STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

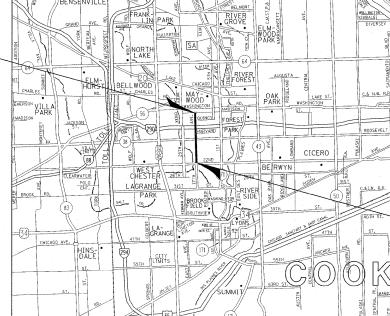
PROJECT IS LOCATED IN THE VILLAGES OF **BROADVIEW & MAYWOOD**

PROPOSED HIGHWAY PLANS

FAU ROUTE 2722: 17TH AVENUE MADISON AVENUE TO 22ND STREET SECTION: 2010–160–RS PROJECT: M-2722(001) **RESURFACING COOK COUNTY** C-91-344-11

PROJECT ENDS: STATION 116 + 15

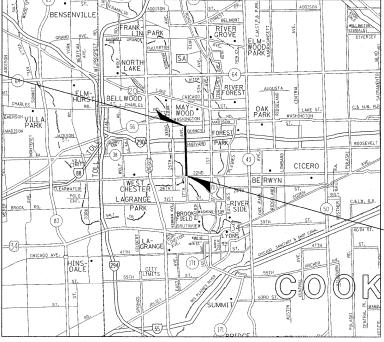
OMISSIONS: 36 + 26 TO 36 + 51 61+66 TO 63+60 87 + 06 TO 89 + 65



PROVISO TOWNSHIP

GROSS LENGTH = 10568 FEET = 2.00 MILES NET LENGTH = 10139 FEET = 1.92 MILES

R12E



D-91-344-11

2722

SECTION

2010-160-RS

COOK

25 1 CONTRACT NO. 60N74



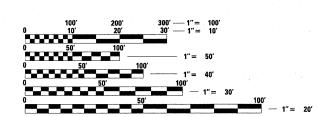
PROJECT BEGINS: STATION 10+47

TRAFFIC DATA: SPEED LIMIT = 30 - 35 MPH

2010 ADT = 10,100

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED MARCH 30, 20 11 Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER Scott E. Stift P.E. 182.
acting ENGINEER OF DESIGN AND ENVIRONMENT Christine M. Roed & DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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

CONTRACT NO. 60N74

INDEX OF SHEETS

STATE STANDARDS

SHEET NO	DESCRIPTION	STANDARD NO. DESCRIPTION
1	TITLE SHEET	000001-06 TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	442201- 03 class c and d patches
3	SUMMARY OF QUANTITIES	606001-04 CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
4-5	EXISTING AND PROPOSED TYPICAL SECTIONS	701427 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS < 40MPH
6-9	ROADWAY AND PAVEMENT MARKING PLANS	701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
10-12	DETECTOR LOOP REPLACEMENT PLANS	701606 <i>-0</i> 7 urban lane closure, multilane, 2w with mountable median
13	DETAILS FOR FRAME AND LIDS ADJUSTMENT WITH MILLING	701701 -07 Urban Lane Closure, multilane intersection
14	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
15	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	701901 -01 TRAFFIC CONTROL DEVICES
16	BUTT JOINT AND HMA TAPER DETAILS	886001-01 DETECTOR LOOP INSTALLATION
17	HMA TAPER AT EDGE OF PCC PAVEMENT	886006-01 TYPICAL LAYOUT FOR DETECTION LOOPS
18	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS	
19	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	
20	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	
21	TRAFFIC CONTROL AND PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC)	
22	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGI	NG
23	ARTERIAL INFORMATION SIGNING	

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 REQUIRED)

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF BROADVIEW & MAYWOOD.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISABILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

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

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.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SNOWN IN THE PLANS.

THE RESIDENT ENGINEER SHALL CONTACT MR. WALLY CZARNY, AREA TRAFFIC FIELD ENGINEER, AT (847) 715-8419 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

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DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR

ROADWAY RESURFACING

24

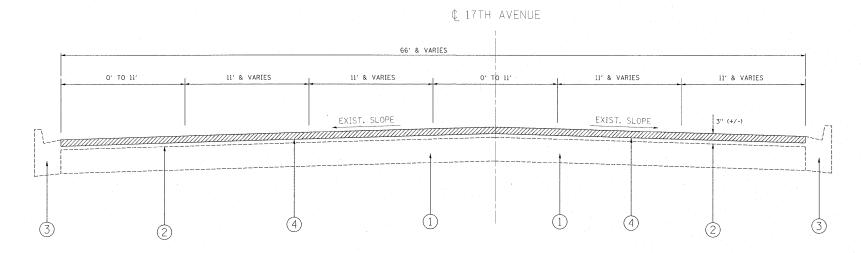
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

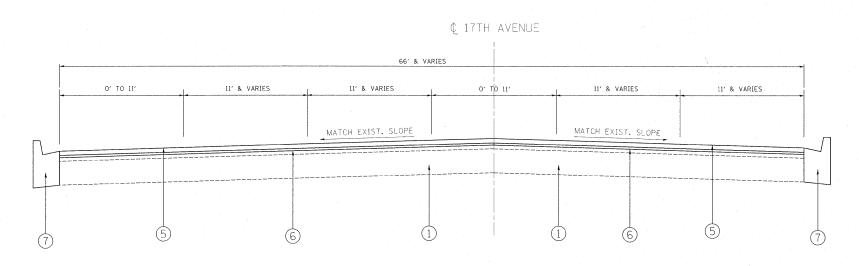
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	•	17TH	AVE. (MADI	SON AV	E – 22	ND ST	(REET)		
	INDEX	OF S	HEETS	, STA	TE STAN	IDARDS	& G	ENERA	L NOTES	\$
LE:	NONE	SHEE	T NO. 2	OF 25	SHEETS	STA.	10+47 1	O STA.	116+15	

F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
2722	2010-160-RS		COOK	25	2
			CONTRACT	NO. 6	ON74
FED. R	OAD DIST. NO. 1 ILLINOIS	FED.	AID PROJECT		- 1

· ·	SUMMARY OF QUANTITIES		URBAN 80% FED- 20% STATE		C	ONSTRUCT	ION TYPE	CODE			SUMMAI	RY OF QUANTITIES		URBAN 801. FED 201. STATE		(ONSTRUCT	ION TYPE	CODE	
CODE NO	ITEM	UNIT	TOTAL	0005						CODE NO		ITEM	UNIT	TOTAL						
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	275	275						70300240	TEMPORARY PA	VEMENT MARKING	FOOT	4191	4191					
25200110	SODDING, SALT TOLERANT	SQ YD	275	275							- LINE 6"									
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	41	41	,					70300260	TEMPORARY PA	VEMENT MARKING	FOOT	685	685					
40600300	AGGREGATE (PRIME COAT)	TON	203	203						70300280		VEMENT MARKING	FOOT	642	642					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	76	76					ar in	70301000	- LINE 24" WORK ZONE PA	VEMENT MARKING REMOVAL	SQ FT	972	972					
40600895	CONSTRUCTING TEST STRIP	EACH	1	1						* 78000100		C PAVEMENT MARKING	SQ FT	554	554					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	613	613						* 78000200	- LETTERS AN	D SYMBOLS C PAVEMENT MARKING	FOOT	18761	18761					
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	460	460						* 78000400	- LINE 4" THERMOPLASTI	C PAVEMENT MARKING	FOOT	4191	4191					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	619	619						* 78000600	- LINE 6" THERMOPLASTI	C PAVEMENT MARKING	FOOT	685	685					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	4257	4257	-					* 78000650	- LINE 12" THERMOPLASTI	C PAVEMENT MARKING	FOOT	642	642					
42001300	PROTECTIVE COAT	SQ YD	733	733	-					70100100	- LINE 24"	OTIVE DIVENEY MARKED	5.00	70.						
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SQ FT	825	825			-			* 78100100 78300200	RAISED REFLE	CTIVE PAVEMENT MARKER CTIVE PAVEMENT MARKER	EACH	384 346	384					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	50683	50683						* 88600600	REMOVAL DETECTOR LOO	P REPLACEMENT	FOOT	756	756					
44000600	SIDEWALK REMOVAL	SQ FT	825	825						X4060826	POLYMERIZED	LEVELING BINDER (MACHINE	TON	2091	2091					
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES,	SO YD	3682	3682						X4400100		ENT CONCRETE SURFACE	SQ YD	328	328					
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	896	896						V6030310	REMOVAL (VAR		FACIL	e.e.						
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	903	903	·			·		X6030310	(SPECIAL)	IDS TO BE ADJUSTED	EACH	55	55					
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	. 1331	1331						Z0004562	COMBINATION REMOVAL AND	CONCRETE CURB AND GUTTER REPLACEMENT	FOOT	2200	2200					
50257900	MANHOLES TO BE RECONSTRUCTED	EACH	4.	4					-	△ Z0018500	DRAINAGE STR	UCTURES TO BE CLEANED	EACH	25	25					
60266600	VALVE BOXES TO BE ADJUSTED	EACH	4	4						Z0030850	TEMPORARY IN	FORMATION SIGNING	SQ FT	51.4	51.4					
50300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	10	10						Z0048665	RAILROAD PRO	TECTIVE LIABILITY INSURANCE	L SUM	1	1					
57000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6 .	6																
57100100	MOBILIZATION	L SUM	1	1																
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	-		desired to the second s													
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1																
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1																V. 1 *
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8751	8751	·								-							
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	554	554																
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18761	18761	-			,	-											
											A NON-PARTICE ★ SPECIALTY	PATING(100% STATE)								
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EXISTING TYPICAL SECTION
17TH AVENUE
STATION:
10+47 TO 36+26



PROPOSED TYPICAL SECTION
17TH AVENUE
STATION:
10+47 TO 36+26

LEGEND

- (1) EXIST. PCC BASE COURSE, 7"(±)
- ② EXIST. HOT-MIX ASPHALT SURFACE COURSE (BEFORE MILLING), 3"(±)
- 3 EXIST. CONCRETE CURB AND GUTTER
- (4) PROP. HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4"
- (5) PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- 6 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- PROP. CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)

NOTES:

- 1. SEE ROADWAY AND PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS OF LEFT TURN LANES AND PAINTED MEDIANS.
- 2. PATCHING OF THE ROADWAY SHALL BE DONE PRIOR TO PAVEMENT MILLING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE TYPE	AIR VOIDS (%)
ROADWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5MM), 1 1/2"	4% @ 70 GYR
NOAD WAT	POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"	4% @ 50 GYR
PATCHES	CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR
TAICHES	HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR

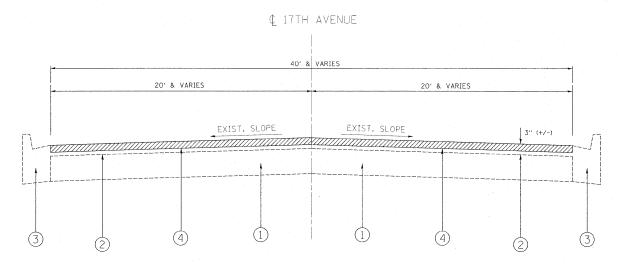
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR ALL 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.

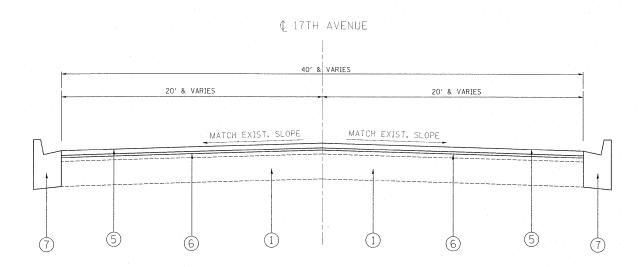
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	17TH AVE. (MADISON AVE	- 22ND STREFT)	F.A. RTF.	SECTION	COUNTY	TOTAL	SHE
	EXISTING AND PROPOSED		2722	2010-160-RS	соок	25	4
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SUALE:	SHEET NO. 4 OF 25 SHEETS	31A. 10+41 TO STA. 116+15	FED. RO	OAD DIST, NO. 1 ILLINOIS FED. A	ID PROJECT		



EXISTING TYPICAL SECTION
17TH AVENUE
STATION:
36+51 TO 61+65
63+60 TO 87+31
89+40 TO 116+15



PROPOSED TYPICAL SECTION
17TH AVENUE
STATION:
36+51 TO 61+65
63+60 TO 87+31
89+40 TO 116+15

LEGEND

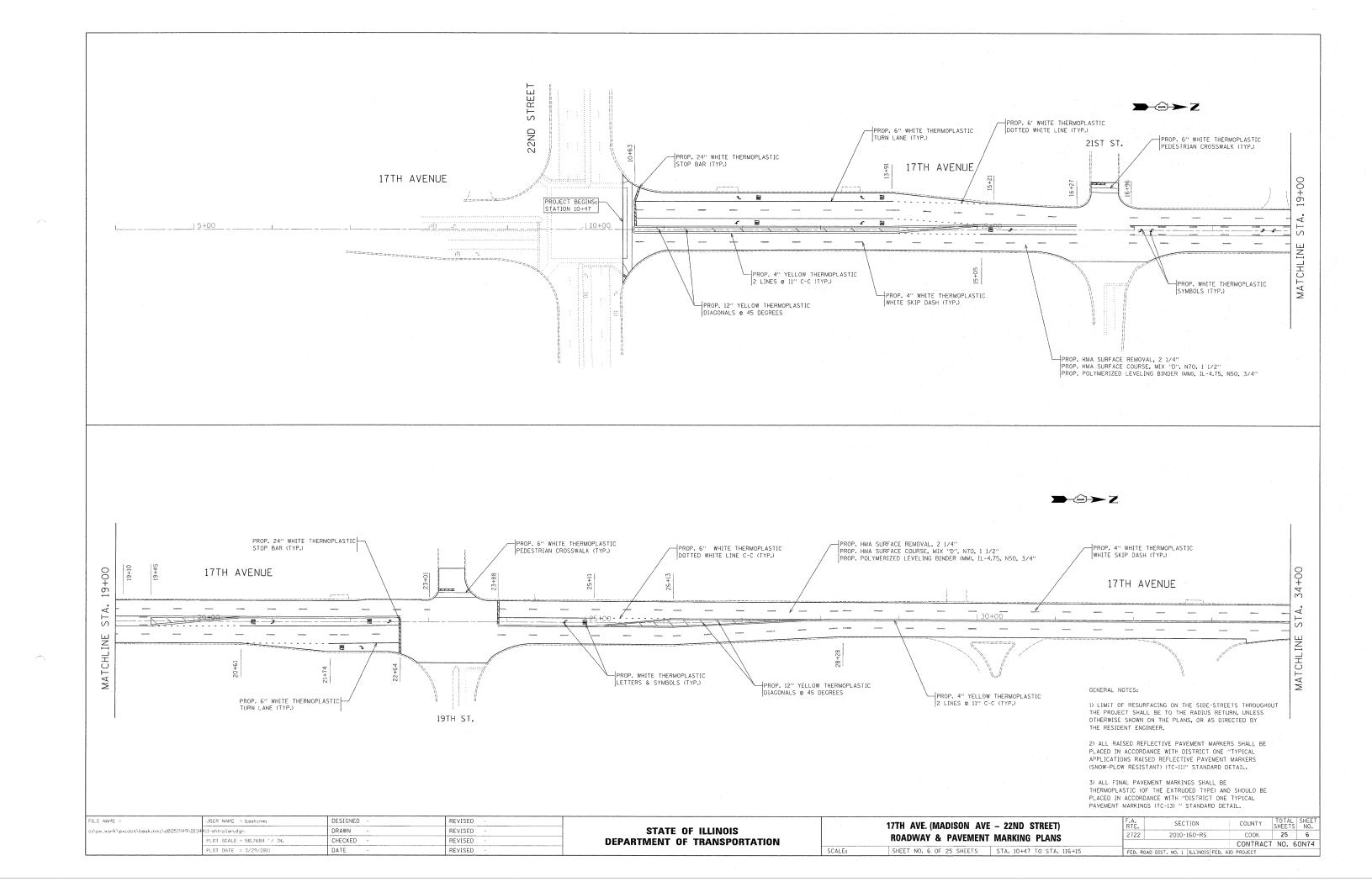
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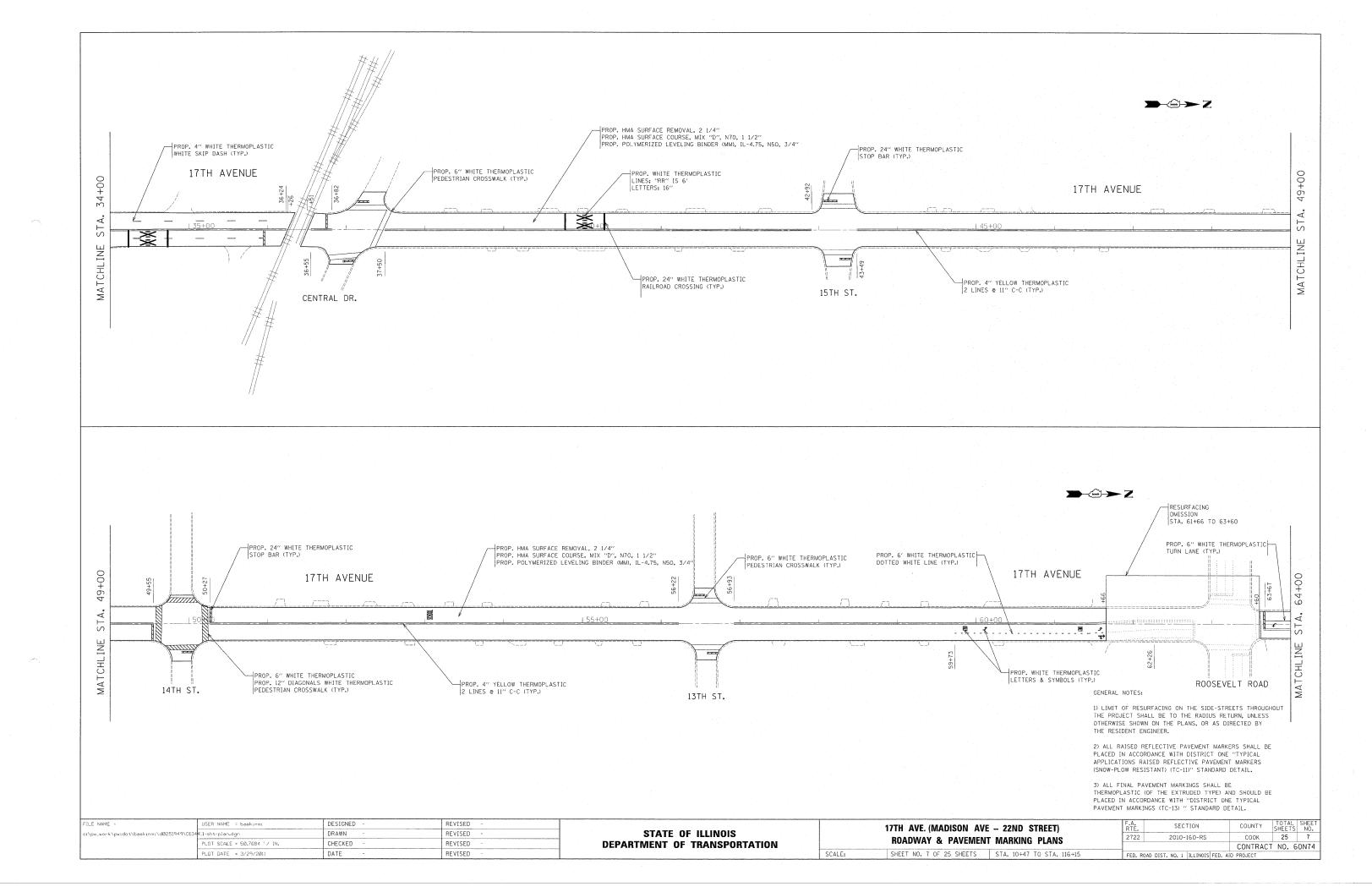
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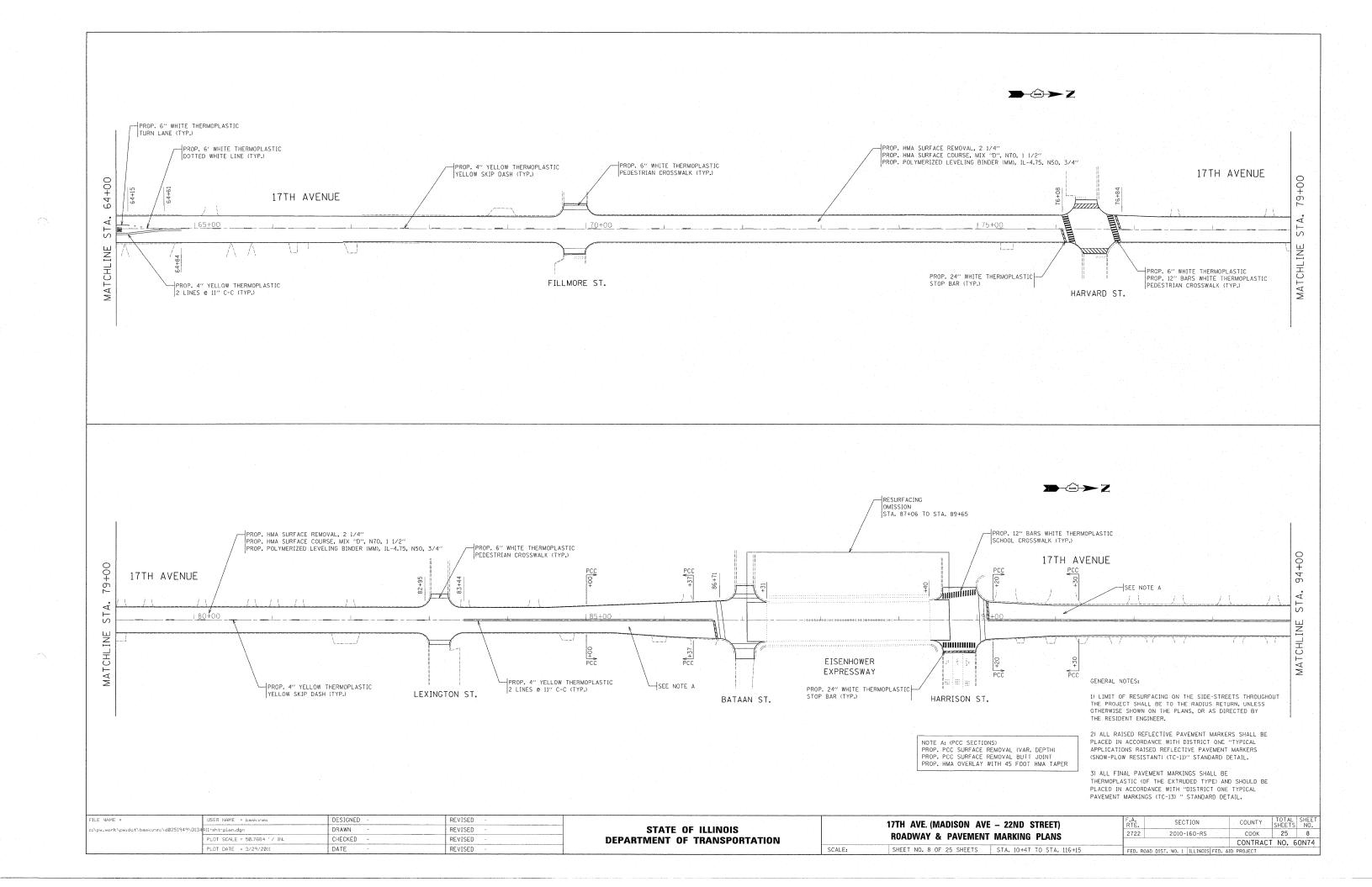
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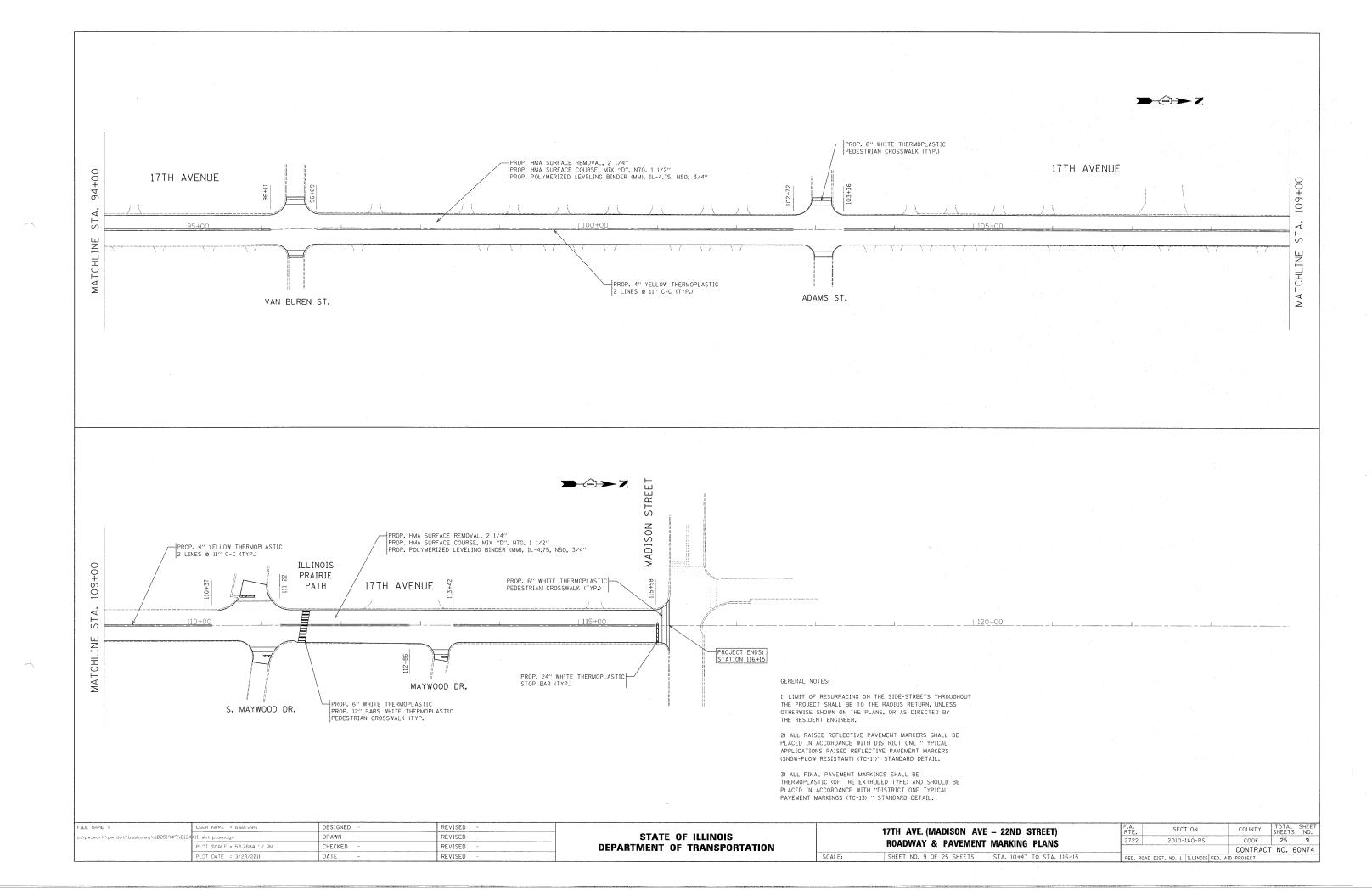
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
2722	2010-160-RS	COOK	25	5
		CONTRACT	NO. 6	ON74
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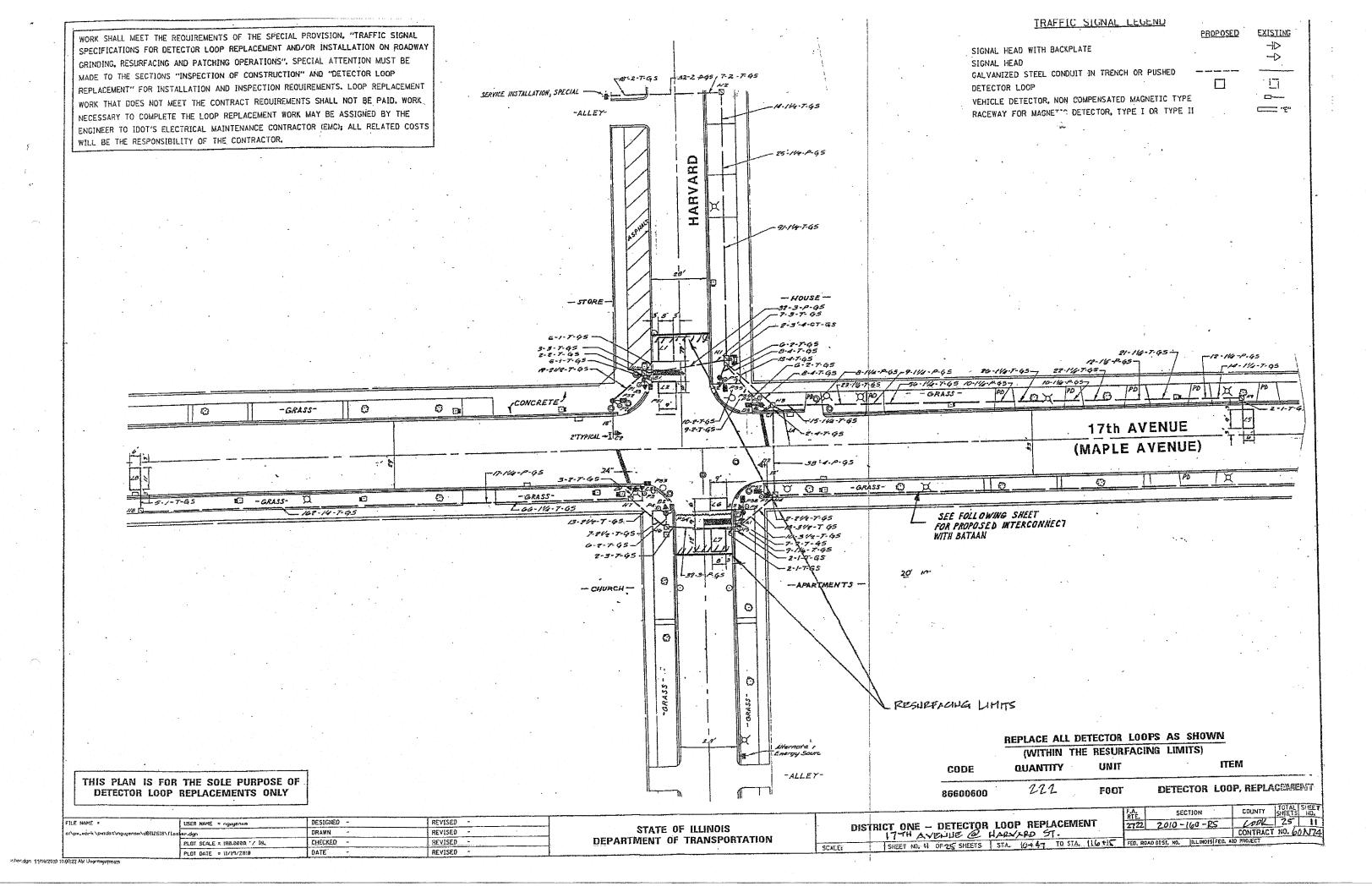




TRAFFIC SIGNAL LEGEND WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL PROPOSED EXISTING SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY SIGNAL HEAD WITH BACKPLATE $\dashv \triangleright$ GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE \rightarrow SIGNAL HEAD MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS, LOOP REPLACEMENT DETECTOR LOOP WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II ~= "E" ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. 16-CT (2)1"UD 4-CT (2))"UD 2.1/2" REUSE EXISTING MAST ARM 13'x 5' INSPECTION OPENING POLE AND FOUNDATION IN NW. B SE. QUADRANTS. SPLICE NEW CONDUIT TO 2-1/2" | ROOSEVELT RD. CONDUIT EXTENDING FROM THE FOUNDATION. 17'-T C <u>"</u> <u>*0</u> 76'-P 3" ₹9-cr * 117 - 6 13'x5' INSPECTION OPENING -4'-CT (2)1"UD BEGIN RESULTACING SB B NB ONLY 15.5 16'-CT REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS) ITEM QUANTITY UNIT THIS PLAN IS FOR THE SOLE PURPOSE OF CODE DETECTOR LOOP REPLACEMENTS ONLY 198 FOOT DETECTOR LOOP, REPLACEMENT 86600600 FILE NAME = DESIGNED -COUNTY SHEETS NO. REVISED -**SECTION** DISTRICT ONE - DETECTOR LOOP REPLACEMENT

17 TH AVE. C ROSEVELT RAD

SHEET NO. 10 OF 25 SHEETS STA. 10 447 TO STA. 116+15 FEB. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT DRAWN -STATE OF ILLINOIS er-dan REVISED -CONTRACT NO. GON 74 PLOT SCALE = 100.0000 '/ IN. CHECKED DEPARTMENT OF TRANSPORTATION REVISED -PLOT DATE # 11719/2010 DATE SCALE REVISED her.dgn 11/19/2010 10:00:22 AM User=nouven:



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SIGNAL HEAD WITH BACKPLATE

SIGNAL HEAD

GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED

DETECTOR LOOP

VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE

RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II

EXISTING

EXISTING

EXISTING

EXISTING

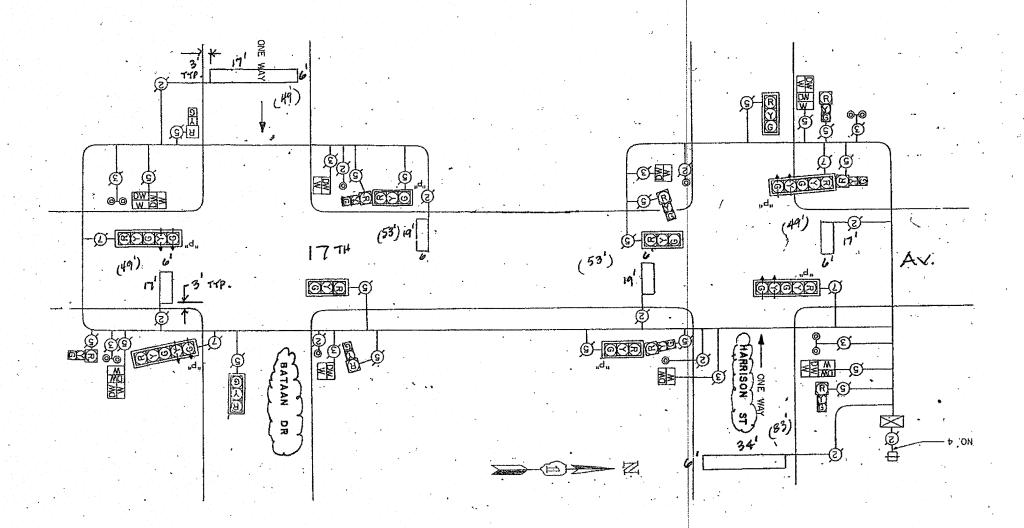
FINAL HEAD

FROPOSED

EXISTING

FINAL HEAD

FINAL



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT 2722 2010 -

CODE

86600600

QUANTITY

336

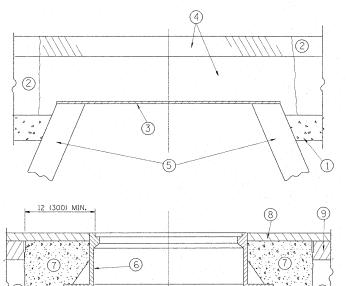
DETECTOR LOOP, REPLACEMENT

ITEM

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

FOOT

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PROPOSED BRICK, MORTAR, OR CONC. ADJUSTING RINGS

NOTES:

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

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

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

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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE,
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 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.

LEGEND

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

LOCATION OF STRUCTURES:

TO STA. 116+15

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.

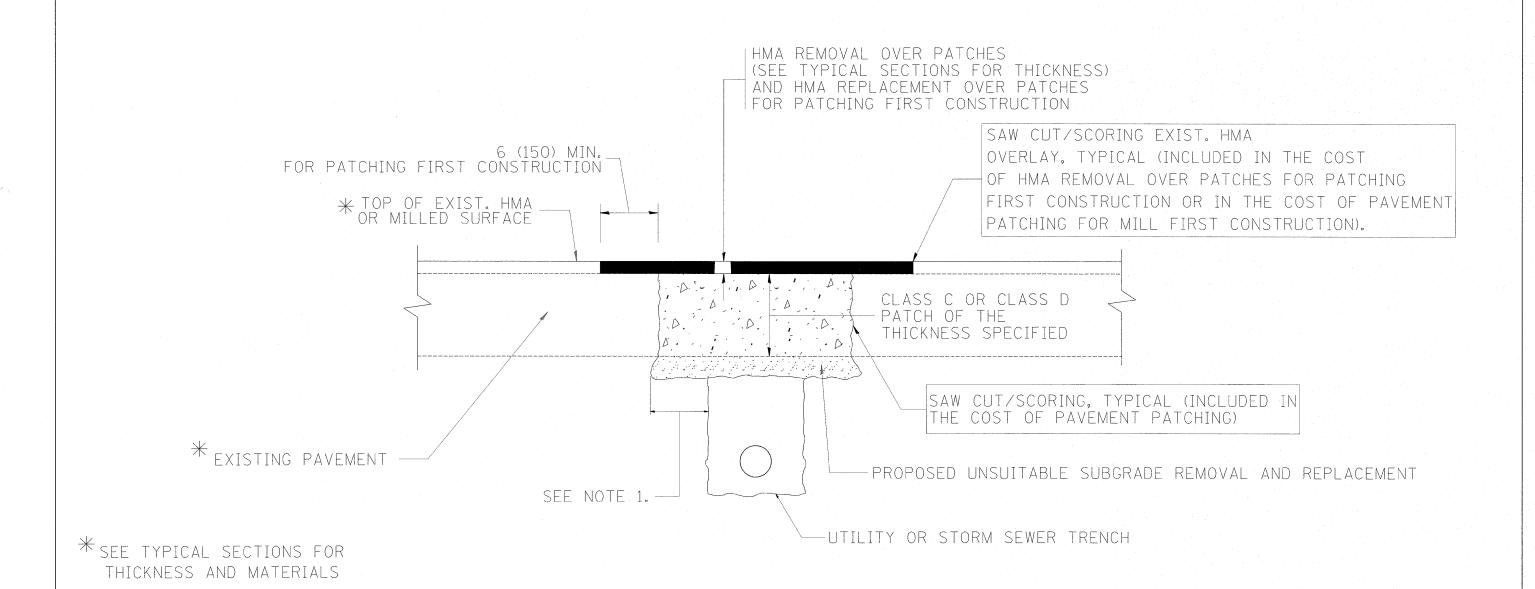
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = baskinmi	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 = 3/29/2011	DATE - 10-25-94	REVISED - R. BORO 03-09-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		D	ETAILS FO	R		
	FRAMES AND	LIDS	ADJUSTN	IENT W	ITH MILI	ING
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	10+47	TO



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".

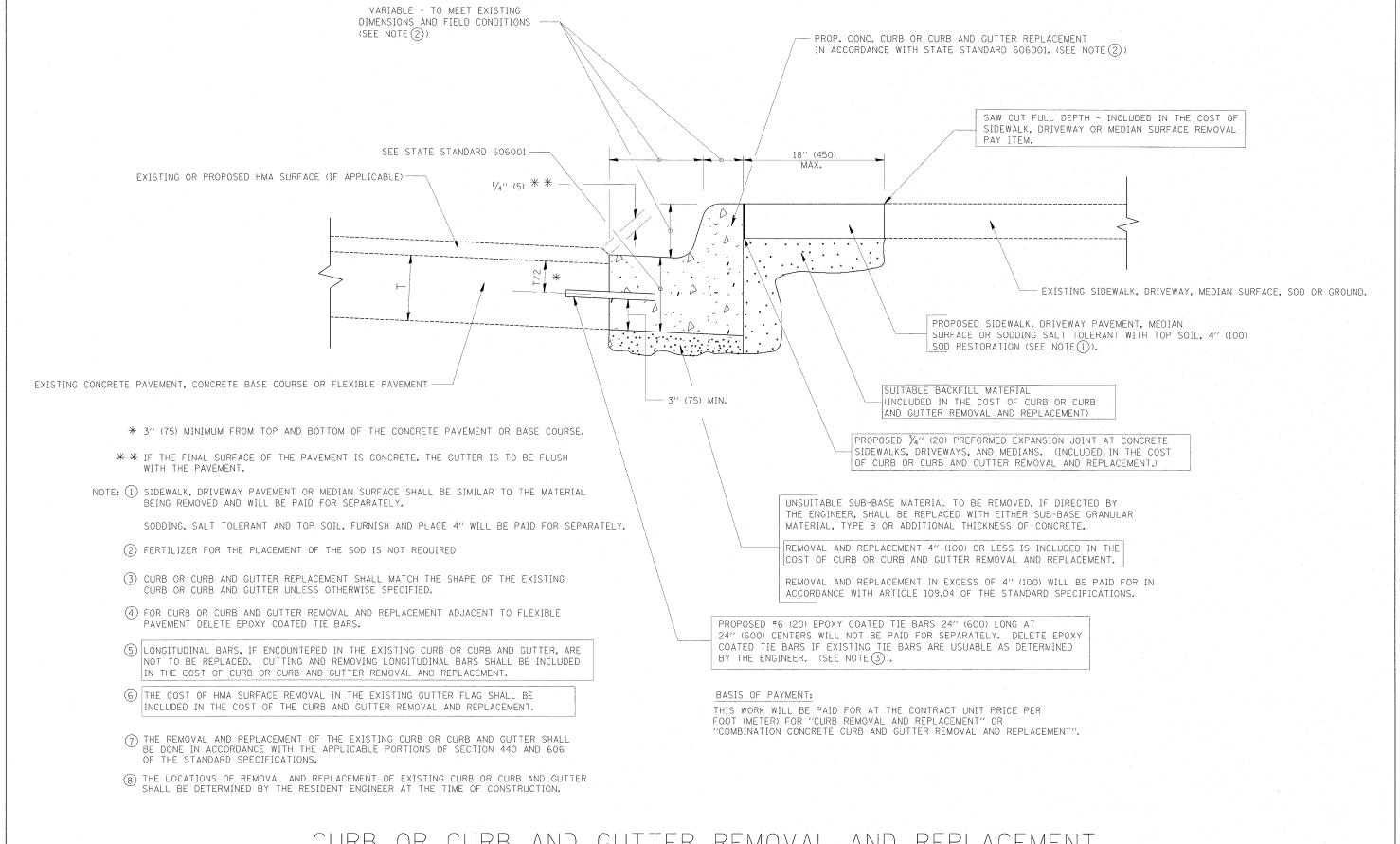
SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

- 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 MATÉRIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

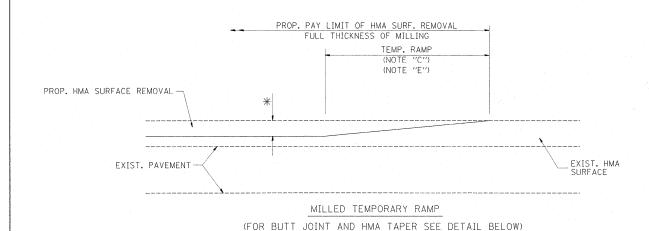
- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

	FILE NAME =	USER NAME = baskinmi	DESIGNED - R. SHAH	REVISED -	A. ABBAS 04-27-98			PAVEMENT PATCHING FOR	F.A.	SECTION	COUNTY	TOTAL SHEET
	c:\pw_work\pwidot\baskinmi\c0251949\Dist	Std.dgn	DRAWN -	REVISED -	R. BORO 01-01-07	STATE OF ILLINOIS			2722	2010-160-RS	соок	25 14
		PLDT SCALE = 50.7684 '/ IN.	CHECKED -	REVISED -	R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		HMA SURFACED PAVEMENT		BD400-04 (BD-22)	CONTRACT	
L		PLOT DATE = 3/29/2011	DATE - 10-25-94	REVISED -	K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA, 10+47 TO STA, 116+15		DAD DIST. NO. 1 ILLINOIS FED. A		

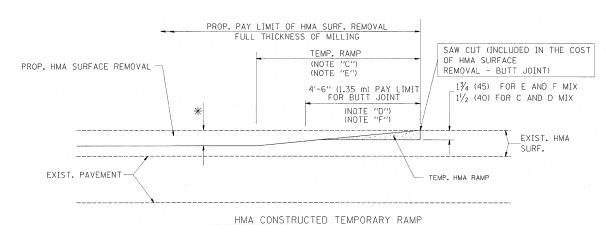


CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

FILE	NAME =	USER NAMÉ = baskinmi	DESIGNED - A. HOUSEH	REVISED -	R. SHAH 10-03-96			CURB OR CURB AND GUTTER	F.A	SECTION	COUNTY TOTAL SHEET
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		PLDT SCALE = 50.7684 ' / IN.	CHECKED -	REVISED -	M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION				D600-06 (BD-24)	CONTRACT NO. 60N74
L		PLDT DATE = 3/29/2011	DATE - 03-11-94	REVISED -	R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. 10+47 TO STA. 116+15	FED. ROA	D DIST. NO. 1 ILLINOIS FED.	AID PROJECT



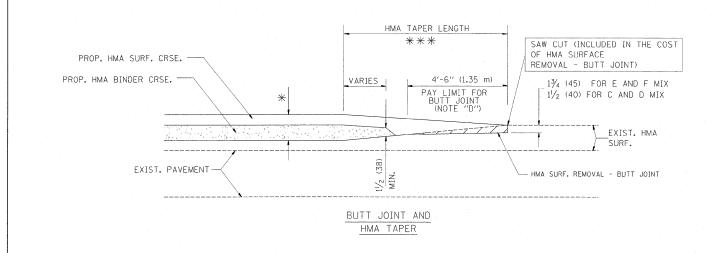
OPTION 1



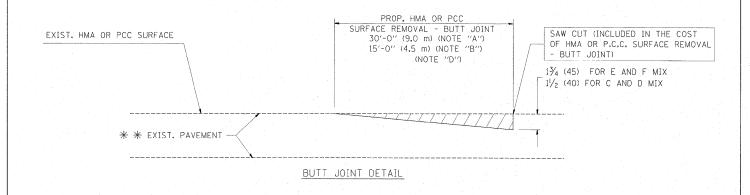
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

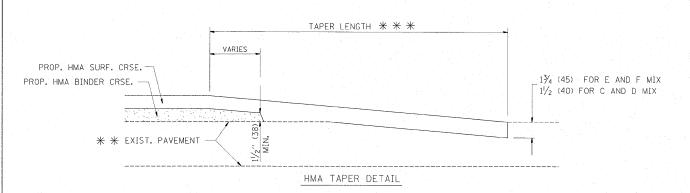
OPTION 2

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.

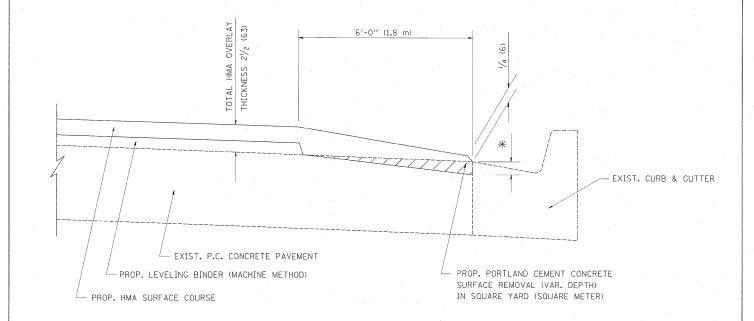
NOTES

- 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'-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 SOUARE YARD (SOUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

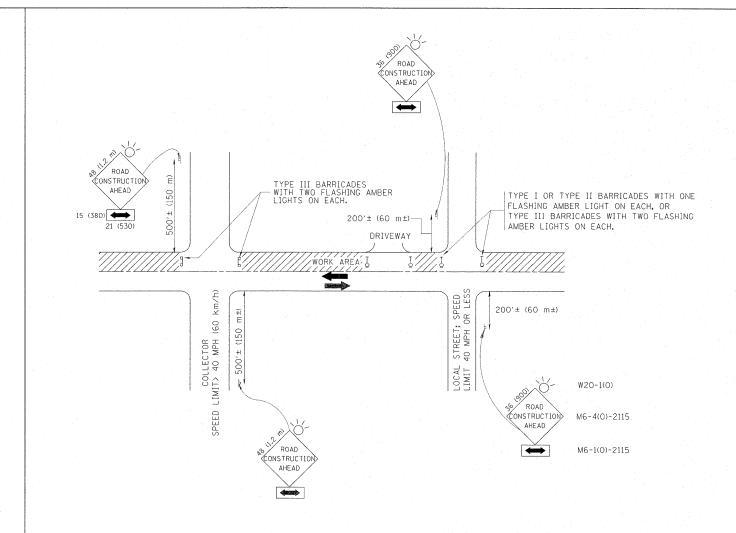
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	PLOT DATE = 3/29/2011	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 10+47 TO STA. 116+15		AID PROJECT



HMA TAPER AT EDGE OF P.C.C PAVEMENT

HMA SURFACE		LEVELING BINDER	
MIX	THICKNESS	THICKNESS	★ MILLING AT GUTTER FLAG
C OR D	1/2 (38)	1 (25)	11/4 (33)
F	13/4 (44)	3/4 (19)	1/2 (38)

Ī	FILE NAME:=	USER NAME = baskinmi	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94			HMA TAPER AT		F.A. SE	CTION	COUNTY	TOTAL
	c:\pw_work\pwidot\baskinmi\d0251949\Dist	Std.dgn PLOT SCALE = 50.7684 '/ IN.	DRAWN - JIS CHECKED - A. ABBAS	REVISED - A. ABBAS 05-05-99 REVISED - E. GOMEZ 12-21-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		EDGE OF P.C.C. PAVEMENT)-160-RS (BD33)	COOK	25
l		PLOT DATE = 3/29/2011	DATE - 09-10-94	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. 10+47	TO STA. 116+15	BD400-06 FED. ROAD DIST. NO.		AID PROJECT	110.



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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;
- Q) 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:
- a) 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.

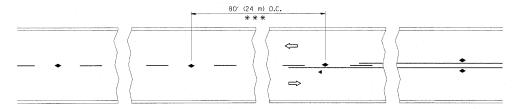
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	PLOT SCALE = 50.7684 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 3/29/2011	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

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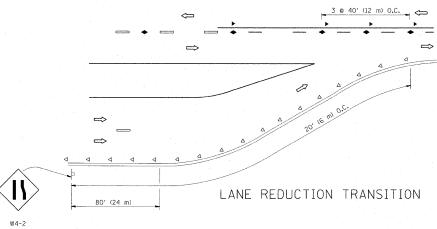
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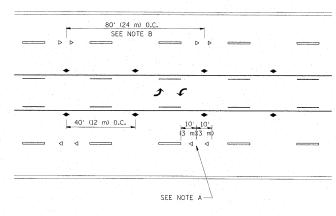
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 10+47 TO STA. 116+15 FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJE



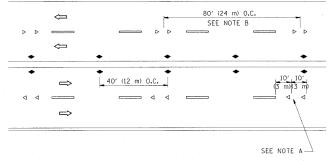
* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

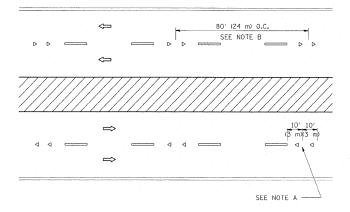




TWO-WAY LEFT TURN







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.
- 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

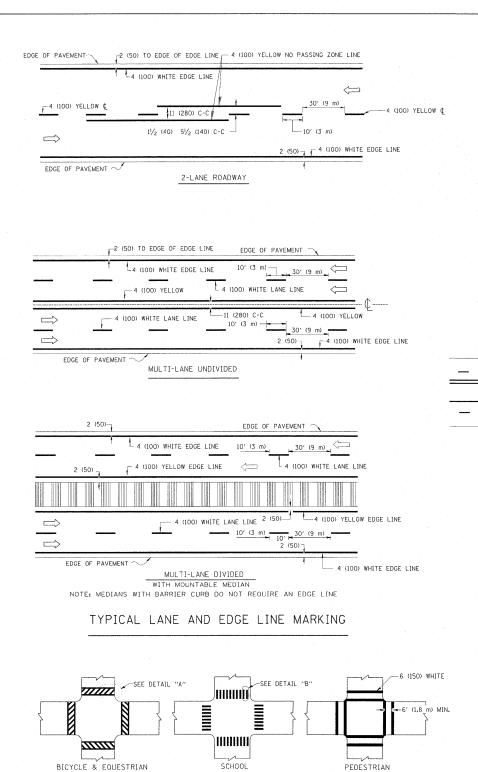
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD 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.

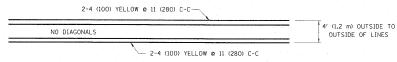
3 @ 80' (24 m) 0.C. —		MINIMUM OF 3 W EQUALLY SPACED	ê * C * C * C * C * C * C * C * C * C *	3 @ 80' (24 m) 0.C
* 0.C. * * T*	40' (12 m) 0.C.	40' (12 m) O.C. 40' (12 m) O.C.	0.c.	
		* SEE TWO-LANE/TWO-WAY WHERE MARKET ** WHERE THE MEDIAN WIDTH IS 6' (2 m) USE TWO-WAY MARKERS.		

LEFT TURN

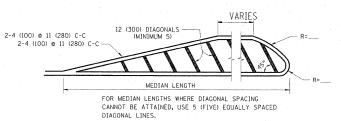
All dimensions are in inches (millimeters) unless otherwise shown.

FILF NAME =	USER NAME = baskinmi	DESIGNED -	REVISED -T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS	F.A. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\baskinmi\d0251949\Dist	td.dgn	DRAWN	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	2722 2010-160-RS	COOK 25 19
	PLOT SCALE = 50.7684 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION		TC-11	CONTRACT NO. 60N74
	PLOT DATE = 3/29/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 10+47 TO STA. 116+15	FED. ROAD DIST. NO. 1 ILLINOIS FED. /	AID PROJECT



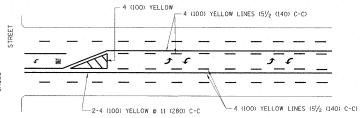


4' (1.2 m) WIDE MEDIANS ONLY

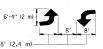


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

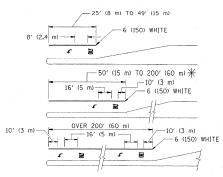


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

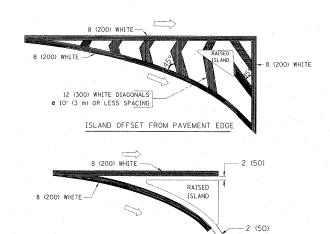


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* 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

ISLAND AT PAVEMENT EDGE

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 & 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	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: 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENTING 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	II (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 SO. FT. (0.33 m²) EACH "X"=54.0 SO. 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 (0VER 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.

FILE NAME =	USER NAME = baskınmı	DESIGNED - EVERS	REVISED	-T. RAMMACHER	10-27-94
c:\pw_work\pwidot\baskirmi\d0251949\Dist	itd.dgn	DRAWN	REVISED	-C. JUCIUS	09-09-09
	PLOT SCALE = 50.7684 '/ IN.	CHECKED -	REVISED	-	
	PLOT DATE = 3/29/2011	DATE - 03-19-90	REVISED	_	

-12 (300) WHITE

DETAIL "B"

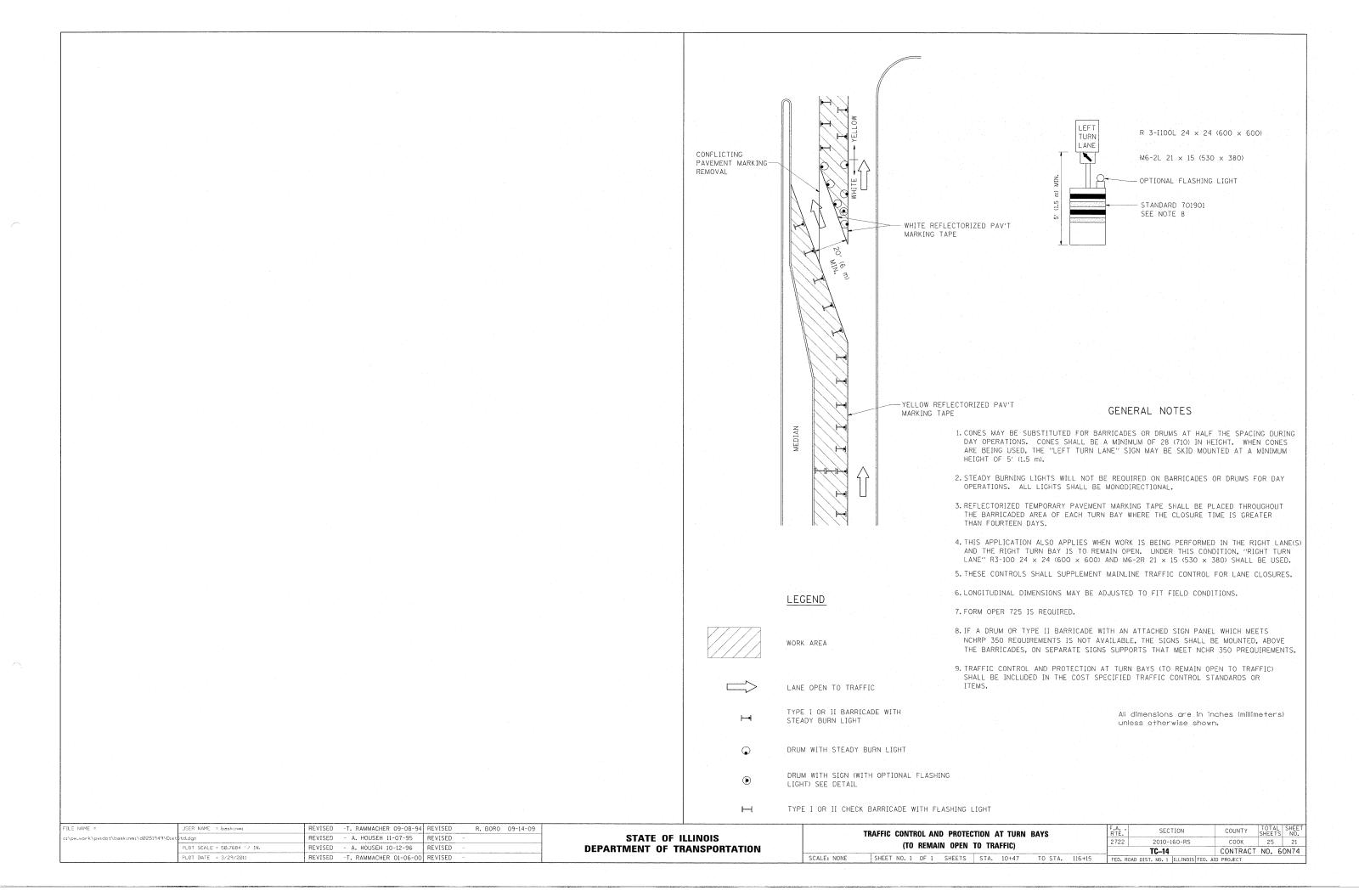
6 (150) WHITE

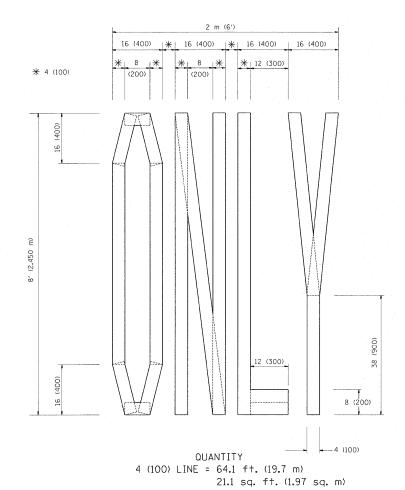
TYPICAL CROSSWALK MARKING

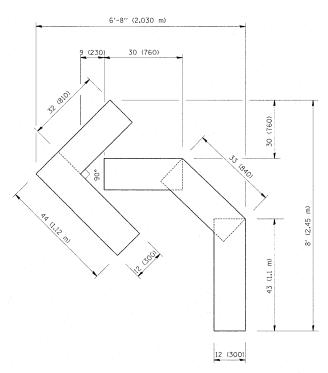
DETAIL "A"

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

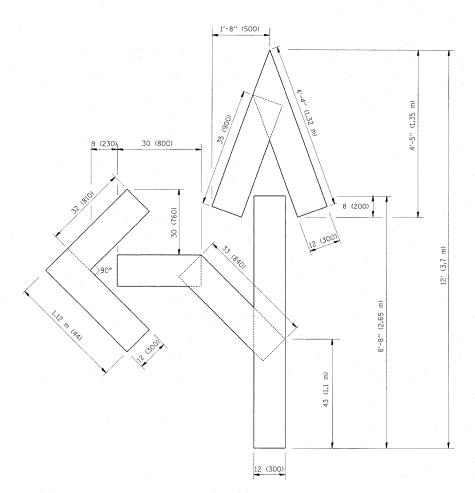
DISTRICT ONE TYPICAL PAVEMENT MARKINGS							. :	F.A RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
							2722	2010-160-RS	COOK	25	20	
ITFICAL PAVEINENT MARKINGS									TC-13	CONTRACT	NO. 6	ON74
SCALE: NONE	SHEET NO. 1	0F 1	SHEETS	STA.	10+47	TO STA.	116+15	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		







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



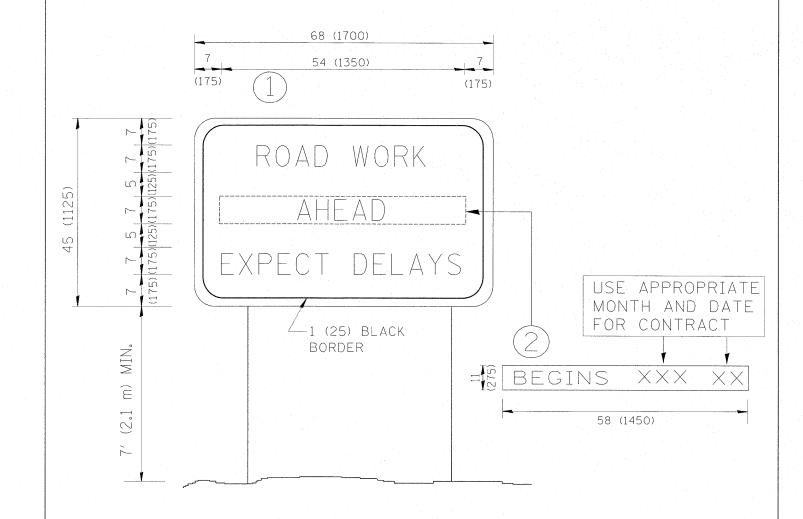
QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = baskinmi	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
c:\pw_work\pwidot\baskinmi\d0251949\Dist	td.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.7684 '/ IN.		REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 3/29/2011	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OI	F ILLINOIS	
DEPARTMENT OF	TRANSPORTATION	

PAVEMENT MARKING LETTERS AND SYMBOLS								F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		EOD TO	AFFIC ST	VCING				2722	2010-160-RS	COOK	25	22
		TON IN	MITIC ST	Adiiva					TC-16	CONTRACT	NO. 6	ON74
CALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	10+47	TO STA.	116+15	FED. RO	AD 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.

FILE NAME =	USER NAME = baskinmi	DESIGNED -	REVISED	R. MIRS 09-15-97
c:\pw_work\pwidot\baskirmi\d0251949\Dist	Std.dgn	DRAWN	REVISED	- R. MIRS 12-11-97
	PLOT SCALE = 50.7684 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER 02-02-99
	PLOT DATE = 3/29/2011	DATE -	REVISED	- C. JUCIUS 01-31-07

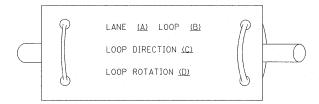
STATE	OF	ILLINOIS
DEPARTMENT	OF '	TRANSPORTATION

		ERIAL RO	AD				F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
INFORMATION SIGN							2722	2010-160-RS	COOK	25	23	
INFORMATION SIGN									TC-22	CONTRACT	NO. 6	ON74
ALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	10+47	TO STA.	116+15	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

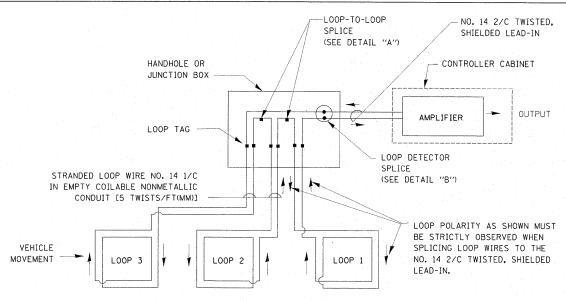
LOOP DETECTOR NOTES

- 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

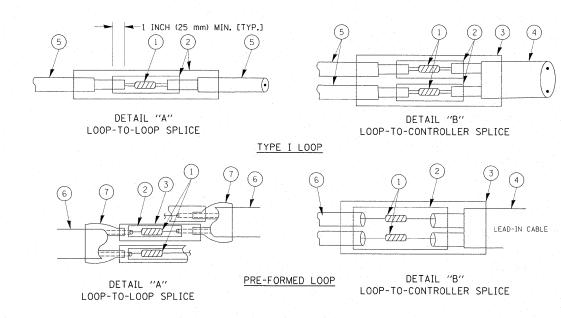


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

- 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
- 7 XL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

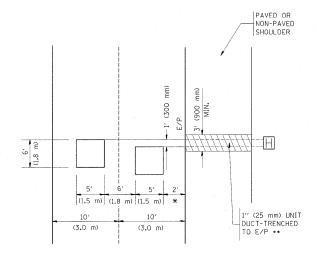
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	PLOT DATE = 3/29/2011	DATE	-	10-28-09	REVISED	-	

	STATE	OF	ILLINOIS	
DEPART	MENT	OF '	TRANSPORTATION	

	DISTRICT	DNE			F.A RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	STANDARD TRAFFIC SIGN	AI DESIGN DETAIL	e		2722	2010-160-RS	COOK .	25	24
		AL DESIGN DETAIL				TS-05	CONTRACT	NO. 6	50N74
SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA. 10+47	TO STA.	116+15	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 PAVED SHOULDER.



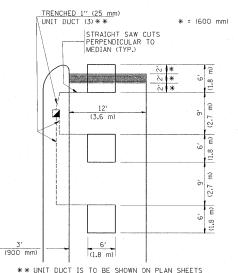
* = (600 mm)

* * 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
MOUNITABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.

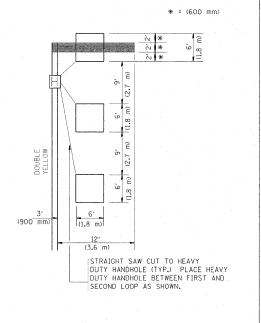


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

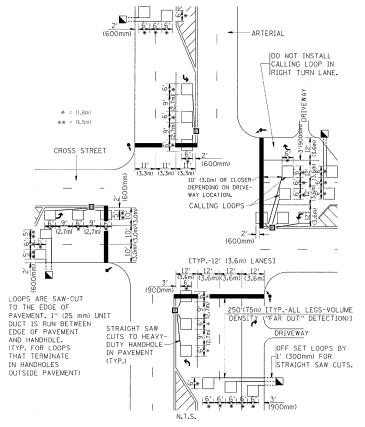
(PROTECTED / PERMITTED LEFT TURN PHASING)

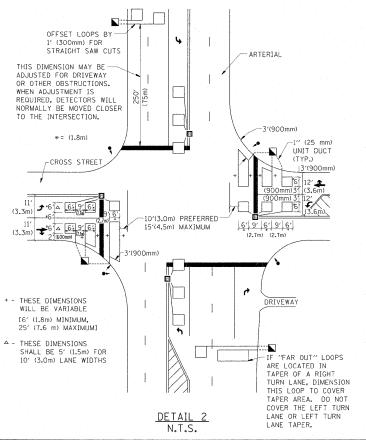


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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, <u>MORE</u>
 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.

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	PLOT DATE = 3/29/2011	DATE -	REVISED -

DETAIL 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION	F.A RTE.
DETAILS FOR ROADWAY RESURFACING	2722
SHEET NO. 1 OF 1 SHEETS STA. 10+47 TO STA. 116+15	FED ROAD DIST

F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
2722	2010-160-RS	СООК	25	25			
	TS-07	CONTRACT	NO. 6	ON74			
FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT							