

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	1
		ILLINOIS	CONTRACT NO. 62T74	

11-17-2023 LETTING ITEM 035

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

FAP ROUTE 338: IL-59 (HOUGH ST)  
LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)  
SECTION: FAP 0338 22 RS2  
PROJECT: NHPP-NGB5(489)  
SMART OVERLAY, ADA IMPROVEMENTS,  
AND CRACK AND JOINT SEALING  
COOK COUNTY  
C-91-292-22

D-91-239-22



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

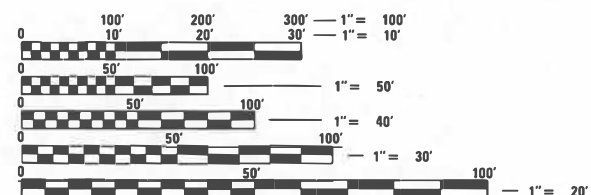
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED  
IN THE VILLAGES OF BARRINGTON  
AND BARRINGTON HILLS

**TRAFFIC DATA:**

IL-59:

PROJECT BEGIN TO PROJECT END:  
ADT (2021) = 18600  
SPEED LIMIT = 35 MPH

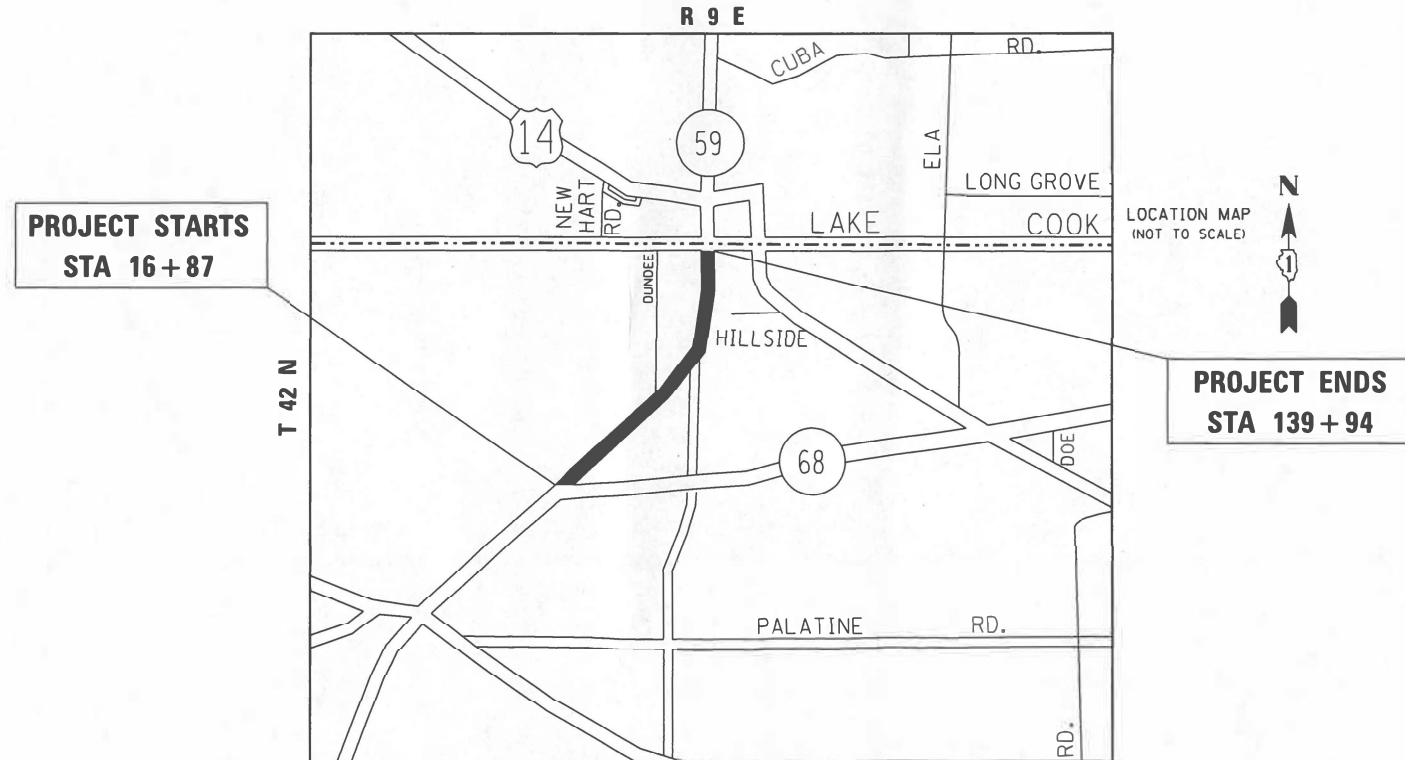


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: DANIEL WILGREEN, P.E. (847) 705-4240  
PROJECT MANAGER: FAWAD AQUEEL, P.E.

CONTRACT NO. 62T74



BARRINGTON TOWNSHIP

GROSS AND NET LENGTH = 12,307 FT = 2.33 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 18, 2023  
Jose Rios (CWS) REGIONAL ENGINEER  
October 13, 2023  
Scott A. Etk  
ENGINEER OF DESIGN AND ENVIRONMENT  
October 13, 2023  
Stephen M. Smith  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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44-49	ADA CURB RAMP DETAILS
50	CRACK & JOINT SEALING DETAIL (PD-11)

## HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
604001-05	FRAMES AND LIDS TYPE 1
701011-04	OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-07	LANE CLOSURE 2L, 2W WORK IN SERIES, FOR SPEEDS >=45 MPH
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

10. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT AS WELL AS SEEDING AND PERMIETER EROSION BARRIER WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER
11. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
13. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
14. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
15. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
16. TEMPORARY PAVEMENT MARKING, TYPE III TAPE SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
17. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
18. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
19. ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO DEPARTMENT.
20. ALL CRACK ROUTING & CRACK SEALING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. CRACK ROUTING SHALL BE OMITTED WHERE VEHICLE DETECTOR LOOPS & RAISED REFLECTIVE PAVEMENT MARKERS ARE PRESENT IN THE PAVEMENT.
21. MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN THE EXISTING PAVEMENT MAY BE PLACED, SHAPED AND COMPACTED TO THE SATISFACTION OF THE ENGINEER ALONG EXISTING AGGREGATE SHOULDERS ADJACENT TO THE PAVEMENT. ALL MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN PAVEMENTS WITHOUT AGGREGATE SHOULDERS AND SURPLUS MATERIALS RESULTING FROM THE ROUTING OF CRACKS IN PAVEMENTS WITH AGGREGATE SHOULDERS, WHERE ALL MATERIALS ARE NOT PLACED ALONG EXISTING AGGREGATE SHOULDERS, SHALL BE DISPOSED OF AS SPECIFIED IN ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
22. MODIFIED URETHANE PAVEMENT MARKING SHALL BE PLACED IMMEDIATELY AFTER C & J SEALER TEMPERATURE HAS COOLED DOWN AND DOES NOT AFFECT THE APPLICATION OF THE MODIFIED URETHANE PAVEMENT MARKING.
23. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATION, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
24. THE RE SHALL NOTIFY THE ROADSIDE DEVELOPMENT UNIT A MINIMUM OF TEN DAYS IN ADVANCE OF TREE PRUNING OPERATIONS AT (847) 705-4171

## GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF BARRINGTON AND BARRINGTON HILLS
3. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KAPLANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
4. THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, FADI SULTAN AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
7. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
8. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER
9. ALL FINAL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

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USER NAME = Fabian,Rangel	DESIGNED -	REVISED - FR - 10/11/23
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/11/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES  
IL-59 FROM LAKE-COOK RD/MAIN ST TO IL-68 (DUNDEE RD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	2
CONTRACT NO. 62T74				
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005			
20200100	EARTH EXCAVATION	CU YD	54	54					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	215	215					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2.7	2.7					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2.7	2.7					
25200110	SODDING, SALT TOLERANT	SO YD	315	315					
25200200	SUPPLEMENTAL WATERING	UNIT	2.2	2.2					
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	30	30					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8993	8993					
40600370	LONGITUDINAL JOINT SEALANT	FOOT	4800	4800					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	30	30					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	271	271					
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	11	11					
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	1679	1679					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005			
42001300	PROTECTIVE COAT	SO YD	390	390					
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	30	30					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	30	30					
42400800	DETECTABLE WARNINGS	SO FT	250	250					
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	19983	19983					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	90	90					
44000600	SIDEWALK REMOVAL	SO FT	3200	3200					
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	380	380					
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	300	300					
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YD	400	400					
45100100	CRACK ROUTING (PAVEMENT)	FOOT	27900	27900					
45100200	CRACK FILLING	POUND	7970	7970					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	10	10					
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	7	7					
* SPECIALTY ITEM									

FILE NAME =	USER NAME = FoblarRangel	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD) SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\N\dot-pw\benley.com\PI\DOT\Documents\DOT	Files\Distric\N\Projects\DI23922\CADD\Design\DI23922-st	DRAWN -	REVISED -			338	FAP 0338 22 RS2	COOK	50	3	
	PLOT SCALE = 100,0000' / 1in	CHECKED -	REVISED -			CONTRACT NO. 62174					
	PLOT DATE = 8/25/2023	DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005			
60262700	INLETS TO BE RECONSTRUCTED	EACH	5	5					
60266600	VALVE BOXES TO BE ADJUSTED	EACH	8	8					
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	30	30					
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5	5					
60404950	FRAMES AND GRATES, TYPE 24	EACH	6	6					
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	6	6					
60406001	FRAMES AND LIDS, TYPE 1, ADA COMPLIANT, OPEN LID	EACH	1	1					
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	14	14					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	54	54					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4					
* 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					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005			
67100100	MOBILIZATION	L SUM	1	0.5	0.5				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5				
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.5	0.5				
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	0.5	0.5				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2800	2800					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1600	1600					

\* SPECIALTY ITEM

FILE NAME =	USER NAME = FabianRangel	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD) SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\N\dot-pw\benley.com\PW\DOT\Documents\DOT - Office\Dist\1\Projects\DI23922\CADD\dot\Design\DI23922-st-30\DRAWN	CHECKED -	REVISED -	338			FAP 0338 22 RS2	COOK	50	4	
PLOT SCALE = 100,0000' / 1in	DATE -	REVISED -	CONTRACT NO. 62174							
PLOT DATE = 8/25/2023			FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT							

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				TOTAL QUANTITIES	SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005				CODE NO	ITEM		UNIT	80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	440	440				* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	200	200				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	14100	14100				* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1550	1550				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	2100	2100				* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	370	370				
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	200	200				* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	75	75				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	1550	1550				* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	33800	33800				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	370	370				* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	350	350				
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	1400	1400				* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	400	400				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	440	440				* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	220	220				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	14100	14100				* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	140	140				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2150	2150				* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	280	280				
								78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	280	280				
									REMOVAL						* SPECIALTY ITEM	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005			
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	26	26					
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3					
* 85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	1	1					
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	402	402					
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	281	281					
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1					
* 87900200	DRILL EXISTING HANDHOLE	EACH	2	2					
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2	2					
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2	2					
* 88600100	DETECTOR LOOP, TYPE I	FOOT	389	389					
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1700	1700					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING 0005	80% FED 20% STATE COOK & J SEALING 0005	100% STATE COOK 0005			
* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	84	84					
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	3					
* 89502376	REBUILD EXISTING HANDHOLE	EACH	2	2					
K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	1					
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
X0327611	REMOVE AND REINSTALL BRICK PAVER	SO FT	970	970					
* X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2	2					
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	5	5					
X4240200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH COLORED	SO FT	3200	3200					
X4240800	DETECTABLE WARNINGS (SPECIAL)	SO FT	250	250					
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	250	250					
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1200			1200			

\* SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE									
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK RESURFACING & J SEALING 0005	80% FED 20% STATE COOK 0005	100% STATE COOK 0005					CODE NO	ITEM		UNIT	80% FED 20% STATE COOK RESURFACING & J SEALING 0005	80% FED 20% STATE COOK 0005	100% STATE COOK 0005						
X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	42	42																			
	( SPECIAL )																						
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	9	3																		
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	15	15																			
* X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8	8																			
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	21	21																			
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	60			60																	
* Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	156	104	52																		
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	3	3																			

\* SPECIALTY ITEM

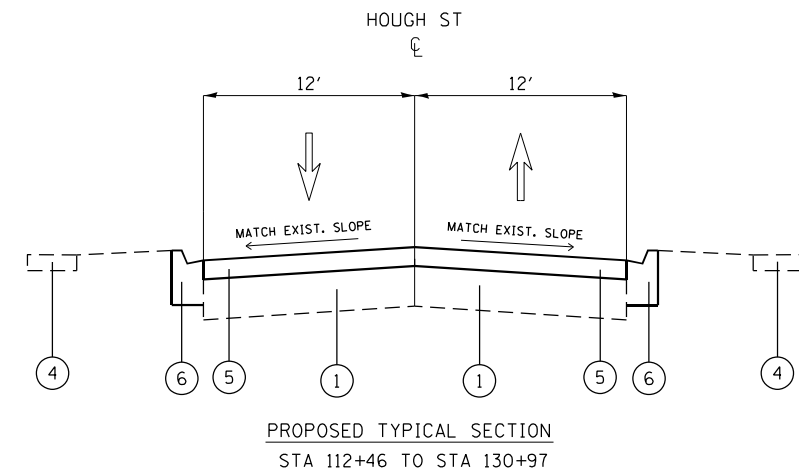
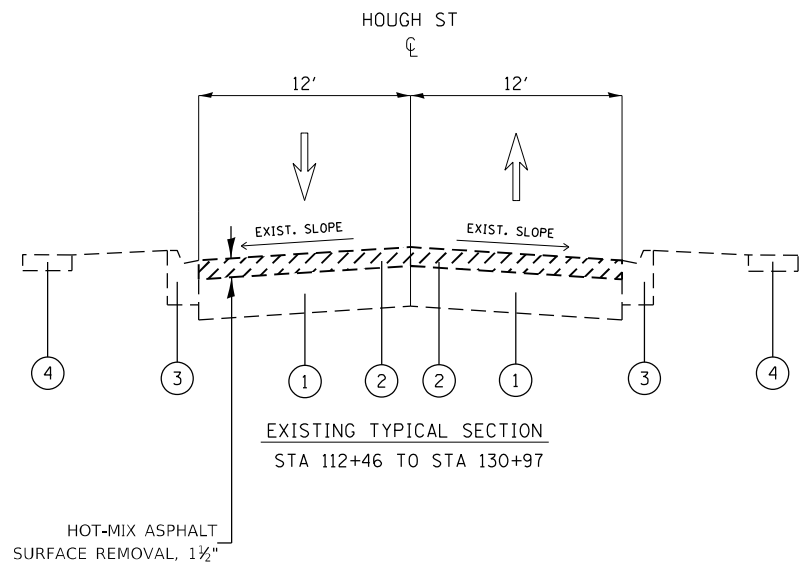
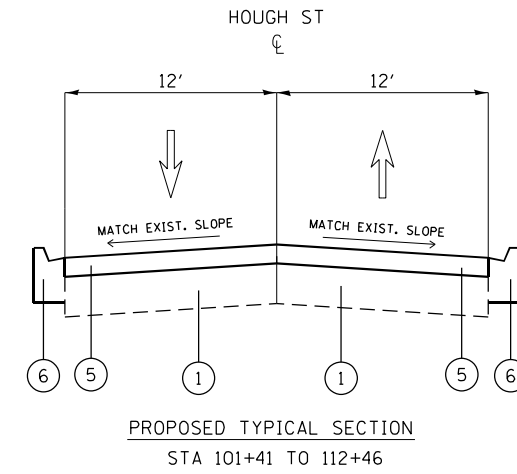
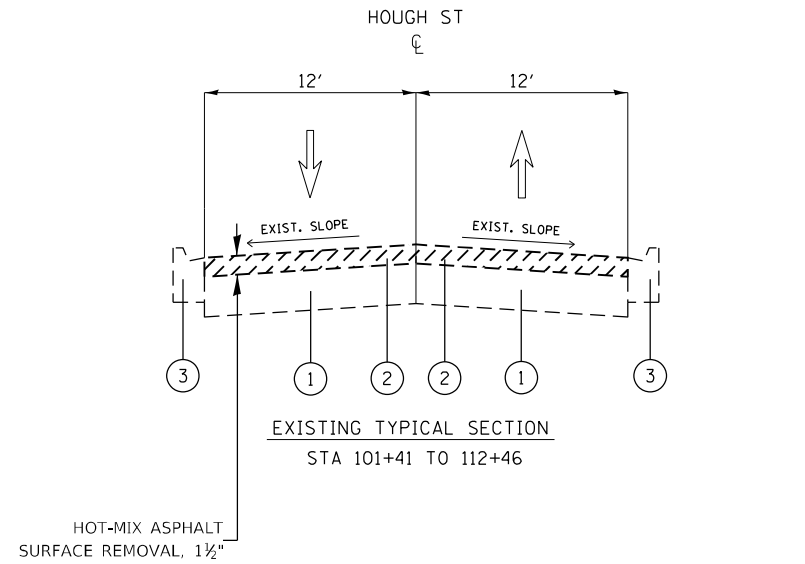
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p:\N\dot-pw\benley.com\PW\DOT Documents\DOT - Offices\District 1\Projects\123922\CADD\Design\123922-str-30	DRAWN -	REVISIONS				38	FAP 0338 22 R52	COOK	50	7
	CHECKED -	REVISIONS				CONTRACT NO. 62T74				
	DATE -	REVISIONS				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT	

**LEGEND - EXISTING:**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10"±
- ② HOT-MIX ASPHALT PAVEMENT 4.0"±
- ③ COMBINATION CONCRETE CURB AND GUTTER
- ④ PORTLAND CEMENT CONCRETE SIDEWALK, 5"

**LEGEND - PROPOSED**

- ⑤ HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1½"
- ⑥ COMBINATION CURB AND GUTTER (REMOVAL AND REPLACEMENT DETERMINED BY RE)



LOCATION	HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (OMP)
	MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
	<b>PAVEMENT</b>		
BARRINGTON ROAD	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"	4.0% @ 70 GYR.	OCP
	<b>PATCHING</b>		
BARRINGTON ROAD	CLASS D PATCHES (HMA BINDER IL-19 MM; 13")	4.0% @ 70 GYR.	QC/OA
	<b>RESIDENTIAL DRIVEWAYS</b>		
BARRINGTON ROAD	HMA SURFACE COURSE, MIX D, IL-9.5, N50; 2"	4.0% @ 50 GYR.	QC/OA
	HMA ASPHALT BASE COURSE 6" (HMA BINDER - IL-19.0)	4.0% @ 50 GYR.	QC/OA
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (OCP); PAY FOR PERFORMANCE (PFP)			

**NOTE**

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
- NOTE 3: THE LONGITUDINAL JOINT SEALANT SHALL BE PLACE OVER THE MILLED SURFACE
- NOTE 4: THE CONTRACTOR SHALL MILL BEFORE PATCHING.

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PLOT DATE = 8/24/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTION</b>	
<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	8
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				

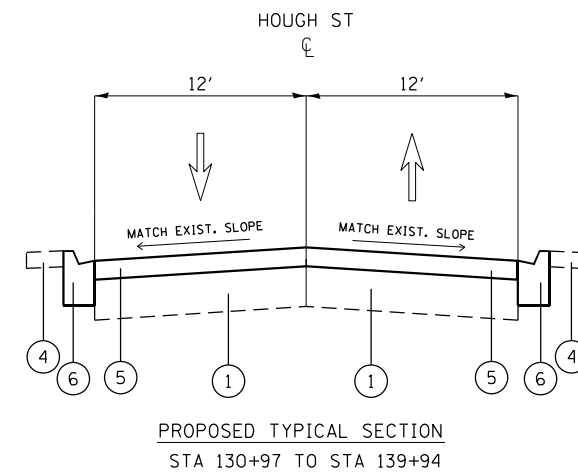
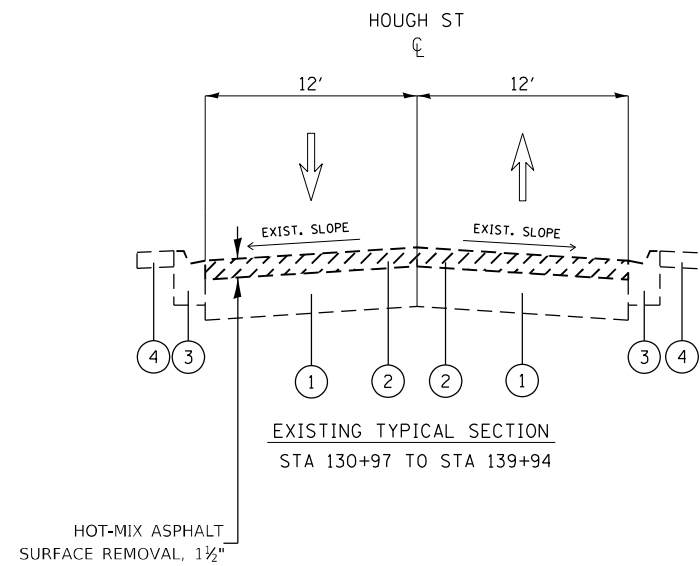


**LEGEND - EXISTING:**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10"±
- ② HOT-MIX ASPHALT PAVEMENT 4.0"±
- ③ COMBINATION CONCRETE CURB AND GUTTER
- ④ PORTLAND CEMENT CONCRETE SIDEWALK, 5"

**LEGEND - PROPOSED**

- ⑤ HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1½"
- ⑥ COMBINATION CURB AND GUTTER (REMOVAL AND REPLACEMENT DETERMINED BY RE)



**NOTE**

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
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- NOTE 4: THE CONTRACTOR SHALL MILL BEFORE PATCHING.

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USER NAME = Fabian,Rangel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/24/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTION</b>			
<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

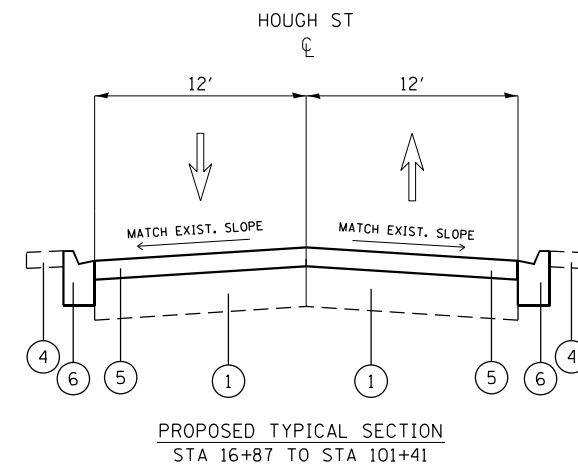
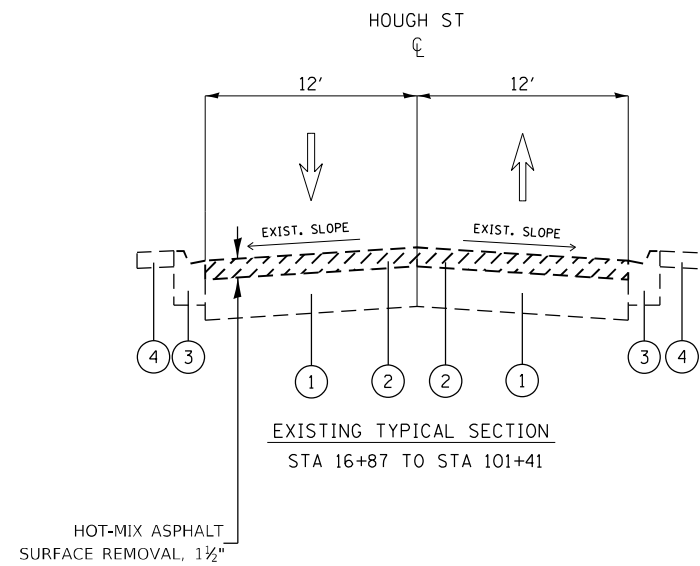
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	9
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				

**LEGEND - EXISTING:**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10"±
- ② HOT-MIX ASPHALT PAVEMENT 4.0"±
- ③ COMBINATION CONCRETE CURB AND GUTTER
- ④ PORTLAND CEMENT CONCRETE SIDEWALK, 5"

**LEGEND - PROPOSED**

- ⑤ HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1½"
- ⑥ COMBINATION CURB AND GUTTER (REMOVAL AND REPLACEMENT DETERMINED BY RE)

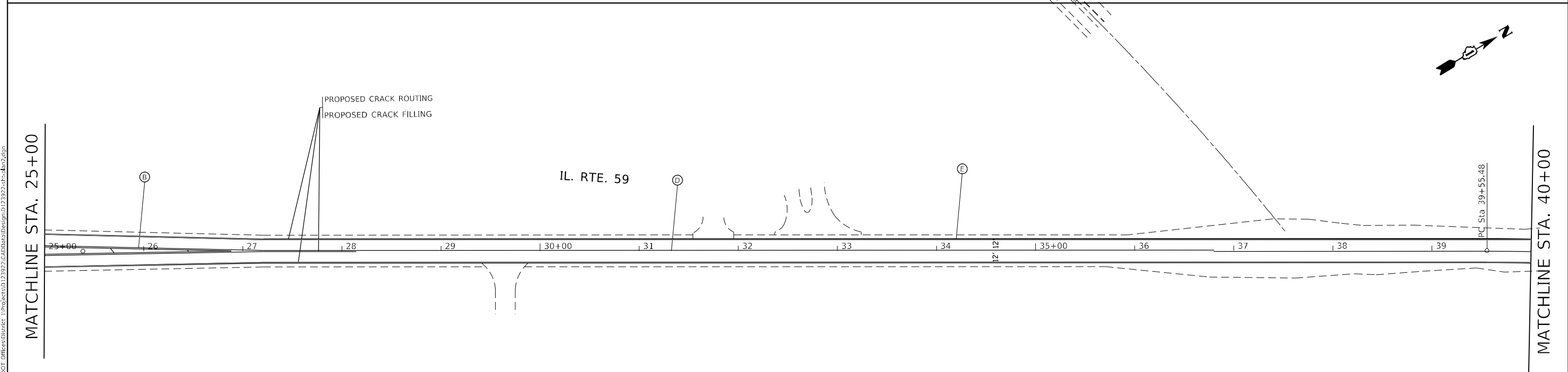
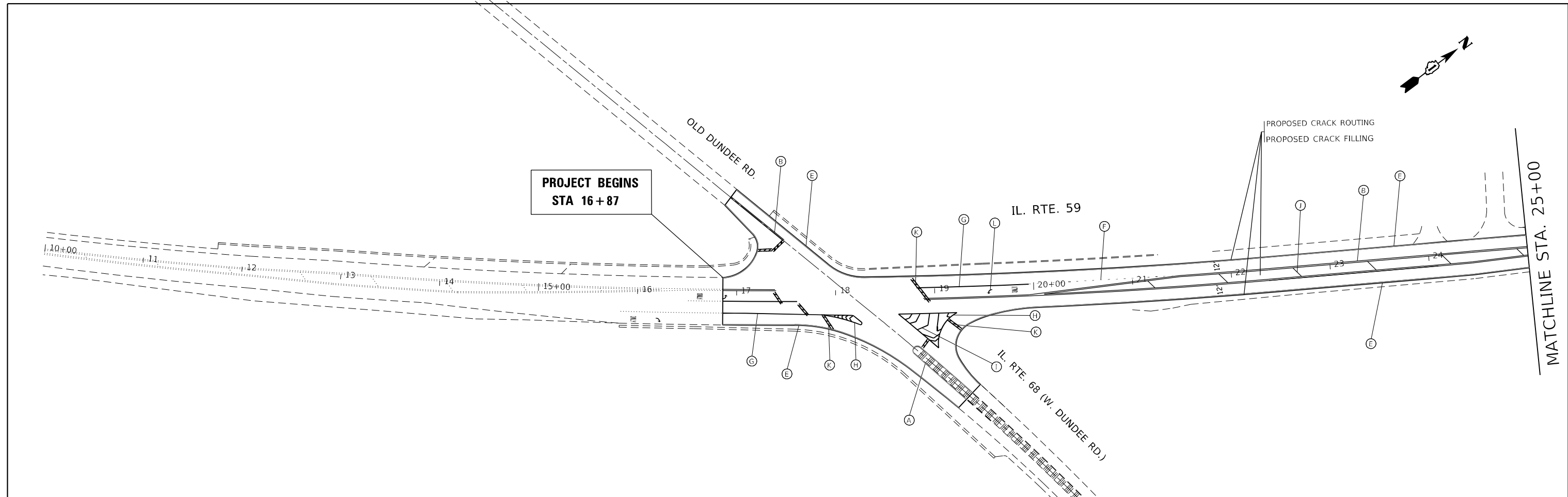


**NOTE**

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
- NOTE 3: THE LONGITUDINAL JOINT SEALANT SHALL BE PLACE OVER THE MILLED SURFACE
- NOTE 4: THE CONTRACTOR SHALL MILL BEFORE PATCHING.

USER NAME = Fabian,Rangel PLOT SCALE = 100,0000' / in. PLOT DATE = 8/24/2023	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTION</b> <b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)</b>		F.A.P. RTE. 338	SECTION FAP 0338 22 RS2	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 10
	DRAWN -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 62T74			
CHECKED -	REVISED -									
DATE -	REVISED -									

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**LEGEND: PROPOSED PAVEMENT STRIPING**

MODIFIED URETHANE PAVEMENT MARKING

- (A) \* 4" SOLID, YELLOW - CENTERLINE
- (B) \* 4", DOUBLE, YELLOW - CENTERLINE
- (C) \* 4", SKIP-30", DASH-10' WHITE
- (D) \* 4", SKIP-30", DASH-10' YELLOW-SOLID YELLOW
- (E) \* 4", SOLID, WHITE - EDGE LINE
- (F) \* 6", TURN LANE SKIP-6", DASH-2' WHITE
- (G) \* 6", SOLID, WHITE
- (H) \* 8", SOLID, WHITE
- (I) \* 12", SOLID, WHITE
- (J) \* 12", SOLID, YELLOW
- (K) \* 24", SOLID, WHITE - STOP LINES
- (L) \* LETTERS AND SYMBOLS, WHITE
- (M) \* LINE 12", SOLID, CROSSWALK WHITE

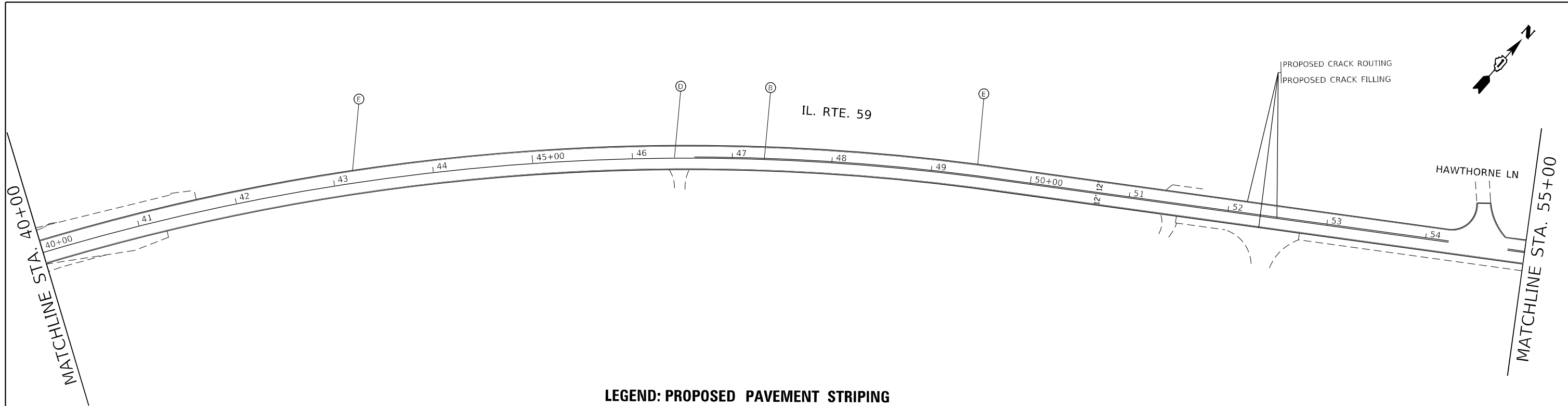
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/24/2023	DATE -	REVISED -

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

**IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)**  
**SUMMARY OF QUANTITIES**

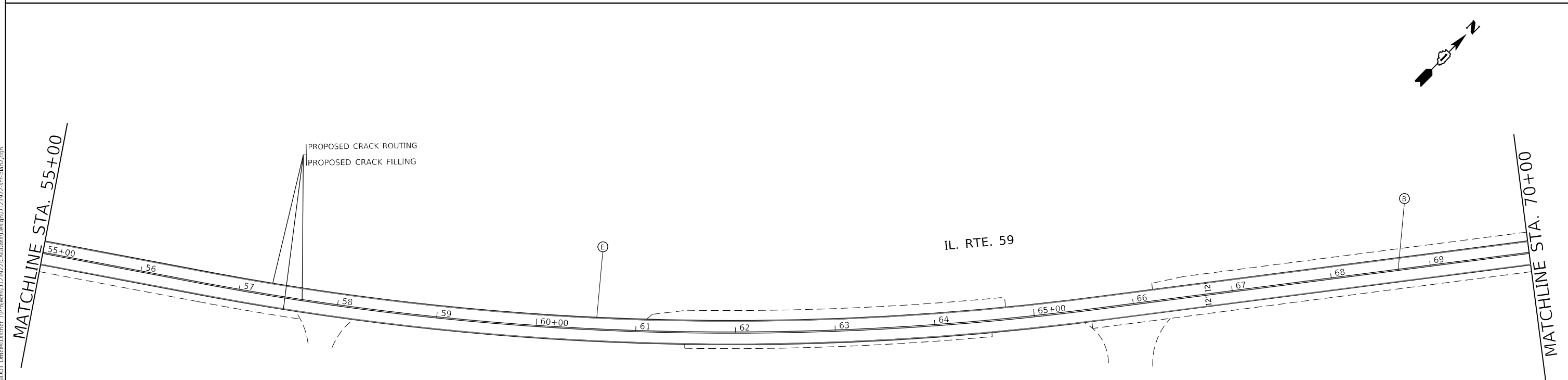
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	11
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				



**LEGEND: PROPOSED PAVEMENT STRIPING**  
MODIFIED URETHANE PAVEMENT MARKING

- (A) \* 4" SOLID, YELLOW - CENTERLINE
- (B) \* 4", DOUBLE, YELLOW - CENTERLINE
- (C) \* 4", SKIP-30', DASH-10' WHITE
- (D) \* 4", SKIP-30', DASH-10' YELLOW-SOLID YELLOW
- (E) \* 4", SOLID, WHITE - EDGE LINE
- (F) \* 6", TURN LANE SKIP-6', DASH-2' WHITE
- (G) \* 6", SOLID, WHITE
- (H) \* 8", SOLID, WHITE
- (I) \* 12", SOLID, WHITE
- (J) \* 12", SOLID, YELLOW
- (K) \* 24", SOLID, WHITE - STOP LINES
- (L) \* LETTERS AND SYMBOLS, WHITE
- (M) \* LINE 12", SOLID, CROSSWALK WHITE



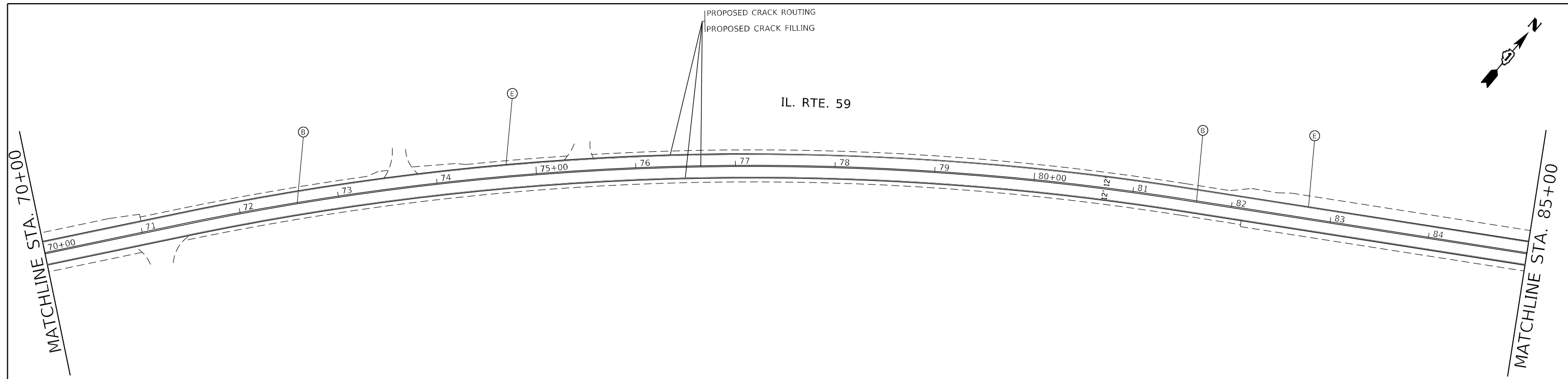
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/24/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

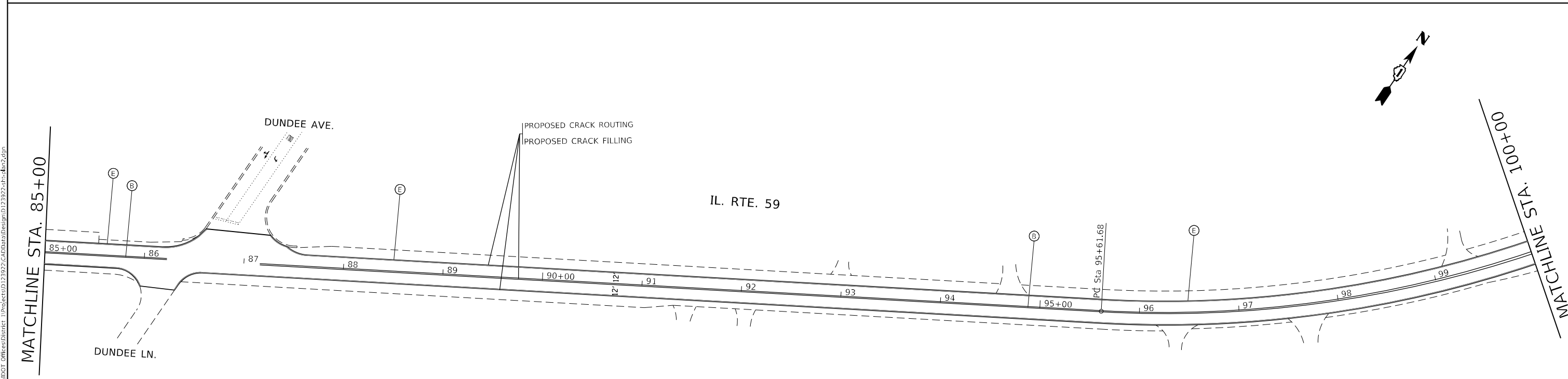
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<b>SUMMARY OF QUANTITIES</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 338	SECTION FAP 0338 22 RS2	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 12
			CONTRACT NO. 62T74	
ILLINOIS FED. AID PROJECT				



**LEGEND: PROPOSED PAVEMENT STRIPING**  
MODIFIED URETHANE PAVEMENT MARKING

- (A) \* 4" SOLID, YELLOW - CENTERLINE
- (B) \* 4", DOUBLE, YELLOW - CENTERLINE
- (C) \* 4", SKIP-30', DASH-10' WHITE
- (D) \* 4", SKIP-30', DASH-10' YELLOW-SOLID YELLOW
- (E) \* 4", SOLID, WHITE - EDGE LINE
- (F) \* 6", TURN LANE SKIP-6', DASH-2' WHITE
- (G) \* 6", SOLID, WHITE
- (H) \* 8", SOLID, WHITE
- (I) \* 12", SOLID, WHITE
- (J) \* 12", SOLID, YELLOW
- (K) \* 24", SOLID, WHITE - STOP LINES
- (L) \* LETTERS AND SYMBOLS, WHITE
- (M) \* LINE 12", SOLID, CROSSWALK WHITE



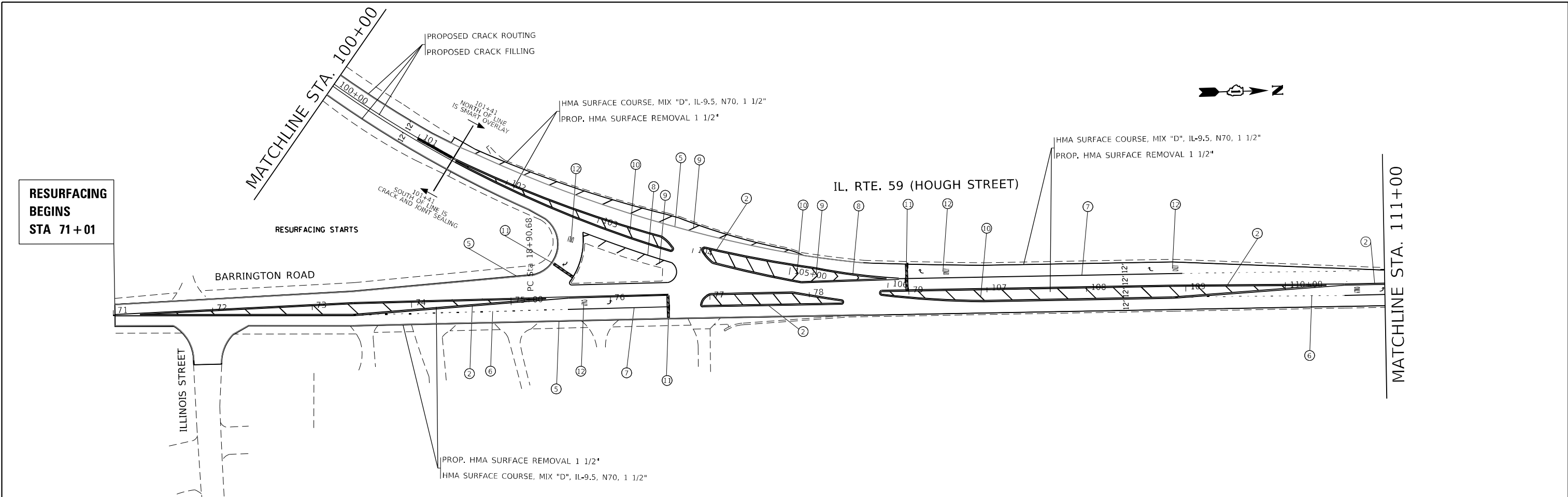
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USER NAME = Fabian,Rangel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/24/2023	DATE -	REVISED -

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

IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)			
SUMMARY OF QUANTITIES			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

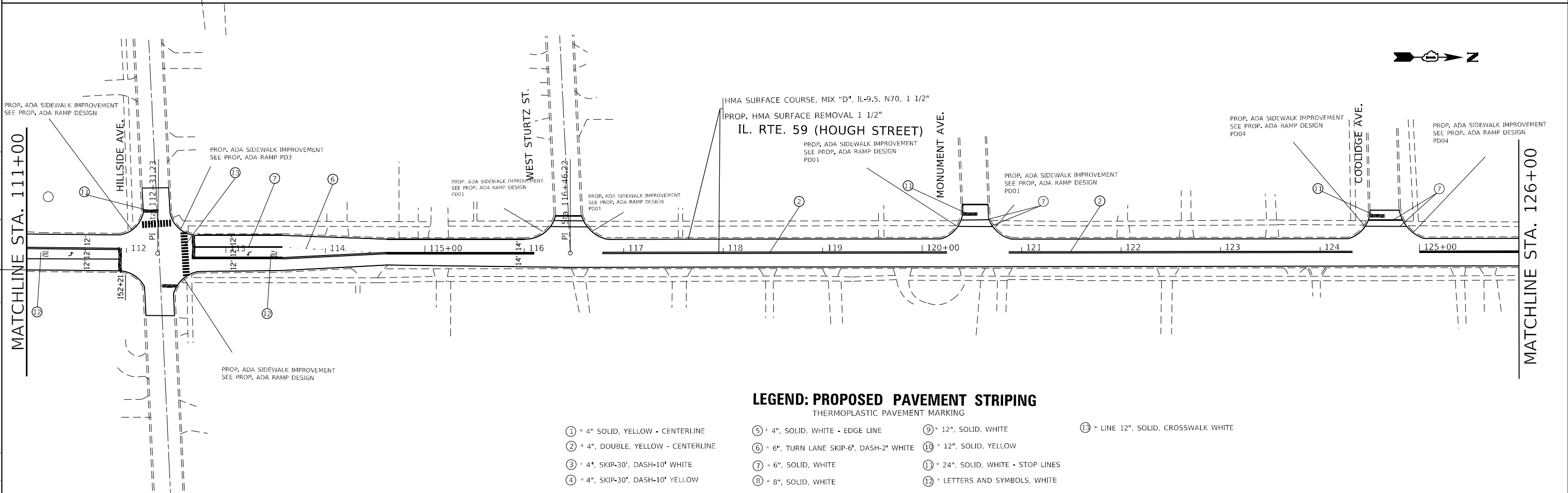
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	13
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				



**RESURFACING  
BEGINS  
STA 71+01**

RESURFACING STARTS

MATCHLINE STA. 111+00



PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP DESIGN

PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP PD3

PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP DESIGN  
PD01

PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP DESIGN  
PD01

HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"  
PROP. HMA SURFACE REMOVAL 1 1/2"  
IL. RTE. 59 (HOUGH STREET)  
PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP DESIGN  
PD01

PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP DESIGN  
PD01

PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP DESIGN  
PD04

PROP. ADA SIDEWALK IMPROVEMENT  
SEE PROP. ADA RAMP DESIGN  
PD04

**LEGEND: PROPOSED PAVEMENT STRIPING**  
THERMOPLASTIC PAVEMENT MARKING

- ① \* 4" SOLID, YELLOW - CENTERLINE
- ② \* 4", DOUBLE, YELLOW - CENTERLINE
- ③ \* 4", SKIP-30', DASH-10' WHITE
- ④ \* 4", SKIP-30', DASH-10' YELLOW
- ⑤ \* 4", SOLID, WHITE - EDGE LINE
- ⑥ \* 6", TURN LANE SKIP-6', DASH-2' WHITE
- ⑦ \* 6", SOLID, WHITE
- ⑧ \* 8", SOLID, WHITE
- ⑨ \* 12", SOLID, WHITE
- ⑩ \* 12", SOLID, YELLOW
- ⑪ \* 24", SOLID, WHITE - STOP LINES
- ⑫ \* LETTERS AND SYMBOLS, WHITE
- ⑬ \* LINE 12", SOLID, CROSSWALK WHITE

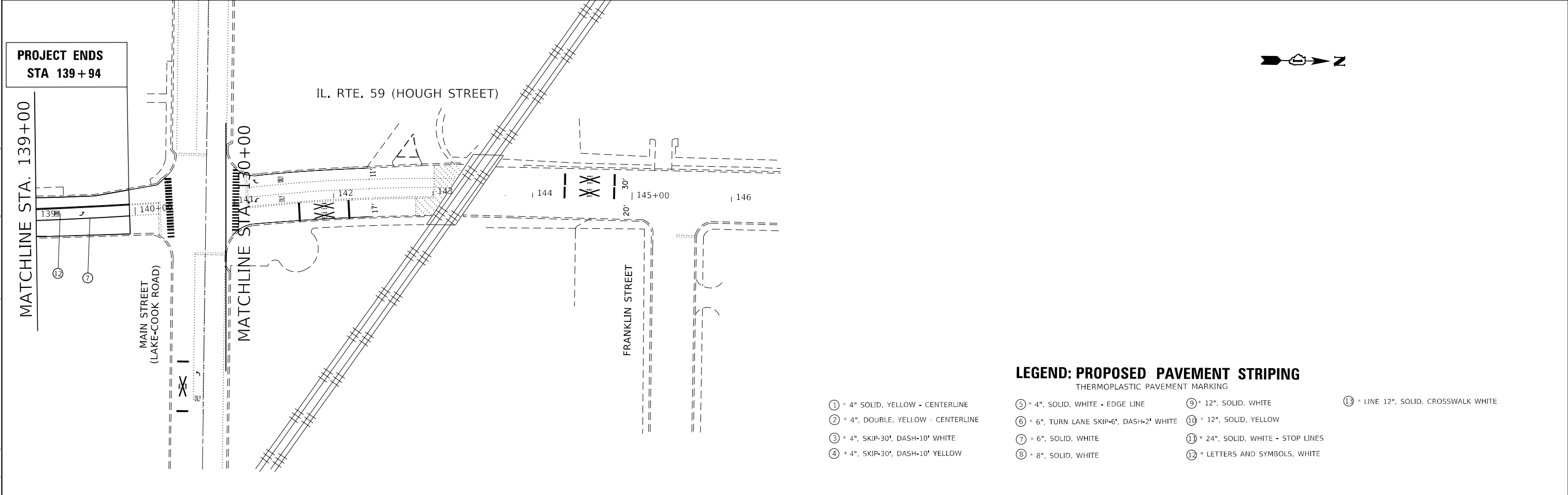
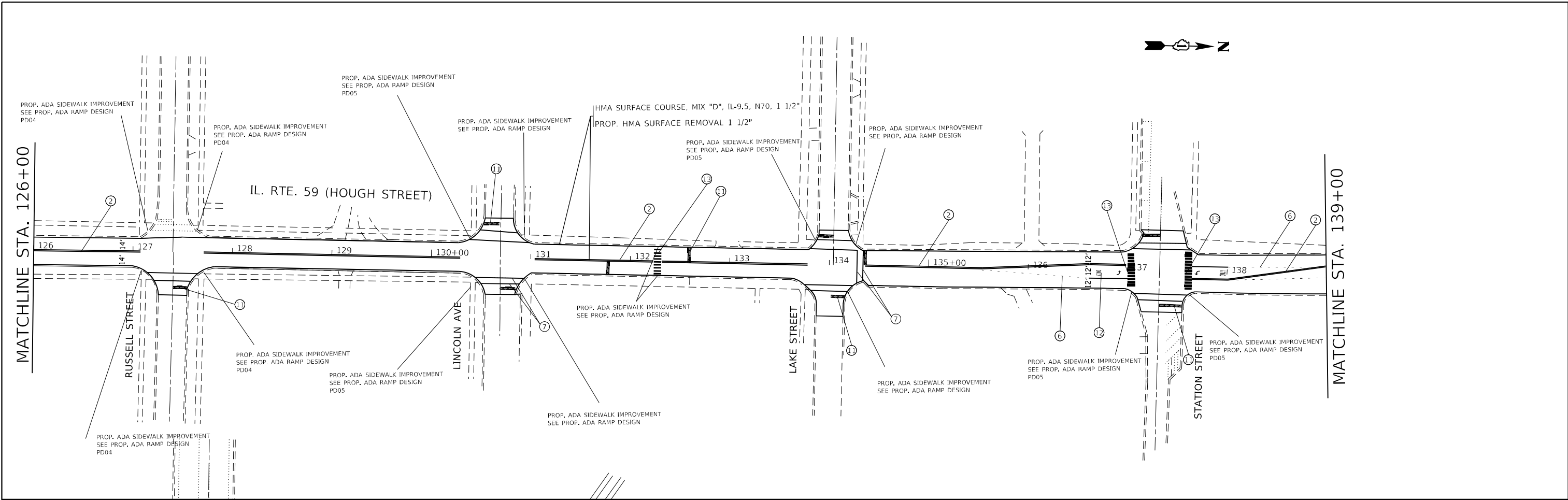
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USER NAME = Fabian,Rangel	DESIGNED -	REVISED - FR 10/03/2023
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/3/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)</b>			
<b>SUMMARY OF QUANTITIES</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE. 338	SECTION FAP 0338 22 R52	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 14
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				



**PROJECT ENDS  
STA 139+94**

- LEGEND: PROPOSED PAVEMENT STRIPING**  
THERMOPLASTIC PAVEMENT MARKING
- ① \* 4" SOLID, YELLOW - CENTERLINE
  - ② \* 4", DOUBLE, YELLOW - CENTERLINE
  - ③ \* 4", SKIP-30', DASH-10' WHITE
  - ④ \* 4", SKIP-30', DASH-10' YELLOW
  - ⑤ \* 4", SOLID, WHITE - EDGE LINE
  - ⑥ \* 6", TURN LANE SKIP-6', DASH-2' WHITE
  - ⑦ \* 6", SOLID, WHITE
  - ⑧ \* 8", SOLID, WHITE
  - ⑨ \* 12", SOLID, WHITE
  - ⑩ \* 12", SOLID, YELLOW
  - ⑪ \* 24", SOLID, WHITE - STOP LINES
  - ⑫ \* LETTERS AND SYMBOLS, WHITE
  - ⑬ \* LINE 12", SOLID, CROSSWALK WHITE

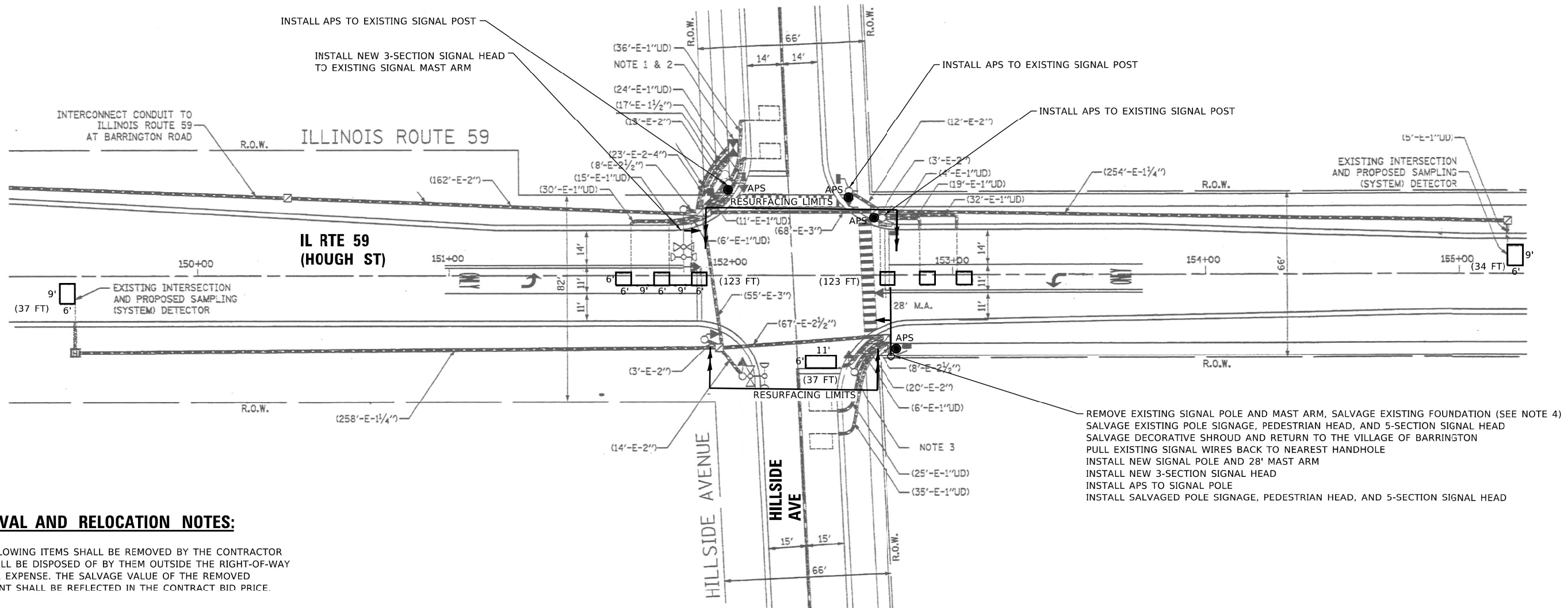
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USER NAME = Fabian.Rangel	DESIGNED -	REVISED - FR 10/03/2023
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/3/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)</b>			
<b>SUMMARY OF QUANTITIES</b>			
SCALE: 1"=50'	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	15
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				



**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
- 1 EACH STEEL MAST ARM ASSEMBLY AND POST

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 1 EACH 5 SECTION SIGNAL HEAD
- 1 EACH PEDESTRIAN HEAD

**NOTES:**

1. REMOVE EXISTING PUSH BUTTONS. APS PUSH BUTTONS TO BE INSTALLED ON EXISTING SIGNAL POSTS WITH EXISTING NO. 14 2C WIRE.
2. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS)
3. SEE ADA RAMP DETAILS FOR PROPOSED RAMP GEOMETRICS.
4. CONTRACTOR TO VERIFY EXISTING BOLT PATTERN PRIOR TO ORDERING THE NEW POLE AND MAST ARM TO ENSURE EXISTING FOUNDATION IS SUFFICIENT TO BE USED.
5. CONTRACTOR TO PAINT PROPOSED MAST ARM AND POLE TO MATCH EXISTING COLOR.
6. CONTRACTOR TO SALVAGE AND RETURN THE DECORATIVE SHROUD TO THE VILLAGE OF BARRINGTON.

REMOVE EXISTING SIGNAL POLE AND MAST ARM, SALVAGE EXISTING FOUNDATION (SEE NOTE 4)  
 SALVAGE EXISTING POLE SIGNAGE, PEDESTRIAN HEAD, AND 5-SECTION SIGNAL HEAD  
 SALVAGE DECORATIVE SHROUD AND RETURN TO THE VILLAGE OF BARRINGTON  
 PULL EXISTING SIGNAL WIRES BACK TO NEAREST HANDHOLE  
 INSTALL NEW SIGNAL POLE AND 28' MAST ARM  
 INSTALL NEW 3-SECTION SIGNAL HEAD  
 INSTALL APS TO SIGNAL POLE  
 INSTALL SALVAGED POLE SIGNAGE, PEDESTRIAN HEAD, AND 5-SECTION SIGNAL HEAD

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USER NAME = Fabian,Rangel	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/24/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN  
IL RTE 59 (HOUGH ST) AND HILLSIDE AVE**

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	16
CONTRACT NO. 62174				
ILLINOIS FED. AID PROJECT				

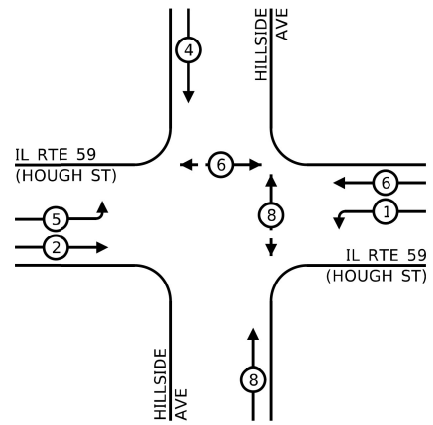
**TS 2905  
ECON 202**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	281
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2
DETECTOR LOOP, TYPE 1	FOOT	354
REMOVE AND REINSTALL THE ELECTRIC CABLE FROM CONDUIT	FOOT	84
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

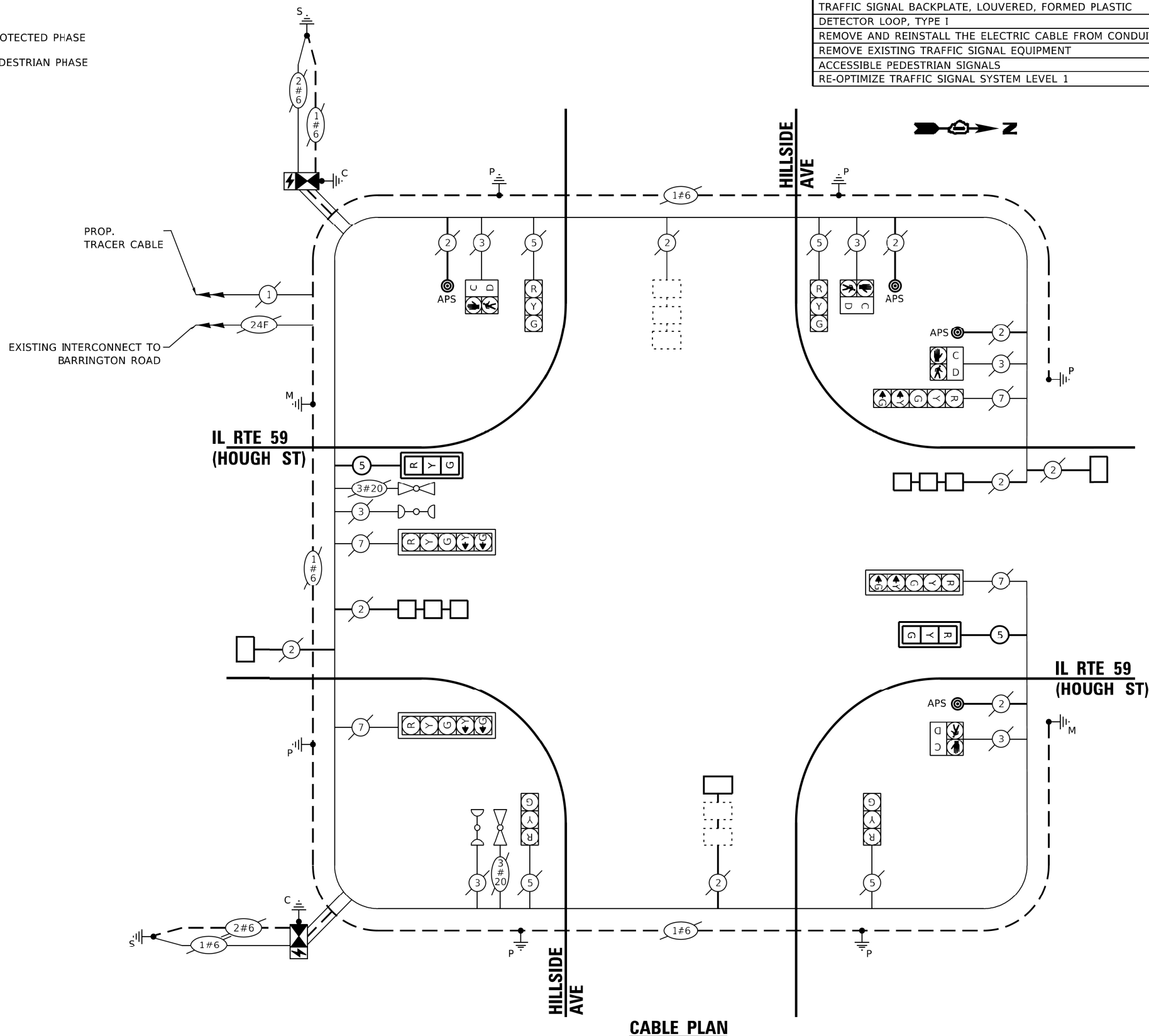
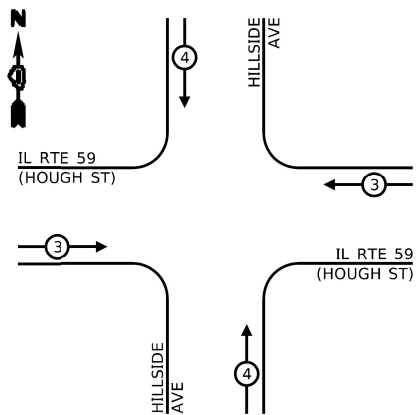
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ← (circle with star) → PROTECTED PHASE
- ← (circle with star) → PEDESTRIAN PHASE

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CABLE PLAN**

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>332.0</b>

ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196  
 ENERGY SUPPLY: CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: \_\_\_\_\_

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN  
 IL RTE 59 (HOUGH ST) AND HILLSIDE AVE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	17
CONTRACT NO. 62T74				

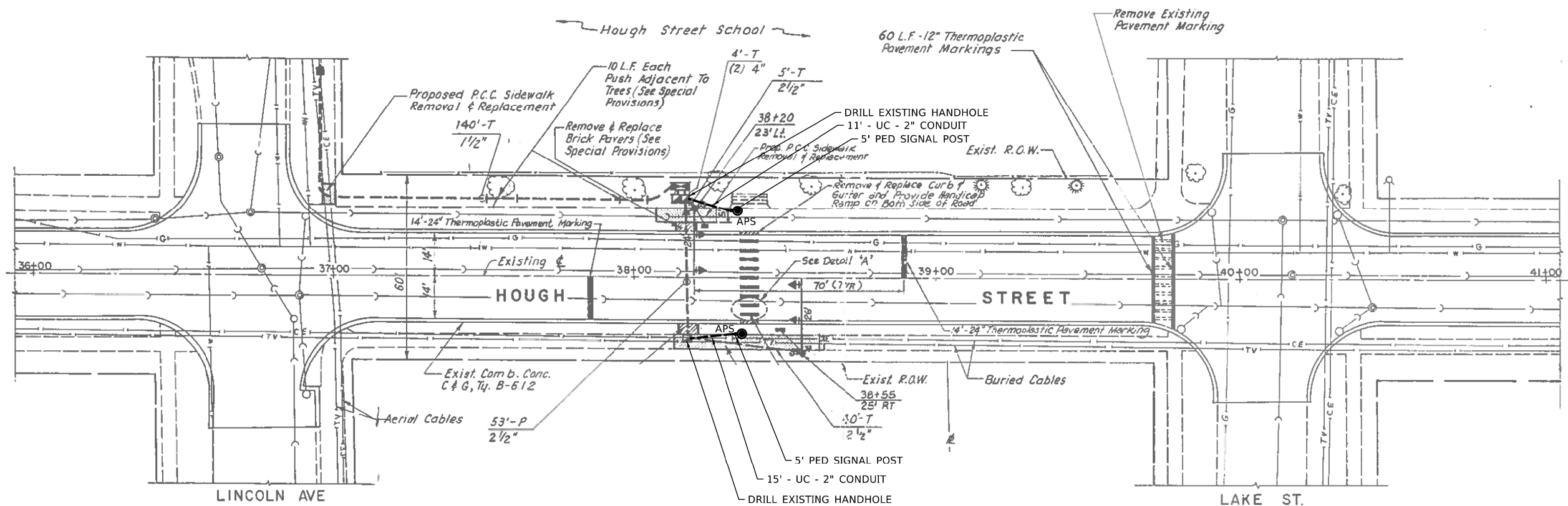
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USER NAME = Fabian,Rangel	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/24/2023	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: 1"=50'  
 SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



**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.

- 2 EACH PEDESTRIAN PUSH-BUTTON

**NOTES:**

1. THIS PLAN IS FOR THE REMOVAL OF EXISTING PUSH BUTTONS. THEN APS PUSH BUTTONS TO BE INSTALLED ON NEW SIGNAL POSTS WITH NEW NO. 14 2C WIRE.
2. SEE ADA RAMP DETAILS FOR PROPOSED RAMP GEOMETRICS.

**TS 4692**

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PLOT DATE = 8/24/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

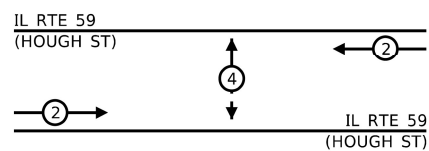
**TRAFFIC SIGNAL MODIFICATION PLAN  
IL RTE 59 (HOUGH ST) AND HILLSIDE AVE**

SCALE: 1"=50'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 338	SECTION FAP 0338 22 RS2	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 18
			CONTRACT NO. 62T74	
ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**

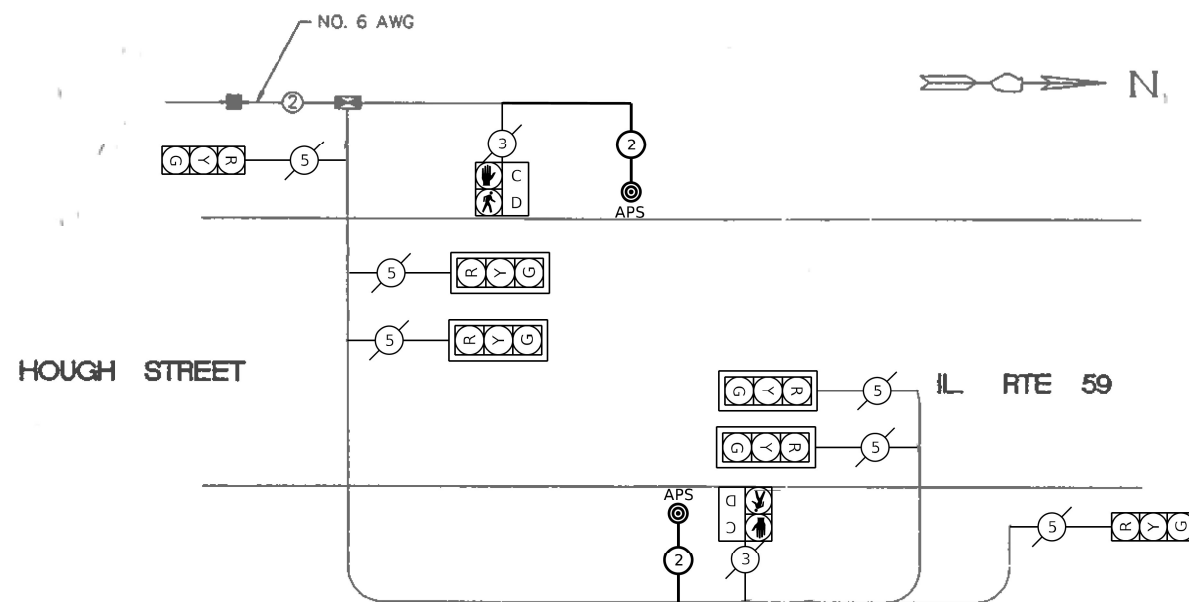


**LEGEND:**



**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	26
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	150
DRILL EXISTING HANDHOLE	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 'T	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**

NO SCALE

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	-	10	10	8
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>219.4</b>

ENERGY COSTS TO:

VILLAGE OF BARRINGTON

200 S HOUGH ST  
BARRINGTON, IL 60010

ENERGY SUPPLY: CONTACT: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
ACCOUNT NUMBER: \_\_\_\_\_

TS 4692

USER NAME = Fabian,Rangel	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/24/2023	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN  
IL RTE 59 (HOUGH ST) AND HILLSIDE AVE

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	19
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				

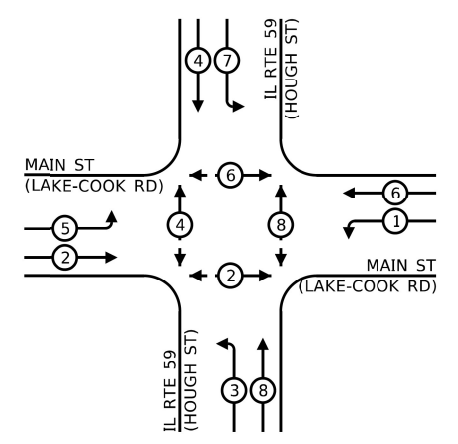
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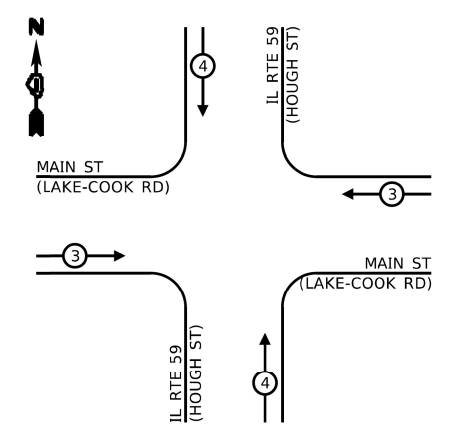
**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	252
DETECTOR LOOP, TYPE 1	FOOT	35
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**PROPOSED CONTROLLER SEQUENCE**



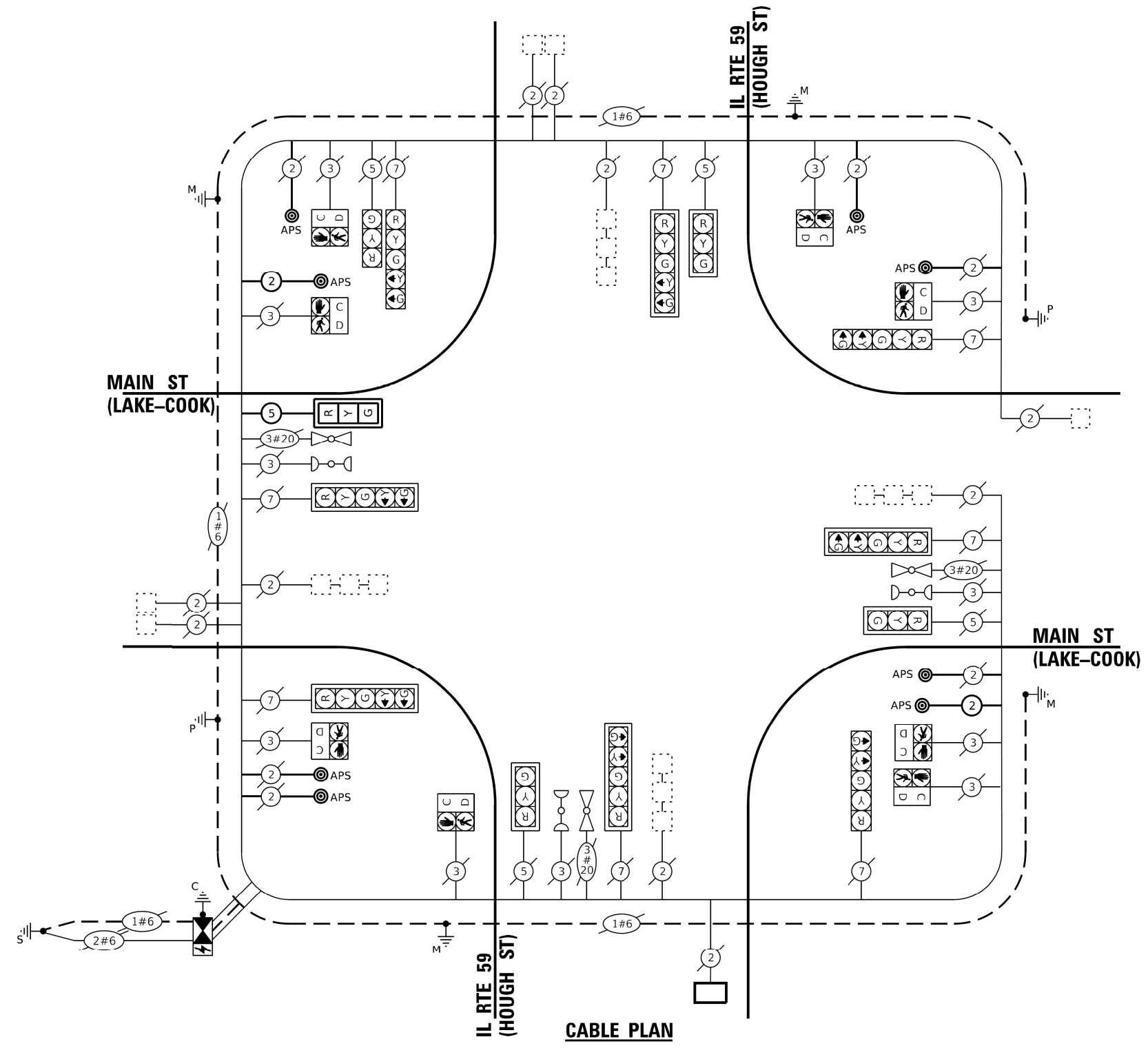
**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	-	10	10	8
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
<b>TOTAL =</b>				<b>219.4</b>

ENERGY COSTS TO:  
**VILLAGE OF BARRINGTON**  
 200 S HOUGH ST  
 BARRINGTON, IL 60010  
 ENERGY SUPPLY: CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_  
 ACCOUNT NUMBER: \_\_\_\_\_



**CABLE PLAN**



MODEL: Default  
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/24/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC SIGNAL MODIFICATION PLAN</b>	
<b>IL RTE 59 (HOUGH ST) AND HILLSIDE AVE</b>	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

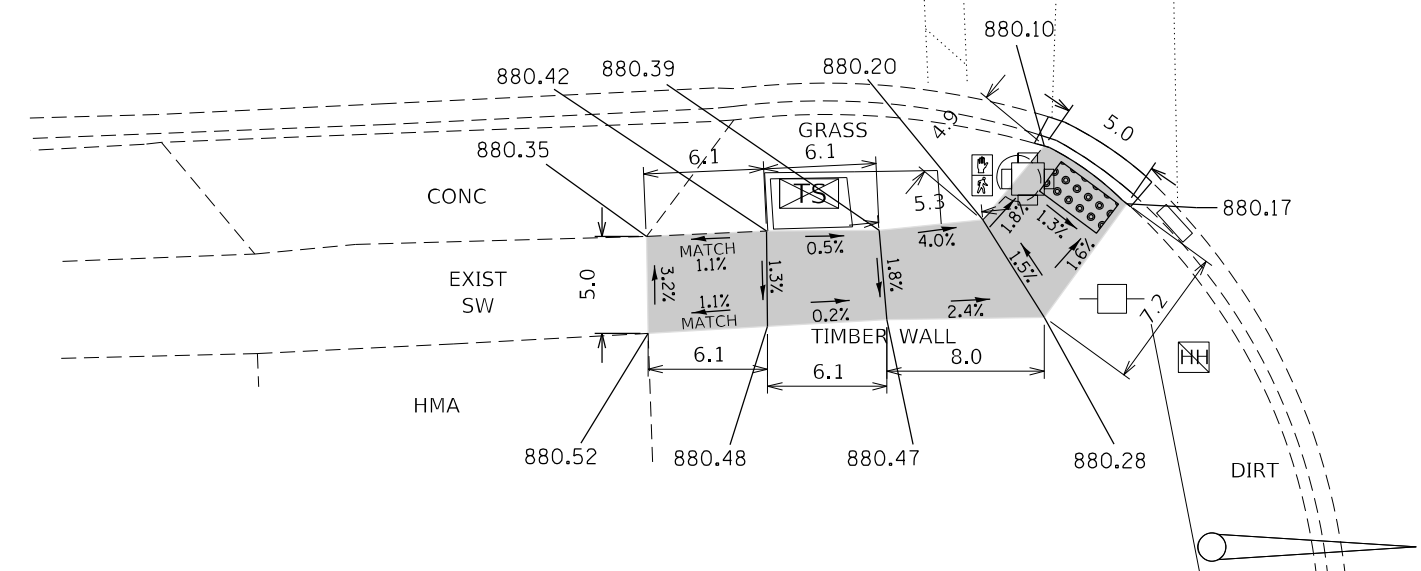
F.A.P. RTE. 338	SECTION FAP 0338 22 RS2	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 21
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				

**TS 11280  
 EAGLE D103**



HILLSIDE AVE.

HOUGH ST.



ONLY

**DESIGNER NOTES**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

BENCHMARK: 1195 POLE SPIKE @ FH ELEVATION 879.825 FT, NORTHWEST CORNER ON HILLSIDE AVE AND IL-59,

**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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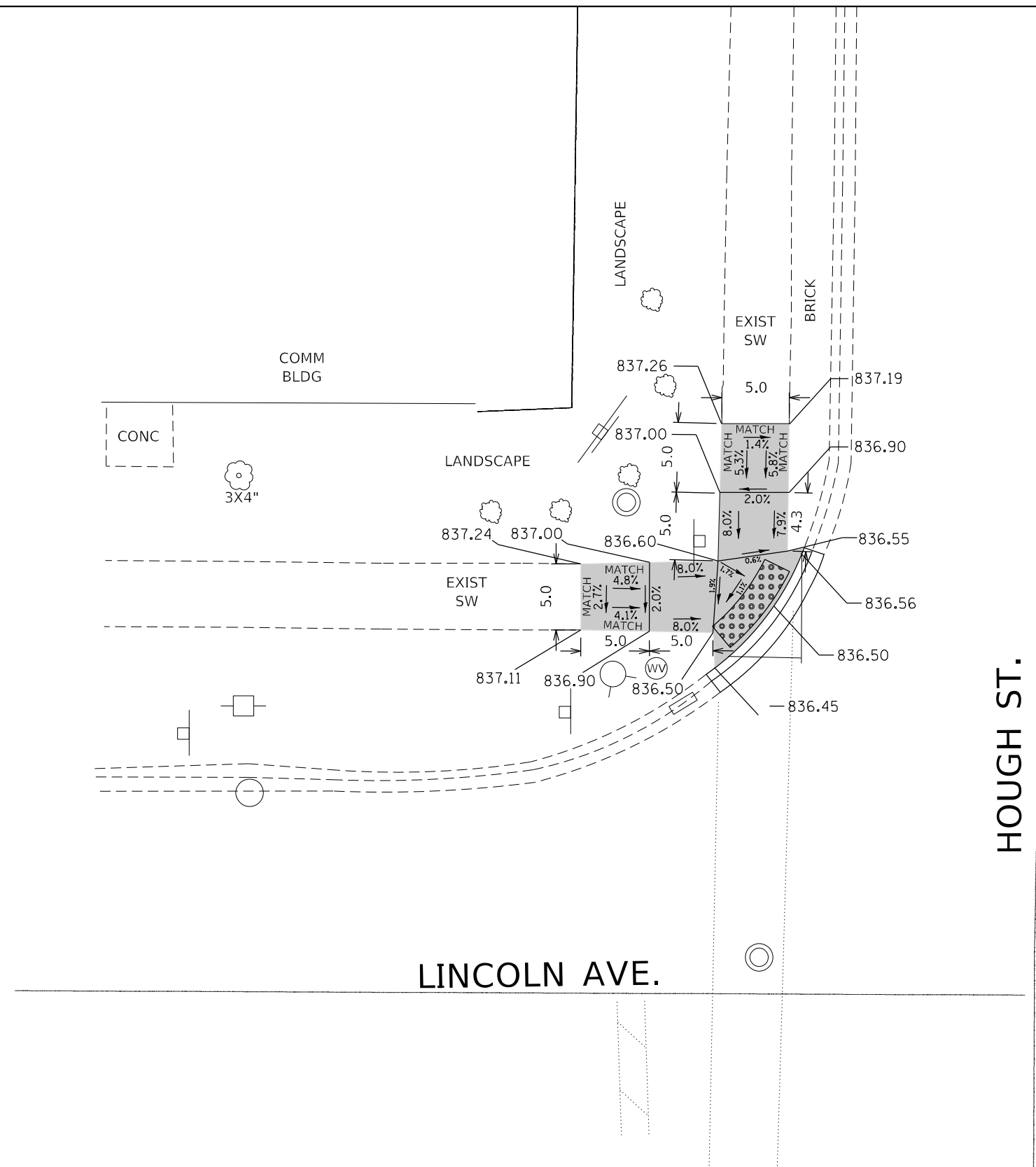
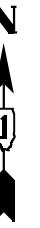
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)  
CURB RAMP IMPROVEMENT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T74	





HOUGH ST.

LINCOLN AVE.

**DESIGNER NOTES**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

BENCHMARK: 2602 SOUTHWEST BOLT @ FH ELEVATION 838,532 FT, NORTHWEST CORNER LINCOLN AVE AND IL-59

**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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PLOT DATE = 10/4/2023	DATE -	REVISED -

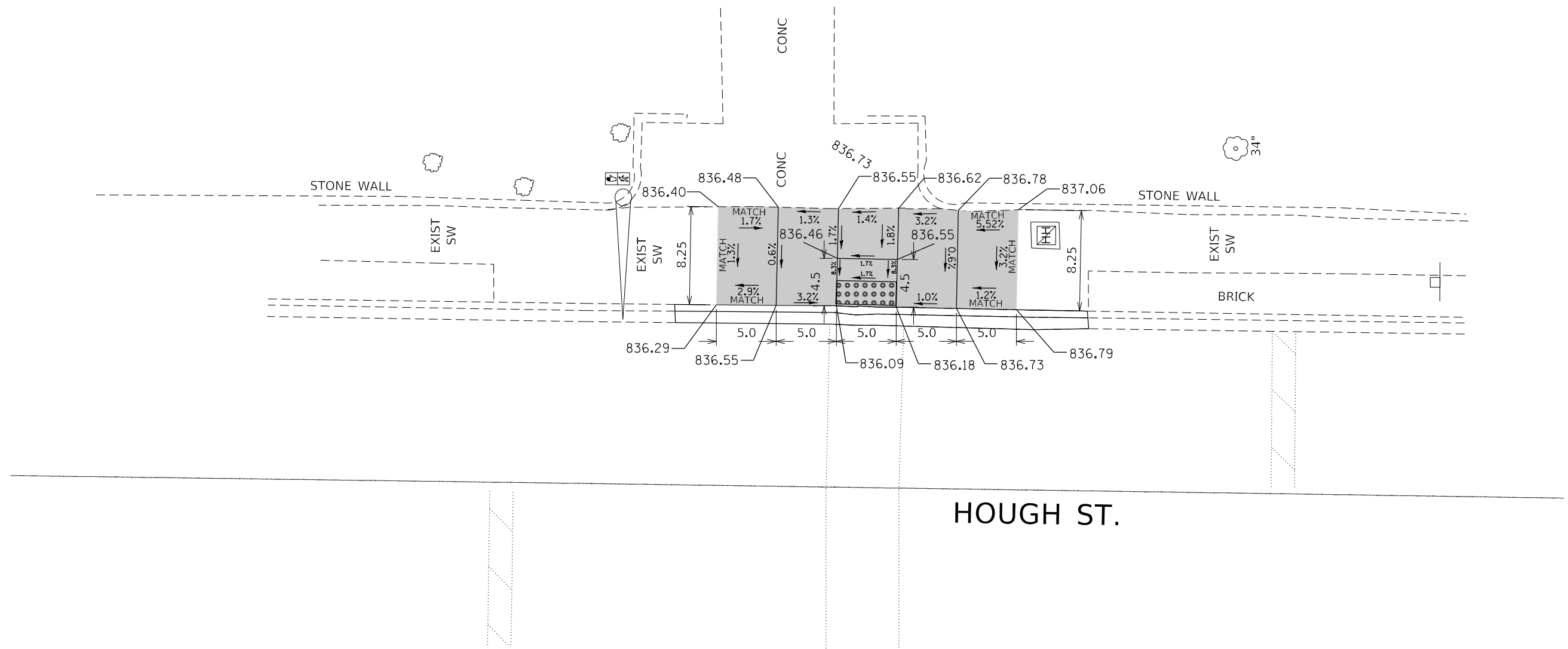
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)  
CURB RAMP IMPROVEMENT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	24
				CONTRACT NO. 62T74
		ILLINOIS	FED. AID PROJECT	





**DESIGNER NOTES**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

BENCHMARK: 3359 SOUTHWEST BOLT @ FH ELEVATION 838,532 FT, NORTHWEST CORNER OF LINCOLN AVE AND IL-59

**LEGEND**

— PROPOSED SIDE CURB

EXIST. GRASS

PROPOSED SIDEWALK

DETECTABLE WARNINGS

**CONSTRUCTION NOTES:**

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

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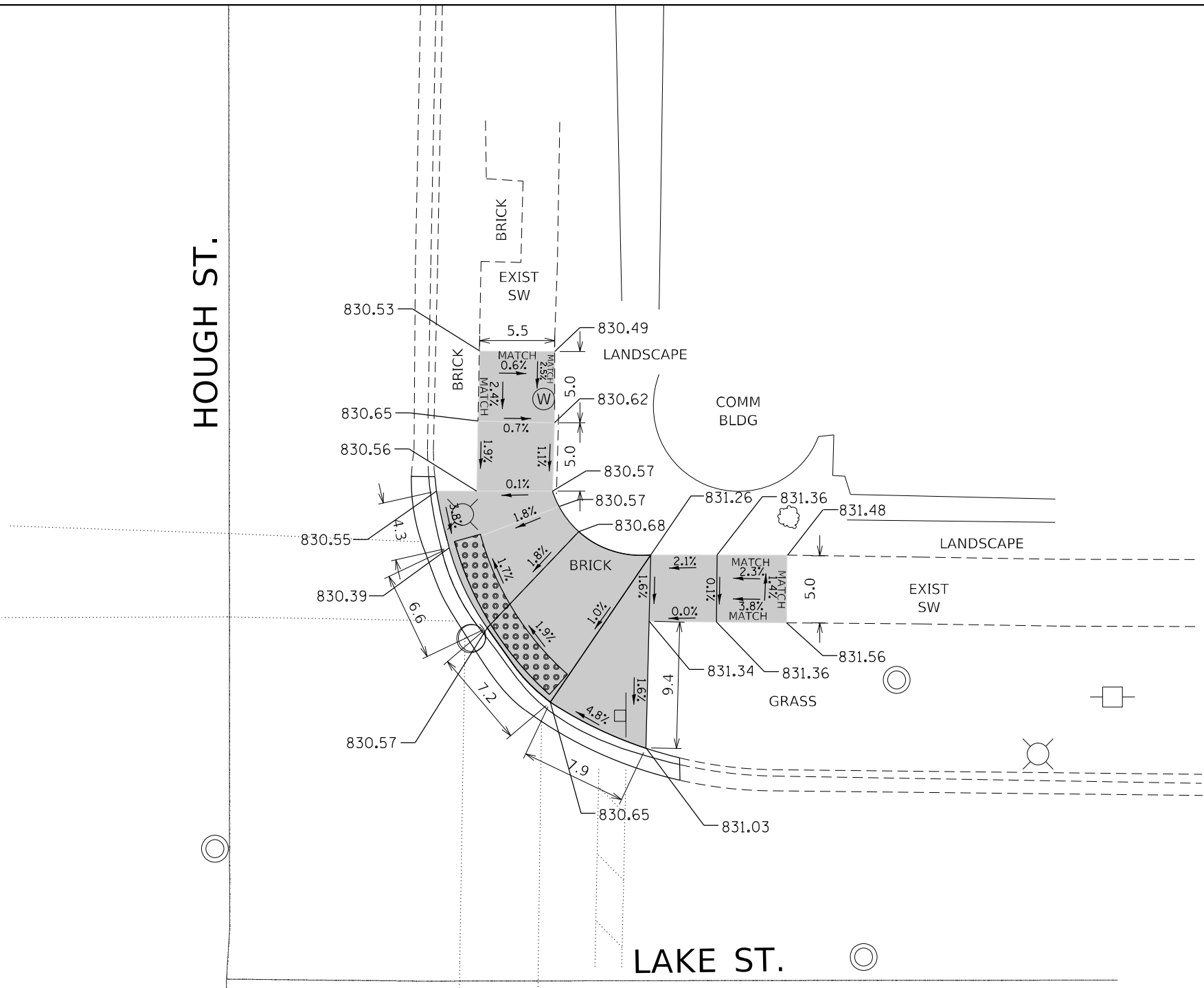
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD) CURB RAMP IMPROVEMENT</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE. 338	SECTION FAP 0338 22 RS2	COUNTY COOK	TOTAL SHEETS 50	SHEET NO. 25
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				



HOUGH ST.







**DESIGNER NOTES**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

BENCHMARK: 1663 SOUTH EAST BOLT @ FH ELEVATION 833,820 FT, SOUTHWEST CORNER LAKE ST AND IL-59

**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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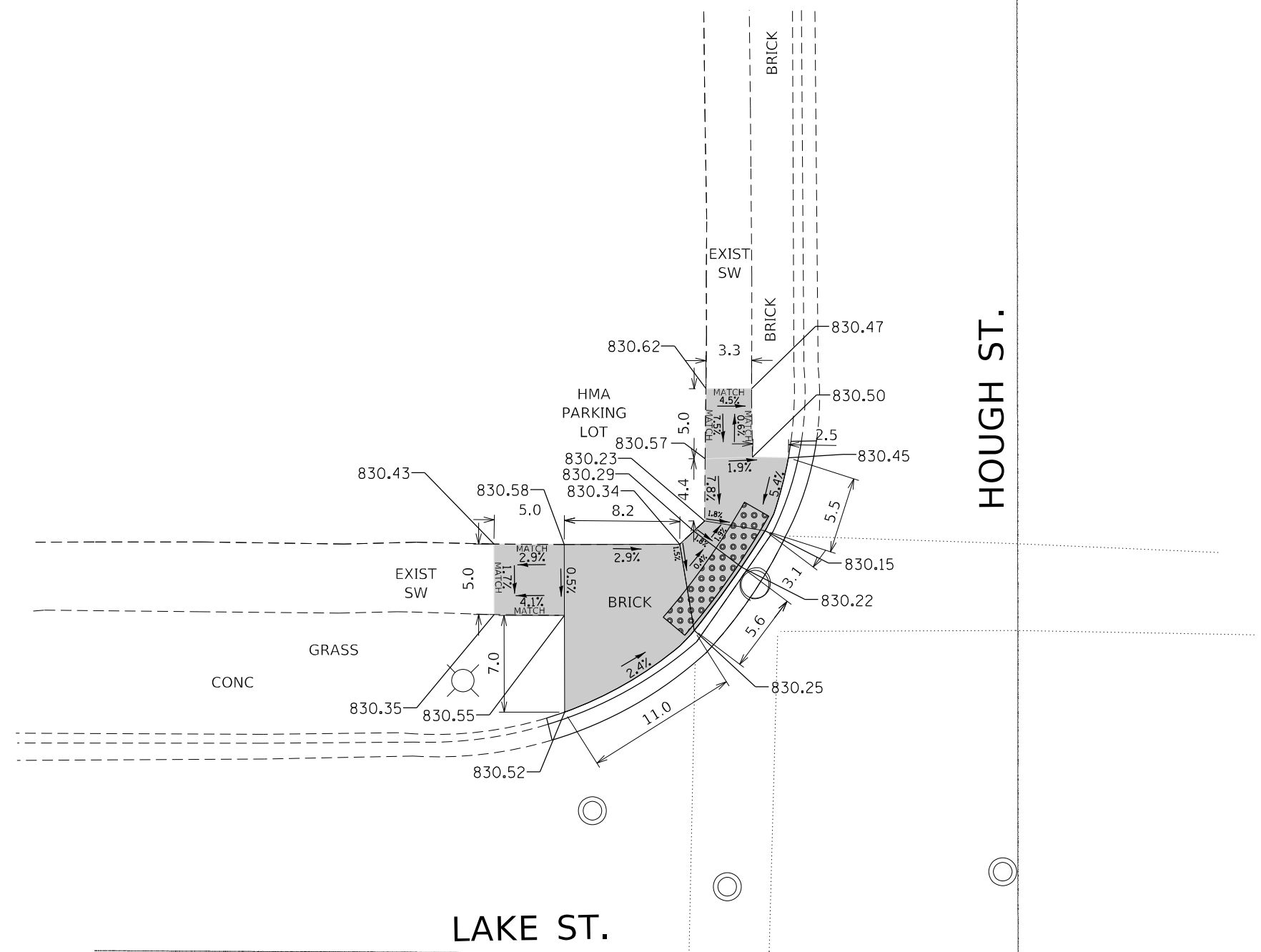
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PLOT DATE = 10/4/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)  
CURB RAMP IMPROVEMENT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	26
CONTRACT NO. 62T74			ILLINOIS FED. AID PROJECT	



HOUGH ST.

LAKE ST.

**DESIGNER NOTES**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

BENCHMARK: 1663 SOUTH EAST BOLT @ FH ELEVATION 833.820 FT, SOUTHWEST CORNER LAKE ST AND IL-59

**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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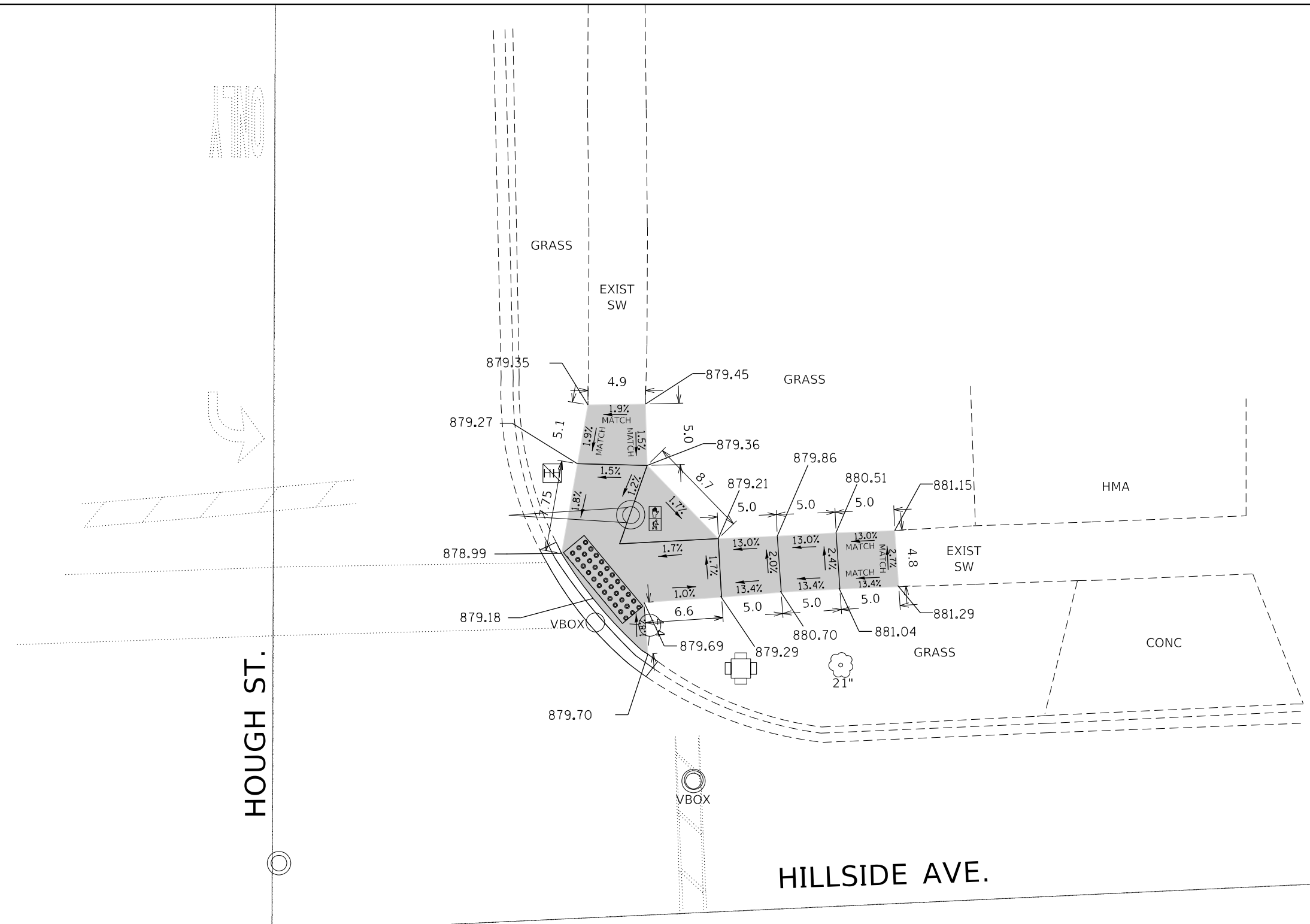
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PLOT SCALE = 9.7883' / in.	CHECKED -	REVISED -
PLOT DATE = 10/4/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)  
CURB RAMP IMPROVEMENT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	27
CONTRACT NO. 62T74			ILLINOIS FED. AID PROJECT	



HOUGH ST.

HILLSIDE AVE.

**DESIGNER NOTES**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

BENCHMARK: 1195 POLE SPIKE @ FH ELEVATION 879.825 FT, NORTHWEST CORNER ON HILLSIDE AVE AND IL-59

**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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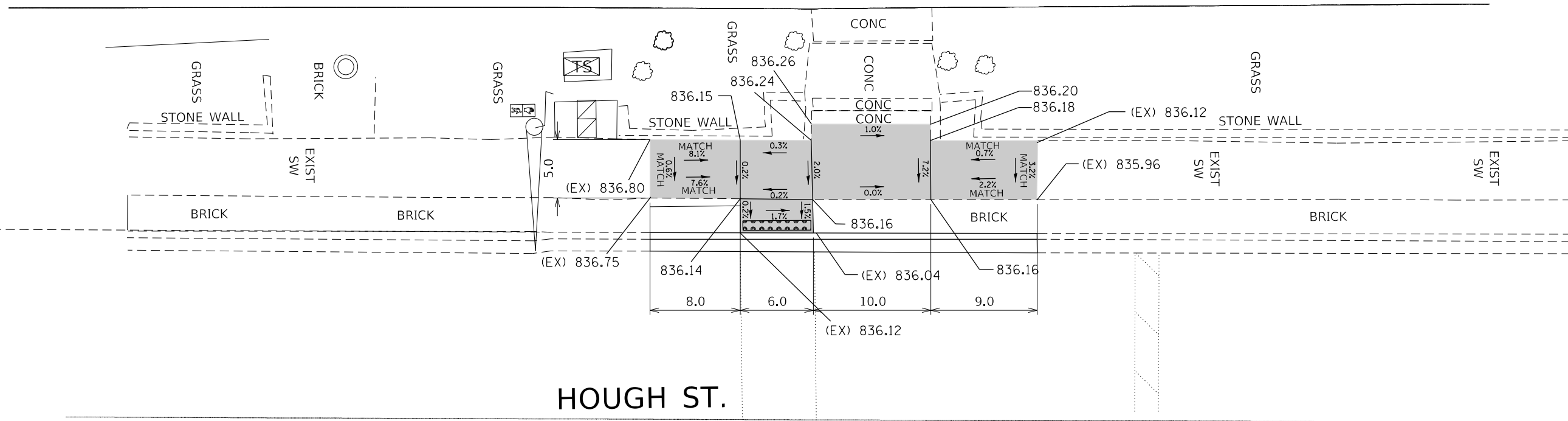
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	DRAWN -	REVISED -
PLOT SCALE = 9,7883' / in.	CHECKED -	REVISED -
PLOT DATE = 10/4/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD)  
CURB RAMP IMPROVEMENT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T74	



HOUGH ST.

**DESIGNER NOTES**

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- 2) SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- 3) AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN, WILL REQUIRE DETAILED SURVEY AND DESIGN.
- 4) ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

BENCHMARK: 3359 SOUTHWEST BOLT @ FH ELEVATION 838.532 FT, NORTHWEST CORNER OF LINCOLN AVE AND IL-59

**LEGEND**

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

**CONSTRUCTION NOTES:**

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

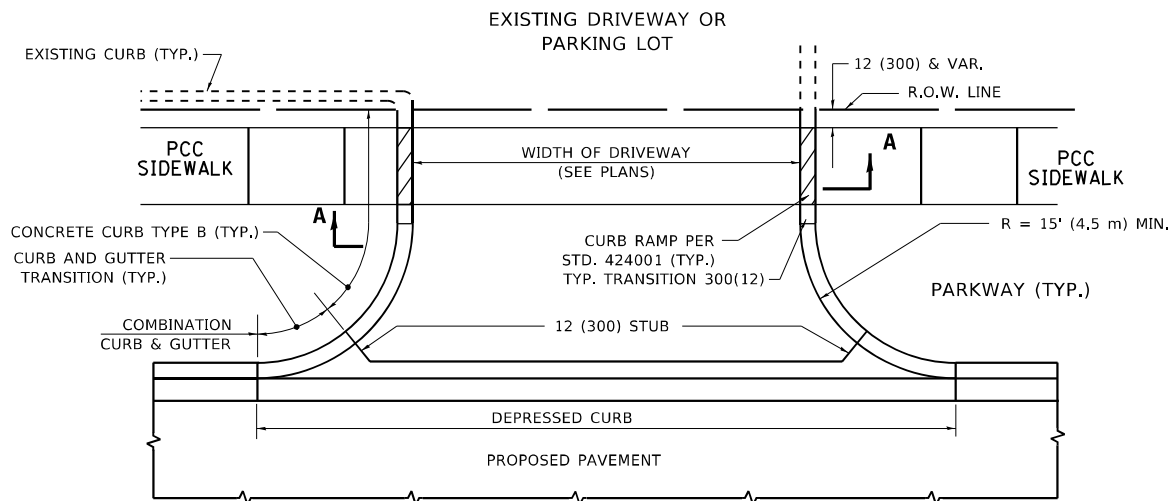
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USER NAME = Fabian,Rangel	DESIGNED -	REVISED - FR 10/03/2023
	DRAWN -	REVISED -
PLOT SCALE = 9,7883' / in.	CHECKED -	REVISED -
PLOT DATE = 10/3/2023	DATE -	REVISED -

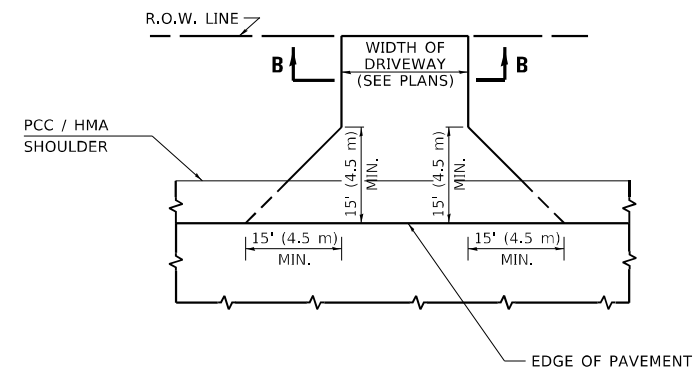
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL-59 FROM LAKE-COOK RD /MAIN ST TO IL-68 (DUNDEE RD) CURB RAMP IMPROVEMENT</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

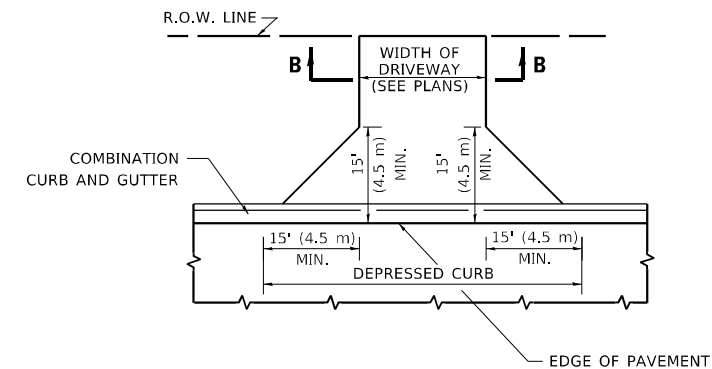
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	29
CONTRACT NO. 62R97				
ILLINOIS		FED. AID PROJECT		



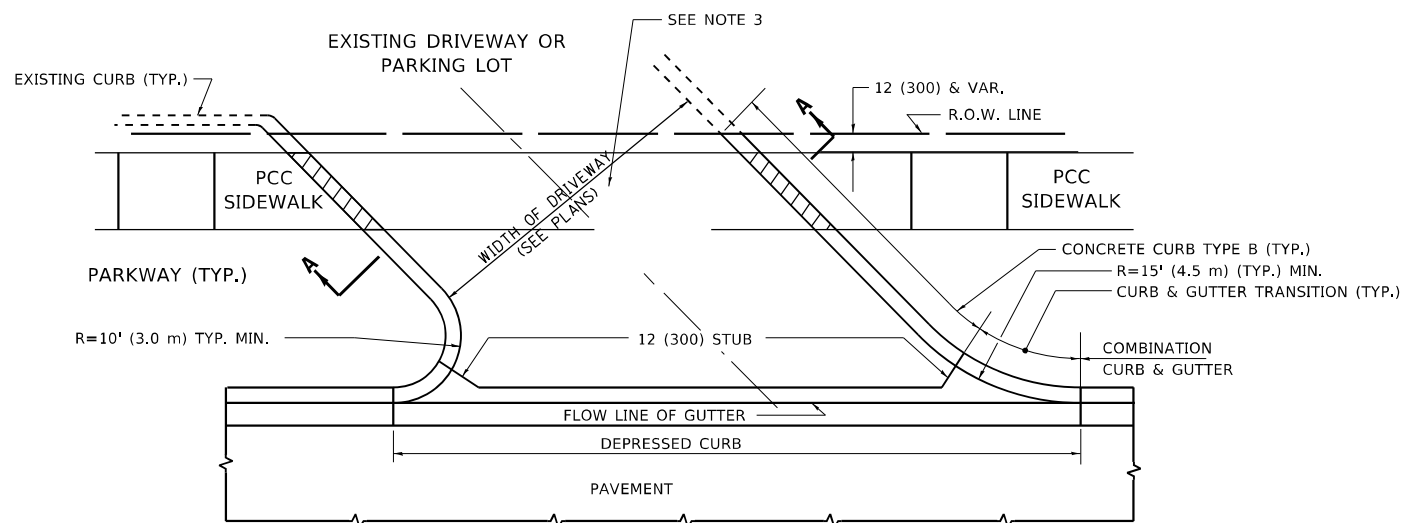
**WITH CONCRETE CURB, TYPE B**



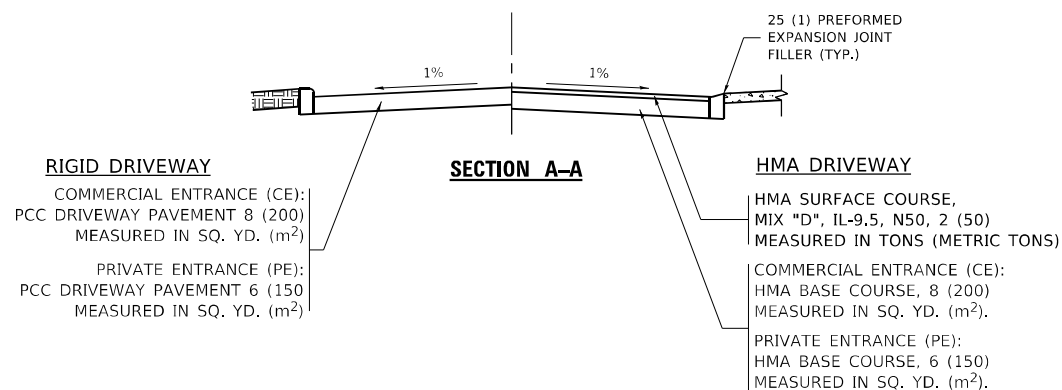
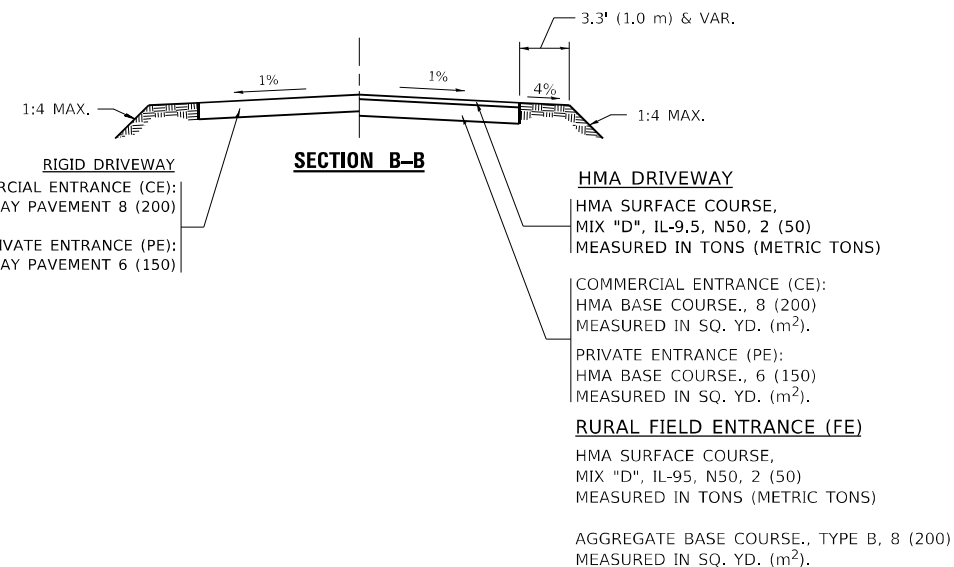
**ADJACENT TO PCC /HMA SHOULDER**



**ADJACENT TO CURB AND GUTTER**



**WITH CONCRETE CURB, TYPE B**



**GENERAL NOTES**

- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
- COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

MODEL: Default  
FILE NAME: p:\projects\paw\benefit\com\paw\DOT\Documents\DOT Office\Drawings\11\Project\1123922\CADD\Drawings\Design\BdFSt.dgn

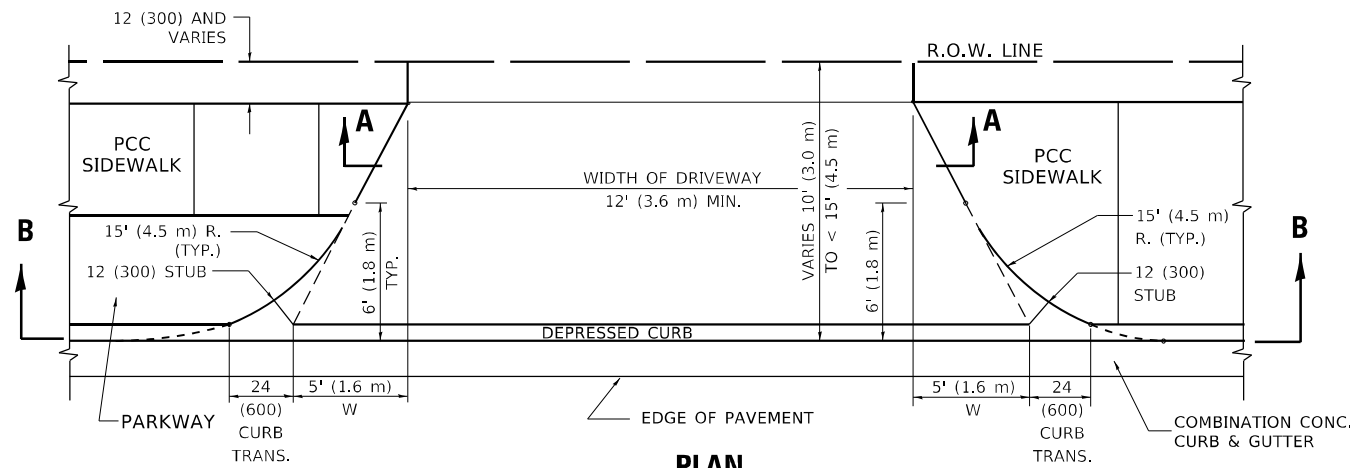
USER NAME = Fabian,RangeI	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 8/24/2023	DATE - 11-04-95	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

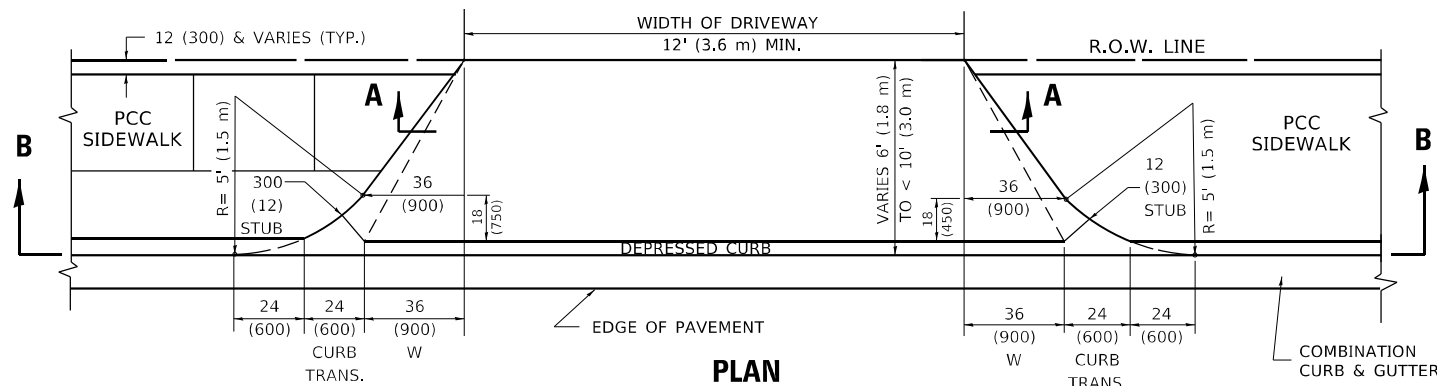
**DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W.  
AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)**

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

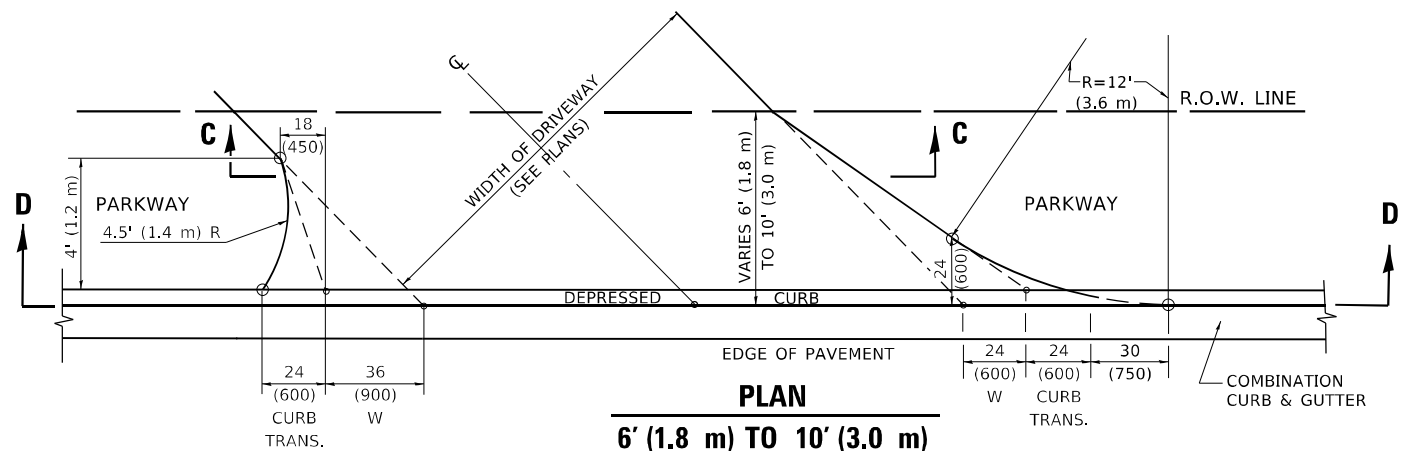
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	30
<b>BD400-01 (BD-01)</b>		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				



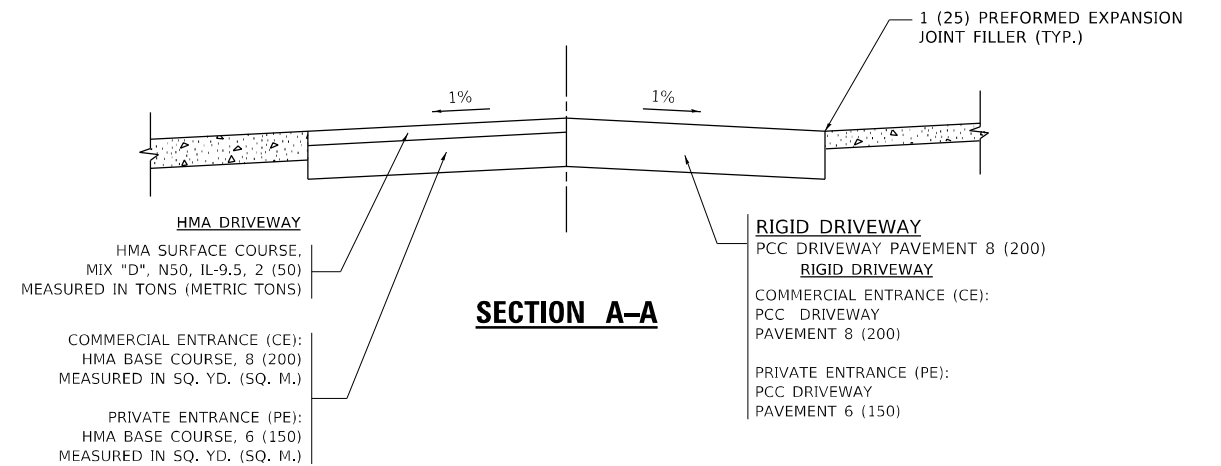
**PLAN**  
10' (3.0 m) TO < 15' (4.5 m)



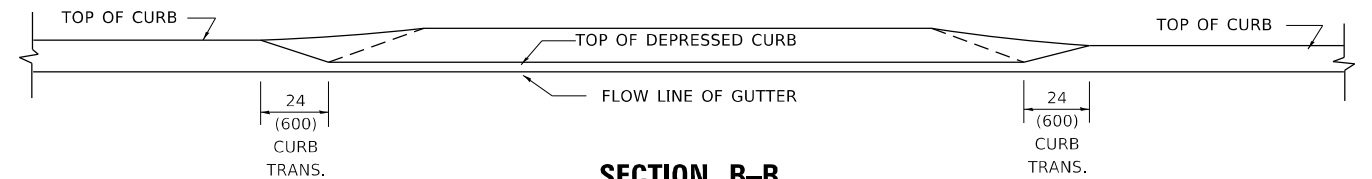
**PLAN**  
6' (1.8 m) TO < 10' (3.0 m)



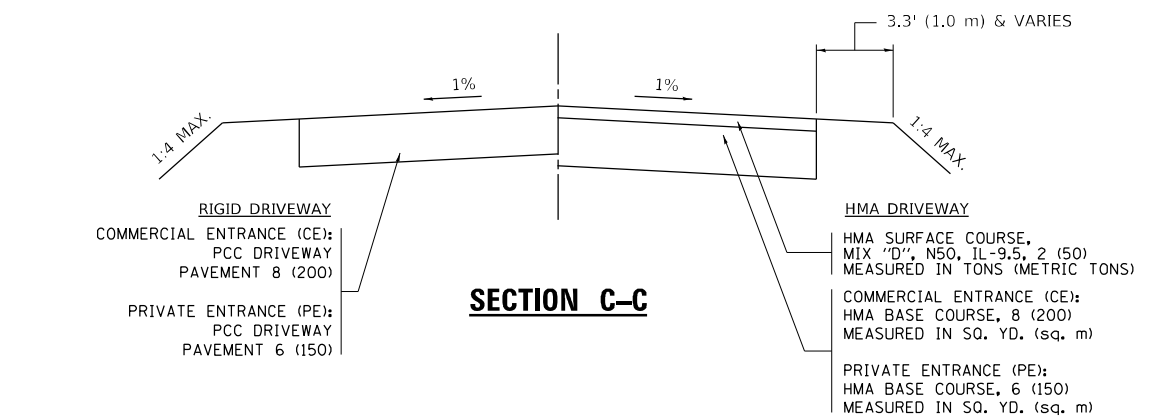
**PLAN**  
6' (1.8 m) TO 10' (3.0 m)



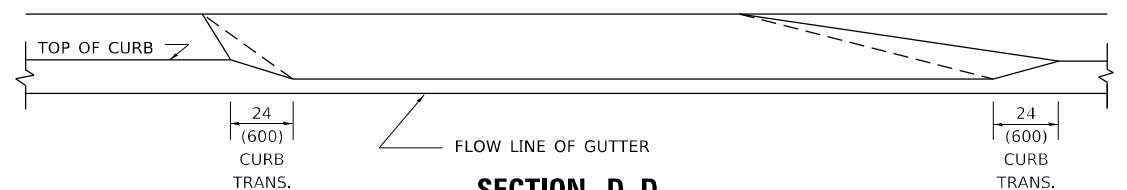
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**GENERAL NOTES**

- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
- WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
- "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

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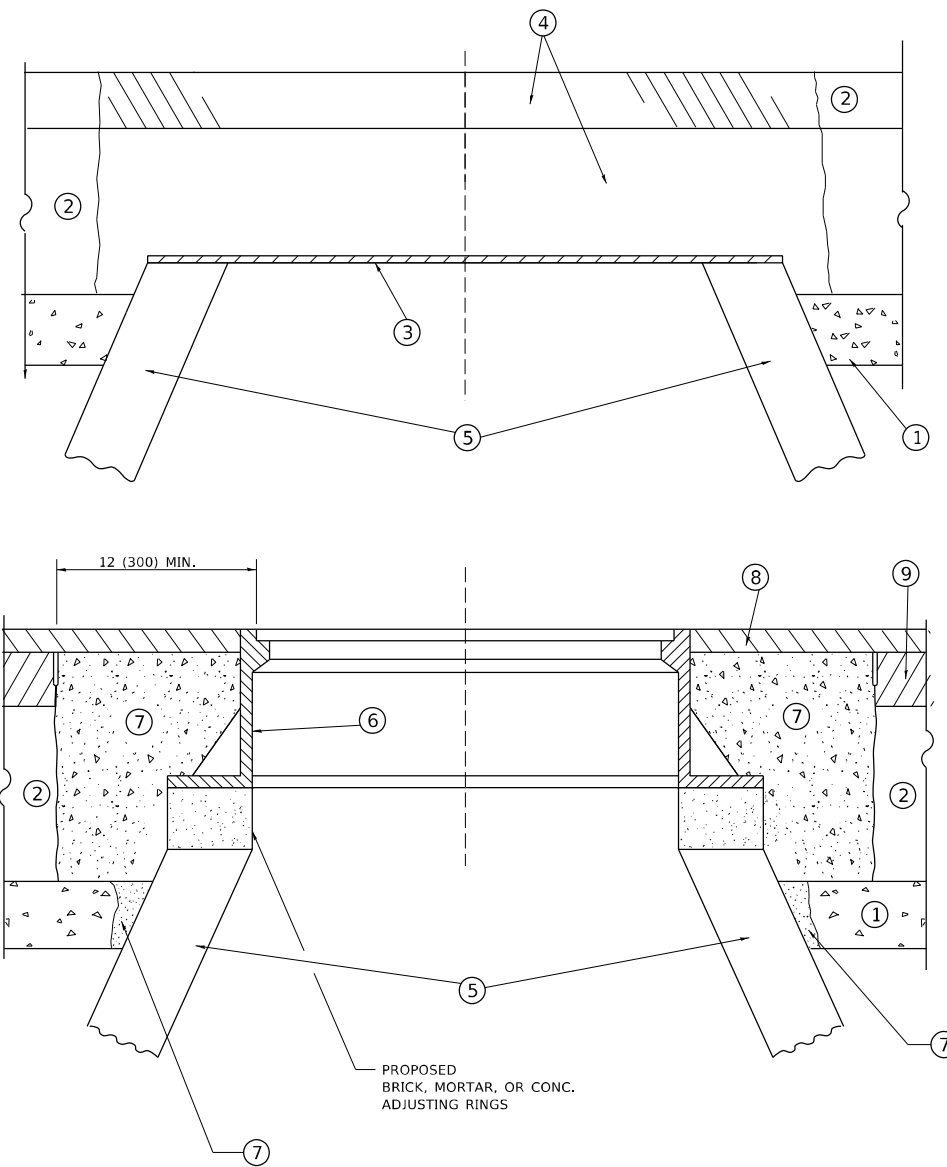
USER NAME = Fabian,Rangel	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-27-19
PLOT DATE = 8/24/2023	DATE - 11-06-95	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS**  
**DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	31
<b>BD400-02 (BD-02)</b>		CONTRACT NO. 62T74		
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. 1 1/2 (40) 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-1 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-1 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.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

USER NAME = Fabian,RangeI	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 8/24/2023	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	32
BD600-03 (BD-08)			CONTRACT NO. 62T74	
ILLINOIS		FED. AID PROJECT		

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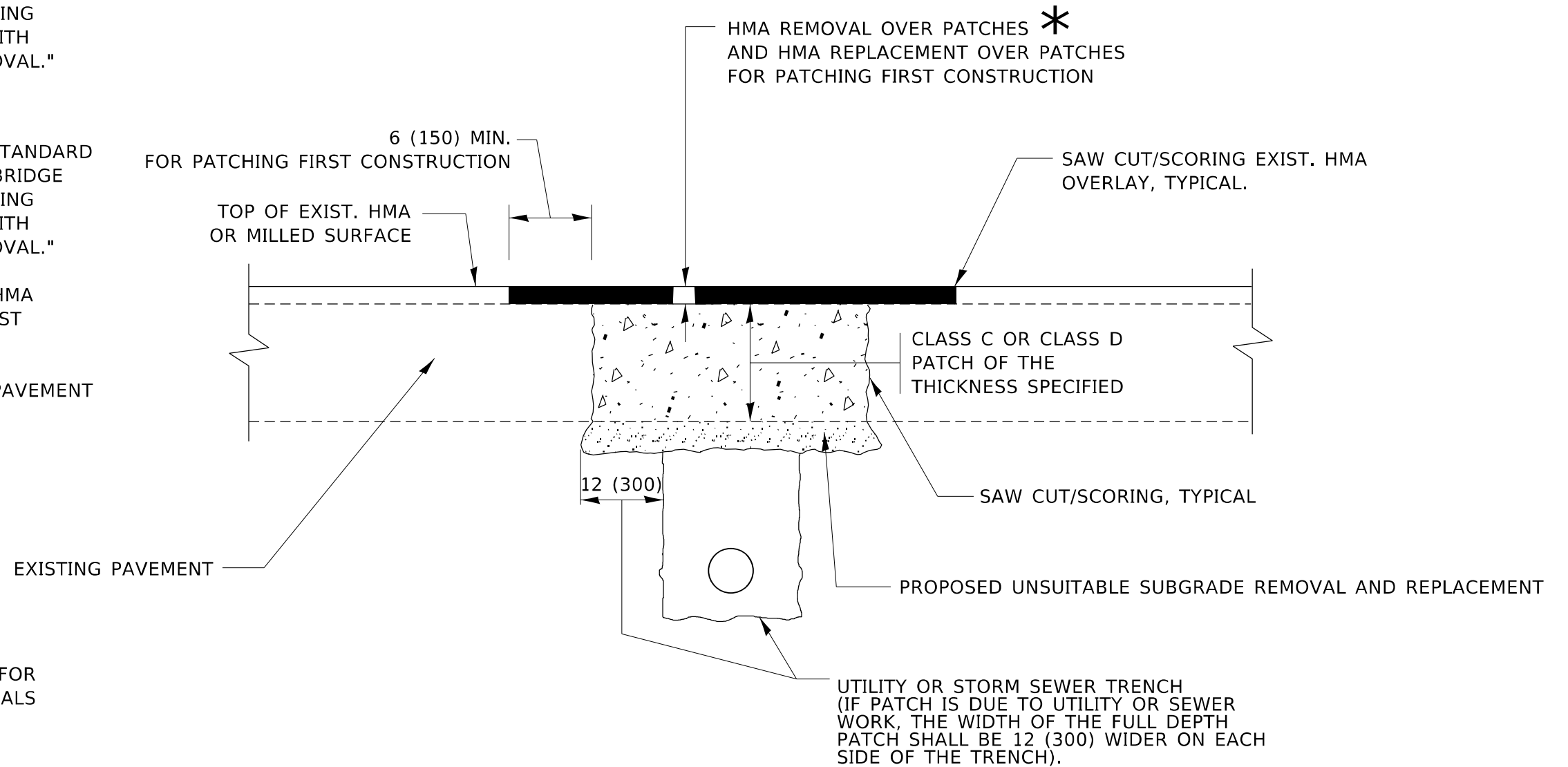


**METHOD OF MEASUREMENT**

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.



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**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 4½ 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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USER NAME = Fabian,Rangel	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 09-04-07
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08
PLOT DATE = 8/24/2023	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

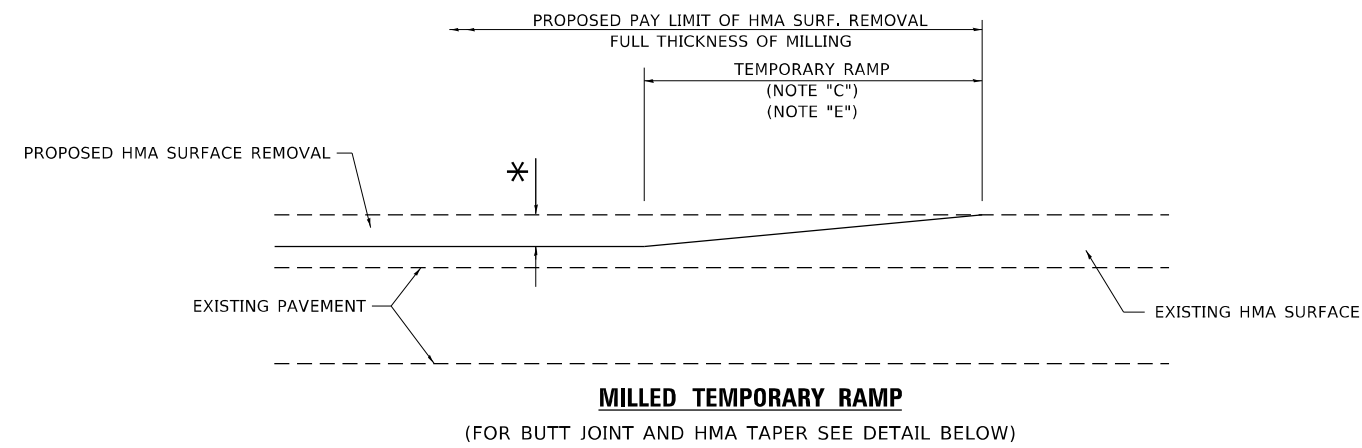
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR  
HMA SURFACED PAVEMENT**

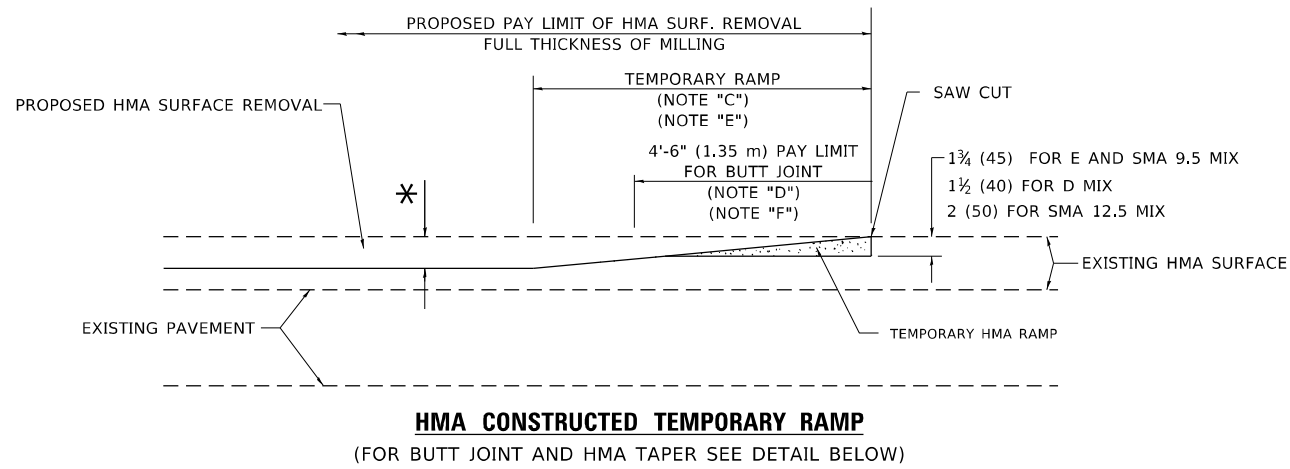
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	33
<b>BD400-04 (BD-22)</b>		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				

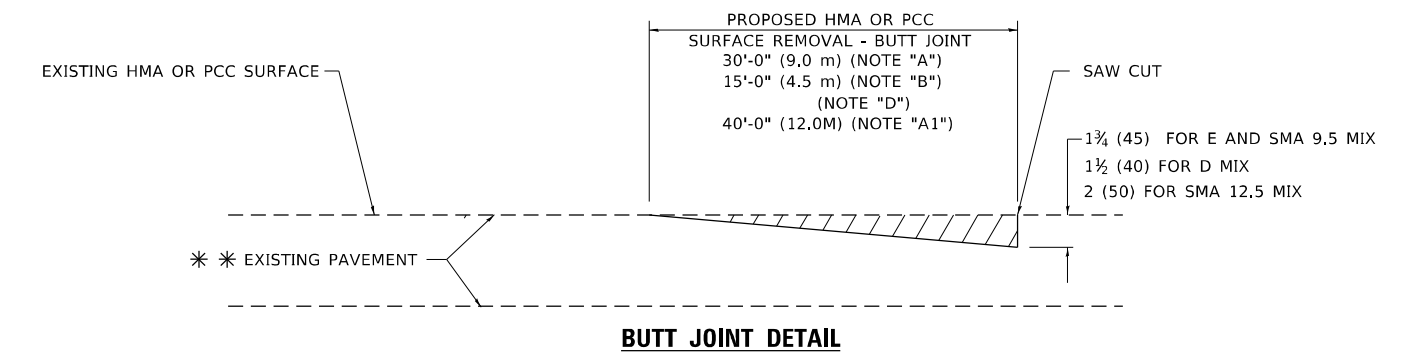




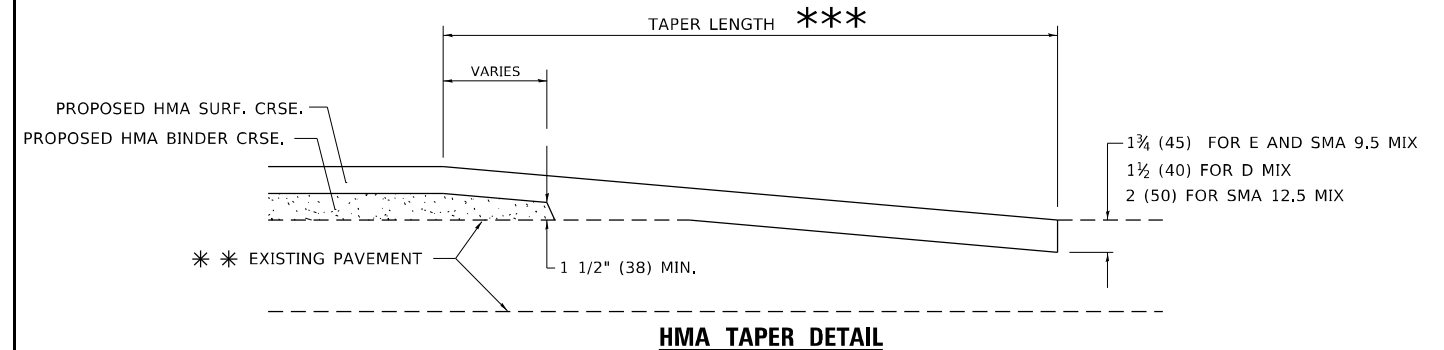
**OPTION 1**



**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.

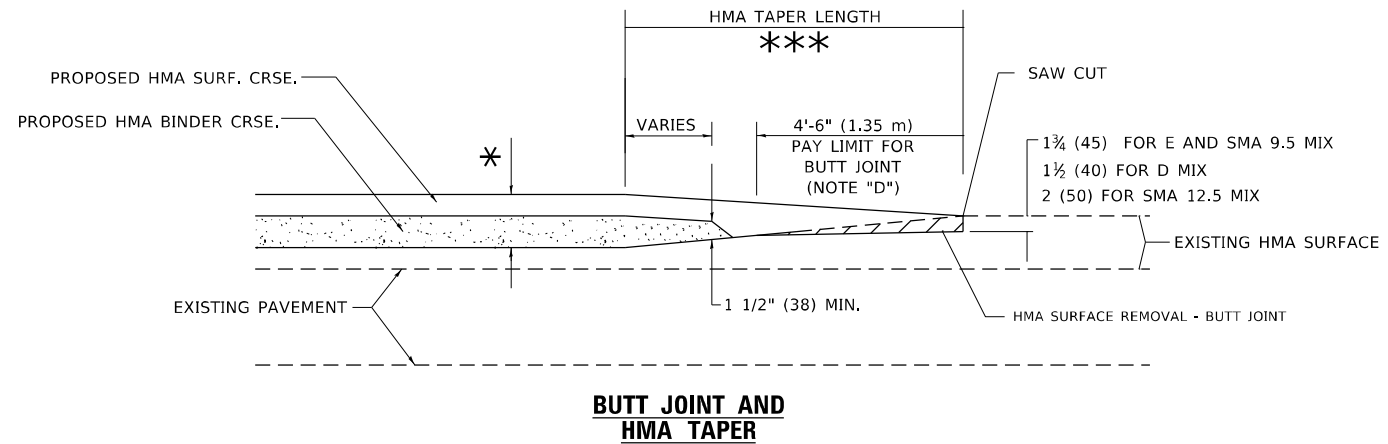
**GENERAL NOTES**

- 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.



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

USER NAME = Fabian,Range1	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 8/24/2023	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

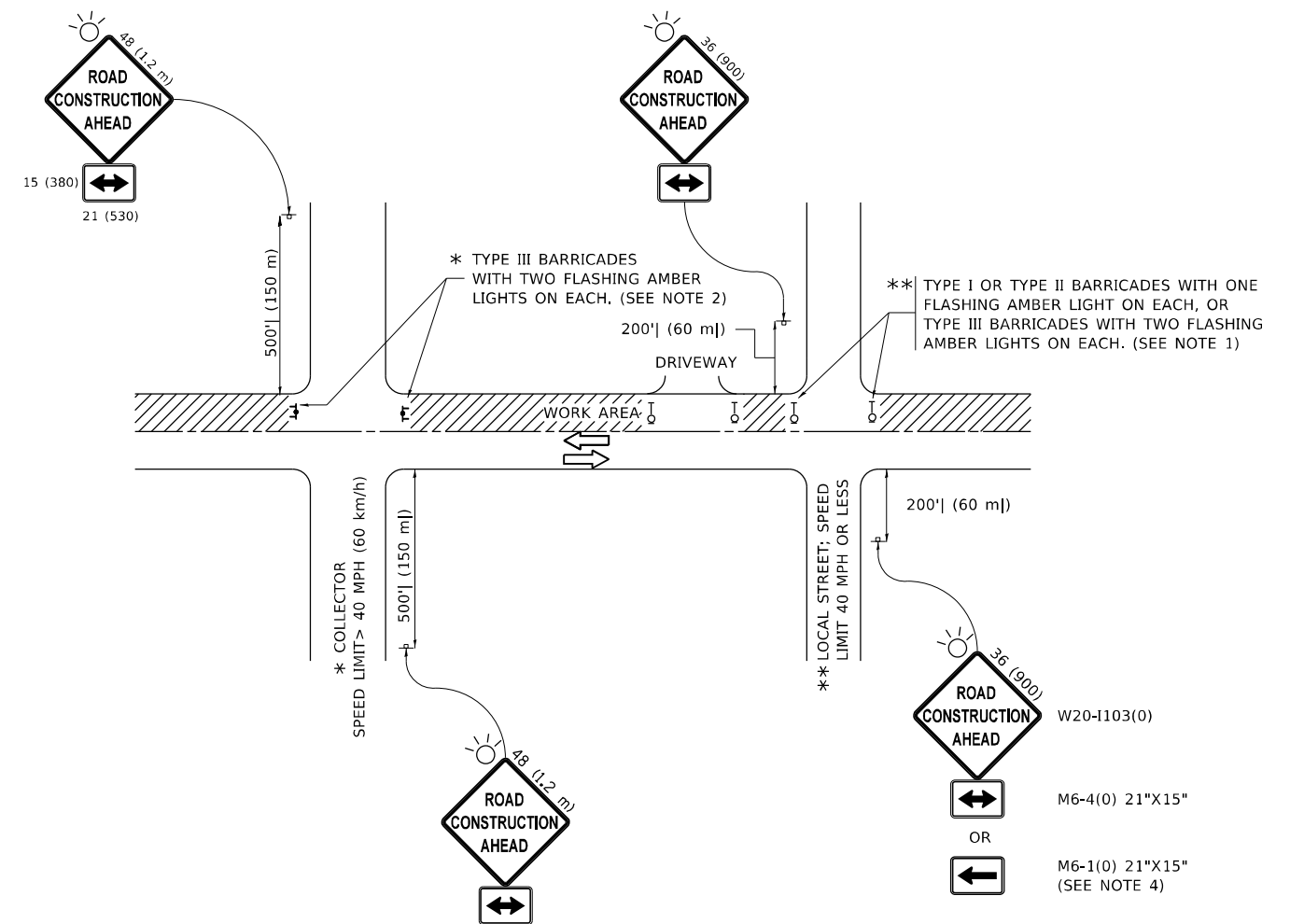
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND  
HMA TAPER DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	35
BD400-05 BD-32			CONTRACT NO. 62T74	
ILLINOIS FED. AID PROJECT				

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**NOTES:**

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

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

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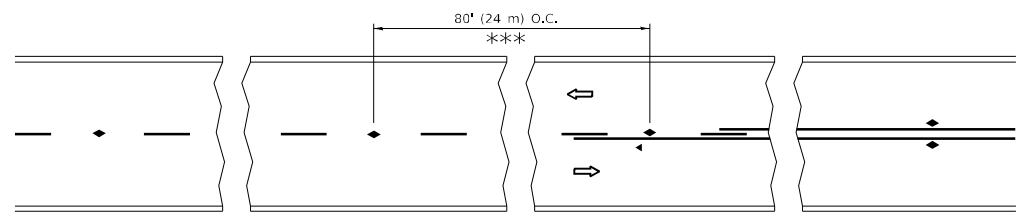
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PLOT DATE = 8/24/2023	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

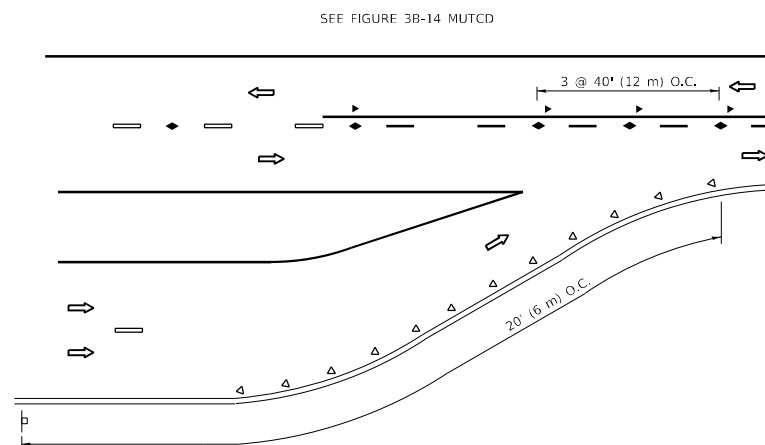
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			CONTRACT NO. 62T74	
ILLINOIS FED. AID PROJECT				

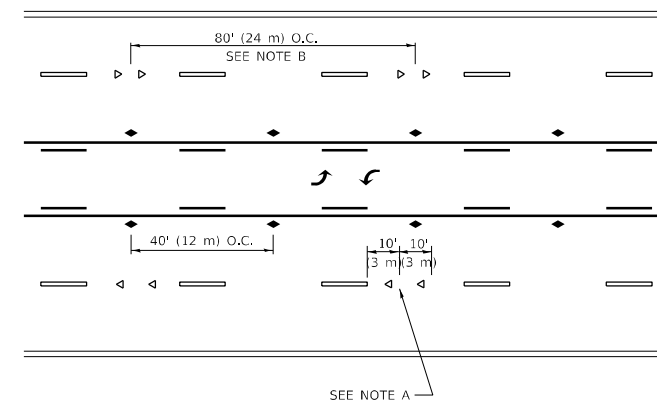


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

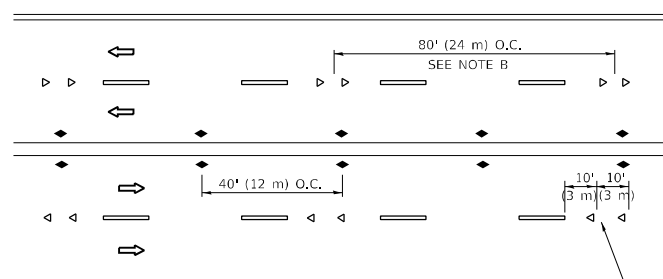
### TWO-LANE/TWO-WAY



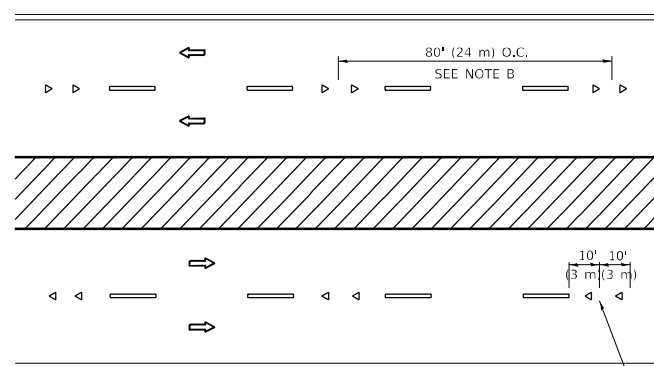
### LANE REDUCTION TRANSITION



### 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

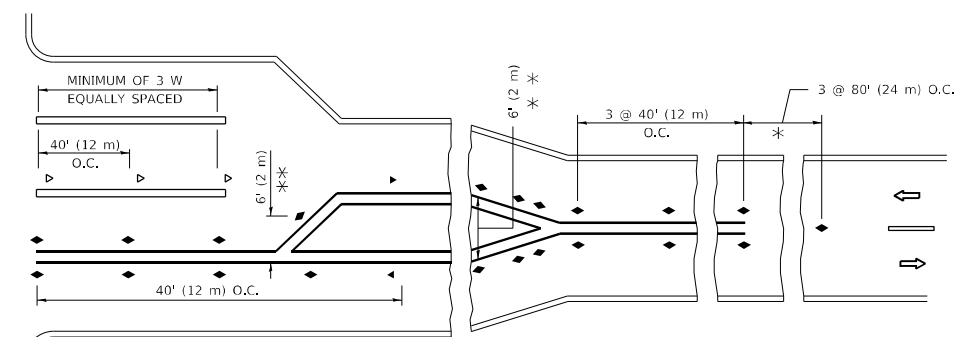
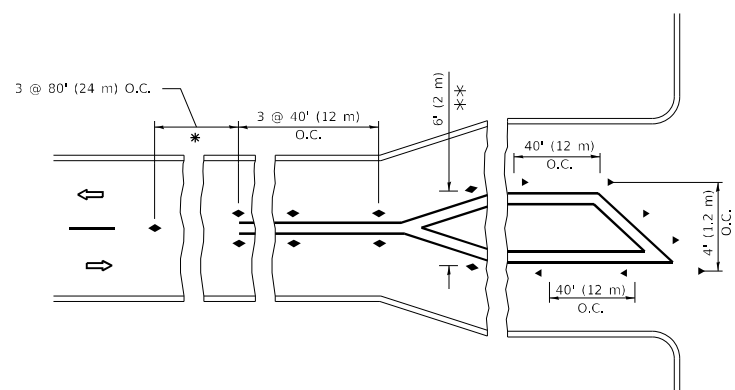
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

### 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.

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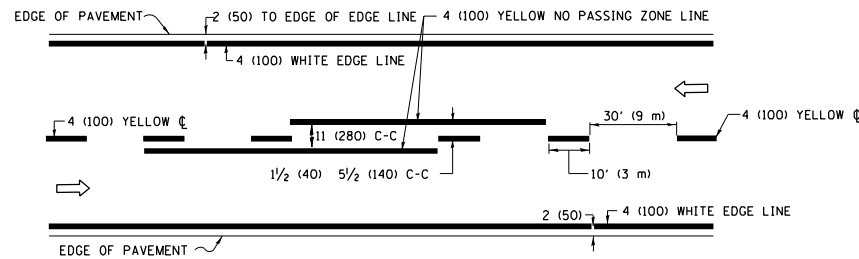
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PLOT DATE = 8/24/2023	CHECKED -	REVISED - C. JUCIUS 09-09-09
	DATE -	REVISED - C. JUCIUS 07-01-13

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

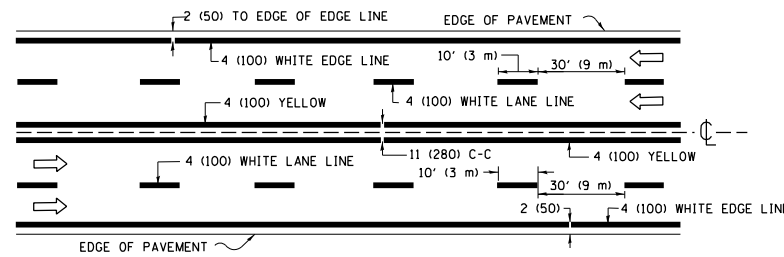
TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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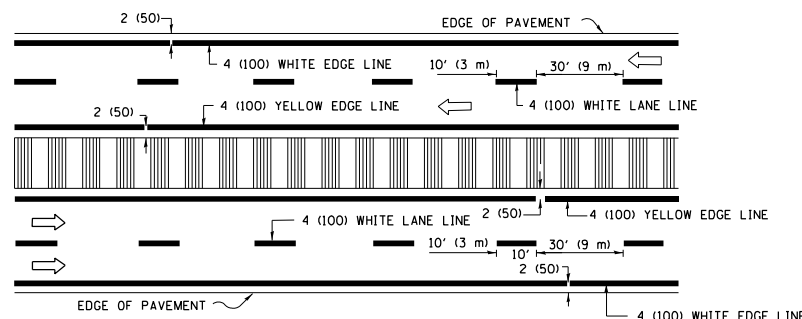
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	37
TC-11		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

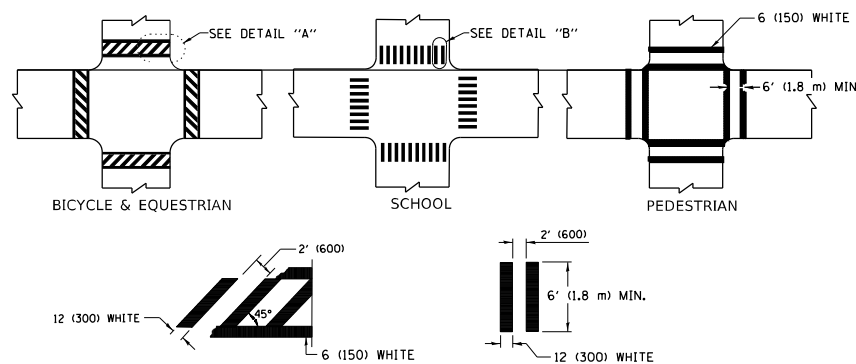


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

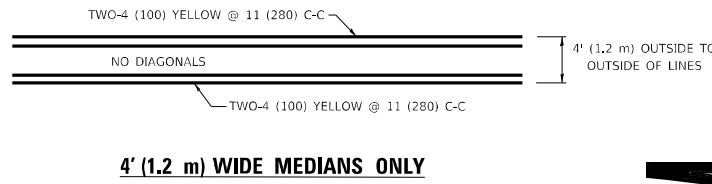


**DETAIL "A"**

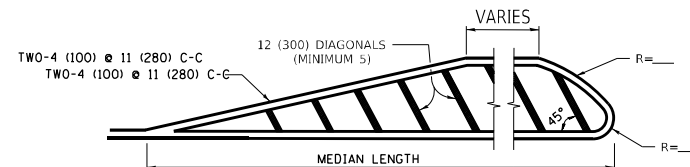
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

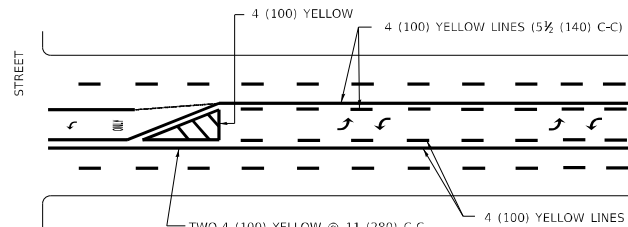


**4' (1.2 m) WIDE MEDIANS ONLY**



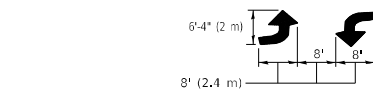
**MEDIANS OVER 4' (1.2 m) WIDE**

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



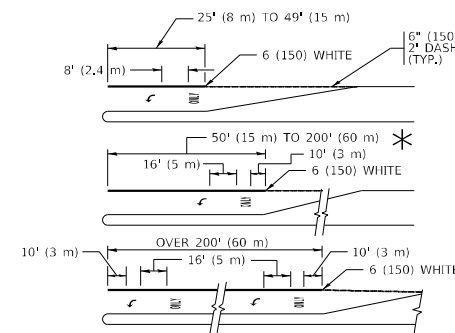
**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**



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

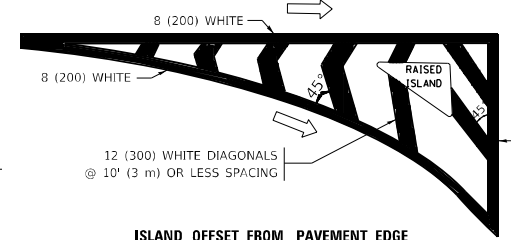
**TYPICAL PAINTED MEDIAN MARKING**



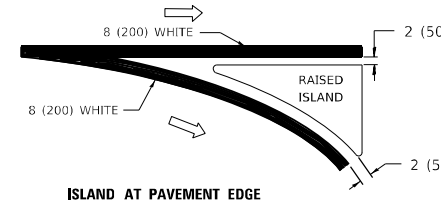
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

**TYPICAL TURN LANE MARKING**

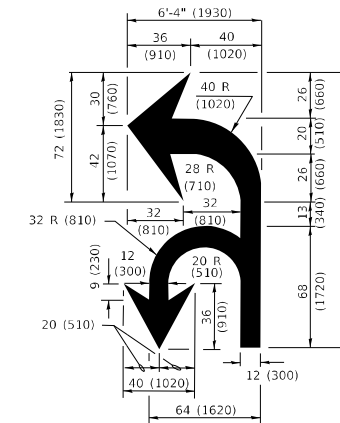


**ISLAND OFFSET FROM PAVEMENT EDGE**

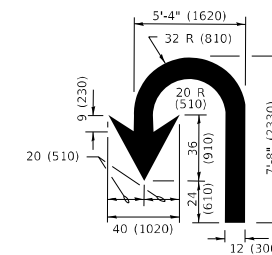


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**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.

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

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 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 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.

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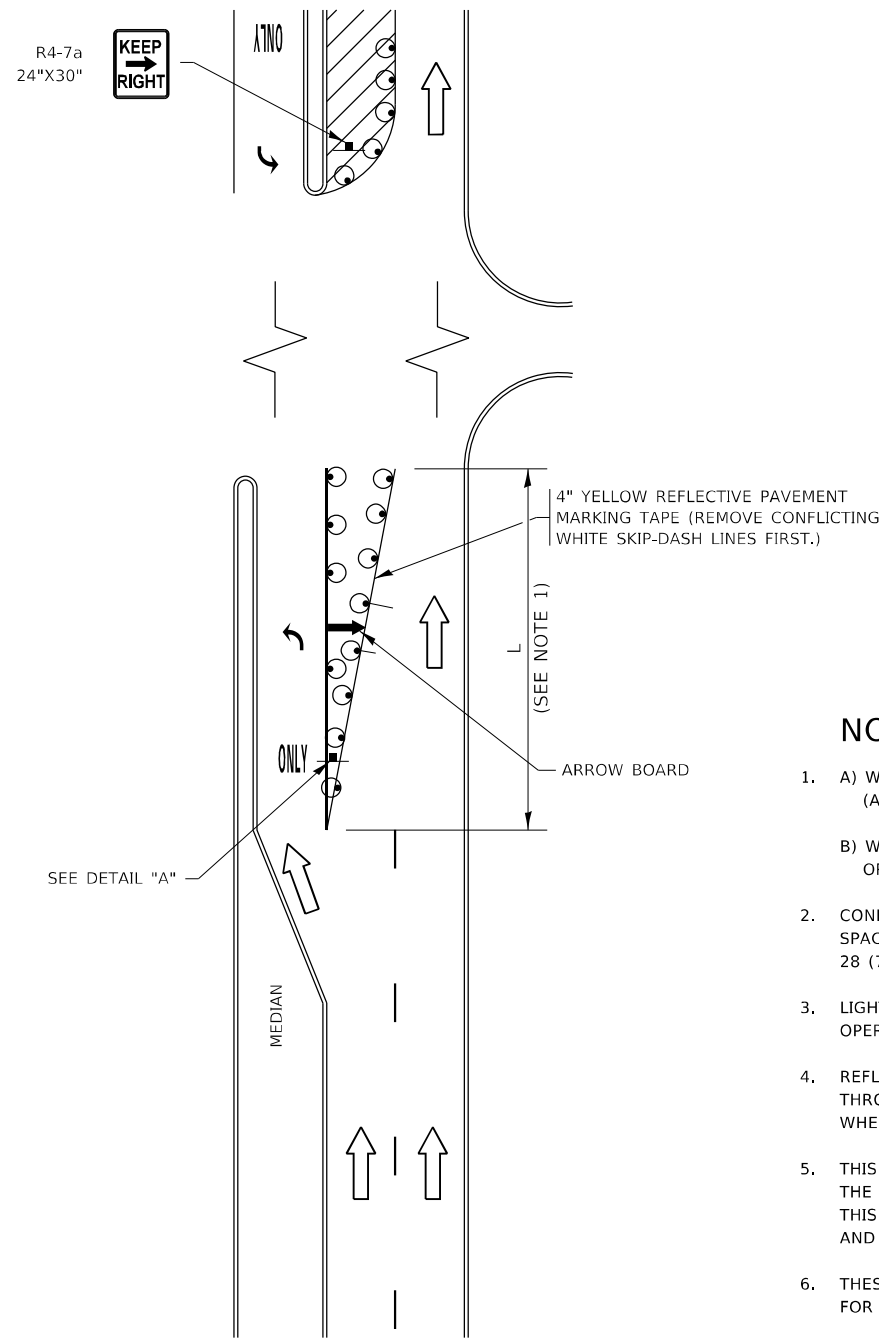
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PLOT DATE = 8/24/2023	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>DISTRICT ONE</b>	
<b>TYPICAL PAVEMENT MARKINGS</b>	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

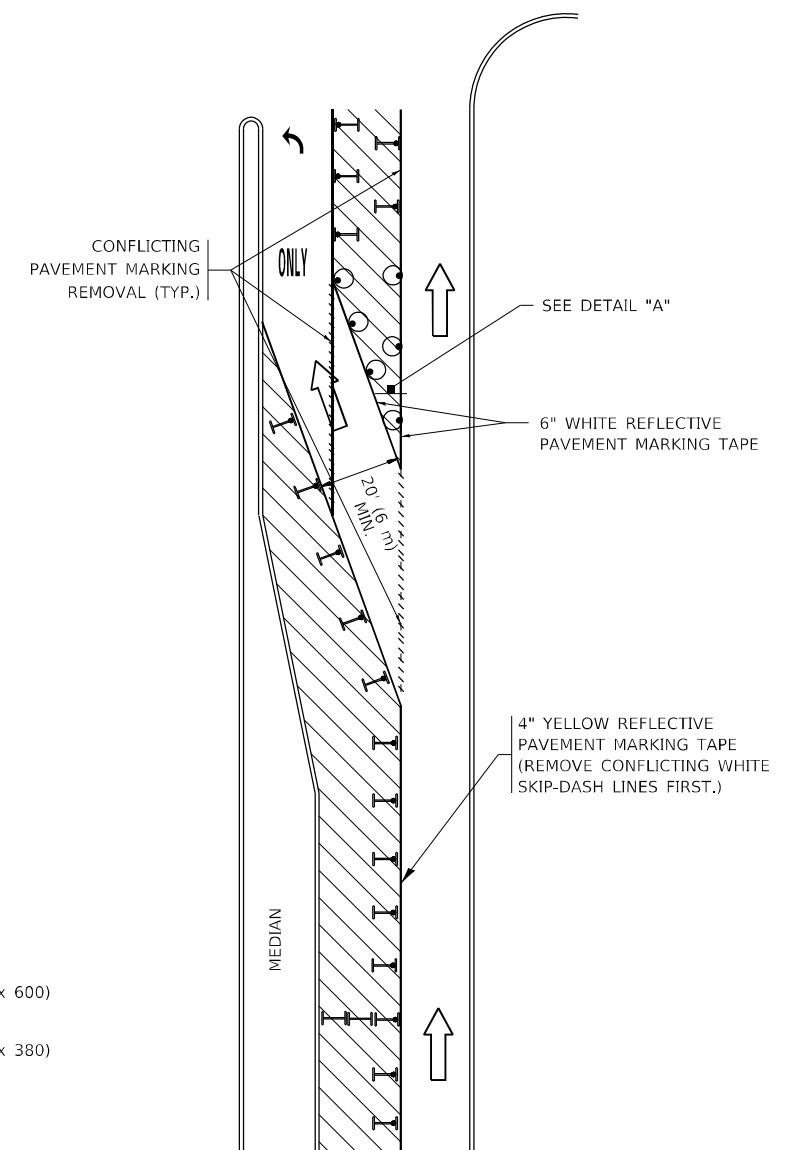
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	38
<b>TC-13</b>		CONTRACT NO. 62T74		
		ILLINOIS FED. AID PROJECT		

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



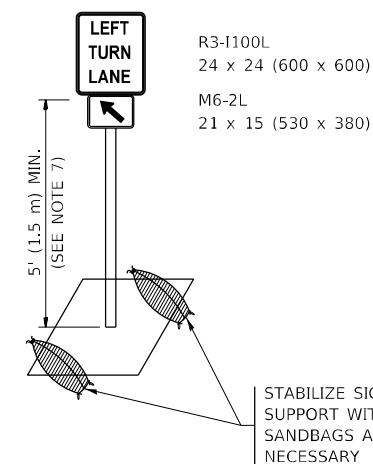
**FIGURE 2**

### 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 ≤ 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.

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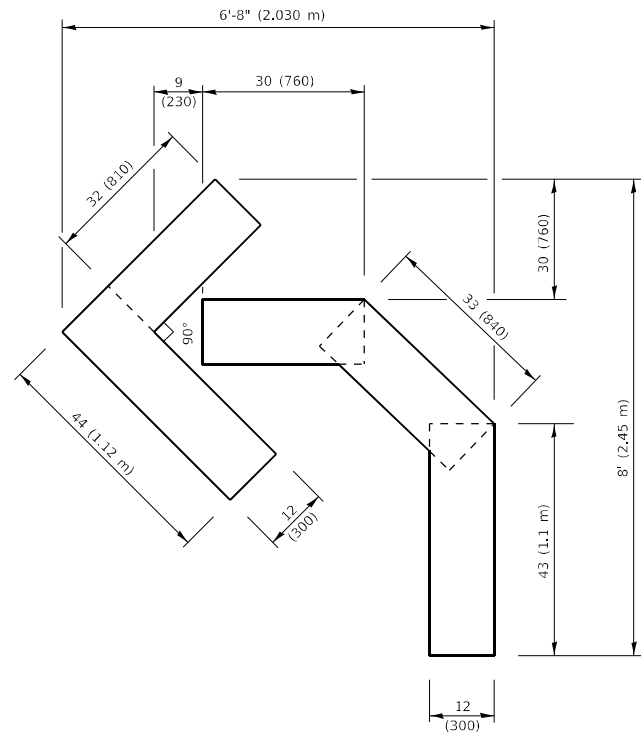
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PLOT SCALE = 100,0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 8/24/2023	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

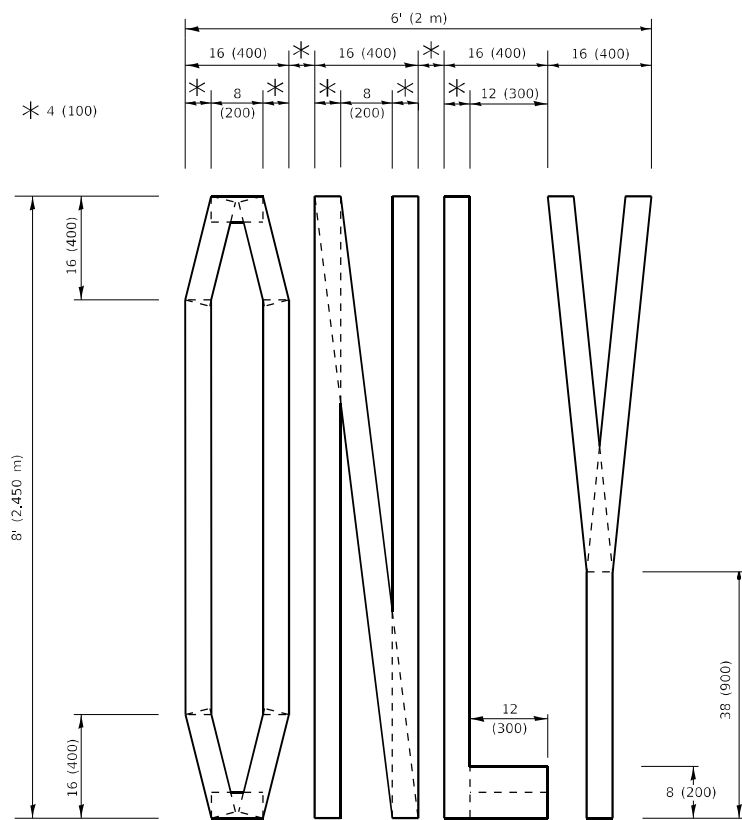
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				



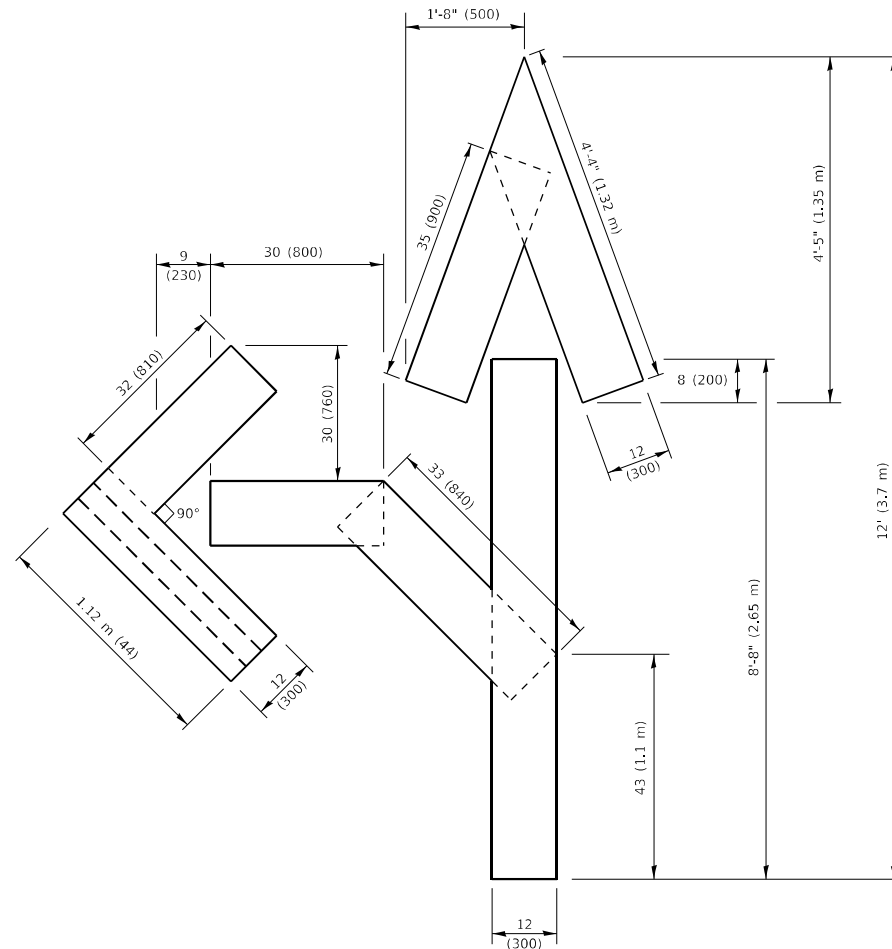
**QUANTITY**

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)

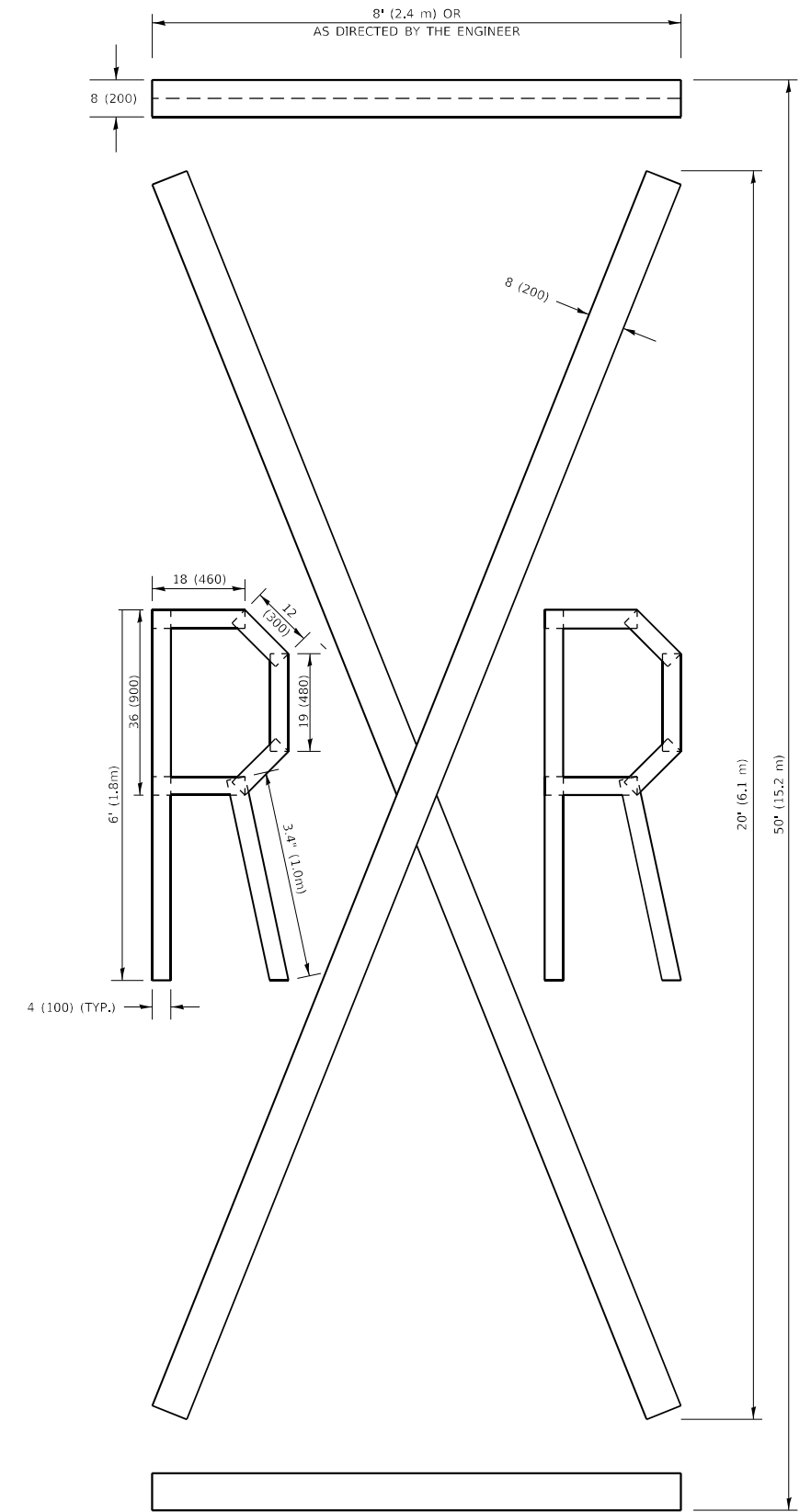


**QUANTITY**

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.

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	DRAWN -	REVISD - E. GOMEZ 08-28-00
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PLOT DATE = 8/24/2023	DATE - 09-18-94	REVISD - A. SCHUETZE 09-15-16

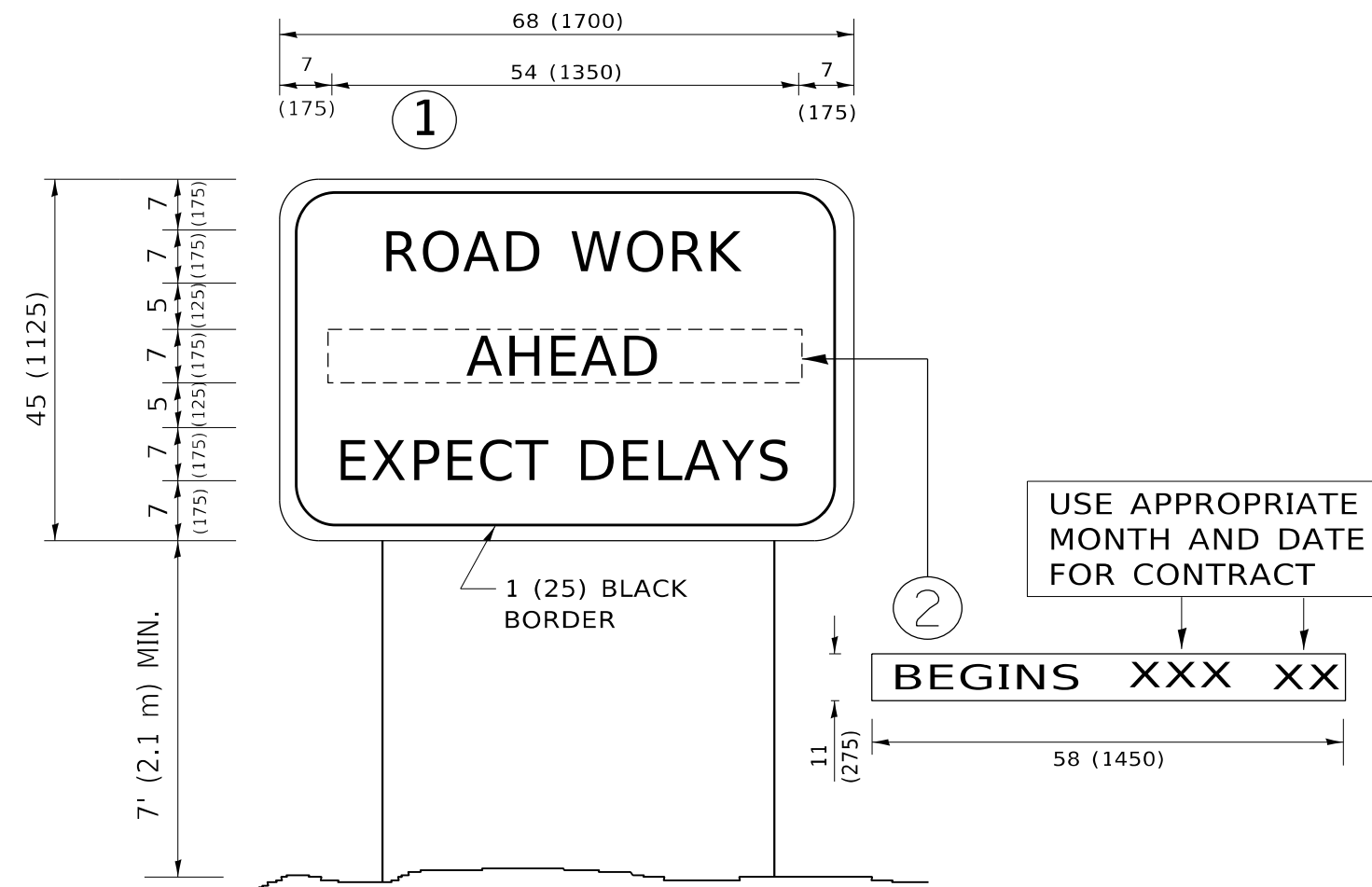
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	40
<b>TC-16</b>		CONTRACT NO. 62T74		
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.

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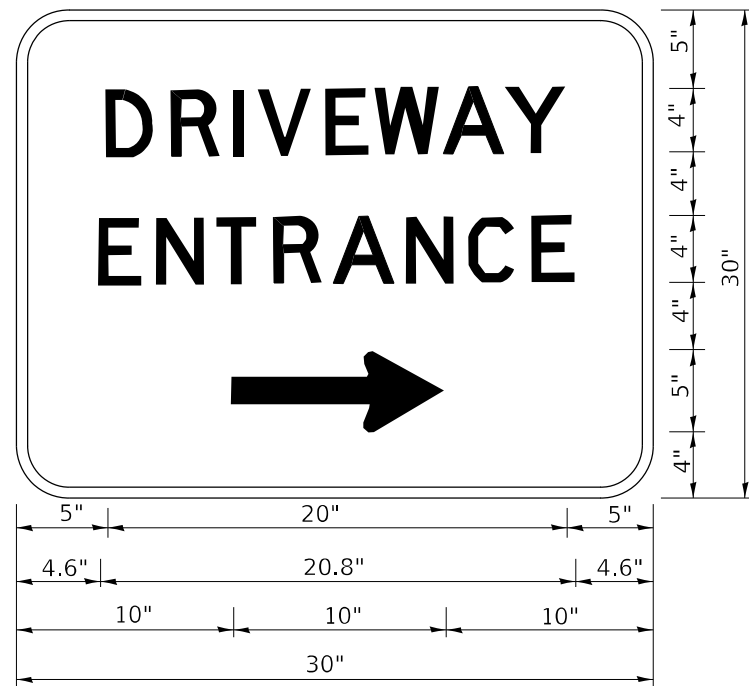
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PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 8/24/2023	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	41
<b>TC-22</b>			CONTRACT NO. 62T74	
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".

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USER NAME = Fabian,RangeI	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/24/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

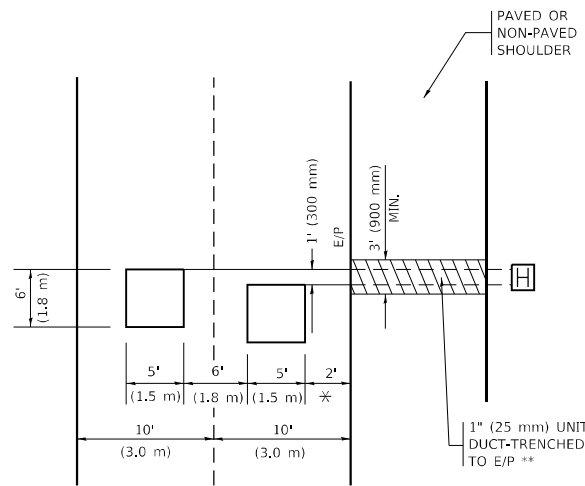
**DRIVEWAY ENTRANCE SIGNING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	42
<b>TC-26</b>		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				

**LOOPS NEXT TO SHOULDERS**

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

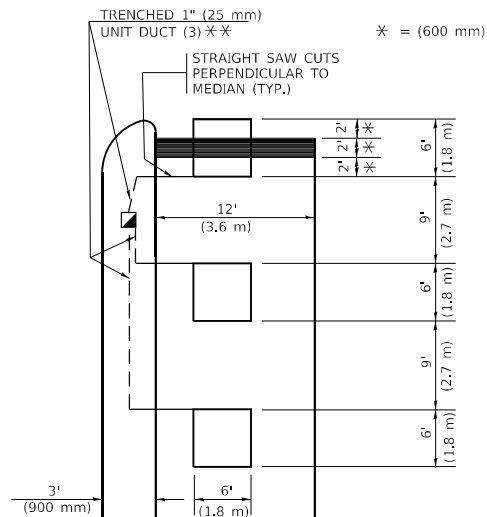


\* = (600 mm)

\*\* 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.

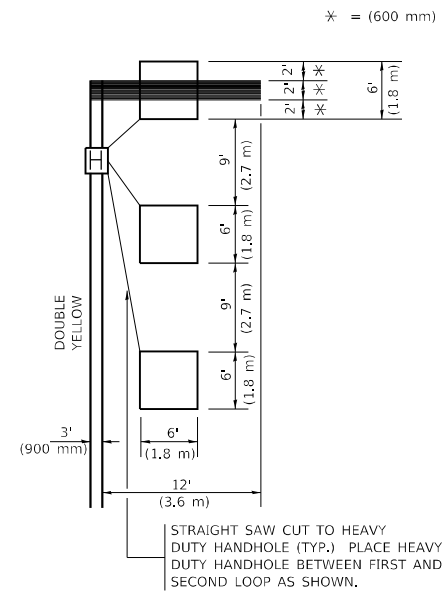


\* = (600 mm)

\*\* 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

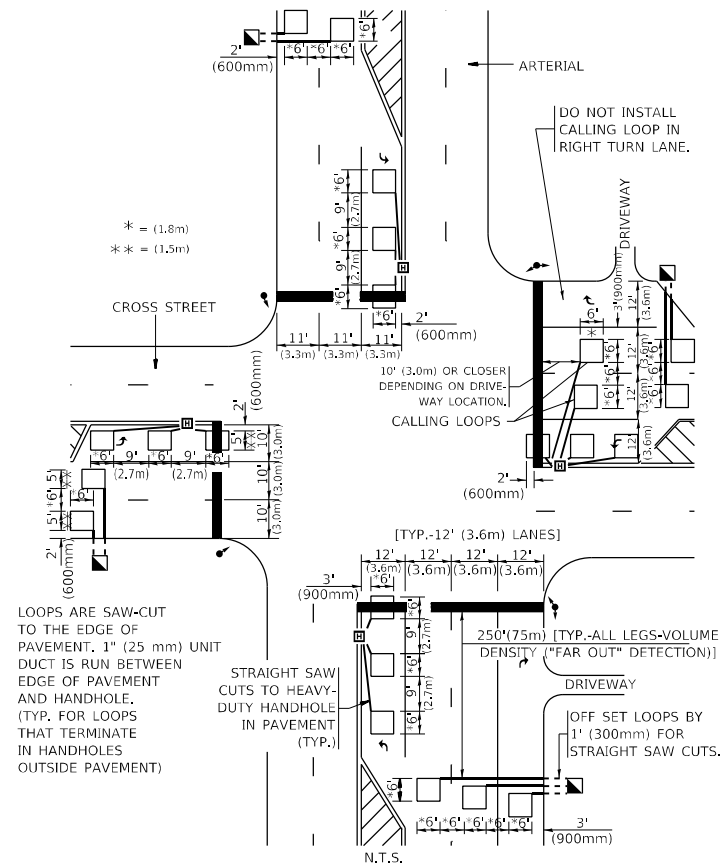
**LEFT TURN LANES WITHOUT MEDIANS**  
**VOLUME DENSITY ("FAR OUT" DETECTION)**  
**ON SAME APPROACH**  
**(PROTECTED / PERMITTED LEFT TURN PHASING)**



\* = (600 mm)

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

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



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

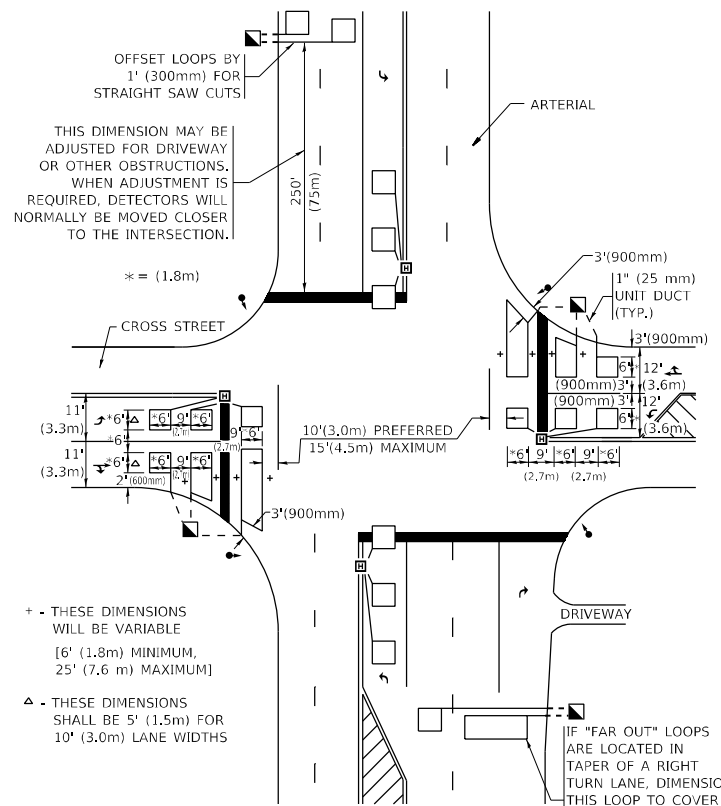
LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

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

[TYP.-12' (3.6m) LANES]  
 250' (75m) [TYP.-ALL LEGS-VOLUME DENSITY ("FAR OUT" DETECTION)]  
 DRIVEWAY  
 OFF SET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS.

**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.

\* = (1.8m)

+ THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]  
 Δ 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.

**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 SEPARATLY. 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.

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/24/2023	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

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

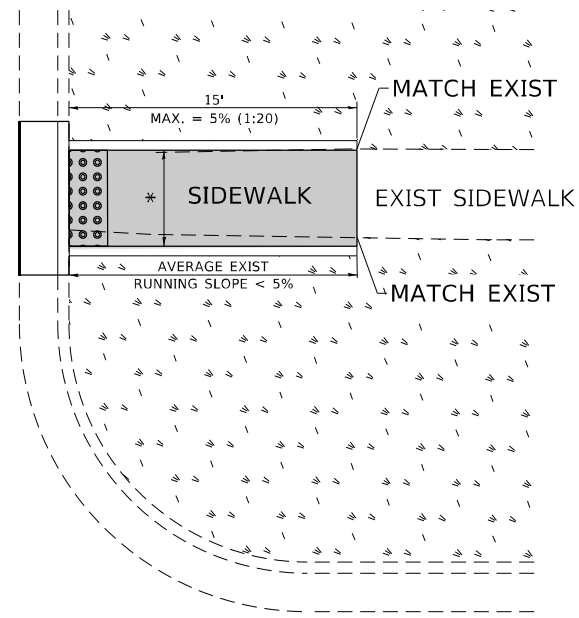
**DISTRICT 1 - DETECTOR LOOP INSTALLATION**  
**DETAILS FOR ROADWAY RESURFACING**

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

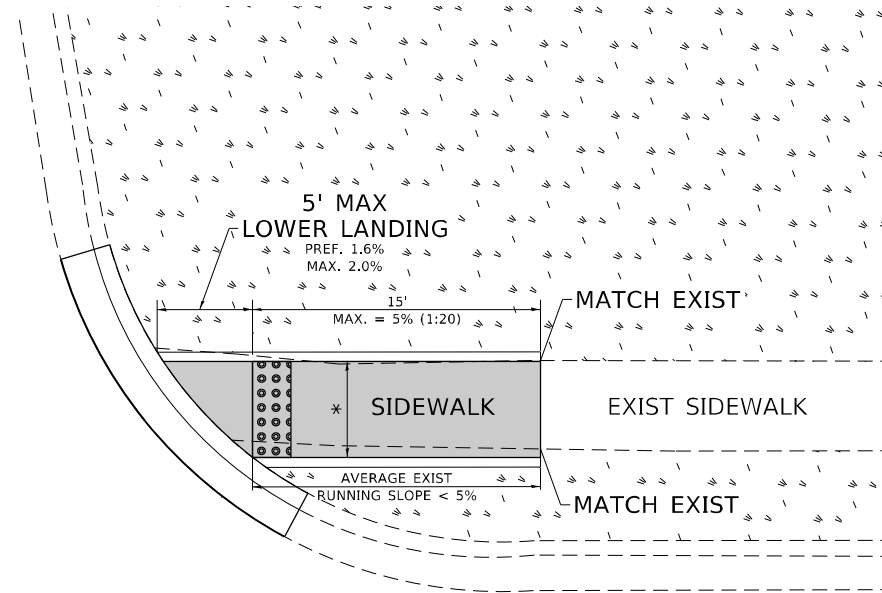
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TS-07		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				

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

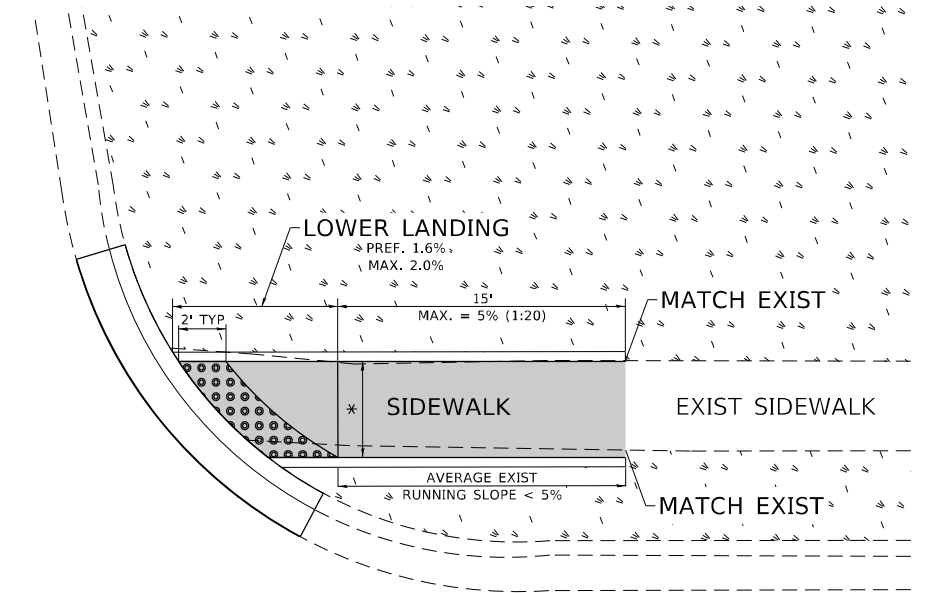
**PD-01A**



**PD-01B**



**PD-01C**



**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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PLOT DATE = 8/24/2023	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

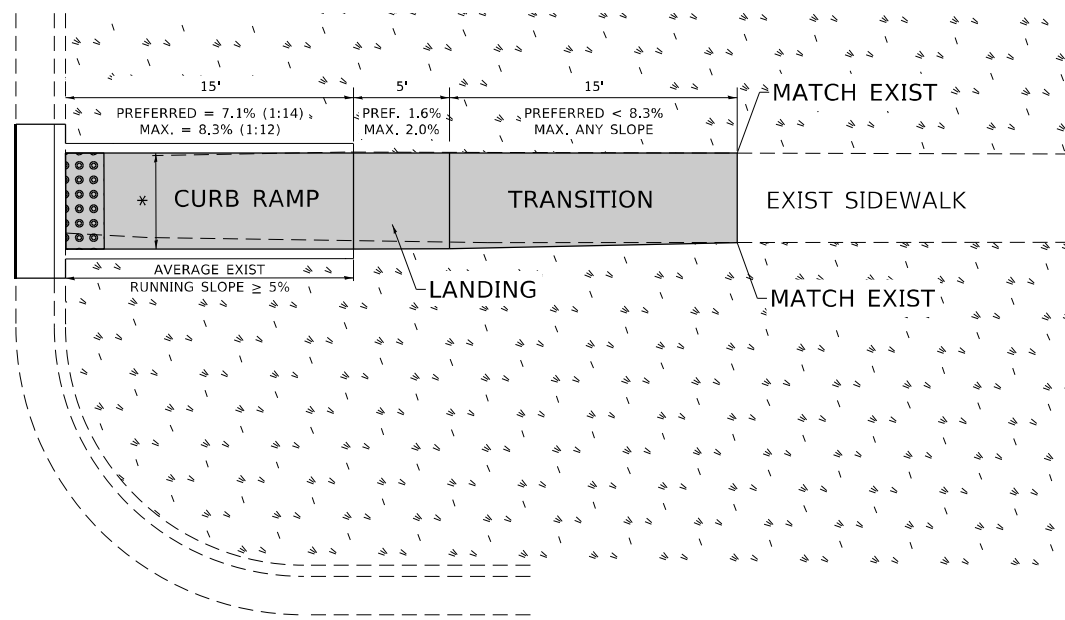
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
(PD-01)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

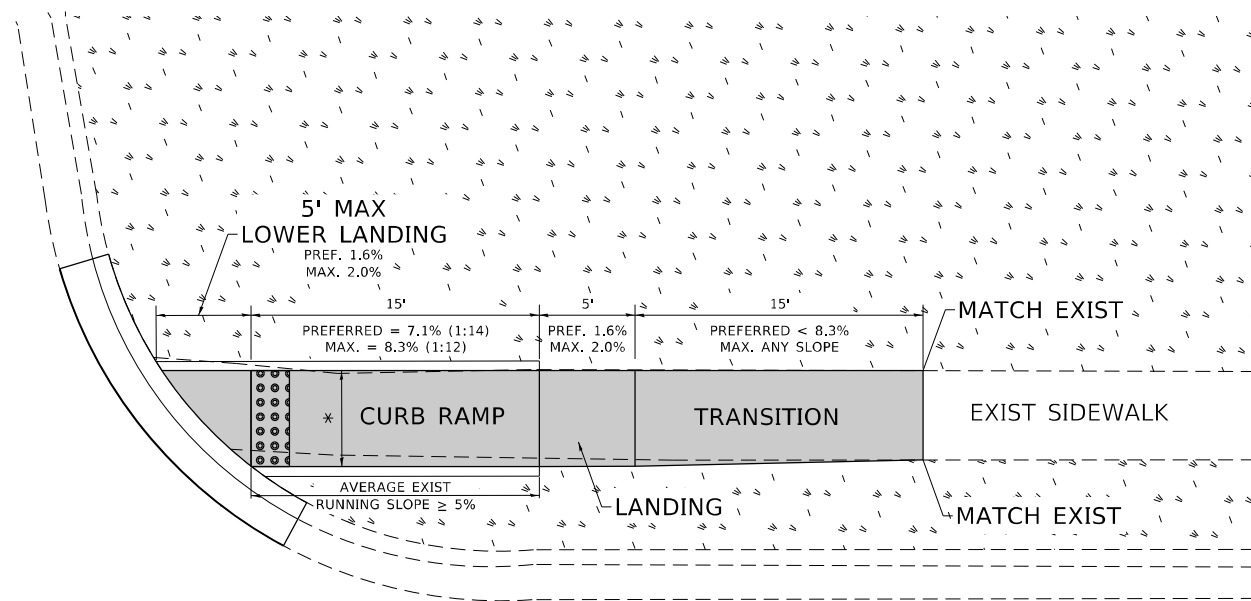
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338	FAP 0338 22 RS2	COOK	50	44
<b>TC-13</b>			CONTRACT NO. 62T74	
ILLINOIS FED. AID PROJECT				

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

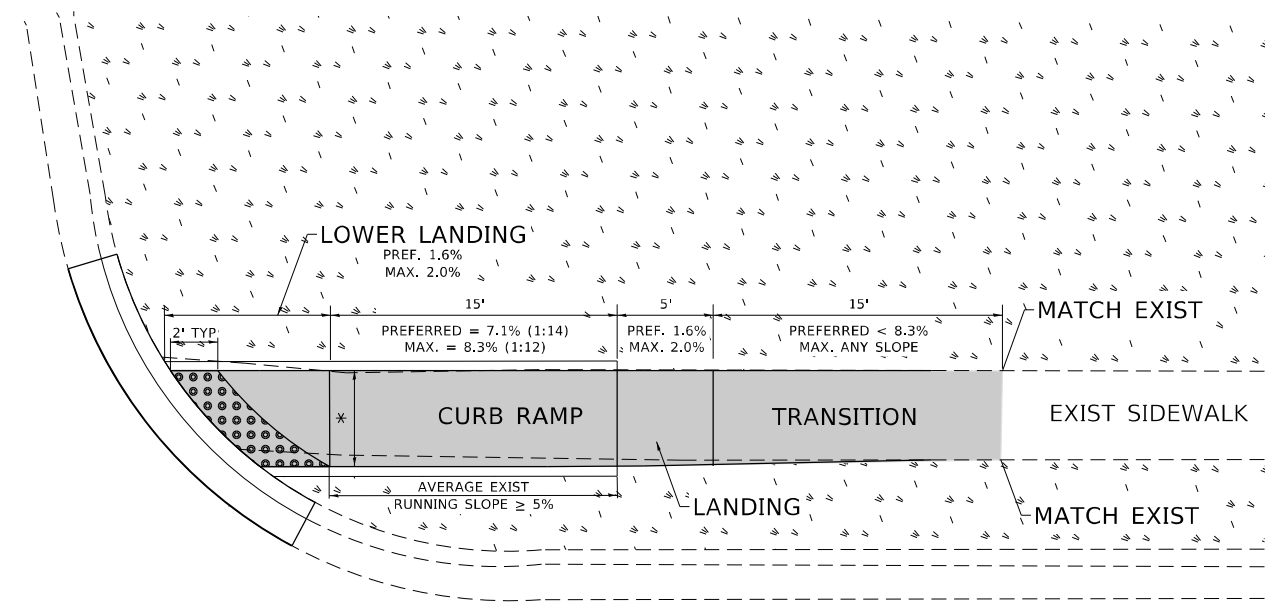
**PD-02A**



**PD-02B**



**PD-02C**



**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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PLOT DATE = 8/24/2023	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

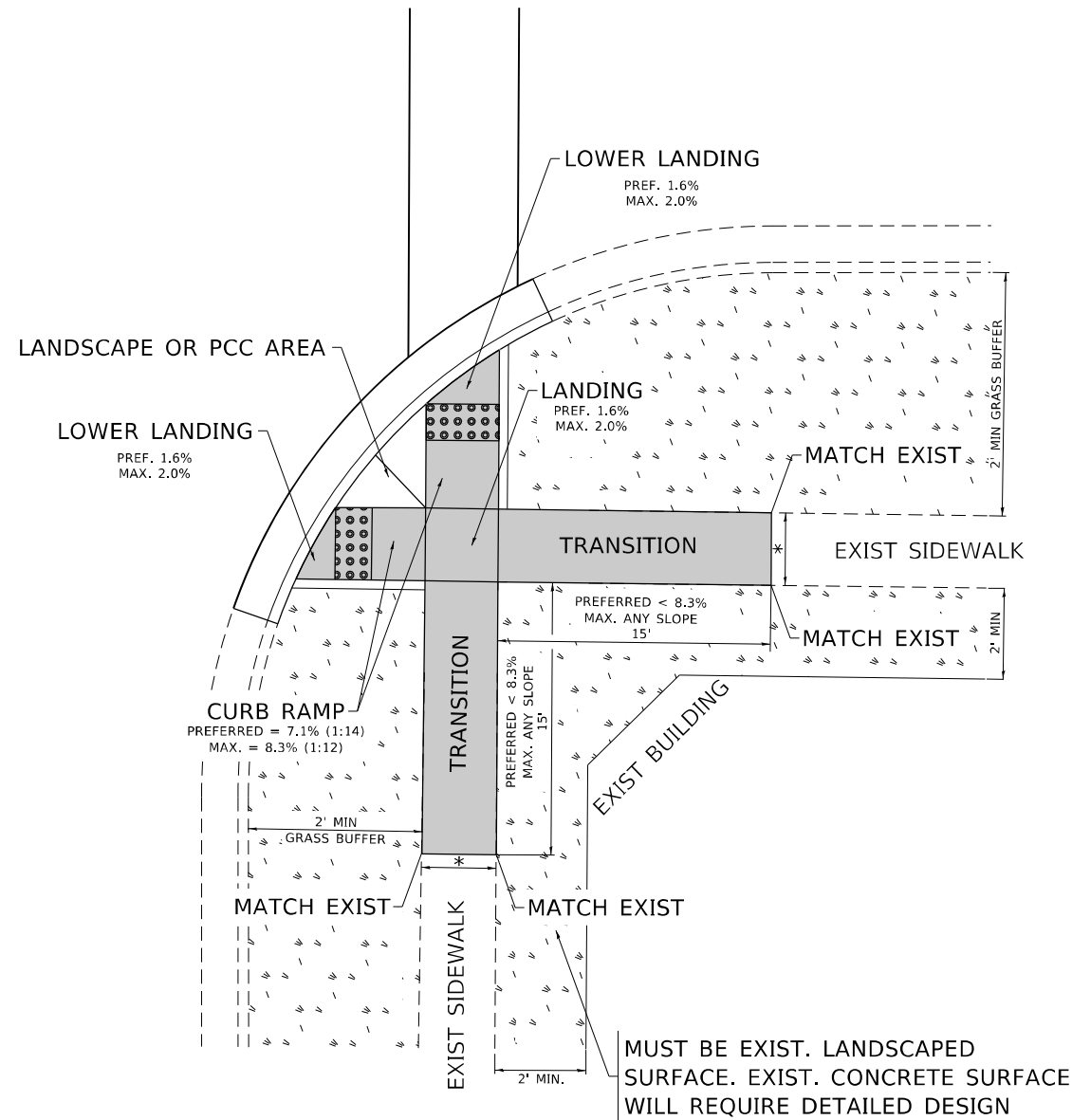
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS  
(PD-02)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

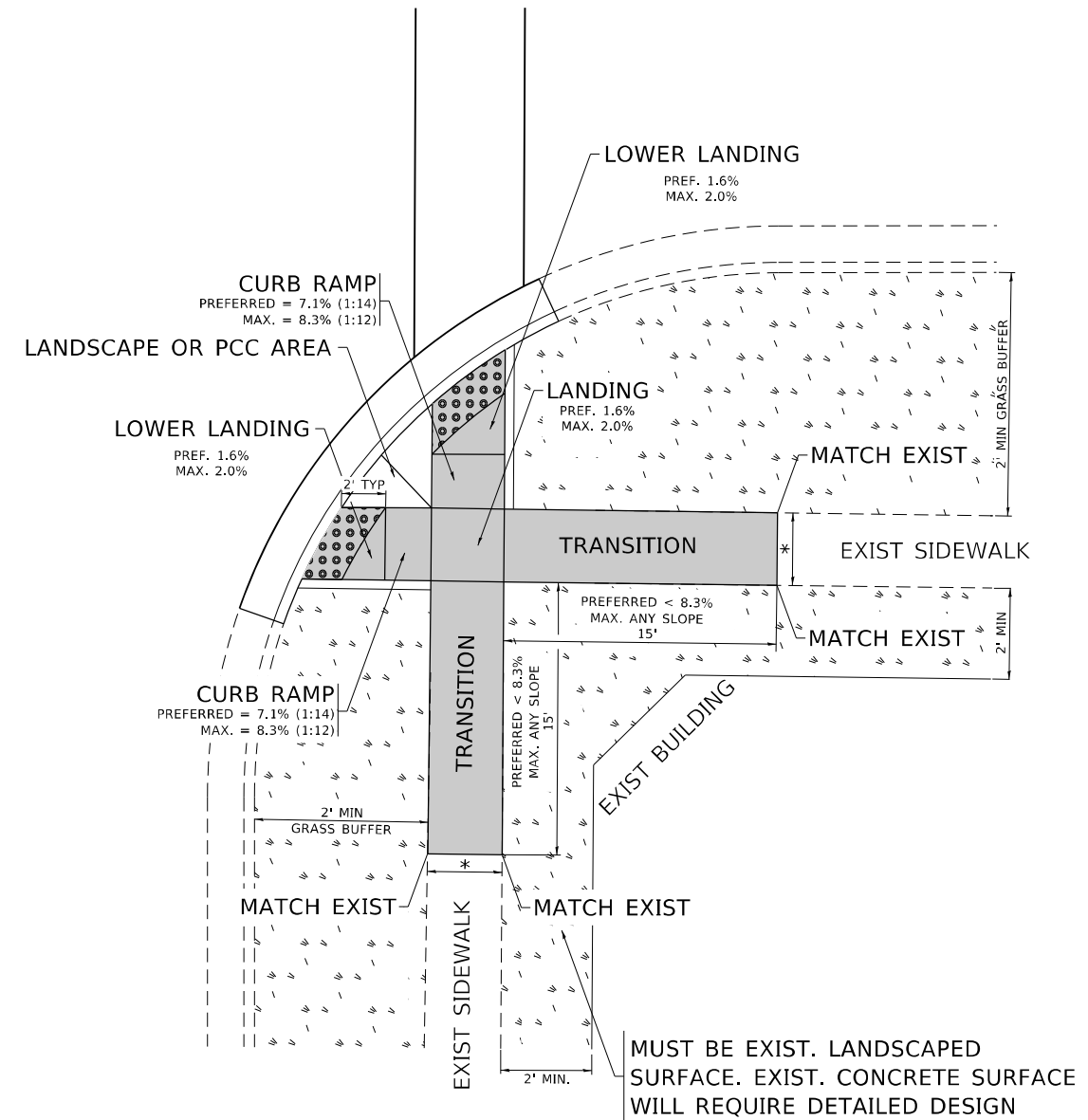
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338	FAP 0338 22 RS2	COOK	50	45
PD-02		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS

**PD-03A**



**PD-03B**



**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

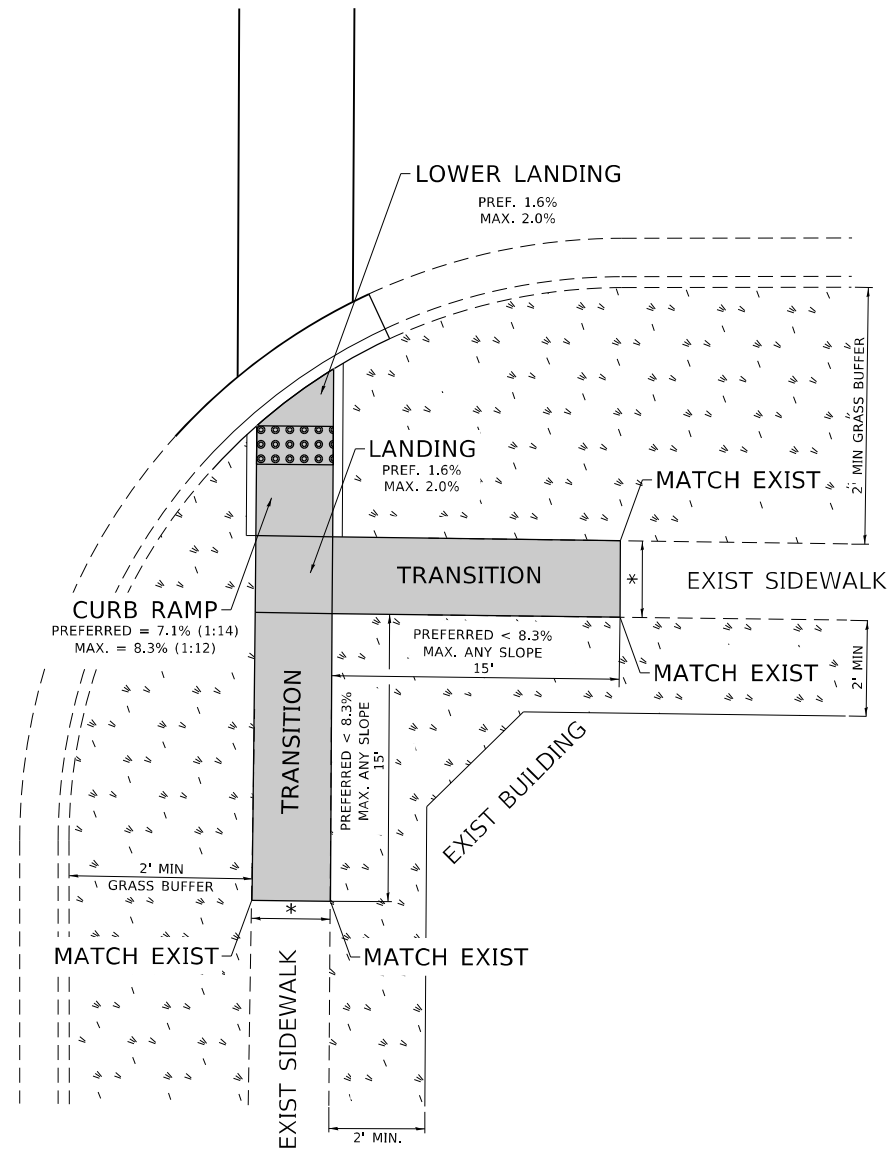
**PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS  
(PD-03)**

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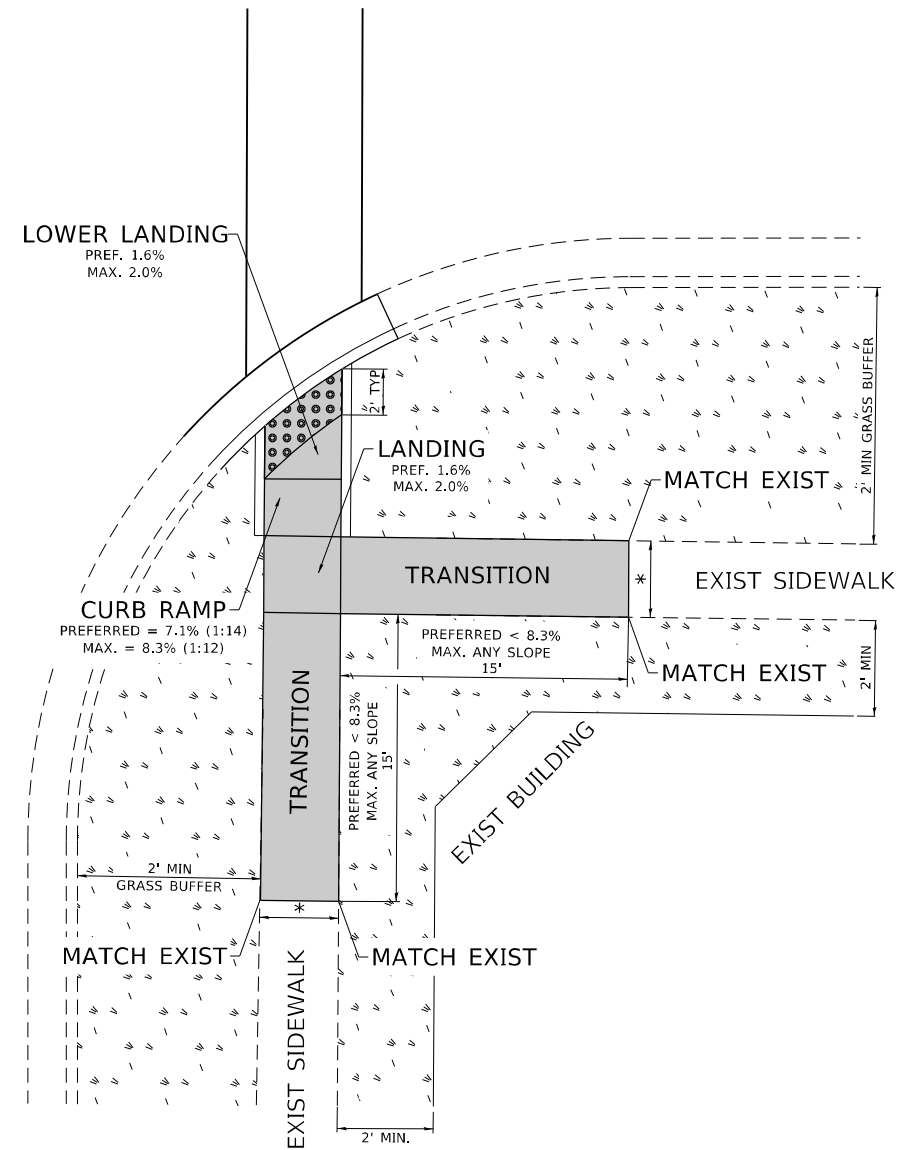
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338	FAP 0338 22 RS2	COOK	50	46
PD-03		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

**PD-04A**



**PD-04B**



**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

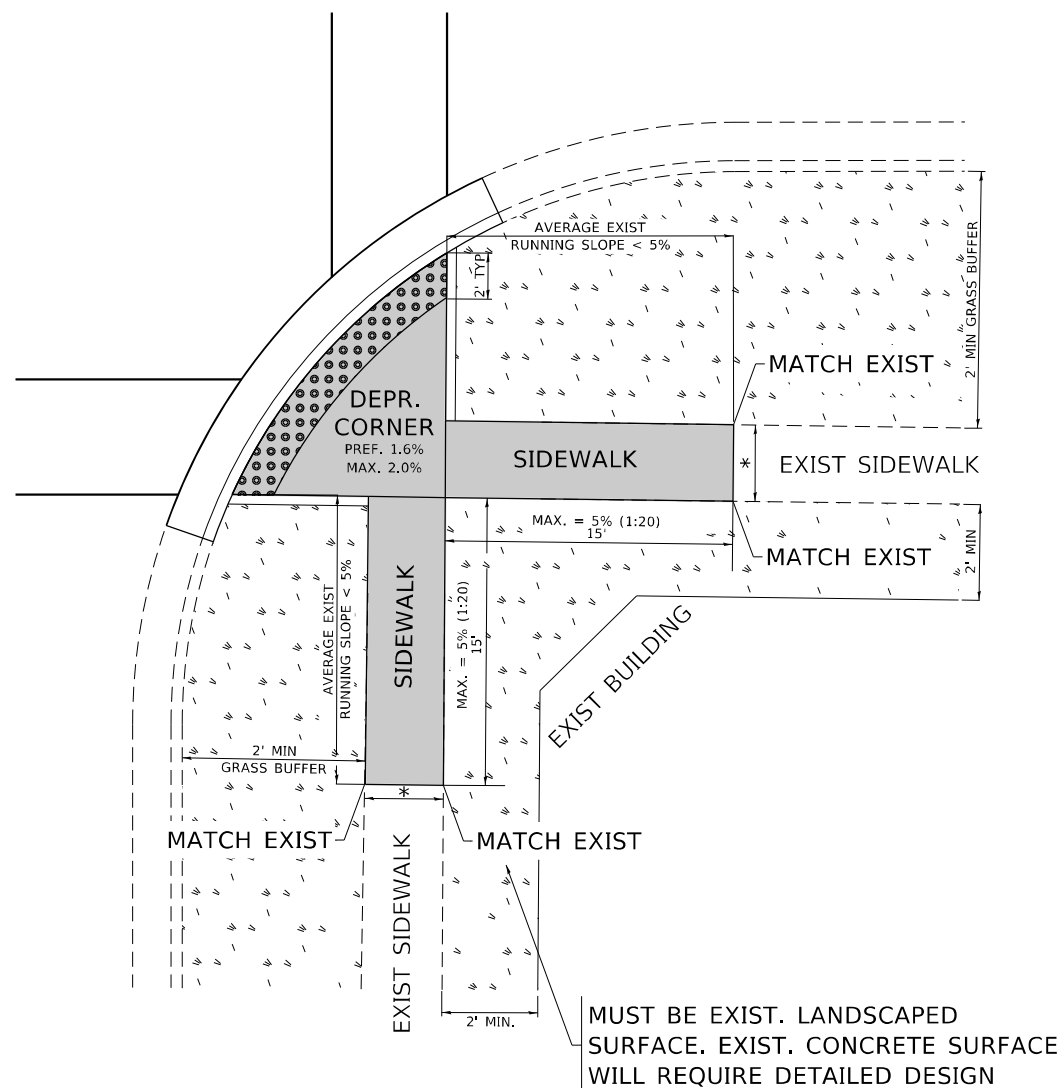
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS WITH  
TURNING SPACE (PD-04)**

SCALE: NONE    SHEET    OF    SHEETS    STA.    TO    STA.

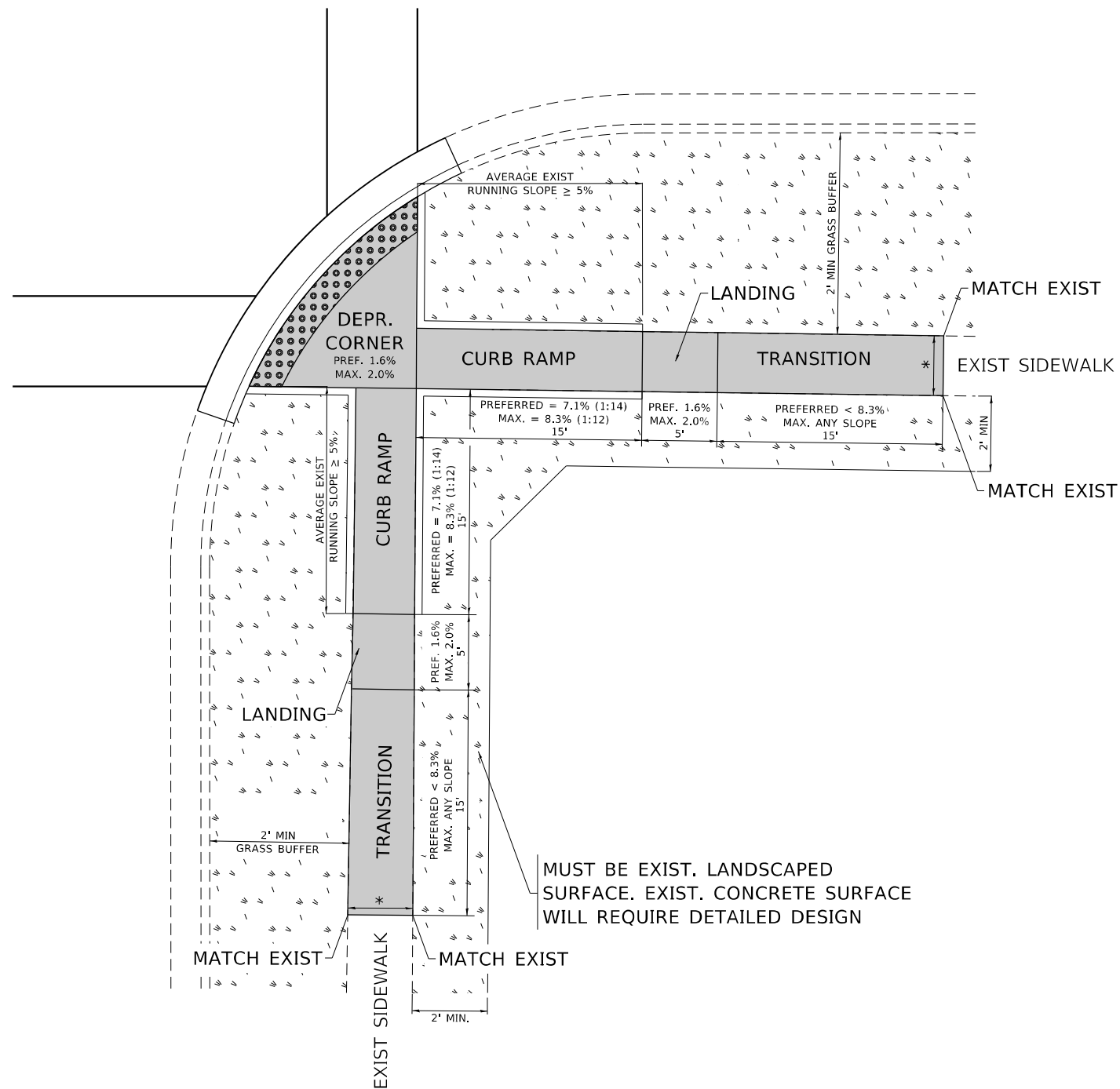
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	47
PD-04		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				

# ADA DETAIL FOR DEPRESSED CORNER CURB RAMPS

**PD-05A**



**PD-05B**



**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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PLOT DATE = 8/24/2023	DATE - 10/02/2019	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR DEPRESSED CORNER CURB RAMPS  
(PD-05)**

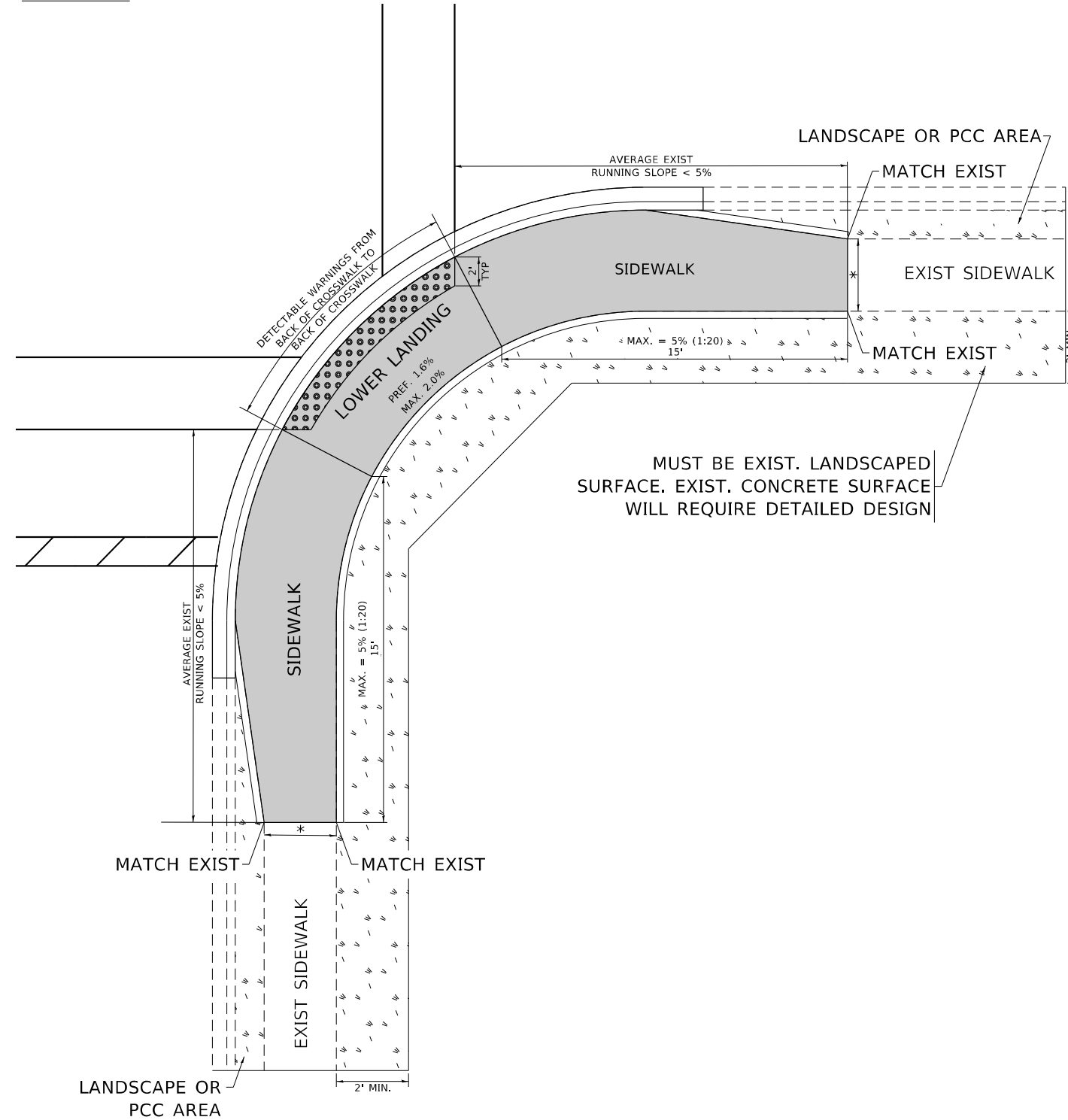
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	48
PD-05		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				

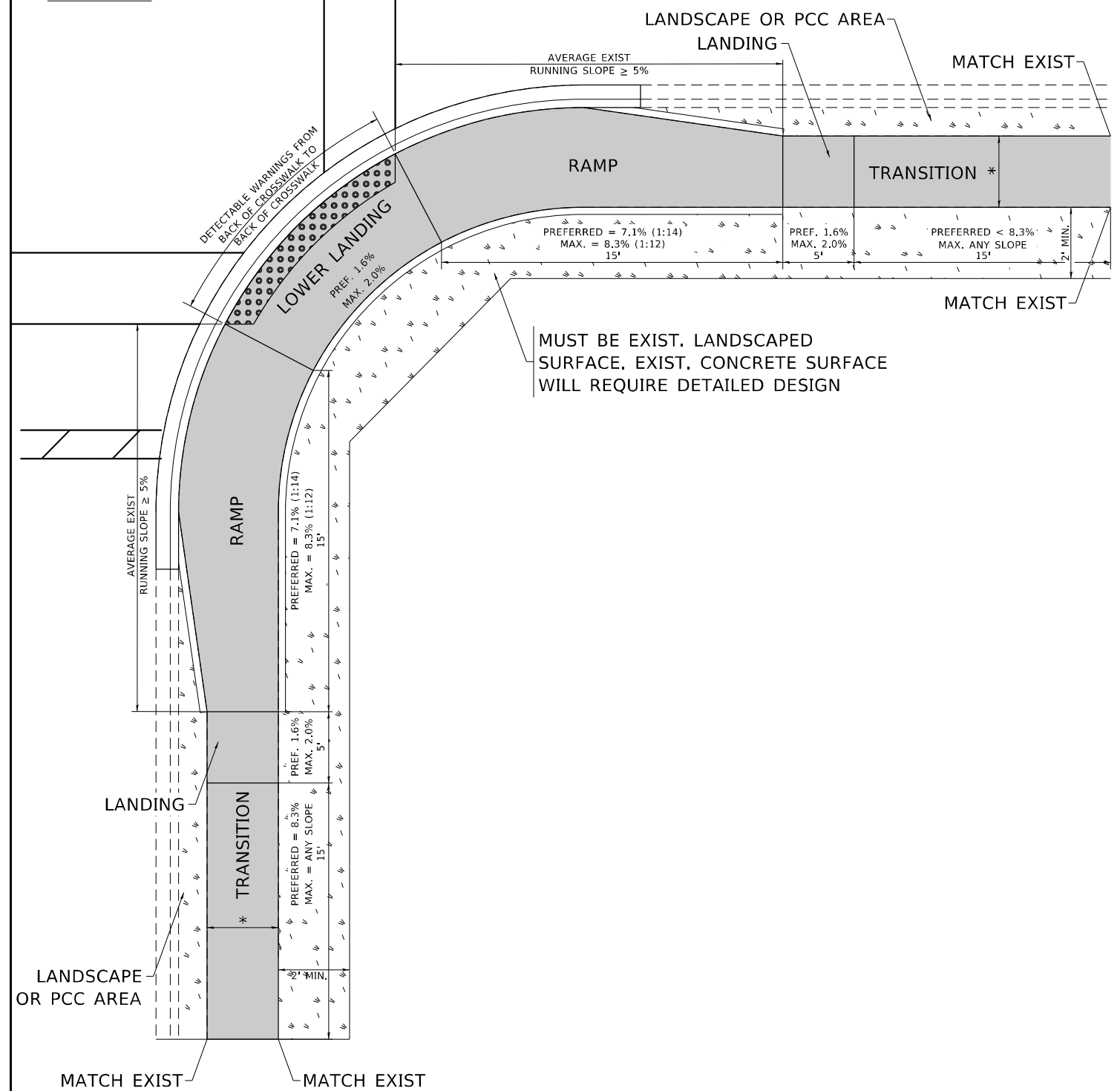


# ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING

**PD-06A**



**PD-06B**



**LEGEND**

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

**CONSTRUCTION NOTES:**

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

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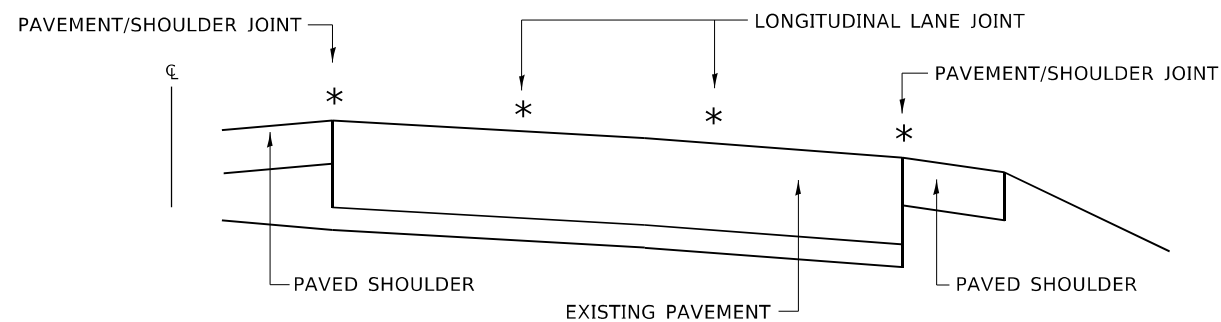
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

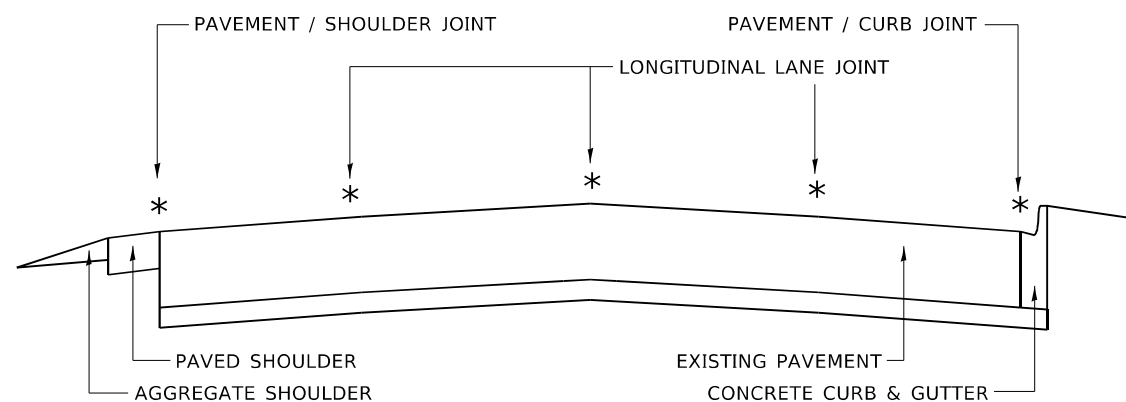
**PROJECT DETAIL FOR PARALLEL CURB RAMPS  
(PD-06)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

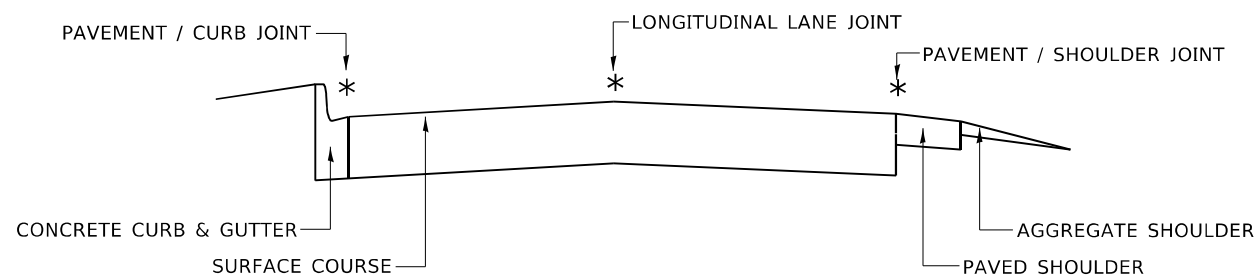
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 RS2	COOK	50	49
PD-06		CONTRACT NO. 62T74		
ILLINOIS FED. AID PROJECT				



**MULTI-LANE DIVIDED PAVEMENT**



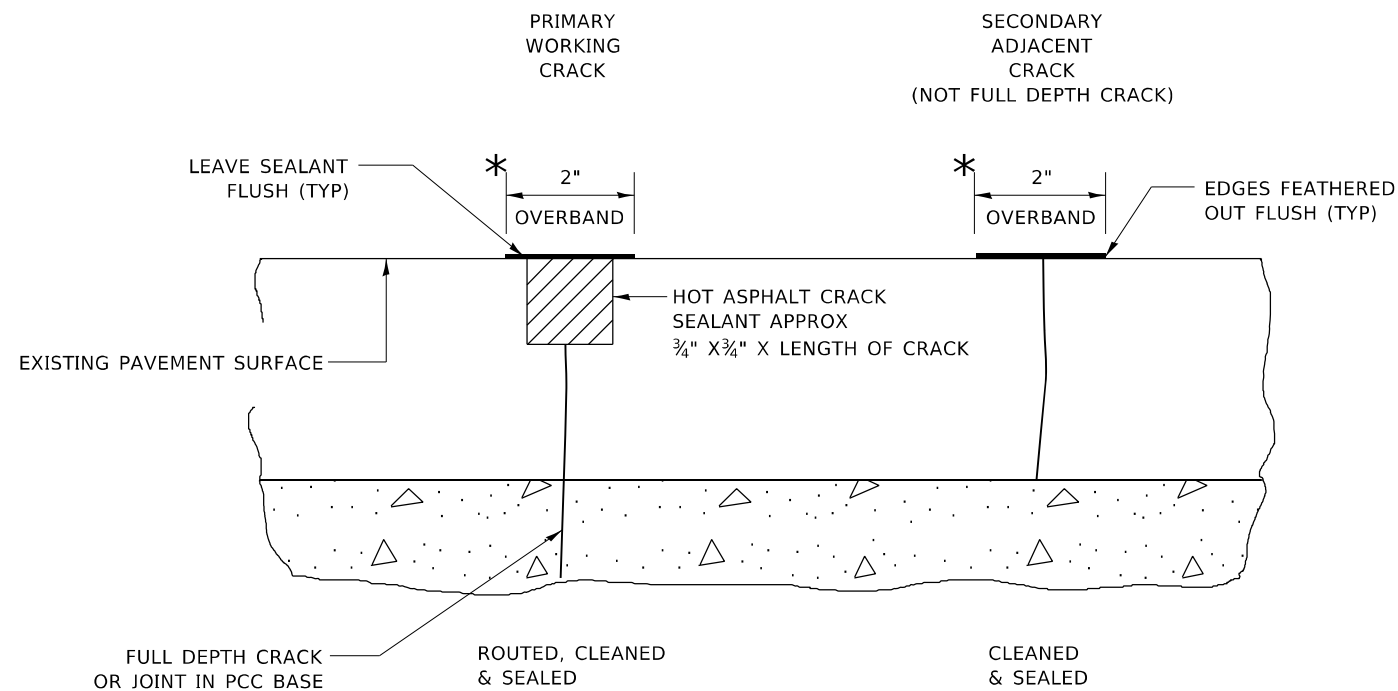
**MULTI-LANE UNDIVIDED PAVEMENT**



**TWO-LANE PAVEMENT**

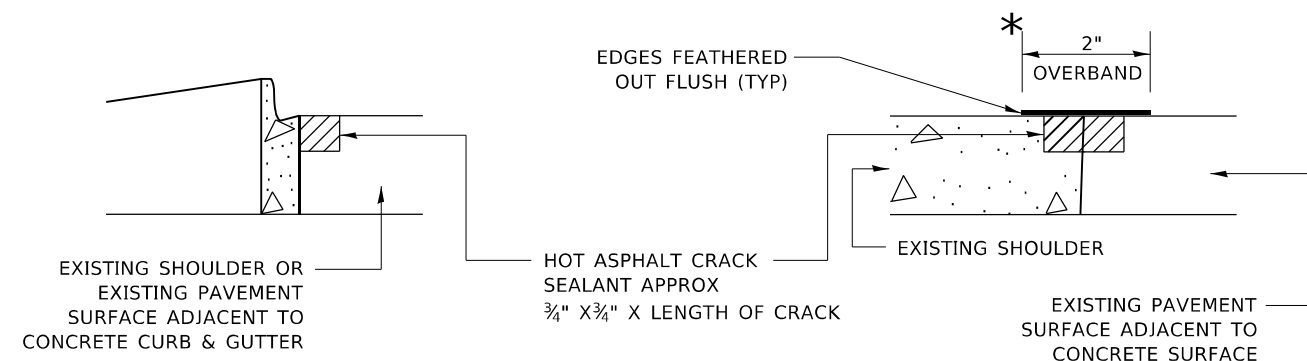
\* PROPOSED LONGITUDINAL CRACK ROUTING (PAVEMENT) & CRACK FILLING LOCATIONS

**GENERAL EXISTING TYPICAL SECTIONS  
(APPLIES TO HMA AND PCC PAVEMENTS)**



\* IN ALL LOCATIONS WHERE THE LONGITUDINAL CRACK CONFLICTS WITH EXISTING PAVEMENT MARKINGS (EITHER EDGE LINE OR LANE LINE) THE CRACK SHALL BE ROUTED & THE RESULTING RESERVOIR FILLED WITH SEALANT. ALL DAMAGES TO EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS SHALL BE RESTORED WITH MODIFIED URETHANE PAVEMENT MARKINGS.

**LONGITUDINAL JOINT**



**CRACK & JOINT SEALING DETAIL**

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PLOT DATE = 8/24/2023	DATE - 10/08/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CRACK & JOINT SEALING DETAIL (PD-11)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	FAP 0338 22 R52	COOK	50	50
CONTRACT NO. 62T74				
ILLINOIS FED. AID PROJECT				