08-01-14 LETTING ITEM 030

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF CHANNAHON AND CITY OF JOLIET.

# **STATE OF ILLINOIS**

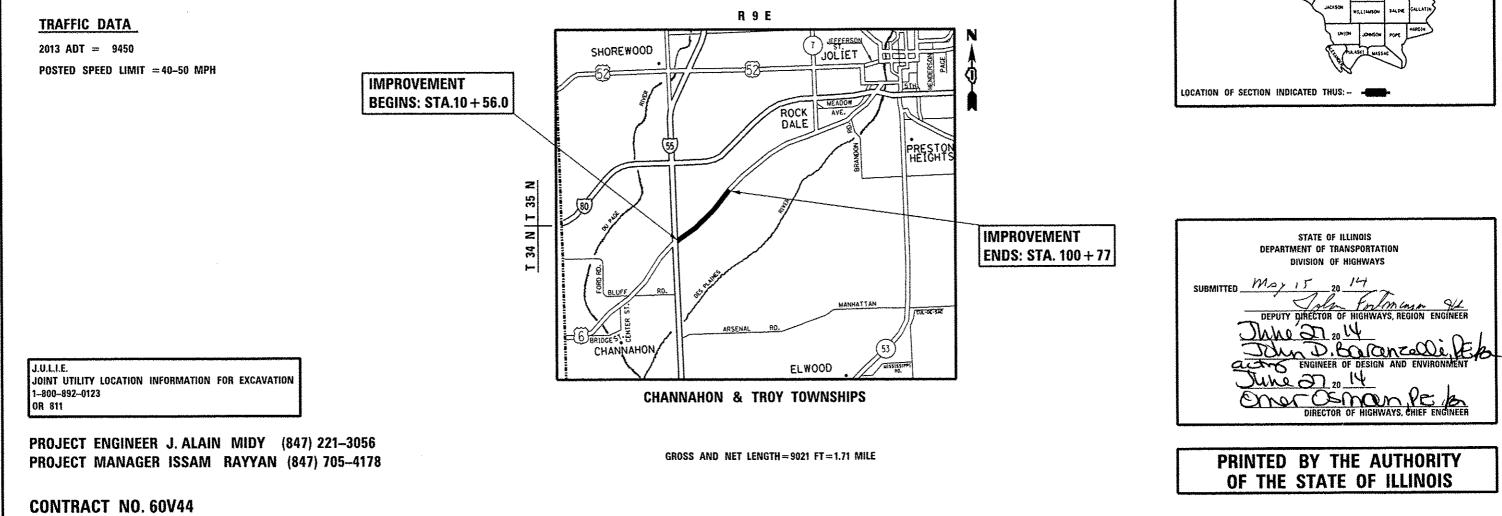
**DEPARTMENT OF TRANSPORTATION** 

**DIVISION OF HIGHWAYS** 

# PROPOSED **HIGHWAY PLANS**

F.A.P. ROUTE 856: US 6 (EAMES ST.) 0.2 MI. S. OF McCLINTOCK RD. TO I-55 SECTION: (EX&JX)RS-4 RESURFACING WILL COUNTY

C-91-568-12

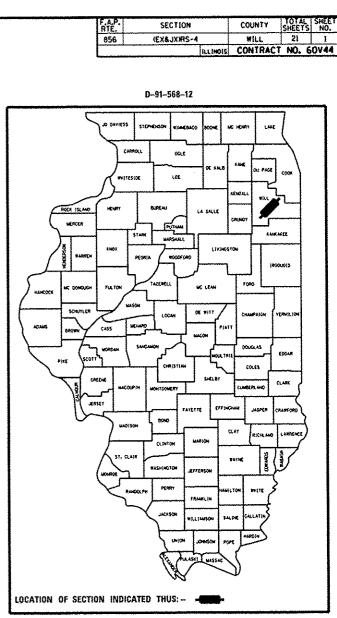


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# **INDEX OF SHEETS**

SHEET <u>NO.</u>	DESCRIPTION
ı	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-6	TYPICAL SECTIONS
7-10	ROADWAY & PAVEMENT MARKING PLANS
11	DETECTOR LOOP REPLACEMENT PLANS
12	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
13	PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)
14	DETAILS FOR DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (BD-34)
15	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
16	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
17	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
18	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC-14)
19	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
20	ARTERIAL ROAD INFORMATION SIGNING (TC-22)
21	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

# **STATE STANDARDS**

<u>Standard N</u> o	DESCRIPTION
442201-03	CLASS C AND D PATCHES
630301-06	SHOULDER WIDENING FOR TYPE I ISPECIALI GUARDRAIL TERMINAL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701301-04	LANE CLOSURE, 2L. 2W. SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L. 2W. SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >45 MPH
701311-03	LANE CLOSURE 21. 2W MOVING OPERATIONS-DAY ONLY
701400-07	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY / EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06	URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKING

FILE NAME : USER NAME : Corangautob DESIGNED -REVISED -INDEX OF SHEETS, STATE S 56812-sht-plan.don DRAWN REVISED STATE OF ILLINOIS AND GENERAL NO PLOT SCALE + 100.0000 / 10. CHECKED REVISED DEPARTMENT OF TRANSPORTATION er aus PLOT DATE + 5/15/2014 DATE REVISED SCALE SHEET OF SHEETS ST

DEPARTMENT.

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.

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 ACCORDING TO ARTICLE 109,04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

ENGINEER.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.

# **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 CHANNAHON.

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

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 40 MPH (BOXM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 40 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 (VIH) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND REVISED 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.

THE ENGINEER SHALL CONTACT CORY JUCIUS, TRAFFIC ARTERIAL OPERATIONS UNIT CHIEF AT 847-705-4411 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 (FOR ARTERIALS) AND (847) 705-4151 (FOR EXPRESSWAYS) A MINIMUM OF T2 HOURS IN ADVANCE OF BEGINNING WORK.

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

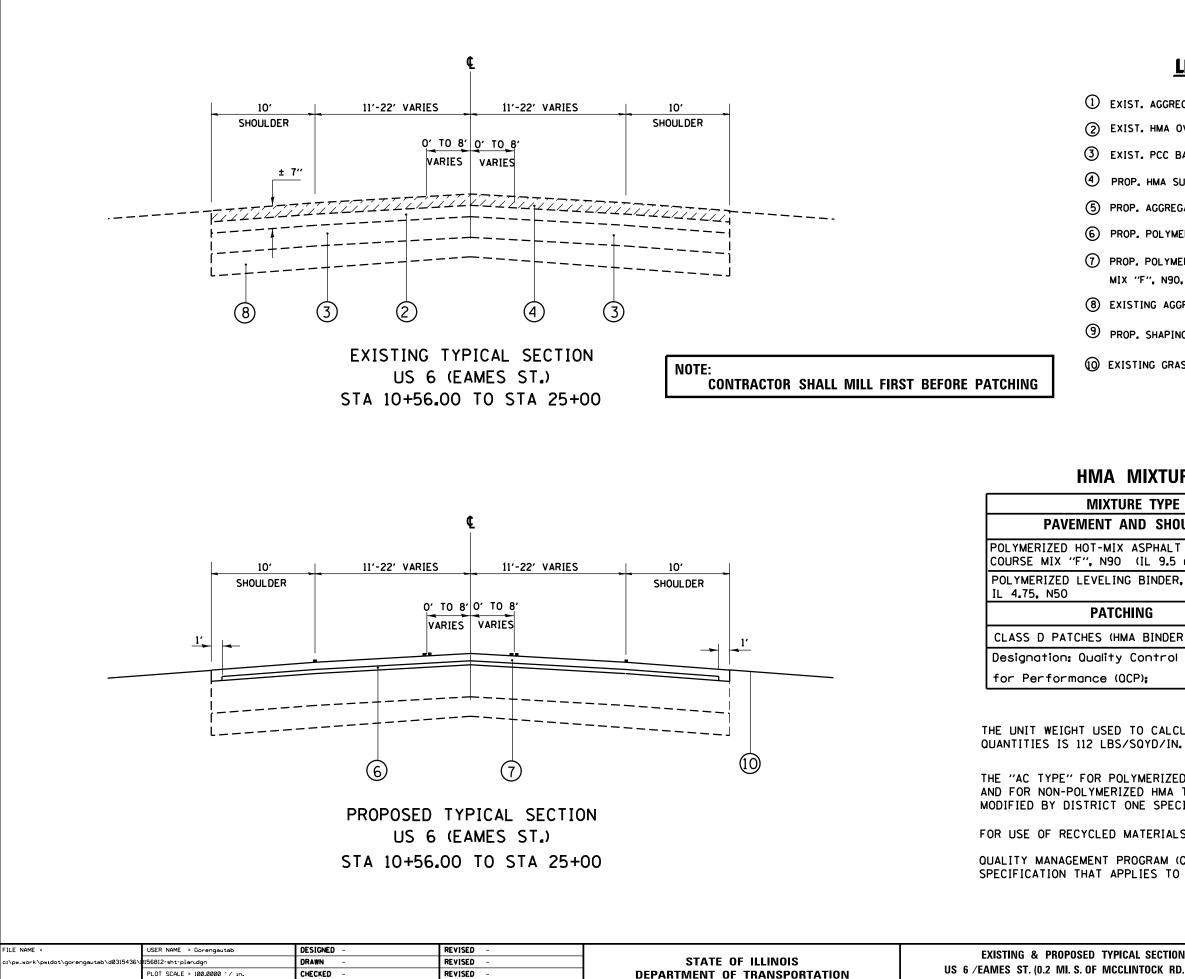
THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL"

TANDA	RDS,	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TES		856	EX&JXXRS-4	#ILL	21	2
				CONTRACT	NO. 6	OV44
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	SUMMARY OF QUANTITIES		100%. STATE		C	UNSTRUCT	ION TYPE (	JUDE 000	2		SUMMAR	Y OF QUANTITIES		STATE						ŕ
CODE NO	ITEM	UNIT	TOTAL	0005						CODE NO		ITEM	UNIT	TOTAL QUANTITIES	0005					
0400800	FURNISHED EXCAVATION	CU YD	13	13						48101620	ACCRECATE SHO	ULDERS, TYPE B 10"	SO YD	25	25					
												·								<b>_</b>
1101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	6	6						48102100	AGGREGATE WED	GE SHOULDER, TYPE B	TON	476	476					
25000210	SEEDING. CLASS 2A	ACRE	0,01	0, 01						¥ 63100169	TRAFFIC BARRI (SPECIAL) FLA	ER TERWINAL, TYPE ] RED	EACH	1	1					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1	1						63200310	GUARDRAIL REN	ADVAL	F00T	50	50					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1	1						67000400	ENGINEER S F	IELD OFFICE, TYPE A	CAL MO	3	3					<b> </b>
25000600	POTASSIUM FERTILIZER NUTRIENT	POUNÓ	1	1						67100100	MOBILIZATION		L SUM	1	1					_
25100630	EROSION CONTROL BLANKET	SO YD	40	40						70100460		ROL AND PROTECTION.	i. Sum	1	1					
											STANDARD 701	306					-			
10600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	49	49						70102620	TRAFF (C CONTI STANDARD 701	ROL AND PROTECTION, 501	LSUM	1	-1					<u> </u>
	POLYMERIZED LEVELING BINDER (MACHINE									70102622		OL AND PROTECTION,	L SUM		. 1					
40600827	NETHOD), IL-4, 75, N50	TON	1296	1296							STANDARD 7015	02								+
40600895	CONSTRUCTING TEST STRIP	EACH	1	1						70102635	TRAFFIC CONTR STANDARD 7011	OL AND PROTECTION, TO 1	L SUM	1	1					1
																				<u> </u>
40600982	HOT-MEX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	460	460						70300100	SHORT TERM P	AVEMENT MARKING	FOOT	9630	9630					
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", NGO	TON	3185	3185						70300210	TEMPORARY PAVE SYMBOLS	MENT MARKING LETTERS AND	SO FT	233	522					
															ļ					<u> </u>
44000159	HOT-WIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	32175	32175		<b></b>	<u> </u>			70300220	TEMPORARY PAY	VENENT WARKING - LINE 4"	FOOT	29600	29600			<u>.</u>	<b>_</b>	<b> </b>
	MEDIAN REMOVAL , PARTIAL DEPTH	5Q FT	920	920		<b> </b>						Phartest Landon tele		245	245		·····		<u> </u>	+
4201803	CLASS D PATCHES, TYPE II, 13 INCH	50 YD	500	500		<u> </u>				70300240	ILMPUHANT PAT	/EMENT MARKING - LINE 6"	FOOT	245	245					┢
44201807	CLASS D PATCHES, TYPE 111, 13 INCH	S0 YD	500	500						70300250	TENPORARY PAT	VEMENT MARKING - LINE 8"	FOOT	120	120					Ļ
44201809	CLASS D PATCHES. TYPE IV. 13 INCH	SO YD	600	600																+
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a E mine :		IGNED -		REVISED			1	s	TATE OF	ILLINOIS		US 6 /EAMES ST. (0.2 MI.			)  -55)	RTE. 855		Tion Jaars-4	COUNTY	21
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CODE NO	ITEM	UNIT	STATE TOTAL QUANTITIES	0005						CODE NO	ITEM	UNIT	STATE TOTAL QUANTITIES	0005					
										X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	28956	28956	·				<u> </u>
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	625	625	<b> </b>														1
	,									x6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	3	3					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	160	160															
										×7010410	SPEED DISPLAY TRAILER	CAL NO	0. 3	0. 3					<u> </u>
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	50 F T	11247	11247	ļ														
					<b>.</b>	· · · ·				×7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	i, sum	1	1				ļ	
¥ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	233	233	<u> </u>			ļ											
					<u> </u>			 		20030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					<u> </u>
<u>⊁</u> 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	29600	29600				<u> </u>											
¥- 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	245	245						Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1					+
<i>π</i>					<u> </u>						· · · · · · · · · · · · · · · · · · ·								
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	120	120	<u> </u>														+
						1		ļ											ł
¥ 78000600	THERWOPLASTIC PAVEMENT WARKING - LINE 12"	FOOT	625	625	<u> </u>														1
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	160	160			1												<u> </u>
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	230	230		1									· · · · · ·				
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× 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1															
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78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	100	100							· · · · · · · · · · · · · · · · · · ·								
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	404	404				ļ						I					+
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×2020110	GRADING AND SHAPING SHOULDERS	UNIT	1 32	1 32			· · · · · · · · · · · · · · · · · · ·				······································								1
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PLOT DATE = 5/16/2014

DATE

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SCALE:

# LEGEND

① EXIST. AGGREGATE SHOULDER (2) EXIST. HMA OVERLAY AFTER MILLING± 4 1/2" 3 EXIST. PCC BASE COURSE ± 81/2" ( PROP. HMA SURFACE REMOVAL, 2 1/2 " (5) PROP. AGGREGATE WEDGE SHOULDER, TYPE B (6) PROP. POLYMERIZED LEVELING BINDER (MM), IL -4.75, N50, 3/4 " () PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE. MIX "F", N90, 1 3/4 " (8) EXISTING AGGREGATE SUBGRADE 9 PROP. SHAPING AND GRADING SHOULDERS ( EXISTING GRASS PKWY

# HMA MIXTURE REQUIREMENTS

IXTURE TYPE		OUALITY
NT AND SHOULDERS	AIR VOIDS @ NDES	MANAGEMENT PROGRAM (QMP)
-MIX ASPHALT SURFACE N90 (IL 9.5 mm)	4% og 90 GYR	QCP
ELING BINDER, (MM),	3.5% @ 50 GYR	QCP
ATCHING		
G (HMA BINDER IL-19 mm)	4% <b>e</b> 70 GYR	Qc⁄Qa
ility Control / Quality A	ssurance (OC/OA); (	Juality Control
e (OCP);		

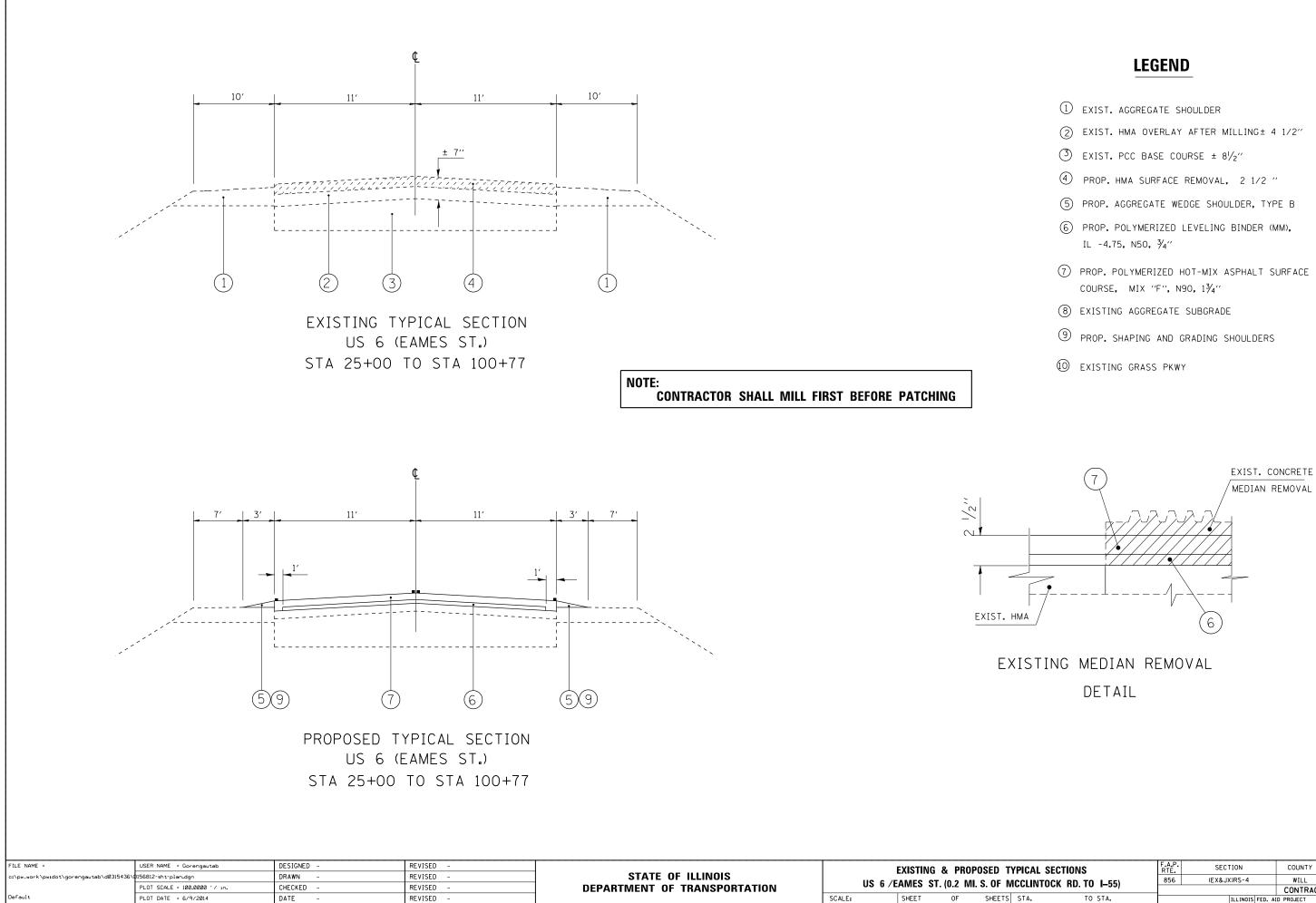
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE

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.

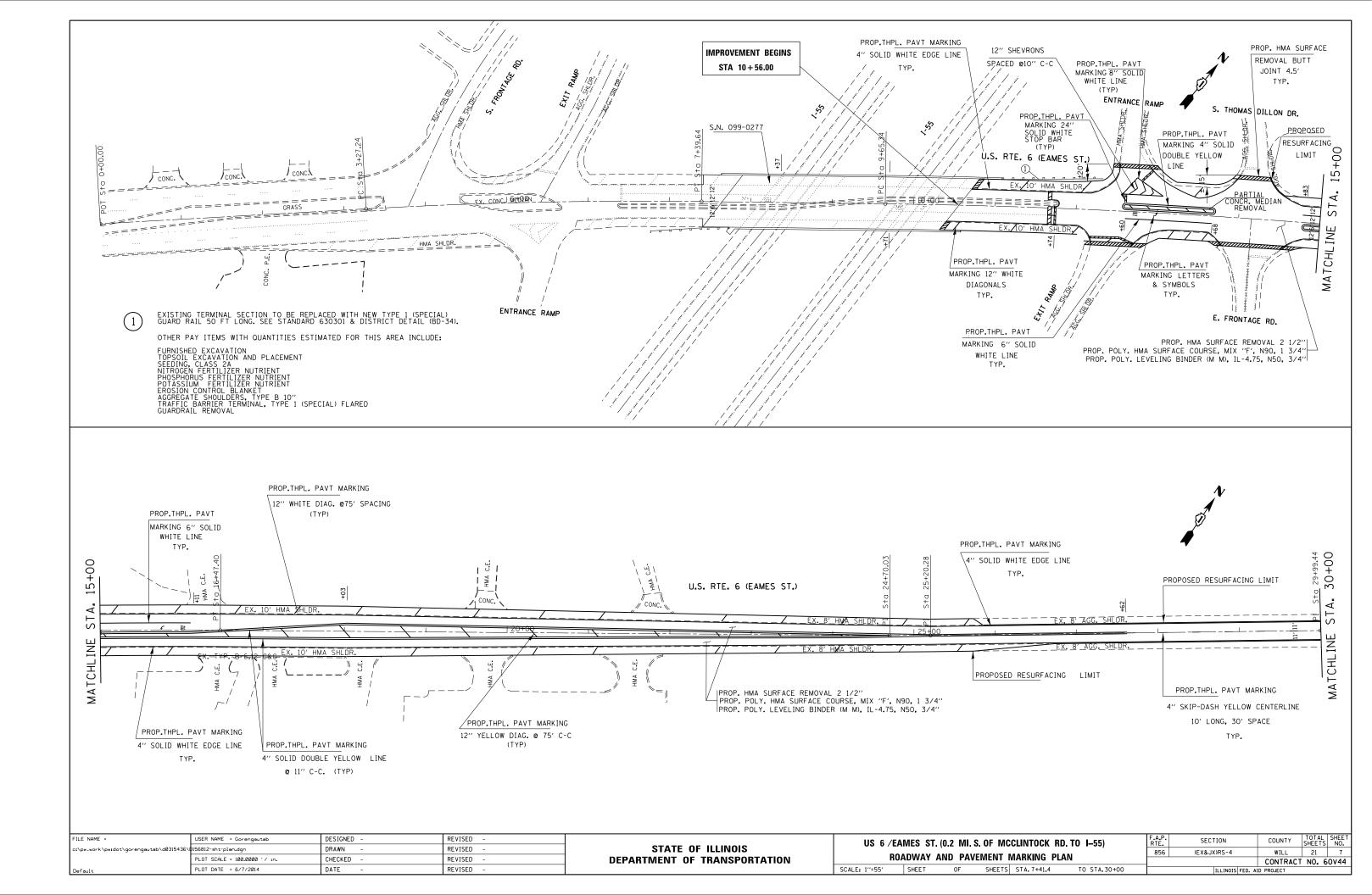
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

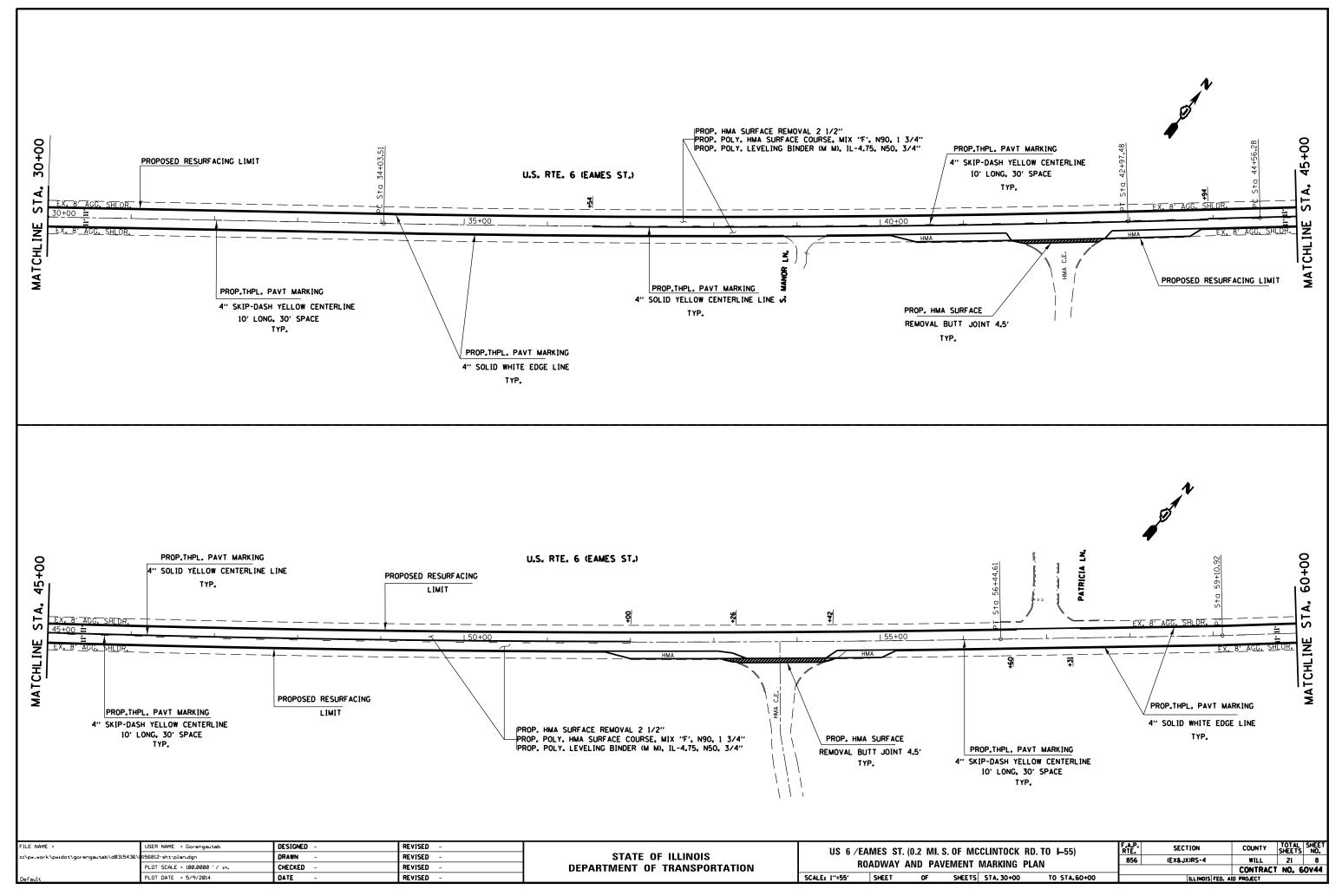
QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUANTITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

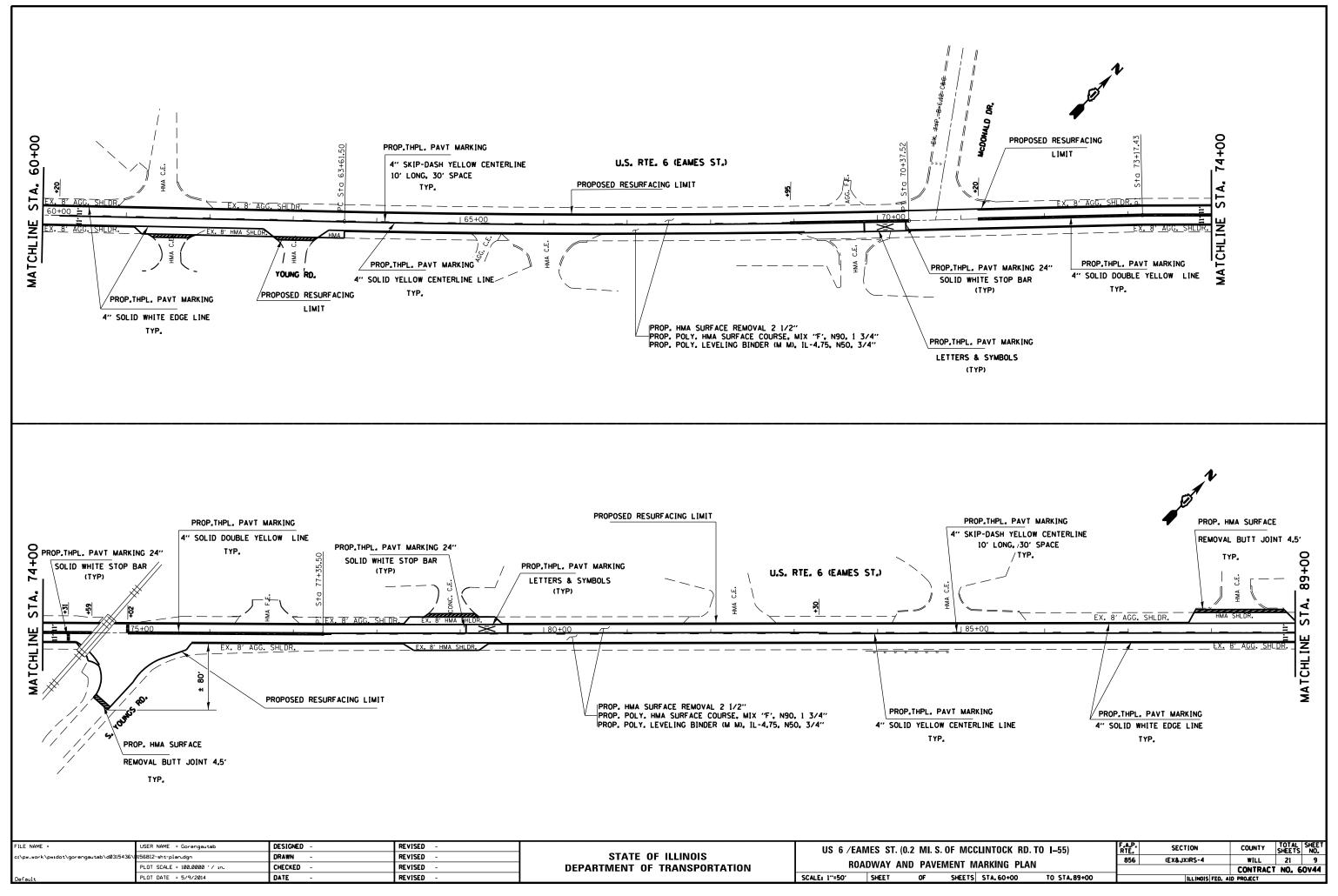
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MCCLINTOCK RD. TO I-55)		856	(EX&JX)RS-4	WILL	21	5	
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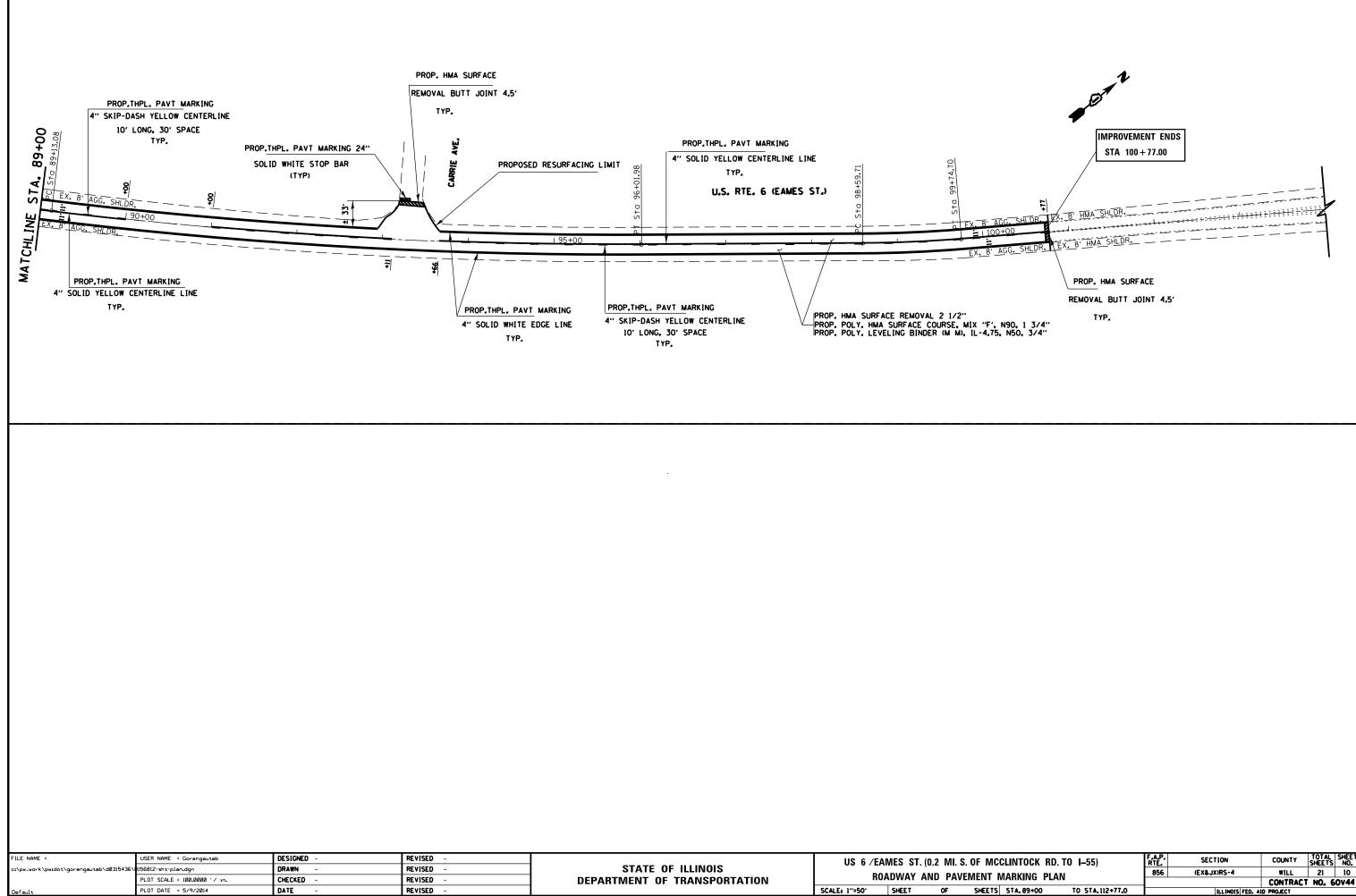


TYPICAL SE	CTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	K RD. TO I-55)	856	(EX&JX)RS-4	WILL	21	6
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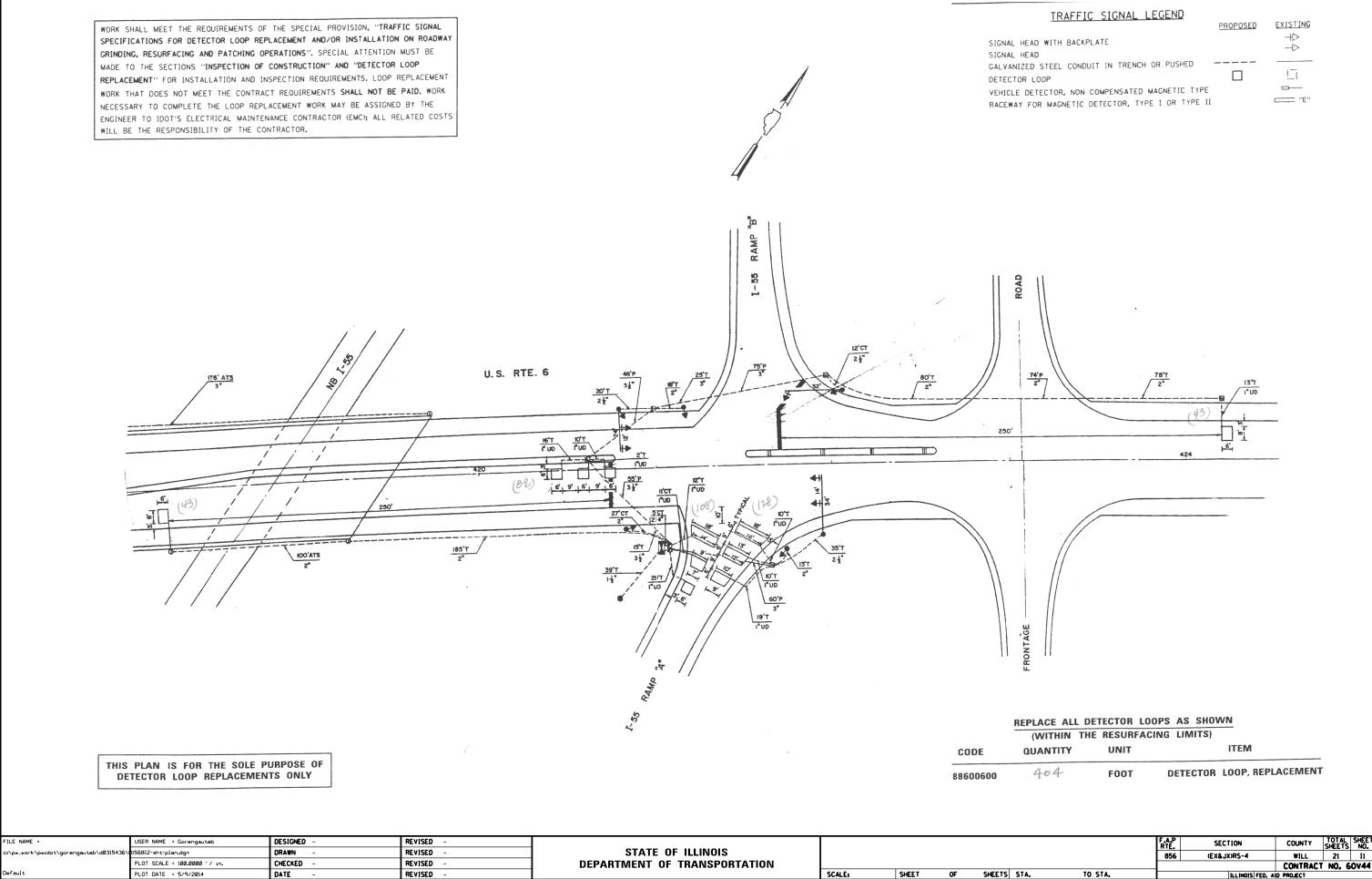








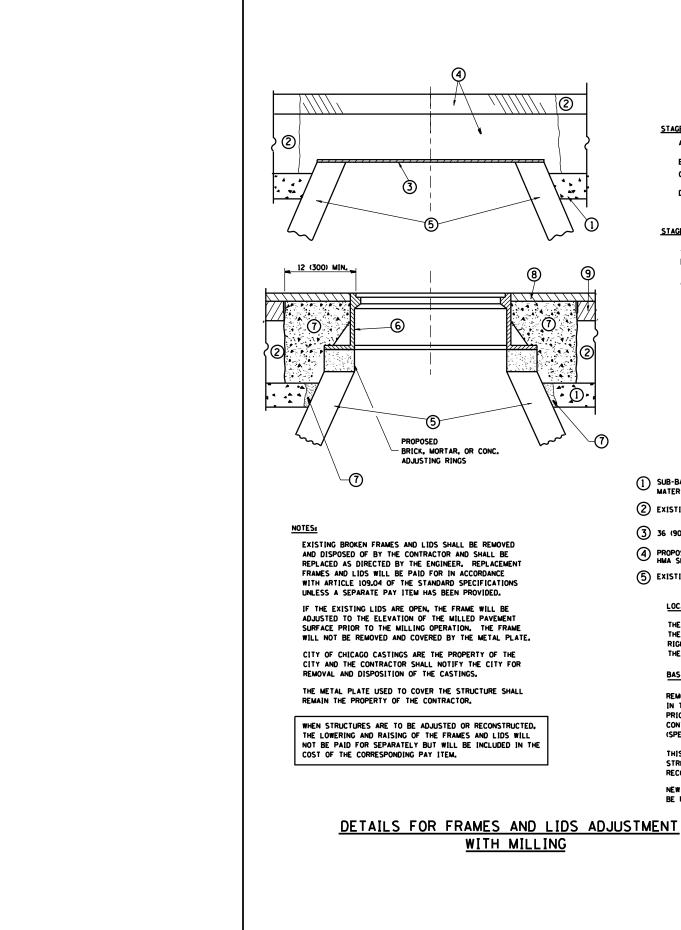
ICCLINTOCK RD. TO I-55)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MARKING PLAN	856	(EX&JX)RS-4	WILL	21	10
			CONTRACT	NO. 6	0v44
TS STA. 89+00 TO STA. 112+77.0		ILL INOIS FED. A	D PROJECT		



Default

TRAFFIC SIGNAL LEGEND NAL HEAD WITH BACKPLATE	PROPOSED	EXISTING -+D D
VANIZED STEEL CONDUIT IN TRENCH OR PUSHED ECTOR LOOP ICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE EWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		

			 Endioning 4				
					CONTRACT	NO.	60744
5	STA.	TO STA.	ILL INOIS	FED. /	ID PROJECT		



FILE NAME =	USER NAME = Gorengautab	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04		DETAILS FOR	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\gorengautab\d0315436\l	156812-sht-plan.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		856 (EX&JX)RS-4	WILL 21 12
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION	FRAMES AND LIDS ADJUSTMENT WITH MILLING	BD600-03 (BD-8)	CONTRACT NO. 60V44
	PLOT DATE = 5/9/2014	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 F	

### 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	
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.

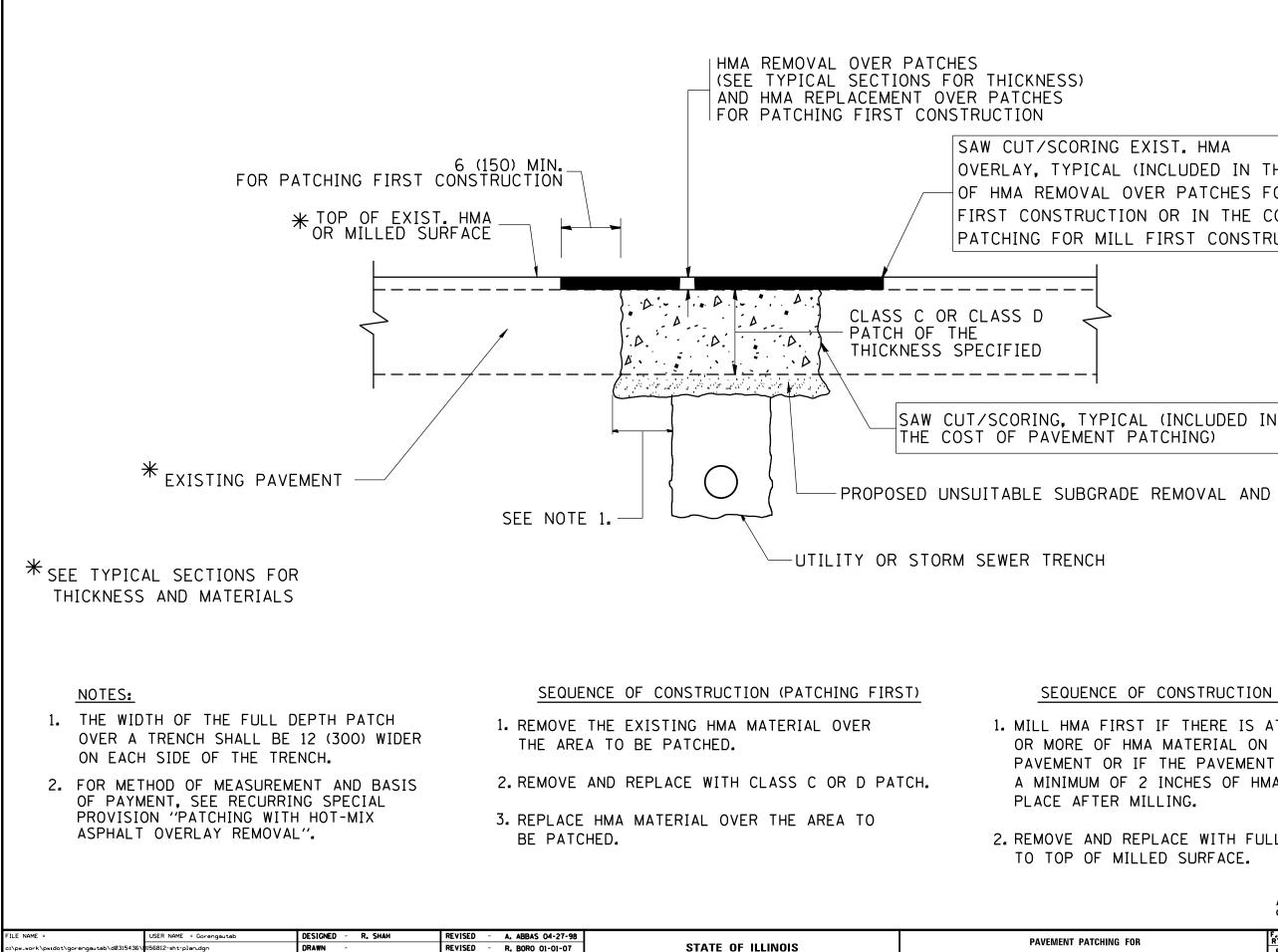
### BASIS OF PAYMENT:

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	ALL	DIMENSIONS	ARE I	N INCHES	(MILLIMETERS)	UNLESS	OTHERWISE	SHOWN
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REVISED - R. BORO 01-01-07

REVISED - K. ENG 10-27-08

- R. BORO 09-04-07

**DEPARTMENT OF TRANSPORTATION** 

REVISED

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LOT SCALE = 100.0000 '/ in.

INT DATE = 5/9/2014

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DATE

CHECKED

10-25-94

HMA SURFACED F

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

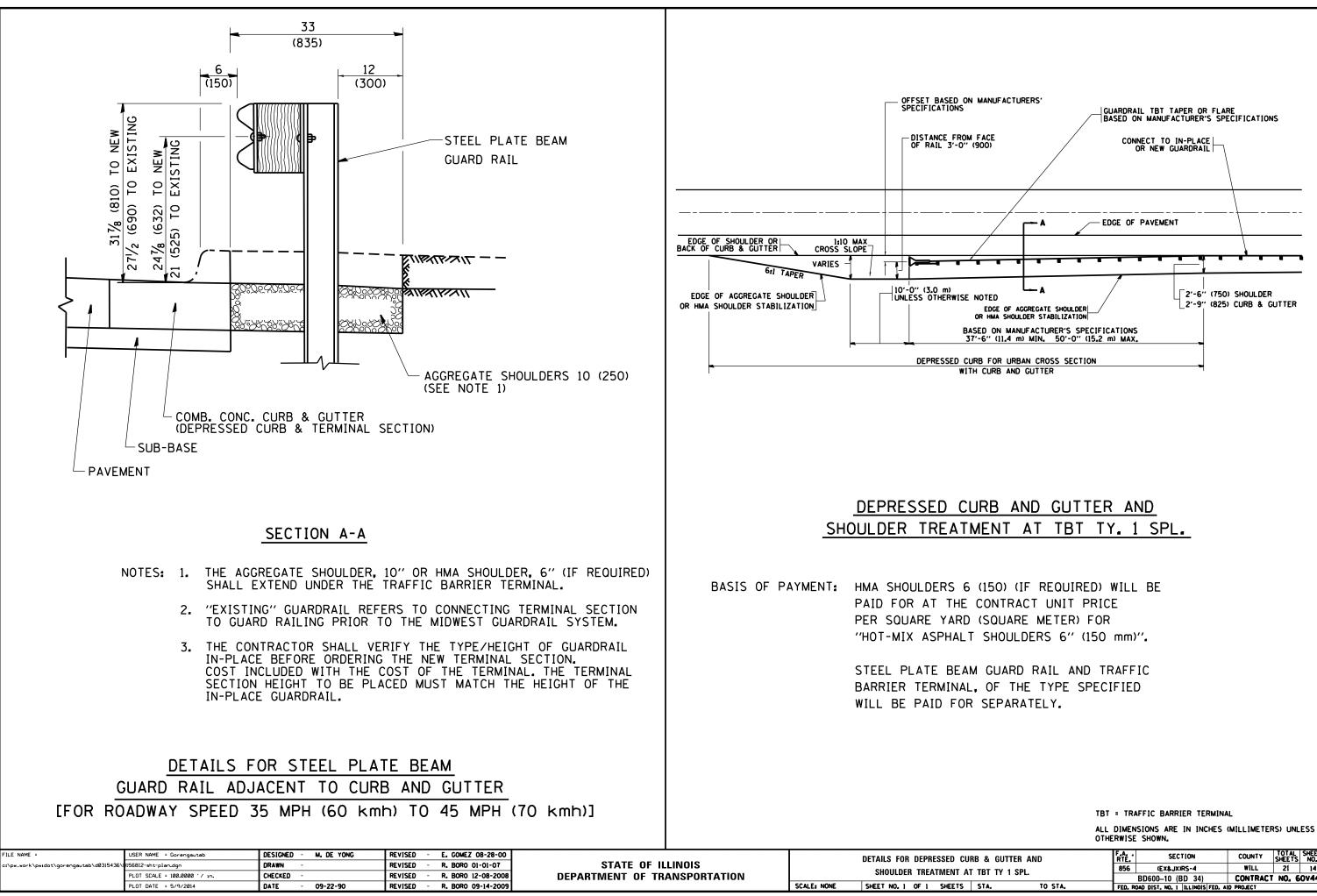
# SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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.

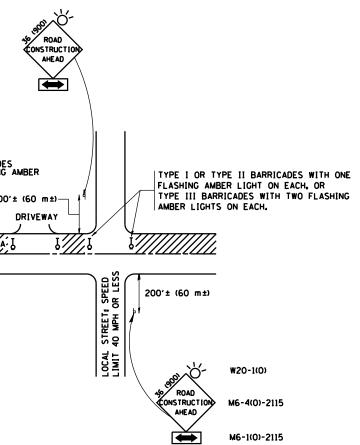
STA,	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT							
			BD400-04 (BD-22) CONTRACT NO. 60			OV44				
PAVEMENT			(EX&JX)RS-4	WILL	21	13				
HING FOR			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				



URB & GUTTER AND		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
ΛТ	AT TBT TY 1 SPL.			(EX&JX)RS-4	WILL	21	14			
				BD600-10 (BD 34)	CONTRACT	NO. 6	0v44			
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT							

15 (380) 21 (530)	TYPE III BARRICADES WITH TWO FLASHING LIGHTS ON EACH. 200
	COLLECTOR COLLECTOR IMIT> 40 MPH (60 km/n)
	DI LIMIT BERNAN SCONSTRUCTION AHEAD
TRAFFIC CONT	ROL AND PROTECTION FOR
NOTES:	
	ON THE SIDE ROAD OR DRIVEWAYS
	IMIT OF 40 MPH (60 km/h) OR LESS AS ) AS DIRECTED BY THE ENGINEER₃
	AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER APPROXIMATELY 200' (60 m) IN ADVANCE
	THE MAIN ROUTE SHALL BE PROTECTED BY YPE II OR TYPE III BARRICADES, 1/3 OF HE CLOSED PORTION.
	IMIT GREATER THAN 40 MPH (60 km/h) AND AS DIRECTED BY THE ENGINEER₂
O) ONE ROAD CONSTRUCTION	AHEAD SIGN 48 × 48 (1,2 m × 1,2 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 E, A SINGLE HEADED ARROW (MG-1) SHALL DUBLE HEADED ARROW (MG-4),
LLINOIS	TRAFFIC CONTROL AND F

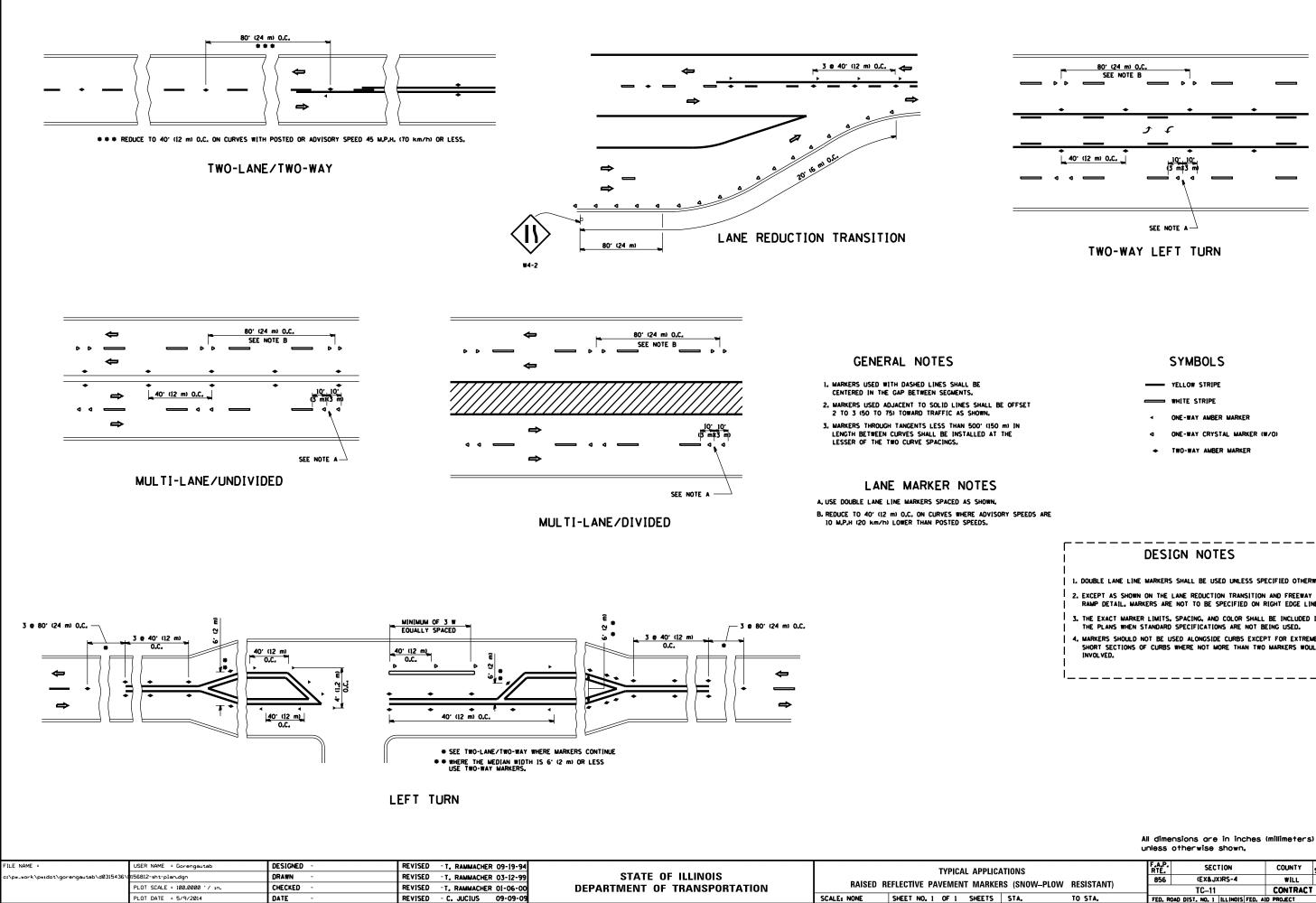
FILE NAME =	USER NAME = Gorengautab	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95		TRAFFIC CONTROL AND PROTECTION FOR		F.A.P RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\gorengautab\d03	i436\0156812-sht-plan.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			856	(EX&JX)RS-4	WILL	21 15
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			TC-10	CONTRAC	T NO. 60V44
	PLOT DATE = 5/9/2014	DATE - 06-89	REVISED -T, RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROA	D DIST. NO. 1 ILLINOIS FED. A		



# SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

- 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.

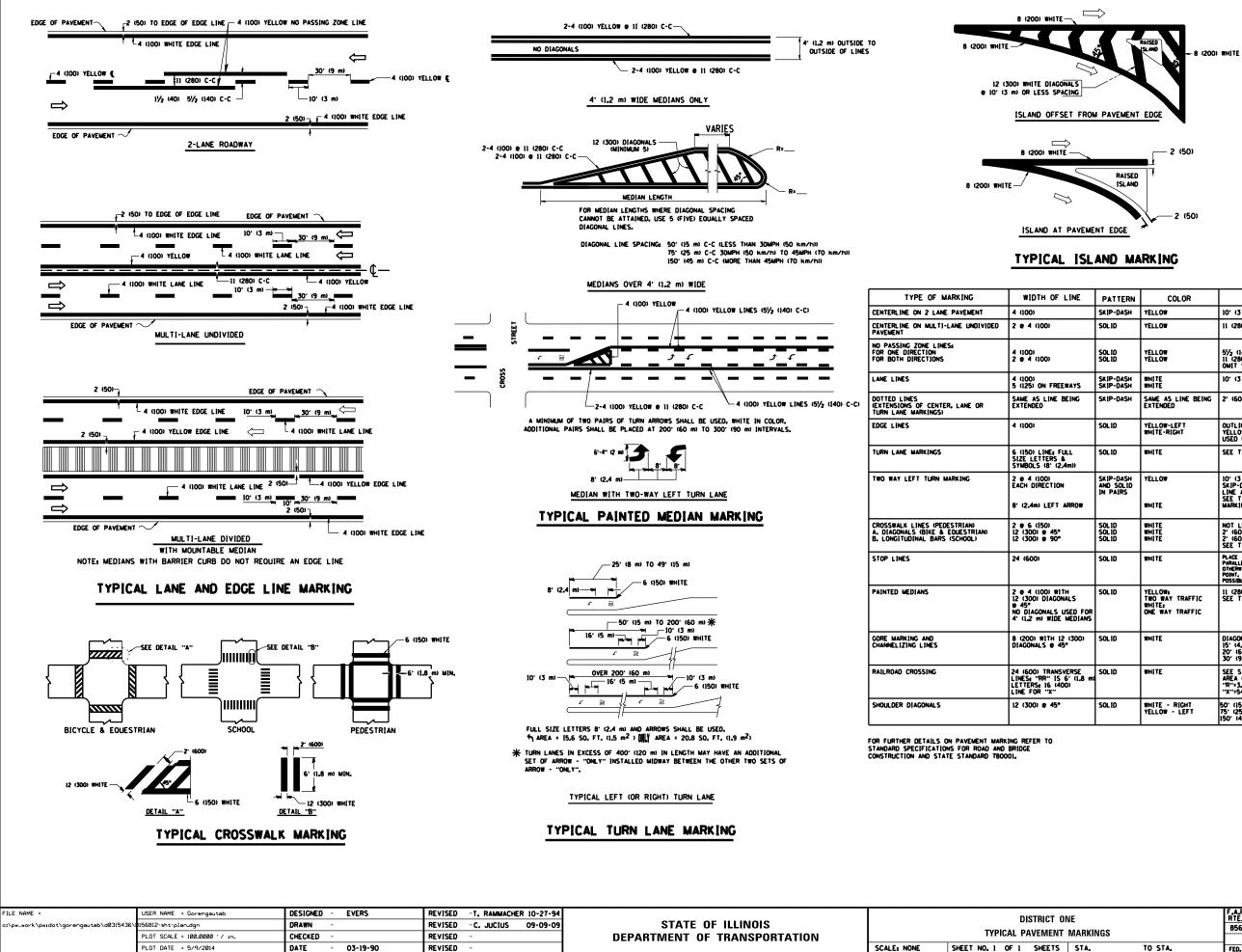


	YELLOW STRIPE
BE OFFSET	WHITE STRIPE
50 m) IN	ONE-WAY AMBER MARKER
T THE	⊲ ONE-WAY CRYSTAL MARKER (₩/O)
	TWO-WAY AMBER MARKER

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE. 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL. MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES. 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED. 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	dime	ensions	ore	in	inches	(millimeters)
uni	ess	otherw	ise	sho	wn,	

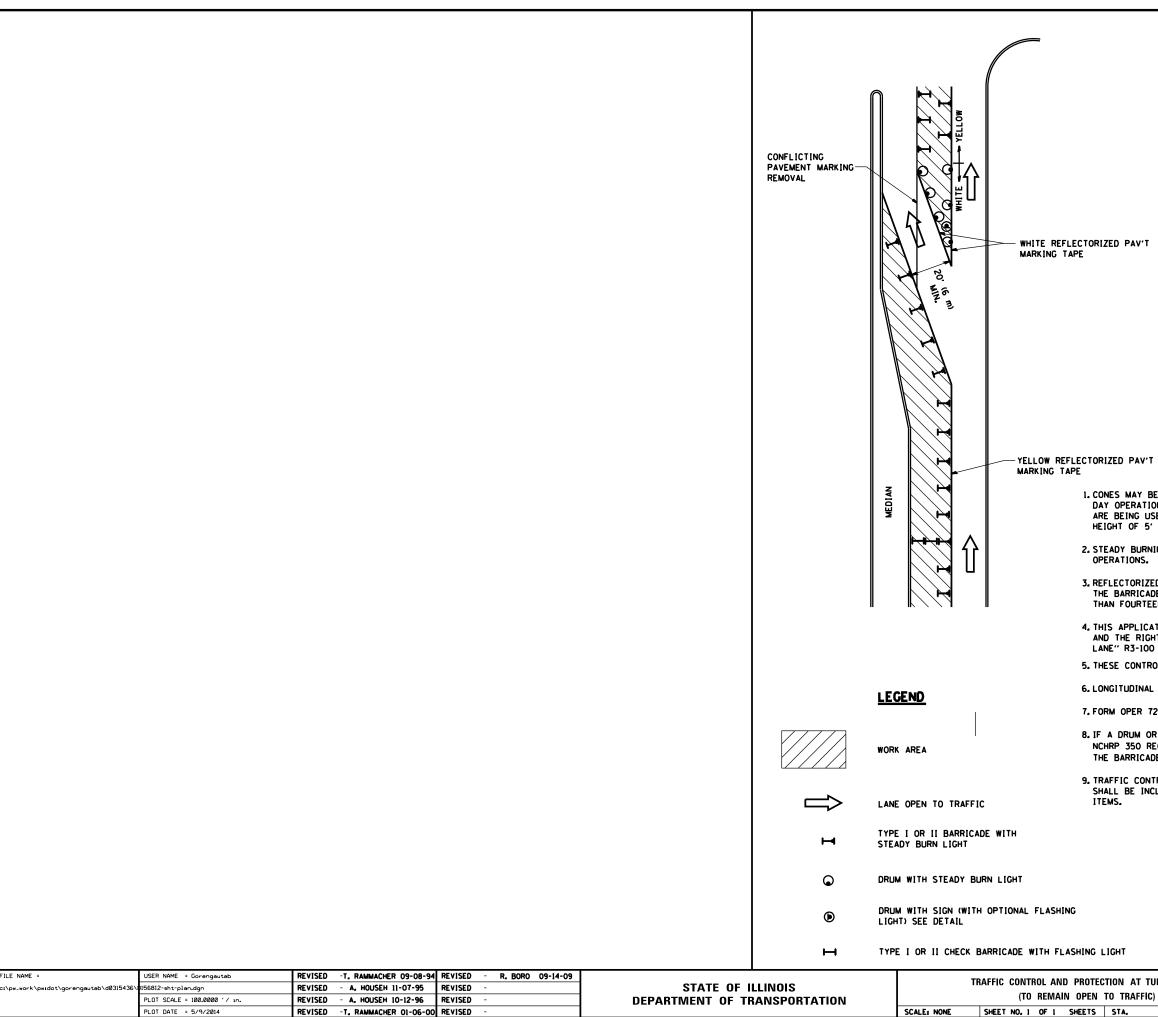
CA	CATIONS			SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
ED.	ERS (SNOW-PLOW RESISTANT)		856	(EX&JX)RS-4			WILL	21	16
				TC-11			CONTRACT	NO. 6	0v44
	STA.	TO STA.	FED. R	DAD DIST. NO. 1	ILL INOIS	FED. AI	D PROJECT		



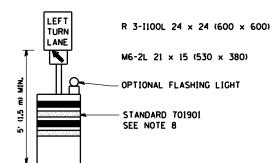
LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOL ID	YELLOW	11 (280) C-C
	SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C Omit Skip-Dash Centerline Between
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1,8 m) SPACE
	SOL ID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW, EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
'ULL & ',4m))	SOL ID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
	SOL 1D SOL 1D SOL 1D SOL 1D	WHITE WHITE WHITE	NOT LESS THAN 6' (1,8 m) APART 2' (600) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOL 1D	WHITE	PLACE 4 (1.2 m) (N ADVANCE OF AND PARALLEL TO CROSSMALE, IF PRESENT, OTHERWISE, PLACE AT DESINED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, mHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOW1 TWO WAY TRAFFIC WHITE1 ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 15°	SOL 1D	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 (0VER 45MPH (70 km/h))
VERSE 6' (1,8 m) 00)	SOL 1D	WHITE	SEE STATE STANDARD 780001 AREA 0F1 "R"=3.6 50, FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 50, FT. (5.0 m <sup>2</sup> )
	SOL ID	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,

01				SECTION	COUNTY TOTAL SHEETS		SHEET NO.			
т				(EX&JX)RS-4	WILL	21	17			
	T MARKINGS			TC-13 CONTRACT NO. 60V4						
5	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



FILE NAME =



# 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.

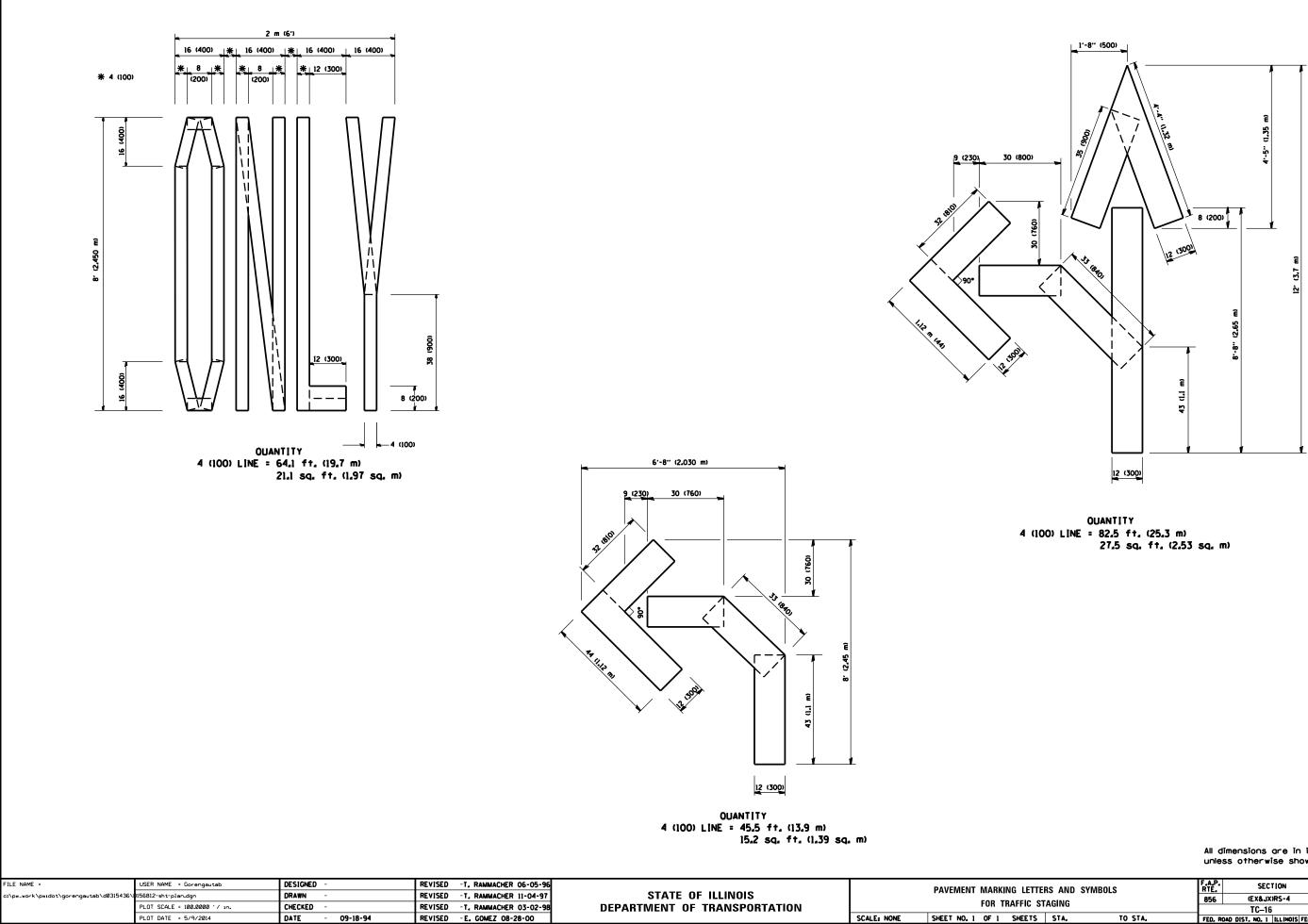
7. FORM OPER 725 IS REQUIRED.

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

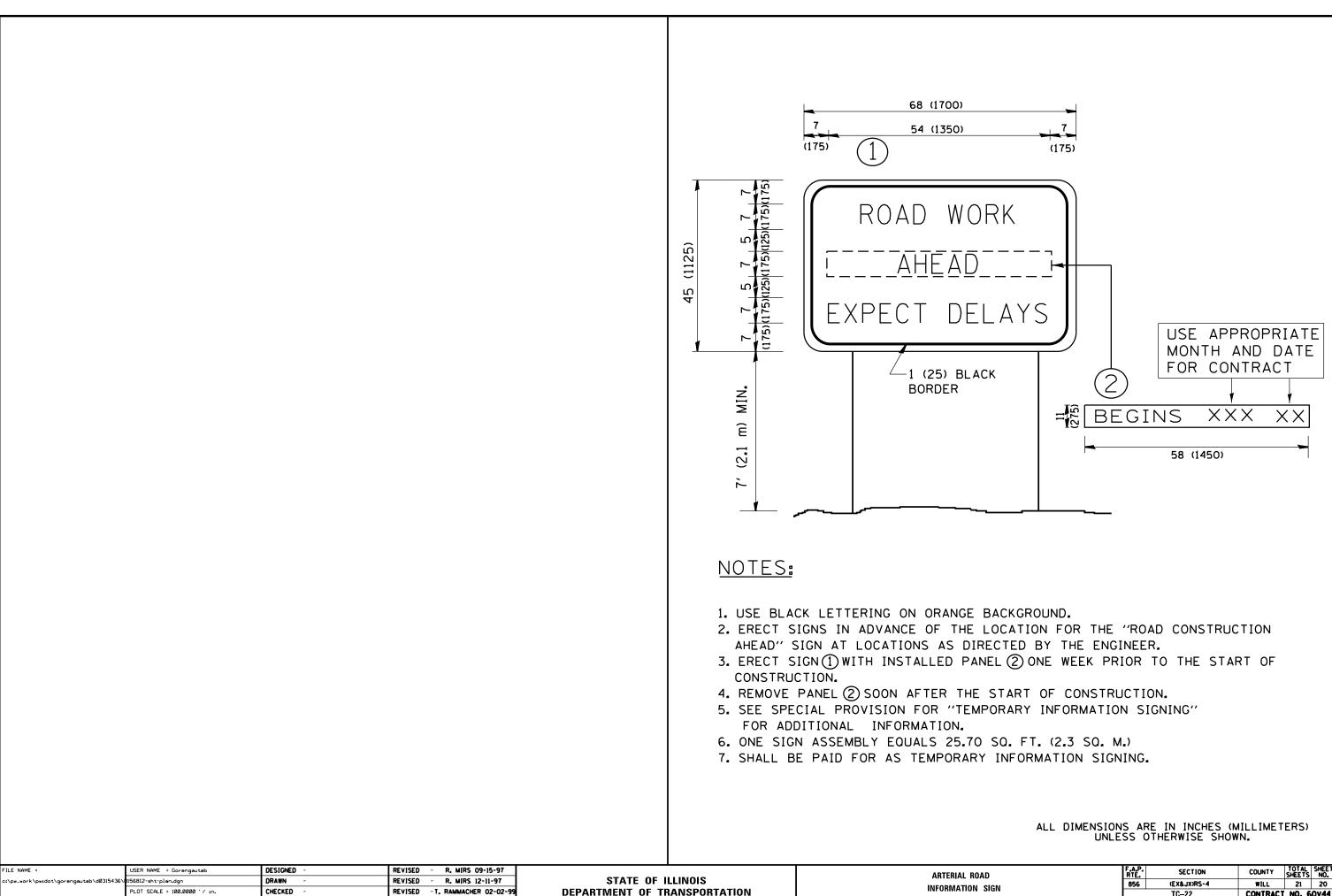
> All dimensions are in inches (millimeters) unless otherwise shown,

ECTION AT TURN BAYS To Traffic)		F.A.P. RTE.	SEC	TION	0	OUNTY	TOTAL SHEETS	SHEET NO.	
		856	56 (EX&JX)RS-4			WILL	21	18	
			TC-14		C	ONTRACT	NO. 6	0v44	
	STA.	TO STA.	FED, RO	DAD DIST. NO. 1	ILL INOIS FED.	AID PR	OJECT		



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

TERS AND SYMBOLS Staging			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			856	(EX&JX)RS-4	WILL	21	19
STAGING				TC-16	CONTRACT NO. 60V44		
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

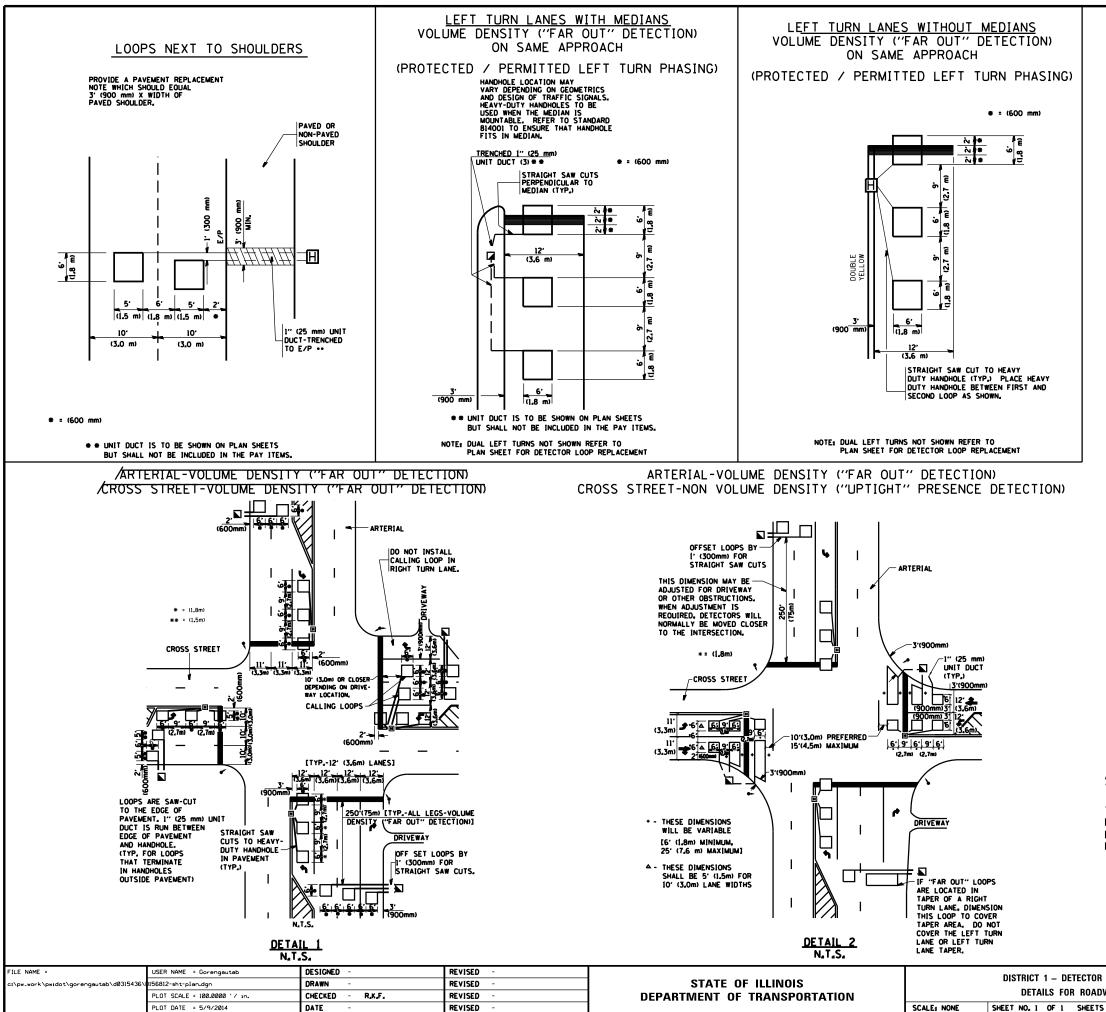


LOT DATE = 5/9/2014

DATE

REVISED - C. JUCIUS 01-31-07

			_				
ROAD N_SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			856	(EX&JX)RS-4	WÌLL	21	20
			TC-22		CONTRACT NO. 60V44		
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SHEET NO. 1 OF 1 SHEETS

# 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. <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.		
			856	(EX&JX)RS-4	WILL	21	21		
~~	NAT RESURFACING			TS-07	CONTRACT	NO, E	50744		
5	STA.	TO STA.	FED. RC	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					