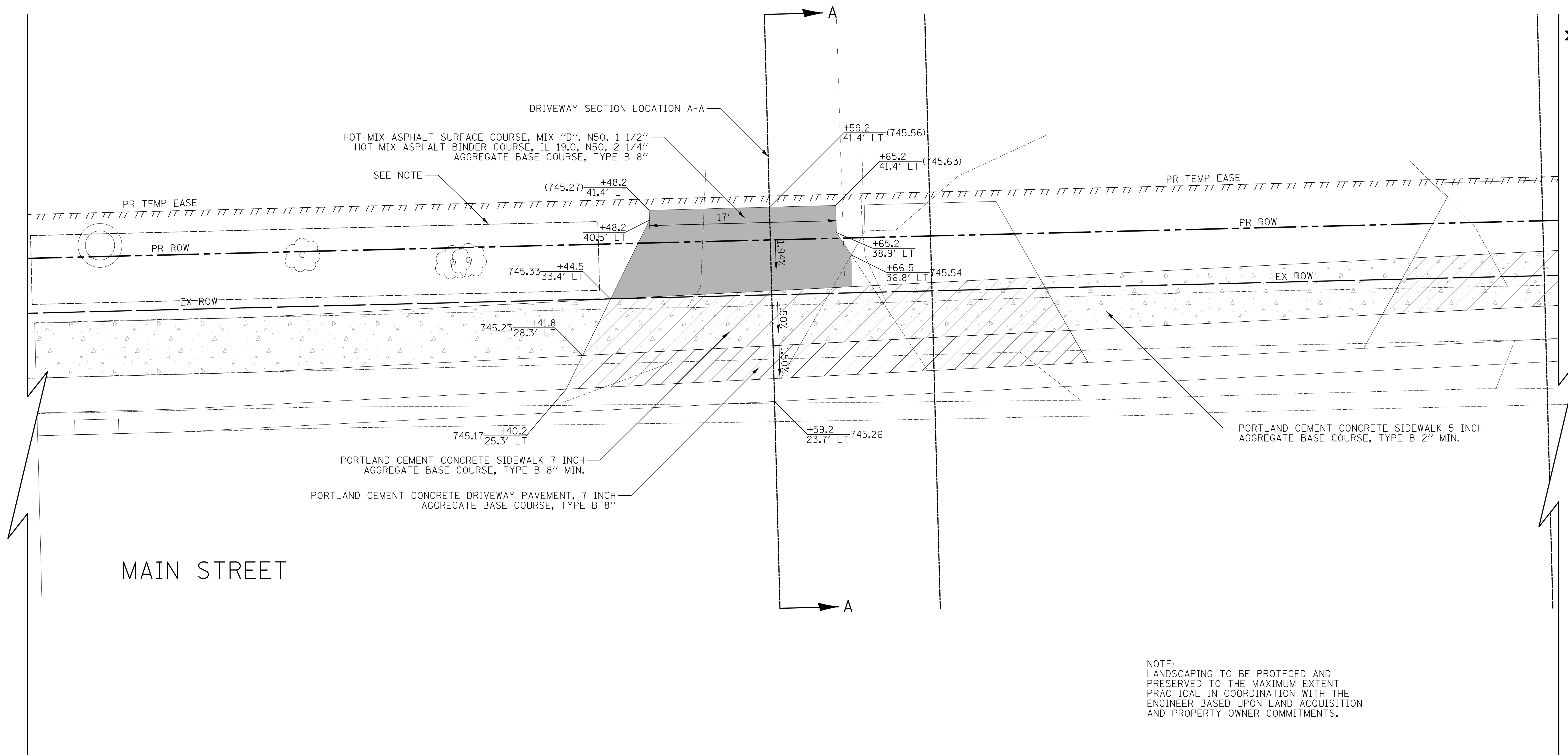


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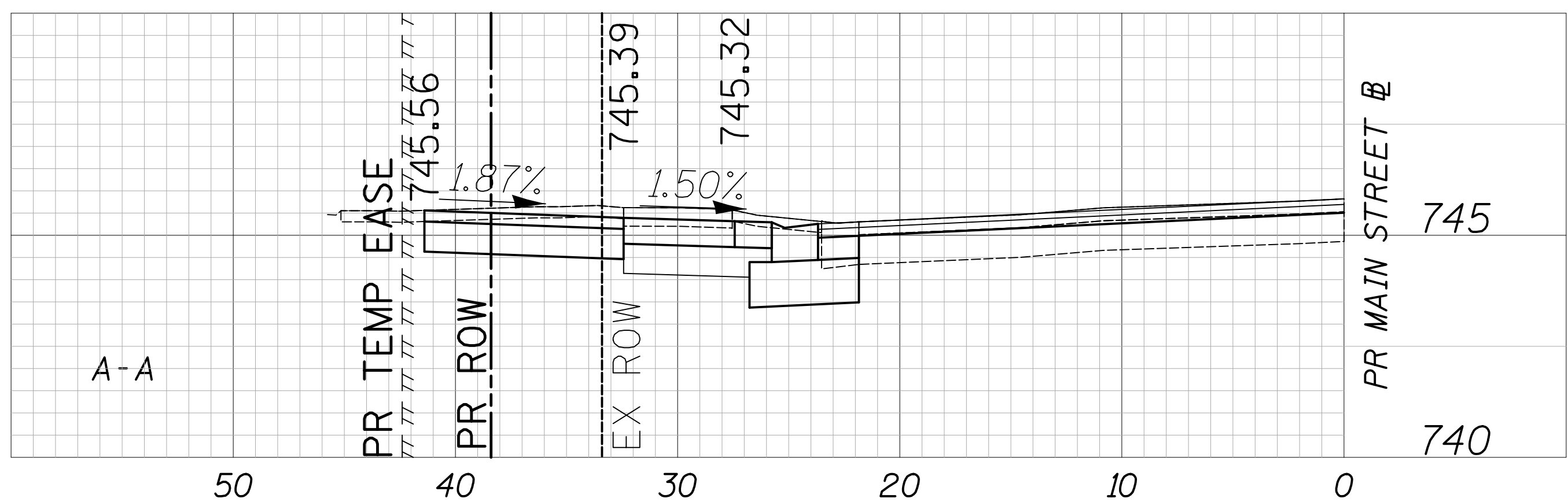


5522 MAIN STREET
PIN: 0917101031

NOTE:
LANDSCAPING TO BE PROTECTED AND PRESERVED TO THE MAXIMUM EXTENT PRACTICAL IN COORDINATION WITH THE ENGINEER BASED UPON LAND ACQUISITION AND PROPERTY OWNER COMMITMENTS.

LEGEND

	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
	AGGREGATE BASE COURSE, TYPE B 8"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"



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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



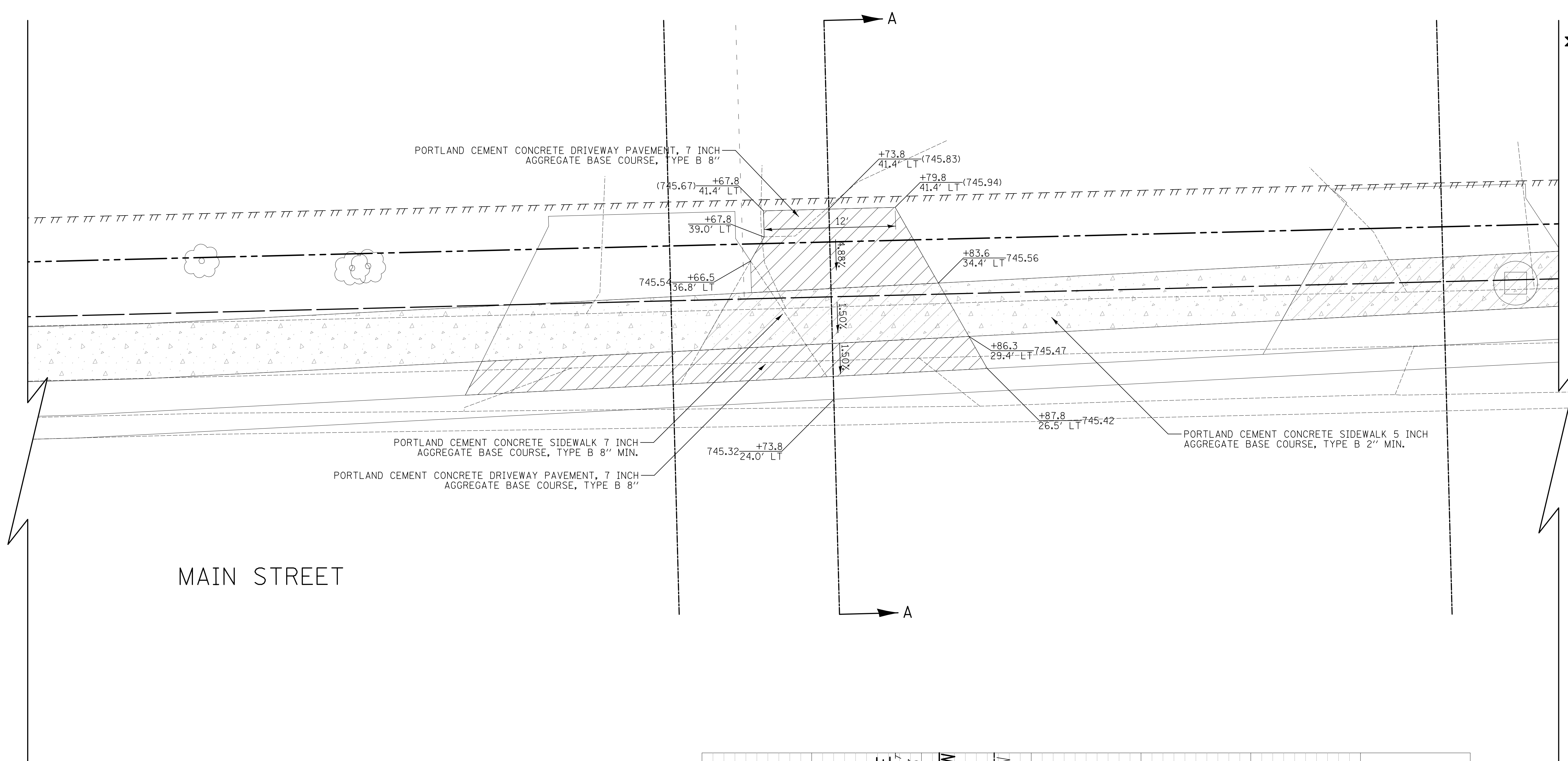
DRIVEWAY DETAILS
MAIN STREET - STA. 196 + 59.2

SHEET NO. 51 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	201
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

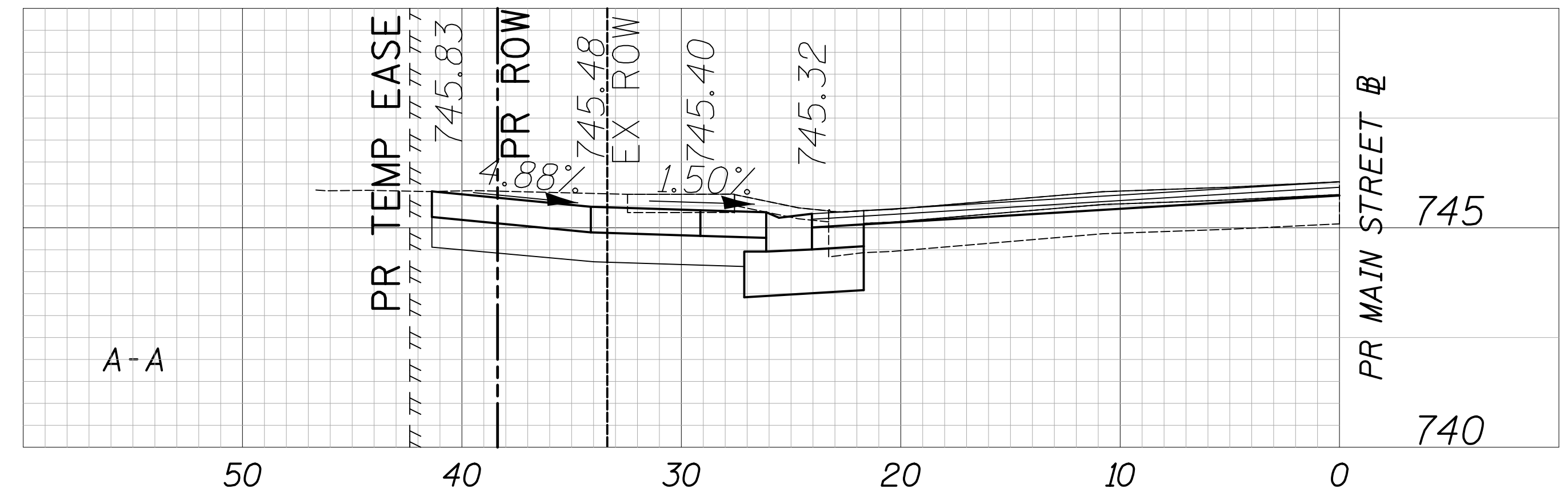
DATE	
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ADD. FILE NAME	

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NO. OF WAY CHECKED	
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ADD. FILE NAME	



5512 MAIN STREET
PIN: 0917101030

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4" AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



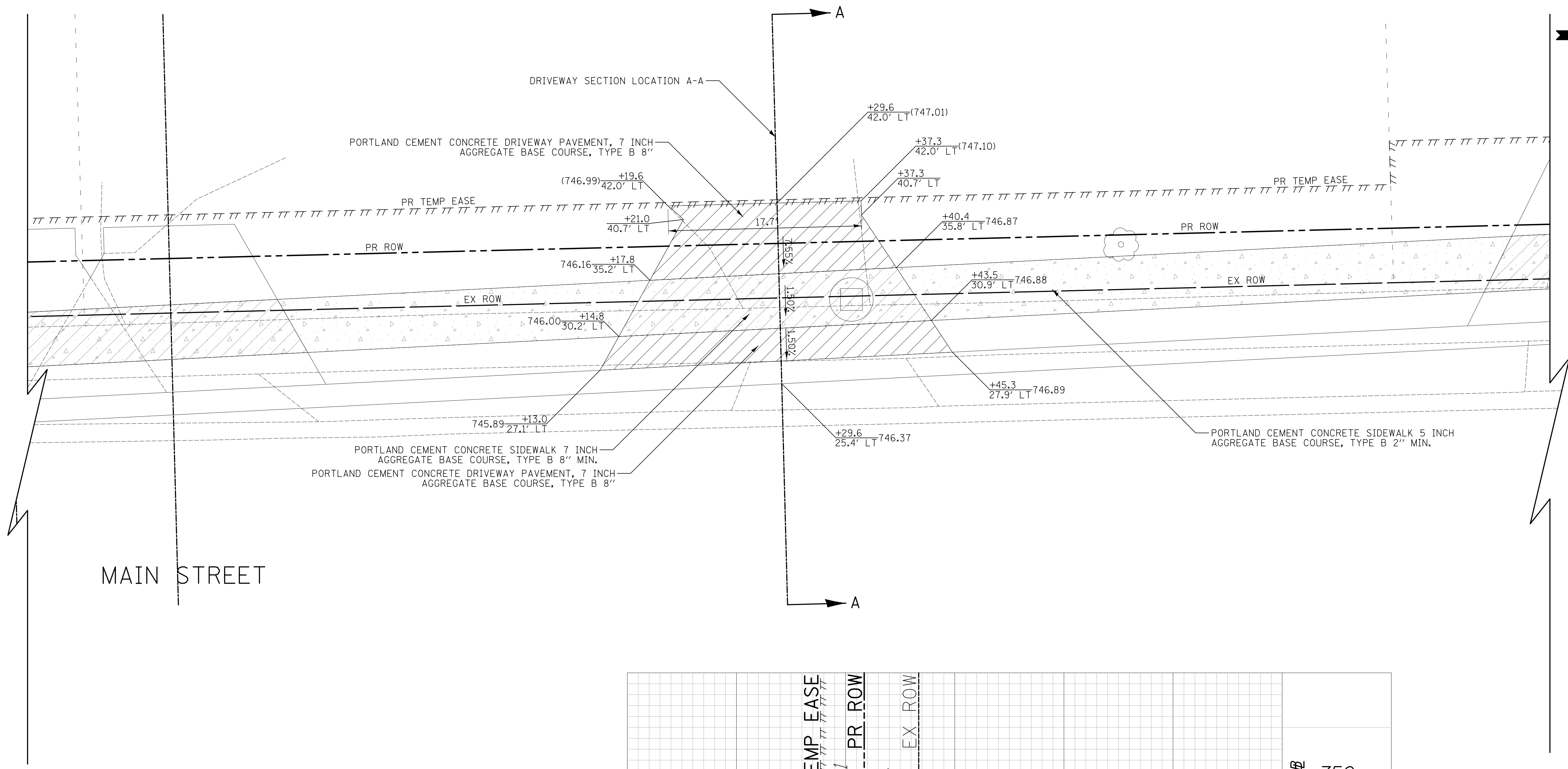
**DRIVEWAY DETAILS
MAIN STREET - STA. 196 + 73.8**

SHEET NO. 52 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	202
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

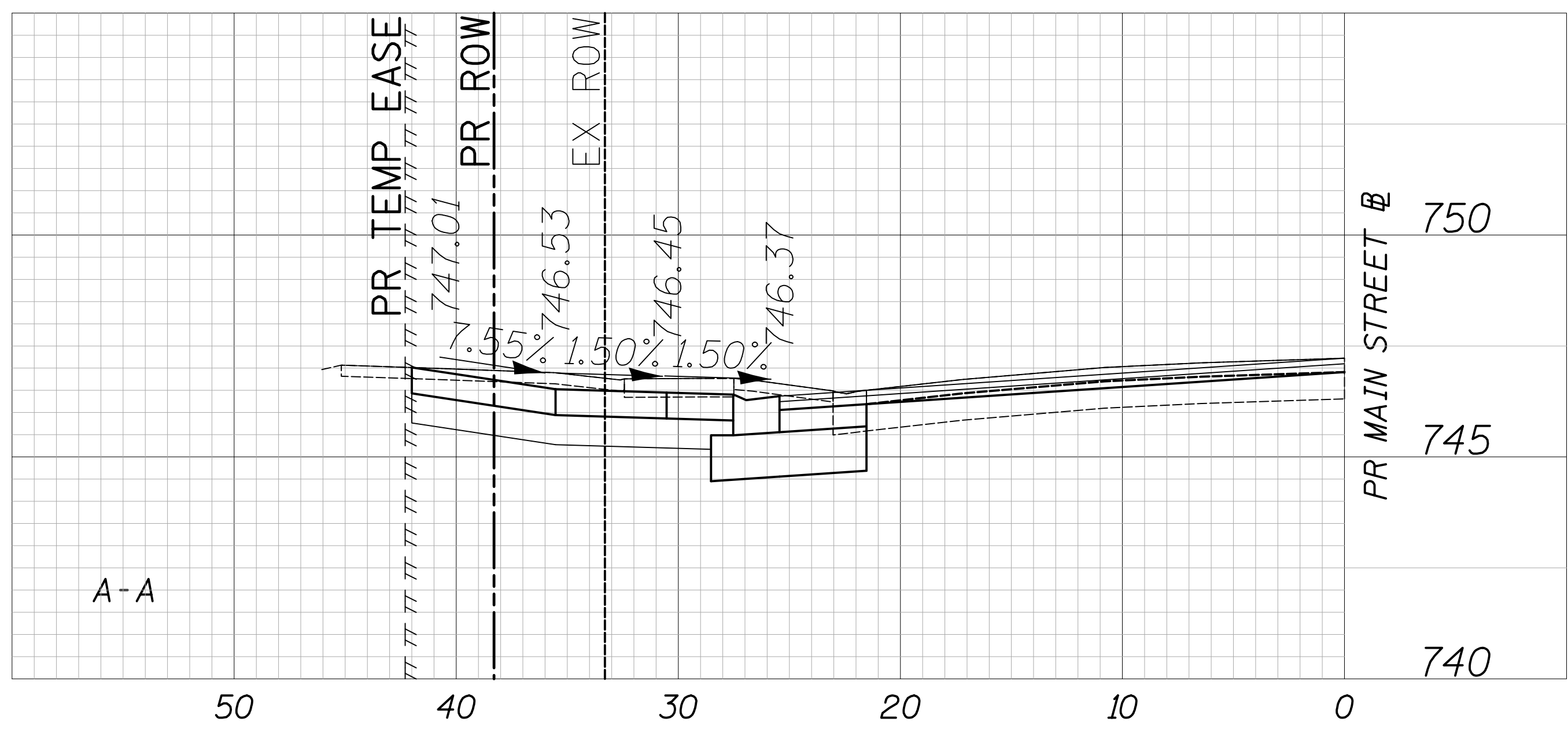
PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	



5512 MAIN STREET
PIN: 0917101030

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DRIVEWAY DETAILS
MAIN STREET - STA. 197 + 29.6

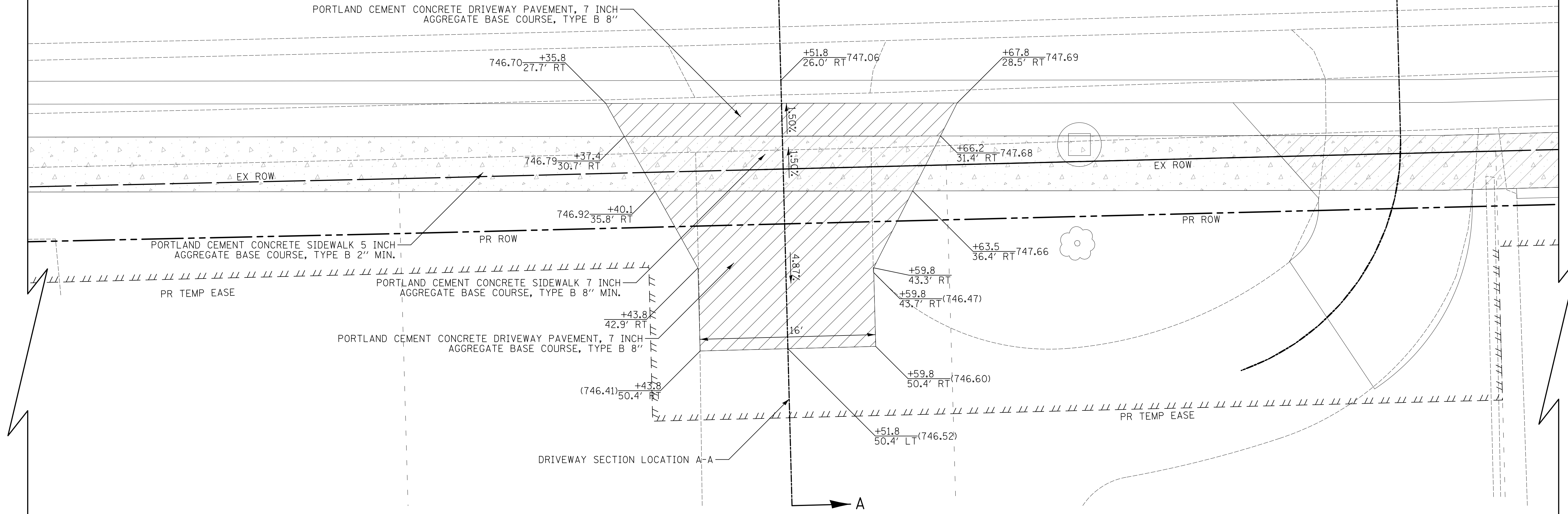
SHEET NO. 53 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	203
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTE BOOK	
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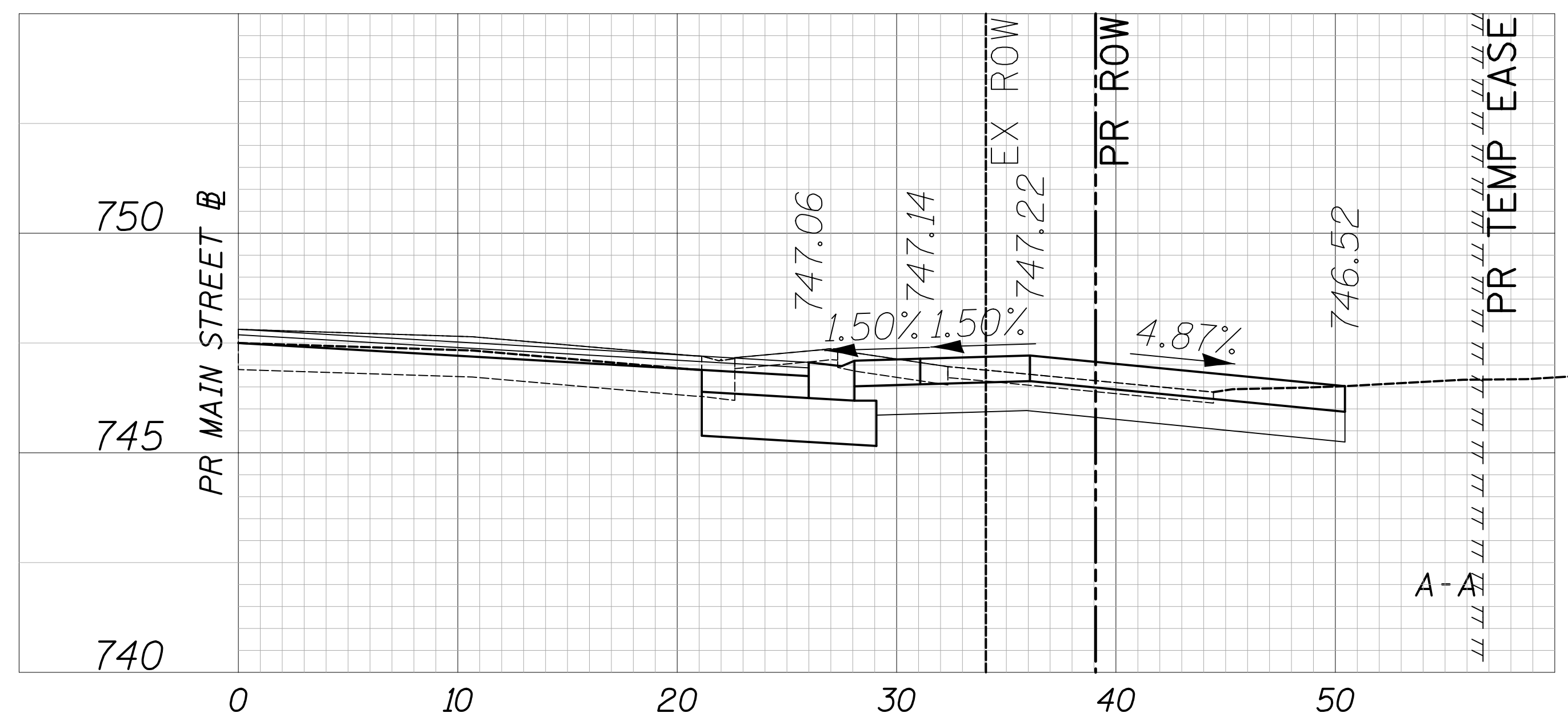
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PLOTTED	
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NO. OF WAY CHECKED	
ADD. FILE NAME	
PROFILE	
NOTE BOOK	
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MAIN STREET



5513 MAIN STREET
PIN: 0917102031

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4" AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



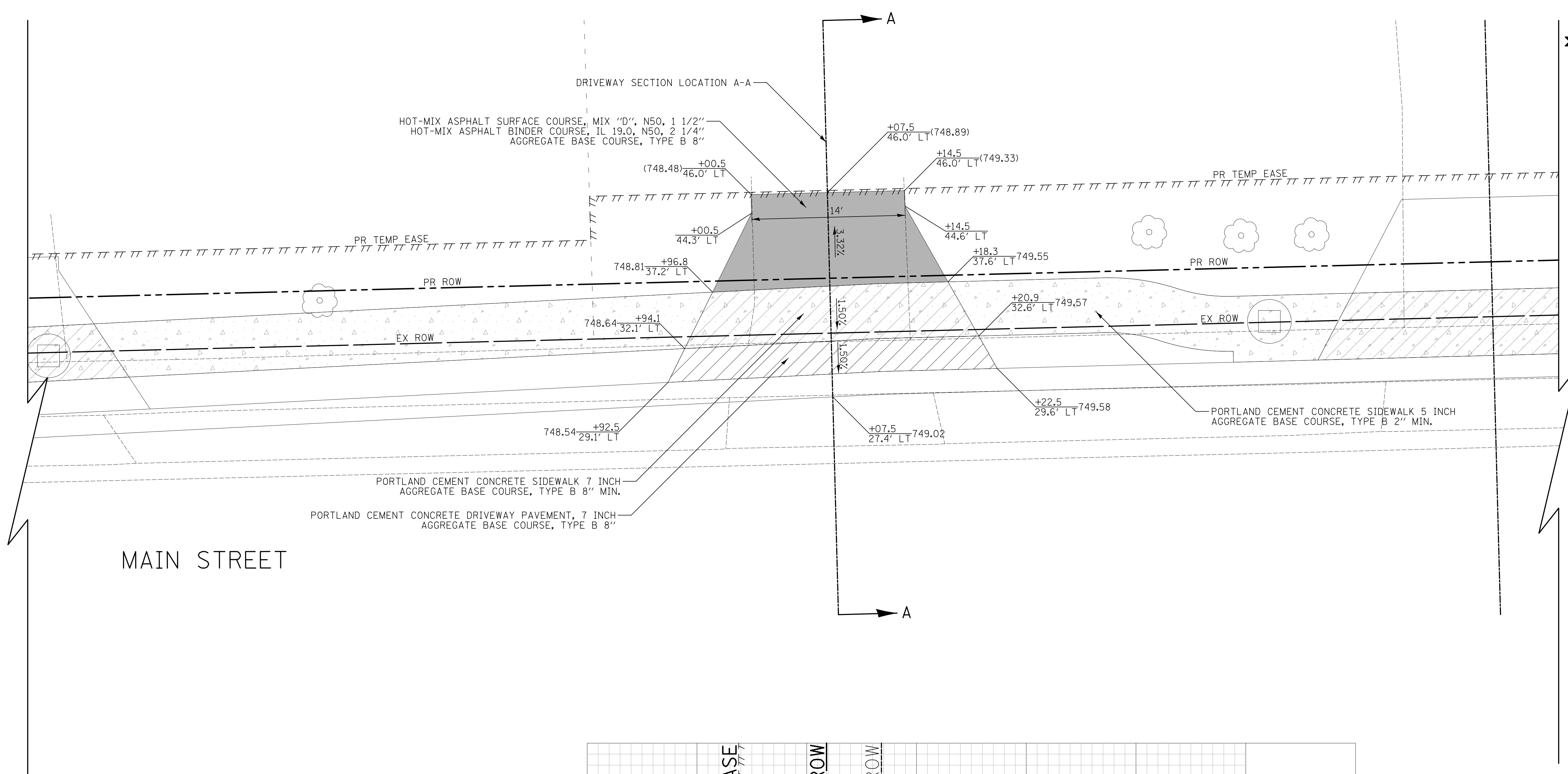
DRIVEWAY DETAILS
MAIN STREET - STA. 197 + 51.8

SHEET NO. 54 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	204
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

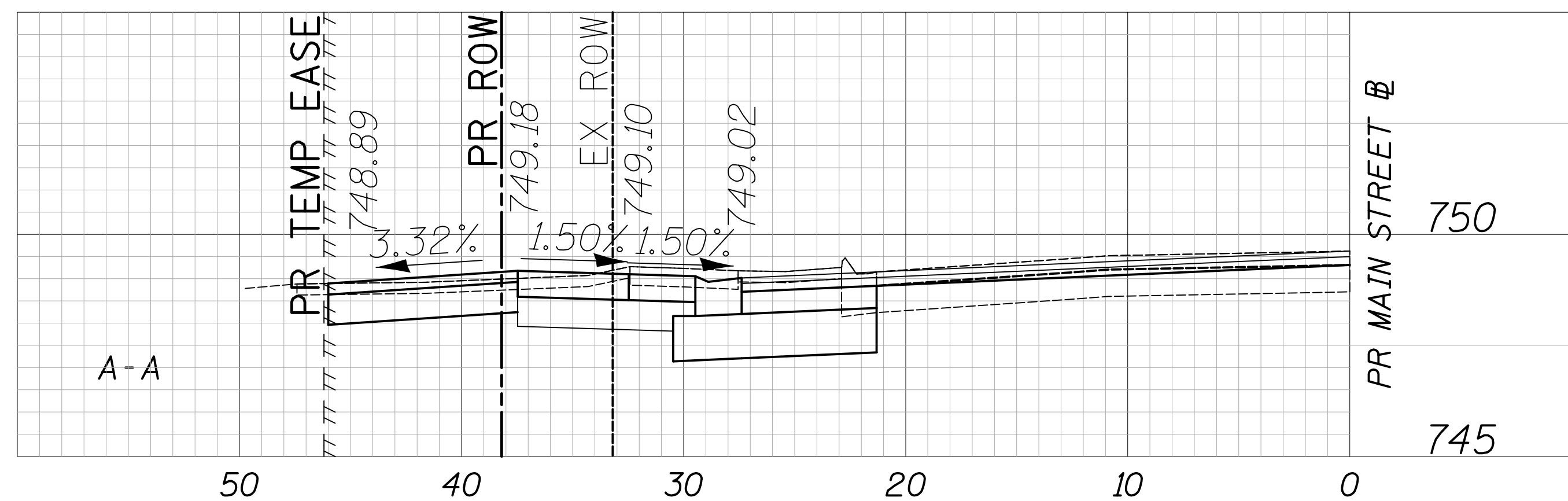
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PT. OF WAY CHECKED	
NOTE BOOK NO.	
FIELD FILE NAME	

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BY A. NOTED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	
FIELD FILE NAME	



5508 MAIN STREET
PIN: 0917101029

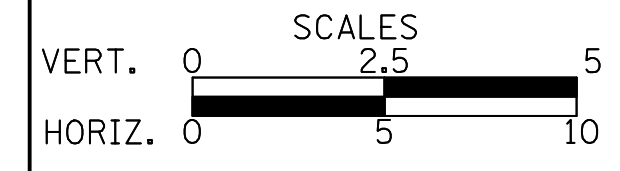
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4" AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**DRIVEWAY DETAILS
MAIN STREET - STA. 198 + 07.5**

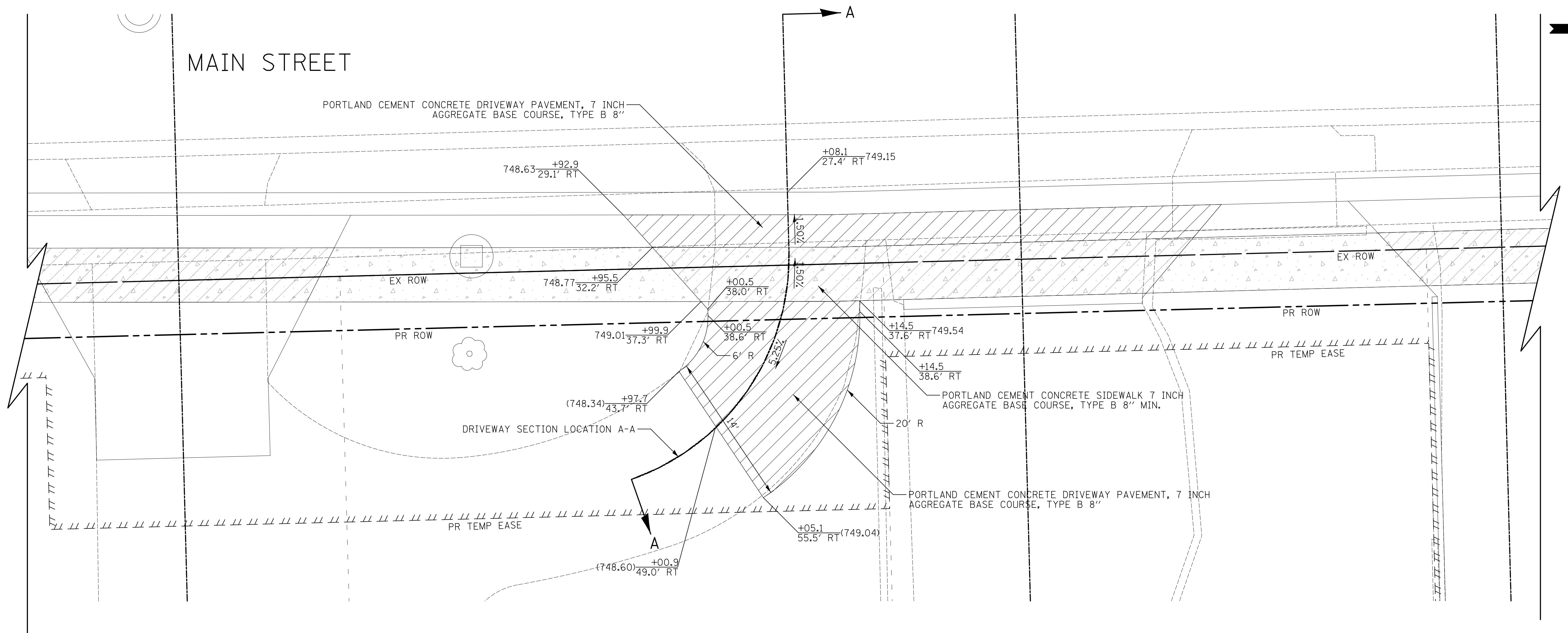
SHEET NO. 55 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	205
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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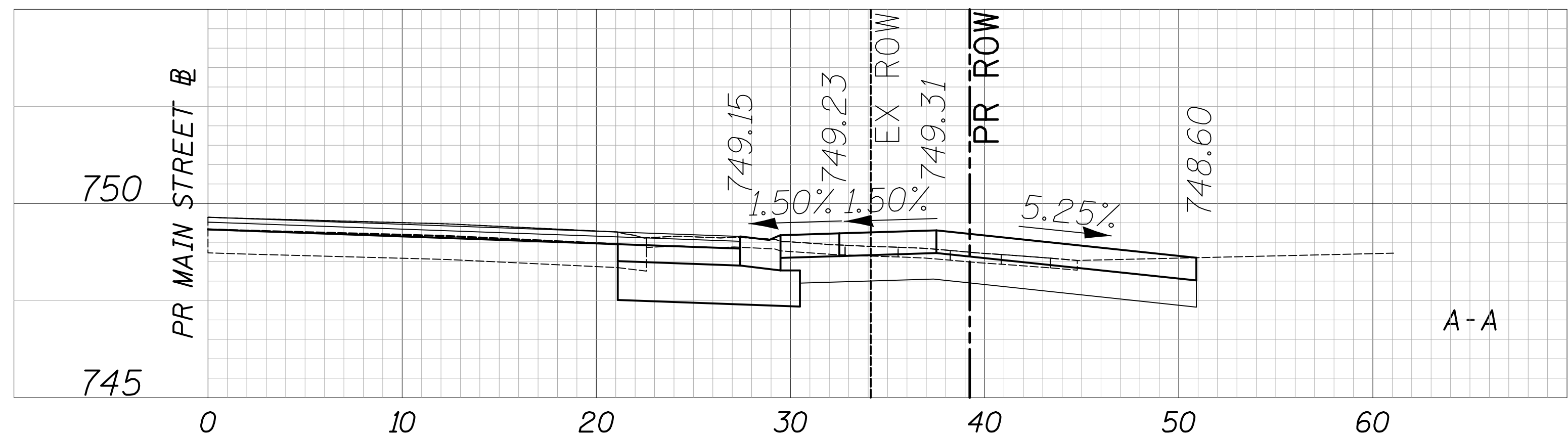
MAIN STREET



5513 MAIN STREET
PIN: 0917102004

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
- HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
- AGGREGATE BASE COURSE, TYPE B 8"
- PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
- PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
- PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
- PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
- PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DRIVEWAY DETAILS
MAIN STREET - STA. 198 + 08.1

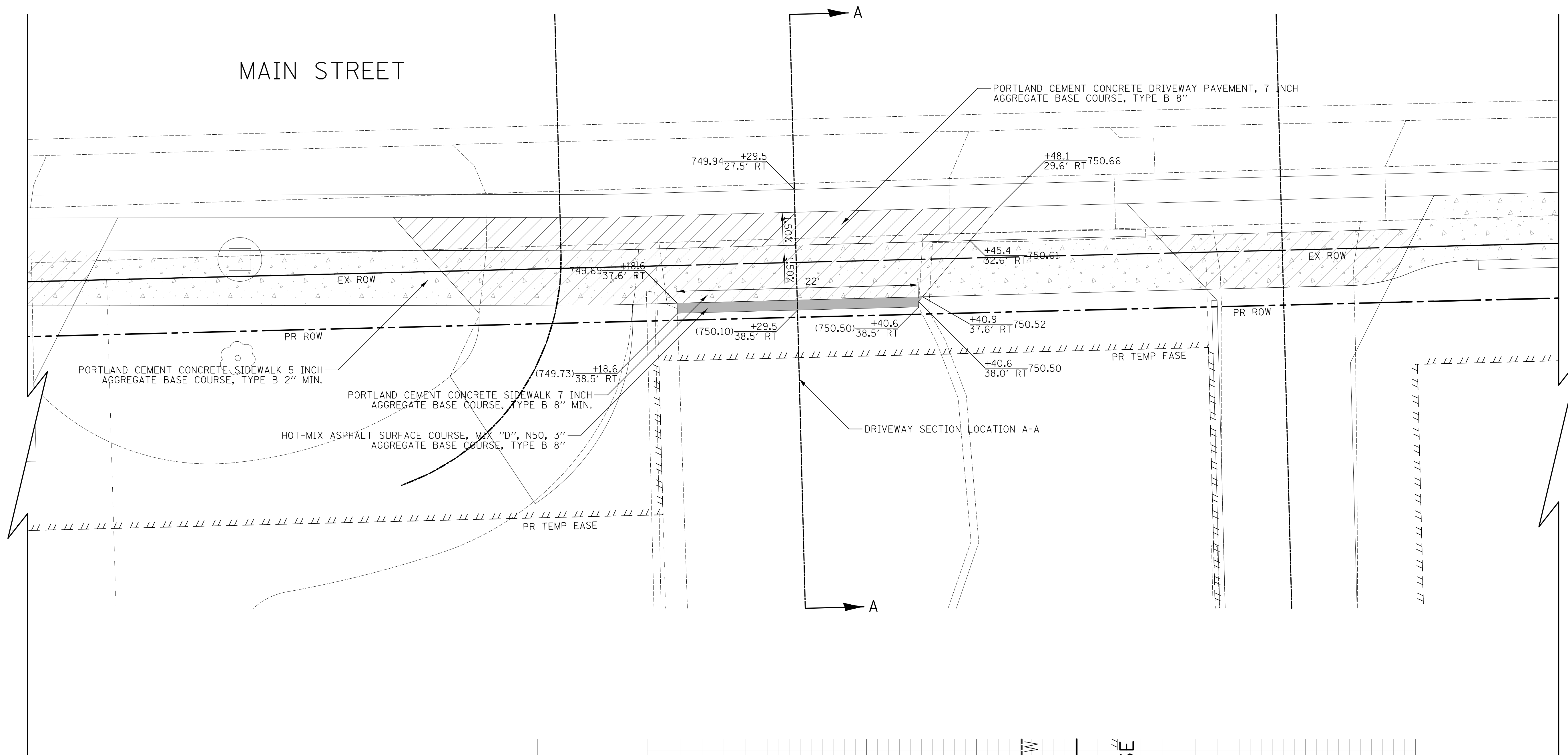
SHEET NO. 56 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	206
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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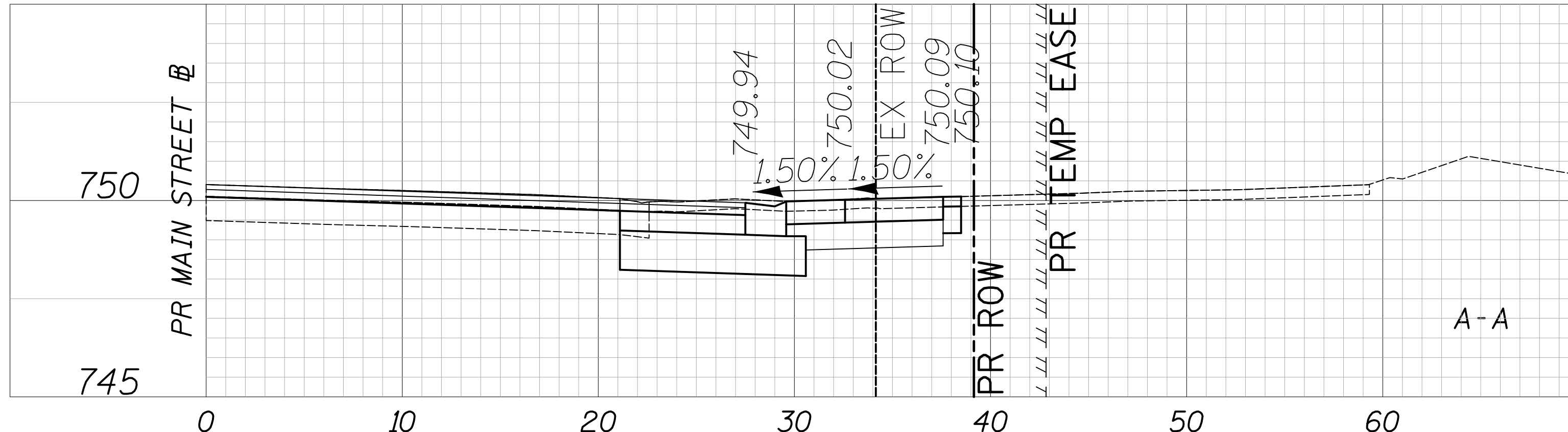
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NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE NOTATIONS	CHKD

MAIN STREET



5509 MAIN STREET
PIN: 0917102003

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT DRIVEWAY PAVEMENT, 7 INCH
AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT DRIVEWAY PAVEMENT, 8 INCH
AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH
AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH
AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



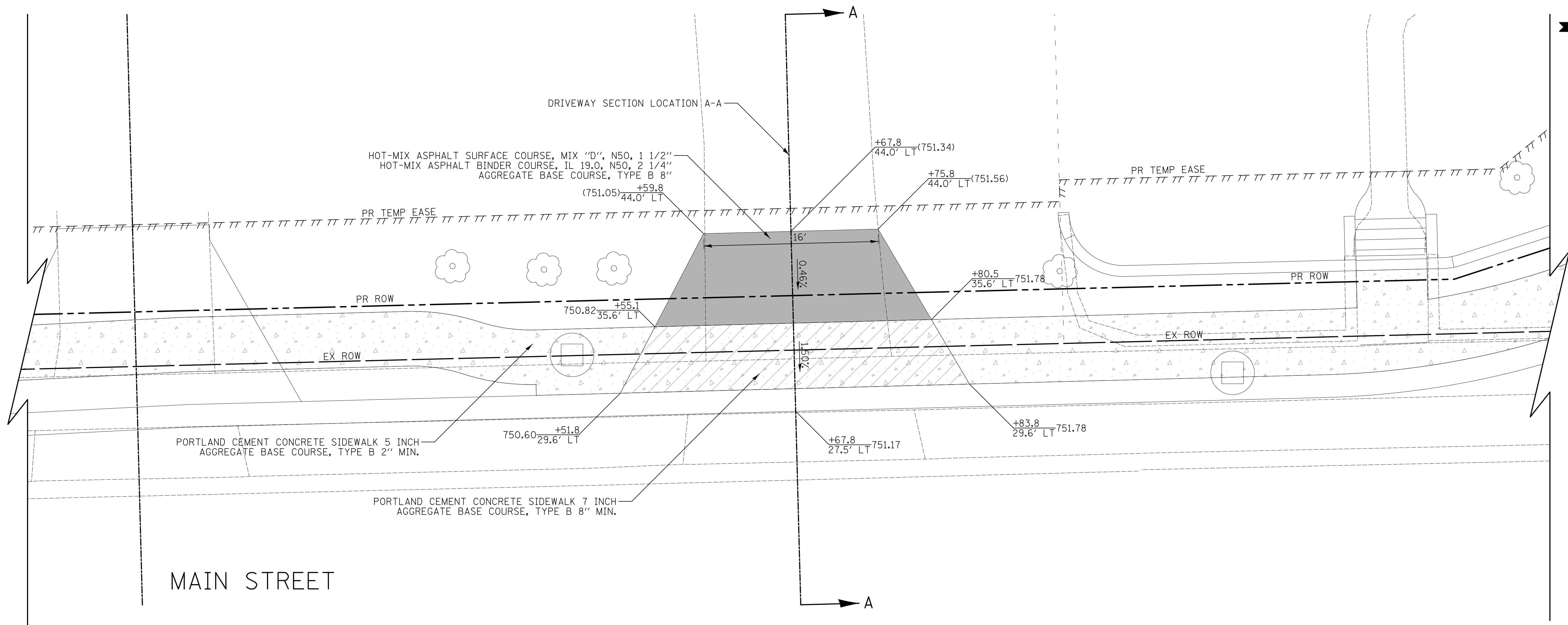
**DRIVEWAY DETAILS
MAIN STREET - STA. 198 + 29.5**

SHEET NO. 57 OF 70 SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	207
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

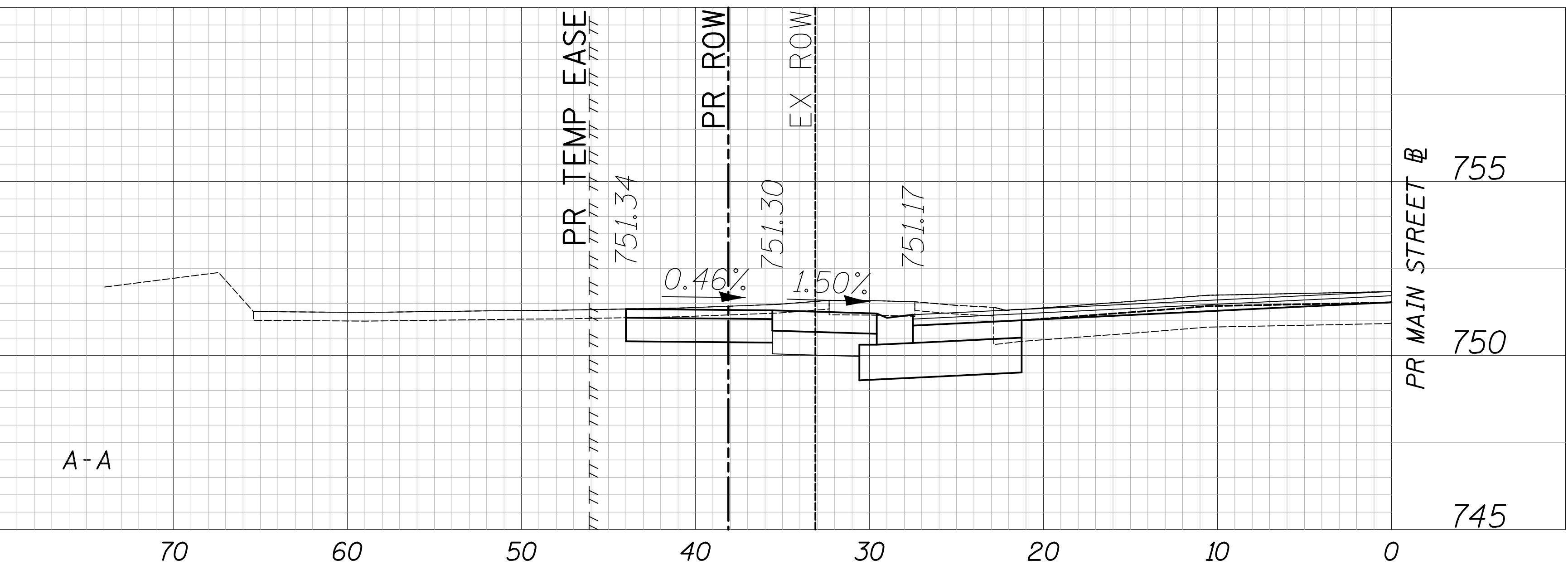
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PI. OF WAY CHECKED	
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NOTE BOOK	
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STRUCTURE	
NOTATIONS	
CHKD	

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SURVEYED	
PLOTTED	
CHECKED	
PI. OF WAY CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE	
NOTATIONS	
CHKD	



5508 MAIN STREET
PIN: 0917101029

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH
AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH
AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH
AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH
AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS
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DRIVEWAY DETAILS
MAIN STREET - STA. 198 + 67.8

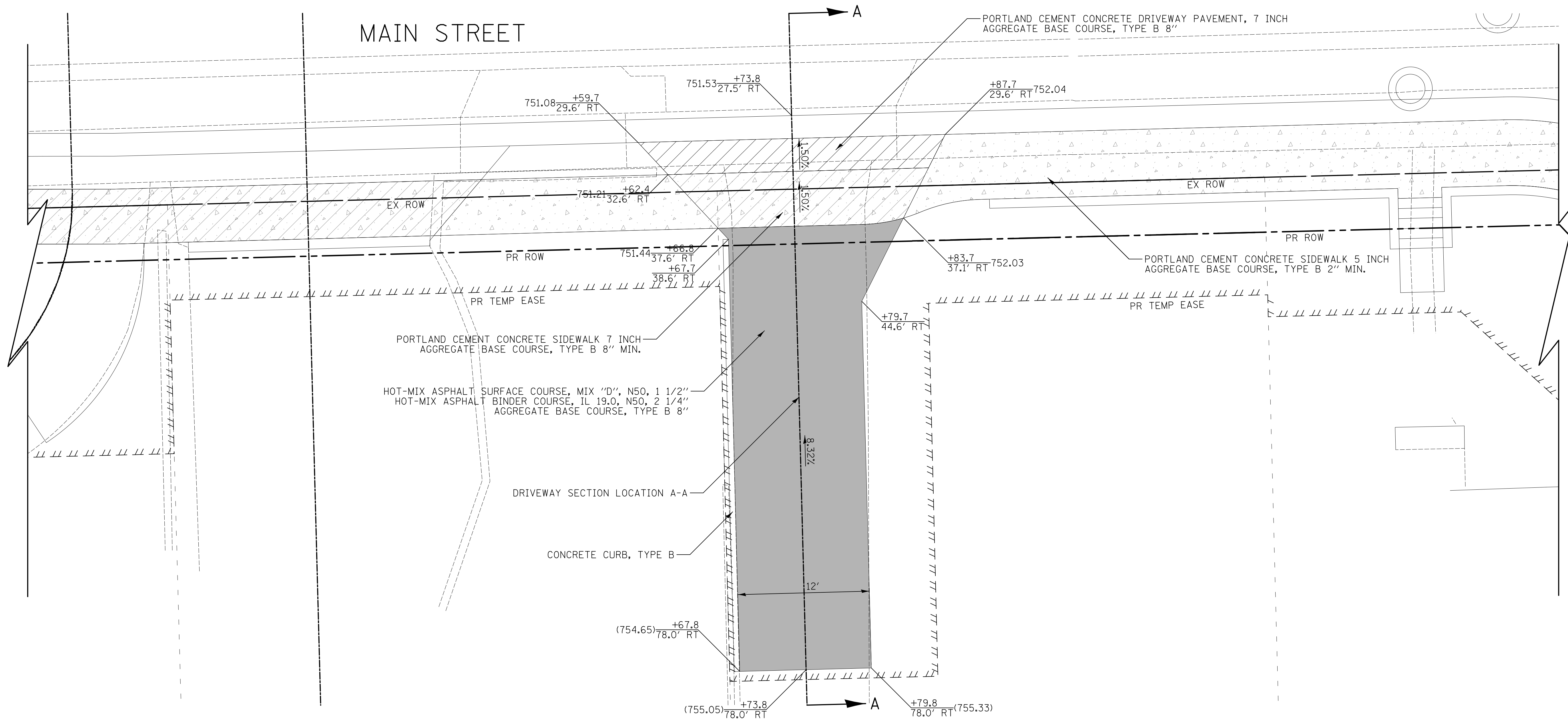
SHEET NO. 58 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	208
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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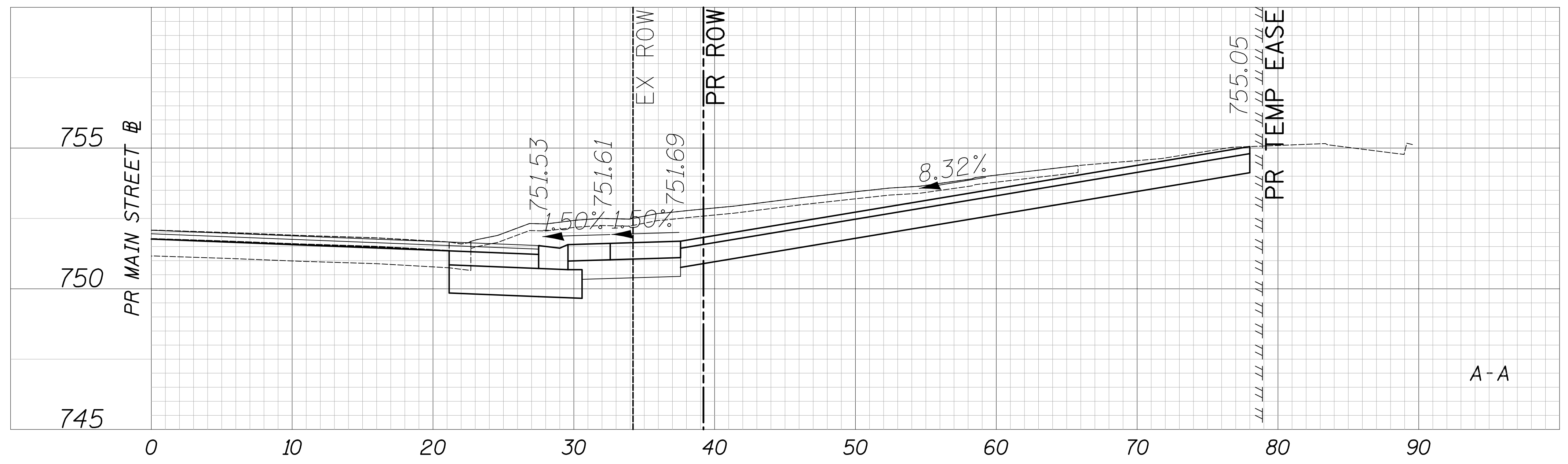
PROFILE	SURVEYED	DATE
	PLOTTED	
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	BY	
	NO. OF WAY CHECKED	
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	ADD. FILE NAME	

MAIN STREET



5505 MAIN STREET
PIN: 0917102002

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DRIVEWAY DETAILS
MAIN STREET - STA. 198 + 73.8

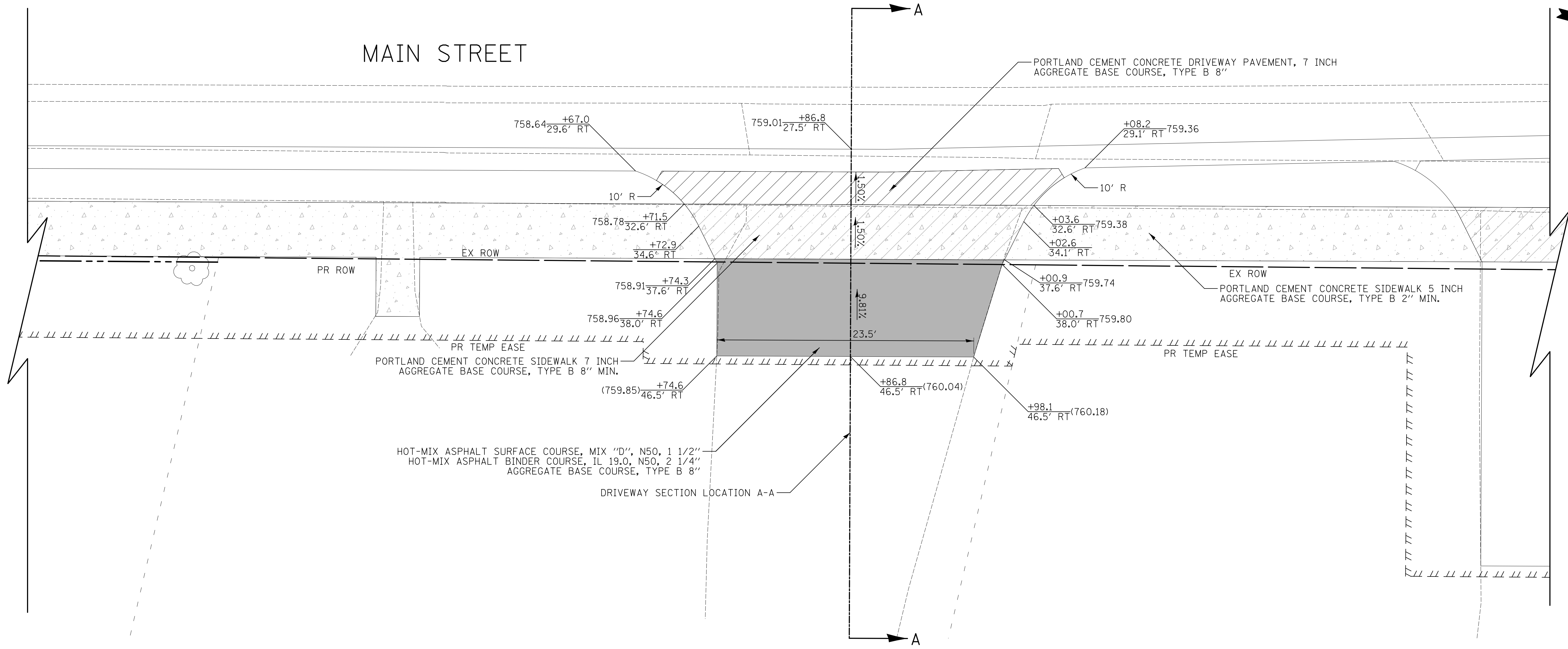
SHEET NO. 59 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	209
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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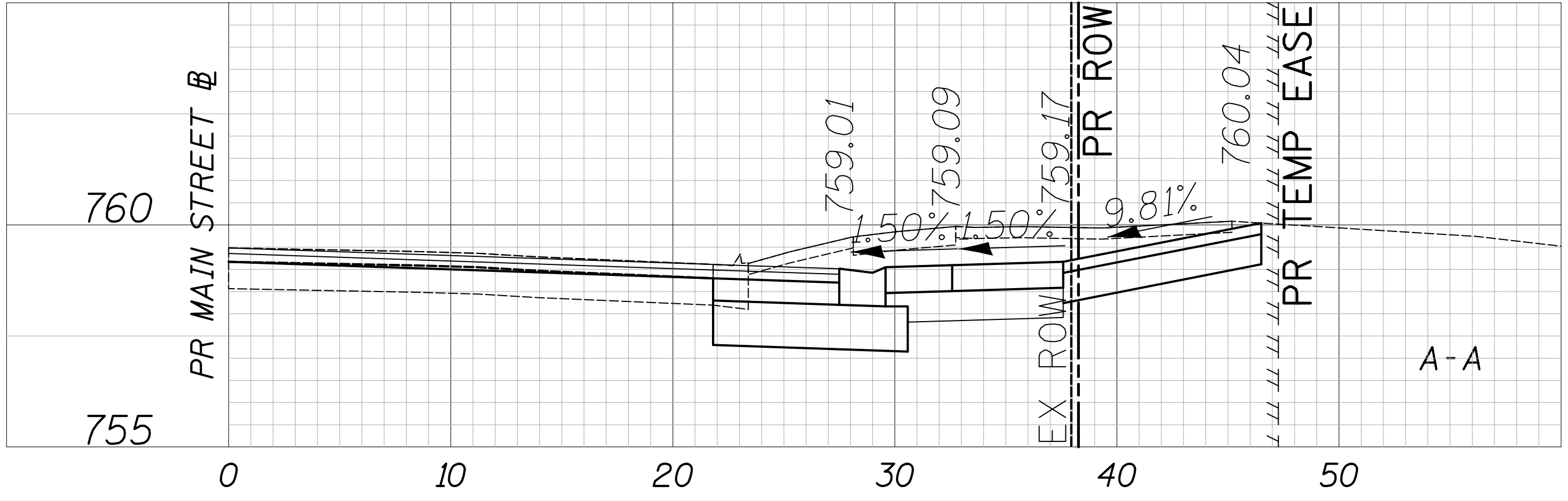
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BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
STRUCTURE NOTATIONS	CHKD

MAIN STREET



5433 MAIN STREET
PIN: 0908321027

- LEGEND**
- [Symbol] HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - [Symbol] HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - [Symbol] AGGREGATE BASE COURSE, TYPE B 8"
 - [Symbol] PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - [Symbol] PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - [Symbol] PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - [Symbol] PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - [Symbol] PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



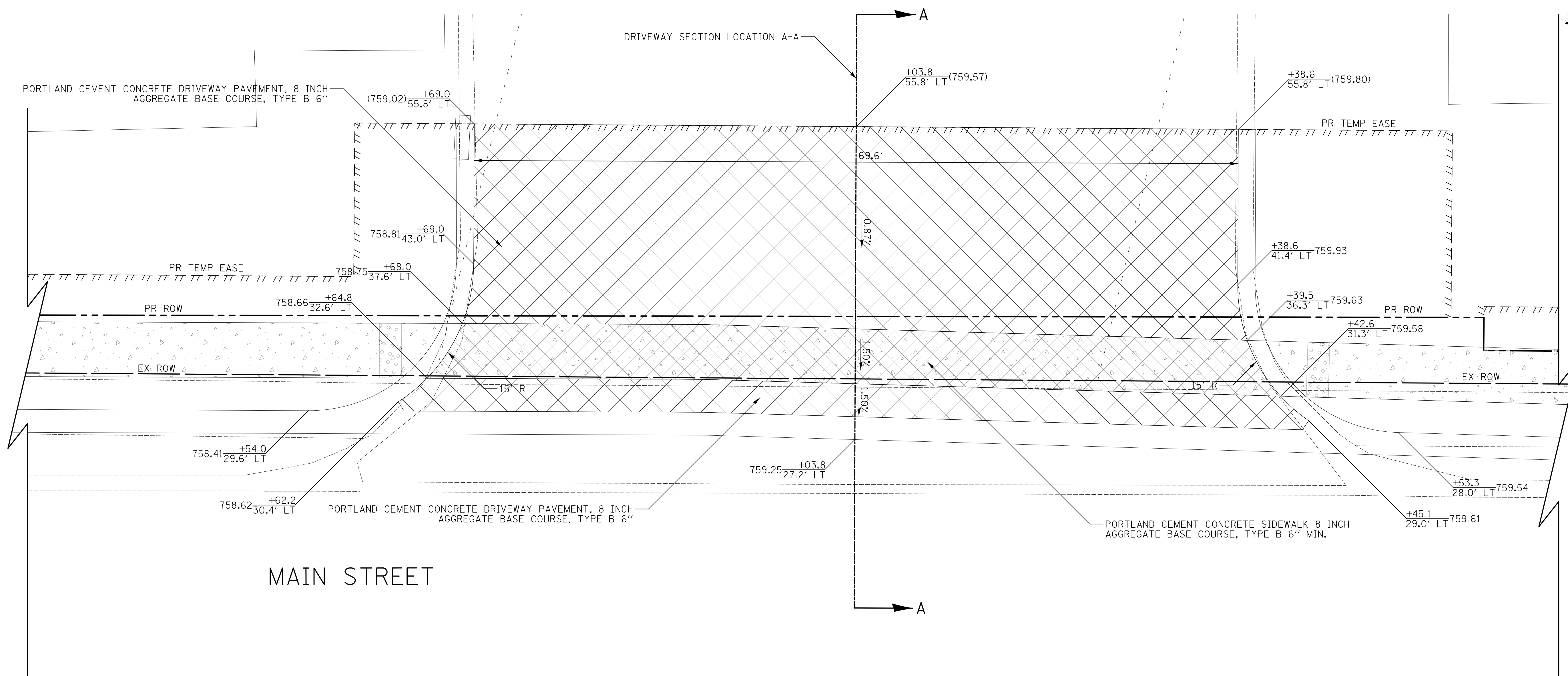
DRIVEWAY DETAILS
MAIN STREET - STA. 201 + 86.8

SHEET NO. 60 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	210
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

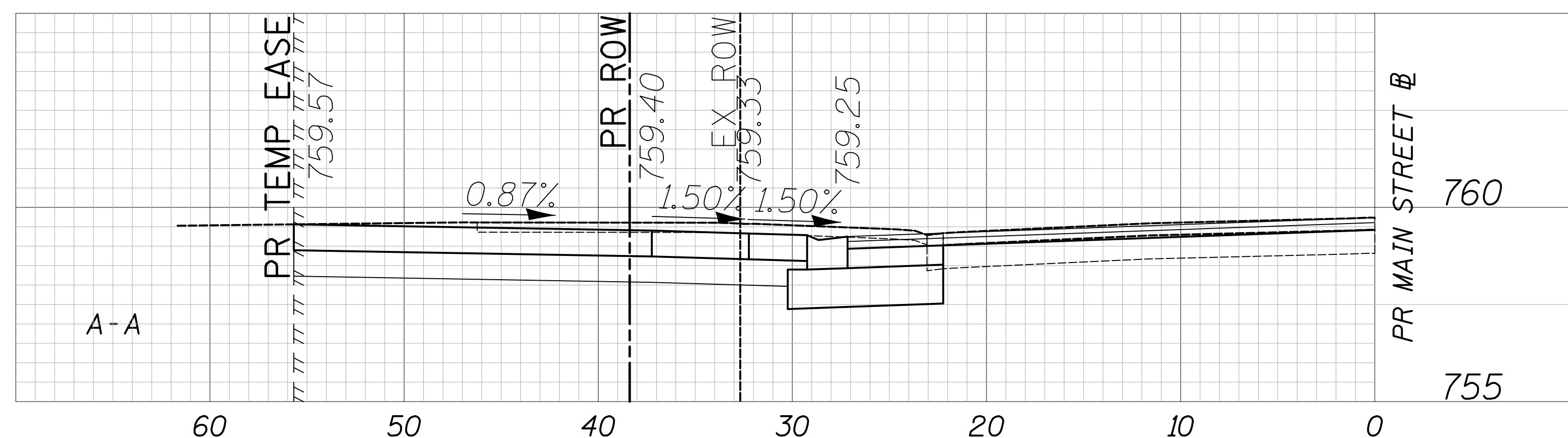
DATE	
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SURVEYED	
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NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
STRUCTURE	
NOTATIONS	
CHKD	

DATE	
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PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
STRUCTURE	
NOTATIONS	
CHKD	



1037 SUMMIT STREET
 PIN: 0908320023 - 0908320026

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018	REVISED -

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DRIVEWAY DETAILS
MAIN STREET - STA. 202 + 03.8

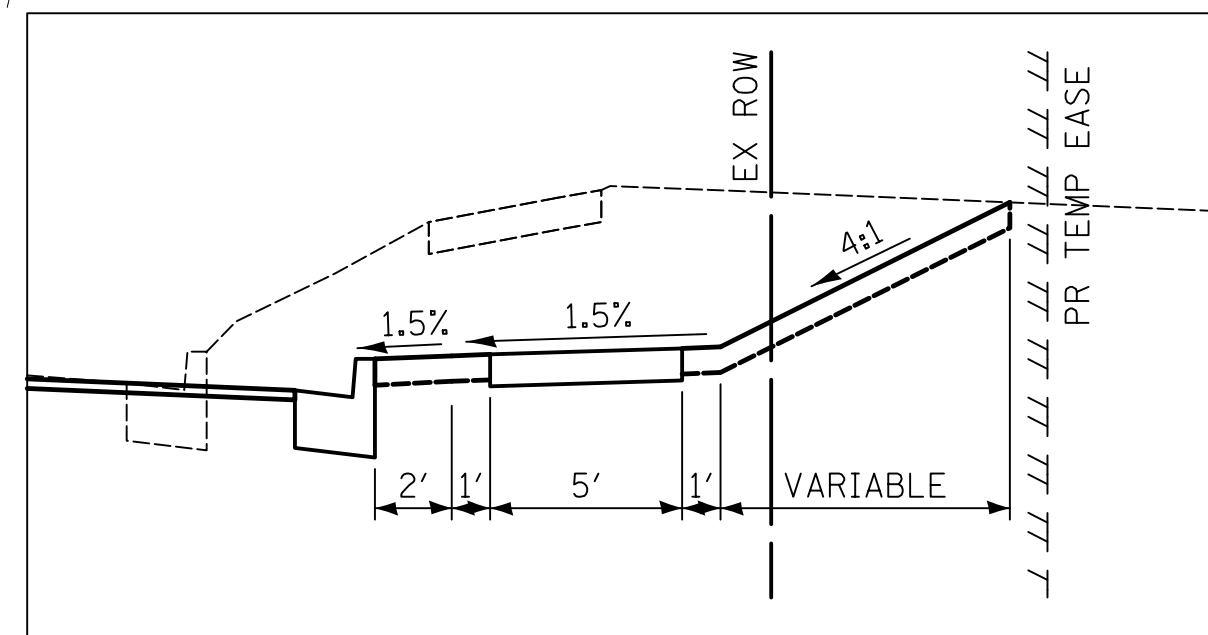
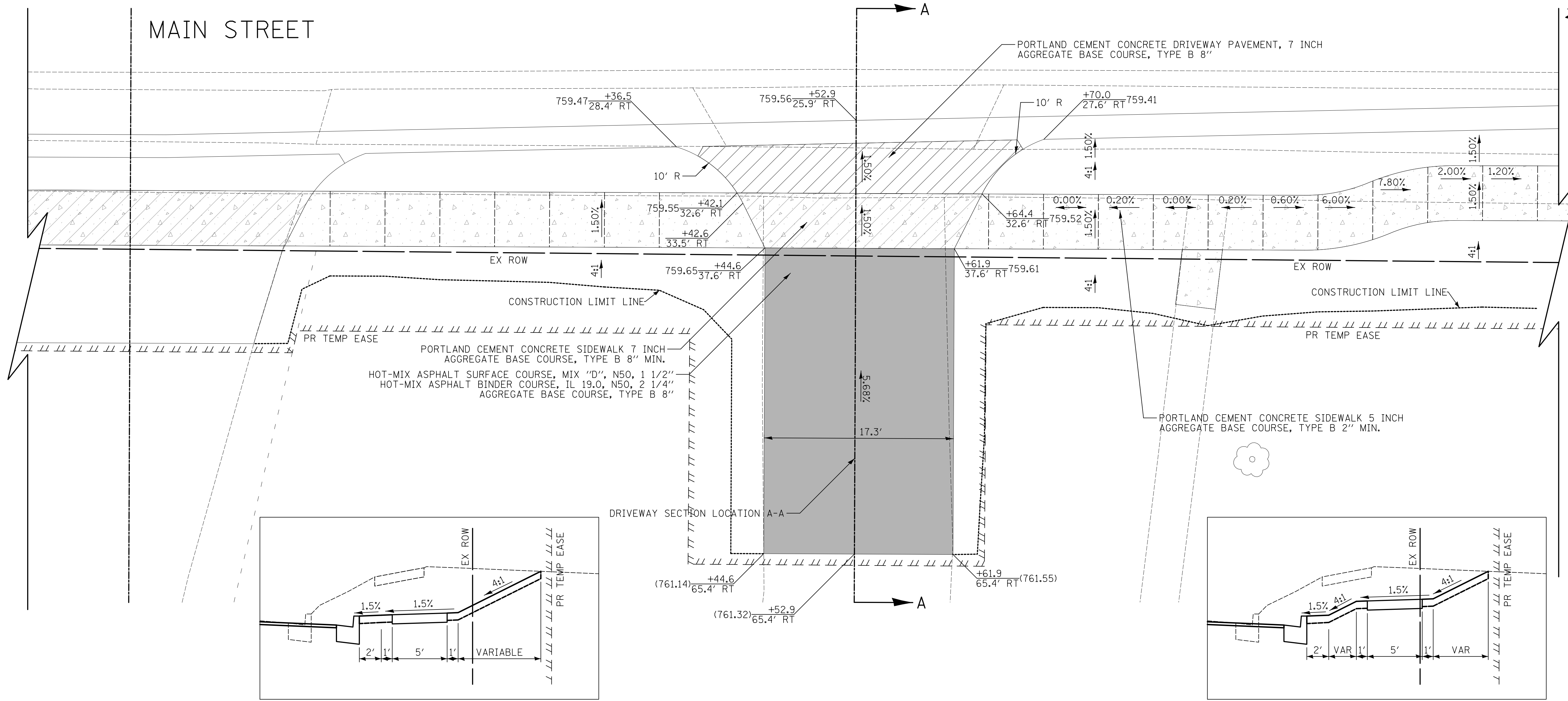
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	211
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET NO. 61 OF 70 SHEETS STA. TO STA.

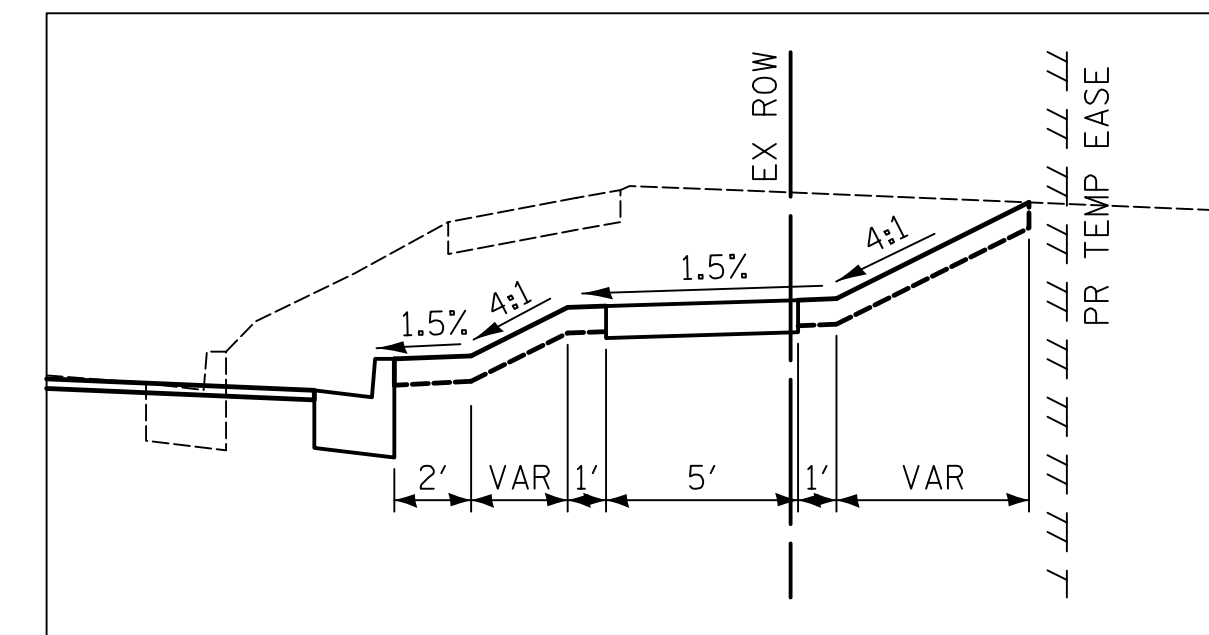
DATE	
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SURVEYED	
PLOTTED	
CHECKED	
PT. OF WAY CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE	
NOTATIONS	
CHKD	

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B.M. NOTED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE	
NOTATIONS	
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MAIN STREET



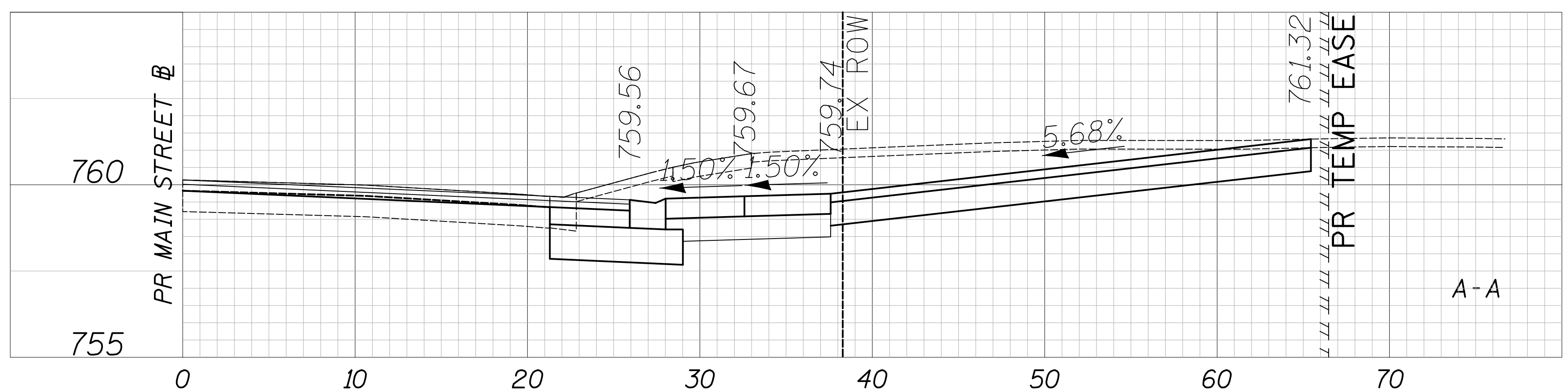
TYPICAL SIDEWALK CROSS SECTION WITH 3 FEET BETWEEN BOC AND SW EDGE



TYPICAL SIDEWALK CROSS SECTION DISTANCE GREATER THAN 3 FEET BETWEEN BOC AND SW EDGE

5427 MAIN STREET
PIN: 0908321033

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4" AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**DRIVEWAY DETAILS
MAIN STREET - STA. 202 + 52.9**

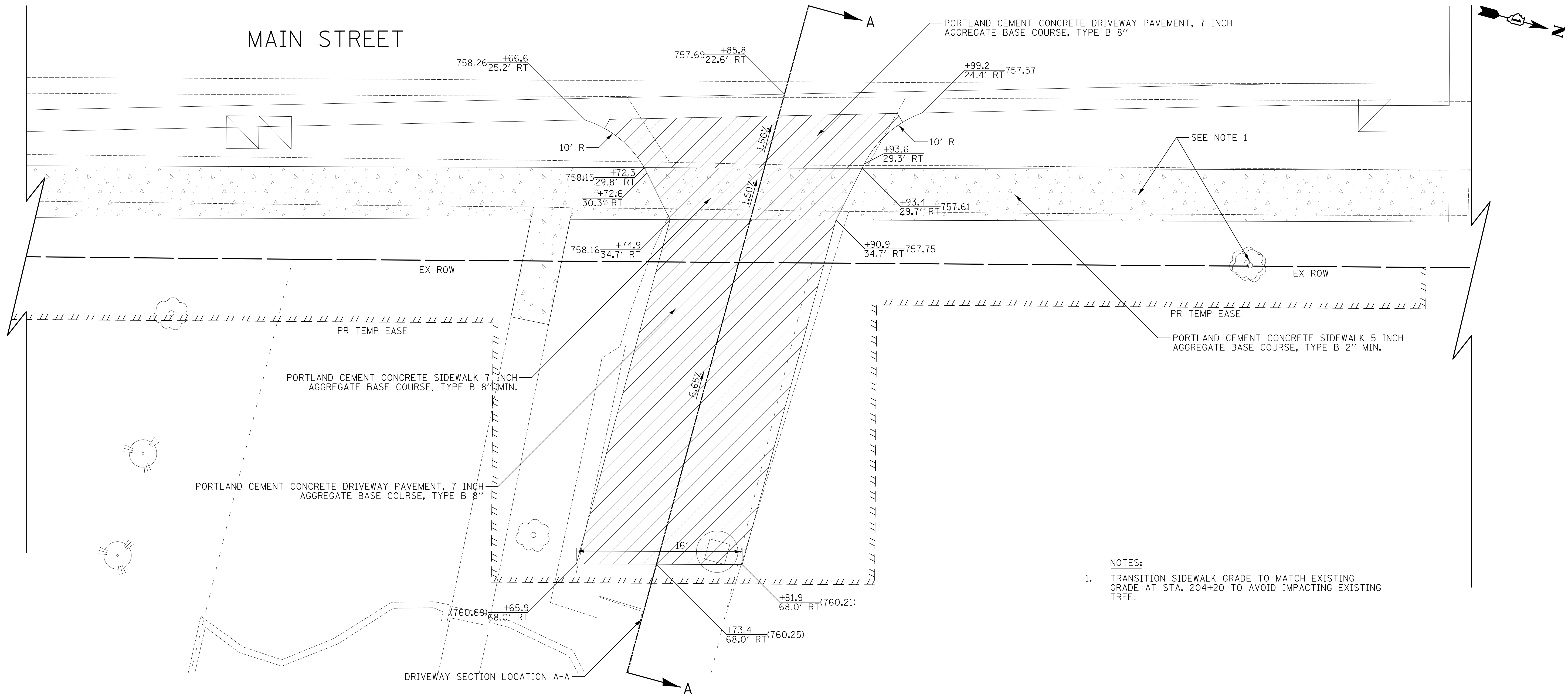
SHEET NO. 62 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	212
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	NO. OF WAY CHECKED	
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PROFILE	SURVEYED	DATE
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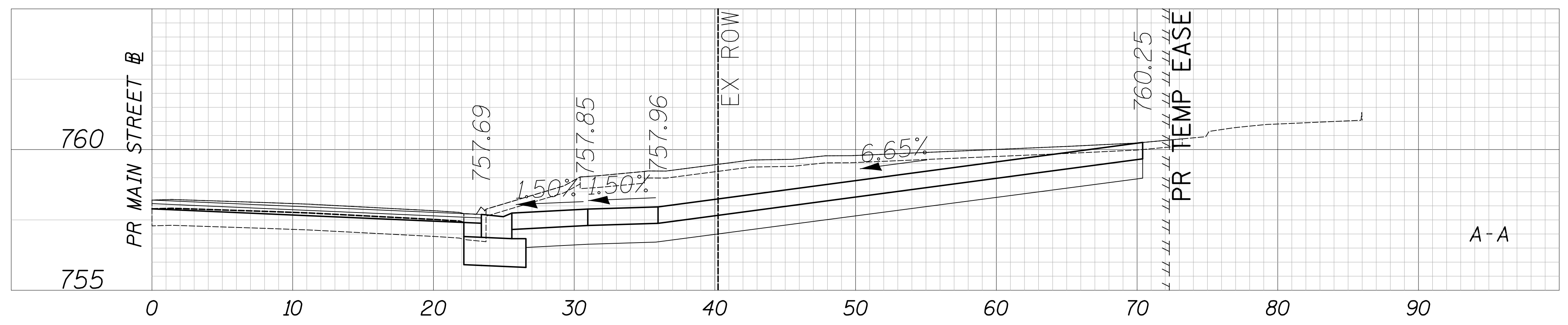
MAIN STREET



- NOTES:
- TRANSITION SIDEWALK GRADE TO MATCH EXISTING GRADE AT STA. 204+20 TO AVOID IMPACTING EXISTING TREE.

5421 MAIN STREET
PIN: 0908321008

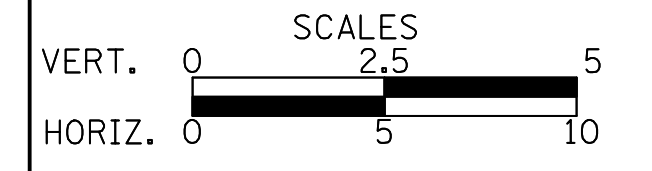
LEGEND	
[Pattern]	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
[Pattern]	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
[Pattern]	AGGREGATE BASE COURSE, TYPE B 8"
[Pattern]	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
[Pattern]	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
[Pattern]	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
[Pattern]	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
[Pattern]	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018	REVISED -

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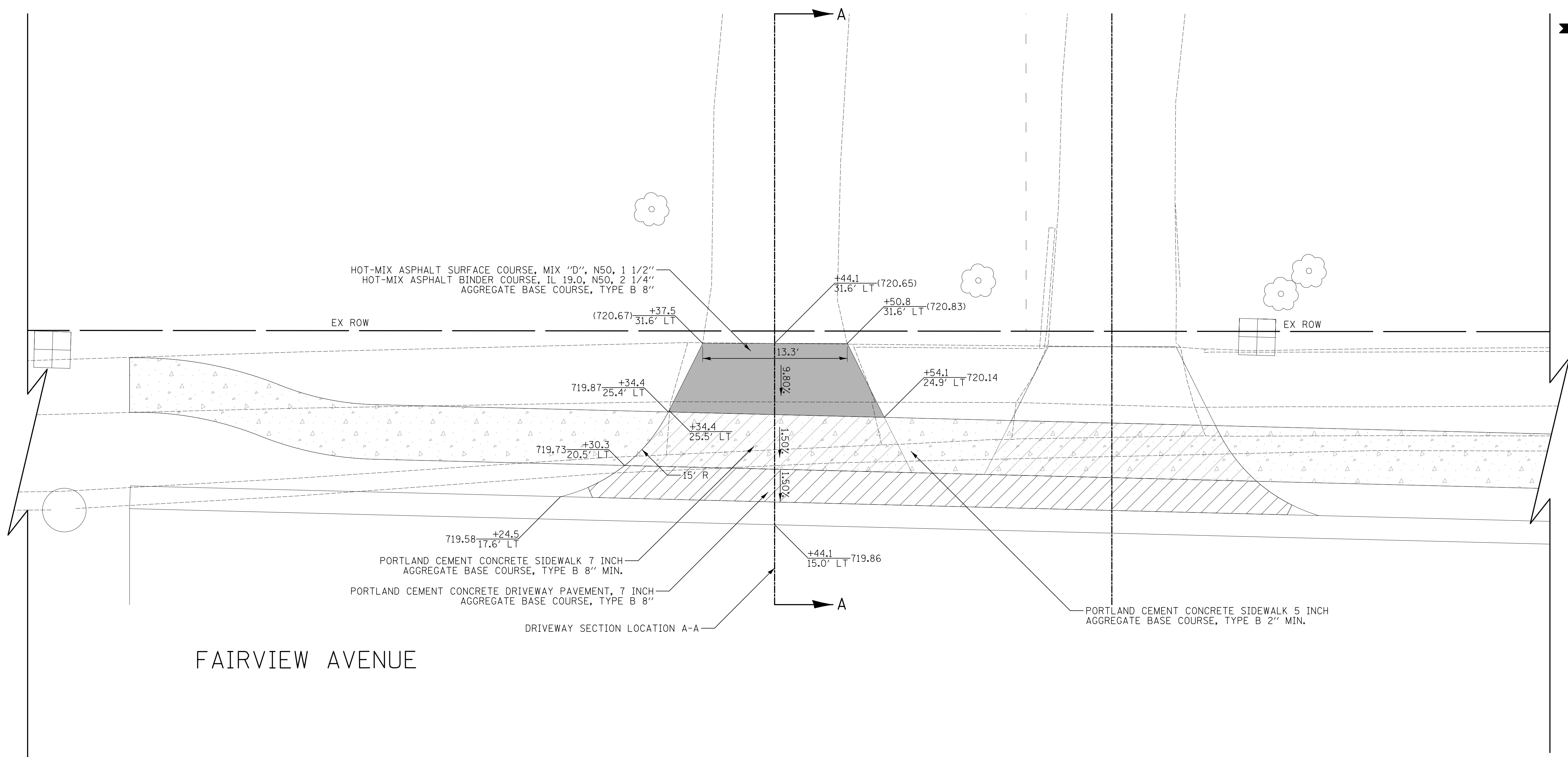
DRIVEWAY DETAILS
MAIN STREET - STA. 203 + 91.9

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	213
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET NO. 63 OF 70 SHEETS STA. TO STA.

DATE	
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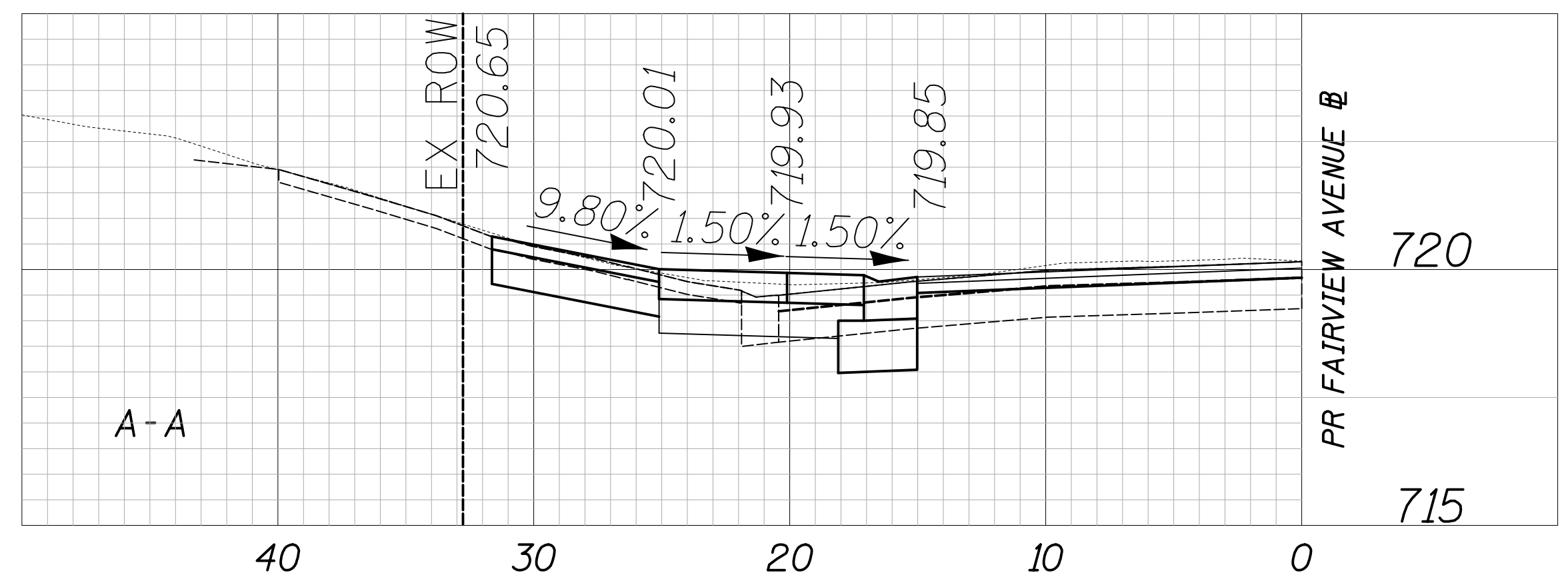
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NO. OF WAY CHECKED	
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ADD. FILE NAME	



FAIRVIEW AVENUE

5516 FAIRVIEW AVENUE
PIN: 0917203009

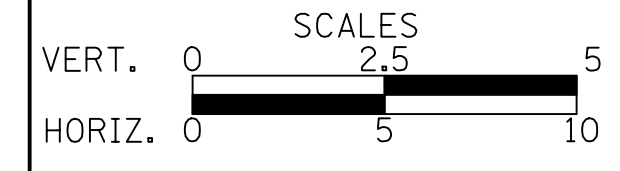
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH
AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH
AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH
AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH
AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018	REVISED -

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DEPARTMENT OF TRANSPORTATION



DRIVEWAY DETAILS
FAIRVIEW AVENUE - STA. 297 + 44.1

SHEET NO. 64 OF 70 SHEETS STA. TO STA.

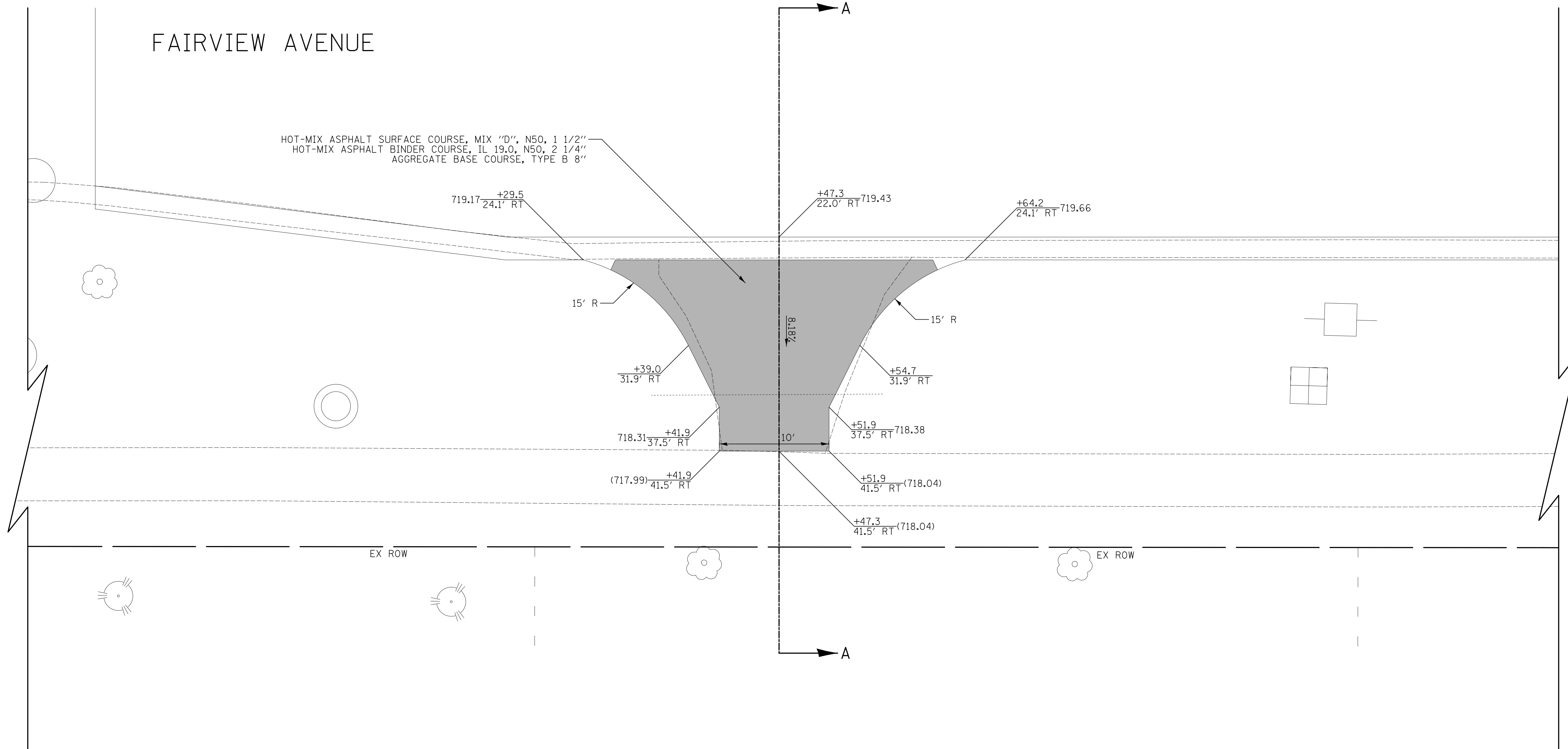
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1504	11-00302-04-CH	DUPAGE	341	214
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTE BOOK	
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ADD. FILE NAME	

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CHECKED	
BA. NOTED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE NOTATIONS CHKD	

FAIRVIEW AVENUE

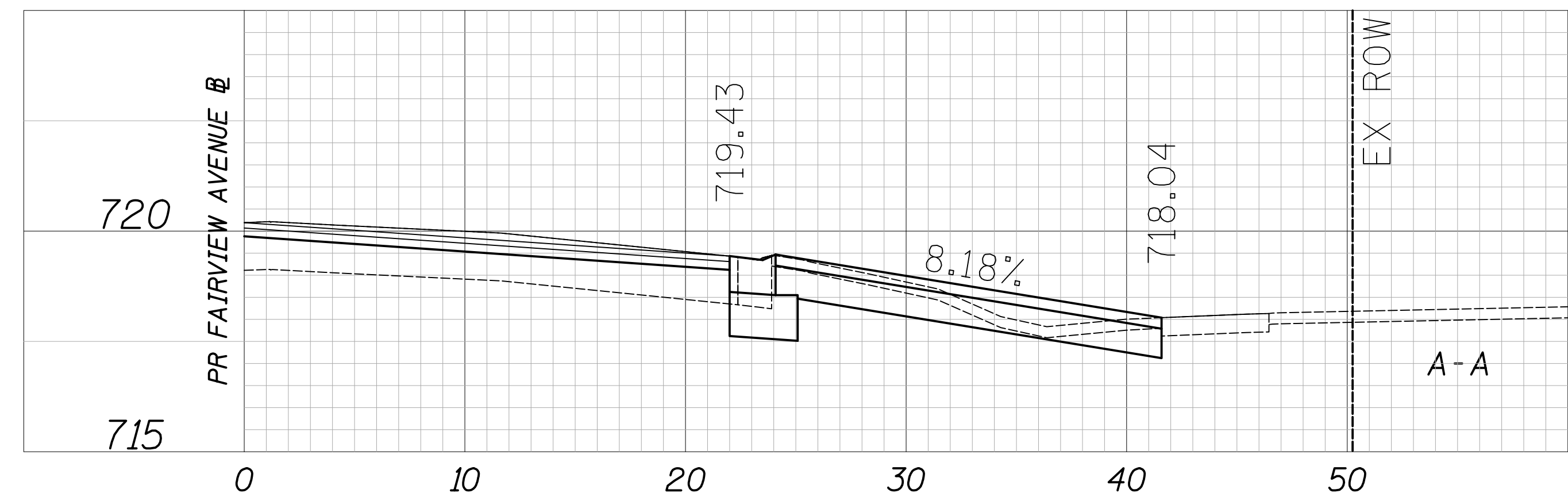
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
AGGREGATE BASE COURSE, TYPE B 8"



5513 FAIRVIEW AVENUE
PIN: 0916100019

LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
AGGREGATE BASE COURSE, TYPE B 8"
- PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH
AGGREGATE BASE COURSE, TYPE B 8"
- PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH
AGGREGATE BASE COURSE, TYPE B 6"
- PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
AGGREGATE BASE COURSE, TYPE B 2" MIN.
- PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH
AGGREGATE BASE COURSE, TYPE B 8" MIN.
- PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH
AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018

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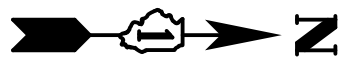
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DRIVEWAY DETAILS FAIRVIEW AVENUE - STA. 297 + 47.3

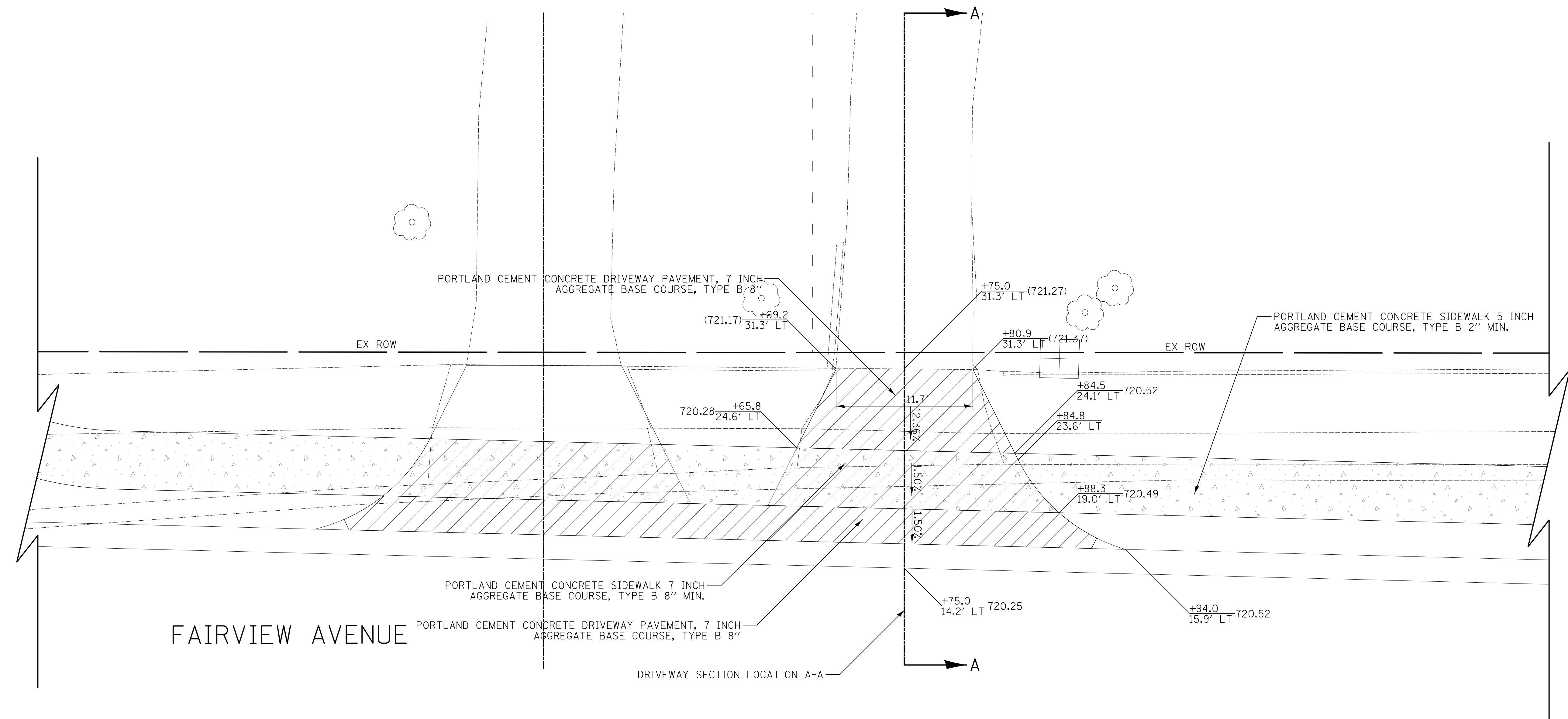
SHEET NO. 65 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	215
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



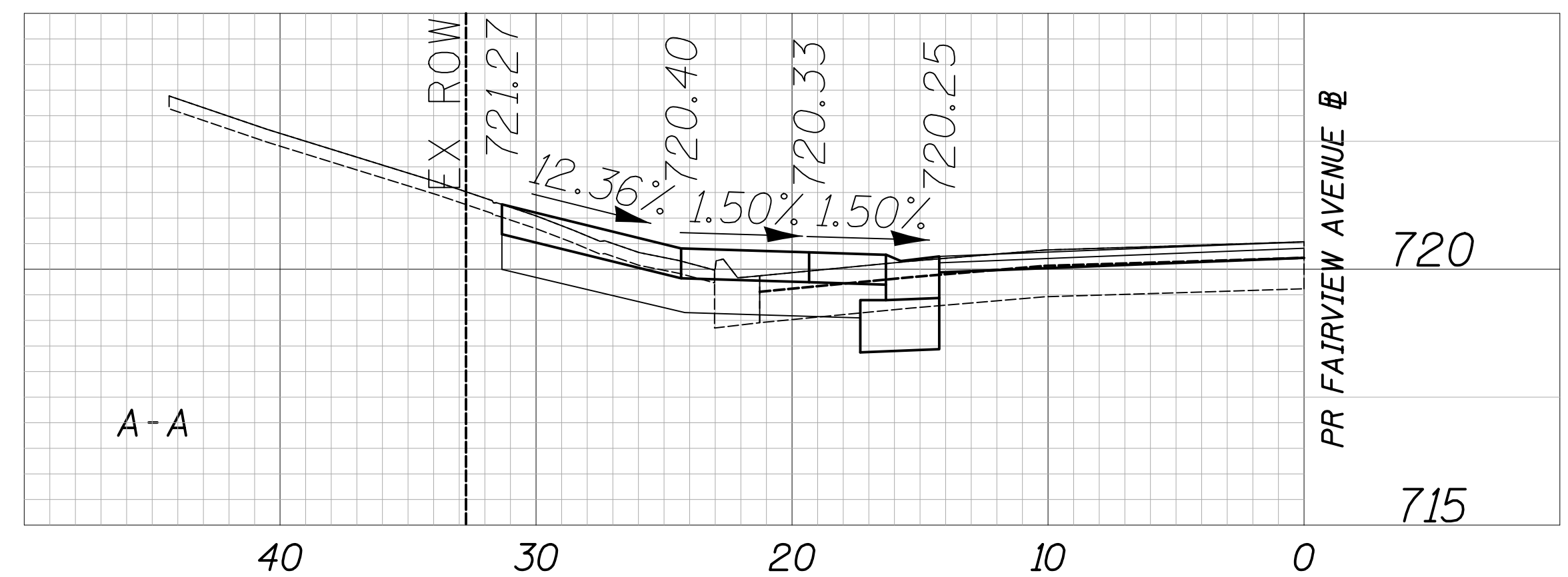
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ADD. FILE NAME	



5512 FAIRVIEW AVENUE
PIN: 0917203008

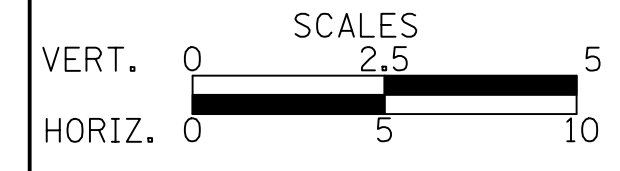
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**DRIVEWAY DETAILS
FAIRVIEW AVENUE - STA. 297 + 74.9**

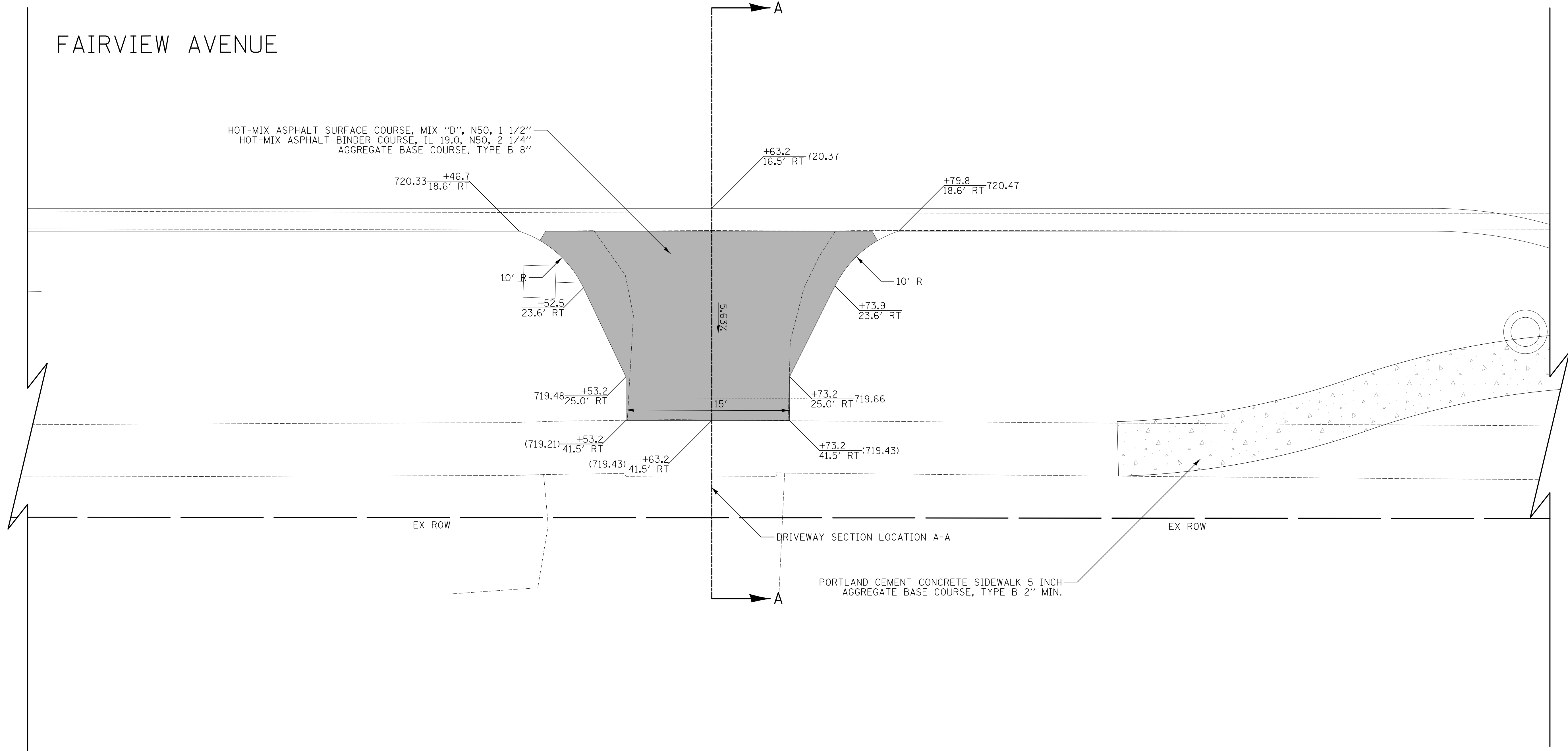
SHEET NO. 66 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH		341	216
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



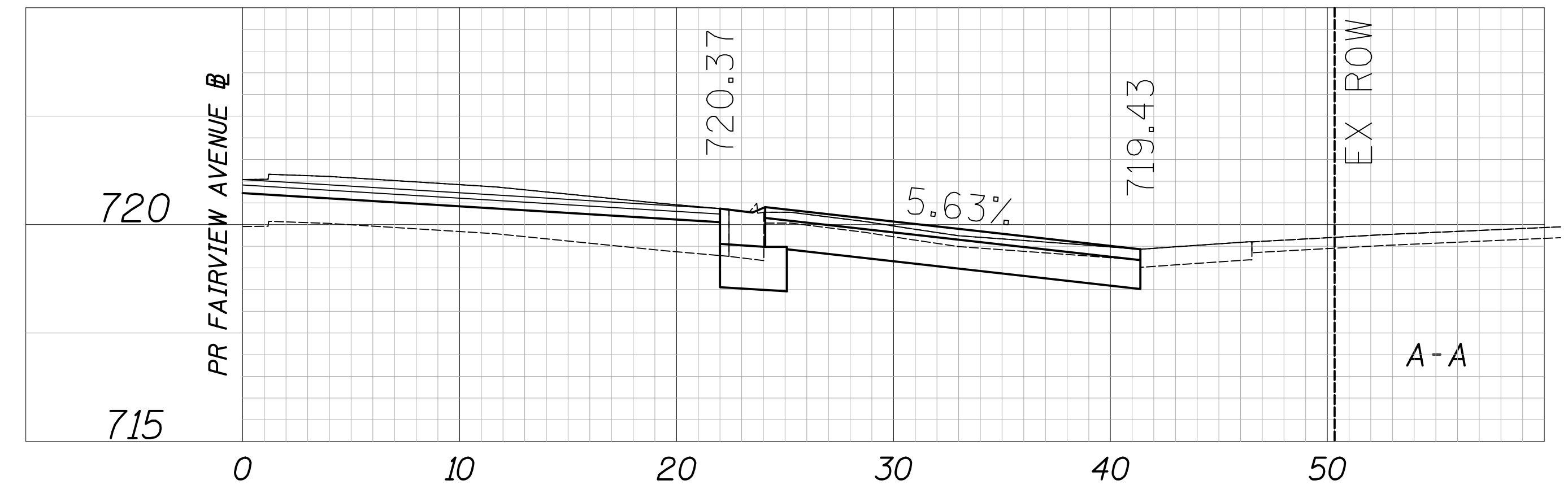
FAIRVIEW AVENUE

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 AGGREGATE BASE COURSE, TYPE B 8"



5501 FAIRVIEW AVENUE
 PIN: 0916100001

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH
AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH
AGGREGATE BASE COURSE, TYPE B 6"
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
AGGREGATE BASE COURSE, TYPE B 2" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH
AGGREGATE BASE COURSE, TYPE B 8" MIN.
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH
AGGREGATE BASE COURSE, TYPE B 6" MIN.



DATE	
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CHECKED	
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NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE	
NOTATIONS	
CHKD	

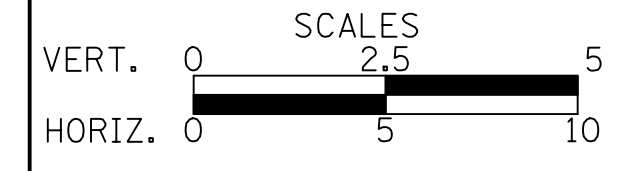
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SURVEYED	
PLOTTED	
CHECKED	
B.M. NOTED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE	
NOTATIONS	
CHKD	



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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

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DRIVEWAY DETAILS
FAIRVIEW AVENUE - STA. 298 + 63.2



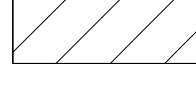

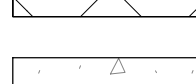
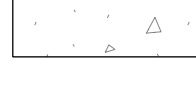


SHEET NO. 67 OF 70 SHEETS STA. TO STA.

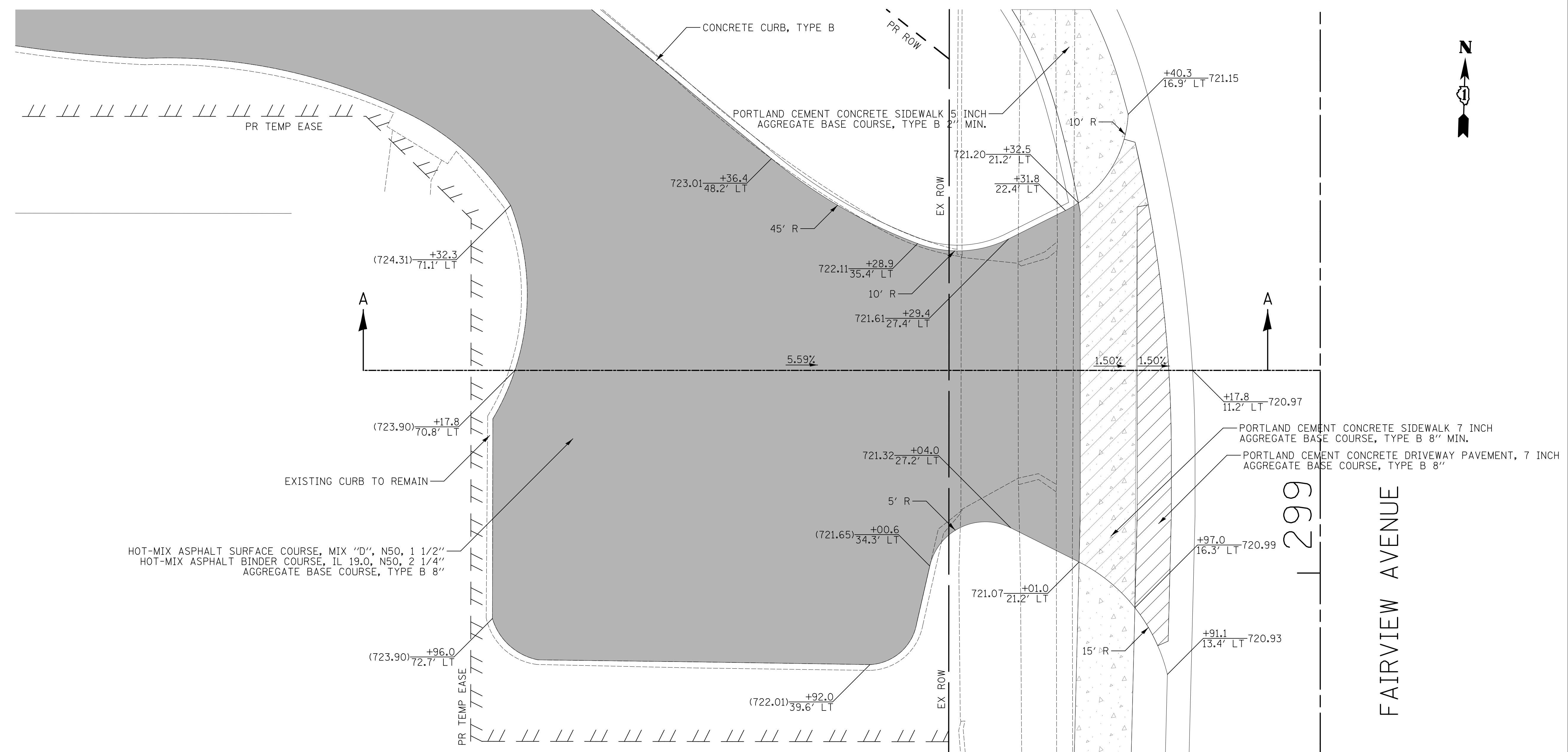
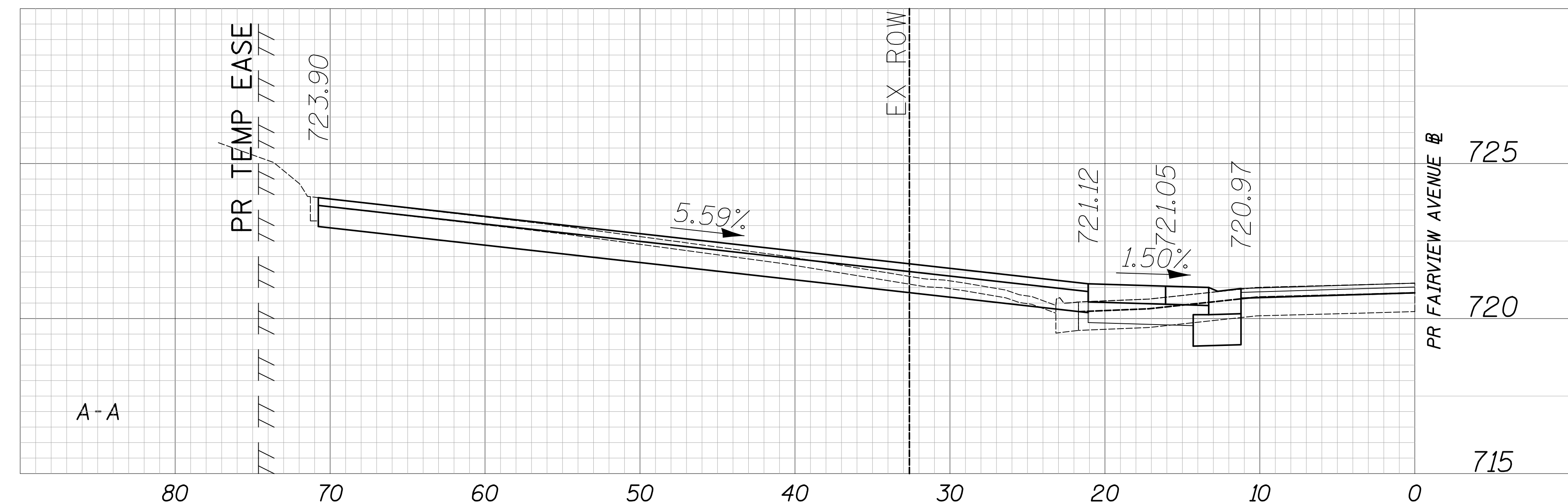
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	217
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTE BOOK NO.	
ADD. FILE NAME	

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NO. OF WAY CHECKED	
NOTE BOOK NO.	
ADD. FILE NAME	

421 55TH STREET
PIN: 0917203005

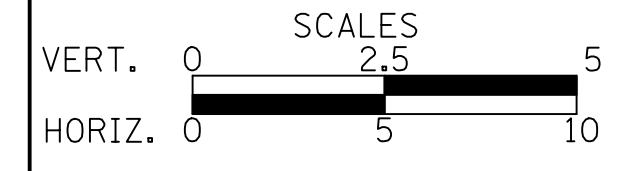
- LEGEND**
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 -  HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 -  AGGREGATE BASE COURSE, TYPE B 8"
 -  PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 -  PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 -  PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 -  PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 -  PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.



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DATE - 09/06/2018	REVISED -

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DEPARTMENT OF TRANSPORTATION




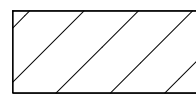
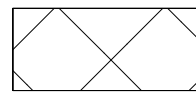
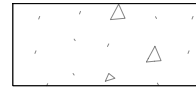
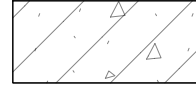

DRIVEWAY DETAILS
FAIRVIEW AVENUE - STA. 299 + 17.8

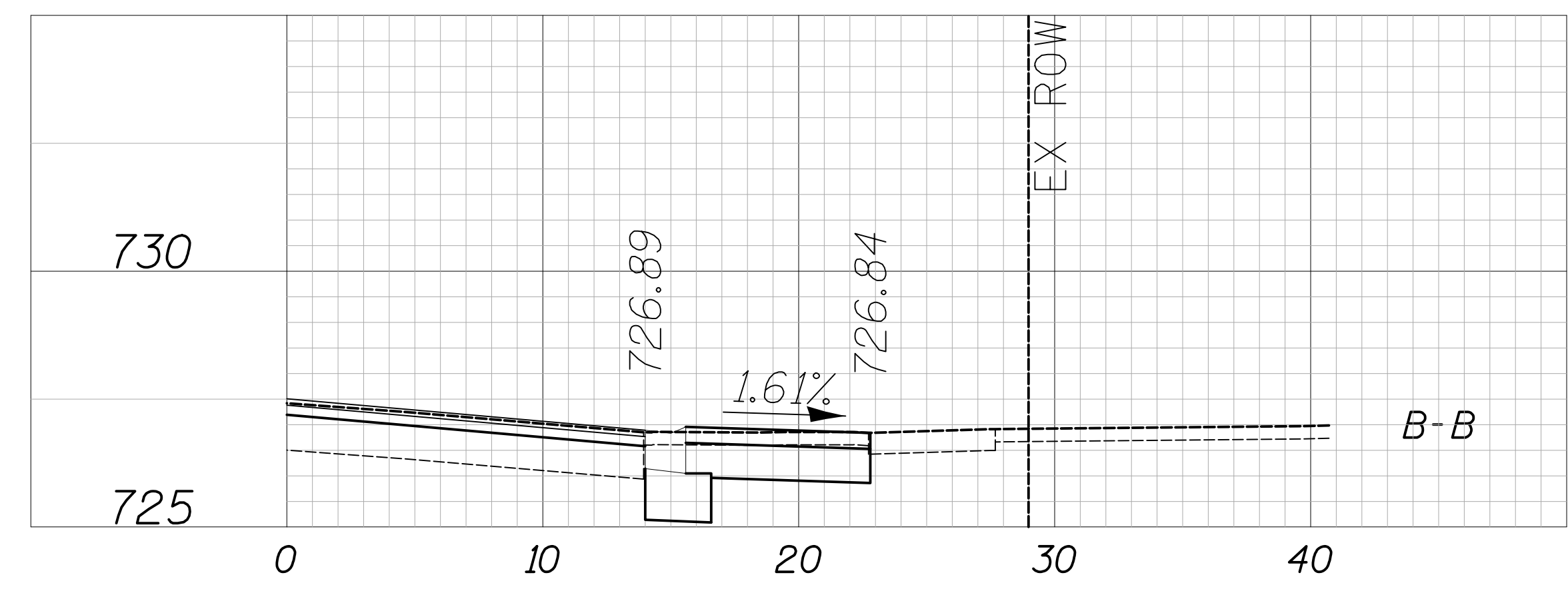
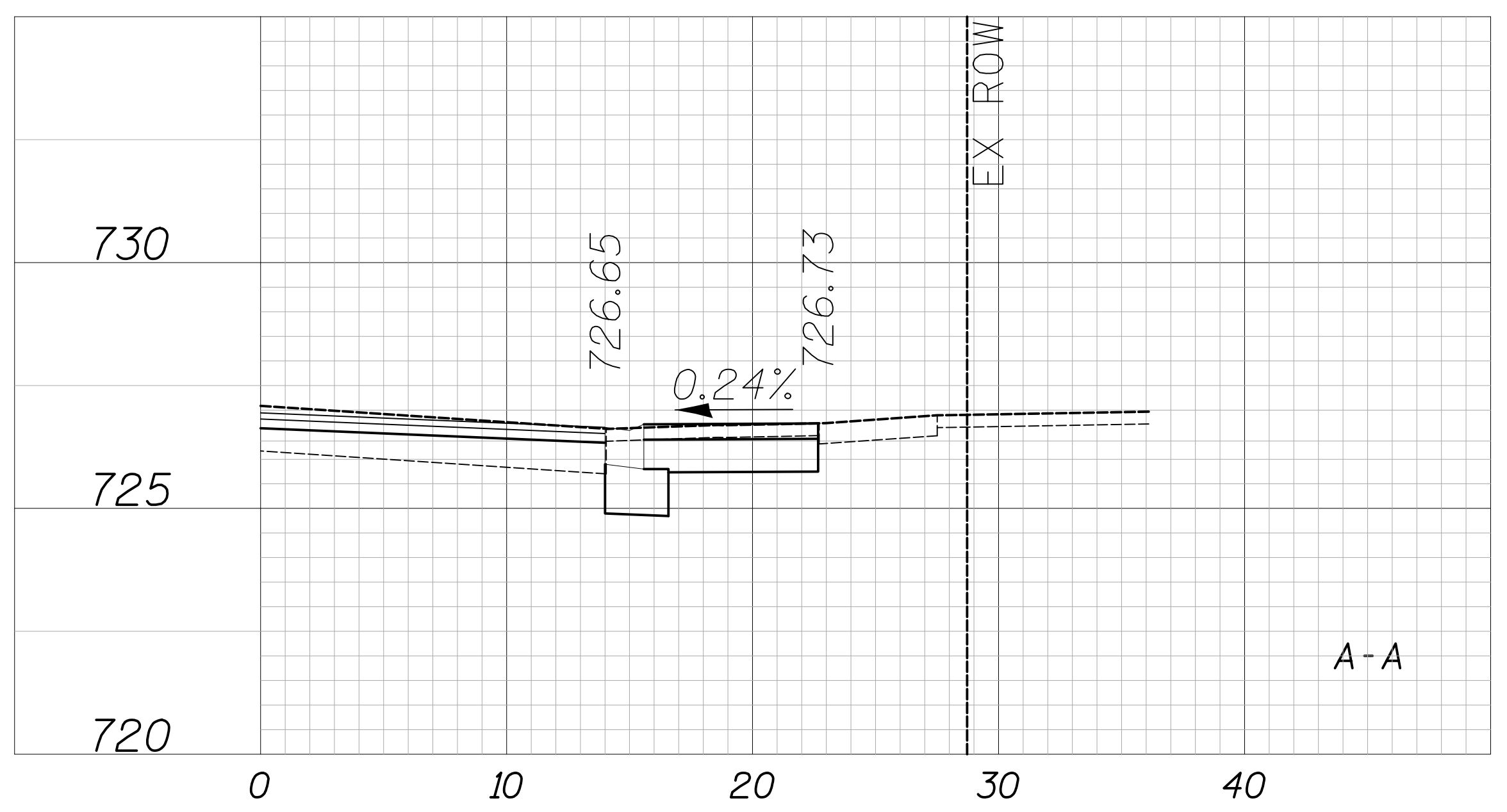
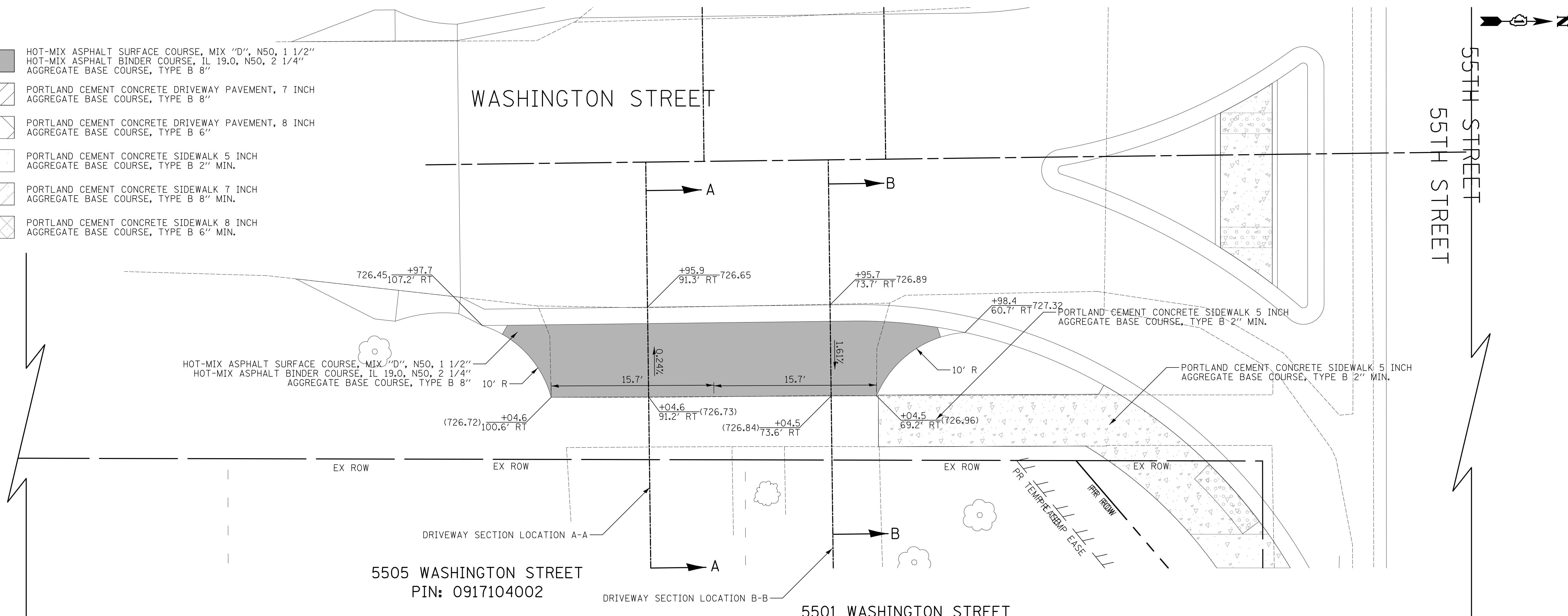
SHEET NO. 68 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	218
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
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	NO. NOTED	
	STRUCTURE NOTATIONS CHKD	

- LEGEND**
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4" AGGREGATE BASE COURSE, TYPE B 8"
 -  PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH AGGREGATE BASE COURSE, TYPE B 8"
 -  PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH AGGREGATE BASE COURSE, TYPE B 6"
 -  PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH AGGREGATE BASE COURSE, TYPE B 2" MIN.
 -  PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH AGGREGATE BASE COURSE, TYPE B 8" MIN.
 -  PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH AGGREGATE BASE COURSE, TYPE B 6" MIN.

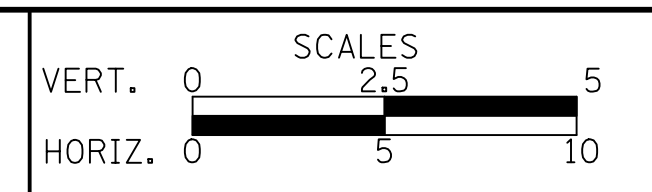


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



DRIVEWAY DETAILS
WASHINGTON STREET - 91.3' RIGHT OF 55TH STREET

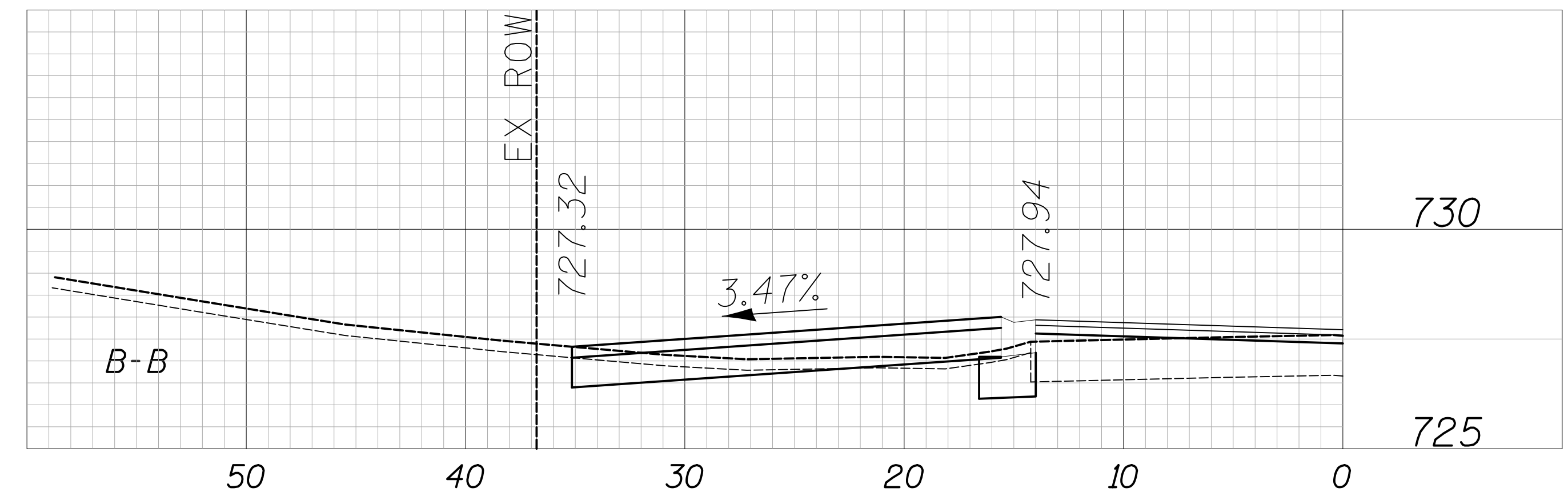
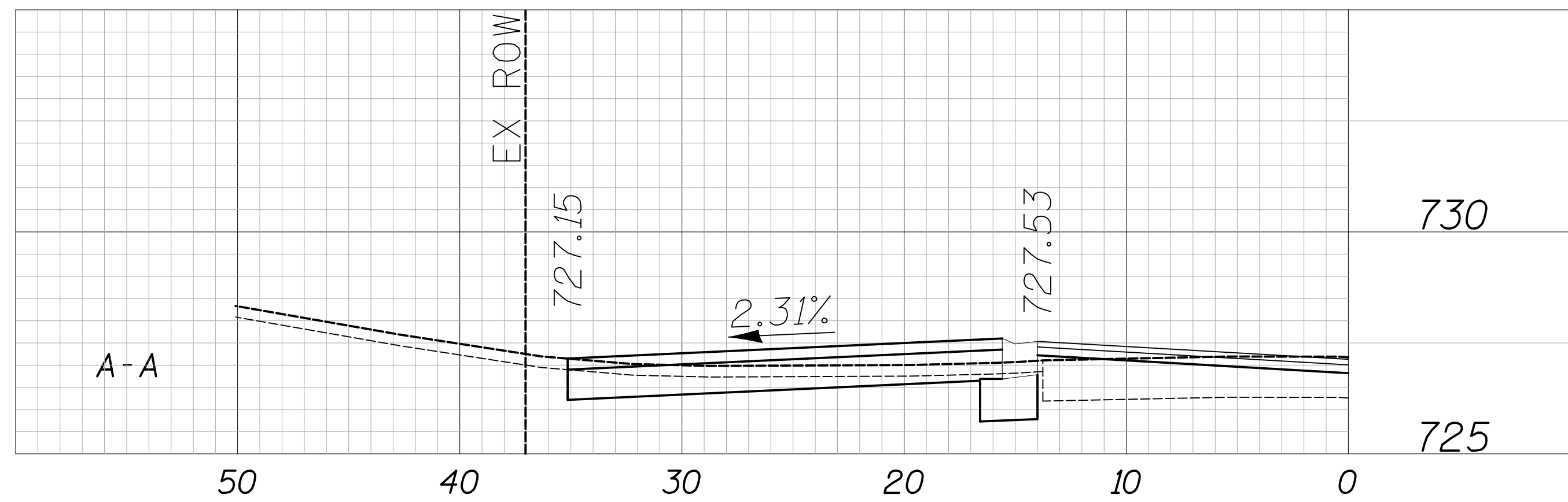
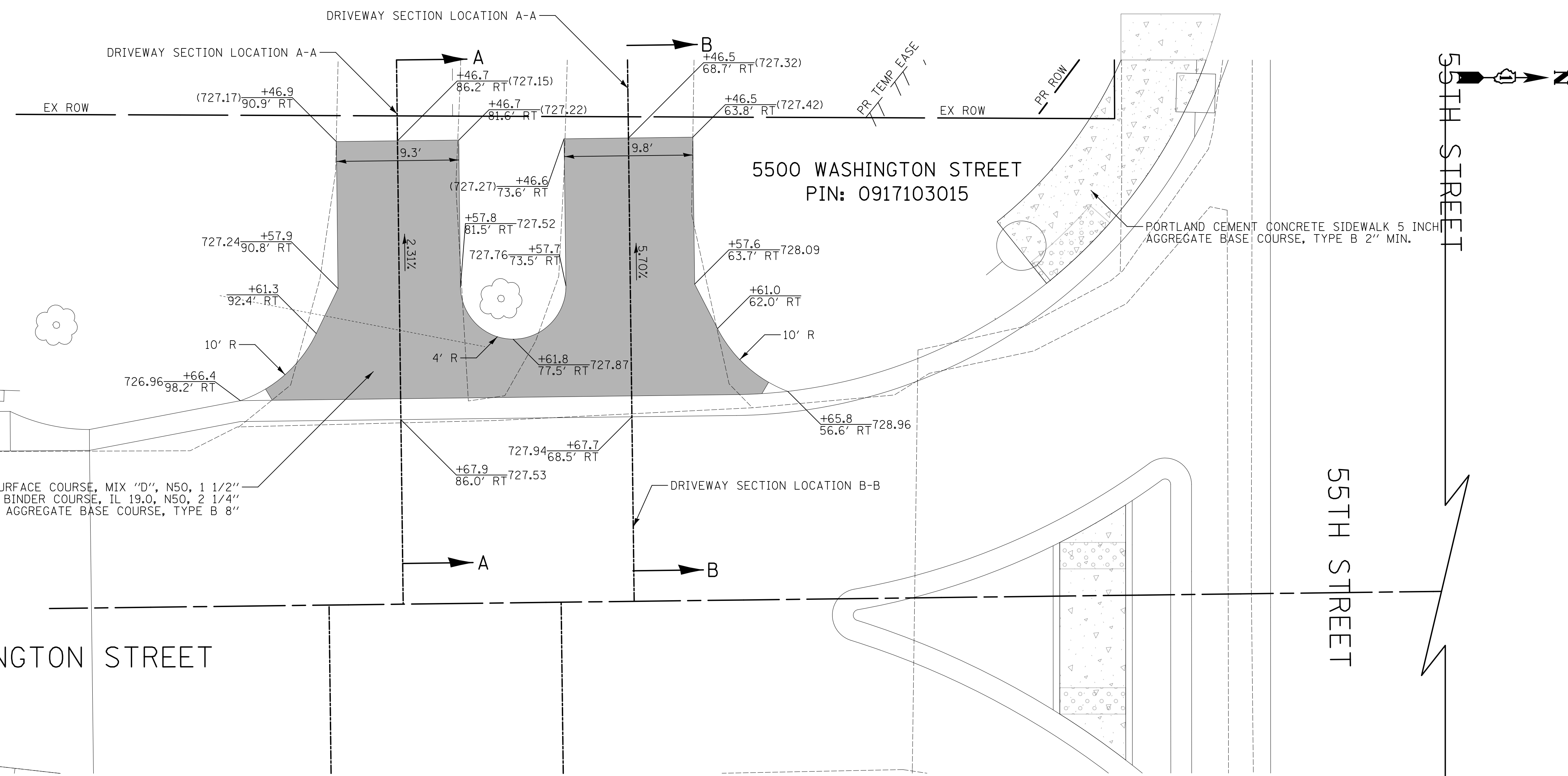
SHEET NO. 69 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	219
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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NO. _____	
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PROFILE	
NO. _____	
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SURVEYED	
PLOTTED	
CHECKED	
PT. OF WAY CHECKED	
NO. _____	
PROFILE	
NO. _____	

- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
 - HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/4"
 - AGGREGATE BASE COURSE, TYPE B 8"
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH
 - PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH
 - PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
 - PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH
 - PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH



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DATE - 09/06/2018

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

VERT. 0 2.5 5
HORIZ. 0 5 10

SCALES

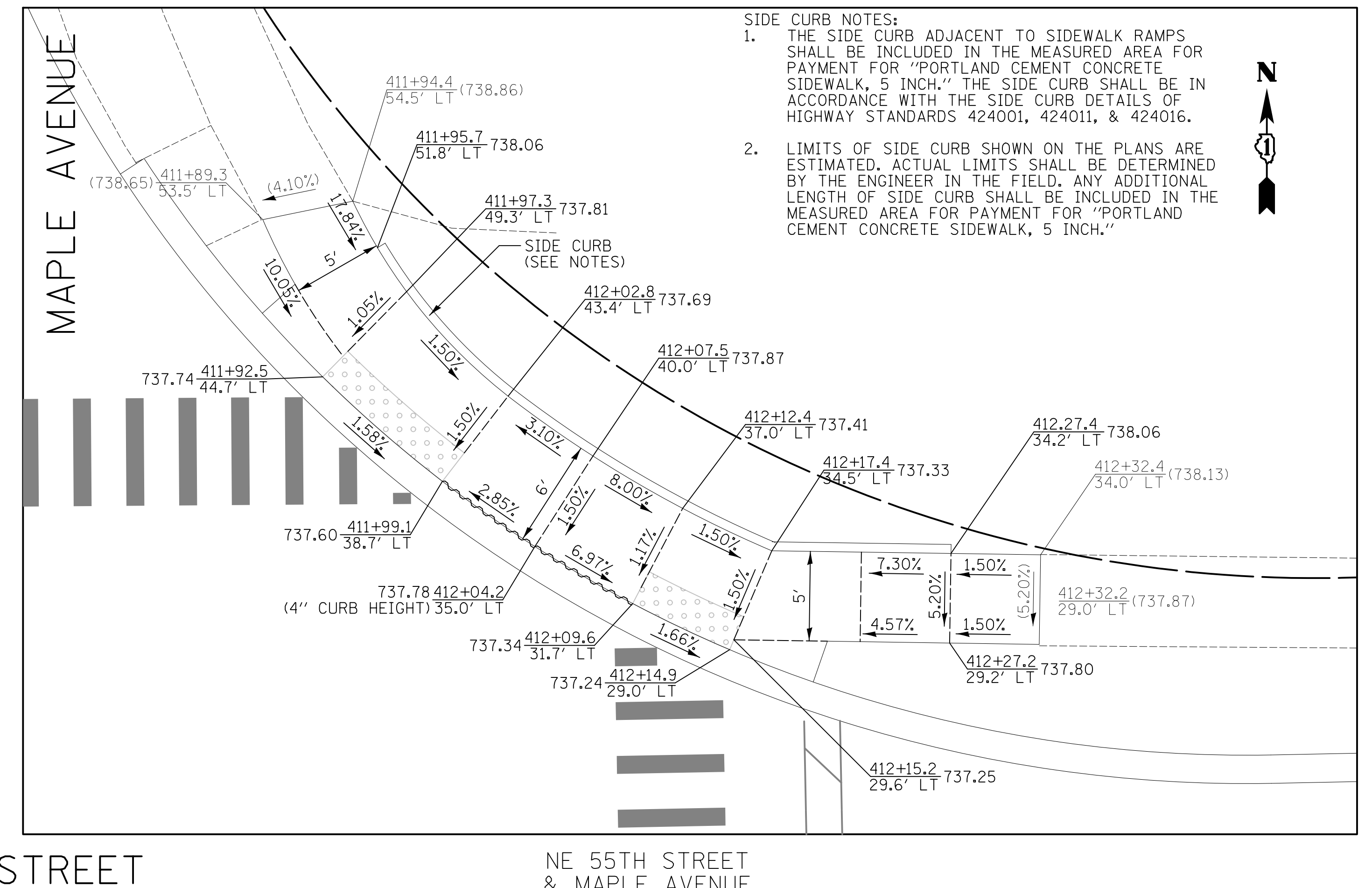
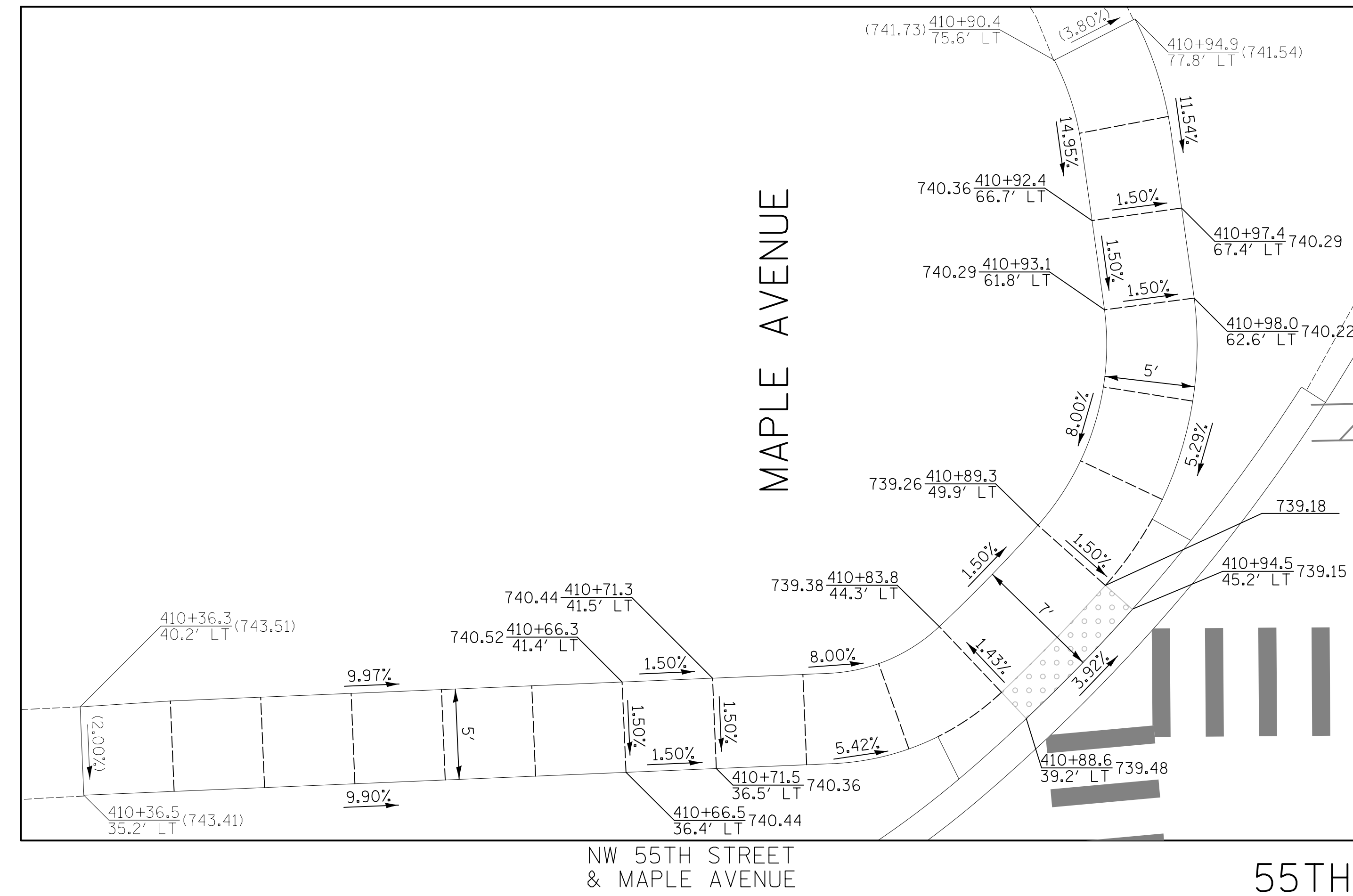
**DRIVEWAY DETAILS
WASHINGTON STREET - 86.0' RIGHT OF 55TH STREET**

SHEET NO. 70 OF 70 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	220
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

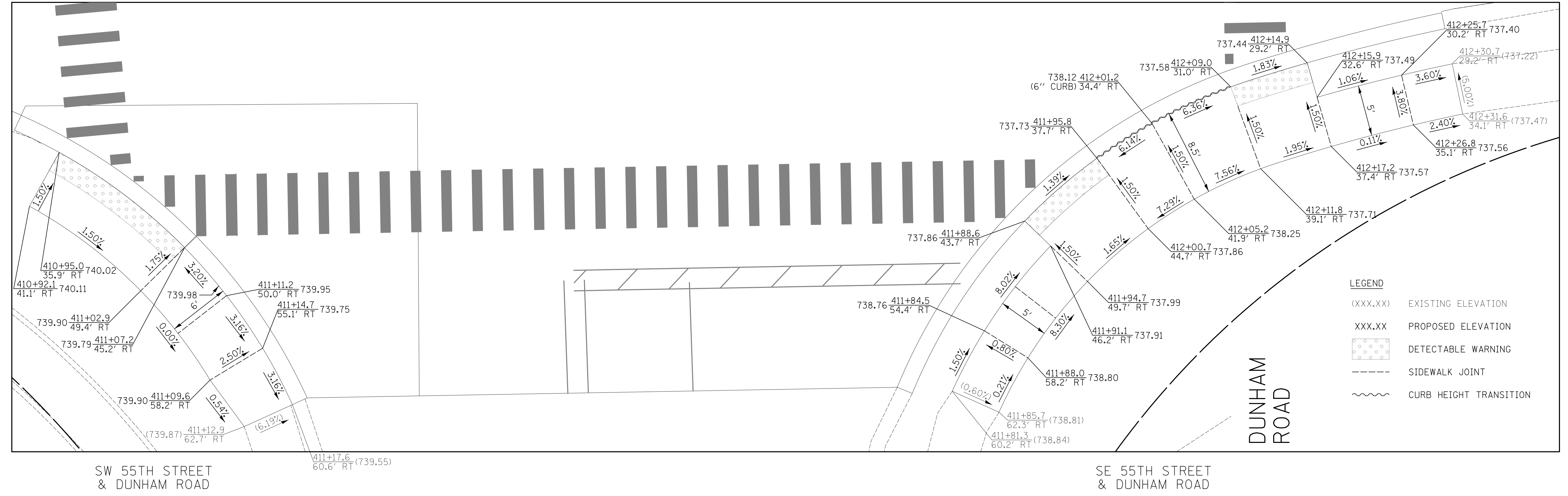
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	



SIDE CURB NOTES:

1. THE SIDE CURB ADJACENT TO SIDEWALK RAMP SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH." THE SIDE CURB SHALL BE IN ACCORDANCE WITH THE SIDE CURB DETAILS OF HIGHWAY STANDARDS 424001, 424011, & 424016.
2. LIMITS OF SIDE CURB SHOWN ON THE PLANS ARE ESTIMATED. ACTUAL LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ANY ADDITIONAL LENGTH OF SIDE CURB SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH."



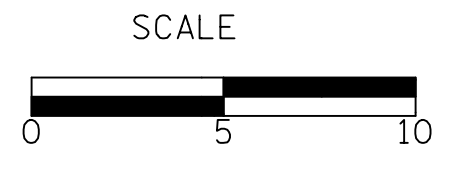
LEGEND

(XXX.XX)	EXISTING ELEVATION
XXXX.XX	PROPOSED ELEVATION
[Dotted Pattern]	DETECTABLE WARNING
[Dashed Line]	SIDEWALK JOINT
[Wavy Line]	CURB HEIGHT TRANSITION

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CHECKED -	JRV	REVISED -	
DATE	09/06/2018	REVISED -	

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DEPARTMENT OF TRANSPORTATION

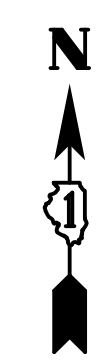


SIDEWALK RAMP DETAILS

SHEET NO. 1 OF 23 SHEETS

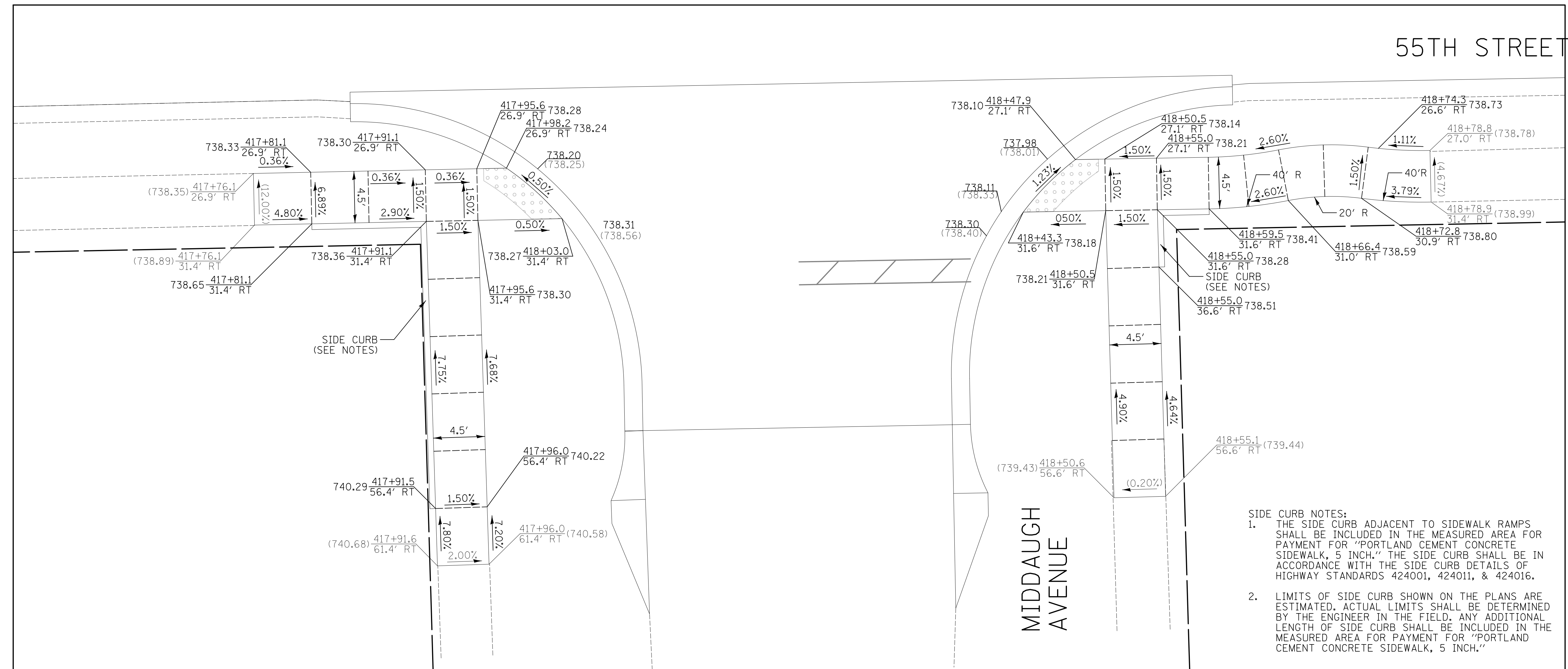
STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	221
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
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	NO. OF WAY CHECKED	
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	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	STRUCTURE NOTATIONS CHKD	



SW 55TH STREET & MIDDAUGH AVENUE

SE 55TH STREET & MIDDAUGH AVENUE

- SIDE CURB NOTES:**
- THE SIDE CURB ADJACENT TO SIDEWALK RAMPS SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH." THE SIDE CURB SHALL BE IN ACCORDANCE WITH THE SIDE CURB DETAILS OF HIGHWAY STANDARDS 424001, 424011, & 424016.
 - LIMITS OF SIDE CURB SHOWN ON THE PLANS ARE ESTIMATED. ACTUAL LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ANY ADDITIONAL LENGTH OF SIDE CURB SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH."

LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
----	SIDEWALK JOINT



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DRAWN -	TGB	REVISED -	
CHECKED -	JRV	REVISED -	
DATE -	09/06/2018	REVISED -	

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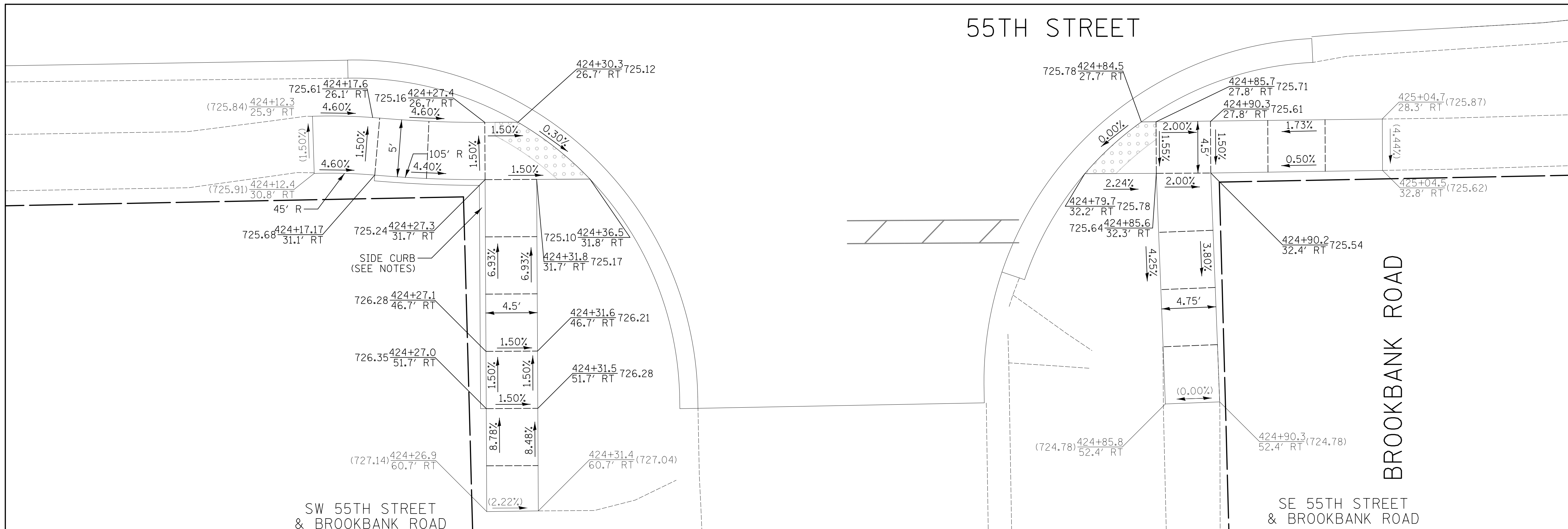
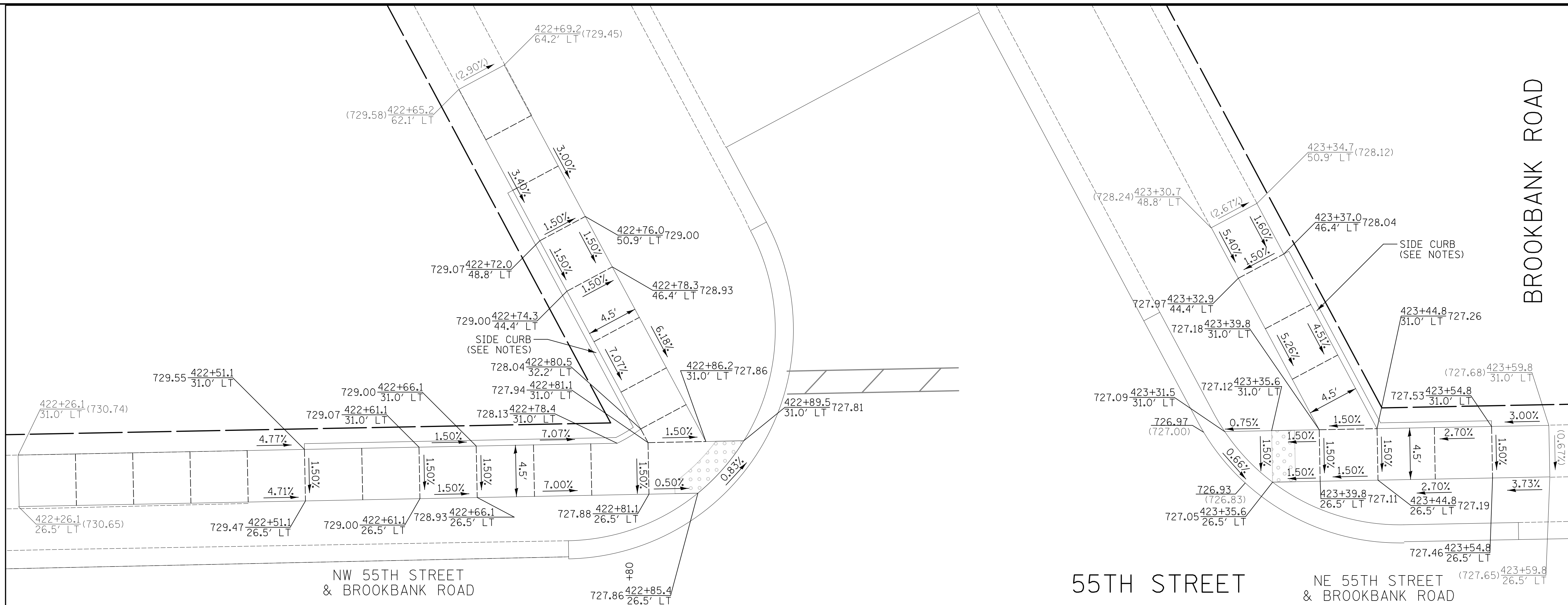
SIDEWALK RAMP DETAILS

SHEET NO. 2 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	222
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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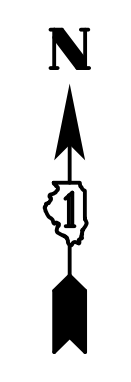
PROFILE	SURVEYED	DATE
	PLOTTED	
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	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	



- SIDE CURB NOTES:**
- THE SIDE CURB ADJACENT TO SIDEWALK RAMPS SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH." THE SIDE CURB SHALL BE IN ACCORDANCE WITH THE SIDE CURB DETAILS OF HIGHWAY STANDARDS 424001, 424011, & 424016.
 - LIMITS OF SIDE CURB SHOWN ON THE PLANS ARE ESTIMATED. ACTUAL LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ANY ADDITIONAL LENGTH OF SIDE CURB SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH."

LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
---	SIDEWALK JOINT



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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

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DEPARTMENT OF TRANSPORTATION



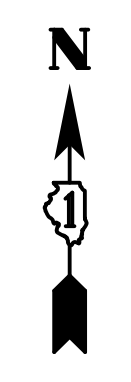
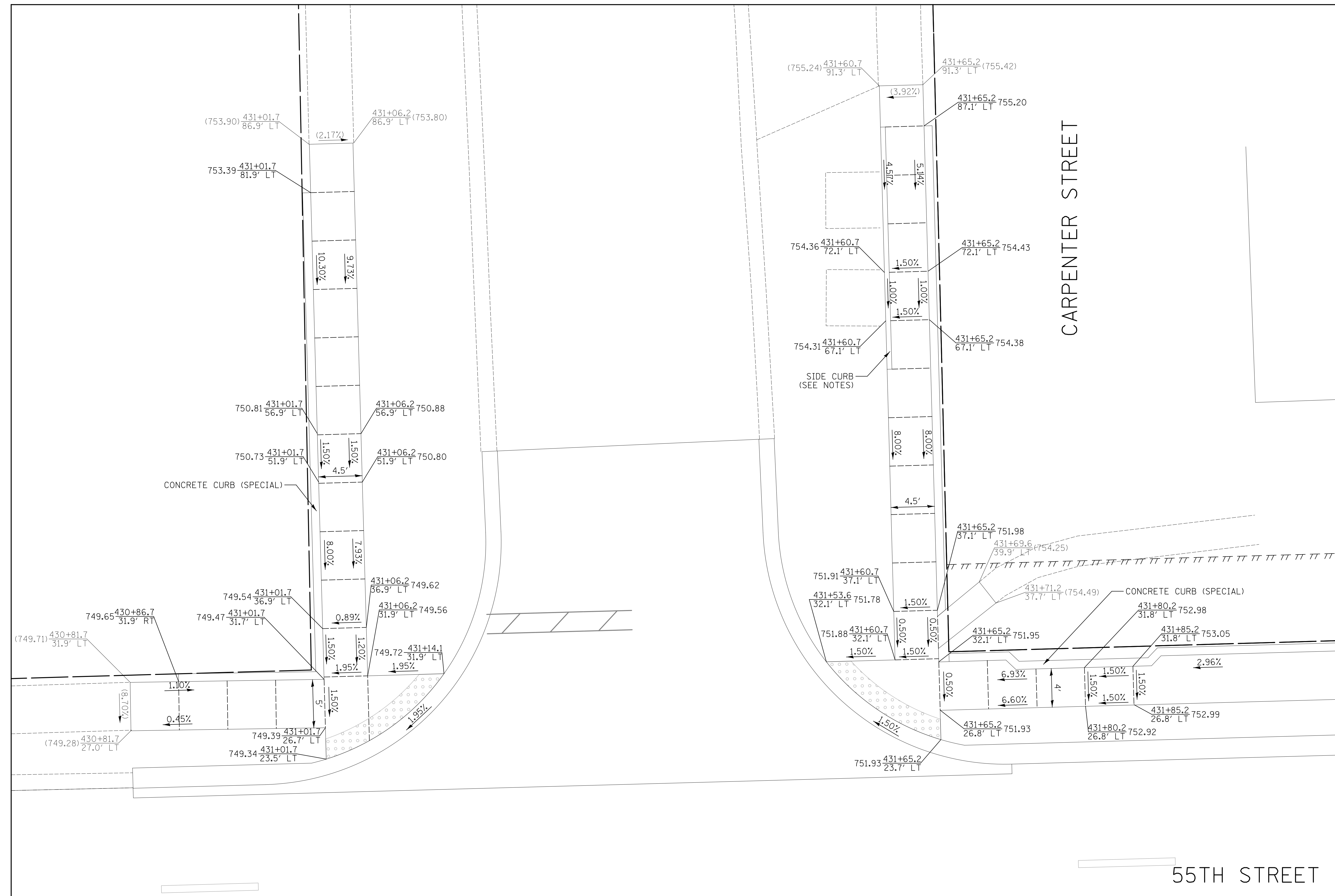
SIDEWALK RAMP DETAILS

SHEET NO. 3 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	223
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTE BOOK	
NO.	
STRUCTURE NOTATIONS CHKD	



- SIDE CURB NOTES:**
1. THE SIDE CURB ADJACENT TO SIDEWALK RAMPS SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH." THE SIDE CURB SHALL BE IN ACCORDANCE WITH THE SIDE CURB DETAILS OF HIGHWAY STANDARDS 424001, 424011, & 424016.
 2. LIMITS OF SIDE CURB SHOWN ON THE PLANS ARE ESTIMATED. ACTUAL LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ANY ADDITIONAL LENGTH OF SIDE CURB SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH."

LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
----	SIDEWALK JOINT

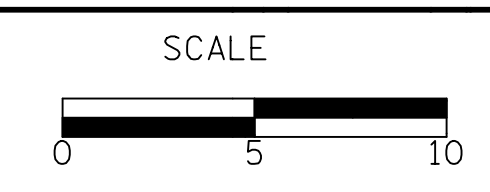
NW 55TH STREET
& CARPENTER STREET

NE 55TH STREET
& CARPENTER STREET

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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

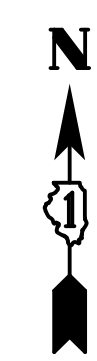
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SIDEWALK RAMP DETAILS

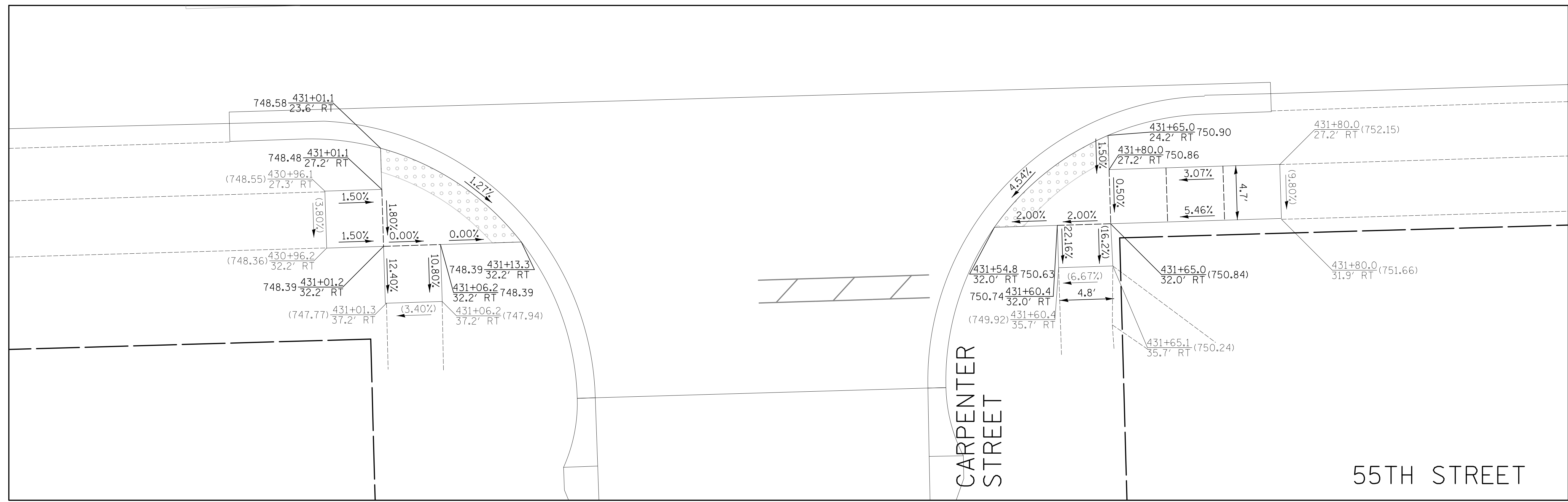
SHEET NO. 4 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	224
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



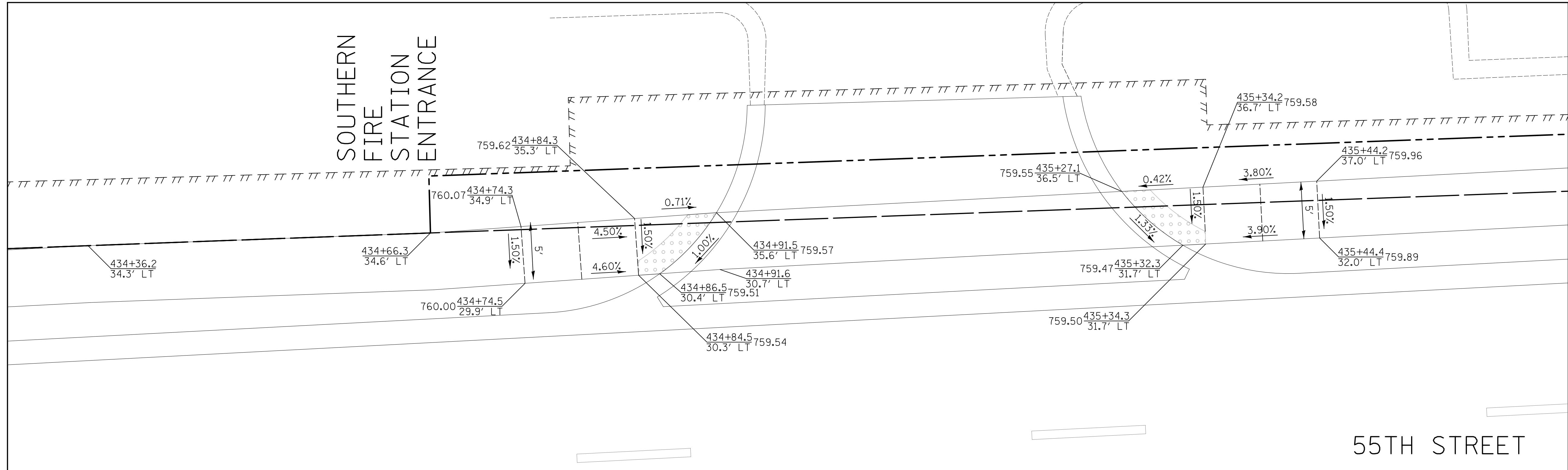
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NOTATIONS	
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NOTE BOOK	
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SW 55TH STREET & CARPENTER STREET

SE 55TH STREET & CARPENTER STREET



NW 55TH STREET & SOUTHERN FIRE STATION ENTRANCE

NE 55TH STREET & SOUTHERN FIRE STATION ENTRANCE

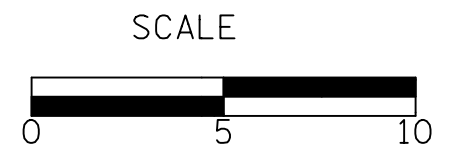
LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT

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DATE - 09/06/2018	REVISED -

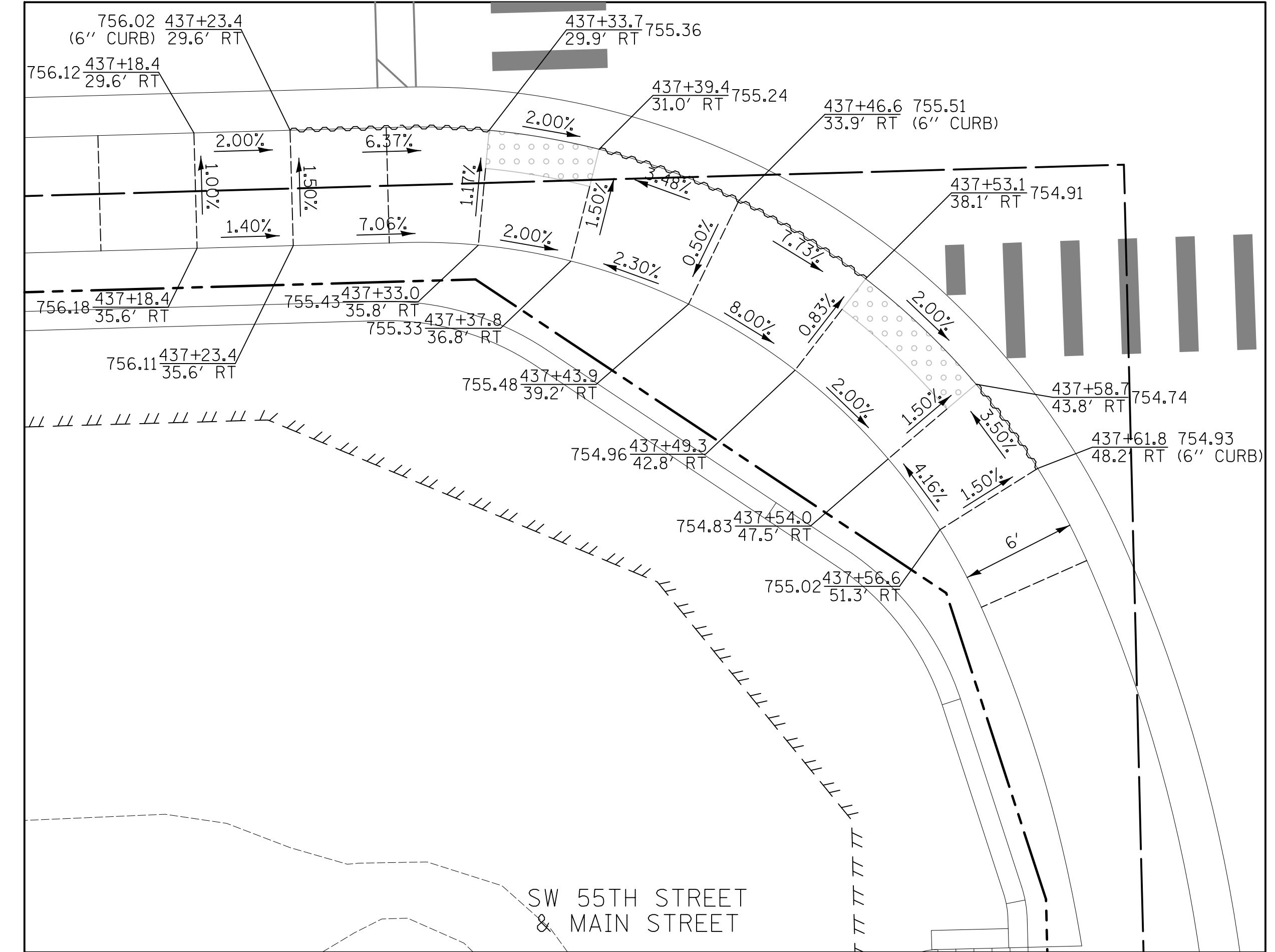
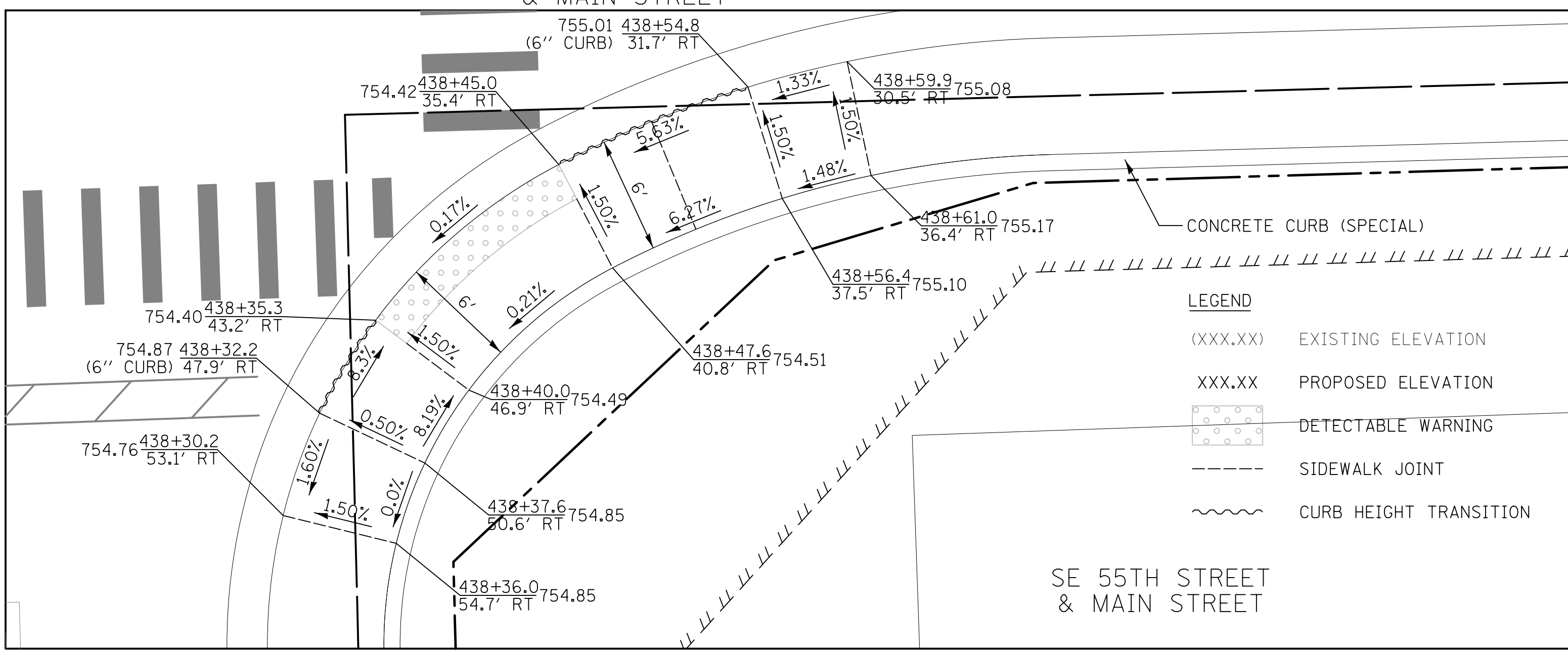
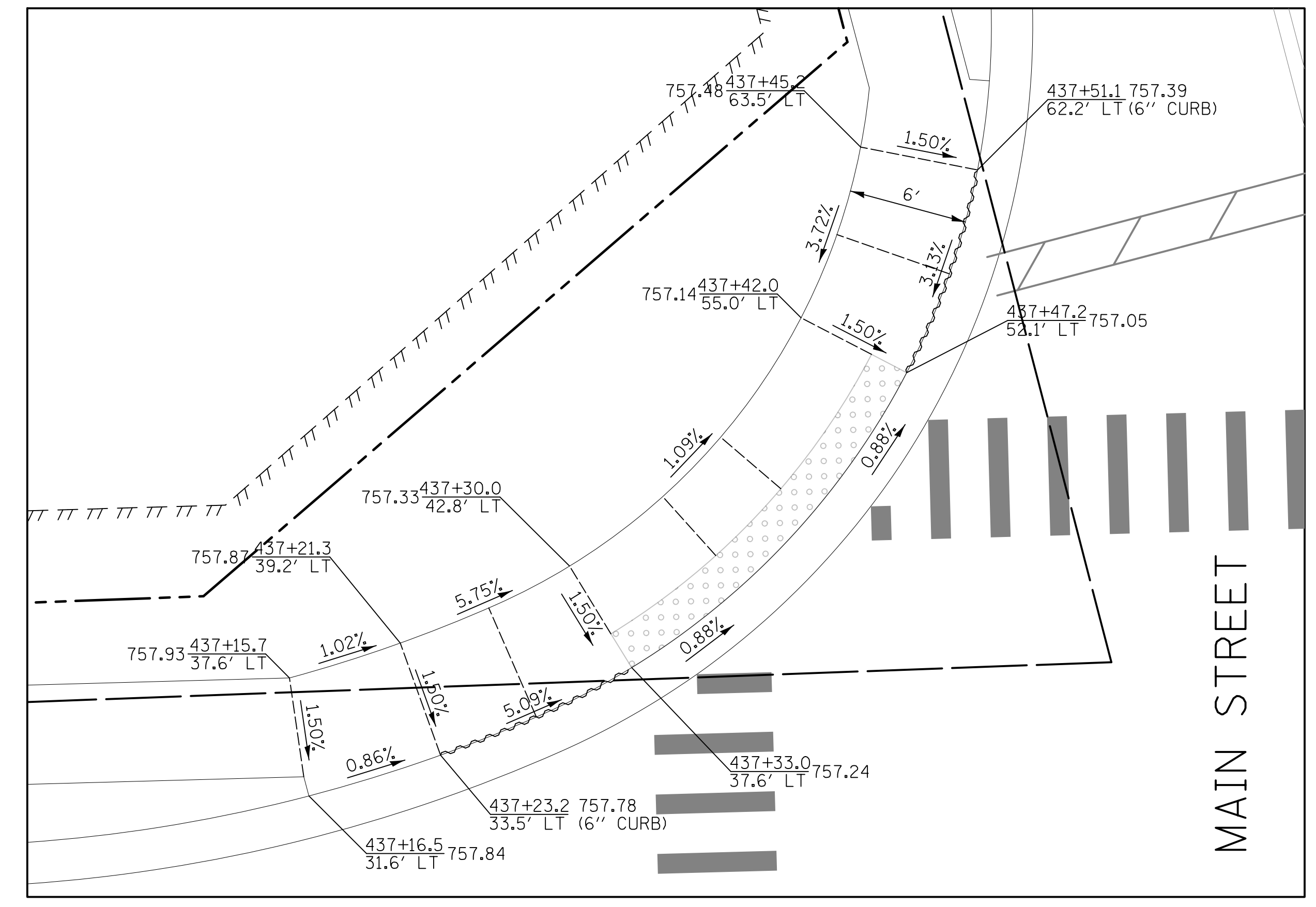
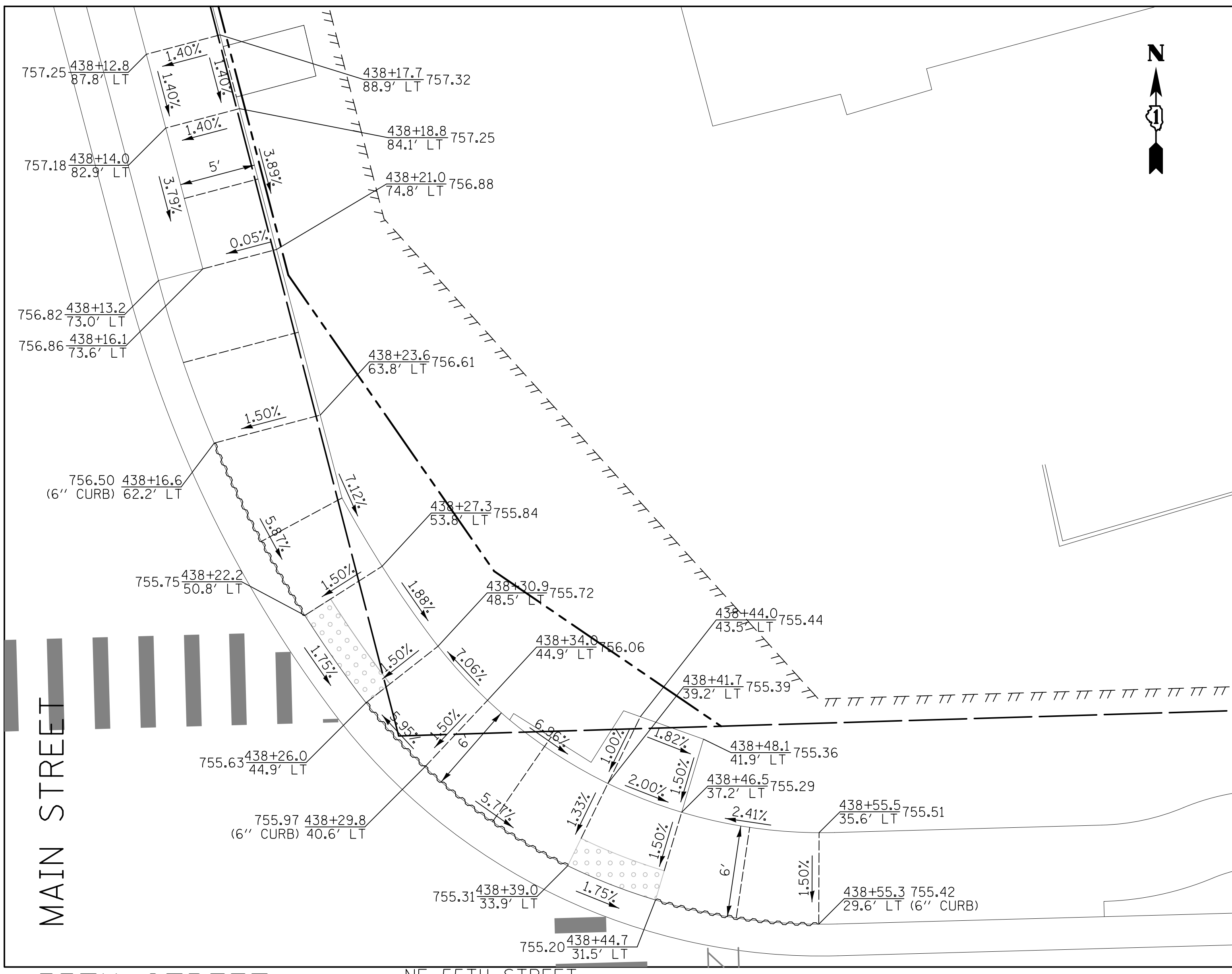
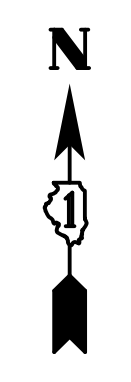
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DEPARTMENT OF TRANSPORTATION**



SIDEWALK RAMP DETAILS

SHEET NO. 5 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	225
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	DATE
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PLOTTED _____	
CHECKED _____	
NOTE BOOK NO. _____	
FILE NAME _____	

PROFILE	DATE
SURVEYED _____	
PLOTTED _____	
CHECKED _____	
NOTE BOOK NO. _____	
FILE NAME _____	

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DATE - 09/06/2018	REVISED -

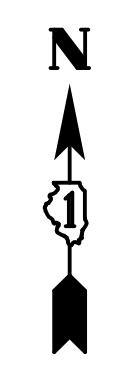
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



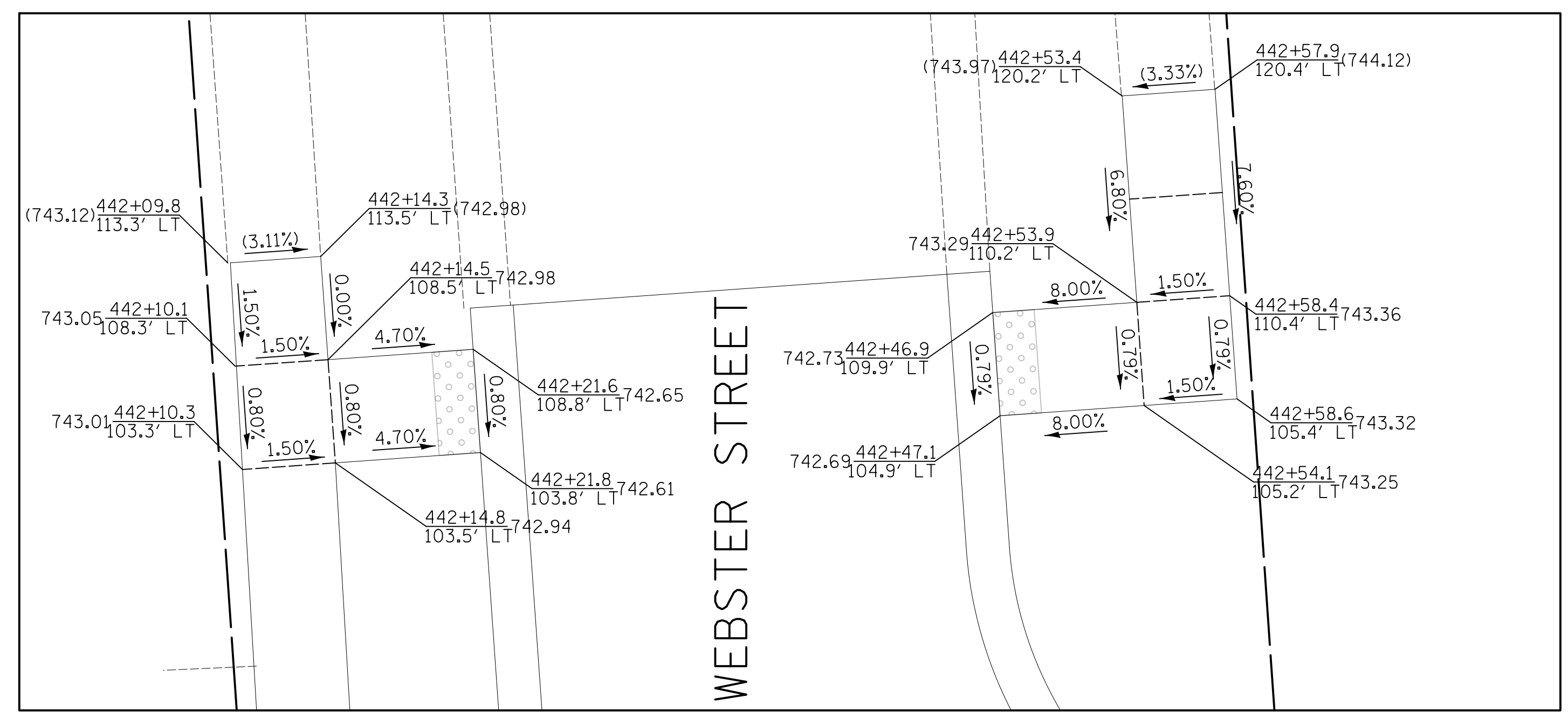
SIDEWALK RAMP DETAILS

SHEET NO. 6 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	226
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

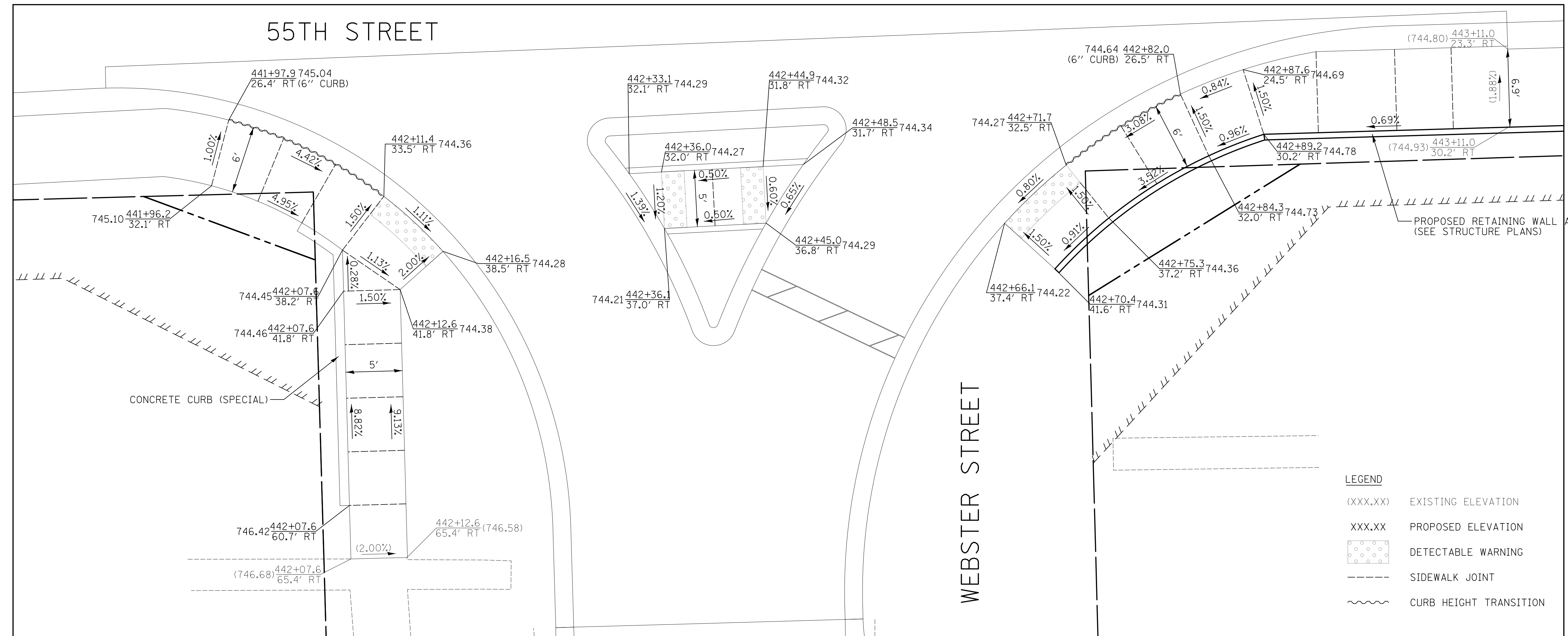


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CROSSING NORTH OF WEBSTER CUL DE SAC

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NOTE BOOK	
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STRUCTURE NOTATIONS	CHKD



SW 55TH STREET & WEBSTER STREET

ISLAND AT SOUTH WEBSTER STREET

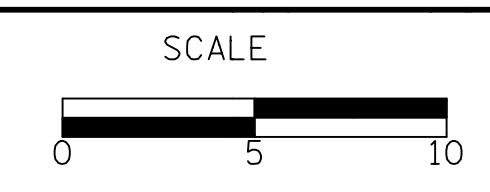
SE 55TH STREET & WEBSTER STREET



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CHECKED	- JRV	REVISED	-
DATE	- 09/06/2018	REVISED	-

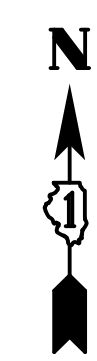
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SIDEWALK RAMP DETAILS

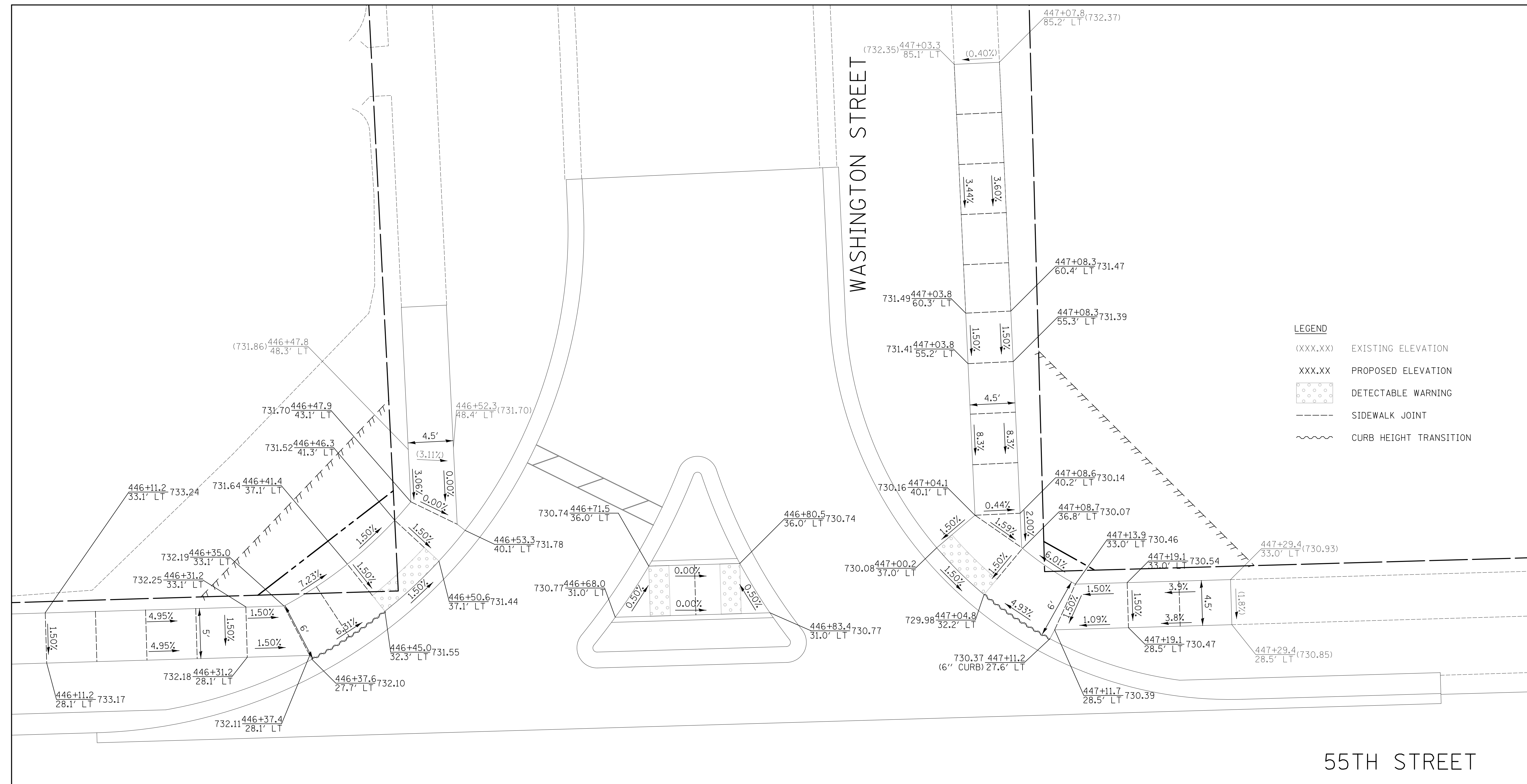
SHEET NO. 7 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	227
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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	NO. OF WAY CHECKED	
	NO.	
	DATE	



LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
- - - - -	SIDEWALK JOINT
	CURB HEIGHT TRANSITION

NW 55TH STREET
& WASHINGTON STREET

ISLAND AT
NORTH WASHINGTON STREET

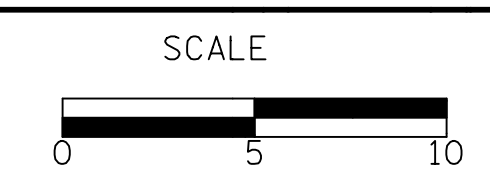
NE 55TH STREET
& WASHINGTON STREET



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DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



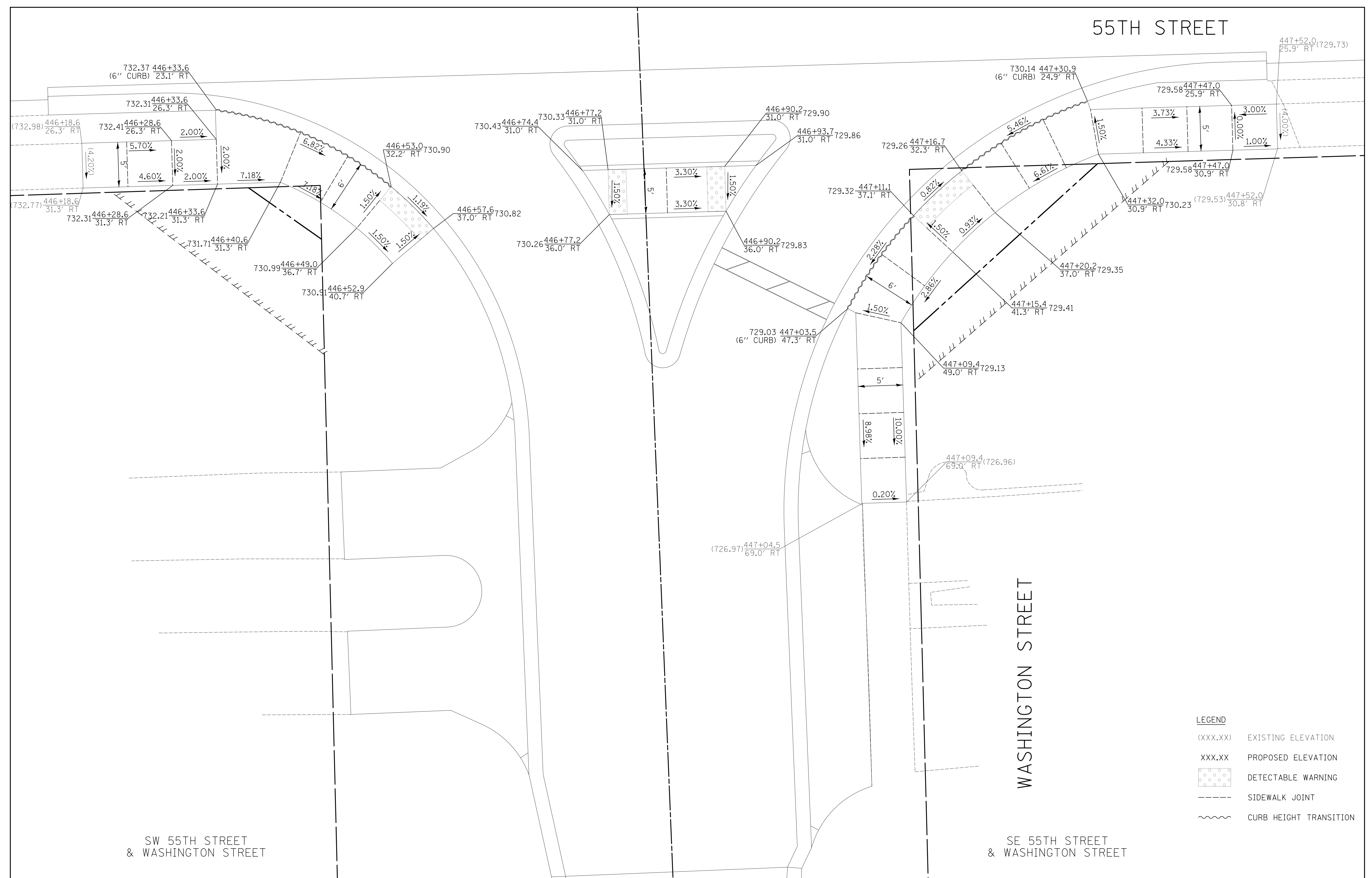
SIDEWALK RAMP DETAILS

SHEET NO. 8 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	228
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	



SW 55TH STREET
& WASHINGTON STREET

WASHINGTON STREET
SE 55TH STREET
& WASHINGTON STREET

LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT
	CURB HEIGHT TRANSITION

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DATE - 09/06/2018	REVISED -

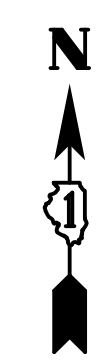
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SIDEWALK RAMP DETAILS

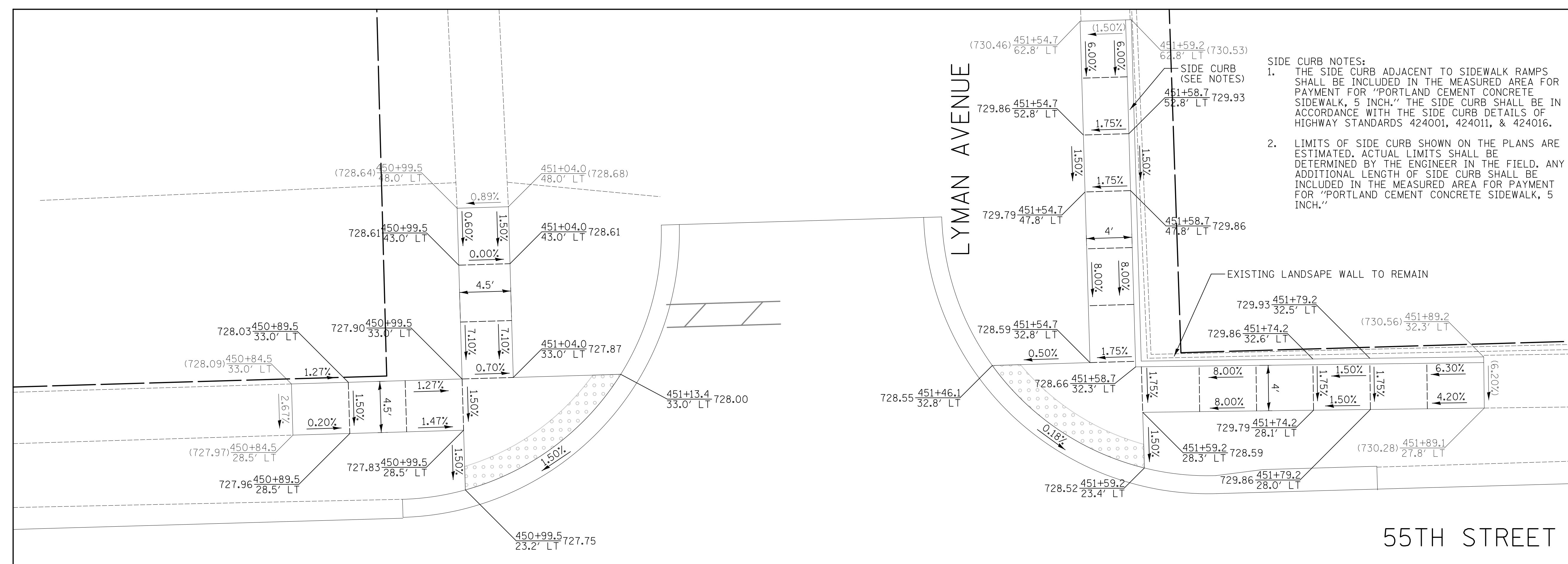
SHEET NO. 9 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	229
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
PI. OF WAY CHECKED	
NOTE BOOK NO.	
ADD. FILE NAME	

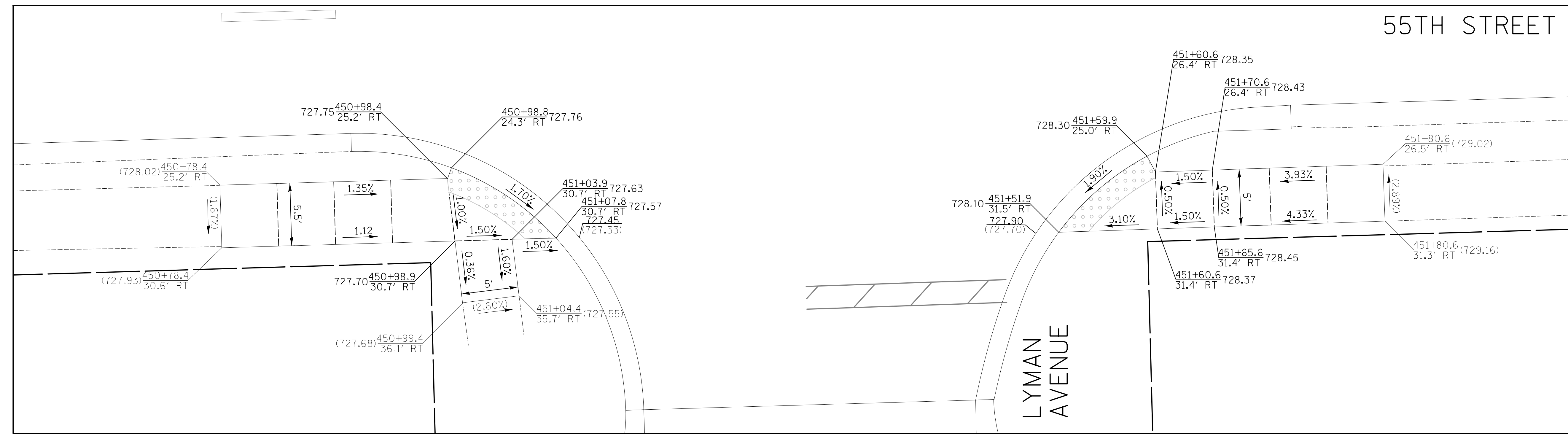
DATE	
BY	
PROFILE	
SURVEYED	
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CHECKED	
PI. OF WAY CHECKED	
NOTE BOOK NO.	
ADD. FILE NAME	



- SIDE CURB NOTES:**
1. THE SIDE CURB ADJACENT TO SIDEWALK RAMPS SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH." THE SIDE CURB SHALL BE IN ACCORDANCE WITH THE SIDE CURB DETAILS OF HIGHWAY STANDARDS 424001, 424011, & 424016.
 2. LIMITS OF SIDE CURB SHOWN ON THE PLANS ARE ESTIMATED. ACTUAL LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ANY ADDITIONAL LENGTH OF SIDE CURB SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH."

NW 55TH STREET & LYMAN AVENUE

NE 55TH STREET & LYMAN AVENUE



SW 55TH STREET & LYMAN AVENUE

SE 55TH STREET & LYMAN AVENUE

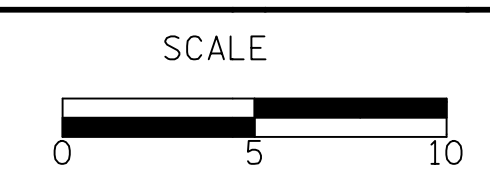
LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT

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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



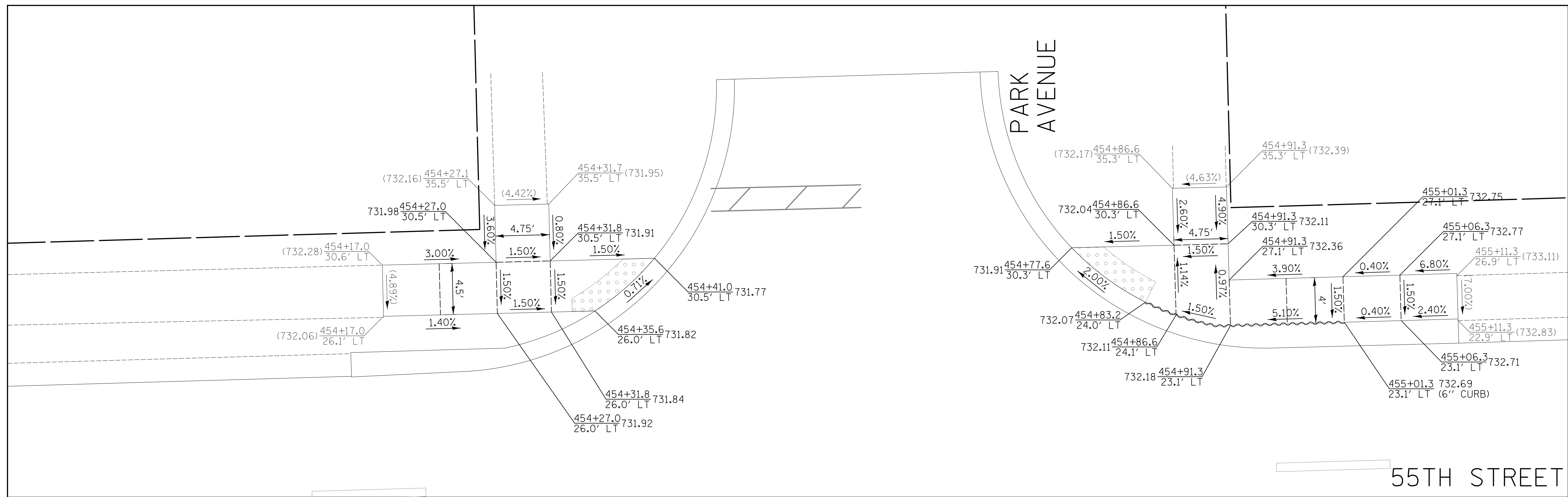
SIDEWALK RAMP DETAILS

SHEET NO. 10 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	230
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	



NW 55TH STREET
& PARK AVENUE

NE 55TH STREET
& PARK AVENUE

55TH STREET

LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
----	SIDEWALK JOINT
~~~~	CURB HEIGHT TRANSITION

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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

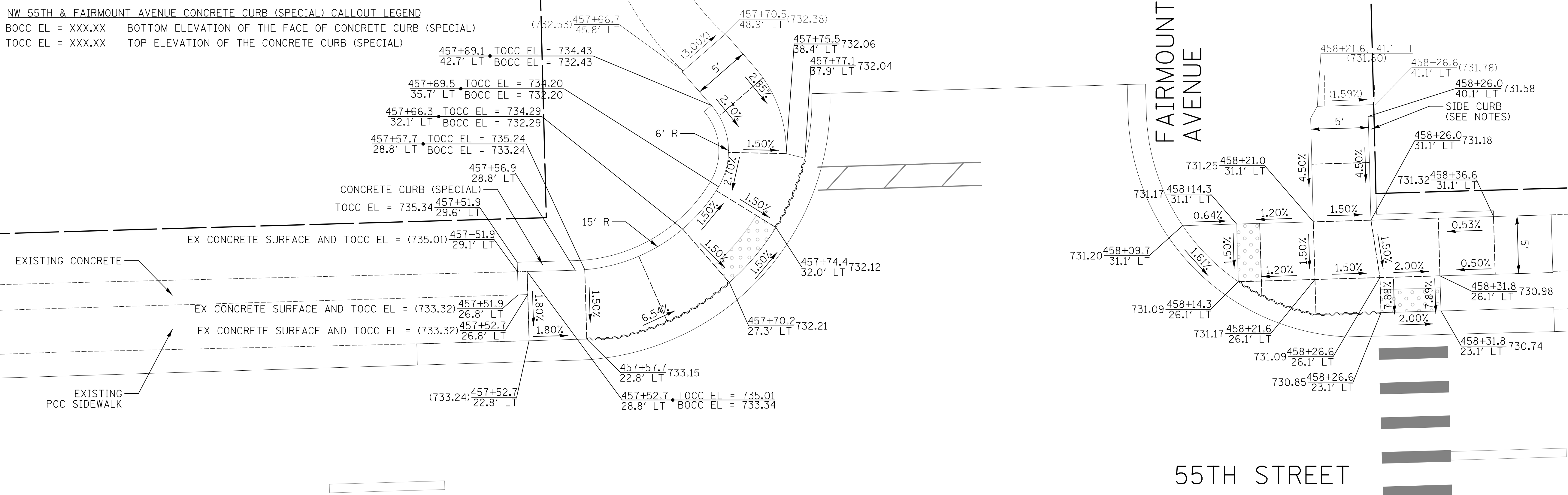
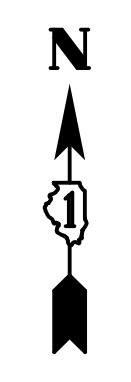
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**SIDEWALK RAMP DETAILS**

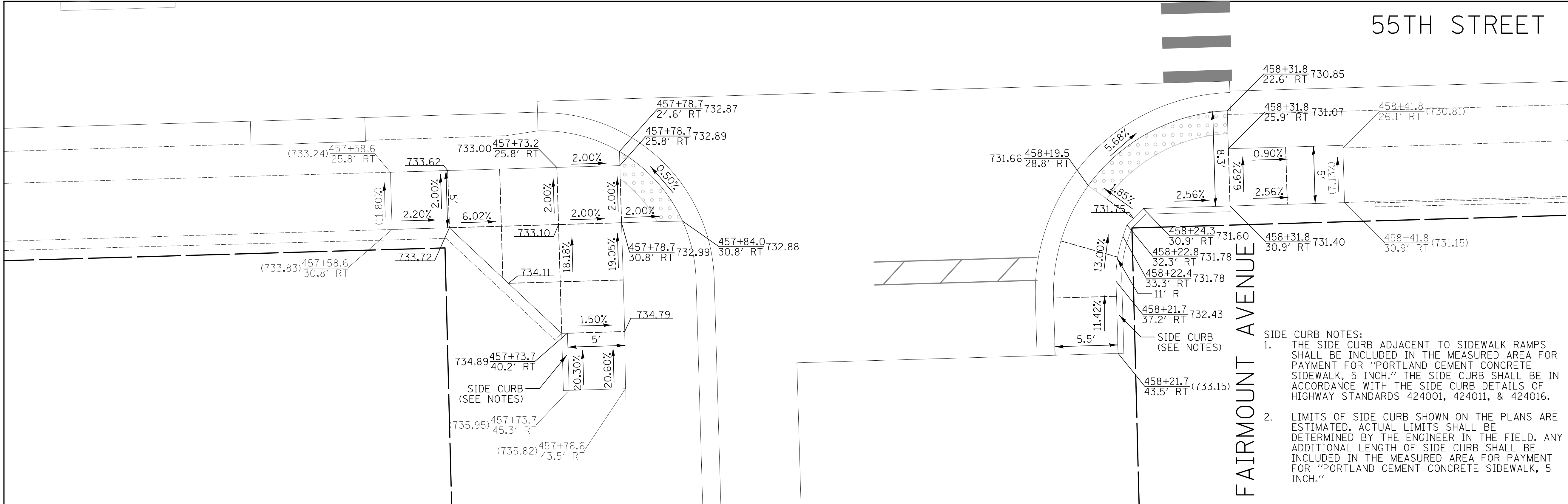
SHEET NO. 11 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	231
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NW 55TH STREET & FAIRMOUNT AVENUE

NE 55TH STREET & FAIRMOUNT AVENUE



SW 55TH STREET & FAIRMOUNT AVENUE

SE 55TH STREET & FAIRMOUNT AVENUE

**SIDE CURB NOTES:**  
 1. THE SIDE CURB ADJACENT TO SIDEWALK RAMPS SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH." THE SIDE CURB SHALL BE IN ACCORDANCE WITH THE SIDE CURB DETAILS OF HIGHWAY STANDARDS 424001, 424011, & 424016.  
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**LEGEND**

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT
	CURB HEIGHT TRANSITION

PLAN	SURVEYED	DATE
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	NO. OF WAY CHECKED	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
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	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	

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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

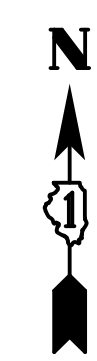


**SIDEWALK RAMP DETAILS**

SHEET NO. 12 OF 23 SHEETS STA. TO STA.

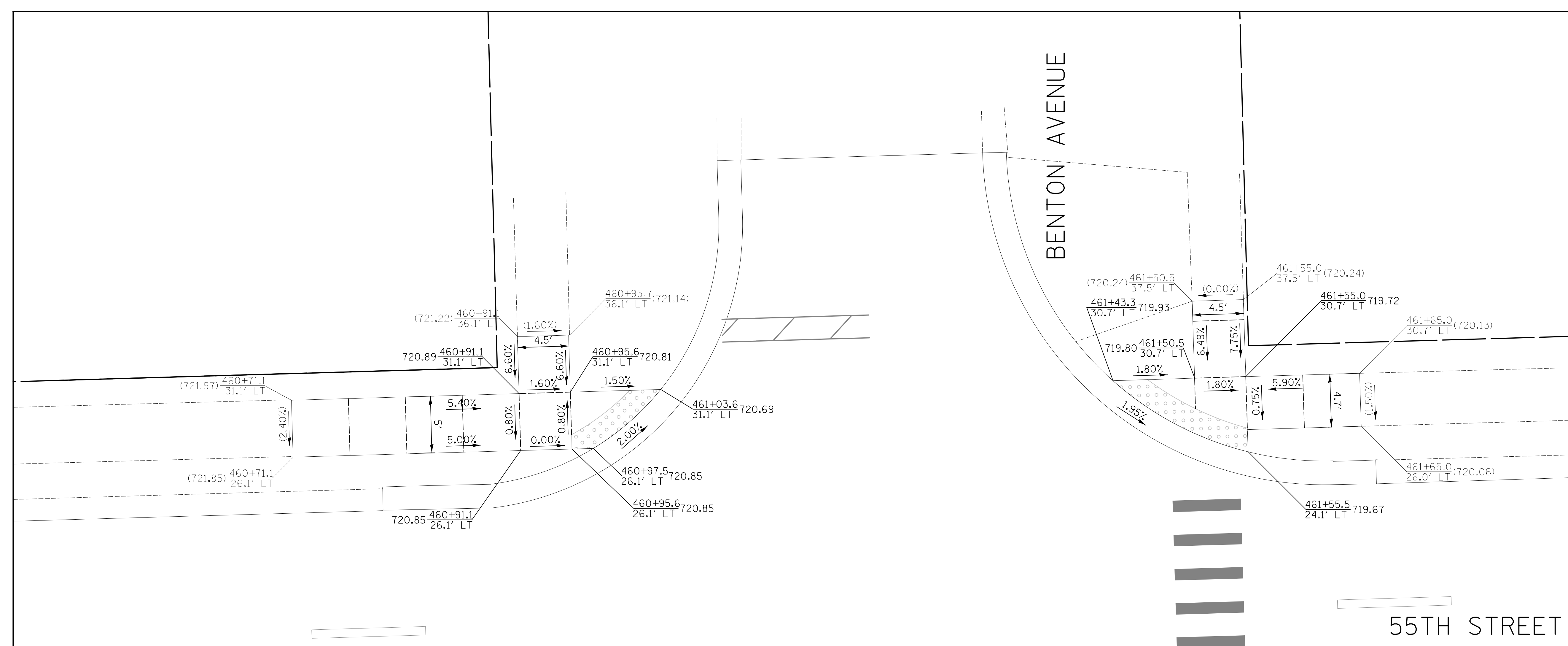
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	232
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





PLAN	SURVEYED	DATE
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	DATE	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	DATE	
	ADD. FILE NAME	



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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



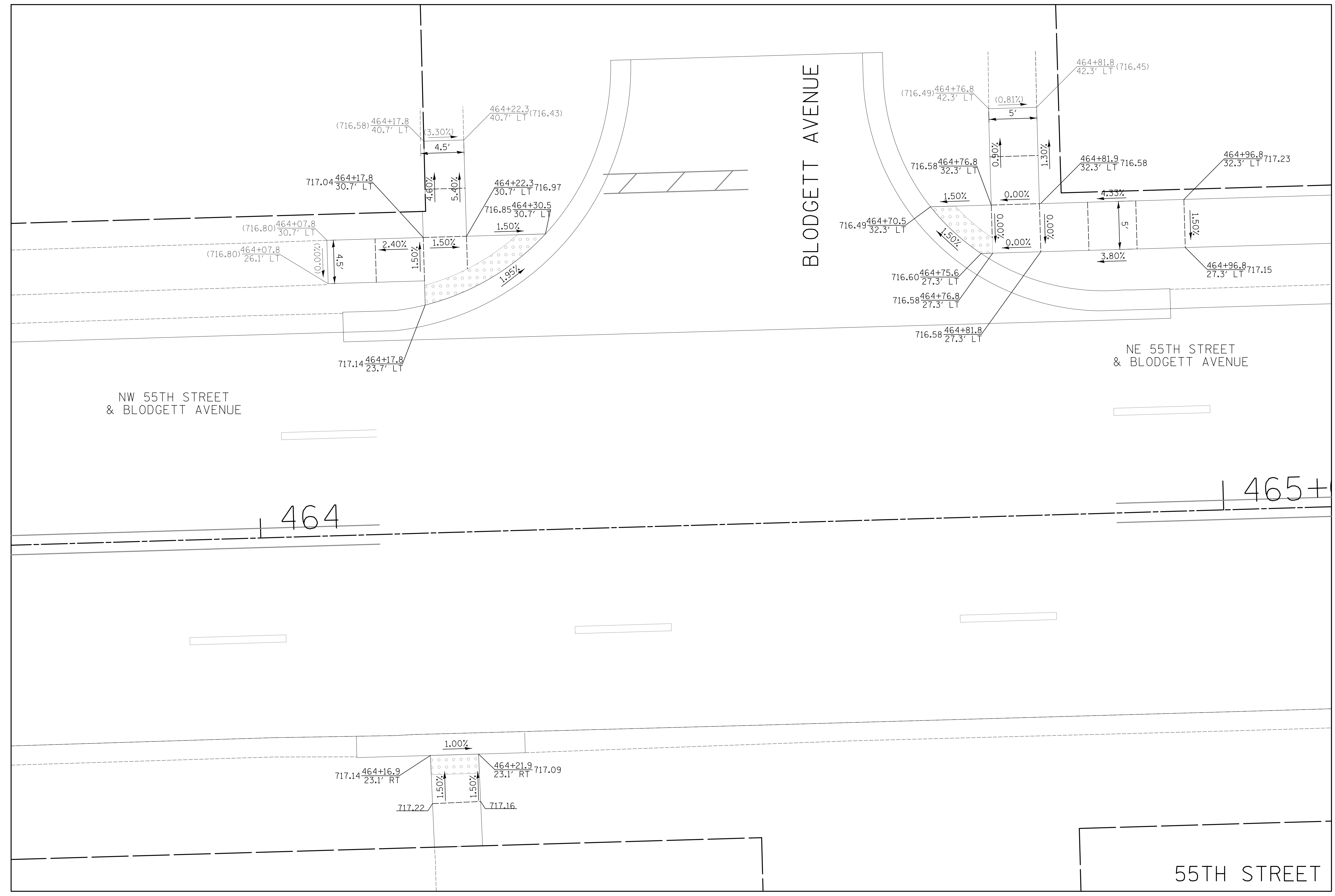
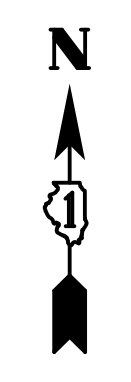
**SIDEWALK RAMP DETAILS**

SHEET NO. 13 OF 23 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	233
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	NO. OF WAY CHECKED	
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	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	



**LEGEND**

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT

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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



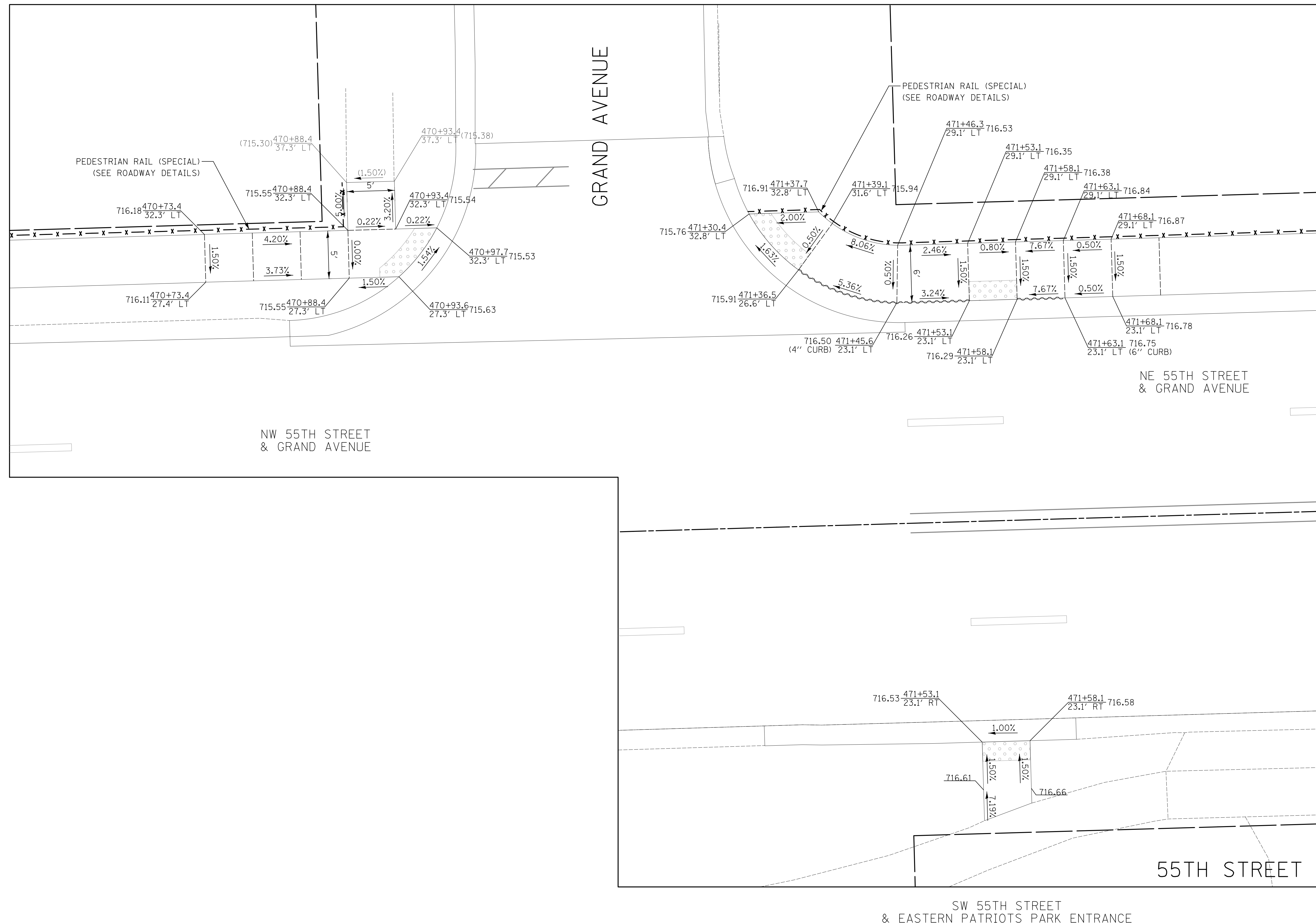
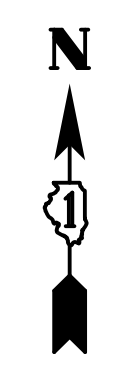
**SIDEWALK RAMP DETAILS**

SHEET NO. 14 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	234
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NO.			
NO.			
NO.			

PROFILE	SURVEYED	BY	DATE
NO.			
NO.			
NO.			



**LEGEND**

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
[Pattern]	DETECTABLE WARNING
[Dashed Line]	SIDEWALK JOINT
[Wavy Line]	CURB HEIGHT TRANSITION

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

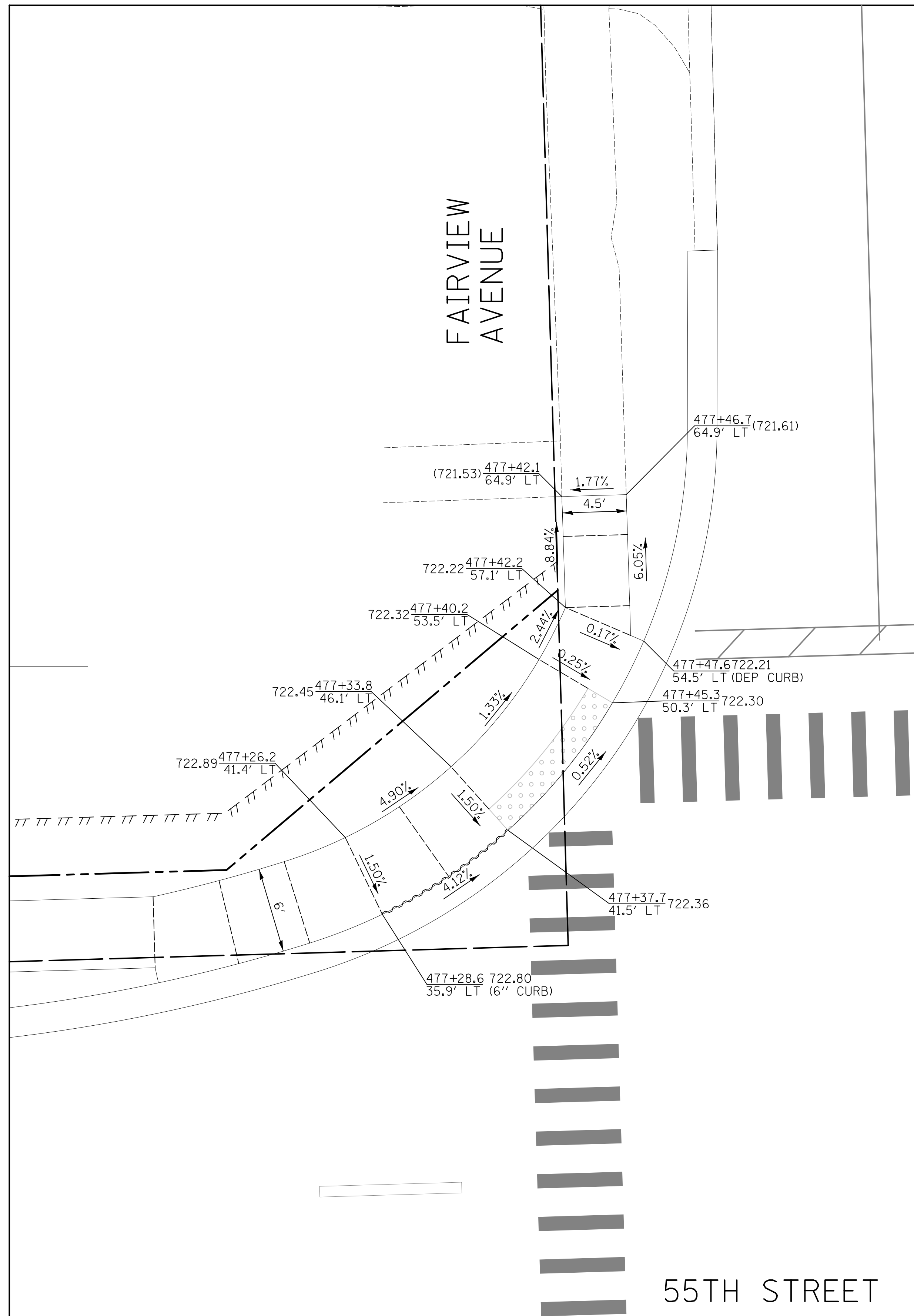


**SIDEWALK RAMP DETAILS**  
 SHEET NO. 15 OF 23 SHEETS STA. TO STA.

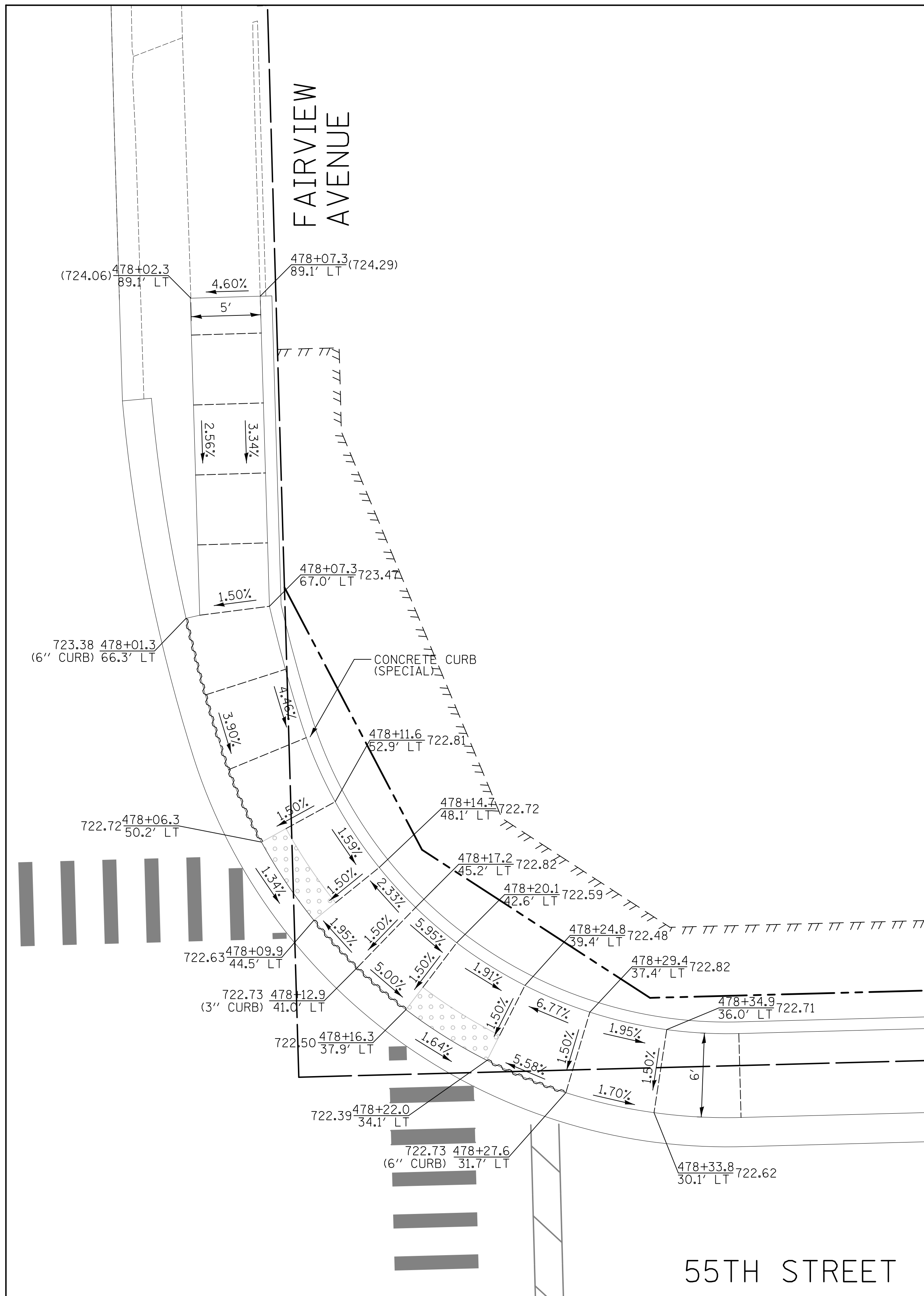
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	235
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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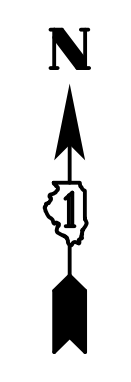
NW 55TH STREET  
& FAIRVIEW AVENUE



NE 55TH STREET  
& FAIRVIEW AVENUE

**LEGEND**

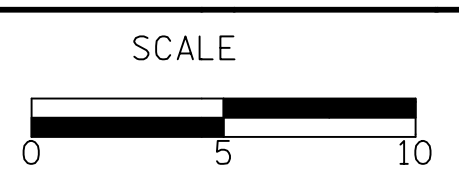
(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT
	CURB HEIGHT TRANSITION



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CHECKED -	JRV	REVISED -	
DATE -	09/06/2018	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



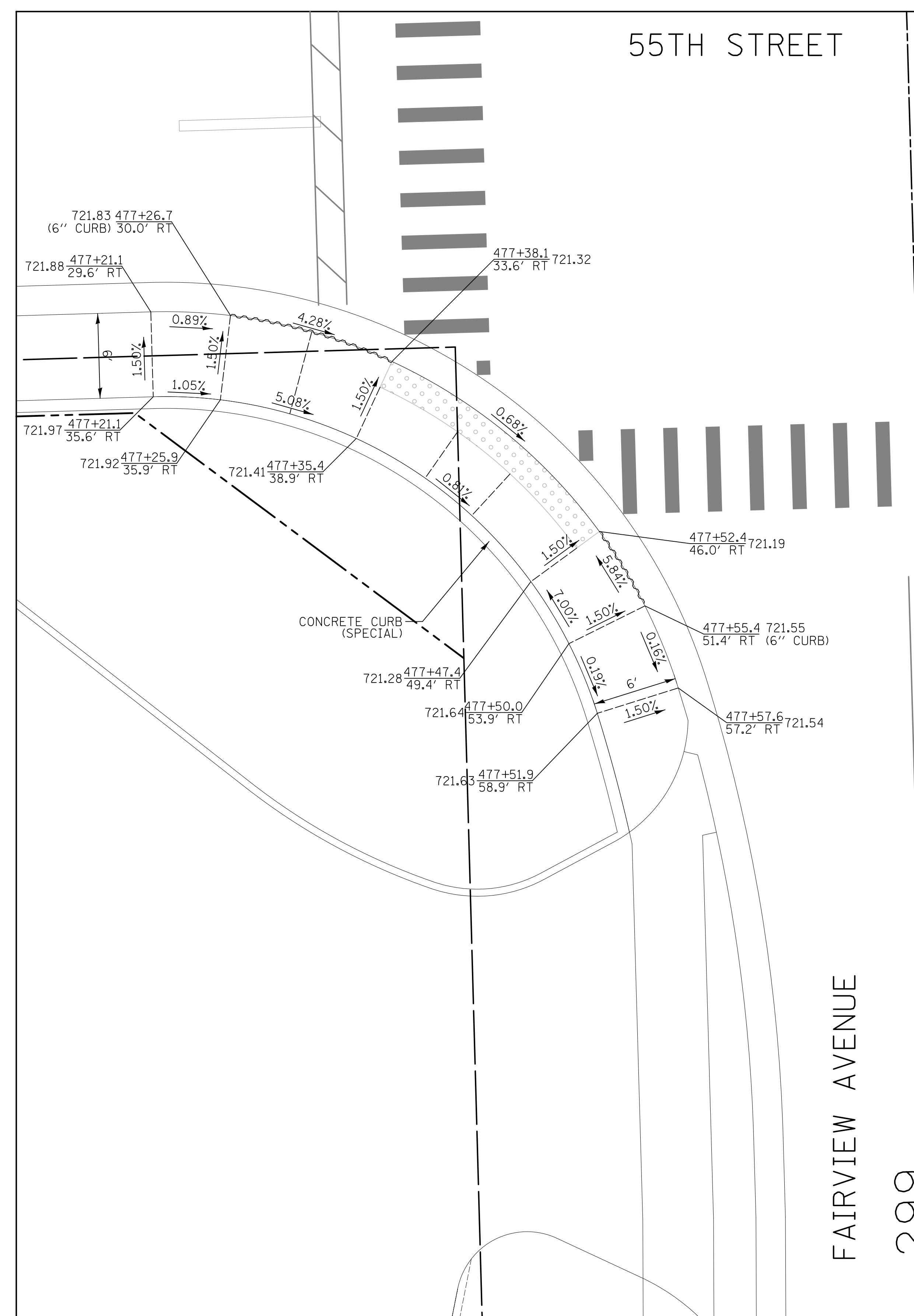
**SIDEWALK RAMP DETAILS**

SHEET NO. 16 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	236
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

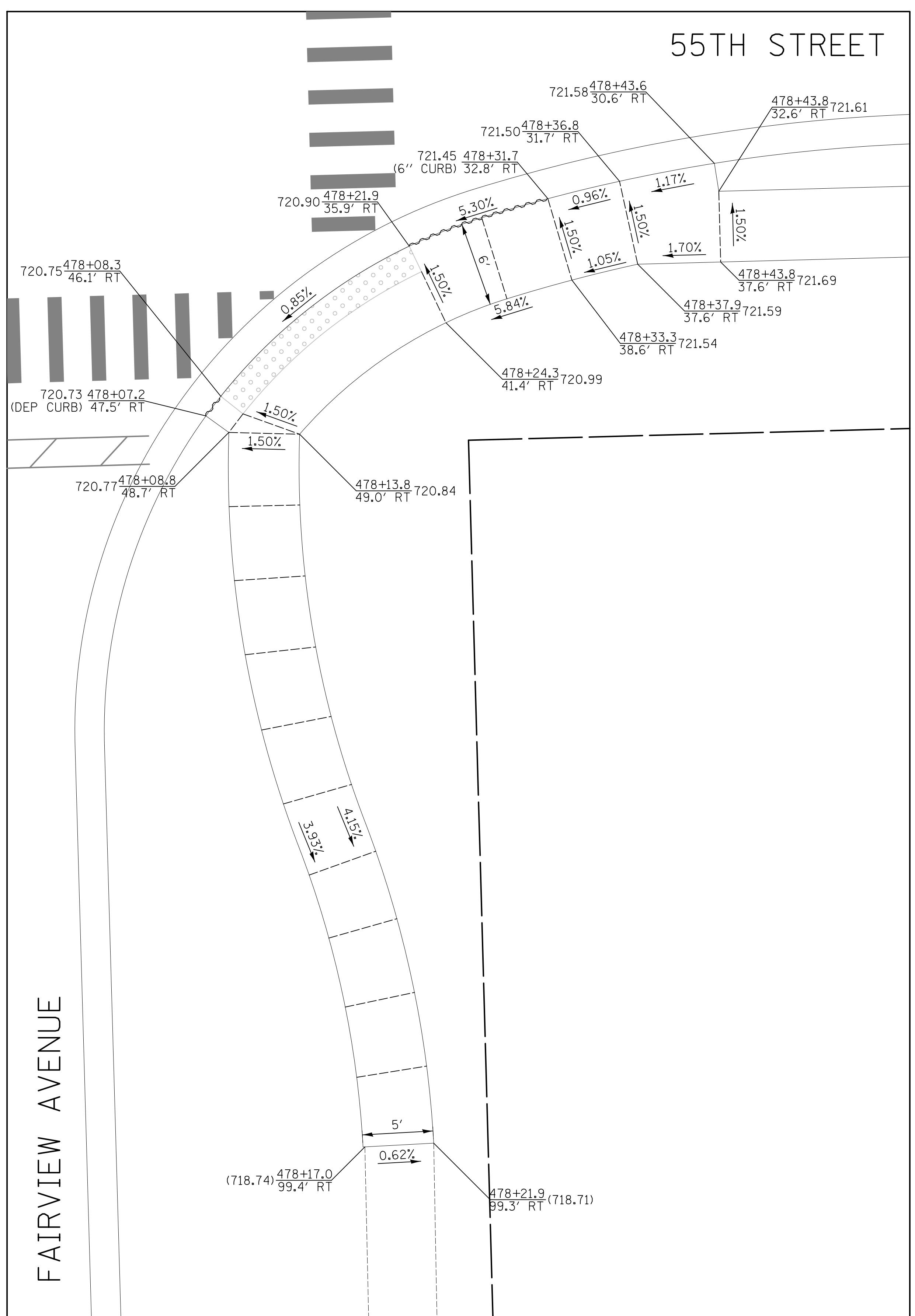
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ADD. FILE NAME	

DATE	
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CHECKED	
BA. NOTED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK	
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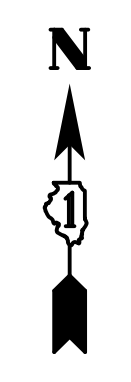


SW 55TH STREET & FAIRVIEW AVENUE

299



SE 55TH STREET & FAIRVIEW AVENUE



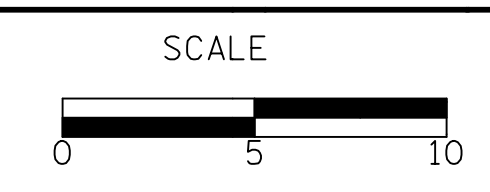
**LEGEND**

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT
	CURB HEIGHT TRANSITION



DESIGNED - JRR	REVISED -
DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

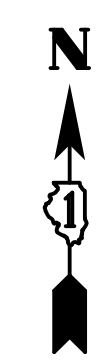
**STATE OF ILLINOIS**  
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**SIDEWALK RAMP DETAILS**

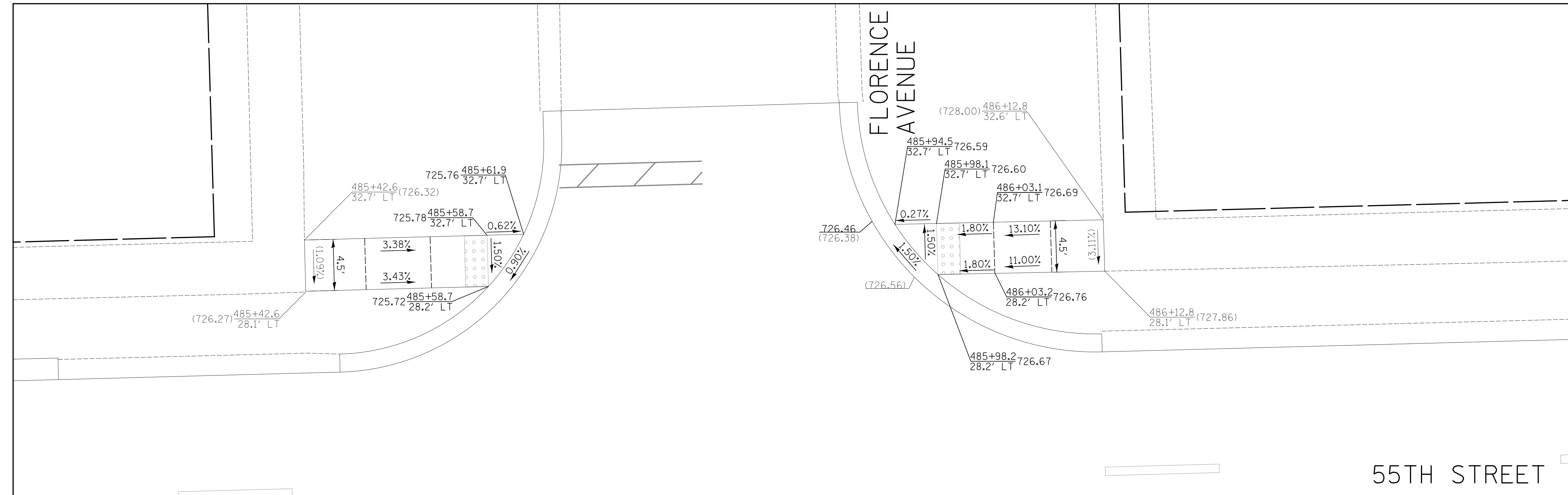
SHEET NO. 17 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	237
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
	PLOTTED	
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	STRUCTURE NOTATIONS CHKD	



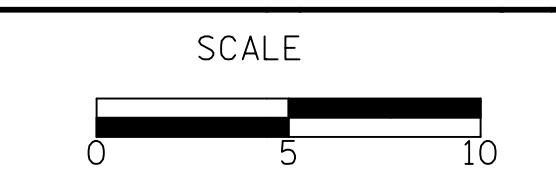
**LEGEND**

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
---	SIDEWALK JOINT

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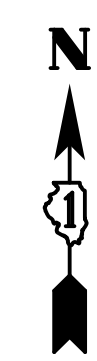
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



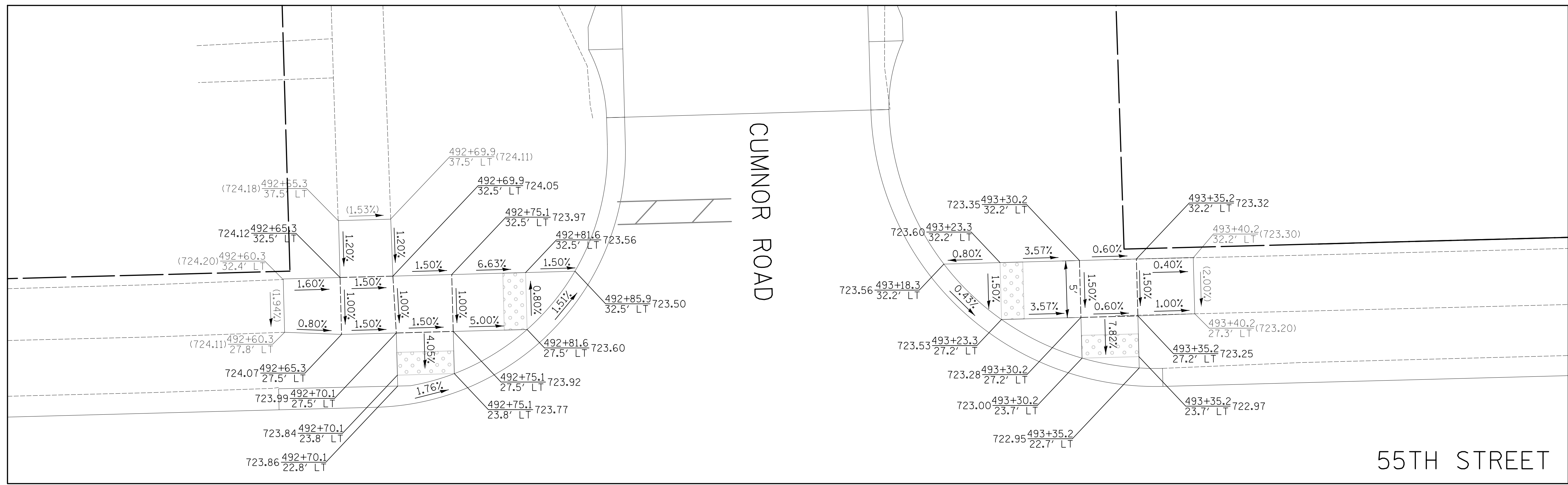
**SIDEWALK RAMP DETAILS**

SHEET NO. 18 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	238
<b>CONTRACT NO. 61E06</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



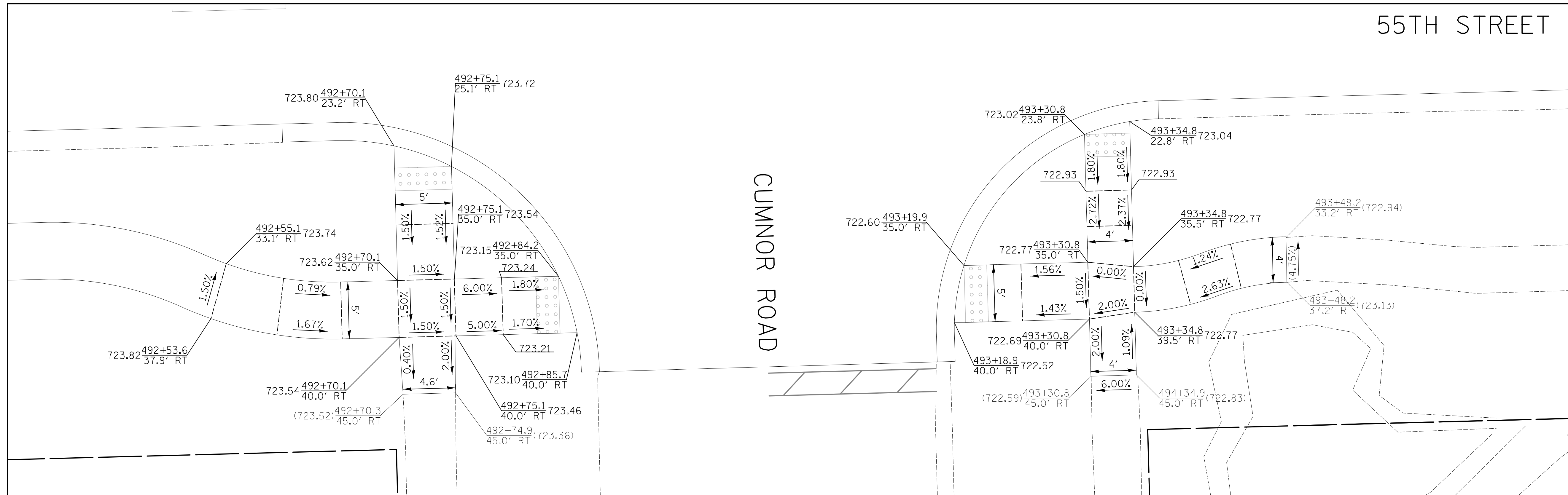
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PLOTTED	
CHECKED	
PT. OF WAY CHECKED	
NOTE BOOK NO.	
ADD. FILE NAME	



NW 55TH STREET & CUMNOR ROAD

NE 55TH STREET & CUMNOR ROAD

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
BAV. NOTED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	
ADD. FILE NAME	



SW 55TH STREET & CUMNOR ROAD

SE 55TH STREET & CUMNOR ROAD

**LEGEND**

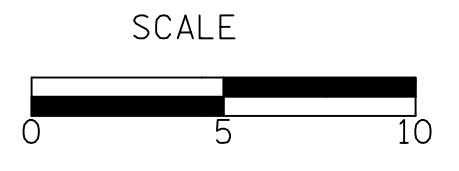
(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
- - - -	SIDEWALK JOINT



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DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
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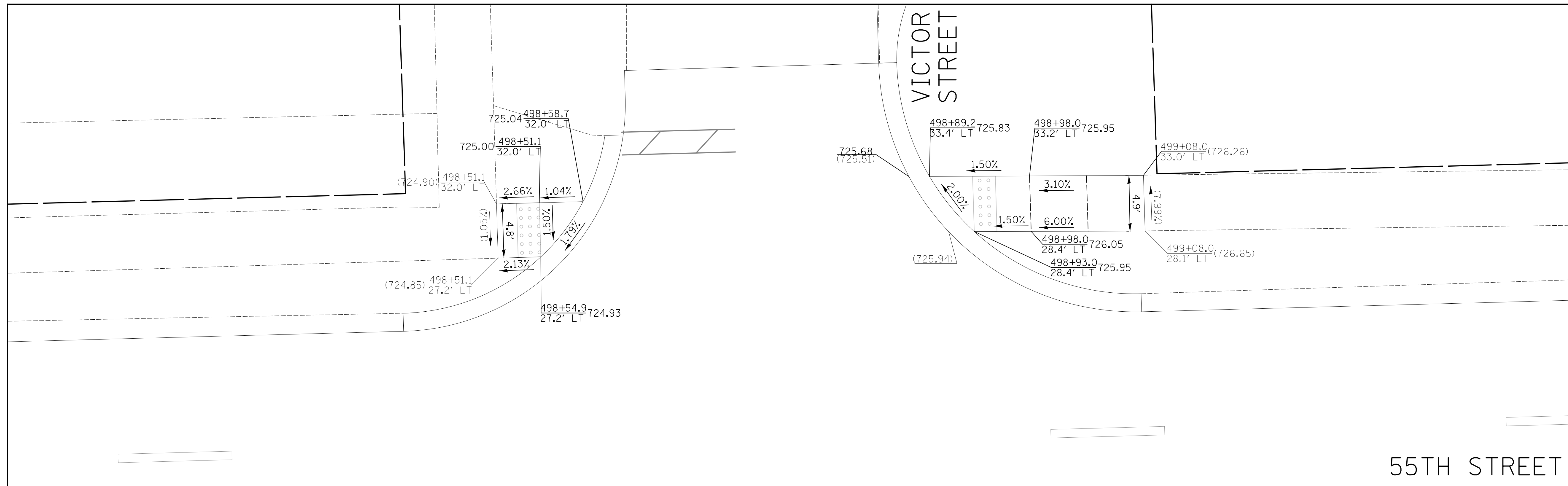
**SIDEWALK RAMP DETAILS**

SHEET NO. 19 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	239
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	NO. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	

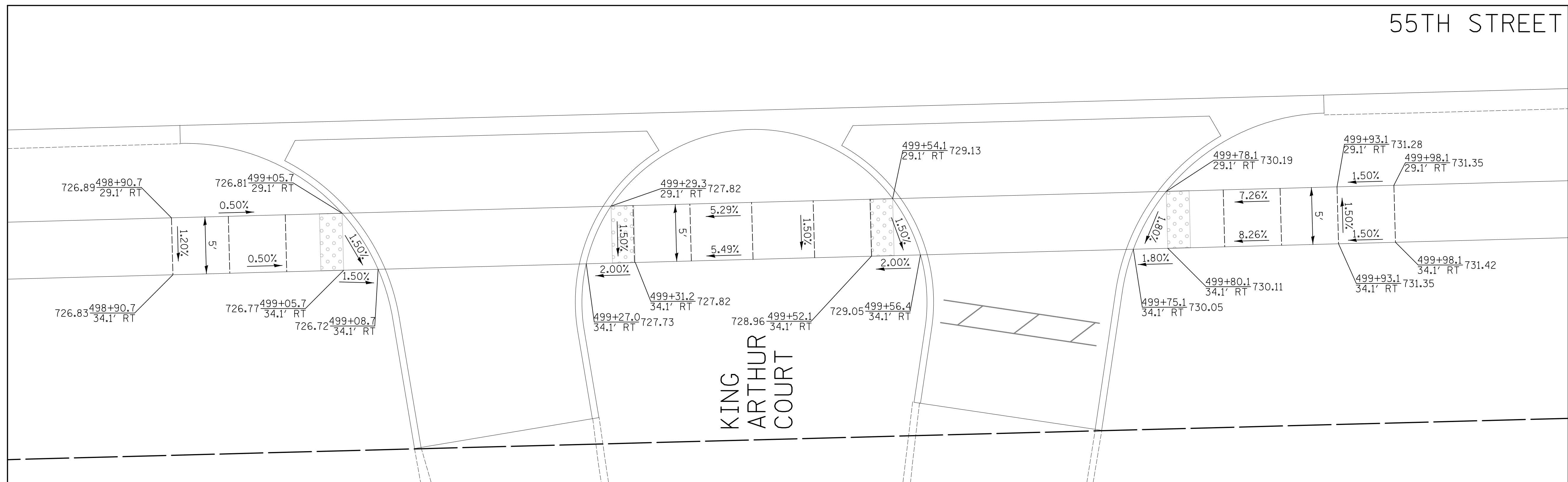
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	



NW 55TH STREET  
& VICTOR STREET

NE 55TH STREET  
& VICTOR STREET

55TH STREET



55TH STREET  
& KING ARTHUR COURT

55TH STREET

**LEGEND**

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
- - - -	SIDEWALK JOINT



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Itasca, Illinois 60143  
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DESIGNED -	JRR	REVISED -	
DRAWN -	TGB	REVISED -	
CHECKED -	JRV	REVISED -	
DATE -	09/06/2018	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

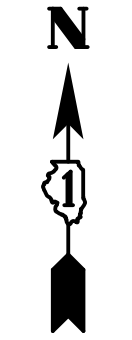


**SIDEWALK RAMP DETAILS**

SHEET NO. 20 OF 23 SHEETS STA. TO STA.

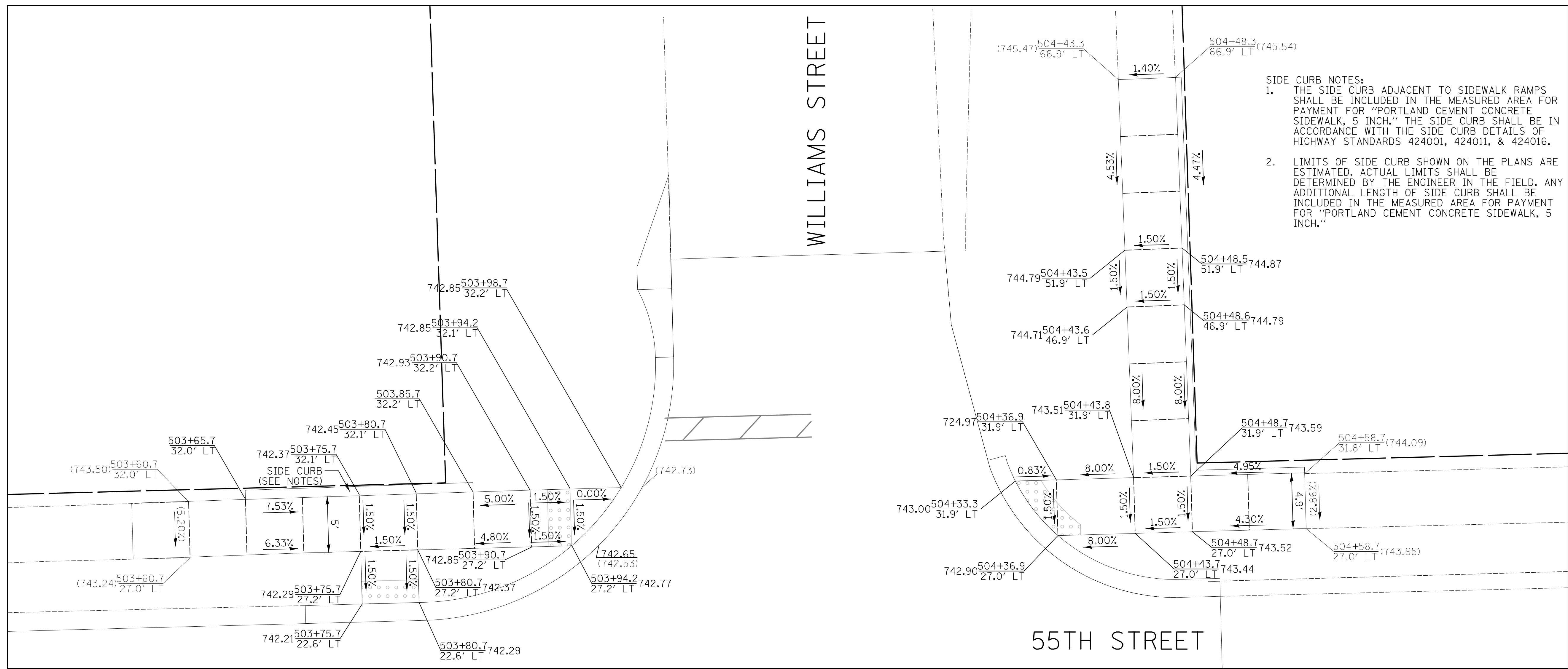
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	240
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NO.	
	NO.	
	NO.	
	NO.	
	NO.	



SIDE CURB NOTES:  
 1. THE SIDE CURB ADJACENT TO SIDEWALK RAMP SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH." THE SIDE CURB SHALL BE IN ACCORDANCE WITH THE SIDE CURB DETAILS OF HIGHWAY STANDARDS 424001, 424011, & 424016.  
 2. LIMITS OF SIDE CURB SHOWN ON THE PLANS ARE ESTIMATED. ACTUAL LIMITS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ANY ADDITIONAL LENGTH OF SIDE CURB SHALL BE INCLUDED IN THE MEASURED AREA FOR PAYMENT FOR "PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH."

NW 55TH STREET  
& WILLIAMS STREET

NE 55TH STREET  
& WILLIAMS STREET



55TH STREET  
& TWIN LAKES WOODS ENTRANCE

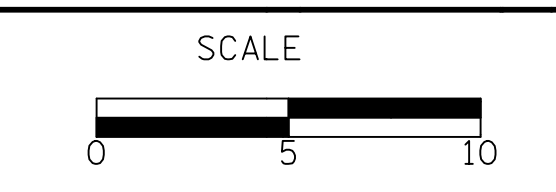
LEGEND

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
- - - -	SIDEWALK JOINT



DESIGNED - JRR	REVISED -
DRAWN - TGB	REVISED -
CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

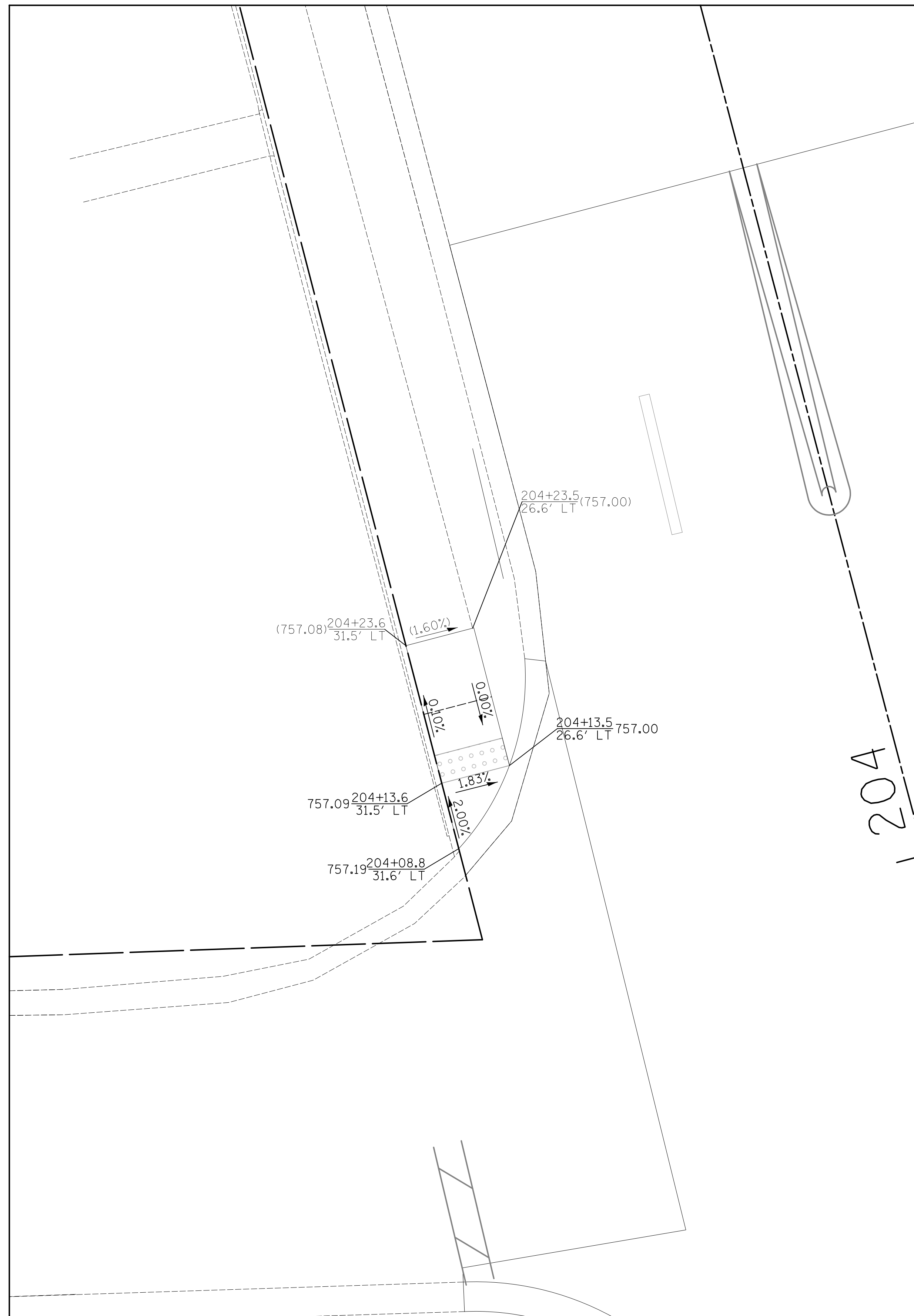


SIDEWALK RAMP DETAILS  
 SHEET NO. 21 OF 23 SHEETS STA. TO STA.

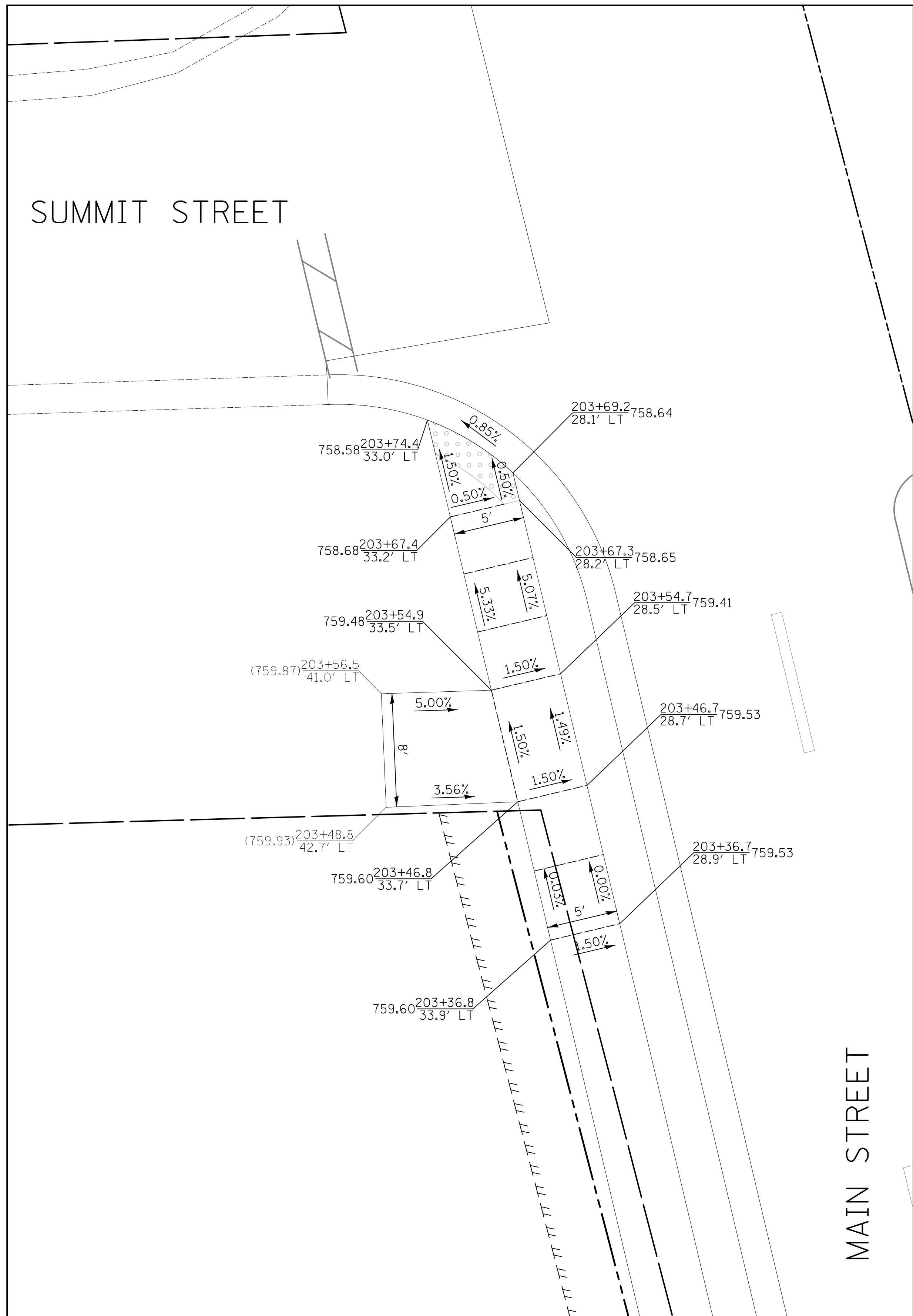
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	241
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	CHECKED	
	BY	
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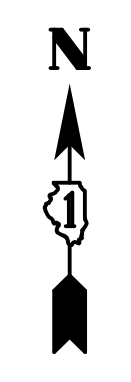
PROFILE	SURVEYED	DATE
	PLOTTED	
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	NO. OF WAY CHECKED	
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	ADD. FILE NAME	



NW MAIN STREET & SUMMIT STREET



SW MAIN STREET & SUMMIT STREET



**LEGEND**

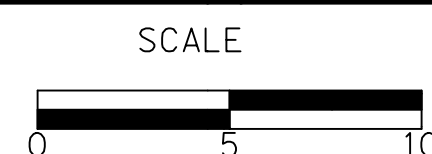
(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT



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CHECKED - JRV	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



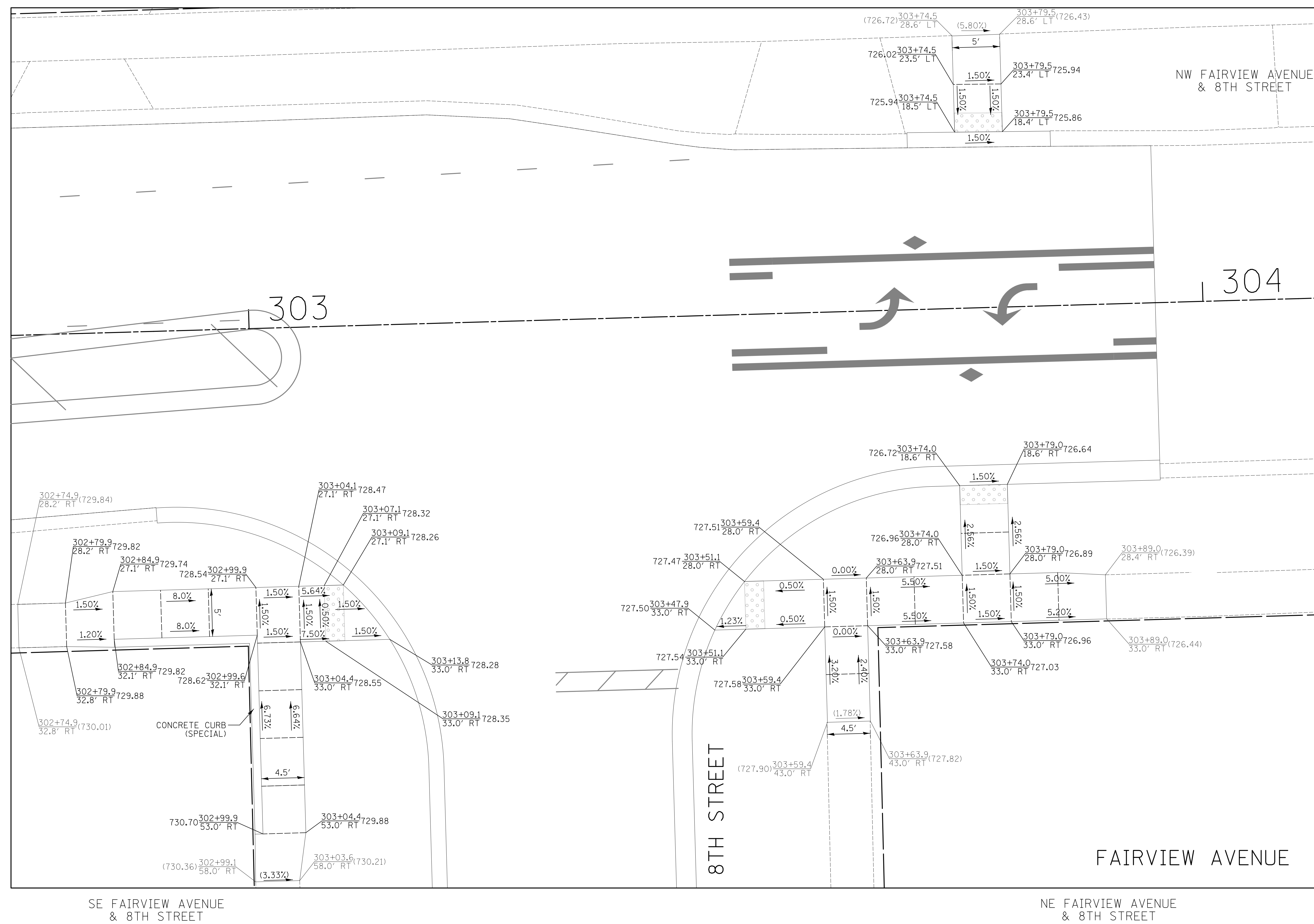
**SIDEWALK RAMP DETAILS**

SHEET NO. 22 OF 23 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	242
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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NOTE BOOK	
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CADD FILE NAME	

DATE	
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PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK	
NO.	
STRUCTURE NOTATIONS	
CHKD	



**LEGEND**

(XXX.XX)	EXISTING ELEVATION
XXX.XX	PROPOSED ELEVATION
	DETECTABLE WARNING
	SIDEWALK JOINT

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DRAWN -	TGB	REVISED -	
CHECKED -	JRV	REVISED -	
DATE	09/06/2018	REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

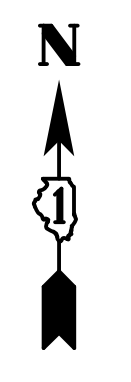
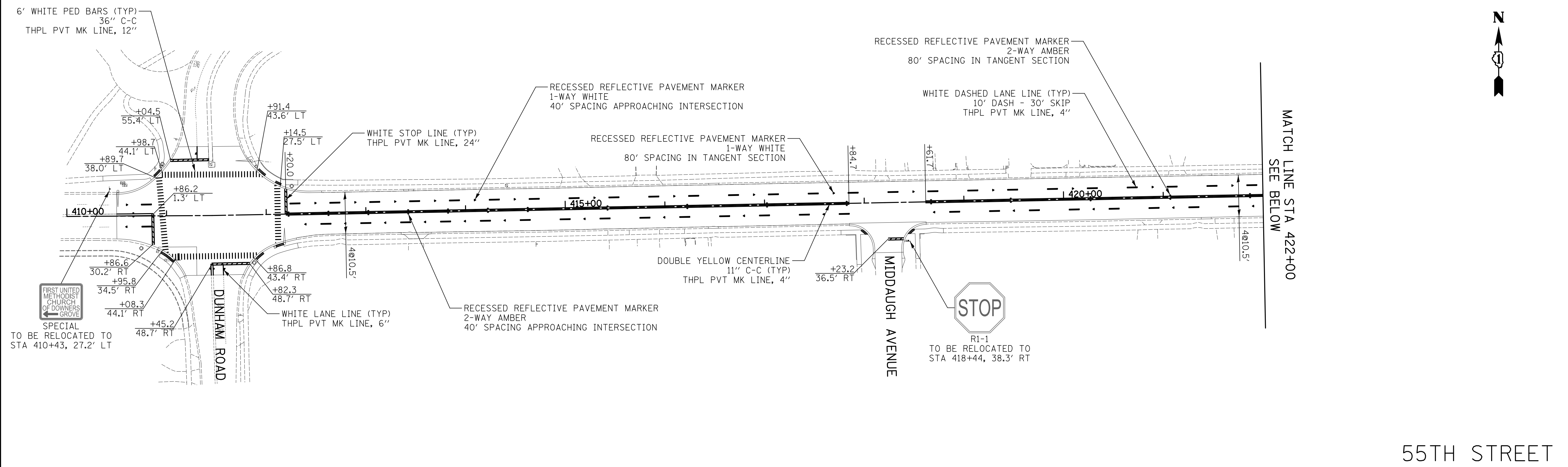


**SIDEWALK RAMP DETAILS**

SHEET NO. 23 OF 23 SHEETS STA. TO STA.

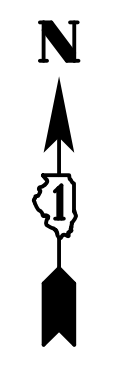
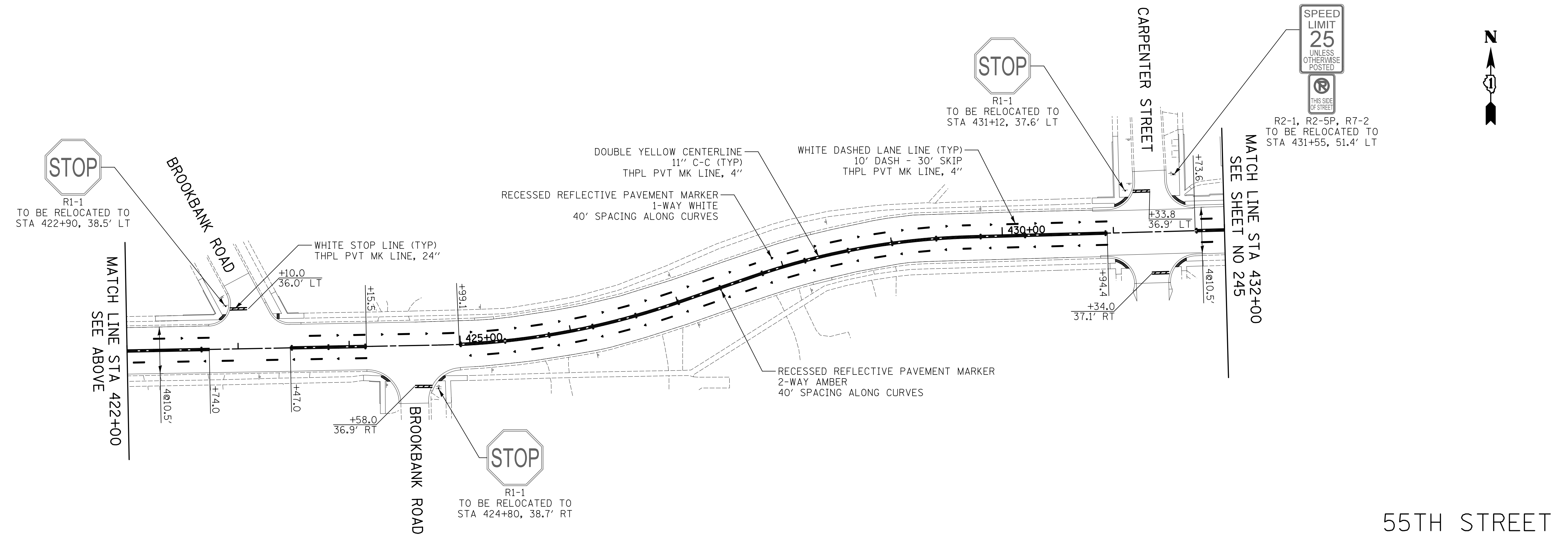
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	243
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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NOTE BOOK NO.	
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PROFILE	
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PLOTTED	
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NO. OF WAY CHECKED	
NOTE BOOK NO.	
DATE	
BY	



55TH STREET

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK NO.	
DATE	
BY	

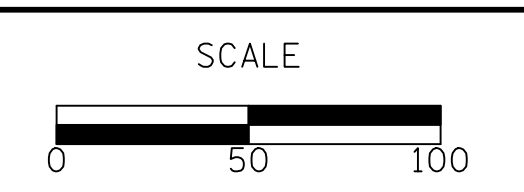


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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

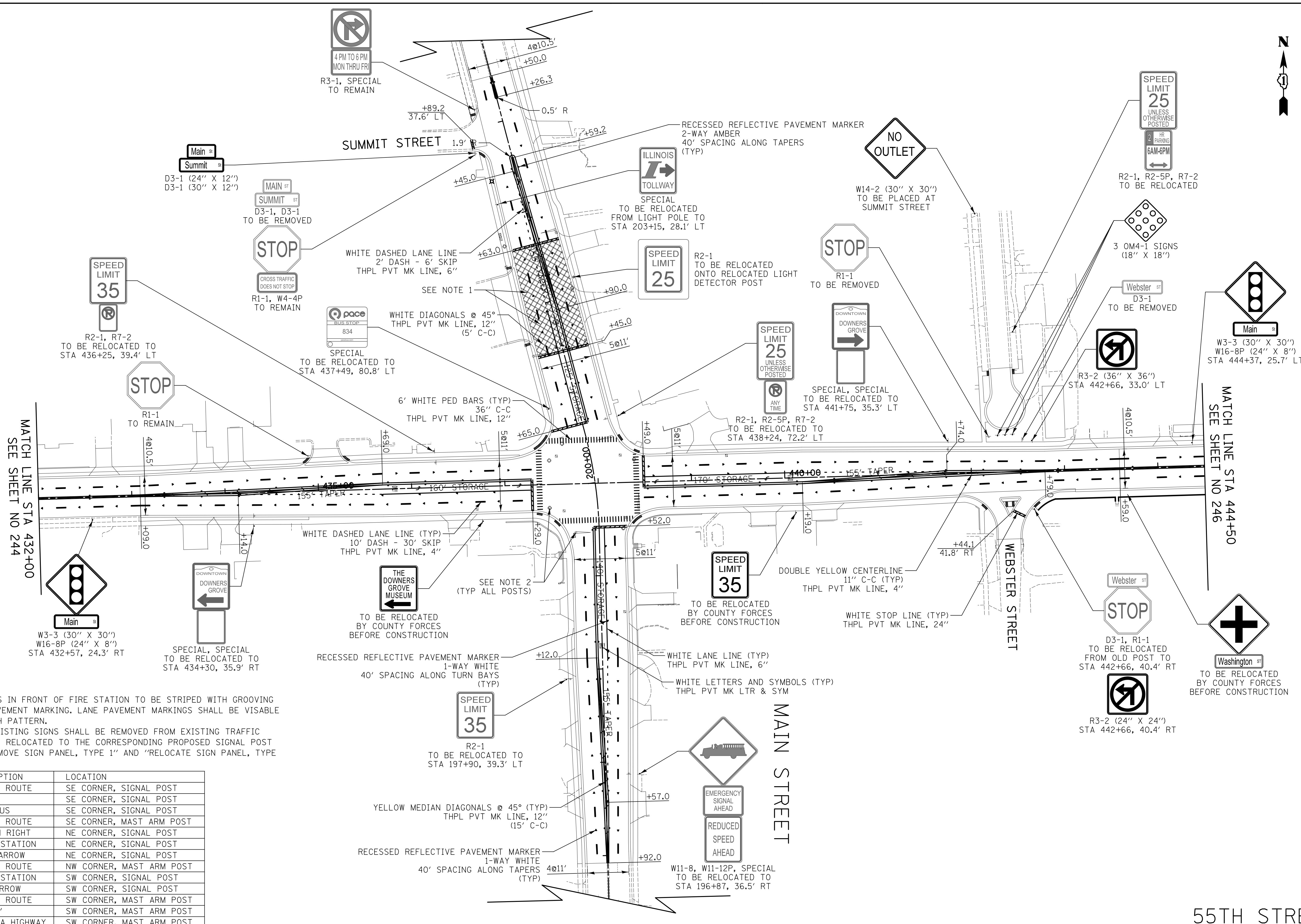


**PAVEMENT MARKING AND SIGNING PLAN**  
 SHEET NO. 1 OF 5 SHEETS STA. 412+00.0 TO STA. 432+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	244
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
DATE	
BY	
SURVEYED	
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NO. OF WAY CHECKED	
NOTE BOOK	
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NOTE BOOK	
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DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK	
NO.	



- NOTES:
- SOUTHBOUND LANES IN FRONT OF FIRE STATION TO BE STRIPED WITH GROOVING FOR RECESSED PAVEMENT MARKING. LANE PAVEMENT MARKINGS SHALL BE VISABLE OVER CROSS HATCH PATTERN.
  - THE FOLLOWING EXISTING SIGNS SHALL BE REMOVED FROM EXISTING TRAFFIC SIGNAL POSTS AND RELOCATED TO THE CORRESPONDING PROPOSED SIGNAL POST (PAID FOR AS "REMOVE SIGN PANEL, TYPE 1" AND "RELOCATE SIGN PANEL, TYPE 1"):

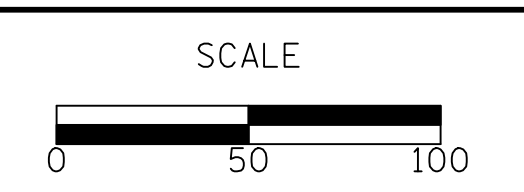
CODE	DESCRIPTION	LOCATION
M1-6	COUNTY ROUTE	SE CORNER, SIGNAL POST
M4-6	"END"	SE CORNER, SIGNAL POST
SPECIAL	PACE BUS	SE CORNER, SIGNAL POST
M1-6	COUNTY ROUTE	SE CORNER, MAST ARM POST
SPECIAL	MUSEUM RIGHT	NE CORNER, SIGNAL POST
I-7	METRA STATION	NE CORNER, SIGNAL POST
M6-1	RIGHT ARROW	NE CORNER, SIGNAL POST
M1-6	COUNTY ROUTE	NW CORNER, MAST ARM POST
I-7	METRA STATION	SW CORNER, SIGNAL POST
M6-1	LEFT ARROW	SW CORNER, SIGNAL POST
M1-6	COUNTY ROUTE	SW CORNER, MAST ARM POST
M4-14	"BEGIN"	SW CORNER, MAST ARM POST
SPECIAL	ADOBT A HIGHWAY	SW CORNER, MAST ARM POST

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 DRAWN - TGB  
 CHECKED - JRV  
 DATE - 09/06/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



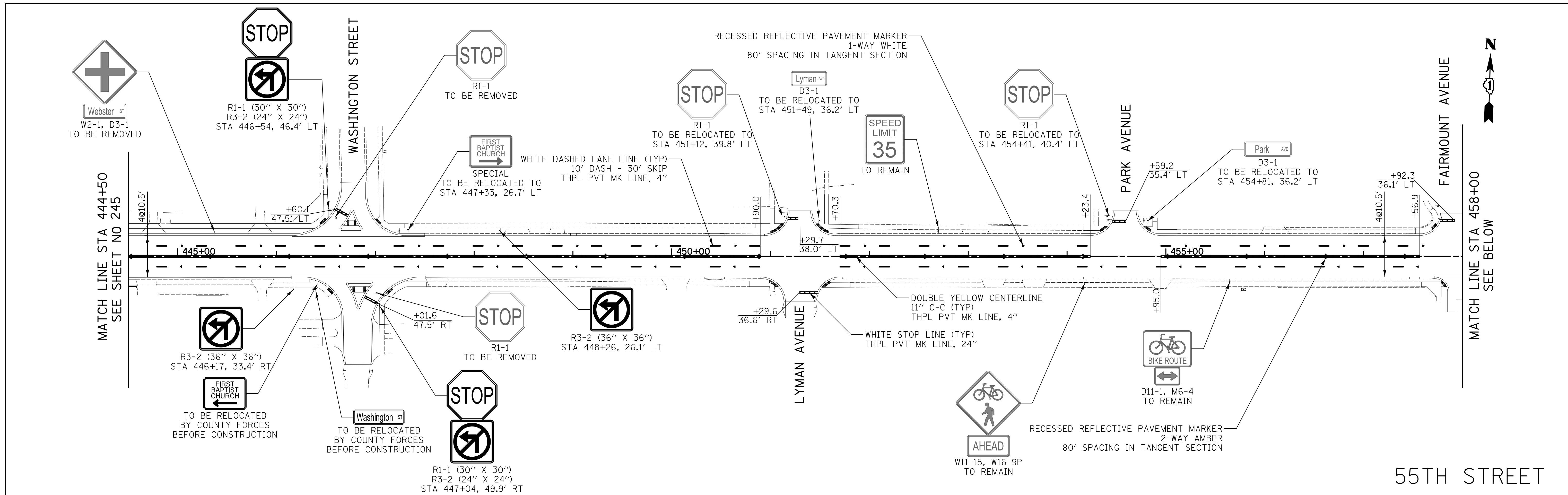
**PAVEMENT MARKING AND SIGNING PLAN**

SHEET NO. 2 OF 5 SHEETS STA. 432+00.0 TO STA. 444+50.0

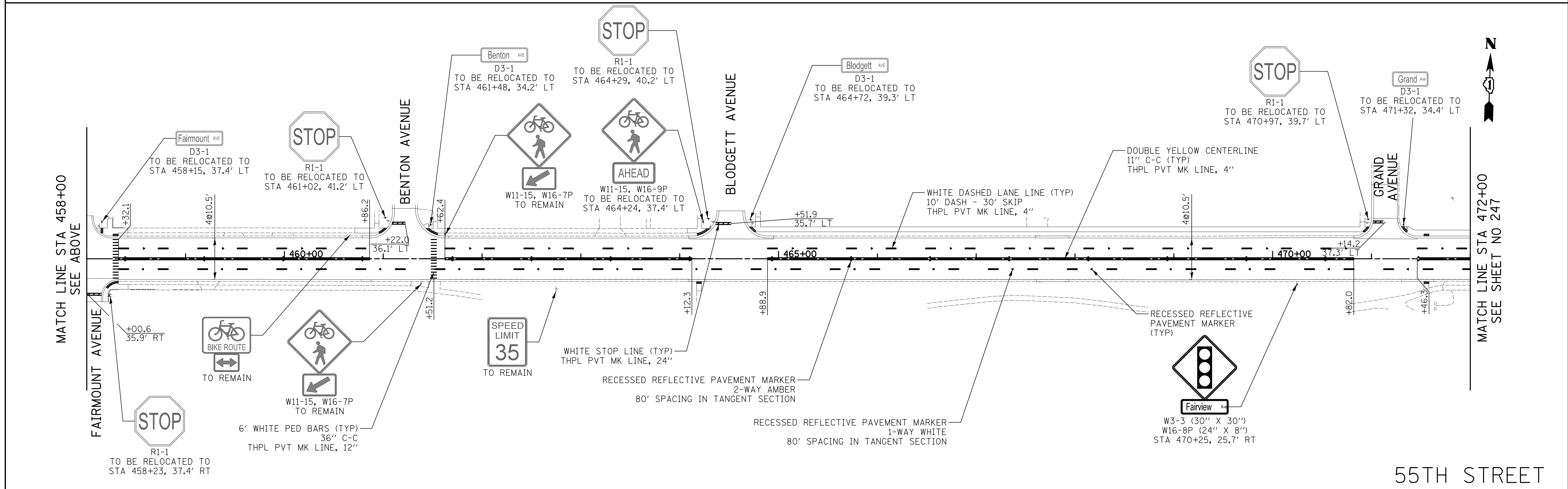
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	245
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	STRUCTURE	
	NOTATIONS	
	CHKD	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	STRUCTURE	
	NOTATIONS	
	CHKD	



55TH STREET

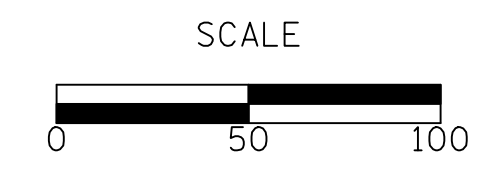


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DRAWN -	TGB	REVISED -	
CHECKED -	JRV	REVISED -	
DATE -	09/06/2018	REVISED -	

**STATE OF ILLINOIS**  
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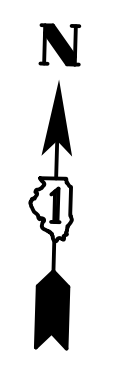
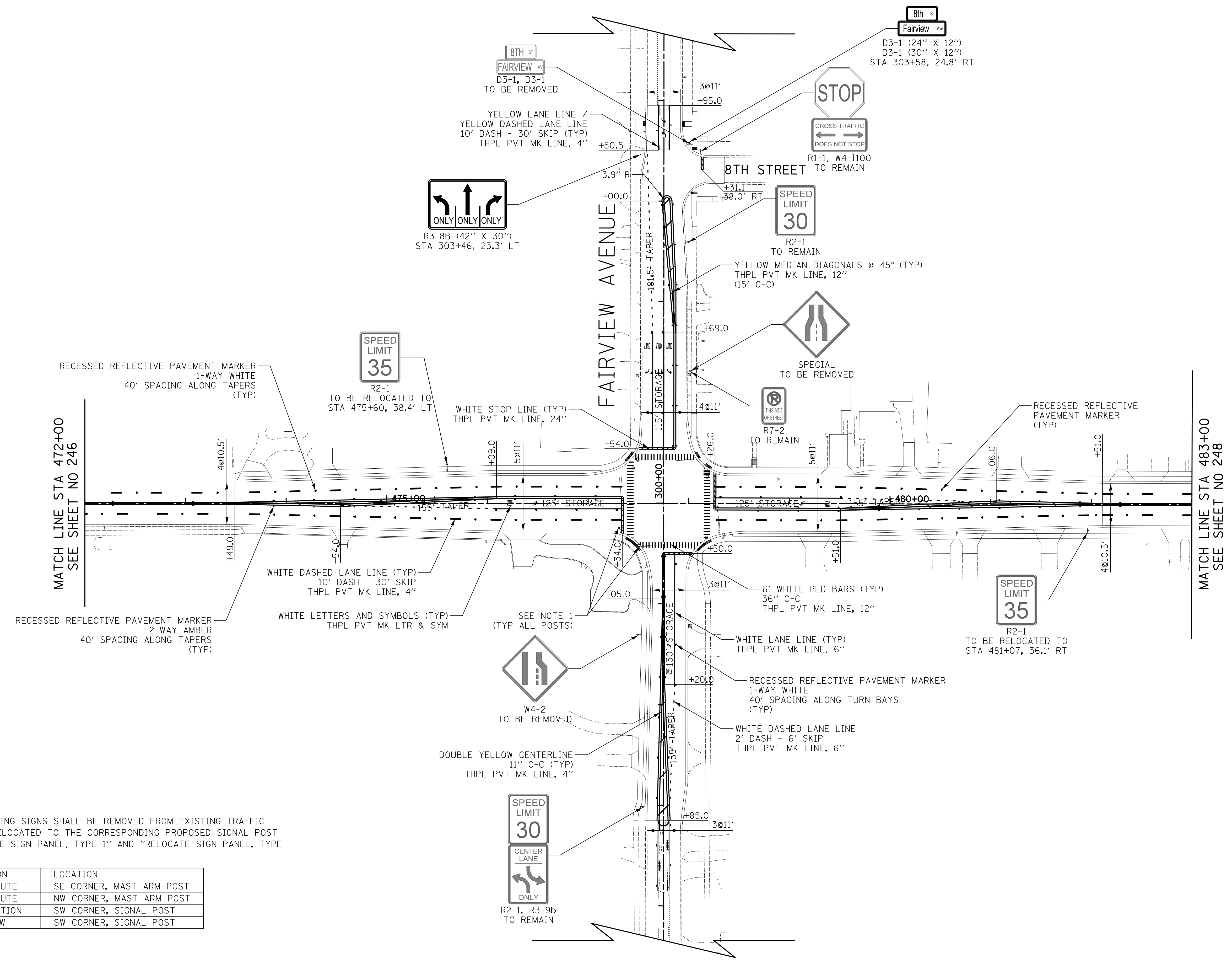
**PAVEMENT MARKING AND SIGNING PLAN**

SHEET NO. 3 OF 5 SHEETS STA. 444+50.0 TO STA. 472+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	246
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
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PROFILE	SURVEYED	DATE
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	DATE	



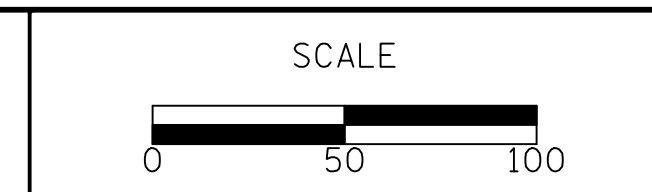
- NOTES:
- THE FOLLOWING EXISTING SIGNS SHALL BE REMOVED FROM EXISTING TRAFFIC SIGNAL POSTS AND RELOCATED TO THE CORRESPONDING PROPOSED SIGNAL POST (PAID FOR AS "REMOVE SIGN PANEL, TYPE 1" AND "RELOCATE SIGN PANEL, TYPE 1"):

CODE	DESCRIPTION	LOCATION
M1-6	COUNTY ROUTE	SE CORNER, MAST ARM POST
M1-6	COUNTY ROUTE	NW CORNER, MAST ARM POST
I-7	METRA STATION	SW CORNER, SIGNAL POST
M6-1	LEFT ARROW	SW CORNER, SIGNAL POST

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DATE - 09/06/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PAVEMENT MARKING AND SIGNING PLAN

SHEET NO. 4 OF 5 SHEETS STA. 472+00.0 TO STA. 483+00.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	247
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	DATE	

Fairview  
W3-3 (30" X 30")  
W16-8P (24" X 8")  
STA 483+80, 26.1' LT

STOP  
R1-1  
TO BE RELOCATED TO  
STA 485+57, 36.7' LT

SPEED  
LIMIT  
35  
TO REMAIN

FLORENCE AVENUE

WHITE STOP LINE (TYP)  
THPL PVT MK LINE, 24"

+77.7  
37.7' LT

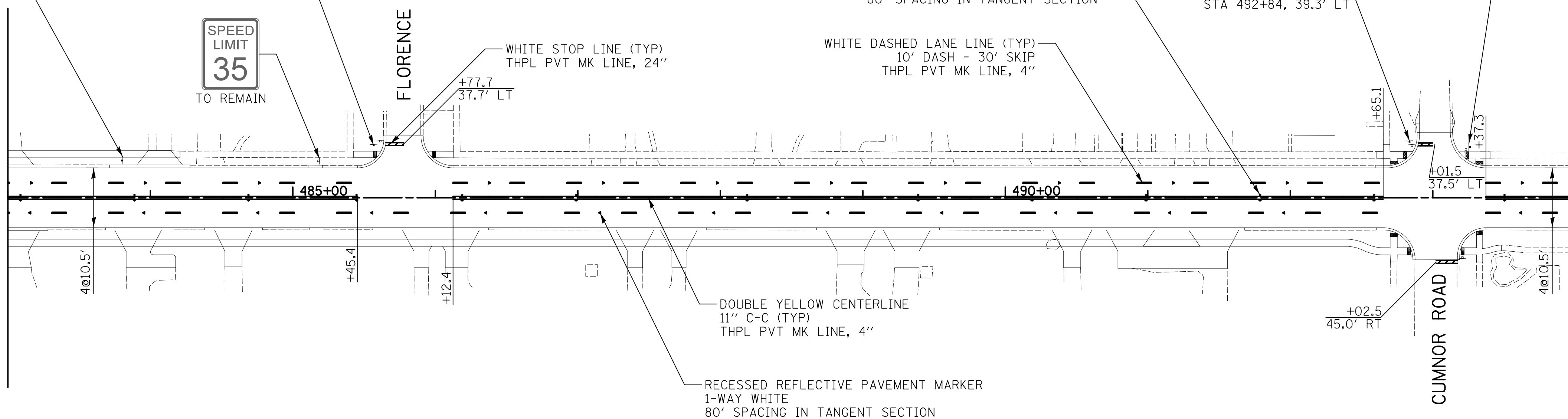
RECESSED REFLECTIVE PAVEMENT MARKER  
2-WAY AMBER  
80' SPACING IN TANGENT SECTION

WHITE DASHED LANE LINE (TYP)  
10' DASH - 30' SKIP  
THPL PVT MK LINE, 4"

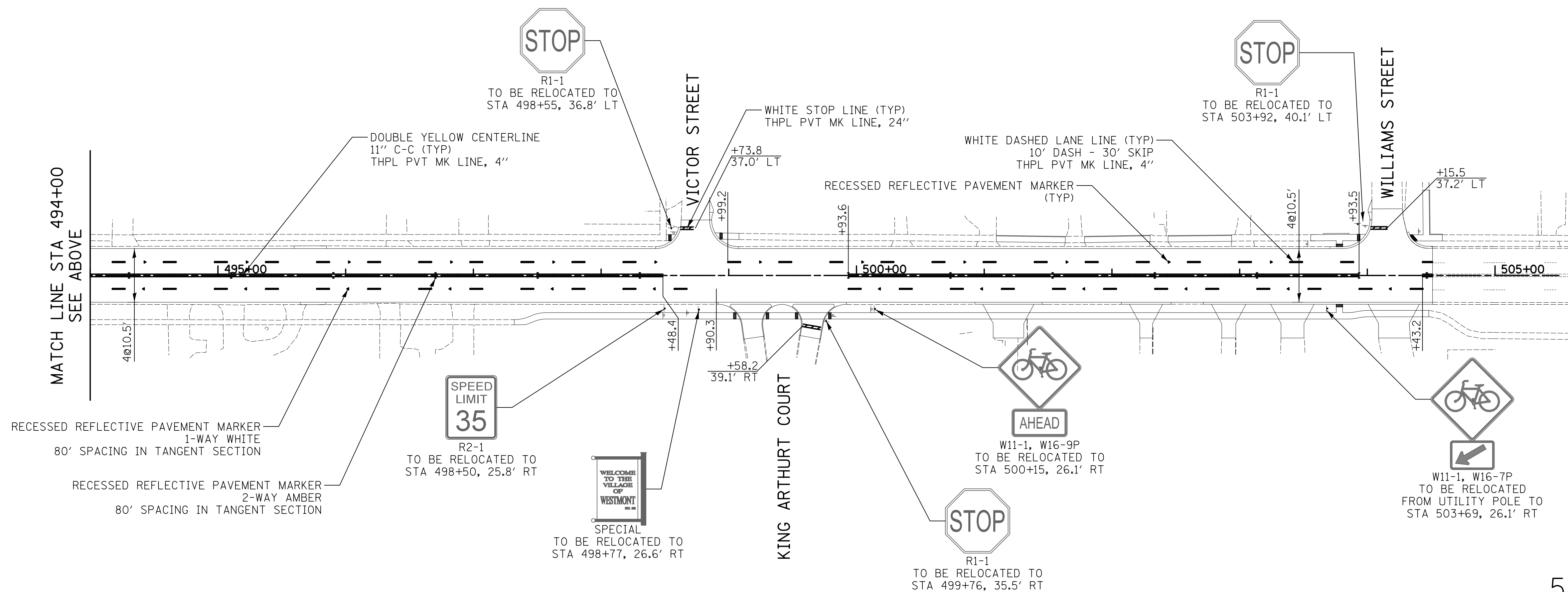
STOP  
R1-1  
TO BE RELOCATED TO  
STA 492+84, 39.3' LT

Cumnor  
D3-1  
TO BE RELOCATED TO  
STA 493+26, 35.4' LT

MATCH LINE STA 483+00  
SEE SHEET NO 247



55TH STREET



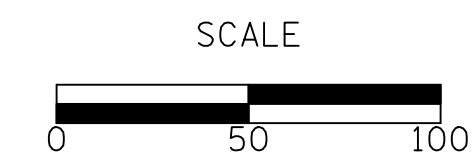
55TH STREET



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DESIGNED	- JRR	REVISED	-
DRAWN	- TGB	REVISED	-
CHECKED	- JRV	REVISED	-
DATE	- 09/06/2018	REVISED	-

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PAVEMENT MARKING AND SIGNING PLAN

SHEET NO. 5 OF 5 SHEETS STA. 483+00.0 TO STA. 504+50.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	248
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



# TRAFFIC SIGNAL LEGEND

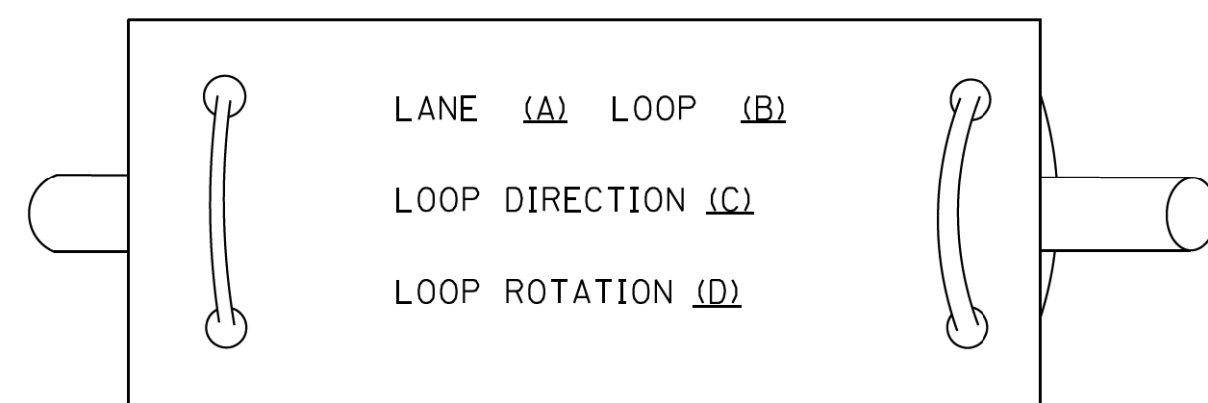
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

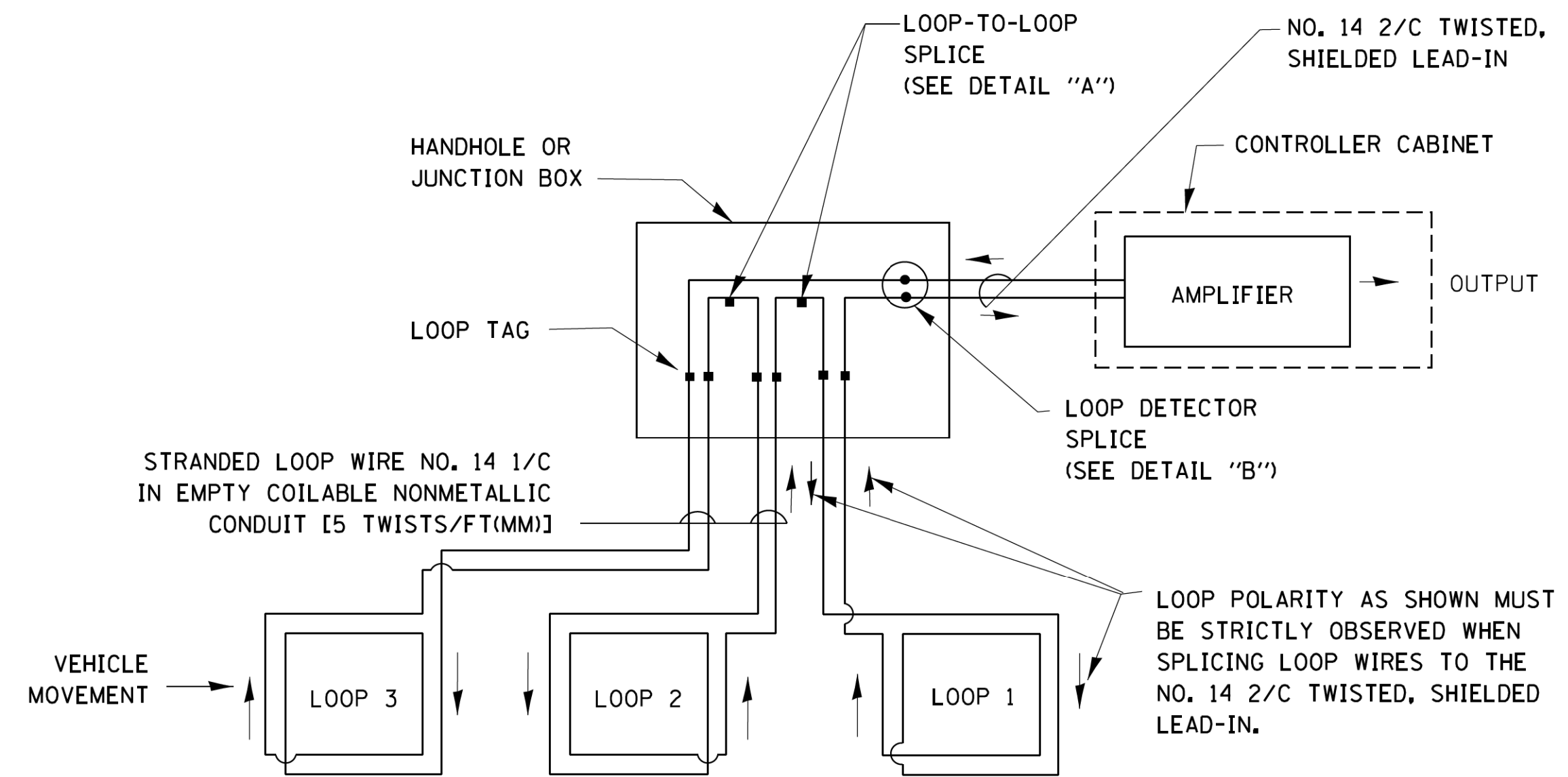
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

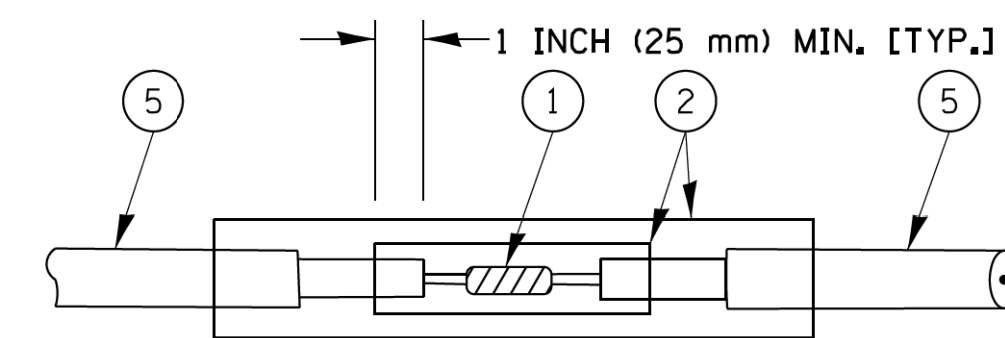


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

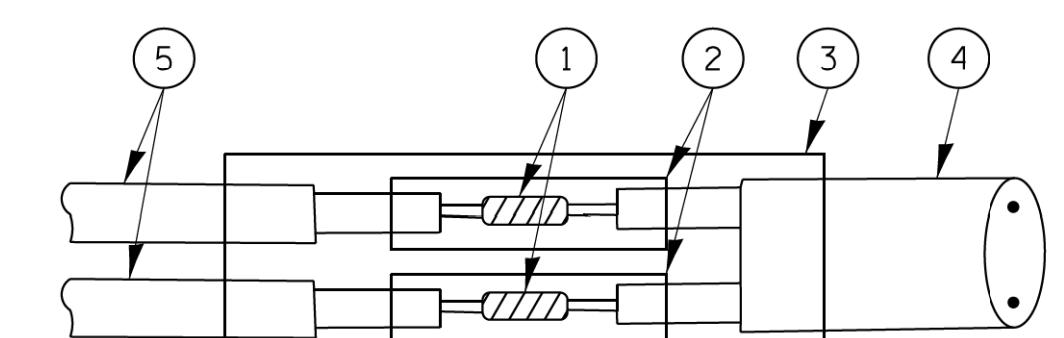


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

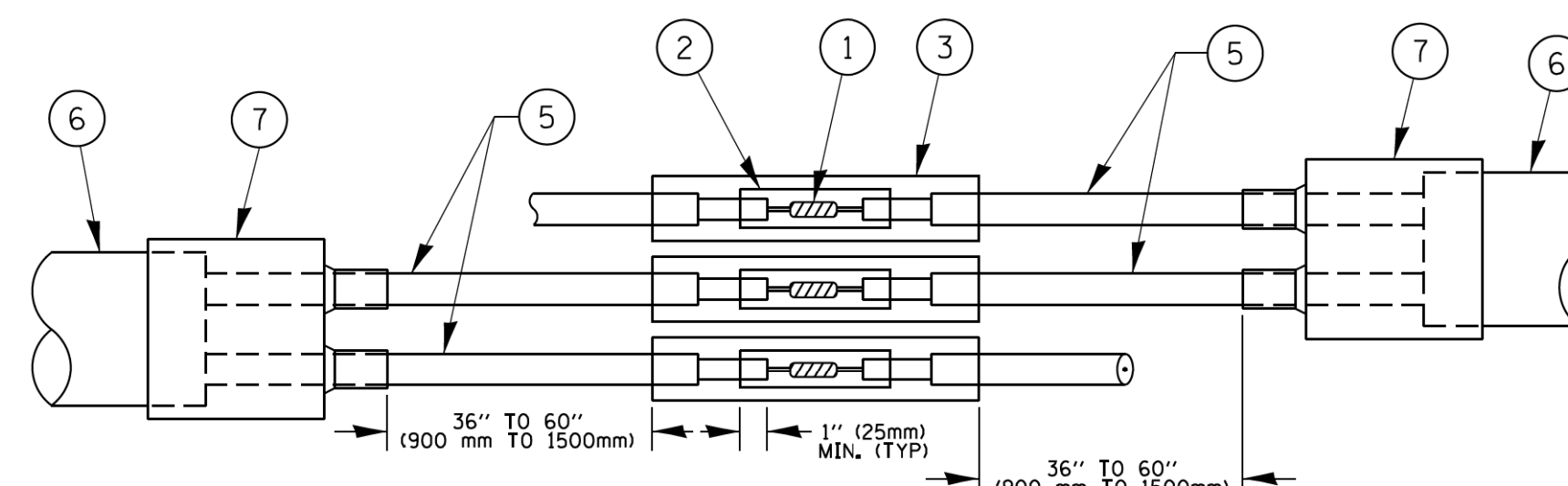


DETAIL "A"  
LOOP-TO-LOOP SPLICE

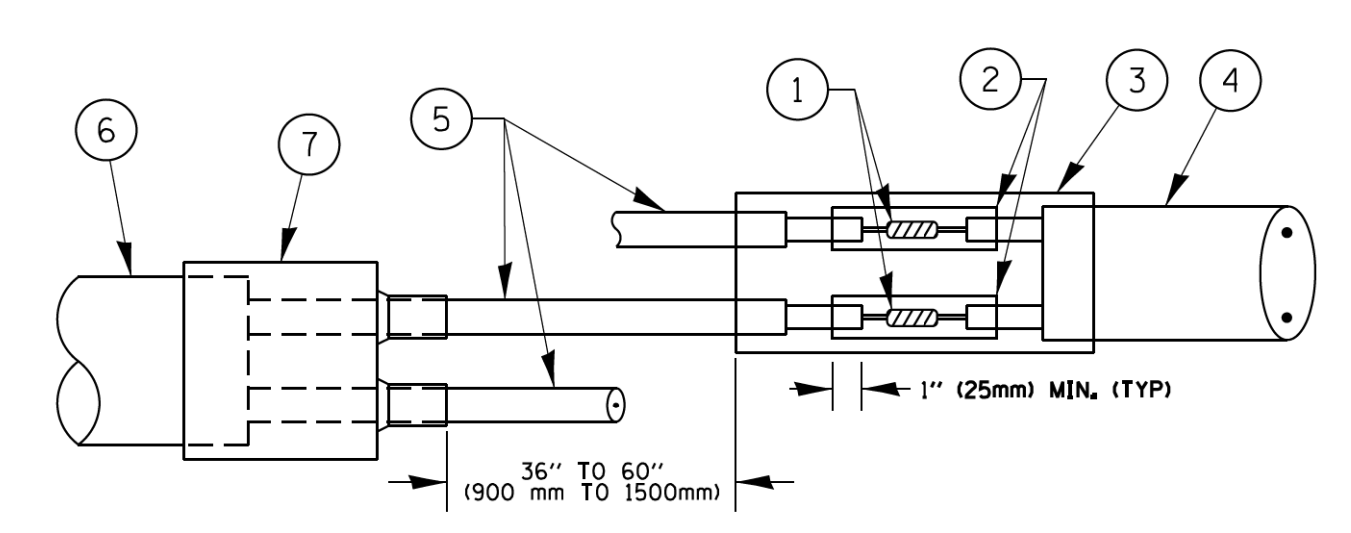


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

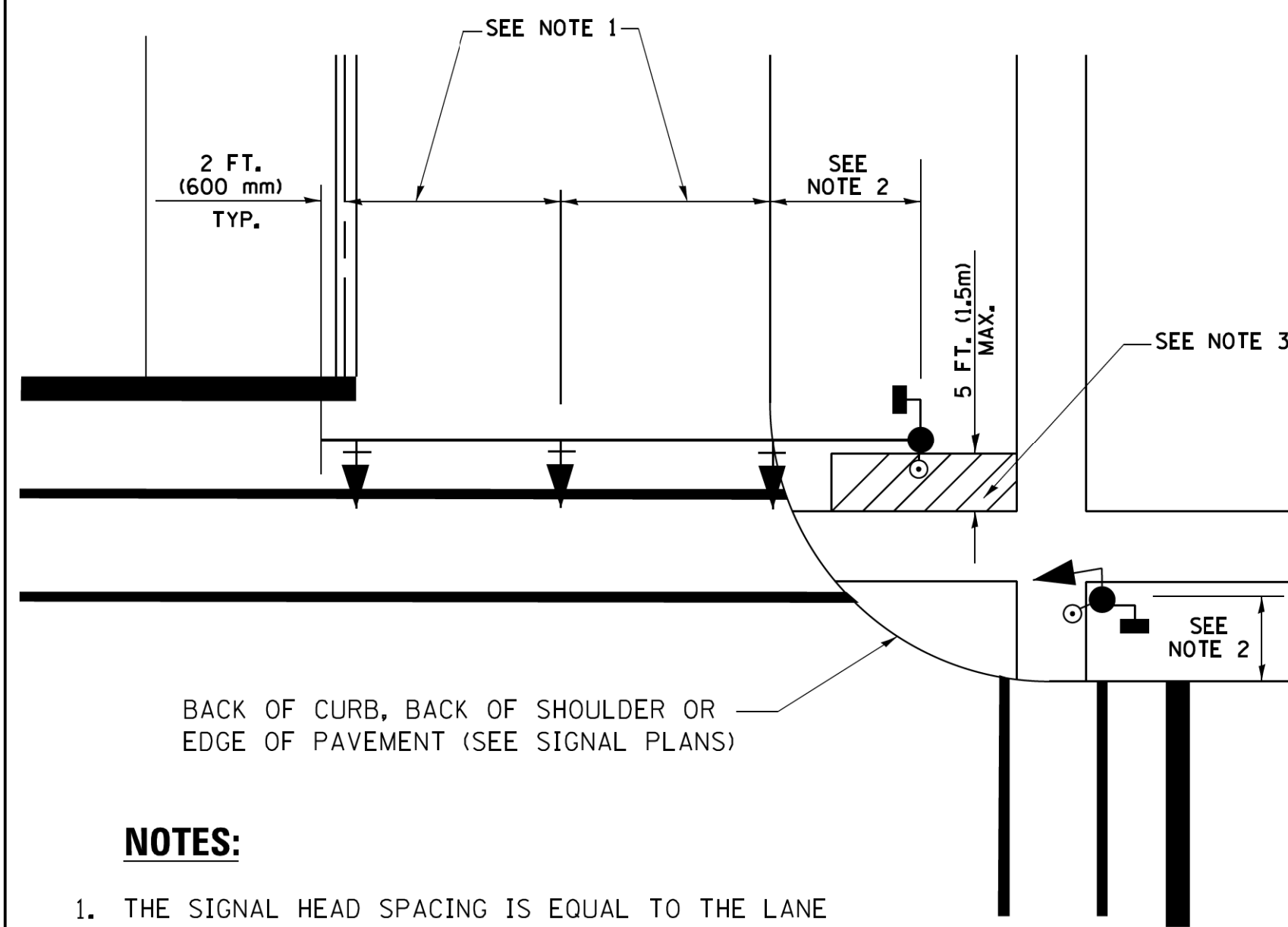
**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO-CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
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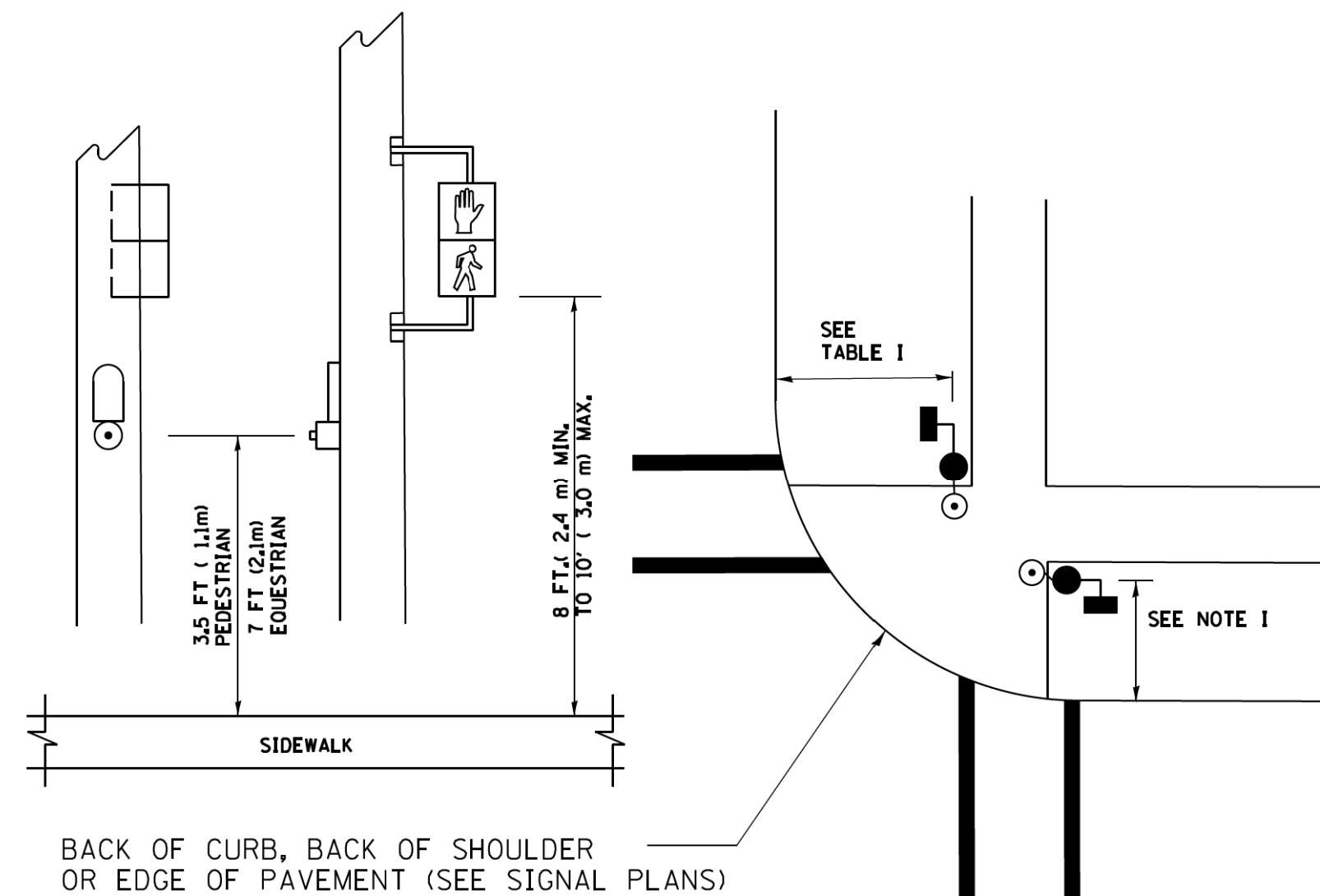
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

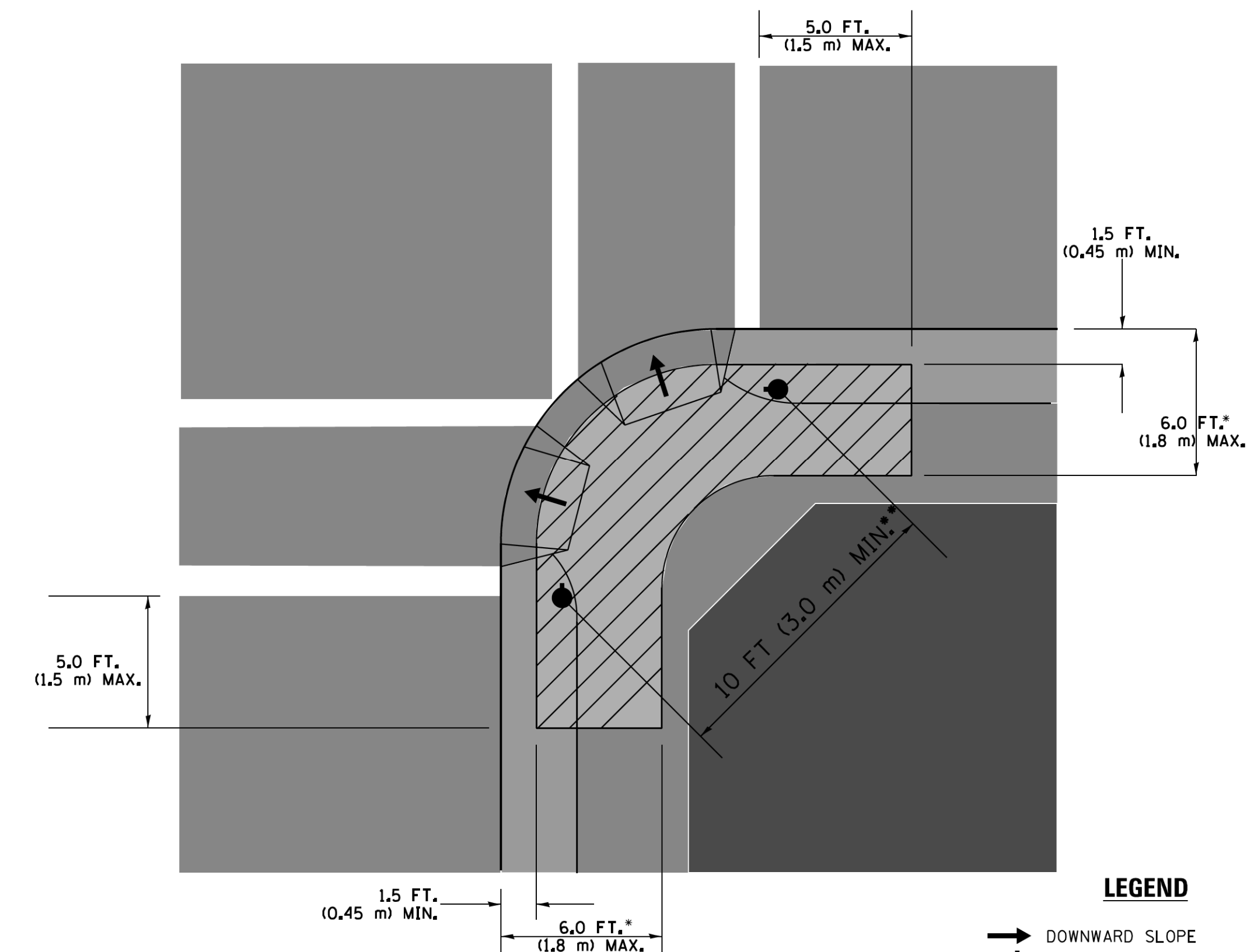
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

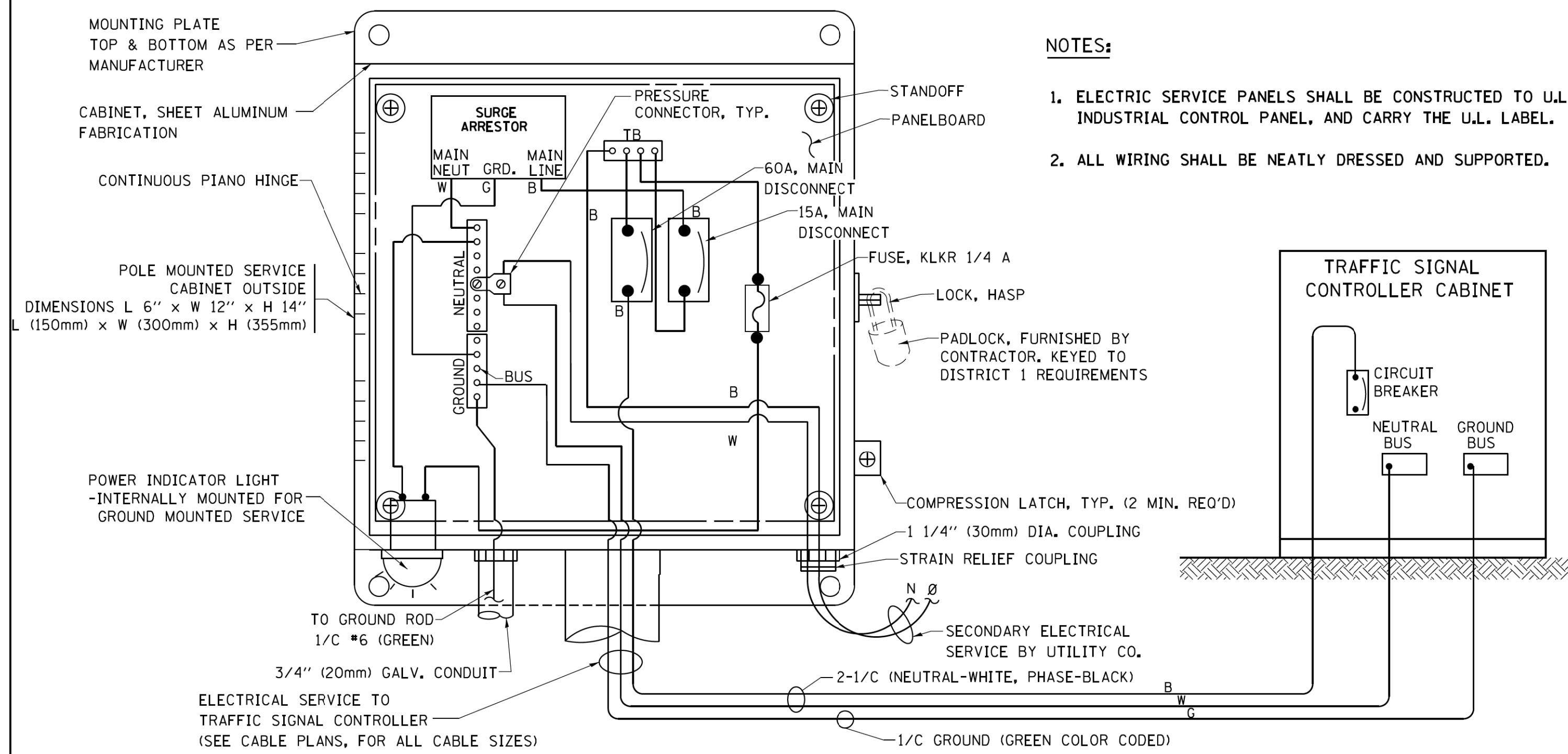
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

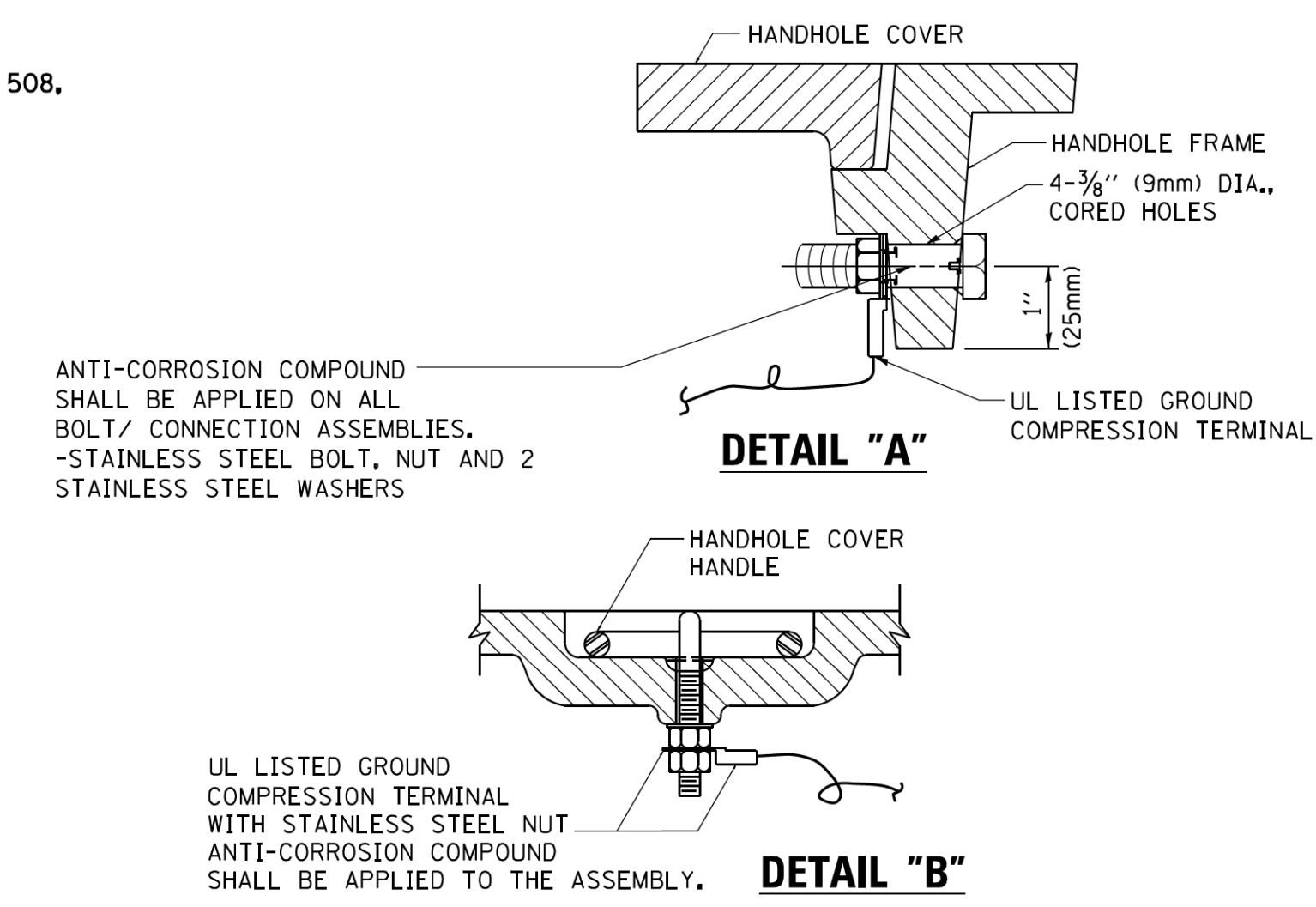
**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 50.0000 // in.	CHECKED - DAD	REVISED -	<b>TS-05</b>			<b>CONTRACT NO. 61E06</b>				
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	SCALE: NONE			SHEET NO. 3 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

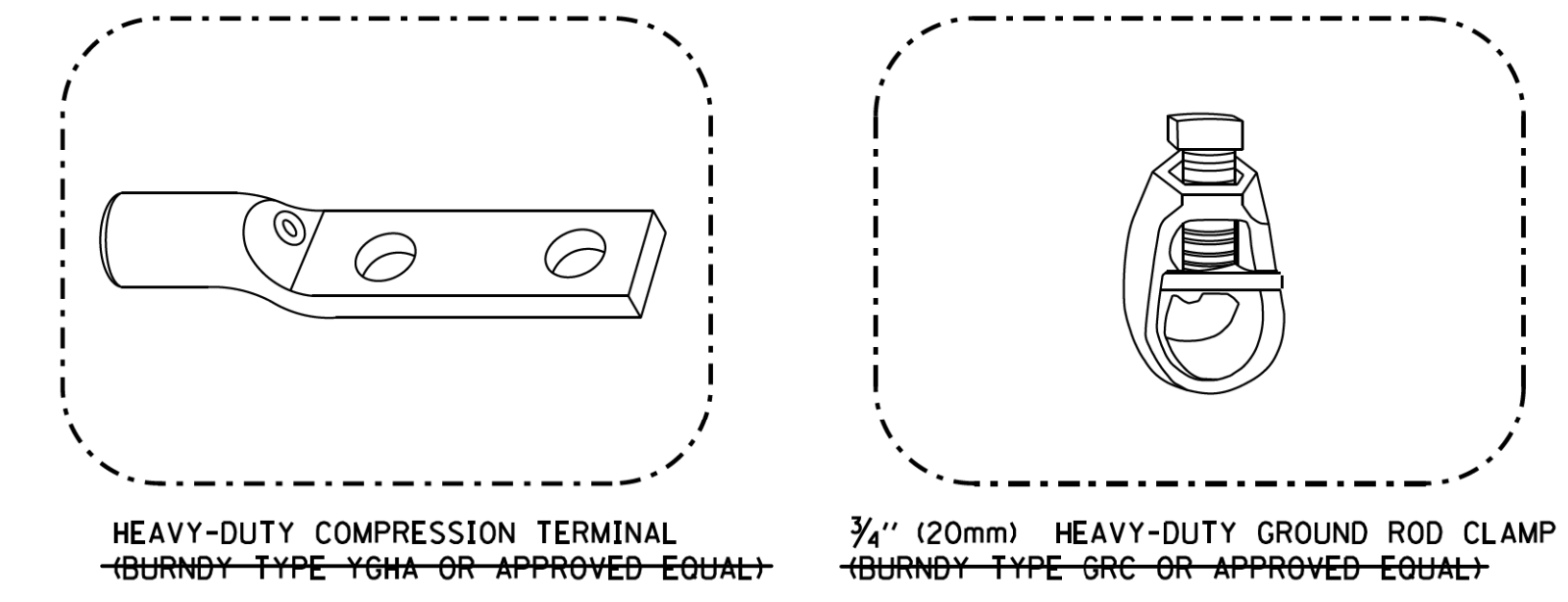
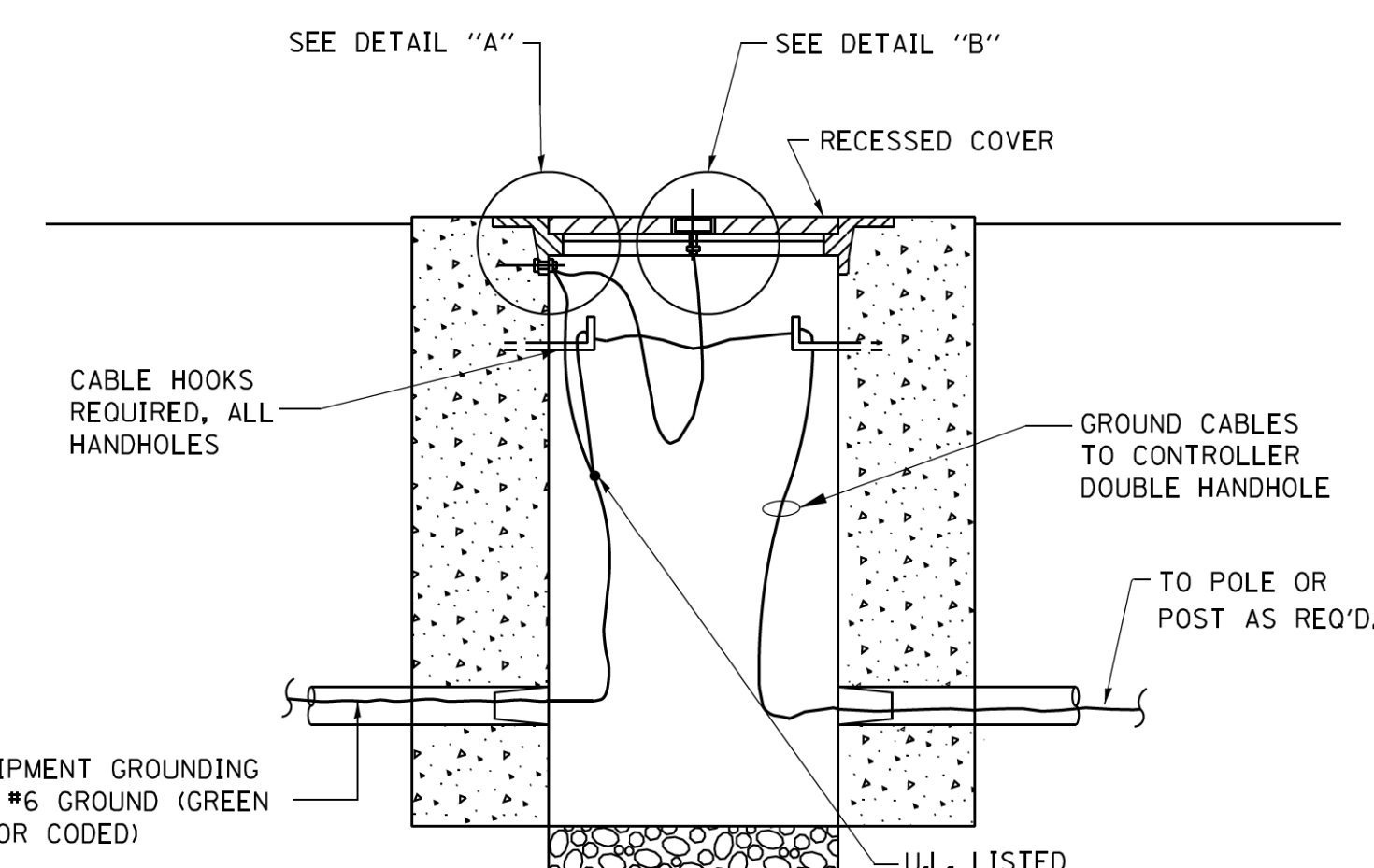


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**

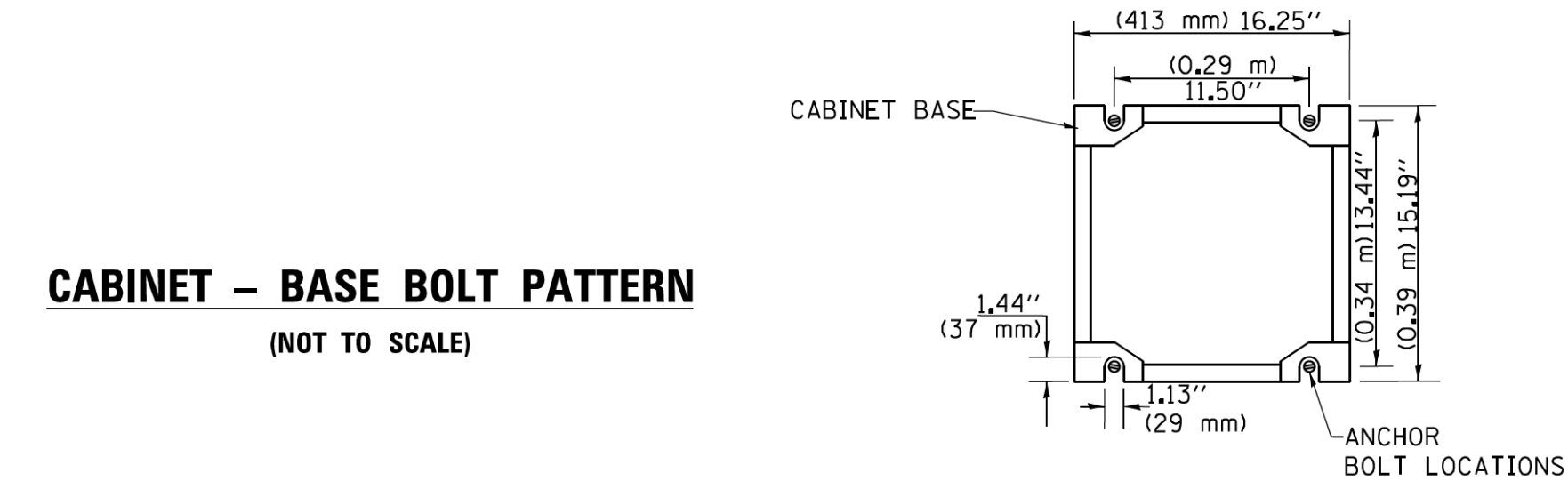
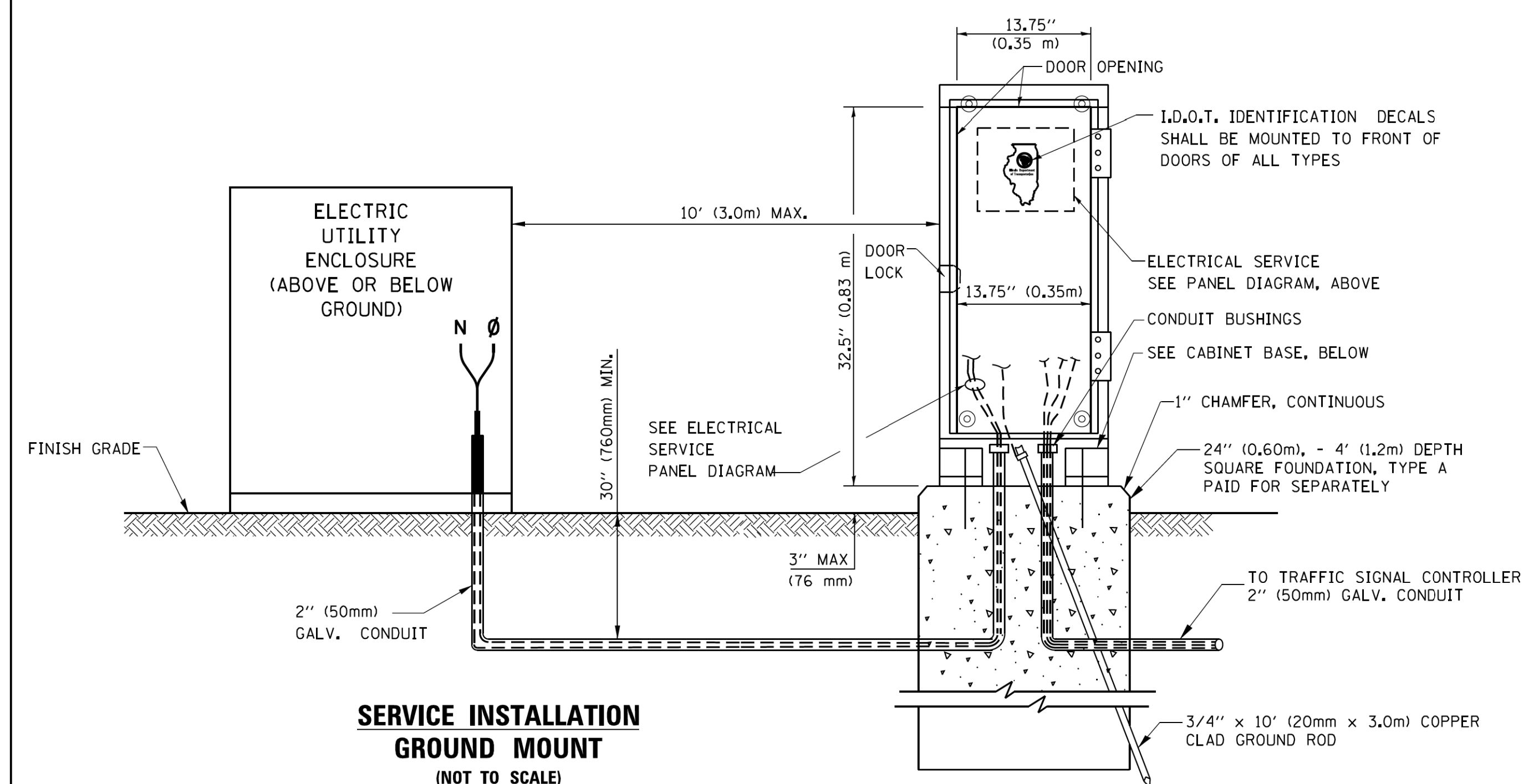
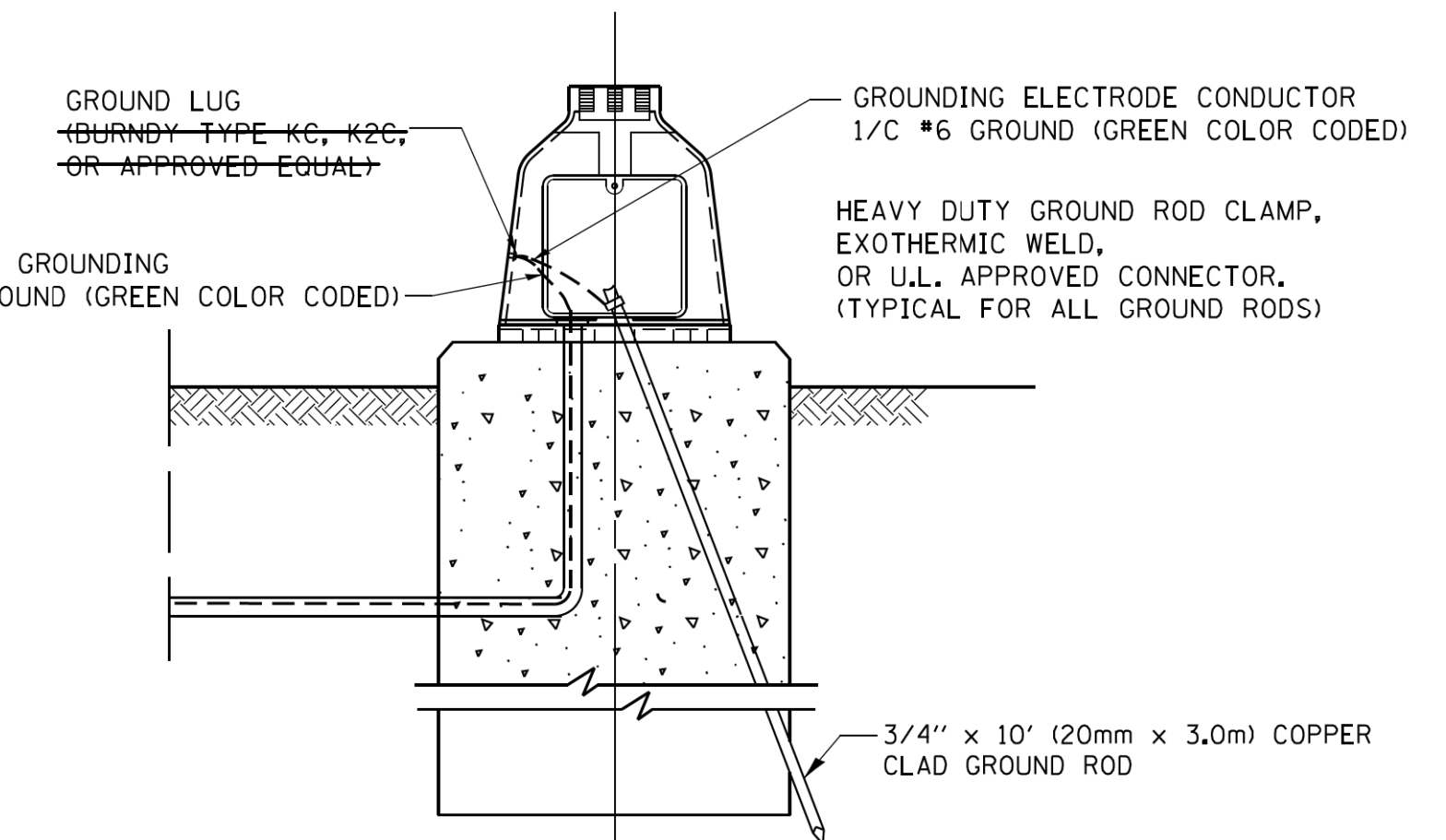
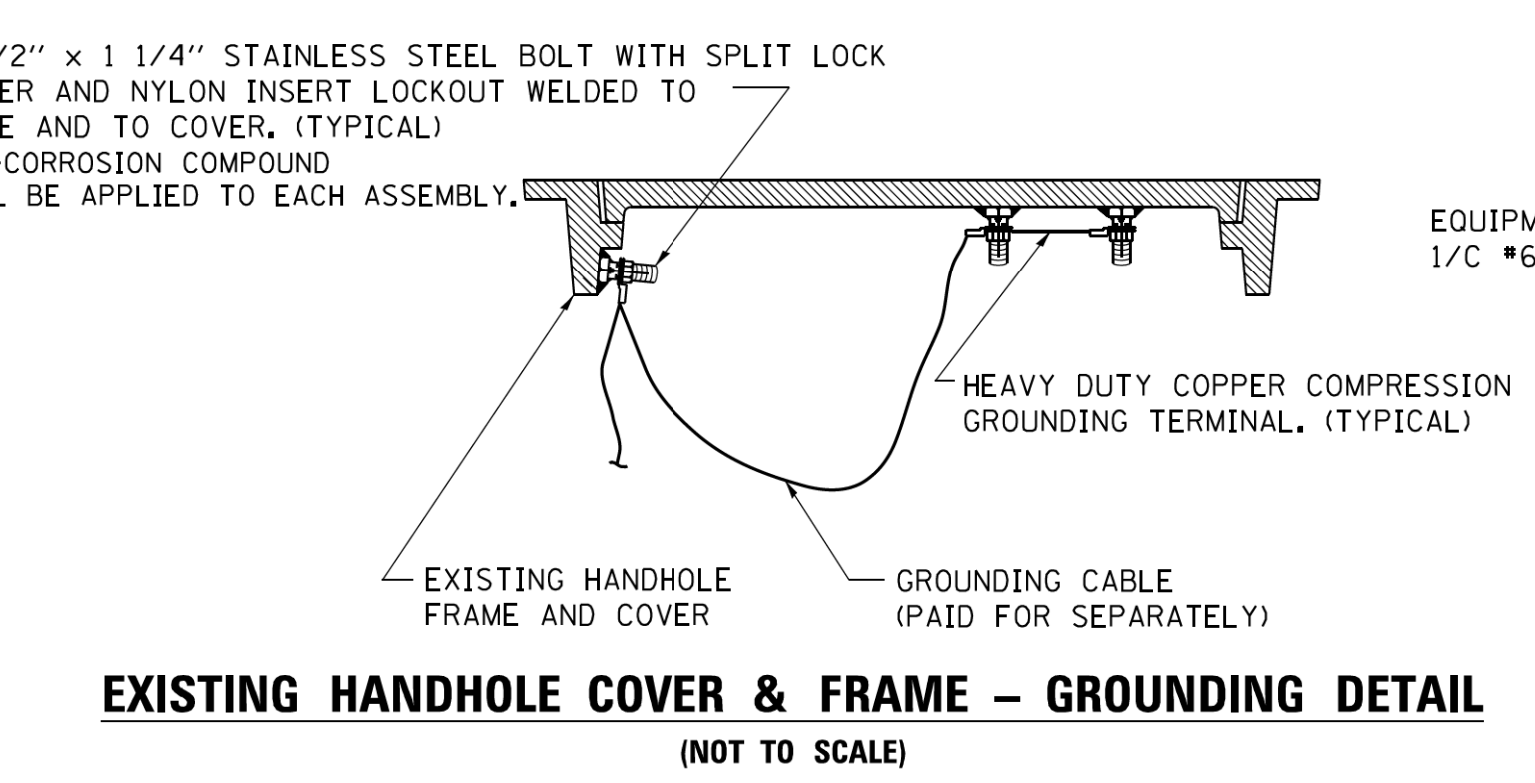


**NOTES:  
GROUNDING SYSTEM**

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



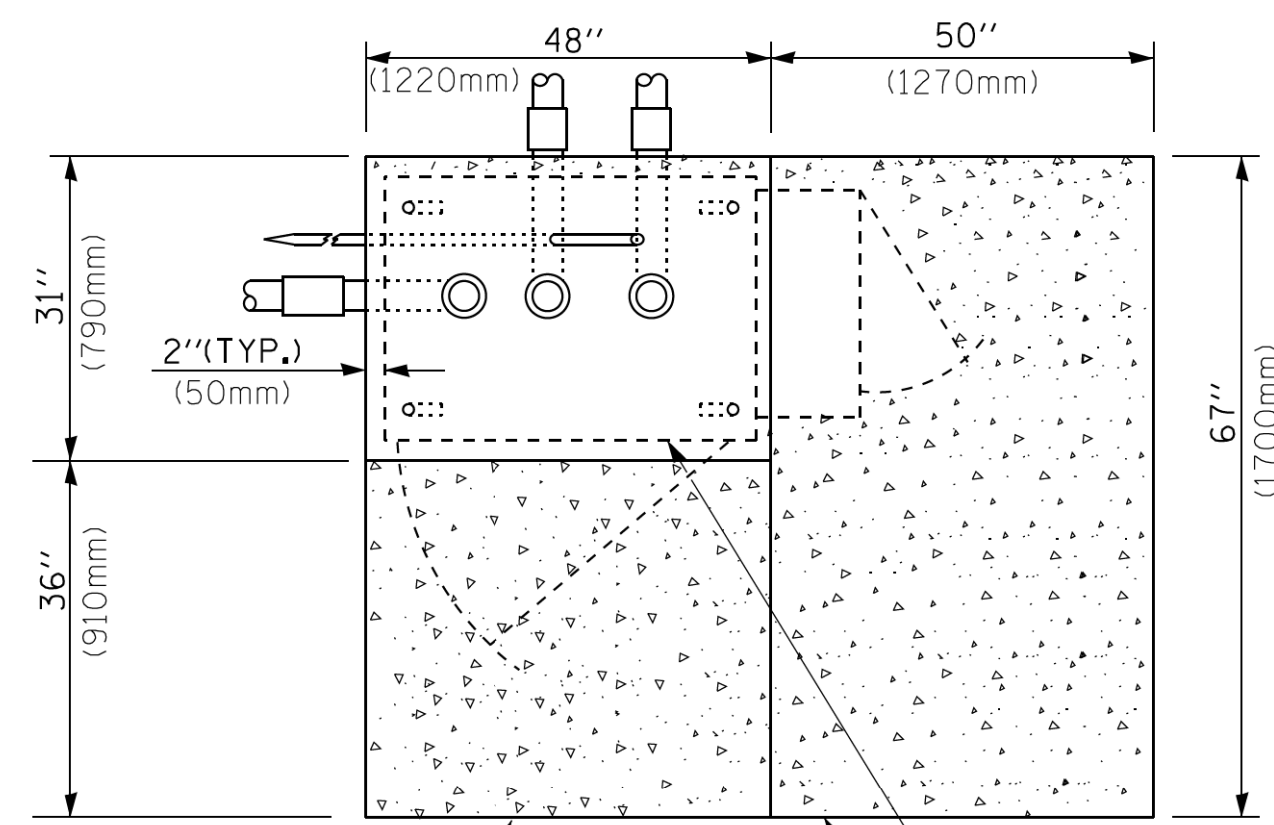
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

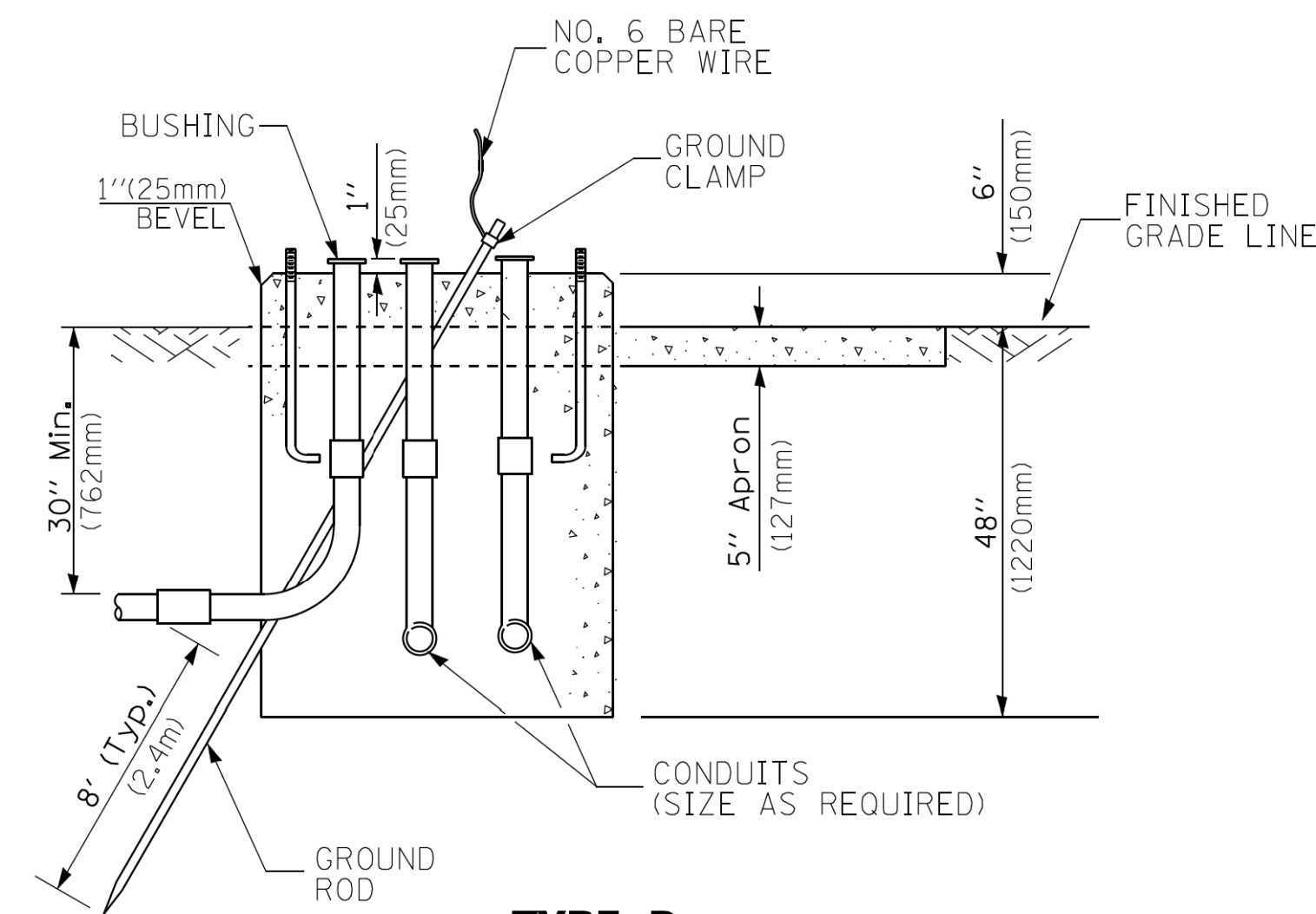
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

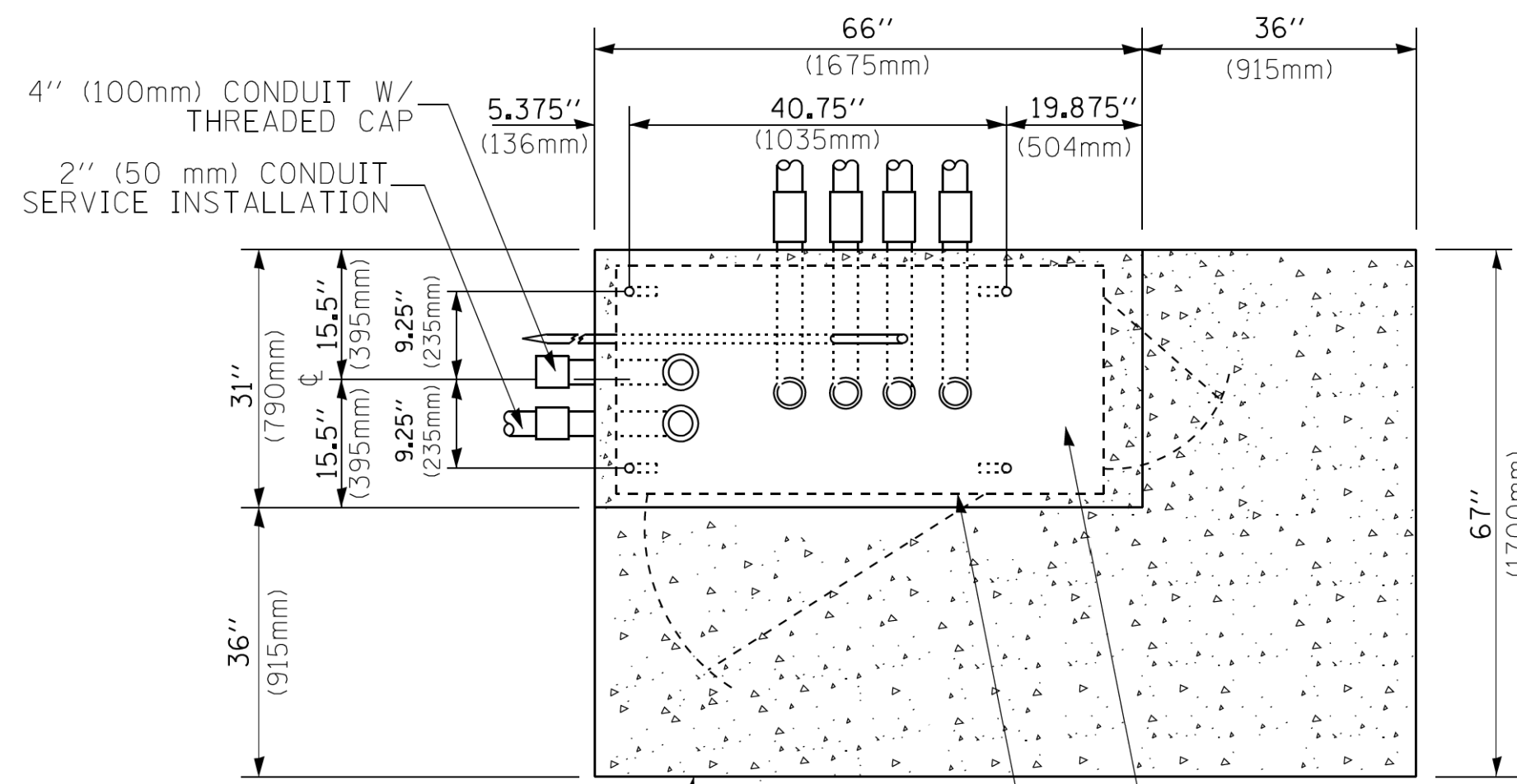
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	11-00302-04-CH	DUPAGE	341	252
<b>TS-05</b>		CONTRACT NO. 61E06		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TOP VIEW**



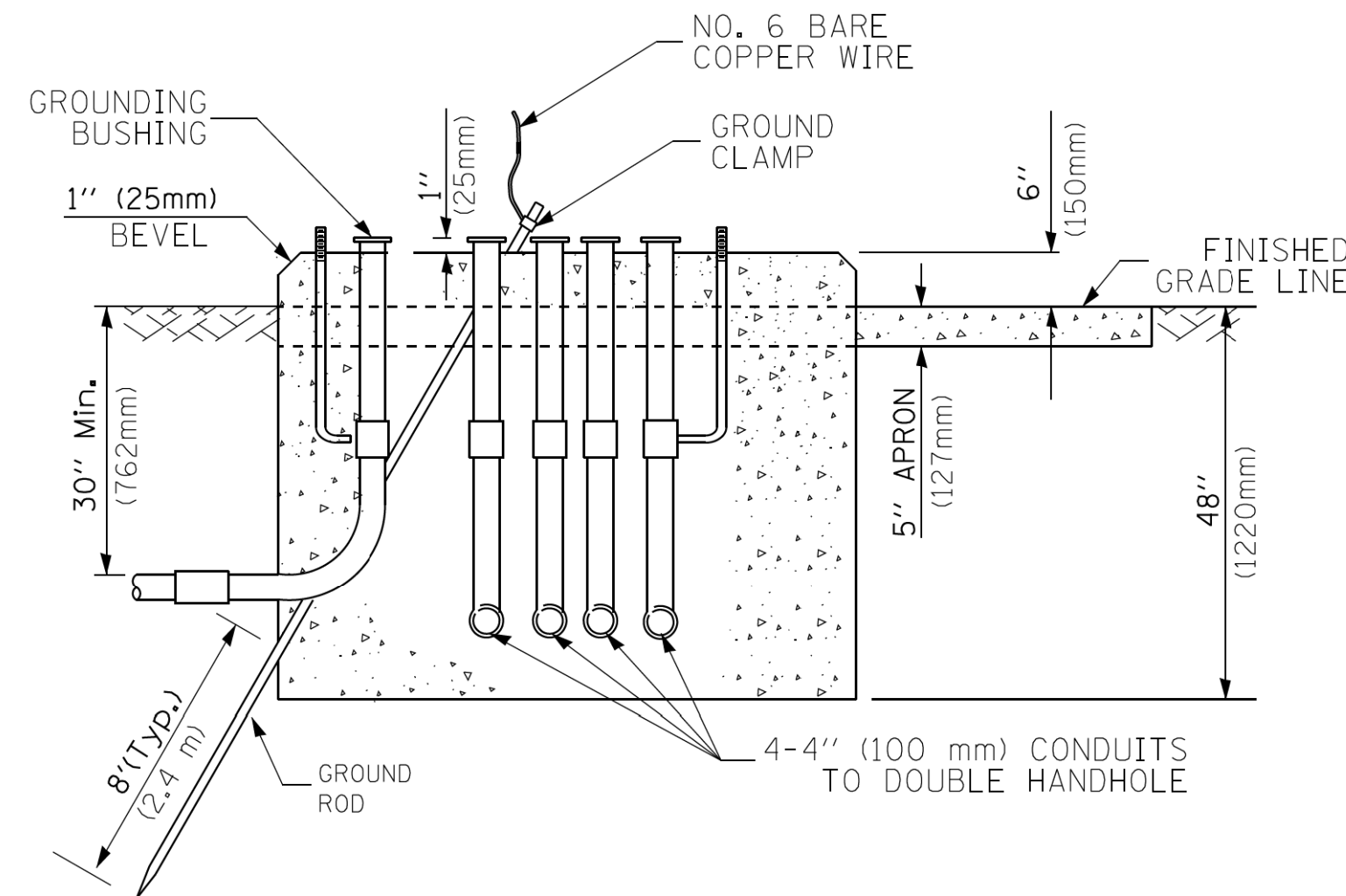
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



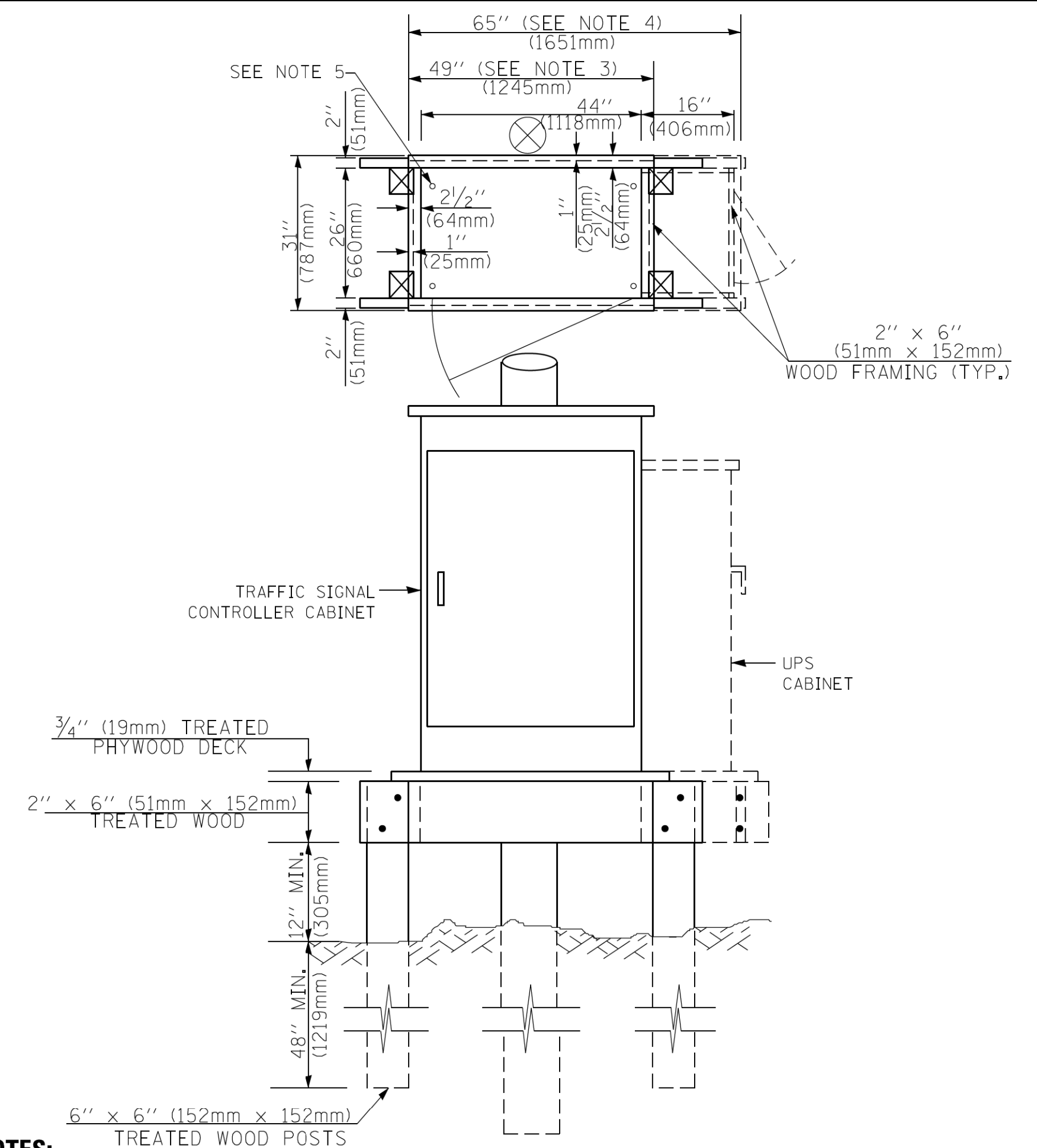
**TOP VIEW**

**NOTE:**

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

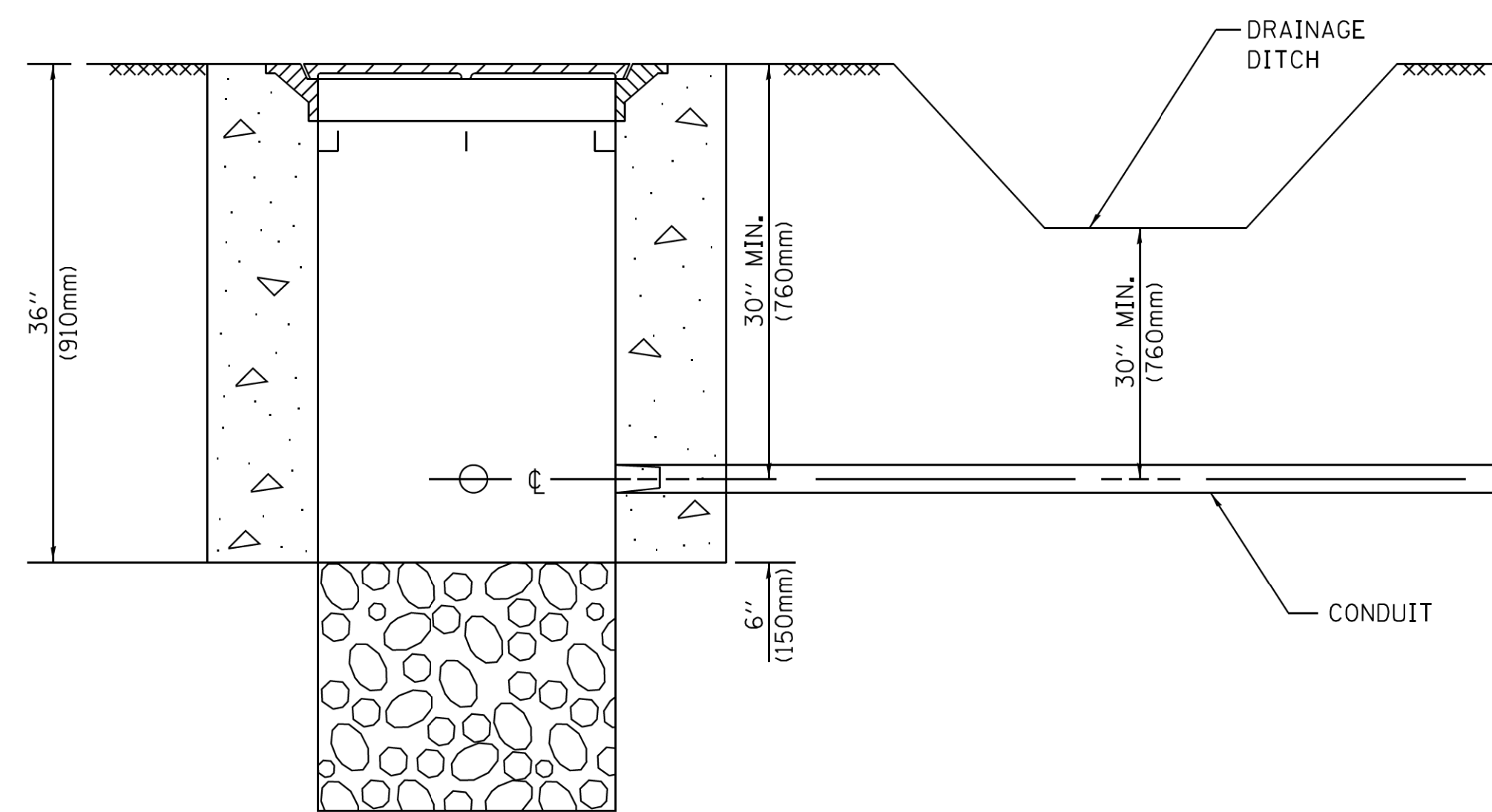
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ca:\pwwork\p\dott\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

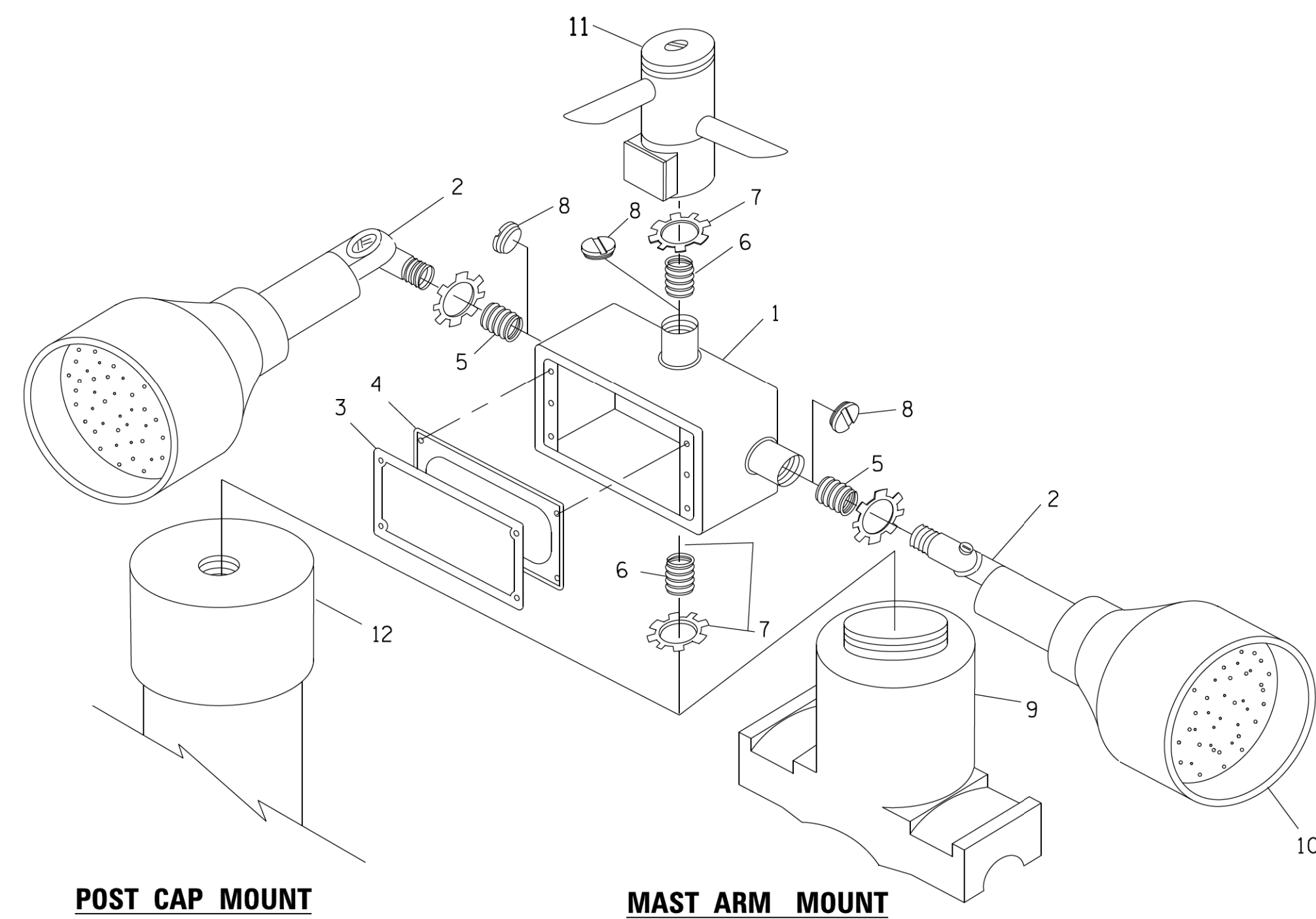
DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		1405	11-00302-04-CH	DUPAGE	341	253
SCALE: NONE		SHEET NO. 5 OF 7 SHEETS		STA. TO STA.	CONTRACT NO. 61E06	
		FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



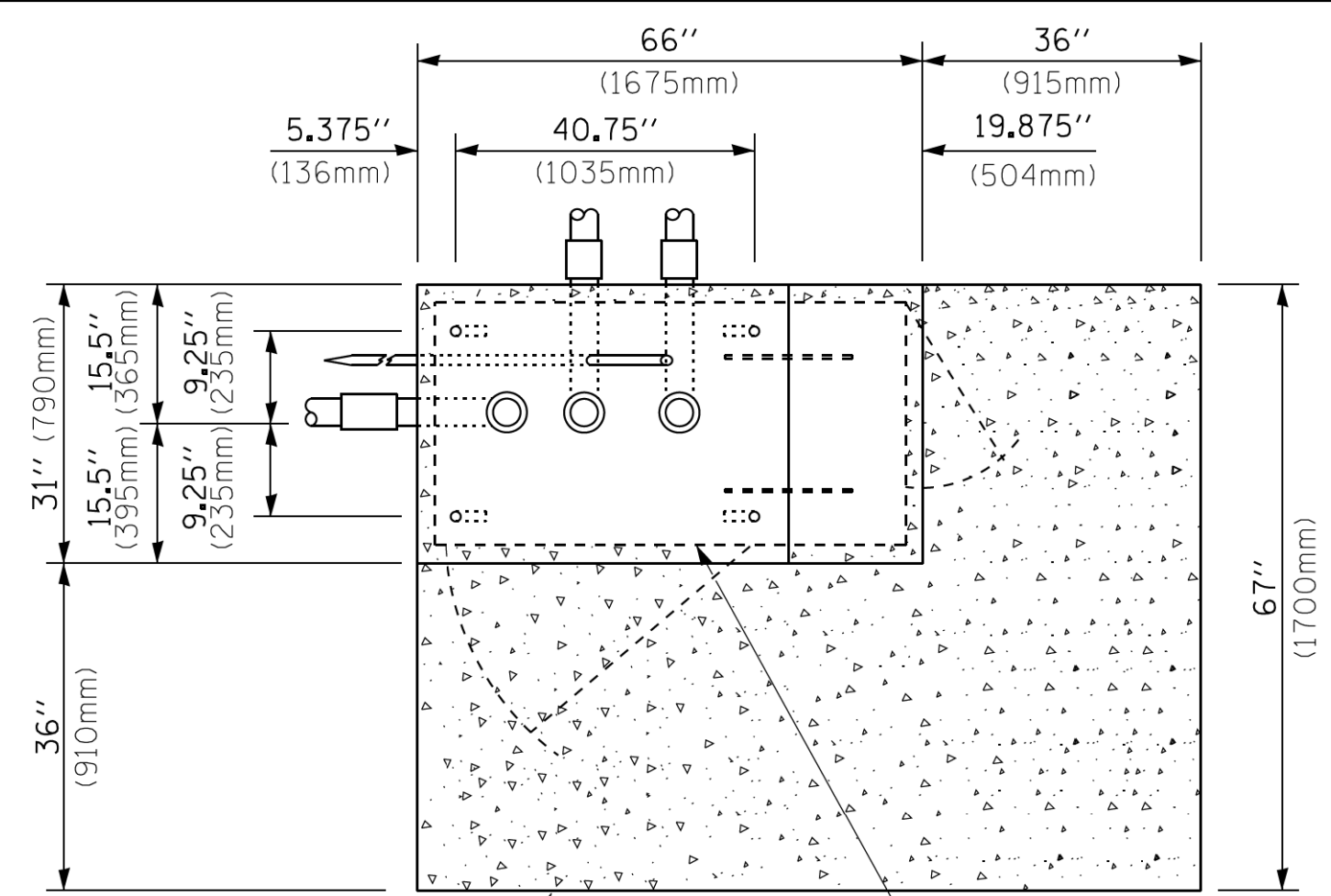
**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

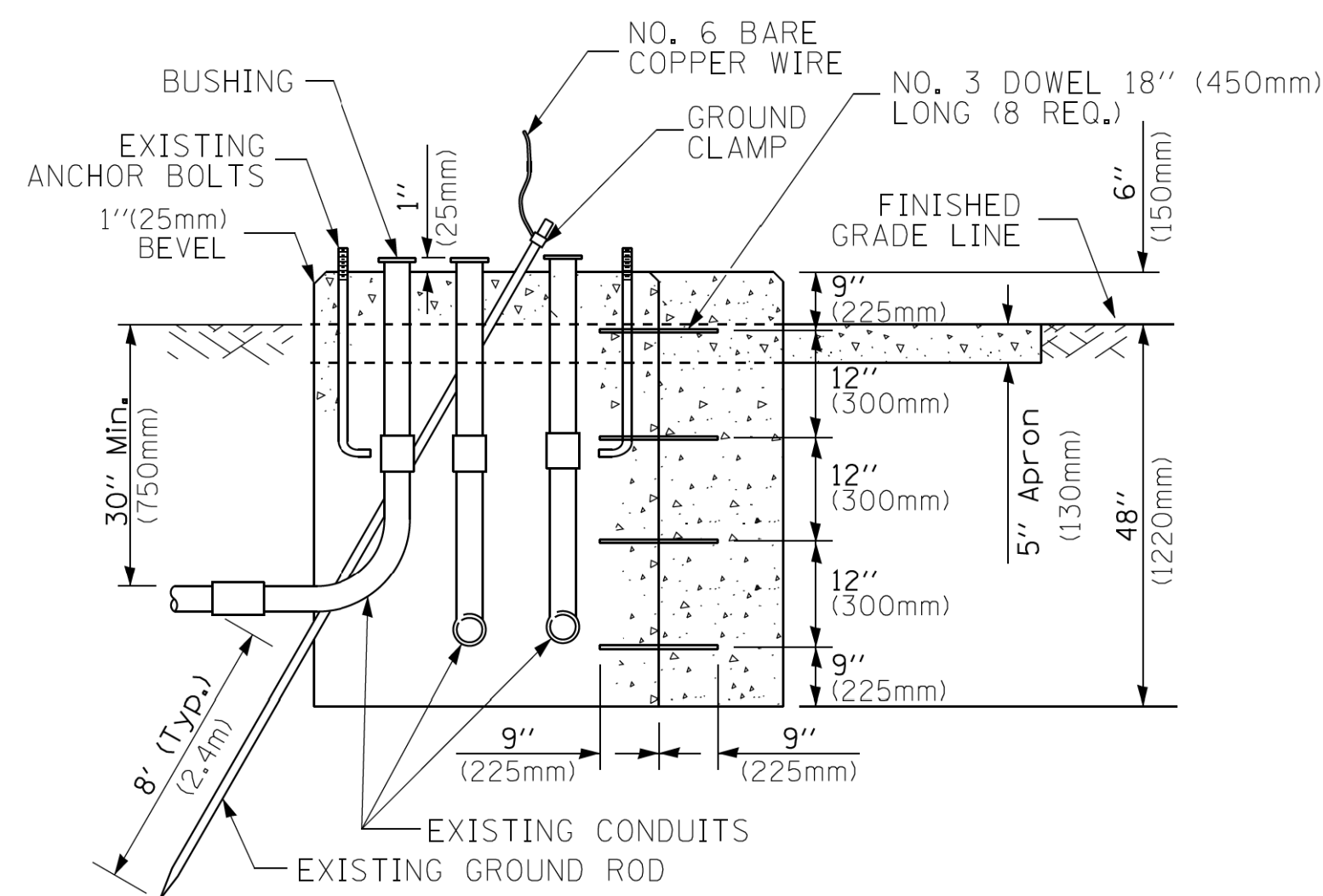
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**TOP VIEW**  
(NOT TO SCALE)

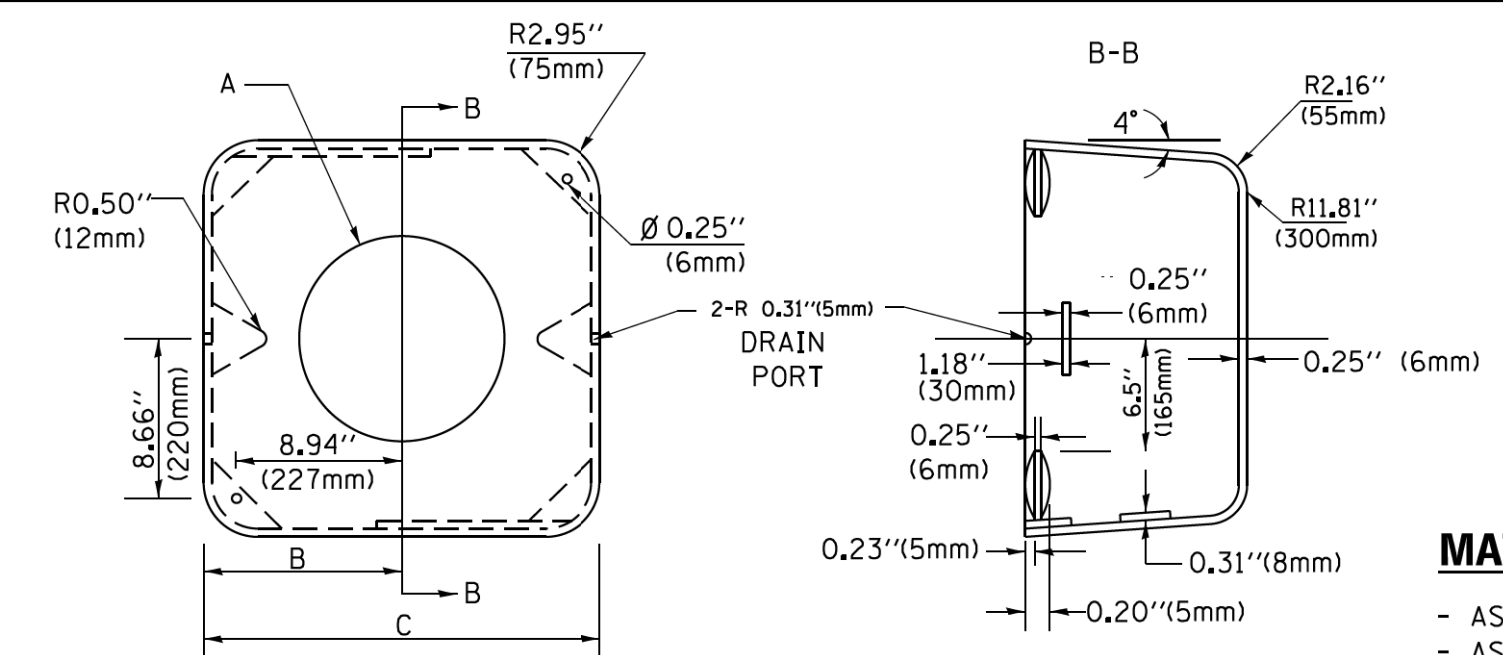


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5,4 m) POST MIN.]

**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1 OZ/GEDNEY FSX 1-50 OR EQUIVALENT  
ITEM #2 MULBERRY CON 0 SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9 "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

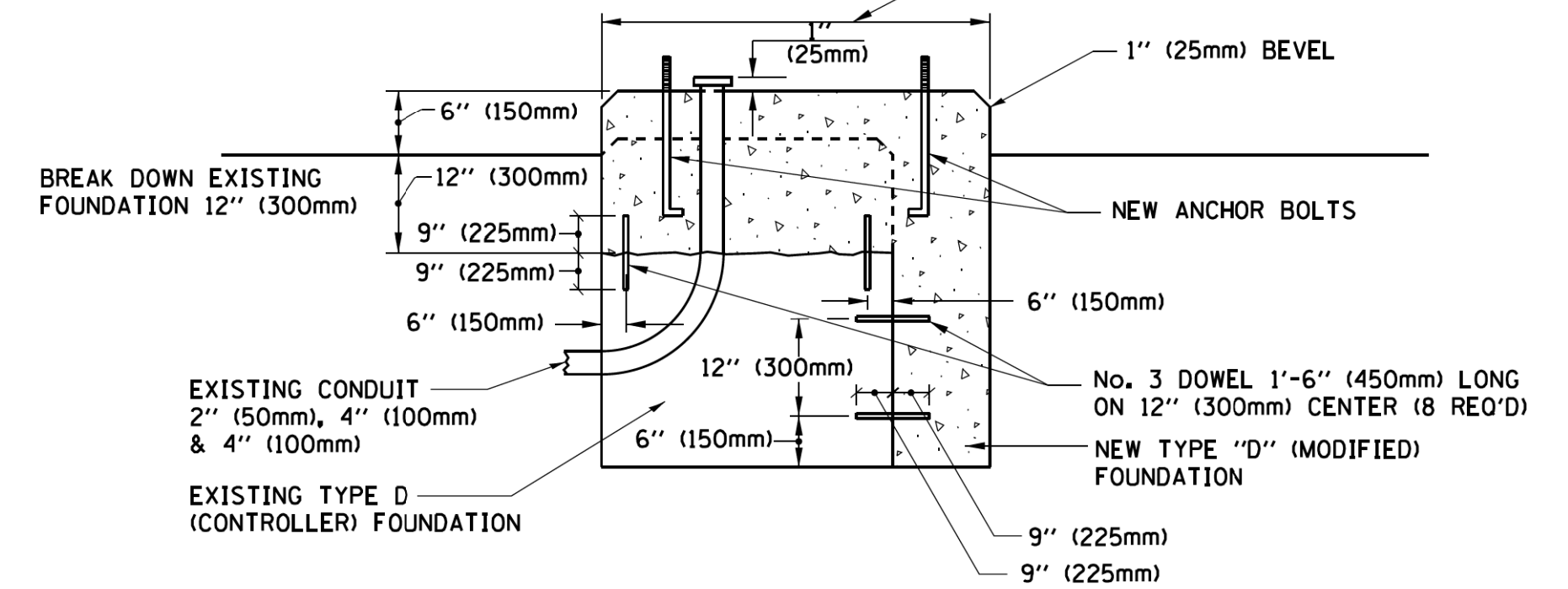
**SHROUD**

**NOTES:**

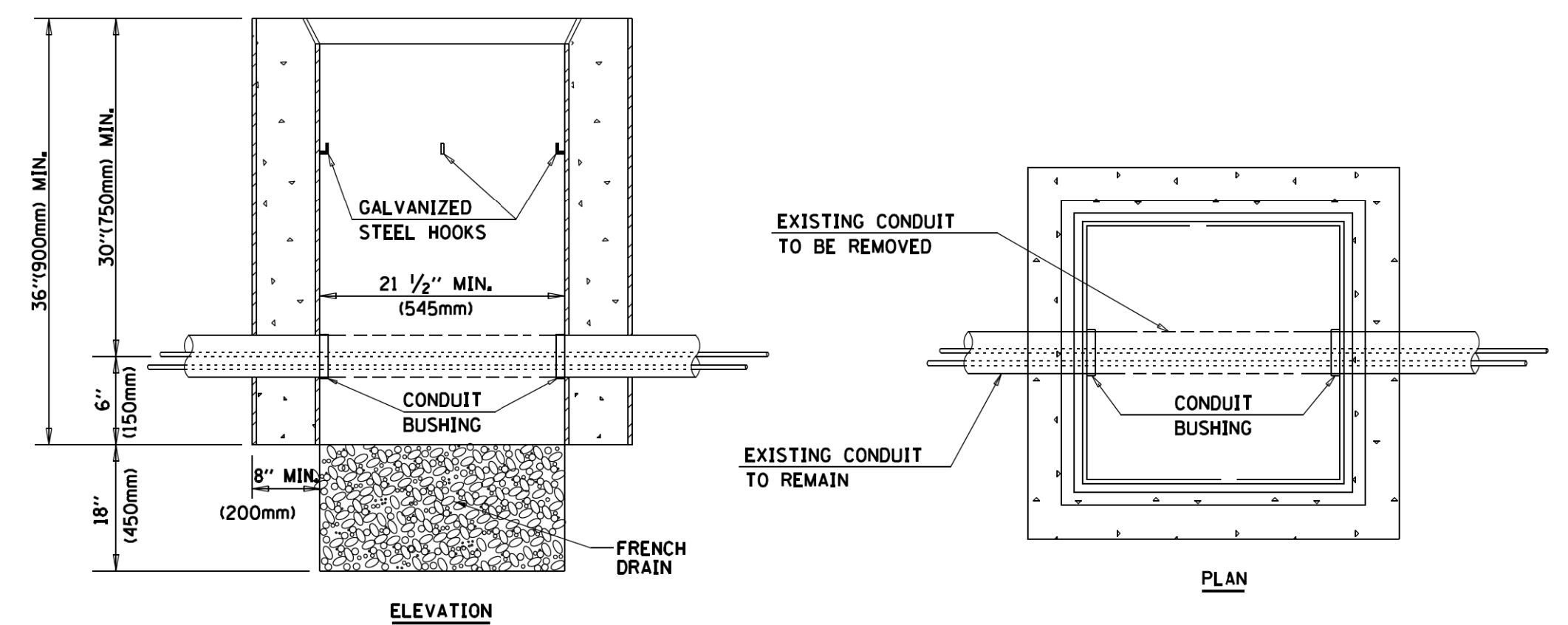
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

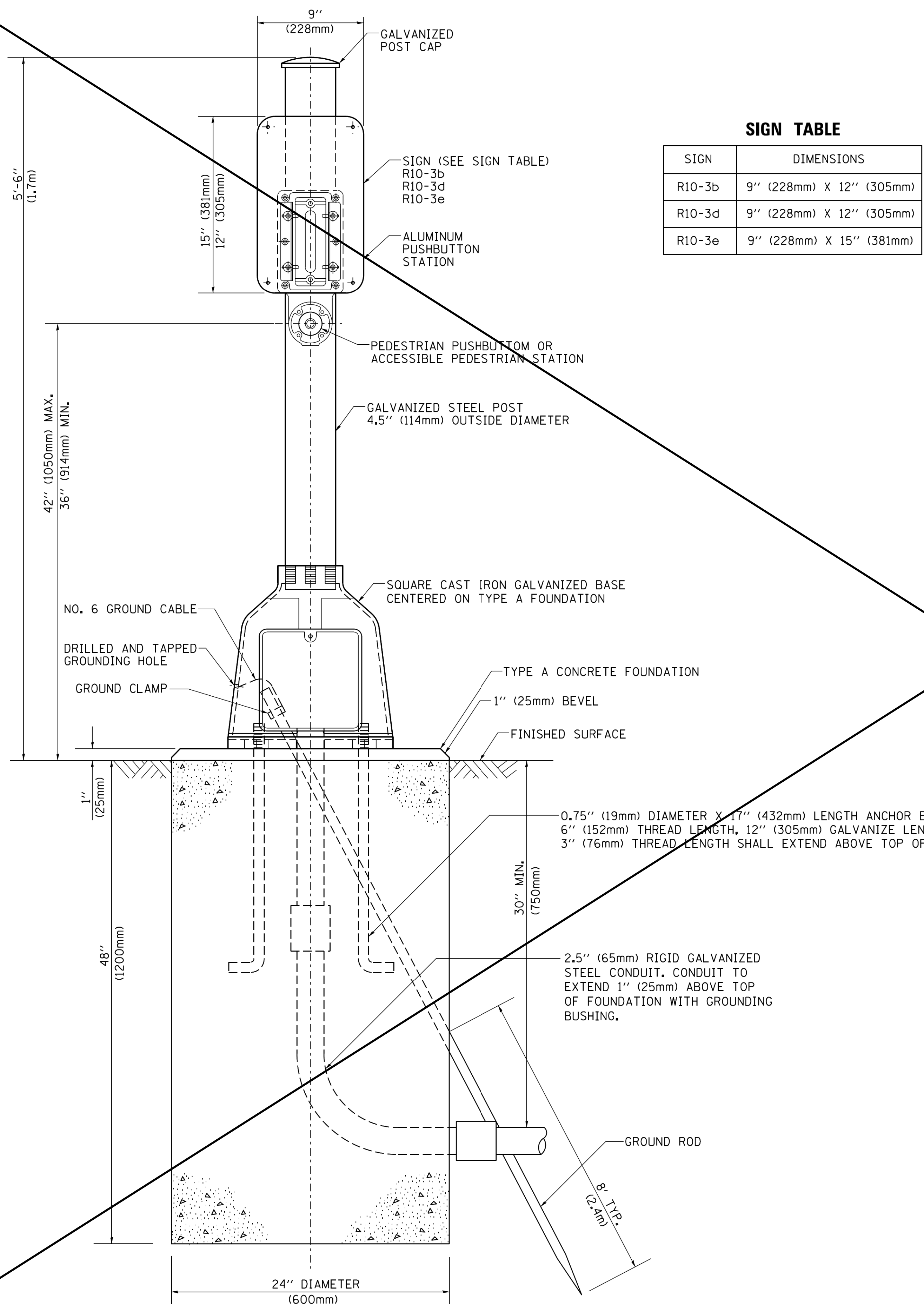
1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pwwork\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

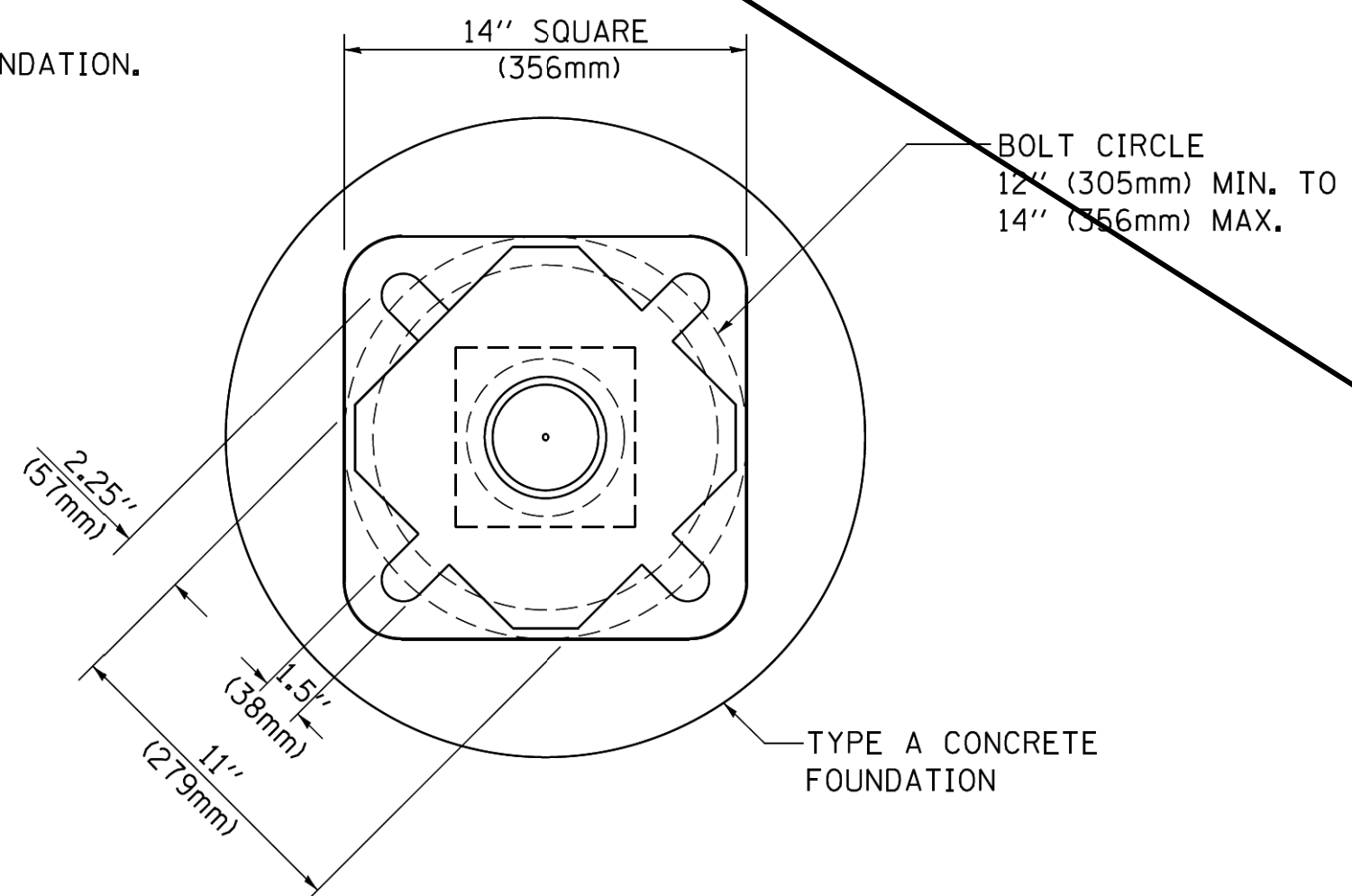
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		1405	11-00302-04-CH	DUPAGE	341	254
SCALE: NONE		TS-05		CONTRACT NO. 61E06		
SHEET NO. 6 OF 7 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ci:\pwork\pwork\footemj\d0128315\ts05.dgn		DRAWN - GND	REVISED -
PLOT SCALE = 50.0000 / 1 in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

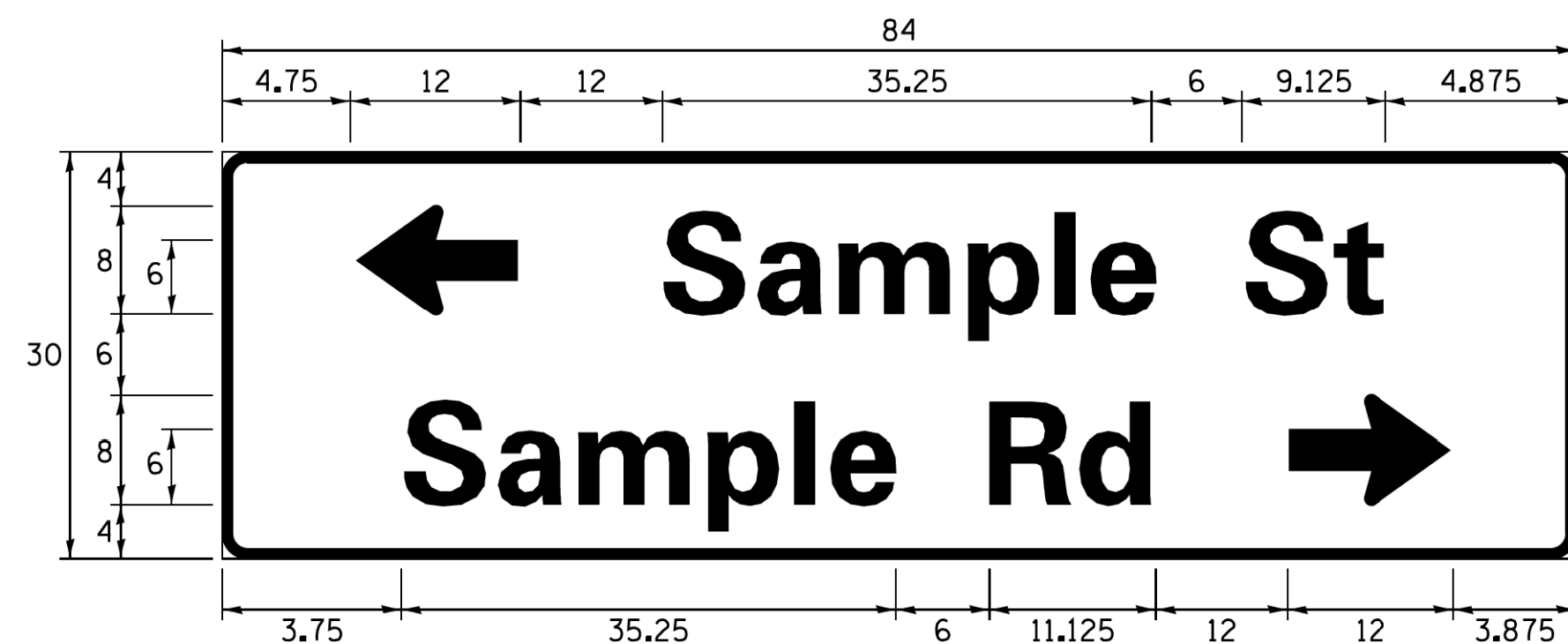
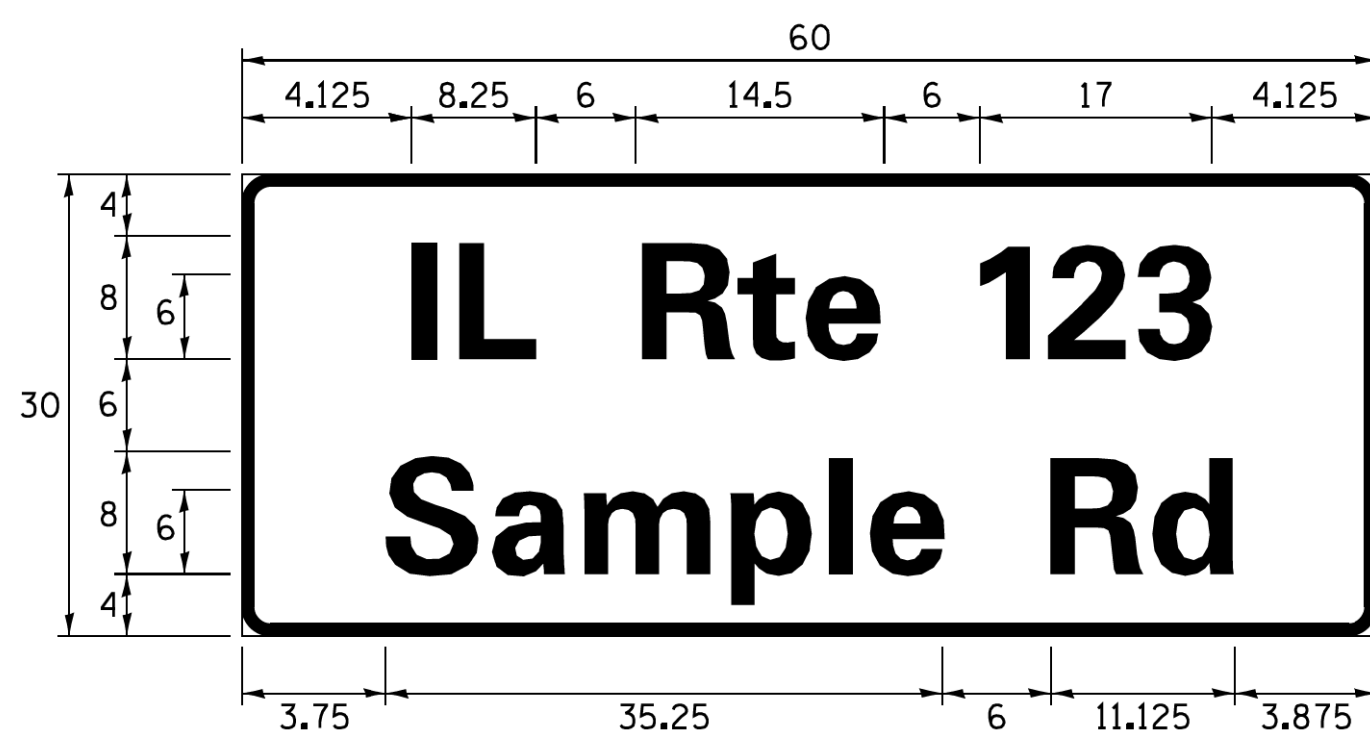
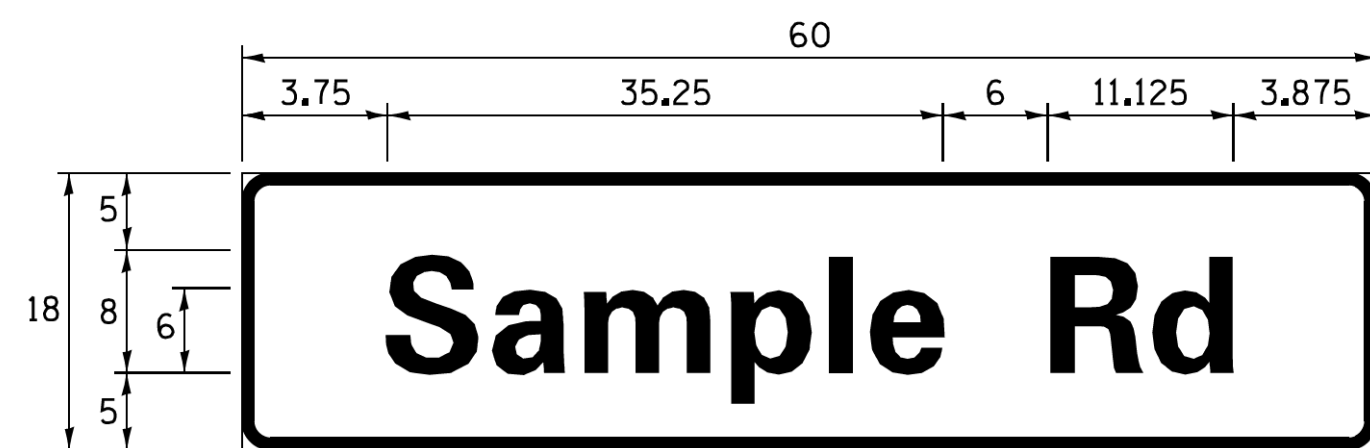
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1405	11-00302-04-CH	DUPAGE	341	255
<b>TS-05</b>		<b>CONTRACT NO. 61E06</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blyd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

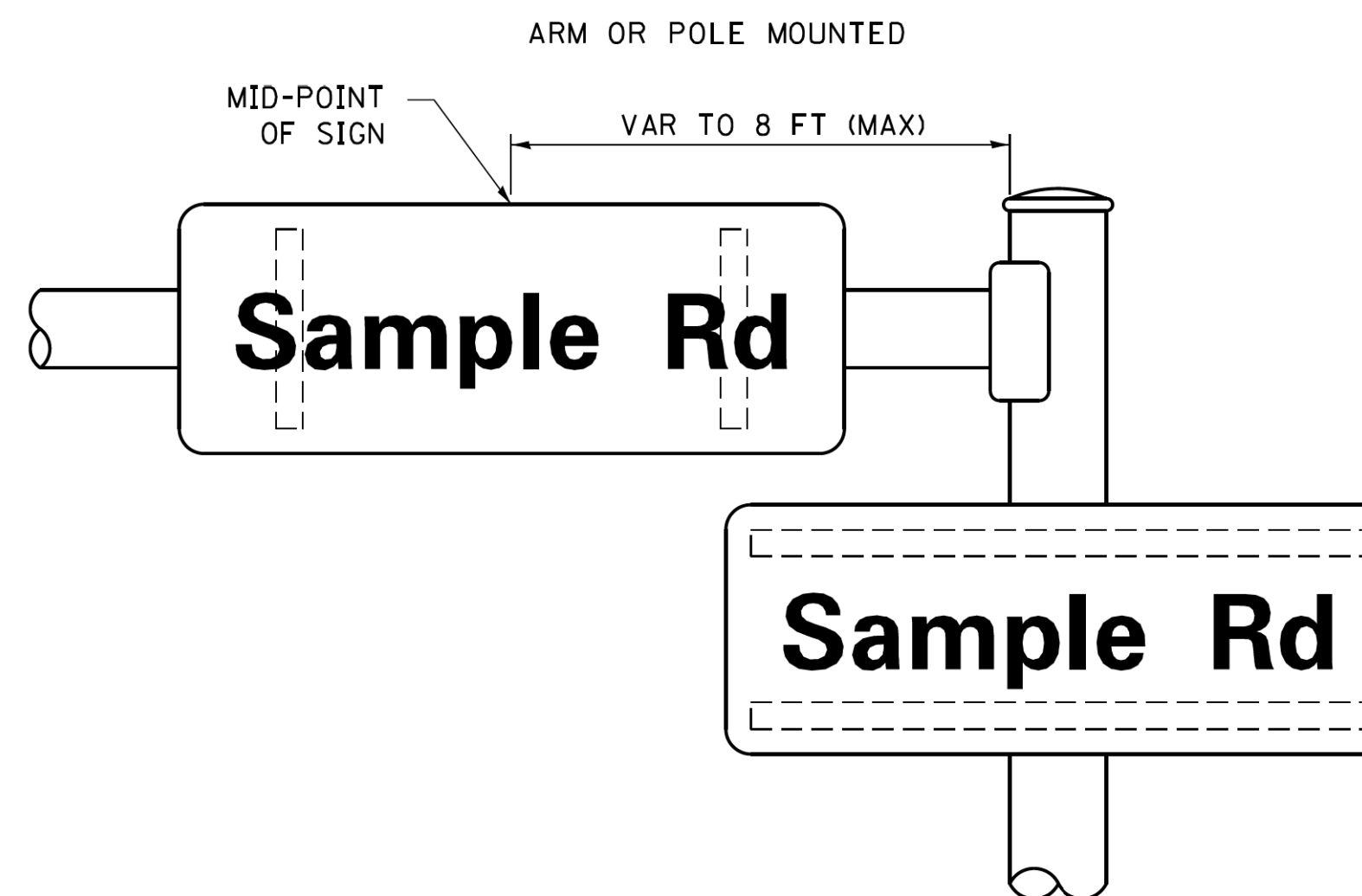
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

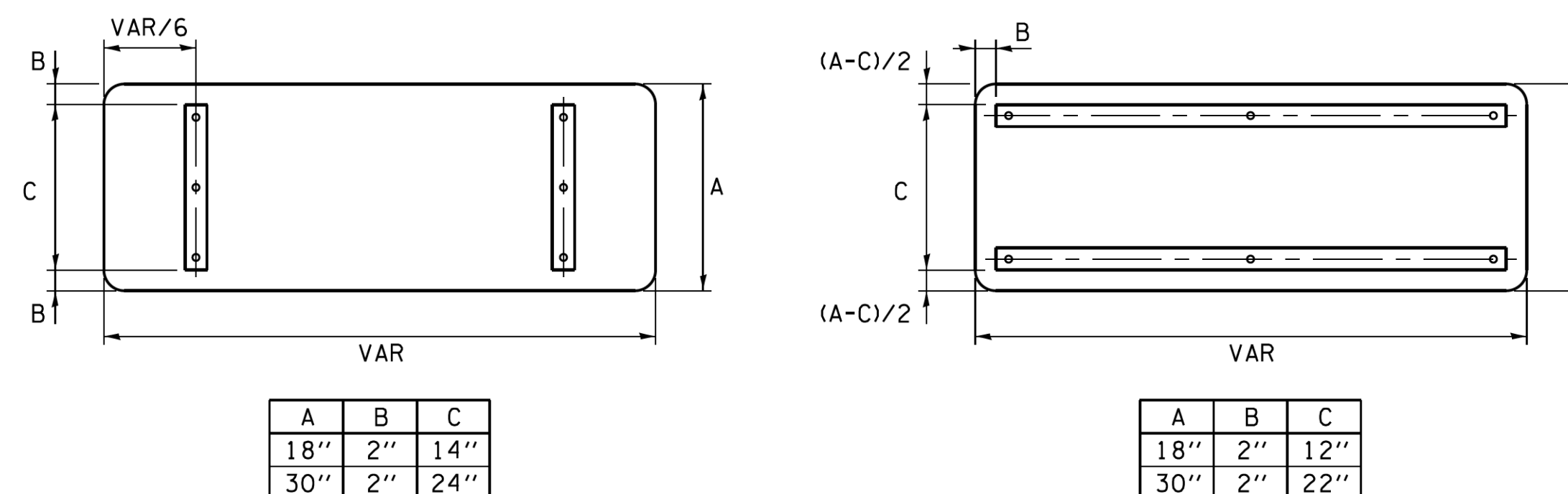
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS SELF TAPPING WITH NEOPRENE WASHER
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING PART #HPN034 (UNIVERSAL)

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



**STANDARD ALPHABETS SPACING CHART**

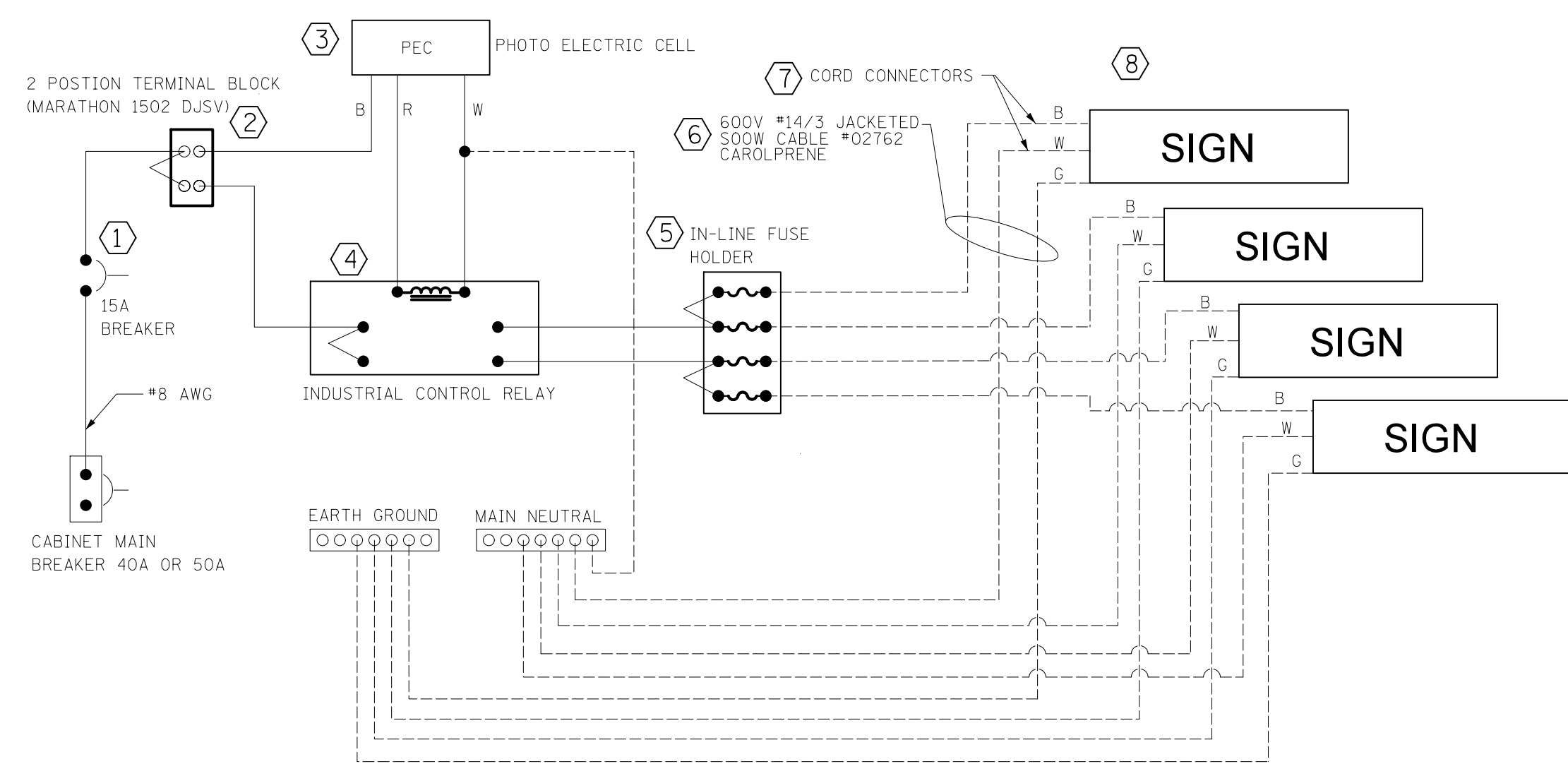
(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240



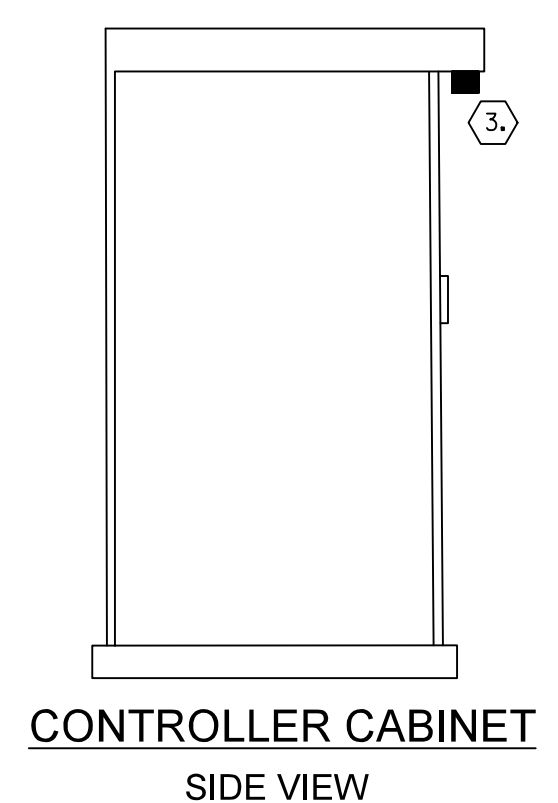
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NO. OF WAY CHECKED	
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STRUCTURE NOTATIONS CHKD	

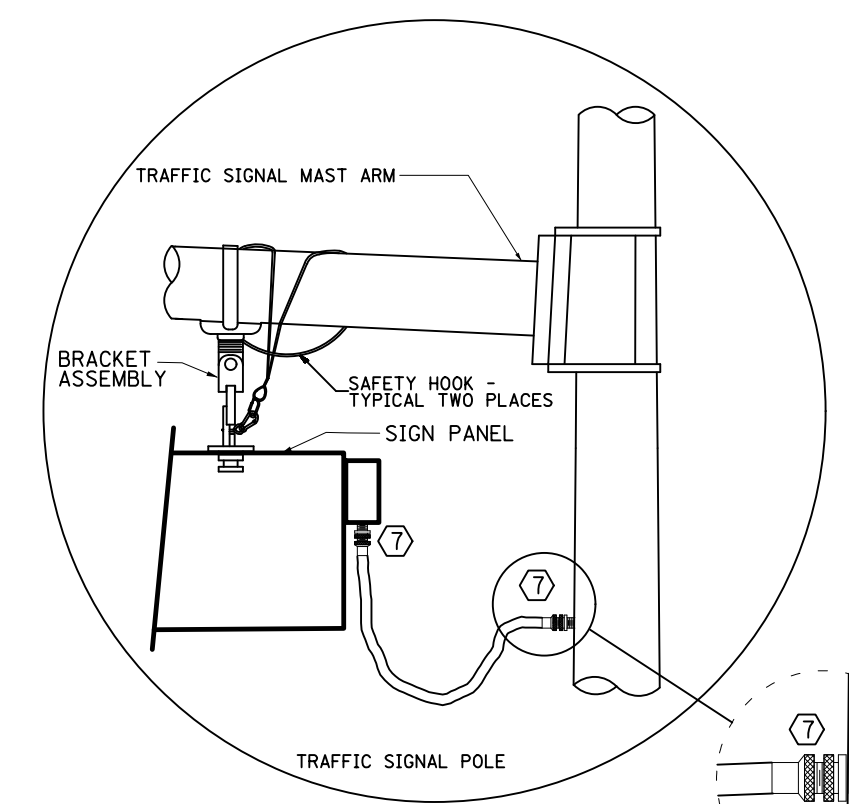


LED SIGN WIRING DETAIL

DESCRIPTION	NOTES
1. CIRCUIT BREAKER, 15 AMPERE	
2. TERMINAL BLOCK	
3. PHOTO ELECTRIC CONTROL	
4. CONTRACTOR (INDUSTRIAL CONTROL RELAY)	BOLT ON W/SCREW TERMINAL
5. INLINE FUSE HOLDER WITH 5 AMP FUSE	
6. ELECTRIC CABLE, No. 14, 3/C (BLACK, WHITE, GREEN)	
7. CORD/CABLE CONNECTOR	
8. SIGN MOUNTING HARDWARE	



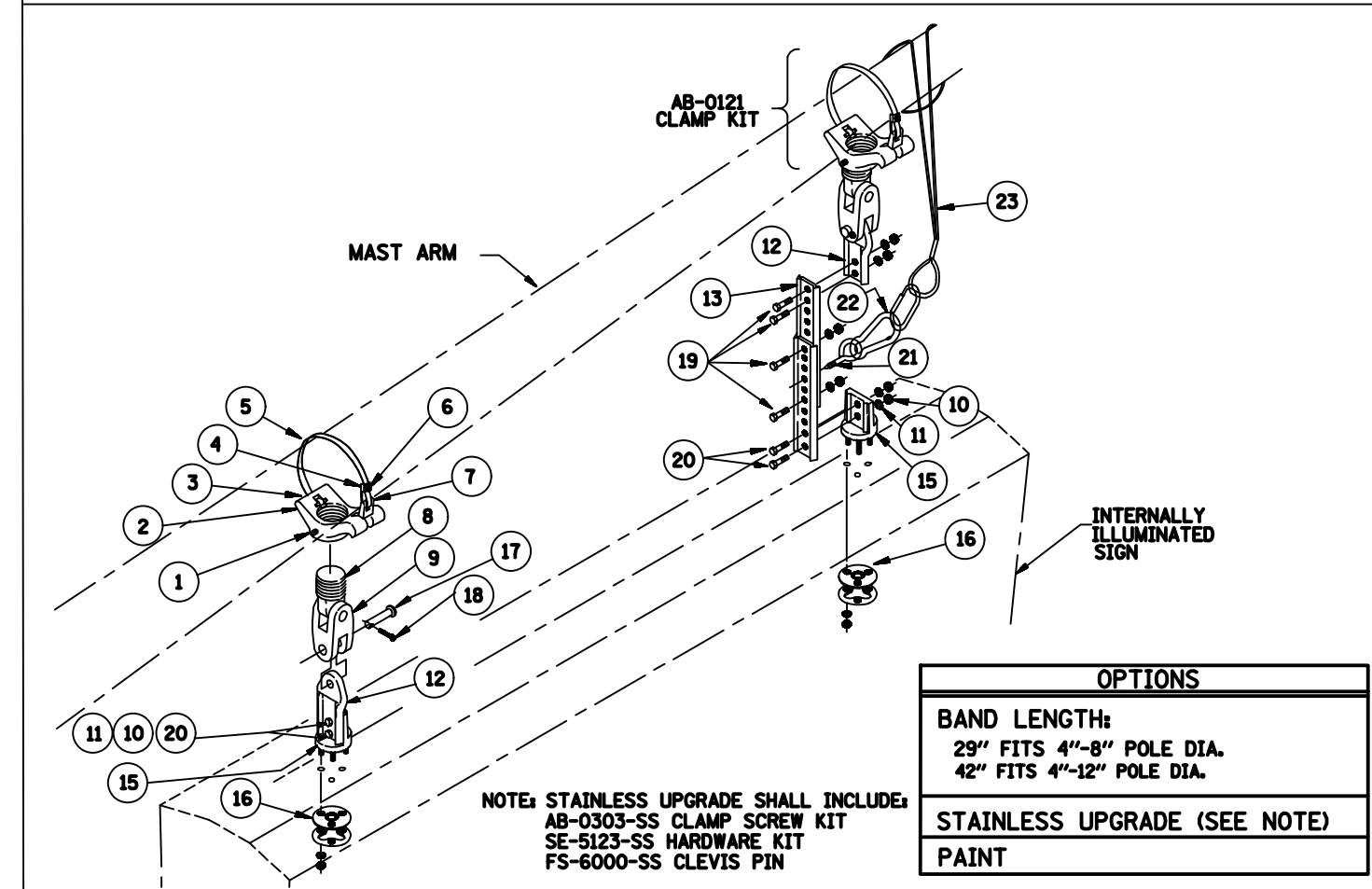
CONTROLLER CABINET SIDE VIEW



LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)

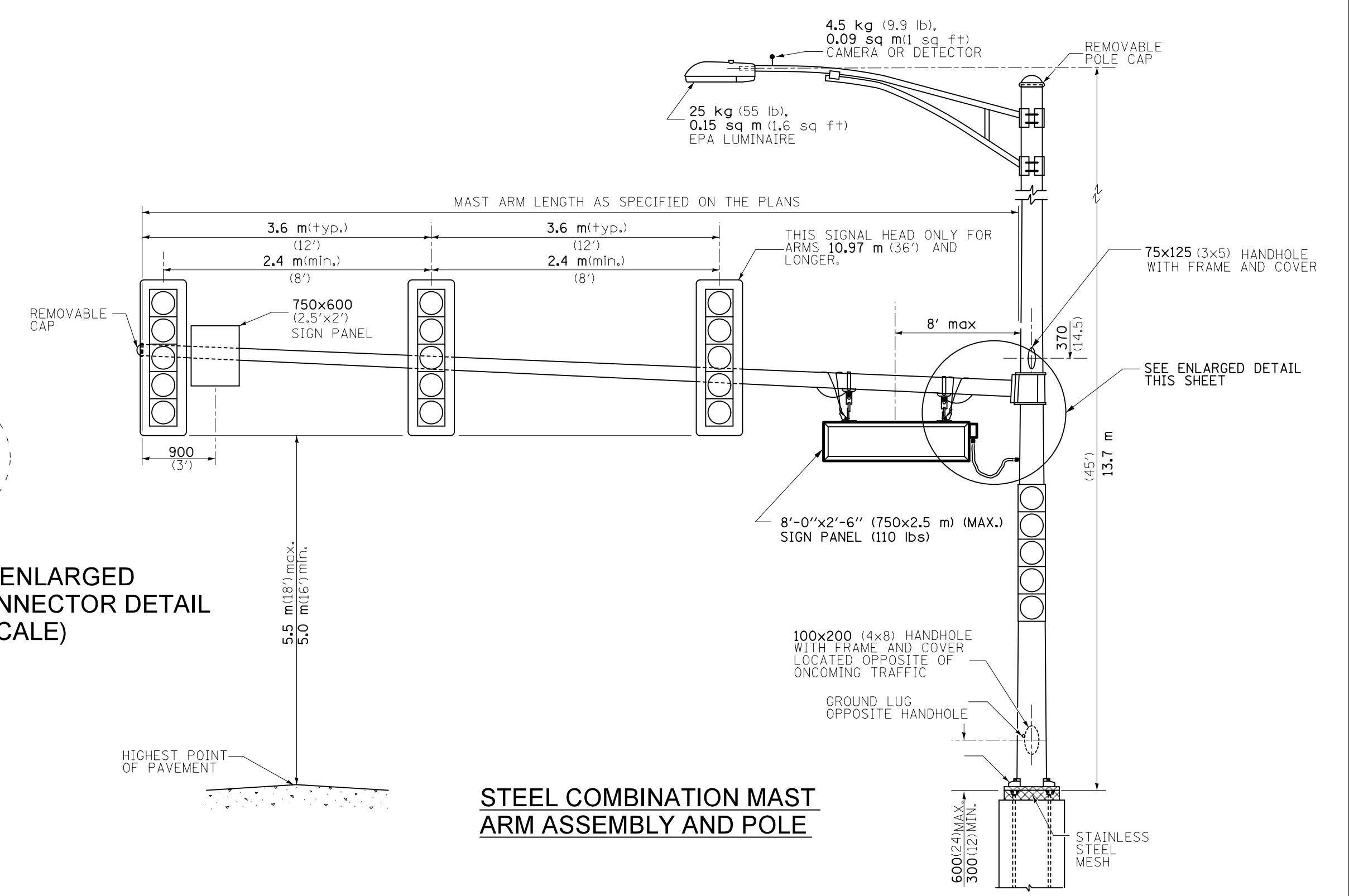
LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)

TITLE: BRACKET, FREE-SWINGING MAST ARM SIGN W/BAND MOUNT MINI-BRAC

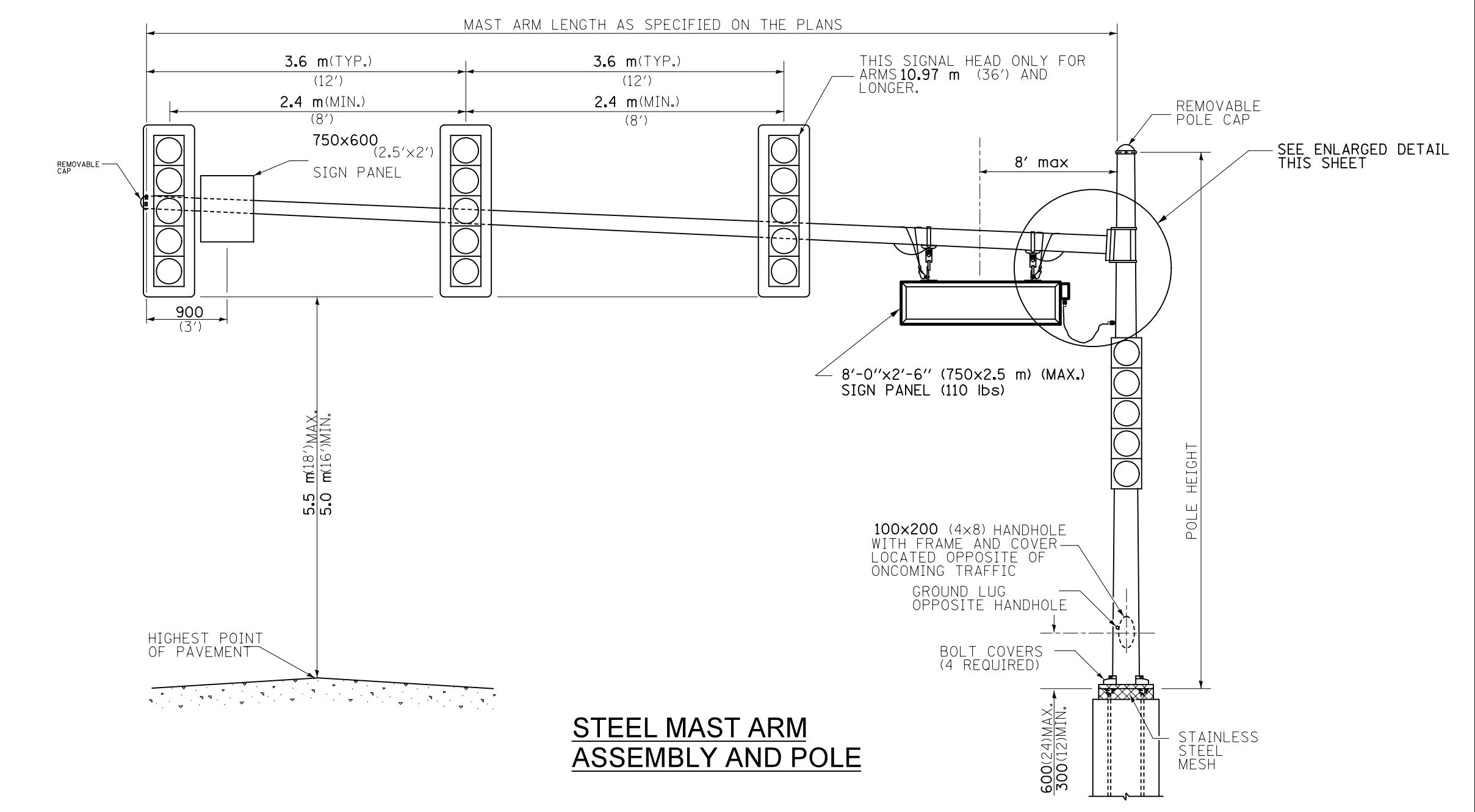


ITEM	DESCRIPTION	QTY
1	SCREW, SET SQ HD 1/4"-20 X 5/8", STAINLESS	2
2	CLAMP, MINI-BRAC BAND MOUNT, 1 1/2" NPS, ALUM	2
3	PIN, GROOVE 3/16" x 1 1/4", ZINC1	2
4	CLAMP, BAND 5/8", STAINLESS	2
5	BAND, 5/8", STAINLESS	2
6	SCREW, SET SOC HD 5/16"-18, STAINLESS	2
7	KIT, CLAMP SCREW FOR MINI-BRAC, GALV	2
8	ADAPTER, SPAN WIRE, DIE CAST ALUM W/ SS INSERT	2
9	CLEVIS-CLEVIS, 1/2" x 1/2", ALUM W/ STAINLESS BUSHINGS	2
10	NUT, HEX HD 5/16", STAINLESS	8
11	WASHER, SPLIT LOCK, 5/16", STAINLESS	8
12	EXTENDER CONNECTOR HANGER, ALUM W/ STAINLESS BUSHINGS	2
13	EXTENDER, 11"	2
15	HANGER, TRI-STUD, ALUM	2
16	HARDWARE KIT W/ GASKET, 5/16" - 18, STAINLESS	2
17	PIN, CLEVIS, 5/8" x 2 1/4" EL, GALV	4
18	PIN, COTTER HUMPED, 5/32" x 1.775" 304 STAINLESS	4
19	BOLT, HEX HD, 5/16" - 18 x 1", STAINLESS	4
20	BOLT, HEX HD, 5/16" - 18 x 1 1/4", STAINLESS	4
21	EYE HOOK, STAINLESS STEEL (RATED FOR APPROPRIATE LOAD)	2
22	CARABINER HOOK, STAINLESS STEEL, (RATED FOR APPROPRIATE LOAD)	2
23	CABLE, SAFETY, FOR SIGN HANGERS, STAINLESS	2
	SLEEVE, COMPRESSION, OVAL, STAINLESS	4
	WIRE ROPE, 3/16" X 7 X 19, AIRCRAFT, TYPE 304 STAINLESS	2
	CONNECTOR, THREADED, 3/16" X 1-1/2", STAINLESS	2
	INSTRUCTIONS, SAFETY CABLE FOR SIGN HANGERS	2

LED SIGN BRACKET DETAIL



STEEL COMBINATION MAST ARM ASSEMBLY AND POLE



STEEL MAST ARM ASSEMBLY AND POLE

GENERAL NOTE:

- SIGNAL HEADS, SIGN PANELS, AND OTHER ATTACHMENT ARE SHOWN FOR MINIMUM DESIGN LOADING PURPOSES ONLY. EACH SIGNAL HEAD SHALL WEIGH 36 Kg (80 lb) AND HAVE A PROJECTED AREA OF 1.37 sq. m (14.7 sq ft.).
- PHOTO ELECTRIC CELL IS TO BE MOUNTED ABOVE CABINET DOOR.
- THE SIGN SHALL BE LOCATED AT A MAXIMUM OF 8' FROM CENTER OF SIGN TO POLE.
- SIGN IS TO BE MOUNTED A MINIMUM OF 16' ABOVE PAVEMENT.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL 120 VOLT SYSTEM AND CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:  
R = RED      BL = BLUE      W = WHITE  
B = BLACK      Y = YELLOW      G = GREEN

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



**REMOVAL NOTES:**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 1 EACH TRAFFIC SIGNAL POST
- 8 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH PEDESTRIAN PUSH-BUTTON

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF DUPAGE COUNTY. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE TO BE RETURNED TO THE COUNTY OR TO THE COUNTY'S ELECTRICAL MAINTENANCE CONTRACTOR AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

**NOTES:**

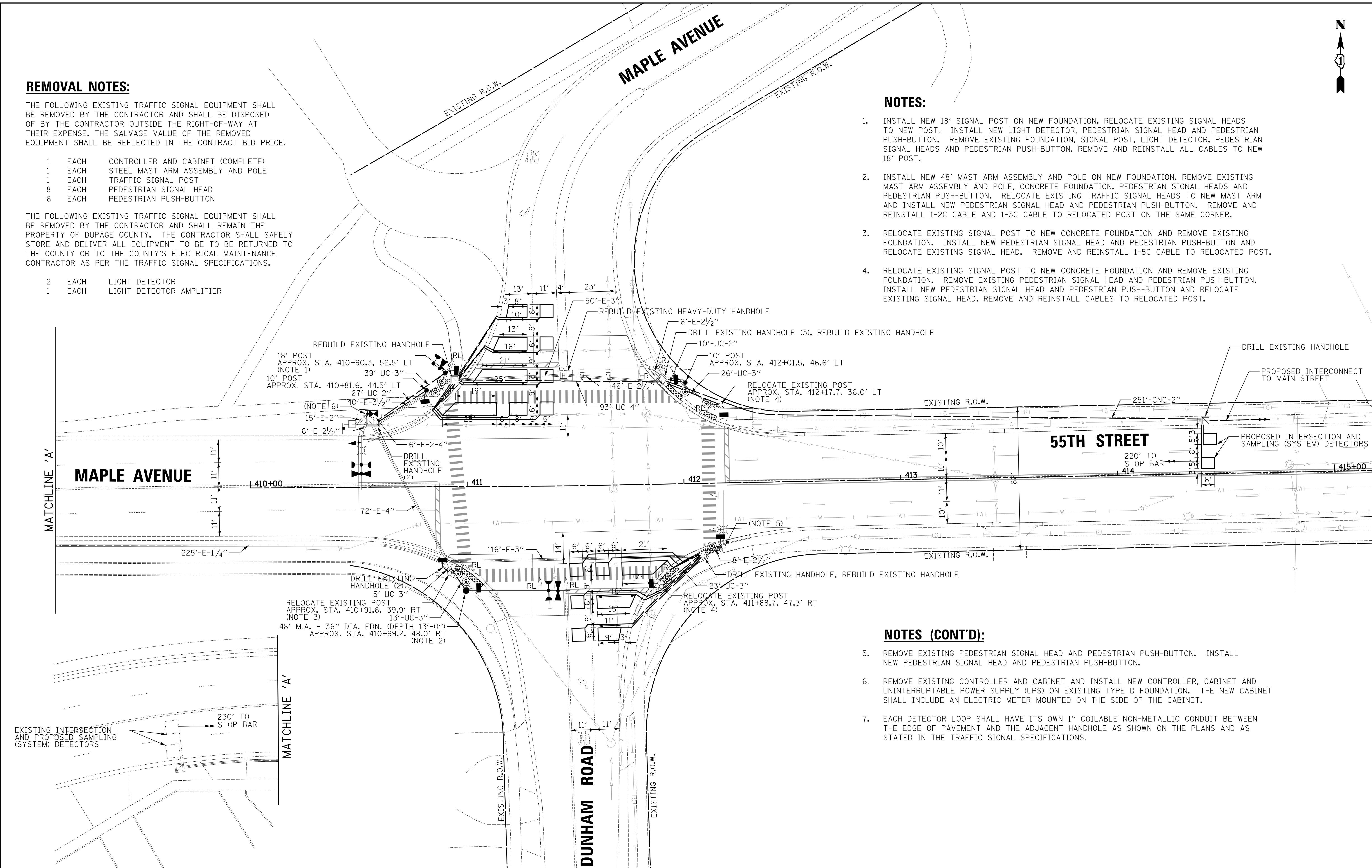
1. INSTALL NEW 18' SIGNAL POST ON NEW FOUNDATION. RELOCATE EXISTING SIGNAL HEADS TO NEW POST. INSTALL NEW LIGHT DETECTOR, PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON. REMOVE EXISTING FOUNDATION, SIGNAL POST, LIGHT DETECTOR, PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTON. REMOVE AND REINSTALL ALL CABLES TO NEW 18' POST.
2. INSTALL NEW 48' MAST ARM ASSEMBLY AND POLE ON NEW FOUNDATION. REMOVE EXISTING MAST ARM ASSEMBLY AND POLE, CONCRETE FOUNDATION, PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSH-BUTTON. RELOCATE EXISTING TRAFFIC SIGNAL HEADS TO NEW MAST ARM AND INSTALL NEW PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON. REMOVE AND REINSTALL 1-2C CABLE AND 1-3C CABLE TO RELOCATED POST ON THE SAME CORNER.
3. RELOCATE EXISTING SIGNAL POST TO NEW CONCRETE FOUNDATION AND REMOVE EXISTING FOUNDATION. INSTALL NEW PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON AND RELOCATE EXISTING SIGNAL HEAD. REMOVE AND REINSTALL 1-5C CABLE TO RELOCATED POST.
4. RELOCATE EXISTING SIGNAL POST TO NEW CONCRETE FOUNDATION AND REMOVE EXISTING FOUNDATION. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON. INSTALL NEW PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON AND RELOCATE EXISTING SIGNAL HEAD. REMOVE AND REINSTALL CABLES TO RELOCATED POST.

**NOTES (CONT'D):**

5. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON. INSTALL NEW PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSH-BUTTON.
6. REMOVE EXISTING CONTROLLER AND CABINET AND INSTALL NEW CONTROLLER, CABINET AND UNINTERRUPTABLE POWER SUPPLY (UPS) ON EXISTING TYPE D FOUNDATION. THE NEW CABINET SHALL INCLUDE AN ELECTRIC METER MOUNTED ON THE SIDE OF THE CABINET.
7. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

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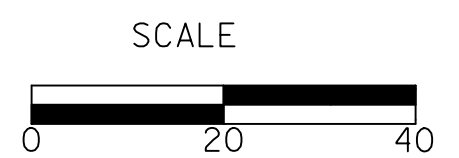
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**CIVILTECH**  
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 Tel: 630.773.3900 Fax: 630.773.3975  
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DATE - 09/06/2018	REVISED -

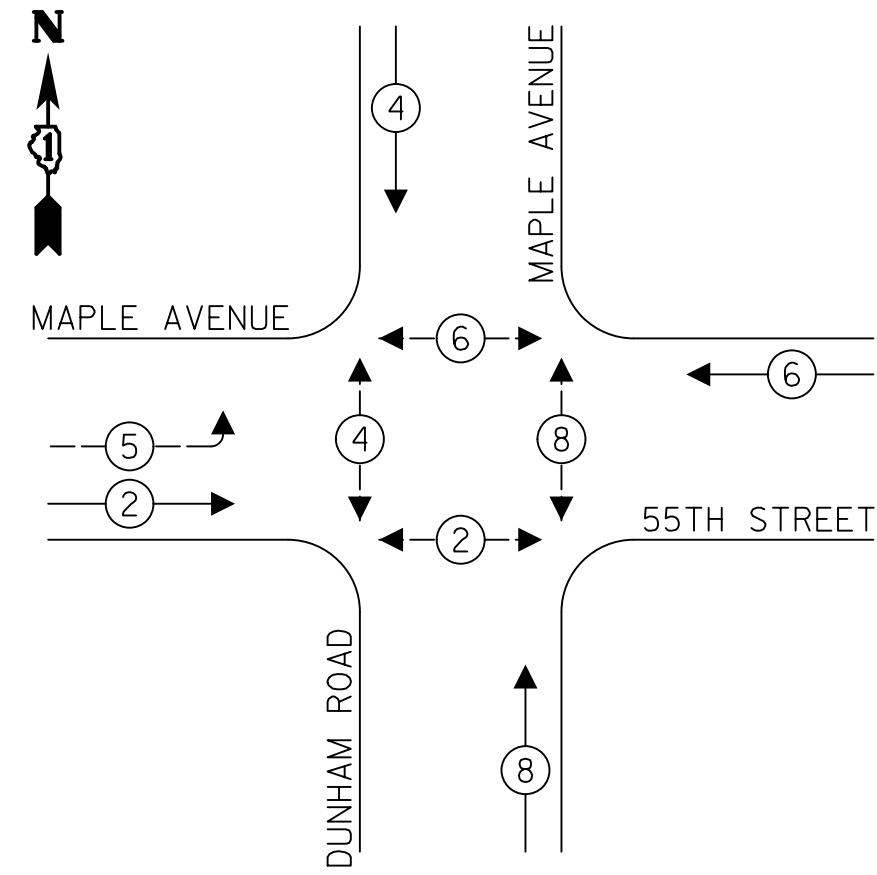
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



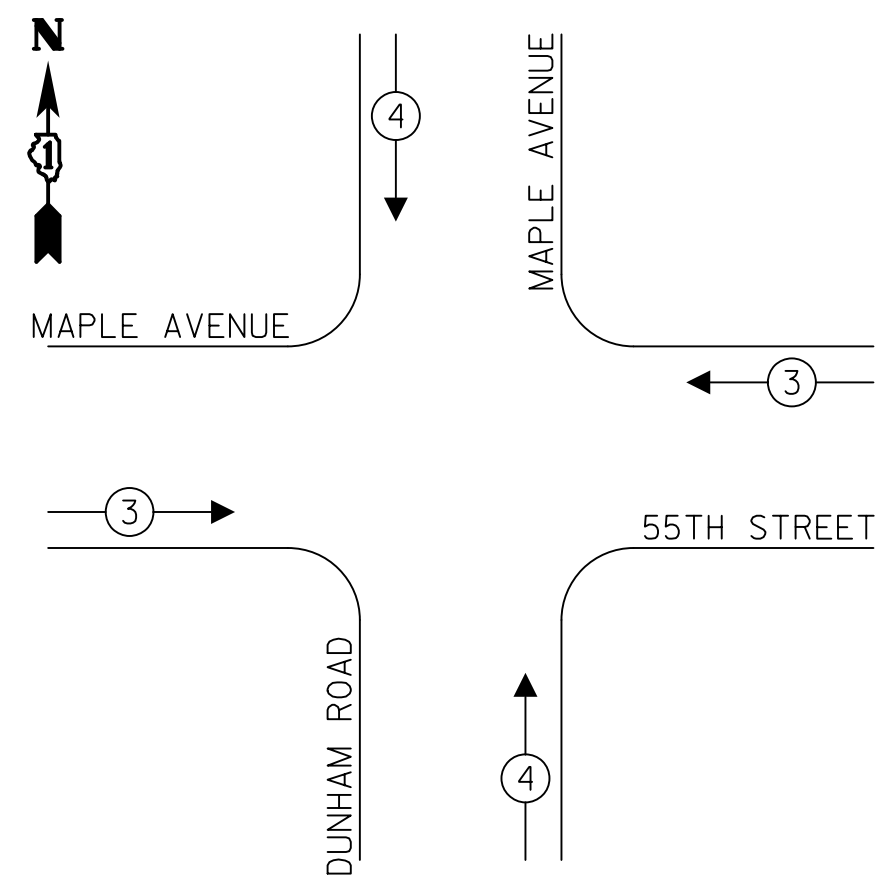
**TRAFFIC SIGNAL MODIFICATION PLAN  
 55TH STREET AND DUNHAM ROAD /MAPLE AVENUE**  
 SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	258
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — OVERLAP

**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	37
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	106
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	93
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	251
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	6
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	378
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	660
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	360
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	63
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	427
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	803
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	923
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	7
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	926
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1045
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	184
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

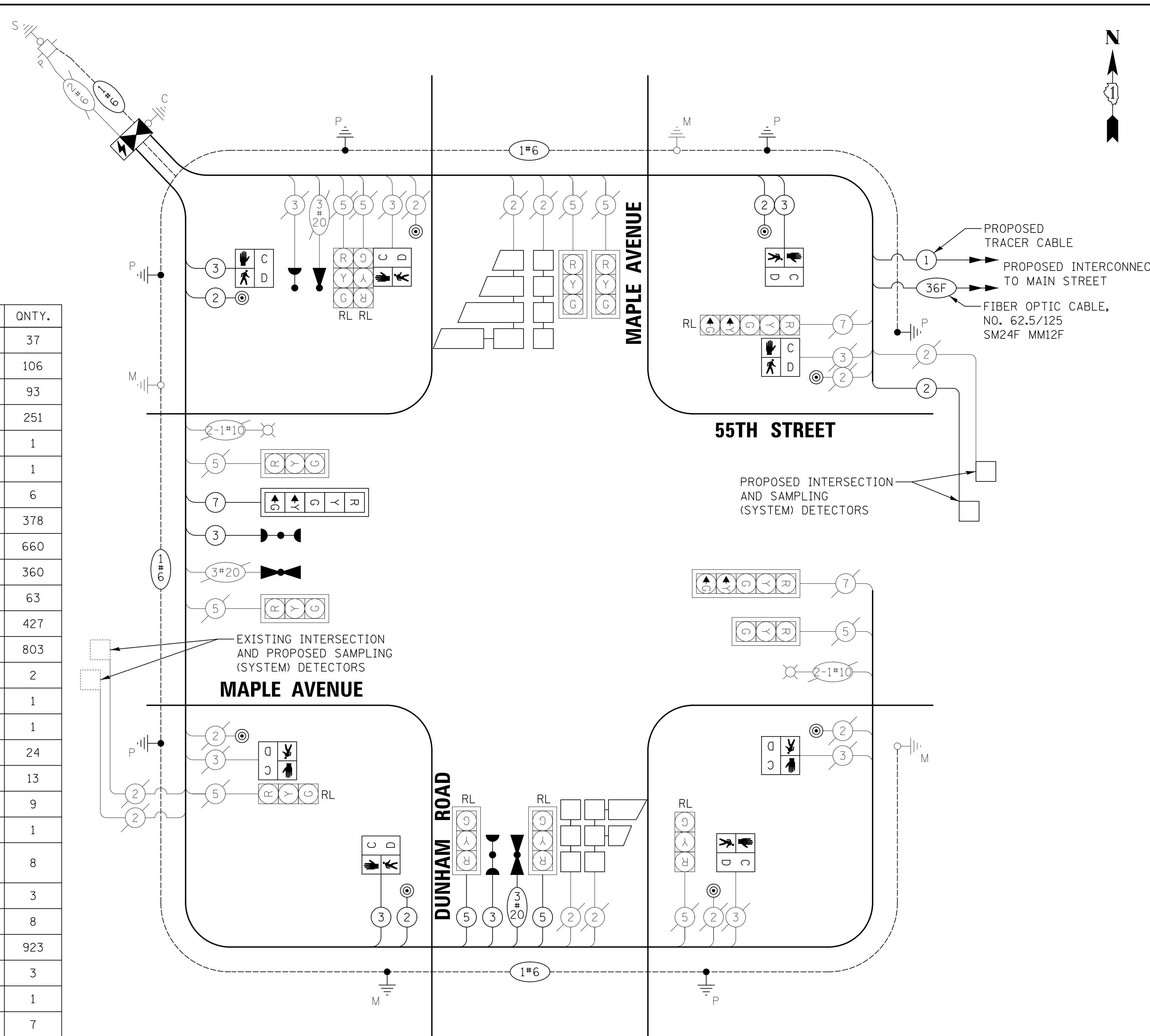
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	17	50	119.0
(YELLOW)	14	25	5	17.5
(GREEN)	14	15	45	94.5
ARROW	6	12	10	7.2
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	-	100	-
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	50	-
LUMINAIRE	2	310	50	310
<b>TOTAL =</b>				<b>833.2</b>

ENERGY COSTS TO:

COUNTY OF DUPAGE  
421 N COUNTY FARM ROAD  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COM ED



**CABLE PLAN**

(NOT TO SCALE)

**NOTES:**

- THE PROPOSED CABINET SHALL INCLUDE AN ELECTRIC METER MOUNTED ON THE SIDE OF THE CABINET.
- THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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Two Pierce Place, Suite 1400  
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CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

NO SCALE

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES**  
**55TH STREET AND MAPLE AVENUE /DUNHAM ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	259
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 1 SHEETS STA. TO STA.



### REMOVAL NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

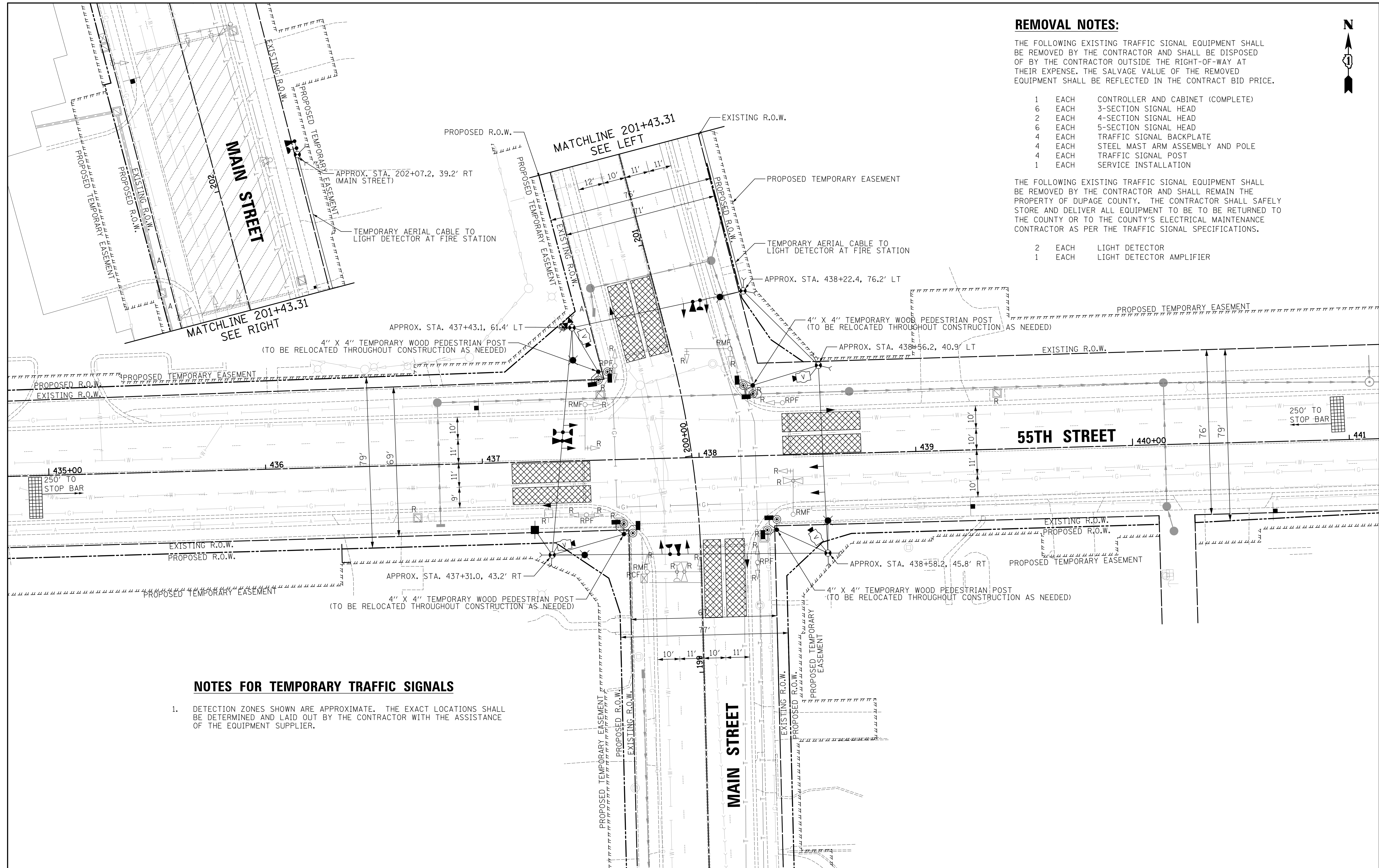
1	EACH	CONTROLLER AND CABINET (COMPLETE)
6	EACH	3-SECTION SIGNAL HEAD
2	EACH	4-SECTION SIGNAL HEAD
6	EACH	5-SECTION SIGNAL HEAD
4	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	STEEL MAST ARM ASSEMBLY AND POLE
4	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF DUPAGE COUNTY. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE COUNTY OR TO THE COUNTY'S ELECTRICAL MAINTENANCE CONTRACTOR AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

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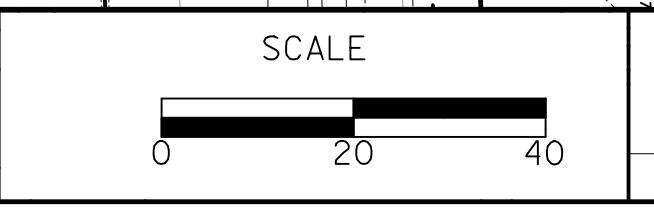
### NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN  
55TH STREET AND MAIN STREET**

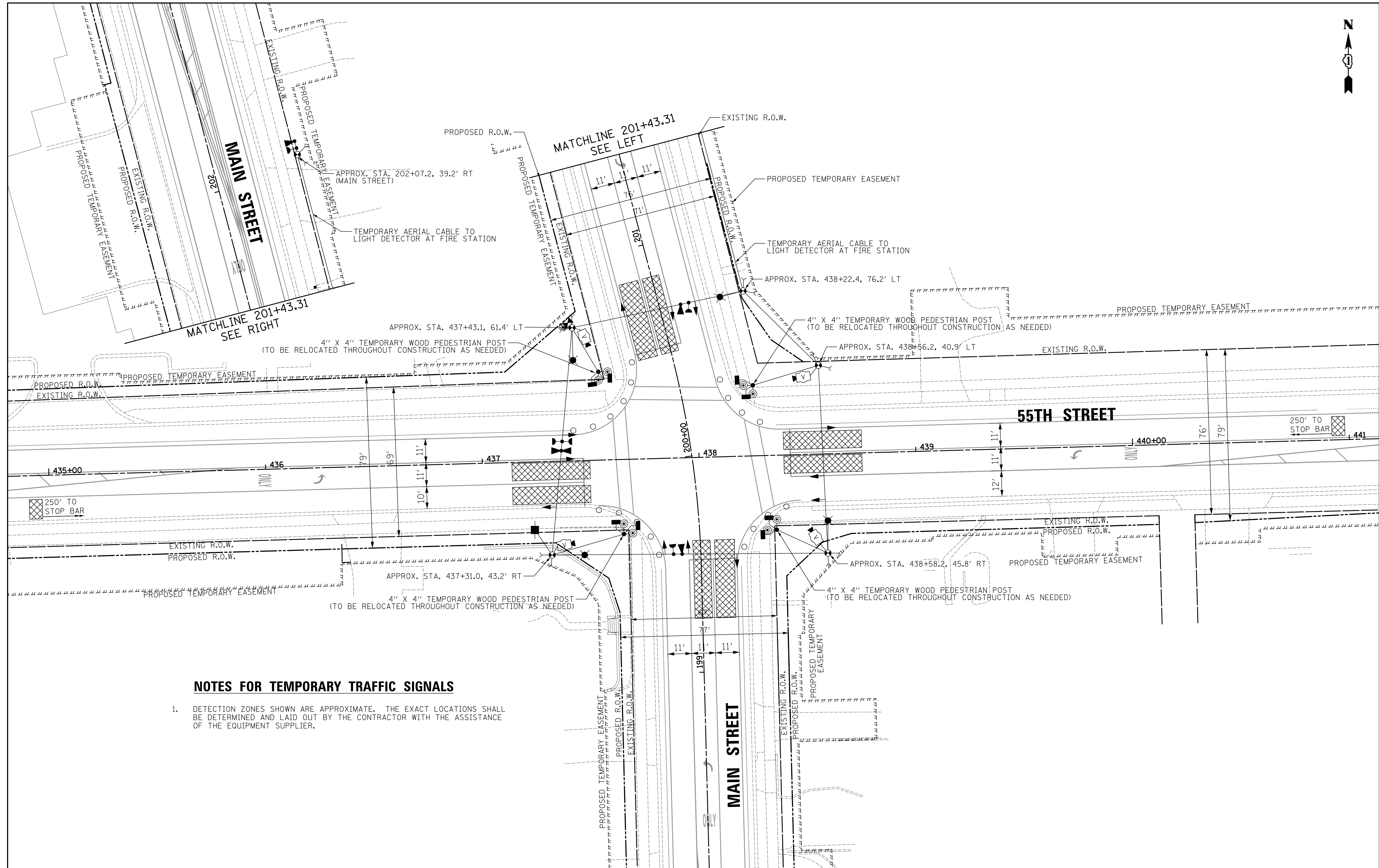
SHEET NO. 1 OF 1 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	260
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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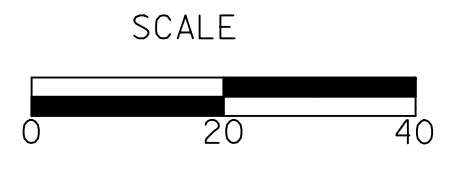
**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN  
55TH STREET AND MAIN STREET  
STAGE 1**

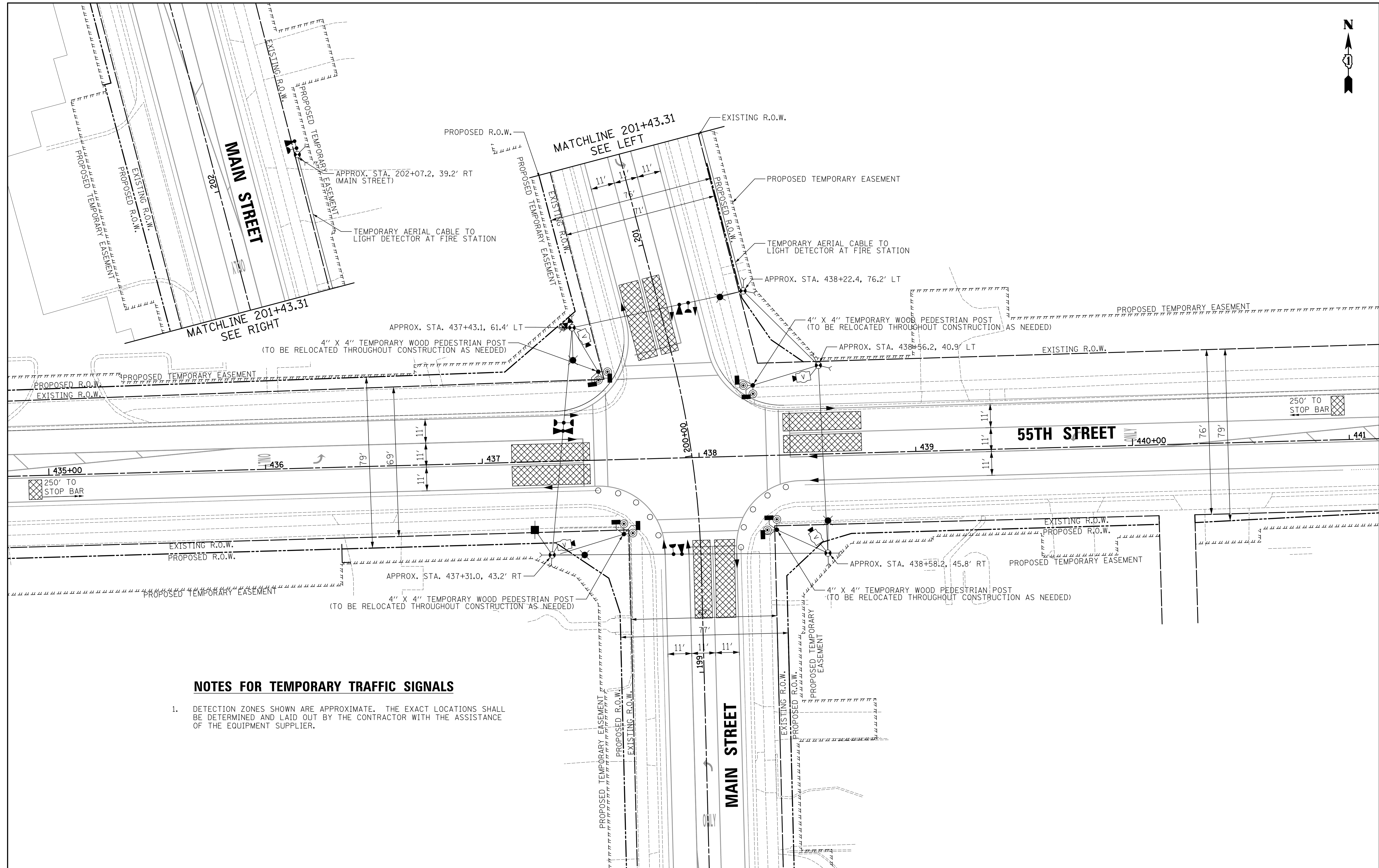
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	261
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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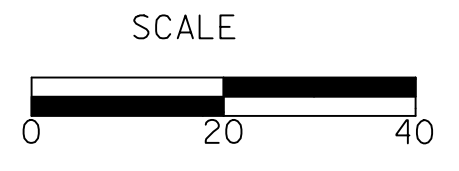
**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

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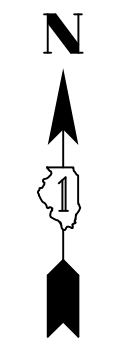
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

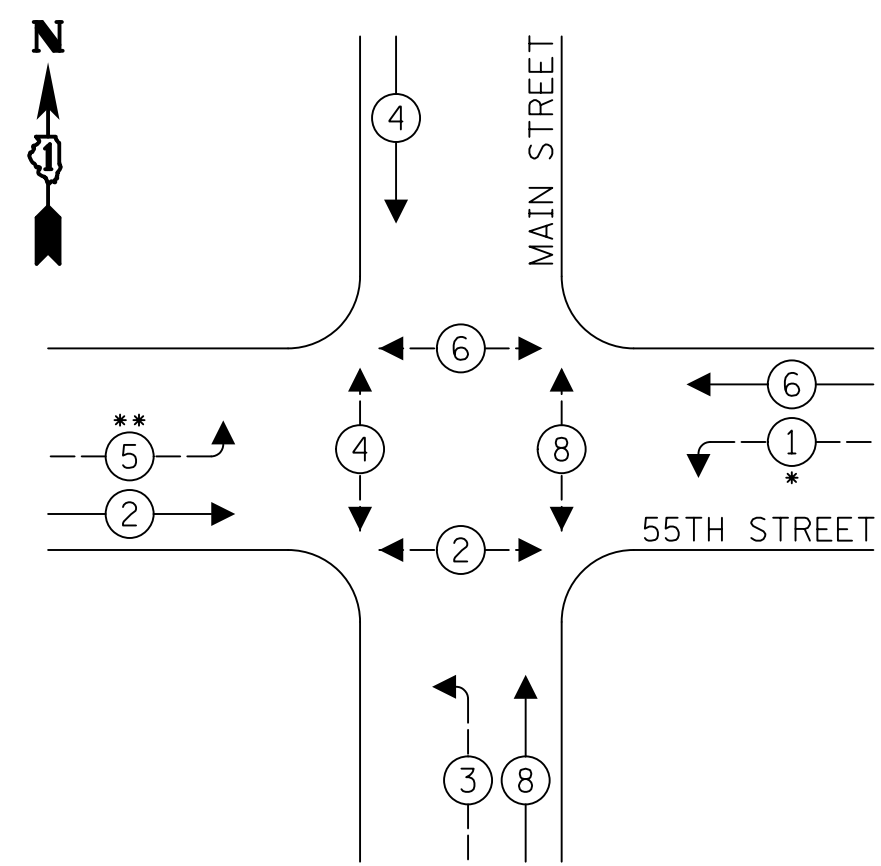


**TEMPORARY TRAFFIC SIGNAL PLAN**  
**55TH STREET AND MAIN STREET**  
**STAGE 2**  
 SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	262
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

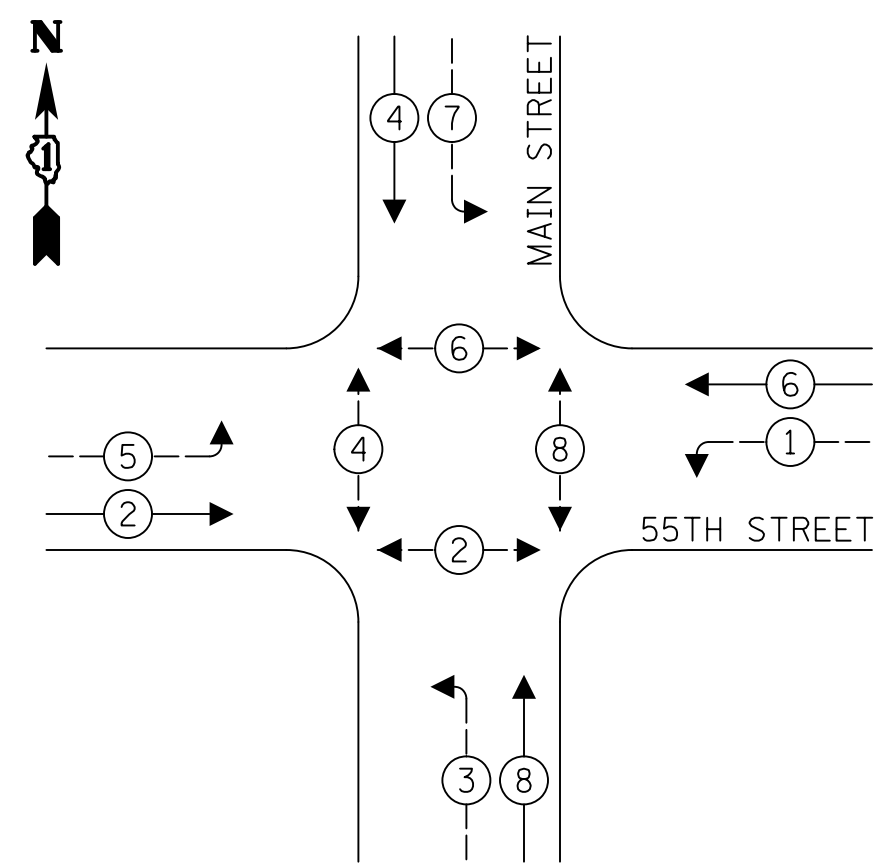


**TEMPORARY CONTROLLER SEQUENCE EXISTING CONFIGURATION**



** PHASE 1 IS OMITTED FROM 12:00 AM TO 10:00 AM.  
 ** PHASE 5 IS OMITTED FROM 12:00 AM TO 5:00 AM AND FROM 10:00 AM TO 12:00 AM.

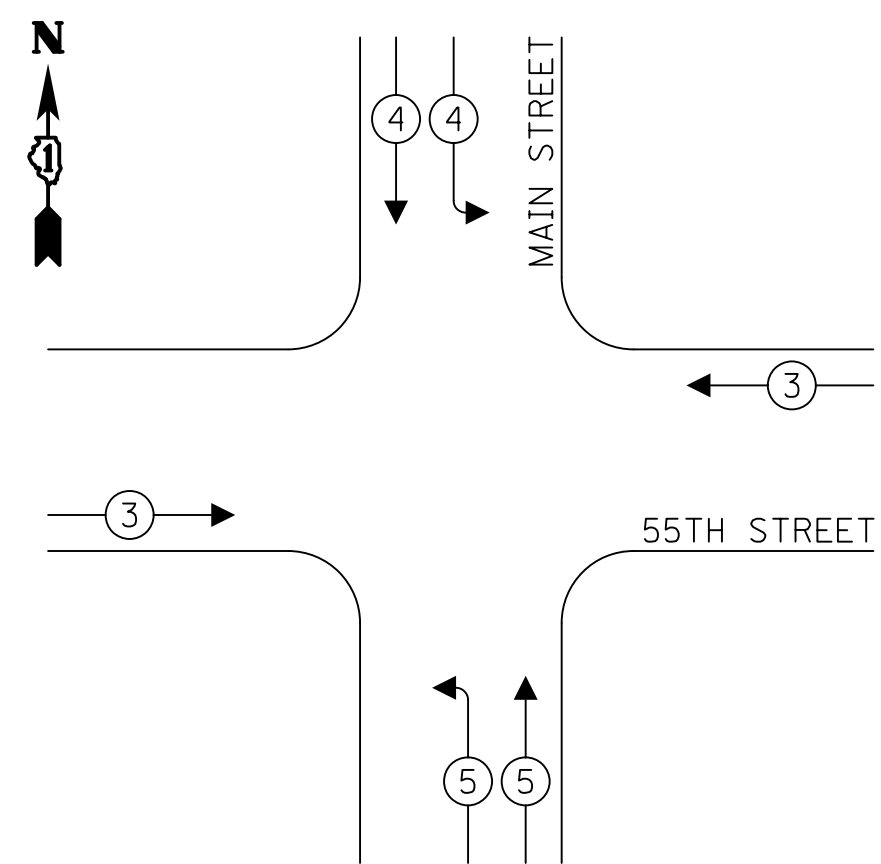
**TEMPORARY CONTROLLER SEQUENCE STAGES 1 - 3**



**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ ← PROTECTED/PERMITTED PHASE
- ← ⊙ ← PEDESTRIAN PHASE
- ← ⊙ ← OL OVERLAP

**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTES**

1. THE LIGHT DETECTOR AT THE FIRE STATION DRIVEWAY SHALL PLACE A CALL TO EMERGENCY VEHICLE PREEMPTION PHASE 4. THE PHASE DURATION SHALL BE SUFFICIENT TO ALLOW EMERGENCY VEHICLE LEAVING THE FIRE STATION TO ACTIVATE INTERSECTION PREEMPTION WITHOUT THE INTERSECTION CYCLING AS DIRECTED BY THE TRAFFIC ENGINEER.
2. IF PREEMPTOR NUMBER 4 OR 5 IS CALLED DURING PHASE 4+8, THE NECESSARY NORTHBOUND AND SOUTHBOUND AMBER AND ALL RED CLEARANCE INTERVALS SHALL PRECEDE PREEMPTOR 4 OR 5.

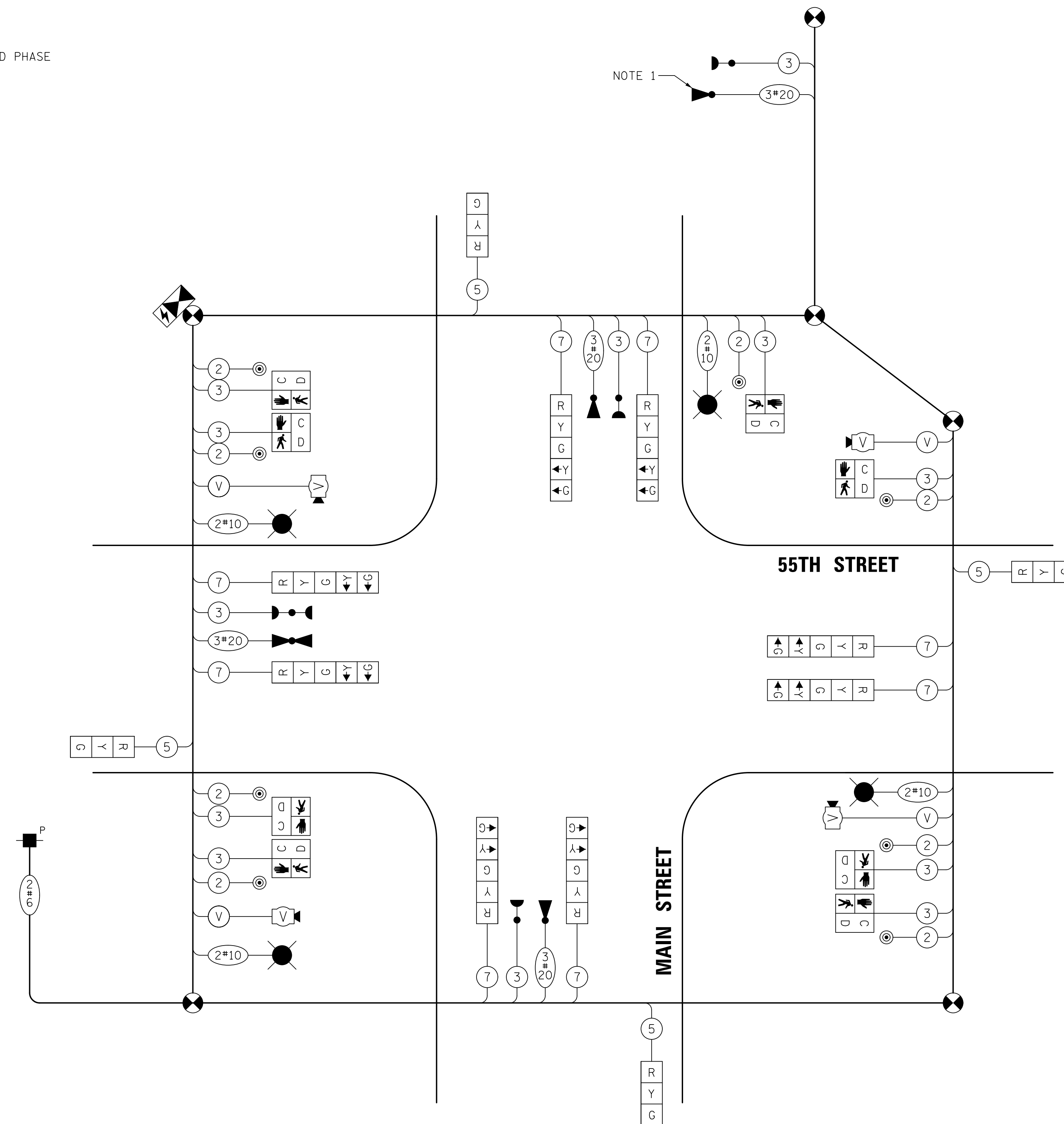
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	50	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1093.8

ENERGY COSTS TO:

COUNTY OF DUPAGE  
 421 N COUNTY FARM ROAD  
 WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
 PHONE: (866) 639-3532  
 COMPANY: COM ED



**TEMPORARY CABLE PLAN**

(NOT TO SCALE)

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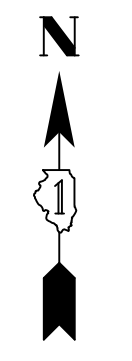
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

NO SCALE

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 55TH STREET AND MAIN STREET**

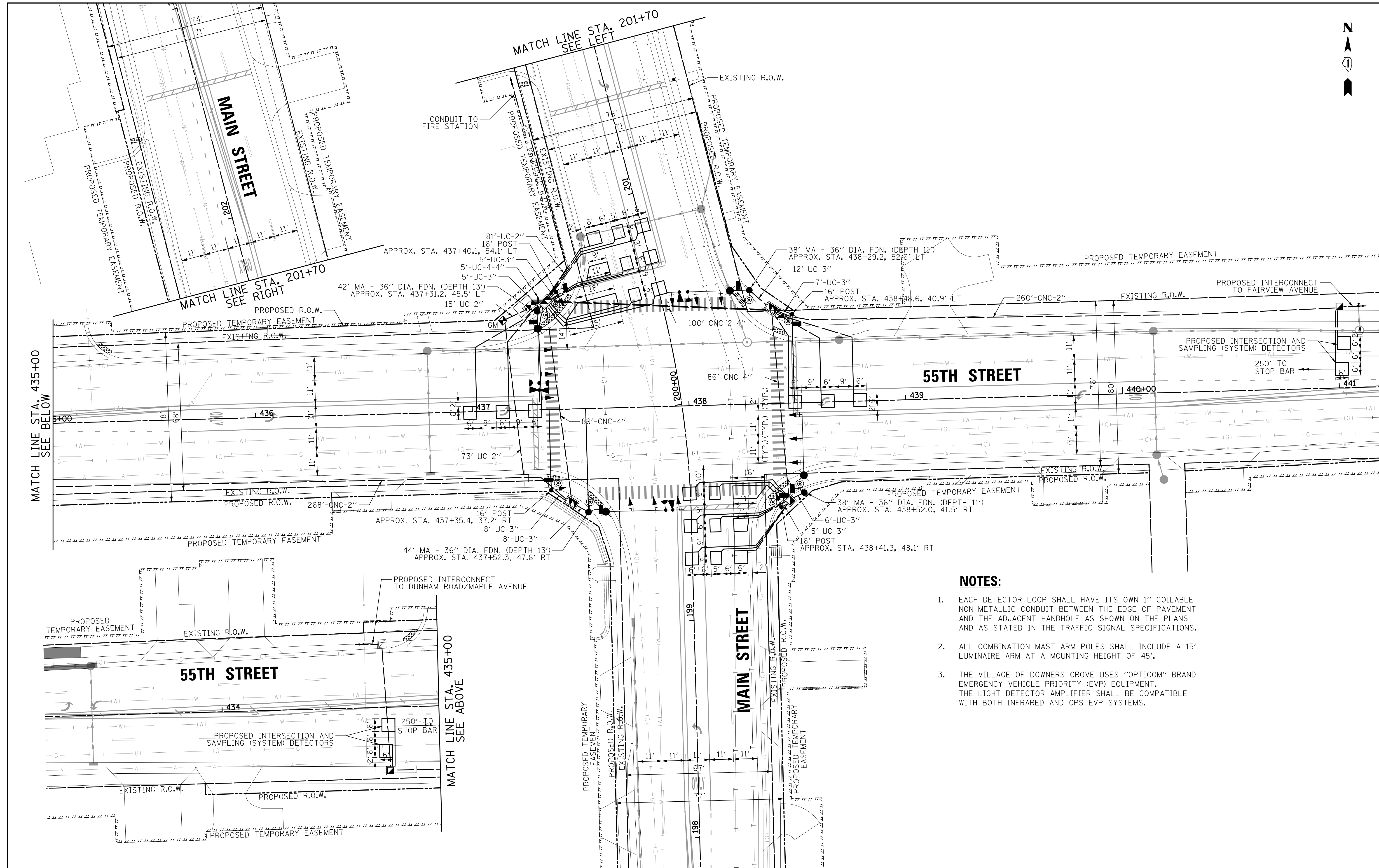
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	263
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003 (254)				



DATE	
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PI. OF WAY CHECKED	
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NOTE BOOK	
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STRUCTURE NOTATIONS	CHKD
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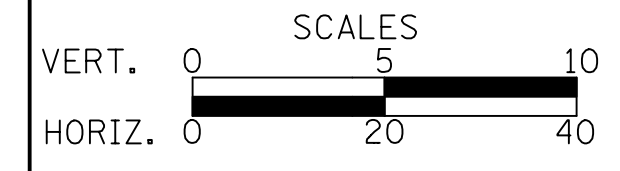
**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. ALL COMBINATION MAST ARM POLES SHALL INCLUDE A 15' LUMINAIRE ARM AT A MOUNTING HEIGHT OF 45'.
3. THE VILLAGE OF DOWNERS GROVE USES "OPTICOM" BRAND EMERGENCY VEHICLE PRIORITY (EVP) EQUIPMENT. THE LIGHT DETECTOR AMPLIFIER SHALL BE COMPATIBLE WITH BOTH INFRARED AND GPS EVP SYSTEMS.

**CIVILTECH**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**TRAFFIC SIGNAL MODERNIZATION PLAN  
 55TH STREET AND MAIN STREET**

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

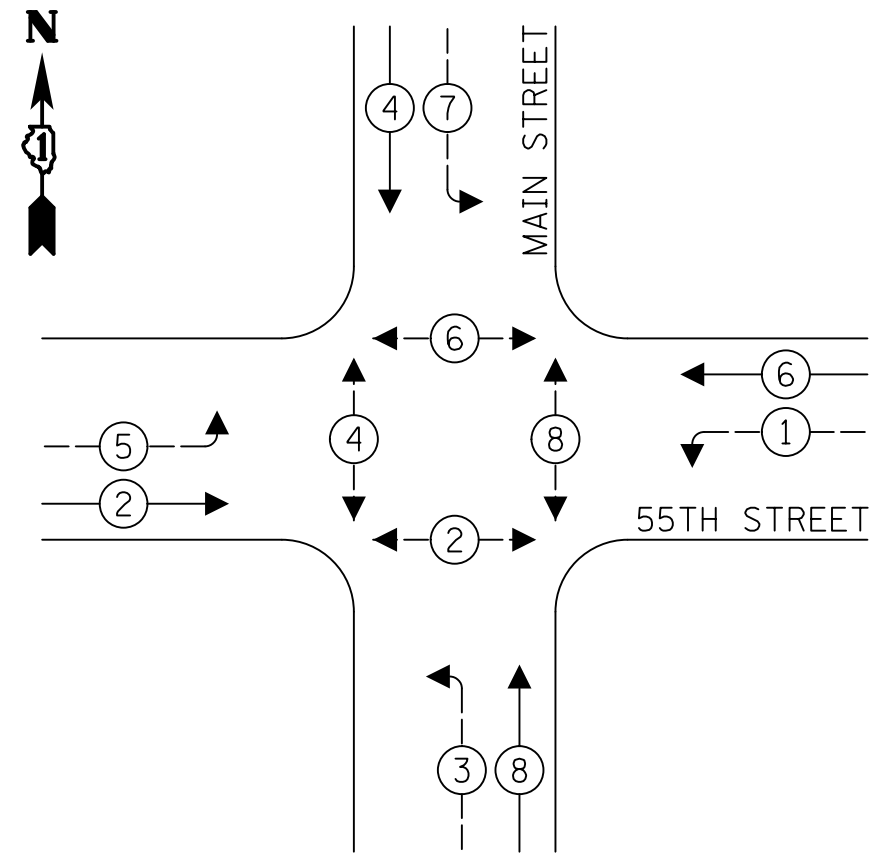
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	264
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



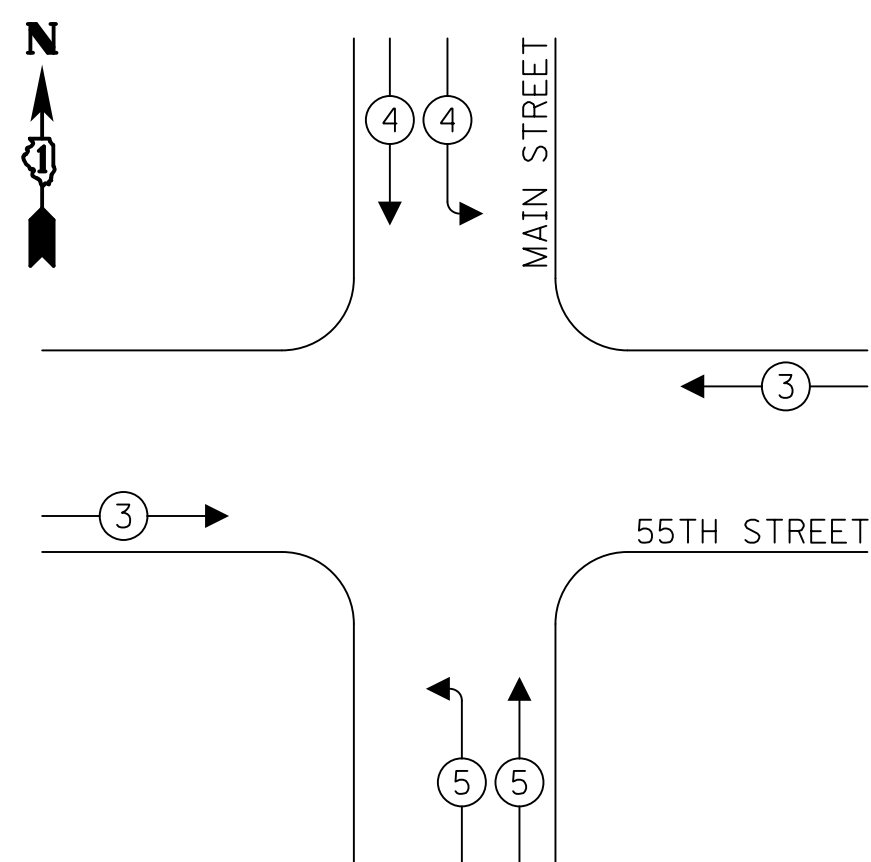
DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NO.	

**PROPOSED CONTROLLER SEQUENCE**



**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

- ← ⊙ → PROTECTED PHASE
- ← ⊙ ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL → OVERLAP

**NOTES**

1. THE LIGHT DETECTOR AT THE FIRE STATION DRIVEWAY SHALL PLACE A CALL TO EMERGENCY VEHICLE PREEMPTION PHASE 4. THE PHASE DURATION SHALL BE SUFFICIENT TO ALLOW EMERGENCY VEHICLE LEAVING THE FIRE STATION TO ACTIVATE INTERSECTION PREEMPTION WITHOUT THE INTERSECTION CYCLING AS DIRECTED BY THE TRAFFIC ENGINEER.
2. IF PREEMPTOR NUMBER 4 OR 5 IS CALLED DURING PHASE 4+8, THE NECESSARY NORTHBOUND AND SOUTHBOUND AMBER AND ALL RED CLEARANCE INTERVALS SHALL PRECEDE PREEMPTOR 4 OR 5.
3. THE PREEMPTION BUTTON INSIDE THE FIRE STATION AND THE PORTABLE PREEMPTOR SWITCHES IN DGFV VEHICLES SHALL PLACE A CALL TO EMERGENCY VEHICLE PREEMPTION PHASE 4 AT THIS INTERSECTION AND ACTIVATE THE EMERGENCY BEACON AT THE FIRE STATION DRIVEWAY. THE PHASE DURATION SHALL BE SUFFICIENT TO ALLOW EMERGENCY VEHICLE LEAVING THE FIRE STATION TO ACTIVATE INTERSECTION PREEMPTION WITHOUT THE INTERSECTION CYCLING AS DIRECTED BY THE TRAFFIC ENGINEER.
4. THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
5. LED INTERNALLY ILLUMINATED STREET NAME SIGNS AND LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTABLE POWER SUPPLY.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	4	165	50	330.0
TOTAL =				1061.4

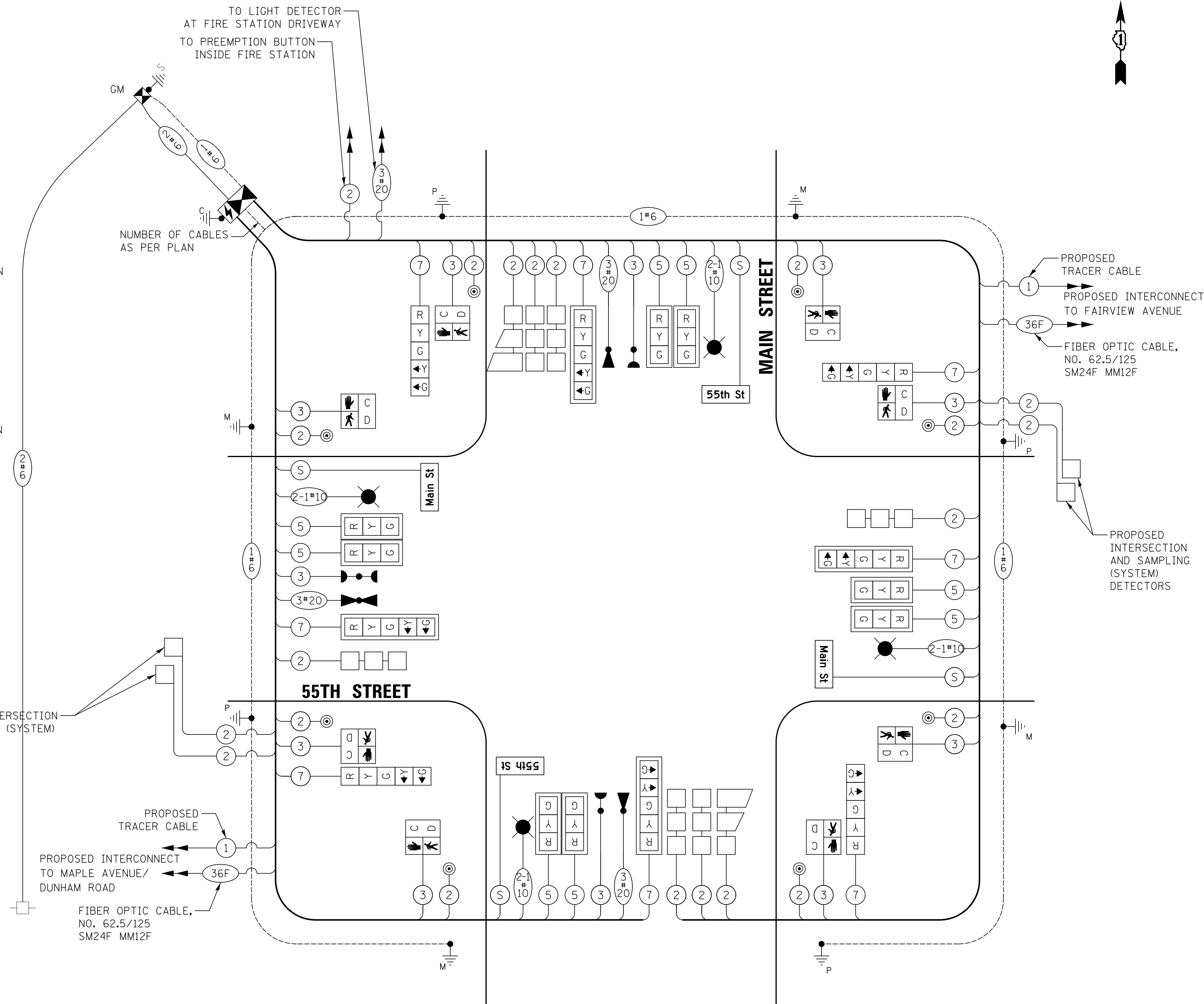
ENERGY COSTS TO:

COUNTY OF DUPAGE  
421 N. COUNTY FARM ROAD  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COM ED

**LEGEND**

- ⊙ NO. 14 3/C (BLACK, WHITE, GREEN), TYPE SOOW (PAID FOR AS "CABLE, SPECIAL")

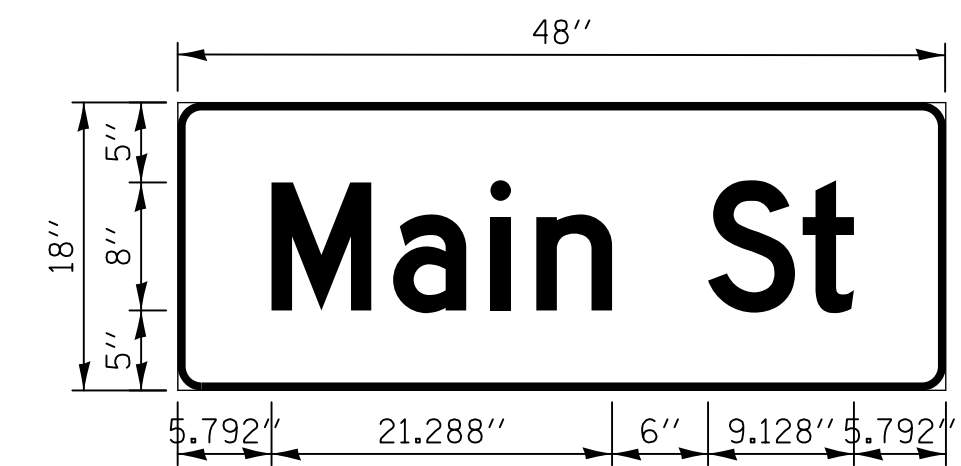


**CABLE PLAN**

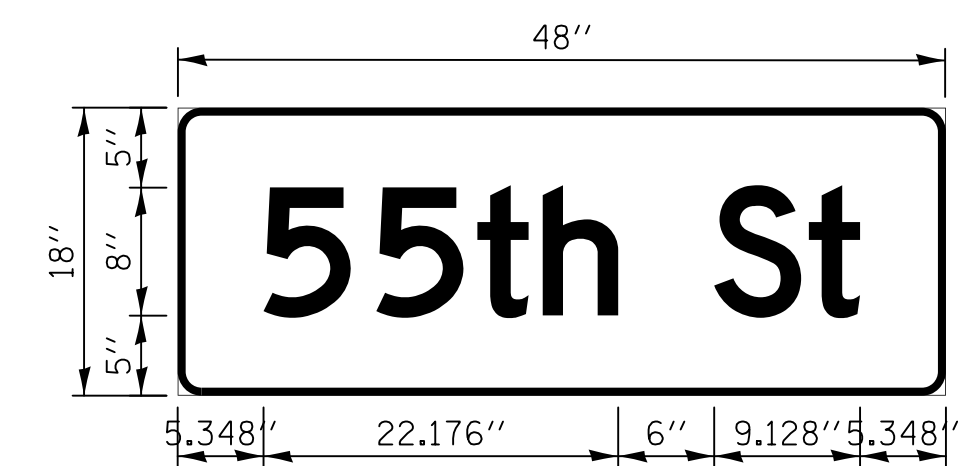
(NOT TO SCALE)

### SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	169
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	56
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	286
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	528
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1805
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1432
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1714
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1455
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1401
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2512
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	126
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	618
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1252
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	828
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CABLE, SPECIAL	FOOT	787
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.00	LED SNS	ZZ	2 (TWO-SIDED)



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.00	LED SNS	ZZ	2 (TWO-SIDED)

PLAN	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
PT. OF WAY CHECKED		
NOTE BOOK NO.		
NO.		
ADD. FILE NAME		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO.		
NO.		



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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NO SCALE

**MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES  
55TH STREET AND MAIN STREET**

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

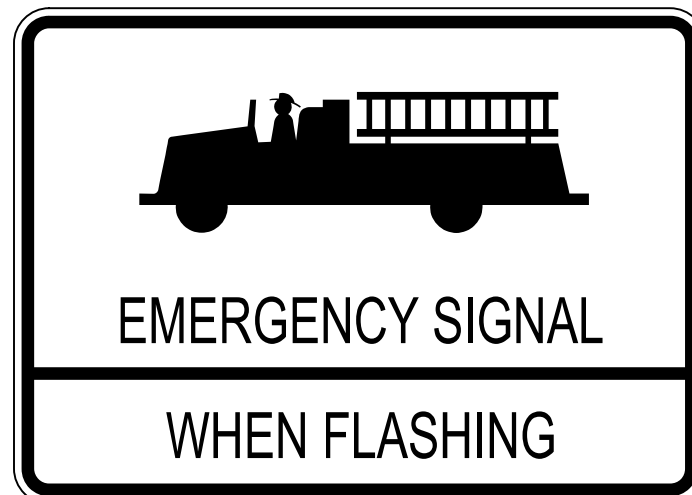
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	266
<b>CONTRACT NO. 61E06</b>				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



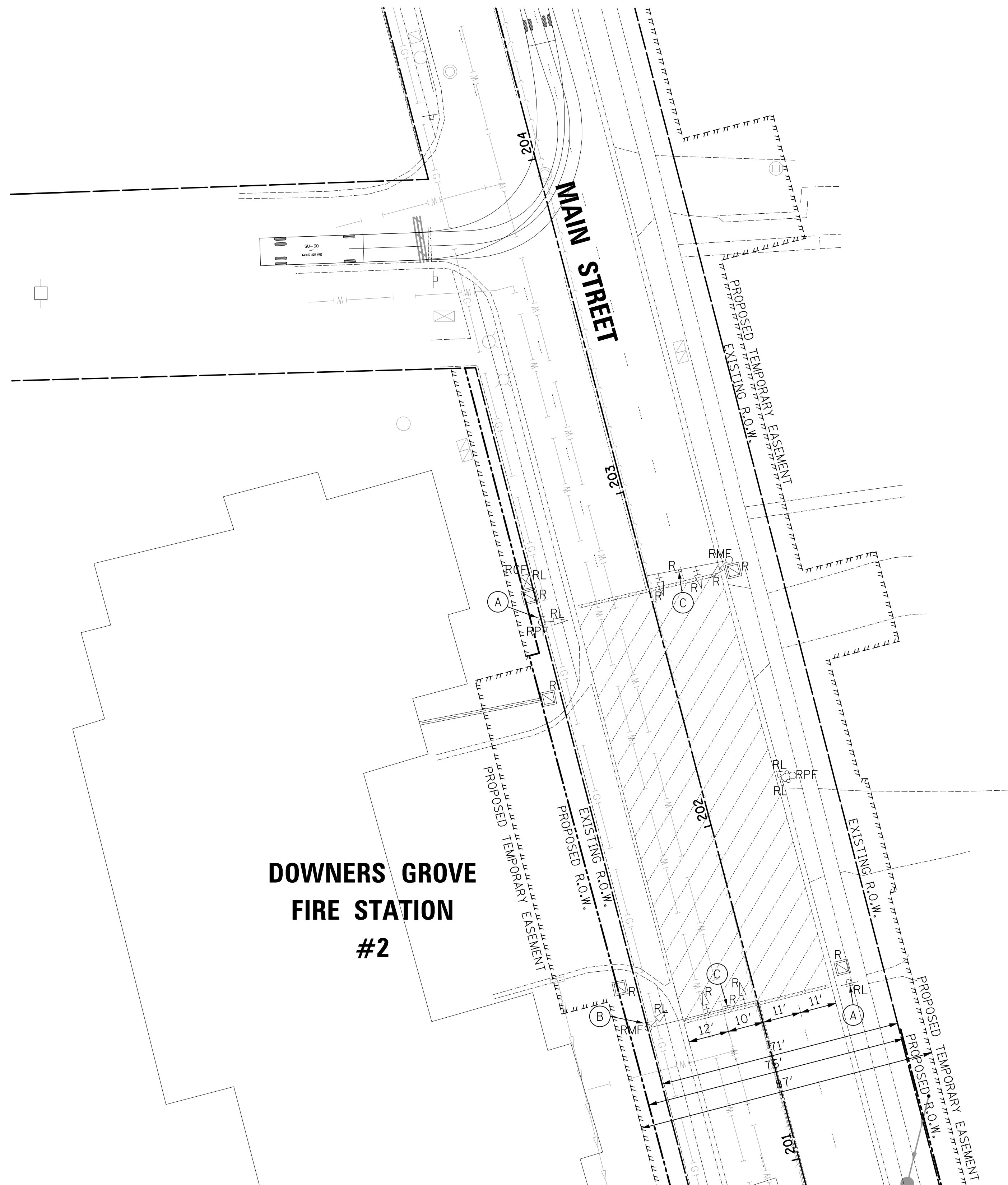
R10-6 (SPECIAL)  
24" x 60"  
TO BE REMOVED



24"x30"  
TO BE REMOVED



24"x24"  
TO BE REMOVED



**REMOVAL NOTES:**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 5 EACH 3-SECTION SIGNAL HEAD
- 2 EACH "EMERGENCY SIGNAL WHEN FLASHING" SIGNS
- 1 EACH "EMERGENCY SIGNAL" SIGN
- 2 EACH "STOP HERE ON RED WHEN FLASHING" SIGNS

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR SAFELY STORED AND RELOCATED TO THE PROPOSED EMERGENCY SIGNAL INSTALLATION.

- 1 EACH CONTROLLER AND CABINET, COMPLETE
- 2 EACH 1-SECTION SIGNAL HEAD
- 1 EACH LIGHT DETECTOR
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 2 EACH TRAFFIC SIGNAL POST

**NOTES**

1. THE INSTALLATION OF THE EMERGENCY SIGNAL SHALL BE COMPLETED PRIOR TO THE START OF STAGE 1. THE CONTRACTOR SHALL STAGE THEIR WORK SO THAT THE DOWNTIME OF THE CHANGEOVER FROM THE EXISTING EMERGENCY BEACON TO THE PROPOSED EMERGENCY SIGNAL SHALL BE KEPT TO AN ABSOLUTE MINIMUM. THE EMERGENCY BEACON/SIGNAL SHALL NOT BE INOPERABLE FOR MORE THAN FIVE (5) WORKING DAYS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AS COORDINATED WITH THE VILLAGE OF DOWNERS GROVE.
2. THE PREEMPTOR BUTTON OPERATION TO THE SIGNAL AT 55TH STREET/ MAIN STREET WILL NOT BE ACTIVE WHEN A TEMPORARY TRAFFIC SIGNAL IS PRESENT AT THAT INTERSECTION.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	CADD FILE NAME	

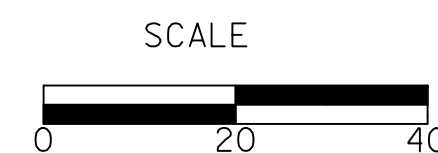
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	STRUCTURE NOTATIONS CHKD	



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DATE	- 09/06/2018	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



EXISTING EMERGENCY BEACON REMOVAL PLAN  
FIRE STATION NO. 2 AT MAIN STREET

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	267
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

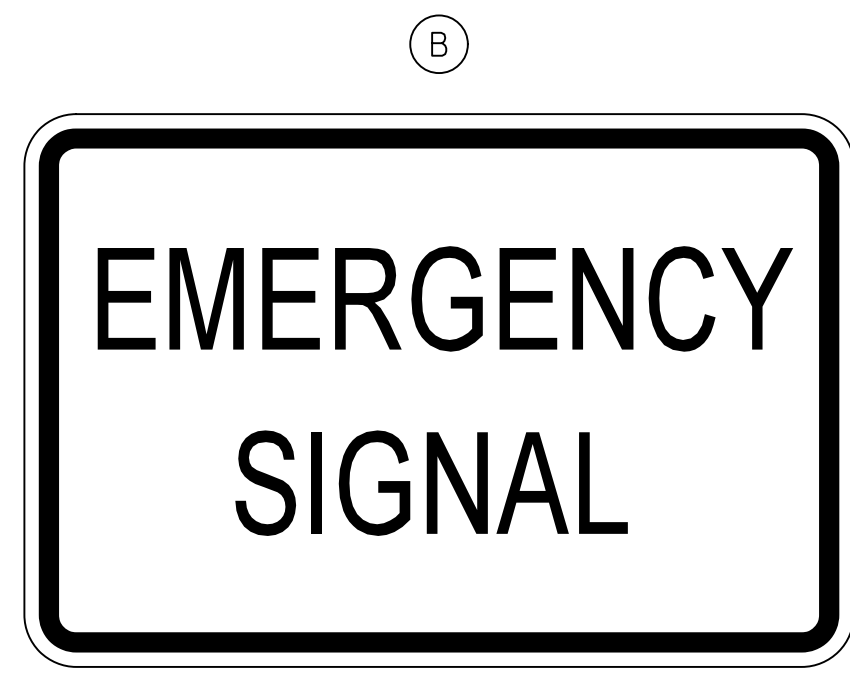


PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

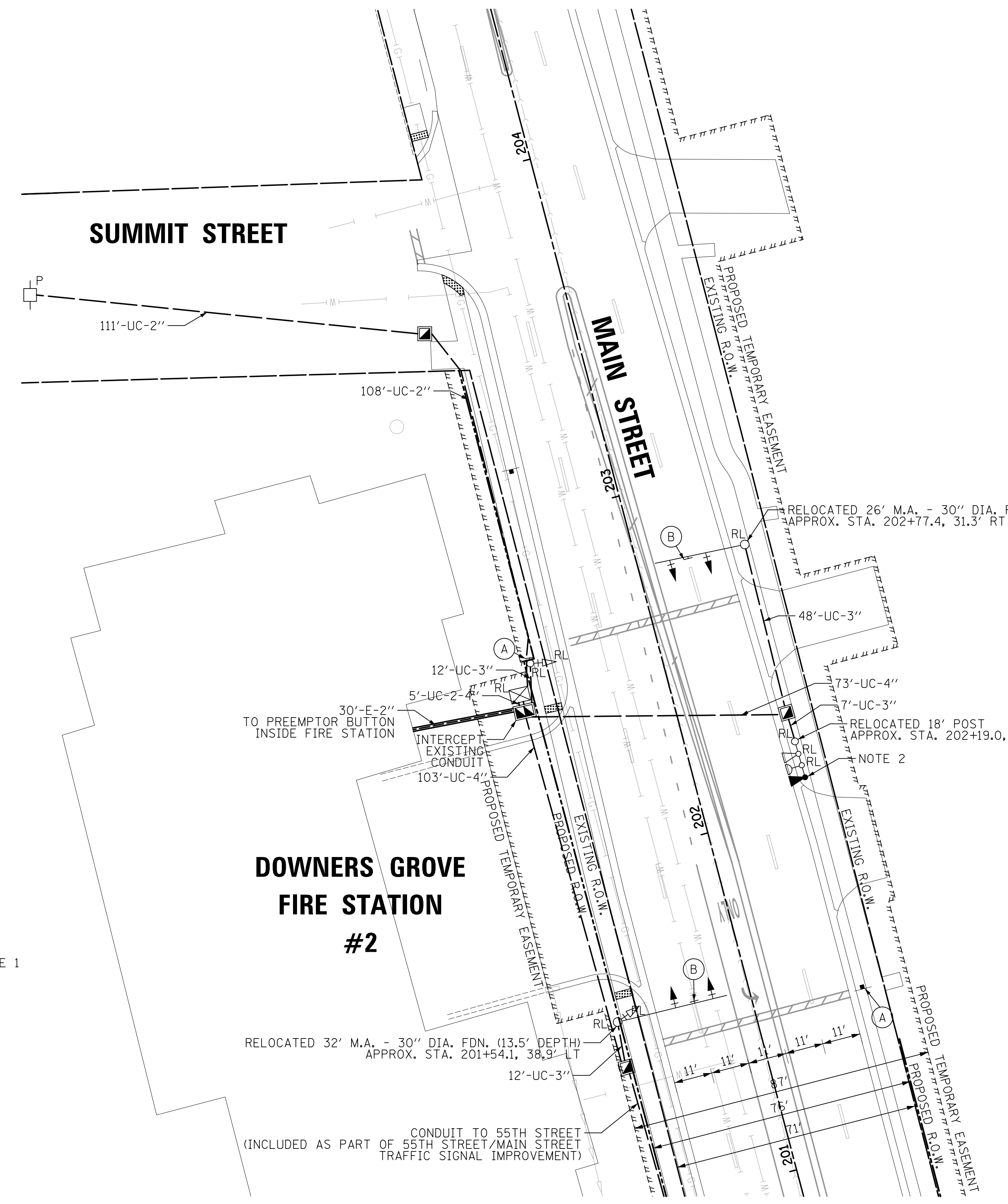
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



R10-6  
24" x 36"  
SIGN PANEL - TYPE 1  
2 REQUIRED



R10-13  
42" x 30"  
(TYP.)  
SIGN PANEL - TYPE 1  
2 REQUIRED



**NOTES**

1. THE INSTALLATION OF THE EMERGENCY SIGNAL SHALL BE COMPLETED PRIOR TO THE START OF STAGE 1. THE CONTRACTOR SHALL STAGE THEIR WORK SO THAT THE DOWNTIME OF THE CHANGEOVER FROM THE EXISTING EMERGENCY BEACON TO THE PROPOSED EMERGENCY SIGNAL SHALL BE KEPT TO AN ABSOLUTE MINIMUM. THE EMERGENCY BEACON/SIGNAL SHALL NOT BE INOPERABLE FOR MORE THAN FIVE (5) WORKING DAYS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AS COORDINATED WITH THE VILLAGE OF DOWNERS GROVE.
2. THIS LIGHT DETECTOR SHALL PLACE A CALL TO THE EMERGENCY VEHICLE PREEMPTION PHASE 4 AT 55TH STREET/MAIN STREET INTERSECTION.
3. THE TEMPORARY LIGHT DETECTOR OPPOSITE THE FIRE STATION DRIVEWAY, CONNECTED TO THE TEMPORARY CONTROLLER AT 55TH STREET/MAIN STREET, WILL CONTINUE TO BE IN USE UNTIL THE PERMANENT SIGNAL AT THAT INTERSECTION IS TURNED ON AND OPERATIONAL AND THE TEMPORARY TRAFFIC SIGNAL INSTALLATION HAS BEEN REMOVED.

**NOTES**

1. THE EXISTING PREEMPTOR BUTTON INSIDE THE FIRE STATION SHALL ACTIVATE THE EMERGENCY SIGNAL AND PLACE A CALL TO EMERGENCY VEHICLE PREEMPTION PHASE 4 AT 55TH STREET/MAIN STREET.
2. THIS LIGHT DETECTOR SHALL PLACE A CALL TO EMERGENCY VEHICLE PREEMPTION PHASE 4 AT 55TH STREET/MAIN STREET.
3. THE PORTABLE PREEMPTOR SWITCHES IN DGFV VEHICLES SHALL ACTIVATE THE EMERGENCY SIGNAL AT THE DRIVEWAY AND PLACE A CALL TO EMERGENCY VEHICLE PREEMPTION PHASE 4 AT 55TH STREET/MAIN STREET.

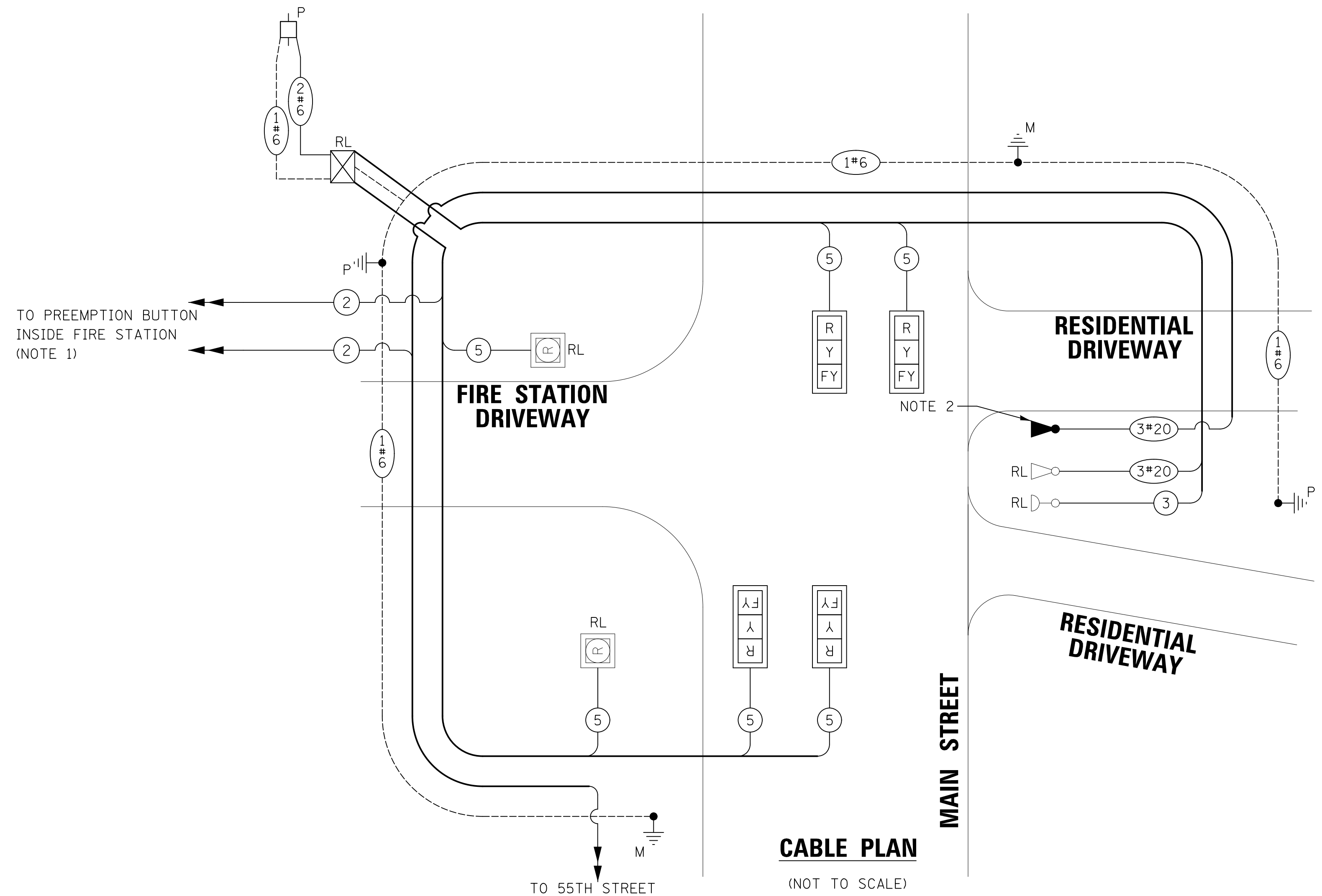
**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	30
REMOVE SIGN PANEL - TYPE 1	SQ FT	13
REMOVE SIGN PANEL - TYPE 2	SQ FT	20
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	219
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	79
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	186
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	64
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	132
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	981
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	245
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	543
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	24
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
LIGHT DETECTOR	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	113
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	132

ENERGY COSTS TO:

VILLAGE OF DOWNERS GROVE  
801 BURLINGTON AVENUE  
DOWNERS GROVE, IL 60515

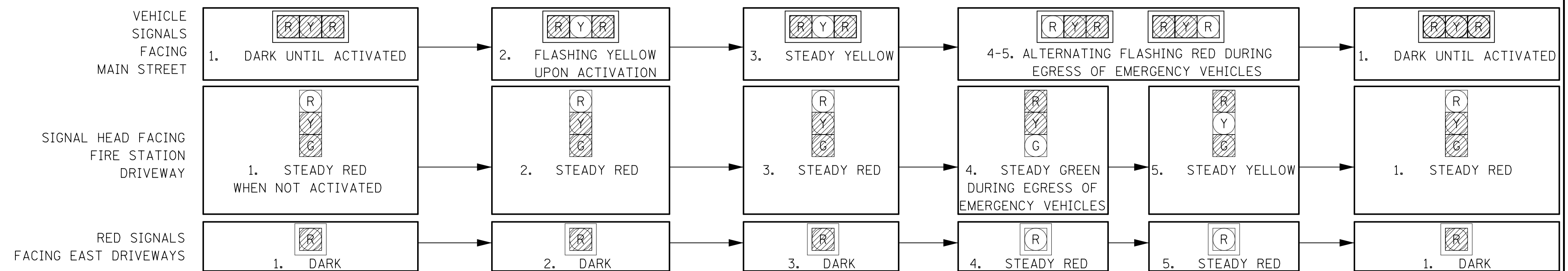
ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COM ED



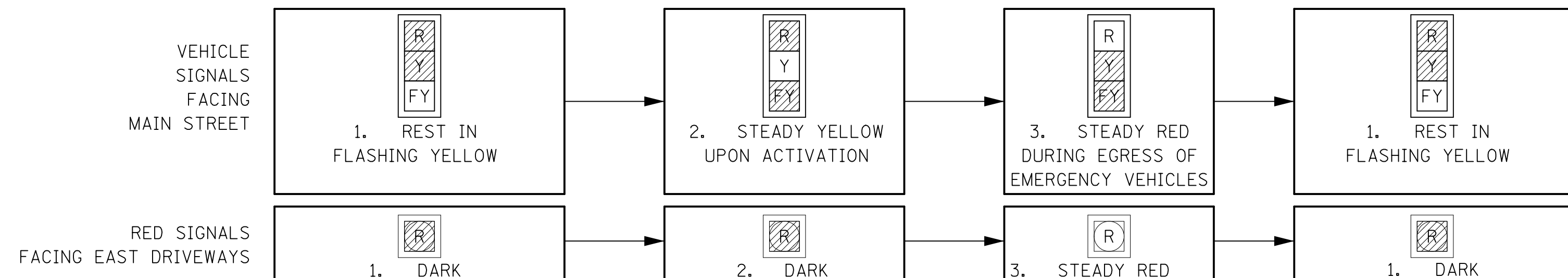
**CABLE PLAN**

(NOT TO SCALE)

**EXISTING PHASING SEQUENCE**



**PROPOSED PHASING SEQUENCE**



Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

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DATE - 09/06/2018

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NO SCALE

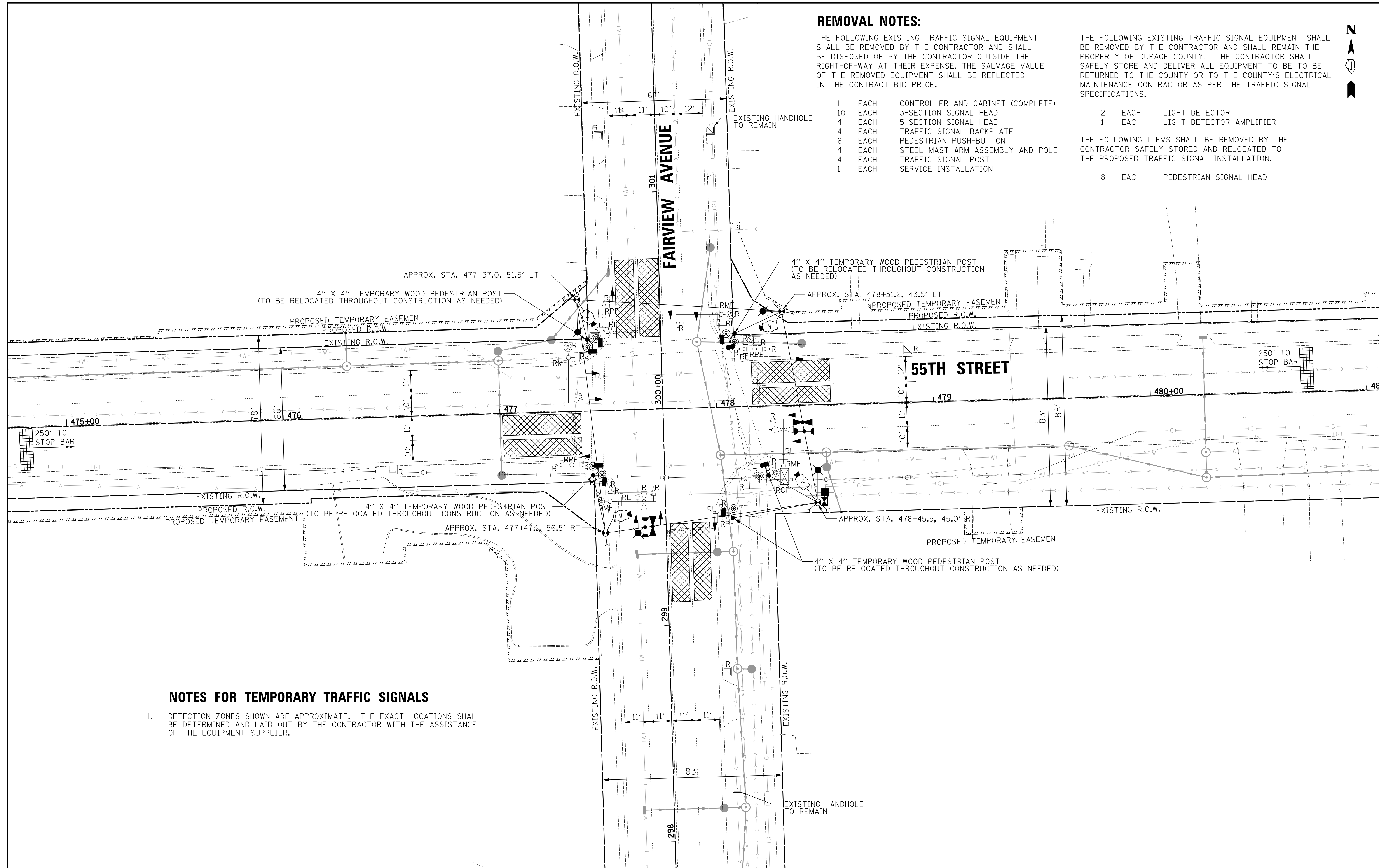
**CABLE PLAN AND SCHEDULE OF QUANTITIES  
FIRE STATION NO. 2 AT MAIN STREET**

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	269
<b>CONTRACT NO. 61E06</b>				
<small>FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT</small>				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NO.	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NO.	
	NO.	
	NO.	



**REMOVAL NOTES:**

- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
  - 10 EACH 3-SECTION SIGNAL HEAD
  - 4 EACH 5-SECTION SIGNAL HEAD
  - 4 EACH TRAFFIC SIGNAL BACKPLATE
  - 6 EACH PEDESTRIAN PUSH-BUTTON
  - 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
  - 4 EACH TRAFFIC SIGNAL POST
  - 1 EACH SERVICE INSTALLATION

- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF DUPAGE COUNTY. THE CONTRACTOR SHALL SAFELY STORE AND DELIVER ALL EQUIPMENT TO BE RETURNED TO THE COUNTY OR TO THE COUNTY'S ELECTRICAL MAINTENANCE CONTRACTOR AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.
- 2 EACH LIGHT DETECTOR
  - 1 EACH LIGHT DETECTOR AMPLIFIER
- THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION.
- 8 EACH PEDESTRIAN SIGNAL HEAD

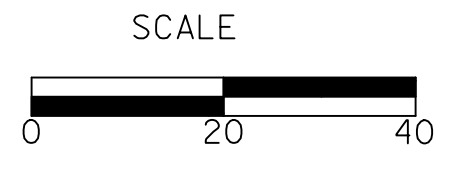
**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.



DESIGNED - LEP	REVISED -
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CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

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DEPARTMENT OF TRANSPORTATION



TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN  
55TH STREET AND FAIRVIEW AVENUE

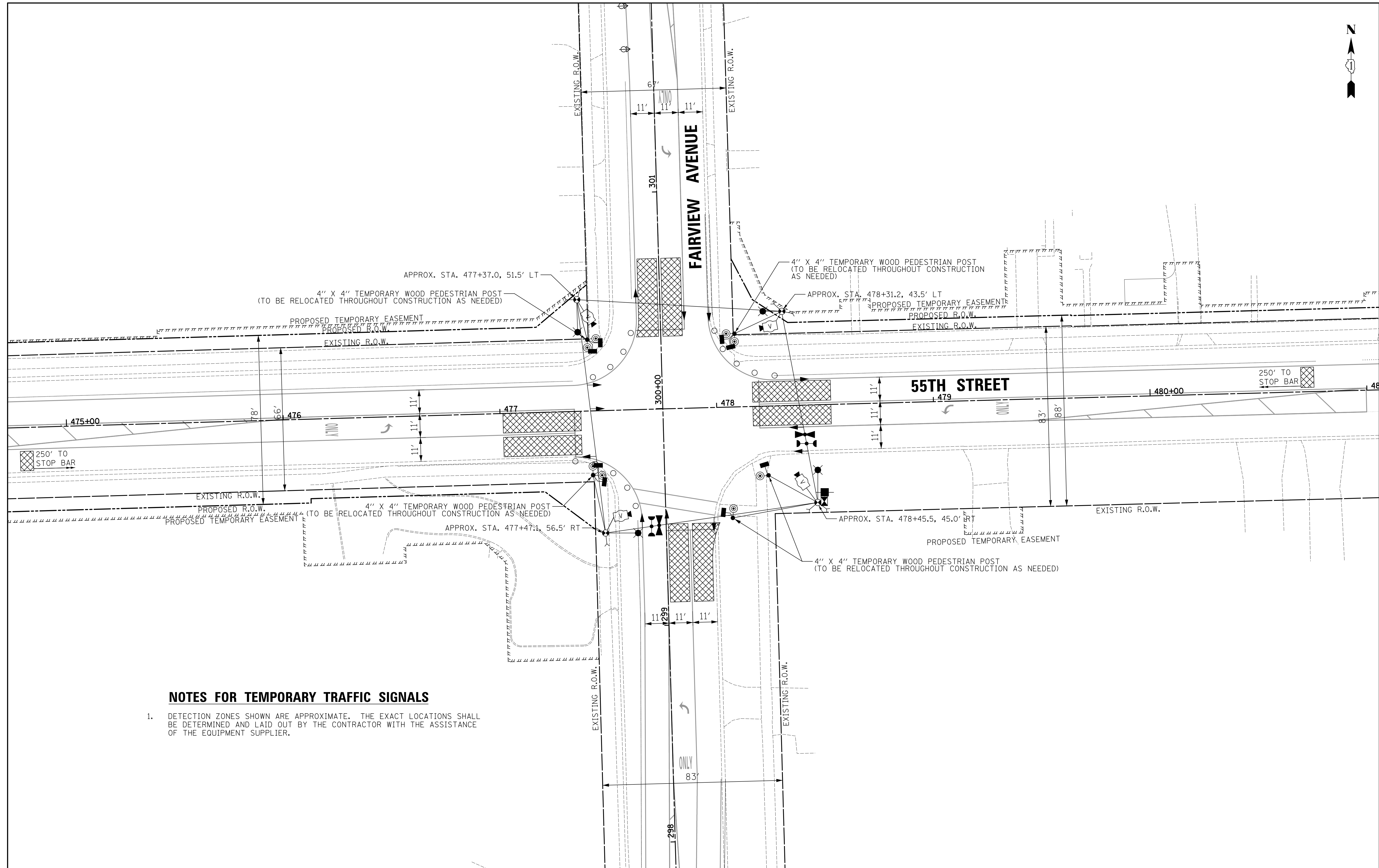
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	270
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
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	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



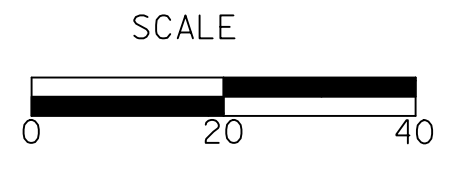
**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

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CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



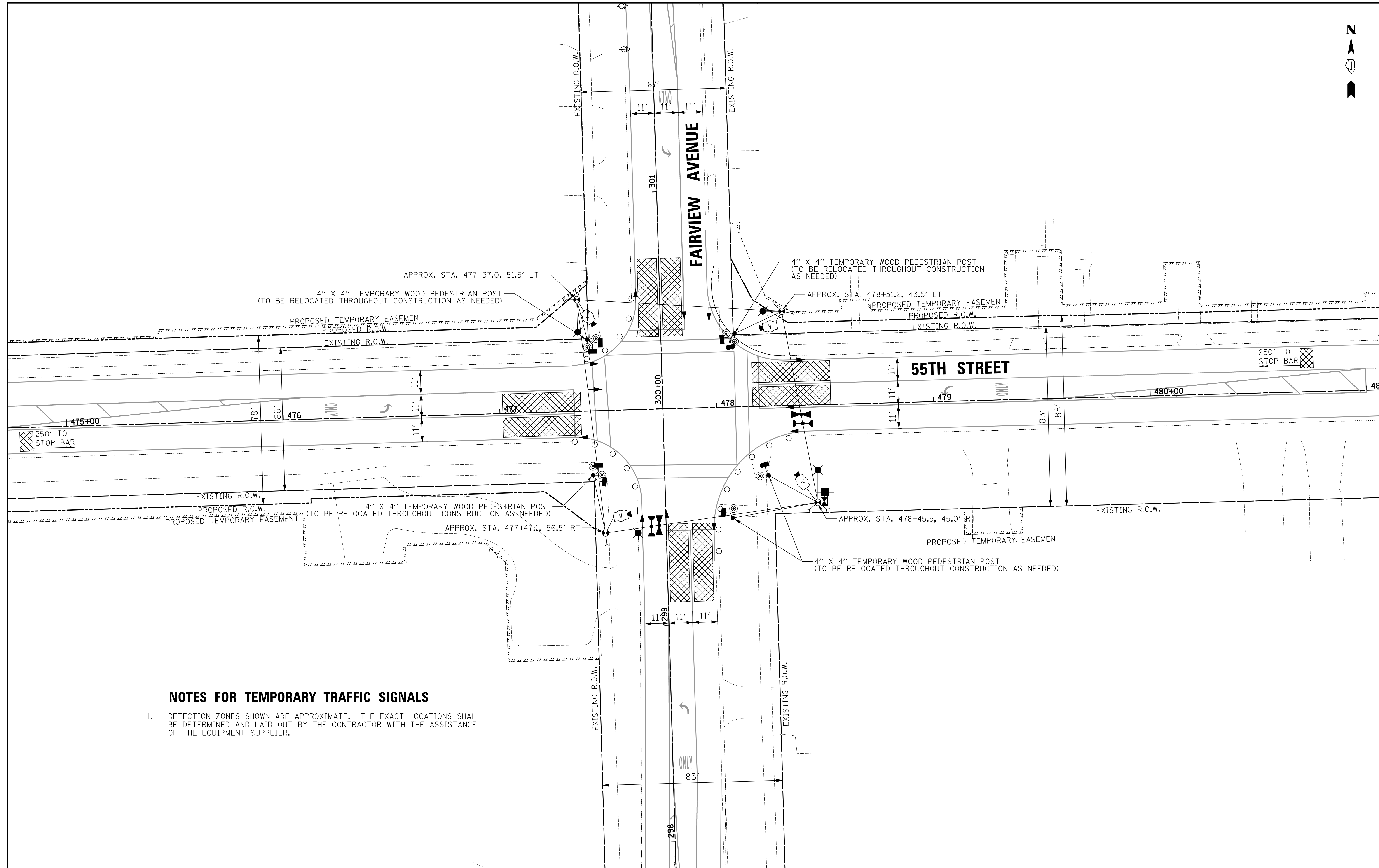
**TEMPORARY TRAFFIC SIGNAL PLAN  
55TH STREET AND FAIRVIEW AVENUE  
STAGE 1**

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	271
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NO.	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NO.	
	NO.	
	NO.	



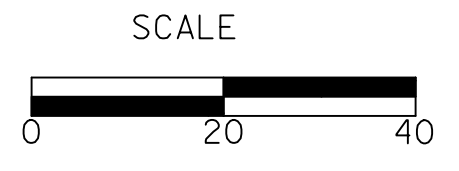
**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

**CIVILTECH**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DESIGNED - LEP	REVISED -
DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

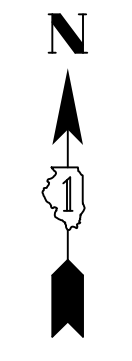


**TEMPORARY TRAFFIC SIGNAL PLAN  
 55TH STREET AND FAIRVIEW AVENUE  
 STAGE 2**

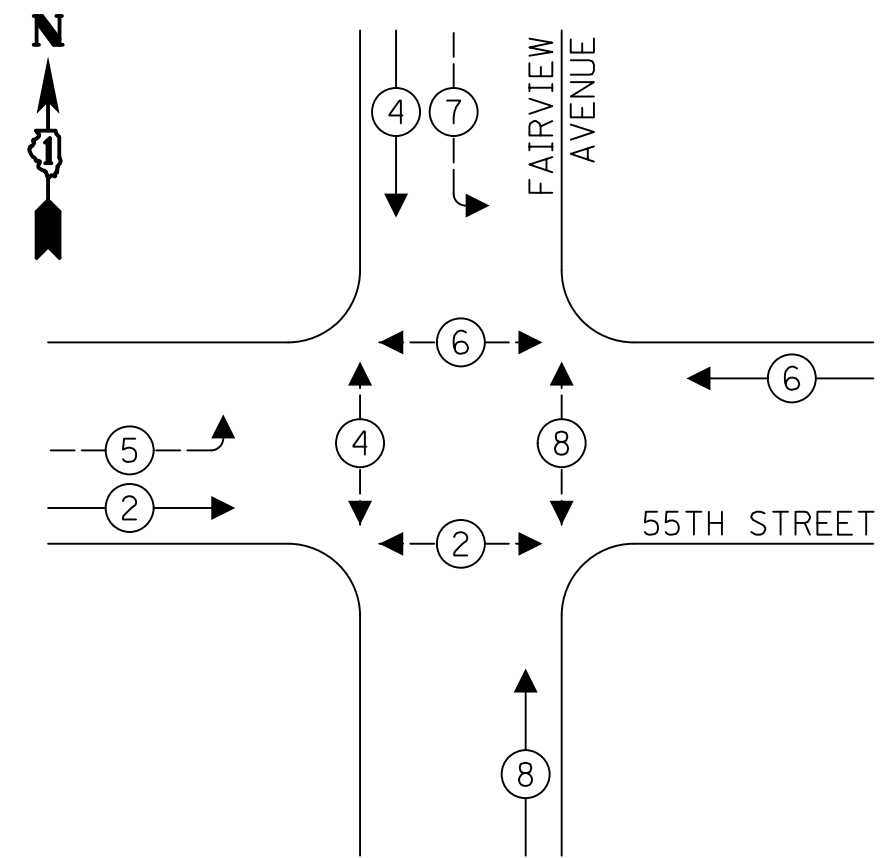
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	272
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

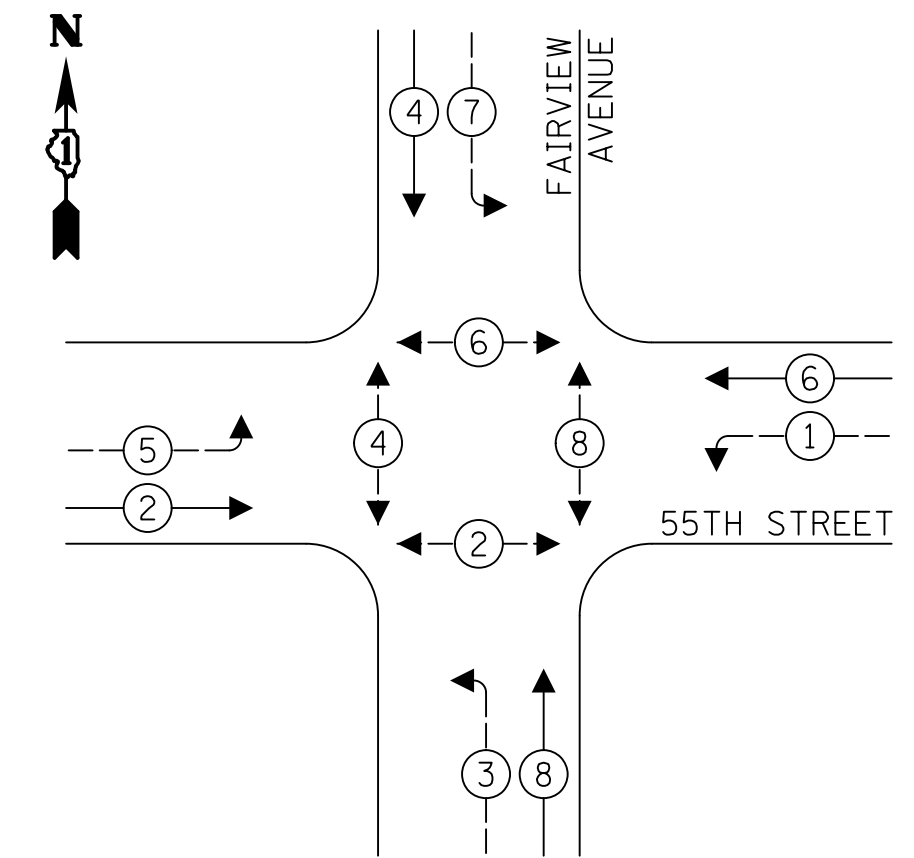




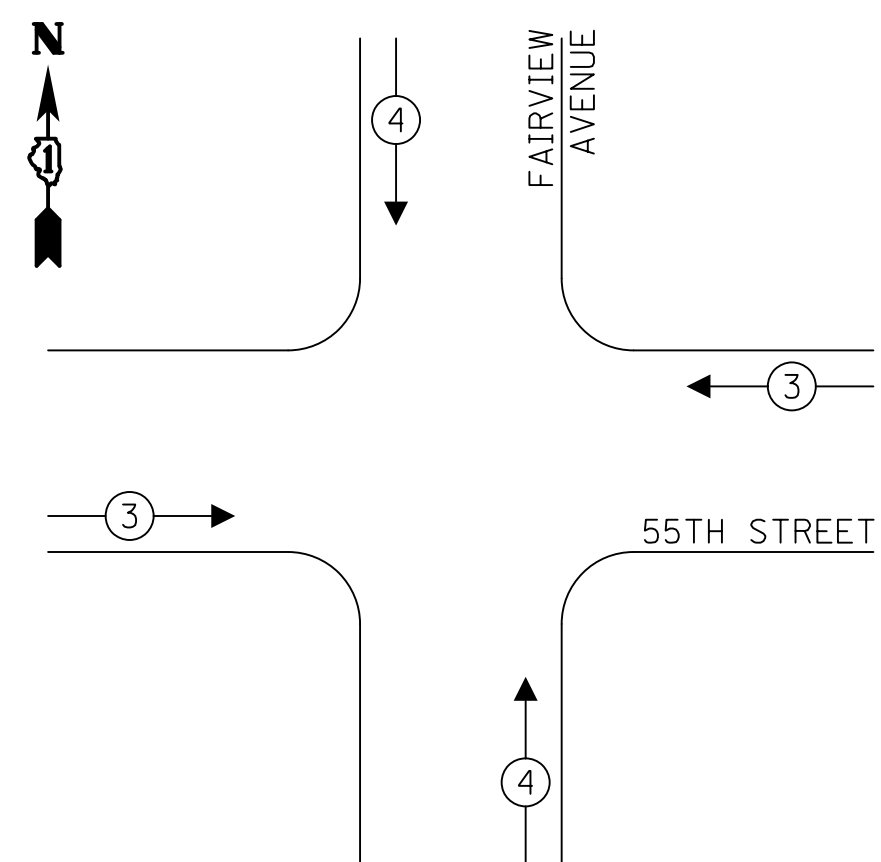
**TEMPORARY  
CONTROLLER SEQUENCE  
EXISTING CONFIGURATION**



**TEMPORARY  
CONTROLLER SEQUENCE  
STAGES 1 - 3**



**TEMPORARY  
EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**LEGEND:**

- ← (⊛) — PROTECTED PHASE
- ← (⊛) — PROTECTED/PERMITTED PHASE
- ← (⊛) — PEDESTRIAN PHASE
- ← (⊛) OL — OVERLAP

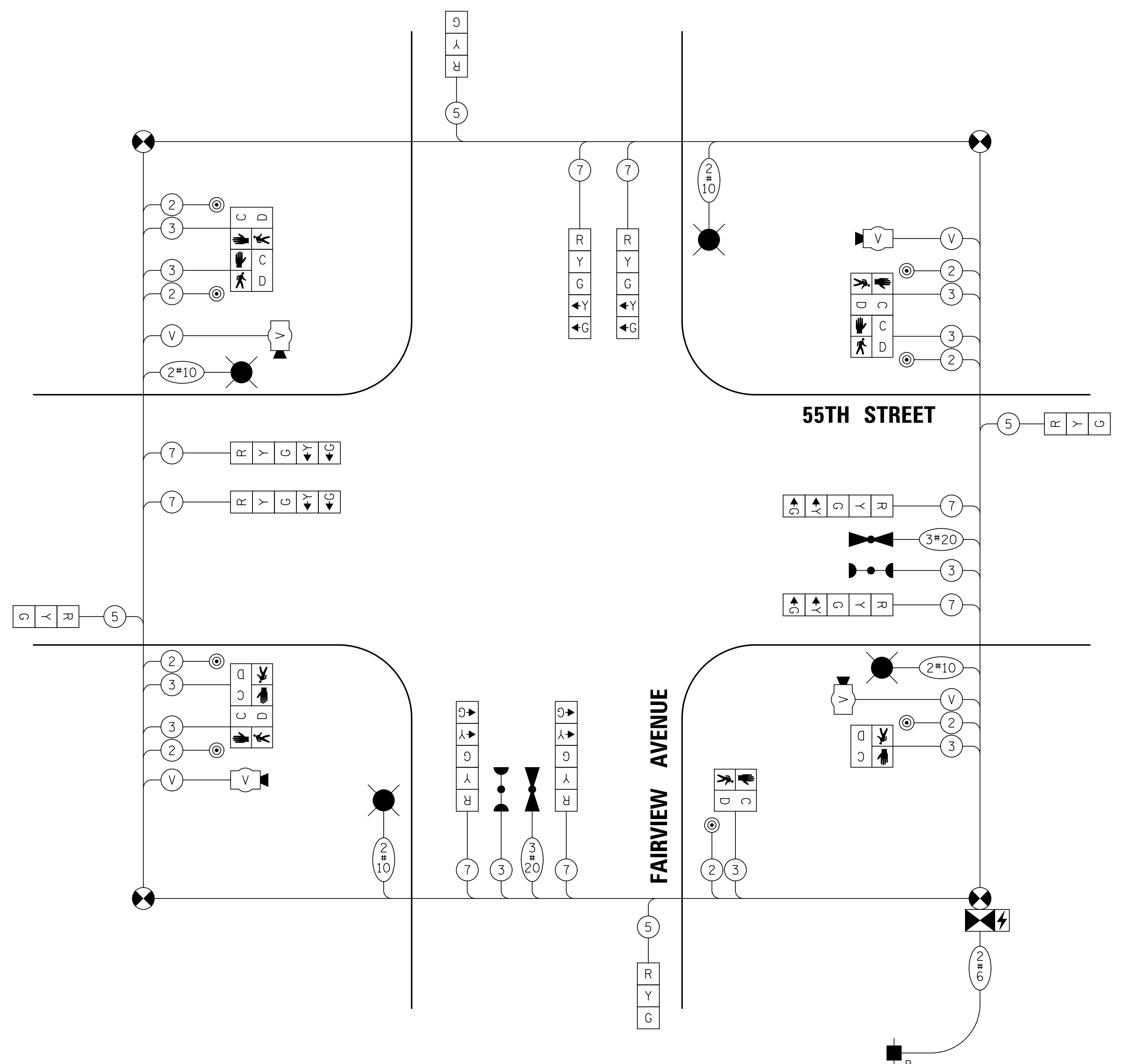
**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	4	250	50	500.0
TOTAL =				1093.8

ENERGY COSTS TO:

COUNTY OF DUPAGE  
421 N COUNTY FARM ROAD  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COM ED



**TEMPORARY CABLE PLAN**

(NOT TO SCALE)

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
ADD. FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
STRUCTURE	
NOTATIONS	

TS SHT NO. XX



Two Pierce Place, Suite 1400  
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Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NO SCALE

**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
55TH STREET AND FAIRVIEW AVENUE**

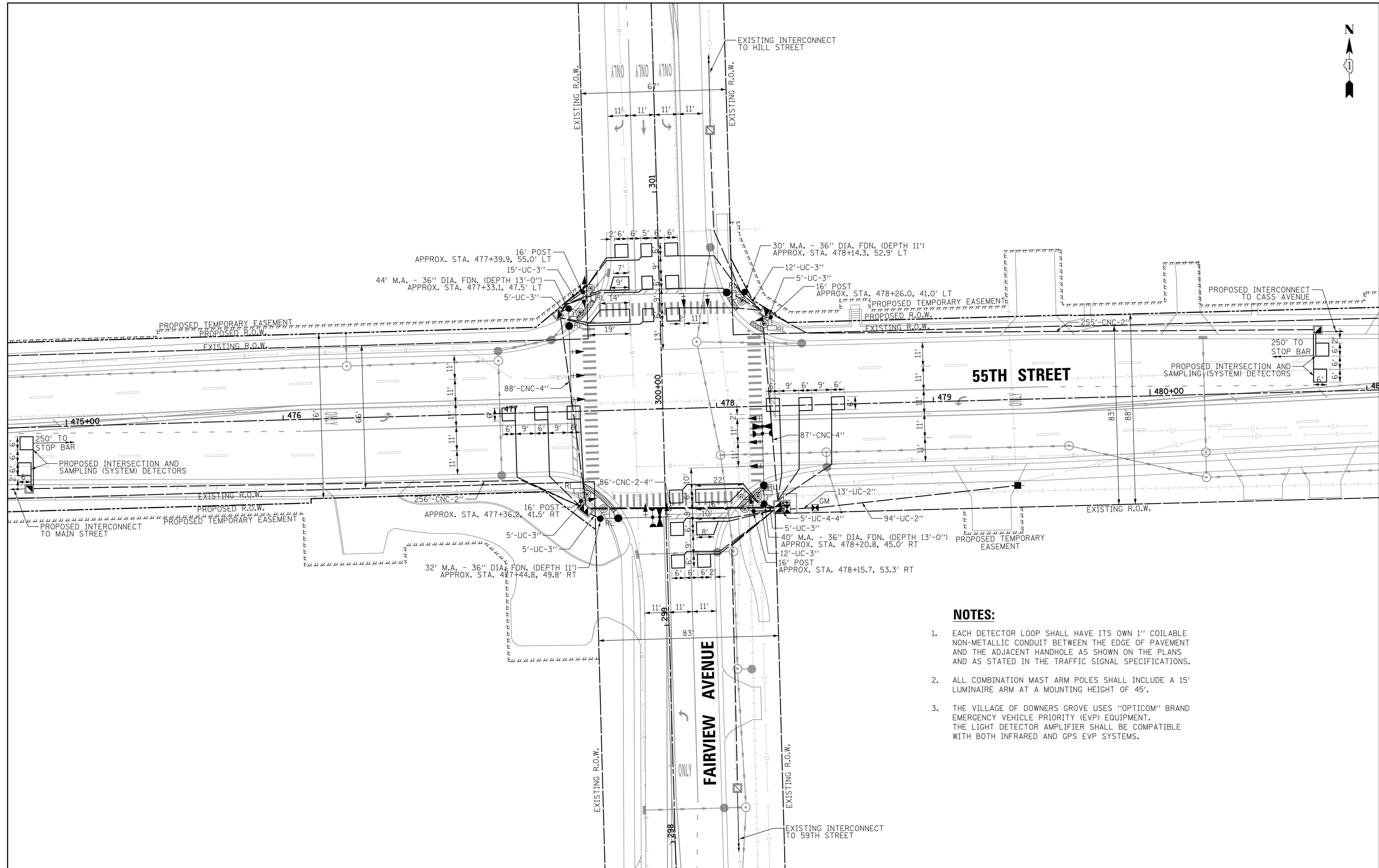
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	273
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003 (254)				



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



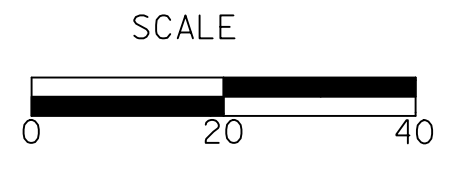
**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. ALL COMBINATION MAST ARM POLES SHALL INCLUDE A 15' LUMINAIRE ARM AT A MOUNTING HEIGHT OF 45'.
3. THE VILLAGE OF DOWNERS GROVE USES "OPTICOM" BRAND EMERGENCY VEHICLE PRIORITY (EVP) EQUIPMENT. THE LIGHT DETECTOR AMPLIFIER SHALL BE COMPATIBLE WITH BOTH INFRARED AND GPS EVP SYSTEMS.

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CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

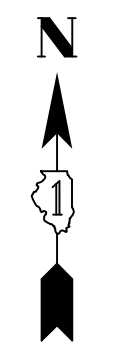
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



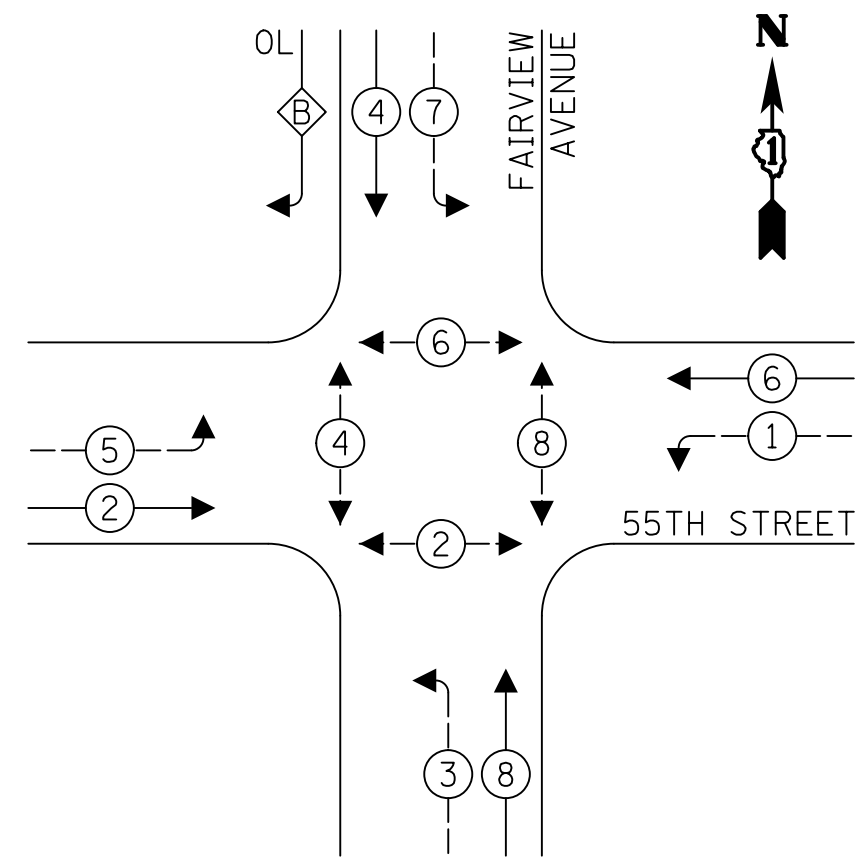
**TRAFFIC SIGNAL MODERNIZATION PLAN  
55TH STREET AND FAIRVIEW AVENUE**

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	274
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**PROPOSED CONTROLLER SEQUENCE**



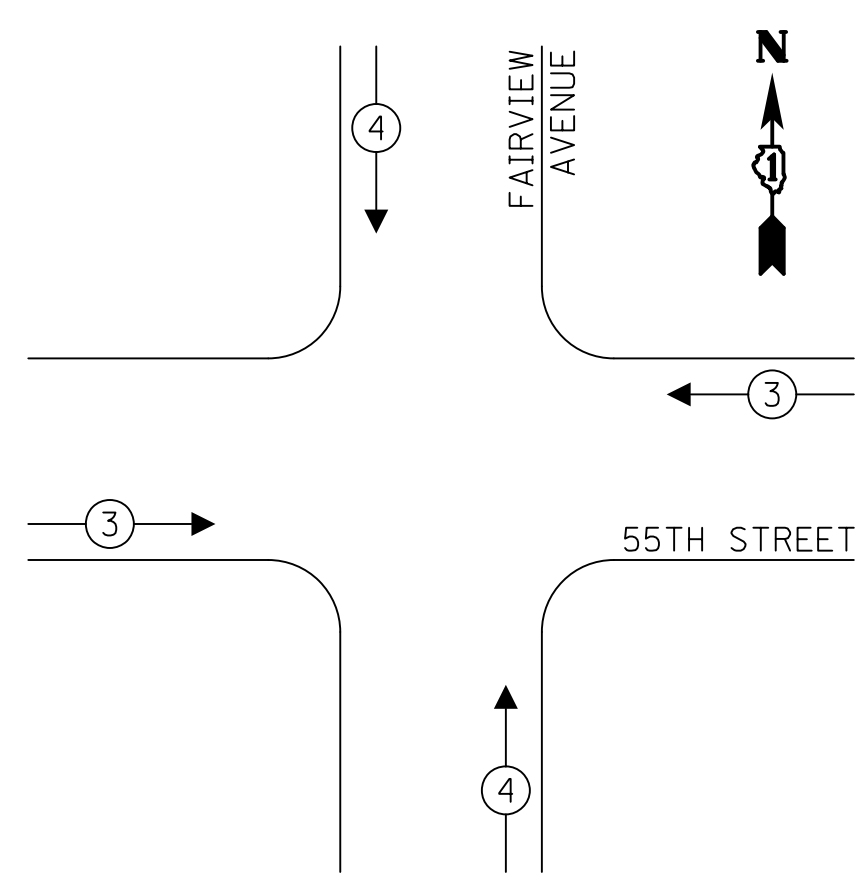
**LEGEND:**

- ← (⊙) — PROTECTED PHASE
- ← (⊙) — PROTECTED/PERMITTED PHASE
- ← (⊙) — PEDESTRIAN PHASE
- ← (⊙) OL — OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

$$\frac{\text{OVERLAP LETTER}}{B} = \frac{\text{PERMISSIVE PHASE}}{4} + \frac{\text{PROTECTED PHASE}}{5}$$

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL NOTES**

1. THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
2. LED INTERNALLY ILLUMINATED STREET NAME SIGNS AND LUMINAIRES SHALL NOT BE CONNECTED TO THE UNINTERRUPTABLE POWER SUPPLY.

**LEGEND**

- (S) NO. 14 3/C (BLACK, WHITE, GREEN), TYPE S00W (PAID FOR AS CABLE, SPECIAL)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
ARROW	20	10	10	20.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	-	100	-
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	4	165	50	330.0
TOTAL =				1053.5

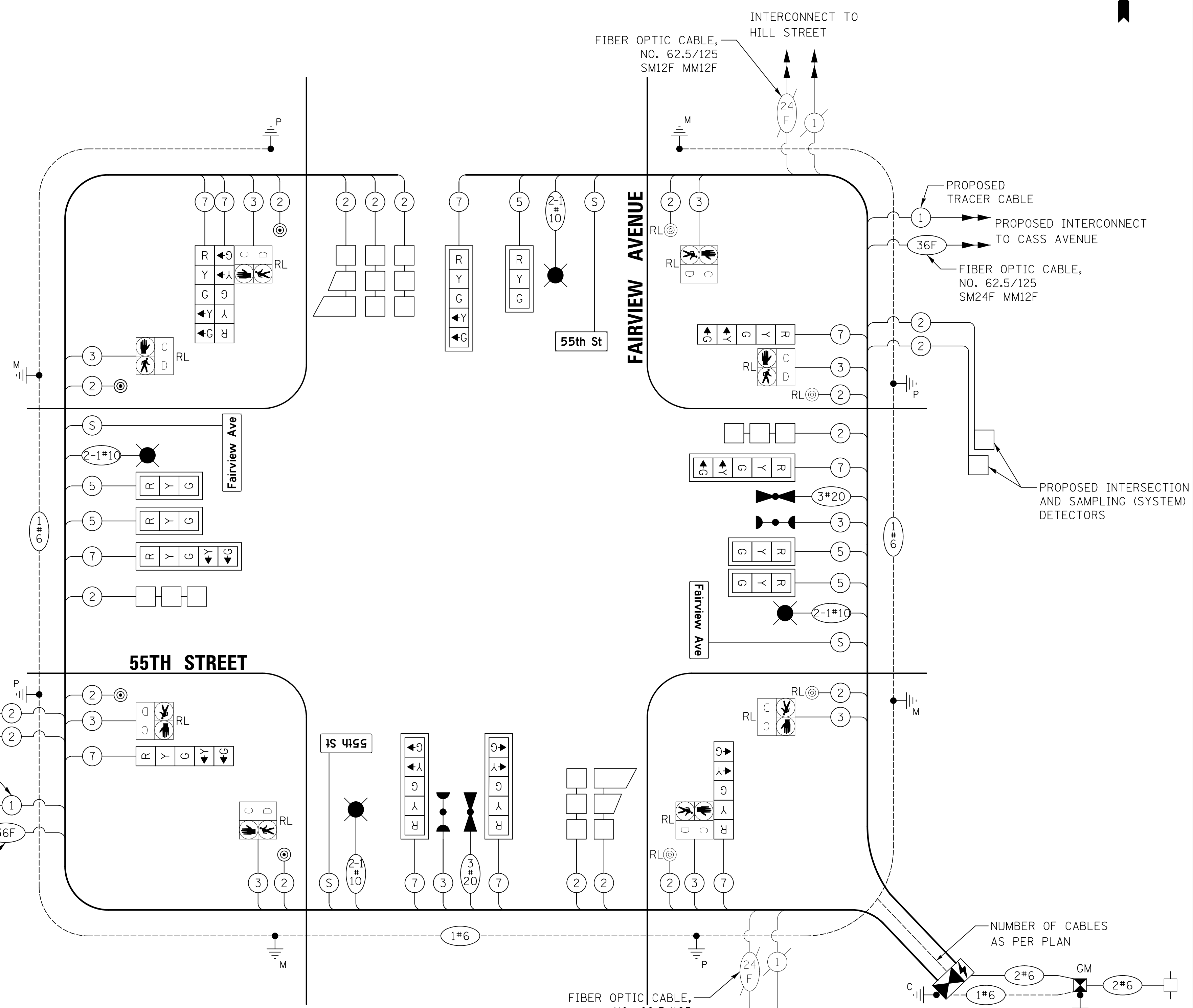
ENERGY COSTS TO:

COUNTY OF DUPAGE  
421 N COUNTY FARM ROAD  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COM ED

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROPOSED TRACER CABLE  
PROPOSED INTERCONNECT TO MAIN STREET  
FIBER OPTIC CABLE, NO. 62.5/125 SM24F MM12F



**CABLE PLAN**

(NOT TO SCALE)



DESIGNED - LEP  
DRAWN - OJT  
CHECKED - JJE  
DATE - 09/06/2018

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NO SCALE

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
55TH STREET AND FAIRVIEW AVENUE**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	275

CONTRACT NO. 61E06

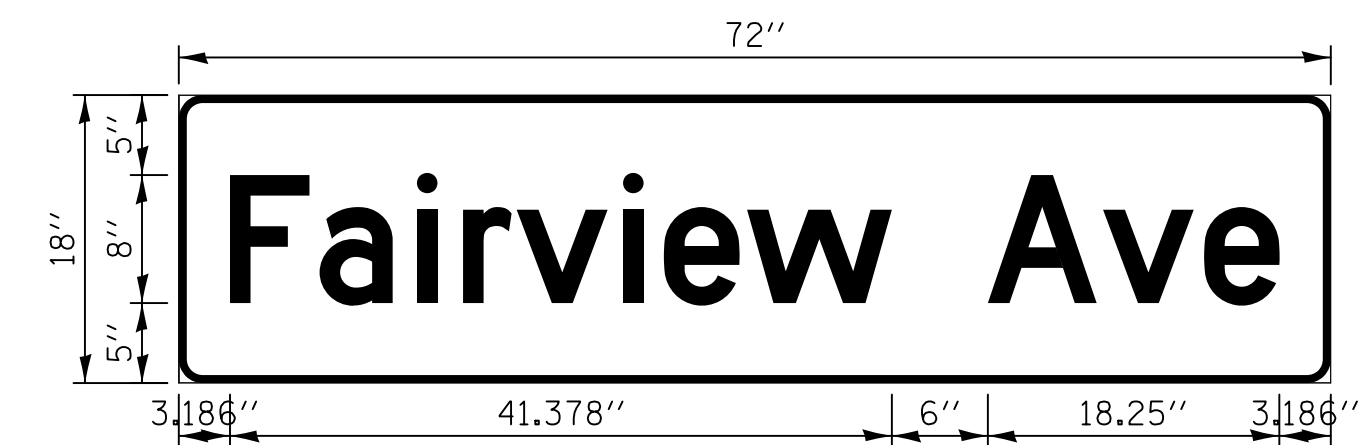
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT

PLAN	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NO. OF WAY CHECKED		
NO.		
CADD FILE NAME		

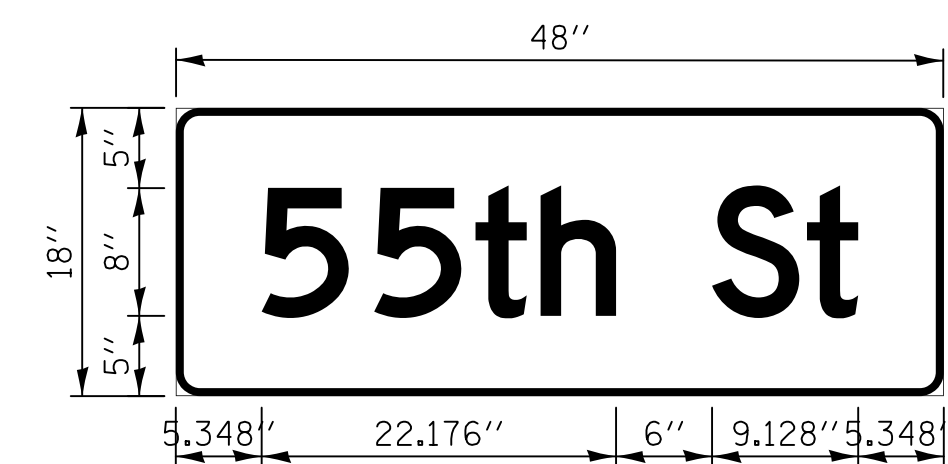
PROFILE	DATE	BY
SURVEYED		
PLOTTED		
CHECKED		
NO. OF WAY CHECKED		
NO.		
STRUCTURE NOTATIONS CHKD		

**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	107
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	64
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	367
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	511
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1502
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1104
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1428
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	861
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1746
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2273
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	148
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	520
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	11
DETECTOR LOOP, TYPE I	FOOT	1045
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	268
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CABLE, SPECIAL	FOOT	635
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	LED SNS	ZZ	2 (TWO-SIDED)

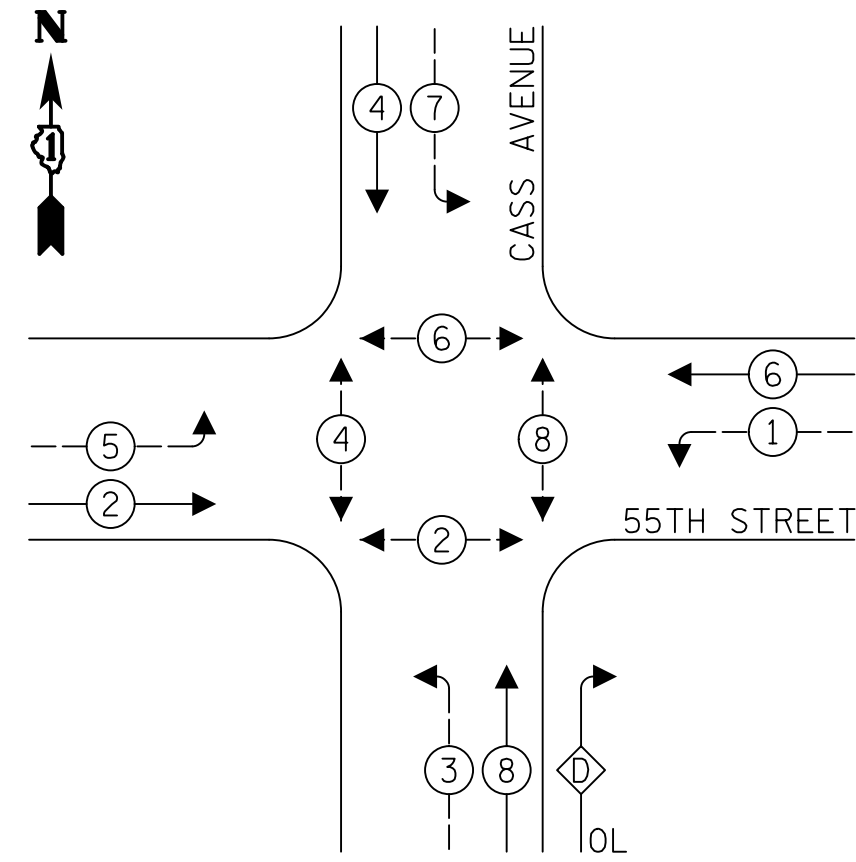


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.00	LED SNS	ZZ	2 (TWO-SIDED)

PLAN	SURVEYED	DATE
	PLOTTED	
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	NO. OF WAY CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	

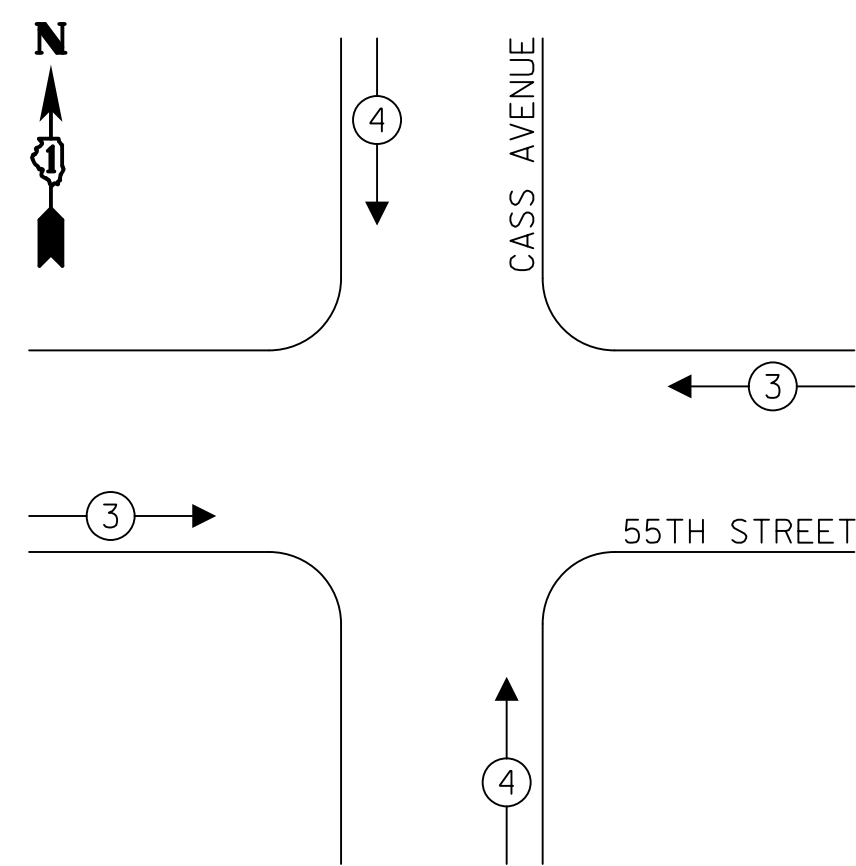
**CONTROLLER SEQUENCE**



**LEGEND:**

- ← (*) — PROTECTED PHASE
- ← (*) — PROTECTED/PERMITTED PHASE
- ← (*) — PEDESTRIAN PHASE
- ← OL — OVERLAP

**EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	17	50	144.5
(YELLOW)	17	25	5	21.25
(GREEN)	17	15	45	114.75
ARROW	20	12	10	24.0
PED. SIGNAL	8	25	100	200.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	4	400	50	800.0
TOTAL =				1699.5

ENERGY COSTS TO:  
 COUNTY OF DUPAGE  
 421 N COUNTY FARM ROAD  
 WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
 PHONE: (866) 639-3532  
 COMPANY: COM ED

EXISTING INTERSECTION  
AND PROPOSED SAMPLING  
(SYSTEM) DETECTORS

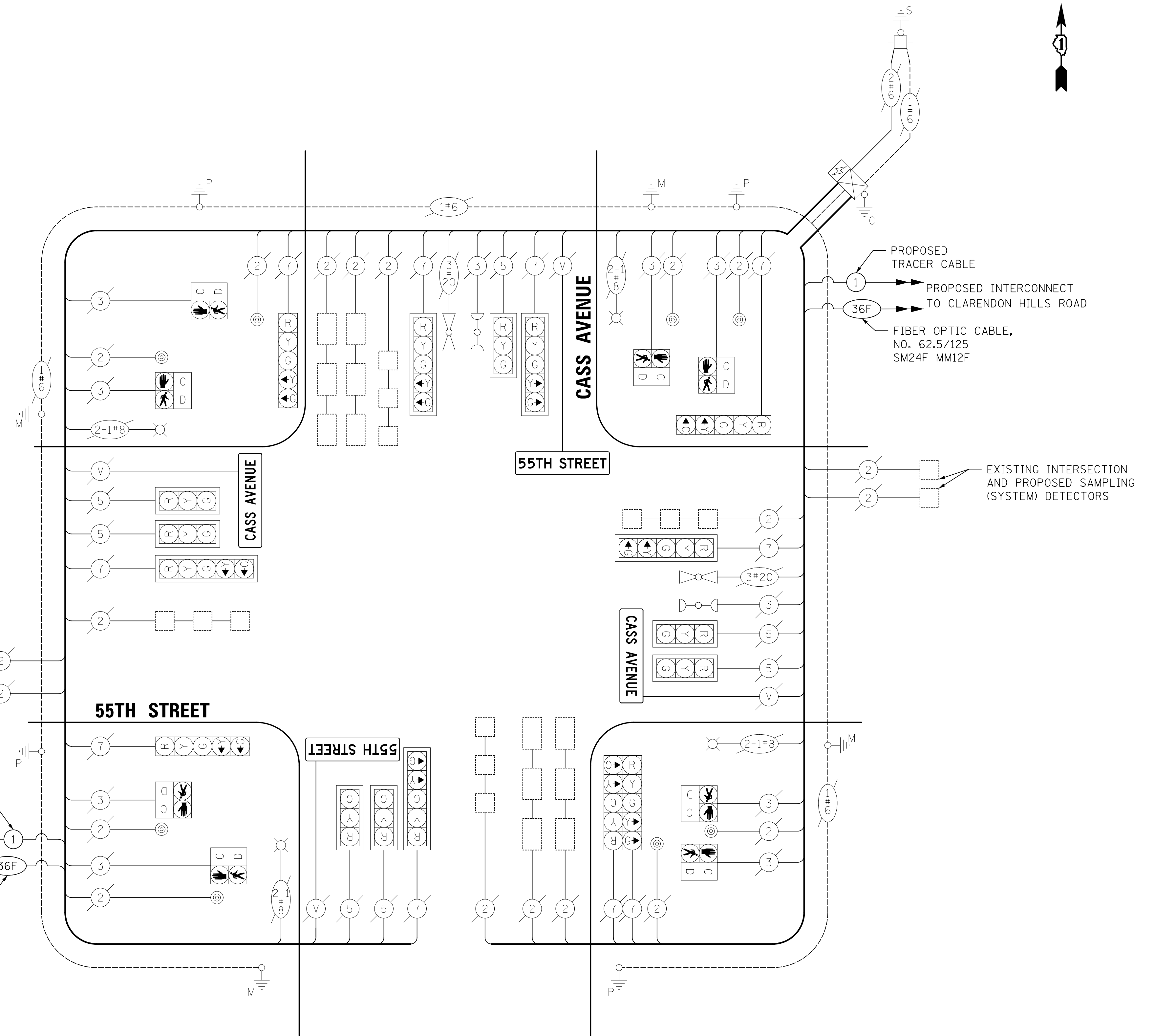
PROPOSED TRACER CABLE  
 PROPOSED INTERCONNECT  
TO FAIRVIEW AVENUE  
 FIBER OPTIC CABLE,  
NO. 62.5/125  
SM24F MM12F

**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

**CABLE PLAN**

(NOT TO SCALE)



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	DATE	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	BY	
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	FILE NAME	

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 REVISED -

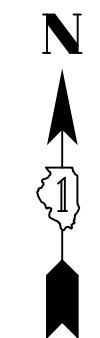
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NO SCALE

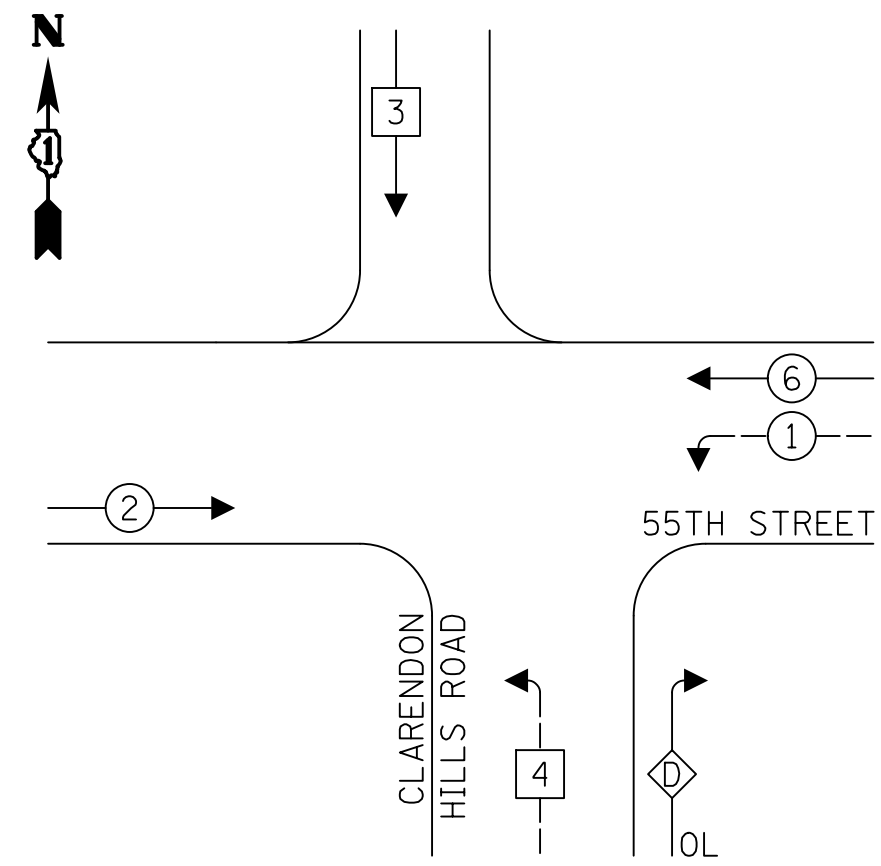
**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
55TH STREET AND CASS AVENUE**

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	277
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



**CONTROLLER SEQUENCE**



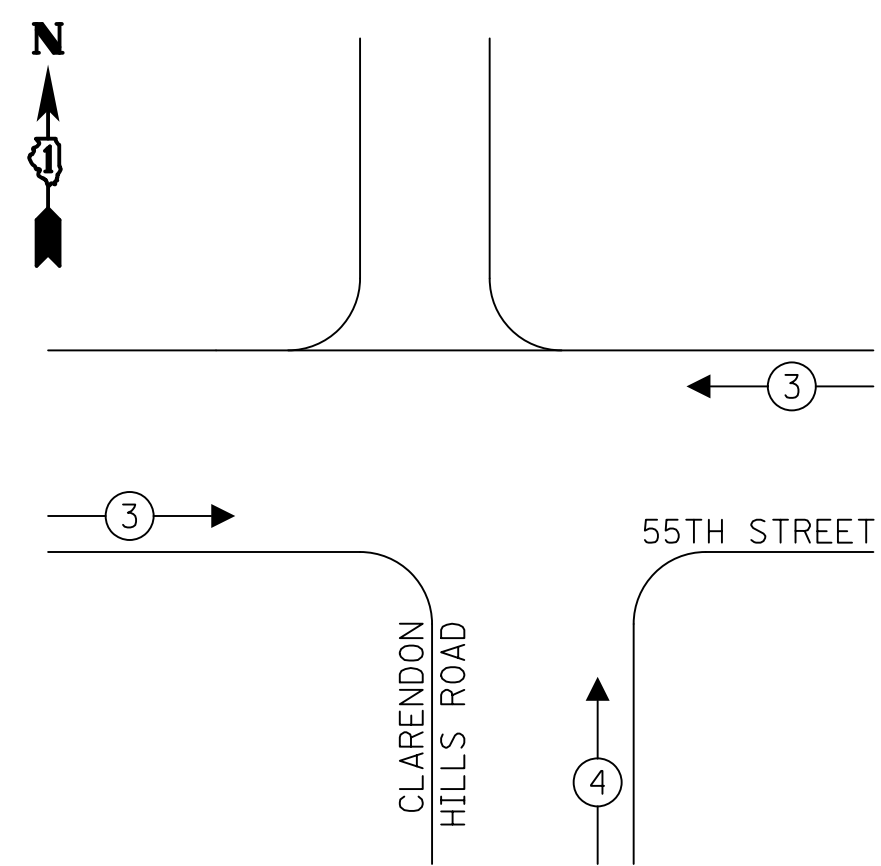
**LEGEND:**

- ←(*) PROTECTED PHASE
- ←(*/-) PROTECTED/PERMITTED PHASE
- ←(*/) PEDESTRIAN PHASE
- ←(*/) OL OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

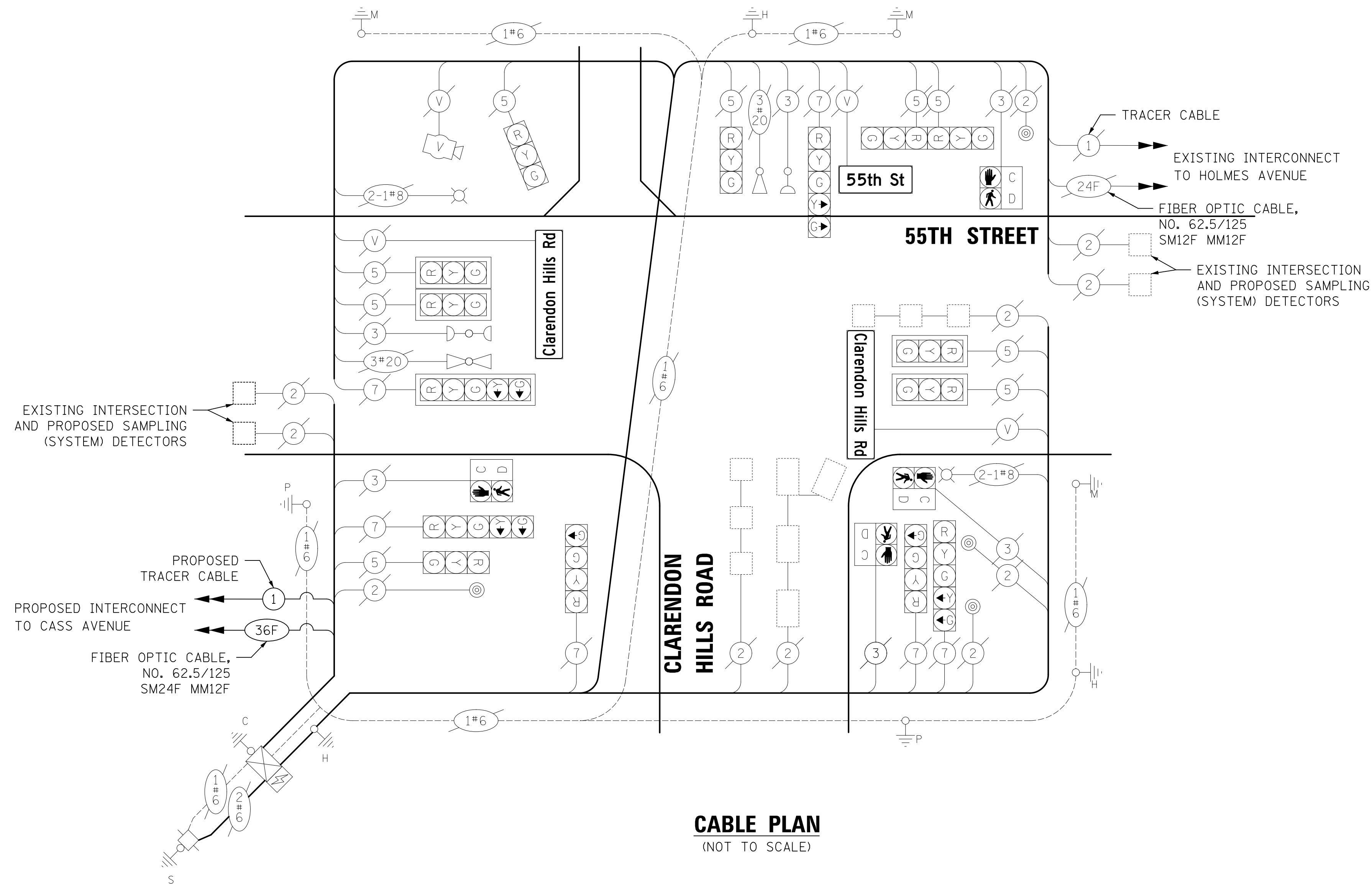
$$\text{OVERLAP LETTER } D = \frac{\text{PERMISSIVE PHASE}}{4} + \frac{\text{PROTECTED PHASE}}{1}$$

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL NOTES**

1. THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.



**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	17	50	127.5
(YELLOW)	15	25	5	18.75
(GREEN)	15	15	45	101.25
ARROW	10	12	10	12.0
PED. SIGNAL	4	25	100	100.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	400	50	400.0
TOTAL =				884.5

ENERGY COSTS TO:

COUNTY OF DUPAGE  
421 N COUNTY FARM ROAD  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (866) 639-3532  
COMPANY: COM ED

**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	STRUCTURE	
	NOTATIONS	
	CHKD	



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DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

NO SCALE

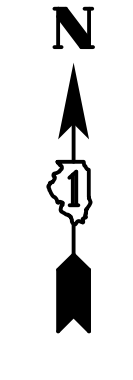
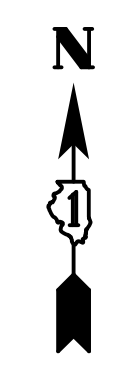
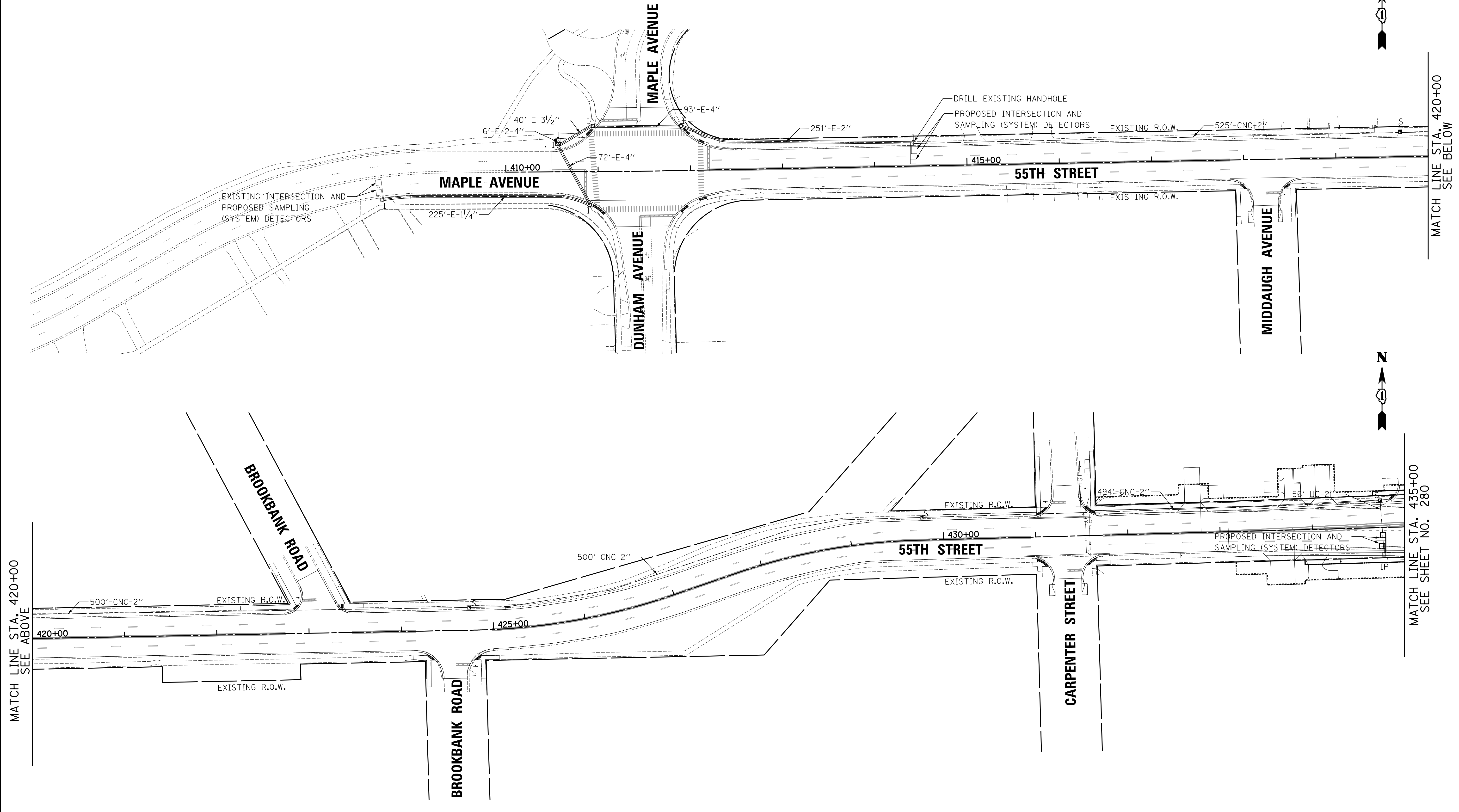
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
**55TH STREET AND CLARENDON HILLS ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	278
CONTRACT NO. 61E06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NO.	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NO.	
	NO.	
	NO.	



MATCH LINE STA. 420+00  
SEE ABOVE

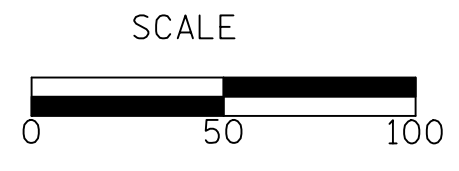
MATCH LINE STA. 435+00  
SEE SHEET NO. 280

MATCH LINE STA. 420+00  
SEE BELOW

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Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**INTERCONNECT PLAN  
55TH STREET**

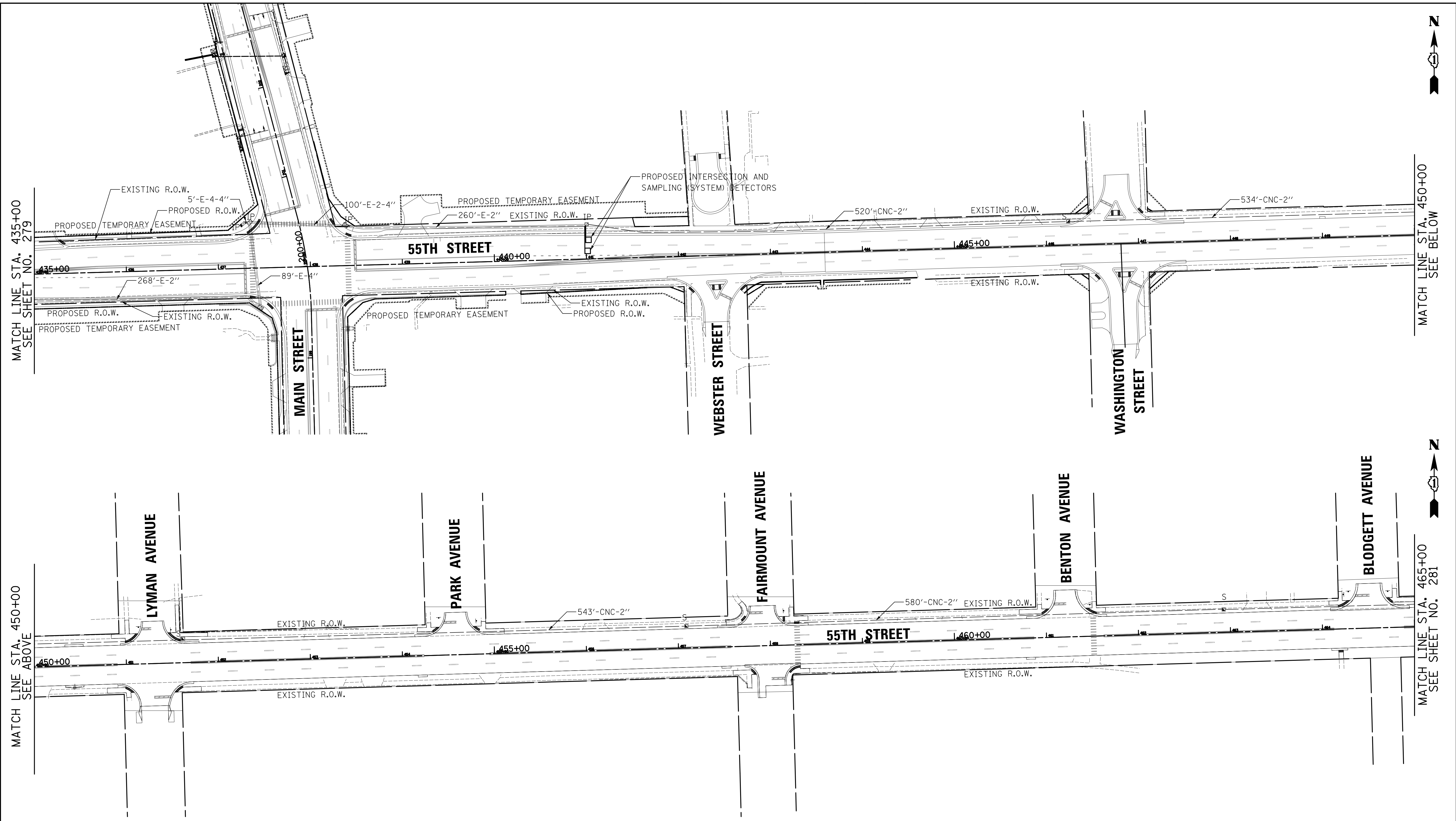
SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	279
CONTRACT NO. 61E06				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	DATE	
	FILE NAME	

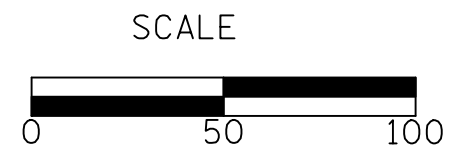
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	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	DATE	
	FILE NAME	



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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**INTERCONNECT PLAN**  
**55TH STREET**

SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	280
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

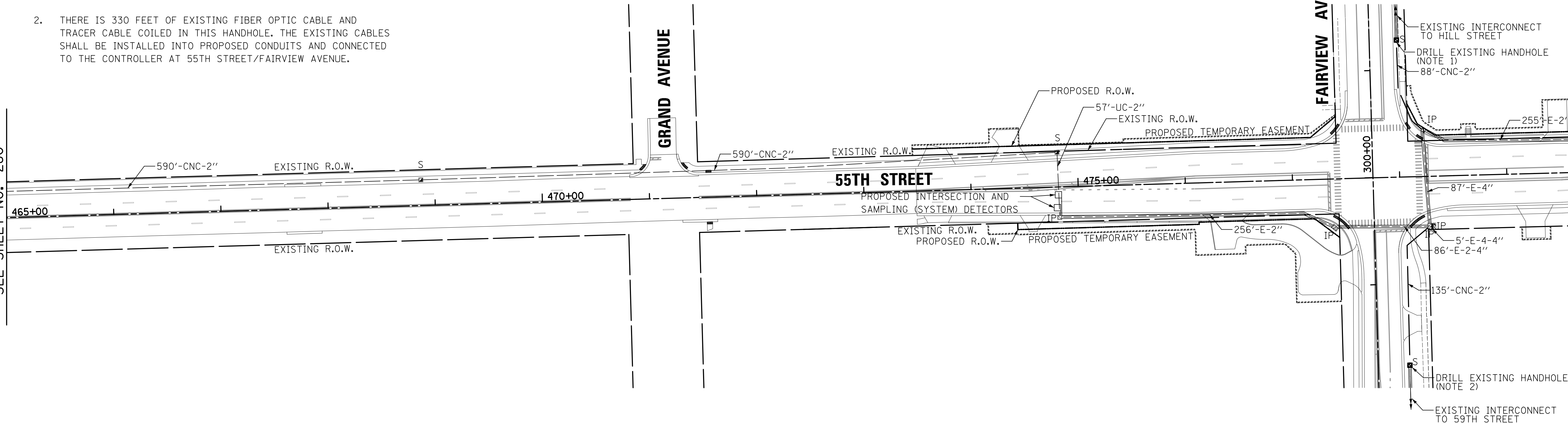


**NOTES**

1. THERE IS 300 FEET OF EXISTING FIBER OPTIC CABLE AND TRACER CABLE COILED IN THIS HANDHOLE. THE EXISTING CABLES SHALL BE INSTALLED INTO PROPOSED CONDUITS AND CONNECTED TO THE CONTROLLER AT 55TH STREET/FAIRVIEW AVENUE.
2. THERE IS 330 FEET OF EXISTING FIBER OPTIC CABLE AND TRACER CABLE COILED IN THIS HANDHOLE. THE EXISTING CABLES SHALL BE INSTALLED INTO PROPOSED CONDUITS AND CONNECTED TO THE CONTROLLER AT 55TH STREET/FAIRVIEW AVENUE.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	

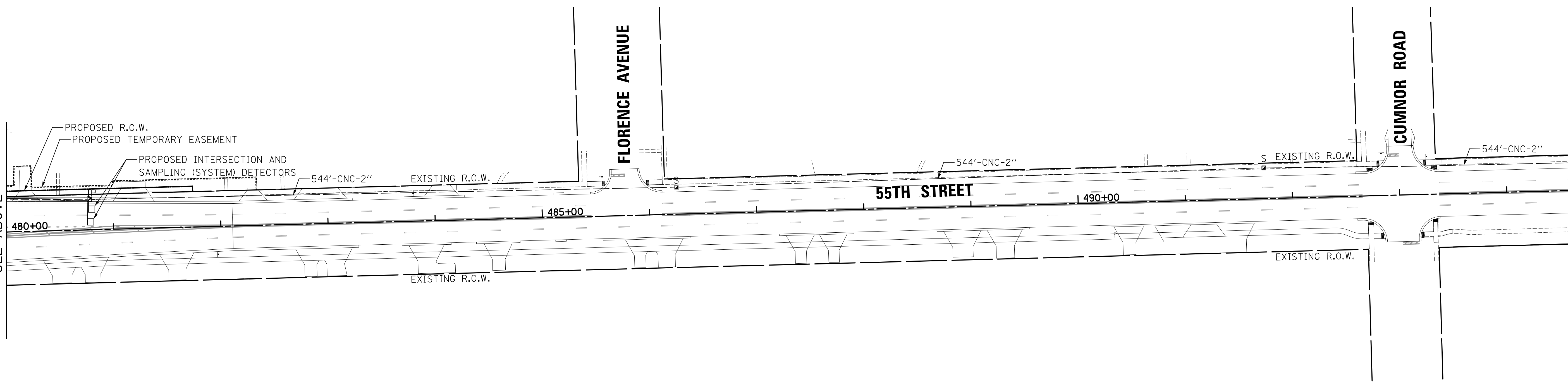
MATCH LINE STA. 465+00  
SEE SHEET NO. 280



MATCH LINE STA. 480+00  
SEE BELOW

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	STRUCTURE NOTATIONS CHKD	

MATCH LINE STA. 480+00  
SEE ABOVE

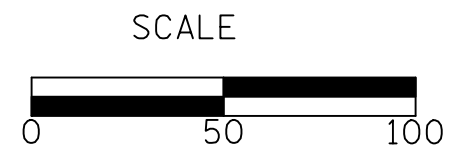


MATCH LINE STA. 495+00  
SEE SHEET NO. 282

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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**INTERCONNECT PLAN  
55TH STREET**

SHEET NO. 3 OF 6 SHEETS STA. TO STA.

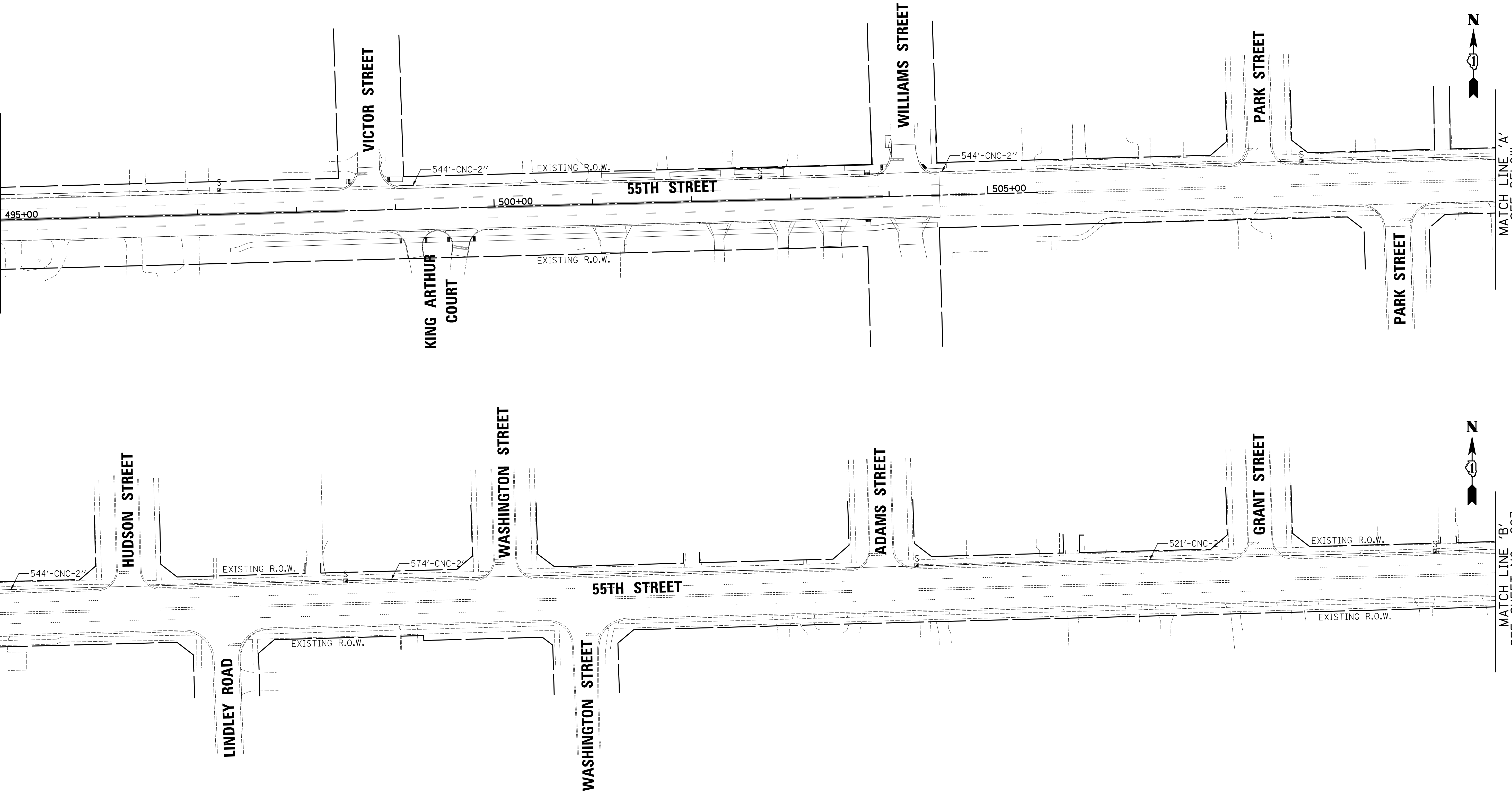
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1504	11-00302-04-CH	DUPAGE	341	281
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61E06	

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	NO.	
	ADD. FILE NAME	

MATCH LINE STA. 495+00  
SEE SHEET NO. 281

MATCH LINE 'A'  
SEE ABOVE



MATCH LINE 'A'  
SEE BELOW

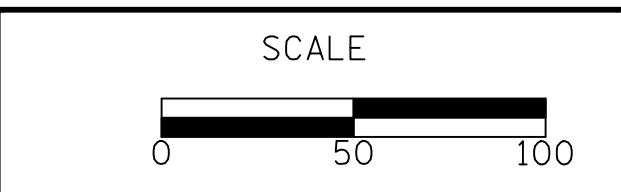
MATCH LINE 'B'  
SEE SHEET NO. 283



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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



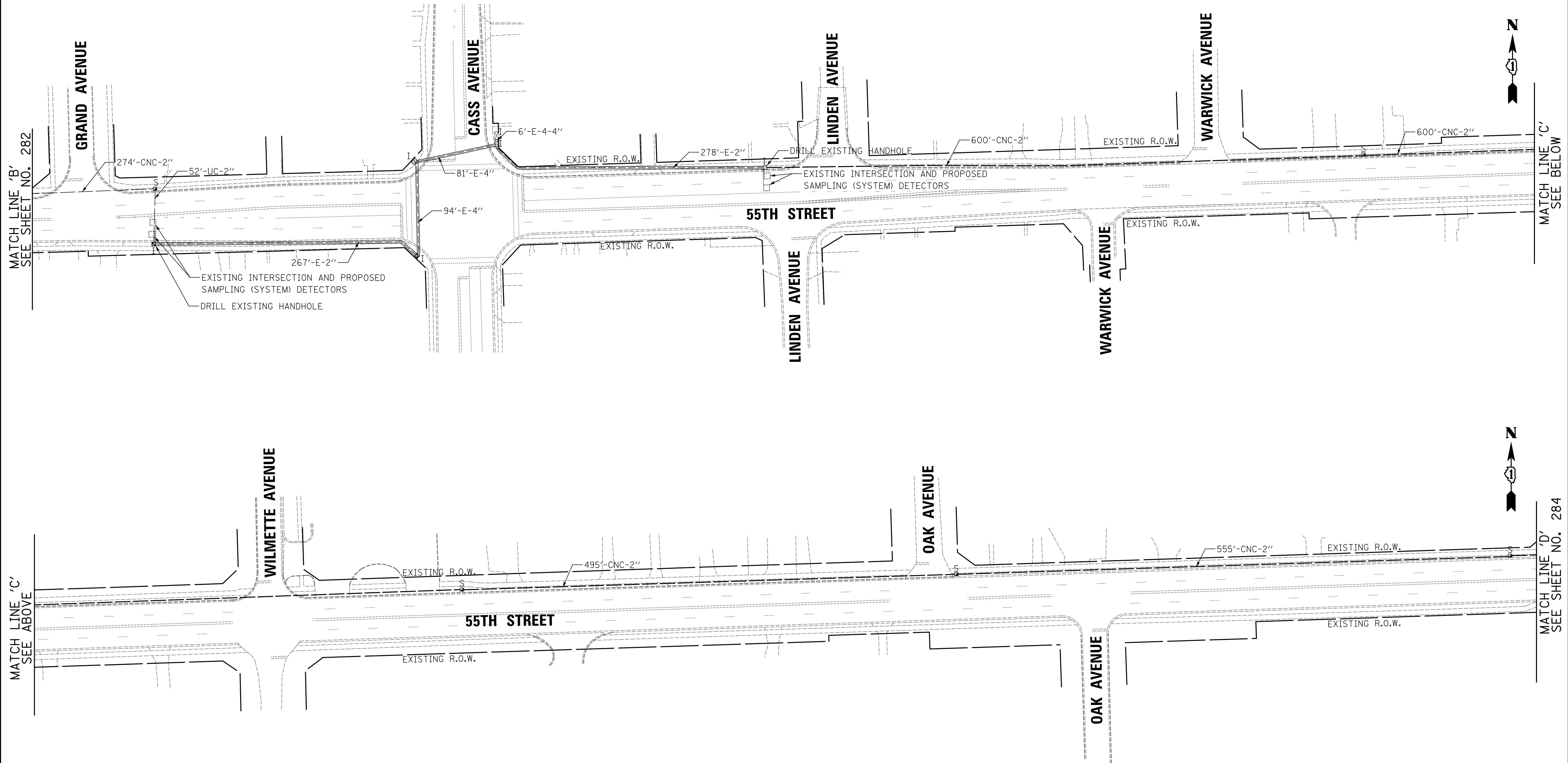
**INTERCONNECT PLAN  
55TH STREET**

SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	282
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NOTE BOOK	
	NO.	
	ADD. FILE NAME	

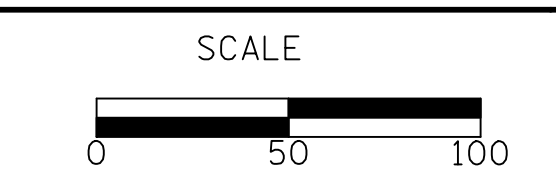
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS	CHKD



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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 09/06/2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



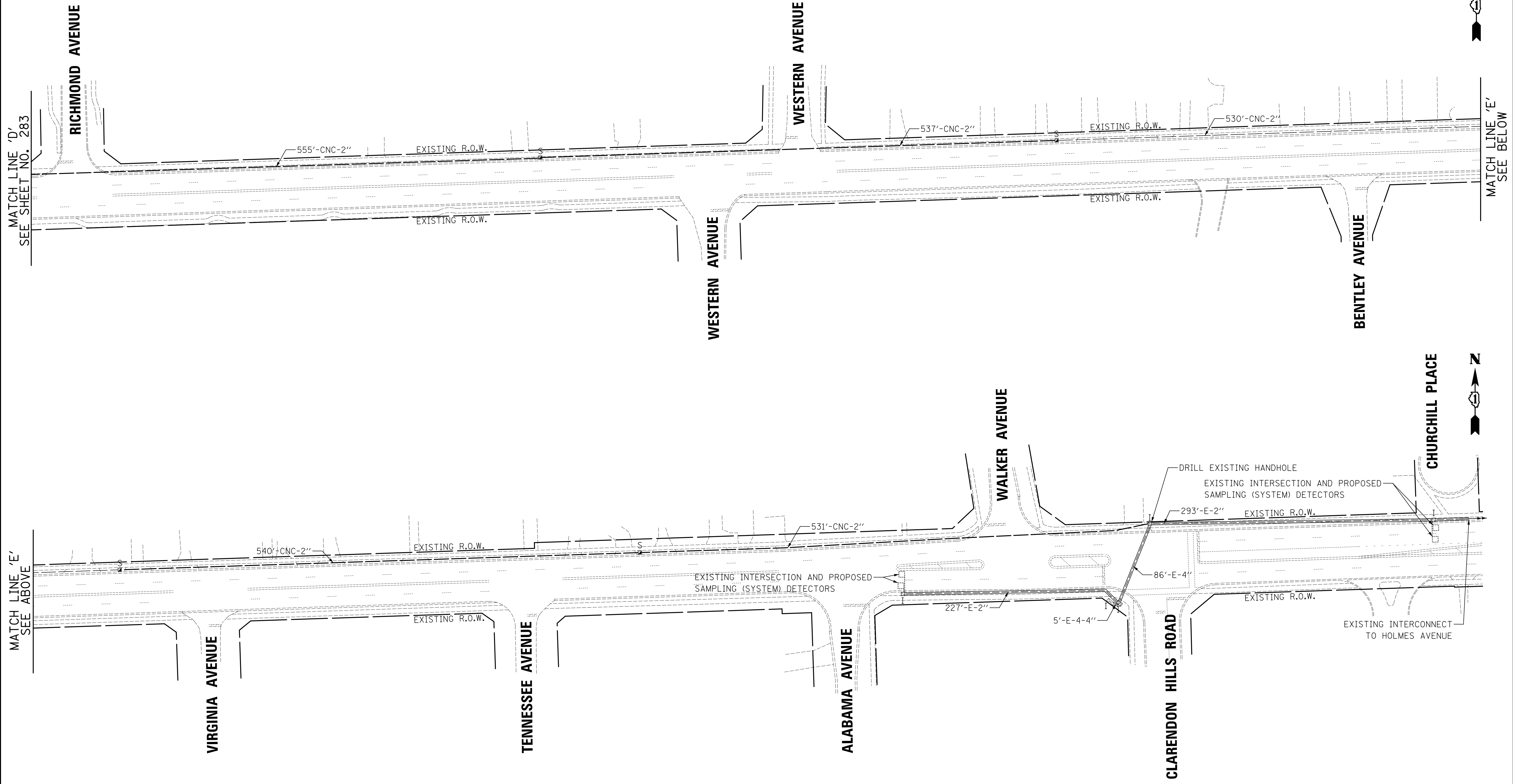
**INTERCONNECT PLAN**  
**55TH STREET**

SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	283
				<b>CONTRACT NO. 61E06</b>
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

PLAN	SURVEYED	DATE
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	CHECKED	
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	NO. OF WAY CHECKED	
	ADD. FILE NAME	
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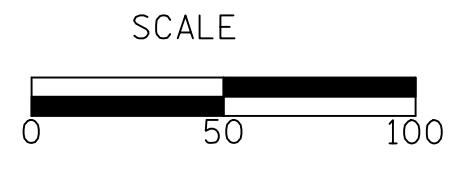
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	ADD. FILE NAME	
	NO.	



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DRAWN	- OJT	REVISED	-
CHECKED	- JJE	REVISED	-
DATE	- 09/06/2018	REVISED	-

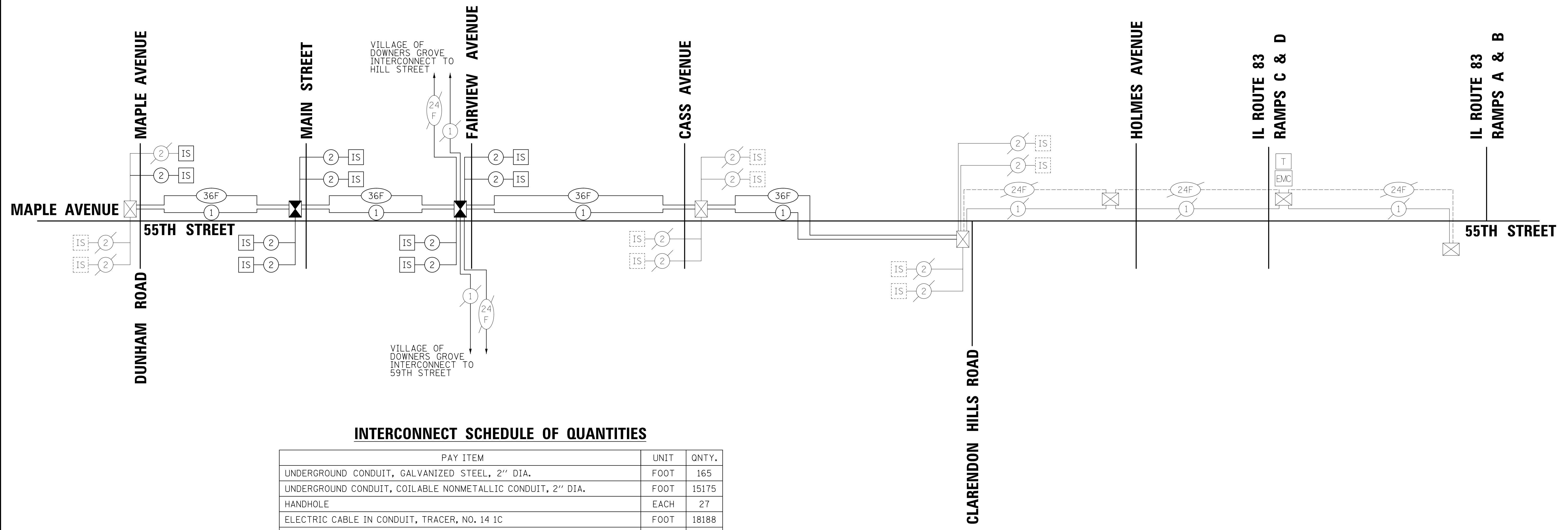
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**INTERCONNECT PLAN  
 55TH STREET**

SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	284
				CONTRACT NO. 61E06
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**INTERCONNECT SCHEDULE OF QUANTITIES**

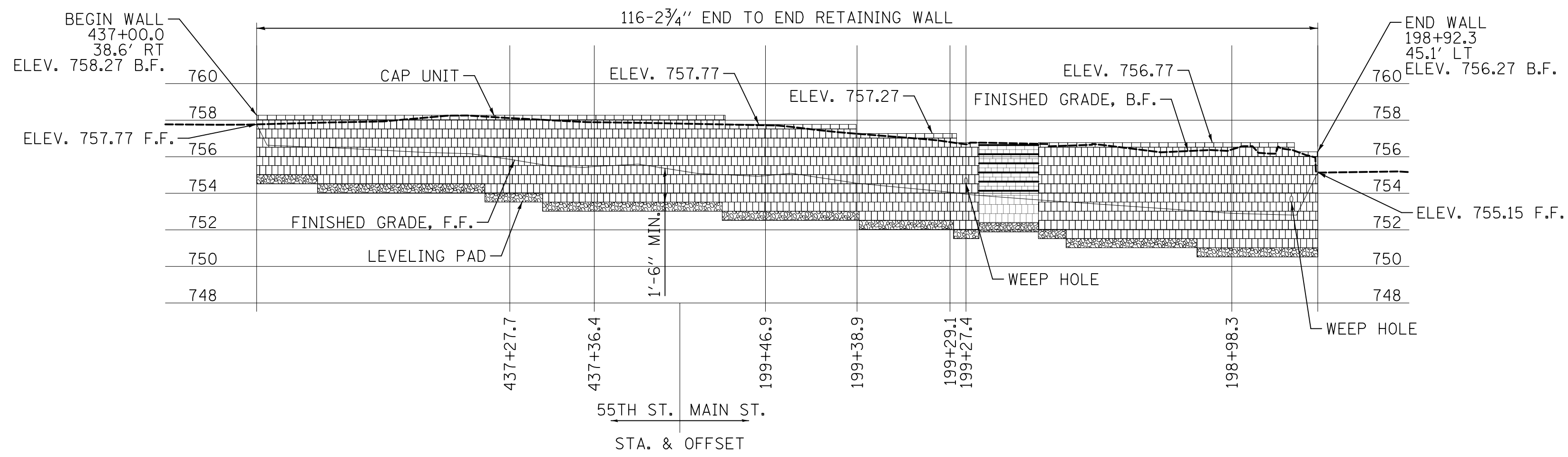
PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	165
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	15175
HANDHOLE	EACH	27
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	18188
DRILL EXISTING HANDHOLE	EACH	6
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	746
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	18280
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2 - FAIRVIEW AVENUE AT 55TH STREET - FAIRVIEW AVENUE AT 59TH STREET	EACH	2
OPTIMIZE TRAFFIC SIGNAL SYSTEM - 55TH STREET AT DUNHAM ROAD/MAPLE AVENUE - 55TH STREET AT MAIN STREET - 55TH STREET AT FAIRVIEW AVENUE - 55TH STREET AT CASS AVENUE - 55TH STREET AT CLARENDON HILLS ROAD - 55TH STREET AT HOLMES AVENUE - 55TH STREET AT IL ROUTE 83 RAMPS C&D - 55TH STREET AT IL ROUTE 83 RAMPS A&B	EACH	1

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

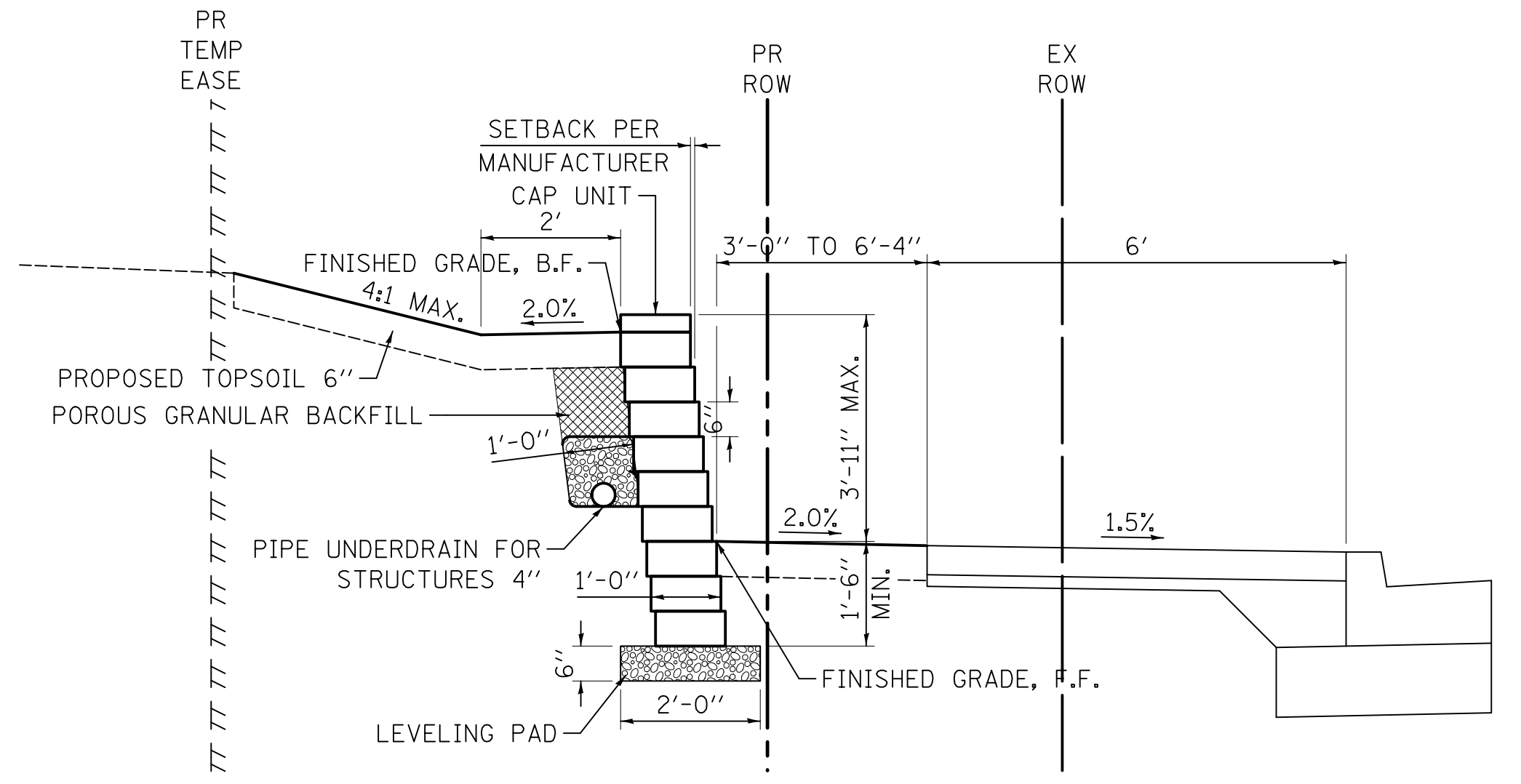
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
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NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
ADD. FILE NAME	

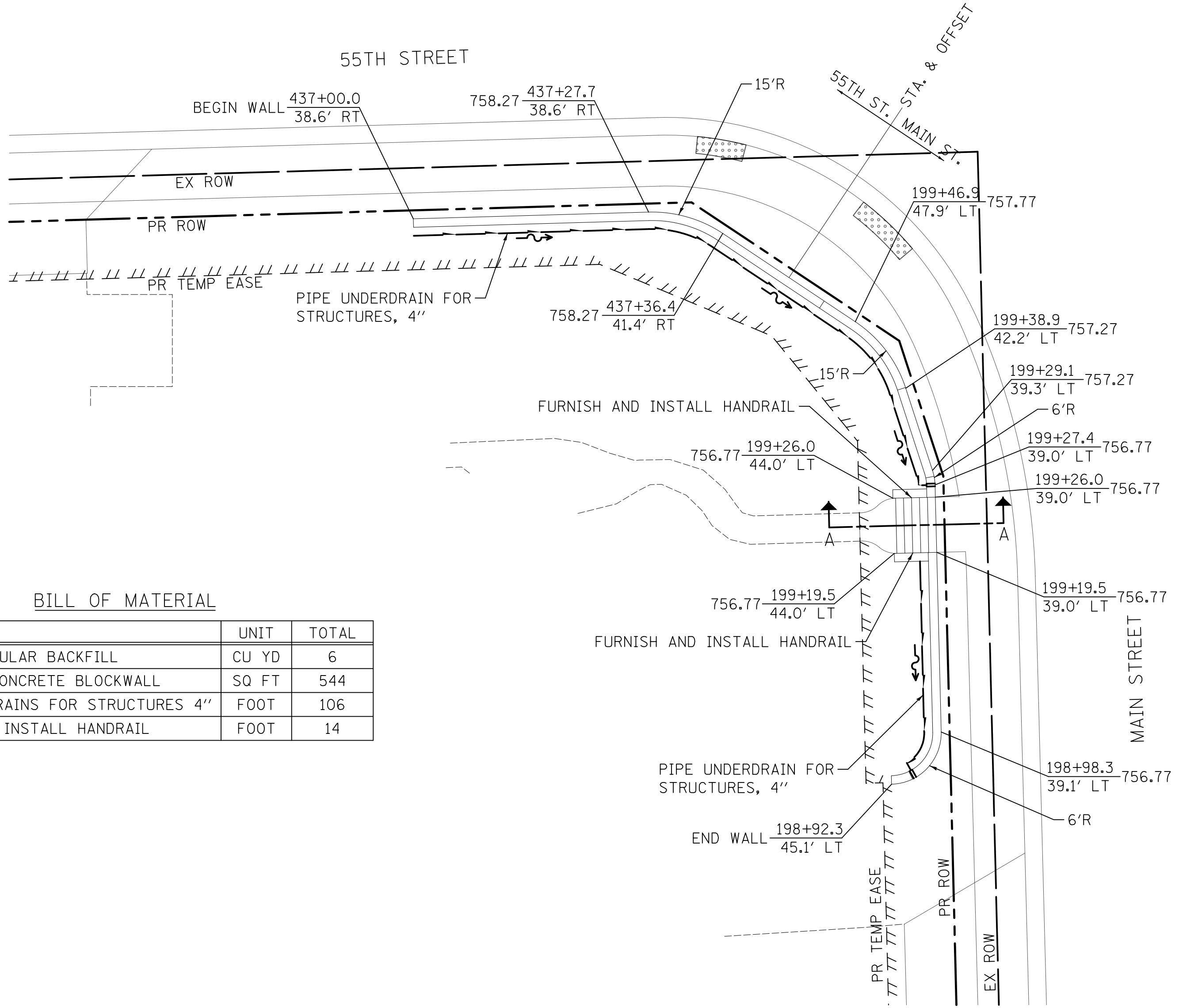
DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK	
NO.	
ADD. FILE NAME	



**ELEVATION**  
LOOKING AT BACK FACE OF WALL  
F.F. = FRONT FACE  
B.F. = BACK FACE



**TYPICAL WALL CROSS SECTION**

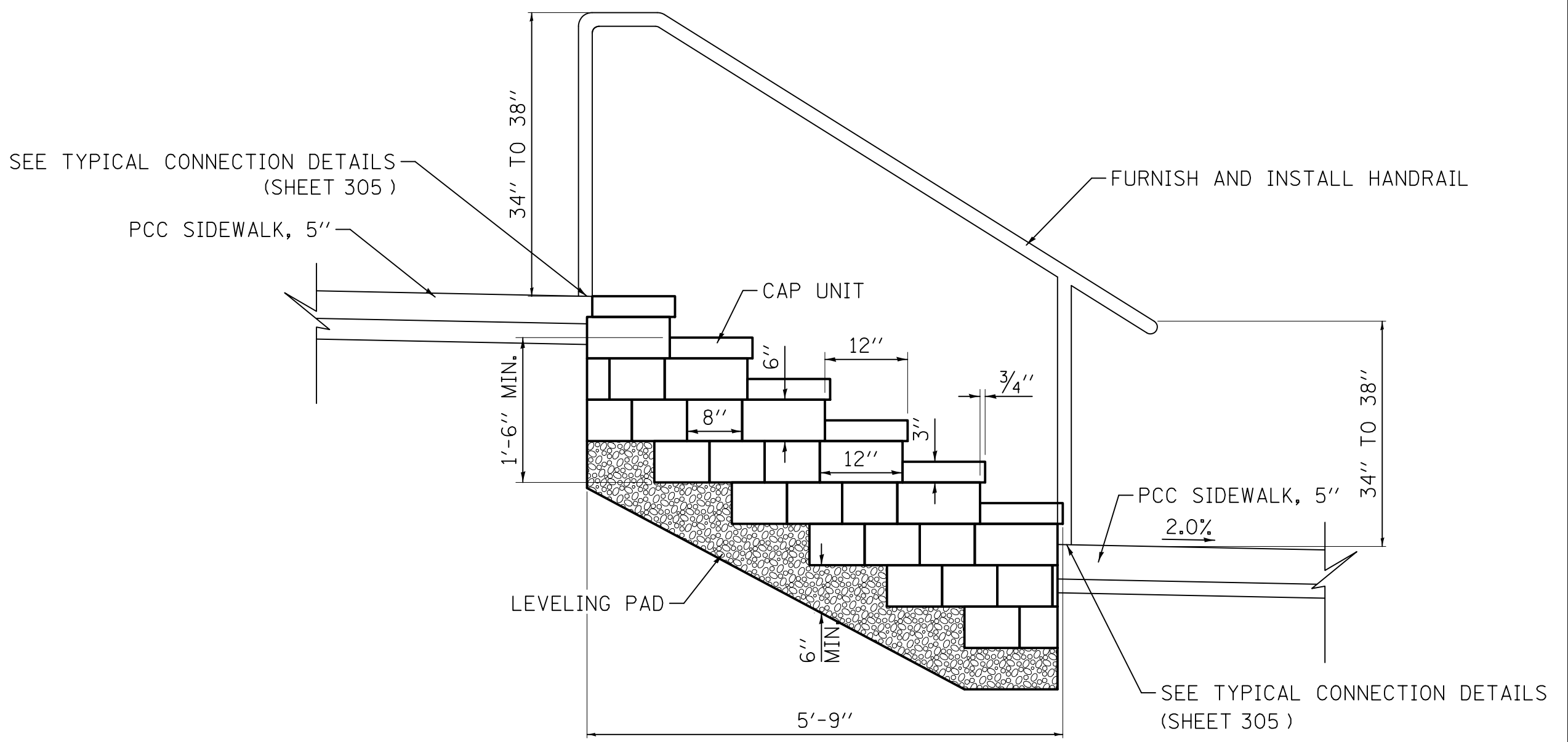


**BILL OF MATERIAL**

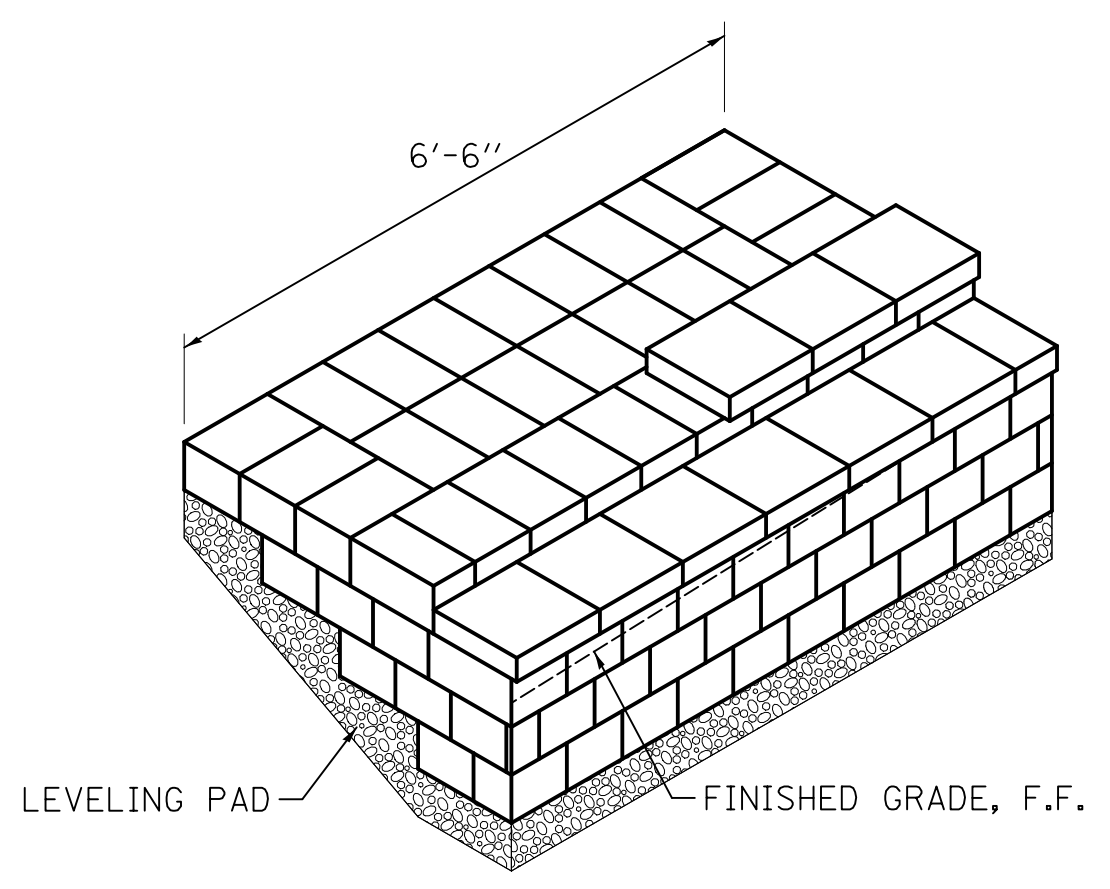
ITEM	UNIT	TOTAL
POROUS GRANULAR BACKFILL	CU YD	6
SEGMENTAL CONCRETE BLOCKWALL	SQ FT	544
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	106
FURNISH AND INSTALL HANDRAIL	FOOT	14

**PLAN**

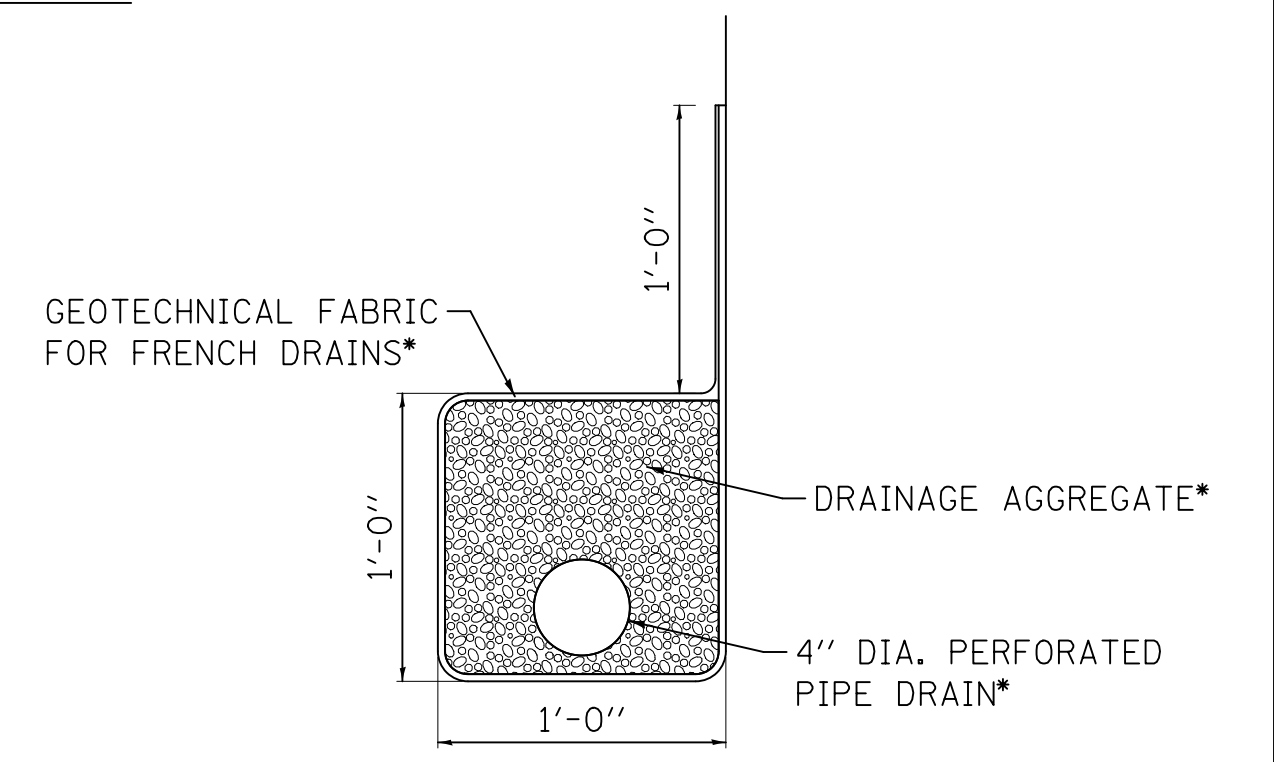
STATIONS AND OFFSETS MEASURED TO THE TOP FRONT FACE OF THE SEGMENTAL CONCRETE BLOCK WALL  
ALL ELEVATIONS SHOWN INDICATE TOP OF WALL ELEVATIONS



**SECTION A-A**



**PARTIAL STAIR CASE DETAIL**



**PIPE UNDERDRAIN DETAIL**

* INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES 4"

**Benchmark:**  
Monument bronze disk in southeast side of concrete traffic signal base,  
Sta. 437+58.40, 32.50' Rt. Elev. 756.72' (NAVD 88)

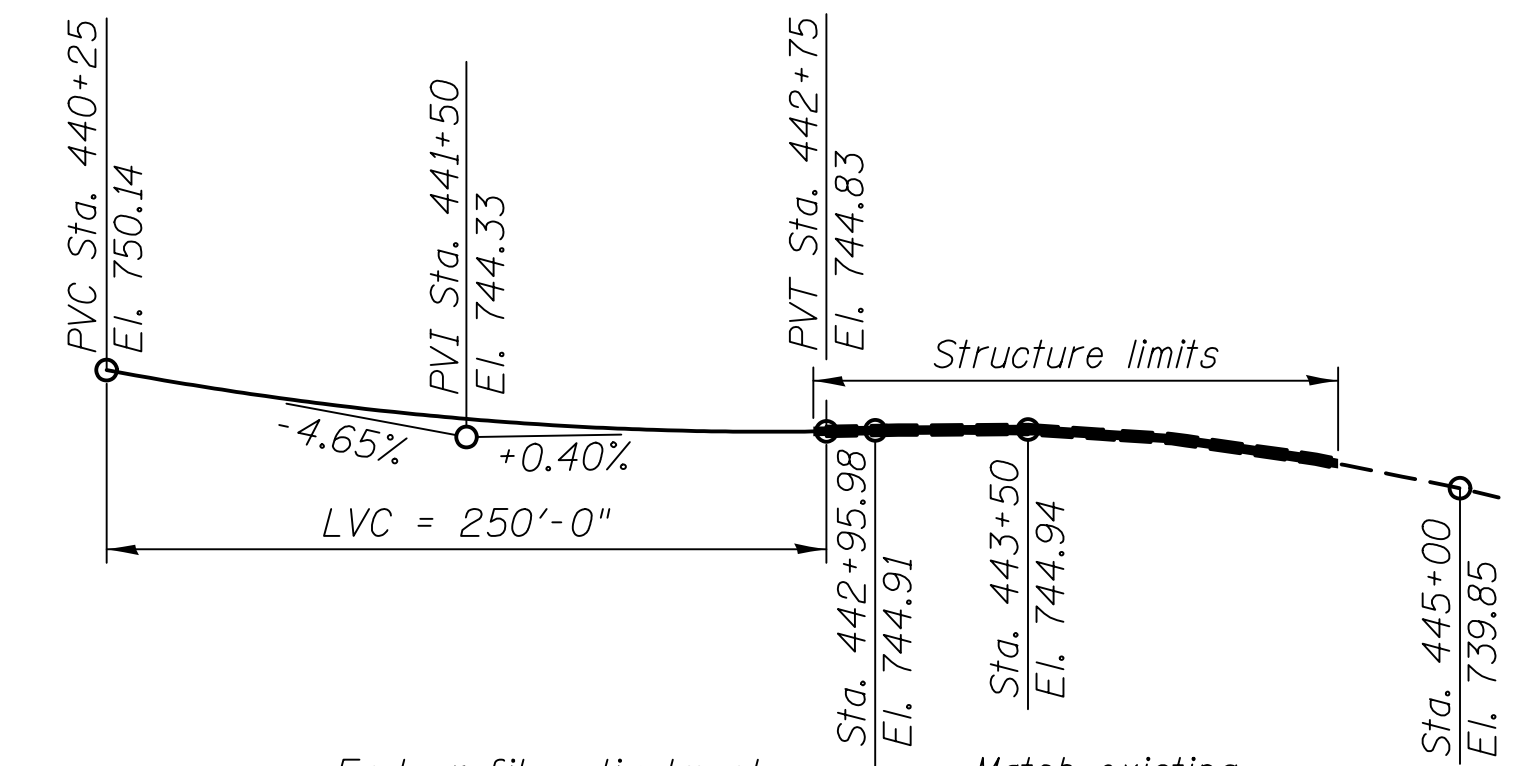
**Maintenance of Traffic:**  
Traffic will be maintained during construction.

**Existing Structure:**  
Existing CIP T-Type concrete retaining wall was originally built in 1977  
under CH Route 35, Section 77-00213-01 FP. Existing wall to be removed  
as shown in plans.

**Salvage:** None.

**INDEX OF SHEETS**

- WA1 General Plan and Elevation
- WA2 Retaining Wall Elevation I
- WA3 Retaining Wall Elevation II
- WA4 Retaining Wall Details
- WA5 Concrete Step Handrail Details
- WA6 Soil Borings
- WA7 Existing Structure Plan



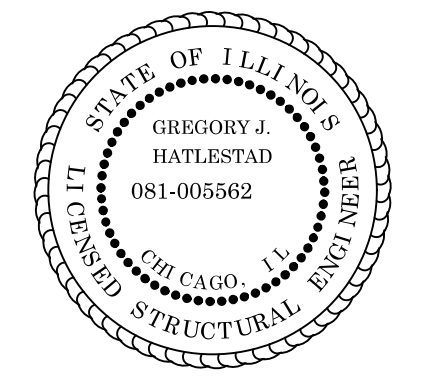
**PROFILE GRADE**  
(Along baseline 55th Street)

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD Bridge Design  
Specifications, 7th Edition with 2016 Interims

CIVILTECH ENGINEERING, INC.  
GREGORY J. HATLESTAD, S.E.

**DESIGN STRESSES**  
**FIELD UNITS**

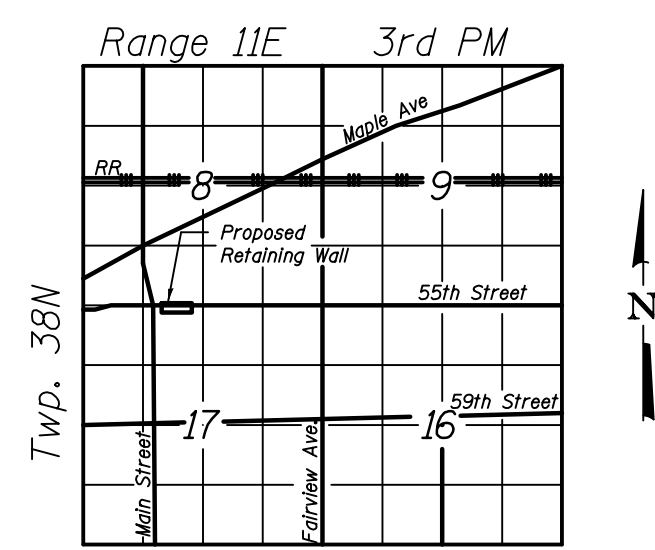
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)



*G. Hatlestad*  
GREGORY J. HATLESTAD, S.E.  
# 081-005562

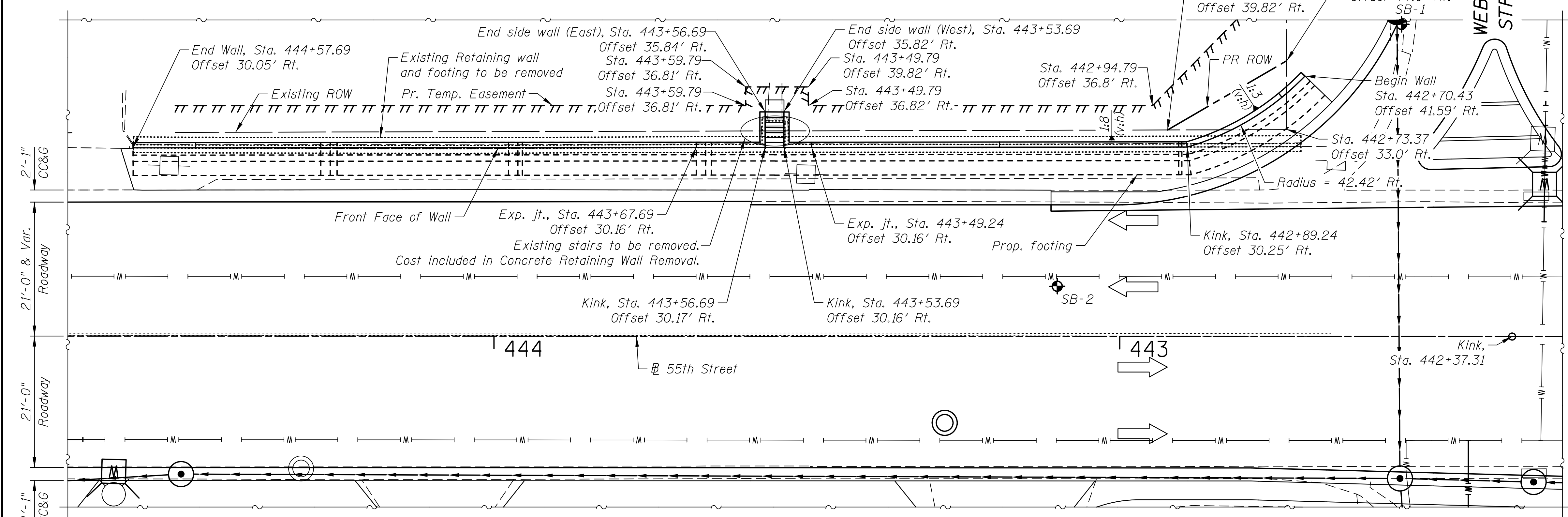
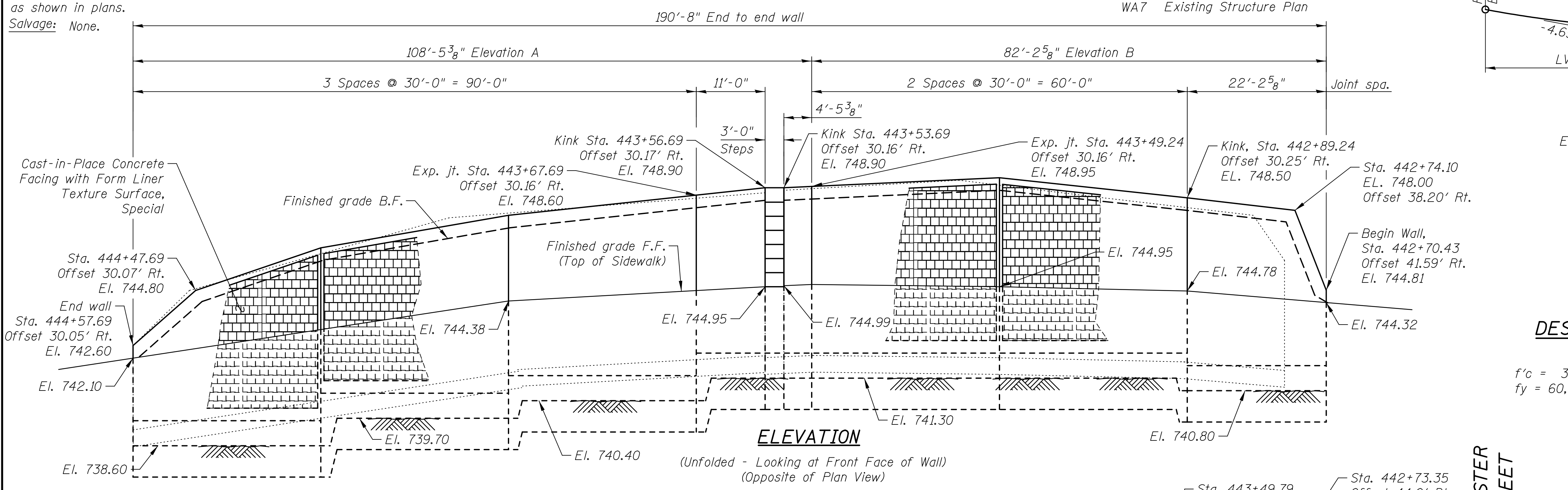
EXP 11/30/2018  
DATE 6/8/2017

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



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**WALL A; 55TH STREET F.A.U. RTE 1504**  
**SECTION 11-00302-04-CH**  
**DUPAGE COUNTY**  
**STA. 442+70.43 TO STA. 444+57.69**



**PLAN**

Offsets are measured from @ 55th St. to the front face of retaining wall.

Note:  
Coordinate wall with ADA ramp details.

**LEGEND**

- Existing Sanitary Sewer
- Existing Water Lines
- Existing Storm Sewer
- Existing Retaining Wall to be removed
- Existing Gasline
- Proposed Storm Sewer
- Soil Boring

I:\2981\cad\sheet\4-Structures\Wall A\01 Wall A.GPE.dgn  
 3:54:11 PM  
 9/25/2018

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450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DRAWN - J. SCHROEDER	REVISED -
DESIGNED - J. SCHROEDER	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - JUNE 1, 2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WALL A**  
**GENERAL PLAN & ELEVATION**  
SHEET NO. WA1 OF WA7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	287
CONTRACT NO. 61E06				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

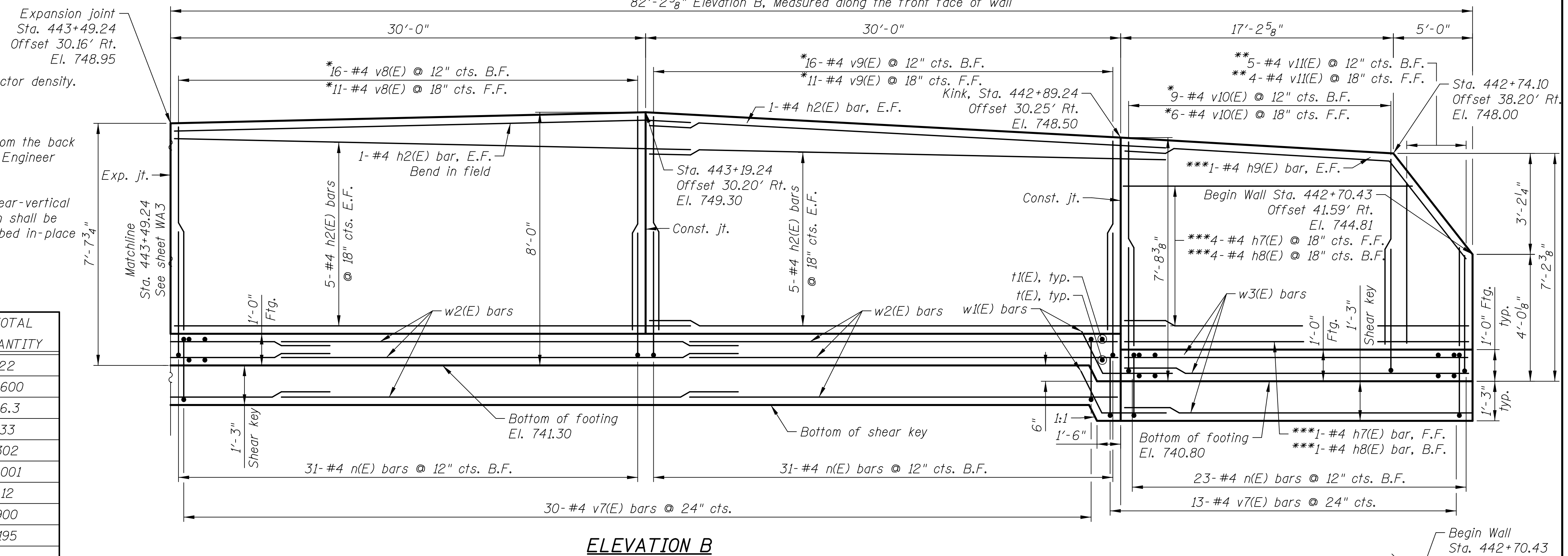
- All exposed edges shall have 3/4" Chamfer.
- All fill and backfill shall be compacted to 95% of standard proctor density.
- Reinforcement Bars designated (E) shall be Epoxy Coated.
- Compaction of soil and granular material located within 2'-0" from the back of the retaining wall shall be compacted to the satisfaction of the Engineer using a suitable mechanical hand tamper.
- The shear key excavation shall be made with care to produce near-vertical sides as shown on the plans. The footing and shear key excavation shall be cleaned of loose material and the concrete poured against undisturbed in-place soils.

**TOTAL BILL OF MATERIAL**

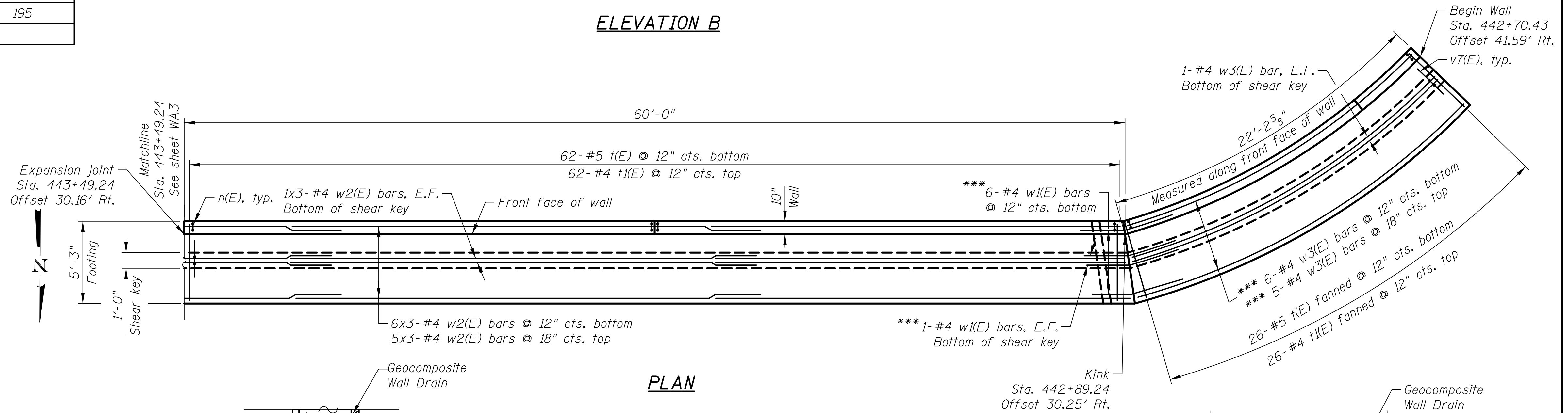
ITEM	UNIT	TOTAL QUANTITY
Porous Granular Backfill	Cu. Yd.	22
Reinforcement Bars, Epoxy Coated	Pound	7,600
Concrete Structures (Retaining Wall)	Cu. Yd.	86.3
Geocomposite Wall Drain	Sq. Yd.	33
Braced Excavation	Cu. Yd.	302
Concrete Surface Color Treatment	Sq. Ft.	1,001
Furnish and Install Handrail	Foot	12
Form Liner Textured Surface, Special	Sq. Ft.	900
Concrete Retaining Wall Removal	Foot	195

**MINIMUM BAR LAP**

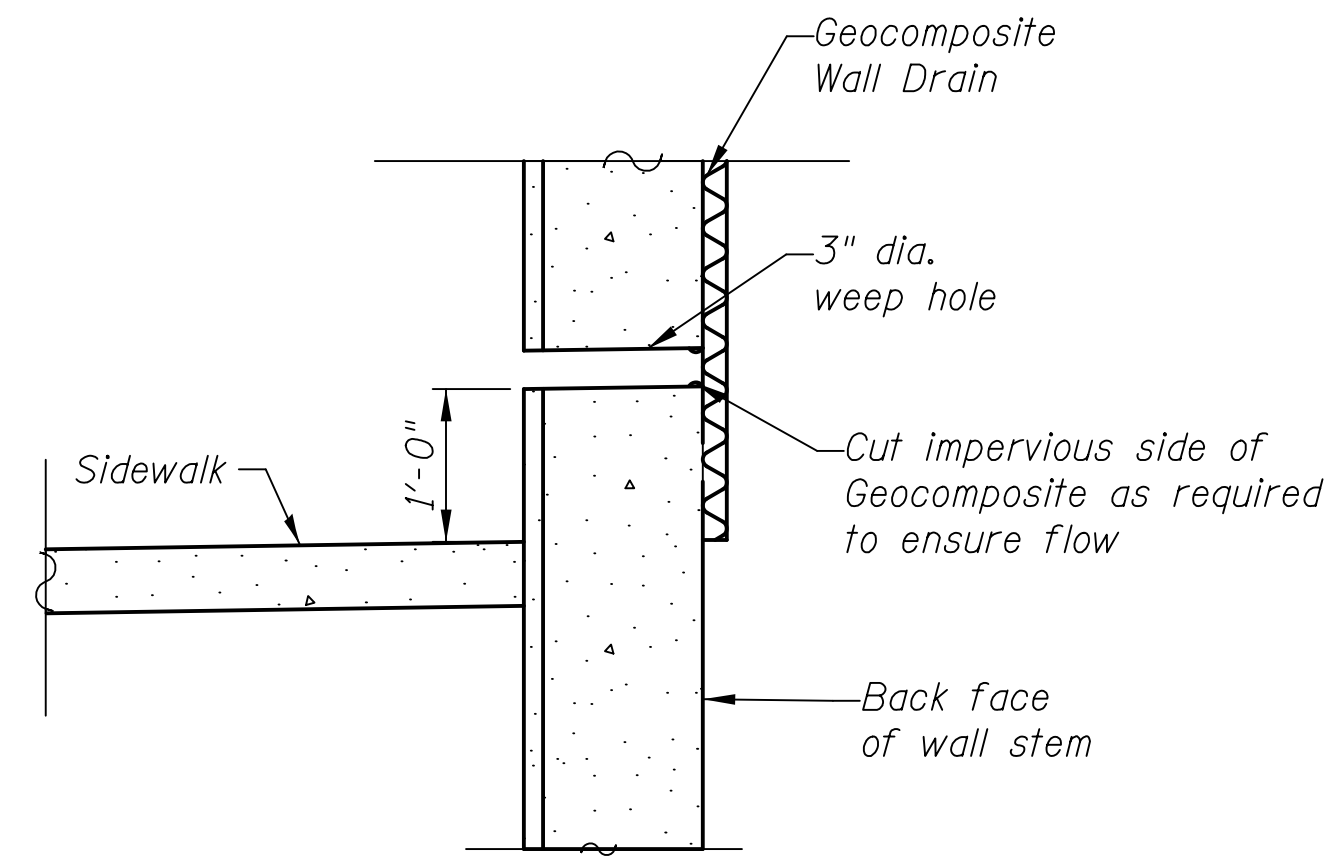
#4 bar = 2'-7"



**ELEVATION B**

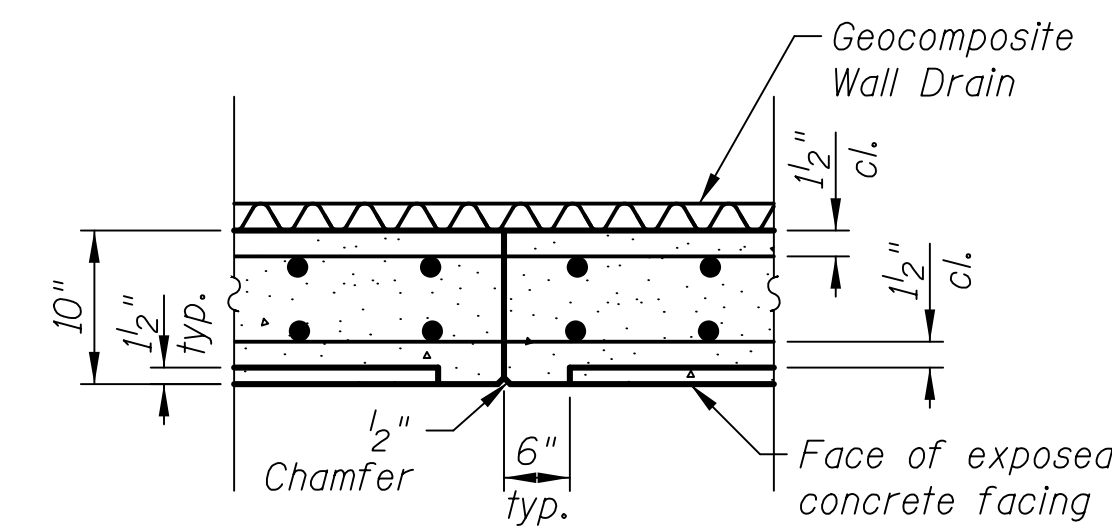


**PLAN**

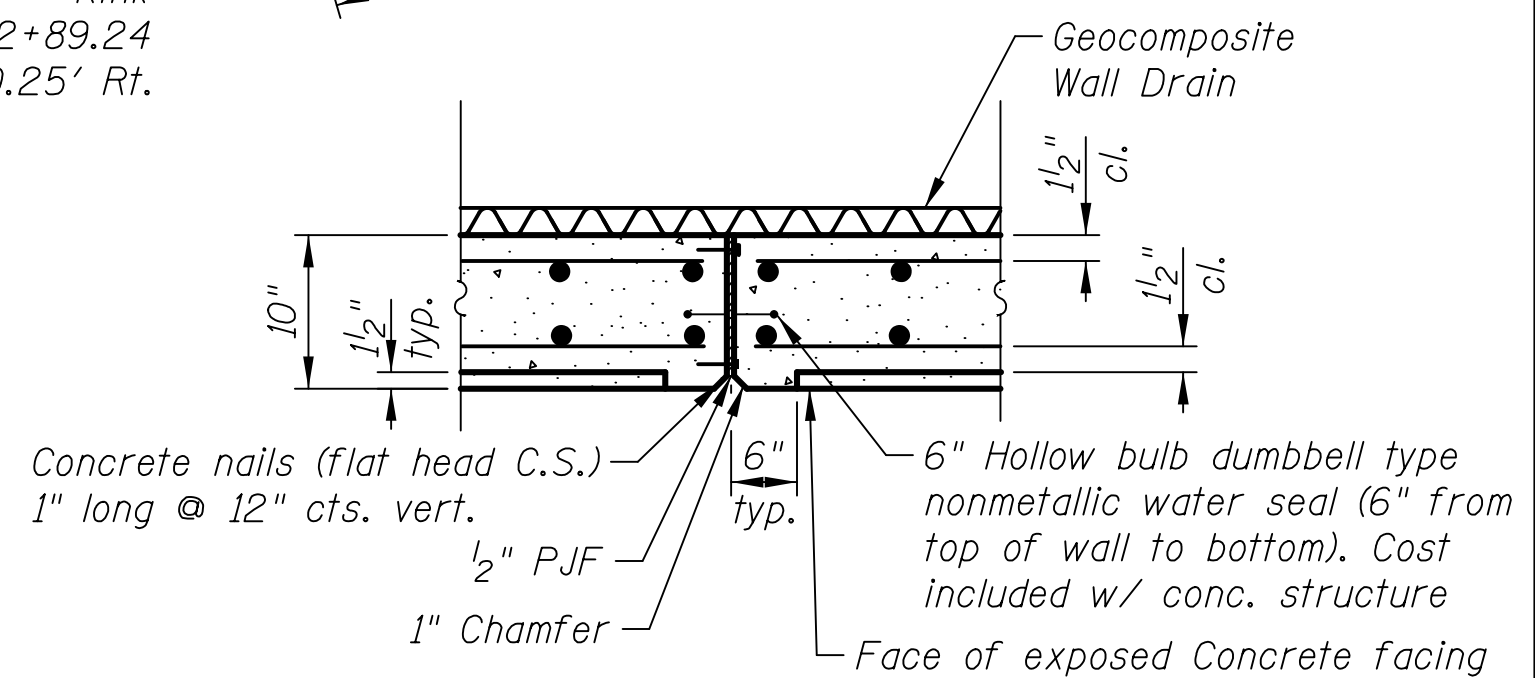


**WEEP HOLE DRAIN DETAIL**

Weep hole spacing shall be at ± 8'-0" horizontally.



**CONSTRUCTION JOINT**



**EXPANSION JOINT**

- * See Field Cutting Diagram.
- ** Trim bars as required to fit.
- *** Bend in field and trim as required to fit.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WALL A  
RETAINING WALL ELEVATION I**

SHEET NO. WA2 OF WA7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	288
			CONTRACT NO. 61E06	

ILLINOIS FED. AID PROJECT

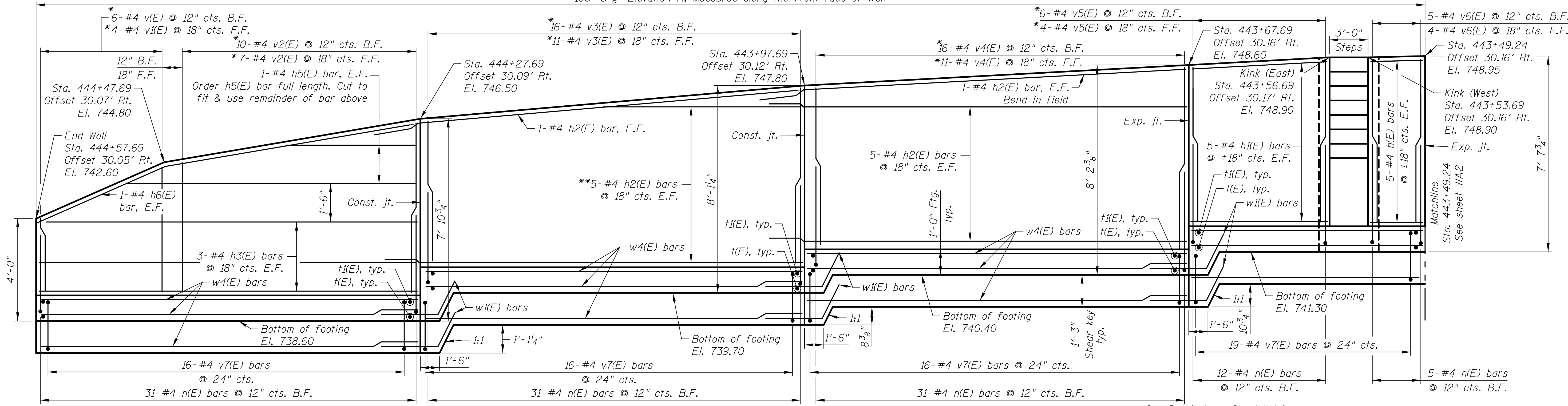
I:\2988\cad\sheet\4-Structures\Wall A\02_Wall A Elevation.dgn  
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 9/5/2018

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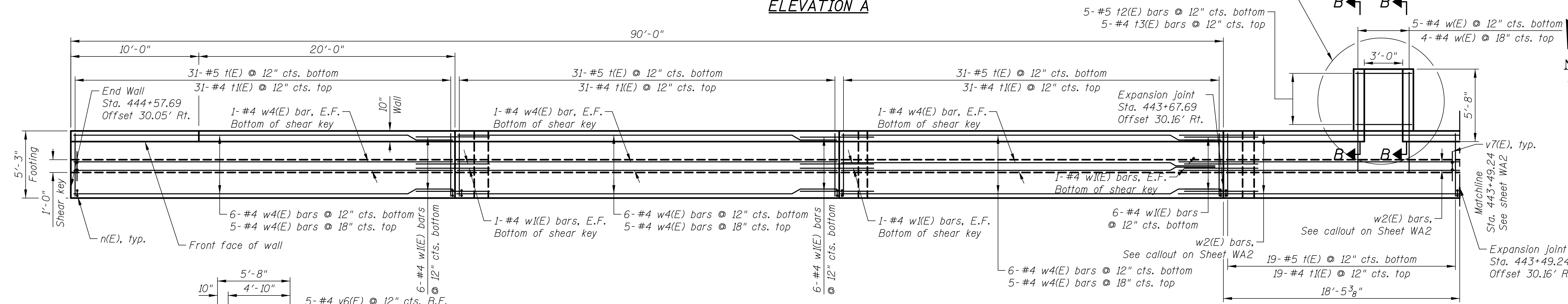
DRAWN	- J. SCHROEDER	REVISED	-
DESIGNED	- J. SCHROEDER	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- JUNE 1, 2018	REVISED	-



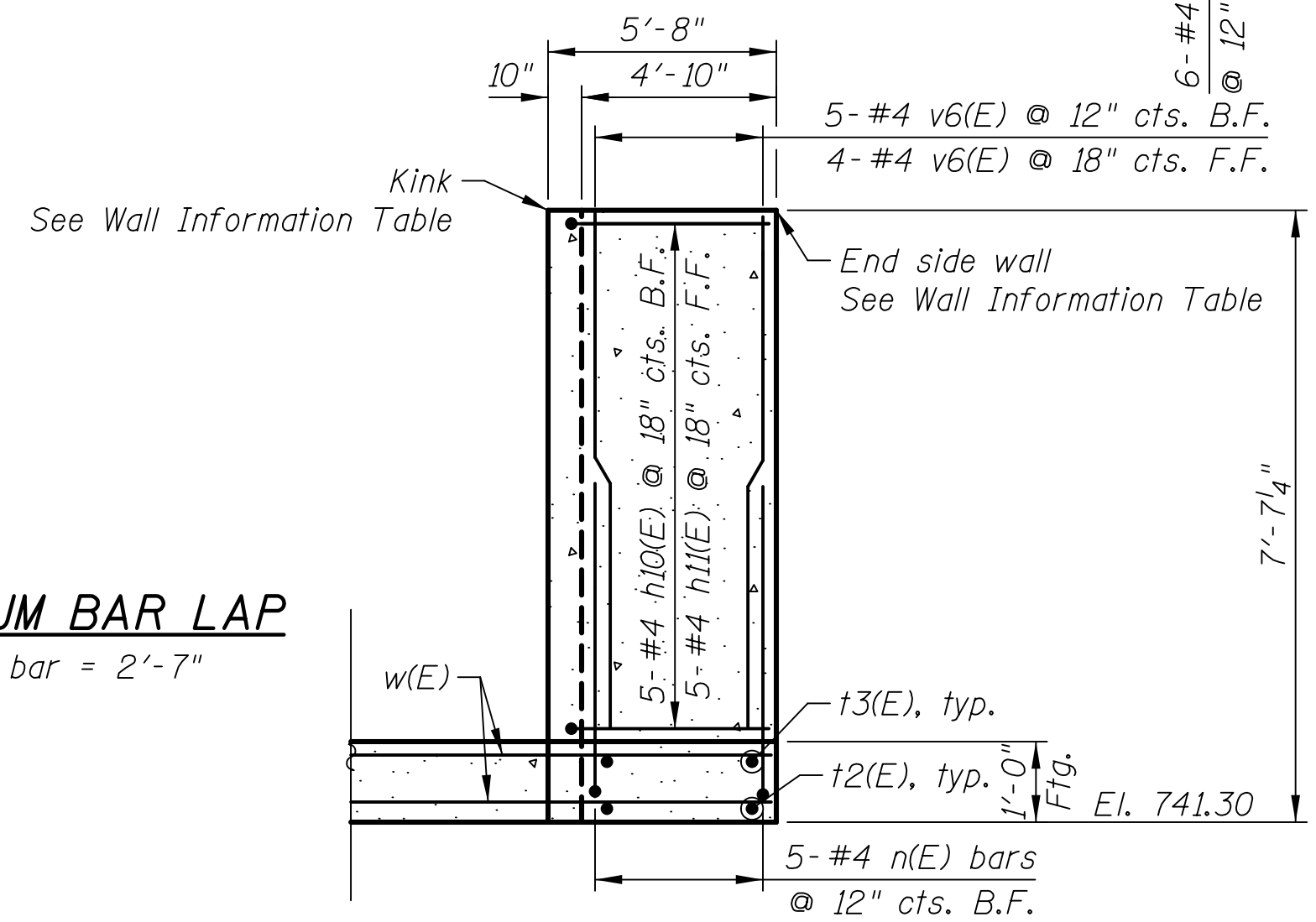
108'-5³/₈" Elevation A, Measured along the front face of wall



ELEVATION A



PLAN



SECTION B-B

**MINIMUM BAR LAP**  
#4 bar = 2'-7"

WALL INFORMATION TABLE

Location	Sta.	Offset	Elevation
Kink (East)	443+56.69	30.17 Rt.	748.90
End side wall (East)	443+56.69	35.84 Rt.	748.90
Kink (West)	443+53.69	30.16 Rt.	748.90
End side wall (West)	443+53.69	35.82 Rt.	748.90

* See Field Cutting Diagram on Sheet WA2.  
** Trim bars as required to fit.

4:\298\cad\sheet\4-Structures\Wall\03_Wall A.Elevation II.dgn  
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 9/25/2018

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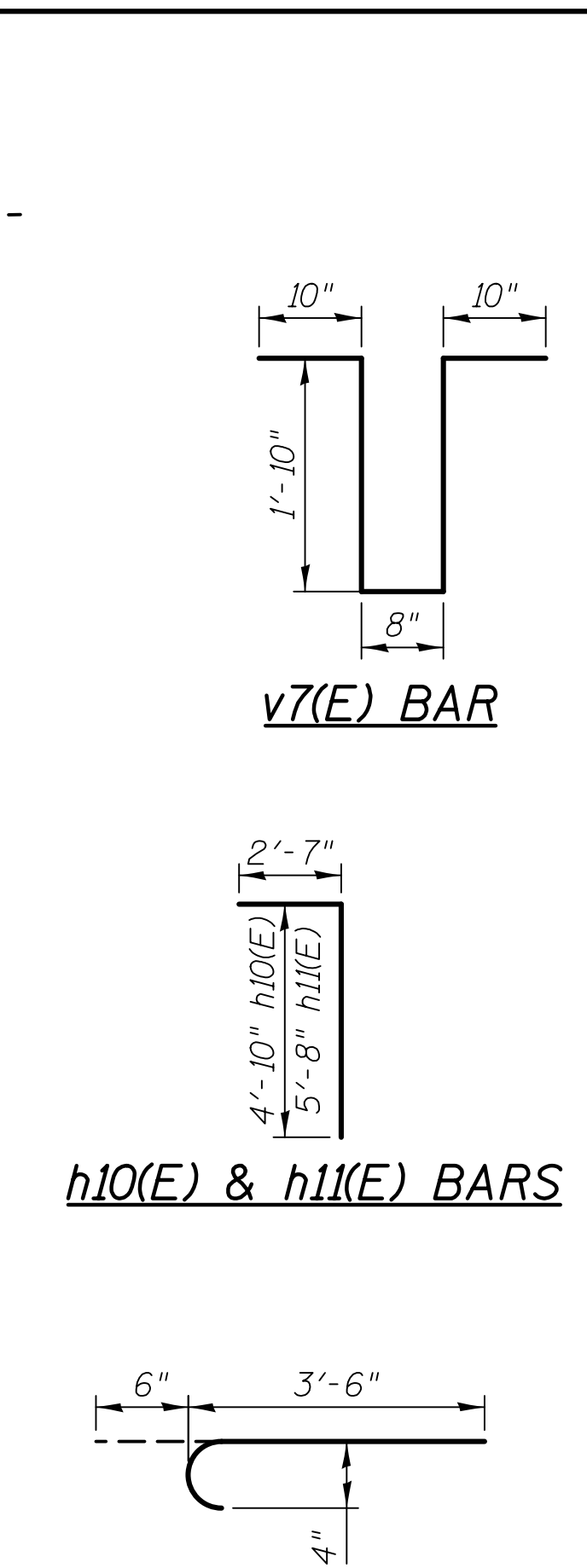
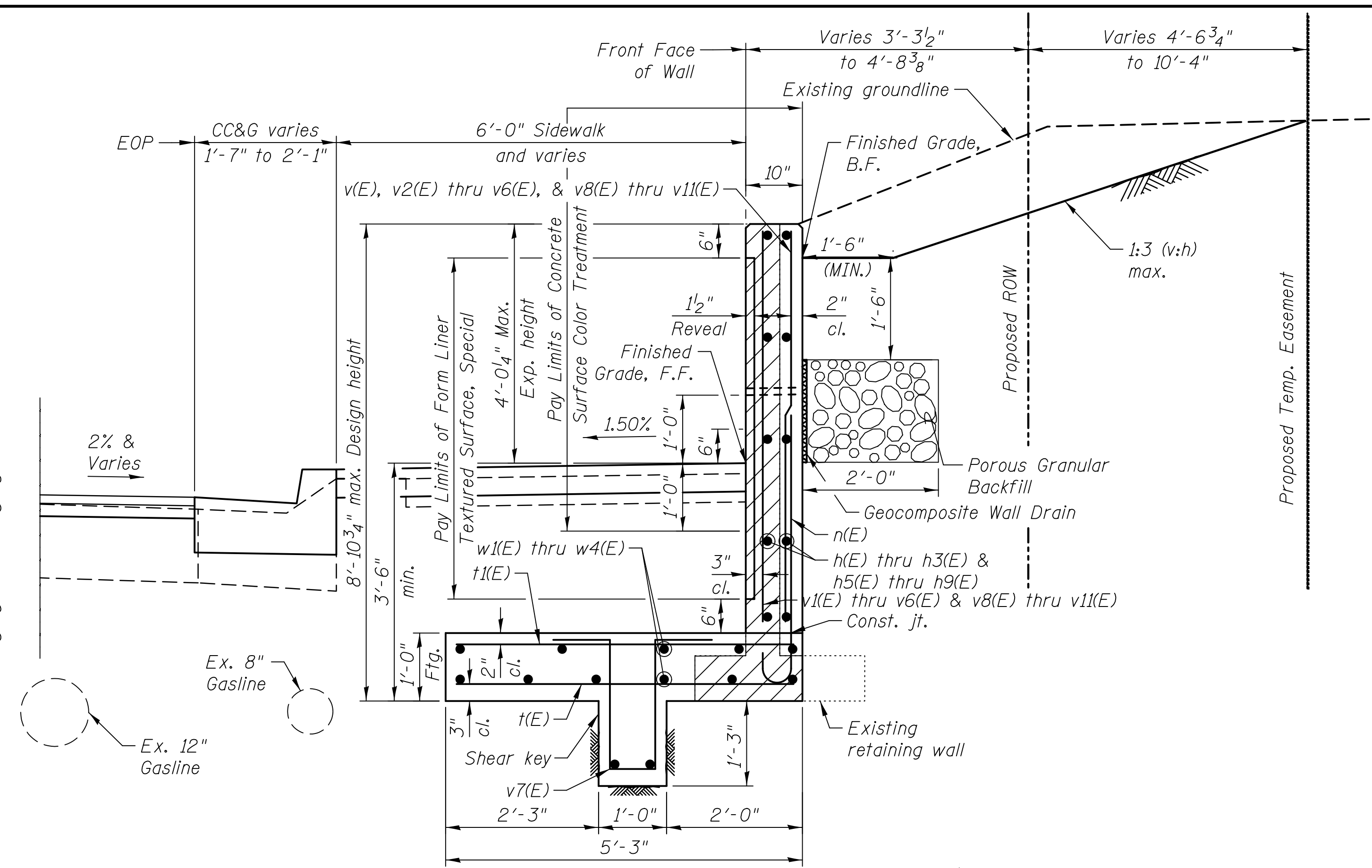
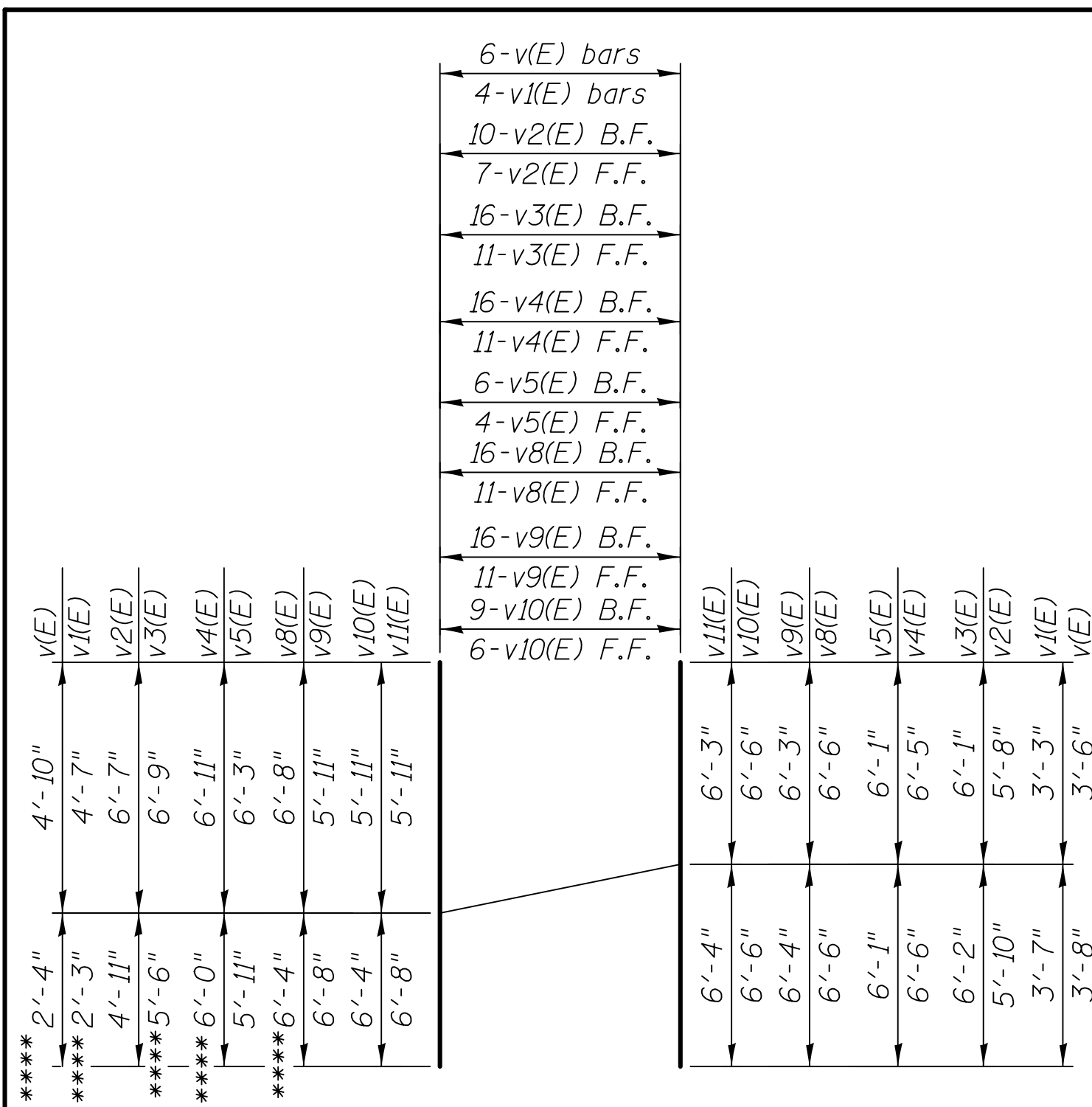
DRAWN - J. SCHROEDER	REVISED -
DESIGNED - J. SCHROEDER	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - JUNE 1, 2018	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WALL A**  
**RETAINING WALL ELEVATION II**

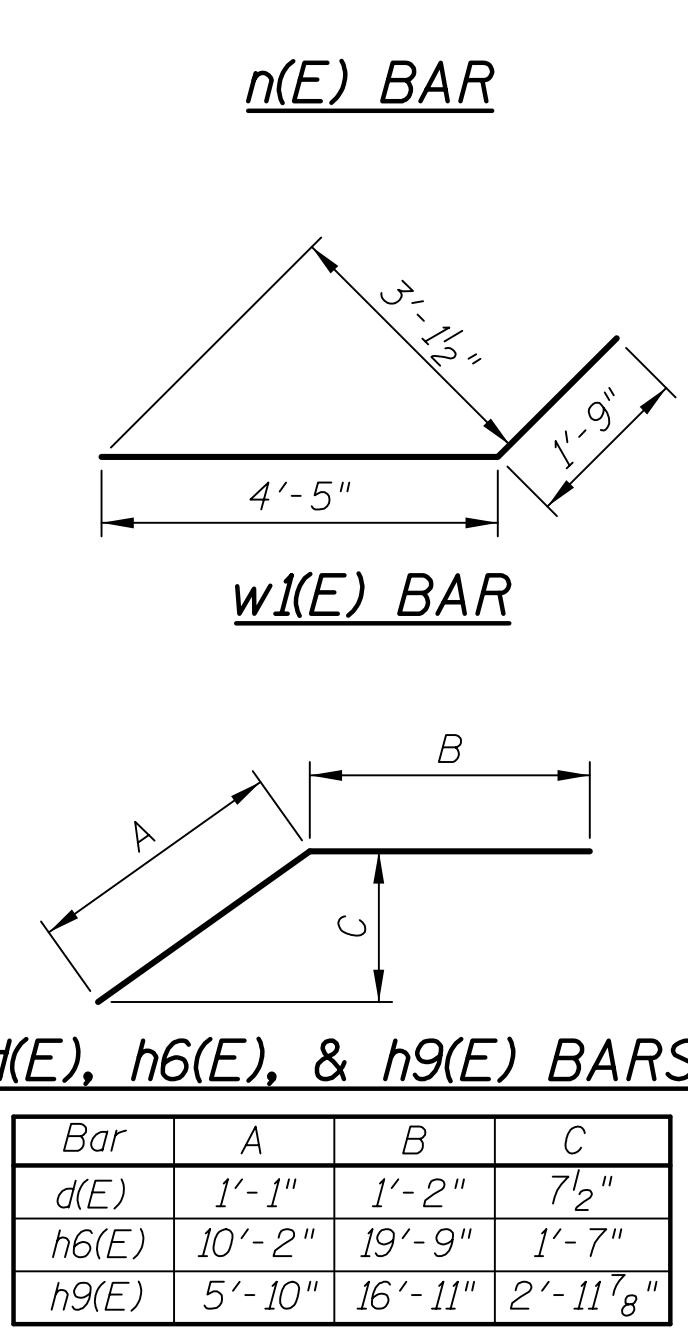
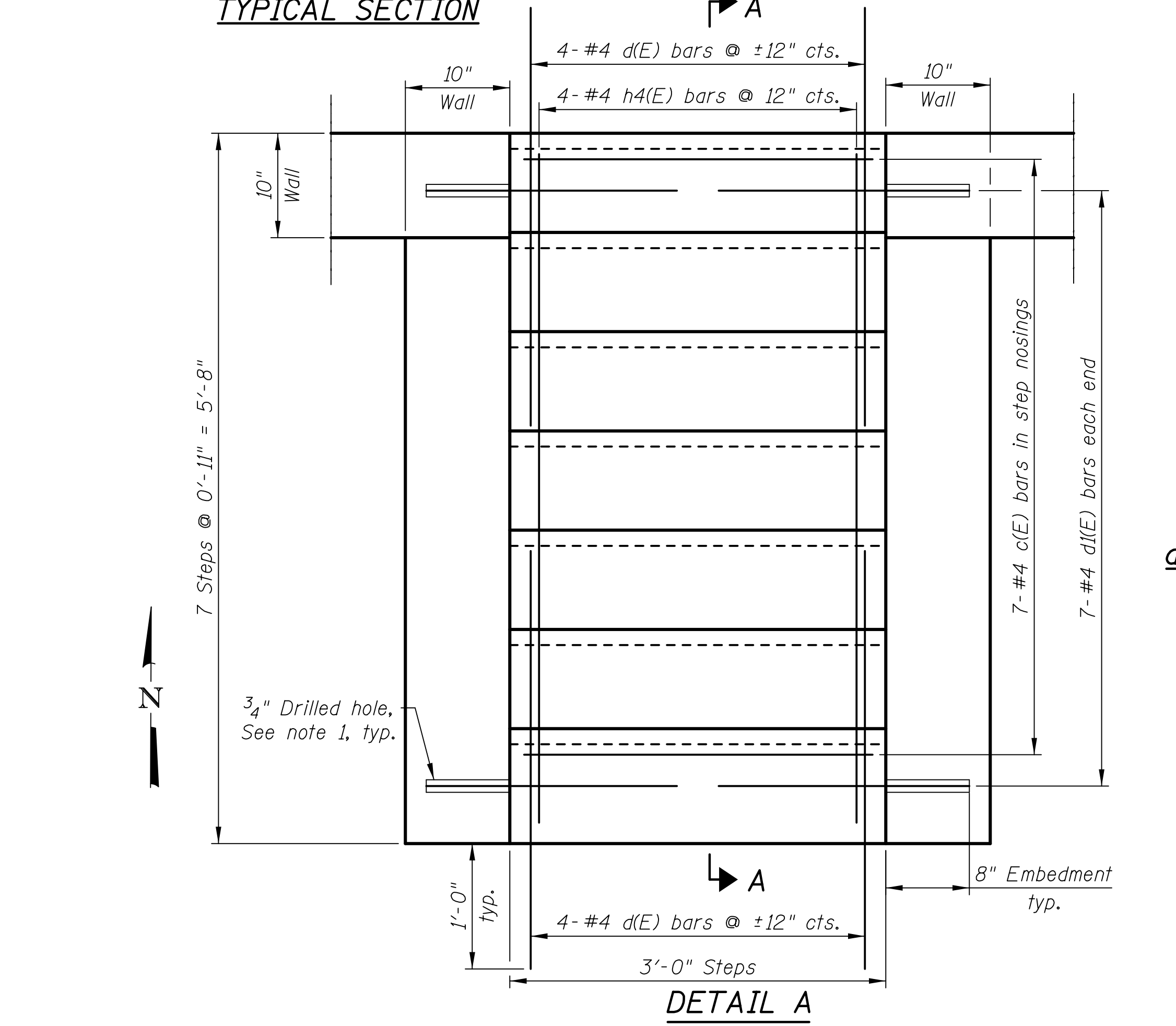
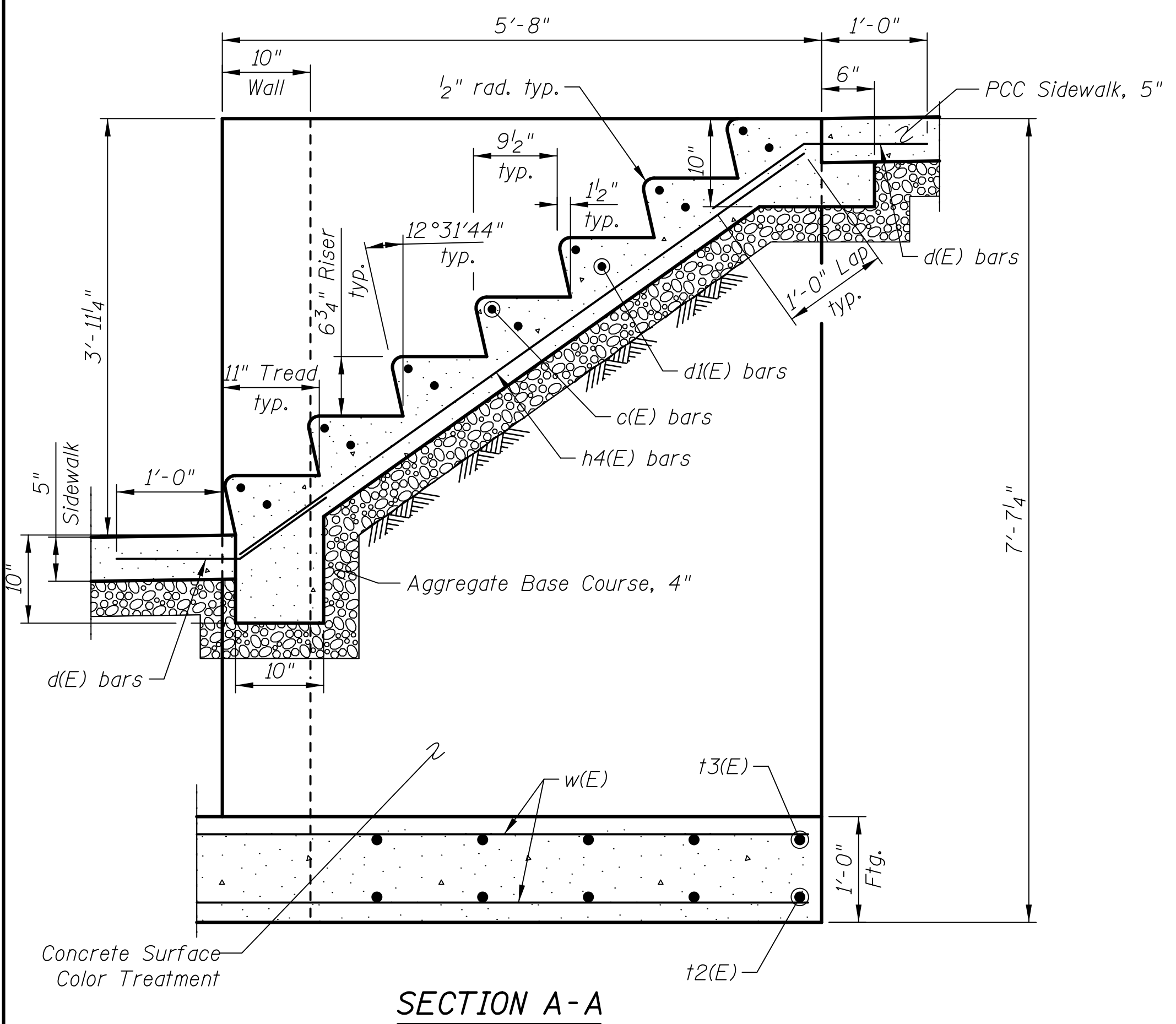
SHEET NO. WA3 OF WA7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	289
CONTRACT NO. 61E06				
ILLINOIS FED. AID PROJECT				



**REINFORCEMENT BAR LIST**

Bar	No.	Size	Length	Shape	
c(E)	7	#4	2'-8"		
d(E)	8	#4	2'-3"		
d1(E)	14	#4	2'-0"		
h(E)	10	#4	4'-1"		
h1(E)	10	#4	10'-8"		
h2(E)	48	#4	32'-7"		
h3(E)	6	#4	29'-8"		
h4(E)	4	#4	6'-6"		
h5(E)	2	#4	33'-4"		
h6(E)	2	#4	29'-11"		
h7(E)	5	#4	21'-9"		
h8(E)	5	#4	21'-5"		
h9(E)	2	#4	22'-9"		
h10(E)	10	#4	7'-5"		
h11(E)	10	#4	8'-3"		
n(E)	205	#4	4'-0"		
t(E)	200	#5	4'-11"		
t1(E)	200	#4	4'-11"		
t2(E)	5	#5	4'-4"		
t3(E)	5	#4	4'-4"		
v(E)	6	#4	7'-2"		
v1(E)	4	#4	6'-10"		
v2(E)	17	#4	11'-6"		
v3(E)	27	#4	12'-3"		
v4(E)	27	#4	12'-11"		
v5(E)	10	#4	12'-2"		
v6(E)	27	#4	6'-3"		
v7(E)	110	#4	4'-2"		
v8(E)	27	#4	13'-0"		
v9(E)	27	#4	12'-7"		
v10(E)	15	#4	12'-3"		
v11(E)	9	#4	5'-3"		
w(E)	9	#4	7'-5"		
w1(E)	32	#4	6'-2"		
w2(E)	39	#4	28'-0"		
w3(E)	13	#4	24'-8"		
w4(E)	39	#4	29'-8"		
Item				Unit	Quantity
Reinforcement Bars, Epoxy Coated				Pound	7,600



Notes:  
1. Drill and grout d(E) and d1(E) bars into hardened concrete according to Article 584.03 of the Standard Specifications.

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DESIGNED	- J. SCHROEDER	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- JUNE 1, 2018	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

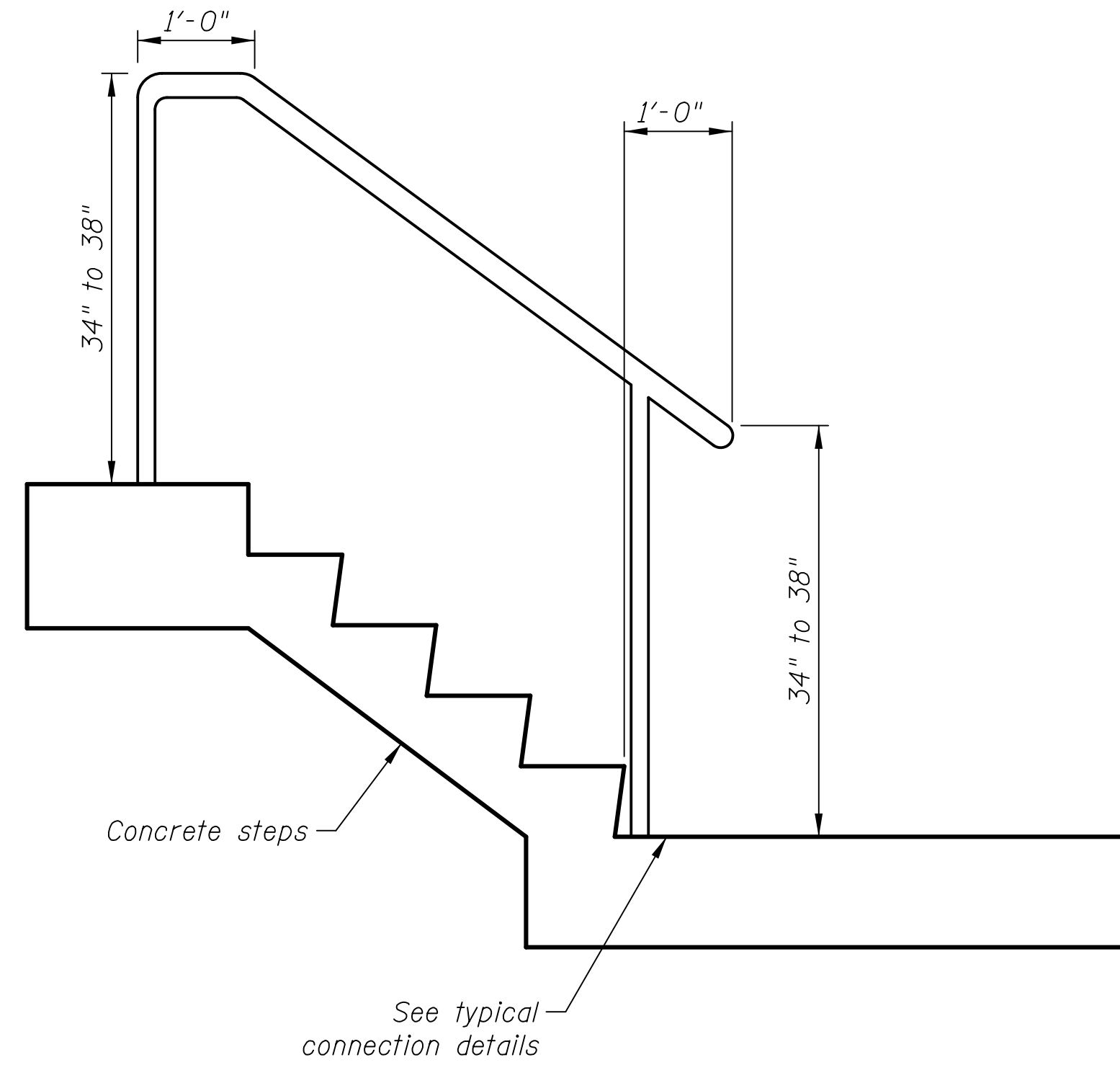
**WALL A**  
**RETAINING WALL DETAILS**

SHEET NO. WA4 OF WA7 SHEETS

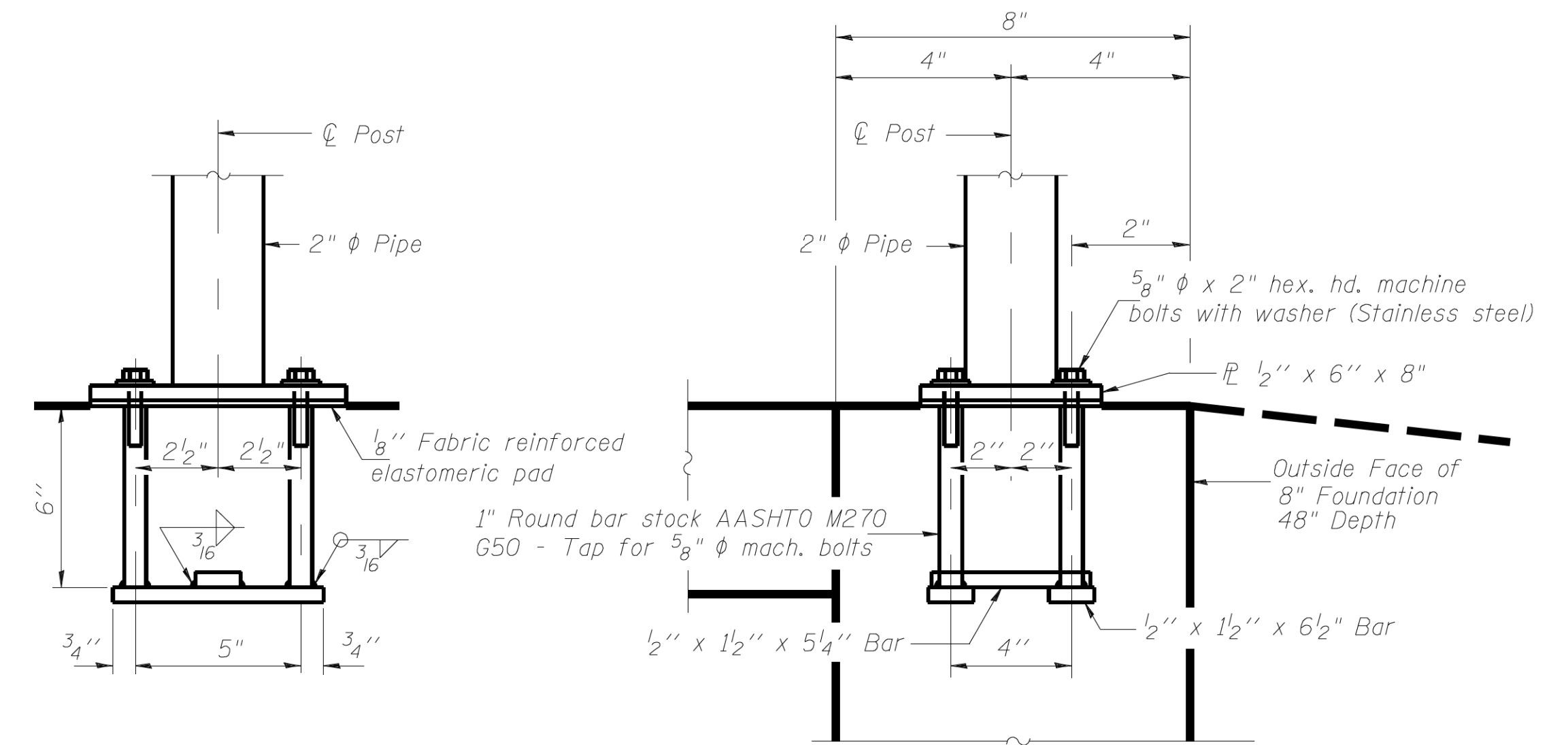
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	290
CONTRACT NO. 61E06				

ILLINOIS FED. AID PROJECT

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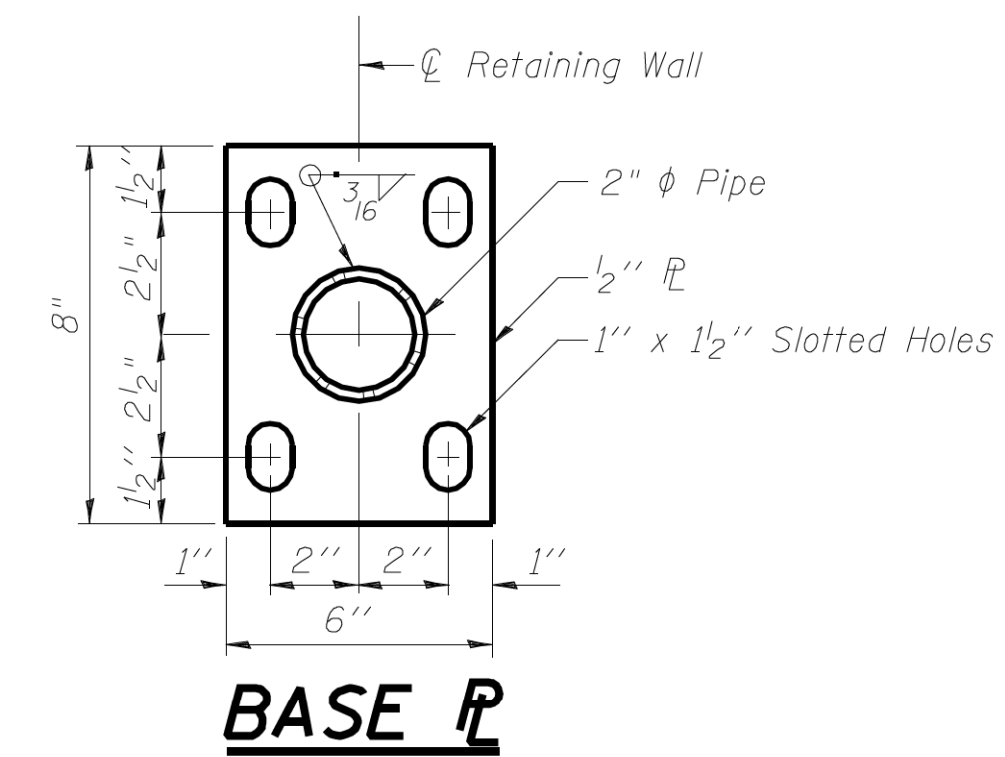


**CONCRETE STEP HANDRAIL**



**ANCHOR BOLT DETAILS**

*In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8"  $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.*



**TYPICAL CONNECTION DETAILS**



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CHECKED	- G. HATLESTAD	REVISED	-
DATE	- JUNE 1, 2018	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WALL A**  
**CONCRETE STEP HANDRAIL DETAILS**

SHEET NO. WA5 OF WA7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	291
CONTRACT NO. 61E06				
ILLINOIS FED. AID PROJECT				

MSET PROJECT NO.: 15503		LOG OF BORING NO. SB-1		Page 1 of 1					
PROJECT: 55th Street Improvements			SITE LOCATION: DuPage County, Illinois						
BORING LOCATION: Station 442+55, 50'R			CLIENT: Civiltech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%		Dry Unit Weight, pcf
0		Black CLAY, A-7-6 Topsoil (10")	745.0						
2.5		Brown & Grey Silty Clay LOAM, A-6 very stiff to hard	744.2	SS	1	8	16	111	3.88
5				SS	2	13	15	112	5.55
7.5				SS	3	19	16		4.5+ Qp
10		to Brown Grey	736.0	SS	4	20	17	104	5.98
12.5		Brown Grey to Grey to Grey CLAY, A-6 hard	734.5	SS	5	11	10	124	4.5+ Qp
15				SS	6	20	11	123	5.28
15		End of Boring at 15 Feet	730.0						

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: None  
 IMMEDIATELY AFTER DRILLING: Dry  
 DELAYED READING AFTER



BORING STARTED: 6/15/16  
 BORING COMPLETED: 6/15/16  
 LOGGED BY: MP  
 BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 558 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 15503		LOG OF BORING NO. SB-2		Page 1 of 1					
PROJECT: 55th Street Improvements			SITE LOCATION: DuPage County, Illinois						
BORING LOCATION: Station 443+10, 8'R			CLIENT: Civiltech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%		Dry Unit Weight, pcf
0		Pavement: 12" HMA over 6"GBC	745.0						
2.5		Grey SAND, A-3 (Screenings)	743.5	SS	1	7	5		
5				SS	2	2	6		
7.5				SS	3	1	12		
10		Grey CLAY, A-6 very stiff to stiff	737.0	SS	4	10	16	113	2.41
12.5				SS	5	11	19	105	2.72
15				SS	6	9	20	103	1.71
15		End of Boring at 15 Feet	730.0						

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: 6.0'  
 IMMEDIATELY AFTER DRILLING: 6.0'  
 DELAYED READING AFTER Completion: Caved

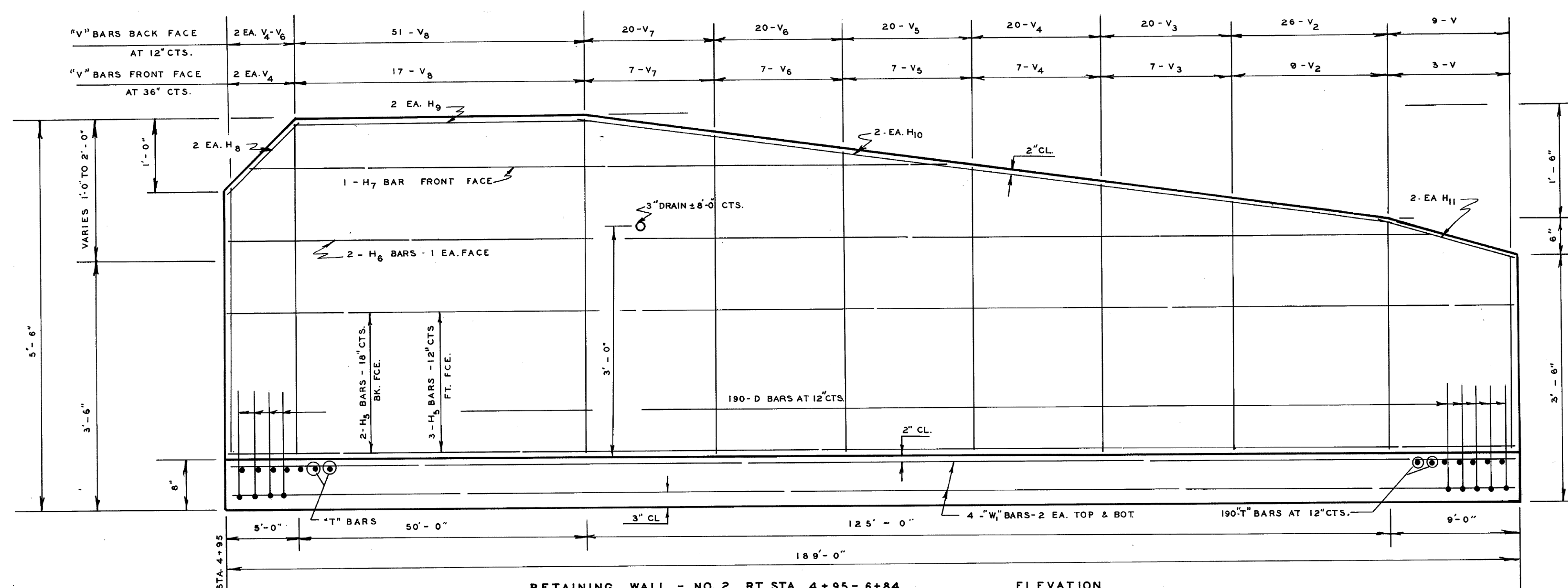
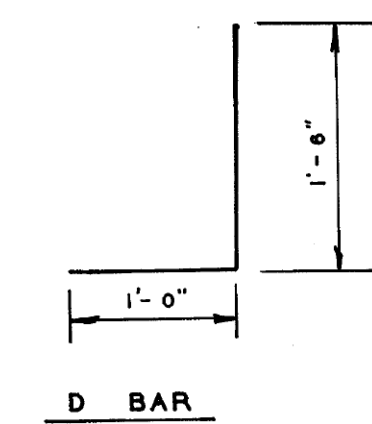
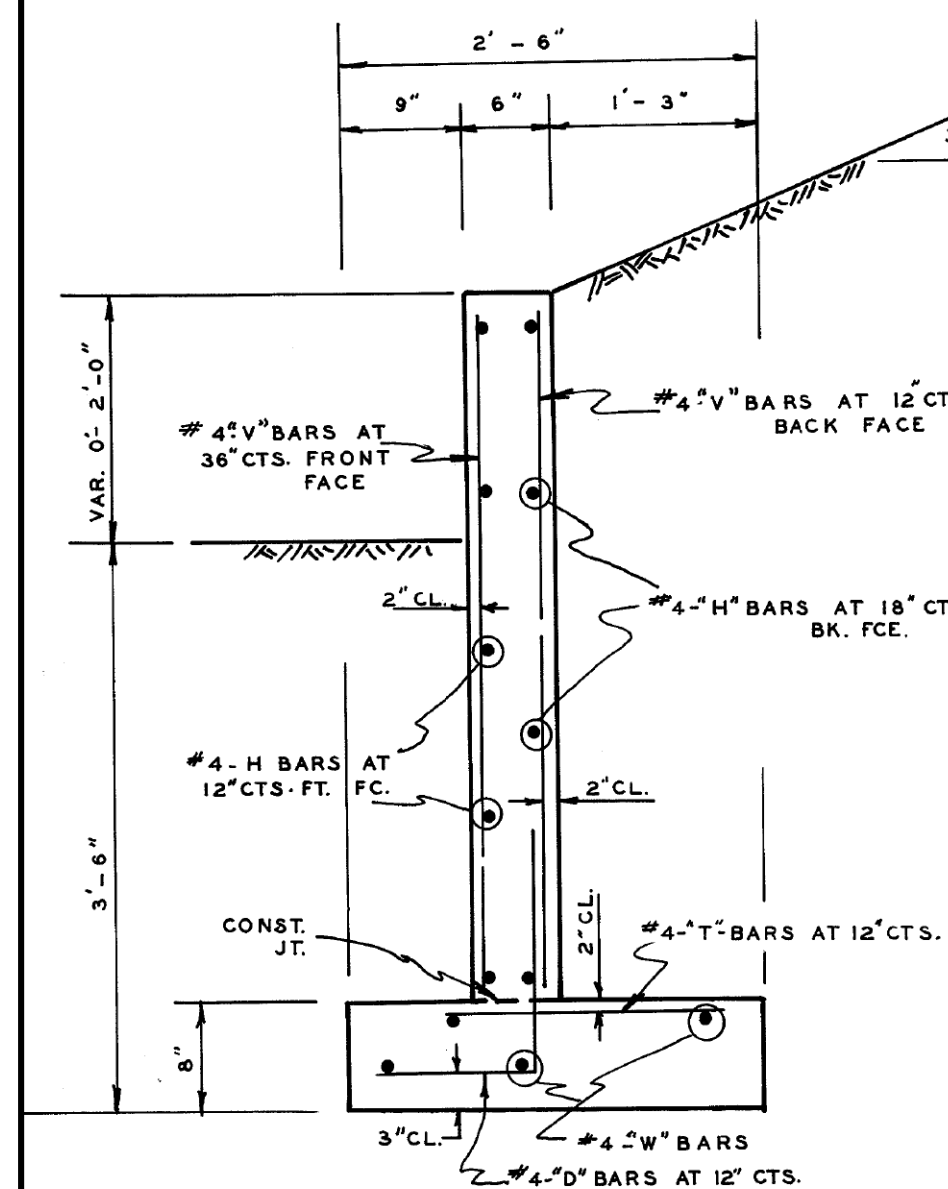
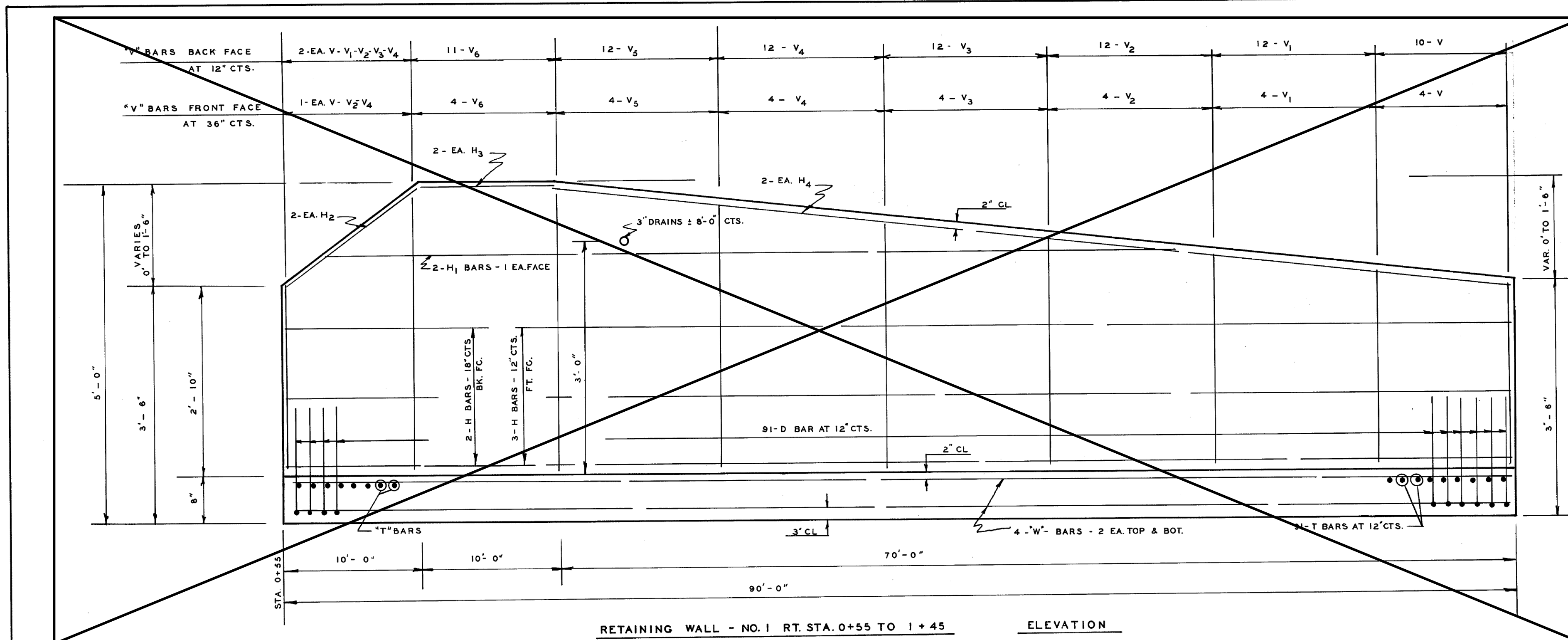


BORING STARTED: 6/15/16  
 BORING COMPLETED: 6/15/16  
 LOGGED BY: MP  
 BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 558 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 f(847) 844-3875

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COUNTY	FISCAL YEAR	TOTAL SHEETS	SHEET NO
35	1977	15	4
SEC. 77-00213-01 FP DUPAGE COUNTY			



**BILL OF MATERIAL**

BAR	SIZE	LENGTH	NO. OF BARS	
			STR.#1	STR.#2
V	#4	2'-6"	17	12
V1	#4	2'-9"	18	-
V2	#4	3'-0"	19	35
V3	#4	3'-3"	18	27
V4	#4	3'-6"	19	31
V5	#4	3'-9"	16	27
V6	#4	4'-0"	15	29
V7	#4	4'-3"	-	27
V8	#4	4'-6"	-	68
H	#4	89'-6"	5	-
H1	#4	60'-0"	2	-
H2	#4	13'-6"	2	-
H3	#4	9'-6"	2	-
H4	#4	69'-6"	2	-
H5	#4	188'-0"	-	5
H6	#4	185'-0"	-	2
H7	#4	95'-0"	-	1
H8	#4	5'-0"	-	2
H9	#4	50'-0"	-	2
H10	#4	125'-0"	-	2
H11	#4	9'-0"	-	2
D	#4	2'-6"	91	190
T	#4	2'-0"	91	190
W	#4	89'-6"	4	-
W1	#4	188'-6"	-	4
CLASS X CONCRETE	CU. YD.		11.7	26.6
REINFORCEMENT BARS	LBS.		1279	2915

F_s = 20,000 P.S.I.  
 F_c = 1,200 P.S.I.  
 V = 75 P.S.I.  
 U = 200 P.S.I.  
 N = 10  
 Q_A = 2 K.S.F.

**GENERAL NOTES**

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS. CLASS X CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4". FOR BACKFILLING AND EMBANKMENT SEE STD SPEC'S. ALL BARS SHALL BE LAPPED 24 DIA.

SEC. 77-00213-01 FP C. H. 35 55 TH. ST.

FOR INFORMATION ONLY

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DESIGNED	- J. SCHROEDER	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- JUNE 1, 2018	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WALL A**  
**EXISTING STRUCTURE PLAN**

SHEET NO. WA7 OF WA7 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	293
CONTRACT NO. 61E06				
ILLINOIS FED. AID PROJECT				

Benchmark: Iron rod located along EB 55th Street, 4.79 ft south of the back of curb, Sta. 463+93.81, 27.58' Rt. Elev. 717.72' (NAVD 88)

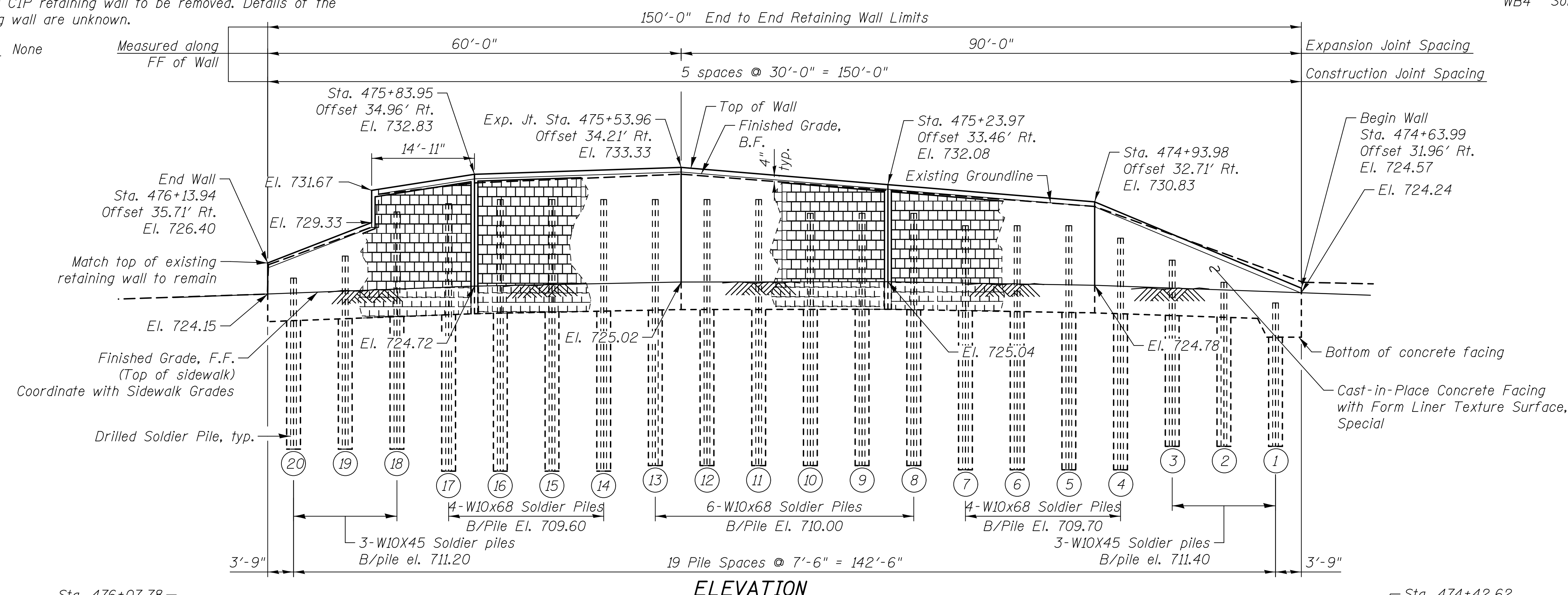
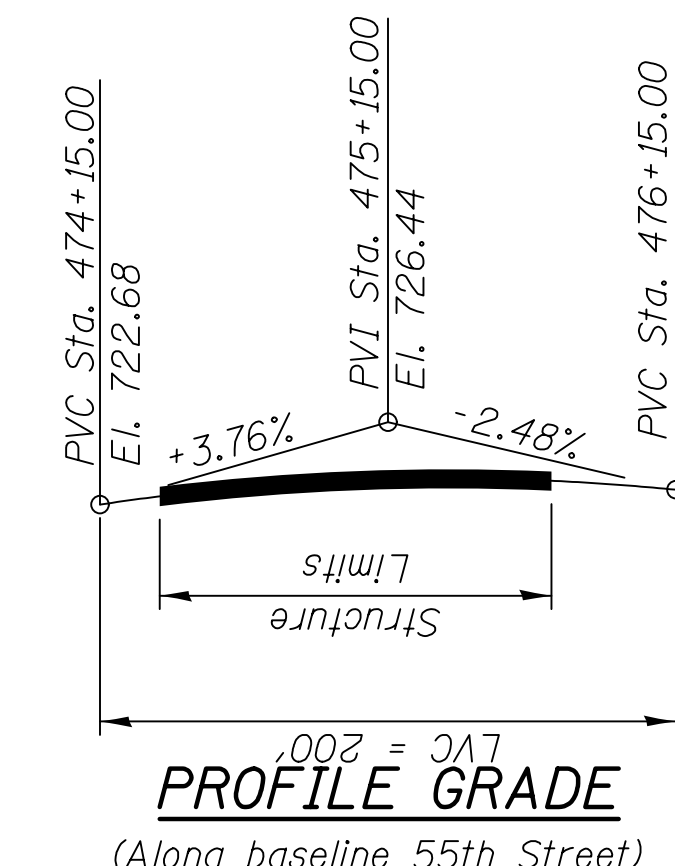
Maintenance of Traffic:  
Traffic will be maintained during construction.

Existing Structure:  
Existing CIP retaining wall to be removed. Details of the retaining wall are unknown.

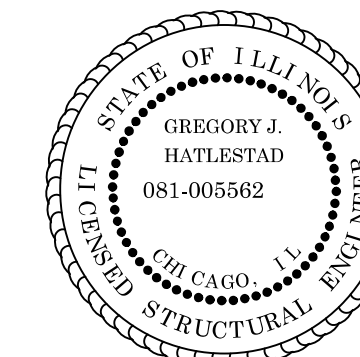
Salvage: None

**INDEX OF SHEETS**

- WB1 General Plan and Elevation
- WB2 Retaining Wall Elevation
- WB3 Retaining Wall Details
- WB4 Soil Borings



CIVILTECH ENGINEERING, INC.  
GREGORY J. HATLESTAD, S.E.



*G. Hatlestad*

GREGORY J. HATLESTAD, S.E.  
# 081-005562

EXP 11/30/2018

DATE 6/1/2018

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 Interims

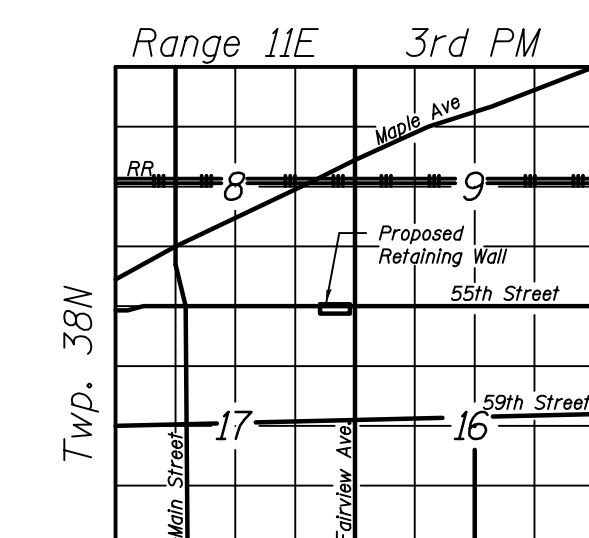
**DESIGN STRESSES**  
**FIELD UNITS**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
ty = 50,000 psi (M270 Grade 50)

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

**LEGEND**

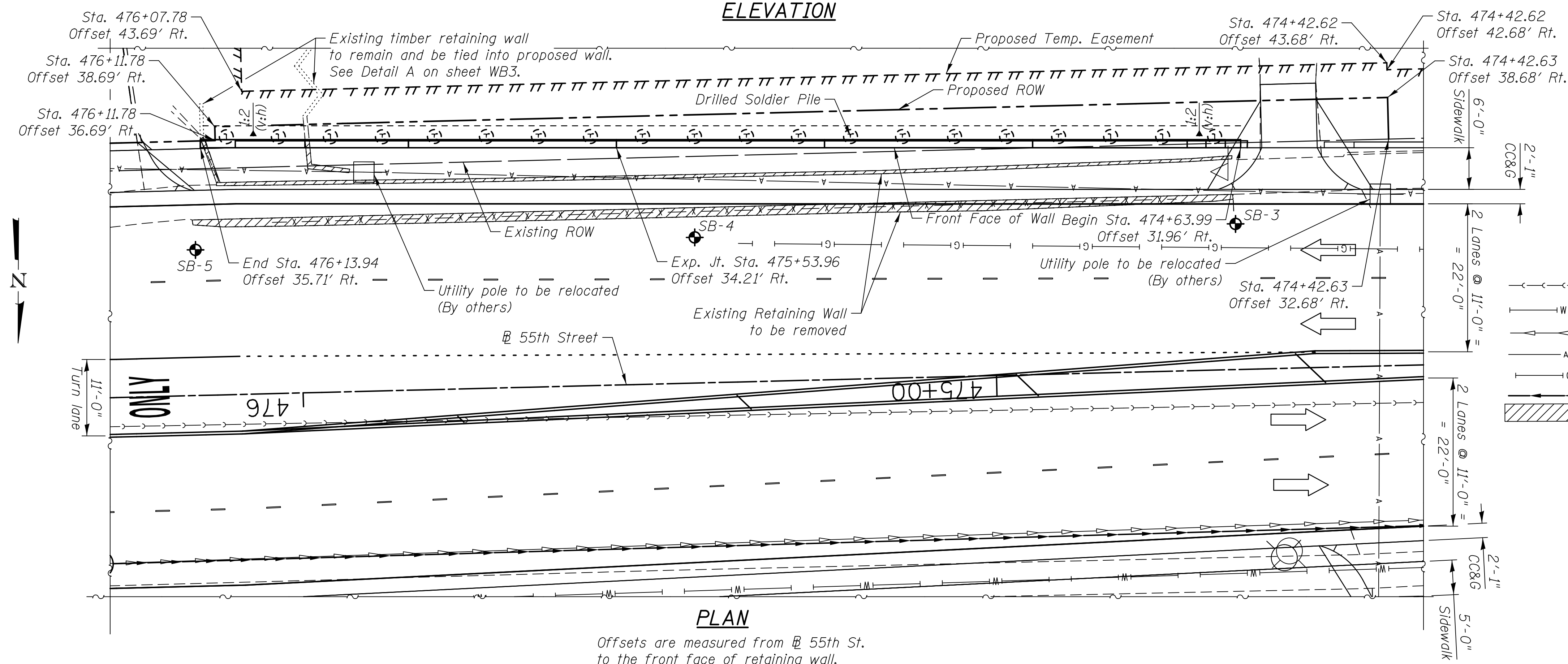
- Existing Sanitary Sewer
- Existing Water Lines
- Existing Storm Sewer
- Existing Aerial Lines
- Existing Gas Lines
- Proposed Storm Sewer
- Existing Retaining Wall to be Removed
- Soil Boring



**GENERAL PLAN AND ELEVATION**  
**RETAINING WALL ALONG 55TH STREET**

F.A.U. RTE 1504  
SECTION 11-00302-04-CH  
DUPAGE COUNTY

STA. 474+63.99 TO STA. 476+13.94  
BBS TRACKING NO. 022-W002



PLAN  
Offsets are measured from @ 55th St. to the front face of retaining wall.

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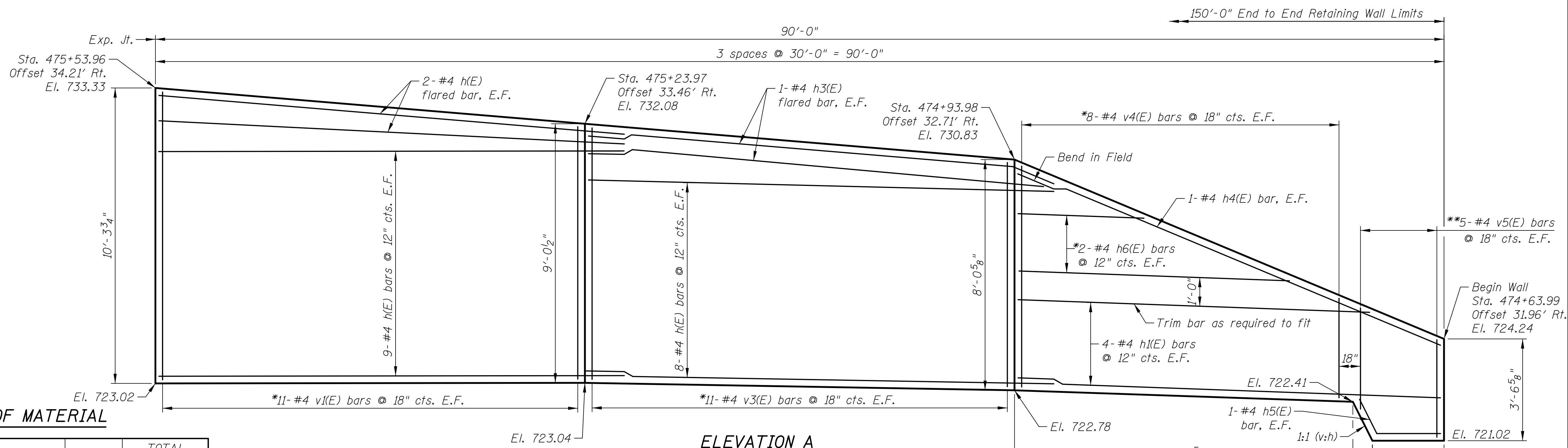
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WALL B**  
**GENERAL PLAN & ELEVATION**

SHEET NO. WB1 OF WB4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	294
CONTRACT NO. 61E06				
ILLINOIS FED. AID PROJECT				



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL QUANTITY
Structure Excavation	Cu. Yd.	168
Stud Shear Connectors	Each	144
Reinforcement Bars, Epoxy Coated	Pound	3,330
Furnishing Soldier Piles (W Section)	Foot	375
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	1,277
Untreated Timber Lagging	Sq. Ft.	897
Concrete Structures (Retaining Wall)	Cu. Yd.	55.9
Geocomposite Wall Drain	Sq. Yd.	49
Concrete Surface Color Treatment	Sq. Ft.	1,279
Form Liner Textured Surface, Special	Sq. Ft.	1,009
Concrete Retaining Wall Removal	Foot	297
Timber Retaining Wall Removal	Foot	17

**PILE ELEVATIONS**

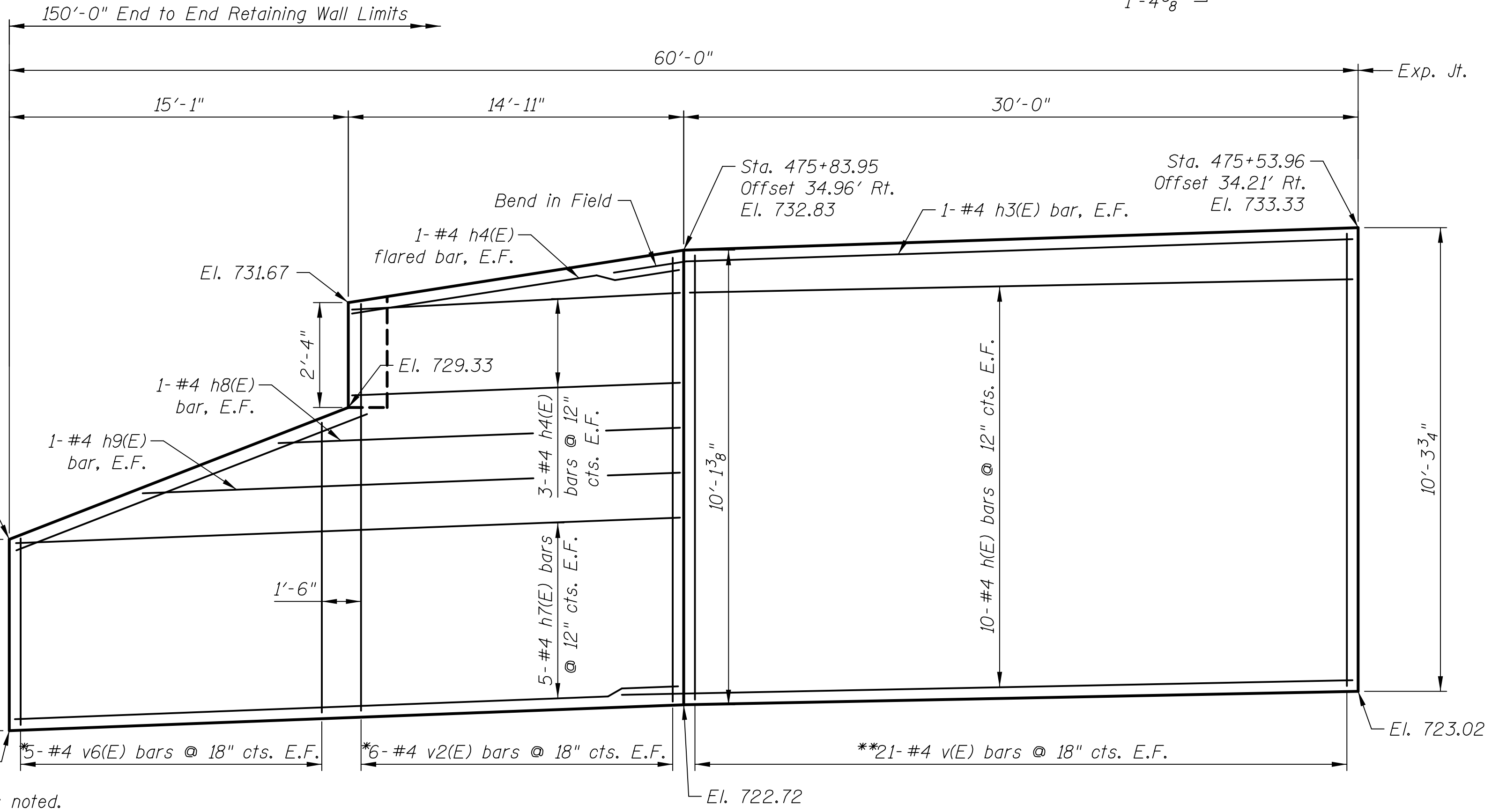
Pile No.	Centerline of Pile Station	*** Centerline of Pile Offset (Rt.)	Top of Pile Elevation	Bottom of CIP Facing	Stud Shear Connectors
1	474+67.70	33.64	723.50	721.02	3
2	474+75.19	33.83	725.00	722.48	4
3	474+82.69	34.02	726.60	722.61	5
4	474+90.19	34.22	728.20	722.73	6
5	474+97.69	34.40	729.10	722.83	7
6	475+05.19	34.59	729.10	722.91	7
7	475+12.68	34.78	729.10	722.98	7
8	475+20.18	34.97	730.00	723.02	8
9	475+27.68	35.15	730.00	723.05	8
10	475+35.18	35.34	730.00	723.07	8
11	475+42.67	35.53	731.00	723.06	9
12	475+50.17	35.72	731.00	723.04	9
13	475+57.67	35.90	731.00	723.00	9
14	475+65.17	36.09	731.00	722.94	9
15	475+72.66	36.28	731.00	722.87	9
16	475+80.16	36.47	731.00	722.78	9
17	475+87.66	36.65	730.70	722.67	8
18	475+95.16	36.82	730.10	722.54	7
19	476+02.66	37.01	726.70	722.39	6
20	476+10.15	37.20	725.30	722.23	4

*** Offsets are measured from @ 55th St. to center of soldier pile.

**GENERAL NOTES**

- All exposed edges shall have 3/4" Chamfer, except as noted.
- All fill and backfill shall be compacted to 95% of standard proctor density.
- Reinforcement Bars designated (E) shall be Epoxy Coated.
- Compaction of soil and granular material located within 2'-0" from the back of the retaining wall shall be compacted to the satisfaction of the Engineer using a suitable mechanical hand tamper.
- Offsets are measured from @ 55th St. to front face of wall, unless otherwise noted.

**ELEVATION A**



**ELEVATION B**

**MINIMUM BAR LAP**

#4 bar = 2'-7"

* See Field Cutting Diagram on Sheet WB3

** Trim bars as required to fit

3:54:37 PM 4/2/2018 \\s:\298\cad\sheet\4-Structures\Wall B\02_Wall B Elevation.dgn

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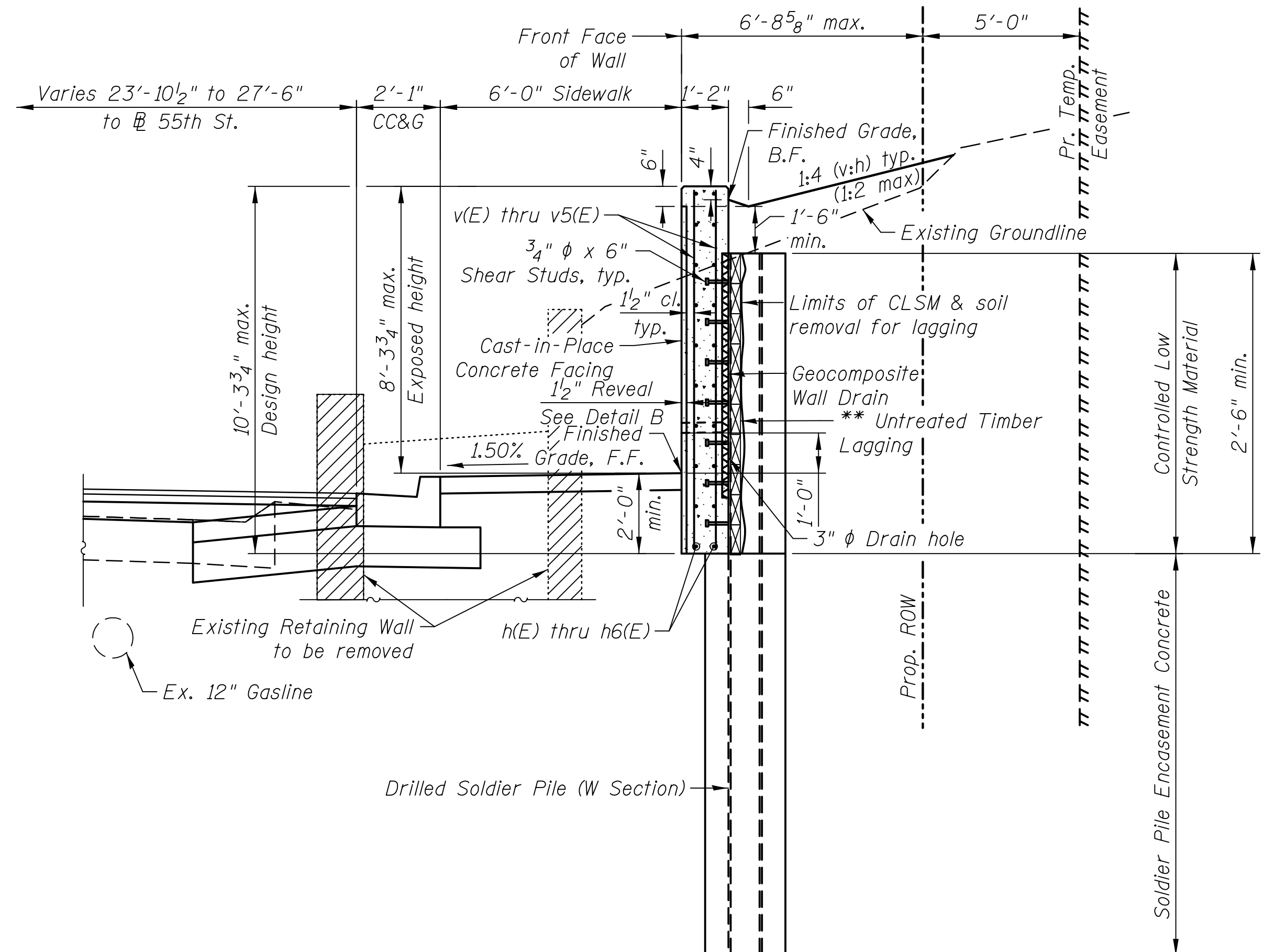
DRAWN	- J. SCHROEDER	REVISED	-
DESIGNED	- J. SCHROEDER	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- JUNE 1, 2018	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

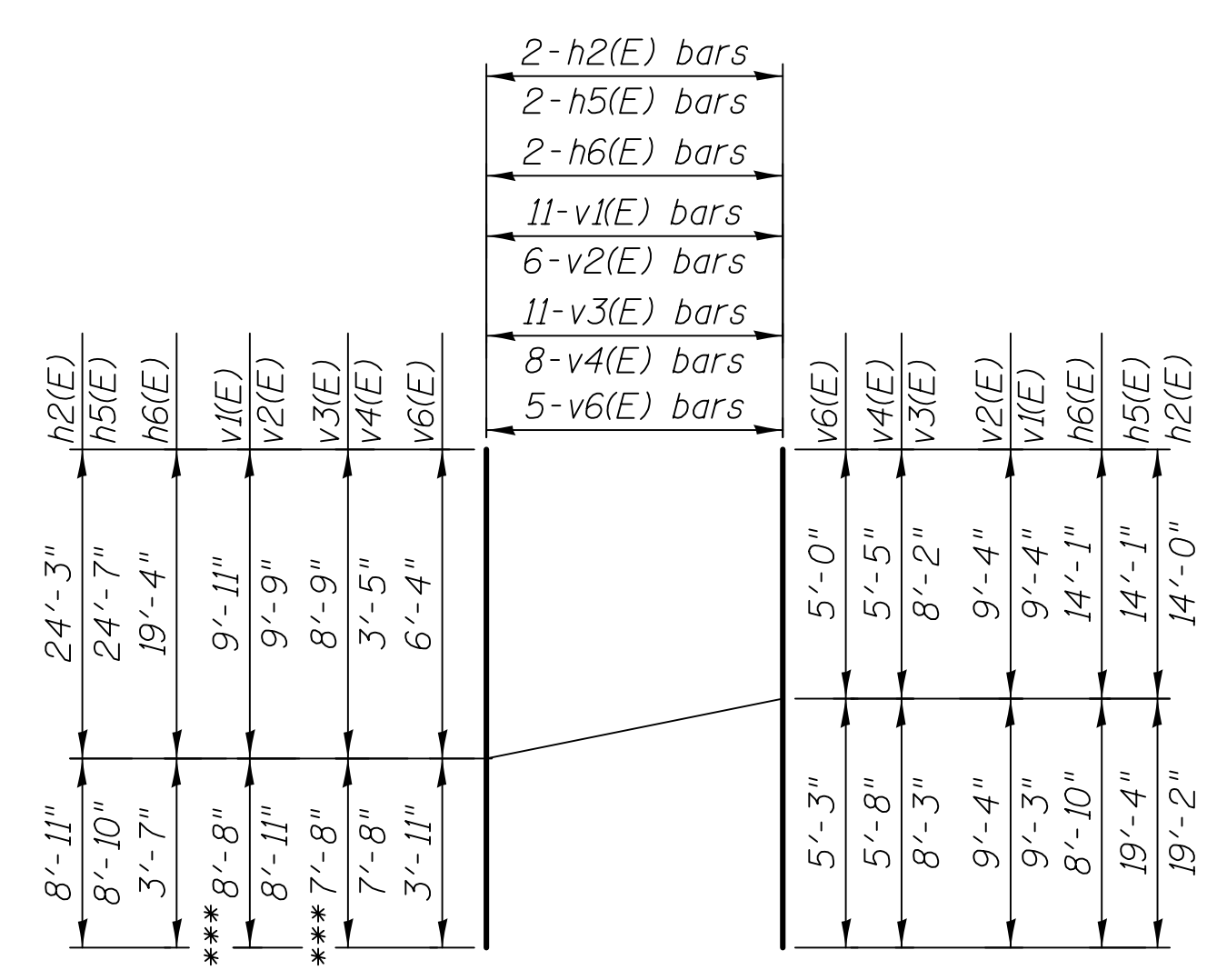
**WALL B  
ELEVATION**

SHEET NO. WB2 OF WB4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	295
CONTRACT NO. 61E06				
ILLINOIS FED. AID PROJECT				



**TYPICAL WALL SECTION**



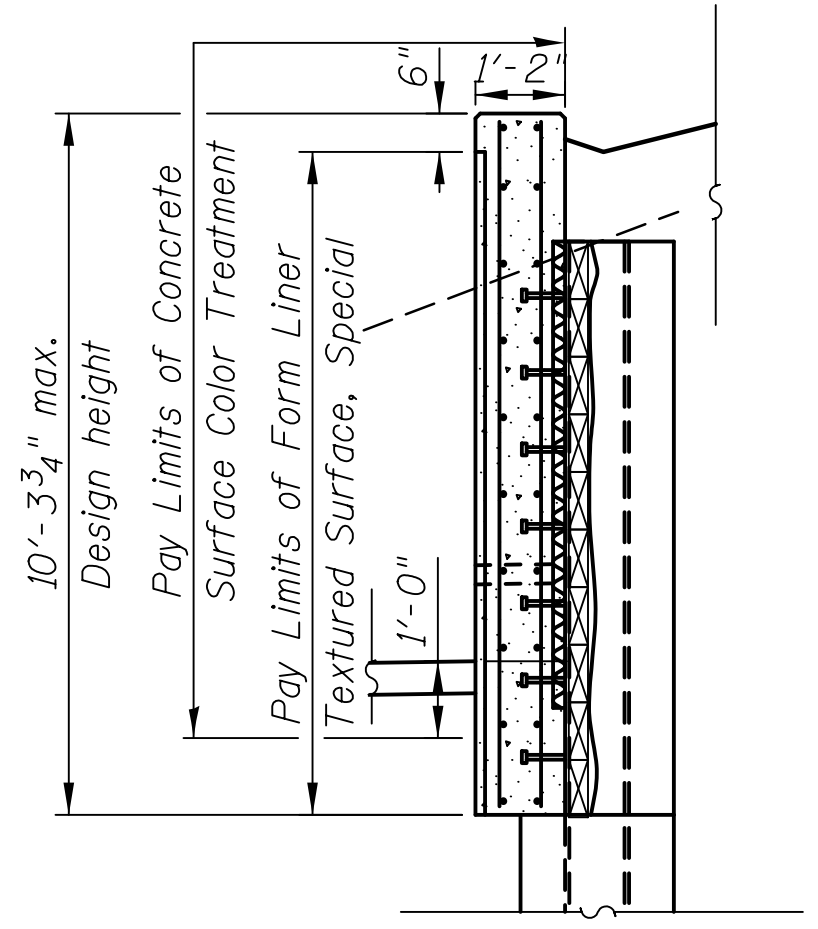
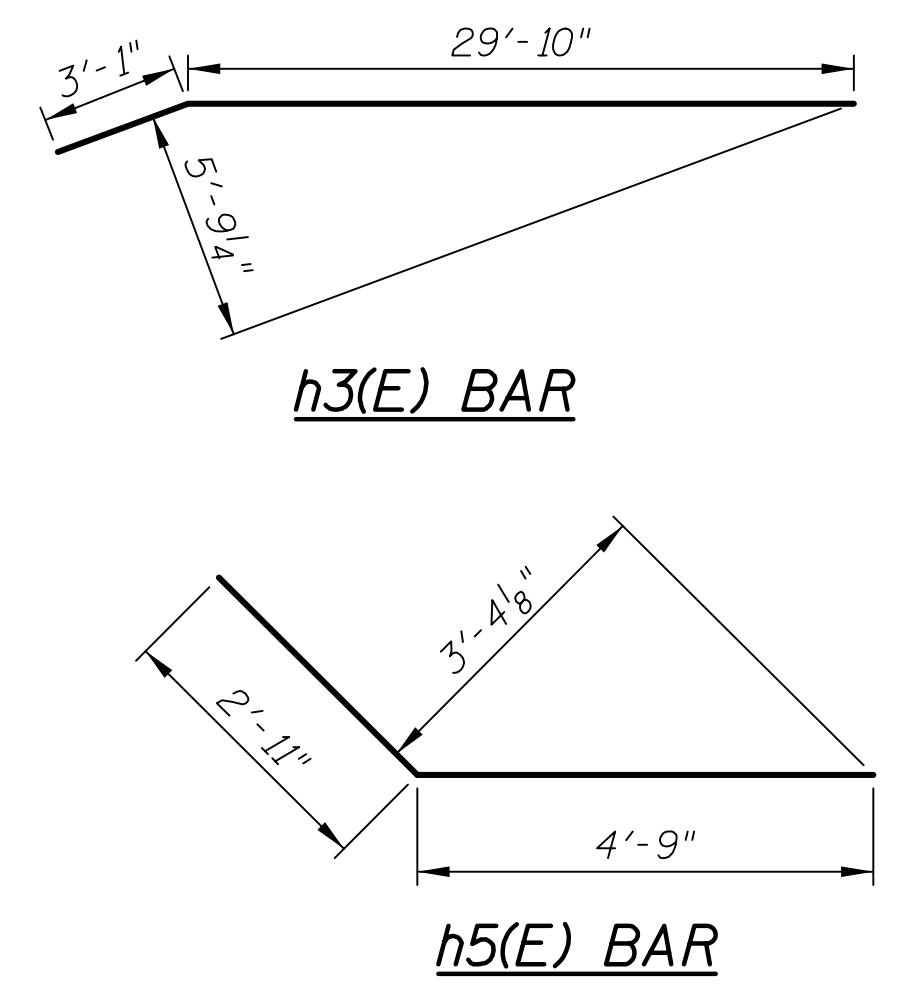
**FIELD CUTTING DIAGRAM**

*** Indicates bar length to be discarded when an odd number of bars are required.

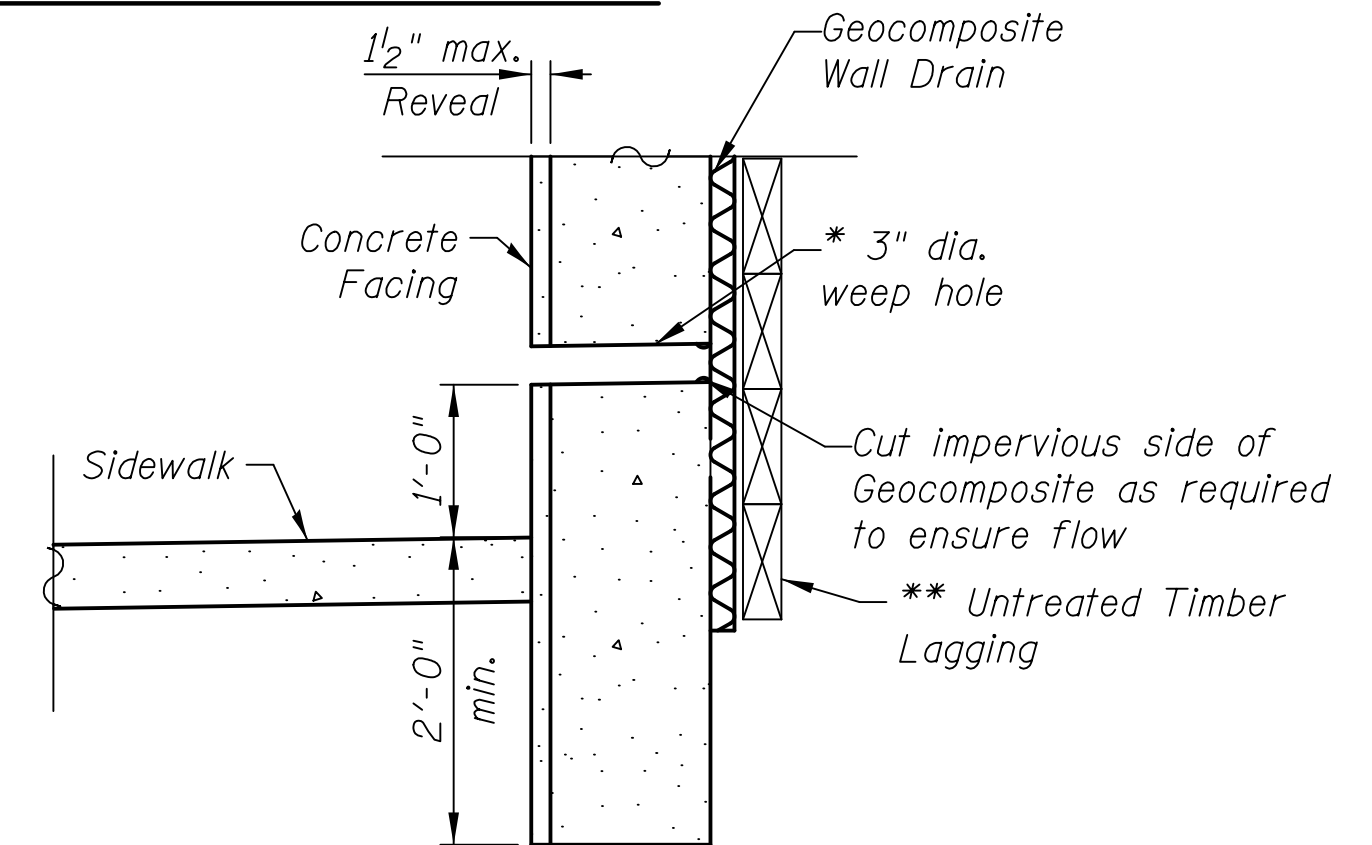
Notes:  
1. See sheet WB2 for wall elevation locations.  
2. Bars indicated thus 7x2-#5 etc. indicates 7 lines of bars with 2 lengths per line.

**REINFORCEMENT BAR LIST**

Bar	No.	Size	Length	Shape		
h(E)	58	#4	32'-11"	—		
h1(E)	16	#4	29'-8"	—		
h2(E)	4	#4	33'-2"	—		
h3(E)	4	#4	32'-11"	—		
h4(E)	4	#4	30'-4"	—		
h5(E)	2	#4	7'-8"	—		
h6(E)	4	#4	22'-11"	—		
h7(E)	10	#4	29'-8"	—		
h8(E)	2	#4	18'-0"	—		
h9(E)	2	#4	23'-7"	—		
v(E)	42	#4	9'-11"	—		
v1(E)	22	#4	18'-7"	—		
v2(E)	22	#4	18'-8"	—		
v3(E)	22	#4	16'-5"	—		
v4(E)	16	#4	11'-1"	—		
v5(E)	10	#4	4'-1"	—		
v6(E)	10	#4	10'-3"	—		
				Item	Unit	Quantity
				Reinforcement Bars, Epoxy Coated	Pound	3,330

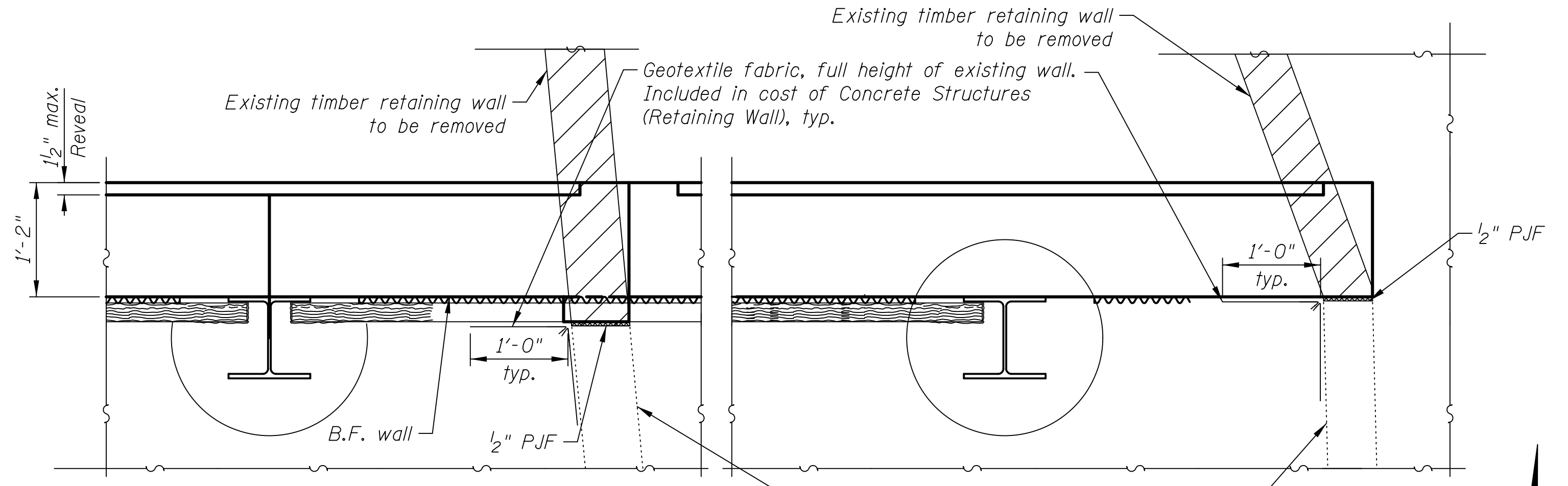


**DETAIL B**

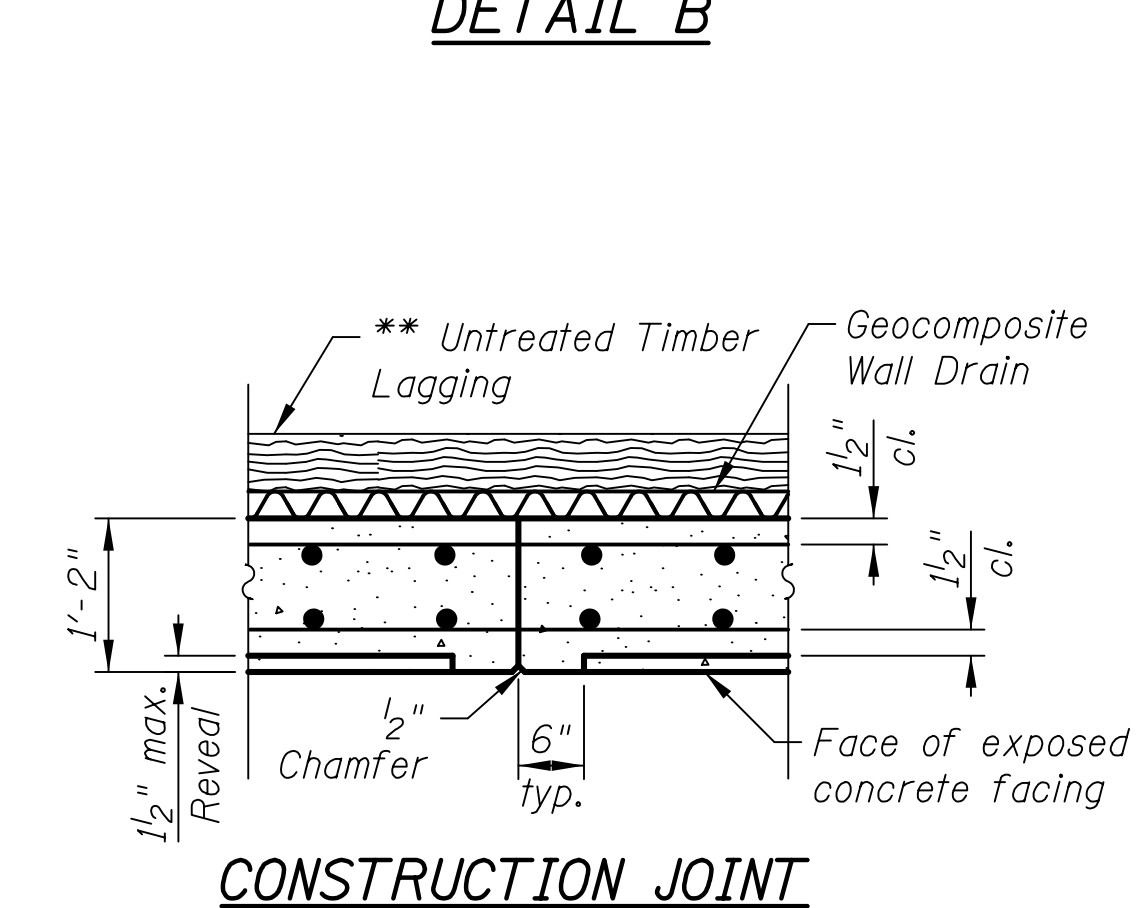


**WEEP HOLE DRAIN DETAIL**

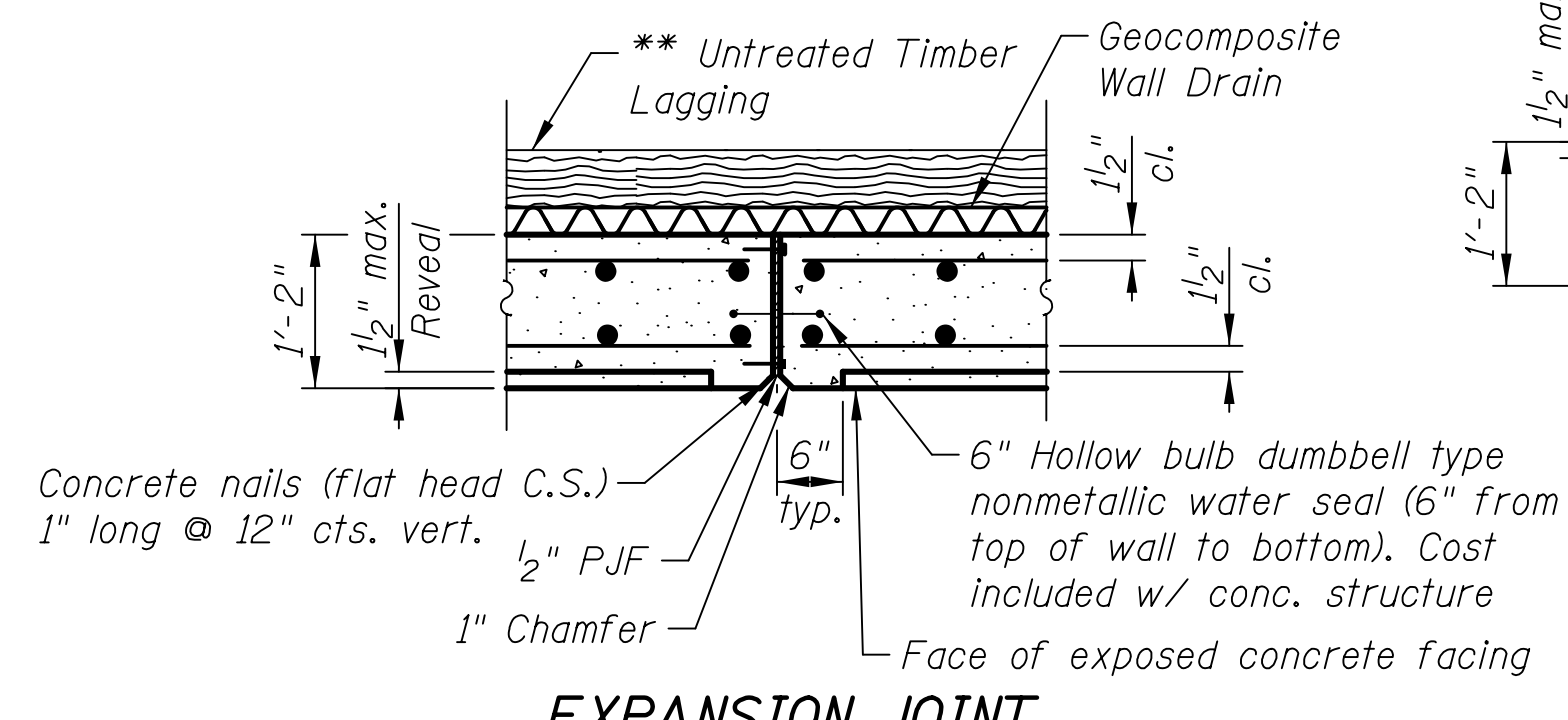
* Weep hole spacing shall be at ± 8'-0" horizontally.



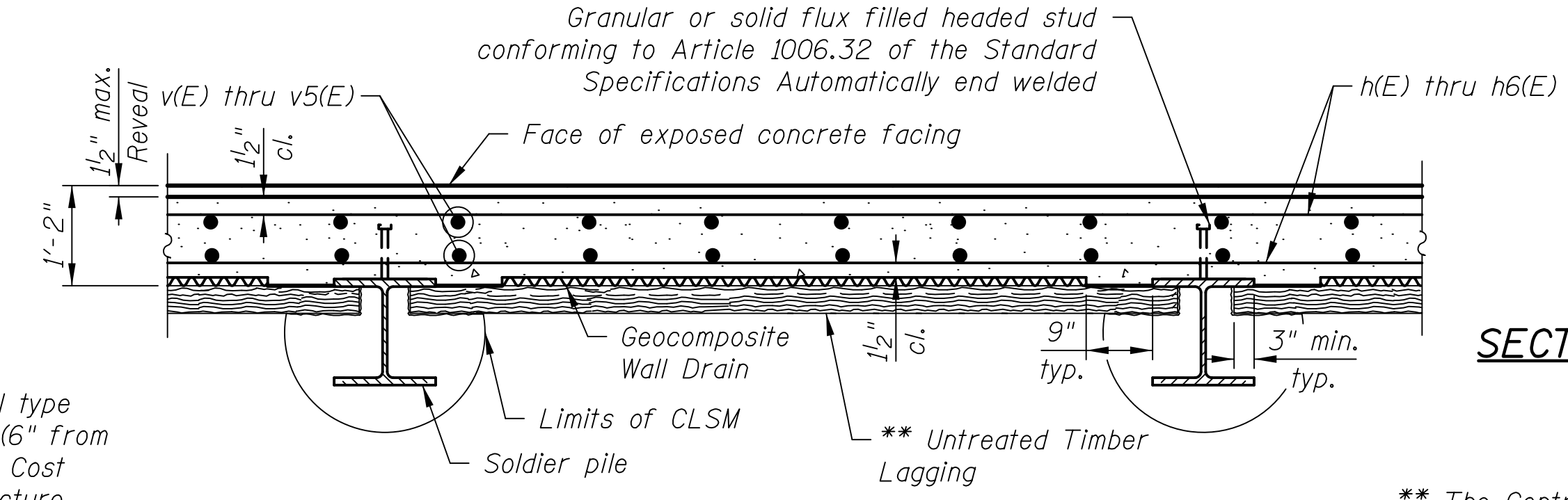
**DETAIL A**



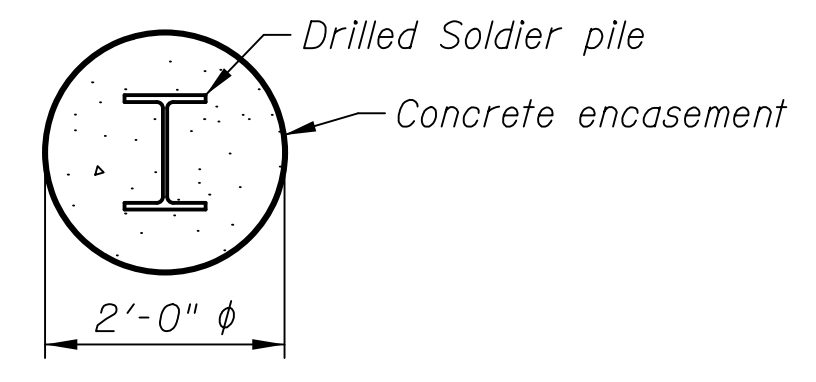
**CONSTRUCTION JOINT**



**EXPANSION JOINT**



**SECTION THRU DRILLED SOLDIER PILE WALL**



**SECTION THRU ENCASEMENT CONCRETE**

** The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

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450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DRAWN	- J. SCHROEDER	REVISED	-
DESIGNED	- J. SCHROEDER	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- JUNE 1, 2018	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WALL B  
RETAINING WALL DETAILS**

SHEET NO. WB3 OF WB4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	296
CONTRACT NO. 61E06			ILLINOIS FED. AID PROJECT	



MSET PROJECT NO.: 15503		LOG OF BORING NO. SB-3		Page 1 of 1					
PROJECT: 55th Street Improvements		SITE LOCATION: DuPage County, Illinois							
BORING LOCATION: Station 474+65, 21'R		CLIENT: Civiltech Engineering, Inc.							
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS			REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	
0		Pavement: 12" HMA over 6" GBC	724.0						
2		Brown & Grey Silty Clay LOAM, A-6 very stiff to hard	722.5	SS 1	10	14		3.0	Op
4		to Brown	719.5	SS 2	13	15	115	4.54	
6				SS 3	17	13			
8				SS 4	18	14		4.29	
10		Grey CLAY, A-6, very stiff to hard	713.5	SS 5	11	14	113	3.10	
12				SS 6	13	16	112	4.23	
14		Cobble or boulder at 16.5'	707.5	SS 7	35	17	111	2.71	
16				SS 8	11	15	117	1.75	
18		Grey Silty CLAY, A-6, stiff to very stiff	703.5	SS 9	14	13	120	1.63	
20				SS 10	9	10	124	3.22	
22		End of Boring at 25 Feet	699.0						

WATER LEVEL OBSERVATIONS, ft. None  
DURING DRILLING: Dry  
IMMEDIATELY AFTER DRILLING:  
DELAYED READING AFTER

**BORING STARTED:** 6/15/16  
**BORING COMPLETED:** 6/15/16  
**LOGGED BY:** MP  
**BORING METHOD:** HSA

MSET  
Midland Standard Engineering & Testing, Inc. 558 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 (847) 844-3875

MSET PROJECT NO.: 15503		LOG OF BORING NO. SB-4		Page 1 of 1					
PROJECT: 55th Street Improvements		SITE LOCATION: DuPage County, Illinois							
BORING LOCATION: Station 475+43, 21'R		CLIENT: Civiltech Engineering, Inc.							
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS			REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	
0		Pavement: 14" HMA over 4" GBC	724.5						
2		Brown & Grey Silty Clay LOAM, A-6 very stiff to hard	723.0	SS 1	10	14	97	2.40	
4		to Brown	720.5	SS 2	11	13	115	4.81	
6				SS 3	15	14	114	3.96	
8				SS 4	18	17	108	6.36	
10		Grey CLAY, A-6, very stiff	714.0	SS 5	13	17	112	3.07	
12				SS 6	11	18	110	3.41	
14		intermittent moist sand seams at 17'	707.5	SS 7	7	13			
16		Grey Silty CLAY, A-6, stiff to very stiff	706.5	SS 8	14	12	121	1.90	
18				SS 9	12	12	121	2.79	
20				SS 10	18	11	118	2.37	
22		End of Boring at 25 Feet	699.5						

WATER LEVEL OBSERVATIONS, ft. None  
DURING DRILLING: Dry  
IMMEDIATELY AFTER DRILLING:  
DELAYED READING AFTER

**BORING STARTED:** 6/15/16  
**BORING COMPLETED:** 6/15/16  
**LOGGED BY:** MP  
**BORING METHOD:** HSA

MSET  
Midland Standard Engineering & Testing, Inc. 558 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 (847) 844-3875

MSET PROJECT NO.: 15503		LOG OF BORING NO. SB-5		Page 1 of 1					
PROJECT: 55th Street Improvements		SITE LOCATION: DuPage County, Illinois							
BORING LOCATION: Station 476+15, 21'R		CLIENT: Civiltech Engineering, Inc.							
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS			REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	
0		Pavement: 12" HMA over 6" GBC	724.0						
2		Brown & Grey Silty Clay LOAM, A-6 very stiff to hard	722.5	SS 1	11	14	97	3.01	
4		to Brown	720.0	SS 2	10	16	112	3.88	
6				SS 3	13	13	99	4.19	
8				SS 4	14	13	115	5.24	
10		Grey CLAY, A-6, very stiff to hard	713.5	SS 5	17	11	104	3.10	
12				SS 6	12	16	116	5.01	
14				SS 7	11	16	104	3.30	
16		wet sand seam at 18.5'	705.5	SS 8	7	16			
18		Grey Silty CLAY, A-6 stiff	703.5	SS 9	14	14	116	1.82	
20				SS 10	11	15	119	1.67	
22		End of Boring at 25 Feet	699.0						

WATER LEVEL OBSERVATIONS, ft. 18.5'  
DURING DRILLING: 21.0'  
IMMEDIATELY AFTER DRILLING:  
DELAYED READING AFTER

**BORING STARTED:** 6/15/16  
**BORING COMPLETED:** 6/15/16  
**LOGGED BY:** MP  
**BORING METHOD:** HSA

MSET  
Midland Standard Engineering & Testing, Inc. 558 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 (847) 844-3875

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**CIVILTECH**  
450 E Devon Ave, Suite 300  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

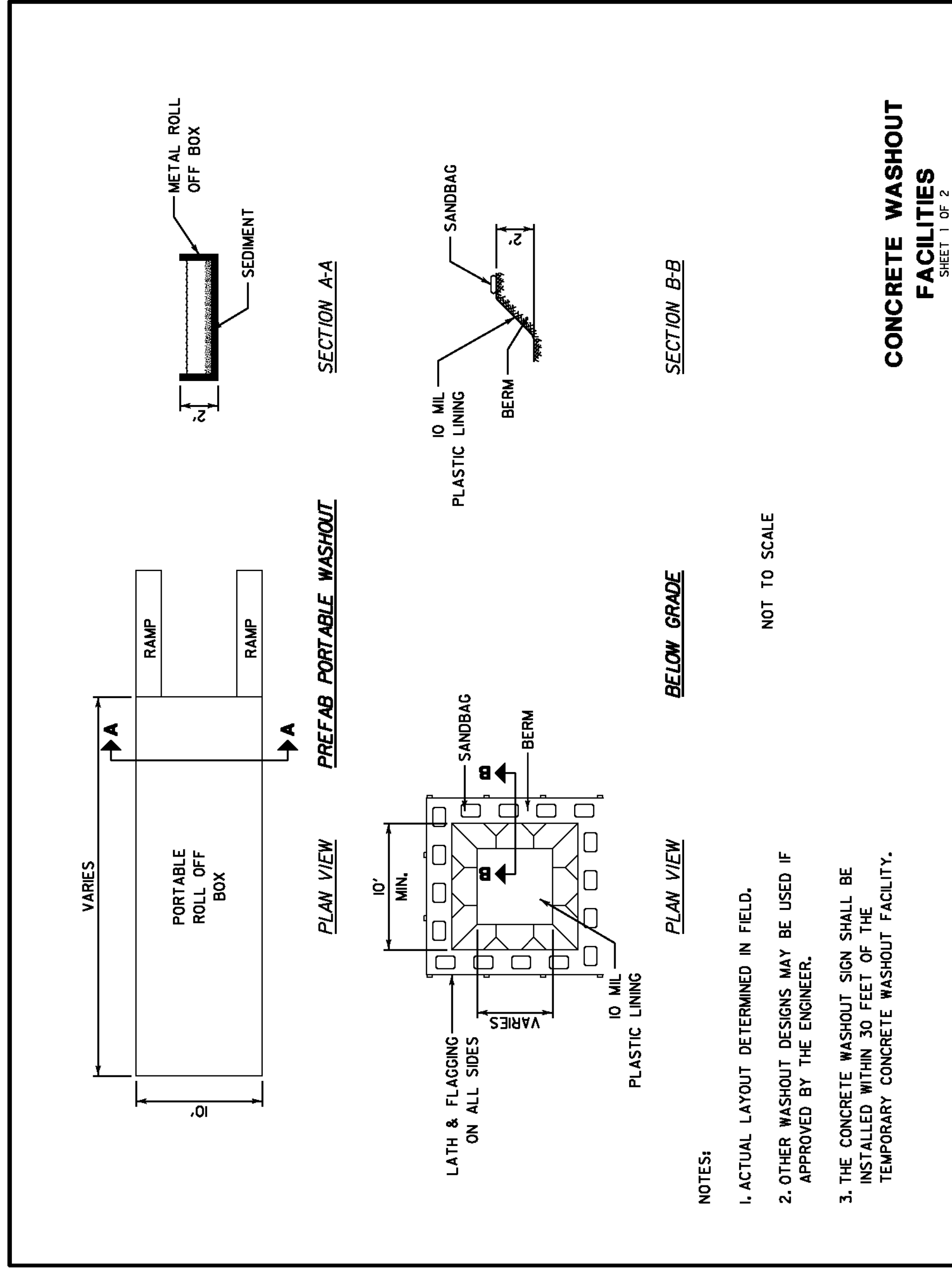
DRAWN	- J. SCHROEDER	REVISED	-
DESIGNED	- J. SCHROEDER	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- JUNE 1, 2018	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

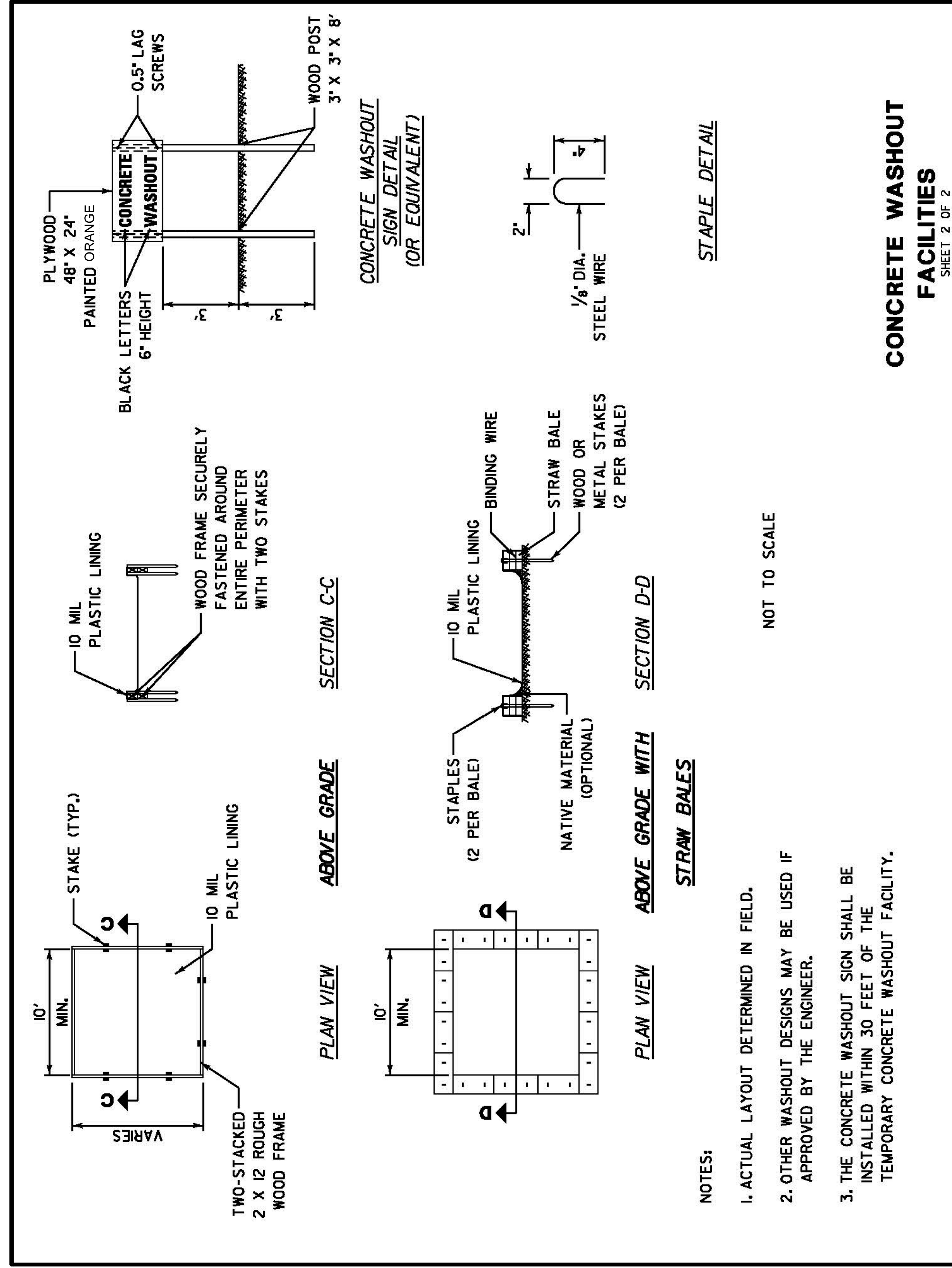
**WALL B  
SOIL BORINGS**

SHEET NO. WB4 OF WB4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	11-00302-04-CH	DUPAGE	341	297
CONTRACT NO. 61E06				
ILLINOIS FED. AID PROJECT				



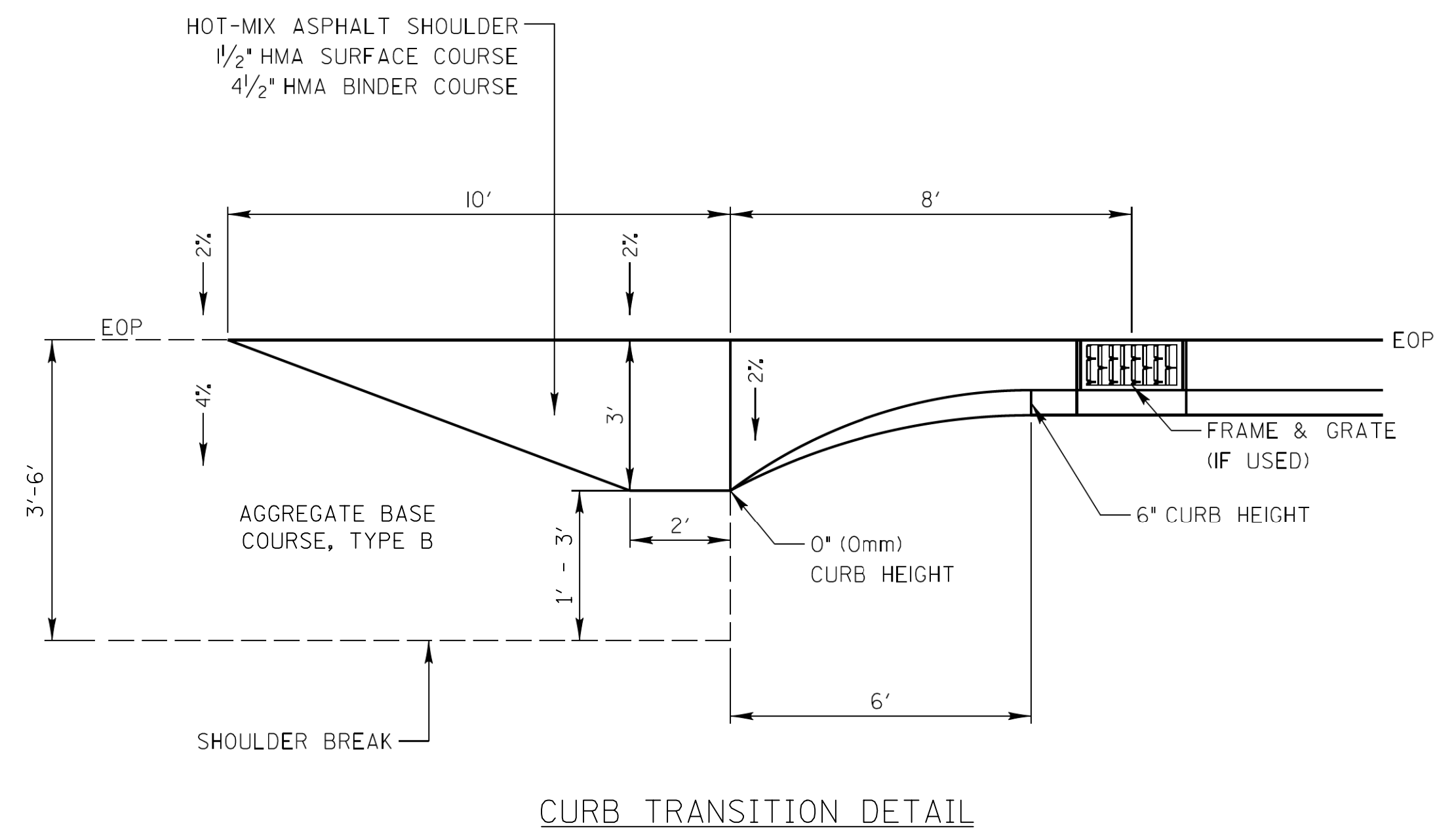
- NOTES:**
1. ACTUAL LAYOUT DETERMINED IN FIELD.
  2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
  3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



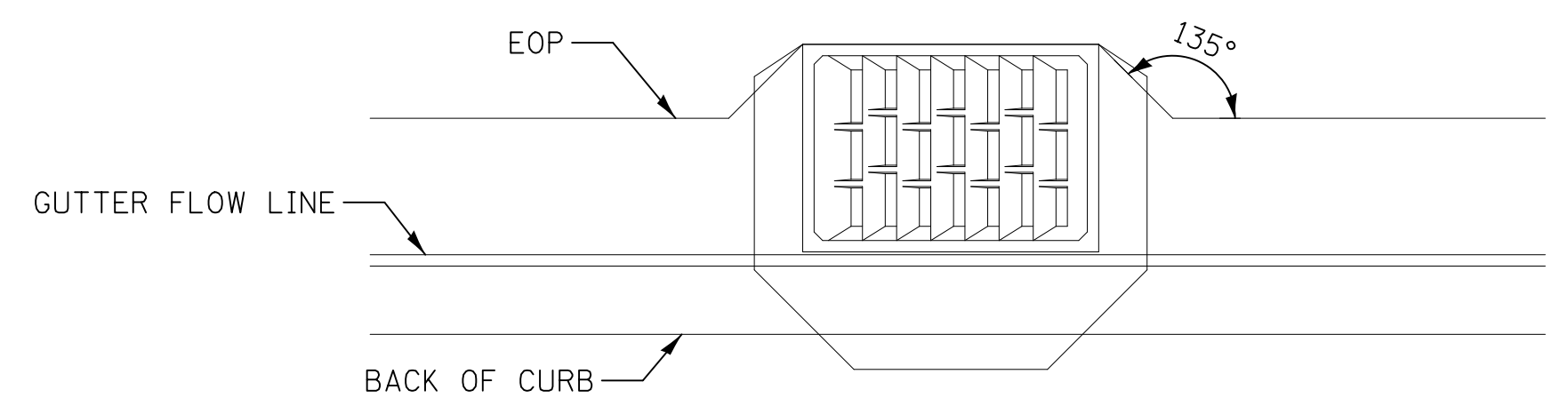
- NOTES:**
1. ACTUAL LAYOUT DETERMINED IN FIELD.
  2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
  3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

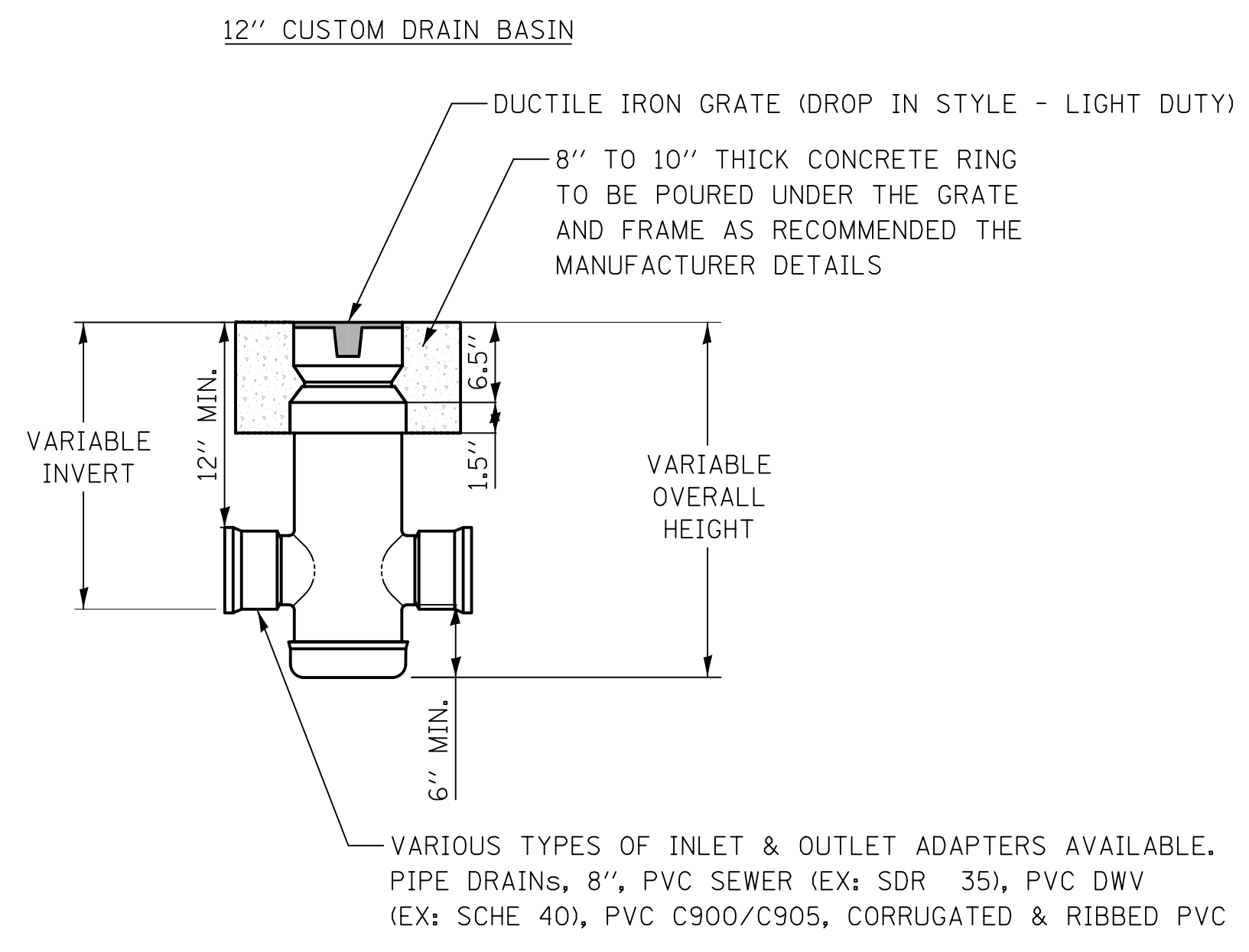
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



CURB TRANSITION DETAIL



TYPE 23 FRAME AND GRATE IN COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12



INLETS, SPECIAL DETAIL

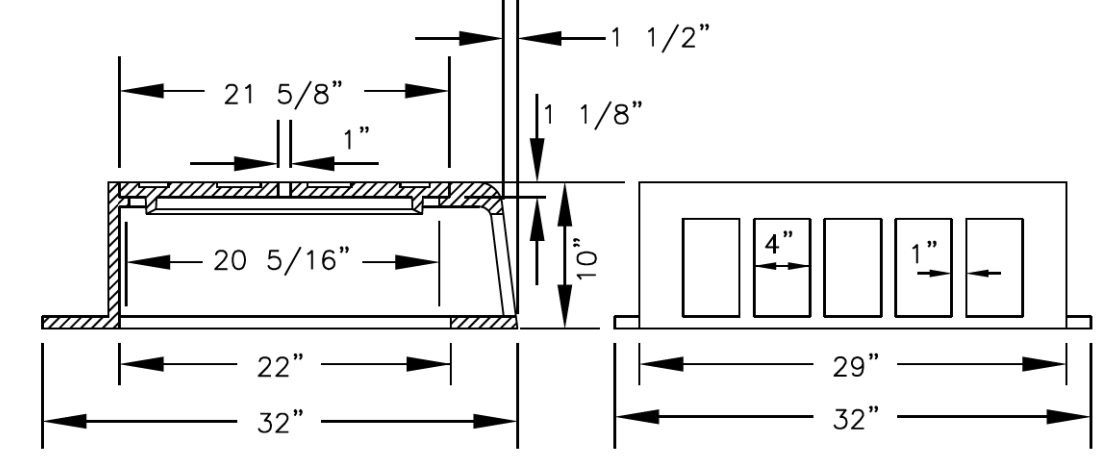
NOTES:  
 GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.  
 CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.  
 DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE & SDR 35 PVC.  
 DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.

SAG FRAME & LID

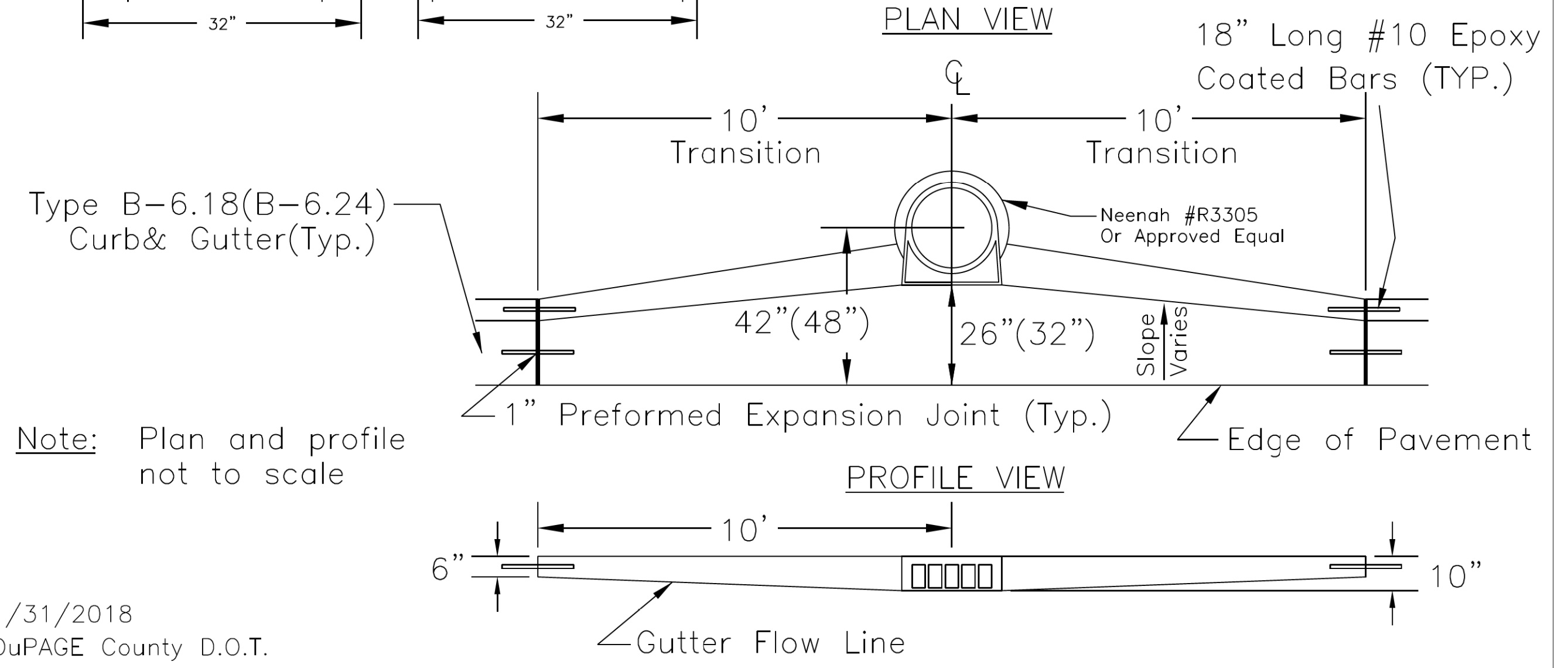
Sag Frame and Lid shall be Neenah Foundry Company #R-3305

R-3305 Catch Basin Frame and Lid

For behind-the-curb construction.  
 Heavy-Duty  
 Total weight 937 Kilograms (425 lbs.)



PLAN VIEW



PROFILE VIEW

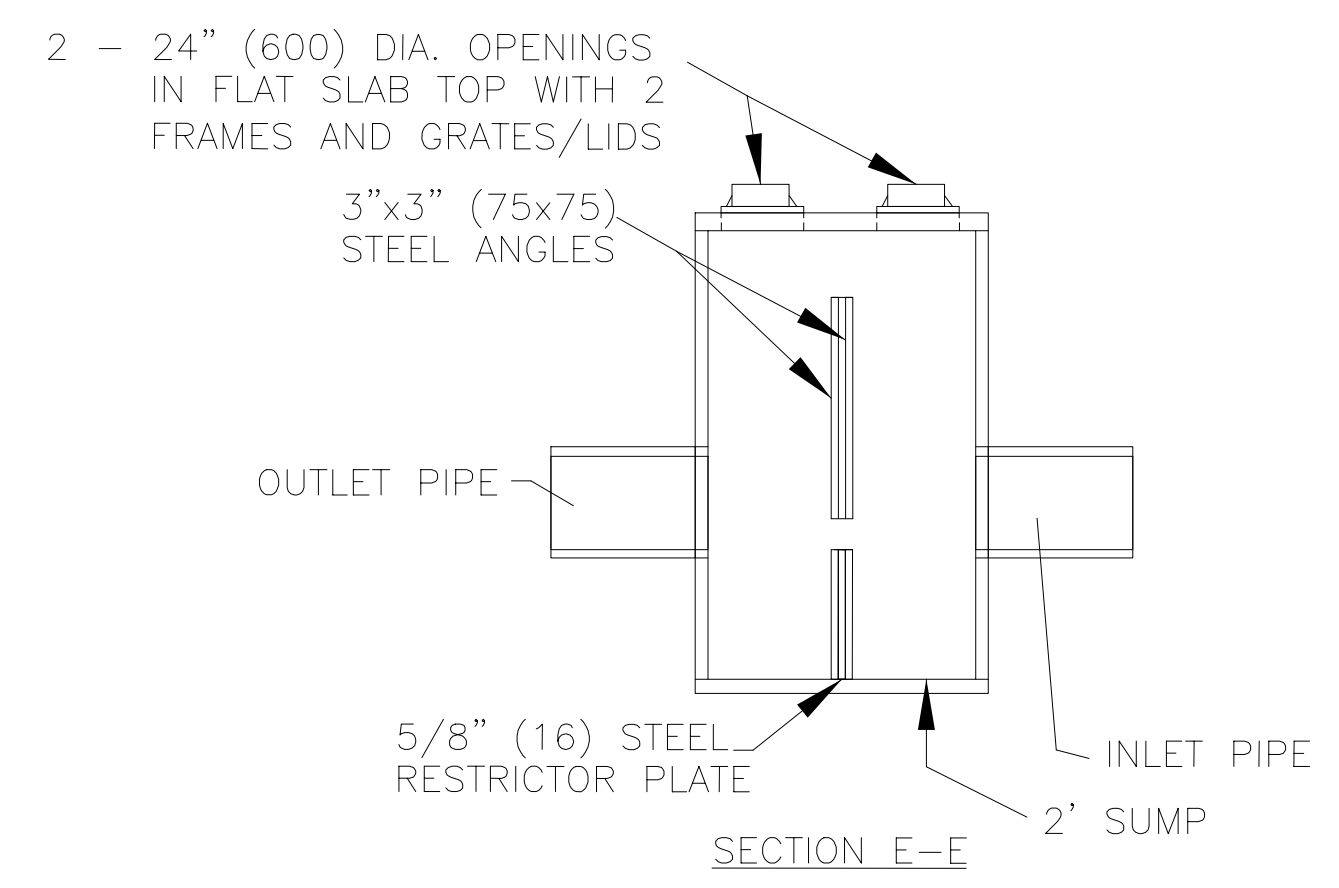
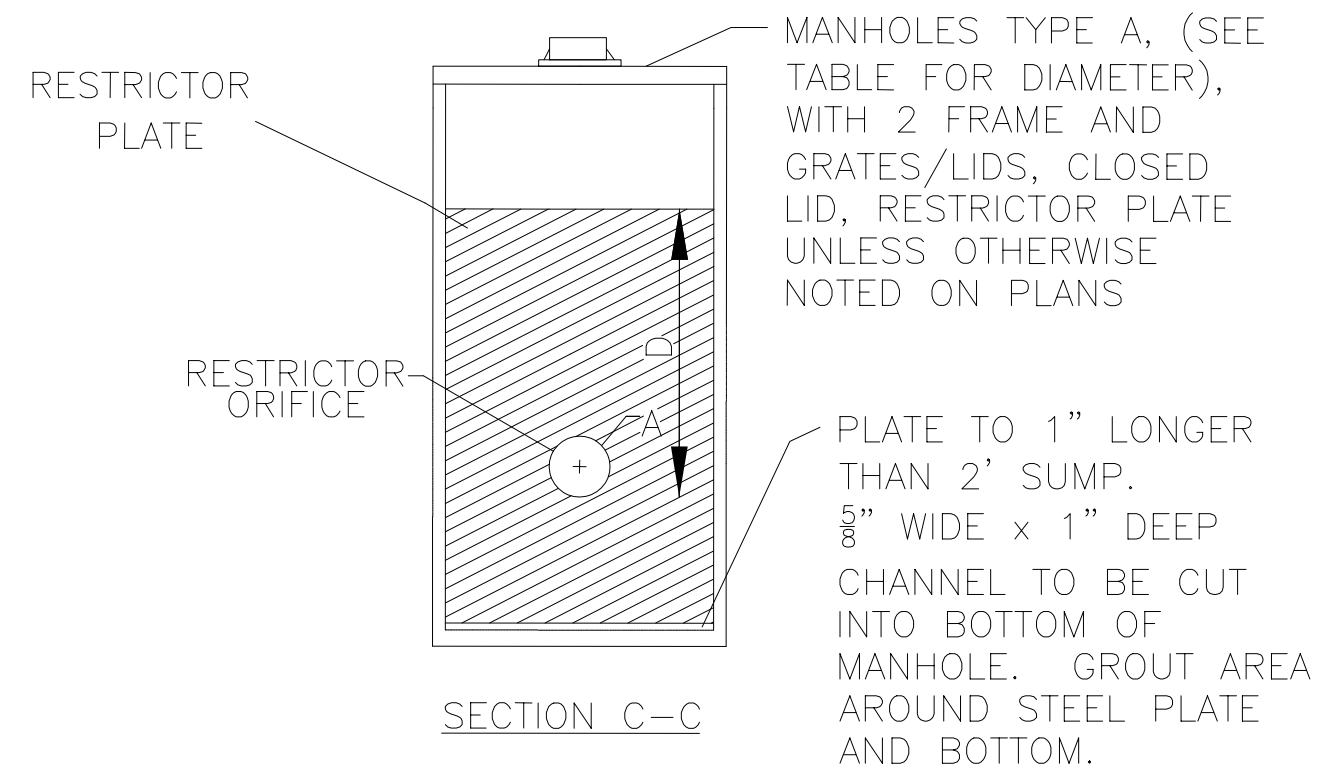
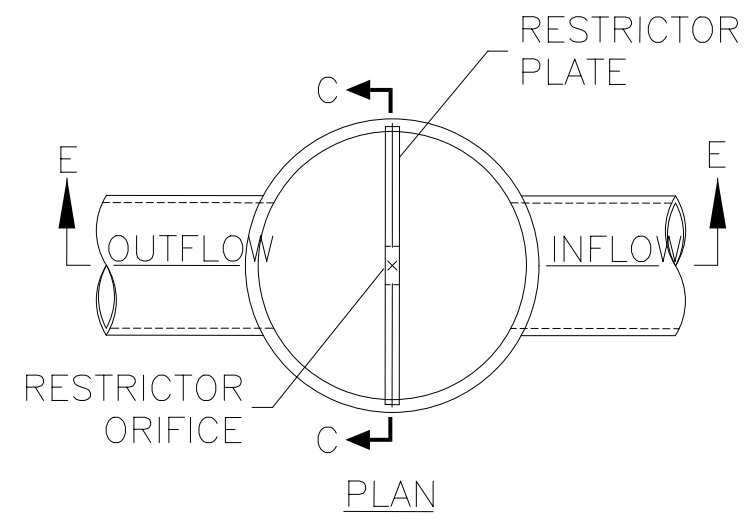
1/31/2018  
 DuPAGE County D.O.T.

SAG FRAME & LID DETAIL

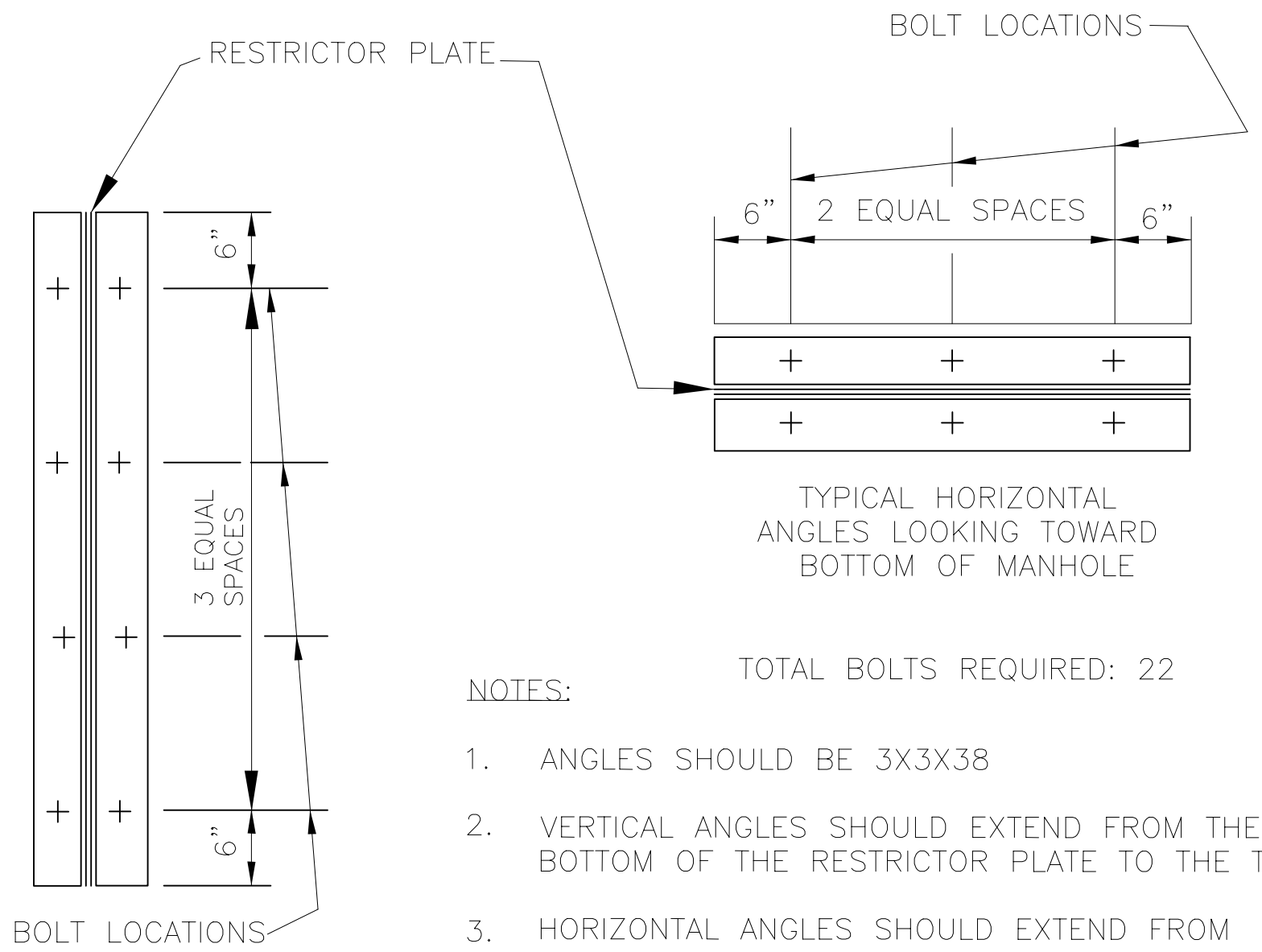
DATE _____ BY _____  
 SURVEYED _____ PLOTTED _____ CHECKED _____  
 NOTE BOOK _____ NO. _____  
 PLAN _____

DATE _____ BY _____  
 SURVEYED _____ PLOTTED _____ CHECKED _____  
 NOTE BOOK _____ NO. _____  
 PROFILE _____

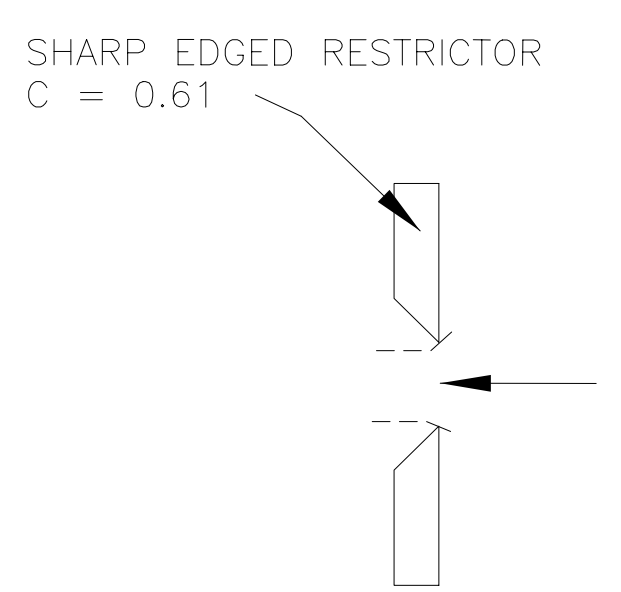
STRUCTURE	DIAMETER "A"	INVERT "A"	DIMENSION "D"	TOP OF RESTRICTOR PLATE ELEV.	RIM ELEV.	MANHOLE DIAMETER
31	0.58'	733.34'	4.25'	737.59'	739.76'	6'
38	0.92'	726.03'	2.37'	728.40'	730.32'	6'
102	1.00'	713.85'	3.38'	717.23'	719.15'	6'



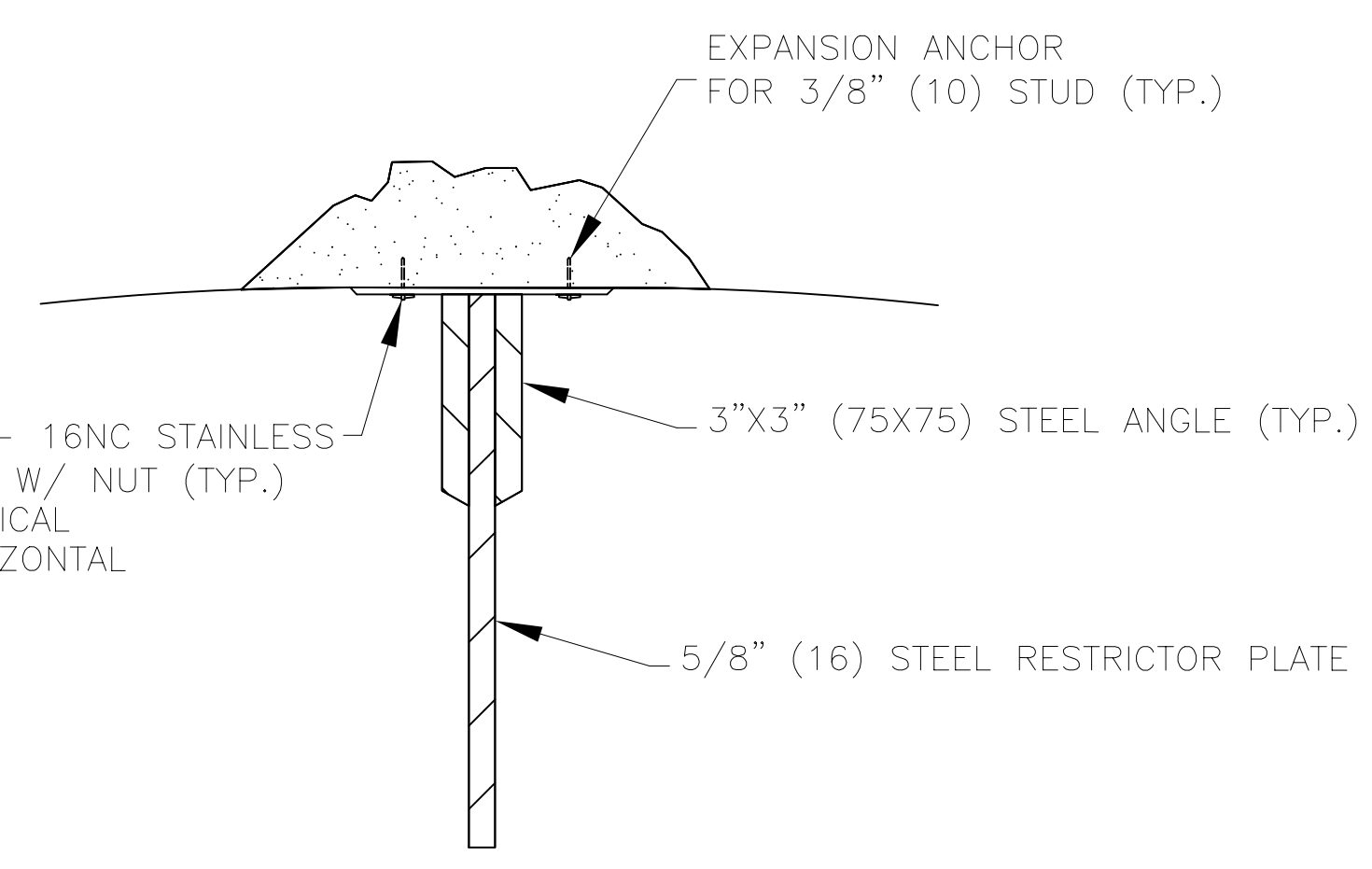
**DRAINAGE STRUCTURE RESTRICTORS**  
 (NOT TO SCALE)



**STEEL ANGLE BOLTING DETAILS**  
 (NOT TO SCALE)



**RESTRICTOR TYPE**  
 (NOT TO SCALE)



**ANGLE FASTENER DETAIL**  
 (NOT TO SCALE)

- NOTES:
- ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
  - ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
  - BASIS OF PAYMENT: "MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE".