

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-RS&SW	COOK	31	1
		ILLINOIS	CONTRACT NO. 62L26	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN VILLAGES OF BROOKFIELD, MCCOOK, AND LYONS

**PROPOSED
HIGHWAY PLANS**

F.A.U. 1488: 47TH STREET
PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)
SECTION: 2020-054-RS&SW

STANDARD OVERLAY, ADA IMPROVEMENTS

PROJECT: STP-P45F-(785)
COOK COUNTY

C-91-244-20

R 12 E

TRAFFIC DATA:

2018 ADTS:
PLAINFIELD ROAD TO IL ROUTE 171: 19,600
IL ROUTE 171 TO IL ROUTE 43: 6,400

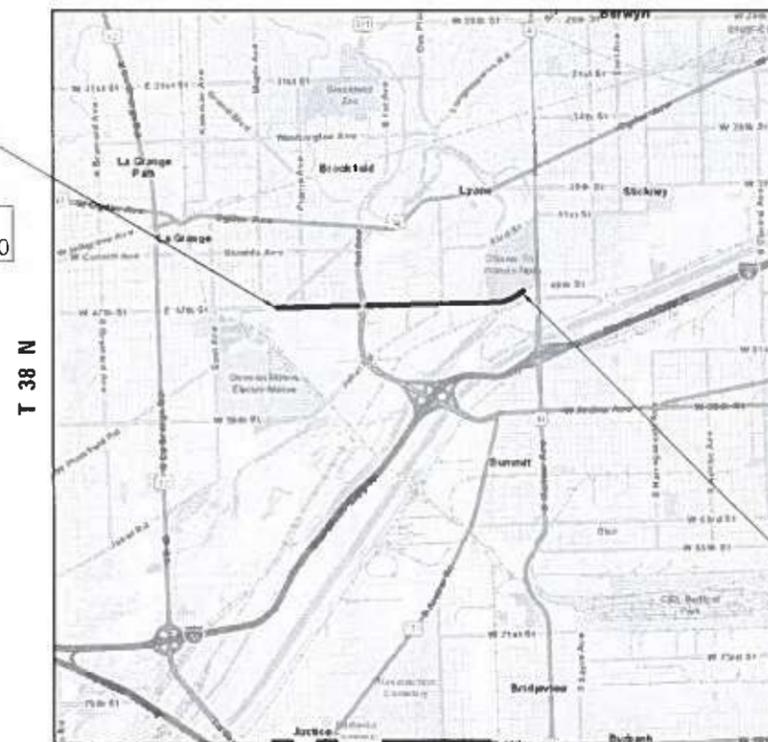
POSTED SPEED LIMIT = 25 - 40 MPH

DESIGN DESIGNATION:

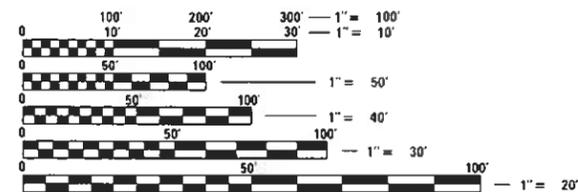
MINOR ARTERIAL (PLAINFIELD ROAD TO IL ROUTE 171)
MAJOR COLLECTOR (IL ROUTE 171 TO IL ROUTE 43)

BEGIN PROJECT:
STA. 13+40.00

OMISSIONS:
STA. 114+14.20 TO 119+70.10



END PROJECT:
STA. 133+50.00



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: DAN WILGREEN (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

GROSS LENGTH = 12,010.0 FT = 2.275 MILE
NET LENGTH = 11,454.1 FT = 2.169 MILE

CONTRACT NO. 62L26

D-91-437-20



LOCATION OF SECTION INDICATED THIS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 6, 2020
Anthony J. Danzig, P.E. REGIONAL ENGINEER

December 4, 2020

ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND VILLAGES OF BROOKFIELD, MCCOOK, AND LYONS.
4. THE CONTRATOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. 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.
6. 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.
7. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
8. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
9. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
10. DRAINAGE ADJUSTEMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
12. 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.
13. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
14. THE RESIDENT ENGINEER SHALL CONTACT EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT EMAD.ALHUSSEINI@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
15. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
16. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULATIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MISTURE IS PLACED.
17. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
18. 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 SEPERATE PAY ITEM HAS BEEN PROVIDED.
19. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
20. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
21. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
22. THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.
23. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 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) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
24. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX APSHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
25. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
26. CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK. LIMITS OF WORK SHALL BE LAID OUT PRIOR TO SELECTING TREES TO SAVE WITHIN LIMITS.

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USER NAME = rostkowski	DESIGNED - RR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - RR	REVISED -		47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)		1488	2020-054-R5&SW	COOK	31	3	
PLOT SCALE = 100,0000' / in.	CHECKED - DW	REVISED -		SCALE: -	SHEET 1	OF 1	SHEETS	STA. -	TO STA. -	CONTRACT NO. 62L26	
PLOT DATE = 10/15/2020	DATE - 10/16/2020	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED 20% STATE COOK COUNTY	0005 ROADWAY 100% STATE COOK COUNTY			
20200100	EARTH EXCAVATION	CU YD	65	65				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	121	121				
25003322	INTERSEEDING, CLASS 5A	ACRE	1.66	1.66				
25200110	SODDING, SALT TOLERANT	SQ YD	121	121				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	45466	45466				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	101	101				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	758	758				
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	2829	2829				
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	6601	6601				
42001300	PROTECTIVE COAT	SQ YD	1004	1004				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	11	11				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6590	6590				
42400800	DETECTABLE WARNINGS	SQ FT	680	680				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED 20% STATE COOK COUNTY	0005 ROADWAY 100% STATE COOK COUNTY			
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	67357	67357				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	11	11				
44000600	SIDEWALK REMOVAL	SQ FT	6590	6590				
44201403	CLASS C PATCHES, TYPE II, 14 INCH	SQ YD	87	87				
44201407	CLASS C PATCHES, TYPE III, 14 INCH	SQ YD	87	87				
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	80	80				
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	543	543				
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	60	60				
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	87	87				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2				
60266600	VALVE BOXES TO BE ADJUSTED	EACH	6	6				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	12	12				
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	150	150				
63200310	GUARDRAIL REMOVAL	FOOT	150	150				
40601005	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4 1/2"	SQ YD	826	826				
44002218	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	208	208				* SPECIALTY ITEMS

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 PROJECT: 47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)
 SHEET: 1 OF 3
 DATE: 10/15/2020

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PLOT DATE = 10/15/2020	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)**

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

F.A.U. RTE. 1488	SECTION 2020-054-R5&SW	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 4
CONTRACT NO. 62L26			REV-SEP	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED 20% STATE COOK COUNTY	0005 ROADWAY 100% STATE COOK COUNTY		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	65	65			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5			
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1			
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1			
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	15	15			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
67100100	MOBILIZATION	L SUM	1	1			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	27808	27808			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	9269	9269			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	442	442			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	31245	31245			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3185	3185			

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED 20% STATE COOK COUNTY	0005 ROADWAY 100% STATE COOK COUNTY		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	517	517			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	872	872			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	688	688			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	6952	6952			
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	3			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	442	442			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	31245	31245			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3185	3185			
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	517	517			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	872	872			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	688	688			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1008	1008			
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	3	3			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	907	907			

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PLOT DATE = 10/15/2020	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)			
SCALE: -	SHEET 2	OF 3 SHEETS	STA. - TO STA. -

F.A.U. RTE. 1488	SECTION 2020-054-R5&SW	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 5
CONTRACT NO. 62L26				REV-SEP
* SPECIALTY ITEMS				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED 20% STATE COOK COUNTY	0005 ROADWAY 100% STATE COOK COUNTY		
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	3	3			
	INSTALLATION						
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2810	2810			
* 89502376	REBUILD EXISTING HANDHOLE	EACH	3	3			
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1			
X0327120	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	ACRE	1.66	1.66			
X1700062	BRICK PAVER REMOVAL AND REPLACEMENT	SQ FT	50	50			
X2503110	MOWING (SPECIAL)	ACRE	1.66	1.66			
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	401	401			
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	400		400		
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	108	108			
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	19138	19138			
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	814	814			
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	70		70		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED 20% STATE COOK COUNTY	0005 ROADWAY 100% STATE COOK COUNTY		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	180	180			
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	37322	37322			
Z0064600	SELECTIVE CLEARING	ACRE	1.6	1.6			
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500			

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Ø 0042
 * SPECIALTY ITEMS
 REV-SEP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

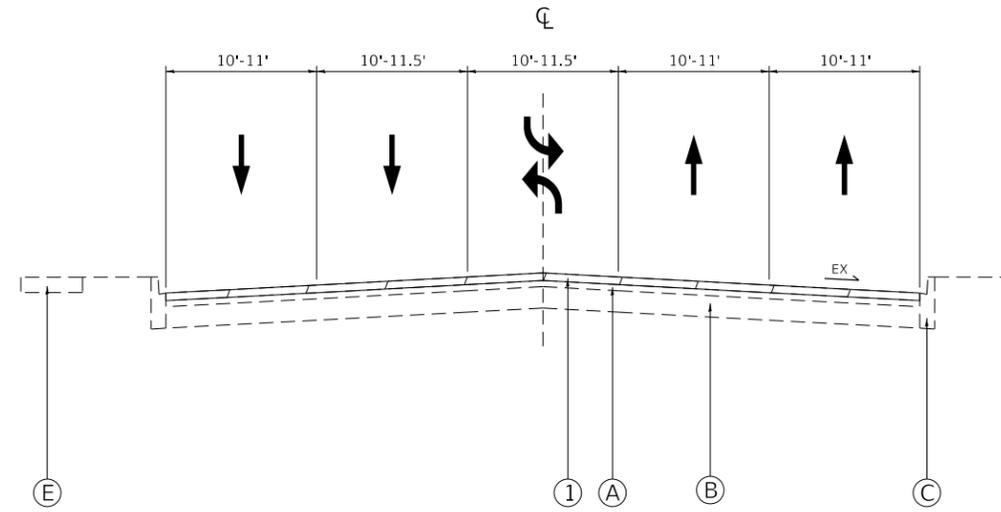
SUMMARY OF QUANTITIES
47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)
 SCALE: - SHEET 3 OF 3 SHEETS STA. - TO STA. -

F.A.U. RTE. 1488	SECTION 2020-054-R5&SW	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 6
CONTRACT NO. 62L26			ILLINOIS FED. AID PROJECT	

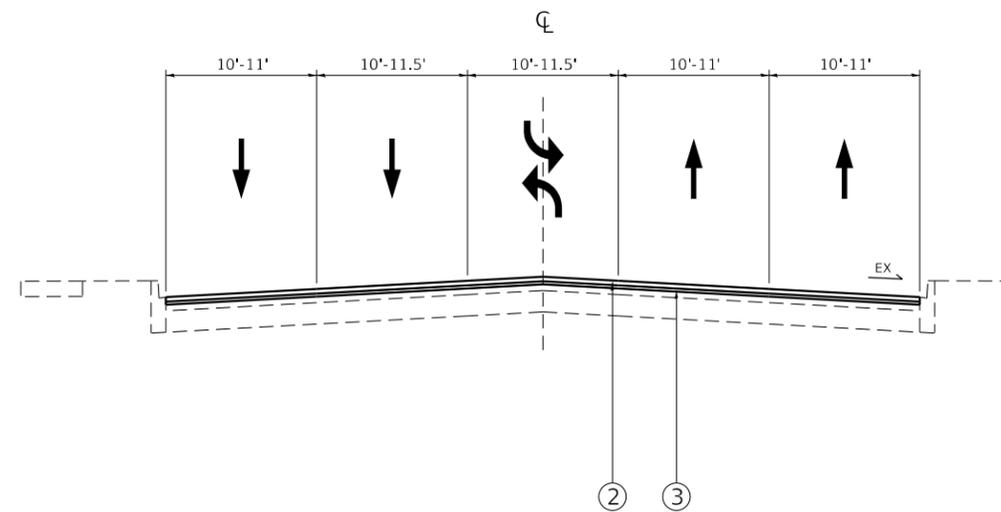
- Ⓐ EXISTING HMA PAVEMENT, 3 - 8"
- Ⓑ EXISTING PCC PAVEMENT, JOINTED, 7 - 11"
- Ⓒ EXISTING CURB AND GUTTER
- Ⓓ EXISTING MEDIAN
- Ⓔ EXISTING SIDEWALK

LEGEND

- ① PROPOSED HMA SURFACE REMOVAL, 2.5"
- ② POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"
- ③ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 0.75"



EXISTING TYPICAL SECTION
 STA 13+40 TO STA 47+83
 STA 60+84 TO STA 83+20



PROPOSED TYPICAL SECTION
 STA 13+40 TO STA 47+83
 STA 60+84 TO STA 83+20

HOT MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	4% AT 70 GYR.	QCP
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	3.5% AT 50 GYR.	QCP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA 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 FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- NOTE 3: QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
- NOTE 4: THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.
- NOTE 5: LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50.

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	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

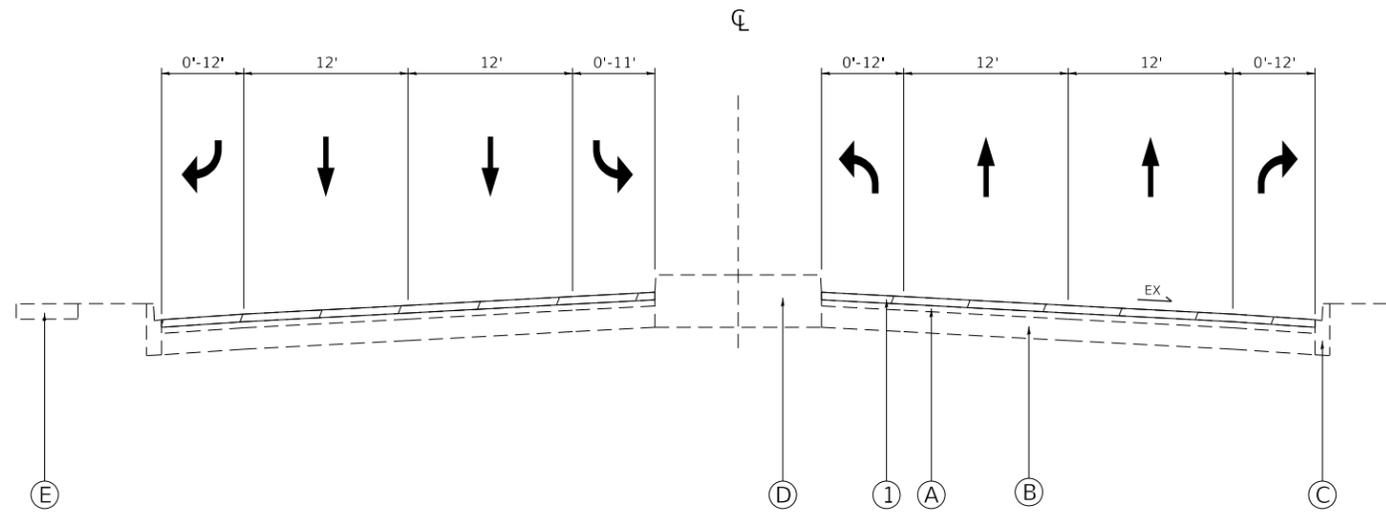
TYPICAL SECTIONS	
47TH STREET; PLAINFIELD ROAD TO IL RTE 43	
SCALE: -	SHEET 1 OF 2 SHEETS
STA. -	TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	7
CONTRACT NO. 62L26				
ILLINOIS FED. AID PROJECT				

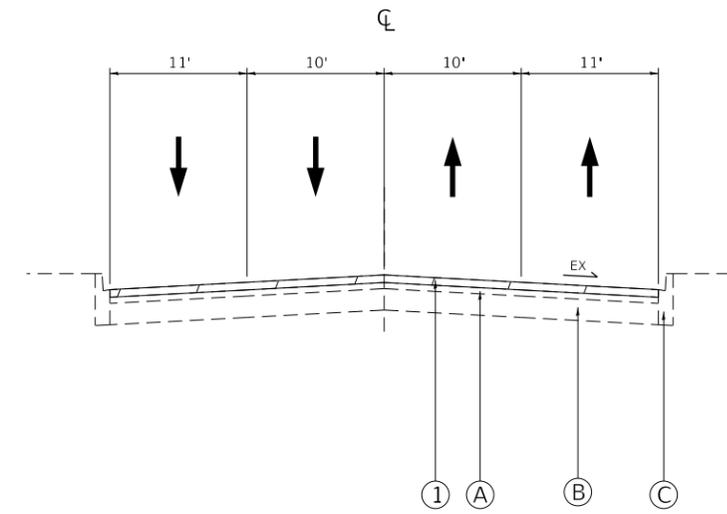
- (A) EXISTING HMA PAVEMENT, 3 - 8"
- (B) EXISTING PCC PAVEMENT, JOINTED, 7 - 11"
- (C) EXISTING CURB AND GUTTER
- (D) EXISTING MEDIAN
- (E) EXISTING SIDEWALK

LEGEND

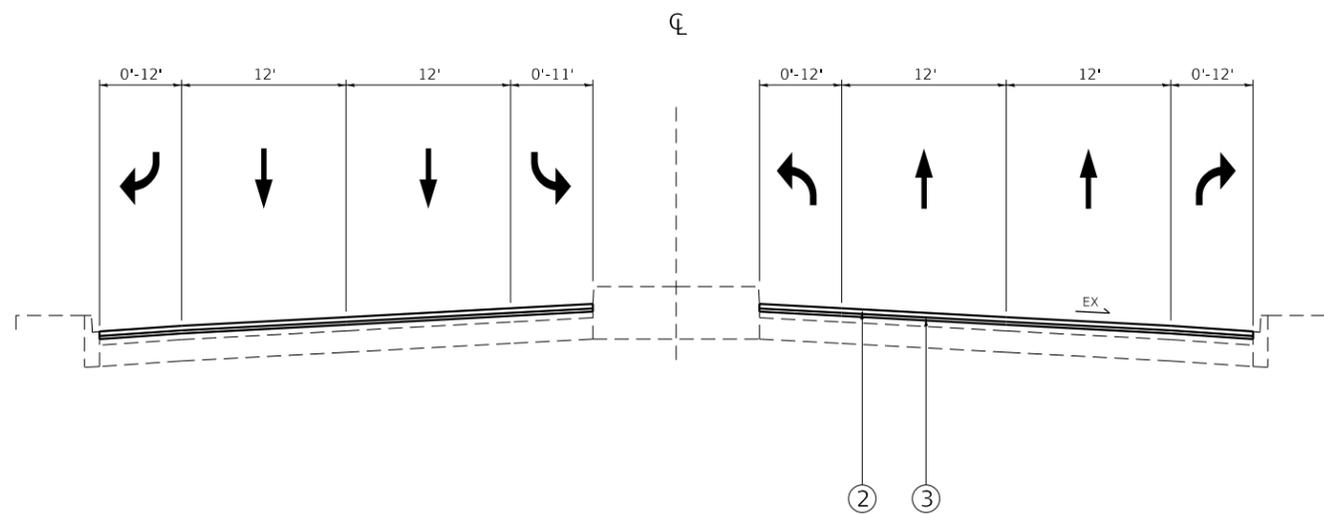
- ① PROPOSED HMA SURFACE REMOVAL, 2.5"
- ② POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"
- ③ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 0.75"



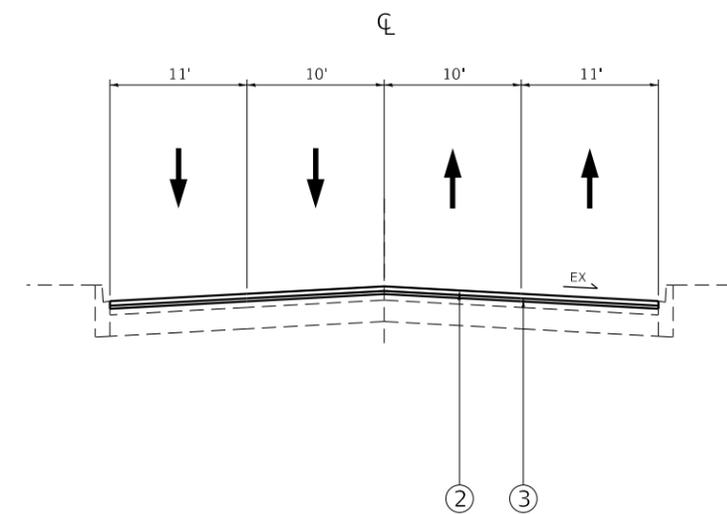
EXISTING TYPICAL SECTION
STA 47+83 TO STA 60+84



EXISTING TYPICAL SECTION
STA 83+20 TO STA 133+50



PROPOSED TYPICAL SECTION
STA 47+83 TO STA 60+84



PROPOSED TYPICAL SECTION
STA 83+20 TO STA 133+50

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PLOT DATE = 11/30/2020	CHECKED - DW	REVISED -
	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
47TH STREET; PLAINFIELD ROAD TO IL RTE 43**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	8
CONTRACT NO. 62L26				
ILLINOIS FED. AID PROJECT				



PROJECT LIMIT
13 + 40.00

47th STREET

PLAINFIELD RD.

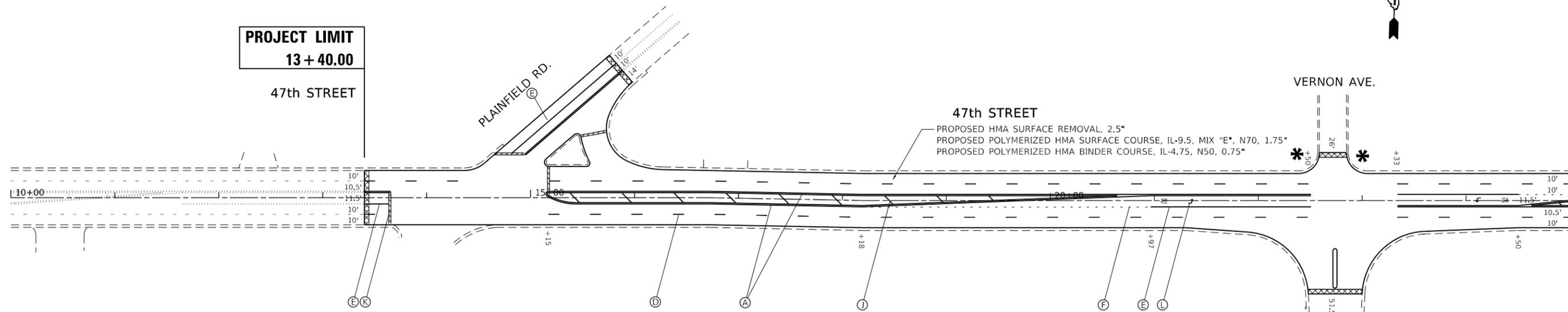
47th STREET

PROPOSED HMA SURFACE REMOVAL, 2.5"
PROPOSED POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"
PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 0.75"

VERNON AVE.

VERNON AVE.

MATCH LINE STA. 25+00



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING, YELLOW, DOUBLE 4" SOLID, 11" C-C
- (B) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" SOLID
- (C) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID
- (D) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" DASHED, 10' DASH 30' SKIP
- (E) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" SOLID
- (F) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" DASHED, 2' DASH, 6' SKIP
- (G) THERMOPLASTIC PAVEMENT MARKING, WHITE, 8" SOLID
- (H) THERMOPLASTIC PAVEMENT MARKING, WHITE, 12" SOLID
- (J) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 12" SOLID
- (K) THERMOPLASTIC PAVEMENT MARKING, WHITE, 24" SOLID
- (L) THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS

PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKINGS TO BE INSTALLED ACCORDING TO DISTRICT DETAILS TC-11 AND TC-13



CUSTER AVE.

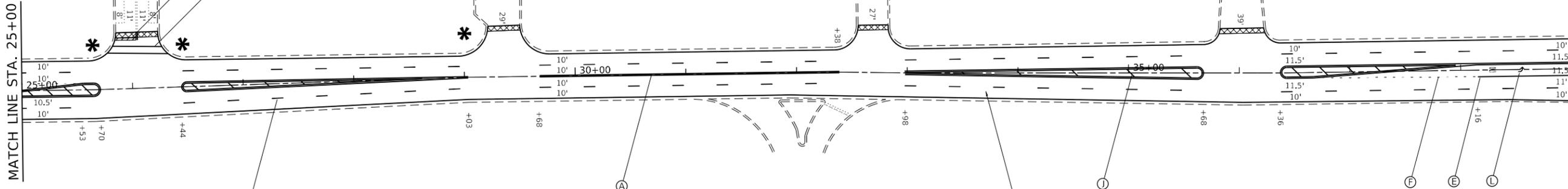
PRAIRIE AVE.

FOREST AVE.

47th STREET

GROVE AVE.

MATCH LINE STA. 39+00



NOTES:

SURFACE REMOVAL - BUTT JOINT (4.5' WIDE, TYP)

PROPOSED ADA SIDEWALK RAMP. SEE ADA DETAIL SHEETS



SELECTIVE CLEARING
MOWING (SPECIAL)
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 5A



MOWING (SPECIAL)
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 5A

PROPOSED HMA SURFACE REMOVAL, 2.5"
PROPOSED POLYMERIZED HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1.75"
PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 0.75"

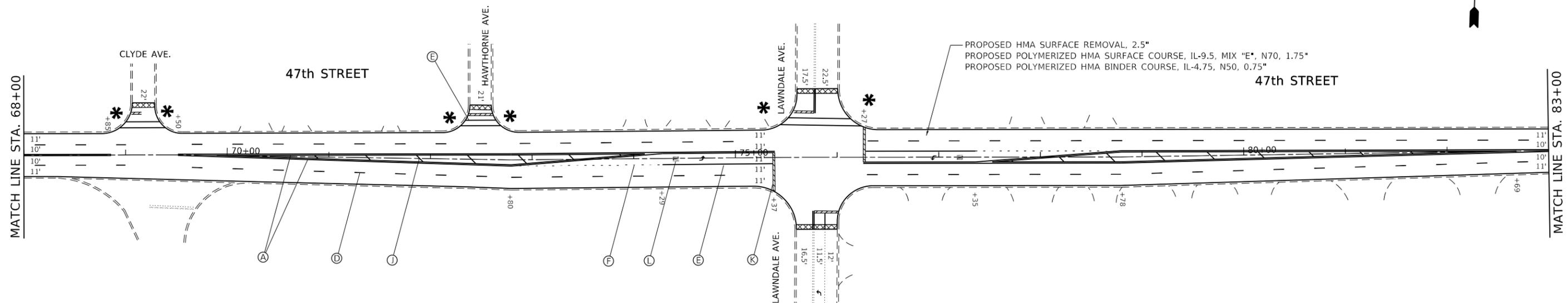
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PLOT SCALE = 100.0000' / in.	DATE - 10/16/2020	REVISED -
PLOT DATE = 10/15/2020		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)			
SCALE: 1"=50'	SHEET 1	OF 5 SHEETS	STA. 10+00 TO STA. 39+00

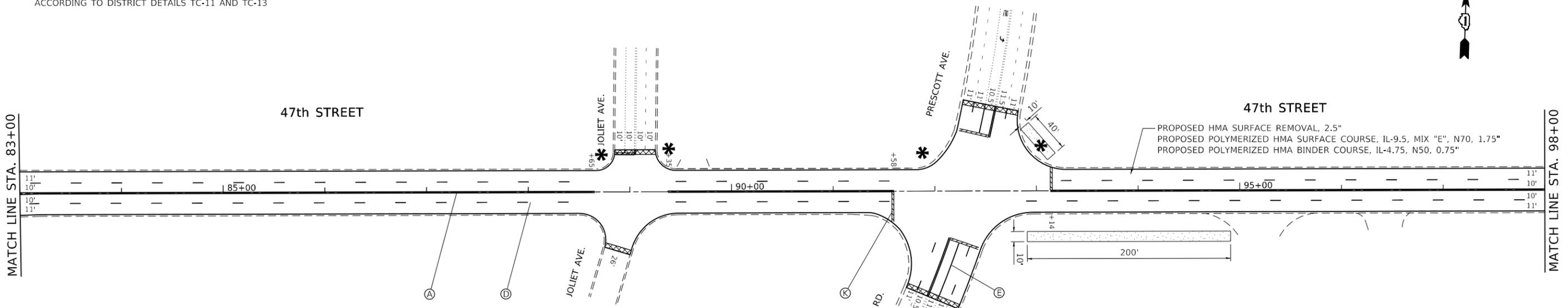
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	9
				CONTRACT NO. 62L26
				ILLINOIS FED. AID PROJECT



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING, YELLOW, DOUBLE 4" SOLID, 11" C-C
- (B) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" SOLID
- (C) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID
- (D) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" DASHED, 10' DASH 30' SKIP
- (E) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" SOLID
- (F) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" DASHED, 2' DASH, 6' SKIP
- (G) THERMOPLASTIC PAVEMENT MARKING, WHITE, 8" SOLID
- (H) THERMOPLASTIC PAVEMENT MARKING, WHITE, 12" SOLID
- (I) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 12" SOLID
- (K) THERMOPLASTIC PAVEMENT MARKING, WHITE, 24" SOLID
- (L) THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS

PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKINGS TO BE INSTALLED ACCORDING TO DISTRICT DETAILS TC-11 AND TC-13



NOTES:

- SURFACE REMOVAL - BUTT JOINT (4.5' WIDE, TYP)
- PROPOSED ADA SIDEWALK RAMP. SEE ADA DETAIL SHEETS
- SELECTIVE CLEARING
MOWING (SPECIAL)
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 5A
- MOWING (SPECIAL)
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT
INTERSEEDING, CLASS 5A

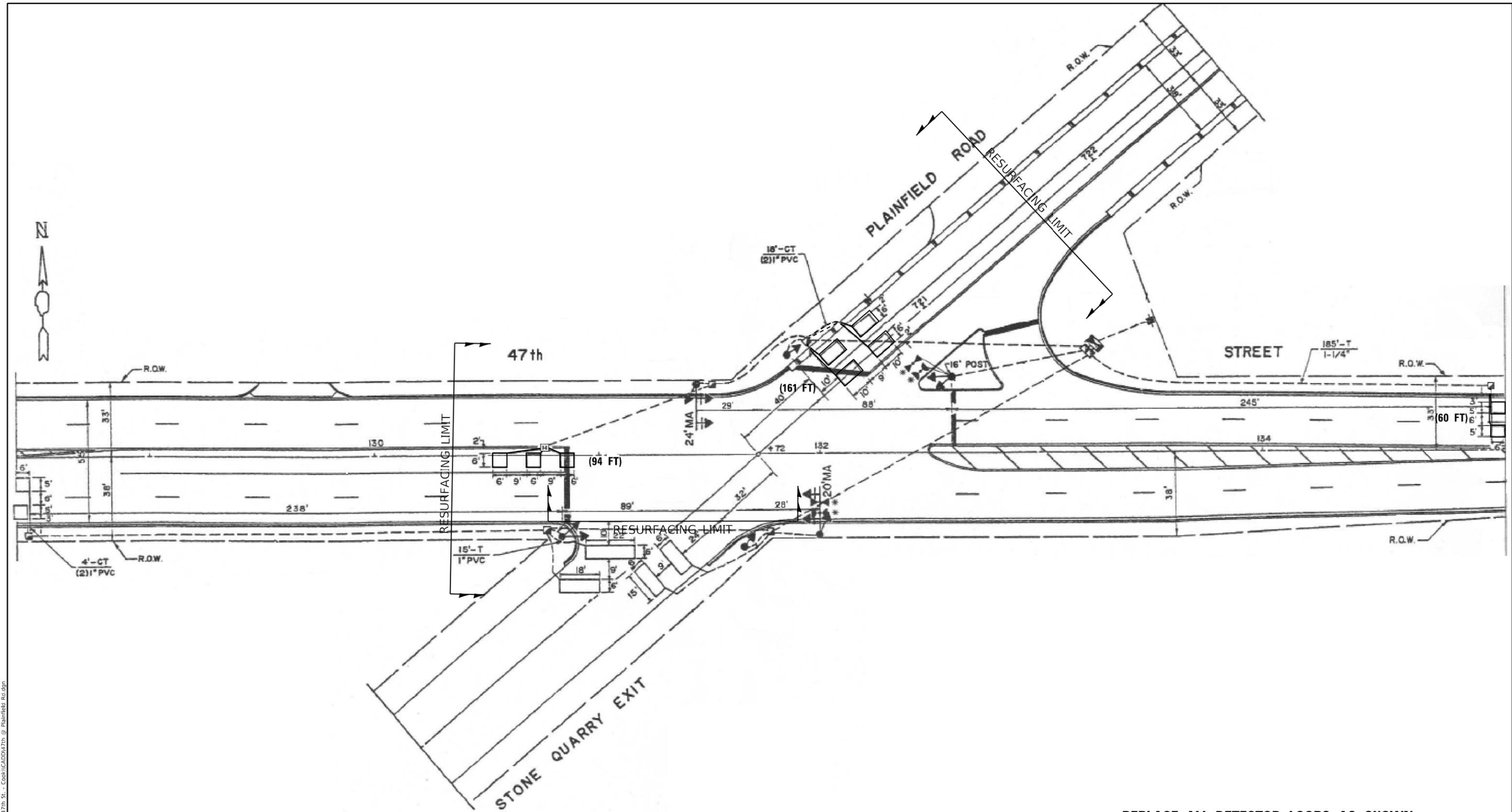
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PLOT DATE = 10/15/2020	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)			
SCALE: 1"=50'	SHEET 3	OF 5 SHEETS	STA. 68+00 TO STA. 98+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	11
CONTRACT NO. 62L26				
ILLINOIS		FED. AID PROJECT		



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

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	315	FOOT

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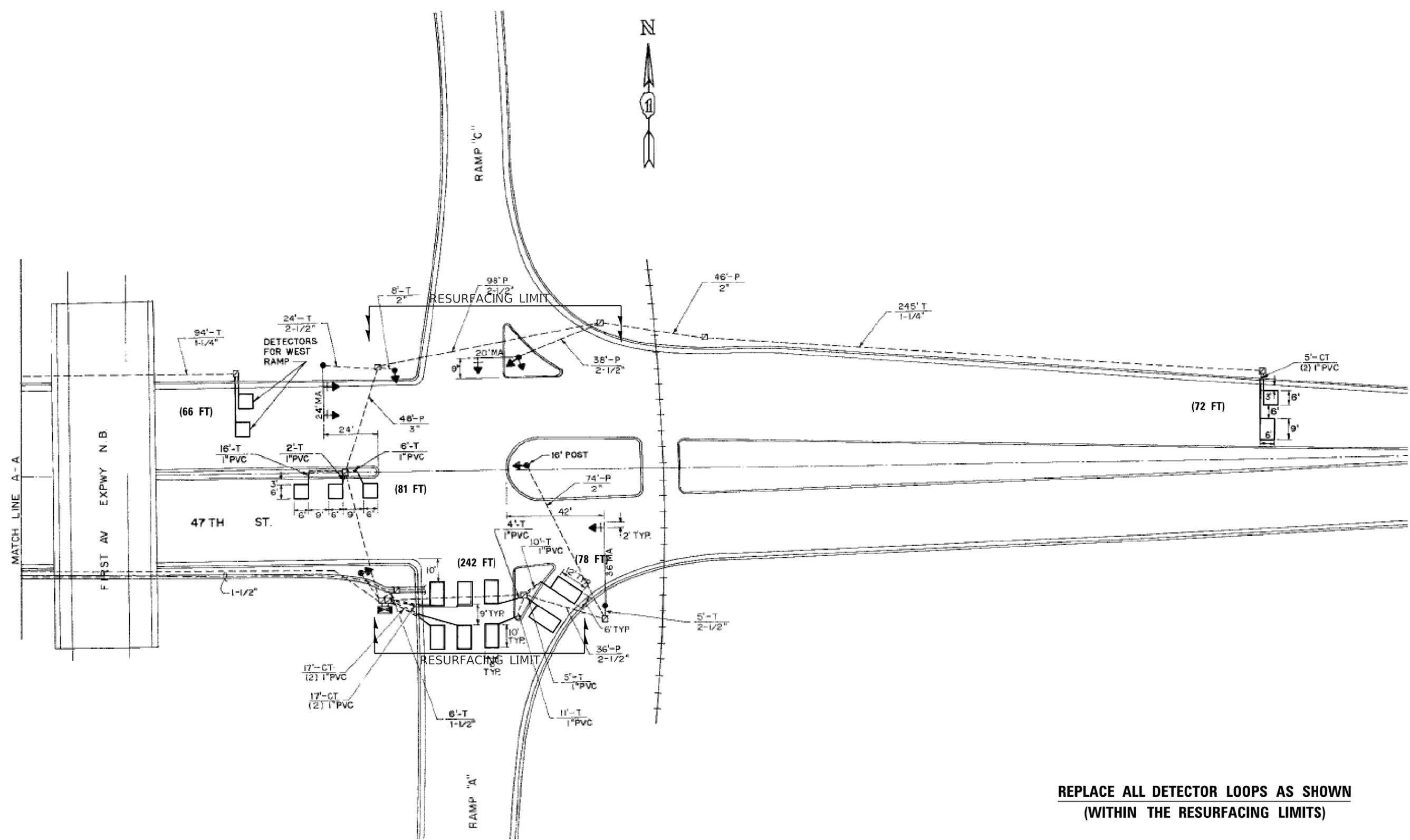
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	DRAWN - Gonzalo Meza	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED - Steven M. Nguyen	REVISED -
PLOT DATE = 9/1/2020	DATE - 08/21/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
47th STREET AT PLAINFIELD RD.**

SCALE: 1"=20' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE. 1488	SECTION 2020-054-R5&SW	COUNTY COOK	TOTAL SHEETS 31	SHEET NO. 14
			CONTRACT NO. 62L26	
ILLINOIS FED. AID PROJECT				



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

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	539	FOOT

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PLOT SCALE = 40,0000' / 1"	CHECKED - Steven M. Nguyen	REVISED -
PLOT DATE = 9/1/2020	DATE - 08/21/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

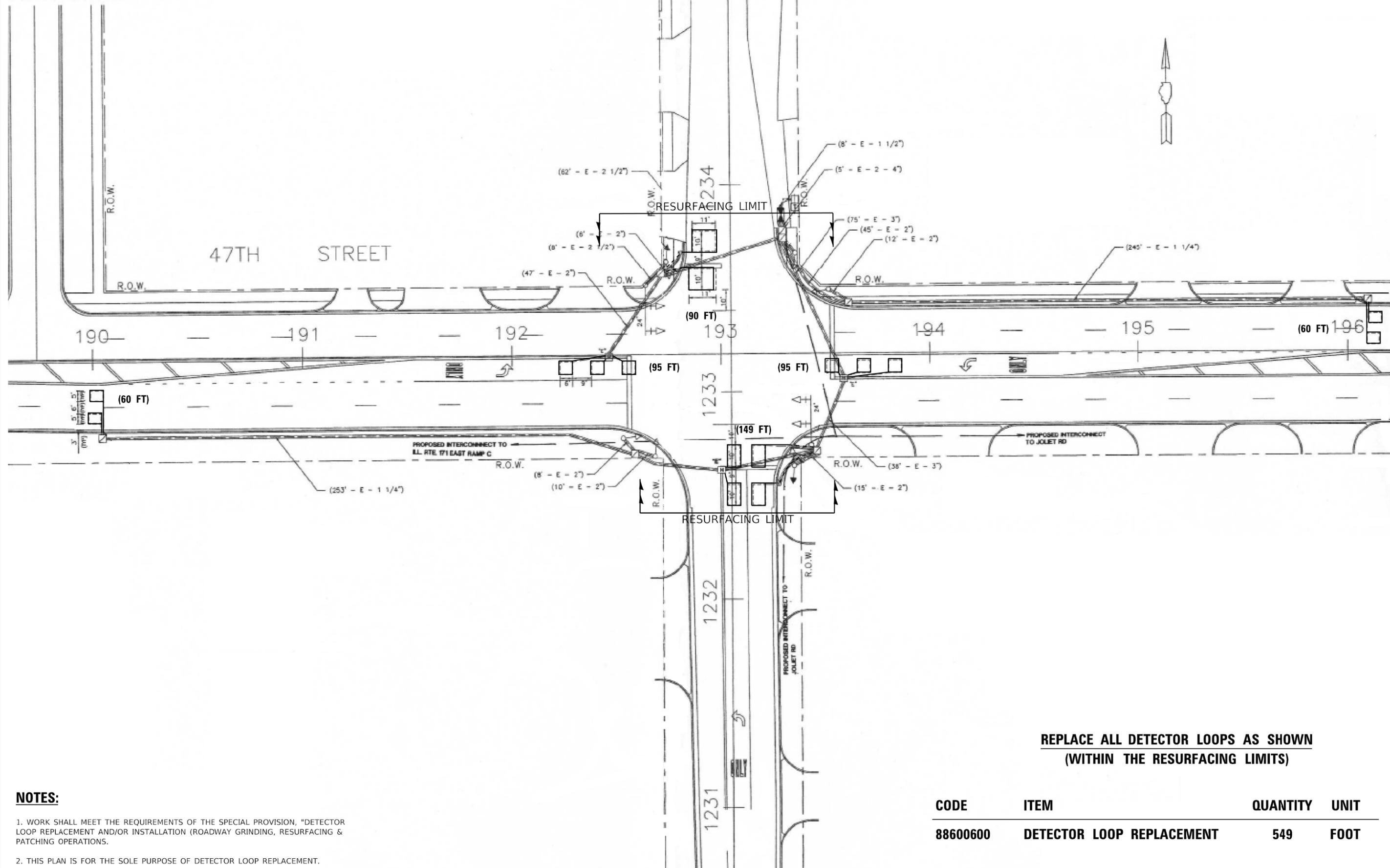
**DETECTOR LOOP REPLACEMENT PLAN
47th STREET AT 1st. AVE. EAST SIDE**

SCALE: 1"=20' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62L26	

IAWTHORNE AVE.

LAWNDALE AVENUE



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

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

CODE	ITEM	QUANTITY	UNIT
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PLOT DATE = 9/1/2020	CHECKED - Steven M. Nguyen	REVISED -
	DATE - 08/21/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
47th STREET AT LAWNDALE AVE.**

SCALE: 1"=20' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	17
CONTRACT NO. 62L26				
ILLINOIS FED. AID PROJECT				

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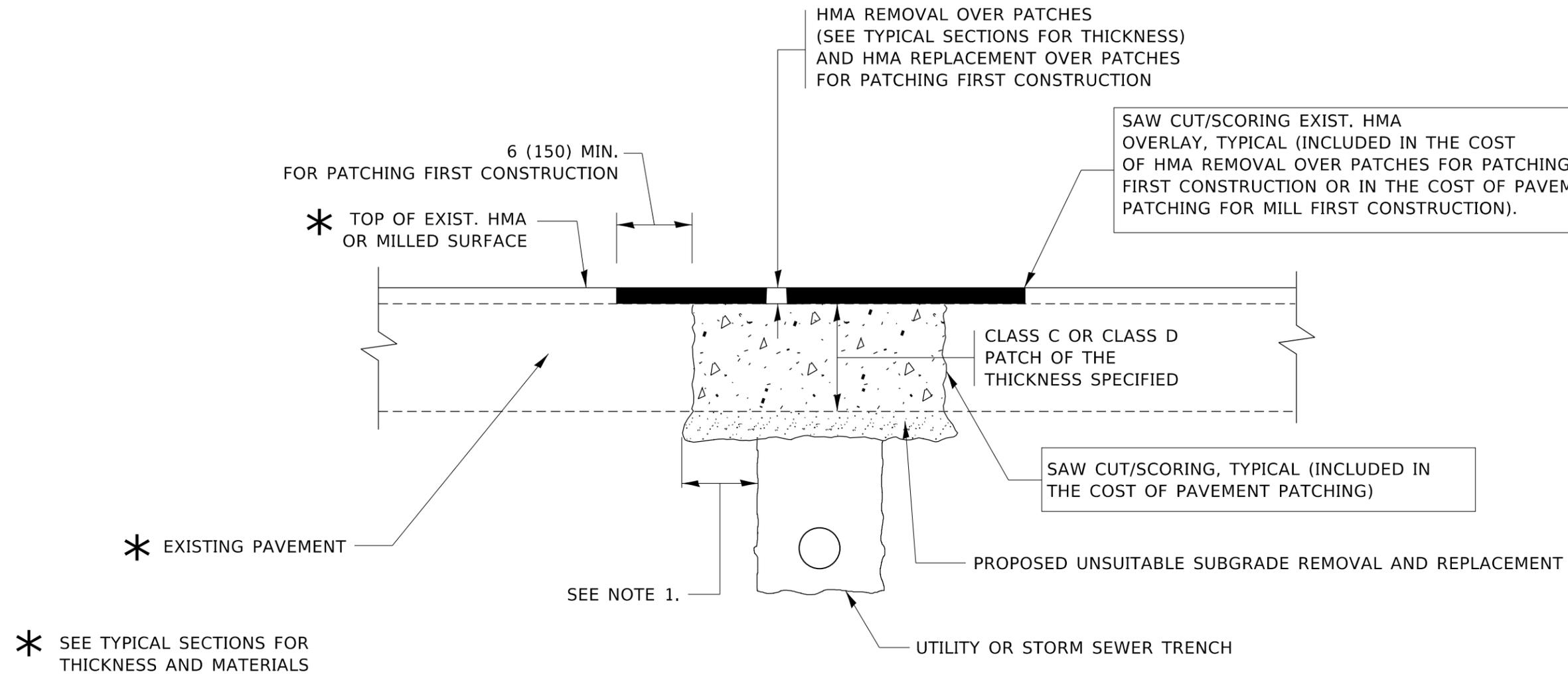
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PLOT DATE = 10/15/2020	DATE - 10/16/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA DETAIL PLANS
47TH STREET; PLAINFIELD ROAD TO IL ROUTE 43 (HARLEM AVENUE)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	19
				CONTRACT NO. 62L26
		ILLINOIS	FED. AID PROJECT	



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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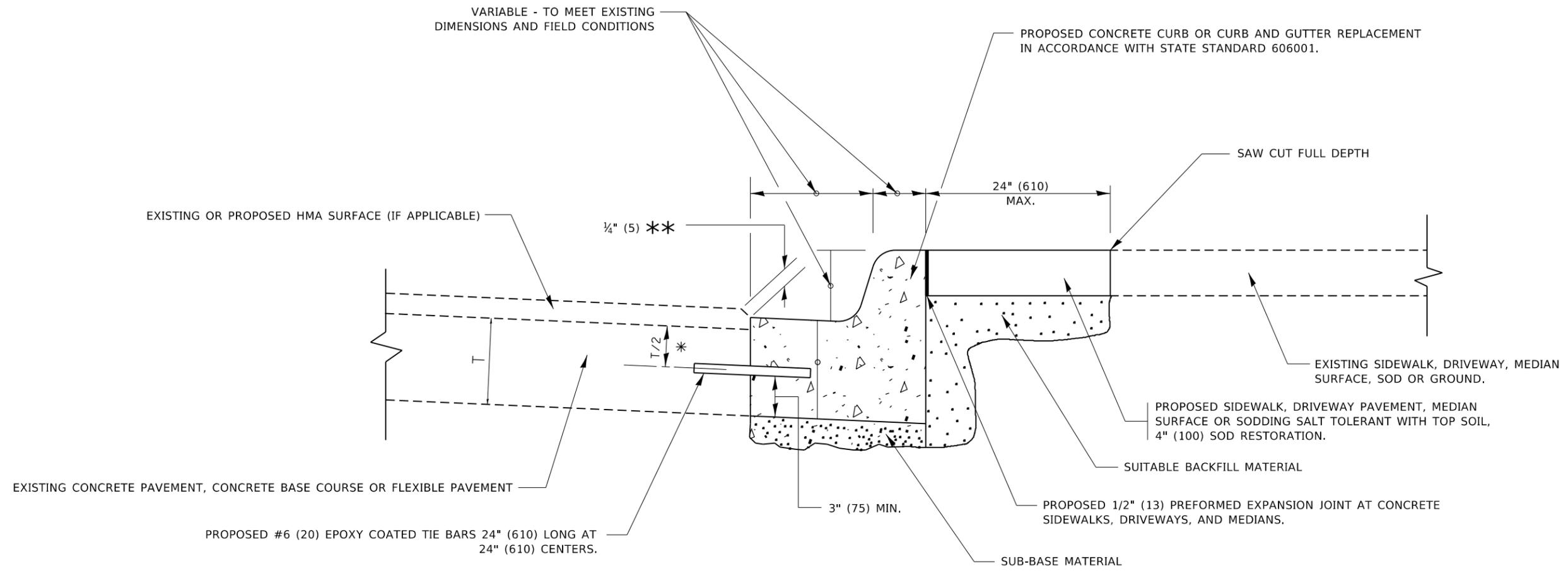
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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 10/15/2020	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	21
BD400-04 (BD-22)			CONTRACT NO. 62L26	
ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

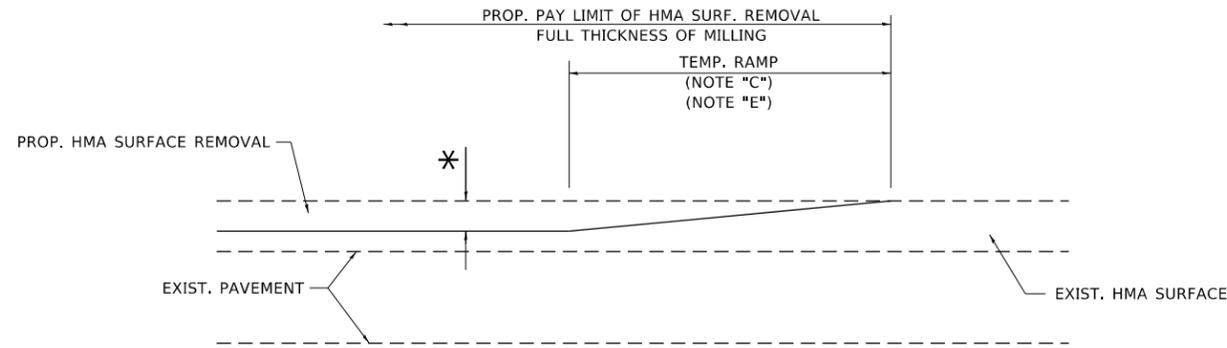
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 10/15/2020	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

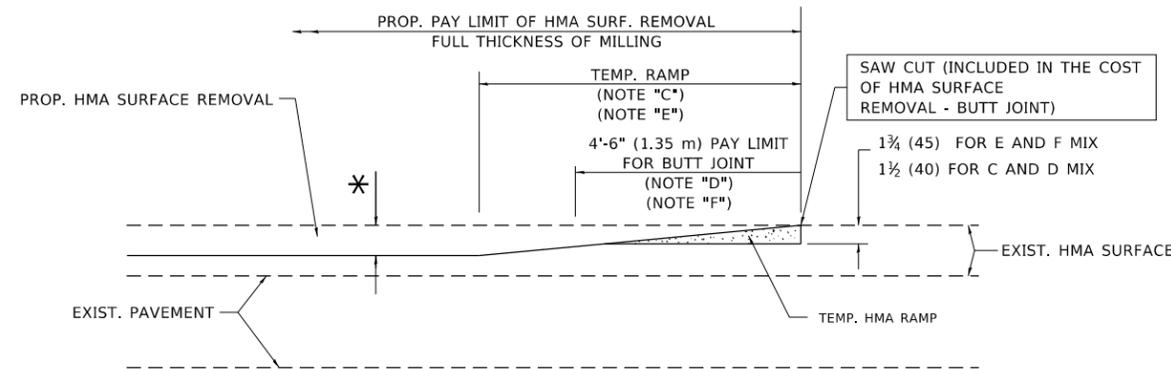
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1488	2020-054-R5&SW	COOK	31	22
BD600-06 (BD-24)		CONTRACT NO. 62L26		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

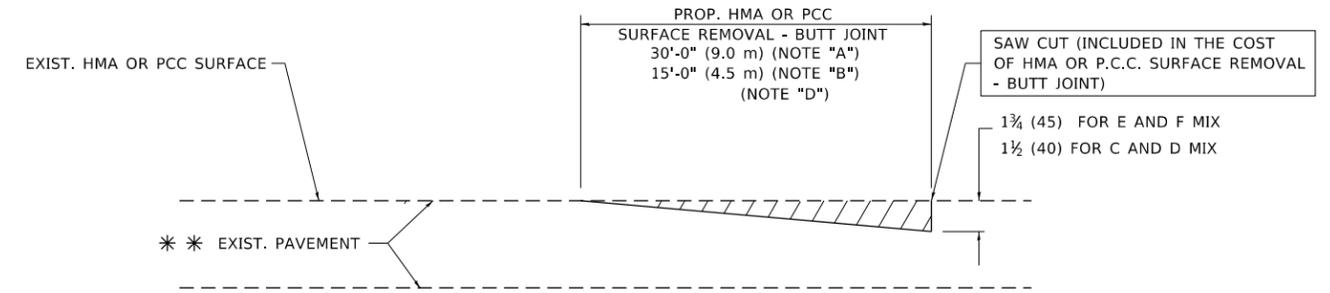


HMA CONSTRUCTED TEMPORARY RAMP

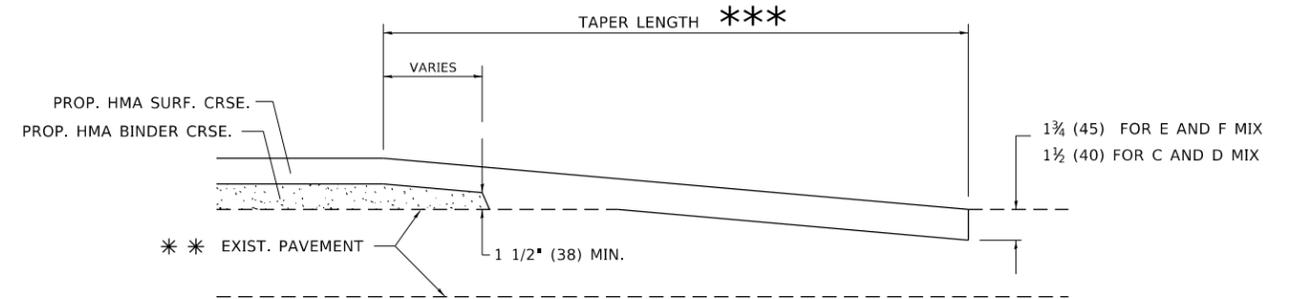
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

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.

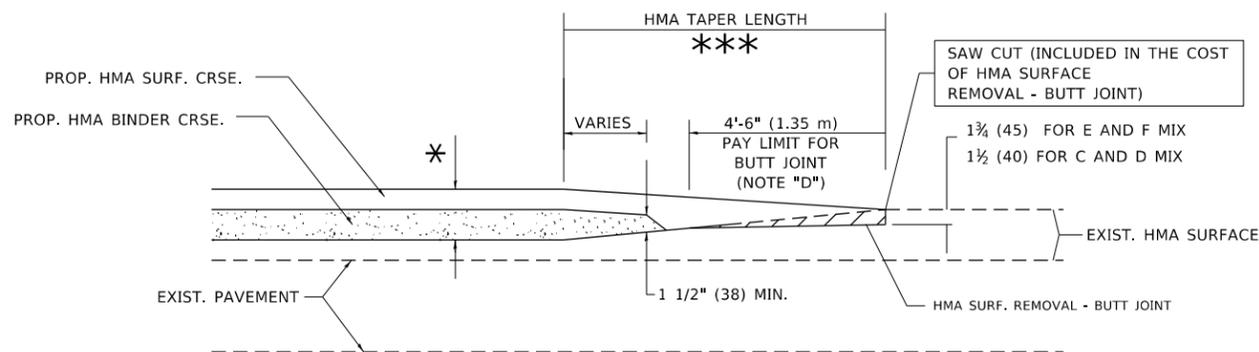
NOTES

- 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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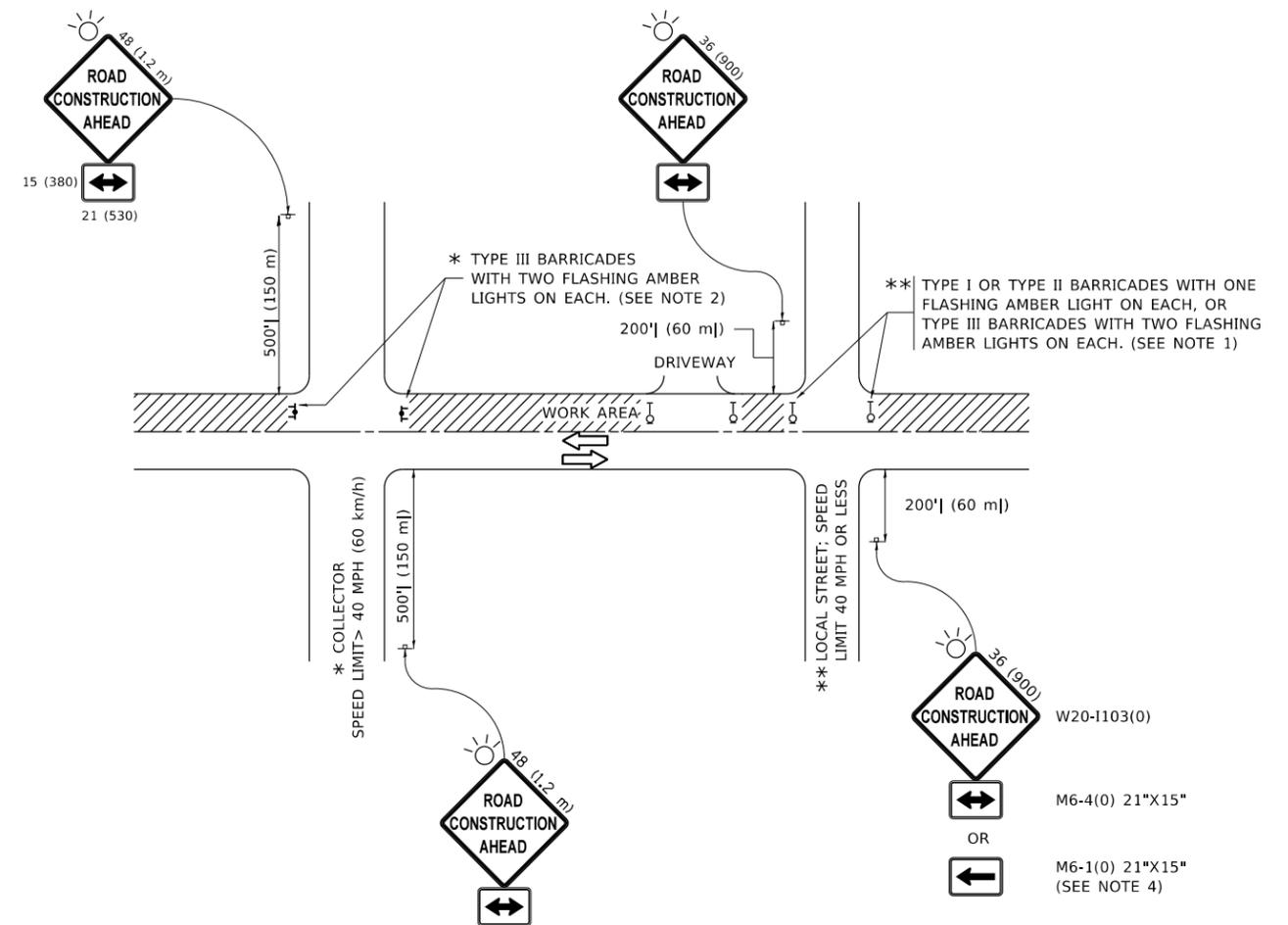
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PLOT DATE = 10/15/2020	DATE - 06-13-90	REVISED - R.BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	23
BD400-05 BD32		CONTRACT NO. 62L26		
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) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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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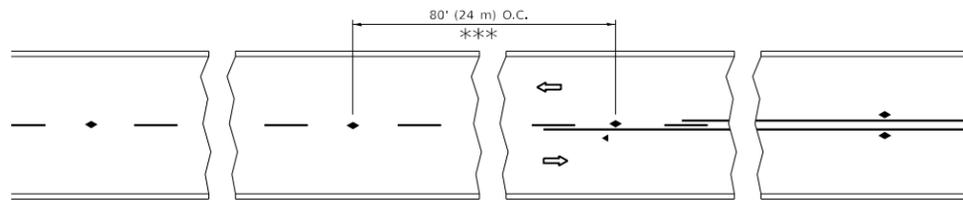
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PLOT DATE = 10/15/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

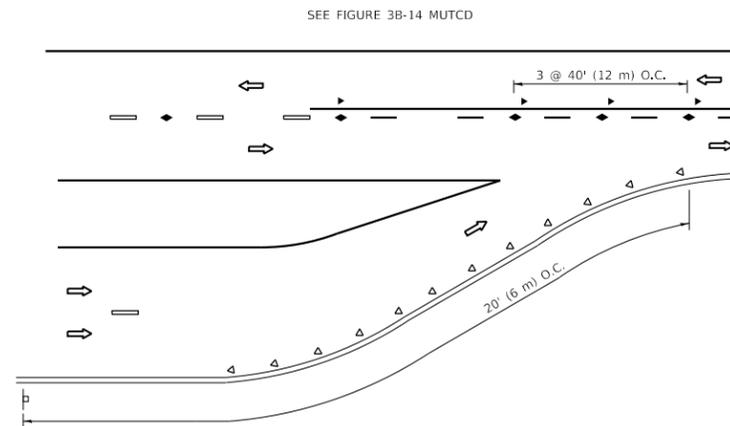
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10		CONTRACT NO. 62L26		
ILLINOIS FED. AID PROJECT				

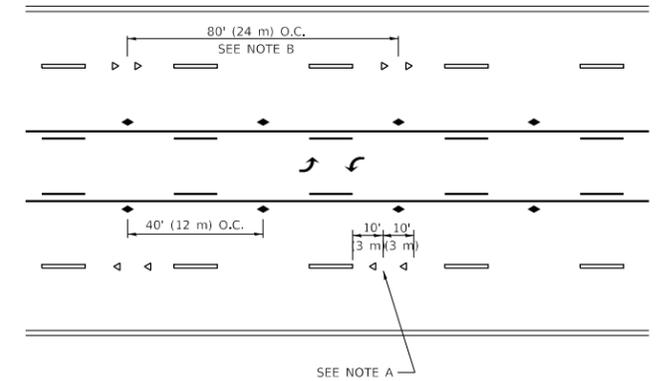


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

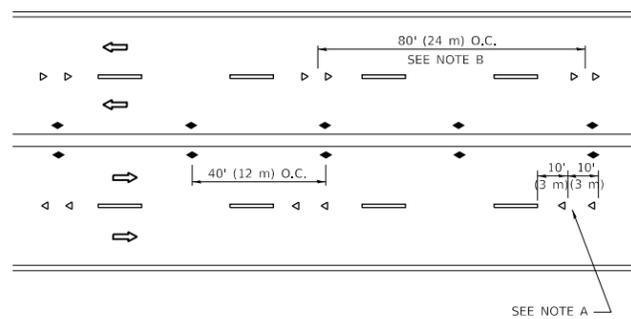
TWO-LANE/TWO-WAY



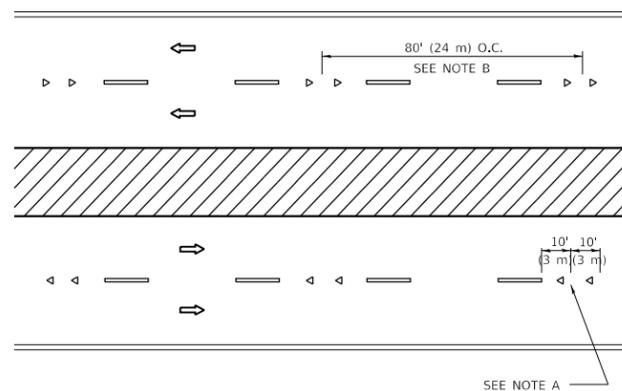
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

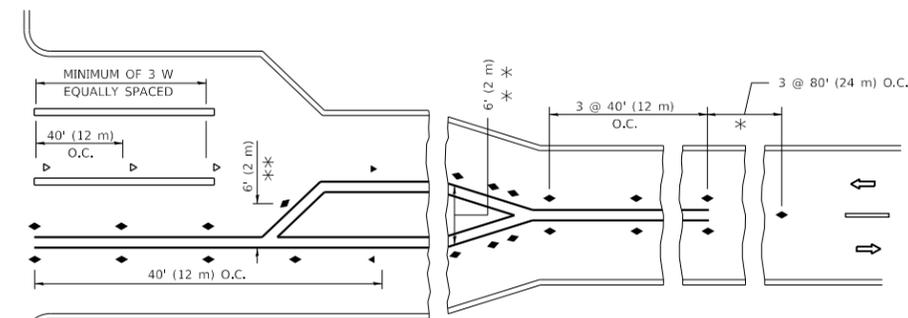
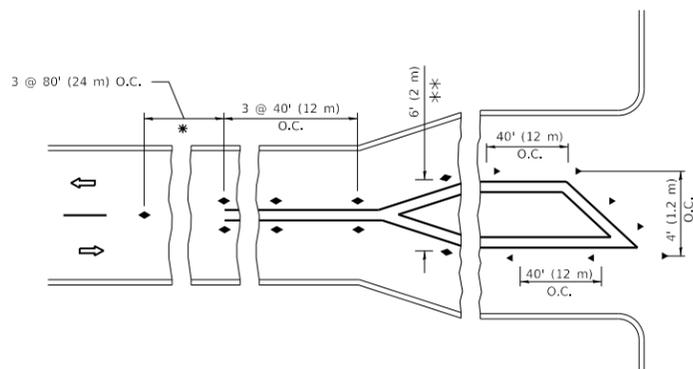
- YELLOW STRIPE
- ▬ WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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



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

TURN LANES

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

MODEL: Default
 FILE: \\blm1c01.pw.state.il.us\blm1c01\Documents\DOT_Offices\blm1c01\Projects\143720\CADD\Drawings\Design\DESIGN.dgn

USER NAME = rostkowskir	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 10/15/2020	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	25
TC-11			CONTRACT NO. 62L26	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

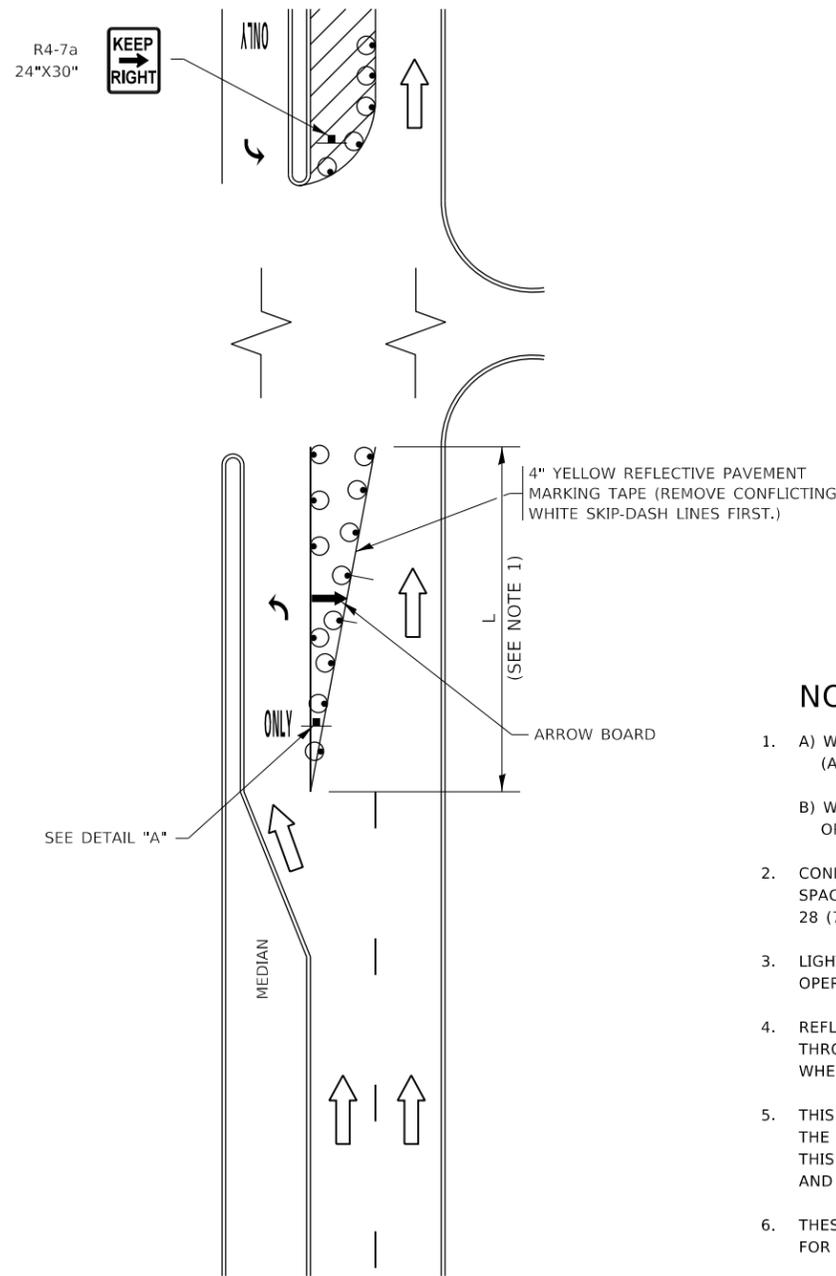


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

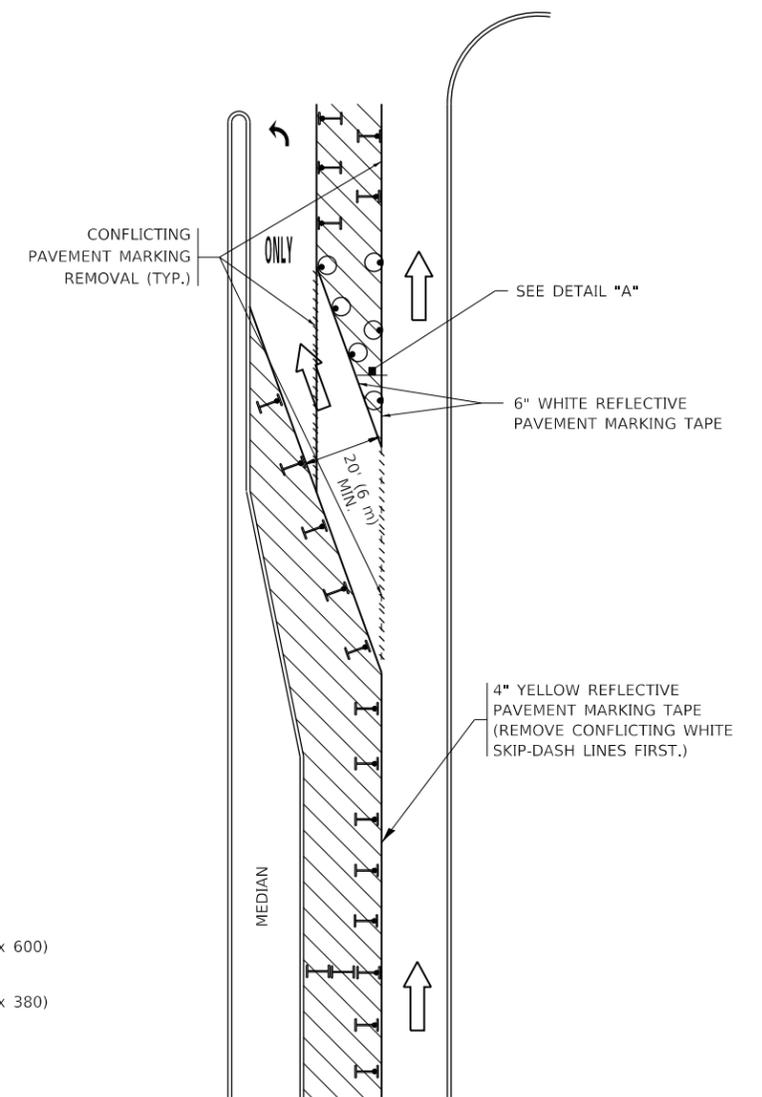


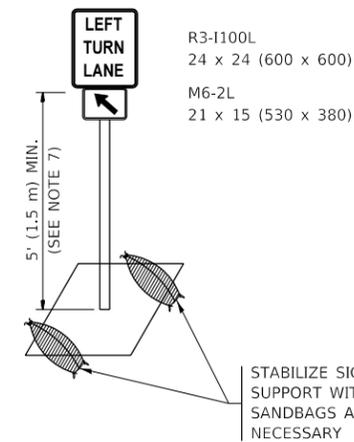
FIGURE 2

LEGEND

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

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

MODEL: Default
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PROJECT: 2020-054-R5&SW
DRAWING: 2020-054-R5&SW-TC-14-01
DATE: 10/15/2020

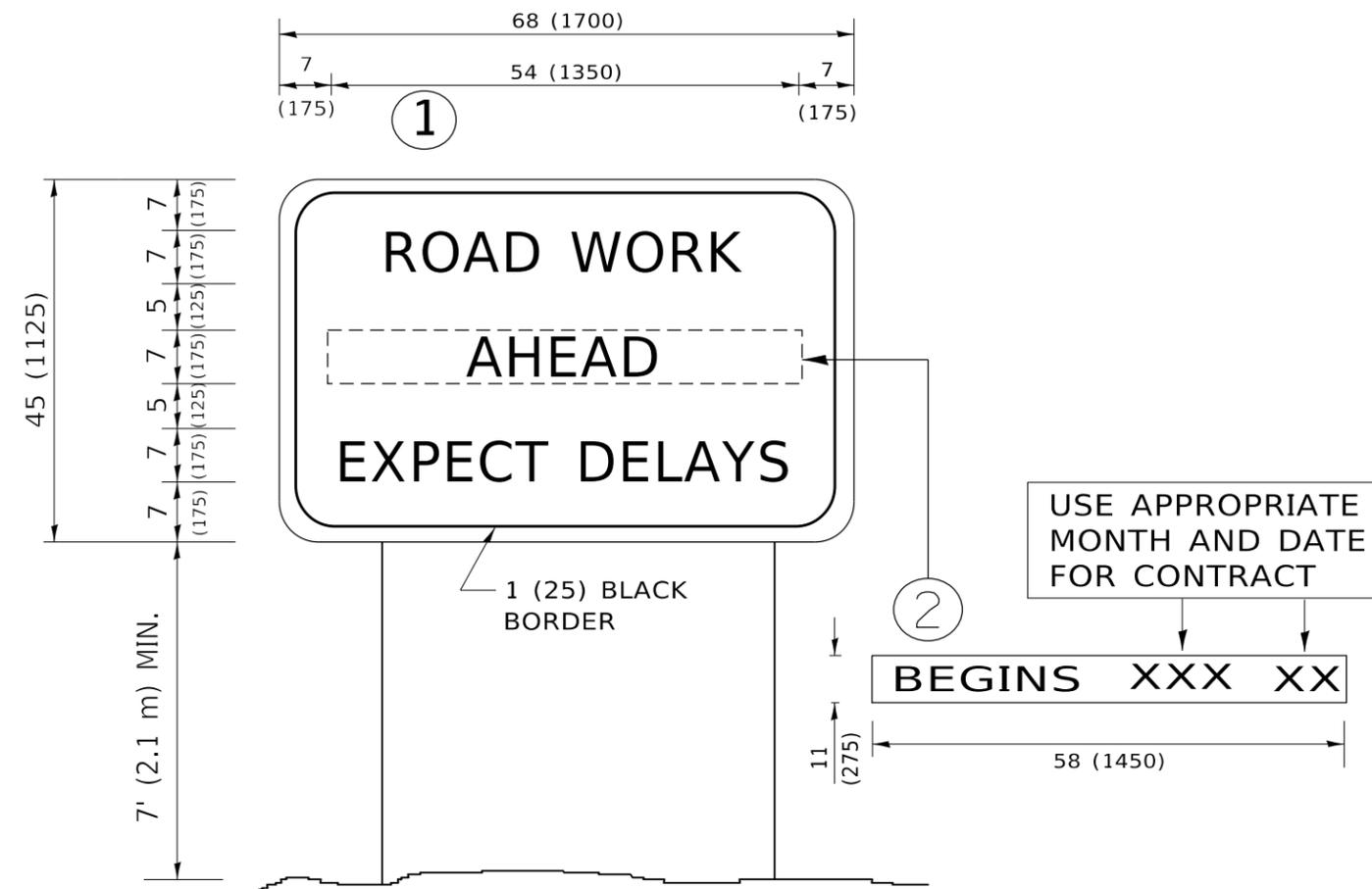
USER NAME = rostkawski	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 10/15/2020	DATE - T. RAMMACHER 01-06-00	REVISED -

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	27
TC-14		CONTRACT NO. 62L26		
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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USER NAME = rostkowski	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 = 10/15/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

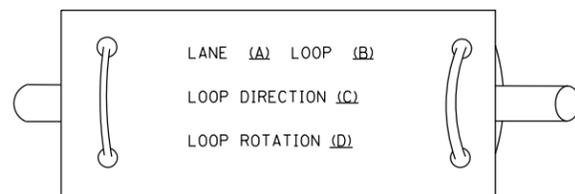
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-22		CONTRACT NO. 62L26		
ILLINOIS FED. AID PROJECT				

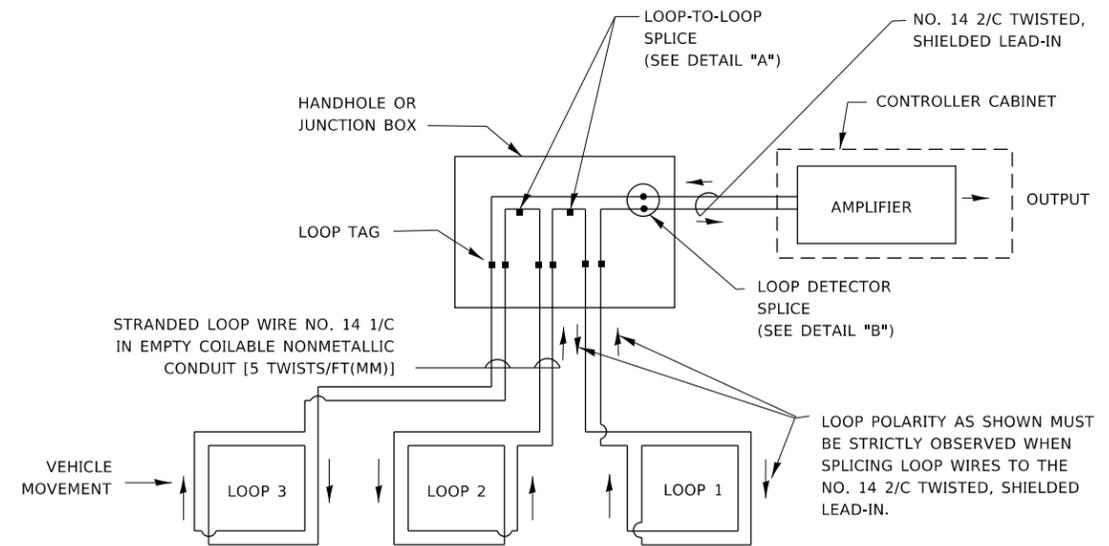
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

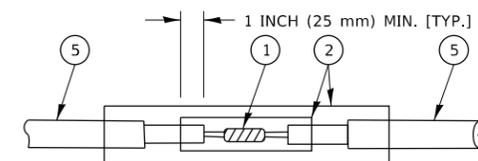


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

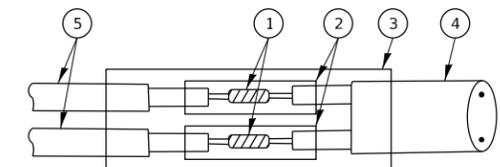


DETECTOR LOOP WIRING SCHEMATIC

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

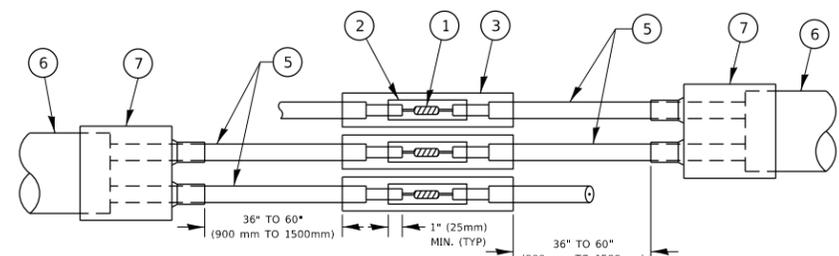


DETAIL "A"
LOOP-TO-LOOP SPLICE

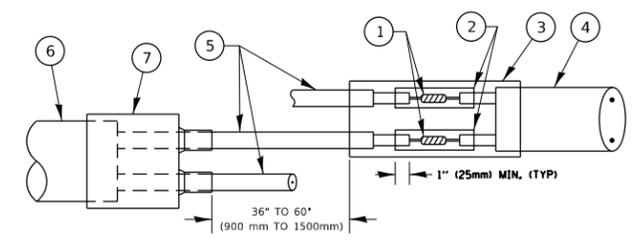


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1488	2020-054-R5&SW	COOK	31	30
TS-05		CONTRACT NO. 62L26		
ILLINOIS		FED. AID PROJECT		

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USER NAME = rostkowski	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/15/2020	CHECKED -	REVISED -
	DATE -	REVISED -

