STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 3520 (RIDGE RD.) WILMETTE AVE. TO WINNETKA RD. **SECTION: 2005-010RS** RESURFACING (3P)

> **COOK COUNTY** C-91-160-05

TRAFFIC DATA: 2006 ADT - 14,400 SPEED LIMIT - 30 MPH

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGES OF WILMETTE, KENILWORTH AND WINNETKA

0

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT MANAGER: KEN ENG

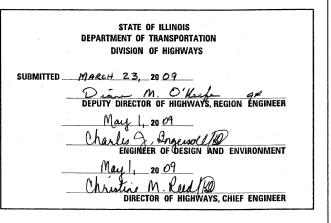
PROJECT ENDS STA: 43+39 R 13 E STATION EQUATION STA. 37+62 (BACK)= STA. 0+05 (AHEAD) OMISSION STA. 20+03 TO STA 28+22 PROJECT BEGINS STA. 0+95

GROSS LENGTH = 8,001 FT, = 1.52 MILES NET LENGTH = 7,182 FT, = 1.36 MILES

NEW TRIER TOWNSHIP

D-91-160-05





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JENPAI CHANG (847) 705-4432

CONTRACT NO. 62927

INDEX OF SHEETS

SHEET	NO	DESCRIPTION		
SILLI	110.	DESCRIPTION		
1	COVER SI	HEET		r
2		SHEETS, STATE STARL NOTES	randards	
3	SUMMARY	OF QUANTITIES		
4-	5 TYPICAL	SECTIONS		
6-8	8 ROADWAY PLANS	AND PAVEMENT MA	RKING	
9	DETECTOR	R LOOP REPLACEMEN	IT PLANS	
10		DETAIL - DISTANC EDGE GREATER THA		
11 		DETAILS - DISTAN OF CURB IS GREA		
12	DETAILS WITH MIL	FOR FRAMES & LID LING	S ADJUSTMENT	
13		T PATCHING FOR HM PAVEMENT	IA Property of the second seco	
14		CURB AND GUTTER ACEMENT	REMOVAL	
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18	TRAFFIC (TO REMA	CONTROL AND PROTAIN OPEN TO TRAFF	ECTION AT TURN	BAYS
19	DISTRICT	ONE TYPICAL PAV	EMENT MARKINGS	
20		T MARKING LETTERS		
21	ARTERIA	_ INFORMATION SIG	NING	
22		T ONE STANDARD TR DESIGN DETAILS	AFFIC	
23		ONE DETECTOR LO		1
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STANDARDS

	000001 <i>-05</i>	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
	442201- <i>03</i>	CLASS C AND D PATCHES
	604001 <i>-03</i>	FRAMES AND LIDS, TYPE 1
	604086- <i>02</i>	FRAMES AND GRATES, TYPE 23
	606001- <i>04</i>	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
	701301- <i>03</i>	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
	701311 - <i>03</i>	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
	701501- <i>05</i>	URBAN LANE CLOSURE, 2L 2W, UNDIVIDED
	701502- <i>0</i> 3	URBAN LANE CLOSURE, 2L 2W, WITH BIDIRECTIONAL LEFT TURN LANE
4 	701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
	701801- 04	LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
	701901-01	TRAFFIC CONTROL DEVICES
	780001- <i>0</i> 2	TYPICAL PAVEMENT MARKINGS
	÷	

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 HOURS NOTIFICATION REQUIRED).

10 FEET (3 METER) TRANSITIONS SHALL BE USED
TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN
ITEMS OF WORK TO EXISTING CURB AND GUTTERS AND
MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN.
THE TRANSITIONS SHALL BE PAID FOR AT THE
CONTRACT UNIT PRICE FOR THE PROPOSED: ITEMS
OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF WILMETTE, KENILWORTH AND WINNETKA.

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 45 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 OF THE 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 HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MR. WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL PAVEMENT PATCHING BEFORE MILLING OPERATIONS.

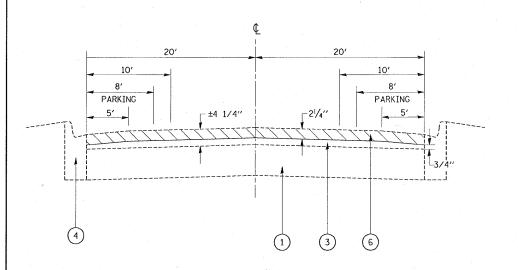
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

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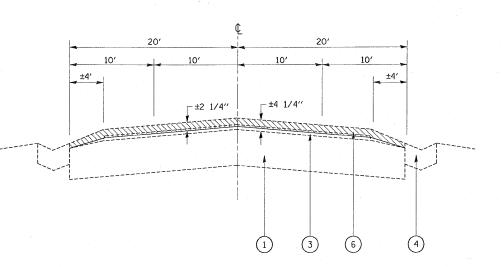
INDEX	RIDGE RD. (IETKA RD.) GENERAL NOTES	
	SHEET NO.	 SHEETS	 TO STA.	

F.A.U. RTE.	SECTION		COUNTY	TOTAL	SHEE NO.
3520	2005-010RS		COOK	23	2
			CONTRAC	T NO.	62927
	ILLINOIS	FED. AID	PROJECT		

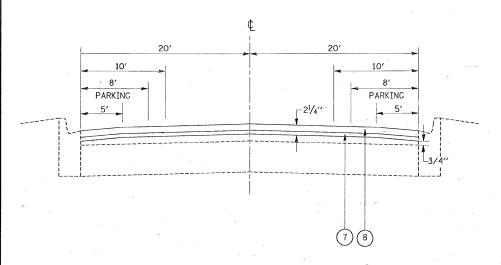
	SUMMARY OF QUANTITIES		URBAN				ION TYPE	CODE			SUMMARY OF QUANTITIES		URBAN			CONSTRUCT	ION TYPE	CODE	
	SOMMAN OF GOANTIFIES	T	100 / STATE		SFTY-1B	Y025	1				SOMMANT OF GUARTITIES		100% STATE TOTAL		SFTY-1B	Y025			
CODE NO	ITEM	UNIT	QUANTITIES	1000		_			9.7	CODE NO	ITEM	UNIT	QUANTITIE	S 1000				*	
20201006	GRADING AND SHAPING SHOULDERS	UNIT	3	3						60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	10	8	2				+
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	24	22		2				60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	50	39	11				
40600300	AGGREGATE (PRIME COAT)	TON	111	104		7				67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
40600400	MIXTURE FOR CRACKS, JOINTS,	TON	14	13		1				67100100	MOBILIZATION	L SUM	1	1					
40600895	AND FLANGEWAYS CONSTRUCTING TEST STRIP	EACH	1	1						70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	455	455						70100460	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	i		21 - Y			
	JOINT				-						STANDARD 701306			1					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	155	125	30					70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1					
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N7O	TON	2310	2175	c .	135				70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
42001300	PROTECTIVE COAT	SO YD	300	45	255					70300100	SHORT-TERM PAVEMENT MARKING	FOOT	860	860			**		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	400	. *	400	ž.				70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	190	190					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SO FT	2500			2500				70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	14450	14450					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	27445	25870		1575				70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1610	1610					,
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	505	505						70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	80	80		- million			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	400		400					70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	300	300					
44000600	SIDEWALK REMOVAL	SO FT	2500		2500					70300280	TEMPORARY PAVEMENT MARKING	FOOT	240	240					
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1000	200	800			ŀ			- LINE 24"								
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES,	SO YD	895	730	165					70301000 X 78000100	WORK ZONE PAVEMENT MARKING REMOVAL THERMOPLASTIC PAVEMENT MARKING	SO FT	290 190	190					
44201753	CLASS D PATCHES, TYPE II. 9 INCH	SO YD	85	70	15						- LETTERS AND SYMBOLS								
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	300	245	55					X 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	14450	14450				*	-
44201759	CLASS D PATCHES, TYPE IV. 9 INCH	SO YD	380	310	70					* 78000400	THERMOPLASTIC PAVEMENT MARKING	FOOT	1610	1610			: .		
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SO YD	30	30			:			X 78000500	- LINE 6" THERMOPLASTIC PAVEMENT MARKING	FOOT	80	80					
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SO YD	120	120						A 10000000	- LINE 8"	7001							
44201821	CLASS D PATCHES, TYPE IV. 14 INCH	SO YD	150	150						X 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	300	300					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	10	10						X 78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	240	240					
55039700	STORM SEWERS TO BE CLEANED	F00T	2600	2600							- LINE 24"			1					
60252800	CATCH BASINS TO BE RECONSTRUCTED MANHOLES TO BE ADJUSTED	EACH	5	5		e e				78100100	RAISED REFLECTIVE PAVEMENT MARKER RAISED REFLECTIVE PAVEMENT MARKER	EACH EACH	110	110					
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3						10300200	REMOVAL	ERCII							
60262700	INLETS TO BE RECONSTRUCTED	EACH	5	5						X 88600600	DETECTOR LOOP REPLACEMENT	FOOT	260	260	,				,
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	22	17	5					X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51. 4	1				
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	103	67	36					X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD). IL-4.75, N50	TON	1085	1020		65			
60404940	FRAMES AND GRATES, TYPE 23	EACH	22	20	2					Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	175	175					
FILE NAME =		SIGNED -	L	REVISED		L	<u> </u>				* SPECIALTY ITEMS		<u> </u>		F.A. RTÉ.	· SE	CTION	COUNTY	TOTAL SHEET SHEETS NO.
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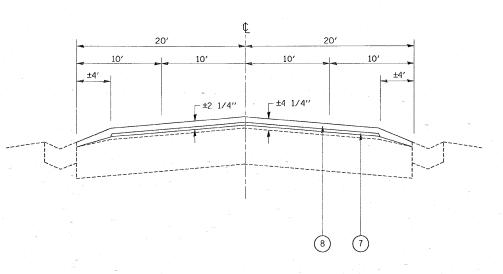
RIDGE ROAD
EXISTING TYPICAL SECTION
STA. 0+95 TO STA. 20+23



RIDGE ROAD
EXISTING TYPICAL SECTION
STA. 28+22 TO STA. 37+62 (BACK)



RIDGE ROAD
PROPOSED TYPICAL SECTION
STA. 0+95 TO STA. 20+23



RIDGE ROAD
PROPOSED TYPICAL SECTION
STA. 28+22 TO STA. 37+62 (BACK)

<u>LEGEND</u>

- 1) EXISTING P.C.C. PAVEMENT, ±9"
- (2) EXISTING BASE COURSE WIDENING, 9"
- 3 EXISTING HMA SURFACE
- (4) EXISTING COMB. CURB & GUTTER
- (5) EXISTING AGGREGATE SHOULDER
- 6 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- 7 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 8 PROPOSED HOT-MIX ASHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- 9 PROPOSED GRADING AND SHAPING SHOULDERS
 (LOCATIONS TO BE DETRMINED IN THE FIELD BY THE ENGINEER)
- (1) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE "B" (LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)

NOTE-PAVEMENT PATCHING SHALL BE DONE PRIOR TO ROADWAY MILLING UNLESS THERE IS 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING BASE COURSE. SEE DISTRICT DETAIL BD-22

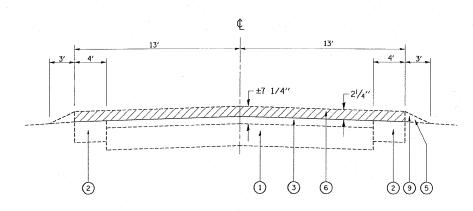
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE USE	AC TYPE	AIR VOIDS (%)
ROADWAY	POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50	SBS/SBR 76-28	4% @ 50 GYR
ROADWAT	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70 (IL-9.5mm)	PG 64-22	4% e 70 GYR
PATCHES	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (HMA BINDER IL-19.0 MM)	PG 64-22*	4% @ 70 GYR
PATCHES	CLASS D PATCHES, 9", 14" (HMA BINDER IL-19.0 MM)	PG 64-22*	4% @ 70 GYR

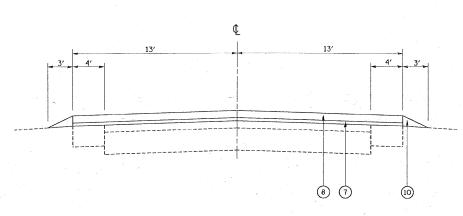
THE UNIT WEIGHT USED TO CALCULATE ALL HOT- MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

*WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

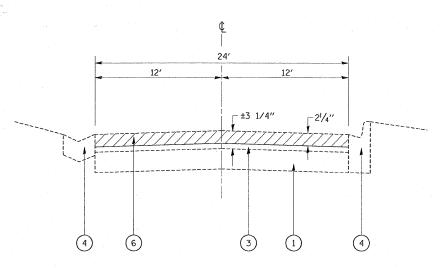
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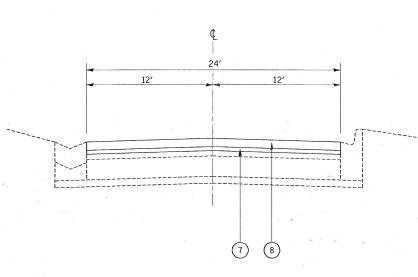
RIDGE ROAD
EXISTING TYPICAL SECTION
STA. 0+05 (AHEAD) TO STA. 35+13



RIDGE ROAD
PROPOSED TYPICAL SECTION
STA. 0+05 (AHEAD) TO STA. 35+13



RIDGE ROAD
EXISTING TYPICAL SECTION
STA. 35+13 TO STA. 43+39



RIDGE ROAD
MCLEAN AVE. TO WINNETKA ROAD
PROPOSED TYPICAL SECTION
STA. 35+13 TO STA. 43+39

LEGEND

- 1) EXISTING P.C.C. PAVEMENT, ±9"
- 2 EXISTING BASE COURSE WIDENING, 9"
- 3 EXISTING HMA SURFACE
- (4) EXISTING COMB. CURB & GUTTER
- (5) EXISTING AGGREGATE SHOULDER
- (6) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 8 PROPOSED HOT-MIX ASHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (9) PROPOSED GRADING AND SHAPING SHOULDERS (LOCATIONS TO BE DETRMINED IN THE FIELD BY THE ENGINEER)
- PROPOSED AGGREGATE WEDGE SHOULDER, TYPE "B" (LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)

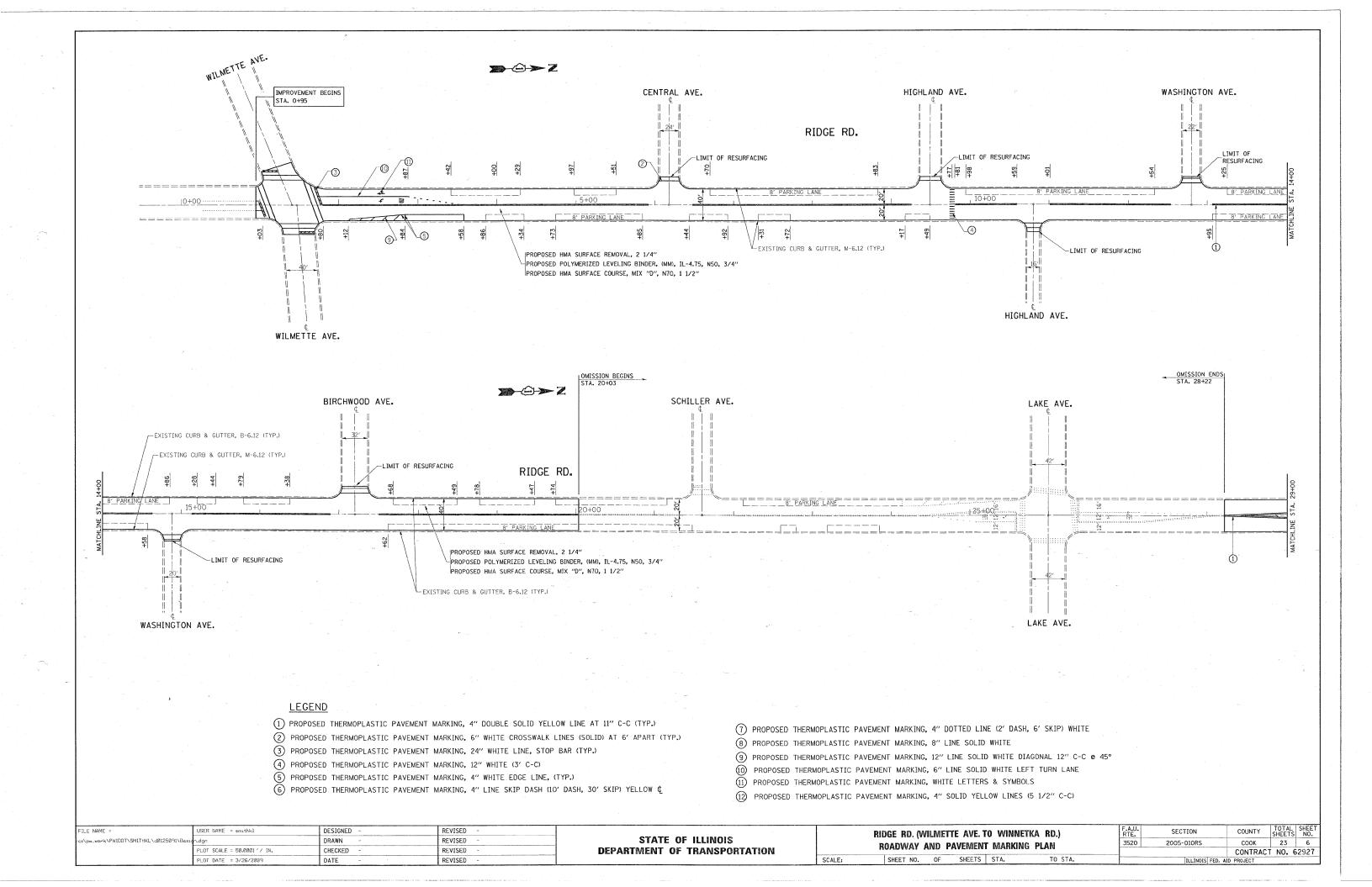
NOTE-PAVEMENT PATCHING SHALL BE DONE PRIOR TO ROADWAY MILLING UNLESS THERE IS 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING BASE COURSE, SEE DISTRICT DETAIL BD-22

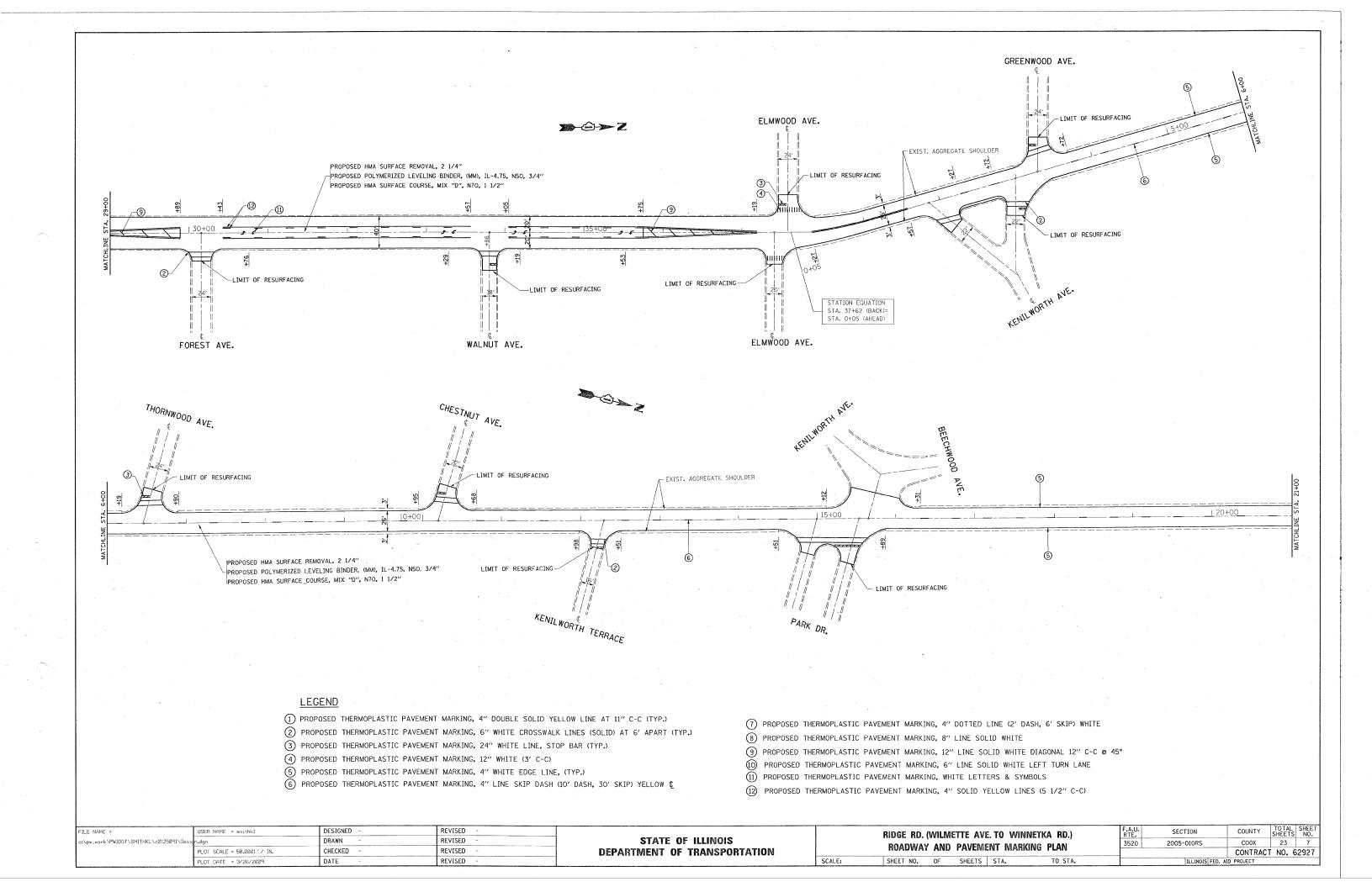
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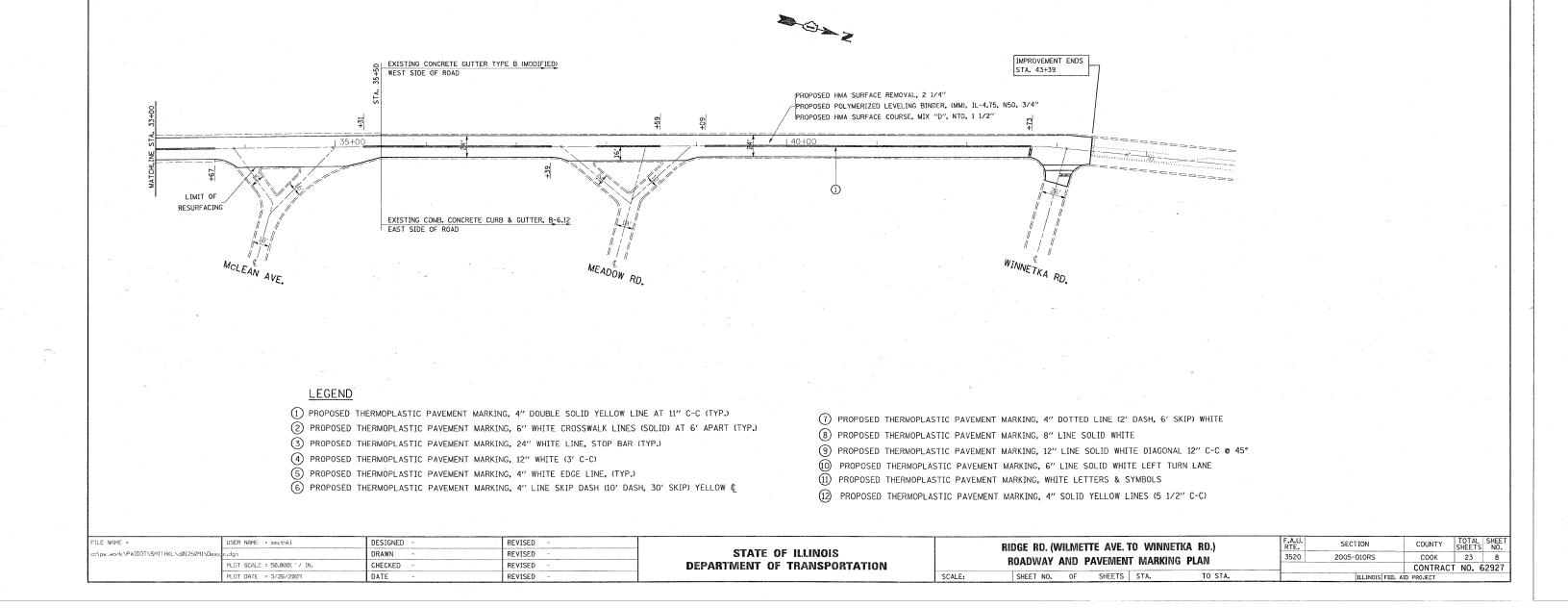
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RIL	GE	RD	. (Wil	METT	E AVE.	то	WINN	IETKA	RD.)
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520	2005-010RS	соок	23	5
		CONTRAC	T NO. 6	2927







-EXIST. AGGREGATE SHOULDER

LIMIT OF RESURFACING-

ROGER AVE.

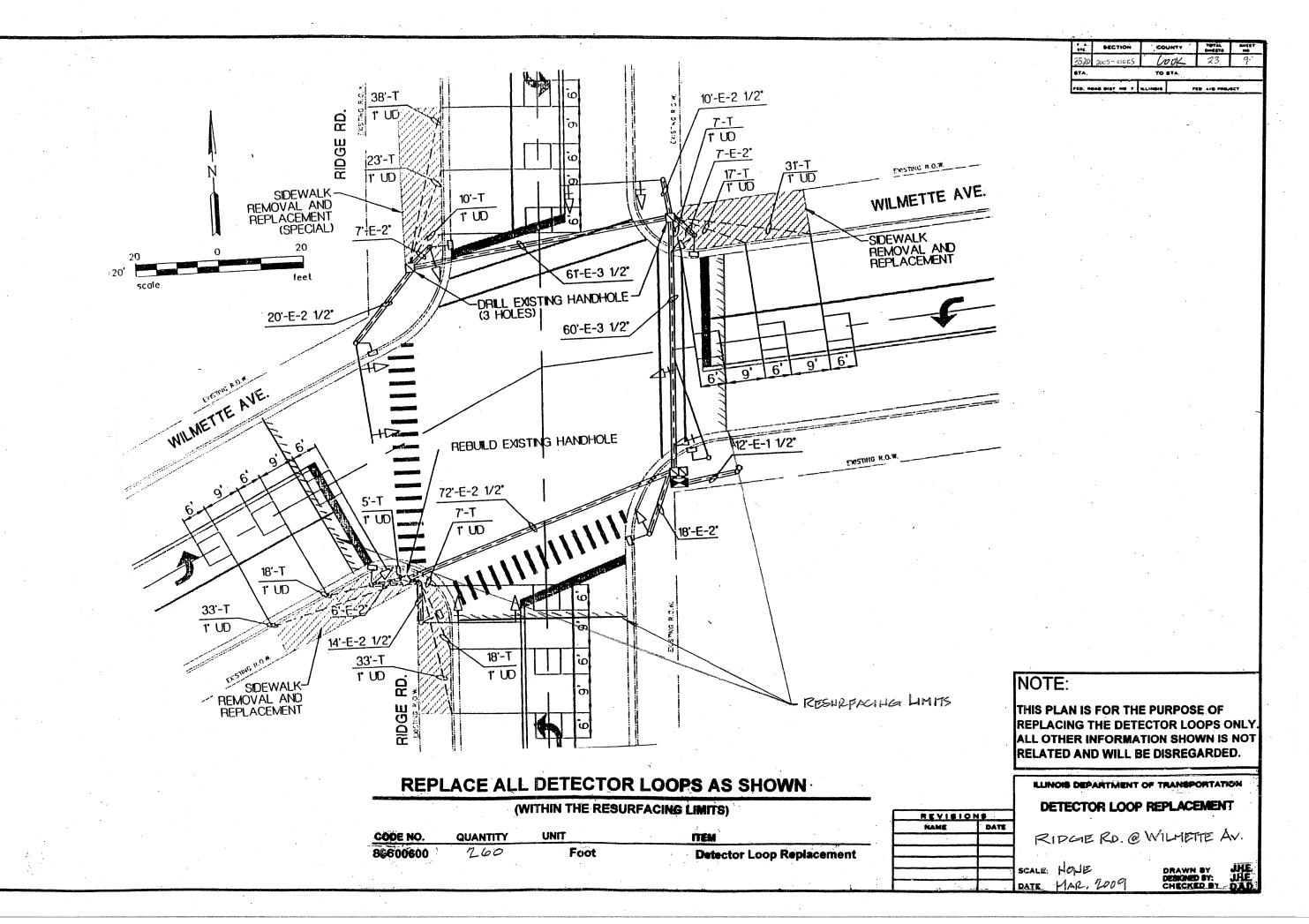
LIMIT OF RESURFACING -

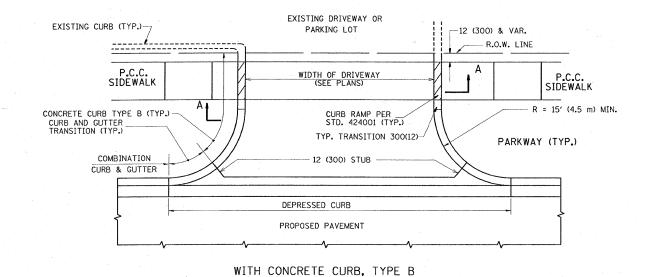
PROPOSED HMA SURFACE REMOVAL, 2 1/4"

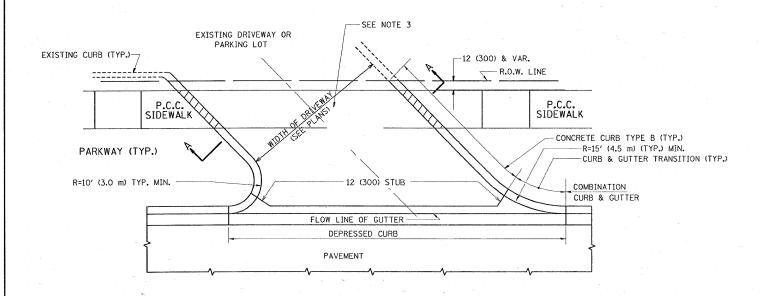
LIMIT OF RESURFACING-

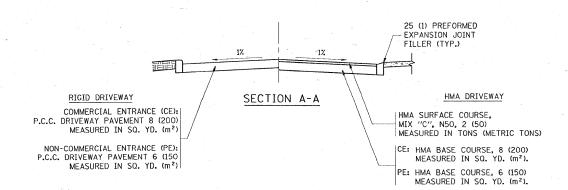
PROPOSED POLYMERIZED LEVELING BINDER, (MM), IL-4.75, N50, 3/4"

PROPOSED HMA SURFACE COURSE, MIX "D", N70, 1 1/2"









R. SHAH

11-04-95

DESIGNED

DRAWN

CHECKED

JSER NAME = smithkl

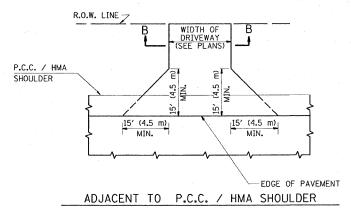
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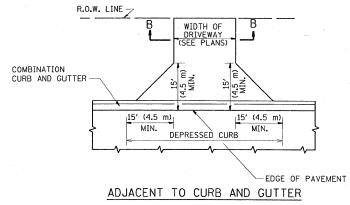
PLOT DATE = 3/26/2009

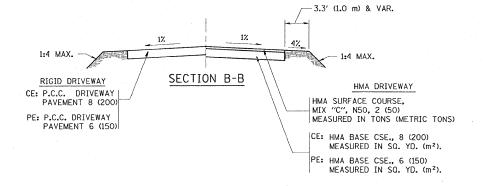
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WITH CONCRETE CURB, TYPE B







RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LATOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

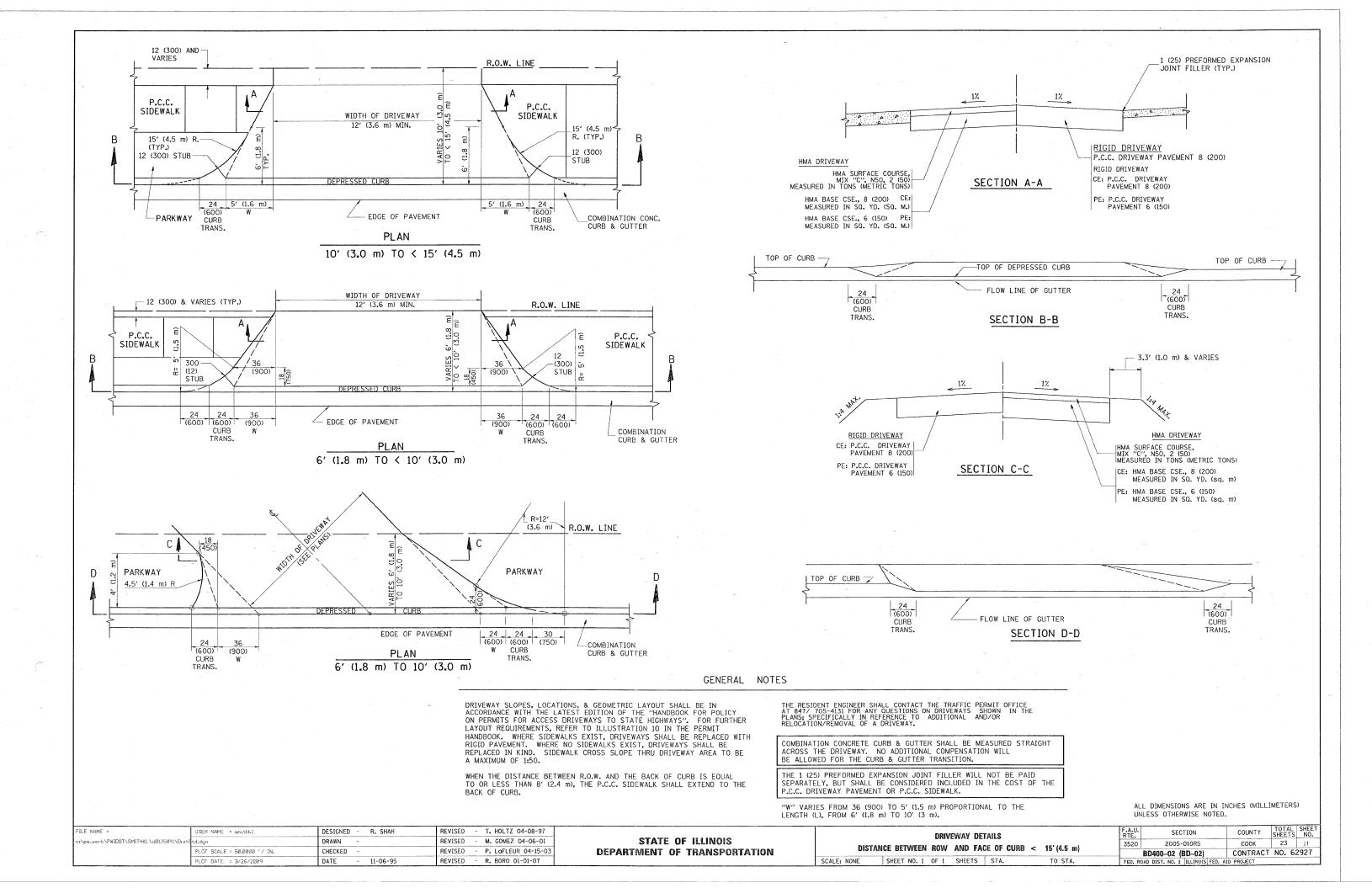
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

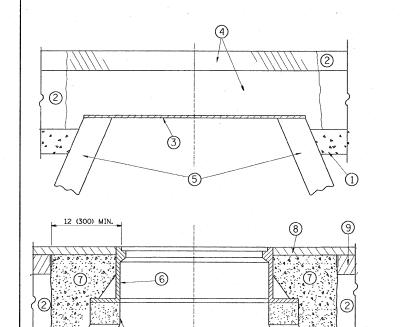
SCALE: NONE

	GOMEZ 04-06-01	м.	-	REVISED
	LaFLUER 04-15-03	Ρ.		REVISED
DE	BORO 01-01-07	R.	-	REVISED
	BORO 06-11-08	R.	-	REVISED

	STATE	OF	ILLINOIS	
A				
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DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AND FACE OF CURB & EDGE OF SHOULDER > = 15'(4.5 m)	3520	2005-010RS	соок	23	10
AND PACE OF COMB & EDGE OF SHOOLDER > - 13 (4.3 iii)		BD0156-07 (BD-01)	CONTRACT	NO. 6	2927
NE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		





PROPOSED

PROPOSED SAND FILL

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.

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

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 $1 \slash\!\!\!/_2$ (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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE LEEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEN

- 1 SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (5) EXISTING STRUCTURE
- (7) CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 8 PROPOSED HMA SURFACE COURSE
- 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 = smithkl DESIGNED - R. SHAH REVISED - R. SHAH 03-10-95

c1\pm_work\PWIDOT\SMITHKL\d0125091\D1545 td.dgn DRAWN - REVISED - A. ABBAS 03-21-97

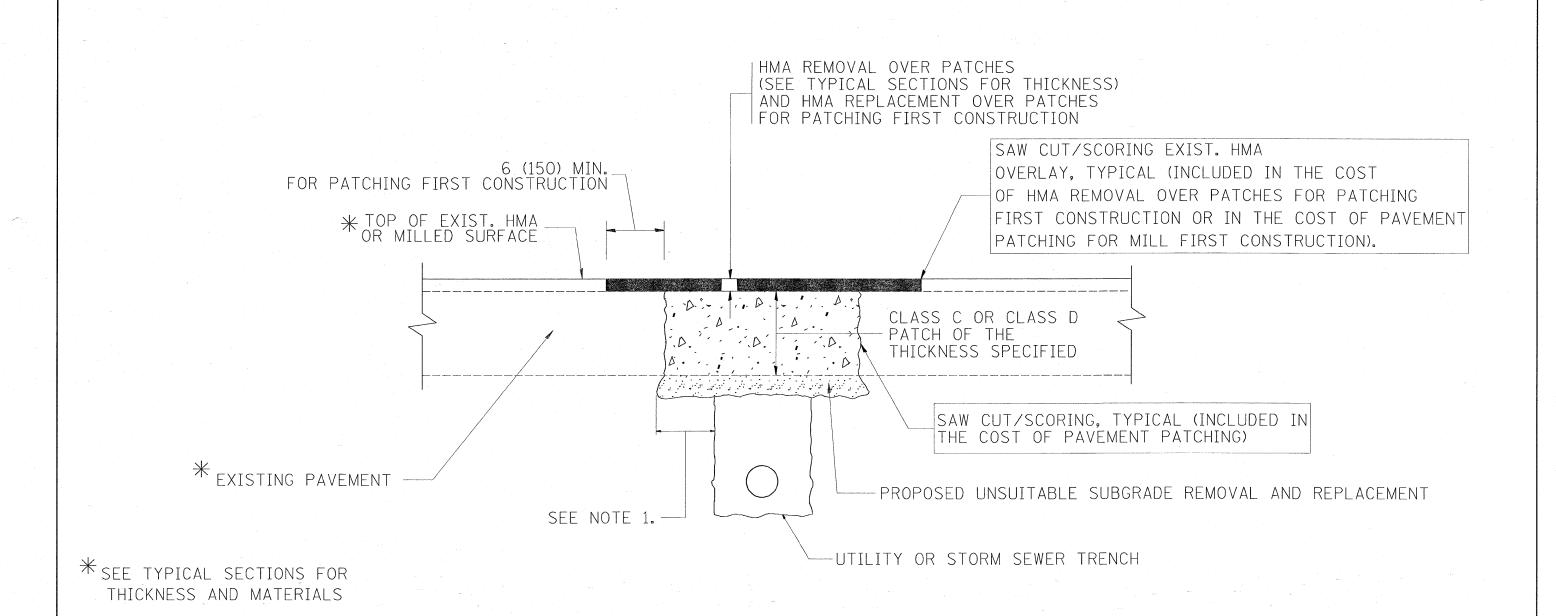
PLOT SCALE = 50.0800 '/ IN. CHECKED - REVISED - R. WIEDEMAN 05-14-04

PLOT DATE = 3/26/2009 DATE - 10-25-94 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRAMES AND LIDS ADJUSTMENT WITH MILLING

SHEET NO. 1 OF 1 SHEETS STA. TO STA.



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)

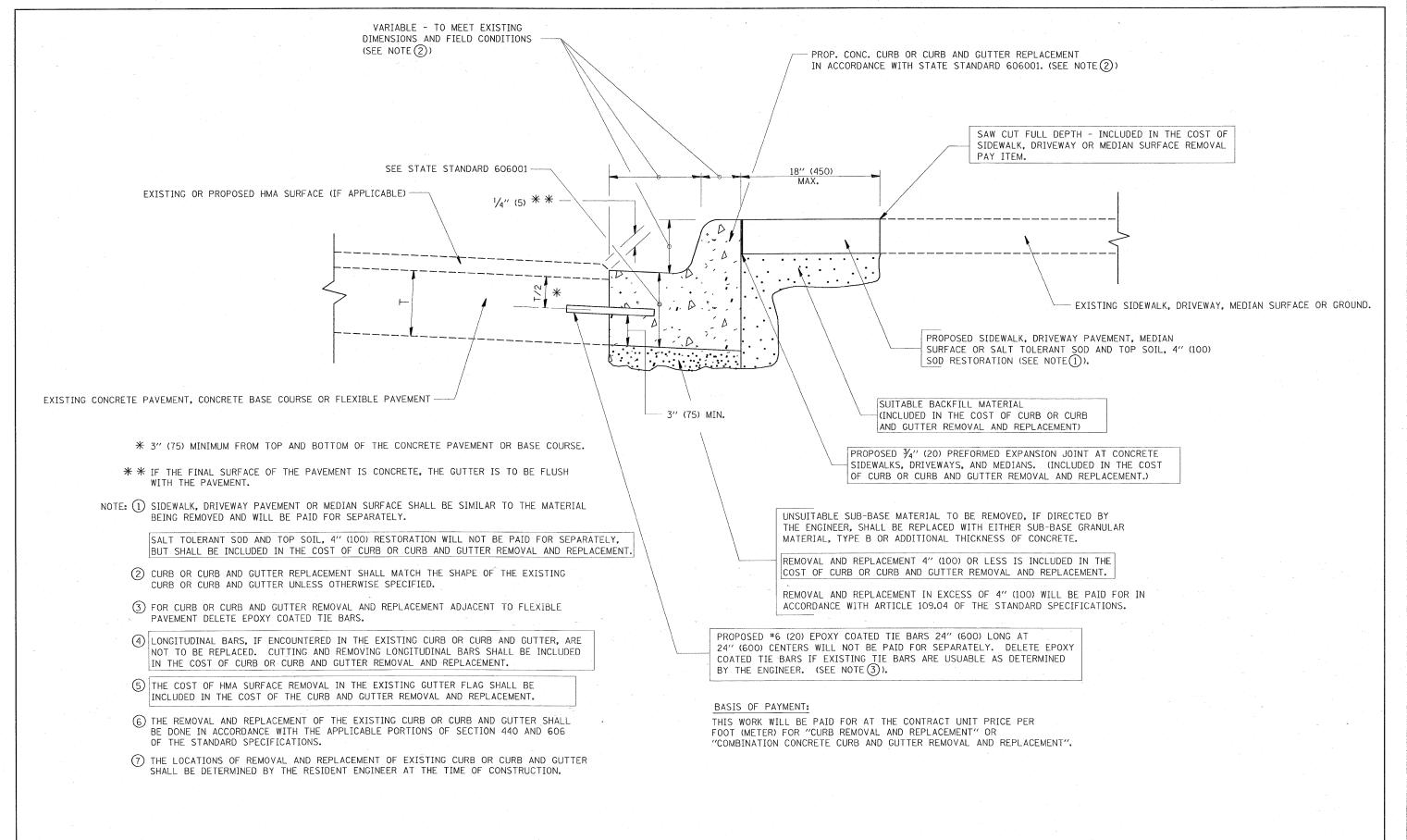
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

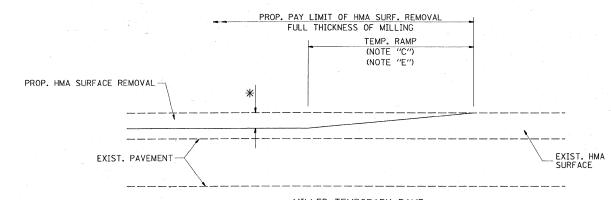
FILE NAME =	USER NAME = smithk!	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U. SECT	TON COUNTY	TOTAL SHEET
c:\pw_work\PWIDOT\SMITHKL\dØ125091\Dist	td.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		3520 2005-0	DIORS COOK	23 13
·	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (B		
	PLOT DATE = 3/26/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT	



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

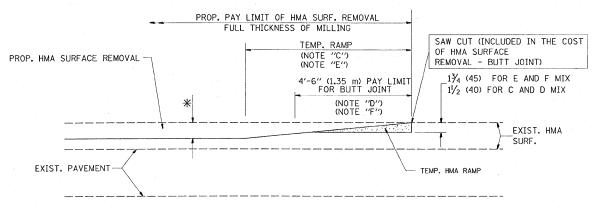
Ī	ILE NAME =	USER NAME = smithkl	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.U. SECTION	COUNTY TOTAL SHEET NO.
ŀ	::\pw_work\PWIDOT\SMITHKL\d0125091\DistS	td.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		3520 2005-010RS	COOK 23 14
		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT	CONTRACT NO. 62927	
		PLOT DATE = 3/26/2009	DATE - 03-11-94	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

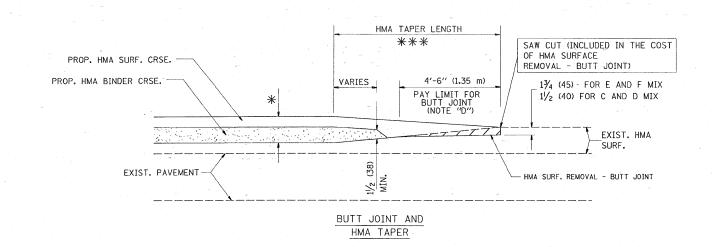


HMA CONSTRUCTED TEMPORARY RAMP

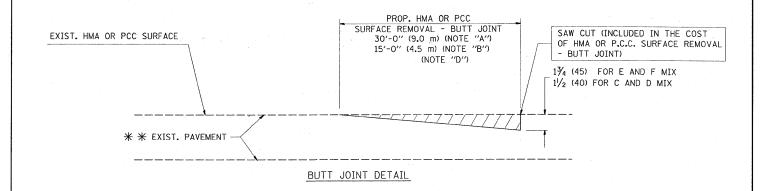
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

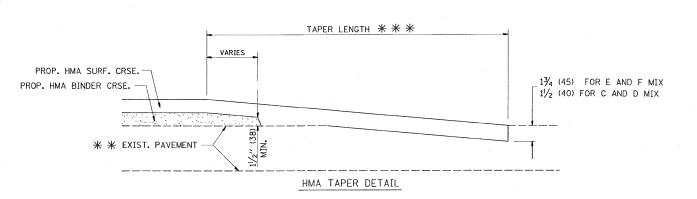
OPTION 2

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:

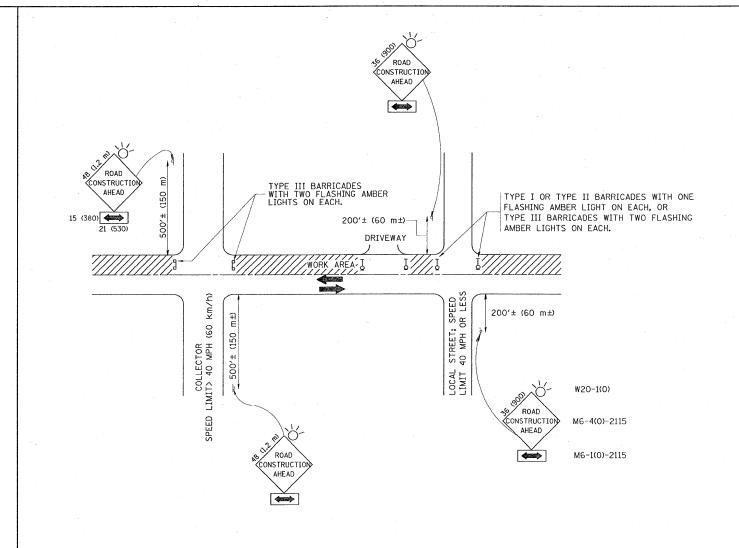
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE: NONE

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

FILE NAME = .	USER NAME = smrthkl	DESIGNED - M. DE YONG	REVISED -	R. SHAH 10-25-94
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	M. GOMEZ 04-06-01
	PLOT DATE = 3/26/2009	DATE - 06-13-90	REVISED -	R. BORO 01-01-07

	BUT	T JOINT A	\ND		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	нма	TAPER DE	TAHE	·	3520	2005-010RS	СООК	23	15
	MINIM	IAPEN DE	IAILO			BD400-05 BD32	CONTRACT	NO. 62	927
SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AL	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 POLITE
- 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 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

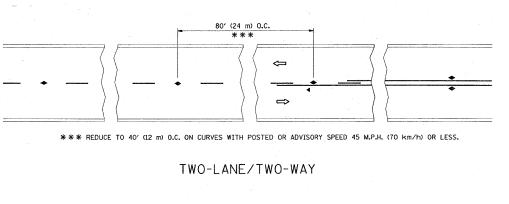
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL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

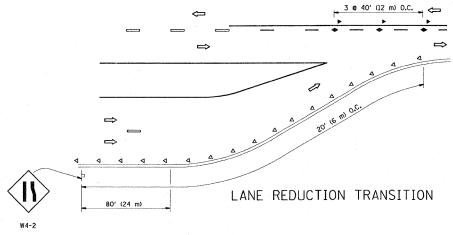
All dimensions are in millimeters (inches) unless otherwise shown.

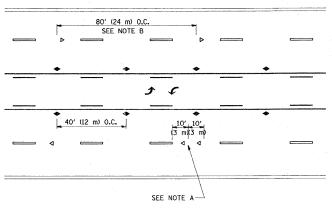
FILE NAME =	USER NAME = smithkl	DESIGNED	-	LHA	REVISED	- J. OBERLE 10-18-95
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	PLDT SCALE = 50.0000 '/ IN.	CHECKED	-		REVISED	- A. HOUSEH 10-15-96
	PLDT DATE = 3/26/2009	DATE	-	06-89	REVISED	-T. RAMMACHER 01-06-00

TRAFFIC	CONTR	OL AND F	ROTEC	TION FOR		
SIDE ROAD	S, INTER	RECTIONS	S, AND	DRIVEWAYS		
 SHEET NO. 1	OF 1	SHEETS	STA.		TO	STA.

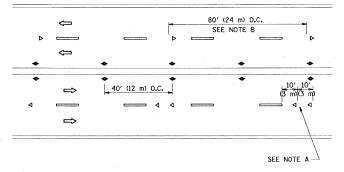
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3520		2	2005	5-C	10RS			СООК	23	16
			TC-	10				CONTRACT	NO. 6	2927
FED.	ROAD	DIST.	NO. 1	1	ILLINOIS	FED.	AID	PROJECT		



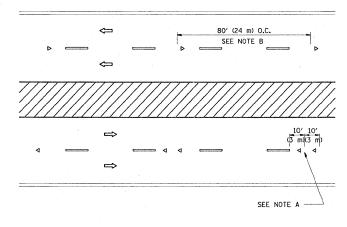




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

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

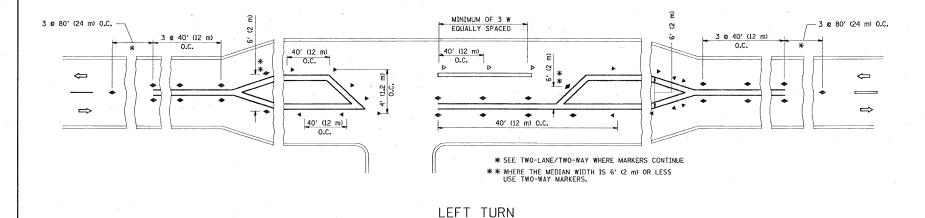
---- YELLOW STRIPE

WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

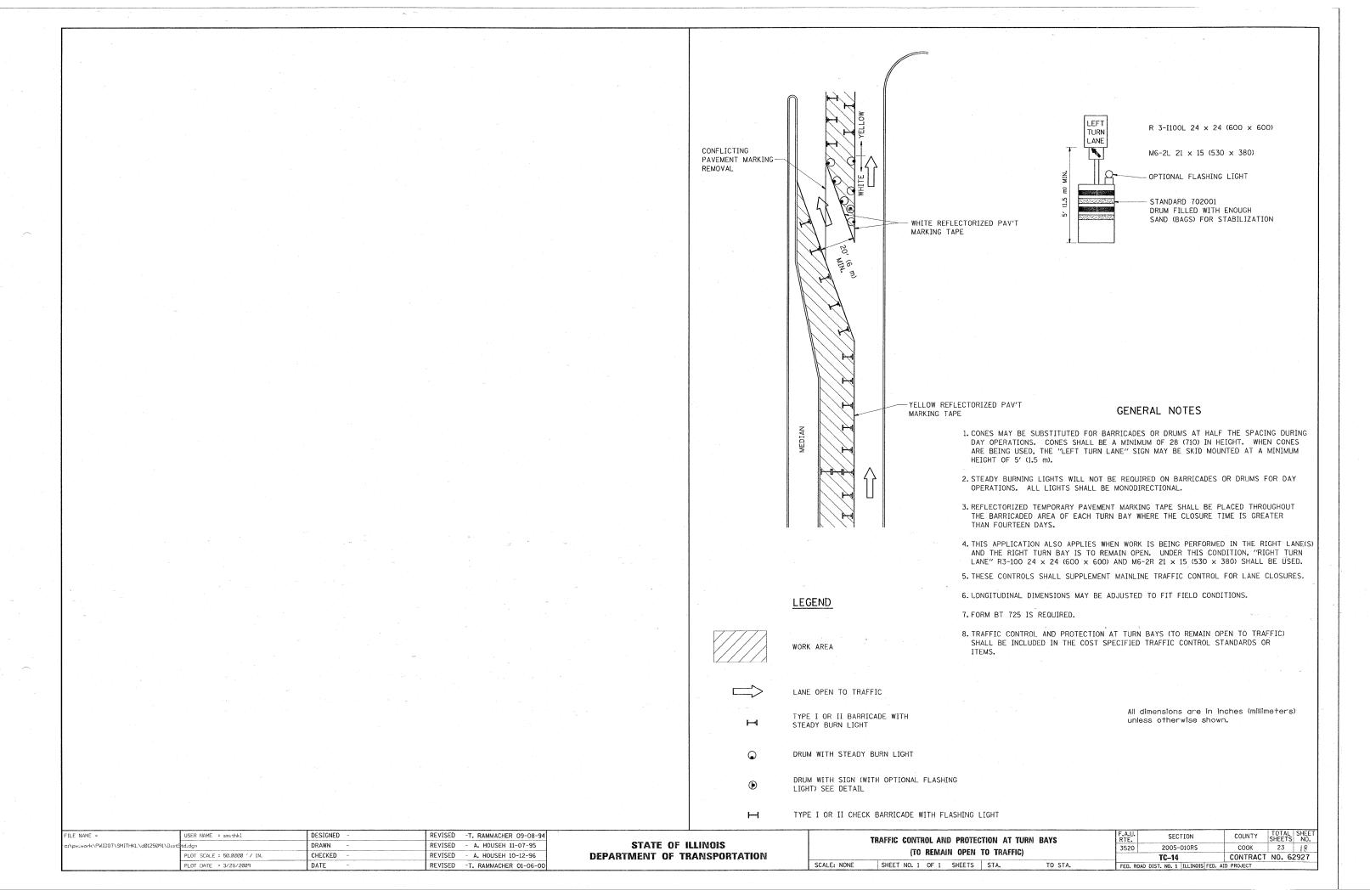
DESIGN NOTES

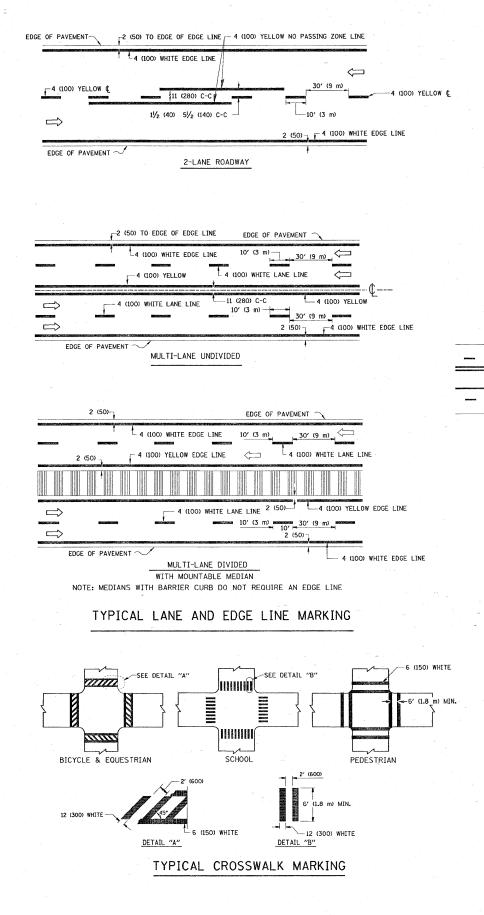
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS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

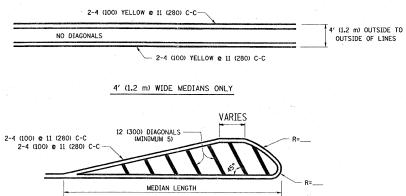


All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = smithkl	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS	F.A.U.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	KAISED K	EFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT	NO. 62927
	PLOT DATE = 3/26/2009	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST.	. NO. 1 ILLINOIS FED. A	ID PROJECT	







FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING

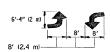
DIAGONAL LINES.

CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED

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

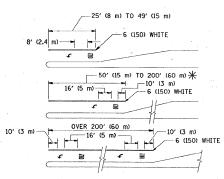
MEDIANS OVER 4' (1.2 m) WIDE 4 (100) YELLOW LINES (5½ (140) C-C) 2-4 (100) YELLOW & 11 (280) C-C 4 (100) YELLOW LINES (5½ (140) C-C)

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

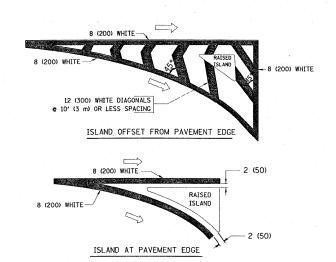


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²) \P AREA = 20.8 SQ. FT. (1.9 m²)

* 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

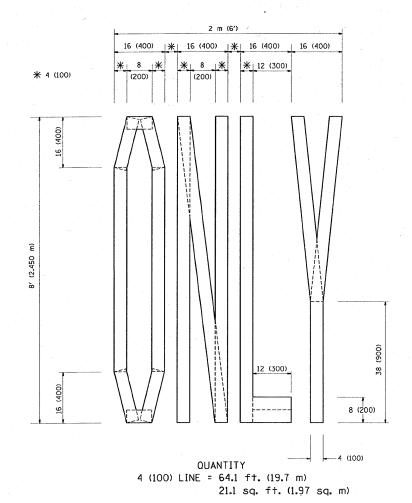
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 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; 51/2 (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' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR	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	4' (1.2 m) WIDE MEDIANS 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 (UVER 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) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

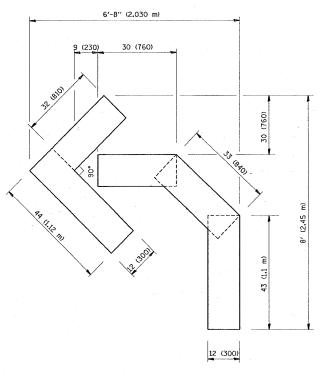
FOR FURTHER DETAILS ON PAYEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

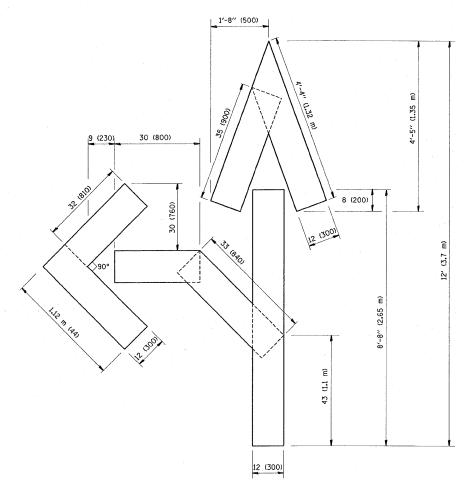
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c:\pw_work\PWIDOT\SMITHKL\d0125091\Dist	td.dgn .	DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 3/26/2009	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

٦	DISTRICT ONE TYPICAL PAVEMENT MARKINGS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
					3520	2005-010RS	соок	23	19	
		ITTICAL PA	ACIAICIAI I	MUMINOS		TC-13 CONTRACT NO. 6			NO. 62	2927
	SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FED. AI	PROJECT		





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

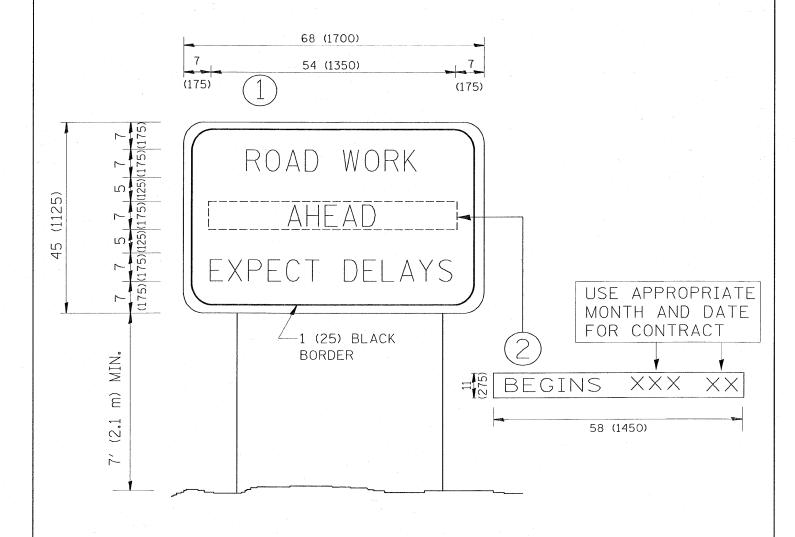


OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = smithkl	DESIGNED	-		REVISED	-T.	RAMMACHER 06-05-96
c:\pw_work\PWIDOT\SMITHKL\dØ12509i\DistS	td.dgn	DRAWN	-		REVISED	-T.	RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-		REVISED	-T.	RAMMACHER 03-02-98
	PLOT DATE = 3/26/2009	DATE	-	09-18-94	REVISED	- E.	. GOMEZ 08-28-00

	PAVEMENT MARKING LETTERS AND SYMBOLS						F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
1	FOR TRAFFIC STAGING					3520	2005-010RS	COOK	23	20	
١	-	FUR	MATTIC 31	MUIIUG				TC-16	CONTRACT	NO. 6	2927
1	SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO	STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D 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.

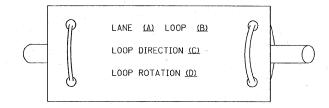
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

. F	FILE NAME =	USER NAME = smithkl	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.U.	SECTION	COUNTY TO	OTAL SHEET
c	c:\pw_work\PWIDOT\SMITHKL\dØ125091\DistS	td.dgn	DRAWN -	RÉVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				3520	2005-010RS	COOK	23 21
		PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN			TC-22	CONTRACT NO	0. 62927
L		PLOT DATE = 3/26/2009	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD D	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	

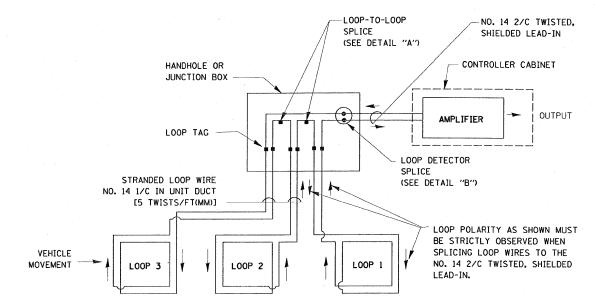
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRF.
- 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

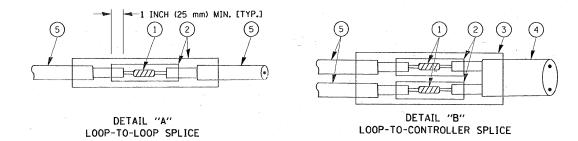


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.

FILE NAME =	USER NAME = smithkl	DESIGNED	-	D.A.D.	REVISED	- 11-12-01
өз\ри_work\PWIDOT\SMITHKL\dØ125Ø91\DistS	td.dgn	DRAWN	-	R.W.P.	REVISED	- BUR. TRAFFIC 01-01-02
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	D.A.Z.	REVISED	4
	PLOT DATE = 3/26/2009	DATE	~	05-30-00	REVISED	-

STATE	OF	ILLINOIS
DEPARTMENT	OF '	TRANSPORTATION

DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN	N DETAILS	3520	2005-010RS	соок	23	22
SINISDAND INVITE SIGNAL DESIGN	1 DEIAILO		TS-05	CONTRACT	NO. 6	2927
SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

LOOPS NEXT TO SHOULDERS

* = (600 mm)

FILE NAME :

::\pw_work\PWIDOT\\$MITHKL\d@125@91\C

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

(3.0 m)

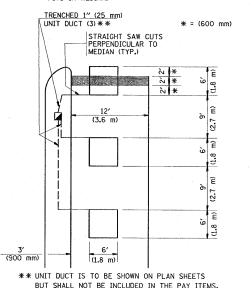
(1.5 m) (1.8 m) (1.5 m)

(3.0 m)

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

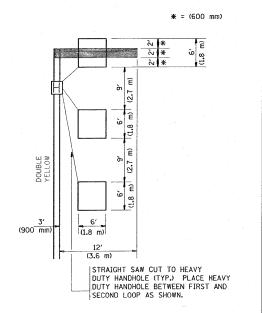
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

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

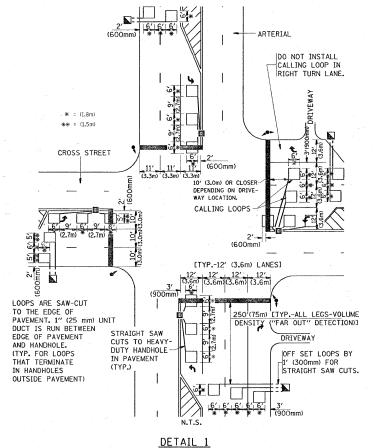
SCALE: NONE

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

1" (25 mm) UNIT DUCT-TRENCHED

TO E/P **

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



N.T.S.

PLOT SCALE = 50.0000 '/ IN.

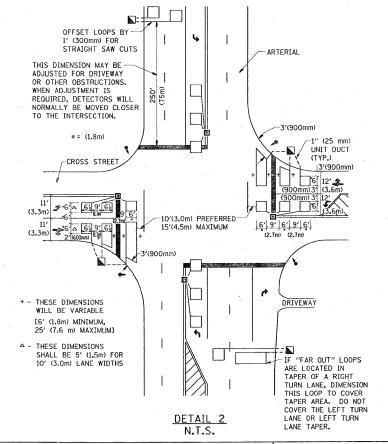
PLOT DATE = 3/26/2009

DESIGNED

CHECKED - R.K.F.

DRAWN

DATE



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 (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 $\underline{\mathsf{ALL}}$ 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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DIS	TRIC	ſ 1 -	DE	TECTOR	LOOP INSTALLA	TION	
	DET	AILS	FOF	ROAD	WAY RESURFACIN	i G	
SHEET	NO. 1	l OF	1	SHEETS	STA.	TO	STA.

F.A.U. RTE.	SECTION	COUNTY	SHEETS	NO.				
3520	2005-010RS	соок	23	23				
	TS-07	CONTRACT	NO. 6	2927				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								