

04-25-2025 LETTING ITEM 169

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	1
ILLINOIS CONTRACT NO. 62W69				
* 26 + 19 = 45 TOTAL SHEETS				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED
IN THE CITY OF AURORA

TRAFFIC DATA

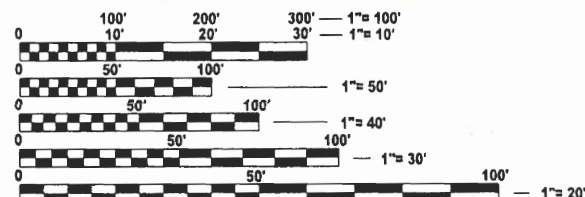
2023 ADT = 18900
POSTED SPEED = 25 MPH - 45 MPH

FAU ROUTE 2503: IL-25 (AURORA AVENUE)
NORTH OF CLEAR WATER DRIVE TO HAZEL AVENUE
SECTION: 2024-950-RS
PROJECT: NHPP-STP-KUYP(061)
STANDARD OVERLAY
KANE COUNTY
C-91-203-24

PROJECT ENDS
STA. 195+68

OMISSION
STA. 70+38 TO STA. 85+00
STA. 117+57 TO STA. 118+02

PROJECT BEGINS
STA. 17+50

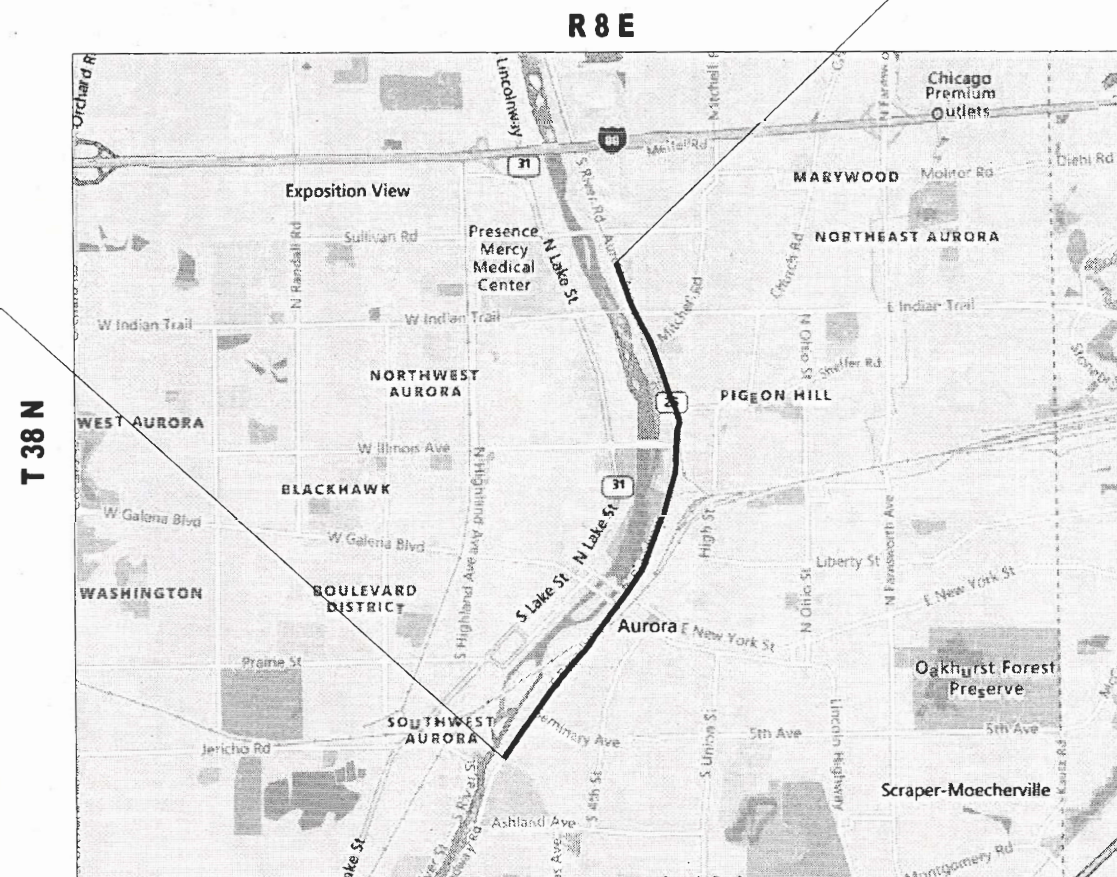


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580
PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62W69



AURORA TOWNSHIP

GROSS LENGTH = 17,818 FT. = 3.37 MILE
NET LENGTH = 16,311 FT. = 3.09 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 6 20 24

[Signature] REGIONAL ENGINEER

January 31 20 25

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

January 31 20 25

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

SHEET NO.

DESCRIPTION

STANDARD NO.

DESCRIPTION

11. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
12. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FILED BY THE ENGINEER.
13. ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATION SHALL BE COREECTED AT NO COST TO THE DEPARTMENT.
14. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
15. THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES BY STATION AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.
16. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
17. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKING ON FINAL SURFACES.
18. THE (ROAD CONSTRUCTION AHEAD) SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARD REMAIN WITHIN THE WORKZONE.
19. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN.
20. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
21. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERNTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2" INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH. WITH WRITTEN APPROVAL OF THE ENGINEER A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPE A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
22. OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.
23. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 108.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPERATE PAY ITEM HAS BEEN PROVIDED.



GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES, (48 HOURS NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF AURORA.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
5. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
6. THE RESIDENT ENGINEER SHALL CONTACT EMAD ALHUSSEINI AREA TRAFFIC FIELD TECHNICIAN. AT EMAD.ALHUSSEINI@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
7. ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE PROJECT LIMITS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM AND FOUNDATIONS AND VERIFYING THE MAST ARM LENGHTS.

GENERAL NOTES CONTINUE ON NEXT SHEET


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		DRAWN -	REVISED -					2503	2024-950-RS	KANE	26	2
		CHECKED -	REVISED -		CONTRACT NO. 62W69							
	PLOT DATE = 12/12/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	ROADWAY	DRAINAGE			
					80% FED 20% STATE (NHPP)	80% FED 20% STATE (STP)	100% STATE			
Code No.	Item	Unit	Total Quantity	0005	0005	0044				
20200100	EARTH EXCAVATION	CU YD	107	53.5	53.5					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	509	254.5	254.5					
25200110	SODDING, SALT TOLERANT	SQ YD	585	292.5	292.5					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	52496	26248	26248					
40600370	LONGITUDINAL JOINT SEALANT	FOOT	20800	10400	10400					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	120	60	60					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	680	340	340					
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	3210	1605	1605					
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	6536	3268	3268					
42001300	PROTECTIVE COAT	SQ YD	1285	642.5	642.5					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	8257	4128.5	4128.5					
42400800	DETECTABLE WARNINGS	SQ FT	675	337.5	337.5					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	77766	38883	38883					
44000600	SIDEWALK REMOVAL	SQ FT	8296	4148	4148					
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	170	85	85					
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	1560	780	780					
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	950	475	475					
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	1352	676	676					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	166	83	83					
56109210	WATER VALVES TO BE ADJUSTED	EACH	50	25	25					
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	160	80	80					

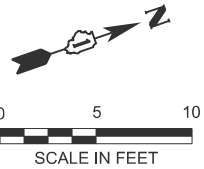
SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	ROADWAY	DRAINAGE			
					80% FED 20% STATE (NHPP)	80% FED 20% STATE (STP)	100% STATE			
Code No.	Item	Unit	Total Quantity	0005	0005	0044				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	35	17.5	17.5					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	2	2					
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.5	0.5					
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.5	0.5					
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	12	6	6					
67100100	MOBILIZATION	L SUM	1	0.5	0.5					
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.5	0.5					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.5	0.5					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.5	0.5					
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	0.5	0.5					
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	0.5	0.5					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5					
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5	0.5					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	110880	55440	55440					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	46200	23100	23100					
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	4380	2190	2190					
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	132000	66000	66000					
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	22200	11100	11100					
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	1500	750	750					
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	9000	4500	4500					
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	3900	1950	1950					

 REVISED SHEET 4/14/2025

* = SPECIALTY ITEM Δ = NON-PARTICIPATING ITEM

	USER NAME = Fritz.Guillaume	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES					F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		IL-25 (AURORA AVENUE) N. OF CLEAR WATER DR TO HAZEL AVENUE					2503	2024-950-RS	KANE	26	3
		CHECKED -	REVISED -							CONTRACT NO. 62W69				
	PLOT DATE = 12/13/2024	DATE -	REVISED -		SCALE:	SHEET 1	OF 2	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES					TYPE CODE						SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN						URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	ROADWAY	DRAINAGE														
					80% FED 20% STATE (NHPP)	80% FED 20% STATE (STP)	100% STATE												80% FED 20% STATE (NHPP)		
	Code No.	Item	Unit	Total Quantity	0005	0005	0044					Code No.	Item	Unit	Total Quantity	0005	0005	0044	0021		
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	27720	13860	13860						Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5				
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1460	730	730						Ø	Z0076600	TRAINEES	HOUR	500	500				
												Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500				
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	44000	22000	22000							25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1	0.5	0.5			
													25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1	0.5	0.5			
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	7400	3700	3700							25200200	SUPPLEMENTAL WATERING	UNIT	4	2	2			
													31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	4	2	2			
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	500	250	250							35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	4	2	2			
													40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-95, MIX "D", N50	TON	1	0.5	0.5			
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3000	1500	1500							44000300	CURB REMOVAL	FOOT	38	19	19			
													44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	497	248.5	248.5			
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1300	650	650							60600605	CONCRETE CURB, TYPE B	FOOT	160	80	80			
													60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	305	152.5	152.5			
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1250	625	625							Z0076604	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	192	96	96			
													81028200	UNDERGROUND, GALVANIZED STEEL, 2" DIA.	FOOT	204				204	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1220	610	610							81028240	UNDERGROUND, GALVANIZED STEEL, 4" DIA.	FOOT	247				247	
													81400200	HEAVY-DUTY HANDHOLE	EACH	4				4	
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	25760	12880	12880							85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2				2	
													87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	633				633	
	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	0.5	0.5							87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	199				199	
													87301305	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 1 PAIR	FOOT	1050				1050	
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	40	20	20							87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	90				90	
													87900200	DRILL EXISTING HANDHOLE	EACH	13				13	
	X4400223	CURB REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	3360	1680	1680							88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8				8	
													88500100	INDUCTIVE LOOP DETECTOR	EACH	5				5	
	X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQ UAL TO 10 FEET	FOOT	2088	1044	1044							88600100	DETECTOR LOOP, TYPE 1	FOOT	1143				1143	
													89502200	MODIFY EXISTING CONTROLLER	EACH	1				1	
	X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	5548	2774	2774							89502300	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	536				536	
													89502375	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	EACH	2				2	
	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	3000			3000						89502376	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	EACH	4				4	
													X1400367	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	EACH	2				2	
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	126	63	63							X1400378	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	EACH	2				2	
													X8760200	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	EACH	12				12	
	X6700407	ENGINEER'S FIELD OFFICE, TYPEA (D1)	CAL MO	12	6	6							X8780012	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	16				16	
*	X8860105	DETECTOR LOOP REPLACEMENT	FOOT	100	50	50							Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2				2	
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	160			160														
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	25.7	25.7															
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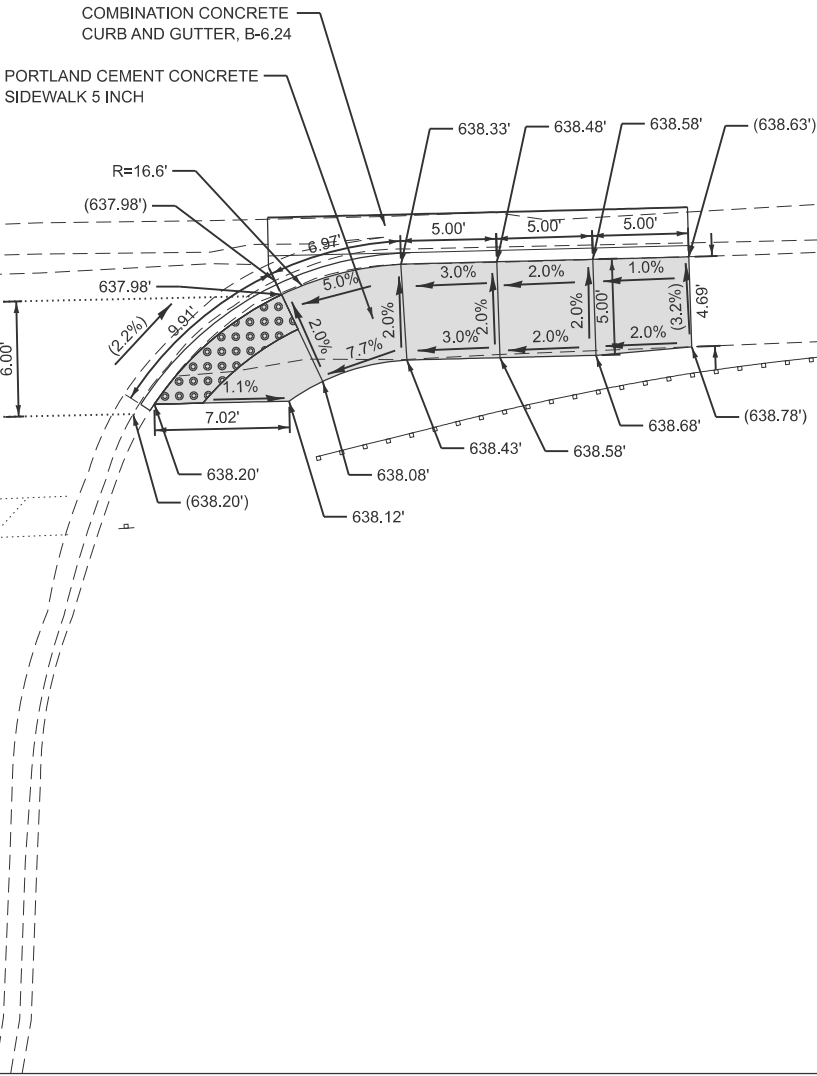
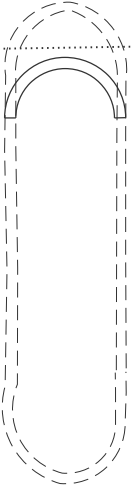
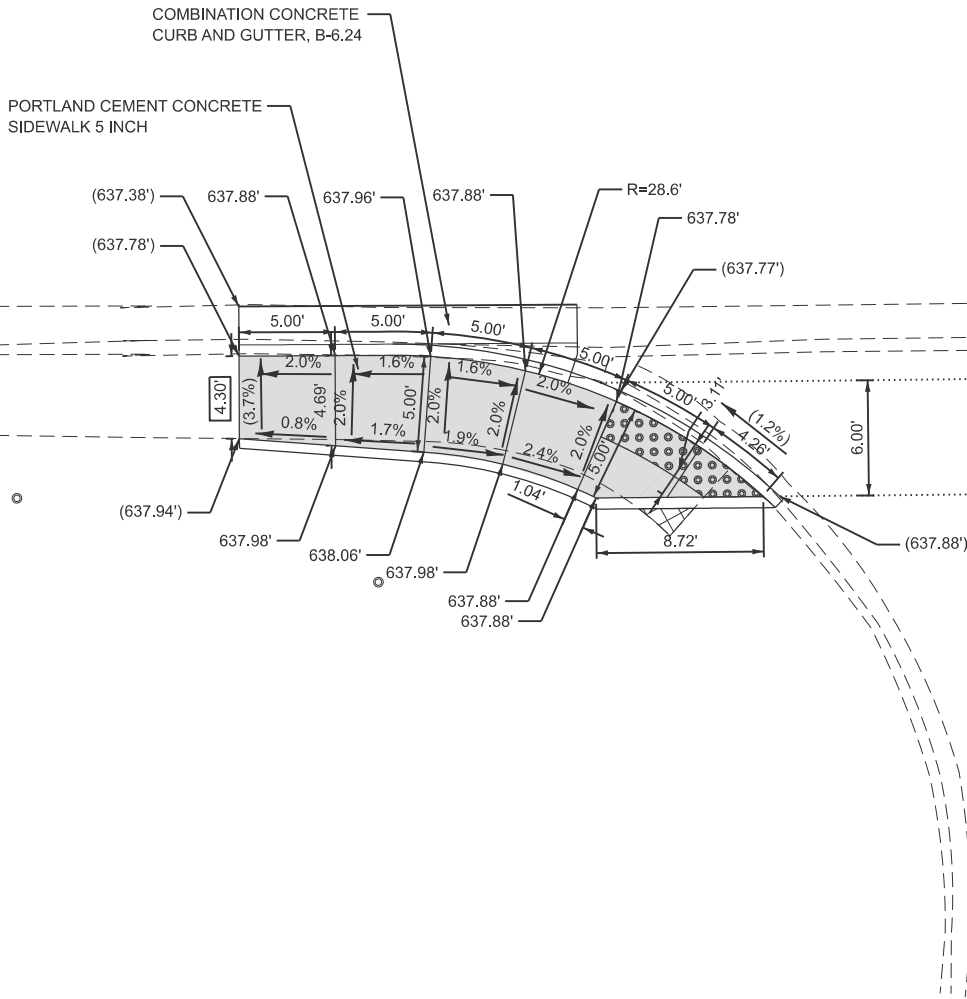


IL ROUTE 25

117

116

PI STA 116+91.24



LEGEND

xx.xx'

EXISTING LENGTH

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PROPOSED SIDE CURB

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EXISTING ELEVATION/SLOPE



DETECTABLE WARNINGS



SIDEWALK REMOVAL



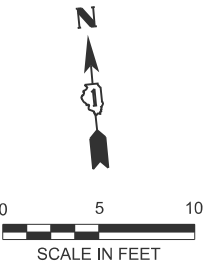
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	CHECKED - KE	REVISED -
	DATE - 3/12/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

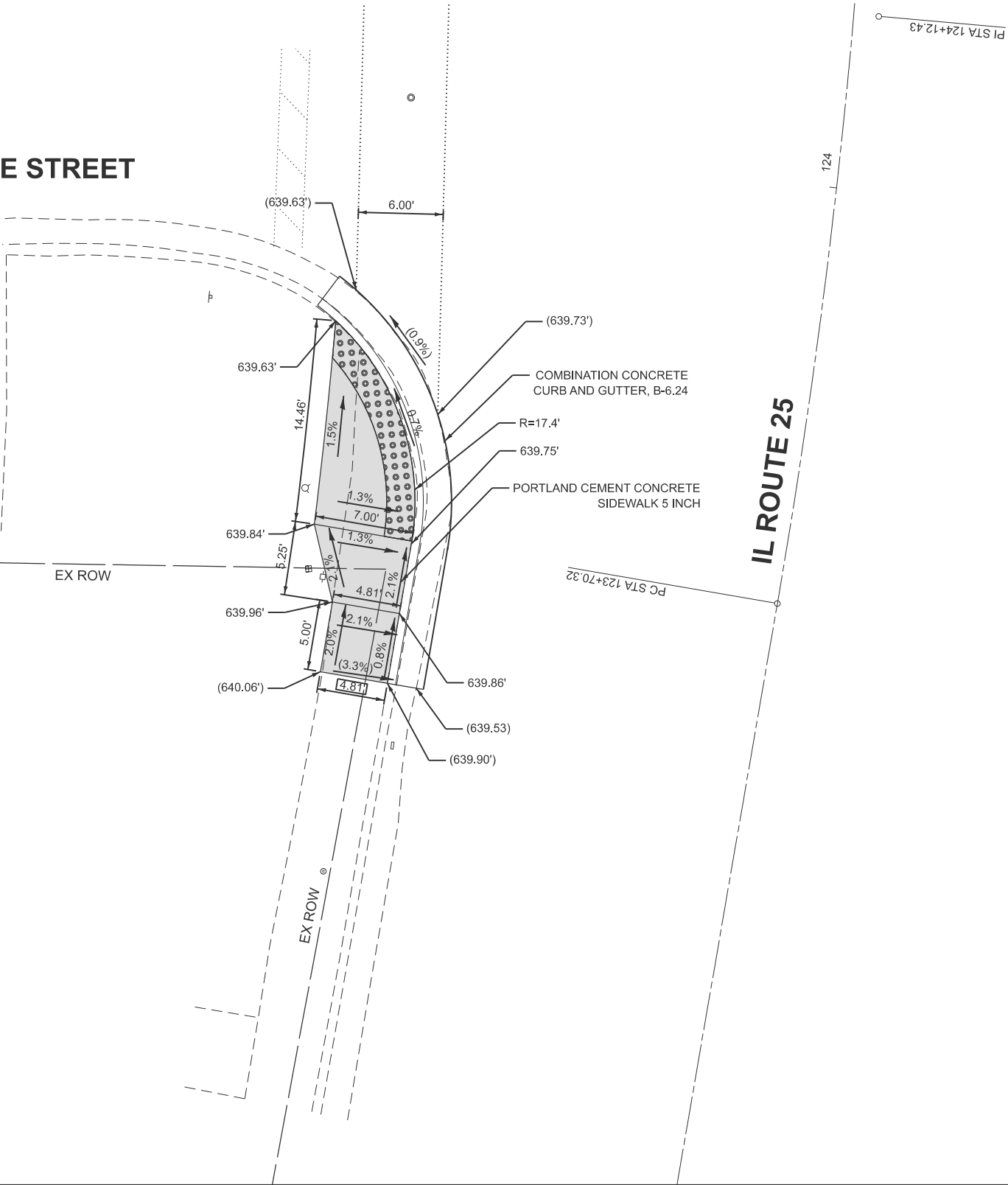
IL ROUTE 25 (BROADWAY STREET)
AT POST OFFICE ENTRANCE CURB RAMP DETAILS

SCALE: 1"=5' SHEET 5 OF 10 SHEETS STA. TO STA.

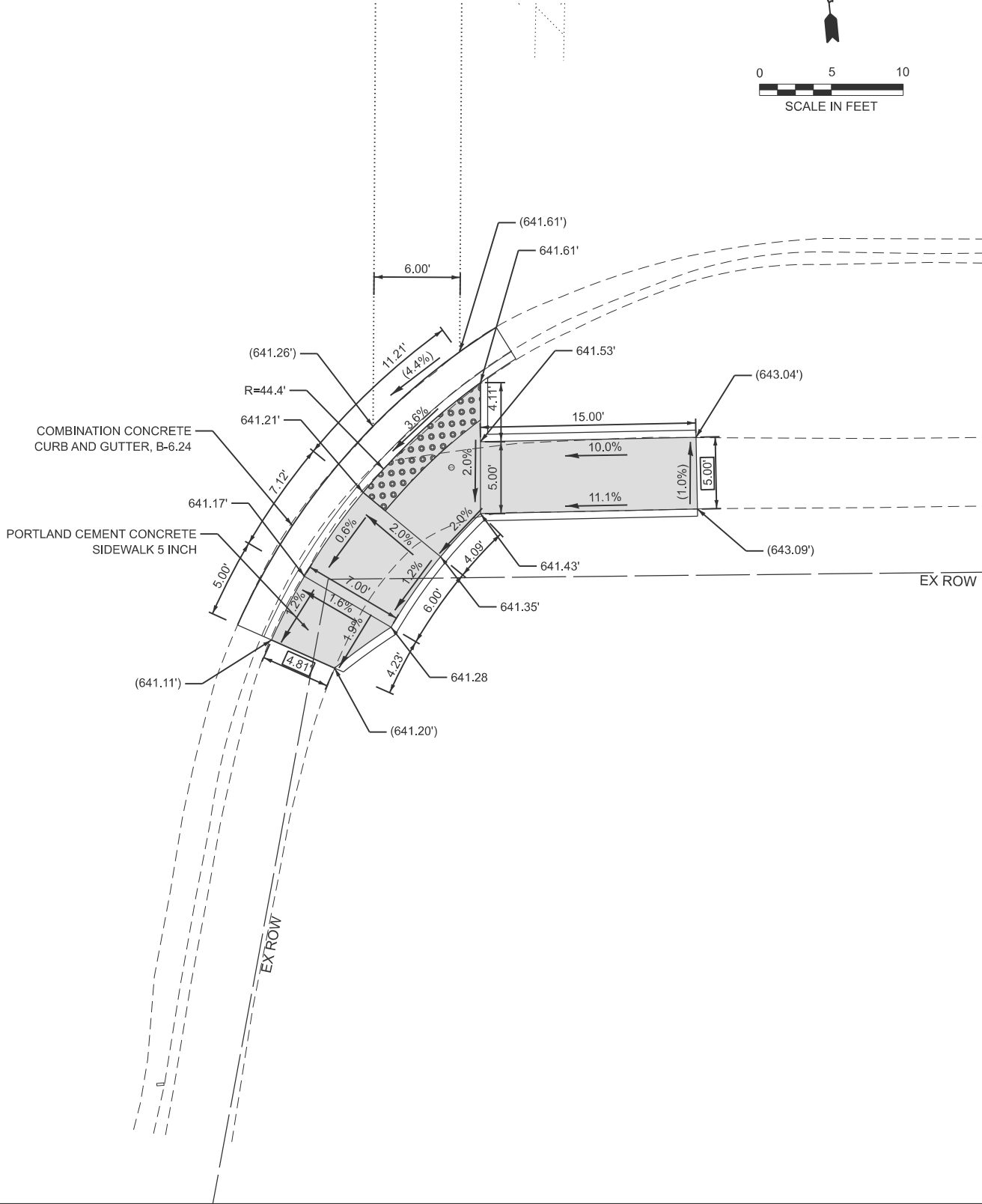
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13A
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				



PIERCE STREET



IL ROUTE 25



LEGEND

xx.xx'

EXISTING LENGTH

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



DETECTABLE WARNINGS



SIDEWALK REMOVAL



MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\drms09620\0162\69-border-road.dgn



USER NAME = USAT719599
PLOT DATE = 2/14/2025

DESIGNED - AT
DRAWN - AT
CHECKED - KE
DATE - 3/12/2025

REVISED - 4/10/2025
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

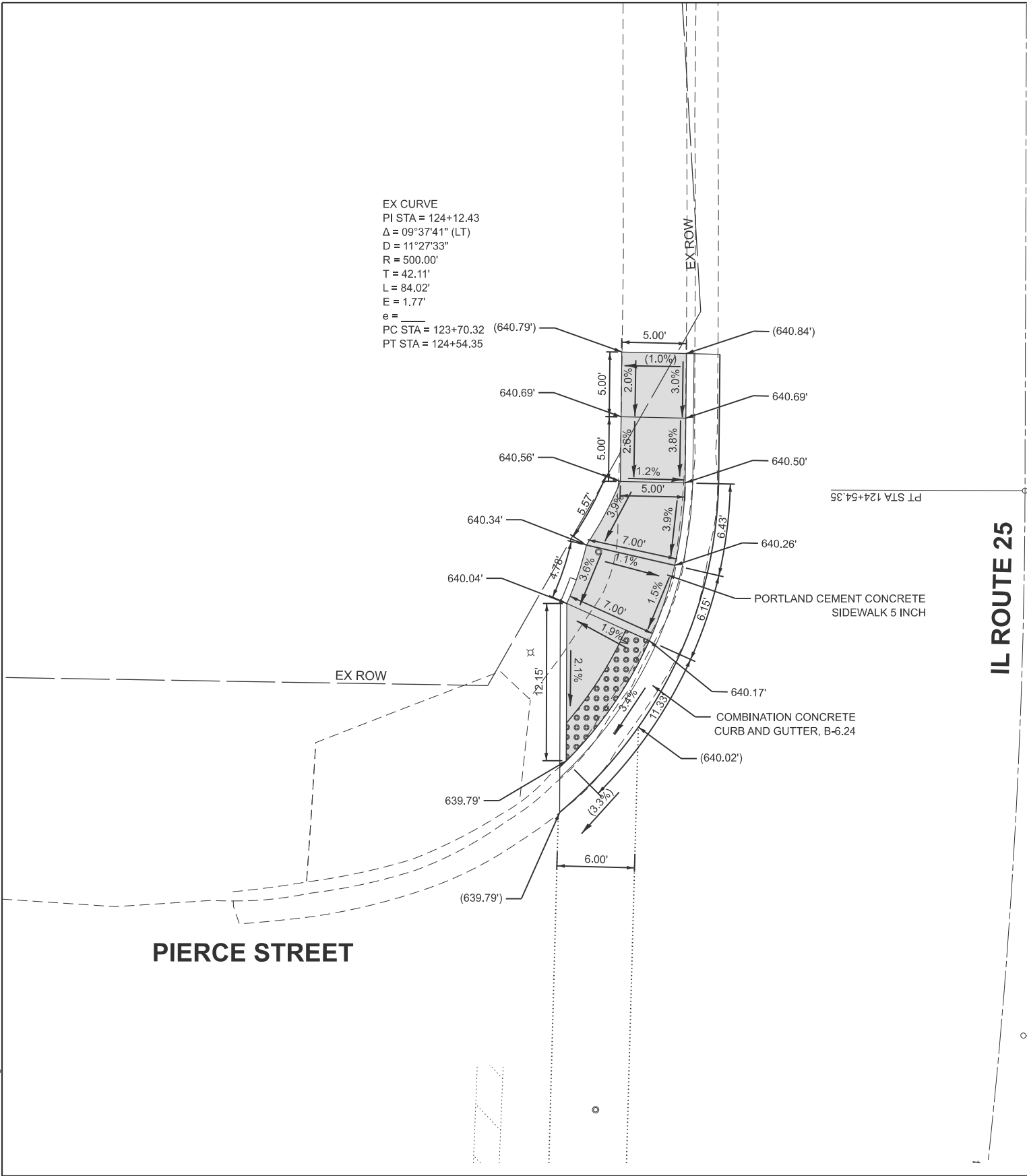
IL ROUTE 25 (BROADWAY STREET)
AT PIERCE STREET CURB RAMP DETAILS

SCALE: 1"=5'

SHEET 6 OF 10 SHEETS STA. TO STA.

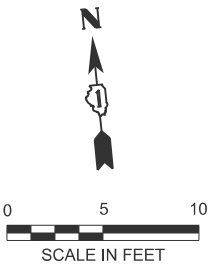
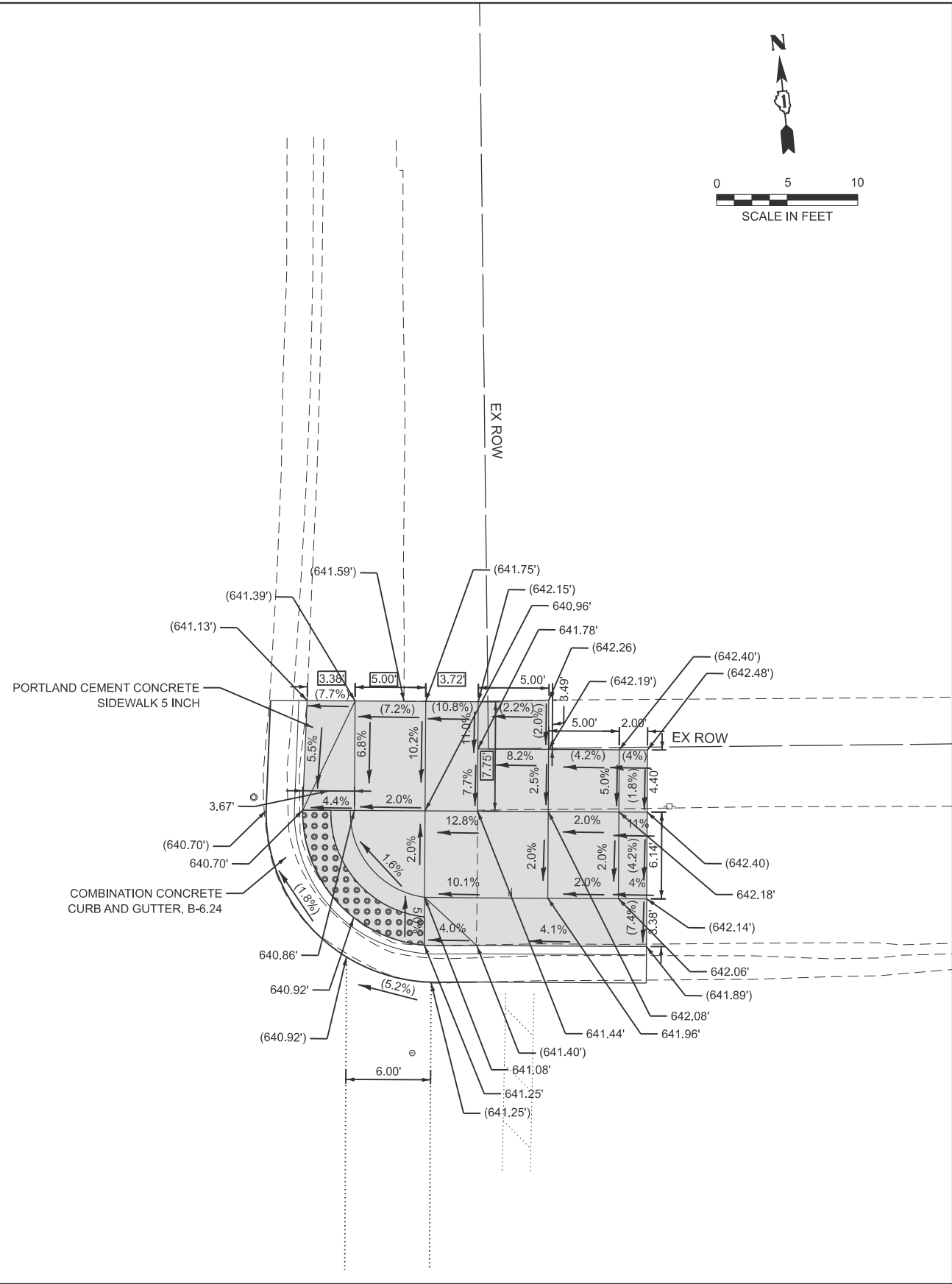
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13B
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				

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IL ROUTE 25

PI STA 124+12.43



LEGEND

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



DETECTABLE WARNINGS



SIDEWALK REMOVAL

NOTES:

- SIDEWALK IS DESIGNED TO THE MAXIMUM EXTENT FEASIBLE (MEF).



USER NAME = USAT719599

DESIGNED - AT

REVISED - 4/10/2025

DRAWN - AT

REVIS

REVISED -

CHECKED - KE

REVIS

REVISED -

PLOT DATE = 2/14/2025

DATE - 3/12/2025

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

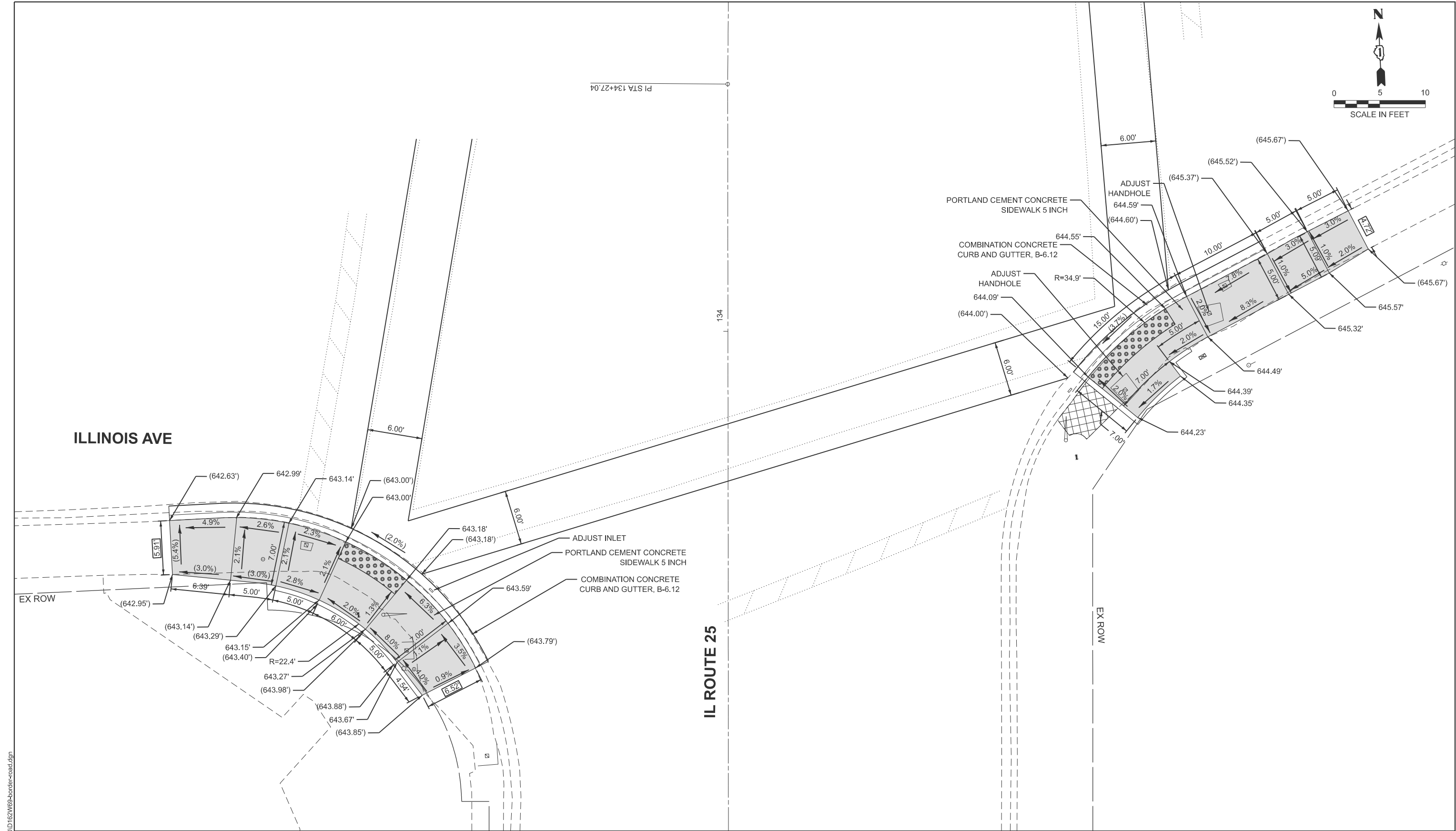
IL ROUTE 25 (BROADWAY STREET)
AT PIERCE STREET CURB RAMP DETAILS

SCALE: 1"=5'

SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13C
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\drms0620\0162\69-border-road.dgn



USER NAME	= USAT719599	DESIGNED	- AT	REVISED	- 4/10/2025
		DRAWN	- AT	REVISED	-
		CHECKED	- KE	REVISED	-
PLOT DATE	= 2/14/2025	DATE	- 3/12/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

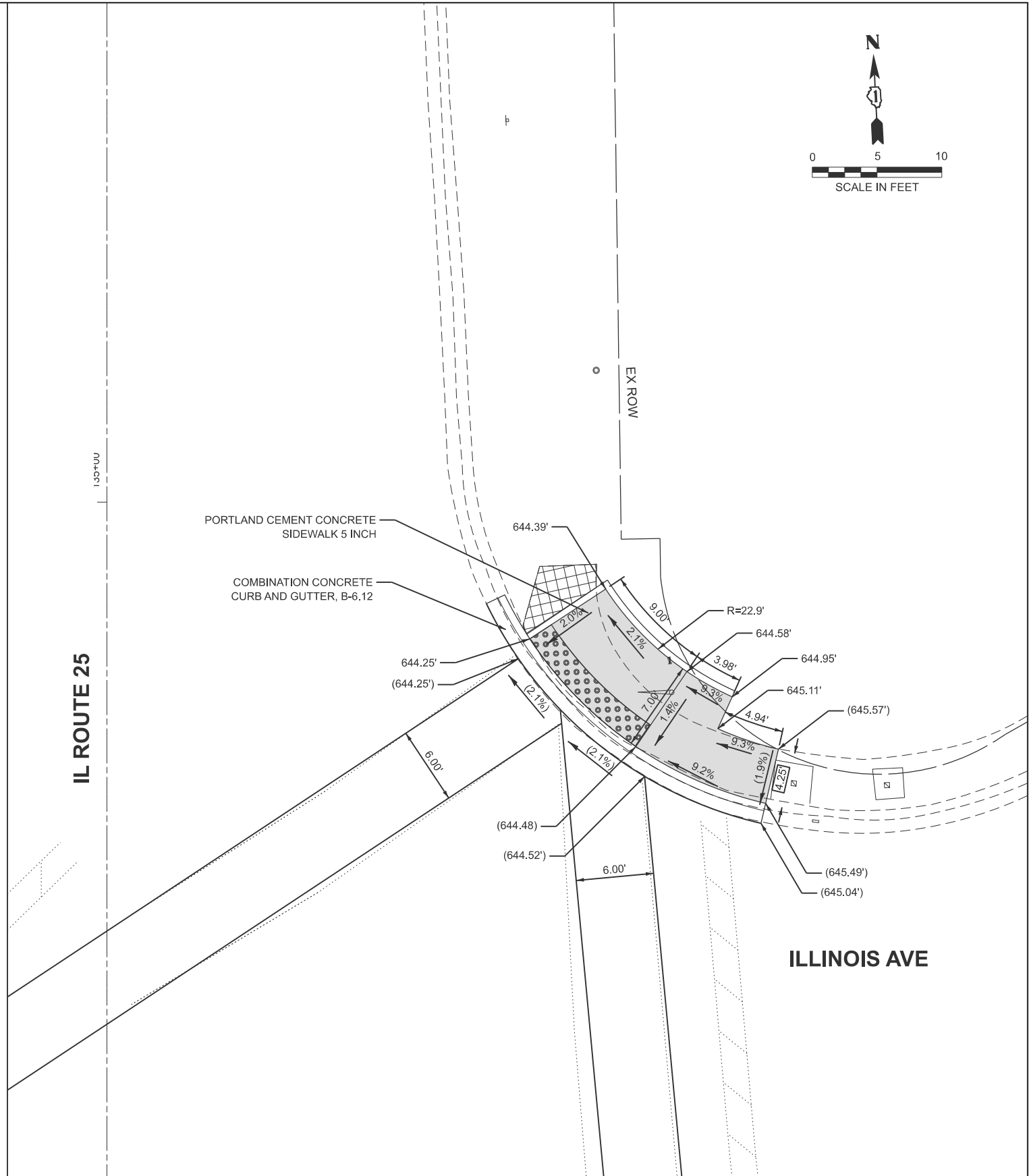
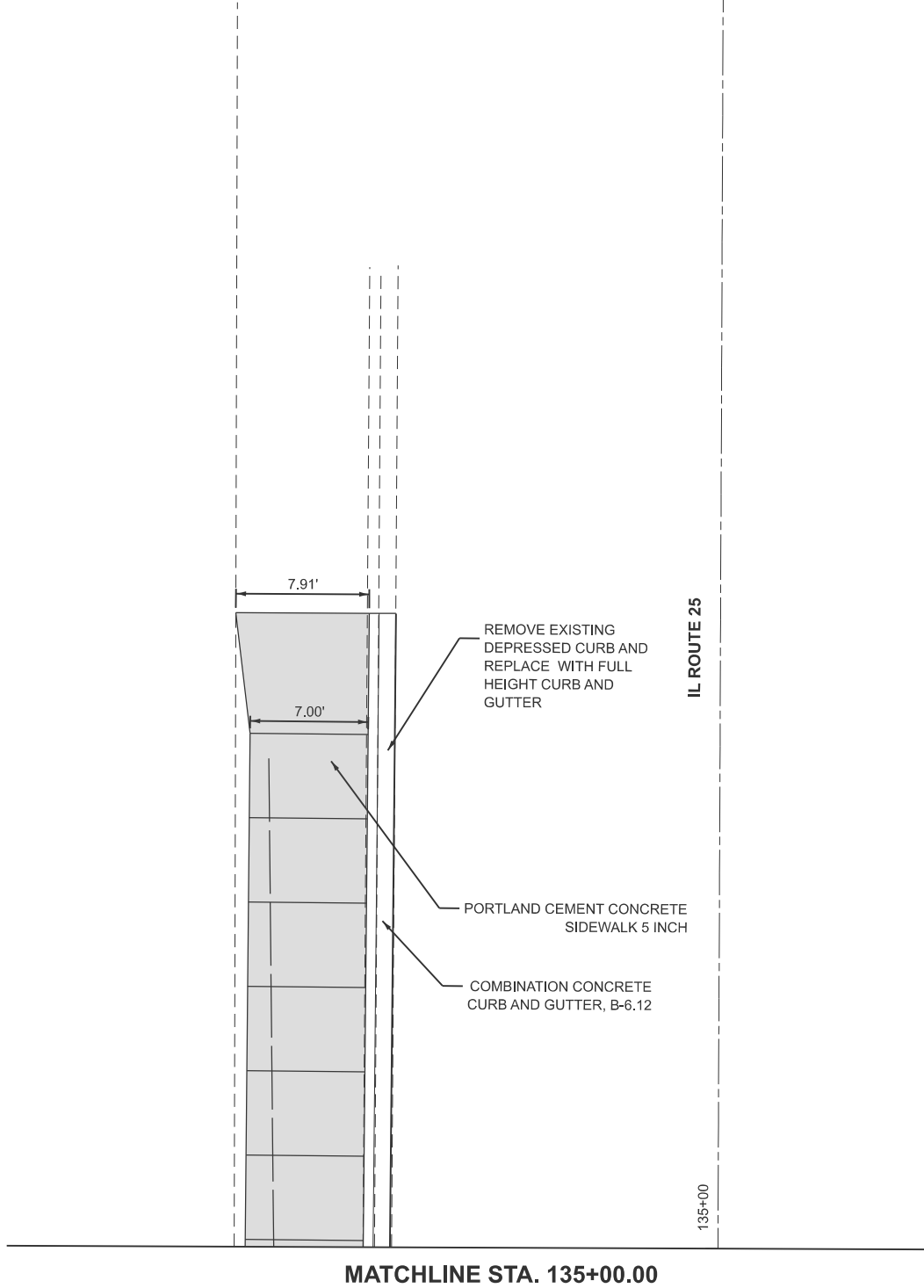
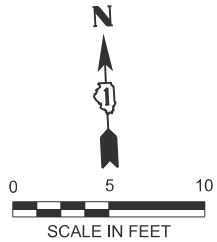
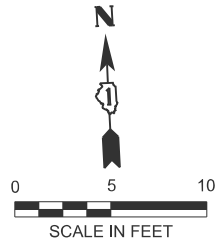
IL ROUTE 25 (BROADWAY STREET)
AT ILLINOIS AVENUE CURB RAMP DETAILS

SCALE: 1"=5'

SHEET 8 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13D
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				





LEGEND

xx.xx'

EXISTING LENGTH

()

PROPOSED SIDE CURB

EXISTING ELEVATION/SLOPE



DETECTABLE WARNINGS



SIDEWALK REMOVAL

NOTES:

1. PEDESTRIAN PUSH BUTTON LOCATION PROVIDED ON TRAFFIC SIGNAL PLANS



MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\rms09620\0162\69-border-road.dgn



USER NAME	= USAT719599	DESIGNED	- AT	REVISED	- 4/10/2025
		DRAWN	- AT	REVISED	-
		CHECKED	- KE	REVISED	-
PLOT DATE	= 2/14/2025	DATE	- 3/12/2025	REVISED	-



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 25 (BROADWAY STREET)
AT ILLINOIS AVENUE CURB RAMP DETAILS

SCALE: 1"=5'

SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13F
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				

REMOVE AND RELOCATION NOTES:

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

- 4 EACH PEDESTRIAN PUSH-BUTTONS
6 EACH PEDESTRIAN SIGNAL HEADS

NOTES:

1. THE CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.
2. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
3. APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
5. ALL PUSH-BUTTONS SHALL BE APS.
6. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
7. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
8. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.



SOUTHWEST CORNER



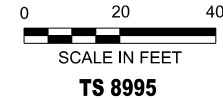
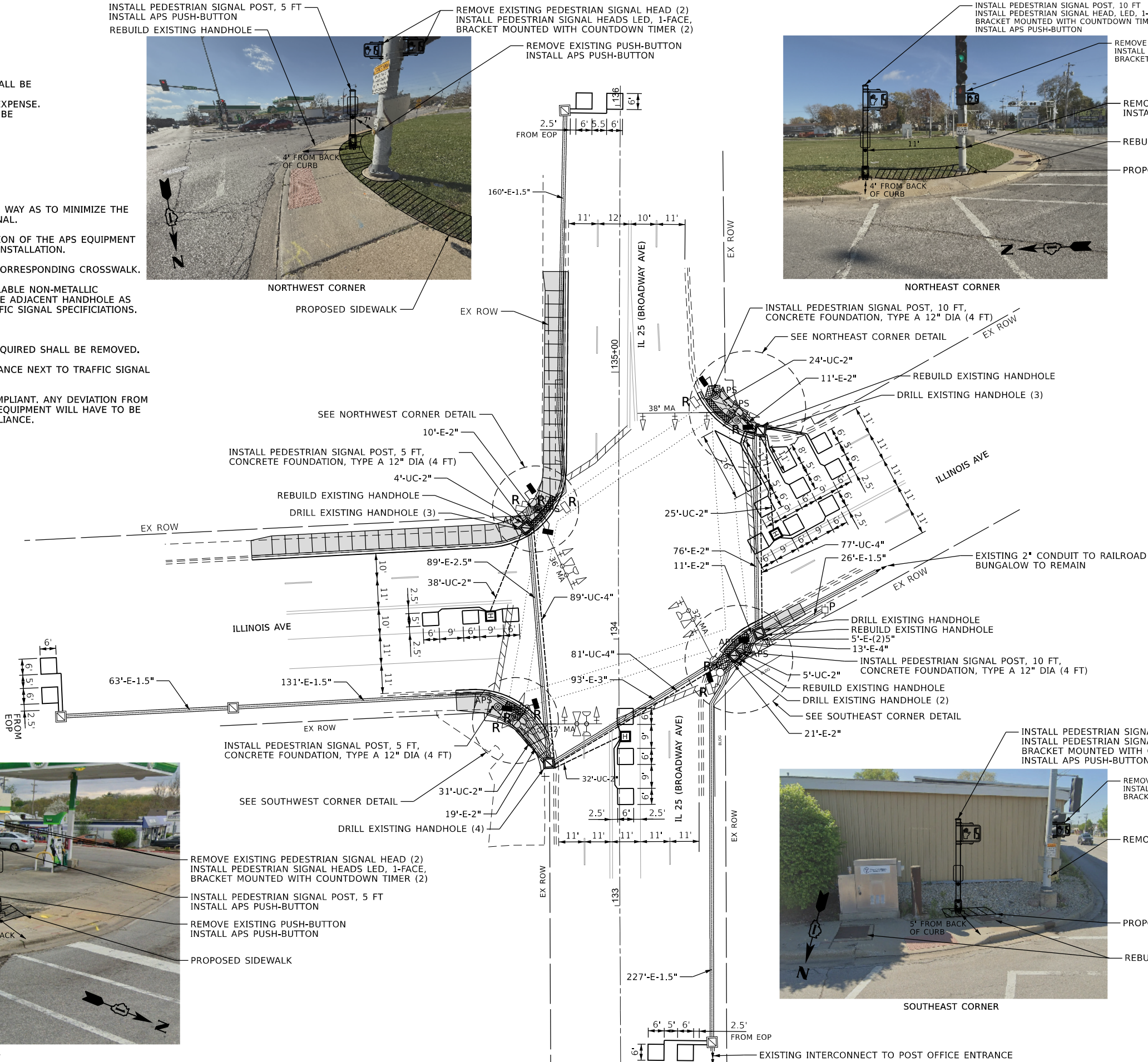
NORTHWEST CORNER



NORTHEAST CORNER



SOUTHEAST CORNER



TS 8995

MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\ms09620\0117024-border-TS.dgn



USER NAME	= USPS706128	DESIGNED -	STSG	REVISED -	4/10/2025
		DRAWN -	STSG	REVISED -	
		CHECKED -	MJM	REVISED -	
PLOT DATE	= 3/11/2025	DATE	= 3/12/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 25 (BROADWAY AVE) AND ILLINOIS AVE

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13G
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\trms09820\0117024-border-TS.dgn

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

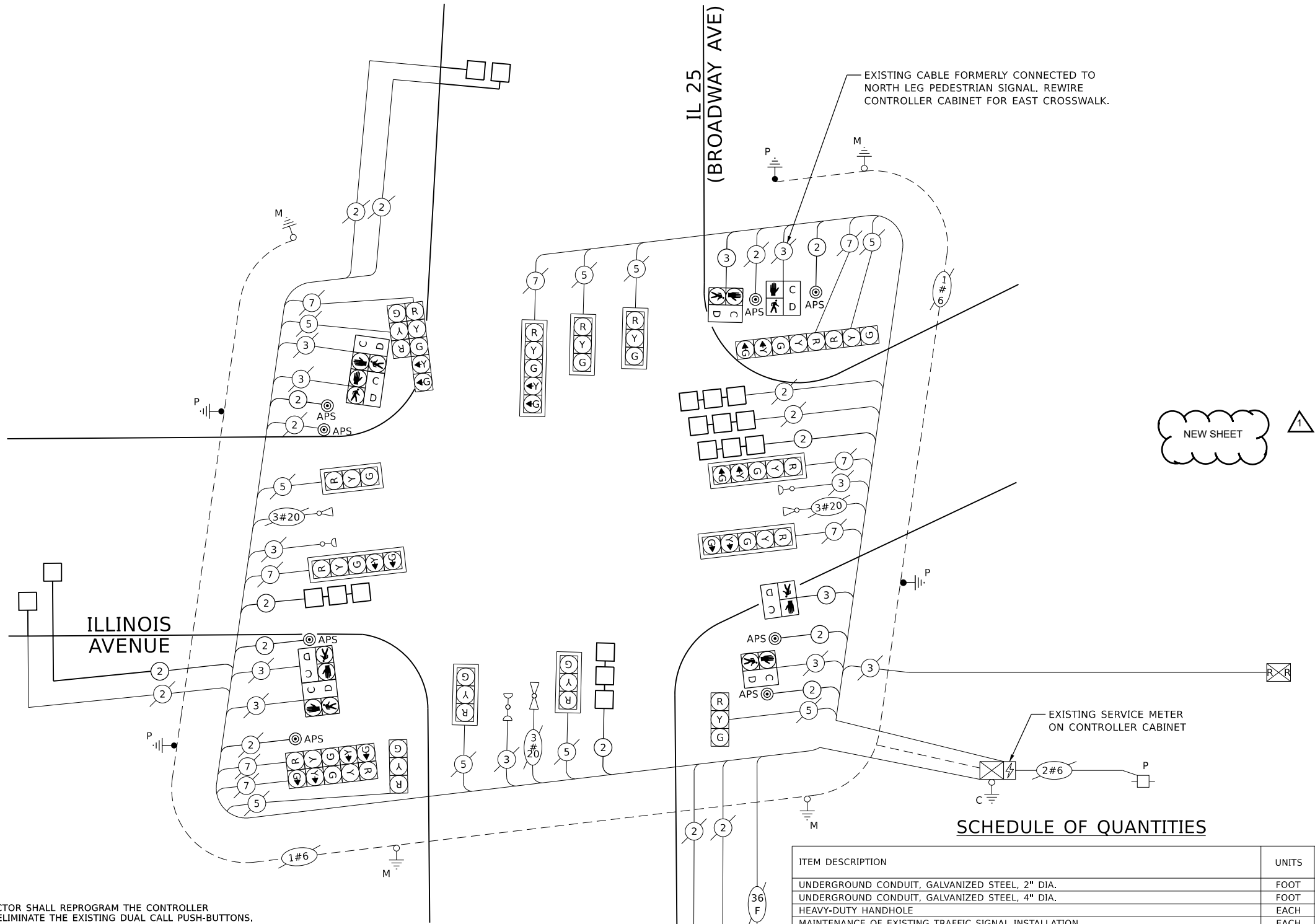
TYPE	QUANTITY	UNIT	WATTAGE	TOTAL
SIGNAL HEAD				
3-SECTION	9	11		99
4-SECTION	-	14		-
5-SECTION	8	13		104
PROGRAMMABLE SIGNALS				
3-SECTION	-	22		-
4-SECTION	-	32		-
5-SECTION	-	28		-
PED. SIGNAL	8	15		120
CONTROLLER	1	150		150
MASTER CONTROLLER	-	100		-
UPS	1	25		25
DETECTION				
RADAR	-	20		-
VIDEO	-	20		-
BLANK-OUT SIGN	-	25		-
PTZ CAMERA	-	75		-
NETWORK SWITCH II OR III	-	35		-
CELLULAR MODEM	-	15		-
TOTAL UPS SIZING =				498
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 =				1103

ENERGY COSTS TO:
CITY OF AURORA
44 E DOWNERS PLACE
AURORA, ILLINOIS 60507-2067

ENERGY SUPPLY: CONTACT: CASSIE EVANS
PHONE: (773) 241-0741
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

NOTE:

THE CONTRACTOR SHALL REPROGRAM THE CONTROLLER CABINET TO ELIMINATE THE EXISTING DUAL CALL PUSH-BUTTONS. THIS WORK WILL BE PAID FOR UNDER THE MODIFY EXISTING CONTROLLER ITEM.



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	170
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	247
HEAVY-DUTY HANDHOLE	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	633
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	199
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	899
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	90
DRILL EXISTING HANDHOLE	EACH	12
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	729
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	426
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNAL	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

CABLE PLAN (NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


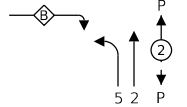
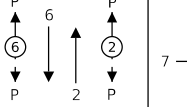
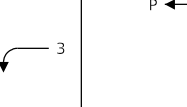
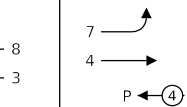
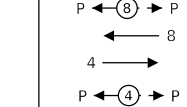


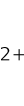
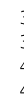
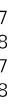


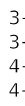


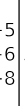
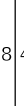
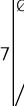
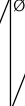
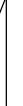
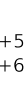
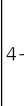


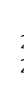
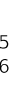
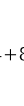


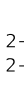






































































































































































































































































































































CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES
AND EMERGENCY VEHICLE PREEMPTION SYSTEM
IL ROUTE 25 (BROADWAY AVE) AND ILLINOIS AVE

NOT TO SCALE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13H
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				

TS 8995

PROPOSED SEQUENCE OF OPERATION

MOVEMENT							F L A S H																					
PHASE		2+5				4+8																						
INTERVAL		1	2	3	4A	4B	5	6	7A	7B	8	9	10	11	12	13	14A	14B	15	16	17	18A	18B	19	20	21	22A	22B
CHANGE TO																												
IL ROUTE 25 (BROADWAY STREET) END MAST ARM AND FAR LEFT SIGNALS (5-SECTION)	N/B																											
IL ROUTE 25 (BROADWAY STREET) CENTER AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS (3-SECTION)	N/B																											
IL ROUTE 25 (BROADWAY STREET) ALL SIGNALS (3-SECTION)	S/B																											
ILLINOIS AVENUE END MAST ARM AND FAR LEFT SIGNALS (5-SECTION)	E/B																											
ILLINOIS AVENUE RIGHT MAST ARM AND NEAR RIGHT SIGNALS (5-SECTION)	E/B																											
ILLINOIS AVENUE END MAST ARM AND FAR LEFT SIGNALS (5-SECTION)	W/B																											
ILLINOIS AVENUE RIGHT MAST ARM AND NEAR RIGHT SIGNALS (3-SECTION)	W/B																											
PEDESTRIAN SIGNALS CROSSING IL ROUTE 25 ON NORTH SIDE OF ILLINOIS AVENUE																												
PEDESTRIAN SIGNALS CROSSING IL ROUTE 25 ON SOUTH SIDE OF ILLINOIS AVENUE																												
																												
																												
																												

PHASES 2 AND 6 SHALL BE PLACED ON RECALL.

* TO APPEAR ONLY UPON PUSH-BUTTON ACTIVATION

** FLASHING "↓" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL

Ø THE "↑" OR FLASHING "↓" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "↑" OR FLASHING "↓" INTERVALS.

"↑" AND FLASHING "↓" TIMINGS TO BE SET ONLY ON PHASES WHERE "↑" AND FLASHING "↓" ARE INDICATED IN THE SEQUENCE OF OPERATION.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

		1	5	8	12	16	20	PREEMPTOR NUMBER 3	PREEMPTOR
--	--	---	---	---	----	----	----	-----------------------	-----------

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

																							PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	CLEAR TO NORMAL SEQUENCE	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	1		5	5			8	12			12		16			16		20			20				
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H ^{2 OR 3}	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	2	3	Δ	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	3	2	1F	1G	3		1K	1L	2	1N	3	1Q	1R	2	1T	3	1V	1W	2	3			Δ	
IL ROUTE 25 (BROADWAY STREET) END MAST ARM AND FAR LEFT SIGNALS (5-SECTION)	N/B	G ←Y	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	Δ	
IL ROUTE 25 (BROADWAY STREET) CENTER AND RIGHT MAST ARM AND NEAR RIGHT SIGNALS (3-SECTION)	N/B	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	Δ	
IL ROUTE 25 (BROADWAY STREET) ALL SIGNALS (3-SECTION)	S/B	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	Δ	
ILLINOIS AVENUE END MAST ARM AND FAR LEFT SIGNALS (5-SECTION)	E/B	R	R	R	R	R	R	R	R ←Y	R	R	R	R	R	G ←G	Y	R	G ←G	G ←Y	G	Y	R	G	R	G	Δ
ILLINOIS AVENUE RIGHT MAST ARM AND NEAR RIGHT SIGNALS (5-SECTION)	E/B	R Y→	R Y→	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	R	G	Δ
ILLINOIS AVENUE END MAST ARM AND FAR LEFT SIGNALS (5-SECTION)	W/B	R	R	R	R	R	R	R	R ←Y	G ←G	Y	R	G ←G	G ←Y	R	R	R	R	R	G	Y	R	G	R	G	Δ
ILLINOIS AVENUE RIGHT MAST ARM AND NEAR RIGHT SIGNALS (3-SECTION)	W/B	R	R	R	R	R	R	R	R	G	Y	R	G	G	R	R	R	R	R	G	Y	R	G	R	G	Δ
PEDESTRIAN SIGNALS CROSSING IL ROUTE 25 ON NORTH SIDE OF ILLINOIS AVENUE	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	FH	H	H	FH	H	H	Δ
PEDESTRIAN SIGNALS CROSSING IL ROUTE 25 ON SOUTH SIDE OF ILLINOIS AVENUE	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	FH	H	H	FH	H	H	Δ
PEDESTRIAN SIGNALS CROSSING ILLINOIS AVENUE ON WEST SIDE OF IL ROUTE 25	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING ILLINOIS AVENUE ON EAST SIDE OF IL ROUTE 25	FH	FH	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ

Δ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTERVAL 2 OR 3 IS TERMINATED.

MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\cms09620\0117024-border-TS.dgn



USER NAME	= USPS706128	DESIGNED -	STSG	REVISED -	4/10/2025	Δ
		DRAWN -	STSG	REVISED -		
		CHECKED -	MJM	REVISED -		
PLOT DATE	= 3/11/2025	DATE	= 3/12/2025	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE OF OPERATION,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
IL ROUTE 25 (BROADWAY AVE) AND ILLINOIS AVE

NOT TO SCALE SHEET 2 OF 2 SHEETS STA. TO STA.



TS 8995

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13J
CONTRACT NO. 62W69				
		ILLINOIS	FED. AID PROJECT	

REMOVE AND RELOCATION NOTES:

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

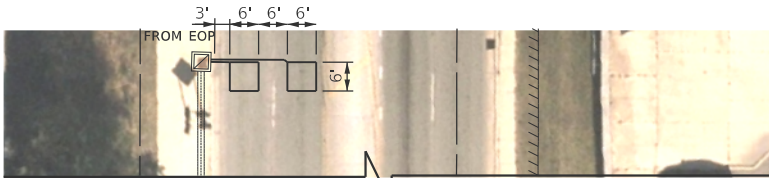
4 EACH PEDESTRIAN PUSH-BUTTONS

NOTES:

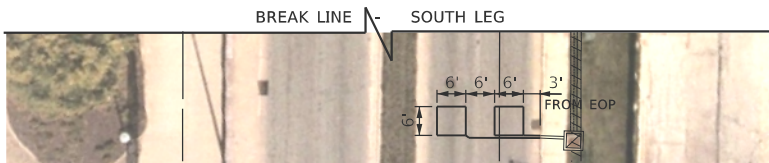
- THE CONTRACTOR SHALL PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE PEDESTRIAN EQUIPMENT IS NOT OPERATIONAL.
- THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE APS EQUIPMENT WITH THE TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
- APS BUTTONS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
- EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
- ALL PUSH-BUTTONS SHALL BE APS.
- ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
- THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
- THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.



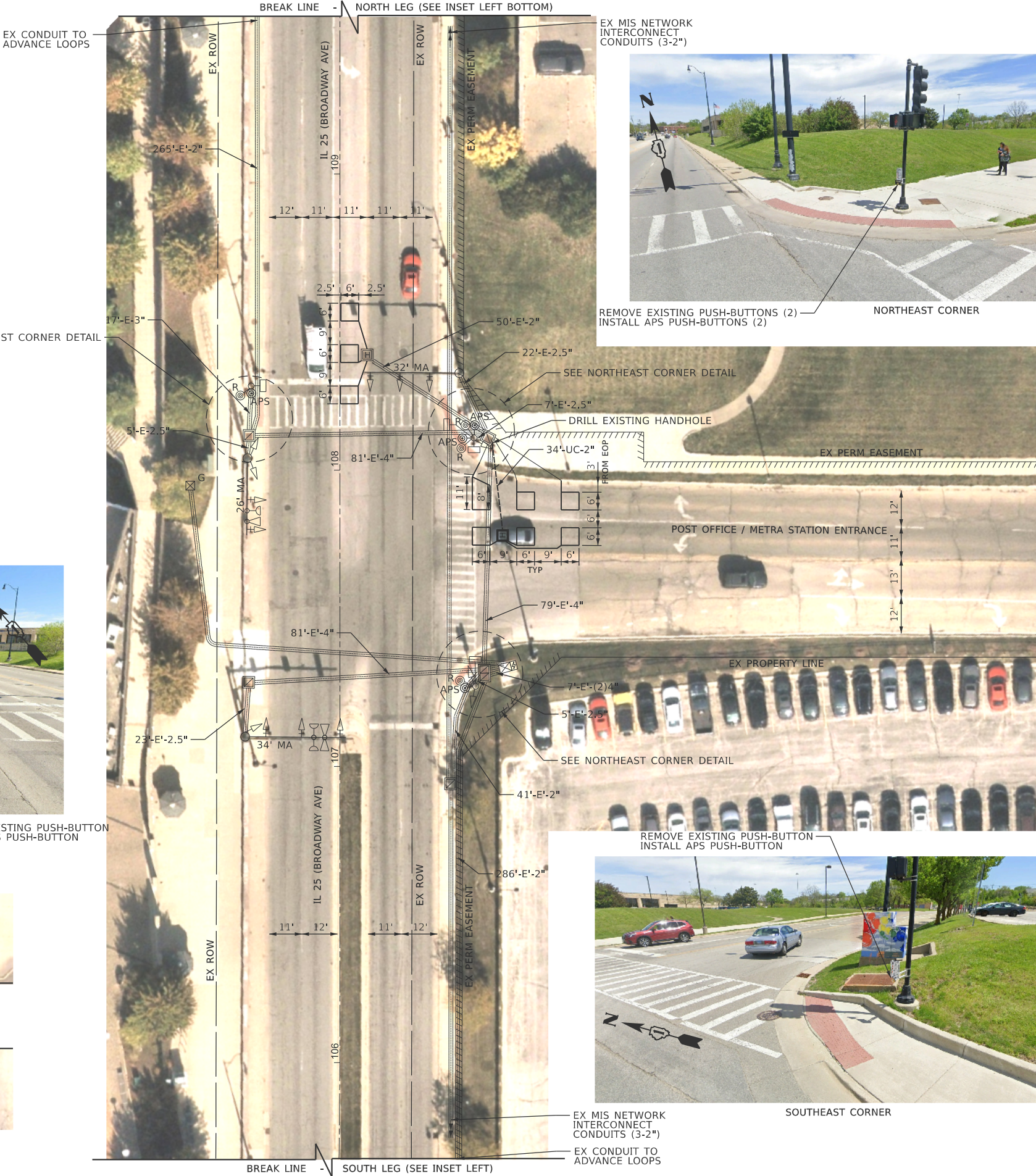
NORTHWEST CORNER
REMOVE EXISTING PUSH-BUTTON
INSTALL APS PUSH-BUTTON



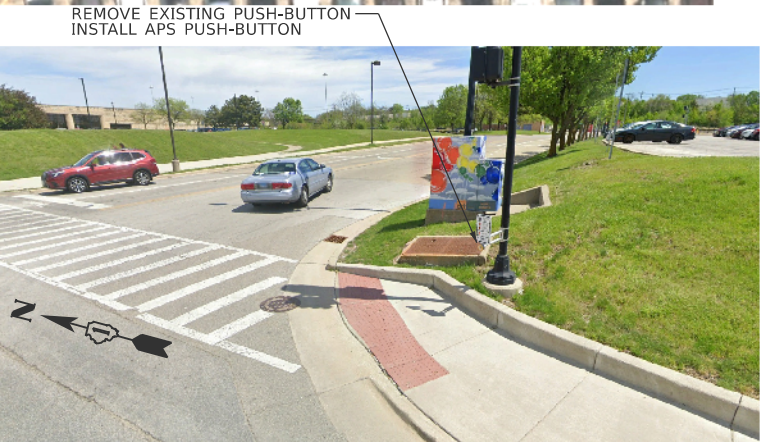
BREAK LINE - NORTH LEG



BREAK LINE - SOUTH LEG



NORTHEAST CORNER
REMOVE EXISTING PUSH-BUTTONS (2)
INSTALL APS PUSH-BUTTONS (2)



SOUTHEAST CORNER



TS 790

MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\dm50820\0117024-border-TS.dgn



USER NAME = USPS706128	DESIGNED -	STSG	REVISED -	4/10/2025	△
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	CHECKED -	MJM	REVISED -		
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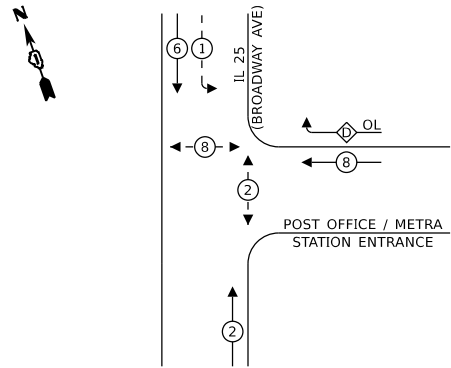
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL ROUTE 25 (BROADWAY AVE) AND POST OFFICE ENTRANCE

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13K
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



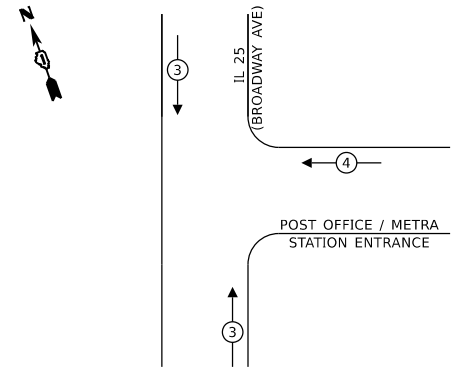
RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER D = PERMISSIVE PHASE 8 + PROTECTED PHASE 1

LEGEND:

- Protected Phase
- Protected/Permitted Phase
- Pedestrian Phase
- Overlap

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



AS REQUIRED BY THE CITY OF AURORA,
EMERGENCY VEHICLE PREEMPTION EQUIPMENT IS *OPTICOM*.

TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE SIGNALS			
3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PED. SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION			
RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
PTZ CAMERA	-	75	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			397

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 =			1002

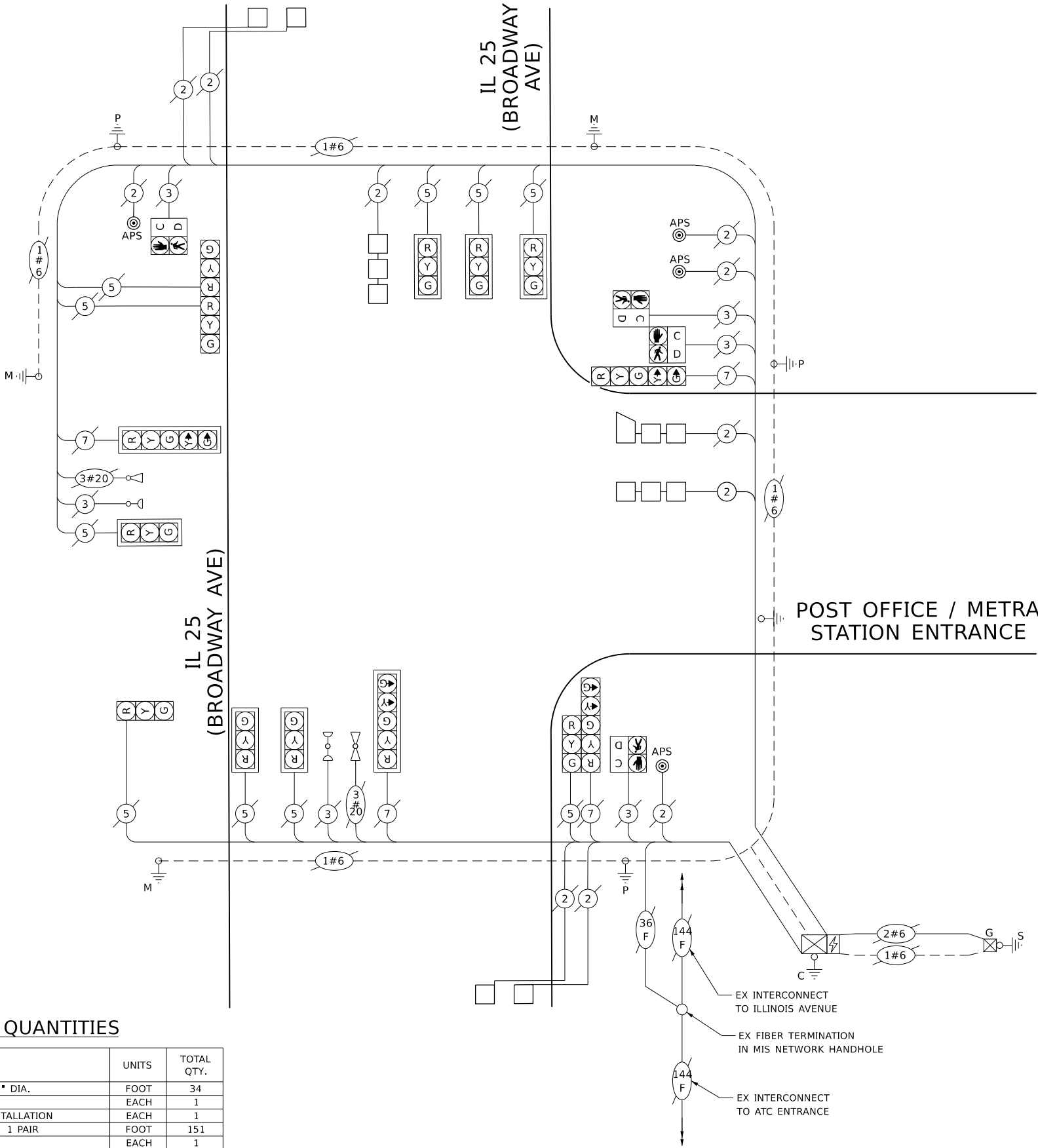
ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF
TRANSPORTATION

201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: CASSIE EVANS
PHONE: (773) 241-0741
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	34
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	151
DRILL EXISTING HANDHOLE	EACH	1
DETECTOR LOOP, TYPE I	FOOT	414
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	110
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNAL	EACH	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



CABLE PLAN

(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES
AND EMERGENCY VEHICLE PREEMPTION SYSTEM
IL ROUTE 25 (BROADWAY AVE) AND POST OFFICE ENTRANCE

NOT TO SCALE SHEET 1 OF 1 SHEETS STA. TO STA.

TS 790

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	13L
CONTRACT NO. 62W69				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: c:\bms\wsp-us-pw-ill\hms\09620\0117024-border-TS.dgn



USER NAME = USPS706128
PLOT DATE = 3/11/2025

DESIGNED - STSG	REVISED - 4/10/2025
DRAWN - STSG	REVISED -
CHECKED - MJM	REVISED -
DATE - 3/12/2025	REVISED -

TRAFFIC SIGNAL LEGEND
(NOT TO SCALE)

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



MODEL: Default
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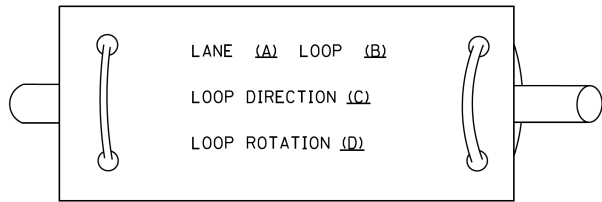
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PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE. 2503	SECTION 2024-950-RS	COUNTY KANE	TOTAL SHEETS 26	SHEET NO. 23A
	SCALE: NONE	SHEET 1	OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 62W69		
				ILLINOIS			FED. AID PROJECT	

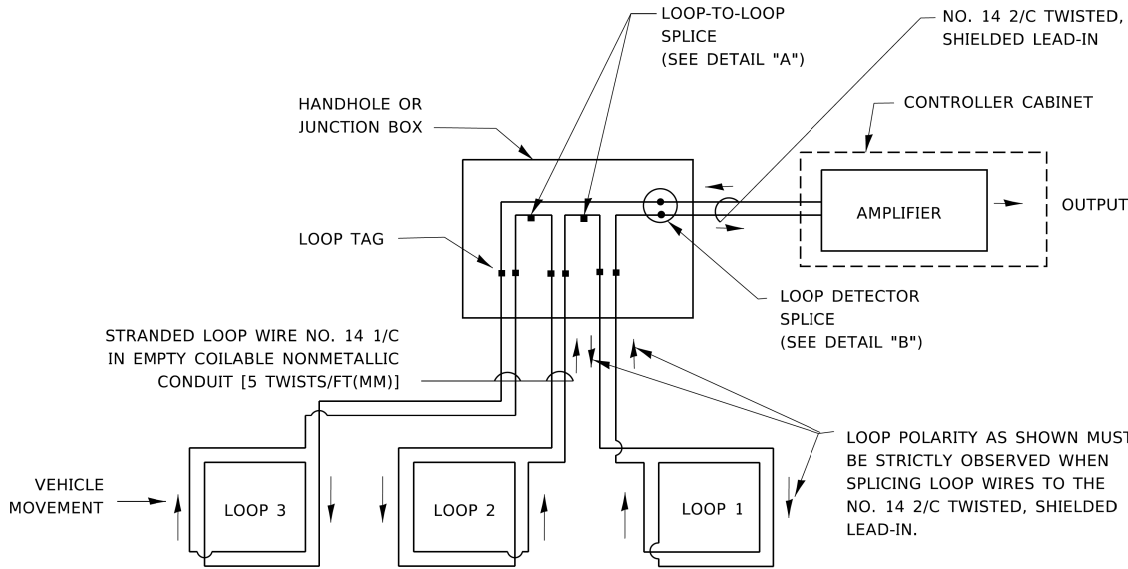
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

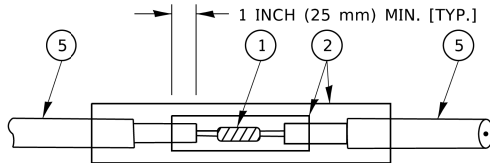


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

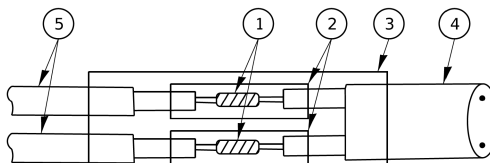


DETECTOR LOOP WIRING SCHEMATIC

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

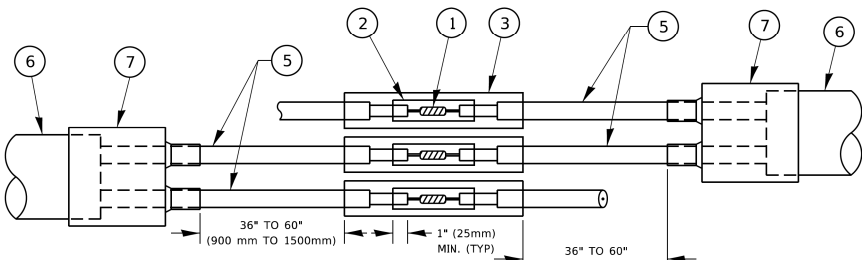


DETAIL "A"
LOOP-TO-LOOP SPLICE

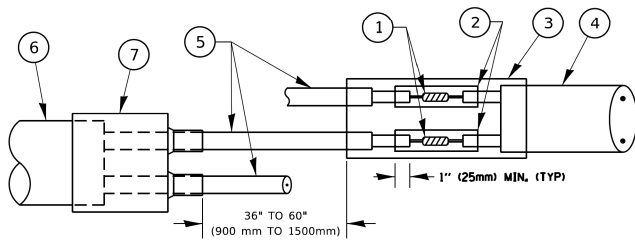


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

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



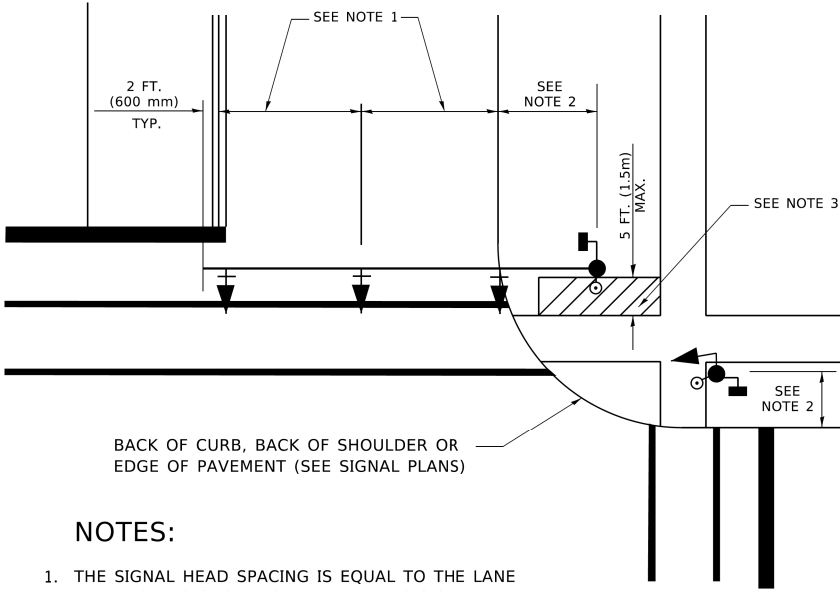
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		DRAWN -	REVISED -					2503	2024-950-R5	KANE	26	23B
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -					TS-05		CONTRACT NO. 62W69		
	PLOT DATE = 3/4/2019	DATE -	REVISED -					ILLINOIS		FED. AID PROJECT		
SCALE: NONE					SHEET 2	OF 7	SHEETS	STA.	TO STA.			

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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

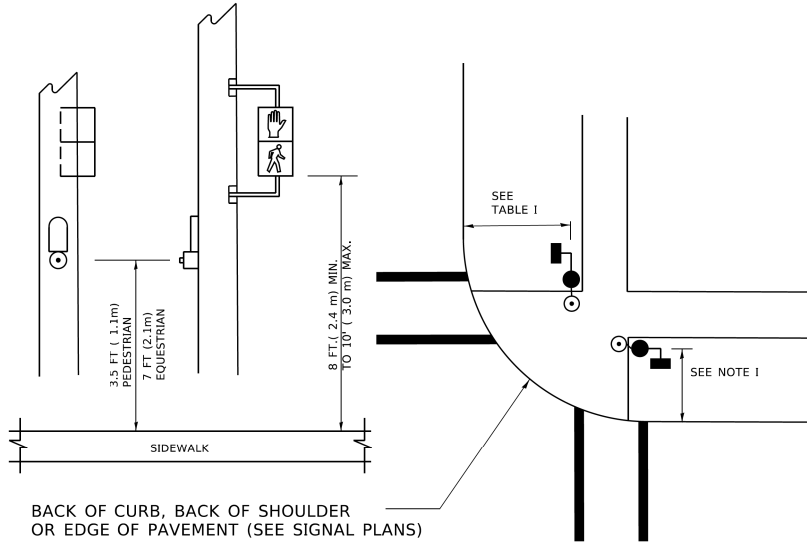
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

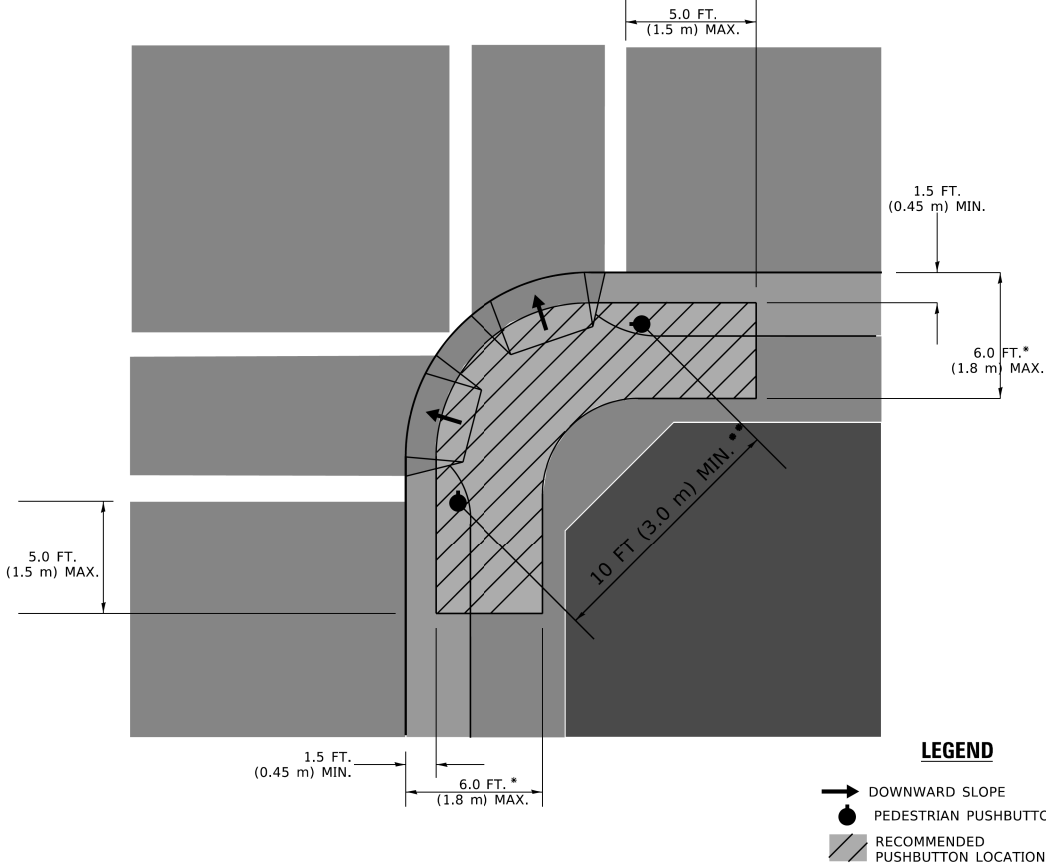
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

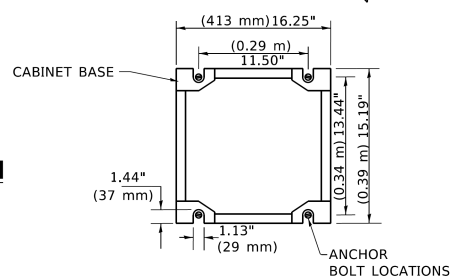
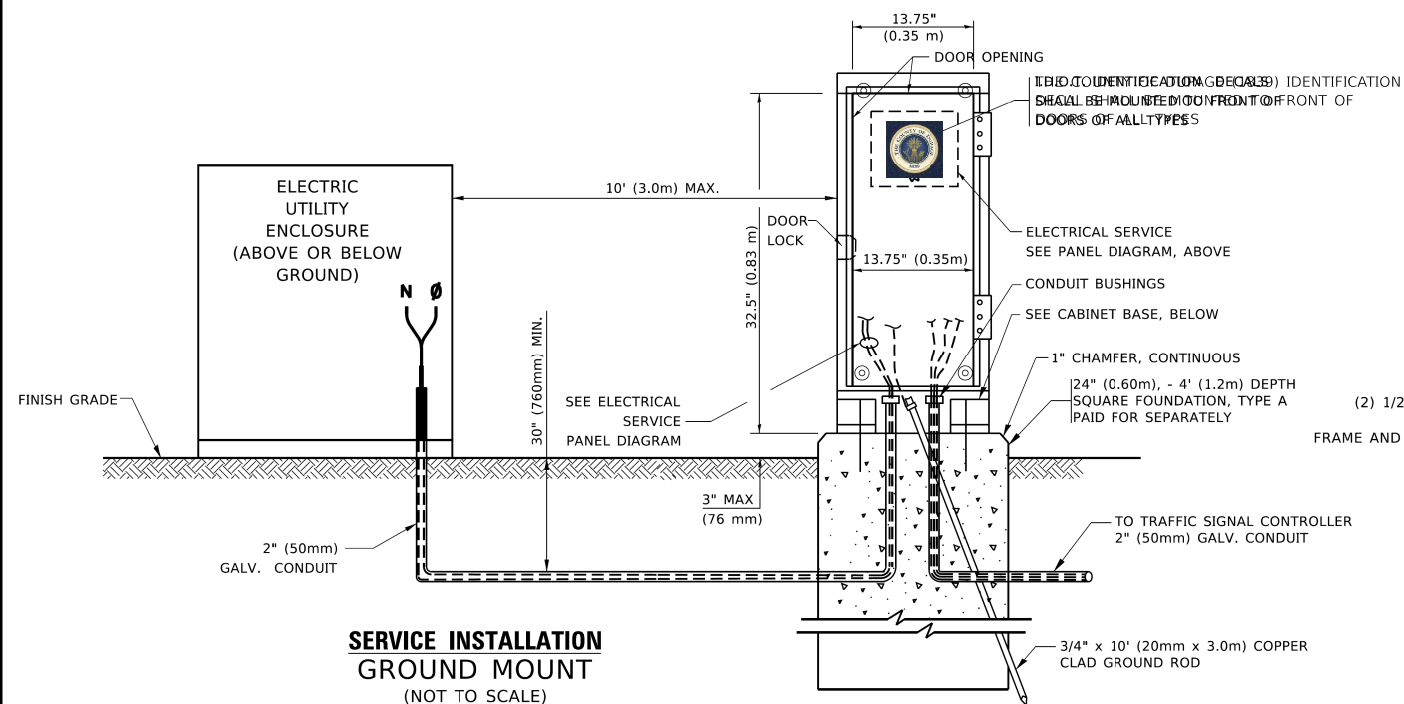
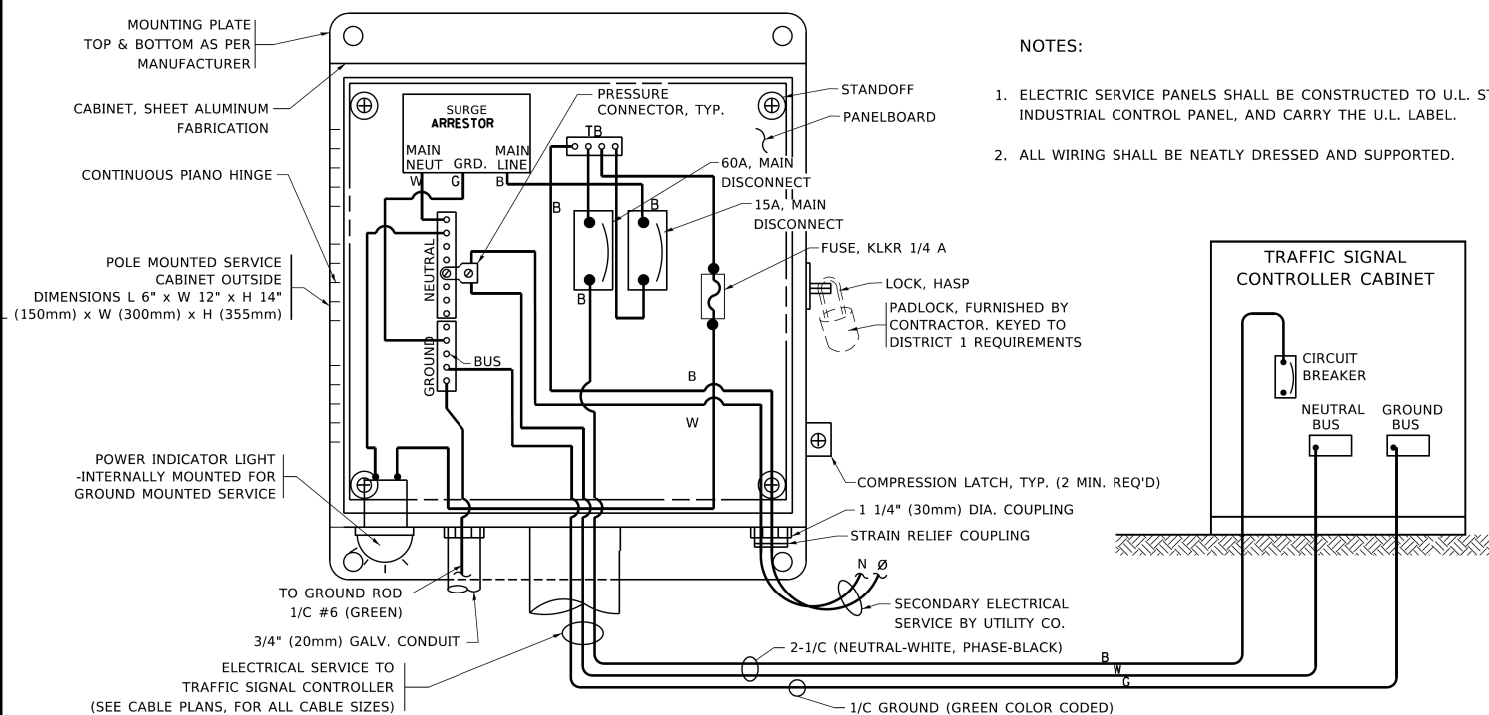
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

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

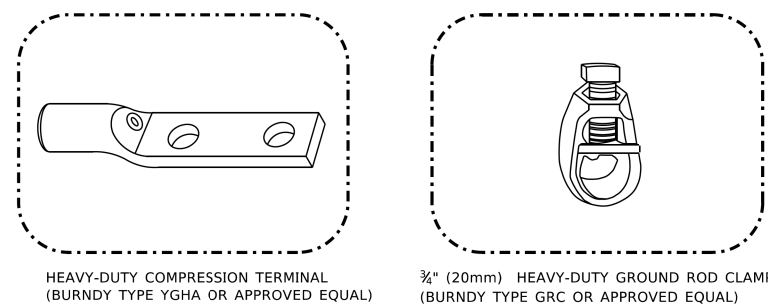
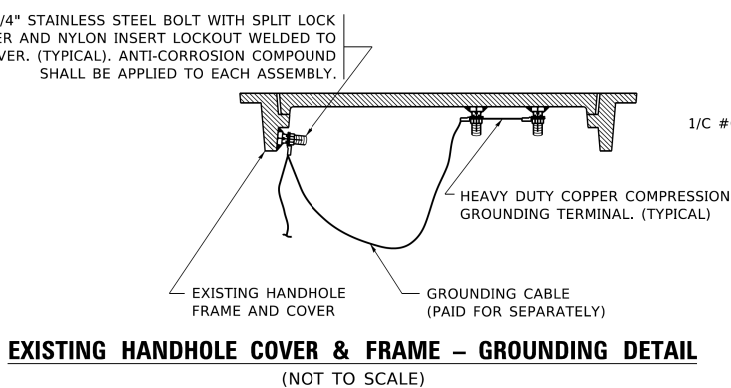
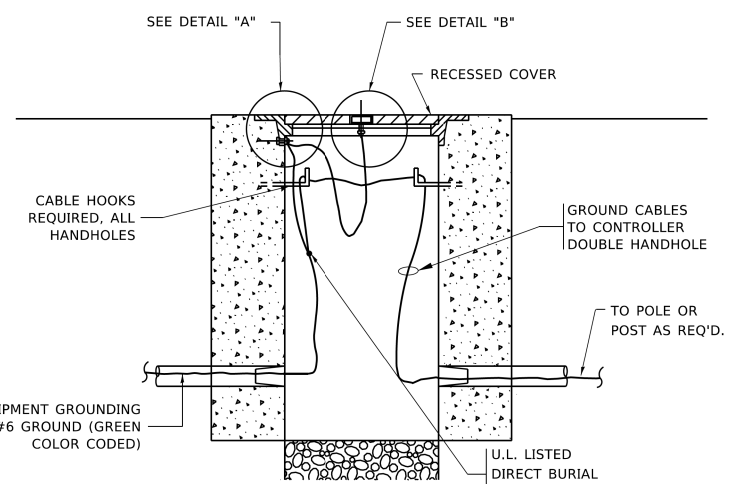
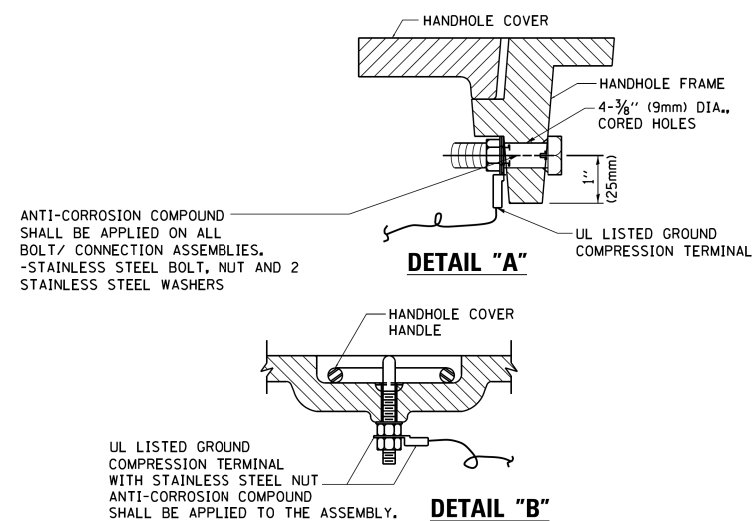


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	DRAWN -	REVISED -			2503	2024-950-R5	KANE	26	23C
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -			TS-05		CONTRACT NO. 62W69		
PLOT DATE = 3/4/2019	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



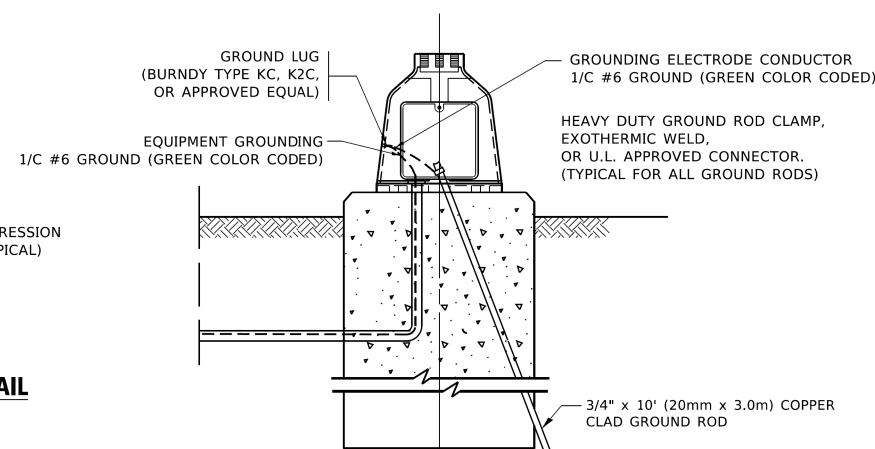
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.




NOTES:

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



MAST ARM POLE /POST-GROUNDING DETAIL

NEW SHEET

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	DRAWN -	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE	SHEET 4 OF 7 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-R5		KANE	26	23DC
TS-05			CONTRACT NO. 62W69		
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CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION



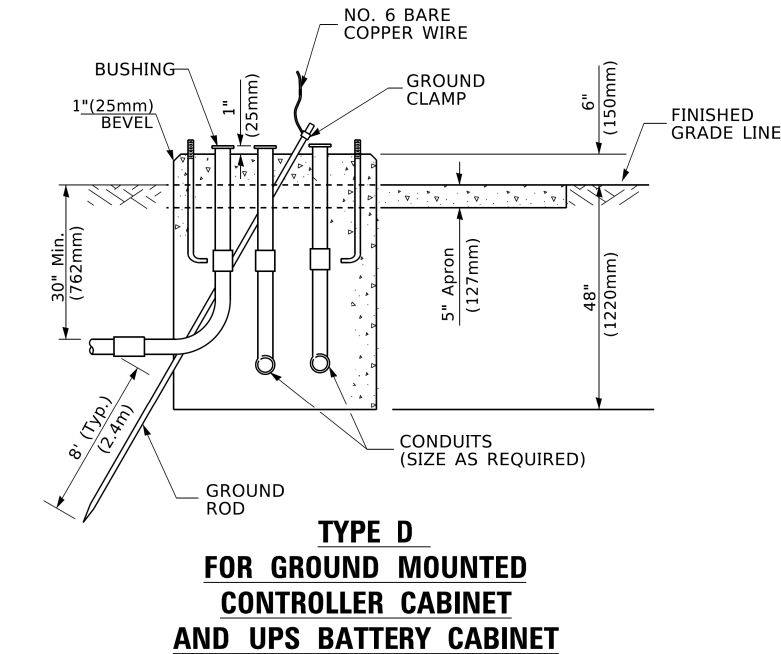
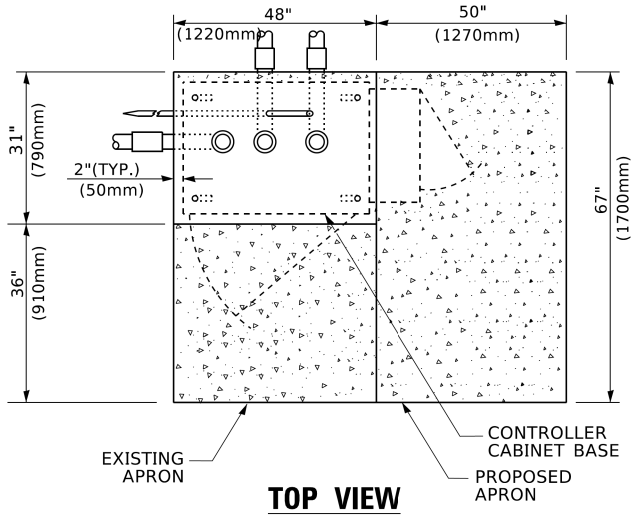
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

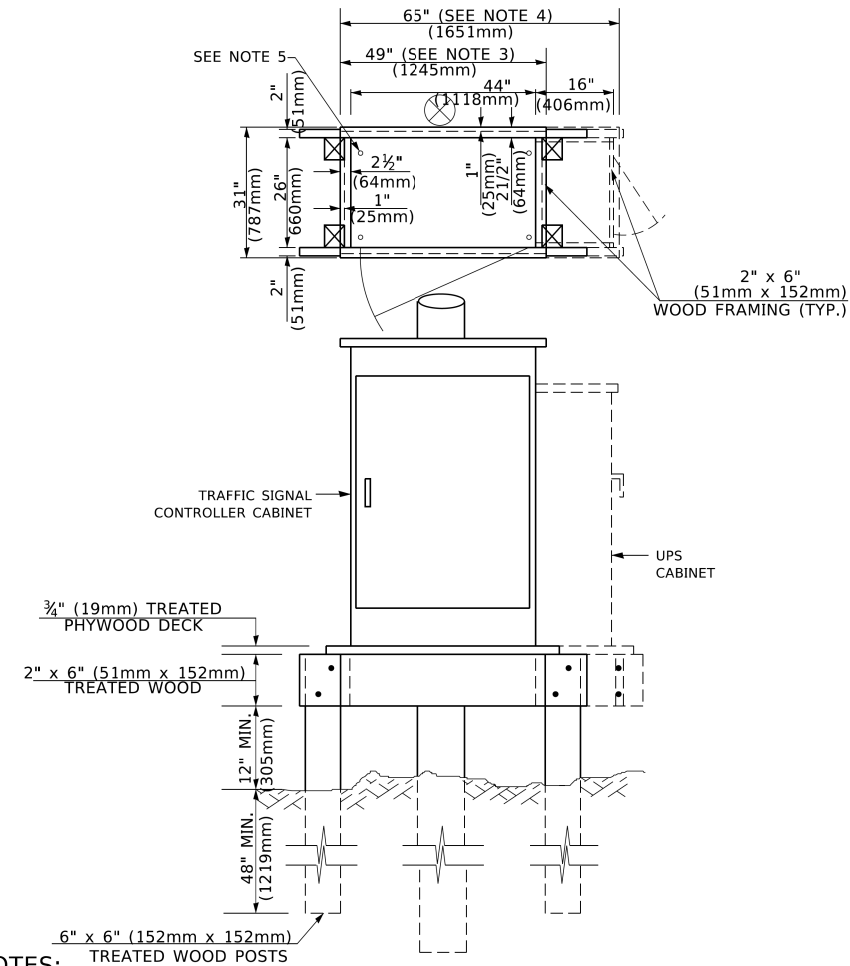
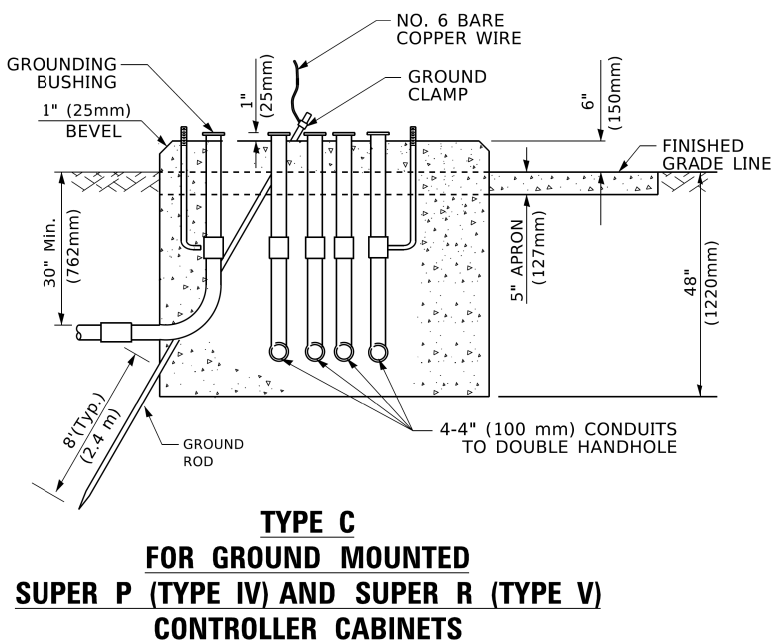
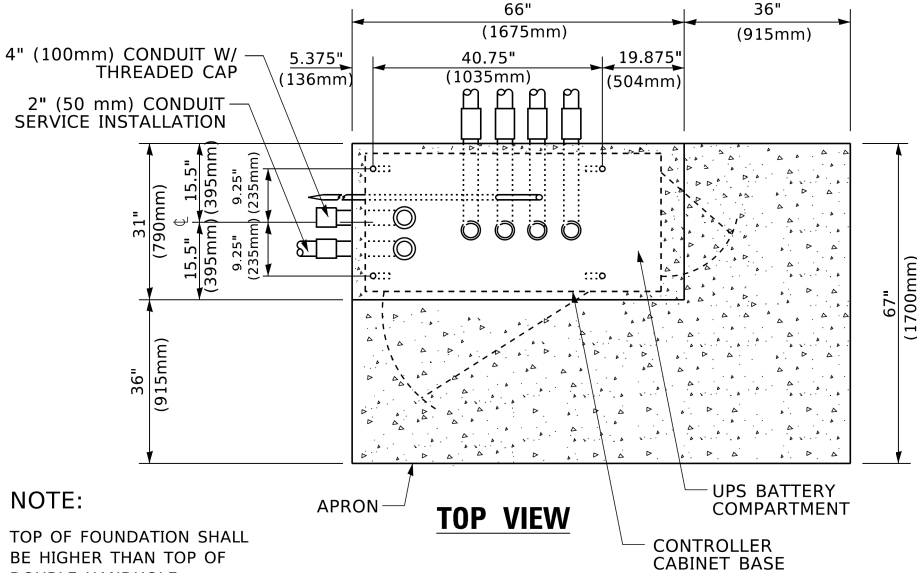
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCALE: NONE			2503	2024-950-R5	KANE	26	23E
	SHEET 5 OF 7 SHEETS			TS-05		CONTRACT NO. 62W69		
	STA. TO STA.			ILLINOIS		FED. AID PROJECT		



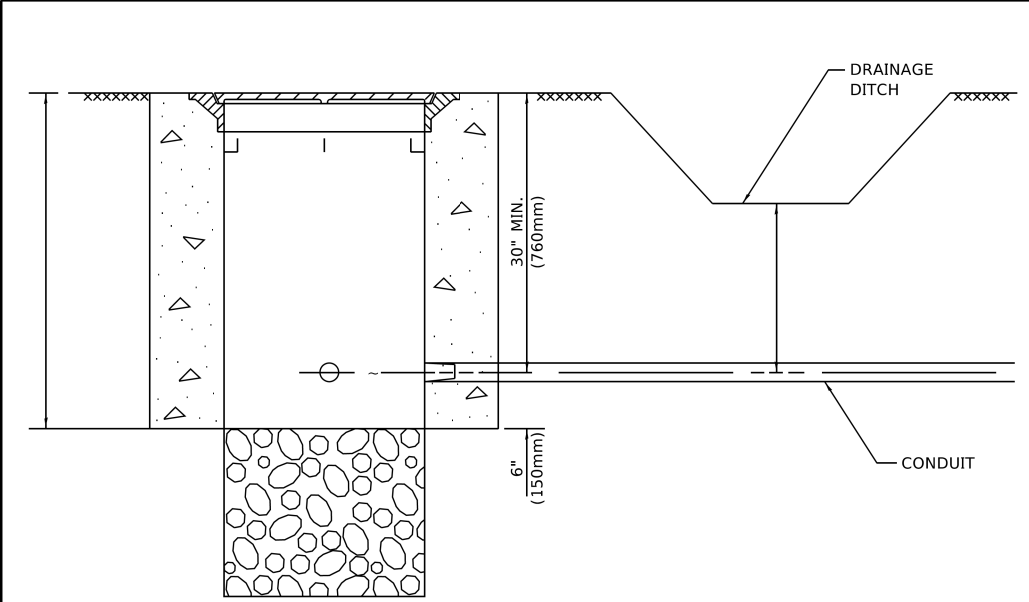
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



NOTES:

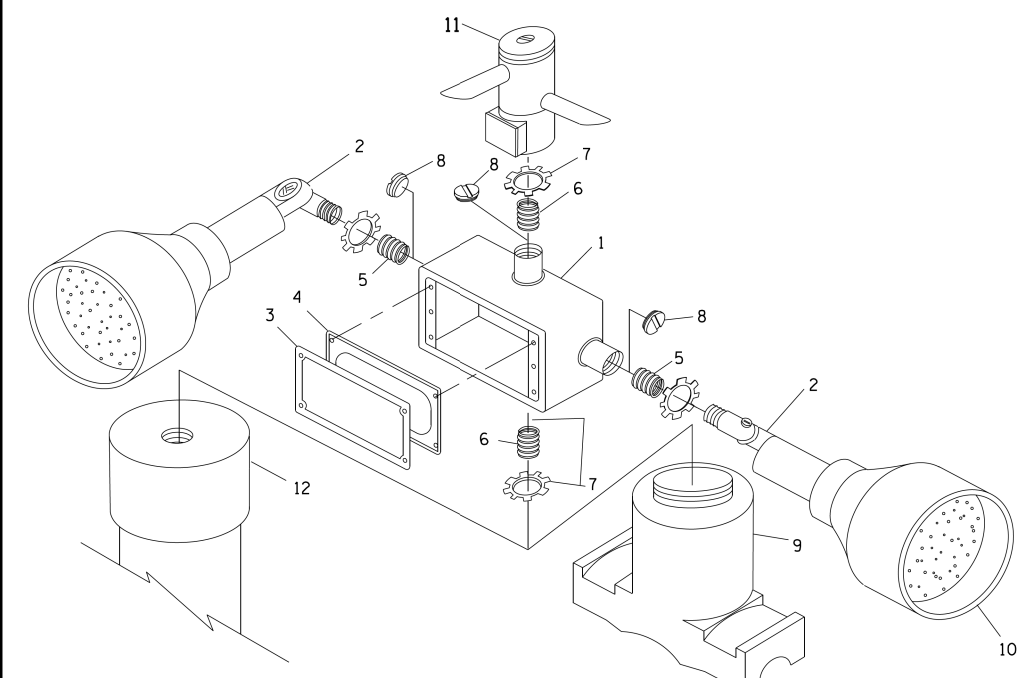
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS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



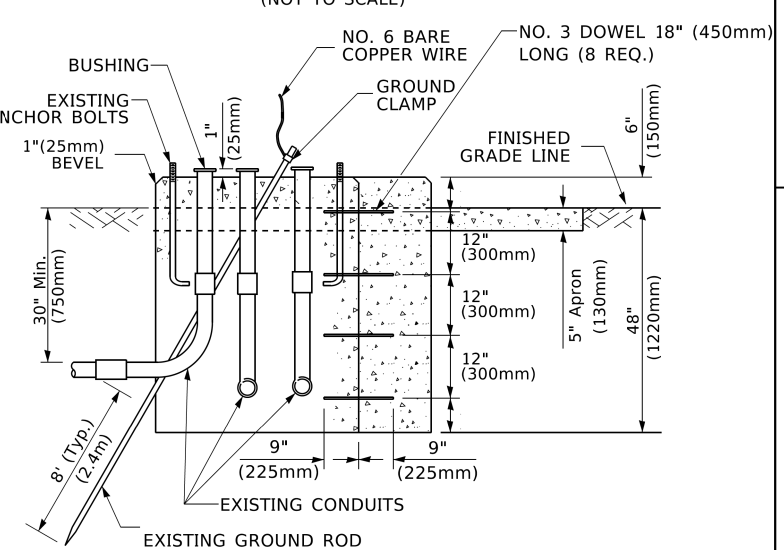
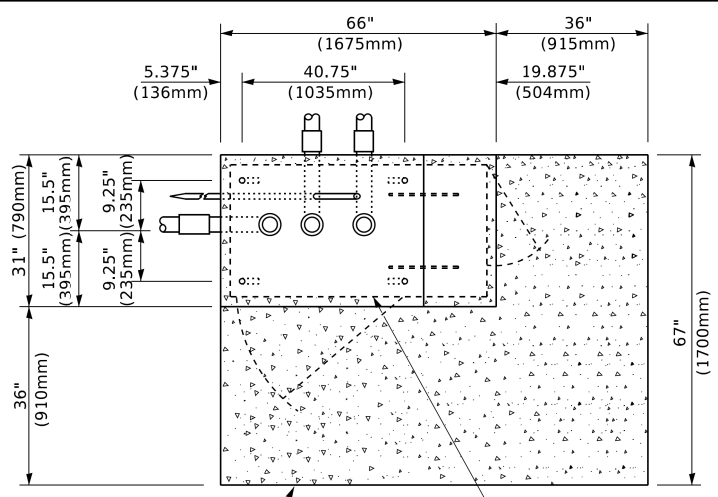
NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL

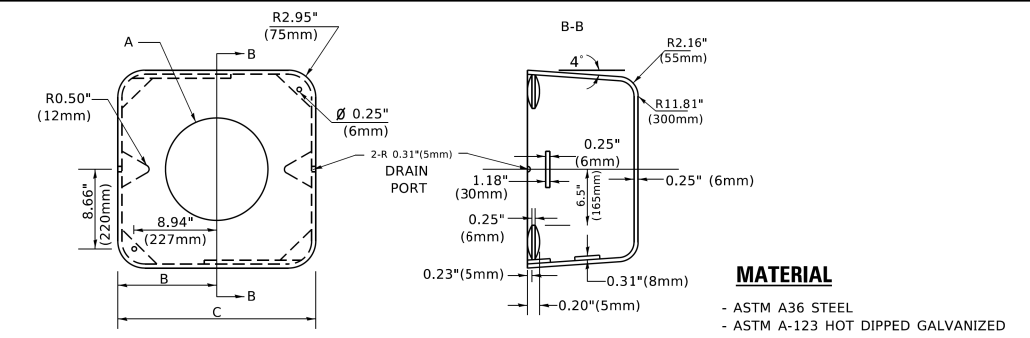


MODIFY EXISTING TYPE "D" FOUNDATION
TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



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

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

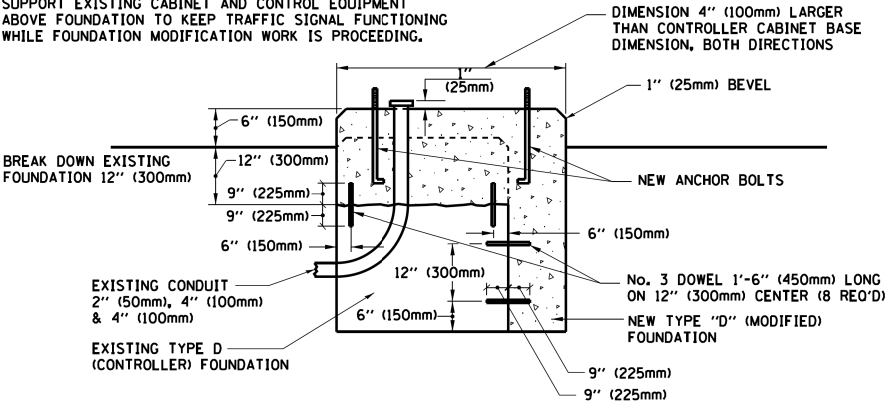
SHROUD

NOTES:

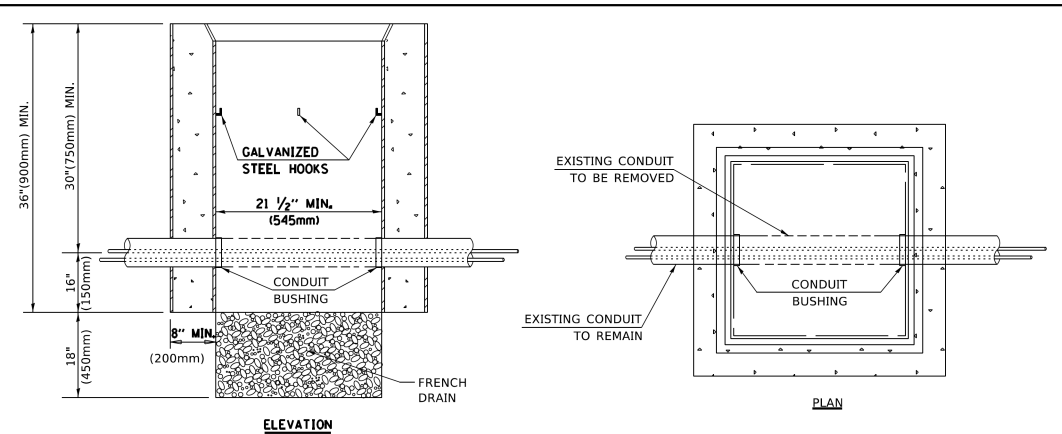
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 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

MODEL: Default
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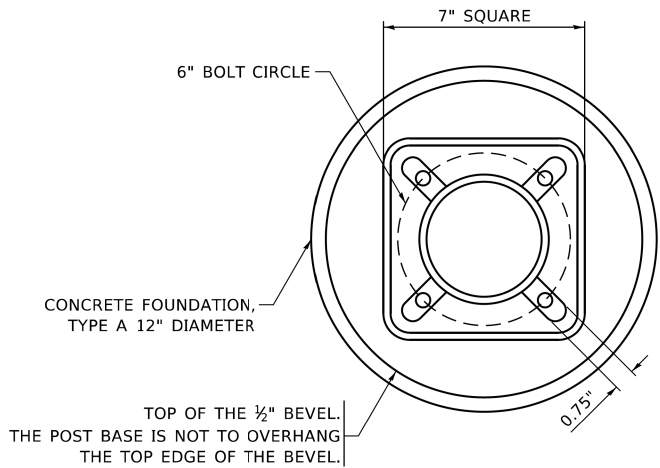
USER NAME = footemj	DESIGNED -	REVISED - 4/10/2025
PLOT SCALE = 50.0000 " / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

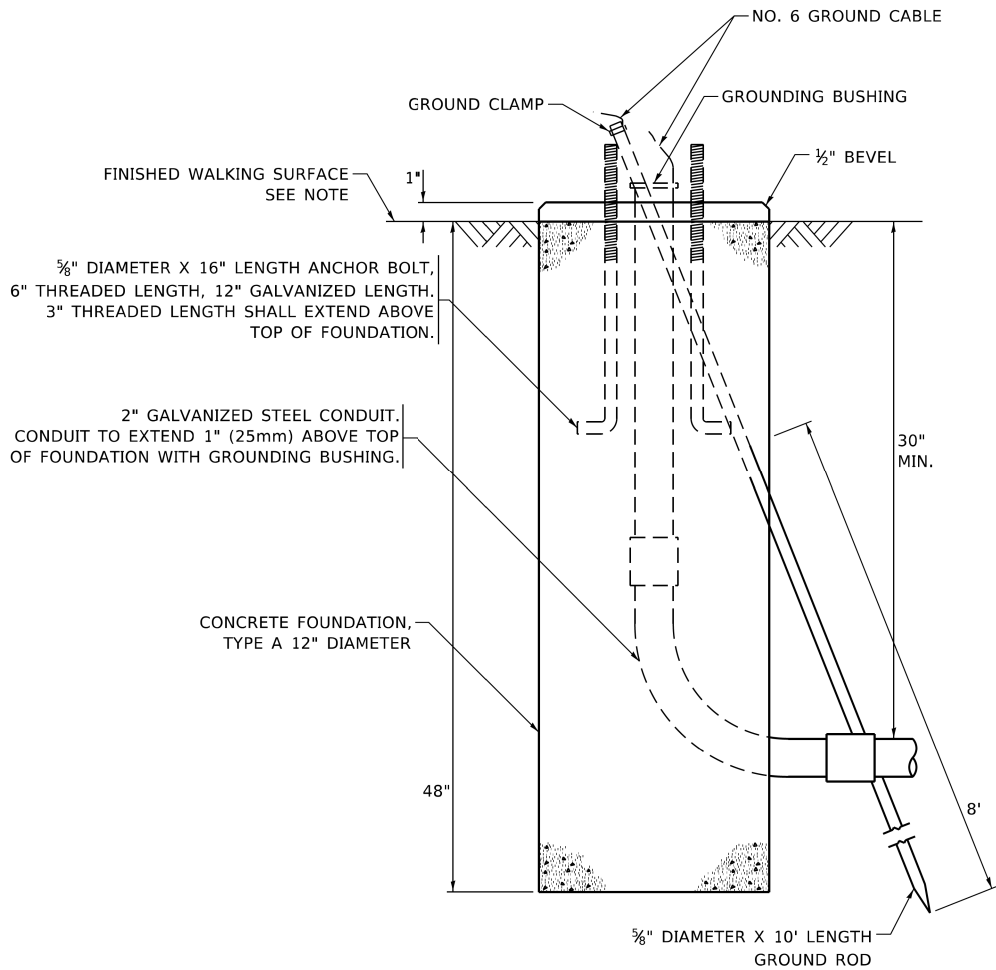
SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	2024-950-RS	KANE	26	23F
TS-05		CONTRACT NO. 62W69		
ILLINOIS		FED. AID PROJECT		

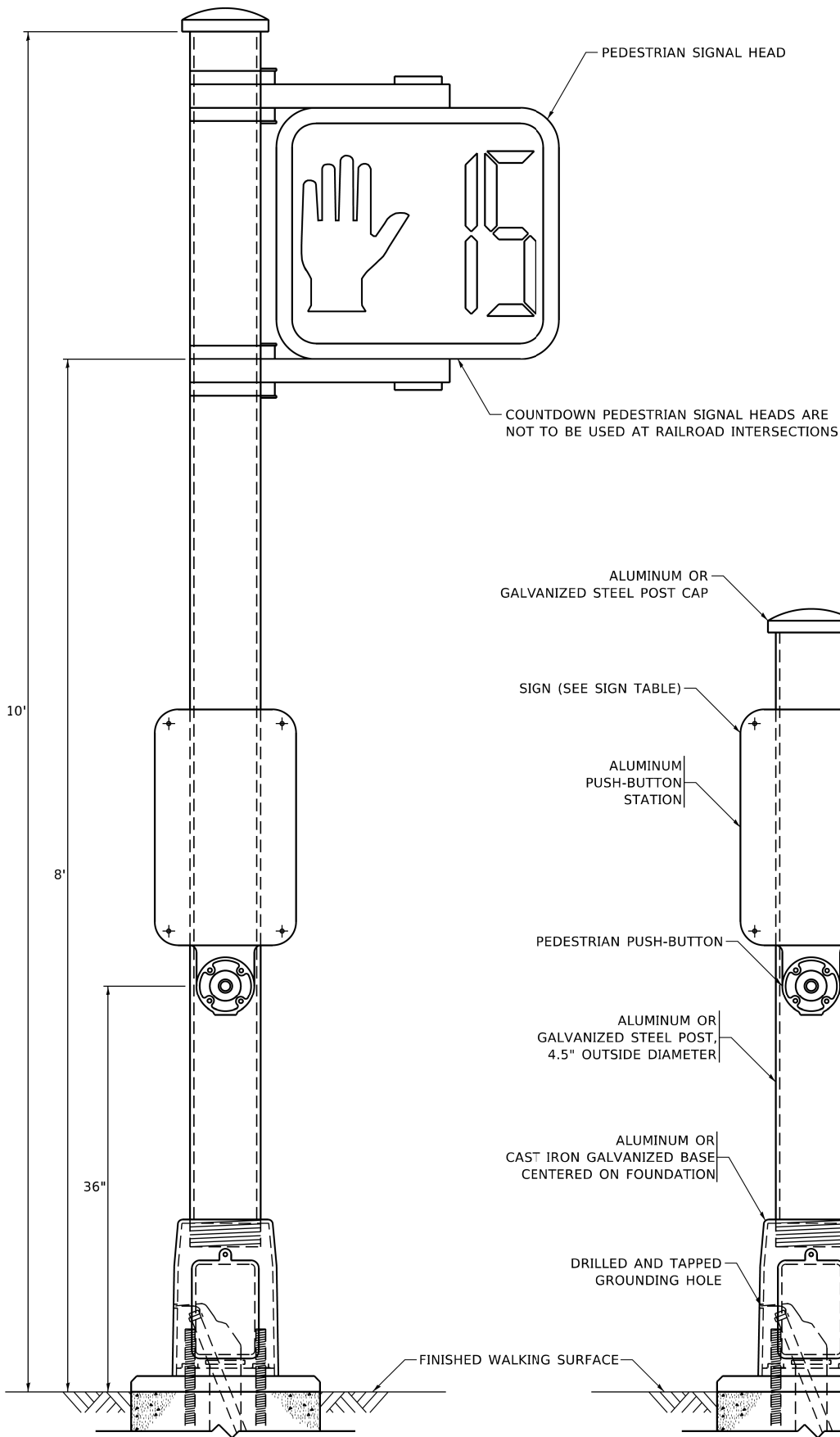


BOLT PATTERN

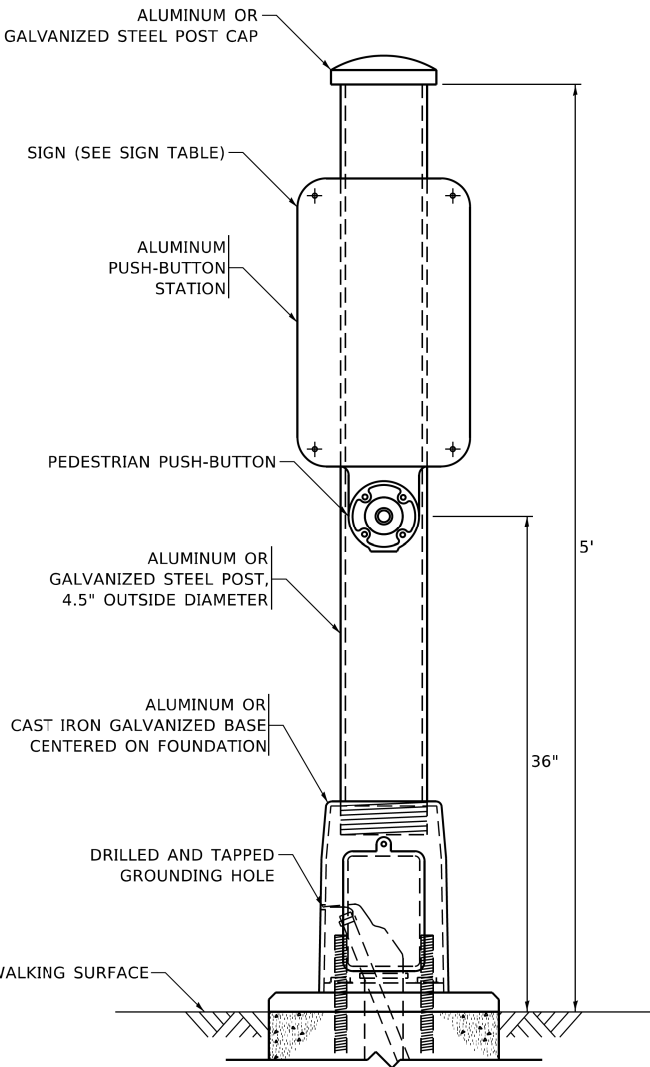
NOTE:
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER



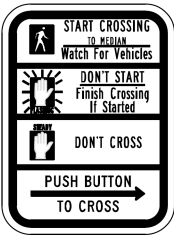
PEDESTRIAN SIGNAL POST, 10 FT.



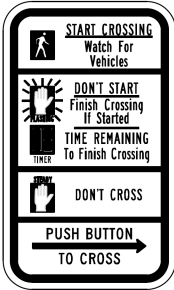
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:
1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

