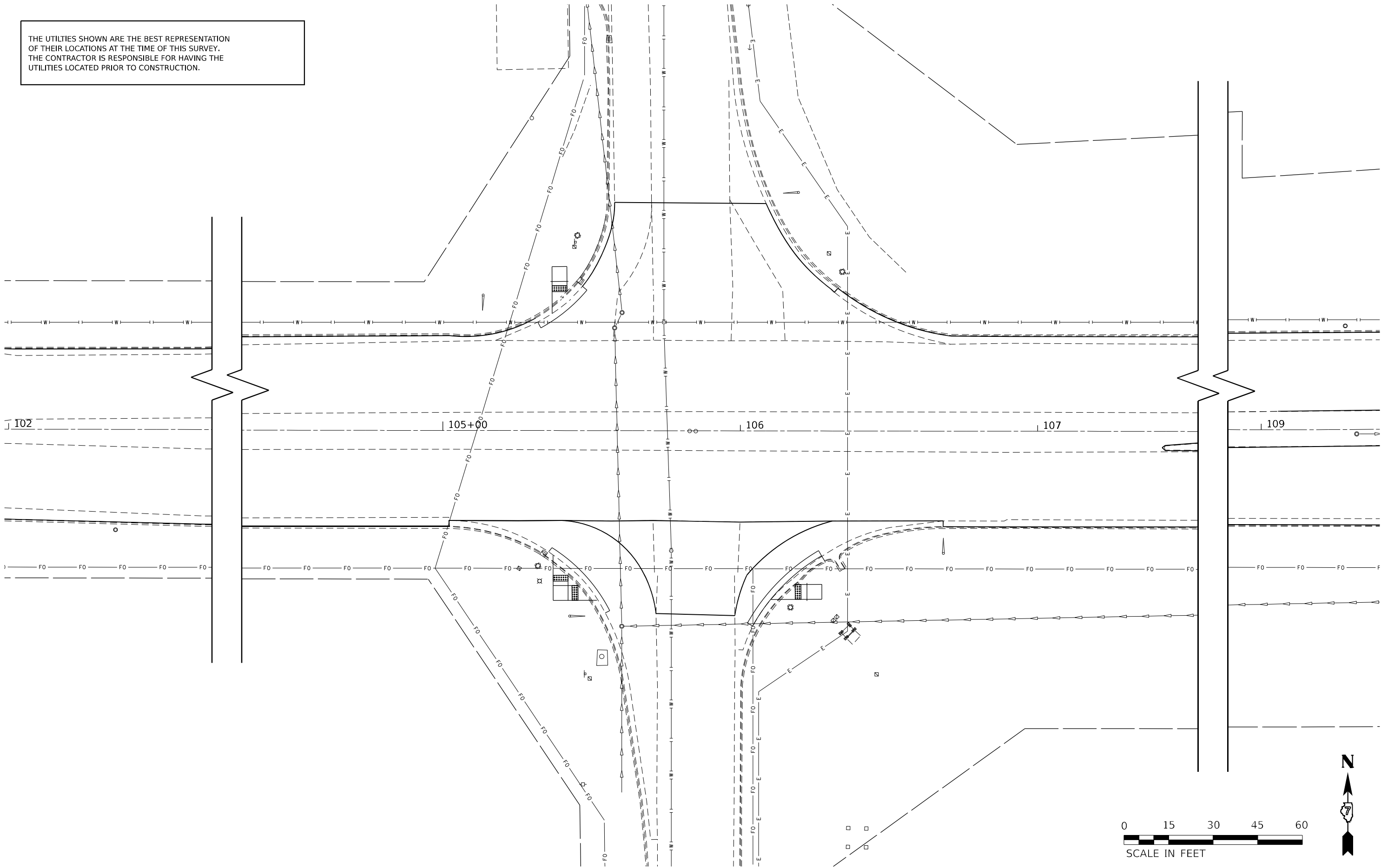


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FILE NAME: D:\2021\1210457\Cad\02 Design\CADD_Sheets\07747559-ht-09\07_6th_street.dgn

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	25
SIGN PANEL - TYPE 2	SQ FT	66
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	138
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	121
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	650
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	59
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	263
UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	10
HANDHOLE, COMPOSITE CONCRETE	EACH	4
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	1
GULFBOX JUNCTION	EACH	8
GULFBOX JUNCTION REMOVAL	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	1193
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1799
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2256
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1525
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C	FOOT	748
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1467
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 1C	FOOT	78
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	555
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	8
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	48
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	14
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	1323
CONFIRMATION BEACON	EACH	4
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
REMOVE LUMINAIRE, COMPLETE	EACH	2
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

THE UTILITIES SHOWN ARE THE BEST REPRESENTATION
OF THEIR LOCATIONS AT THE TIME OF THIS SURVEY.
THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE
UTILITIES LOCATED PRIOR TO CONSTRUCTION.



MODEL: Default
FILE NAME: D:\2021\12\04\57\CD\03_Design\CADD_Sheets\0774759-ht-ex-utility-08_logan.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**
380 SHEPARD DRIVE
EUGEN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 18400889

USER NAME = nhalan

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF IL 16 (CHARLESTON AVE) & LOGAN STREET
EXISTING UTILITY LAYOUT

SCALE: 1"=30'

SHEET 58 OF 88 SHEETS

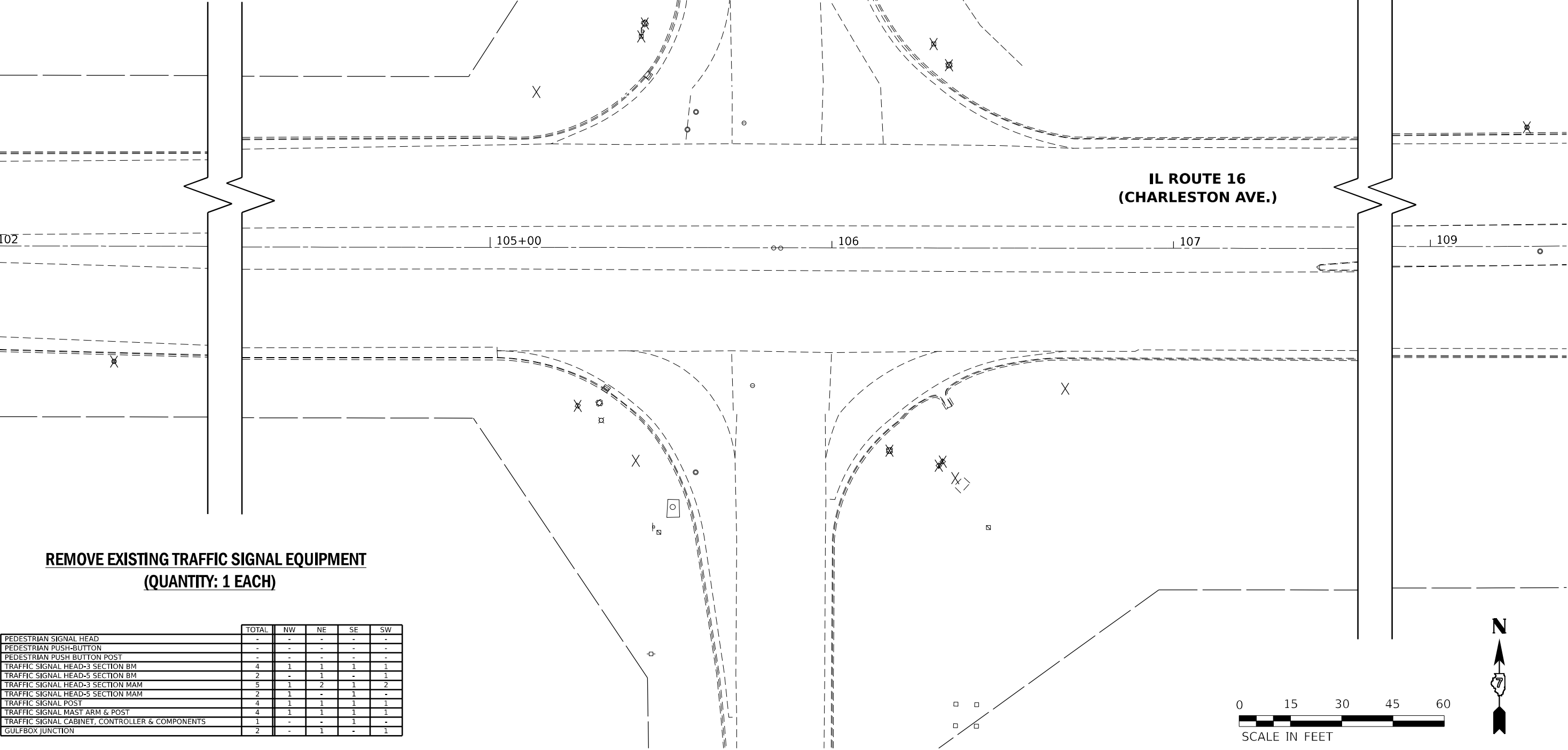
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	50ZR5-4	COLES	264	203
CONTRACT NO. 74759				
		ILLINOIS	FED. AID PROJECT	

REMOVAL ITEMS

		TOTAL	NW	NE	SE	SW
REMOVE EXISTING LIGHT POLE AND LUMINAIRE	EACH	1	-	-	-	1
REMOVE EXISTING HANDHOLE	EACH	3	1	1	-	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	-	-	1	-
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9	2	2	3	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT *	EACH	1	-	-	-	-

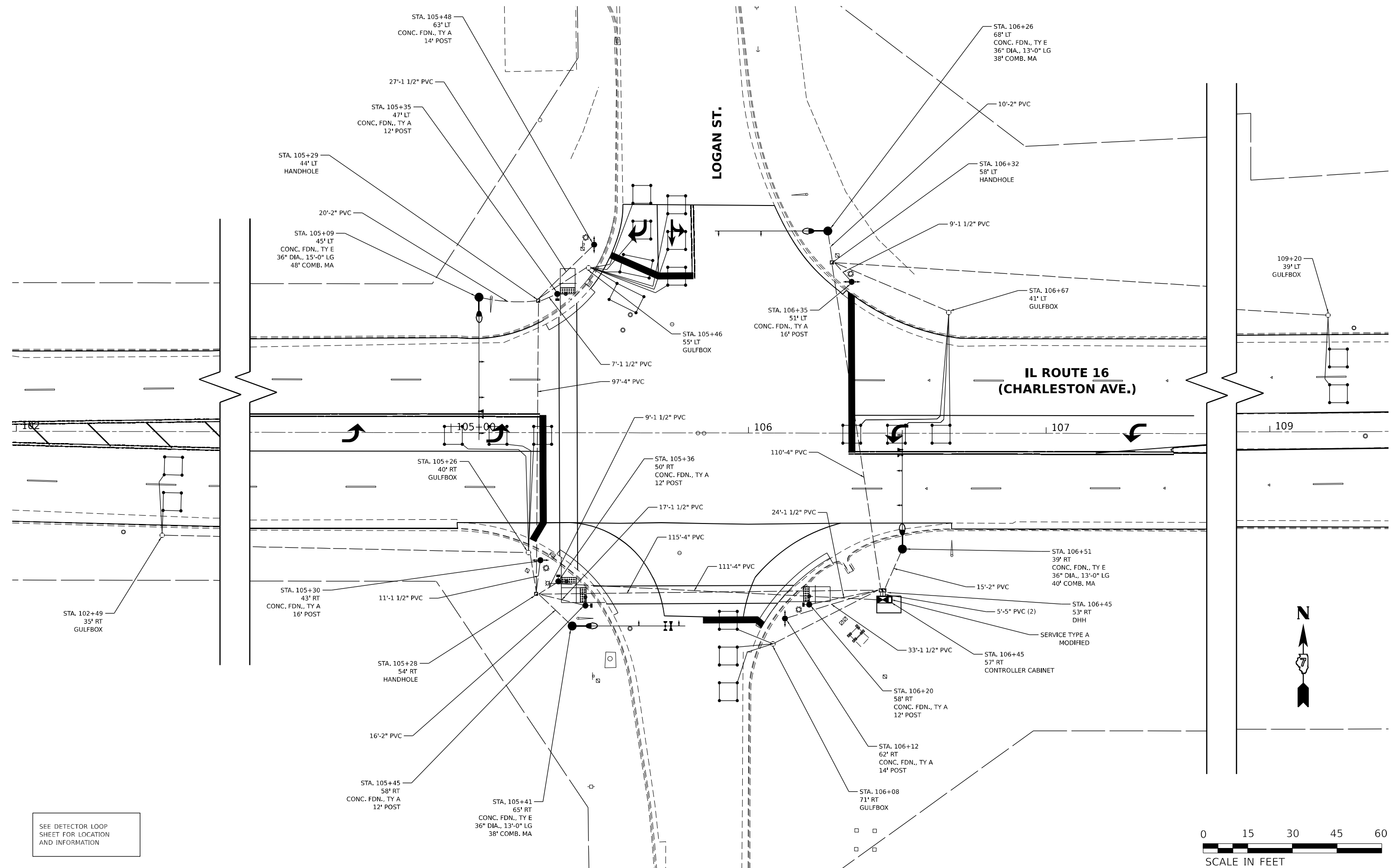
* SEE INDIVIDUAL ITEMS BELOW.



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

	TOTAL	NW	NE	SE	SW
PEDESTRIAN SIGNAL HEAD	-	-	-	-	-
PEDESTRIAN PUSH-BUTTON	-	-	-	-	-
PEDESTRIAN PUSH BUTTON POST	-	-	-	-	-
TRAFFIC SIGNAL HEAD-3 SECTION BM	4	1	1	1	1
TRAFFIC SIGNAL HEAD-5 SECTION BM	2	-	1	-	1
TRAFFIC SIGNAL HEAD-3 SECTION MAM	5	1	2	1	2
TRAFFIC SIGNAL HEAD-5 SECTION MAM	2	1	-	1	-
TRAFFIC SIGNAL POST	4	1	1	1	1
TRAFFIC SIGNAL MAST ARM & POST	4	1	1	1	1
TRAFFIC SIGNAL CABINET, CONTROLLER & COMPONENTS	1	-	-	1	-
GULFBOX JUNCTION	2	-	1	-	1

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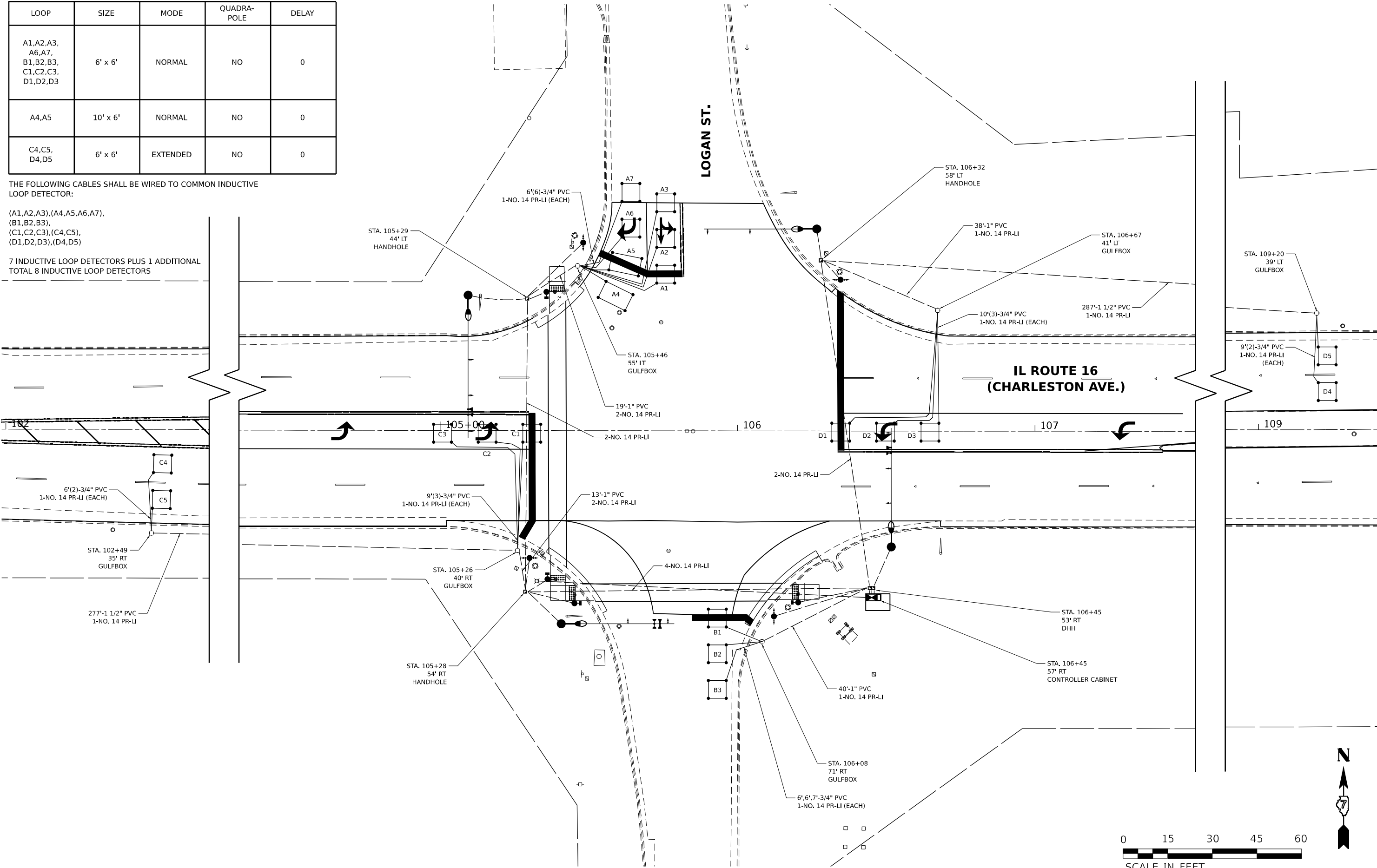


LOOP	SIZE	MODE	QUADRA- POLE	DELAY
A1,A2,A3, A6,A7, B1,B2,B3, C1,C2,C3, D1,D2,D3	6' x 6'	NORMAL	NO	0
A4,A5	10' x 6'	NORMAL	NO	0
C4,C5, D4,D5	6' x 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:

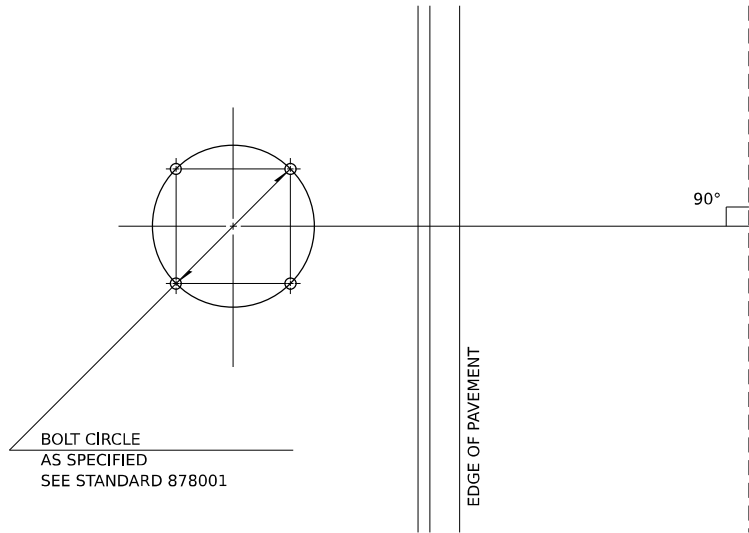
(A1,A2,A3),(A4,A5,A6,A7),
(B1,B2,B3),
(C1,C2,C3),(C4,C5),
(D1,D2,D3),(D4,D5)

7 INDUCTIVE LOOP DETECTORS PLUS 1 ADDITIONAL
TOTAL 8 INDUCTIVE LOOP DETECTORS

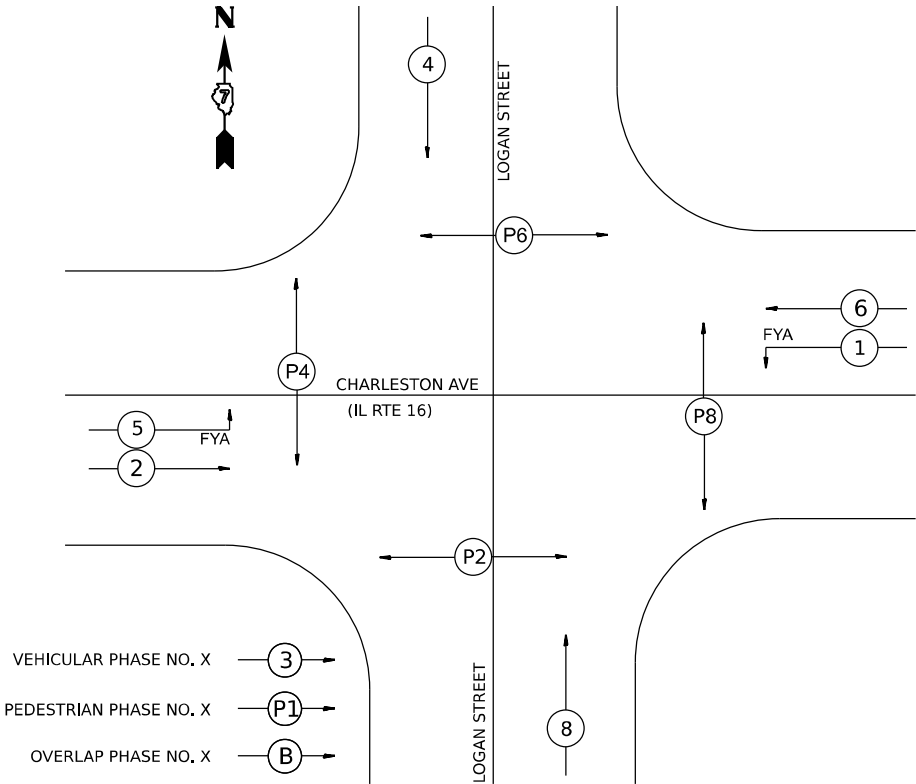


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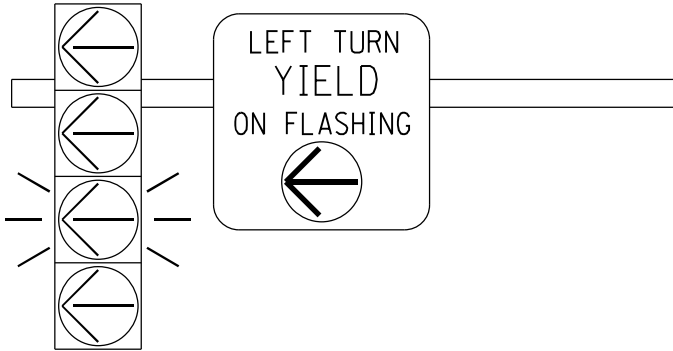
 HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELEM, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / SE CORP. 184000959	USER NAME = nhalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & LOGAN STREET DETECTOR LOOPS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					0325	50ZR5-4	COLES	264	207
	PLOT SCALE = 30,0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 74759				
	PLOT DATE = 7/5/2023	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE: 1"=30'	SHEET 62	OF 88 SHEETS	STA.	TO STA.			



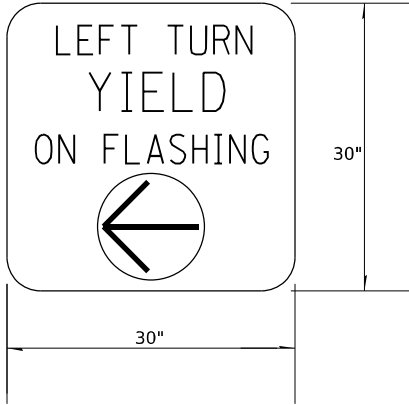
DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN



PHASE DESIGNATION DIAGRAM

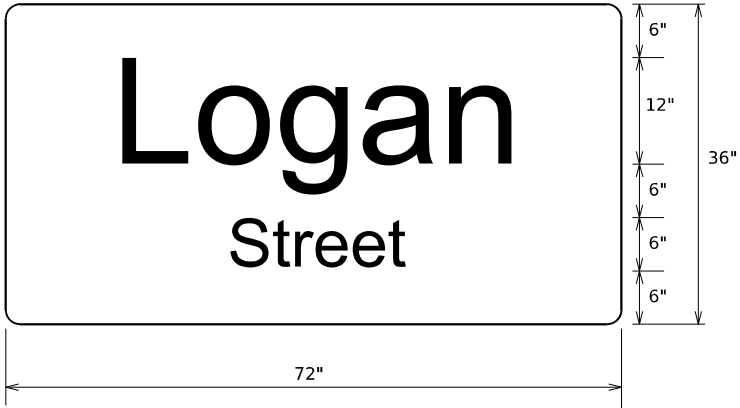


- SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
- AP SHEETING.
- SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
- ILLINOIS STANDARD R10-I109a SIGN.



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 105+09 45' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 106+51 39' RT)

- SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
- AP SHEETING.
- UPPER/LOWER CASE LETTERS, HIGHWAY D.



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 105+09 45' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 106+51 39' RT)

- SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
- AP SHEETING.
- UPPER/LOWER CASE LETTERS, HIGHWAY D.



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 105+41 65' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 106+26 68' LT)

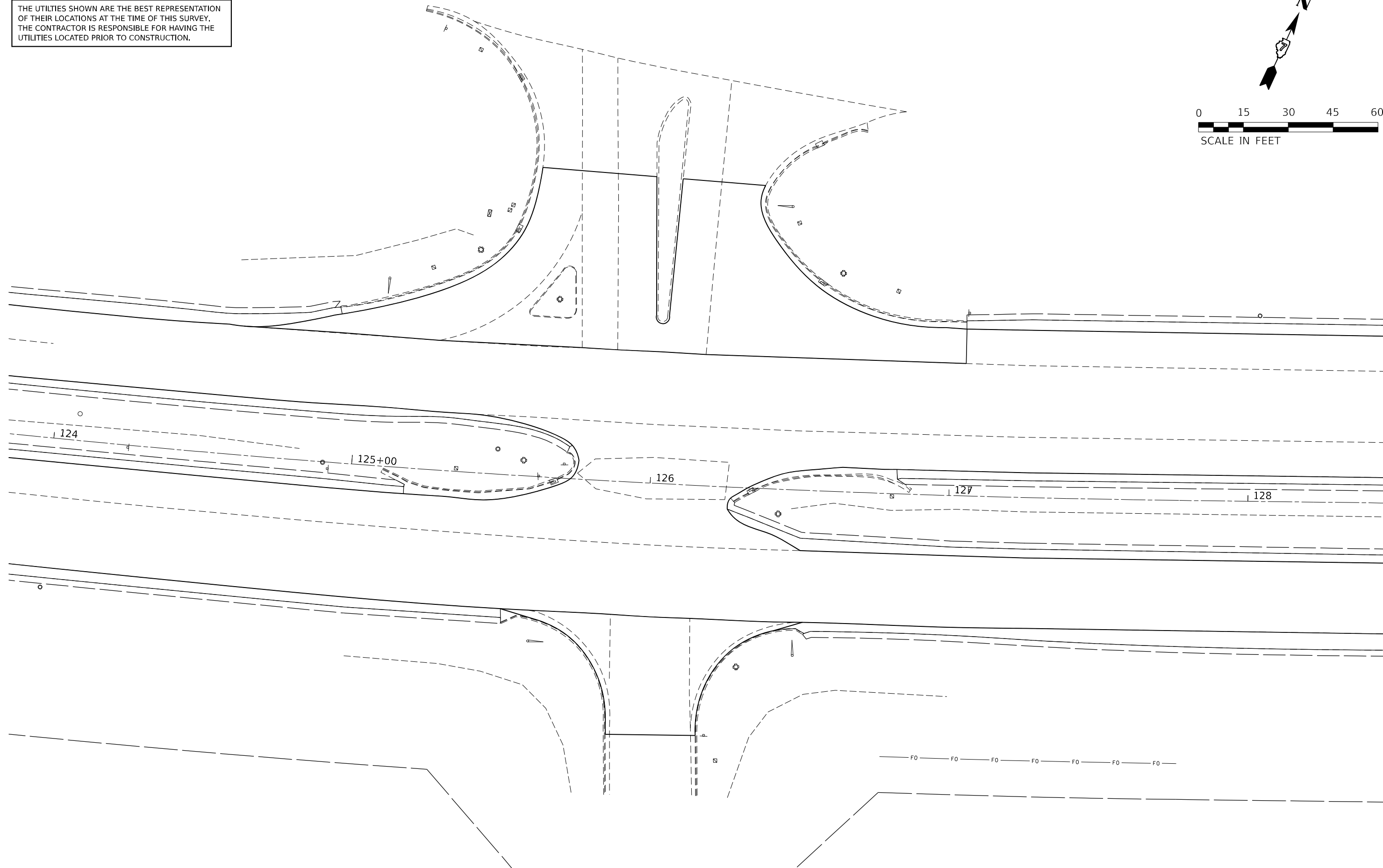
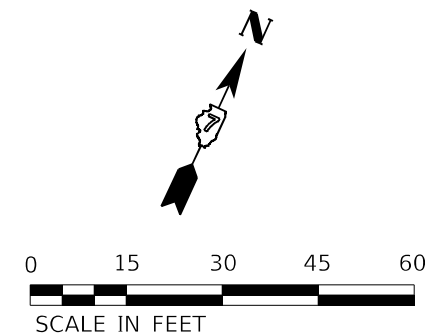
SIGN PANEL DETAILS

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ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	13
SIGN PANEL - TYPE 2	SQ FT	78
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	142
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	110
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	812
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	61
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	322
UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	10
HANDHOLE, COMPOSITE CONCRETE	EACH	3
DOUBLE HANDHOLE, COMPOSITE CONCRETE	EACH	1
GULFBOX JUNCTION	EACH	6
GULFBOX JUNCTION REMOVAL	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 8	FOOT	836
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	4
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1230
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2361
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	740
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C	FOOT	613
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1503
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 1C	FOOT	133
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	590
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	1014
CONFIRMATION BEACON	EACH	4
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4

HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / C.E. CORP. 18-000059 	USER NAME = nrlaban	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & LOGAN ST BILL OF MATERIALS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
	PLOT SCALE = 40,0000' = 1" =	CHECKED -	REVISED -							0325	50ZR5-4	COLES	264
	PLOT DATE = 7/5/2023	DATE -	REVISED -		CONTRACT NO. 74759								
	SCALE: N.T.S. SHEET 65 OF 88 SHEETS STA. TO STA.												

THE UTILITIES SHOWN ARE THE BEST REPRESENTATION OF THEIR LOCATIONS AT THE TIME OF THIS SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE UTILITIES LOCATED PRIOR TO CONSTRUCTION.



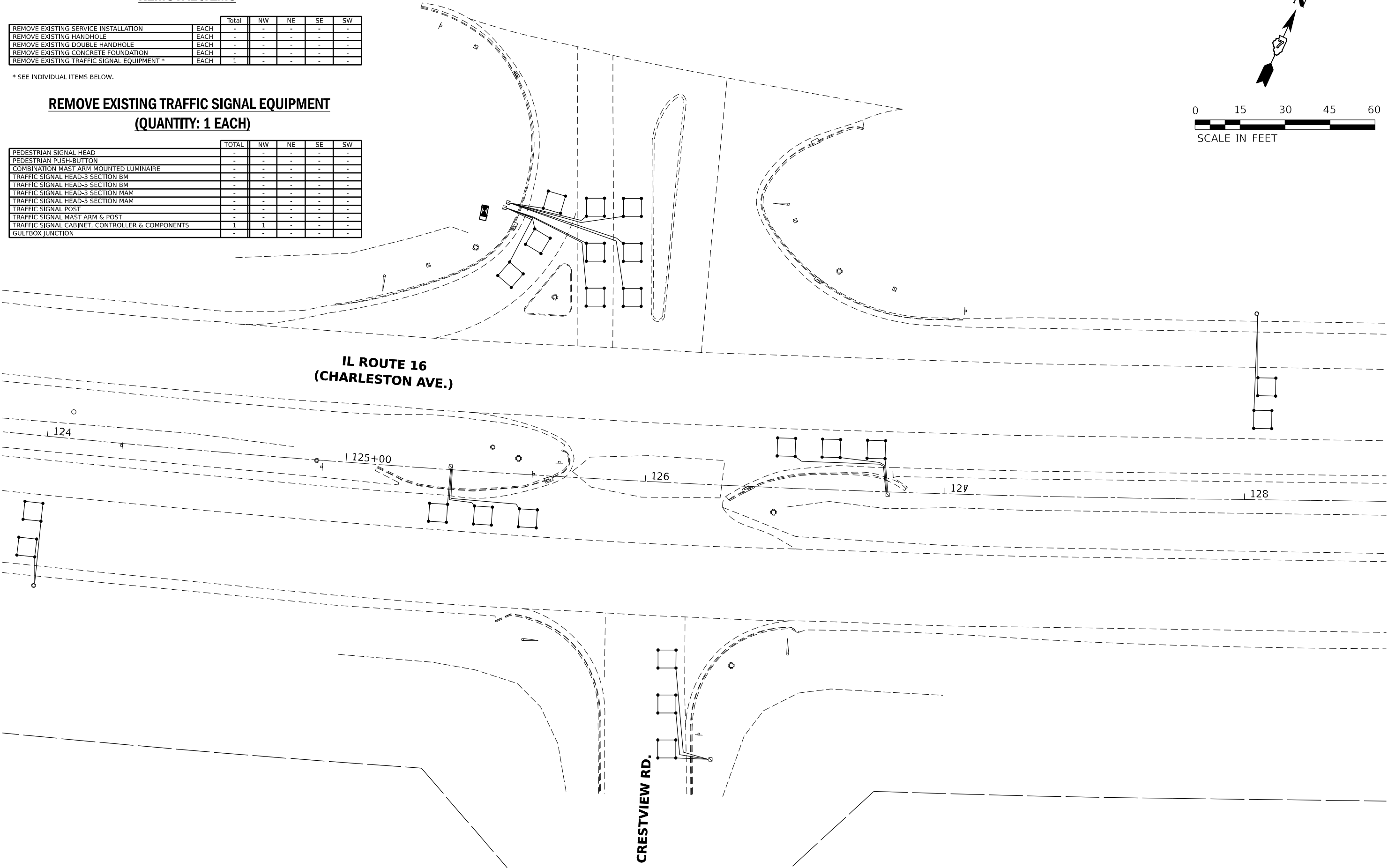
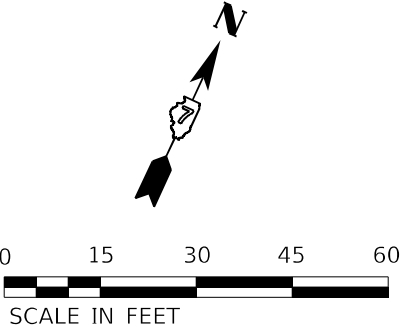
REMOVAL ITEMS

		Total	NW	NE	SE	SW
REMOVE EXISTING SERVICE INSTALLATION	EACH	-	-	-	-	-
REMOVE EXISTING HANDHOLE	EACH	-	-	-	-	-
REMOVE EXISTING DOUBLE HANDHOLE	EACH	-	-	-	-	-
REMOVE EXISTING CONCRETE FOUNDATION	EACH	-	-	-	-	-
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT *	EACH	1	-	-	-	-

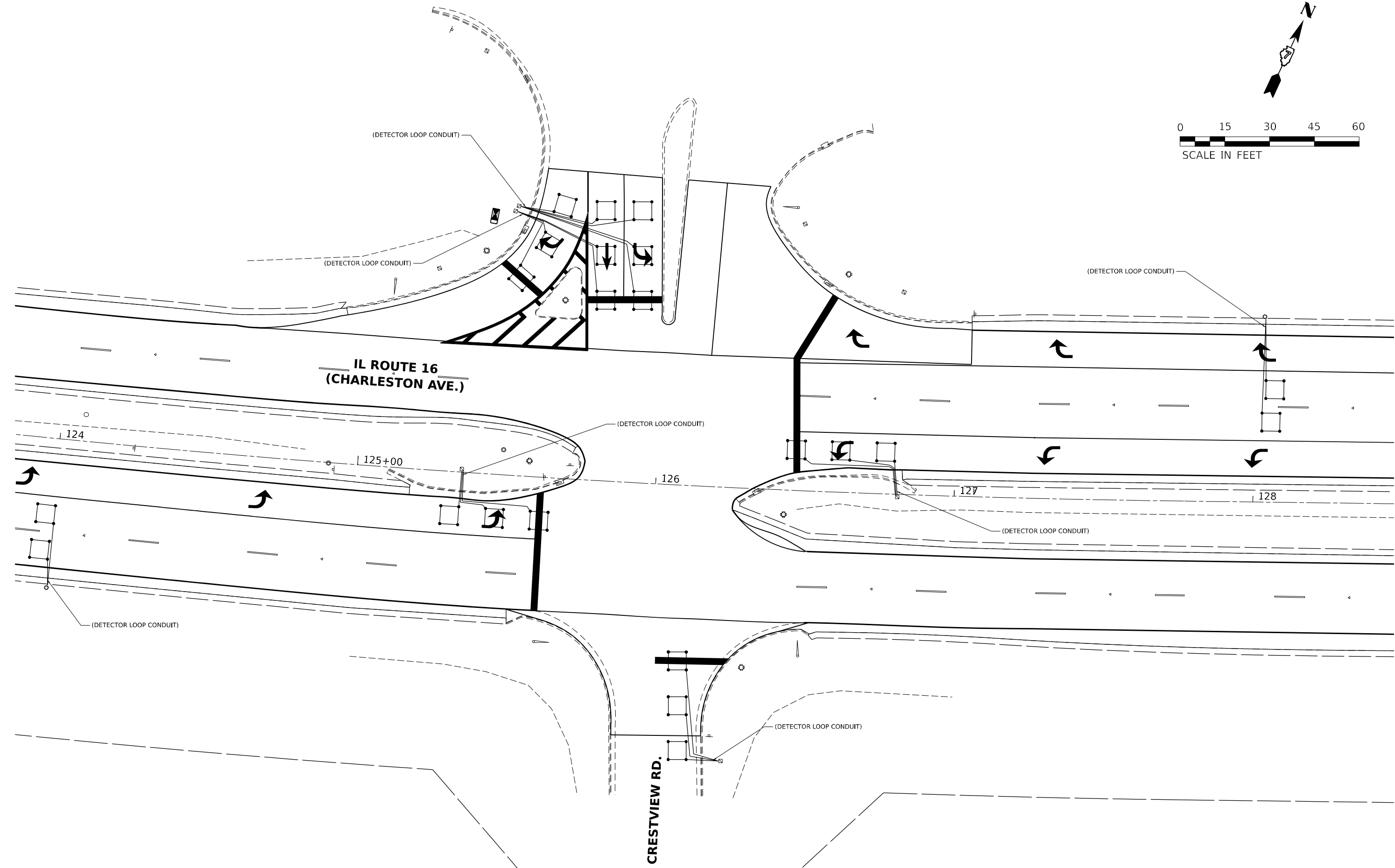
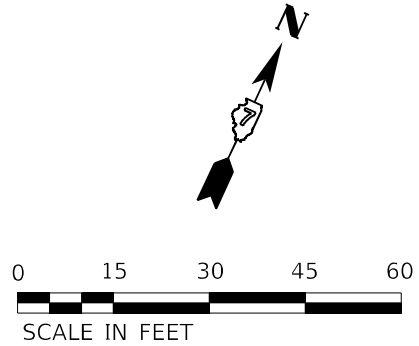
* SEE INDIVIDUAL ITEMS BELOW.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

	TOTAL	NW	NE	SE	SW
PEDESTRIAN SIGNAL HEAD	-	-	-	-	-
PEDESTRIAN PUSH-BUTTON	-	-	-	-	-
COMBINATION MAST ARM MOUNTED LUMINAIRE	-	-	-	-	-
TRAFFIC SIGNAL HEAD-3 SECTION BM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-5 SECTION BM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-3 SECTION MAM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-5 SECTION MAM	-	-	-	-	-
TRAFFIC SIGNAL POST	-	-	-	-	-
TRAFFIC SIGNAL MAST ARM & POST	-	-	-	-	-
TRAFFIC SIGNAL CABINET, CONTROLLER & COMPONENTS	1	1	-	-	-
GULFBOX JUNCTION	-	-	-	-	-



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**HAMPTON, LENZINI AND RENWICK, INC.**
380 SHEPARD DRIVE
ELEGANT, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
L.S. / P.E. / S.E. CORP. 184,000,000

USER NAME	= nhalan
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVIS	-
REVIS	-
REVIS	-
REVIS	-

PLOT SCALE	= 30,0000 * / in.
PLOT DATE	= 7/5/2023

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVIS	-
REVIS	-
REVIS	-
REVIS	-

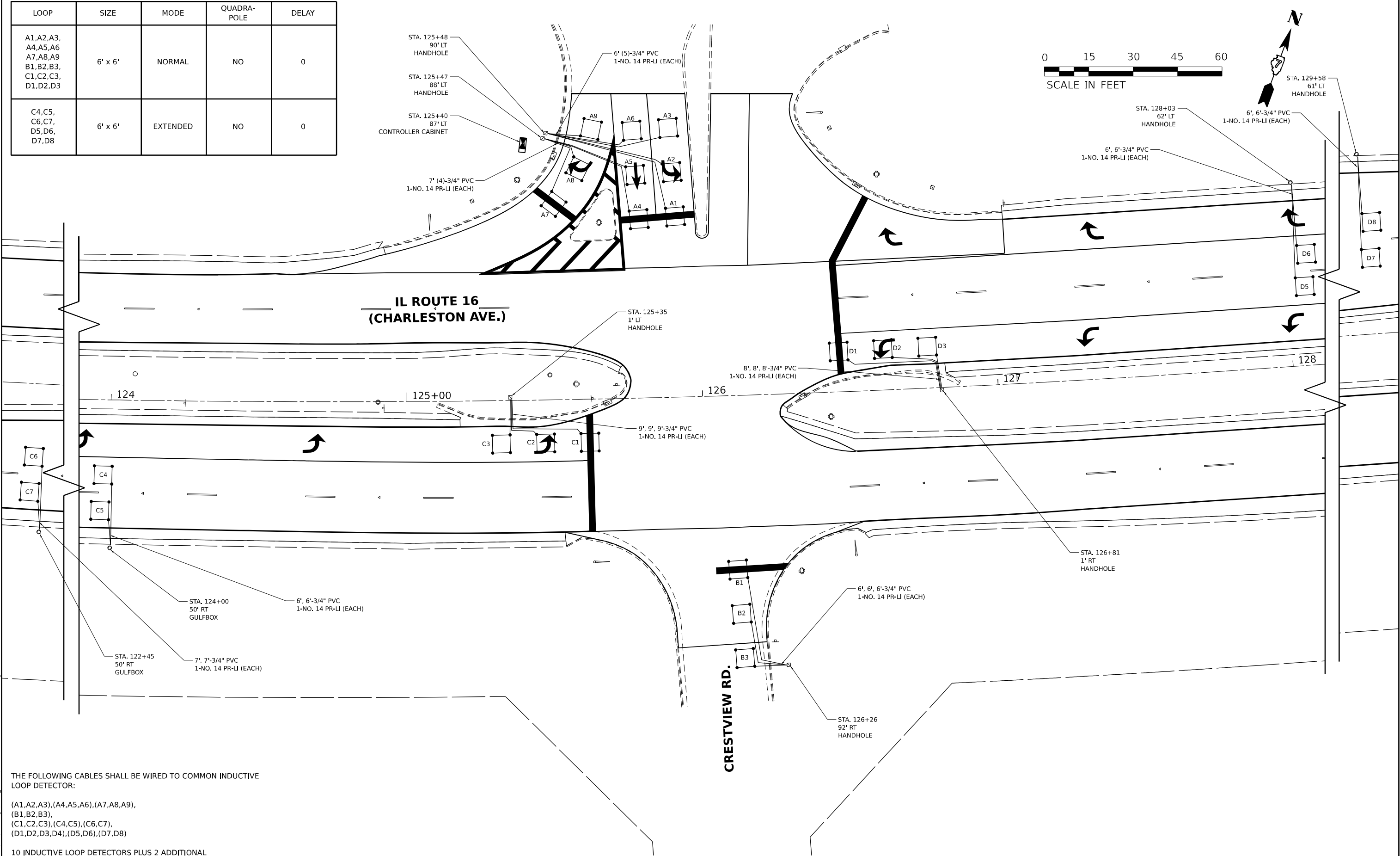
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF IL 16 (CHARLESTON AVE) & CRESTVIEW RD
CABLE LAYOUT

SCALE:	1"=30'	SHEET 69	OF 88 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	50ZR5-4	COLES	264	214
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

LOOP	SIZE	MODE	QUADRA- POLE	DELAY
A1,A2,A3, A4,A5,A6 A7,A8,A9 B1,B2,B3, C1,C2,C3, D1,D2,D3	6' x 6'	NORMAL	NO	0
C4,C5, C6,C7, D5,D6, D7,D8	6' x 6'	EXTENDED	NO	0



THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:

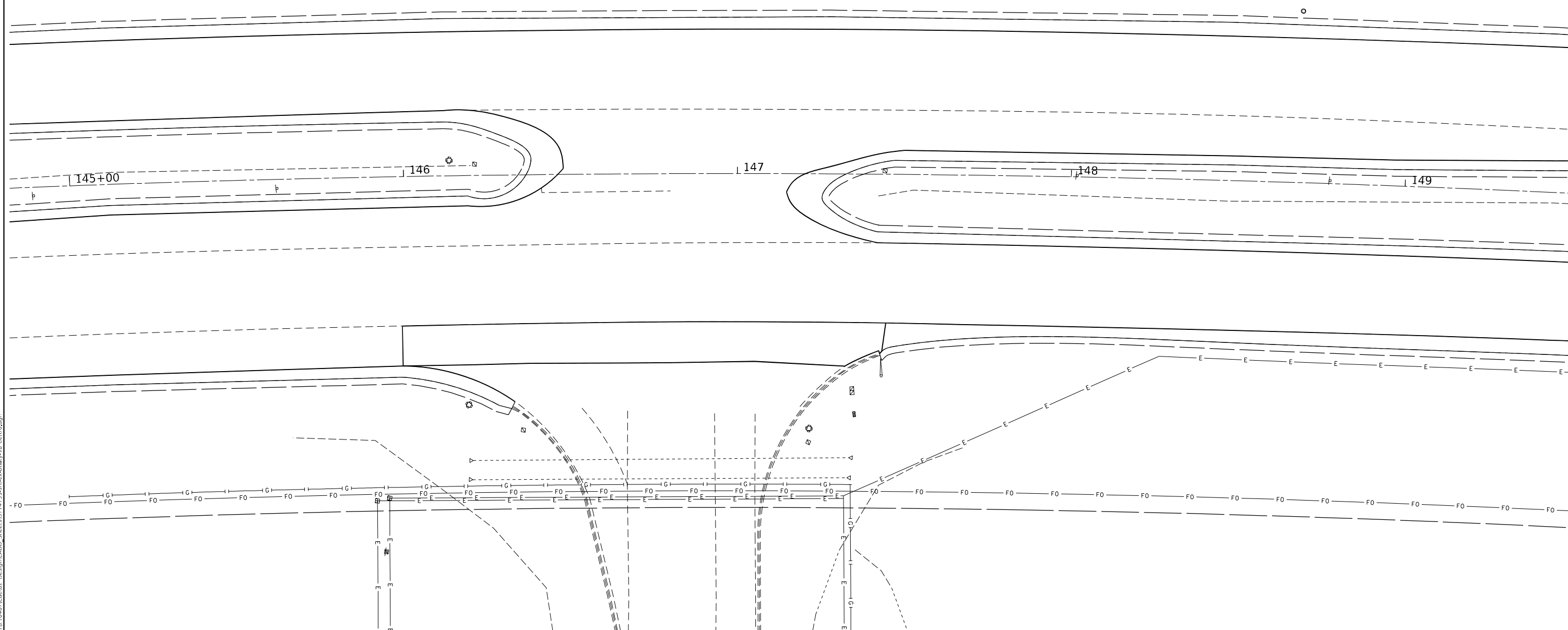
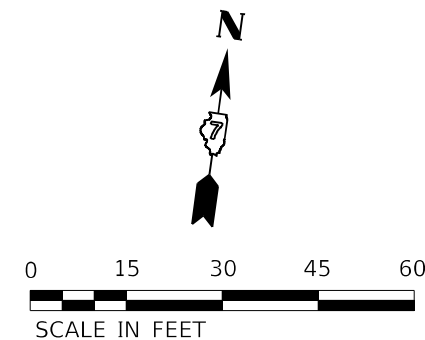
(A1,A2,A3),(A4,A5,A6),(A7,A8,A9),
(B1,B2,B3),
(C1,C2,C3),(C4,C5),(C6,C7),
(D1,D2,D3,D4),(D5,D6),(D7,D8)

10 INDUCTIVE LOOP DETECTORS PLUS 2 ADDITIONAL
TOTAL 12 INDUCTIVE LOOP DETECTORS

 HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE EUGEN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 18400899	USER NAME = nhalan	DESIGNED - NAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & CRESTVIEW ROAD DETECTOR LOOPS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 30,0000 ' / in.	DRAWN - NAH	REVISED -					0325	502785-4	COLES	264	215
	PLOT DATE = 7/5/2023	CHECKED -	REVISED -		SCALE: 1"=30'			CONTRACT NO. 74759				
		DATE - 7/5/2023	REVISED -		SHEET 70	OF 88 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			



THE UTILITIES SHOWN ARE THE BEST REPRESENTATION OF THEIR LOCATIONS AT THE TIME OF THIS SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE UTILITIES LOCATED PRIOR TO CONSTRUCTION.



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HAMPTON, LENZINI AND RENWICK, INC. 360 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 181-000999	USER NAME = nhalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & DETTRO DR EXISTING UTILITY LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 30,000' = 1" = 30,000' * 1/4" = 1"	CHECKED -	REVISED -						0323	50ZR5-4	COLES	264	218
	PLOT DATE = 7/5/2023	DATE -	REVISED -		CONTRACT NO. 74759								
					SCALE: 1"=30'	SHEET 73	OF 88	SHEETS	STA.	TO STA.			

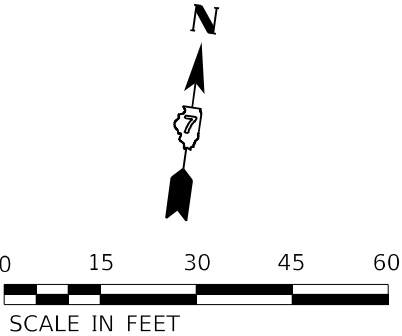
REMOVAL ITEMS

REMOVE EXISTING SERVICE INSTALLATION	EACH	TOTAL	NW	NE	SE	SW
REMOVE EXISTING HANDHOLE	EACH	-	-	-	-	-
REMOVE EXISTING DOUBLE HANDHOLE	EACH	-	-	-	-	-
REMOVE EXISTING CONCRETE FOUNDATION	EACH	-	-	-	-	-
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT *	EACH	1	-	-	-	-

* SEE INDIVIDUAL ITEMS BELOW.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

PEDESTRIAN SIGNAL HEAD	TOTAL	NW	NE	SE	SW
PEDESTRIAN PUSH-BUTTON	-	-	-	-	-
COMBINATION MAST ARM MOUNTED LUMINAIRE	-	-	-	-	-
TRAFFIC SIGNAL HEAD-3 SECTION BM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-5 SECTION BM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-3 SECTION MAM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-5 SECTION MAM	-	-	-	-	-
TRAFFIC SIGNAL POST	-	-	-	-	-
TRAFFIC SIGNAL MAST ARM & POST	-	-	-	-	-
TRAFFIC SIGNAL CABINET, CONTROLLER & COMPONENTS	1	-	-	1	-
GULFBOX JUNCTION	-	-	-	-	-



IL ROUTE 16
(CHARLESTON AVE.)

DETTRO DR.

MODEL: Default
FILE NAME: 10/2021/12/0457/Cen/02_Design/CADD_Sheets/D774759-ht-removal-10_detdro.dgn



HAMPTON, LENZINI AND RENWICK, INC.

380 SHEPARD DRIVE
ELEGAN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
L.S. / P.E. / S.E. CORP. 18400889

USER NAME = nhalan

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

INTERSECTION OF IL 16 (CHARLESTON AVE) & DETTRO DR

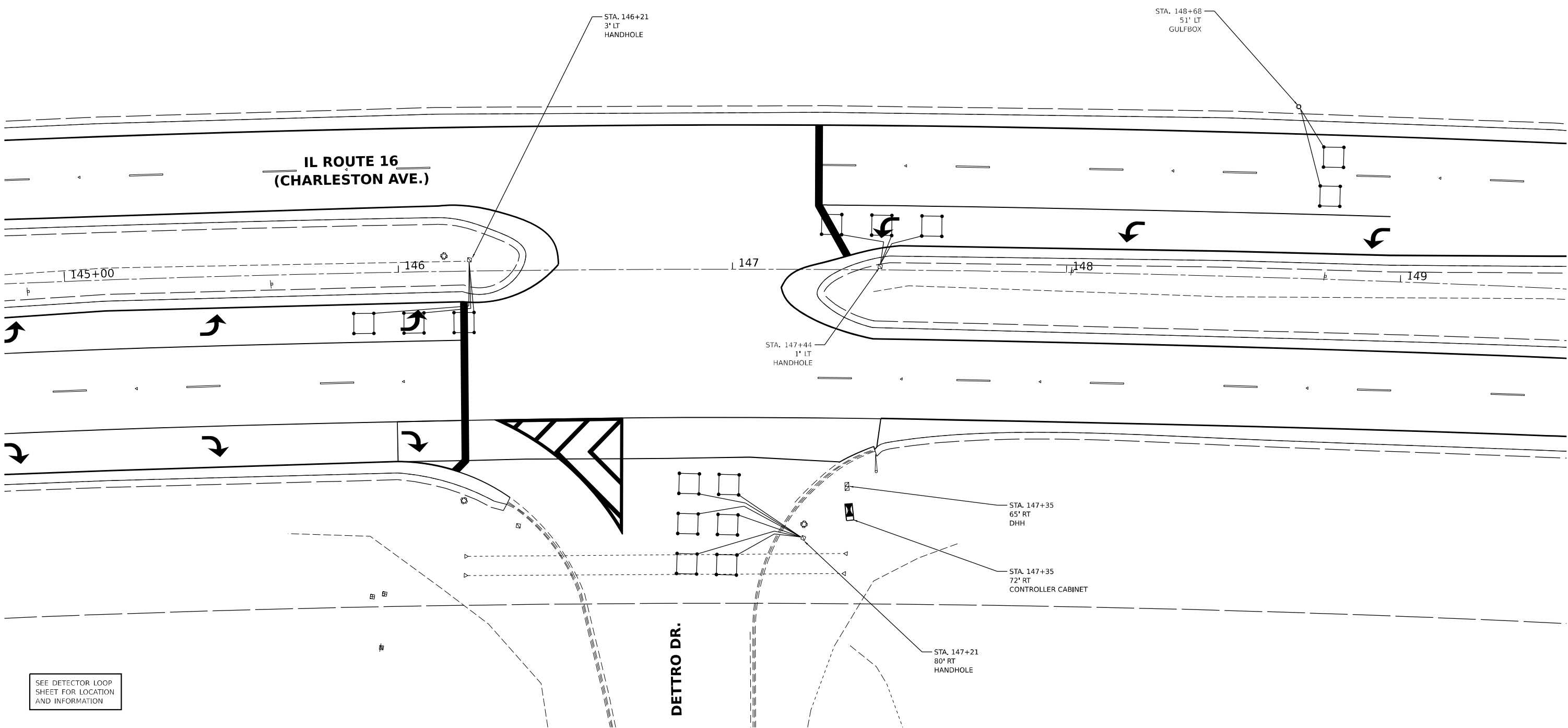
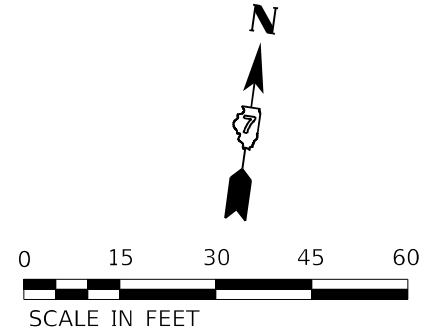
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: 1"=30'

SHEET 74 OF 88 SHEETS

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	50ZR5-4	COLES	264	219
CONTRACT NO. 74759				
		ILLINOIS	FED. AID PROJECT	



MODEL: Default
FILE NAME: I:\2023\12\04\67\CD\03_Design\CADD_Sheets\0774759-ht-signal-10_dettro.dgn

 HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE EUGEN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 18400889	USER NAME = nhalan	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 30,0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/5/2023	DATE -	REVISED -

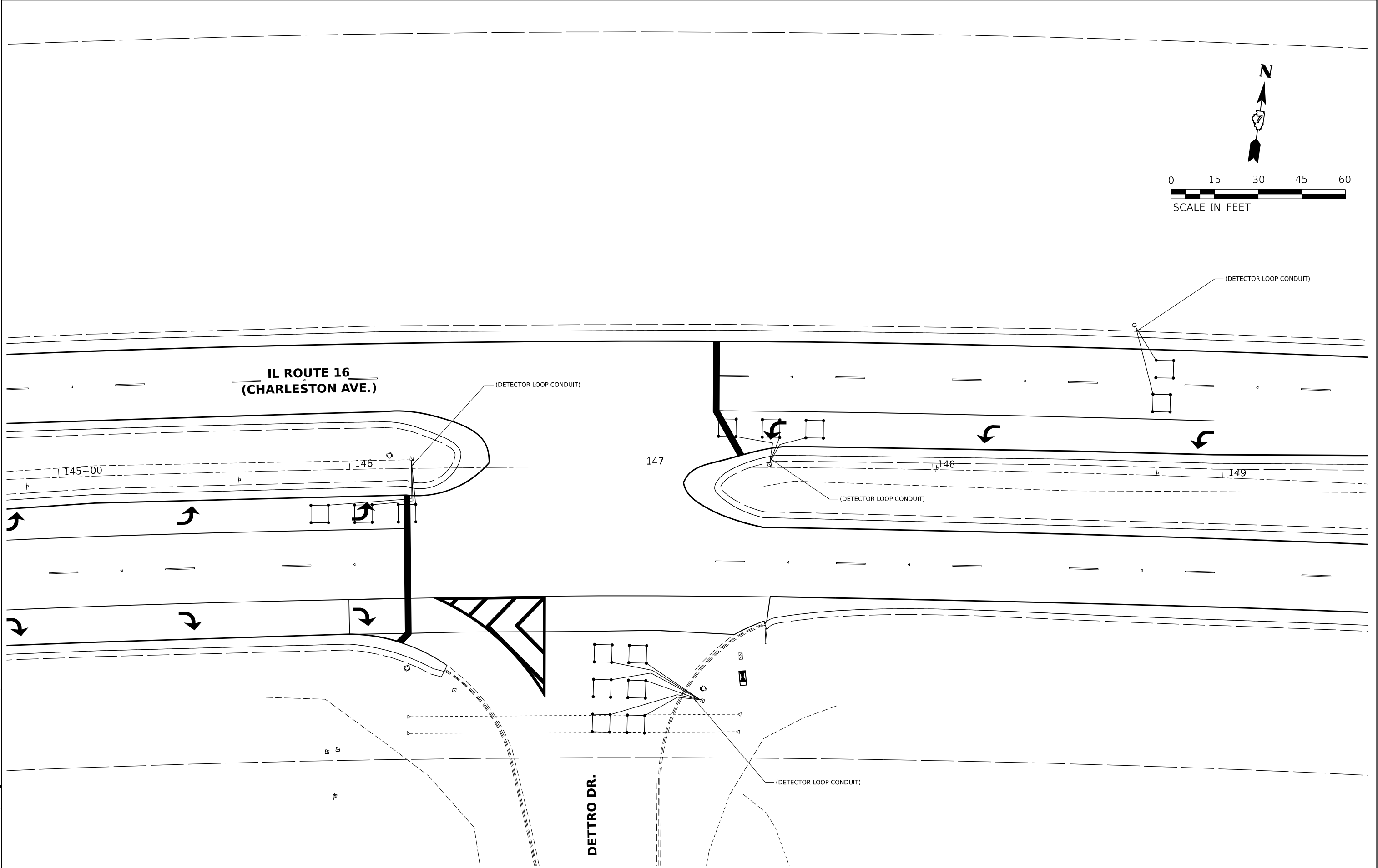
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF IL 16 (CHARLESTON AVE) & DETTRO DR
SIGNAL LAYOUT

SCALE: 1"=30' SHEET 75 OF 88 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	50ZR5-4	COLES	264	220
CONTRACT NO. 74759				
		ILLINOIS	FED. AID PROJECT	

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HAMPTON, LENZINI AND RENWICK, INC. 580 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 18400889	USER NAME = nhalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & DETTRO DR CABLE LAYOUT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 30,0000 * / in.	DRAWN -	REVISED -					0325	50ZR5-4	COLES	264	221
	PLOT DATE = 7/5/2023	CHECKED -	REVISED -		SCALE: 1"=30' SHEET 76 OF 88 SHEETS STA. TO STA.			CONTRACT NO. 74759				
	DATE -	REVISD -	REVISED -					ILLINOIS FED. AID PROJECT				



MODEL: Default
FILE NAME: C:\2021\1210457\Car03_Design\CADD_Sheets\0774759-ht-dty\10_detro.dgn



HAMPTON, LENZINI AND RENWICK, INC.

580 SHEPARD DRIVE
EUGEN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 18400889

USER NAME	= nthalan
PLOT SCALE	= 40,0000 " / in.
PLOT DATE	= 7/5/2023

DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
---	--

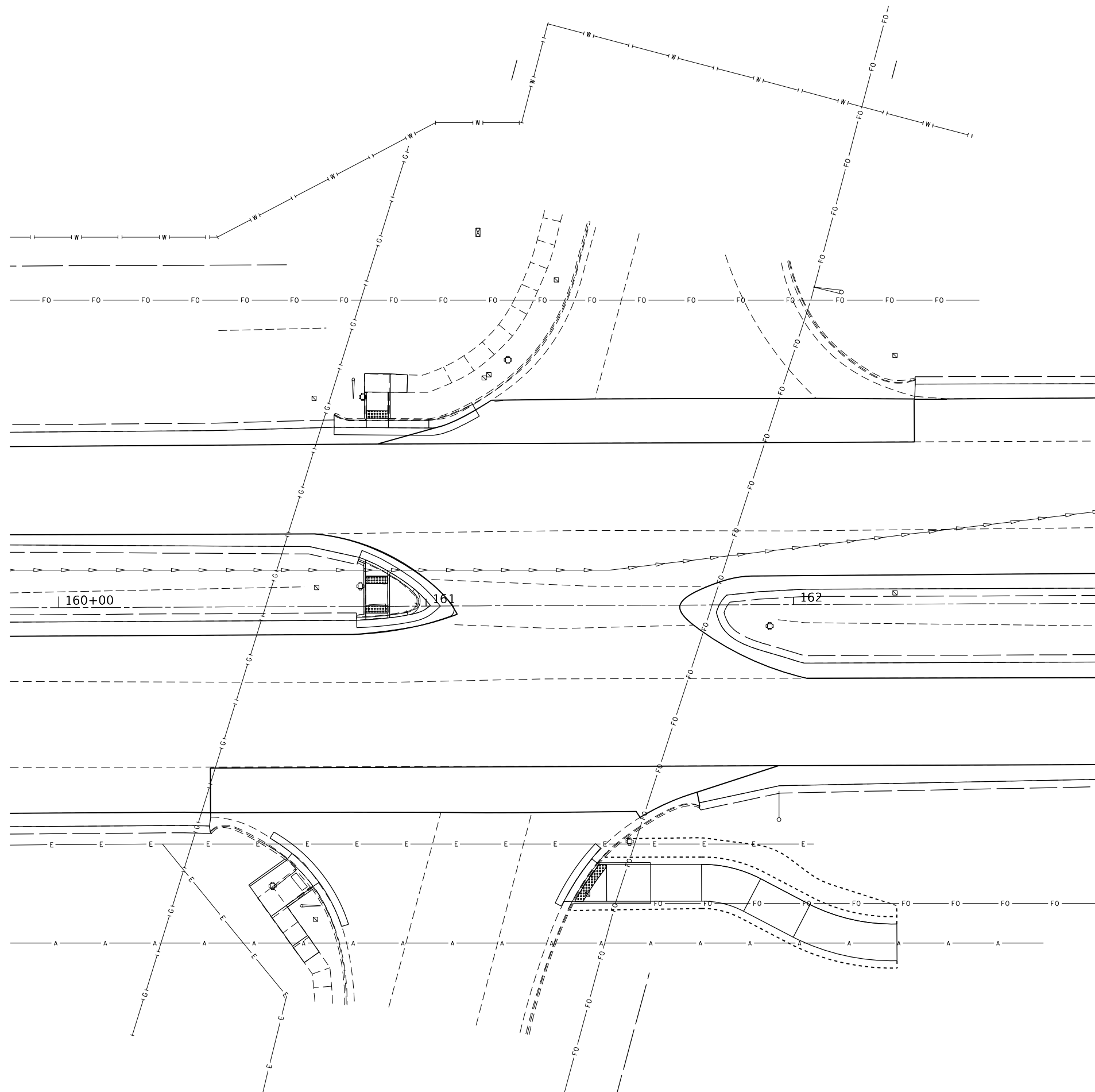
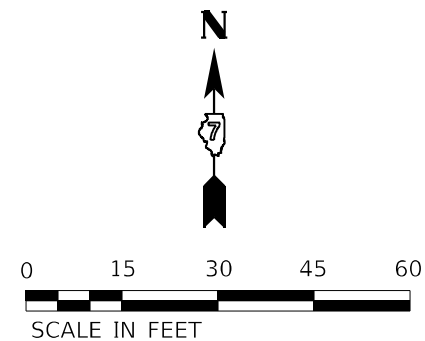
INTERSECTION OF IL 16 (CHARLESTON AVE) & DETTRO DR BILL OF MATERIALS	
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SCALE: N.T.S.	SHEET 79 OF 88 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	50ZR5-4	COLES	264	224
CONTRACT NO. 74759				
ILLINOIS		FED. AID PROJECT		

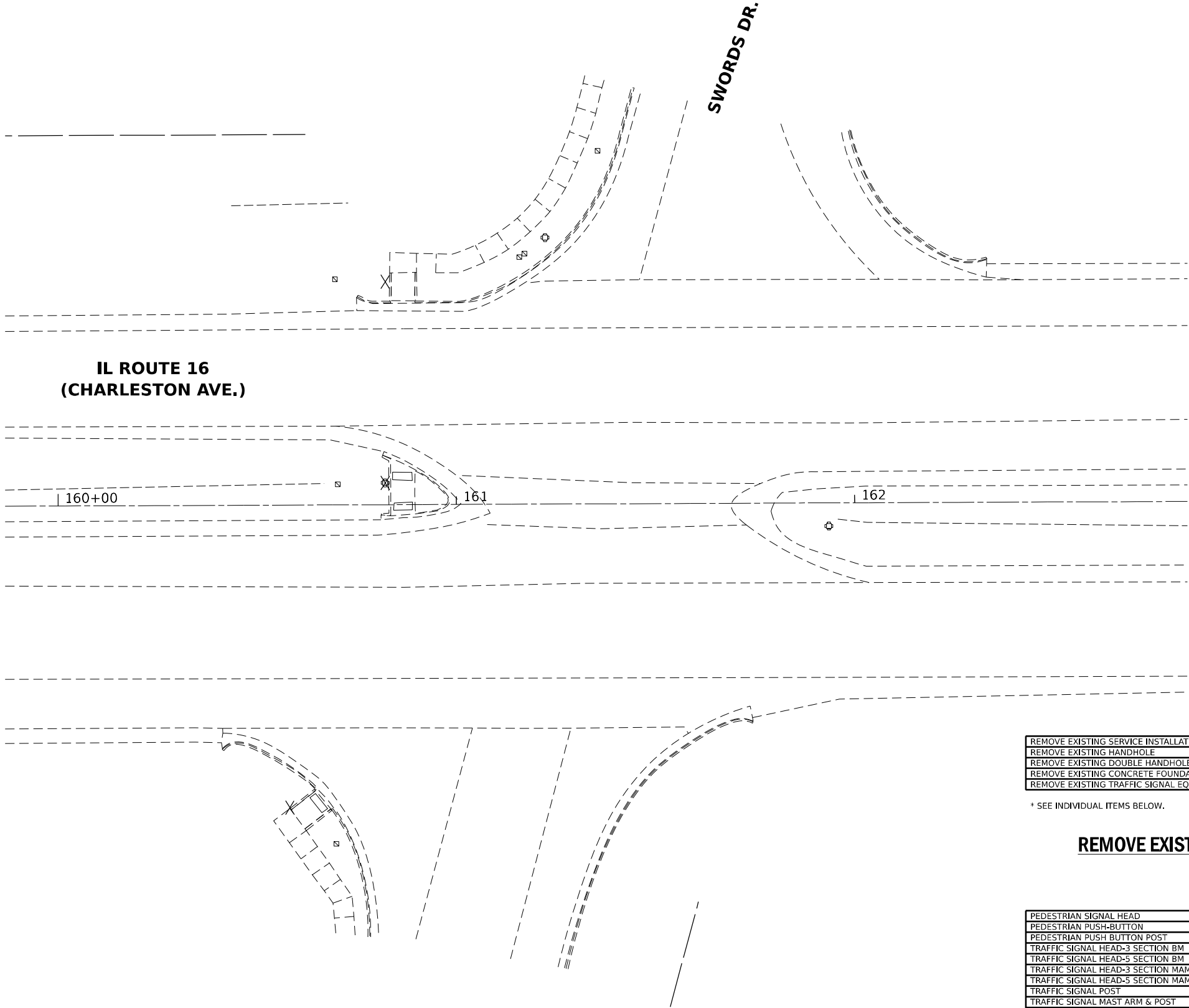
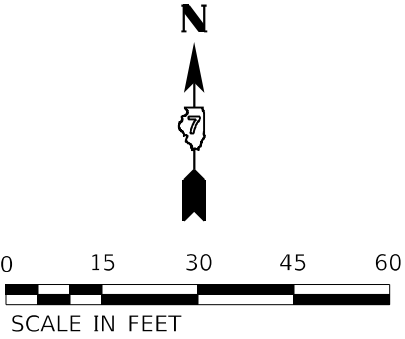
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	147
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	147
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	5
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	817
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

THE UTILITIES SHOWN ARE THE BEST REPRESENTATION OF THEIR LOCATIONS AT THE TIME OF THIS SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE UTILITIES LOCATED PRIOR TO CONSTRUCTION.



MODEL: Default
FILE NAME: P:\2021\210467\Cad\02 Design\CADD Sheets\0774759-sht-ex-utility-11 swords.dgn

 HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 10-000959	USER NAME = nhalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & SWORDS DRIVE EXISTING UTILITY LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 30,0000" = 1' in.	DRAWN -	REVISED -						0325	50ZR5-4	COLES	264	225
	PLOT DATE = 7/5/2023	CHECKED -	REVISED -		CONTRACT NO. 74759								
		REVISED -											
				SCALE: 1"=30'	SHEET 80	OF 88	SHEETS	STA.	TO STA.				



REMOVAL ITEMS

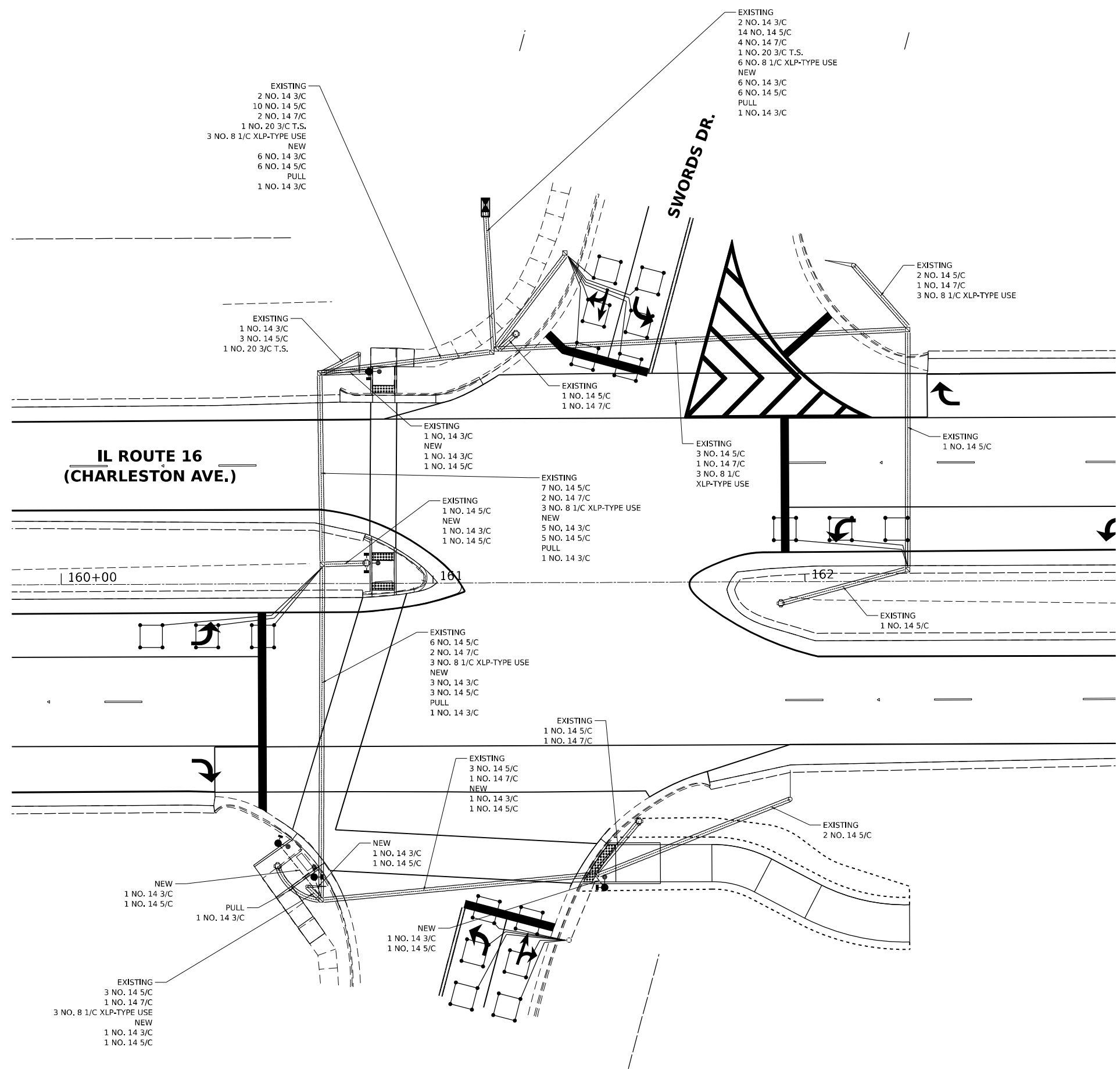
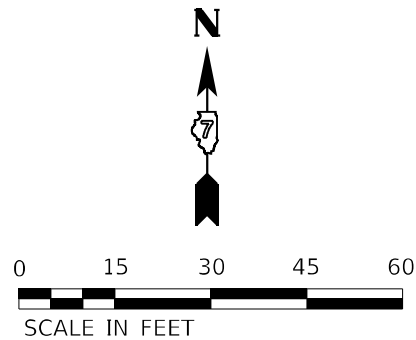
		TOTAL	NW	NE	SE	SW
REMOVE EXISTING SERVICE INSTALLATION	EACH	-	-	-	-	-
REMOVE EXISTING HANDHOLE	EACH	-	-	-	-	-
REMOVE EXISTING DOUBLE HANDHOLE	EACH	-	-	-	-	-
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	-	-	-	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT *	EACH	1	-	-	-	-

* SEE INDIVIDUAL ITEMS BELOW.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

	TOTAL	NW	NE	SE	SW
PEDESTRIAN SIGNAL HEAD	2	1	-	-	1
PEDESTRIAN PUSH-BUTTON	2	1	-	-	1
PEDESTRIAN PUSH BUTTON POST	2	1	-	-	1
TRAFFIC SIGNAL HEAD-3 SECTION BM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-3 SECTION BM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-3 SECTION MAM	-	-	-	-	-
TRAFFIC SIGNAL HEAD-5 SECTION MAM	-	-	-	-	-
TRAFFIC SIGNAL POST	1	1	-	-	-
TRAFFIC SIGNAL MAST ARM & POST	-	-	-	-	-
TRAFFIC SIGNAL CABINET, CONTROLLER & COMPONENTS	-	-	-	-	-
GULFBOX JUNCTION	-	-	-	-	-

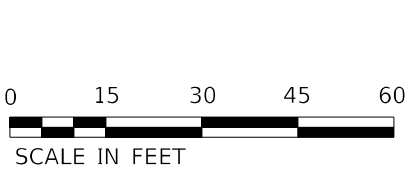
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MODEL: Default
FILE NAME: P:\2023\12\0457\City\Design\CADD_Sheets\0774759-ht-cable-11_swords.dgn

HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 18400889	USER NAME	= nhalan	DESIGNED	-	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & SWORDS DRIVE CABLE LAYOUT				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN	-	DRAWN	-	REVISED	-						0325	50ZR5-4	COLES	264	228
	PLOT SCALE	= 30,0000 * / in.	CHECKED	-	REVISED	-		CONTRACT NO. 74759								
	PLOT DATE	= 7/5/2023	DATE	-	REVISED	-		ILLINOIS FED. AID PROJECT								
	SCALE: 1"=30'							SHEET 83	OF 88 SHEETS	STA.	TO STA.					

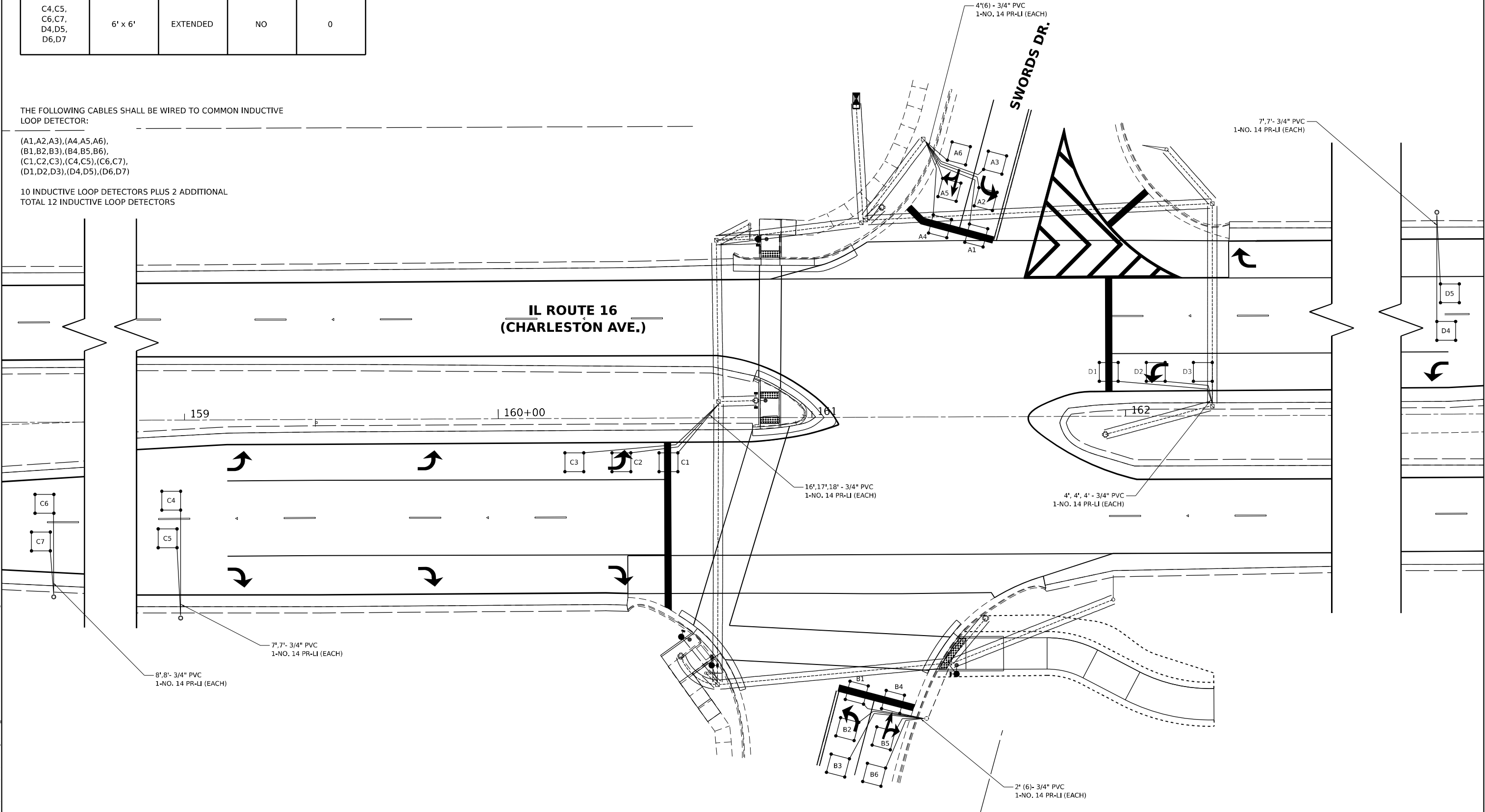
LOOP	SIZE	MODE	QUADRA- POLE	DELAY
A1,A2,A3, A4,A5,A6 B1,B2,B3, B4,B5,B6, C1,C2,C3, D1,D2,D3	6' x 6'	NORMAL	NO	0
C4,C5, C6,C7, D4,D5, D6,D7	6' x 6'	EXTENDED	NO	0



THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:

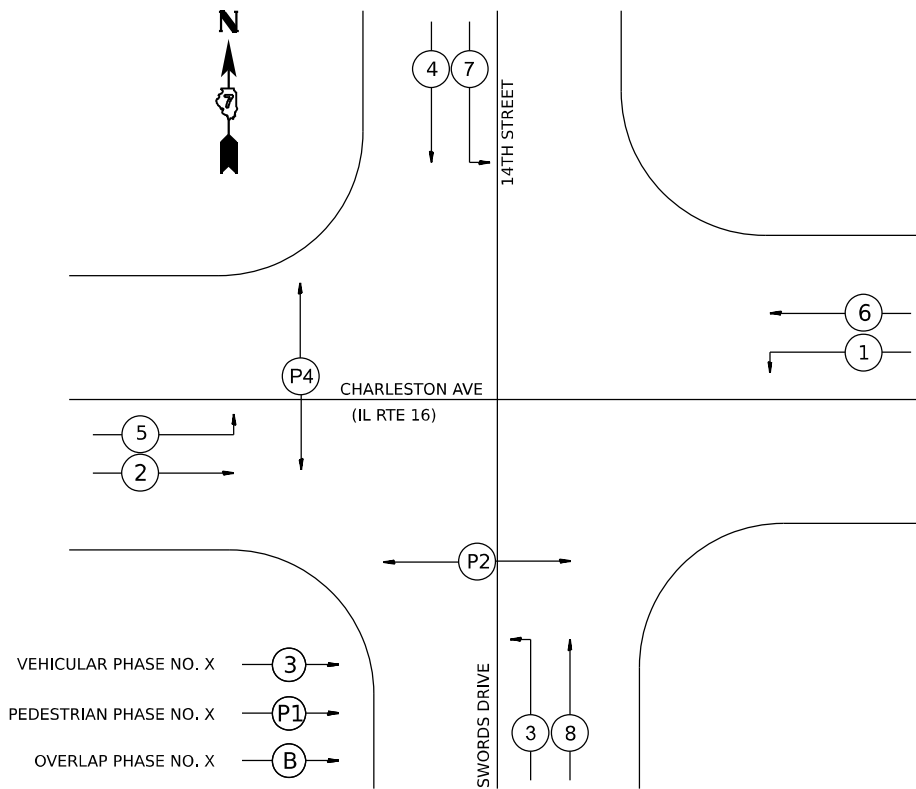
(A1,A2,A3),(A4,A5,A6),
(B1,B2,B3),(B4,B5,B6),
(C1,C2,C3),(C4,C5),(C6,C7),
(D1,D2,D3),(D4,D5),(D6,D7)

10 INDUCTIVE LOOP DETECTORS PLUS 2 ADDITIONAL
TOTAL 12 INDUCTIVE LOOP DETECTORS



MODEL: Default
FILE NAME: I:\2021\12\04\67\CA03_Design\CADD_Sheets\0774759-ht-detector-11_swords.dgn

 HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELEGANT, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 18400889	USER NAME = nhalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & SWORDS DRIVE DETECTOR LOOPS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISD -	REVISD -		0325	50ZR5-4	COLES	264	229				
	PLOT SCALE = 30,0000 ' / in.	CHECKED -	REVISD -		CONTRACT NO. 74759								
	PLOT DATE = 7/5/2023	DATE -	REVISD -		ILLINOIS FED. AID PROJECT								
						SCALE: 1"=30'	SHEET 84	OF 88 SHEETS	STA.	TO STA.			



PHASE DESIGNATION DIAGRAM

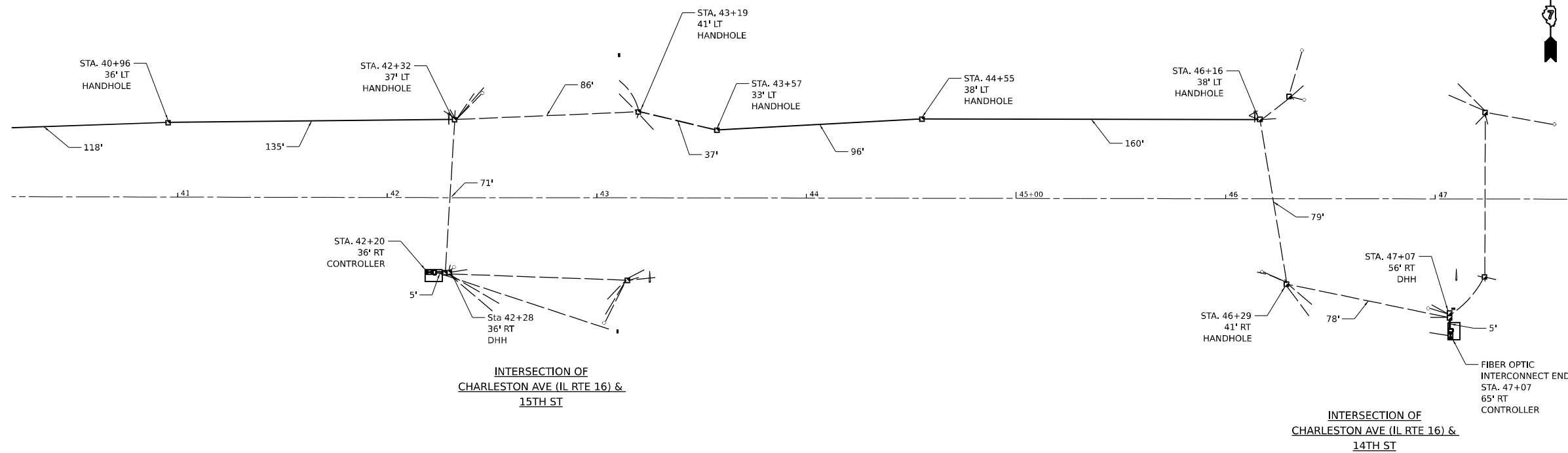
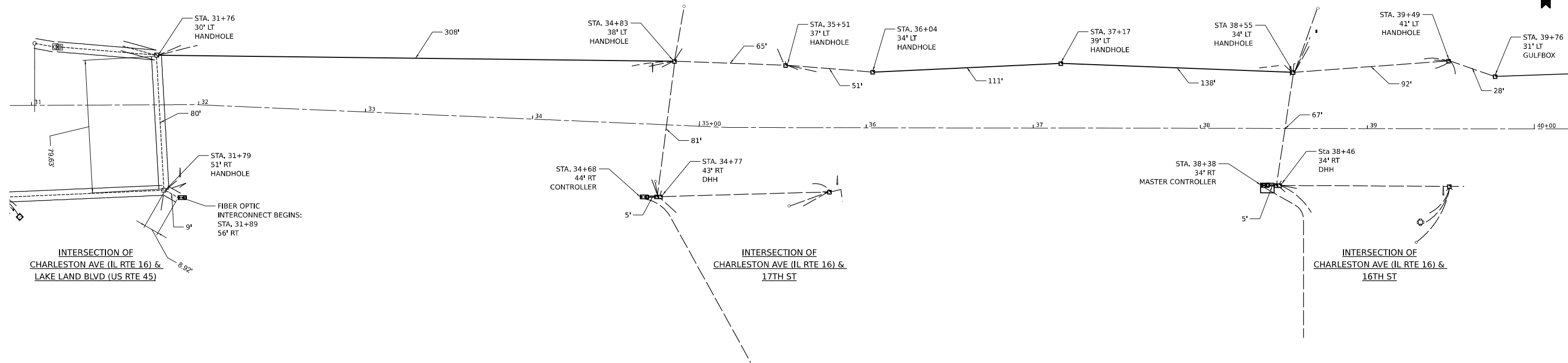
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 HAMPTON, LENZINI AND RENWICK, INC. 580 SHEPARD DRIVE EUGEN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 18400889	USER NAME = nthalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & SWORDS DRIVE DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	DRAWN -	REVISED -				0325	50ZR5-4	COLES	264	230
	PLOT SCALE = 40,0000' = 1" = 1'	CHECKED -	REVISED -		CONTRACT NO. 74759						
	PLOT DATE = 7/5/2023	DATE -	REVISED -		SCALE:	SHEET 85 OF 88 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

MODEL: Default
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 HAMPTON, LENZINI AND RENWICK, INC. 580 SHEPARD DRIVE ELEGAN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 18400889	USER NAME = nhalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERSECTION OF IL 16 (CHARLESTON AVE) & SWORDS DR BILL OF MATERIALS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	DRAWN -	REVISED -				0325	50ZR5-4	COLES	264	231
	PLOT SCALE = 40,0000 " / in.	CHECKED -	REVISED -				CONTRACT NO. 74759				
	PLOT DATE = 7/5/2023	DATE -	REVISED -		SCALE: N.T.S.	SHEET 86 OF 88 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	147
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	29
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1162
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1197
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	147
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	49
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1087
RELOCATE EXISTING SIGNAL HEAD	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	250
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	5



**FIBER OPTIC INTERCONNECT
FROM LAKELAND BLVD. TO 14TH ST.**

THE PROPOSED FIBER OPTIC INTERCONNECT WILL BE INSTALLED FROM THE CONTROLLER CABINET AT LAKELAND BLVD. TO EACH CONTROLLER CABINET ALONG CHARLESTON AVE AND ENDING AT 14TH ST.

THE MASTER CONTROLLER WILL BE INSTALLED IN THE CABINET ON 16TH STREET.

EACH INTERCONNECTED CABINET SHALL HAVE A NETWORK SWITCH INSTALLED WITH SINGLE MODE FIBER TERMINATED AND CONNECTED AT EACH NODE.

SOME OF THE CONDUIT AND GULFBXES ALONG THIS ROUTE ARE NOT SHOWN ON THE PLANS, SO THIS OVERVIEW WILL SHOW THEIR LOCATIONS. ADDITIONAL INFORMATION IS SHOWN ON EACH INTERSECTION. FINAL LOCATIONS AND LENGTHS WILL BE DETERMINED IN THE FIELD. LOCATIONS AS SHOWN FOR THE CONDUIT AND GULFBXES WERE OBTAINED FROM PLANS NOT FIELD MEASUREMENTS.

MODEL: Default
FILE NAME: P:\2021\12\0457\Cad\03_Design\CADD_Sheets\0774759-rlt-Interconnect-01.dgn

 HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE EUGEN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 18400889	USER NAME = nhalan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 16 (CHARLESTON AVE) OVERVIEW OF FIBER OPTIC INTERCONNECT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	DRAWN -	REVISED -				0325	50ZR5-4	COLES	264	232
	PLOT SCALE = 60,0000 * / in.	CHECKED -	REVISED -				CONTRACT NO. 74759				
	PLOT DATE = 7/5/2023	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 87 OF 88 SHEETS		STA.		TO STA.					

MODEL: Default
FILE NAME: P:\2021\210467\Cat03_Design\CADD_Sheets\07747559-ht-ty-interconnect.dgn



HAMPTON, LENZINI AND RENWICK, INC.

580 SHEPARD DRIVE
EUGEN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 18400889

USER NAME = nhalan	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/5/2023	DATE -	REVISED -

DESIGNED -
REVISED -
CHECKED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 16 (CHARLESTON AVE) INTERCONNECT
BILL OF MATERIALS

SCALE: N.T.S. SHEET 88 OF 88 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0325	50ZR5-4	COLES	264	233
CONTRACT NO. 74759				
		ILLINOIS	FED. AID PROJECT	

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	1487
MASTER CONTROLLER	EACH	1
* SPARE FULL ACTUATED CONTROLLER, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2417
ETHERNET SWITCH	EACH	5
FIBER OPTIC CABLE IN CONDUIT, 12 FIBERS, SINGLE MODE	FOOT	2417
* MALFUNCTION MANAGEMENT UNIT	EACH	1

*NOTE: THESE SPARE DEVICES SHALL BE SUPPLIED BY THE CONTRACTOR AND PLACED IN THE TRAFFIC SIGNAL CABINET LOCATED AT IL RTE 16 & 16TH STREET. THE MATERIALS SHALL BE SUPPLIED IN ACCORDANCE WITH THE FULL-ACTUATED CONTROLLER AND CABINET SPECIAL PROVISION.

Model: Default
File: luminaire_performance_tables.dwg
User: mona.steffen
Project: 74759
Section: 50ZRS-4
County: COLES
Contract: 74759
Sheet: 234
Date: 7/10/2023

LEGEND

- 

EXISTING ELECTRIC SERVICE TO REMAIN
- 

EXISTING LIGHTING UNIT TO REMAIN
- 

EXISTING LIGHTING UNIT TO BE REMOVED
- 

EXISTING LUMINAIRE TO BE REMOVED FROM
EXISTING COMBINATION LIGHT POLE
- 

PROPOSED LIGHTING UNIT, ON COMBINATION LIGHTING-
TRAFFIC SIGNAL POLE, LUMINAIRE, LED, ROADWAY,
OUTPUT DESIGNATION G
- 

PROPOSED LIGHTING UNIT, ON COMBINATION LIGHTING-
TRAFFIC SIGNAL POLE, LUMINAIRE, LED, ROADWAY,
OUTPUT DESIGNATION H

Luminaire Performance TableS

Project

Date

Contract Number

Section Number

County

9/16/22

74759

50ZRS-4

COLES

Marked Route Number

Municipality

IL 16 AT US 45 TO LOGAN AVE

MATTOON

- Notes
1.

Set Back is from Edge of Pavement (white line)
2.

Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3.

Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4.

All LED luminaires shall be mounted horizontally.
5.

Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions.
6.

Calculations shall be performed in one direction only.
7.

Compliance with performance criteria shall be held to one significant digit.
8.

The luminaire performance table is intended to define the luminaire and does not necessarily need to match the mounting height, arm length, or geometry of the project.

LUMINAIRE, LED, OUTPUT DESIGNATION G

Roadway

Lane Width

#of Lanes

Median Width

I.E.S Surface Classification

0-Zero Value

12

3

N/A

R3

0.07

Structure

Mounting Height

Arm Length

Set Back

Number of Luminaires
(Highmast & Sign Lighting Only)

45 FT

15 FT

20 FT

N/A

Luminaire

Description

I.E.S. Lateral Distribution

I.E.S. Vertical Distribution

LED, ROADWAY, OUTPUT DESIGNATION G

TYPE III

MEDIUM

Total Light Loss Factor (LLF)

BUG Rating

Shields

Dimming Protocol

0.7

U = 0

N/A

0-10V

Layout

Spacing (to Nearest 5 Ft) Configuration (Opposite, Staggered, 1 Sided, or Median)

110 FT

SINGLE SIDED

Performance

Average Illuminance, E_{AVE} (fc)

Uniformity Ratio, E_{AVE}/E_{MIN}

greater than or equal to 1.3

LESS THAN OR EQUAL TO 3:1

Average Luminance, L_{AVE}(cd/m²)

Uniformity Ratio, L_{AVE}/L_{MIN}

Uniformity Ratio, L_{MAX}/L_{MIN}

Veiling Luminance Ratio, L_V/L_{MIN}

greater than or equal to 0.9

LESS THAN OR EQUAL TO 3:1

LESS THAN OR EQUAL TO 5:1

LESS THAN OR EQUAL TO 0.3:1

LUMINAIRE, LED, OUTPUT DESIGNATION H

Roadway

Lane Width

#of Lanes

Median Width

I.E.S Surface Classification

0-Zero Value

12

2

N/A

R3

0.07

Structure

Mounting Height

Arm Length

Set Back

Number of Luminaires
(Highmast & Sign Lighting Only)

45 FT

15 FT

20 FT

N/A

Luminaire

Description

I.E.S. Lateral Distribution

I.E.S. Vertical Distribution

LED, ROADWAY, OUTPUT DESIGNATION H

TYPE III

MEDIUM

Total Light Loss Factor (LLF)

BUG Rating

Shields

Dimming Protocol

0.7

U = 0

N/A

0-10V

Layout

Spacing (to Nearest 5 Ft) Configuration (Opposite, Staggered, 1 Sided, or Median)

155 FT

SINGLE SIDED

Performance

Average Illuminance, E_{AVE} (fc)

Uniformity Ratio, E_{AVE}/E_{MIN}

GREATER THAN OR EQUAL TO 1.3

LESS THAN OR EQUAL TO 3:1

Average Luminance, L_{AVE}(cd/m²)

Uniformity Ratio, L_{AVE}/L_{MIN}

Uniformity Ratio, L_{MAX}/L_{MIN}

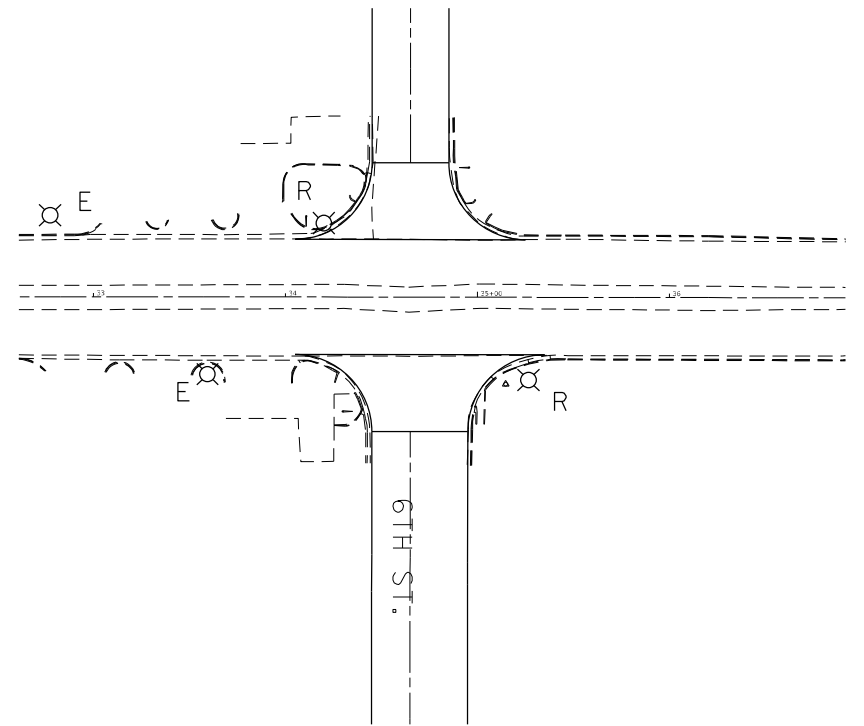
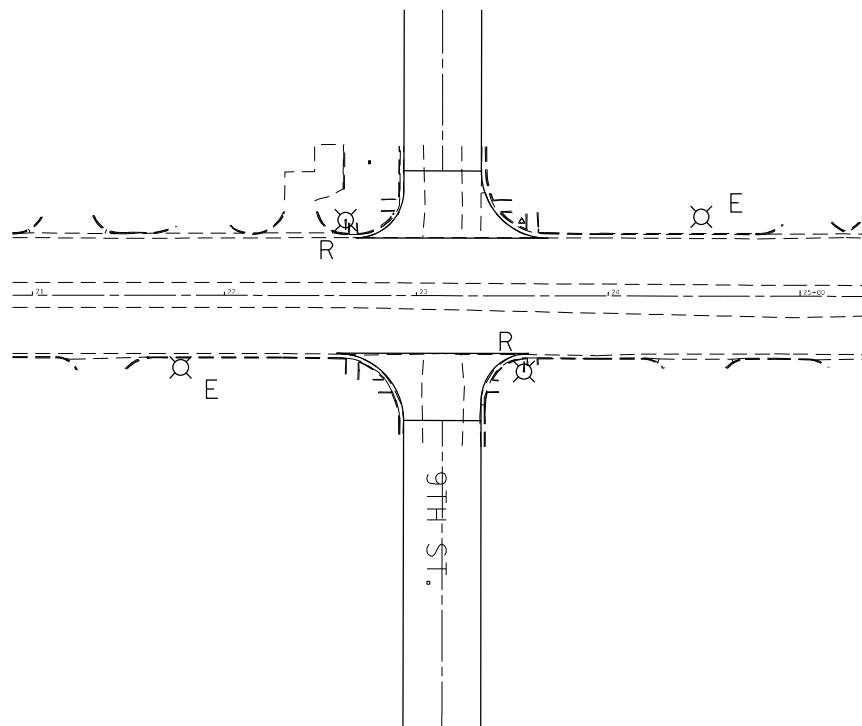
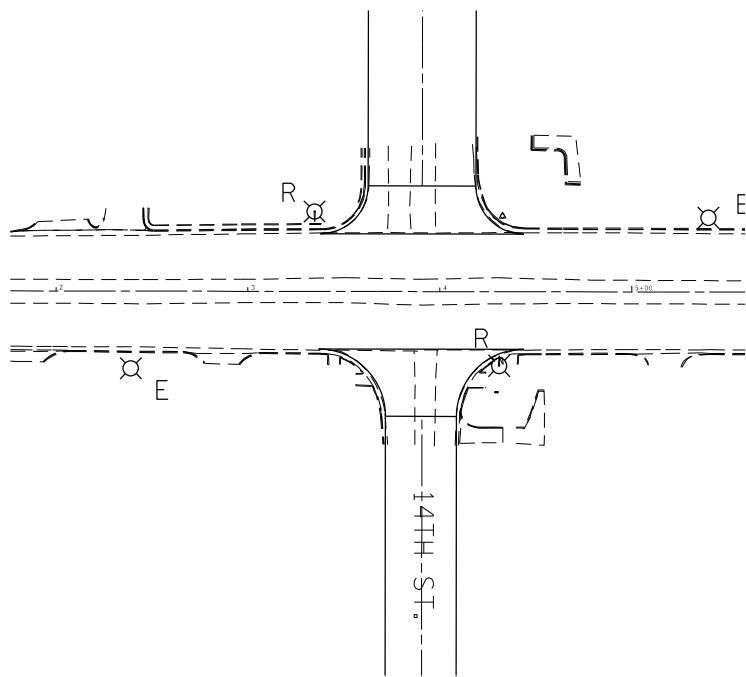
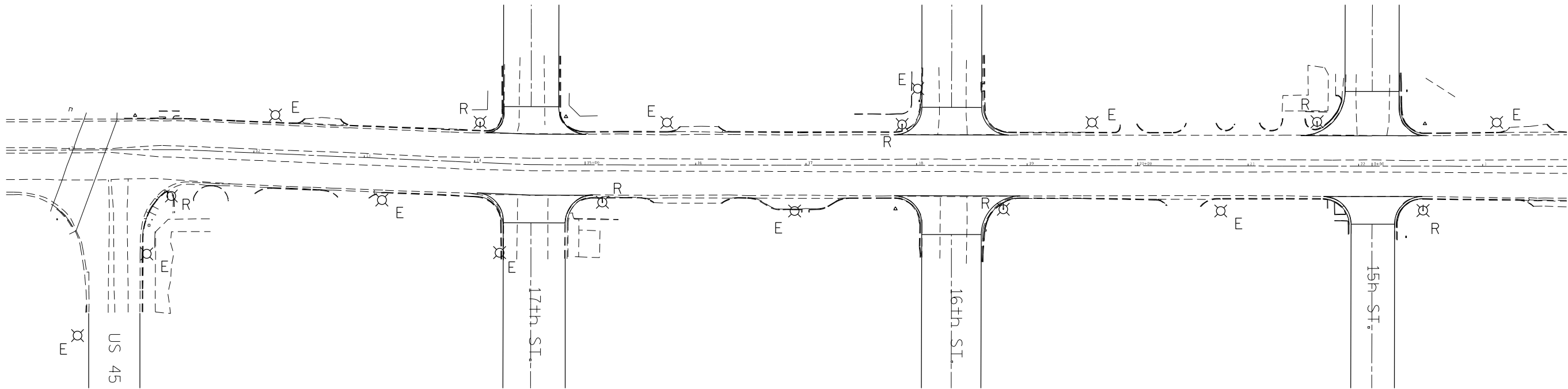
Veiling Luminance Ratio, L_V/L_{MIN}

GREATER THAN OR EQUAL TO 0.9

LESS THAN OR EQUAL TO 3:1

LESS THAN OR EQUAL TO 5:1

LESS THAN OR EQUAL TO 0.3:1



E2

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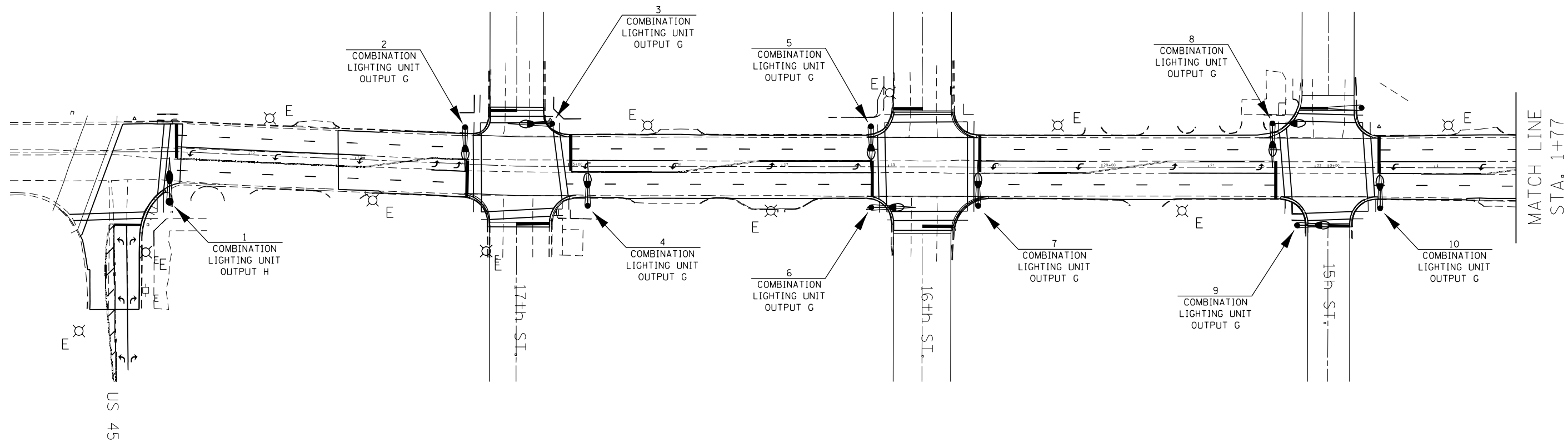
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 16 US 45 TO LOGAN
REMOVAL PLANS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	235
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



E3

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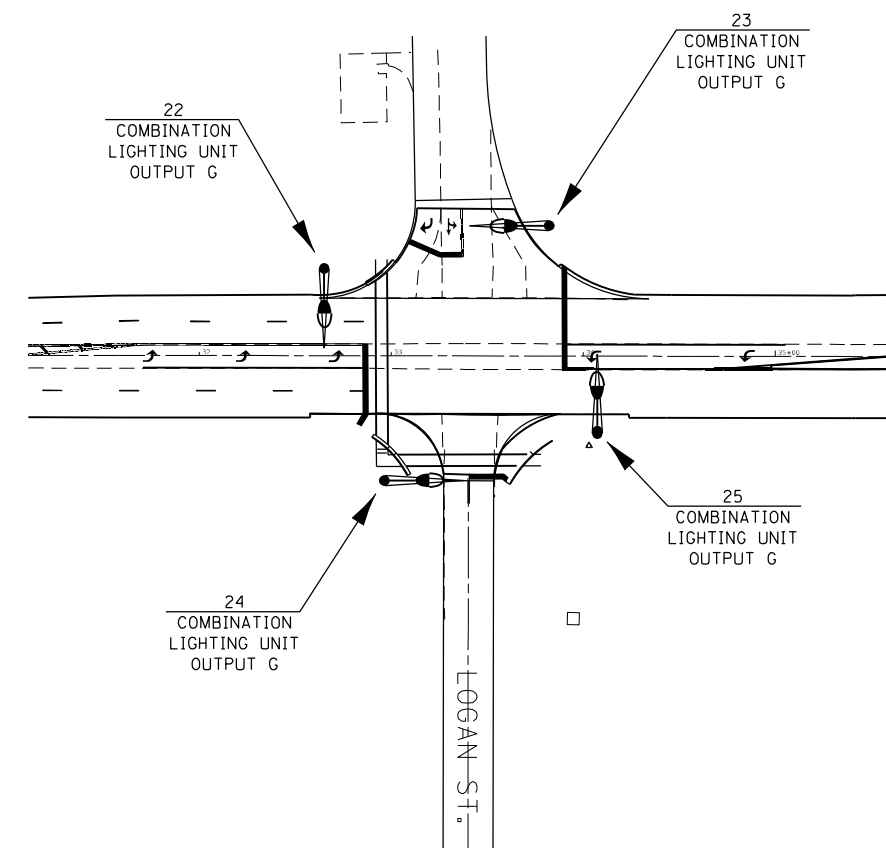
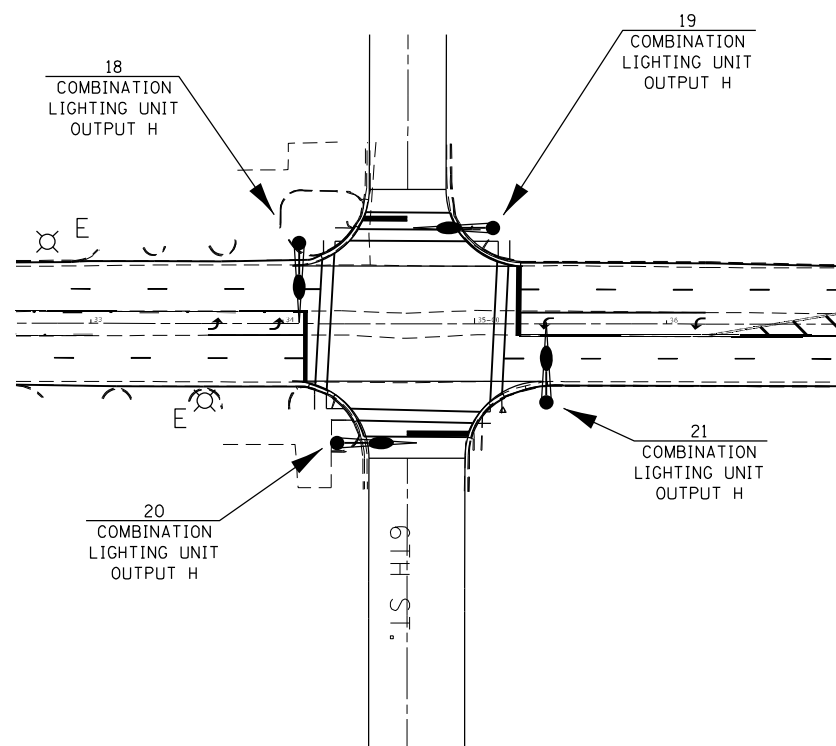
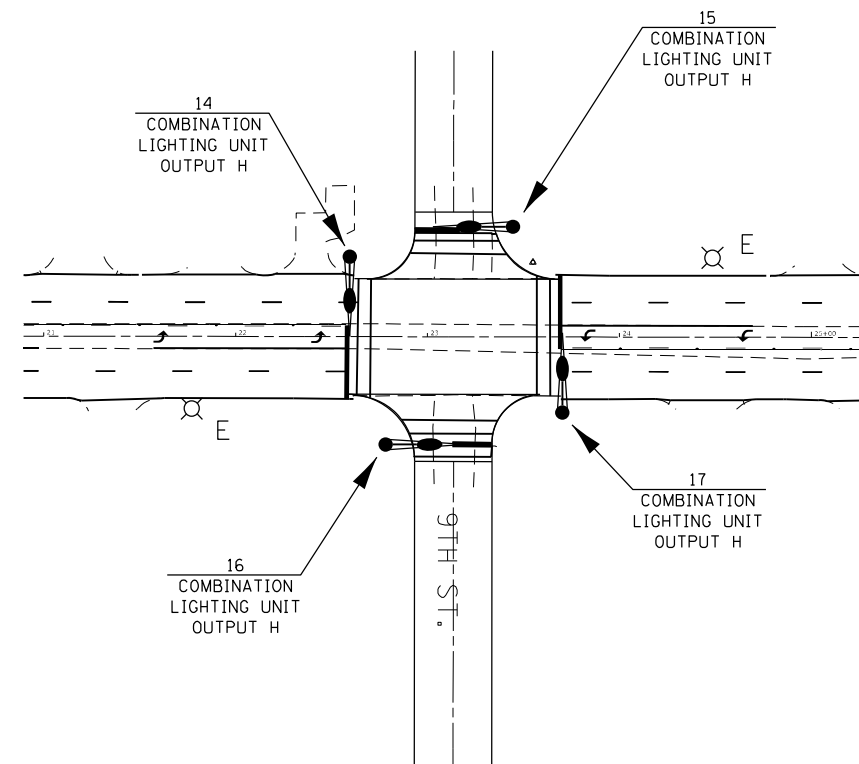
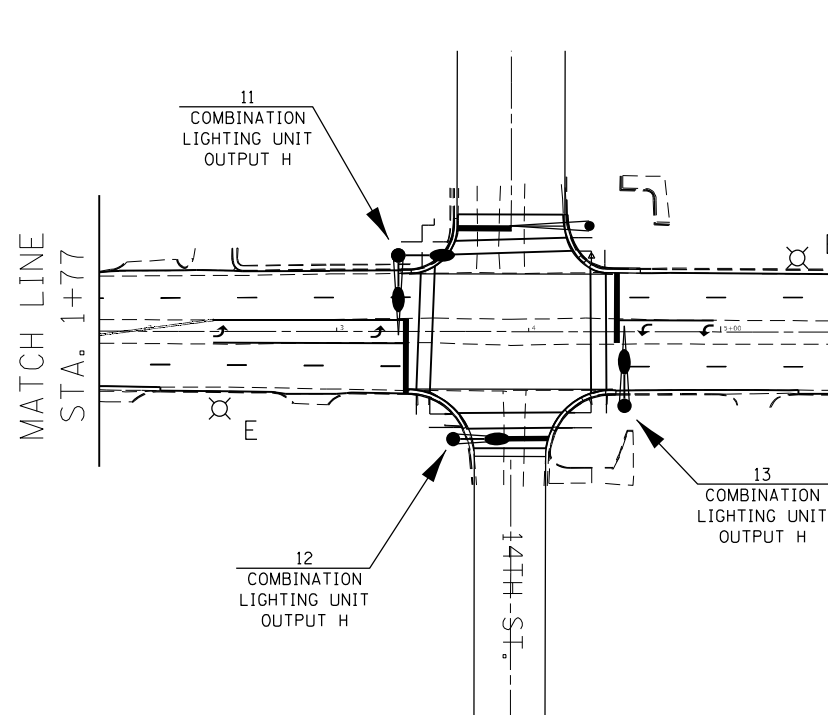
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PLOT DATE = 7/10/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 16; US 45 TO LOGAN
LIGHTING PLANS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	236
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

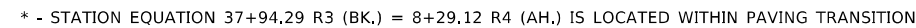
IL 16; US 45 TO LOGAN
LIGHTING PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	237
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

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

E4

$$\begin{array}{ccc} \textcircled{\text{A}} & & \textcircled{\text{B}} \\ \hline \text{STATION} & \text{TO} & \text{STATION} \\ 37+73.81 \text{ R3} & & 8+33.64 \text{ R4} \quad * \end{array}$$



(A)

STATION

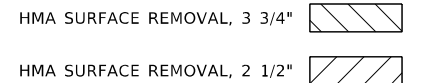
28+79.23 R4

TO

(B)

STATION

29+04.23 R4



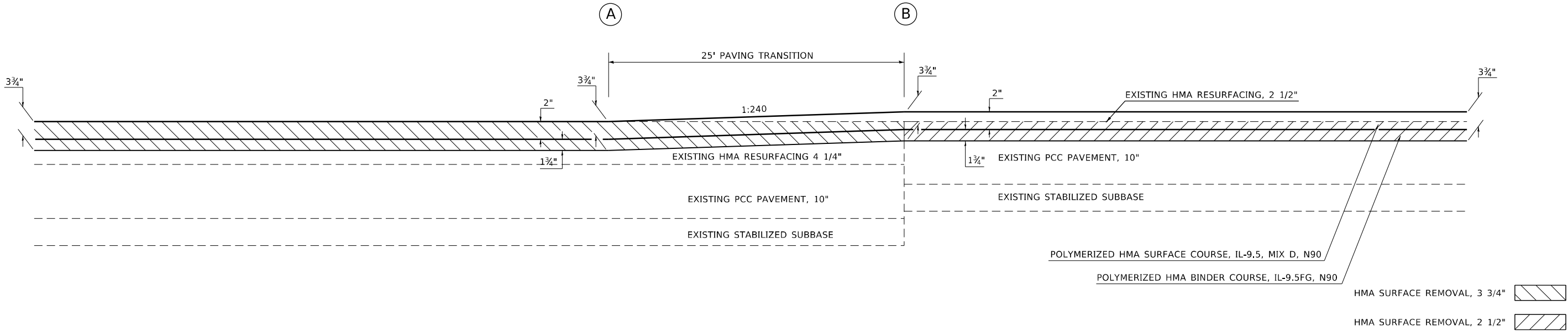
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVING DETAILS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					325	50ZRS-4	COLES	264	238
					CONTRACT NO. 74759				
SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.				
					ILLINOIS FED. AID PROJECT				

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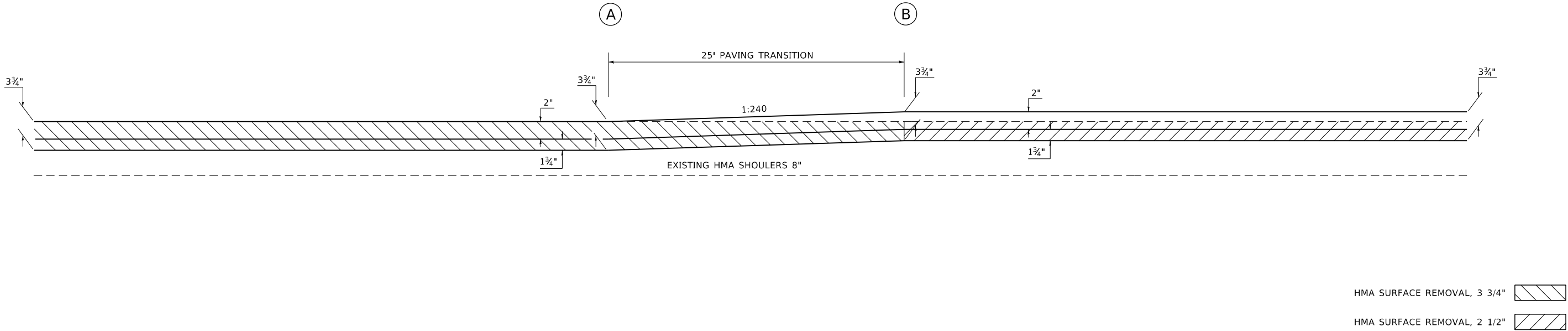
PROPOSED PAVING DETAIL
IL 16

(A) STATION TO (B) STATION
41+61.32 R4 41+86.32 R4



PROPOSED PAVING DETAIL
IL 16 SHOULDERS

(A) STATION TO (B) STATION
41+61.32 R4 41+86.32 R4



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

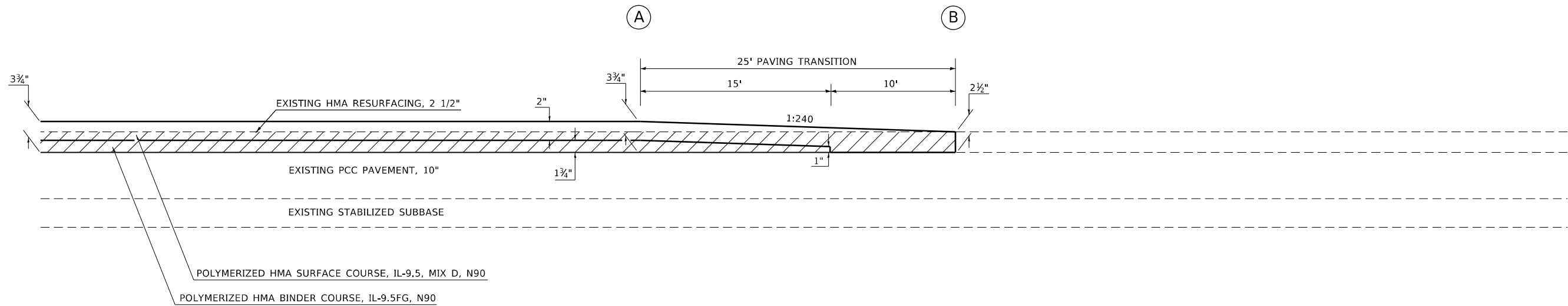
PAVING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	239
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

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

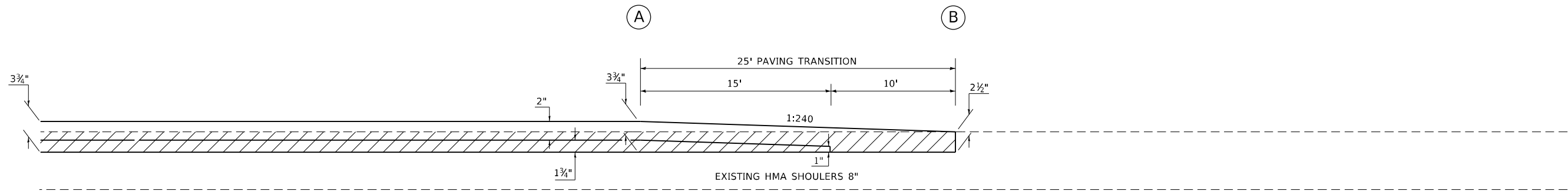
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IL 16

(A) STATION 91+75.00 R4 TO (B) STATION 92+00.00 R4



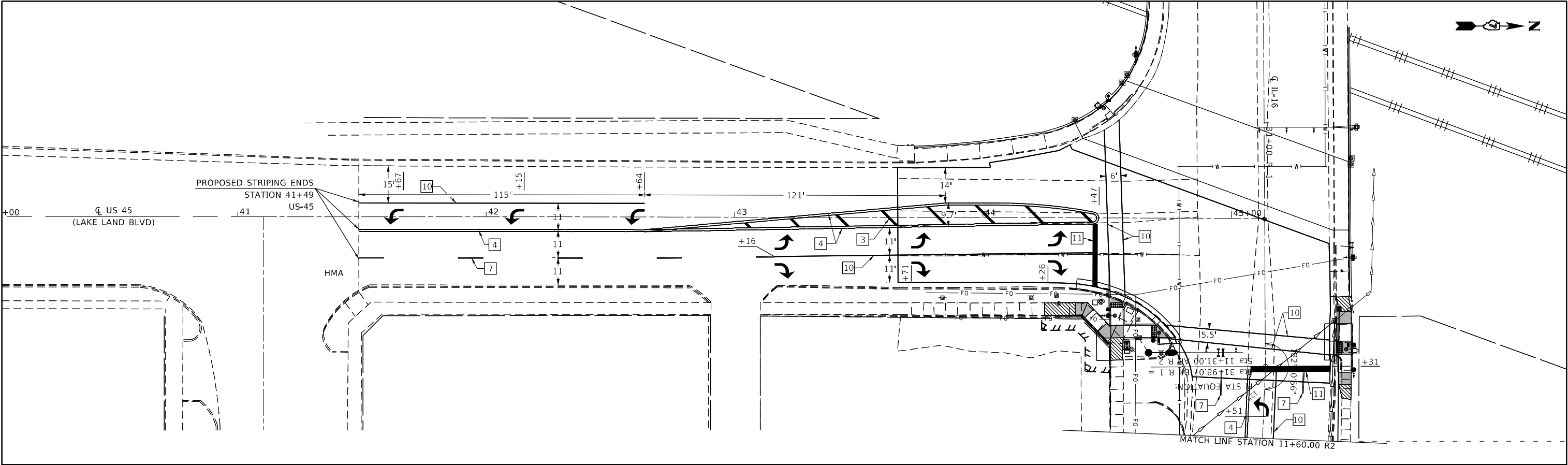
PROPOSED PAVING DETAIL
IL 16 SHOULDERS

(A) STATION 91+75.00 R4 TO (B) STATION 92+00.00 R4



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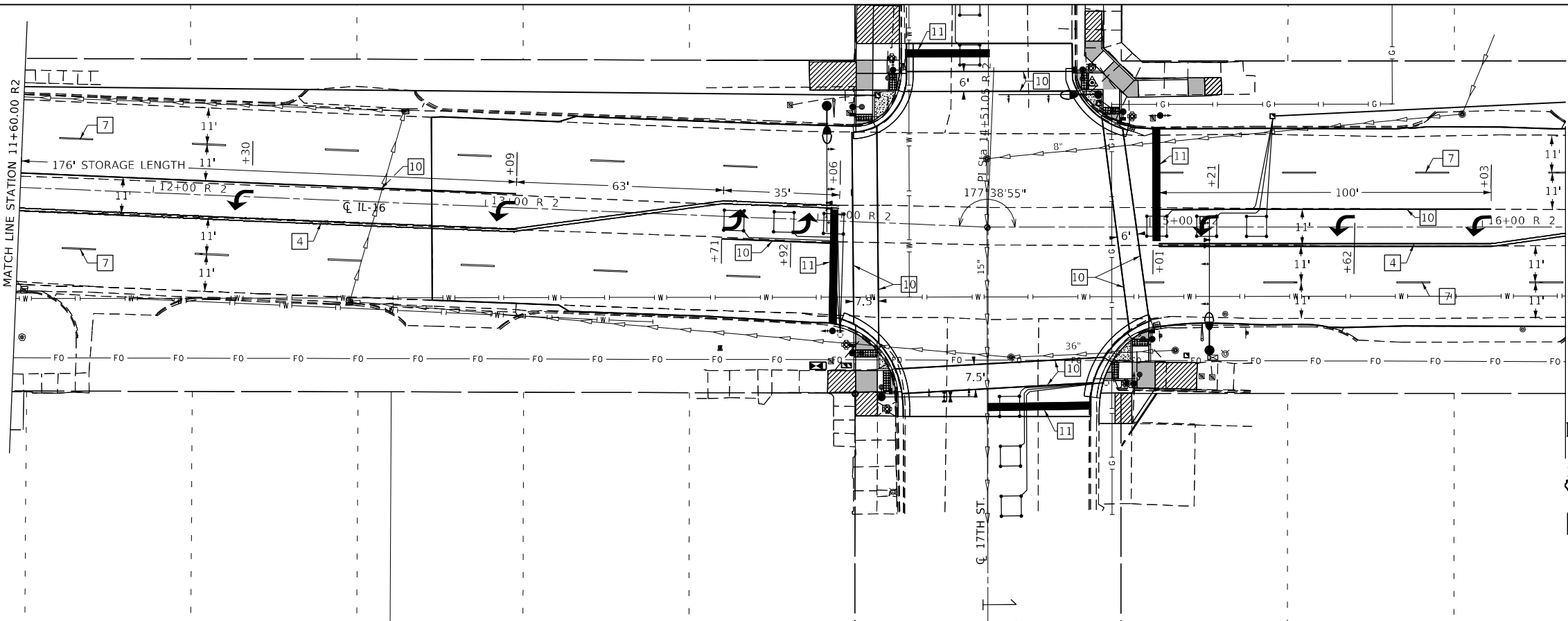
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	PLOT SCALE = 100,0000 ' / in.	DRAWN -	REVISED -					325	50ZRS-4	COLES	264	240
	PLOT DATE = 7/10/2023	CHECKED -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 74759				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | 3 12" (300) DIAGONAL (YELLOW) | 5 12" (300) SOLID WHITE | 7 6" (150) SKIP-DASH (WHITE) | 9 12" (300) DIAGONAL (WHITE) | 11 24" (600) STOP BAR (WHITE) | 13 4" (100) PARKING WHITE |
| 2 4" (100) SOLID (YELLOW) | 4 4" (100) DOUBLE YELLOW (NARROW) | 6 4" (100) DOUBLE YELLOW (WIDE) | 8 4" (100) SOLID (WHITE) | 10 6" (150) SOLID (WHITE) | 12 8" (200) SOLID (WHITE) | |

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



MODEL: Default
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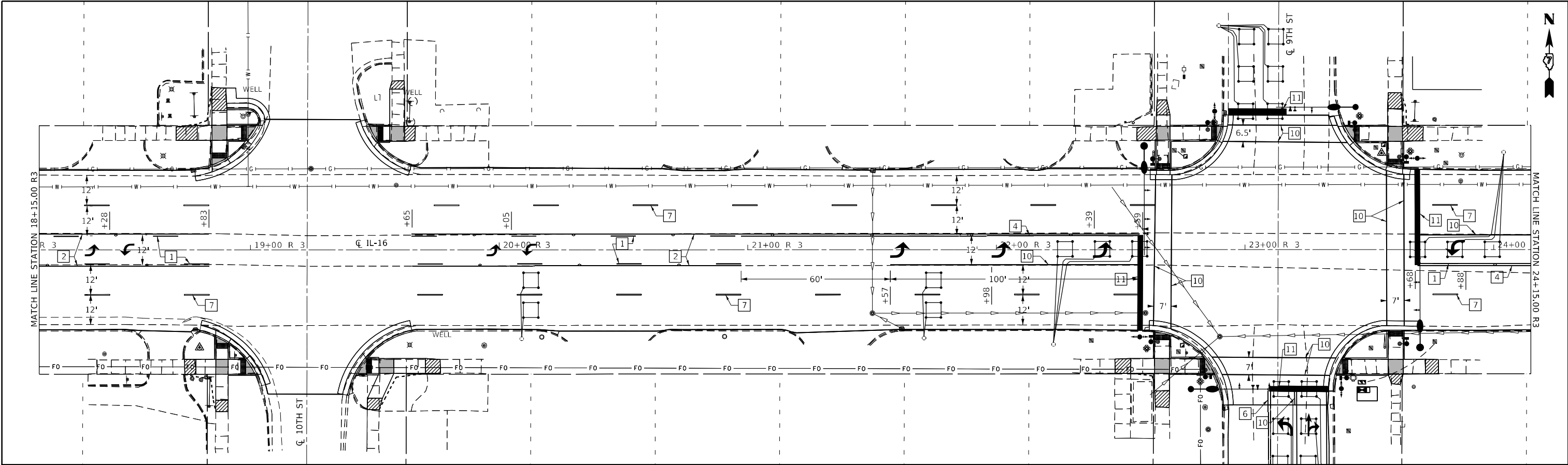
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PLOT DATE	= 7/10/2023	DATE	-	REVISION	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 1 OF 12 SHEETS STA. TO STA.

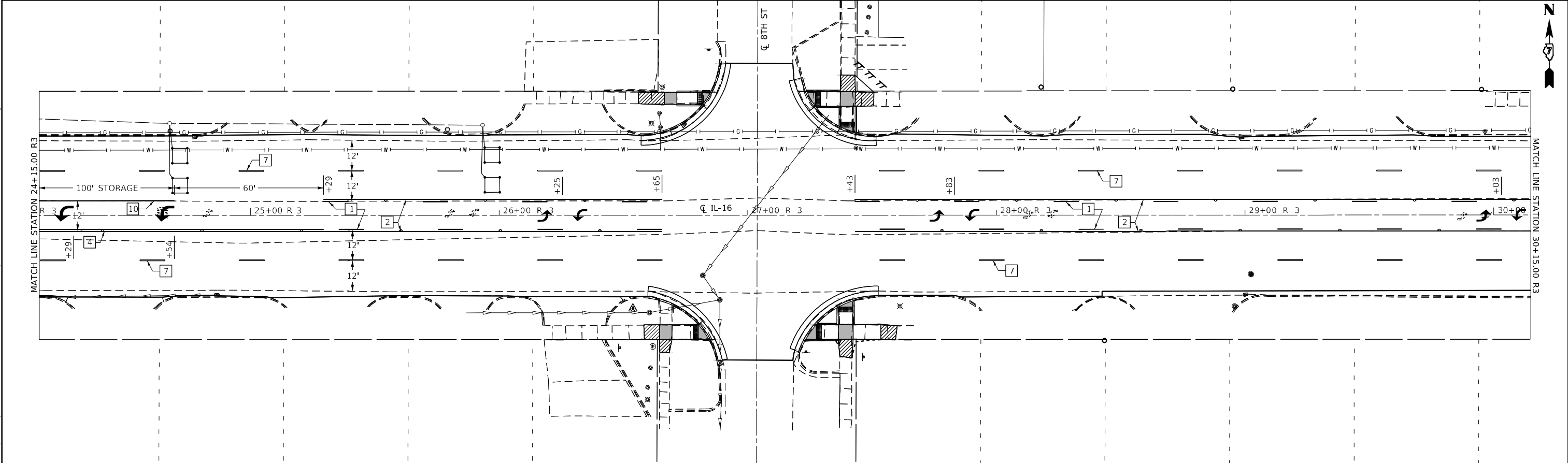
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	241
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | 3 12" (300) DIAGONAL (YELLOW) | 5 12" (300) SOLID WHITE | 7 6" (150) SKIP-DASH (WHITE) | 9 12" (300) DIAGONAL (WHITE) | 11 24" (600) STOP BAR (WHITE) | 13 4" (100) PARKING WHITE |
| 2 4" (100) SOLID (YELLOW) | 4 4" (100) DOUBLE YELLOW (NARROW) | 6 4" (100) DOUBLE YELLOW (WIDE) | 8 4" (100) SOLID (WHITE) | 10 6" (150) SOLID (WHITE) | 12 8" (200) SOLID (WHITE) | |

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



MODEL: Default
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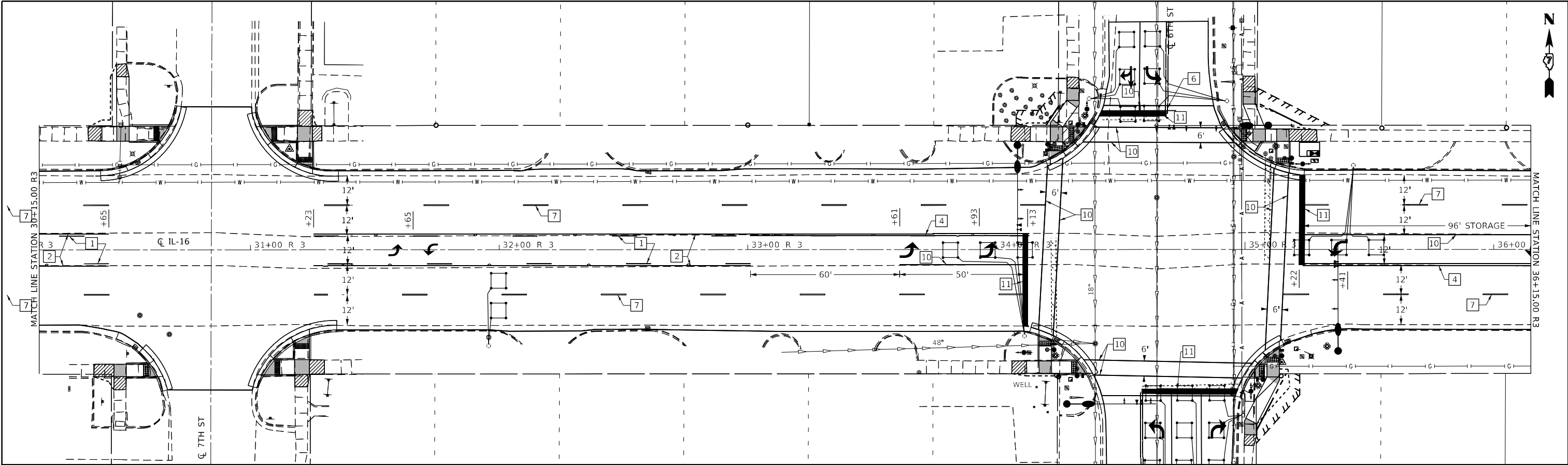
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PLOT DATE	= 7/10/2023	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 4 OF 12 SHEETS STA. TO STA.

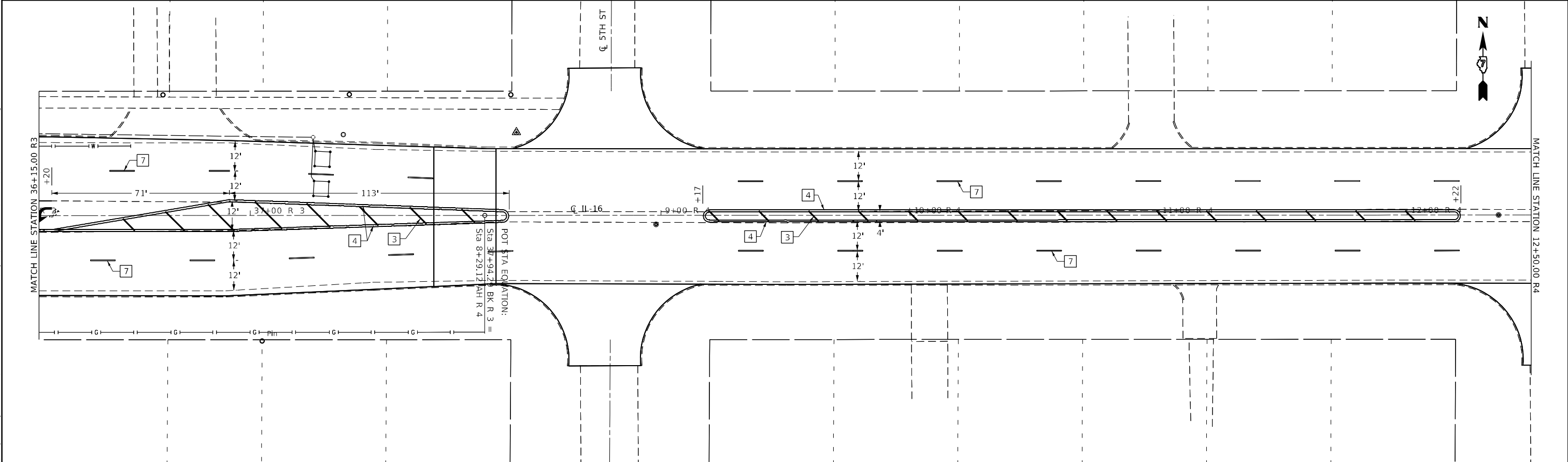
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325	50ZRS-4	COLES	264	244
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | 3 12" (300) DIAGONAL (YELLOW) | 5 12" (300) SOLID WHITE | 7 6" (150) SKIP-DASH (WHITE) | 9 12" (300) DIAGONAL (WHITE) | 11 24" (600) STOP BAR (WHITE) | 13 4" (100) PARKING WHITE |
| 2 4" (100) SOLID (YELLOW) | 4 4" (100) DOUBLE YELLOW (NARROW) | 6 4" (100) DOUBLE YELLOW (WIDE) | 8 4" (100) SOLID (WHITE) | 10 6" (150) SOLID (WHITE) | 12 8" (200) SOLID (WHITE) | |

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



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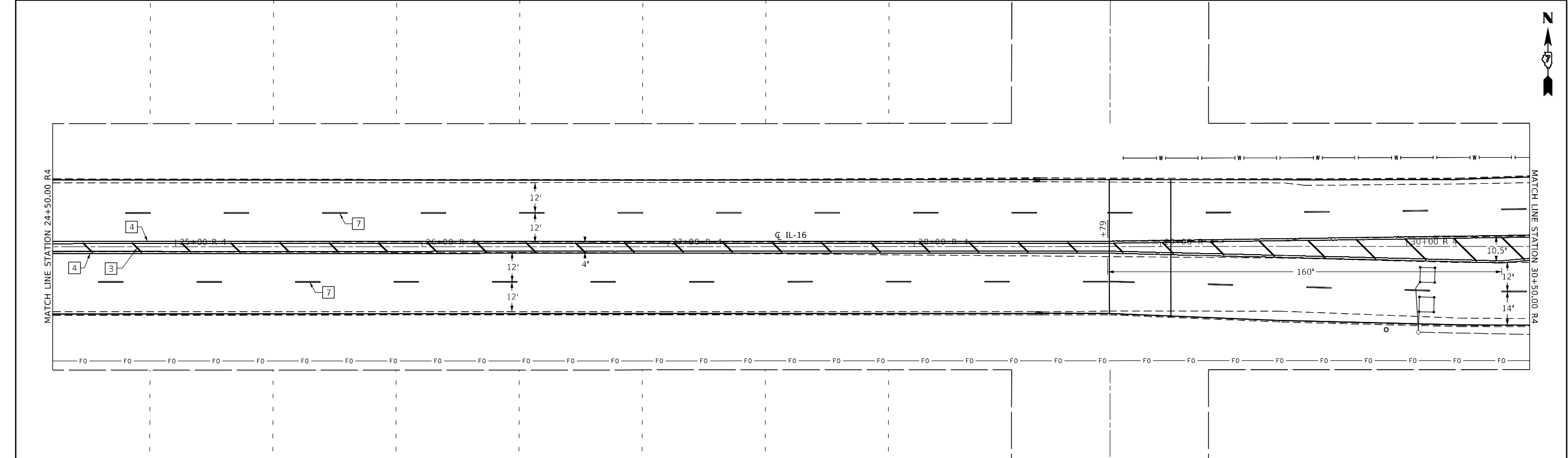
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PLOT DATE	= 7/10/2023	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 5 OF 12 SHEETS STA. TO STA.

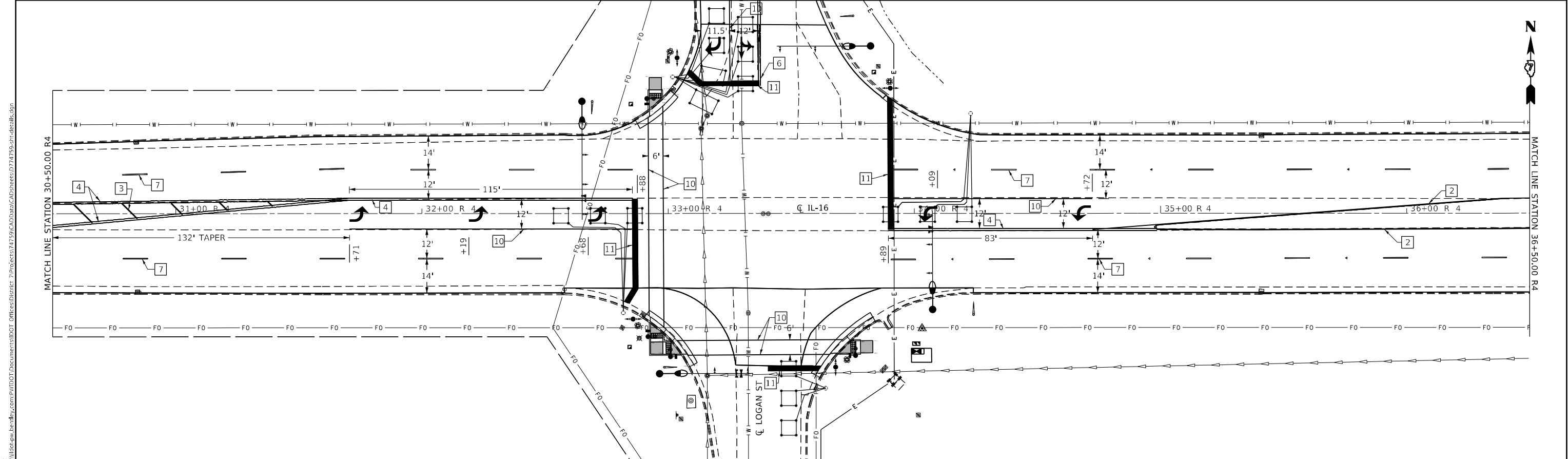
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325	50ZRS-4	COLES	264	245
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | 3 12" (300) DIAGONAL (YELLOW) | 5 12" (300) SOLID WHITE | 7 6" (150) SKIP-DASH (WHITE) | 9 12" (300) DIAGONAL (WHITE) | 11 24" (600) STOP BAR (WHITE) | 13 4" (100) PARKING WHITE |
| 2 4" (100) SOLID (YELLOW) | 4 4" (100) DOUBLE YELLOW (NARROW) | 6 4" (100) DOUBLE YELLOW (WIDE) | 8 4" (100) SOLID (WHITE) | 10 6" (150) SOLID (WHITE) | 12 8" (200) SOLID (WHITE) | |

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



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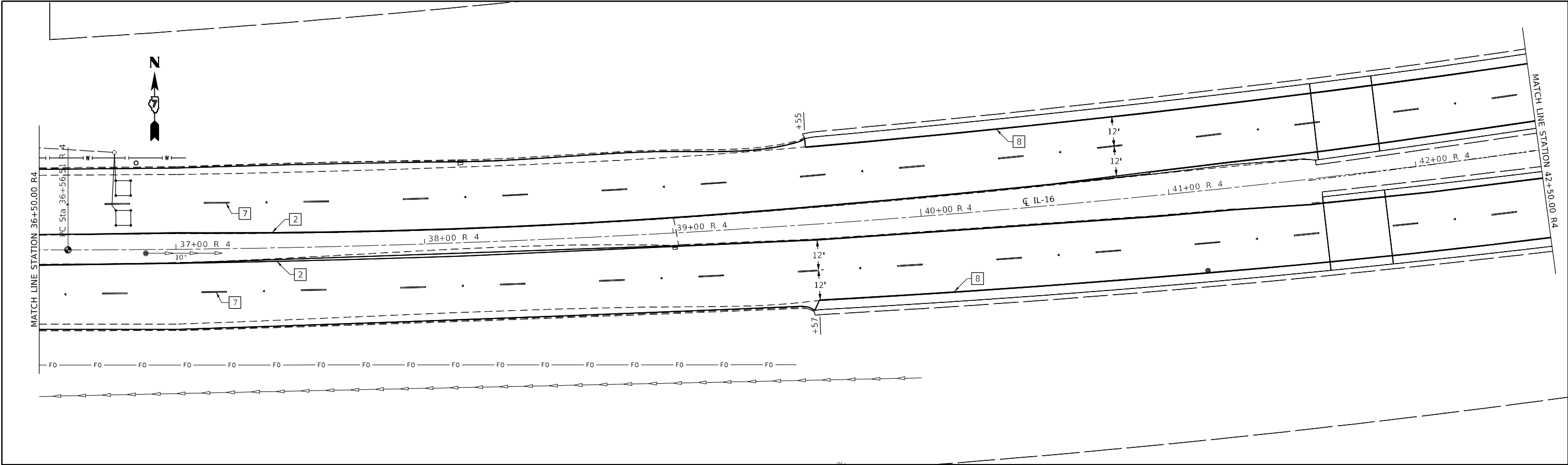
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 7 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	247
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)

2 4" (100) SOLID (YELLOW)

3 12" (300) DIAGONAL (YELLOW)

4 4" (100) DOUBLE YELLOW (NARROW)

5 12" (300) SOLID WHITE

6 4" (100) DOUBLE YELLOW (WIDE)

7 6" (150) SKIP-DASH (WHITE)

8 4" (100) SOLID (WHITE)

9 12" (300) DIAGONAL (WHITE)

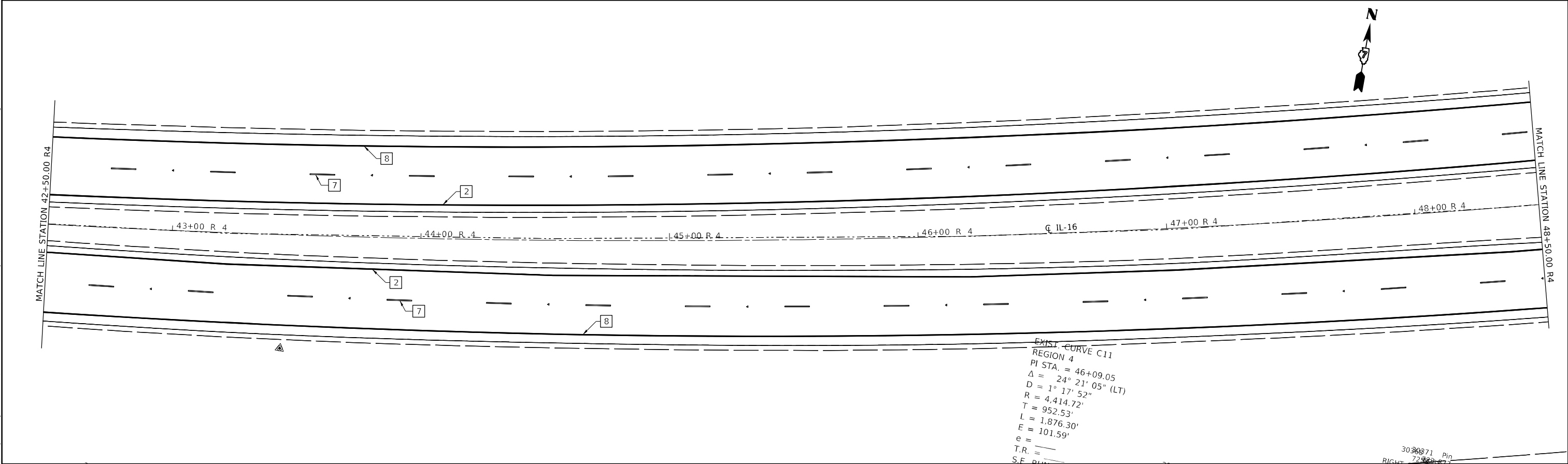
10 6" (150) SOLID (WHITE)

11 24" (600) STOP BAR (WHITE)

12 8" (200) SOLID (WHITE)

13 4" (100) PARKING WHITE

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



EXIST. CURVE C11
REGION 4
PI STA. = 46+09.05
 Δ = 24° 21' 05" (LT)
D = 1° 17' 52"
R = 4,414.72'
T = 952.53'
L = 1,876.30'
E = 101.59'
e =
T.R. =
S.F. =

MODEL: Default
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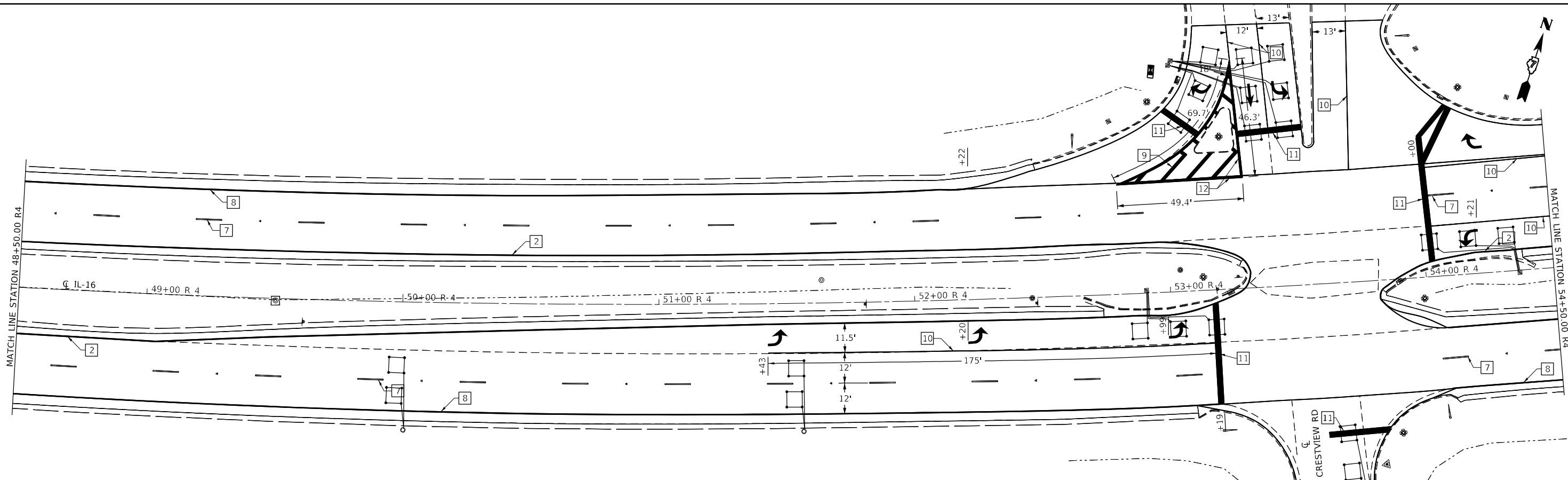
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	248
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

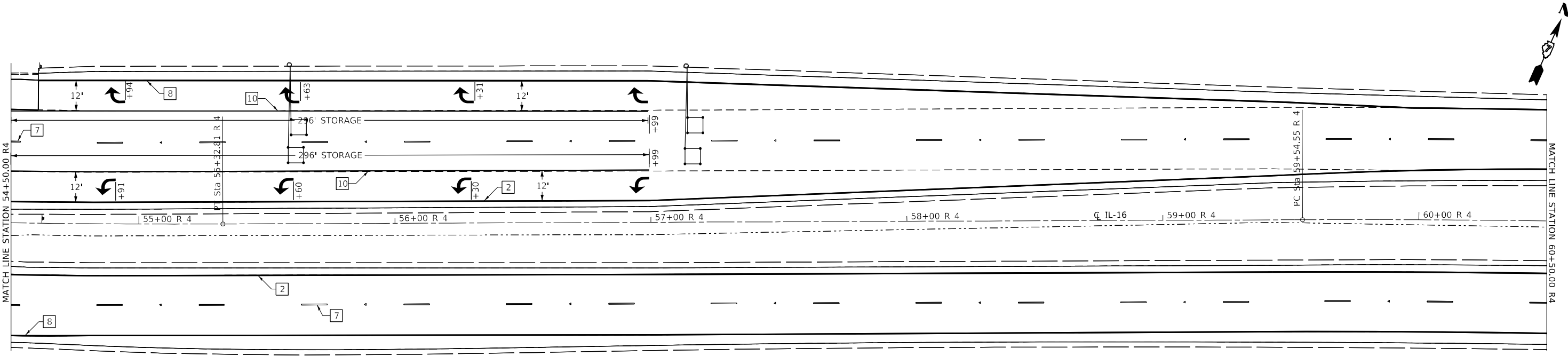
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PAVEMENT MARKING LEGEND

- | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | 3 12" (300) DIAGONAL (YELLOW) | 5 12" (300) SOLID WHITE | 7 6" (150) SKIP-DASH (WHITE) | 9 12" (300) DIAGONAL (WHITE) | 11 24" (600) STOP BAR (WHITE) | 13 4" (100) PARKING WHITE |
| 2 4" (100) SOLID (YELLOW) | 4 4" (100) DOUBLE YELLOW (NARROW) | 6 4" (100) DOUBLE YELLOW (WIDE) | 8 4" (100) SOLID (WHITE) | 10 6" (150) SOLID (WHITE) | 12 8" (200) SOLID (WHITE) | |

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



USER NAME	= mona.steffen	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 40,0000 * / in.	CHECKED	-	REVISED	-
PLOT DATE	= 7/10/2023	DATE	-	REVISED	-

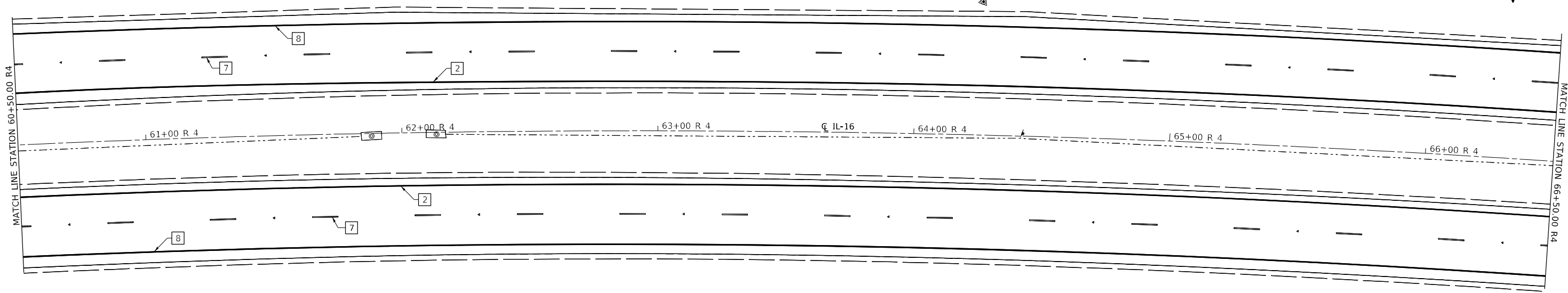
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 9 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	249
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

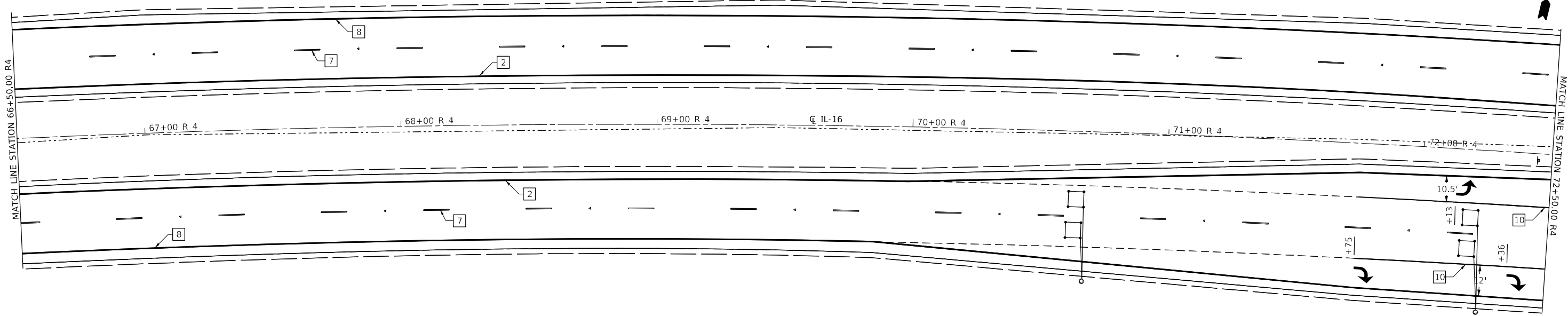
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PAVEMENT MARKING LEGEND

- | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | 3 12" (300) DIAGONAL (YELLOW) | 5 12" (300) SOLID WHITE | 7 6" (150) SKIP-DASH (WHITE) | 9 12" (300) DIAGONAL (WHITE) | 11 24" (600) STOP BAR (WHITE) | 13 4" (100) PARKING WHITE |
| 2 4" (100) SOLID (YELLOW) | 4 4" (100) DOUBLE YELLOW (NARROW) | 6 4" (100) DOUBLE YELLOW (WIDE) | 8 4" (100) SOLID (WHITE) | 10 6" (150) SOLID (WHITE) | 12 8" (200) SOLID (WHITE) | |

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



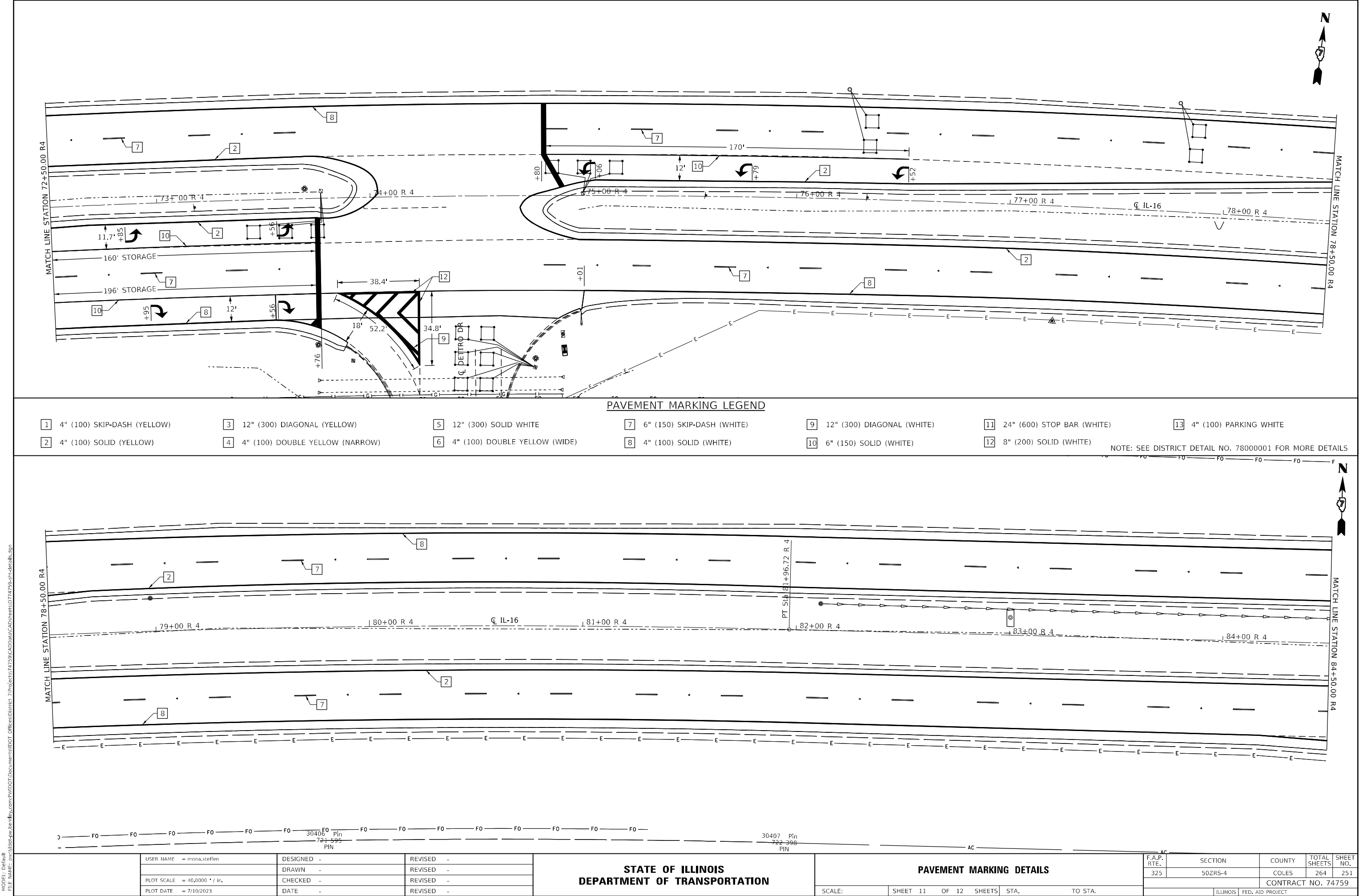
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PLOT DATE	= 7/10/2023	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 10 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	250
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)

2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)

4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE

6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)

8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)

10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)

12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS

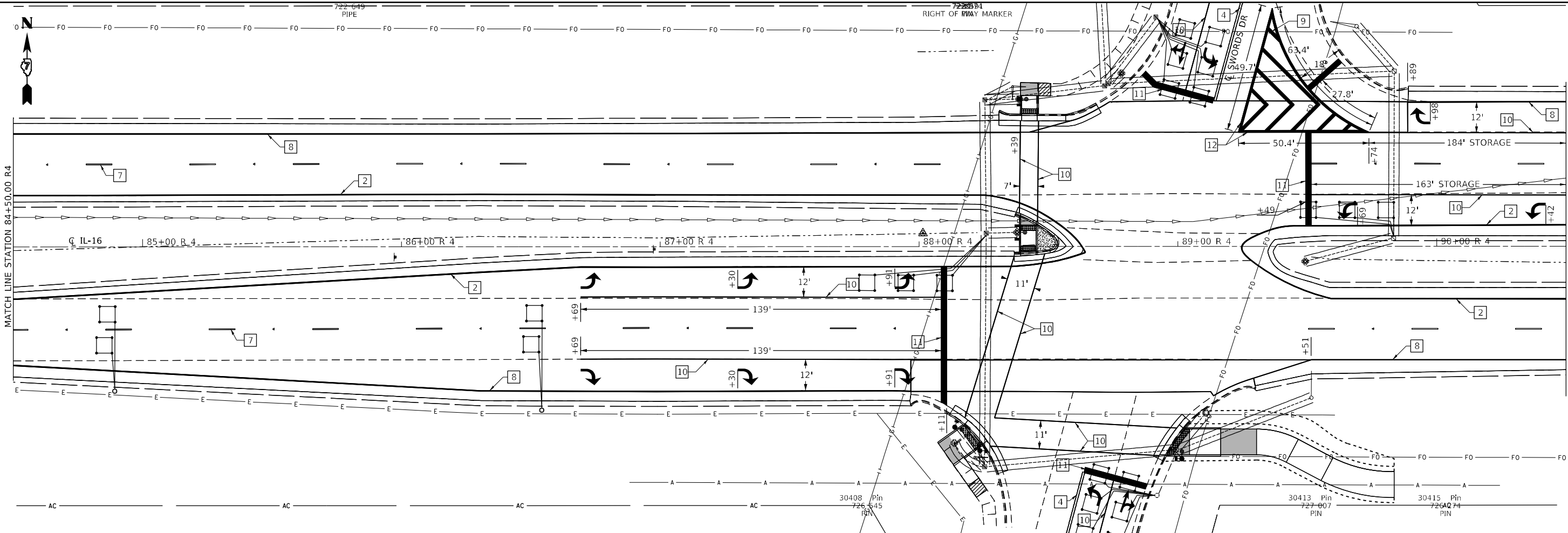
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

SCALE: SHEET 11 OF 12 SHEETS STA. TO STA.

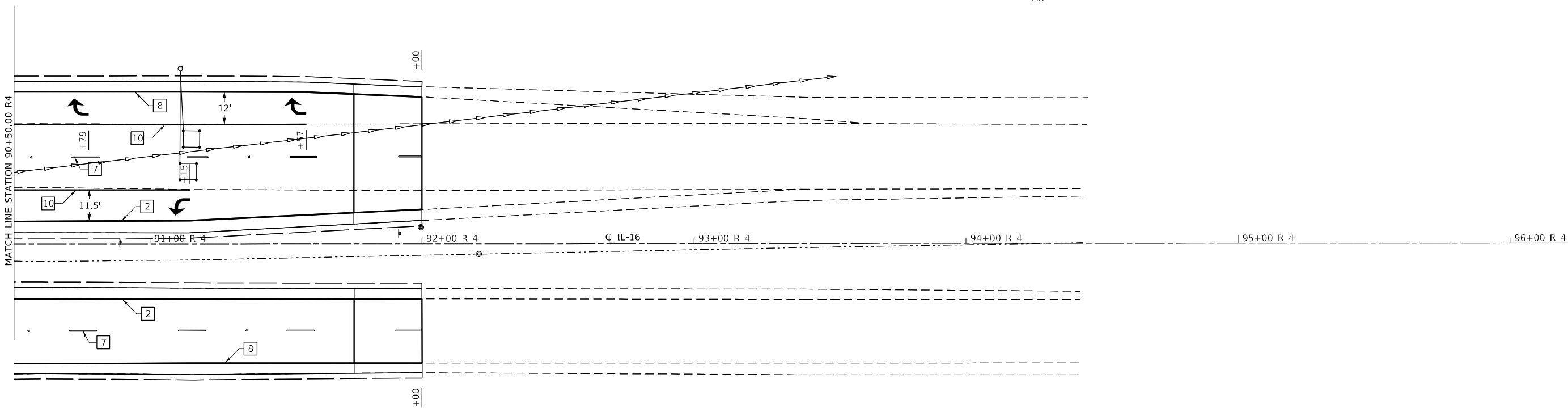
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	251
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- | | | | | | | |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|---------------------------|
| 1 4" (100) SKIP-DASH (YELLOW) | 3 12" (300) DIAGONAL (YELLOW) | 5 12" (300) SOLID WHITE | 7 6" (150) SKIP-DASH (WHITE) | 9 12" (300) DIAGONAL (WHITE) | 11 24" (600) STOP BAR (WHITE) | 13 4" (100) PARKING WHITE |
| 2 4" (100) SOLID (YELLOW) | 4 4" (100) DOUBLE YELLOW (NARROW) | 6 4" (100) DOUBLE YELLOW (WIDE) | 8 4" (100) SOLID (WHITE) | 10 6" (150) SOLID (WHITE) | 12 8" (200) SOLID (WHITE) | |

NOTE: SEE DISTRICT DETAIL NO. 78000001 FOR MORE DETAILS



MODEL: Default
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PROJECT: 74759-CADD-PAVEMENT MARKING DETAILS.dgn
OFFICE: District 7
DATE: 7/10/2023

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DRAWN	-	CHECKED	-	REVISED	-
PLOT SCALE	= 40,0000 * / in.	DATE	-	REVISED	-
PLOT DATE	= 7/10/2023				

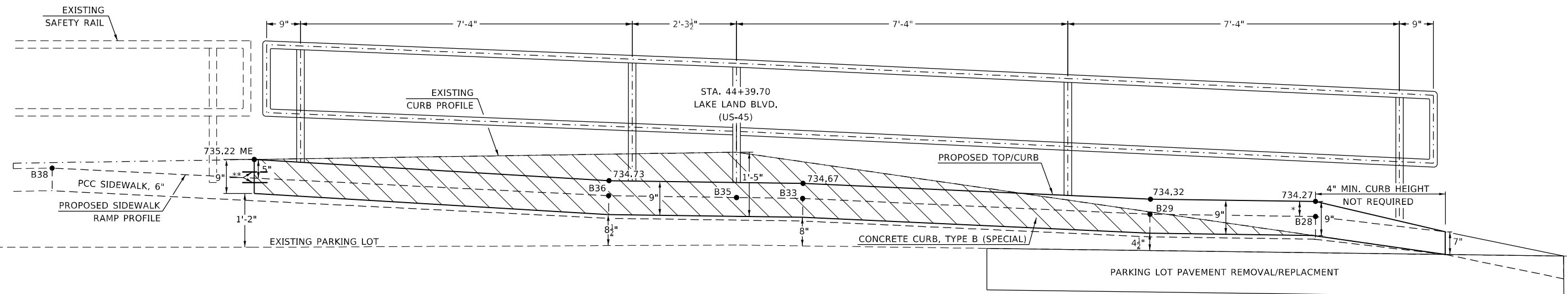
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS

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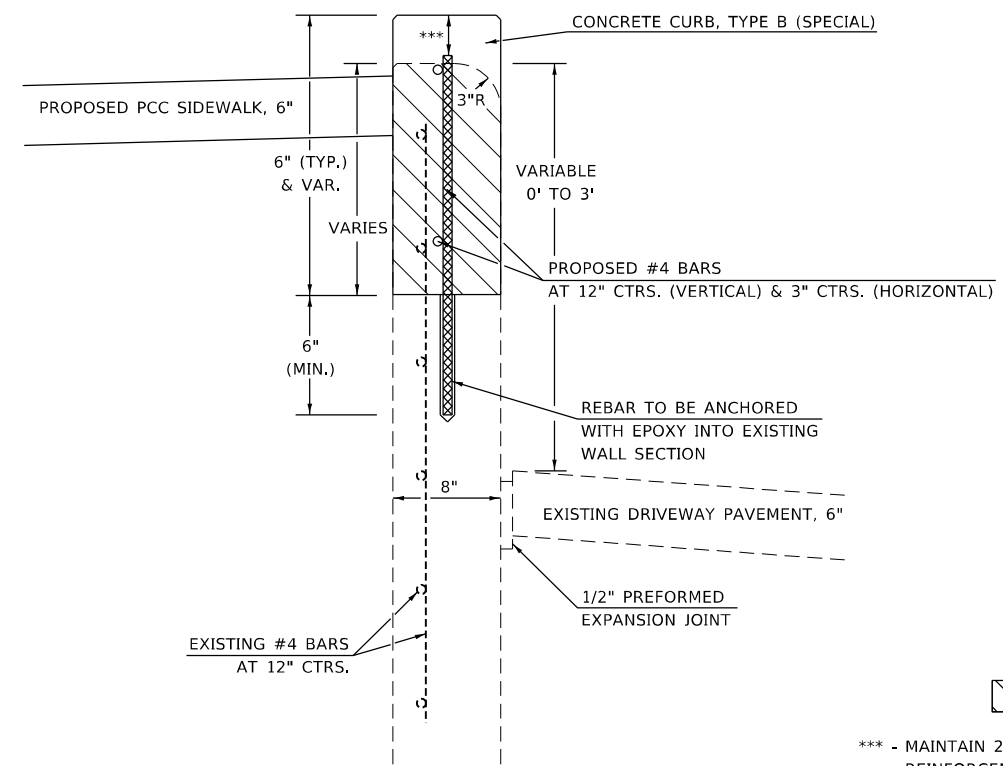
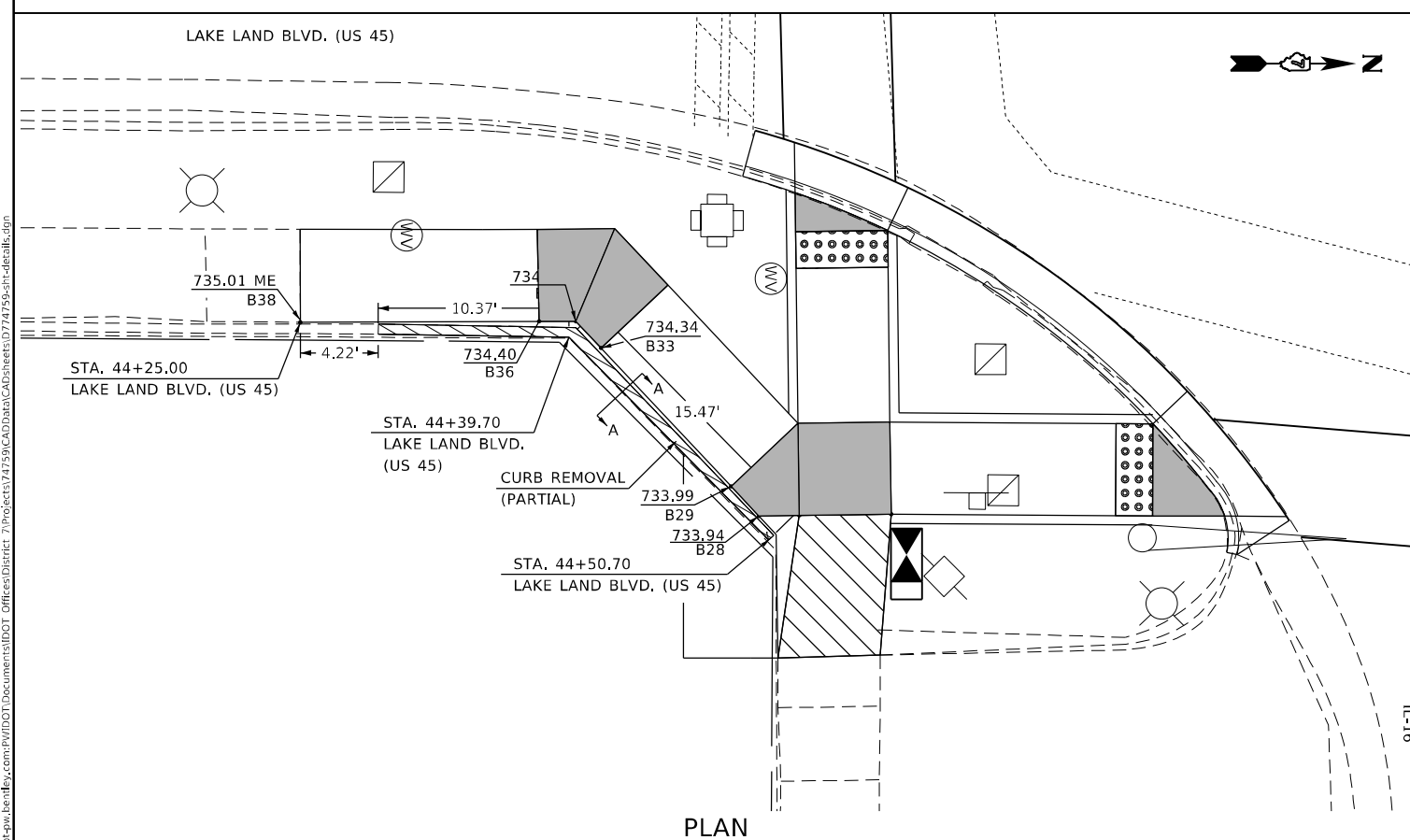
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	252
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

CURB REMOVAL (PARTIAL)AND REPLACEMENT DETAILS
SE CORNER OF IL-16/US-45

 CURB REMOVAL (PARTIAL)

* 4" MINIMUM CURB HEIGHT ABOVE TOP/SIDEWALK IS REQUIRED
ALONG PROPOSED SIDEWALK SECTION, EXCEPT WHERE SHOWN

** 2 - 12" #4 TIE BARS SPACED AT 3" CTRS. ANCHORED
WITH EPOXY 6" (MIN.) INTO EXSITING WALL SECTION

ELEVATION CURB REMOVAL (PARTIAL)

*** - MAINTAIN 2" CLEARANCE BETWEEN NEW
REINFORCEMENT AND EDGES OF CONSTRUCTED WALL

NOTE: ADJUSTMENTS IN REINFORCEMENT SPACING ARE ALLOWED TO ACCOMODATE HANDRAIL POST LOCATIONS

USER NAME = mona.steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

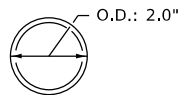
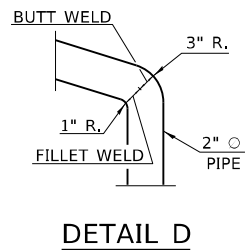
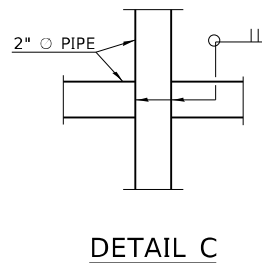
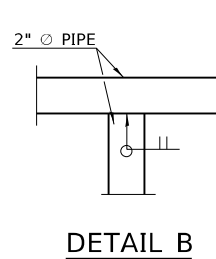
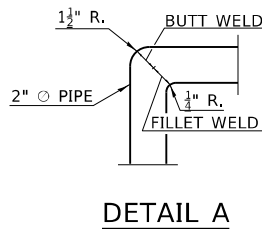
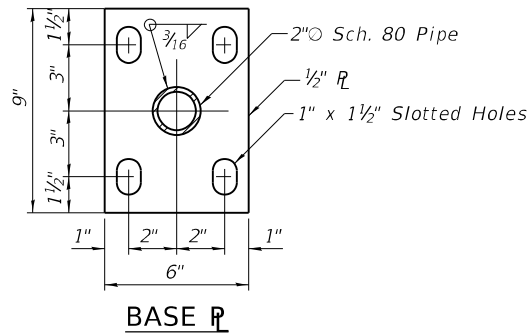
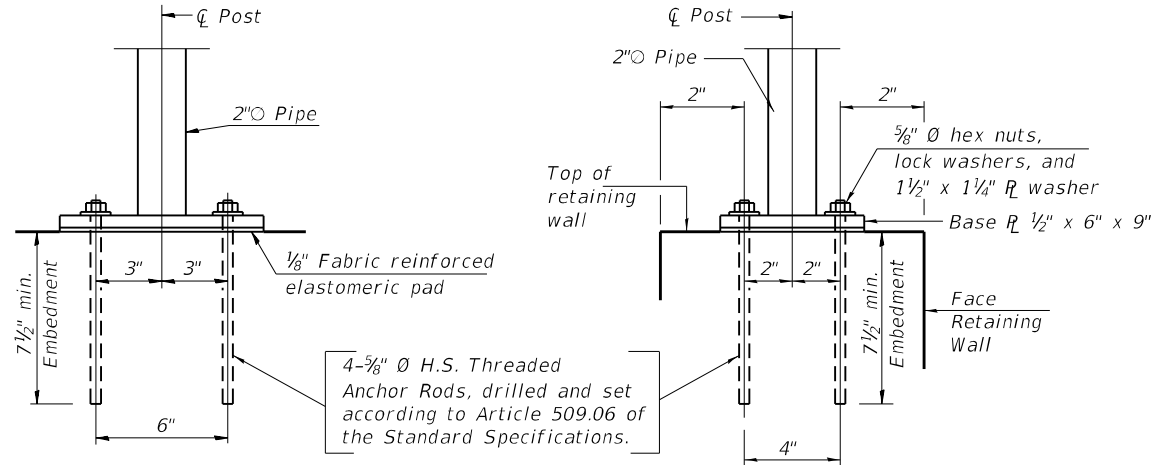
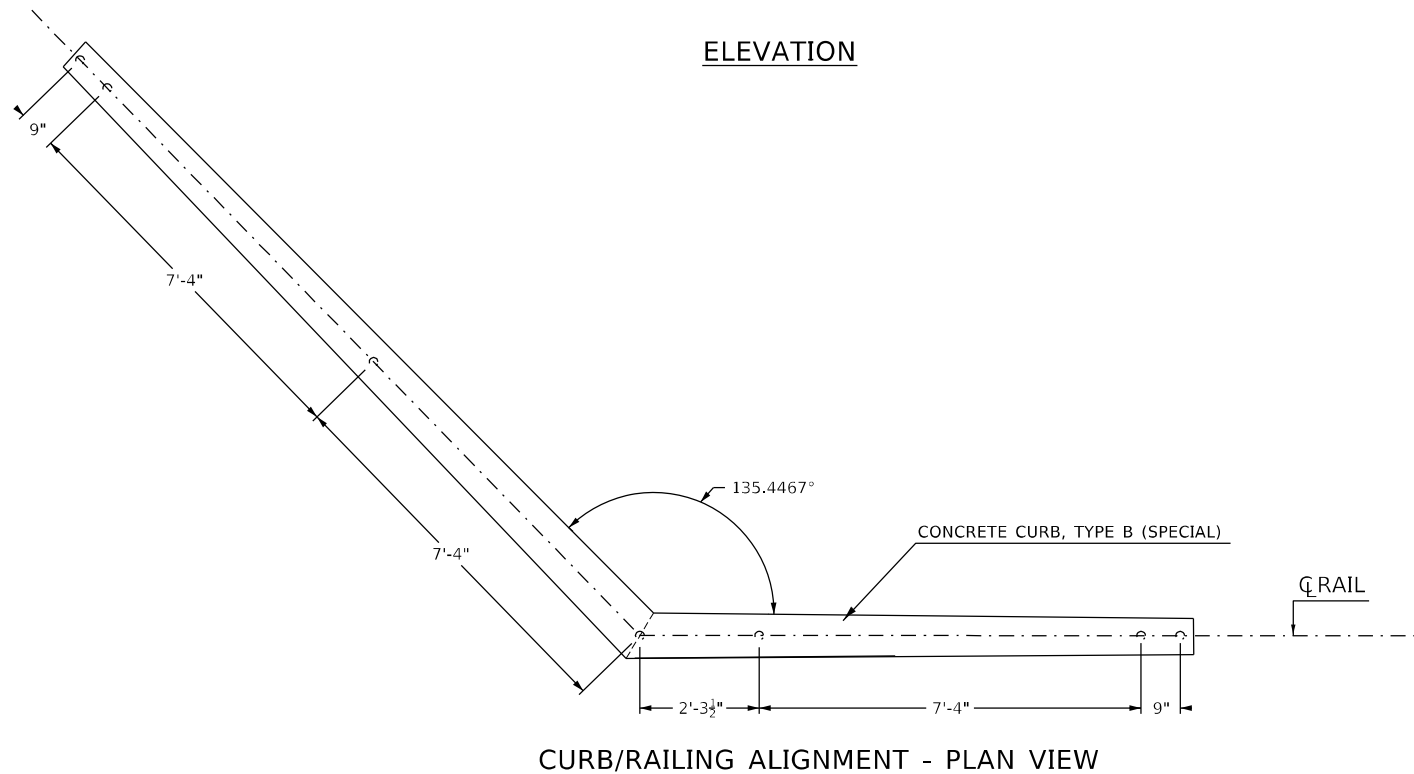
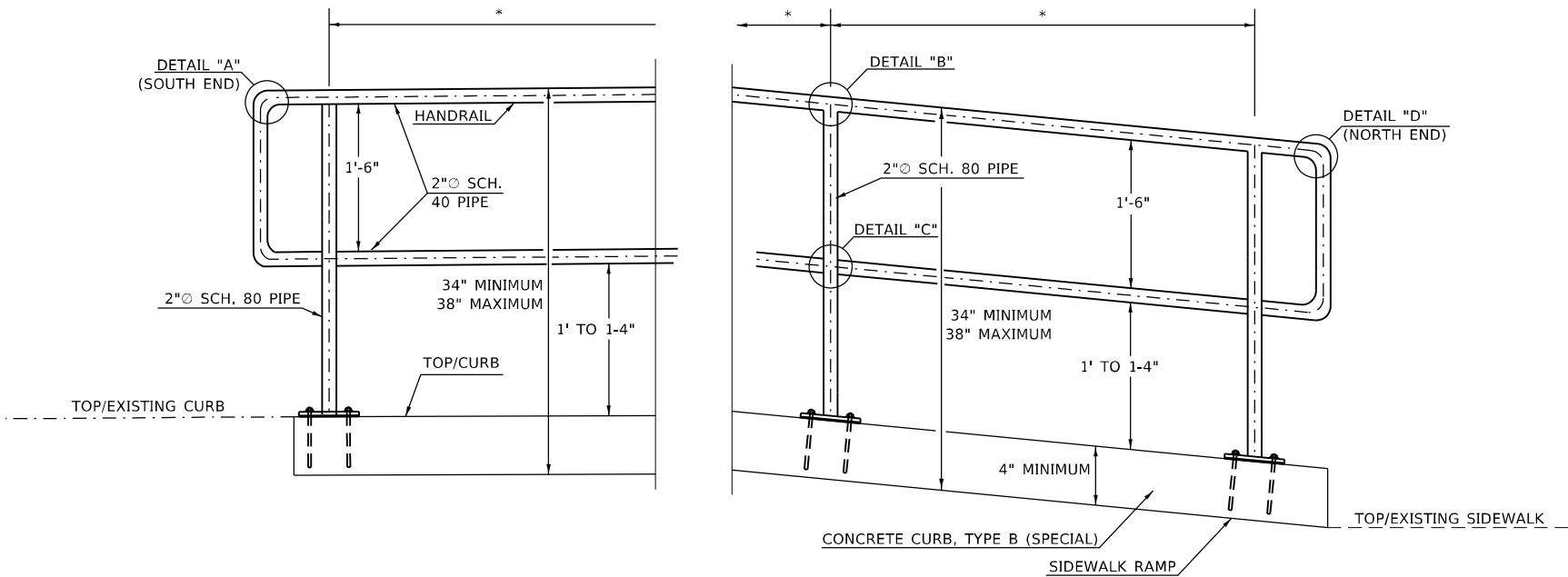
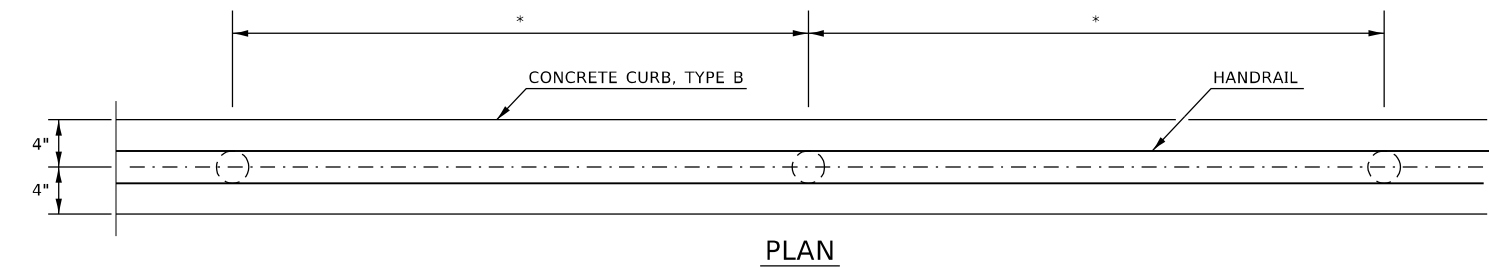
CURB REMOVAL (PARITAL) AND REPLACEMENT DETAILS
SE CORNER OF IL-16/US-45

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZR5-4	COLES	264	253
		CONTRACT NO. 74759		
		ILLINOIS	FED. AID PROJECT	

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PEDESTRIAN RAILING DETAILS



NOTES:

1. PEDESTRIAN RAILING SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF THE RAMP RUN - INCLUDING SWITCHBACKS
2. PEDESTRIAN RAILING GRIPPING SURFACES SHALL HAVE ROUNDED FACES.
3. PEDESTRIAN RAILING SHALL HAVE AN OUTER DIAMETER OF 2 INCHES.
4. ALL STEEL RAIL SECTIONS SHALL BE GALVANIZED AND SPECIFICATIONS SHALL BE ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 509 OF THE STANDARDS SPECIFICATIONS AS WELL AS THE DETAILS SHOWN IN THE PLANS.

* SEE CURB DETAILS FOR POST SPACING

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USER NAME = mona.steffen	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

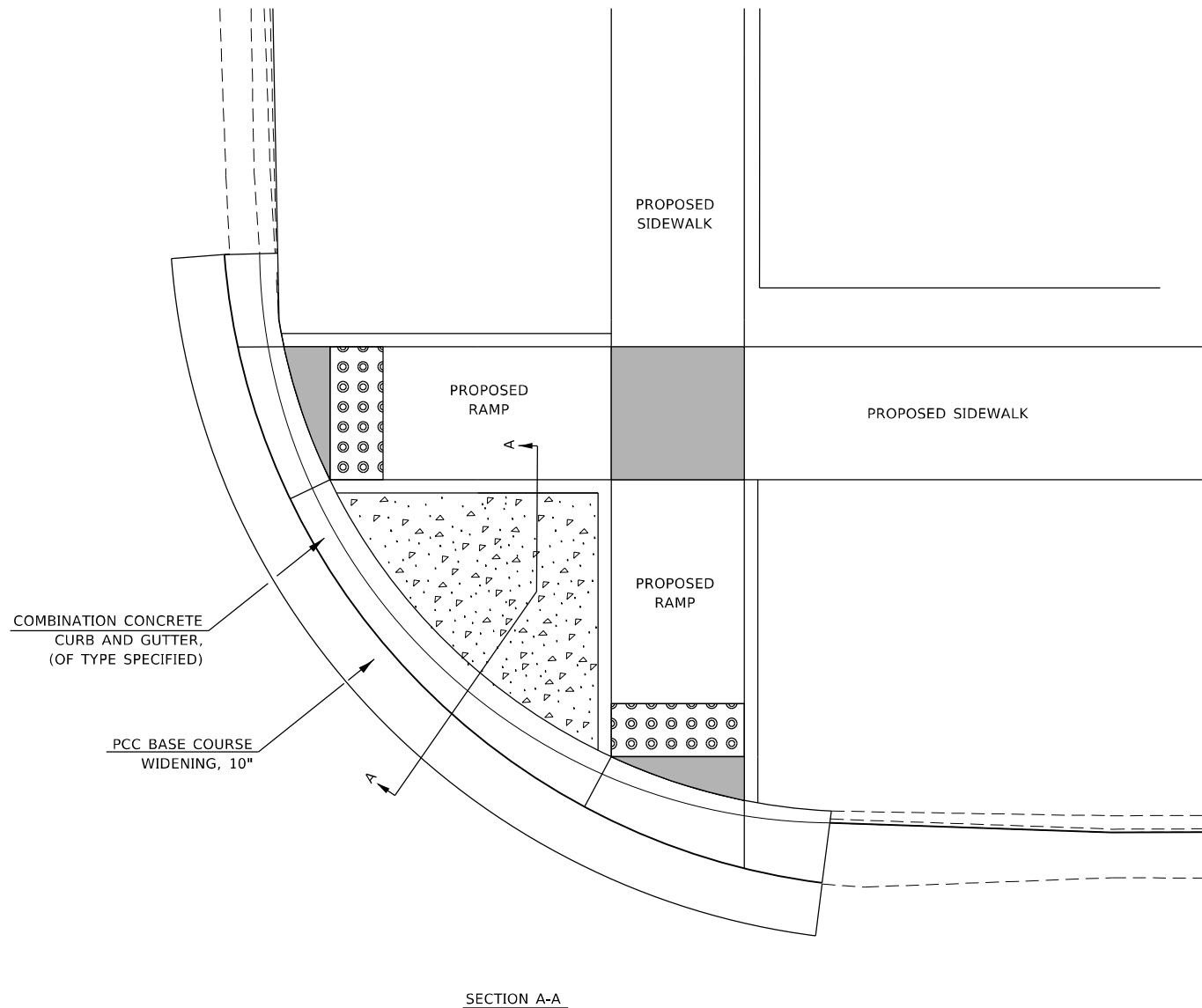
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN RAILING DETAILS

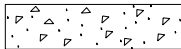
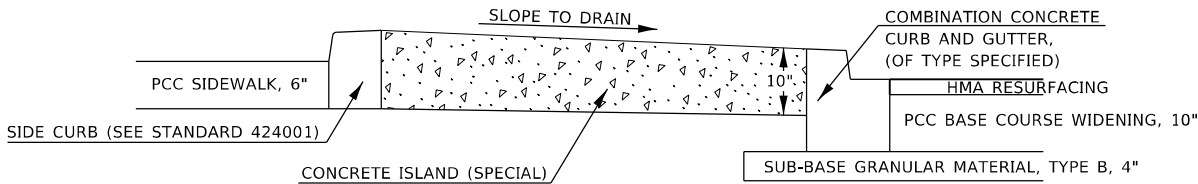
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	254
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

CONCRETE ISLAND (SPECIAL) DETAILS



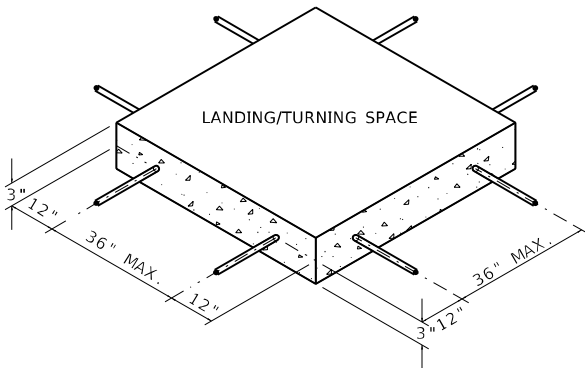
SECTION A-A



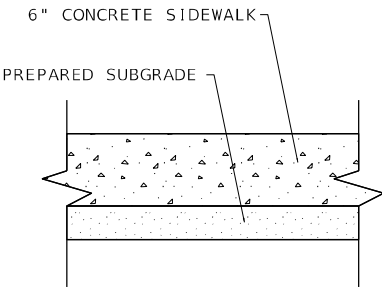
CONCRETE ISLAND (SPECIAL)

ADA CONSTRUCTION DETAILS

NOTE: TIE BARS SHALL BE OMITTED BETWEEN PROPOSED LANDING/TURNING SPACES AND PROPOSED TRANSITIONAL SEGMENTS



SIDEWALK REINFORCEMENT



TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER

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PLOT DATE = 7/10/2023	CHECKED -	REVISED -
	DATE -	REVISED -

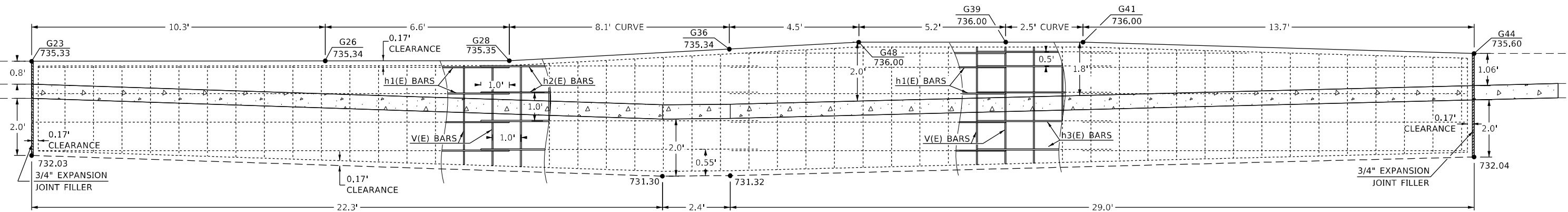
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ADA DETAILS

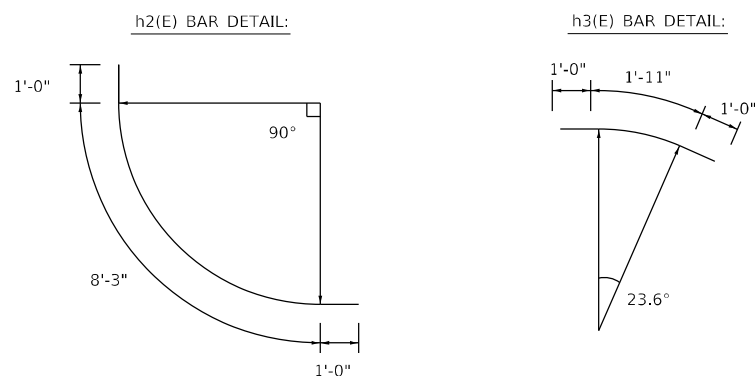
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	255
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

CONCRETE CURB, TYPE B (SPECIAL) DETAILS
NW QUADRANT 16TH ST.



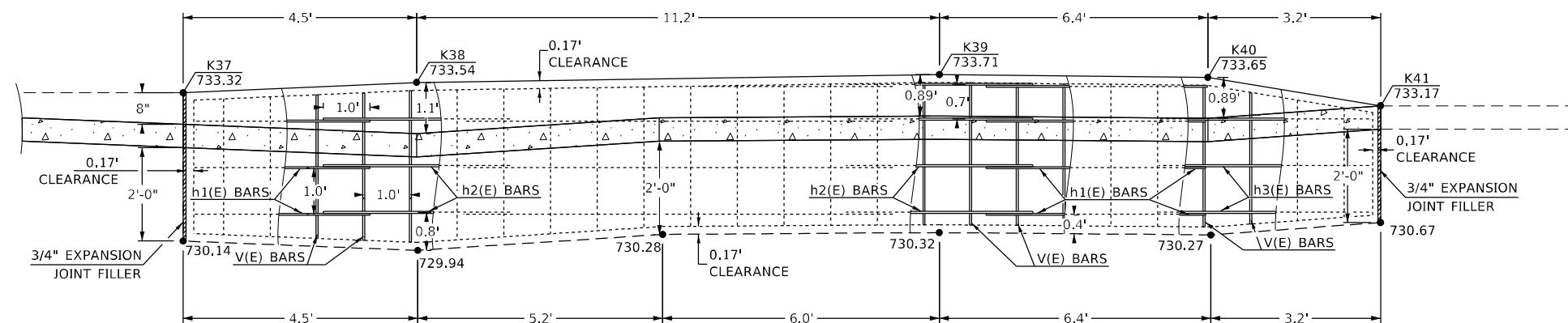
ELEVATION VIEW



BILL OF MATERIALS AND BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
v(E)	50	#4	* 180'-5"	_____
h1(E)	14	#4	* 203'-7"	_____
h2(E)	4	#4	10'-3"	⌒
h3(E)	5	#4	3'-11"	⌒
CLASS SI CONCRETE (CU. YD)				3.8
REINFORCEMENT BARS (POUND)				297.1

* - LENGTH INDICATES TOTAL LENGTH NEEDED.
LENGTHS OF INDIVIDUAL BARS WILL VARY.
ADDITIONAL LENGTHS THAT MAY BE NEEDED TO
LAP MULTIPLE h1(E) BARS NOT INCLUDED IN QUANTITY.

CONCRETE CURB, TYPE B (SPECIAL) DETAILS
NW QUADRANT 15TH ST.

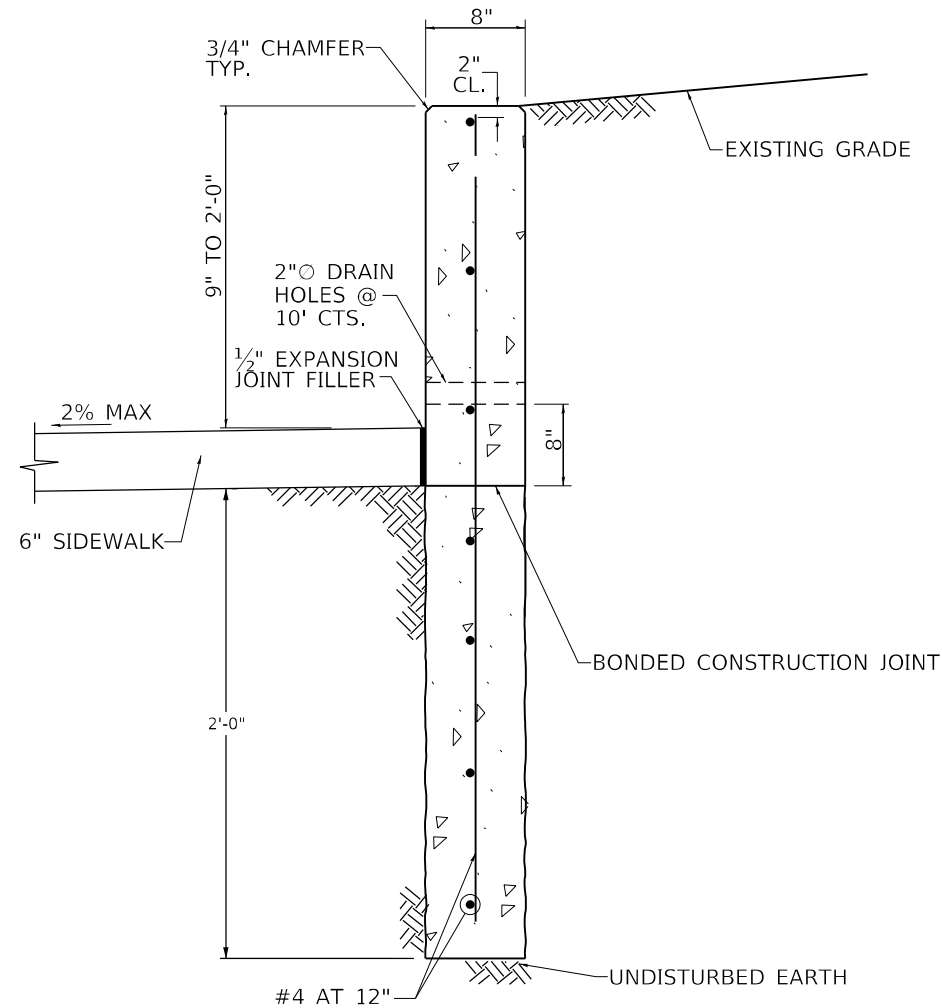


ELEVATION VIEW

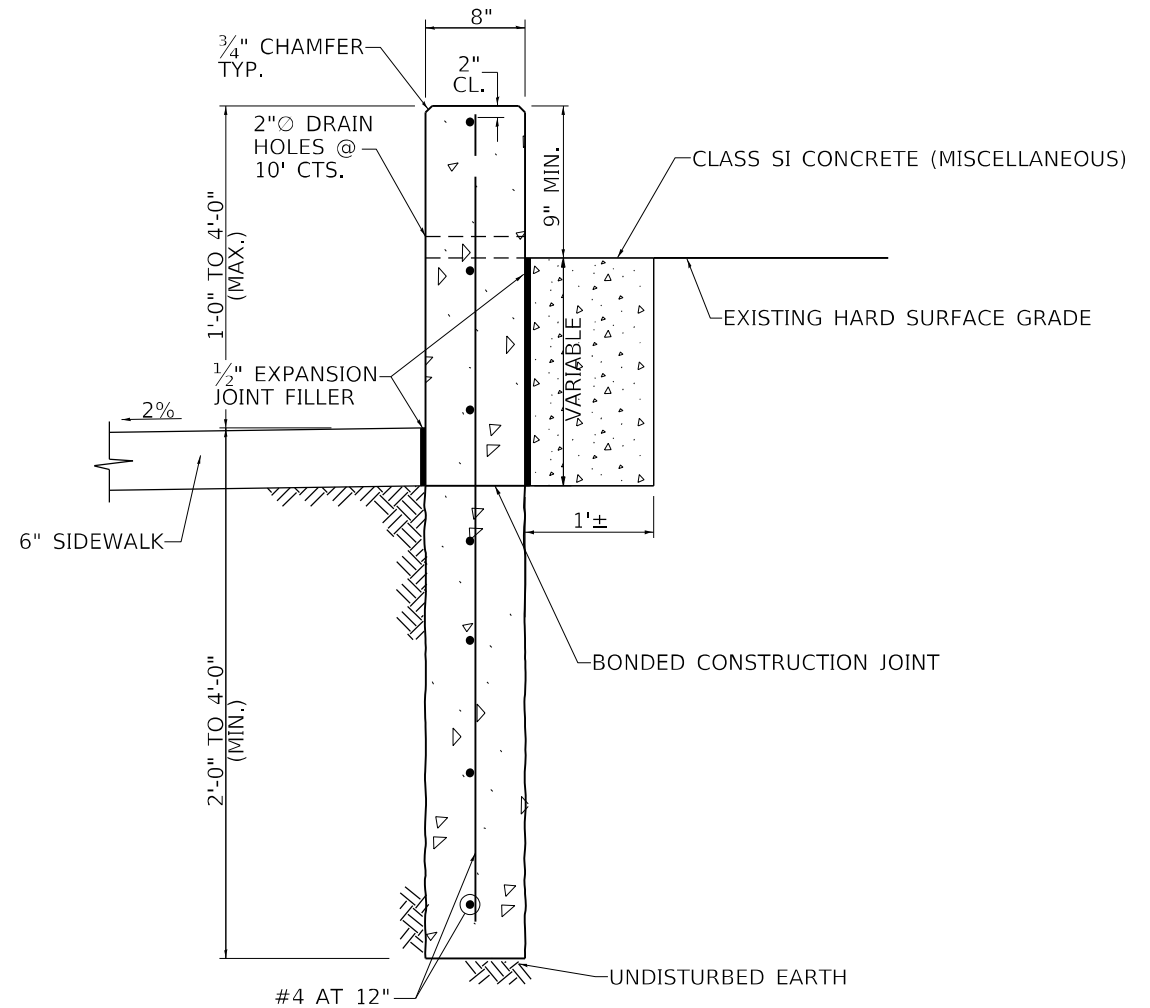


BILL OF MATERIALS AND BAR LIST				
BAR	NO.	SIZE	LENGTH	SHAPE
v(E)	25	#4	* 75'-2"	_____
h1(E)	11	#4	* 61'-11"	_____
h2(E)	7	#4	4'-0"	└
h3(E)	3	#4	4'-6"	└
CLASS SI CONCRETE (CU. YD)				1.6
REINFORCEMENT BARS (POUND)				119.3

* - LENGTH INDICATES TOTAL LENGTH NEEDED.
LENGTHS OF INDIVIDUAL BARS WILL VARY.
ADDITIONAL LENGTHS THAT MAY BE NEEDED TO
LAP MULTIPLE h1(E) BARS NOT INCLUDED IN QUANTITY.



CONCRETE CURB, TYPE B (SPECIAL)
EARTH RETAINMENT



CONCRETE CURB, TYPE B (SPECIAL)
HARD SURFACE RETAINMENT

GENERAL NOTES

1. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 508 OF THE STANDARD SPECIFICATIONS. THE COST OF FURNISHING AND INSTALLING ALL REINFORCEMENT SHALL BE INCLUDED IN THE COST PER FT. OF CONCRETE CURB, TYPE B (SPECIAL).
2. CONCRETE SHALL BE CLASS SI CONCRETE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS. THE EXPOSED FACES OF THE WALL SHALL BE A TEXTURED FINISH. FORM LINERS SHALL BE USED ON THE EXPOSED VERTICAL FACES AS DIRECTED AND APPROVED BY THE ENGINEER. ALL TRENCHES, REINFORCEMENT AND FORMWORK SHALL BE APPROVED BY THE ENGINEER PRIOR TO POURING CONCRETE WALLS OR FOOTINGS. THE COST OF CONSTRUCTING WALL AND STEPS IN PLACE, INCLUDING ALL FORM WORK, FORM LINERS, TRENCHING, EXCAVATIONS, BACKFILL AND JOINT FILLERS SHALL BE INCLUDED IN THE COST PER FOOT OF CONCRETE CURB, TYPE B (SPECIAL).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EARTH RETENTION SYSTEMS AS REQUIRED TO CONSTRUCT WALL TO PREVENT PROPERTY DAMAGE. ANY PROPERTY DAMAGE SHALL BE REPAIRED PER SECTION 107 OF THE STANDARD SPECIFICATIONS.

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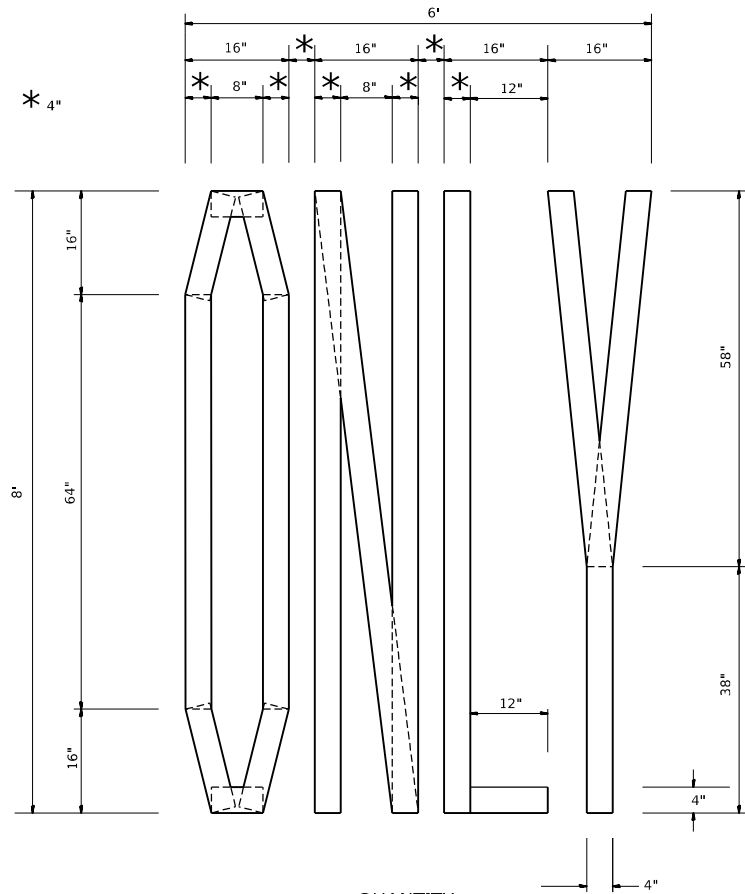
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DRAWN -	REVISED -	
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE CURB, TYPE B (SPECIAL) DETAILS

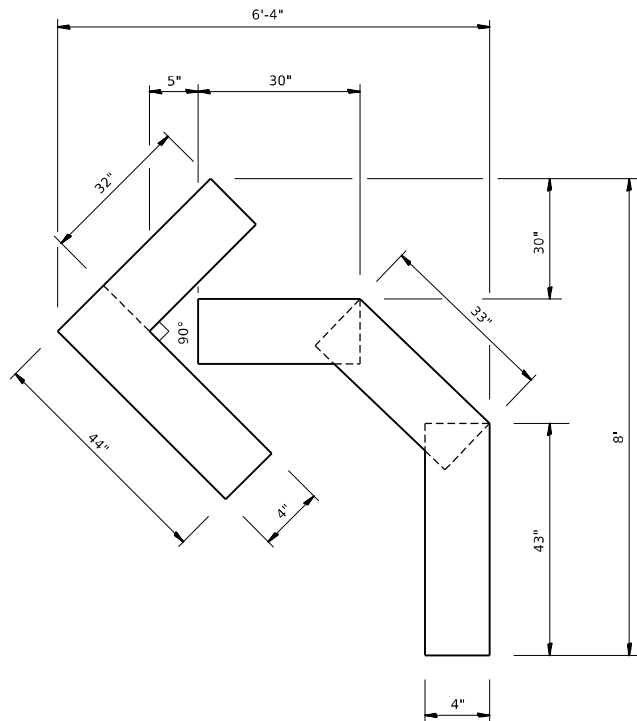
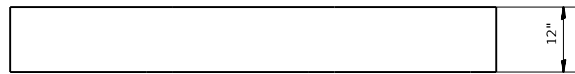
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	257
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

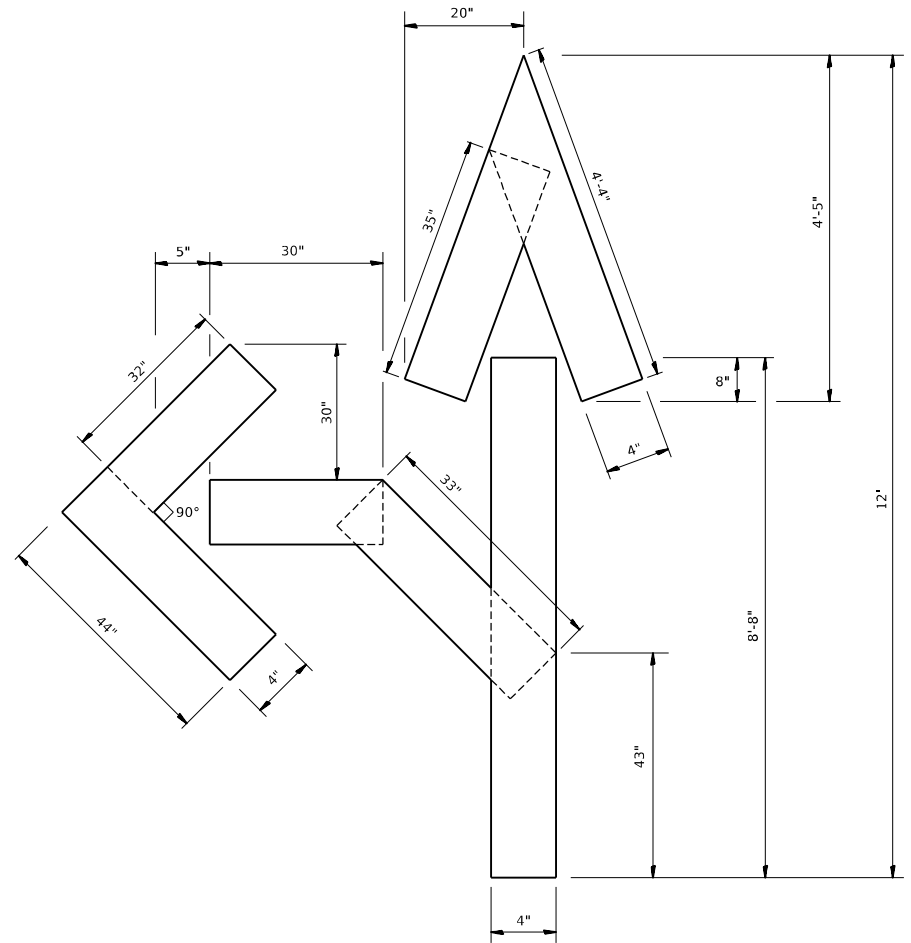


QUANTITY
4" LINE = 63.2 ft.
21.0 sq. ft.

SHORT TERM STOP BAR



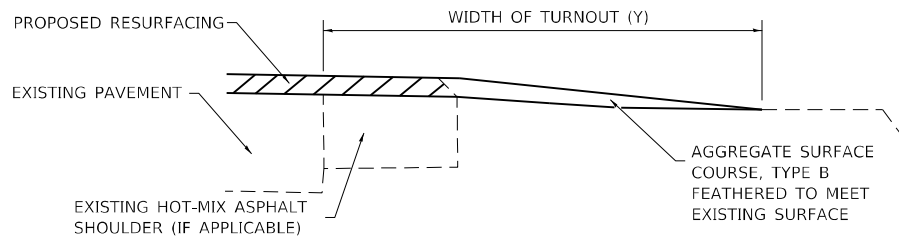
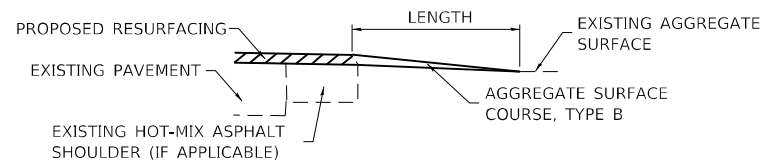
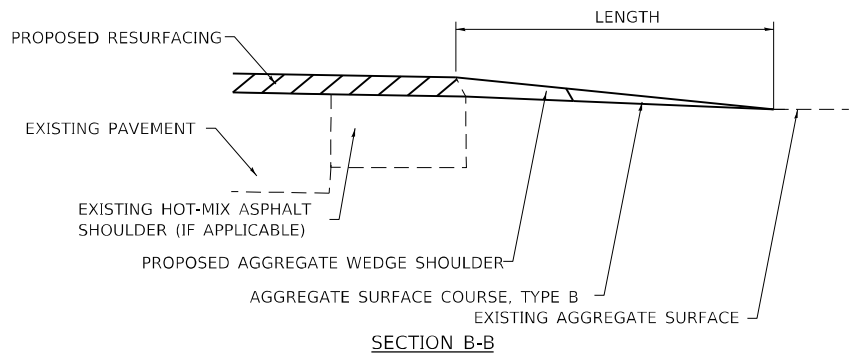
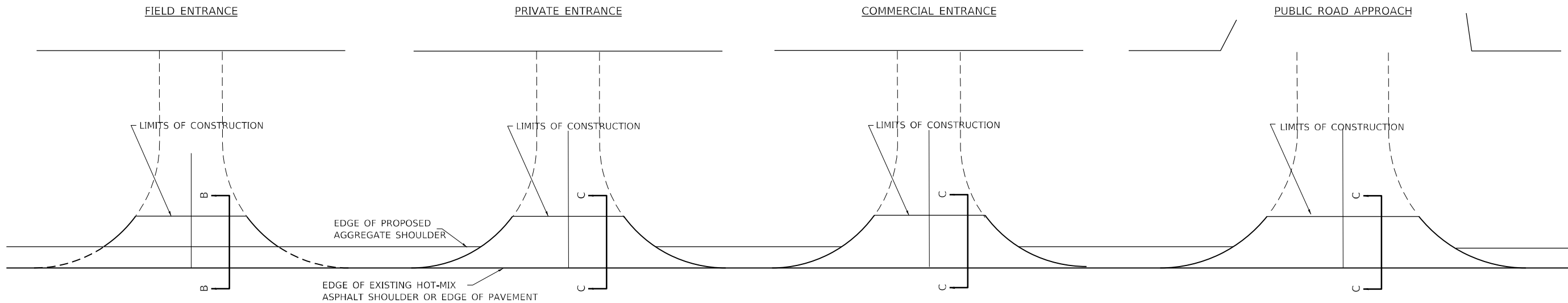
QUANTITY
4" LINE = 15.2 ft.
5.0 sq. ft.



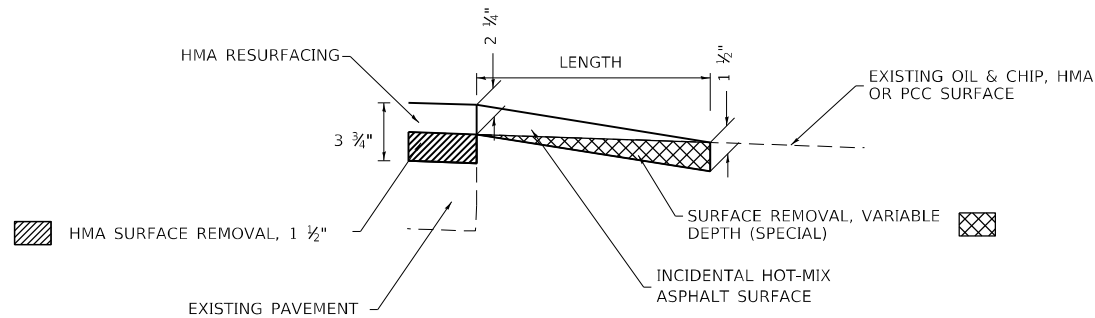
QUANTITY
4" LINE = 27.5 ft.
9.2 sq. ft.

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		DRAWN -	REVISED -					325	50ZRS-4	COLES	264	258
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 74759				
	PLOT DATE = 7/10/2023	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS



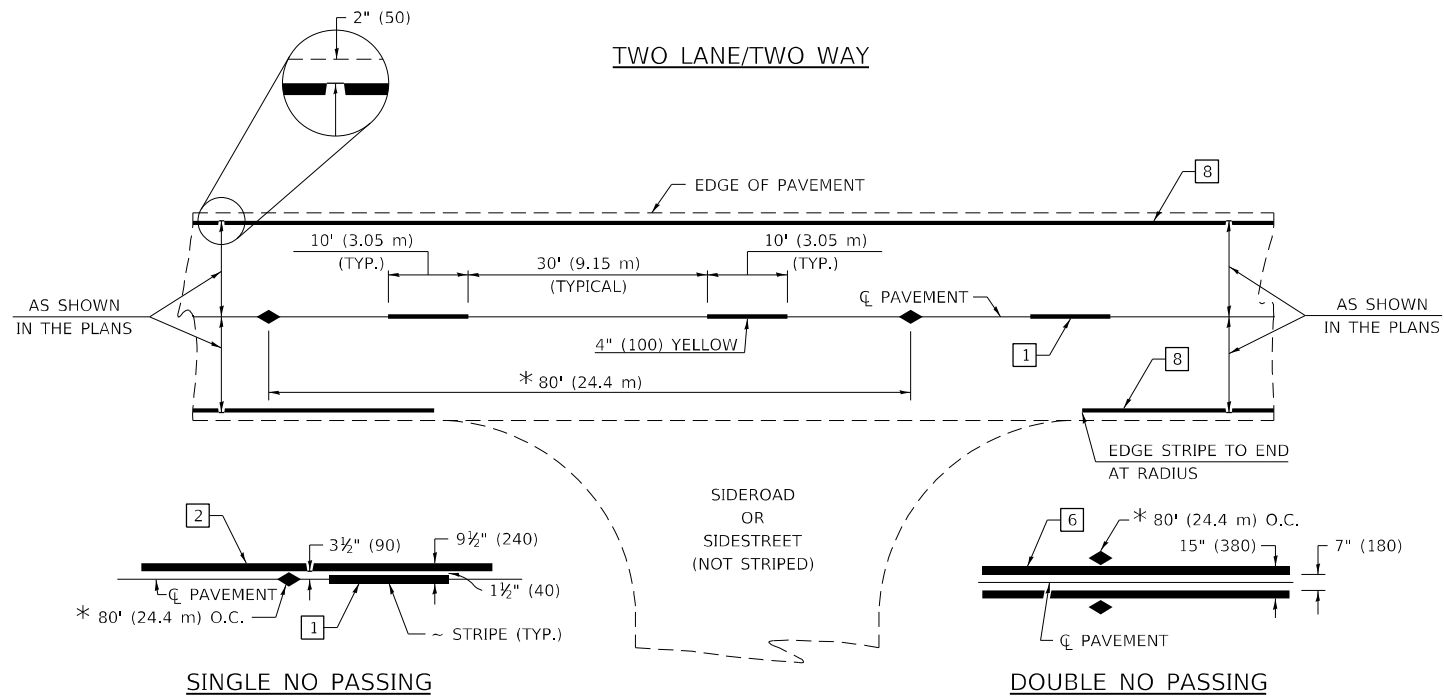
NOTES

LENGTH = 10' UNLESS OTHERWISE NOTED ON PLANS

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

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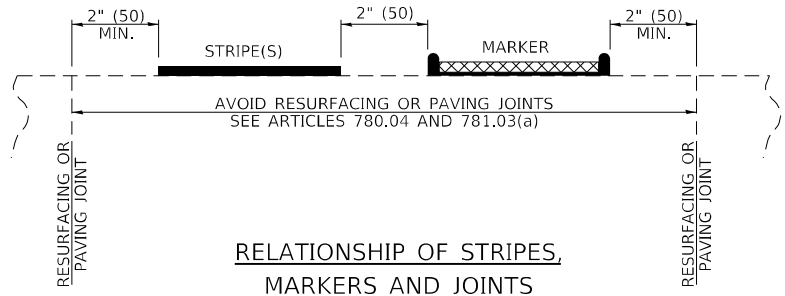
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		DRAWN -	REVISED -						325	50ZRS-4	COLES	264	259
	PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 74759				
	PLOT DATE = 7/10/2023	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		



PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

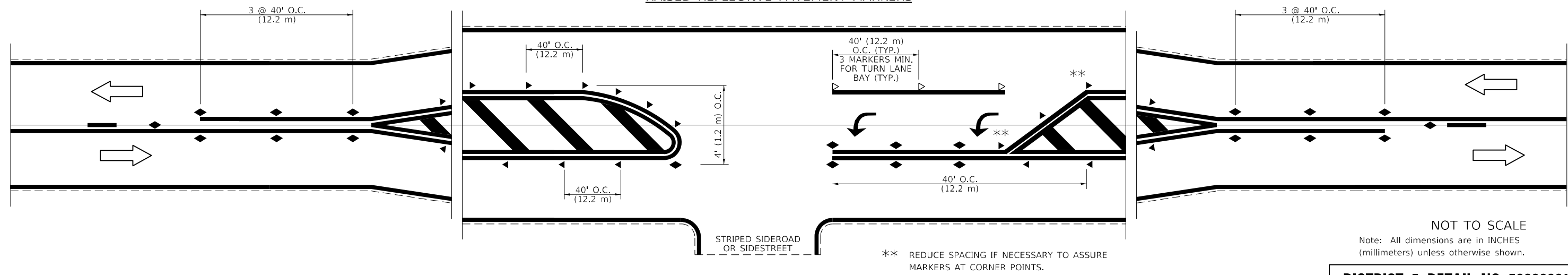
RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	260
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

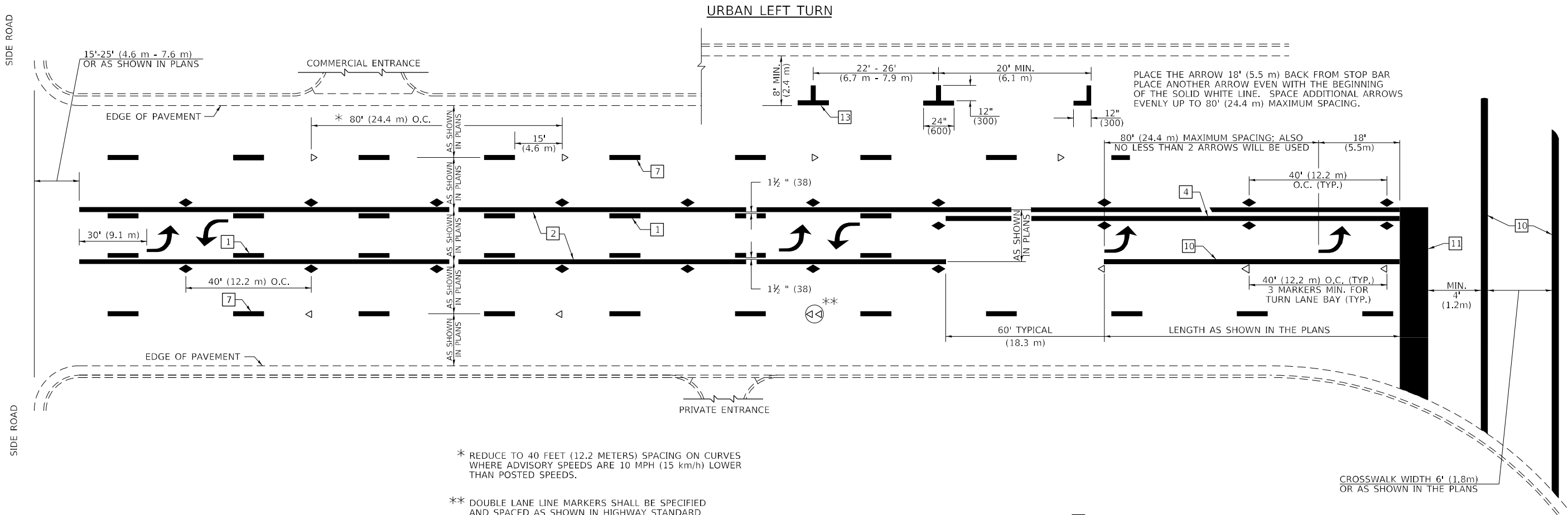
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PLOT DATE = 7/10/2023	DATE -	REVISED -

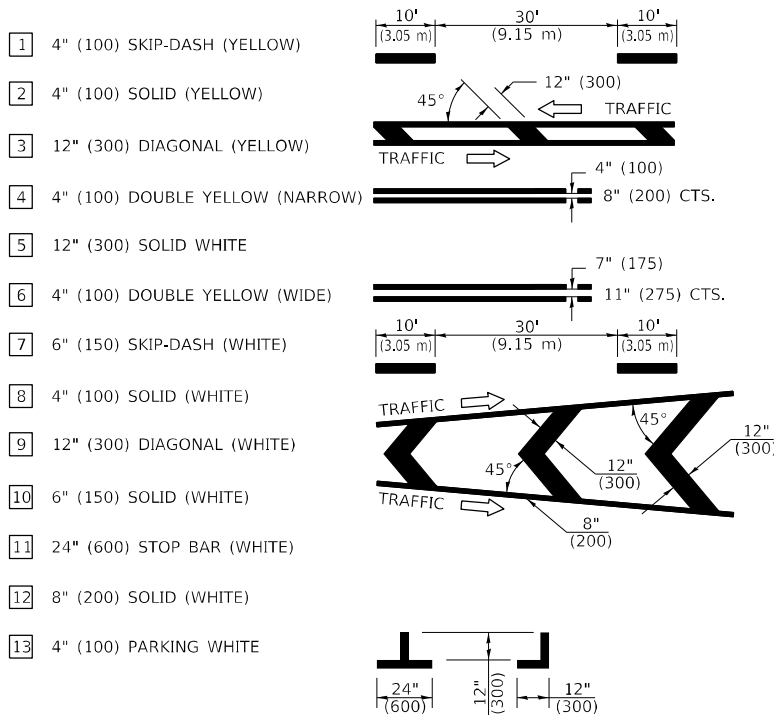
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)

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

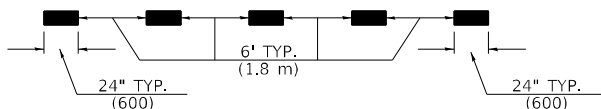


PAVEMENT MARKING LEGEND

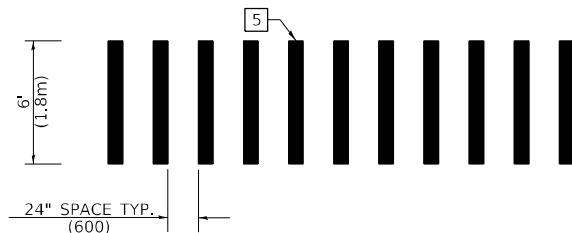


GENERAL NOTES

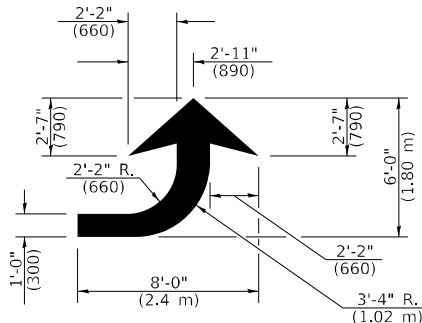
- TURN ARROW PAIRS SHALL BE PLACED AT 250'(75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
- USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE SECTION 780 FOR SYMBOLS TABLE)
- LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.
- ALL WHITE SKIP-DASH LINES SHALL BE 6" IN WIDTH.



LANE LINE EXTENSIONS

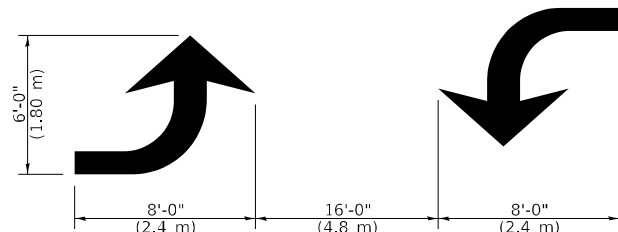


CROSSWALK DETAIL
(DECATUR CITY LIMITS ONLY)



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



TYPICAL DOUBLE
TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES
(millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	261
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

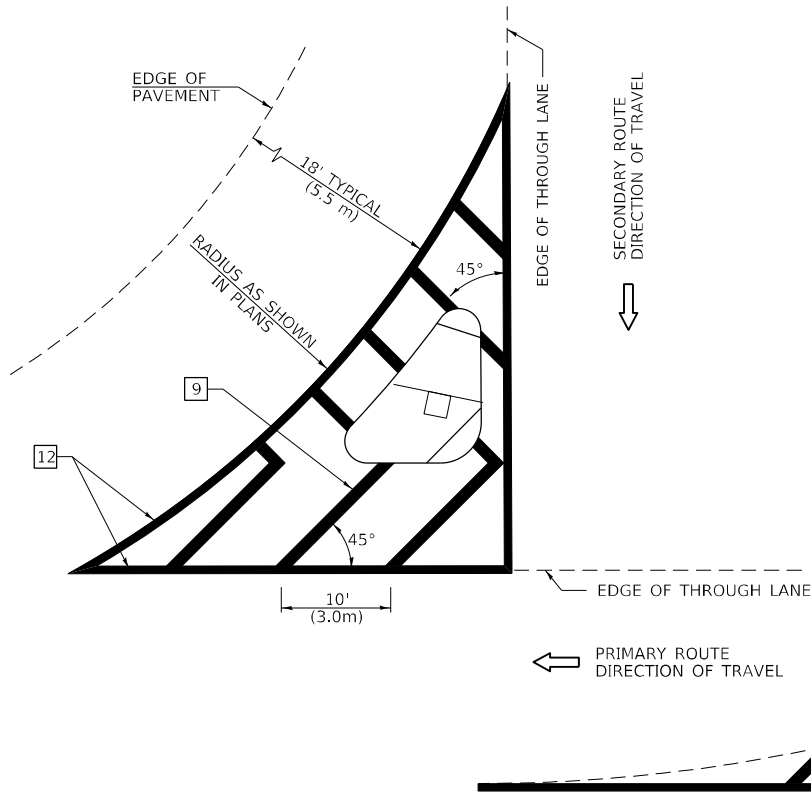
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)

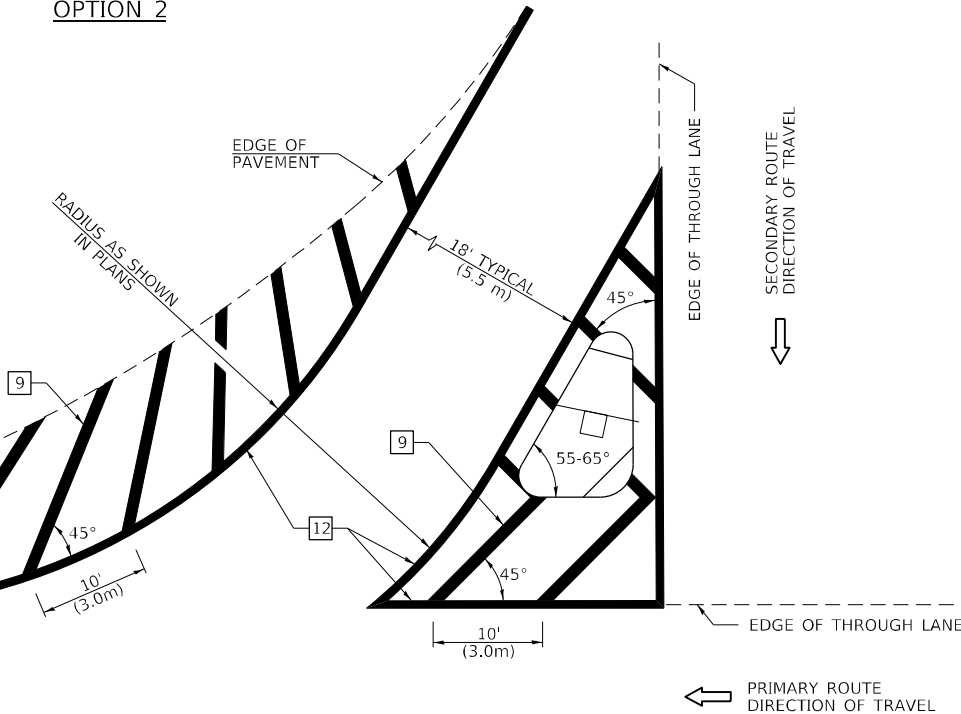
SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

ISLANDS

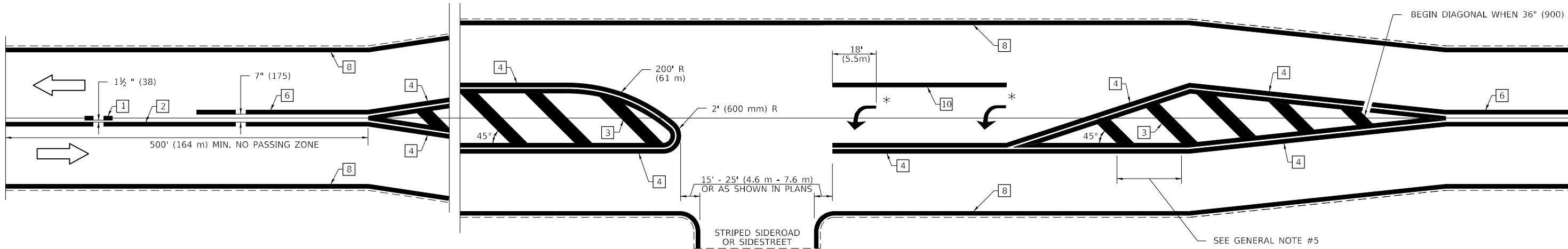
OPTION 1



OPTION 2



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM END OF THE SOLID WHITE LINE. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

GENERAL NOTES

1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2].
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

<30 MPH (<50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
>45 MPH (>75 km/h)	30' (9.0 m)
6. THE USE OF ISLAND STRIPING OPTION 1 OR OPTION 2 SHALL BE AS SHOWN ON THE PLANS.

PAVEMENT MARKING LEGEND

- | | | |
|------|---------------------------------|--|
| [1] | 4" (100) SKIP-DASH (YELLOW) | |
| [2] | 4" (100) SOLID (YELLOW) | |
| [3] | 12" (300) DIAGONAL (YELLOW) | |
| [4] | 4" (100) DOUBLE YELLOW (NARROW) | |
| [5] | 12" (300) SOLID WHITE | |
| [6] | 4" (100) DOUBLE YELLOW (WIDE) | |
| [7] | 6" (150) SKIP-DASH (WHITE) | |
| [8] | 4" (100) SOLID (WHITE) | |
| [9] | 12" (300) DIAGONAL (WHITE) | |
| [10] | 6" (150) SOLID (WHITE) | |
| [11] | 24" (600) STOP BAR (WHITE) | |
| [12] | 8" (200) SOLID (WHITE) | |
| [13] | 4" (100) PARKING WHITE | |

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	262
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)

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

USER NAME = mona.steffen	DESIGNED -	REVISED -
DRAWN -	REVISED -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

PAVEMENT MARKING LEGEND

- 1

4" (100) SKIP-DASH (YELLOW)

2

4" (100) SOLID (YELLOW)

3

12" (300) DIAGONAL (YELLOW)

4

4" (100) DOUBLE YELLOW (NARROW)

5

12" (300) SOLID WHITE

6

4" (100) DOUBLE YELLOW (WIDE)

7

6" (150) SKIP-DASH (WHITE)

8

4" (100) SOLID (WHITE)

9

12" (300) DIAGONAL (WHITE)

10

6" (150) SOLID (WHITE)

11

24" (600) STOP BAR (WHITE)

12

8" (200) SOLID (WHITE)

13

4" (100) PARKING WHITE
- 10'

(3.05 m)

30'

(9.15 m)

10'

(3.05 m)

12" (300)

45°

TRAFFIC

TRAFFIC

4" (100)

8" (200) CTS.

7" (175)

11" (275) CTS.

10'

(3.05 m)

30'

(9.15 m)

10'

(3.05 m)

TRAFFIC

45°

12" (300)

45°

12" (300)

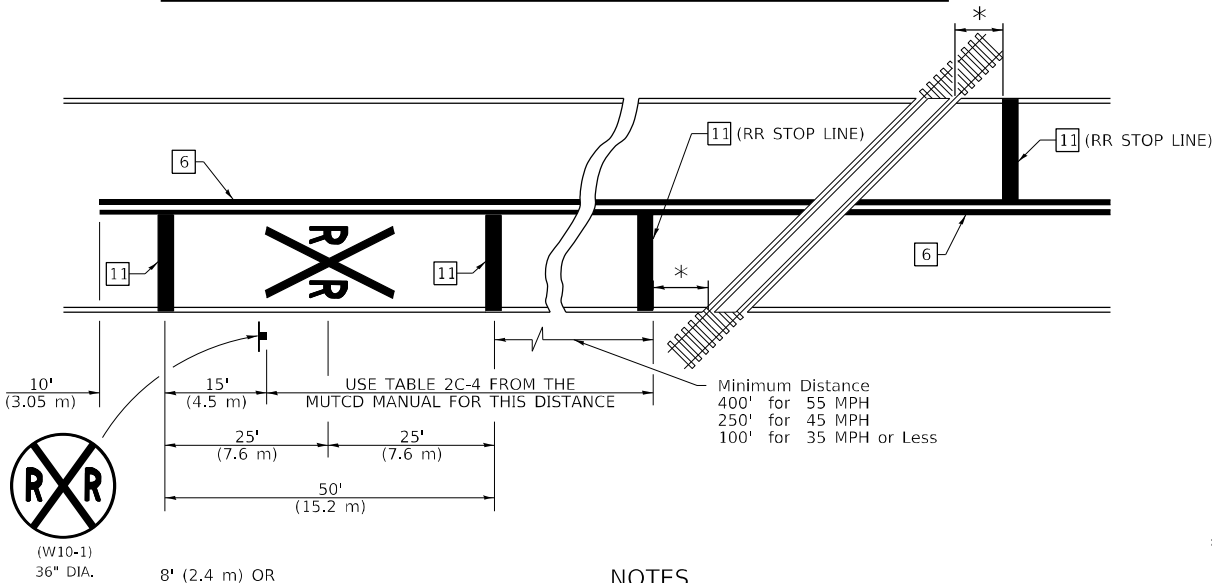
8" (200)

24" (600)

12" (300)

12" (300)

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



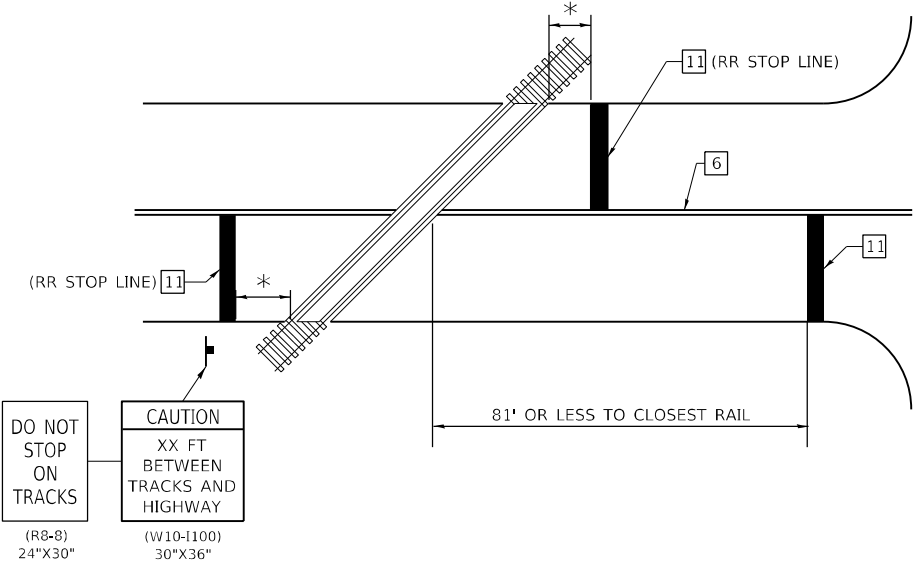
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

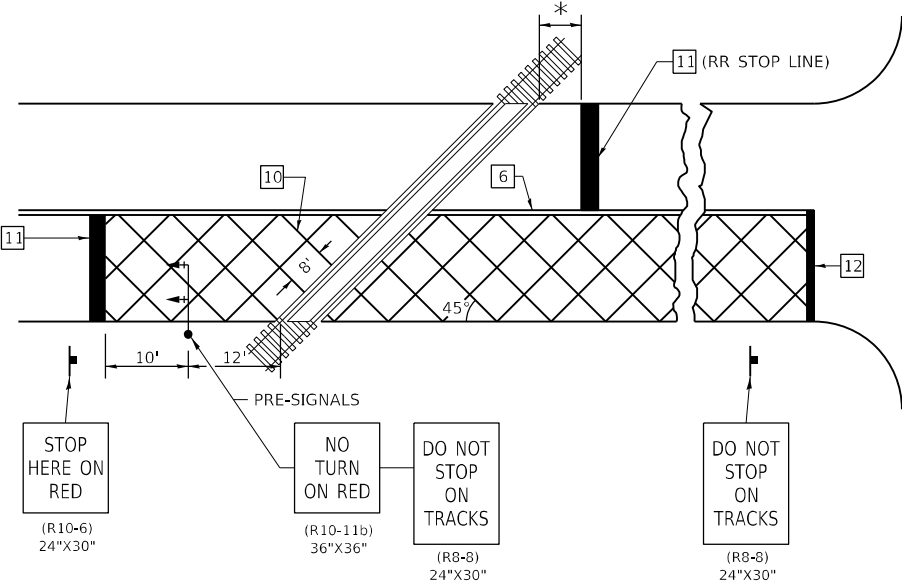
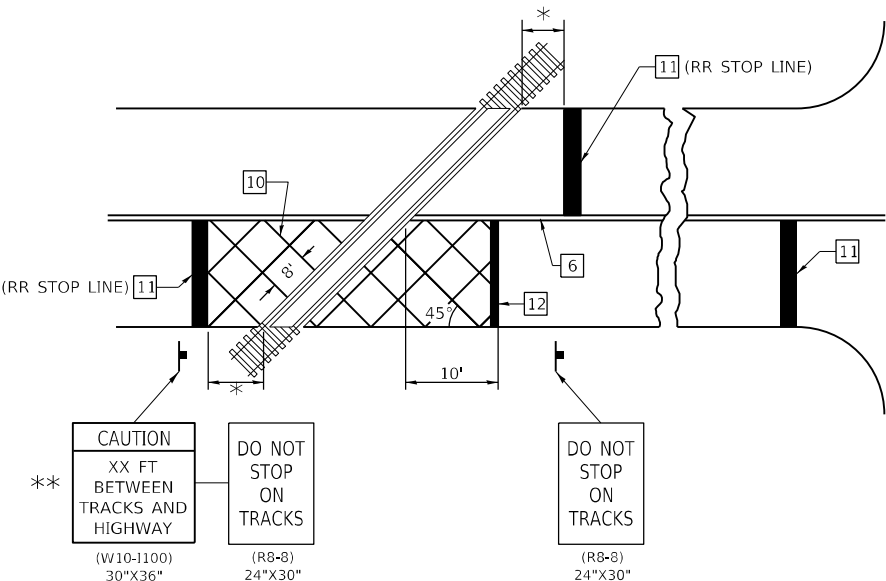
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

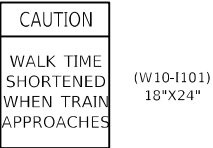
RAILROAD CROSSING WITH NON-SIGNALIZED INTERSECTION



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



- GENERAL NOTES
- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
 - EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE PRE-SIGNALS ARE USED.
 - WHEN PEDESTRIAN SIGNALS ARE PRESENT WITH INTERCONNECTED SIGNALS, WARNING SIGN W10-1101 (18"x24") SHALL BE PLACED NEAR EACH PEDESTRIAN SIGNAL HEAD. COUNTDOWN PEDESTRIAN SIGNAL HEADS SHALL NOT BE UTILIZED ALONG WITH INTERCONNECTED SIGNALS.
 - PLEASE REFER TO THE IDOT BUREAU OF OPERATION MEMO OPS T-06 DATED DECEMBER 1, 2020 FOR ADDITIONAL INFORMATION



- * 15' FROM NEAR RAIL OR 8' FROM AND PARALLEL TO GATE IF PRESENT
- ** WARNING SIGN W10-1100 SHALL BE USED AS AN INTERIM MEASURE AT INTERCONNECTED SIGNAL LOCATIONS WHERE PRE-SIGNALS ARE TO BE INSTALLED IN THE FUTURE. THIS SIGN SHALL BE REMOVED WHEN THE PRE-SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS ARE EXTENDED TO THE INTERSECTION.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	263
CONTRACT NO. 74759				
ILLINOIS FED. AID PROJECT				

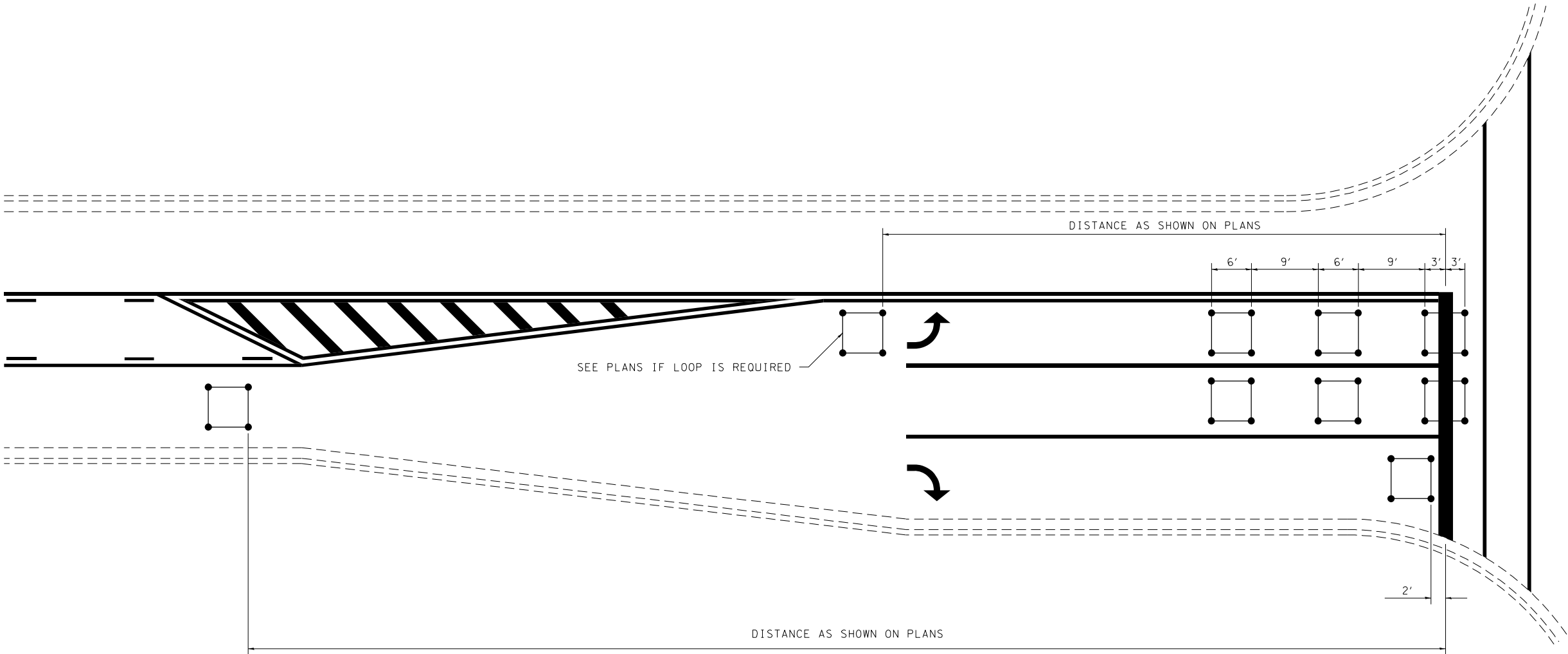
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL AND URBAN APPLICATIONS)

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

USER NAME = mona.steffen	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/10/2023	CHECKED -	REVISED -
	DATE -	REVISED -

TYPICAL APPLICATION OF DETECTOR LOOPS



- NOTE:
- 1. EACH LOOP SHALL HAVE ITS OWN HOMERUN TO THE GULFBOX/HANDHOLE.
 - 2. LOOPS SHOULD BE CENTERED IN EACH LANE.
 - 3. USE 6' BY 6' LOOPS FOR LANE WIDTHS OF 11' OR GREATER.
 - 4. USE 5' BY 5' LOOPS IF LANE WIDTH IS LESS THAN 11'.

NOT TO SCALE

DISTRICT 7 DETAIL NO. 88600100				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	50ZRS-4	COLES	264	264
CONTRACT NO. 74759				
		ILLINOIS	FED. AID PROJECT	

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	USER NAME = mona.steffen	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/10/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATION OF DETECTOR LOOPS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.