

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	1
			ILLINOIS	CONTRACT NO. 80B35

\* 63 + 4 = 67 TOTAL SHEETS

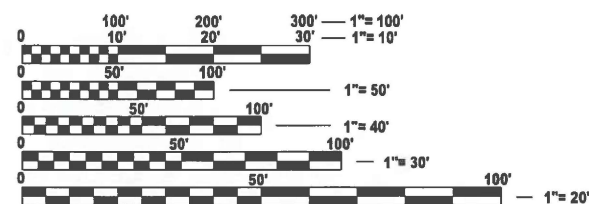
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

LOCATED IN THE VILLAGE OF RIVER GROVE,  
VILLAGE OF SCHILLER PARK AND CITY OF CHICAGO

TRAFFIC DATA:

CUMBERLAND AVE  
2025 ADT = 20,300 - 29,200 VPD  
DESIGN CLASSIFICATION = OTHER PRINCIPAL ARTERIAL  
POSTED SPEED = 30 - 40 MPH

GRAND AVE  
RESURFACING OMISSION  
STA. 435+68 TO STA. 437+74



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.

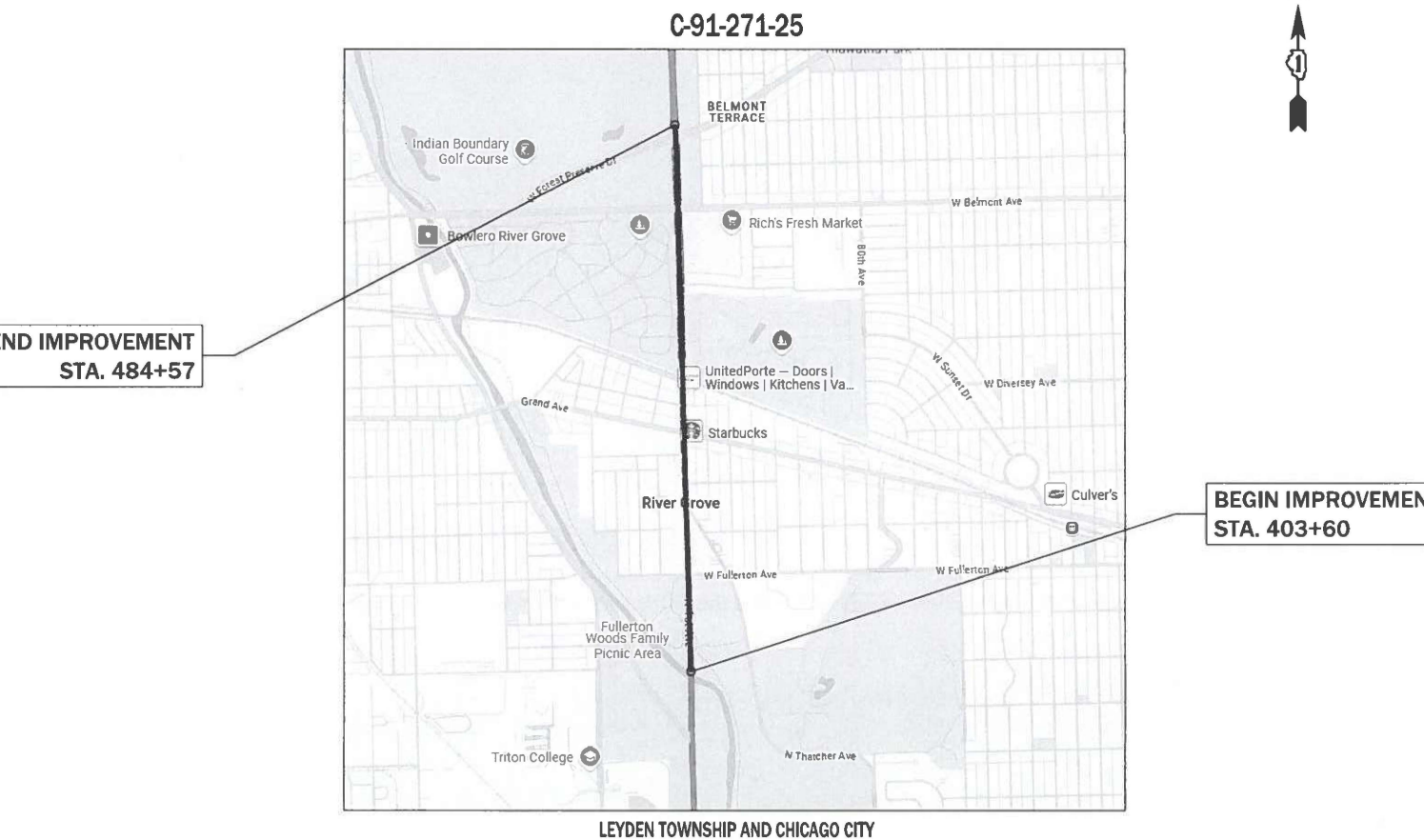
CHICAGO UTILITY ALERT NETWORK (DIGGER/CHICAGO)  
1-312-744-7000  
OR 811  
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: LUKASZ POCIECHA  
PROJECT MANAGER: VESELIN VELICHKOV

CONTRACT NO. 80B35

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 372 (IL 171 / CUMBERLAND AVE)  
NORTH OF FOREST PRESERVE DR TO DES PLAINES RIVER  
FAP ROUTE 330 (US 45 / MANNHEIM RD) AT SEYMOUR AVE  
SECTION 2025-2003-RS  
PROJECT NHPP-I7PS(467)  
SMART OVERLAY, TRAFFIC SIGNAL MODERNIZATION AND ADA IMPROVEMENTS  
COOK COUNTY



GROSS LENGTH = 8,097 FT. = 1.53 MILES  
NET LENGTH = 7,891 FT. = 1.49 MILES



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 23, 2026  
Jozefas IR  
REGIONAL ENGINEER

May 8, 2026  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2026  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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# DISTRICT ONE STANDARDS

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# HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-04	CLASS C AND D PATCHES
604001-05	FRAMES AND LIDS, TYPE 1
606001-09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-11	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

## GENERAL NOTES

- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION AND ORDERING MATERIALS.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OR WORK TO EXISTING CURBS AND GUTTER MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN.
- ALL PAVEMENT PATCHING LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AT THE TIME OF CONSTRUCTION.
- LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (OR COMBINATION CURB AND GUTTER THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- DRAINAGE ADJUSTMENTS OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL 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 SHALL DELIVER THE RECORD TO THE ENGINEER.
- PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKING ON ALL FINAL SURFACES.
- THE RESIDENT ENGINEER SHALL CONTACT ABDULLA ALI, AREA TRAFFIC FIELD ENGINEER AT ABDULLA.ALI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 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 BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT
- 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 HOUR NOTIFICATION IS REQUIRED).
- SIDEWALK REMOVAL AND P.C.C. SIDEWALK 5" LOCATIONS SHALL BE DETERMINED BY THE RESIDENT ENGINEER.
- 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 RESIDENT ENGINEER OR AS PROVIDED IN THE CONTRACT SPECIFICATIONS.
- TEMPORARY PAVEMENT MARKINGS OR SHORT TERM PAVEMENT MARKINGS ON INTERMEDIATE SURFACES SHALL NOT BE REMOVED, UNLESS DIRECTED BY THE ENGINEER.
- THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.

## CHICAGO NOTES

- ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF WATER MANAGEMENT SEWER SECTION STANDARD.
- SEWER SIZES 525 MM (21") DIAMETER OR SMALLER MUST BE EXTRA STRENGTH VITRIFIED CLAY PIPE C-700 OR DUCTILE IRON PIPE WITH PUSH-ON OR MECHANICAL JOINTS. SEWER SIZES 600 MM (24") DIAMETER OR LARGER MUST BE REINFORCED CONCRETE PIPE TYPE C-76, CLASS III, WALL "B" WITH "O-RING" JOINTS.
- PERMITS FROM THE DEPARTMENT OF WATER MANAGEMENT - SEWER SECTION ARE REQUIRED FOR ALL UNDERGROUND STORM, SANITARY OR COMBINED SEWER SYSTEM CONSTRUCTION, AND FOR ALL WORK INVOLVING ADJUSTMENT OF SEWER STRUCTURES. THE DEPARTMENT OF WATER MANAGEMENT - SEWER SECTION PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO START OF CONSTRUCTION, THE LICENSED SEWER CONTRACTOR/SUBCONTRACTOR MUST SUBMIT TWO SETS OF PLANS APPROVED BY THE DEPARTMENT OF WATER MANAGEMENT SEWER SECTION FOR THE ISSUE OF THE SEWER PERMIT TO SUITE 400, 333 SOUTH STATE STREET, CHICAGO, IL 60604-3971. INPSECTION WILL BE PROVIDED BY THE DEPARTMENT OF SEWERS.
- IF THE SEWERS PIPE COVER IS REDUCED TO LESS THAN 1 METER (3 FT), CONCRETE ENCASEMENT OF THE SEWER OR REPLACEMENT OF THE SEWER WITH CLASS 52 DUCTILE IRON PIPE WILL BE REQUIRED.
- IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS. PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT - SEWER SECTION AT (312) 747-7892 OR (312) 747-7893.
- PREFORMED LIDS SHALL BE PLACED ON ALL MANHOLES AND CATCH BASINS.
- BENCH MONUMENTS LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT SEWER SECTION AT SUITE 400, 333 SOUTH STATE STREET, CHICAGO, IL 60604-3971. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGE OR DESTROYED DURING CONSTRUCTION.
- SIDEWALK ACCESSIBILITY RAMPS SHALL NOT BE CONSTRUCTED DIRECTLY OVER EXISTING OR PROPOSED DRAINAGE STRUCTURES.
- ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND GRATES OR LIDS ON THE SEWER STRUCTURES SHALL BE REPLACED WITH THE NEW DEPARTMENT OF SEWERS STANDARD FRAMES AND GRATES OR LIDS. OLD FRAMES AND GRATES OR LIDS SHALL BE DELIVERED TO THE DEPARTMENT OF WATER MANAGEMENT - SEWER SECTION AT 39TH STREET AND ASHLAND AVENUE.
- CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES SHALL BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER AND/OR DEPARTMENT OF WATER MANAGEMENT SEWER SECTION.
- THE CONTRACTOR MUST NOTIFY CHICAGO'S OFFICE OF EMERGENCY MANAGEMENT AND COMMUNICATION (OEMC) 48 HOURS BEFORE COMMENCING CONSTRUCTION OR CHANGING TRAFFIC FLOW.
- SAWCUTTING PAVEMENT FOR FRAME AND LID ADJUSTMENTS SPECIALS, AS REQUIRED BY CHICAGO WATER AND CHICAGO SEWER DEPARTMENTS, IS INCIDENTAL AND SHALL BE INCLUDED IN THE COST FOR FRAMES AND LIDS TO BE ADJUSTED (SPECIAL).
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO AND OBTAIN ALL NECESSARY PERMITS.

MODEL: GenNotesSh01 [Sheet]  
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USER NAME = jammal.aramahi	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 171 - N/O FOREST PRESERVE DR TO DES PLAINES RIVER INDEX, HIGHWAY STANDARDS &amp; GENERAL NOTES</b>	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			372	2025-2003-RS	COOK	66	2
CHECKED -	REVISED -	CONTRACT NO. 80B35							
PLOT DATE = 4/20/2026	DATE -	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS

SUMMARY OF QUANTITIES				TYPE CODE									
				URBAN	URBAN	URBAN	RIVER GROVE						
				ROADWAY	TRAFFIC SIGNALS	ROADWAY	TRAFFIC SIGNALS						
				80% FED 20% STATE	80% FED 20% STATE	100% STATE	100% IL 171 AT MALL PLAZA						
Code No.	Item	Unit	Total Quantity	0005	0021	0005	0021						
20200100	EARTH EXCAVATION	CU YD	57	57									
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	355	355									
25200110	SODDING, SALT TOLERANT	SQ YD	355	355									
25200200	SUPPLEMENTAL WATERING	UNIT	6	6									
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	27	27									
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	21	21									
40800290	BITUMINOUS MATERIALS (TACK COAT)	POUND	22951	22951									
40600370	LONGITUDINAL JOINT SEALANT	FOOT	22993	22993									
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	77	77									
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	441	441									
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	2.4	2.4									
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	4998	4998									
42001300	PROTECTIVE COAT	SQ YD	1583	1583									
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	38	38									
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	42	42									
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6216	6216									
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	247	247									
42400800	DETECTABLE WARNINGS	SQ FT	343	343									
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	51003	51003									
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	101	101									
44000600	SIDEWALK REMOVAL	SQ FT	6190	6190									
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	15	15									
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	492	492									
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	41	41									

SUMMARY OF QUANTITIES				TYPE CODE									
				URBAN	URBAN	URBAN	RIVER GROVE						
				ROADWAY	TRAFFIC SIGNALS	ROADWAY	TRAFFIC SIGNALS						
				80% FED 20% STATE	80% FED 20% STATE	100% STATE	100% IL 171 AT MALL PLAZA						
Code No.	Item	Unit	Total Quantity	0005	0021	0005	0021						
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	84	84									
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	8	8									
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3									
60262700	INLETS TO BE RECONSTRUCTED	EACH	2	2									
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2									
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	32	32									
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	6	6									
60404950	FRAMES AND GRATES, TYPE 24	EACH	1	1									
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5									
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	30	30									
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	60	60									
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1									
* 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	15	15									
67100100	MOBILIZATION	L SUM	1	1									
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	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									

\* SPECIAL ITEM

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USER NAME = jammal.aramahi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 - N/O FOREST PRESERVE DR TO DES PLAINES RIVER  
SUMMARY OF QUANTITIES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	3
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

MODEL: SOQ [2] (Sheet)  
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SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	RIVER GROVE		
					ROADWAY	TRAFFIC SIGNALS	ROADWAY	TRAFFIC SIGNALS		
					80% FED 20% STATE	80% FED 20% STATE	100% STATE	100% IL 171 AT MALL PLAZA		
Code No.	Item	Unit	Total Quantity	0005	0021	0005	0021			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	7910	7910						
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2637	2637						
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	973	973						
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	30564	30564						
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	2822	2822						
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	715	715						
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	2959	2959						
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	1627	1627						
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	30564	30564						
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	973	973						
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	30564	30564						
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2822	2822						
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	715	715						
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2959	2959						
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1627	1627						
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	891	891						
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	891	891						
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	200	200						
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	429		375		54			
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	100				100			
* 81400200	HEAVY-DUTY HANDHOLE	EACH	18		16		2			
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6		5		1			
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	4803		4421		382			

\* SPECIAL ITEM

SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	RIVER GROVE		
					ROADWAY	TRAFFIC SIGNALS	ROADWAY	TRAFFIC SIGNALS		
					80% FED 20% STATE	80% FED 20% STATE	100% STATE	100% IL 171 AT MALL PLAZA		
Code No.	Item	Unit	Total Quantity	0005	0021	0005	0021			
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1367			969	398			
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	953				953			
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	881	412			469			
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1777			1702	75			
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	372			187	185			
* 87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1				1			
* 87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1				1			
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	2				2			
* 87900200	DRILL EXISTING HANDHOLE	EACH	9		7		2			
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5				5			
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	1	1						
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2				2			
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2				2			
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2				2			
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	11		7		4			
88200410	TRAFFIC SIGNAL BACKPLATE LOUVERED, FORMED PLASTIC	EACH	1	1						
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	10		8		2			
* 88600100	DETECTOR LOOP, TYPE I	FOOT	3195		2944		251			
* 89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	3		2		1			
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5295		5152		143			
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6		5		1			
* 89502376	REBUILD EXISTING HANDHOLE	EACH	6		4		2			
* 89502380	REMOVE EXISTING HANDHOLE	EACH	17		17					

USER NAME = jammal.aramahi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 171 - N/O FOREST PRESERVE DR TO DES PLAINES RIVER  
 SUMMARY OF QUANTITIES**

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

F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 4
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES				TYPE CODE					
				URBAN	URBAN	URBAN	RIVER GROVE		
				ROADWAY	TRAFFIC SIGNALS	ROADWAY	TRAFFIC SIGNALS		
				80% FED 20% STATE	80% FED 20% STATE	100% STATE	100% IL 171 AT MALL PLAZA		
Code No.	Item	Unit	Total Quantity	0005	0021	0005	0021		
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	424	424					
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3	1			2		
X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3		2		1		
X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	118	118					
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	209	209					
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	4123	4123					
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	2175			2175			
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	53	53					
X6350120	DELINEATOR REMOVAL	EACH	45	45					
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12					
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	154	154					
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	32		28		4		
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24		12		12		
X8809005	LED SIGNAL FACE, LENS COVER	EACH	11				11		
X8891001	VIDEO VEHICLE DETECTION SYSTEM	EACH	2		1		1		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	145			145			
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	6		5		1		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
Z0100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	9	9					
Z0100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	22	22					
X2010100	TREE LIMB REMOVAL (4 TO 10 INCHES DIAMETER)	UNIT	2	2					
X2010200	TREE LIMB REMOVAL (OVER 10 INCHES DIAMETER)	UNIT	3	3					

SUMMARY OF QUANTITIES				TYPE CODE					
				URBAN	URBAN	URBAN	RIVER GROVE		
				ROADWAY	TRAFFIC SIGNALS	ROADWAY	TRAFFIC SIGNALS		
				80% FED 20% STATE	80% FED 20% STATE	100% STATE	100% IL 171 AT MALL PLAZA		
Code No.	Item	Unit	Total Quantity	0005	0021	0005	0021		
K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	1					
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	L SUM	1	1					

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\* SPECIAL ITEM

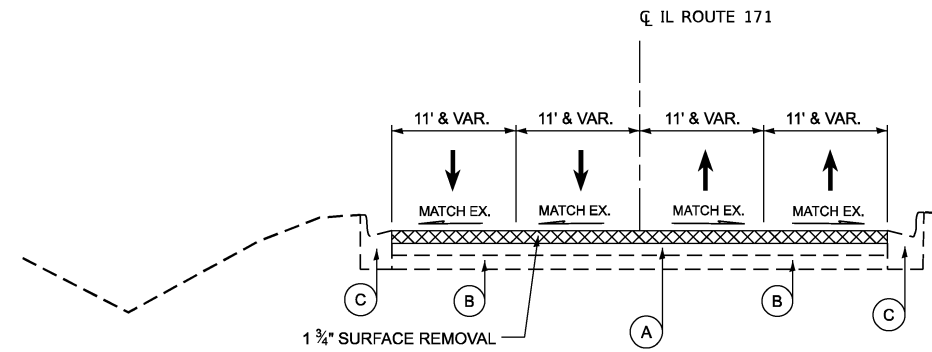
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PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 - N/O FOREST PRESERVE DR TO DES PLAINES RIVER  
SUMMARY OF QUANTITIES**

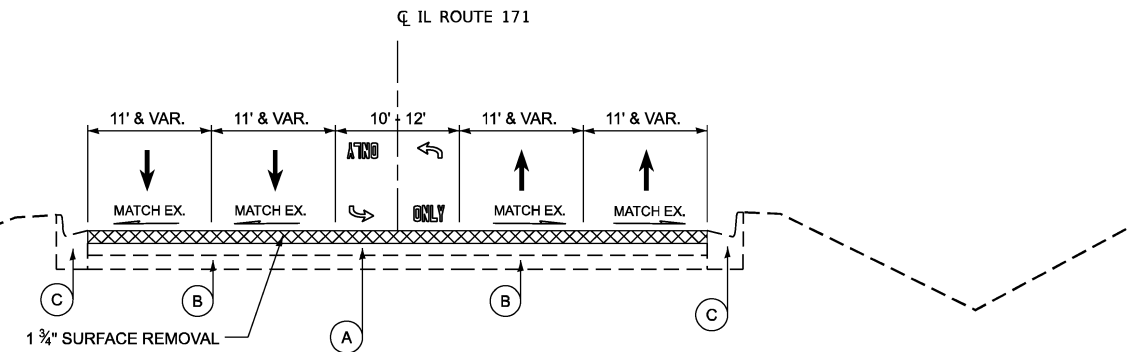
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	5
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	



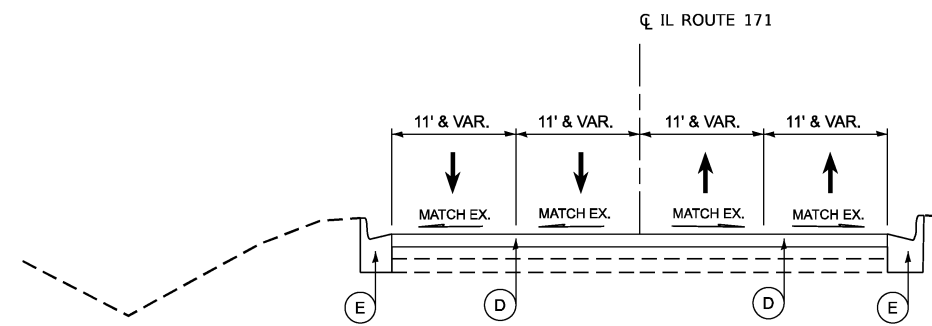
**EXISTING TYPICAL CROSS SECTION**

STA. 72+90 TO STA. 167+69  
 STA. 191+52 TO STA. 200+19  
 EX STRUCTURE AND BRIDGE OMISSION  
 STA. 120+76 TO STA. 120+14



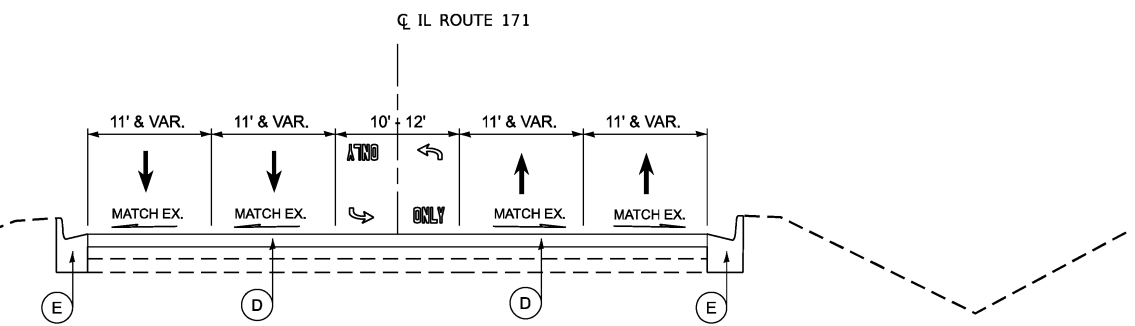
**EXISTING TYPICAL CROSS SECTION**

STA. 72+90 TO STA. 167+69  
 STA. 191+52 TO STA. 200+19  
 EX STRUCTURE AND BRIDGE OMISSION  
 STA. 120+76 TO STA. 120+14



**PROPOSED TYPICAL CROSS SECTION**

STA. 72+90 TO STA. 167+69  
 STA. 191+52 TO STA. 200+19  
 EX STRUCTURE AND BRIDGE OMISSION  
 STA. 120+76 TO STA. 120+14



**PROPOSED TYPICAL CROSS SECTION**

STA. 72+90 TO STA. 167+69  
 STA. 191+52 TO STA. 200+19  
 EX STRUCTURE AND BRIDGE OMISSION  
 STA. 120+76 TO STA. 120+14

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
	MIX DESIGN	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
<b>SMART OVERLAY</b>	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"	3.5% @ 80 GYR.	QCP
<b>DRIVEWAY</b>	HOT-MIX ASPHALT BASE COURSE, 6" (HMA BINDER IL-19.0)	4% @ 50 GYR.	QC/QA
	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"	4% @ 50 GYR.	QC/QA
<b>PATCHING</b>	CLASS D PATCH (HMA BINDER IL-19.0)	4% @ 70 GYR.	QC/QA

QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA), QUALITY CONTROL FOR PERFORMANCE (QCP), PAY FOR PERFORMANCE (PPF)

**LEGEND**

- (A) EXISTING HOT-MIX ASPHALT 3" AND VARIES
  - (B) PORTLAND CEMENT CONCRETE BASE COURSE, ± 10"
  - (C) EXISTING COMBINATION CONCRETE CURB AND GUTTER
  - (D) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
  - (E) COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
- REMOVAL ITEM

**NOTES**

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES QUANTITIES IS 112 LBS/SQ YD/ IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS PG 76-22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
- THE CONTRACTOR SHALL MILL THEN PATCH.
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

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PLOT DATE = 4/14/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

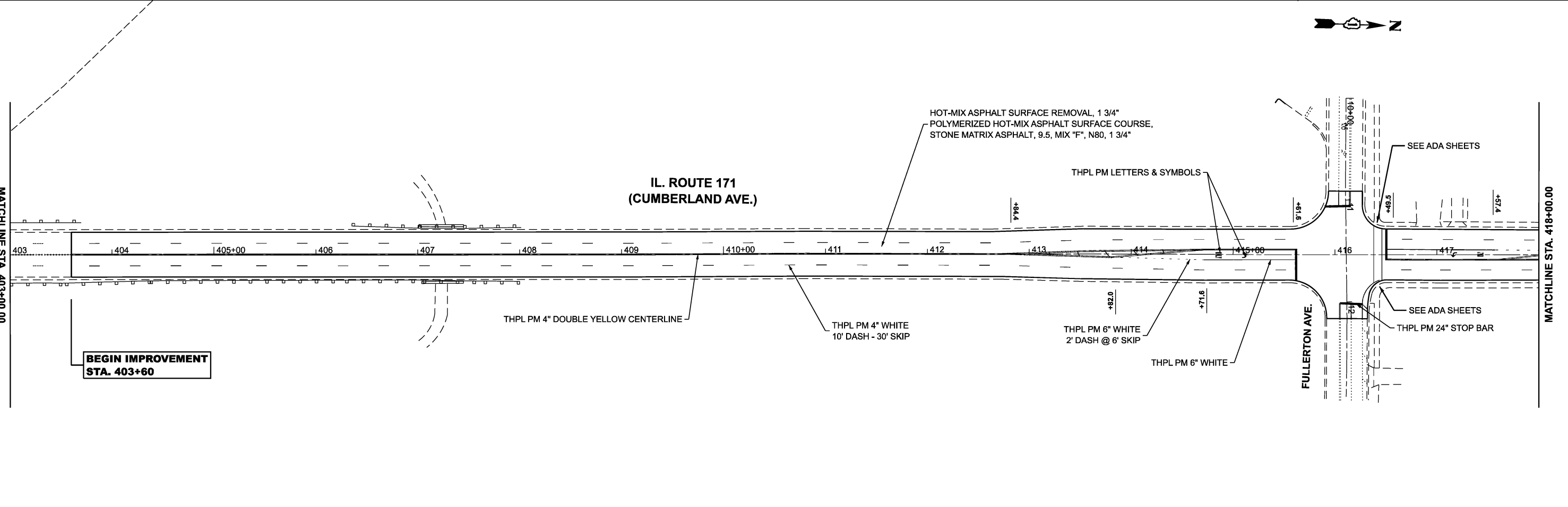
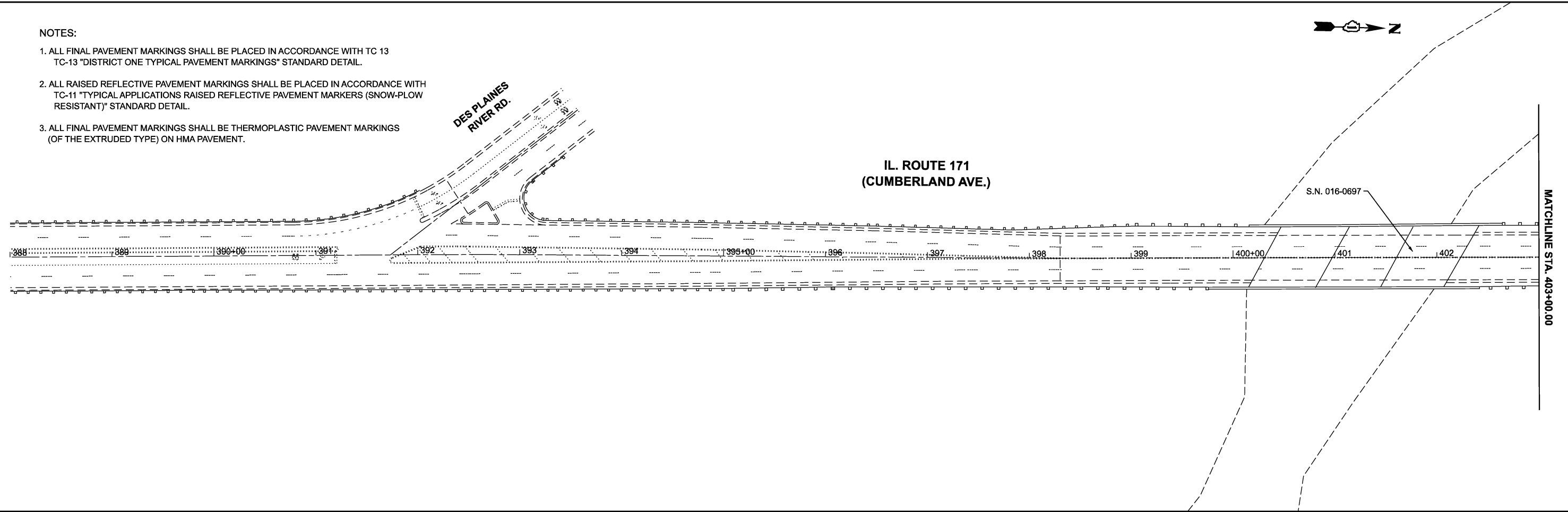
**TYPICAL SECTIONS  
 IL RTE 171 - N/O FOREST PRESERVE DR TO DES PLAINES RIVER**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	65	6
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC 13 TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
2. ALL RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.
3. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.



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

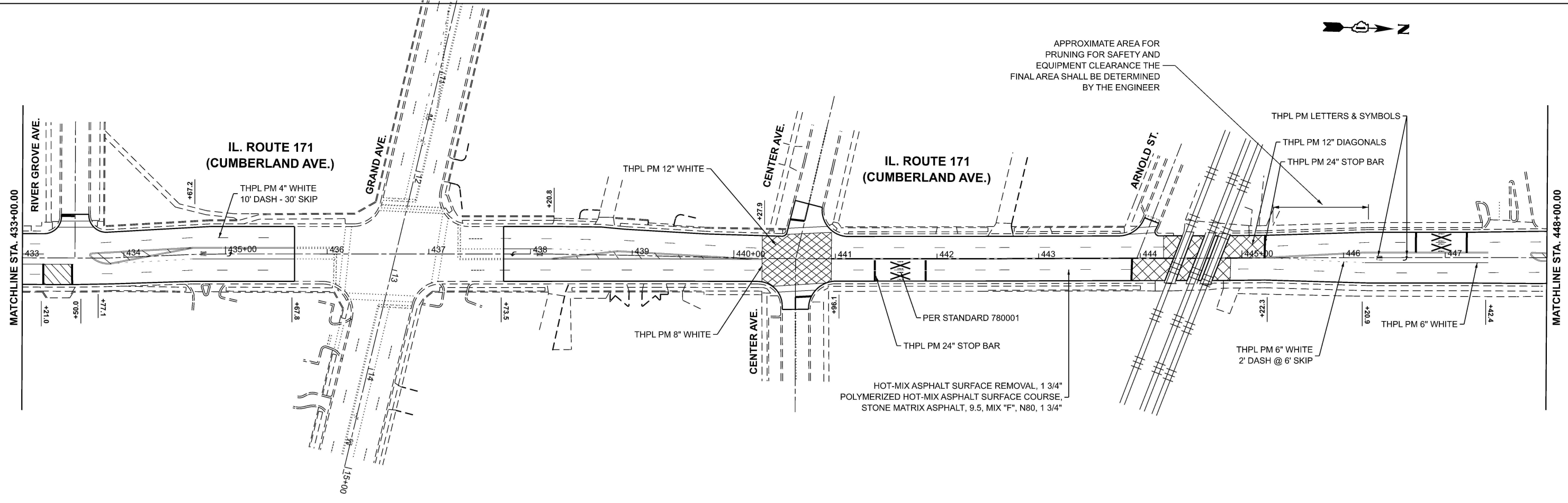
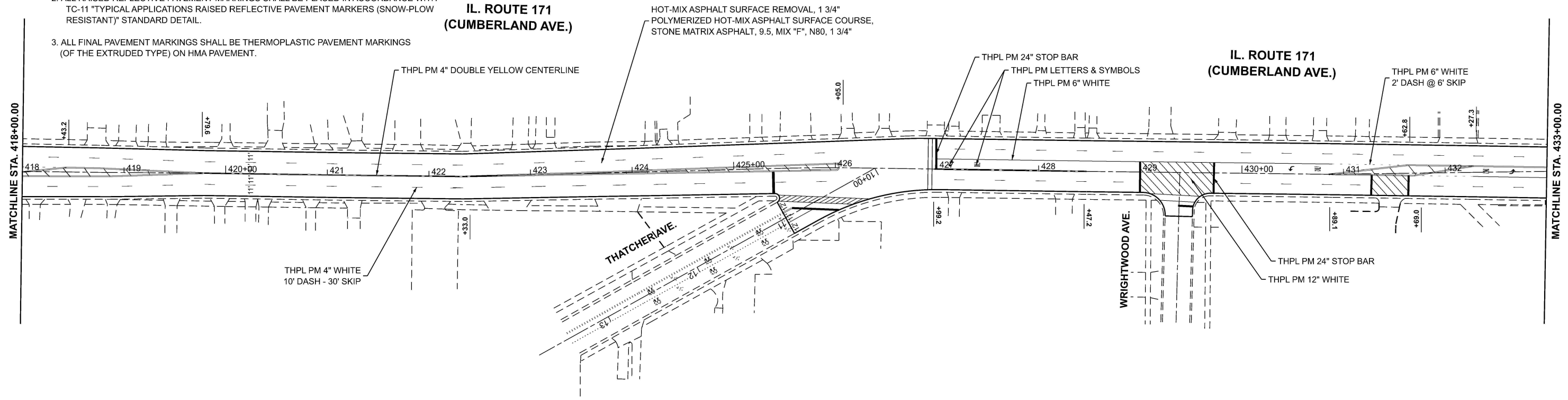
**IL 171 (CUMBERLAND AVE)**  
**FOREST PRESERVE DR TO DES PLAINES RIVER RD**

SCALE: 1"=50'    SHEET 1 OF 4 SHEETS    STA. 388+00.00 TO STA. 418+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	7
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC 13 TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
2. ALL RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.
3. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.



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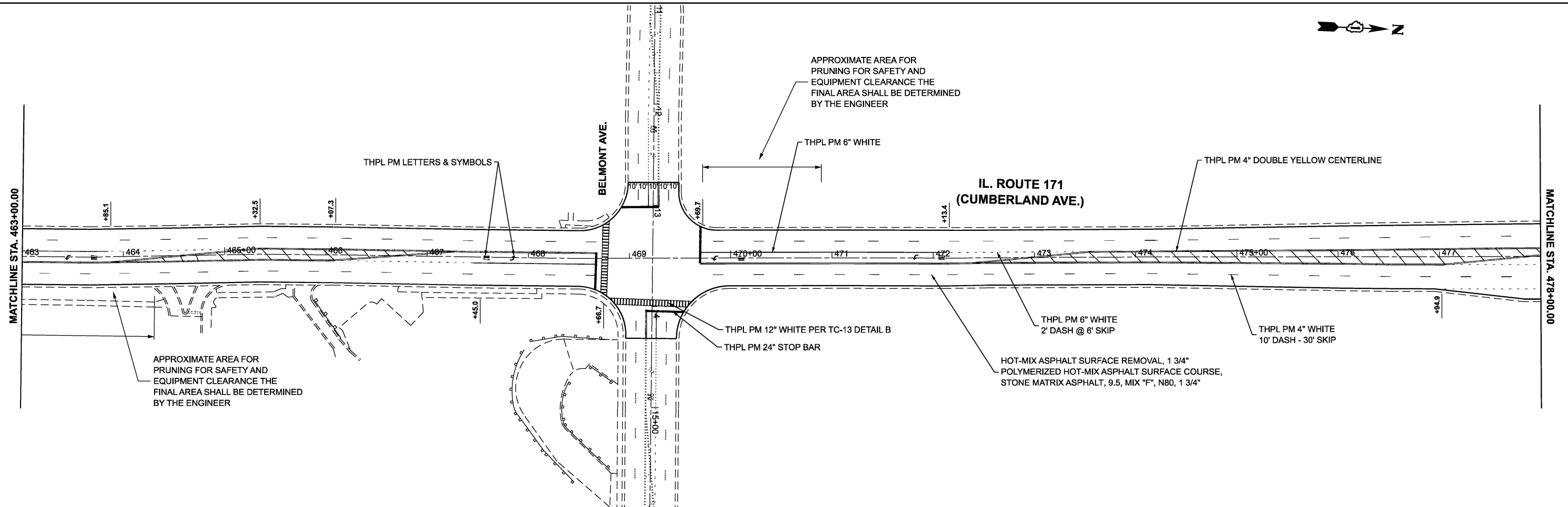
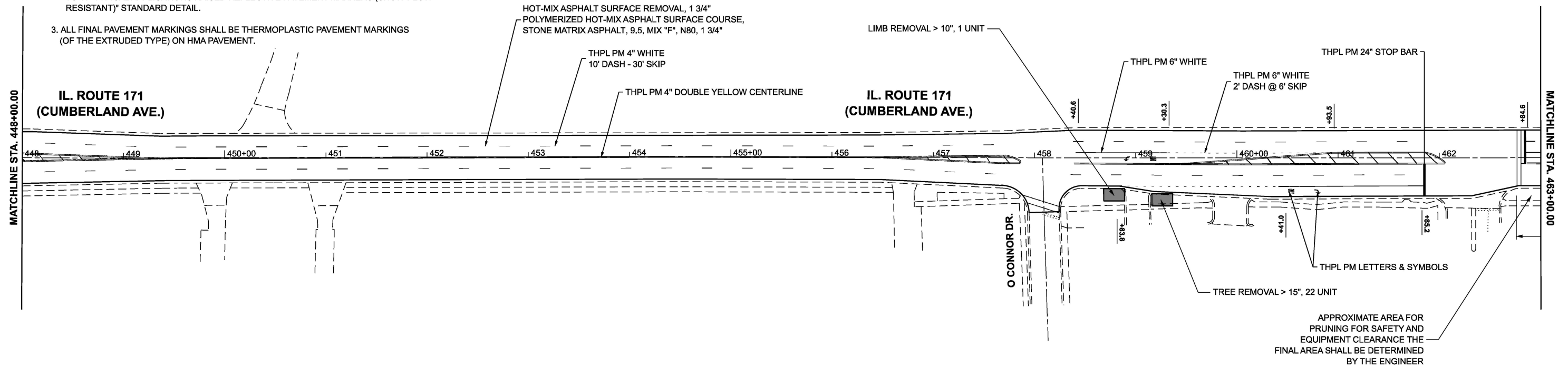
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL 171 (CUMBERLAND AVE)**  
**FOREST PRESERVE DR TO DES PLAINES RIVER RD**  
 SCALE: 1"=50'    SHEET 2 OF 4 SHEETS    STA. 418+00.00 TO STA. 448+00.00

F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 8
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC 13 TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
2. ALL RAISED REFLECTIVE PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.
3. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 171 (CUMBERLAND AVE)  
FOREST PRESERVE DR TO DES PLAINES RIVER RD**

SCALE: 1"=50'      SHEET 3 OF 4 SHEETS      STA. 448+00.00 TO STA. 478+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	66	9
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

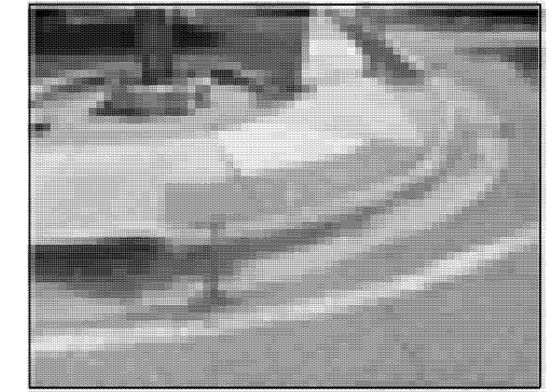




NORTHWEST CORNER



EXISTING



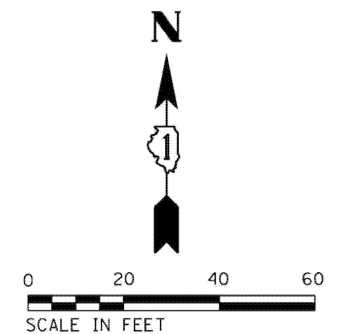
NORTHEAST CORNER



PROPOSED

**LEGEND**

- DETECTABLE WARNING
- SIDEWALK REMOVAL
- NEW PCC SIDEWALK
- REMOVE AND REPLACE NEW PCC SIDEWALK
- COMBINATION CONCRETE CURB AND GUTTER
- EXISTING R.O.W. LINE
- SINGLE POST SIGN
- ABOVE GROUND SPLICE BOX
- CONTROLLER BOX
- FIRE HYDRANT
- GUY POLE
- HANDHOLE
- LIGHT STANDARD
- MANHOLE
- POWER LINE
- TELEPHONE
- TRAFFIC SIGNAL
- VEGETATION OUTLINE
- SINGLE TREE OR BUSH



**NOTE:**  
 PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

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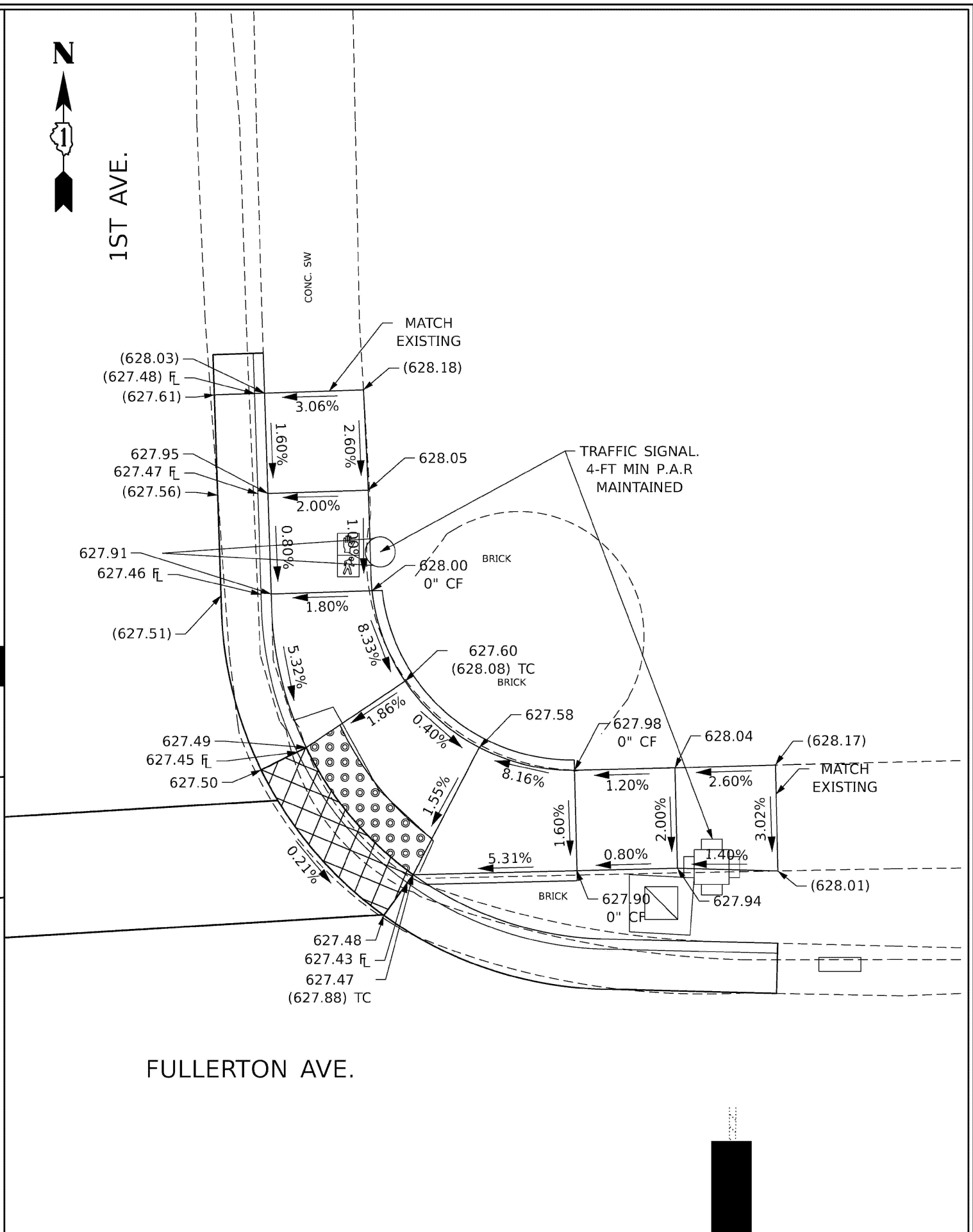
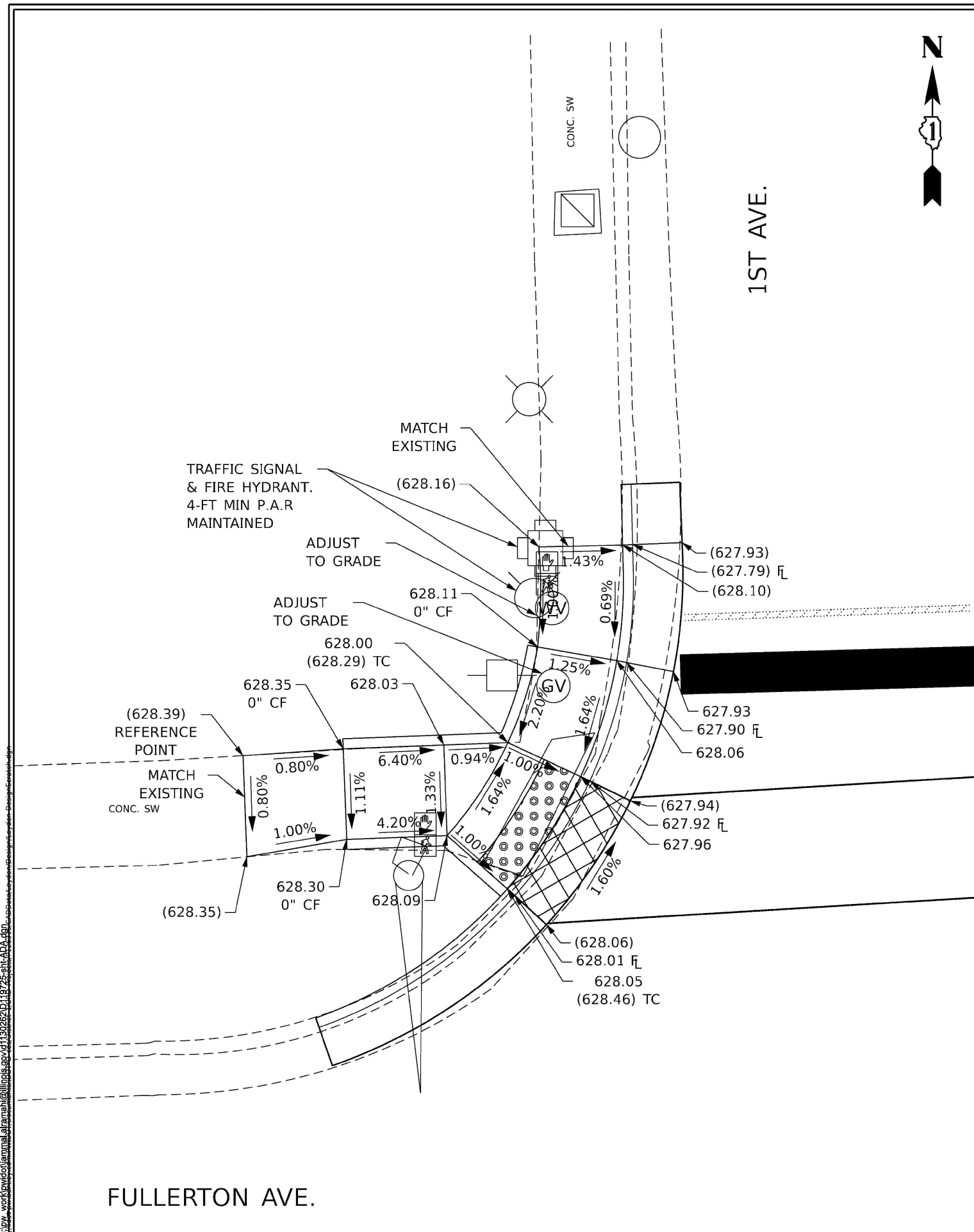
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP IMPROVEMENTS  
 IL 171 AT FULLERTON AVE**

SCALE: SHEET 1 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	11
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	

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FULLERTON AVE.

FULLERTON AVE.

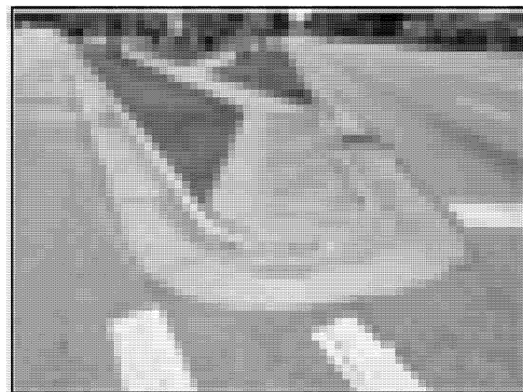
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ADA RAMP IMPROVEMENTS  
 IL 171 AT FULLERTON AVE

SCALE: SHEET 2 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	12
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



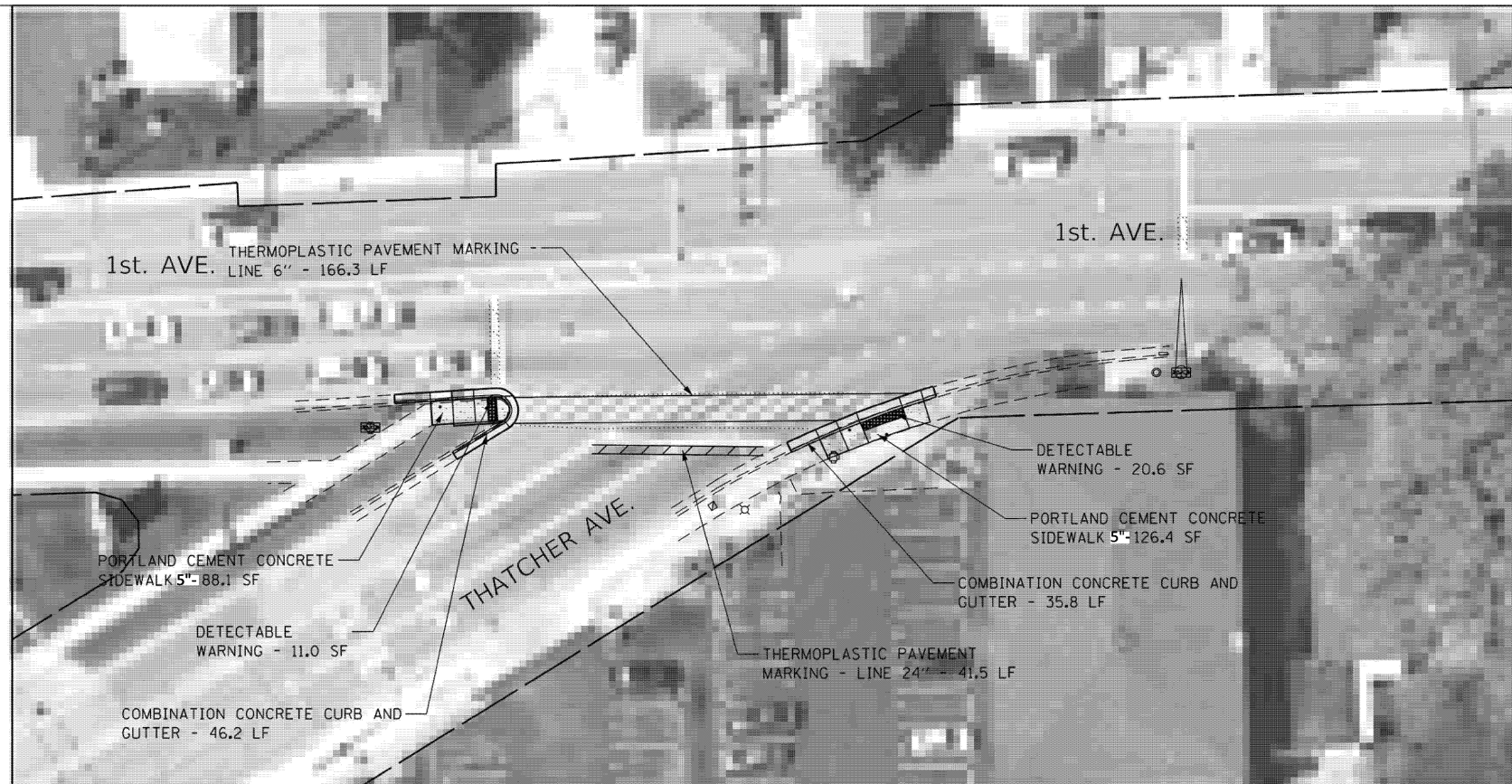
SOUTHEAST CORNER



EXISTING






















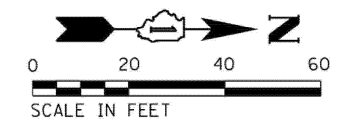
NORTHEAST CORNER



PROPOSED

**LEGEND**

-  DETECTABLE WARNING
-  SIDEWALK REMOVAL
-  NEW PCC SIDEWALK
-  REMOVE AND REPLACE NEW PCC SIDEWALK
-  COMBINATION CONCRETE CURB AND GUTTER
-  EXISTING R.O.W. LINE
-  SINGLE POST SIGN
-  ABOVE GROUND SPLICE BOX
-  CONTROLLER BOX
-  FIRE HYDRANT
-  GUY POLE
-  HANDHOLE
-  LIGHT STANDARD
-  MANHOLE
-  POWER LINE
-  TELEPHONE
-  TRAFFIC SIGNAL
-  VEGETATION OUTLINE
-  SINGLE TREE OR BUSH



**NOTE:**  
 PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

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PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

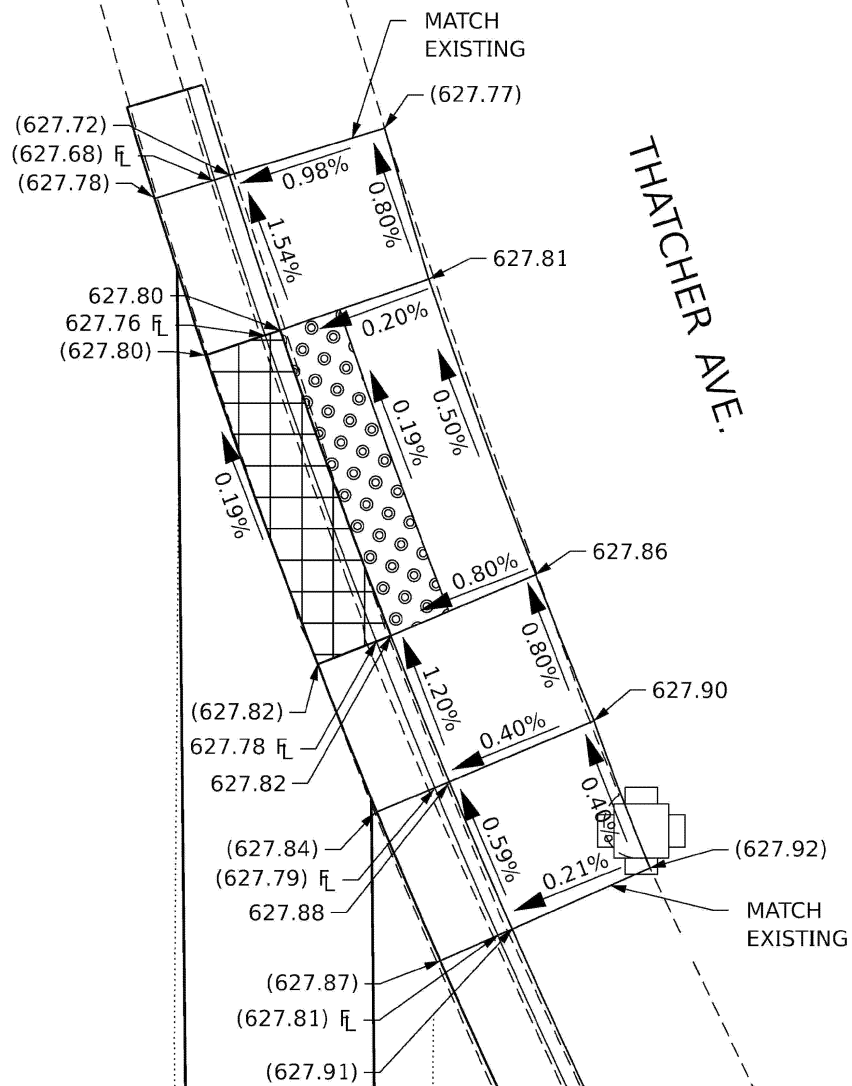
**ADA RAMP IMPROVEMENTS  
 IL 171 AT THATCHER AVE**

SCALE: SHEET 3 OF 17 SHEETS STA. TO STA.

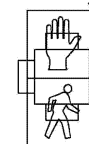
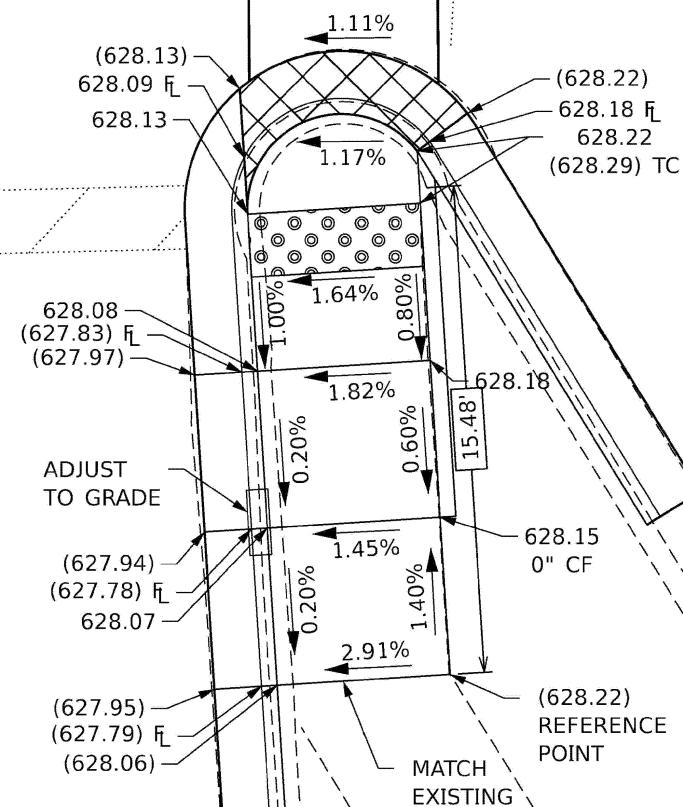
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	13
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



1ST AVE.



1ST AVE.



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PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

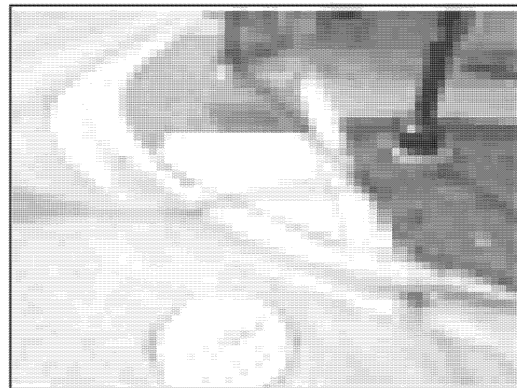
**ADA RAMP IMPROVEMENTS  
IL 171 AT THATCHER AVE**

SCALE: SHEET 4 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 14
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



NORTHWEST CORNER



SOUTHWEST CORNER



EXISTING



PROPOSED

**LEGEND**

- DETECTABLE WARNING
- SIDEWALK REMOVAL
- NEW PCC SIDEWALK
- REMOVE AND REPLACE NEW PCC SIDEWALK
- COMBINATION CONCRETE CURB AND GUTTER
- EXISTING R.O.W. LINE
- SINGLE POST SIGN
- ABOVE GROUND SPLICE BOX
- CONTROLLER BOX
- FIRE HYDRANT
- GUY POLE
- HANDHOLE
- LIGHT STANDARD
- MANHOLE
- POWER LINE
- TELEPHONE
- TRAFFIC SIGNAL
- VEGETATION OUTLINE
- SINGLE TREE OR BUSH



**NOTE:**  
 PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP IMPROVEMENTS  
 IL 171 AT RIVER GROVE AVE**

SCALE: SHEET 5 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80B35	



BRICK SW

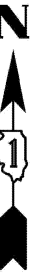
THATCHER AVE.

MATCH EXISTING  
(628.47)  
BRICK SW  
(628.37)  
(628.04) FL  
(628.13)  
ADJUST TO GRADE  
(628.51) REFERENCE POINT  
5.00% 2.50%  
CONC  
0.25%

(628.49) REFERENCE POINT  
628.47  
628.40  
0.40%  
1.32%  
1.40%  
1.104%  
1.41%  
CONC  
0.25%  
1.49%  
0.40%  
1.27%  
BRICK SW  
1.09%  
0.86%  
1.20%  
1.29%  
628.35  
628.06 FL  
(628.09)  
628.30  
(628.14) FL  
628.15  
628.34  
628.21  
628.17 FL  
(628.19)

628.23  
(628.41) TC  
628.19 FL  
(628.21)

RIVER GROVE AVE.



RIVER GROVE AVE.

628.10  
628.08 FL  
628.12  
(3) TC

0.13%  
(628.11)  
628.09 FL  
628.13  
628.16  
628.36  
0" CF  
(628.37)  
MATCH EXISTING  
0.20%  
2.96%  
1.40%  
1.82%  
628.32  
BRICK  
5.13%  
0.16%  
0.80%  
0.71%  
0.86%  
3.47%  
4.81%  
(628.14)  
628.13 FL  
628.30  
(628.19)  
(628.12) FL  
628.35  
628.46  
628.40  
ADJUST TO GRADE  
(628.43)  
MATCH EXISTING  
3.18%  
1.20%  
(628.14)  
(628.05) FL  
(628.29)  
BRICK SW  
CONC. SW  
DIRT

THATCHER AVE.

MODEL: ADA06  
FILE: 20260310.dwg, work\civil\alramahi\illinois\cv\1130262\118725-sh1-ADA.dwg  
DATE: 3/20/2026 11:18:25 AM

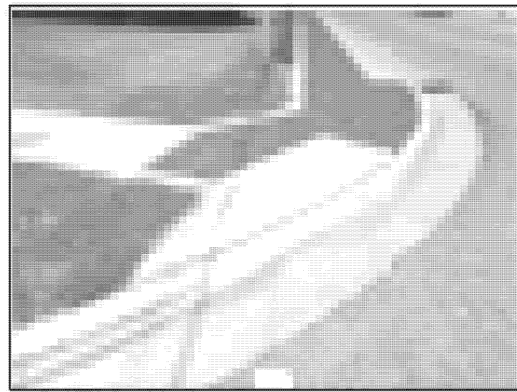
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

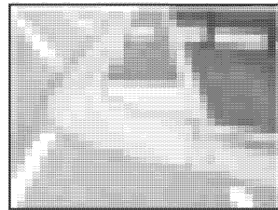
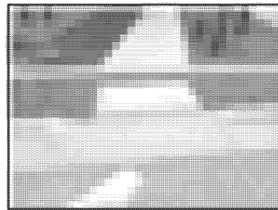
ADA RAMP IMPROVEMENTS  
IL 171 AT RIVER GROVE AVE

SCALE: SHEET 6 OF 17 SHEETS STA. TO STA.

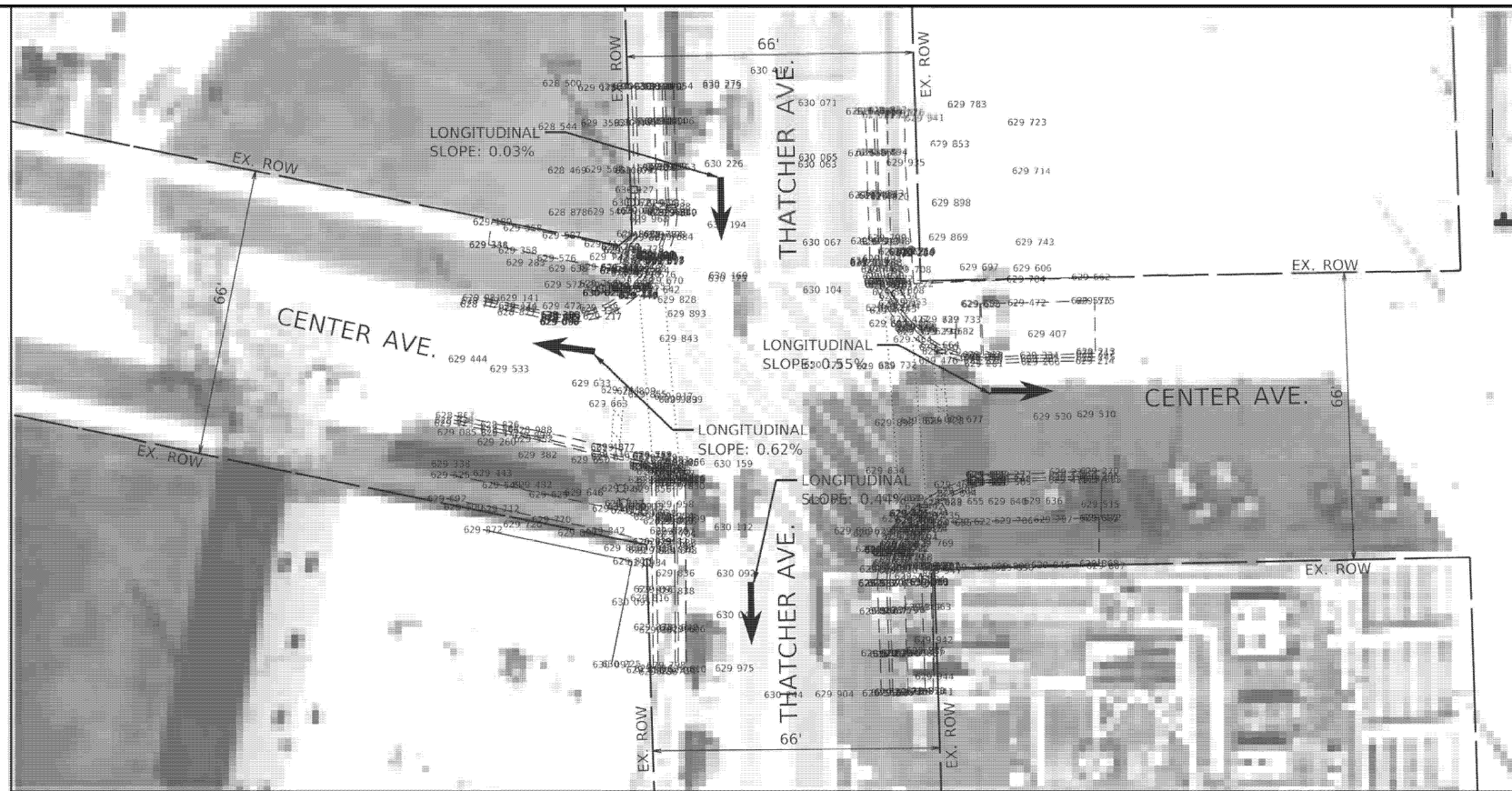
F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 16
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



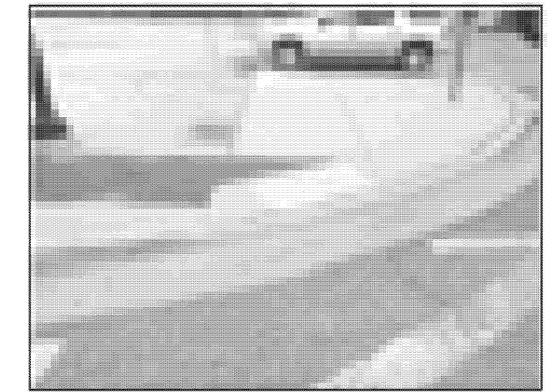
NORTHWEST CORNER



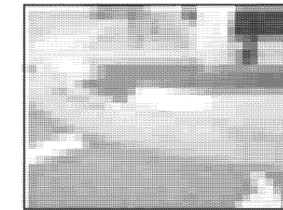
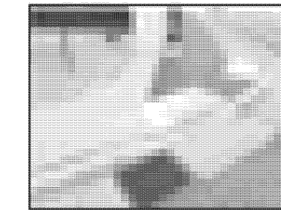
SOUTHWEST CORNER



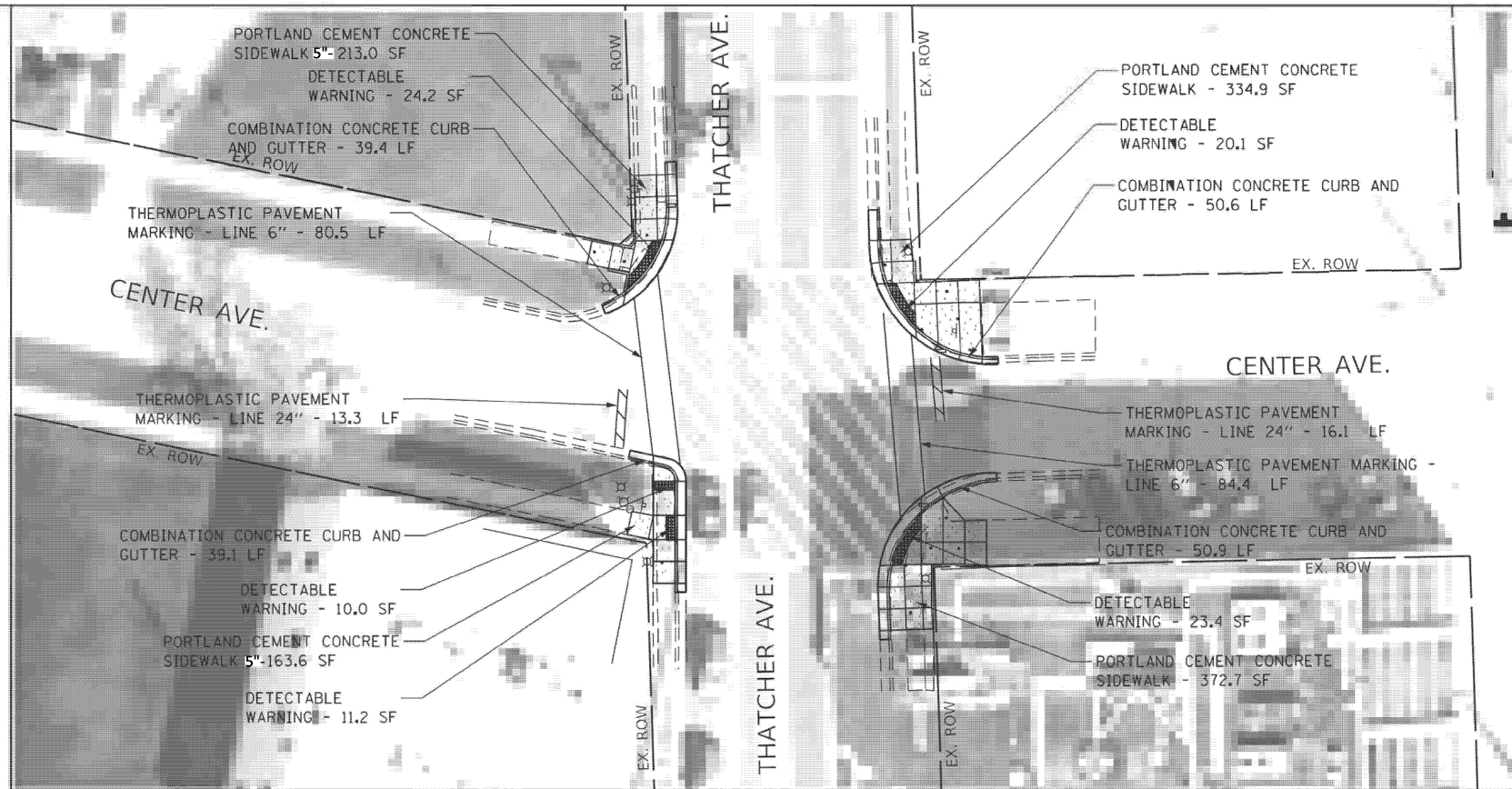
EXISTING



NORTHEAST CORNER

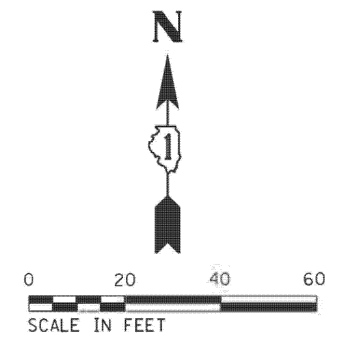


SOUTHEAST CORNER



PROPOSED

- LEGEND**
- DETECTABLE WARNING
  - SIDEWALK REMOVAL
  - NEW PCC SIDEWALK
  - REMOVE AND REPLACE NEW PCC SIDEWALK
  - COMBINATION CONCRETE CURB AND GUTTER
  - EXISTING R.O.W. LINE
  - SINGLE POST SIGN
  - ABOVE GROUND SPLICE BOX
  - CONTROLLER BOX
  - FIRE HYDRANT
  - GUY POLE
  - HANDHOLE
  - LIGHT STANDARD
  - MANHOLE
  - POWER LINE
  - TELEPHONE
  - TRAFFIC SIGNAL
  - VEGETATION OUTLINE
  - SINGLE TREE OR BUSH



**NOTE:**  
 PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

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 FILE NAME: c:\pwworking\jammal.aramahi@illinois.gov\1130262\119725-sht-ADA.dgn

USER NAME = jammal.aramahi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

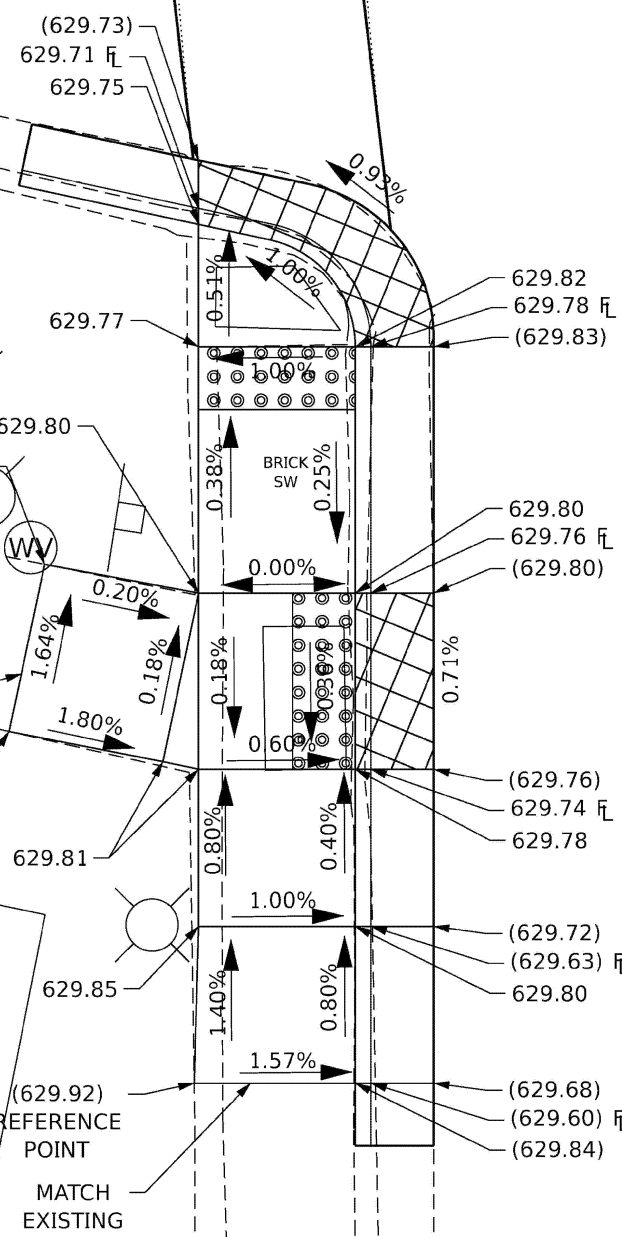
ADA RAMP IMPROVEMENTS  
 IL 171 AT CENTER AVE

SCALE: SHEET 7 OF 17 SHEETS STA. TO STA.

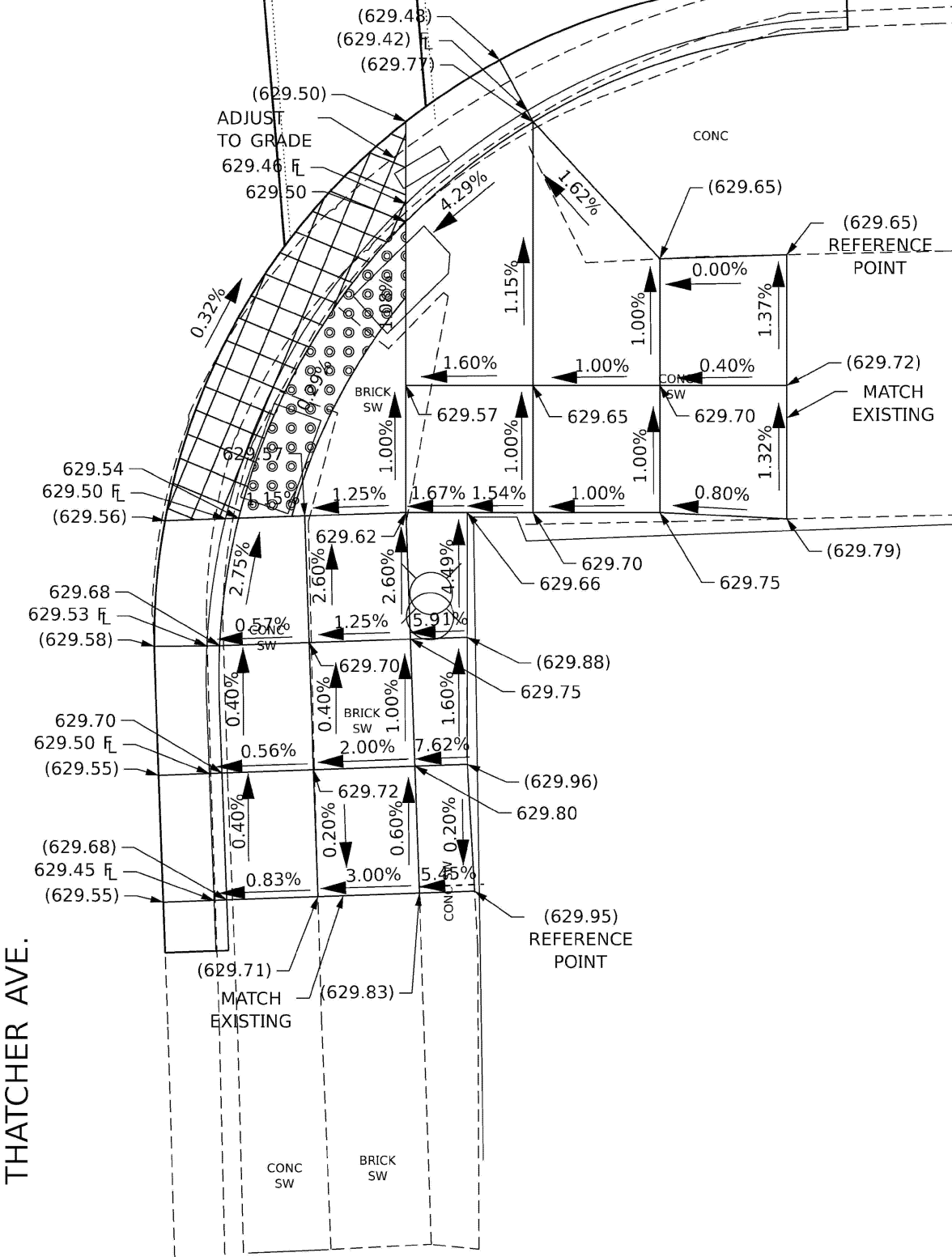
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	17
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



CENTER AVE.



THATCHER AVE.



THATCHER AVE.

MODEL: ADA09  
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 PLOT DATE: 3/20/2026

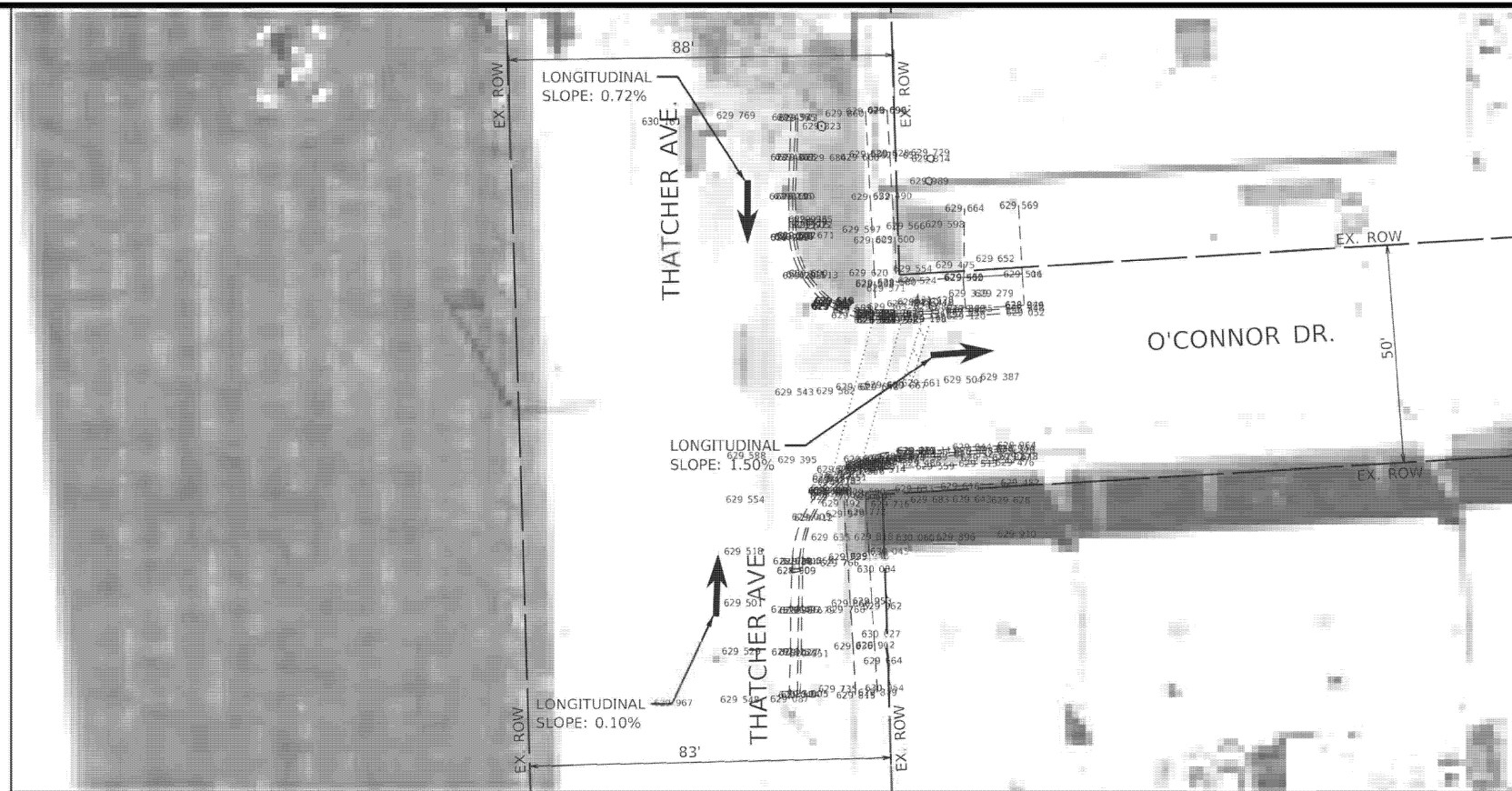
USER NAME = jammal.alramahi	DESIGNED -	REVISED -
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PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

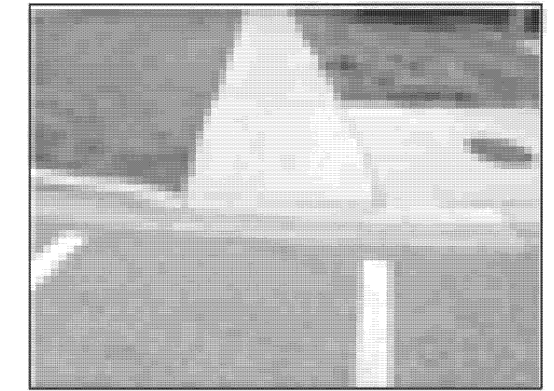
ADA RAMP IMPROVEMENTS  
IL 171 AT CENTER AVE

SCALE: SHEET 9 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 19
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



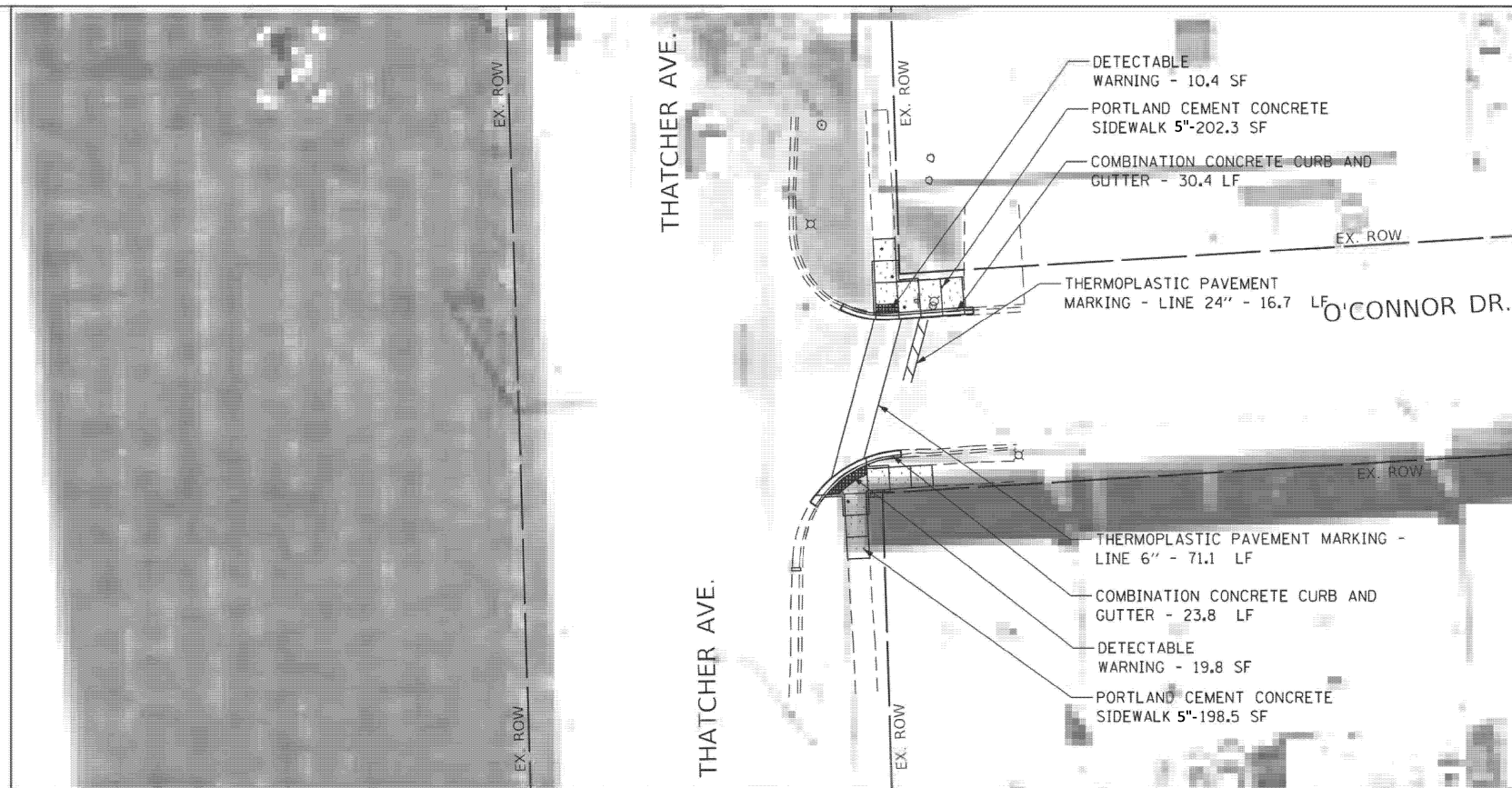
**EXISTING**



**NORTHEAST CORNER**



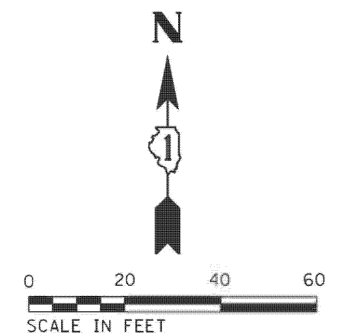
**SOUTHEAST CORNER**



**PROPOSED**

**LEGEND**

- DETECTABLE WARNING
- SIDEWALK REMOVAL
- NEW PCC SIDEWALK
- REMOVE AND REPLACE NEW PCC SIDEWALK
- COMBINATION CONCRETE CURB AND GUTTER
- EXISTING R.O.W. LINE
- SINGLE POST SIGN
- ABOVE GROUND SPLICE BOX
- CONTROLLER BOX
- FIRE HYDRANT
- GUY POLE
- HANDHOLE
- LIGHT STANDARD
- MANHOLE
- POWER LINE
- TELEPHONE
- TRAFFIC SIGNAL
- VEGETATION OUTLINE
- SINGLE TREE OR BUSH



**NOTE:**  
 PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

MODEL: ADA10  
 FILE NAME: c:\p\work\wisc\jammal.aramahi@illinois.gov\1130262\119725-sht-ADA.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

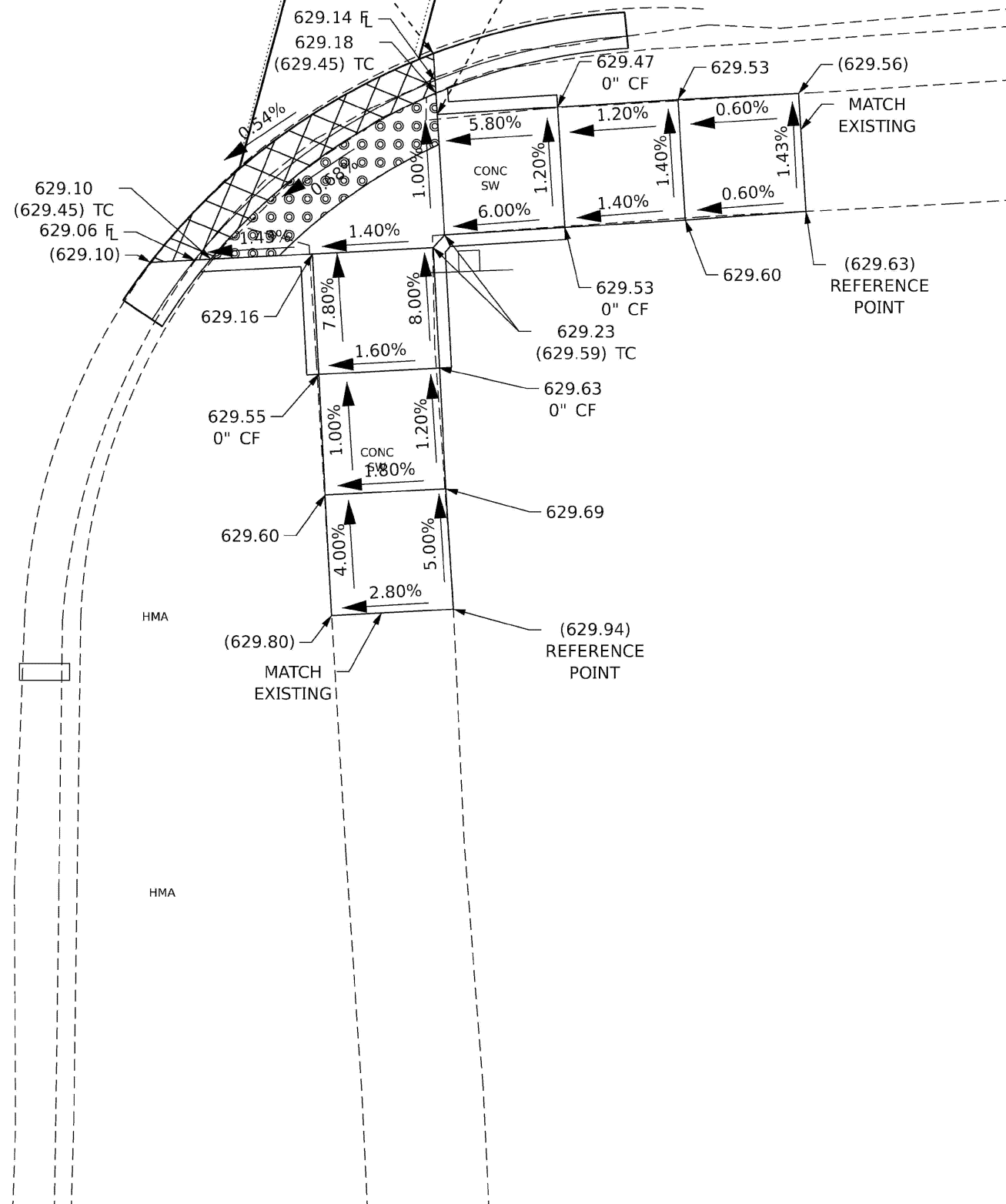
**ADA RAMP IMPROVEMENTS  
 IL 171 AT O'CONNOR DR**

SCALE: SHEET 10 OF 17 SHEETS STA. TO STA.

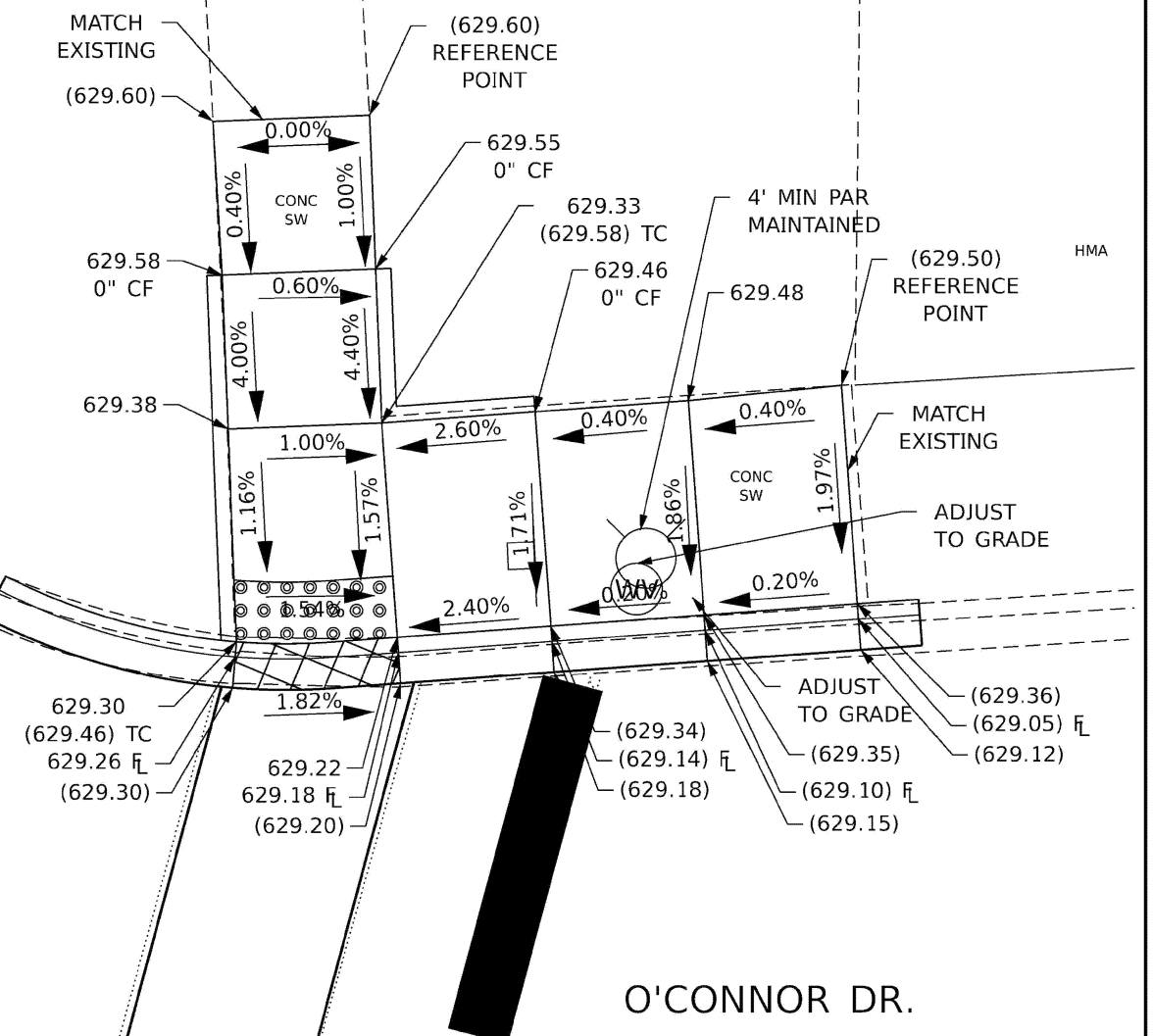
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	20
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

MODEL: ADA11  
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 PLOT DATE: 3/20/2026

THATCHER AVE.



THATCHER AVE.



O'CONNOR DR.

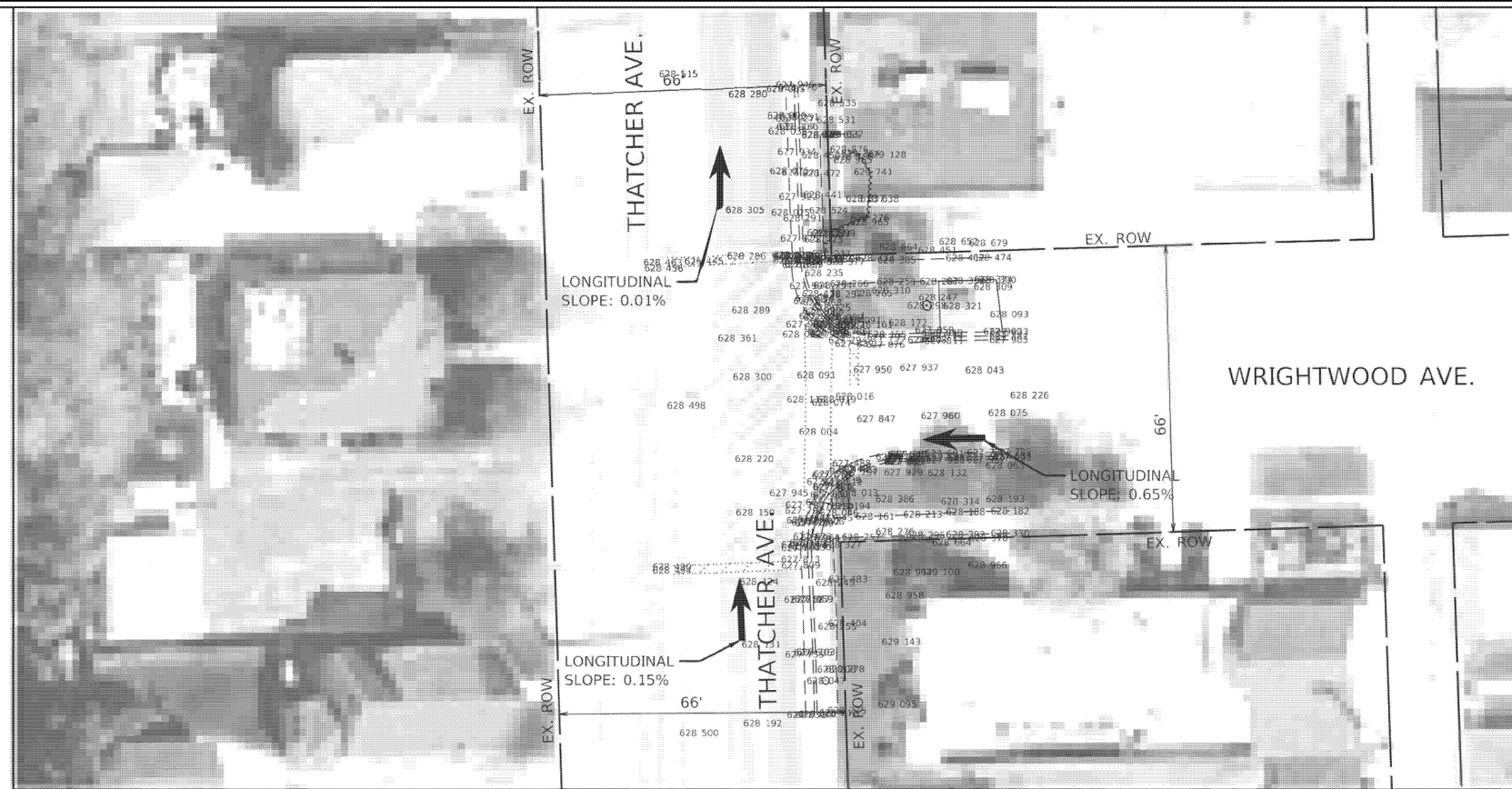
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ADA RAMP IMPROVEMENTS  
 IL 171 AT O'CONNOR DR

SCALE: SHEET 11 OF 17 SHEETS STA. TO STA.

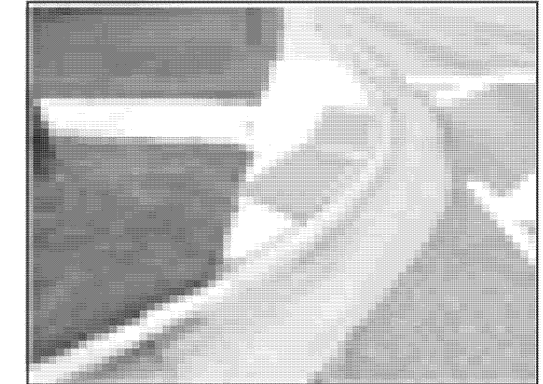
F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 21
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



**EXISTING**



**NORTHEAST CORNER**



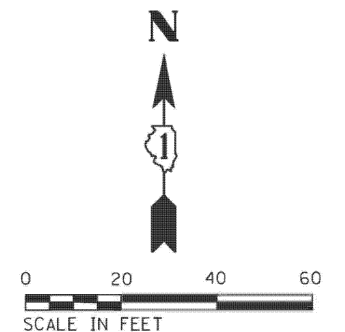
**SOUTHEAST CORNER**



**PROPOSED**

**LEGEND**

- DETECTABLE WARNING
- SIDEWALK REMOVAL
- NEW PCC SIDEWALK
- REMOVE AND REPLACE NEW PCC SIDEWALK
- COMBINATION CONCRETE CURB AND GUTTER
- EXISTING R.O.W. LINE
- SINGLE POST SIGN
- ABOVE GROUND SPLICE BOX
- CONTROLLER BOX
- FIRE HYDRANT
- GUY POLE
- HANDHOLE
- LIGHT STANDARD
- MANHOLE
- POWER LINE
- TELEPHONE
- TRAFFIC SIGNAL
- VEGETATION OUTLINE
- SINGLE TREE OR BUSH



**NOTE:**  
 PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

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	DRAWN -	REVISED -
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PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

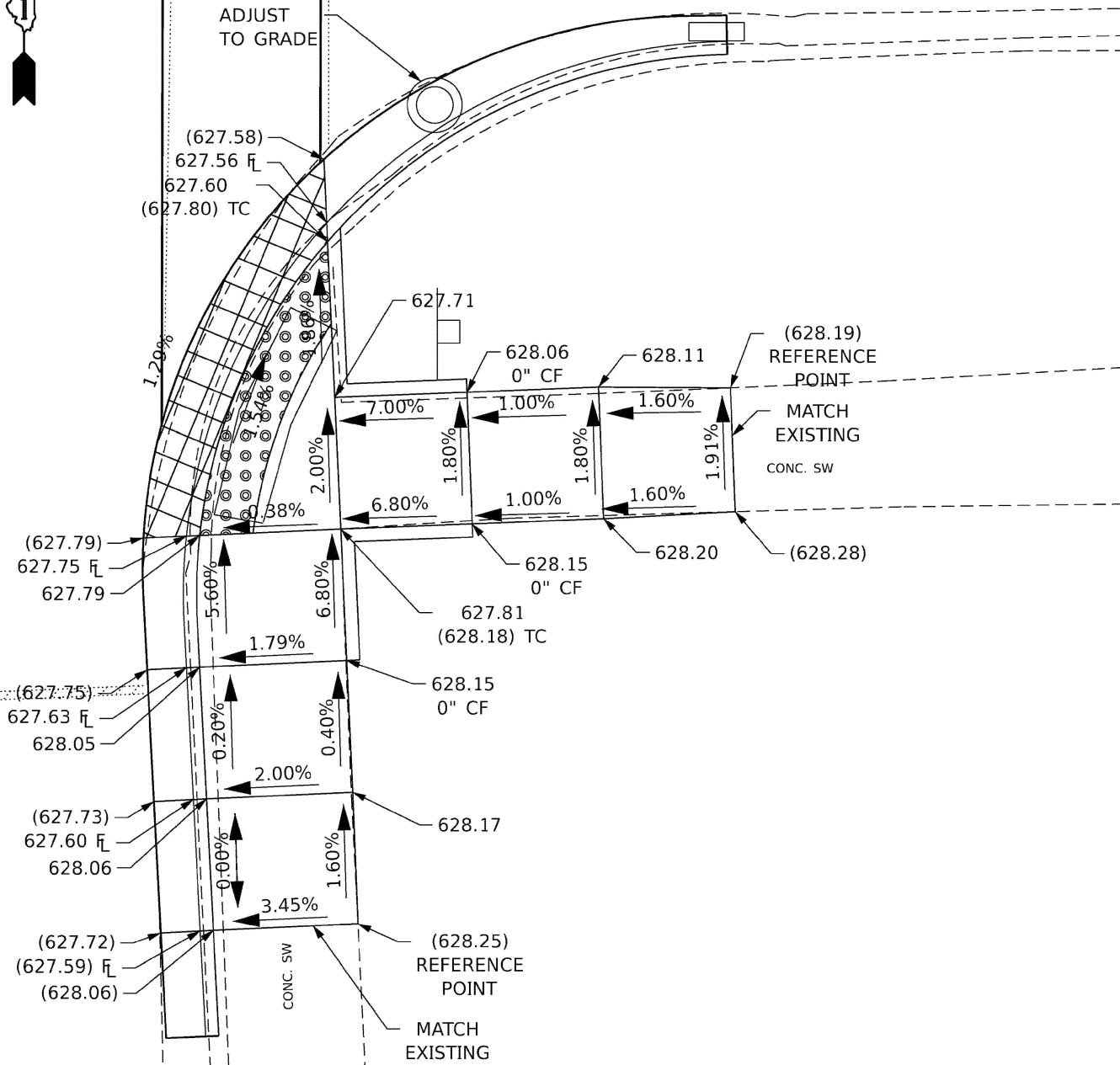
**ADA RAMP IMPROVEMENTS  
 IL 171 AT WRIGHTWOOD AVE**

SCALE: SHEET 12 OF 17 SHEETS STA. TO STA.

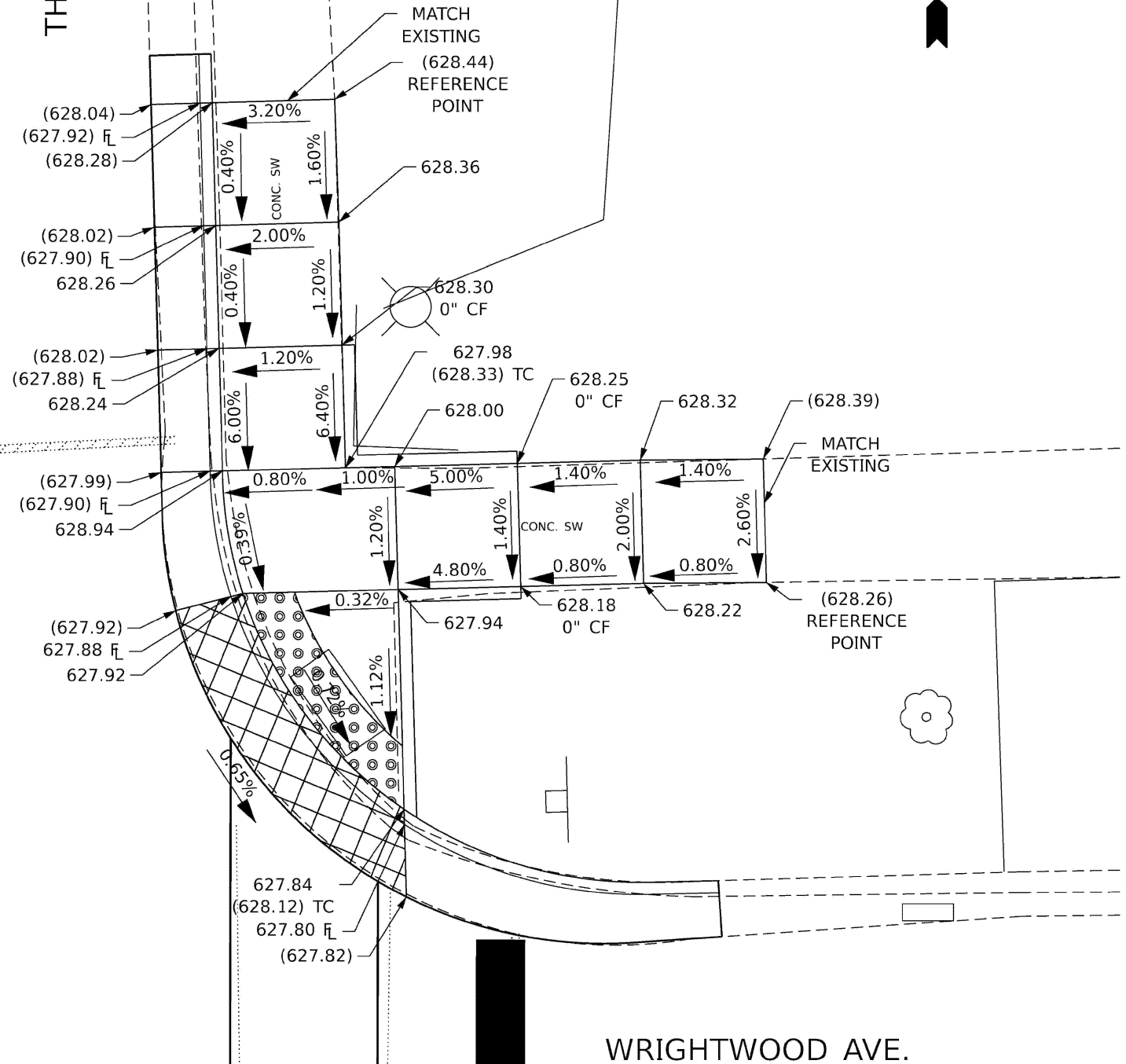
F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 22
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	



WRIGHTWOOD AVE.



THATCHER AVE.



THATCHER AVE.

WRIGHTWOOD AVE.

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DATE PLOTTED: 3/20/2026 10:58:58 AM

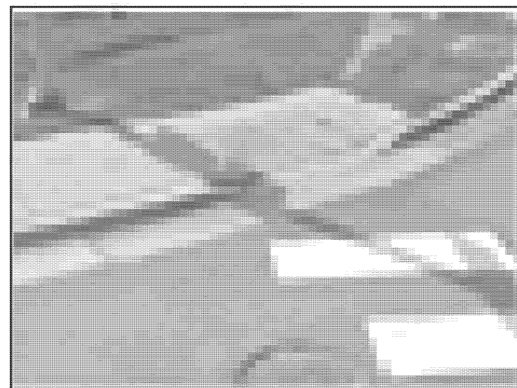
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PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

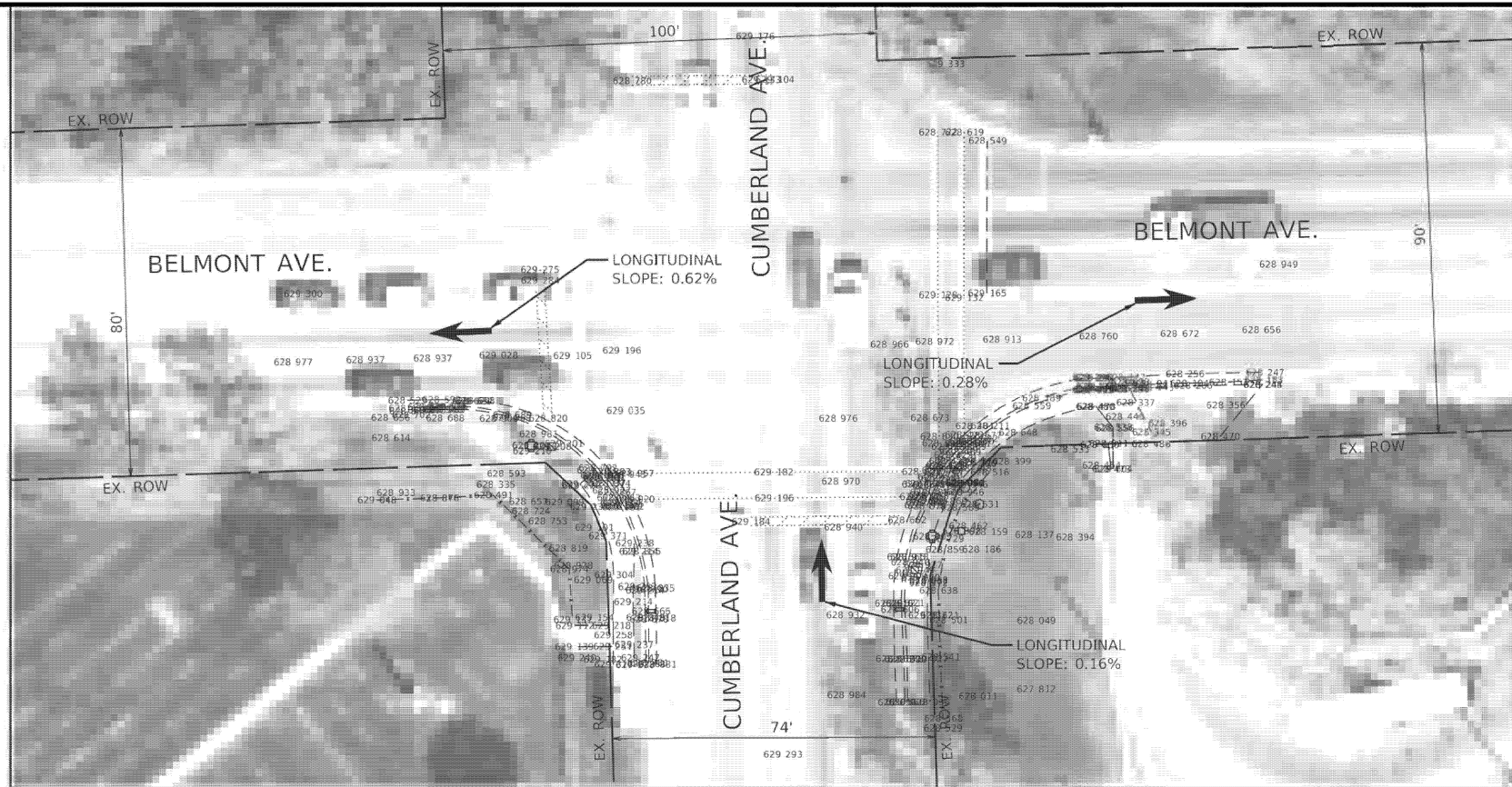
ADA RAMP IMPROVEMENTS  
IL 171 AT WRIGHTWOOD AVE

SCALE: SHEET 13 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 23
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



SOUTHWEST CORNER



EXISTING



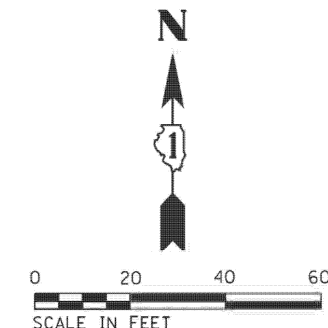
SOUTHEAST CORNER



PROPOSED

**LEGEND**

- DETECTABLE WARNING
- SIDEWALK REMOVAL
- NEW PCC SIDEWALK
- REMOVE AND REPLACE NEW PCC SIDEWALK
- COMBINATION CONCRETE CURB AND GUTTER
- EXISTING R.O.W. LINE
- SINGLE POST SIGN
- ABOVE GROUND SPLICE BOX
- CONTROLLER BOX
- FIRE HYDRANT
- GUY POLE
- HANDHOLE
- LIGHT STANDARD
- MANHOLE
- POWER LINE
- TELEPHONE
- TRAFFIC SIGNAL
- VEGETATION OUTLINE
- SINGLE TREE OR BUSH



**NOTE:**  
 PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

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PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP IMPROVEMENTS  
 IL 171 AT BELMONT AVE**

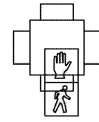
SCALE: SHEET 14 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 24
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

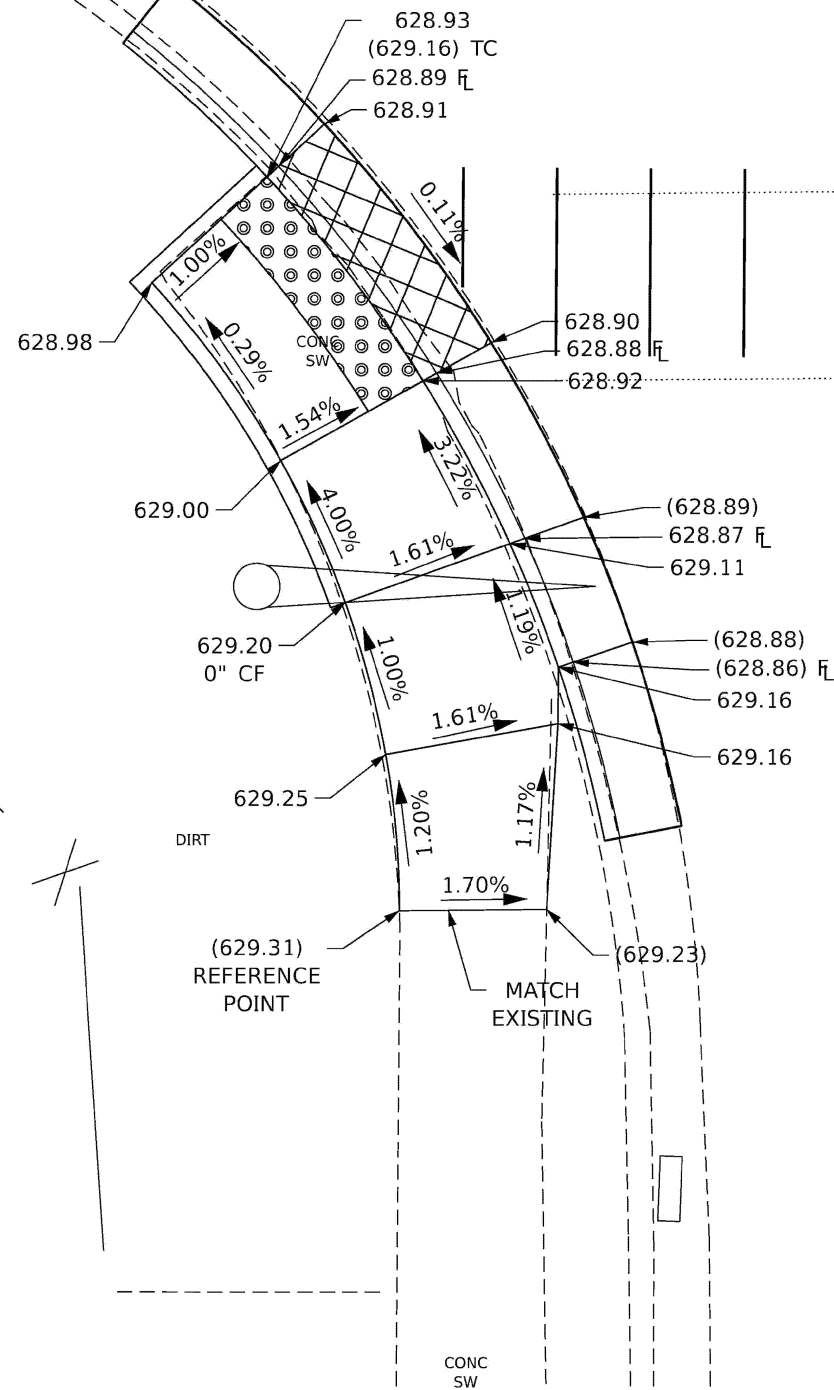
BELMONT AVE.



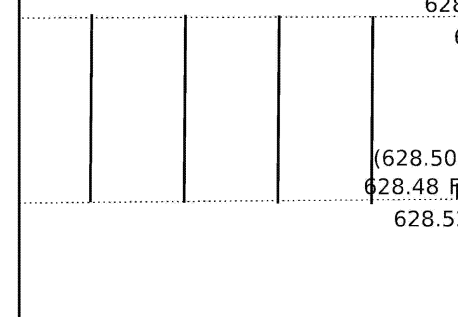
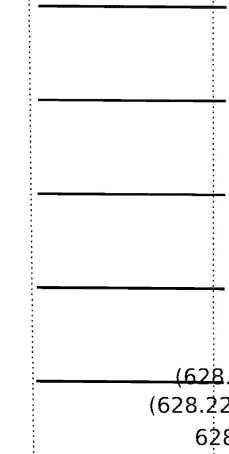
BELMONT AVE.



DIRT



CUMBERLAND AVE.



CUMBERLAND AVE.

**ADA RAMP IMPROVEMENTS**  
**IL 171 AT BELMONT AVE**

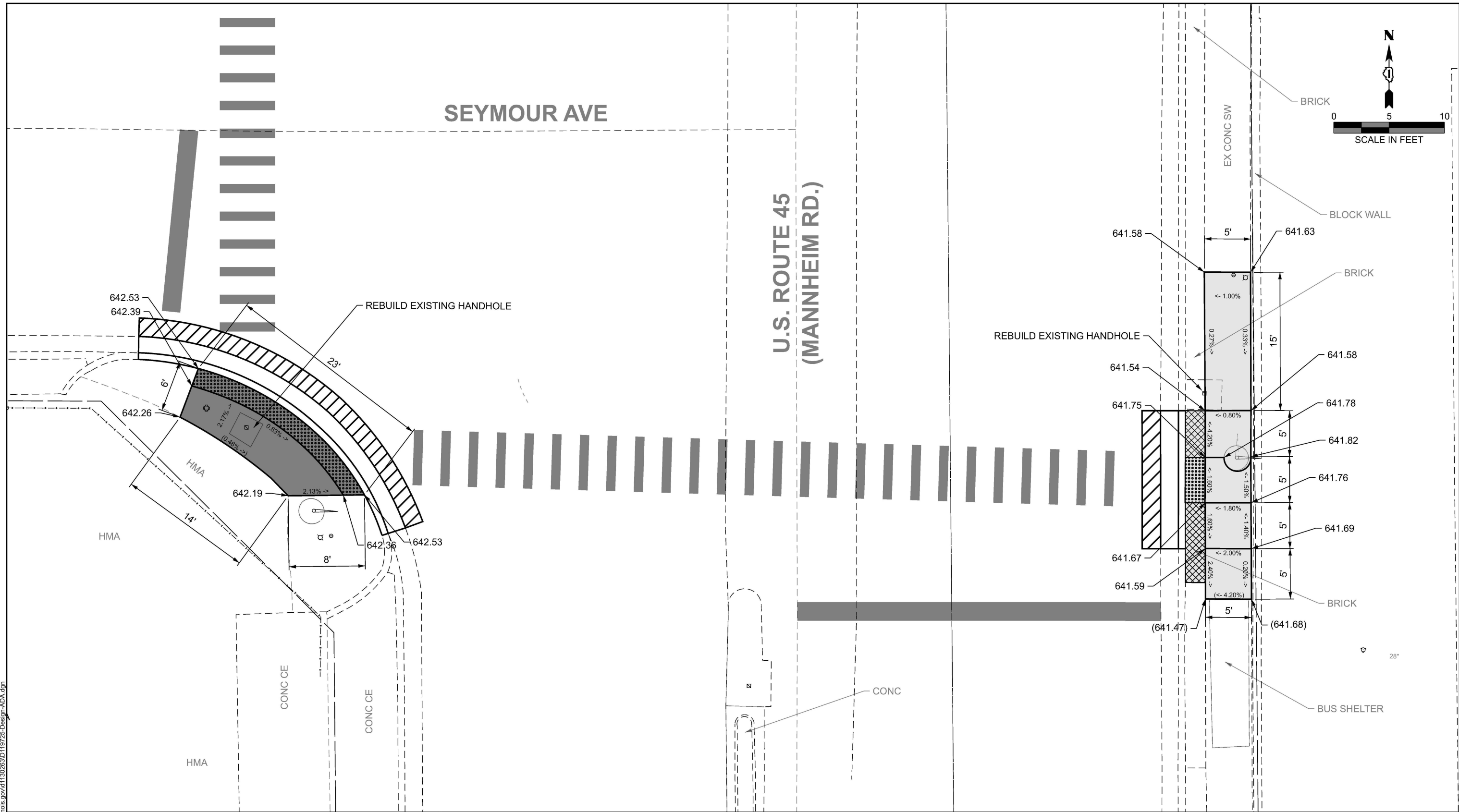
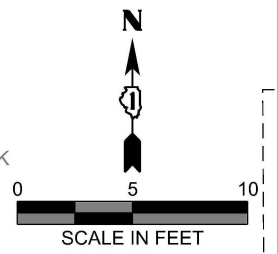
F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 25
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 15 OF 17 SHEETS STA. TO STA.

MODEL: ADA15  
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -



**LEGEND**

- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE

- PROPOSED SIDEWALK, 8" AGGREGATE BASE COURSE, TYPE B 6"
- CAST IRON DETECTABLE WARNING
- CLASS D PATCH

- PROPOSED SIDEWALK, 5"
- DETECTABLE WARNING
- REMOVE BRICK PAVERS

MODEL: US 45 and Seymour Ave South (Sheet)  
 FILE NAME: c:\pwworking\jammal.aramahi@illinois.gov\1130263D\119725-Design-ADA.dgn

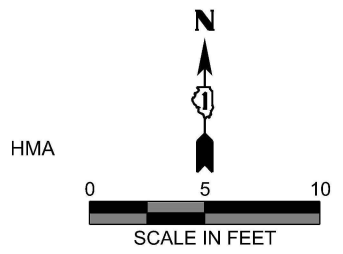
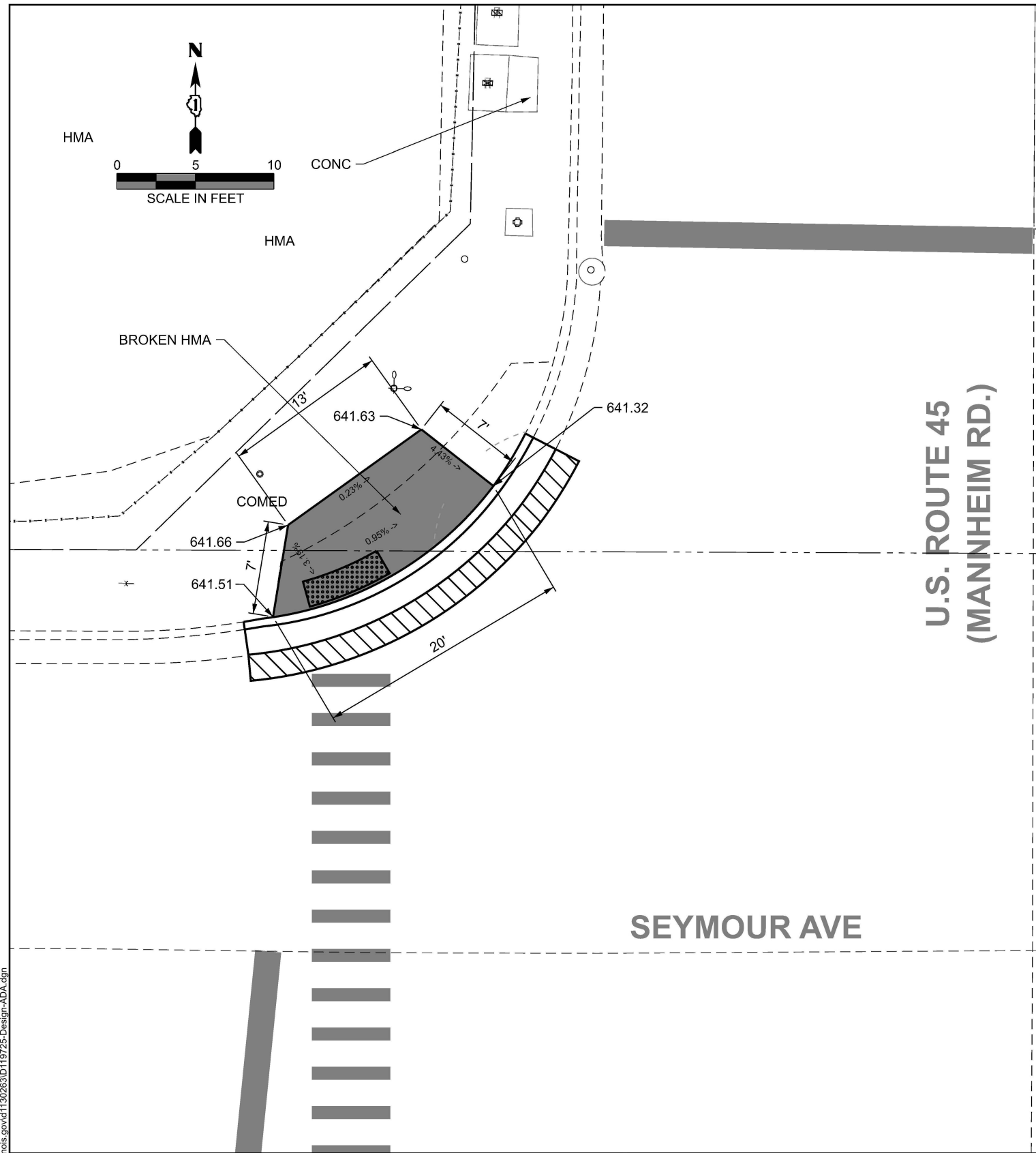
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PLOT DATE = 4/21/2026	DATE -	REVISED -

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

**PROPOSED ADA RAMP DESIGN PLANS**  
**US 45 AND SEYMOUR AVE**

SCALE: SHEET 16 OF 21 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	26
CONTRACT NO. 80B35				
ILLINOIS   FED. AID PROJECT				



**LEGEND**

===== PROPOSED SIDE CURB  
( ) EXISTING ELEVATION/SLOPE

- PROPOSED SIDEWALK, 8" AGGREGATE BASE COURSE, TYPE B 6"
- PROPOSED SIDEWALK, 5"
- CAST IRON DETECTABLE WARNING
- DETECTABLE WARNING
- CLASS D PATCH
- REMOVE BRICK PAVERS

MODEL: J:\S\_45 and Seymour NW corner only (Sheet)  
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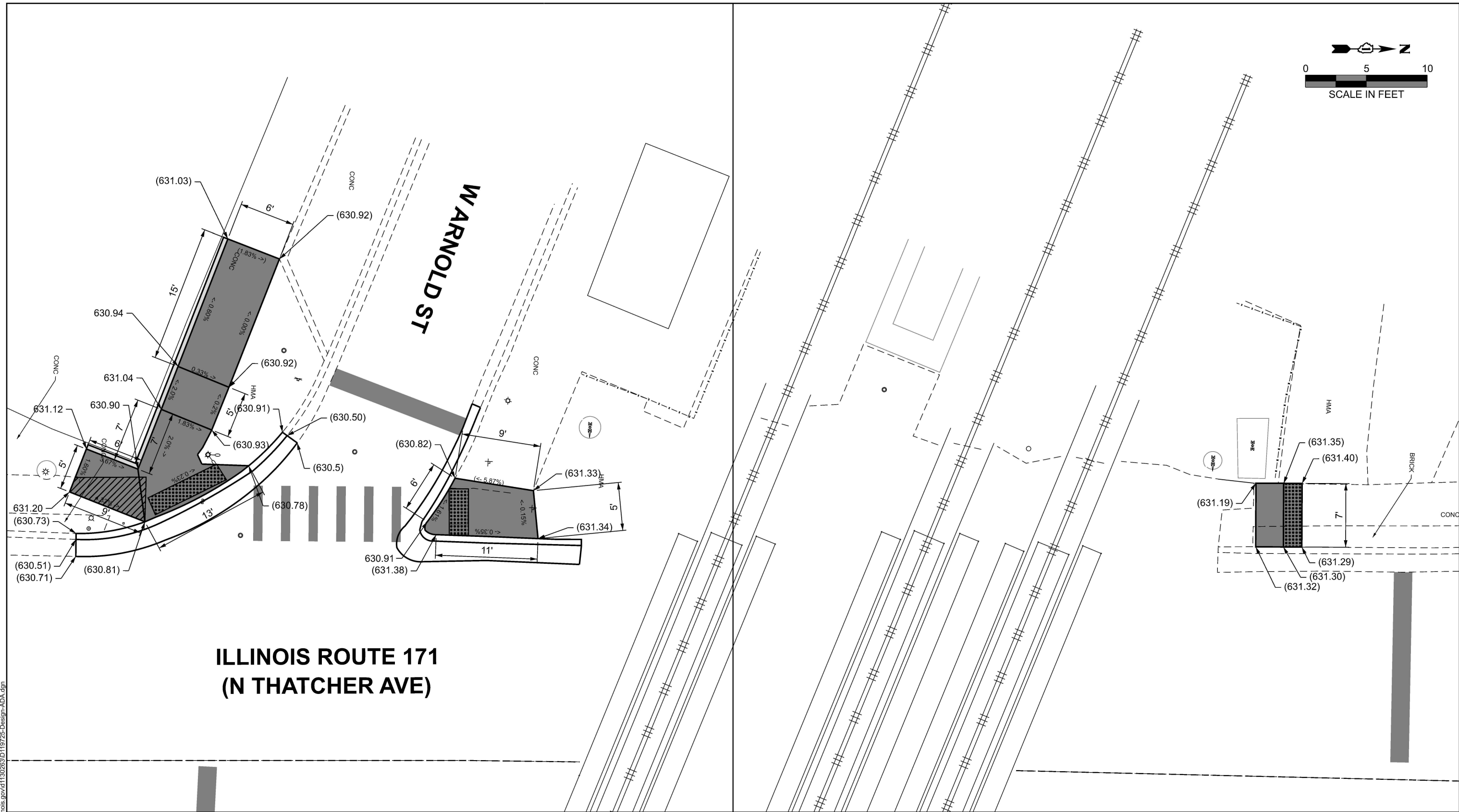
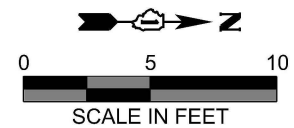
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/21/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ADA RAMP DESIGN PLANS  
US 45 AND SEYMOUR AVE**

SCALE: SHEET 17 OF 21 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	26A
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				






**ILLINOIS ROUTE 171  
(N THATCHER AVE)**

**W ARNOLD ST**

**LEGEND**

- ( ) EXISTING ELEVATION/SLOPE
- == PROPOSED SIDE CURB

-  PROPOSED SIDEWALK
-  DETECTABLE WARNINGS
-  REMOVE BRICK PAVERS

MODEL: IL 171 and Arnold St North View (Sheet)  
FILE NAME: c:\pwworking\jammal.aramahi\illinois.gov\1130263D\119725-Design-ADA.dgn

USER NAME = jammal.aramahi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/21/2026	DATE -	REVISED -

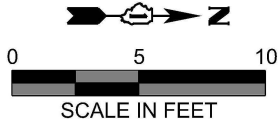
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ADA RAMP DESIGN PLANS  
IL 171 AND ARNOLD ST**

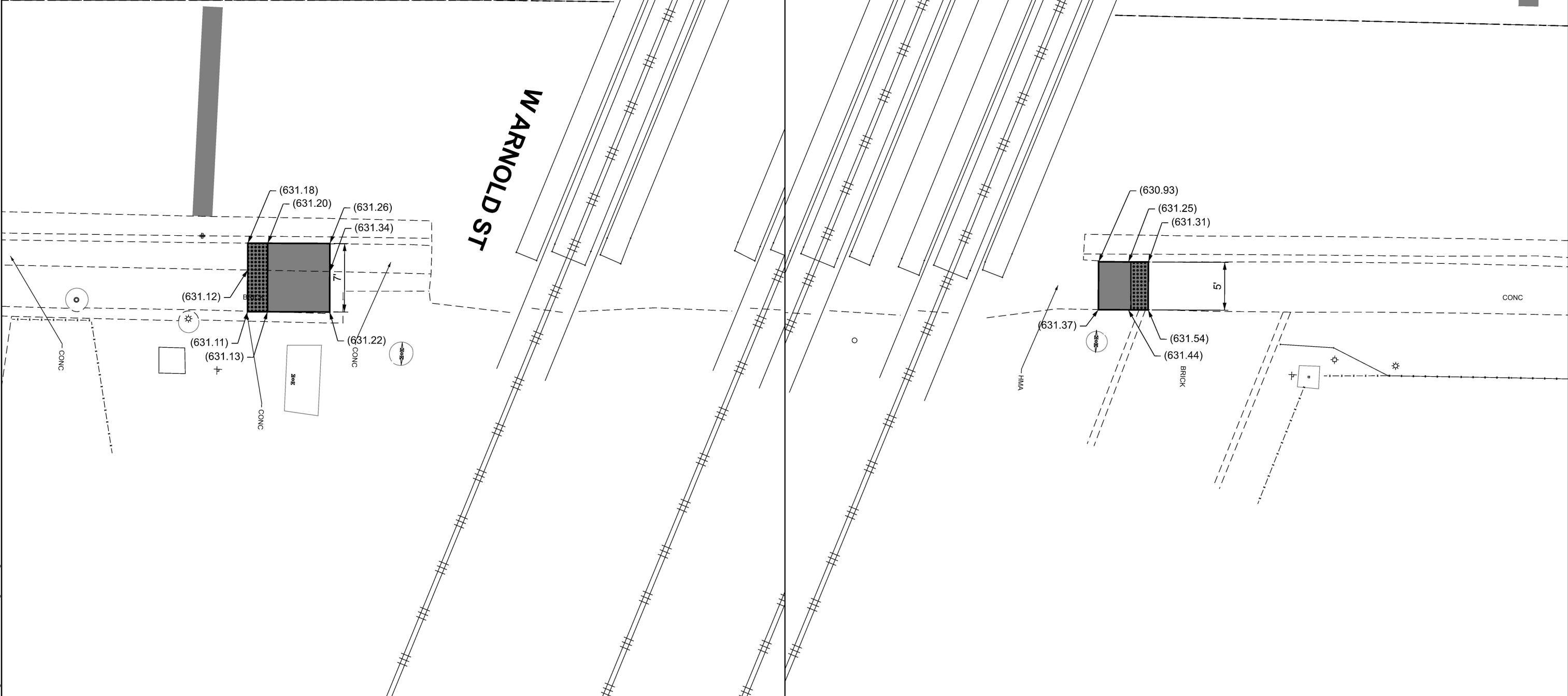
SCALE: SHEET 20 OF 21 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	27
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

# ILLINOIS ROUTE 171 (N THATCHER AVE)



**W ARNOLD ST**



**LEGEND**

- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDE CURB
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- REMOVE BRICK PAVERS

MODEL: IL\_171 and Arnold St South [Sheet]  
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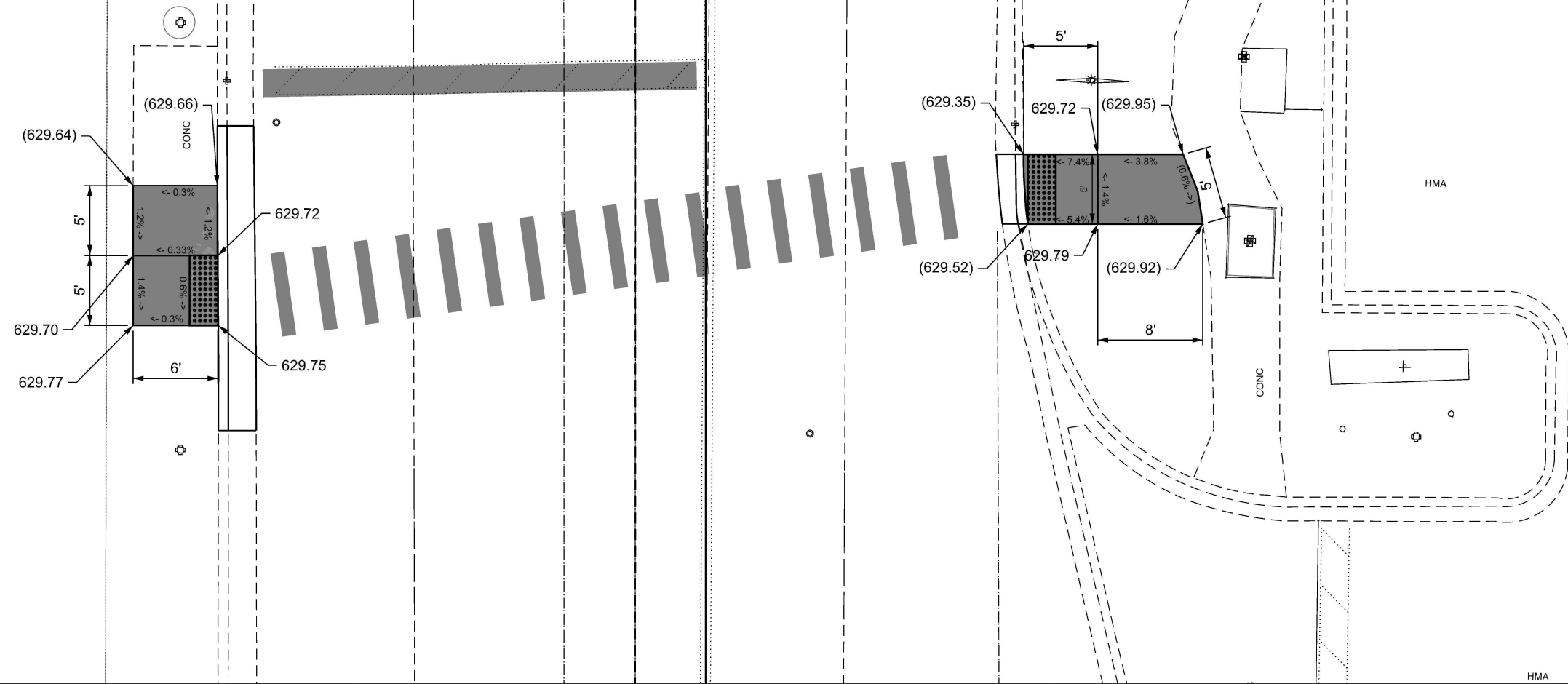
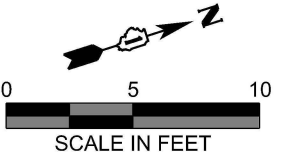
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/21/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ADA RAMP DESIGN PLANS  
IL 171 AND ARNOLD ST**

SCALE: SHEET 21 OF 21 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	27A
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- ( ) EXISTING ELEVATION/SLOPE
- ===== PROPOSED SIDE CURB
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS

MODEL: IL\_171 and Mail Plaza (Sheet)  
 FILE NAME: c:\pwwork\jammal.aramahi\130263D119725-Design-ADA.dgn

USER NAME = jammal.aramahi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/17/2026	DATE -	REVISED -

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

**PROPOSED ADA RAMP DESIGNS PLANS**  
**IL 171 AND THATCHER WOODS SHOPPING CENTER**

SCALE: SHEET 16 OF 17 SHEETS STA. 0+00.00 TO STA. 0+00.00

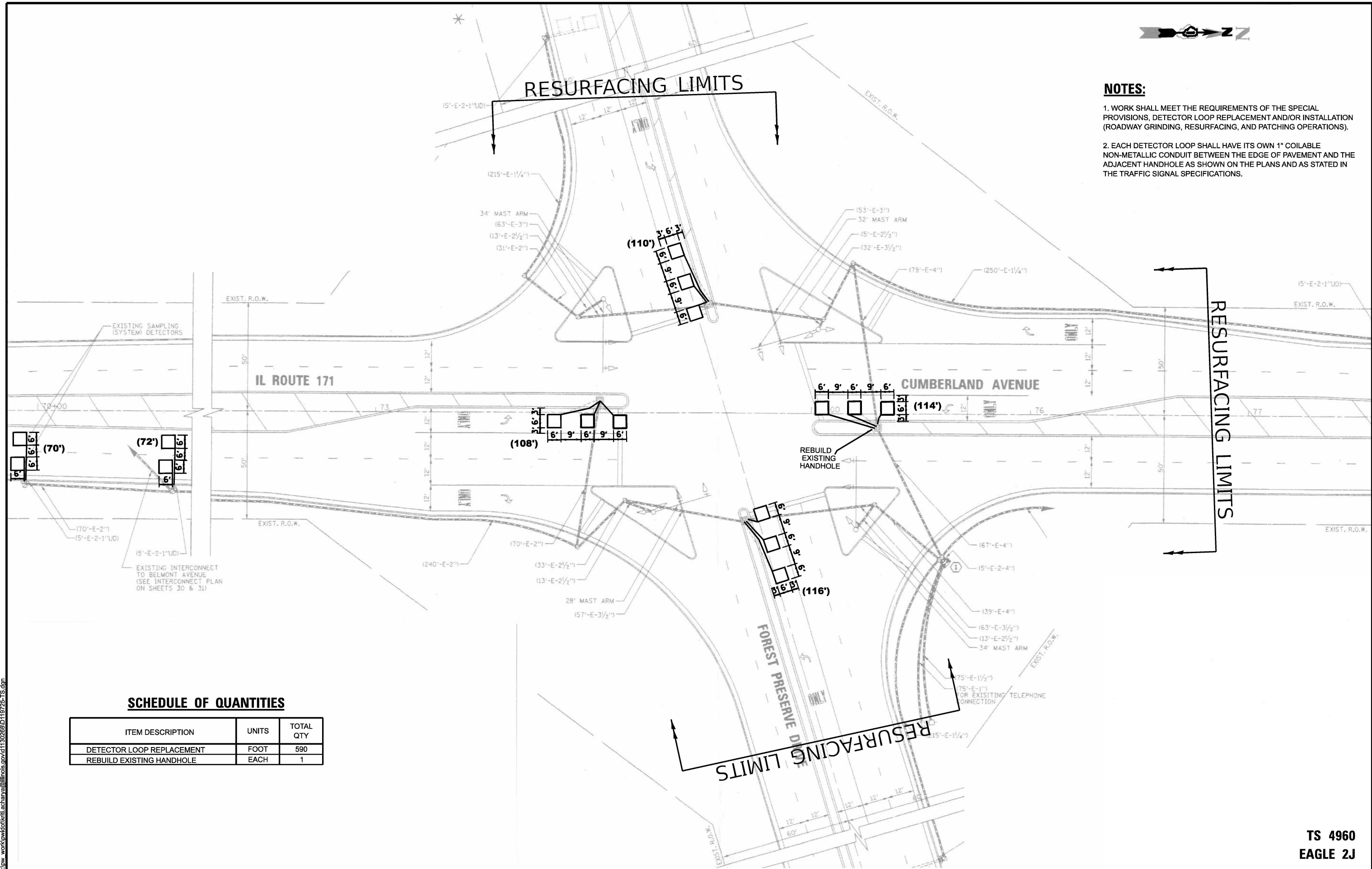
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	60	30
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				



### RESURFACING LIMITS

### NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
2. 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.



### SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
DETECTOR LOOP REPLACEMENT	FOOT	590
REBUILD EXISTING HANDHOLE	EACH	1

MODEL: Default  
 FILE NAME: c:\pwworking\kriti.sacharya@illinois.gov\130268\130268D119725-TS.dgn

**TS 4960**  
**EAGLE 2J**

USER NAME = kriti.lacharya	DESIGNED - KA	REVISED -
	DRAWN - KA	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/24/2026	DATE -	REVISED -

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

### DETECTOR LOOP REPLACEMENT PLAN IL 171 AT FOREST PRESERVE DR

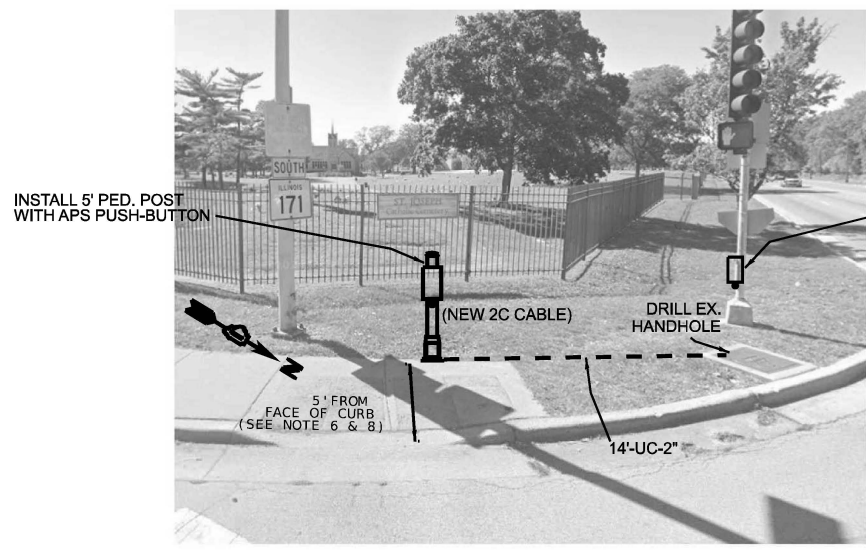
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	28
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

**NOTES:**

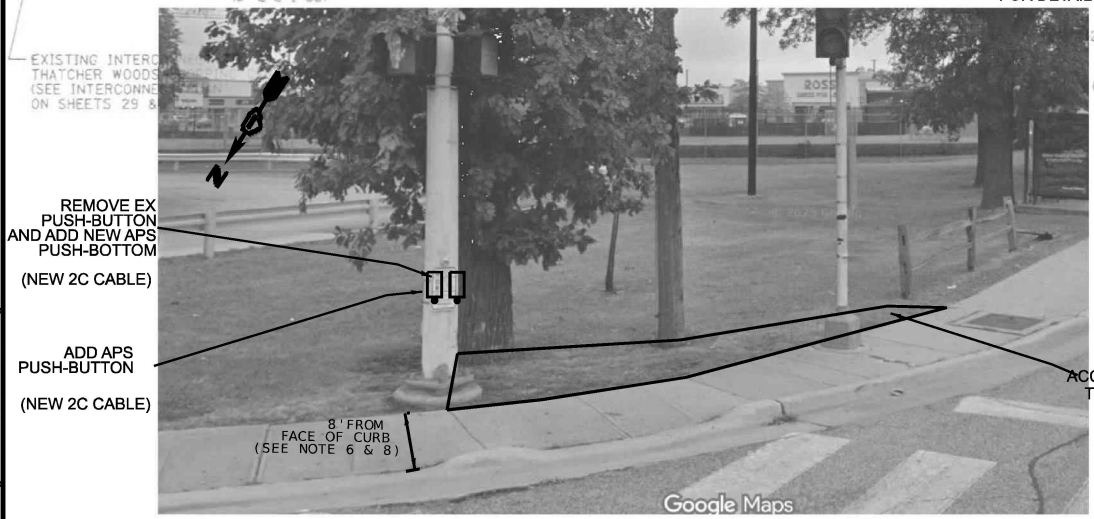
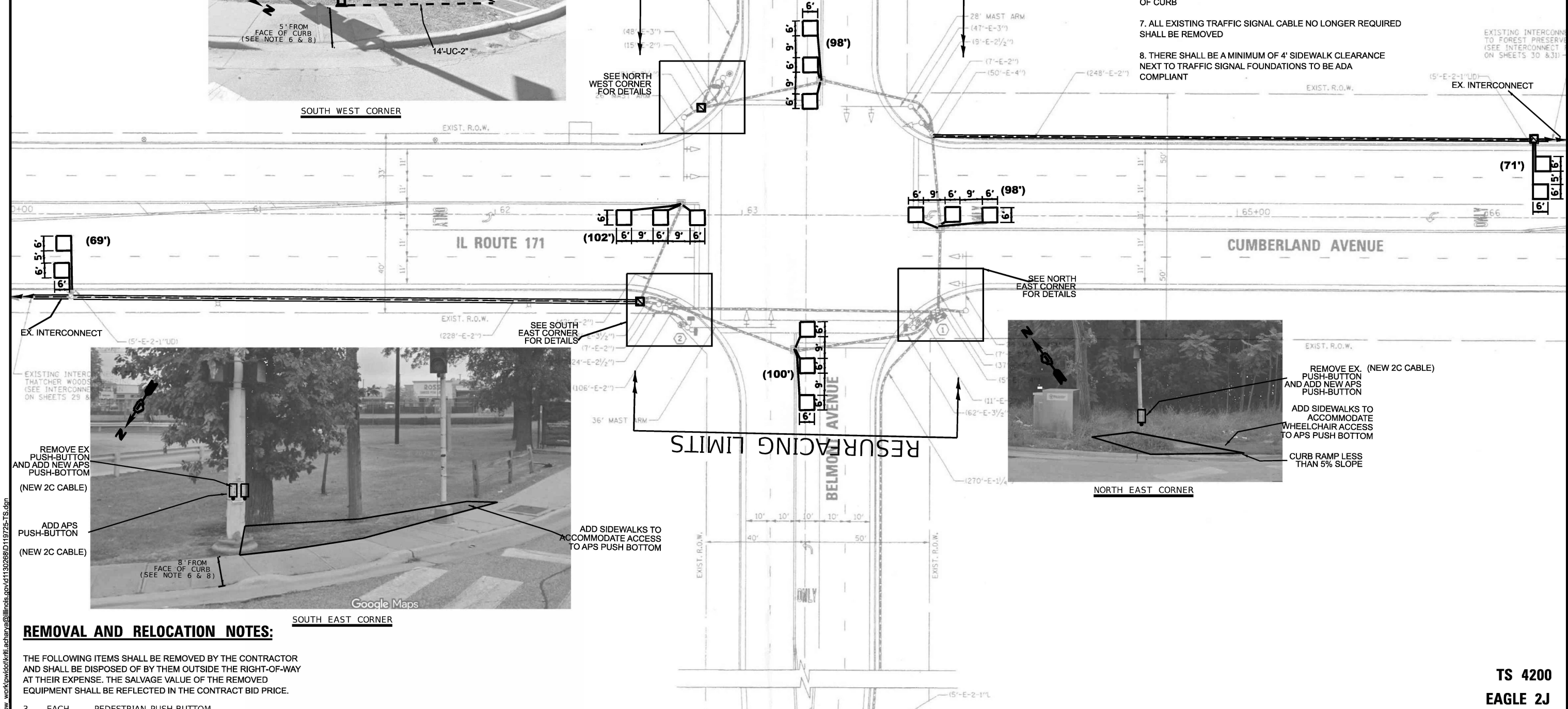


1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
5. ALL PUSH BUTTONS SHALL BE APS
6. NO PROPOSED PEDESTRIAN POST SHALL EXCEED 10 FT FROM BACK OF CURB
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED
8. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT

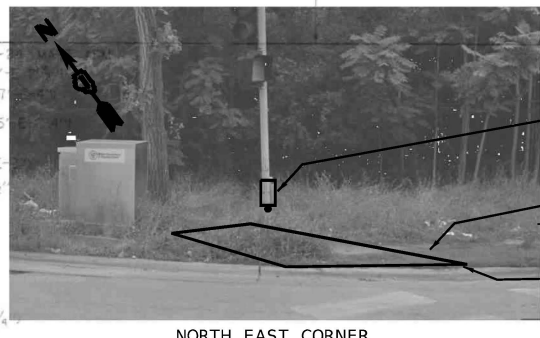


**SOUTH WEST CORNER**

**RESURFACING LIMITS**



**SOUTH EAST CORNER**



**NORTH EAST CORNER**

**REMOVAL AND RELOCATION 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.

3	EACH	PEDESTRIAN PUSH-BOTTOM
---	------	------------------------

USER NAME =	kriti.acharya	DESIGNED -	KA	REVISED -	
DRAWN -	KA	REVISED -			
CHECKED -		REVISED -			
PLOT DATE =	4/24/2026	DATE -		REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
IL 171 AT WEST BELMONT AVE**

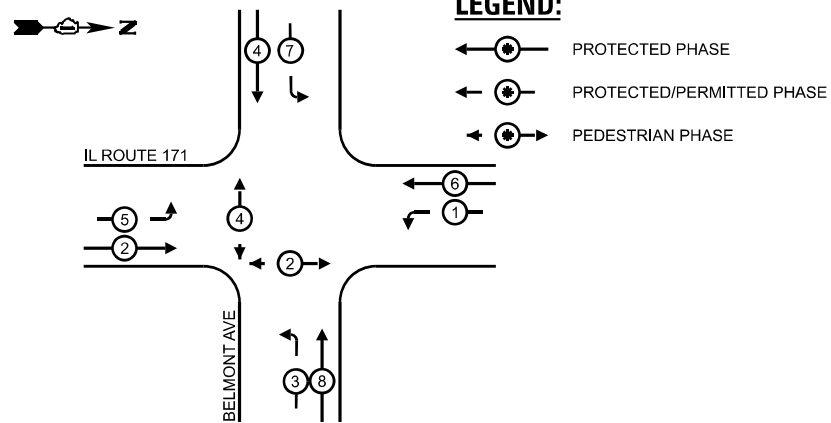
SCALE: SHEET OF SHEETS STA. TO STA.

**TS 4200  
EAGLE 2J**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	29
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	

MODEL: Default FILE NAME: c:\pwworking\kriti.acharya@illinois.gov\11302681D119726-TS.dgn

**EXISTING AND PROPOSED  
CONTROLLER SEQUENCE**



**SCHEDULE OF QUANTITIES**

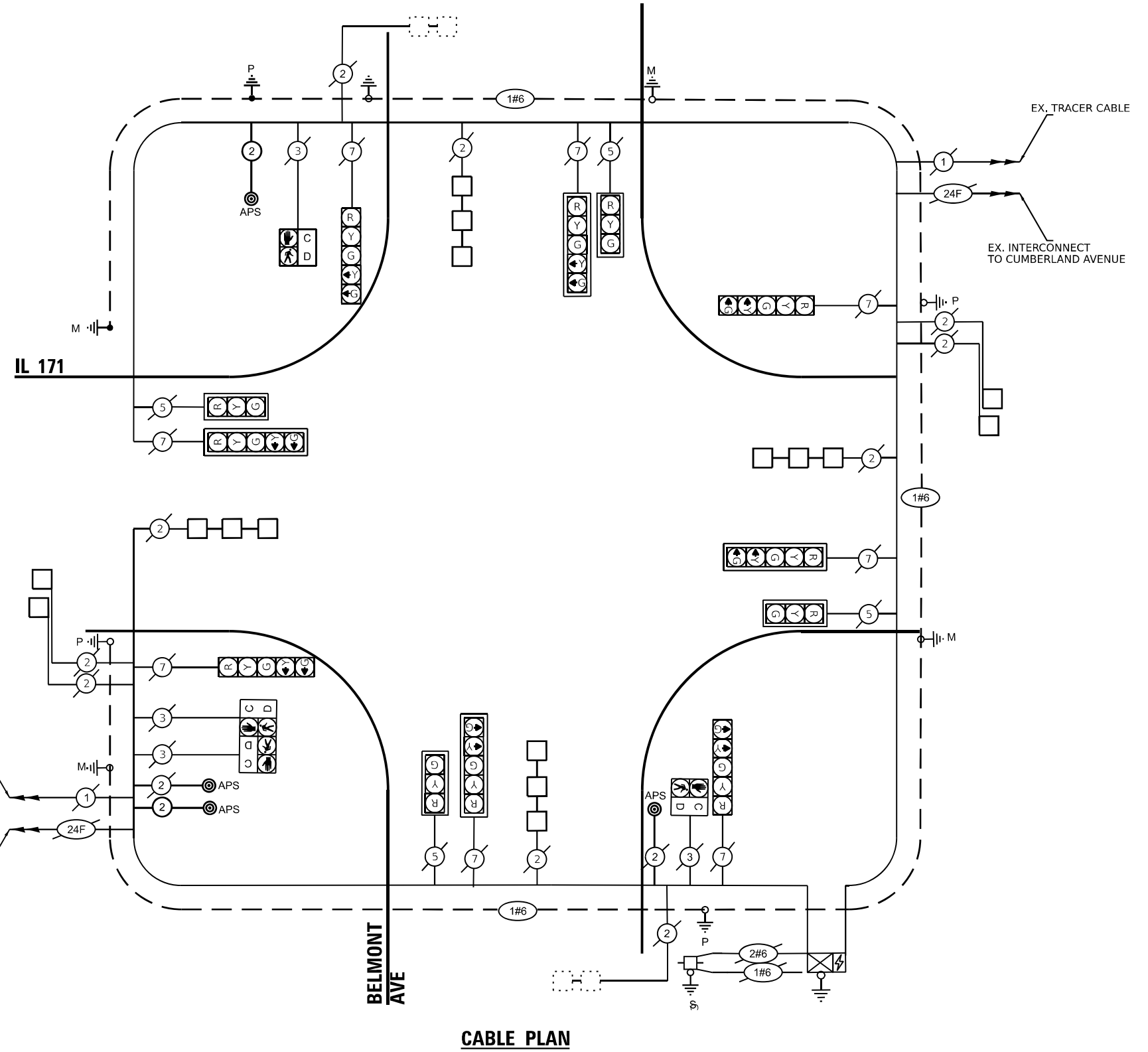
ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	14
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,001
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	25
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP REPLACEMENT	FOOT	538
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	901
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	4	11	44
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	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING</b>		<b>323</b>	
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	-
<b>TOTAL SERVICE WIRE SIZING</b>		<b>928</b>	

ENERGY COSTS TO:  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 W CENTER CT  
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.  
PHONE: 866-639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 28972-69000  
METER NUMBER: ---



**CABLE PLAN**

MODEL: Default; FILE NAME: c:\pwworking\krti.acharya@illinois.gov\d1130268\019725-TS.dgn

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	DRAWN - KA	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/24/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, CONTROLLER PHASE DIAGRAM, AND  
EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM  
IL 171 AT W BELMONT AVE**

F.A. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80B35	

**TS 4200  
EAGLE 2J**

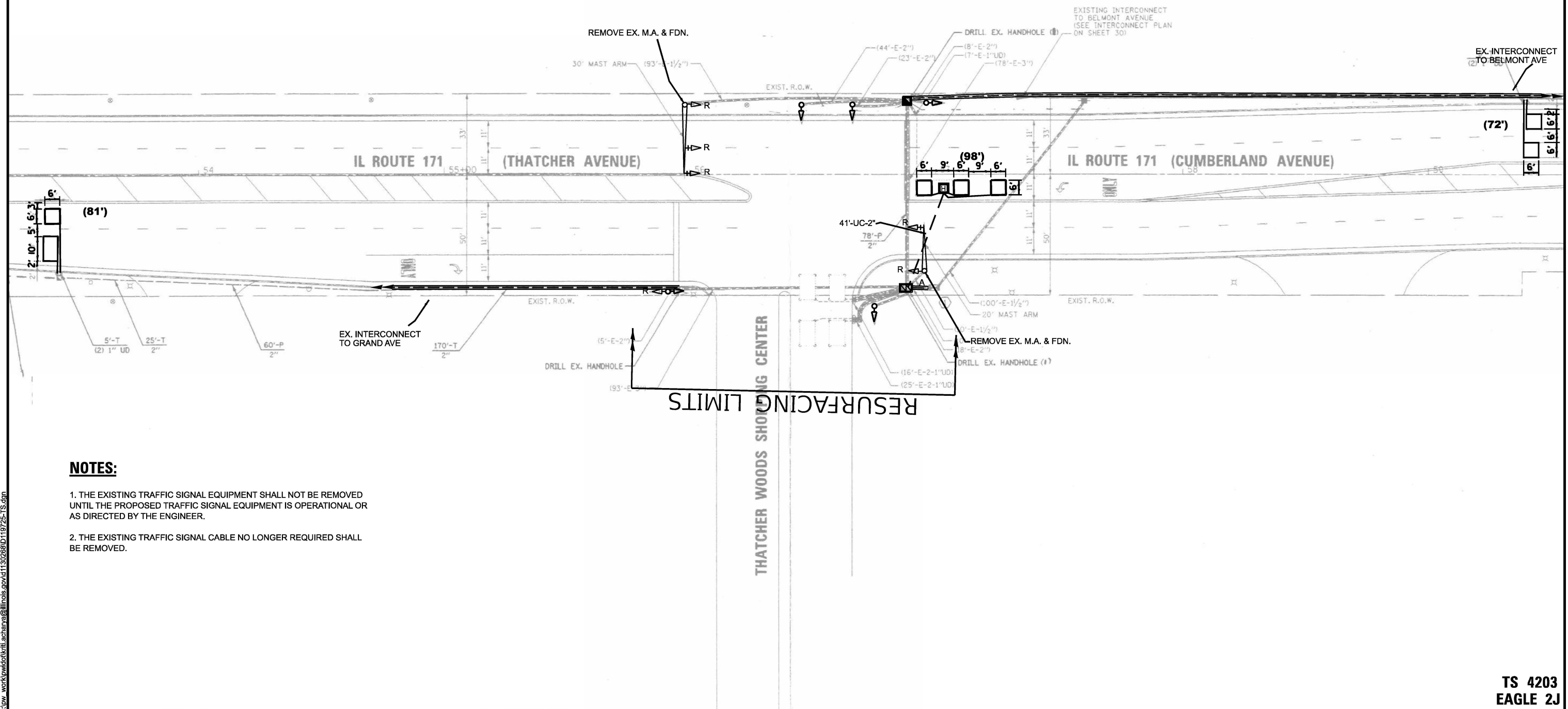
SCALE: SHEET OF SHEETS STA. TO STA.



**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND 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. THIS WORK SHALL BE PAID UNDER THE PAY ITEM REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 2 EACH MAST ARM ASSEMBLY AND POLE
- 5 EACH 3-SECTION SIGNAL HEAD
- 1 EACH 5-SECTION SIGNAL HEAD



**NOTES:**

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. THE EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

MODEL: Default  
FILE NAME: c:\pwworking\kritt.acharya@illinois.gov\d113026801\19725-TS.dgn

**TS 4203  
EAGLE 2J**

USER NAME = kritt.acharya	DESIGNED - KA	REVISED -
	DRAWN - KA	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/24/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

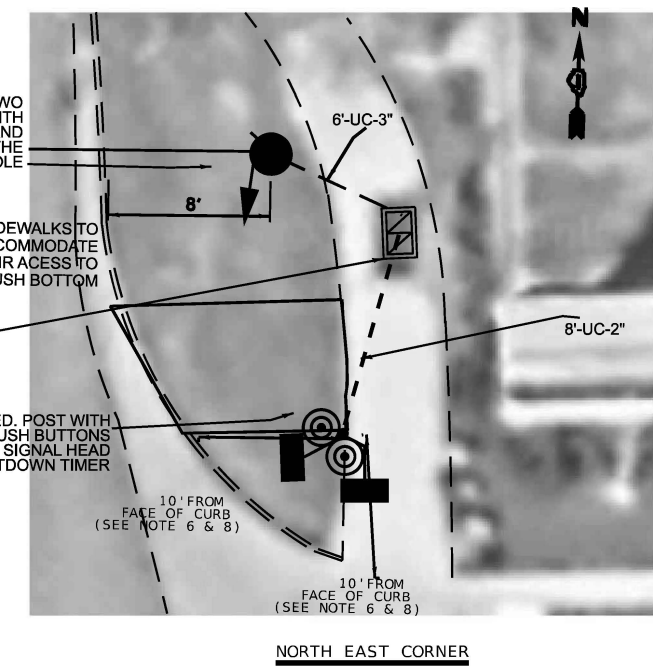
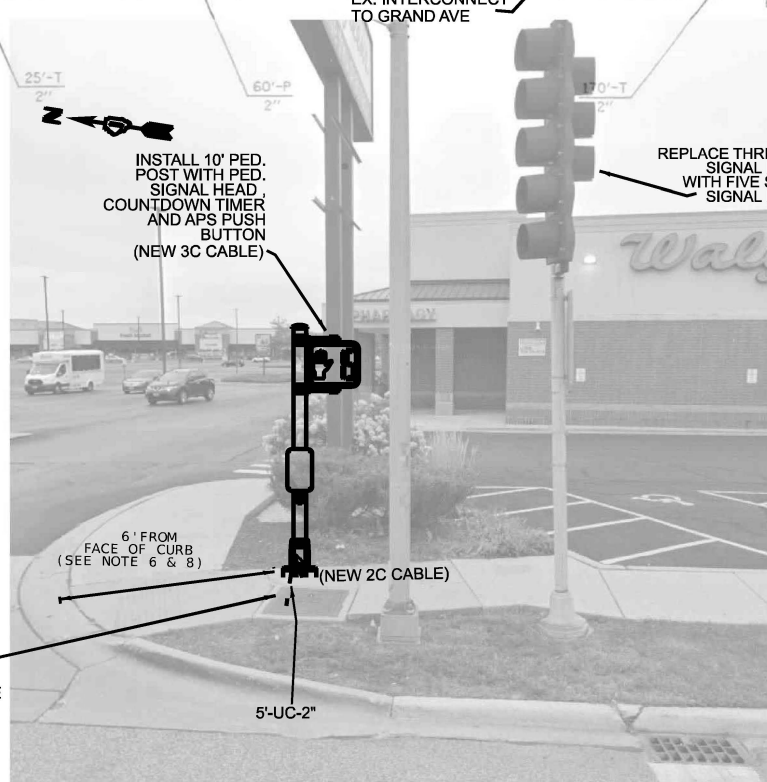
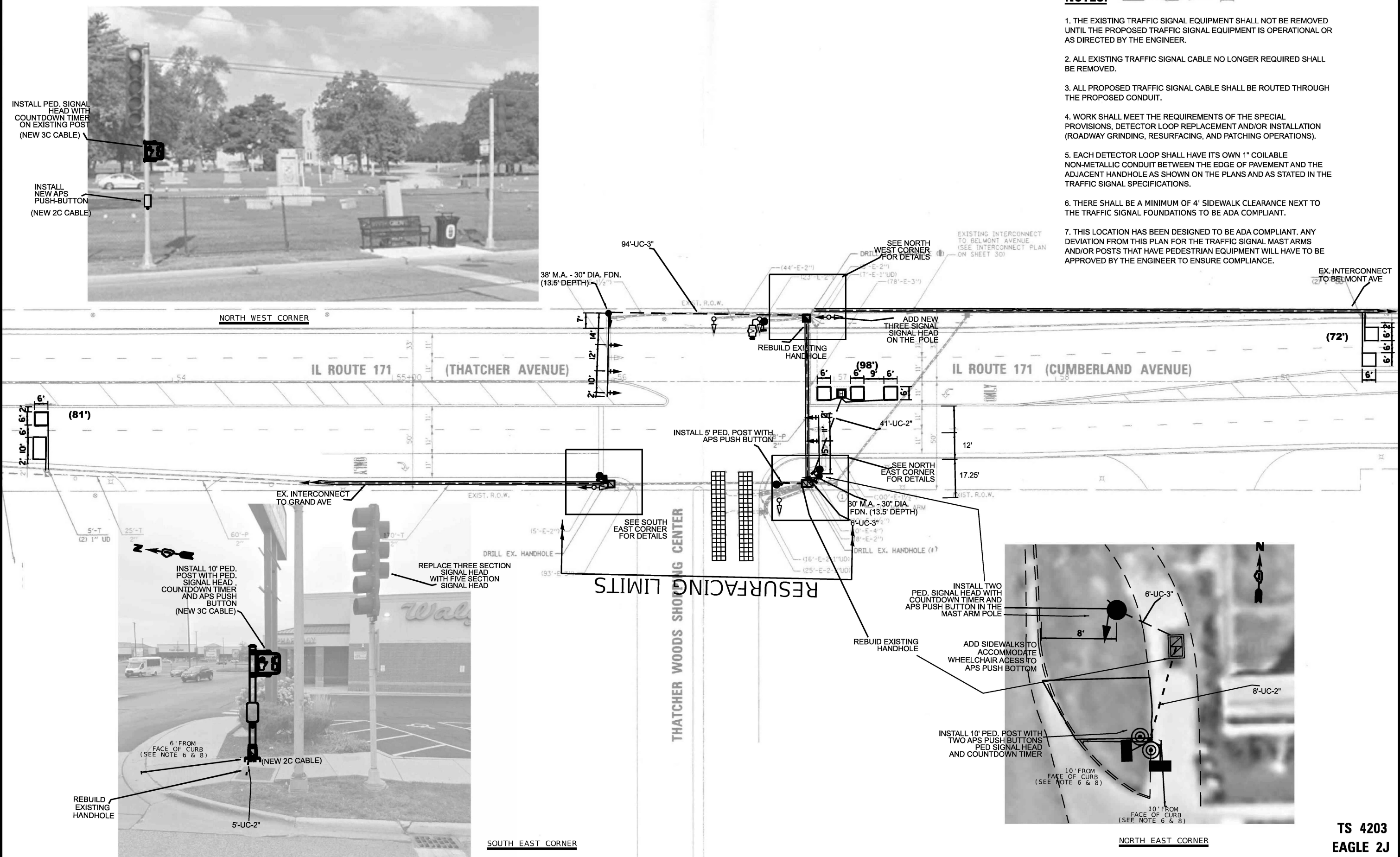
**REMOVAL PLAN  
IL 171 AT THATCHER WOODS SHOPPING CENTER**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	31
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

**NOTES:** 

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
5. 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.
6. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
7. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE TRAFFIC SIGNAL MAST ARMS AND/OR POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE COMPLIANCE.



MODEL: Default  
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**TS 4203  
EAGLE 2J**

USER NAME = krti.acharya	DESIGNED - KA	REVISED -
DRAWN - KA	REVISED -	
CHECKED -	REVISED -	
DATE -	REVISED -	
PLOT DATE = 4/24/2026		

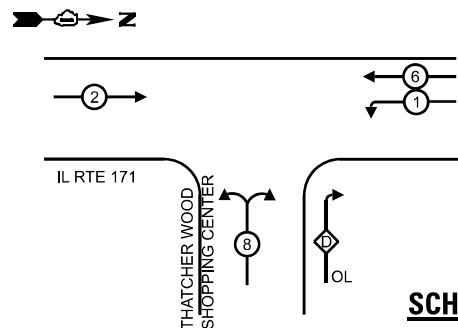
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
IL 171 AT THATCHER WOODS SHOPPING CENTER**

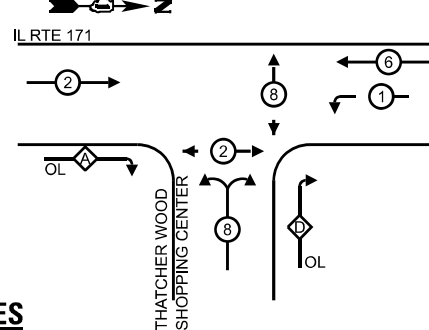
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 32
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	

**EXISTING CONTROLLER SEQUENCE**



**PROPOSED CONTROLLER SEQUENCE**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	54
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	100
REBUILD EXISTING HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	382
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	398
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,022
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	469
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	75
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	185
STEEL MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 38 FT	EACH	1
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, PLASTIC	EACH	5
LED SIGNAL FACE, LENS COVER	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
DETECTOR LOOP, TYPE I	FOOT	251
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	143
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**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	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	4	15	30
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	1	20	20
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
<b>TOTAL UPS SIZING</b>			<b>391</b>
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	-
<b>TOTAL SERVICE WIRE SIZING</b>			<b>996</b>

**ENERGY COSTS TO:**

VILLAGE OF RIVER GROVE  
2621 NORTH THATCHER AVE  
RIVER GROVE, IL 60171

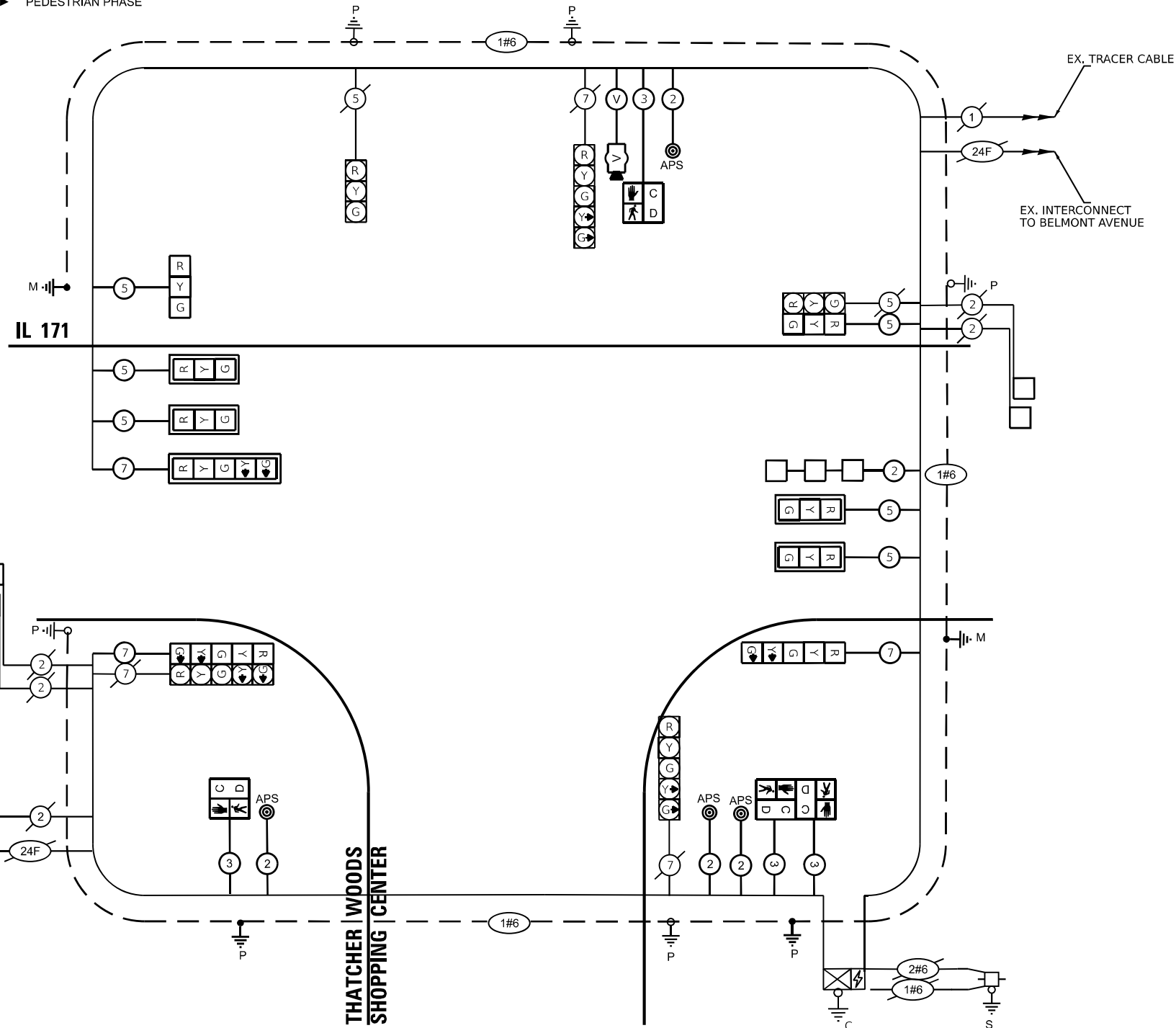
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.  
PHONE: 866-639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 79893-58000  
METER NUMBER: --

**LEGEND:**

- ⊙ PROTECTED PHASE
- ⊙ PROTECTED/PERMITTED PHASE
- ⊙ PEDESTRIAN PHASE

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8
D	= 8	+ 1



**CABLE PLAN**

MODEL: Default  
FILE NAME: c:\pwworkspace\dwg\ts\ts4203\ts4203.dwg  
DATE: 4/24/2026 11:02:28 AM  
USER: krill.acharya

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, CONTROLLER PHASE DIAGRAM, AND  
EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM  
IL 171 AT THATCHER WOODS SHOPPING CENTER**

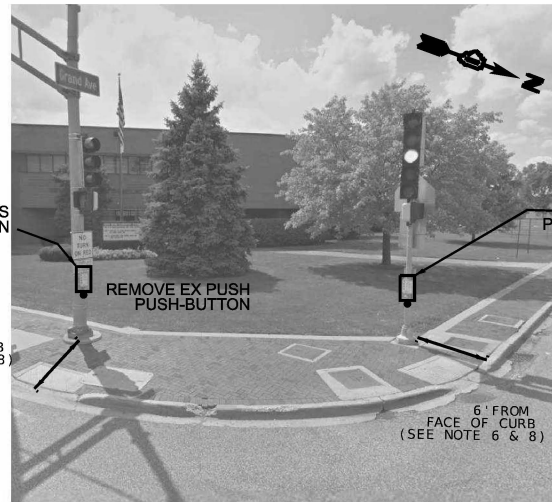
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	33
				CONTRACT NO. 80B35
ILLINOIS FED. AID PROJECT				

**TS 4203  
EAGLE 2J**



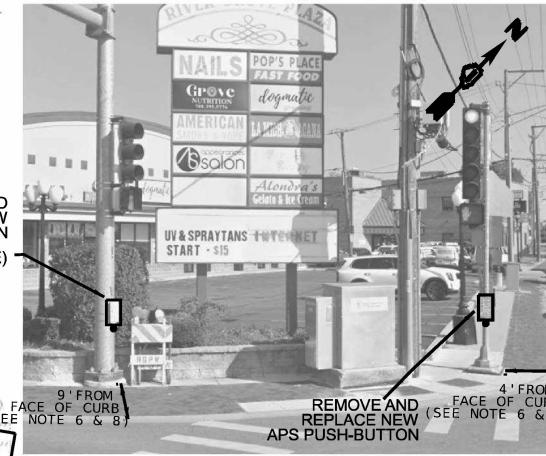
**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
5. ALL PUSH BUTTONS SHALL BE APS
6. NO PROPOSED PEDESTRIAN POST SHALL EXCEED 10 FT FROM BACK OF CURB
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED
8. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT



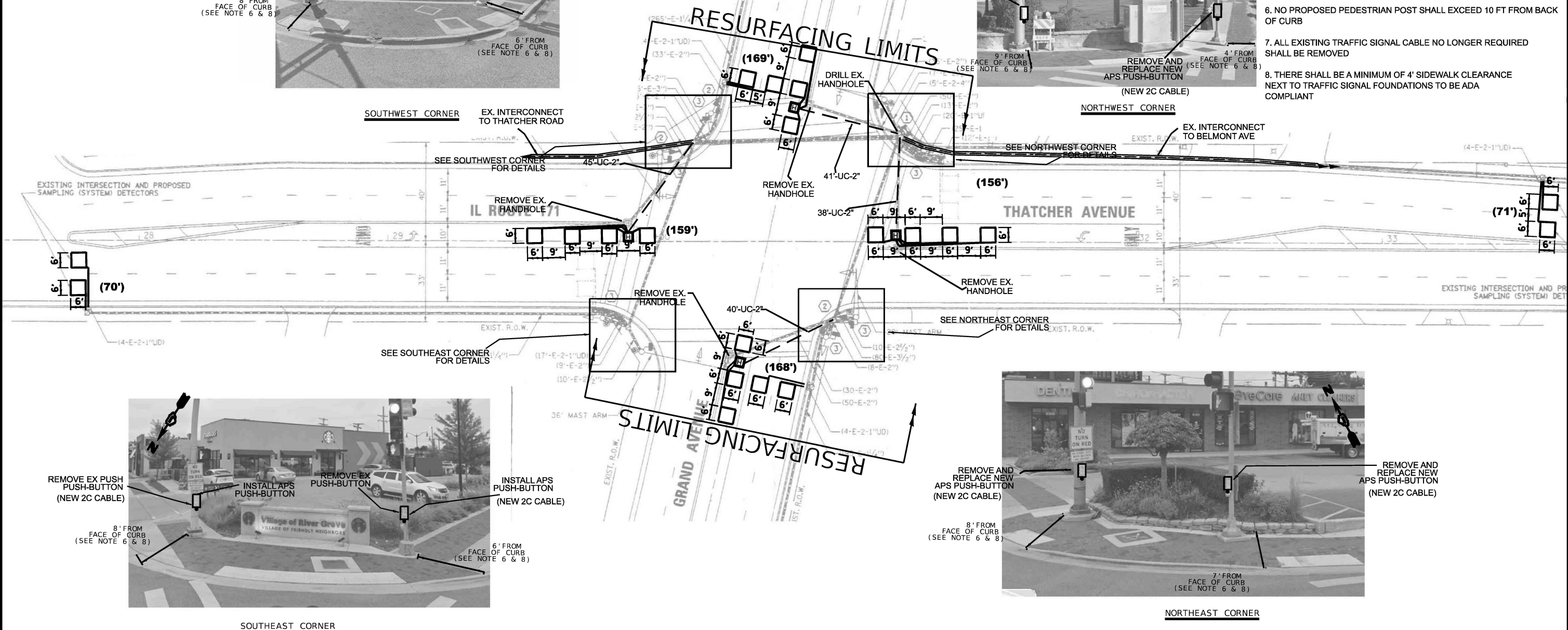
INSTALL APS PUSH-BUTTON (NEW 2C CABLE)  
8' FROM FACE OF CURB (SEE NOTE 6 & 8)

INSTALL APS (NEW 2C CABLE) PUSH-BUTTON AND REMOVE EX PUSH PUSH-BUTTON



REMOVE AND REPLACE NEW APS PUSH-BUTTON (NEW 2C CABLE)

REMOVE AND REPLACE NEW APS PUSH-BUTTON (NEW 2C CABLE)  
4' FROM FACE OF CURB (SEE NOTE 6 & 8)



REMOVE EX PUSH-BUTTON (NEW 2C CABLE)  
8' FROM FACE OF CURB (SEE NOTE 6 & 8)

INSTALL APS PUSH-BUTTON

REMOVE EX PUSH-BUTTON

INSTALL APS PUSH-BUTTON (NEW 2C CABLE)  
6' FROM FACE OF CURB (SEE NOTE 6 & 8)



REMOVE AND REPLACE NEW APS PUSH-BUTTON (NEW 2C CABLE)  
8' FROM FACE OF CURB (SEE NOTE 6 & 8)

REMOVE AND REPLACE NEW APS PUSH-BUTTON (NEW 2C CABLE)

7' FROM FACE OF CURB (SEE NOTE 6 & 8)

**REMOVAL AND RELOCATION 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.

- 8 EACH PEDESTRIAN PUSH-BUTTON

MODEL: Default  
FILE NAME: c:\pwworking\krtill\acharya\illinois\pww\1130288\119725-TS.dgn

**TS 5215  
EAGLE 2J**

USER NAME = krtill.acharya	DESIGNED - KA	REVISED -
	DRAWN - KA	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/24/2026	DATE -	REVISED -

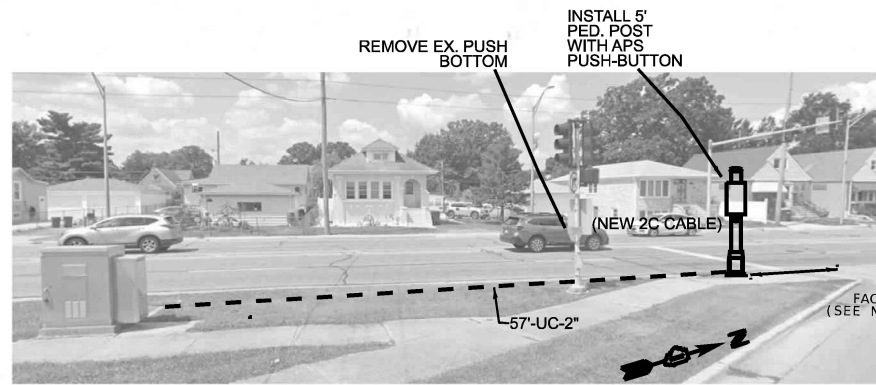
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
IL 171 1ST AV-THATCHER AT GRAND**

SCALE: SHEET OF SHEETS STA. TO STA.

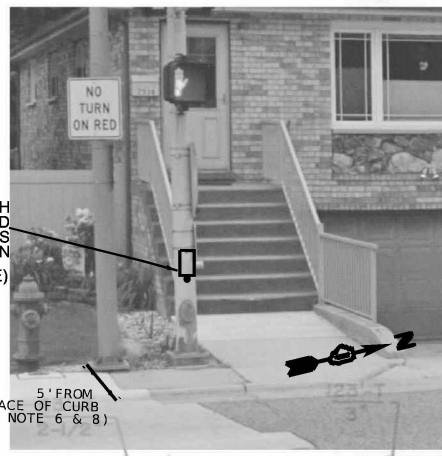
F.A. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 34
CONTRACT NO. 80B35			ILLINOIS FED. AID PROJECT	





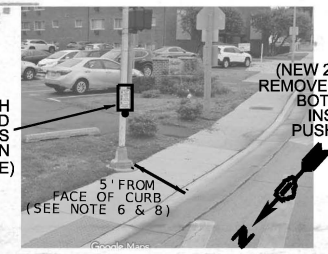
REMOVE EX. PUSH BOTTOM  
INSTALL 5' PED. POST WITH APS PUSH-BUTTON  
(NEW 2C CABLE)

SOUTH WEST CORNER

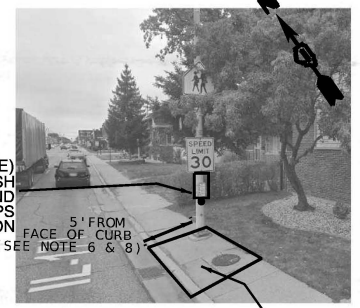


REMOVE EX. PUSH BOTTOM AND INSTALL APS PUSH-BUTTON  
(NEW 2C CABLE)

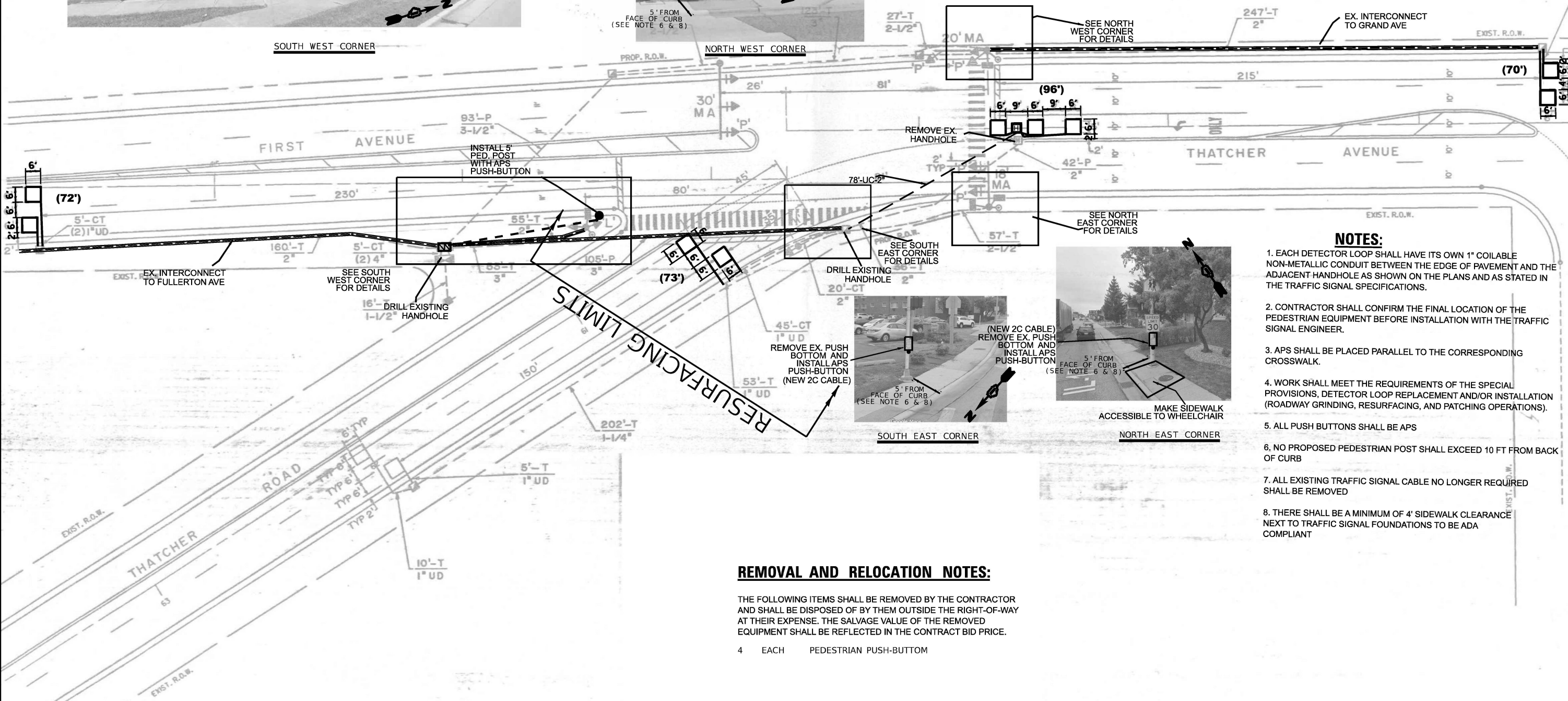
NORTH WEST CORNER



SOUTH EAST CORNER



NORTH EAST CORNER



**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
5. ALL PUSH BUTTONS SHALL BE APS
6. NO PROPOSED PEDESTRIAN POST SHALL EXCEED 10 FT FROM BACK OF CURB
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED
8. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT

**REMOVAL AND RELOCATION 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.

4 EACH PEDESTRIAN PUSH-BUTTON

MODEL - Default  
FILE NAME - g:\pwworking\krti.acharya@illinois.gov\11302680D119725-TS.dgn

USER NAME = krti.acharya	DESIGNED - KA	REVISED -
DRAWN - KA	REVISED -	
CHECKED -	REVISED -	
DATE -	REVISED -	
PLOT DATE = 4/24/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

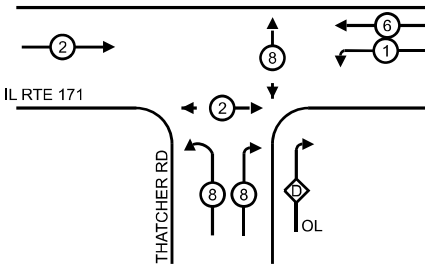
**TRAFFIC SIGNAL MODERNIZATION PLAN  
IL 171 AT NORTH THATCHER AVE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	36
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

**TS 3660  
EAGLE 2J**

**EXISTING AND PROPOSED  
CONTROLLER SEQUENCE**



**LEGEND:**

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

**SCHEDULE OF QUANTITIES**

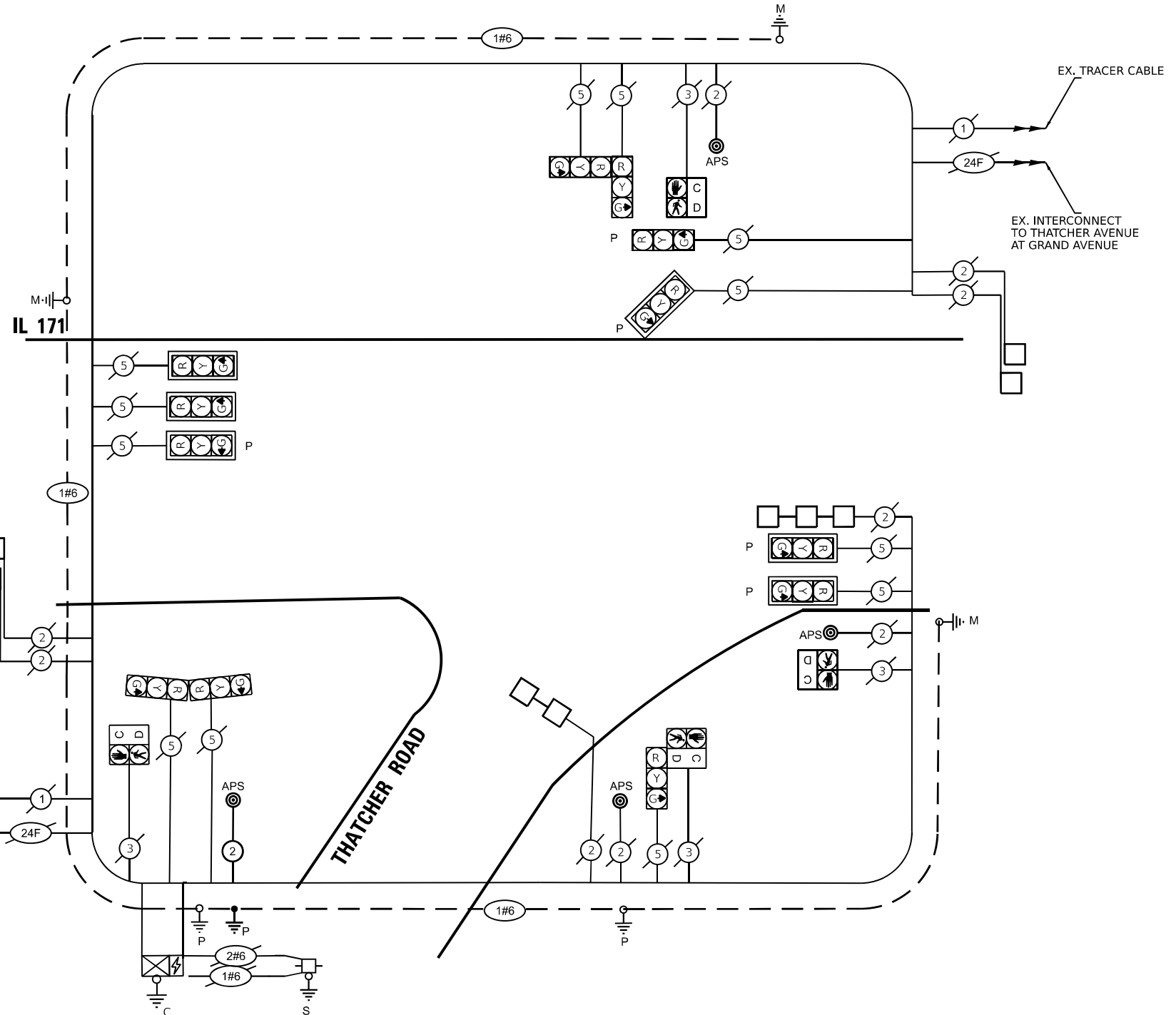
ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	137
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	854
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	274
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	75
INDUCTIVE LOOP DETECTOR	EACH	2
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	311
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,034
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	12	11	132
4-SECTION	-	14	-
5-SECTION	-	13	-
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	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING</b>	<b>367</b>		
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	-
<b>TOTAL SERVICE WIRE SIZING</b>	<b>972</b>		

ENERGY COSTS TO:  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 W CENTER CT  
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.  
PHONE: 866-639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 28972-69000  
METER NUMBER: ---



**CABLE PLAN**

MODEL: Default  
FILE NAME: c:\pwworkspace\krti.acharya\ts3660\19725-TS.dgn

**TS 3660  
EAGLE 2J**

USER NAME = krti.acharya	DESIGNED - KA	REVISED -
	DRAWN - KA	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/24/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, CONTROLLER PHASE DIAGRAM, AND  
EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM  
IL 171 AT NORTH THATCHER AVE**

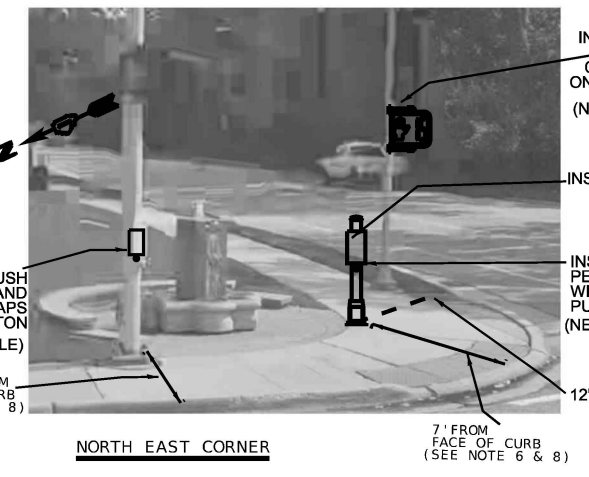
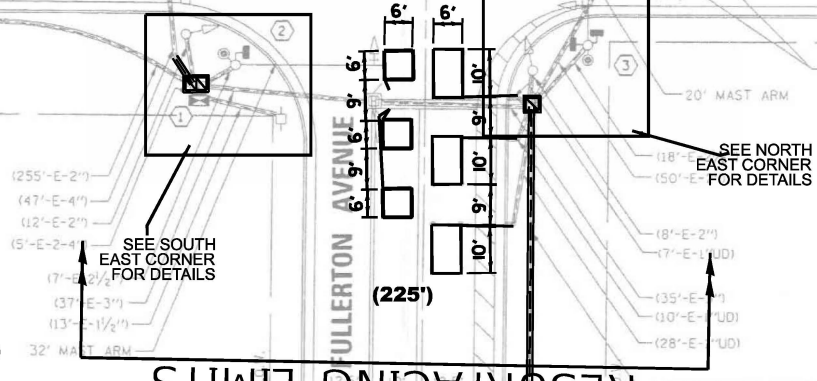
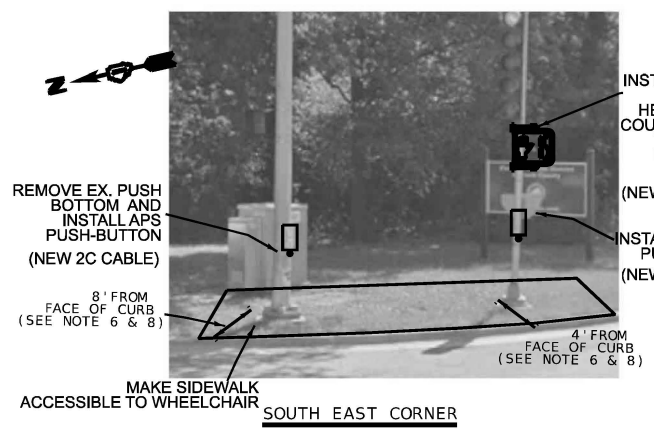
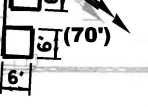
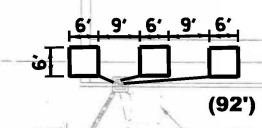
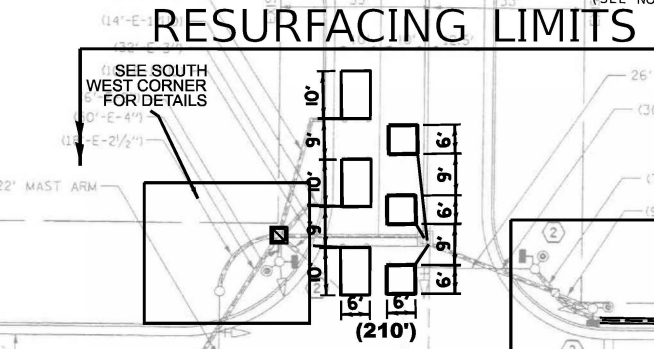
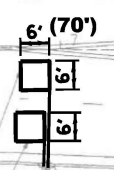
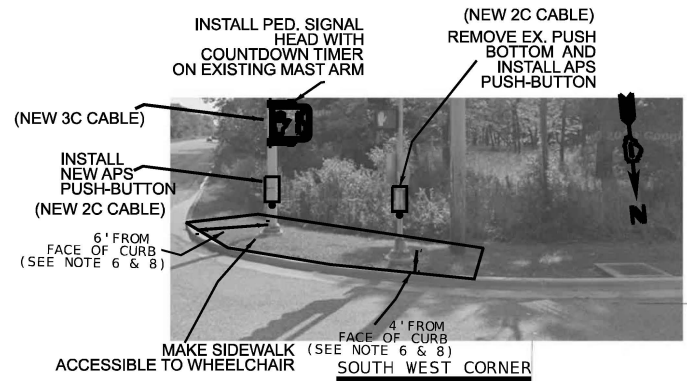
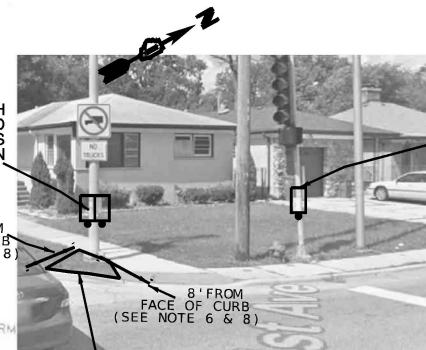
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 37
CONTRACT NO. 80B35				ILLINOIS FED. AID PROJECT



**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL ENGINEER.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).
5. ALL PUSH BUTTONS SHALL BE APS
6. NO PROPOSED PEDESTRIAN POST SHALL EXCEED 10 FT FROM BACK OF CURB
7. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED
8. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE NEXT TO TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT



**RESURFACING LIMITS**

**RESURFACING LIMITS**

**REMOVAL AND RELOCATION 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.

- 5 EACH PEDESTRIAN PUSH-BUTTON

MODEL: Default  
FILE NAME: c:\pwworkspace\kritt.acharya@illinois.gov\113026801\19725-TS.dgn

USER NAME = kriti.acharya	DESIGNED - KA	REVISED -
	DRAWN - KA	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/24/2026	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

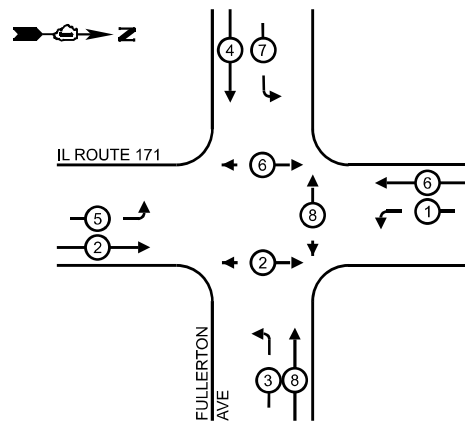
TRAFFIC SIGNAL MODERNIZATION PLAN  
IL 171 AT W FULLERTON AVE

SCALE: SHEET OF SHEETS STA. TO STA.

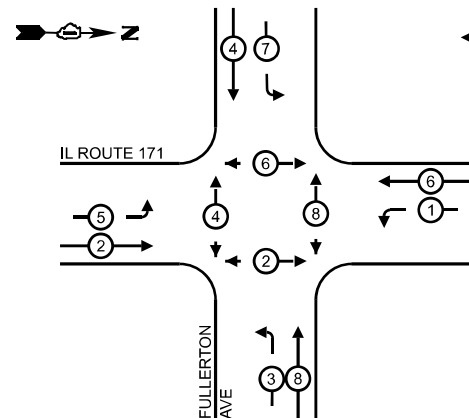
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	38
CONTRACT NO. 80B35				
ILLINOIS FED. AID PROJECT				

TS 3625  
EAGLE 2J

**EXISTING  
CONTROLLER SEQUENCE**



**PROPOSED  
CONTROLLER SEQUENCE**



- LEGEND:**
- ← ⊙ → PROTECTED PHASE
  - ← ⊙ ⊙ → PROTECTED/PERMITTED PHASE
  - ← ⊙ ⊙ ⊙ → PEDESTRIAN PHASE

**SCHEDULE OF QUANTITIES**

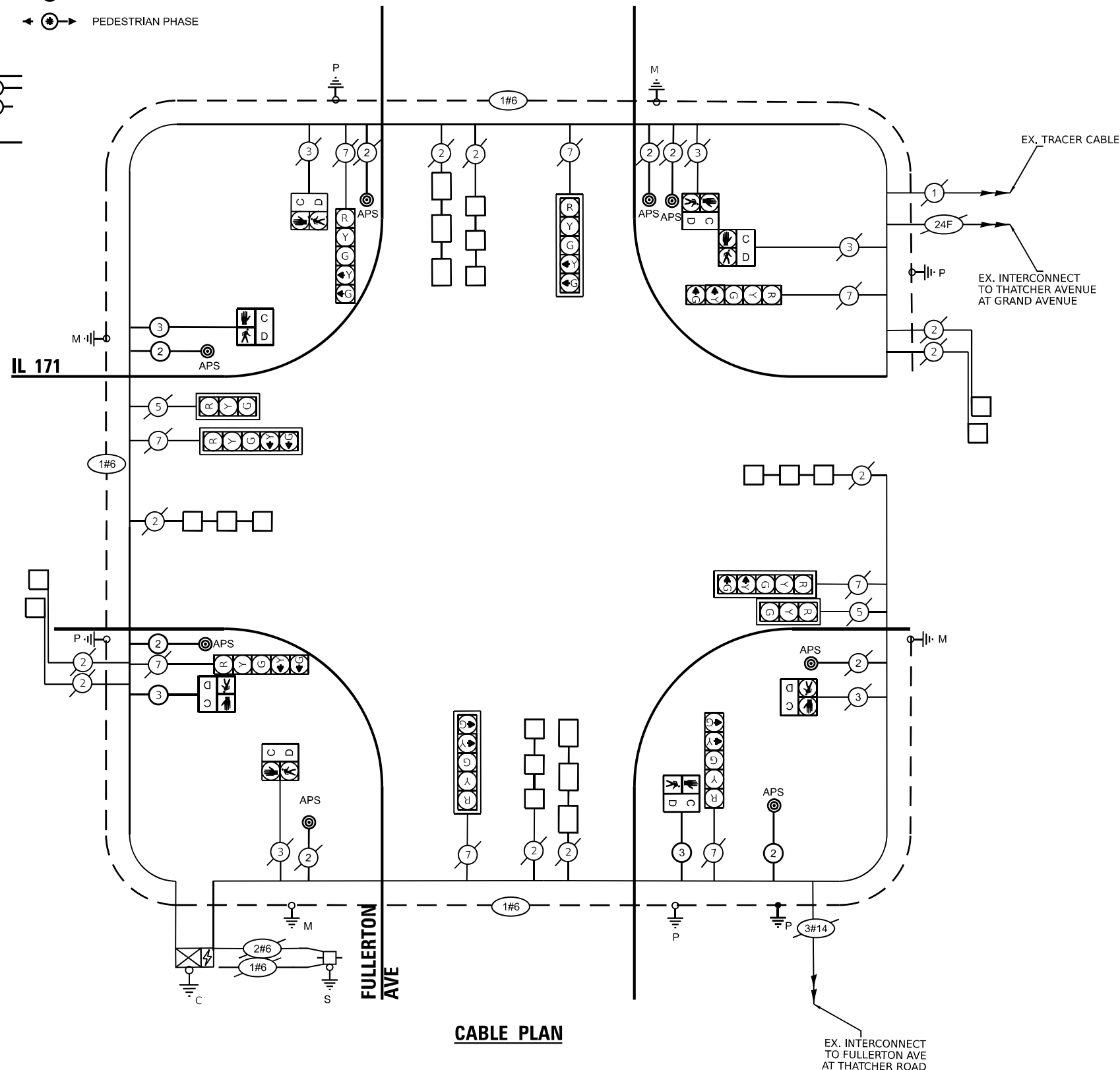
ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	12
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,118
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	345
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	29
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP REPLACEMENT	FOOT	764
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,241
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	2	11	22
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	3	15	45
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	-
<b>TOTAL UPS SIZING</b>		<b>346</b>	
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	-
<b>TOTAL SERVICE WIRE SIZING</b>		<b>951</b>	

ENERGY COSTS TO:  
VILLAGE OF RIVER GROVE  
NORTH THATCHER AVENUE  
RIVER GROVE, IL 60171

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.  
PHONE: 866-639-3532  
COMPANY: COMED  
ACCOUNT NUMBER: 79893-58000  
METER NUMBER: ---



**CABLE PLAN**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, CONTROLLER PHASE DIAGRAM, AND  
EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM  
IL 171 AT W FULLERTON AVE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	39
				CONTRACT NO. 80B35
ILLINOIS FED. AID PROJECT				

TS 3625  
EAGLE 2J

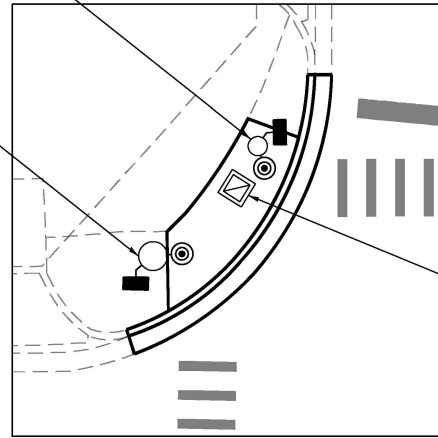
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USER NAME	DESIGNED	REVISION
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	DRAWN - KA	REVISION -
	CHECKED -	REVISION -
	DATE -	REVISION -

SCALE: SHEET OF SHEETS STA. TO STA.

PR. APS PUSH BUTTON AND PEDESTRIAN SIGNAL HEAD ON EX. POST

PR. APS PUSH BUTTON AND PEDESTRIAN SIGNAL HEAD ON EX. MAST ARM



**SOUTHWEST QUADRANT**

REBUILD EX. HANDHOLE

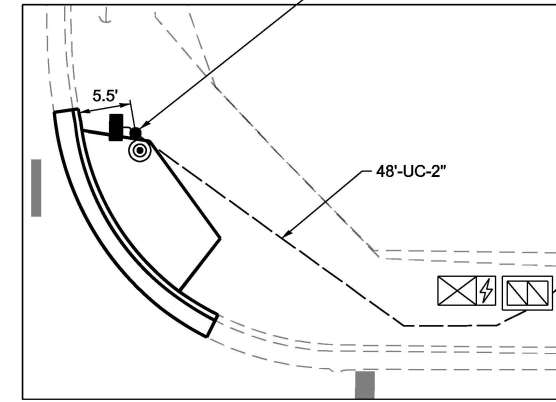
SEE SOUTHWEST QUADRANT



SEYMOUR AVE

REPLACE SIGNAL HEAD AND CABLE

SEE NORTHWEST QUADRANT



**NORTHWEST QUADRANT**

PR. APS PUSH BUTTON AND PEDESTRIAN SIGNAL HEAD ON PR. 10' PEDESTRIAN POST (12" FDN. DIA., 4' DEPTH)



DRILL EX. HANDHOLE

EX. INTERCONNECT TO UNITED PKWY

APPROX. EX. ROW

228'-E-1 1/4"

**US RTE 12-45 (MANNHEIM RD)**

EX. INTERCONNECT TO WAVELAND AVE

APPROX. EX. ROW

256'-E-1 1/4"

SEE SOUTHWEST QUADRANT

REPLACE SIGNAL HEAD AND CABLE

EX. 14' POST (RFF)

REPLACE RADAR DETECTION WITH VIDEO DETECTION

71'-E-2"

EX. 18' POST (RFF)

DRILL EX. HANDHOLE (1)

11'-UC-3"

30' M.A. - 30" DIA. FDN. (13.5' DEPTH)

EX. M.A. (RMF)

14'-UC-3"

44' M.A. - 36" DIA. FDN. (13' DEPTH)

EX. 16' POST

18'-E-2"

96'-UC-4"

96'-E-3"

DRILL EX. HANDHOLE (2)

103'-E-2 1/2"

EX. 14' POST

4'-E-2"

9'-E-2 1/2"

EX. 36' M.A.

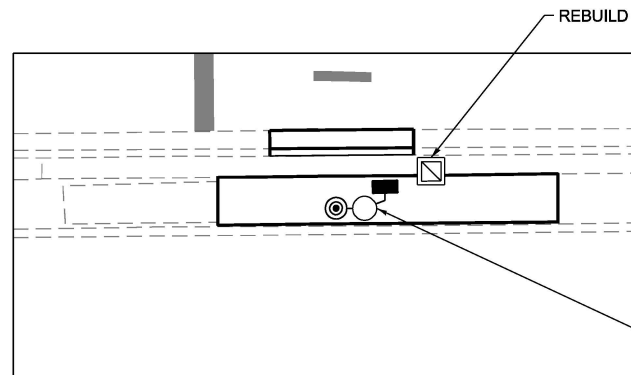
60'-E-2"

20'-E-1 1/2"

5'-E-2-4"

**NOTES:**

1. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.
2. THIS LOCATION HAS BEEN DESIGNED TO BE PROWAG/MUTCD COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE TRAFFIC SIGNAL MAST ARMS AND/OR POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE COMPLIANCE.
3. THE MOUNTING LOCATION OF THE VIDEO DETECTOR WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. THE EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
5. THIS PLAN SHEET IS FOR APS INSTALLATION, VIDEO DETECTION INSTALLATION AND SIGNAL HEAD REPLACEMENT ONLY. ALL OTHER INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY.



**SOUTHEAST QUADRANT**

REBUILD EX. HANDHOLE

PR. APS PUSH BUTTON AND PEDESTRIAN SIGNAL HEAD ON EX. MAST ARM

**REMOVAL NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THIS WORK SHALL BE PAID UNDER THE PAY ITEM REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- |   |      |                            |
|---|------|----------------------------|
| 1 | EACH | RADAR DETECTION (COMPLETE) |
| 2 | EACH | TRAFFIC SIGNAL HEAD        |

MODEL: Default  
FILE NAME: p:\r\11010-pw\_bentley.com\p\11010\Documents\DOT\_Offices\District 1\ORR Projects\119725\CADDData\Traffic\119725-TS.dgn

USER NAME =	krill.acharya	DESIGNED -	KA	REVISED -	
		DRAWN -	KA	REVISED -	
		CHECKED -	NB	REVISED -	
PLOT DATE =	5/4/2026	DATE -	5/1/2026	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC MODIFICATION PLAN  
US RTE 12-45 (MANNHEIM RD) AT SEYMOUR AVE

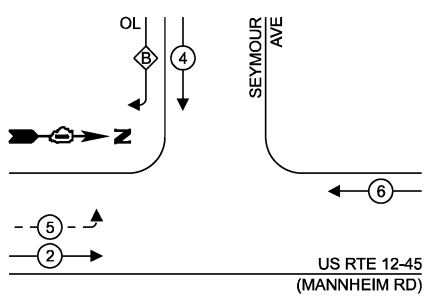
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2025-2003-RS	COOK	63	40
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80B35	

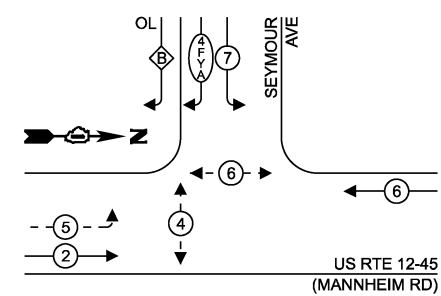
TS 11030  
EAGLE 2C



**EXISTING CONTROLLER PHASE DIAGRAM**



**PROPOSED CONTROLLER PHASE DIAGRAM**



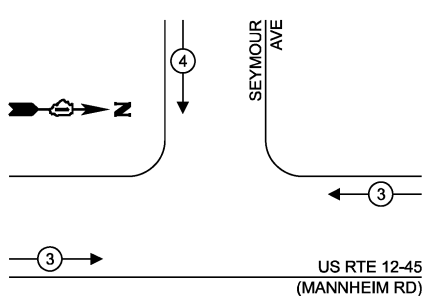
**LEGEND:**

- ← \* → PROTECTED PHASE
- ← \* - PROTECTED/PERMISSIVE PHASE
- ← \* → PEDESTRIAN PHASE
- ← \* OL → OVERLAP

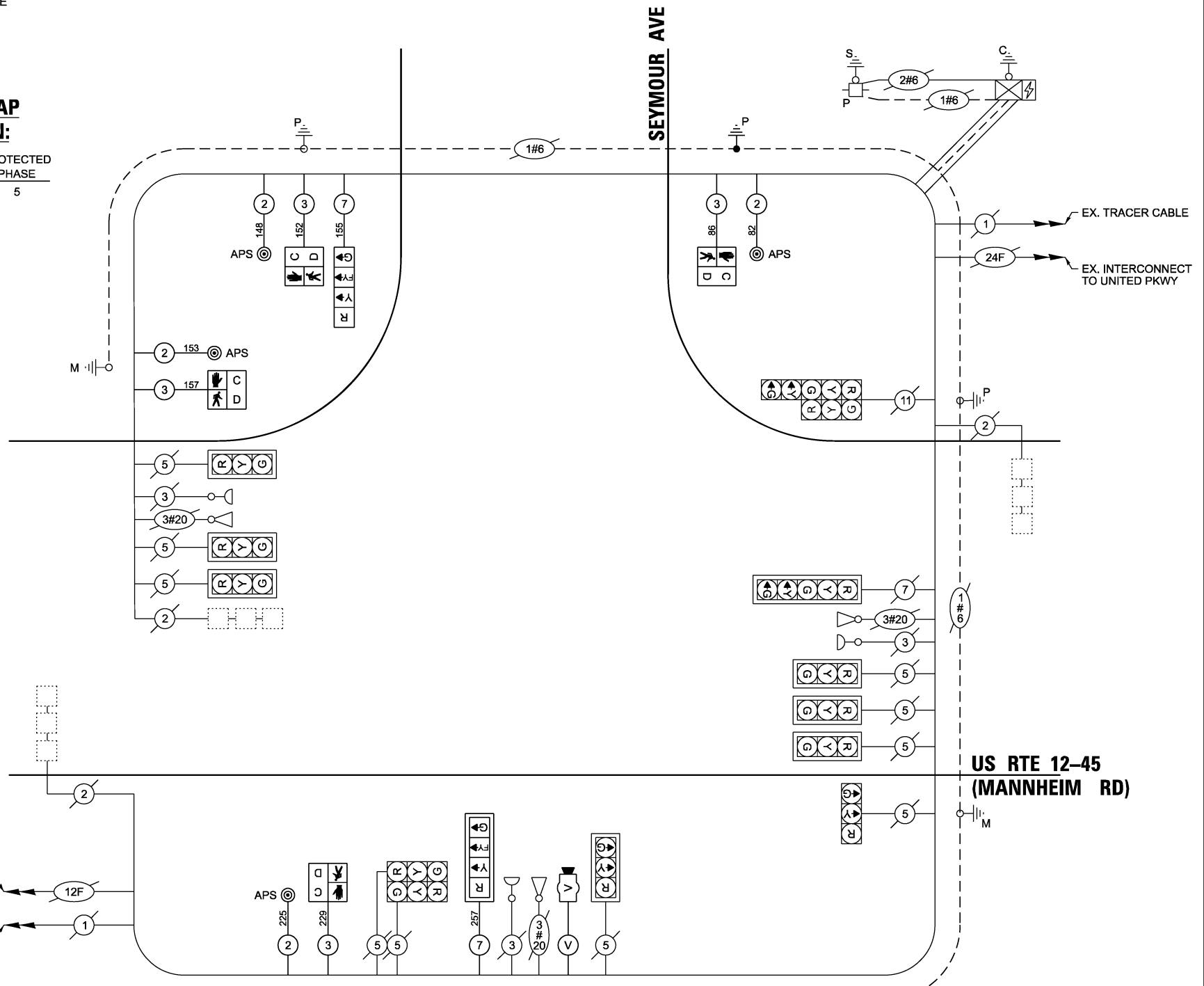
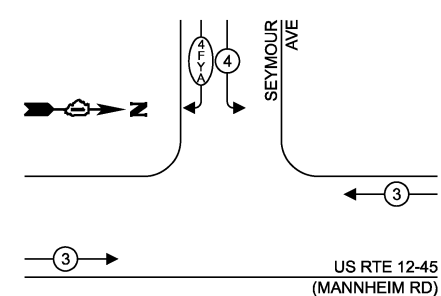
**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE  
 B = 4 (FYA) + 5

**EXISTING EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM**



**PROPOSED EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM**



**CABLE PLAN**

**TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	1 OR 3-SECTION	11	121
	4-SECTION	2	28
	5-SECTION	2	26
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL CONTROLLER	4	15	60
MASTER CONTROLLER	1	150	150
UPS	1	25	25
DETECTION VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
PTZ CAMERA	-	75	-
<b>TOTAL UPS SIZING</b>			<b>430</b>
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	-
<b>TOTAL SERVICE WIRE SIZING</b>			<b>1035</b>

ENERGY COSTS TO:  
 VILLAGE OF FRANKLIN PARK  
 9500 BELMONT AVENUE  
 FRANKLIN PARK, IL 60131

ENERGY SUPPLY: CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 COMPANY: COMED  
 ACCOUNT NUMBER: 75175-71222  
 METER NUMBER: \_\_\_\_\_

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN AND PHASE DIAGRAMS  
 US RTE 12-45 (MANNHEIM RD) AT SEYMOUR AVE**

**TS 11030  
 EAGLE 2C**

USER NAME = kffl.acharya	DESIGNED - KA	REVISED -	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 5/4/2026	DRAWN - KA	REVISED -	SCALE:	2025-2003-RS	COOK	63	41
	CHECKED - NB	REVISED -	SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 80B35			
	DATE - 5/1/2026	REVISED -		ILLINOIS FED. AID PROJECT			

MODEL: Default  
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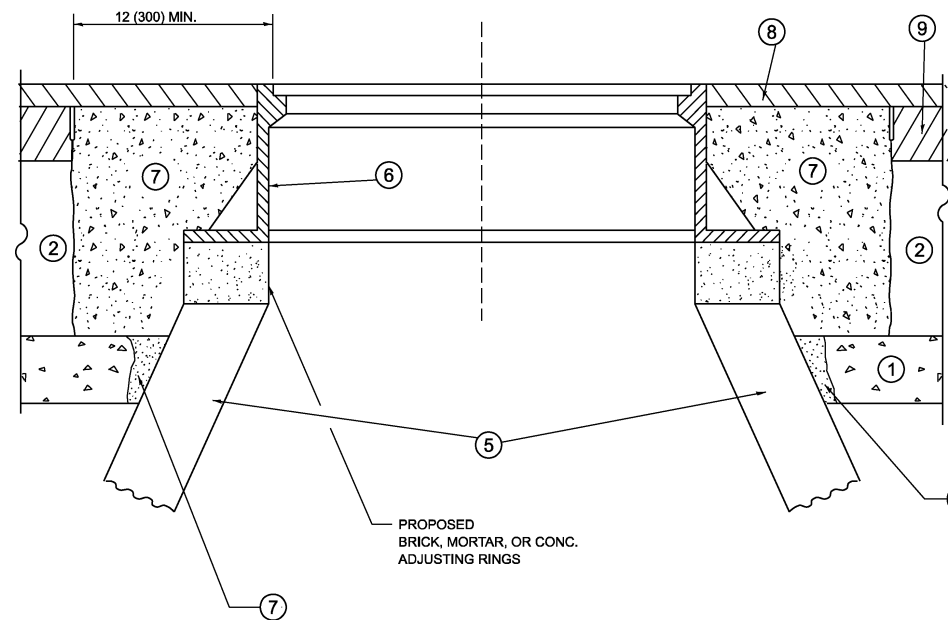
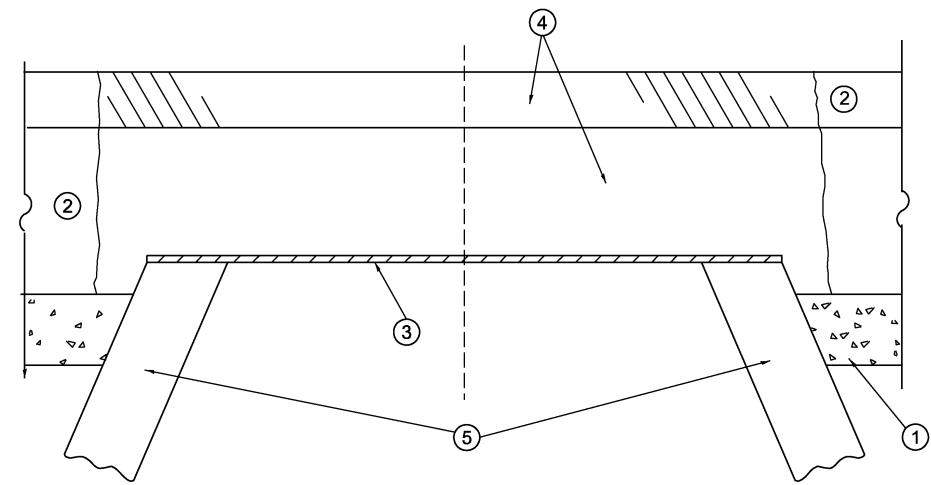
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 FILE NAME: p:\r\l\dc-pw.bentley.com\FWIDOT\Documents\DOT\_Offices\District\_1\CRD\_Projects\119725\CADData\Traffic\119725-TS.dgn

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	48
REBUILD EXISTING HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	608
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	624
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	412
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	58
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	681
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
VIDEO VEHICLE DETECTION SYSTEM	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TS 11030  
 EAGLE 2C**

USER NAME = kfilacharya	DESIGNED - KA	REVISED -	<b>STATE OF ILLINOIS        DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES        US RTE 12-45 (MANNHEIM RD) AT SEYMOUR AVE</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - KA	REVISED -			VAR	2025-2003-RS	COOK	63	41A	
	CHECKED - NB	REVISED -			CONTRACT NO. 80B35					
PLOT DATE = 5/4/2026	DATE - 5/1/2026	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
					ILLINOIS FED. AID PROJECT					



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

**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) 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)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) 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
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-2\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**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**

- 1. 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)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. 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

**NOTES**

- 1. 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.
- 2. 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.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SCALE: NONE SHEET 11 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	42
<b>BD600-03 (BD-08)</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				

USER NAME = jammal.alramahi	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 3/20/2026	DATE - 10-25-94	REVISED - K. SMITH 09-15-23

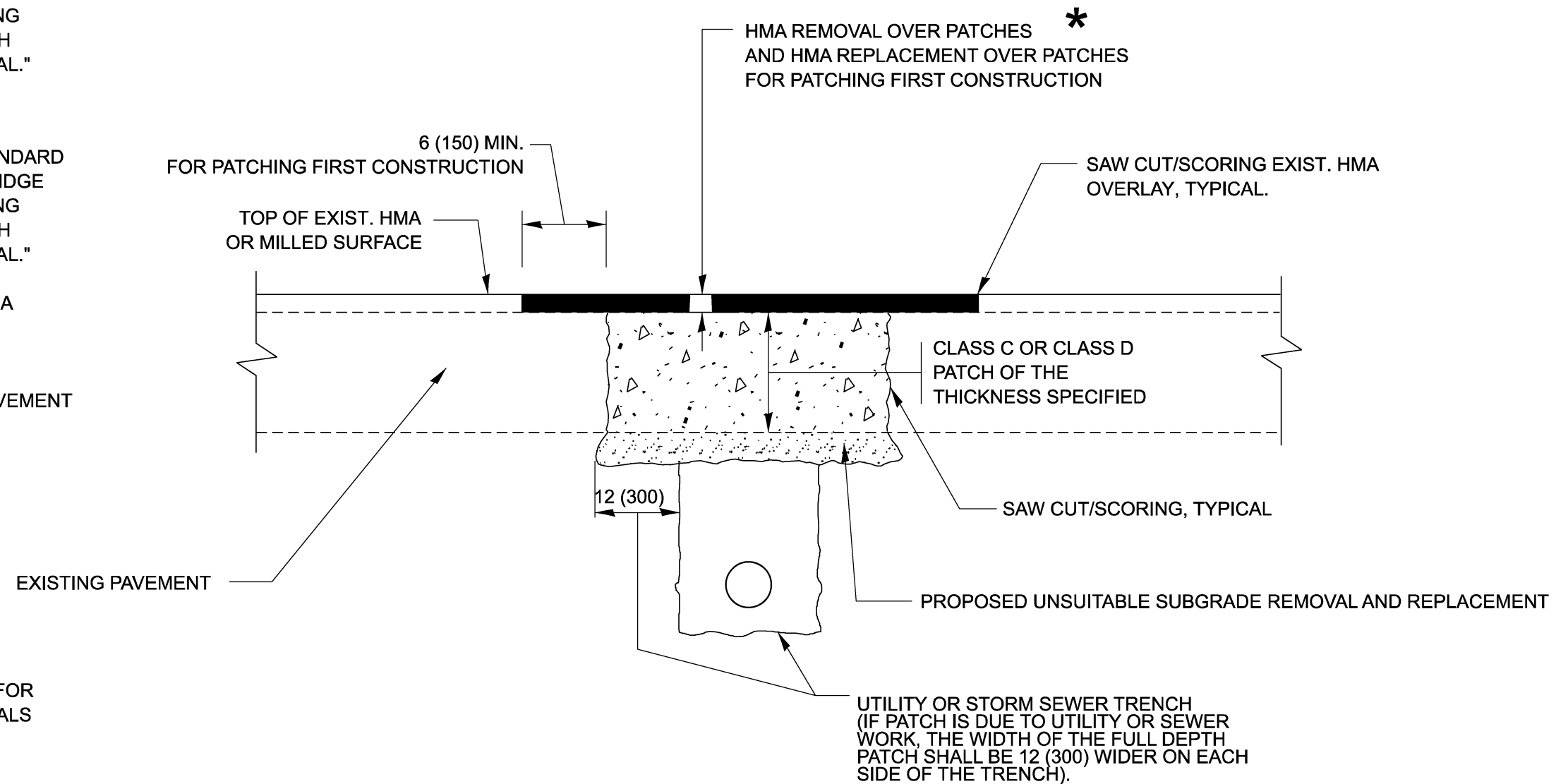
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## METHOD OF MEASUREMENT

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 ½ 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.

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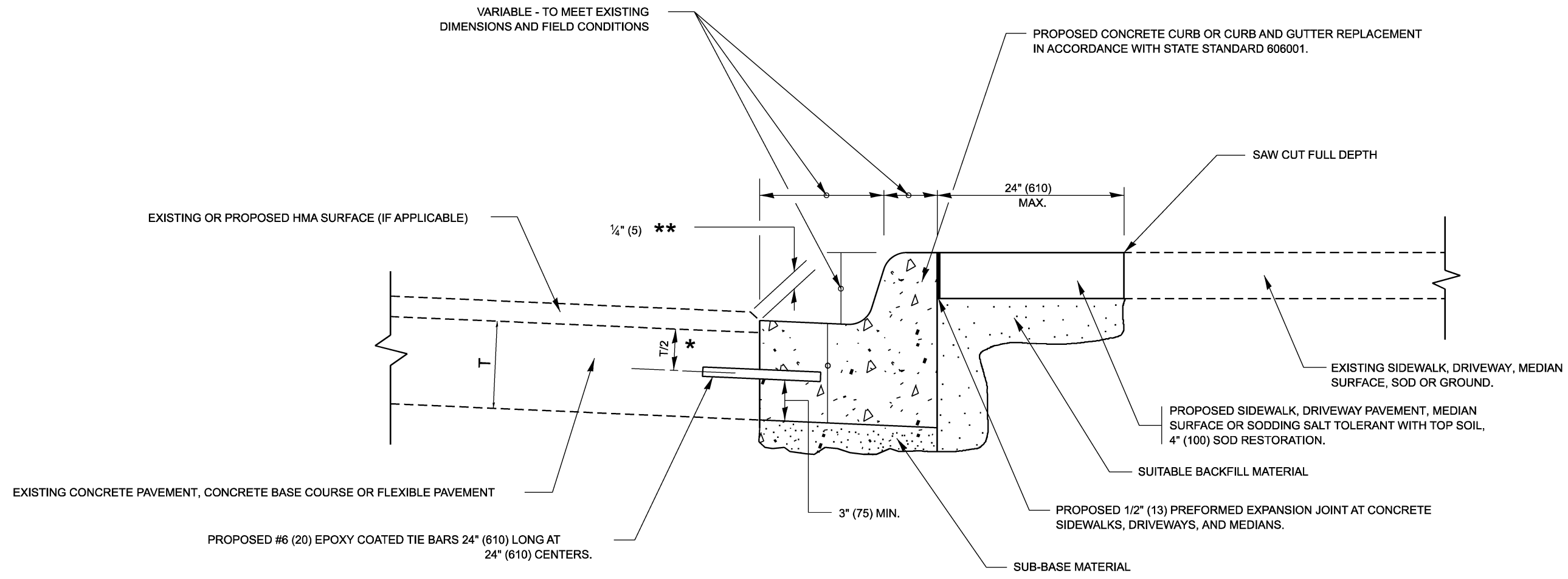
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	DRAWN -	REVISED - R. BORO 09-04-07
	CHECKED -	REVISED - K. ENG 10-27-08
PLOT DATE = 3/20/2026	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT

SCALE: NONE SHEET 21 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	43
BD400-04 (BD-22)			CONTRACT NO. 80B35	
ILLINOIS FED. AID PROJECT				



- \* 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.

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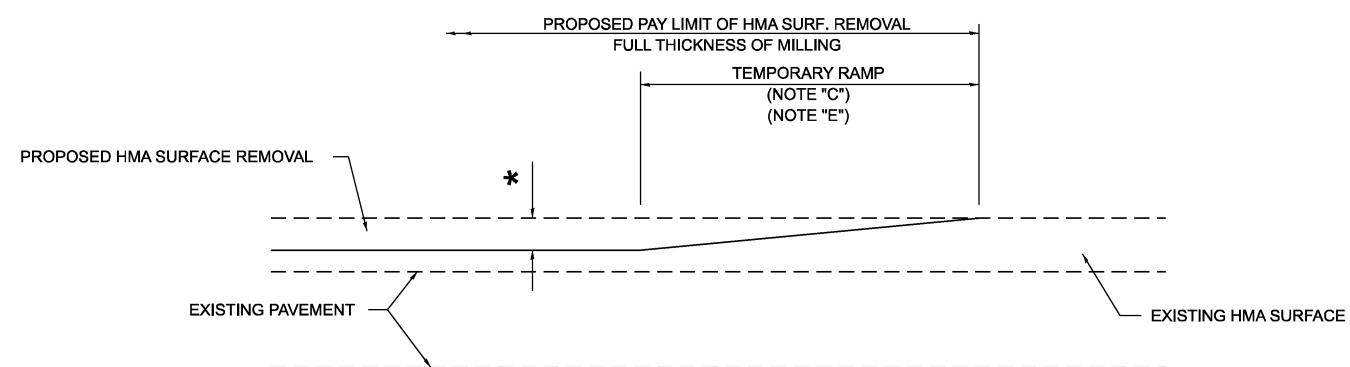
USER NAME = jammal.aramahi	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 3/20/2026	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT**

SCALE: NONE    SHEET 3 OF 22 SHEETS    STA.    TO STA.

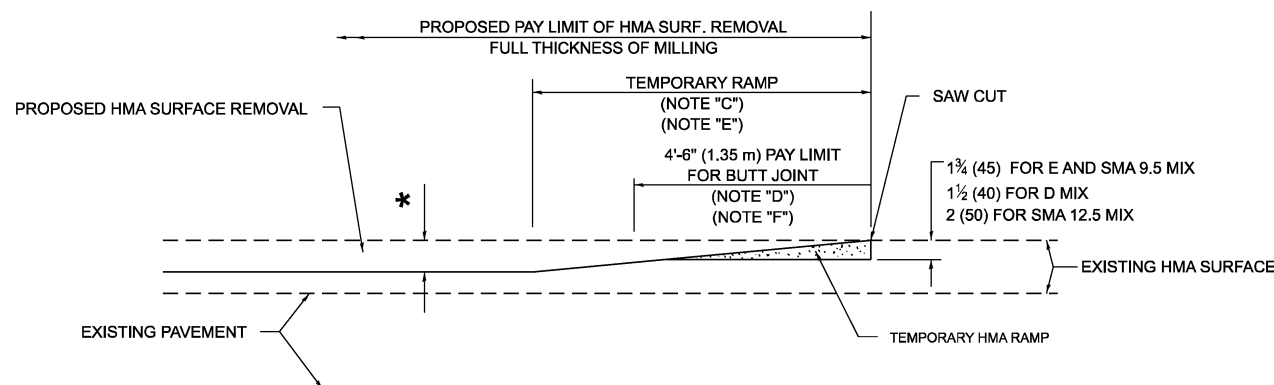
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	44
<b>BD600-06 (BD-24)</b>			CONTRACT NO. 80B35	
ILLINOIS   FED. AID PROJECT				



**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

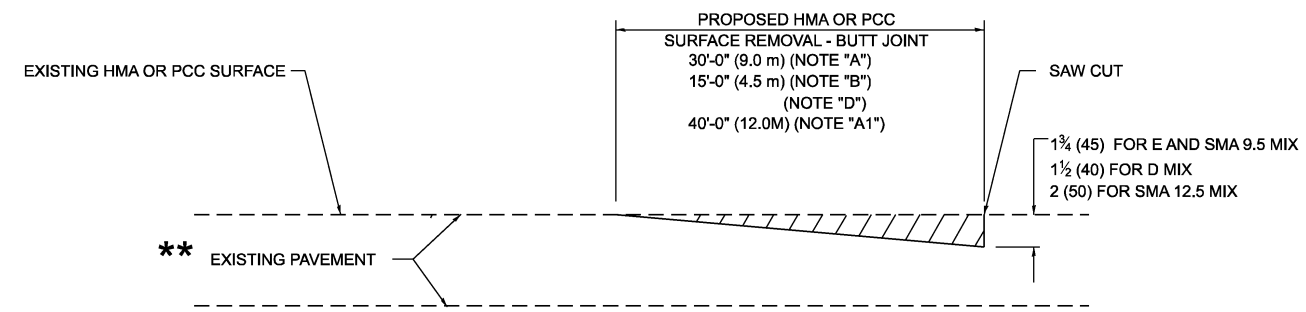


**HMA CONSTRUCTED TEMPORARY RAMP**

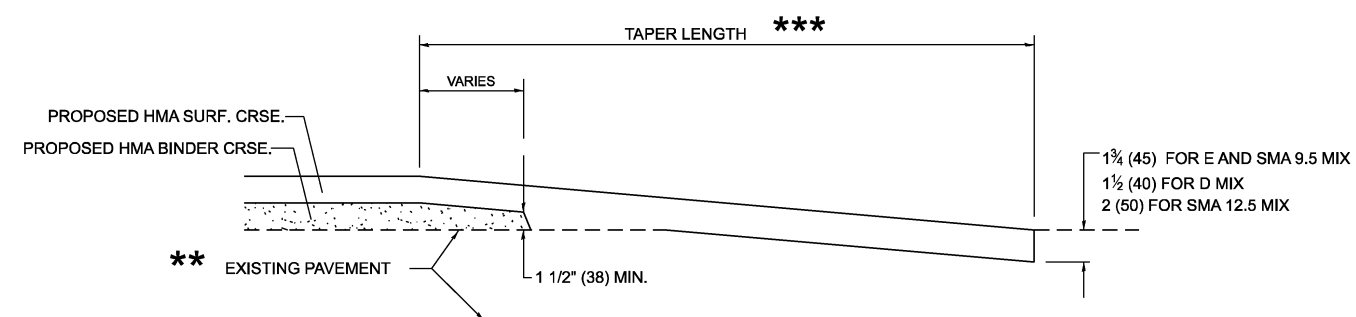
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



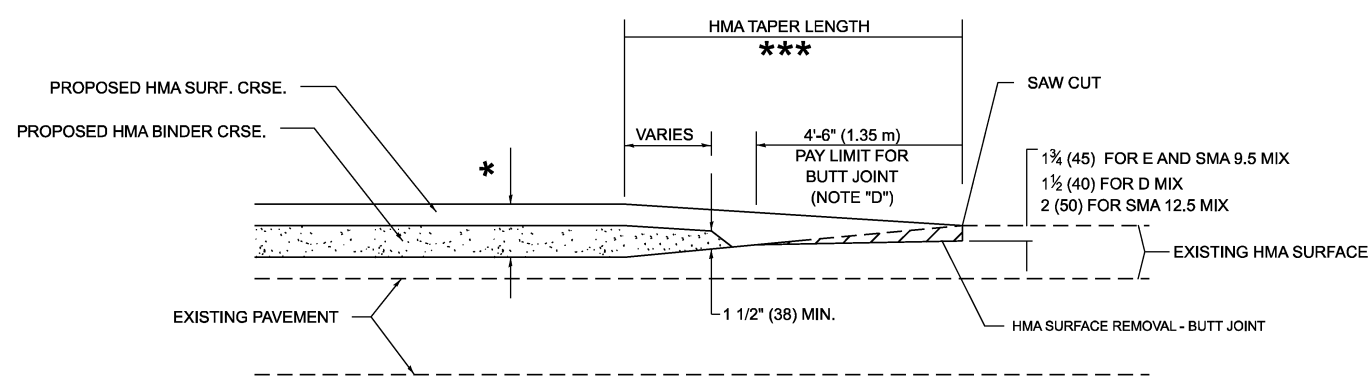
**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.



**BUTT JOINT AND HMA TAPER**

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

**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.

MODEL: BD-32  
FILE NAME: c:\pwworking\jammal.aramah@illinois.gov\d1130262\119725-shr-DistSds.dgn

USER NAME = jammal.aramahi	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 = 3/20/2026	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

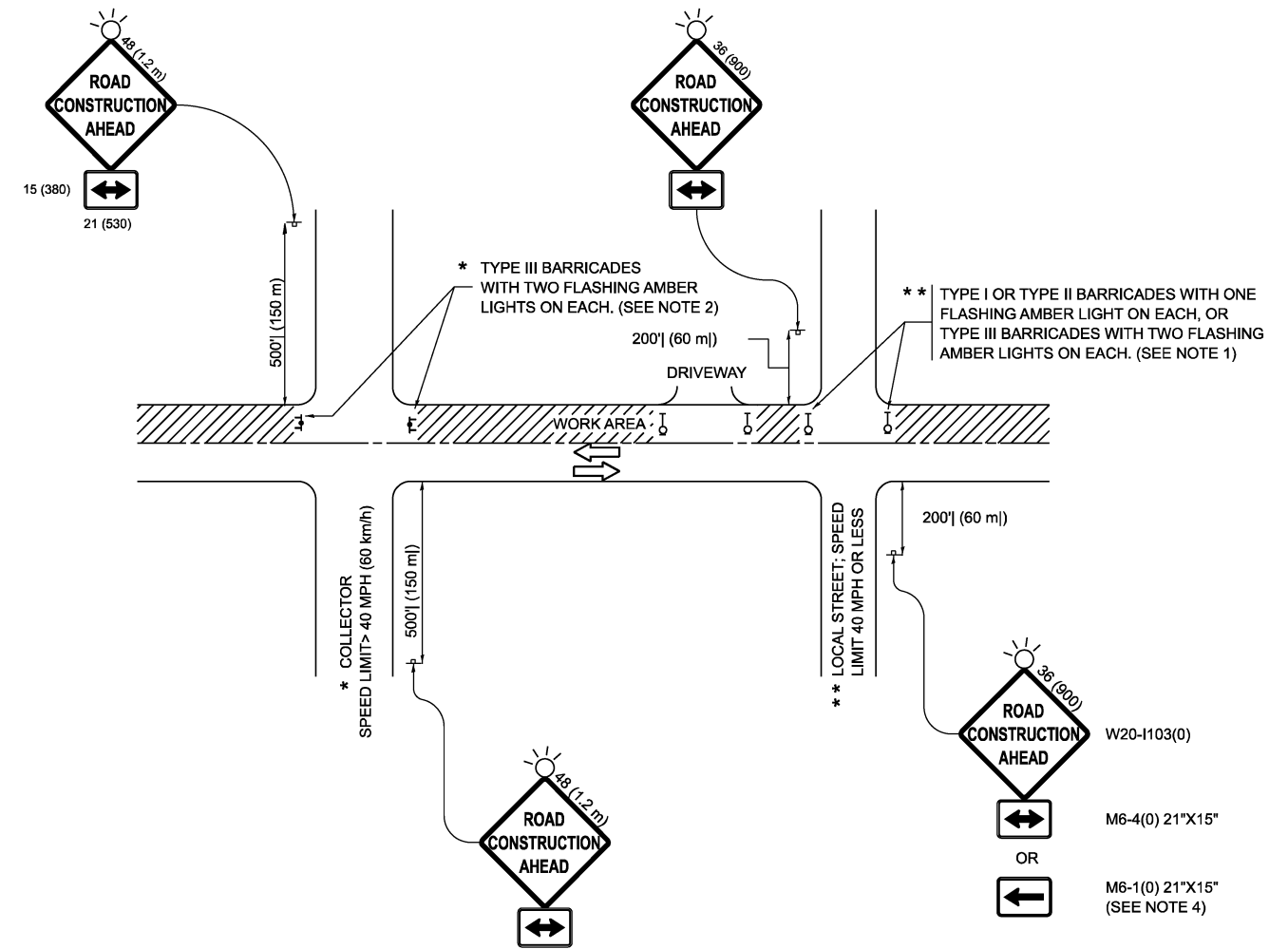
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**BUTT JOINT AND HMA TAPER DETAILS**

SCALE: NONE SHEET 41 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	45
<b>BD400-05 BD-32</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				

MODEL: TC-10  
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**NOTES:**

1. 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:
  - a) 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.
  - b) 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.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) 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.
  - b) 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.
3. 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.
4. 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).
5. 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.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

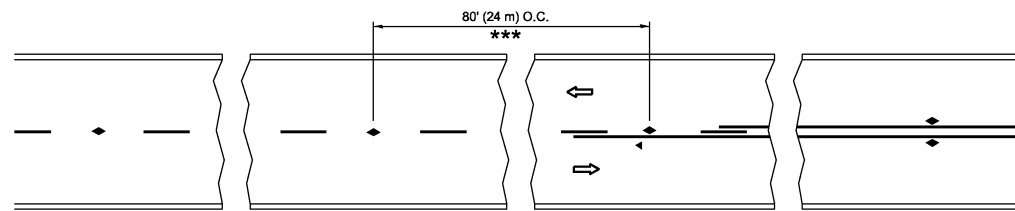
USER NAME = jammal.aramahi	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
	CHECKED -	REVISED - A. SCHUETZE 09-15-06
PLOT DATE = 3/20/2026	DATE - 06-89	REVISED - D. SENDERAK 05-03-25

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

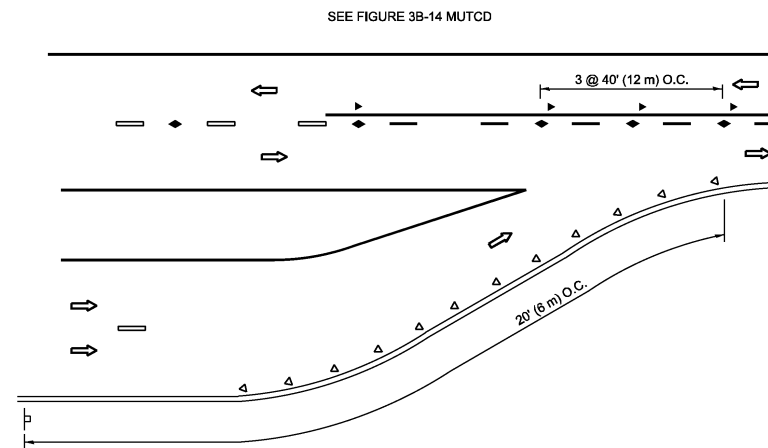
SCALE: SHEET 5 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			CONTRACT NO. 80B35	
ILLINOIS FED. AID PROJECT				

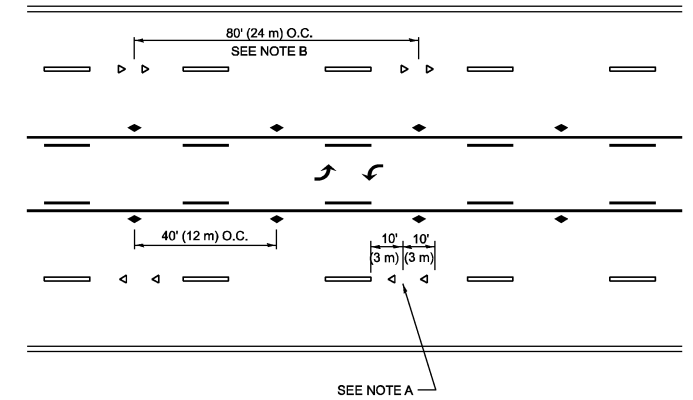


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

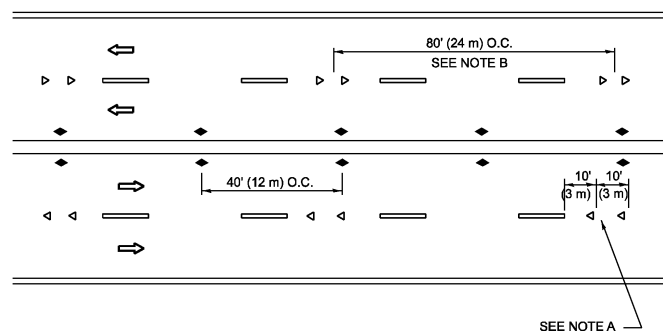
### TWO-LANE/TWO-WAY



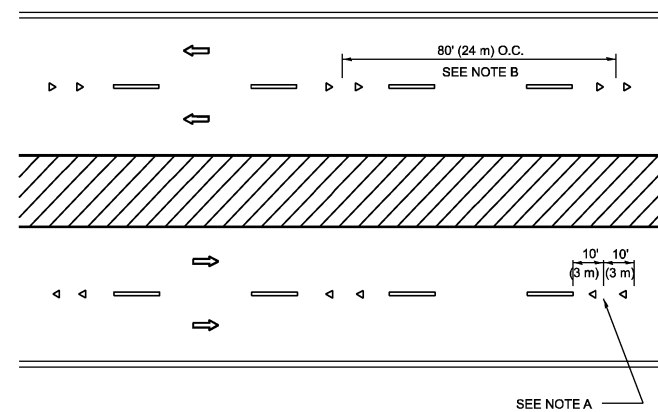
### LANE REDUCTION TRANSITION



### TWO-WAY LEFT TURN



### MULTI-LANE/UNDIVIDED



### MULTI-LANE/DIVIDED

### GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

### SYMBOLS

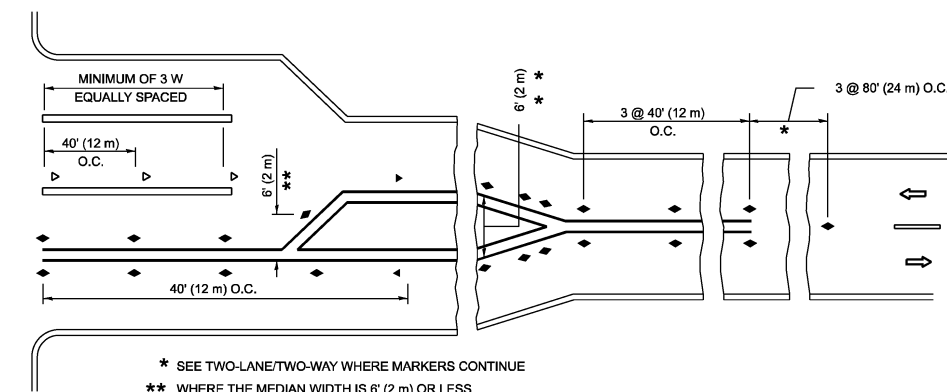
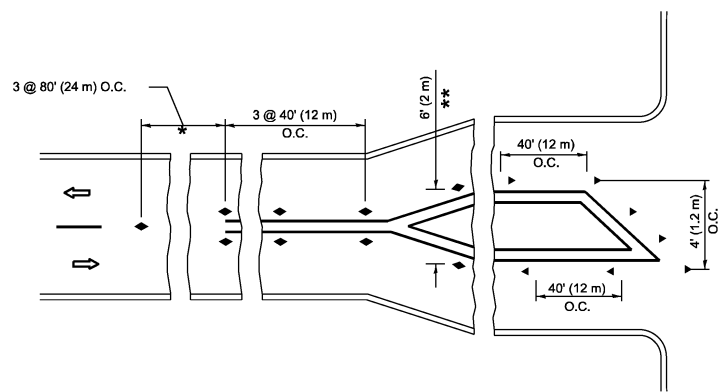
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

### LANE MARKER NOTES

- 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.

### DESIGN NOTES

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



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

### TURN LANES

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

MODEL: TC-11  
 FILE NAME: c:\pwwork\jammal.aramahi@illinois.gov\1130262\119725-shl-DistSigs.dgn

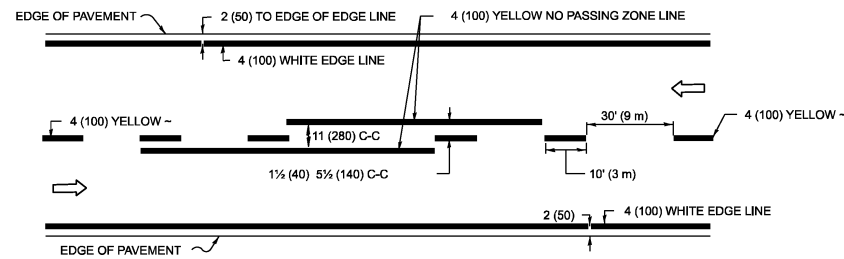
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/20/2026	DATE -	REVISED - C. JUCIUS 07-01-13

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

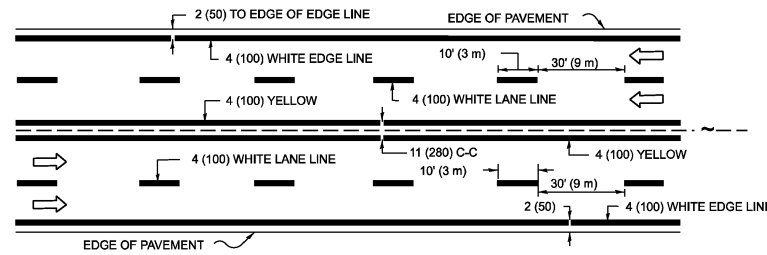
TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE SHEET 8 OF 22 SHEETS STA. TO STA.

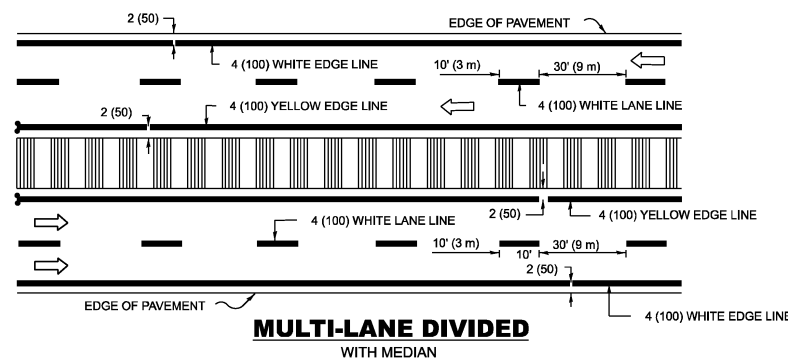
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	47
TC-11			CONTRACT NO. 80B35	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

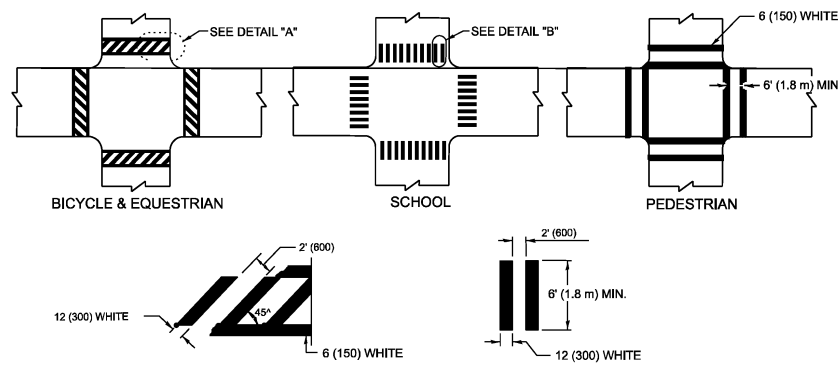


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

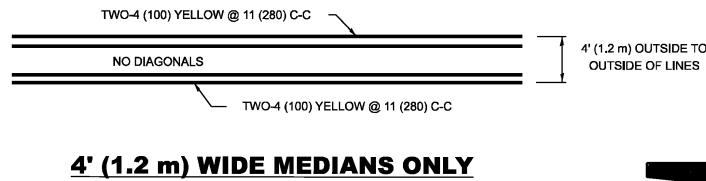


**DETAIL "A"**

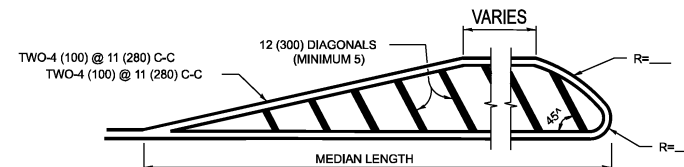
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

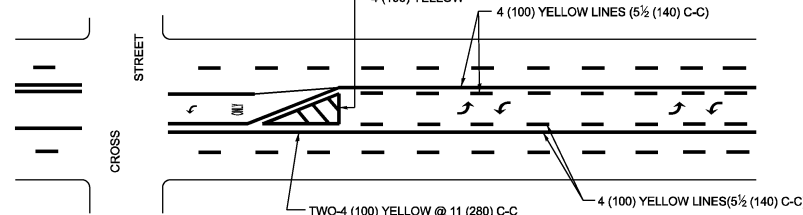
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



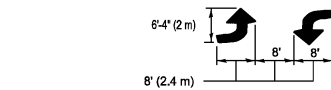
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

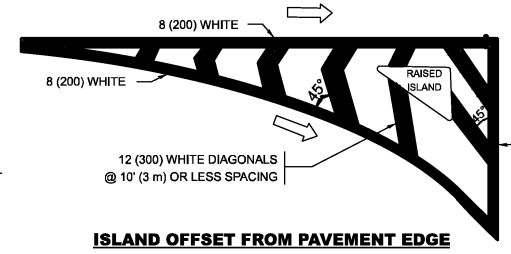


**TYPICAL LEFT (OR RIGHT) TURN LANE**

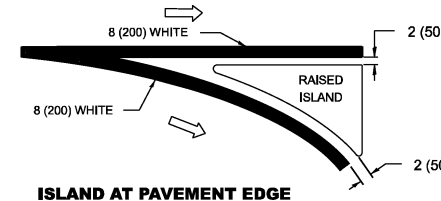
**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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".



**ISLAND OFFSET FROM PAVEMENT EDGE**

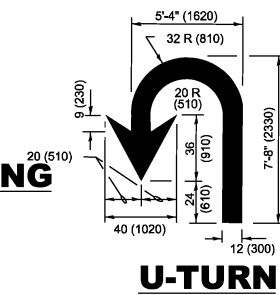


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**

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

**COMBINATION LEFT AND U-TURN**



**U-TURN**

**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	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) 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; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
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 (30 MPH (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: 15 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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

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.

MODEL: TC-13  
FILE NAME: c:\pwworking\jammal.aramahi\illinois.gov\1130262\119725-shh-DistStd.dgn

USER NAME = jammal.aramahi	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN - C. JUCIUS 07-01-13	REVISED - C. JUCIUS 12-21-15
	CHECKED - C. JUCIUS 04-12-16	REVISED - C. JUCIUS 04-12-16
PLOT DATE = 3/20/2026	DATE - 03-19-90	

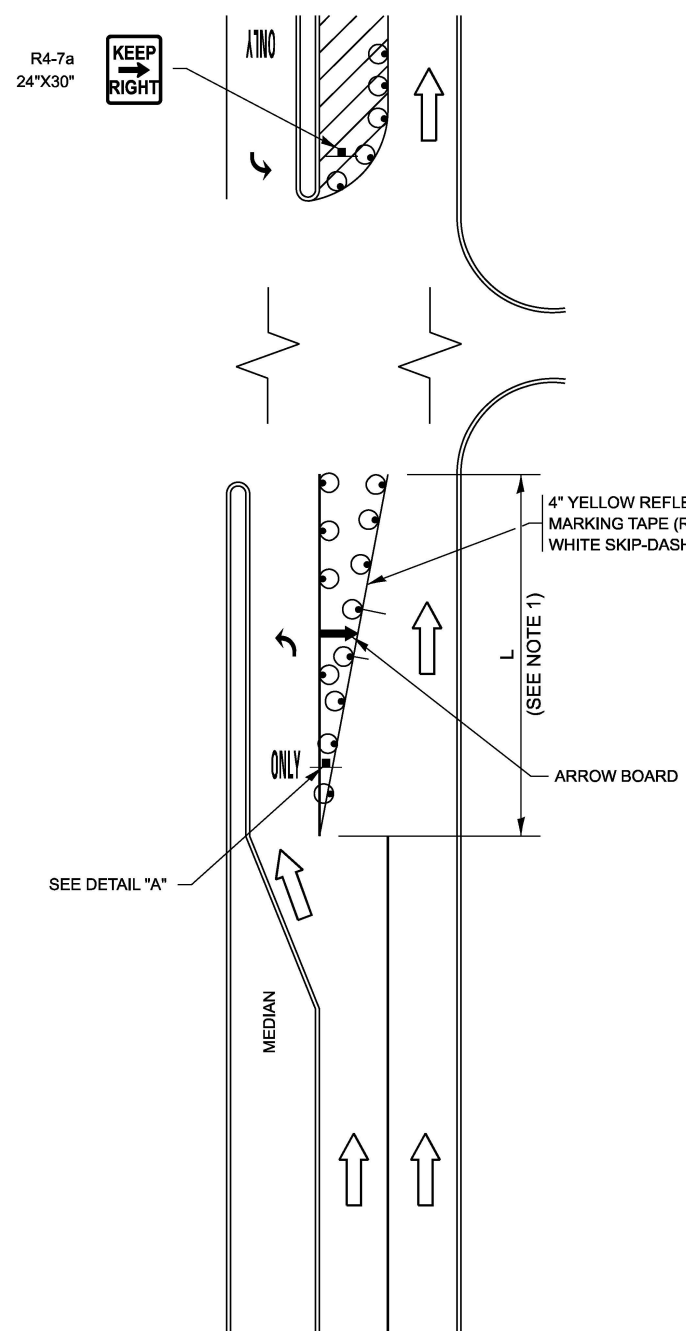
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 71 OF 22 SHEETS STA. TO STA.

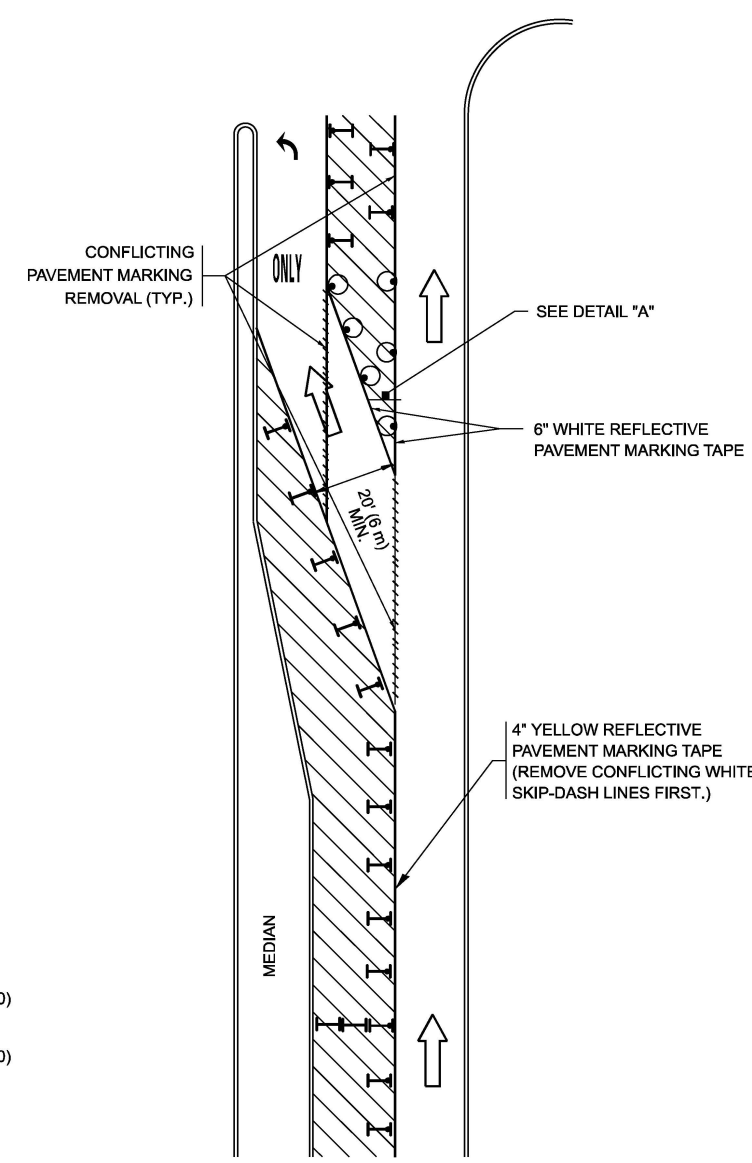
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	48
<b>TC-13</b>		CONTRACT NO. 80B35		
ILLINOIS		FED. AID PROJECT		

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



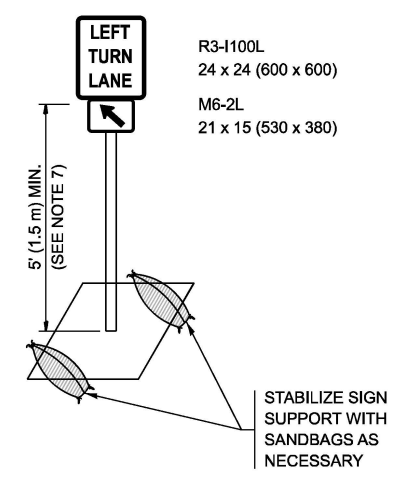
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

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

MODEL: TC-14  
FILE NAME: c:\pwworking\jammal.aramahi\illinois\gov\1130262\119725-shl-DistSds.dgn

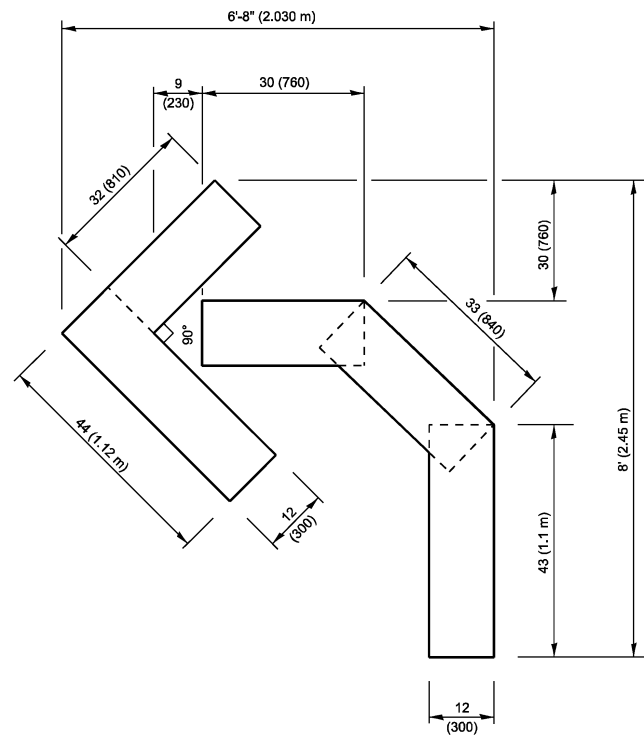
USER NAME = jammal.aramahi	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/20/2026	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

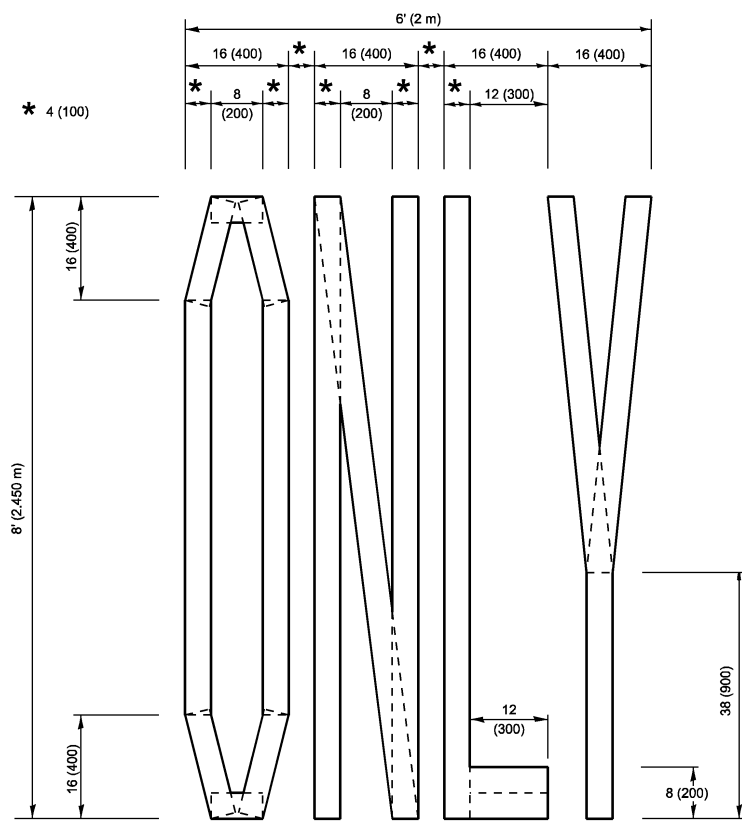
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET 8 OF 22 SHEETS STA. TO STA.

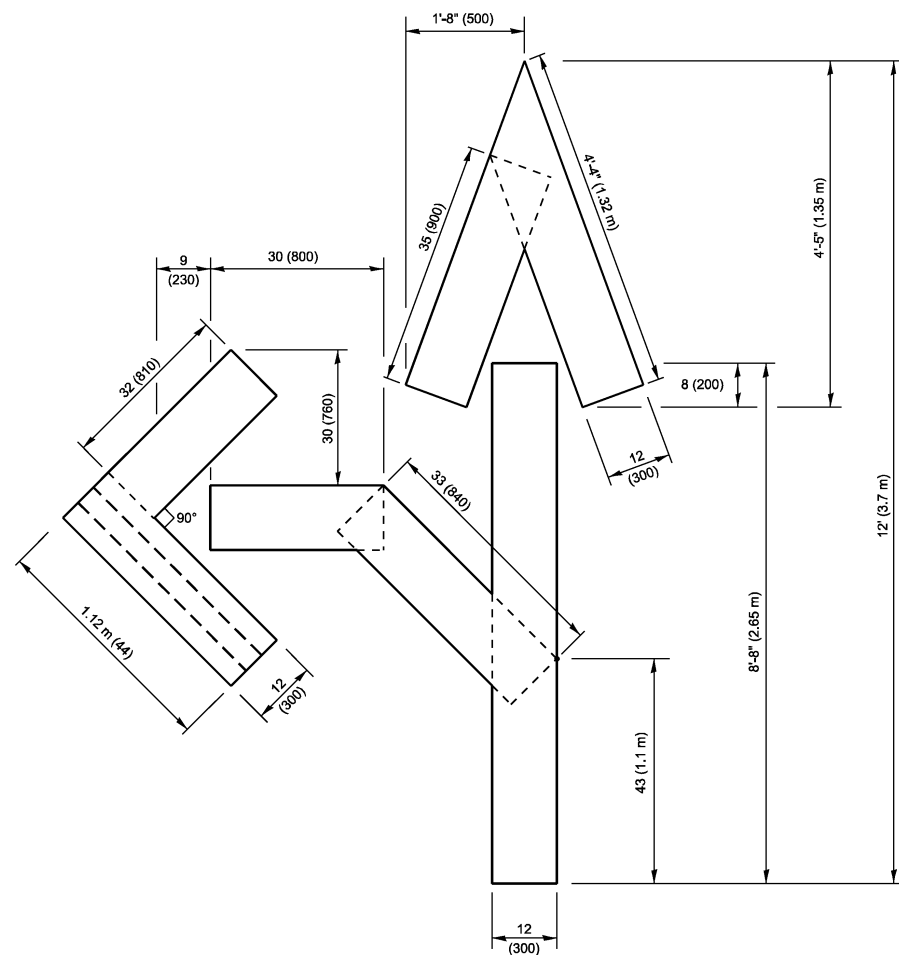
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	49
<b>TC-14</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)



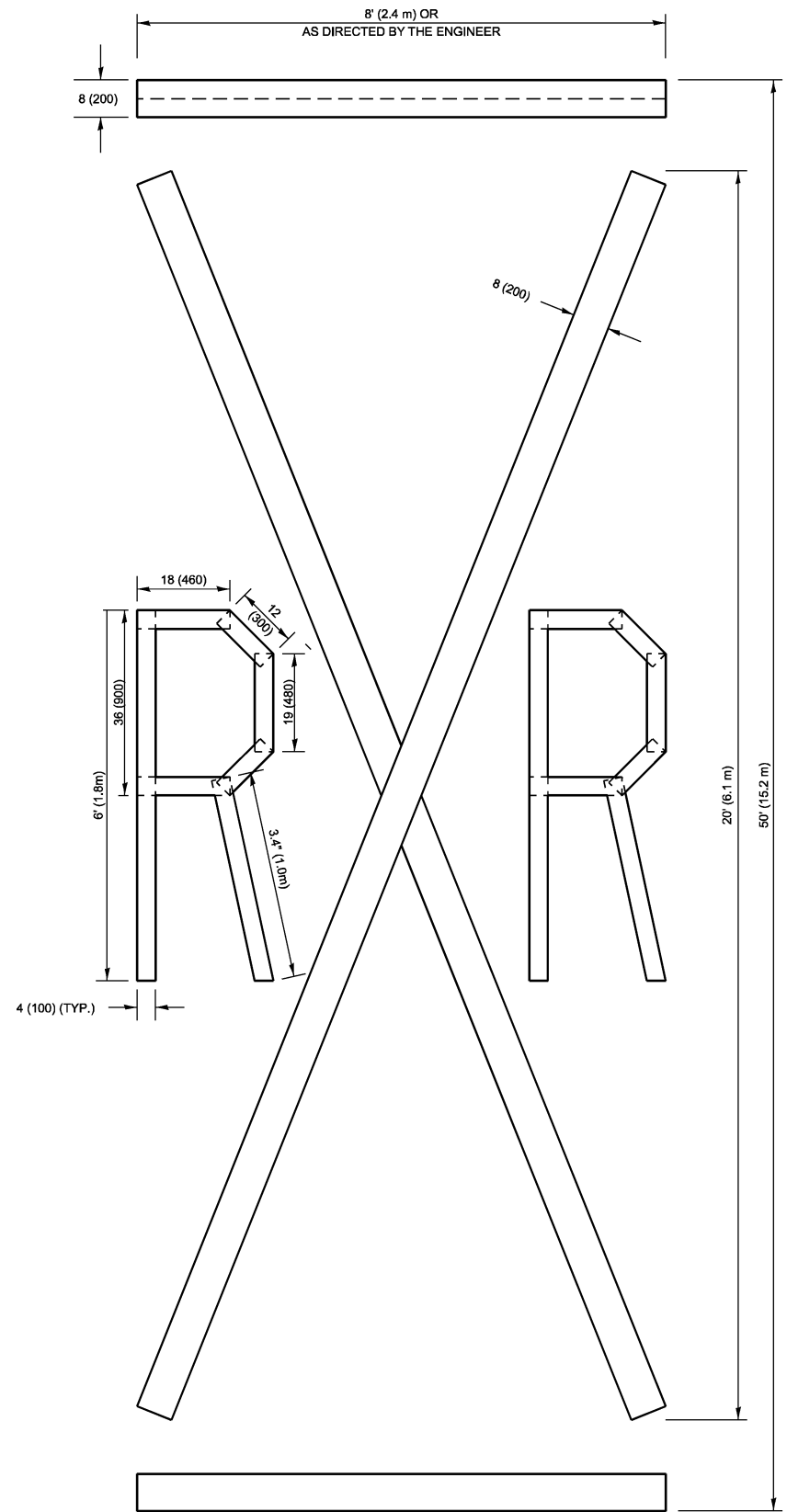
**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

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

MODEL: TC-16  
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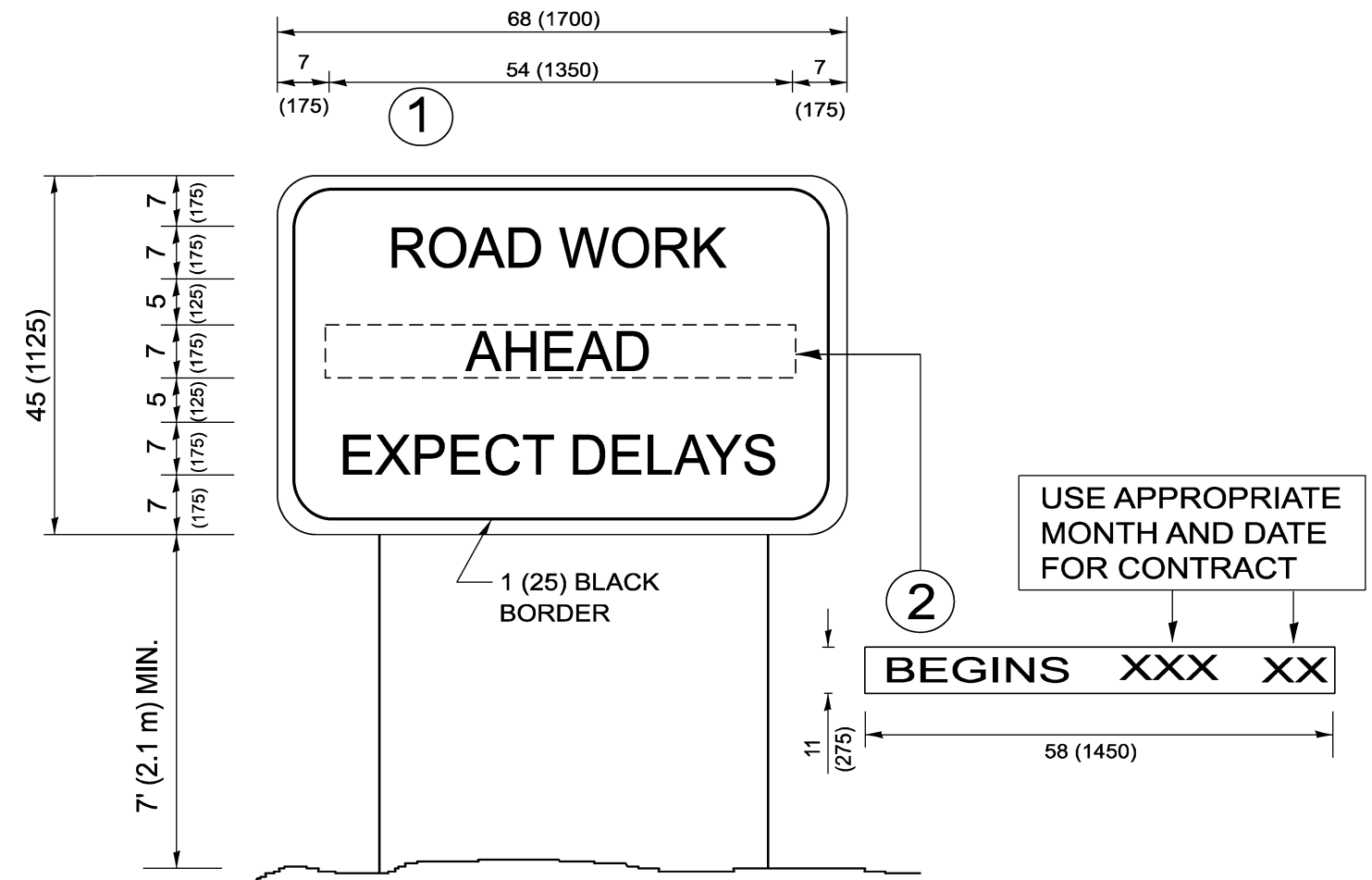
USER NAME = jammal.aramahi	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/20/2026	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

SCALE: NONE SHEET 91 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	50
<b>TC-16</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				



**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.

MODEL: TC-22  
FILE NAME: c:\pwworkspace\jammal.aramahi@illinois.gov\1130262\119725-sht-DistSigs.dgn

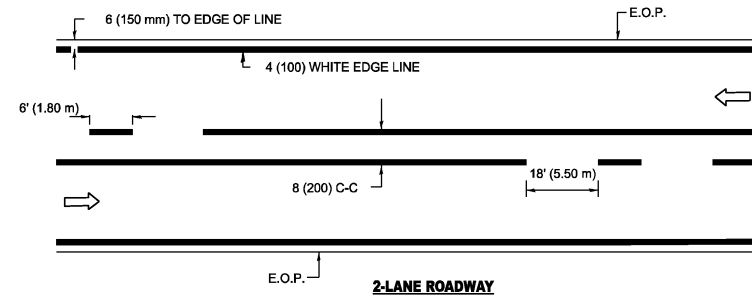
USER NAME = jammal.aramahi	DESIGNED -	REVISED - R. MIRS 09-15-97
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	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/20/2026	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

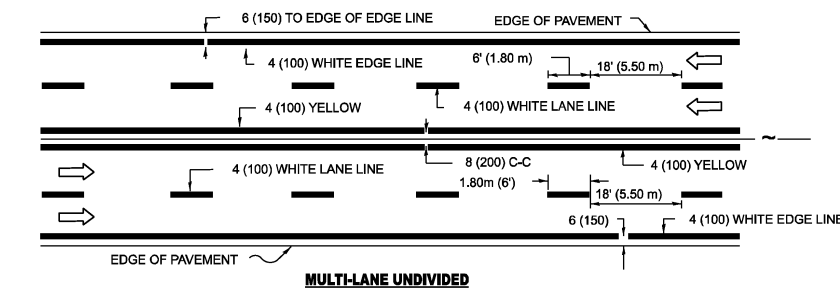
**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET 10 OF 22 SHEETS STA. TO STA.

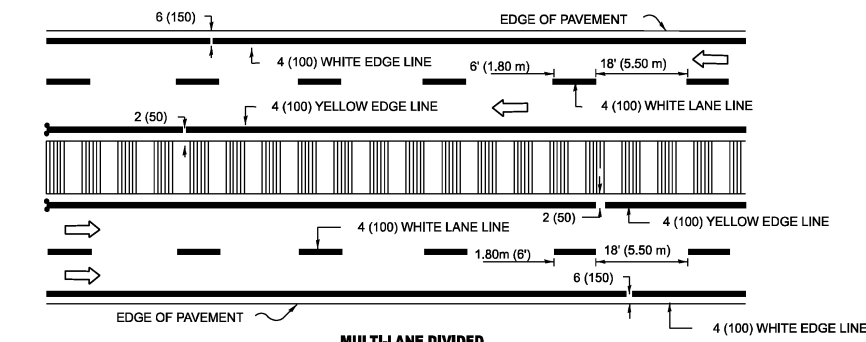
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	51
<b>TC-22</b>			CONTRACT NO. 80B35	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**



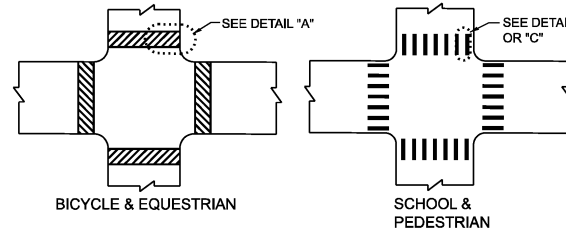
**MULTI-LANE UNDIVIDED**



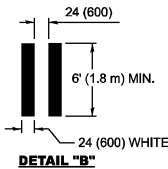
**MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN**

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

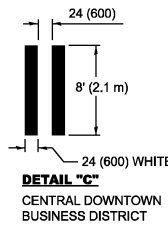
**TYPICAL LANE AND EDGE LINE MARKING**



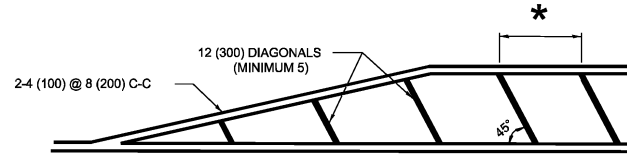
**TYPICAL CROSSWALK MARKING**



**DETAIL "B"**

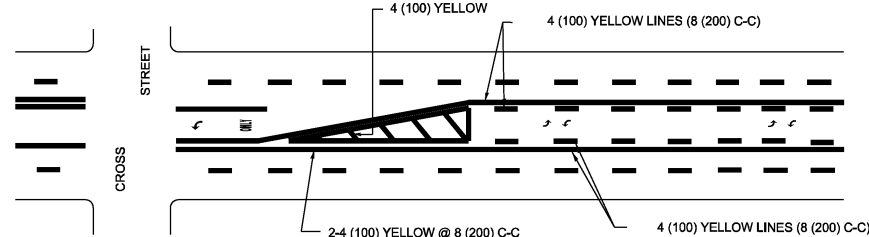


**DETAIL "C"**  
CENTRAL DOWNTOWN BUSINESS DISTRICT

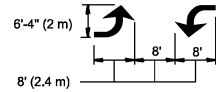


- \* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
- \* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

**PAINTED MEDIANS**

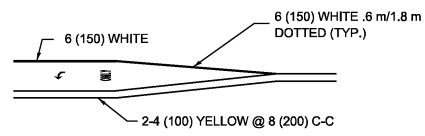


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

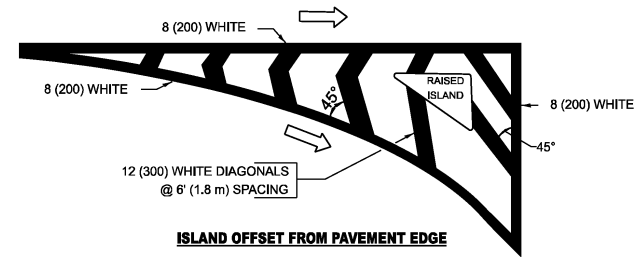
**TYPICAL PAINTED MEDIAN MARKING**



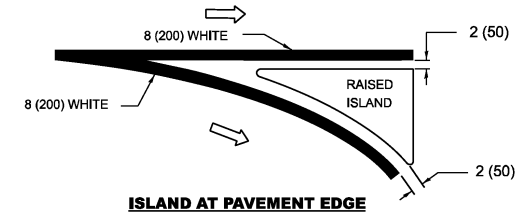
**TYPICAL LEFT (OR RIGHT) TURN LANE**

- FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
- AREA = 15.8 SQ. FT. (1.47 m<sup>2</sup>) ONLY AREA = 22.9 SQ. FT. (2.13 m<sup>2</sup>)
- \* 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 TURN LANE MARKING**



**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) 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: 20' (6.1 m) (LESS THAN 30 MPH (50 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 AREA OF: "R"=3.6 SQ. FT. (0.33m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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

MODEL: TC-24 (01) [Sheet]  
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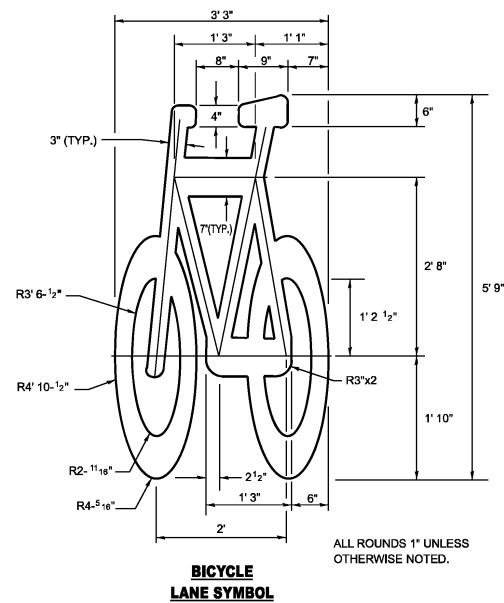
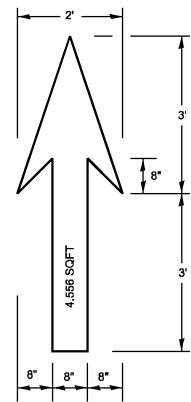
USER NAME = jammal.aramahi	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
	DRAWN -	REVISED - K. ENG 02-28-12
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	52
<b>TC-24</b>		CONTRACT NO. 80B35		
ILLINOIS		FED. AID PROJECT		



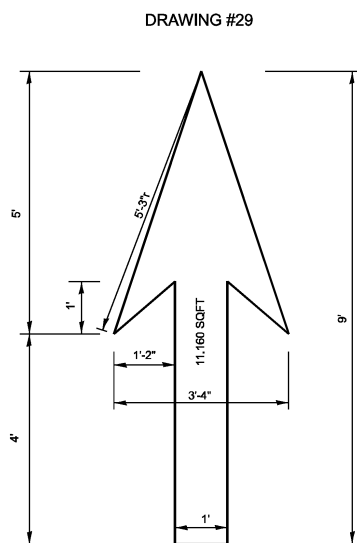
ALL ROUNDS 1" UNLESS OTHERWISE NOTED.

**BICYCLE LANE SYMBOL**

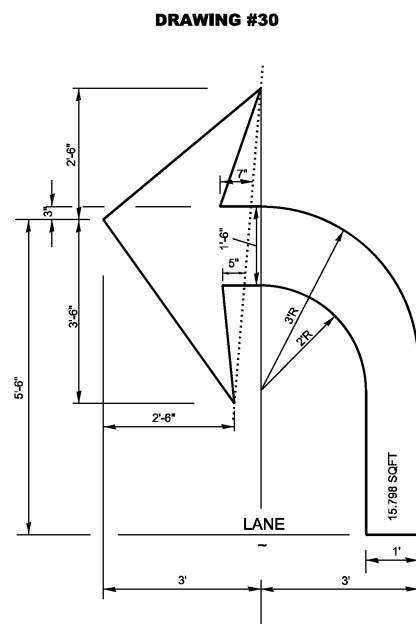
**NOTE:**

- FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

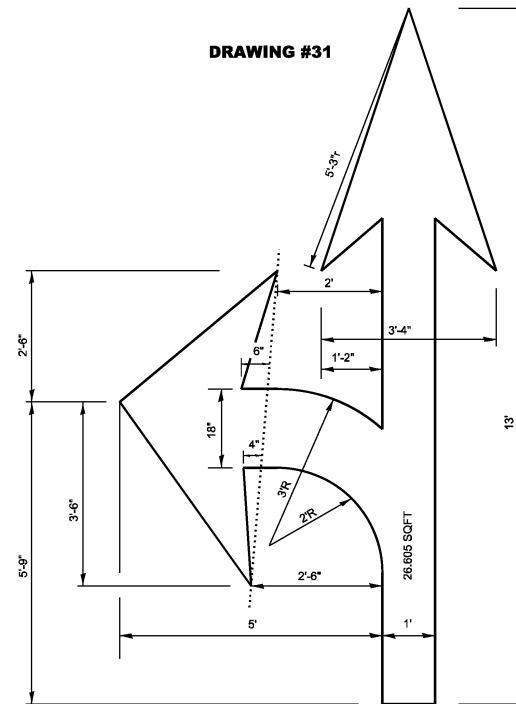
**TYPICAL BIKE LANE SYMBOLS**  
DRAWING #28



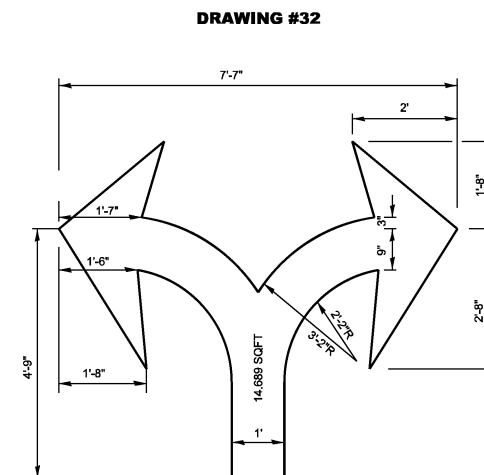
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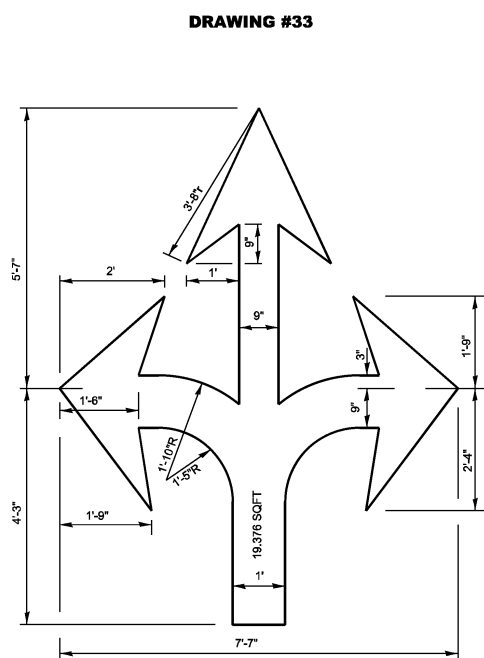
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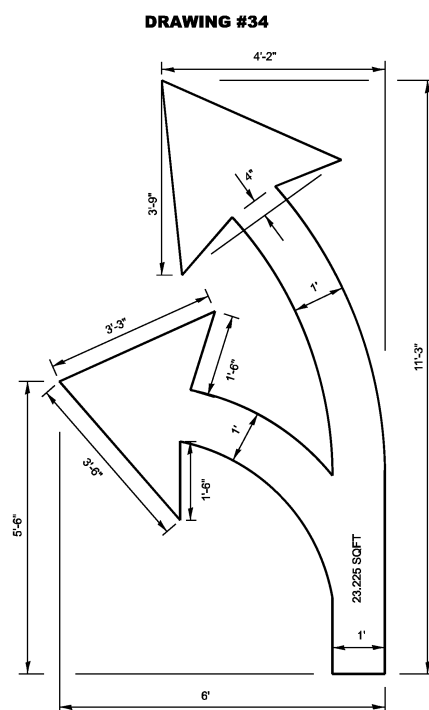
**DRAWING #31**



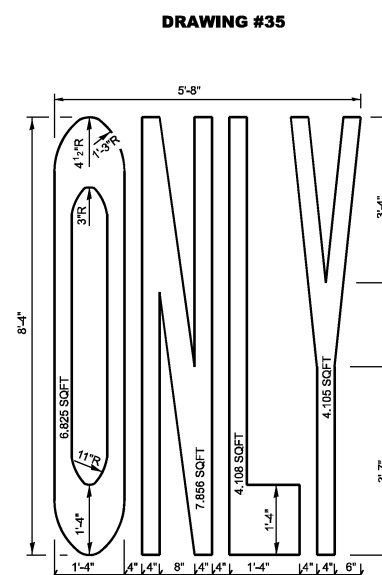
**DRAWING #32**



**DRAWING #33**



**DRAWING #34**



**DRAWING #35**

**NOTE:**

ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

MODEL: TC-24 (02) (Sheet)  
FILE NAME: c:\pwworkspace\jammal.aramahi\1130262\119725-sht-DistShts.dgn

USER NAME = jammal.aramahi	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

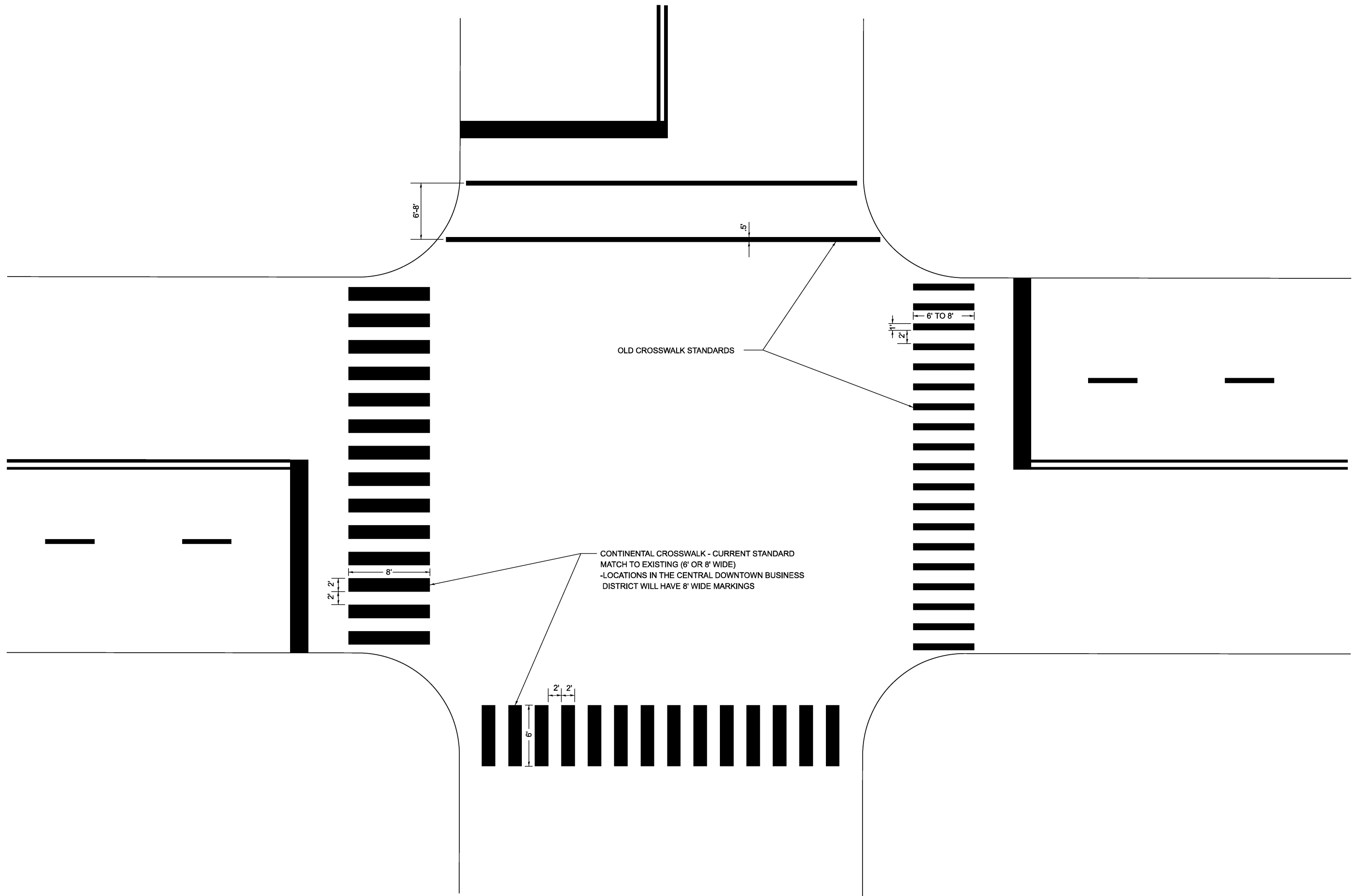
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO**  
**TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	53
<b>TC-24</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				

MODEL: TC-24 (03) (Sheet)  
 FILE NAME: c:\pw\_work\kvd\otl\jammal.aramahi@illinois.gov\1130262\119725-sht-DistStds.dgn



OLD CROSSWALK STANDARDS

CONTINENTAL CROSSWALK - CURRENT STANDARD  
 MATCH TO EXISTING (6' OR 8' WIDE)  
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS  
 DISTRICT WILL HAVE 8' WIDE MARKINGS

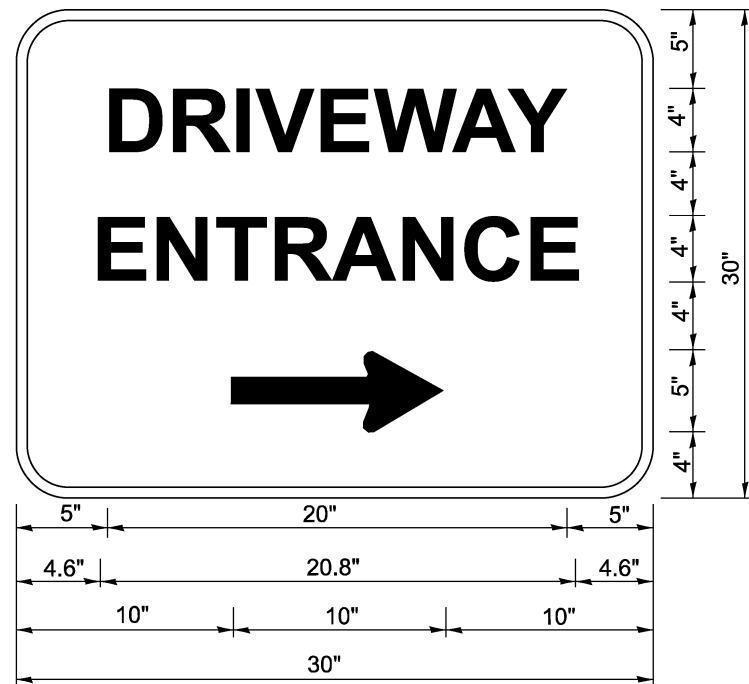
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO  
 TYPICAL PAVEMENT MARKINGS**

USER NAME = jammal.aramahi	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	54
<b>TC-24</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				



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".

MODEL: TC-26  
 FILE NAME: c:\p\work\wiscot\jammal.aramahi@illinois.gov\1130262\119725-shr-DistSigs.dgn

USER NAME = jammal.aramahi	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

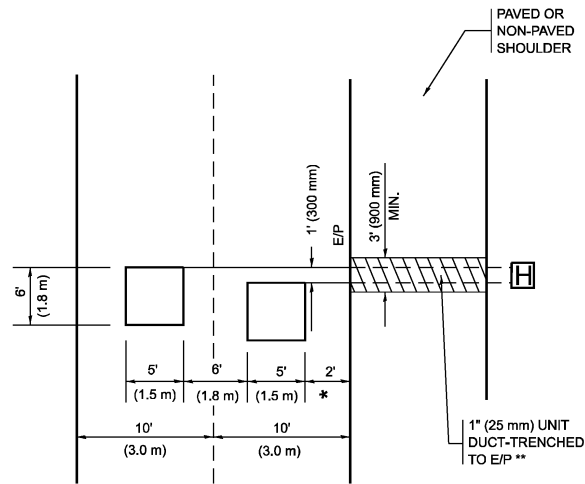
**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE SHEET 11 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	55
<b>TC-26</b>			CONTRACT NO. 80B35	
ILLINOIS FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



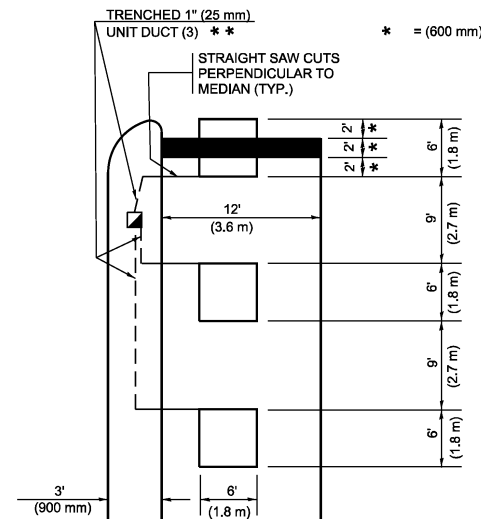
\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS**

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



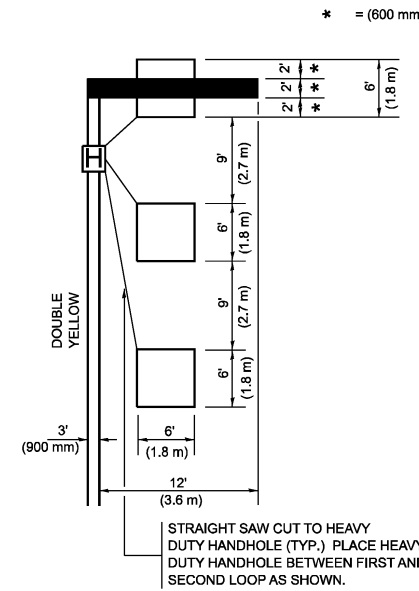
\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS**

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)



\* = (600 mm)

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**NOTES:**

**VEHICLES LOOP DETECTORS**

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**PLACEMENT OF DETECTORS**

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

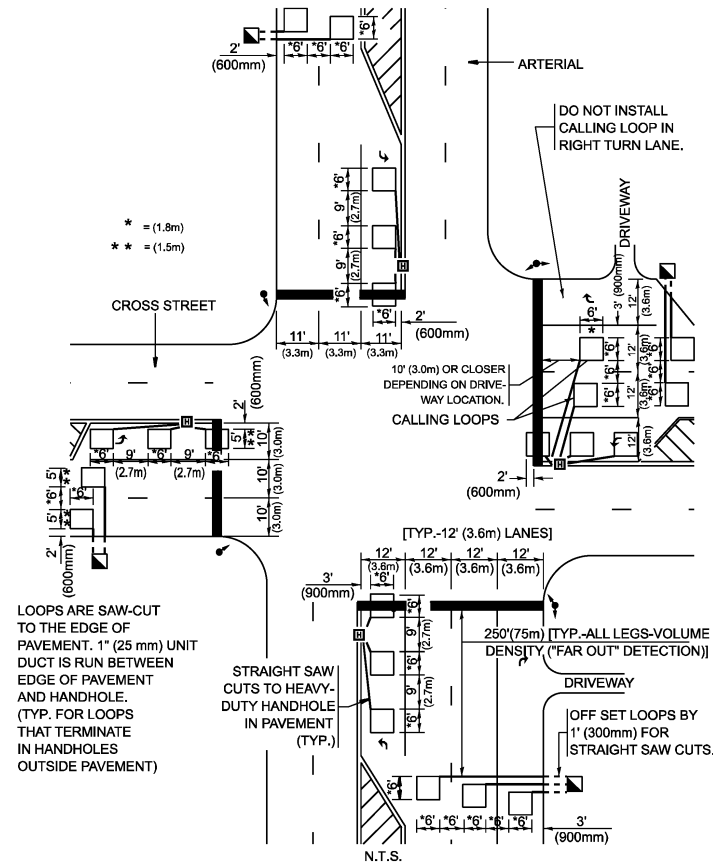
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

**NOTE:**

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)**



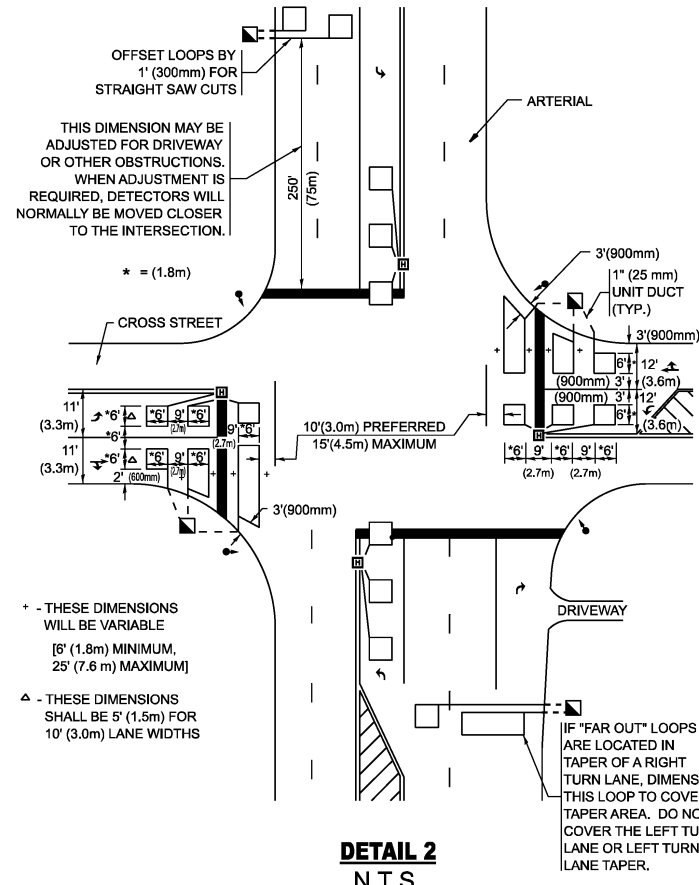
\* = (1.8m)  
\*\* = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

**DETAIL 1**  
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



OFFSET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS  
THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

\* - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]  
△ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

**DETAIL 2**  
N.T.S.

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

**DISTRICT 1 - DETECTOR LOOP INSTALLATION**  
**DETAILS FOR ROADWAY RESURFACING**

USER NAME = jammal.aramahi	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED - R.K.F.	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

SCALE: NONE SHEET 16 OF 22 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	56
<b>TS-07</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

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

MODEL: TS-11 (Sheet)  
FILE NAME: c:\p\work\wv\130262\119725-shd-DistSigs.dgn

USER NAME = jammal.alramahi	DESIGNED - IP	REVISED -
	DRAWN - IP	REVISED -
	CHECKED - NBKK	REVISED -
PLOT DATE = 3/20/2026	DATE - 10/15/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

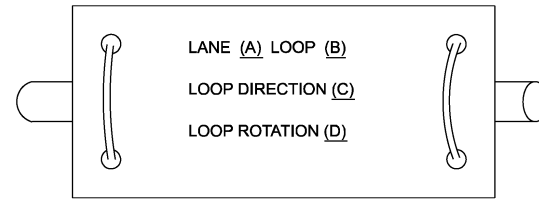
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE    SHEET 1 OF 7 SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	57
<b>TS-01</b>		CONTRACT NO. 80B35		
ILLINOIS   FED. AID PROJECT				

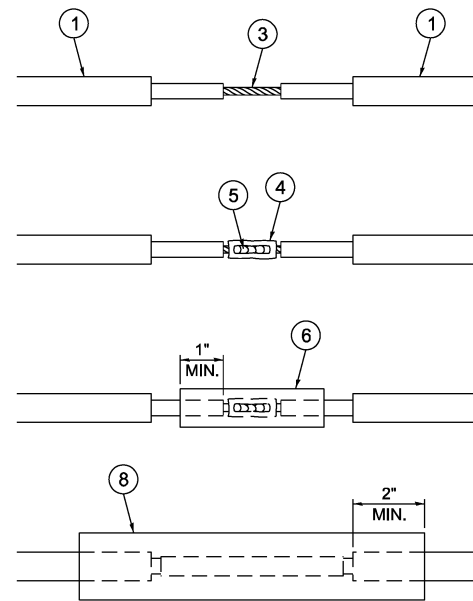
**DETECTOR LOOP NOTES:**

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.



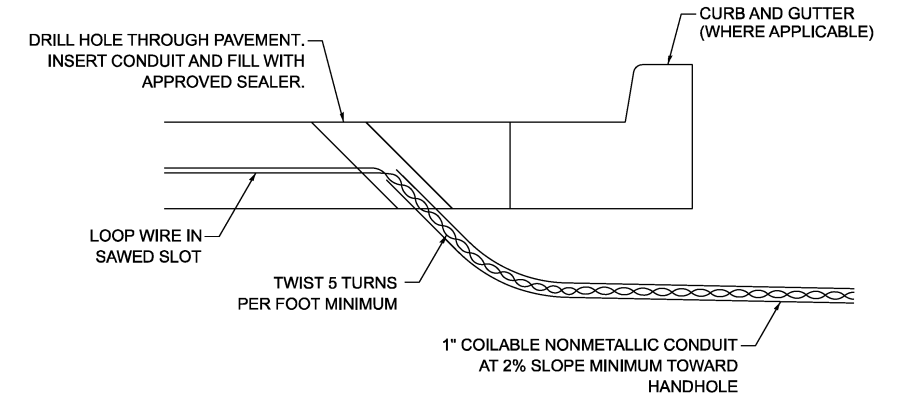
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY.
- B. LOOP #1 IS THE LOOP CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

**DETECTOR LOOP LEAD-IN CABLE TAG**

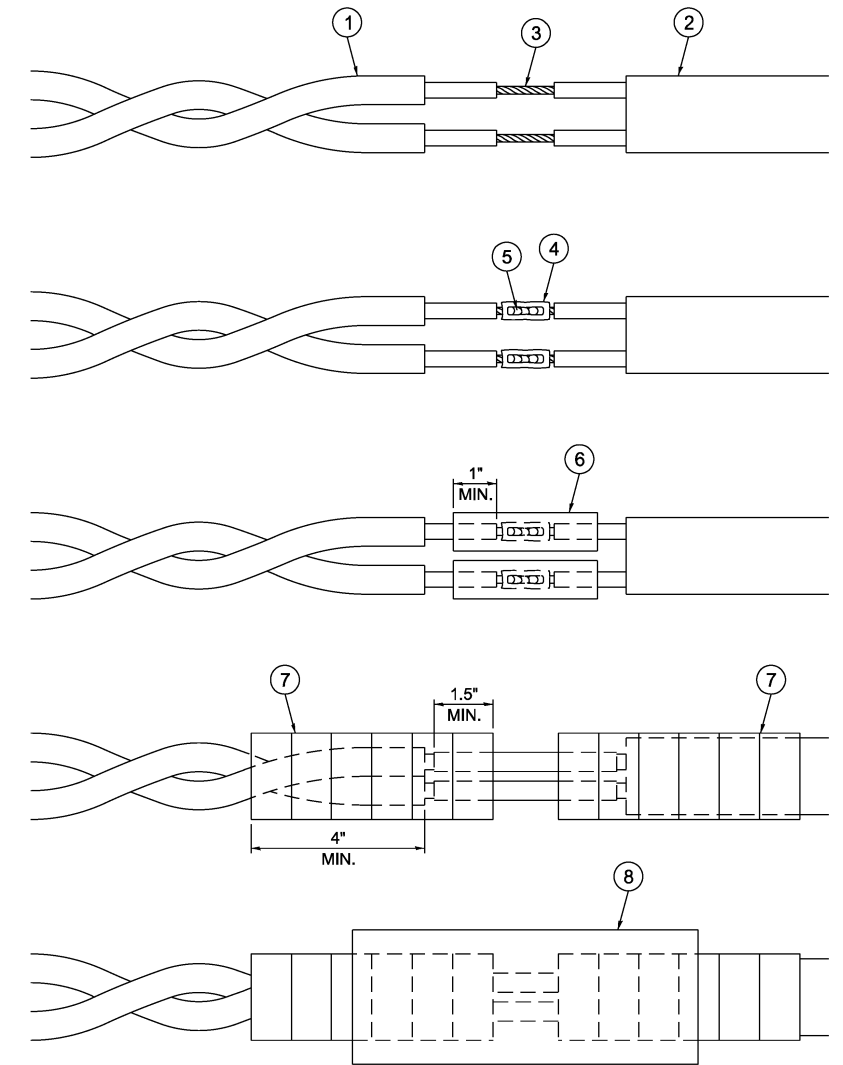


**LOOP-TO-LOOP SPLICE DETAIL**

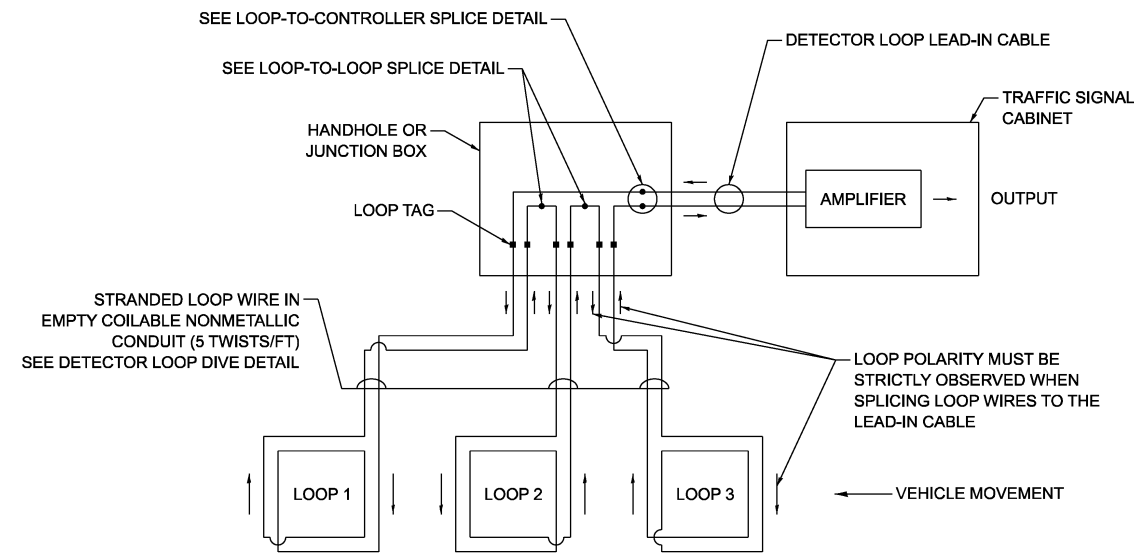
- 1 DETECTOR LOOP CABLE.
- 2 DETECTOR LOOP LEAD-IN CABLE
- 3 BARE CONDUCTORS TWISTED TOGETHER.
- 4 BUTT SPLICE CRIMP CONNECTOR.
- 5 SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE SPLICES SHALL BE STAGGERED.
- 6 WCSMW 30/100 HEAT SHRINK TUBE, 3" MINIMUM LENGTH, 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**



**DETECTOR LOOP WIRING SCHEMATIC**

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PLOT DATE = 3/20/2026	DATE - 10/15/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

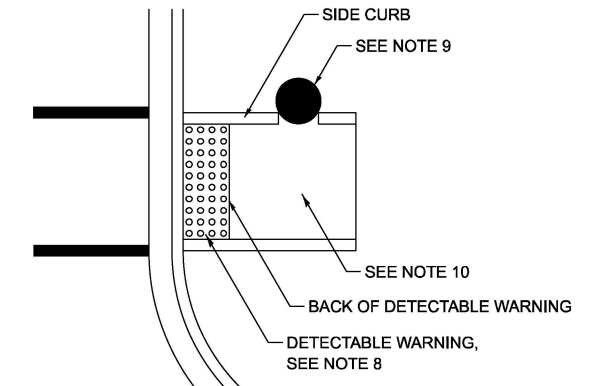
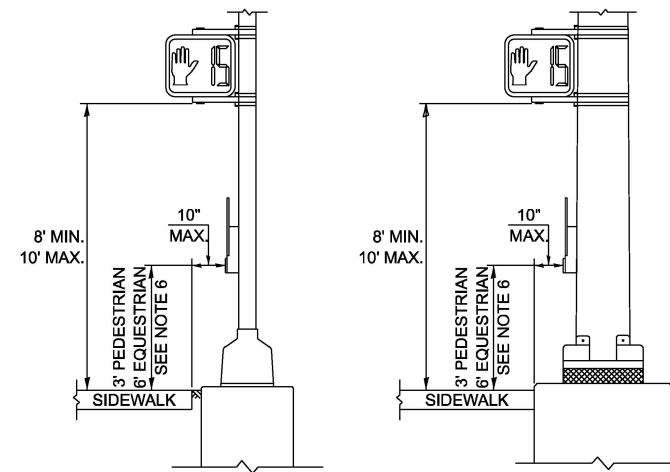
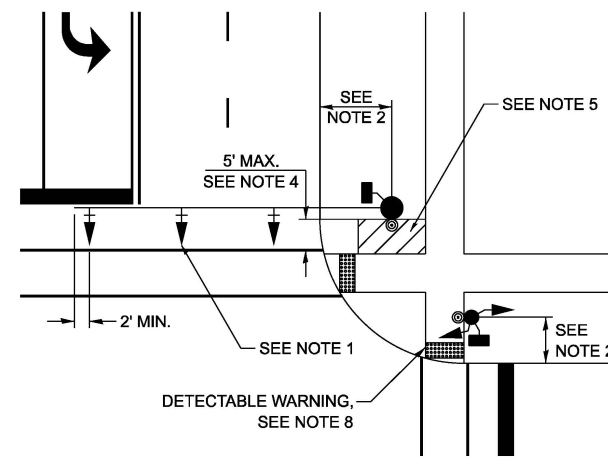
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	58
<b>TS-01</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				

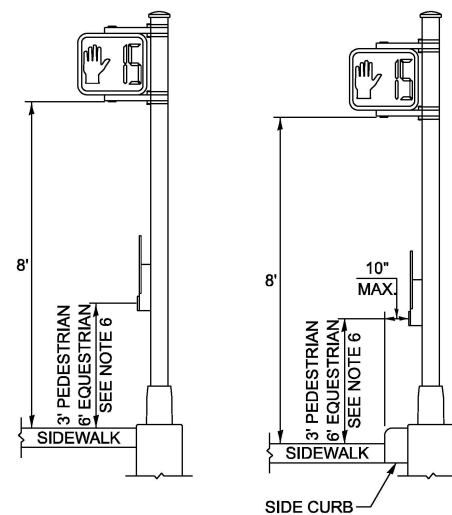
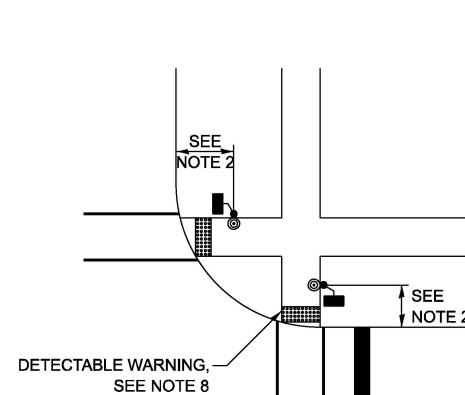
**NOTES:**

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 SHALL 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.

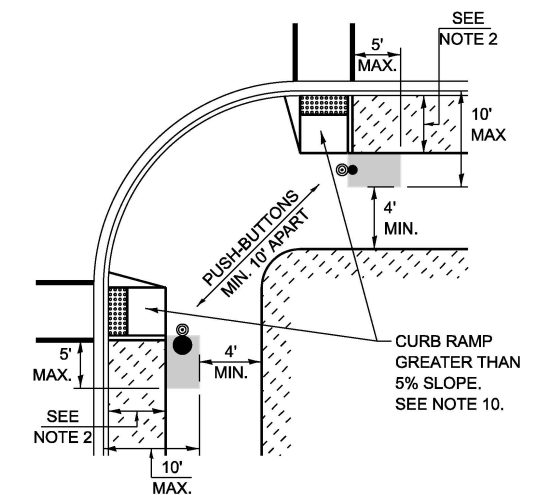
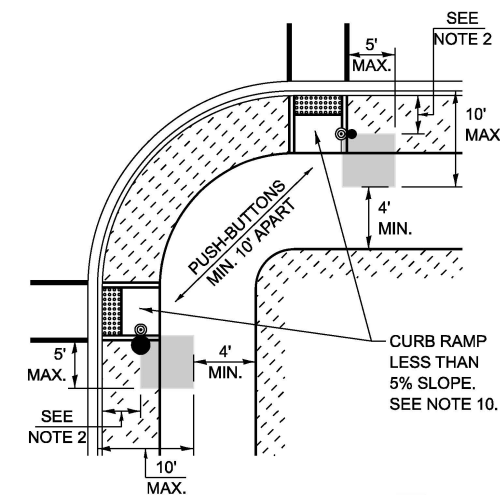
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**



**PEDESTRIAN SIGNAL POST**



**PUSH-BUTTON LOCATIONS**



■ PREFERRED PUSH-BUTTON LOCATION

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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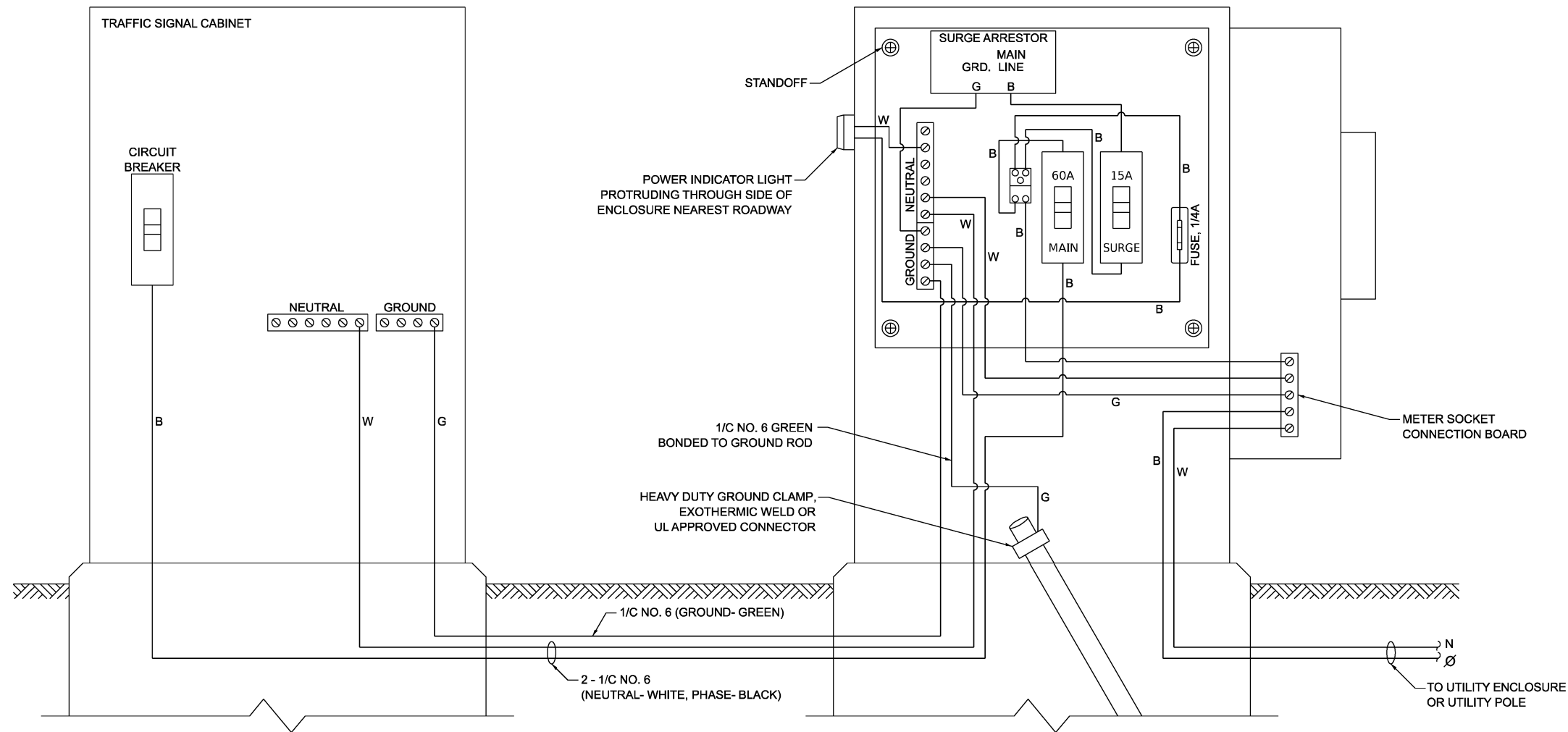
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PLOT DATE = 3/20/2026	DATE - 10/15/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

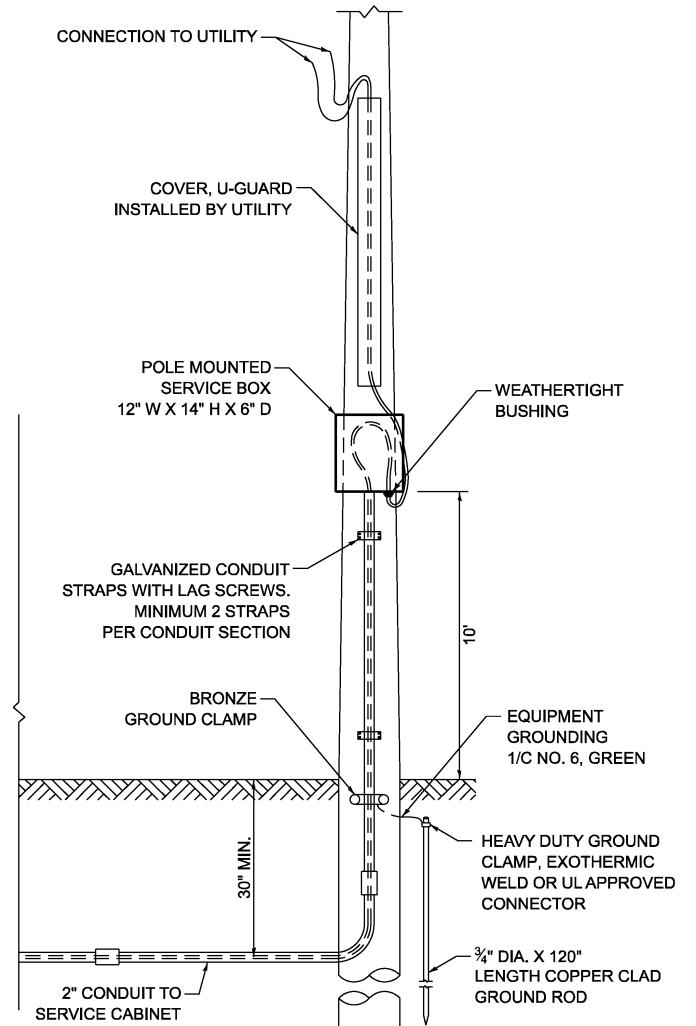
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	59
<b>TS-01</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				



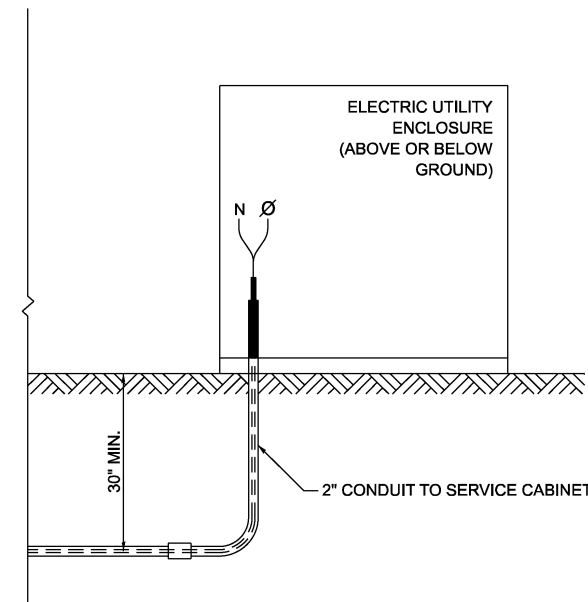
**ELECTRIC SERVICE WIRING DIAGRAM IN GROUND MOUNTED SERVICE CABINET**

**NOTES:**

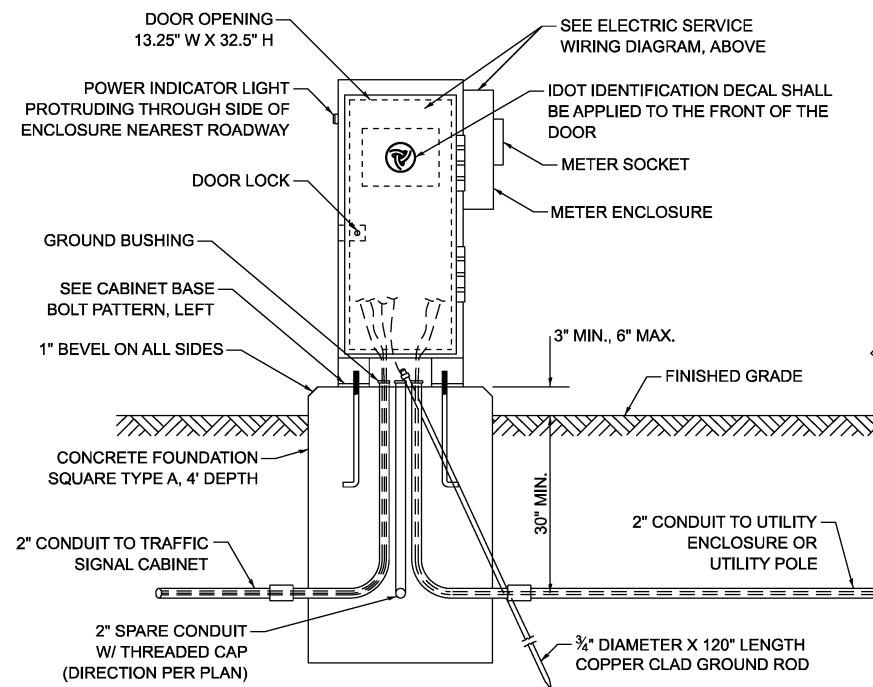
1. THE GROUND MOUNTED SERVICE CABINET IS TO BE LOCATED BETWEEN THE TRAFFIC SIGNAL CABINET AND THE UTILITY CONNECTION, PREFERABLY 20' TO 50' FROM THE TRAFFIC SIGNAL CONTROLLER CABINET.
2. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO UL STD. 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE UL LABEL.
3. 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.



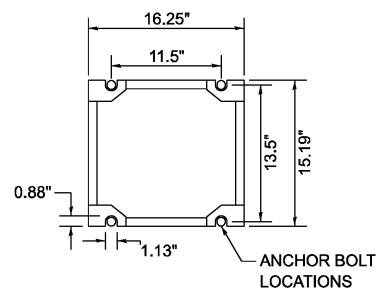
**CONNECTION TO UTILITY POLE**



**CONNECTION TO UTILITY ENCLOSURE**



**SERVICE INSTALLATION - GROUND MOUNTED WITH METER**



**CABINET BASE BOLT PATTERN**

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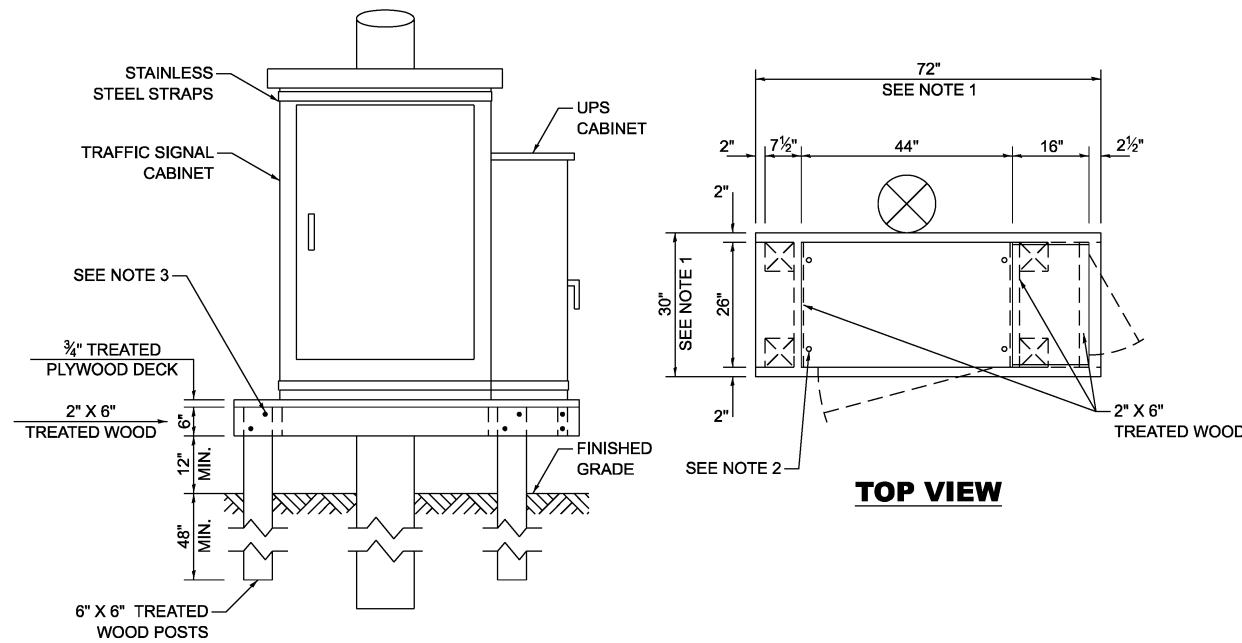
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.P. RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 60
<b>TS-01</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. THE PLATFORM SIZE IS BASED ON A TRAFFIC SIGNAL CABINET TYPE IV WITH BASE DIMENSIONS OF 26" X 44" AND UNINTERRUPTIBLE 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.

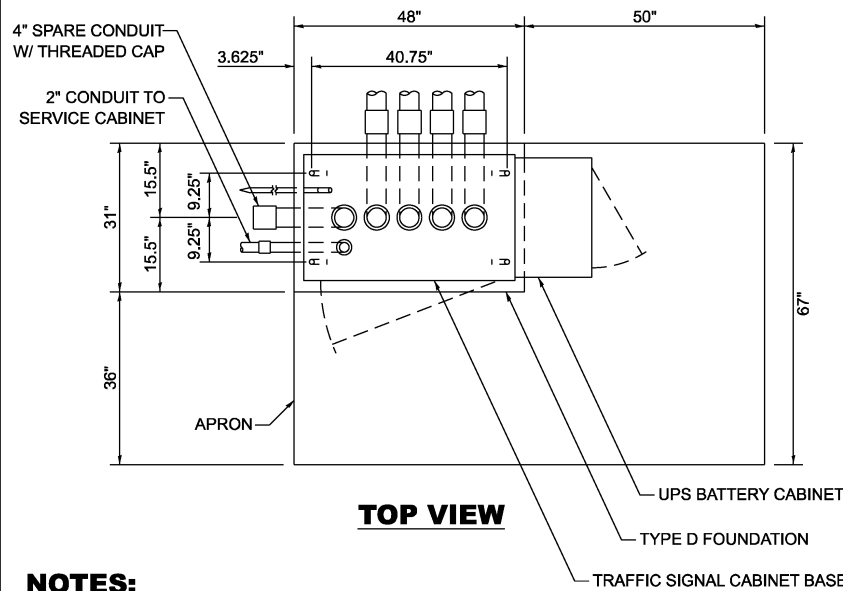
**TEMPORARY TRAFFIC SIGNAL CABINET WOOD SUPPORT PLATFORM**

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**

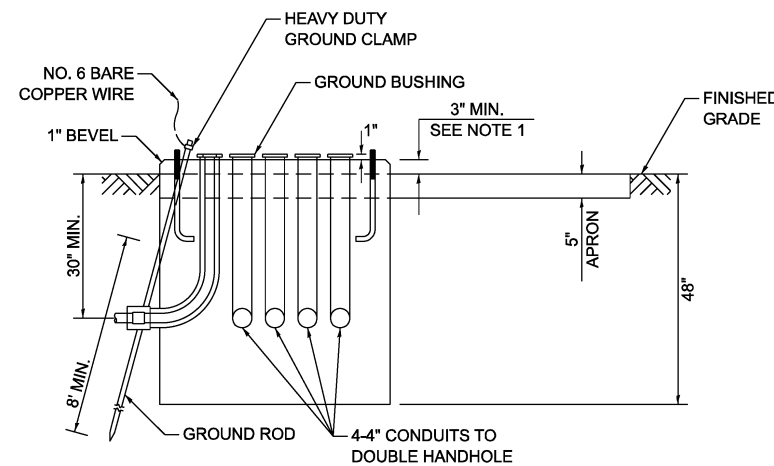
**TYPE E FOUNDATION NOTES:**

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.

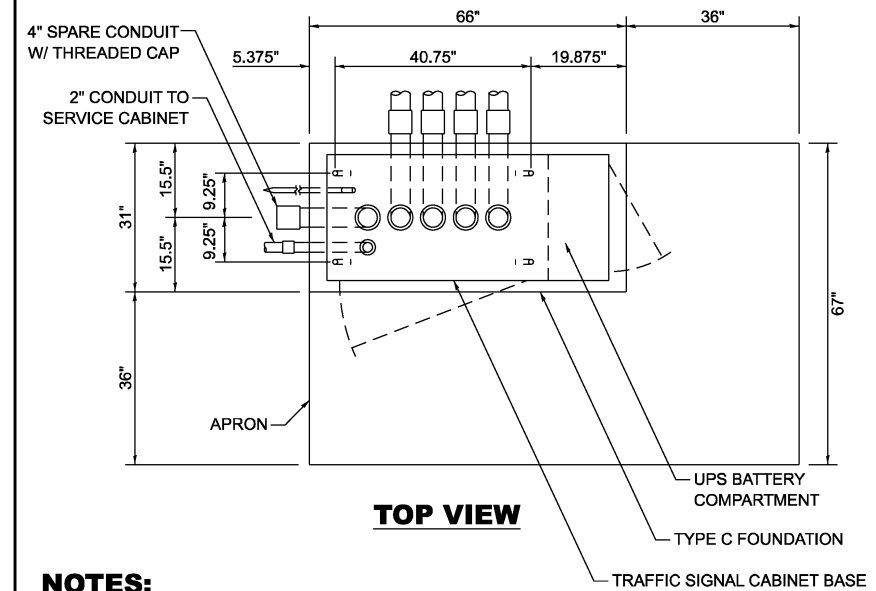


**NOTES:**

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

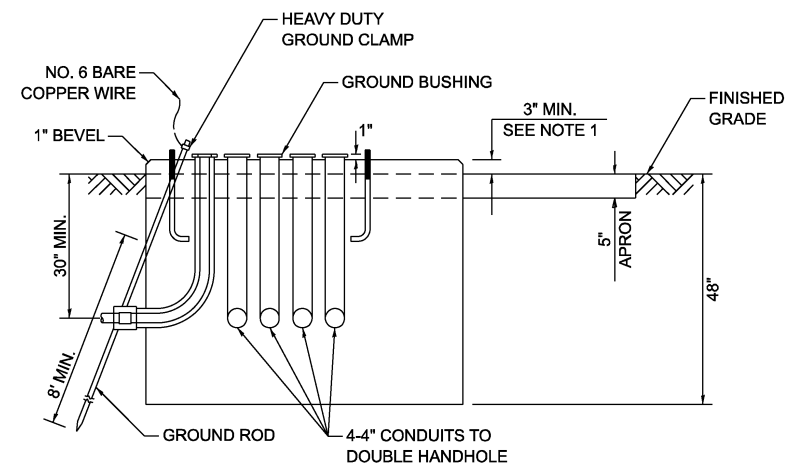


**TYPE D FOUNDATION TYPE IV AND TYPE V TRAFFIC SIGNAL CABINET AND UPS BATTERY CABINET**



**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**

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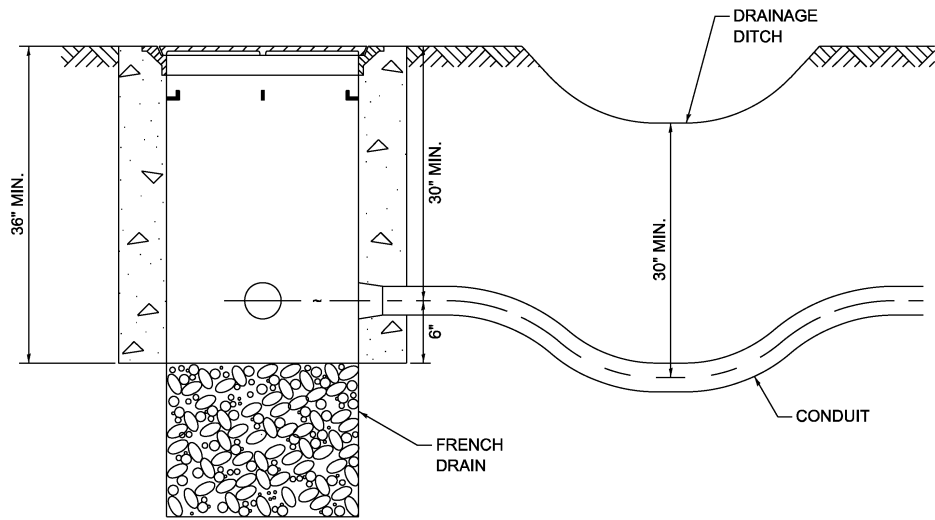
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PLOT DATE = 3/20/2026	DATE - 10/15/2025	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

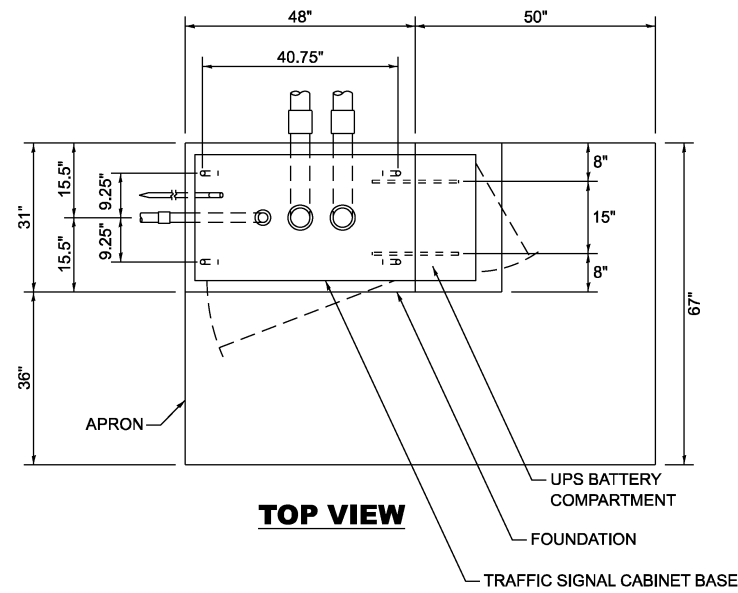
F.A.P RTE. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 61
<b>TS-01</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				



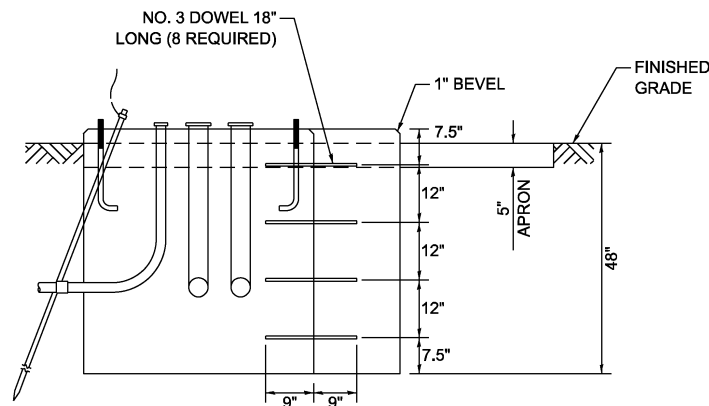
**NOTES:**

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.

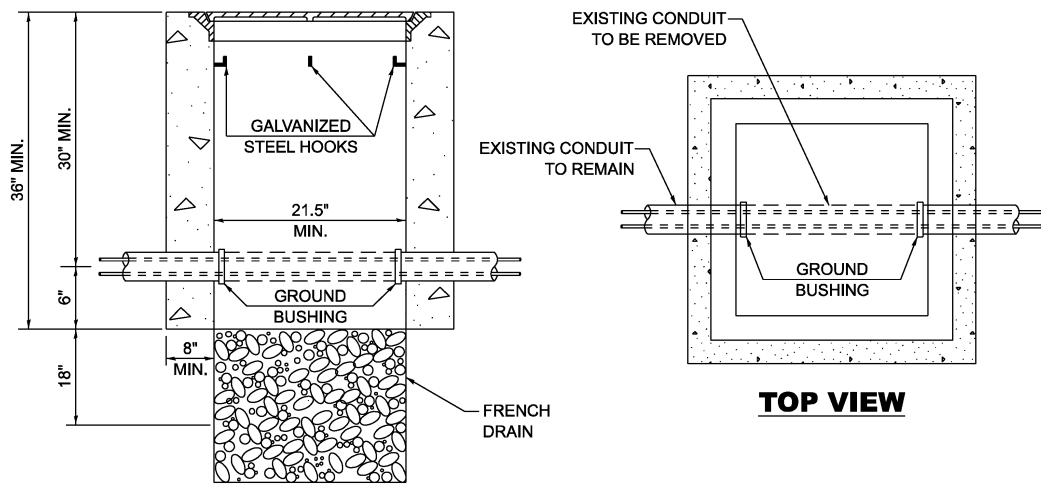
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**



**TOP VIEW**



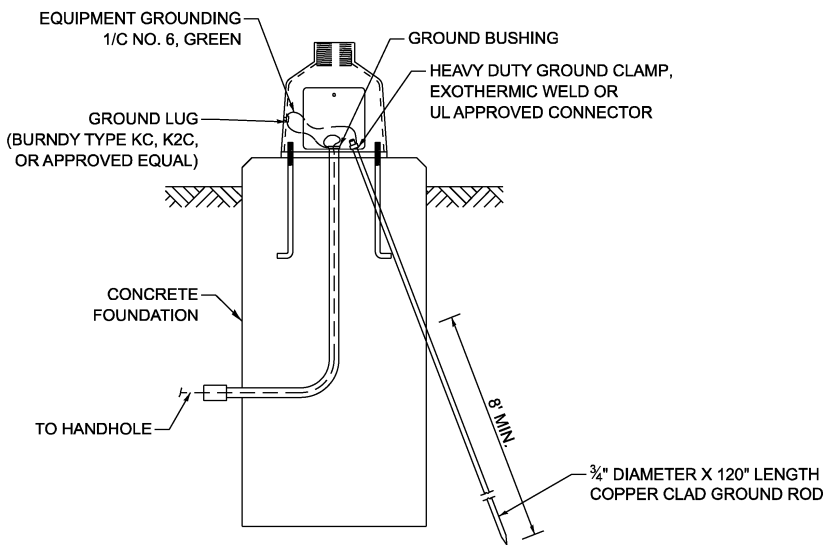
**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**



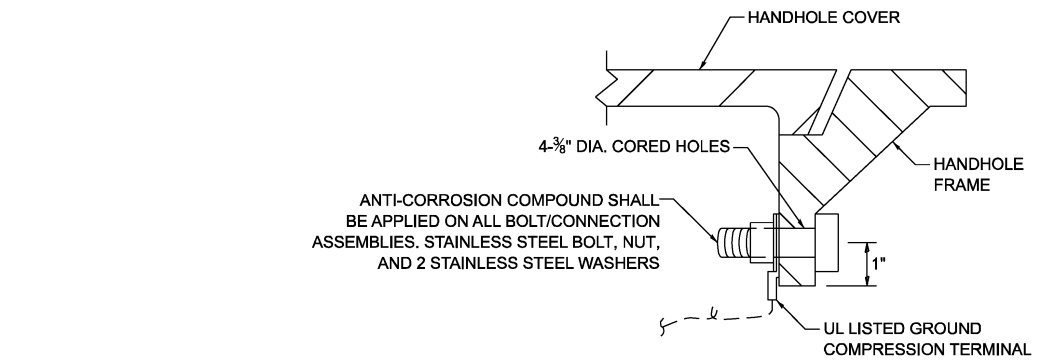
**NOTES:**

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

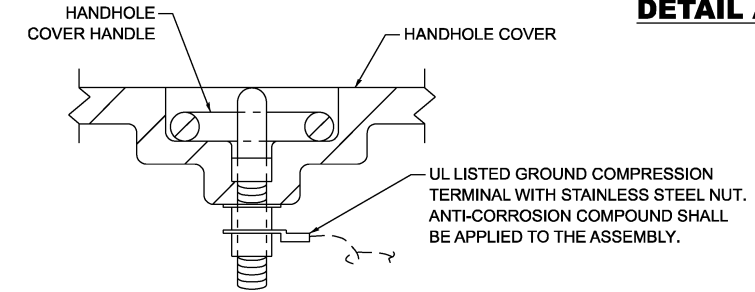
**HANDHOLE TO INTERCEPT EXISTING CONDUIT**



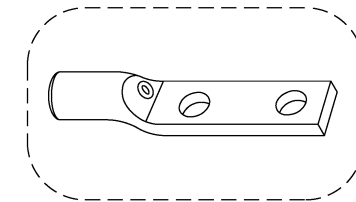
**MAST ARM / POST GROUNDING DETAIL**



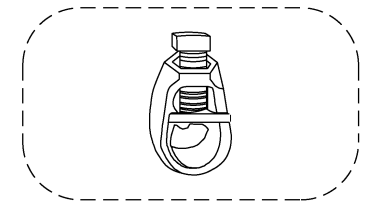
**DETAIL A**



**DETAIL B**



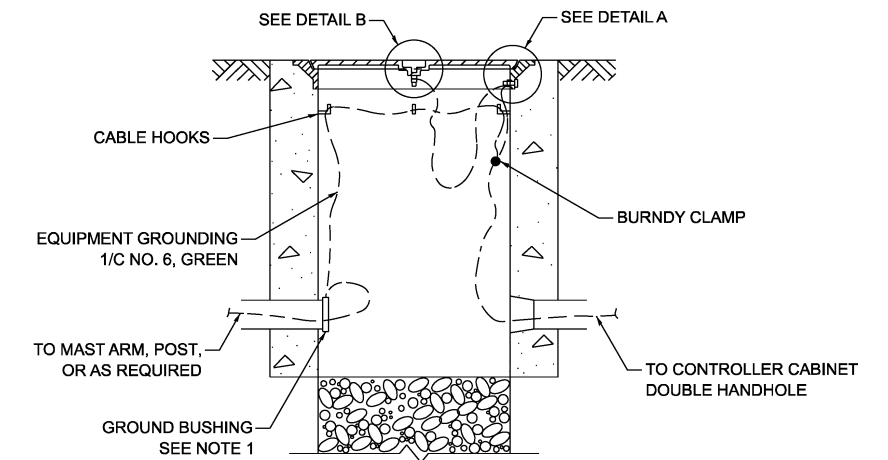
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" HEAVY-DUTY GROUND ROD CLAMP BRONZE OR COPPER, UL APPROVED (BURNDY TYPE GRC OR APPROVED EQUAL)

**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 LOOPEO 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**

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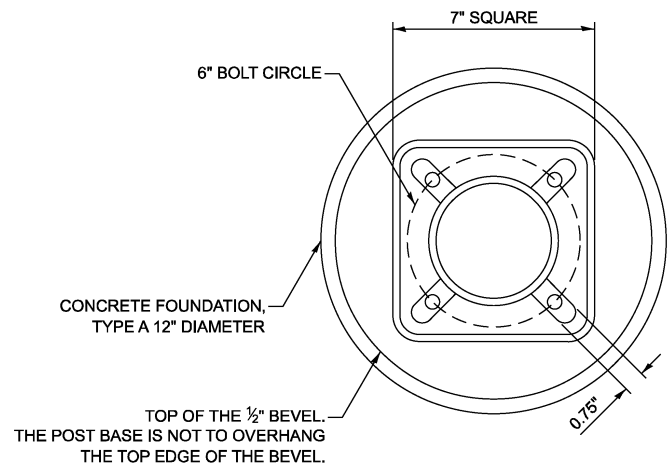
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PLOT DATE = 3/20/2026	DATE - 10/15/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

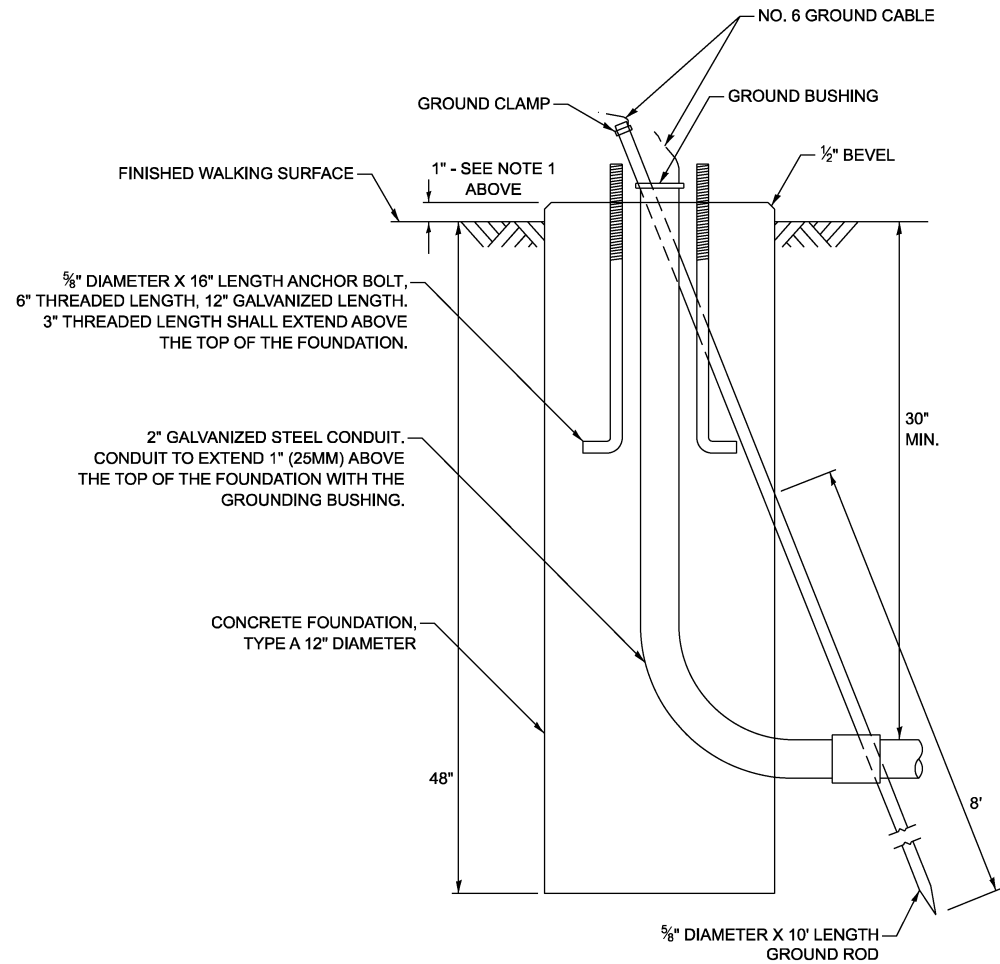
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2025-2003-RS	COOK	63	62
<b>TS-01</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				



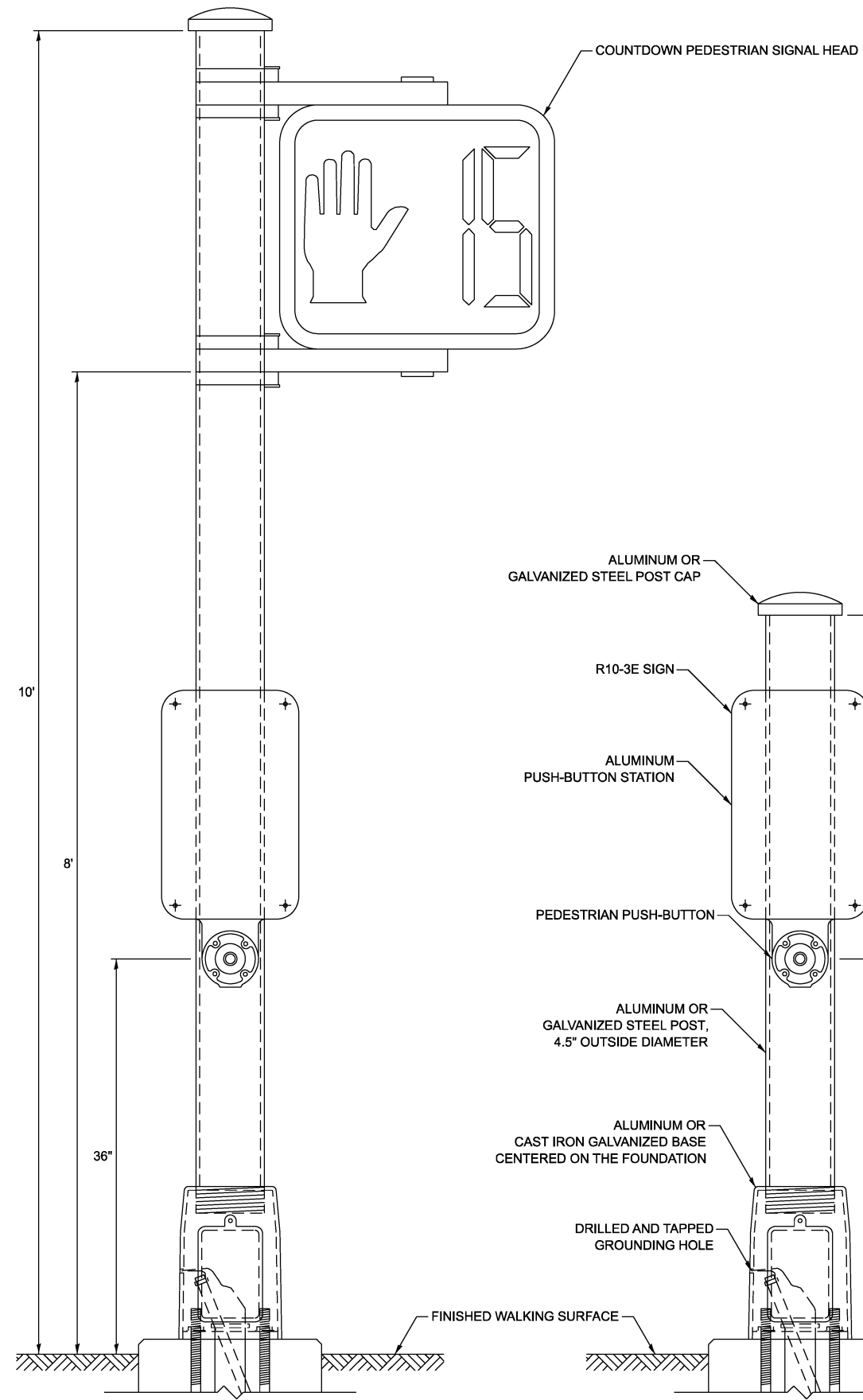
**BOLT PATTERN**

**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.

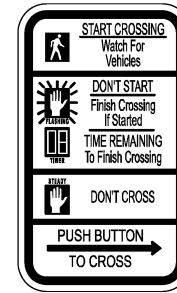


**CONCRETE FOUNDATION,  
TYPE A 12-INCH DIAMETER**



**PEDESTRIAN SIGNAL POST, 10 FT.**

**PEDESTRIAN SIGNAL POST, 5 FT.**



R10-3E  
9" X 15"



W10-101  
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 W10-101 IS REQUIRED FOR EACH PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS.

MODEL: TS (11-8) (Sheet)  
FILE NAME: c:\pwworking\ajamali\alramahi\illinois.gov\1130262\119725-sht-DistSigs.dgn

USER NAME = jamal.alramahi	DESIGNED - IP	REVISED -
	DRAWN - IP	REVISED -
	CHECKED - NB/KK	REVISED -
PLOT DATE = 3/20/2026	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. 372	SECTION 2025-2003-RS	COUNTY COOK	TOTAL SHEETS 63	SHEET NO. 63
<b>TS-01</b>		CONTRACT NO. 80B35		
ILLINOIS FED. AID PROJECT				