

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	58	1
		ILLINOIS	CONTRACT NO. 80C62	

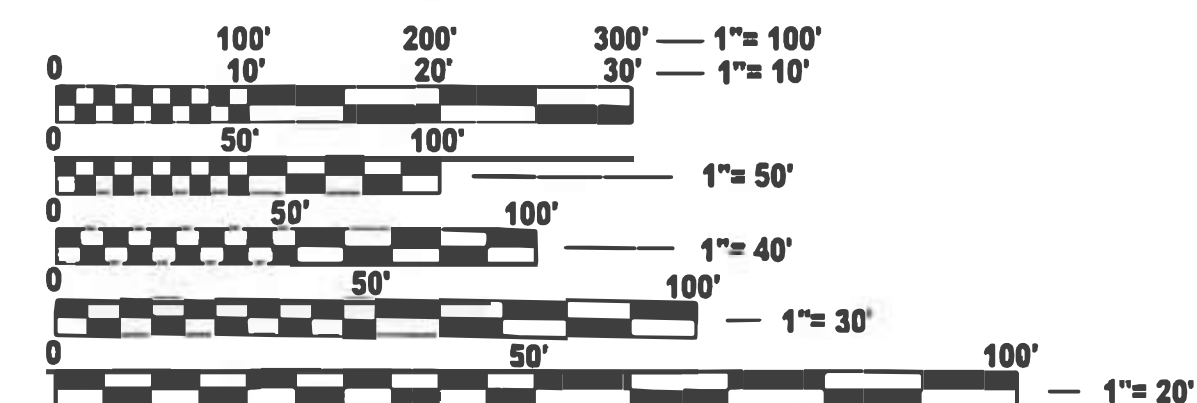
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**THE IMPORVEMENT IS LOCATED
IN THE VILLAGES OF BUFFALO GROVE,
LINCOLNSHIRE & RIVERWOODS****TRAFFIC DATA**US 45 (MILWAUKEE AVE.) 2023 ADT = 31895
POSTED SPEED LIMIT = 35-45 MPH**PROPOSED
HIGHWAY PLANS****FAP ROUTE 330 (IL 21/US 45)
SECTION: 2025-2116-RS,SW
PROJECT: NHPP-JT47 (836)
SMART OVERLAY, ADA IMPROVEMENT
LAKE COUNTY**

C-91-164-26

PROJECT ENDS
STA. 161 + 86

R11E

RESURFACING OMISSION
STA. 36+ 79 to 38+15FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.**J.U.L.I.E.**
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811**PROJECT ENGINEER : LUKASZ POCIECHA (847-705-4255)
PROJECT MANAGER : VESELIN VELICHKOV****CONTRACT NO. 80C62**GROSS LENGTH = 14,698 FT. = 2.78 MILE
NET LENGTH = 14562 FT. = 2.75 MILEPROJECT BEGINS
STA. 14+88

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
SUBMITTED August 10, 2026 Jone Rive	REGIONAL ENGINEER
October 2, 2026 S. E. A. E. T. K.	ENGINEER OF DESIGN AND ENVIRONMENT
October 2, 2026 J. R. R. R. R. R.	DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

MODEL: SOQ-01 (Sheet)
FILE NAME: c:\pwr_work\kwid\illinois.gov_merin.jose@illinois.gov\d1166031D113826-sh1-SOQ.dgn

SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	TRAFFIC	DRAINAGE			
					80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE			
	Code No.	Item	Unit	Total Quantity	0005	0021	0043			
	20101200	TREE ROOT PRUNING	EACH	5	5					
	20200100	EARTH EXCAVATION	CU YD	125	125					
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	995	995					
	21400100	GRADING AND SHAPING DITCHES	FOOT	1157	1157					
	25200110	SODDING, SALT TOLERANT	SQ YD	995	995					
	25200200	SUPPLEMENTAL WATERING	UNIT	9.9	9.9					
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5047	5047					
	40600370	LONGITUDINAL JOINT SEALANT	FOOT	59787	59787					
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	153	153					
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	531	531					
	40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	9892	9892					
	42001300	PROTECTIVE COAT	SQ YD	2226	2226					
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5347	5347					
	42400800	DETECTABLE WARNINGS	SQ FT	295	295					
	44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	100930	100930					
	44000600	SIDEWALK REMOVAL	SQ FT	3876	3876					
	44201811	CLASS D PATCHES, TYPE I, 14 INCH	SQ YD	10	10					
	44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	7	7					
	44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	40	40					
	44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	147	147					
	45200100	JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)	FOOT	5616.6	5616.6					
	45200300	JOINT OR CRACK FILLING	POUND	1604.7	1604.7					

SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	TRAFFIC	DRAINAGE			
					80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE			
	Code No.	Item	Unit	Total Quantity	0005	0021	0043			
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1244	1244					
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1			
	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2					
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2					
	60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	18	18					
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	46	46					
	60404950	FRAMES AND GRATES, TYPE 24	EACH	5	5					
	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	3	3					
	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2	2					
☐	60905305	BOX CULVERTS TO BE CLEANED	FOOT	60			60			
☐	60920012	PIPE CULVERTS TO BE CLEANED 12"	FOOT	125			125			
☐	60920015	PIPE CULVERTS TO BE CLEANED 15"	FOOT	30			30			
☐	60920018	PIPE CULVERTS TO BE CLEANED 18"	FOOT	75			75			
☐	60920024	PIPE CULVERTS TO BE CLEANED 24"	FOOT	172			172			
*	66900205	SPECIAL WASTE DISPOSAL	CU YD	50	50					
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1					
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1					
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5					
	67100100	MOBILIZATION	L SUM	1	1					
	70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1					
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					

☐ NON-PART 100% STATE * = SPECIALITY ITEMS

		USER NAME = merin.jose	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES US 45 (MILWAUKEE AVE.) S OF IL 22 (HALF DAY RD) TO CHEVY CHASE DR.		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN -	REVISED -					330	2025-2116-RS,SW	LAKE	61	3
			CHECKED -	REVISED -					CONTRACT NO. 80C62				
		PLOT DATE = 8/17/2026	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
		SCALE:		SHEET 1	OF 3	SHEETS	STA.	TO STA.					

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SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	TRAFFIC	DRAINAGE			
					80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE			
	Code No.	Item	Unit	Total Quantity	0005	0021	0043			
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					
	70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1					
	70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1					
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	12688	12688					
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4230	4230					
	70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	2258	2258					
	70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	40630	40630					
	70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	5083	5083					
	70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	151	151					
	70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	1369	1369					
	70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	829	829					
	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	12687	12687					
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2258	2258					
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	40630	40630					
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5083	5083					
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	420	420					
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1369	1369					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	829	829					
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	37	37					
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2090	2090					

SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	TRAFFIC	DRAINAGE			
					80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE			
	Code No.	Item	Unit	Total Quantity	0005	0021	0043			
*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	167	167					
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	164	164					
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1070	1070					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1070	1070					
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6		6				
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	17		17				
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6		6				
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	902		902				
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	928		928				
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	424		424				
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	212		212				
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5702		5702				
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	55		55				
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	5		5				
*	87900200	DRILL EXISTING HANDHOLE	EACH	3		3				
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4				
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	10		10				
*	88600100	DETECTOR LOOP, TYPE I	FOOT	3027		3027				
*	89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2				
*	89502200	MODIFY EXISTING CONTROLLER	EACH	2		2				
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2				

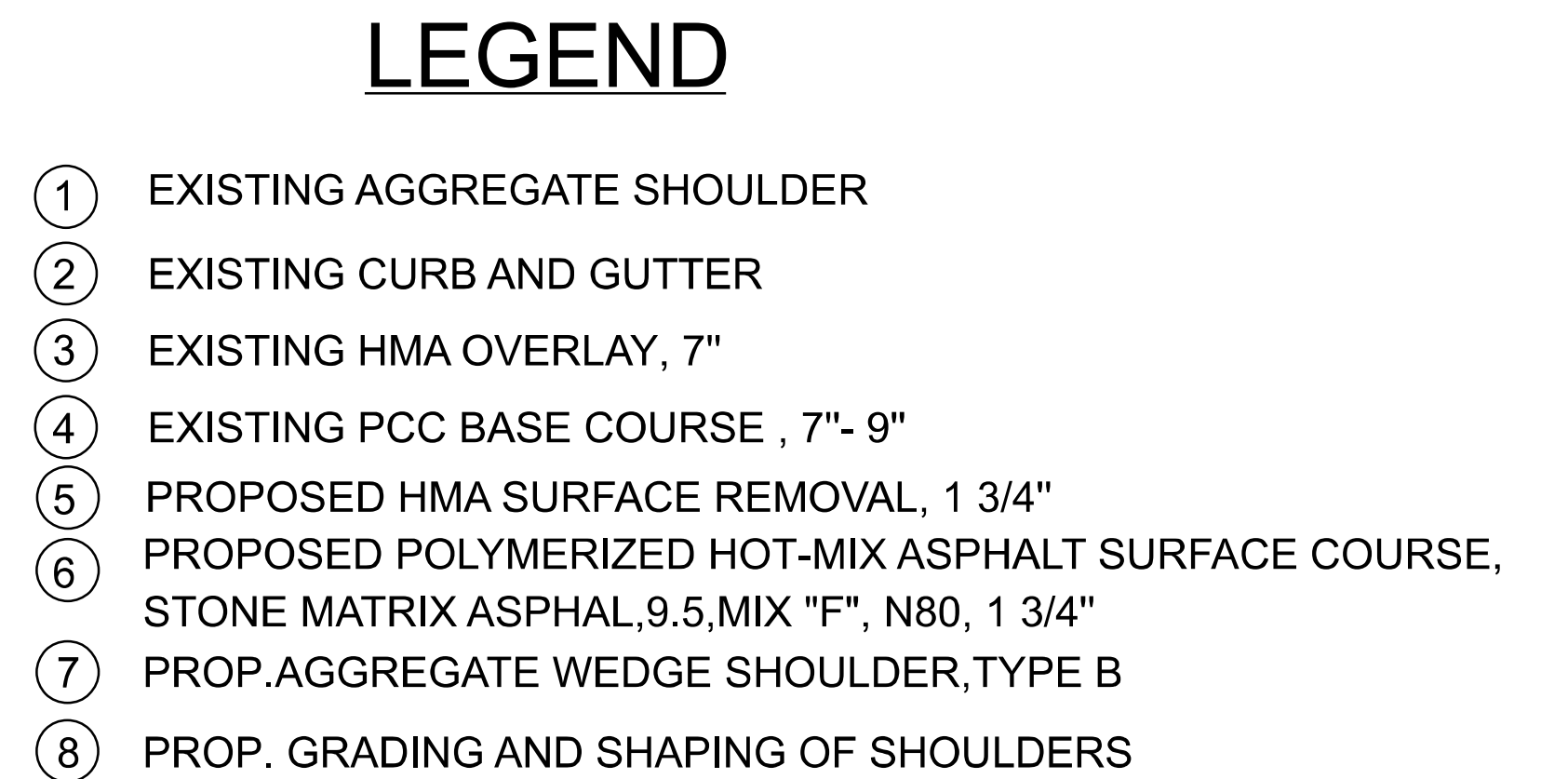
* = SPECIALITY ITEMS

				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES US 45 (MILWAUKEE AVE.) S OF IL 22 (HALF DAY RD.) TO CHEVY CHASE DR.				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				USER NAME = merín.jose	DESIGNED -	REVISED -						330	2025-2116-RS,SW	LAKE	61	4
					DRAWN -	REVISED -										
					CHECKED -	REVISED -										
				PLOT DATE = 8/17/2026	DATE -	REVISED -										
								SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	TRAFFIC	DRAINAGE			
					80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE			
	Code No.	Item	Unit	Total Quantity	0005	0021	0043			
*	89502376	REBUILD EXISTING HANDHOLE	EACH	1	1					
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2					
	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
*	X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1		1				
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	13	13					
	X2810840	REMOVE AND REPLACE STONE RIPRAP	CU YD	7.8			7.8			
	X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	142	142					
	X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	1153	1153					
☐	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	160	160					
☐	X5538100	STORM SEWERS TO BE CLEANED 21"	FOOT	116	116					
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	4	4					
	X6700407	ENGINEER'S FIELD OFFICE, TYPEA (D1)	CAL MO	6	6					
	X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	257	257					
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8		8				
*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4		4				
*	X8860105	DETECTOR LOOP REPLACEMENT	FOOT	612		612				
☐	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	32	32					
*	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	4		4				
	25000210	SEEDING CLASS 2A	FOOT	0.08	0.08					
	25100630	EROSION CONTROL BLANKET	FOOT	5 14	5 14					
	28000400	PERIMETER EROSION BARRIER	FOOT	10 6	10 6					
	72000100	SIGN PANEL - TYPE 1	SQ FT	7.5	7.5					

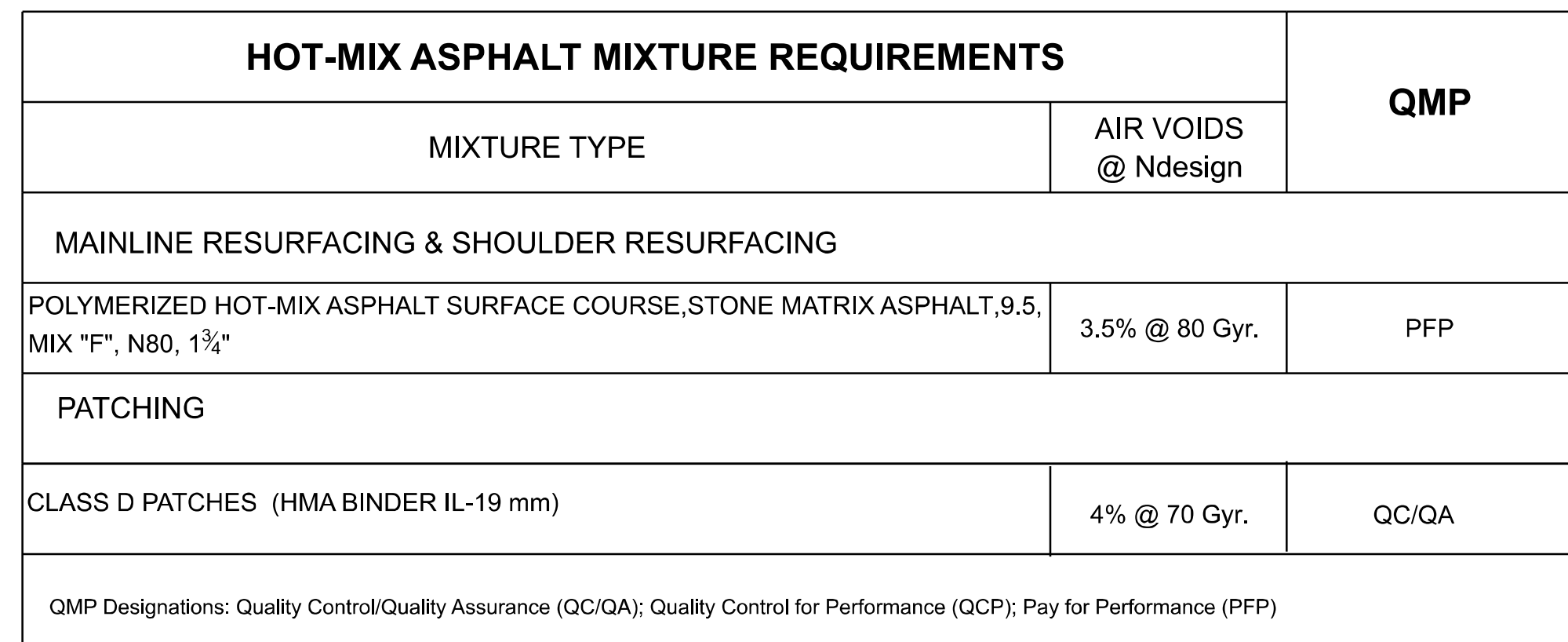
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FILE NUMBER	USER NAME = merin,jose	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES					F.A.P	SECTION	COUNTY	TOTAL	SHEET
		DRAWN -	REVISED -		US 45 (MILWAUKEE AVE.) S OF IL 22 (HALF DAY RD) TO CHEVY CHASE DR.					RTE.			SHEETS	NO.
		CHECKED -	REVISED -		330	2025-2116-RS,SW	LAKE	61	5	CONTRACT NO. 80C62				
	PLOT DATE = 8/17/2026	DATE -	REVISED -		SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	



1. THE CONTRACTOR SHALL MILL BEFORE PATCHING
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE

STA. 14+88 TO STA. 65+55
STA. 95+92 TO STA. 112+86
STA. 153+99 TO STA. 161+55



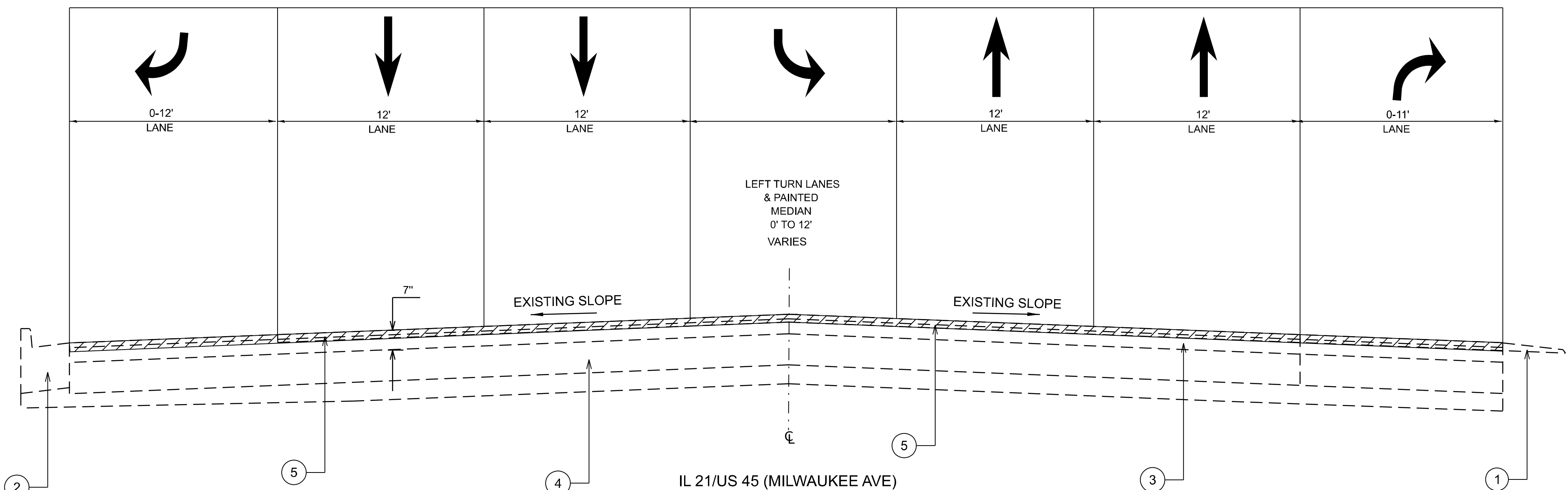
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

WHEN SHOULDER RESURFACING OF 6 FEET OR LESS IS ALLOWED TO BE PLACED
SIMULTANEOUSLY WITH THE ADJACENT TRAFFIC LANE, THE MAINLINE QUALITY MANAGEMENT
PROGRAM WILL BE ENFORCED FOR THE MAINLINE AND SHOULDER

STA. 14+88 TO STA. 65+55
STA. 95+92 TO STA. 112+86
STA. 153+99 TO STA. 161+55

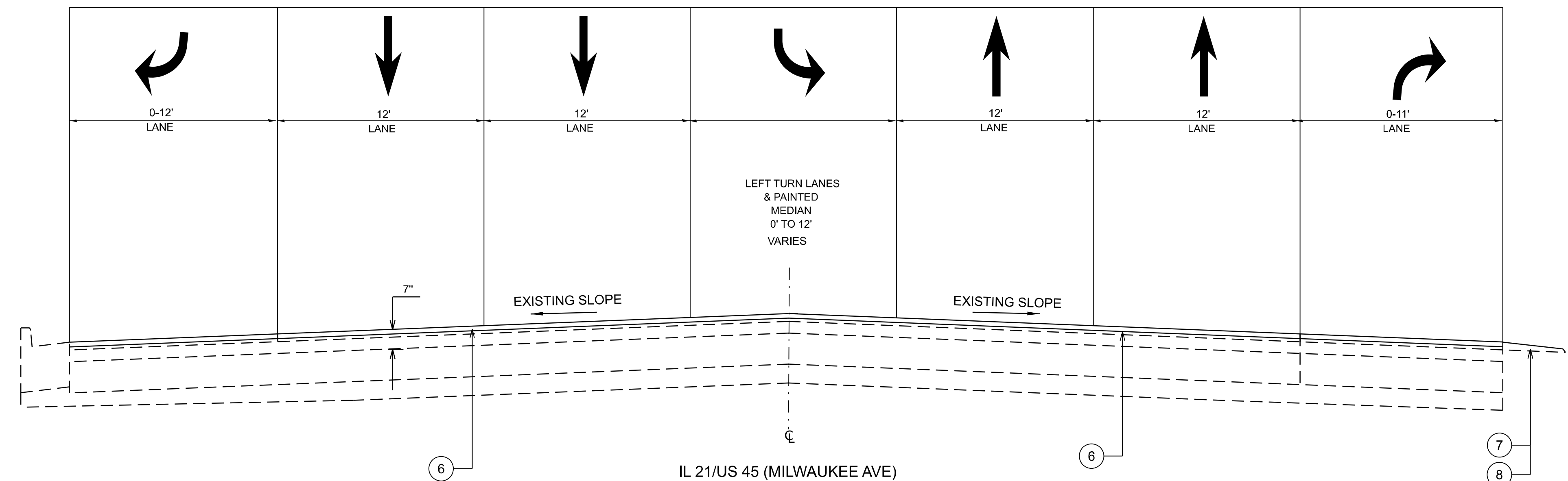
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		DRAWN -	REVISED -		US 45 (MILWAUKEE AVE.)-S OF IL 22 (HALF DAY RD) TO CHEVY CHASE DR.					2025-2116-RS,SW	LAKE	61	6	
		CHECKED -	REVISED -						CONTRACT NO. 80C62					
	PLOT DATE = 8/5/2026	DATE -	REVISED -		SCALE:	SHEET 1	OF 3 SHEETS	STA.	TO STA.					
										ILLINOIS	FED. AID PROJECT			

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EXISTING TYPICAL SECTION

STA. 74+50 TO STA. 95+92
STA. 112+56 TO STA. 123+65



PROPOSED TYPICAL SECTION

STA. 74+50 TO STA. 95+92
STA. 112+56 TO STA. 123+65

LEGEND

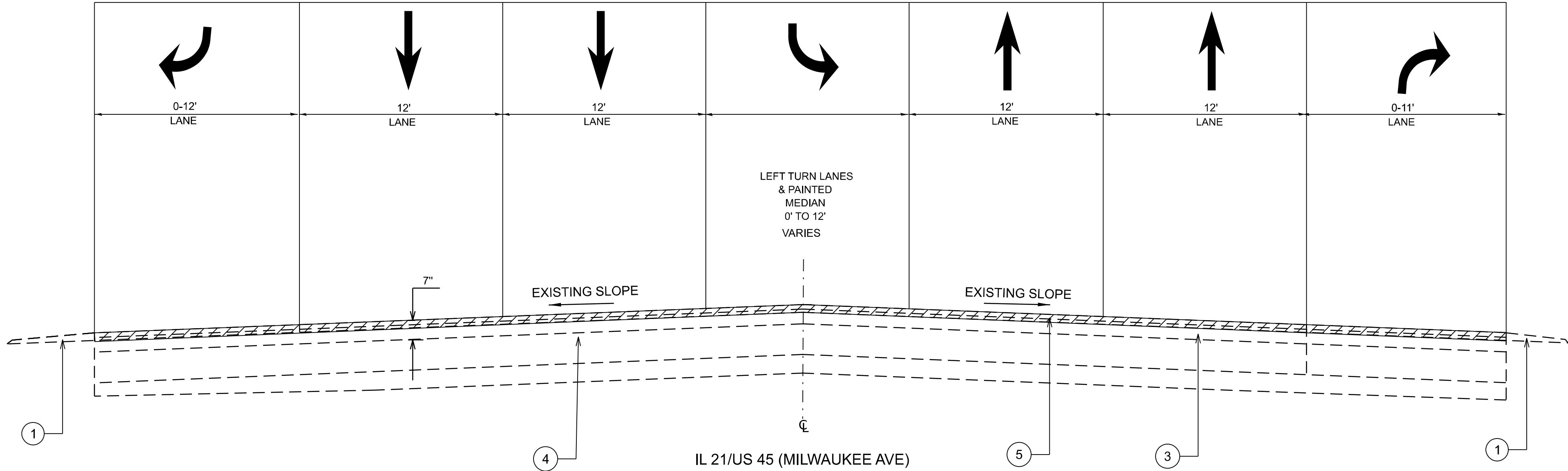
- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING CURB AND GUTTER
- ③ EXISTING HMA OVERLAY, 7"
- ④ EXISTING PCC BASE COURSE , 7"- 9"
- ⑤ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHAL,9.5,MIX "F", N80, 1 3/4"
- ⑦ PROP.AGGREGATE WEDGE SHOULDER,TYPE B
- ⑧ PROP. GRADING AND SHAPING OF SHOULDERS

NOTE:

- 1. THE CONTRACTOR SHALL MILL BEFORE PATCHING
- 2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE

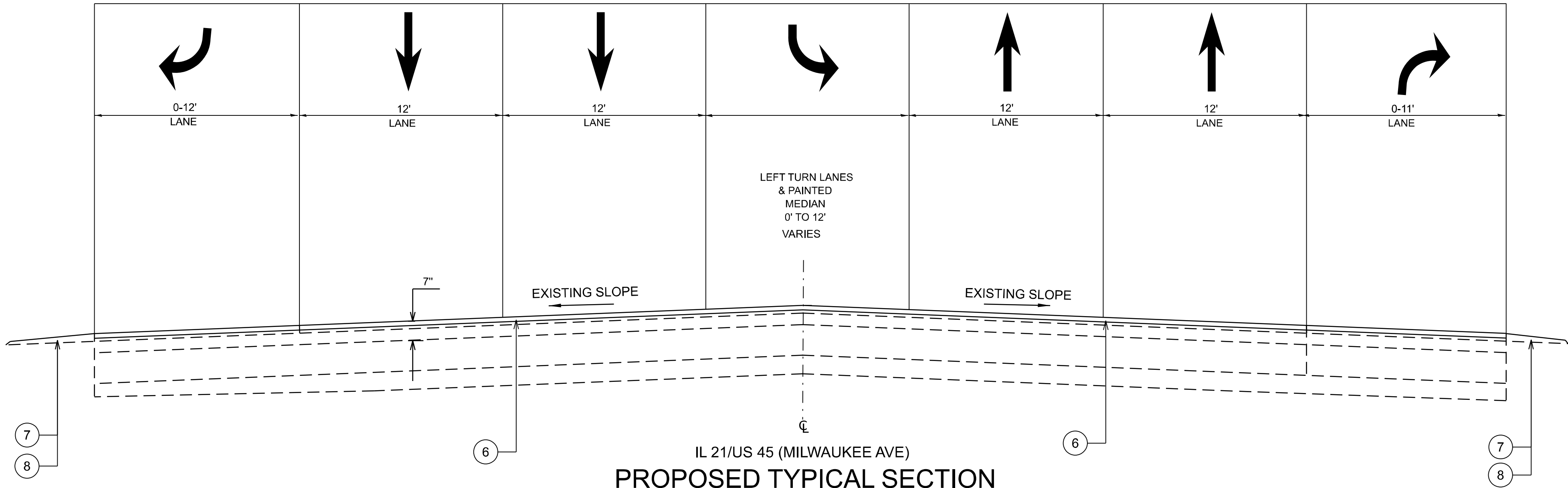
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		DRAWN -	REVISED -						2025-2116-RS,SW	LAKE	61	7
		CHECKED -	REVISED -					CONTRACT NO. 80C62				
	PLOT DATE = 8/14/2026	DATE -	REVISED -		SCALE:	SHEET 2	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION

STA. 65+55 TO STA. 74+45
STA. 123+65 TO STA. 153+99



PROPOSED TYPICAL SECTION

STA. 65+55 TO STA. 74+45
STA. 123+65 TO STA. 153+99

LEGEND

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING CURB AND GUTTER
- ③ EXISTING HMA OVERLAY, 7"
- ④ EXISTING PCC BASE COURSE , 7"- 9"
- ⑤ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHAL,9.5,MIX "F", N80, 1 3/4"
- ⑦ PROP.AGGREGATE WEDGE SHOULDER,TYPE B
- ⑧ PROP. GRADING AND SHAPING OF SHOULDERS

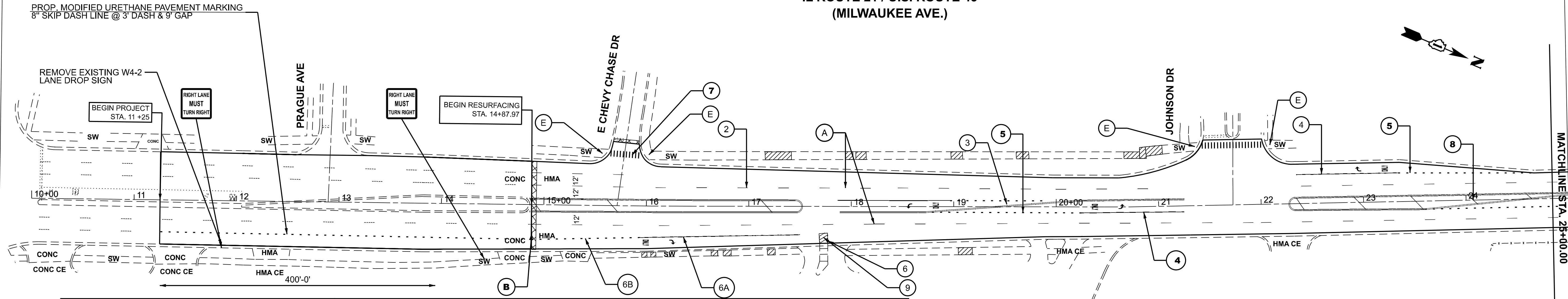
NOTE:

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- 2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE

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	USER NAME = merlin.jose	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION US 45 (MILWAUKEE AVE) - S OF IL 22 (HALF DAY RD) TO CHEVY CHASE DR.			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						2025-2116-RS,SW	LAKE	61	8
		CHECKED -	REVISED -					CONTRACT NO. 80C62				
	PLOT DATE = 8/14/2026	DATE -	REVISED -		SCALE:	SHEET 3	OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

IL ROUTE 21 / U.S. ROUTE 45
(MILWAUKEE AVE.)



PROPOSED ROADWAY WORK

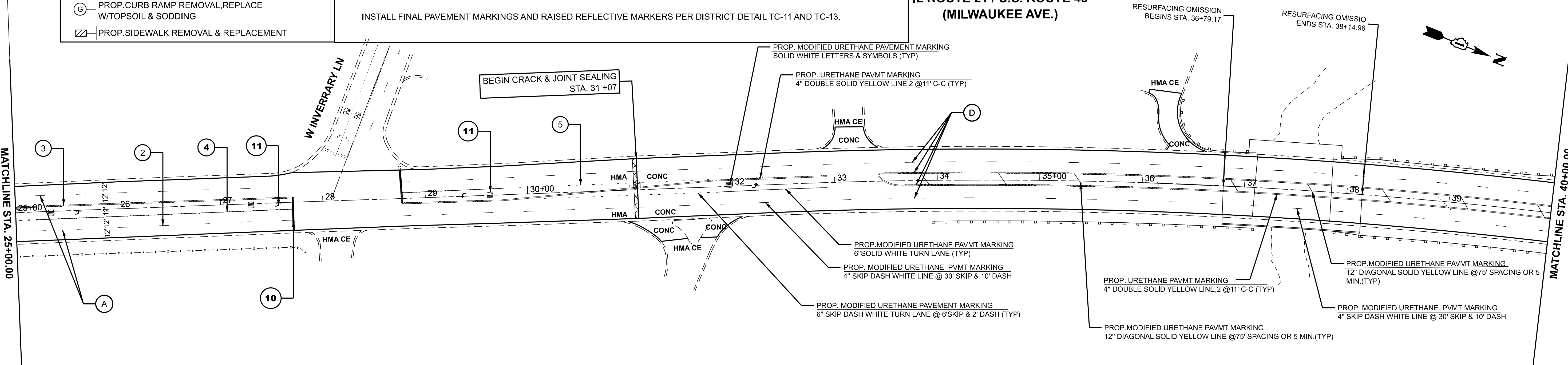
- (A) PROP. HMA SURF REM, 1 3/4" PROP. POLY HMA SC, SMA 9.5 MIX "F", N80, 1 3/4"
- (B) PROP. HMA SURF REM BUTT JOINT
- (C) PROP. AGGREGATE WEDGE SHOULDER, TYPE B PROP. GRADING AND SHAPING OF SHOULDERS
- (D) PROP. CRACK & JOINT ROUTING (PCC PAVEMENT & SHOULDER) PROP. JOINT & CRACK FILLING
- (E) PROP. ADA CURB RAMP IMPROVEMENT
- (F) PROP. PROJECT DETAIL FOR SINGLE PERPEDNDICULAR CURB RAMPS (PD-01)
- (G) PROP. CURB RAMP REMOVAL, REPLACE W/TOPSOIL & SODDING
- (H) PROP. SIDEWALK REMOVAL & REPLACEMENT

PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

- (1) 4" SOLID WHITE EDGE LINE (TYP.)
- (2) 4" SKIP DASH WHITE LINE @ 30' SKIP & 10' DASH (TYP.)
- (3) 4" DOUBLE SOLID YELLOW LINE, 2 @ 11' C-C (TYP.)
- (4) 6" SOLID WHITE TURN LANE (TYP.)
- (5) 6" SKIP DASH WHITE TURN LANE @ 6' SKIP & 2' DASH (TYP.)
- (6) 8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES (TYP.)
- (6A) 8" SOLID WHITE LINE (TYP)
- (6B) 8" WHITE SKIP DASH LINE @ 3' DASH & 9' GAP (TYP.)
- (7) 12" SOLID WHITE LONGITUDIAL BAR @ 90°, 2' SPACING (TYP.)
- (8) 12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING OR 5 MIN. (TYP.)
- (9) 12" SOLID WHITE CHANNELIZING DIAGONALS @ 45 DEG (TYP.)
- (10) 24" SOLID WHITE STOP BAR (TYP.)
- (11) SOLID WHITE LETTERS & SYMBOLS (TYP.)

INSTALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS PER DISTRICT DETAIL TC-11 AND TC-13.

IL ROUTE 21 / U.S. ROUTE 45
(MILWAUKEE AVE.)



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USER NAME	merin,jose	DESIGNED	-	REVISED	-
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PLOT DATE	9/2/2026	DATE	-	REVISED	-

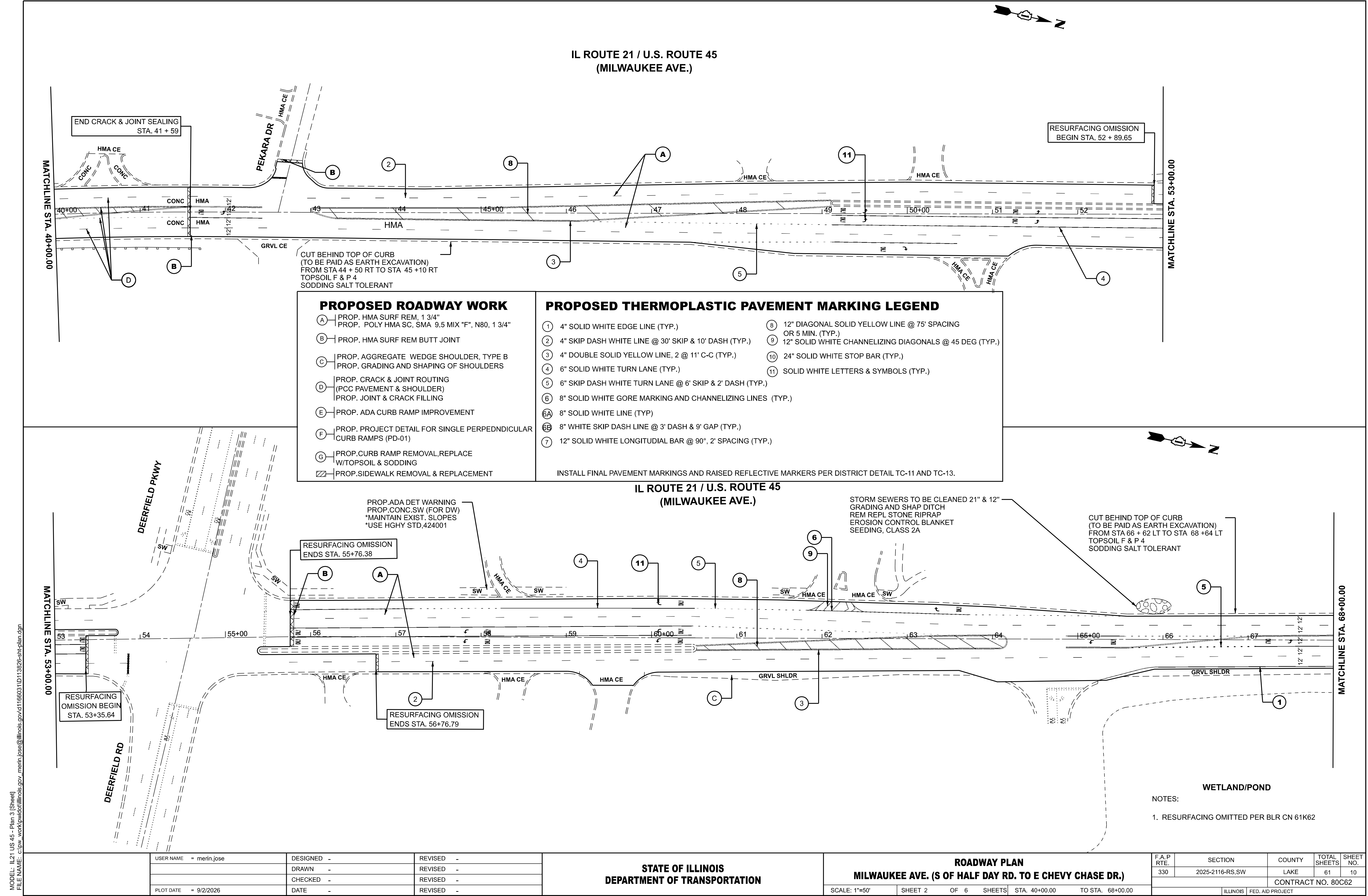
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
MILWAUKEE AVE. (S OF HALF DAY RD. TO E OF CHEVY CHASE DR.)

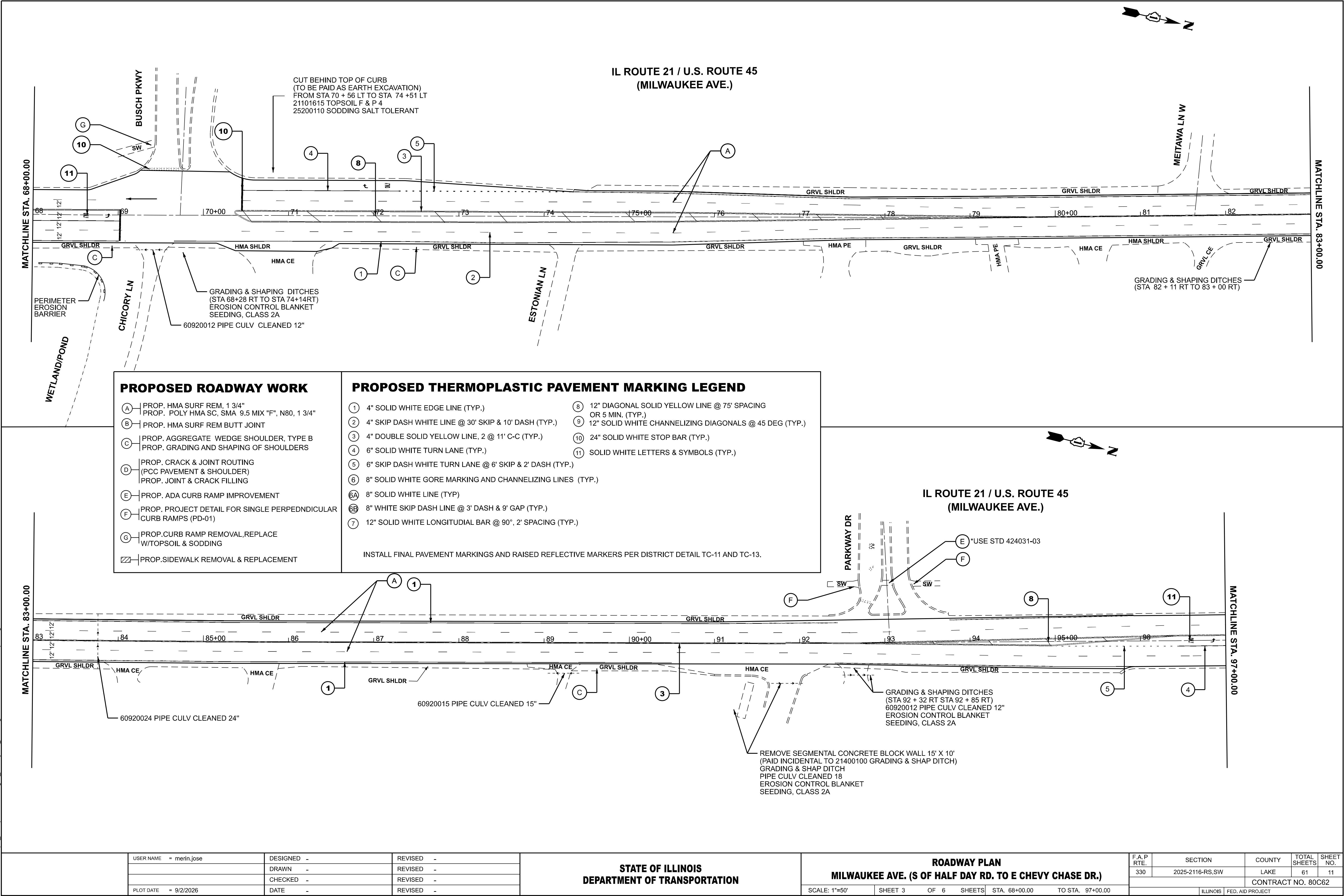
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	9
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

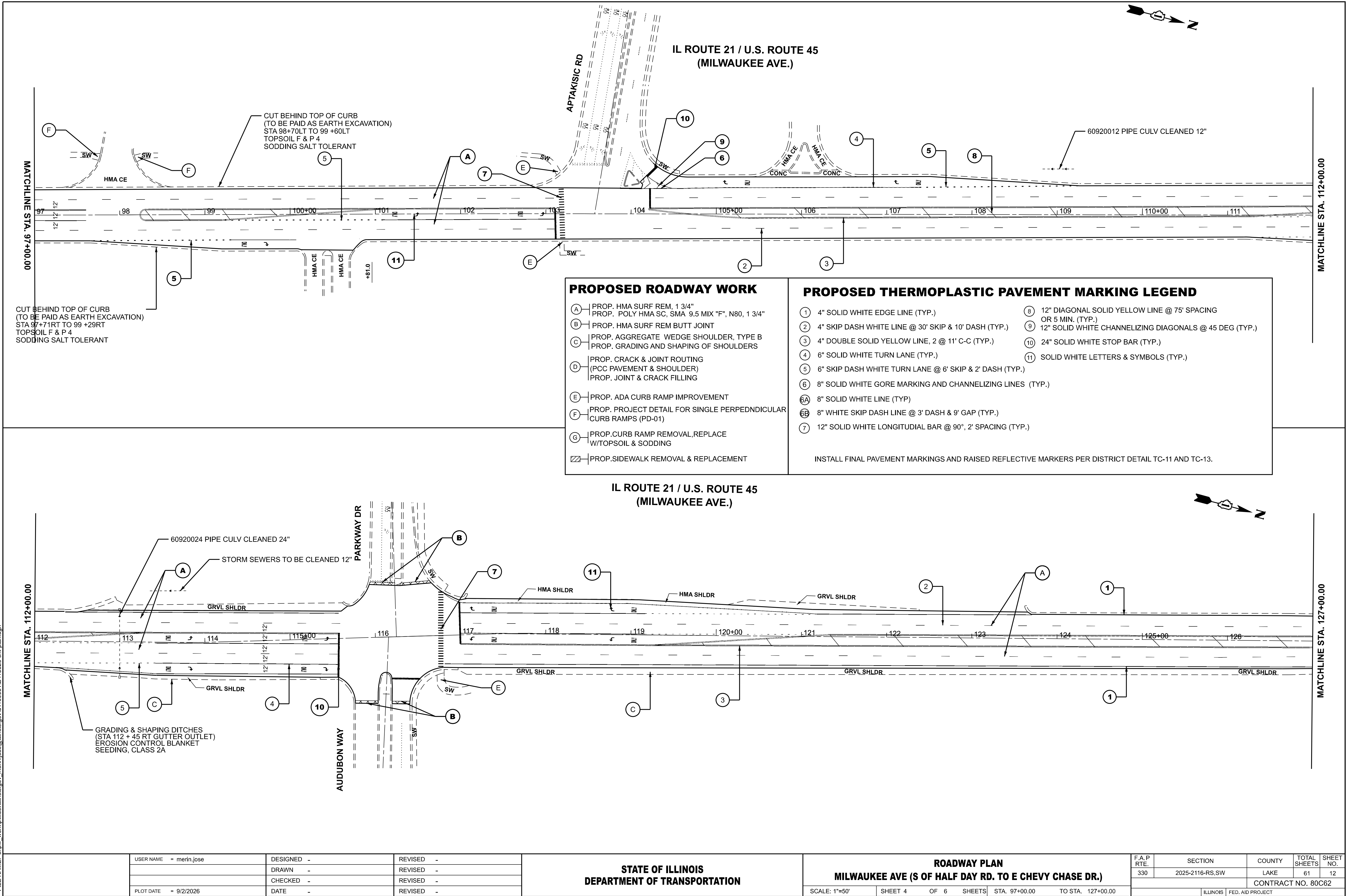
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MODEL: IL21 US 45 - Plan 5 (Sheet)
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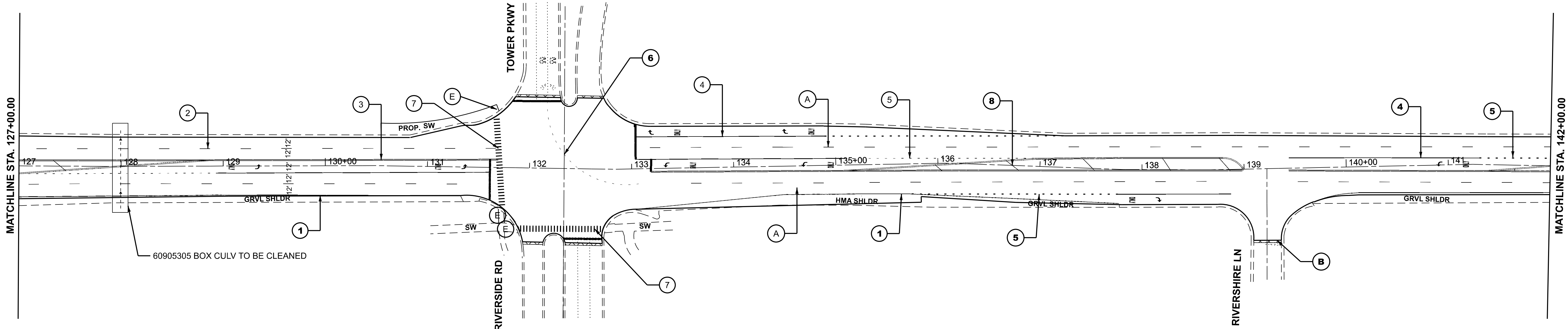
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		CHECKED	-	REVISED	-
PLOT DATE	9/2/2026	DATE	-	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN MILWAUKEE AVE (S OF HALF DAY RD. TO E CHEVY CHASE DR.)					
SCALE: 1"=50'	SHEET 4	OF 6	SHEETS	STA. 97+00.00	TO STA. 127+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	12
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

IL ROUTE 21 / U.S. ROUTE 45
(MILWAUKEE AVE.)



PROPOSED ROADWAY WORK

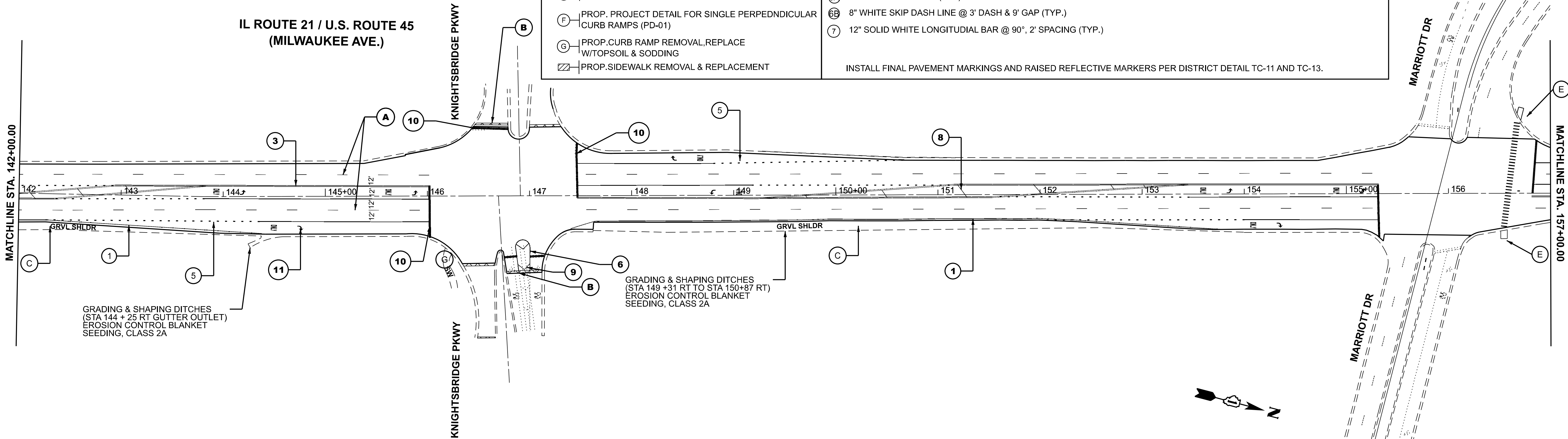
- (A) PROP. HMA SURF REM, 1 3/4\"/>
PROP. POLY HMA SC, SMA 9.5 MIX "F", N80, 1 3/4"
- (B) PROP. HMA SURF REM BUTT JOINT
- (C) PROP. AGGREGATE WEDGE SHOULDER, TYPE B
PROP. GRADING AND SHAPING OF SHOULDERS
- (D) PROP. CRACK & JOINT ROUTING
(PCC PAVEMENT & SHOULDER)
PROP. JOINT & CRACK FILLING
- (E) PROP. ADA CURB RAMP IMPROVEMENT
- (F) PROP. PROJECT DETAIL FOR SINGLE PERPEDNDICULAR
CURB RAMP (PD-01)
- (G) PROP. CURB RAMP REMOVAL, REPLACE
W/TOPSOIL & SODDING
- (H) PROP. SIDEWALK REMOVAL & REPLACEMENT

PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

- (1) 4" SOLID WHITE EDGE LINE (TYP.)
- (2) 4" SKIP DASH WHITE LINE @ 30' SKIP & 10' DASH (TYP.)
- (3) 4" DOUBLE SOLID YELLOW LINE, 2 @ 11' C-C (TYP.)
- (4) 6" SOLID WHITE TURN LANE (TYP.)
- (5) 6" SKIP DASH WHITE TURN LANE @ 6' SKIP & 2' DASH (TYP.)
- (6) 8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES (TYP.)
- (6A) 8" SOLID WHITE LINE (TYP)
- (6B) 8" WHITE SKIP DASH LINE @ 3' DASH & 9' GAP (TYP.)
- (7) 12" SOLID WHITE LONGITUDIAL BAR @ 90°, 2' SPACING (TYP.)
- (8) 12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING
OR 5 MIN. (TYP.)
- (9) 12" SOLID WHITE CHANNELIZING DIAGONALS @ 45 DEG (TYP.)
- (10) 24" SOLID WHITE STOP BAR (TYP.)
- (11) SOLID WHITE LETTERS & SYMBOLS (TYP.)

INSTALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS PER DISTRICT DETAIL TC-11 AND TC-13.

IL ROUTE 21 / U.S. ROUTE 45
(MILWAUKEE AVE.)



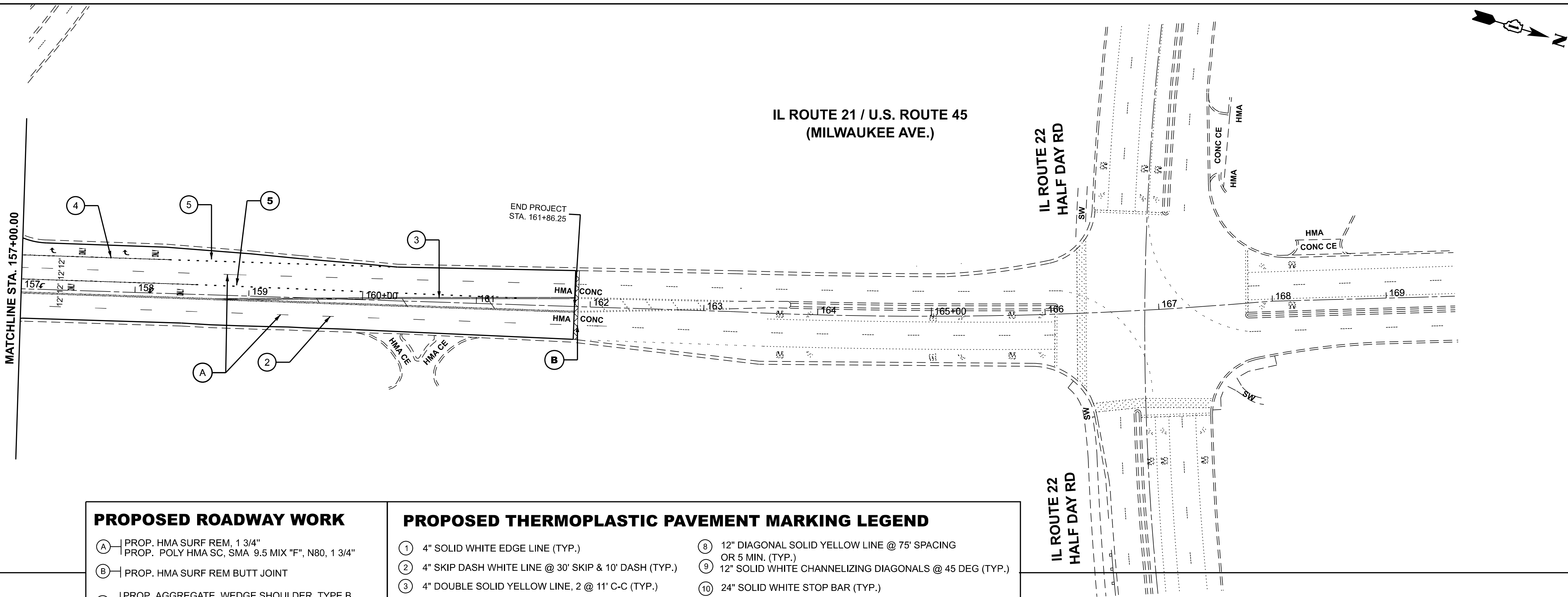
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
MILWAUKEE AVE.(S OF HALF DAY RD. TO E CHEVY CHASE DR.)

SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 127+00.00 TO STA. 157+00.00

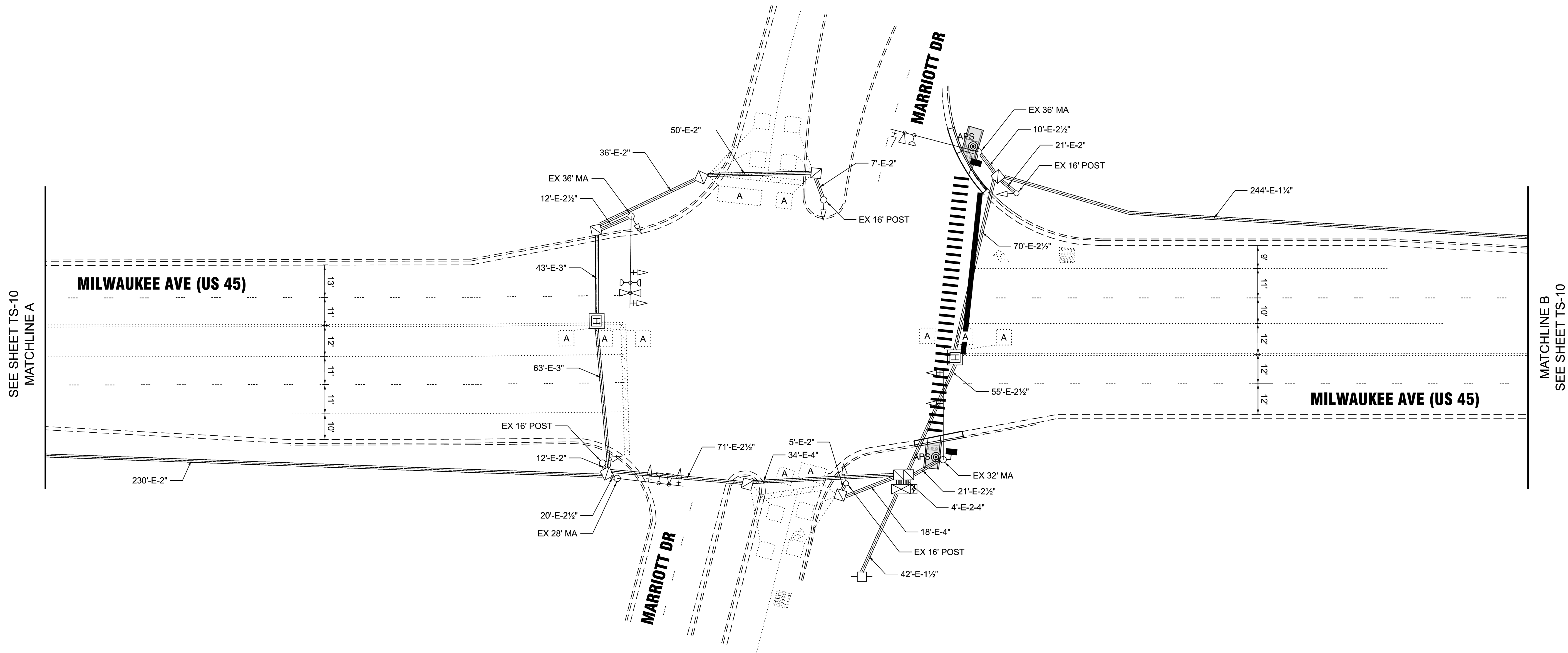
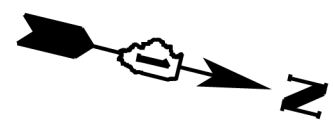
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	13
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

MODEL: IL21 US 45 - Plan 11 [Sheet]
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PROPOSED ROADWAY WORK		PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND	
(A)	PROP. HMA SURF REM, 1 3/4" PROP. POLY HMA SC, SMA 9.5 MIX "F", N80, 1 3/4"	(1)	4" SOLID WHITE EDGE LINE (TYP.)
(B)	PROP. HMA SURF REM BUTT JOINT	(2)	4" SKIP DASH WHITE LINE @ 30' SKIP & 10' DASH (TYP.)
(C)	PROP. AGGREGATE WEDGE SHOULDER, TYPE B PROP. GRADING AND SHAPING OF SHOULDERS	(3)	4" DOUBLE SOLID YELLOW LINE, 2 @ 11' C-C (TYP.)
(D)	PROP. CRACK & JOINT ROUTING (PCC PAVEMENT & SHOULDER) PROP. JOINT & CRACK FILLING	(4)	6" SOLID WHITE TURN LANE (TYP.)
(E)	PROP. ADA CURB RAMP IMPROVEMENT	(5)	6" SKIP DASH WHITE TURN LANE @ 6' SKIP & 2' DASH (TYP.)
(F)	PROP. PROJECT DETAIL FOR SINGLE PERPEDNDICULAR CURB RAMPS (PD-01)	(6)	8" SOLID WHITE GORE MARKING AND CHANNELIZING LINES (TYP.)
(G)	PROP. CURB RAMP REMOVAL, REPLACE W/TOPSOIL & SODDING	(6A)	8" SOLID WHITE LINE (TYP)
(H)	PROP. SIDEWALK REMOVAL & REPLACEMENT	(6B)	8" WHITE SKIP DASH LINE @ 3' DASH & 9' GAP (TYP.)
		(7)	12" SOLID WHITE LONGITUDIAL BAR @ 90°, 2' SPACING (TYP.)
		(8)	12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING OR 5 MIN. (TYP.)
		(9)	12" SOLID WHITE CHANNELIZING DIAGONALS @ 45 DEG (TYP.)
		(10)	24" SOLID WHITE STOP BAR (TYP.)
		(11)	SOLID WHITE LETTERS & SYMBOLS (TYP.)
		INSTALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS PER DISTRICT DETAIL TC-11 AND TC-13.	

	USER NAME * merlin.jose		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN -	REVISED -		MILWAUKEE AVE. (S OF HALF DAY RD.TO E CHEVY CHASE DR.)				330	2025-2116-RS,SW	LAKE	61	14
			CHECKED -	REVISED -						CONTRACT NO. 80C62				
	PLOT DATE = 9/2/2026		DATE -	REVISED -		SCALE: 1"=50'	SHEET 6	OF 6	SHEETS	STA. 157+00.00	TO STA. 172+00.00	ILLINOIS FED. AID PROJECT		



TS 6695
LCDOT CENTRACS
FORMER ECON 24

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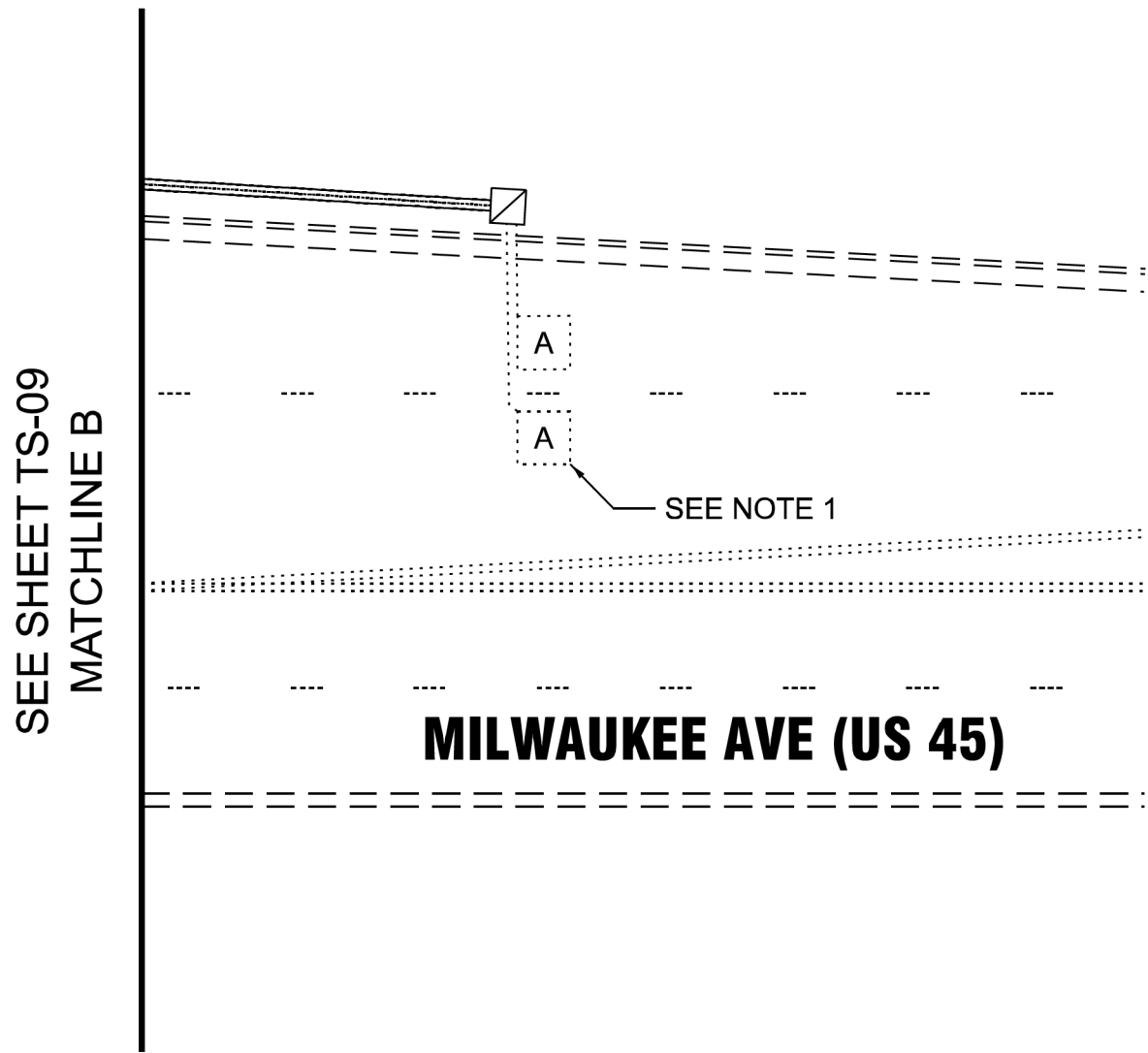
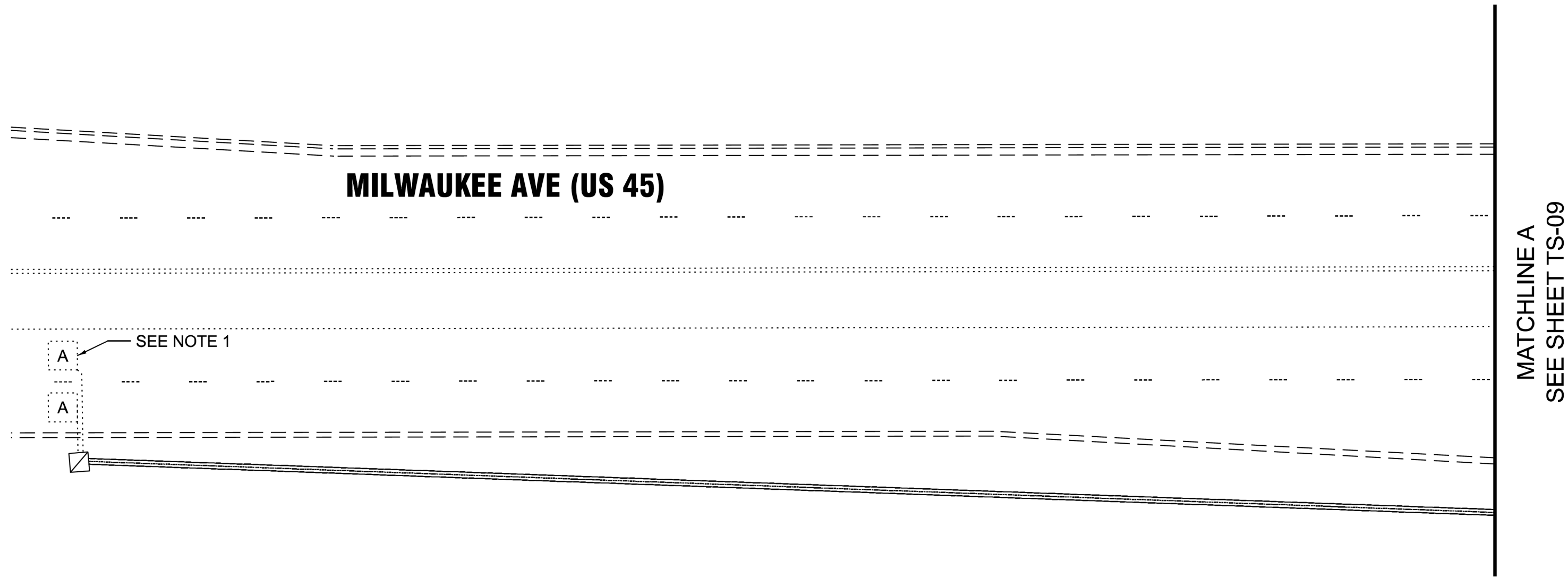
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		CHECKED	-	REVISED	-
PLOT DATE	= 8/26/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MILWAUKEE AVE (US 45) AND MARRIOTT DR.

SCALE: SHEET 1 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	15
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				



NOTES:

1. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE NB AND SB MILWAUKEE AVE (US 45) INSIDE THROUGH LANES.

TS 6695
LCDOT CENTRACS
FORMER ECON 24

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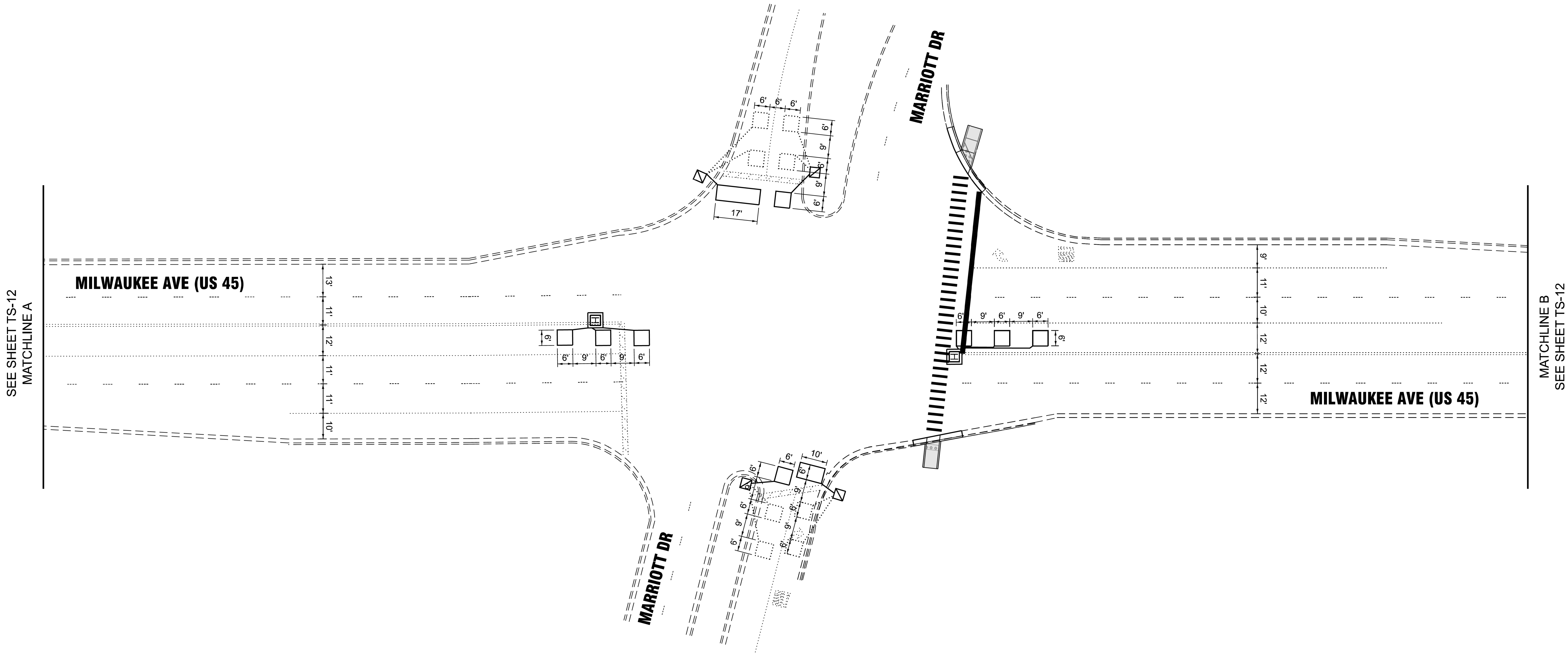
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		CHECKED	-	REVISED	-
PLOT DATE	= 8/26/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN MILWAUKEE AVE (US 45) AND MARRIOT DR		
SCALE:	SHEET 2 OF 21 SHEETS	STA. TO STA.

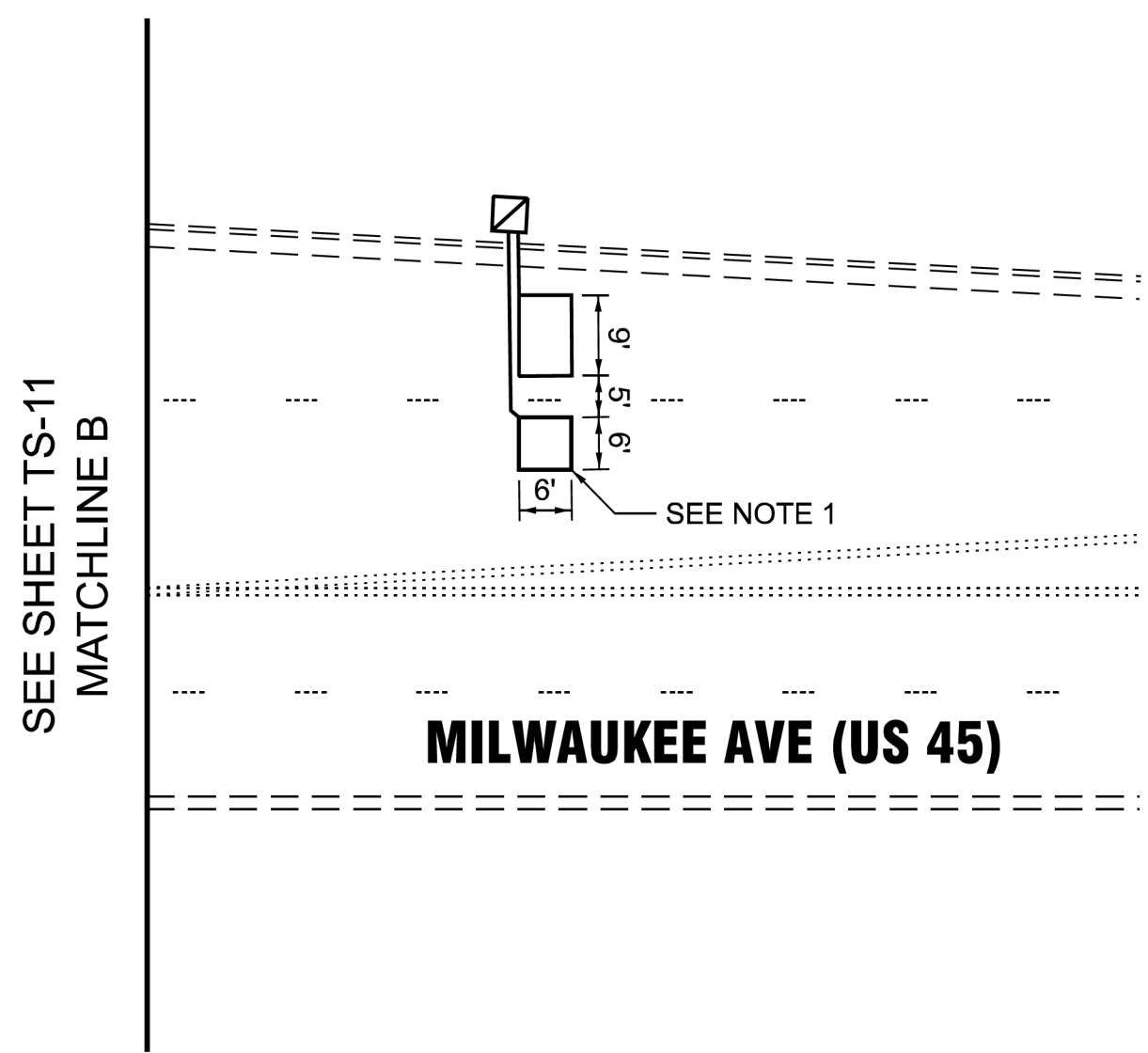
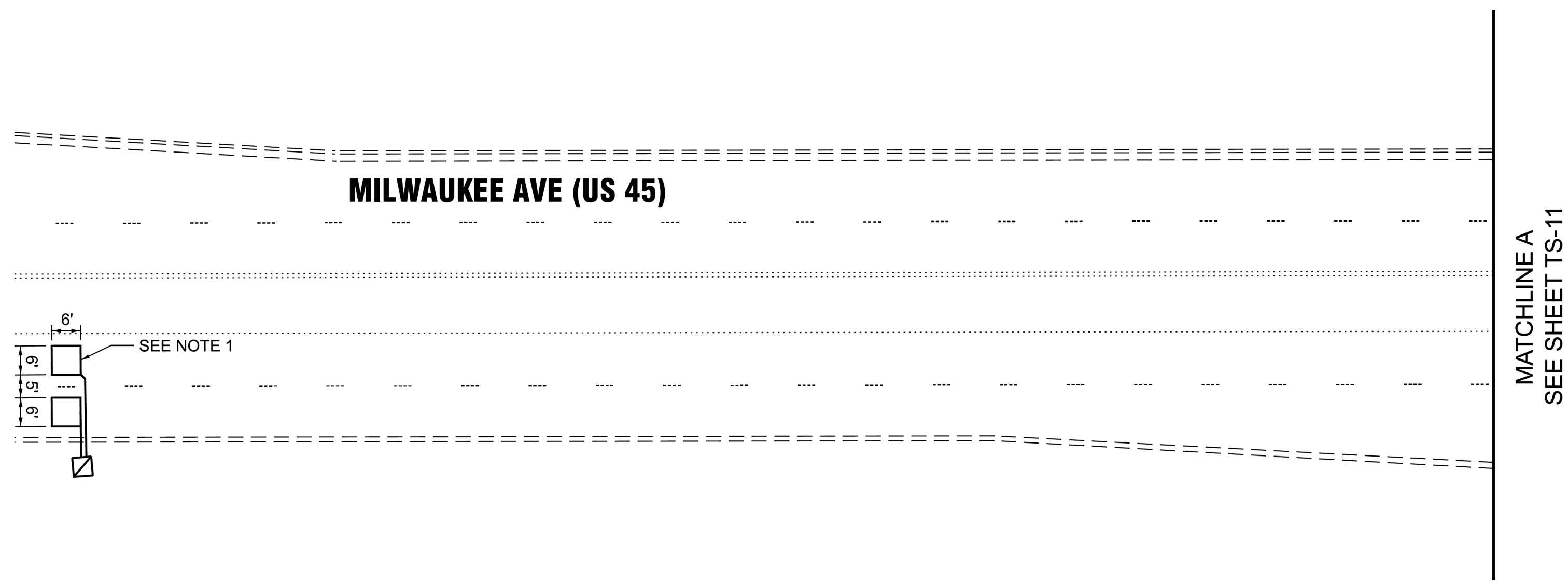
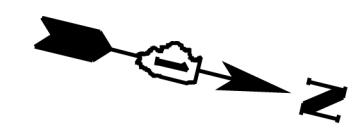
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330	2025-2116-RS,SW	LAKE	61	16
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

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TS 6695
LCDOT CENTRACS
FORMER ECON 24

	USER NAME	= merlin.jose	DESIGNED	-	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP LAYOUT PLAN MILWAUKEE AVE (US 45) AND MARRIOTT DR.			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN	-	REVISED	-					330	2025-2116-RS,SW	LAKE	61	17
			CHECKED	-	REVISED	-					CONTRACT NO. 80C62				
	PLOT DATE	= 8/26/2026	DATE	-	REVISED	-					ILLINOIS FED. AID PROJECT				
													SCALE:	SHEET 3	OF 21



NOTES:

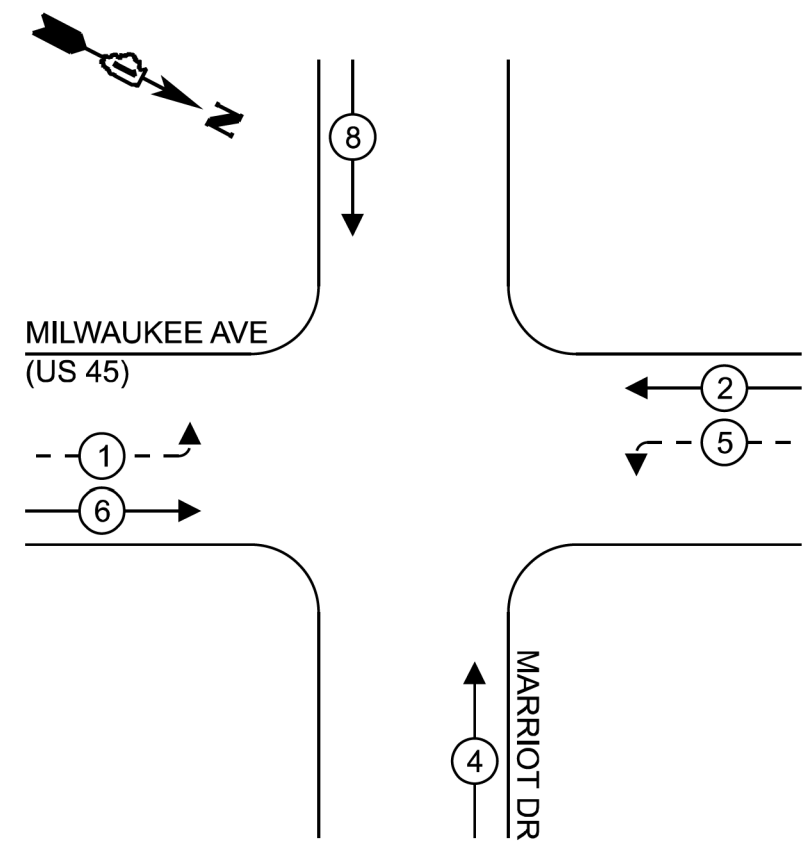
1. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE NB AND SB MILWAUKEE AVE (US 45) INSIDE THROUGH LANES.

TS 6695
LCDOT CENTRACS
FORMER ECON 24

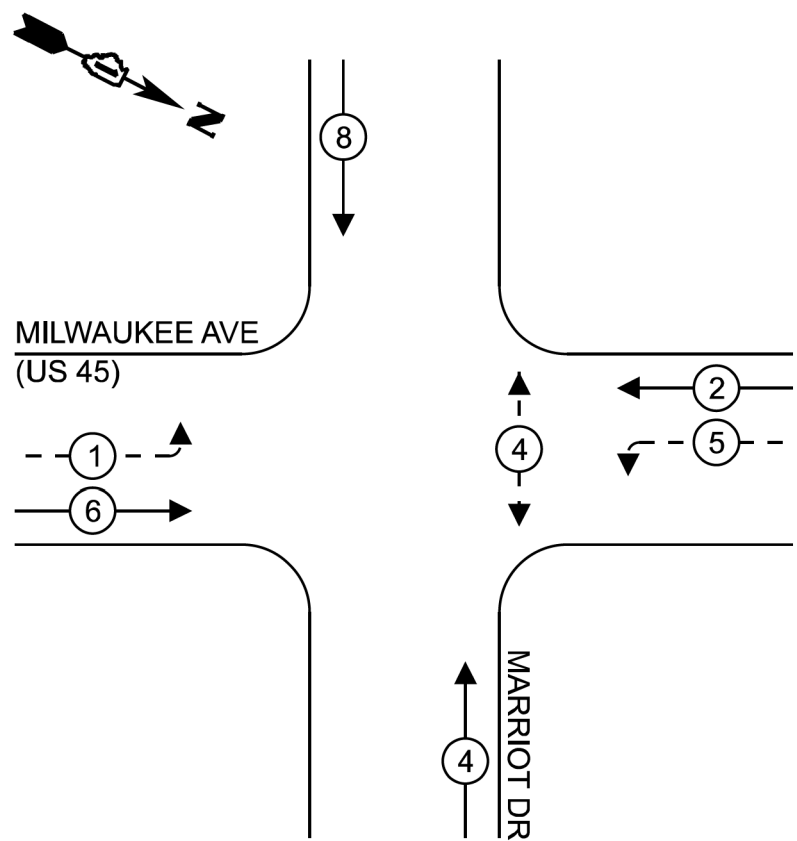
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	USER NAME	= merin.jose	DESIGNED	-	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP LAYOUT PLAN MILWAUKEE AVE (US 45) AND MARRIOT DR.	SCALE:	SHEET 4	OF 21	SHEETS	STA.	TO STA.	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN	-	REVISED	-									330	2025-2116-RS,SW	LAKE	61	18
			CHECKED	-	REVISED	-									CONTRACT NO. 80C62				
	PLOT DATE	= 8/26/2026	DATE	-	REVISED	-									ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



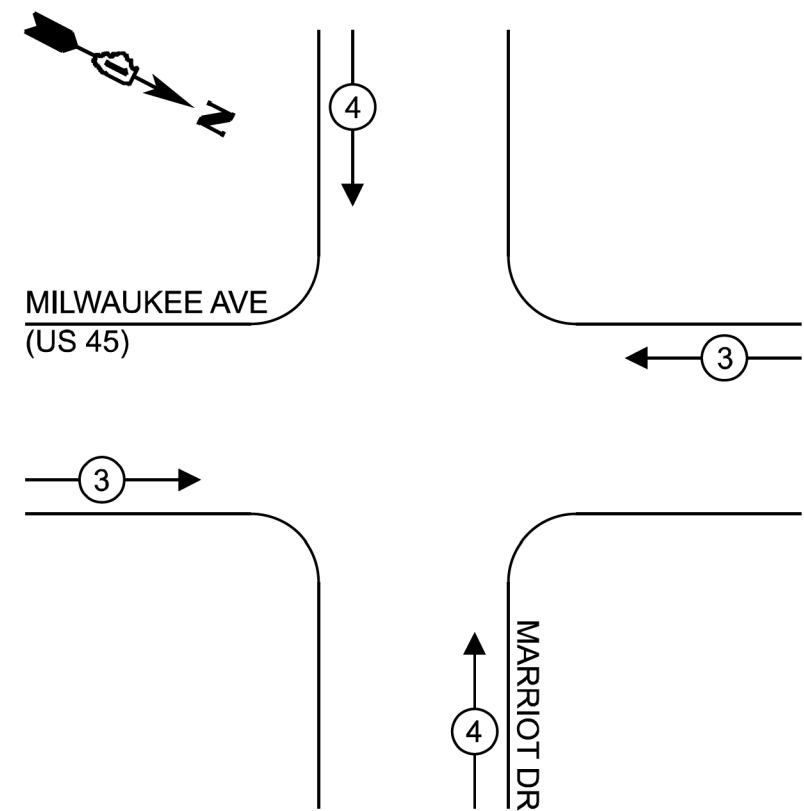
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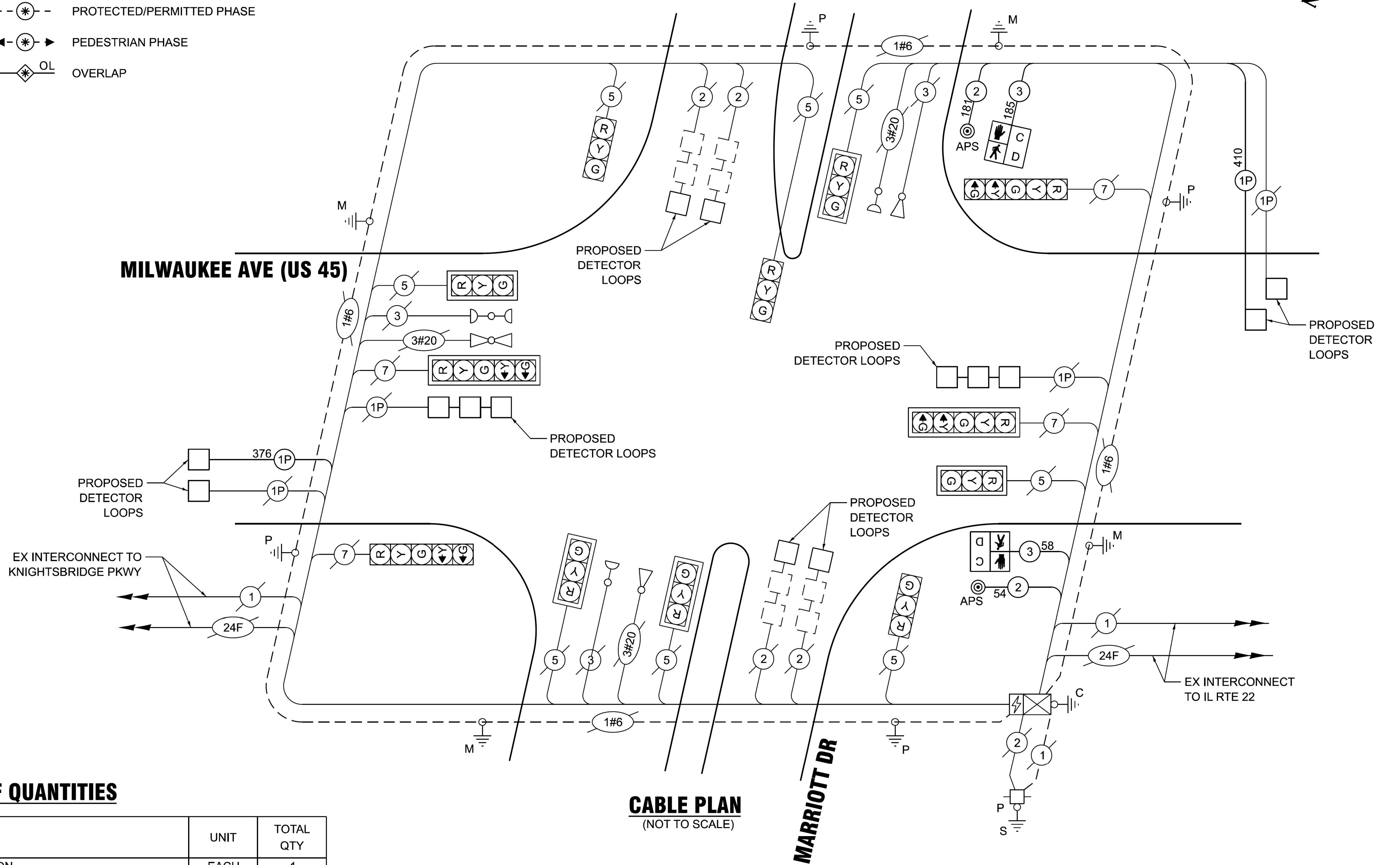
LEGEND:

- ← (P) → PROTECTED PHASE
- ← (P) - - PROTECTED/PERMITTED PHASE
- ← (P) → PEDESTRIAN PHASE
- ← (P) OL OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



MILWAUKEE AVE (US 45)



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	8	11	88
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		345	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		950	

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	234
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	242
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	786
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	510
MODIFY EXISTING CONTROLLER	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

VILLAGE OF LINCOLNSHIRE

1 OLDE HALF DAY ROAD
LINCOLNSHIRE, IL 60069

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.

PHONE: 866-639-3532

COMPANY: COMED

ACCOUNT NUMBER: 02943-93000

METER NUMBER: 272138392

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MILWAUKEE AVE (US 45) AND MARRIOTT DR.

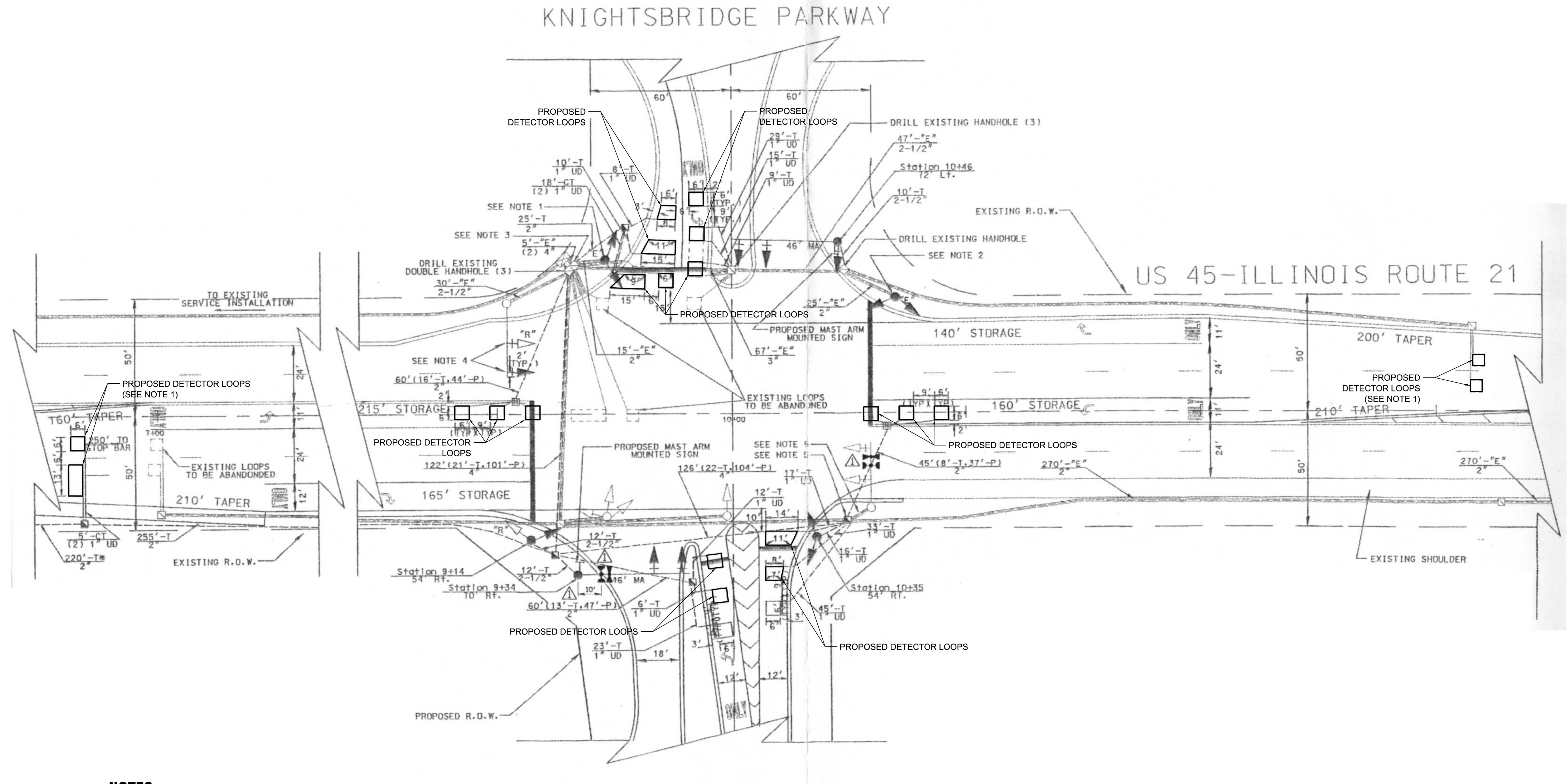
SCALE: SHEET 5 OF 21 SHEETS STA. TO STA.

TS 6695
LCDOT CENTRACS
FORMER ECON 24

MODEL: TS-5 (Sheet)
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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	8/26/2026	DATE	-	REVISED	-

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	19
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				



NOTES:

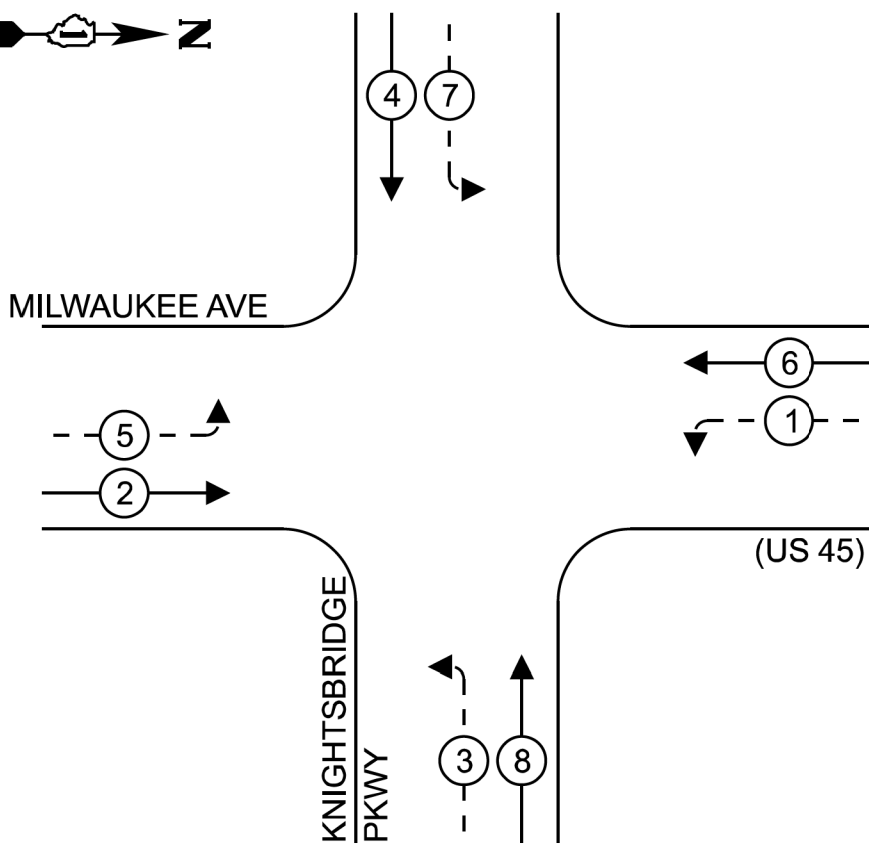
- 1. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE NB AND SB MILWAUKEE AVE (US 45) INSIDE THROUGH LANES.

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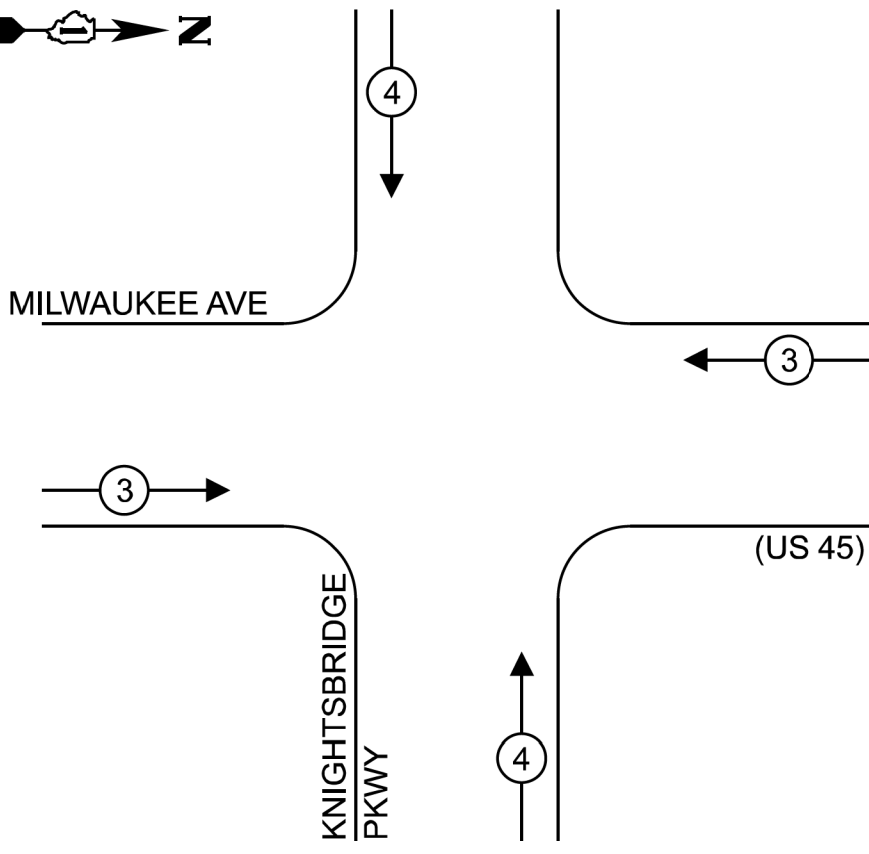
TS 6665
LCDOT CENTRACS
FORMER ECON 24

	USER NAME = merin,jose	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN MILWAUKEE AVE (US 45) AND KNIGHTSBRIDGE PKWY				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						330	2025-2116-RS,SW	LAKE	61	20
		CHECKED -	REVISED -						CONTRACT NO. 80C62				
	PLOT DATE = 8/14/2026	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
	SCALE:								SHEET 6 OF 21 SHEETS			STA. TO STA.	

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE **PREEMPTION SEQUENCE**



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

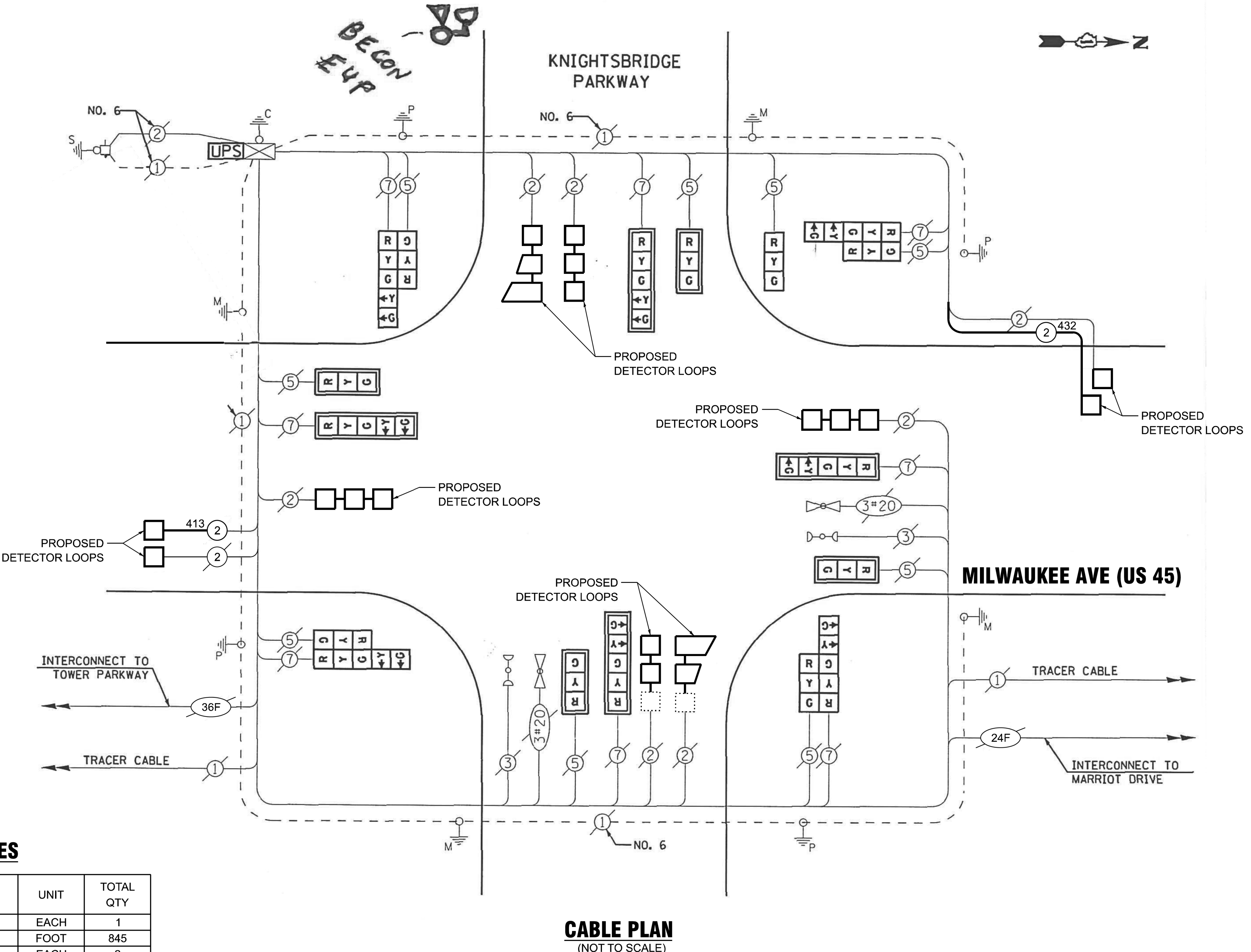
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	9	11	99
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	-	25	-
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			353
UPS CHARGING	-	225	-
BATTERY HEATER MAT	-	180	-
CABINET HEATER	-	200	-
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	845
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP TYPE I	FOOT	804

ENERGY COSTS TO:
VILLAGE OF LINCOLNSHIRE
1 OLDE HALF DAY ROAD
LINCOLNSHIRE, IL 60069

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: 866-639-3532
COMPANY: COMED
ACCOUNT NUMBER: 02943-93000
METER NUMBER: 272105051



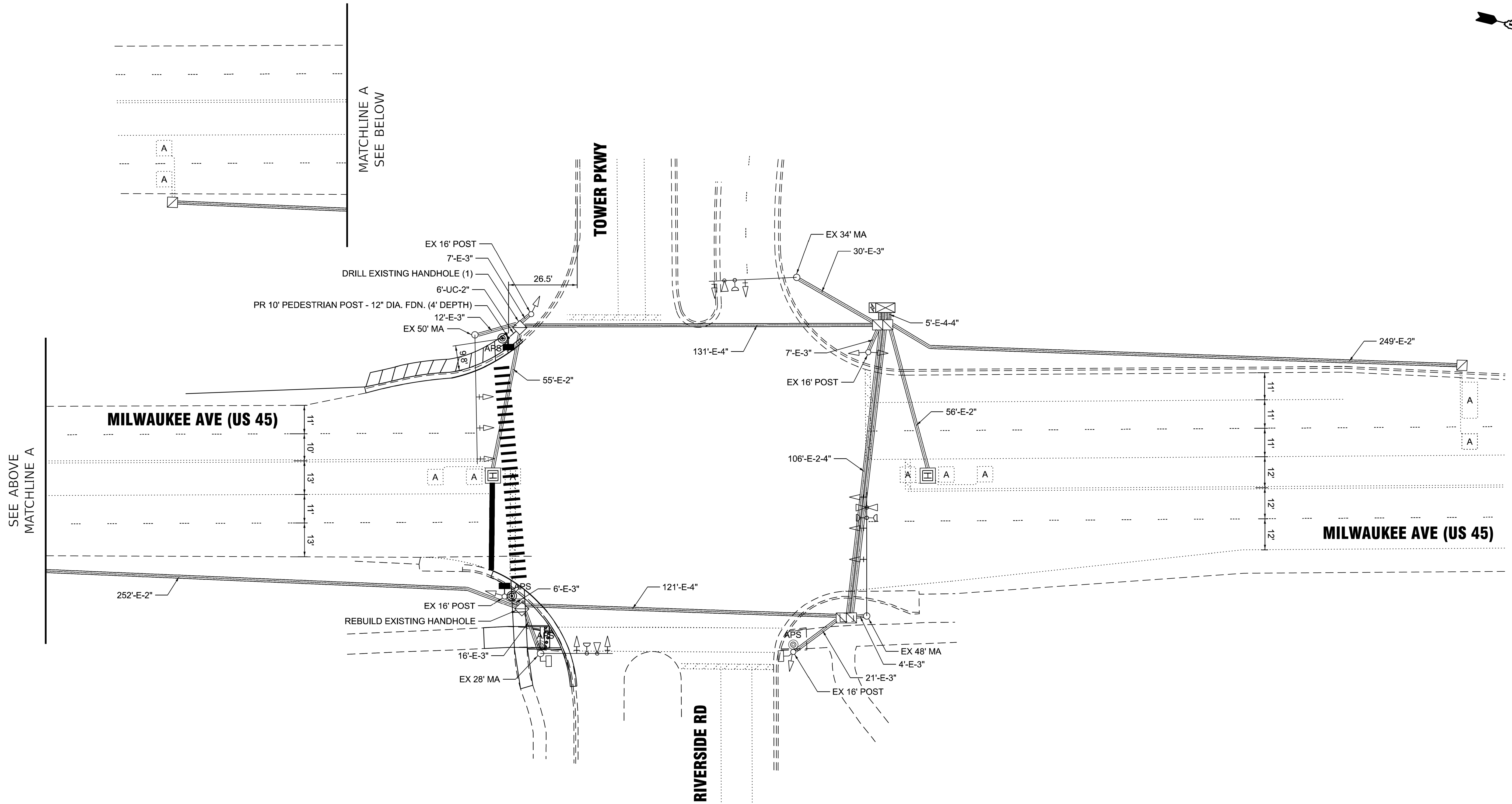
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MILWAUKEE AVE (US 45) AND KNIGHTSBRIDGE PKWY**

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	21
		CONTRACT NO. 80C62		
ILLINOIS		FED. AID PROJECT		

TS 6665
LCDOT CENTRACS
FORMER ECON 24

MODEL: TS-7 [Sheet]



MODEL: TS-8 (Sheet)
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TS 21405
LCDOT CENTRACS
FORMER ECON 24

USER NAME	= merin.jose	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 8/14/2026	DATE	-	REVISED	-

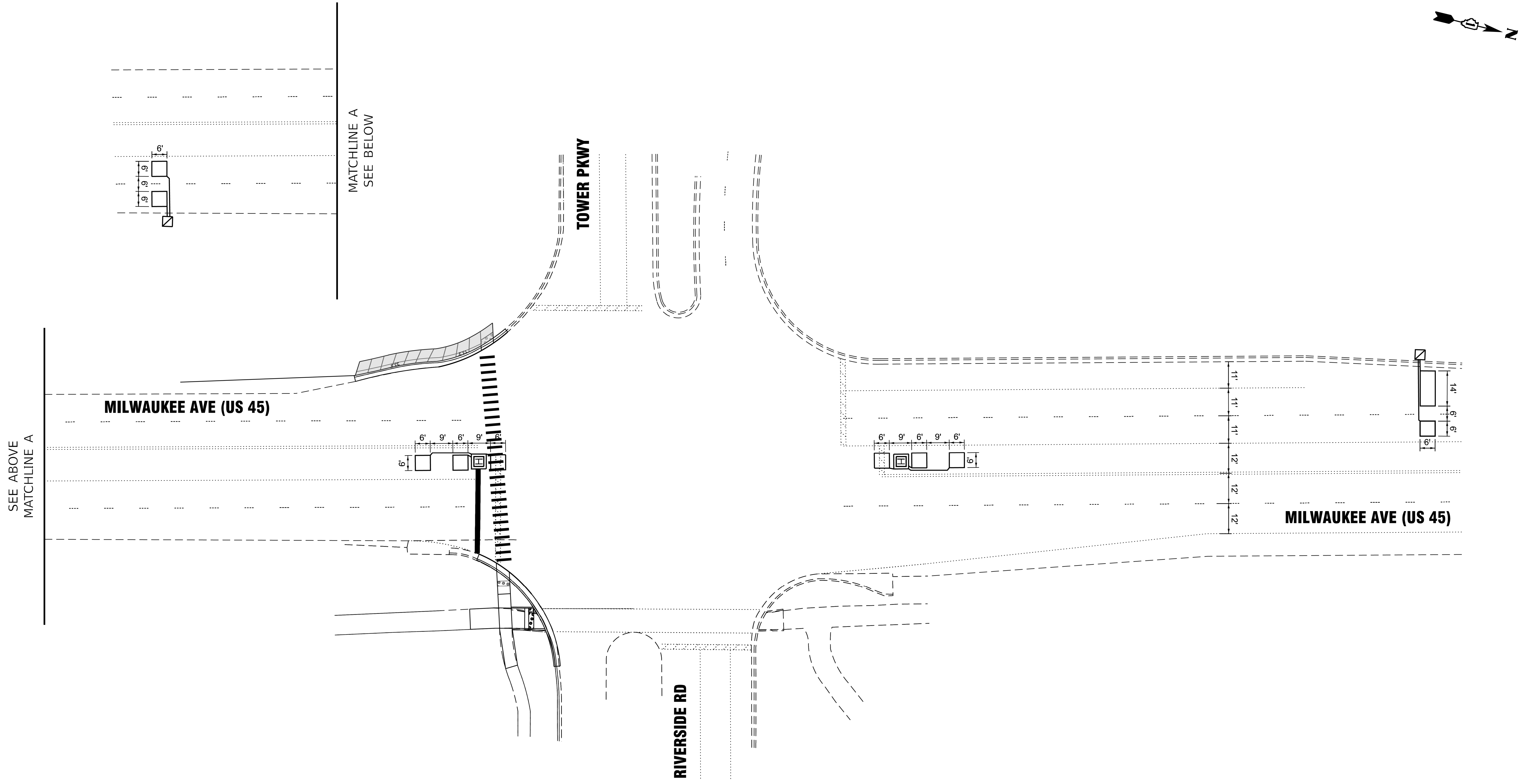
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MILWAUKEE AVE (US 45) AND TOWER PKWY/RIVERSIDE RD.

SCALE: SHEET 8 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	22
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

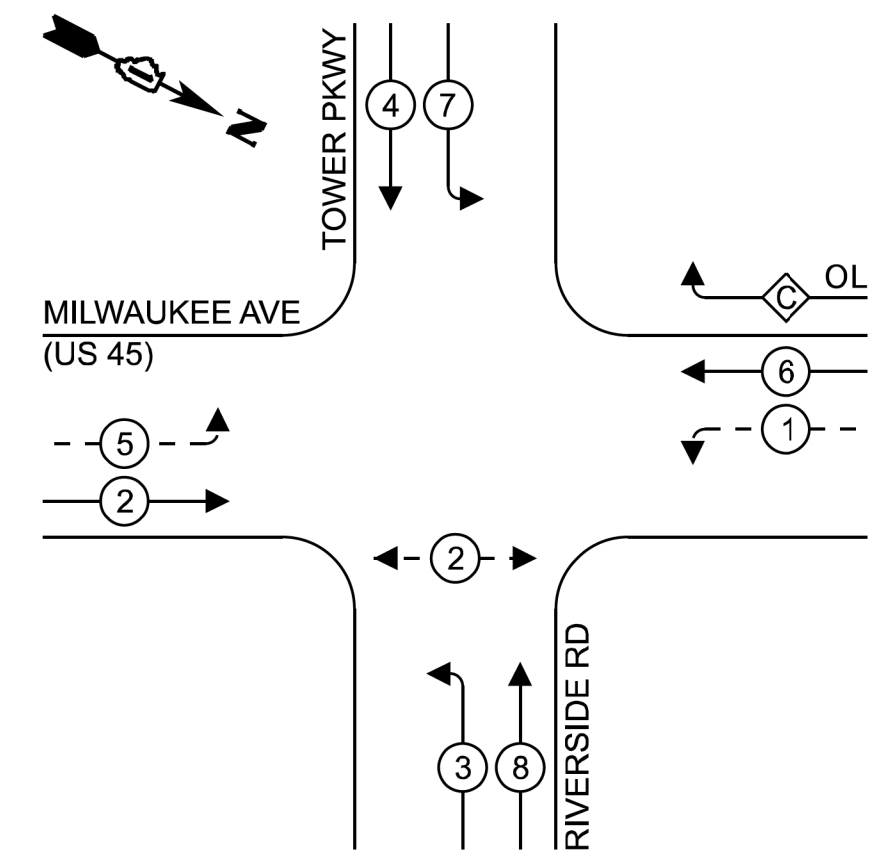
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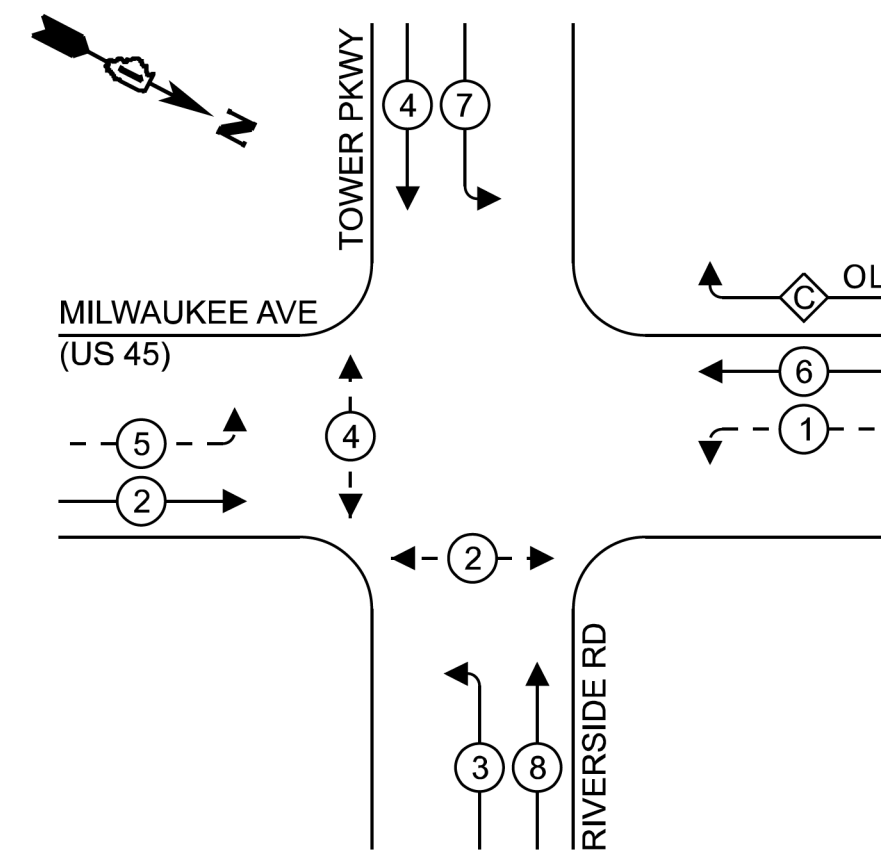
TS 21405
LCDOT CENTRACS
FORMER ECON 24

	USER NAME	= merin,jose	DESIGNED	-	REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP LAYOUT PLAN MILWAUKEE AVE (US 45)AND TOWER PKWY/RIVERSIDE RD.	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN	-	REVISED	-			330	2025-2116-RS,SW	LAKE	61	23
			CHECKED	-	REVISED	-			CONTRACT NO. 80C62				
	PLOT DATE	= 8/14/2026	DATE	-	REVISED	-			ILLINOIS FED. AID PROJECT				
	SCALE:									SHEET 9 OF 21 SHEETS STA. TO STA.			

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



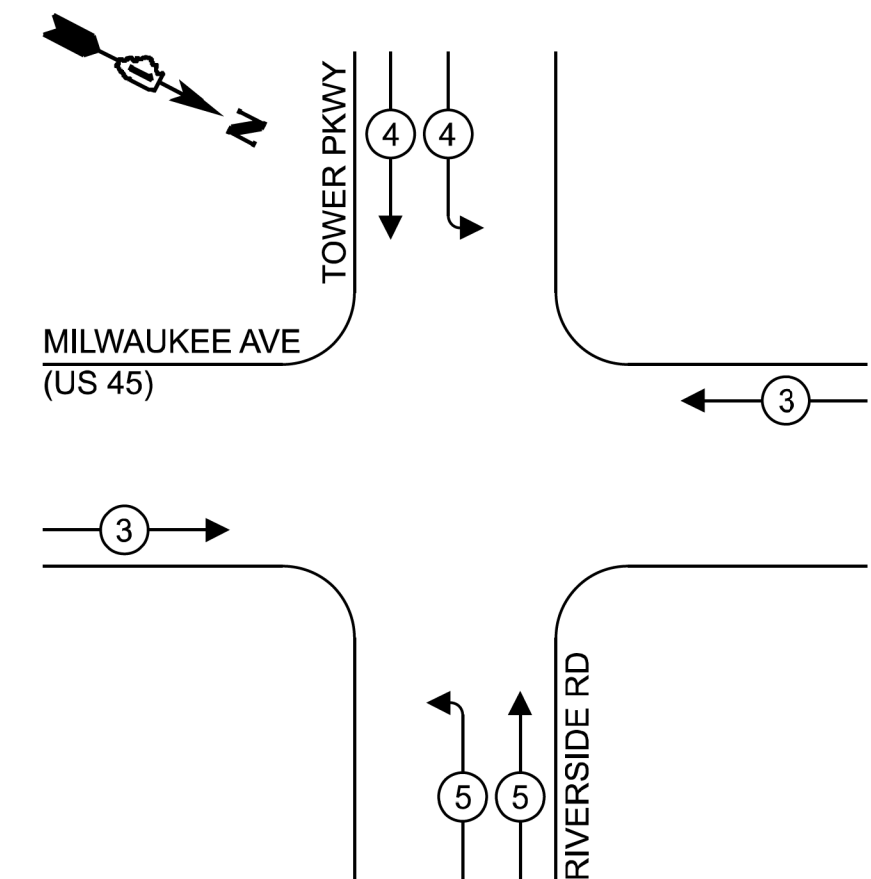
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER	PERMITTED PHASE	PROTECTED PHASE
C	6	7

EXISTING AND PROPOSED EMERGENCY
VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	463
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	477
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	22
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
DETECTOR LOOP, TYPE I	FOOT	384
MODIFY EXISTING CONTROLLER	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

VILLAGE OF LINCOLNSHIRE

1 OLDE HALF DAY RD
LINCOLNSHIRE, IL 60069

ENERGY SUPPLY: CONTACT: TERRI BLECK

PHONE: 815-816-5239

COMPANY: COMED

ACCOUNT NUMBER: 02943-93000

METER NUMBER:

TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			507
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1 112

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

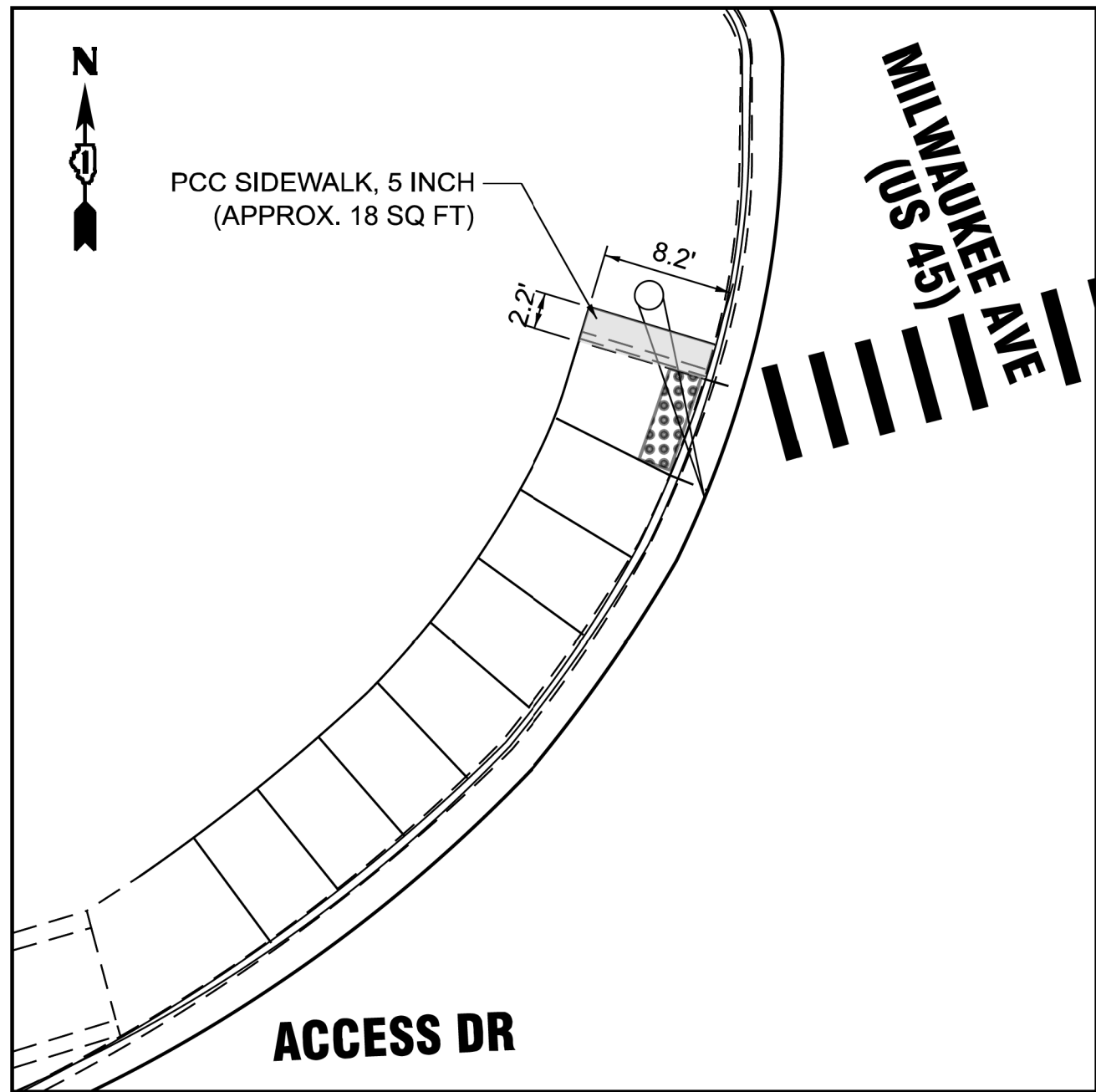
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MILWAUKEE AVE US (45) AND TOWER PKWY/RIVERSIDE RD

SCALE: SHEET 10 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	24
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

TS 21405
LCDOT CENTRACS
FORMER ECON 24

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



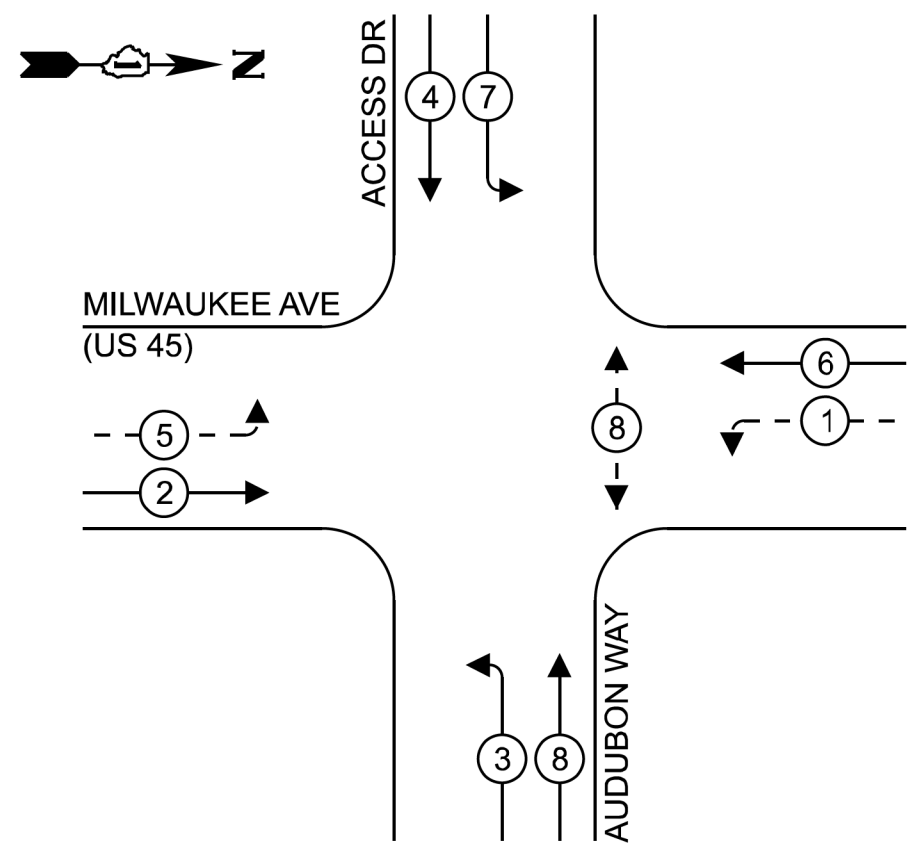
NW CORNER FOR NORTH CROSSWALK

1. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE NB AND SB MILWAUKEE AVE (US 45) INSIDE THROUGH LANES.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	25
		CONTRACT NO. 80C62		
ILLINOIS		FED. AID PROJECT		

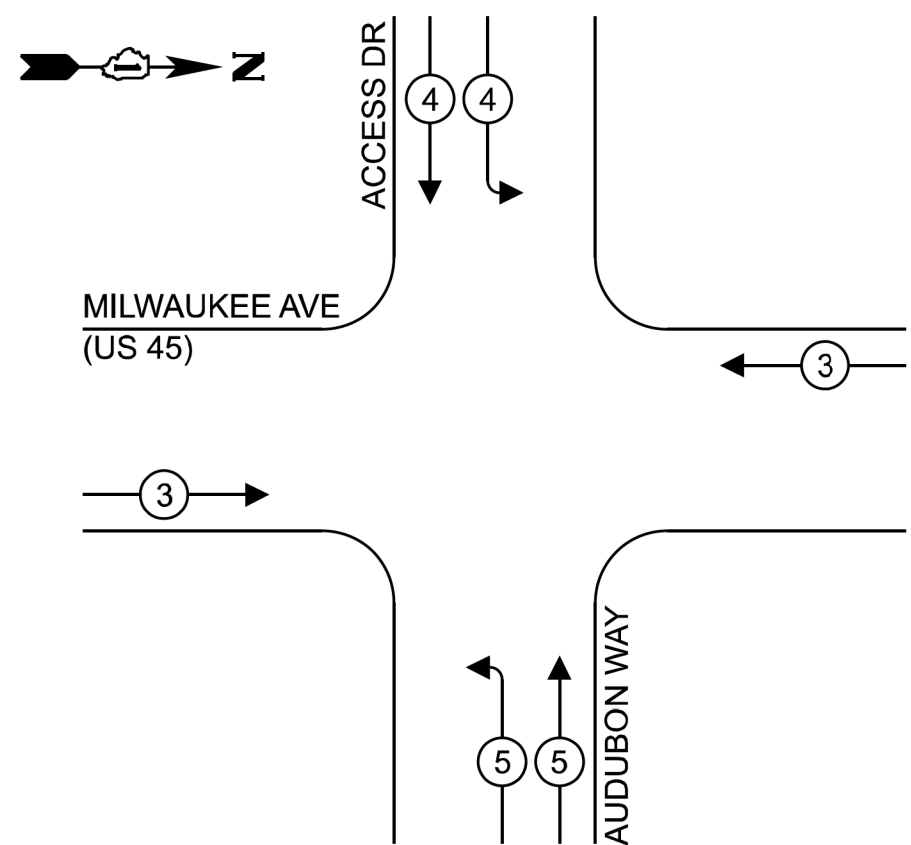
EXISTING CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	14	11	154
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			411
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1 016

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	18
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	781
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	690
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

VILLAGE OF LINCOLNSHIRE

1 OLDE HALF DAY RD
LINCOLNSHIRE, IL 60069

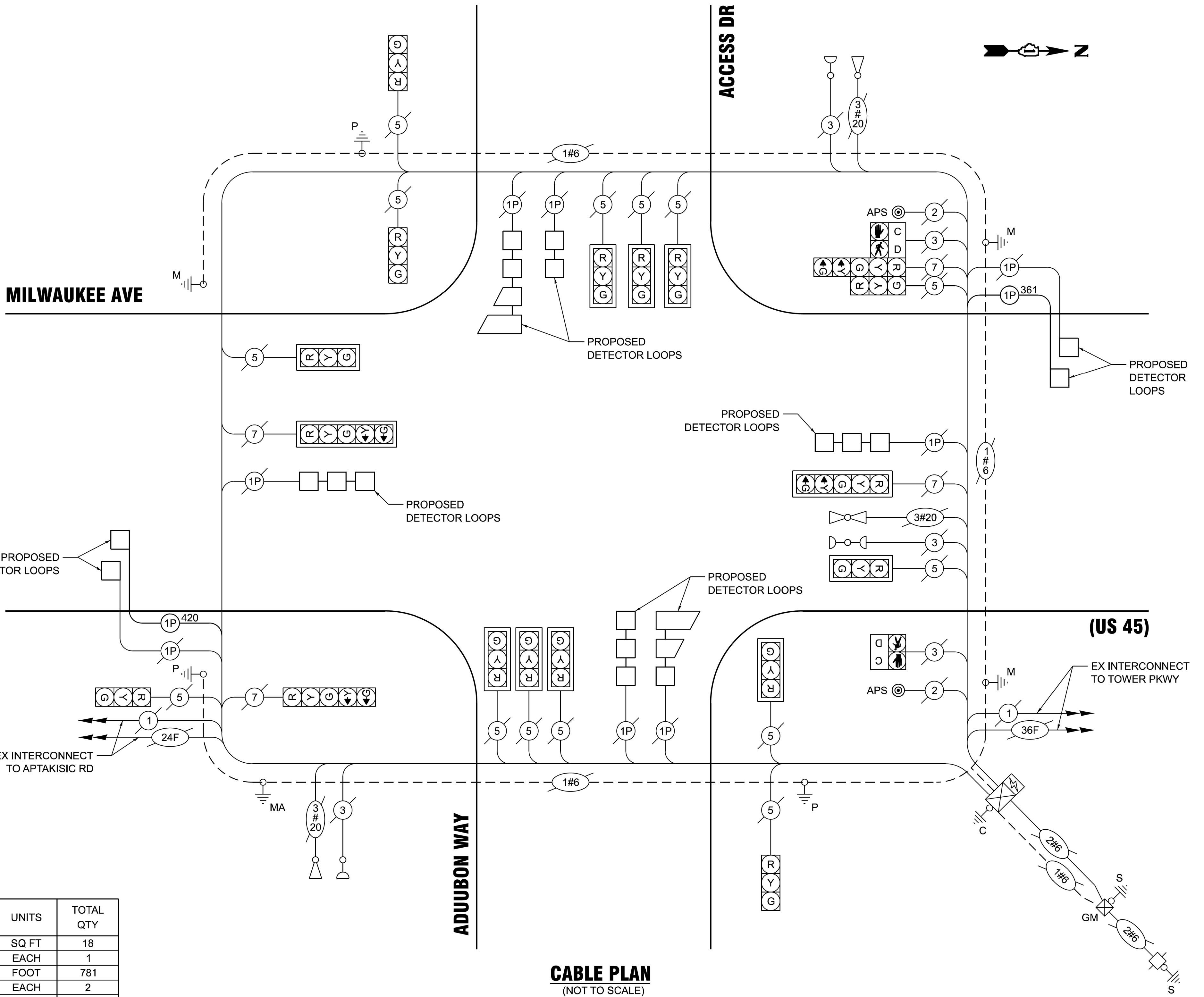
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.

PHONE: 866-639-3532

COMPANY: COMED

ACCOUNT NUMBER: 02943-93000

METER NUMBER: 272136921



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MILWAUKEE AVE (US 45) AND ACCESS DR/AUDUBON WAY

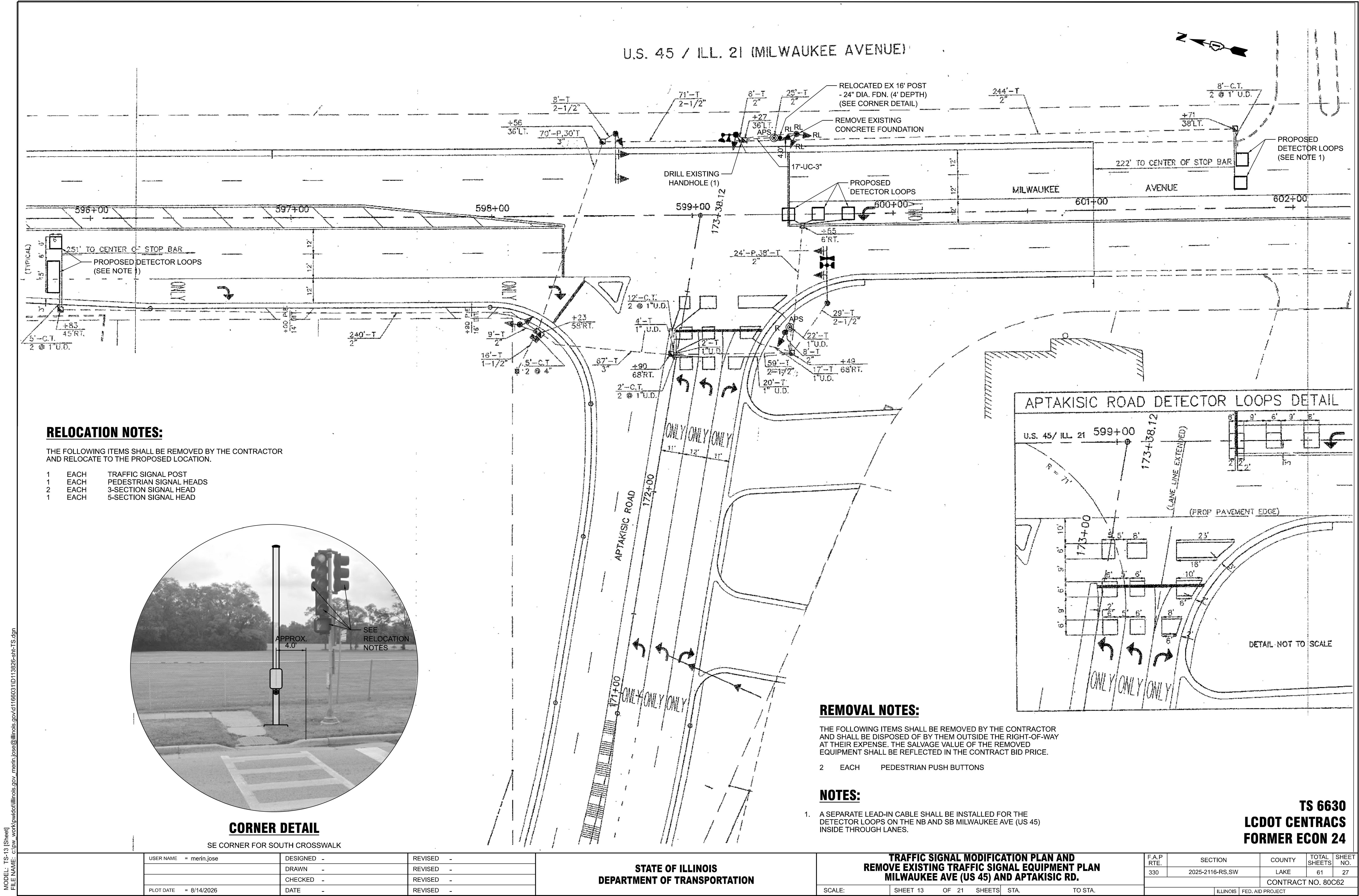
SCALE: SHEET 12 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	26
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

TS 6698
LCDOT CENTRACS
FORMER ECON 24

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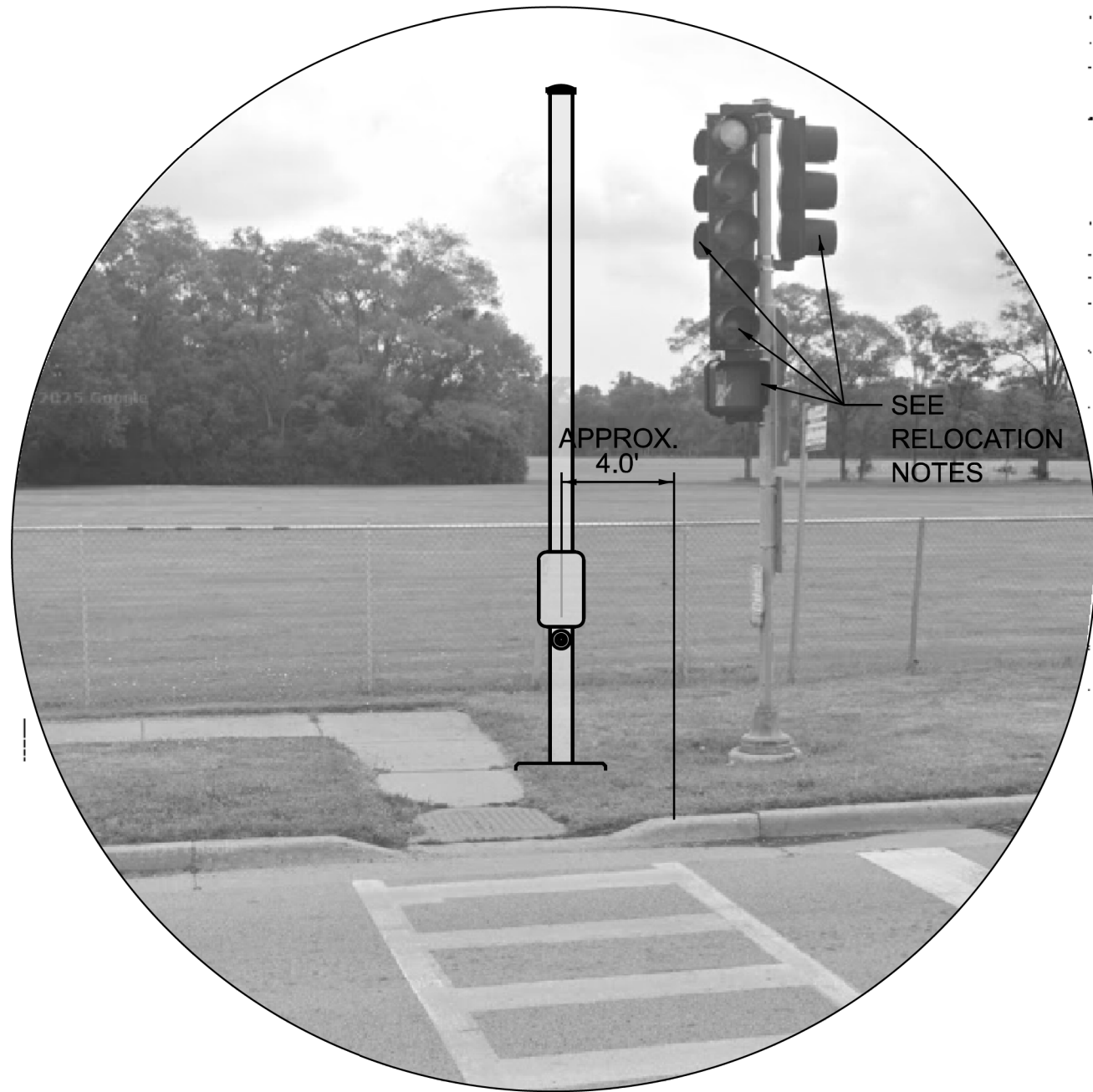
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RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATE TO THE PROPOSED LOCATION.

- | | | |
|---|------|-------------------------|
| 1 | EACH | TRAFFIC SIGNAL POST |
| 1 | EACH | PEDESTRIAN SIGNAL HEADS |
| 2 | EACH | 3-SECTION SIGNAL HEAD |
| 1 | EACH | 5-SECTION SIGNAL HEAD |



CORNER DETAIL

SE CORNER FOR SOUTH CROSSWALK

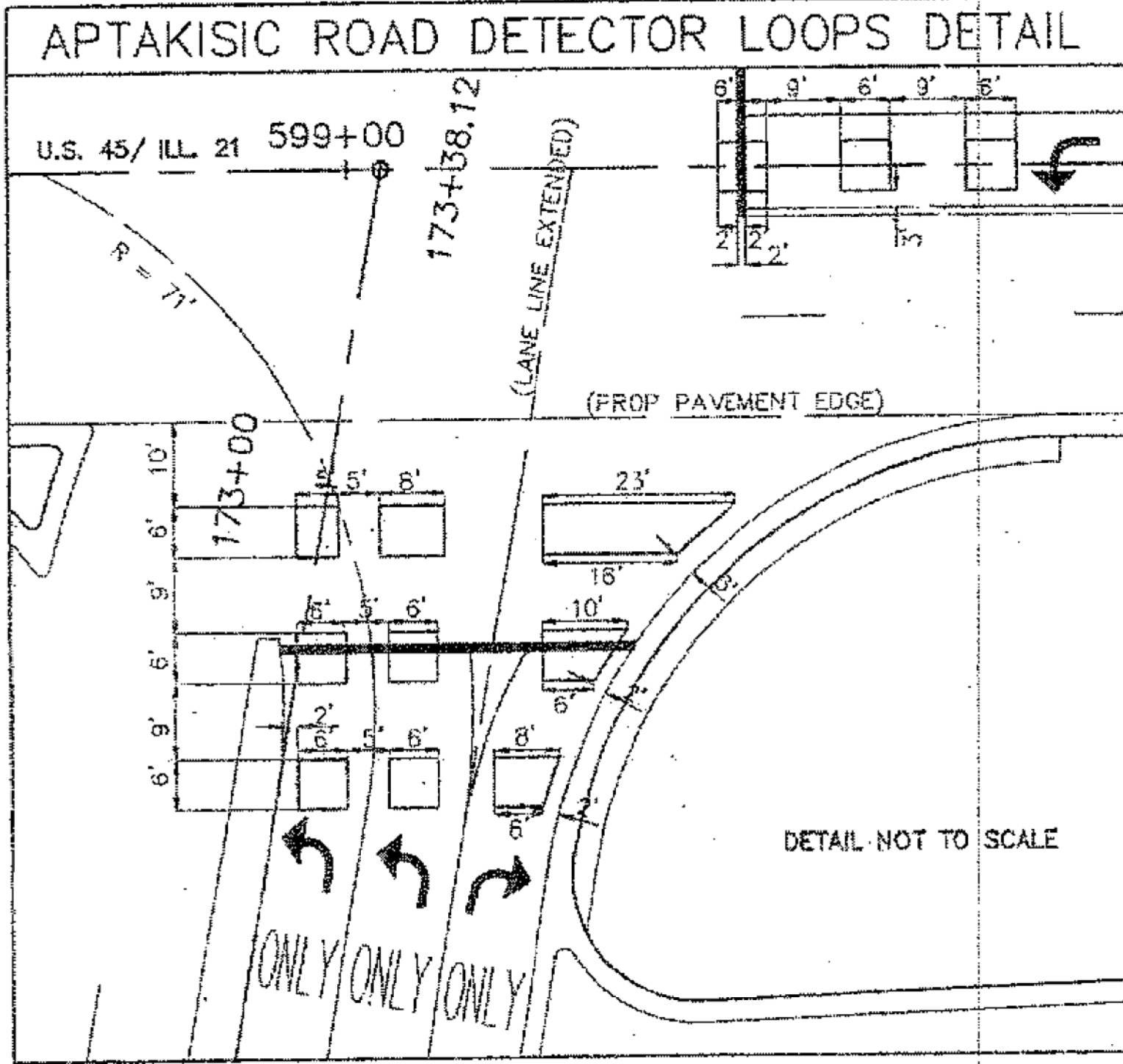
REMOVAL NOTES:

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

- | | | |
|---|------|-------------------------|
| 2 | EACH | PEDESTRIAN PUSH BUTTONS |
|---|------|-------------------------|

NOTES:

1. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE NB AND SB MILWAUKEE AVE (US 45) INSIDE THROUGH LANES.



**TS 6630
LCDOT CENTRACS
FORMER ECON 24**

USER NAME	= merlin.jose	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 8/14/2026	DATE	-	REVISED	-

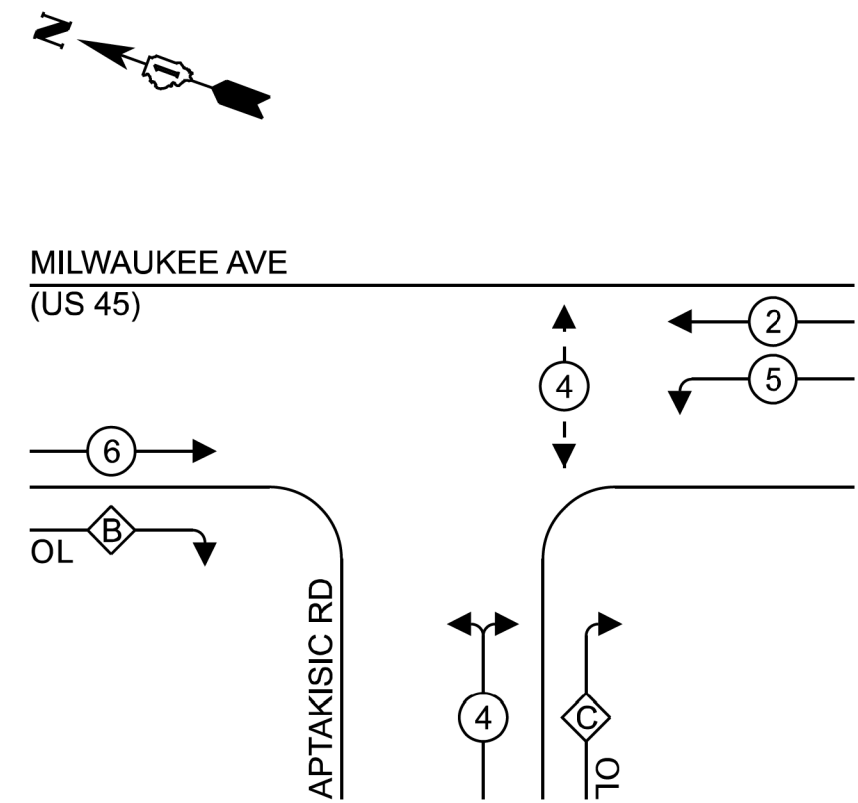
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MILWAUKEE AVE (US 45) AND APTAKISIC RD.**

SCALE: SHEET 13 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	27
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



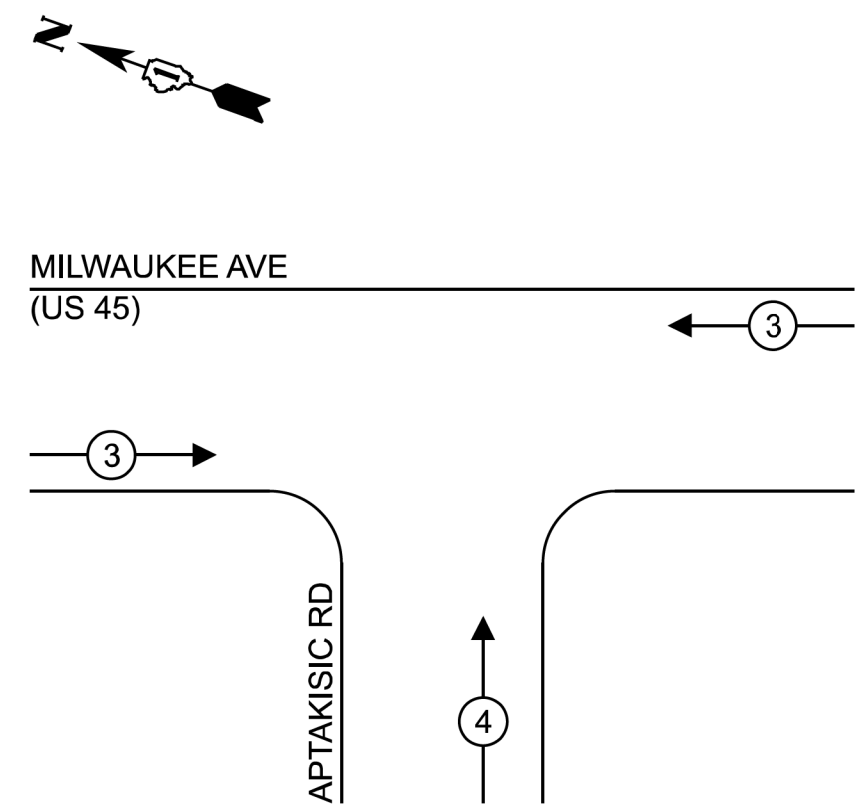
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER		PERMITTED PHASE		PROTECTED PHASE
B	=	6	+	4
C	=	4	+	5

EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE



MILWAUKEE AVE

(US 45)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	17
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	205
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	209
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	424
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	212
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	696
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	33
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	279
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

ENERGY COSTS TO:

VILLAGE OF LINCOLNSHIRE

1 OLDE HALF DAY RD
LINCOLNSHIRE, IL 60069

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.

PHONE: 866-639-3532

COMPANY: COMED

ACCOUNT NUMBER: 02943-93000

METER NUMBER: 273280285

CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

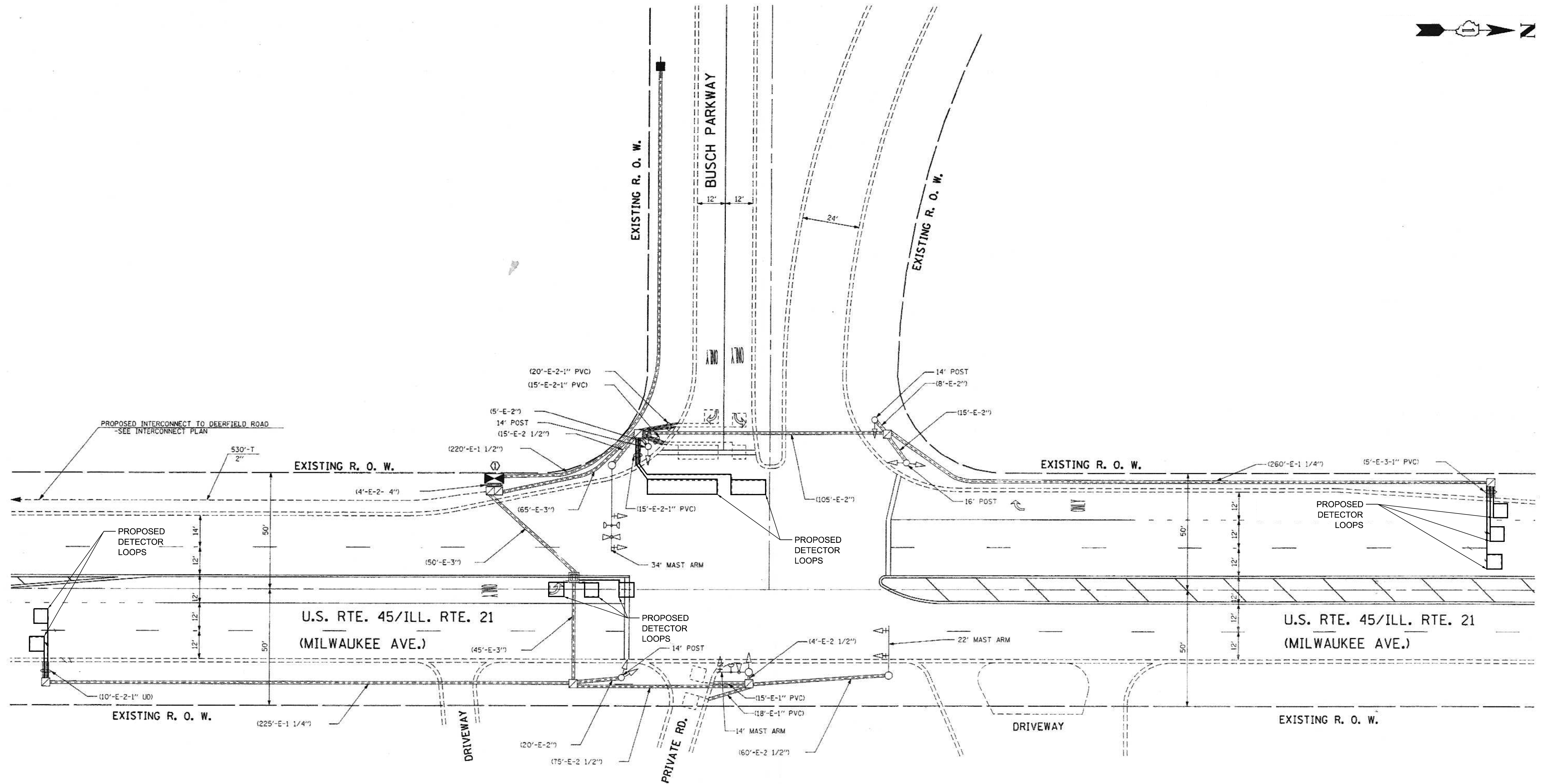
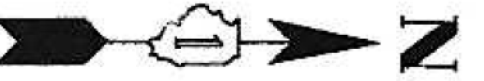
CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MILWAUKEE AVE (US 45) AND APTAKISIC RD

SCALE: SHEET 14 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	28
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

TS 6630
LCDOT CENTRACS
FORMER ECON 24

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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 8/14/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

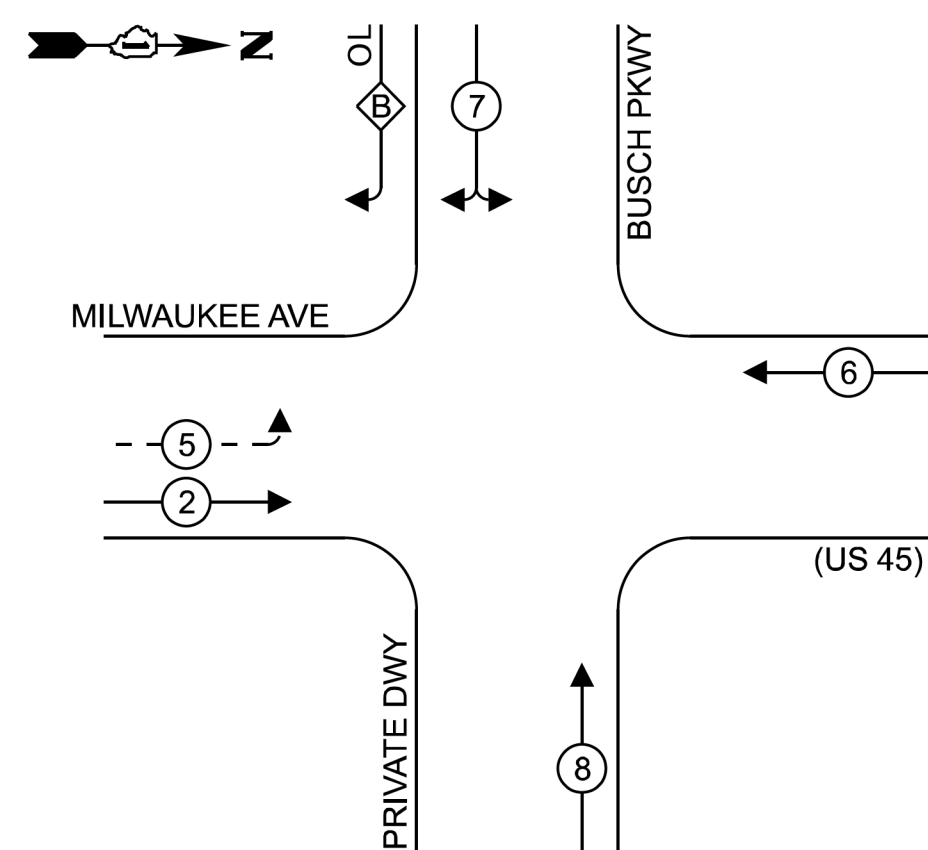
TRAFFIC SIGNAL MODIFICATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MILWAUKEE AVE (US 45) AND BUSCH PKWY

SCALE: SHEET 15 OF 21 SHEETS STA. TO STA.

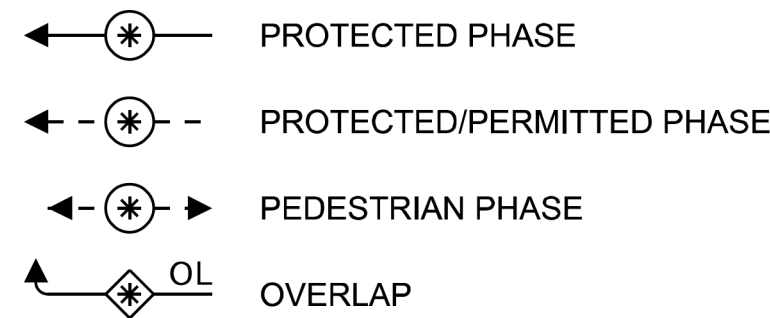
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	29
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

TS 6680
LCDOT CENTRACS
FORMER EAGLE 1H

EXISTING CONTROLLER SEQUENCE



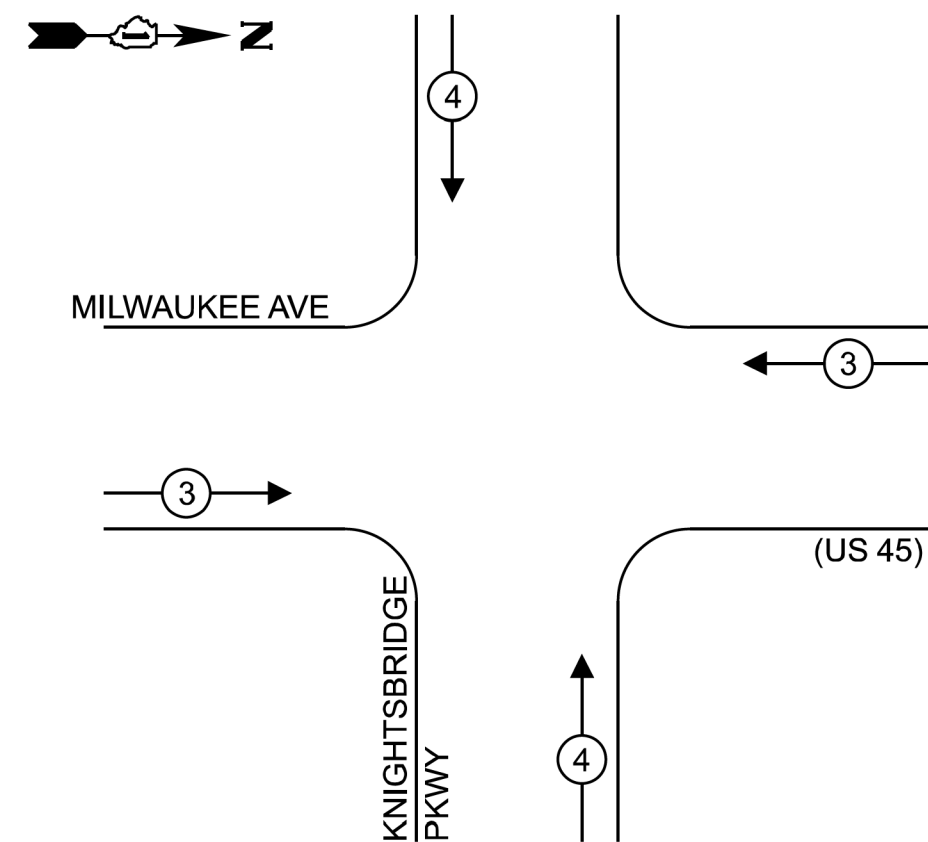
LEGEND:



RIGHT TURN OVERLAP
PHASE DESIGNATION:

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B	=	7	+	5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

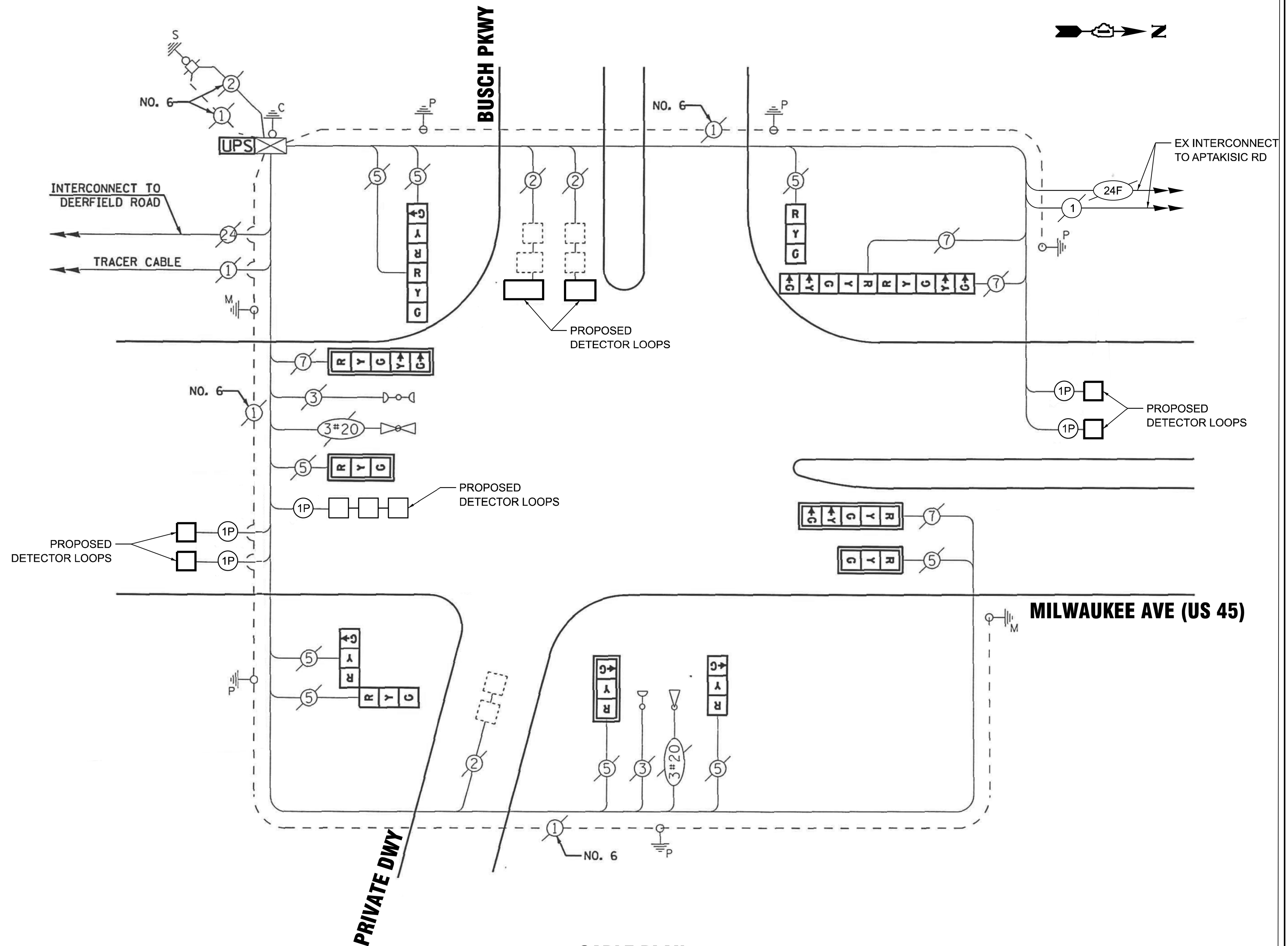
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	9	11	99
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			326
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			931

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	432

ENERGY COSTS TO:
VILLAGE OF BUFFALO GROVE
50 RAUPP BOULEVARD
BUFFALO GROVE, IL 60089

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: 866-639-3532
COMPANY: COMED
ACCOUNT NUMBER: 300032-46000
METER NUMBER: 273279990



CABLE PLAN

(NOT TO SCALE)

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MILWAUKEE AVE (US 45) AND BUSCH PKWY**

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	30
		CONTRACT NO. 80C62		
		ILLINOIS	FED. AID PROJECT	

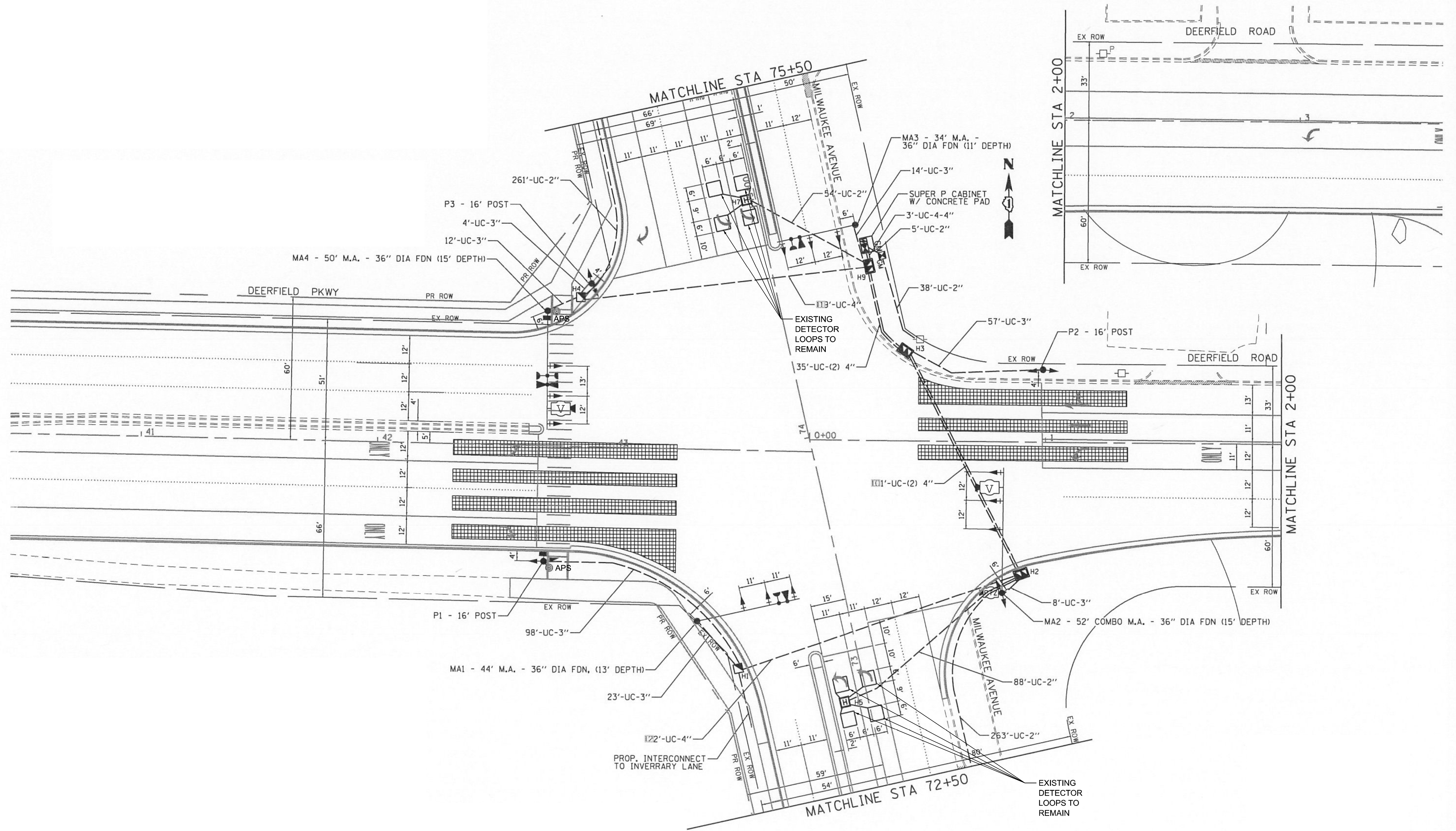
**TS 6680
LCDOT CENTRACS
FORMER EAGLE 1H**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET 16	OF 21	SHEETS	STA.	TO STA.
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TS 6650
LCDOT CENTRACS
FORMER EAGLE 1H

USER NAME	merit.jose	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	8/14/2026	DATE	-	REVISED	-

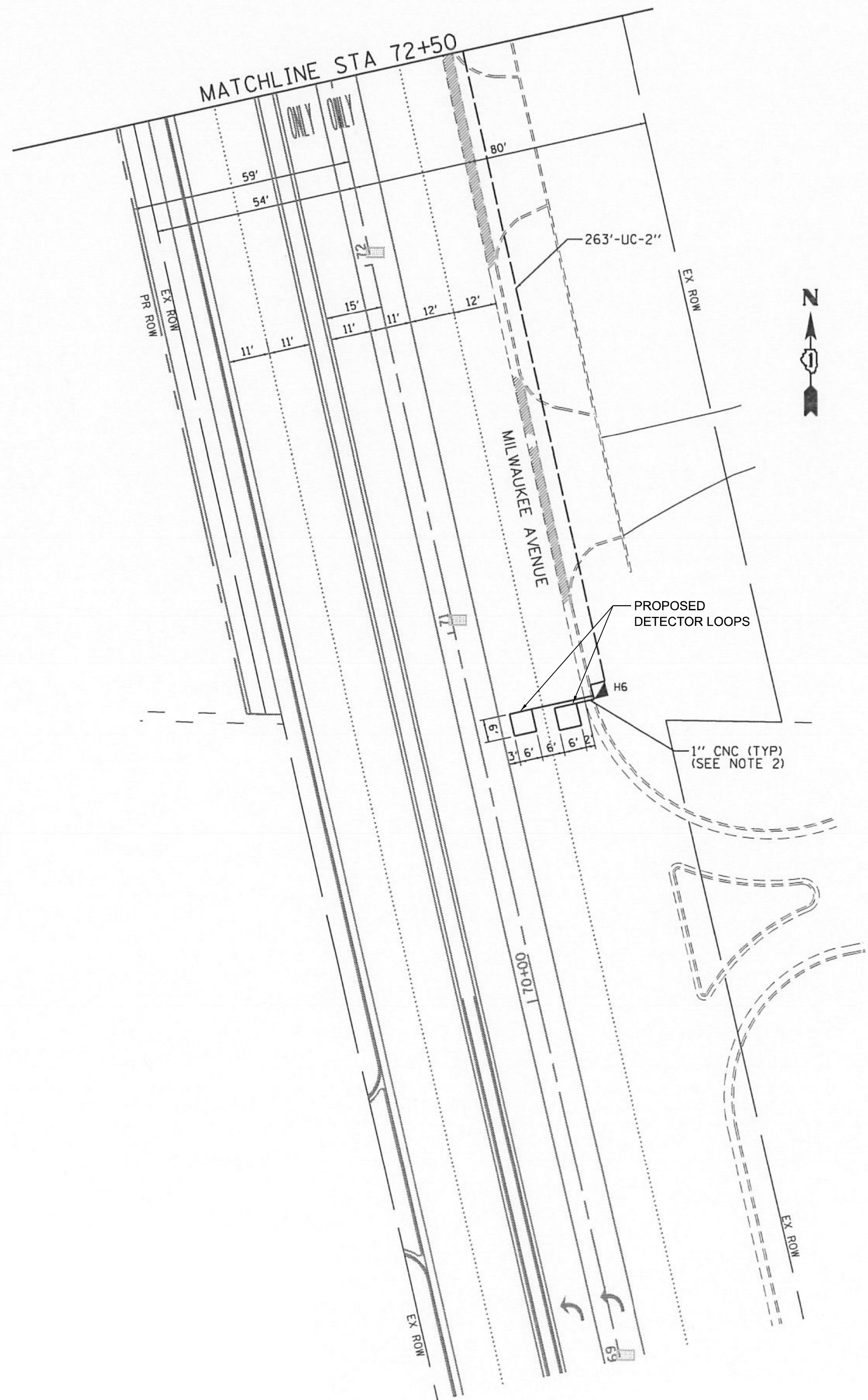
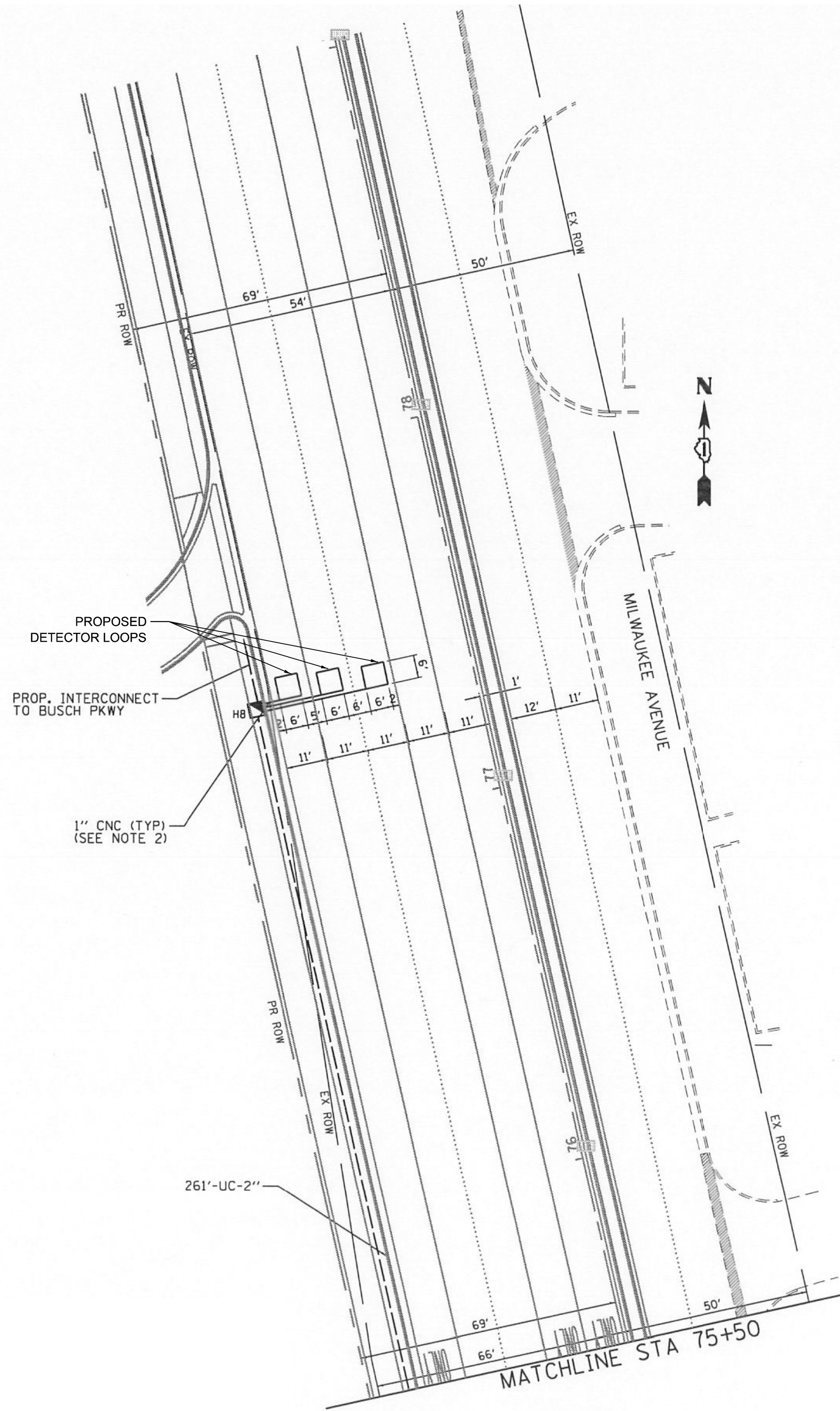
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL MODIFICATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MILWAUKEE AVE (US 45) AND DEERFIELD PKWY**

SCALE: SHEET 17 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	31
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

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TS 6650
LCDOT CENTRACS
FORMER EAGLE 1H

USER NAME	= merin,jose	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 8/14/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL MODIFICATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
MILWAUKEE AVE (US 45) AND DEERFIELD PKWY**

SCALE: SHEET 18 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	32
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

 PROTECTED PHASE
 PROTECTED/PERMITTED PHASE
 PEDESTRIAN PHASE
 OVERLAP

OVERLAP LETTER		PERMITTED PHASE		PROTECTED PHASE
B	=	4	+	5
C	=	6	+	7

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	12	11	132
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			441
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1 046

ITEM DESCRIPTION	UNIT	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	432

METER NUMBER: 273105346

NTITIES

UNIT	TOTAL QTY
FOOT	432

RTATION

CEPT.

CABLE PLAN
(NOT TO SCALE)

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
MILWAUKEE AVE (US 45) AND DEERFIELD PKWY**

SCALE:	SHEET 19	OF 21	SHEETS	STA.	TO STA.
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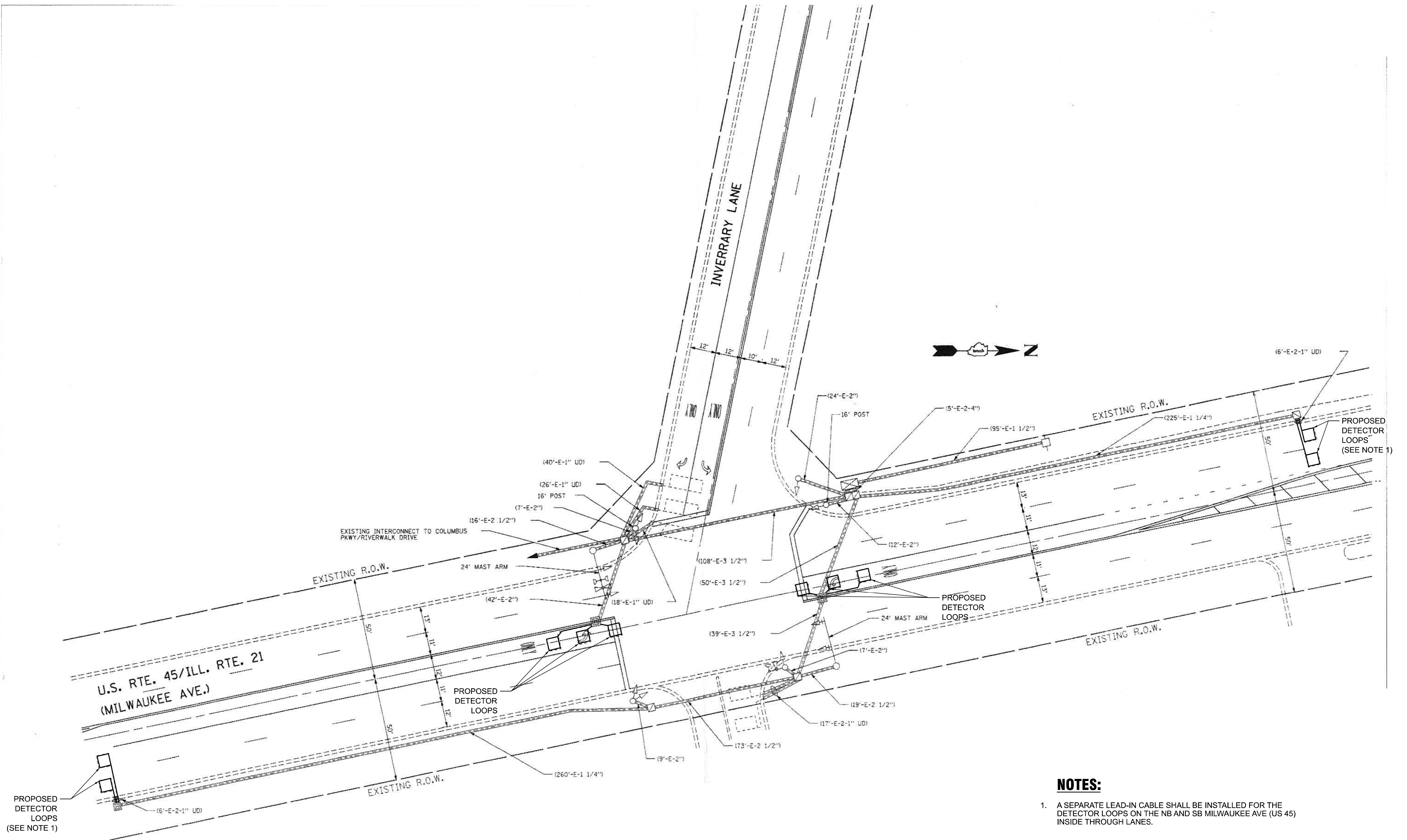
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	33
CONTRACT NO. 80C62				
ILLINOIS		FED. AID PROJECT		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

MODEL: TS-19 [Sheet]
FILE NAME: c:\pw work\pwidot\illinois.gov merin;jose@illinois.gov\d1166031\D113826-sht-TS.dgn

MODEL: TS-20 (Sheet)
FILE NAME: c:\p\work\pav\illinois.gov\1166031D113826-shr-TS.dgn



NOTES:

1. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE NB AND SB MILWAUKEE AVE (US 45) INSIDE THROUGH LANES.

TS 6660
LCDOT CENTRACS
FORMER EAGLE 1H

USER NAME	= merin,jose	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	= 8/14/2026	DATE	-	REVISED	-

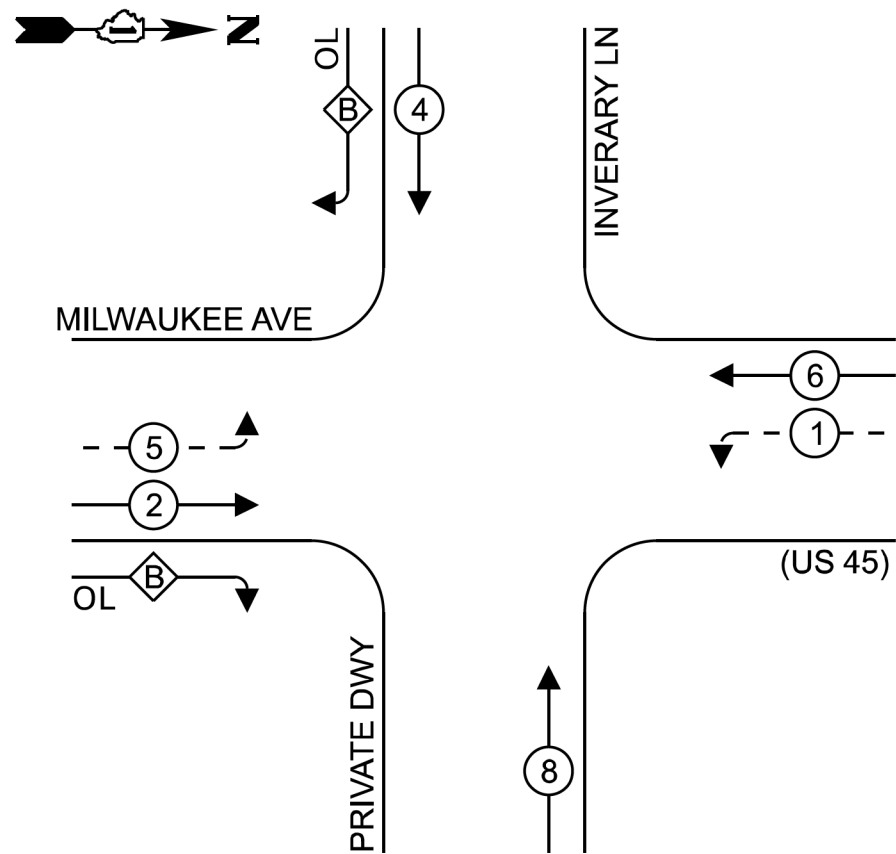
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAAAN
MILWAUKEE AVE (US 45) AND INVERRARY LN

SCALE: SHEET 20 OF 21 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	34
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



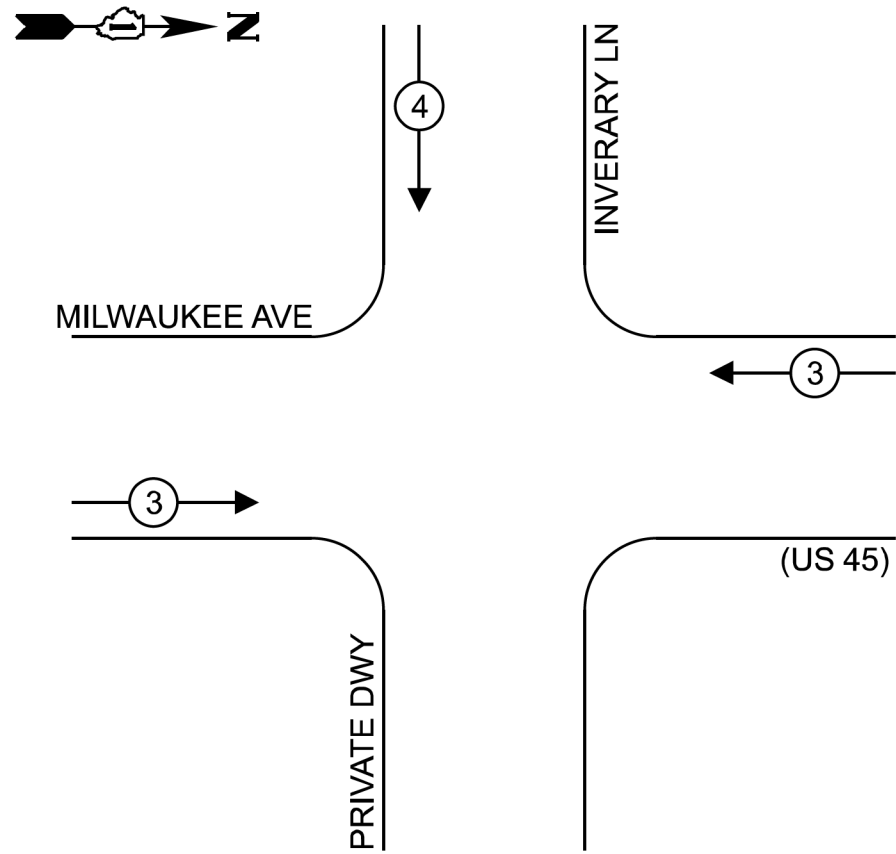
LEGEND:

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

RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER	=	PERMITTED PHASE	+	PROTECTED PHASE
B	=	4	+	5

EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	5	11	55
4-SECTION	-	14	-
5-SECTION	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
JPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			343
JPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			048

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	725
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	360

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 CENTER CT
SCHAUMBURG, IL 60196

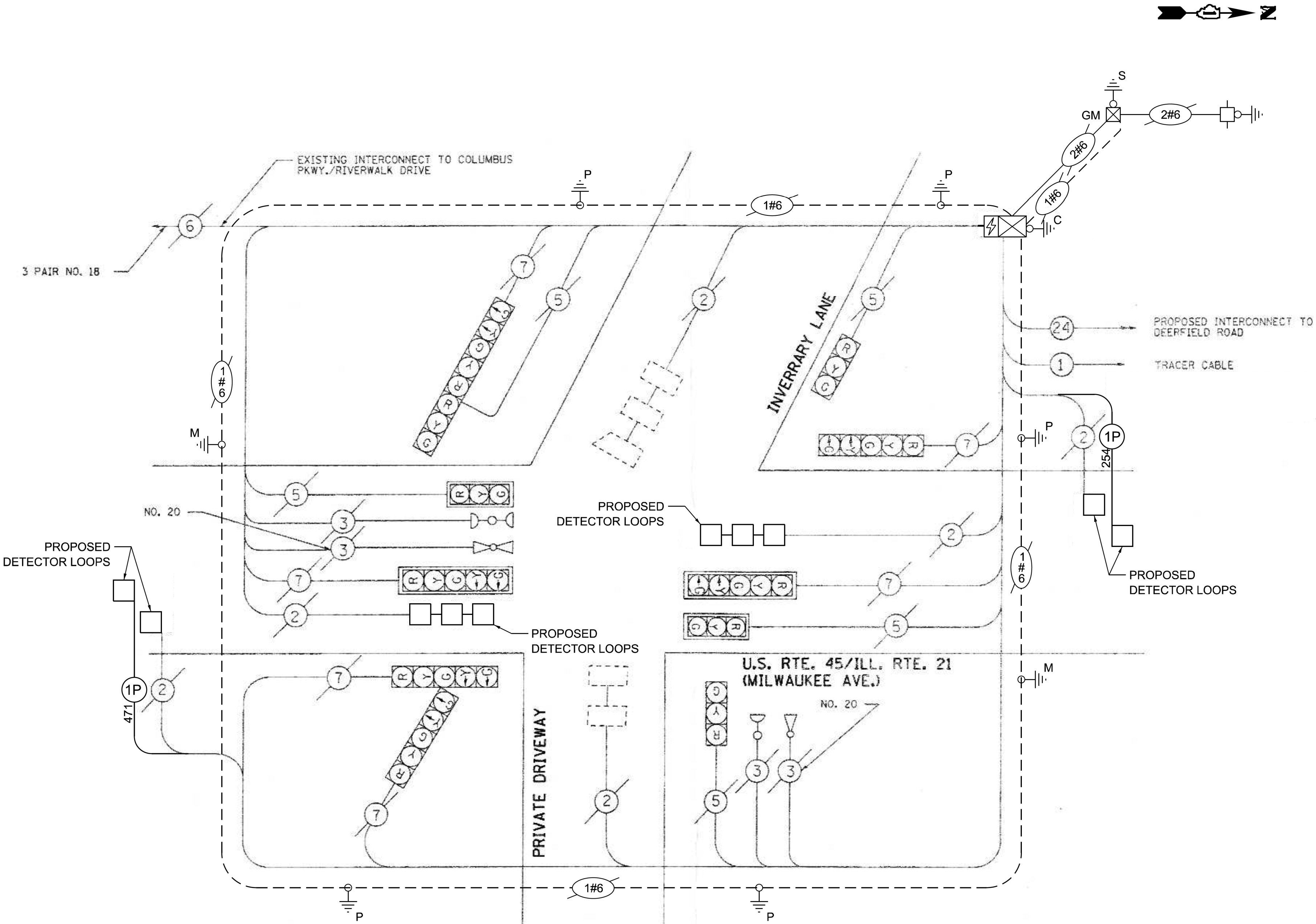
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.

PHONE: 866-639-3532

COMPANY: COMED

ACCOUNT NUMBER: 13158-24000

METER NUMBER: 273105078



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY PREEMPTION SEQUENCE
MILWAUKEE AVE (US 45) AND INVERRARY LN

SCALE: SHEET 21 OF 21 SHEETS STA. TO STA.

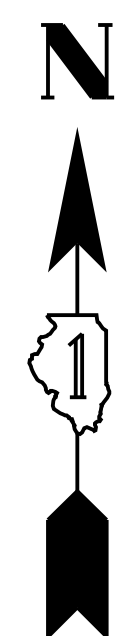
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	35
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

TS 6660
LCDOT CENTRACS
FORMER EAGLE 1H

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APTAKISIC RD

IL ROUTE 21/US ROUTE 45
(MILWAUKEE AVE)



CONC

CONC

CONC

EX CONC SW

LEGEND

xx.xx'

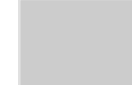
EXISTING LENGTH

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PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS

MODEL: Aptakisic rd new (Sheet)
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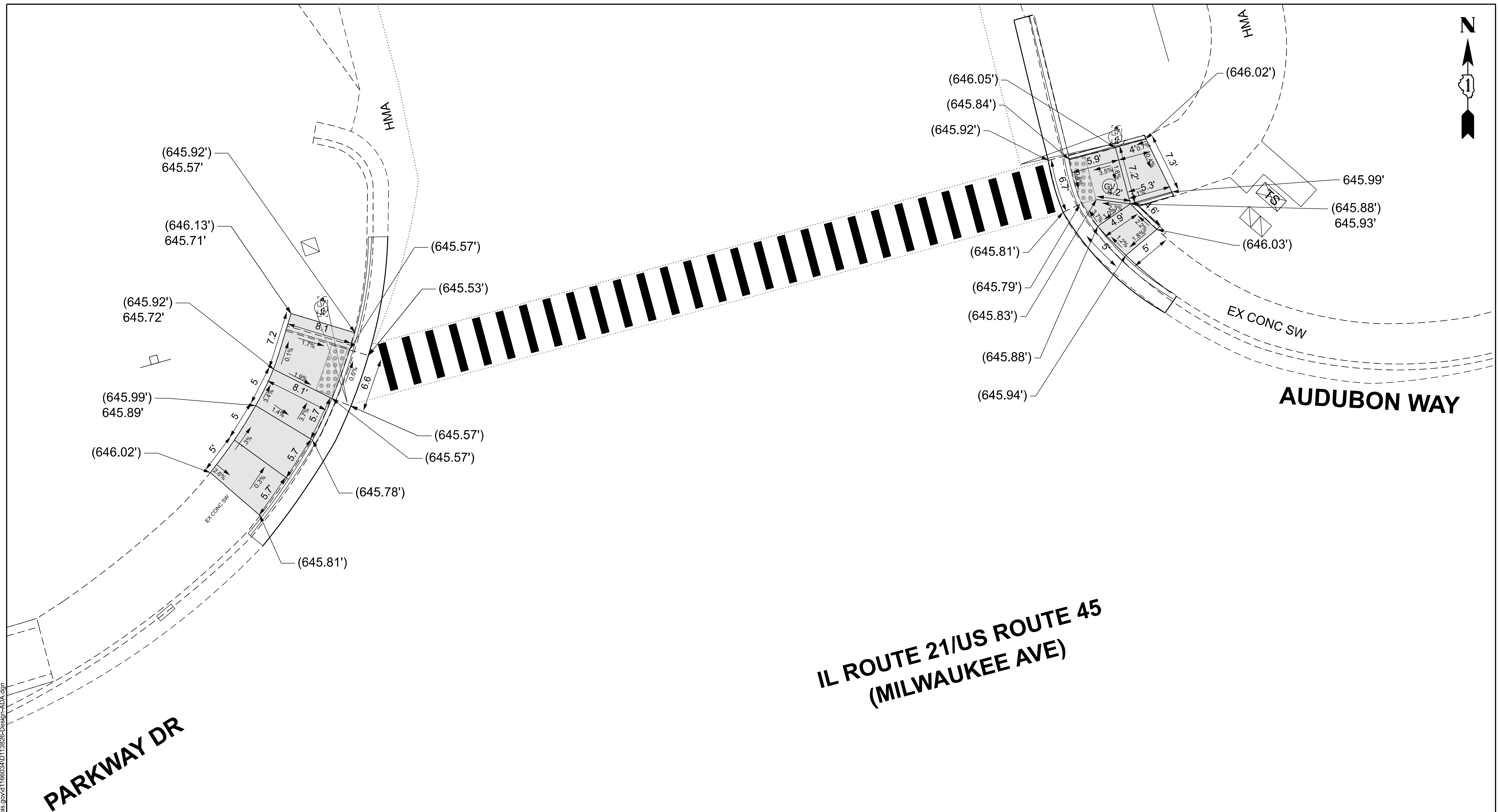
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		CHECKED	-	REVISED	-
PLOT DATE	= 6/24/2026	DATE	-	REVISED	-

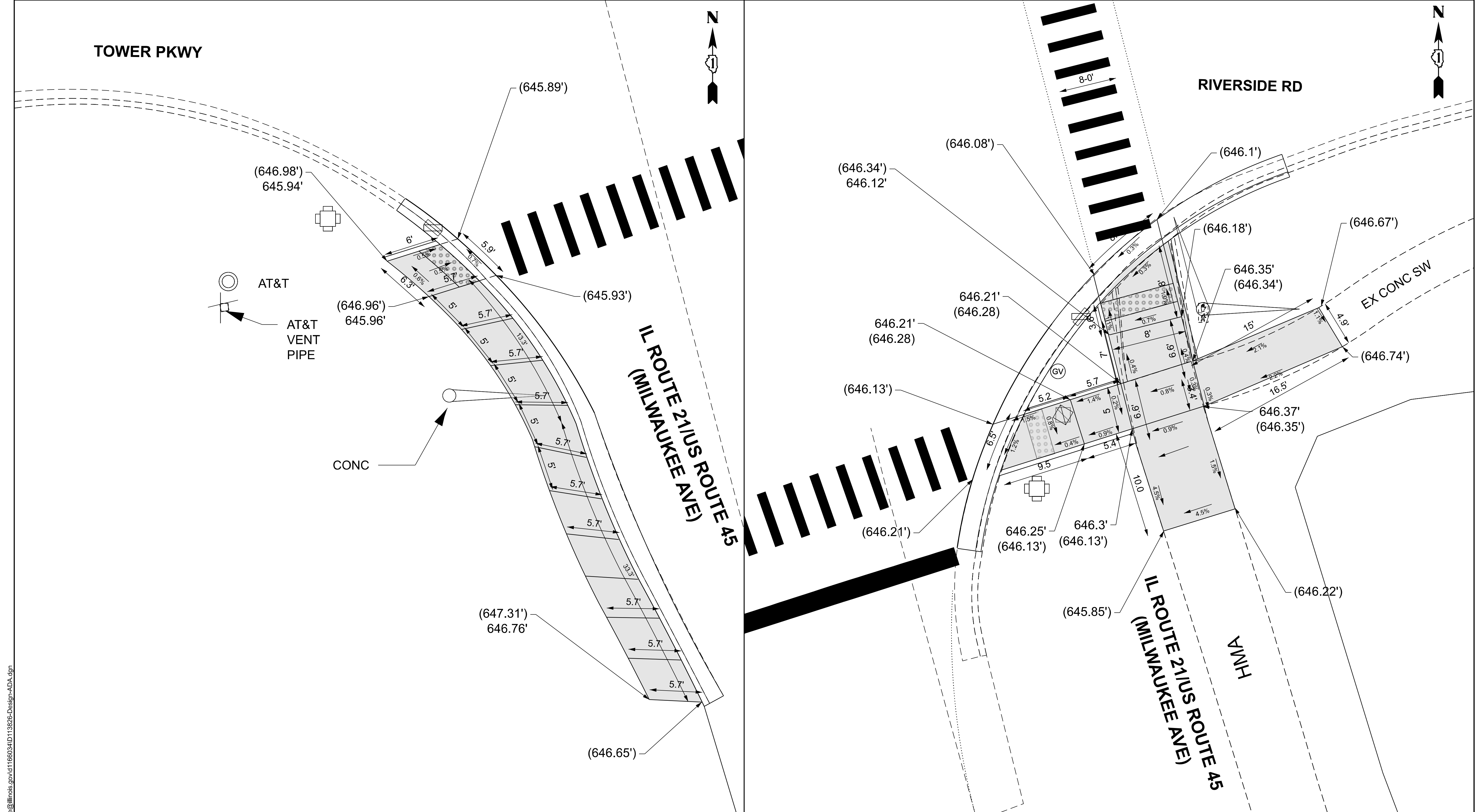
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN CURB RAMP DETAILS
APTAKISIC RD (SE & SW CORNER)

SCALE: SHEET 1 OF 6 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	36
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

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LEGEND

xx.xx'

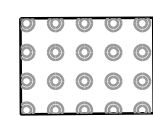
EXISTING LENGTH

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PROPOSED SIDE CURB



PROPOSED SIDEWALK



DETECTABLE WARNINGS

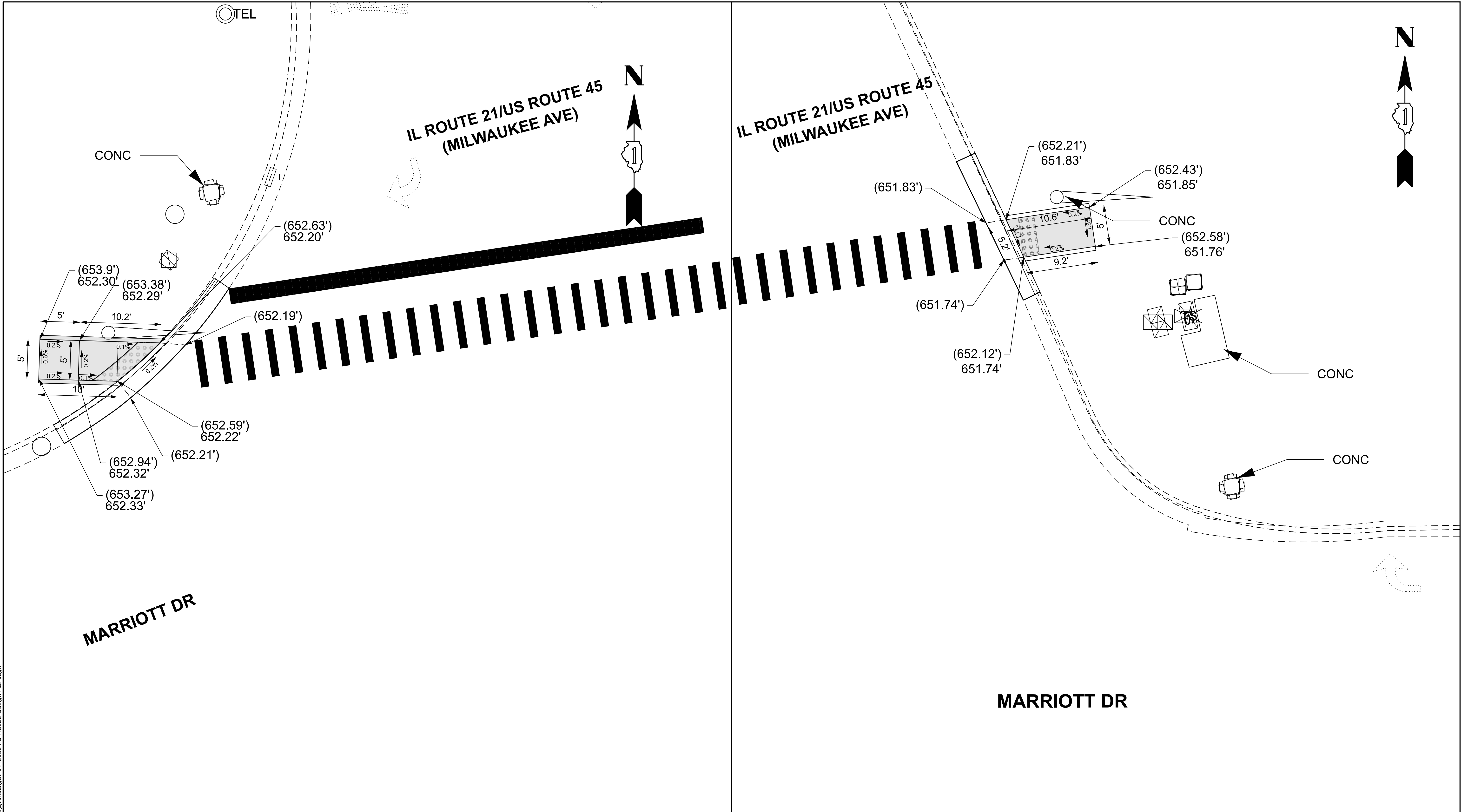
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN CURB RAMP DETAILS TOWER/RIVERSIDE RD (NE & NW CORNERS)

SCALE: SHEET 3 OF 6 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	38
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

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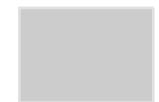
LEGEND

XX.XX'

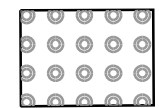
EXISTING LENGTH

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PROPOSED SIDE CURB



PROPOSED SIDEWALK



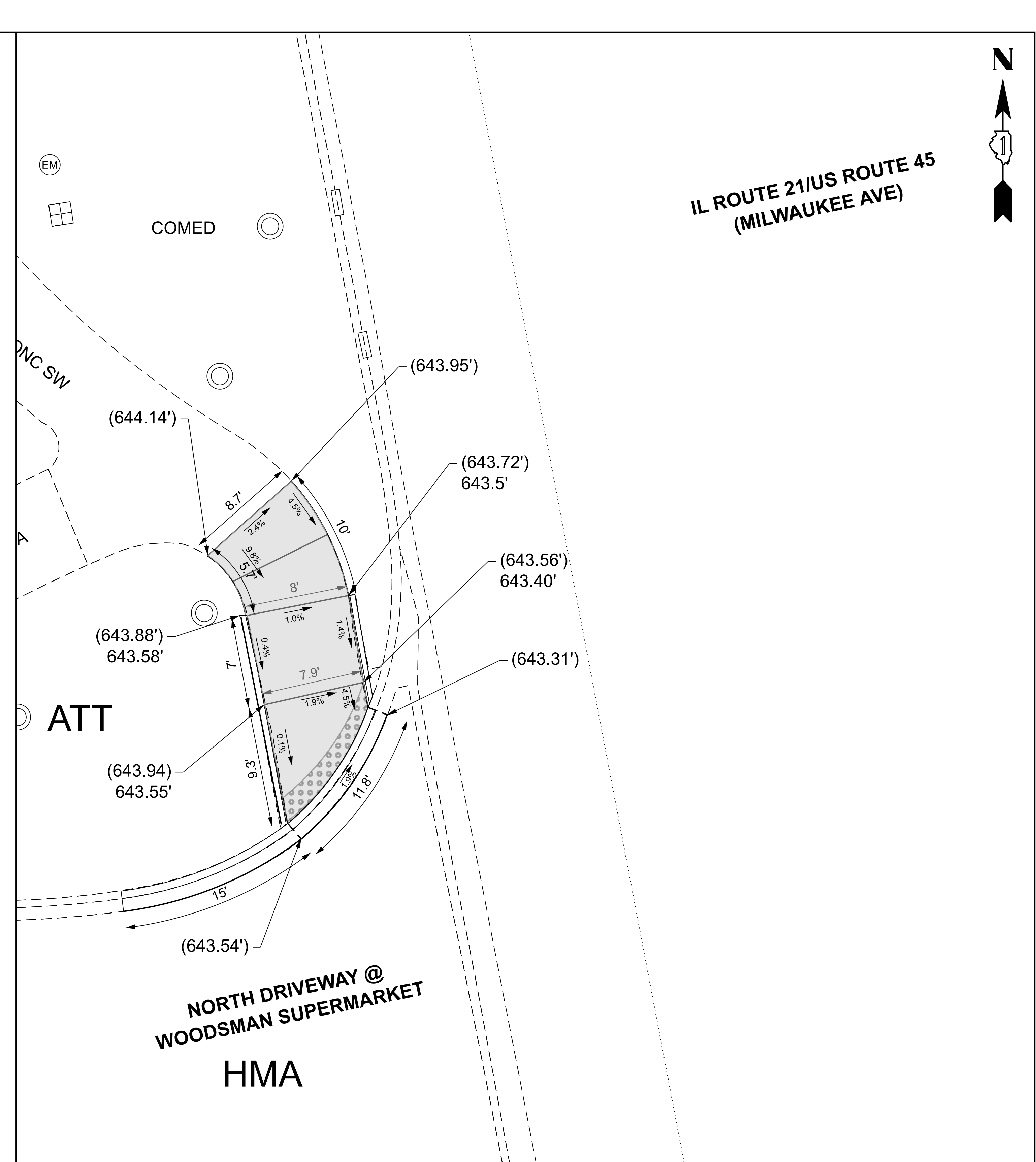
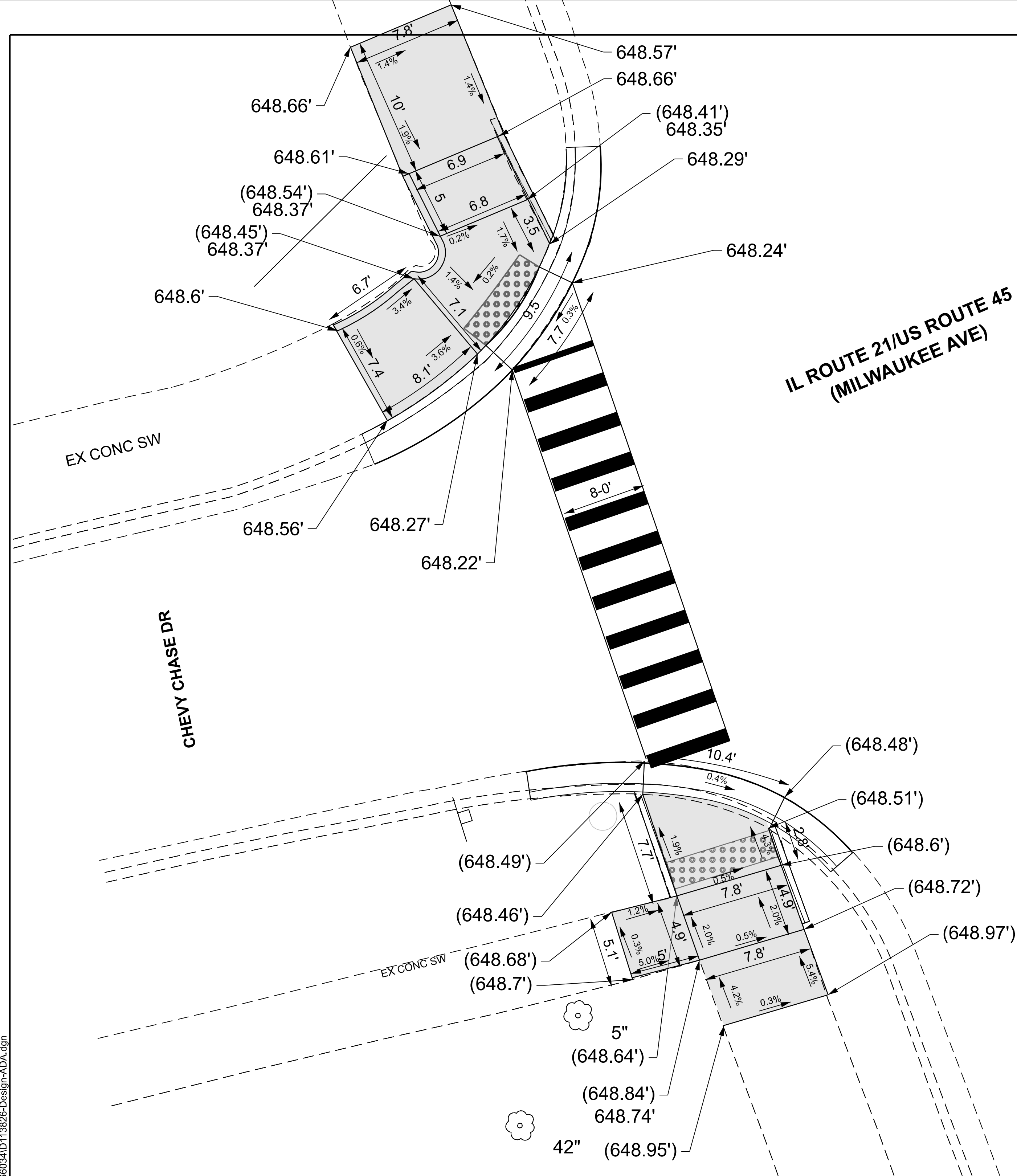
DETECTABLE WARNINGS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN CURB RAMP DETAILS
MARRIOT DR.(NE&NW CORNERS)

SCALE: SHEET 4 OF 6 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	39
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				



LEGEND

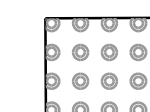
xx.xx¹

EXISTING LENGTH

===== PROPOSED SIDE CURB



PROPOSED SIDEWALK



DETECTABLE WARNINGS

USER NAME = merin,jose	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 6/24/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

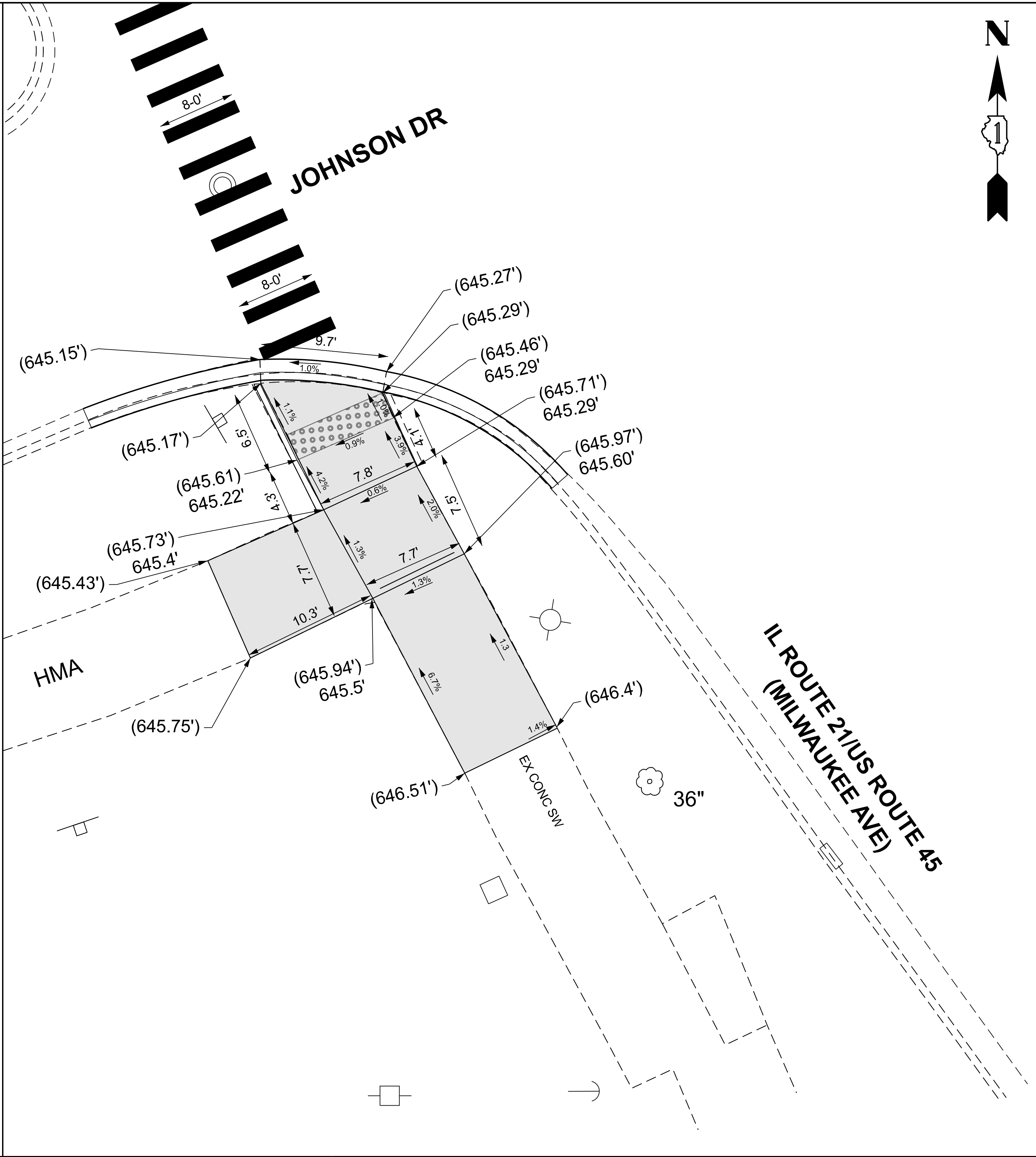
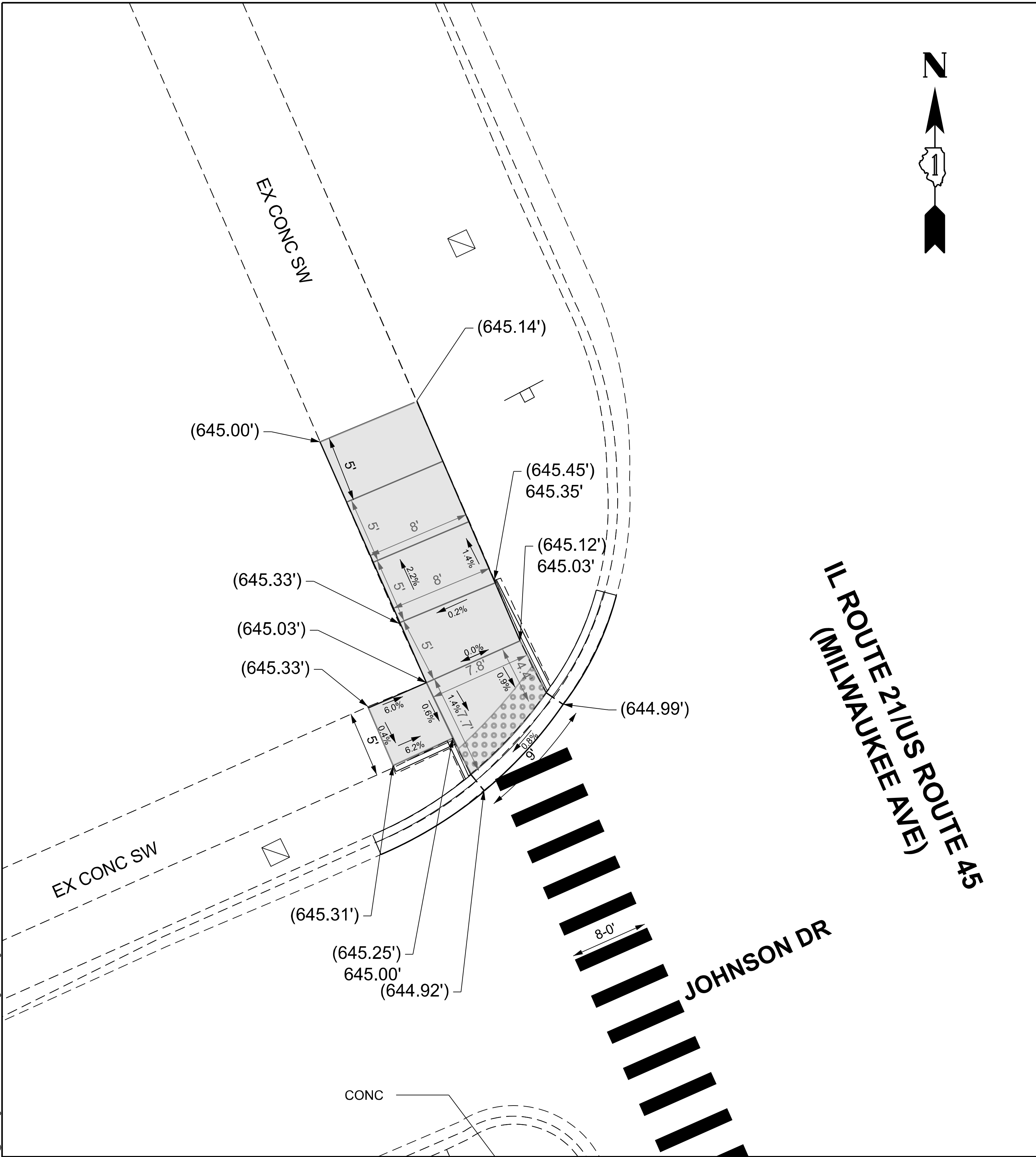
**PEDESTRIAN CURB RAMP DETAILS
CHEVY CHASE DR (NW & NE CORNER)
DRIVEWAY N/O DEERFIELD PKWY (NW CORNER)**

SCALE:	SHEET 5	OF 6	SHEETS	STA. 0+00.00	TO STA. 0+00.00
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	40
		CONTRACT NO. 80C62		
		ILLINOIS	FED. AID PROJECT	

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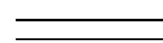
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LEGEND

xx.xx'

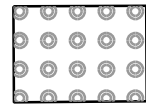
EXISTING LENGTH



PROPOSED SIDE CURB



PROPOSED SIDEWALK



DETECTABLE WARNINGS

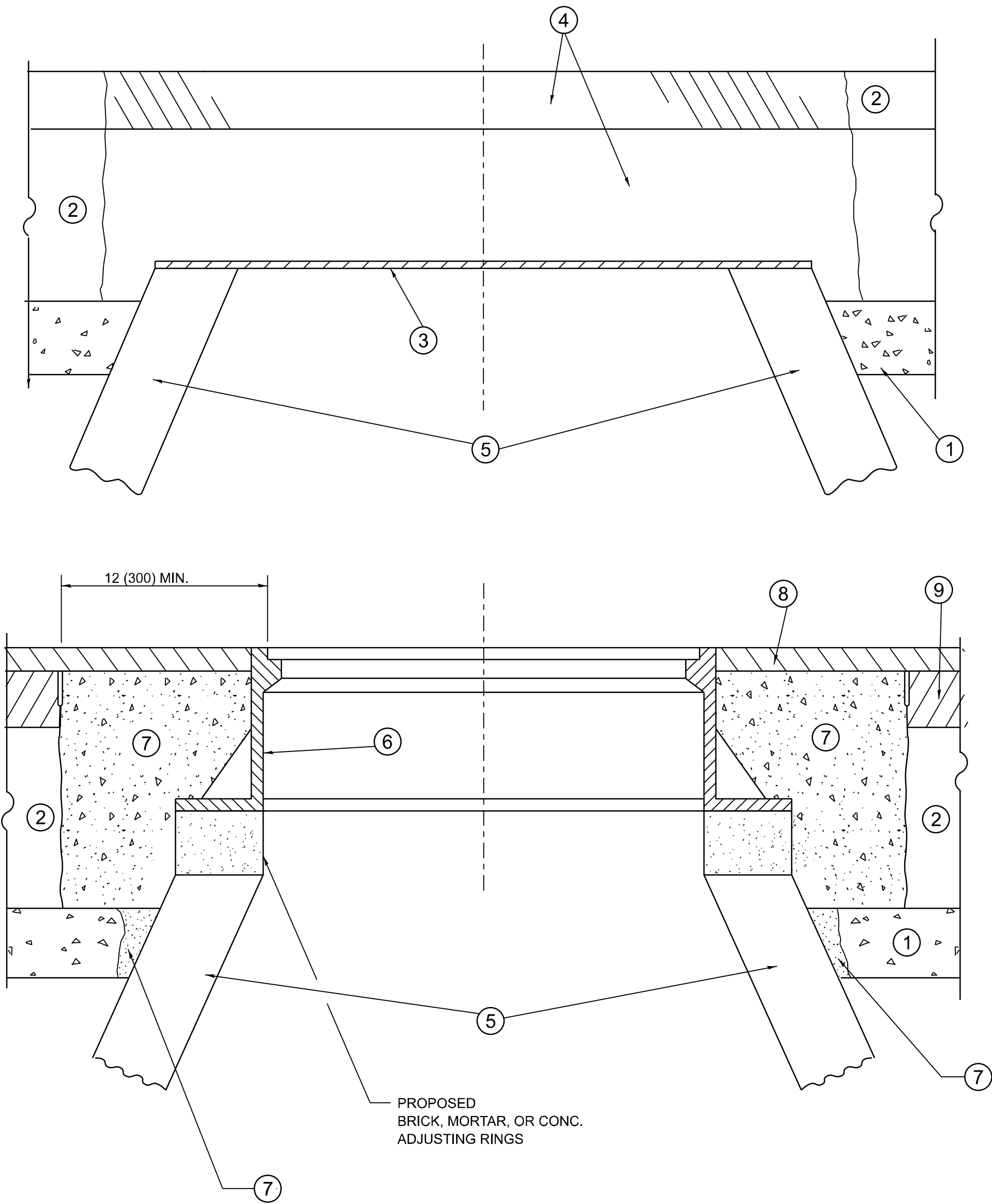
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN CURB RAMP DETAILS
JOHNSON RD (NW & SW CORNERS)

SCALE: SHEET 6 OF 6 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	41
CONTRACT NO. 80C62				
ILLINOIS FED. AID PROJECT				

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**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

NOTES

- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-2* CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

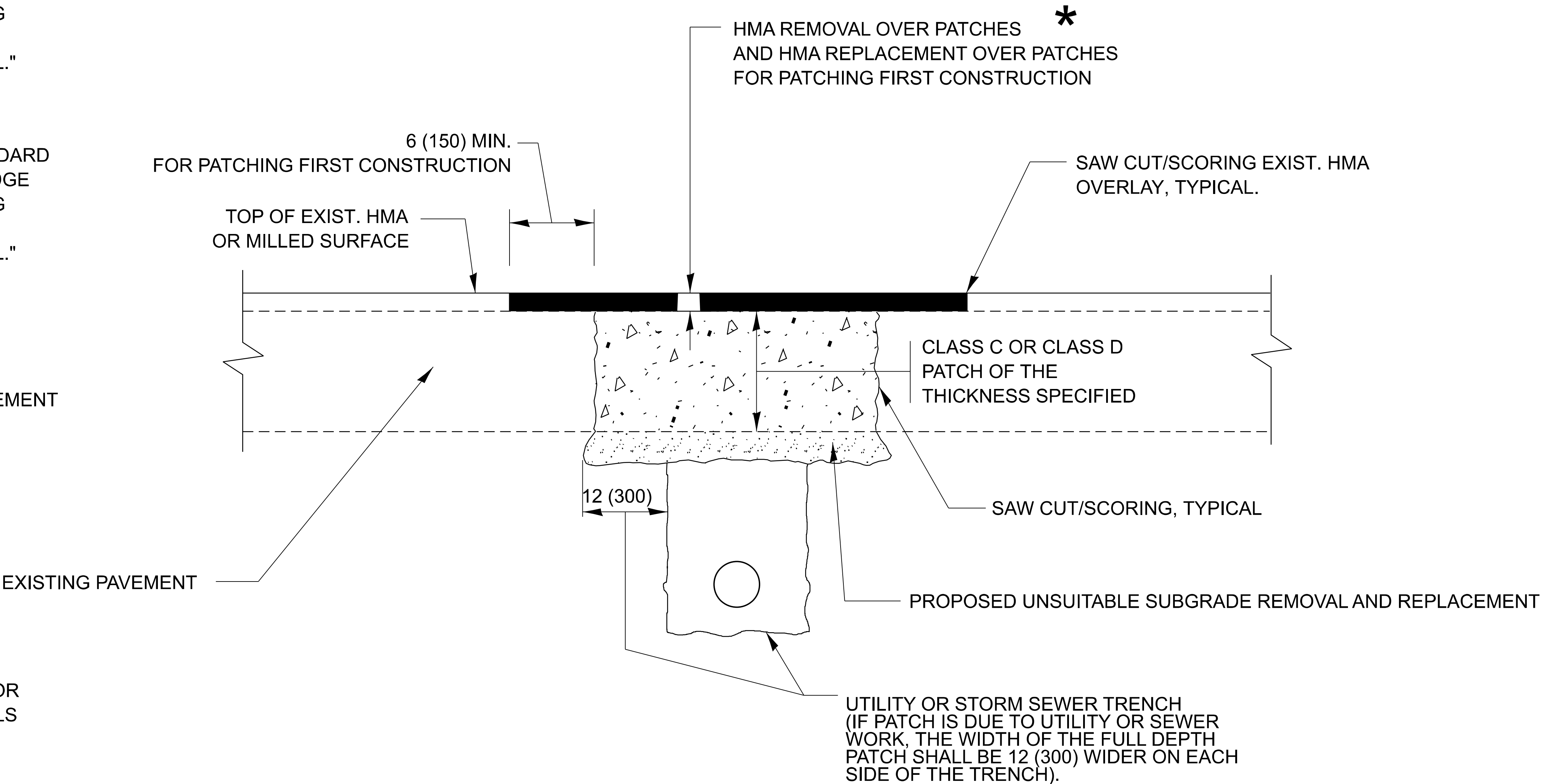
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		DRAWN -	REVISED - R. BORO 12-06-11					330	2025-2116-RS,SW	LAKE	61	42
		CHECKED -	REVISED - K. SMITH 11-18-22		BD600-03 (BD-08)			CONTRACT NO. 80C62				
	PLOT DATE = 8/14/2026	DATE - 10-25-94	REVISED - K. SMITH 09-15-23		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- 2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

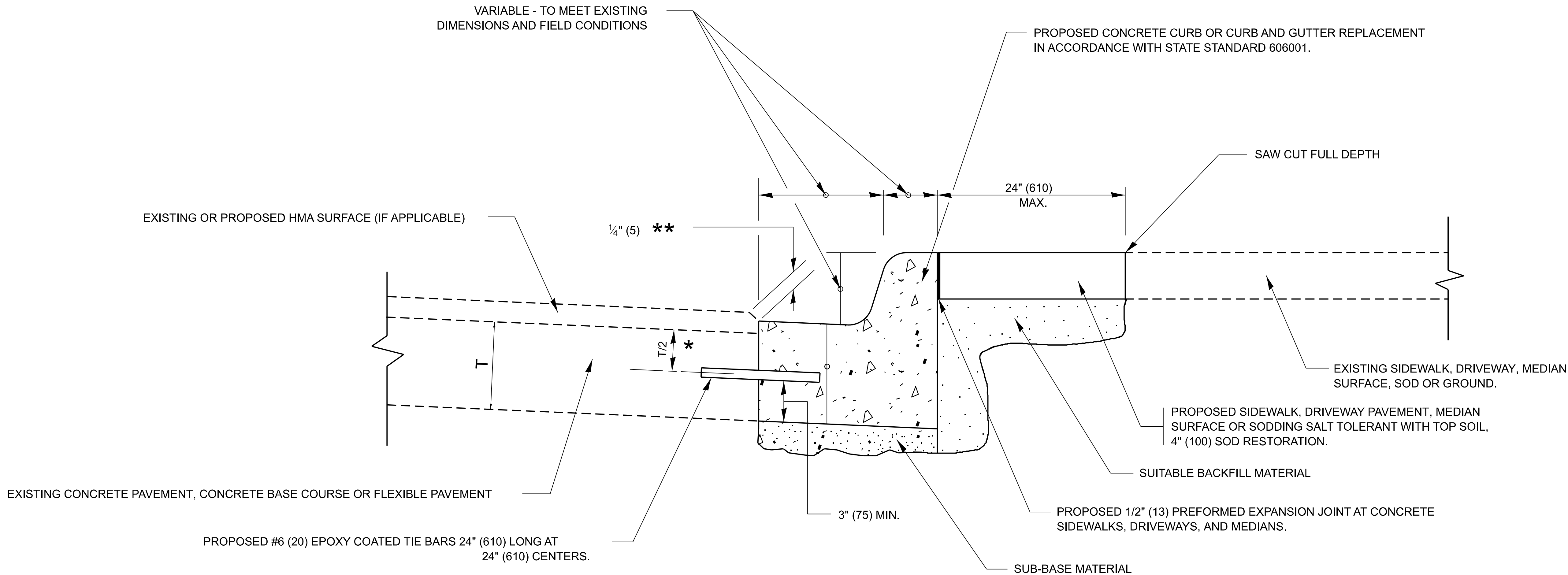
- 1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: BD-22 [Sheet]
FILE NAME: c:\pav_work\pavitch\illinois.gov_merit.jose@illinois.gov\1166031D113826-shf-DistStd.dgn

	USER NAME	= merin,jose	DESIGNED	-	R. SHAH	REVISED	-	R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT						F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN	-		REVISED	-	R. BORO 09-04-07		330	2025-2116-RS,SW	LAKE	61	43						
			CHECKED	-		REVISED	-	K. ENG 10-27-08		BD400-04 (BD-22)		CONTRACT NO. 80C62								
	PLOT DATE	= 8/14/2026	DATE	-	10-25-94	REVISED	-	K. SMITH 11-18-22		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT			

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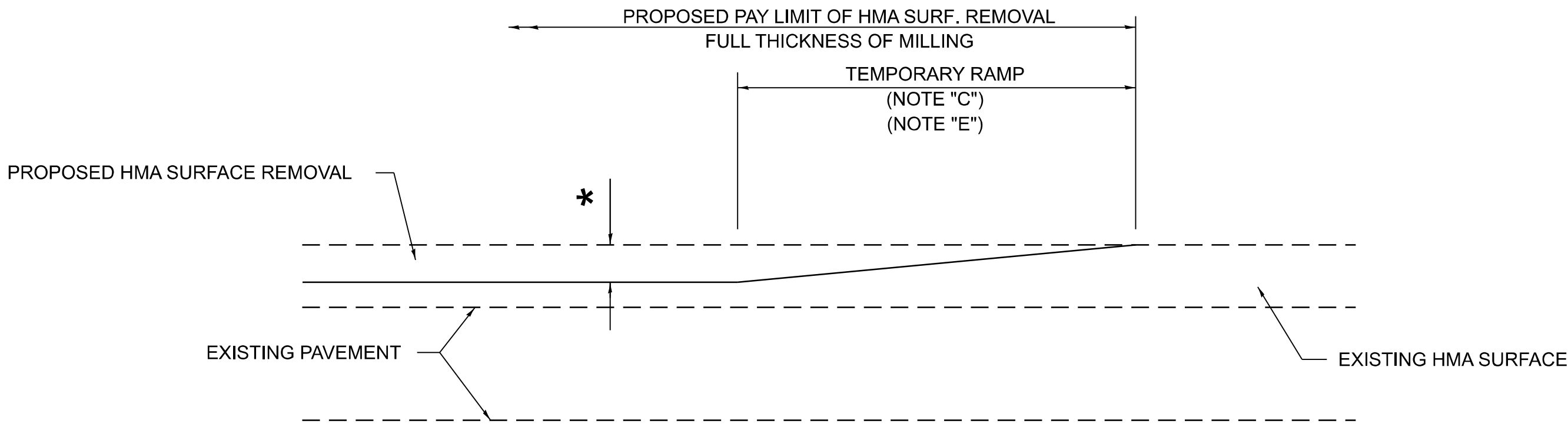
* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

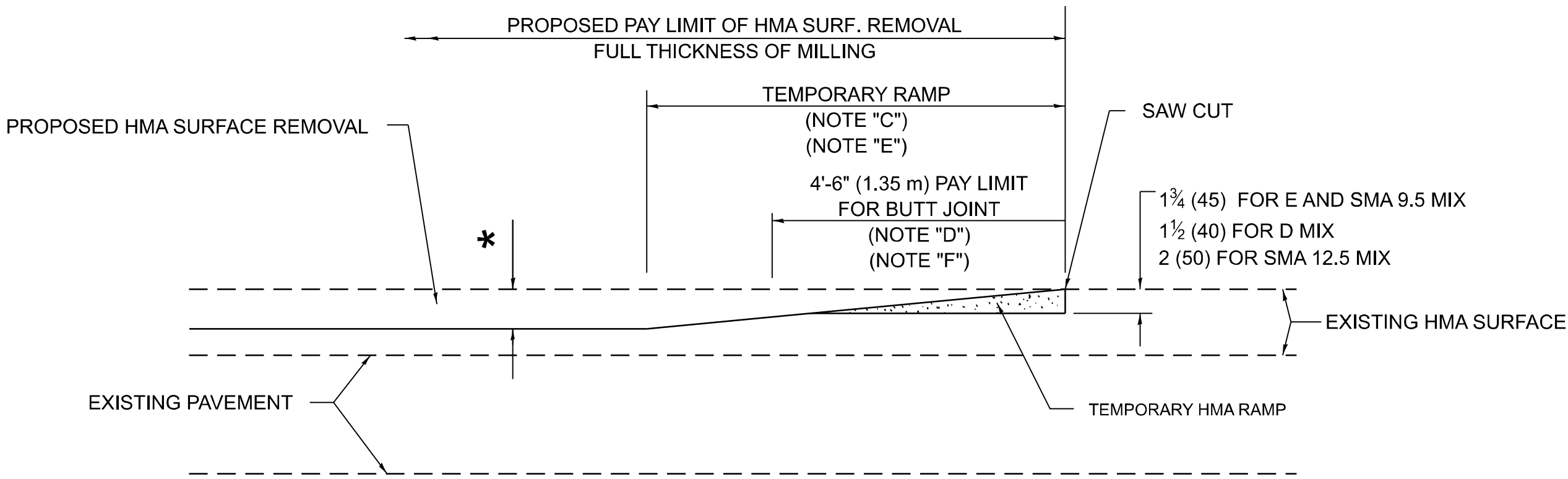
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

	USER NAME = merin,jose	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN -	REVISED - M. GOMEZ 01-22-01							330	2025-2116-RS,SW	LAKE	61	44			
		CHECKED -	REVISED - R. BORO 12-15-09							BD600-06 (BD-24)					CONTRACT NO. 80C62		
	PLOT DATE = 8/14/2026	DATE - 03-11-94	REVISED - K. SMITH 07-11-19							SCALE: NONE		SHEET 1	OF 1	SHEETS	STA.	TO STA.	



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

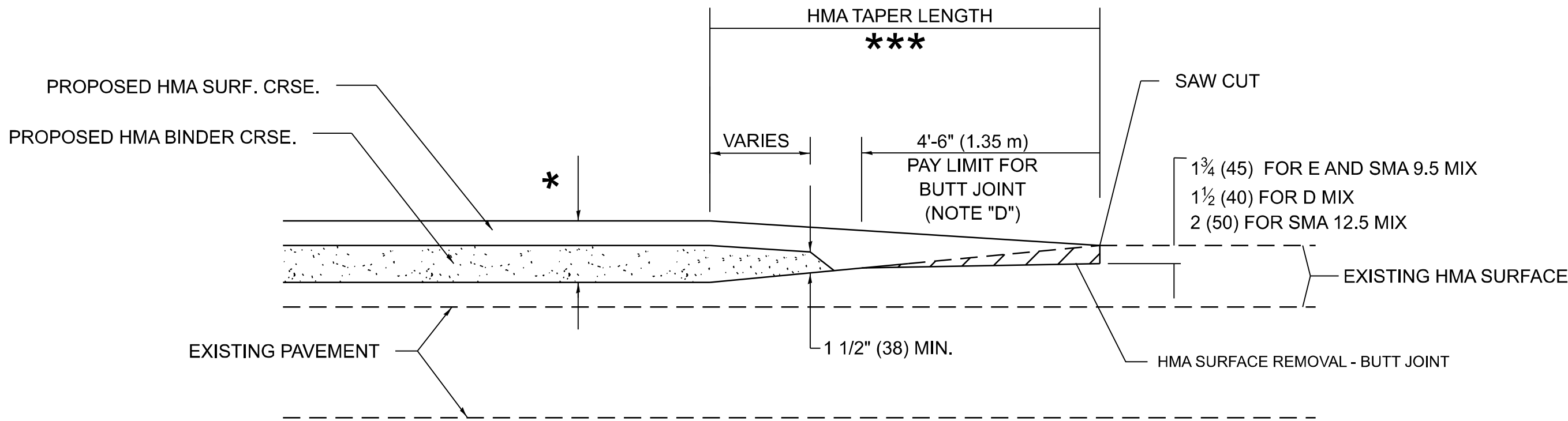
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

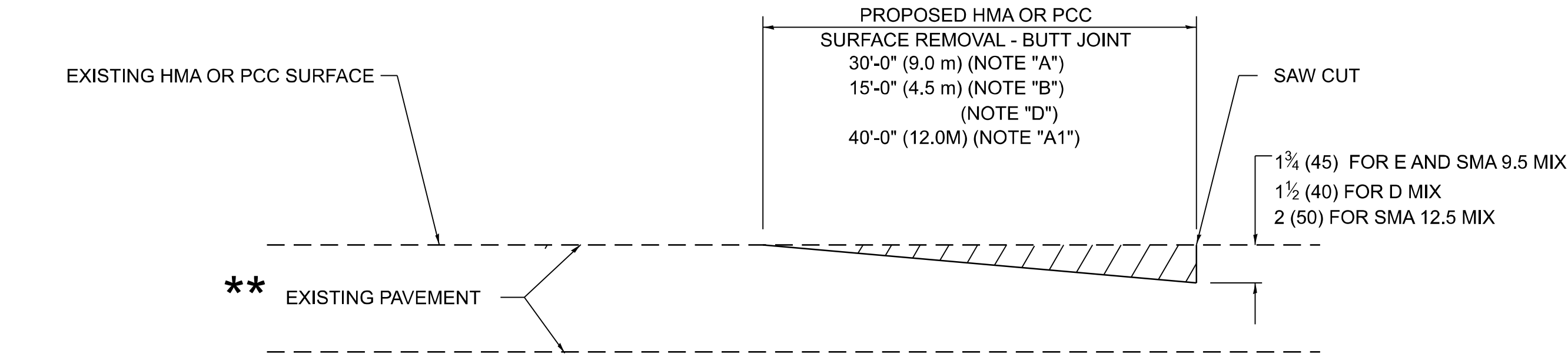
OPTION 2

TYPICAL TEMPORARY RAMP

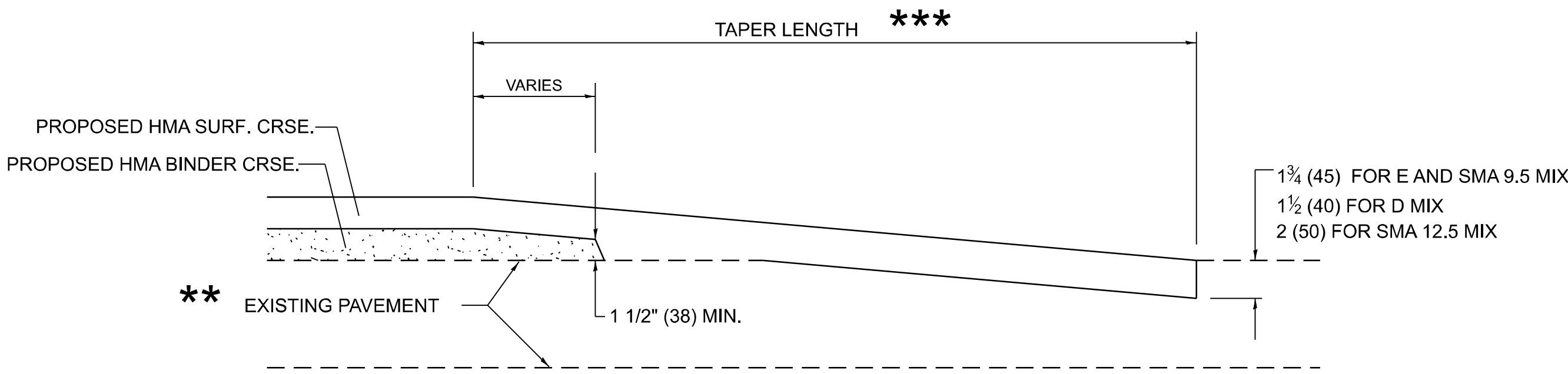


**BUTT JOINT AND
HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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USER NAME	= merlin.jose	DESIGNED	-	M. DE YONG	REVISED	-	A. ABBAS 03-21-97
		DRAWN	-		REVISED	-	M. GOMEZ 04-06-01
		CHECKED	-		REVISED	-	R. BORO 01-01-07
PLOT DATE	= 8/14/2026	DATE	-	06-13-90	REVISED	-	K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	45
BD400-05 BD-32		CONTRACT NO. 80C62		
		ILLINOIS	FED. AID PROJECT	

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USER NAME	= merin,jose	DESIGNED	-	L.H.A.	REVISED	-	T. RAMMACHER 01-06-00
		DRAWN	-		REVISED	-	A. SCHUETZE 07-01-13
		CHECKED	-		REVISED	-	A. SCHUETZE 09-15-06
PLOT DATE	= 8/14/2026	DATE	-	06-89	REVISED	-	D. SENDERAK 05-03-24

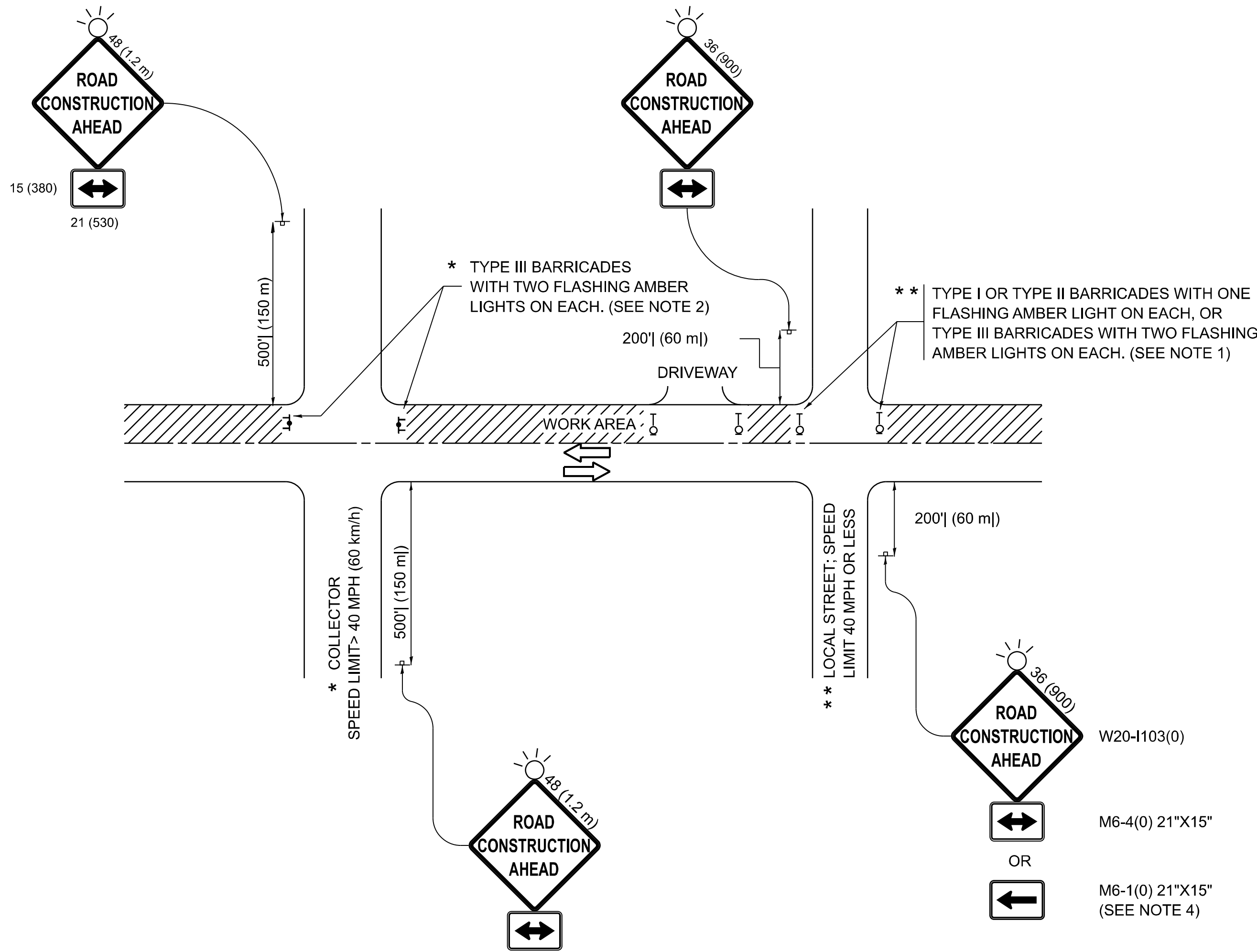
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: SHEET OF SHEETS STA. TO STA.

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

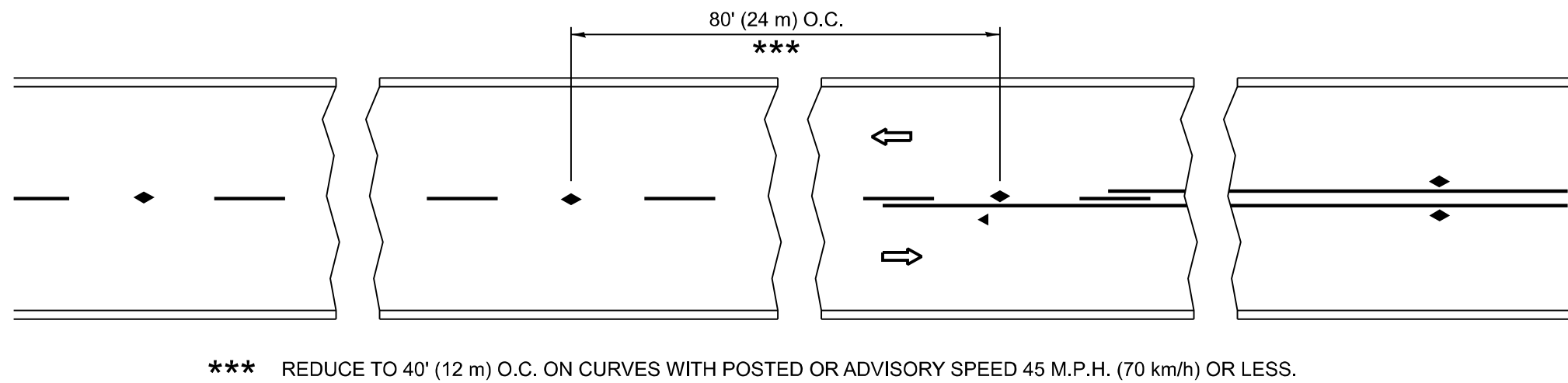
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		ILLINOIS	FED. AID PROJECT	



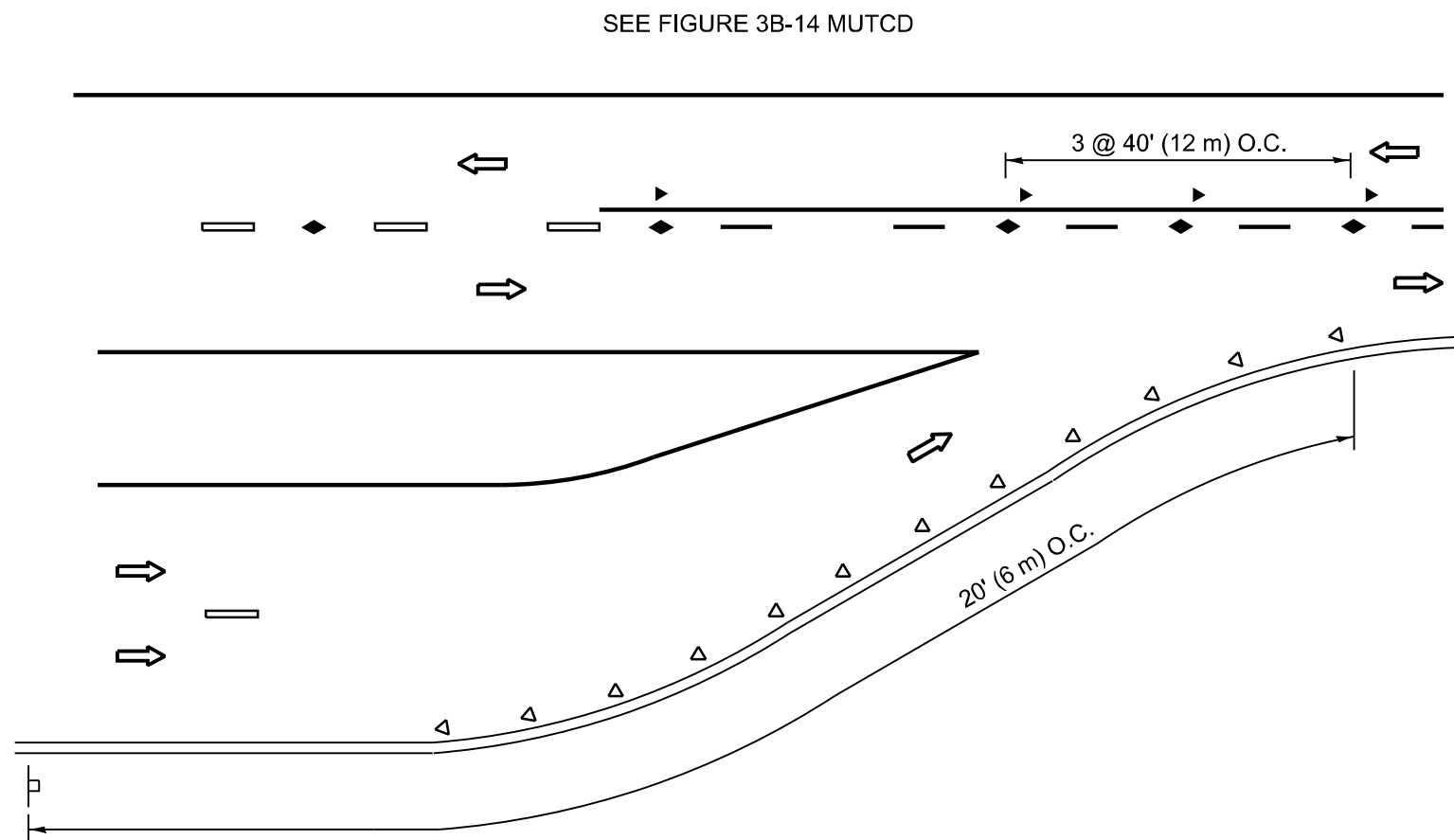
NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

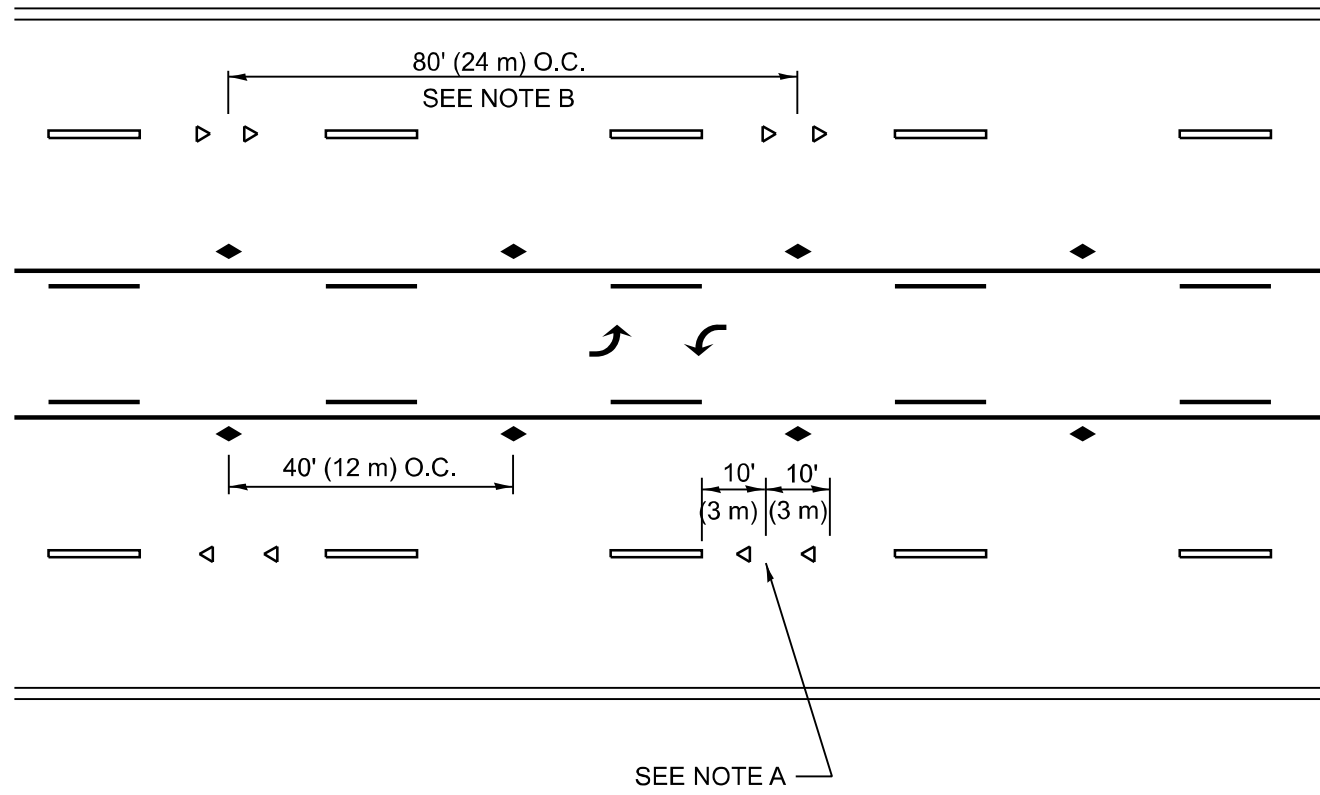
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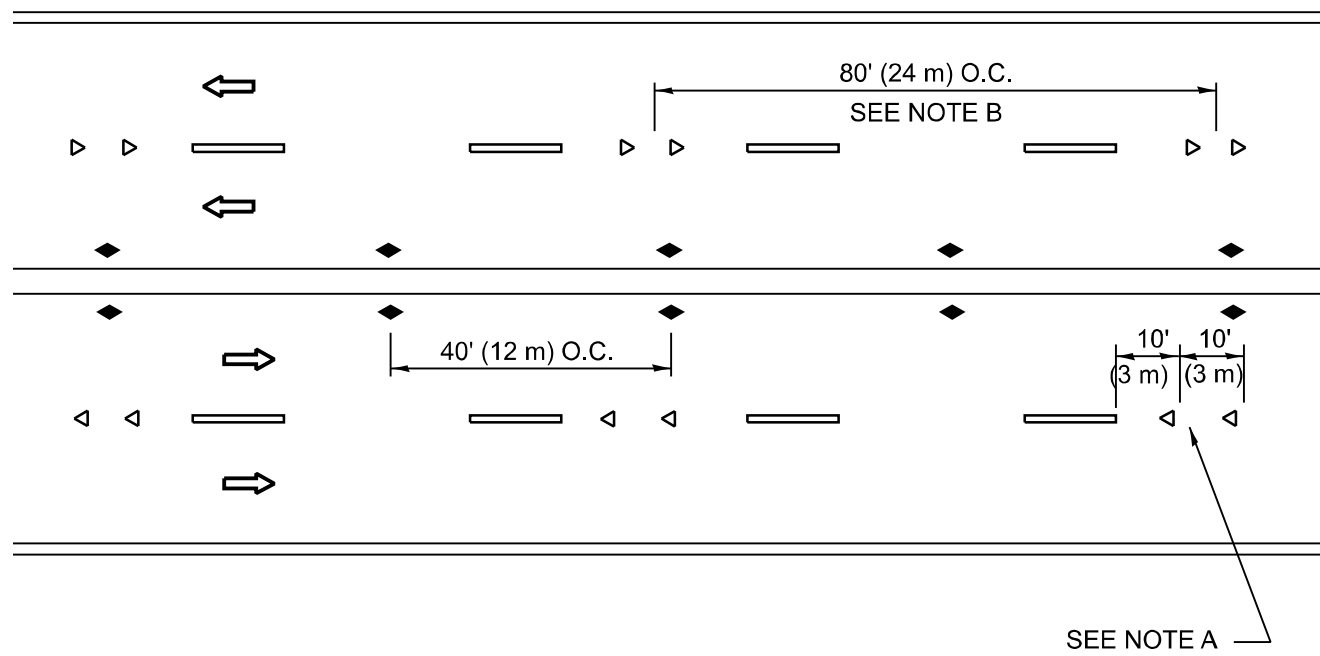
TWO-LANE/TWO-WAY



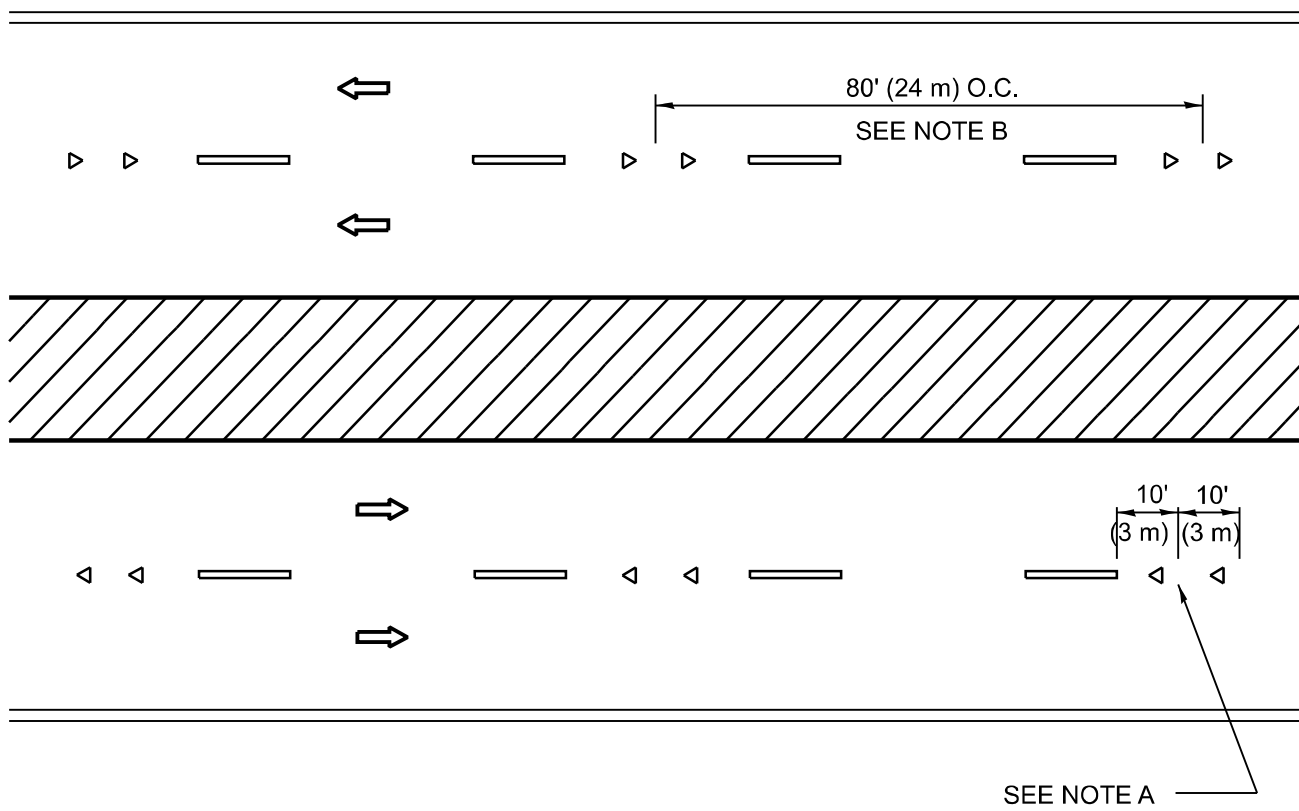
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
 - MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
 - MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
 - MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

LANE MARKER NOTES

DESIGN NOTES

- DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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

USER NAME	* merit.jose	DESIGNED	-	REVISED	- T. RAMMACHER 03-12-99
		DRAWN	-	REVISED	- T. RAMMACHER 01-06-00
		CHECKED	-	REVISED	- C. JUCIUS 09-09-09
PLOT DATE	= 8/14/2026	DATE	-	REVISED	- C. JUCIUS 07-01-13

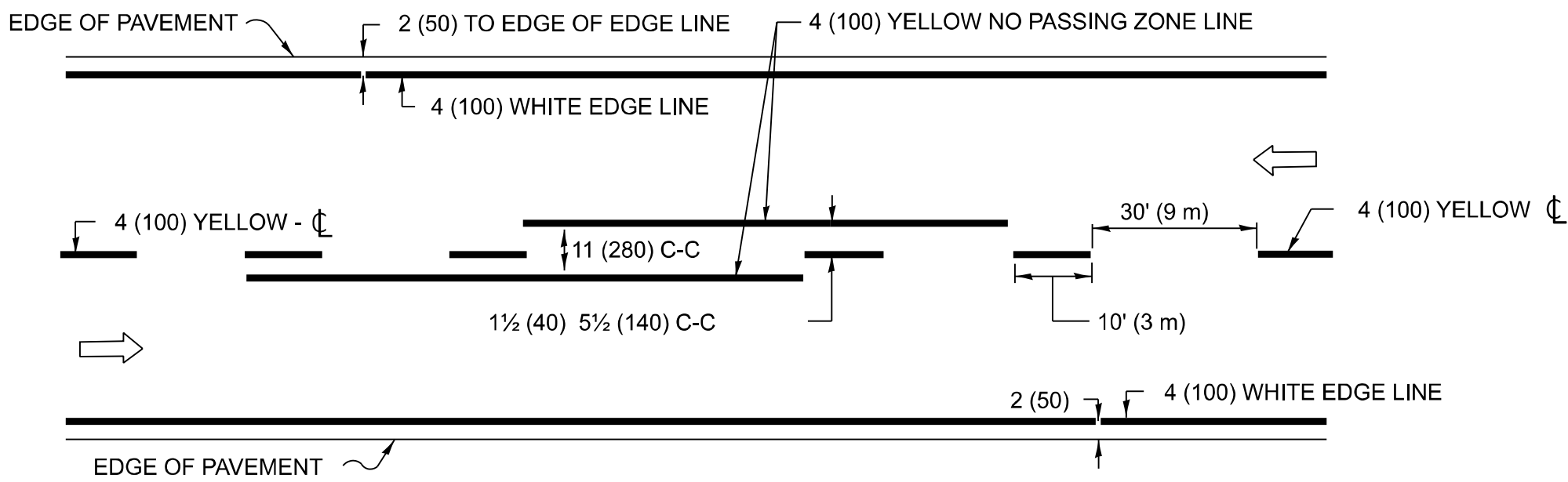
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

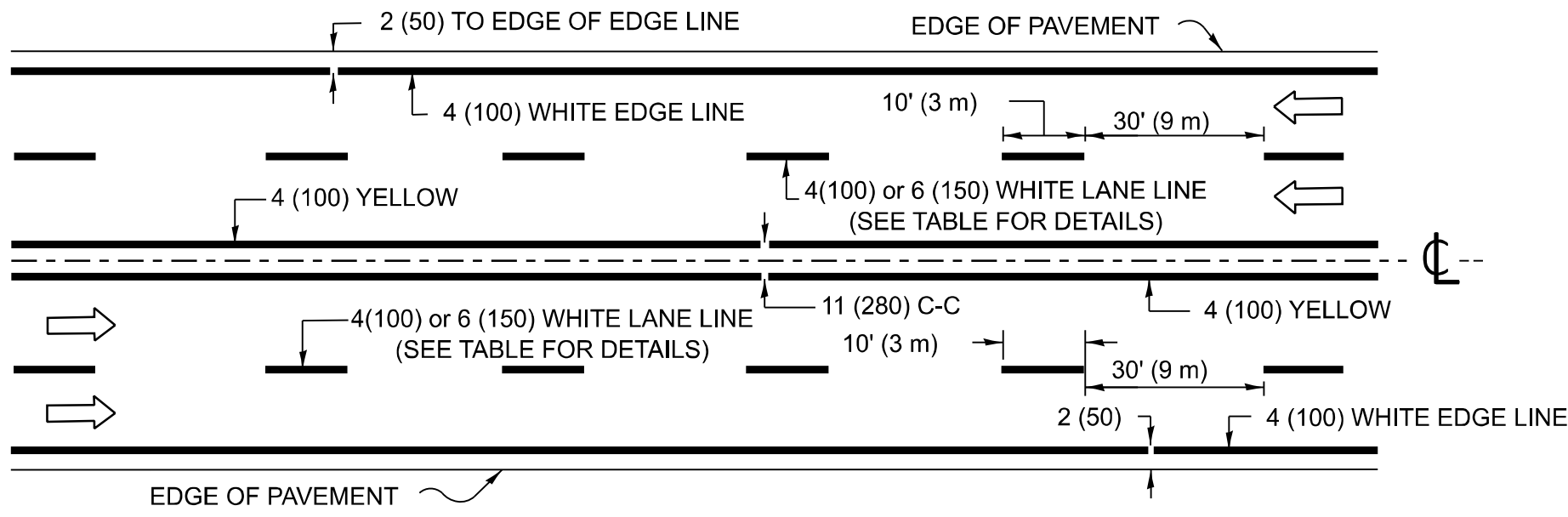
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11		CONTRACT NO. 80C62		
		ILLINOIS	FED. AID PROJECT	

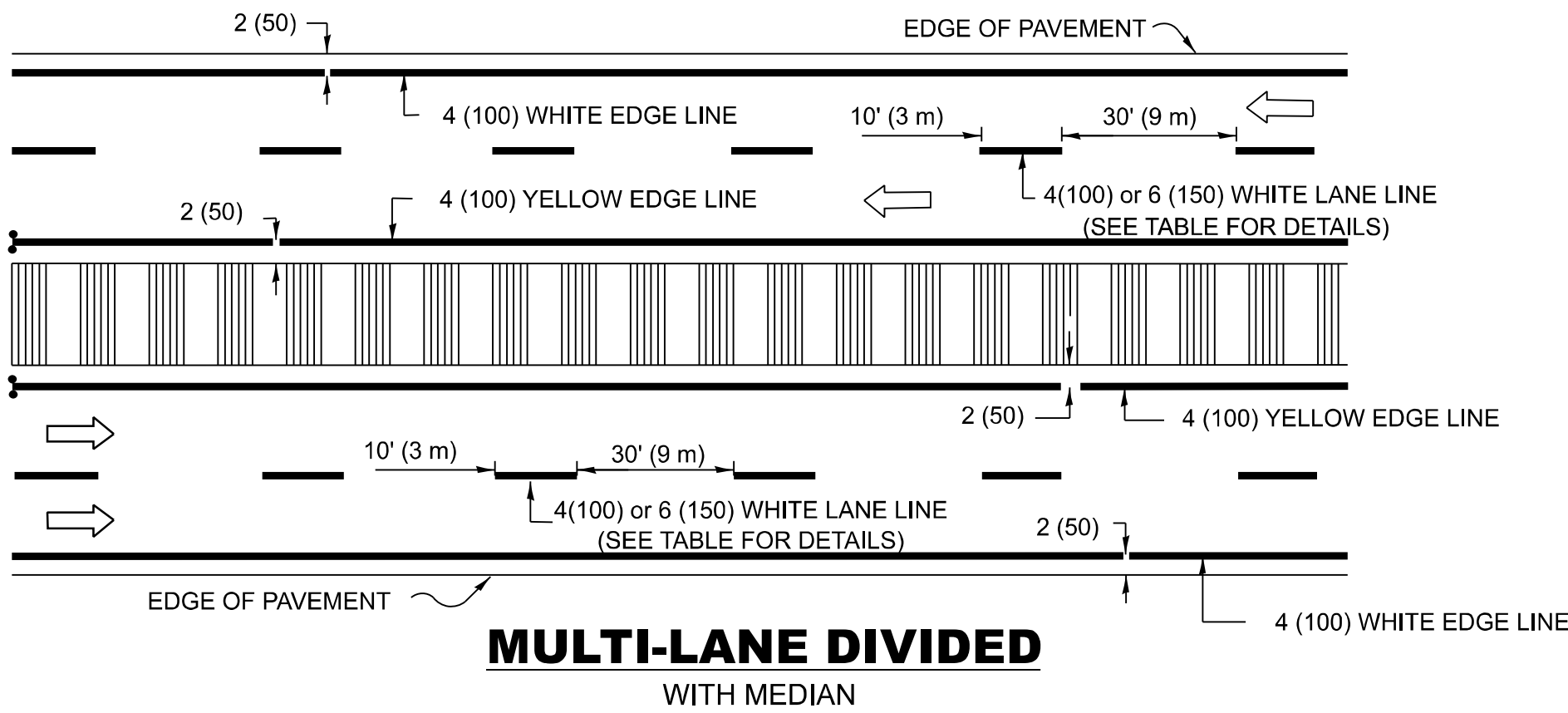
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2-LANE ROADWAY

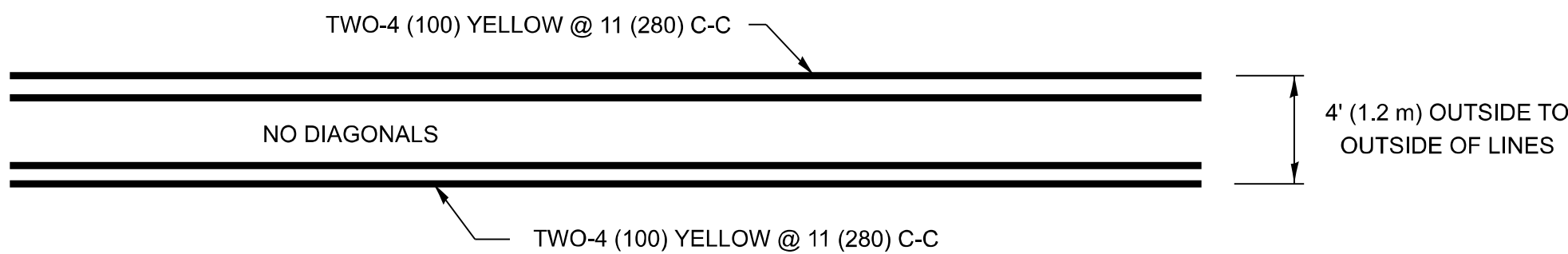


MULTI-LANE UNDIVIDED

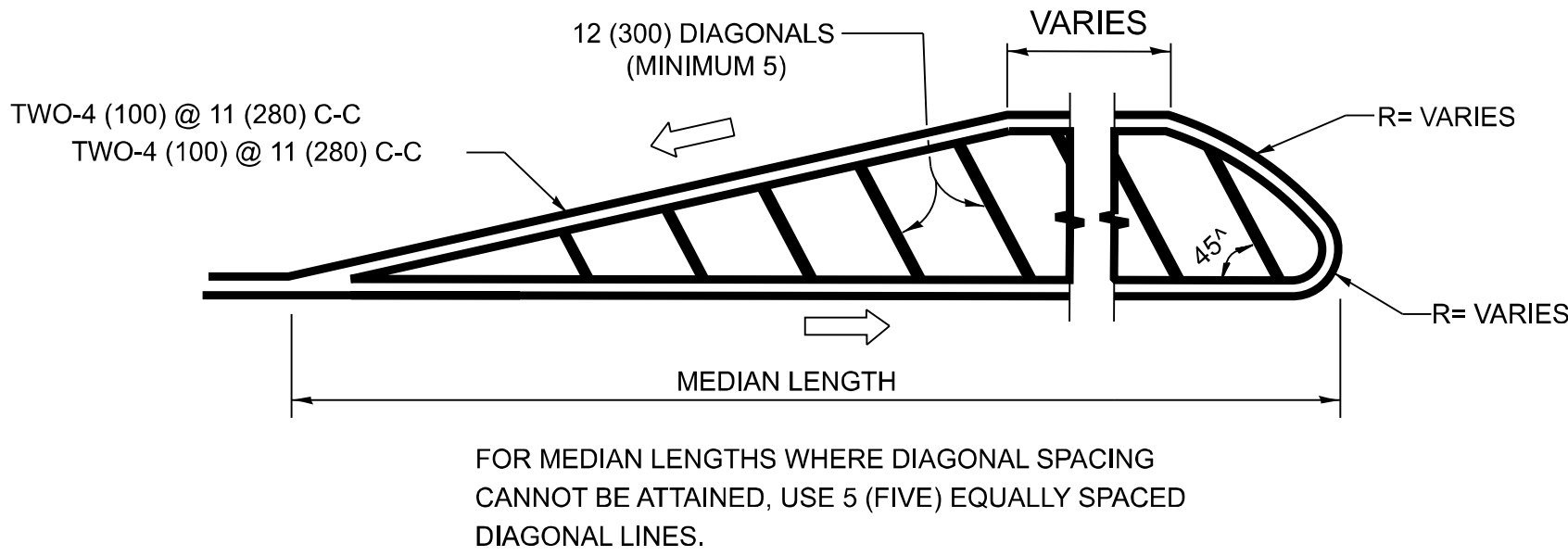


MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

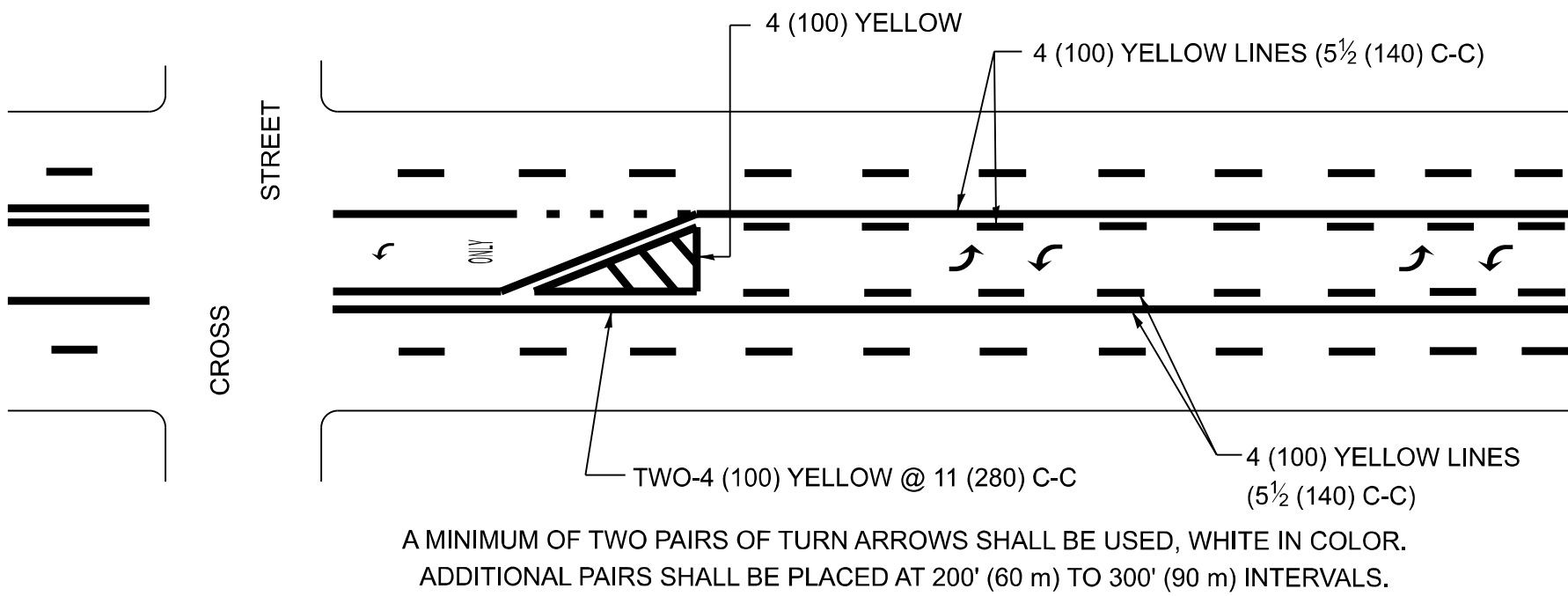


4' (1.2 m) WIDE MEDIANS ONLY



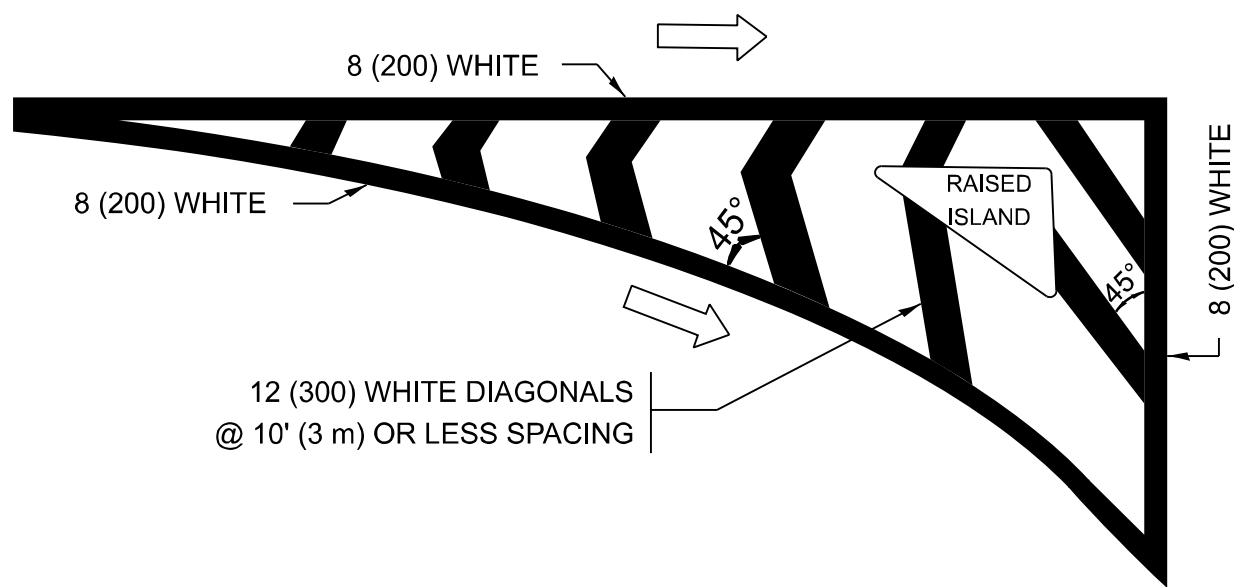
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

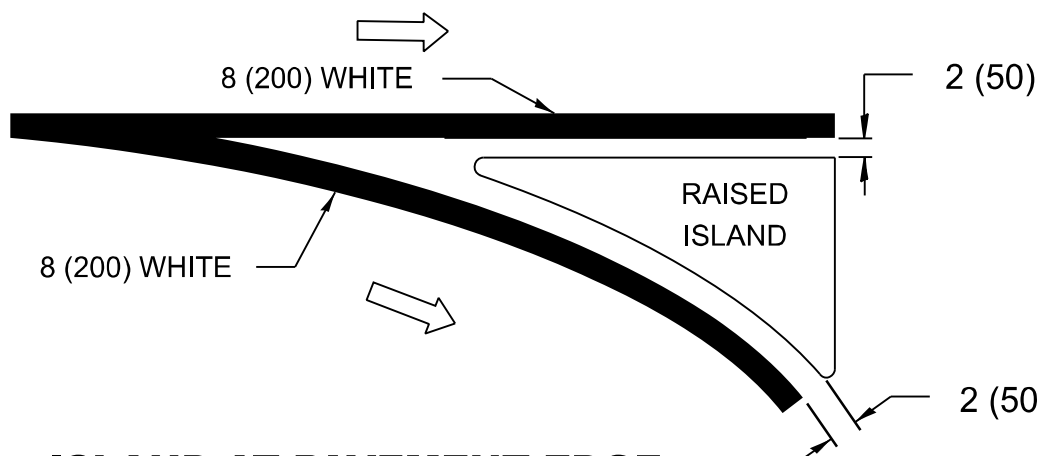


MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

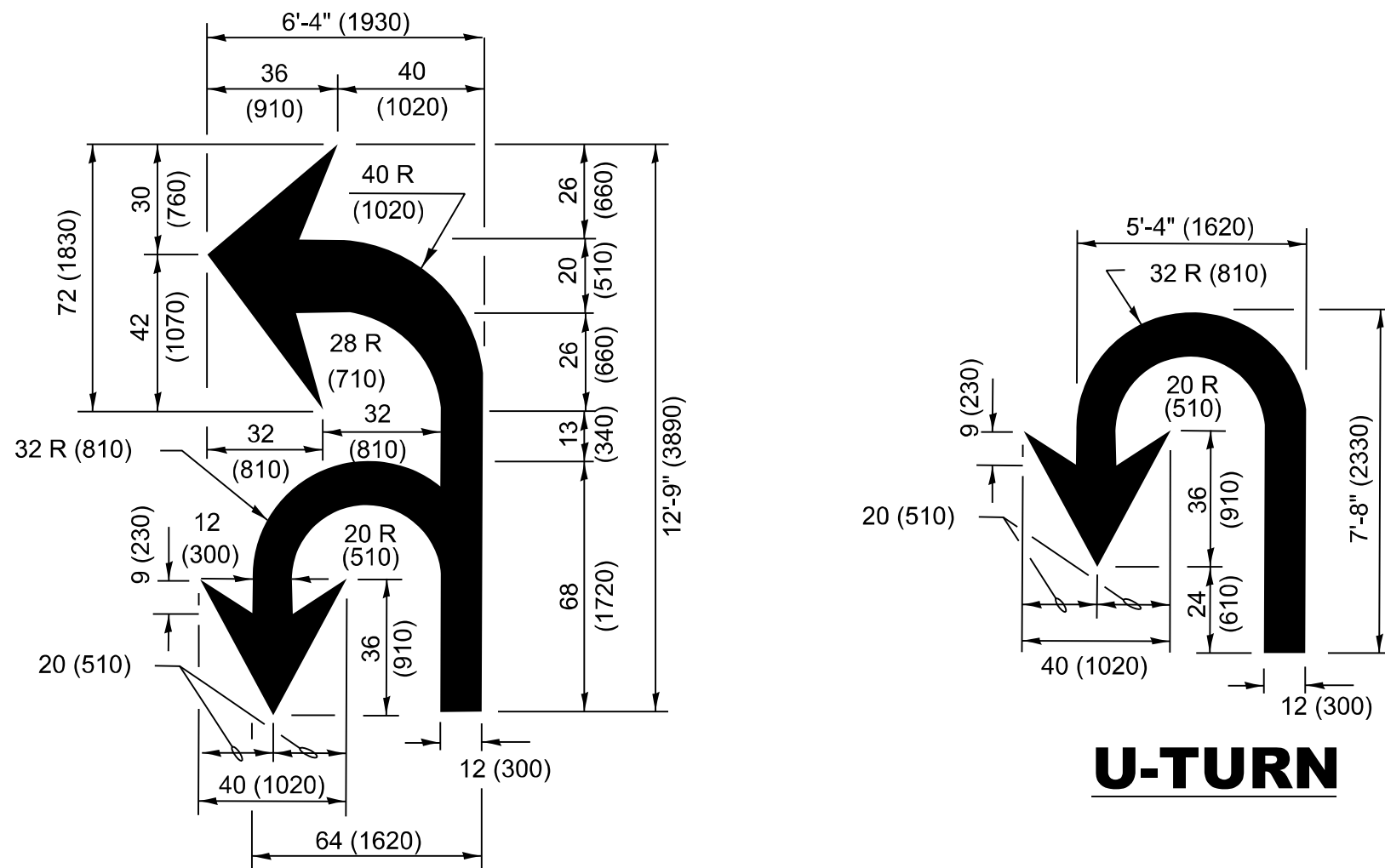


ISLAND OFFSET FROM PAVEMENT EDGE

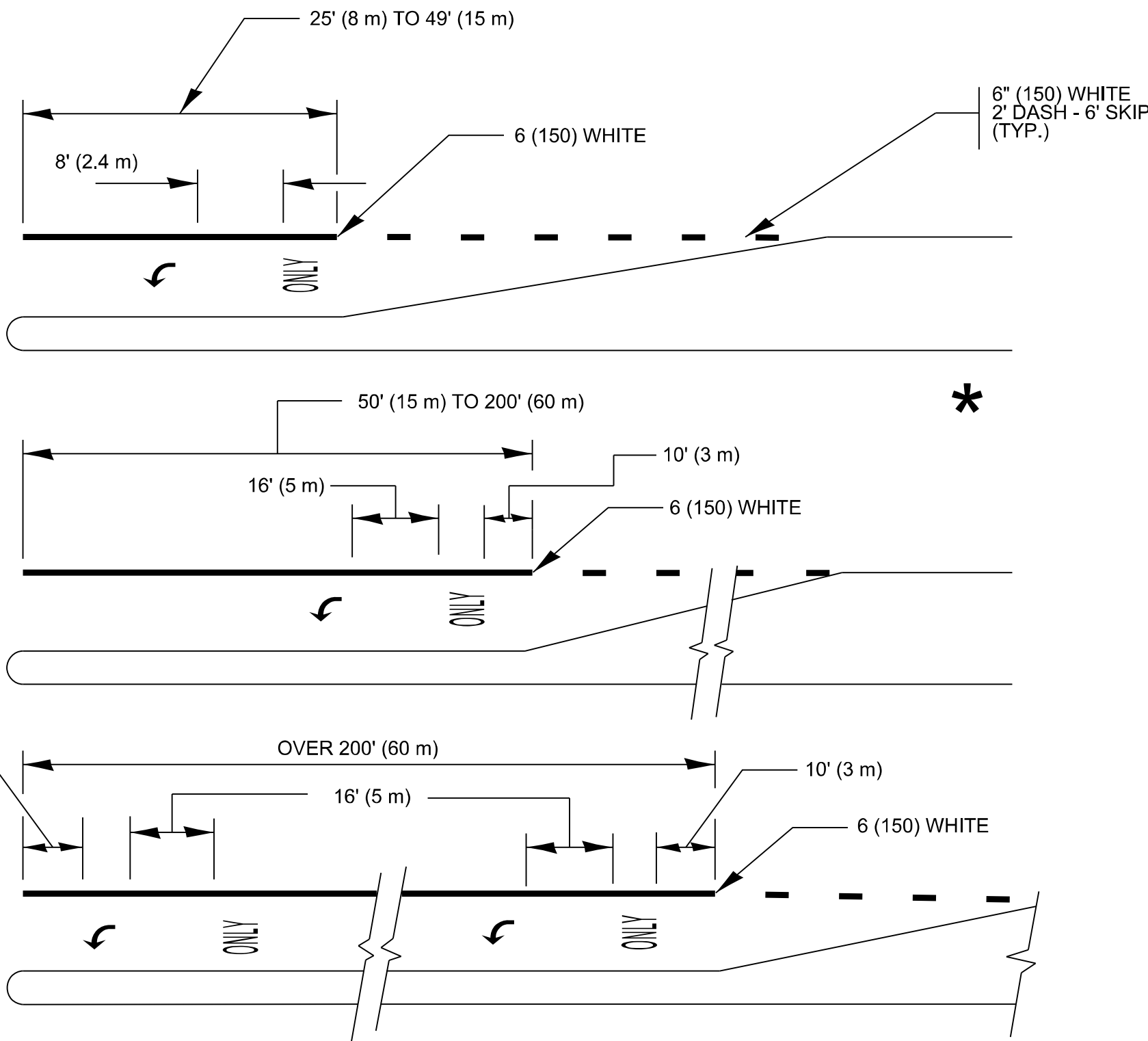


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE MARKING

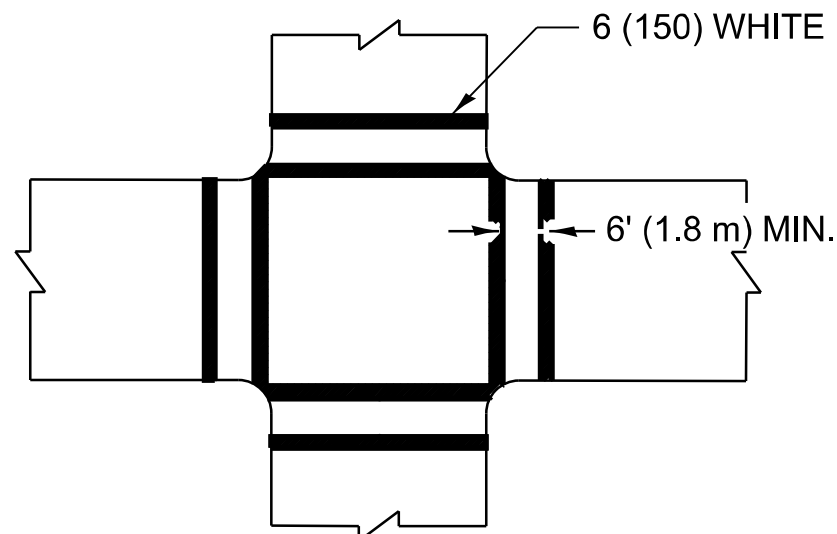
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

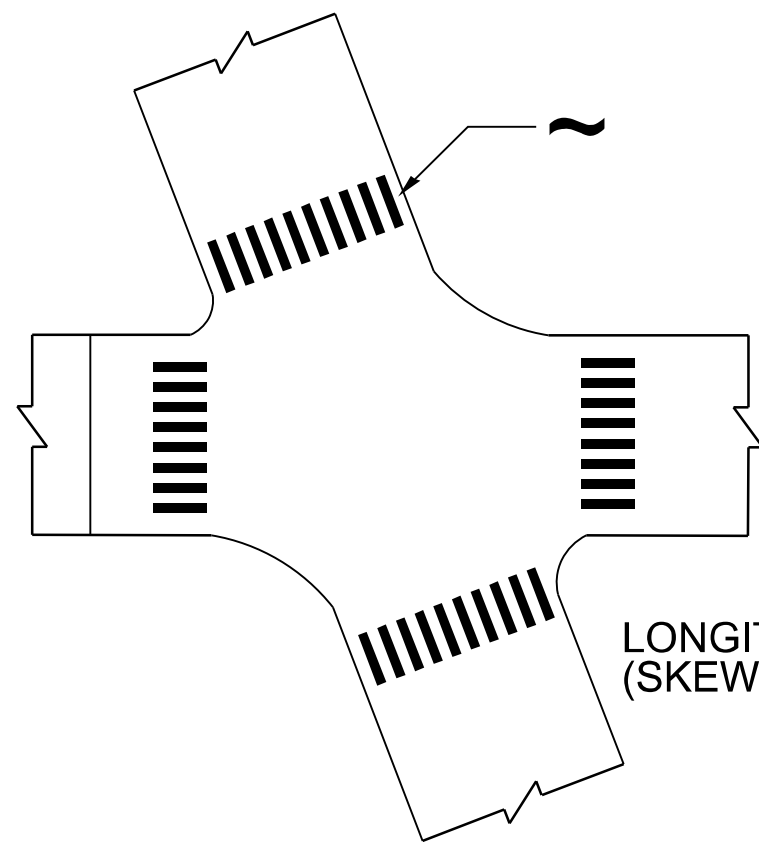
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS		FED. AID PROJECT		

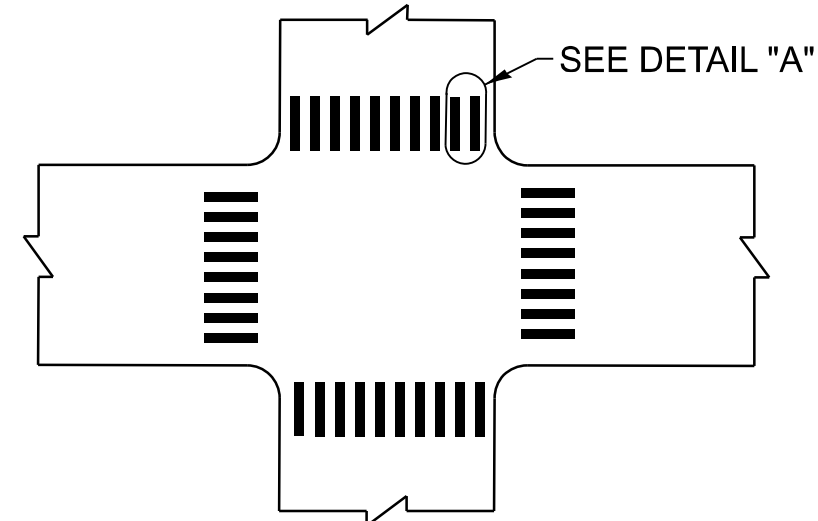
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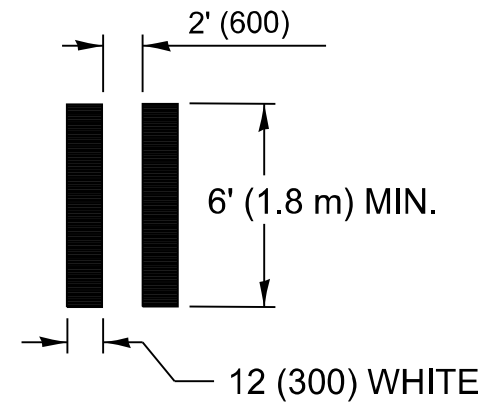
TRANSVERSE CROSSWALK



LONGITUDINAL CROSSWALK
(SKEWED INTERSECTION)



LONGITUDINAL CROSSWALK

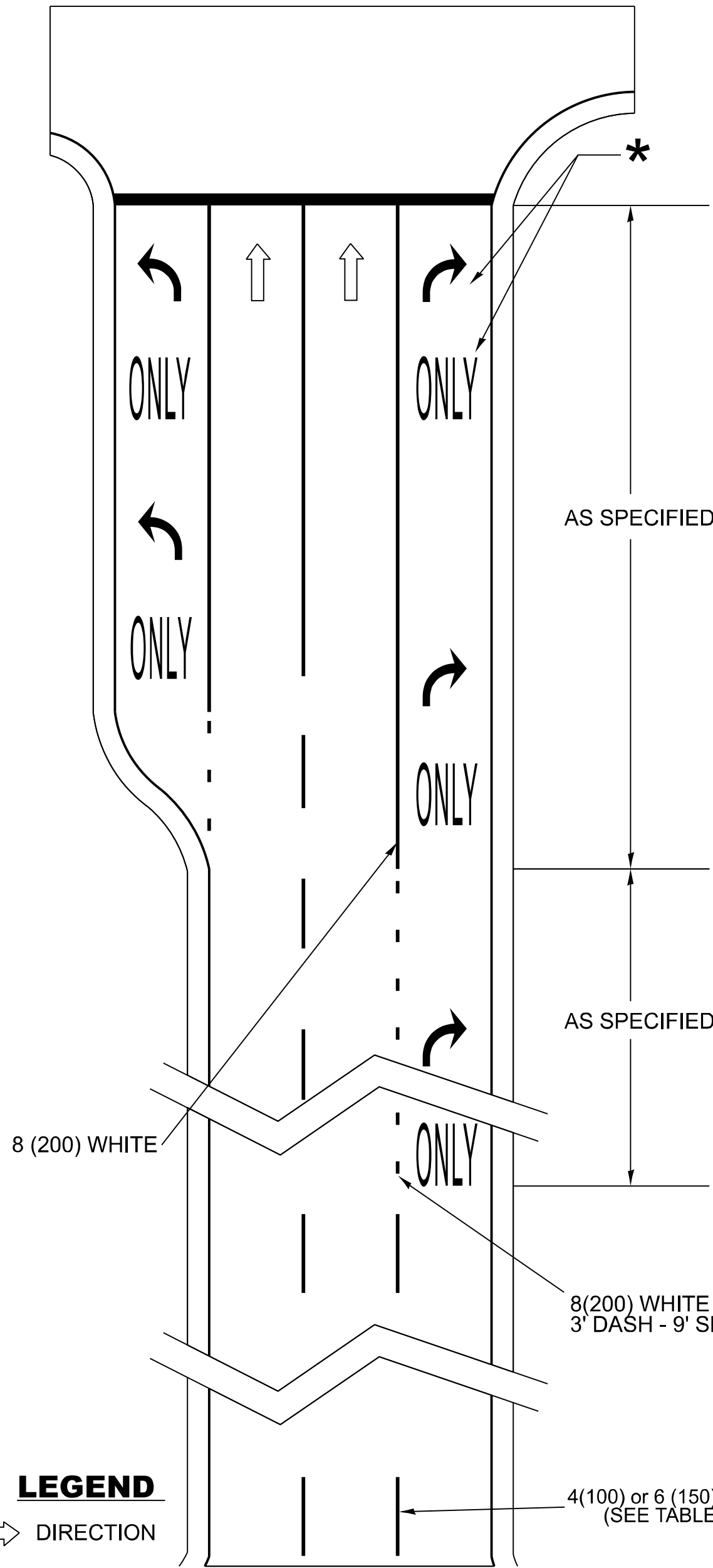


DETAIL "A"

TYPICAL CROSSWALK MARKING

MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

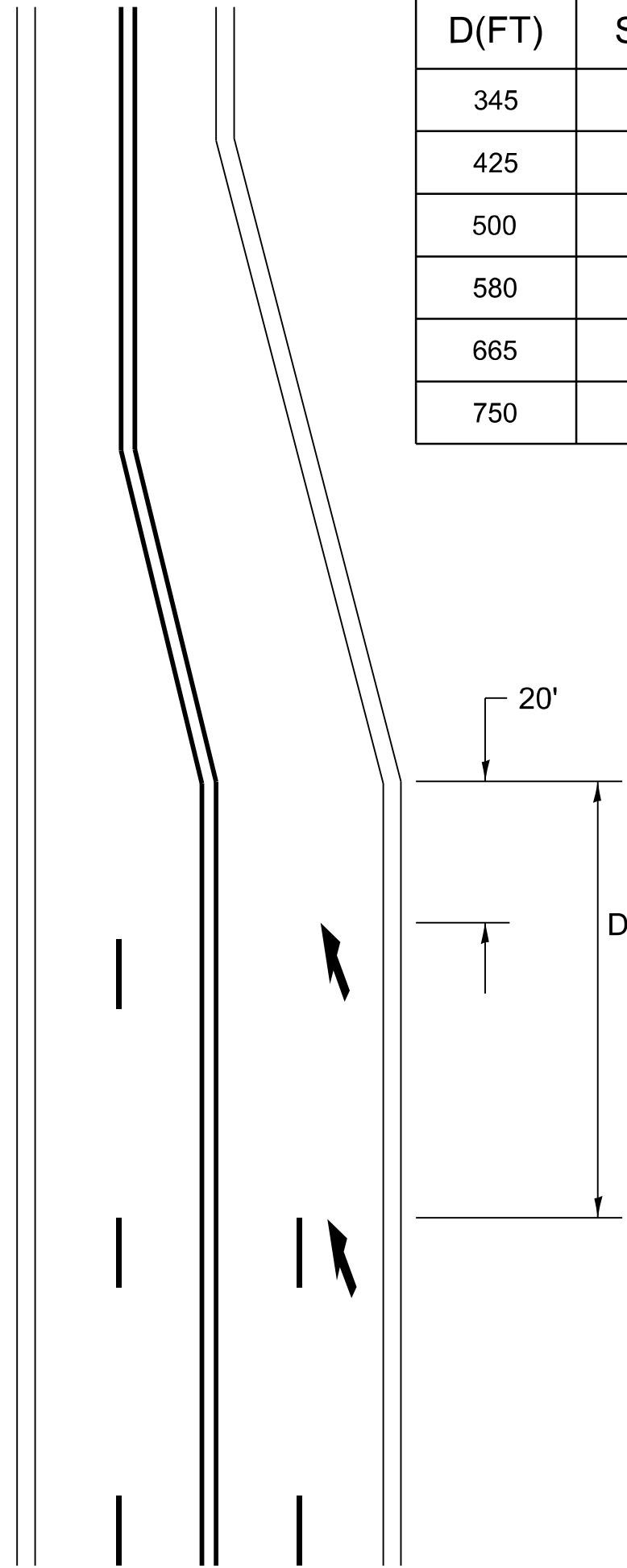
~ THE INDIVIDUAL LONGITUDINAL ELEMENTS OF A LONGITUDINAL BAR CROSSWALK SHOULD BE ANGLED SUCH THAT THEY ARE PARALLEL TO THE TRAVEL PATH OF APPROACHING TRAFFIC



ARTERIAL ROAD LANE-DROP MARKINGS

* FOLLOW TYPICAL TURN LANE MARKINGS FOR PLACEMENT AND SIZE DETAILS OF 'ARROW' AND 'ONLY' MARKINGS IN THE TURN LANE.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55



LANE REDUCTION TRANSITION

LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES FOR SPEED LIMIT <= 45 MPH LANE LINES FOR SPEED LIMIT > 45 MPH	4 (100) 6 (150)	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (TYPICAL FOR EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS, EXCEPT AT LANE-DROP MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (0.60m) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
TRANSVERSE CROSSWALK LONGITUDINAL BARS CROSSWALK	2 @ 6 (150) 12 (300) @ 90°	SOLID SOLID	WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART AND PARALLEL TO TRAFFIC FLOW SEE TYPICAL CROSSWALK MARKING DETAIL 'A'.
STOP LINES	24 (600)	SOLID	WHITE	PLACE MINIMUM 4' (1.2 m) IN ADVANCE OF CROSSWALK IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. NO MORE THAN 30' (9.1 m) OR LESS THAN 4' (1.2 m) FROM NEAREST EDGE OF INTERSECTING TRAVELED WAY.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001, TC 23 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF
ARTERIAL LANE-DROP MARKINGS DOTTED LINES FOR LANE-DROP TURN LANE MARKINGS	8 (200) 8 (200)	SKIP - DASH SOLID	WHITE WHITE	3' (0.91 m) LINE WITH 9' (2.74 m) SPACE

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

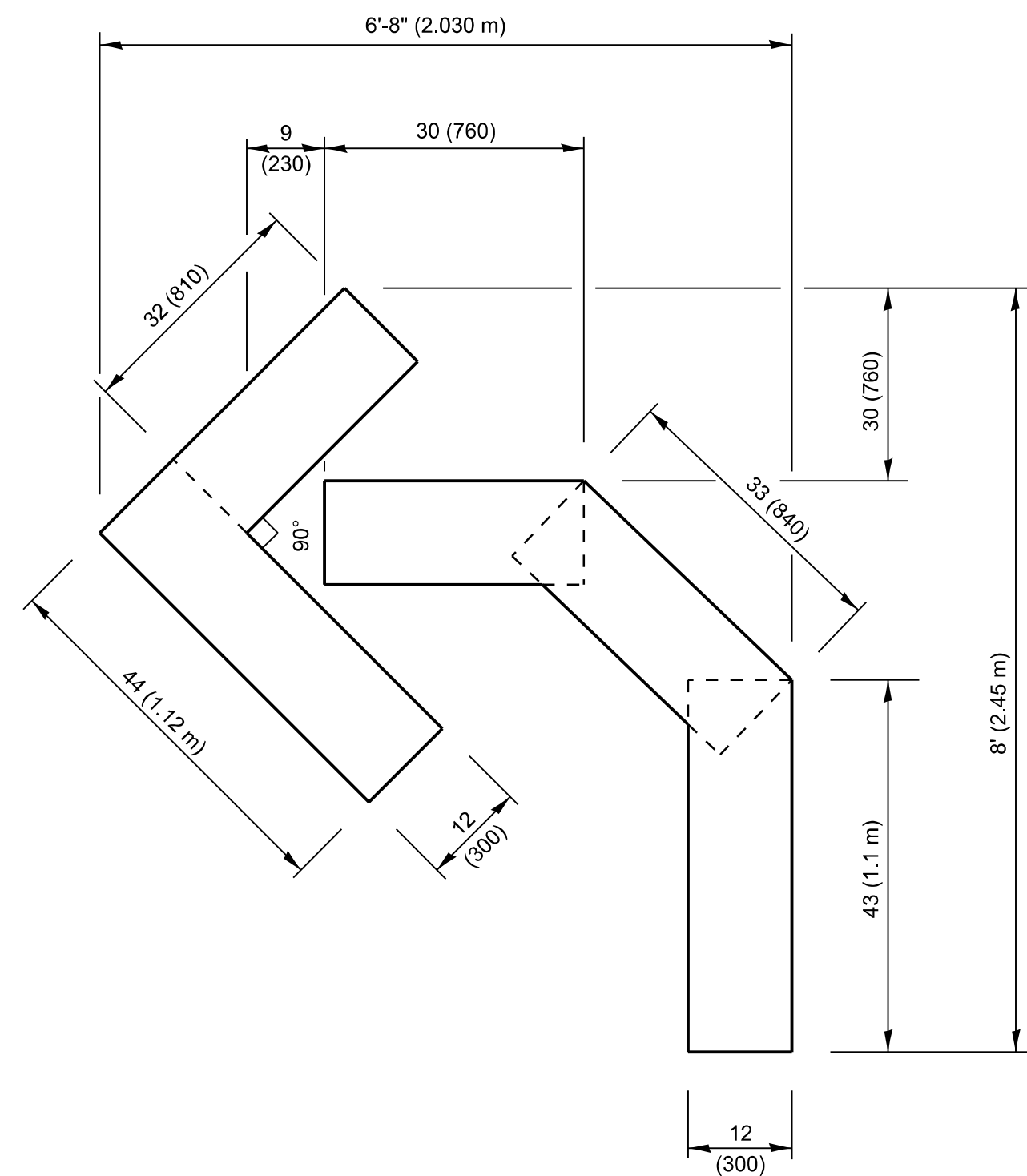
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DRAWN	-	DRAWN	-	REVISED	- C. JUCIUS 12-21-15
CHECKED	-	CHECKED	-	REVISED	- C. JUCIUS 04-12-16
PLOT DATE	= 8/14/2026	DATE	- 03-19-90	REVISED	- K. KANNAN-HOSADURGA 06-29-26

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

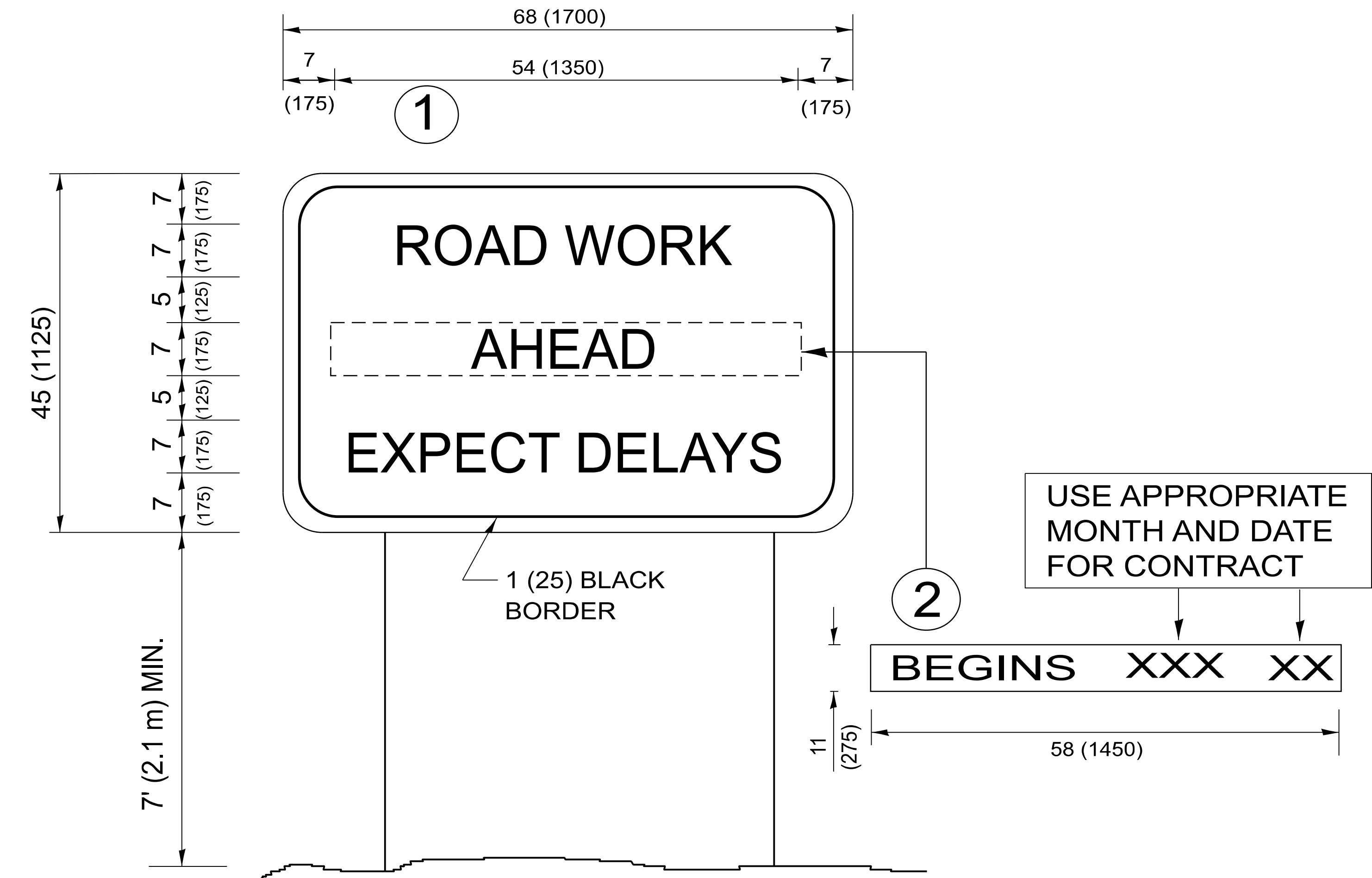
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2025-2116-RS,SW	LAKE	61	49
	TC-13B			CONTRACT NO. 80C62
		ILLINOIS	FED. AID PROJECT	



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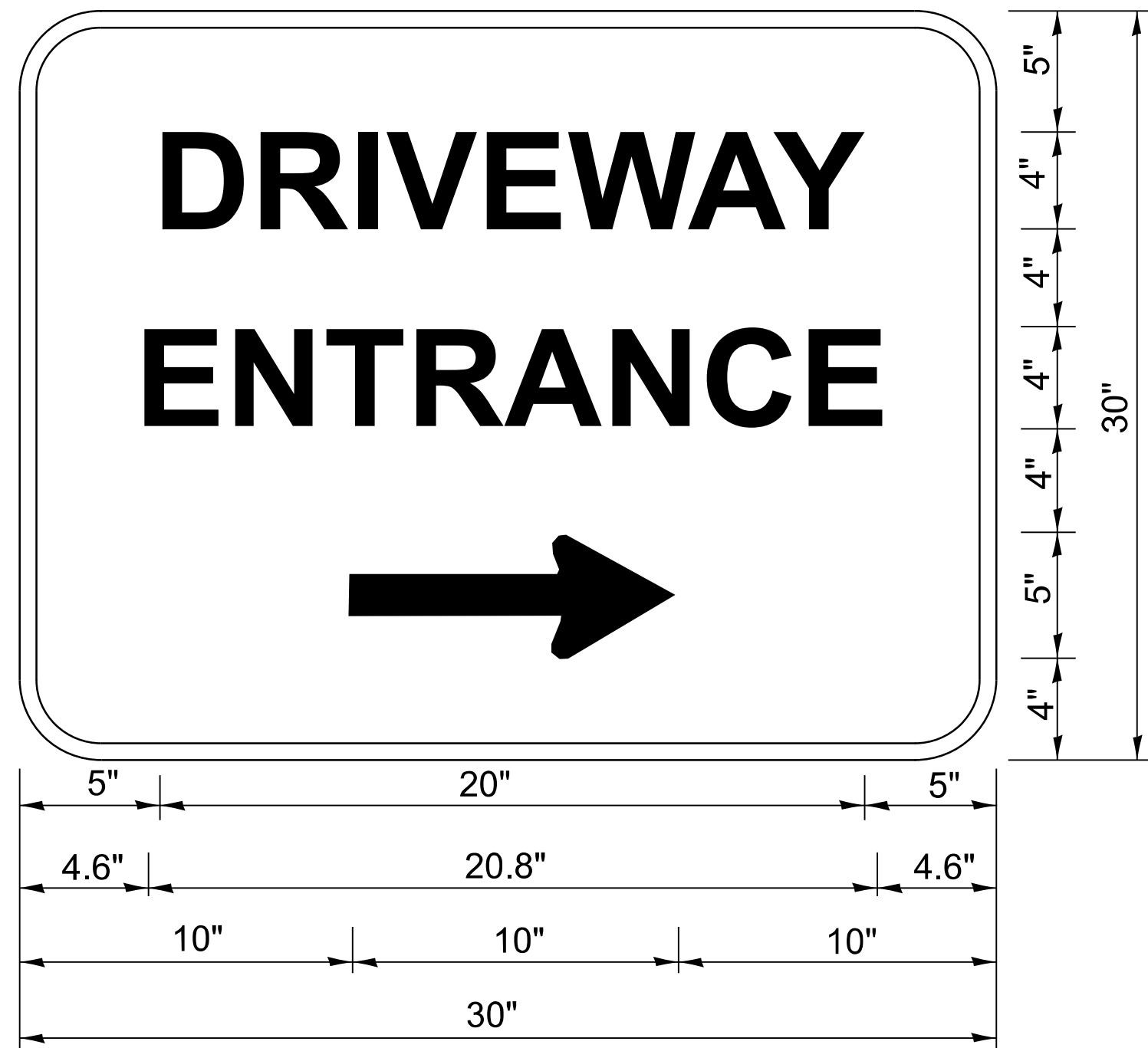


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

	USER NAME	= merin,jose	DESIGNED	-		REVISED	-	R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			DRAWN	-				REVISED						-	R. MIRS 12-11-97	330	2025-2116-RS,SW	LAKE	61	51
			CHECKED	-				REVISED						-	T. RAMMACHER 02-02-99	TC-22		CONTRACT NO. 80C62		
	PLOT DATE	= 8/14/2026	DATE	-		REVISED	-	C. JUCIUS 01-31-07						ILLINOIS FED. AID PROJECT						
	SCALE: NONE			SHEET 1			OF 1 SHEETS												STA.	



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

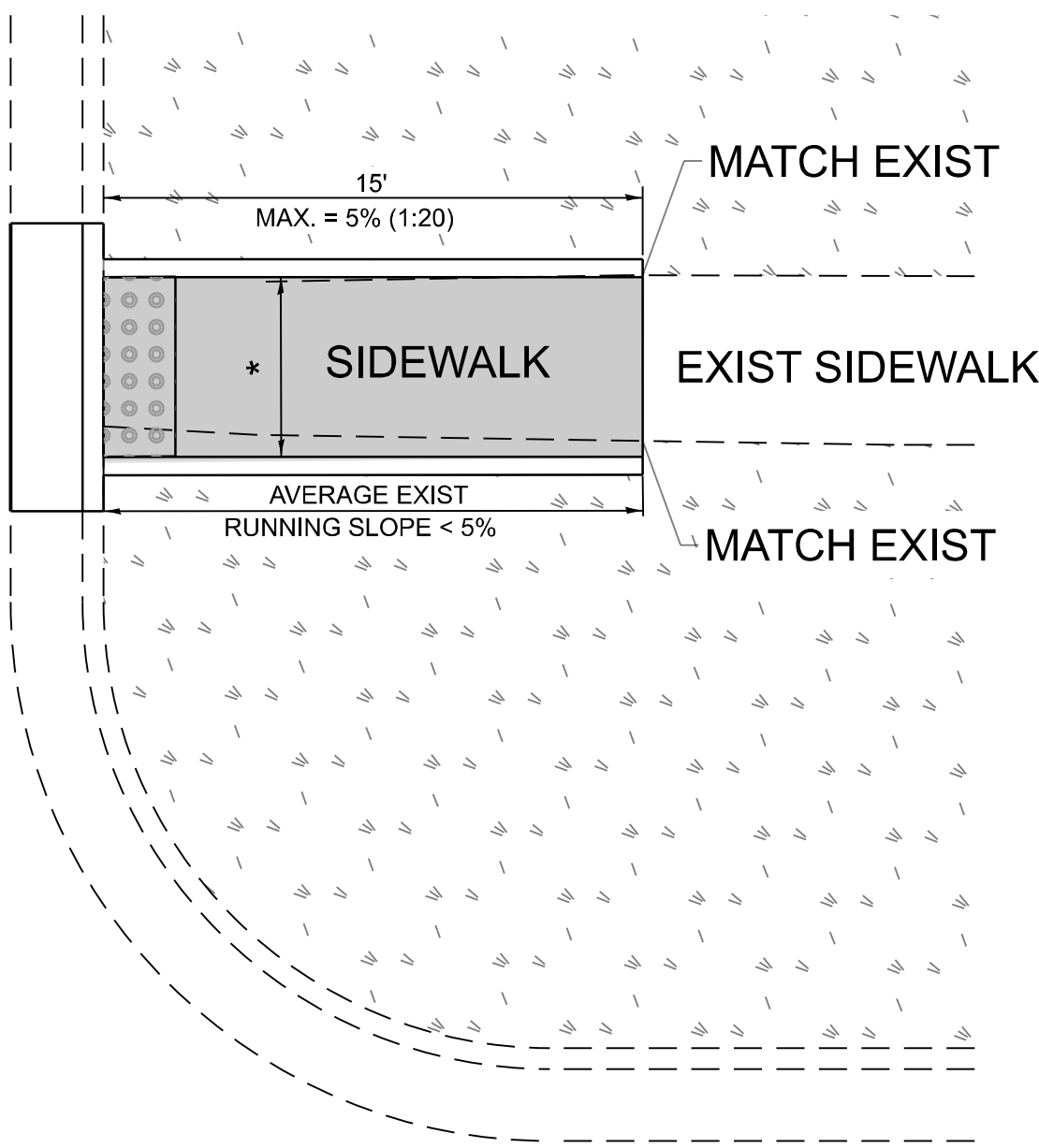
- NOTES:**
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
FAR LEFT SIDE OF THE DRIVEWAY.
 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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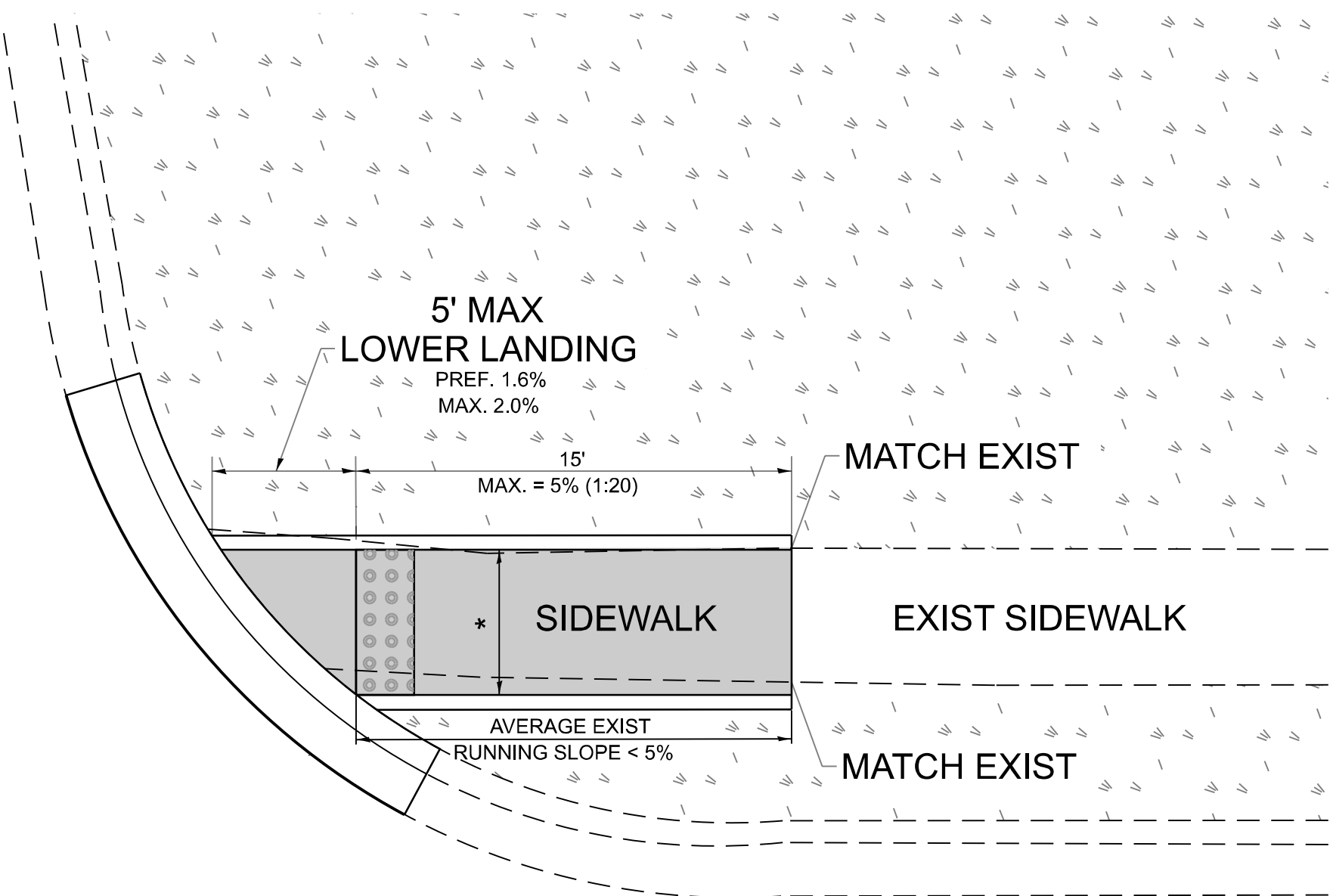
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		DRAWN -	REVISED -							330	2025-2116-RS,SW	LAKE	61	52
		CHECKED -	REVISED -			TC-26			CONTRACT NO. 80C62					
	PLOT DATE = 8/14/2026	DATE -	REVISED -			SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

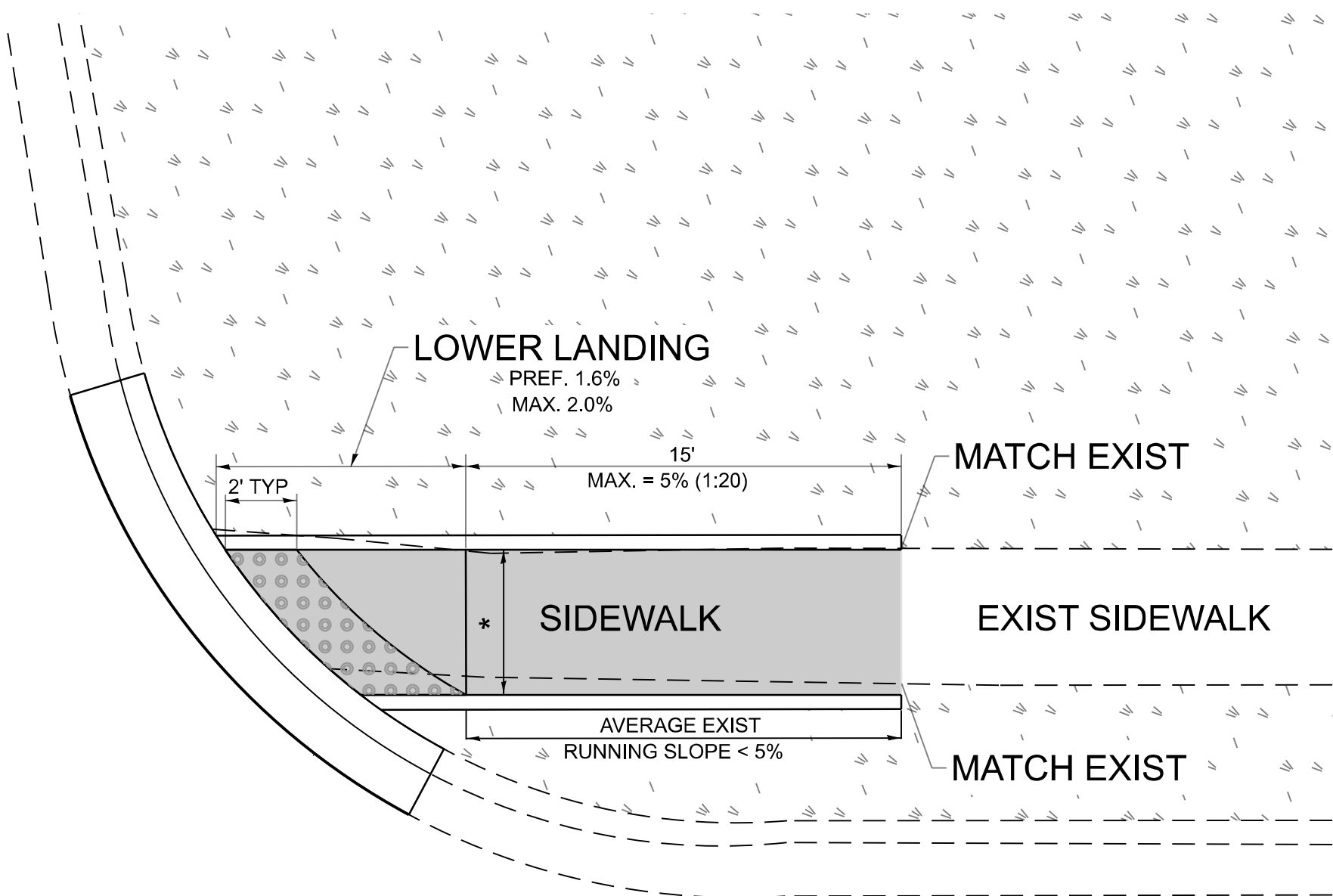
PD-01A



PD-01B



PD-01C



LEGEND

- EXIST. GRASS
- PROPOSED SIDEWALK
- PROPOSED SIDE CURB
- DETECTABLE WARNINGS

CONSTRUCTION NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- * MATCH EXISTING SIDEWALK WIDTH

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		CHECKED	-	REVISED	-
PLOT DATE	= 8/14/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-01)

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	53
PD-01		CONTRACT NO. 80C62		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

ITEM				ITEM				ITEM			
EXISTING		PROPOSED		EXISTING		PROPOSED		EXISTING		PROPOSED	
TRAFFIC SIGNAL CABINET				HANDHOLE				SIGNAL HEAD			
UNINTERRUPTABLE POWER SUPPLY				DOUBLE HANDHOLE				-(P) PROGRAMMABLE SIGNAL HEAD			
COMMUNICATION CABINET				HEAVY DUTY HANDHOLE				-(EV) ELONGATED VISORS			
MASTER CONTROLLER				JUNCTION BOX				SIGNAL HEAD WITH BACKPLATE			
MASTER MASTER CONTROLLER				RAILROAD CANTILEVER MAST ARM				-(RB) RETROREFLECTIVE BACKPLATE			
SERVICE INSTALLATION				RAILROAD FLASHING SIGNAL				-(P) PROGRAMMABLE SIGNAL HEAD			
-(P) POLE MOUNTED				RAILROAD CROSSING GATE				-(EV) ELONGATED VISORS			
SERVICE INSTALLATION				RAILROAD CROSSBUCK				PEDESTRIAN SIGNAL HEAD			
-(G) GROUND MOUNTED				RAILROAD CONTROLLER BUNGALOW				WITH COUNTDOWN TIMER			
-(GM) GROUND MOUNTED METERED				UNDERGROUND CONDUIT (UC), GALVANIZED STEEL				ILLUMINATED LED SIGN			
CELLULAR MODEM				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				"NO LEFT TURN"/"NO RIGHT TURN"			
TELEPHONE CONNECTION				SYSTEM ITEM				ELECTRIC CABLE, SIGNAL, NO. 14 - 2/C, 3/C, 5/C, 7/C			
STEEL MAST ARM ASSEMBLY AND POLE				INTERSECTION ITEM				ELECTRIC CABLE, LEAD-IN, NO. 14, 1 PAIR			
ALUMINUM MAST ARM ASSEMBLY AND POLE				REMOVAL ITEM				SERVICE CABLE, 2/C - NO. 2, NO. 4, NO. 6			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				RELOCATE ITEM				GROUND CABLE			
SIGNAL POST				ABANDON ITEM				NO. 6 SOLID COPPER (GREEN), 1/C			
-(BM) BARREL MOUNTED - TEMPORARY				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED				ELECTRIC CABLE, TRACER, NO. 14, 1/C			
WOOD POLE				MAST ARM POLE AND FOUNDATION TO BE REMOVED				RAILROAD NO. 14 3/C			
GUY WIRE				SIGNAL POST AND FOUNDATION TO BE REMOVED				ELECTRIC CABLE, STREET NAME SIGN NO. 14, 3/C, TYPE SOOW			
SIGNAL HEAD				DETECTOR LOOP, TYPE I				VENDOR CABLE			
SIGNAL HEAD WITH BACKPLATE				PREFORMED DETECTOR LOOP				EMERGENCY VEHICLE PRIORITY LINE SENSOR CABLE, NO. 20, 3/C			
SIGNAL HEAD - PROGRAMMABLE				WIRELESS DETECTOR SENSOR				OUTDOOR RATED NETWORK CABLE			
FLASHER INSTALLATION								FIBER OPTIC CABLE			
-(FS) SOLAR POWERED								-12F: 12 MULTIMODE			
PEDESTRIAN SIGNAL HEAD								-24F: 12 MULTIMODE / 12 SINGLE MODE			
PEDESTRIAN PUSH BUTTON								-36F: 12 MULTIMODE / 24 SINGLE MODE			
-(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON								-24SM: 24 SINGLE MODE			
RADAR DETECTION SENSOR								-48SM: 48 SINGLE MODE			
VIDEO DETECTION CAMERA								GROUND ROD			
RADAR/VIDEO DETECTION ZONE								-(C) CONTROLLER			
PAN, TILT, ZOOM (PTZ) CAMERA								-(M) MAST ARM			
EMERGENCY VEHICLE LIGHT DETECTOR								-(P) POST			
CONFIRMATION BEACON								-(S) SERVICE			
WIRELESS INTERCONNECT											
WIRELESS INTERCONNECT RADIO REPEATER											
WIRELESS ACCESS POINT											

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

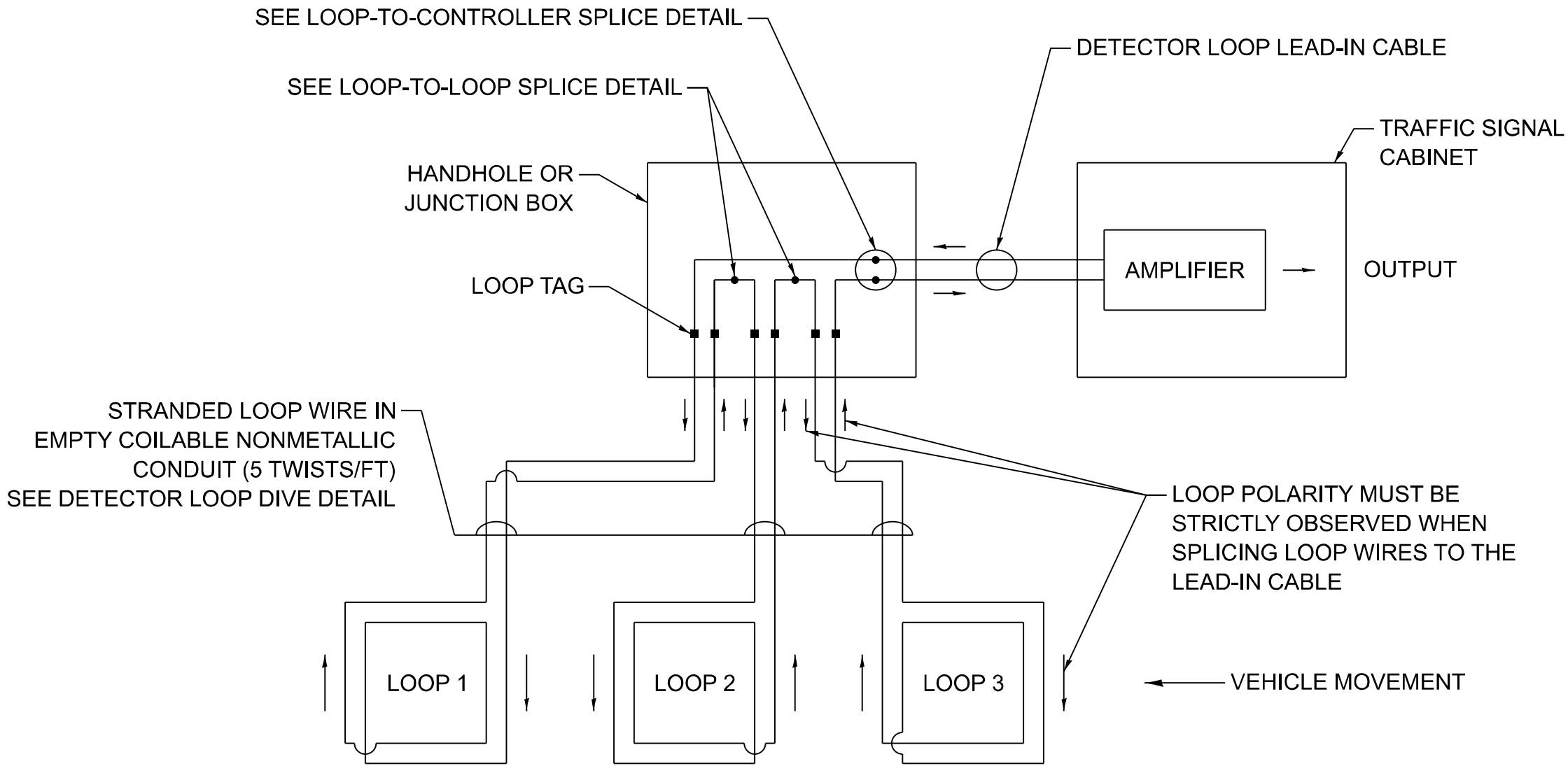
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE	SHEET 1	OF 7	SHEETS	STA.	TO STA.
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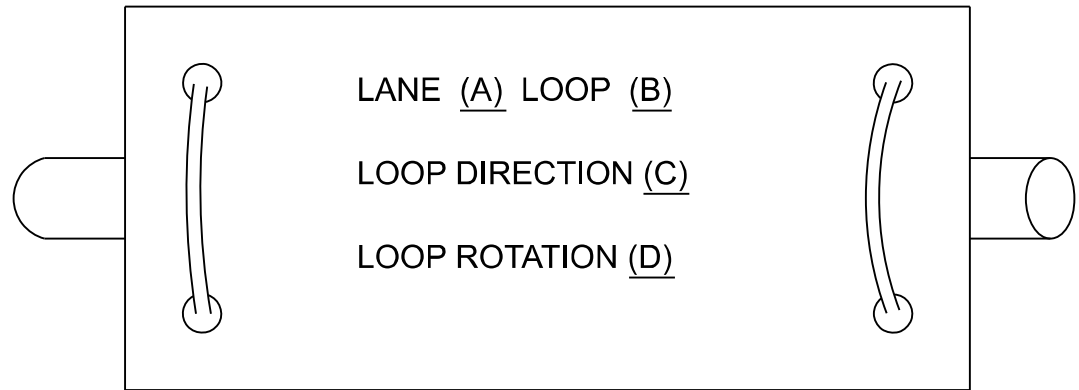
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	54
TS-01		CONTRACT NO. 80C62		
		ILLINOIS	FED. AID PROJECT	

DETECTOR LOOP NOTES:

1. LOOPS SHALL BE SPLICED IN SERIES.
2. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" AT A DEPTH OF 3". IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
3. LOOP CORNERS SHALL BE DRILLED WITH A 2" DIAMETER CORE.
4. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NON-METALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6". EMPTY COILABLE NON-METALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE DETECTOR LOOP PAY ITEM.
5. 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.
6. EACH LEAD-IN CABLE SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP NUMBER, LOOP DIRECTION (IN OR OUT), AND LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE) IN WATER PROOF INK. SEE DETECTOR LOOP LEAD-IN CABLE TAG DETAIL. THE CONTRACTOR SHALL MARK THE LOOP LOCATIONS ON THE RECORD DRAWINGS AND PRESENT THEM TO THE ENGINEER AFTER THE FINAL INSPECTION.
7. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
8. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND THE DIVE HOLES 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" APART.
9. 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.
10. PREFORMED DETECTOR LOOPS SHALL BE USED 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.

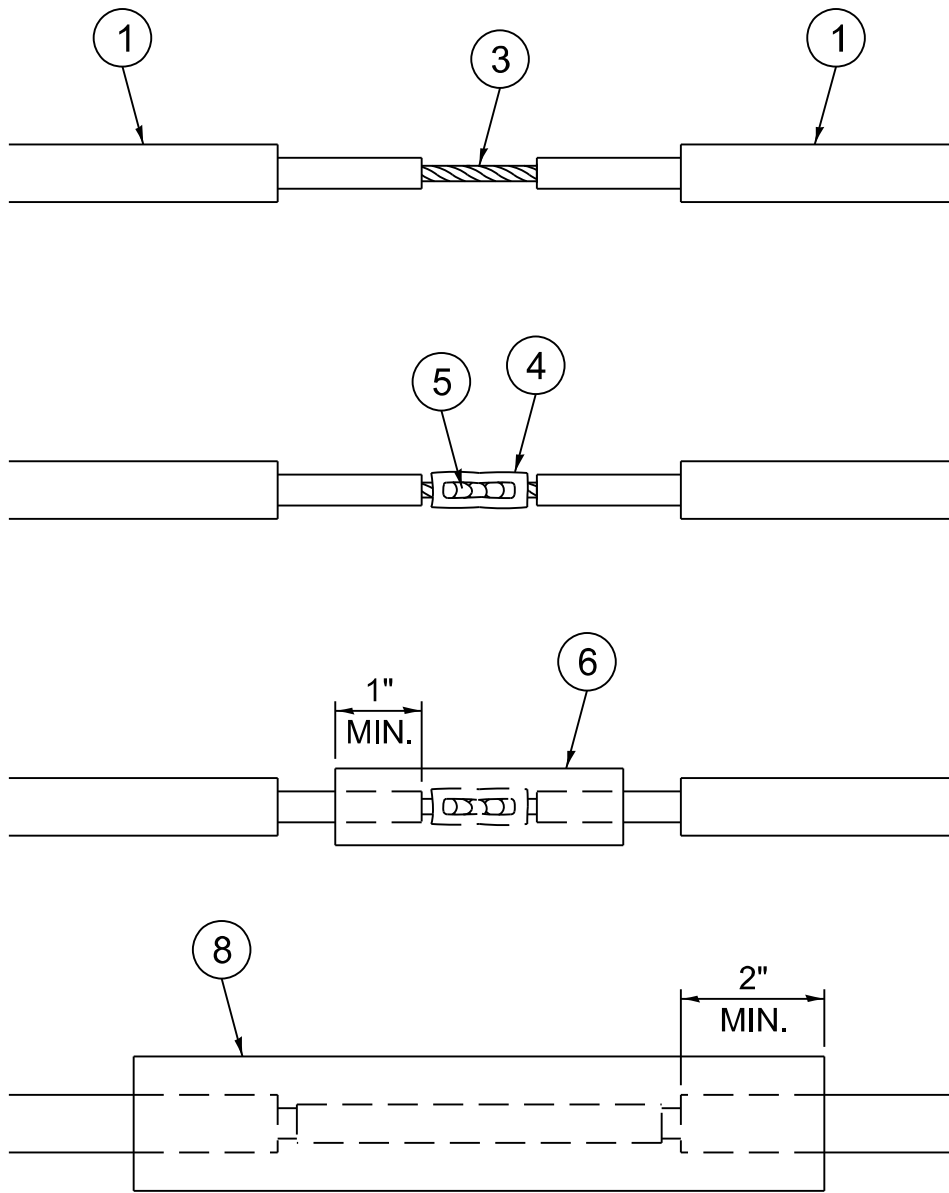


DETECTOR LOOP WIRING SCHEMATIC



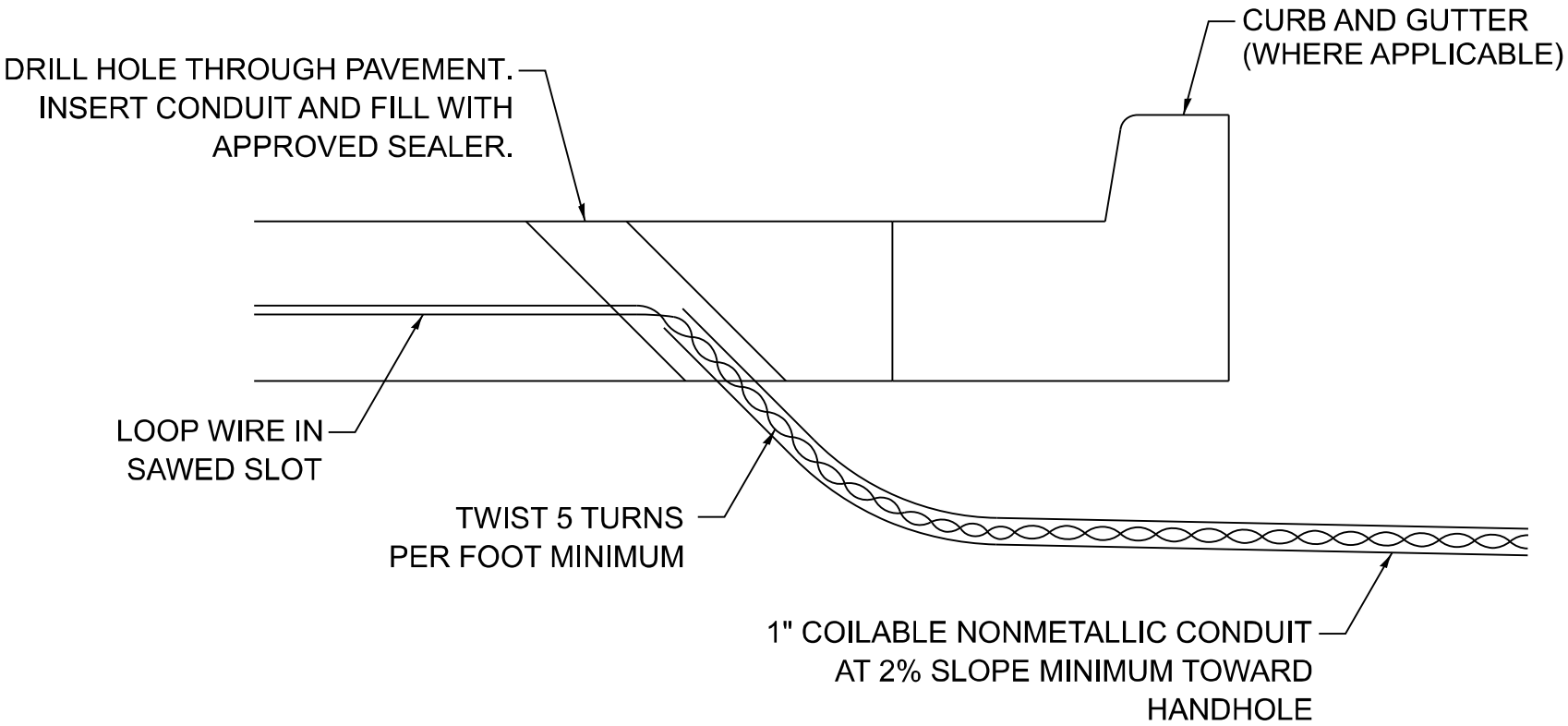
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY.
- B. LOOP #1 IS THE LOOP CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

DETECTOR LOOP LEAD-IN CABLE TAG

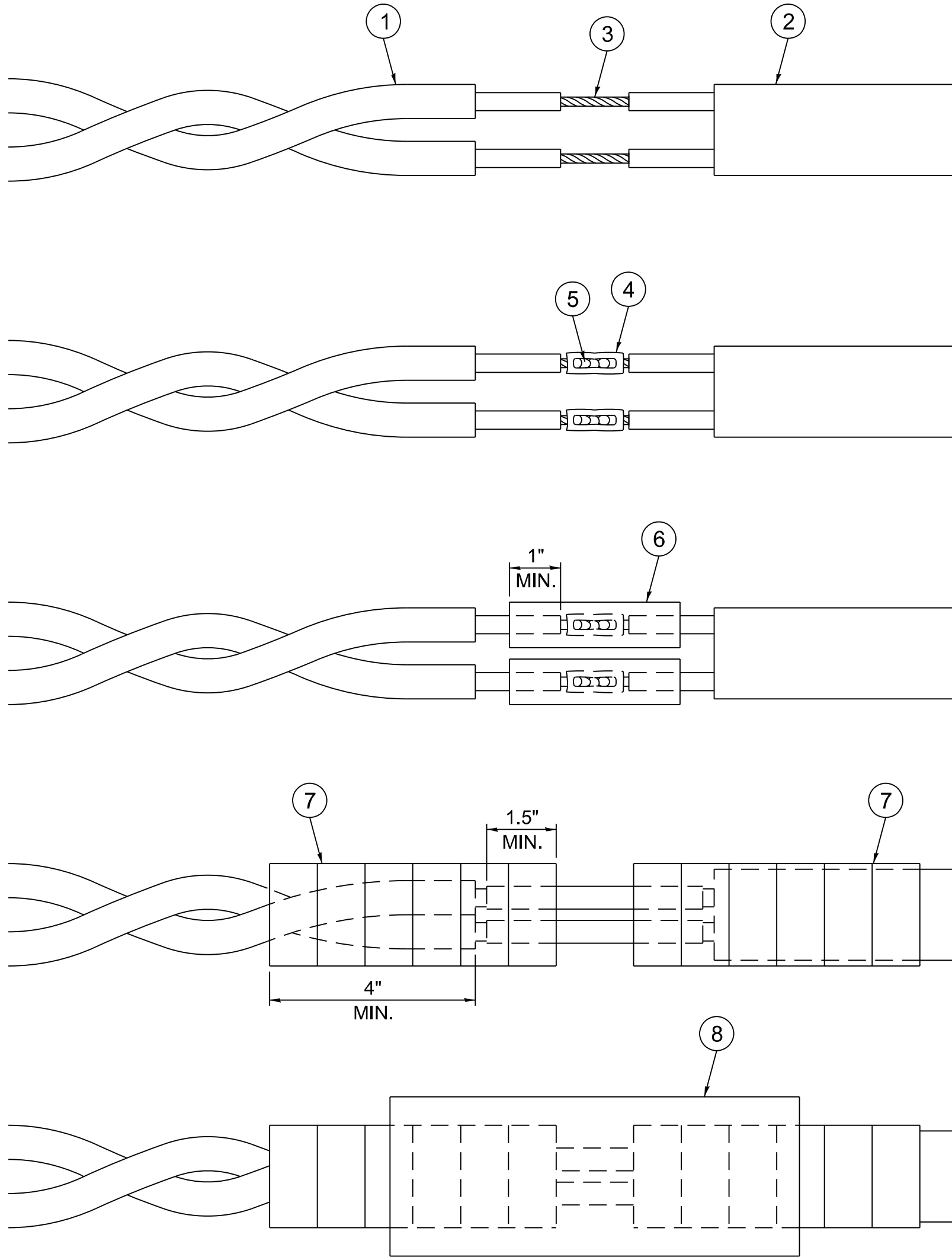


LOOP-TO-LOOP SPLICE DETAIL

- 1 DETECTOR LOOP CABLE.
- 2 DETECTOR LOOP LEAD-IN CABLE
- 3 BARE CONDUCTORS TWISTED TOGETHER.
- 4 BUTT SPLICE CRIMP CONNECTOR.
- 5 SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE SPLICES SHALL BE STAGGERED.
- 6 WCSMW 30/100 HEAT SHRINK TUBE, 3" MINIMUM LENGTH, UNDERWATER GRADE.
- 7 SELF-INFUSED, SILICONE ELECTRICAL TAPE TIGHTLY WRAPPED AROUND CABLES.
- 8 WCS 200/750 HEAT SHRINK TUBE, 8" MINIMUM LENGTH, UNDERWATER GRADE.



DETECTOR LOOP DIVE DETAIL



LOOP-TO-CONTROLLER SPLICE DETAIL

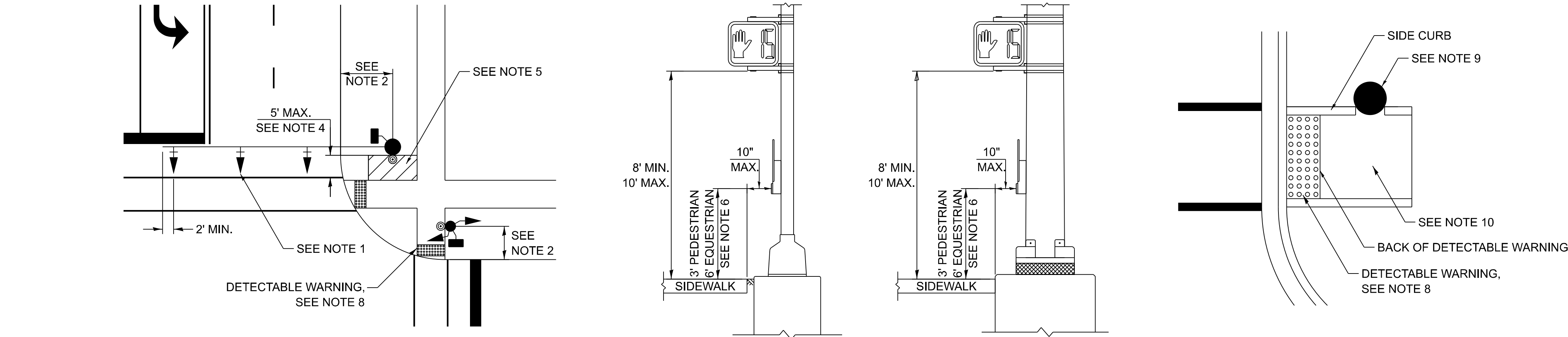
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			DRAWN - IP	REVISED -					330	2025-2116-RS,SW	LAKE	61	55
			CHECKED - NB/KK	REVISED -					TS-01		CONTRACT NO. 80C62		
	PLOT DATE = 8/14/2026		DATE - 10/15/2025	REVISED -		SCALE: NONE	SHEET 2	OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

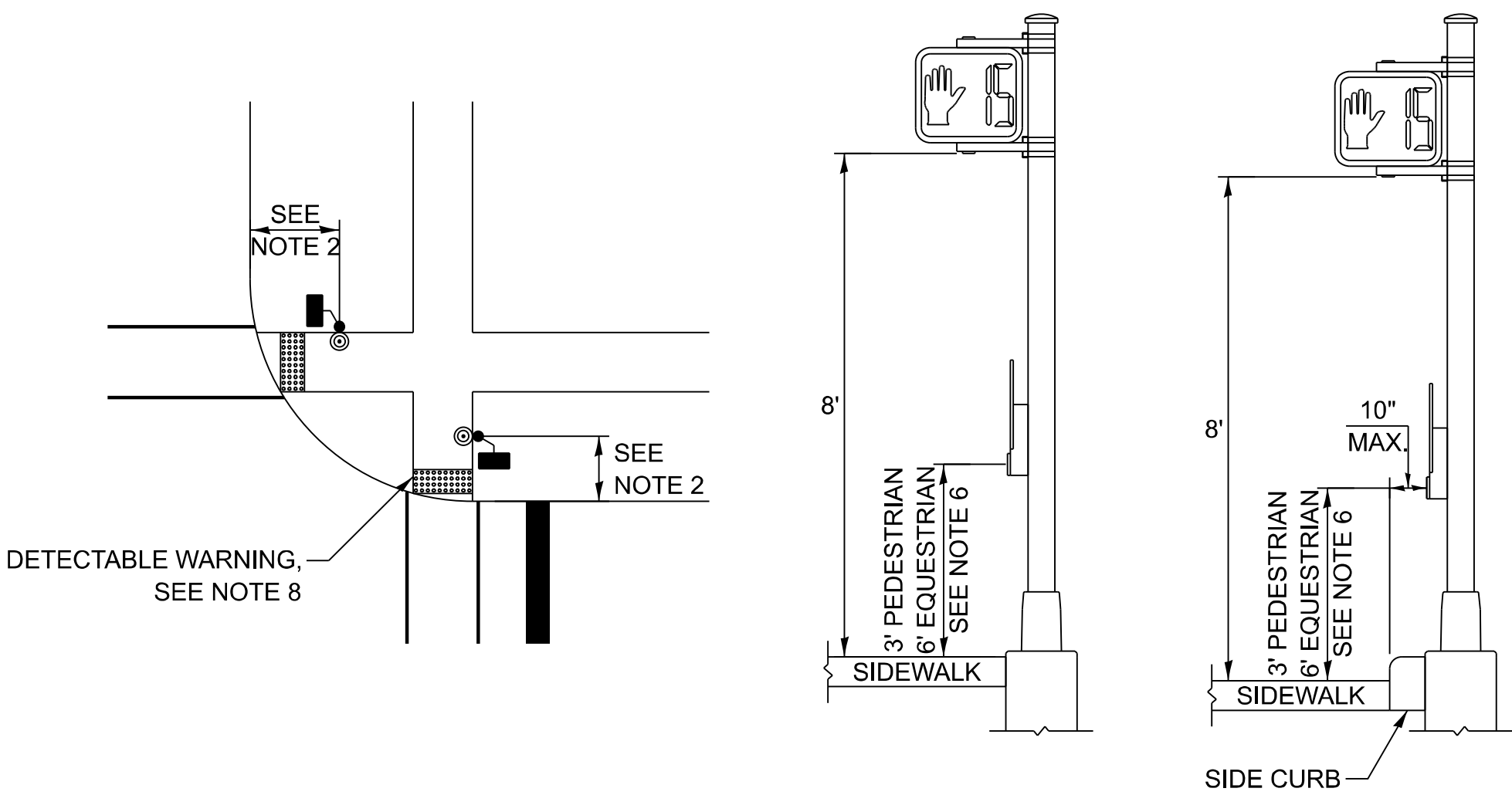
NOTES:

1. THE MAST ARM MOUNTED SIGNAL HEADS SHALL BE CENTERED ON THE LANES OR AS SHOWN ON THE TRAFFIC SIGNAL PLANS.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET MINIMUMS TABLE.
3. A 4' MINIMUM UNOBSTRUCTED PEDESTRIAN ACCESS ROUTE SHALL BE MAINTAINED.
4. THE PUSH-BUTTON SHALL BE LOCATED 5' OR LESS FROM THE OUTSIDE EDGE OF THE MARKED CROSSWALK FARTHEST FROM THE INTERSECTION FOR THE CROSSWALK THAT THE PUSH-BUTTON CONTROLS.
5. IF THE MAST ARM POLE OR SIGNAL POST WHERE THE PUSH-BUTTON IS TO BE INSTALLED IS NOT IMMEDIATELY ADJACENT TO THE SIDEWALK, PROVIDE A FIRM, STABLE, AND SLIP RESISTANT SURFACE UP TO THE MAST ARM POLE OR SIGNAL POST. THE MINIMUM PAVED AREA IN FRONT OF THE PUSH-BUTTON SHALL BE 2.5' X 4'. IF THIS DOES NOT MEET THE REQUIREMENT STATED IN NOTE 3, A SEPARATE PEDESTRIAN SIGNAL POST SHALL BE INSTALLED TO PLACE THE PUSH-BUTTON ADJACENT TO THE SIDEWALK SURFACE.
6. THE HEIGHT OF THE PEDESTRIAN PUSH-BUTTON SHALL BE 36". IF APPROVED BY THE AREA TRAFFIC SIGNAL ENGINEER, THE PUSH-BUTTON MAY BE LOCATED AT A HEIGHT BETWEEN 30" AND 42". THE HEIGHT OF THE EQUESTRIAN PUSH-BUTTON SHAL BE 72" OR AS DIRECTED BY THE ENGINEER.
7. THE FACE OF THE PUSH-BUTTON SHALL BE PARALLEL TO THE CROSSWALK IT CONTROLS.
8. THE PUSH-BUTTON SHALL BE LOCATED BEHIND THE DETECTABLE WARNING.
9. WHERE A PUSH-BUTTON IS BEING INSTALLED ON A MAST ARM POLE OR SIGNAL POST ADJACENT TO THE PEDESTRIAN ACCESS ROUTE, THE PROPOSED FOUNDATION SHALL BE INSTALLED WITHIN THE SIDE CURB IN ORDER TO MEET THE 10" REACH REQUIREMENT.
10. THE SIDEWALK PANEL IN FRONT OF THE PUSH-BUTTON SHALL HAVE A SLOPE LESS THAN 5%.
11. WHERE TWO PEDESTRIAN PUSH-BUTTONS ARE PROVIDED ON THE SAME CORNER, THEY SHALL BE 10' OR MORE APART. EXCEPTION: IN ALTERATIONS WHERE TECHNICALLY INFEASIBLE TO PROVIDE 10' SEPARATION BETWEEN PUSH-BUTTONS ON THE SAME CORNER.
12. CORRESPONDING PEDESTRIAN EQUIPMENT (SIGNAL HEAD AND PUSH-BUTTON) SHALL BE INSTALLED ON THE SAME POST CLOSEST TO THE CROSSWALK IT CONTROLS.
13. PEDESTRIAN SIGNAL HEADS INSTALLED ON MAST ARM POLES OR SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' OR MORE THAN 10' ABOVE SIDEWALK LEVEL. PEDESTRIAN SIGNAL HEADS INSTALLED ON PEDESTRIAN SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' ABOVE SIDEWALK LEVEL. THE PEDESTRIAN SIGNAL HEADS SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
14. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

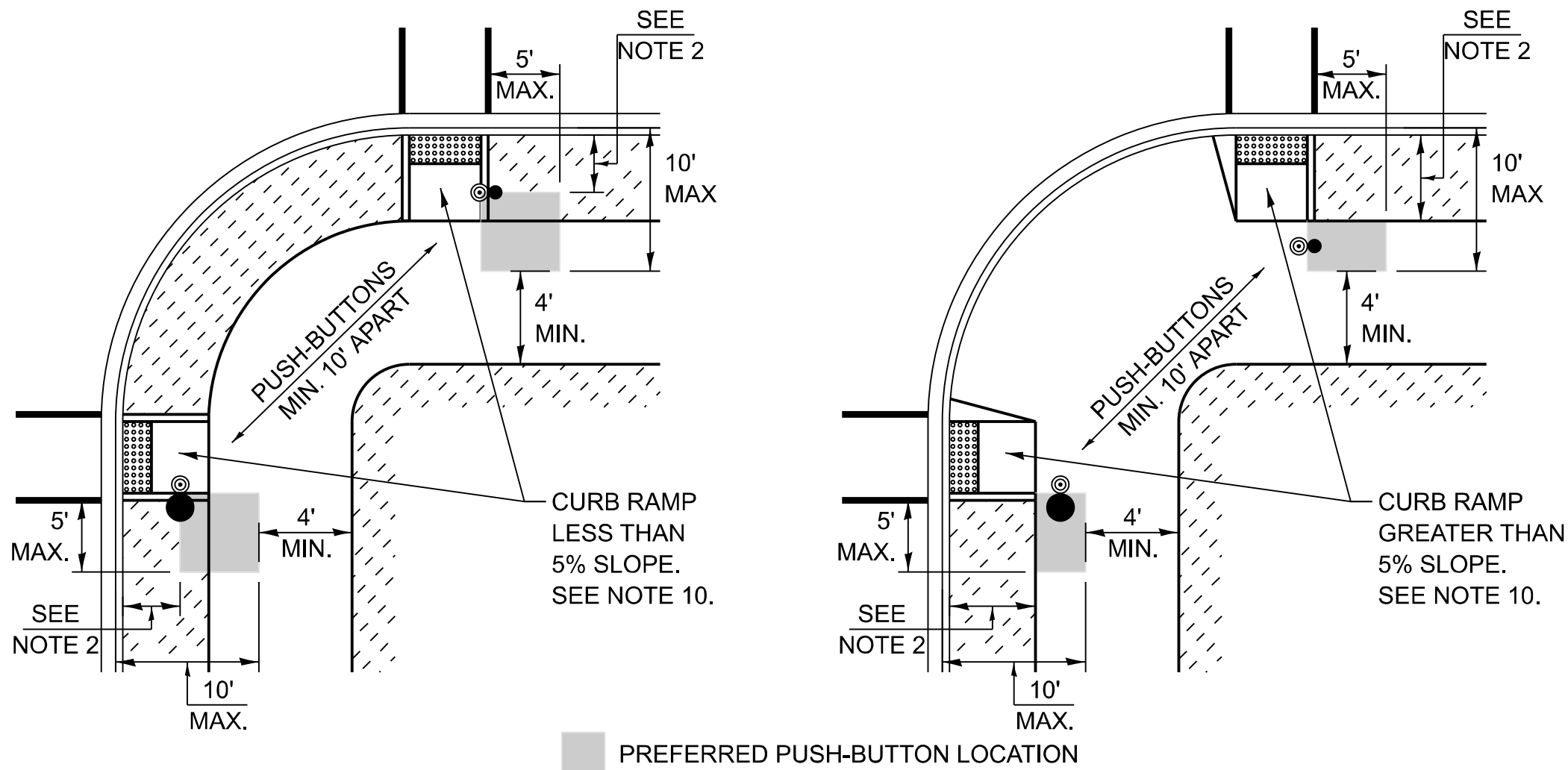
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST



PEDESTRIAN SIGNAL POST



PUSH-BUTTON LOCATIONS



TRAFFIC SIGNAL EQUIPMENT	BARRIER CURB (MINIMUM DISTANCE FROM THE BACK OF CURB TO THE CENTER OF THE FOUNDATION)	SHOULDER / NON-BARRIER CURB (MINIMUM DISTANCE FROM THE EDGE LINE OF THE RIGHT-MOST LANE TO THE CENTER OF THE FOUNDATION)
MAST ARM ASSEMBLY AND POLE	6'	SHOULDER WIDTH + 2', MINIMUM 10'
SIGNAL POST	4'	SHOULDER WIDTH + 2', MINIMUM 10'
PEDESTRIAN SIGNAL POST	4'	4' - SEE NOTE 2
TEMPORARY WOOD POLE	6'	SHOULDER WIDTH + 2', MINIMUM 10'
TRAFFIC SIGNAL CABINET	6' - SEE NOTE 3	SHOULDER WIDTH + 6', MINIMUM 16' - SEE NOTE 3
SERVICE CABINET	6' - SEE NOTE 3	SHOULDER WIDTH + 6', MINIMUM 16' - SEE NOTE 3

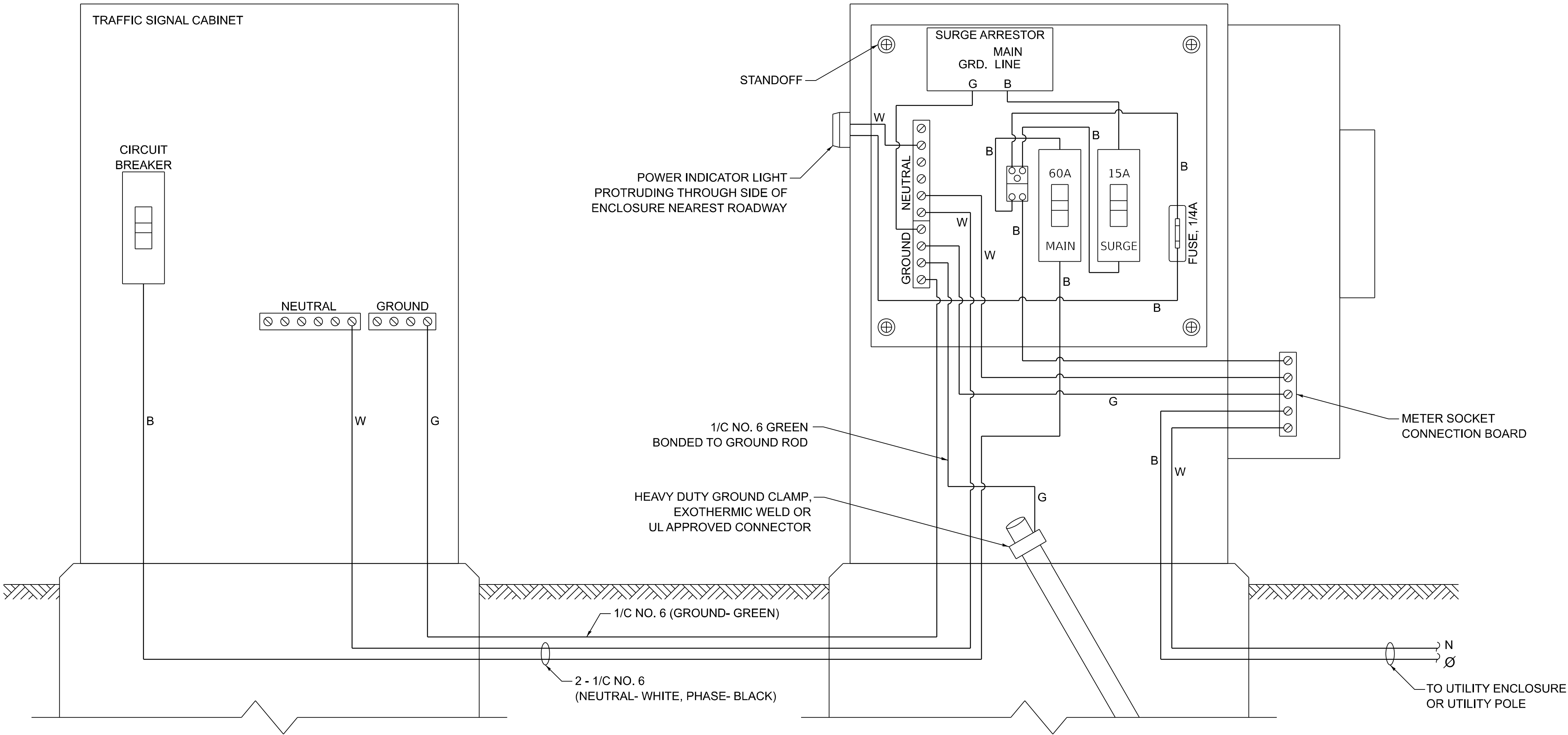
TRAFFIC SIGNAL EQUIPMENT OFFSET MINIMUMS

NOTES:

1. CONTACT THE AREA TRAFFIC SIGNAL ENGINEER FOR ASSISTANCE LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS AND THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF THE DETECTABLE WARNING.
3. MINIMUM DISTANCE 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" TABLE AND THE TRAFFIC SIGNAL PLAN COULD AFFECT THE PLACEMENT OF THE TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND THE PEDESTRIAN PUSH-BUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THESE REQUIREMENTS. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

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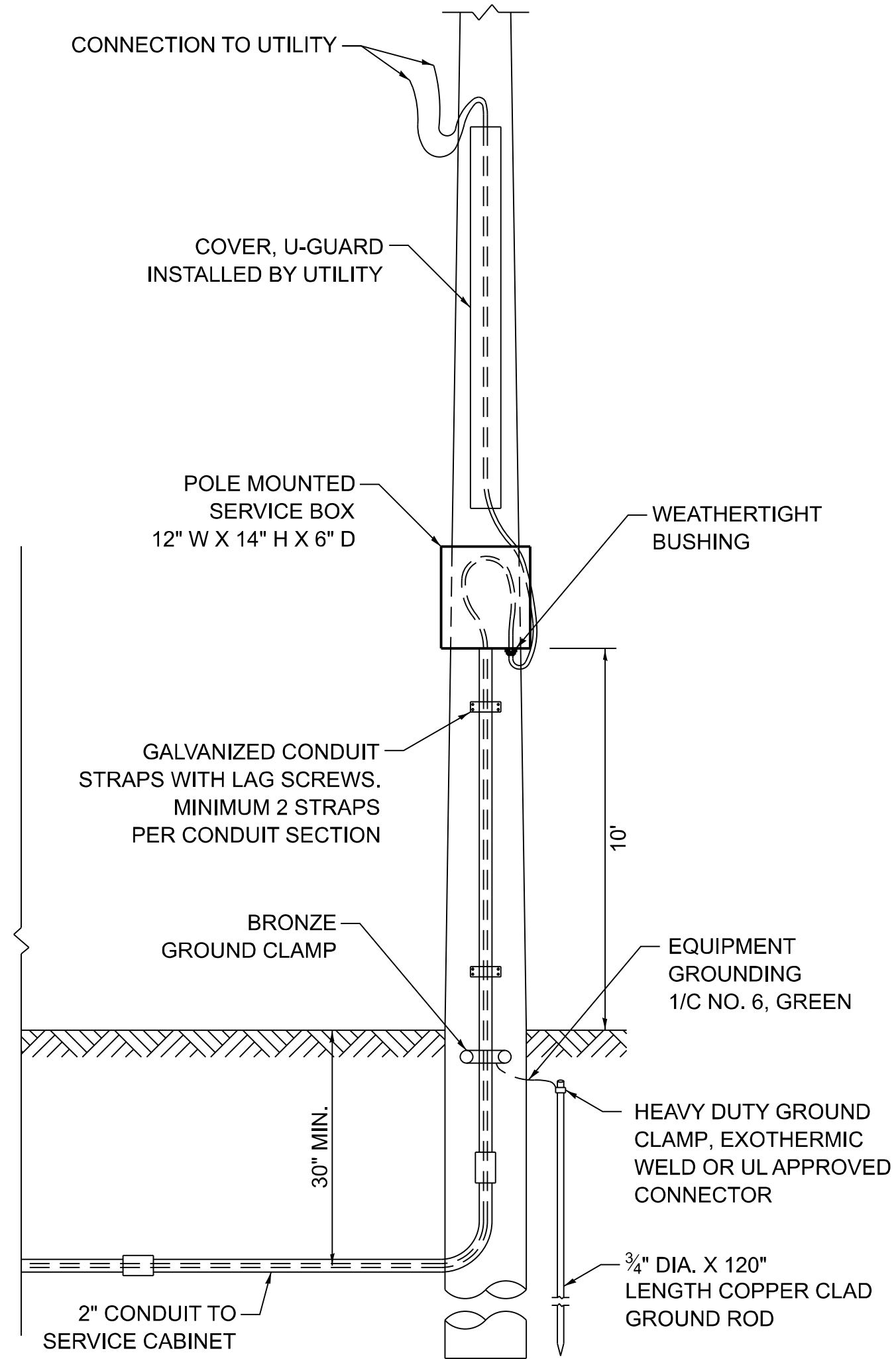
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		DRAWN - IP	REVISED -						330	2025-2116-RS,SW	LAKE	61	56
		CHECKED - NB/KK	REVISED -		TS-01				CONTRACT NO. 80C62				
	PLOT DATE = 8/14/2026	DATE - 10/15/2025	REVISED -										
					SCALE: NONE	SHEET 3	OF 7	SHEETS	STA.	TO STA.			



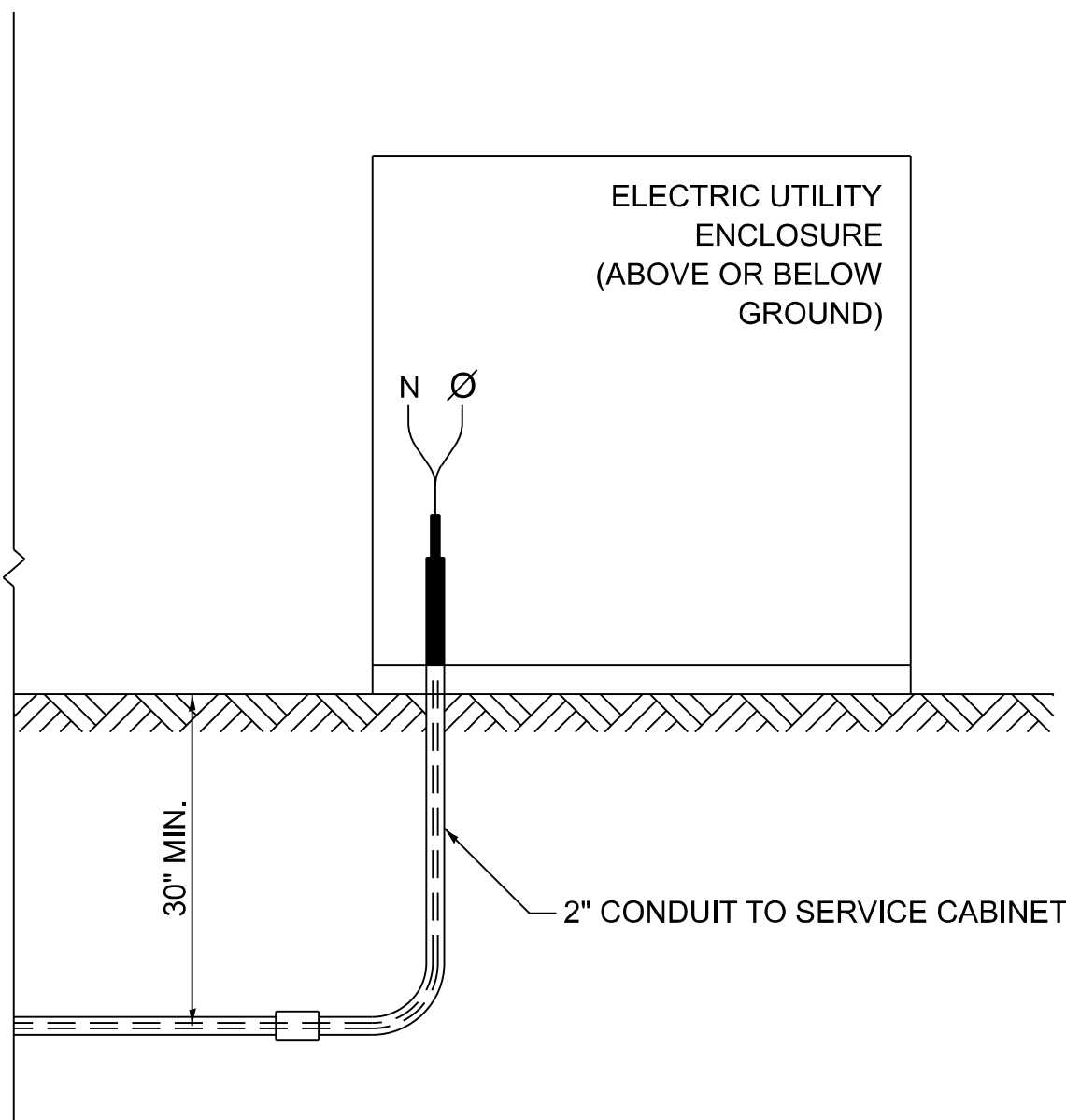
ELECTRIC SERVICE WIRING DIAGRAM IN GROUND MOUNTED SERVICE CABINET

NOTES:

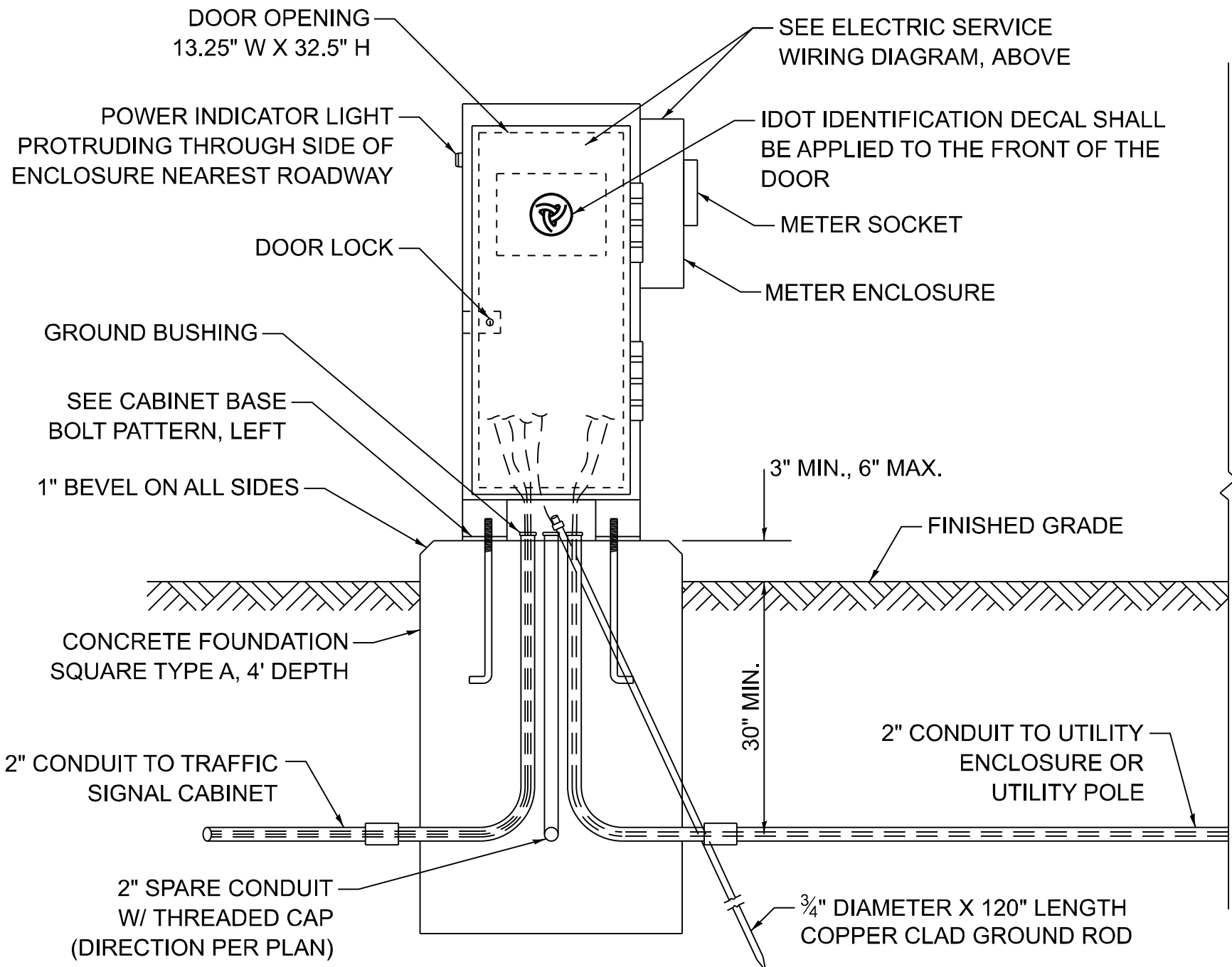
1. THE GROUND MOUNTED SERVICE CABINET IS TO BE LOCATED BETWEEN THE TRAFFIC SIGNAL CABINET AND THE UTILITY CONNECTION, PREFERABLY 20' TO 50' FROM THE TRAFFIC SIGNAL CONTROLLER CABINET.
2. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO UL STD. 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE UL LABEL.
3. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
4. THE METER SOCKET IS TO BE PROVIDED BY THE CONTRACTOR. THE METER IS TO BE PROVIDED BY THE UTILITY COMPANY.



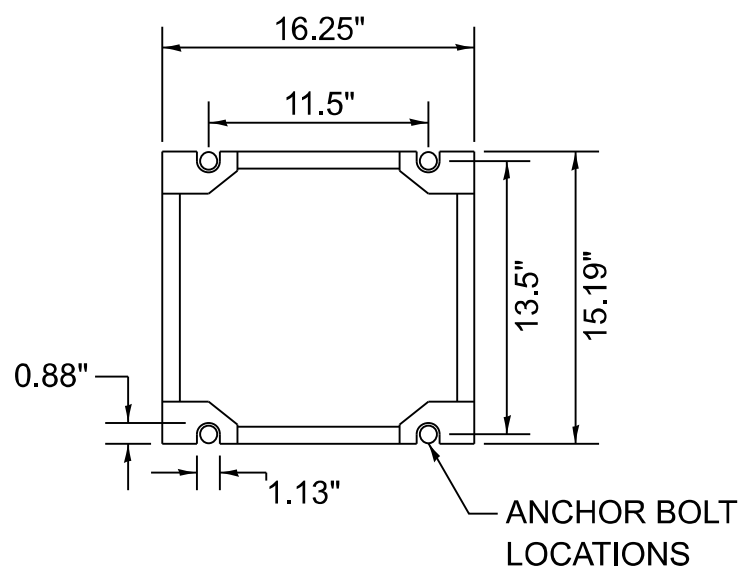
CONNECTION TO UTILITY POLE



CONNECTION TO UTILITY ENCLOSURE



SERVICE INSTALLATION - GROUND MOUNTED WITH METER



CABINET BASE BOLT PATTERN

MODEL: TS-01d [Sheet]
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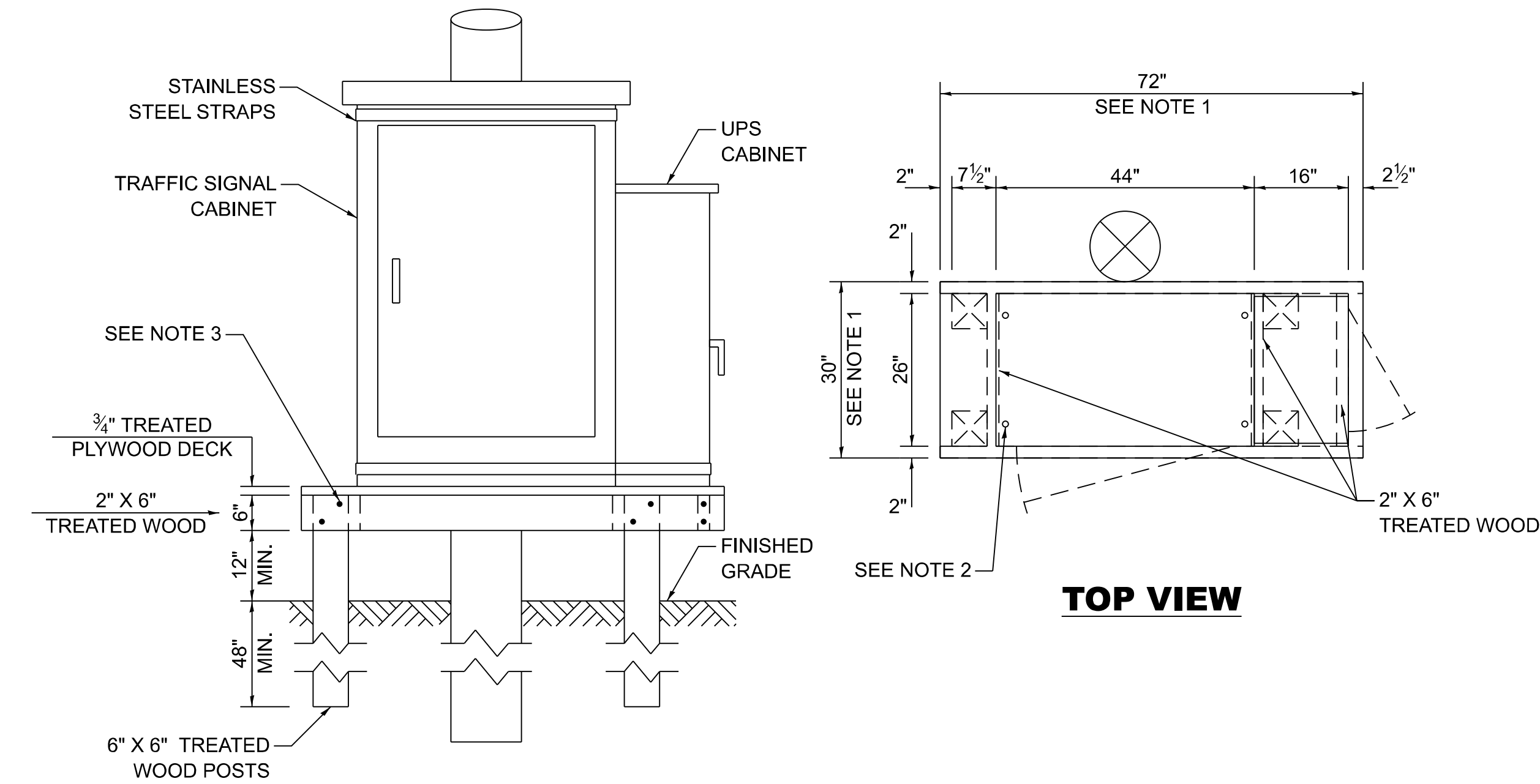
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	57
TS-01		CONTRACT NO. 80C62		
ILLINOIS		FED. AID PROJECT		

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NOTES:

1. THE PLATFORM SIZE IS BASED ON A TRAFFIC SIGNAL CABINET TYPE IV WITH BASE DIMENSIONS OF 26" X 44" AND UNINTERRUPTABLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" X 25". ADJUST THE PLATFORM SIZE TO FIT THE BASE DIMENSIONS OF THE CABINET SUPPLIED.
2. DRILLED HOLES THROUGH THE PLATFORM ARE TO MATCH THE TRAFFIC SIGNAL CABINET BOLT TEMPLATE. THE CABINET SHALL BE FASTENED TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS, AND NUTS.
3. ALL WOOD SUPPORT FRAMING SHALL BE FASTENED TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

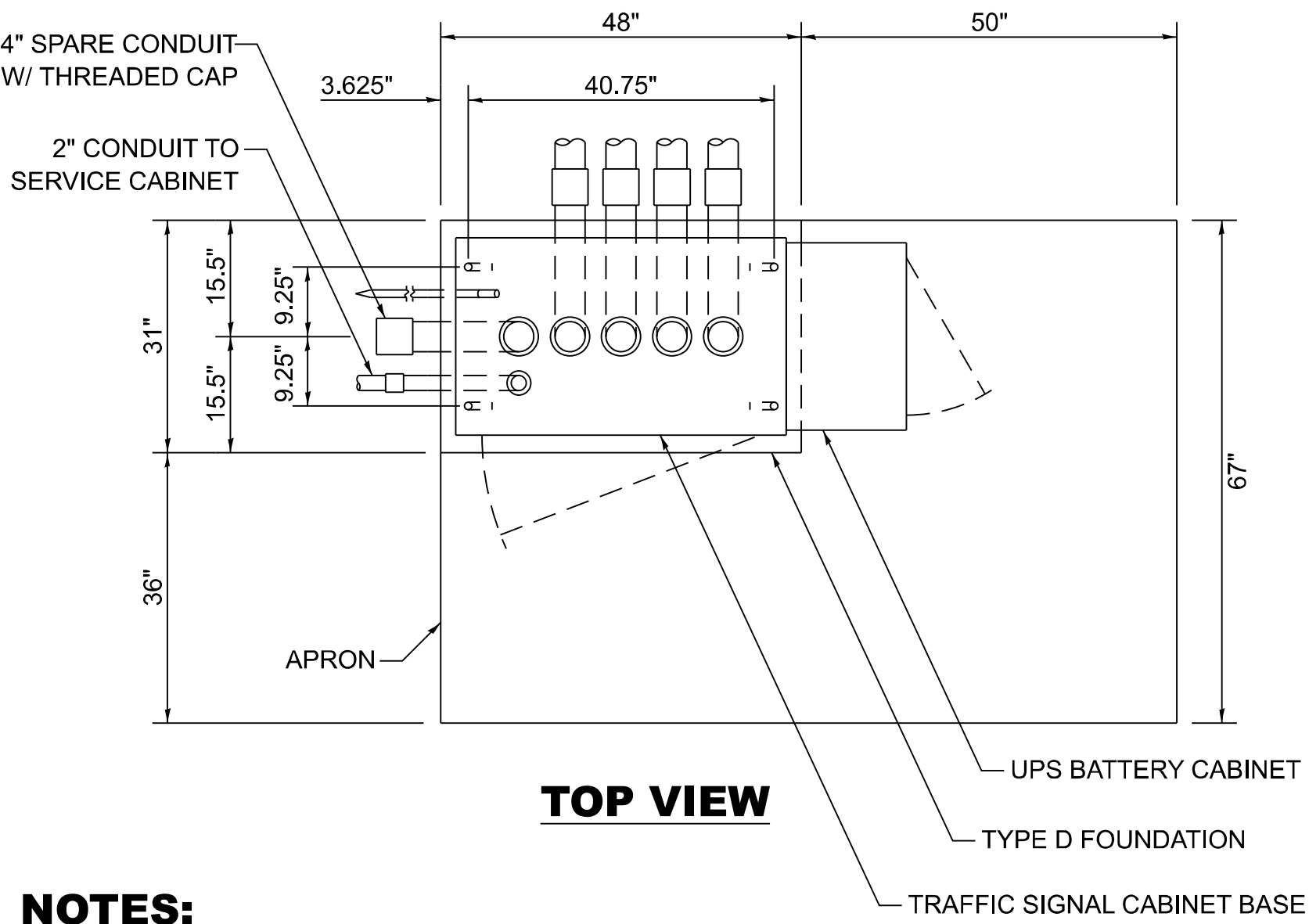
TEMPORARY TRAFFIC SIGNAL
CABINET WOOD SUPPORT PLATFORM

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
LESS THAN 30'	10'	30"	24"	8	#6
GREATER THAN OR EQUAL TO 30' AND LESS THAN 40'	13.5'	30"	24"	8	#6
	11'	36"	30"	12	#7
GREATER THAN OR EQUAL TO 40' AND LESS THAN 50'	13'	36"	30"	12	#7
GREATER THAN OR EQUAL TO 50' AND UP TO 55'	15'	36"	30"	12	#7
GREATER THAN OR EQUAL TO 56' AND LESS THAN 65'	21'	42"	36"	16	#8
GREATER THAN OR EQUAL TO 65' AND UP TO 75'	25'	42"	36"	16	#8

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

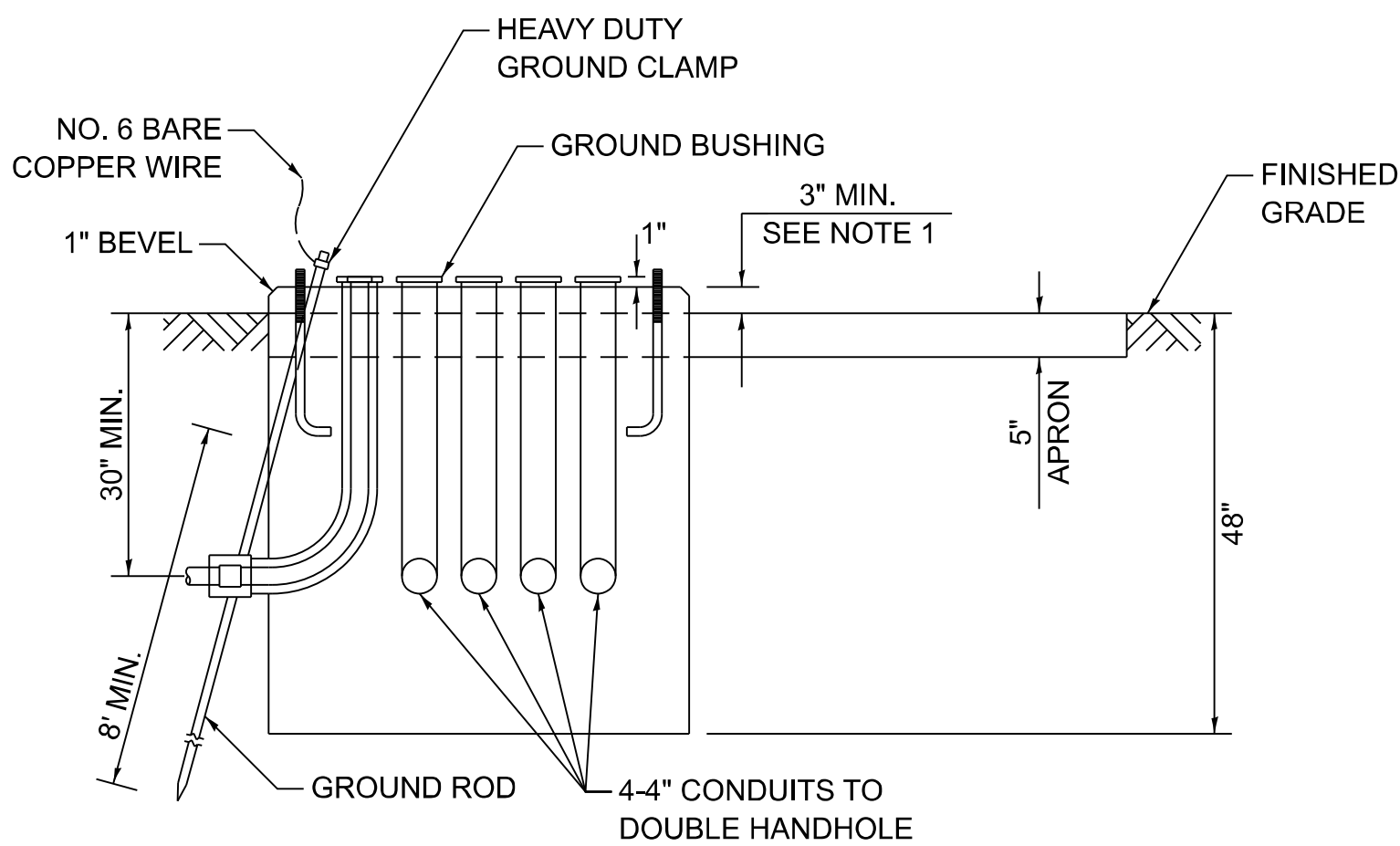
TYPE E FOUNDATION NOTES:

1. FOR STANDARD AND COMBINATION MAST ARM ASSEMBLIES. FOUNDATION DEPTHS FOR STANDARD DUAL MAST ARMS WITH THE LONGEST ARM LENGTH UP TO AND INCLUDING 55' SHALL BE INCREASE BY 1' OF THAT SHOWN IN THE TABLE, BASED ON THE LONGER OF THE TWO ARMS.
2. SEE STATE STANDARD 878001 CONCRETE FOUNDATION DETAILS FOR MORE INFORMATION.

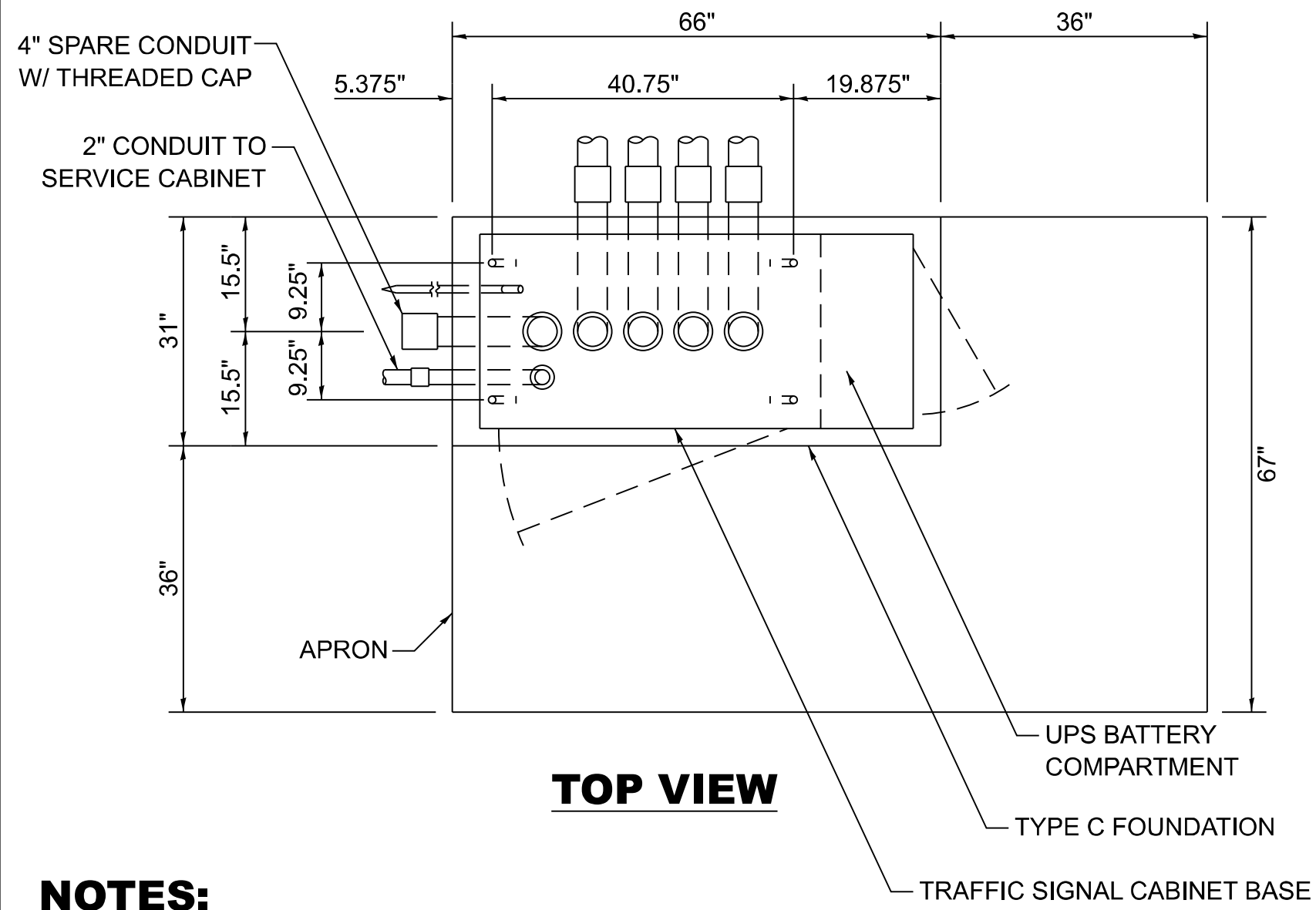


NOTES:

1. THE TOP OF THE FOUNDATION SHALL BE HIGHER THAN THE TOP OF THE DOUBLE HANDHOLE.

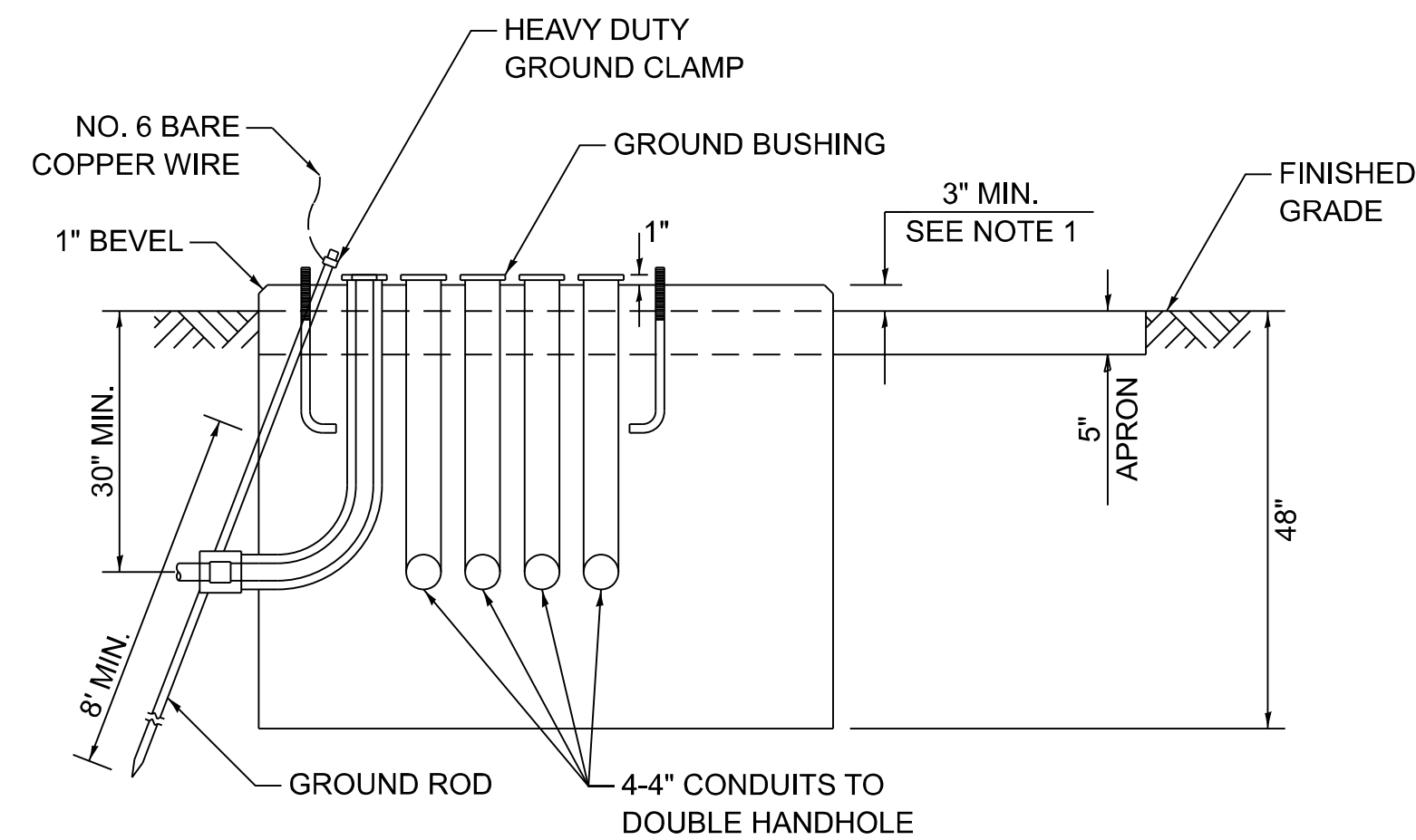


TYPE D FOUNDATION
TYPE IV AND TYPE V TRAFFIC SIGNAL CABINET
AND UPS BATTERY CABINET



NOTES:

1. THE TOP OF THE FOUNDATION SHALL BE HIGHER THAN THE TOP OF THE DOUBLE HANDHOLE.



TYPE C FOUNDATION
SUPER P AND SUPER R
TRAFFIC SIGNAL CABINETS

FOUNDATION	DEPTH
TYPE A - SIGNAL POST, SERVICE CABINET	4'
TYPE C - TRAFFIC SIGNAL CABINET WITH UPS	4'
TYPE D - TRAFFIC SIGNAL CABINET	4'

DEPTH OF FOUNDATIONS
TYPES A, C & D

VERTICAL CABLE	LENGTH
MAST ARM MOUNTED SIGNAL HEAD (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20'+L
BRACKET MOUNTED SIGNAL HEAD (MAST ARM POLE OR SIGNAL POLE)	13'
PEDESTRIAN SIGNAL HEAD	10'
PEDESTRIAN PUSH BUTTON	6'
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5'
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5'
SERVICE INSTALLATION GROUND MOUNT	6'
FOUNDATION (SIGNAL POST, MAST ARM, TRAFFIC SIGNAL CABINET, SERVICE CABINET)	3'

VERTICAL CABLE LENGTH

CABLE SLACK	LENGTH
HANDHOLE	6.5'
DOUBLE HANDHOLE	13'
SIGNAL POST	2'
MAST ARM	2'
TRAFFIC SIGNAL CABINET OR SERVICE CABINET	1.5'
FIBER OPTIC CABLE AT TRAFFIC SIGNAL CABINET	13'
GROUND CABLE AT SIGNAL POST, MAST ARM, OR CABINET	1.5'
GROUND CABLE AT HANDHOLE OR DOUBLE HANDHOLE	6.5'
GROUND CABLE BETWEEN HANDHOLE FRAME AND COVER	5'

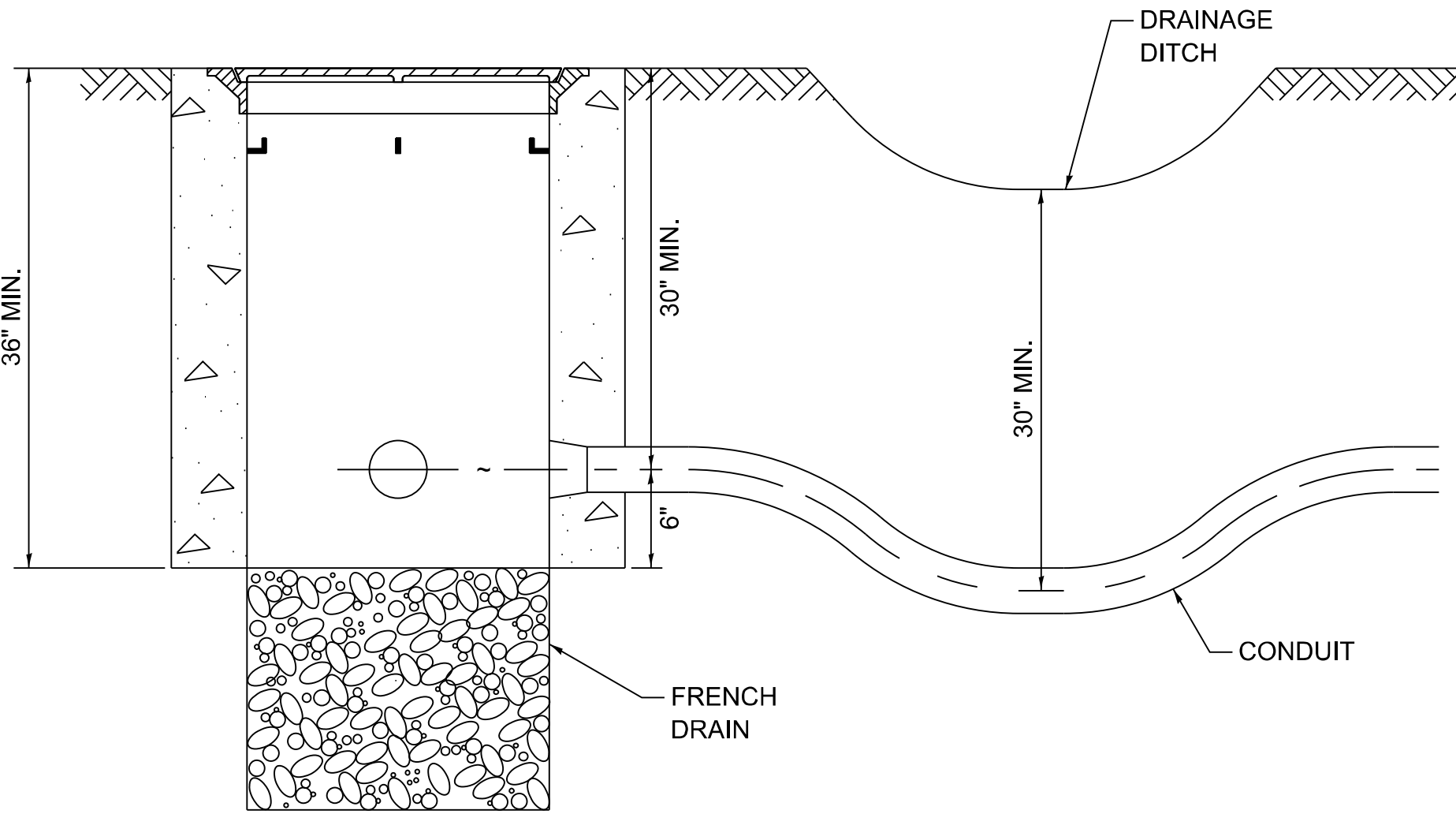
CABLE SLACK LENGTH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

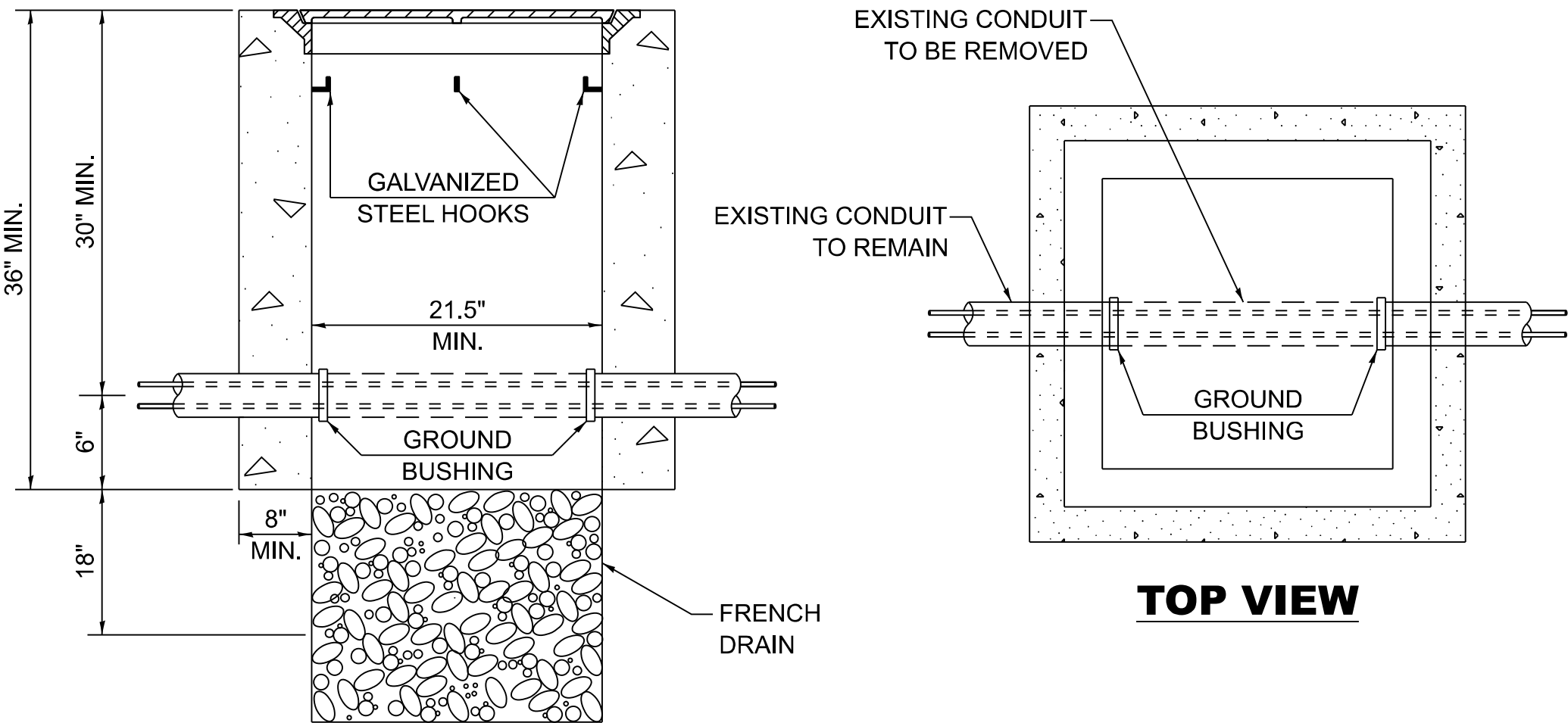
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	58
TS-01		CONTRACT NO. 80C62		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. THE CONDUIT DEPTH SHALL BE A MINIMUM OF 30" 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.

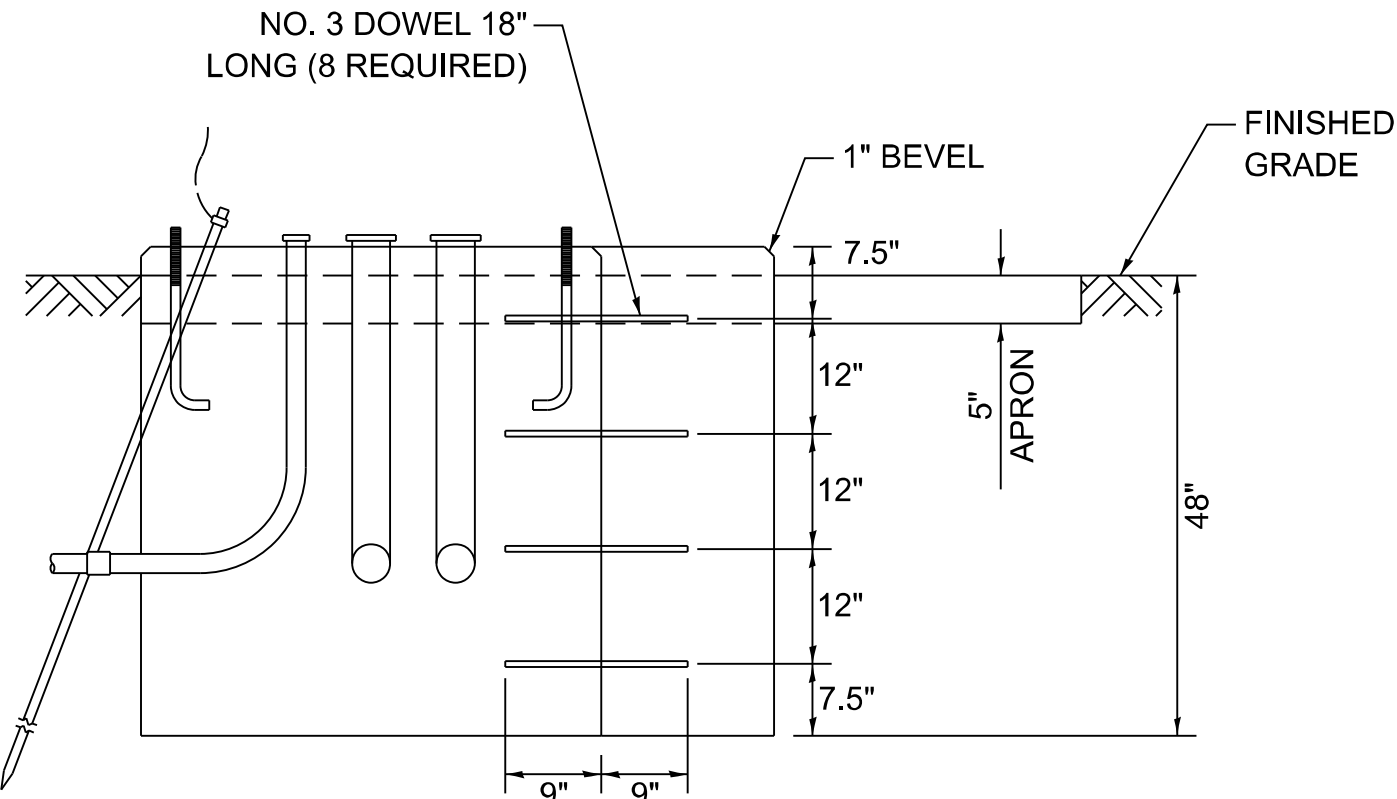
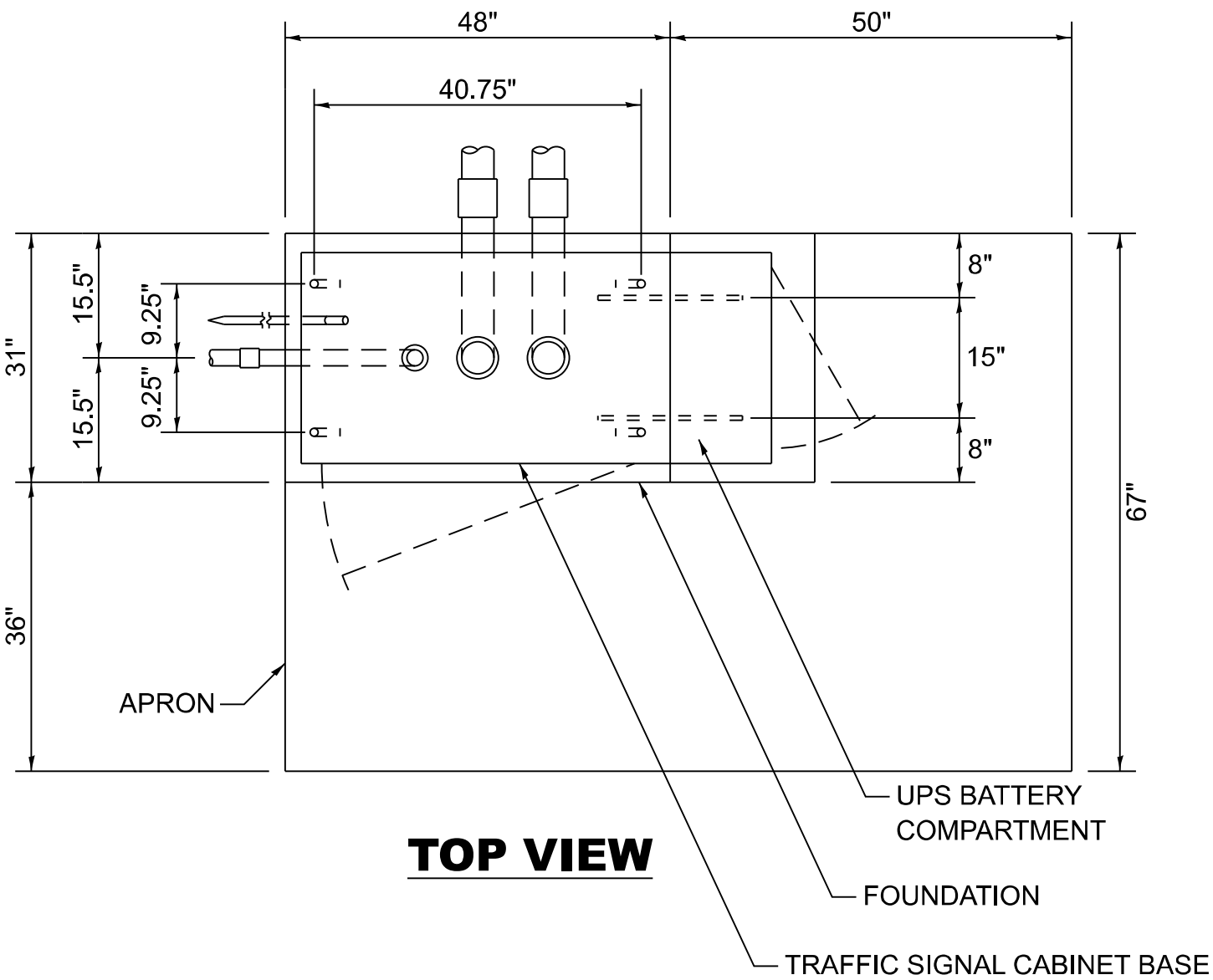
HANDHOLE WITH MINIMUM CONDUIT DEPTH



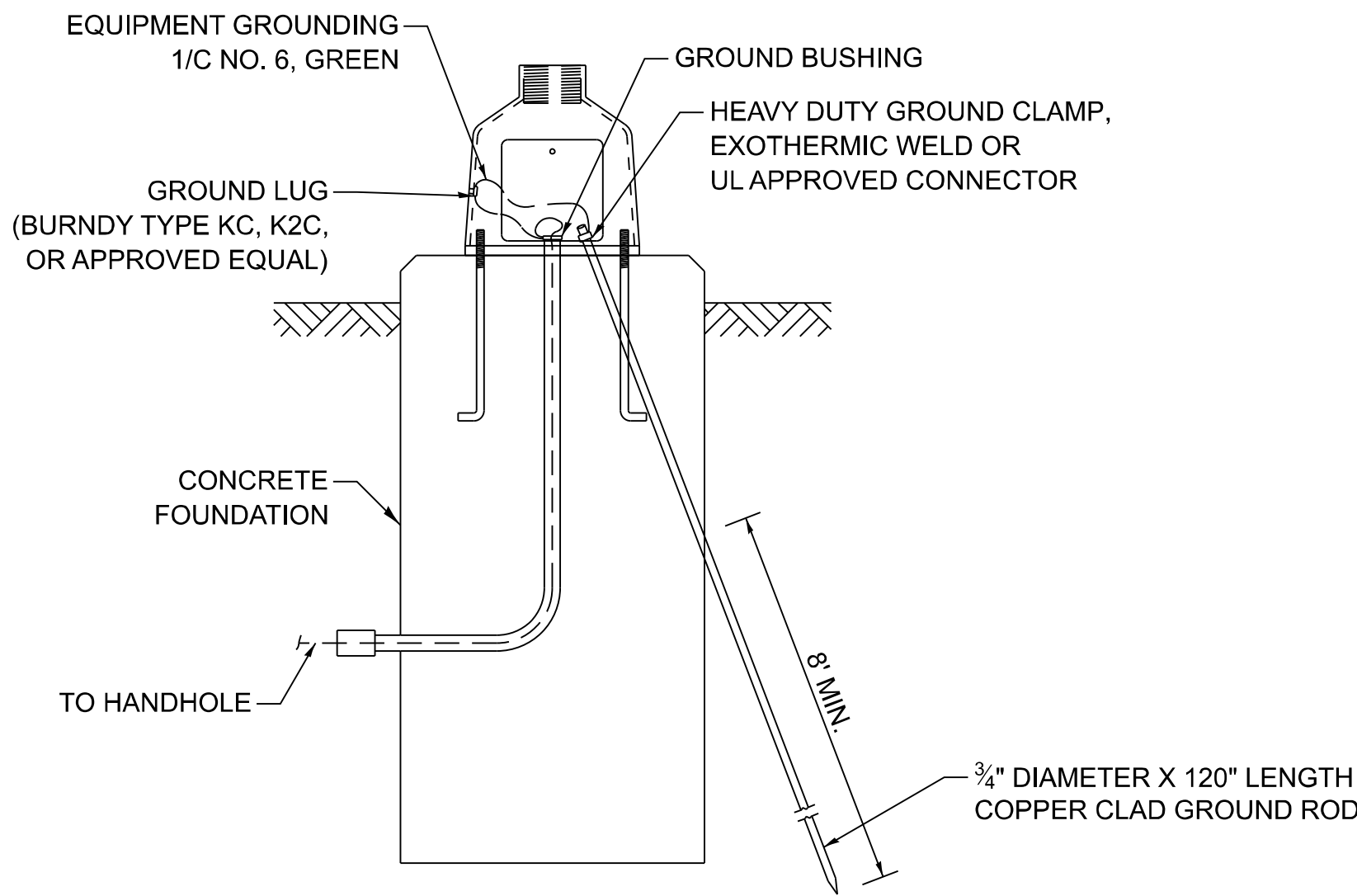
NOTES:

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.

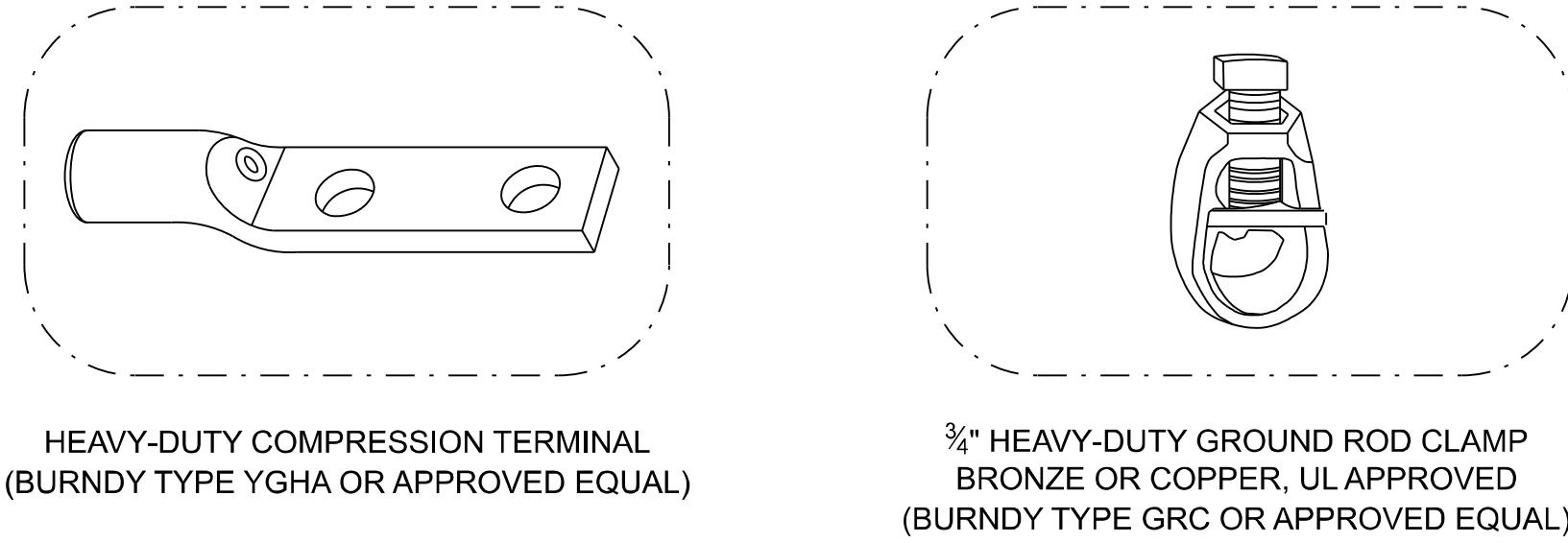
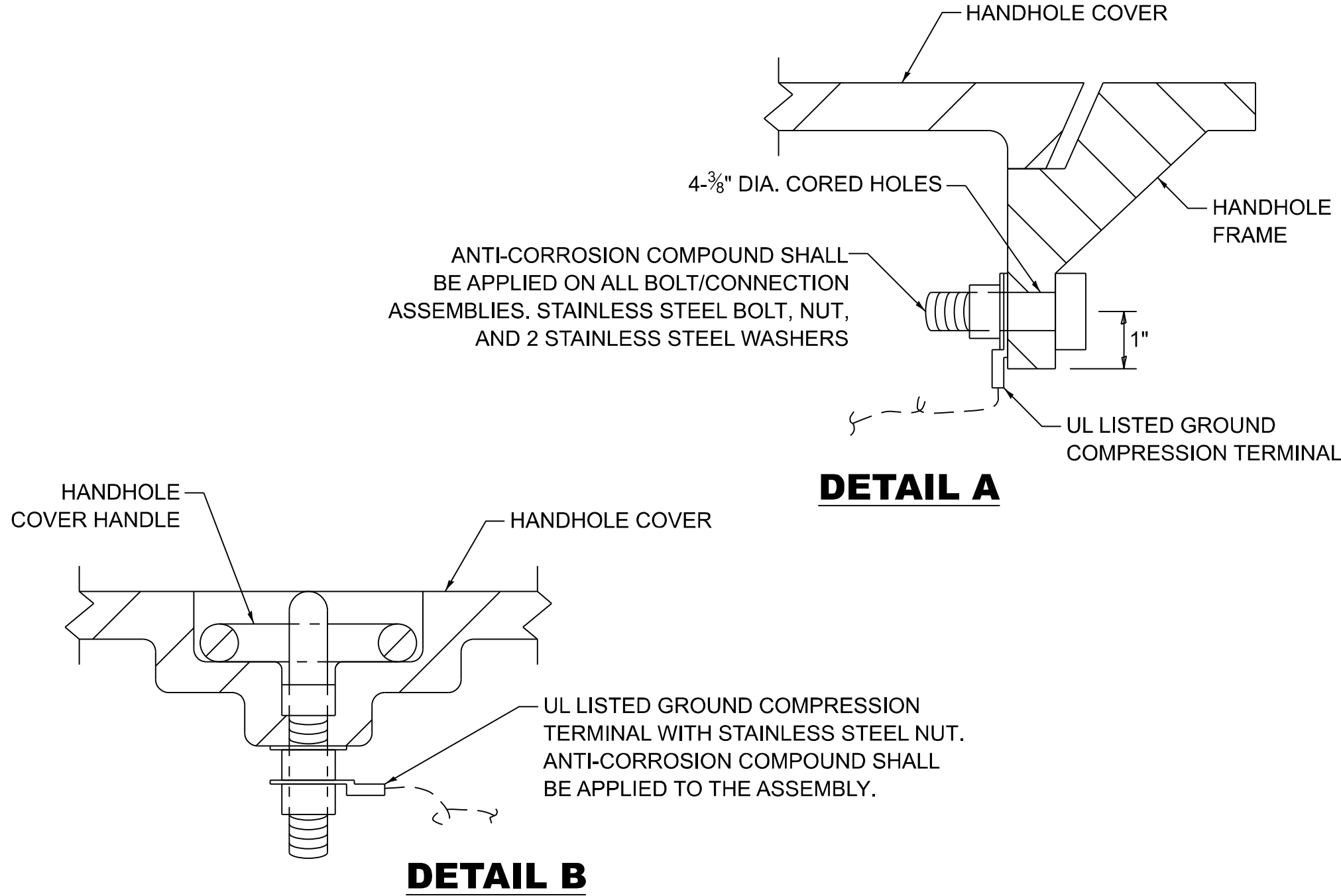
HANDHOLE TO INTERCEPT EXISTING CONDUIT



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

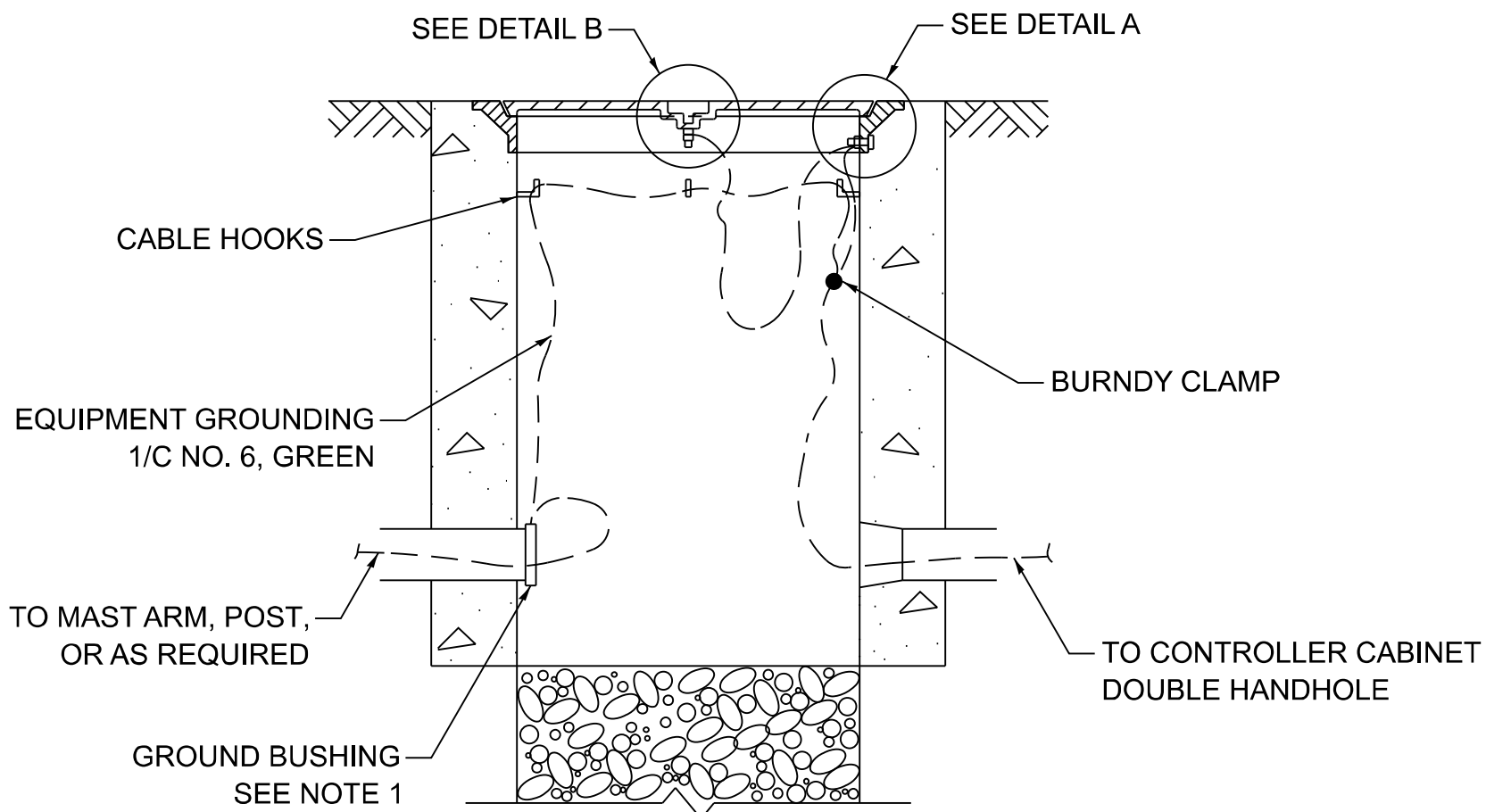


MAST ARM / POST GROUNDING DETAIL



NOTES:

1. CONDUIT THAT HAS BEEN DRILLED INTO AN EXISTING HANDHOLE WILL REQUIRE A GROUND BUSHING FOR THE CONDUIT TO BE PROPERLY GROUNDING.
2. GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' OF SLACK SHALL BE PROVIDED IN SINGLE AND DOUBLE HANDHOLES. 5' OF SLACK SHALL BE PROVIDED BETWEEN THE FRAME AND COVER.



HANDHOLE GROUNDING DETAIL

MODEL: TS-01f [Sheet]
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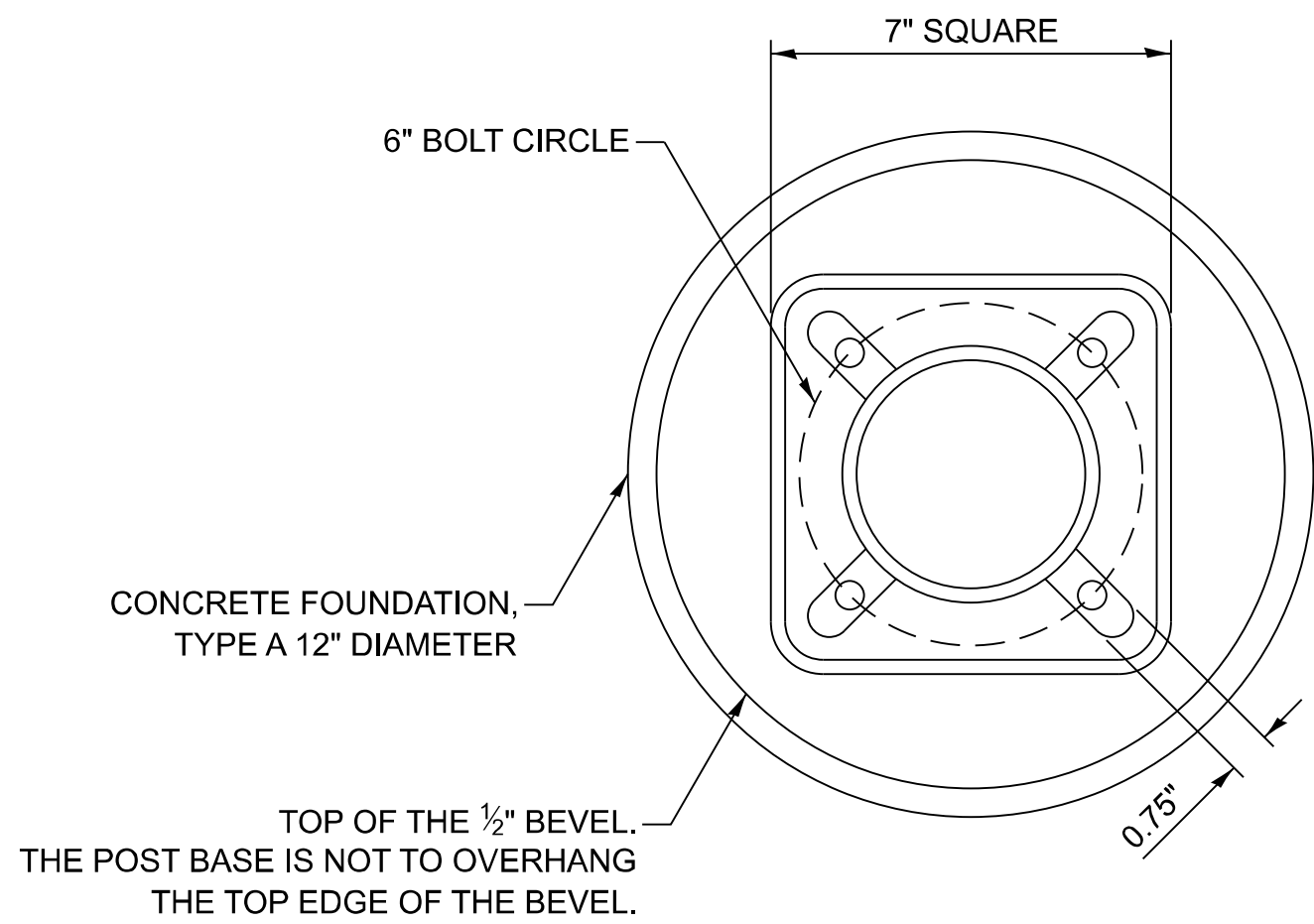
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		DRAWN	- IP	REVISED	-
		CHECKED	- NB/KK	REVISED	-
PLOT DATE	= 8/14/2026	DATE	- 10/15/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

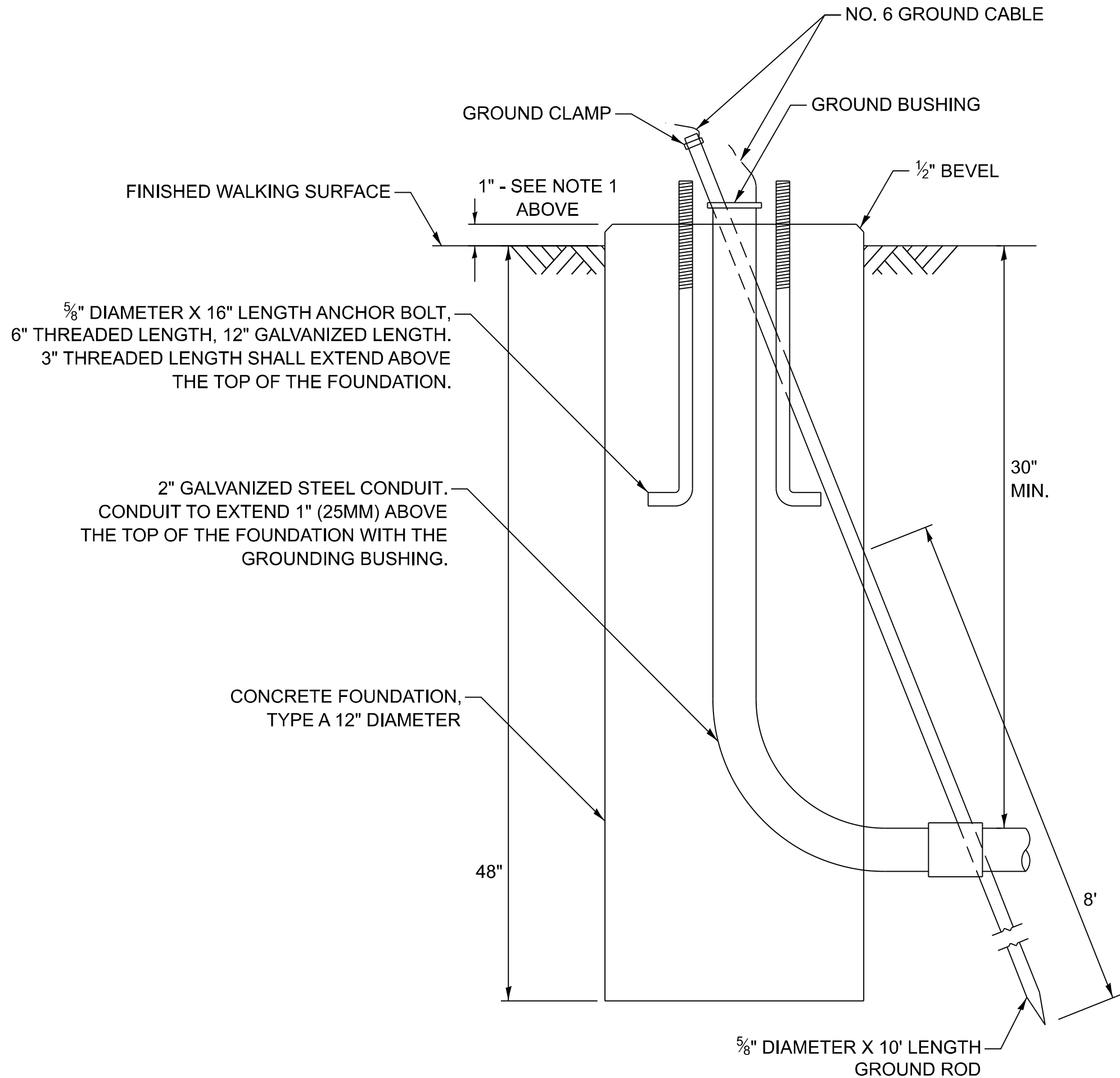
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	59
TS-01		CONTRACT NO. 80C62		
ILLINOIS		FED. AID PROJECT		



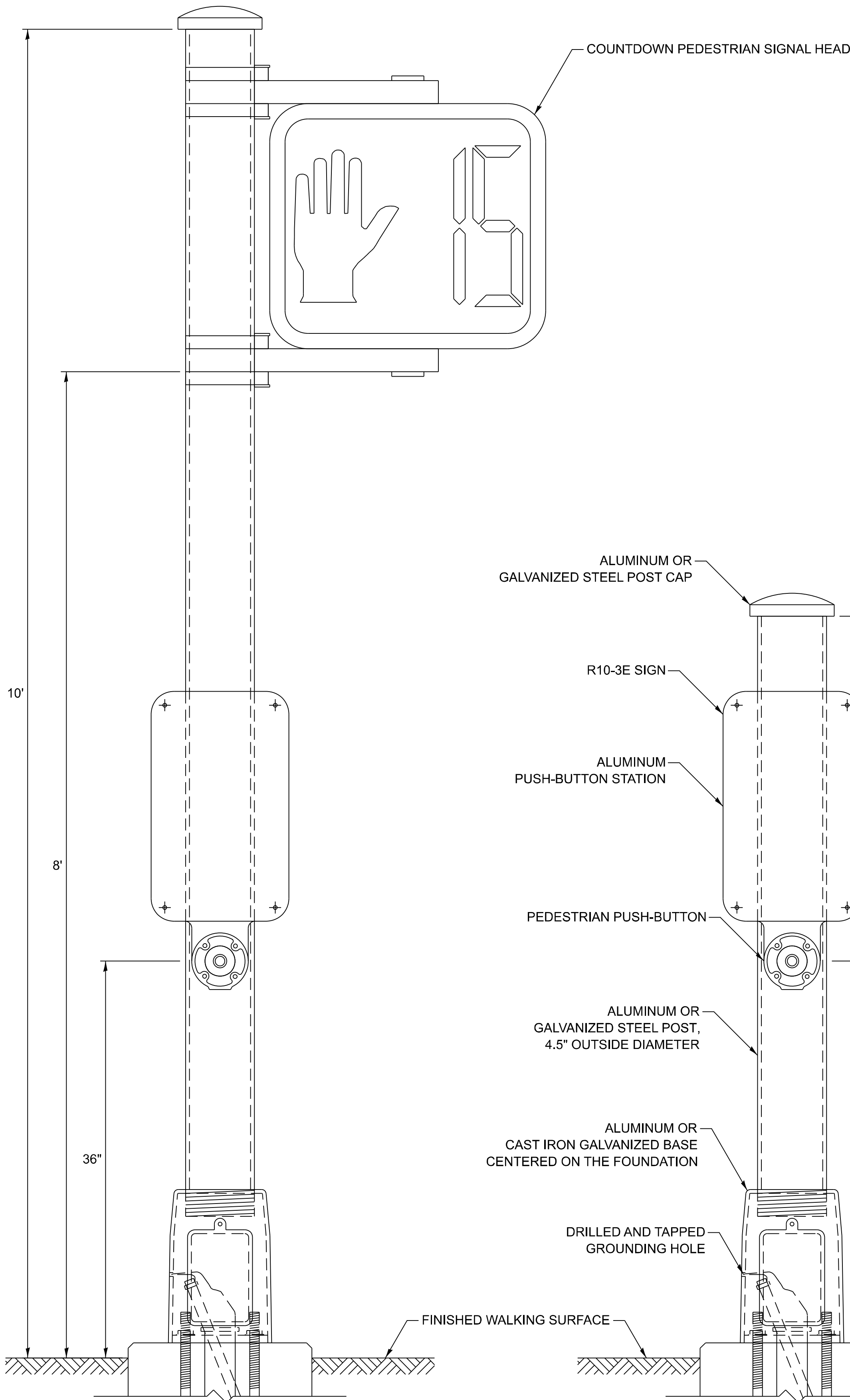
BOLT PATTERN

NOTES:

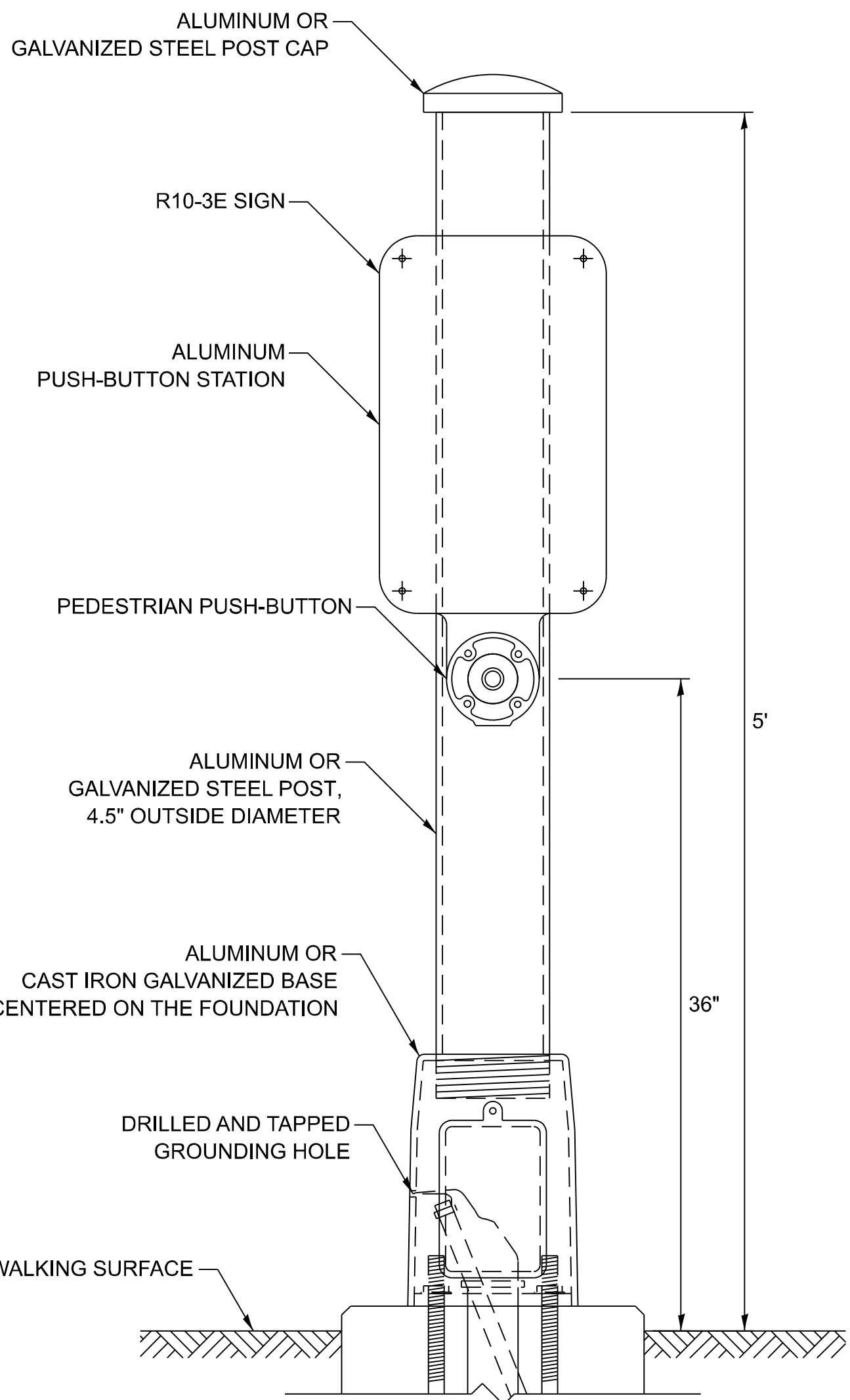
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN A SIDEWALK CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE SIDEWALK CURB.



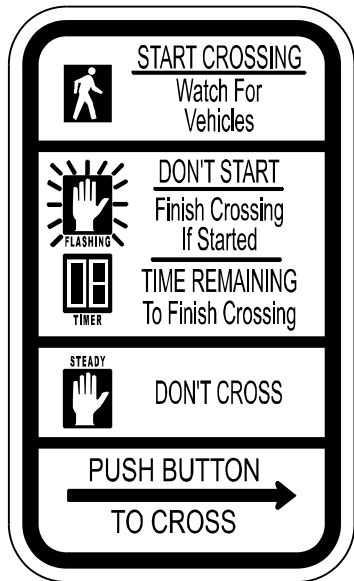
**CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER**



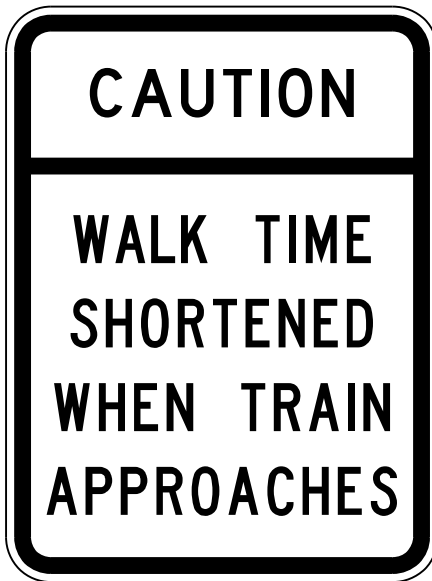
PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



R10-3E
9" X 15"



W10-1101
18" X 24"

SIGN NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. WHEN SIGN R10-3E IS INSTALLED AT MEDIANS WHERE ONLY ONE PUSH-BUTTON IS BEING USED FOR BOTH DIRECTIONS, THE ARROW SHALL BE BI-DIRECTIONAL.
3. SIGN W10-1101 IS REQUIRED FOR EACH PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS.

MODEL: TS-01a [Sheet]
FILE NAME: c:\p\work\pwr\illinois.gov_merit.jose\1166031D113826-shd-DistStd.dgn

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		DRAWN	- IP	REVISED	-
		CHECKED	- NB/KK	REVISED	-
PLOT DATE	= 8/14/2026	DATE	- 10/15/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

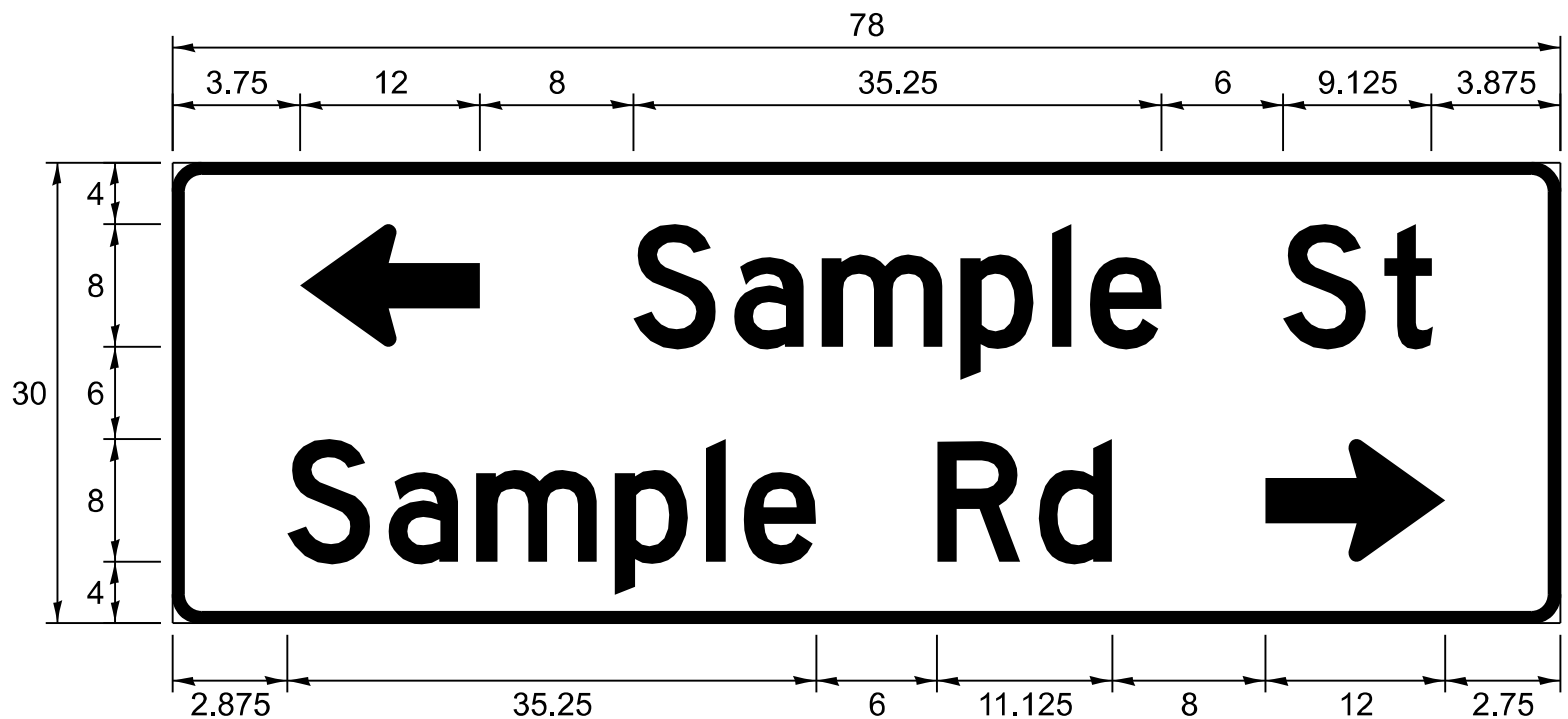
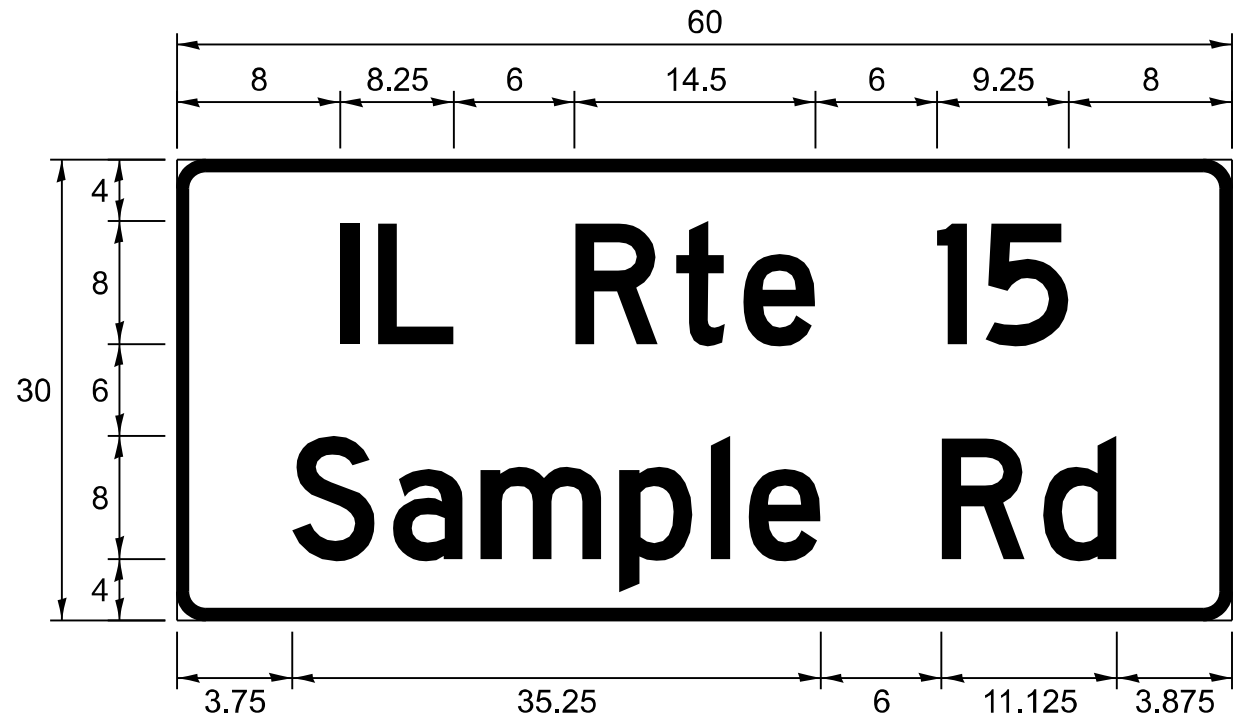
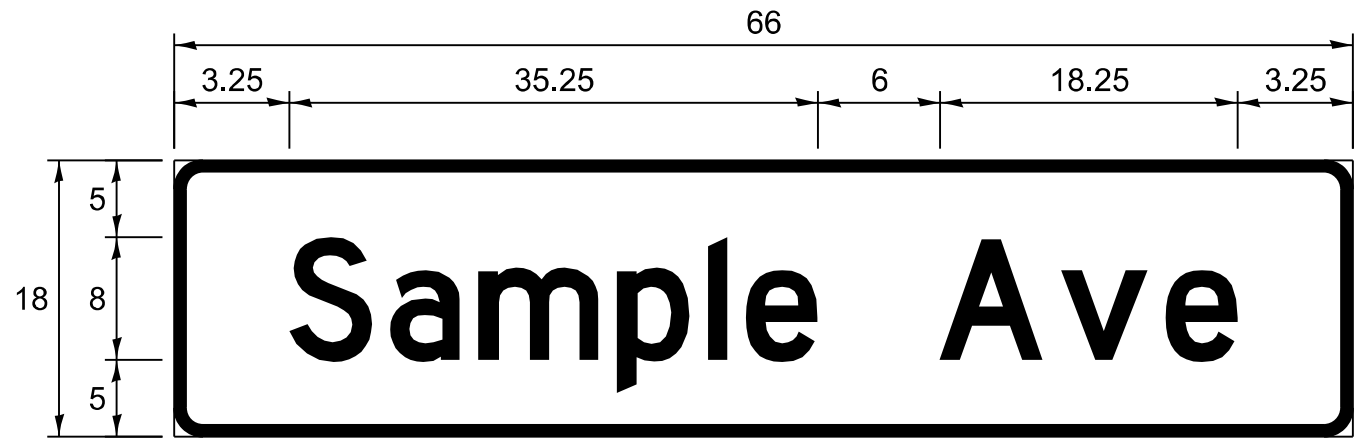
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2025-2116-RS,SW	LAKE	61	60
TS-01		CONTRACT NO. 80C62		
ILLINOIS		FED. AID PROJECT		

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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

COMMON STREET NAME ABBREVIATIONS

NAME	ABBREVIATION	LENGTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15	18.25
BOULEVARD	Blvd	17.125	20
CIRCLE	Cir	11.125	13
COURT	Ct	8.25	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22
ILLINOIS	IL	7	8.25
LANE	Ln	9.125	10.75
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.75
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.5
STREET	St	8	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.75	9.125
UNITED STATES	US	10.375	12.25

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 ONSTANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO 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", BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. THE SPACING BETWEEN THE LEFT OR RIGHT ARROW AND THE ADJACENT WORD SHOULD BE 8", BUT MAY BE REDUCED TO 6" 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.
- THE PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE THE SERIES "D" ALPHABET ON A ONE-LINE SIGN THAT IS 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 ONE-LINE 8'-0" SIGN, A 30" HEIGHT TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION (I.E. STREET, AVENUE, ETC.) SHALL 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 SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENTS 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)

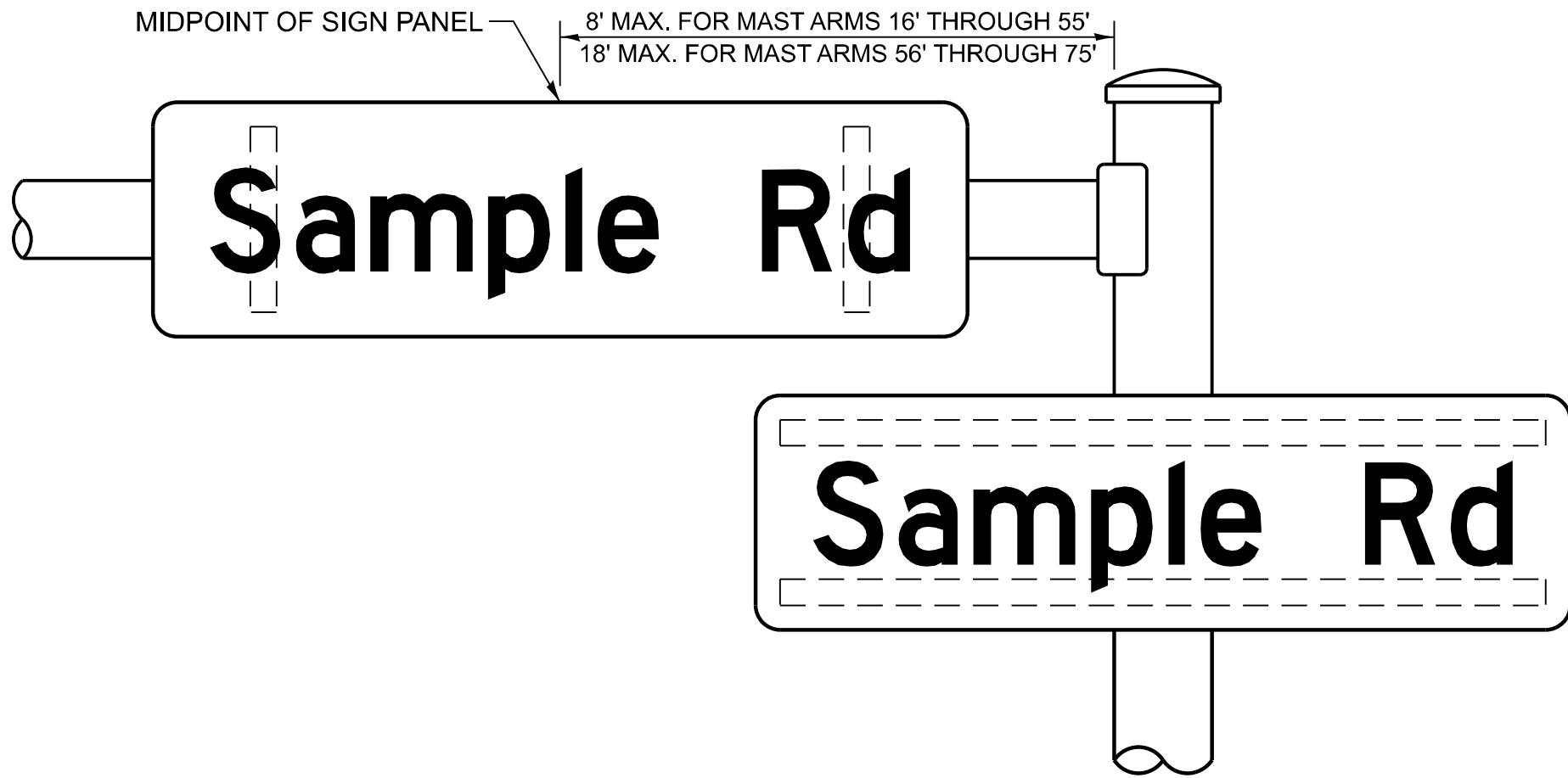
-SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER

-BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

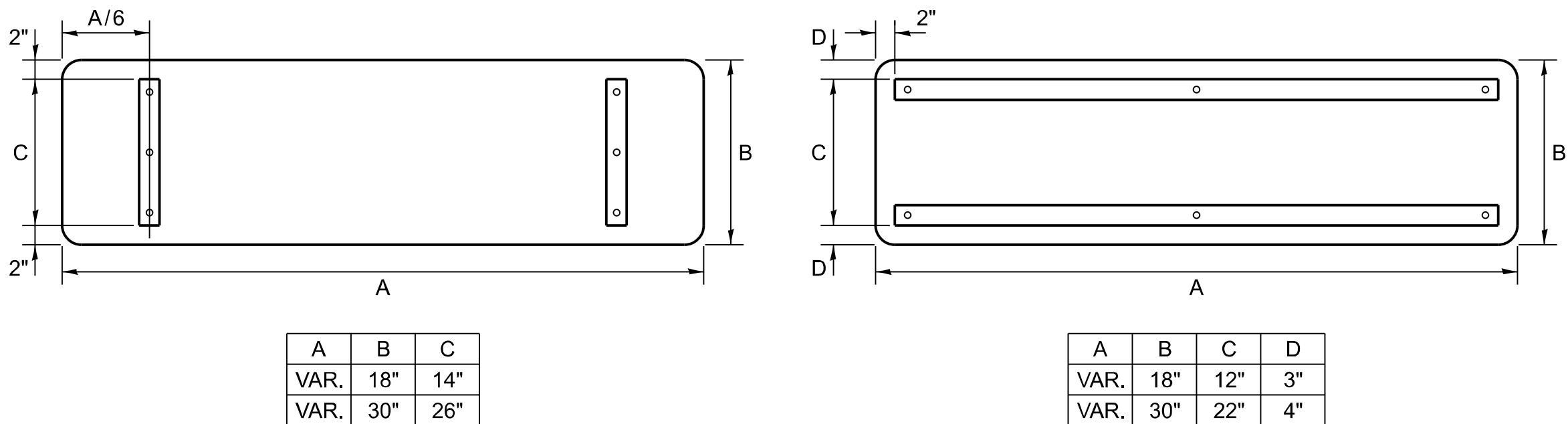
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATIONS

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

MEASUREMENTS BASED ON 8" UPPER CASE LETTER HEIGHT

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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		DRAWN - IP	REVISED -						2025-2116-RS,SW	LAKE	61	61
		CHECKED - NB/KK	REVISED -						TS-02			CONTRACT NO. 80C62
	PLOT DATE = 8/14/2026	DATE - 10/15/2025	REVISED -						ILLINOIS	FED. AID PROJECT		
SCALE: NONE		SHEET 1	OF 1	SHEETS	STA.	TO STA.						