STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 344: IL 83
BUFFALO GROVE RD. TO S. OF LAKE-COOK RD
SECTION 44RS-1

RESURFACING (MAINTENANCE)
LAKE COUNTY
C-91-073-09

PROJECT ENDS
STA. 53+00

R 11 E

EVERETT RD.

DUFFYS LA.

DUFFYS LA.

DUFFYS LA.

ON THE ELLOW STA.

ARE INCTON
STA. 53+00

PROJECT BEGINS
STA. 08+21

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.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGE OF BUFFALO GROVE

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

TRAFFIC DATA : 2007 ADT = 21,000

POSTED SPEED LIMIT = 45 MPH

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

GROSS AND NET LENGTH OF PROJECT = 4,479 FT. = 0.85 MILE

VERNON TOWNSHIP

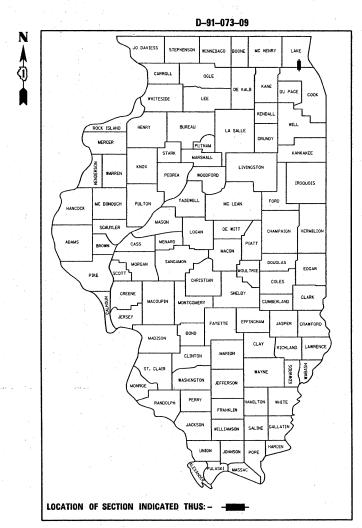
CONTRACT NO. 60F42

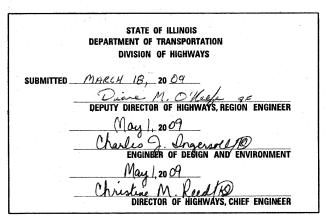
F.A.P SECTION COUNTY TOTAL SHEET NO.

344 44RS-1 LAKE 3.5 1

ILLINOIS CONTRACT NO. 60F42

#25+1=26





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STATE STANDARDS

442201-03 CLASS C AND D PATCHES

701426-03 LANE CLOSURE MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH 701606-26 URBAN LANE CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN

701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901-01 TRAFFIC CONTROL DEVICES

GENERAL NOTES

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

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

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).

CONCRETE BUTT JOINTS WILL BE INSTALLED AT THE INTERSECTION OF LAKE-COOK ROAD AND IL ROUTE 83 AS SHOWN ON THE PLAN, 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 ENGINEER.

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

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

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.

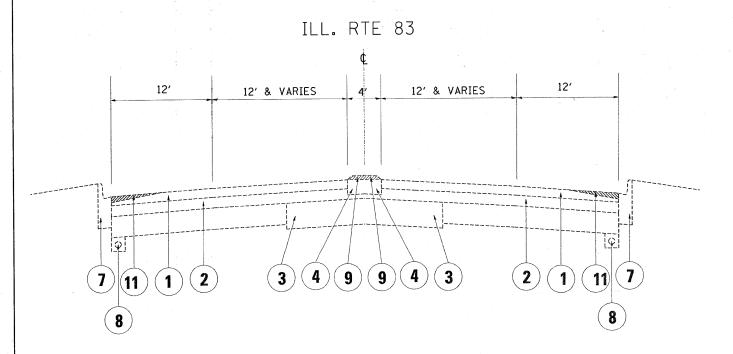
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STATE	OF	ILLINOIS	
DEPARTMENT	OF	TRANSPO!	RTATION

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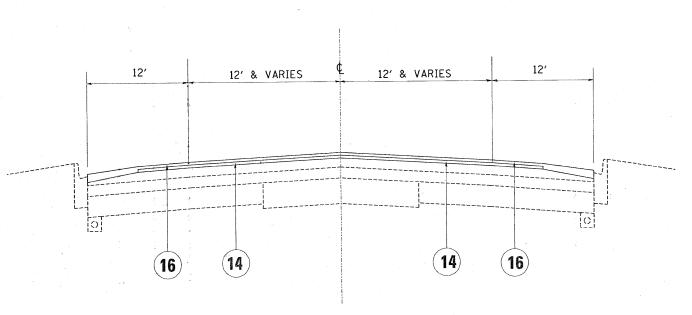
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Salah Carangan Carangan



(BARE EXISTING PCC PORTION OF ROADWAY)

STA. 08+21 TO STA. 14+00



PROP. TYPICAL SECTION

(BARE EXISTING PCC PORTION OF ROADWAY)

STA. 08+21 TO STA. 14+00

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS IL. ROUTE 83 (N. OF BUFFALO GROVE RD. – S. OF LAKE-COOK RD.) SCALE: Scale Sheet No. Of Sheets Sta. To Sta. Fed.

LEGEND

- 1) EXISTING P.C.C. PAVEMENT, ±10"
- 2) EXISTING HMA BASE COURSE, ±12"
- 3) EXISTING HMA BASE COURSE, VARIABLE DEPTH
- 4) EXISTING MOUNTABLE CORRUGATED MEDIAN
- (5) EXISTING CONCRETE MEDIAN, TYPE M-2 (TO REMAIN IN PLACE)
- (6) EXISTING COMBINATION CONCRETE CURB & GUTTER, TY. M-2.12 (TO REMAIN IN PLACE)
- (7) EXISTING COMBINATION CONCRETE CURB & GUTTER, TY. B-6.24
- 8 EXISTING 6" PIPE UNDERDRAIN
- (9) ** P.C.C. MEDIAN SURFACE REMOVAL, ±2" (TO MATCH ADJACENT SURFACE)
- (10) P.C.C. MEDIAN SURFACE REMOVAL, ±4 1/4" (TO MATCH ADJACENT MILLED SURFACE)
- 11) P.C.C. VARIABLE SURFACE REMOVAL (TYP.)
- (12) PROP. HMA SURFACE REMOVAL, 2 1/4"
- (13) EXISTING HMA AFTER MILLING, 2 1/4"
- (14) PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 1"
- 15) PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- 16) PROP. HMA SURFACE COURSE, MIX D, N70, 1 1/2"
- ** STA. 08+21 TO 08+89 MEDIAN TO REMAIN IN PLACE

MIXTURE REQUIREMENTS								
WIXTURE 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.						

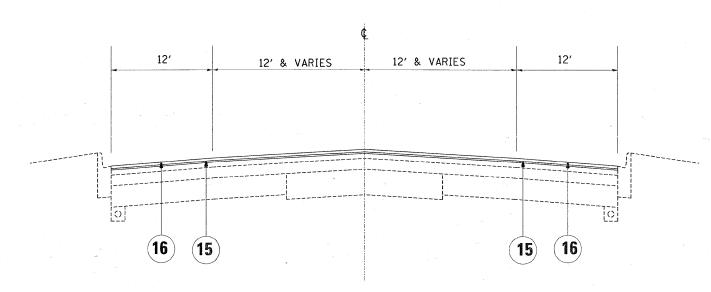
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQYD/IN

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

ILL. RTE 83 12' 12' 8 VARIES TOTAL EXISTING HMA, ±4 1/2" 7 12 13 2 3 4 4 3 2 13 12 7 8

EXIST. TYPICAL SECTION (EXIST. HMA PORTION OF ROADWAY)

STA. 14+00 TO STA. 14+74



PROP. TYPICAL SECTION
(EXIST. HMA PORTION OF ROADWAY)

STA. 14+00 TO STA. 14+74

LEGEND

- 1 EXISTING P.C.C. PAVEMENT, ±10"
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- ** STA. 08+21 TO 08+89 MEDIAN TO REMAIN IN PLACE

NOTE:

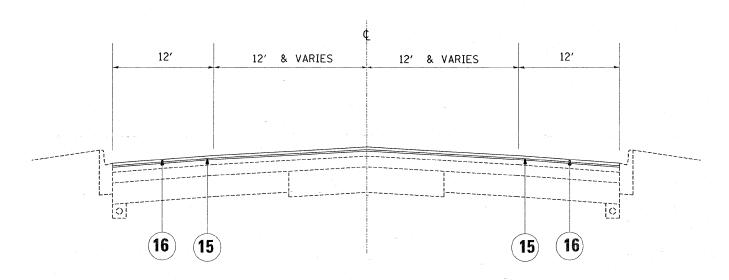
WHERE EXISTING HMA SURFACE EXISTS,
THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

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1	į	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	Checked By	REVISED -	Revised By3	DEPARTMENT OF TRANSPORTATION	IL. NOUTE 83 (N. OF BUFFALU GROVE RD 5. OF LAKE-COUR RD.)			CONTRACT	NO. 60
-		PLOT DATE = 5/20/2009	DATE -	Checked Date	REVISED -	Revised By4		SCALE: Scale SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO	. ILLINOIS FED. A	ID PROJECT	

12' 12' & VARIES 12' & VARIES 12' TOTAL EXISTING HMA, ±4 1/2" 7 12 13 2 3 3 2 13 12 7

EXIST. TYPICAL SECTION
(EXIST. HMA PORTION OF ROADWAY)

STA. 15+92 TO STA. 44+52



PROP. TYPICAL SECTION

(EXIST. HMA PORTION OF ROADWAY)

STA. 15+92 TO STA. 44+52

LEGEND

- 1) EXISTING P.C.C. PAVEMENT, ±10"
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- 16) PROP. HMA SURFACE COURSE, MIX D, N70, 1 1/2"
- ** STA. 08 + 21 TO 08 + 89 MEDIAN TO REMAIN IN PLACE

NOTE:

WHERE EXISTING HMA SURFACE EXISTS,
THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

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	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	Checked By	REVISED	-	Revised By3
	PLOT DATE = 5/20/2009	DATE	~	Checked Date	REVISED	-	Revised By4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				TYP	ICAL SE	CTIONS	3		
IL. ROUTE	83	(N.	0F	BUFFALO	GROVE	RD. –	S. 0F	LAKE-COOK RD).)
: Scale	SI	HEET	NO.	OF	SHEETS	STA.		TO STA.	

 F.A.P. RTE.
 SECTION
 COUNTY SHEETS NO.
 TOTAL SHEETS NO.

 344
 44RS-1
 LAKE
 25
 5A

 CONTRACT NO. 60F 42

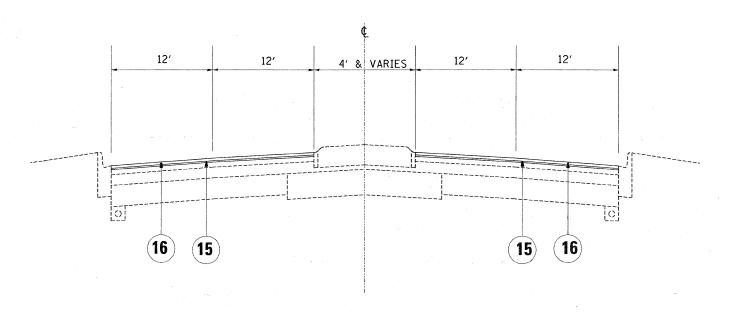
 FED. ROAD DIST. NO.
 ILLINOIS FED. AID PROJECT

12' 12' 4' & VARIES 12' 12' TOTAL EXISTING HMA, ±4 1/2" TOTAL EXISTING H

ILL. RTE 83

EXIST. TYPICAL SECTION
(EXIST. HMA PORTION OF ROADWAY)

STA. 44+52 TO STA. 53+00



PROP. TYPICAL SECTION

(EXIST. HMA PORTION OF ROADWAY)

STA. 44+52 TO STA. 53+00

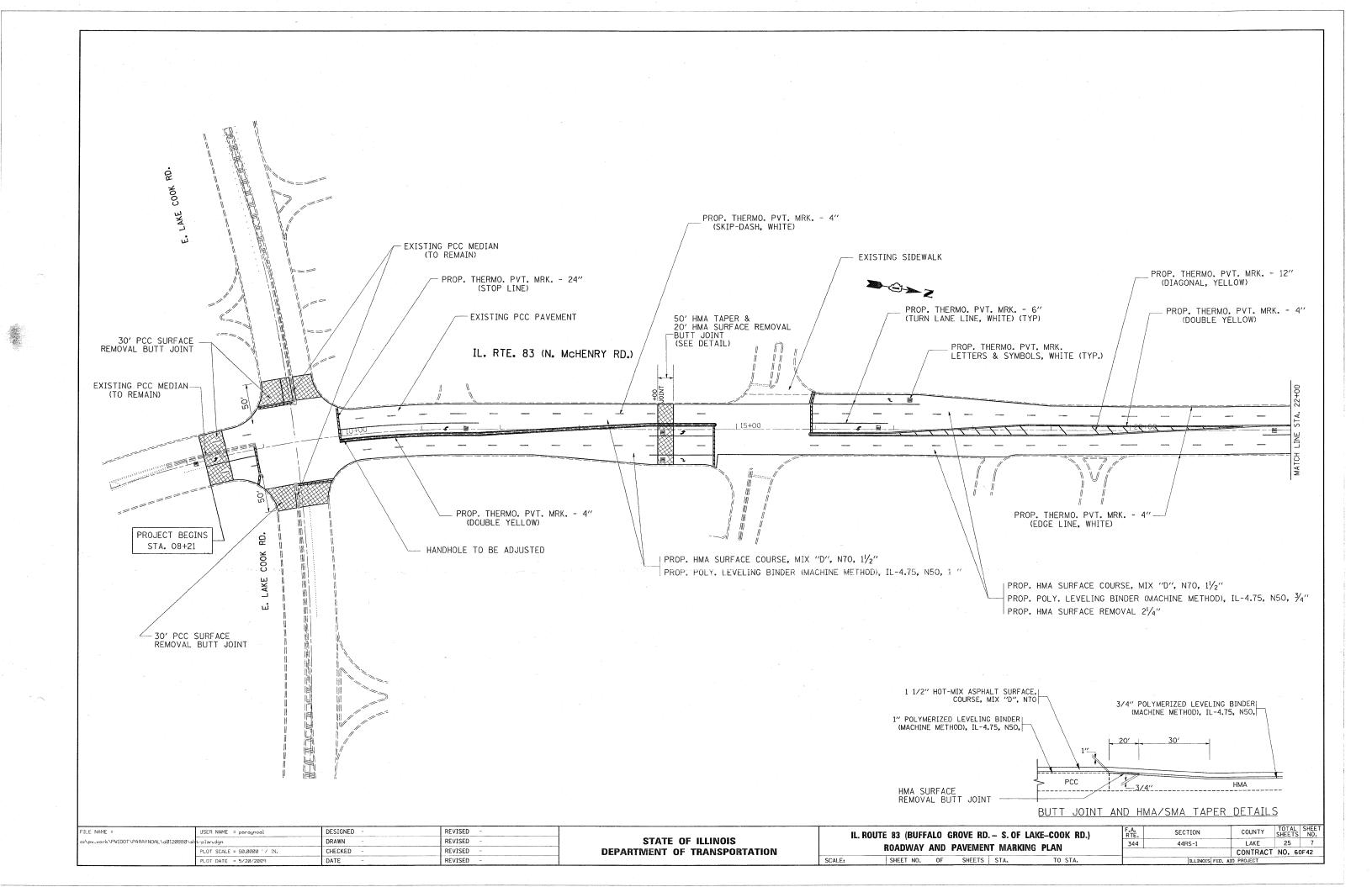
LEGEND

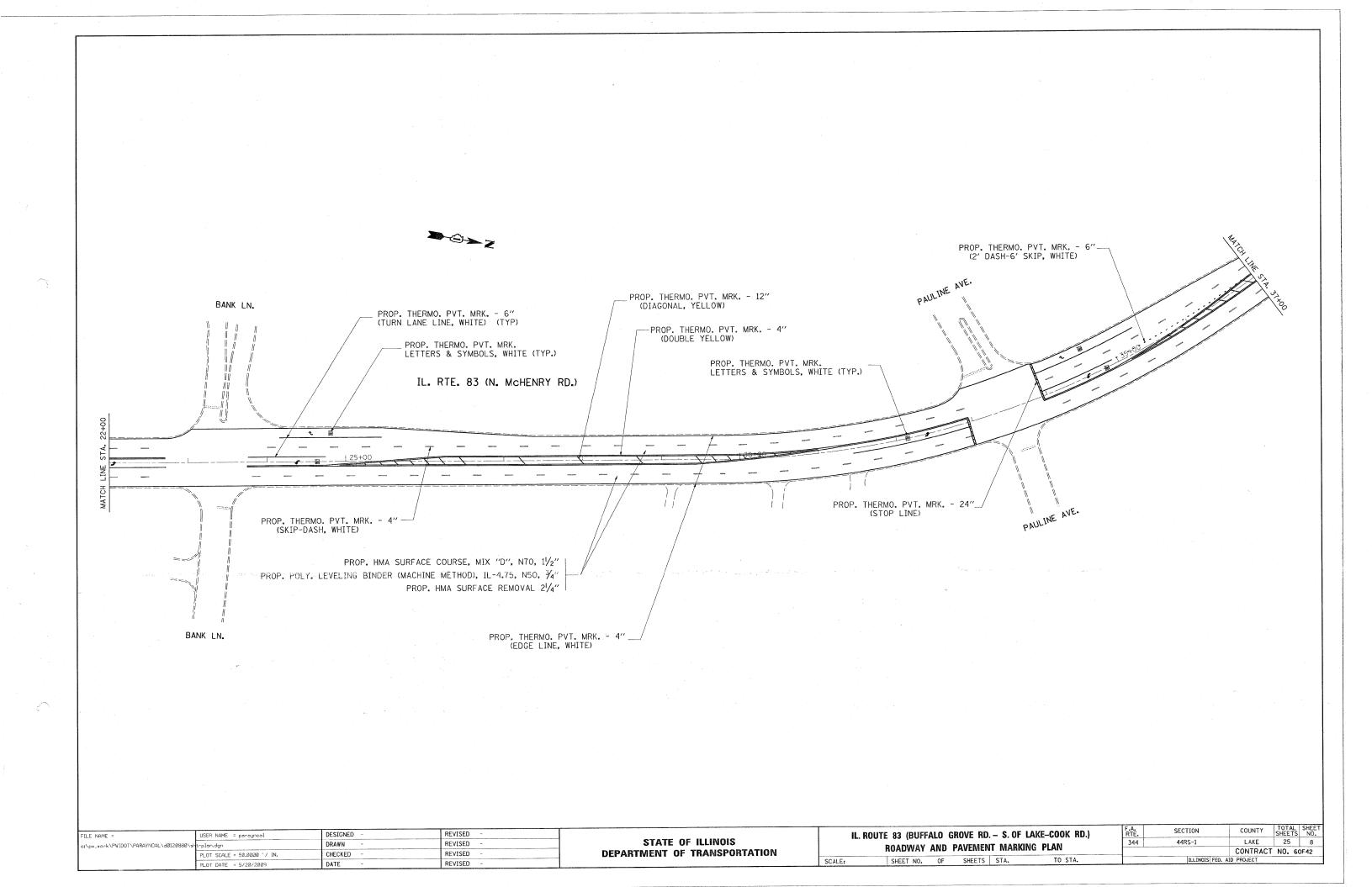
- 1 EXISTING P.C.C. PAVEMENT, ±10"
- 2) EXISTING HMA BASE COURSE, ±12"
- (3) EXISTING HMA BASE COURSE, VARIABLE DEPTH
- 4 EXISTING MOUNTABLE CORRUGATED MEDIAN
- (5) EXISTING CONCRETE MEDIAN, TYPE M-2 (TO REMAIN IN PLACE)
- (6) EXISTING COMBINATION CONCRETE CURB & GUTTER, TY. M-2.12 (TO REMAIN IN PLACE)
- 7) EXISTING COMBINATION CONCRETE CURB & GUTTER, TY. B-6.24
- 8 EXISTING 6" PIPE UNDERDRAIN
- (9) ** P.C.C. MEDIAN SURFACE REMOVAL, ±2" (TO MATCH ADJACENT SURFACE)
- 10 P.C.C. MEDIAN SURFACE REMOVAL, ±4 1/4" (TO MATCH ADJACENT MILLED SURFACE)
- 11) P.C.C. VARIABLE SURFACE REMOVAL (TYP.)
- PROP. HMA SURFACE REMOVAL, 2 1/4"
- (13) EXISTING HMA AFTER MILLING, 2 1/4"
- PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 1"
- PROP. POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- 16 PROP. HMA SURFACE COURSE, MIX D, N70, 1 1/2"
- ** STA. 08+21 TO 08+89 MEDIAN TO REMAIN IN PLACE

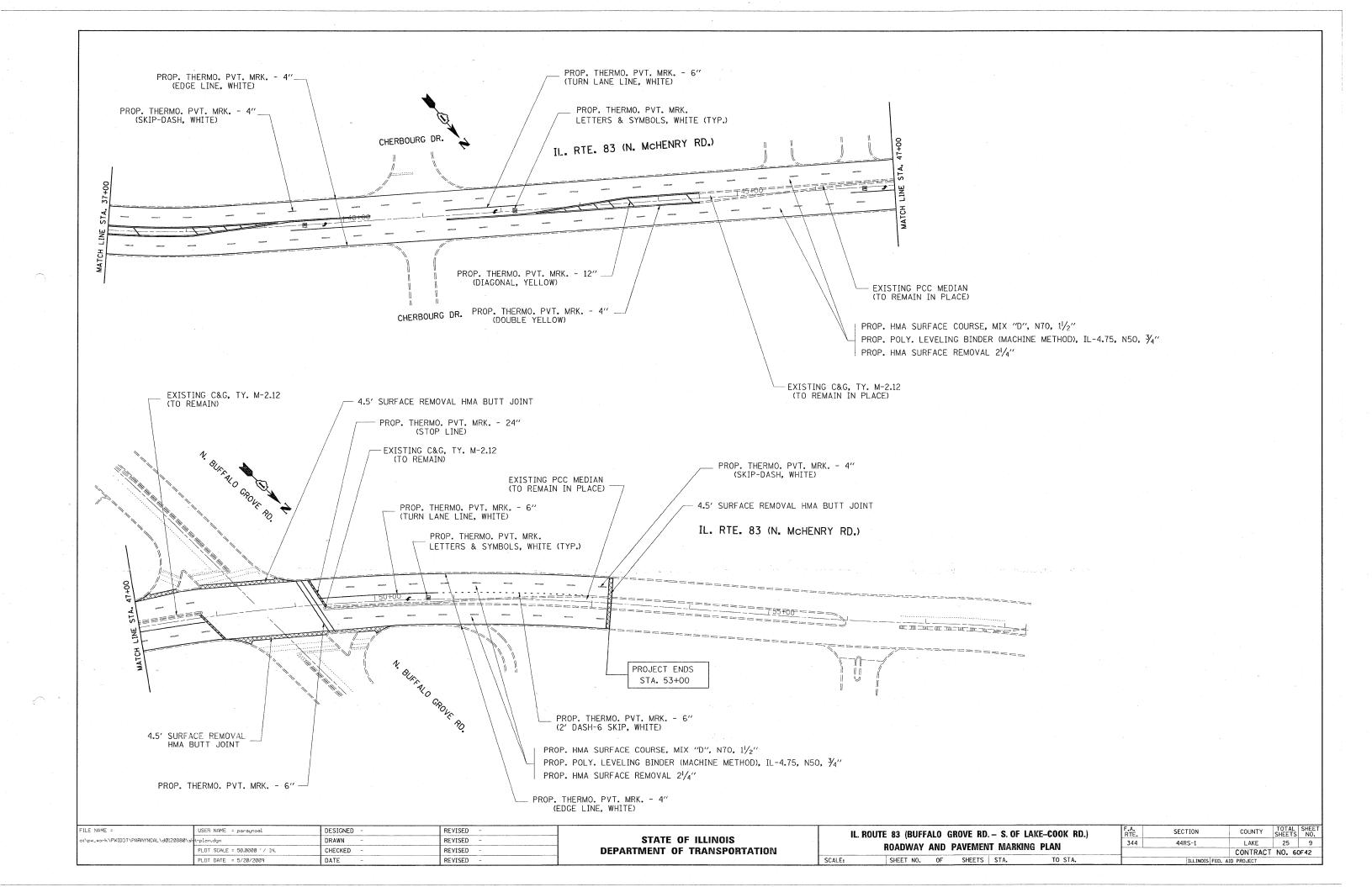
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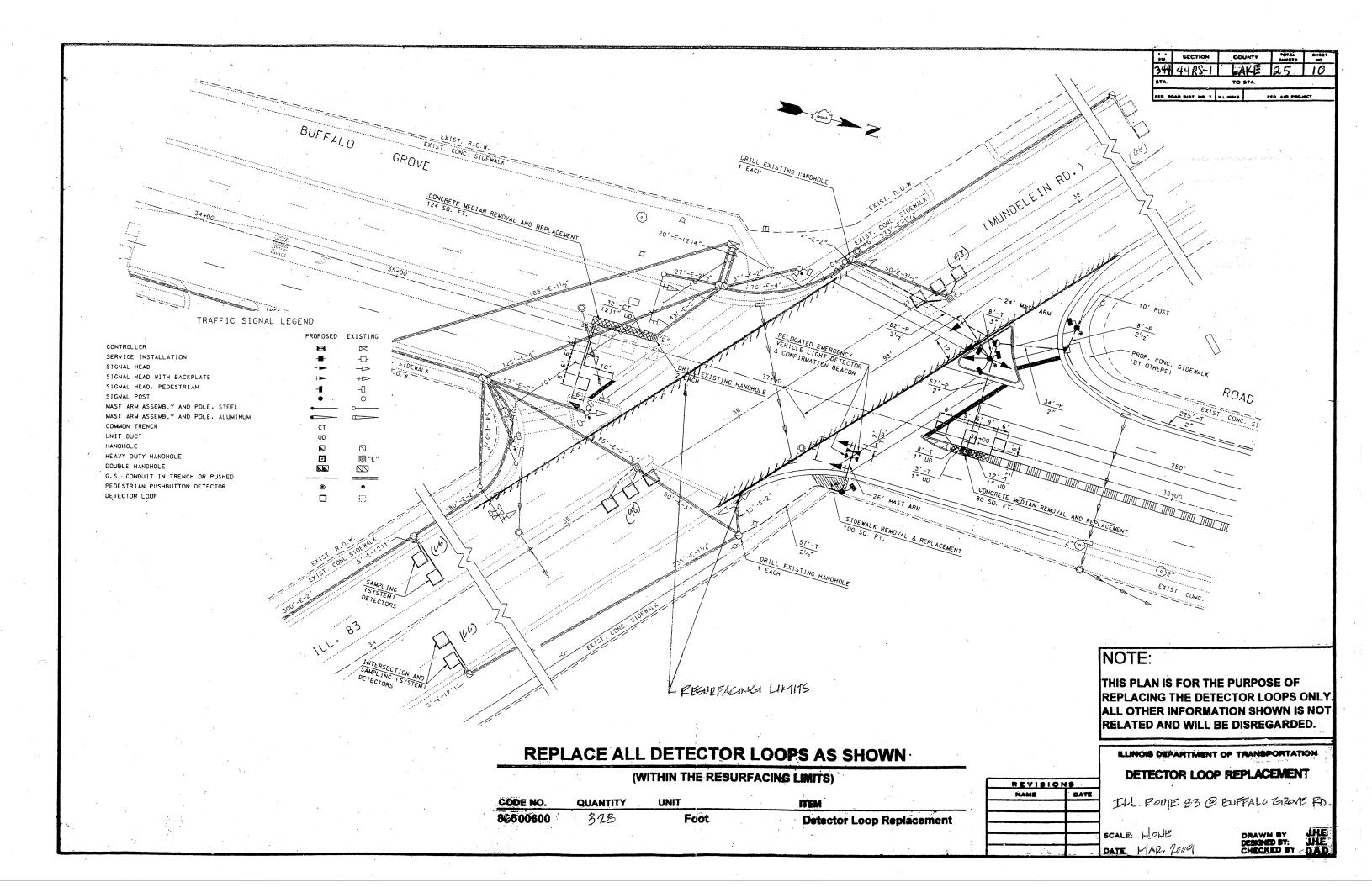
WHERE EXISTING HMA SURFACE EXISTS,
THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

FILE NAME =	USER NAME = paraynoal	DESIGNED -	Designed By	REVISED - Revised By1				TV	PICAL SE	CTION	IC .	F.A.P	SE	CTION	COUNT
c:/pw_work/PWIDOT/PARAYNOAL/d0120880/sh	t-plan.dgn	DRAWN -	Drawn By	REVISED - Revised By2	STATE OF ILLINOIS	u pourr	(1) 05				-	344	44	RS-1	LAKE
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	Checked By	REVISED - Revised By3	DEPARTMENT OF TRANSPORTATION	IL. KUUTE	83 (N. UF	BUFFAL	U GRUVE	KD	- S. OF LAKE-COOK RD.)			.,,,	CONTR
	PLOT DATE = 5/20/2009	DATE -	Checked Date	REVISED - Revised By4		SCALE: Scale	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. A	AID PROJECT





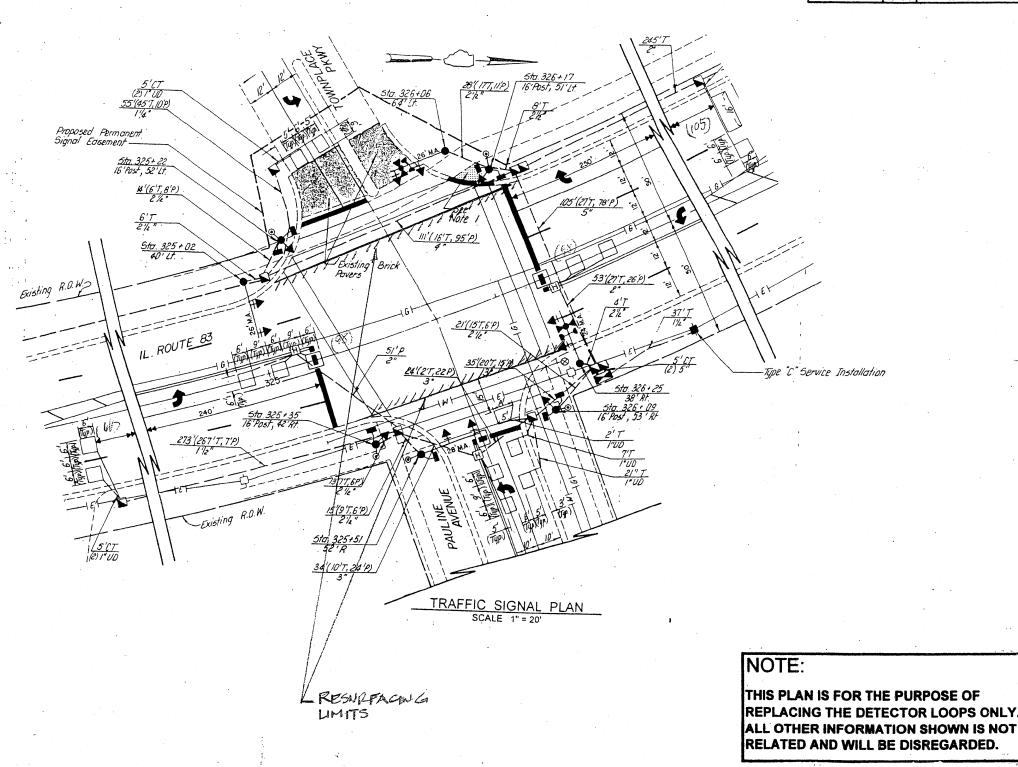




TRAFFIC	SIGNAL	LEGEN

	EXISTING	PROPOSED
CONTROLLER	\boxtimes	B
SERVICE INSTALLATION	ф	#
SIGNAL HEAD	>	>
SIGNAL HEAD WITH BACKPLATE	+⊳	+▶
SIGNAL HEAD, PEDESTRIAN	-0	-8
SIGNAL POST	0	• ,
MAST ARM ASSEMBLY AND POLE, STEEL	0-	•
MAST ARM ASSEMBLY AND POLE, ALUMINUM	0	
HANDHOLE	⊠_£.	
HEAVY DUTY HANDHOLE	H E	\mathbb{H}
DOUBLE HANDHOLE	22.E	
G.S. CONDUIT IN TRENCH OF PUSHED		
EMERGENCY VEHICLE SYSTEM DETECTOR	∞	•4
CONFIRMATION BEACON	-0	4
COMMON TRENCH		CT
UNIT DUCT		UD
PEDESTRIAN PUSHBUTTON DETECTOR	. 0	•
DETECTOR LOOP	[3]	

876.	BECTION	COUNTY	SMESTS	DHEST OM
	44RS-1	AKE	25	11
STA.		TO STA.	٠.	



REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO. QUANTITY UNIT FIEM

80600600 367 Foot Detector Loop Replacement

ILLINOIS DEPARTMENT OF TRANSPORTATION

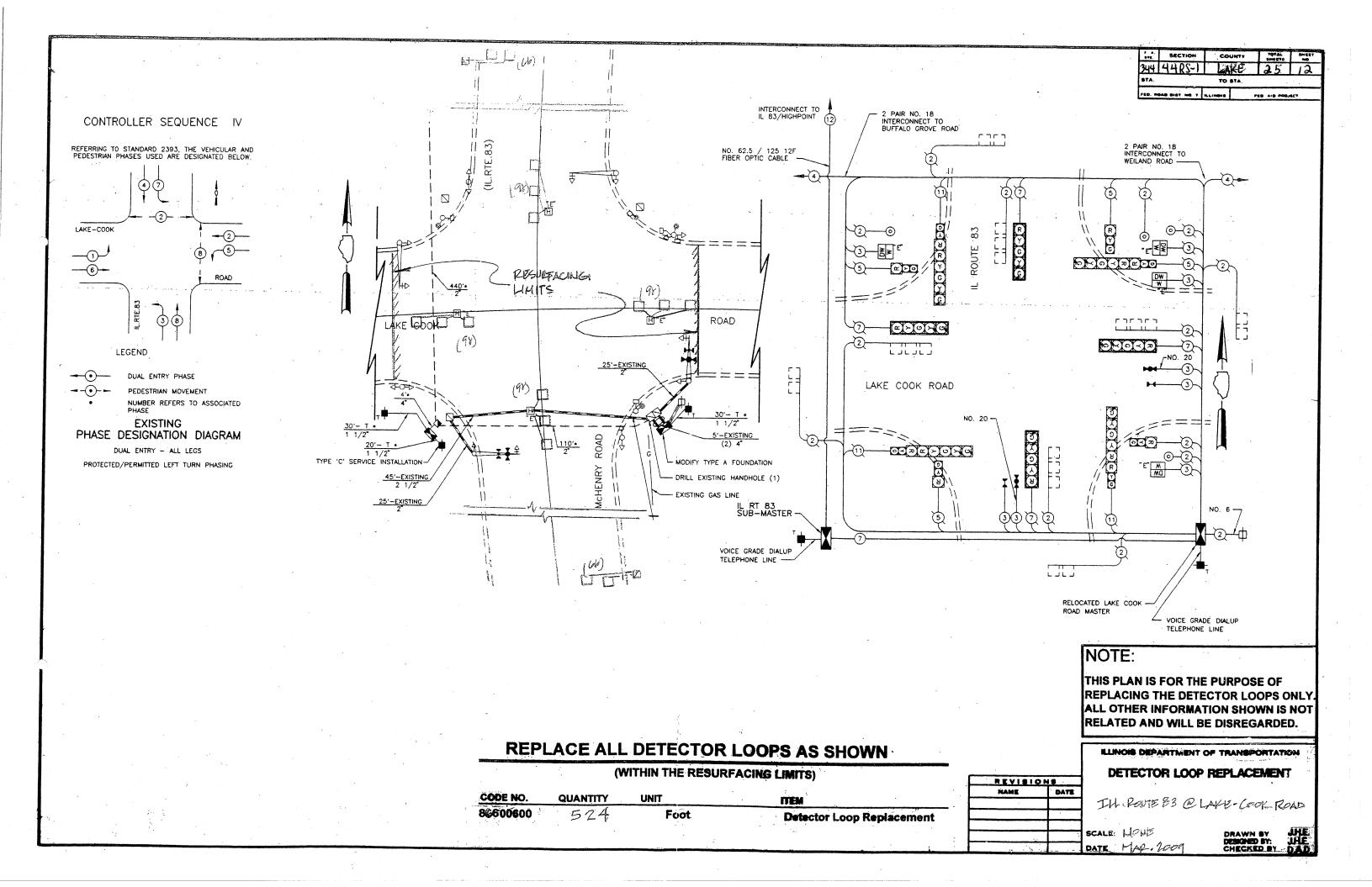
DETECTOR LOOP REPLACEMENT

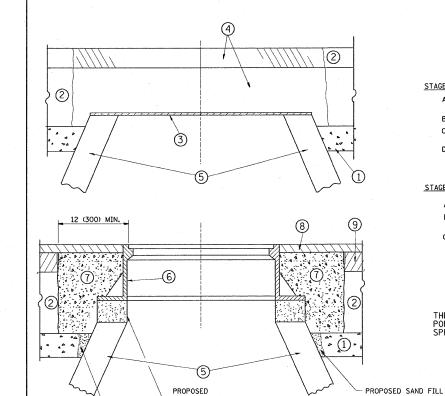
ILL ROUTE 83 @ PAULINE AVENUE

SCALE HOLE DATE HAR 1009

REVISIONS

DRAWN BY J. DESGNED BY: J. CHECKED BY D





BRICK, MORTAR, OR CONC. ADJUSTING RINGS

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

PROPOSED SAND FILL

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

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

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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM $1\!\!/_2$ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION 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.

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

LOCATION OF STRUCTURES:

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

TO STA.

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

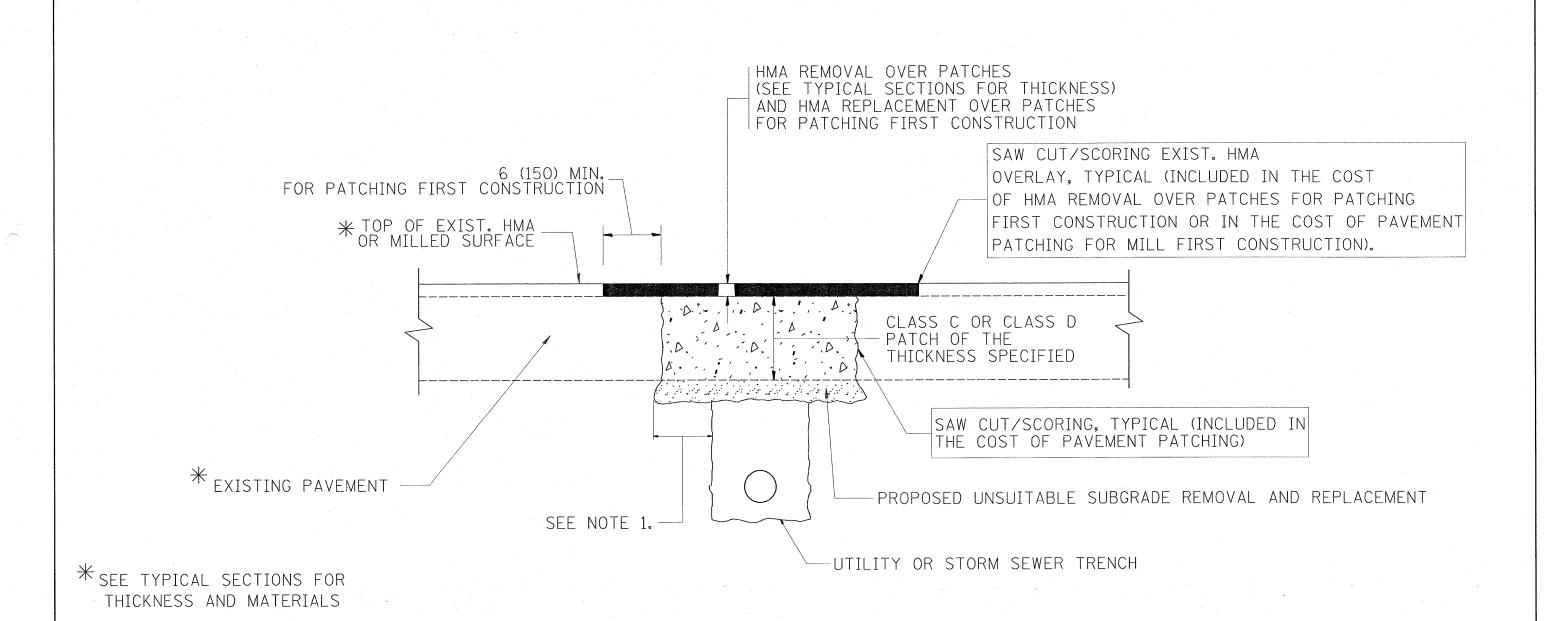
FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95
c:\pw_work\PWIDOT\PARAYNOAL\dØ120880\Di	stStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04
	PLDT DATE = 3/19/2009	DATE - 10-25-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			D	ETAILS FO	R	
	FRAMES	AND	LIDS	ADJUSTN	IENT WITH	MILLI
U.E. NONE	CUEET N	0 1	OF 1	CHEETE	CTA	

COUNTY TOTAL SHEETS NO.

LAKE 25 13 344 44RS-1 CONTRACT NO. 60F42 BD600-03 (BD-8)



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)

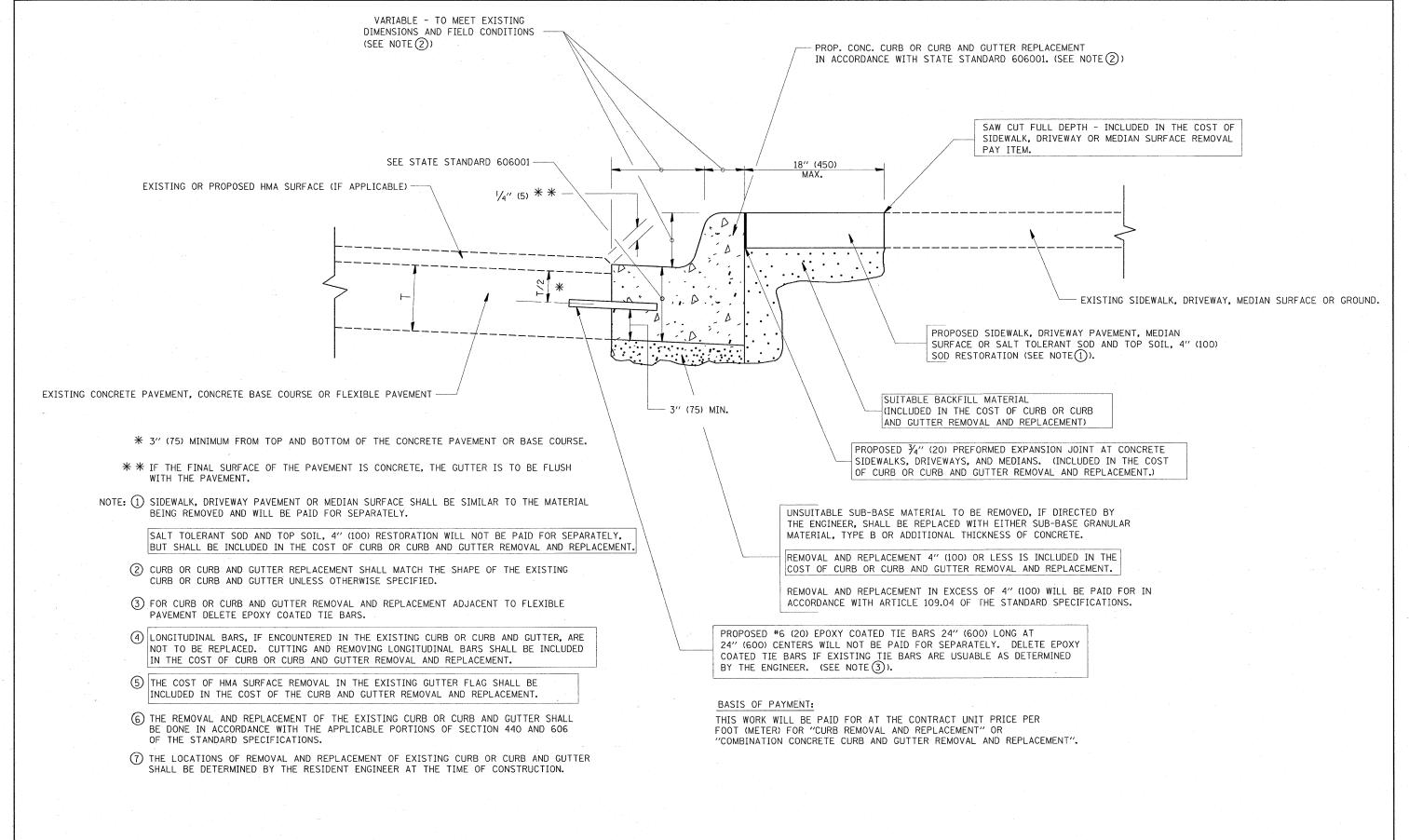
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

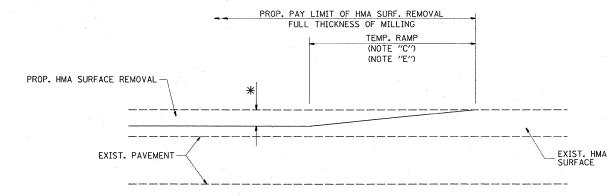
FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\PWIDOT\PARAYNOAL\d0120880\D	stStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS	HMA SURFACED PAVEMENT	344	44RS-1	LAKE	25 14
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		B	D400-04 (BD-22)	CONTRACT	NO. 60F42
	PLOT DATE = 3/19/2009	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

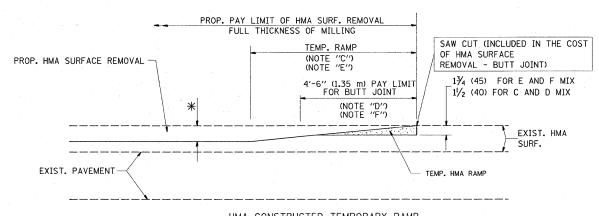
FILE NAME =	USER NAME ≈ paraymoal	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\PWIDOT\PARAYNOAL\dØ12Ø88Ø\Di	stStd.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	REMOVAL AND REPLACEMENT	344 44RS-1	LAKE 25 15
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		BD600-06 (BD-24)	CONTRACT NO. 60F42
	PLOT DATE = 3/19/2009	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.	. AID PROJECT



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

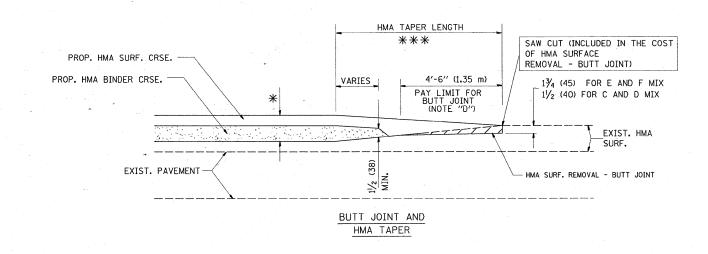


HMA CONSTRUCTED TEMPORARY RAMP

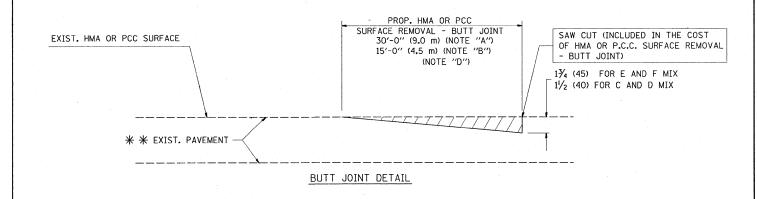
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

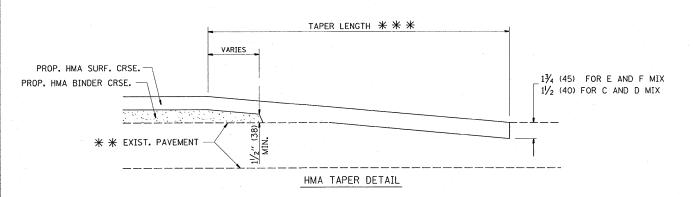
OPTION 2

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.

BASIS OF PAYMENT:

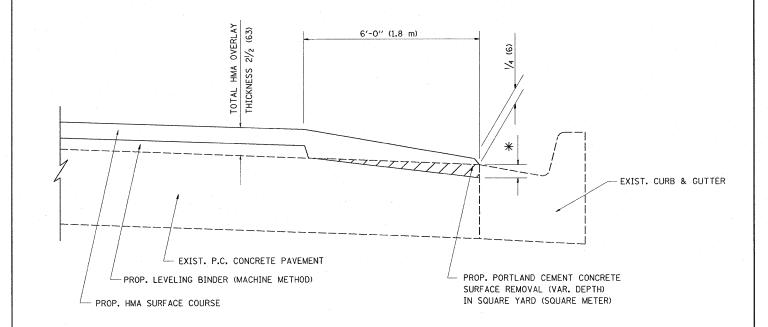
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

FILE NAME =	USER NAME = paraynoal	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	DEPARTMEI
	PLOT DATE = 3/19/2009.	DATE - 06-13-90	REVISED - R. BORO 01-01-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	BUTT J	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
							LAKE .	25	16
	HMA TAP	BD400-05 BD32 CONTRACT NO. 6							
SCALE: NONE	SHEET NO. 1 OF 1 SHI	ETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



HMA TAPER AT EDGE OF P.C.C PAVEMENT

HMA SURFACE		LEVELING BINDER	
MIX	THICKNESS	THICKNESS	★ MILLING AT GUTTER FLAG
C OR D	11/2 (38)	1 (25)	11/4 (33)
F	1¾ (44)	3/4 (19)	11/2 (38)

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

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94		HMA TAPER AT	F.A. P. SECTION	COUNTY SHEETS NO.
c:\pw_work\PWIDOT\PARAYNOAL\d0120880\D	stStd.dgn	DRAWN - JIS	REVISED - A. ABBAS 05-05-99	STATE OF ILLINOIS	· · · · · · · · · · · · · · · · · · ·	344 44RS-1	LAKE 25 17
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - A. ABBAS	REVISED - E. GOMEZ 12-21-00	DEPARTMENT OF TRANSPORTATION	EDGE OF P.C.C. PAVEMENT	BD400-06 (BD33)	CONTRACT NO. 60F42
	PLOT DATE = 3/19/2009	DATE - 09-10-94	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER		
UP TO 8" (200)	3′-6″ (1.1 m)	4′-0″ (1.2 m)	5'-0" (1.5 m)		
> 8" (200) T0 14" (360)	4'-0'' (1.2 m)	4'-6" (1.4 m)	5'~0" (1.5 m)		

TOM MATOUSEK

A. ABBAS

01-04-99

CHECKED

DATE

PLOT SCALE = 50.0000 '/ IN.

PLOT DATE = 3/19/2009

REVISED - T. MATOUSEK 10-02-00

REVISED - P. LAFLEUR 08-27-02

- T. MATOUSEK 04-25-02

REVISED

DESIGNER NOTE: THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"

LEGEND:

FILE NAME =

- 1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
- 2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT.
 RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT
- 3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
- 4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
- 5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
- 6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
- 7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
- 8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
- 9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

PCC PAVEMENT ROUNDOUTS AT

CURB AND GUTTER

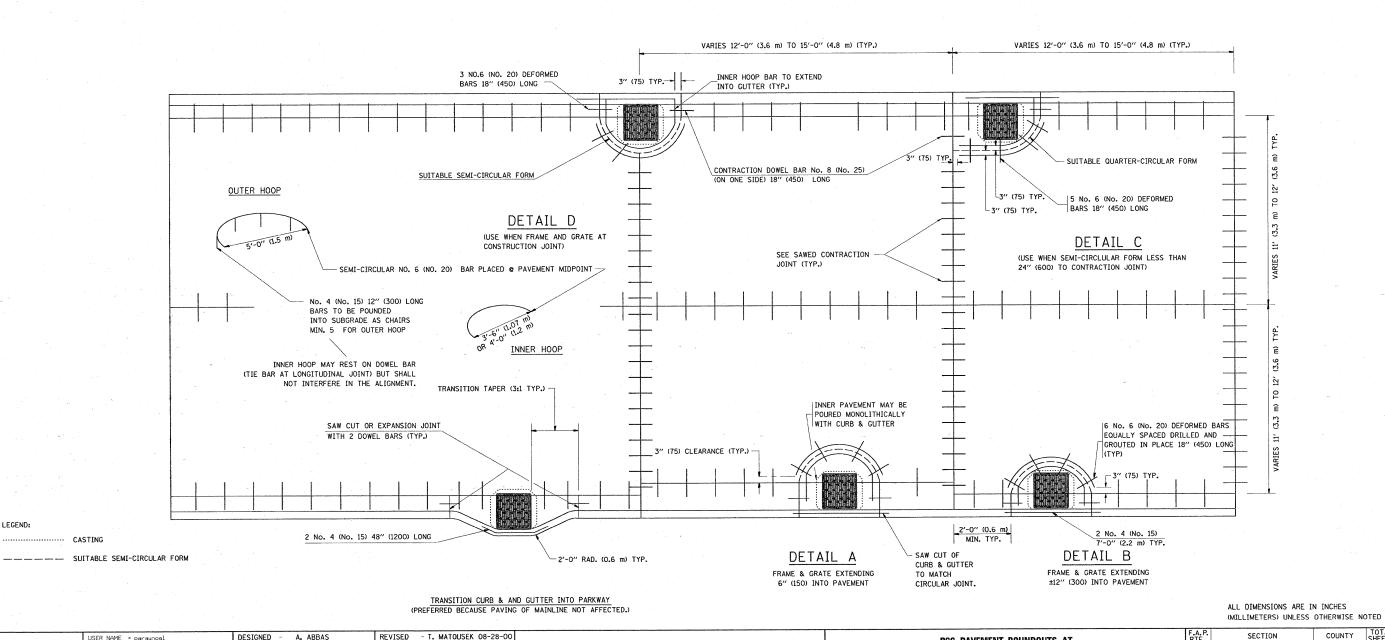
TO STA.

SHEET NO. 1 OF 1 SHEETS STA.

LAKE 25 18

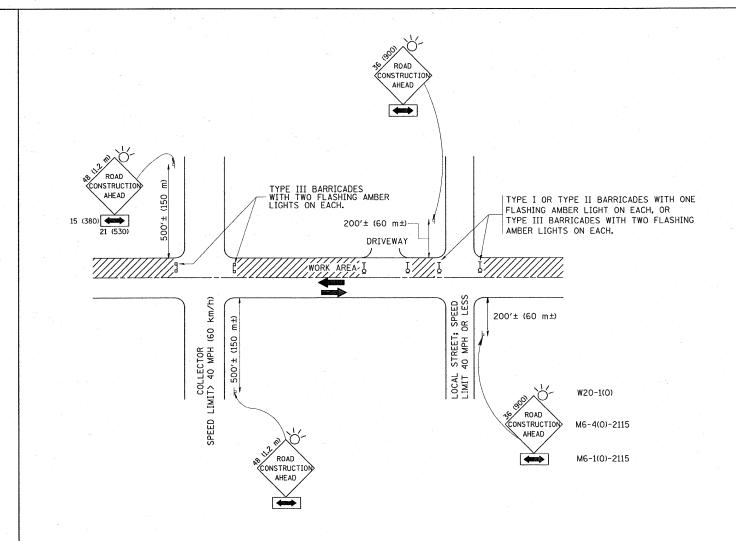
CONTRACT NO. 60F42

BD-48



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION



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:
- O) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE. OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 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).

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

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

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

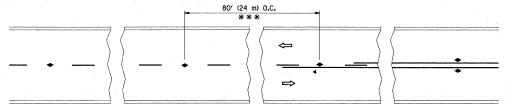
All dimensions are in millimeters (inches) unless otherwise shown.

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1		PLOT SCALE = 50.0000 '/ IN.	CHECKED			REVISED		A. HOUSEH 1	10-15-96
		PLOT DATE = 3/20/2009	DATE	-	06-89	REVISED	~T.	RAMMACHER	01-06-00
-						 			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

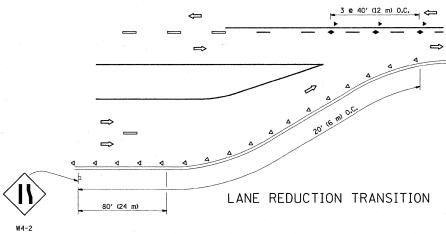
	TR	AFFIC		CON	TRO	L AND	PROTEC	TION FOR	
	SIDE	ROA	DS	, IN	TERS	SECTION	IS, AND	DRIVEWAYS	
SCALE: NONE	SHEET	NO.	1	OF	1	SHEETS	STA.	T	0

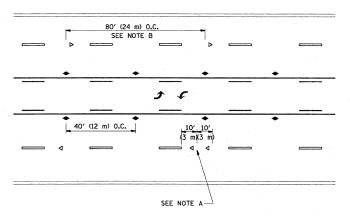
_	F.A.P. RTE.			SEC	TION		T	COUNTY	TOTAL SHEETS	SHEE'
	344			441	RS-1		LAKE	KE 25		
	TC-10							CONTRACT	NO. 6	OF42
	FED. F	ROAD	DIST. I	VO. 1	ILLINOIS	FED.	AID	PROJECT		



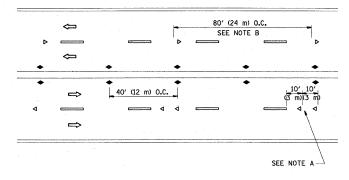
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

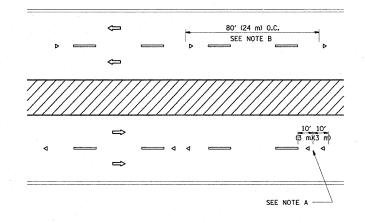




TWO-WAY LEFT TURN



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

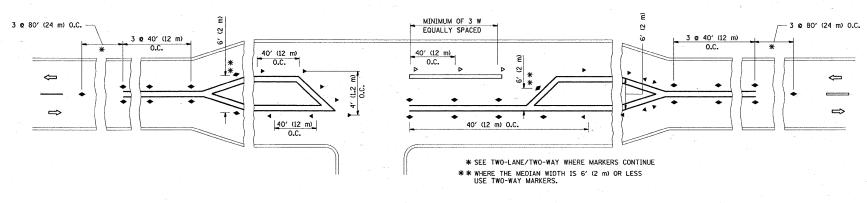
---- YELLOW STRIPE

WHITE STRIPE

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

DESIGN NOTES

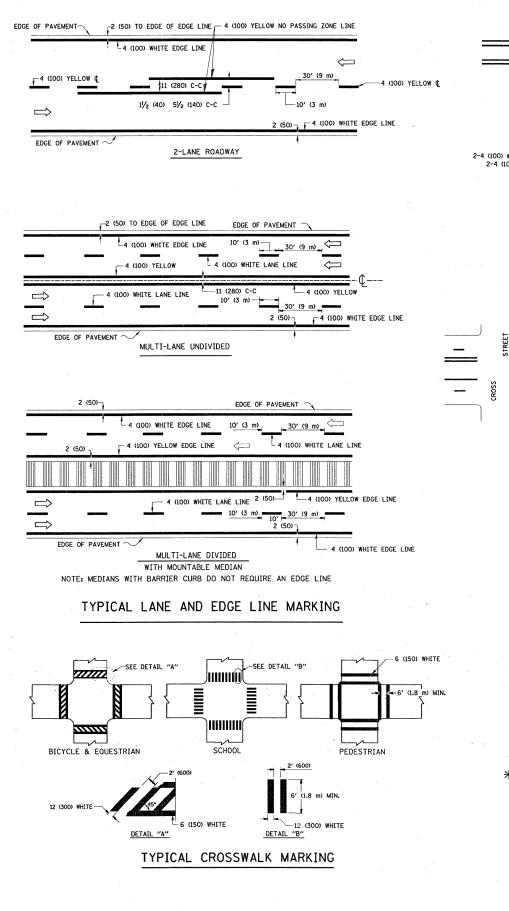
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD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

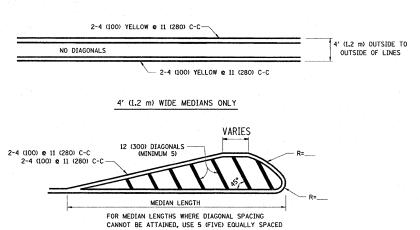


LEFT TURN

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

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS	F.A.P.	SECTION	COUNTY TOTA	FTS NO.
c:\pw_work\PWIDOT\PARAYNOAL\dØ12Ø88Ø\D:	stStd.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS		344	44RS-1	LAKE 25	5 20
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT NO.	. 60F42
· ·	PLOT DATE = 3/20/2009	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FE	D. AID PROJECT	

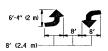




DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

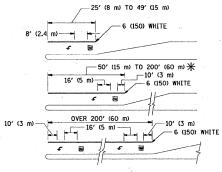
MEDIANS OVER 4' (1.2 m) WIDE 4 (100) YELLOW LINES (51/2 (140) C-C) 2-4 (100) YELLOW @ 11 (280) C-C 4 (100) YELLOW LINES (51/2 (140) C-C)

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

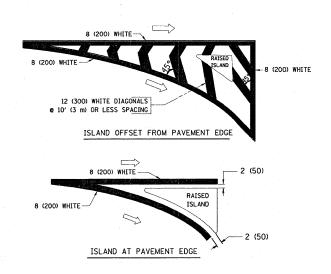


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) Π AREA = 20.8 SO. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

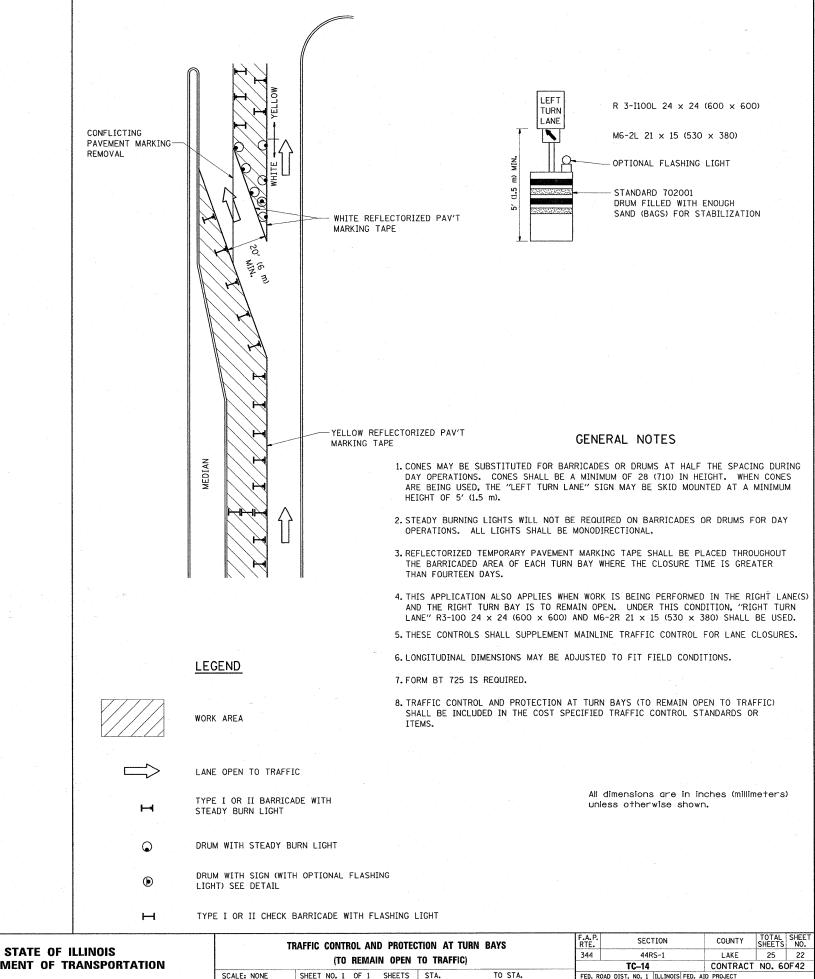
			·	
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (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; 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 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 ml 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 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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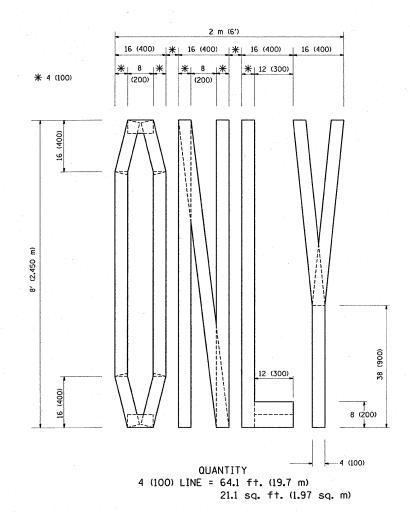
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FILE NAME =	USER NAME = paraynoal	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	F.A.P. SECTION COUNTY TOTAL SHEET NO.
c:\pw_work\PWIDOT\PARAYNOAL\dØ120880	DistStd.dgn	DRAWN -	REVISED -A. HOUSEH 10-09-96	STATE OF ILLINOIS		344 44RS-1 LAKE 25 21
	PLOT SCALE = 50.00000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	TC-13 CONTRACT NO. 60F42
	PLOT DATE = 3/20/2009	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

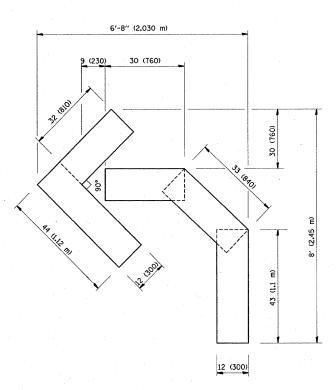


FILE NAME = DESIGNED REVISED -T. RAMMACHER 09-08-94 REVISED - A. HOUSEH 11-07-95 ıstStd.dqn ::\pw_work\PWIDOT\PARAYNOAL\dØ12088Ø PLOT SCALE = 50.0000 '/ IN. CHECKED REVISED - A. HOUSEH 10-12-96 PLOT DATE = 3/20/2009 DATE REVISED -T. RAMMACHER 01-06-00

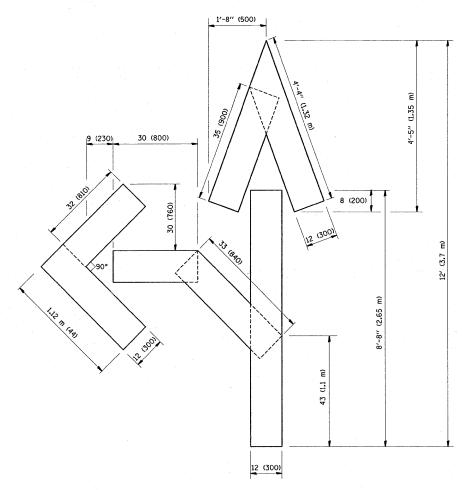
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT





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



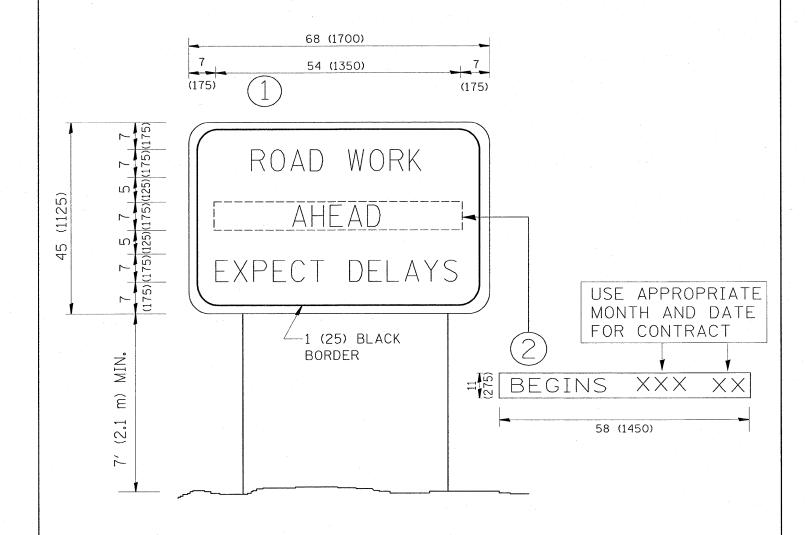
OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = paraynoal	DESIGNED	-		REVISED	-T.	RAMMACHER	06-05-96
c:\pw_work\PWIDOT\PARAYNOAL\dØ12Ø88Ø\D:	stStd.dgn	DRAWN	- :		REVISED	-T.	RAMMACHER	11-04-97
	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-		REVISED	-T.	RAMMACHER	03-02-98
	PLOT DATE = 3/20/2009	DATE	-	09-18-94	REVISED	- E.	GOMEZ 08-2	28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	PAVEMENT	MARKI	NG LETTE	RS AND	SYMBOLS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE
		EAD T	DAEEIC CT	ACING		344	44RS-1	LAKE	25	23
FOR TRAFFIC STAGING							TC-16	CONTRACT	NO. 60)F42
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. R	OAD 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.

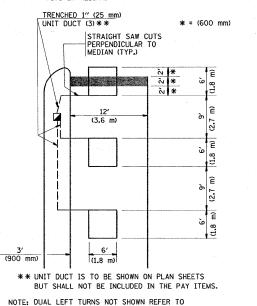
FILE NAME = ·	USER NAME = paraynoal	DESIGNED -	REVISED -	R. MIRS 09-15-97			ARTERIAL ROAL	n ·	F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEET NO.
c:\pw_work\PWIDOT\PARAYNOAL\dØ120880\Di	stStd.dgn	DRAWN -	REVISED ~	R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION S		344	44RS-1	LAKE	25 24
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T.	. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFURMATION 3			TC-22	CONTRACT	T NO. 60F42
`	PLOT DATE = 3/20/2009	DATE -	REVISED -	C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. RC	AD DIST. NO. 1 ILLINOIS F	ED. AID PROJECT	

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER PAVED OR NON-PAVED SHOULDER 1'' (25 mm) UNIT DUCT-TRENCHED TO E/P ** * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

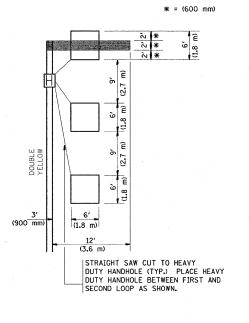
HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

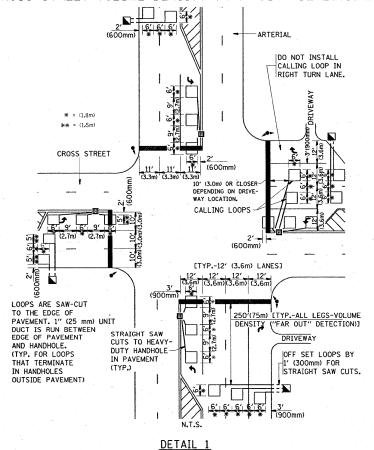


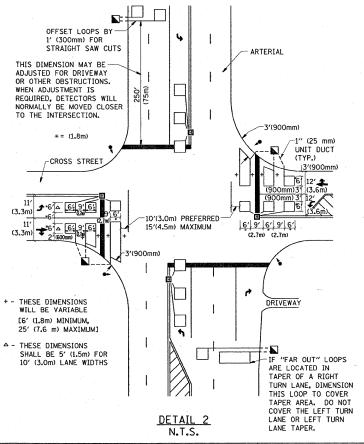
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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

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





NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

NOTF:

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

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

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	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 3/20/2009	DATE -	REVISED -

N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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	DE	TA	LS	FOR	ROADW	AY RESU	RFACING				344		
 SHEET	NO.	1	OF	1	SHEETS	STA.	141	TO	STA.	 	FED.	ROAD	DIST.

I	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	344	44RS-1		LAKE	25	25
_		TS-07		CONTRACT	NO. 60	DF 42
Г	FED. R	OAD DIST. NO. 1 ILLINOIS FE	D. AID	PROJECT		