1-20-2012 LETTING ITEM 105

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

POSTED SPEED LIMIT = 45 MPH

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: ROBERT BORO

PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

TRAFFIC DATA

ADT 2008

 \circ

 \circ

PROJECT IS LOCATED IN THE VILLAGE OF ROMEOVILLE

= 27.000

PROPOSED HIGHWAY PLANS

FAU ROUTE 0378: JOLIET ROAD
0.3 MI. NE OF BLUFF ROAD TO IL 53
SECTION 29Y-RS-3

(3P) RESURFACING WILL COUNTY

C-91-339-11

R 10 E

WOOD

(847) 705-4237

PROJECT BEGINS

PROJECT ENDS STA. 70 + 50

STA. 25 + 00

T 36 N

LOCKPORT TOWNSHIP

GROSS LENGTH = 4,550 FT. = 0.86 MILE

NET LENGTH = 4,550 FT. = 0.86 MILE

CONTRACT NO. 60N69

1-800-892-0123

 F.A.U. RTE. 0378
 SECTION
 COUNTY
 TOTAL SHEETS NO.
 SHEET NO.

 0378
 29Y-RS-3
 WILL
 18
 1

 ILLINOIS
 CONTRACT
 NO.
 60N69

D-91-339-11



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED OCTOBER 21, 20 11

Diane M. O'Keeke 95
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Decomber 9 20 11

Scott E. Stitt P.E. la. acting Engineer of Design and Environment

December 9 20 11

Dilliam R. Fleylor Director OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.

DESCRIPTION

- TITLE SHEET.
- 2. INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
- SUMMARY OF QUANTITIES
- 4-5. TYPICAL SECTIONS
- 6-7. ROADWAY & PAVEMENT MARKING PLANS
- 8. DETECTOR LOOP REPLACEMENT PLAN
- 9. DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
- 10. PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)
- 11. BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS (BD-32)
- 12. TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
- TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
- 14. DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC-14)
- 16. PAVEMENT MARKING LETTER AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
- 17. ARTERIAL ROAD INFORMATION SIGNING (TC-22)
- 18. DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE STANDARDS

STANDARD NO DESCRIPTION

442201-03 CLASS C AND D PATCHES
701101-02
701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701421-04 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH

701426-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH

701606-08 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901-02 TRAFFIC CONTROL DEVICES

GENERAL NOTES:

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF ROMEOVILLE.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS
OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS
AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM 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:HI).

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND REVISED 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.

THE ENGINEER SHALL CONTACT LAWRENCE HILL, AREA TRAFFIC FIELD ENGINEER AT 847-715-8428 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

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	PLOT DATE = 10/24/2011	DATE -	REVISED

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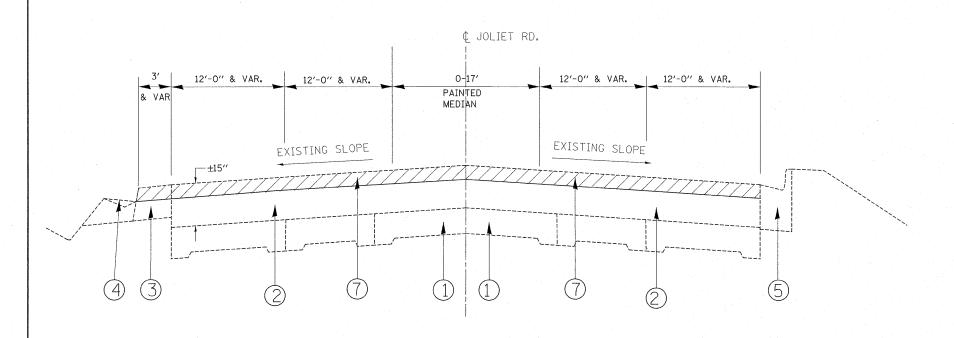
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

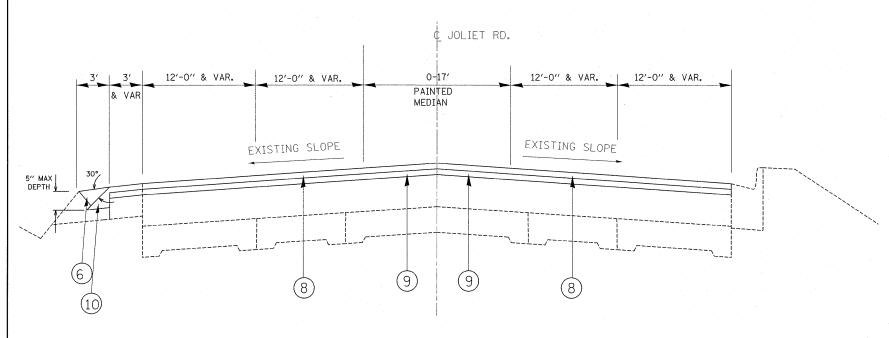
SHEET NO. OF SHEETS STA.

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0378	3		29Y	RS-3			WILL	18	
							CONTRACT	NO.	60N6
FFD.	ROAD	DIST.	NO.	ILL INOIS	FED.	AID	PROJECT		-

	SUMMARY OF QUANTITIES		1001 STATE		C	ONSTRUCT	ION TYPE	CODE 000	J5		SUMMAI	RY OF QUANTIT	IES		1001.51918	-	<u> </u>	ONSTRUCTI	ION TIPE	CODE 000)5 T
CODE NO	ITEM	UNIT	TOTAL OUANTITIES							CODE NO		ITEM		UNIT	TOTAL OUANTITIES						
				0005						72000550	THE DIAGRE AST	C DAVEMENT MAI	DY INC	FOOT	250	250					
0600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	31	31						₹ 78000650	- LINE 24"	C PAVEMENT MAI	KKING	7001	230	230					
0600300	AGGREGATE (PRIME COAT)	TON	152	152						X 78100100	RAISED REFLE	CTIVE PAVEMEN	T MARKER	EACH	581	581					
0600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	57	57						78300200	RAISED REFLE REMOVAL	CTIVE PAVEMEN	T MARKER	EACH	520	520					
10600895	CONSTRUCTING TEST STRIP	EACH	1	1						¥ 88600600	DETECTOR LOC	P REPLACEMENT		FOOT	837	837					
10600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	126.5	126.5						X2020110	GRADING AND	SHAPING SHOUL	DERS	UNIT	86	86					
10603148	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	TON	4255	4255						x6030310	FRAMES AND L (SPECIAL)	.IDS TO BE ADJ	USTED	EACH	9	9					
10603153	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	4255	4255						Z0004562	COMBINATION REMOVAL AND	CONCRETE CURB REPLACEMENT	AND GUTTER	FOOT	760	760					
14000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SO YD	37990	37990						Z0018500	DRAINAGE STE	RUCTURES TO BE	CLEANED	EACH	35	35					
14201823	CLASS D PATCHES, TYPE I. 15 INCH	SO YD	11	. 11						Z0030850	TEMPORARY IN	FORMATION SIG	NING	SO FT	51.4	51.4					
14201827	CLASS D PATCHES, TYPE 11. 15 INCH	SO YD	69	69						Z0034105	MATERIAL TRA	ANSFER DEVICE		TON	8510	8510					
44201831	CLASS D PATCHES, TYPE III, 15 INCH	SO YD	75	75						70102632		ROL AND PRO	OTECTION,	L SUN	1 /	1					
14201833	CLASS D PATCHES, TYPE IV. 15 INCH	SO YD	1222	1222							STANDARD	(0160Z			,						
8102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	204	204																	
7000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2																	
7100100	MOBILIZATION	L SUM	1	1																	
70100310		L SUM	1	i													· **				
70102625		L SUM	1	1																	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.	1																	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5880	5880																	
70300210		SO FT	440	440																	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	24366	24366																	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1780	1780																-	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	650	650												-					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	250	250											5						
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	440	440																	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	24366	24366	-																
8000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1780	1780																	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	650	650															-		
											*Specially	Hems									
LE NAME =		ESIGNED -	<u></u>	REVISED REVISED					STATE OF	HIINOIS	··· · · · · · · · · · · · · · · · · ·	l l	OLIET RD (0.3 M			53)	F.A.I RTE		CTION	COUNTY	TOTAL SHEETS
.\pwwork\pwidot\kar		RAWN - HECKED -		REVISED			_	DEPART				1	CHANA	ARY OF QUAN	TITIES		037	o 29Y	′-RS-3	CONTRAC	18



EXISTING TYPICAL SECTION
STA. 25+00 TO STA. 41+35



PROPOSED TYPICAL SECTION STA. 25+00 TO STA. 41+35

LEGEND

- 1) EXISTING P.C.C PAVEMENT, ± 9 "
- (2) EXISTING HOT-MIX ASPHALT OVERLAY, ± 15"
- (3) EXISTING HMA SHOULDER
- 4 EXISTING AGGREGATE SHOULDER
- 5 EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- (6) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- 7) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- (8) PROPOSED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- (9) PROPOSED HMA BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- PROPOSED SAFETY EDGE WHEN HMA SHOULDER < 3'

MIXTURE REQUIREMENTS	
MIXTURE USES	VOIDS
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80	3.5% AT 80 GYR.
POLY. HMA BINDER COURSE, STONE MATRIX ASPHALT, N80	3.5% AT 80 GYR.
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQYD/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 DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

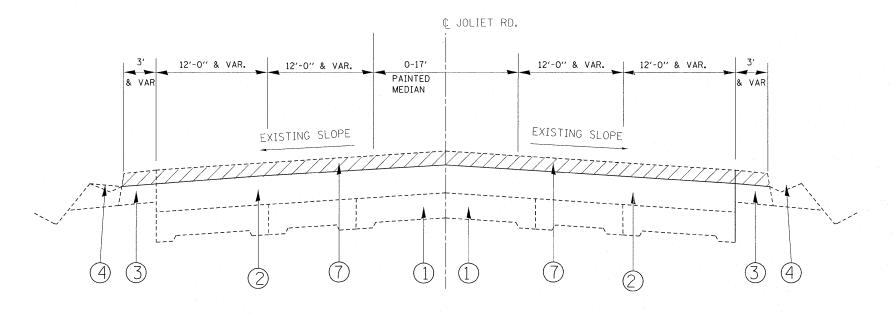
THE CONTRACTOR SHALL MILL BEFORE PATCHING

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	PLOT DATE = 12/8/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	JOLIET RD	(0.3 N	AI. NE OF	BLUFF RD	TO IL 53)
	EXISTING	AND	PROPOSE	D TYPICAL	SECTIONS
SCALE: Scale	SHEET NO.	OF	SHEETS	STA.	TO STA.

						CONTRACT	NO. 60	N69
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	FED. ROA	D DIST. NO.	ILLINOIS	FED.	AID	PROJECT		



EXISTING TYPICAL SECTION
STA. 41+35 TO STA. 70+50

DEPTH S' MAX DEPTH S' MAX DEPTH 30 DEPTH 30 DEPTH 30 EXISTING SLOPE BY AR. 12'-0" & VAR. 3' 3' 3' 5" MAX DEPTH 30 10

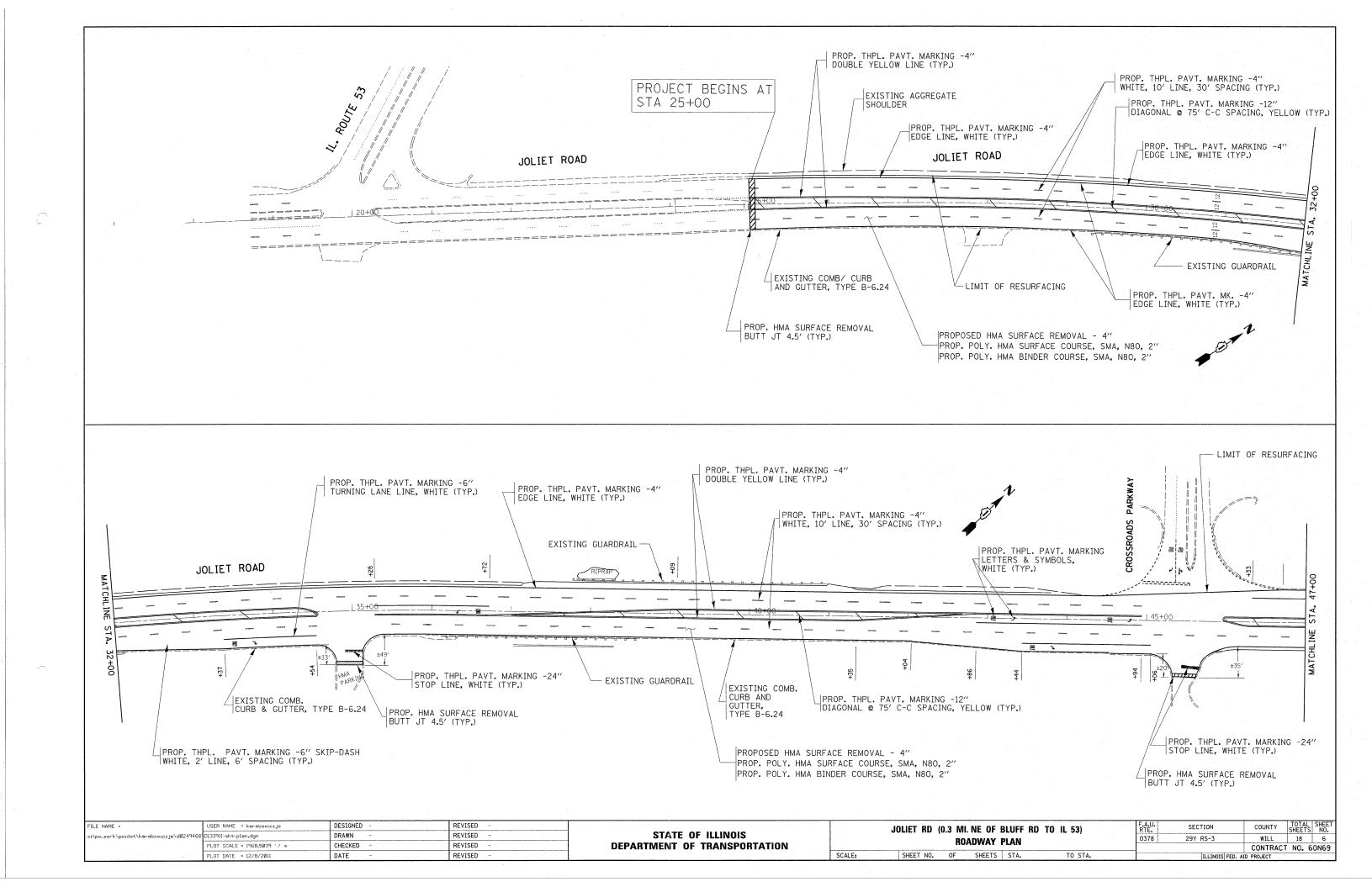
PROPOSED TYPICAL SECTION STA. 41+35 TO STA. 70+50

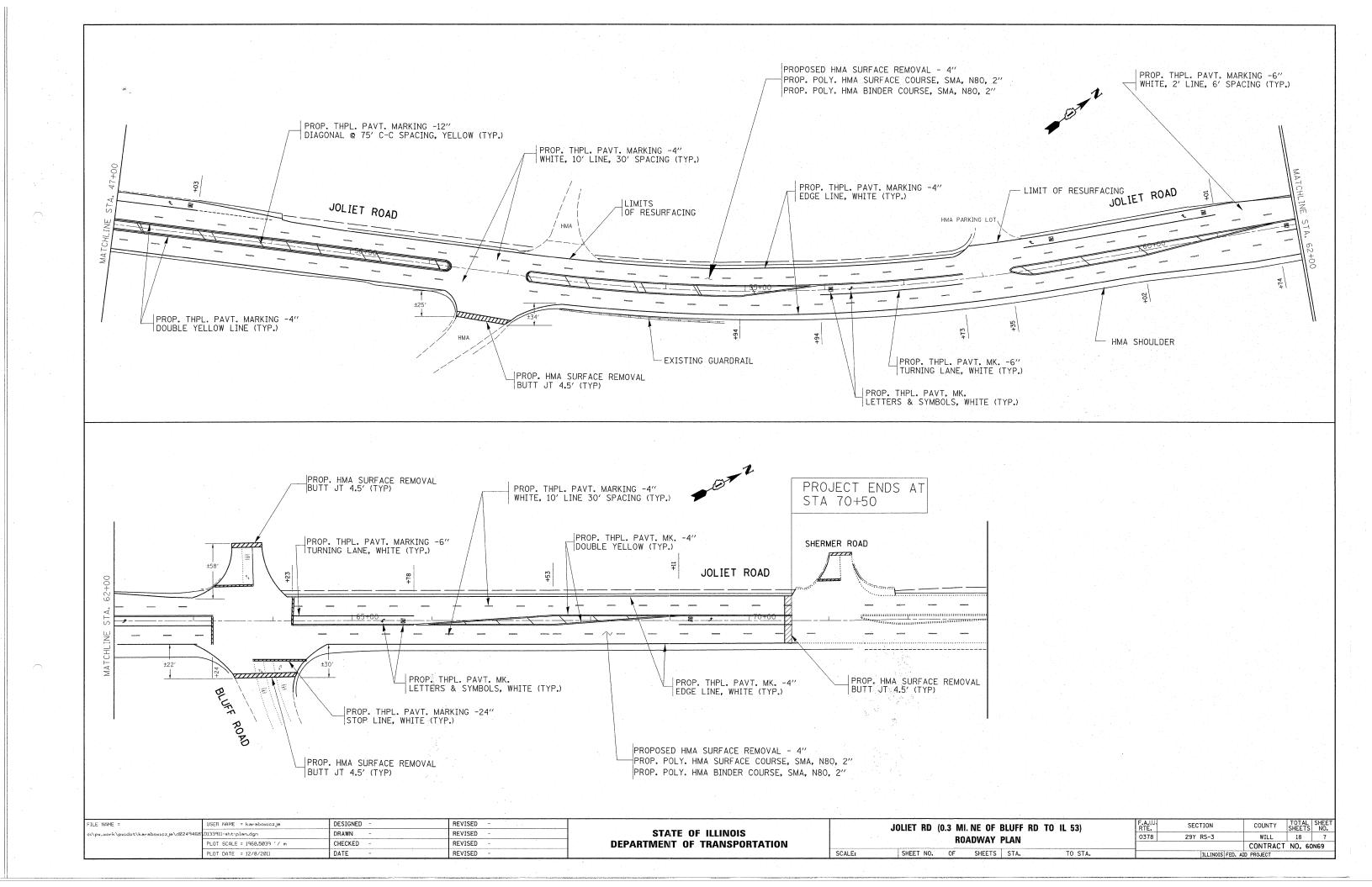
LEGEND

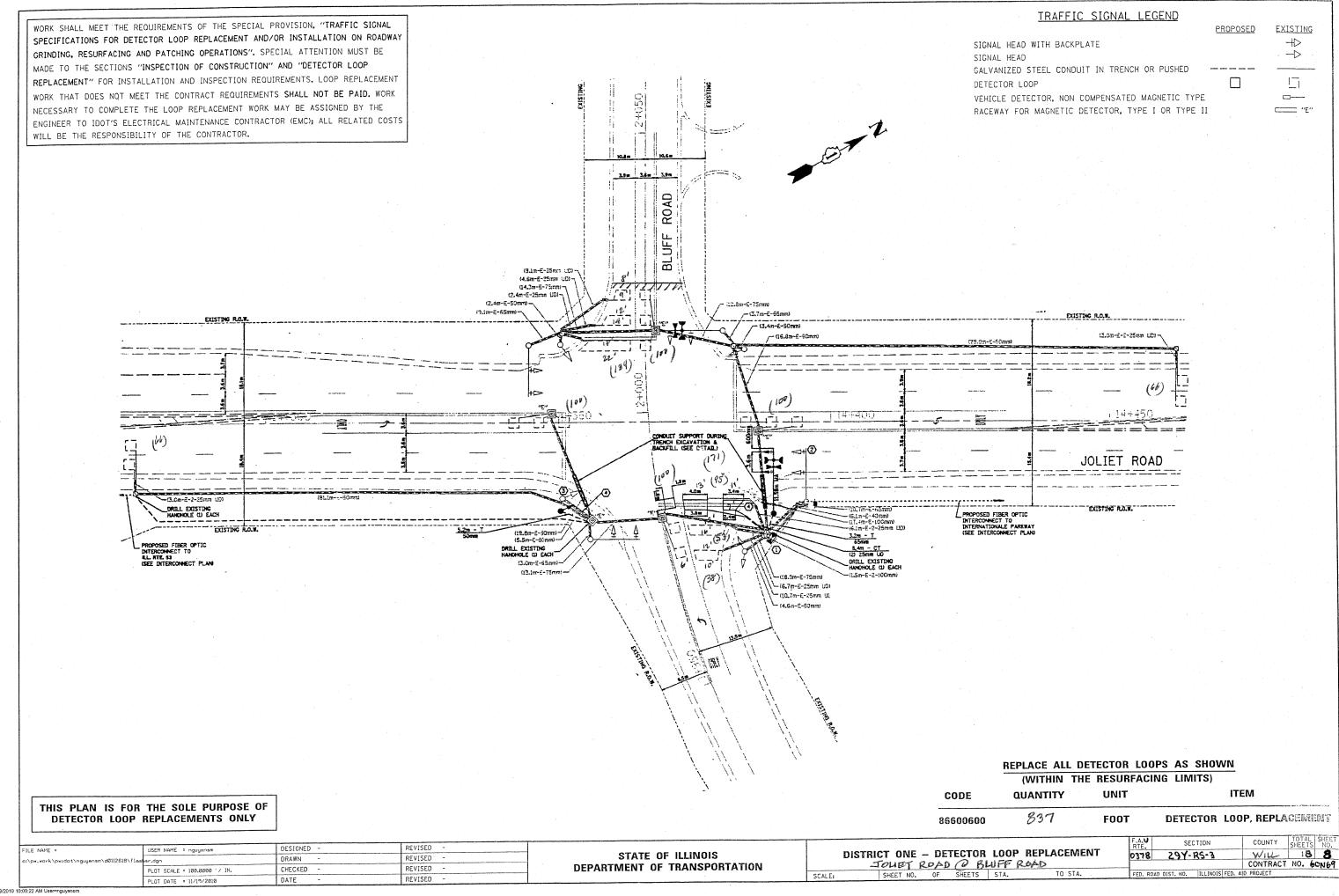
- 1 EXISTING P.C.C PAVEMENT, ± 9"
- 2 EXISTING HOT-MIX ASPHALT OVERLAY, ± 15"
- (3) EXISTING HMA SHOULDER
- 4 EXISTING AGGREGATE SHOULDER
- 5 EXISTING COMB. CONC. CURB & GUTTER, TYPE B-6.24
- 6 PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
 - PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- 8 PROPOSED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- (9) PROPOSED HMA BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- 10 PROPOSED SAFETY EDGE WHEN HMA SHOULDER < 3'

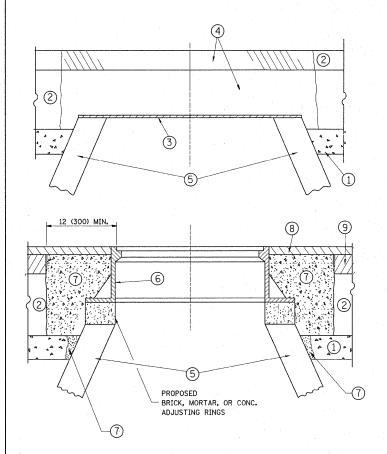
THE CONTRACTOR SHALL MILL BEFORE PATCHING

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	PLOT SCALE = 1998.7539 '/ m	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS	CONTRACT NO. 60N69
	PLOT DATE = 10/25/2011	DATE -	REVISED -		SCALE: Scale SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT









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

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

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

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

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

 B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1*
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- 7 CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- 8 PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX 5 EXISTING STRUCTURE
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

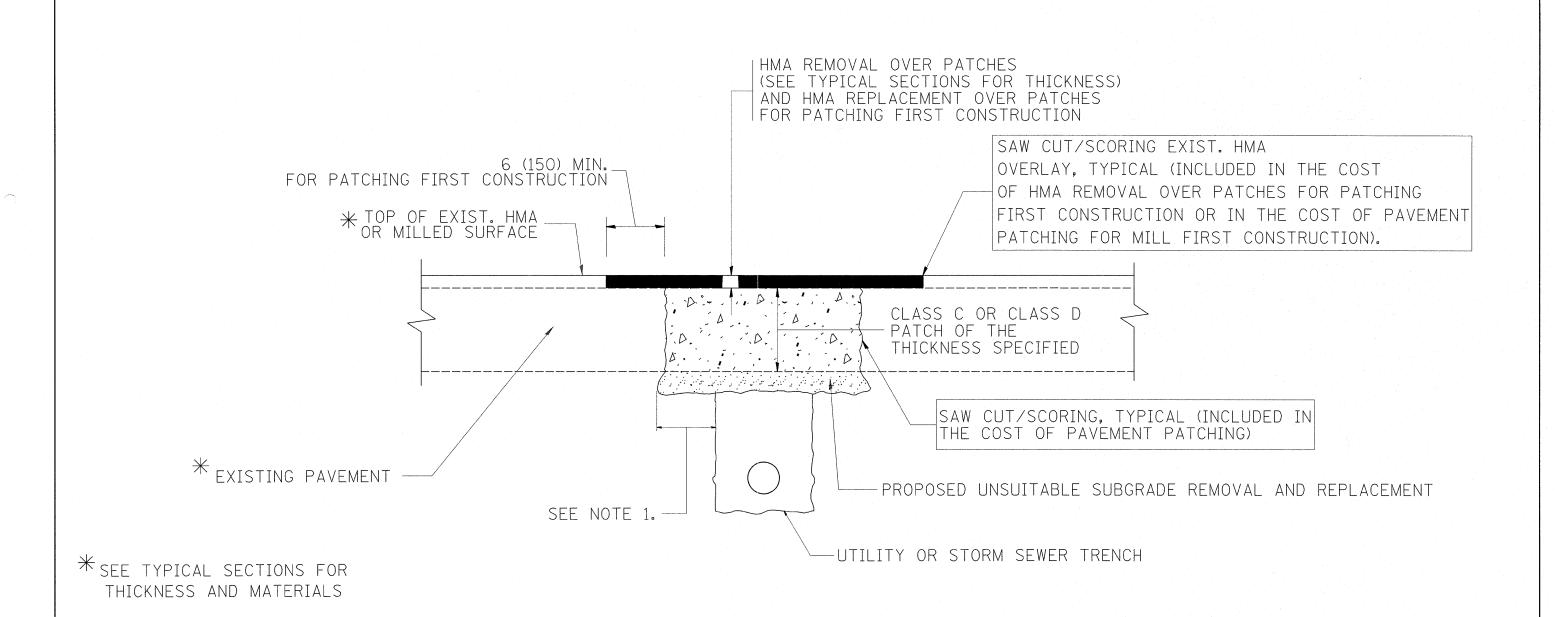
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	PLOT SCALE = 1968.5039 '/ m	CHECKED -	REVISED - R. BORO 03-09-11	DEPAR
	PLOT DATE = 12/9/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11	

STATE OF ILLINOIS ARTMENT OF TRANSPORTATION

		DETAILS FOR	
	FRAMES AND	LIDS ADJUSTMENT	WITH MILLING
ALE: NONE	SHEET NO. 1	OF 1 SHEETS STA	. TO S

TOTAL SHEET SHEETS NO. COUNTY 18 9 WILL CONTRACT NO. 60N69 BD600-03 (BD-8)

FED. ROAD DIST. NO. 1 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)

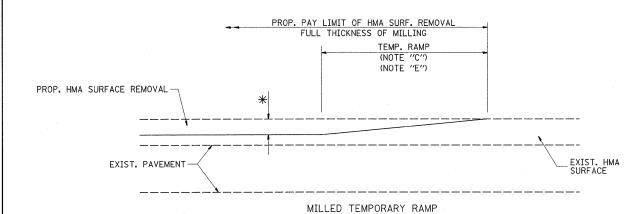
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ 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.

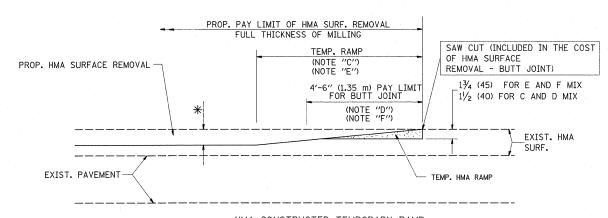
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = karabowiczje	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR			RTE SECTION	COUNTY TOTAL SHEET
or\pw_work\pwidot\karabowiczje\dØ249468	DistStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				0378 29Y-RS-3	WILL 18 10
	PLOT SCALE = 1968.5039 '/ m	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT			BD400-04 (BD-22)	CONTRACT NO. 60N69
	PLOT DATE = 10/24/2011	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

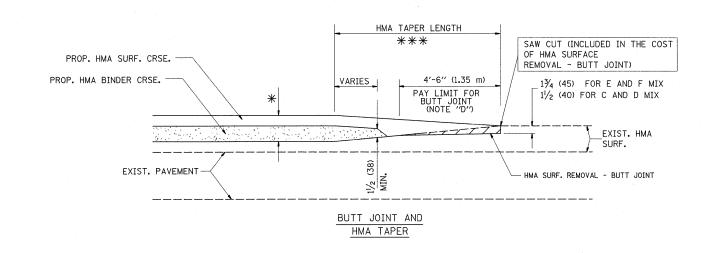
OPTION 1



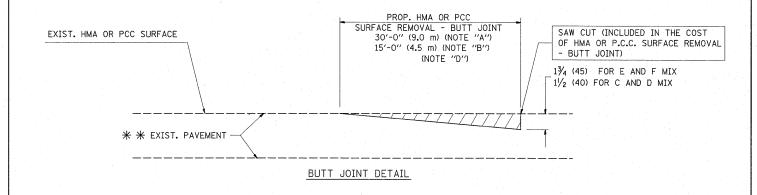
____HMA_CONSTRUCTED_TEMPORARY_RAMP____(FOR_BUTT_JOINT_AND_HMA_TAPER_SEE_DETAIL_BELOW)

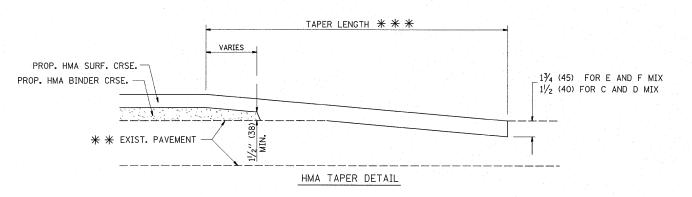
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

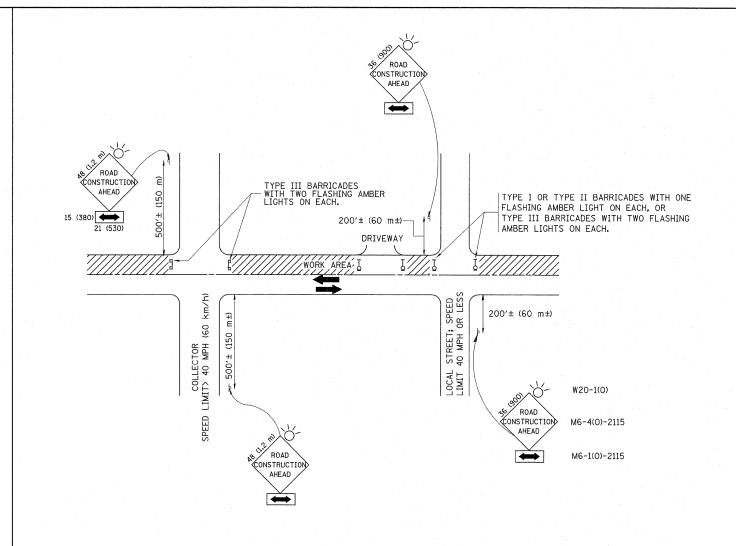
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (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
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 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.

FILE NAME =	USER NAME = karabowiczje	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94		BUTT JOINT AND	F.A.U SECTION	ON COUNTY TOTAL SHEET
c:\pw_work\pwidot\karabowiczje\dØ249468	DistStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		0378 29Y-RS	S-3 WILL 18 11
	PLOT SCALE = 1968.5039 '/ m	CHECKED -	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPORTATION	HMA TAPER DETAILS	BD400-05 BI	
:	PLOT DATE = 10/24/2011	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		LLINOIS FED. AID PROJECT



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG 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:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 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. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

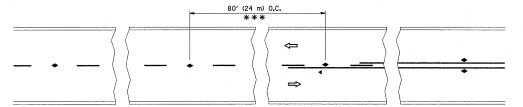
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = karabowiczje	DESIGNED -	-	LHA	REVISED	-	J. OBERLE 10	0-18-95
c:\pw_work\pwidot\karabowiczje\d0249468	DistStd.dgn	DRAWN -	-		REVISED		A. HOUSEH O	3-06-96
	PLOT SCALE = 1968,5039 '/ m	CHECKED -	-		REVISED	-	A. HOUSEH 1	0-15-96
	PLOT DATE = 10/24/2011	DATE -	-	06-89	REVISED	-T.	RAMMACHER	01-06-00

STATI	E OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

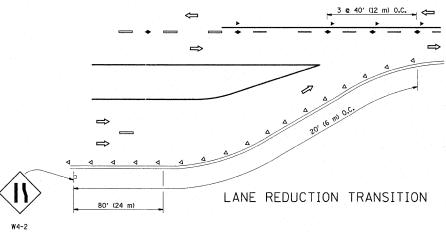
	TRAFFIC SIDE ROADS		DL AND P		
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.

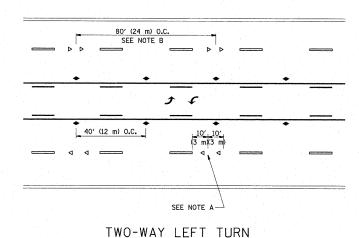
F.A.U RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
0378	29Y-	RS-3		WILL	18	12
	TC-1	0	T	CONTRACT	NO. 6	ON69
FED. R	OAD DIST, NO. 1	ILLINOIS FED.	AID	PROJECT		



*** 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





80' (24 m) O.C.

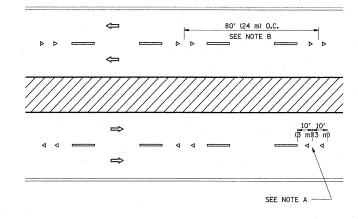
SEE NOTE B

40' (12 m) O.C.

(3 m)(3 m)

SEE NOTE A

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.

LANE MARKER NOTES

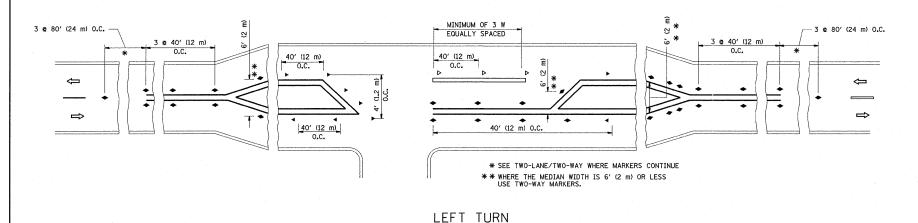
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

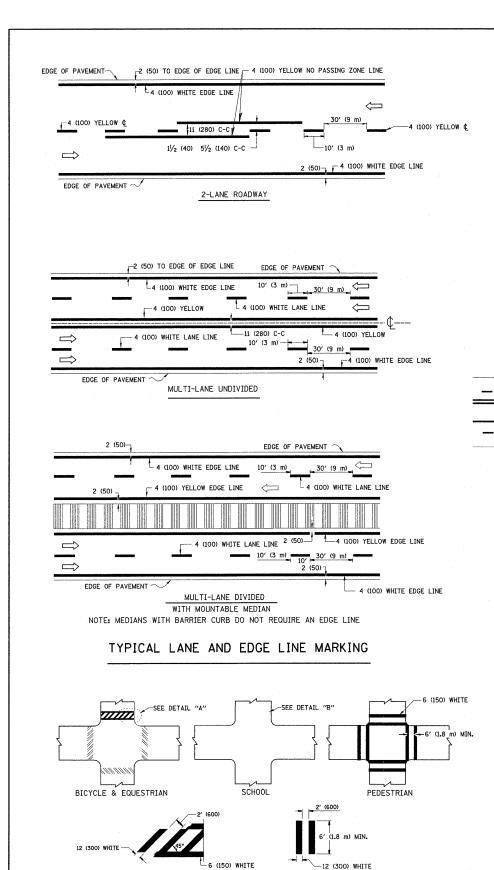
DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 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 SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



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

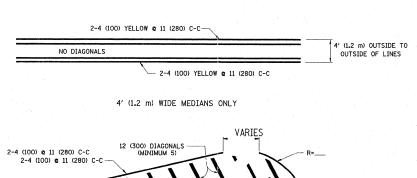
FILE NAME =	USER NAME = karabowiczje	DESIGNED -	REVISED	-T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS	F.A.U RTF.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\karabowiczje\d0249468	DistStd.dgn	DRAWN -	REVISED	-T. RAMMACHER 03-12-99	STATE OF ILLINOIS			0378	29Y-RS-3	WILL 18 13
	PLOT SCALE = 1968.5039 ' / m	CHECKED -	REVISED	T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED	D REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	0010	TC-11	CONTRACT NO. 60N69
	PLOT DATE = 10/24/2011	DATE -	REVISED	- C. JUCIUS 09-09-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	AID PROJECT



TYPICAL CROSSWALK MARKING

DETAIL "B"

DETAIL "A"



VARIES

VARIES

VARIES

VARIES

VARIES

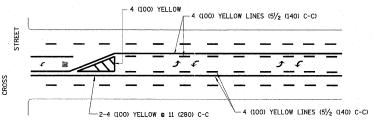
R=

MEDIAN LENGTH

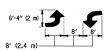
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED

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

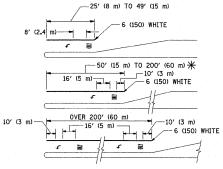


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

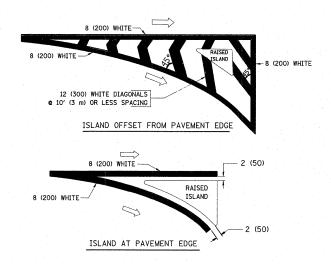


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²))

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



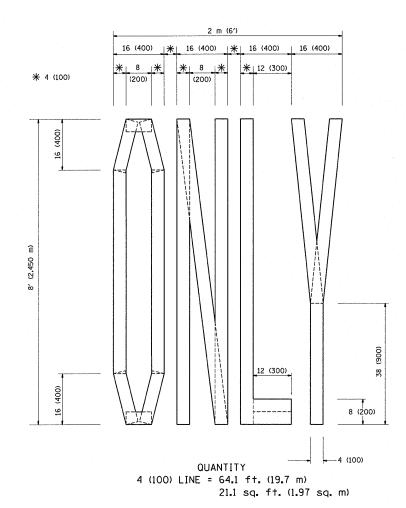
TYPICAL ISLAND MARKING

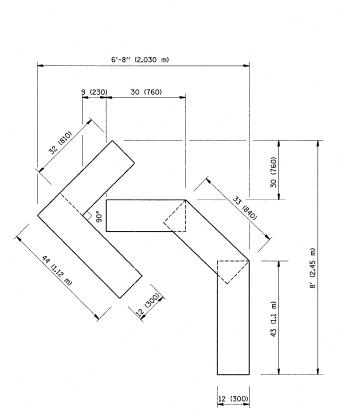
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 0 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	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	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (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' (500) APART 2' (500) 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 m²) EACH 'X'=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) e 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) T0 45MPH (70 km/h) 1150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

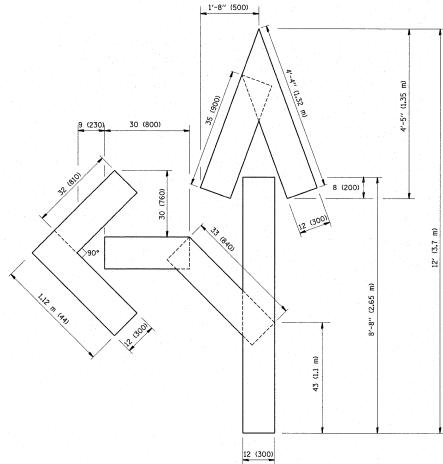
All dimensions are in inches (millimeters) unless otherwise shown.

	COUNTY TOTAL SHE	SECTION	F.A.			REVISED -T. RAMMACHER 10-27-94	O - EVERS	USER NAME = karabowiczje	FILE NAME =
	WILL 18 1	29Y-RS-3	033			REVISED -	-	BistStd.dgn [c:\pw_work\pwidot\karabowiczje\d0249468
CO	CONTRACT NO. 60NE					REVISED	=	PLOT SCALE = 1968.5039 '/ m	
PLOT DATE = 10/24/2011 DATE - 03-19-90 REVISED - SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PRO.			TO STA. FED	SHEET NO. 1 OF 1 SHEETS STA.		REVISED ~	- 03-19-90	PLOT DATE = 10/24/2011	`





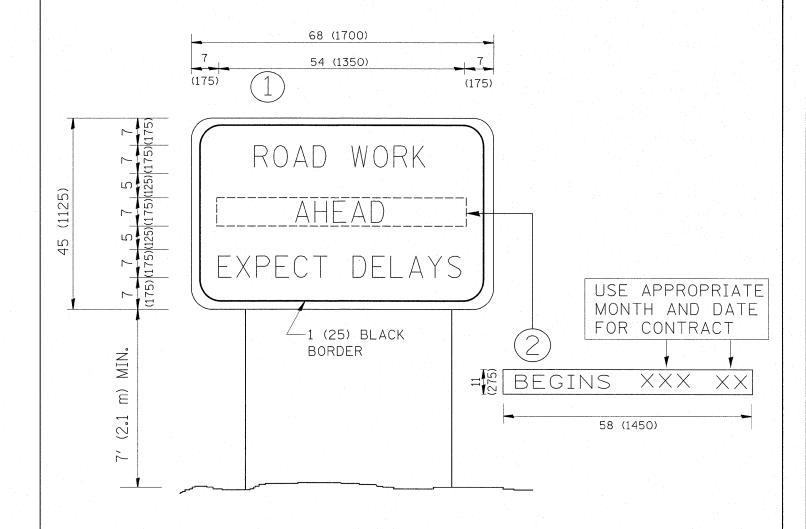
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME ≃	USER NAME = karabowiczje	DESIGNED -	REVISED -T. RAMMACHER 06-05-96			PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.U SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\karabowiczje\d0249468	DistStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS		FOR TRAFFIC STAGING	0378 29Y-RS-3	WILL 18 15
	PLOT SCALE = 1968.5039 '/ m	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FUR TRAFFIC STAGING		TC-16	CONTRACT NO. 60N69
	PLOT DATE = 10/24/2011	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT



NOTES:

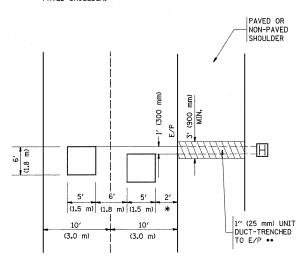
- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START 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.

FILE NAME =	USER NAME = karabowiczje	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.U	SECTION	COUNTY TO	TAL SHEET
c:\pw_work\pwidot\karabowiczje\d0249468	DistStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				0378	29Y-RS-3	WILL 1	18 16
	PLOT SCALE = 1968.5039 '/ m	CHECKED ~	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN	•		TC-22	CONTRACT NO	O. 60N69
	PLOT DATE = 10/24/2011	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD D	IST. NO. 1 ILLINOIS FED		

LOOPS NEXT TO SHOULDERS

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



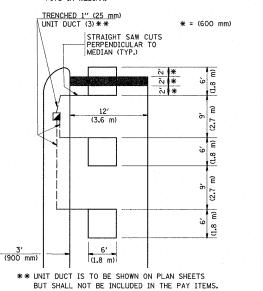
* = (600 mm)

* * 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)

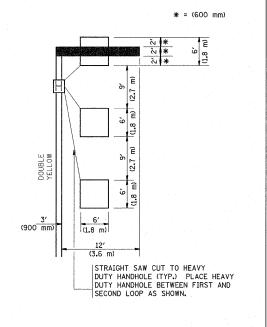
HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

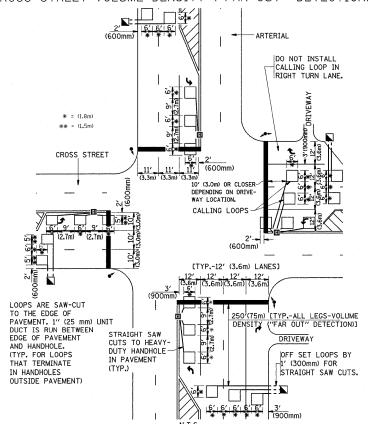


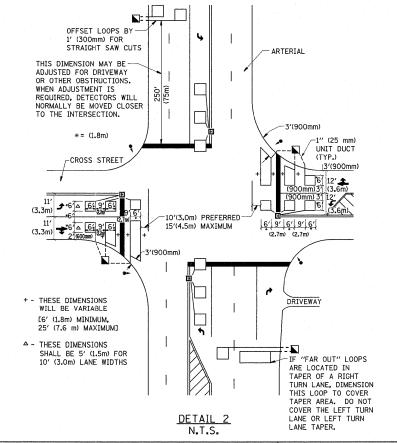
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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

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





NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON $\underline{\mathsf{ALL}}$ 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.

FILE NAME =	USER NAME = karabowiczje	DESIGNED -	REVISED -						
c:\pw_work\pwidot\karabowiczje\d0249468	DıstStd.dgn	DRAWN ~	REVISED -						
	PLOT SCALE = 1968.5039 '/ m	CHECKED - R.K.F.	REVISED -						
	PLOT DATE = 10/24/2011	DATE -	REVISED -						

DETAIL 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT	1 -	DETECTOR L	OOP INSTA	ALLATION	F.A.U RTE.	SEC	
DETA	11 0 1	OR ROADW	AV DECLIDE	ACING	0378	29Y-	
 	IILO I	OIL HUMDW	AT HESUNI	Aciita	TS-		
SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST, NO. 1	

F.A.U RTE.	SECTION							COUNTY	TOTAL SHEETS	SHEET NO.	
0378 29Y-RS-3								WILL	18	17	ı
TS-07								CONTRACT NO. 60N69			
FED. R	ROAD	DIST.	NO.	1	ILLINOIS	FED.	AID	PROJECT			ı

