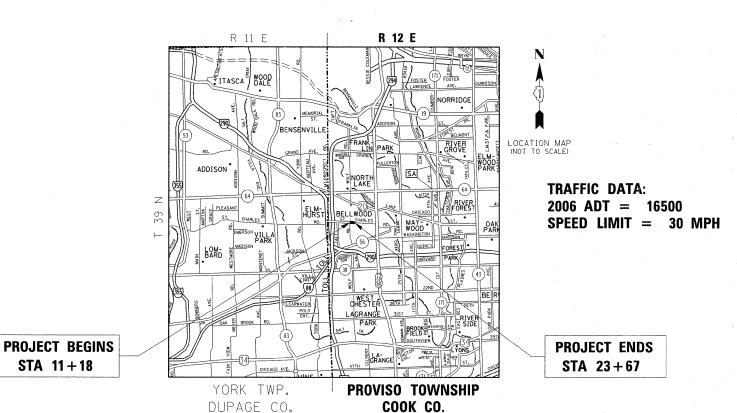
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 1397: ST. CHARLES RD. WOLF RD. TO SPEECHLEY BLVD. SECTION: 134-Y-RS-1



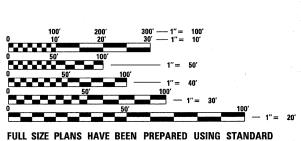
GROSS AND NET LENGTH = 1249 FT. = 0.24 MILES

STA 11+18

RESURFACING

COOK COUNTY

C-91-094-11



FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN VILLAGE OF BERKELEY

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 1-800-892-0123 OR 811

PROJECT ENGINEER: DAN WILGREEN /(847) 705-4240 PROJECT MANAGER: KEN ENG /(847)-705-4247

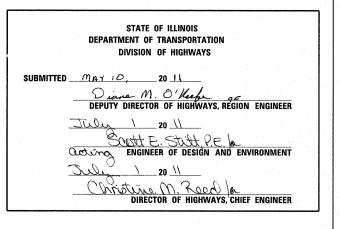
CONTRACT NO. 60M27

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SECTION ILLINOIS CONTRACT NO. 60M27

D-91-094-11





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	EXISTING AND PROPOSED TYPICAL SECTIONS
6	ROADWAY AND PAVEMENT MARKING PLANS
7	DETECTOR LOOP REPLACEMENT PLANS
8	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
9	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
10	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
11	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
12	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
13	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
14	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
15	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
17	ARTERIAL ROAD INFORMATION SIGN (TC-22)
18	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05, SHEET 1 OF 6)
19	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
442201 - <i>03</i>	CLASS C AND D PATCHES
606001 - 04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS < 40 MPH
701606 -07	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701 <i>- 07</i>	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901- <i>01</i>	TRAFFIC CONTROL DEVICES
886001- <i>01</i>	DETECTOR LOOP INSTALLATION
886006- <i>01</i>	TYPICAL LAYOUT FOR DETECTION LOOPS

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND VILLAGE OF BERKELEY.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- 4. 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.
- 5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 7. ALL PAVEMENT PATCHING AND CURB AND GUTTER REMOVAL AND REPLACEMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING
- 9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 10. THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELS TECHNICIAN, AT (708) 597-9800 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 11. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 12. 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.
- 13. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 14. 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.
- 15. 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 SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING
- 16. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 11/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- 17. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE
- 18. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D

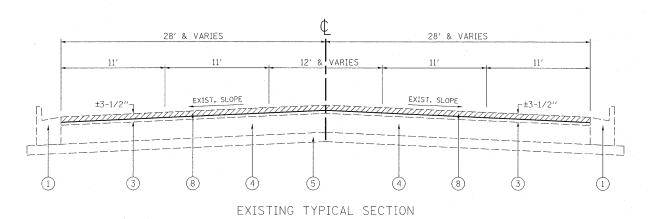
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SCALE:

ST. CHARLES RD. (WOLF RD. TO SPEECHLEY BLV	D.) F.		ON COUNTY	TOTAL SHEETS	SHEET NO.
INDEX OF SHEFTS STATE STANDARDS AND GENERA	NOTES 1.	397 134-Y-I	RS-1 COOK	19	2
HIDEA OF CHELLO, CTATE CTATEDATED AND GENERA	SHEETS, STATE STANDARDS AND GENERAL NOTES 1397 13		CONTRACT	NO. E	OM27
SHEET NO. OF SHEETS STA. TO	STA	T I	LINOIS EED AID DOOLECT		

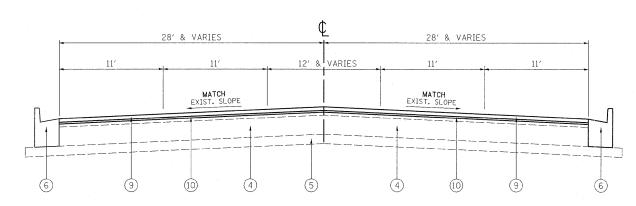
25200110 S0 40600200 B 40600300 A0 40600400 M A1 40600895 C0 40600982 H0 40601005 H0 P 40603340 H0 M	ITEM TOPSOIL FURNISH AND PLACE, 4" SODDING, SALT TOLERANT BITUMINOUS MATERIALS (PRIME COAT) AGGREGATE (PRIME COAT) MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS CONSTRUCTING TEST STRIP HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 PROTECTIVE COAT	UNIT SO YD SO YD TON TON EACH SO YD TON TON	100/ STATE TOTAL OUANTITIES 25 25 8 40 15 2 111	25 25 8 40 15 2						*78000200	ITEM THERMOPLASTIC PAVEMENT MARKING - LINE 4" THERMOPLASTIC PAVEMENT MARKING	UNIT FOOT FOOT	TOTAL QUANTITIES 6020 320						
25200110 S0 40600200 B 40600300 A0 40600400 M A0 40600895 C0 40600982 H0 40601005 H0 P 40603340 H0	SODDING, SALT TOLERANT BITUMINOUS MATERIALS (PRIME COAT) AGGREGATE (PRIME COAT) MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS CONSTRUCTING TEST STRIP HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	SO YD TON TON TON EACH SO YD TON	25 8 40 15 2	25 8 40 15 2							- LINE 4" THERMOPLASTIC PAVEMENT MARKING								
40600200 B 40600300 A(40600400 M AN 40600895 C(40600982 H(40601005 H(M M M	AGGREGATE (PRIME COAT) MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS CONSTRUCTING TEST STRIP HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON TON TON EACH SO YD TON	8 40 15 2 111	8 40 15 2 111						*78000400	THERMOPLASTIC PAVEMENT MARKING	FOOT	320	320					
40600300 A0 40600400 MA 40600895 C0 40600982 H0 40601005 H0 P/ 40603340 H0 M	AGGREGATE (PRIME COAT) MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS CONSTRUCTING TEST STRIP HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON TON EACH SO YD TON	40 15 2 111	15 2 111									3.0						
40600400 MAI 40600895 CC 40600982 HC 40601005 HC P/ 40603340 HC	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS CONSTRUCTING TEST STRIP HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON EACH SO YD TON	15 2 111	15 2 111						ł	- LINE 6"	·	1		1				
40600895 CC 40600982 HC 40601005 HC P/ 40603340 HC	AND FLANGEWAYS CONSTRUCTING TEST STRIP HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	EACH SO YD TON	2	2						*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	45	45			1		
40600982 HG 40601005 HG P/ 40603340 HG M	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	SO YD	111	111			j		·	*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	39	39					
40601005 HG P/ 40603340 HG M	JOINT HOT-MIX ASPHALT REPLACEMENT OVER PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1							*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	115	115					
40603340 HG	PATCHES HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70		104	104					·	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	103	103					
40603340 HG	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	- 1	104				-		*88600600	DETECTOR LOOP REPLACEMENT	FOOT	66	66					
42001300 PF	PROTECTIVE COAT	1	827	827						X4060826		TON	332	332					
		SO YD	34	34						X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	15	15					
44000155 H	HOT-MIX ASPHALT SURFACE REMOVAL, 11/2"	SO YD	1812	1812			·			Z0004562	(SPECIAL) COMBINATION CONCRETE CURB AND GUTTER	FOOT	150	150					
44000158 HG	HOT-MIX ASPHALT SURFACE REMOVAL, 21/4	SO YD	8028	8028			:		-		REMOVAL AND REPLACEMENT								
44002214 H	HOT-MIX ASPHALT REMOVAL OVER PATCHES,	SO YD	529	529						Z0018500 Z0030850	DRAINAGE STRUCTURES TO BE CLEANED TEMPORARY INFORMATION SIGNING	EACH SO FT	10 52	10 52				era e	
3	3 1/2"													1.5					
44201741 CI	CLASS D PATCHES, TYPE II. 8 INCH	SO YD	170	170															
44201745 CI	CLASS D PATCHES, TYPE III, 8 INCH	SO YD	110	110															
44201747 CI	CLASS D PATCHES, TYPE IV, 8 INCH	SO YD	180	180	-				-	:									
60300105 FF	FRAMES AND GRATES TO BE ADJUSTED	EACH	10	10		-				7									
67000400 EI	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	6	6					*-	-									
67100100 MG	MOBILIZATION	L SUM	1	1															
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1															
	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	. 1	1															
70300100 Si	SHORT TERM PAVEMENT MARKING	FOOT	2570	2570															
	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	37	37															
	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6020	6020					e de la companya de		*SPECIALTY ITEMS		*						
1	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	320	320				·	-										
	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	45	45															
l l	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	40	40															
70301000 WG	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	860	860		Tarabana da la carabana da la caraba													
	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	37	37															
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ST. CHARLES RD.



STA. 11+18 TO STA. 14+34

ST. CHARLES RD.



PROPOSED TYPICAL SECTION
STA. 11+18 TO STA. 14+34

LEGEND

- 1) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MODIFIED)
- (2) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- (3) EXISTING HMA SURFACE COURSE (±) 3-1/2"
- (4) EXISTING PORTLAND CEMENT CONCRETE BASE COURSE (±) 8"
- (5) EXISTING SUB-BASE GRANULAR MATERIAL (±) 4"
- (6) PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)
- (7) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1-1/2"
- (8) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2-1/4"
- (9) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1-1/2"
- (10) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 3/4"

NOTES:

A) THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

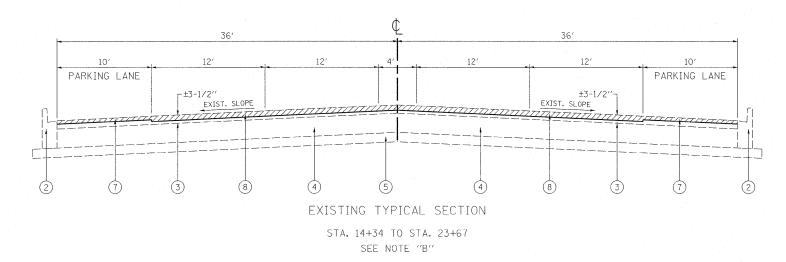
	HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes
ROADWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5 mm)	4% @ 70 GYR
ROADWAT	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% ⊚ 50 GYR
PATCHES	CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR
FAICHES	HMA REPLACMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES IS 112 LBS/SQYD/IN.

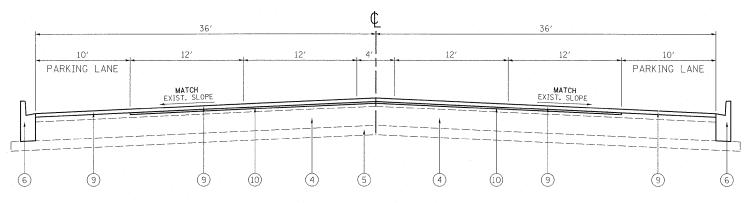
NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22"
AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS
MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME =	USER NAME = VelichkovVV	DESIGNED -	REVISED -			ST CHARLES R	n /w/	NE BD	TO SDEE	CHIEV BIVD \	F.A.U.	SECTION	COUNTY	TOTAL	SHEET
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i	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				1557	134 (1/3 1		CT NO. 6	60M27			
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ST. CHARLES RD.



ST. CHARLES RD.



PROPOSED TYPICAL SECTION

STA. 14+34 TO 23+67 SEE NOTE "B"

LEGEND

- 1) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (MODIFIED)
- (2) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- (3) EXISTING HMA SURFACE COURSE (±) 3-1/2"
- (4) EXISTING PORTLAND CEMENT CONCRETE BASE COURSE (±) 8"
- (5) EXISTING SUB-BASE GRANULAR MATERIAL (±) 4"
- (6) PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)
- (7) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1-1/2"
- (8) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2-1/4"
- (9) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 1-1/2"
- (10) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 3/4"

NOTES:

- A) THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.
- B) PARKING LANES STA. 14+34 RT TO STA. 23+67 RT STA. 13+32 LT TO STA. 23+45 LT

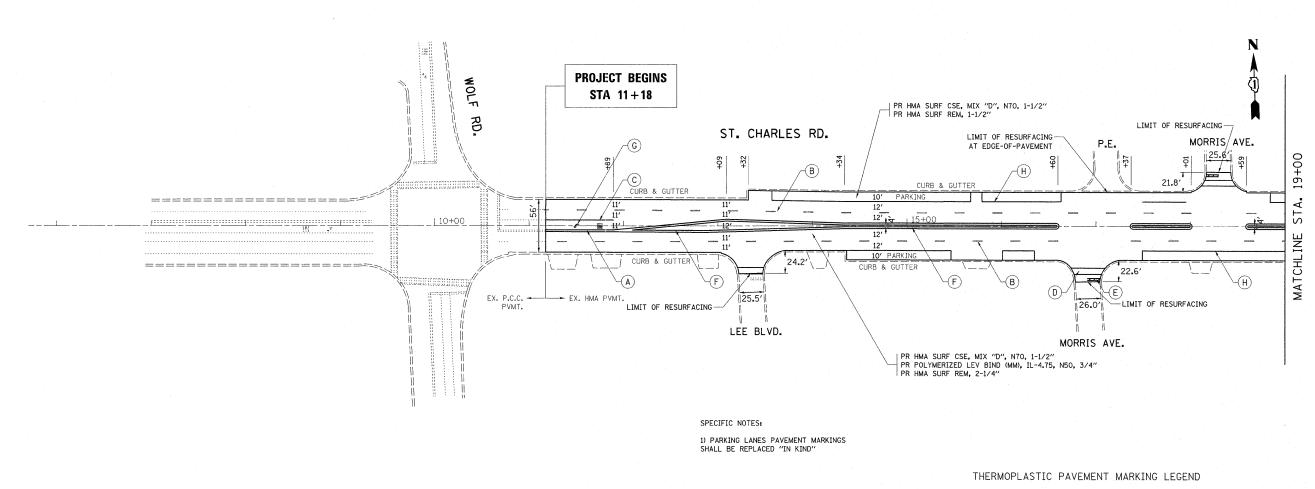
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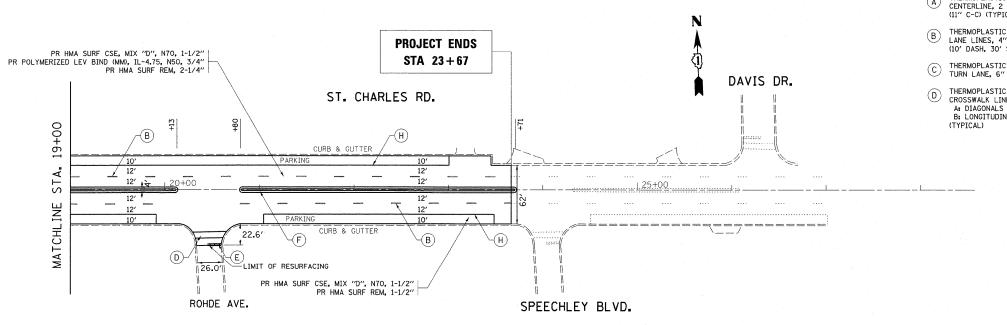
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

ST. CHARLES RD. (WOLF RD. TO SPEECHLEY BLVD.)
EXISTING AND PROPOSED TYPICAL SECTIONS

| SHEET NO. OF SHEETS | STA. TO STA.





- THERMOPLASTIC PAVEMENT MARKING CENTERLINE, 2 & 4" SOLID YELLOW (11" C-C) (TYPICAL)
- THERMOPLASTIC PAVEMENT MARKING (10' DASH, 30' SKIP) (TYPICAL)
- C THERMOPLASTIC PAVEMENT MARKING TURN LANE, 6" SOLID WHITE, (TYPICAL)
- THERMOPLASTIC PAVEMENT MARKING CROSSWALK LINE (PEDESTRIAN) 2 @ 6" SOLID WHITE
 A: DIAGONALS 12" @ 45° SOLID WHITE
 B: LONGITUDINAL BARS 12" @ 90° SOLID WHITE
- E THERMOPLASTIC PAVEMENT MARKING STOP LINE, 24" SOLID WHITE, (TYPICAL)
- THERMOPLASTIC PAVEMENT MARKING PAINTED MEDIAN, 2 & 4" WITH 12" DIAGONALS & 45° (75' C-C FOR 30 MPH TO 45 MPH), SOLID YELLOW (TYPICAL)

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

 NO DIAGONALS USED FOR 4' WIDE MEDIANS
- G THERMOPLASTIC PAYEMEN! MAINTEN LETTERS & SYMBOLS, WHITE (TYPICAL) THERMOPLASTIC PAVEMENT MARKING
 - H THERMOPLASTIC PAVEMENT MARKING PARKING LANE, 4" SOLID WHITE (TYPICAL)

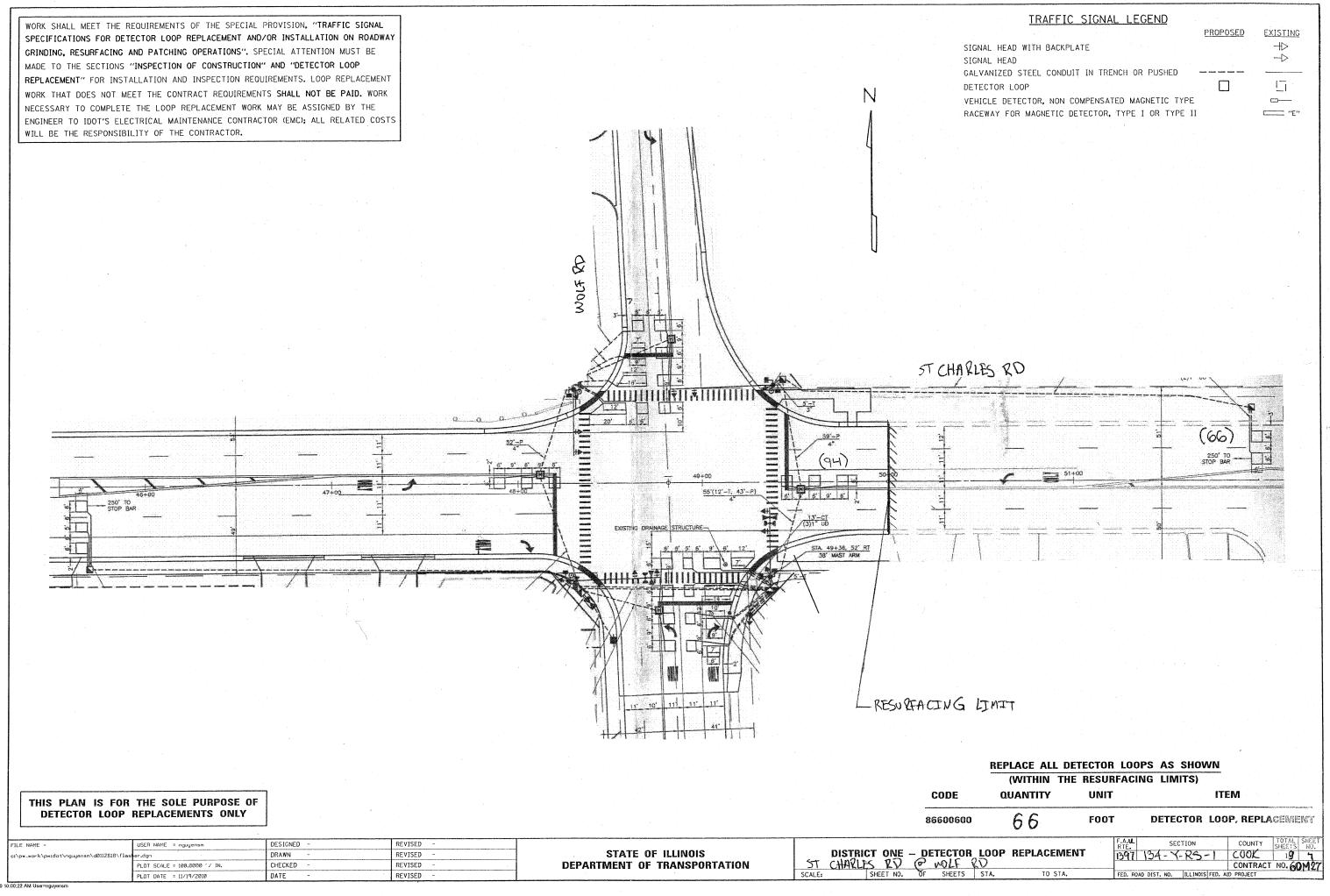
GENERAL NOTES:

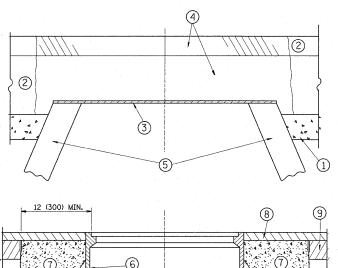
1) LIMIT OF RESURFACING ON SIDE-STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

2) ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)" STANDARD DETAIL.

3) ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)" STANDARD DETAIL.

FILE NAME =	USER NAME = VelichkovVV	DESIGNED -	REVISED -		1 91	r. Charles Rd. (Wolf Rd. To Speechley Blvd.)	F.A.U	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\velichkovvv\dØ248	1\D109411-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	1	ROADWAY AND PAVEMENT MARKING PLAN	1397	134-Y-RS-1	СООК	19 6
	PLOT SCALE = 50.0000 '/ IN.	CHECKED ~	REVISED -	DEPARTMENT OF TRANSPORTATION	RUADWAY AND PAVENIENT MARKING PLAN				CONTRAC	T NO. 60M27
	PLOT DATÉ = 5/12/2011	DATE -	REVISED ~		SCALE:	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	





-(6) 1. ** 4 PROPOSED BRICK, MORTAR, OR CONC. ADJUSTING RINGS

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 11/2 (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.

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
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (5) EXISTING STRUCTURE
- 8 PROPOSED HMA SURFACE COURSE
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

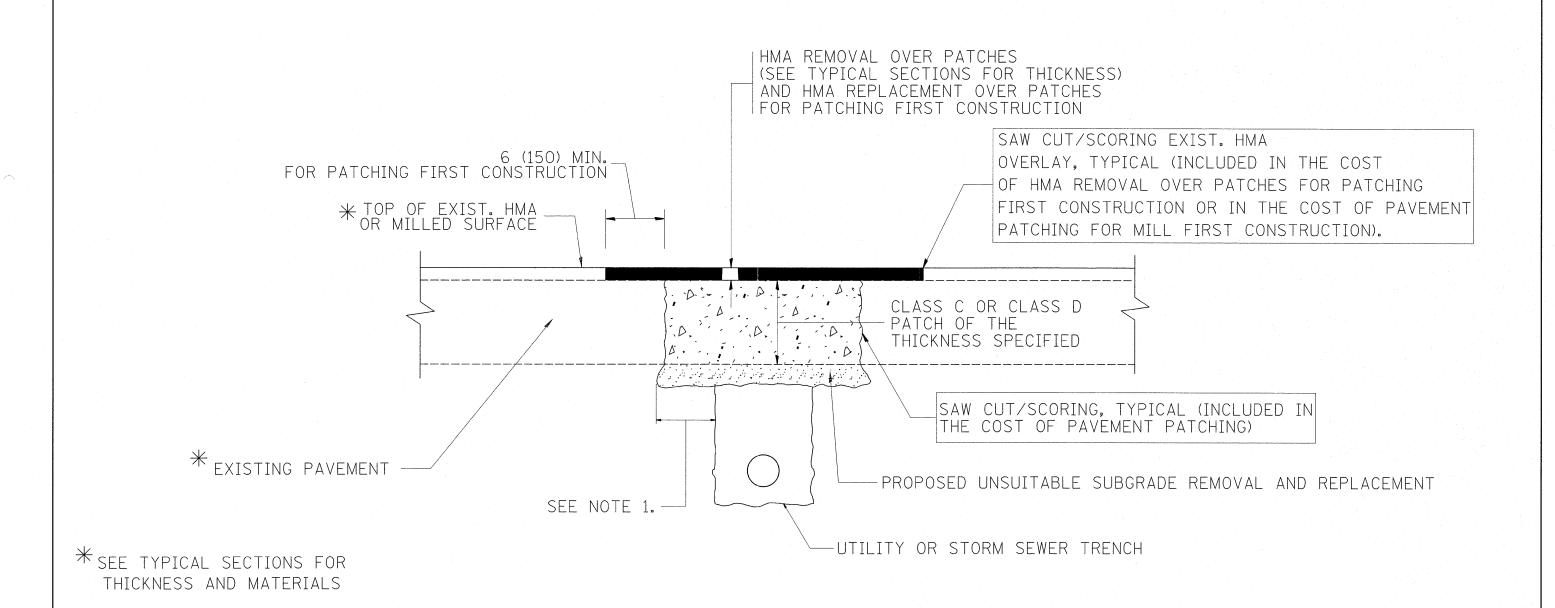
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = VelichkovVV	DESIGNED - R. SHAH	REVISED	- A. ABBAS 03-21-97
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED	R. BORO 01-01-07
	PLOT DATE = 5/11/2011	DATE - 10-25-94	REVISED	- R. BORO 03-09-11

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DETAILS FOR											
	FRAMES	AND	LIDS	ADJUSTM	ENT WITH	MILLING					
SCALE: NONE	SHEET N	10. 1	OF 1	SHEETS	STA.	TO	STA.				

COUNTY TOTAL SHEET NO. SECTION BD600-03 (BD-8) CONTRACT NO. 60M27 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)

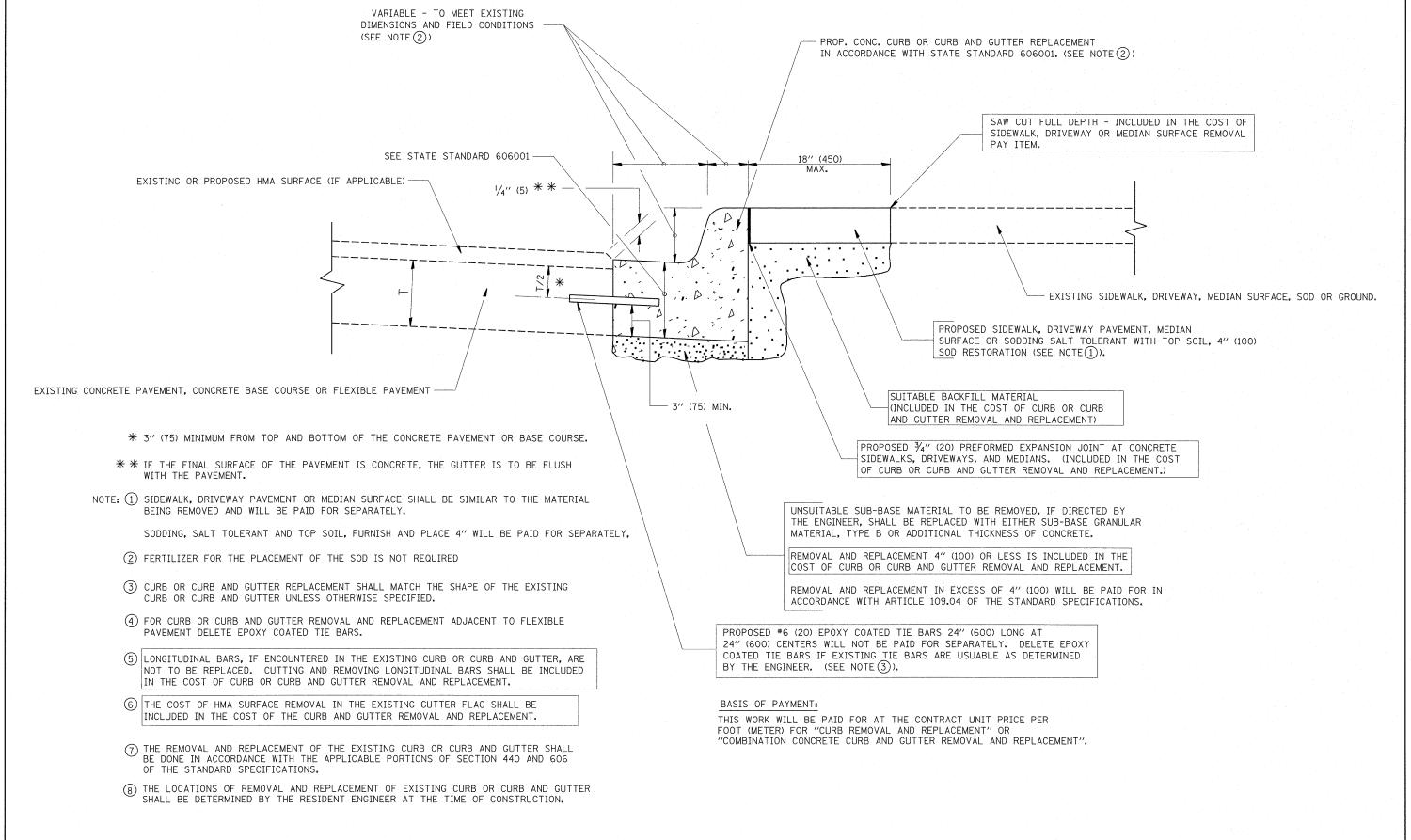
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 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.

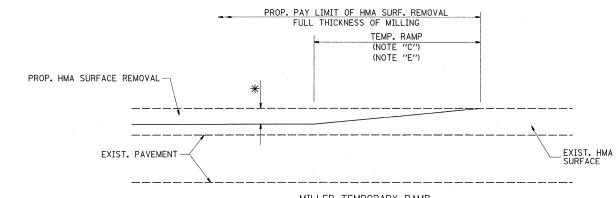
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED ~	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60M27
1 '	PLOT DATE = 5/11/2011	DATE ~ 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		AID PROJECT



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

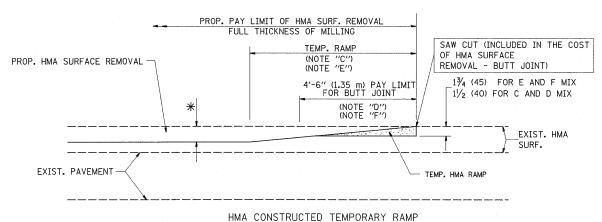
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	PLOT DATE = 5/11/2011	DATE - 03-11-94	REVISED ~ R. BORO 12-15-09	SO	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

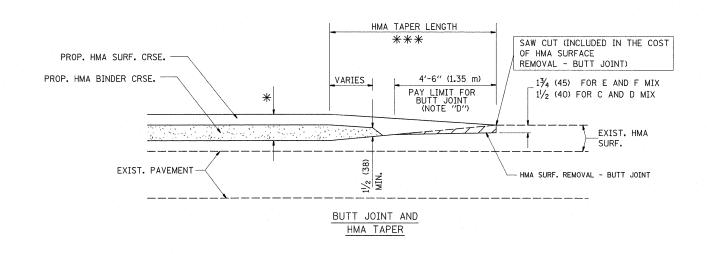
OPTION 1



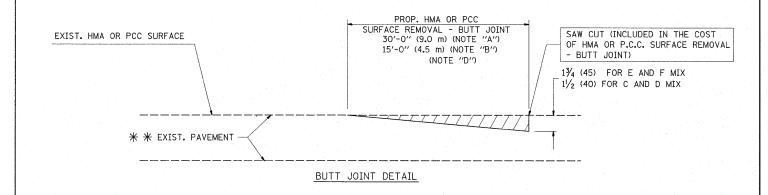
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

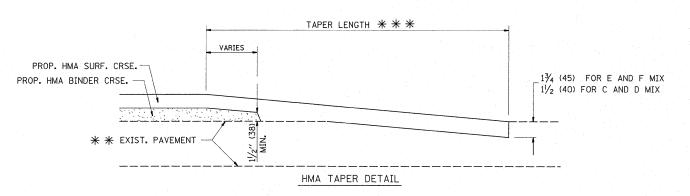
OPTION 2

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'-O" (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:

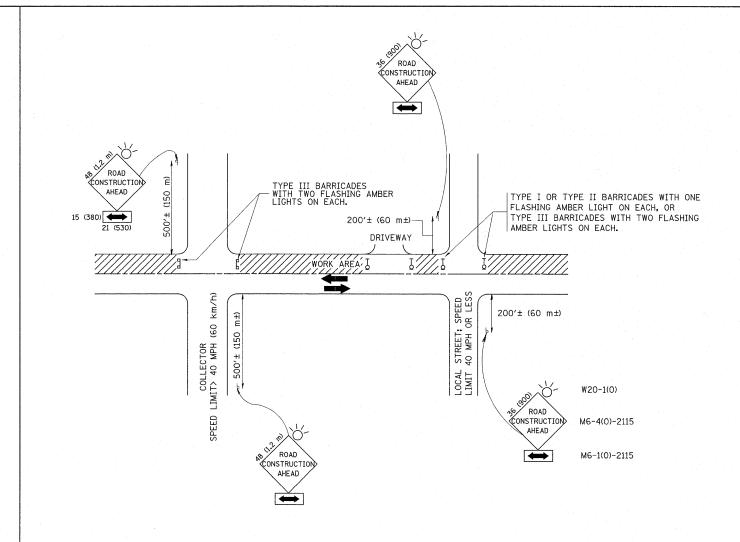
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

FILE NAME =	USER NAME = VelichkovVV	DESIGNED -	-	M. DE YONG	REVISED	-	R. SHAH 10-25-94
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	PLOT DATE = 5/11/2011	DATE -	-	06-13-90	REVISED	~	R. BORO 01-01-07

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	BUTT JOINT AND		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	HMA TAPER DETAILS		1397	134-Y-RS-1	соок	19	11
				BD400-05 BD32	CONTRACT	NO. 6	OM27
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D 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:
- O) 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.

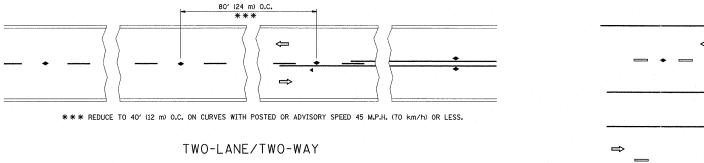
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

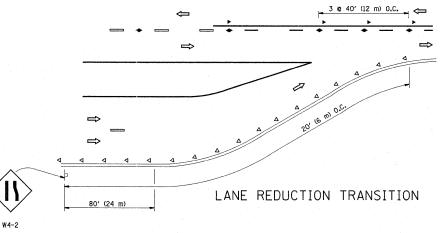
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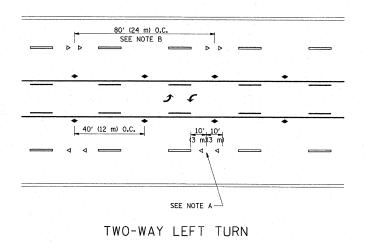
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	PLOT DATE = 5/11/2011	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

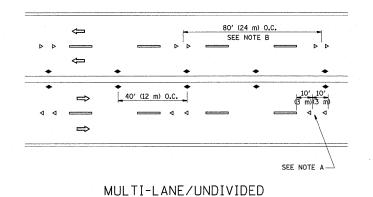
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

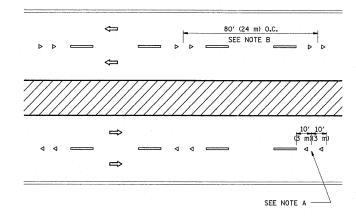
	TRAFFIC	CONTROL	AND PROTEC	TION FOR
	SIDE ROAD	S, INTERS	ECTIONS, AND	DRIVEWAYS
SCALE: NONE	SHEET NO. 1	OF 1 5	SHEETS STA.	TO STA.











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 (₩/O)
- ◆ TWO-WAY AMBER MARKER

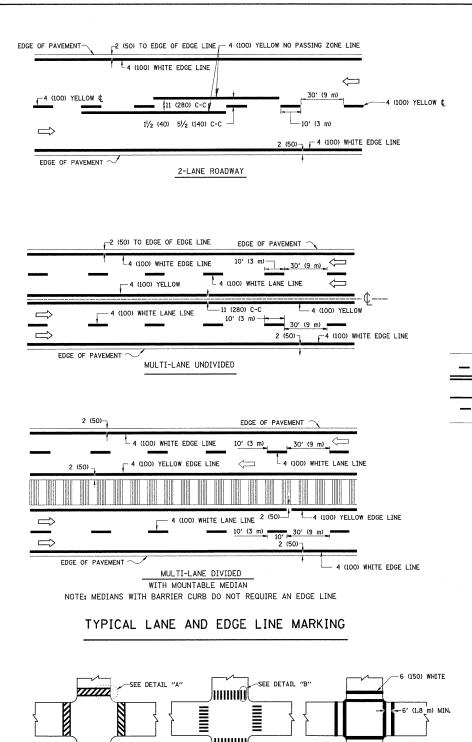
DESIGN NOTES

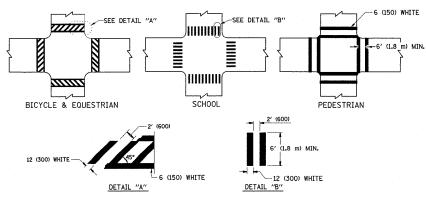
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD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

LEFT TURN

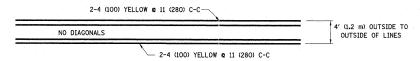
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = VelichkovVV	DESIGNED -	REVISED -T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS	F.A.U. SECTION	COUNTY TOTAL SHEET
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	TC-11	CONTRACT NO. 60M27
	PLOT DATE = 5/11/2011	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.	

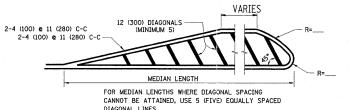




TYPICAL CROSSWALK MARKING

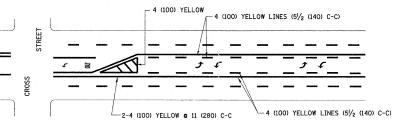


4' (1.2 m) WIDE MEDIANS ONLY

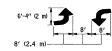


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

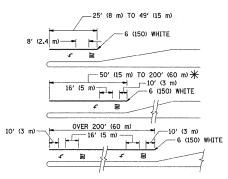


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

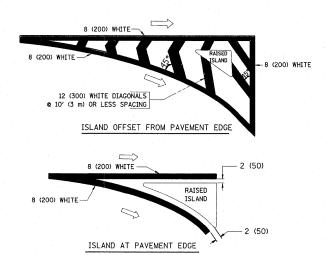


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \footnotemark AREA = 15.6 SQ. FT. (1.5 m²) \footnotemark AREA = 20.8 SQ. FT. (1.9 m²)

* 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 Q 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 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	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) T0 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

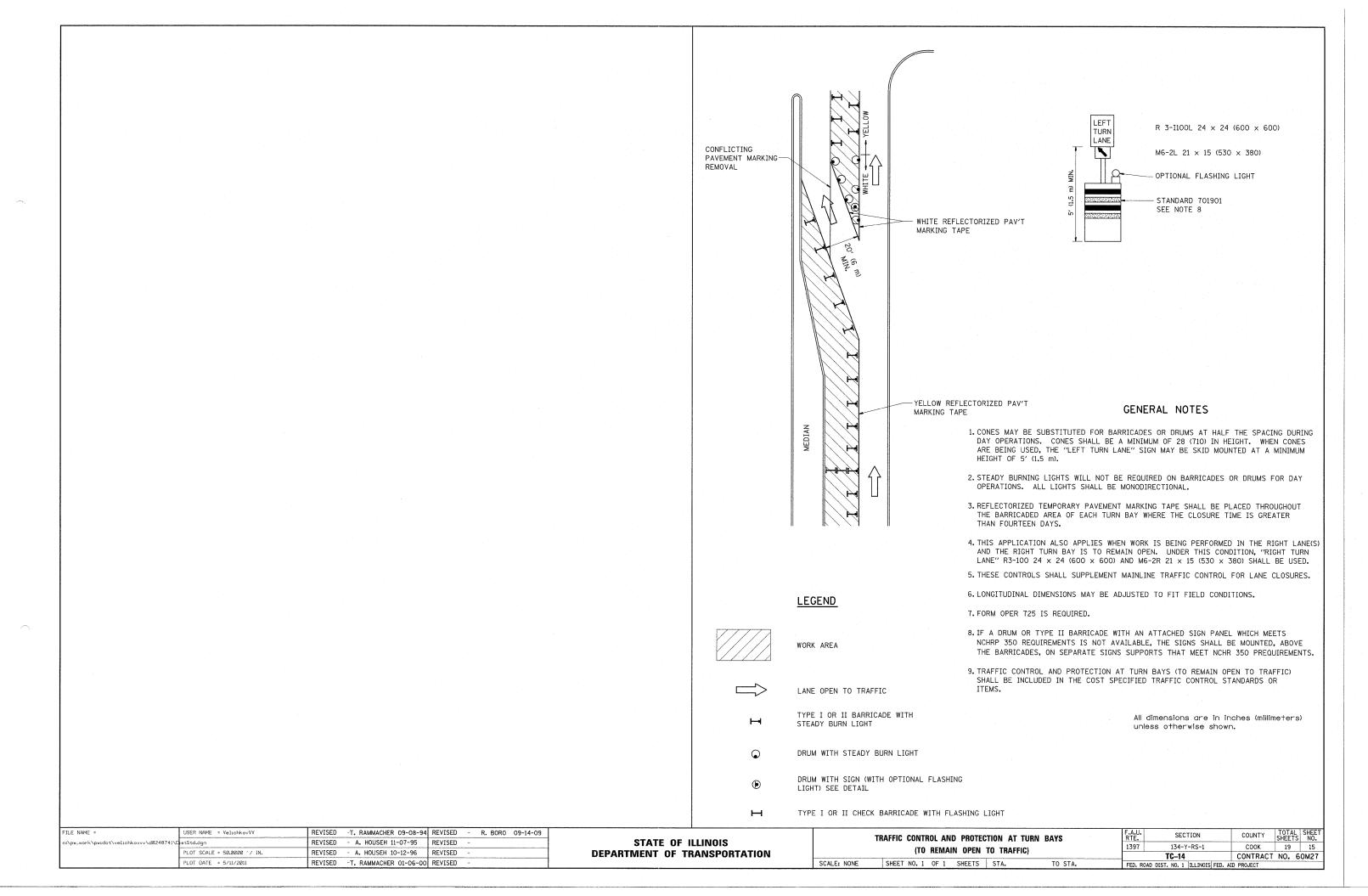
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

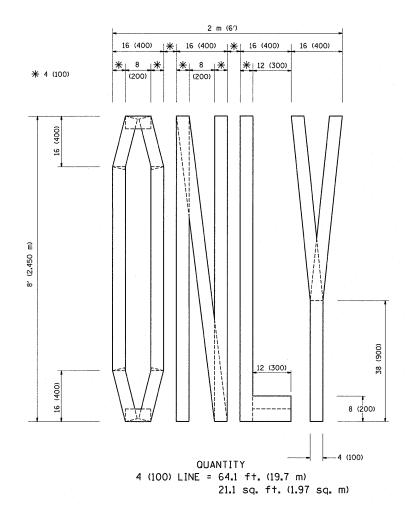
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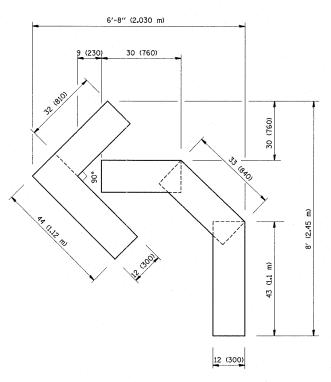
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c:\pw_work\pwidot\velichkovvv\d0248741\E	lstStd.dgn	DRAWN	-		REVISED	-c. JUCIUS	09-09-09
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-		REVISED	_	
	PLOT DATE = 5/11/2011	DATE	-	03-19-90	REVISED	**	

STATE	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

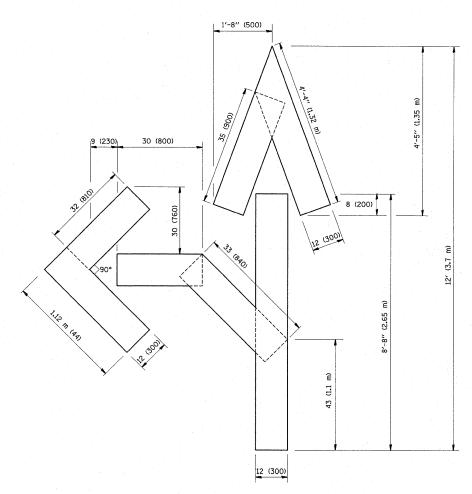
	DISTRICT ONE							F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL PAVEMENT MARKINGS				MADVINICS			1397	134-Y-RS-1	соок	19	14
ļ	TITICAL PAVEMENT MARKINGS							TC-13	CONTRACT	NO. 6	50M27	
	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT											







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



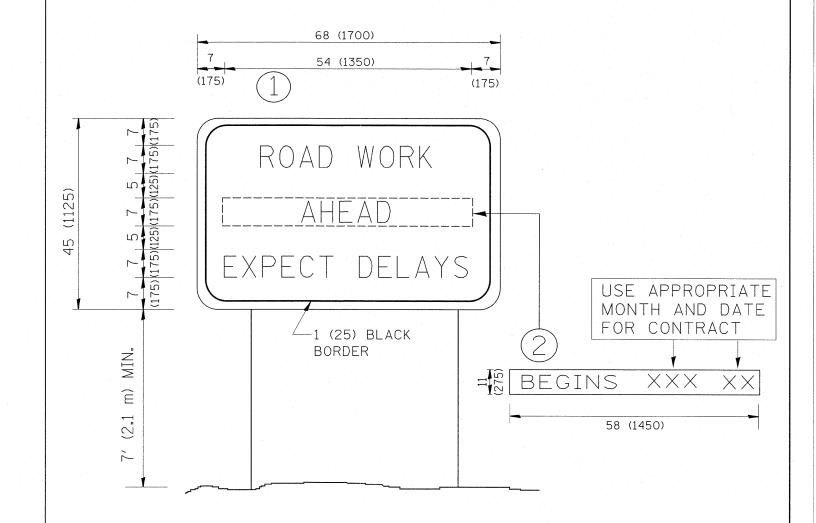
OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = VelichkovVV	DESIGNED -	REVISED	-T. RAMMACHER 06-05-96
c:\pw_work\pwidot\velichkovvv\d0248741\D	ıstStd.dgn	DRAWN -	REVISED	-T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER 03-02-98
	PLOT DATE = 5/11/2011	DATE - 09-18-94	REVISED	~ E. GOMEZ 08-28-00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	PAVEMENT	MARKI	NG LETTE	RS AND	SYMBOLS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FOR TRAFFIC STAGING							134-Y-RS-1	соок	19	16
							TC-16 CONTRACT NO.			
 SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. R	OAD 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.

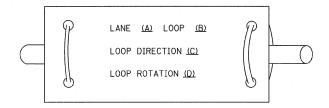
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = VelichkovVV	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.U.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\velichkovvv\dØ248741\[lstStd.dgn	DRAWN ~	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				1397	134-Y-RS-1	соок	19 17
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN			TC-22		T NO. 60M27	
	PLOT DATE = 5/11/2011	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIS		ED. AID PROJECT	

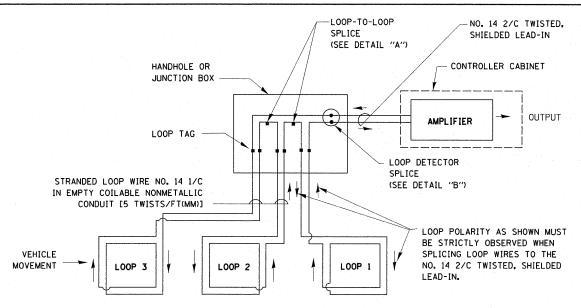
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

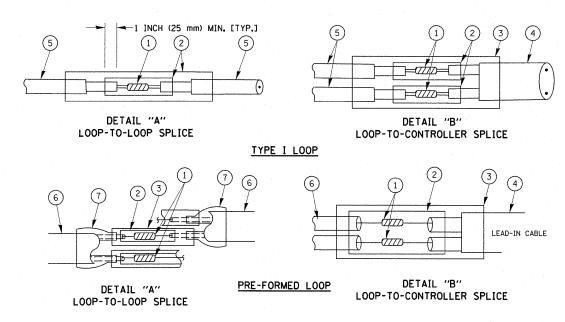


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



LOOP DETECTOR SPLICE

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

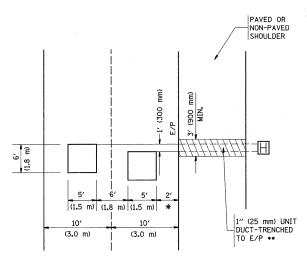
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	PLOT DATE = 5/11/2011	DATE	-	10-28-09	REVISED	

STATI	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

STANDARD TRAFFIC SIGNAL DESIGN DETAILS 1397 134-Y-RS-1 COOK 19 18	DISTRICT ONE	F.A RTE.	SECTION	COUNTY	TOTAL SHEET NO.		
TS-05 CONTRACT NO. 60M27	STANDARD TRAFFIC SIGNAL DE	1397	134-Y-RS-1	соок	19	18	
SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA. FFD. ROAD DIST, NO. 1 III LINOIS FFD. AID PROJECT			TS-05	CONTRACT	NO.	60M27	
	SCALE: NONE SHEET NO. 1 OF 6 SHEETS ST	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		-

LOOPS NEXT TO SHOULDERS

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



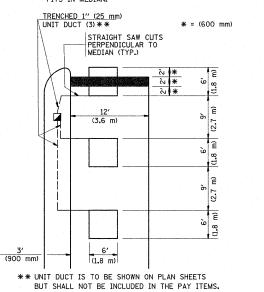
* = (600 mm)

* * 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
BI4001 TO ENSURE THAT HANDHOLE
EITS IN MEDIAN.

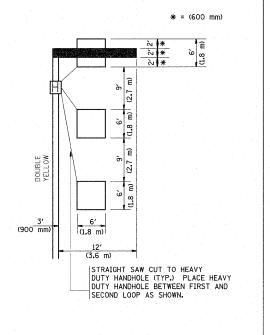


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

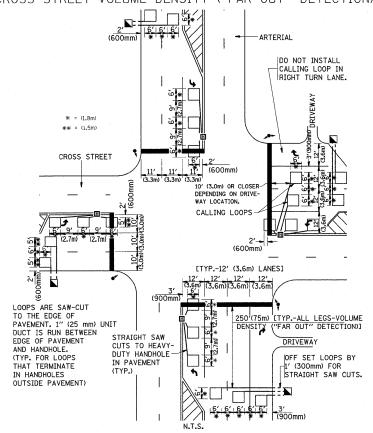


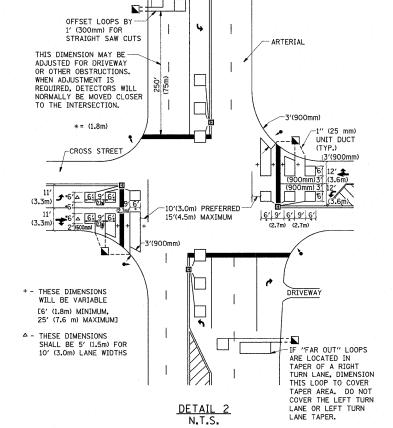
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 SEPARALLY. 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 (1.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED, THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

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

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

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1
TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

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

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	PLOT DATE = 5/11/2011	DATE -	REVISED -			

DETAIL 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			·			
DISTRICT 1 – DETECTOR LOOP INSTALLATION			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS FOR ROADWAY RESU	1397	134-Y-RS-1	COOK	19	19	
· · · · · · · · · · · · · · · · · · ·			TS-07	CONTRACT	NO. 6	50M27
SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		