTS IN THE SPECIAL PROVISIONS.

LEGEND:

INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET (ECB)

PERIMETER EROSION BARRIER

R288 PROPOSED STORM STRUCTURE NO. SEE DRAINAGE SCHEDULES

T TEMPORARY DITCH CHECK

HANSON

FINAL

FILE NAME = D609L0179B-EROSION-US4-TRACK103.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 4

SCALE: | SHEET 4 OF 9 SHEETS | STA. 47845+80 | TO STA. 47851+10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	146
	O9L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

HANSON

RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

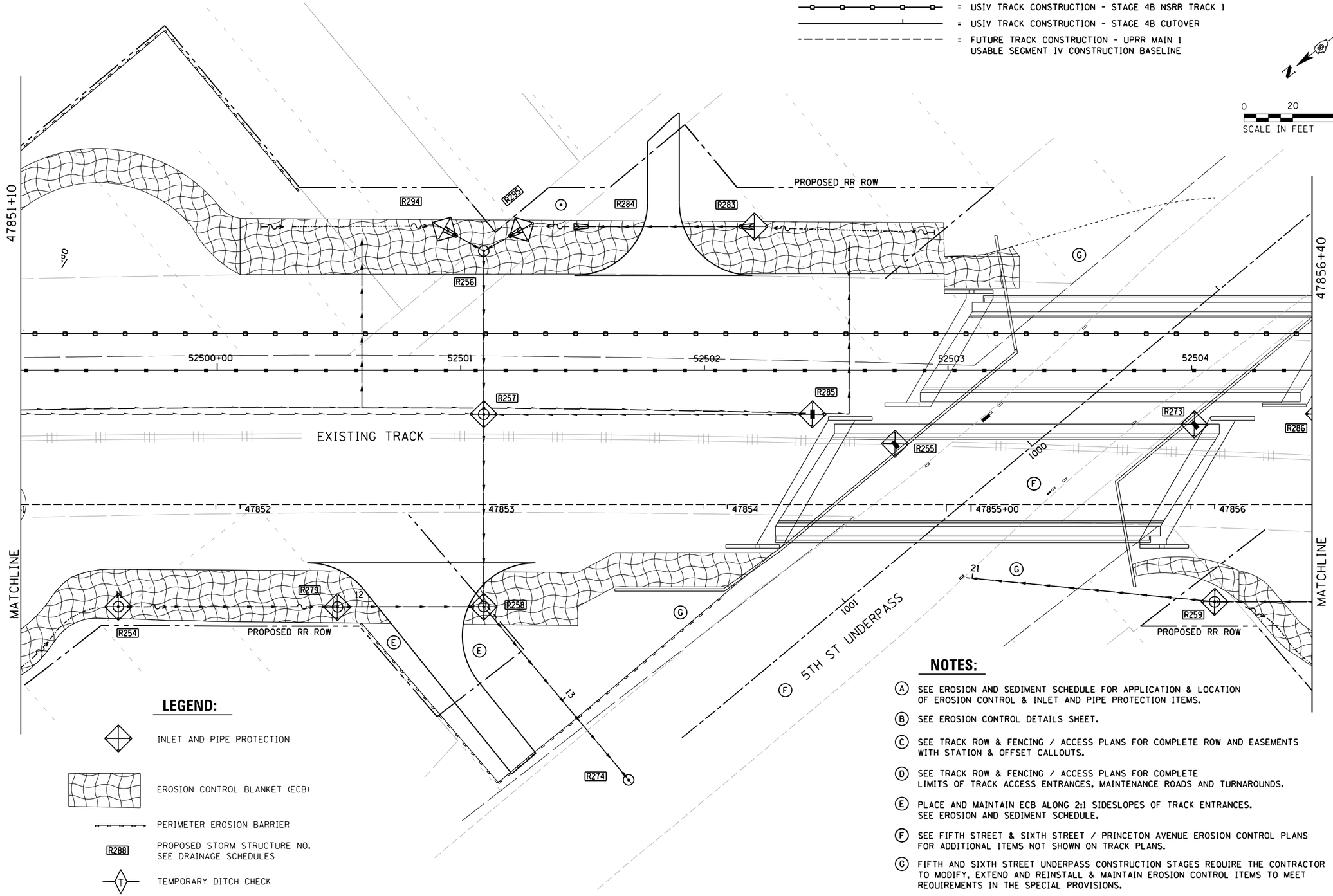
= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

N

0 20 40 60
SCALE IN FEET



LEGEND:

- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET (ECB)
- PERIMETER EROSION BARRIER
- R288 — PROPOSED STORM STRUCTURE NO. SEE DRAINAGE SCHEDULES
- TEMPORARY DITCH CHECK

NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

(E) PLACE AND MAINTAIN ECB ALONG 2:1 SIDESLOPES OF TRACK ENTRANCES. SEE EROSION AND SEDIMENT SCHEDULE.

(F) SEE FIFTH STREET & SIXTH STREET / PRINCETON AVENUE EROSION CONTROL PLANS FOR ADDITIONAL ITEMS NOT SHOWN ON TRACK PLANS.

(G) FIFTH AND SIXTH STREET UNDERPASS CONSTRUCTION STAGES REQUIRE THE CONTRACTOR TO MODIFY, EXTEND AND REINSTALL & MAINTAIN EROSION CONTROL ITEMS TO MEET REQUIREMENTS IN THE SPECIAL PROVISIONS.

FINAL

FILE NAME = D609L0179B-EROSION-US4-TRACK104.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 5

SCALE: | SHEET 5 OF 9 SHEETS | STA. 47851+10 | TO STA. 47856+40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	147
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

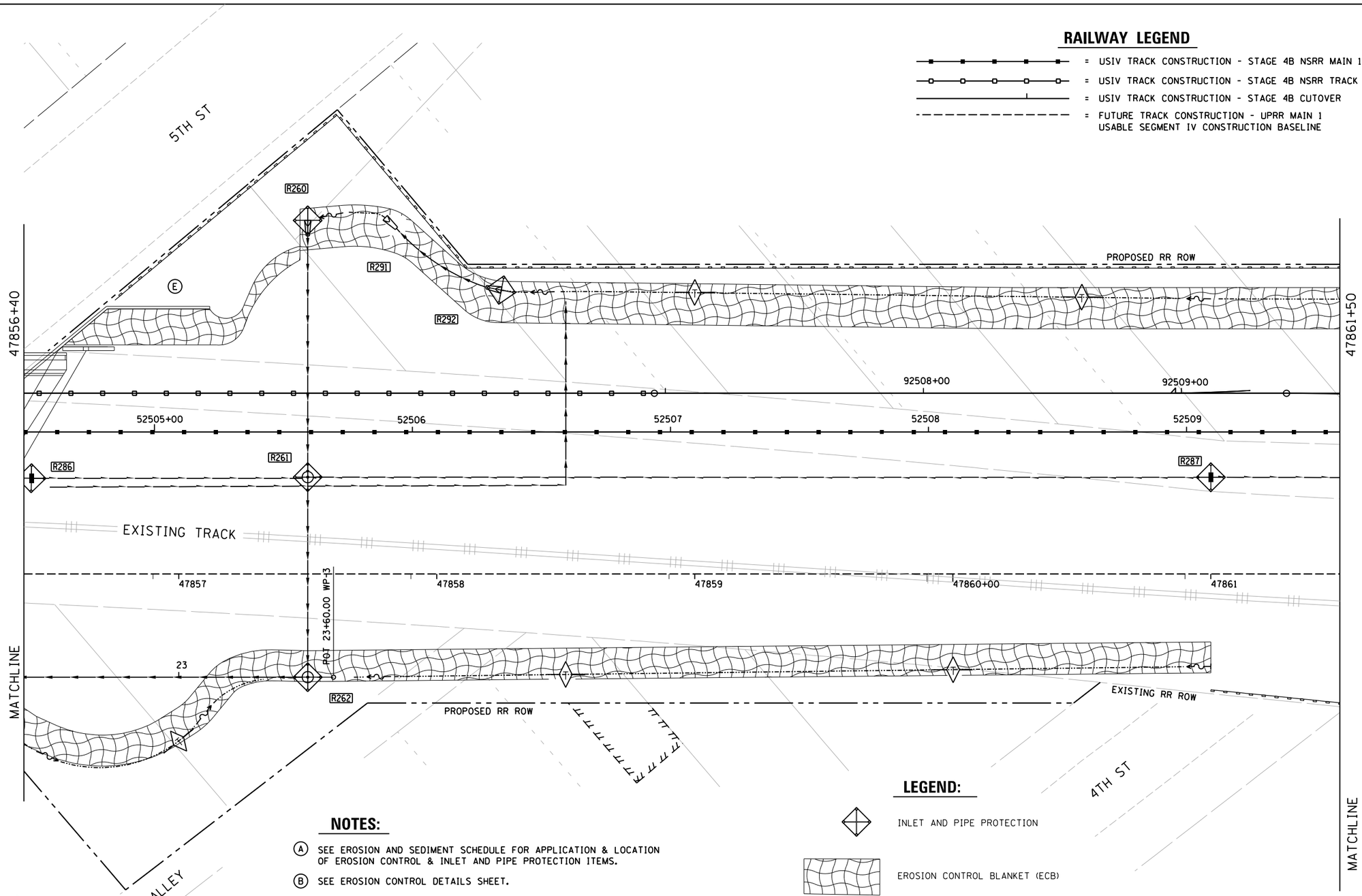
RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE



NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

(E) FIFTH AND SIXTH STREET UNDERPASS CONSTRUCTION STAGES REQUIRE THE CONTRACTOR TO MODIFY, EXTEND AND REINSTALL & MAINTAIN EROSION CONTROL ITEMS TO MEET REQUIREMENTS IN THE SPECIAL PROVISIONS.

LEGEND:

INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET (ECB)

PERIMETER EROSION BARRIER

R288 PROPOSED STORM STRUCTURE NO. SEE DRAINAGE SCHEDULES

TEMPORARY DITCH CHECK

0 20 40 60
SCALE IN FEET

FINAL

FILE NAME = D609L0179B-EROSION-US4-TRACK105.dgn PLAN1	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 6

SCALE: | SHEET 6 OF 9 SHEETS | STA. 47856+40 | TO STA. 47861+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	148
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

LEGEND:

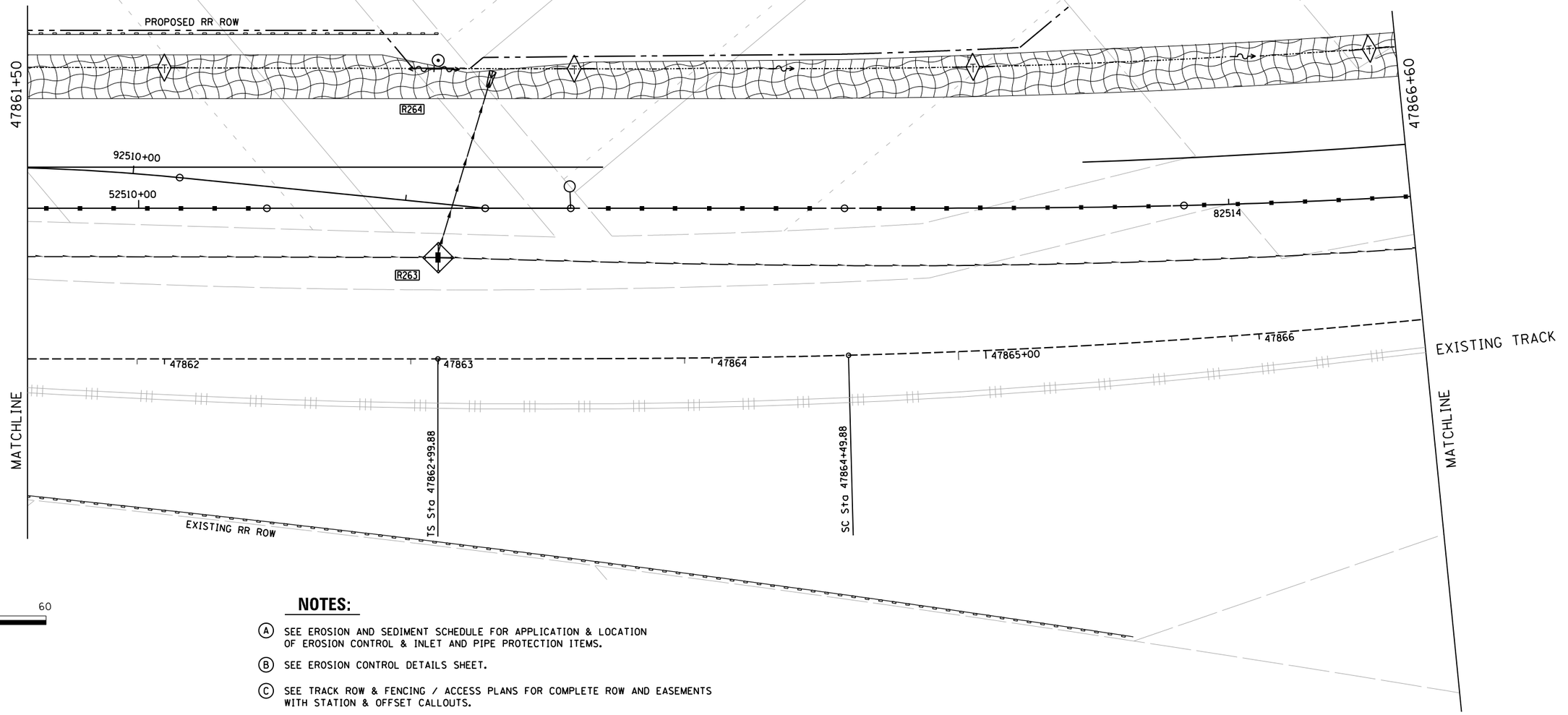
INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET (ECB)

PERIMETER EROSION BARRIER

R288 PROPOSED STORM STRUCTURE NO.
SEE DRAINAGE SCHEDULES

T TEMPORARY DITCH CHECK



NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

FINAL

FILE NAME = D609L0179B-EROSION-US4-TRACK186.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 7

SCALE: | SHEET 7 OF 9 SHEETS | STA. 47861+50 | TO STA. 47866+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	149
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

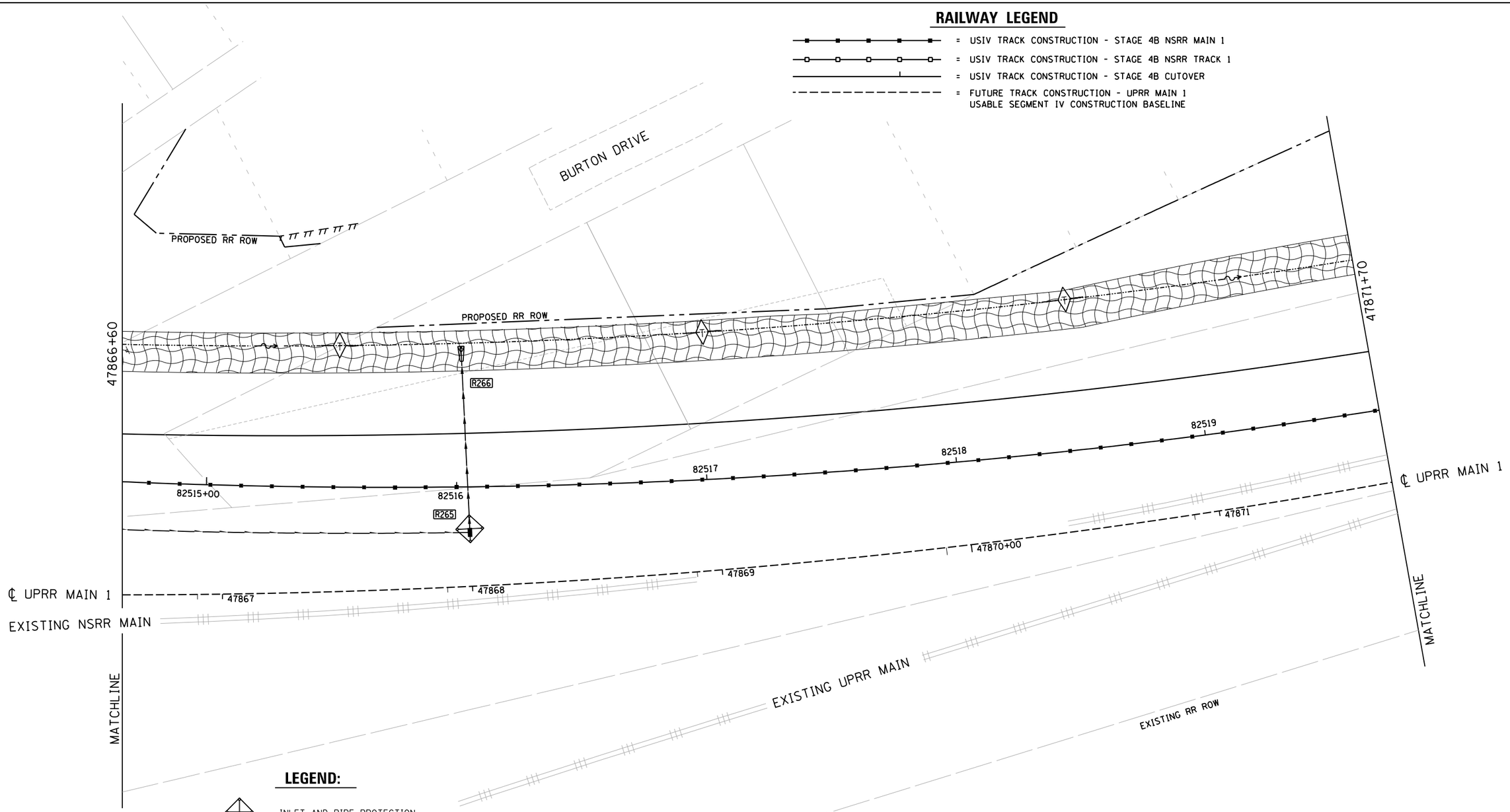
RAILWAY LEGEND

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE



LEGEND:

INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET (ECB)

PERIMETER EROSION BARRIER

R288 PROPOSED STORM STRUCTURE NO.
SEE DRAINAGE SCHEDULES

T TEMPORARY DITCH CHECK

N

0 20 40 60
SCALE IN FEET

NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

HANSON

FINAL

FILE NAME = D609L0179B-EROSION-US4-TRACK107.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 8

SCALE: | SHEET 8 OF 9 SHEETS | STA. 47866+60 TO STA. 47871+70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	150
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

RAILWAY LEGEND

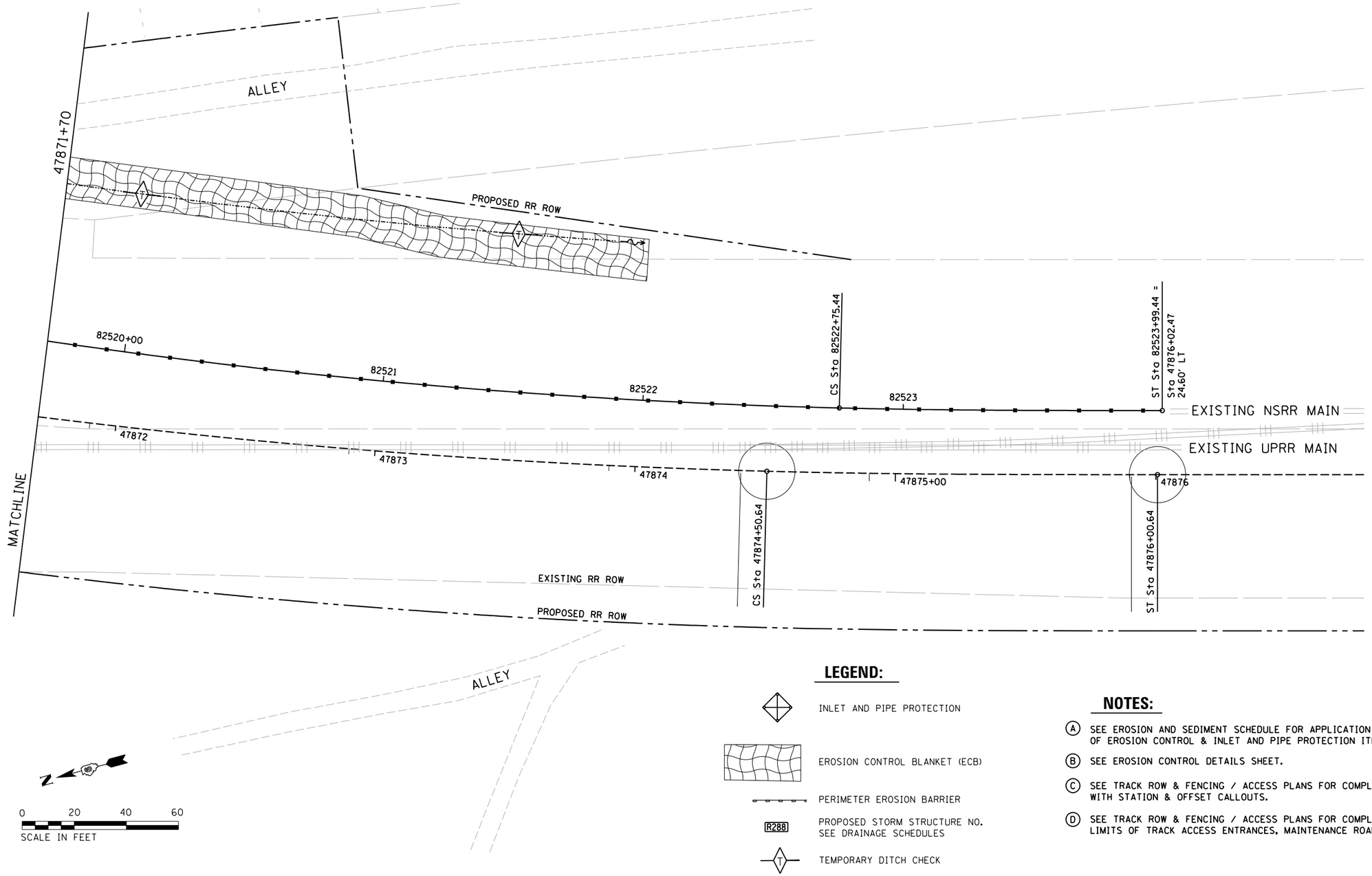
= USIV TRACK CONSTRUCTION - STAGE 4B NSRR MAIN 1

= USIV TRACK CONSTRUCTION - STAGE 4B NSRR TRACK 1

= USIV TRACK CONSTRUCTION - STAGE 4B CUTOVER

= FUTURE TRACK CONSTRUCTION - UPRR MAIN 1
USABLE SEGMENT IV CONSTRUCTION BASELINE

PROP. CURVE 187.4
PI STA. = 47869+55.36
Δ = 19° 52' 35" (LT)
D = 1° 59' 10"
R = 2,884.93'
T = 505.48'
L = 1,000.76'
E = 43.95'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 47864+49.88
P.T. STA = 47874+50.64



LEGEND:

INLET AND PIPE PROTECTION

EROSION CONTROL BLANKET (ECB)

PERIMETER EROSION BARRIER

R288 PROPOSED STORM STRUCTURE NO.
SEE DRAINAGE SCHEDULES

TEMPORARY DITCH CHECK

NOTES:

(A) SEE EROSION AND SEDIMENT SCHEDULE FOR APPLICATION & LOCATION OF EROSION CONTROL & INLET AND PIPE PROTECTION ITEMS.

(B) SEE EROSION CONTROL DETAILS SHEET.

(C) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE ROW AND EASEMENTS WITH STATION & OFFSET CALLOUTS.

(D) SEE TRACK ROW & FENCING / ACCESS PLANS FOR COMPLETE LIMITS OF TRACK ACCESS ENTRANCES, MAINTENANCE ROADS AND TURNAROUNDS.

FINAL

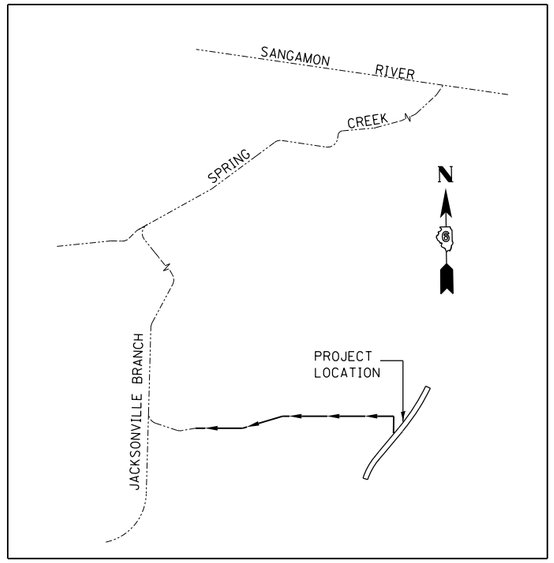
FILE NAME = D609L0179B-EROSION-US4-TRACK108.dgn	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
PLAN1	PLOT SCALE = 40.00 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL PLAN – TRACK – 9

SCALE: | SHEET 9 OF 9 SHEETS | STA. 47871+70 | TO STA. 47876+02.47

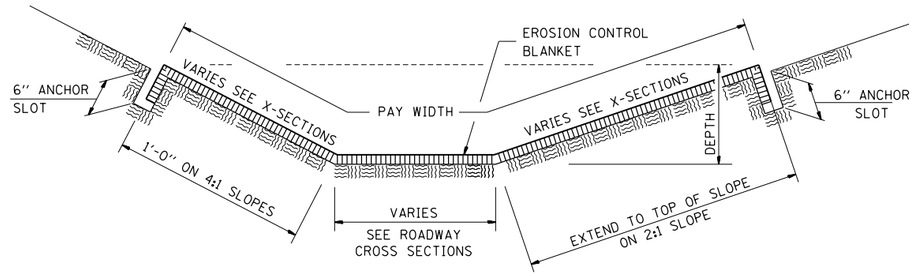
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	151
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		



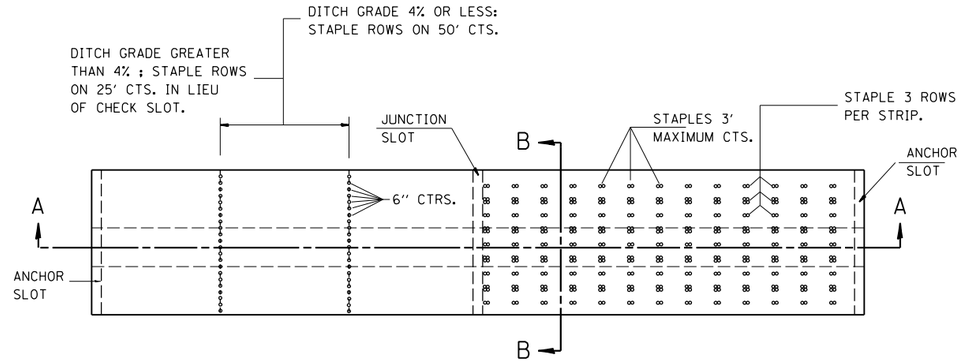
STORM WATER DISCHARGE SCHEMATIC

INTENDED SEQUENCE

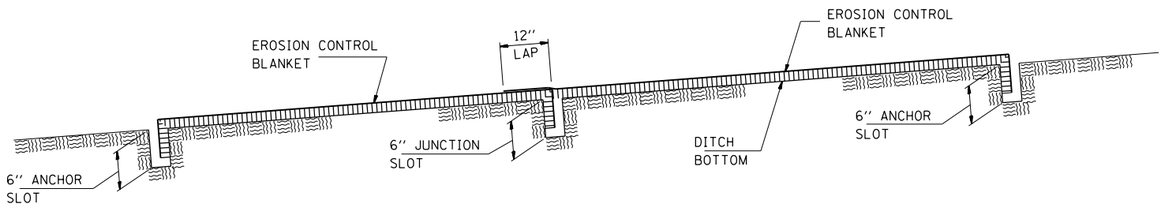
1. PLACEMENT OF THE PERIMETER EROSION BARRIER PRIOR TO ANY COMMENCEMENT OF OTHER WORK. SEE STANDARD 280001.
2. PLACEMENT OF INLET AND PIPE PROTECTION ON EXISTING STRUCTURES PRIOR TO COMMENCEMENT OF ANY WORK. PLACEMENT OF INLET AND PIPE PROTECTION AFTER CONSTRUCTION OF PROPOSED STRUCTURES. SEE STANDARD 280001
3. PLACEMENT OF TEMPORARY SEEDING ON GRADED SURFACES NOT HAVING PERMANENT SEEDING APPLIED.
4. PLACEMENT OF EROSION CONTROL BLANKET AFTER FINAL GRADING OF AREAS REQUIRING SUCH PROTECTION.
5. ONGOING MAINTENANCE OF EROSION CONTROL ELEMENTS PER SWPPP AND CITY OF SPRINGFIELDS EROSION CONTROL ORDINANCE.
6. REMOVE TEMPORARY EROSION CONTROL ELEMENTS AFTER FINAL GRADING AND PERMANENT SEEDING IS ESTABLISHED AS PER THE SWPPP AND APPROVED BY THE ENGINEER.



EROSION CONTROL BLANKET SECTION B–B



PLAN VIEW & STAPLING LAYOUT FOR EROSION CONTROL BLANKET PLACEMENT IN DITCH



EROSION CONTROL BLANKET SECTION A–A

FINAL

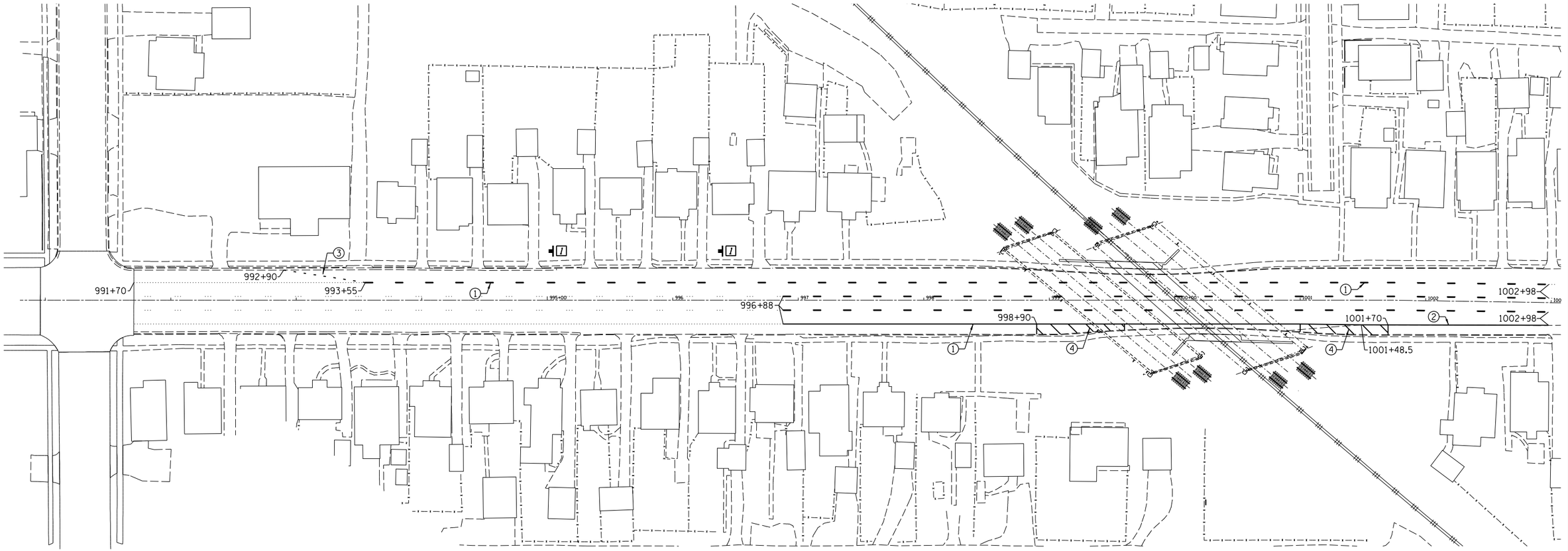
FILE NAME = D609L0179B-EROSION-US4-DETAILS-01.dgn PLAN1	USER NAME = Pop00275	DESIGNED - GCN	REVISED -
		DRAWN - CLG	REVISED -
	PLOT SCALE = 60.0000 ' / in.	CHECKED - JWM/GCN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
EROSION CONTROL DETAILS – TRACK

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	152
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



NO PARKING
4 PM-6 PM
MON-FRI
TOW-AWAY ZONE

NO PARKING
DURING SNOW EMERGENCY

I
R7-2A 12x18
WITH
CUSTOM
NO PARKING

LEGEND
(1) - THERMOPLASTIC PAVEMENT MARKING LINE - 5" (WHITE) - SKIP DASH 10' LINES 30' DASH
(2) - THERMOPLASTIC PAVEMENT MARKING LINE - 5" (SOLID WHITE)
(3) - THERMOPLASTIC PAVEMENT MARKING LINE - 6" (WHITE SKIP DASH) 2' LINES 6' DASH
(4) - THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)

PAVEMENT MARKING PLAN – 5TH STREET

PLAN

0' 40' 80'
SCALE: 1" = 40'

DESIGNED
DRAWN
CHECKED

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME = Pop00275	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 80.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
PAVEMENT MARKING PLAN – 5TH STREET

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	153
	09L0179B	CONTRACT NO. 93733		
	ILLINOIS FED. AID PROJECT			

LIGHTING FIXTURE SCHEDULE						
FIXT. TYPE	DESCRIPTION	MANUFACTURER & CATALOG NO.	LAMPS/ WATTS	VOLTS	MOUNTING	REMARKS
F1	4 FT. LED HIGH ABUSE LINEAR LIGHT FIXTURE, LIGHT OUTPUT EQUIVALENT TO 2-T8 FLUORESCENT LAMPS, 1/4" TEMPERED WHITE GLASS LENS, FULLY GASKETED WITH A MOLDED SILICONE GASKET.	BEGA: 24320 LED, K4-400K COLOR, W/85CRI, SLV OR APPROVED EQUIVALENT	LED 40K 20 WATTS	240	WALL MOUNTED TO CONCRETE WALL	
F2	CONTINUOUS ELECTROLUMINESCENT LIGHT TAPE. STANDARD DIMMING CAPABILITY, UV AND MOISTURE RESISTANT, LENGTHS AS NOTED ON THE PLANS, HIGHLY VISIBLE THROUGH SMOKE AND FOG, PROFILE TO BE THINNER THAN A CREDIT CARD, 0.25" CLEAR BARRIER ENCAPSULATED ENVELOPING ALL 4 SIDES OF THE LIGHT ENGINE, 40,000 HOUR EXPECTED LIFE, 3 BRIGHTNESS SETTINGS.	ELECTRO-LUMINIX LIGHTING:LT-200-EXTERIOR-CLASSIC NATURAL BLUE-LENGTH AS SHOWN ON THE PLANS OR APPROVED EQUIVALENT	0.75 WATTS PER FOOT	240	MOUNT TO THE FRONT FACE OF AESTHETIC TRUSS . SEE LIGHTING DETAILS FOR SPECIFIC LOCATIONS.	PROVIDE ALL REQUIRED POWER SUPPLIES IN A NEMA 4X JUNCTION BOX. PROVIDE ALL REQUIRED END CAPS AND SPLICE KITS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
F3	EXTERIOR SUFRACE MOUNTED LED FIXTURE, TWO-PIECE DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, LED DRIVER, IP 66 RATED, ACRYLIC LENS WITH TYPE 5 WIDE DISTRIBUTION.	LITHONIA: DSXPG LED-20C-350-40K-T5W-240	LED 40K 25 WATTS	240	SUSPENDED MOUNTING, SEE LIGHTING PLAN DETAILS	

LEGEND:

- L11 — FIXTURE REFERENCE NUMBER
- LUMINAIRE, LED, SPECIAL (F1)
- UNDERPASS LUMINAIRE (SPECIAL) (F3)
- LUMINAIRE, DECORATIVE ELECTROLUMINESCENT LIGHT TAPE (F2)
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4" UNLESS NOTED
- J1 — JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 2"x4"x3" (COST INCLUDED WITH LUMINAIRE)
- J2 — JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 4"x4"x3" (COST INCLUDED WITH LUMINAIRE)
- PS — POWER SUPPLY FOR ELECTROLUMINESCENT LIGHTING, SEE LIGHTING DETAILS
- UNDERGROUND CONDUIT
- CONDUIT ATTACHED TO STRUCTURE
- CONDUIT EMBEDDED IN STRUCTURE
- RELOCATED POLE LIGHT (BY OTHERS)

ALLEY

PROPOSED RR ROW

[1] 2 UNDERGROUND CONDUITS 2 - 1" DIA. PVC - 11' EACH

[1] 1 CONDUIT EMBEDDED IN STRUCTURE 1" DIA. PVC - 29' TO F2 AND F3 LIGHTING NSRR BRIDGE & F1 LIGHTING WEST WALL

NEW UTILITY TRANSFORMER 120/240V, 1Ø WITH METER. (ELECTRIC SERVICE INSTALLATION)

COORDINATE PRIMARY ELECTRICAL FEEDER WITH UTILITY (COST INCLUDED WITH ELECTRIC SERVICE INSTALLATION)

[2] LIGHTING CONTROLLER, BASE MOUNTED, 240V, 100A (ELECTRIC SERVICE INSTALLATION)

NSRR S.N. 084-9961

CONDUIT ATTACHED TO STRUCTURE - 1" DIA. PVC COATED GALV. STEEL - 6', 8' & 7' [1]

CONDUIT ATTACHED TO STRUCTURE - 1" DIA. PVC COATED GALV. STEEL - 14', 7' & 6' [1]

S.S. 12"x10"x6"

UPRR S.N. 084-9960

DECORATIVE ELECTROLUMINESCENT LIGHT TAPE - 145' TYPE F2, SEE LIGHT FIXTURE SCHEDULE

20'-6" (TYP.)

UTILITY POLE REMOVED BY OTHERS

[1] 1 CONDUIT EMBEDDED IN STRUCTURE 1" DIA. PVC - 168' TO F1 LIGHTING EAST WALL & F2 AND F3 LIGHTING UPRR BRIDGE

1 CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALV. STEEL - 149' FOR F3 LIGHTS [1]

5TH ST UNDERPASS

10'-8" 10'-8"

1000 1001 1002 1003

DECORATIVE ELECTROLUMINESCENT LIGHT TAPE - 147' TYPE F2, SEE LIGHT FIXTURE SCHEDULE

UTILITY POLE REMOVED BY OTHERS

20'-0" (TYP.)

[1] 1 CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALV. STEEL - 116' FOR F3 LIGHTS

JUNCTION BOX, CONDUIT AND CABLE, TYP. (COST INCLUDED WITH LUMINAIRE)

[1] 1 CONDUIT EMBEDDED IN STRUCTURE ¾" DIA. PVC - 100' FOR F1 LIGHTING WEST WALL

NSRR S.N. 084-9961

[1] 1 CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALV. STEEL - 8' 1 UNDERGROUND CONDUIT 1" DIA. PVC - 7'

UPRR S.N. 084-9960

PROPOSED RR ROW

EXISTING ROW

CROSS STREET

EXISTING ROW

0 20 40 60

SCALE IN FEET

NOTES:

1. PROPOSED RETAINING WALL
2. PROPOSED CURB AND GUTTER TYPE B-6.18

KEYED ELECTRICAL NOTES:

[1] ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 (TYPICAL WITHIN CONDUIT EMBEDDED IN STRUCTURE, UNDERGROUND CONDUIT OR CONDUIT ATTACHED TO STRUCTURE) PAY ITEM *81702450

[2] PROVIDE 2 - 240V, 20A CIRCUIT BREAKERS IN THE CONTROLLER.

1 - 20A/2P BREAKER TO FEED 6 - F1 FIXTURES ON EAST WALL, ELECTROLUMINESCENT LIGHT TAPE (TYPE F2) AND 6 - F3 FIXTURES ON UPRR BRIDGE.

1 - 20A/2P BREAKER TO FEED 6 - F1 FIXTURES ON WEST WALL, ELECTROLUMINESCENT LIGHT TAPE (TYPE F2) AND 6 - F3 FIXTURES ON NSRR BRIDGE.

HANSON

FINAL

FILE NAME = D609L0179B-Plan_Lighting_01.dgn	USER NAME = Pop00275	DESIGNED - RGC/RDN	REVISED -
		DRAWN - EJM	REVISED -
PLAN2	PLOT SCALE = 40.00 ' / in.	CHECKED - RDN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
LIGHTING PLAN – 5TH STREET

SCALE: | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	154
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

LEGEND:

- L11 — FIXTURE REFERENCE NUMBER
- LUMINAIRE, LED, SPECIAL (F1)
- UNDERPASS LUMINAIRE (SPECIAL) (F3)
- LUMINAIRE, DECORATIVE ELECTROLUMINESCENT LIGHT TAPE (F2)
- J — JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4" UNLESS NOTED
- J1 — JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 2"x4"x3" (COST INCLUDED WITH LUMINAIRE)
- J2 — JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 4"x4"x3" (COST INCLUDED WITH LUMINAIRE)
- PS — POWER SUPPLY FOR ELECTROLUMINESCENT LIGHTING, SEE LIGHTING DETAILS
- UNDERGROUND CONDUIT
- CONDUIT ATTACHED TO STRUCTURE
- CONDUIT EMBEDDED IN STRUCTURE
- RELOCATED POLE LIGHT (BY OTHERS)

PROP. CURVE SIX10100
PI STA. = 996+59.02
Δ = 1° 44' 17" (RT)
D = 0° 34' 23"
R = 10,000.00'
T = 151.68'
L = 303.35'
E = 1.15'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 995+07.33
P.T. STA. = 998+10.68

N

0 20 40 60
SCALE IN FEET

PRINCETON AVE.

PROPOSED RR ROW

EXISTING ROW

[1] 1 CONDUIT EMBEDDED IN STRUCTURE 1" DIA. PVC - 14' TO F2 AND F3 LIGHTING NSRR BRIDGE & F1 LIGHTING WEST WALL

2 UNDERGROUND CONDUITS 2 - 1" DIA. PVC - 31' EACH [1]

COORDINATE PRIMARY ELECTRICAL FEEDER WITH UTILITY (COST INCLUDED WITH ELECTRIC SERVICE INSTALLATION)

NEW UTILITY TRANSFORMER 120/240V, 1Ø WITH METER. (ELECTRIC SERVICE INSTALLATION)

[2] LIGHTING CONTROLLER, BASE MOUNTED, 240V, 100A (ELECTRIC SERVICE INSTALLATION)

NSRR S.N. 084-9963

S.S. 12"x10"x6"

CONDUIT ATTACHED TO STRUCTURE - 1" DIA. PVC COATED GALV. STEEL - 7', 11' & 5'

CONDUIT ATTACHED TO STRUCTURE - 1" DIA. PVC COATED GALV. STEEL - 15', 8' & 6'

UPRR S.N. 084-9962

S.S. 12"x10"x6"

1 CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALV. STEEL - 145' FOR F3 LIGHTS [1]

[2] 1 CONDUIT EMBEDDED IN STRUCTURE 1" DIA. PVC - 164' TO F1 LIGHTING EAST WALL & F2 AND F3 LIGHTING UPRR BRIDGE [1]

22'-0" (TYP.)

PT Sta 998+10.68

6TH ST UNDERPASS

1002 1001 1000

DECORATIVE ELECTROLUMINESCENT LIGHT TAPE - 149' TYPE F2, SEE LIGHT FIXTURE SCHEDULE

DECORATIVE ELECTROLUMINESCENT LIGHT TAPE - 140' TYPE F2, SEE LIGHT FIXTURE SCHEDULE

20'-0" (TYP.)

10'-8" 10'-8"

[1] 1 CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALV. STEEL - 120' FOR F3 LIGHTS

JUNCTION BOX, CONDUIT AND CABLE, TYP. (COST INCLUDED WITH LUMINAIRE)

EXISTING ROW

BROAD PLACE

PROPOSED RR ROW

NSRR S.N. 084-9963

[1] 1 CONDUIT EMBEDDED IN STRUCTURE ¾" DIA. PVC - 101' FOR F1 LIGHTING WEST WALL

[1] 1 CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALV. STEEL - 6' 1 UNDERGROUND CONDUIT 1" DIA. PVC - 13'

PROPOSED RR ROW

UPRR S.N. 084-9962

NOTES:

(1) PROPOSED RETAINING WALL
(2) EXISTING STREET SIDE RETAINING WALL

SEE LIGHTING FIXTURE SCHEDULE ON SHEET 1 OF 5

KEYED ELECTRICAL NOTES:

[1] ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 (TYPICAL WITHIN CONDUIT EMBEDDED IN STRUCTURE, UNDERGROUND CONDUIT OR CONDUIT ATTACHED TO STRUCTURE) PAY ITEM *81702450

[2] PROVIDE 2 - 240V, 20A CIRCUIT BREAKERS IN THE CONTROLLER.

1 - 20A/2P BREAKER TO FEED 6 - F1 FIXTURES ON EAST WALL, ELECTROLUMINESCENT LIGHT TAPE (TYPE F2) AND 6 - F3 FIXTURES ON UPRR BRIDGE.

1 - 20A/2P BREAKER TO FEED 6 - F1 FIXTURES ON WEST WALL, ELECTROLUMINESCENT LIGHT TAPE (TYPE F2) AND 6 - F3 FIXTURES ON NSRR BRIDGE.

HANSON

FINAL

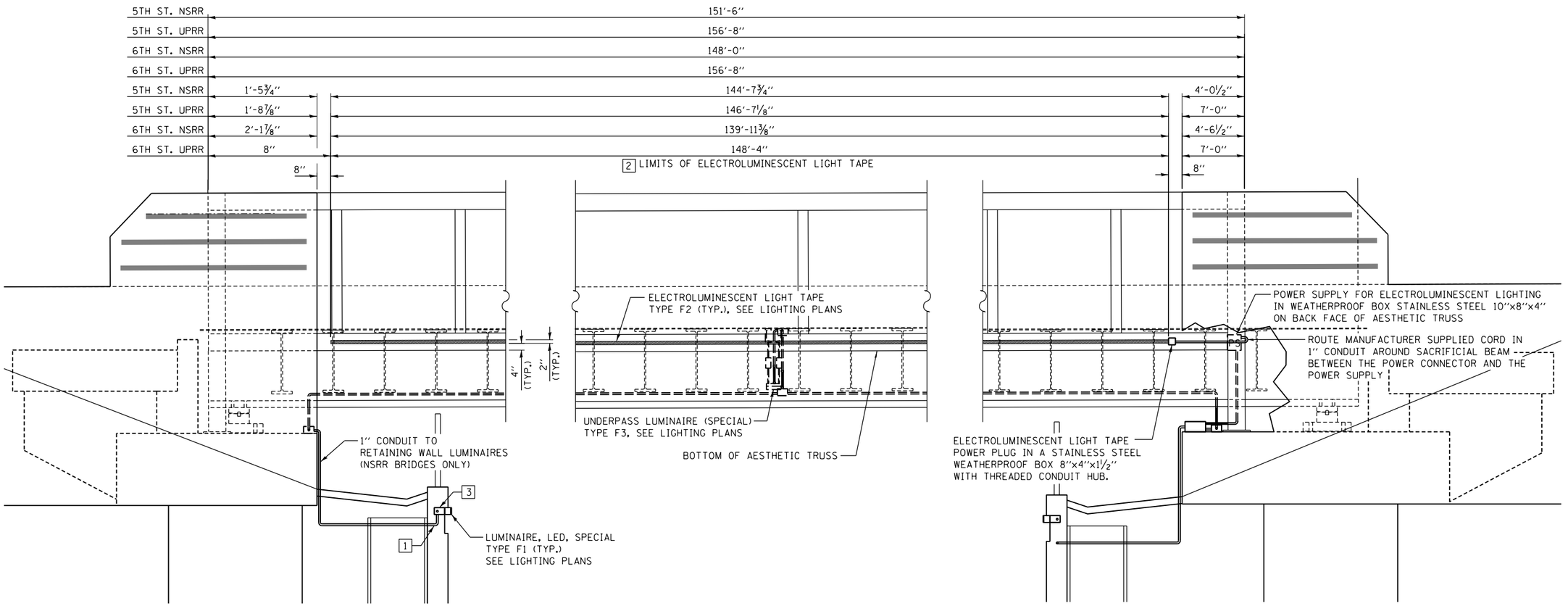
FILE NAME = D609L0179B-Plan_Lighting_01.dgn	USER NAME = Pop00275	DESIGNED - RGC/RDN	REVISED -
		DRAWN - EJM	REVISED -
	PLOT SCALE = 40.00 ' / in.	CHECKED - RDN	REVISED -
PLAN1	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
LIGHTING PLAN – 6TH STREET

SCALE: | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	155
	09L0179B	CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



BRIDGE ELEVATION

(LOOKING NORTH, NSRR BRIDGE)
(LOOKING SOUTH, UPRR BRIDGE SIMILAR)

KEYED NOTES:

1. TYPICAL ELECTRICAL CONDUITS EMBEDDED IN STRUCTURE 3/4" DIA. PVC. SEE LIGHTING PLAN FOR LOCATIONS AND NUMBER OF CONDUITS REQUIRED.
2. COORDINATE EXACT LENGTH OF LIGHT TAPE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS AND EXACT SIZE OF WEATHERPROOF J-BOX PROTECTING LIGHT TAPE POWER CONNECTOR
3. JUNCTION BOX - STAINLESS STEEL EMBEDDED IN STRUCTURE, 2"x4"x3". COST INCLUDED WITH LUMINAIRE.

FINAL

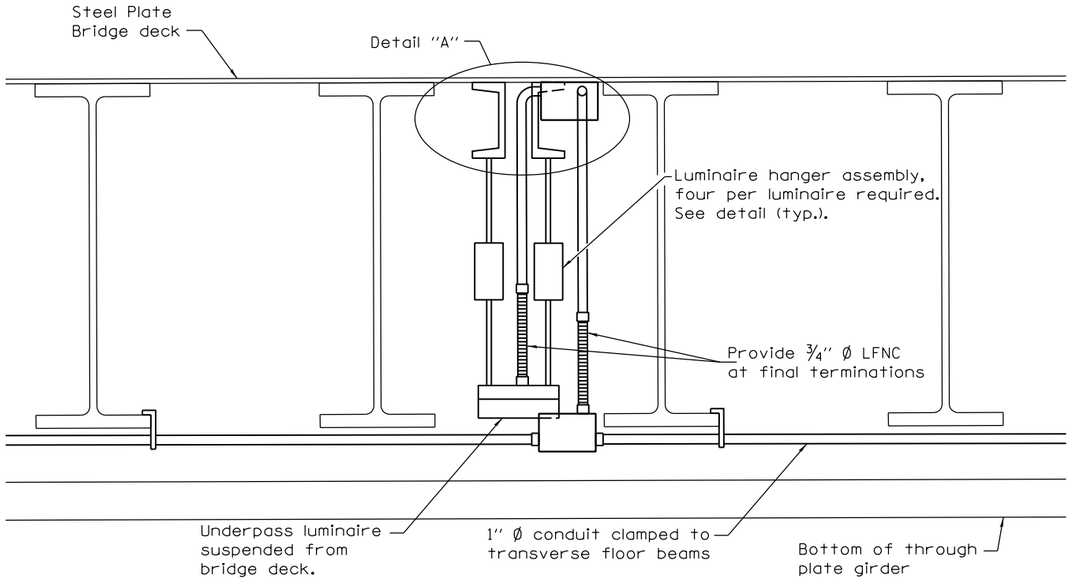
FILE NAME = D609L0179B-Details-Lighting.dgn	USER NAME = Pop00275	DESIGNED - RGC/RDN	REVISED -
		DRAWN - EJM	REVISED -
Sheet 1	PLOT SCALE = 0.1667 ' / in.	CHECKED - RDN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

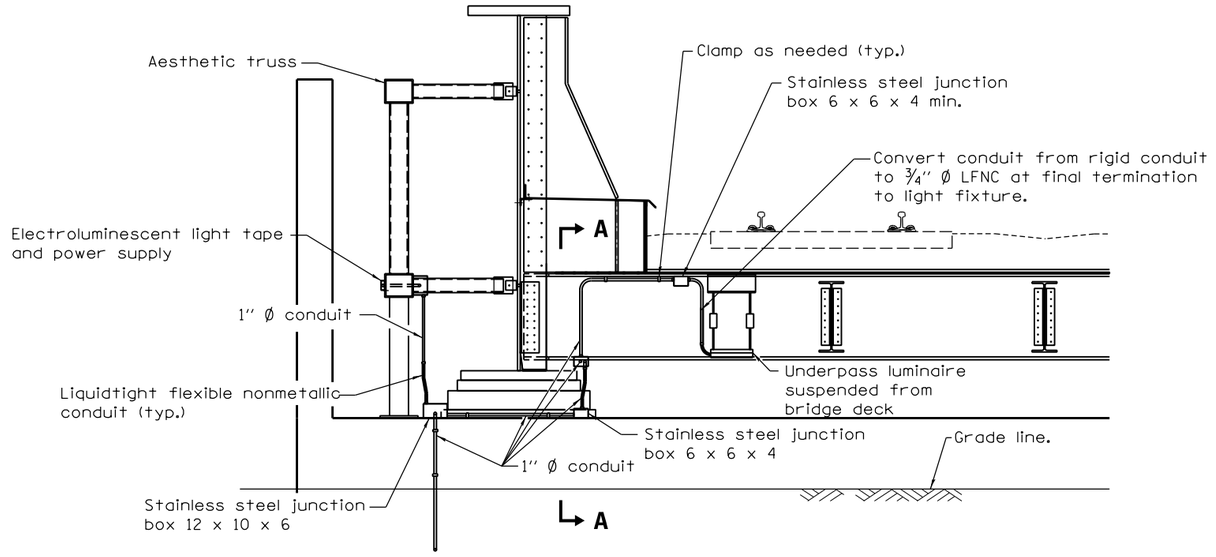
SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
LIGHTING DETAILS – BRIDGE TRUSS

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

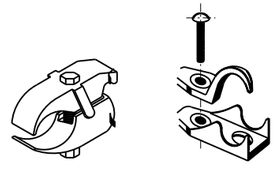
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	156
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		



SECTION A–A

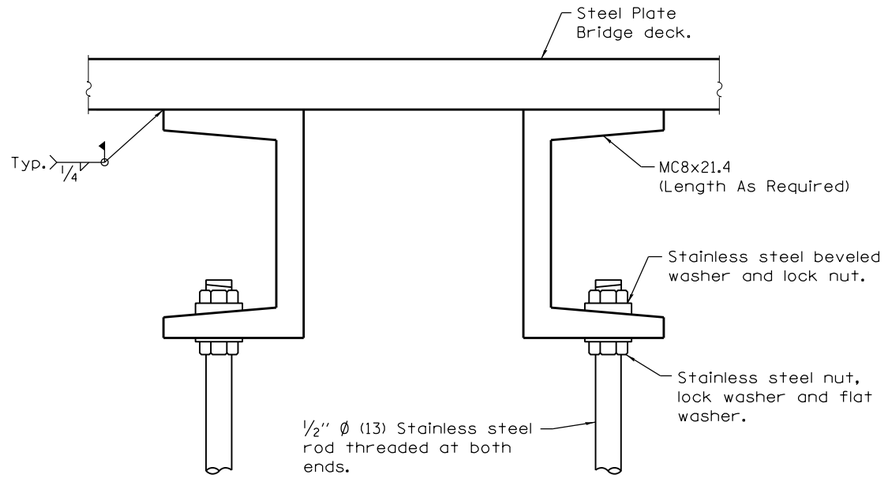


ABUTMENT ELEVATION

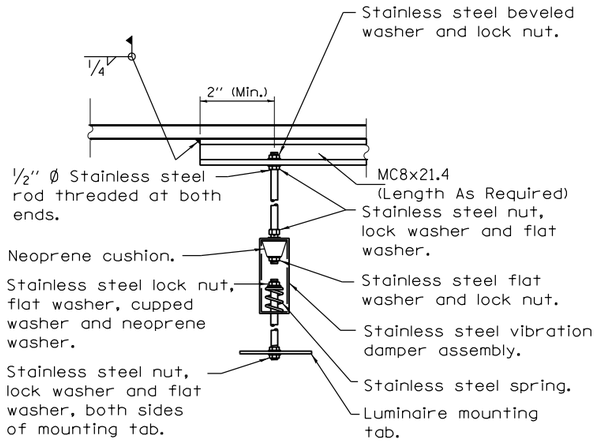


CONDUIT BEAM CLAMP

CONDUIT CLAMP



DETAIL "A"



LUMINAIRE HANGER ASSEMBLY DETAIL

GENERAL NOTES

Underpass Luminaires shall be installed and operational on the NSRR bridges at the end of Stage 1 and on the UPRR bridges at the end of Stage 4A.

No field drilling of the steel plate bridge deck will be allowed.

See plans for underpass luminaire locations.

Underpass luminaires shall be centered between transverse floor beams unless otherwise directed by the Engineer.

Optics of underpass luminaires shall be installed 1 inch above the bottom of the floor beams with no parts of the luminaire or attached conduit below the plane of the bottom of the through plate girders.

No conduits or junction boxes shall be attached to the through plate girder.

Stainless steel conduit shall be used beneath any openings in the bridge deck.

All dimensions are in inches (millimeters) unless otherwise shown.

Clamps should not be fastened to steel bridge deck directly. Contractor shall weld small plates to deck where clamps necessary and attach the clamp to the small plate. Cost included with conduit attached to structure.

FINAL

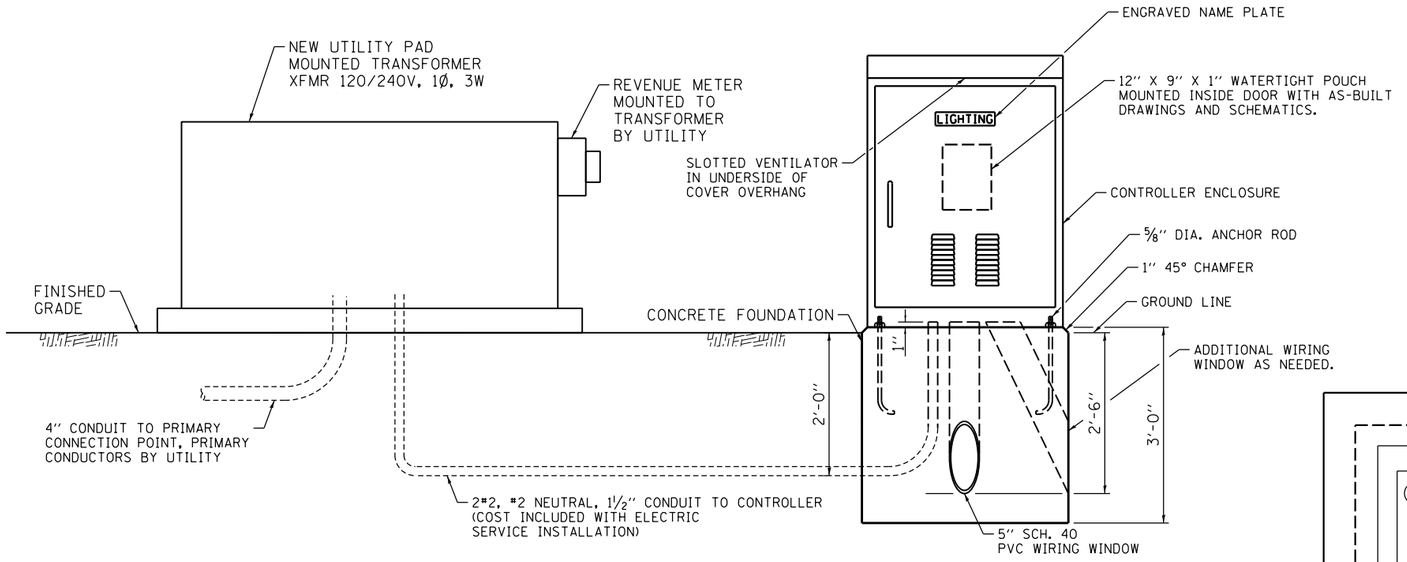
FILE NAME = D609L0179B-Details-Lighting.dgn	USER NAME = Pop00275	DESIGNED - RGC/RDN	REVISED -
		DRAWN - EJM	REVISED -
Sheet 2	PLOT SCALE = 0.1667 ' / in.	CHECKED - RDN	REVISED -
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPRINGFIELD RAIL IMPROVEMENTS PROJECT
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS
LIGHTING DETAILS – UNDER BRIDGE

SCALE: | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	157
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

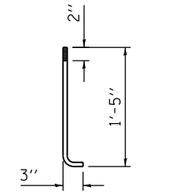


CONTROL INSTALLATION

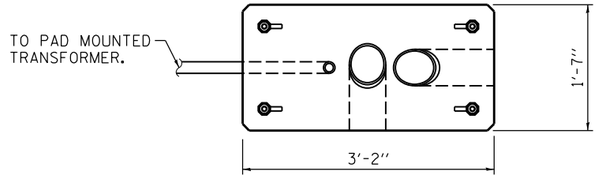
(FRONT VIEW)

CONTROL SCHEMATIC

1. PHOTOCELL WITH INTEGRAL SURGE ARRESTER.
2. HAND-OFF-AUTO SELECTOR SWITCH.
3. 100 AMP, ELECTRICALLY HELD CONTACTOR.
4. 15 AMP, 1-POLE CIRCUIT BREAKER.
5. 20 AMP, 2-POLE CIRCUIT BREAKER
6. SURGE ARRESTER.
7. GFCI DUPLEX RECEPTACLE.
8. SINGLE-POLE, SINGLE-THROW SWITCH.
9. INCANDESCENT LUMINAIRE, ENCLOSED AND GASKETTED WITH 100 WATT LAMP.
10. 100 AMP•, 2-POLE CIRCUIT BREAKER.
11. TERMINAL BLOCK SIZED FOR CONDUCTORS AS SHOWN ON PLANS.



ANCHOR ROD DETAIL



FOUNDATION

(TOP VIEW)

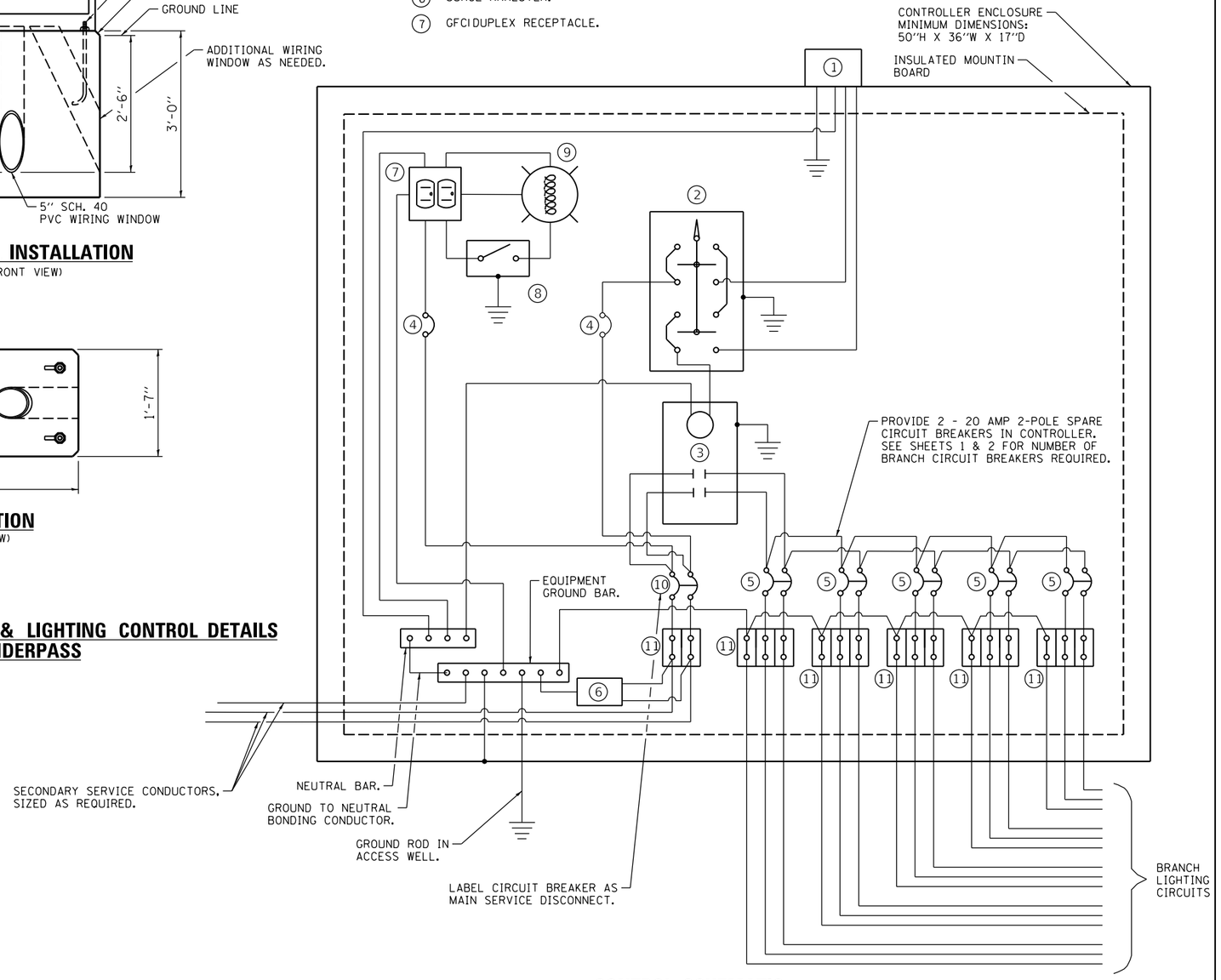
☒ 240 V. SERVICE

☐ 480 V. SERVICE

TYPICAL ELECTRICAL SERVICE INSTALLATION & LIGHTING CONTROL DETAILS
5TH & 6TH STREET UNDERPASS

SERVICE NOTES:

1. CONTRACTOR SHALL VERIFY AND COORDINATE SERVICE ENTRANCE WORK WITH THE SERVING ELECTRIC UTILITY COMPANY.
2. ALL METAL CONDUITS TERMINATING IN SERVICE EQUIPMENT (METER BASE & SERVICE BREAKER) SHALL HAVE GROUND BUSHING TYPE HUBS WITH BONDING JUMPERS TO THE RESPECTIVE GND BUS.
3. SEE CONTROL INSTALLATION AND FOUNDATION DETAILS ON THIS SHEET AND PLAN SHEETS 1 THROUGH 4 OF 5 FOR CONDUIT & WIRE SIZES & TYPES
4. UNLESS OTHERWISE NOTED, WORK SHOWN ON ELECTRIC SERVICE INSTALLATION DETAIL, INCLUDING COORDINATION WITH UTILITY COMPANY, SHALL BE PAID FOR AS ELECTRIC SERVICE INSTALLATION.
5. RACEWAYS SHALL TERMINATE 3" ABOVE TOP OF CONCRETE FOUNDATION.



CONTROL SCHEMATIC

HANSON

FINAL

FILE NAME = D609L0179B-Details-Lighting.dgn	USER NAME = Pop00275	DESIGNED - RGC/RDN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SPRINGFIELD RAIL IMPROVEMENTS PROJECT SPRINGFIELD, SANGAMON COUNTY, ILLINOIS LIGHTING DETAILS – CONTROLLER
		DRAWN - EJM	REVISED -		
Sheet 3	PLOT SCALE = 0.1667 ' / in.	CHECKED - RDN	REVISED -		SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.
	PLOT DATE = 4/10/2019	DATE - 03/15/2019	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	158
	09L0179B	CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
666 666 ALT	(109) VB, (110) VB-5	SANGAMON	382	159
	ILLINOIS	CONTRACT NO. 93733		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS
USABLE SEGMENT IV

F.A.P. ROUTE 666 ALT. (FIFTH STREET) & F.A.P. ROUTE 666 (SIXTH STREET) AT 10TH ST. CORRIDOR / RR UNDERPASS

SECTION (109) VB, (110) VB–5, LRS SECTION 18–00478–00–BR

PROJECT MFYW(203)

STRUCTURE REPLACEMENT

CITY OF SPRINGFIELD, SANGAMON COUNTY
C–96–051–18

VOLUME II
STRUCTURES
&
CROSS SECTIONS

FINAL PLANS

Benchmark:
BM# D2218-07 - Chiseled 'X' on West Bolt of fire hydrant - SE Quad 6th Street and Wellesly Avenue.
Elevation = 598.884

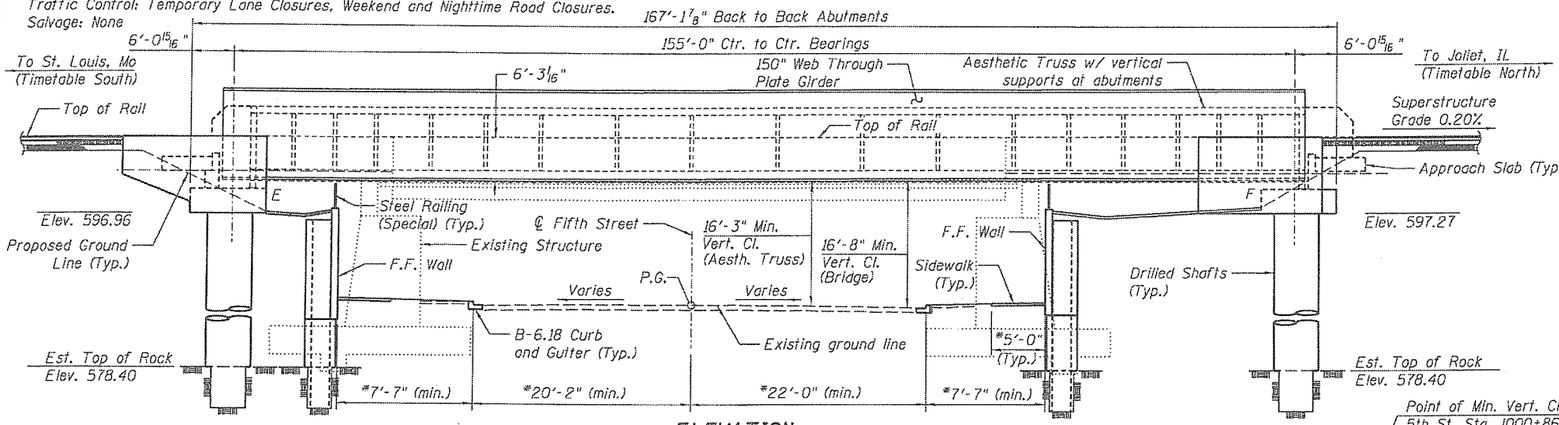
Existing Structure: SN 084-0032 - Built in 1961 under 109-15B. Steel through plate girder structure supported on closed abutments. Bk. to Bk. Abutment length is 95'-3" and ctr. to ctr. through girder width of 18'-6". Structure to be removed and replaced.

Construction Sequence: For Sequence and Details, See Retaining Wall General Data Sheet.

Traffic Control: Temporary Lane Closures, Weekend and Nighttime Road Closures.

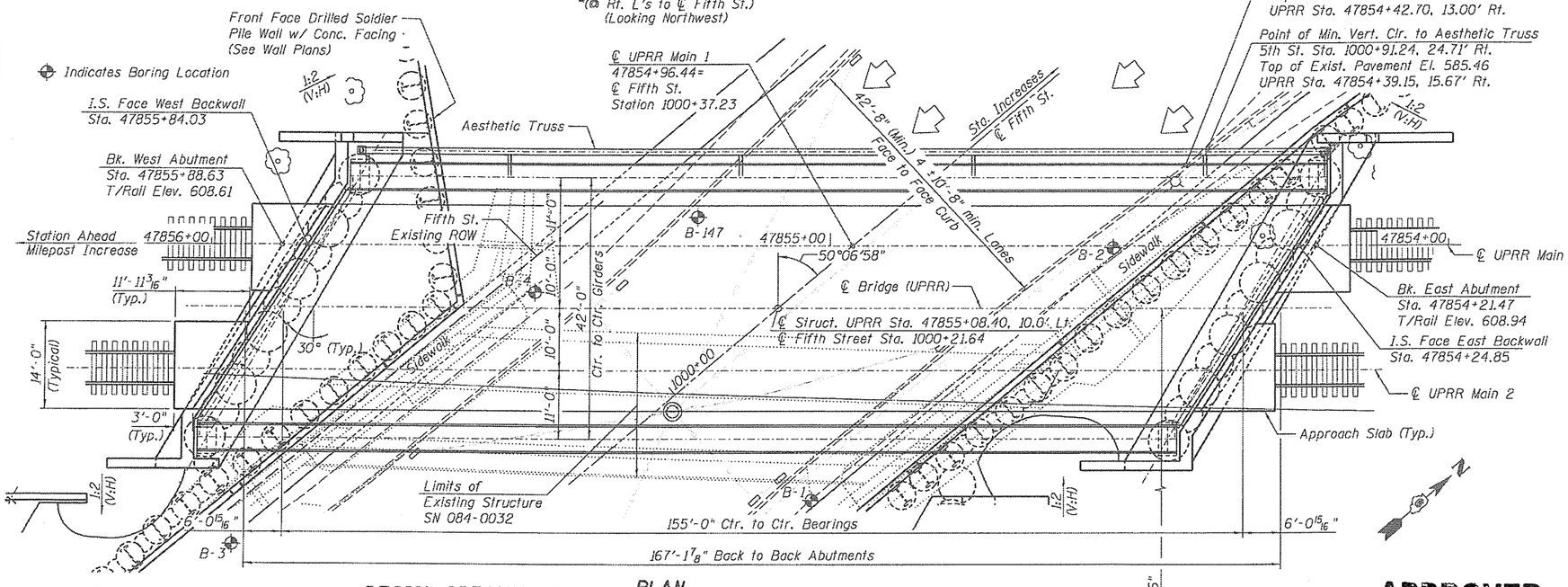
Salvage: None

Railroad utilities may exist within existing NSRR right-of-way. Prior to the start of any construction or excavation, utility relocations will have to be coordinated with the NSRR.

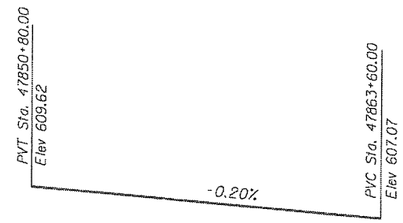


ELEVATION

*(℄ Rt. L's to ℄ Fifth St.)
(Looking Northwest)

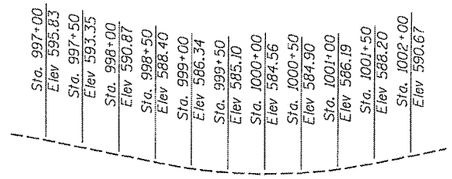


PLAN



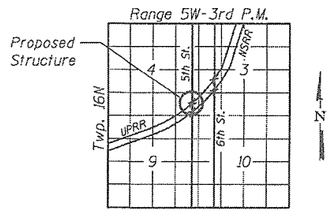
PROFILE GRADE - UPRR MAIN 1

(Along Top of Rail)



EXISTING PROFILE GRADE FIFTH STREET

Along ℄ of Fifth St.



LOCATION SKETCH

LOADING COOPER E-80

Impact: Diesel Impact
Allow 30" of Ballast Dead Load

DESIGN SPECIFICATIONS

2017 AREMA Specifications
Live Load Deflection: L/640
Composite Design for Floorbeam Defl. Req.
Design Speed: 50 m.p.h.

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (ASTM A709 Grade 50)

SEISMIC DATA

AREMA

Ground Motion Level	PGA	S_s	S_1
Level 1 (100 Year)	0.010	0.025	0.005
Level 2 (475 Year)	0.040	0.090	0.035
Level 3 (2475 Year)	0.10	0.22	0.10

Soil Site Class = C

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AREMA Specifications.

LICENSED STRUCTURAL ENGINEER
MATTHEW J. WILLEY
081-006588
STATE OF ILLINOIS

Matthew J Willey
SIGNATURE
4-12-2019
DATE

LIC. EXP. DATE: 11-30-2020

GENERAL PLAN & ELEVATION
UPRR (MP 186.99) OVER BUSINESS 55 (5TH ST.)
F.A.P. 666 ALT.- SECTION (109)VB, (110)VB-5
SANGAMON COUNTY
UPRR SUBDIVISION - SPRINGFIELD
STATION 47855+08.40
STRUCTURE NO. 084-9960

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FINAL

FILE NAME =	USER NAME = PopD8275	DESIGNED - MJW	REVISED -
		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 62.8800 '/ / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

HANSON

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE 084-9960 – 5TH ST UPRR
SHEET NO. 1 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(109) VB,(110) VB-5	SANGAMON	382	160
		CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$in. ϕ, holes $\frac{15}{16}$in. ϕ, unless otherwise noted.
2. Calculated weight of Structural Steel, ASTM A709, Gr. 50 = 1,701,120 lbs.
   ASTM A36, Gr. 36 = 29,020 lbs.
   ASTM A500, Gr. 46 = 31,230 lbs.
3. All structural steel shall be ASTM A709 Grade 50 unless otherwise noted on the plans.
4. All substructure concrete shall have a compressive strength of 4,000 psi at 14 days.
5. No field welding is permitted except as specified in the contract documents.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
8. Concrete Sealer shall be applied to the following surfaces:
   Abutments - inside face of backwall, inside face of cheekwall, top of cap, (except surfaces coated with surface color treatment).
   Concrete Surface Color Treatment shall be applied to the following surfaces:
   Abutments - concrete facing, wingwall and cheekwall surfaces coated with concrete surface color treatment.
9. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. All coatings on faying surfaces shall satisfy RCSC requirements for Class B slip coefficient. The color of the final finish coat for girder flanges, all interior steel surfaces, bottom of deck plate, and aesthetic truss shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for a 5.5 foot tall strip on the exterior face of girder web starting 4 foot down from the top flange shall be blue, Munsell No. 10B 3/6. See painting diagram for more information.
10. Waterproofing shall be applied to the backside of the abutment cap and backwall and backside of wingwalls for surfaces below ground. This shall be according to Article 503.18 of the Std. Spec. Cost included with Concrete Structures.

Drilled shaft cross-hole sonic log (CSL) testing:

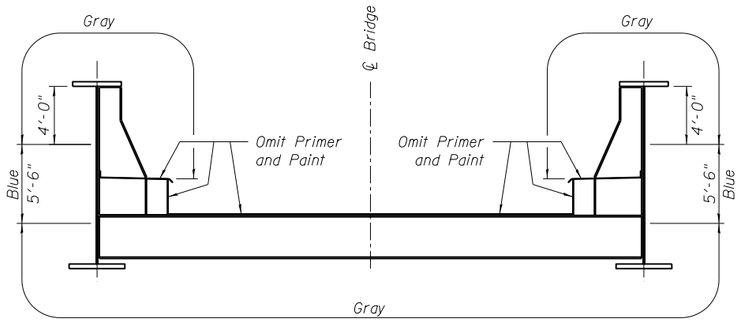
A) Drilled shafts shall be evaluated by cross-hole sonic log testing. Testing pipes shall be installed in each drilled shaft to facilitate the logging process, which will follow completion of each shaft.

B) Furnish and install six standard 2 inch nominal diameter steel pipes (ASTM A53, Grade B) for use in CSL testing of each drilled shaft. Pipes shall be equally spaced around the interior of the reinforcing steel cage.

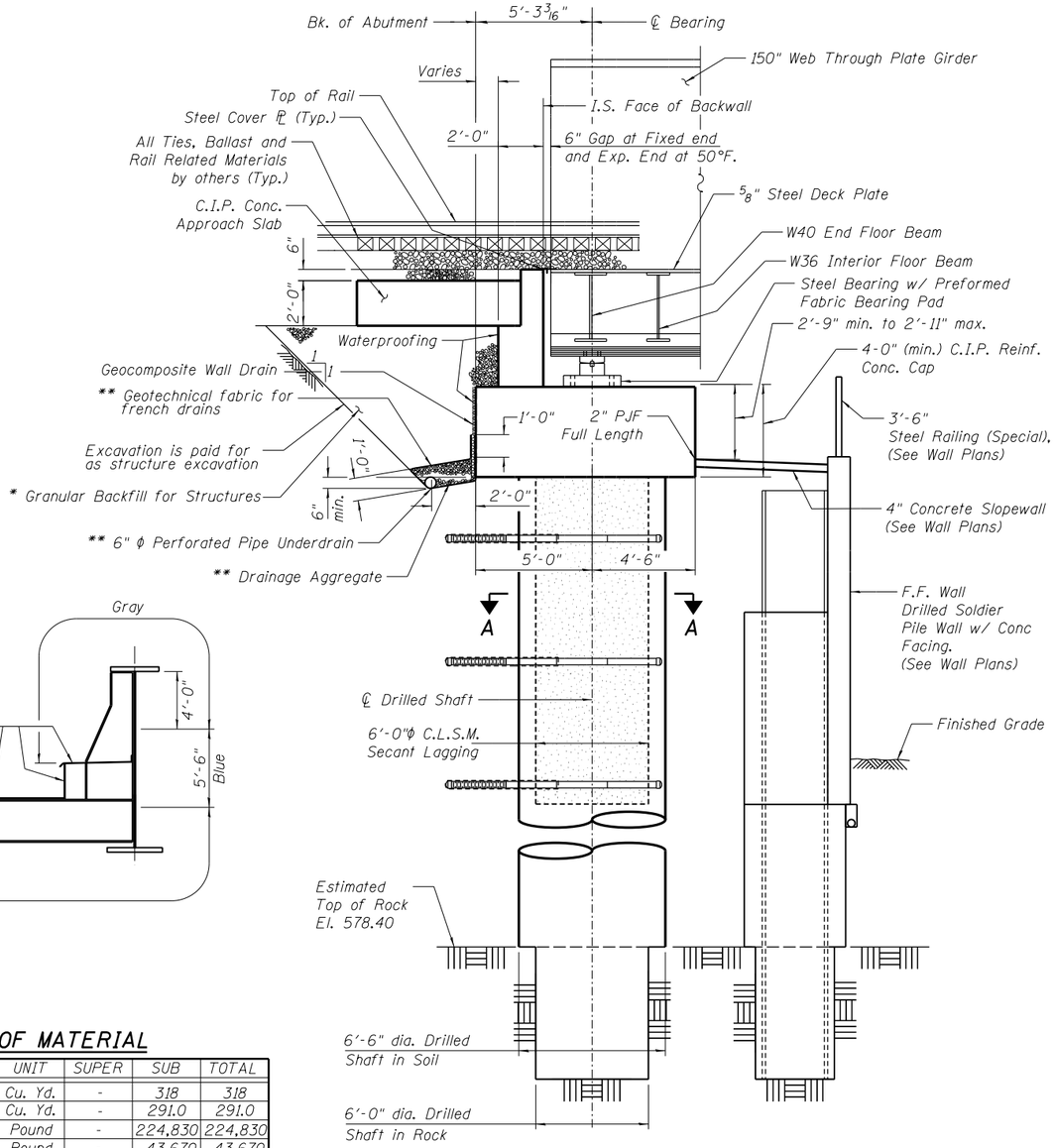
C) Pipes shall be fitted with a screw-on watertight shoe and cap and shall be securely fixed to the interior of the reinforcing steel cage. Watertight joints shall be used to achieve the required length. The pipes shall be filled with water and plugged or capped before concrete placement. The upper end of the pipe shall not be left open during or after concrete placement. The pipes shall extend at least 2'-6" above the top of the drilled shaft concrete.

D) CSL testing will be completed by the Engineer at no cost to the Contractor. If CSL test results are unsatisfactory according to the Engineer, the Contractor shall propose a method of correction including designs if required to the Engineer for approval. The correction shall be at the expense of the Contractor.

INDEX OF SHEETS

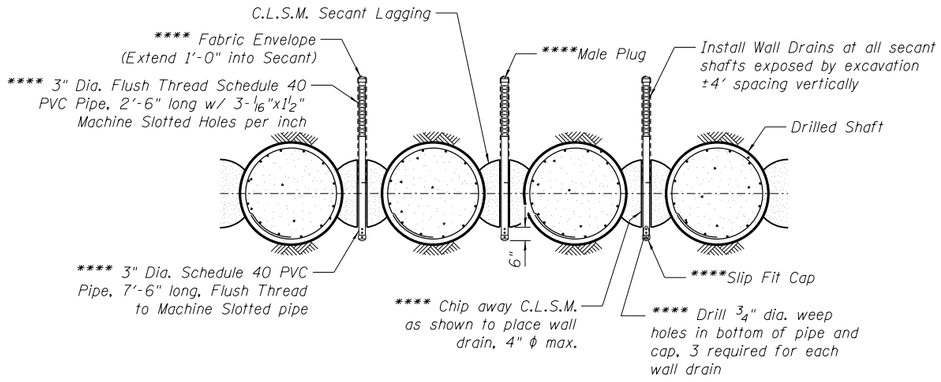


PAINTING DIAGRAM



ABUTMENT SECTION

(At Rt. L's to Back of Abutment)



SECTION A-A

**** Included in the cost of Secant Lagging

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.	-	318	318
Concrete Structures	Cu. Yd.	-	291.0	291.0
Reinforcement Bars	Pound	-	224,830	224,830
Reinforcement Bars, Epoxy Coated	Pound	-	43,670	43,670
Name Plates	Each	-	1	1
Drilled Shaft in Soil	Cu. Yd.	-	276.0	276.0
Drilled Shaft in Rock	Cu. Yd.	-	182.2	182.2
Secant Lagging	Cu. Ft.	-	5,292	5,292
Membrane Waterproofing (Special)	Sq. Ft.	6,212	-	6,212
Concrete Sealer	Sq. Ft.	-	1,790	1,790
Geocomposite Wall Drain	Sq. Yd.	-	52	52
Drainage System, No. 1	Each	1	-	1
Crosshole Sonic Logging Access Ducts	Foot	-	2,571	2,571
Concrete Surface Color Treatment	Sq. Ft.	-	12	12
Granular Backfill for Structures	Cu. Yd.	-	183	183
Furnishing and Erecting Structural Steel, Bridge No. 1	L. Sum	1	-	1
Pipe Underdrains for Structures, 6"	Foot	-	158	158

Notes:

West Abutment Section is Shown, East Similar.

* Granular Backfill for Structures Shall Be Placed and Compacted According to Section 502.10 of the Standard Specifications.

** Included in the cost of "Pipe Underdrains for Structures, 6". For additional drainage details see Railway Plans.

UNION PACIFIC RAILROAD
S.N. 084-9960 BUILT 20__ BY
CITY OF SPRINGFIELD
SEC. (109)VB, (110)VB-5
STATION 47855+08.40
MILE POST 186.99
LOADING COOPER E-80

NAME PLATE

See Std. 515001

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FINAL

FILE NAME =

HANSON

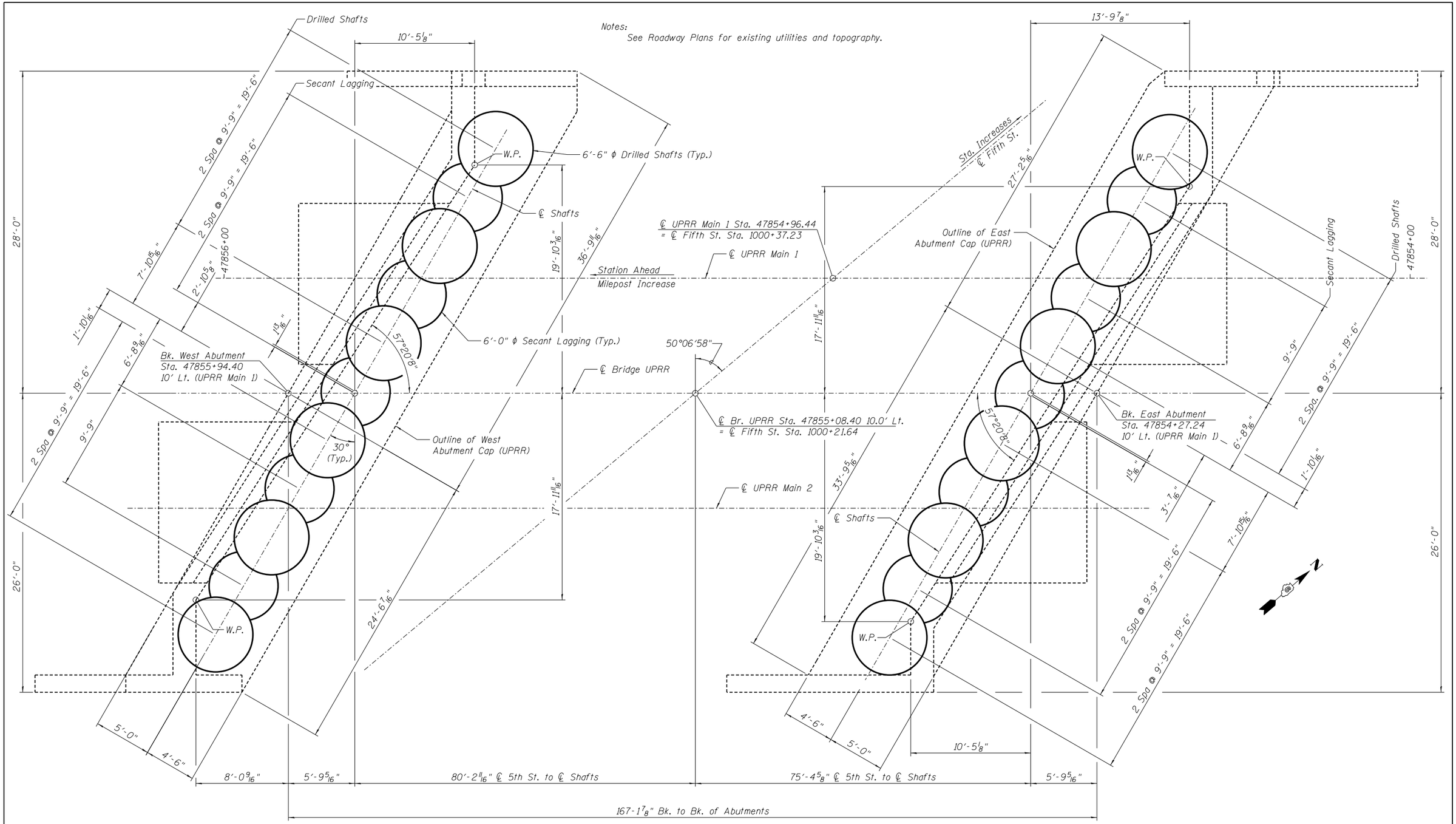
USER NAME = Pop00275	DESIGNED - MJW	REVISED -	
	CHECKED - TJH/TDP	REVISED -	
PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -	
PLOT DATE = 4/12/2019	CHECKED - MJW	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 2 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	161
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

Notes:
See Roadway Plans for existing utilities and topography.



FOUNDATION LAYOUT PLAN

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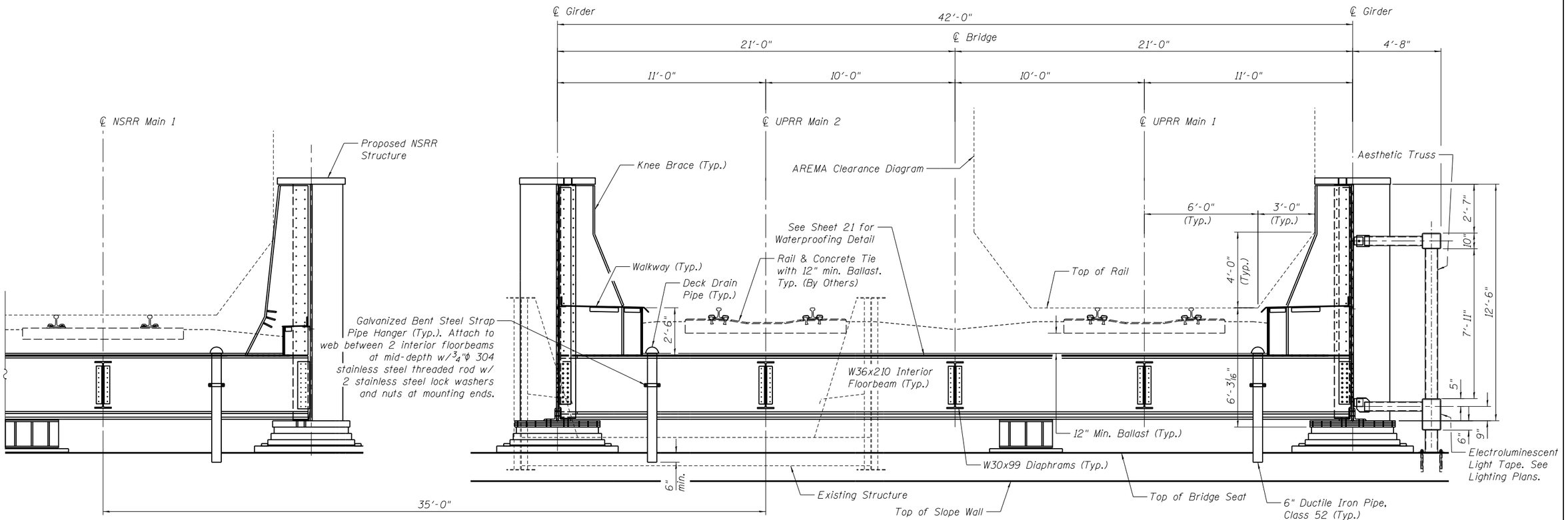
FINAL

FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -
HANSON		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOUNDATION LAYOUT
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 3 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	162
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



TYPICAL SECTION - 5TH ST. (UPRR)

(Looking West)

Notes:
1. Retaining Wall and Steel Railing not shown for clarity.
2. Drain pipe on west end only near low end of bridge deck.
3. With the ductile iron pipe fitted to the bottom of the deck drain bottom pan downspout, drill 4 holes through ductile iron pipe and downspout. Holes shall be aligned with the 4 quadrants of the pipe. Attach ductile iron pipe to downspout with 4 stainless steel carriage bolts. Rounded heads of carriage bolts shall be oriented towards the center of the pipe.
4. Cost of deck drain pipe, bottom pan, downspout, brackets and other hardware shall be included in the cost of Drainage System.

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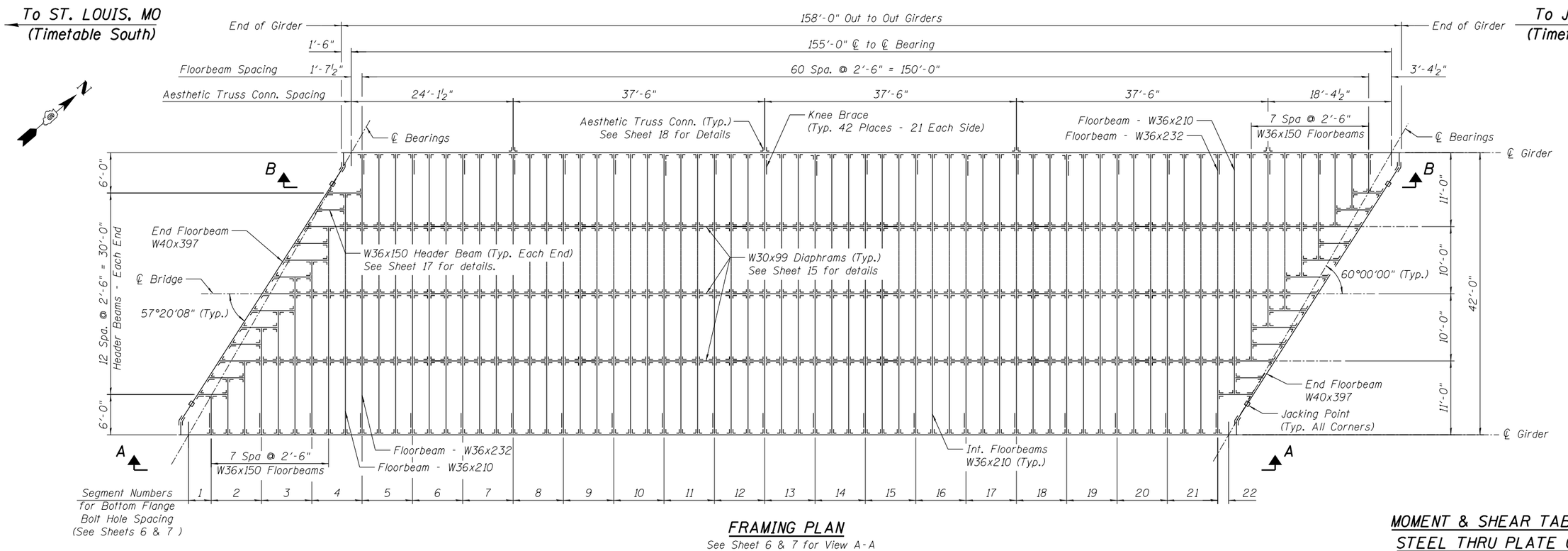
HANSON		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 4 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	163
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		



FRAMING PLAN

See Sheet 6 & 7 for View A-A
See Sheet 8 & 9 for Section B-B

STEEL NOTES

GENERAL: All materials, fabrication, and erection shall be in accordance with chapter 15 of the current AREMA Manual for Railway Engineering.

Dead Load: (assumed)

Rail	400
Ballast (Incl. Tie)	7,670
Waterproofing	190
Future Ballast	2,480
Steel	10,960
Total	21,700 lbs. per lin ft. of track

MATERIAL: Zone 2 Conditions control for Charpy V-Notch testing.

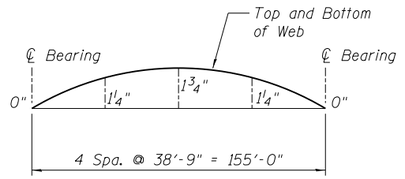
Fracture Critical Members (FCM) shall be Charpy V-Notch tested. According to AREMA Table 15-9-3, Zone 2, P frequency in accordance with ASTM A673.

Impact Test Required (ITR) members shall be Charpy V-Notch (CVN) tested, According to AREMA Table 15-9-2, Zone 2, H frequency in accordance with ASTM A673.

FABRICATION: The top surface of beams shall be adjusted to form a straight line at any transverse section throughout the span. Tolerance is plus or minus ⅛".

SPLICE NOTES:
1. No two parts or members shall be spliced by shop welding at the same location, or within the length of a bolted field splice.
2. Web splices by shop welding shall be located a minimum of 36" away from any flange splice.
3. Splices of the web or flanges shall not be permitted within the central 30'-0" or the girder span length. This requirement may be waived only by the approval of the Engineer.

TOP OF TIE	TO MASONRY	TO CLEARANCE
Tie	9¼"	9¼"
Ballast	1'-0"	1'-0"
Waterproofing	1⅛"	1⅛"
Ballast pan	⅝"	⅝"
Floorbeam & Flange	3'-9"	3'-9"
Flange splice plate		2¼"
Bolt Head		¾"
Bearing	1'-4⅜"	
Total	7'-0⅜"	5'-11"



CAMBER DIAGRAM

Camber Calculated for Dead Load Only

MOMENT & SHEAR TABLE FOR STEEL THRU PLATE GIRDER

DESCRIPTION	MOMENT	SHEAR
Dead Load	32,584 ft. -k	841 k
Live Load	30,781 ft. -k	871 k
Impact	7,081 ft. -k	200 k
Total	70,446 ft. -k	1,912 k
Section	See Sheet 11 of 28	
Steel	A.S.T.M. A709, Gr. 50	
Net I	2,395,582 in⁴	
Net S (Bot.)	32,495 in³	
fst (Bot.)	26.0 ksi	
Gross I	2,867,701 in⁴	
Gross S (Top)	33,487 in³	
fsc (Top.)	25.2 ksi	

I- Moment of Inertia of the Section
S- Section Modulus
fs- Max. Unfactored Stress in the Section Due to D.L + L.L. + Impact

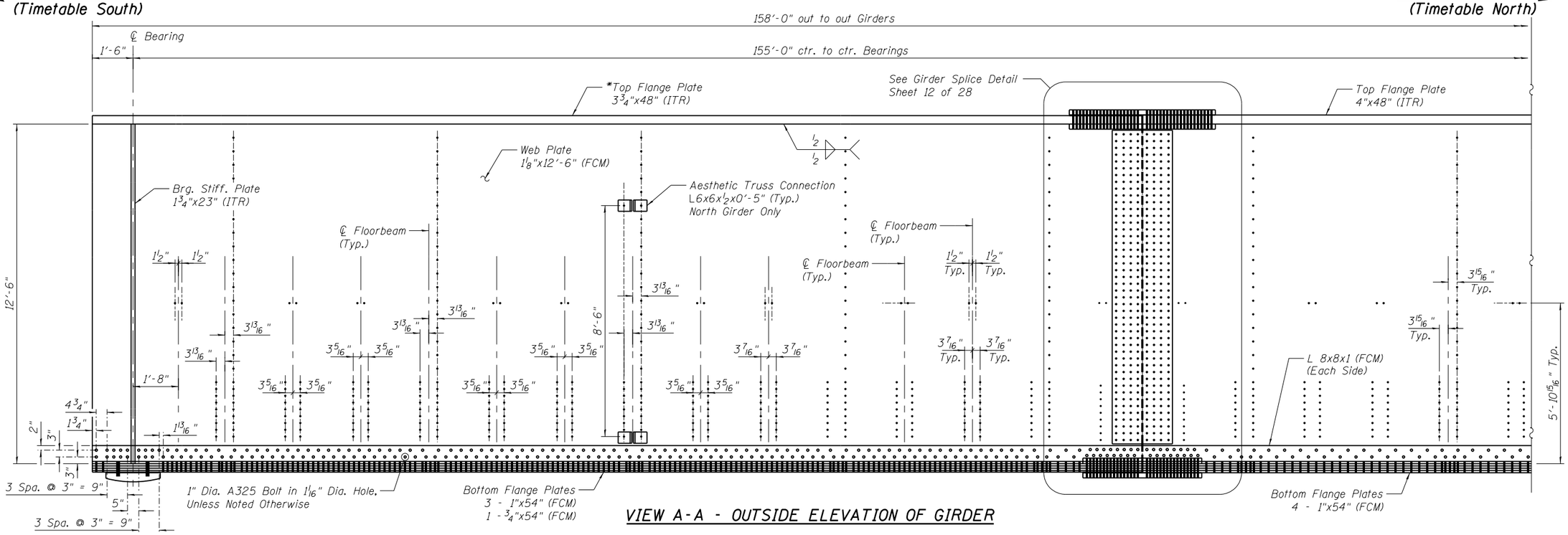
MOMENT & SHEAR TABLE FOR STEEL FLOORBEAMS

DESCRIPTION	MOMENT	SHEAR	MOMENT ✳	SHEAR ✳
Dead Load	239 ft. -k	20.7 k	4,582 ft. -k	833 k
Live Load	214 ft. -k	20.2 k		
Impact	635 ft. -k	59.8 k		
Total	1,088 ft. -k	100.7 k	4,582 ft. -k	833 k
Section	W36x210		W40x397	
Steel	A.S.T.M. A709, Gr. 50		A.S.T.M. A709, Gr. 50	
Net I	12,886 in⁴		28,366 in⁴	
Net S	702 in³		1384 in³	
fs	18.6 ksi		39.7 ksi	

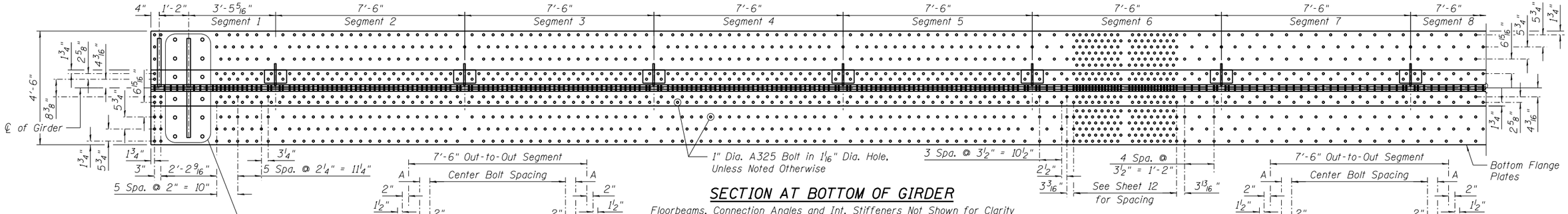
✳ Jacking Conditions Control 50% Allowable Stress Increase is Permitted

To ST. LOUIS, MO
(Timetable South)

To JOLIET, IL
(Timetable North)

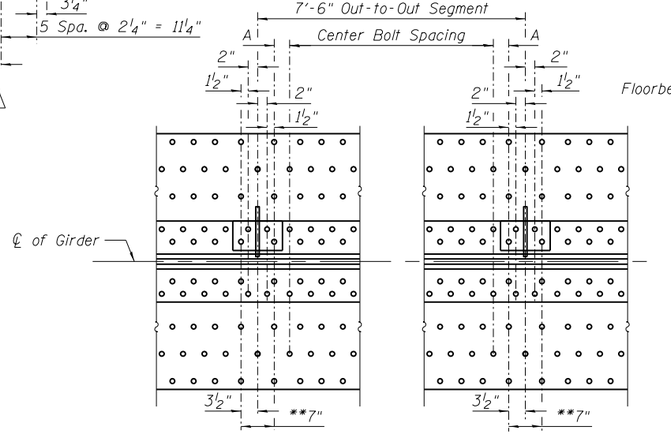


VIEW A-A - OUTSIDE ELEVATION OF GIRDER



SECTION AT BOTTOM OF GIRDER

Floorbeams, Connection Angles and Int. Stiffeners Not Shown for Clarity
See Table for Bolt Hole Spacing



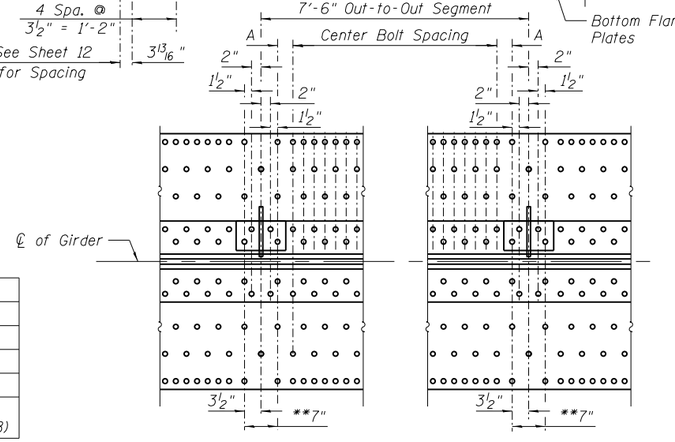
BOLT SPACING BETWEEN INT. STIFFENERS - DETAIL 1

Segments 2 thru 5, 7 thru 9, 14 thru 16, 18 thru 21

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

Segments	A	Center Spacing
2 thru 5 and 18 thru 21	3 1/4"	34 Spa. @ 2 1/4" = 6'-4 1/2"
7 thru 9 and 14 thru 16	3"	22 Spa. @ 3 1/2" = 6'-5"
10 thru 13	3 1/2"	16 Spa. @ 4 3/4" = 6'-4"
1 and 22	See Section at Bottom of Girder	
6 and 17	See Section at Bottom of Girder and Girder Splice Detail (Sheet 12 of 28)	

** Typical Bolt Spacing at Intermediate Stiffeners



BOLT SPACING BETWEEN INT. STIFFENERS - DETAIL 2

Segments 10 thru 13

Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required
3. Bolt Hole Spacing in Vertical Leg of Bottom Flange Angle is the Same as Horizontal Leg Except at Splice Locations or as Noted Otherwise.

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HANSON

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PLOT DATE = 4/12/2019	CHECKED - MJW	REVISED -	

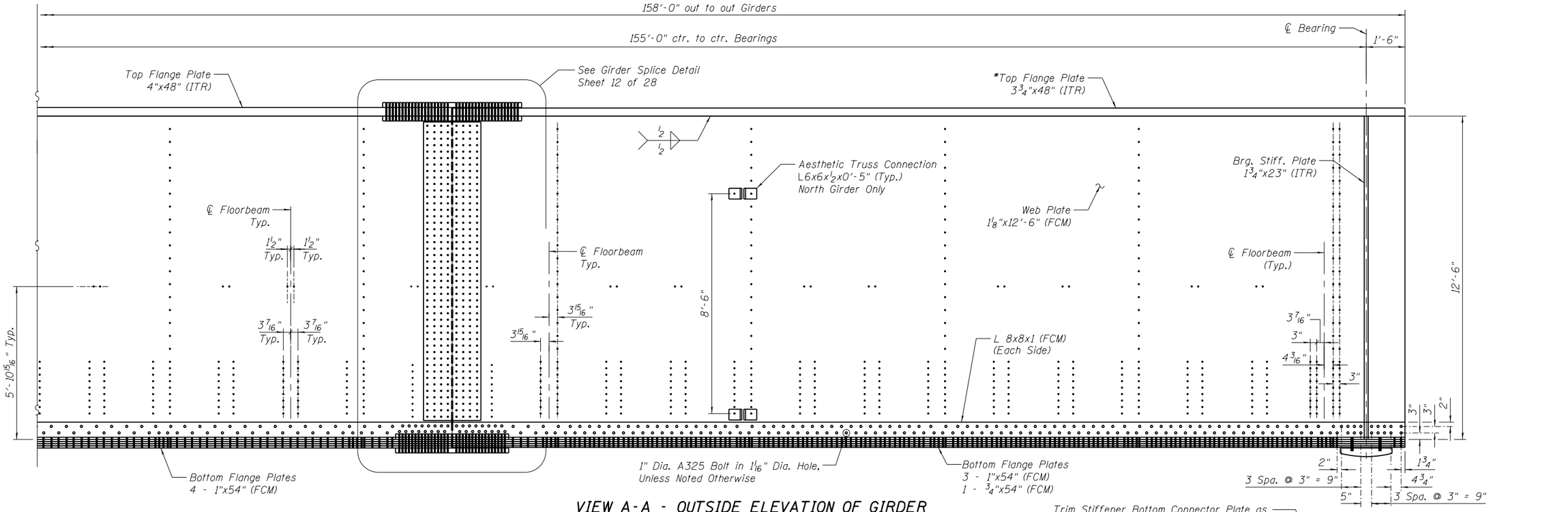
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OUTSIDE ELEVATION OF GIRDER – SHEET 1 OF 2
STRUCTURE 084–9960 – 5TH ST UPRR
SHEET NO. 6 OF 28 SHEETS

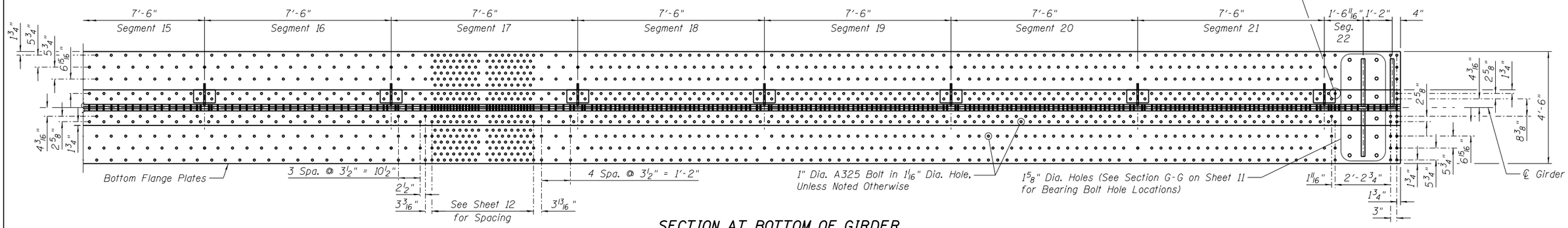
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	165
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

To ST. LOUIS, MO
(Timetable South)

To JOLIET, IL
(Timetable North)



VIEW A-A - OUTSIDE ELEVATION OF GIRDER



SECTION AT BOTTOM OF GIRDER

Floorbeams, Connection Angles and Int. Stiffeners Not Shown for Clarity
See Table on Sheet 6 for Bolt Hole Spacing

Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required
3. Bolt Hole Spacing in Vertical Leg of Bottom Flange Angle is the Same as Horizontal Leg Except at Splice Locations or as Noted Otherwise.

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

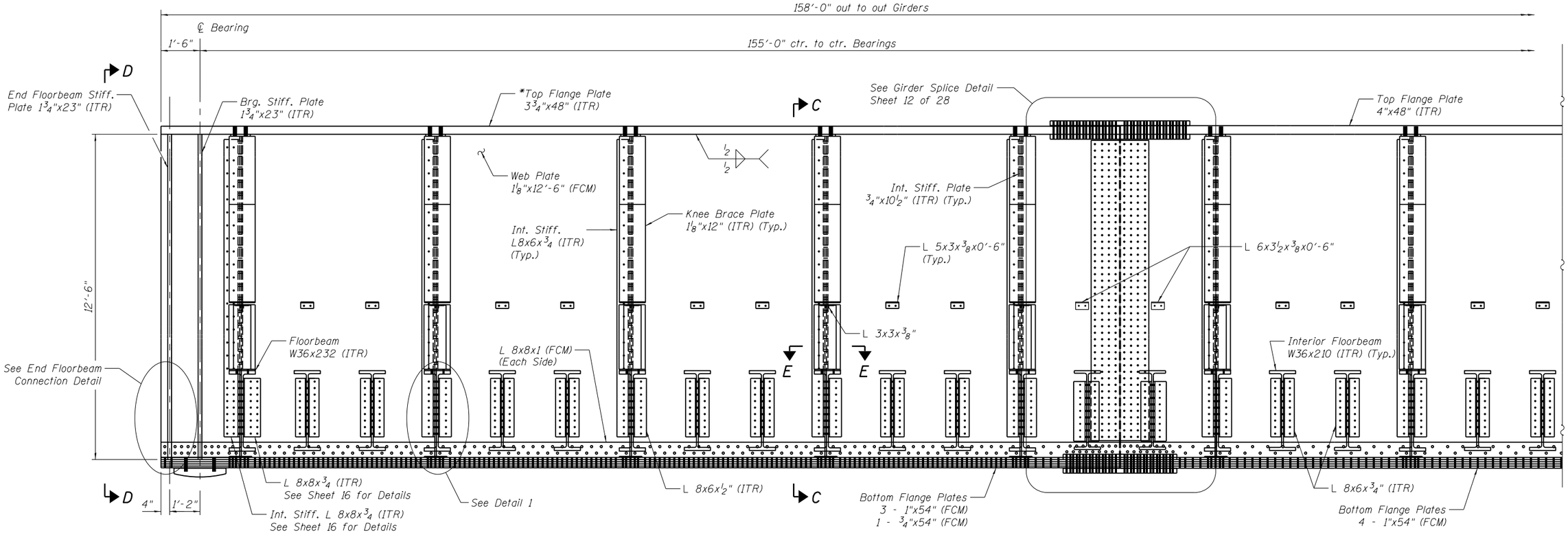
OUTSIDE ELEVATION OF GIRDER – SHEET 2 OF 2
STRUCTURE 084-9960 – 5TH ST UPRR
SHEET NO. 7 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	166
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

To ST. LOUIS, MO
(Timetable South)

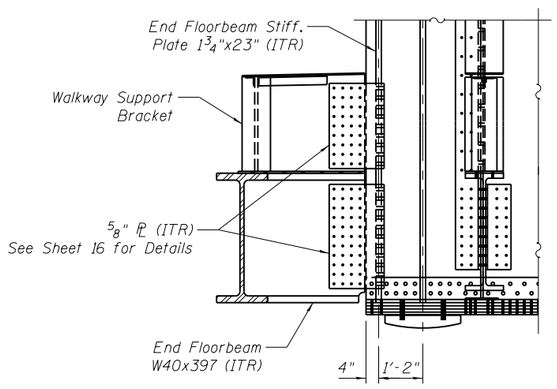
To JOLIET, IL
(Timetable North)

Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required

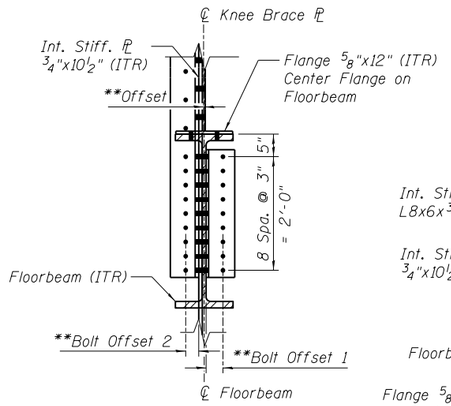


SECTION B-B - INSIDE ELEVATION OF GIRDER

See Sheet 10 of 28 for Section C-C & D-D.

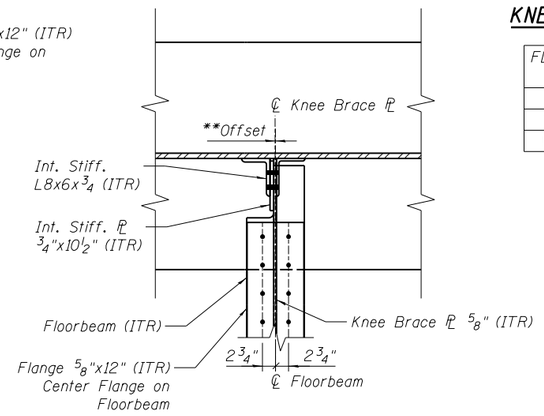


END FLOORBEAM CONNECTION DETAIL



DETAIL 1

**See Table for Offset Dimension



SECTION E-E

**See Table for Offset Dimension

KNEE BRACE PLATE & BOLT OFFSETS

FLOORBEAM SHAPE	KNEE BRACE OFFSET	BOLT OFFSET 1	BOLT OFFSET 2
W36x150	0"	3 1/2"	2 3/4"
W36x210	1/8"	3 1/2"	2 3/4"
W36x232	1/8"	See Sheet 17	

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

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PLOT DATE = 4/11/2019 | CHECKED - MJW | REVISED -

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INSIDE ELEVATION OF GIRDER – SHEET 1 OF 2
STRUCTURE 084-9960 – 5TH ST UPRR
SHEET NO. 8 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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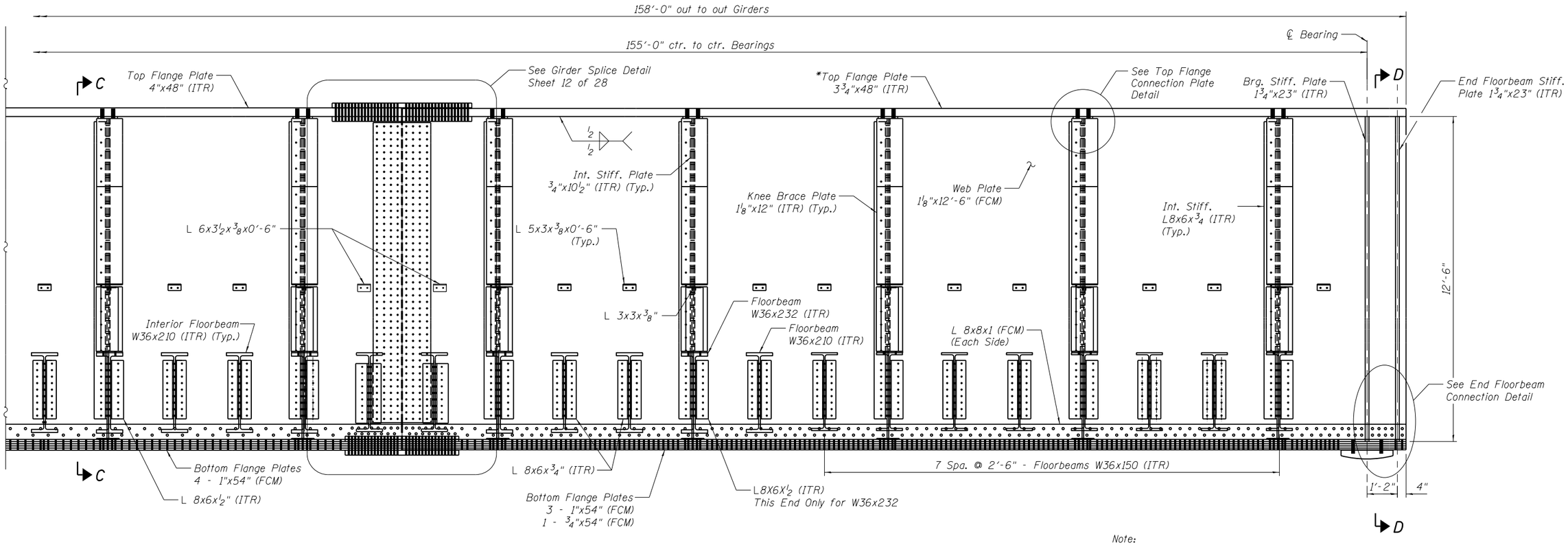
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

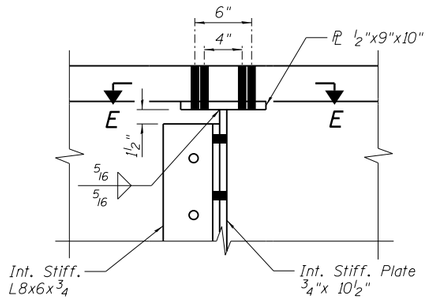


SECTION B-B - INSIDE ELEVATION OF GIRDER

See Sheet 10 of 28 for Section C-C & D-D.

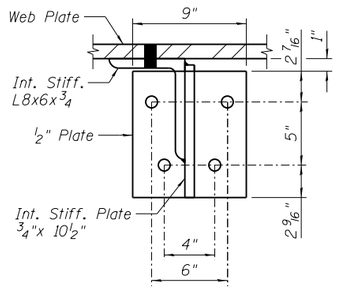
Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

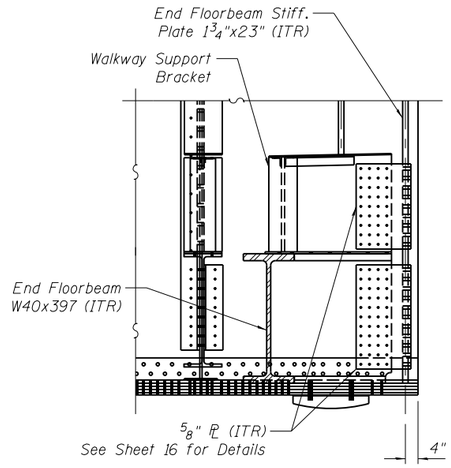


TOP FLANGE CONNECTION PLATE DETAIL

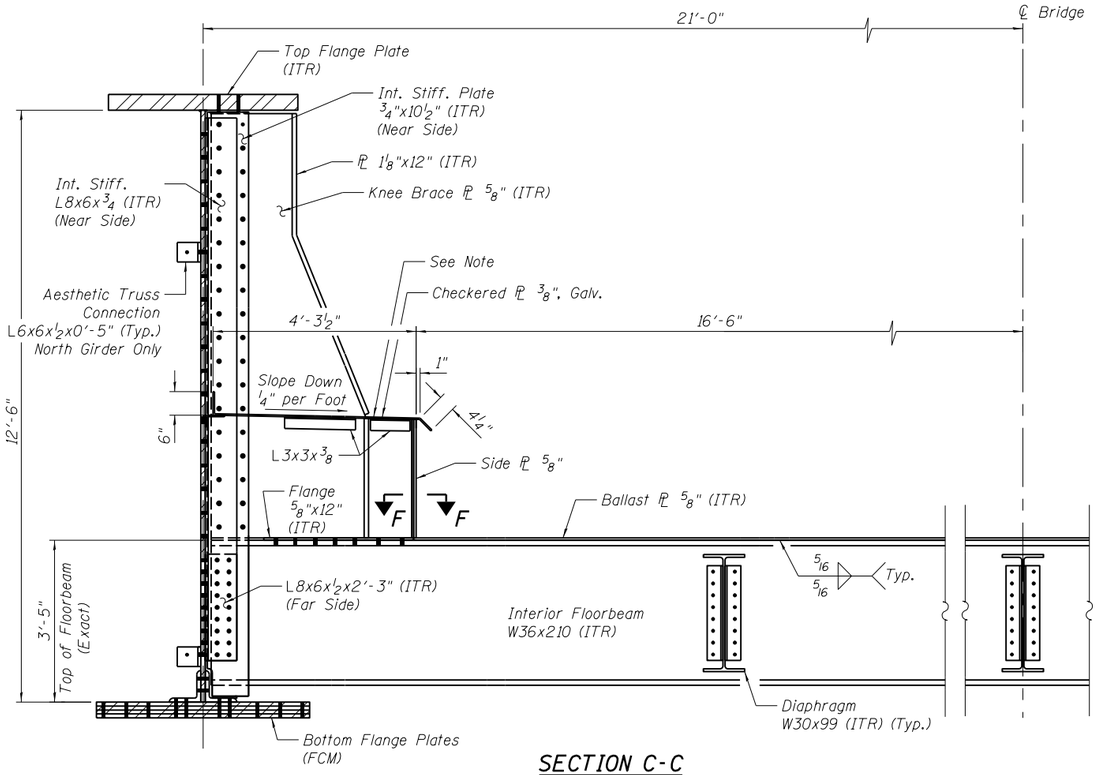
(Knee Brace Omitted for Clarity)



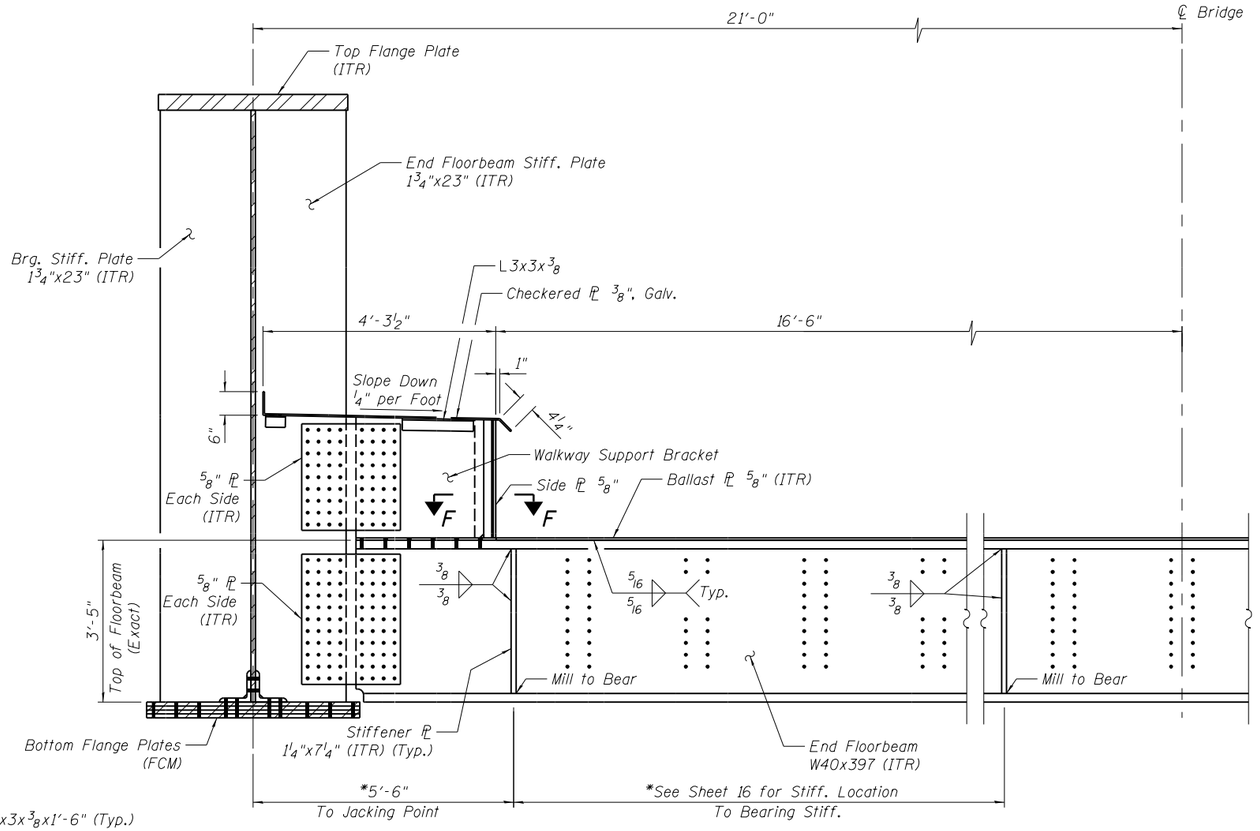
SECTION E-E



END FLOORBEAM CONNECTION DETAIL

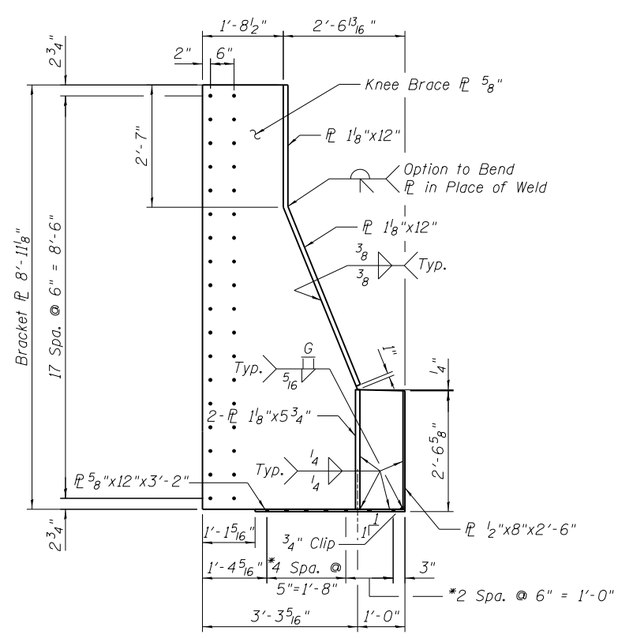


SECTION C-C



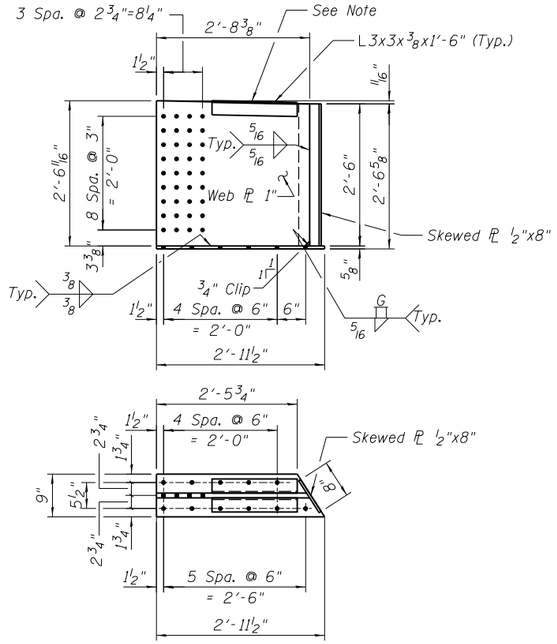
SECTION D-D

*(Along End Floorbeam ℄)



KNEE BRACE

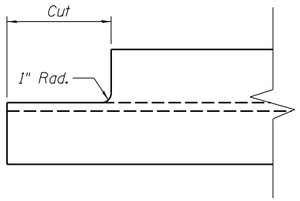
*See Detail 1 on Sheet 8 for Hole Locations.



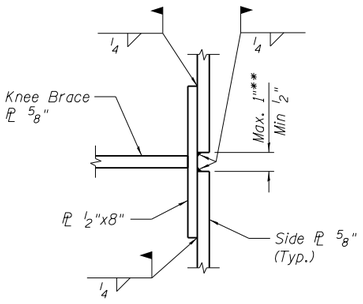
WALKWAY SUPPORT BRACKET

See Sheet 13 for Skew Angle

Note:
For Location of L3x3x3/8, Welding and Bolted Connection to Walkway Checker Plate see Plan View of Walkway at Knee Brace on Sheet 14.

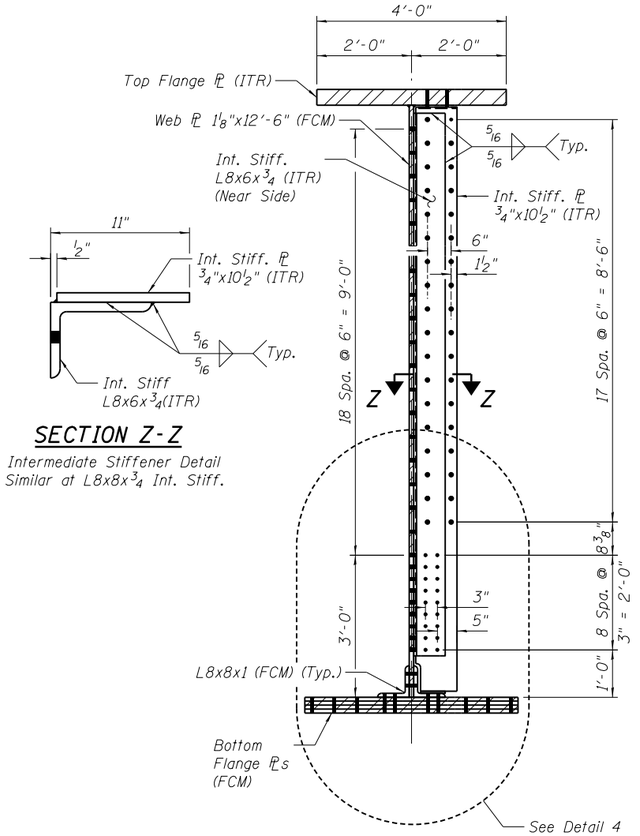


FLOORBEAM COPE AT INTERIOR STIFFENER



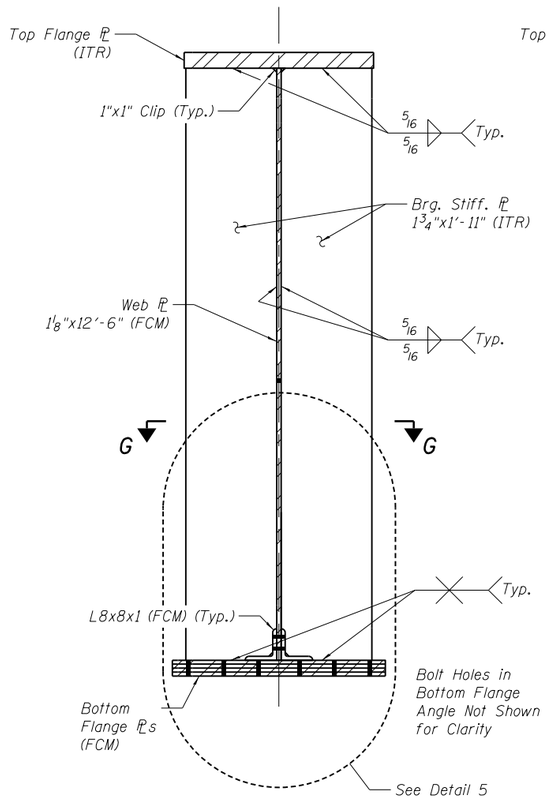
SECTION F-F

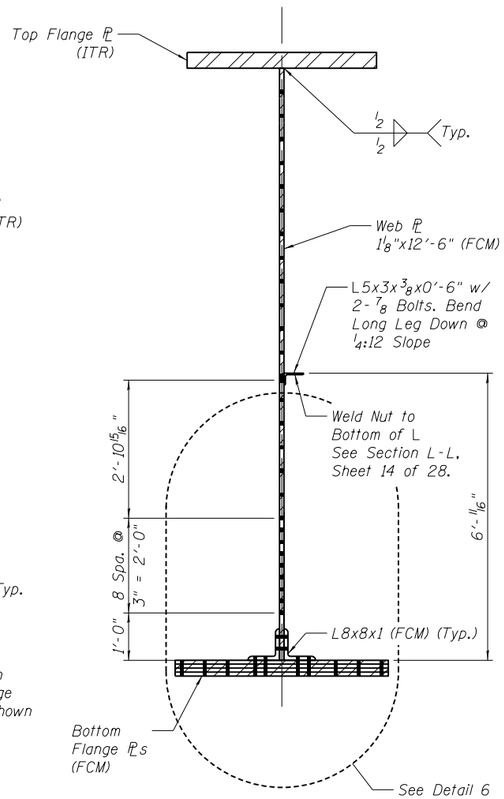
**No Gap at Walkway Support Bracket Provide Continuous Side PL



SECTION Z-Z

Intermediate Stiffener Detail
Similar at L8x8x3/4 Int. Stiff.



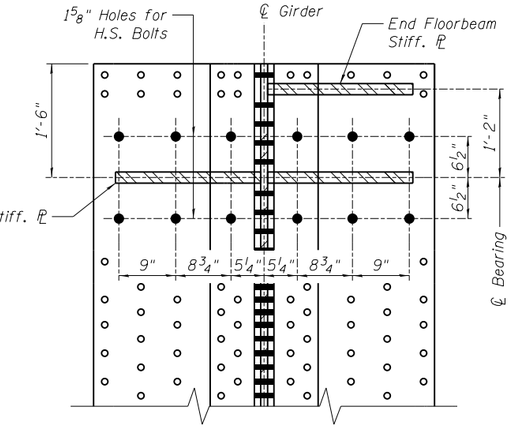


TYPICAL SECTION AT INT. STIFFENER AND KNEE BRACE

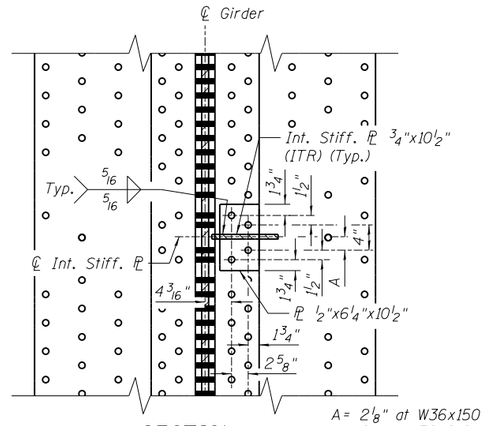
(Knee Brace Omitted for Clarity)

TYPICAL SECTION AT BEARING STIFFENER

TYPICAL SECTION AT CHECKERED PLATE SUPPORT

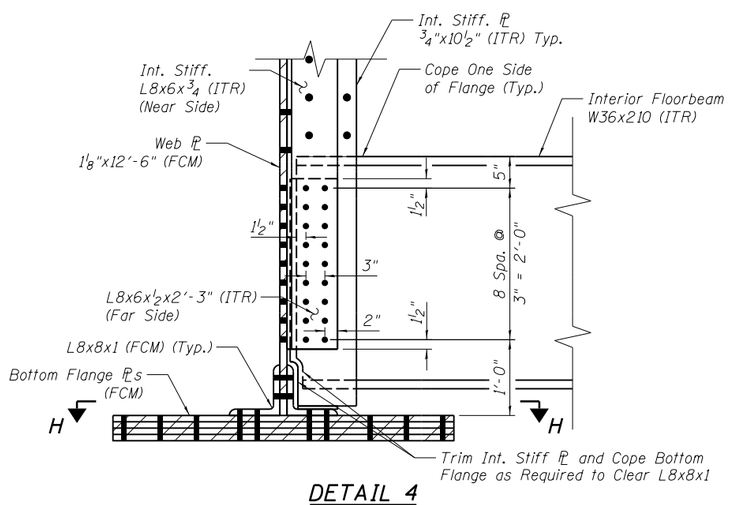


SECTION G-G



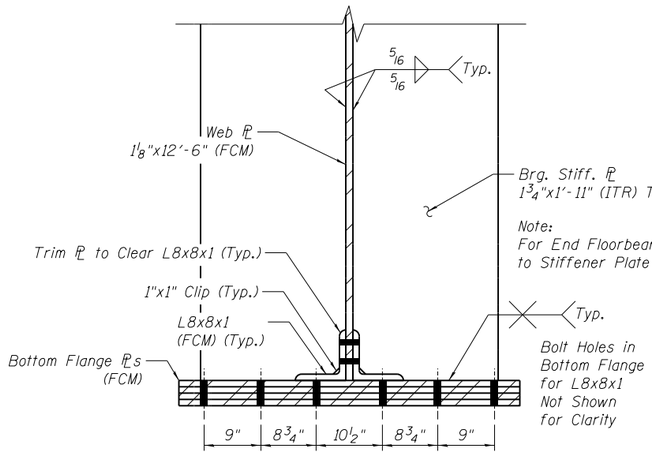
SECTION H-H

A = 2 1/8" at W36x150
A = 2" at W36x210
A = 2" at W36x232



DETAIL 4

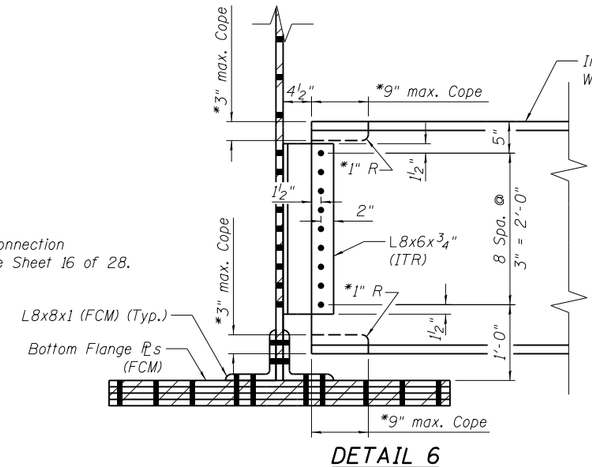
Typical for Interior Stiffener Unless Otherwise Noted
(Knee Brace Omitted for Clarity)



Note:
For End Floorbeam Connection to Stiffener Plate See Sheet 16 of 28.

DETAIL 5

Typical at Bearing Stiffener



Note:
* Optional coping of Interior Floorbeam is permitted to facilitate erection as shown in Detail 6. The option, if utilized, shall be provided at no additional cost to the Department.

DETAIL 6

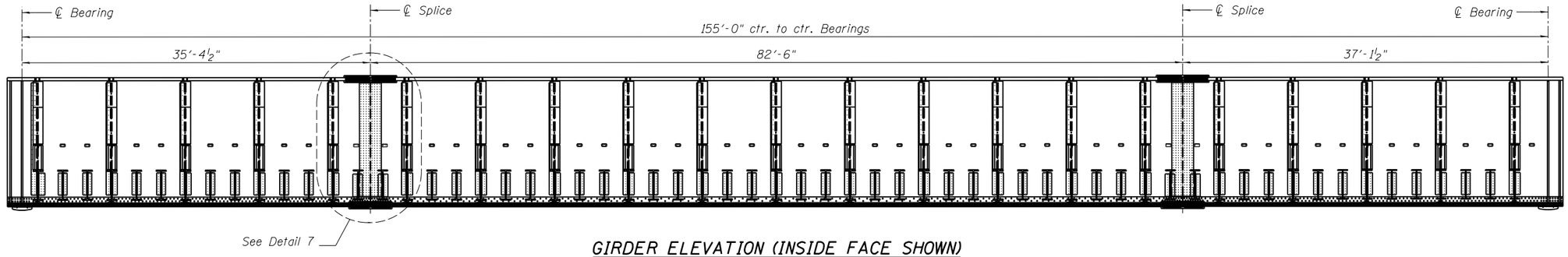
Typical Floorbeam Connection Between Interior Stiffeners

pw:\\spi-svr306.hanson.dom:Hanson Projects\Documents\09Jobs\09L0179B\CAD\Struct\5th\Sheet\0849960-09L0179B-UPRR-002

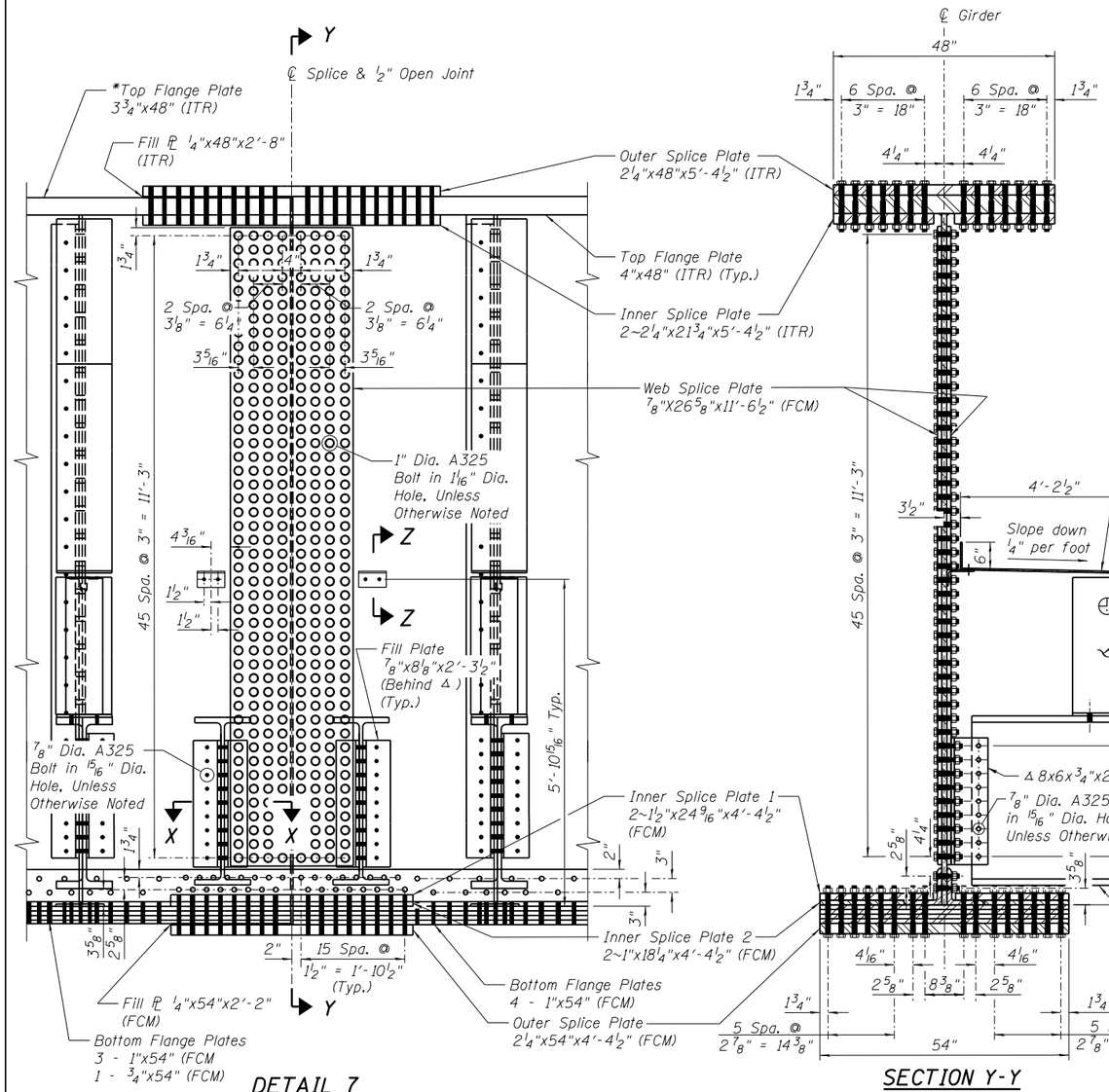
FINAL

FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
HANSON		CHECKED - TJH/TDP	REVISED -	GIRDER SECTIONS & DETAILS STRUCTURE 084-9960 - 5TH ST UPRR
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -	SHEET NO. 11 OF 28 SHEETS
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	170
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

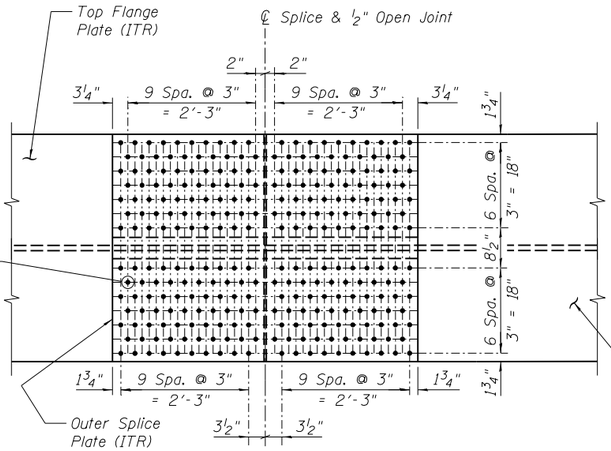


GIRDER ELEVATION (INSIDE FACE SHOWN)



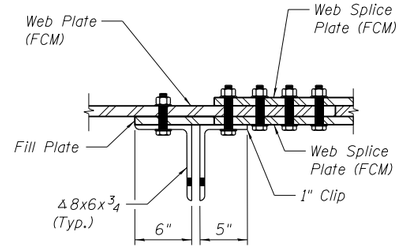
DETAIL 7

SECTION Y-Y

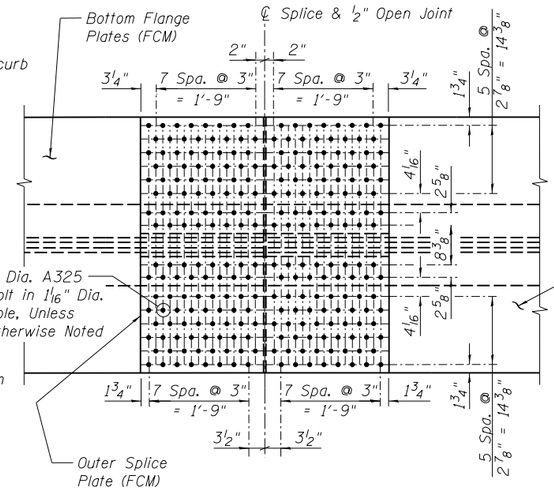


TOP FLANGE PLAN

(Looking Down)



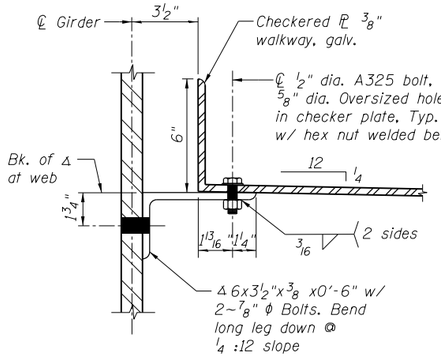
SECTION X-X



BOTTOM FLANGE PLAN

(Looking Up)

Note: Bottom Flange Bolt Holes Not Shown for Clarity.



SECTION Z-Z

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

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FINAL

FILE NAME =

HANSON

USER NAME = Pop00275	DESIGNED - MJW	REVISED -
	CHECKED - TJH/TDP	REVISED -
PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

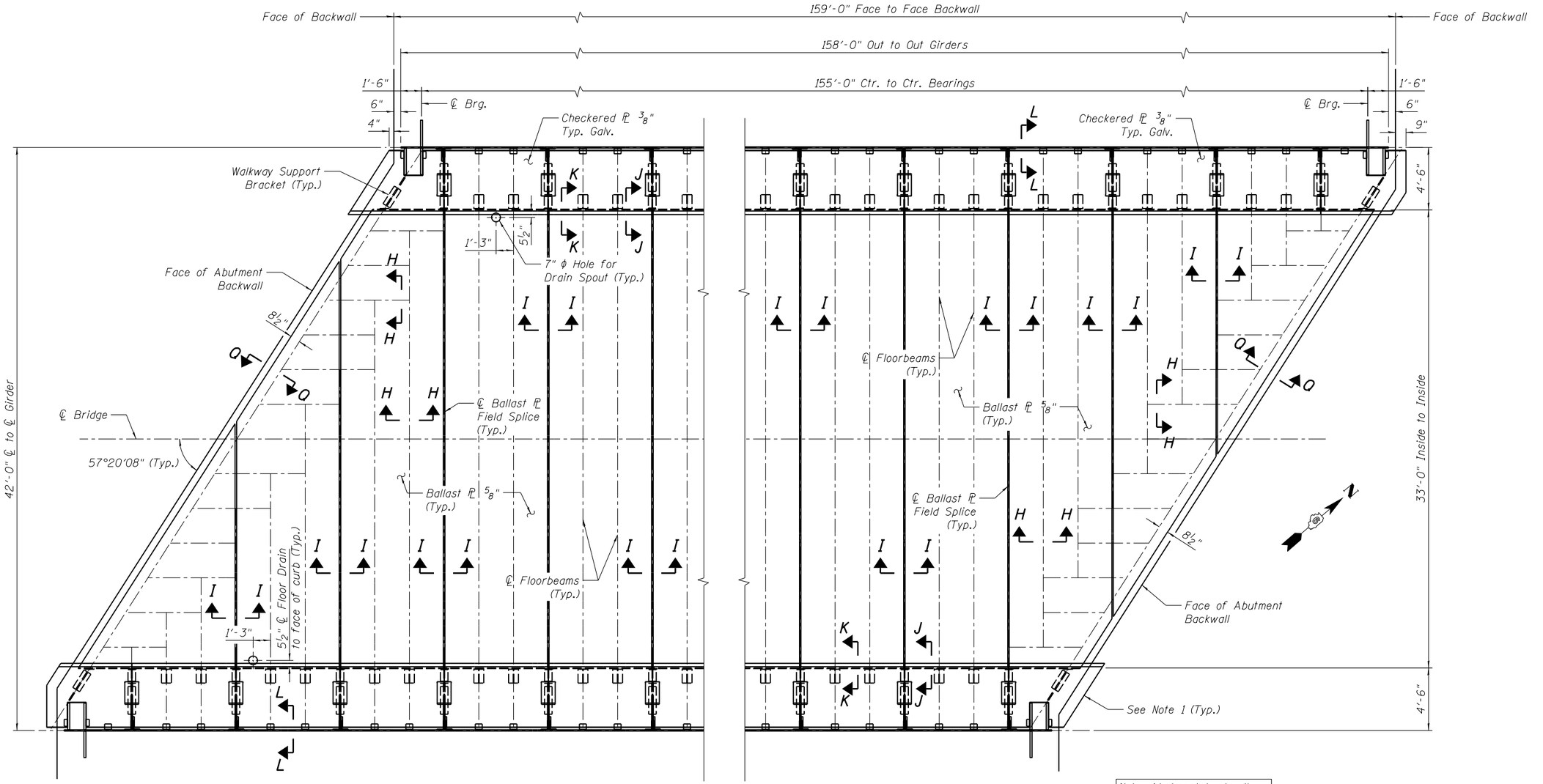
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER SPLICE DETAILS
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 12 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	171
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

To ST. LOUIS, MO
(Timetable South)

To JOLIET, IL
(Timetable North)



Note: Abutment backwall not shown for clarity.

WALK & BALLAST PAN PLAN

See Sheet 14 of 28 for Section H-H, I-I, J-J, K-K, L-L & O-O.

Notes:

1. Prior to Setting End Checkered PL, Build-up top of Concrete Backwall with Epoxy Grout to Support Checkered PL and Provide Sloped Surface to Eliminate Tripping Hazard. Typical All Four Corners.
2. Checkered PL Shall be ASTM A786 Gr 36 or ASTM A36. Galvanize after fabrication.

pw:\\spi-svr306.hanson.dom:Hanson Projects\Documents\09Jobs\09L0179B\CAD\Struct\5th\Sheet\0849960-09L0179B-UPRR-002

FINAL

FILE NAME =

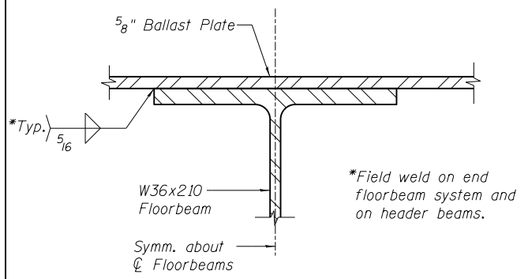
HANSON

USER NAME = Pop00275	DESIGNED - MJW	REVISED -	
	CHECKED - TJH/TDP	REVISED -	
PLOT SCALE = 0:2.0000 ' / in.	DRAWN - RSJ	REVISED -	
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

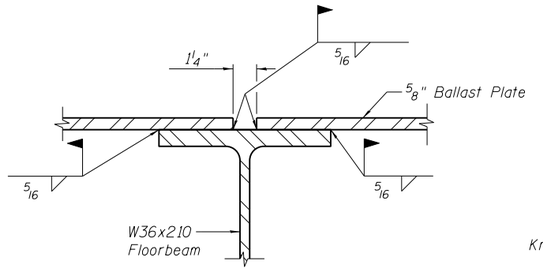
WALKWAY AND BALLAST PLATE PLAN
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 13 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	172
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

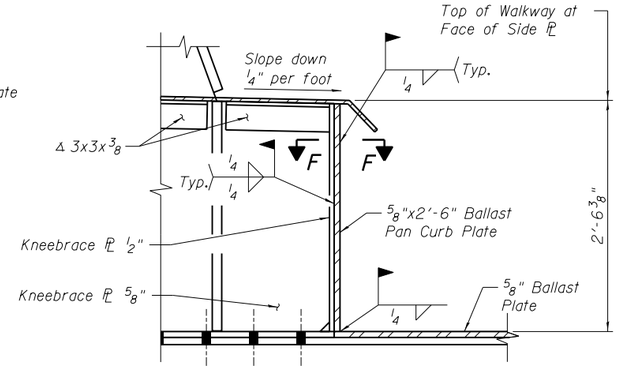


SECTION H-H BALLAST PLATE TO FLOORBEAM CONNECTION (TYP.)

Similar Detail at Header Beam

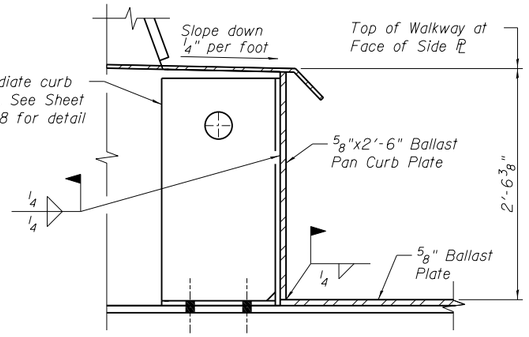


SECTION I-I

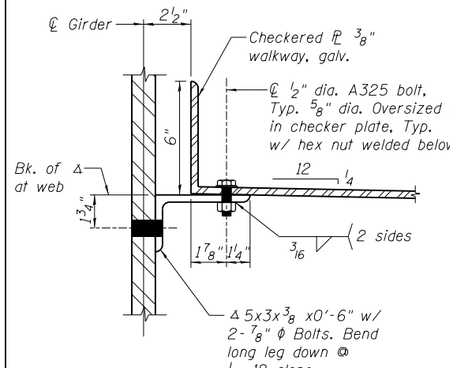


SECTION J-J

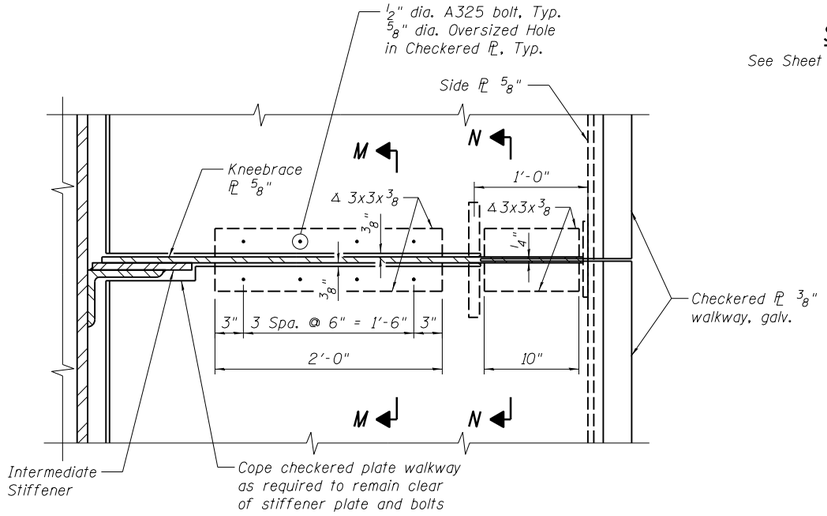
See Sheet 10 of 28 for Section F-F.



SECTION K-K

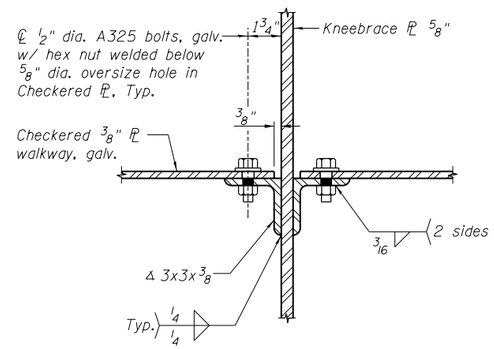


SECTION L-L

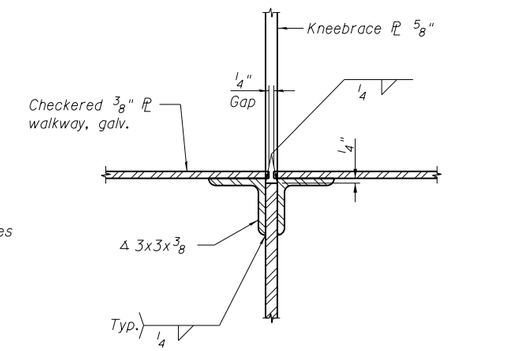


PLAN

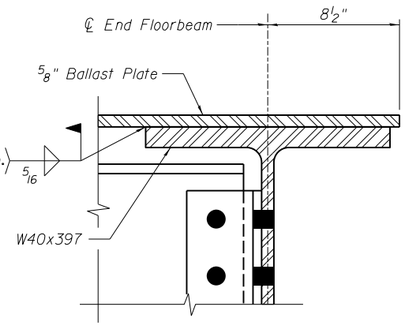
Walkway at Kneebrace



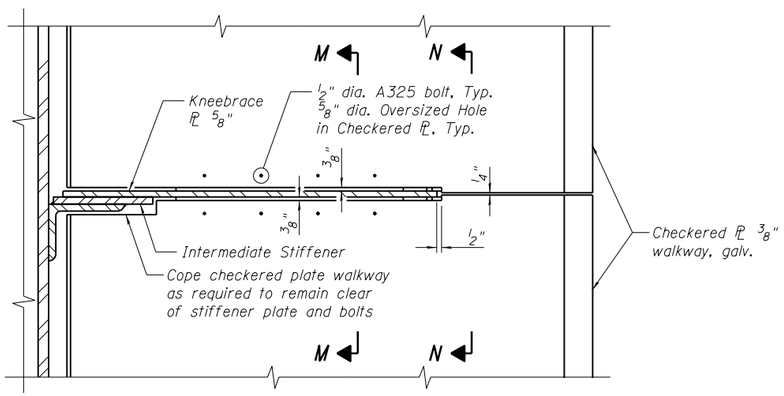
SECTION M-M



SECTION N-N

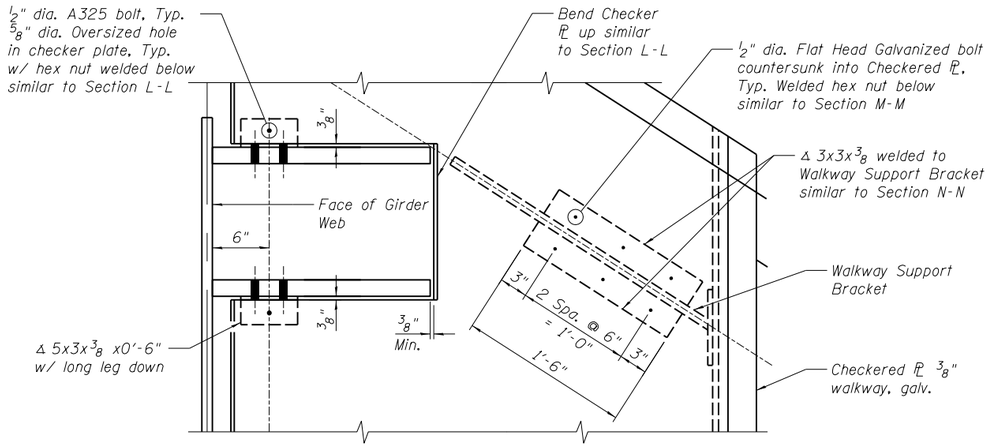


SECTION Q-Q



PLAN

Walkway at Kneebrace



PLAN

Walkway at Bearing Stiffener

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FINAL

FILE NAME =
USER NAME = Pop00275
PLOT SCALE = 0:2.0000 '' / in.
PLOT DATE = 4/11/2019

DESIGNED - MJW
CHECKED - TJH/TDP
DRAWN - RSJ
CHECKED - MJW

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALKWAY AND BALLAST PLATE DETAILS
STRUCTURE 084-9960 - 5TH ST UPRR

SHEET NO. 14 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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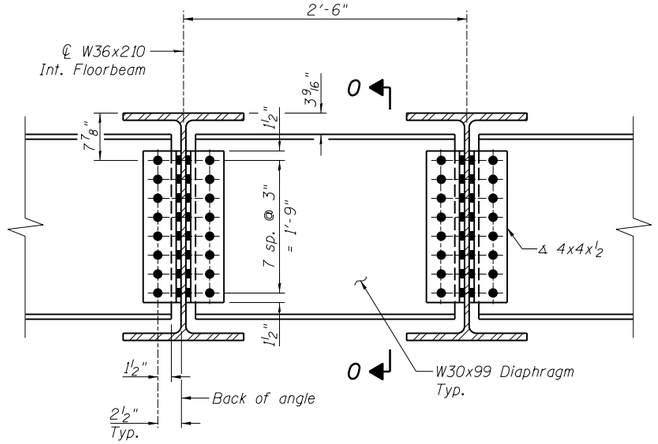
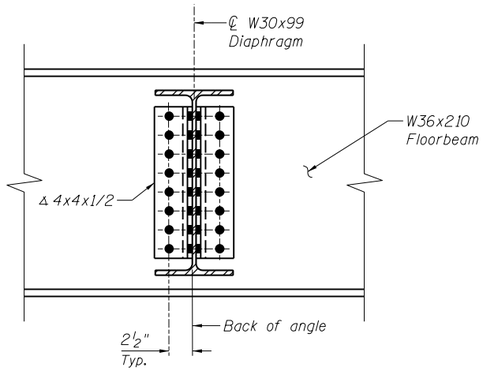
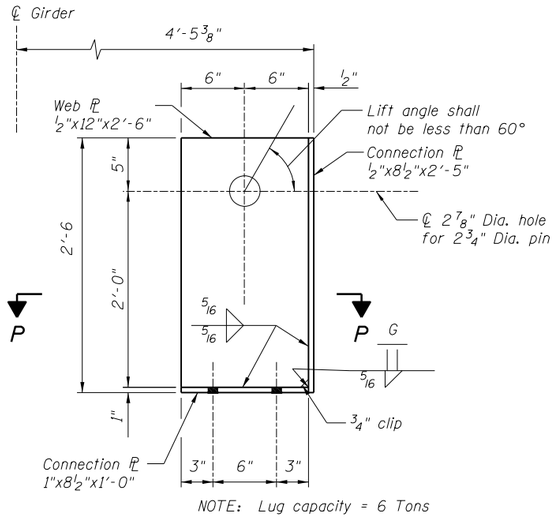
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



LONGITUDINAL DIAPHRAGM DETAIL

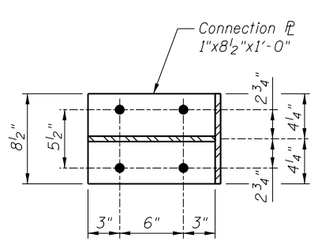


SECTION 0-0

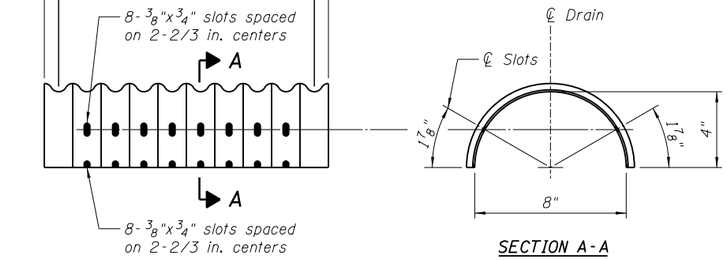


NOTE: Lug capacity = 6 Tons

INTERMEDIATE CURB SUPPORT

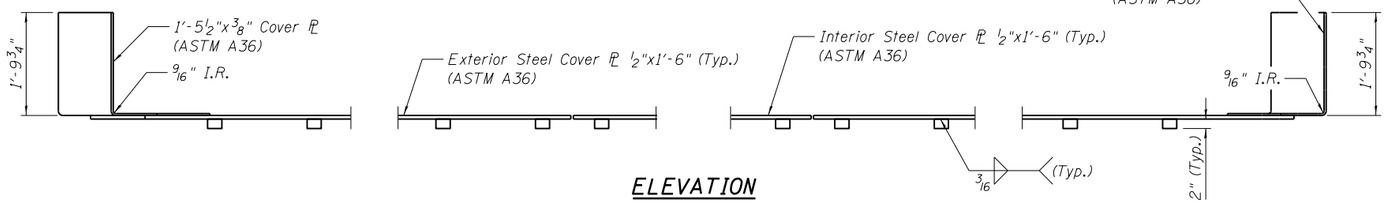


SECTION P-P

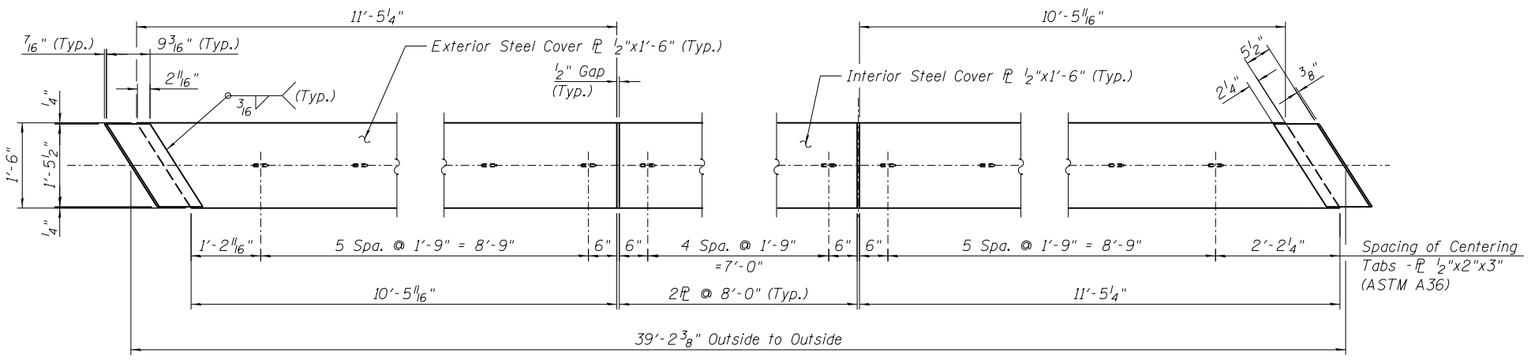


SECTION A-A

DETAIL - DECK DRAIN PIPE



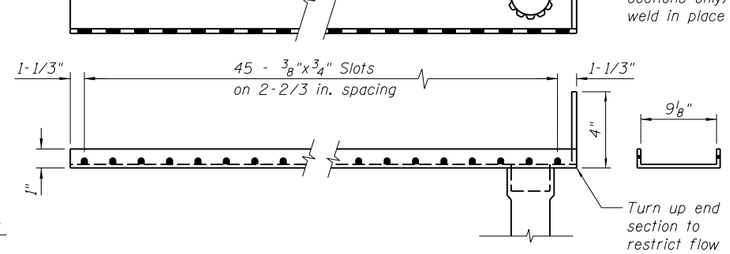
ELEVATION



PLAN

COVER PLATES

(Galvanize after Fabrication)



DETAIL - DECK DRAIN BOTTOM PAN

Notes:
1. Lap Drain Pipe one corrugation at each end.
2. Coordinate outside diameter of drain pipe down spout with 6" ϕ Ductile Iron Pipe.
3. Cost for deck drain pipe and bottom pan shall be included in the cost of "Drainage System".

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FINAL

FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS GIRDER DETAILS – SHEET 1 OF 3 STRUCTURE 084-9960 – 5TH ST UPRR
HANSON		CHECKED - TJH/TDP	REVISED -		SHEET NO. 15 OF 28 SHEETS
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -		
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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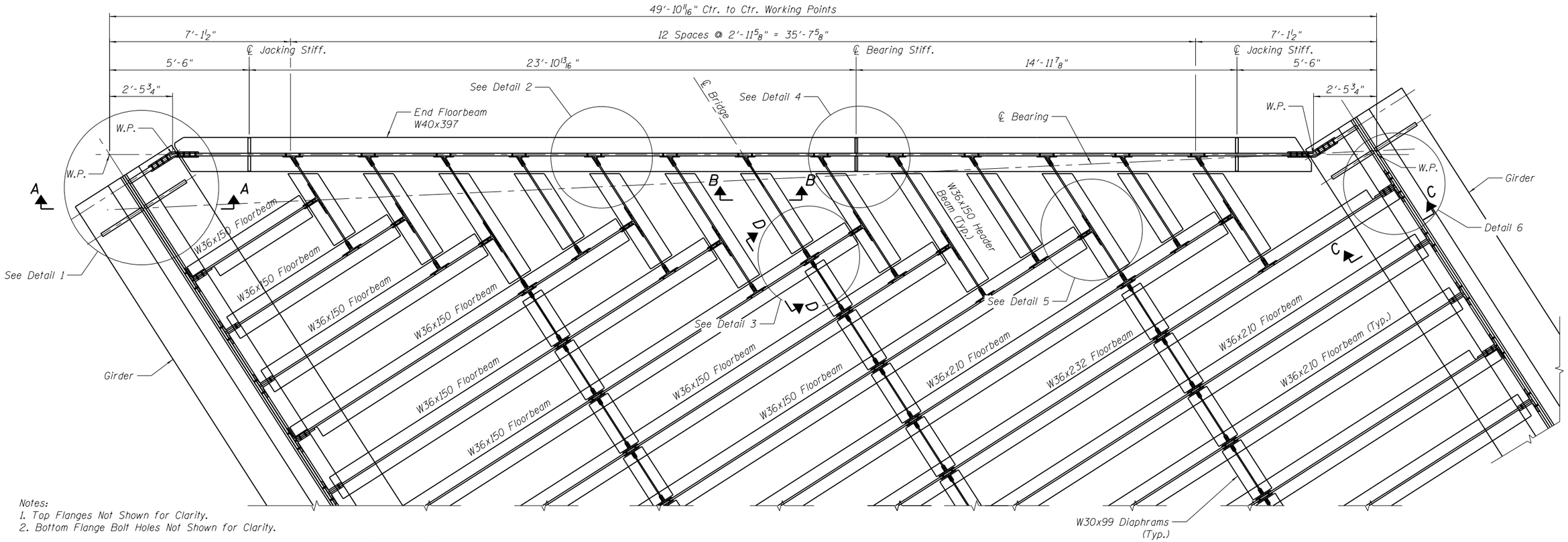
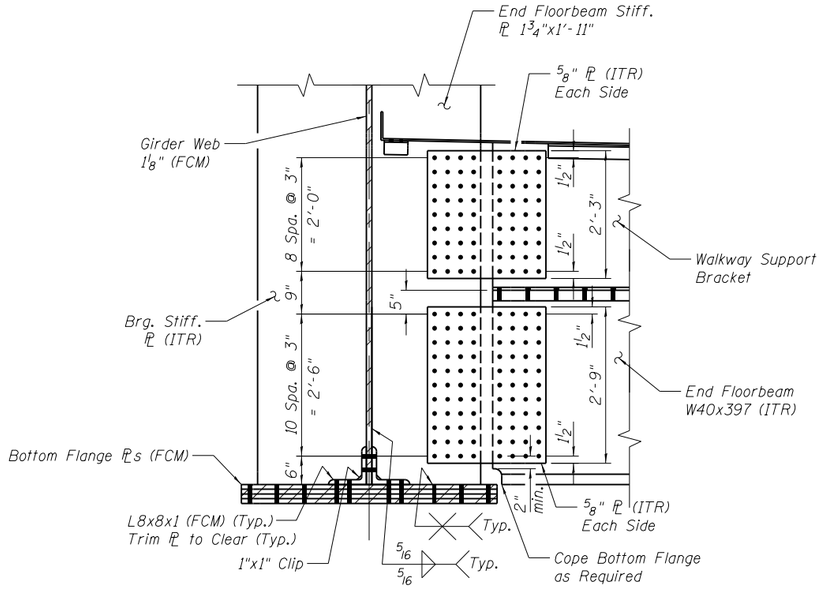
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



Notes:
1. Top Flanges Not Shown for Clarity.
2. Bottom Flange Bolt Holes Not Shown for Clarity.

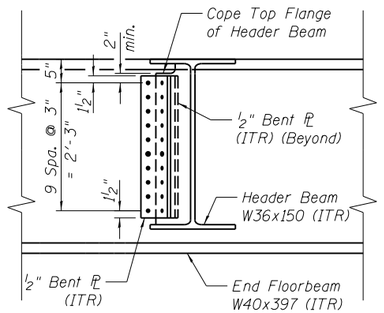
TYPICAL END FLOORBEAM PLAN

See Sheet 17 for Details



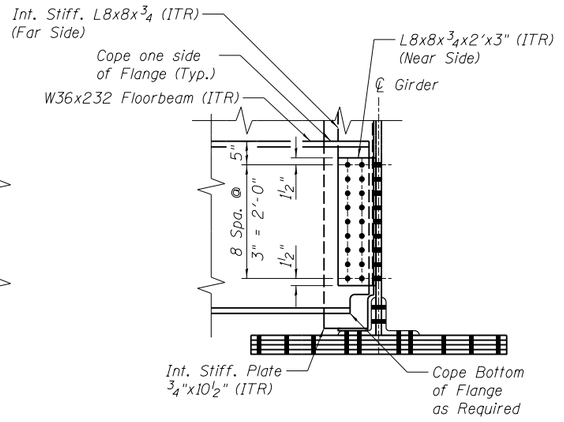
SECTION A-A

See Detail 1 on Sheet 17 for Horizontal Bolt Spacing.



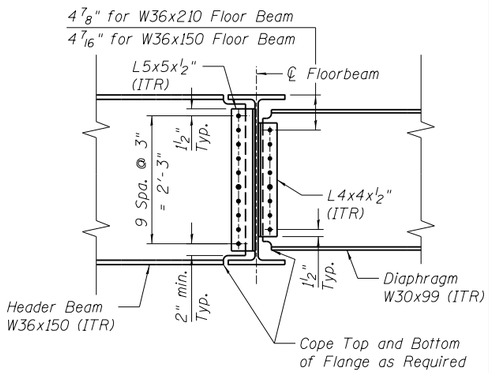
SECTION B-B

See Detail 2 on Sheet 17 for Horizontal Bolt Spacing.



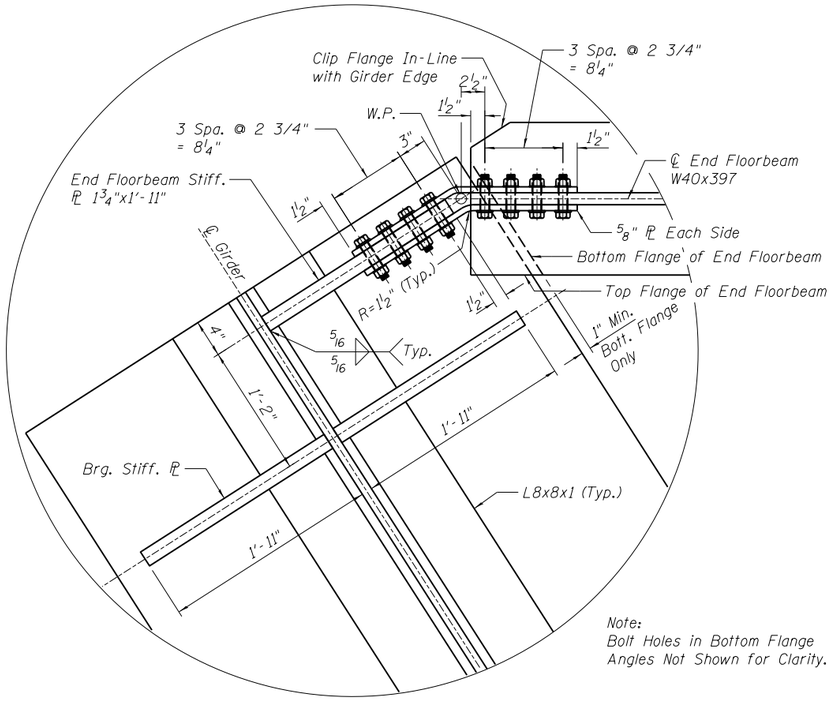
SECTION C-C

See Detail 6 on Sheet 17 for Horizontal Bolt Spacing.



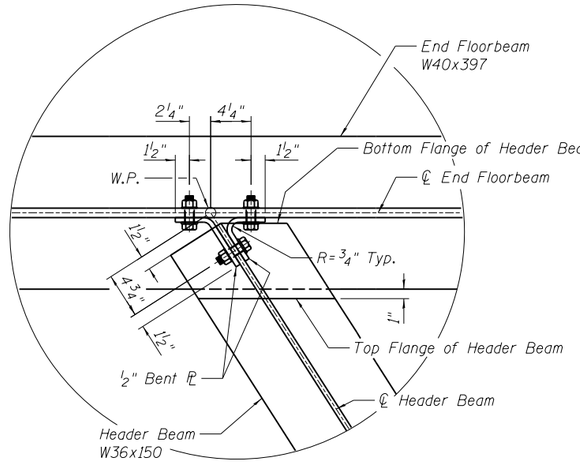
SECTION D-D

See Detail 3 on Sheet 17 for Horizontal Bolt Spacing.

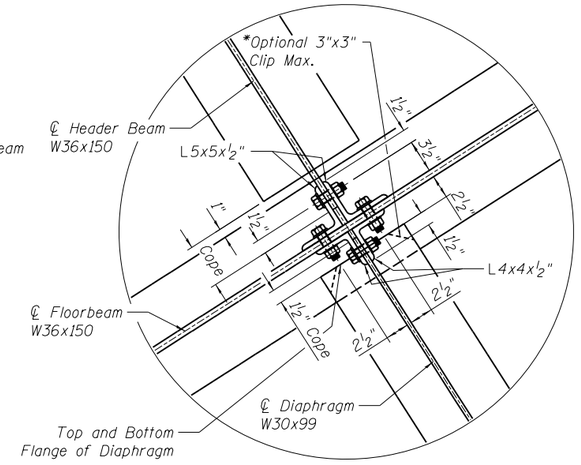


Note:
Bolt Holes in Bottom Flange Angles Not Shown for Clarity.

DETAIL 1

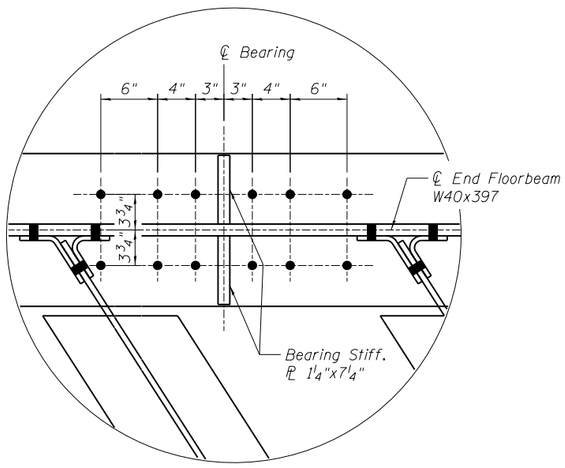


DETAIL 2

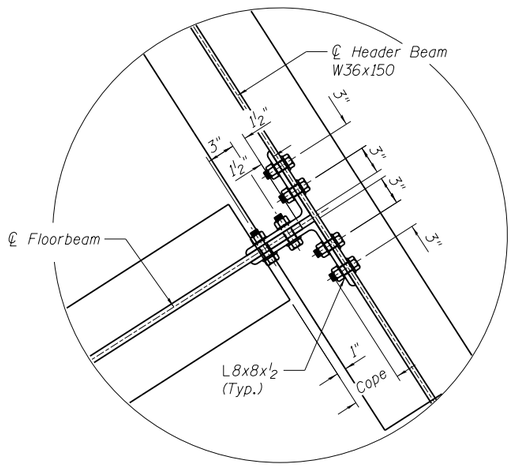


DETAIL 3

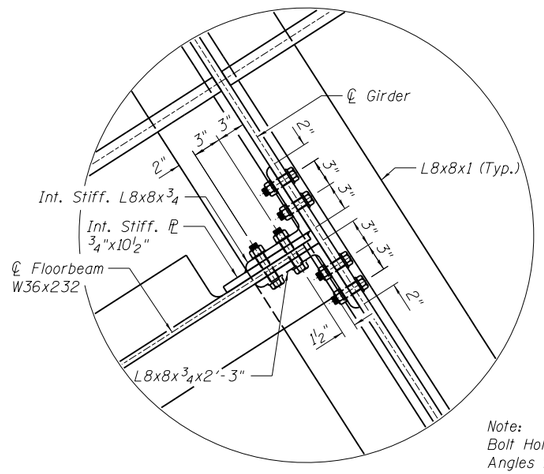
*Clipping diaphragm flanges is permitted to facilitate erection at intermediate and end floor system locations. If clipped it shall be provided at no additional cost to the Department.



DETAIL 4



DETAIL 5



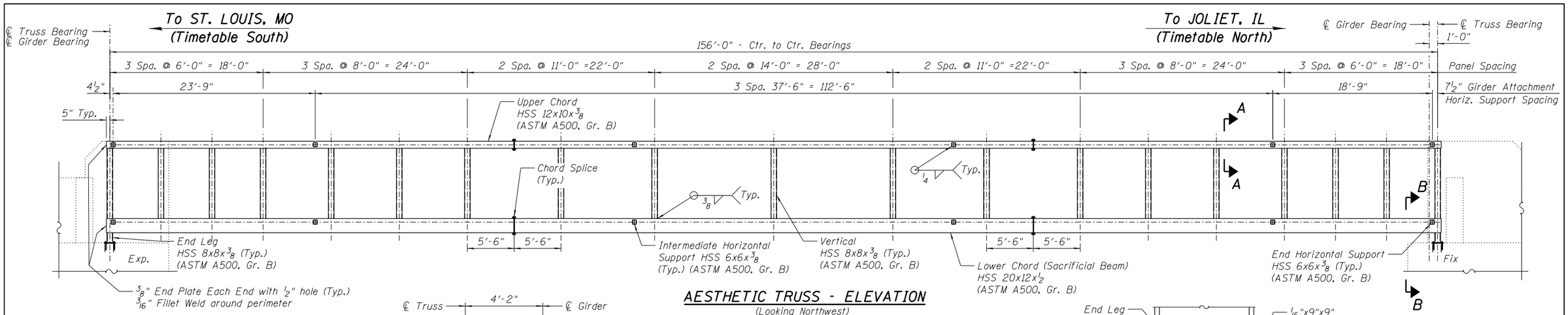
Note:
Bolt Holes in Bottom Flange Angles Not Shown for Clarity.

DETAIL 6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

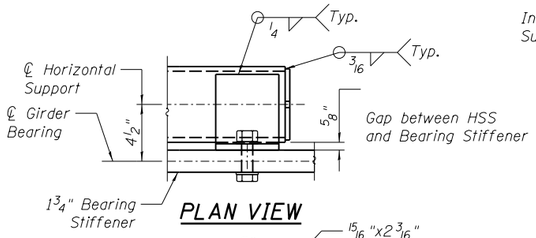
MISCELLANEOUS GIRDER DETAILS – SHEET 3 OF 3
STRUCTURE 084–9960 – 5TH ST UPRR
SHEET NO. 17 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	176
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

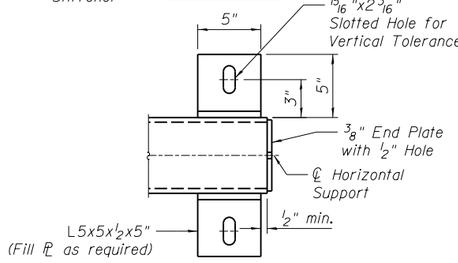


AESTHETIC TRUSS - ELEVATION

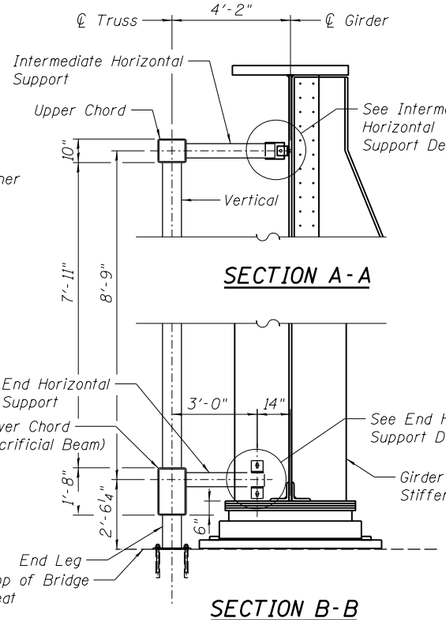
(Looking Northwest)



PLAN VIEW

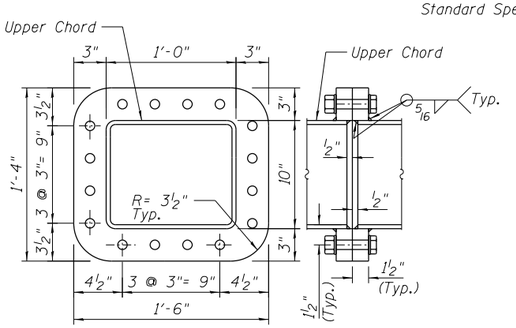


ELEVATION VIEW
END HORIZONTAL SUPPORT DETAIL



SECTION B-B

SECTION A-A



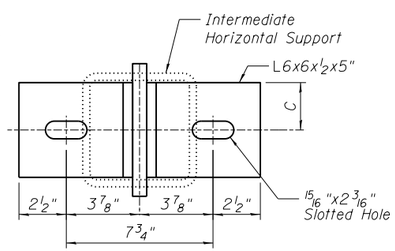
UPPER CHORD SPLICE DETAIL

LOWER CHORD SPLICE DETAIL

INTERMEDIATE HORIZONTAL SUPPORT DETAIL

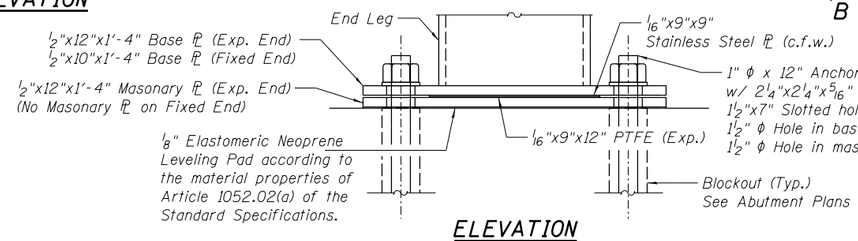
(Lower Support Shown)

	A	B	C	D
Upper Support	3 1/2"	7"	2 1/2"	2"
Lower Support	2 1/2"	9"	1 1/2"	2 1/2"

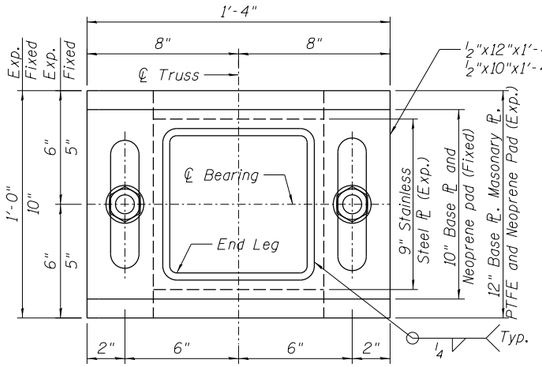


SECTION C-C

(Upper Support Shown)



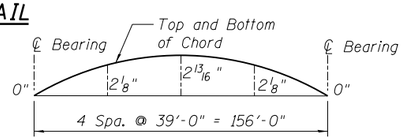
ELEVATION



PLAN

END LEG BEARING DETAIL

(Expansion Bearing Shown)



CAMBER DIAGRAM

Camber Calculated for Dead Load Only

Note:

Location of Fixed and Expansion bearings shall match the girder.

Cost for elastomeric neoprene leveling pad, PTFE surface, shall be included in the cost of "Furnishing and Erecting Structural Steel, Bridge No. 1.

Anchor Bolts shall be ASTM F1554 all-thread (or an Engineer approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor Bolts shall be installed in blockouts with non-shrink grout meeting the material requirements of Article 1024.02 of the Standard Specifications. Blockouts shall be clean prior to grouting and grout installed according to manufactures recommendations.

The PTFE shall be bonded directly to the masonry plate according to the manufacturers recommendations.

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FINAL

FILE NAME =

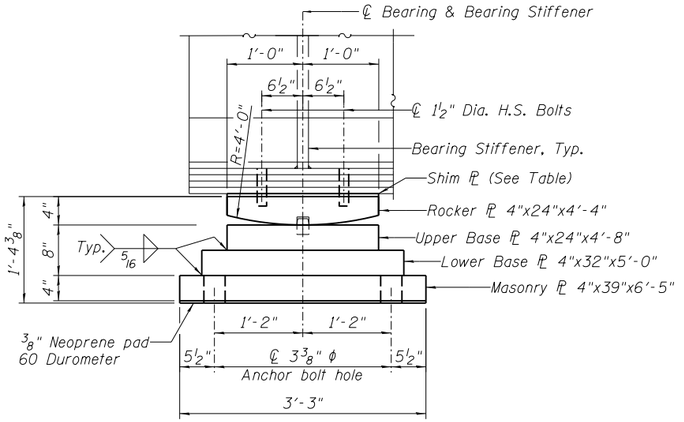
HANSON

USER NAME = Pop00275	DESIGNED - MJW	REVISED -
	CHECKED - TJH/TDP	REVISED -
PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

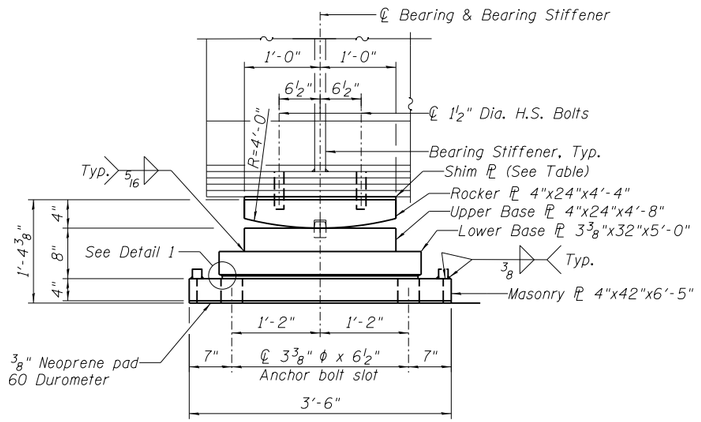
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AESTHETIC TRUSS
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 18 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	177
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



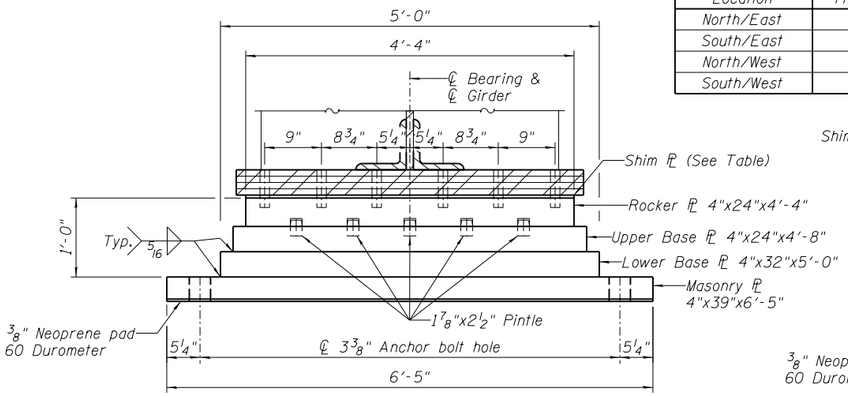
ELEVATION - FIXED BEARING



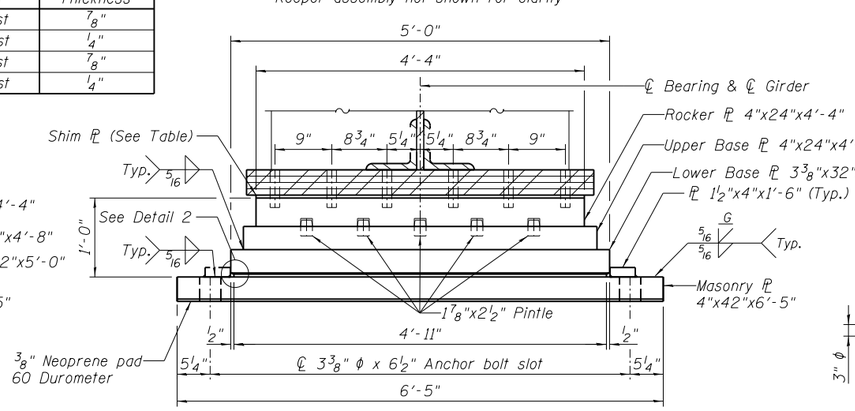
ELEVATION - EXPANSION BEARING

Keeper assembly not shown for clarity

SHIM PLATE THICKNESS	
Location	Thickness
North/East	7/8"
South/East	1/4"
North/West	7/8"
South/West	1/4"

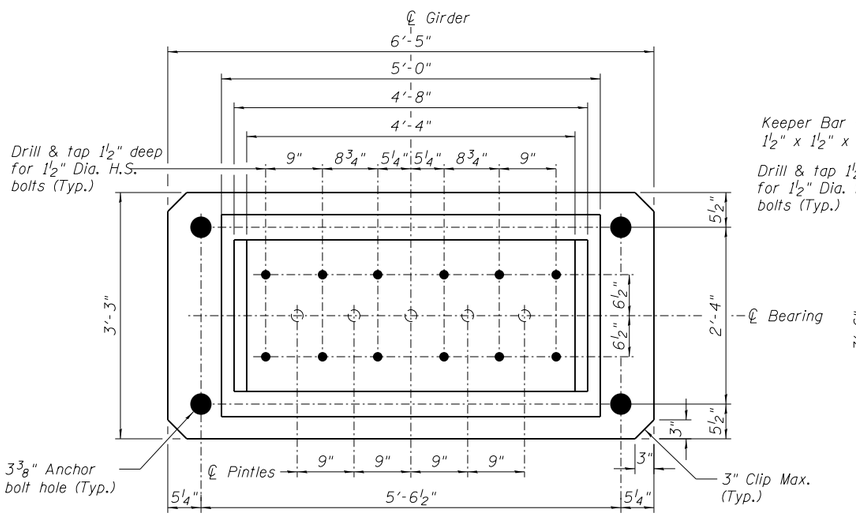


END VIEW - FIXED BEARING



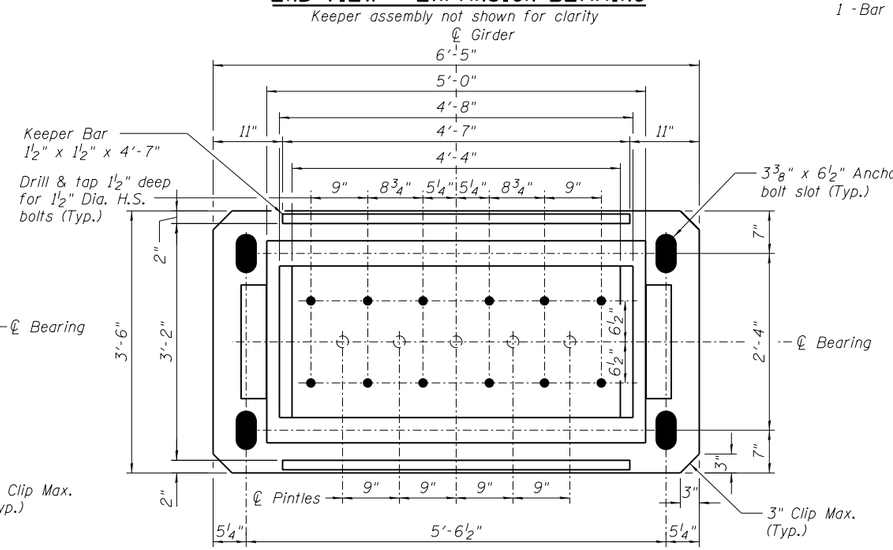
END VIEW - EXPANSION BEARING

Keeper assembly not shown for clarity



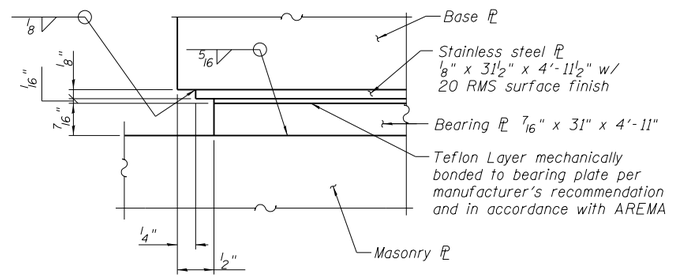
PLAN VIEW - FIXED BEARING

(2 Required)

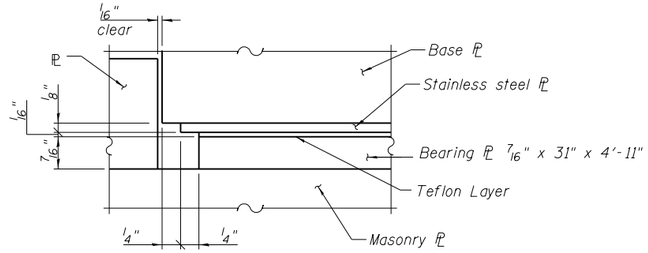


PLAN VIEW - EXPANSION BEARING

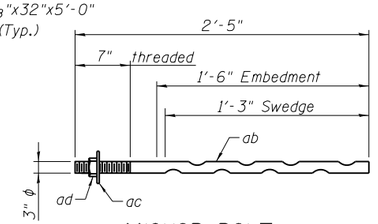
(2 Required)



DETAIL 1

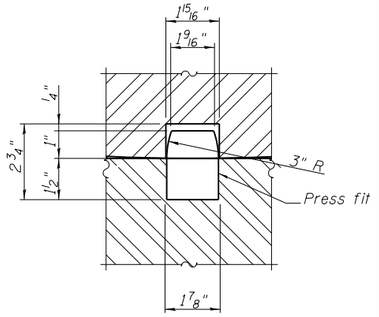


DETAIL 2



ANCHOR BOLT

1 - Bar 3" Dia. x 2'-5" - ab
1 - Bar 5½" Dia. x ¼" w/ 3⅛" Dia. hole at center - ac
1 - Heavy Hex Nut - ad
Weight = 69 lbs.
Galvanize after fabrication
(16 Required)



PINTLE DETAIL

NOTES:

1. Steel used for bearing assemblies shall conform to ASTM A709 GR50, unless noted otherwise. Anchor bolts shall conform to ASTM F1554 Gr 105. Cost of bearings and anchor bolts shall be included in the cost of "Furnishing and Erecting Structural Steel, Bridge No. 1".
2. Stainless steel shall conform to ASTM A480.
3. Bearing assembly weldments shall be stressed relieved by heat treating prior to finish machining, per current AWS structural welding codes.
4. Teflon Layer shall be composed of virgin unfilled TFE resin, unfilled TFE sheets or unfilled TFE fabric. Filler material, such as milled glass fibers will not be allowed. Teflon layer shall conform to the requirements of AREMA Chapter 15.
5. All surfaces in moving contact shall be finished 125/.
6. All dimensions shown are final dimensions after machining.
7. Bearings to be shop fitted to girders, match marked and assembled in units for shipping.
8. Anchor bolts, nuts and plate washers shall be galvanized in accordance with ASTM B695, Class 50.
9. Anchor bolt nuts shall be A563 Gr DH Heavy Hex & Washers shall be F436 Type 1.
10. Bolt removal and replacements to gain access to properly tighten bearing bolts is incidental to steel erection.

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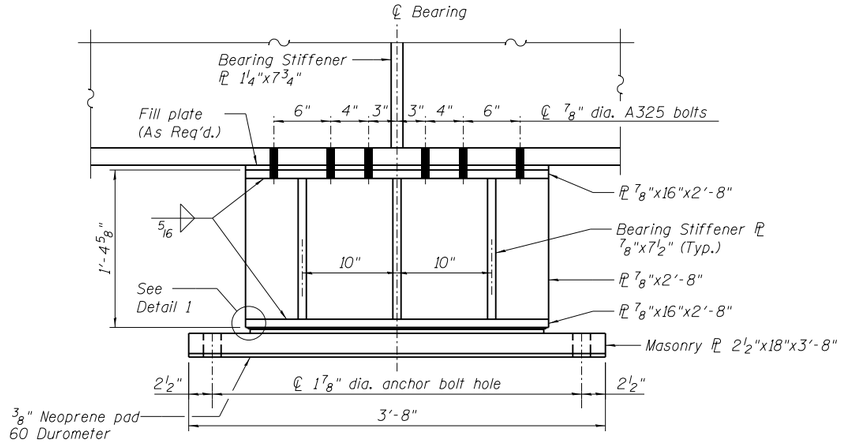
FINAL

FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -
		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

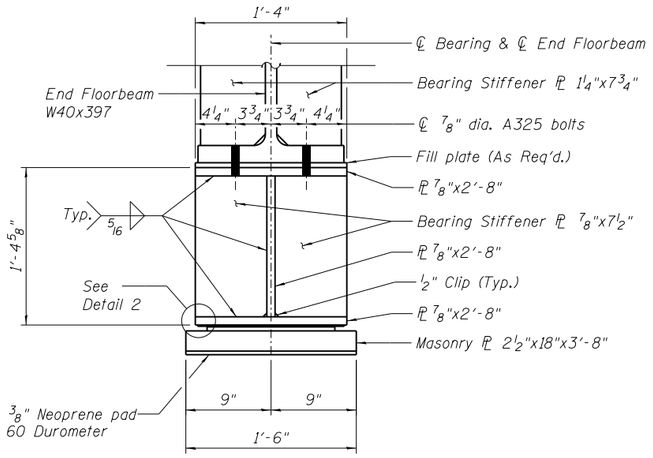
TPG BEARING DETAILS
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 19 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	178
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		



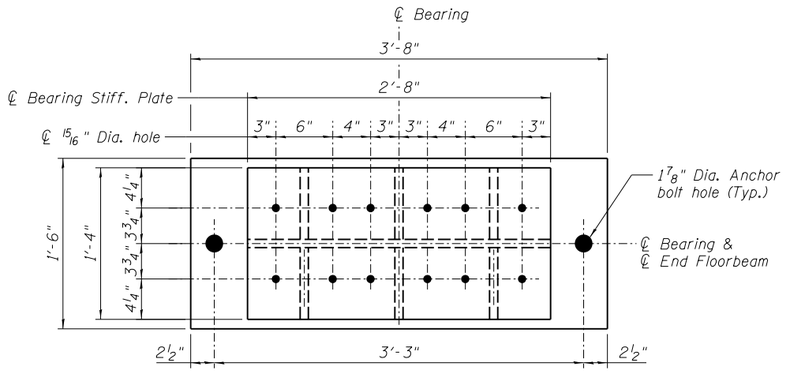
ELEVATION - END FLOORBEAM BEARING

Anchor Bolt not shown for clarity



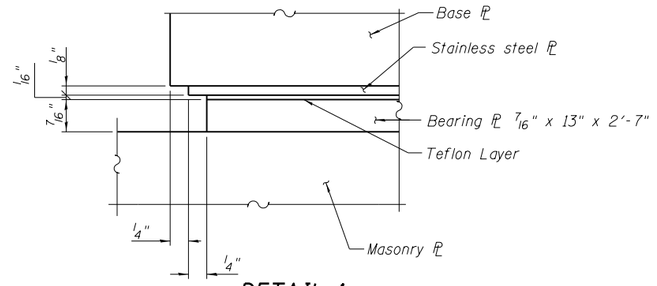
END VIEW - END FLOORBEAM BEARING

Anchor Bolt not shown for clarity

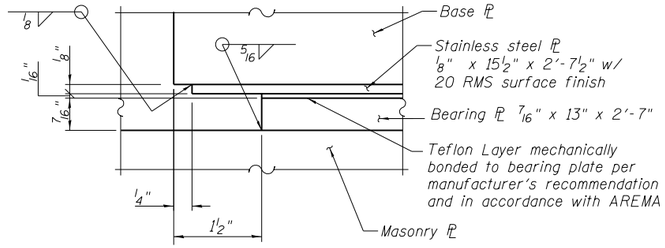


PLAN VIEW - END FLOORBEAM BEARING

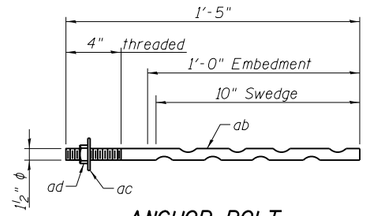
(2 Required)



DETAIL 1



DETAIL 2



ANCHOR BOLT

1 - Bar 1½" Dia. x 1'-5" - ab
1 - Bar 3" Dia. x ¼" w/ 1⅝" Dia. hole at center - ac
1 - Heavy Hex Nut - ad
Weight = 10 lbs.
Galvanize after fabrication
(4 Required)

NOTES:

1. Steel used for bearing assemblies shall conform to ASTM A709 GR50, unless noted otherwise. Anchor bolts shall conform to ASTM F1554 Gr 105. Cost of bearings and anchor bolts shall be included in the cost of "Furnishing and Erecting Structural Steel, Bridge No. 1".
2. Stainless steel shall conform to ASTM A480.
3. Bearing assembly weldments shall be stressed relieved by heat treating prior to finish machining, per current AWS structural welding codes.
4. Teflon Layer shall be composed of virgin unfilled TFE resin, unfilled TFE sheets or unfilled TFE fabric. Filler material, such as milled glass fibers will not be allowed. Teflon layer shall conform to the requirements of AREMA Chapter 15.
5. All surfaces in moving contact shall be finished 125√.
6. All dimensions shown are final dimensions after machining.
7. Bearings to be shop fitted to girders, match marked and assembled in units for shipping.
8. Anchor bolts, nuts and plate washers shall be galvanized in accordance with ASTM B695, Class 50.
9. Anchor bolt nuts shall be A563 Gr DH Heavy Hex & Washers shall be F436 Type 1.
10. Bolt removal and replacements to gain access to properly tighten bearing bolts is incidental to steel erection.

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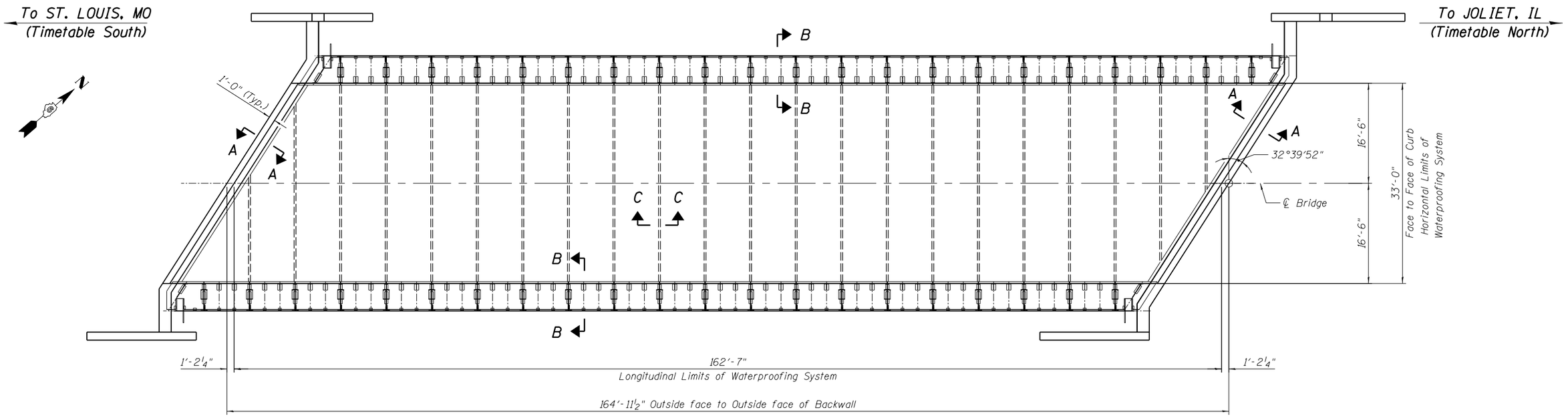
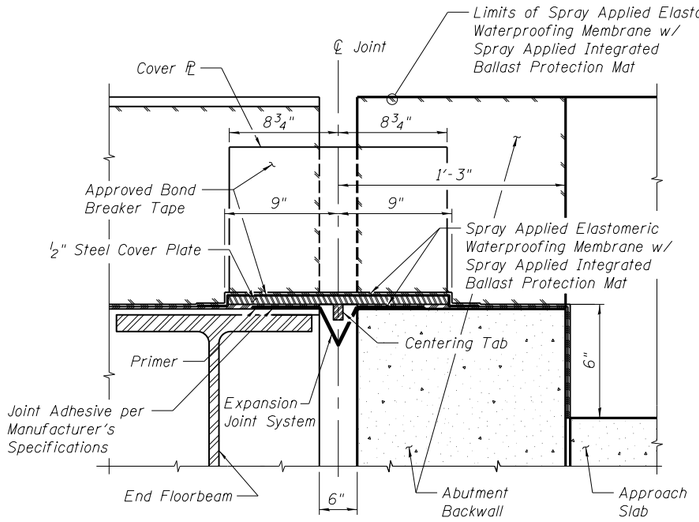
FINAL

FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	END FLOORBEAM BEARING DETAILS STRUCTURE 084-9960 - 5TH ST UPRR
HANSON		CHECKED - TJH/TDP	REVISED -		
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -		
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -		SHEET NO. 20 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	179
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

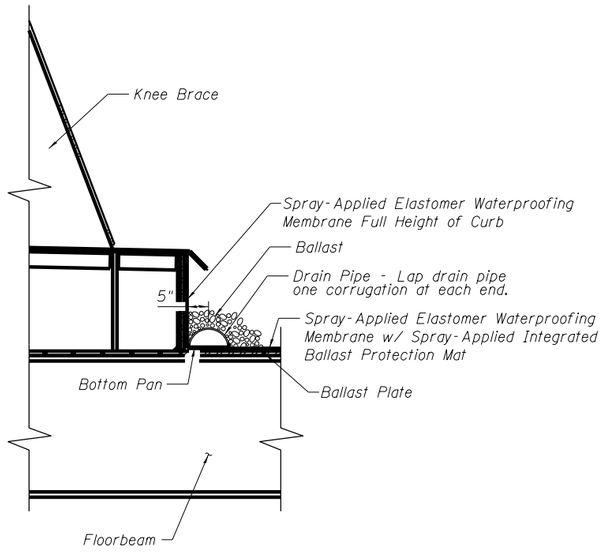


WATERPROOFING LIMITS PLAN

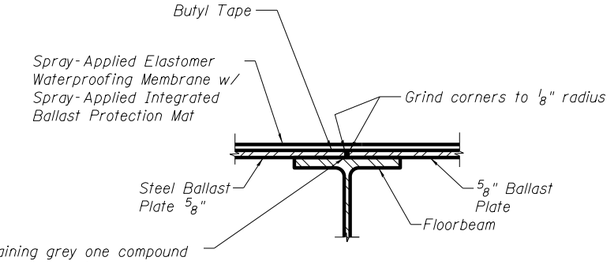


Note:
1. Bridge deck membrane continuous thru joint.
2. Typical Joint Detail shown for information only. Waterproofing installer shall determine final details in accordance with the manufacturer's recommendations.

SECTION A-A
(At Rt. ℄'s to Bk. of Abut.)



SECTION B-B



SECTION C-C

Notes:

1. Prepare surfaces and apply in accordance with Manufacturer's recommendations.
2. Structural steel cover plates shall be galvanized.
3. Cost of joint adhesive and bond breaker tape shall be included in the cost of "Membrane Waterproofing (Special)".
4. The cover plate is included in the weight of the Structural Steel and will be paid for as "Furnishing and Erecting Structural Steel, Bridge No. 1".
5. For cover plate details see Sheet 15 of 28.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Membrane Waterproofing (Special)	Sq. Ft.	6,212

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FINAL

FILE NAME =

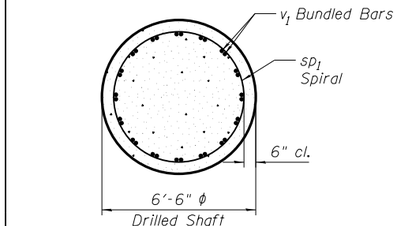
HANSON

USER NAME = Pop00275	DESIGNED - MJW	REVISED -	
	CHECKED - TJH/TDP	REVISED -	
PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -	
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -	

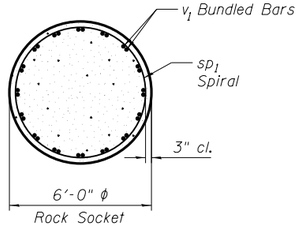
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK WATERPROOFING
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 21 OF 28 SHEETS

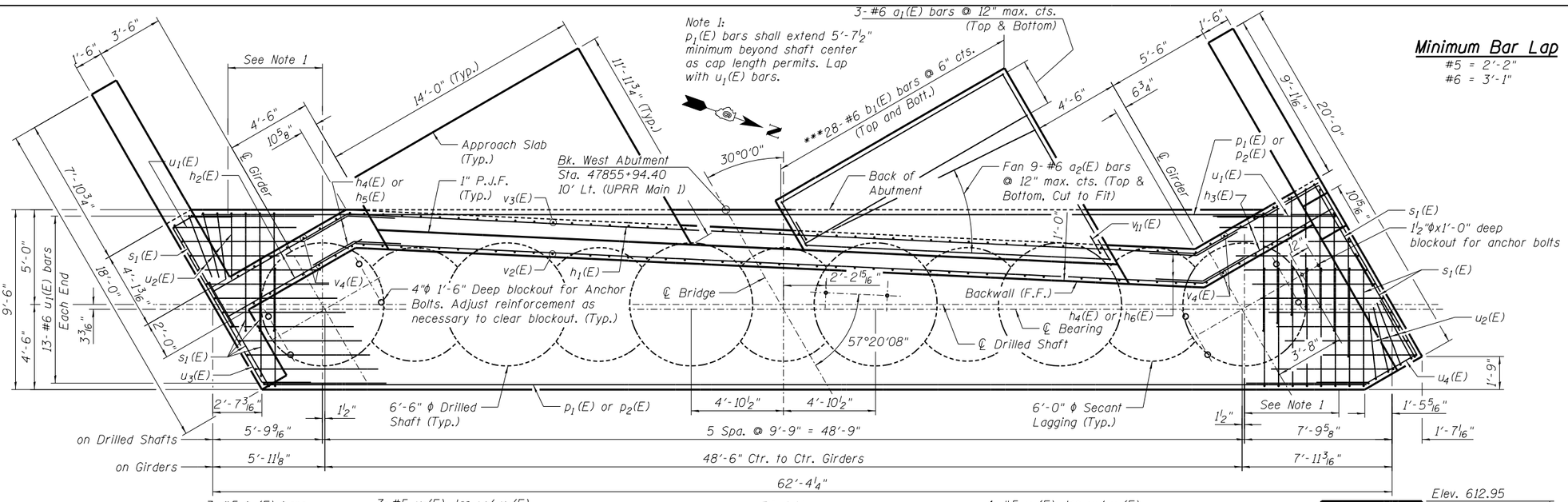
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	180
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



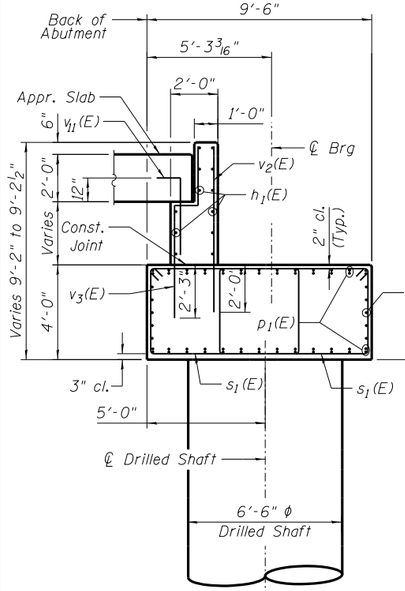
SECTION B-B



SECTION C-C

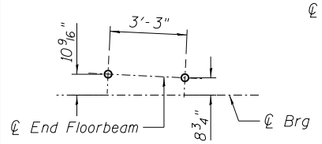


PLAN



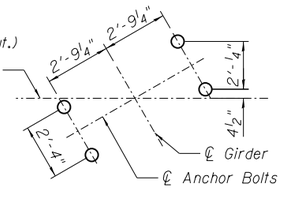
SECTION A-A

(At Rt. L's to Bk. of Abut.)



BLOCKOUT LAYOUT

(At End Floorbeam Location)



BLOCKOUT LAYOUT

(At Girders Locations)

ELEVATION - WEST ABUTMENT

(Looking West)

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FINAL

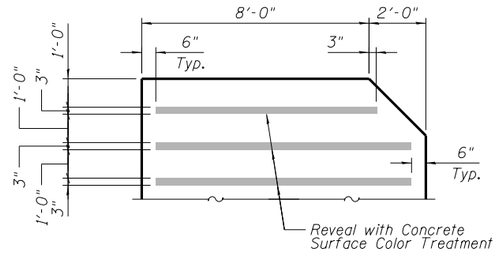
FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -
		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

HANSON

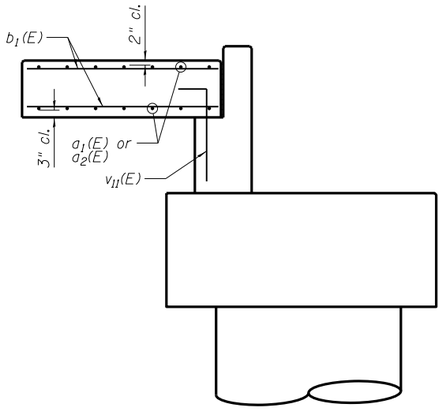
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 22 OF 28 SHEETS

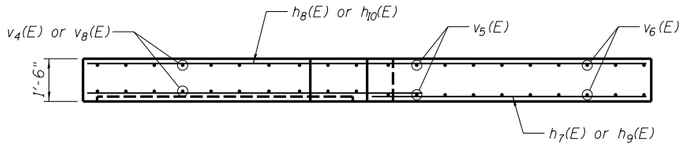
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	181
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



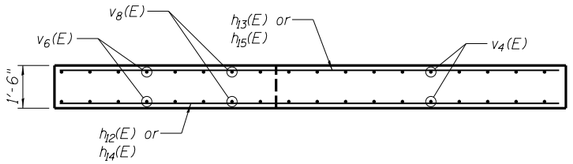
CONCRETE REVEAL DETAIL



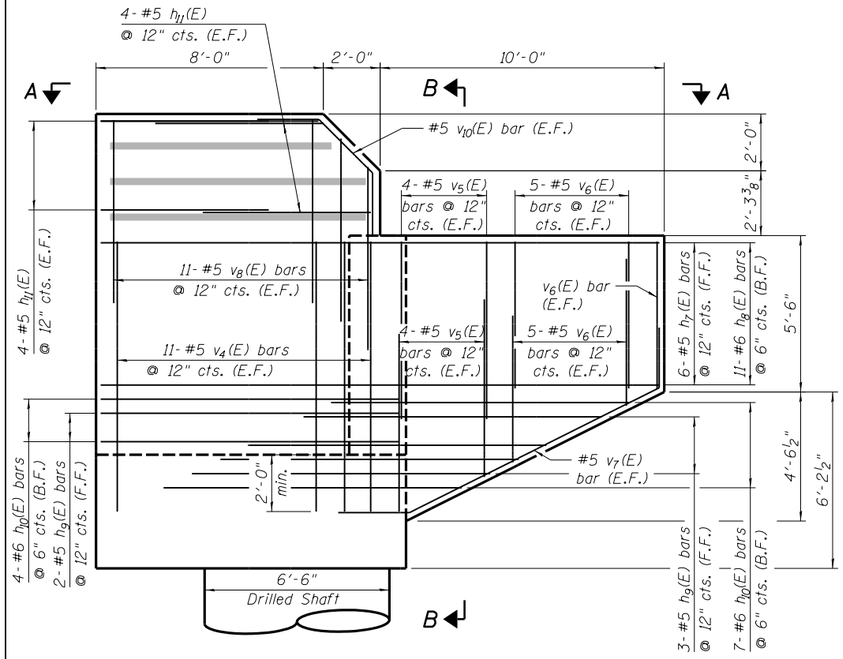
APPROACH SLAB SECTION



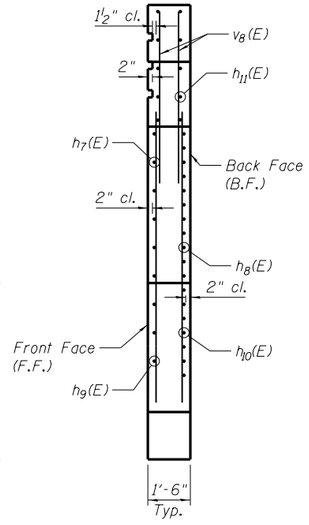
SECTION A-A - PLAN VIEW



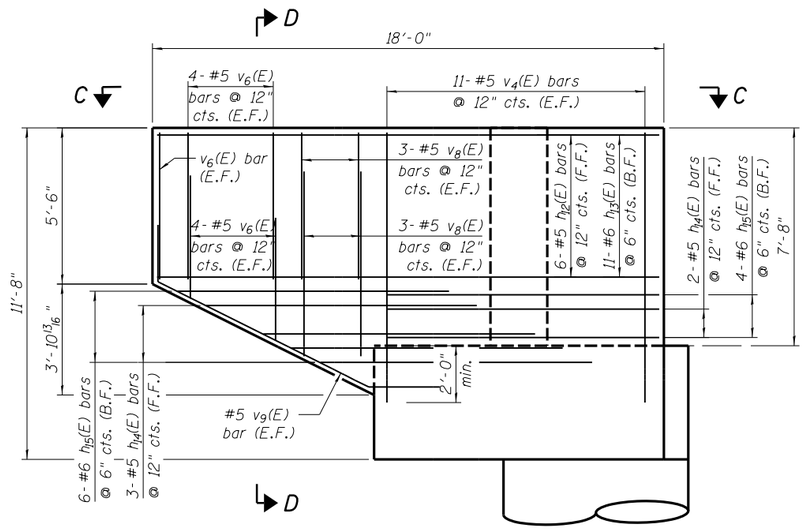
SECTION C-C - PLAN VIEW



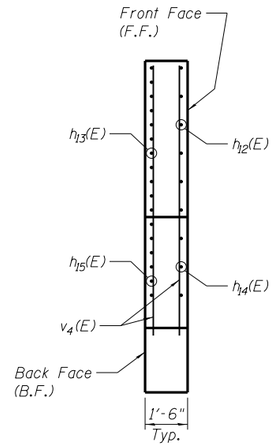
ELEVATION - NORTH WING END VIEW
(Looking South)



WINGWALL SECTION B-B



ELEVATION - SOUTH WING END VIEW
(Looking North)



WINGWALL SECTION D-D

pw:\\spi-svr306.hanson.dom:Hanson Projects\Documents\09Jobs\09L0179B\CAD\Struct\5th\Sheet\0849960-09L0179B-UPRR-002

FINAL

FILE NAME =

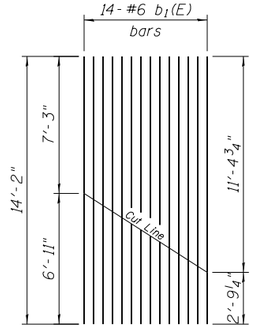
HANSON

USER NAME = Pop00275	DESIGNED - MJW	REVISED -	
	CHECKED - TJH/TDP	REVISED -	
PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -	
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

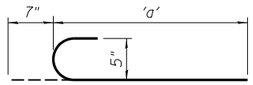
WEST ABUTMENT DETAILS
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 23 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	182
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



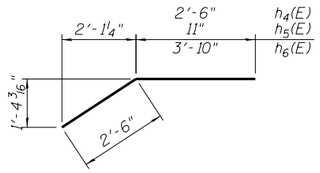
BAR CUTTING DIAGRAM FOR b_1(E)

Order b_1(E) full length. Cut as shown and use remainder of bars in opposite face.

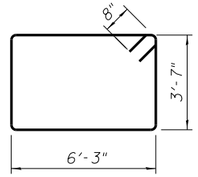


BARS h_2(E) & h_3(E

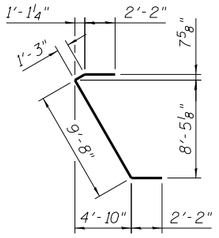
Bar	'a'
h_2(E)	8'-3"
h_3(E)	7'-11"



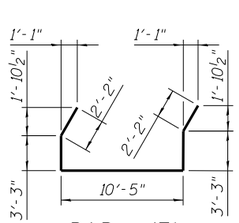
BARS h_4(E) & h_5(E) & h_6(E)



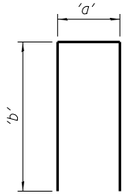
BAR s_1(E)



BAR u_3(E)

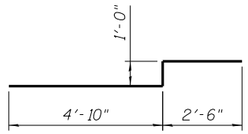


BAR u_4(E)

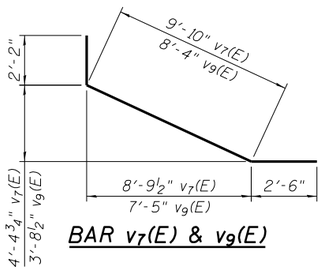


Bar	'a'	'b'
u_1(E)	3'-5"	6'-6"
u_2(E)	3'-7"	3'-6"
u_5(E)	1'-8"	0'-10"

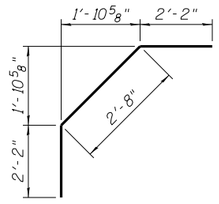
BARS u_1(E), u_2(E), u_5(E)



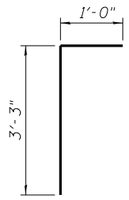
BAR v_3(E)



BAR v_7(E) & v_9(E)



BARS v_{10}(E)



BAR v_{11}(E)

BILL OF MATERIAL
WEST ABUTMENT

Bar	No.	Size	Length	Shape
a_1(E)	12	#6	13'-8"	—
a_2(E)	36	#6	16'-0"	—
b_1(E)	56	#6	14'-2"	—
h_1(E)	24	#5	23'-7"	—
h_2(E)	18	#5	8'-11"	⊂
h_3(E)	18	#5	8'-6"	⊂
h_4(E)	24	#5	5'-0"	⟋
h_5(E)	6	#5	3'-5"	⟋
h_6(E)	6	#5	6'-4"	⟋
h_7(E)	6	#5	19'-8"	—
h_8(E)	11	#6	19'-8"	—
h_9(E)	5	#5	10'-0"	—
h_{10}(E)	11	#6	10'-11"	—
h_{11}(E)	16	#5	5'-11"	—
h_{12}(E)	6	#5	17'-8"	—
h_{13}(E)	11	#6	17'-8"	—
h_{14}(E)	5	#5	9'-1"	—
h_{15}(E)	10	#6	10'-1"	—
p_1(E)	52	#8	60'-0"	—
p_2(E)	20	#5	31'-4"	—
s_1(E)	142	#6	21'-0"	◪
sp_1	6	#6	*32'-4"	∧∧∧
u_1(E)	26	#6	16'-5"	⌋
u_2(E)	8	#5	10'-7"	⌋
u_3(E)	5	#5	14'-11"	⌐
u_4(E)	5	#5	21'-4"	⌐
u_5(E)	20	#5	3'-4"	⌋
v_1	192	#18	35'-2"	—
v_2(E)	40	#5	7'-1"	—
v_3(E)	40	#6	8'-4"	⌐—
v_4(E)	84	#5	9'-7"	—
v_5(E)	16	#5	6'-3"	—
v_6(E)	40	#5	5'-2"	—
v_7(E)	2	#5	14'-6"	⌒
v_8(E)	22	#5	6'-6"	—
v_9(E)	2	#5	13'-0"	⌒
v_{10}(E)	2	#5	7'-0"	⌒
v_{11}(E)	32	#6	4'-3"	⌙
Structure Excavation			Cu. Yds.	191
Concrete Structures			Cu. Yds.	143.9
Drilled Shaft in Soil			Cu. Yds.	136.9
Drilled Shaft in Rock			Cu. Yds.	91.1
Secant Lagging			Cu. Ft.	2,624
Reinforcement Bars			Pound	112,430
Reinforcement Bars, Epoxy Coated			Pound	21,620
Crosshole Sonic Logging Access Ducts			Foot	1,280

* Length is height of spiral

MIN. BAR LAPS FOR SPIRAL

#6 bars = 2'-7"

FINAL

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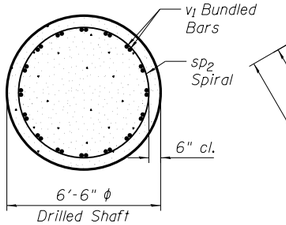
FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -
HANSON		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 0.2.0000 '' / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

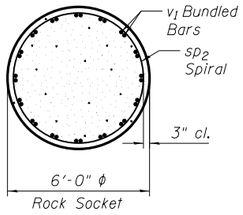
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT BILL OF MATERIAL
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 24 OF 28 SHEETS

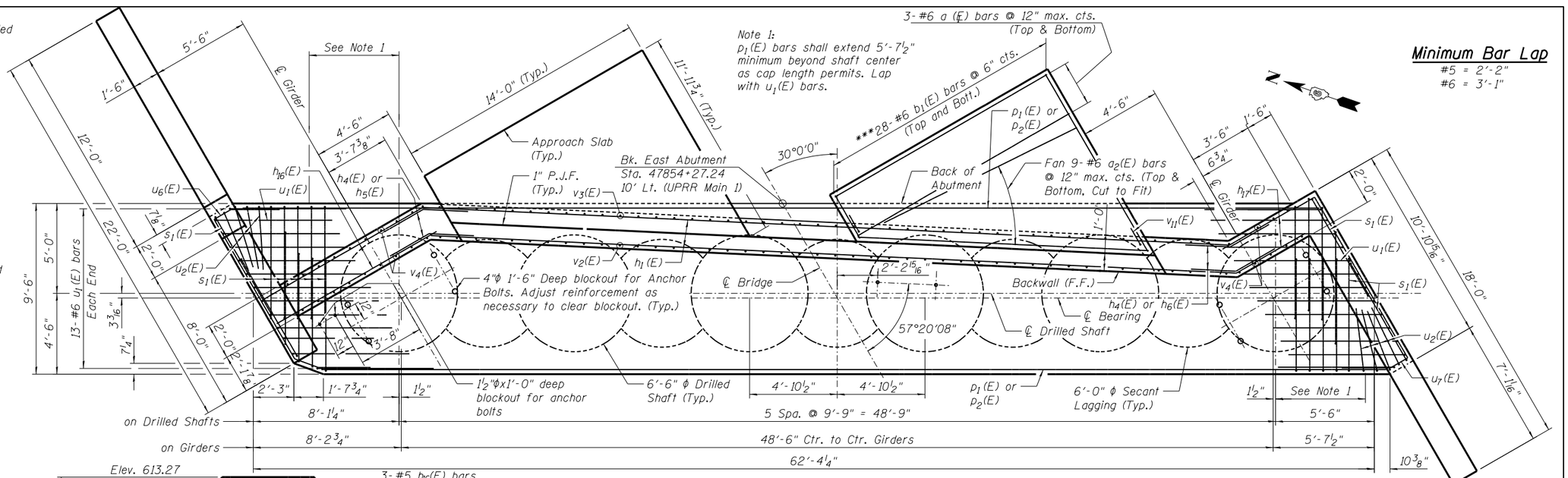
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	183
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



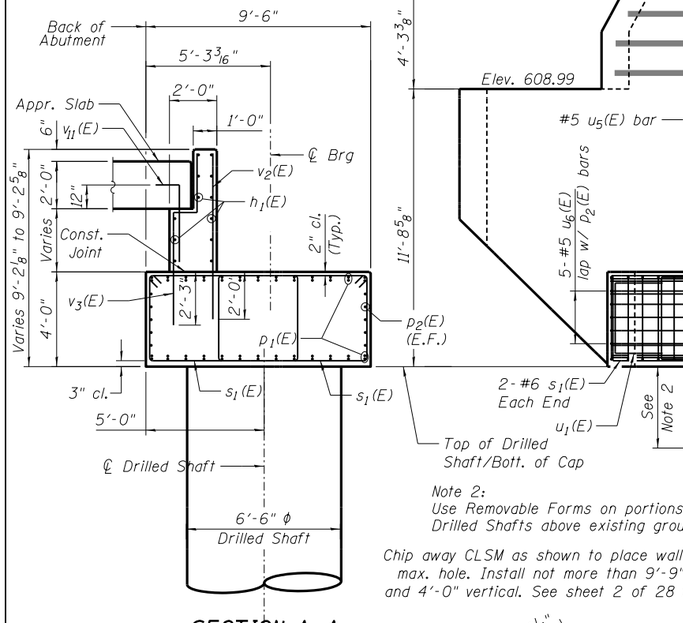
SECTION B-B



SECTION C-C

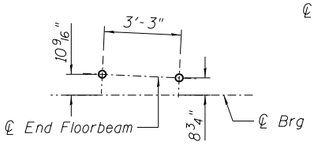


PLAN



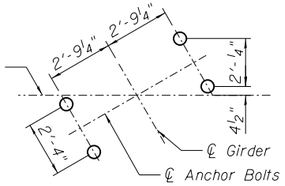
SECTION A-A

(At Rt. L's to Bk. of Abut.)



BLOCKOUT LAYOUT

(At End Floorbeam Location)



BLOCKOUT LAYOUT

(At Girders Locations)

ELEVATION - EAST ABUTMENT

(Looking East)

* The quantities and reinforcement detailing are based on the top of shaft and the estimated top of rock elevations shown and may change based on the actual top of rock encountered at each shaft and the final top of shaft elevation.

** Provide 1½ extra turns at top and bottom of each drilled shaft.

*** Order b_1(E) bars full length. Cut to fit skew and use remainder of bars in opposite face.

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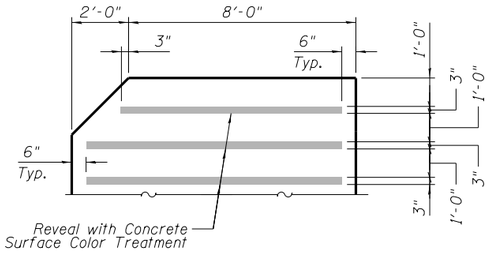
FINAL

FILE NAME =	USER NAME = Pop00275	DESIGNED - MJW	REVISED -
		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

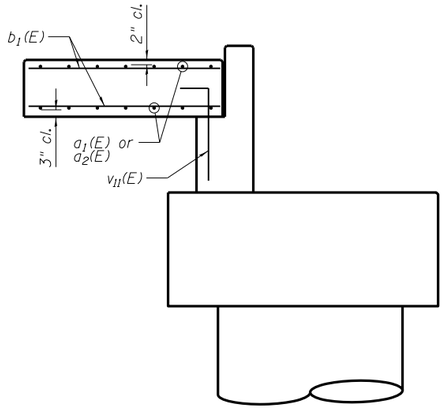
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 25 OF 28 SHEETS

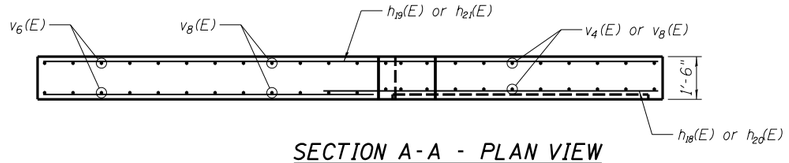
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	184
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



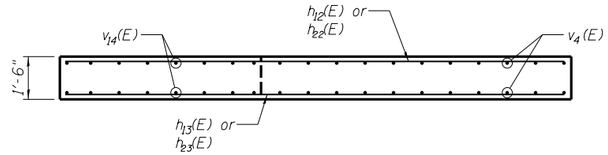
CONCRETE REVEAL DETAIL



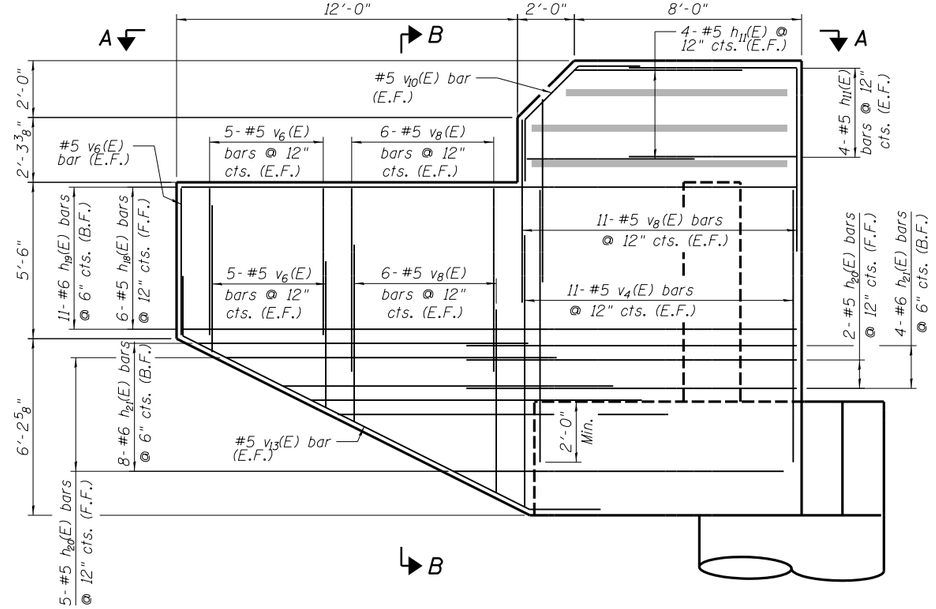
APPROACH SLAB SECTION



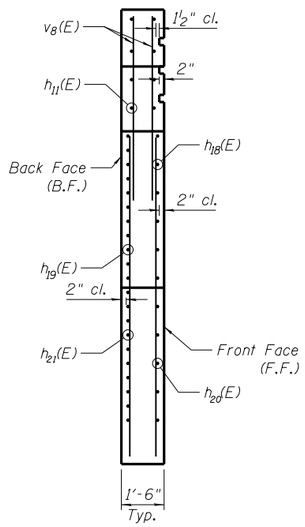
SECTION A-A - PLAN VIEW



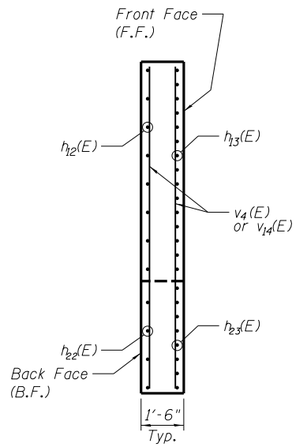
SECTION C-C - PLAN VIEW



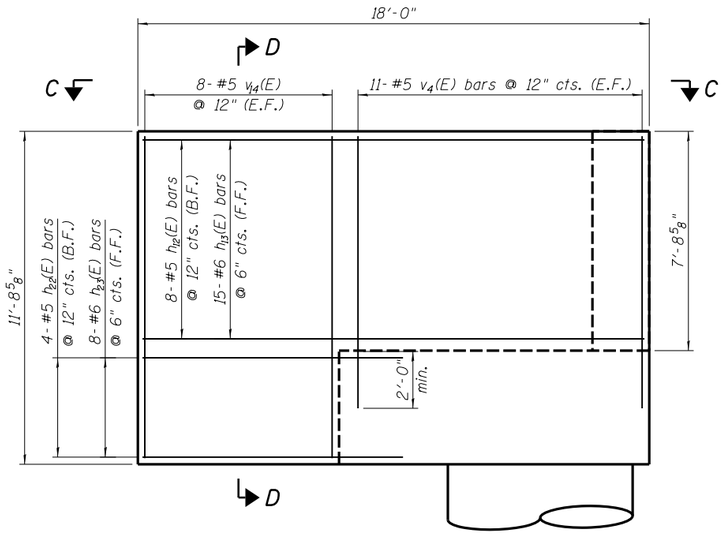
ELEVATION - NORTH WING END VIEW
(Looking South)



WINGWALL
SECTION B-B



CHEEK WALL
SECTION D-D



ELEVATION - SOUTH CHEEK END VIEW
(Looking North)

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FINAL

FILE NAME =

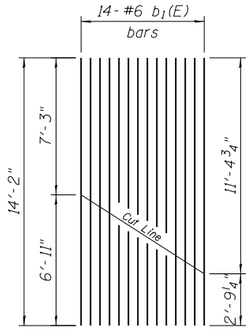
HANSON

USER NAME = Pop00275	DESIGNED - MJW	REVISED -	
	CHECKED - TJH/TDP	REVISED -	
PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -	
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

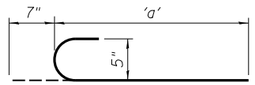
EAST ABUTMENT DETAILS
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 26 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	185
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



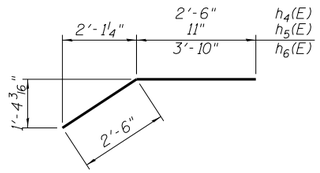
BAR CUTTING DIAGRAM FOR b_1(E)

Order b_1(E) full length. Cut as shown and use remainder of bars in opposite face.

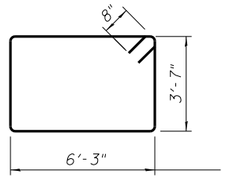


BARS h_{16}(E) & h_{17}(E

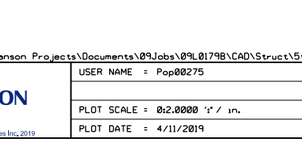
Bar	'a'
h_{16}(E)	10'-4"
h_{17}(E)	5'-11"



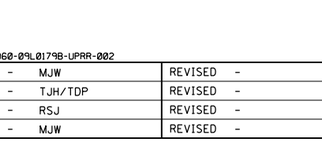
BARS h_4(E) & h_5(E) & h_6(E)



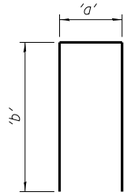
BAR s_1(E)



BAR u_6(E)

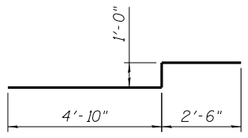


BAR u_7(E)

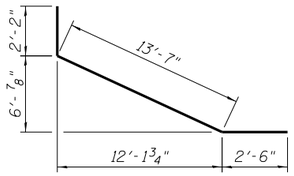


Bar	'a'	'b'
u_1(E)	3'-5"	6'-6"
u_2(E)	3'-7"	3'-6"
u_5(E)	1'-8"	0'-10"

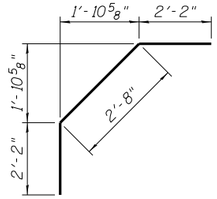
BARS u_1(E), u_2(E), u_5(E)



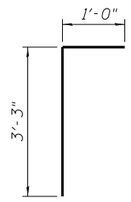
BAR v_3(E)



BAR v_{13}(E)



BARS v_{10}(E)



BAR v_{11}(E)

BILL OF MATERIAL
EAST ABUTMENT

Bar	No.	Size	Length	Shape
a_1(E)	12	#6	13'-8"	
a_2(E)	36	#6	16'-0"	
b_1(E)	56	#6	14'-2"	
h_1(E)	24	#5	23'-7"	
h_4(E)	24	#5	5'-0"	
h_5(E)	6	#5	3'-5"	
h_6(E)	6	#5	6'-4"	
h_{11}(E)	16	#5	5'-11"	
h_{12}(E)	8	#5	17'-8"	
h_{13}(E)	15	#6	17'-8"	
h_{16}(E)	18	#5	10'-11"	
h_{17}(E)	18	#5	6'-6"	
h_{18}(E)	6	#5	21'-8"	
h_{19}(E)	11	#6	21'-8"	
h_{20}(E)	7	#5	11'-2"	
h_{21}(E)	14	#6	12'-1"	
h_{22}(E)	4	#5	8'-11"	
h_{23}(E)	8	#6	9'-2"	
p_1(E)	52	#8	60'-0"	
p_2(E)	20	#5	31'-4"	
s_1(E)	144	#6	21'-0"	
sp_2	6	#6	*32'-7"	
u_1(E)	26	#6	16'-5"	
u_2(E)	8	#5	10'-7"	
u_5(E)	20	#5	3'-4"	
u_6(E)	5	#5	16'-5"	
u_7(E)	5	#5	17'-4"	
v_1	192	#18	35'-1"	
v_2(E)	40	#5	7'-1"	
v_3(E)	40	#6	8'-4"	
v_4(E)	84	#5	9'-7"	
v_6(E)	22	#5	5'-2"	
v_8(E)	46	#5	6'-6"	
v_{10}(E)	2	#5	7'-0"	
v_{11}(E)	32	#6	4'-3"	
v_{12}(E)	2	#5	18'-3"	
v_{13}(E)	16	#5	11'-4"	

Structure Excavation	Cu. Yds.	127
Concrete Structures	Cu. Yds.	147.1
Drilled Shaft in Soil	Cu. Yds.	139.1
Drilled Shaft in Rock	Cu. Yds.	91.1
Secant Lagging	Cu. Ft.	2,668
Reinforcement Bars	Pound	112,400
Reinforcement Bars, Epoxy Coated	Pound	22,050
Crosshole Sonic Logging Access Ducts	Foot	1,291

* Length is height of spiral

MIN. BAR LAPS FOR SPIRAL

#6 bars = 2'-7"

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FINAL

FILE NAME =

HANSON

USER NAME = Pop00275	DESIGNED - MJW	REVISED -
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PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT BILL OF MATERIAL
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 27 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	186
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

B-4
Sta. 999+93, 27' LT
5/6/58

	N	Qu	w%	
601.4				CINDER, COAL, & misc. FILL.
	7			
597.4				
	14	2.67		Brown silty CLAY.
594.4 ▽				
593.9 Oh	9	0.53		Brown & gray SILT, tr. clay.
	9	0.85		
589.9				
	7	0.53		Brown SILT, tr. clay.
	6	0.32		
585.4				
	4	0.53		Gray silty CLAY.
582.4				
	7	1.60		No Description.
579.4				
	39	8.54		Brown SILT.
576.4				
	100/7"	10.15		Gray decomposed SHALE.
573.5	100/5"			
				Bottom of Hole = 27.9 feet

B-147
Sta. 100+21, 20' LT
9/10/13

	N	Qu	w%	
584.4				
583.55				ASPHALT.
583.35				AGGREGATE.
	6		5	Brown fine sandy SILT, some concrete fragments - FILL.
580.85				
	4	0.41B	22	Gray fine sandy silty CLAY, trace coarse sand and small gravel.
578.35				
	32	4.50P	14	
575.85				
	80	4.50P	12	Brown and gray SHALE. (HIGHLY WEATHERED SHALE)
	50/5"	4.50P	10	Gray SHALE.
	50/4"		8	
569.35				
	Rec. = 38%			
	RQD = 38%			Gray clayey SHALE, micaceous.
	Rec. = 96%			
	RQD = 46%			
	15.2			
	Rec. = 93% RQD = 82%			
	9.5			
	Rec. = 71% RQD = 28%			
	Rec. = 93%			
	RQD = 0%			
556.05				
	Rec. = 100%			
	RQD = 0%			COAL.
	Rec. = 90% RQD = 67%			
549.15				
	2.5			Gray clayey SHALE, micaceous.
548.35				Bottom of Hole = 36.0 feet

B-2
Sta. 1000+69, 27' RT
5/6/58

	N	Qu	w%	
601.4				
600.4				Black CLAY FILL.
	14			CINDER, COAL, & misc. FILL.
597.9				
	17	1.60		Brown & gray silty CLAY.
594.4 ▽				
593.9 Oh	11			Brown & gray SILT, tr. clay. Became soft at 592.9.
	3	0.53		
589.9				
	5	0.85		Brown SILT, tr. clay.
587.9				
	4	0.53		Brown & gray silty CLAY.
585.4				
	4	1.06		Gray silty CLAY.
	5	1.06		
579.4				
	34	10.15		Brown SILT, tr. clay.
575.4	100/10"	8.54		
				Gray decomposed SHALE.
573.2	100/6"	8.54		
				Bottom of Hole = 28.2 feet

LEGEND

N	Standard Penetration Test N (blows/ft)
Qu	Unconfined Strength (tsf)
w%	Natural Moisture Content (%)
DD ▽ 558.10	Water Surface Elevation Encountered in Boring DD = during drilling Oh = at completion 24h = 24 hours after completion

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FINAL

FILE NAME =

HANSON

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	CHECKED - TJH/TDP	REVISED -	
PLOT SCALE = 0:2.0000 ':' / in.	DRAWN - RSJ	REVISED -	
PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE DATA PROFILE
STRUCTURE 084-9960 - 5TH ST UPRR
SHEET NO. 28 OF 28 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	187
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

Benchmark:
BM# D2218-07 - Chiseled 'X' on West Bolt of fire hydrant - SE Quad 6th Street and Wellesly Avenue.
Elevation = 598.884

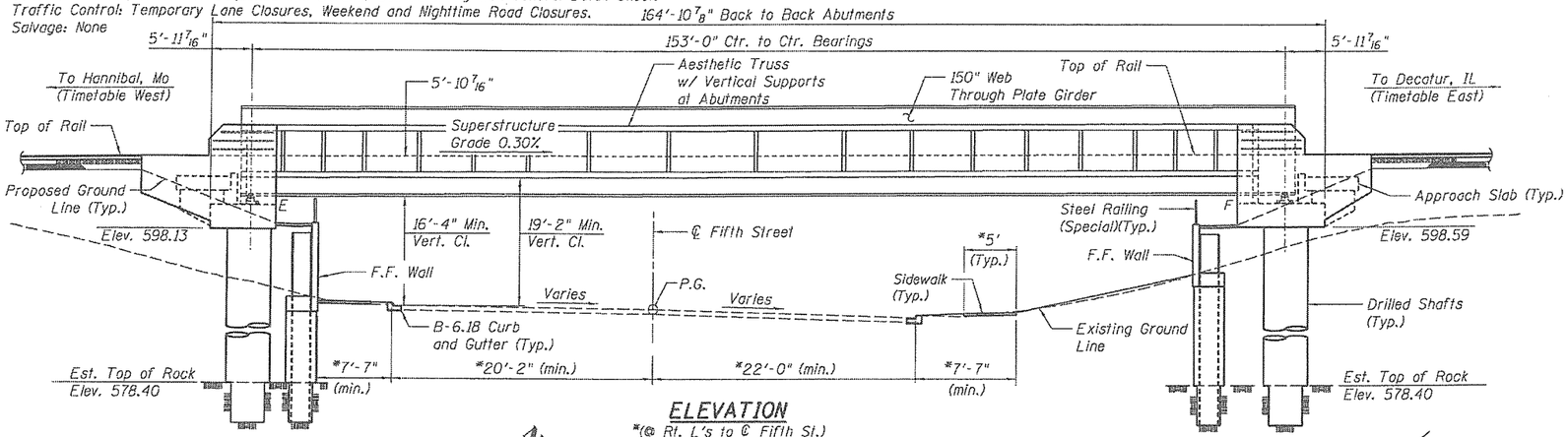
Existing Structure: SN 084-0032 - Built in 1961 under 109-15B. Steel through plate girder structure supported on closed abutments. Bk. to Bk. Abutment length is 95'-3" and ctr. to ctr. through girder width of 18'-6". Structure to be removed and replaced.

Construction Sequence: For Sequence and Details, See retaining wall General Detail Sheet.

Traffic Control: Temporary Lane Closures, Weekend and Nighttime Road Closures.

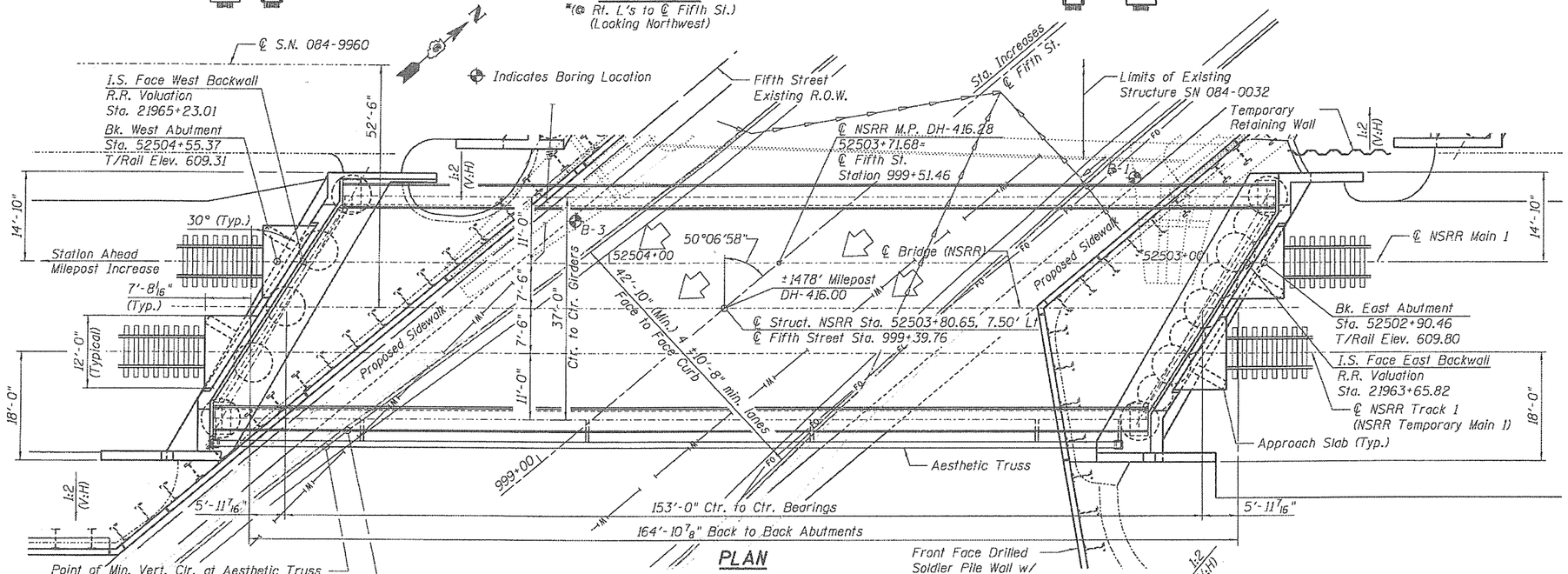
Salvage: None

Railroad utilities may exist within existing NSRR right-of-way. Prior to the start of any construction or excavation, utility relocations will have to be coordinated with the NSRR.

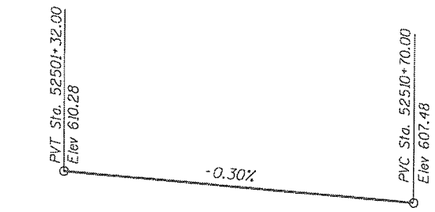


ELEVATION

*(℄ Rt. L's to ℄ Fifth St.)
(Looking Northwest)

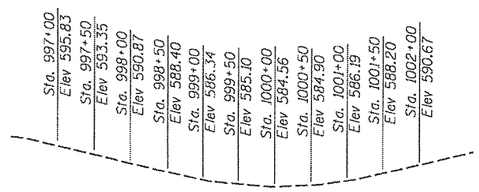


PLAN



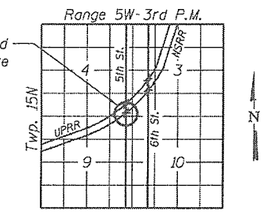
PROFILE GRADE - NSRR MAIN 1

(Along Top of Rail)



EXISTING PROFILE GRADE FIFTH STREET

Along ℄ of Fifth St.



LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 AREMA Specifications
Live Load Deflection: L/640
Composite Design for Floorbeam Defl. Req.
Design Speed: 50 m.p.h.

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (ASTM A709 Grade 50)

LOADING COOPER E-80

Impact: Diesel Impact
Allow 6" of Future Ballast Dead Load

SEISMIC DATA

AREMA

Ground Motion Level	PGA	S_s	S_1
Level 1 (100 Year)	0.010	0.025	0.005
Level 2 (475 Year)	0.040	0.090	0.035
Level 3 (2475 Year)	0.10	0.22	0.10

Soil Site Class = C

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AREMA Specifications.

LICENSED STRUCTURAL ENGINEER
MATTHEW J. WILLEY
081-006588
STATE OF ILLINOIS

Matthew J Willey
SIGNATURE
4-12-2019
DATE

LIC. EXP. DATE: 11-30-2020

GENERAL PLAN & ELEVATION
NSRR (MP DH-416.28) OVER BUSINESS 55 (5TH ST.)
F.A.P. 666 ALT.-SECTION (109)VB, (110)VB-5
SANGAMON COUNTY
STATION 52503+80.65
STRUCTURE NO. 084-9961

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FINAL

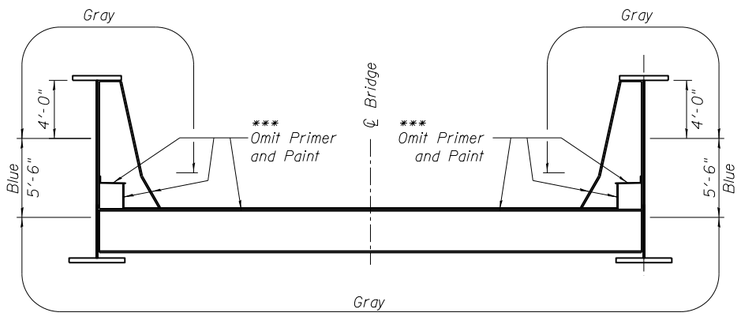
FILE NAME =	USER NAME = Pop08275	DESIGNED - MJW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE 084-9961 - 5TH ST NSRR
HANSON		CHECKED - TJH/TDP	REVISED -		SHEET NO. 1 OF 29 SHEETS
	PLOT SCALE = 0.2.0200 '' / in.	DRAWN - RSJ	REVISED -		
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(109) VB, (110) VB-5	SANGAMON	382	188
		CONTRACT NO. 93733		
*666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

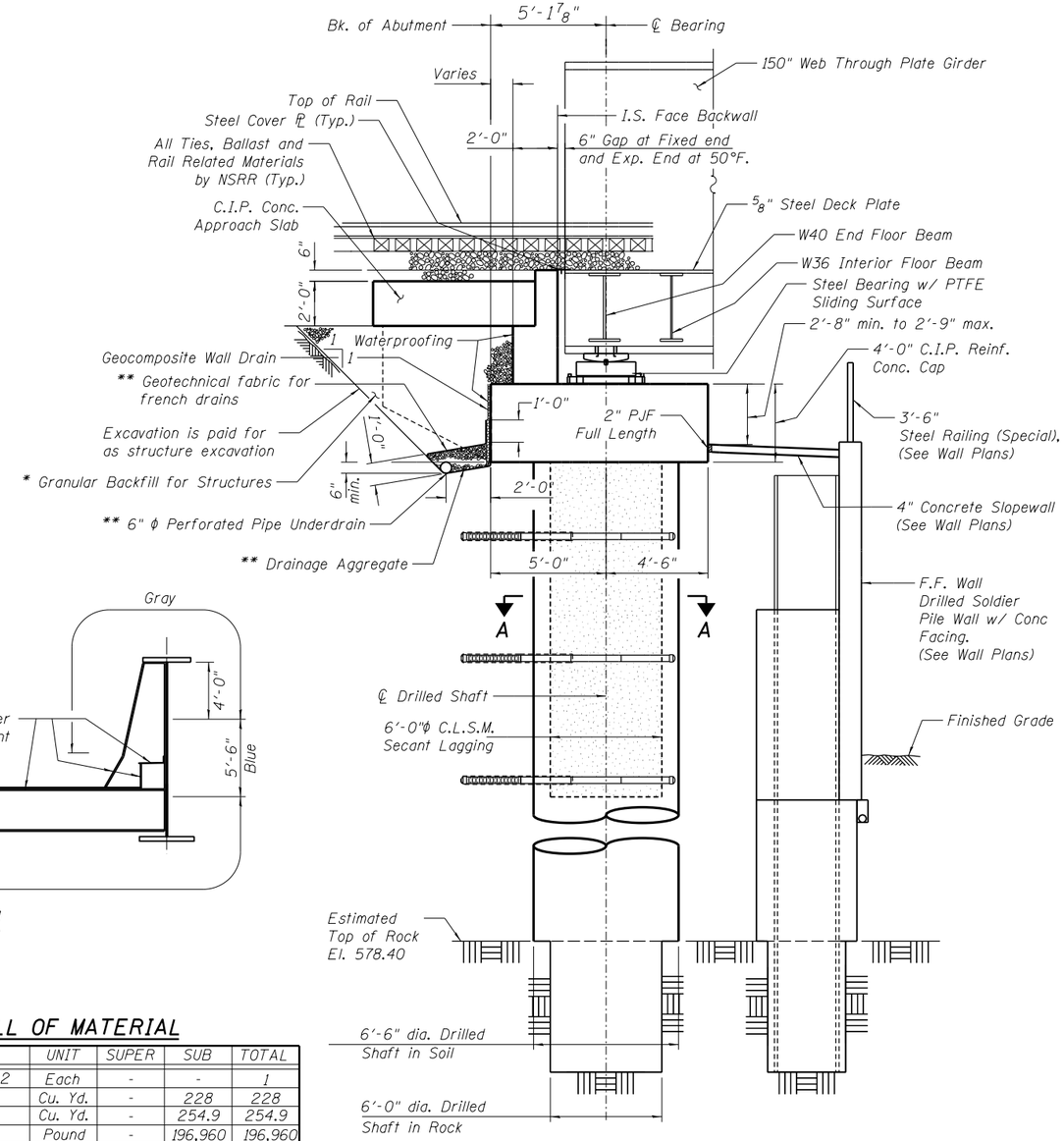
GENERAL NOTES

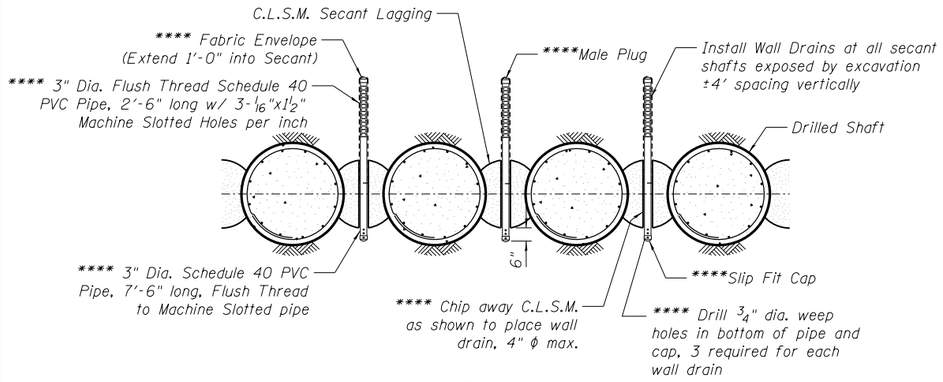
1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$in. ϕ, holes $\frac{15}{16}$in. ϕ, unless otherwise noted.
2. Calculated weight of Structural Steel, ASTM A709, Gr. 50 = 1,426,443 lbs.
   ASTM A36, Gr. 36 = 12,096 lbs.
   ATSM A500, Gr. 46 = 21,978 lbs.
3. All structural steel shall be ASTM A709 Grade 50 unless otherwise noted on the plans.
4. All substructure concrete shall have a compressive strength of 4,000 psi at 14 days.
5. No field welding is permitted except as specified in the contract documents.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
8. Concrete Sealer shall be applied to the following surfaces:
   Abutments - inside face of backwall, inside face of cheekwall and top of cap (except surfaces coated with surface color treatment).
   Concrete Surface Color Treatment shall be applied to the following surfaces:
   Abutments - concrete facing, wingwall and cheekwall surfaces coated with concrete surface color treatment.
9. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. All coatings on faying surfaces shall satisfy RCSC requirements for Class B slip coefficient. The color of the final finish coat for girder flanges, all interior steel surfaces, bottom of deck plate, and aesthetic truss shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for a 5.5 foot tall strip on the exterior face of girder web starting 4 foot down from the top flange shall be blue, Munsell No. 10B 3/6. See painting diagram for more information.
10. Waterproofing shall be applied to the backside of the abutment cap and backwall and backside of wingwalls for surfaces below ground. This shall be according to Article 503.18 of the Std. Spec. Cost included with Concrete Structures.
11. The existing stuctural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

INDEX OF SHEETS



PAINTING DIAGRAM





SECTION A-A

**** Included in the cost of Secant Lagging.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 2	Each	-	-	1
Structure Excavation	Cu. Yd.	-	228	228
Concrete Structures	Cu. Yd.	-	254.9	254.9
Reinforcement Bars	Pound	-	196,960	196,960
Reinforcement Bars, Epoxy Coated	Pound	-	37,830	37,830
Name Plates	Each	-	1	1
Drilled Shaft in Soil	Cu. Yd.	-	245.3	245.3
Drilled Shaft in Rock	Cu. Yd.	-	157.0	157.0
Secant Lagging	Cu. Ft.	-	2,283	2,283
Membrane Waterproofing (Special)	Sq. Ft.	5,957	-	5,957
Concrete Sealer	Sq. Ft.	-	1,620	1,620
Geocomposite Wall Drain	Sq. Yd.	-	44	44
Drainage System, No. 2	Each	1	-	1
Concrete Surface Color Treatment	Sq. Ft.	-	12	12
Granular Backfill for Structures	Cu. Yd.	-	163	163
Furnishing and Erecting Structural Steel, Bridge No. 2	L. Sum	1	-	1
Temporary Sheet Piling	Sq. Ft.	-	314	314
Pipe Underdrains for Structures, 6"	Foot	-	144	144

ABUTMENT SECTION

(At Rt. L's to Back of Abutment)

Notes:

West Abutment Section is Shown, East Similar.

* Granular Backfill for Structures Shall Be Placed and Compacted According to Section 502.10 of the Standard Specifications.

** Included in the cost of "Pipe Underdrains for Structures, 6". For additional drainage details see Railway Plans.

*** Omit Primer and Paint only on portion of Structural Steel to receive Membrane Waterproofing

NORFOLK SOUTHERN RAILWAY
S.N. 084-9961 BUILT 20__ BY
CITY OF SPRINGFIELD
SEC. (109)VB, (110)VB-5
STATION 52503+80.65
MILE POST DH-416.28
LOADING COOPER E-80

NAME PLATE

See Std. 515001

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FINAL

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	PLOT DATE = 5/20/2019	CHECKED - MJW	REVISED -

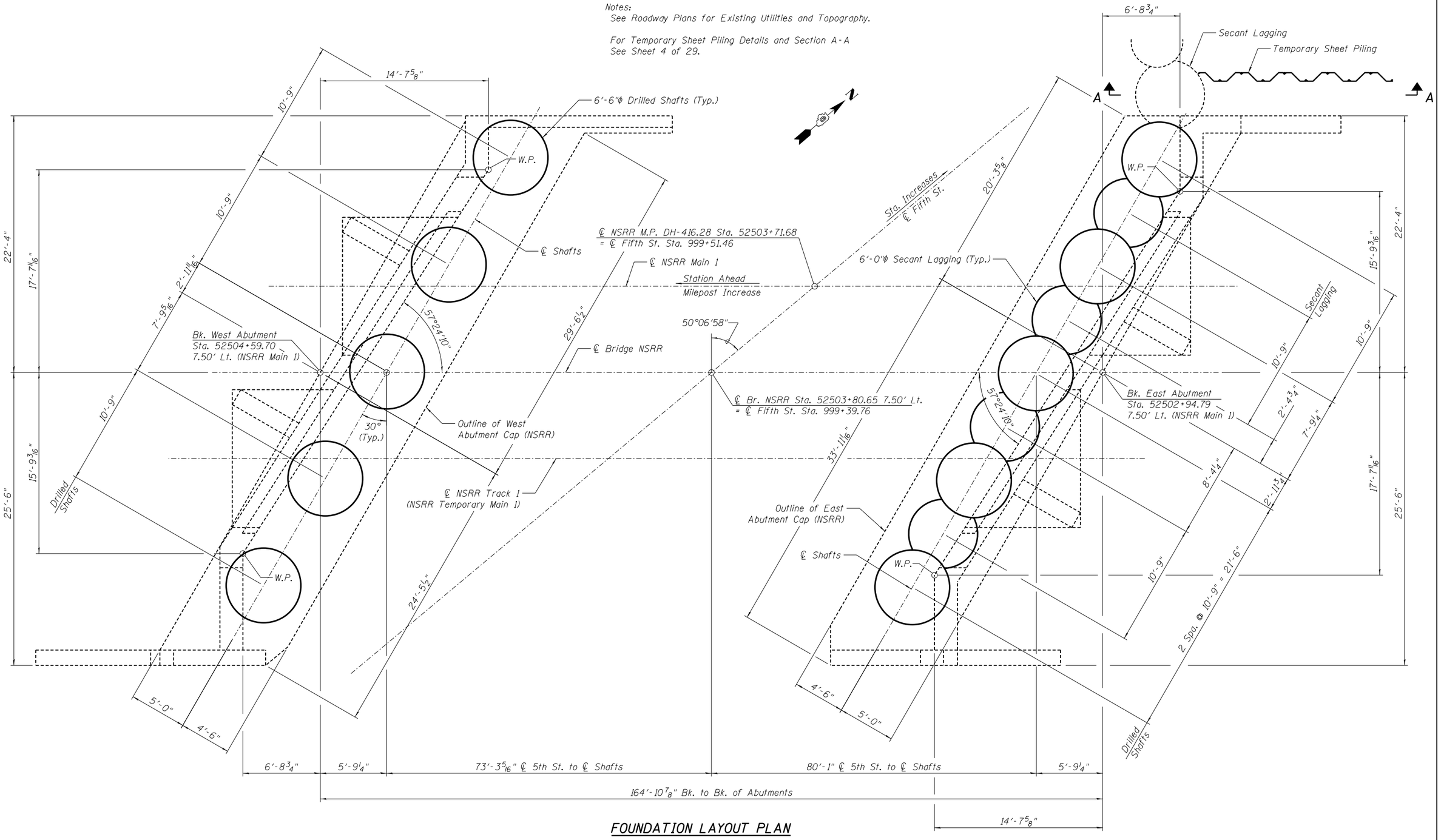
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE 084-9961 – 5TH ST NSRR
SHEET NO. 2 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	189
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

Notes:
See Roadway Plans for Existing Utilities and Topography.

For Temporary Sheet Piling Details and Section A-A
See Sheet 4 of 29.



FOUNDATION LAYOUT PLAN

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FINAL

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HANSON		CHECKED - TJH/TDP	REVISED -
	PLOT SCALE = 0:2.0000 '' / in.	DRAWN - RSJ	REVISED -
	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOUNDATION LAYOUT
STRUCTURE 084-9961 - 5TH ST NSRR
SHEET NO. 3 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	190
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

Temporary Sheet Piling Notes:

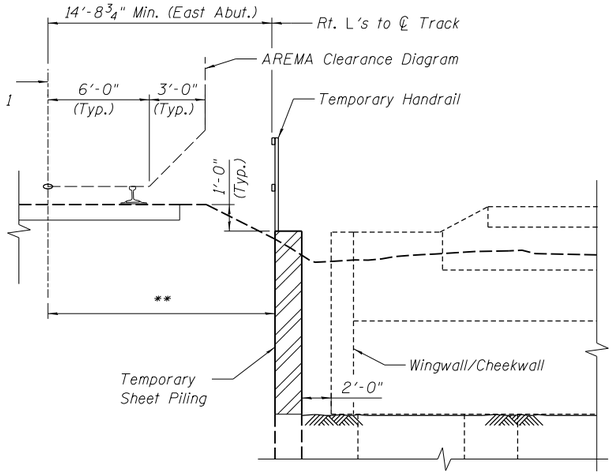
The Contractor is responsible for the design and installation of the Temporary handrail.

Temporary handrail shall meet AREMA, FRA, OSHA and NSRR requirements and cost shall be included with Temporary Sheet Piling.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

Retaining wall drilled shafts not shown for clarity.

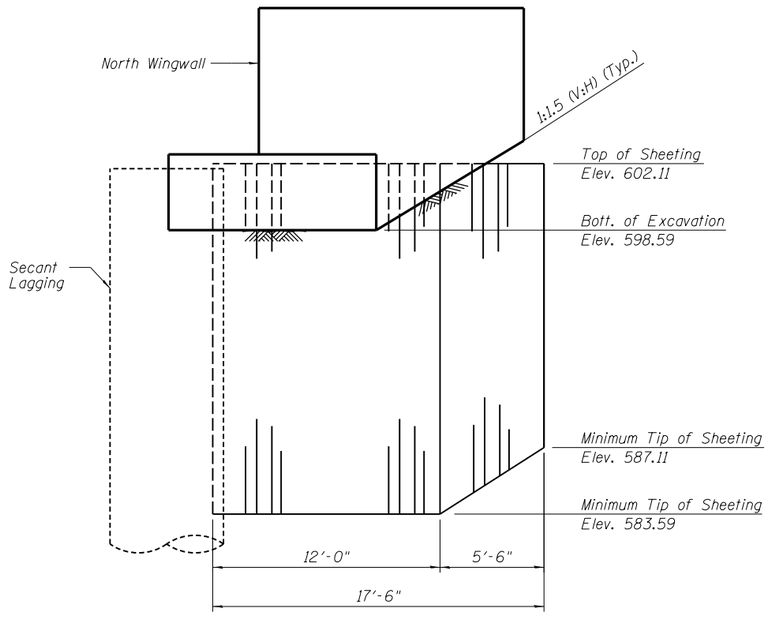
If the sheet piling extends to the edge of the secant lagging, the Contractor shall fill the void between the end of the sheet piling and the secant lagging to ensure there is no loss in retained material. The detail shall be reviewed and accepted by the Engineer and included in the cost of Temporary Sheet Piling.



**Sheet Piling and Temporary Handrail shall not be closer than 10'-0" from centerline of track.

TEMPORARY HANDRAIL DETAIL

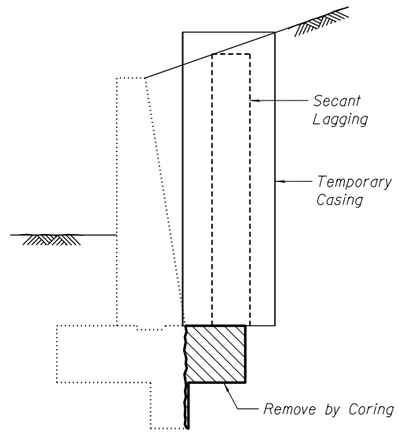
(Looking East)



Minimum Section Modulus = 31.0 in³/ft
Minimum Moment of Inertia = 185.00 in⁴/ft

TEMPORARY SHEET PILING - SECTION A-A

(Looking North)



SECTION B-B

Existing Structure Removal Notes:

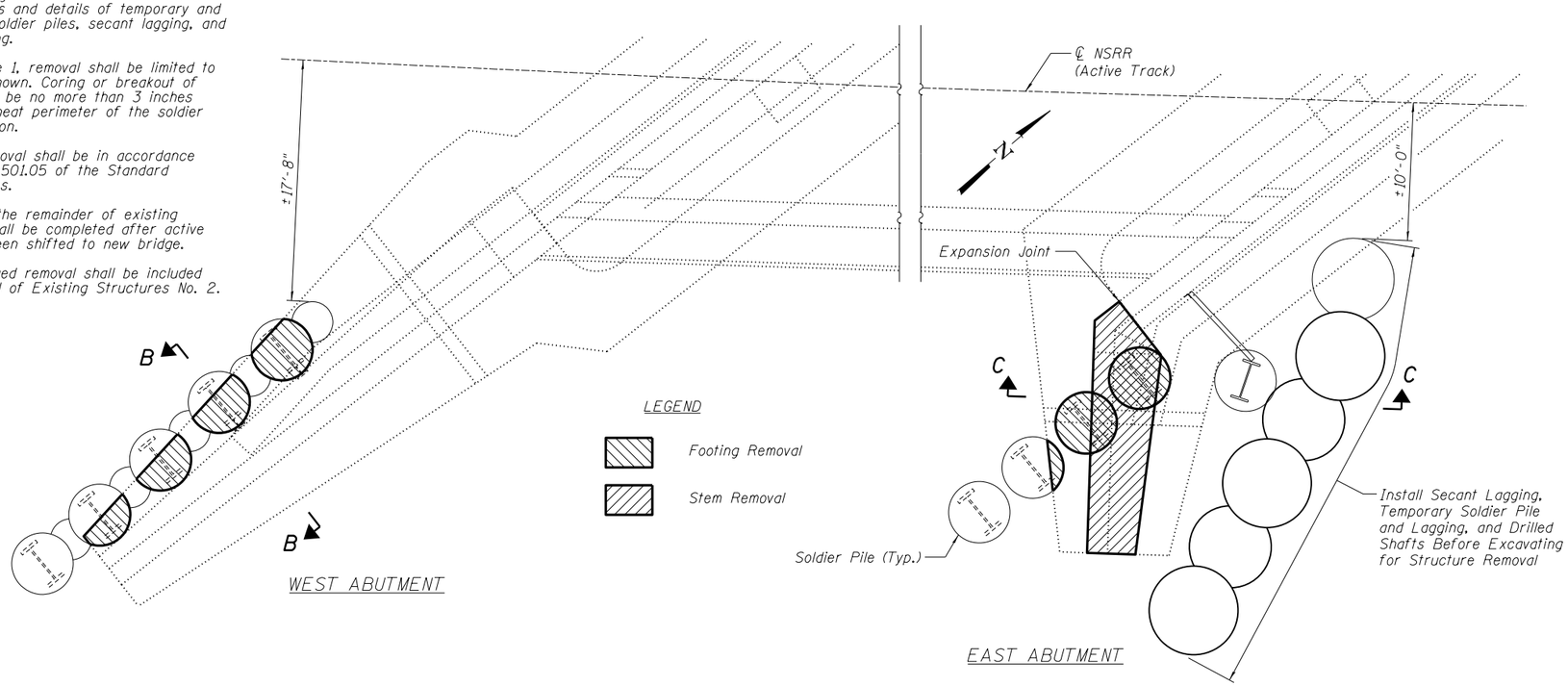
See Retaining Wall Plans for construction staging notes and details of temporary and permanent soldier piles, secant lagging, and timber lagging.

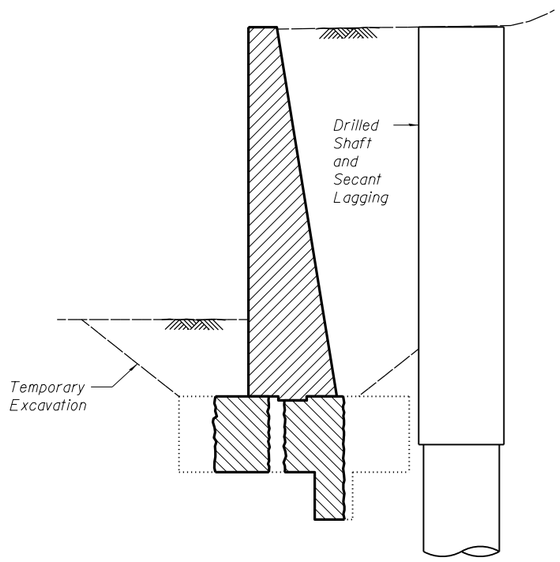
During Stage 1, removal shall be limited to the areas shown. Coring or breakout of footing shall be no more than 3 inches beyond the neat perimeter of the soldier pile excavation.

Stage 1 Removal shall be in accordance with Article 501.05 of the Standard Specifications.

Removal of the remainder of existing structure shall be completed after active track has been shifted to new bridge.

Cost of staged removal shall be included with Removal of Existing Structures No. 2.





SECTION C-C

STAGE 1 REMOVAL OF EXISTING STRUCTURES

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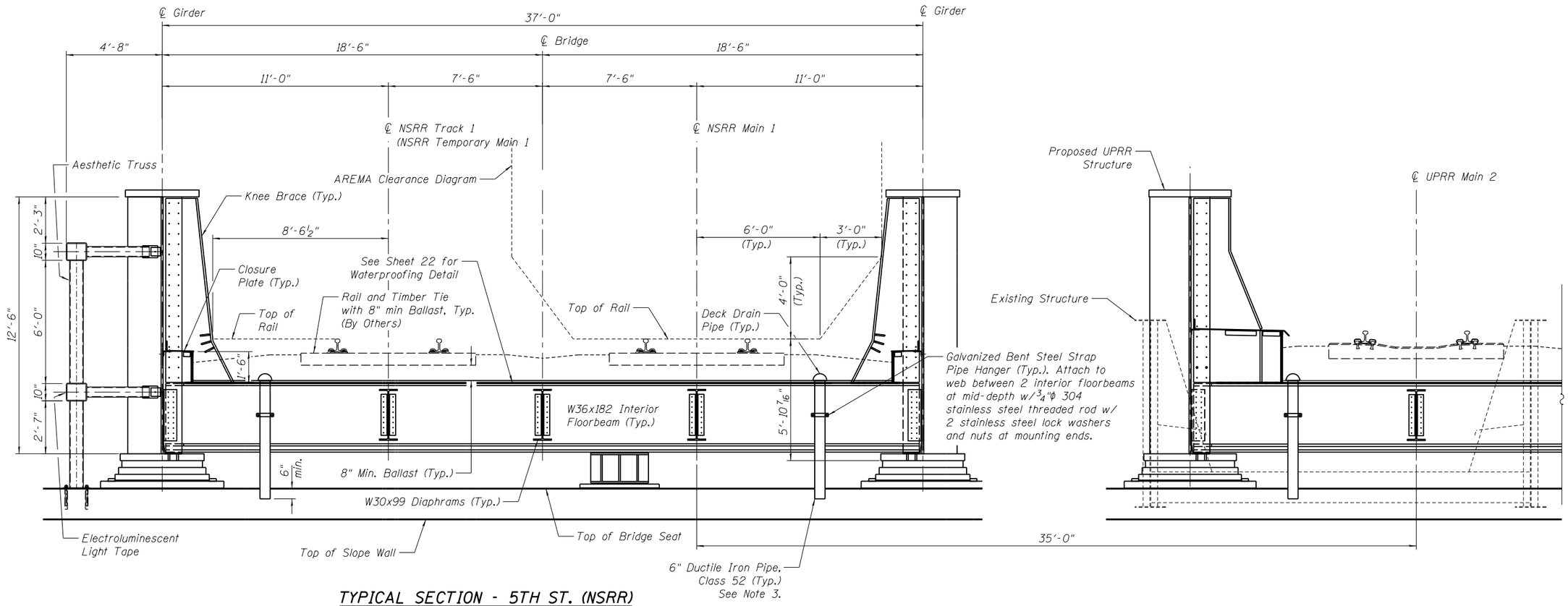
STAGE CONSTRUCTION DETAILS
STRUCTURE 084-9961 - 5TH ST NSRR

SHEET NO. 4 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	191
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



TYPICAL SECTION - 5TH ST. (NSRR)

(Looking West)

Notes:
1. Retaining Wall and Steel Railing not shown for clarity.
2. Drain pipe on west end only near low end of bridge deck.
3. With the ductile iron pipe fitted to the bottom of the deck drain bottom pan downspout, drill 4 holes through ductile iron pipe and downspout. Holes shall be aligned with the 4 quadrants of the pipe. Attach ductile iron pipe to downspout with 4 stainless steel carriage bolts. Rounded heads of carriage bolts shall be oriented towards the center of the pipe.
4. Cost of deck drain pipe, bottom pan, downspout, brackets and other hardware shall be included in the cost of Drainage System.

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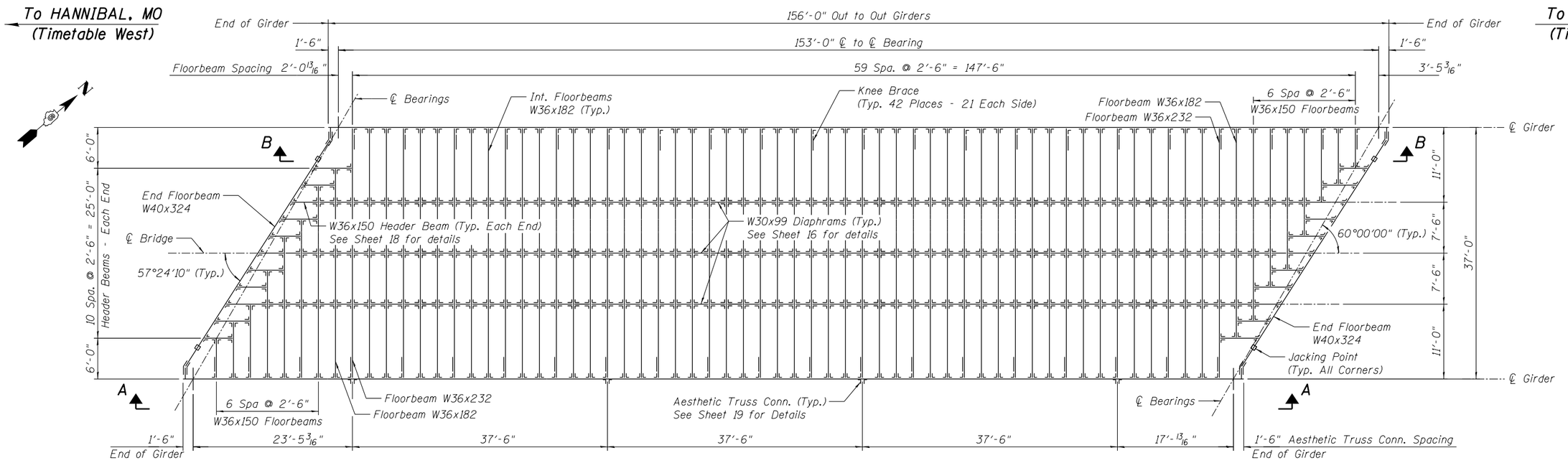
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
STRUCTURE 084-9961 - 5TH ST NSRR
SHEET NO. 5 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	192
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		



FRAMING PLAN

See Sheet 7 & 8 for View A-A
See Sheet 9 & 10 for Section B-B

STEEL NOTES

GENERAL: All materials, fabrication, and erection shall be in accordance with chapter 15 of the current AREMA Manual for Railway Engineering.

Dead Load: (assumed)

Rail	400
Ballast (Incl. Tie)	4,690
Waterproofing	200
Future Ballast	2,550
Steel	9,360
Total	17,200 lbs. per lin ft. of track

MATERIAL: Zone 2 Conditions control for Charpy V-Notch testing.

Fracture Critical Members (FCM) shall be Charpy V-Notch tested, according to AREMA Table 15-9-3, Zone 2, P frequency in accordance with ASTM A673.

Impact Test Required (ITR) members shall be Charpy V-Notch (CVN) tested, according to AREMA Table 15-9-2, Zone 2, H frequency in accordance with ASTM A673.

FABRICATION: The top surface of beams shall be adjusted to form a straight line at any transverse section throughout the span. Tolerance is plus or minus 1/8".

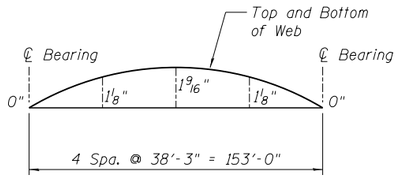
SPLICE NOTES:
1. No two parts or members shall be spliced by shop welding at the same location, or within the length of a bolted field splice.
2. Web splices by shop welding shall be located a minimum of 36" away from any flange splice.
3. Splices of the web or flanges shall not be permitted within the central 30'-0" of the girder span length. This requirement may be waived only by the approval of the Engineer.

TOP OF TIE	TO MASONRY	TO CLEARANCE
Tie	7"	7"
Ballast	8"	8"
Waterproofing	1 1/8"	1 1/8"
Ballast pan	5/8"	5/8"
Floorbeam & Flange	3'-9"	3'-9"
Flange splice plate		2 1/4"
Nut & bolt shank		3/4"
Bearing	1'-4 3/8"	
Total	6'-6 1/8"	5'-4 3/4"

MOMENT & SHEAR TABLE FOR STEEL THRU PLATE GIRDER

DESCRIPTION	MOMENT	SHEAR
Dead Load	25,165 ft. -k	658 k
Live Load	30,158 ft. -k	865 k
Impact	7,134 ft. -k	205 k
Total	62,457 ft. -k	1,728 k
Section	See Sheet 12 of 29	
Steel	A.S.T.M. A709, Gr. 50	
Net I	2,288,242 in	
Net S (Bot.)	28,257 in	
fst (Bot.)	26.5 ksi	
Gross I	2,492,406 in	
Gross S (Top)	30,232 in	
fsc (Top.)	24.8 ksi	

I- Moment of Inertia of the Section
S- Section Modulus
fs- Max. Unfactored Stress in the Section Due to D.L + L.L. + Impact



CAMBER DIAGRAM

Camber Calculated for Dead Load Only

MOMENT & SHEAR TABLE FOR STEEL FLOORBEAMS

DESCRIPTION	MOMENT	SHEAR	MOMENT ✳	SHEAR ✳
Dead Load	151 ft. -k	15.7 k	36.18 ft. -k	658 k
Live Load	225 ft. -k	20.3 k		
Impact	666 ft. -k	60.1 k		
Total	1042 ft. -k	96.0 k	36.18 ft. -k	658 k
Section	W36x182		W40x324	
Steel	A.S.T.M. A709, Gr. 50		A.S.T.M. A709, Gr. 50	
Net I	11,026 in^4		22,636 in^4	
Net S (Bot.)	607 in^3		1,126 in^3	
fst (Bot.)	20.6 ksi		38.6 ksi	

✳ Jacking Conditions Control 50% Allowable Stress Increase is Permitted

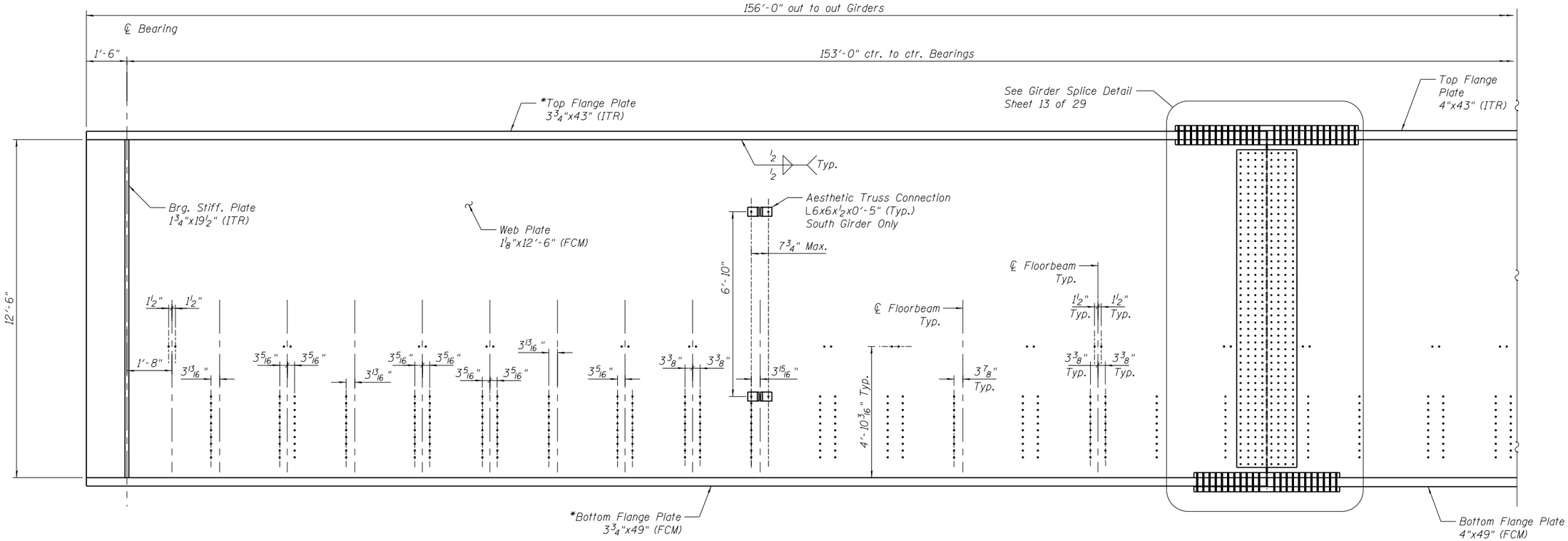
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE 084-9961 - 5TH ST NSRR
SHEET NO. 6 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	193
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

To HANNIBAL, MO
(Timetable West)

To DECATUR, IL
(Timetable East)



VIEW A-A - OUTSIDE ELEVATION OF GIRDER

Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

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DEPARTMENT OF TRANSPORTATION

OUTSIDE ELEVATION OF GIRDER – SHEET 1 OF 2
STRUCTURE 084-9961 – 5TH ST NSRR
SHEET NO. 7 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	194
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•666 & 666 ALT.	ILLINOIS	FED. AID PROJECT		

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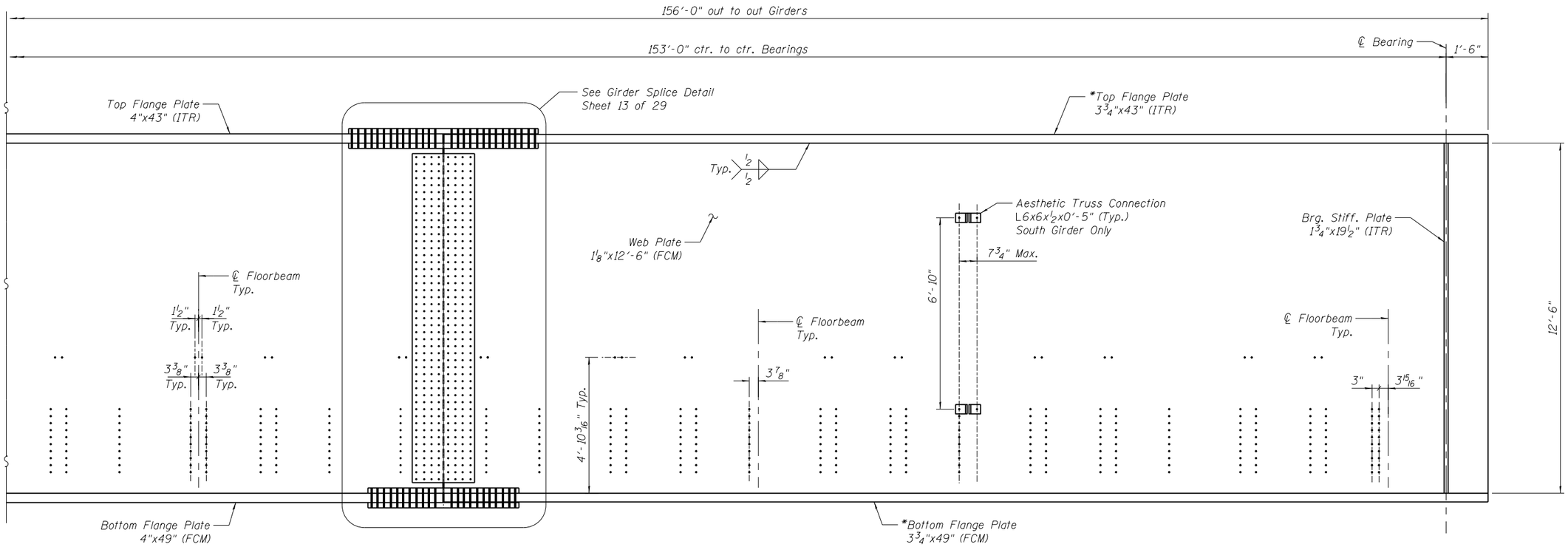
To DECATUR, IL
(Timetable East)



Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required

VIEW A-A - OUTSIDE ELEVATION OF GIRDER

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

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DEPARTMENT OF TRANSPORTATION

OUTSIDE ELEVATION OF GIRDER – SHEET 2 OF 2
STRUCTURE 084-9961 – 5TH ST NSRR
SHEET NO. 8 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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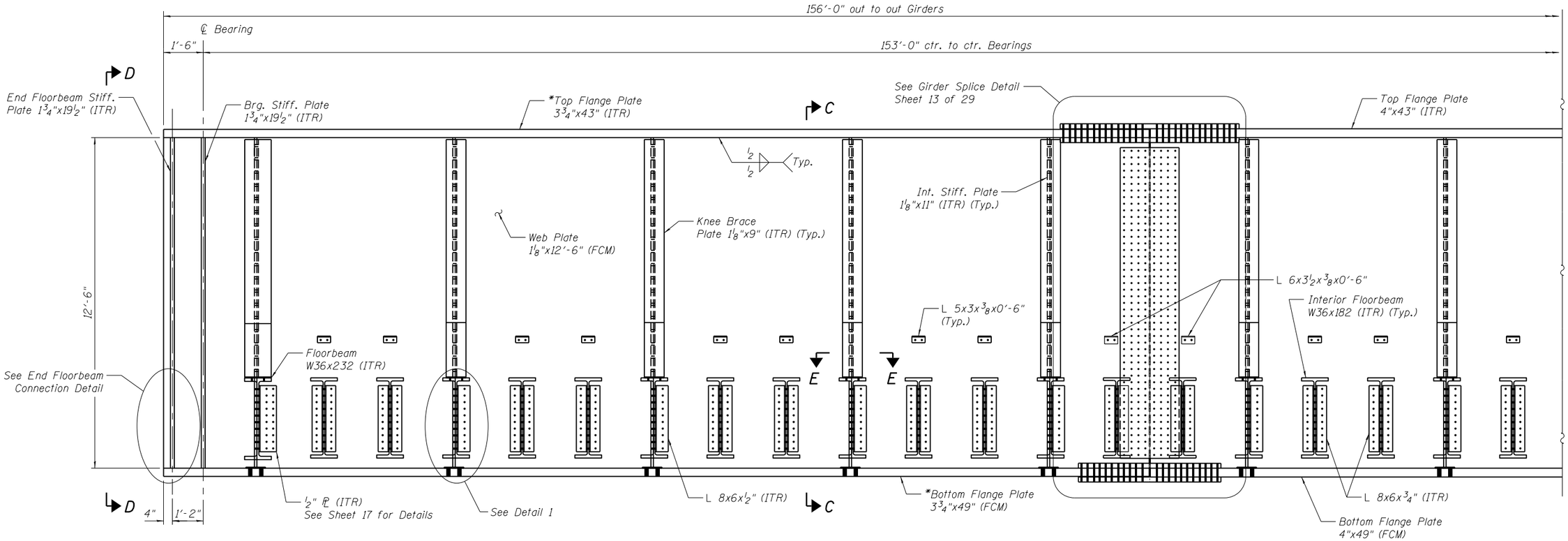
(Timetable East)

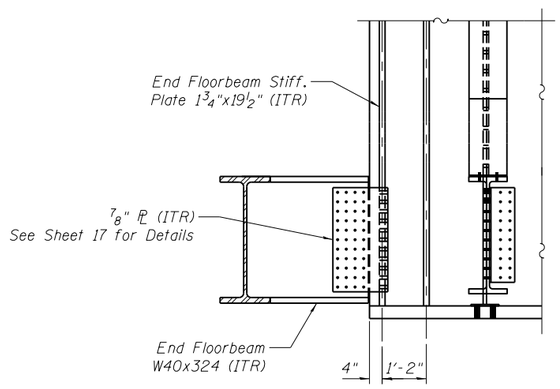


SECTION B-B - INSIDE ELEVATION OF GIRDER

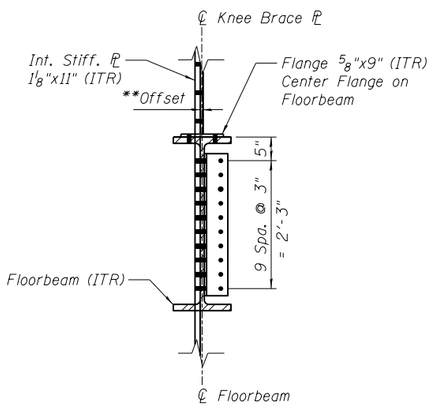
See Sheet 11 of 29 for Section C-C & D-D.

Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

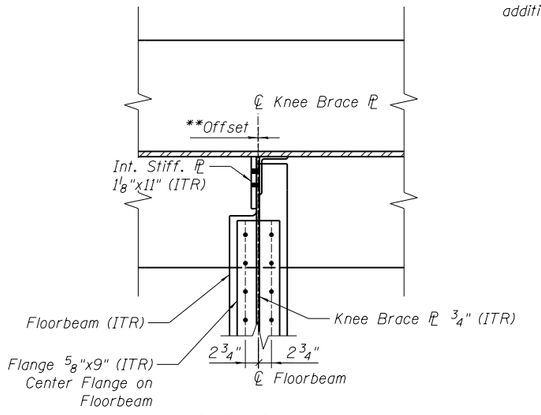


END FLOORBEAM CONNECTION



DETAIL 1

**See Table for Offset Dimension



SECTION E-E

**See Table for Offset Dimension

KNEE BRACE PLATE OFFSETS

FLOORBEAM SHAPE	OFFSET
W36x150	-1/16"
W36x182	0"
W36x232	1/16"

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INSIDE ELEVATION OF GIRDER – SHEET 1 OF 2
STRUCTURE 084-9961 – 5TH ST NSRR
SHEET NO. 9 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	196
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

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(Timetable West)

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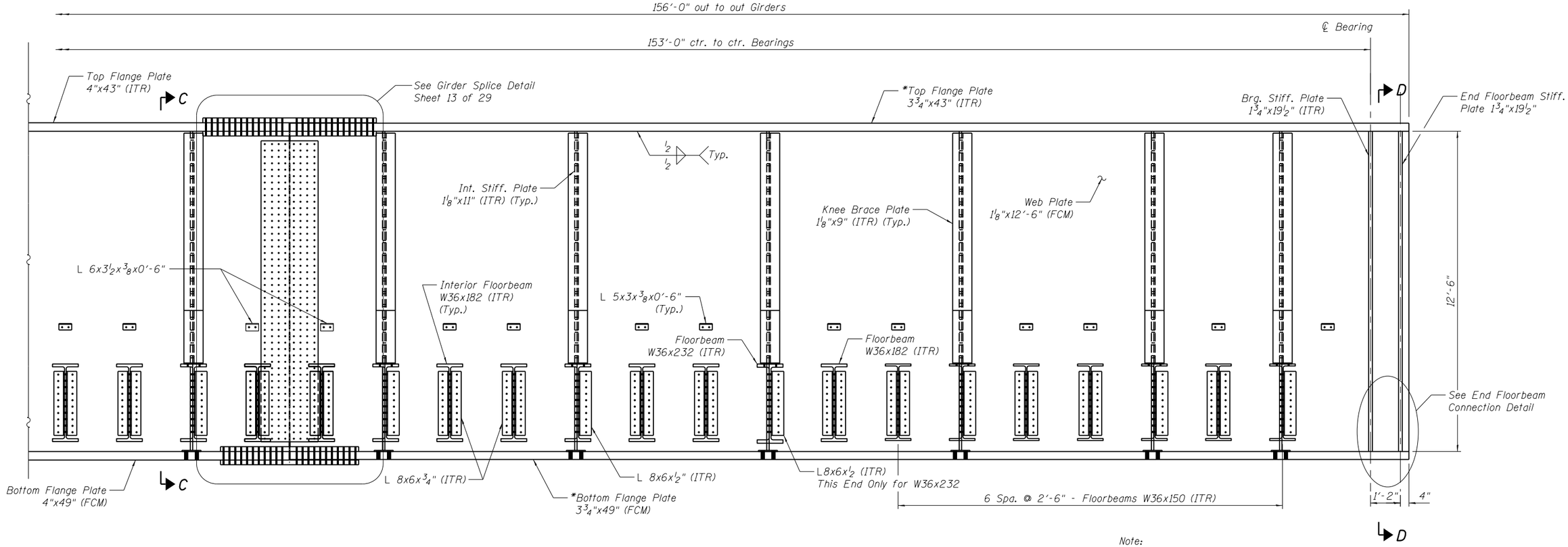
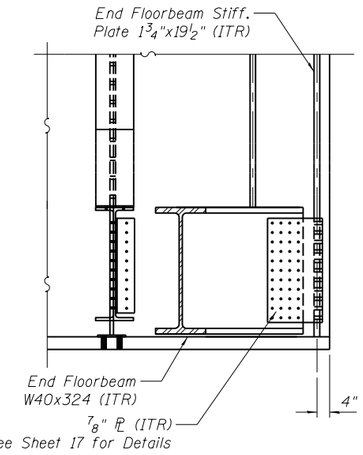
(Timetable East)



Note:
1. FCM - Fracture Critical Member
2. ITR- Impact Test Required

SECTION B-B - INSIDE ELEVATION OF GIRDER

See Sheet 11 of 29 for Section C-C & D-D.



See Sheet 17 for Details

END FLOORBEAM CONNECTION DETAIL

* Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.

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INSIDE ELEVATION OF GIRDER – SHEET 2 OF 2
STRUCTURE 084-9961 – 5TH ST NSRR
SHEET NO. 10 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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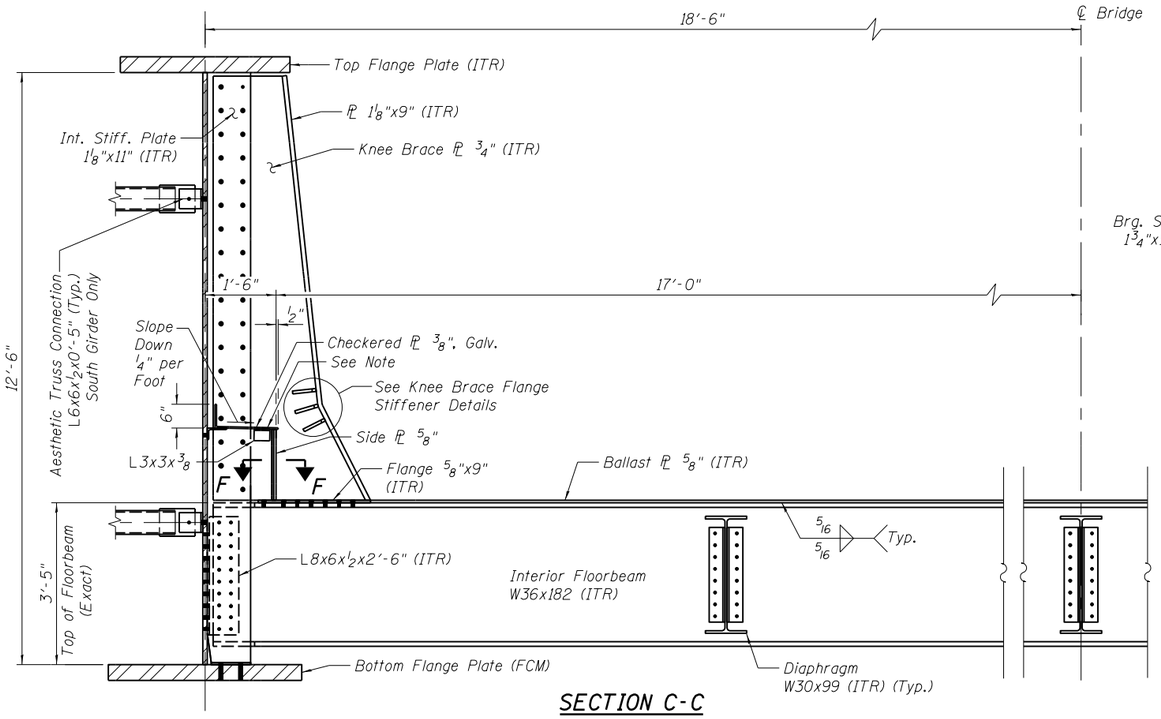
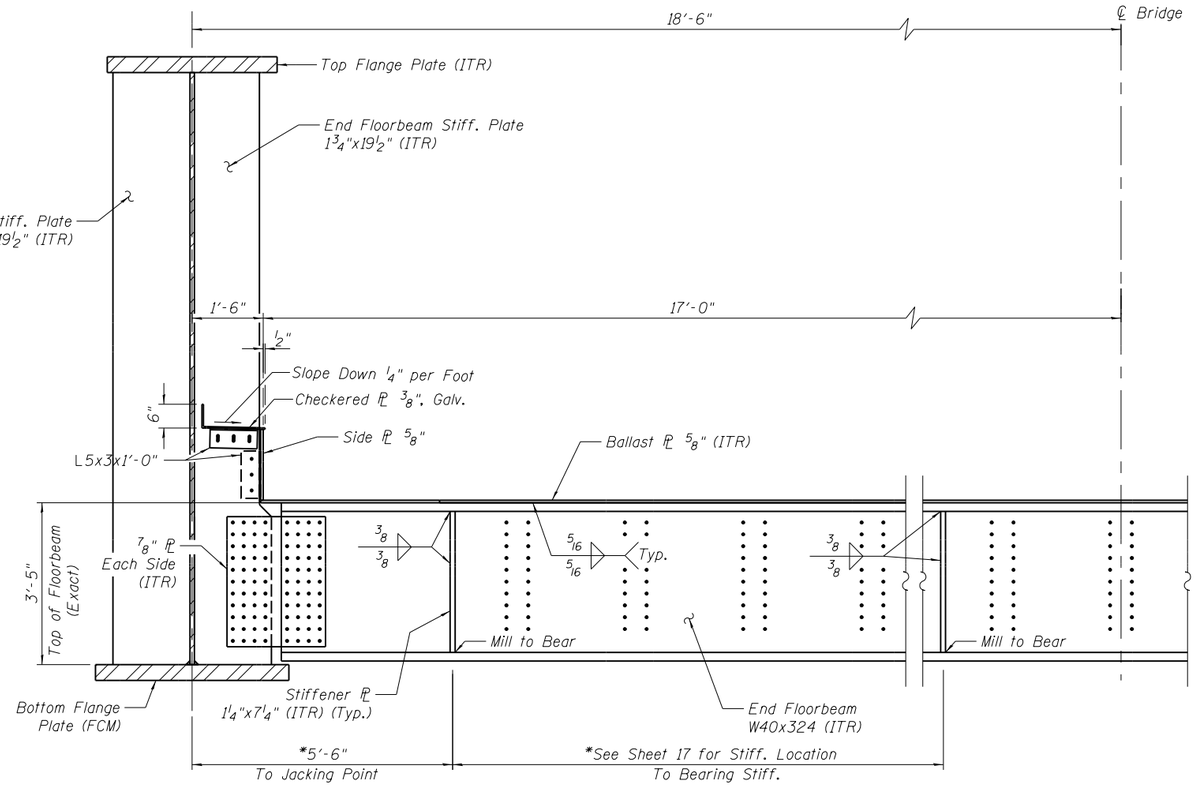
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			



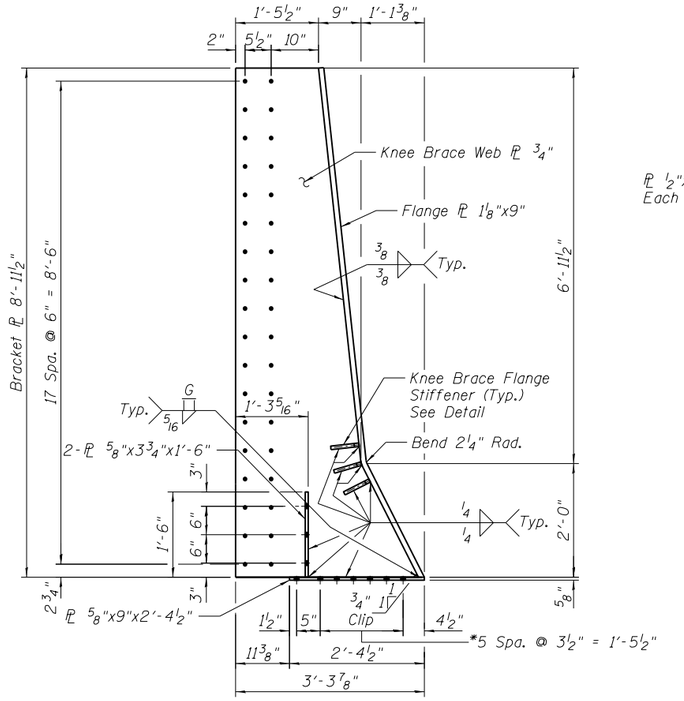
SECTION C-C



SECTION D-D

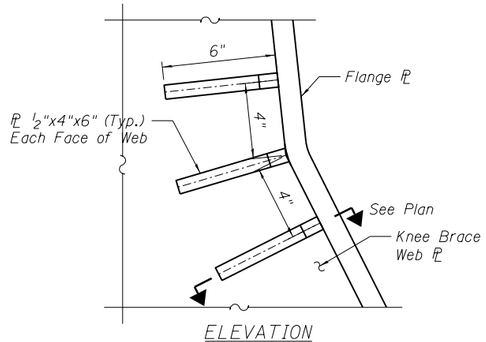
*(Along End Floorbeam ℄)

Note:
For Location of L3x3x3/8, Welding and Bolted Connection to Closure Plate see Plan View of Closure Plate at Knee Brace on Sheet 15.

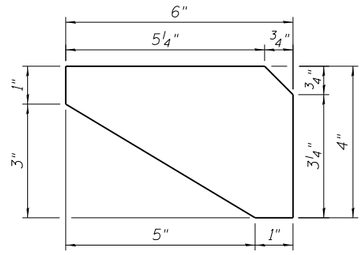


KNEE BRACE

*See Detail 1 on Sheet 9 for Hole Locations.

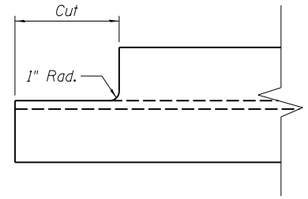


ELEVATION

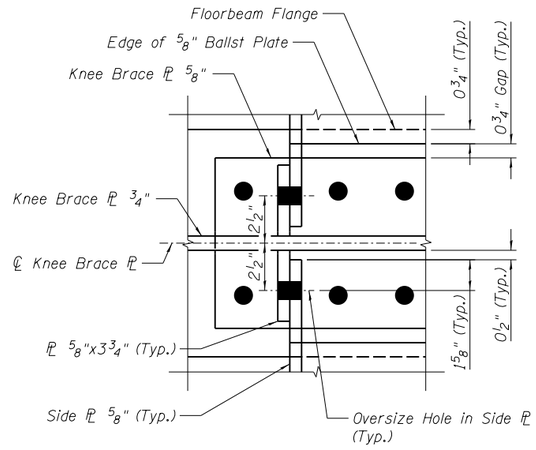


PLAN

KNEE BRACE FLANGE STIFFENER

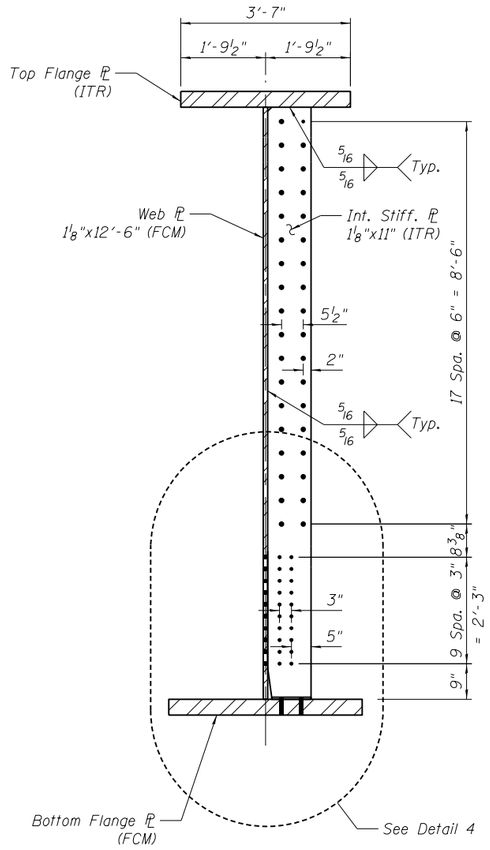


FLOORBEAM COPE AT INTERIOR STIFFENER



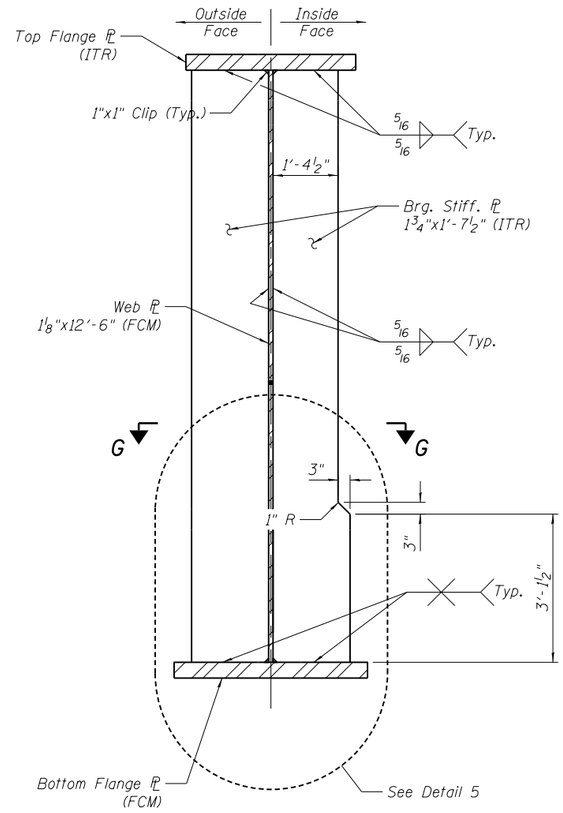
SECTION F-F

Weld Ballast Plate to Floorbeam as shown in Section I-I on Sheet 15

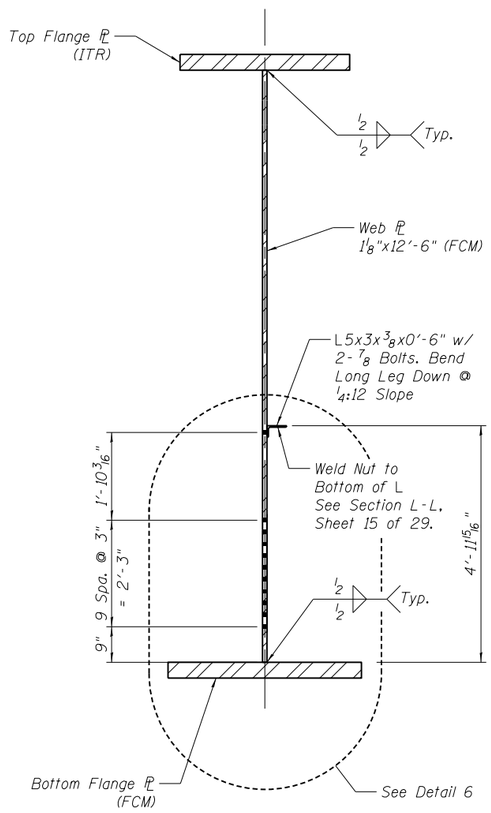


TYPICAL SECTION AT INT. STIFFENER AND KNEE BRACE

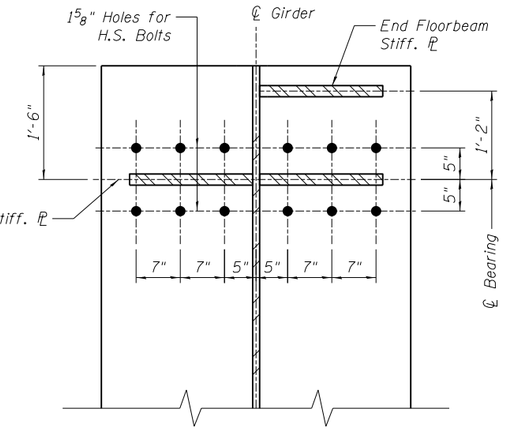
(Knee Brace Omitted for Clarity)



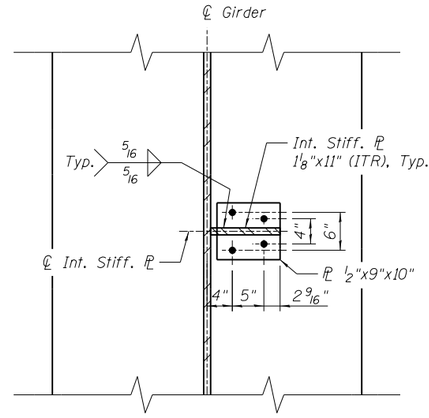
TYPICAL SECTION AT BEARING STIFFENER



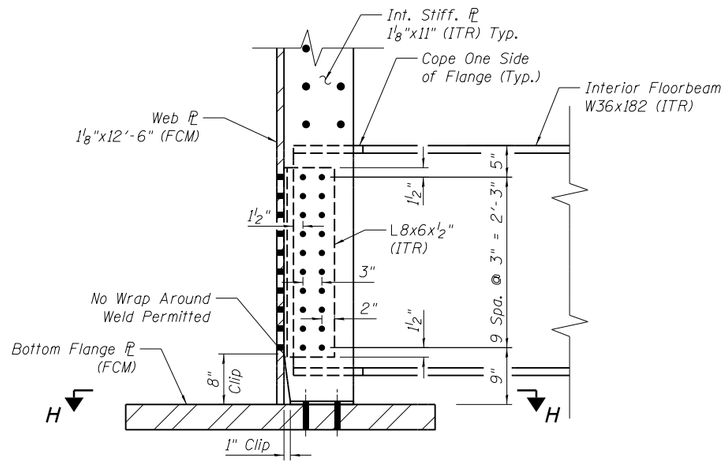
TYPICAL SECTION AT CHECKERED PLATE SUPPORT



SECTION G-G

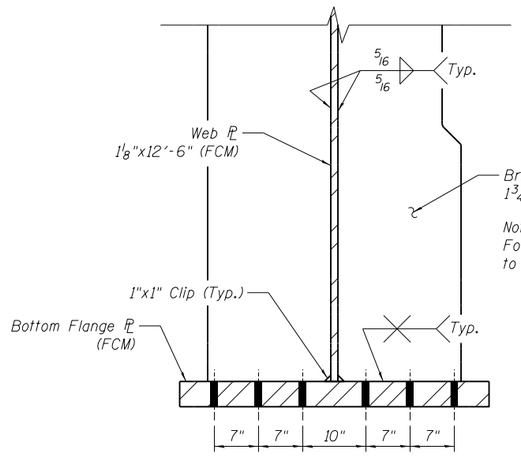


SECTION H-H



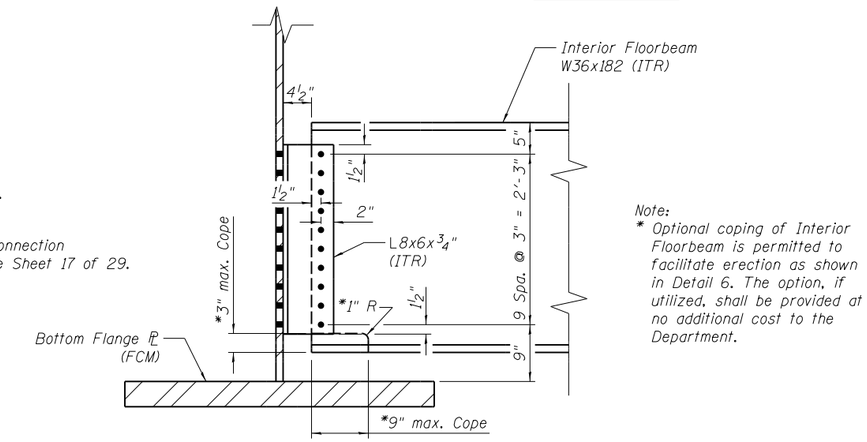
DETAIL 4

Typical for Interior Stiffener Unless Otherwise Noted
(Knee Brace Omitted for Clarity)



DETAIL 5

Typical at Bearing Stiffener



Note:
* Optional coping of Interior Floorbeam is permitted to facilitate erection as shown in Detail 6. The option, if utilized, shall be provided at no additional cost to the Department.

DETAIL 6

Typical Floorbeam Connection Between Interior Stiffeners

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	PLOT DATE = 4/11/2019	CHECKED - MJW	REVISED -

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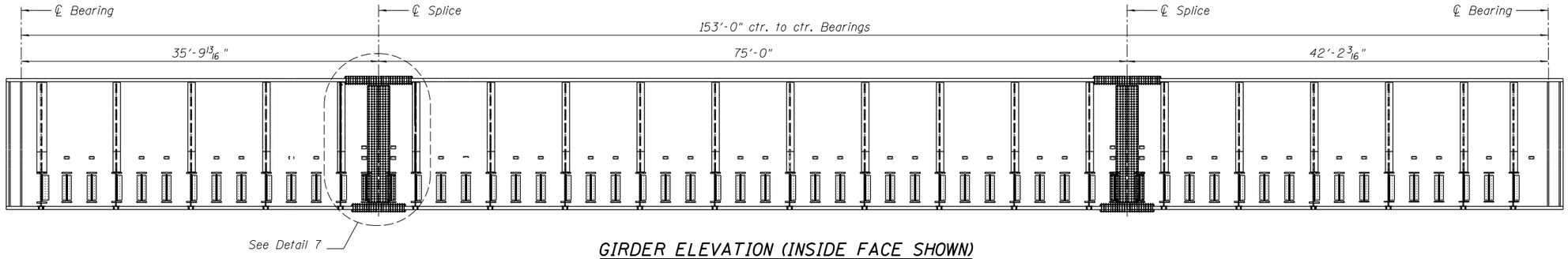
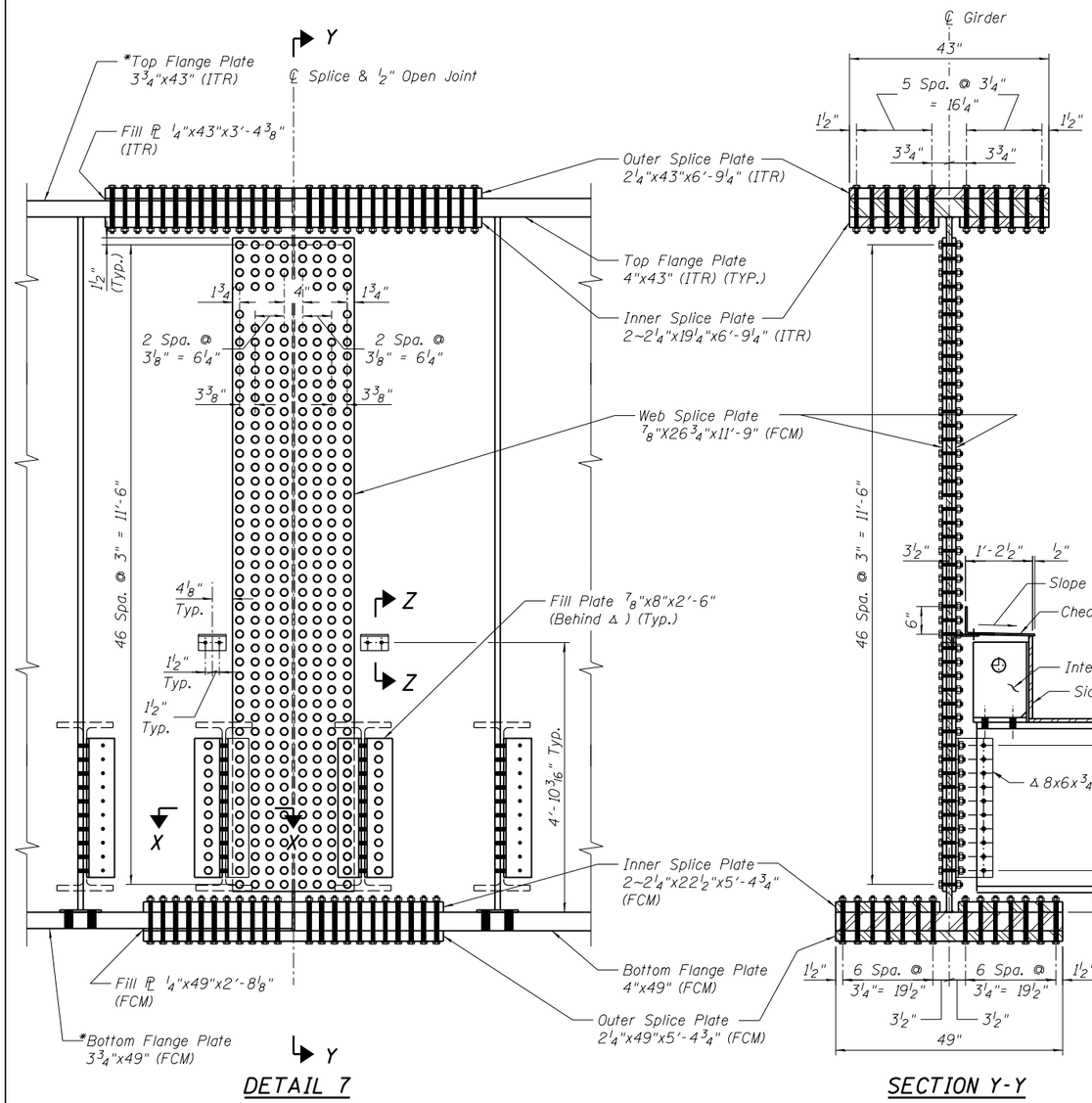
GIRDER SECTIONS & DETAILS
STRUCTURE 084-9961 - 5TH ST NSRR
SHEET NO. 12 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(109) VB,(110) VB-5	SANGAMON	382	199
		CONTRACT NO. 93733		
•666 & 666 ALT.	ILLINOIS FED. AID PROJECT			

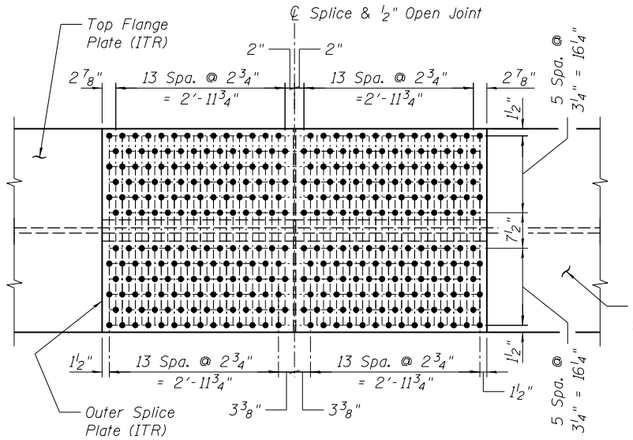


GIRDER ELEVATION (INSIDE FACE SHOWN)



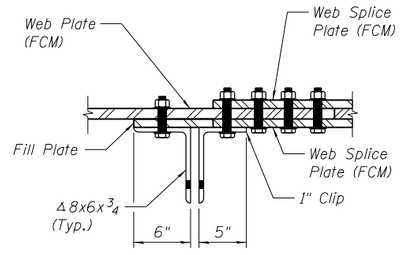
DETAIL 7

SECTION Y-Y

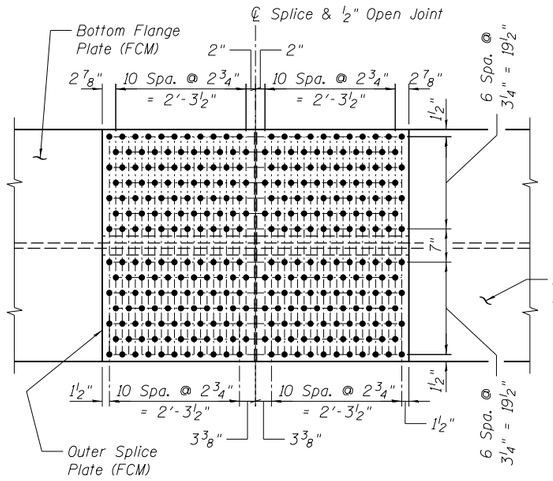


TOP FLANGE PLAN

(Looking Down)

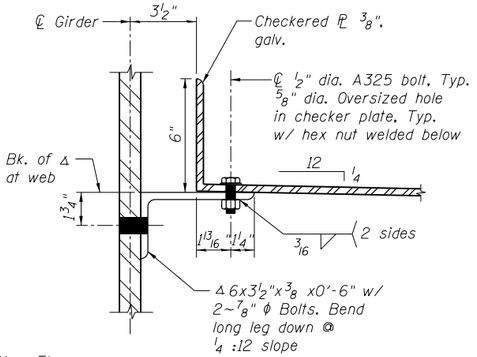


SECTION X-X



BOTTOM FLANGE PLAN

(Looking Up)



SECTION Z-Z

* *Alternate larger 4" flange thickness is permitted throughout to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. Calculated girder stresses are based on heavier section. The alternate, if utilized, shall be provided at no additional cost to the Department.*