FOR INDEX OF SHEETS, SEE SHEET NO. 2

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THE PROJECT IS LOCATED IN THE VILLAGE OF LIBERTYVILLE

TRAFFIC DATA:
2007 ADT = 23900
POSTED SPEED LIMIT = 35 MPH

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER ROBERT BORO (847) 705-4178
PROJECT MANAGER KEN ENG

CONTRACT NO. 60F30

STATE OF ILLINOIS

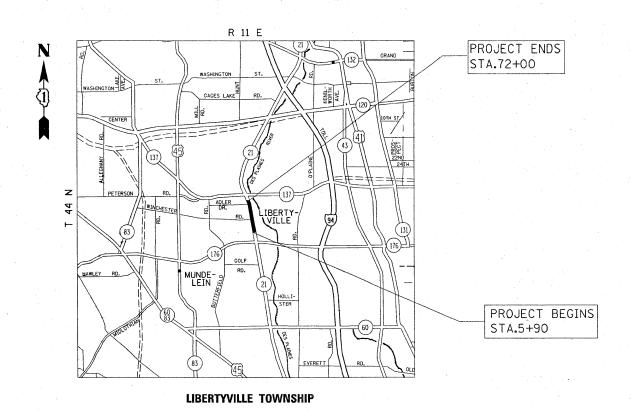
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

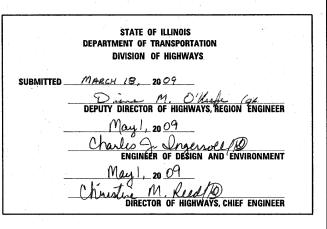
FAP ROUTE 330: IL 21 (MILWAUKEE AVE)
IL 137 (BUCKLEY RD.) TO CHURCH STREET
SECTION 128 RS-4
RESURFACING (MAINTENANCE)

LAKE COUNTY C-91-061-09



GROSS LENGTH AND NET LENGTH OF PROJECT = 6610 FT. = 1.25 MILE





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE STANDARDS

MOVING OPERATIONS

	INDEX OF SHEETS	442201 <i>-0</i> 3	CLASS C AND D PATCHES
		604001-03	FRAME AND LIDS TYPE 1
1	TITLE SHEET	606001 -04	CONCRETE CURB AND COMBINATION CURB AND GUTTER
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	000001 = (
3	SUMMARY OF QUANTITIES	701101- <i>02</i>	OFF-ROAD MOVING OPERATIONS MULTILANE, 4.5 M (15') TO 600 MM (24'') FROM PAVEMENT EDGE
4-5	TYPICAL SECTIONS	701426- <i>03</i>	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEED \geq 45 MPH
6-8	ROADWAY AND PAVEMENT MARKING PLAN	701606-00	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
9-13	DETECTOR LOOP REPLACEMENT PLAN		
14	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701701- <i>0</i> 6	URBAN LANE CLOSURE, MULTILANE INTERSECTION
15	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701901- <i>0</i> 1	TRAFFIC CONTROL DEVICES
.16	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	780001- <i>0</i> 2	TYPICAL PAVEMENT MARKINGS
. 17	TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTION AND DRIVEWAYS (TC-10)		
18	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (T	C-11)	
19	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)		
20	TRAFFIC CONTROL & PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)		
21	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)		
22	ARTERIAL ROAD INFORMATION SIGN (TC-22)		

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, VILLAGE OF LIBERTYVILLE.

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OFTHE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

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 PATCHING.

THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

BEFORE BEGINING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERANCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKINGS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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

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

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS), WILL BE DETERMINED IN THE FIELD BY THE BY THE ENGINEER.

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

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

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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

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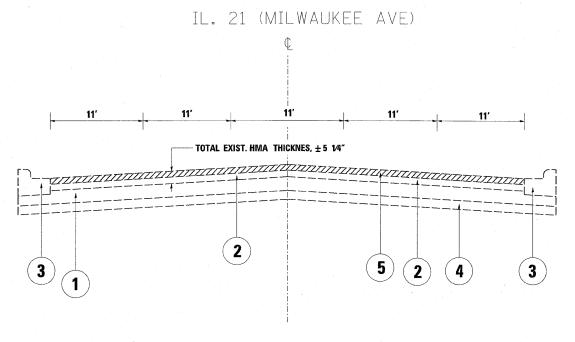
DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE	E OF	ILLINOIS	
DEPARTMENT	OF '	TRANSPORTATION	

IL. 21 (MILW INDEX (AUKEE AV		-			
SCALE:	SHEET NO.	OF	SHEETS	STA.	 TO STA.	

F.A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
330	128 RS-4	LAKE	23	2
		CONTRACT	NO.	
	71.1 11010 550 4	ID DOO IFOT		

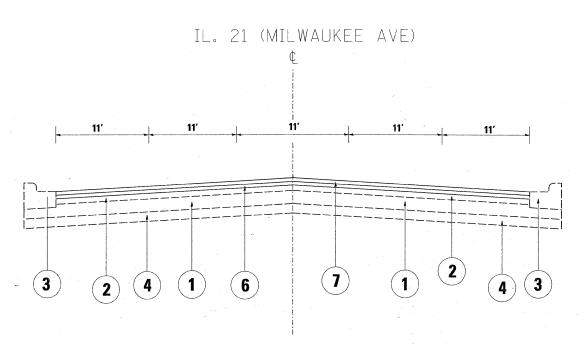
	SUMMARY OF QUANTITIES		URBAN	. [CONS	TRUCTION	TYPE COD	E: URBAN	I000-2A		SUMMARY OF QUANTI	ITIFS		URBAN			TRUCTION	TYPE COD	E: URBAN	I000-2A
	JOMINAL OF ADMITTED	1	1001 STATE	I000	Y025						JONNIANT OF GOARTS		1	100/.STATE TOTAL	1000	4025			# 1	
CODE NO	ITEM	UNIT	QUANTITIES	S						CODE NO	ITEM		UNIT	QUANTITIES						
	,				-															
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	17	17						X 78000650	THERMOPLASTIC PAVEMENT MA	ARK ING	FOOT	417	417					
40600300	AGGREGATE (PRIME COAT)	TON	84	84						× 78100100	RAISED REFLECTIVE PAVEMEN	NT MADVED	EACH	581	581					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	13	13			:			78300200	RAISED REFLECTIVE PAVEMEN		EACH	581	581		·			
40600895	CONSTRUCTING TEST STRIP	EACH	2	2							REMOVAL	_	5007	1515	1515					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	240	240						¥ 88600600	DETECTOR LOOP REPLACEMENT	e de la companya de La companya de la co	FOOT	1616	1616		,			
42227740	JOINT	-1.1	7507	7445.0						X0322256	TEMPORARY INFORMATION SIG		SO FT	51.4	51. 4	E 2	,			
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3527	3416.2	110.8					X4067107	POLYMERIZED LEVELING BING METHOD), IL-4.75, N50	DER (MACHINE	TON	1654	1602	52				
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	41988	40668.9	1319.1					Z0048665	RAILROAD PROTECTIVE LIAB	ILITY INSURANCE	L SUM	1	1					
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	175	175																-
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	30	30																
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	350	350																
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	100	100										-						
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	220	220		,														
60300105	FRAMES AND GRATES TO BE ADJUSTED .	EACH	6	6	1	,														
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	70	70	:			,						1			· .			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2		-						· · · · · · · · · · · · · · · · · · ·								
67100100	MOBILIZATION	L SUM	1	1																·
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1						-								-			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	. 1										:						
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	7211	7211																
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	753	753																
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	33154	33154													-			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2483	2483																
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	811	811							*Specialty	ltems				÷,				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	395	395																
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	753	753																
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	33154	33154																
78000400		FOOT	2483	2483	-					-									·	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	811	811																
FILE NAME =	USER NAME = estImoblek DE	SIGNED -	1	REVISED) -		<u> </u>								<u></u>	F.A.P RTE.		CTION	COUNTY	TOTAL SHEE'SHEETS NO.
1	ESTIMABLEK\dms88969\sh_rdwy.den DR	AWN -		REVISED) –					FILLINOIS		SIIMMAR	Y OF QUAN	ITIES		330	128	RS-4	LAKE	23 3
		IECKED -		REVISED REVISED			1	DEPARTI	VIENT OF	TRANSPORT	ATION SCALE:		SHEETS ST		TO STA.	EED	POAD DIST NO 1	ILLINOIS FED.		T NO. 60F30



EXIST. TYPICAL SECTION

IL. 21

STA. 18+00 TO 72+00



PROP. TYPICAL SECTION

IL. 21 STA. 18+00 TO 72+00

LEGEND

- EXISTING PCC BASE COURSE, ± 7"
- (2) EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 3"
- (3) EXISTING COMB. CURB AND GUTTER
- 4 EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- 5 PROP. HMA SURFACE REMOVAL, 2 1/4"
- PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (7) PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"

MIXTURE REQUIREMENTS MIXTURE USES AC TYPE VOIDS HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) PG 64-22 4% AT 70 GYR. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 SBS/SBR PG 76-28/-22 4% AT 50 GYR. CLASS D PATCHES (HMA BINDER IL-19 mm) PG 64-22 * 4% AT 70 GYR.

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQ YD/IN

* NOTE 2: WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

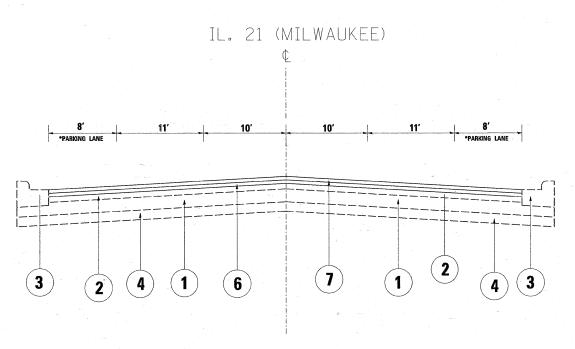
NOTE:

THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

FILE NAME =	USER NAME = estimablek	DESIGNED -	REVISED -		II 21 (MII	LWAUKEE AVE.) [IL. 137 (BU	CKIEV RD \ TO	CHURCH ST1	F.A.P.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\PWIDOT\ESTIMABLEK\dms88969\s	h_rdwy.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	· •	EXISTING AND PROPOSED	•	-	330	128 RS-4	LAKE	23 4
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	<u>'</u>	EXISTING AND PROPUSED	ITPICAL SECT	IUNS			CONTRAC	T NO. 60D30
	PLOT DATE = 3/19/2009	DATE -	REVISED -		SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.			ILLINOIS FED.	AID PROJECT			

8' 11' 10' 10' 11' 8' PARKING LANE TOTAL EXIST. HMA THICKNES, ±5 1/4" 2 3 1 5 2 4 3

IL. 21
STA. 05+90 TO 18+00



PROP. TYPICAL SECTION

IL. 21 STA. 05+90 TO 18+00

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

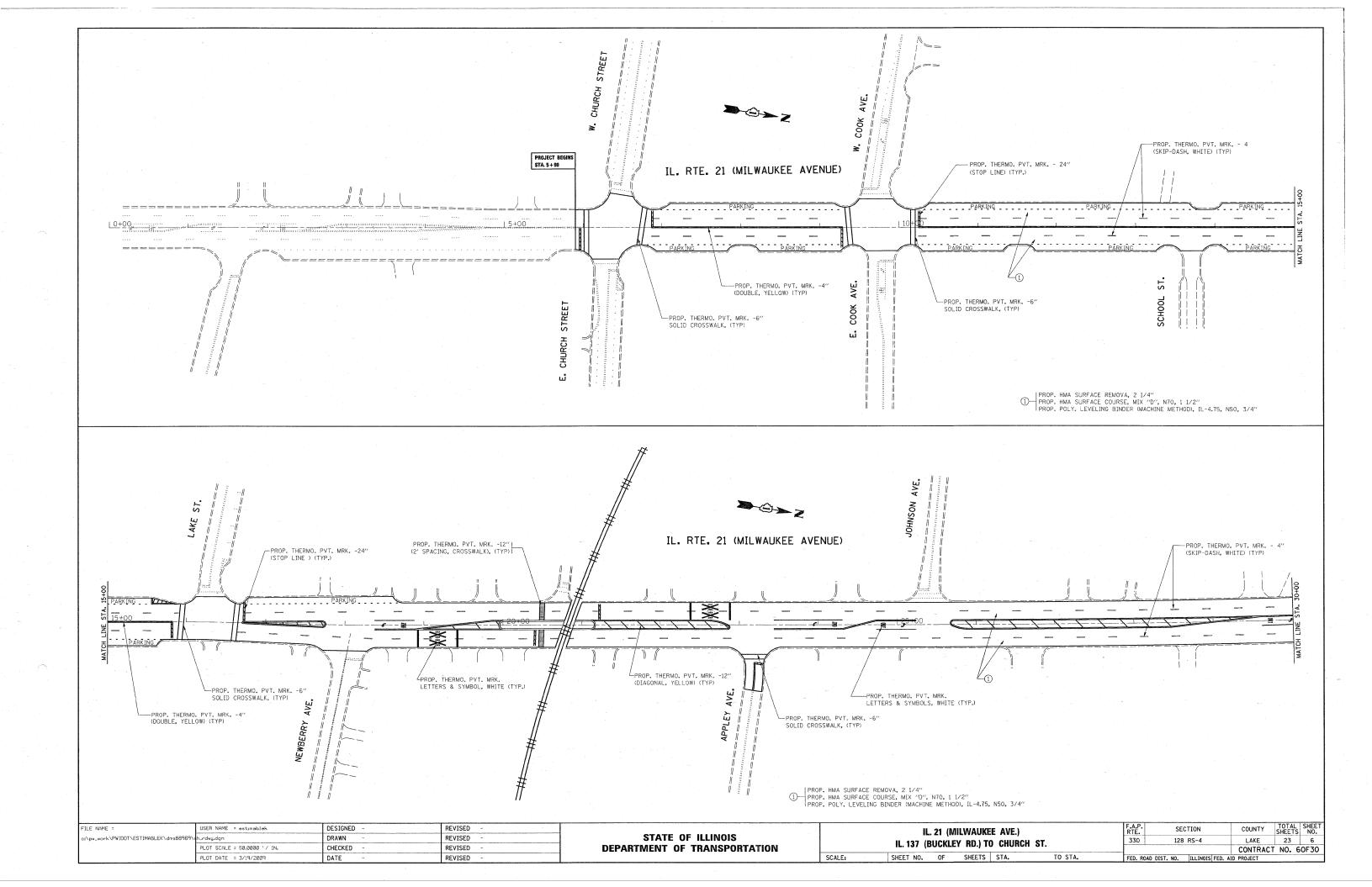
IL. 21 (MILWAUKEE AVE.) [IL. 137 (BUCKLEY RD.) TO CHURCH ST.] EXISTING AND PROPOSED TYPICAL SECTIONS LE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

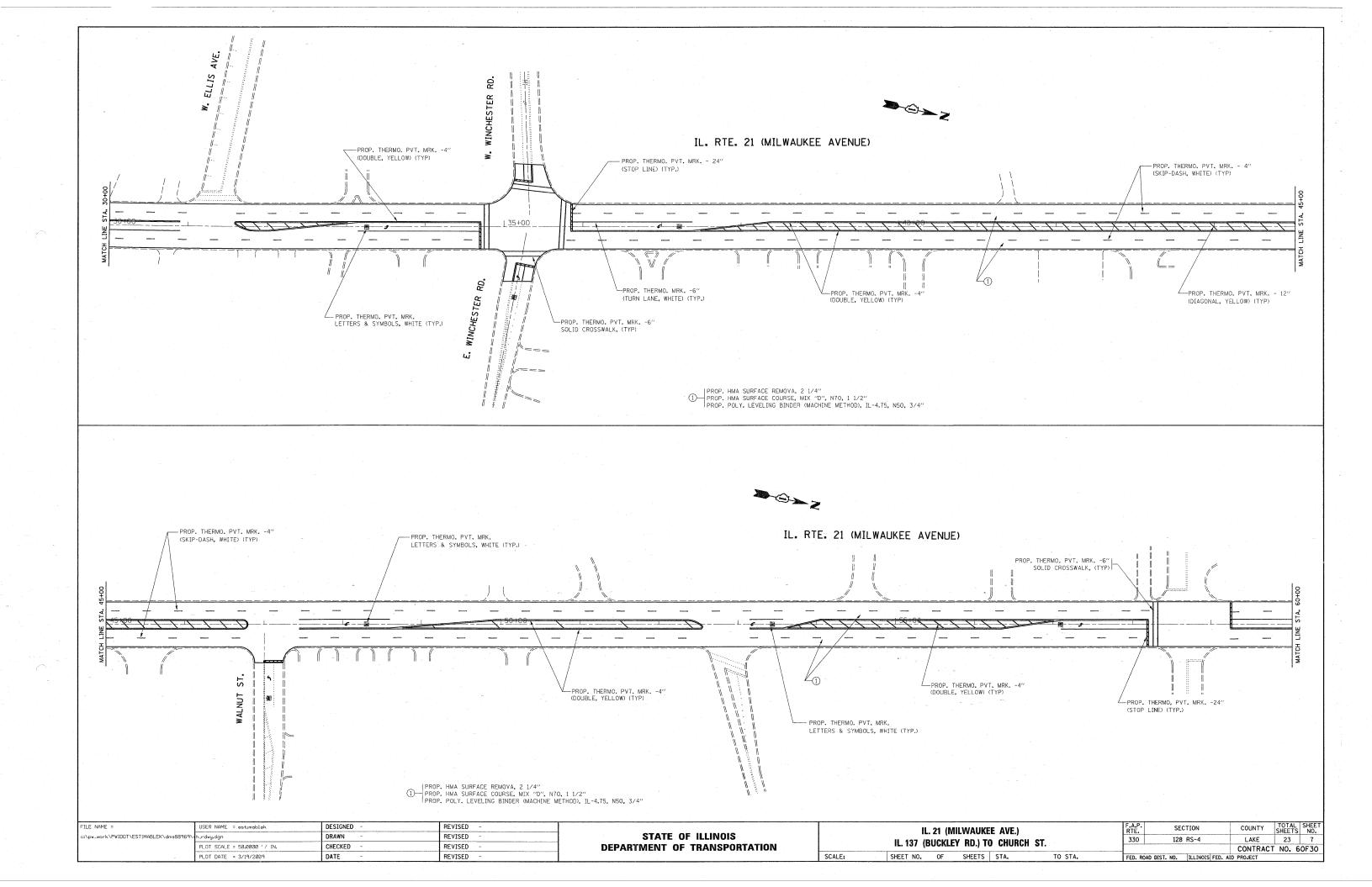
LEGEND

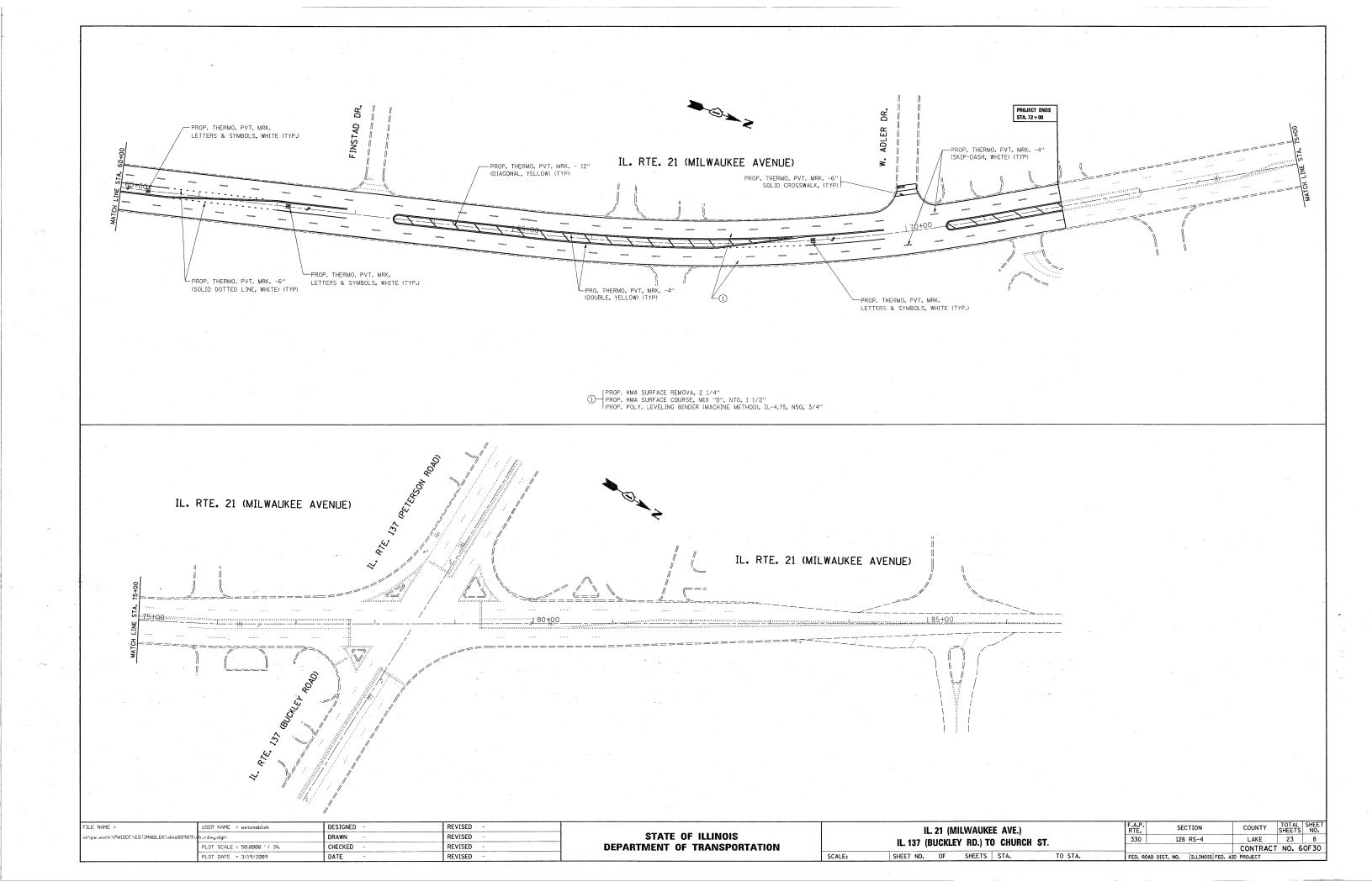
- 1) EXISTING PCC BASE COURSE, ± 7"
- 2 EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 2 3/4"
- (3) EXISTING COMB. CURB AND GUTTER
- 4 EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- (5) PROP. HMA SURFACE REMOVAL, 2 1/4"
- (6) PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (7) PROP. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"

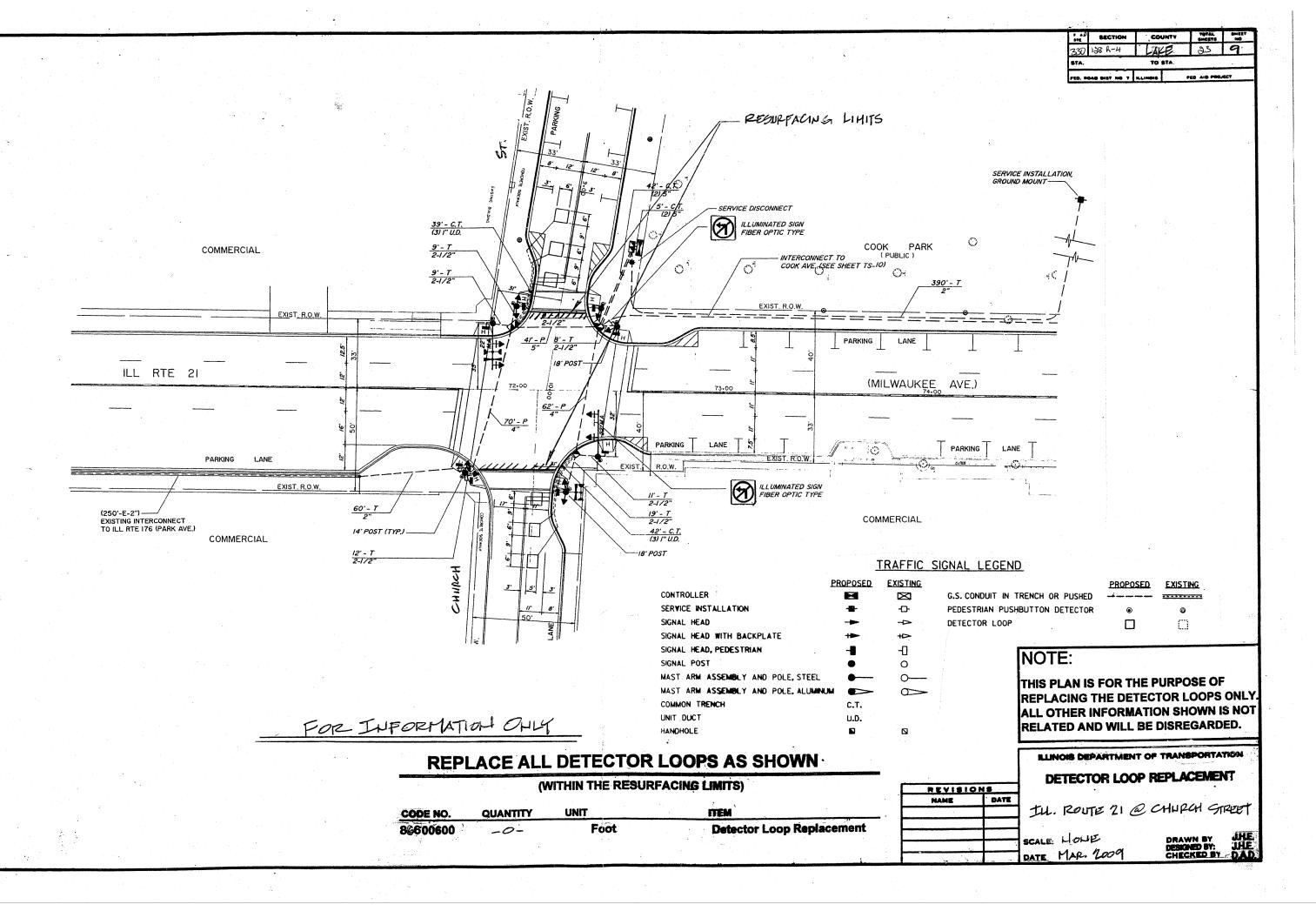
NOTE:

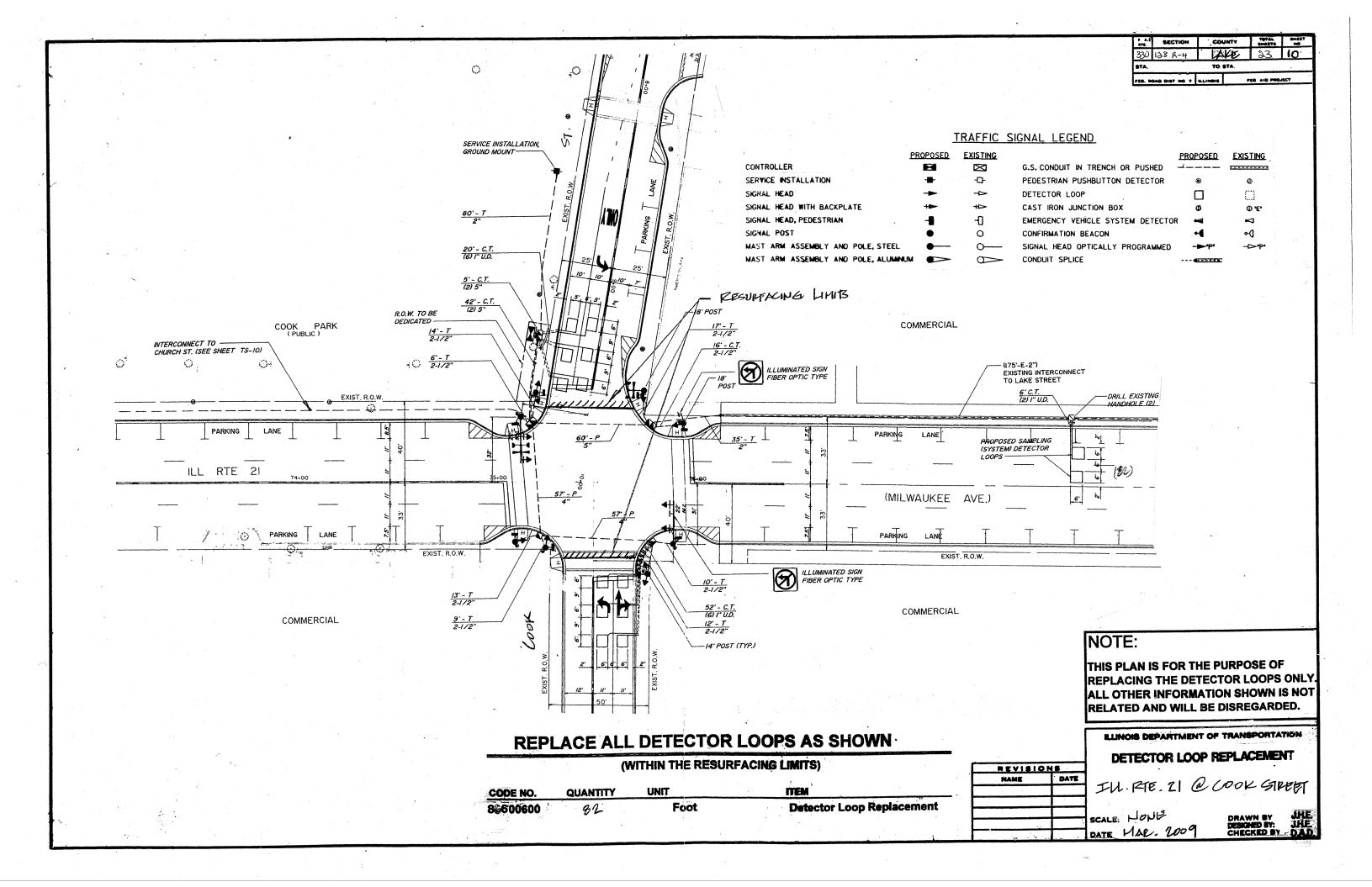
THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING *PARKING SPACE ON THE RIGHT STA. 5+90 TO STA. 15+62 ON THE LEFT STA. 5+90 TO STA. 18+00

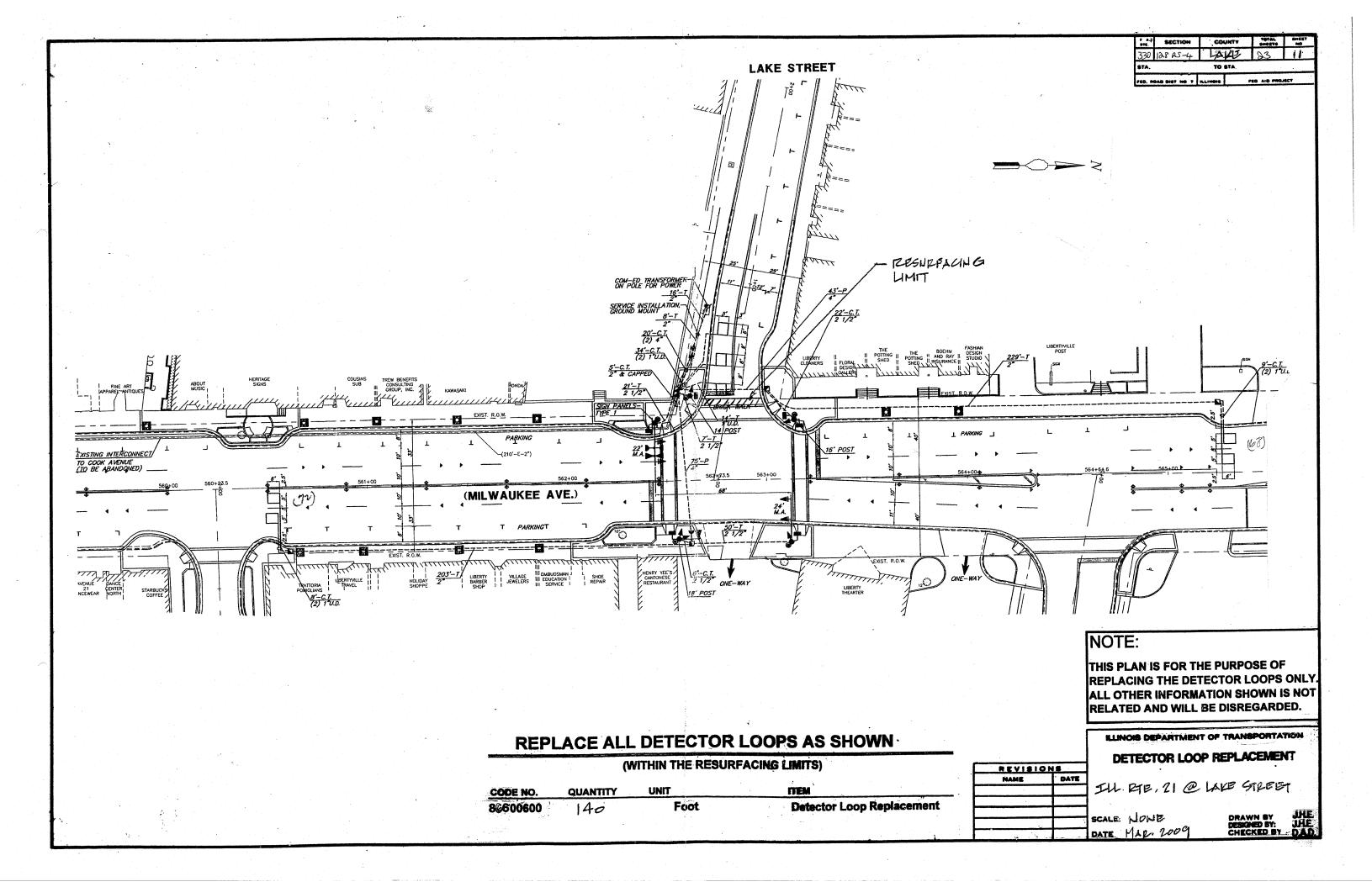


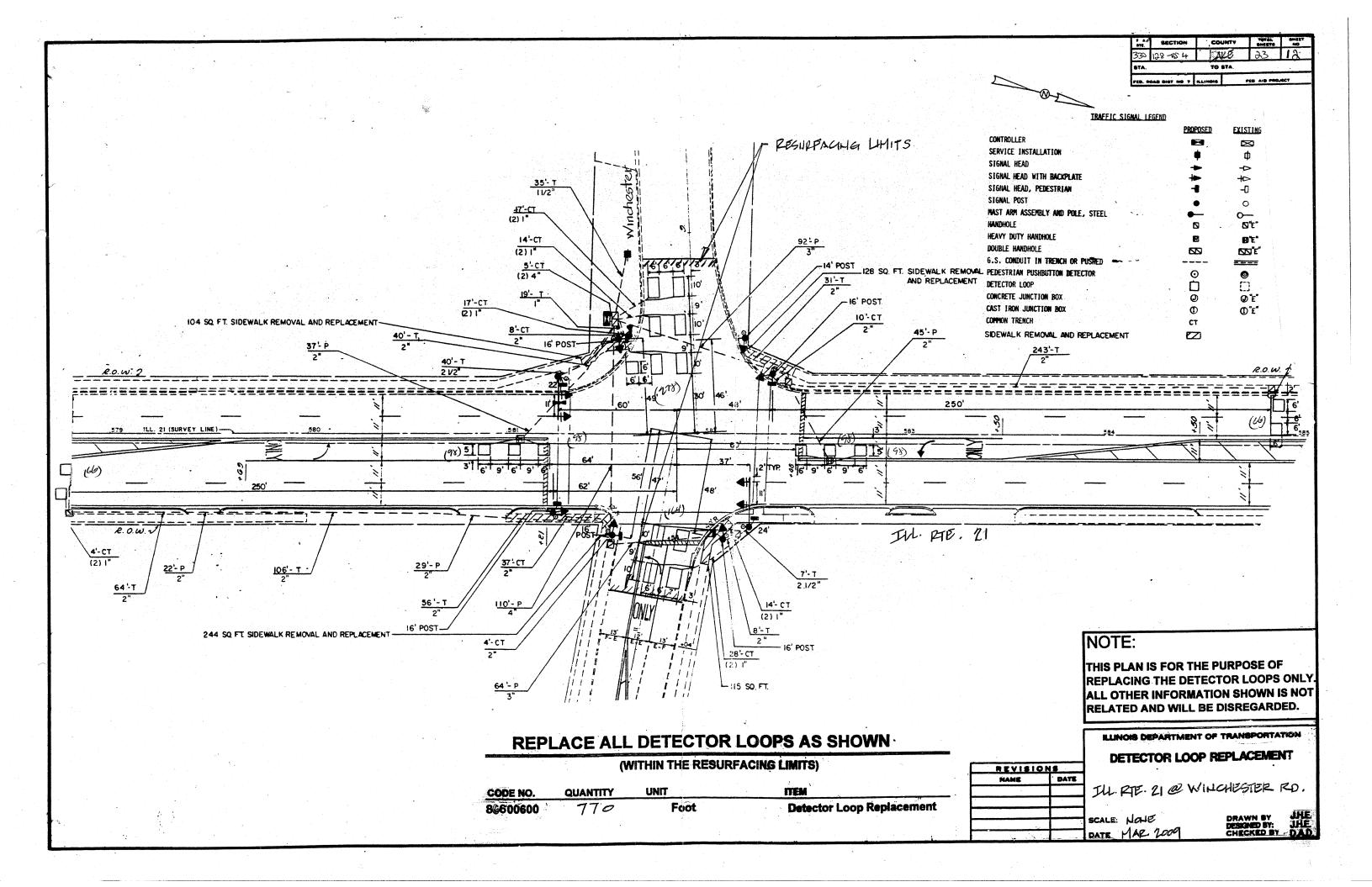


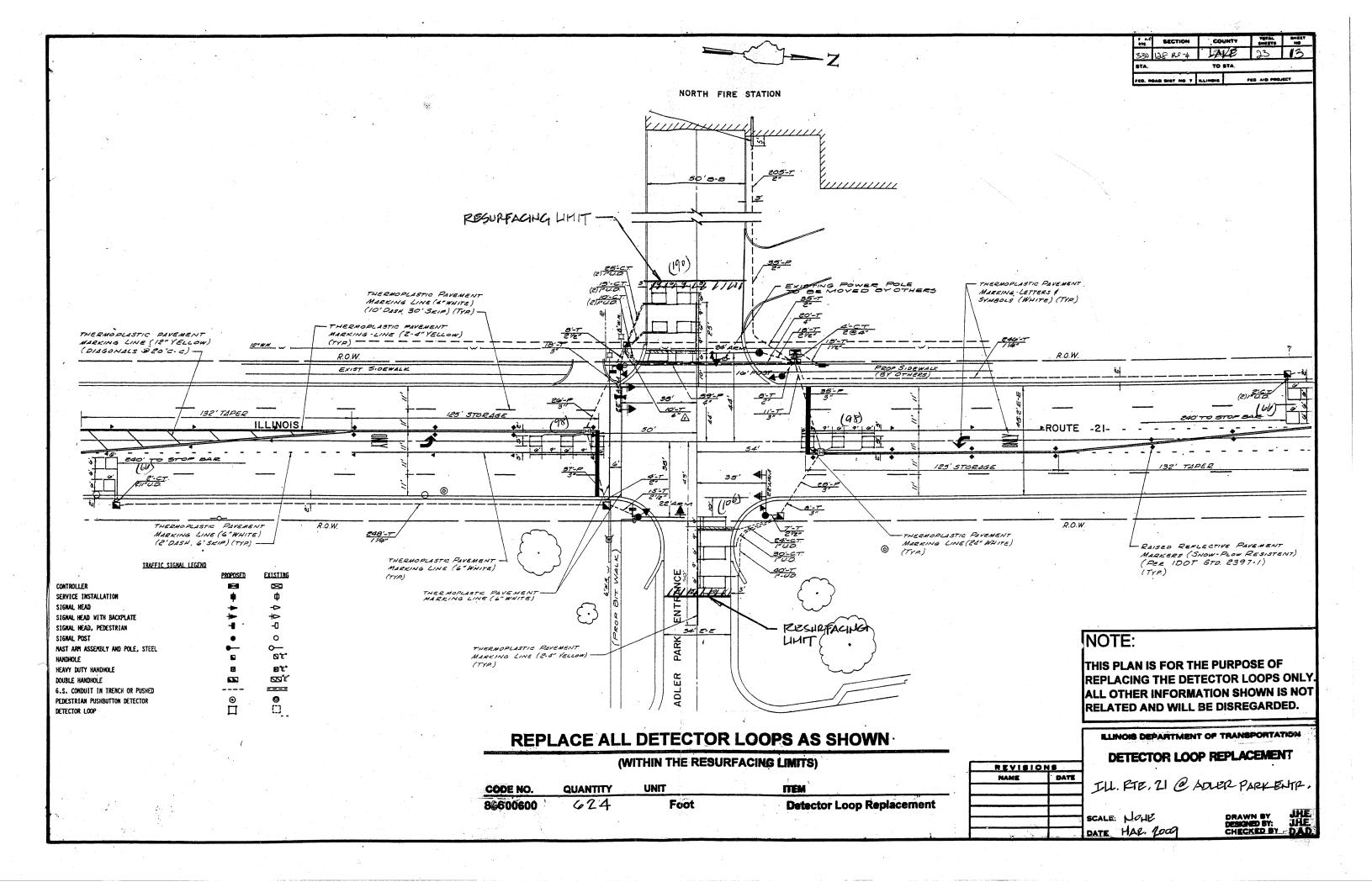


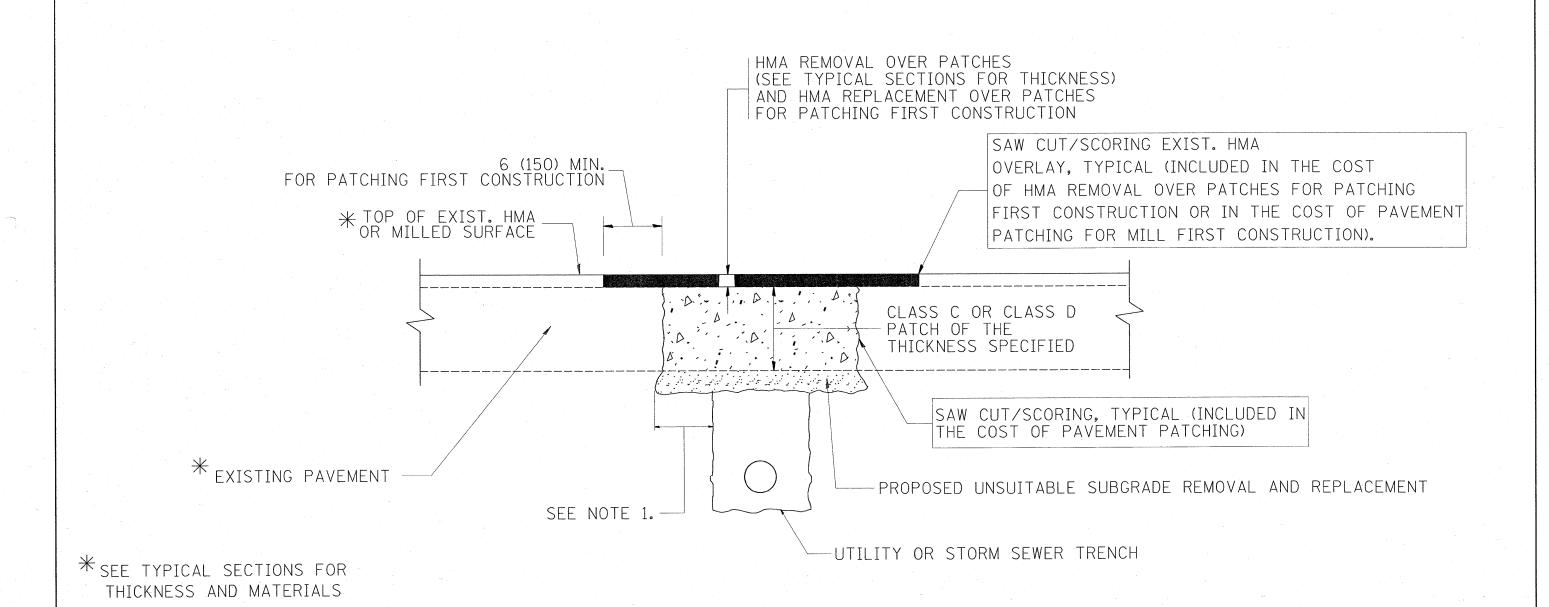












NOTES:

- 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)

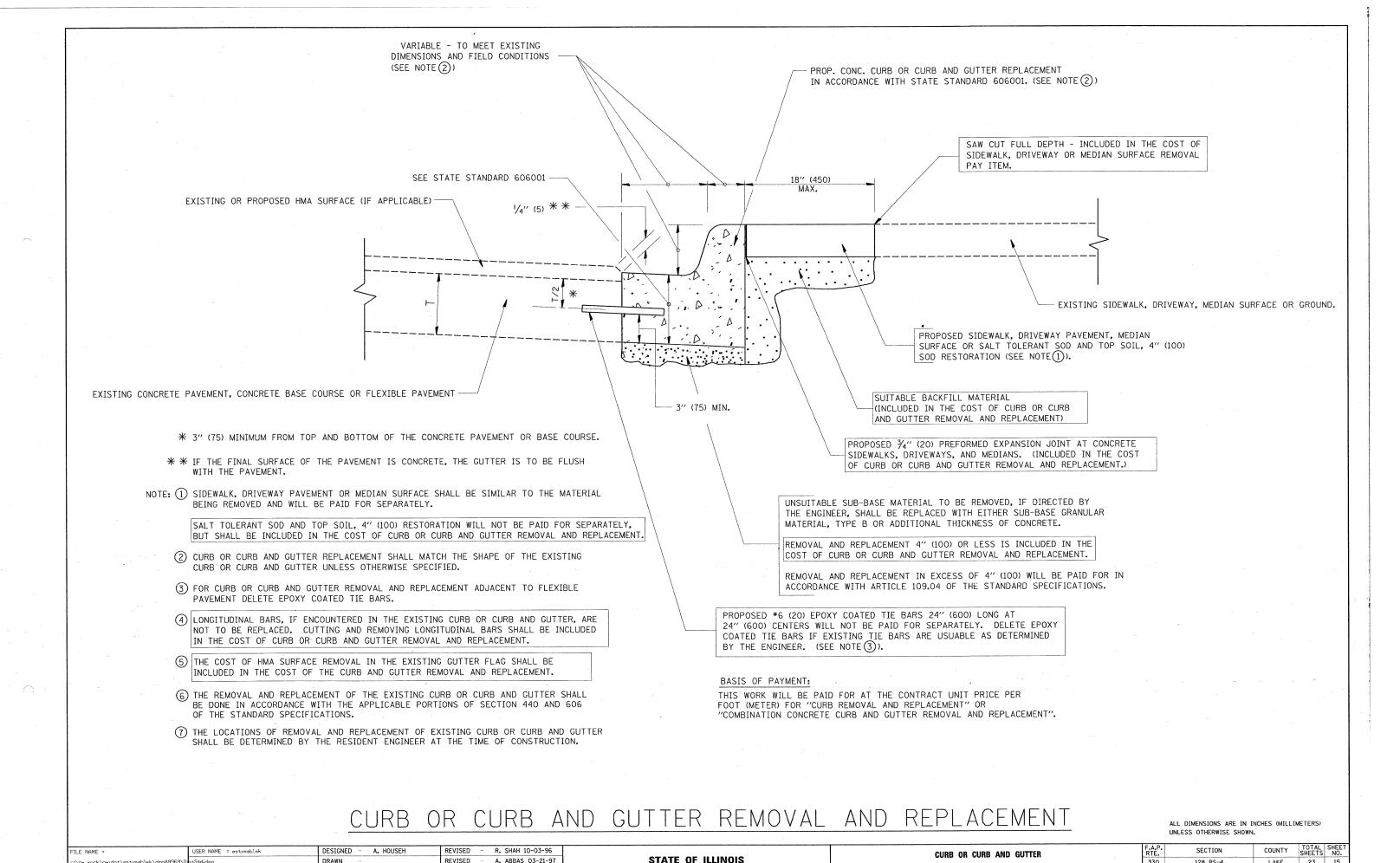
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

	ILE NAME =	USER NAME = estimoblek	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	RTE. SECTION	COUNTY TOTAL SHEET NO.
	:\pw_work\pwidot\estimablek\dms88969\D:	stStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS	HMA SURFACED PAVEMENT	330 128 RS-4	LAKE 23 14
•		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		BD400-04 (BD-22) FED. ROAD DIST. NO. 1 ILLINOIS FED. A	CONTRACT NO. 60F30
ŀ		PLOT DATE = 3/18/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	PEU. ROAD DIST. NO. 1 ILLINOIS FEU. A	AID PROJECT



DEPARTMENT OF TRANSPORTATION

PLOT SCALE = 50.0000 '/ IN

DATE

03-11-94

PLOT DATE = 3/18/2009

REVISED

REVISED

M. GOMEZ 01-22-01

R. BORO 01-01-07

REMOVAL AND REPLACEMENT

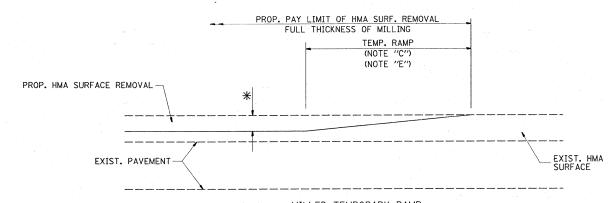
TO STA.

SHEET NO. 1 OF 1 SHEETS STA.

SCALE: NONE

CONTRACT NO. 60F30

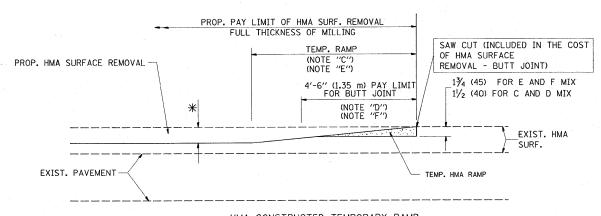
BD600-06 (BD-24)



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

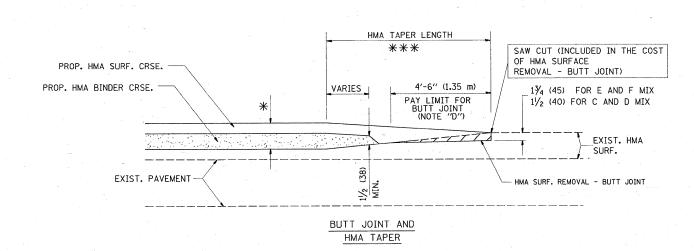


HMA CONSTRUCTED TEMPORARY RAMP

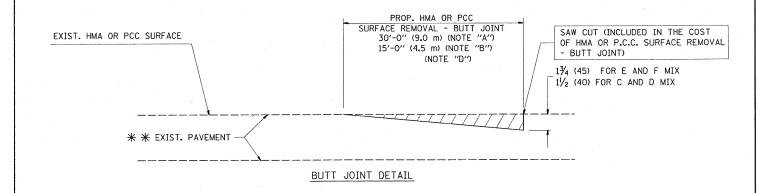
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

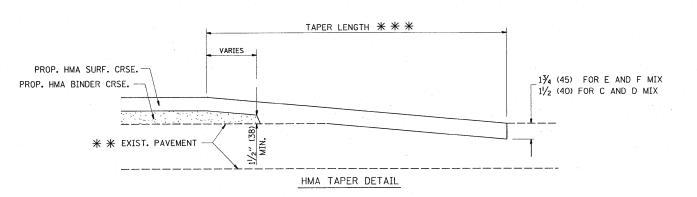
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP, RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

FILE NAME DESIGNED -M. DE YONG - R. SHAH 10-25-94 DRAWN REVISED - A. ABBAS 03-21-97 CHECKED REVISED PLOT SCALE = 50,0000 '/ IN. - R. BORO 01-01-07 PLOT DATE = 3/18/2009 DATE 06-13-90 REVISED

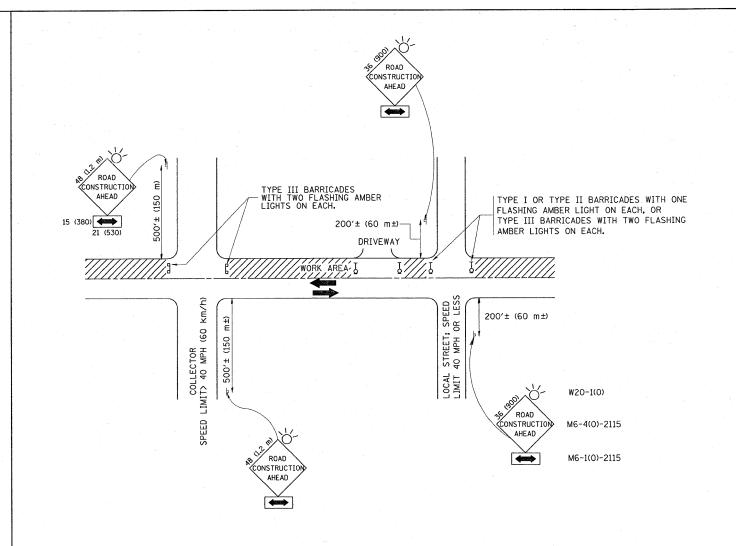
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	BUTT JOINT	AND		F.A.P.	· SE	CTION
	HMA TAPER D	ETAHC		330	128	RS-4
	HIVIA TAPER D	LIAILO			BD400-05	BD32
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED.	ROAD DIST. NO.	ILLINOIS

OTHERWISE SHOWN. COUNTY TOTAL SHEET NO.

LAKE 23 16

CONTRACT NO. 60F30



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:
- 0) ONE ROAD CONSTRUCTION AHEAD SIGN 36×36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

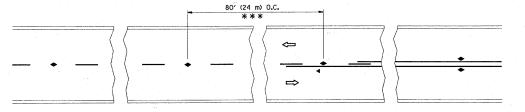
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

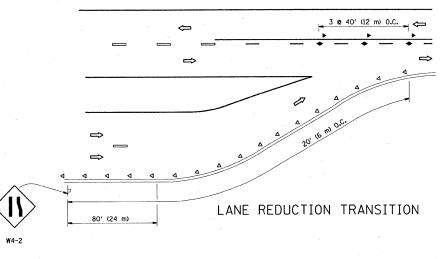
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

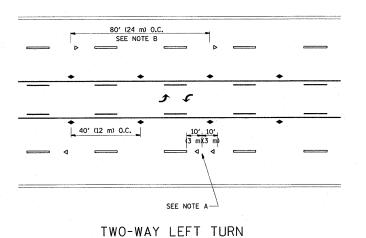
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. T



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

TWO-LANE/TWO-WAY





80' (24 m) 0.C.

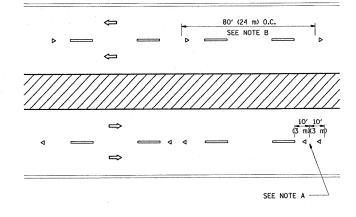
SEE NOTE 8

40' (12 m) 0.C.

G m)(3 m)

SEE NOTE A

MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

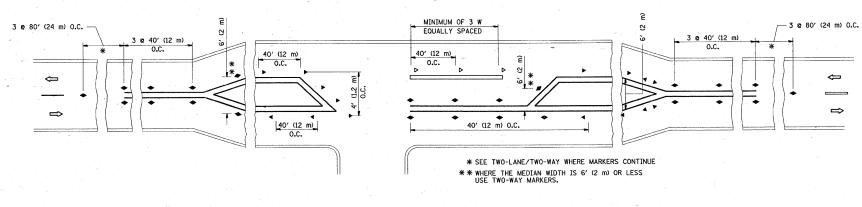
---- YELLOW STRIPE

WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- TWO-WAY AMBER MARKER

DESIGN NOTES

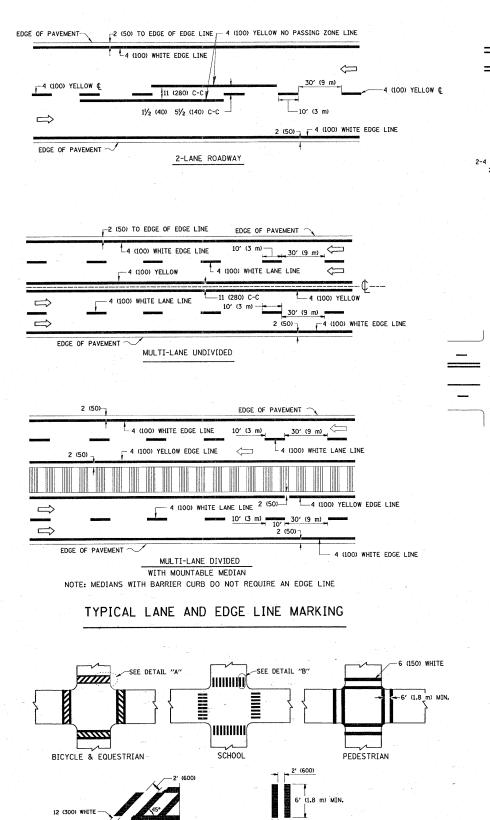
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS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



LEFT TURN

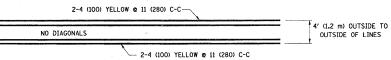
All dimensions are in inches (millimeters) unless otherwise shown.

ľ	FILE NAME =	USER NAME = estimablek	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS	F.A.P. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	c:\pw_work\pwidot\estimoblek\dms88969\D:	stStd.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99		RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		128 RS-4	LAKE	23	18
		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION			TC-11	CONTRACT	T NO. 60	F30
l		PLOT DATE = 3/18/2009	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

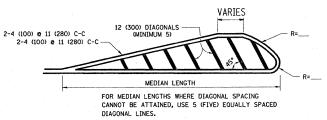


TYPICAL CROSSWALK MARKING

DETAIL "A"

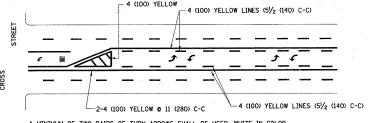


4' (1.2 m) WIDE MEDIANS ONLY

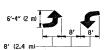


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

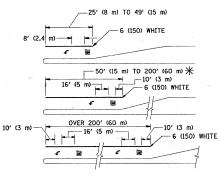


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

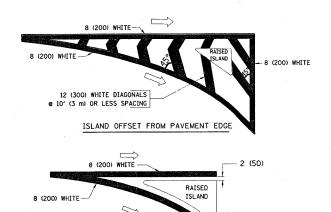


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) \P AREA = 20.8 SQ. FT. (1.9 m²)

* 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

ISLAND AT PAVEMENT EDGE

2 (50)

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 UNDIVEDED 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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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 PRESENT. OTHERWINS, 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	DIACONALS: 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 (0VER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"-3.6 SQ. FT. (0.33 m ²) EACH "X"-54.0 SQ. FT. (5.0 m ²)
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) TO 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.

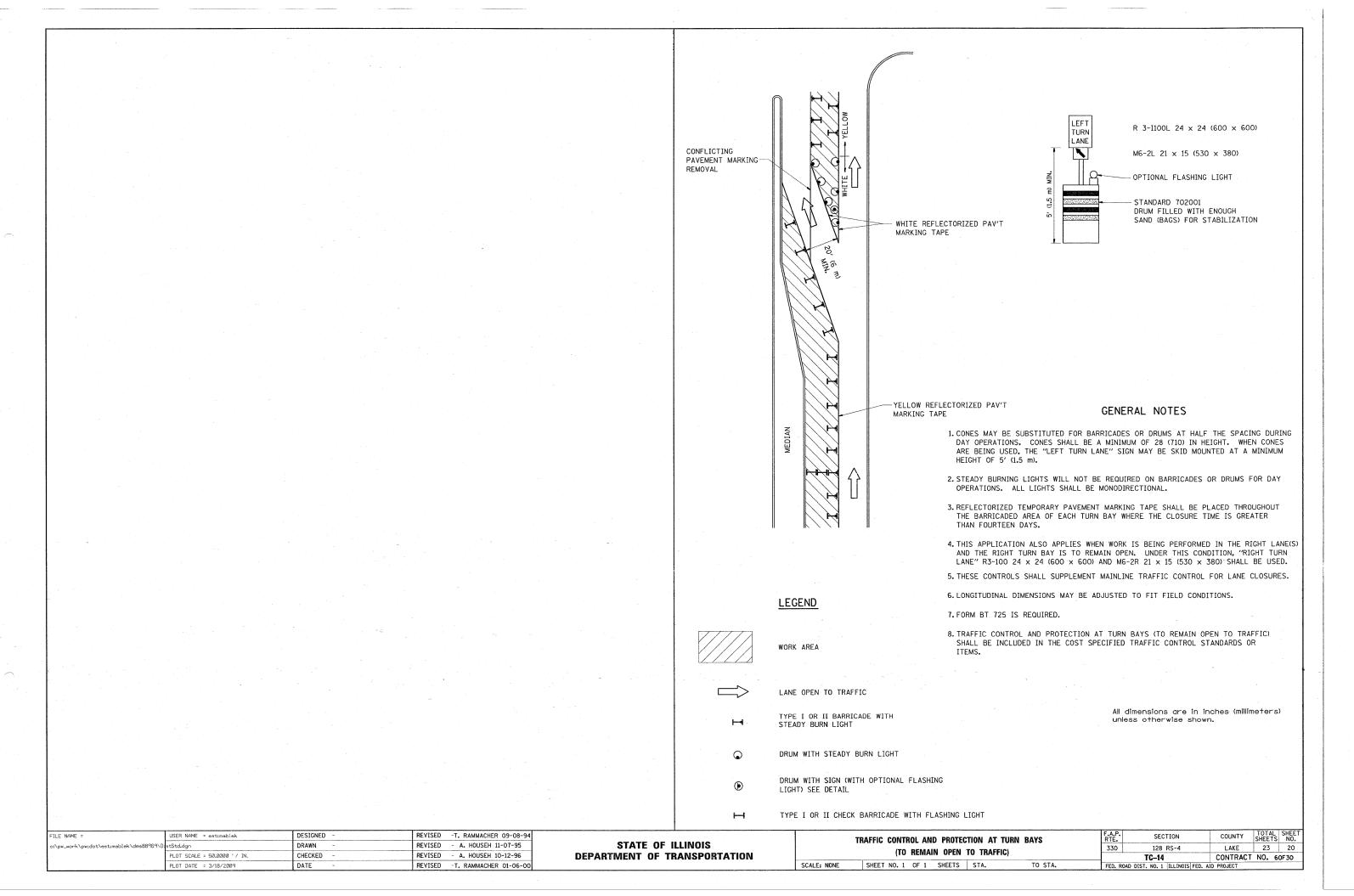
All dimensions are in inches (millimeters) unless otherwise shown.

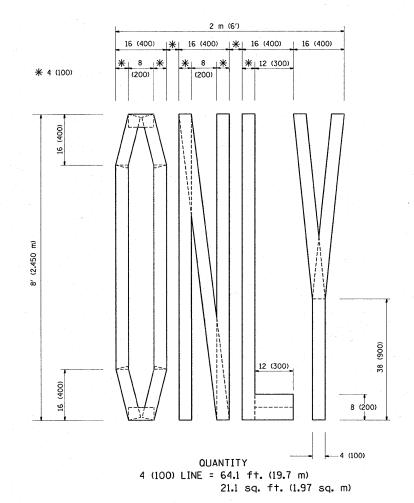
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FILE NAME =	USER NAME = estimablek	DESIGNED - EVERS	REVISED	-T. RAMMACHER 10-27-94
o:\pw_work\pwidot\estimablek\dms88969\D	stStd.dgn	DRAWN -	REVISED	~A. HOUSEH 10-09-96
-	PLDT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED	~A. HOUSEH 10-17-96
	PLDT DATE = 3/18/2009	DATE - 03-19-90	REVISED	-T. RAMMACHER 01-06-00

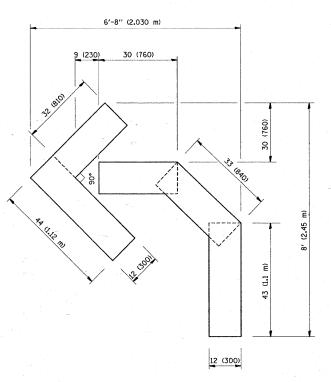
-12 (300) WHITE

STATE	E OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

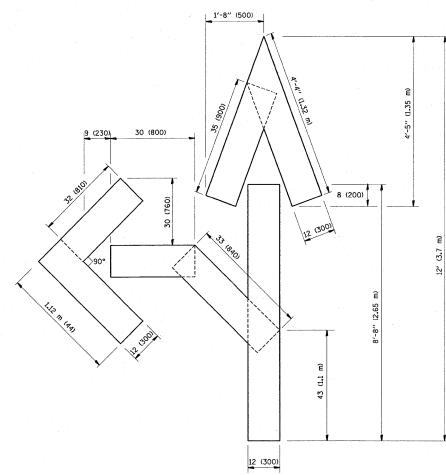
			DI	STRICT ON	VE.		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
١		TVD	CAL DA	AVERGENT	MARKINGS		330	128 RS-4	LAKE	23	19
ı		ITTI	UAL PA	AAEIMEIAI	WANKINGS			TC-13	CONTRACT	NO. 6	0F30
ļ	SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		







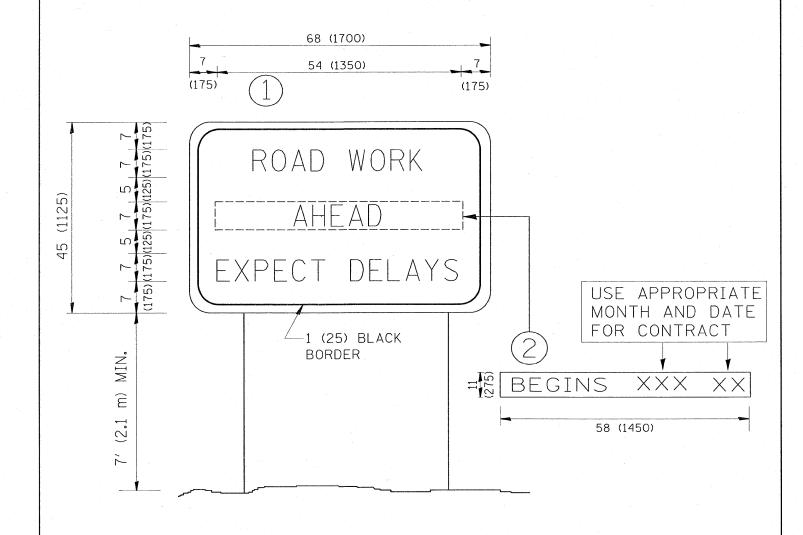
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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.

Ī	TILE NAME =	USER NAME = estimablek	DESIGNED -	REVISED -T. RAMMACHER 06-05-96			PAVEMENT MARKING LETTER	S AND SYMBOLS	F.A.P.	SECTION	COUNTY	TOTAL SH	IEET
	c:\pw_work\pwidot\estimablek\dms88969\Di	stStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS				330	128 RS-4	LAKE	23	21
		PLOT SCALE = 50.0000 '/ IN.	CHECKED ~	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION		FOR TRAFFIC STA	GING			CONTRAC	CT NO. 60F.	30
- 1		PLOT DATE = 3/18/2009	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A			



NOTES:

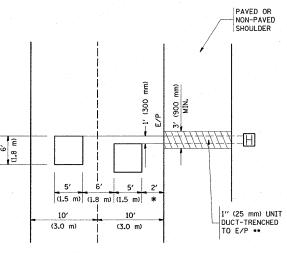
- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2 SOON AFTER THE START 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 = estimablek	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.P. SECTION	COUNTY TOTAL SHEET NO.
c:\pw_work\pwidot\estimablek\dms88969\D	JistStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN	330 128 RS-4	LAKE 23 22
	PLOT SCALE = 50.00000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	***************************************	TC-22	CONTRACT NO. 60F30
	PLOT DATE = 3/18/2009	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED	D. AID PROJECT

LOOPS NEXT TO SHOULDERS

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



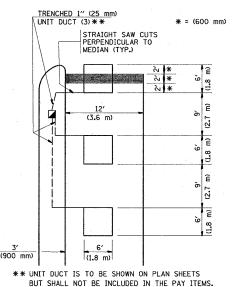
** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

* = (600 mm)

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

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

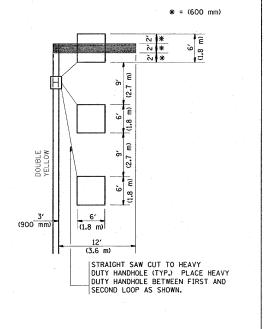


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



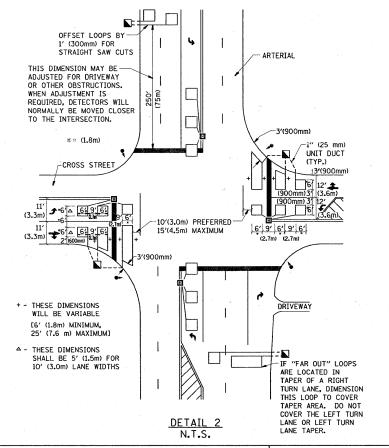
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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

ARTERIAL DO NOT INSTALL CALLING LOOP IN RIGHT TURN LANE. * = (1.8m) CROSS STREET 10' (3.0m) OR CLOSER CALLING LOOPS (600mm) [TYP.-12' (3.6m) LANES] LOOPS ARE SAW-CUT TO THE EDGE OF 250'(75m) [TYP.-ALL LEGS-VOLUME DENSITY ("FAR OUT" DETECTION)] PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN STRAIGHT SAW EDGE OF PAVEMENT CUTS TO HEAVY-AND HANDHOLE. (TYP. FOR LOOPS IOFF SET LOOPS BY IN PAVEMENT THAT TERMINATE STRAIGHT SAW CUTS. IN HANDHOLES OUTSIDE PAVEMENT) П

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



NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON 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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FILE NAME = .	USER NAME = estimablek	DESIGNED -	REVISED -
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 3/18/2009	DATE -	REVISED -

DETAIL 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIS	TRICT	ſ 1 –	DET	ECTOR L	OOP INSTALLATIO	N	
	DET	AILS	FOR	ROADW	AY RESURFACING		
CHEET	NO 1	٥٢	1	CHEETE	CTA	TO	CTA

	EED B	OAD DIST NO 1 THE INOIS FED	ATO PROJECT		
_		TS-07	CONTRACT	NO. 6	0F30
	330	128 RS-4	LAKE	23	23
	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.