

42 **i**---

**IMPROVEMENT BEGINS:** 

STA.: 35 + 59

OMISSION: STA. 61+07 TO STA. 65+70

1

WOODSTOC

HEBRON

ALDEN

HARTLAND

FRANKLINVILLE

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

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

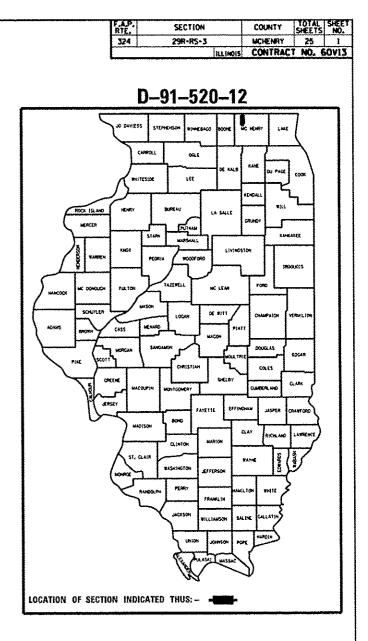
**PROJECT ENGINEER: ALAIN MIDY** (847) 221-3056 (847) 705-4178 **PROJECT MANAGER: ISSAM RAYYAN** 

GROSS LENGTH = 5558 FT. = 1.0527 MILE NET LENGTH = 5095 FT. = 0.9650 MILE

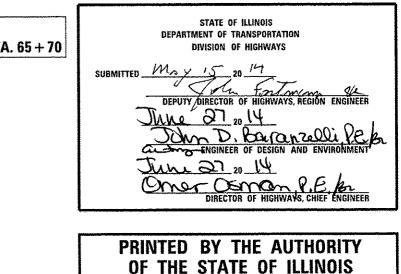
# CONTRACT NO. 60V13

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# 2013 ADT = 15500 SPEED LIMIT = 35-45 MPH



### **INDEX OF SHEETS**

1	COVER SHEET	482011-03	HMA SHLD. ST
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES		AND RESURFAC
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8-10	ROADWAY AND PAVEMENT MARKING PLAN	701306-03	LANE CLOSURE FOR SPEEDS ≿
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	REPLACEMENT (BD-24)	886001-01	DETECTOR LOO
18	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	886006-01	TYPICAL LAYO
19	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS.		
	INTERSECTIONS. AND DRIVEWAYS (TC-10)		
20	TYPICAL APPLICATIONS RAISED REFLECTIVE		
	PAVEMENT MARKERS (TC-11)		
21	DISTRICT 1 TYPICAL PAVEMENT MARKING (TC-13)		
22	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS		
	(TO REMAIN OPEN TO TRAFFIC) (TC-14)		
23	PAVEMENT MARKING LETTERS AND SYMBOLS FOR		
	TRAFFIC STAGING (TC-16)		
24	ARTERIAL ROAD INFORMATION SIGN (TC-22)		
25	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR		
	ROADWAY RESURFACING		

### STATE STANDARDS

482011-03	HMA SHED, STRIPS/SHEDS, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W. DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L. 2W, SLOW MOVING OPERATIONS DAY ONLY. FOR SPEEDS $\geq$ 45 MPH
701311-03	LANE CLOSURE, 2L. 2W. MOVING OPERATIONS - DAY ONLY
701502-06	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTIONS LOOPS

### **GENERAL NOTES**

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

THE CITY OF HARVARD.

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

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

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

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

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 CONTACT THE IDOT ARTERIAL DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) TOS-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 11/2 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH. WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

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

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

FILE NAME =	USER NAME = rozagom	DESIGNED -	REVISED -		IND	EX OF SHEETS	STATE S	STANDARDS &	GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEE
ci/p=_mork/p=;dot/rategam/dQ312823/0152	12-ehi-plandign	DRAWN -	REVISED -	STATE OF ILLINOIS					324	29R-RS-3	NCHENRY 25 2	
	PLOT SCALE + 100.0000 1/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		U.S. ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST.			ZJ IU BRINK SI.			CONTRACT NO. 60VI
Defouit	PLOT DATE = 4/17/2014	DATE -	REVISED -		SCALE	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	ALD PROJECT

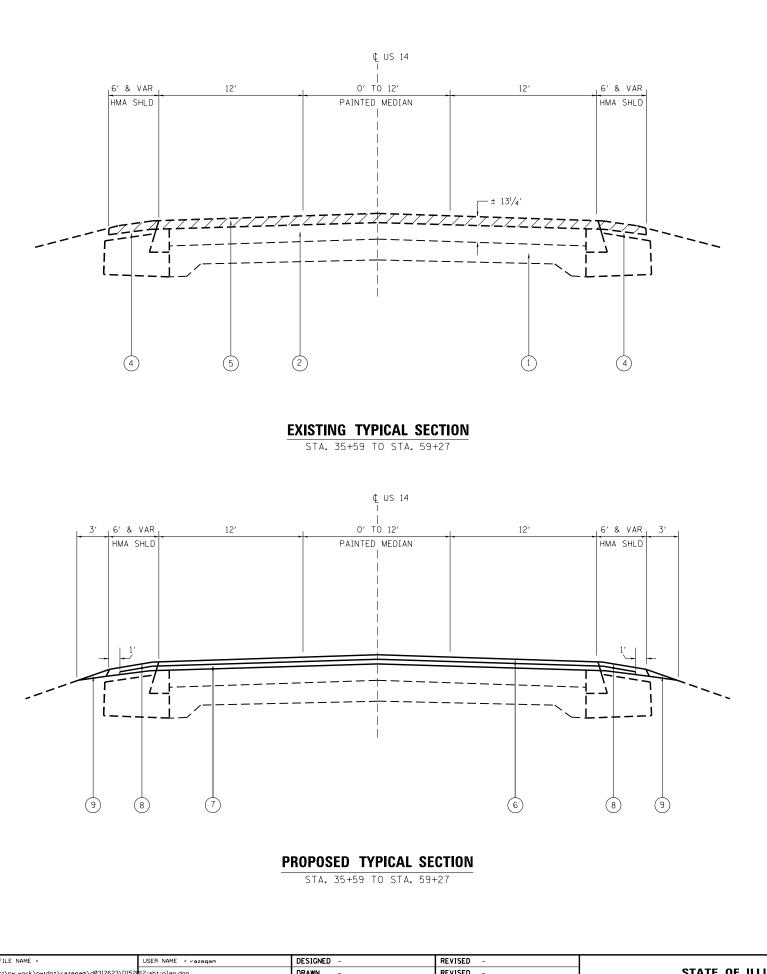
THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, TRAFFIC FIELD ENGINEER, AT (847) 715-8419 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

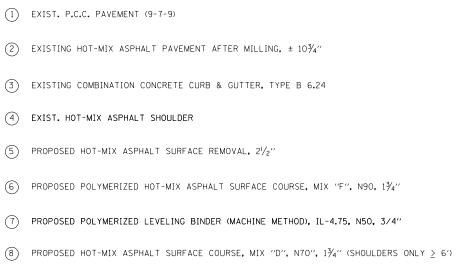
	SUMMARY OF QUANTITIES			ļ	CONSTRUC	TION TYPE	CODE			SUMMA	RY OF QUANTITIES	
			TOTAL									1
CODE NO	ITEM	UNIT	QUANTITIES	URBAN 0005 100% STATE	yr.				CODE NO		ITEM	UNIT
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	11	11					67000400	ENGINEER'S I	FIELD OFFICE. TYPE A	CAL NO
25200110	SODDING, SALT TOLERANT	SO YD	12 IL	11					67100100	MOBILIZATION	4	L SUN
40600400	MIXTURE FOR CRACKS, JOINTS, AND Flangeways	TON	48	48					70102622	TRAFFIC CONT STANDARD 70	TROL AND PROTECTION, 1502	l sum
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4,75, N50	TON	1290	1290					70102635	TRAFFIC CON STANDARD 70	TROL AND PROTECTION. 1701	L SUM
40600895	CONSTRUCTING TEST STRIP	EACH	2	2					70300100	SHORT TERM F	PAVEMENT MARKING	FOOT
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	265	265					70300210	TEMPORARY PA	AVEMENT MARKING LETTERS AND	50 FT
40603340	HOT-WEX ASPHALT SURFACE COURSE, WEX "D", NTO	TON	608	608					70300220	TEMPORARY PI	AVEMENT MARKING - LINE 4"	FOOT
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE.MIX "F". N90	TON	2525	2525					70300240	TEMPORARY P	AVEMENT MARKING - LINE 6"	F001
42001300	PROTECTIVE COAT	SO YD	22	22					70300250	TENPORARY PA	AVEMENT MARKING - LINE 8"	FOOT
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	32191	32191					70300260	TEMPORARY PI	AVENENT MARKING - LINE 12"	FOOT
44201798	CLASS D PATCHES. TYPE I. 13 INCH	50 YD	20	20					70300280	TEMPORARY PJ	AVEMENT MARKING - LINE 24"	FOOT
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	150	150					70301000	WORK ZONE PJ	AVEMENT MARKING REMOVAL	SO FT
44201807	CLASS D PATCHES, TYPE 111, 13 INCH	SO YD	50	50					* 78000100	THERMOPLAST	IC PAVEMENT MARKING - SYMBOLS	SO FT
44201809	CLASS D PATCHES, TYPE IV. 13 INCH	50 10	150	150					* 78000200		IC PAVEMENT MARKING - LINE 4"	FOOT
									^			
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	222	222					* 78000400	THERMOPLAST	IC PAVEMENT WARKING - LINE 6"	FOOT
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4 REVISED					* <b>78000500</b>	THERMOPLAST	IC PAVEMENT MARKING - LINE 8"	FOOT
	epene03/2523-0/520/2-64-ploten DR PLOT SCALE + 0000000 */ In. CT	RAWN - HECKED - ATE -		REVISED REVISED REVISED	• •			STATE OF AENT OF T	ILLINOIS RANSPORTA	TION	SUMMARY SCALE: SHEET NO. 1 OF 2 S	

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370	370						
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2826	2826						
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370	370						
	L	<u></u>	F.A.P. RTE.	SEC	I T (ON	COUNTY	TOTAL SHEET HEETS NO.
ITIES			324		RS-3	MCHENRY	25 3 NO. 60V13
. T(	) STA.		FED. 8	DAD 0157. NO. 1	ILLINDIS FED. AL	2 PROJECT	(1+00 100.

	SUMMARY OF QUANTITIES				C	ONSTRUCT	ION TYPE	CODE		1	SUMMARY (	F QUANTITIES					ONSTRUCT	ION TYPE	CODE	+
CODE NO	ITEM	UNI T	TOTAL QUANTITIES	URBAN 0005 100%						CODE NO		ITEM	UNIT	TOTAL OUANTITIES	U 86 AN					
				STATE											100% STATE					
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	F00T	720	720																
78000650	THERMOPLASTIC PAVEMENT WARKING - LINE 24"	FOOT	315	315																
							· · · · · · · · · · · · · · · · · · ·													
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	306	306																
	RAISED REFLECTIVE PAVEMENT MARKER																	-		
78300200	REMOVAL	EACH	306	306																
88600600	DETECTOR LOOP REPLACEMENT	FOOT	1593	1593																
×2020110	GRADING AND SHAPING SHOULDERS	UNIT	50	50																
		Douted	21006	21096																<u> </u>
x4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	21096	21030		·····														
x6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	8	8											*					
													-							
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	65	65						ļ										
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	180	180																
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2	* SPECIALTY ITEMS	ICNED -	l	REVISED	L	L	1	<u> </u>		1	lT		1	<u> </u>	<u> </u>	F,A.P		TION	CONTY	TOTAL SHE
FILE NAME =	00mr0031262310152012-sm-plon 190 DRA	111N -		REVISED	-		ĺ	\$	STATE OF I	LLINOIS			/ OF A11-1	ITIFO		F,A,P RTE, 324	298	-85-3	COUNTY MCHENRY CONTRACT	25 4
	PLDT SCALE + 100,0000 1/ In. CHE	CRED -		REVISED	-		1	DEPARTN	IENT OF TH	RANSPORTA	TION		OF QUANT						CONTRACT	NO. 60VI
	PLOT DATE = 4/0/2014 DAT	E -		REVISED	-						SCA	EI SHEET NO. 2 OF 2	SHEETS STA	<u>ا</u>	O STA	FED.	NOAD DIST. NO. 1	ILLINDIS FED. A	D PROJECT	



# LEGEND



(9)	PROPOSED	AGGREGATE	WEDGE	SHOULDER,	TYPE	В
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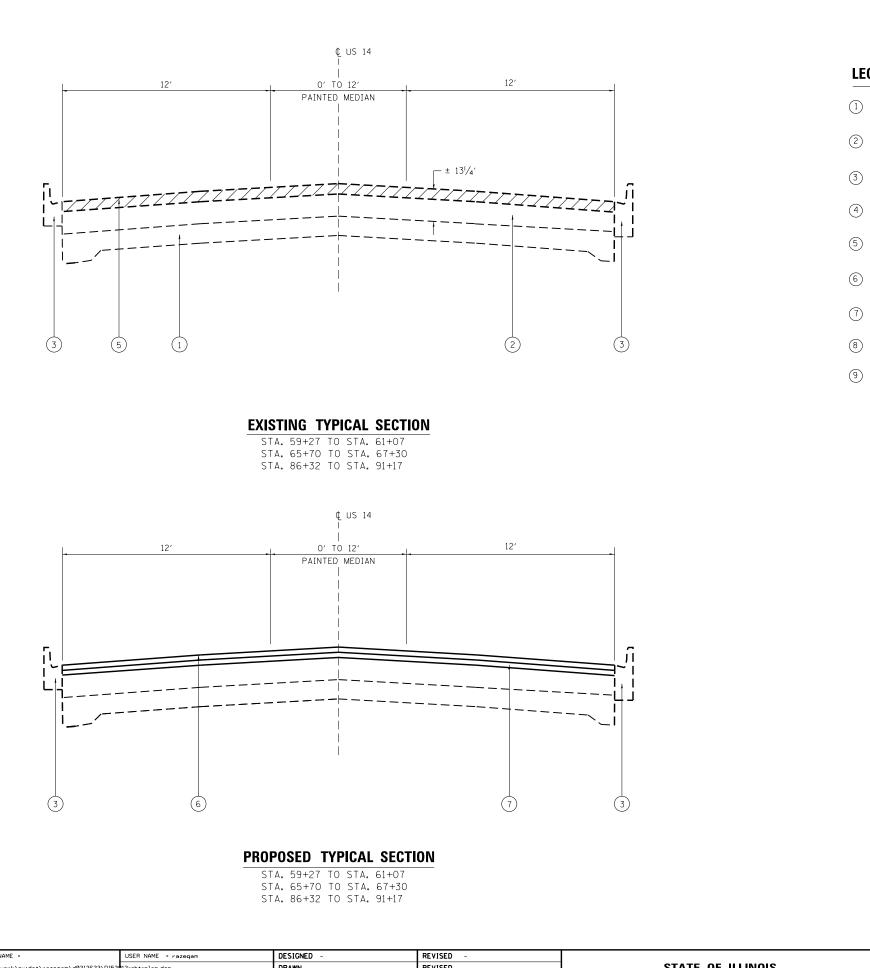
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT
MIXTURE TYPE	AIR VOIDS @ Ndes	PROGRAM (QMP)
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR	QCP
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) (SHOULDER WIDTH $\geq$ 6')	4.0% @ 70 GYR	QC /QA
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,MIX "F", N90 (IL 9.5 mm)	4.0% @ 90 GYR	QCP
CLASS D PATCHES, (HMA BINDER IL-19 mm)	4.0% @ 70 GYR	AD/ JD
QMP DESIGNATION: Quality Control/Quality Assurance (QC/QA); Quality	Control for Performa	nce (QCP)

### NOTES

- 1.) THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LB/SY/IN.
- 3.) THE CONTRACTOR SHALL MILL FIRST, BEFORE PATCHING.

F	ILE NAME =	USER NAME = razeqam	DESIGNED -	REVISED -		ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST.	F.A.P.	SECTION	COUNTY TOTAL	AL SHEET	
c	:\pw_work\pwidot\razeqam\d0312623\D1520	12-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		EXISTING & PROPOSED TYPICAL SECTIONS	324	29R-RS-3	MCHENRY 25	5
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.				CONTRACT NO.	60V13
C	efault	PLOT DATE = 4/17/2014	DATE -	REVISED -					ILLINOIS FED. AID PROJECT		

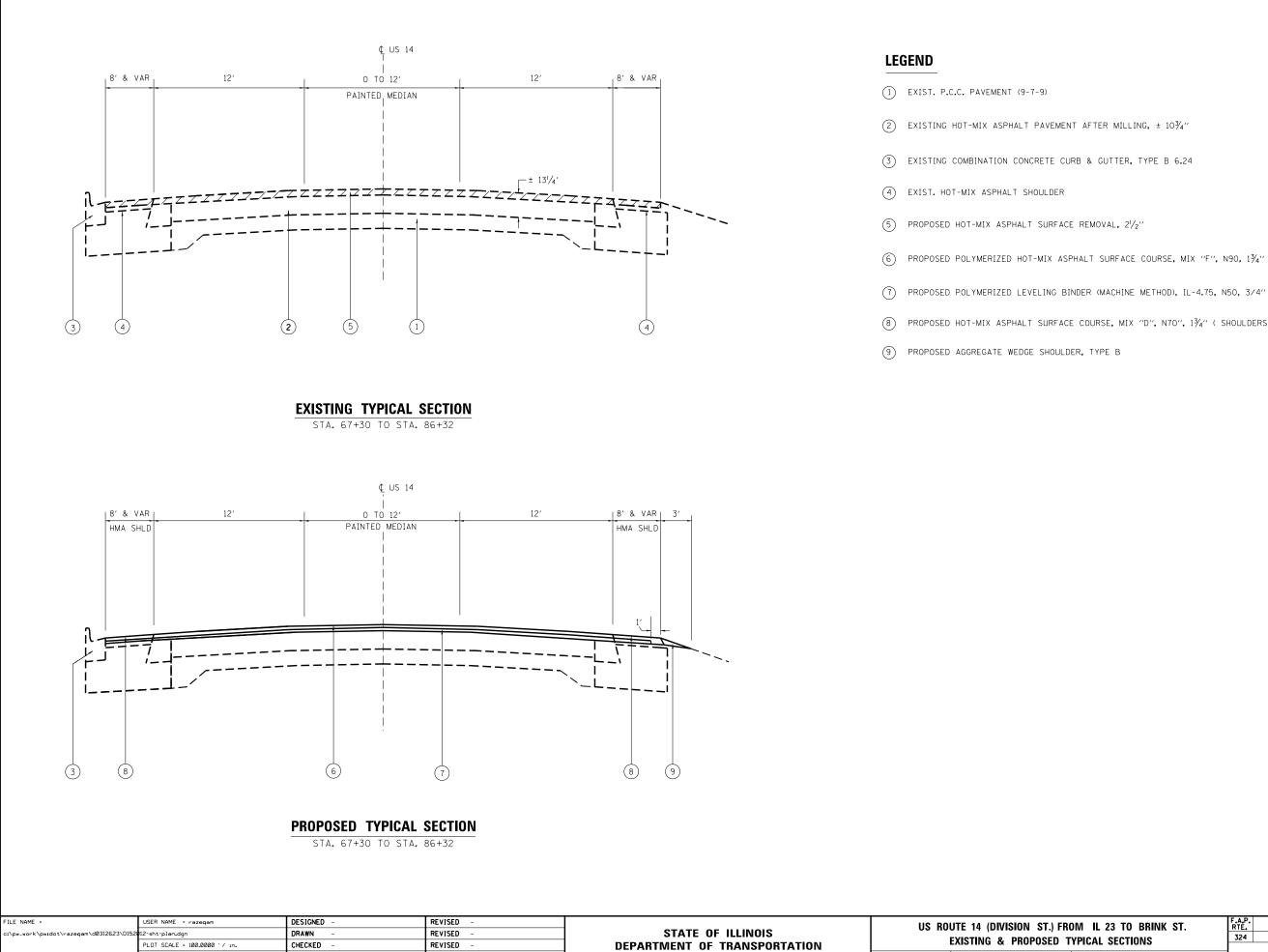
2.) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



### LEGEND

- (1) EXIST. P.C.C. PAVEMENT (9-7-9)
- (2) EXISTING HOT-MIX ASPHALT PAVEMENT AFTER MILLING,  $\pm$  10  $\frac{3}{4}$ "
- (3) EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B 6.24
- (4) EXIST. HOT-MIX ASPHALT SHOULDER
- (5) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL,  $2^{1}/_{2}^{\prime\prime}$
- (6) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90,  $1\frac{3}{4}$ "
- (7) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (8) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70", 1<sup>3</sup>/<sub>4</sub>" (Shoulders only)
- (9) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

Γ	ILE NAME =	USER NAME = razeqam	DESIGNED -	REVISED -		US ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST. EXISTING & PROPOSED TYPICAL SECTIONS SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.		F.A.P.	SECTION	COUNTY TOTAL SHEFTS	SHEET NO.
	:\pw_work\pwidot\razeqam\d0312623\D152	12-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS			324	29R-RS-3	MCHENRY 25	6
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 6	JV13
	Default	PLOT DATE = 4/17/2014	DATE -	REVISED -					ILLINOIS FED. A		



Default

PLOT DATE = 4/17/2014

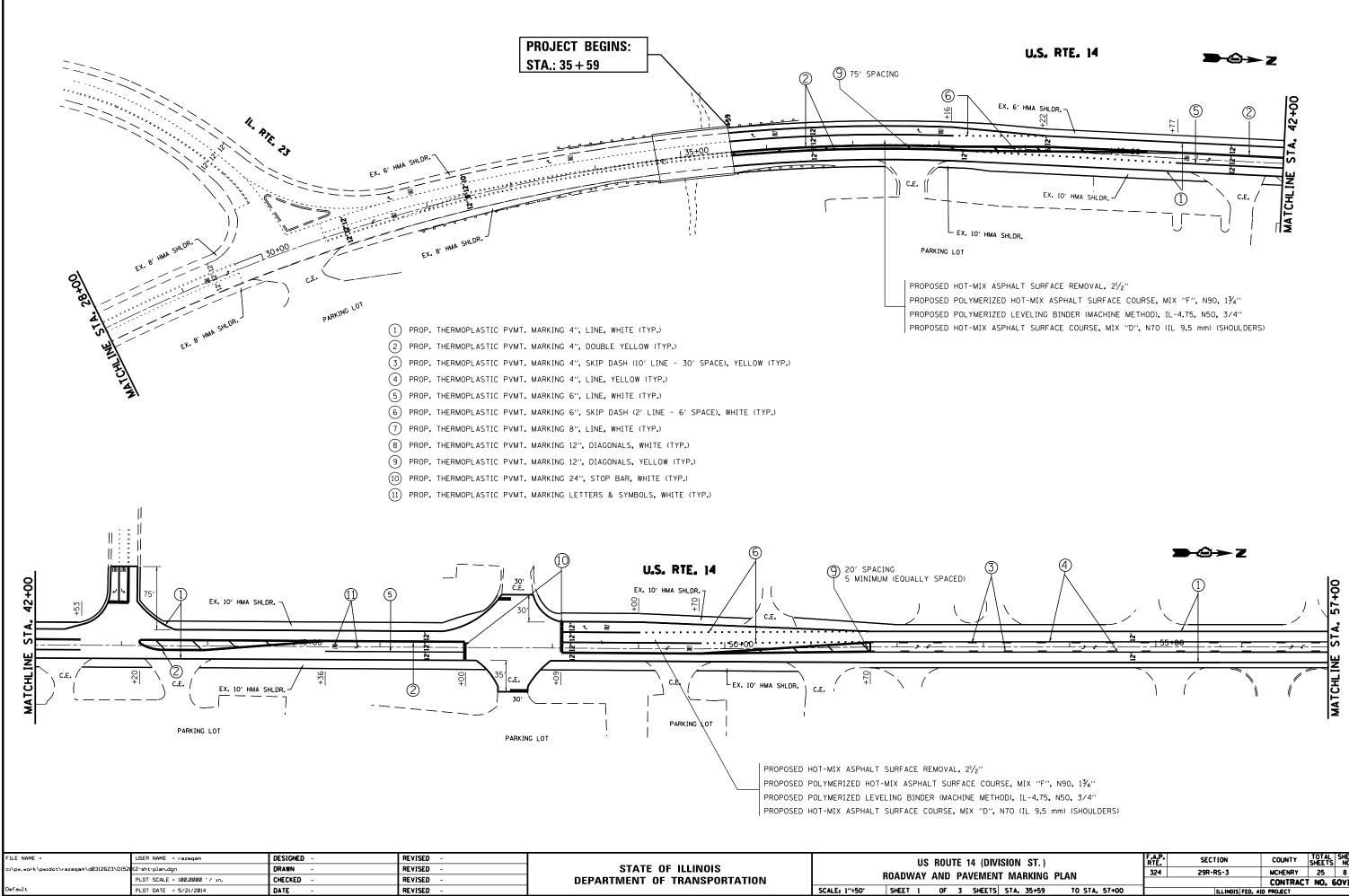
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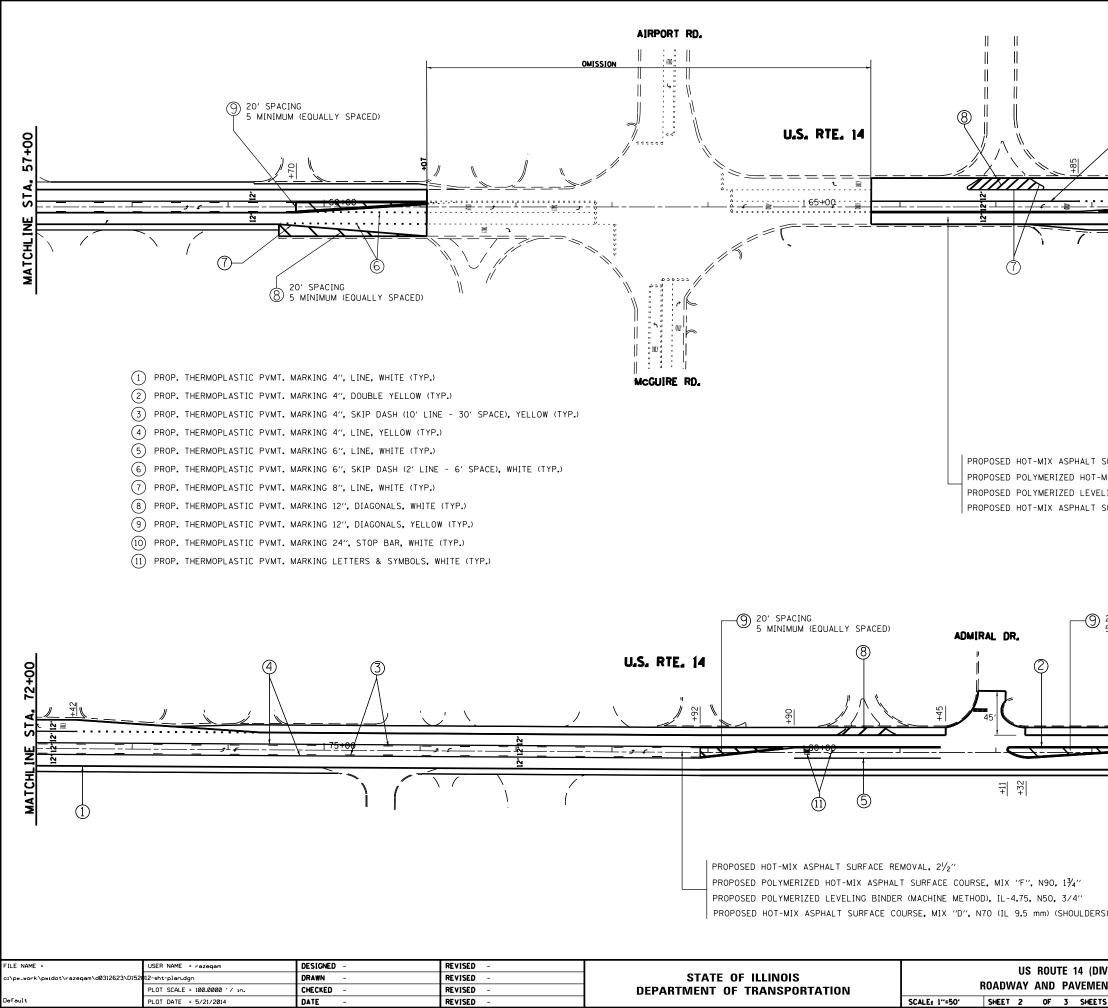
(8) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70", 1<sup>3</sup>/<sub>4</sub>" ( SHOULDERS ONLY)

ROUTE 14 (DIVISION ST.) FROM IL 23 TO BRINK ST.	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EXISTING & PROPOSED TYPICAL SECTIONS	324	29R-RS-3	MCHENRY	25	7
			CONTRACT	NO. 6	50V13
SHEET 3 OF 3 SHEETS STA. TO STA.					

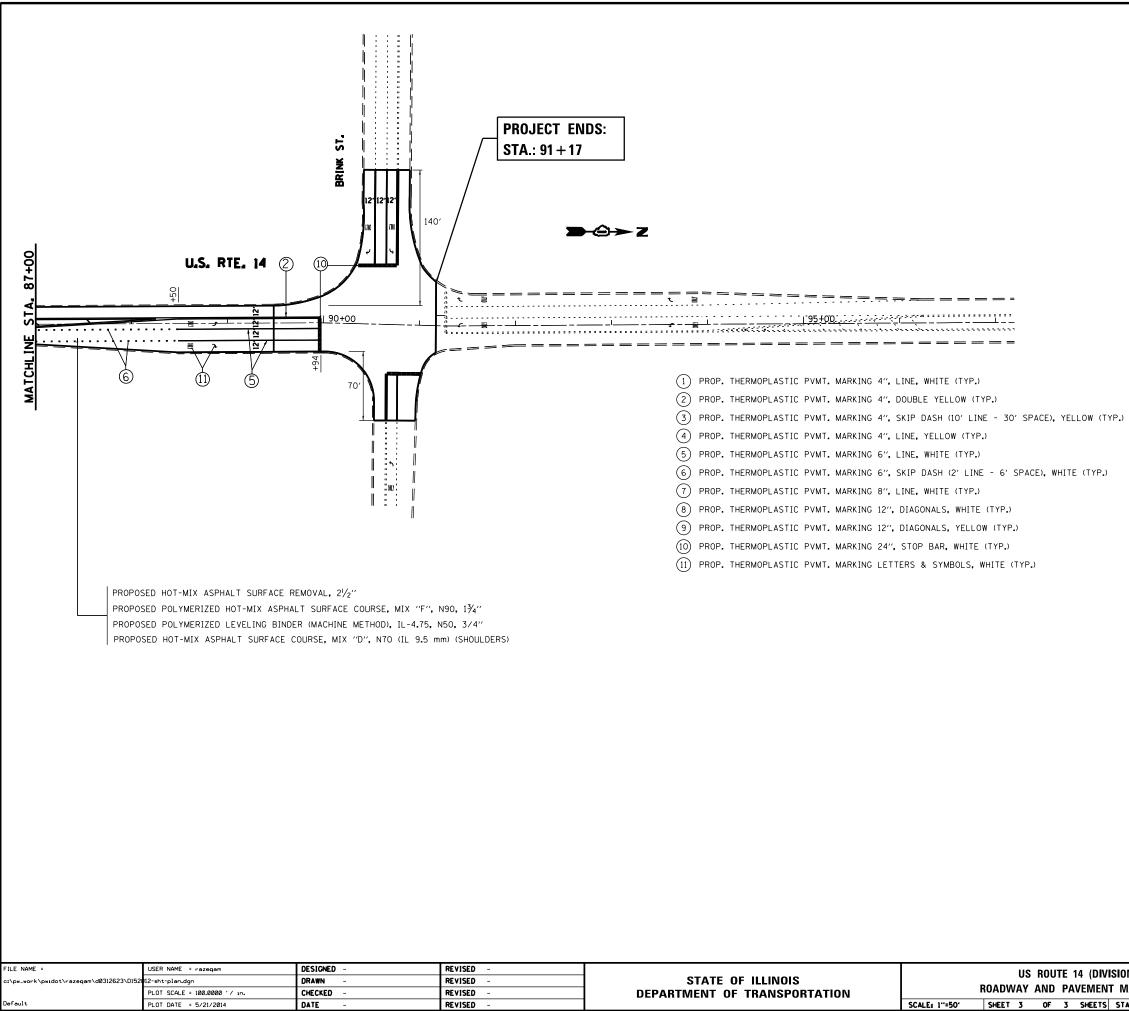
SCALE:



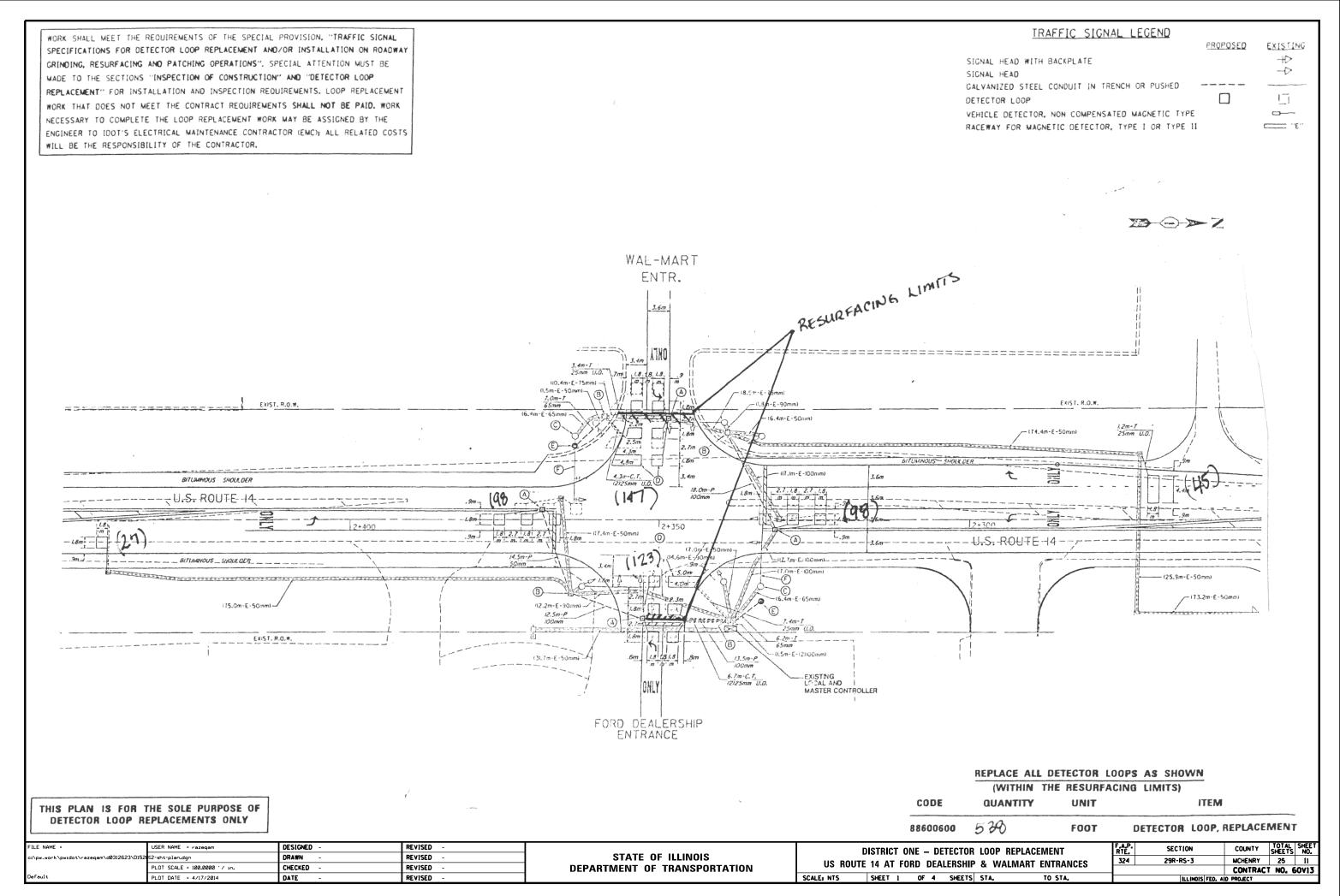
IVISION ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NT MARKING PLAN	324	29R-RS-3	MCHENRY	25	8
			CONTRACT	NO. E	60V13
TS STA. 35+59 TO STA. 57+00		ILLINOIS FED. A	ID PROJECT		



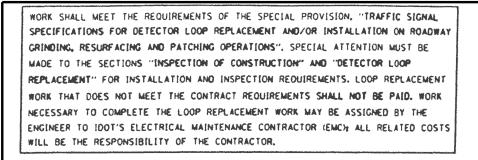
S ( ) ) ( ) ( ) ( ) ( ) ) ( ) ( ) ) ( ) ) ( ) ( ) ( ) ) ( ) ) ( ) ( ) ) ( ) ) ( ) ( ) ) ( ) ) ( ) ) ( ) ) ( ) ( ) ( ) ( ) ) ) ( ) ) ) ( ) ) ) ) ) ( ) ) ) ) ) ) ) ) ) ) ) ) )	• • • • • • • • • • • • • • • • • • •			MATCHLINE STA. 72+00
SURFACE REMOVAL, 2 <sup>1</sup> /2'' -MIX ASPHALT SURFACE COURSE, MIX ELING BINDER (MACHINE METHOD), IL-4 SURFACE COURSE, MIX ''D'', N7O (IL	4.75, N5	0, 3/4″		
) 20' SPACING 5 MINIMUM (EQUALLY SPACED)			→ Z	AATCHLINE STA. 87+00
<b>२</b> ८)		9 50' SPACING 5 MINIMUM (EQUA		וכ
IVISION ST.) ENT MARKING PLAN	F.A.P. RTE. 324	SECTION 29R-RS-3	COUNTY MCHENRY CONTRAC	TOTAL SHEET SHEETS NO. 25 9 T NO. 60V13
TS STA. 57+00 TO STA. 87+00		ILLINOIS FED. AI		

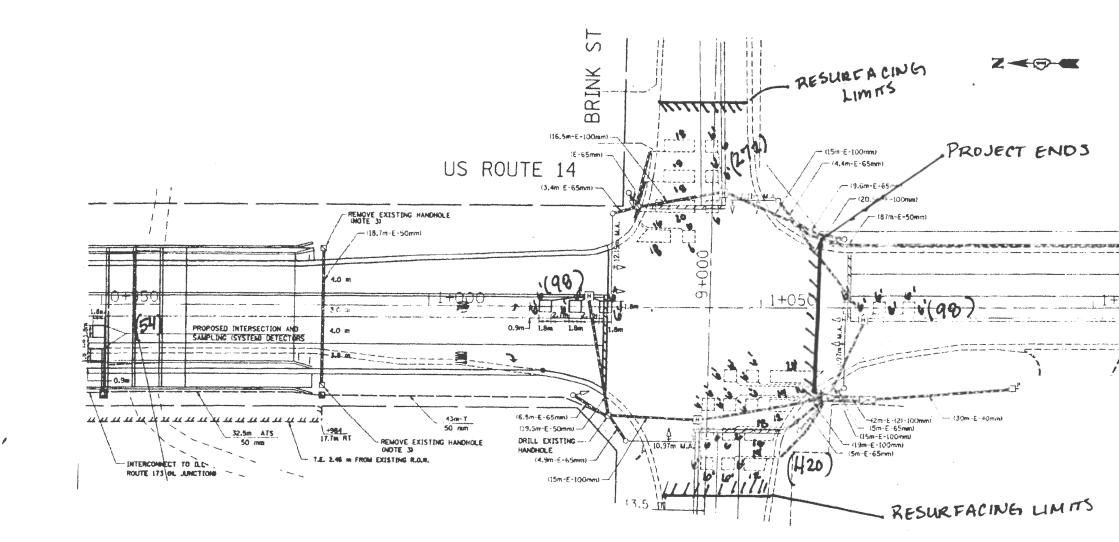


IVISION ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ENT MARKING PLAN		29R-RS-3 MCHENRY 25			
			CONTRACT	i no, e	50V13
TS STA. 87+00 TO STA. 91+17		ILLINOIS FED, A	ID PROJECT		



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FILE NAME =	USER NAME = razeqam	DESIGNED -	REVISED -		DISTRICT ONE – DETECTOR LOOP REPLACEMENT	F.A.P. SECTION COUNTY TOTAL SHEET RTE. SHEETS NO.		
c:\pw_work\pwidot\razeqam\d0312623\D152	112-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	US ROUTE 14 AT BRINK ST.			
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	US RUUIE 14 AI BRINK SI.	CONTRACT NO. 60V13		
Default	PLOT DATE = 4/17/2014	DATE -	REVISED -		SCALE: NTS SHEET 2 OF 4 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND		
	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		-+1>
SIGNAL HEAD		$\neg \diamond$
GALVANIZED STEEL CONDULT IN TRENCH OR PUSHED		
DETECTOR LOOP		
CHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		<b>a</b>
ACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		· · ٤ · ·

REPLACE ALL DETECTOR LOOPS AS SHOWN

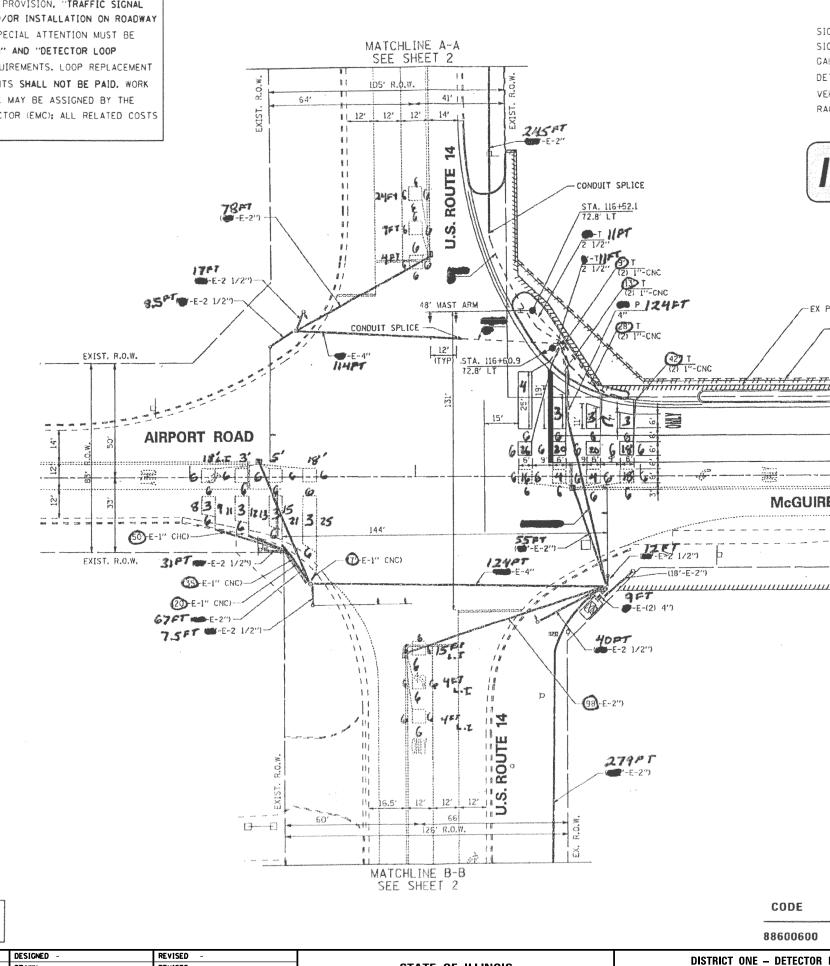
(WITHIN THE RESURFACING LIMITS)

QUANTITY UNIT

ITEM

QH2 DETECTOR LOOP, REPLACEMENT FOOT

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



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

SCALE: NTS

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FILE NAME =

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

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USER NAME = razegam

PLOT SCALE = 100.0000 '/ in.

PLOT DATE = 4/17/2014

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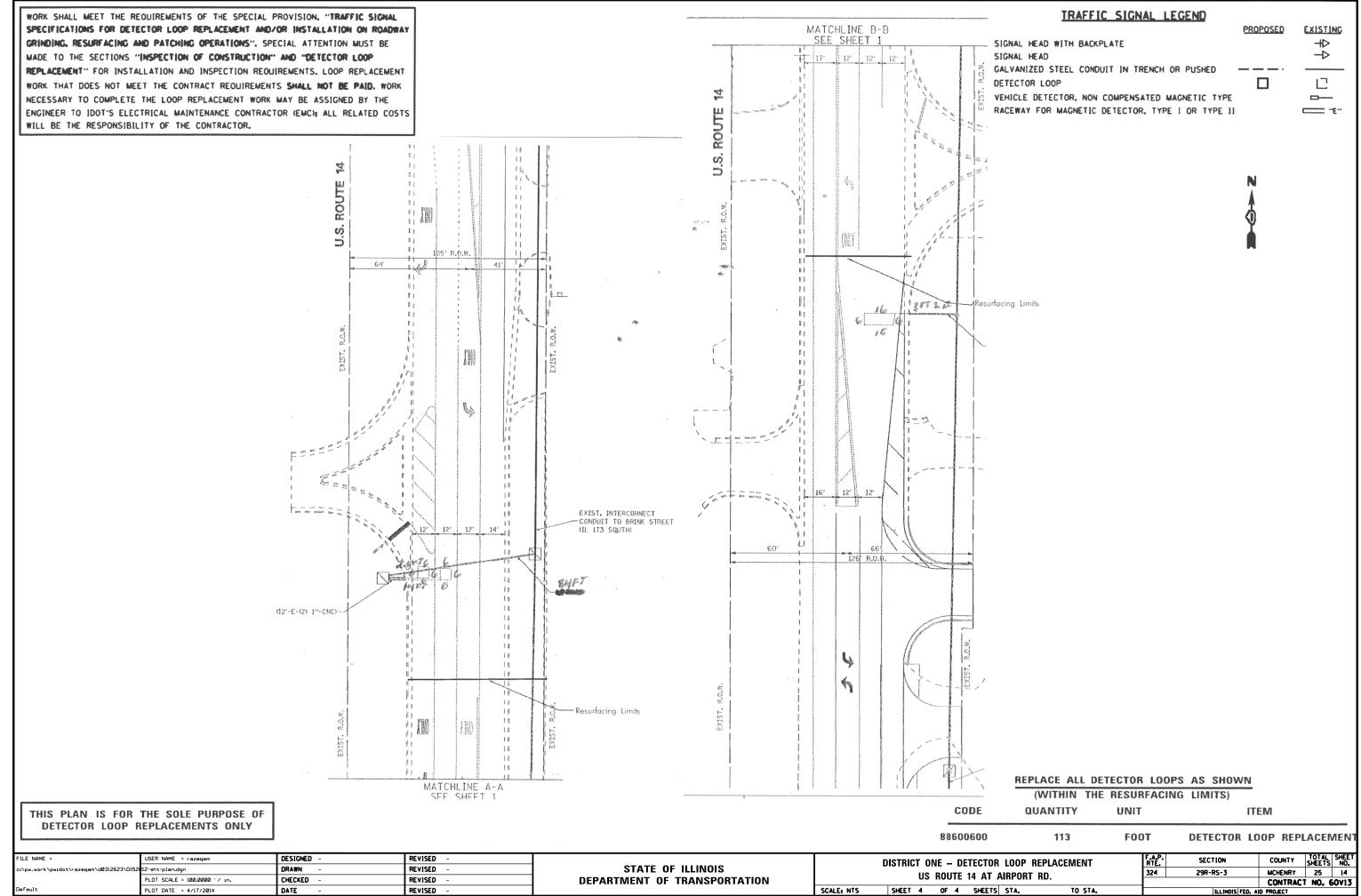
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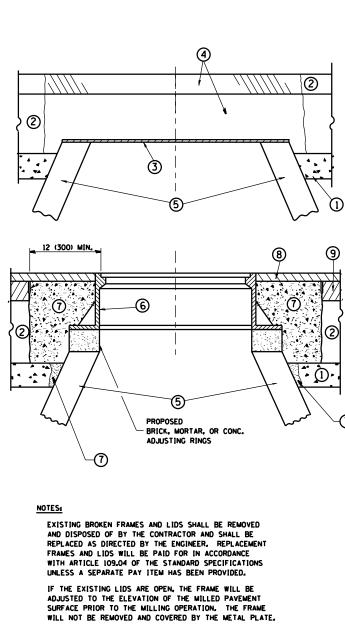
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		TR	AFFIC SIGN	AL L	EGEND			
						PROPO	SED	EXISTING
		SIGNAL HEAD WITH	BACKPLATE					$\downarrow \land \land$
		GIGNAL HEAD	CONDUIT IN TH	ENCH	OR PUSHED			~
		ETECTOR LOOP						
		EHICLE DETECTOR	, NON COMPENS	ATED I	MAGNETIC TYPE			<b>—</b>
	F	ACEWAY FOR MAG	NETIC DETECTOR	, TYP	E I OR TYPE II			·Έ"
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		REPLACE A	LL DETECTOR	LOC	PS AS SHO	NN		
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	88600600	· 0	FOOT		DETECTOR			
DISTRICT ONE		LOOP REPLACEM		F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEET SHEETS NO.
		4 AT AIRPORT RD		324	29R-RS-3	0	CONTRACT	25 13 NO. 60V13
SHEET 3 C	)F4 SHEETS	STA, T(	O STAL		ILL INDIS	FED. AID PR	ROJECT	



REPLACE ALL DET	ECTOR LOOPS	AS SHOWN			
(WITHIN THE	RESURFACING	LIMITS)			
QUANTITY	UNIT	п	EM		
113	FOOT	DETECTOR L	OOP REPL	ACEN	/ENT
R LOOP REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AIRPORT RD.	324	29R-RS-3	MCHENRY CONTRACT	25 NO, 6	14 60V13



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.

## DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME =	USER NAME = razeqam	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04			DETAILS FOR	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\razeqam\d0312623\D152	112-sht-plan.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS			324 29R-RS-3	MCHENRY 25 15
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION			BD600-03 (BD-8)	CONTRACT NO. 60V13
	PLOT DATE = 4/17/2014	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS	

### 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  $1\frac{1}{2}$  (40)
- THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

### STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID: ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- \* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

### LEGEND

1	SUB-BASE GRANULAR MATERIAL	6 FRAME AND LID (SEE NOTES)
2	EXISTING PAVEMENT	(7) CLASS PP-1# CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	0
டு	EXISTING STRUCTURE	9 PROPOSED HMA BINDER COURSE

5 EXISTING STRUCTURE

### 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

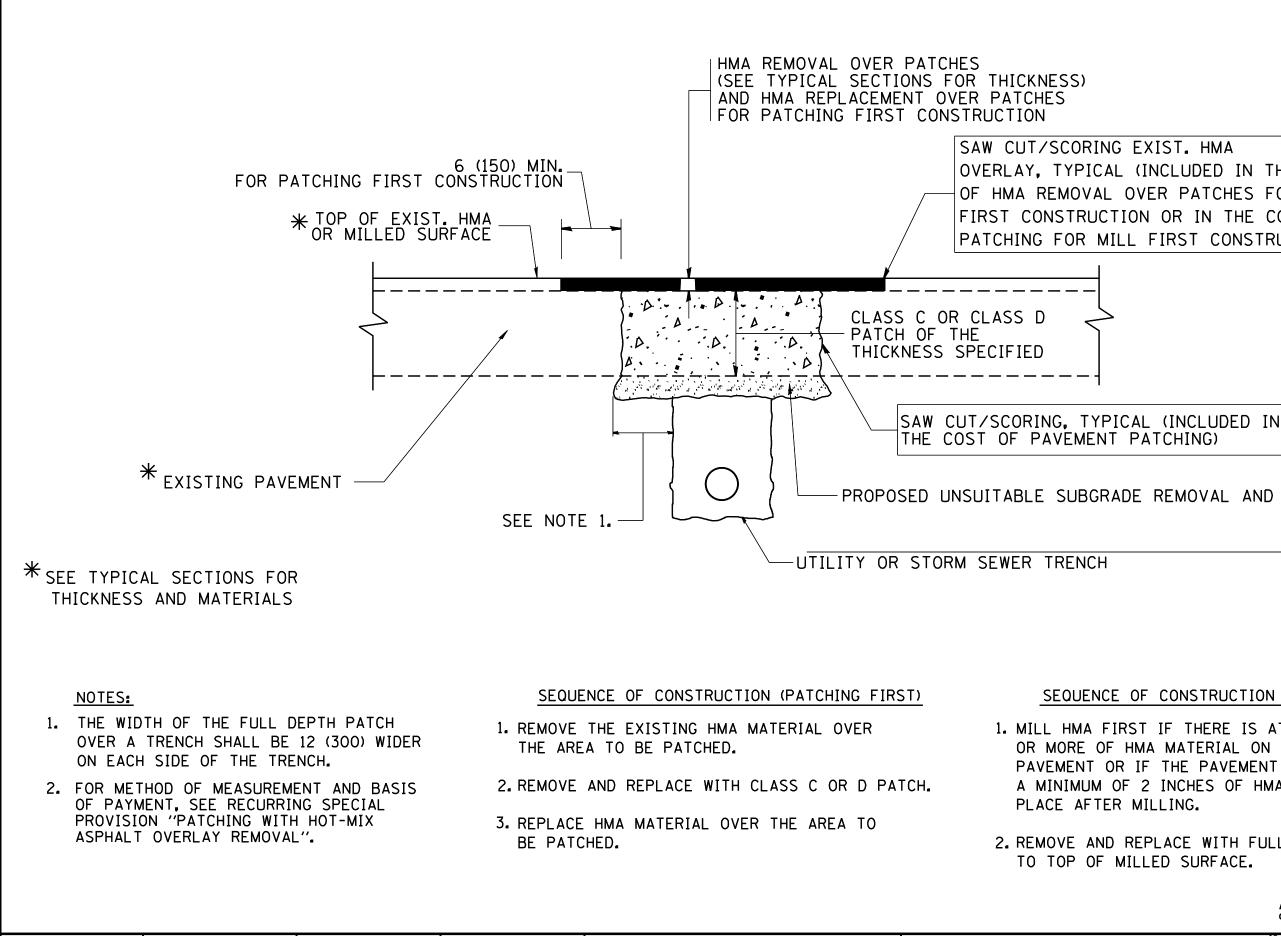
REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

	ALL	DIMENSIONS	ARE	IN	INCHES	(MILLIMETERS)	UNLESS	OTHERWISE	SHOWN	
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FILE NAME =	USER NAME = razeqam	DESIGNED - R, SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.P. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\razeqam\d0312623\D152	12-sht-plan.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		324 29R-RS-3	MCHENRY 25 16
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60V13
	PLOT DATE = 4/17/2014	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 ILLINDIS FED.	AID PROJECT

OVERLAY. TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

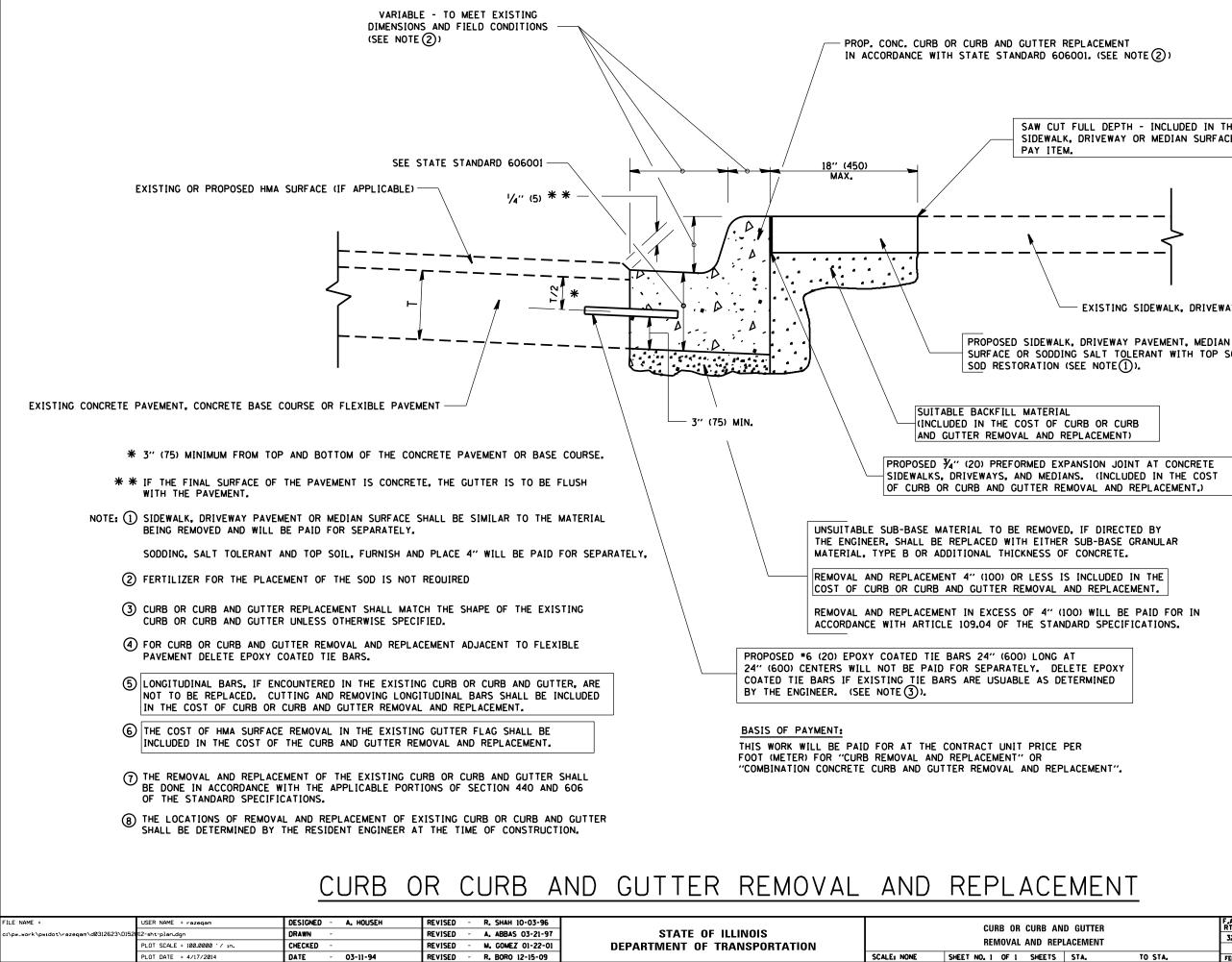
# PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

# SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST  $4\frac{1}{2}$  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

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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



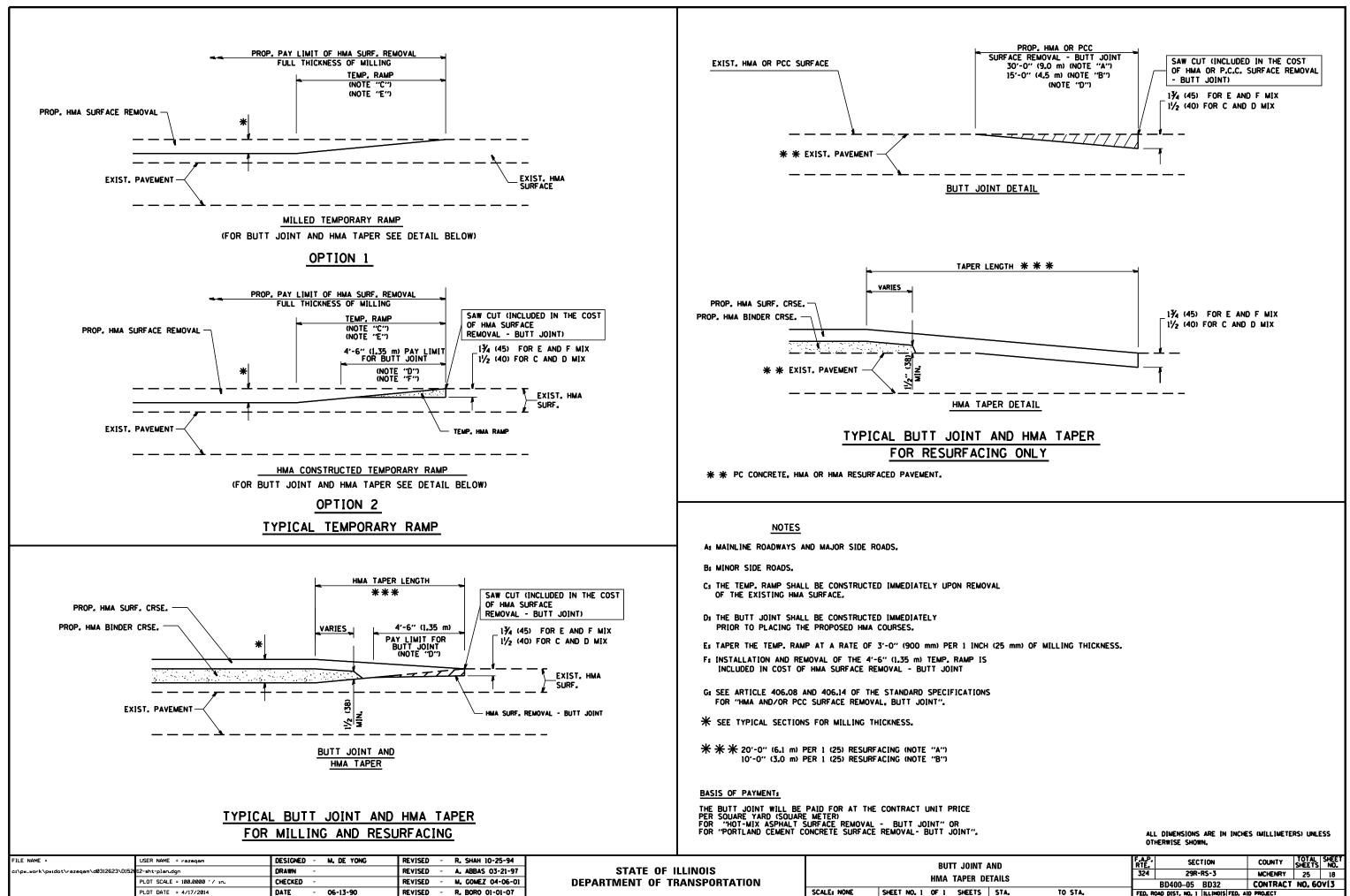
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE (1).

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

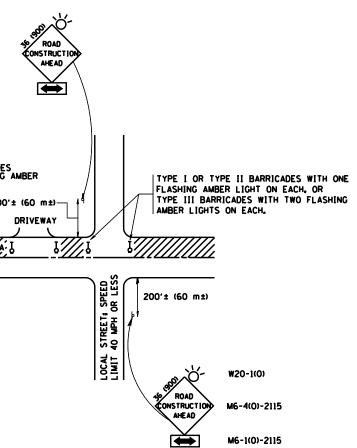
٩NI	D GUTTER		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
EPLACEMENT		324	29R-RS-3 MCHENRY 25 1						
			BD600-06 (BD-24)	CONTRACT	NO. E	50V13			
,	STA.	TO STA.	FED. R	FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT					



AND DETAILS		F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		324	29R-RS-3		MCHENRY	25	18
			BD400-05 BD32		CONTRACT	NO_ 60	v13
STA.	TO STA.	FED. R	DAD DIST, NO, 1 ILLINOIS	FED. A	D PROJECT		

15 (380) 21 (530)	TYPE III BARRICADE WITH TWO FLASHING LIGHTS ON EACH. 200
	WORK AREA
	COLLECTOR COLLECTOR SPEED LIMIT> 40 MPH (60 km/h) BOUN ANT ROY ROY ROY ROY ROY ROY ROY ROY ROY ROY
NOTES:	ON THE SIDE ROAD OF DRIVEWAYS
	IMIT OF 40 MPH (60 km/h) OR LESS AS
SHOWN ON THE DRAWING AN O' ONE ROAD CONSTRUCTION	D AS DIRECTED BY THE ENGINEERS Ahead Sign 36 x 36 (900x900) with a flasher T Approximately 200' (60 m) in advance
	THE MAIN ROUTE SHALL BE PROTECTED BY TYPE II OR TYPE III BARRICADES, 1/3 OF THE CLOSED PORTION.
	IMIT GREATER THAN 40 MPH (60 km/h) AND AS DIRECTED BY THE ENGINEERS
	AHEAD SIGN 48 x 48 (12 m x 12 m) WITH A Approximately 500' (150 m) in Advance
	THE MAIN ROUTE SHALL BE PROTECTED BY BARRICADES, 1/2 OF THE CROSS SECTION
SIGNING AND THE WORK ZON	BETWEEN THE BEGINNING OF THE MAINLINE NE, A SINGLE HEADED ARROW (MG-1) SHALL OUBLE HEADED ARROW (MG-4).

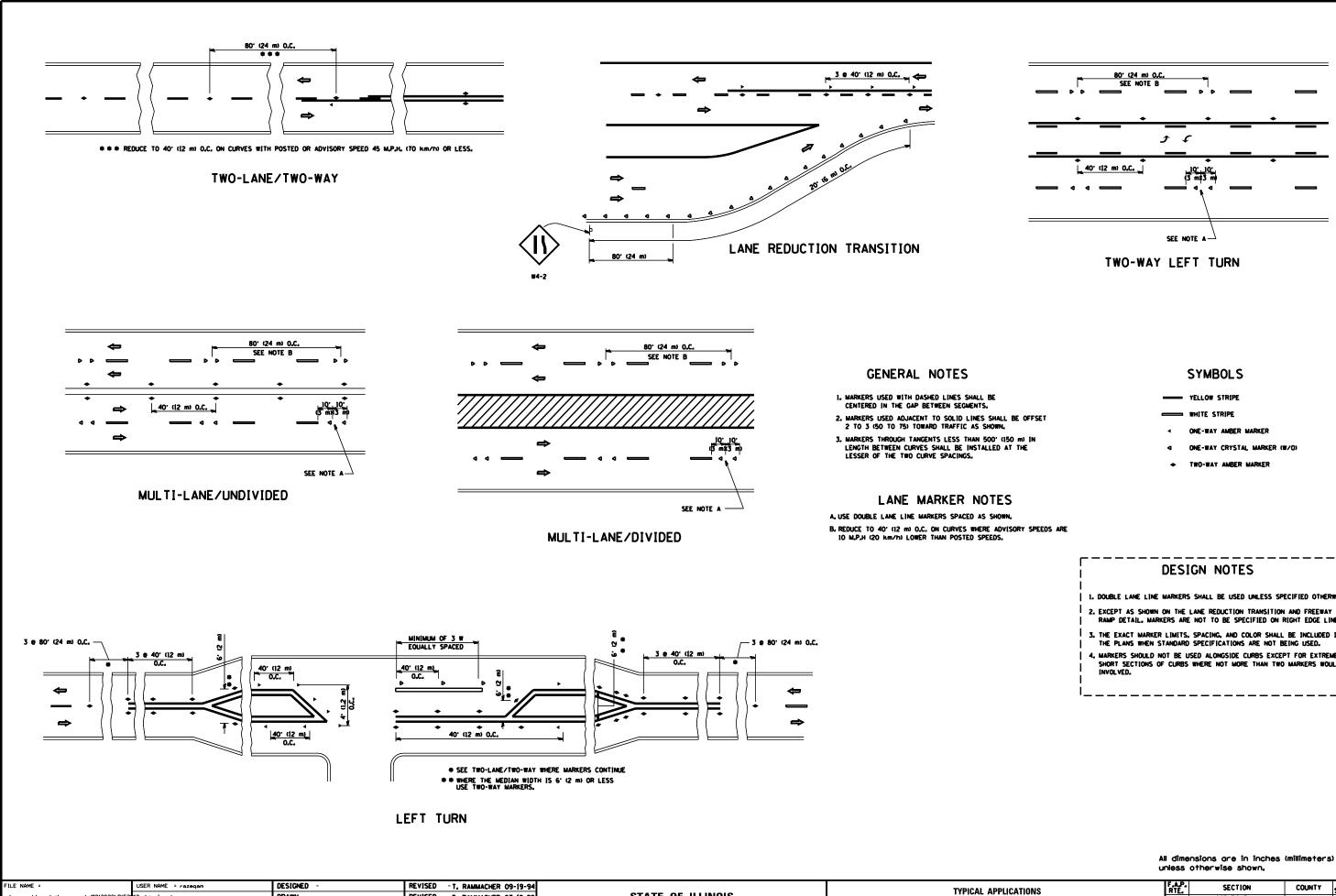
FILE NAME =	USER NAME = razeqam	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95		TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
cs/pw_work/pwidot/razeqam/d0312623/D152	112-sht-plan.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			324 29R-RS-3	MCHENRY 25 19
	PLOT SCALE = 100.2155 ' / in.	CHECKED -	REVISED - A, HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION			TC-10	CONTRACT NO. 60V13
	PLOT DATE = 4/17/2014	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FE	



# SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

- 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	dime	ensions	ore	în	millimeters	(inches)
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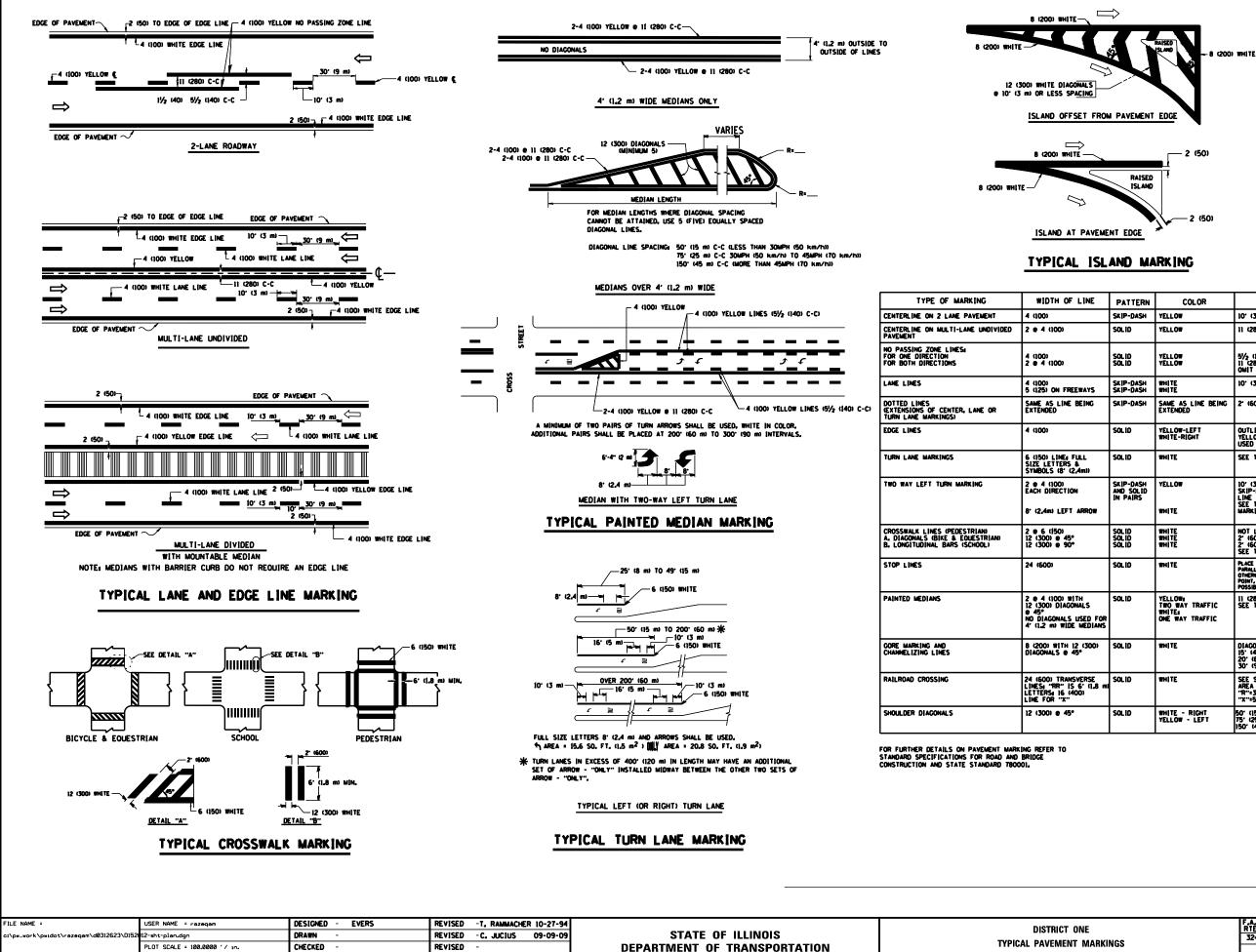
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	PLOT DATE = 4/17/2014	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	Ľ

		YELLOW STRIPE
BE OFFSET	_	WHITE STRIPE
iom) IN	•	ONE-WAY AMBER MARKER
T THE	٩	ONE-WAY CRYSTAL MARKER (W/O)
	•	TWO-WAY AMBER MARKER

I. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE. 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL. MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES. 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED. 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	dîme	ensions	are	în	inches	(millimeters)
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CATIONS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ERS (SNOW-PLOW RESISTANT)	324	29R-RS-3	MCHENRY	25	20
		TC-11	CONTRACT	NO. 60	V13
STA. TO STA.	FED. RC	AD DIST. NO. 1 ILLINDIS FED. A	D PROJECT		



PLOT DATE = 4/17/2014

DATE

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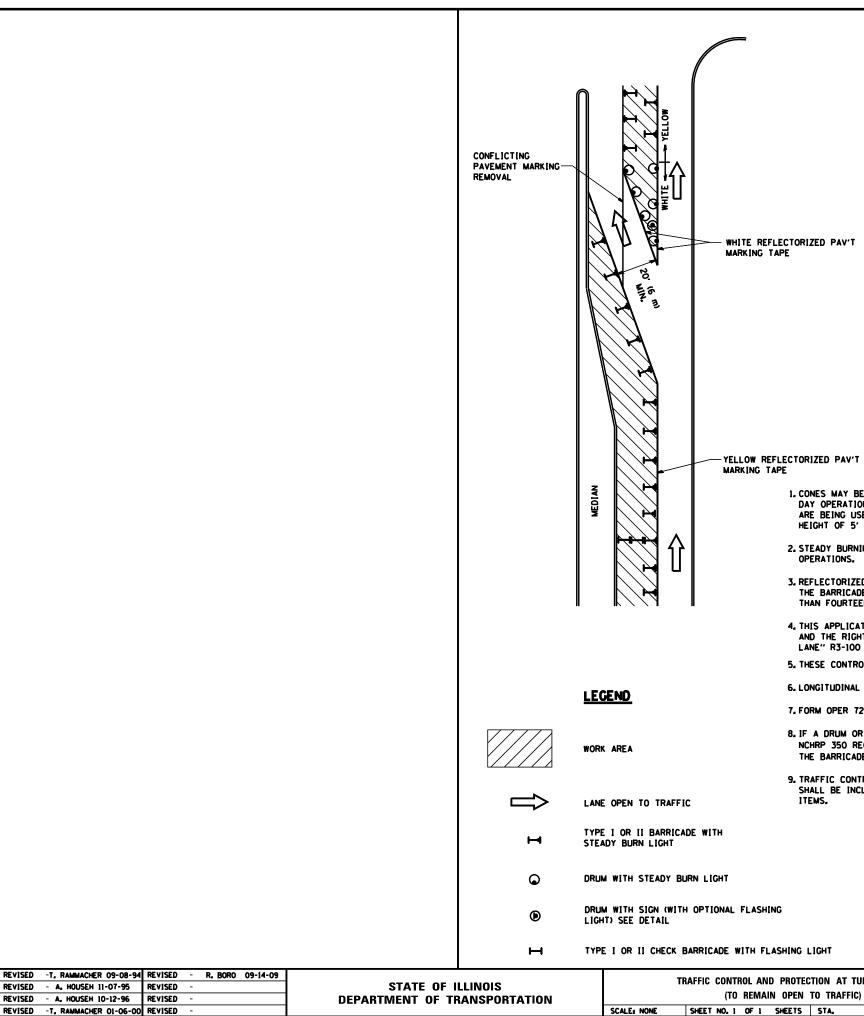
REVISED

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	10" (3 m) LINE WITH 30" (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C Omit Skip-Dash Centerline Between
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10" (3 m) LINE WITH 30" (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING Extended	2" (600) LINE WITH 6" (1,8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW, EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
ULL & "Ami)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' 13 m) LINE WITH 30' 19 m) SPACE FOR SKIP-DASH 375 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1,8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOL ID	WHITE	PLACE 4 (1.2 m) IN ADVANCE OF AND PARALLEL TO CHOSSMALL, IF PRESENT, OTHERWISE, PLACE AT DESIDES STOPPING POINT, PARALLEL TO CHOSSMOAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOWS TWO WAY TRAFFIC WHITES ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	SOL ID	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 (DVER 45MPH (70 km/h))
VERSE 6' (1,8 m) 00)	SOL ID	WHITE	SEE STATE STANDARD 780001 AREA OF; "R"=3.6 50, FT, 10,33 m <sup>2</sup> ) EACH "X"=54.0 50, FT, 15.0 m <sup>2</sup> )
	SOLID	WHITE - RIGHT Yellow - Left	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

ONE		F.A.F RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.			
т	T MARKINGS		324	324 29R-RS-3 MCHENRY				21		
I WARKINGS			TC-13	;	CONTRACT	NO. 60	V13			
	STA.	TO STA.	FED.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



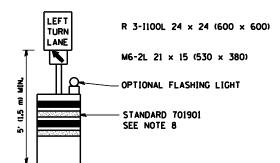
FILE NAME =

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USER NAME = razegam

PLOT DATE = 4/17/2014

PLOT SCALE = 99.9998 '/ in.



### GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

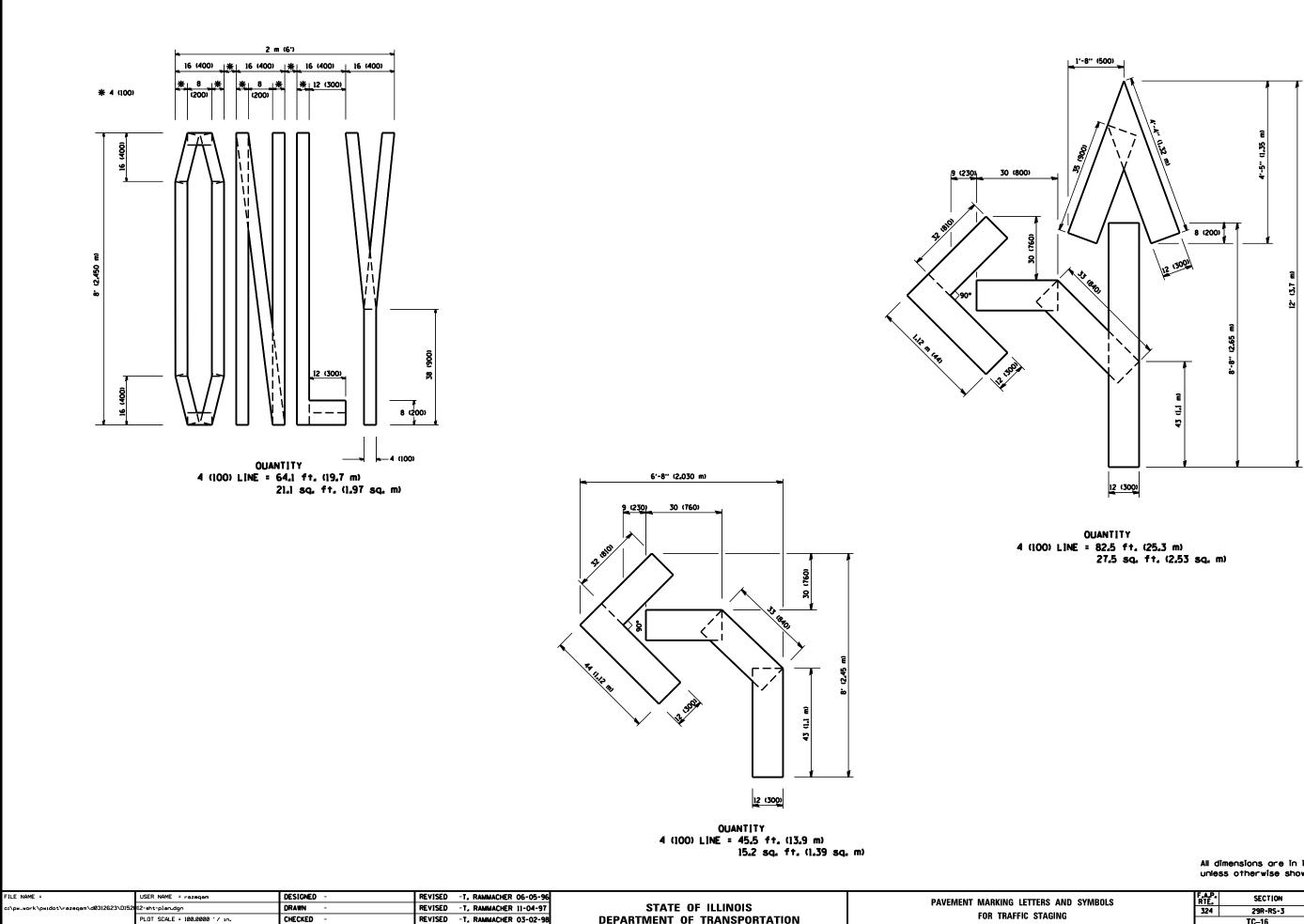
7. FORM OPER 725 IS REQUIRED.

8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.

9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR

> All dimensions are in inches (millimeters) unless otherwise shown,

ECTION AT TURN BAYS To Traffic)		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		29R-RS-3	MCHENRY	25	22
		TC-14	CONTRACT	NO. 60	IV13
STAL TO STAL	FED, R	OAD DIST. NO. 1 ILLINDIS FED. AI	D PROJECT		

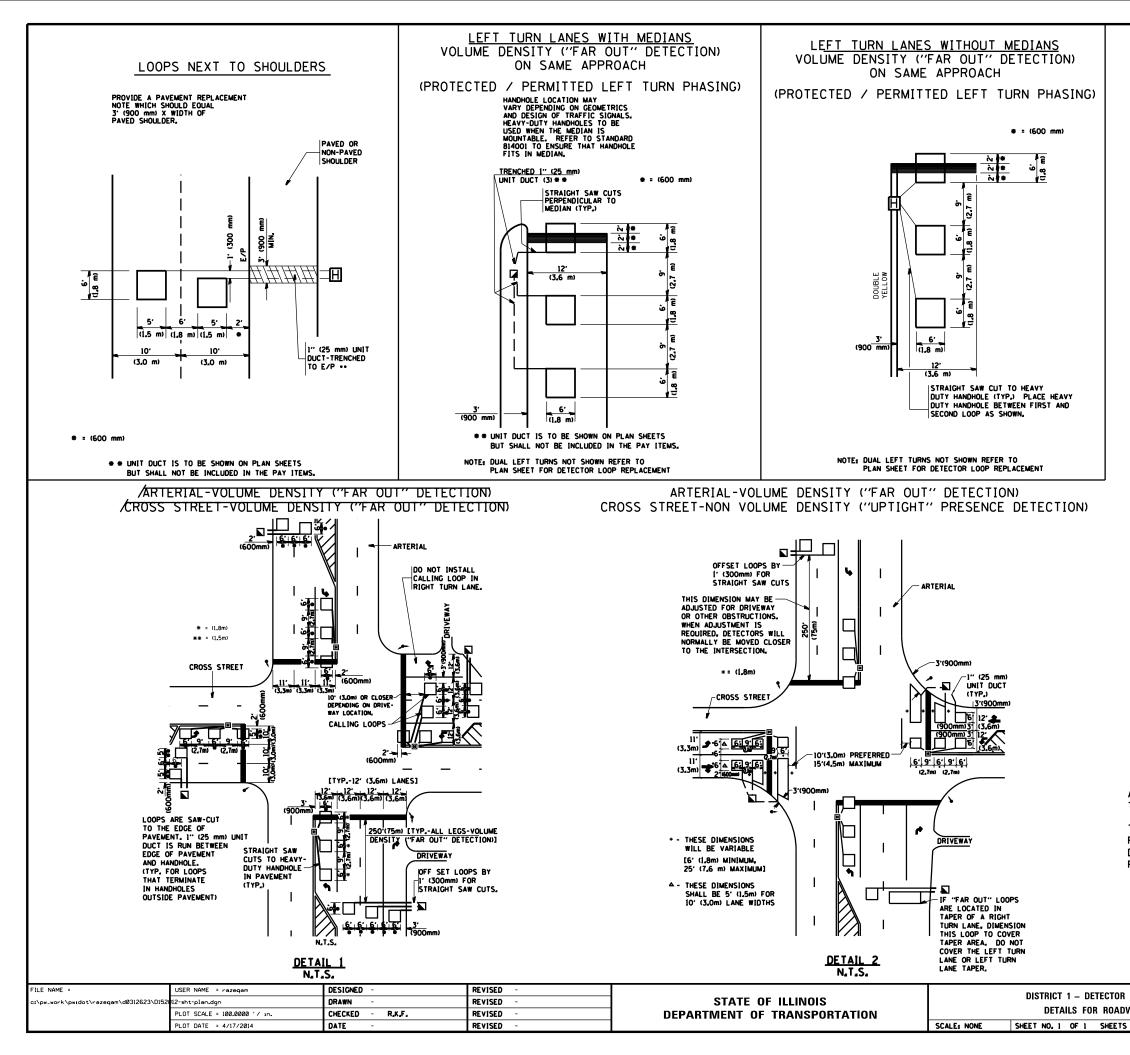


FOR TRAFFIC ST **DEPARTMENT OF TRANSPORTATION** REVISED -T, RAMMACHER 03-02-98 DATE - 09-18-94 REVISED - E. GOMEZ 08-28-00 SCALE: NONE SHEET NO. 1 OF 1 SHEETS

PLOT DATE = 4/17/2014

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

FERS AND SYMBOLS Staging			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			324	29R-RS-3	MCHENRY	25	23
				TC-16	CONTRACT NO. 60V13		
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT				



### 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 REOUIRES 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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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  $\underline{ALL}$  SIGNAL LAYOUT PLAN SHEETS.

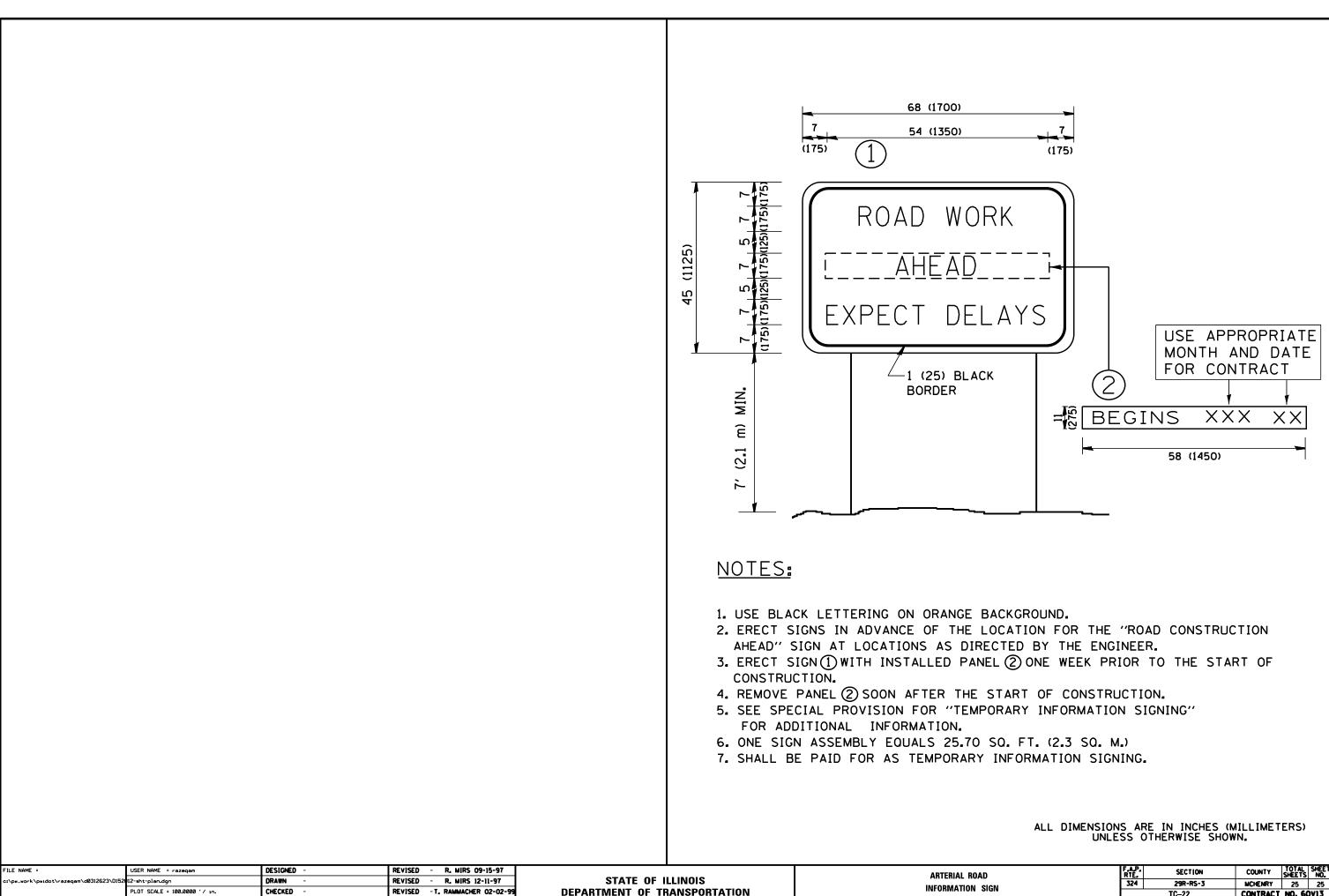
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

LOOP INSTALLATION Way resurfacing			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			324	29R-RS-3	MCHENRY	25	24	
~~	NAT RESURFACING			TS-07	CONTRACT	NO, E	50V13	
5	STA,	TO STA.	FED. R	FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT				



SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

PLOT DATE = 4/17/2014

DATE

REVISED - C. JUCIUS 01-31-07

ROAD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
N SIGN			29R-RS-3	MCHENRY	25	25	
			TC-22	CONTRACT NO. 60V13			
STA.	TO STA.	FED. ROA	FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT				