

11-17-2023 LETTING ITEM 014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	1
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT KS8H(135)		

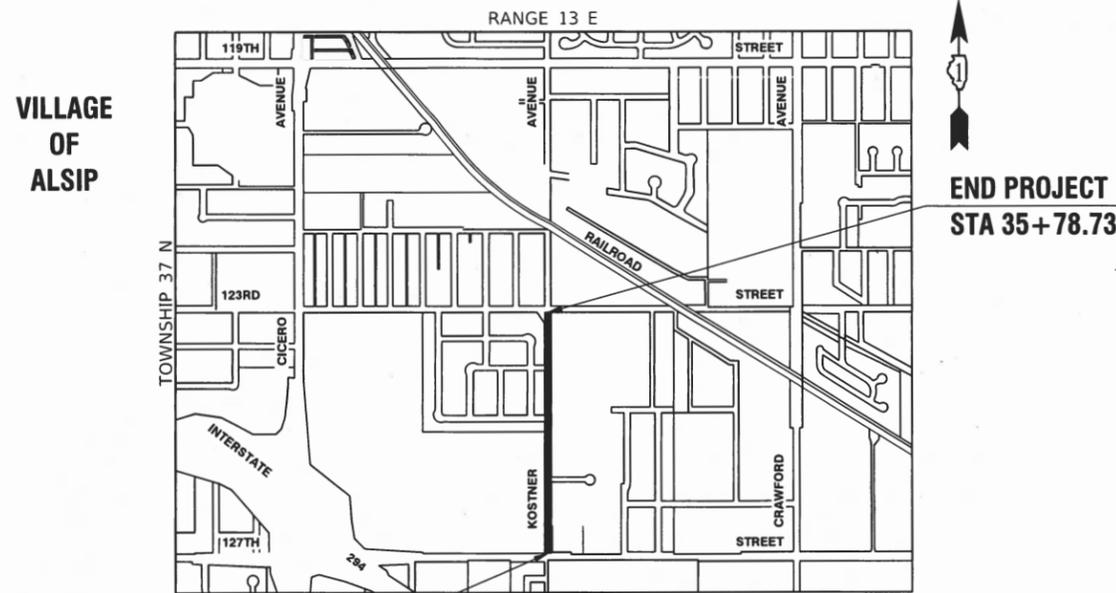
CONTRACT NO. 61J81

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

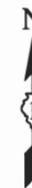
FAU ROUTE 2403 (KOSTNER AVENUE)  
127TH STREET TO 123RD STREET  
ROADWAY RESURFACING  
SECTION NO.: 23-00102-00-RS  
PROJECT NO.: KS8H(135)  
VILLAGE of ALSIP  
COOK COUNTY  
JOB NO.: C-91-213-23

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

KOSTNER AVENUE 127TH STREET TO 123RD STREET	
2019 ADT-	3,100
POSTED SPEED LIMIT-	25 MPH
FUNCTIONAL CLASSIFICATION-	MAJOR COLLECTOR



VILLAGE OF  
ALSIP



END PROJECT  
STA 35+78.73

BEGIN PROJECT  
STA 10+96.84

LOCATION MAP  
NOT TO SCALE

GROSS AND NET LENGTH = 2,482 FEET = 0.47 MILES



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



ROY A. GLAN  
07-31-23

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	7-20-23
	<i>[Signature]</i>
	VILLAGE OF ALSIP, MAYOR
FOR REVIEW	AUG 27 2023
	<i>[Signature]</i>
	DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	AUGUST 29, 2023
	<i>[Signature]</i>
	REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF  
THE STATE OF ILLINOIS

I.D.O.T. FEDERAL AID PROGRAM ENGINEER: CARMEN RAMOS, PE, SCHAUMBURG, IL  
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

CONTRACT NO. 61J81

## INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6	TYPICAL CROSS SECTIONS
7	ALIGNMENT, TIES AND BENCHMARKS
8-9	PROPOSED IMPROVEMENT PLAN
10-11	PAVEMENT MARKING PLAN
12-21	IDOT DISTRICT 1 STANDARDS

## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF ROAD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5m) AWAY
701006-05	OFF ROAD OPERATIONS, 2L, 2W, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
701011-04	OFF ROAD MOVING OPERATIONS, 2L,2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, WITH UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

## DISTRICT ONE DETAILS

BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-32	BUTT JOINTS AND HMA TAPER
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

## GENERAL NOTES

- ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
- THE ROBINSON ENGINEERING, LTD. FIELD OFFICE (708-331-6700), AND THE PUBLIC WORKS DIRECTOR, AT THE VILLAGE OF ALSIP (708-385-6902 x2415), SHALL BE NOTIFIED THREE (3) WORKING DAYS BEFORE CONSTRUCTION BEGINS.
- BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 AND (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED)
- UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTOR'S USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITY INFORMATION.
- 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 THICKNESS OF HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SHALL BE REMOVED BY THE END OF EACH DAY BY THE CONTRACTOR.
- CLASS D PATCHING QUANTITIES FOR THIS CONTRACT SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER AFTER PAVEMENT MILLING.
- CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
- NO PAVEMENT PATCHING SHALL BE PERMITTED AFTER FRIDAY AT 3:00 PM OF EACH AND EVERY WEEK AND NO HOLES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT OR OVER THE WEEKEND.
- ALL EQUIPMENT SHALL BE REMOVED OFF THE VILLAGE STREETS DURING ALL HOLIDAY WEEKENDS AS COORDINATED WITH THE VILLAGE.
- HMA PAVING SHALL BE PERFORMED WITH HOT JOINTS.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

FILE NAME = 23-R0309-INDX-01 - P01	USER NAME =	DESIGNED -- TAG	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>KOSTNER AVENUE ROADWAY RESURFACING INDEX OF SHEETS, STATE STANDARDS &amp; GENERAL NOTES</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- WPD	REVISED --					2403	23-00102-00-RS	COOK	21	2
	PLOT SCALE =	DRAWN -- BG	REVISED --					CONTRACT NO. 61J81				
	PLOT DATE = 08-30-23	CHECKED -- AG	REVISED --					SCALE: NONE	SHEET NO. 2 OF 21 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT KSBH(135)

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	FED 80%	FED 80%	FED 80%
					VILLAGE 20%	VILLAGE 20%	VILLAGE 20%
					ROADWAY	SAFETY	TRAINEES
					CONSTRUCTION TYPE CODE		
					0005	0021	0042
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	500	500		
	25200110	SODDING, SALT TOLERANT	SQ YD	500	500		
	25200200	SUPPLEMENTAL WATERING	UNIT	15	15		
	28000510	INLET FILTERS	EACH	22	22		
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	255		255	
	35800100	PREPARATION OF BASE	SQ YD	170	170		
	35800200	AGGREGATE BASE REPAIR	TON	100	100		
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	75	75		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5405	5405		
	40600370	LONGITUDINAL JOINT SEALANT	FOOT	2900	2900		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	100	100		
	40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	350	350		
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	925	925		
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	15	15		
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2300		2300	
	42400800	DETECTABLE WARNINGS	SQ FT	60		60	

FILE NAME = 23-R0309-QUAN-01 - P01

USER NAME =	DESIGNED -- TAG	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- BG	REVISED --
PLOT DATE = 08-30-23	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

KOSTNER AVENUE ROADWAY RESURFACING SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET NO. 3 OF 21 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	3
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)				

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	FED 80%	FED 80%	FED 80%
					VILLAGE 20%	VILLAGE 20%	VILLAGE 20%
					ROADWAY	SAFETY	TRAINEES
					CONSTRUCTION TYPE CODE		
					0005	0021	0042
	44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	8005	8005		
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	405	405		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1670	1670		
	44000600	SIDEWALK REMOVAL	SQ FT	2300		2300	
	44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	20	20		
	44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	50	50		
	44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	50	50		
	44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	50	50		
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1670	1670		
	67100100	MOBILIZATION	L SUM	1	1		
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	600		600	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	200		200	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	40		40	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5260		5260	

FILE NAME = 23-R0309-QUAN-01 - P02

USER NAME =	DESIGNED -- TAG	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- BG	REVISED --
PLOT DATE = 08-30-23	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

KOSTNER AVENUE ROADWAY RESURFACING SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET NO. 4 OF 21 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	4
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KSBH(135)				

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	FED 80%	FED 80%	FED 80%
					VILLAGE 20%	VILLAGE 20%	VILLAGE 20%
					ROADWAY	SAFETY	TRAINEES
					CONSTRUCTION TYPE CODE		
					0005	0021	0042
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	195		195	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	350		350	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50		50	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	125		125	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	125		125	
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	60		60	
*	88600100	DETECTOR LOOP, TYPE I	FOOT	80		80	
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	60		60	
	Z0004514	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"	SQ YD	390	390		
	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	28	28		
	Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	1	1		
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	60		60	
	Z0076600	TRAINEES	hour	500			500
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	500			500

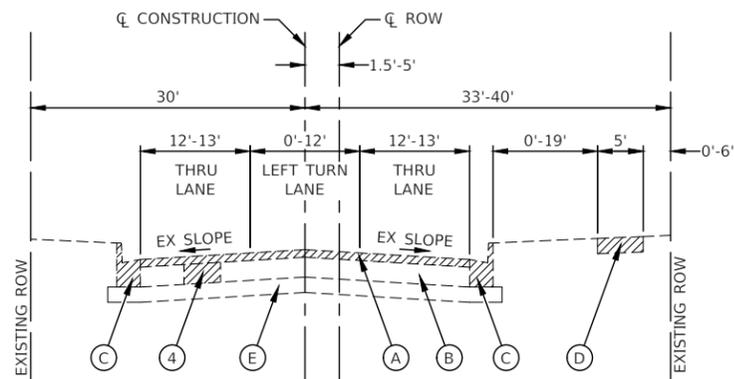
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PLOT DATE = 08-30-23	CHECKED -- AG	REVISED --

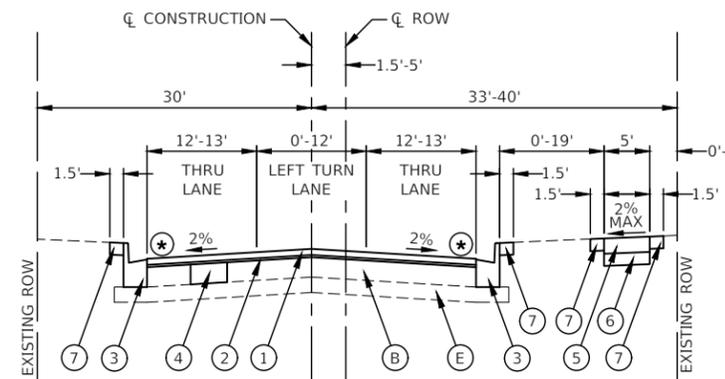
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

KOSTNER AVENUE ROADWAY RESURFACING SUMMARY OF QUANTITIES		
SCALE: NONE	SHEET NO. 5 OF 21 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	5
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)				



**EXISTING TYPICAL SECTION**  
KOSTNER AVENUE  
STA 10+96.84 TO STA 35+78.73



**PROPOSED TYPICAL SECTION**  
KOSTNER AVENUE  
STA 10+96.84 TO STA 35+78.73

⊛ FINISHED PAVEMENT SURFACE SHALL BE 1/4" ABOVE TOP OF GUTTER

**EXISTING LEGEND**

- Ⓐ HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- Ⓑ EXISTING HOT-MIX ASPHALT PAVEMENT, 10" TO 13"
- Ⓒ EXISTING COMBINATION CURB AND GUTTER REMOVAL (AT LOCATIONS AS SHOWN ON PLANS OR DIRECTED BY ENGINEER)
- Ⓓ EXISTING PORTLAND CEMENT CONCRETE SIDEWALK REMOVAL (AT LOCATIONS AS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- Ⓔ EXISTING SUBBASE, 5" TO 7"
- ▨ ITEMS TO BE REMOVED (AS DIRECTED BY ENGINEER)

**NOTE**

1. LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 PRIOR TO THE SURFACE COURSE.
2. ALL PATCHING OPERATIONS SHALL TAKE PLACE AFTER SURFACE MILLING HAS BEEN COMPLETED.

**PROPOSED LEGEND**

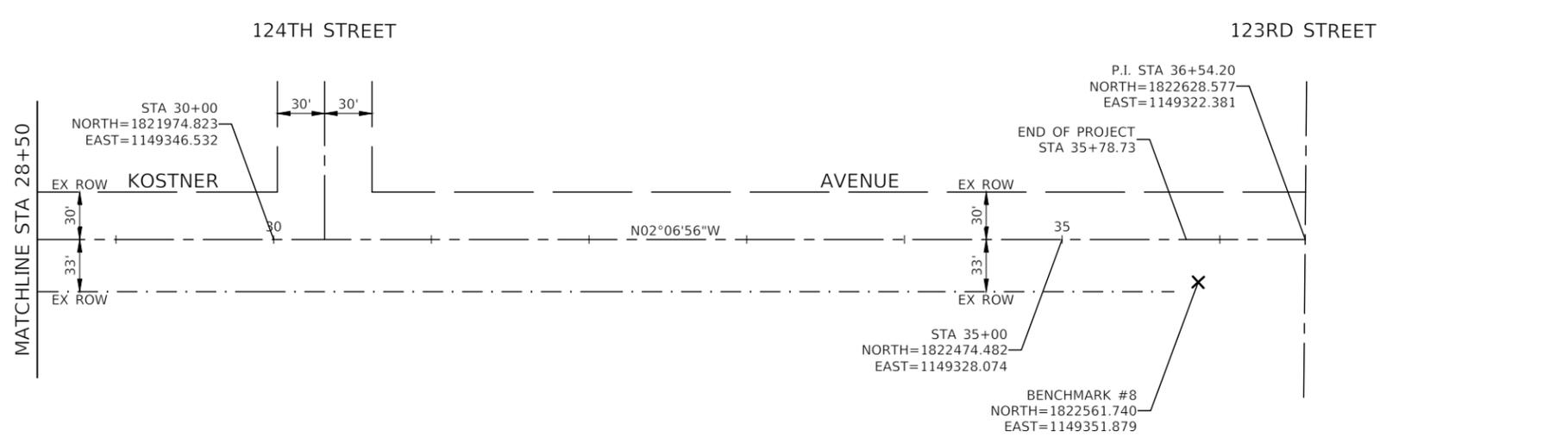
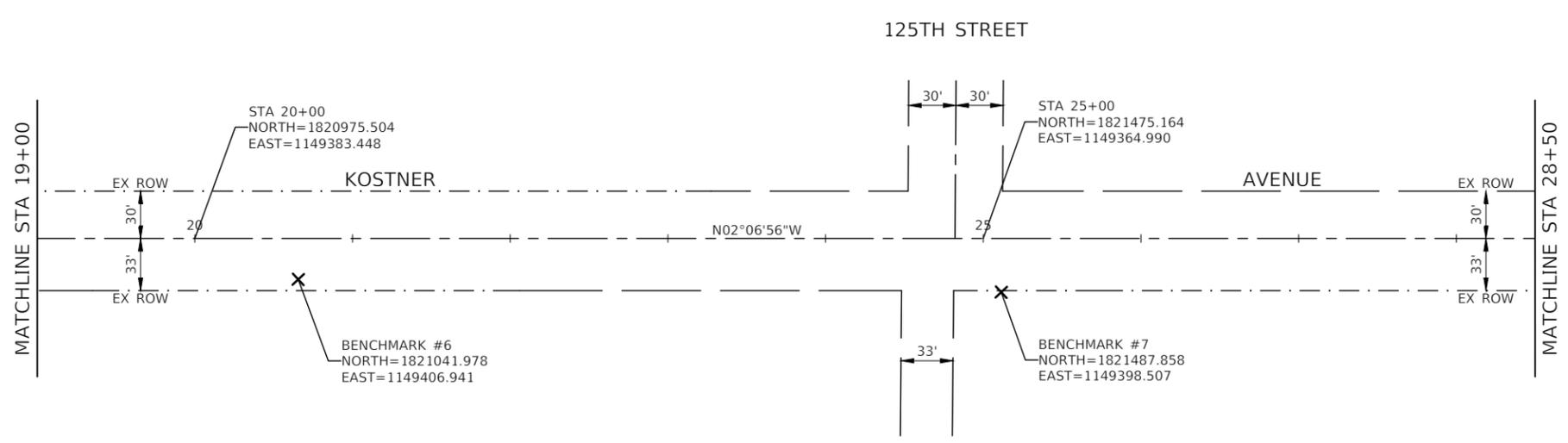
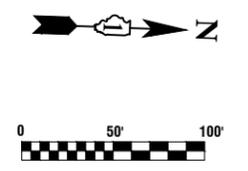
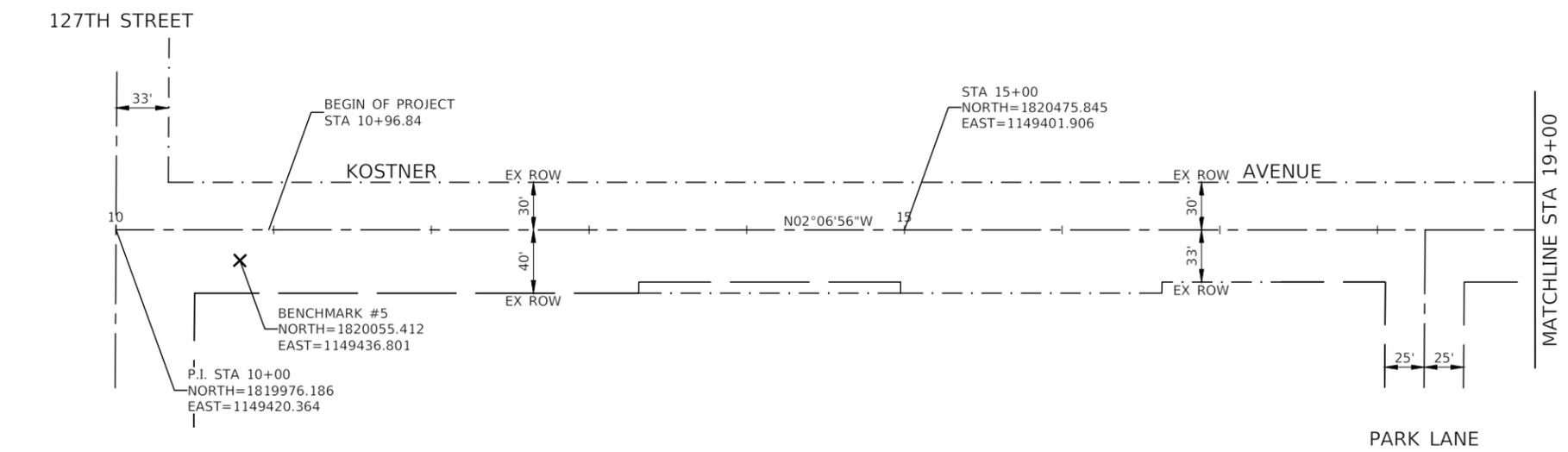
- ① HOT-MIX ASPHALT SURFACE COURSE, IL-9.5. MIX "D", N50, 2"
- ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- ③ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (AT LOCATIONS AS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- ④ CLASS D PATCHES, 9" PREPARATION OF BASE AGGREGATE BASE REPAIR (AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- ⑤ PORTLAND CEMENT CONCRETE SIDEWALK, 5" OR 7" (AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)
- ⑥ AGGREGATE BASE COURSE, TYPE B 4"
- ⑦ TOPSOIL FURNISH AND PLACE, 4" AND SODDING, SALT TOLERANT (AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ENGINEER)

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
<b>ROADWAY RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"	4% @ 50 Gyr.	LR 1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.	LR 1030-2
<b>HMA DRIVEWAY PAVEMENT, 4"</b>		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"	4% @ 50 Gyr.	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"	4% @ 50 Gyr.	LR 1030-2
<b>PATCHING</b>		
CLASS D PATCHES (HMA BINDER IL-19nm), 9"	4% @ 70 Gyr.	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2		

**NOTES:**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE IS 112 LBS/SQ/IN.
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 RECLAIMED MATERIALS SPECIFICATIONS.



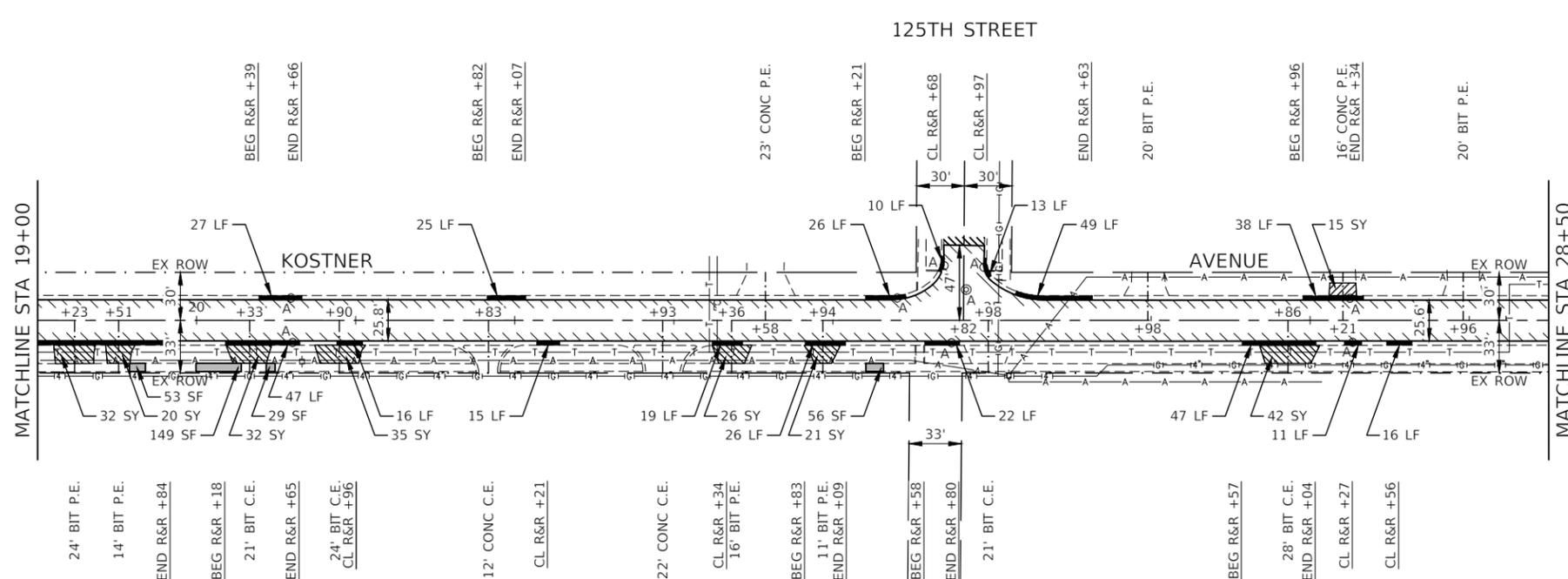
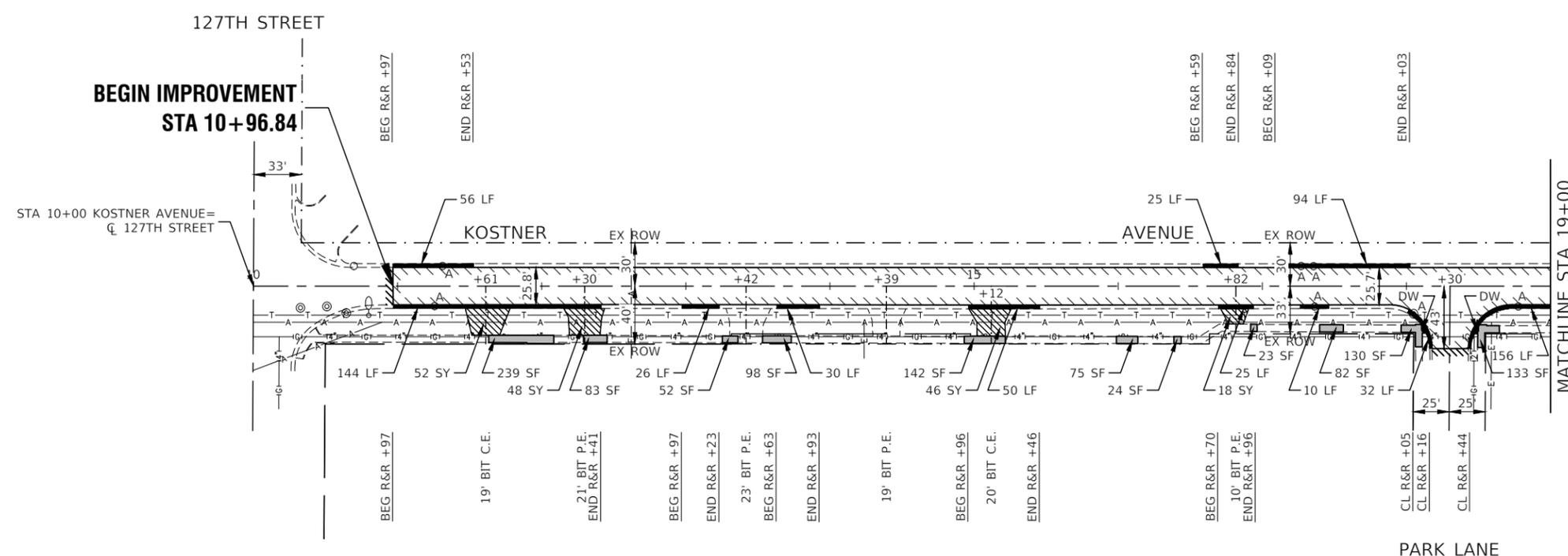
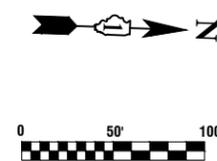
**NOTES**

- COORDINATES ARE BASED ON ILLINOIS STATE PLANE EASTERN ZONE NORTH AMERICAN DATUM 1983
- SURVEY FEET UNITS WERE USED.
- ALL ELEVATIONS REFER TO NAVD88 DATUM.

**BENCHMARKS**

- BENCHMARK #5**  
CROSS ON TOP OF CONC BASE FOR LIGHT POLE AT THE NORTHEAST COR OF 127TH ST & KOSTNER AVE.  
ELEV=623.44
- BENCHMARK #6**  
RR SPIKE IN WEST FACE OF PP IN FRONT OF ALSIP PARK DISTRICT MAINTENANCE BUILDING (12523 KOSTNER AVE).  
ELEV=625.13
- BENCHMARK #7**  
RR SPIKE IN WEST FACE OF PP IN FRONT OF VICTORY BAPTIST CHURCH (12451 KOSTNER AVE).  
ELEV=625.12
- BENCHMARK #8**  
CROSS ON TOP OF CONC BASE FOR LIGHT POLE AT THE SOUTHEAST COR OF 123RD ST & KOSTNER AVE.  
ELEV=598.32

FILE NAME = 23-R0309-TIES-01 - P01	USER NAME =	DESIGNED -- TAG	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>KOSTNER AVENUE ROADWAY RESURFACING ALIGNMENT, TIES AND BENCHMARKS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE =	CHECKED -- WPD	REVISED --					2403	23-00102-00-RS	COOK	21	7		
	PLOT DATE = 08-30-23	DRAWN -- BG	REVISED --		SCALE: 1"=50'				SHEET NO. 7 OF 21 SHEETS		STA. 10+96.84 TO STA. 28+50		CONTRACT NO. 61J81	
		CHECKED -- AG	REVISED --		FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT		KS8H(135)			



**LEGEND**

- HMA SURFACE REMOVAL, 2 1/2" POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- SIDEWALK REMOVAL AND REPLACEMENT PCC SIDEWALK, 5" (7" THRU DRIVEWAYS) AGGREGATE BASE COURSE, TYPE B, 4"
- CLASS D PATCHES, 9"
- DRIVEWAY PAVEMENT REMOVAL HMA DRIVEWAY PAVEMENT, 4"
- DRIVEWAY PAVEMENT REMOVAL PCC DRIVEWAY PAVEMENT, 7"
- DETECTABLE WARNINGS - DW
- COMBINATION CURB AND GUTTER REMOVAL COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (OR IN KIND)
- "A" DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
- "R" DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
- HMA SURFACE REMOVAL - BUTT JOINT
- BEG R&R +XX BEGIN STATION FOR CURB AND GUTTER REMOVAL AND REPLACEMENT
- END R&R +XX END STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT
- CL R&R +XX CENTER STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT (UNDER 20 LINEAL FEET)

**NOTE:**

1. ALL SIDEWALK RAMPS WILL BE IN ACCORDANCE WITH THE HIGHWAY STANDARDS REFERENCED ON SHEET 2.
2. DRIVEWAY REMOVAL AND REPLACEMENT SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER.
3. CLASS D PATCHES, 9" SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER.

FILE NAME = 23-R0309-PLAN-01 - P01  
 USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 08-30-23

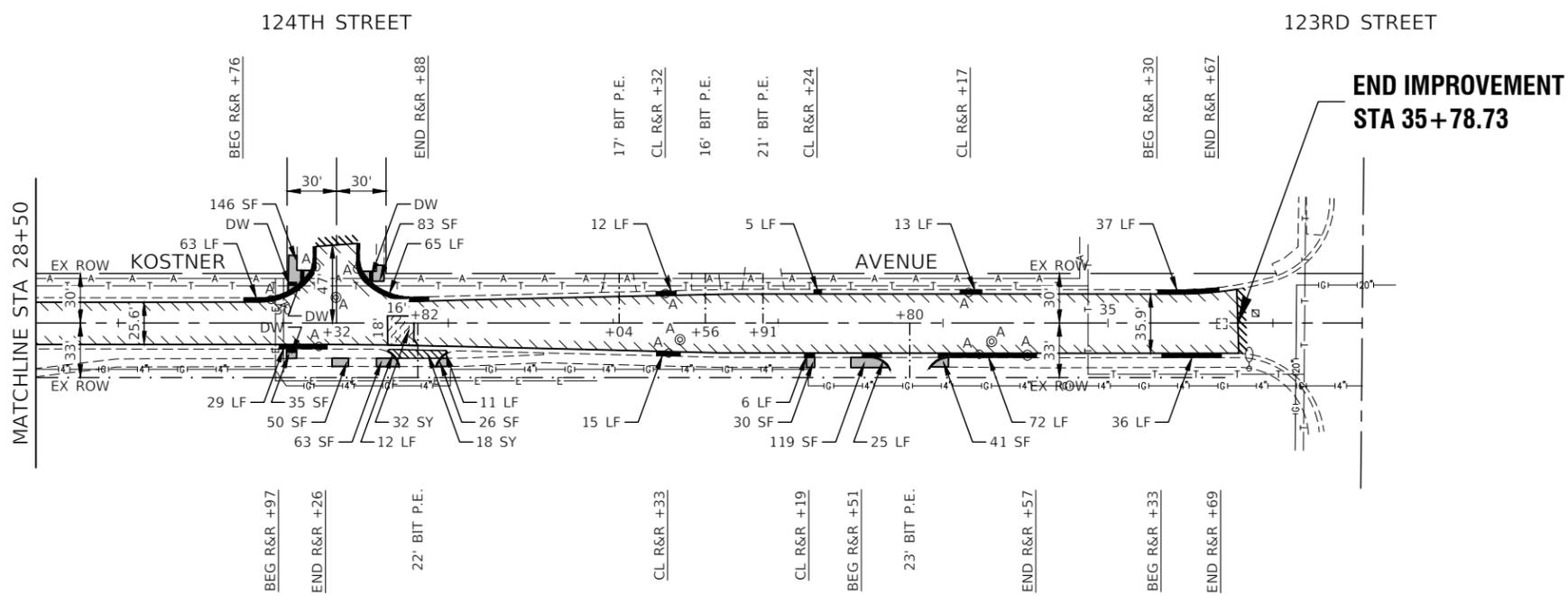
DESIGNED -- TAG	REVISED --
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DRAWN -- BG	REVISED --
CHECKED -- AG	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**KOSTNER AVENUE  
ROADWAY RESURFACING  
PROPOSED IMPROVEMENT PLAN**

SCALE: 1"=50'      SHEET NO. 8 OF 21 SHEETS      STA. 10+96.84 TO STA. 28+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	8
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	KS8H(135)	



**LEGEND**

- HMA SURFACE REMOVAL, 2 1/2" POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"
- SIDEWALK REMOVAL AND REPLACEMENT PCC SIDEWALK, 5" (7" THRU DRIVEWAYS) AGGREGATE BASE COURSE, TYPE B, 4"
- CLASS D PATCHES, 9"
- DRIVEWAY PAVEMENT REMOVAL HMA DRIVEWAY PAVEMENT, 4"
- DRIVEWAY PAVEMENT REMOVAL PCC DRIVEWAY PAVEMENT, 7"
- DETECTABLE WARNINGS - DW
- COMBINATION CURB AND GUTTER REMOVAL COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (OR IN KIND)
- "A" DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
- "R" DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
- HMA SURFACE REMOVAL - BUTT JOINT
- BEG R&R +XX BEGIN STATION FOR CURB AND GUTTER REMOVAL AND REPLACEMENT
- END R&R +XX END STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT
- CL R&R +XX CENTER STATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT (UNDER 20 LINEAL FEET)

**NOTE:**

1. ALL SIDEWALK RAMPs WILL BE IN ACCORDANCE WITH THE HIGHWAY STANDARDS REFERENCED ON SHEET 2.
2. DRIVEWAY REMOVAL AND REPLACEMENT SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER.
3. CLASS D PATCHES, 9" SHALL BE COMPLETED AS DIRECTED BY THE ENGINEER.

FILE NAME = 23-R0309-PLAN-01 - P02

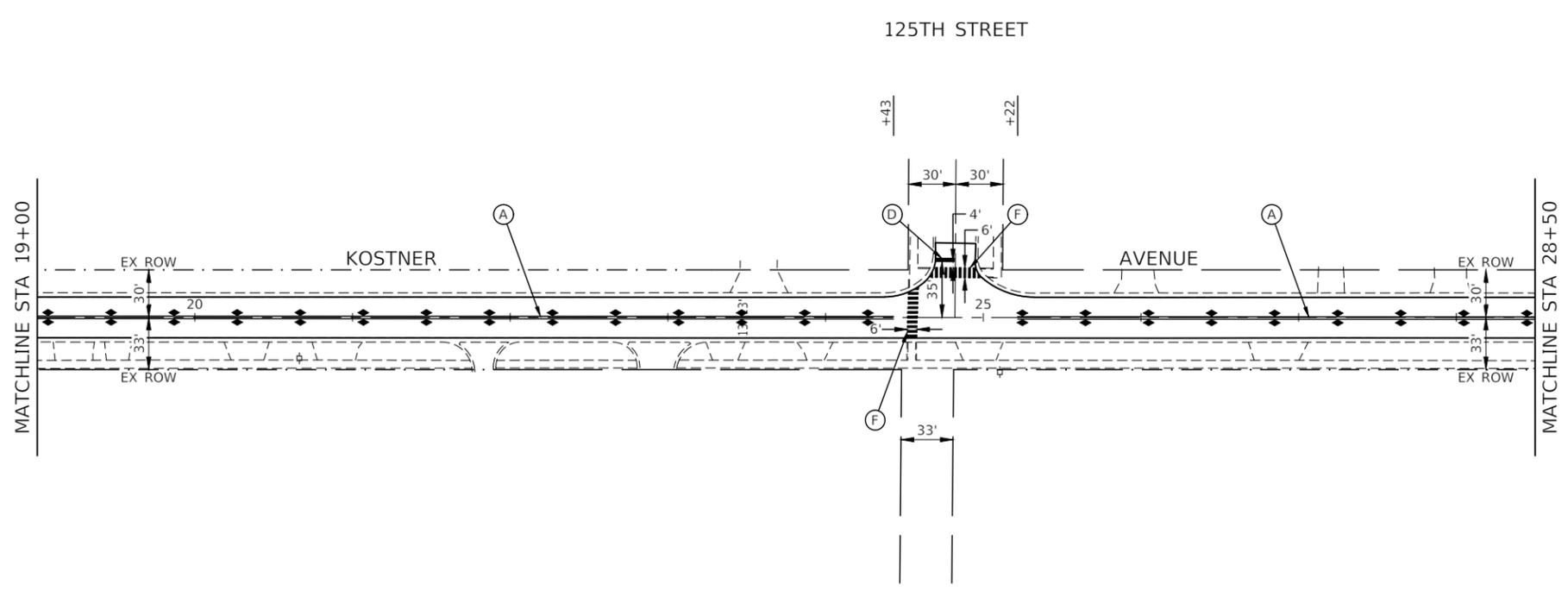
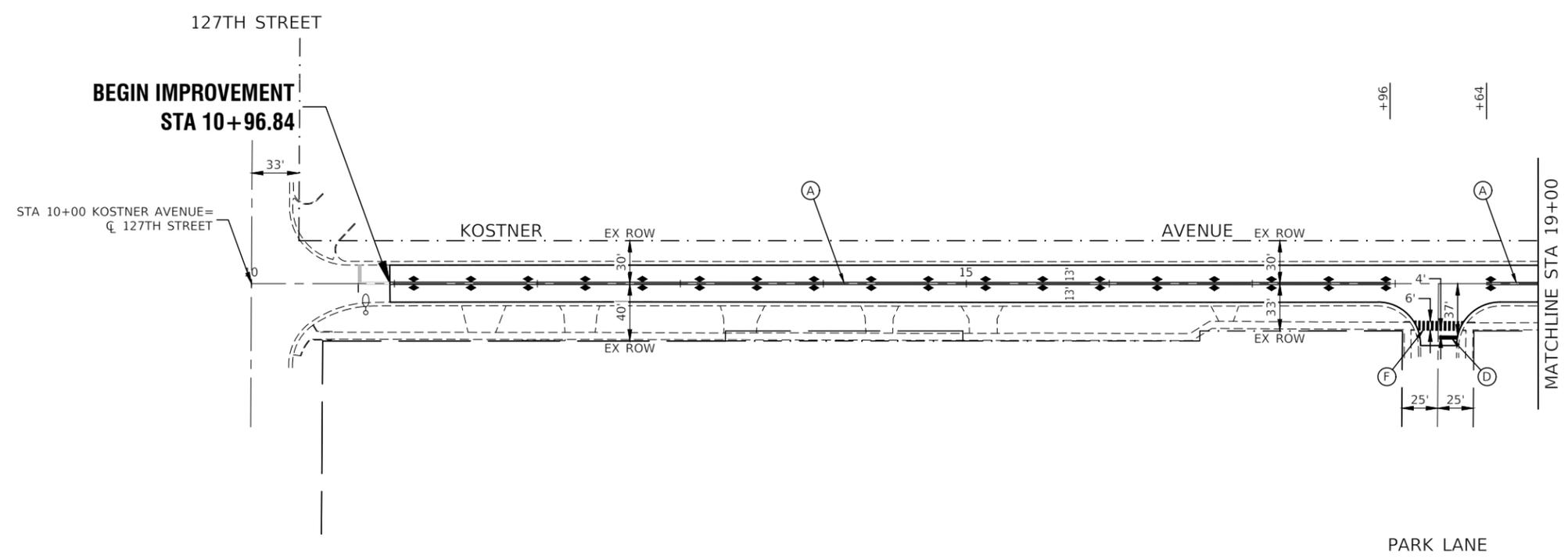
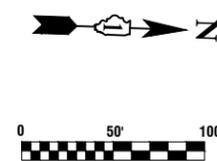
USER NAME =	DESIGNED -- TAG	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- BG	REVISED --
PLOT DATE = 08-30-23	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**KOSTNER AVENUE  
ROADWAY RESURFACING  
PROPOSED IMPROVEMENT PLAN**

SCALE: 1"=50'      SHEET NO. 9 OF 21 SHEETS      STA. 28+50 TO STA. 35+78.73

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	9
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)				



- PAVEMENT MARKING LEGEND**
- (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW LINE (11" C-C)
  - (B) THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE LANE LINE
  - (C) THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW DIAGONAL LINE (75' C-C OR 5' EQUALLY SPACED)
  - (D) THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR LINE
  - (E) THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
  - (F) THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CROSS-WALK (3' C-C)
  - (G) THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH (2' LINE-6' SPACE)
  - [ ] DETECTOR LOOP REPLACEMENT

- RAISED REFLECTIVE PAVEMENT MARKER**
- ▲ ONE-WAY AMBER MARKER  
40' C/C UNLESS OTHERWISE INDICATED
  - ▲ ONE-WAY CRYSTAL MARKER  
40' C/C UNLESS OTHERWISE INDICATED
  - ◆ TWO-WAY AMBER MARKER  
40' C/C UNLESS OTHERWISE INDICATED

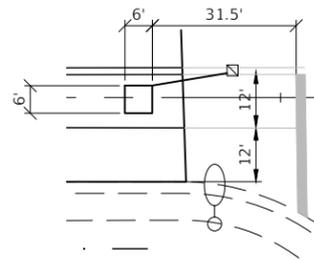
- NOTES**
1. SEE TC-13 DISTRICT ONE DETAIL FOR TYPICAL PAVEMENT MARKING GUIDANCE.
  2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.
  3. SEE TC-11 DISTRICT ONE DETAIL FOR RAISED REFLECTIVE PAVEMENT MARKING GUIDANCE.

FILE NAME = 23-R0309-PVMK-01 - P01	USER NAME =	DESIGNED -- TAG	REVISED --
		CHECKED -- WPD	REVISED --
	PLOT SCALE =	DRAWN -- BG	REVISED --
	PLOT DATE = 08-30-23	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

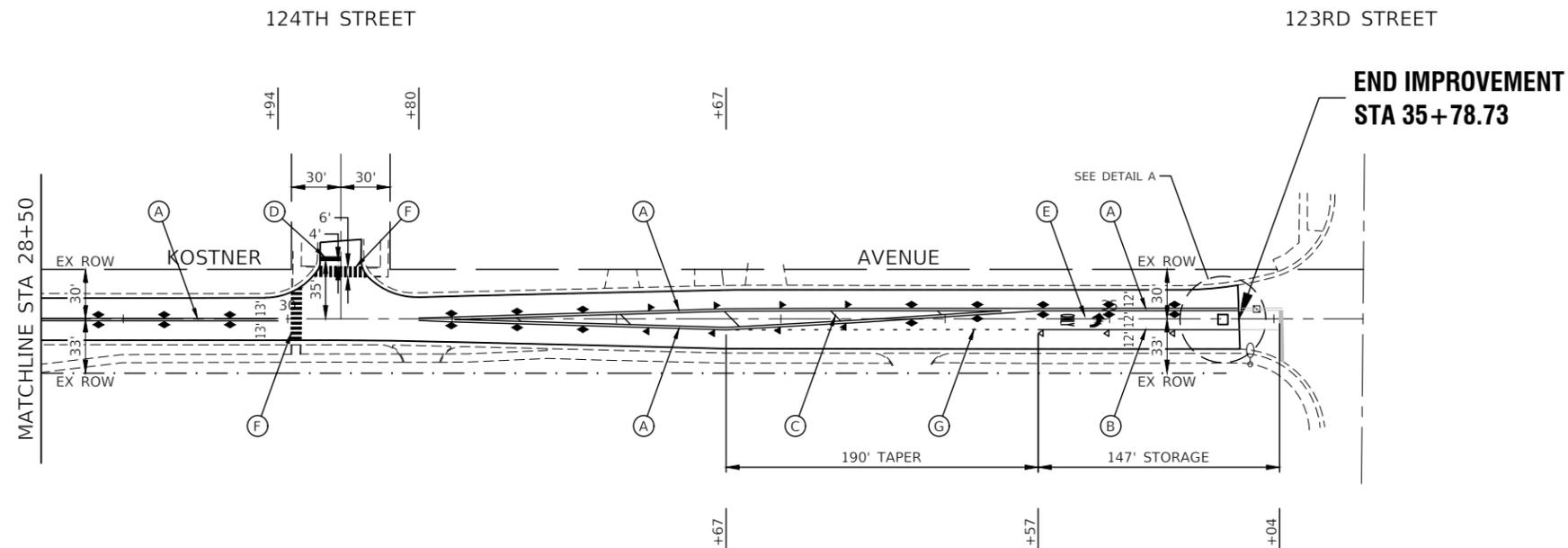
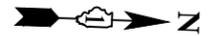
<b>KOSTNER AVENUE ROADWAY RESURFACING PAVEMENT MARKING PLAN</b>	
SCALE: 1"=50'	SHEET NO. 10 OF 21 SHEETS
STA. 10+96.84	TO STA. 28+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	10
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)				



**DETAIL A**

DETECTOR LOOP REPLACEMENT DETAIL  
SCALE 1"=20'



**PAVEMENT MARKING LEGEND**

- (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" DOUBLE YELLOW LINE (11" C-C)
- (B) THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE LANE LINE
- (C) THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW DIAGONAL LINE (75' C-C OR 5 EQUALLY SPACED)
- (D) THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE STOP BAR LINE
- (E) THERMOPLASTIC PAVEMENT MARKING - WHITE LETTERS & SYMBOLS
- (F) THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE CROSS-WALK (3' C-C)
- (G) THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE SKIP DASH (2' LINE-6' SPACE)
- DETECTOR LOOP REPLACEMENT

**RAISED REFLECTIVE PAVEMENT MARKER**

- ◀ ONE-WAY AMBER MARKER  
40' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY CRYSTAL MARKER  
40' C/C UNLESS OTHERWISE INDICATED
- ◆ TWO-WAY AMBER MARKER  
40' C/C UNLESS OTHERWISE INDICATED

**NOTES**

1. SEE TC-13 DISTRICT ONE DETAIL FOR TYPICAL PAVEMENT MARKING GUIDANCE.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SHOWN.
3. SEE TC-11 DISTRICT ONE DETAIL FOR RAISED REFLECTIVE PAVEMENT GUIDANCE.

FILE NAME = 23-R0309-PVMK-01 - P02

USER NAME =	DESIGNED -- TAG	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- BG	REVISED --
PLOT DATE = 08-30-23	CHECKED -- AG	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

KOSTNER AVENUE ROADWAY RESURFACING PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET NO. 11 OF 21 SHEETS
STA. 28+50	TO STA. 35+78.73

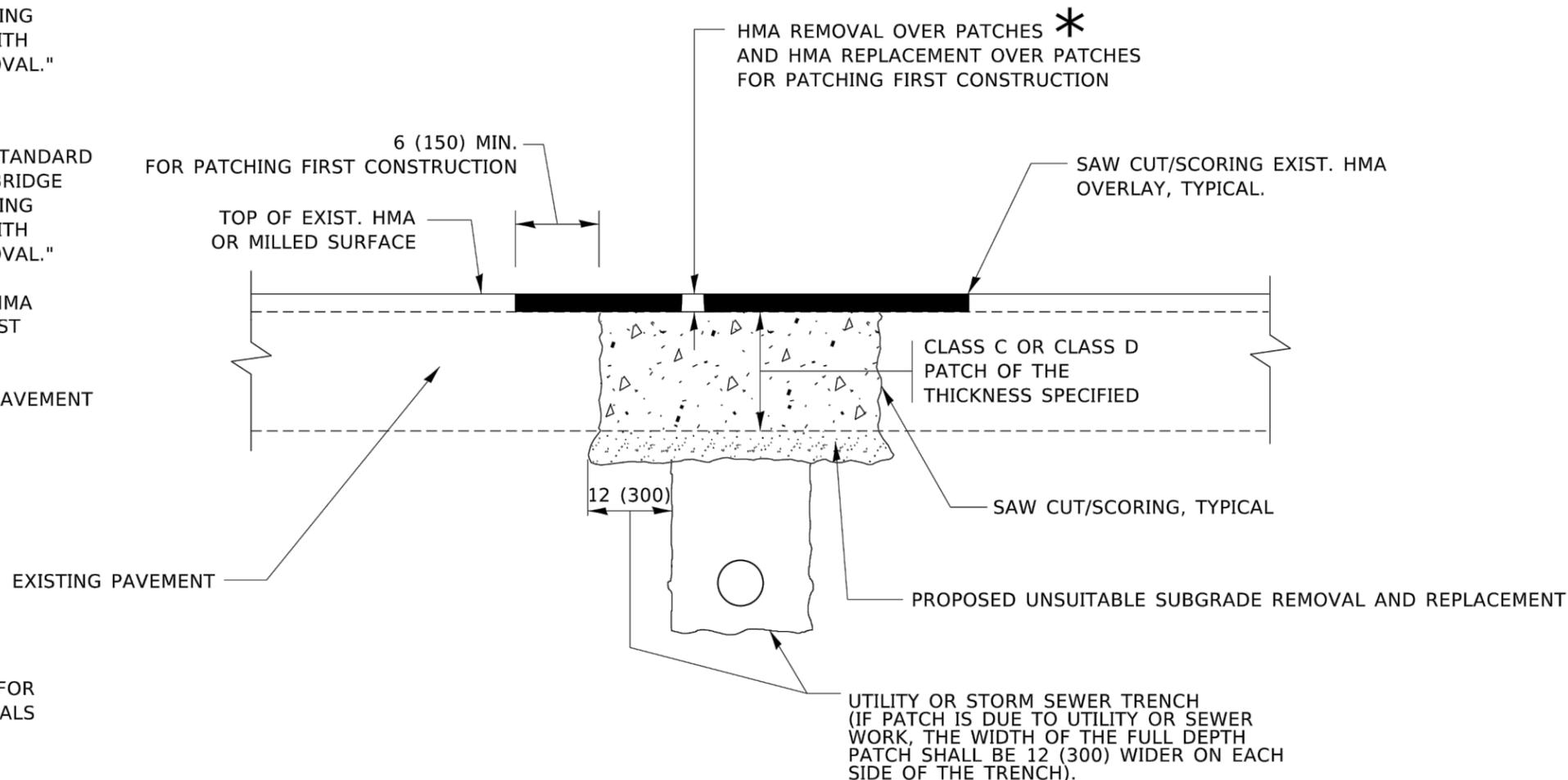
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	11
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)				

**METHOD OF MEASUREMENT**

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

**BASIS OF PAYMENT**

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

1. MILL HMA FIRST IF THERE IS AT LEAST 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.

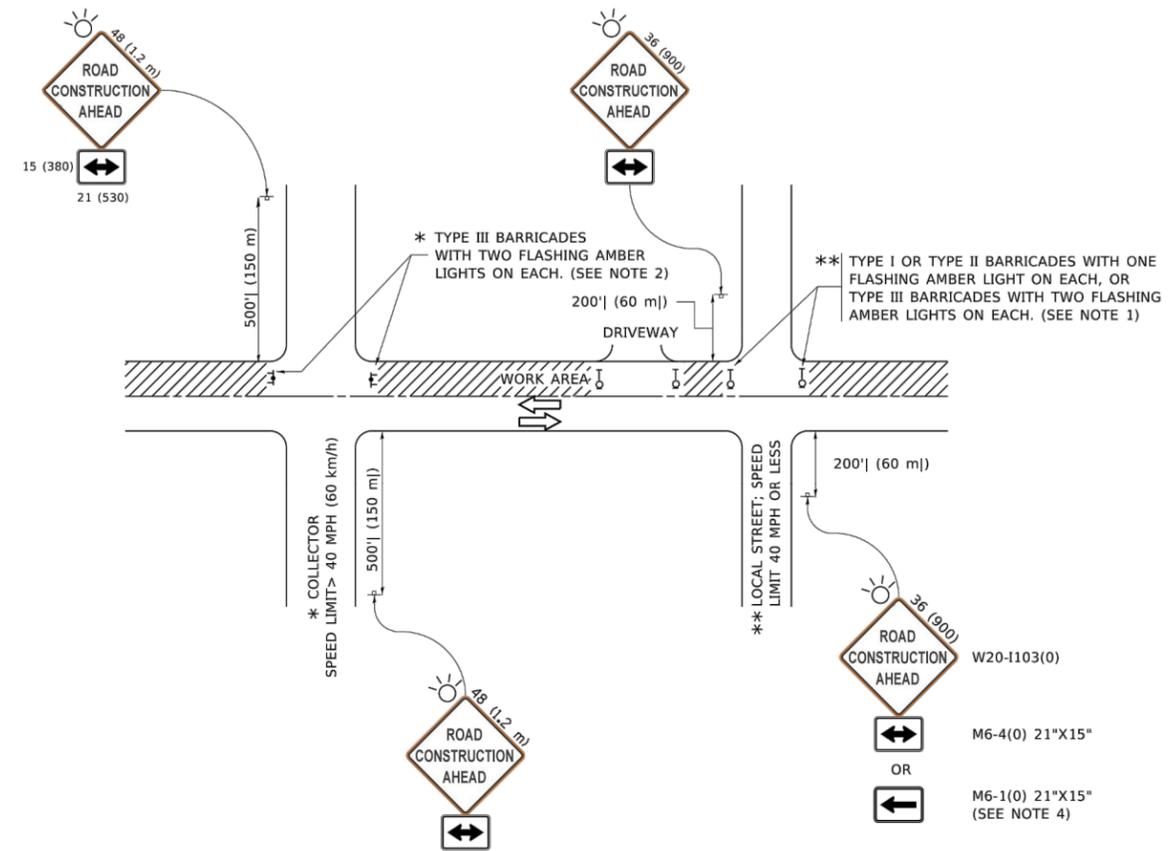
FILE NAME: p:\1118-gw-bentley.com\1118DOT\Documents\DOT Offices\Shirley 1\Projects\Dissemination\CAD\Drawings\bd22.dgn

USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	BD400-04 (BD-22) CONTRACT NO.			
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. ENG 10-27-08			ILLINOIS FED. AID PROJECT						
		REVISED - K. SMITH 11-18-22									

FILE NAME = 23-R0309-DTLS-01 - BD22	USER NAME =	DESIGNED --	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 DETAILS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	CHECKED --	REVISED --	SCALE:			SHEET NO. 12 OF 21 SHEETS	STA. TO STA.	2403	23-00102-00-RS	COOK	21	12
	PLOT SCALE =	DRAWN --	REVISED --			CONTRACT NO. 61J81						
	PLOT DATE =	CHECKED --	REVISED --			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)						



FILE NAME: P:\110848\BID\NTEG\Illinois\gov\PW\DOT\Documents\DOT\Office\District 1\Projects\Dist1\23-0012-00-RS\23-0012-00-RS\TC10.dgn



**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.

USER NAME = foctemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 3/4/2019	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**

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

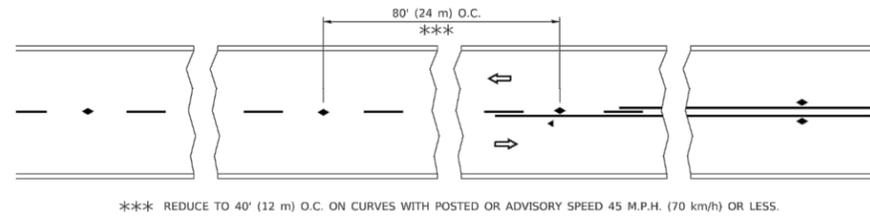
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USER NAME =	DESIGNED --	REVISED --
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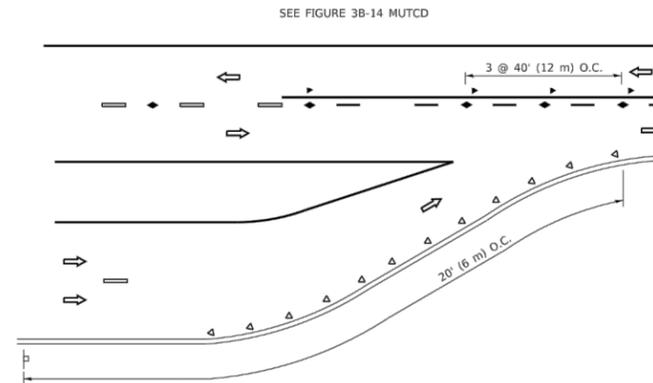
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 DETAILS**

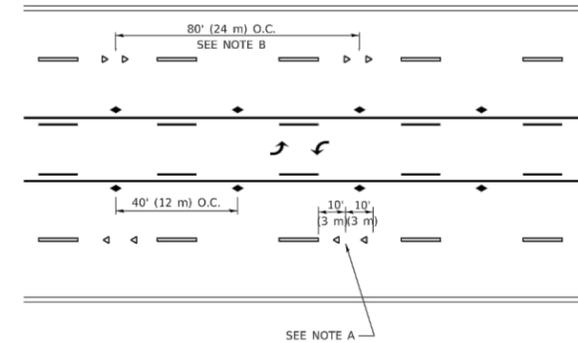
SCALE:	SHEET NO. 14 OF 21 SHEETS	STA.	TO STA.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				2403	23-0012-00-RS	COOK	21	14
				CONTRACT NO. 61J81				
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KSBH(135)				



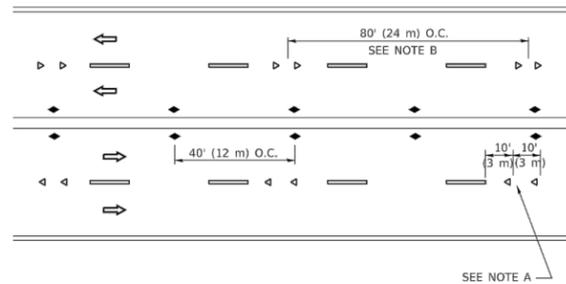
**TWO-LANE/TWO-WAY**



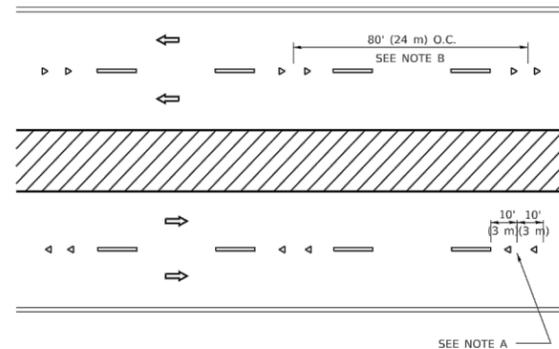
**LANE REDUCTION TRANSITION**



**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**

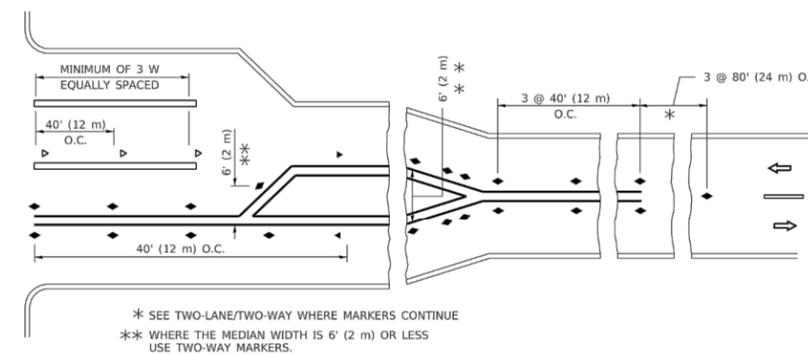
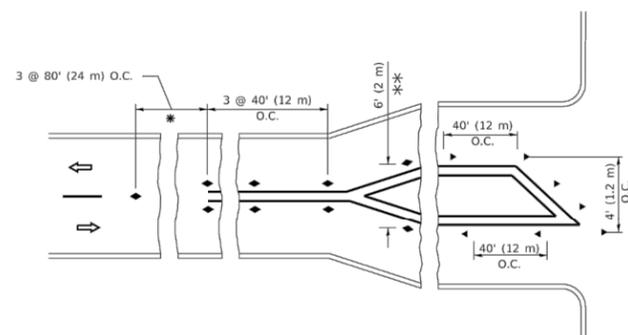
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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.



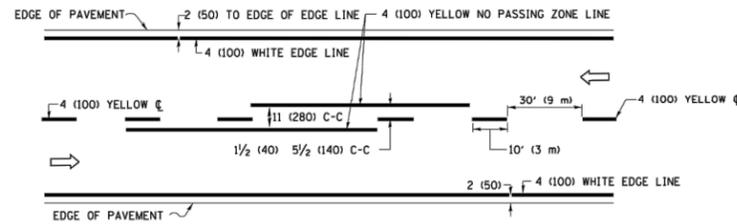
**TURN LANES**

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

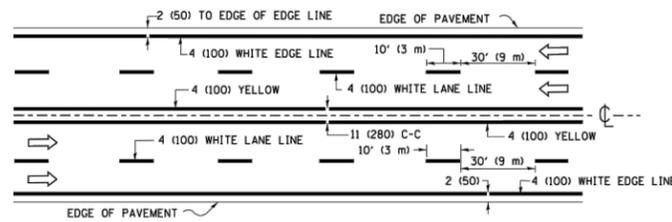
USER NAME = foctemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS</b> <b>RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED - T. RAMMACHER 01-06-00					SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			TC-11 CONTRACT NO.	
PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 09-09-09					ILLINOIS FED. AID PROJECT				
	DATE -	REVISED - C. JUCIUS 07-01-13									

FILE NAME = 23-R0309-DTLS-01 - TC11	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	REVISED -						SCALE: SHEET NO. 15 OF 21 SHEETS STA. TO STA.			2403 23-00102-00-RS COOK 21 15 CONTRACT NO. 61J81	
	DRAWN -	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)				
	CHECKED -	REVISED -										

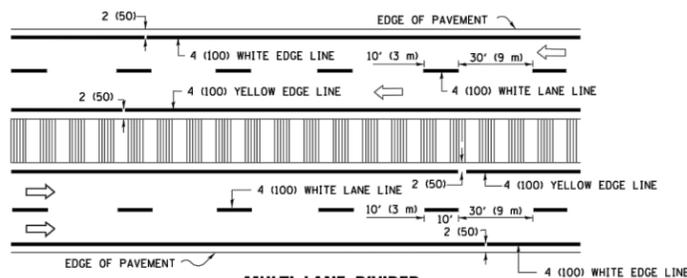
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**2-LANE ROADWAY**

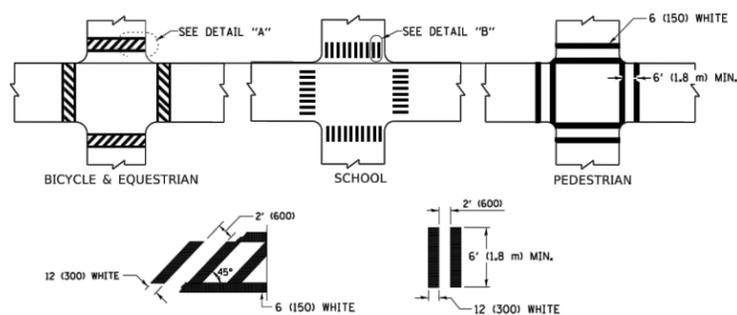


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

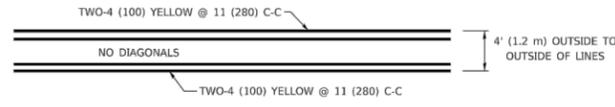


**DETAIL "A"**

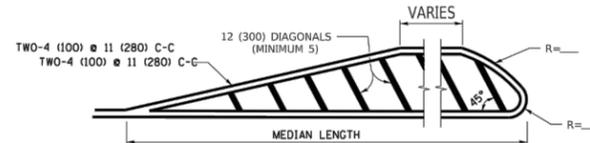
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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



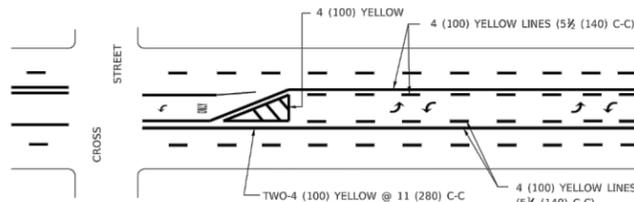
**4' (1.2 m) WIDE MEDIANS ONLY**



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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))

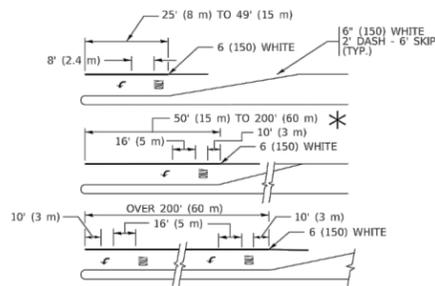
**MEDIANS OVER 4' (1.2 m) WIDE**



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

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

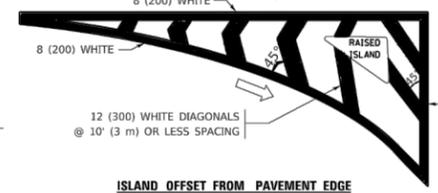
**TYPICAL PAINTED MEDIAN MARKING**



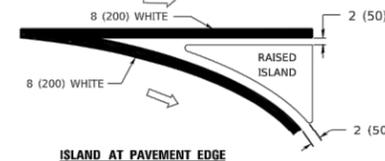
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

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

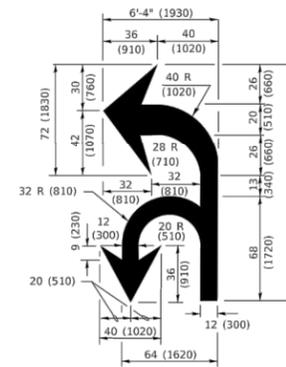


**ISLAND OFFSET FROM PAVEMENT EDGE**

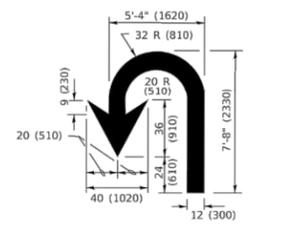


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**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 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.

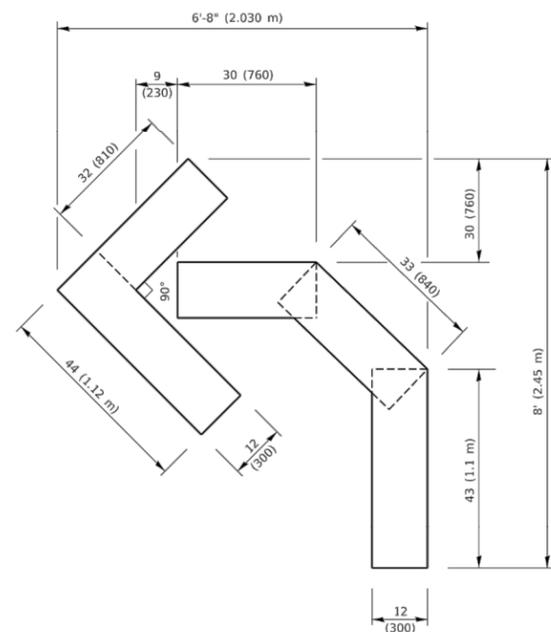
USER NAME = foaternj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13			TC-13					
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15			CONTRACT NO.					
		REVISED - C. JUCIUS 04-12-16			ILLINOIS FED. AID PROJECT					

FILE NAME = 23-R0309-DTL5-01 - TC13

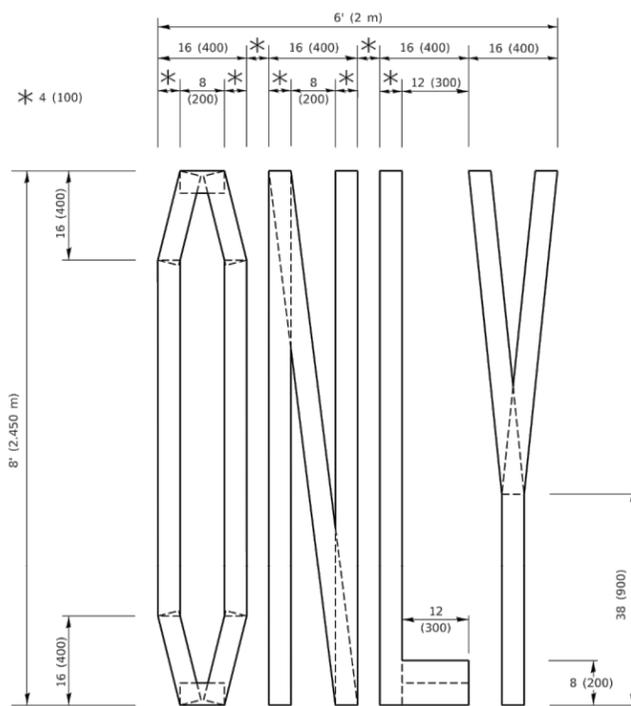
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

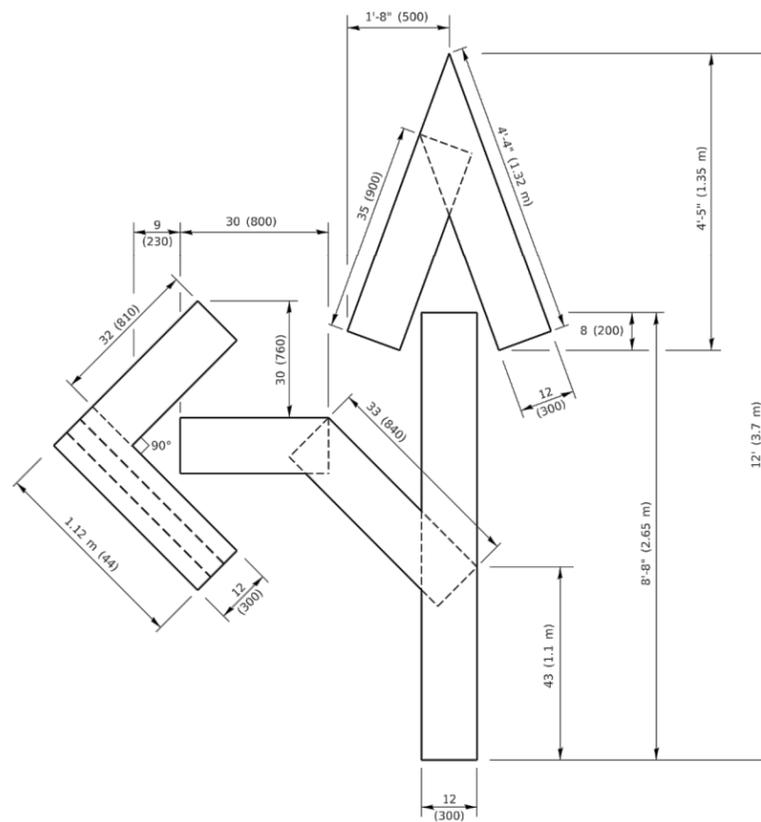
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			2403	23-00102-00-RS	COOK	21	16
						CONTRACT NO. 61J81	
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KSBH(135)	



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

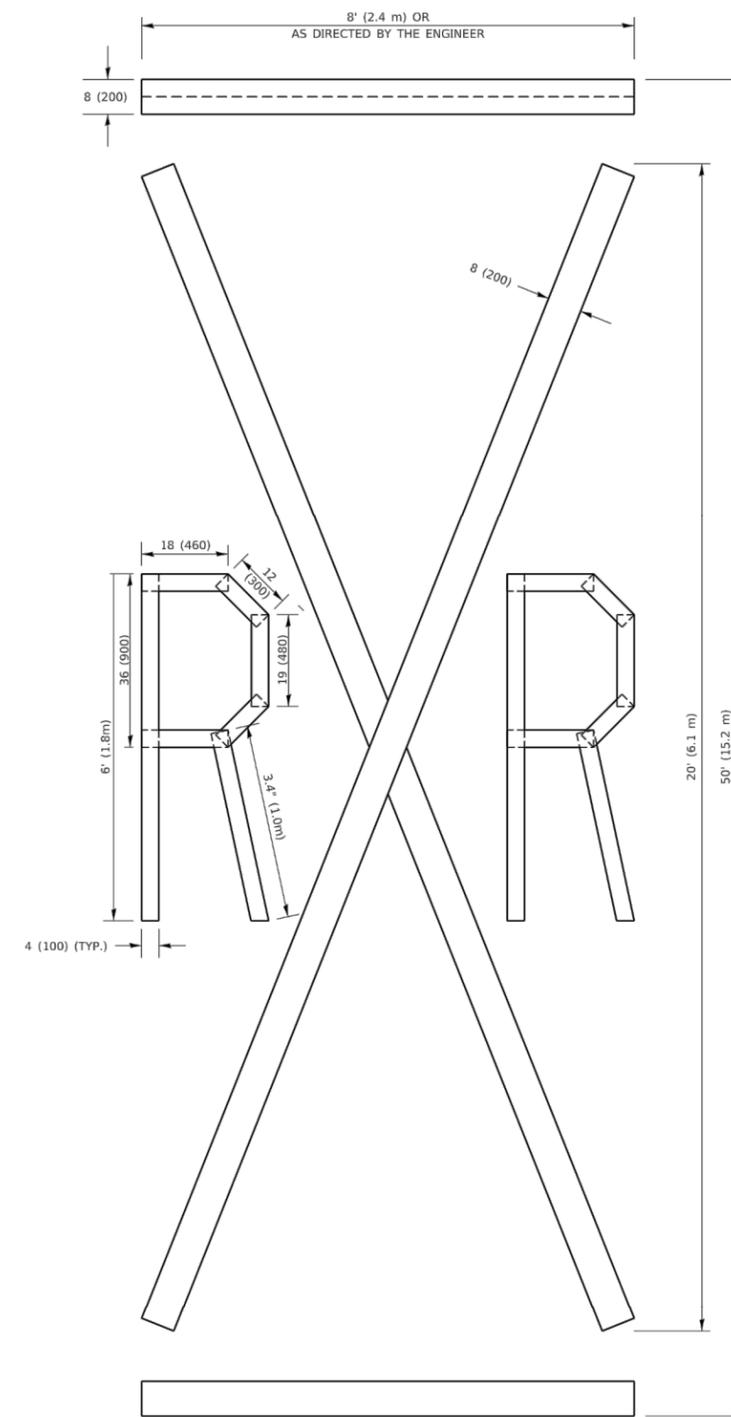


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**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.

FILE NAME: P:\ALU0848\BID\NTEG\Illinois\gov\PW\DOT\Documents\DOT\Offices\District 1\Projects\DSHS\23-R0309-DTLs\17-C16.dgn

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PLOT SCALE = 50.0068 ' / in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	CHECKED -	REVISED - E. GOMEZ 08-28-00
	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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-16			
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

FILE NAME = 23-R0309-DTLs-01 - TC16

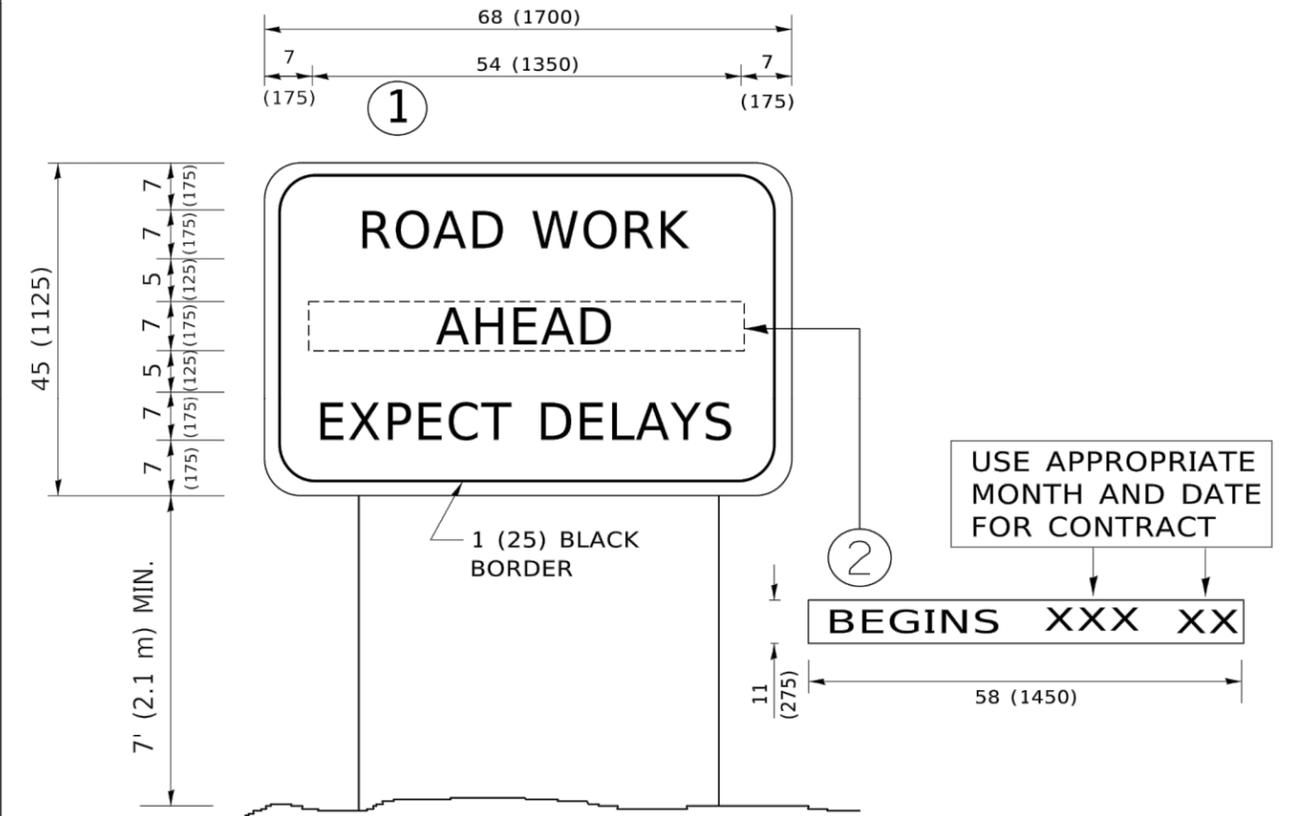
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 DETAILS**

SCALE: SHEET NO. 17 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	17
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KS8H(135)			CONTRACT NO. 61J81	



**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.

FILE NAME: P:\110848\BID\NTEC\Illinois\gov\PW\DOT\Documents\DOT Offices\District 1\Projects\DH55522\34\CAD\Drawn\CAD\Sheet\127.dgn

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PLOT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. JUCIUS 01-31-07

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

<b>ARTERIAL ROAD INFORMATION SIGN</b>	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>TC-22</b>		<b>CONTRACT NO.</b>		
ILLINOIS FED. AID PROJECT				

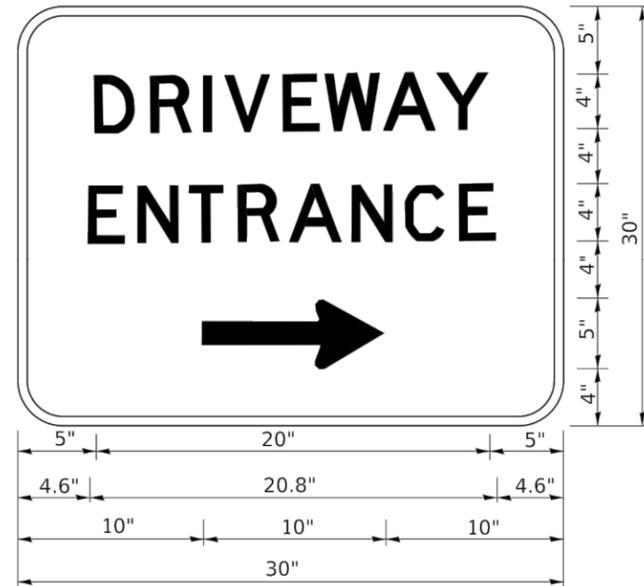
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USER NAME =	DESIGNED --	REVISED --
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PLOT SCALE =	DRAWN --	REVISED --
PLOT DATE =	CHECKED --	REVISED --

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	
SCALE:	SHEET NO. 18 OF 21 SHEETS STA. TO STA.

<b>DISTRICT 1 DETAILS</b>	
SCALE:	SHEET NO. 18 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	18
<b>CONTRACT NO. 61J81</b>		ILLINOIS FED. AID PROJECT KSBH(135)		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME: p:\planning\dm\illinois\pwr\DOT\Documents\DOT\_Offices\District\_1\Projects\District\_1\CADD\Map\CAD\Sheet216.dgn

USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>TC-26</b>		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

FILE NAME = 23-R0309-DTLS-01 - TC26
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USER NAME =	DESIGNED --	REVISED --
	CHECKED --	REVISED --
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PLOT DATE =	CHECKED --	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

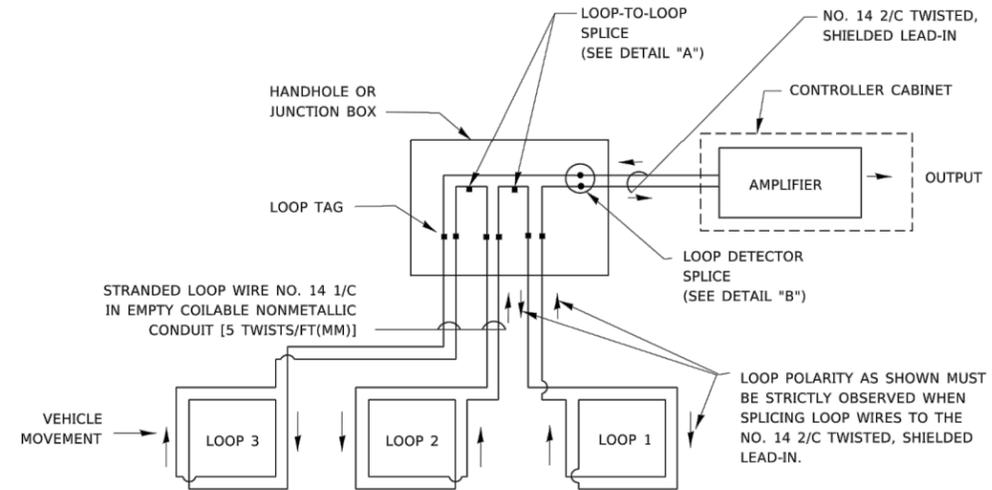
**DISTRICT 1 DETAILS**

SCALE: SHEET NO. 19 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	19
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KSBH(135)				

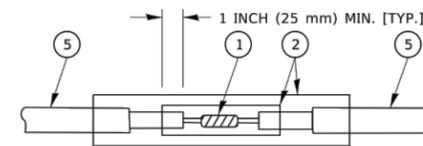
**LOOP DETECTOR NOTES**

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.

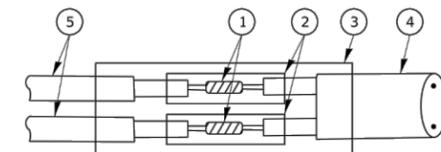


**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

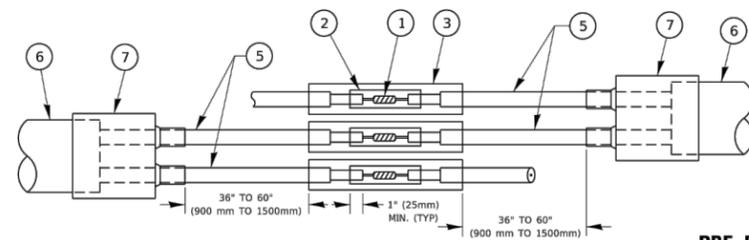


DETAIL "A"  
LOOP-TO-LOOP SPLICE

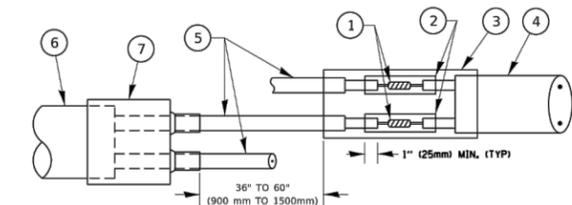


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



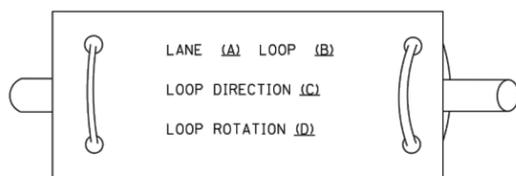
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**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

**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.

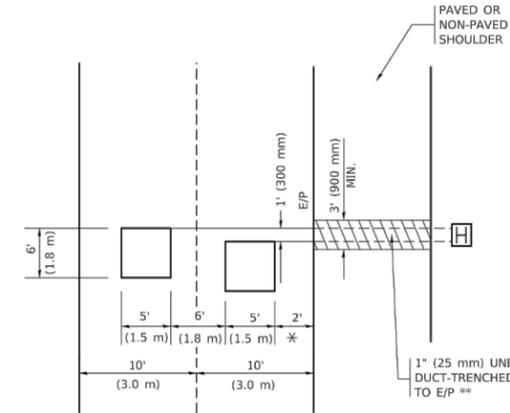
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USER NAME = footemj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -		SCALE: NONE	SHEET 2 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b> CONTRACT NO.				
PLOT DATE = 3/4/2019	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
	DATE -	REVISED -									

FILE NAME = 23-R0309-DTLS-01 - TS06B	USER NAME =	DESIGNED --	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED --	REVISED --		SCALE:	SHEET NO. 20 OF 21 SHEETS	STA. TO STA.	<b>2403</b> 23-00102-00-RS COOK 21 20				
		DRAWN --	REVISED --		CONTRACT NO. 61J81							
		CHECKED --	REVISED --		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KSBH(135)							

**LOOPS NEXT TO SHOULDERS**

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



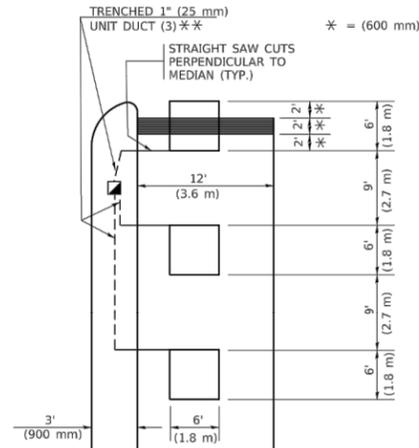
\* = (600 mm)

\*\* 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.

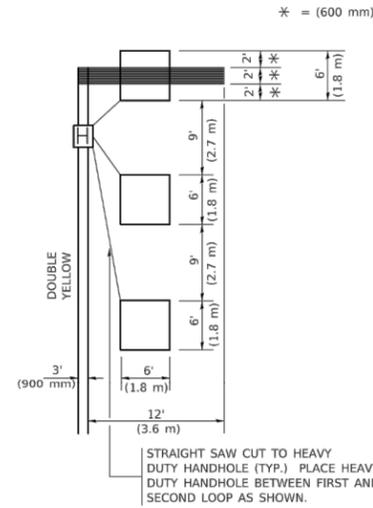


\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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)



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

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**PLACEMENT OF DETECTORS**

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

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

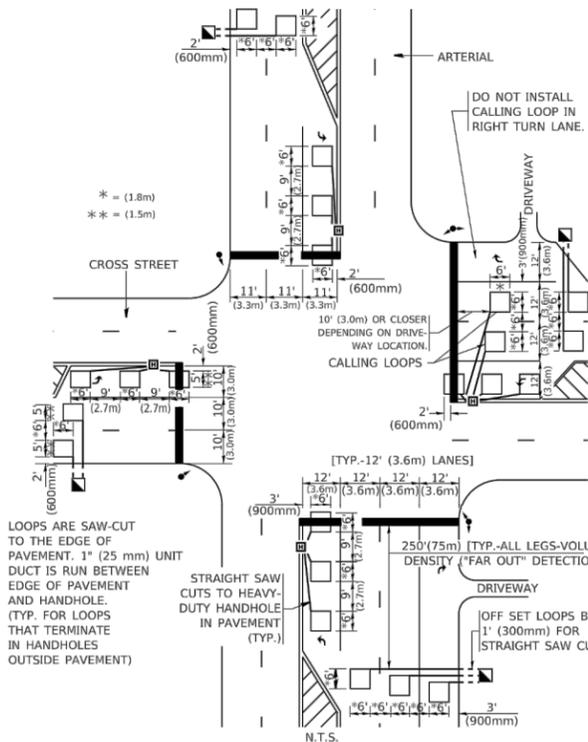
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

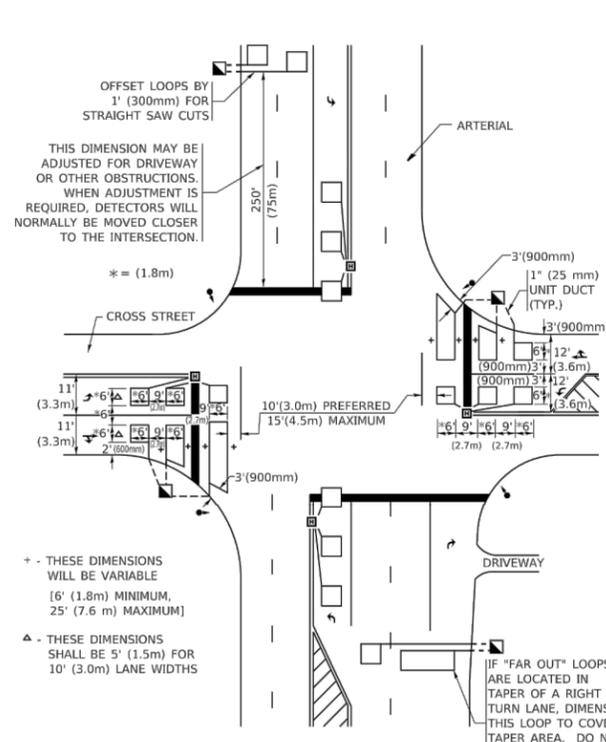
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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



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

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



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

USER NAME = foctemj	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-07			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

FILE NAME = 23-R0309-DTL5-01 - TS07

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

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

**DISTRICT 1 DETAILS**

SCALE:	SHEET NO. 21	OF 21 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2403	23-00102-00-RS	COOK	21	21
CONTRACT NO. 61J81				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT KSBH(135)				