

009

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	1
		LUNION	CONTRACT NO. 62J70	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED  
IN THE CITY OF OAK FOREST  
AND CITY OF MARKHAM.

**TRAFFIC DATA**

US 6 (159TH ST), ADT 32,700 (2017)

**POSTED SPEED LIMIT**

US 6 (159TH ST), 35 - 50 MPH

**PROPOSED  
HIGHWAY PLANS**

F.A.P. ROUTE 351 - US 6 (159TH STREET)  
IL 50 (Cicero Ave) TO I-294 (Tri-State Tollway)  
SECTION 2019-116-RS/SW  
PROJECT NHPP-7KQM (686)  
SMART OVERLAY /ADA IMPROVEMENTS  
COOK COUNTY

C-91-018-20

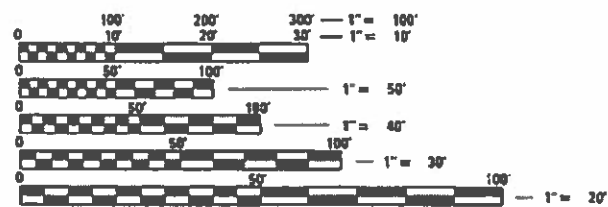
R 13 E



PROJECT BEGINS:  
STA 29 + 00.94

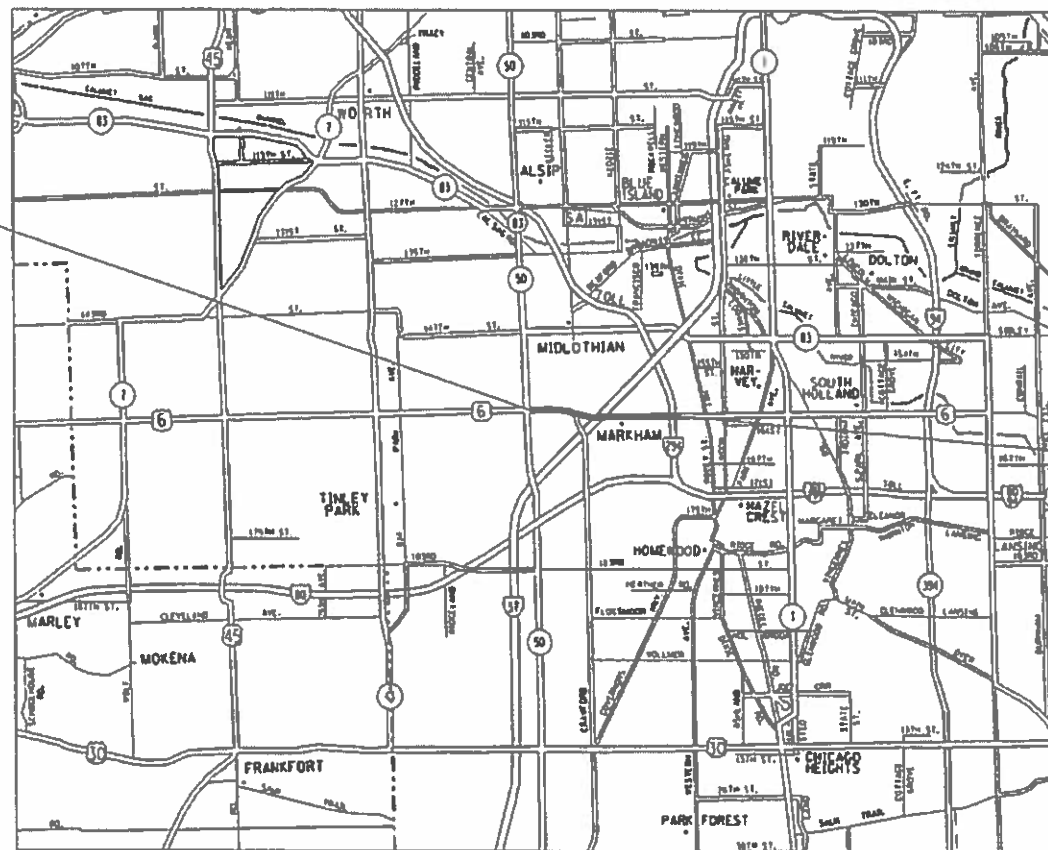
OMISSION LOCATIONS:  
STA 68 + 26.88 TO STA 88 + 16.03  
STA 98 + 85.33 TO STA 102 + 45.03  
STA 133 + 70.11 TO STA 151 + 24.09  
STA 170 + 38.04 TO STA 185 + 40.50

PROJECT ENDS:  
STA 192 + 70.17



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 EXCAVATORS  
1-800-892-0123  
OR 811



BREMEN TOWNSHIP

GROSS LENGTH = 16,369.23 FT. = 3.100 MILE  
NET LENGTH = 10,763.94 FT. = 2.039 MILE

PROJECT ENGINEER: ALAIN MIDY (847) 221-3056  
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62J70

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 27, 2020

*Alain Midy*  
REGIONAL ENGINEER

*Howard*  
ENGINEER OF DESIGN AND ENVIRONMENT

*James*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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**INDEX OF SHEETS**

**STATE STANDARDS**

**GENERAL NOTES**

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
1	COVER SHEET	000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
2-3	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
4-6	SUMMARY OF QUANTITIES	424021-05	DEPRESSED CORNER FOR SIDEWALKS
7-9	TYPICAL SECTIONS	442201-03	CLASS C AND D PATCHES
10-15	ROADWAY AND PAVEMENT MARKING PLANS	482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
16-18	DETECTOR LOOP REPLACEMENT PLANS	630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
19-24	ADA RAMP IMPROVEMENT DETAILS	701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
25	BD-08: DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
26	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
27	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
28	BD-32: BUTT JOINT AND HMA TAPER DETAILS	701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
29	BD-55: RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY	701601-09	URBAN LANE CLOSURE MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
30	TC-08: ENTRANCE AND EXIT RAMP CLOSURE DETAILS	701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
31	TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS	701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
32	TC-11: TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
33	TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
34	TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)	701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
35	TC-16: PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	701901-08	TRAFFIC CONTROL DEVICES
36	TC-17: TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	725001-01	OBJECT AND TERMINAL MARKERS
37	TC-22: ARTERIAL ROAD INFORMATION SIGN	782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
38	TS-07: DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING	814001-03	HANDHOLES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF OAK FOREST AND THE CITY OF MARKHAM.
- 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.
- THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
- 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- CATCH BASINS, MANHOLES, INLETS, DRAINAGE STRUCTURES AND VALVE VAULTS ADJUSTMENT AND/OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN, VIA E-MAIL AT PATRICE.HARRIS@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 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.
- 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.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE IDOT DISTRICT ONE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES.

**SEE SHEET 3 FOR CONTINUATION**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>INDEX OF SHEETS, STATE STANDARDS &amp; GENERAL NOTES</b>			
<b>US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)</b>			
SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	2
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				

REV-SEP

**GENERAL NOTES (CONTINUED)**

- 19. ALL CAST OPEN LIDS FOR FRAMES, TYPE 1, WITHIN CURB RAMPS FOR SIDEWALK, SHALL BE "ADA COMPLIANT" CAST OPEN LIDS PER HIGHWAY STANDARD 604001.
- 20. PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- 21. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 22. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- 23. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 24. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 TO SCHEDULE A WALK THROUGH TO DETERMINE TREE CARE A MINIMUM OF 7 DAYS PRIOR TO THE COMMENCEMENT OF SUCH WORK. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ROADSIDE DEVELOPMENT UNIT.
- 25. EXISTING VEGETATED AREAS (TREES, SHRUBS, VEGETATIVE BUFFERS, TURF AREAS, ETC.) WHERE DISTURBANCE IS NOT OCCURRING (INCLUDING AREAS OUTSIDE THE PROJECT LIMITS) SHALL NOT BE DISTURBED TO ENSURE THAT EXISTING VEGETATION IS PRESERVED TO MINIMIZE SOIL EROSION AND TO ELIMINATE SOIL COMPACTION. NO MATERIALS ARE TO BE STORED OR VEHICLES DRIVEN OR PARKED WITHIN THESE UNDISTURBED AREAS AT ANY TIME.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES  
US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	3
				CONTRACT NO. 62J70
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE						CODE NO	ITEM		UNIT	0005 80% FED 20% STATE				
20200100	EARTH EXCAVATION	CU YD	38	38					44000600	SIDEWALK REMOVAL	SO FT	3225	3225					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	15	15					44201777	CLASS D PATCHES, TYPE II, 11 INCH	SO YD	950	950					
25200110	SODDING, SALT TOLERANT	SO YD	15	15					44201781	CLASS D PATCHES, TYPE III, 11 INCH	SO YD	800	800					
25200200	SUPPLEMENTAL WATERING	UNIT	1	1					44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SO YD	650	650					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	37037	37037					48101620	AGGREGATE SHOULDERS, TYPE B 10"	SO YD	48	48					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	124	124					48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	147	147					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	704	704					60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	3	3					
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	1108	1108					60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3					
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	5794	5794					60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2					
42001300	PROTECTIVE COAT	SO YD	1027	1027					60266600	VALVE BOXES TO BE ADJUSTED	EACH	5	5					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	3225	3225				*	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5					
42400800	DETECTABLE WARNINGS	SO FT	220	220				*	60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5					
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SO YD	82159	82159				*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1					
									66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	38	38					
									66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3					REV-SEP

\* = SPECIALTY ITEMS  
 △ = NON-PARTICIPATING WORK (100% STATE)

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62170	

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE						CODE NO	ITEM		UNIT	0005 80% FED 20% STATE					
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1															
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1						* 70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	736	736					
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	6	6						* 70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	35731	35731					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6						* 70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2442	2442					
67100100	MOBILIZATION	L SUM	1	1						* 70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	4063	4063					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1						* 70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2387	2387					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1						* 70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	259	259					
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1						70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	7729	7729					
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1						* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	736	736					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1						* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	35731	35731					
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1						* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2442	2442					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	15458	15458						* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	4063	4063					
										* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2387	2387					
										* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	259	259					
										* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	885	885					

\* = SPECIALTY ITEMS  
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 WORK (100% STATE)

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62170	

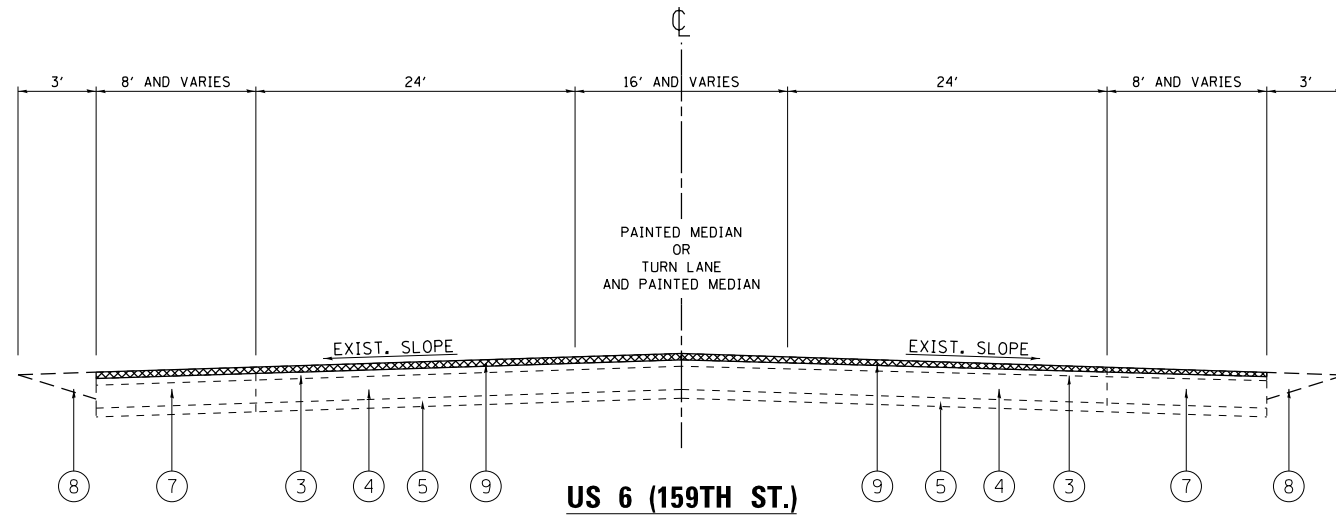
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	0005 80% FED 20% STATE	0005 100% STATE			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	885	885				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1106	1106				
K0026700	TREE CARE	EACH	60	60				
K0029624	WEED CONTROL, TEASEL	GALLON	0.5	0.5				
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	2823	2823				
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	92	92				
△ X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1850		1850			
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	13	13				
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	2577	2577				
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2003	2003				
△ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10		10			
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	0005 80% FED 20% STATE				
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	33292	33292				
∅ Z0076600	TRAINEES	HOUR	500	500				
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500				

REV. - MS

∅ 0042  
 \* = SPECIALTY ITEMS  
 △ = NON-PARTICIPATING WORK (100% STATE)





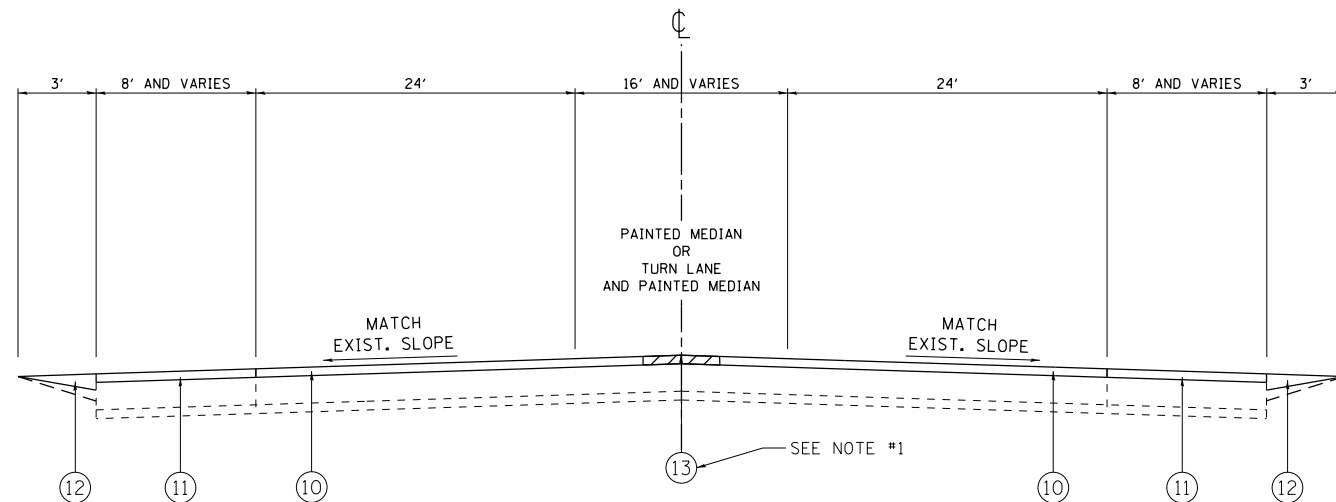
**EXISTING TYPICAL SECTION**  
 STA. 51+45 TO STA. 68+27  
 STA. 190+05 TO STA. 192+70

**LEGEND:**

- ① EXISTING SIDEWALK
- ② EXISTING COMB. CONC. CURB AND GUTTER, B-6.24
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING PCC BASE COURSE, ± 10"
- ⑤ EXISTING SUB-BASE
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING HMA SHOULDER
- ⑧ EXISTING AGGREGATE WEDGE SHOULDER
- ⑨ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
- ⑩ PROPOSED POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- ⑪ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- ⑫ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑬ PROPOSED CENTER LINE - RUMBLE STRIP - 16"

**NOTES:**

1. CENTERLINE RUMBLE STRIPS FROM STA. 51+45 TO STA. 68+27



**US 6 (159TH ST.)**  
**PROPOSED TYPICAL SECTION**  
 STA. 51+45 TO STA. 68+27  
 STA. 190+05 TO STA. 192+70

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

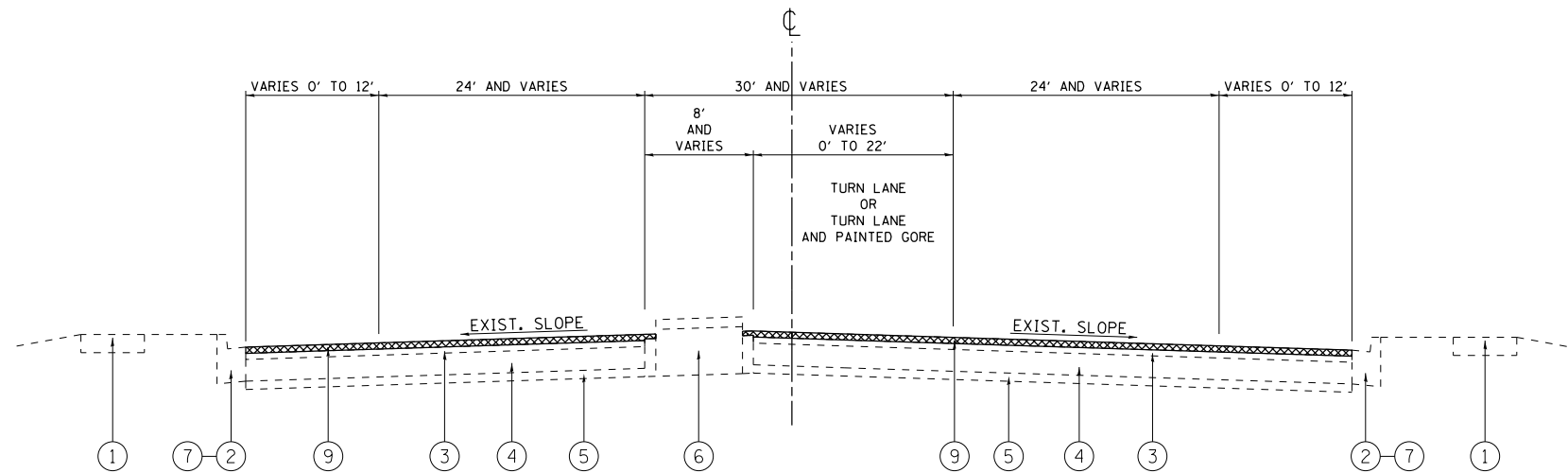
<b>EXISTING AND PROPOSED TYPICAL SECTIONS</b>	
<b>US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)</b>	
SCALE:	SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	8
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				



**LEGEND:**

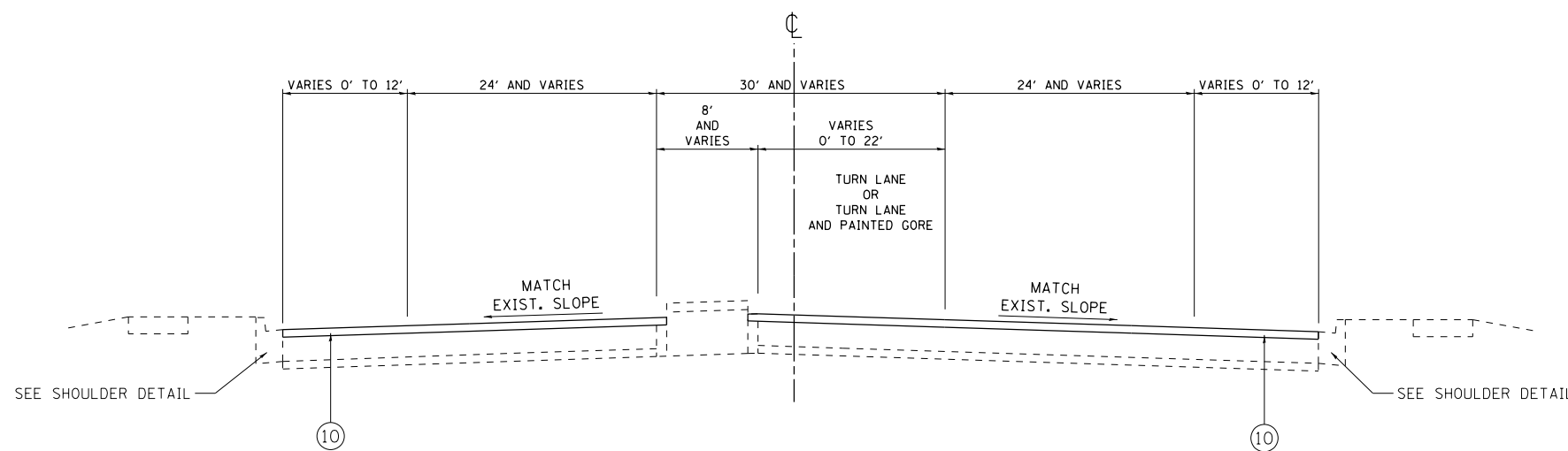
- ① EXISTING SIDEWALK
- ② EXISTING COMB. CONC. CURB AND GUTTER, B-6.24
- ③ EXISTING HMA SURFACE COURSE, ± 3"
- ④ EXISTING PCC BASE COURSE, ± 10"
- ⑤ EXISTING SUB-BASE
- ⑥ EXISTING CONCRETE MEDIAN
- ⑦ EXISTING HMA SHOULDER
- ⑧ EXISTING AGGREGATE WEDGE SHOULDER
- ⑨ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
- ⑩ PROPOSED POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- ⑪ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- ⑫ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑬ PROPOSED CENTER LINE - RUMBLE STRIP - 16"



**US 6 (159TH ST.)**

**EXISTING TYPICAL SECTION**

STA. 29+00 TO STA. 40+04  
 STA. 88+16 TO STA. 98+85  
 STA. 102+45 TO STA. 111+62  
 STA. 151+24 TO STA. 170+38  
 STA. 185+40 TO STA. 190+05

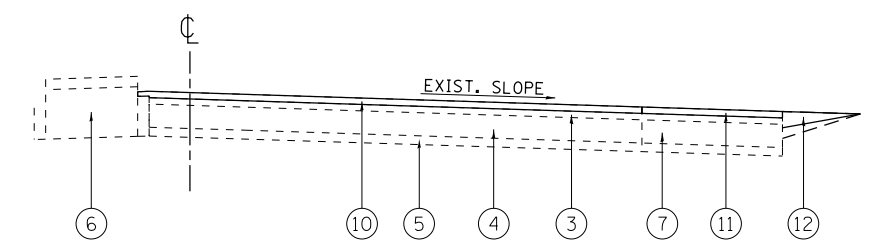


**US 6 (159TH ST.)**

**PROPOSED TYPICAL SECTION**

STA. 29+00 TO STA. 40+04  
 STA. 88+16 TO STA. 98+85  
 STA. 102+45 TO STA. 111+62  
 STA. 151+24 TO STA. 170+38  
 STA. 185+40 TO STA. 190+05

**SHOULDER DETAIL:**



STA. 88+16 TO STA. 98+85  
 STA. 102+45 TO STA. 110+50  
 STA. 161+00 TO STA. 170+38  
 STA. 185+40 TO STA. 190+05

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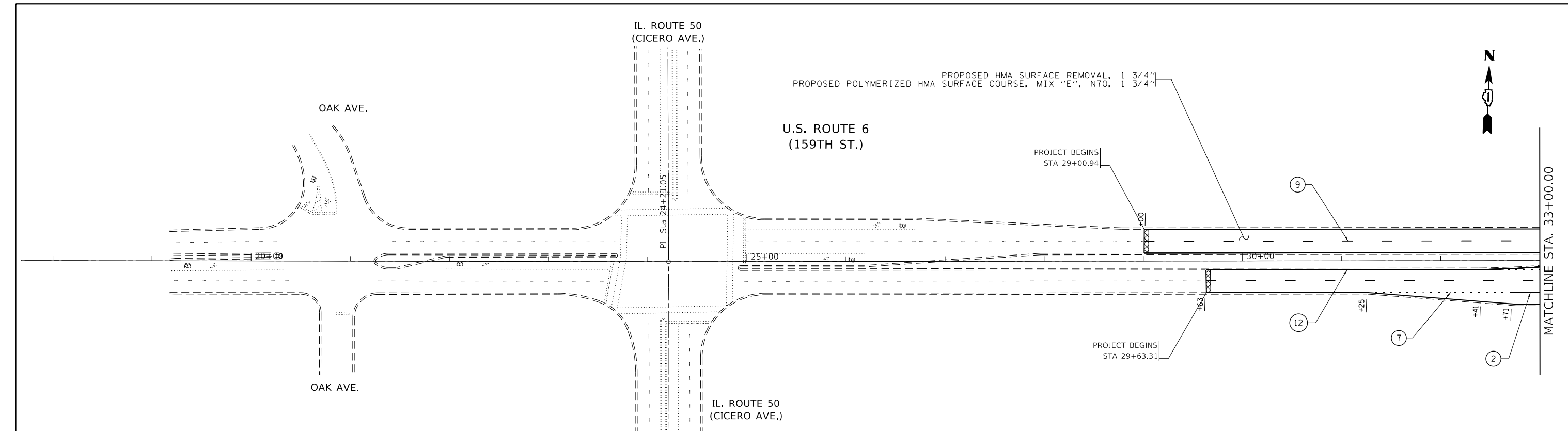
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

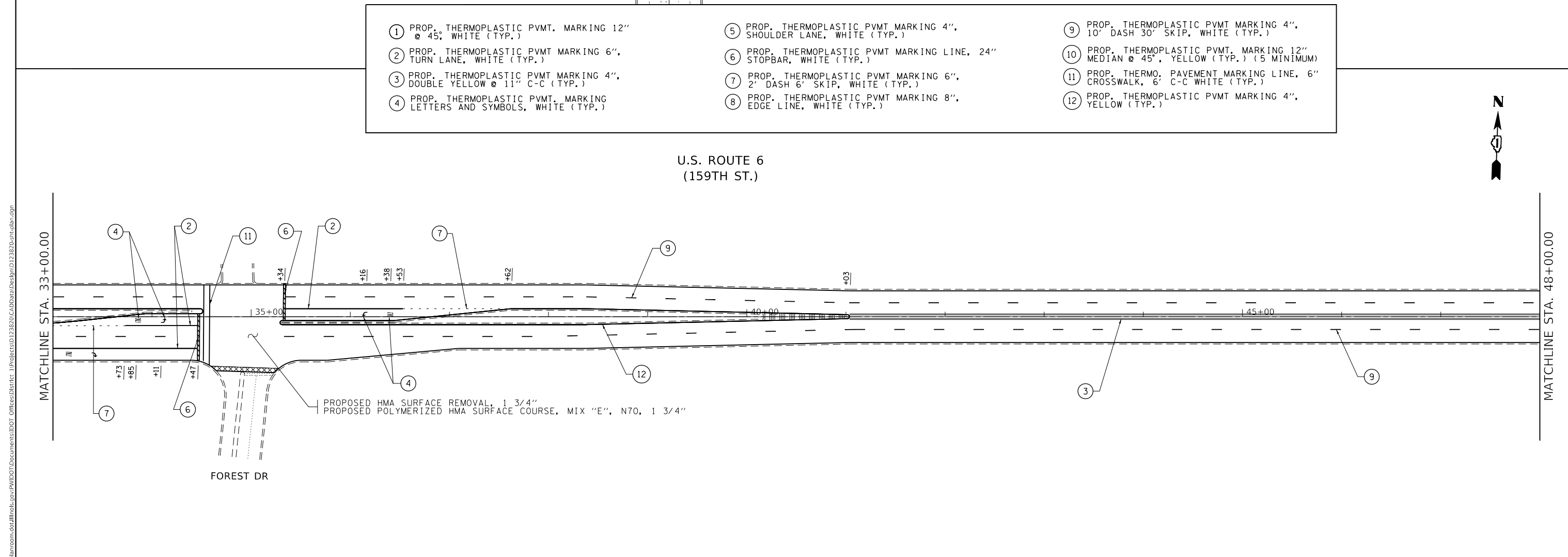
**EXISTING AND PROPOSED TYPICAL SECTIONS  
 US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	9
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				



- |                                                                       |                                                                      |                                                                                 |
|-----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 12" @ 45°, WHITE (TYP.)           | ⑤ PROP. THERMOPLASTIC PVMT MARKING 4", SHOULDER LANE, WHITE (TYP.)   | ⑨ PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)          |
| ② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)        | ⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)   | ⑩ PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) |
| ③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT MARKING 6", 2' DASH 6' SKIP, WHITE (TYP.) | ⑪ PROP. THERMO. PAVEMENT MARKING LINE, 6" CROSSWALK, 6' C-C WHITE (TYP.)        |
| ④ PROP. THERMOPLASTIC PVMT. MARKING LETTERS AND SYMBOLS, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT MARKING 8", EDGE LINE, WHITE (TYP.)       | ⑫ PROP. THERMOPLASTIC PVMT MARKING 4", YELLOW (TYP.)                            |



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USER NAME = rothjp	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/31/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EXISTING AND PROPOSED ROADWAY PLAN          US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)</b>		
SCALE: 1" = 50'	SHEET 1 OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	10
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				

PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"

U.S. ROUTE 6  
(159TH ST.)

PROPOSED HMA SURFACE REMOVAL, 1 3/4"  
PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 3/4"

MATCHLINE STA. 48+00.00

MATCHLINE STA. 63+00.00



- |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>① PROP. THERMOPLASTIC PVMT. MARKING 12" @ 45', WHITE (TYP.)</li> <li>② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)</li> <li>③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)</li> <li>④ PROP. THERMOPLASTIC PVMT. MARKING LETTERS AND SYMBOLS, WHITE (TYP.)</li> </ul> | <ul style="list-style-type: none"> <li>⑤ PROP. THERMOPLASTIC PVMT MARKING 4", SHOULDER LANE, WHITE (TYP.)</li> <li>⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)</li> <li>⑦ PROP. THERMOPLASTIC PVMT MARKING 6", 2' DASH 6' SKIP, WHITE (TYP.)</li> <li>⑧ PROP. THERMOPLASTIC PVMT MARKING 8", EDGE LINE, WHITE (TYP.)</li> </ul> | <ul style="list-style-type: none"> <li>⑨ PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)</li> <li>⑩ PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45', YELLOW (TYP.) (5' MINIMUM)</li> <li>⑪ PROP. THERMO. PAVEMENT MARKING LINE, 6" CROSSWALK, 6' C-C WHITE (TYP.)</li> <li>⑫ PROP. THERMOPLASTIC PVMT MARKING 4", YELLOW (TYP.)</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

U.S. ROUTE 6  
(159TH ST.)

MATCHLINE STA. 63+00.00

MATCHLINE STA. 75+00.00



OMISSION BEGINS  
STA 68+26.88

PROPOSED HMA SURFACE REMOVAL, 1 3/4"  
PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 3/4"

PROPOSED HMA SURFACE REMOVAL, 1 3/4"  
PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

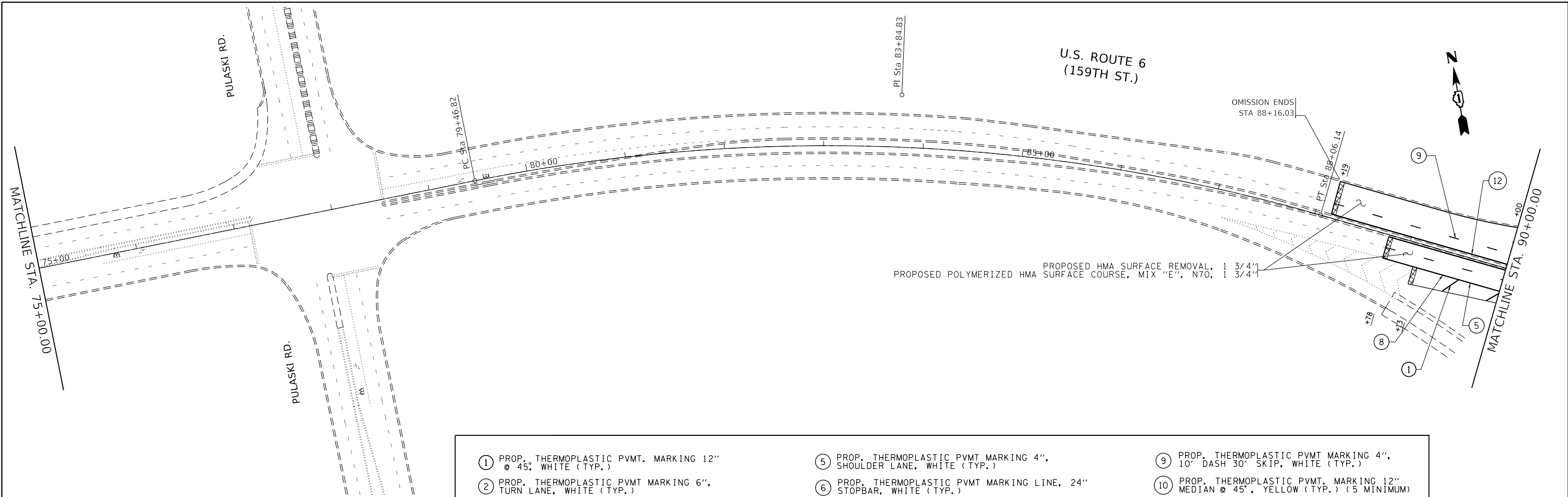
EXISTING AND PROPOSED ROADWAY PLAN  
US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)

SCALE: 1"= 50' SHEET 2 OF 6 SHEETS STA. TO STA.

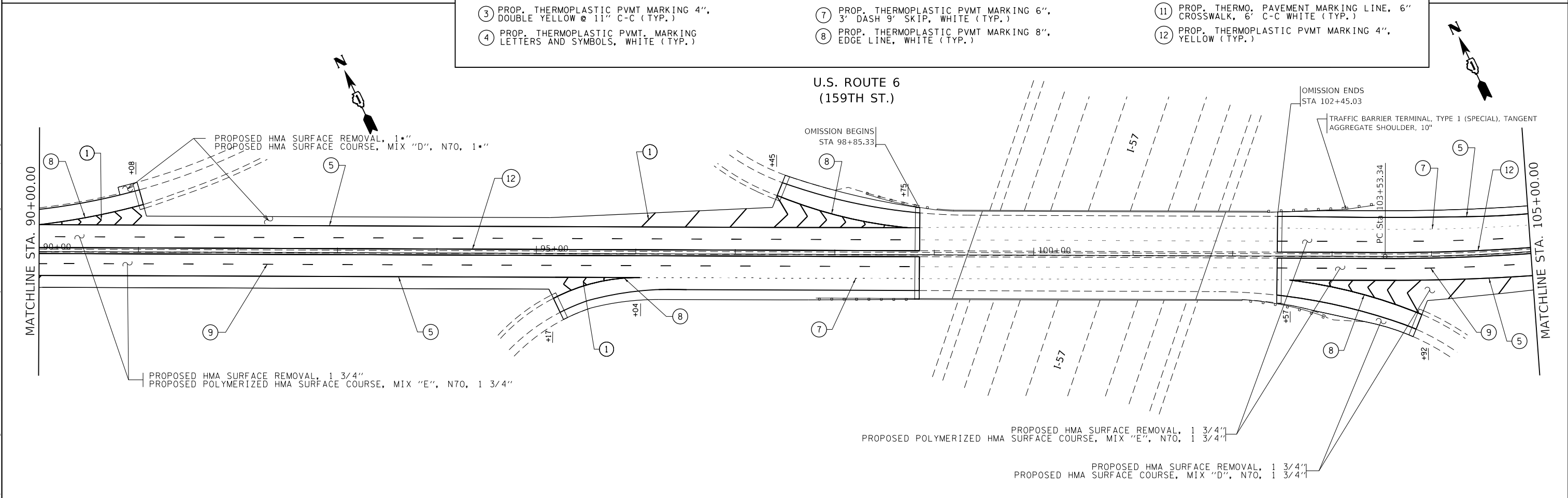
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	11
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 1/31/2020	CHECKED -	REVISED -
	DATE -	REVISED -



- |                                                                       |                                                                      |                                                                                 |
|-----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 12" @ 45°, WHITE (TYP.)           | ⑤ PROP. THERMOPLASTIC PVMT MARKING 4", SHOULDER LANE, WHITE (TYP.)   | ⑨ PROP. THERMOPLASTIC PVMT MARKING 4", 10" DASH 30' SKIP, WHITE (TYP.)          |
| ② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)        | ⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)   | ⑩ PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45°, YELLOW (TYP.) (5 MINIMUM) |
| ③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT MARKING 6", 3' DASH 9' SKIP, WHITE (TYP.) | ⑪ PROP. THERMO. PAVEMENT MARKING LINE, 6" CROSSWALK, 6' C-C WHITE (TYP.)        |
| ④ PROP. THERMOPLASTIC PVMT. MARKING LETTERS AND SYMBOLS, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT MARKING 8", EDGE LINE, WHITE (TYP.)       | ⑫ PROP. THERMOPLASTIC PVMT MARKING 4", YELLOW (TYP.)                            |



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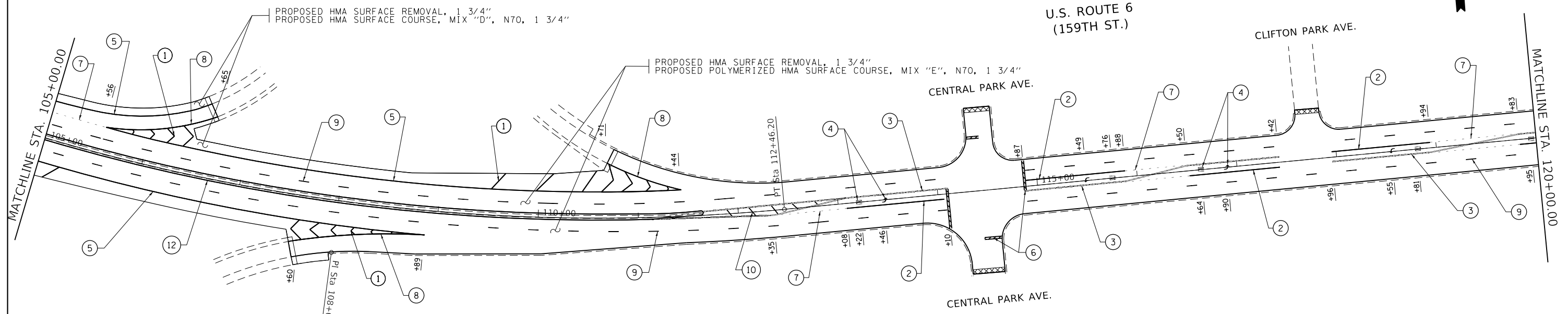
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

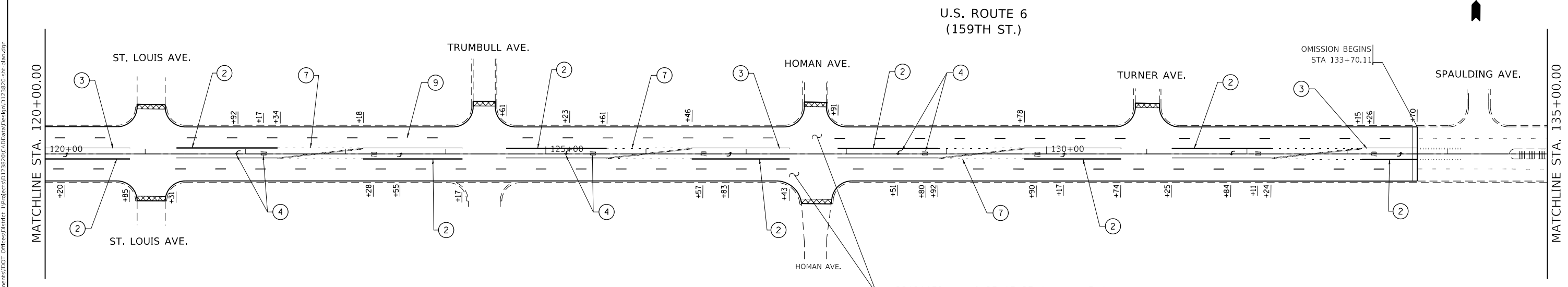
<b>EXISTING AND PROPOSED ROADWAY PLAN</b>	
<b>US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)</b>	
SCALE: 1"= 50'	SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	12
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				

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- |                                                                       |                                                                      |                                                                                  |
|-----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 12" @ 45°, WHITE (TYP.)           | ⑤ PROP. THERMOPLASTIC PVMT MARKING 4", SHOULDER LANE, WHITE (TYP.)   | ⑨ PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)           |
| ② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)        | ⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)   | ⑩ PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45°, YELLOW (TYP.) (5' MINIMUM) |
| ③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT MARKING 6", 3' DASH 9' SKIP, WHITE (TYP.) | ⑪ PROP. THERMO. PAVEMENT MARKING LINE, 6" CROSSWALK, 6' C-C WHITE (TYP.)         |
| ④ PROP. THERMOPLASTIC PVMT. MARKING LETTERS AND SYMBOLS, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT MARKING 8", EDGE LINE, WHITE (TYP.)       | ⑫ PROP. THERMOPLASTIC PVMT MARKING 4", YELLOW (TYP.)                             |



PROPOSED HMA SURFACE REMOVAL, 1 3/4"  
 PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"

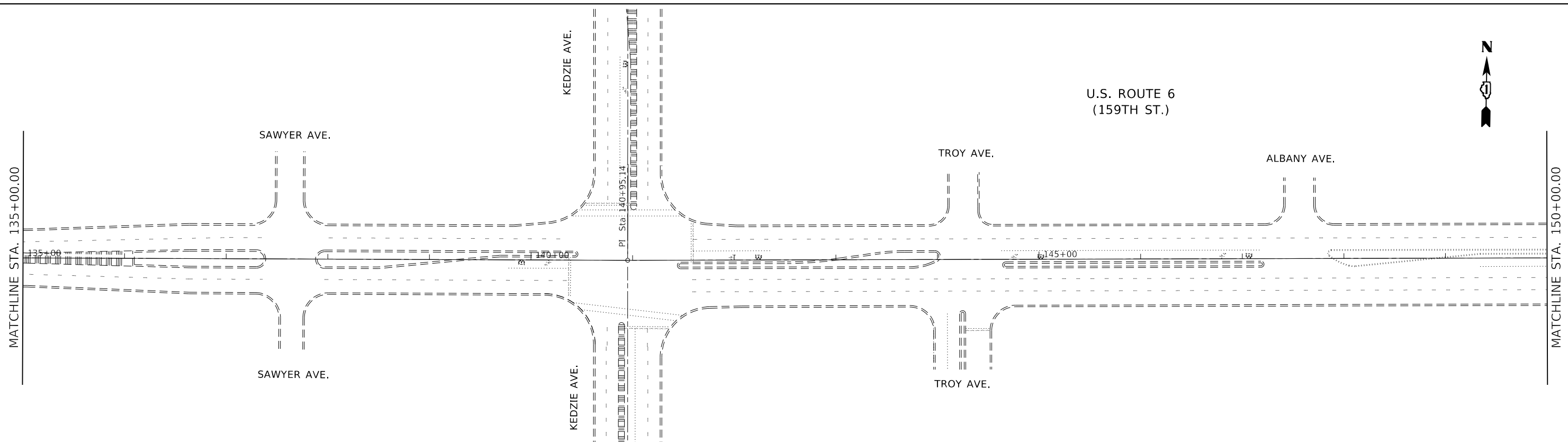
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	DRAWN -	REVISED -
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PLOT DATE = 1/31/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

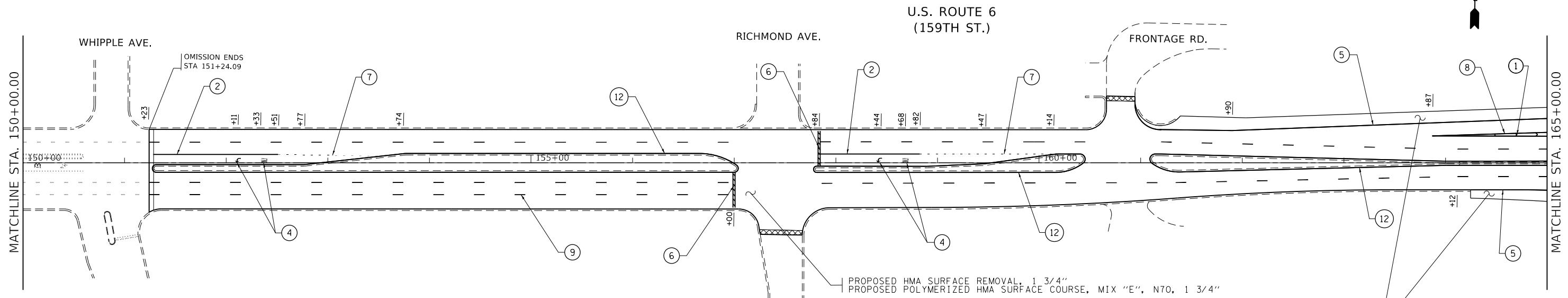
<b>EXISTING AND PROPOSED ROADWAY PLAN</b>	
<b>US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)</b>	
SCALE: 1"= 50'	SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	13
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 12" @ 45°, WHITE (TYP.)<br>② PROP. THERMOPLASTIC PVMT MARKING 6", TURN LANE, WHITE (TYP.)<br>③ PROP. THERMOPLASTIC PVMT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)<br>④ PROP. THERMOPLASTIC PVMT. MARKING LETTERS AND SYMBOLS, WHITE (TYP.) | ⑤ PROP. THERMOPLASTIC PVMT MARKING 4", SHOULDER LANE, WHITE (TYP.)<br>⑥ PROP. THERMOPLASTIC PVMT MARKING LINE, 24" STOPBAR, WHITE (TYP.)<br>⑦ PROP. THERMOPLASTIC PVMT MARKING 6", 3' DASH 9' SKIP, WHITE (TYP.)<br>⑧ PROP. THERMOPLASTIC PVMT MARKING 8", EDGE LINE, WHITE (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)<br>⑩ PROP. THERMOPLASTIC PVMT. MARKING 12" MEDIAN @ 45°, YELLOW (TYP.) (5' MINIMUM)<br>⑪ PROP. THERMO. PAVEMENT MARKING LINE, 6" CROSSWALK, 6' C-C WHITE (TYP.)<br>⑫ PROP. THERMOPLASTIC PVMT MARKING 4", YELLOW (TYP.) |
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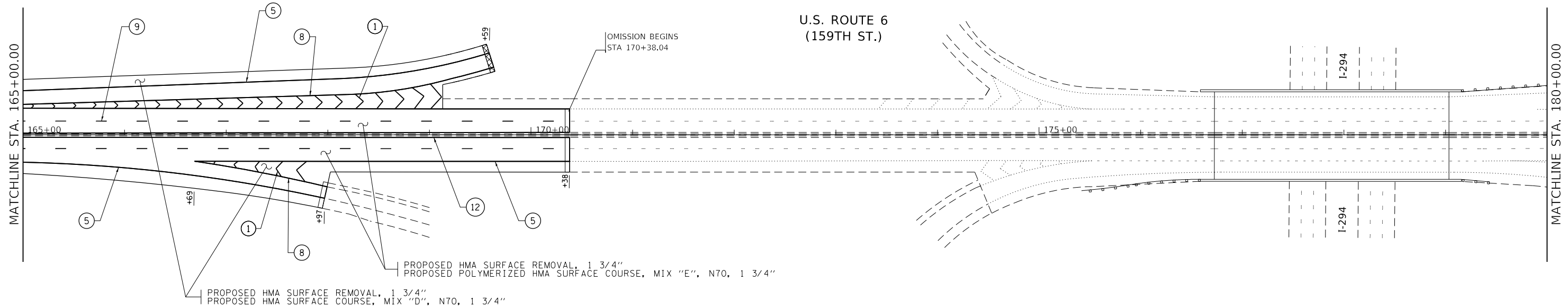
PROPOSED HMA SURFACE REMOVAL, 1 3/4"  
 PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "E", N70, 1 3/4"  
 PROPOSED HMA SURFACE REMOVAL, 1 3/4"  
 PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 3/4"

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PLOT DATE = 1/31/2020	CHECKED -	REVISED -
	DATE -	REVISED -

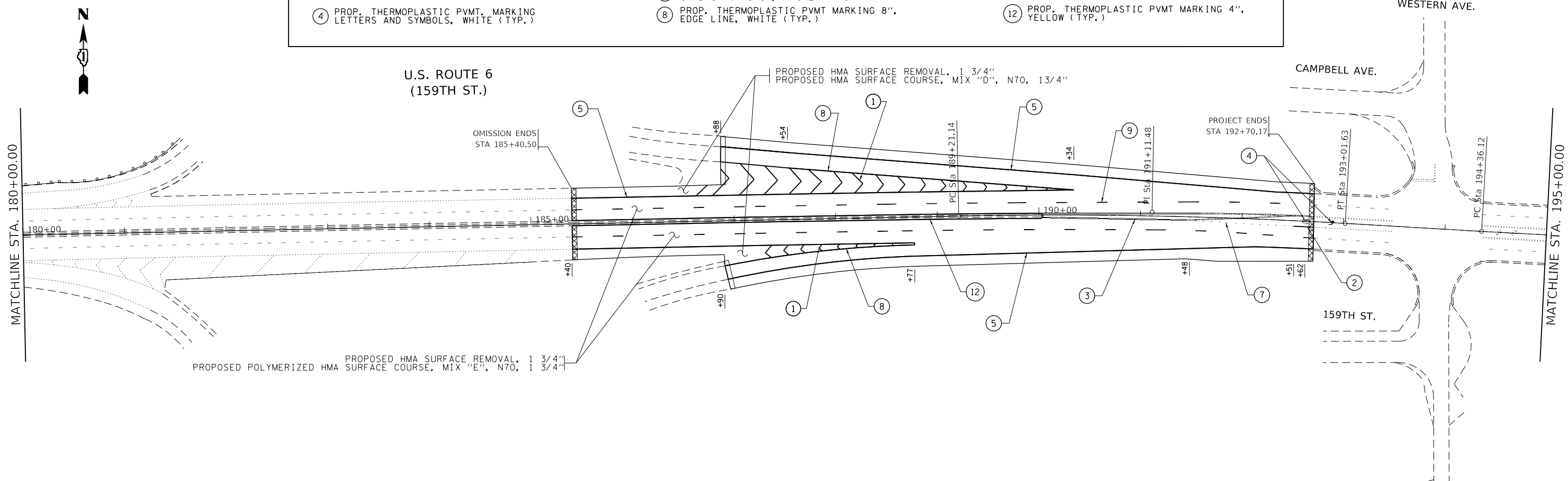
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN**  
**US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)**  
 SCALE: 1" = 50'    SHEET 5 OF 6 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	14
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				



- |                                                                       |                                                                      |                                                                                  |
|-----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|
| ① PROP. THERMOPLASTIC PVMT. MARKING 12" @ 45°, WHITE (TYP.)           | ⑤ PROP. THERMOPLASTIC PVMT MARKING 4", SHOULDER LANE, WHITE (TYP.)   | ⑨ PROP. THERMOPLASTIC PVMT MARKING 4", 10' DASH 30' SKIP, WHITE (TYP.)           |
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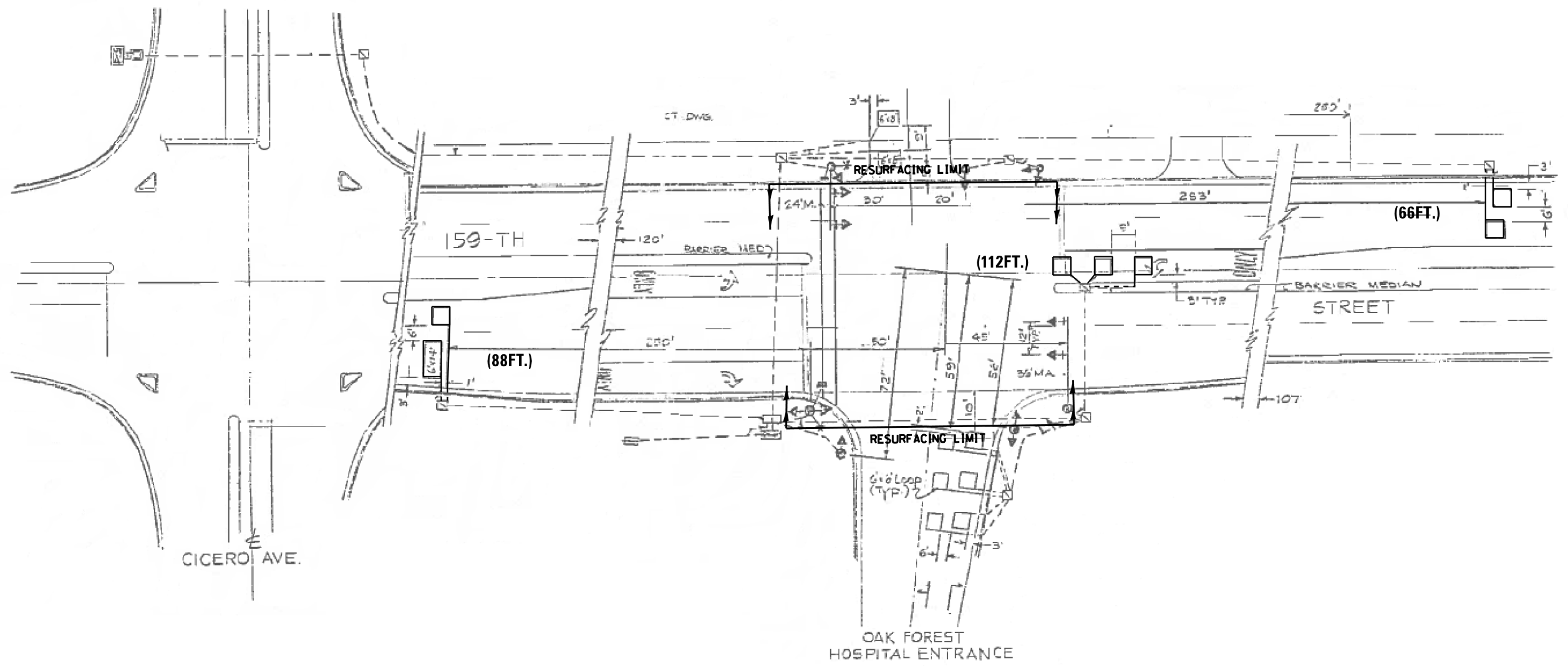
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/31/2020	CHECKED -	REVISED -
	DATE -	REVISED -

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

**EXISTING AND PROPOSED ROADWAY PLAN**  
**US 6 - IL 50 TO EAST OF I-294 (TRI-STATE)**  
 SCALE: 1" = 50'    SHEET 6 OF 6 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	15
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				

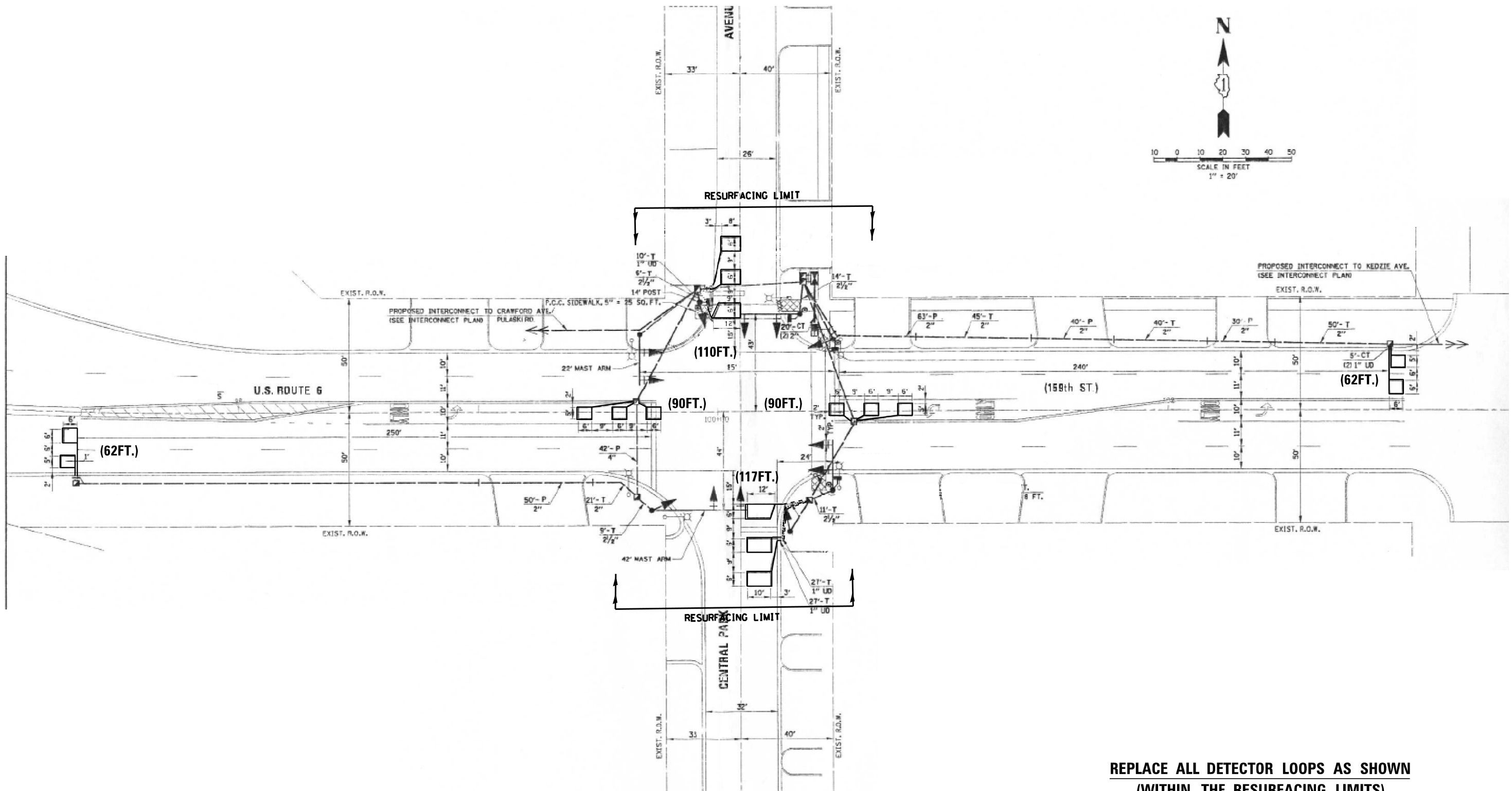


**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	266	FOOT

FILE NAME =	USER NAME = mezag	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN US 6 (159th STREET) AT OAK FOREST HOSPITAL</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 12/12/2019					ILLINOIS FED. AID PROJECT					

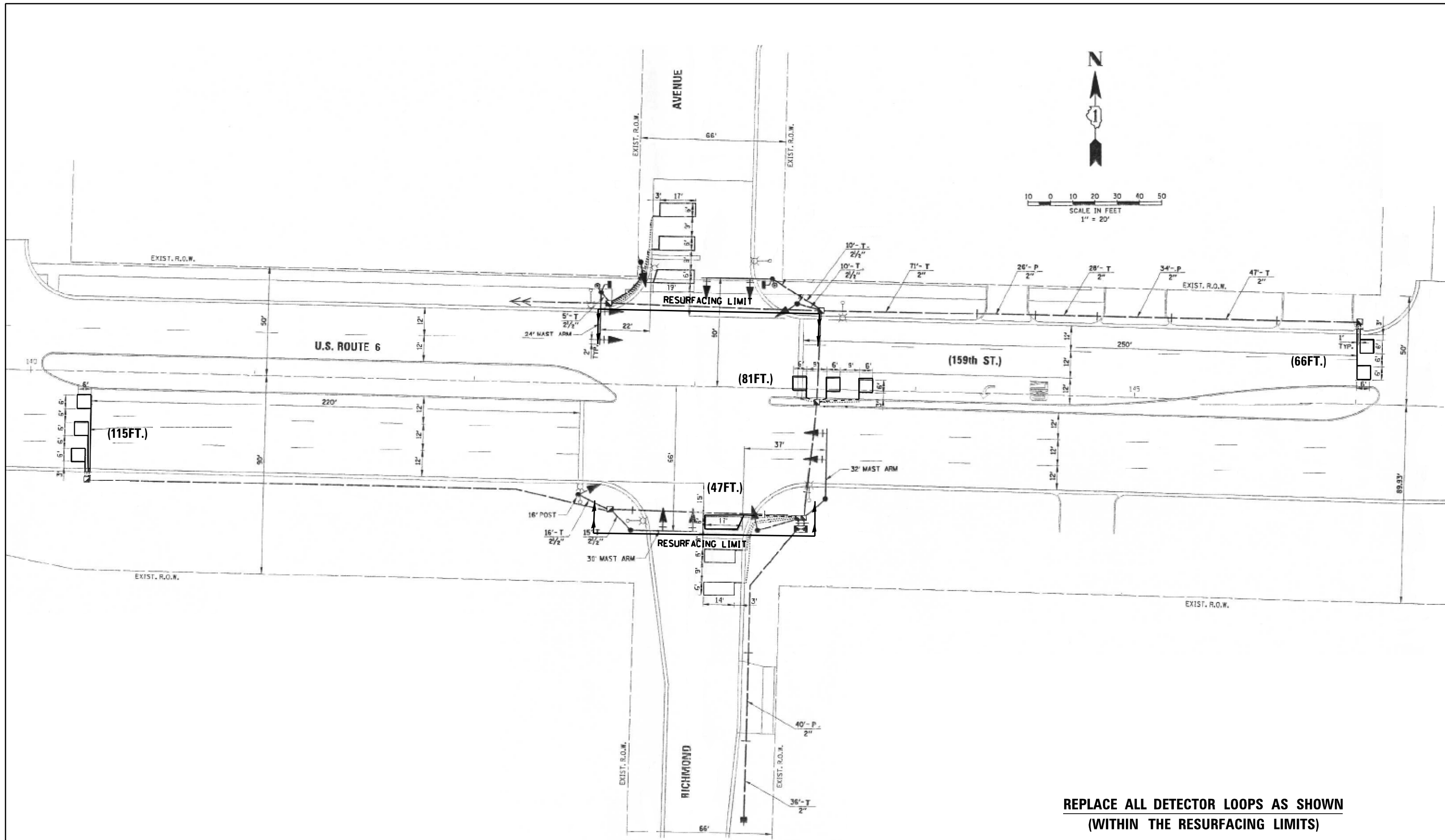




**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	531	FOOT

FILE NAME =	USER NAME = mezag	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN US 6 (159th STREET) AT CENTRAL PARK AVE.</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 40.0000' / in.	CHECKED - S.N.	REVISI			CONTRACT NO. 62J70					
	PLOT DATE = 12/12/2019	DATE - 11/12/2019	REVISI			ILLINOIS FED. AID PROJECT					

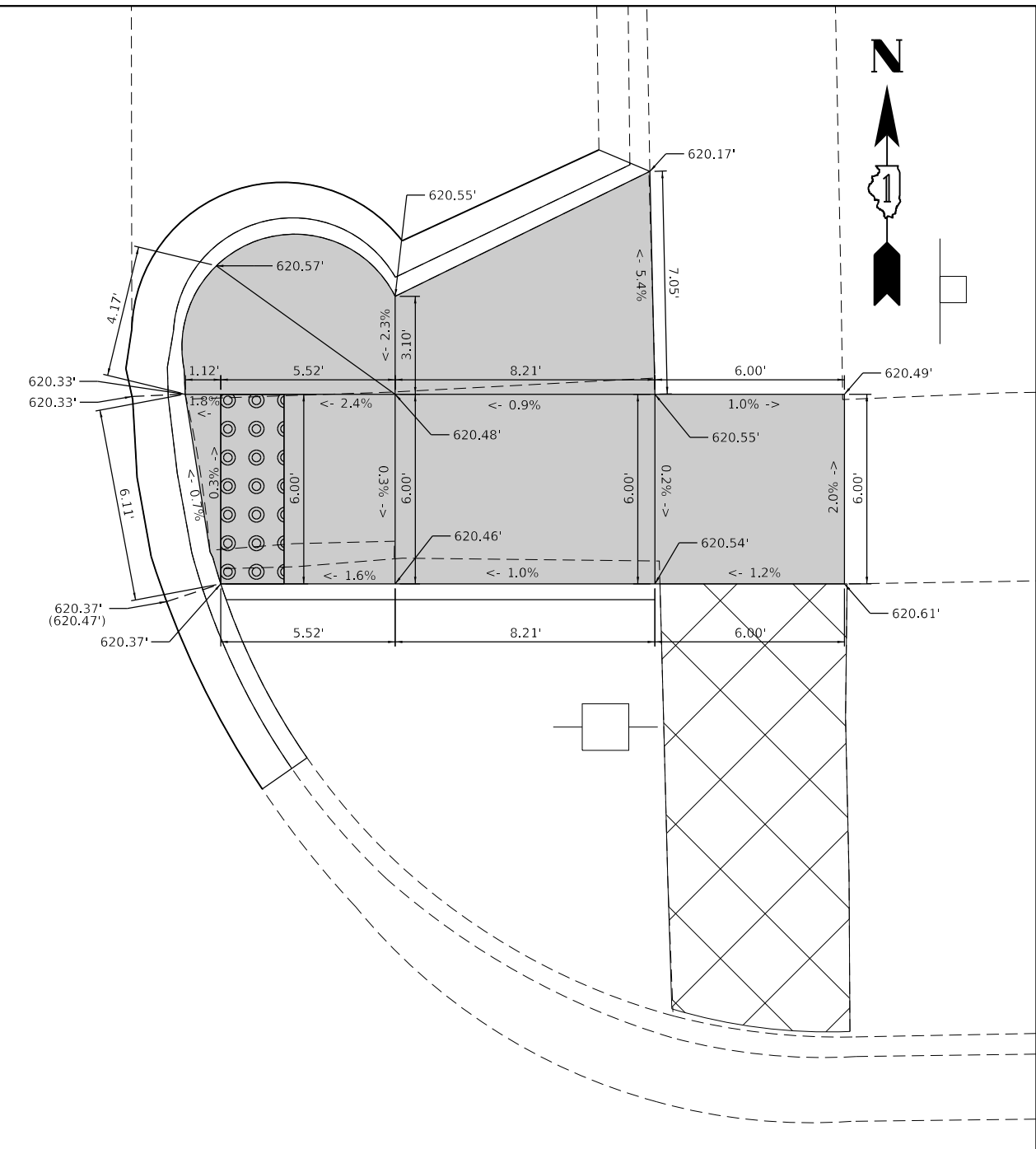
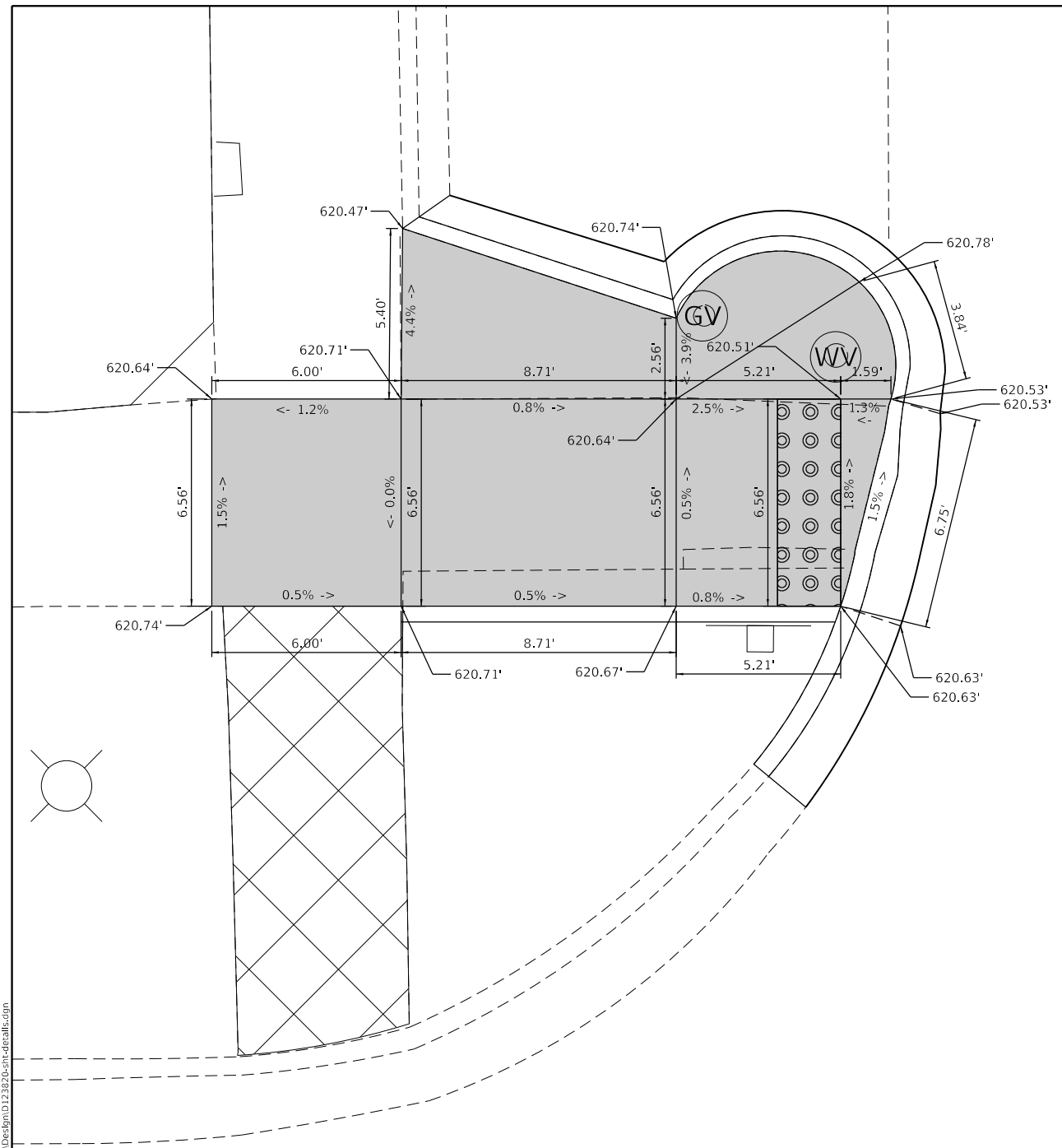


**REPLACE ALL DETECTOR LOOPS AS SHOWN  
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	309	FOOT

FILE NAME =	USER NAME = mezag	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT PLAN US 6 (159th STREET) AT RICHMOND / FRANCISCO AVE.</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
C:\Users\mezag\Desktop\Detector Loops\2019\62J70 (US 6-Cook)\CADD\TS 9700 -US 6 A	BROWN-D-FRANCISCO@VE.dgn	CHECKED - S.N.	REVISED -			351	2019-116-RS/SW	COOK	38	18	
Default	PLOT SCALE = 40.0000' / in.	DATE - 11/12/2019	REVISED -			CONTRACT NO. 62J70					
	PLOT DATE = 12/12/2019					ILLINOIS FED. AID PROJECT					

# CLIFTON PARK AVE.



# W. 159TH STREET

REFERENCE BENCHMARK ELEV 621.25  
 BENCHMARK : BOX IN S. CONC. BASE OF L. POLE  
 LOCATION : N.W. CORNER OF US 6 (159TH ST) & CLIFTON PARK AVE

### LEGEND

	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 621.25  
 BENCHMARK : BOX IN S. CONC. BASE OF L. POLE  
 LOCATION : N.W. CORNER OF US 6 (159TH ST) & CLIFTON PARK AVE

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USER NAME = rothjp	DESIGNED -	REVISED -
DRAWN -	REVISOR -	REVISION -
PLOT SCALE = 5,000' / in.	CHECKED -	REVISOR -
PLOT DATE = 2/26/2020	DATE -	REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ADA RAMP IMPROVEMENT DETAILS  
 US 6 (159TH ST) - IL 50 TO E/O I-294

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5&SW	COOK	38	19
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				



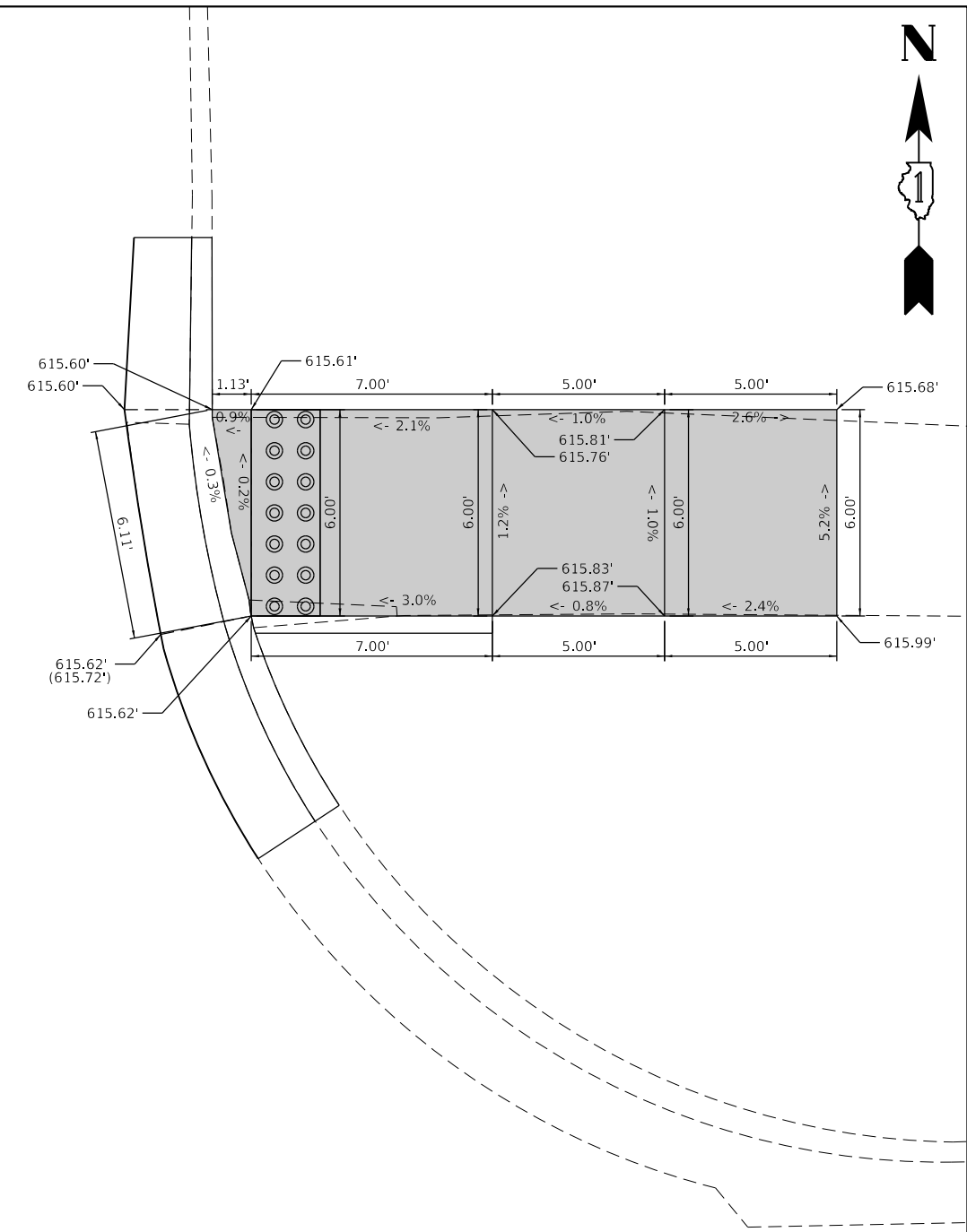
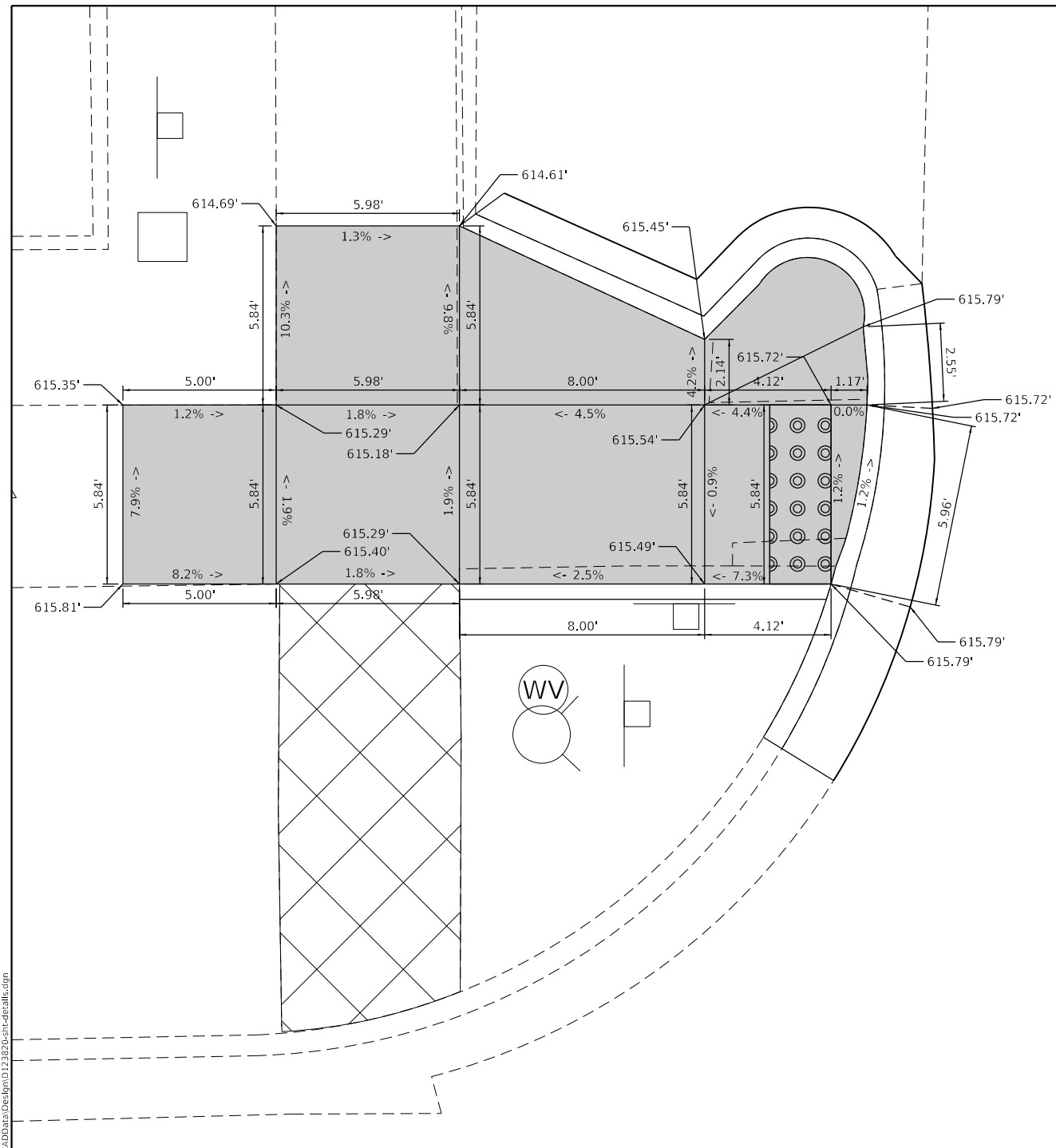








TURNER AVE.



W. 159TH STREET

REFERENCE BENCHMARK ELEV 616.83  
 BENCHMARK : BOX IN N.E. CORNER CONC. BASE OF TRAFFIC H.H.  
 LOCATION : N.W. CORNER OF US 6 (159TH ST) & TURNER AVE

LEGEND	
XX.XX'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Gray Box]	PROPOSED SIDEWALK
[Grid Pattern Box]	DETECTABLE WARNINGS
[Cross-hatch Pattern Box]	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 616.83  
 BENCHMARK : BOX IN N.E. CORNER CONC. BASE OF TRAFFIC H.H.  
 LOCATION : N.W. CORNER OF US 6 (159TH ST) & TURNER AVE

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USER NAME = rothjp	DESIGNED -	REVISED -
PLOT SCALE = 5,000' / in.	DRAWN -	REVISED -
PLOT DATE = 2/26/2020	CHECKED -	REVISED -
	DATE -	REVISED -

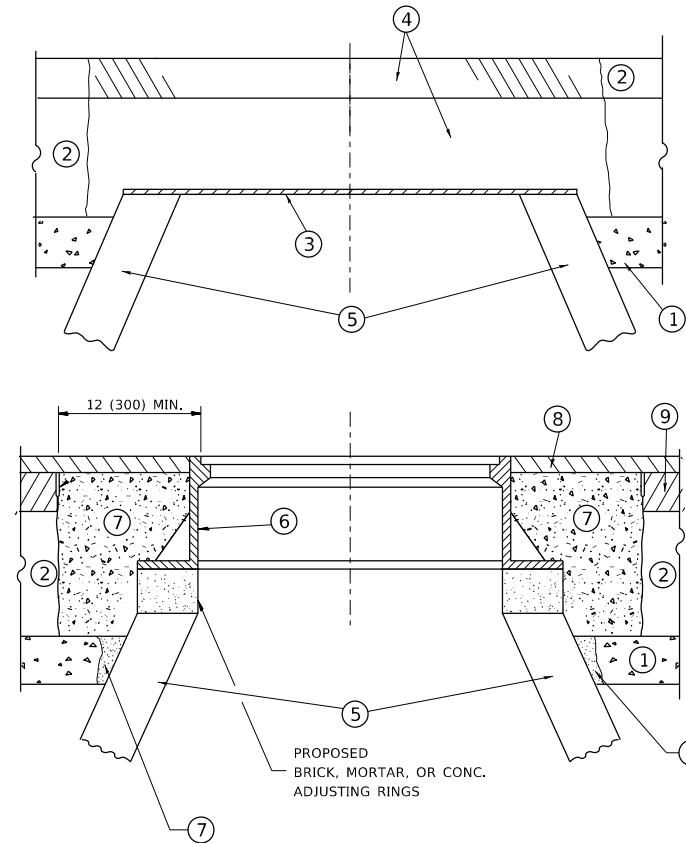
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ADA RAMP IMPROVEMENT DETAILS  
 US 6 (159TH ST) - IL 50 TO E/O I-294

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5&SW	COOK	38	24
CONTRACT NO. 62J70				
ILLINOIS FED. AID PROJECT				

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





**NOTES**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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.

**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 A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**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**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR \*FRAMES AND LIDS TO BE ADJUSTED (SPECIAL).\*

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

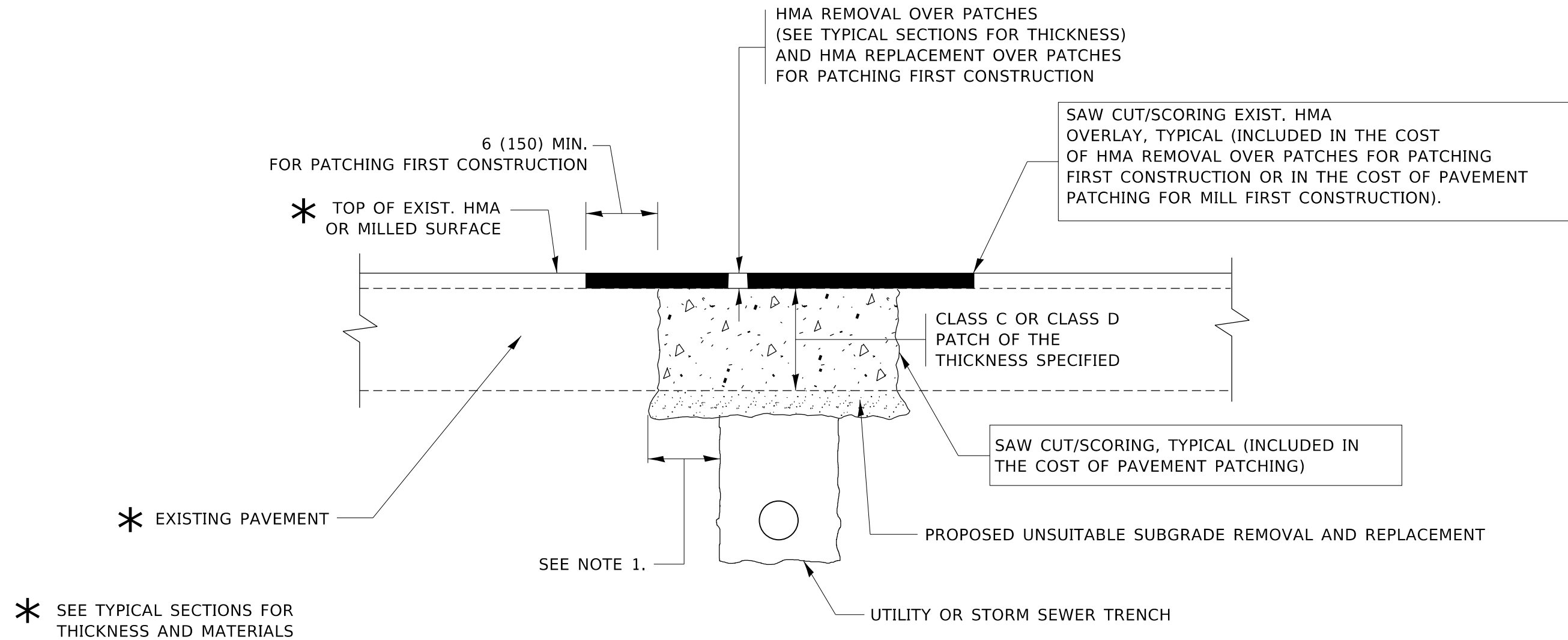
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILS FOR  
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	25
BD600-03 (BD-8)		CONTRACT NO. 62170		
ILLINOIS FED. AID PROJECT				

USER NAME = rothjp	DESIGNED - R. SHAH	REVISED - R. WEDEMAN 05-14-04
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 03-09-11
PLOT DATE = 1/31/2020	DATE - 10-25-94	REVISED - R. BORO 12-06-11



**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**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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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 1/31/2020	DATE - 10-25-94	REVISED - K. ENG 10-27-08

**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.
351	2019-116-R5/SW	COOK	38	26
BD400-04 (BD-22)			CONTRACT NO. 62170	
ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE 2)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE 2)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

¼" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE 1).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED ¾" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

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

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

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

**NOTE:**

- SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.  
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.
- CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

**BASIS OF PAYMENT**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

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

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

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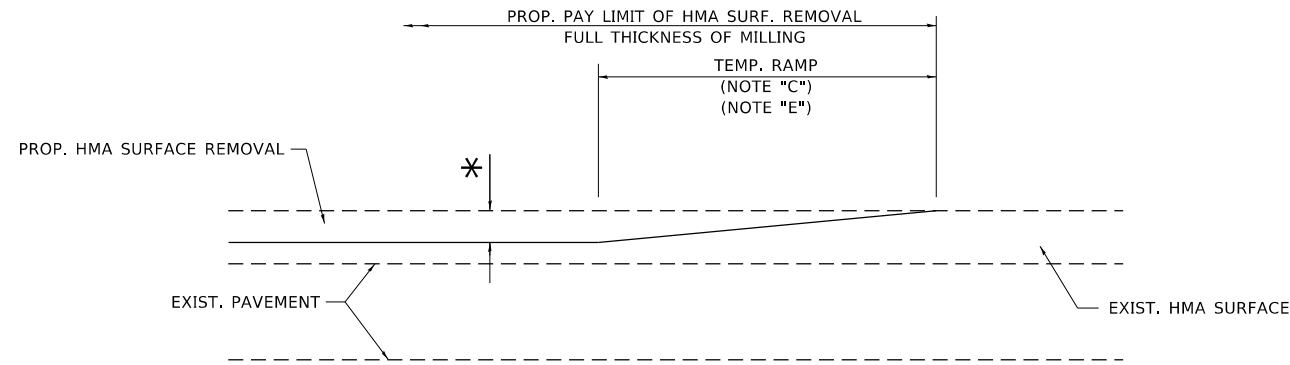
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	DRAWN -	REVISED - A. ABBAS 03-21-97
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PLOT DATE = 1/31/2020	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT

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

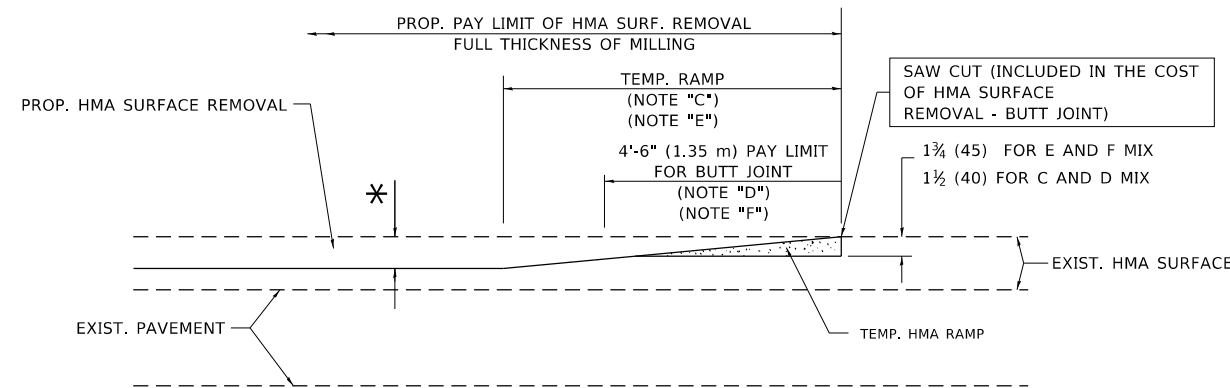
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	27
BD600-06 (BD-24)			CONTRACT NO. 62170	
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

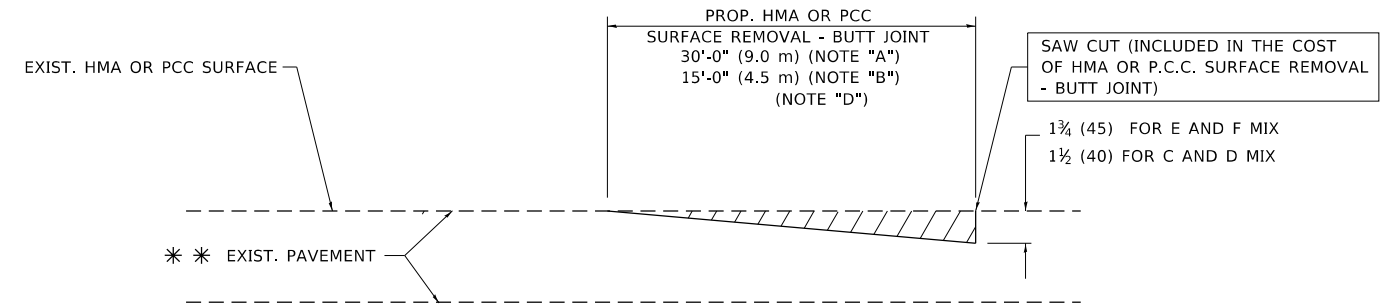


**HMA CONSTRUCTED TEMPORARY RAMP**

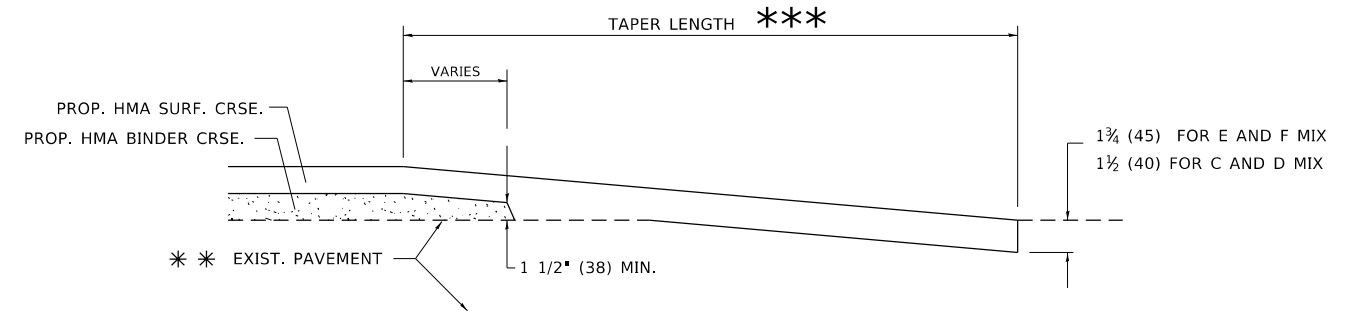
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

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

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

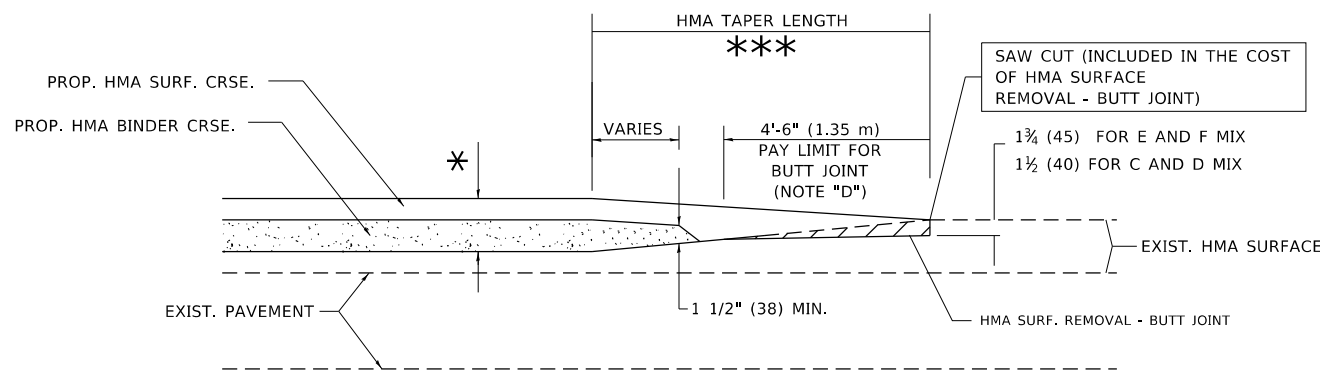
**NOTES**

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- 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'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. 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**

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".

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



**BUTT JOINT AND HMA TAPER**

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

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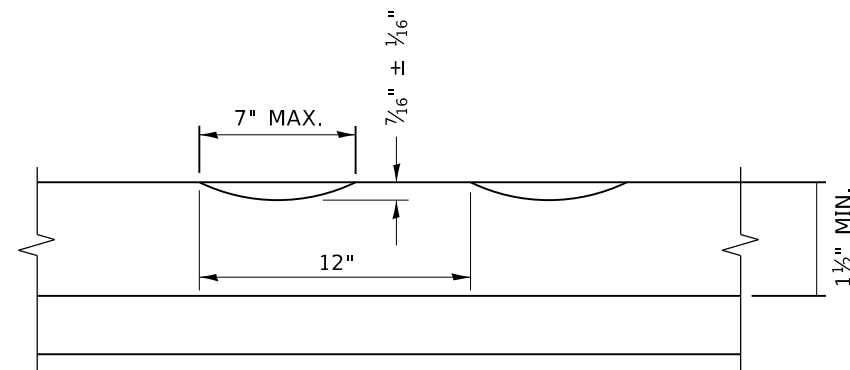
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	DRAWN -	REVISED - A. ABBAS 03-21-97
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PLOT DATE = 1/31/2020	DATE - 06-13-90	REVISED - R.BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

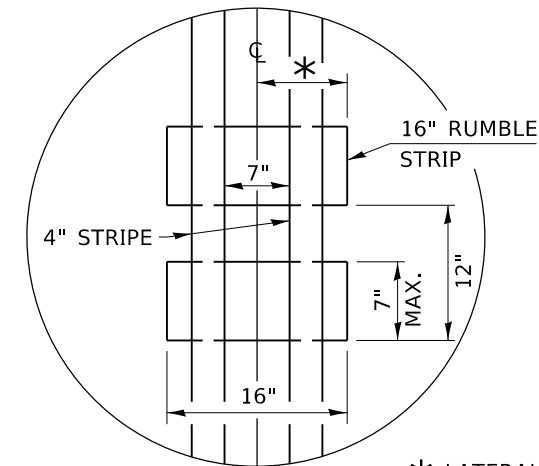
**BUTT JOINT AND HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	28
BD400-05 BD32		CONTRACT NO. 62170		
ILLINOIS FED. AID PROJECT				

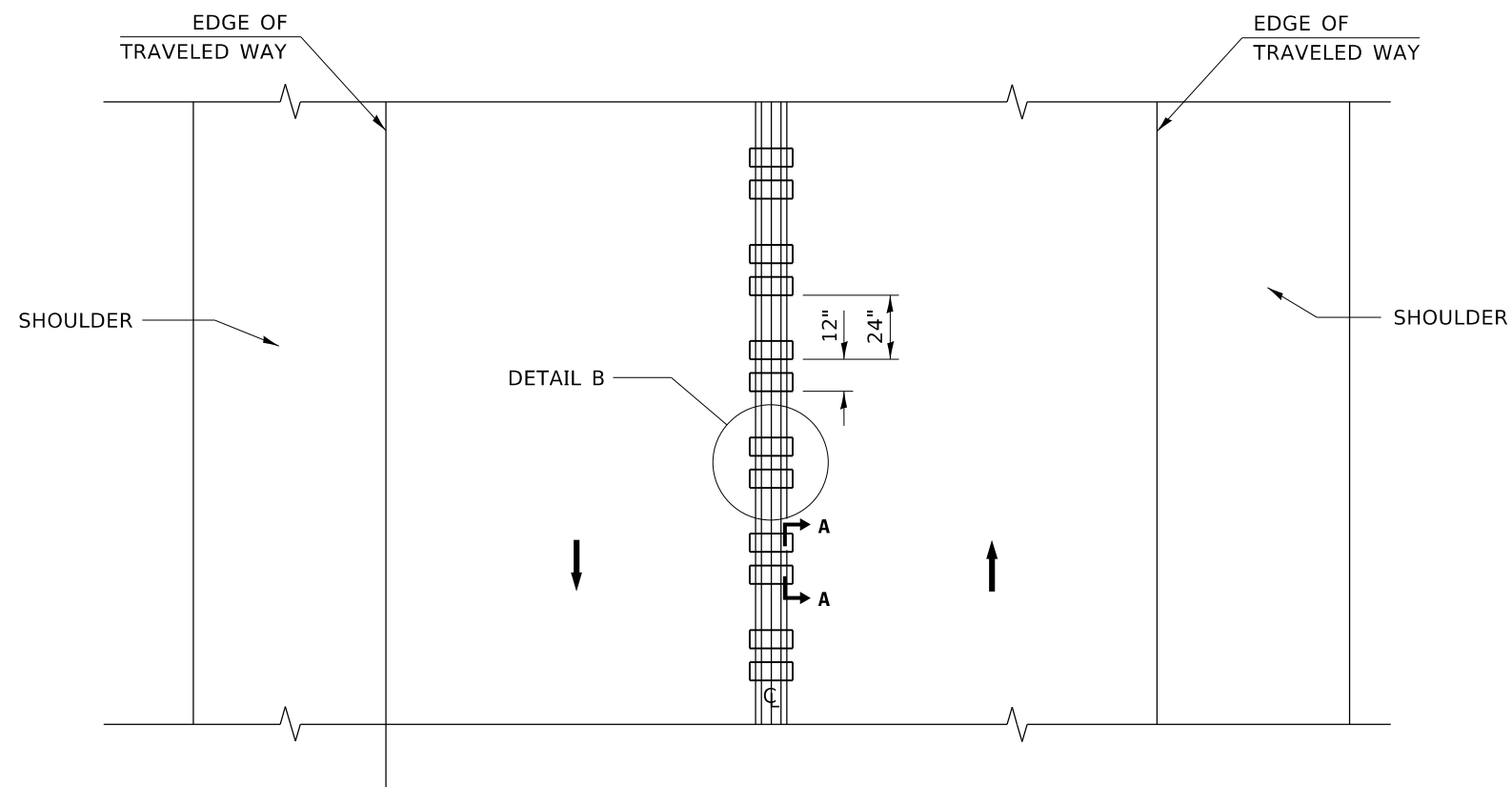


**SECTION A-A**



\* LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

**DETAIL B**



**TWO-WAY ROAD**

**GENERAL NOTES**

CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.

SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

ALL RUMBLE STRIPS SHALL BE MILLED.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.

AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEP CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.

WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

**BASIS OF PAYMENT**

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.

HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.

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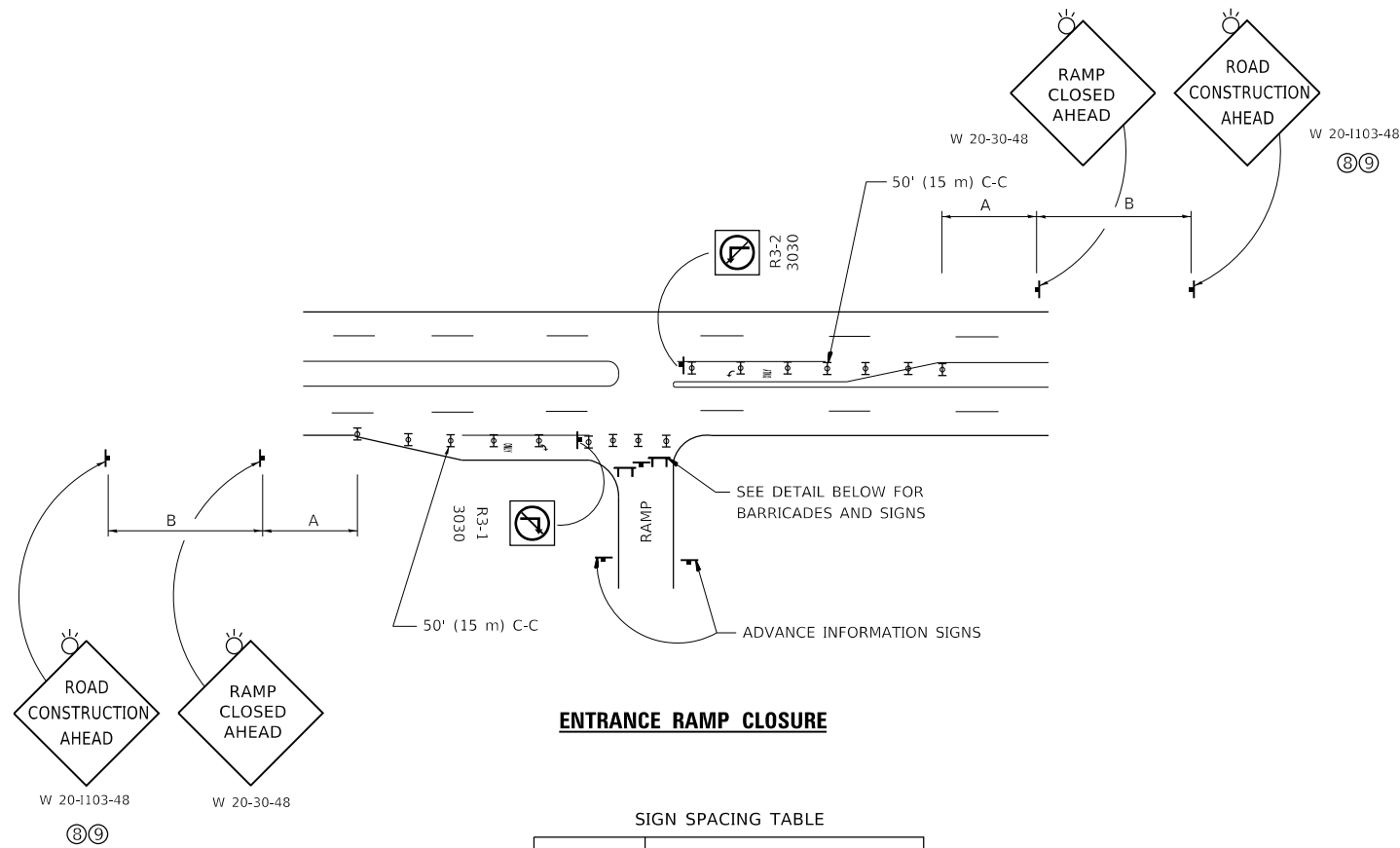
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/31/2020	DATE - 08-06-2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	29
<b>BD 55</b>			CONTRACT NO. 62170	
ILLINOIS FED. AID PROJECT				

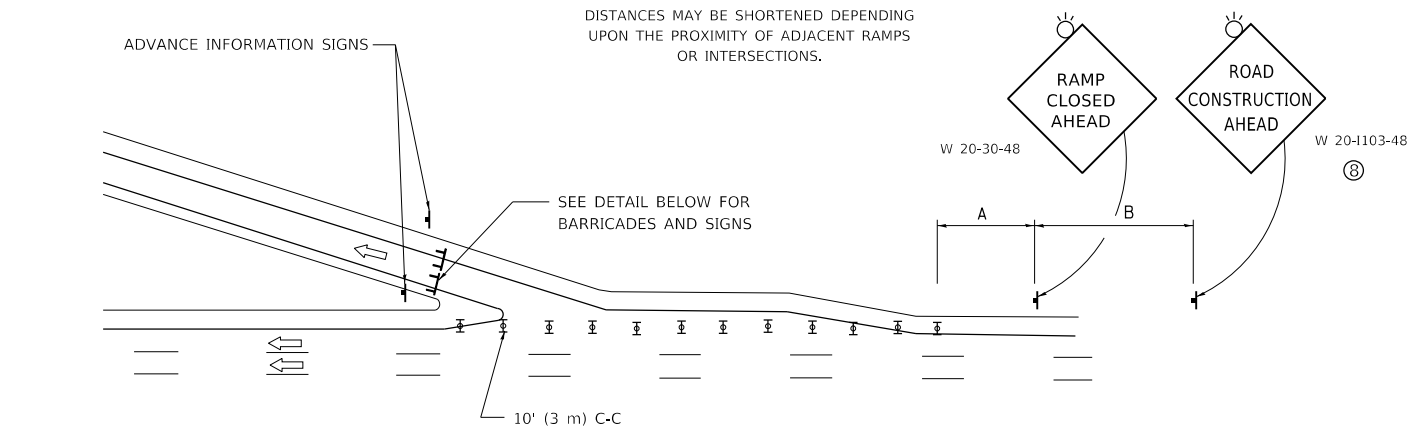


**ENTRANCE RAMP CLOSURE**

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

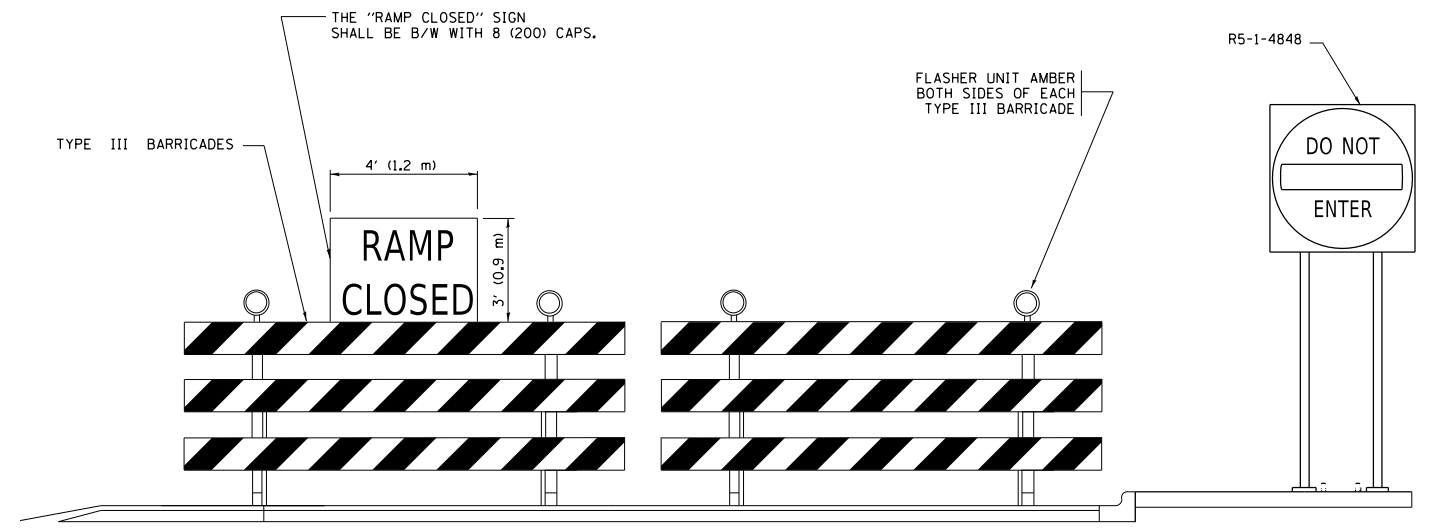
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

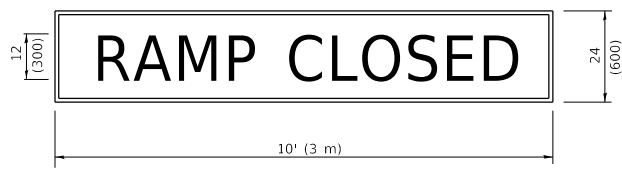
**SYMBOLS**

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

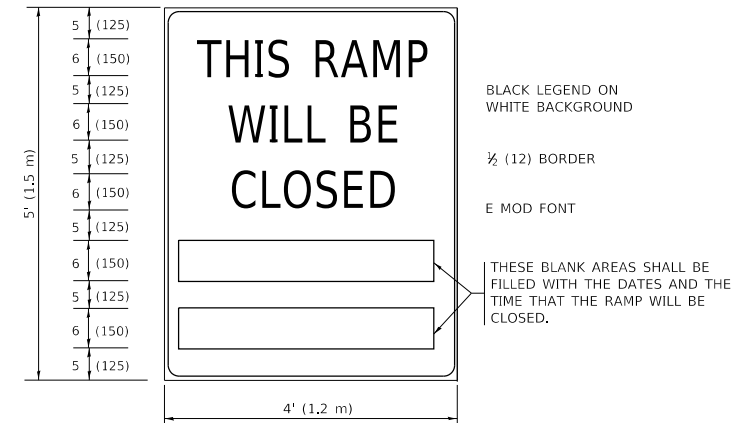
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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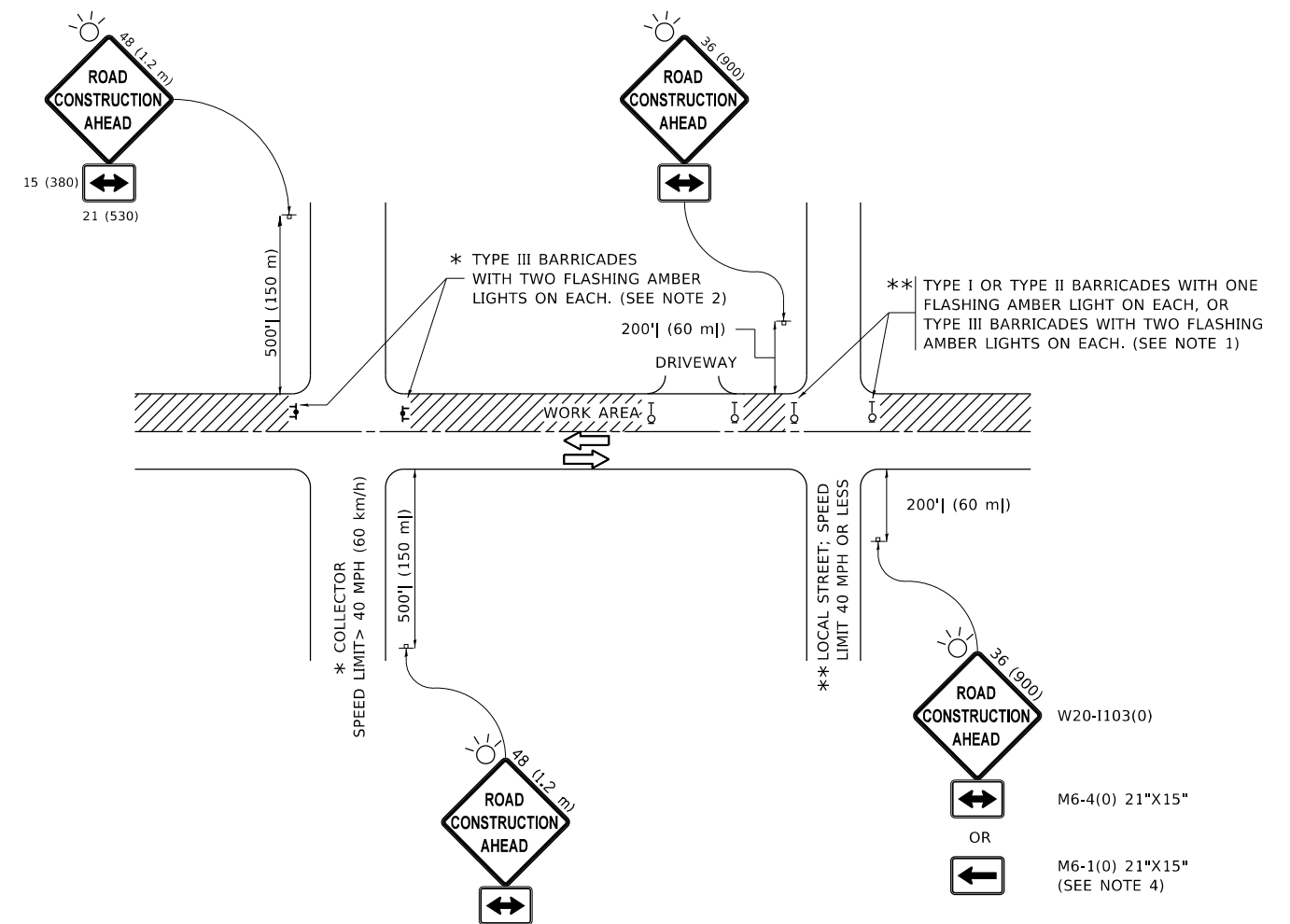
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PLOT DATE = 1/31/2020	CHECKED -	REVISED - M.D._06-13
	DATE - 02-83	REVISED - M.D._01-18

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE\_AND\_EXIT\_RAMP  
CLOSURE\_DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	30
<b>TC-08</b>			CONTRACT NO. 62170	
ILLINOIS		FED. AID PROJECT		



**NOTES:**

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

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

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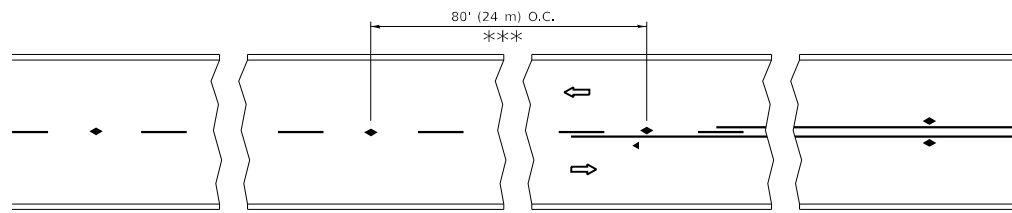
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PLOT DATE = 1/31/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

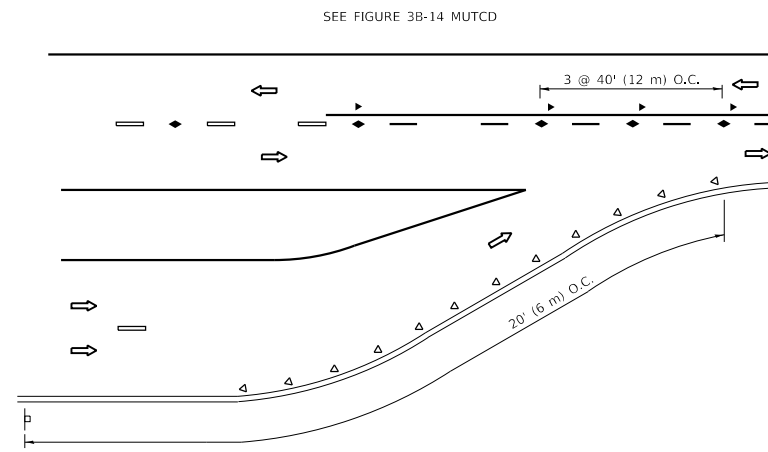
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>		CONTRACT NO. 62170		
ILLINOIS FED. AID PROJECT				

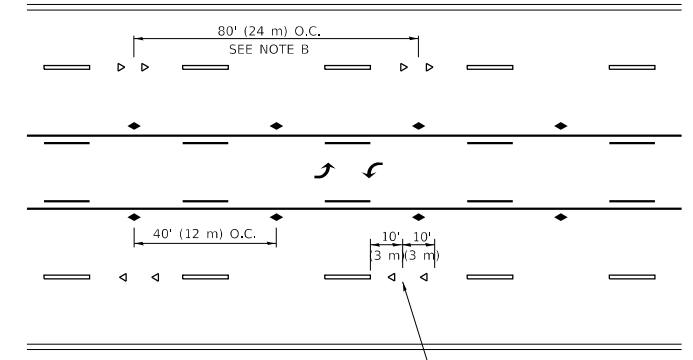


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

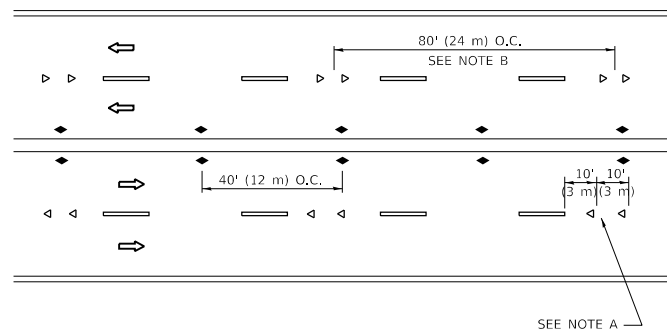
**TWO-LANE/TWO-WAY**



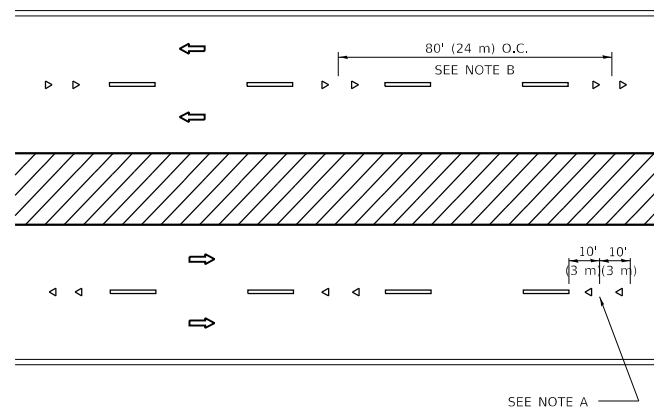
**LANE REDUCTION TRANSITION**



**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**

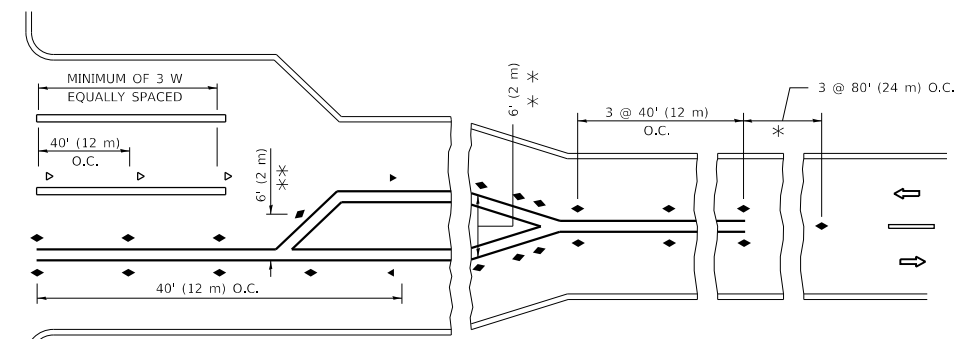
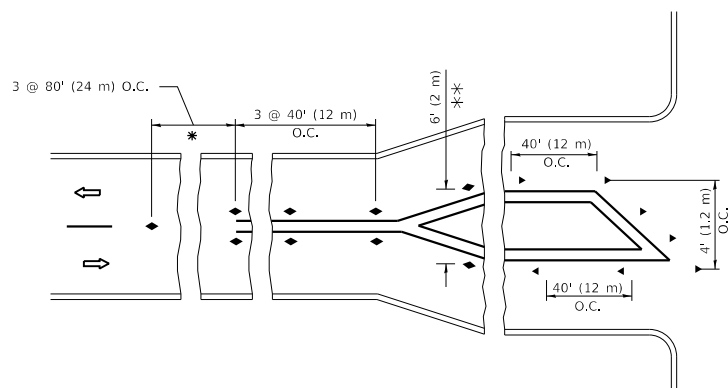
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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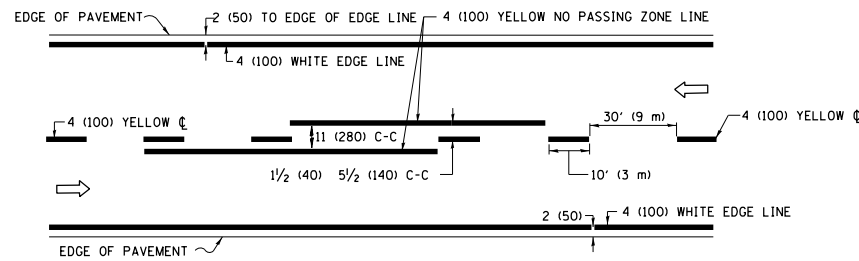
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

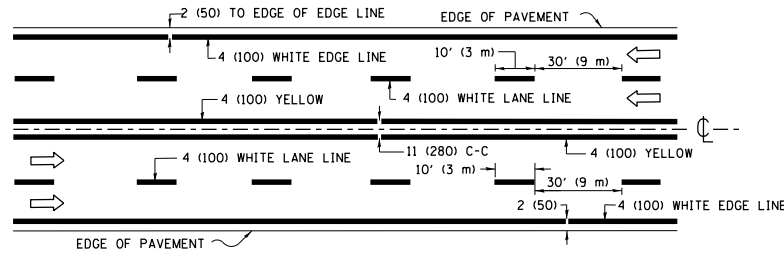
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	32
TC-11		CONTRACT NO. 62170		
ILLINOIS FED. AID PROJECT				

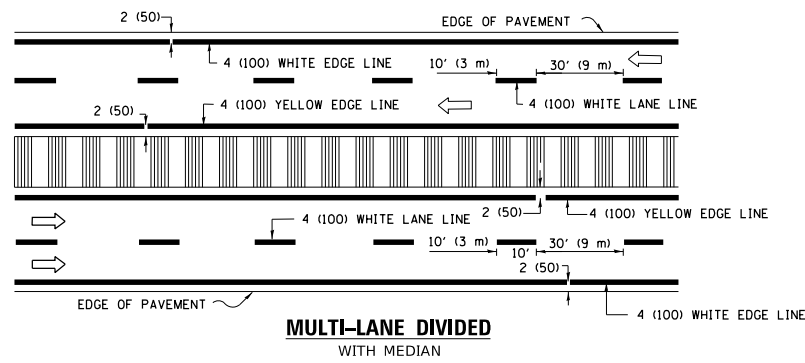




**2-LANE ROADWAY**

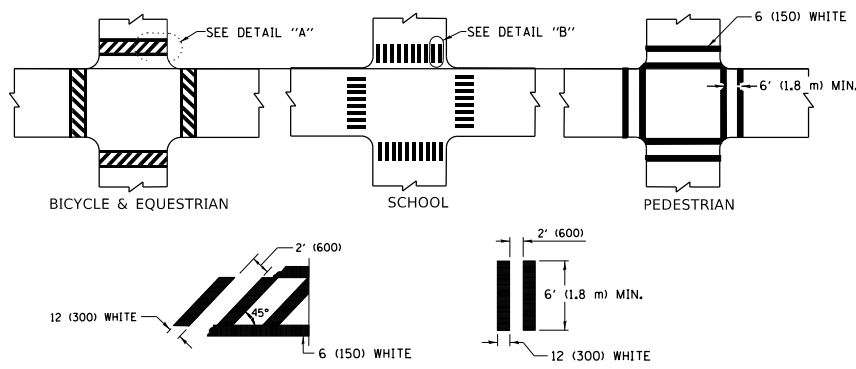


**MULTI-LANE UNDIVIDED**



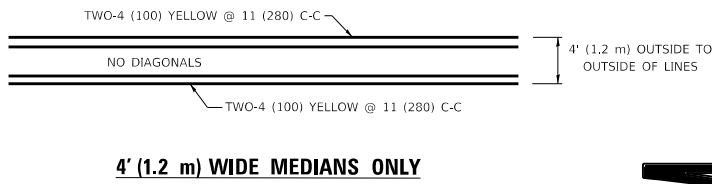
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

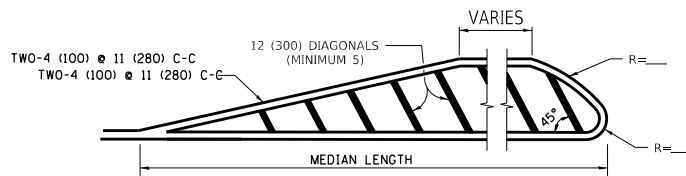


**TYPICAL CROSSWALK MARKING**

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

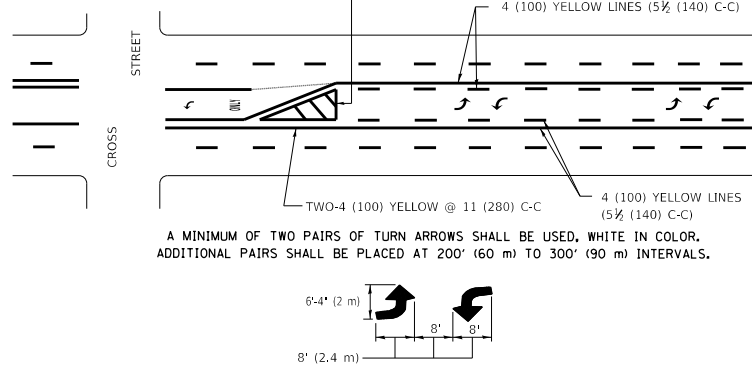


**4' (1.2 m) WIDE MEDIANS ONLY**



**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))



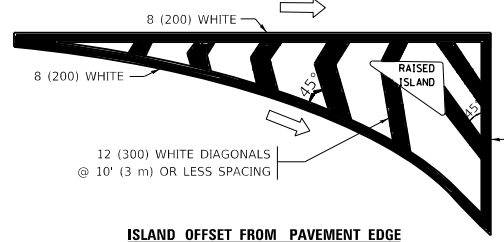
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

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>)

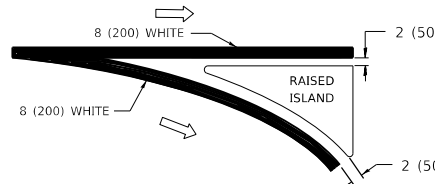
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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

**TYPICAL TURN LANE MARKING**

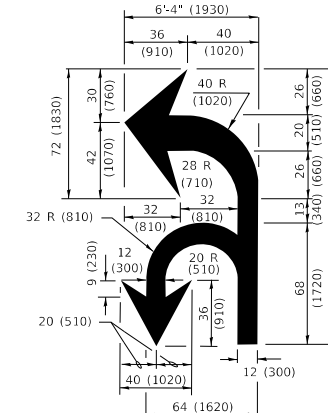


**ISLAND OFFSET FROM PAVEMENT EDGE**

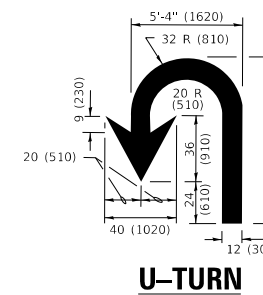


**ISLAND AT PAVEMENT EDGE**

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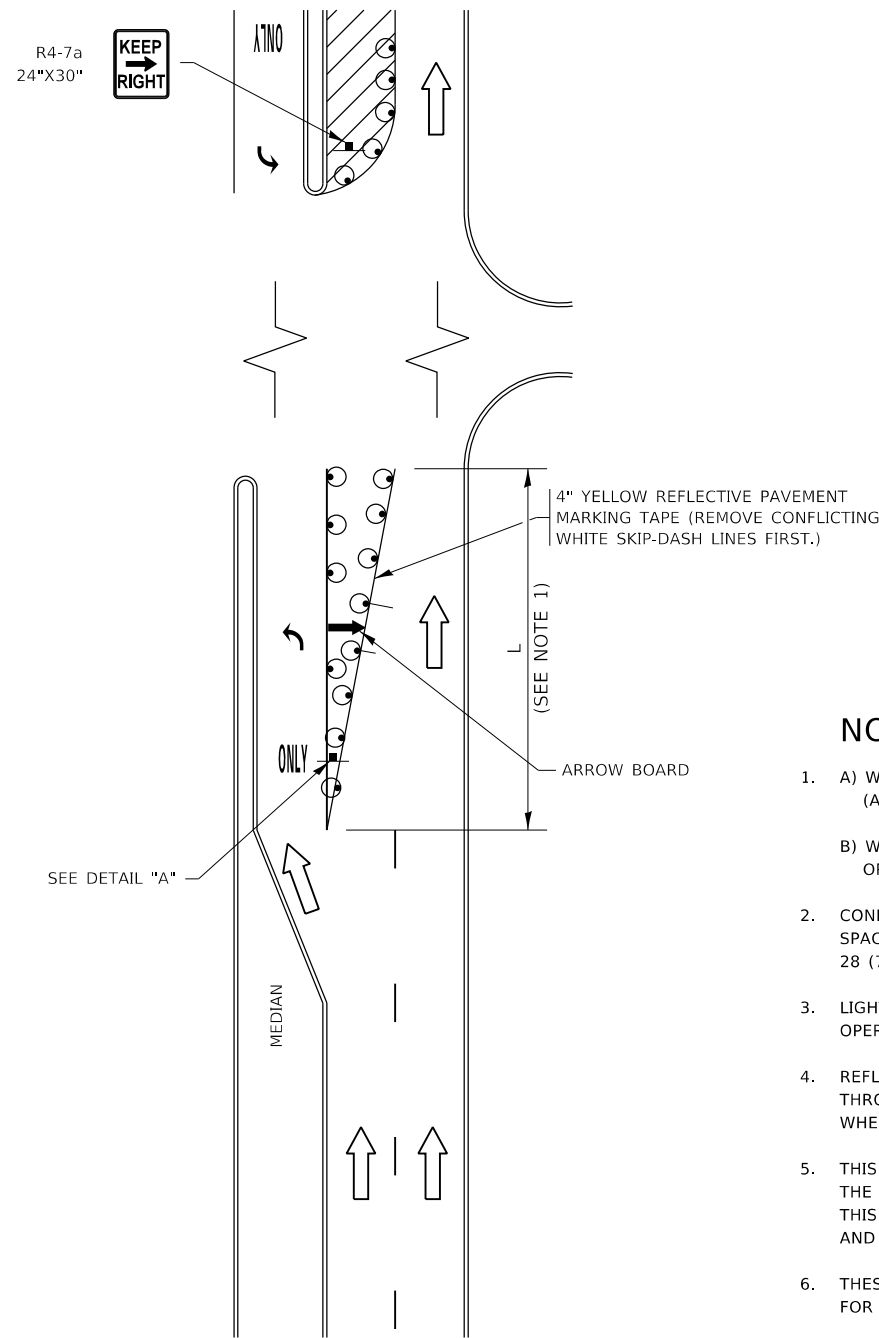
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

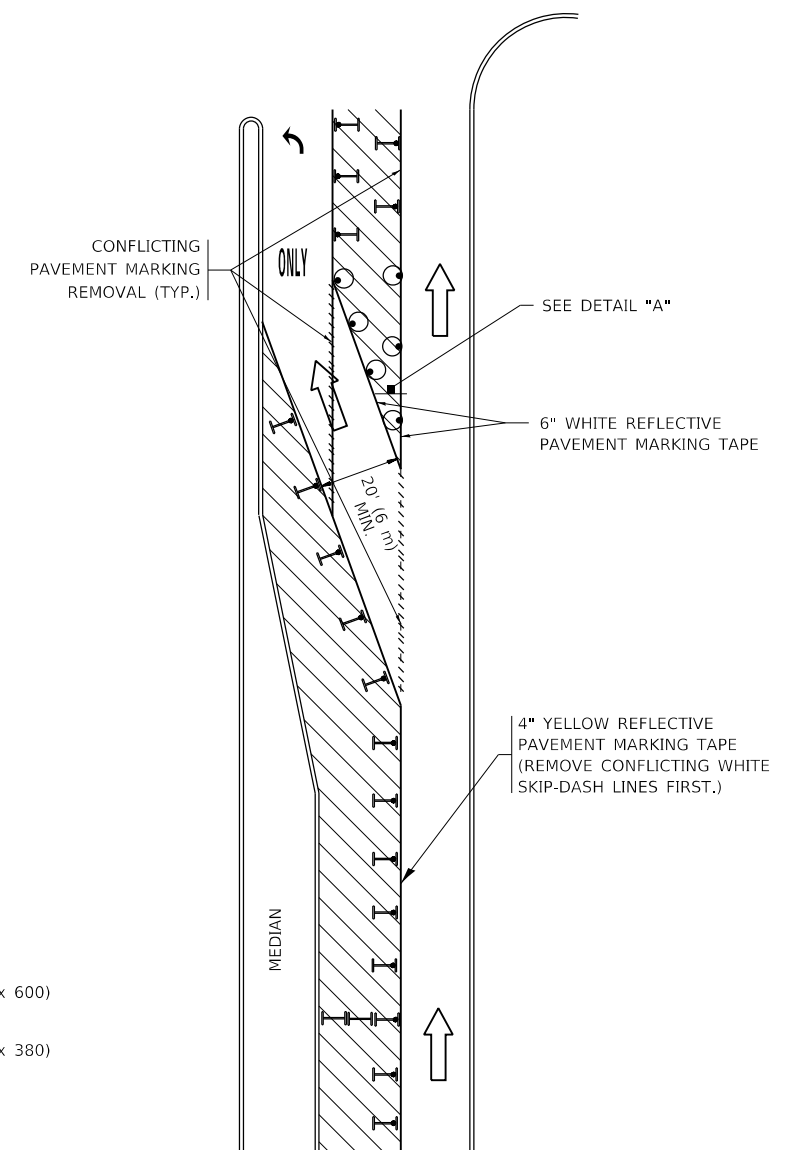
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-R5/SW	COOK	38	33
<b>TC-13</b>		<b>CONTRACT NO. 62170</b>		
ILLINOIS		FED. AID PROJECT		

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



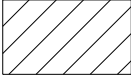






**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



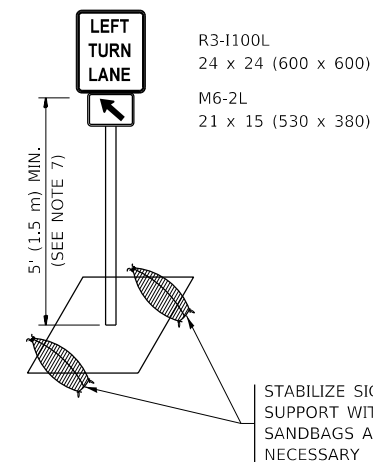
**FIGURE 2**

## 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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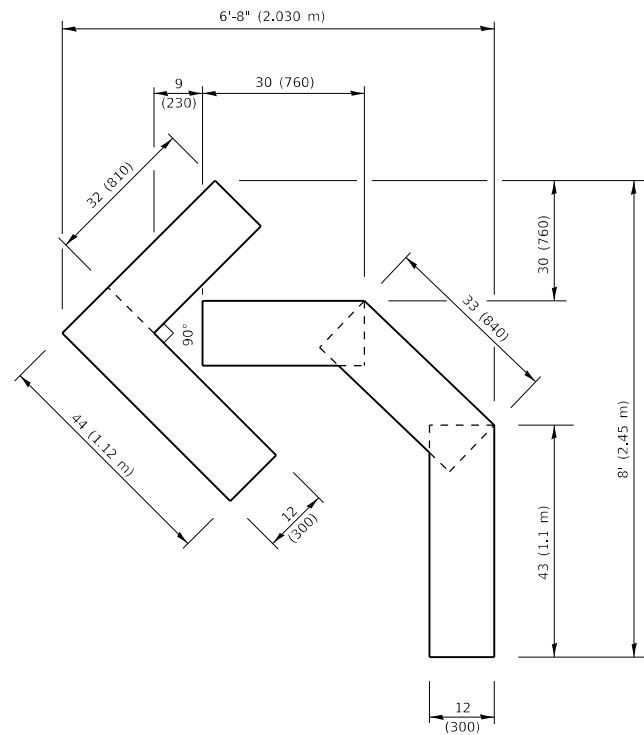
USER NAME = rothjp	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 1/31/2020	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

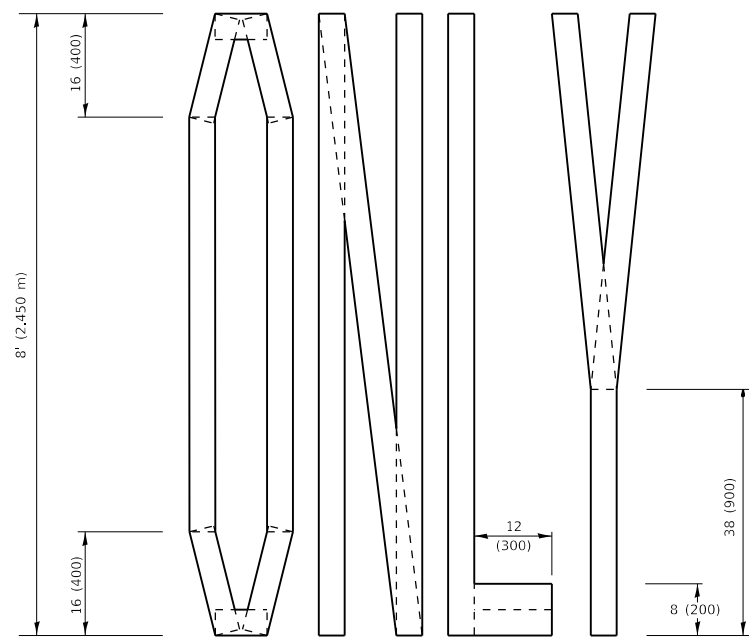
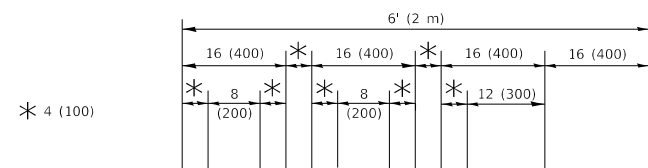
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 351	SECTION 2019-116-R5/SW	COUNTY COOK	TOTAL SHEETS 38	SHEET NO. 34
TC-14		CONTRACT NO. 62170		
ILLINOIS FED. AID PROJECT				



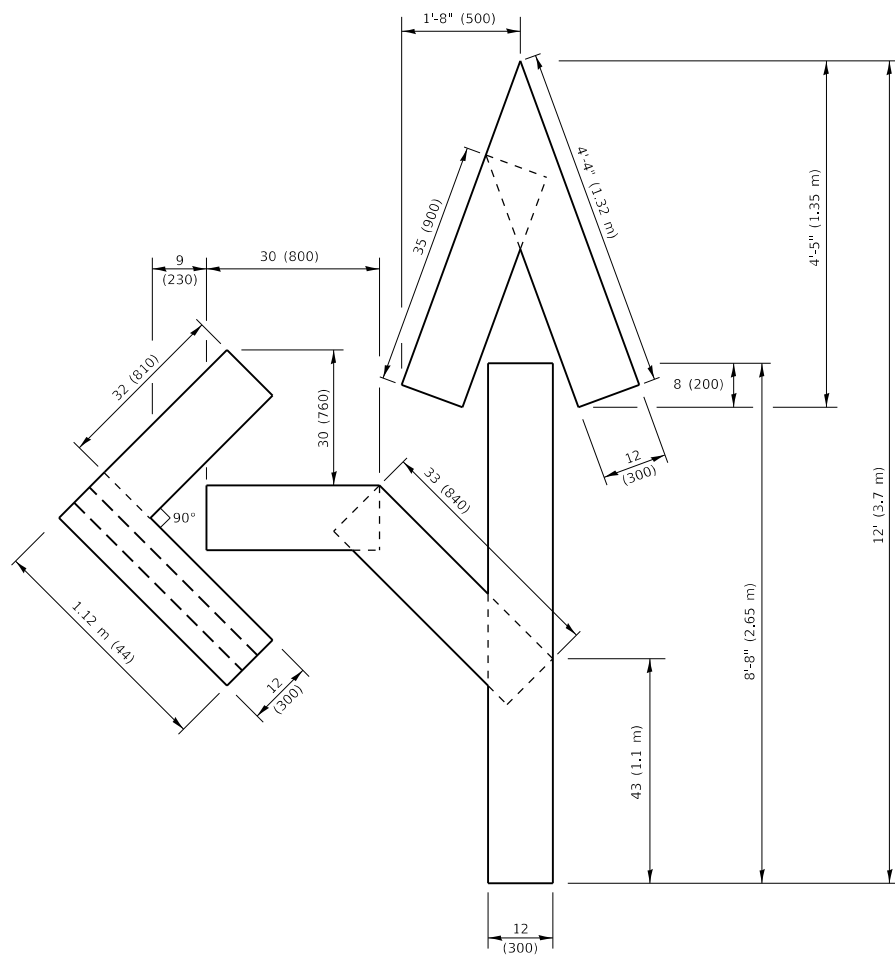
**QUANTITY**

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



**QUANTITY**

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

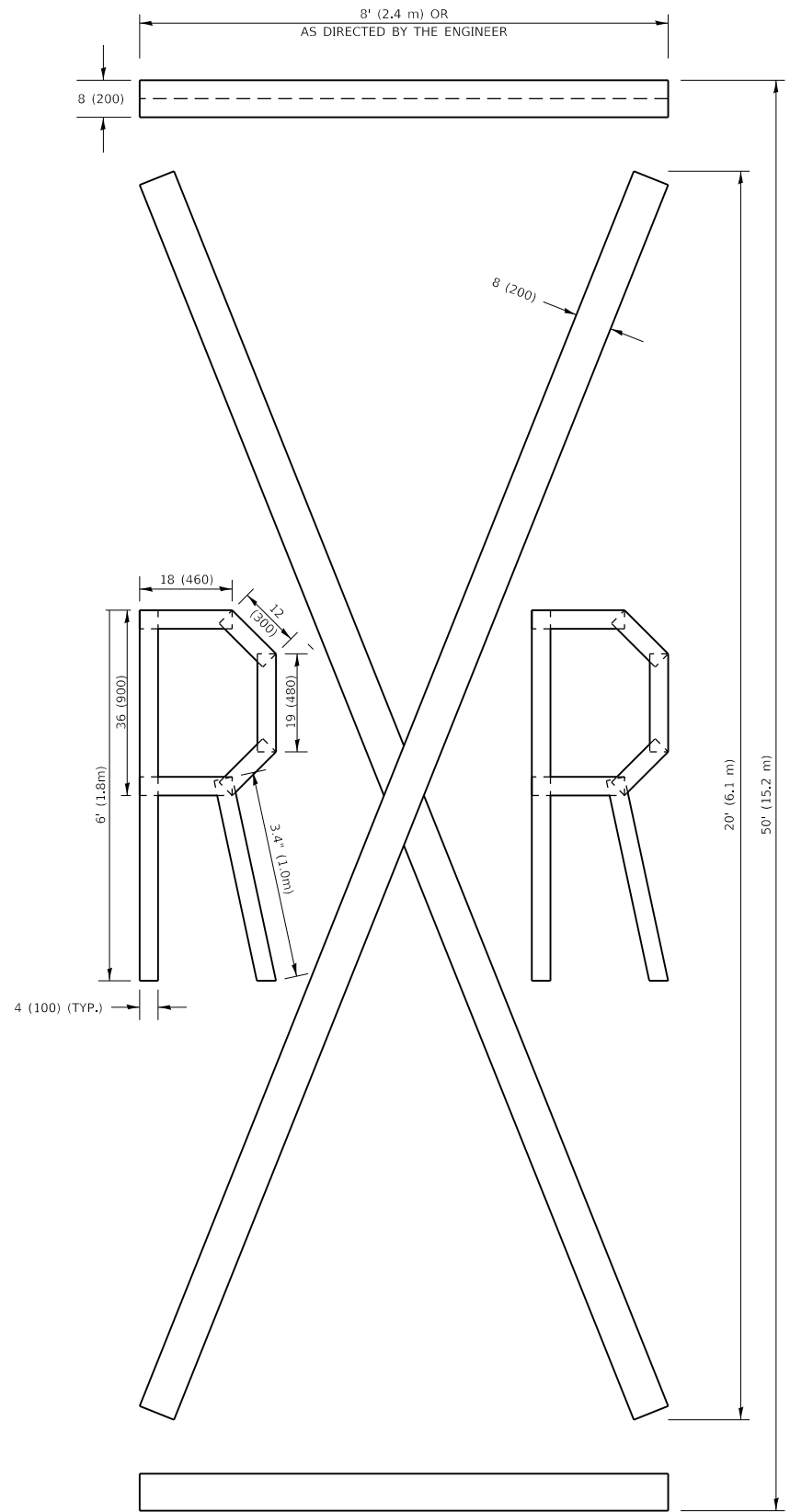


**QUANTITY**

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

**NOTE:**

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



**QUANTITY**

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

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

MODEL: Default  
FILE: \\hpc1\pub\baroncom.d\allinks\poc\PROJECTS\DOT Documents\DOT Offices\Director - Projects\123820\CADD\Drawings\Design\DRS\4.dgn

USER NAME = rothjp	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 1/31/2020	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

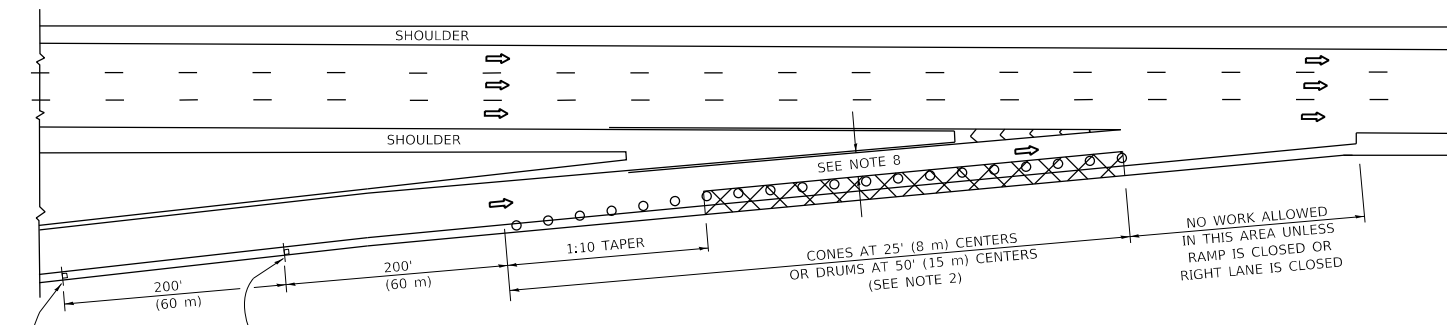
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

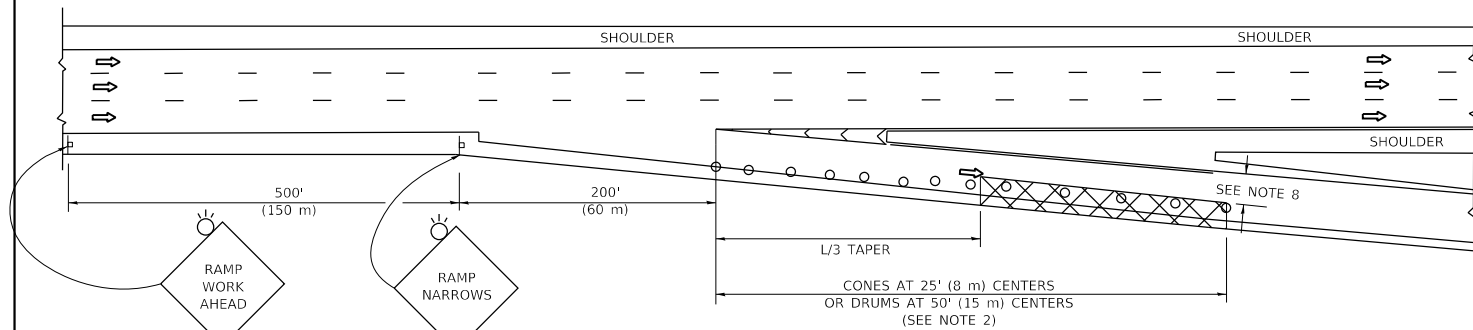
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	35
<b>TC-16</b>		CONTRACT NO. 62170		
ILLINOIS FED. AID PROJECT				

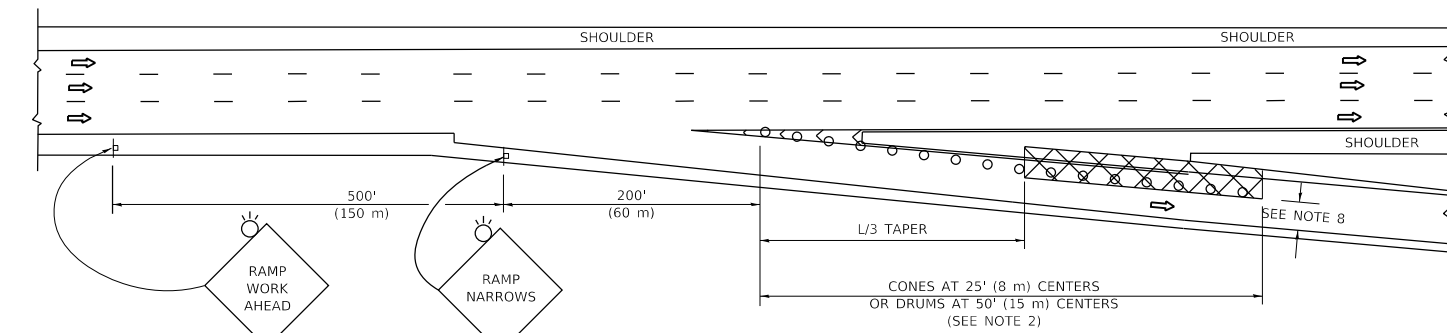
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

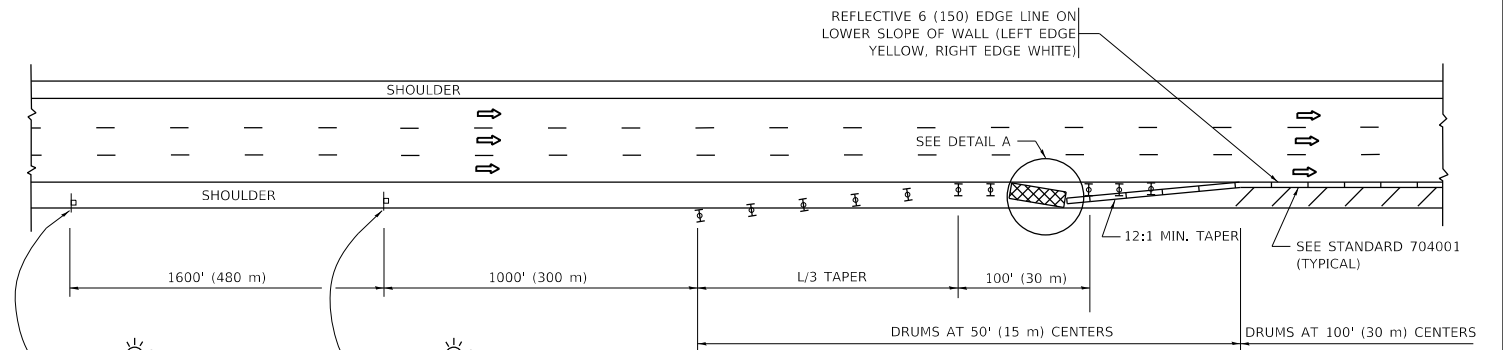
**GENERAL NOTES:**

- THE "L" DISTANCE EQUALS:  

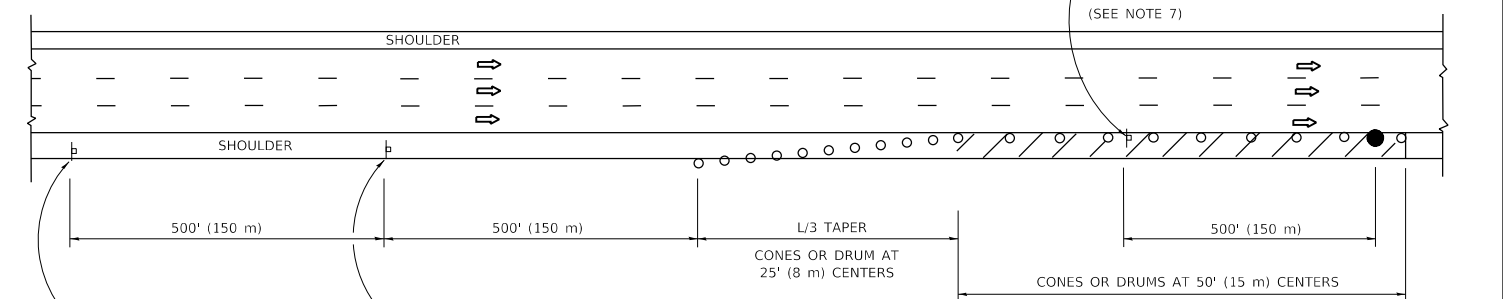
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L = 0.65(W)(S)$ $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)  
 S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

**SHOULDER CLOSURE DETAILS**

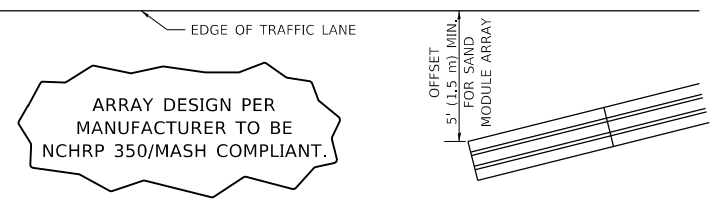


**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"  
 IMPACT ATTENUATOR, TEMPORARY  
 (SEE NOTE 5)

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

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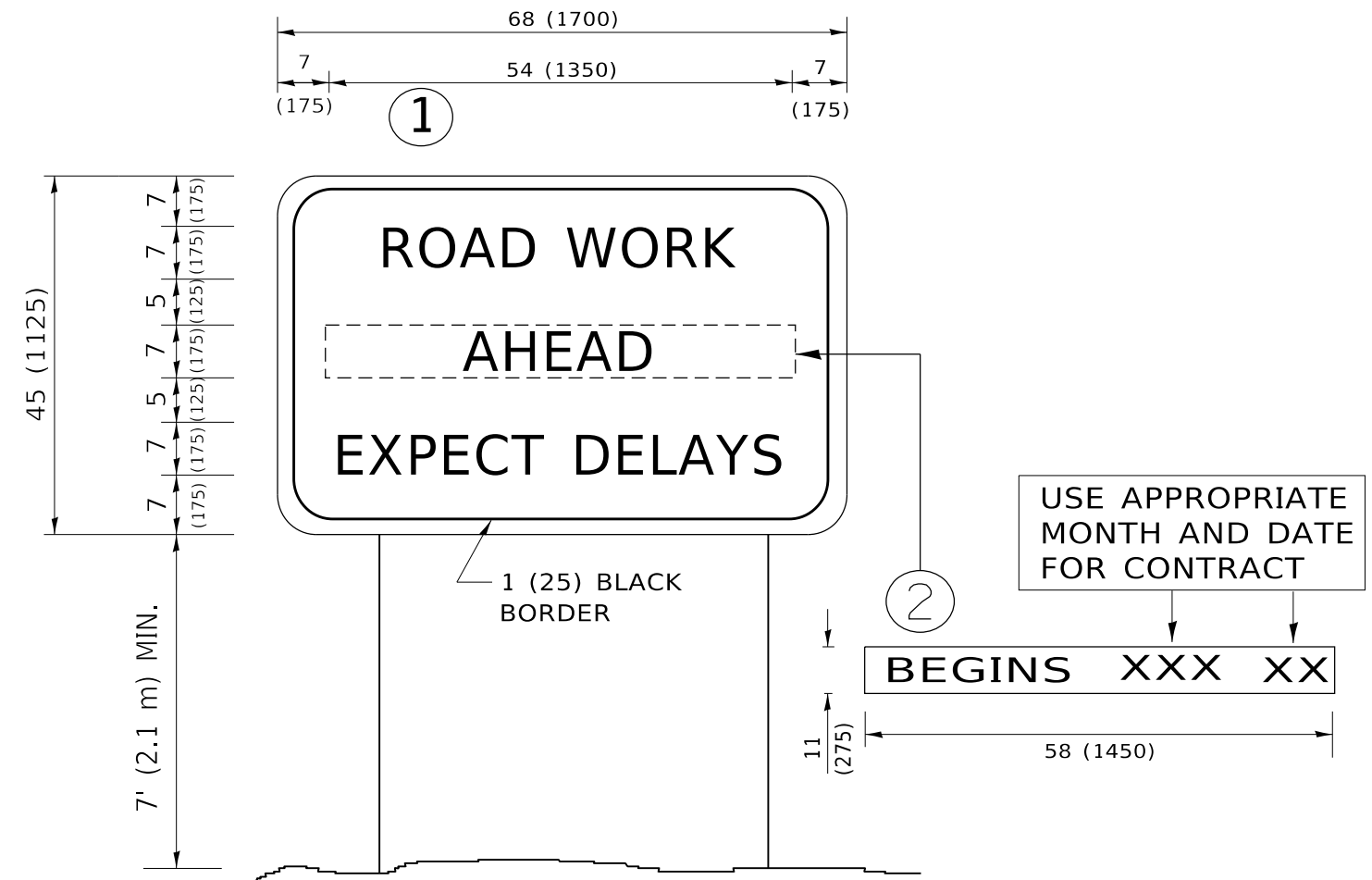
USER NAME = rothjp	DESIGNED -	REVISED - S.P.B. 01-07
	DRAWN - D.W.S.	REVISED - S.P.B. 12-09
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M.D. 06-13
PLOT DATE = 1/31/2020	DATE - 11-96	REVISED - M.D. 01-18

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY  
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	36
<b>TC-17</b>		CONTRACT NO. 62170		
ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

MODEL: Default  
 FILE: \\nas01c.pw.state.il.us\pub\haronom.dta\illinois.gov\PW\DOT\Documents\DOT\_Offices\Dir\etct\_1\Project\ID 123820\CADD\Drawings\Design\DRS\4.dgn

USER NAME = rothjp	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 1/31/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

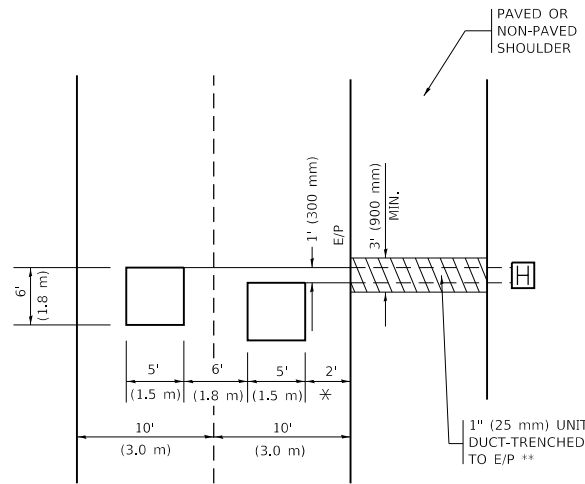
**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	37
<b>TC-22</b>		CONTRACT NO. 62170		
		ILLINOIS FED. AID PROJECT		

**LOOPS NEXT TO SHOULDERS**

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



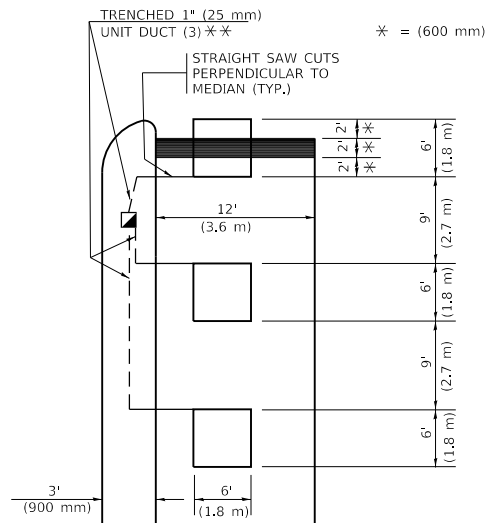
\* = (600 mm)

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

**LEFT TURN LANES WITH MEDIANS**

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

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



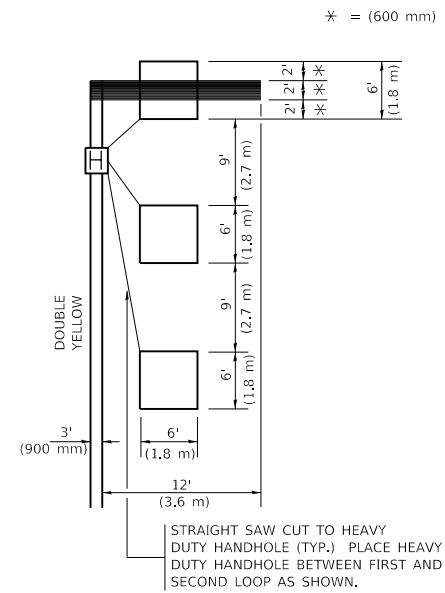
\* = (600 mm)

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

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

**LEFT TURN LANES WITHOUT MEDIANS**

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



\* = (600 mm)

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

**NOTES:**

**VEHICLES LOOP DETECTORS**

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR 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.

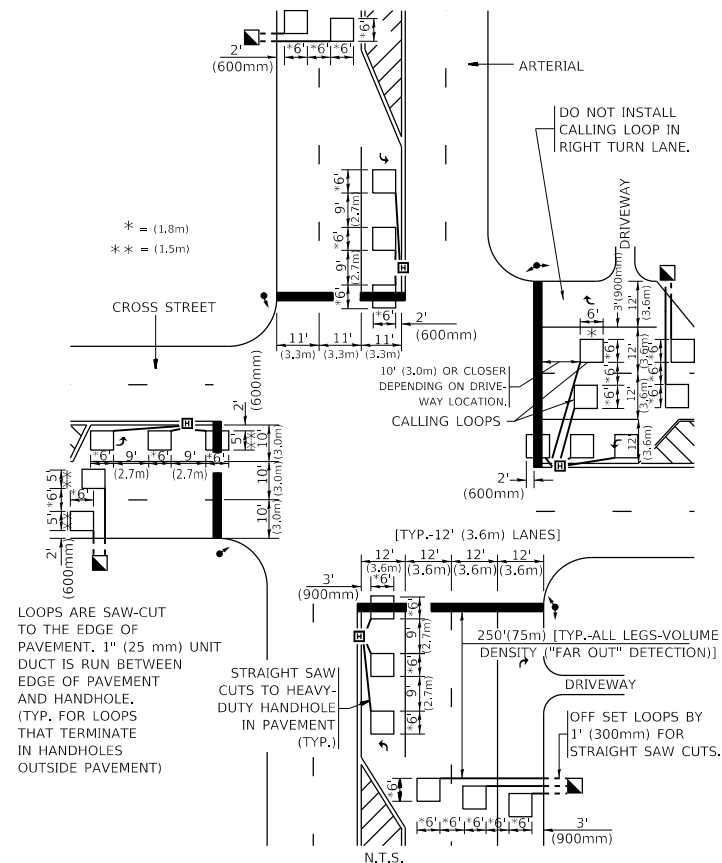
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

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



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

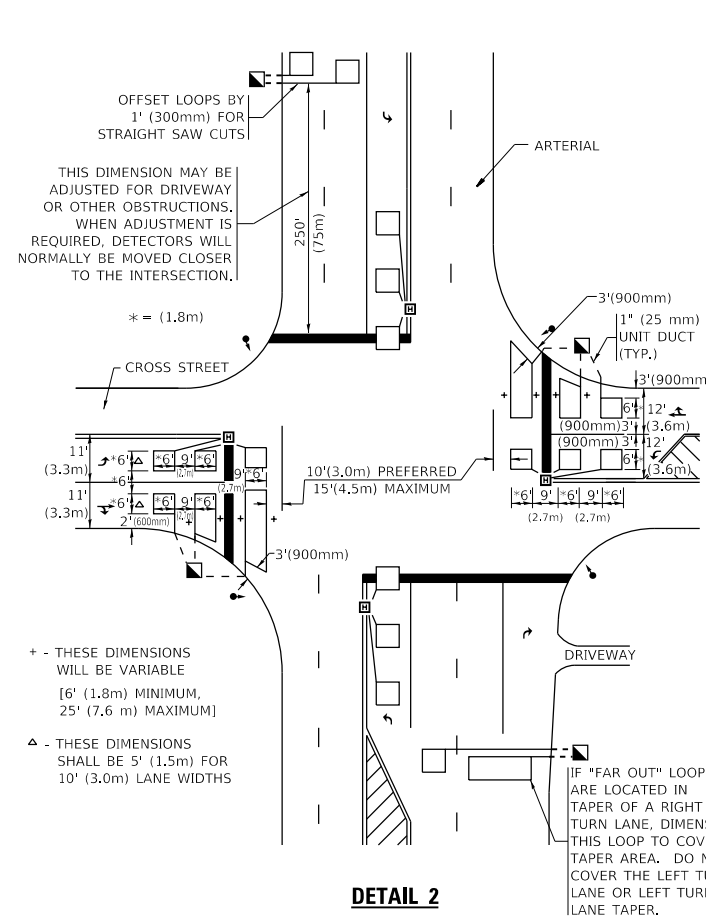
LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

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)**



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]

△ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

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

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

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2019-116-RS/SW	COOK	38	38
<b>TS-07</b>		CONTRACT NO. 62170		
		ILLINOIS	FED. AID PROJECT	