08-01-14 LETTING ITEM 007

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGE OF MAYWOOD.

TRAFFIC DATA:

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2011 AADT = 3800

POSTED SPEED LIMIT = 30 MPH

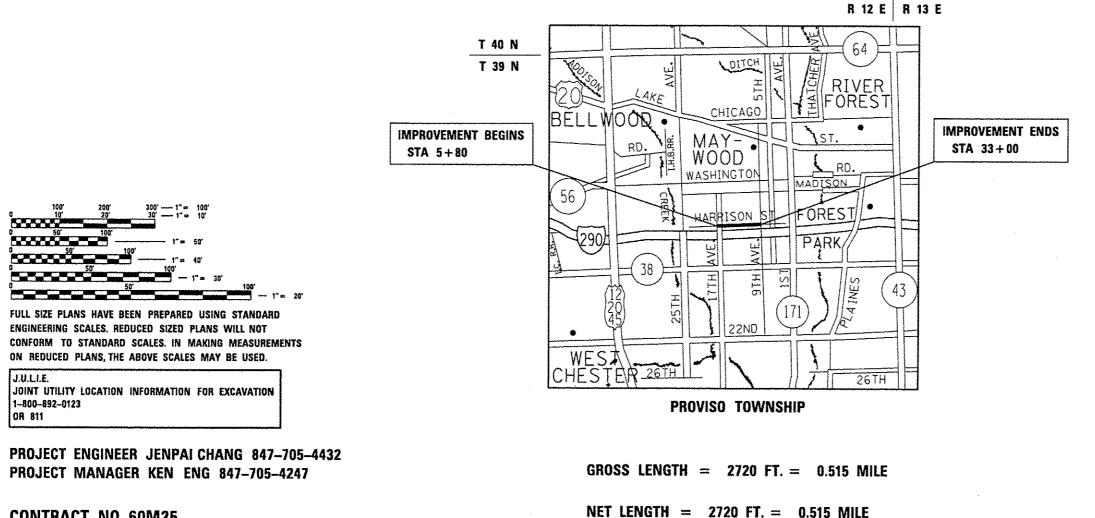
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

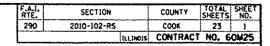
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 290: HARRISON ST. 17TH AVE. TO 9TH AVE. SECTION 2010–102–RS RESURFACING (3P) COOK COUNTY C–91–092–11

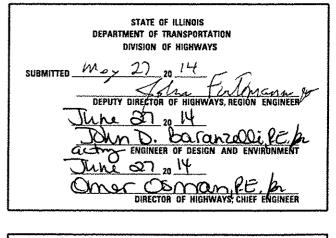


CONTRACT NO. 60M25









PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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STATE STANDARDS

AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

PERMISSION FROM THE DEPARTMENT.

SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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

BY THE ENGINEER,

TO CONSTRUCTION AND ORDERING OF MATERIALS.

THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

ON WHICH THE HMA MIXTURE IS PLACED.

OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.

THE PLANS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)9=32SHOWN IN THE PLANS.

OTHERWISE SPECIFIED.

1	FILE NAME X	WER NOME + Shang)	DESIGNED	REVISED		
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1		PL07 SCALE + 100.0000 1 / in.	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS 8
L		PLUT DALE + 5/29/2014	DATE -	REVISED	Service of the servic	SCALEI SHEET NO. 1 OF 1 SHEETS STA

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULLIE. AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO WATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND WEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF MAYWOOD.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN
- 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.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE
- 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.
- LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, WILL BE DETERMINED IN THE FIELD
- ORAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR
- FRAMES AND CRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR ANDY SCHUETZE AT (847)705-4470
- THE ENGINEER SHALL CONTACT PATRICE HARRIS. AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO (2)
- THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE
- THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES BY STATION AND
- FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN

- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL TYPICAL APPLICATIONS RAISED
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM CRADE 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 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE NILLING IS SLOPED A MINIMUM 1:3 (VIH).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE 7"32BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS9"32SHEET INCLUDED IN THE PLANS, UNLESS

& GENERAL NOTES		2010-102-45	CONTRACT	NO. 6	OM25
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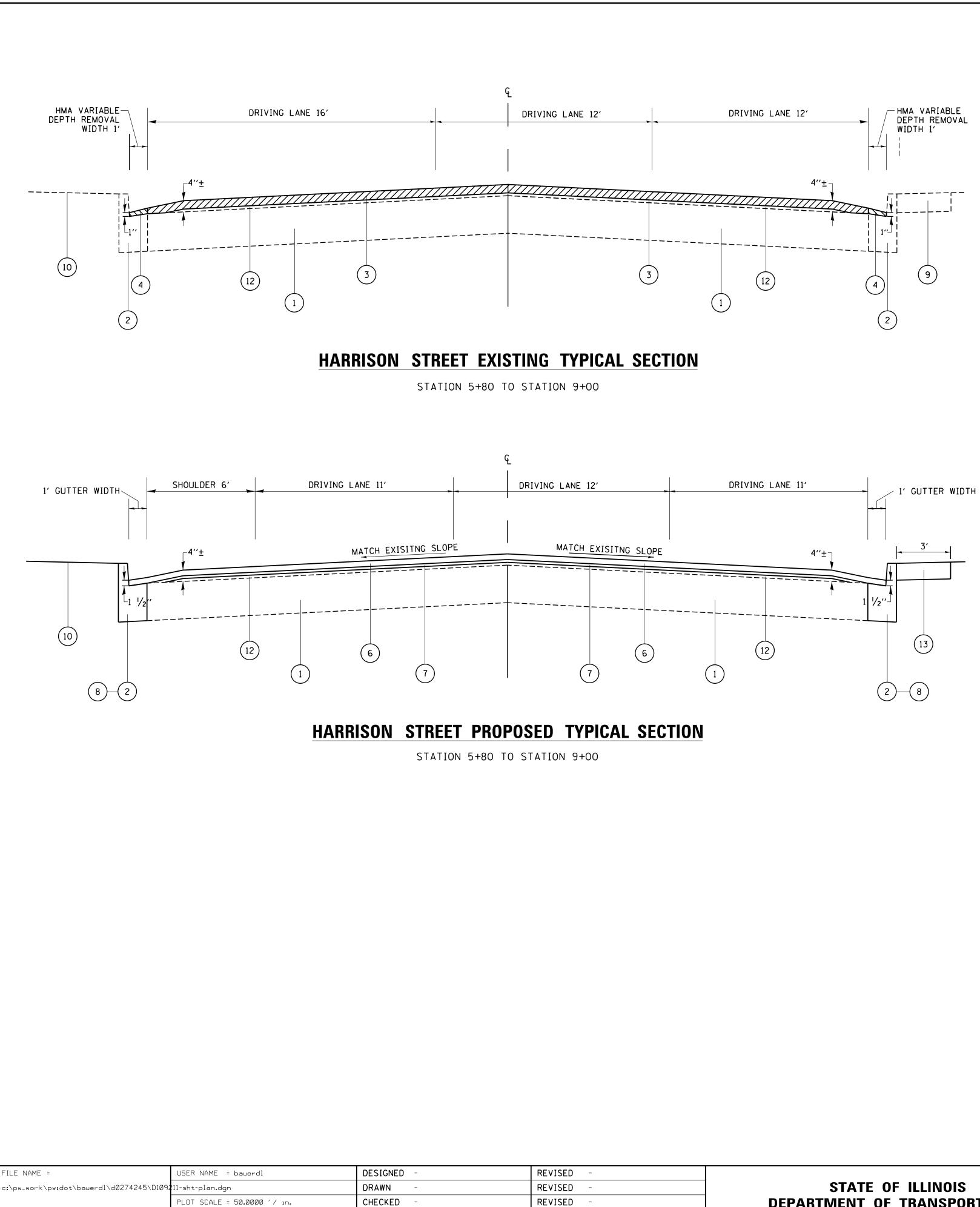
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TO 9th AV	E.)	F.A.J. RTE. 290	SECTION 2010-102-RS	COUNTY COOK CONTRACT	TOTAL SHEET SHEETS NO. 23 4

TO STA. FED. ROAD DIST. NO. 1 ILLINDISIFED. AND PROJECT



PLOT DATE = 5/28/2014

DATE

REVISED

LEGEND

1	EXISTING 10" P.C.C.
2	EXISTING B-6.12 CO
3	PROPOSED HOT-MIX
4	PROPOSED HOT-MIX
5	PROPOSED HOT-MIX
6	PROPOSED HOT-MIX
(7)	PROP. POLYMERIZED
8	PROPOSED COMINATION REPLACEMENT (LOCAT
9	EXISTING HOT-MIX A
(10)	EXISTING TOPSOIL A
(11)	EXISTING HOT-MIX A
(12)	EXISTING HOT-MIX A
13	PROPOSED HMA SURF (SIDEWALK ATTACHED

HMA MIXTURE REQUIREMENT									
OPERATION	MIXTURE TYPE	AIR VOIDS Ndes	QMP						
ROADWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.	QCP						
NOADWAT	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 Gyr.	QC/QA						
	CLASS D PATCHES, (HMA BINDER IL-19)	4% @ 70 Gyr.	QC/QA						
PATCHES	HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm)	4% @ 70 Gyr.	QC/QA						
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.	QCP						
SHOULDERS	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 Gyr.	QC/QA						
P. LANES	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.	QCP						
SIDEWALK	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 Gyr.	QCP						

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA), QUALITY CONTROL FOR PERFORMANCE (QCP)

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

AC TYPE NOTE:

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 64-28" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS, SEE DISTRICT ONE SPECIAL PROVISIONS.

QMP NOTE:

"QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE"

NOTE:

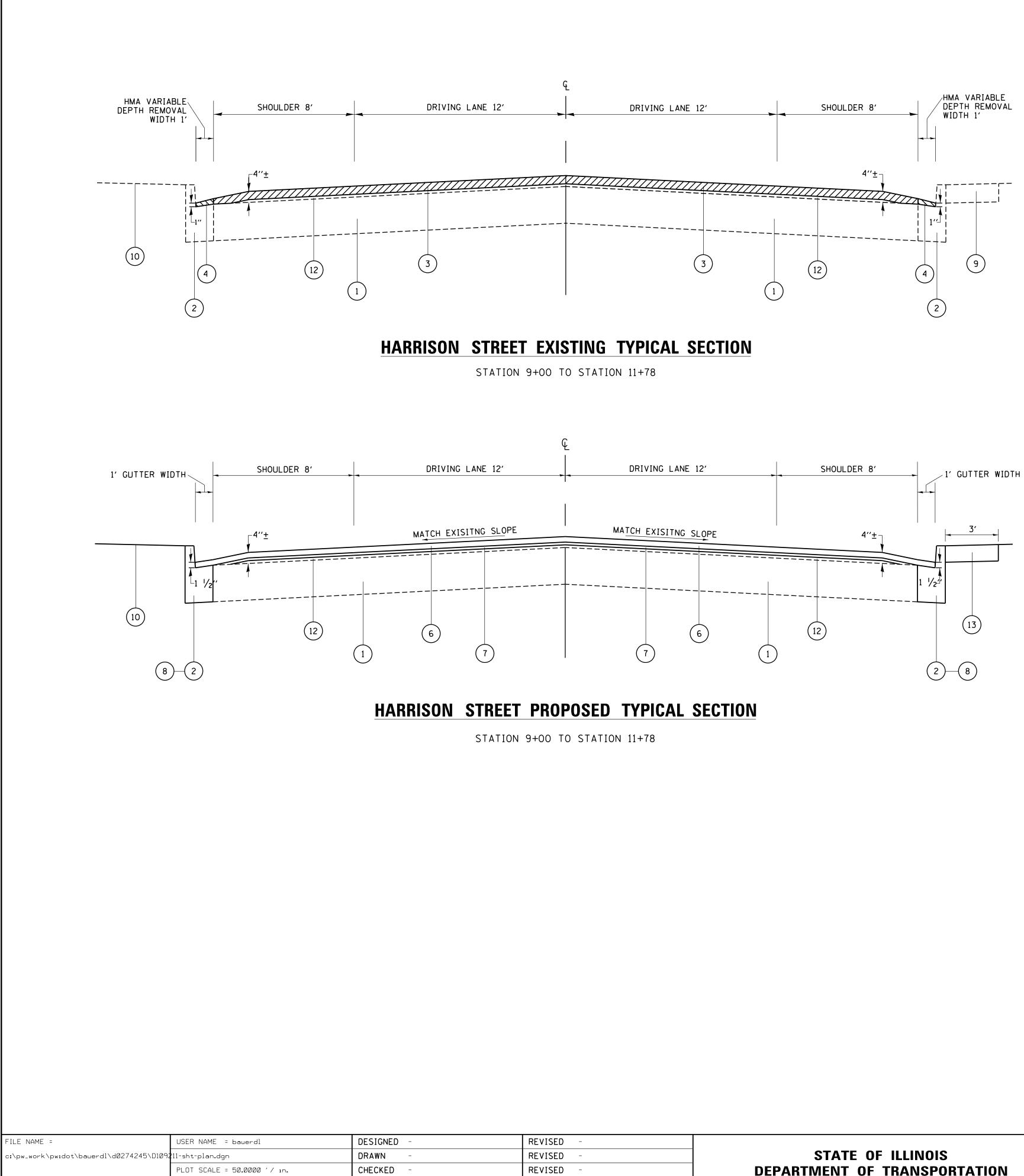
THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

STATE OF ILLINOIS		HARRISON STREET (17th
DEPARTMENT OF TRANSPORTATION	E	XISTING AND PROPOSED
	SCALE:	SHEET NO. 1 OF 3 SHEETS

PAVEMENT. OMBINATION CONCRETE CURB AND GUTTER. ASPHALT SURFACE REMOVAL, 2 1/4" ASPHALT SURFACE REMOVAL, VARIABLE DEPTH ASPHALT SURFACE REMOVAL, 1 1/2" ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" ION CONCRETE CURB AND GUTTER REMOVAL AND ATIONS TO BE DETERMINED BY THE ENGINEER) ASPHALT SIDEWALK, 4" AND SOD ASPHALT AFTER MILLING, 2 1/2"± ASPHALT AFTER MILLING, 1 3/4"± RFACE COURSE, MIX "D", N50, 4"

ED TO CURB & GUTTER)

n AVE. TO 9th AVE.) D TYPICAL SECTIONS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2010-102-RS	СООК	23	5
			CONTRACT	NO. 6	OM25
STA. 5+80 TO STA. 9+00		ILLINOIS FED. A	D PROJECT		



REVISED

DATE

PLOT DATE = 5/28/2014

1	EXISTING 10" P.C.C. PAVEMENT.
2	EXISTING B-6.12 COMBINATION CONCRETE C
3	PROPOSED HOT-MIX ASPHALT SURFACE REMO
4	PROPOSED HOT-MIX ASPHALT SURFACE REMO
5	PROPOSED HOT-MIX ASPHALT SURFACE REMO
6	PROPOSED HOT-MIX ASPHALT SURFACE COUP
7	PROP. POLYMERIZED LEVELING BINDER (MAC
8	PROPOSED COMINATION CONCRETE CURB AND REPLACEMENT (LOCATIONS TO BE DETERMINI
9	EXISTING HOT-MIX ASPHALT SIDEWALK, 4"
(10)	EXISTING TOPSOIL AND SOD
(11)	EXISTING HOT-MIX ASPHALT AFTER MILLING
(12)	EXISTING HOT-MIX ASPHALT AFTER MILLING
(13)	PROPOSED HMA SURFACE COURSE, MIX "D", (SIDEWALK ATTACHED TO CURB & GUTTER)

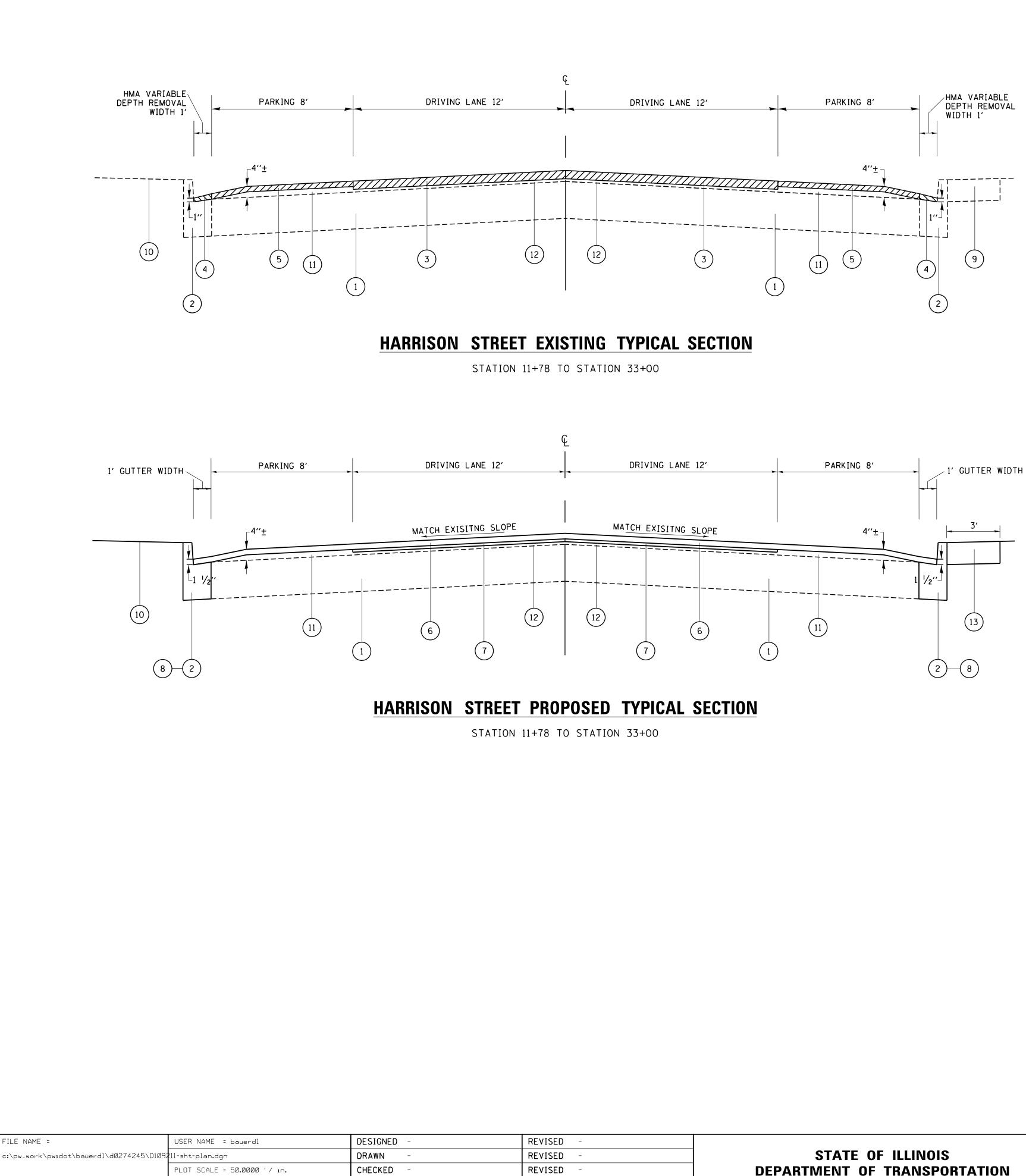
LEGEND

NOTES:

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

			HARRISON STREET (17th AVE. TO 9th AVE.)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS			2010-102-RS	СООК	23	6
				_		CONTRACT	NO. 60	ОМ25
		SCALE:	SHEET NO. 2 OF 3 SHEETS STA. 9+00 TO STA. 11+78		ILLINOIS FED. A	ID PROJECT		

OMBINATION CONCRETE CURB AND GUTTER. ASPHALT SURFACE REMOVAL, 2 1/4" ASPHALT SURFACE REMOVAL, VARIABLE DEPTH ASPHALT SURFACE REMOVAL, 1 1/2" ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" ION CONCRETE CURB AND GUTTER REMOVAL AND ATIONS TO BE DETERMINED BY THE ENGINEER) ASPHALT SIDEWALK, 4" AND SOD ASPHALT AFTER MILLING, 2 1/2"± ASPHALT AFTER MILLING, 1 3/4"± RFACE COURSE, MIX "D", N50, 4"



REVISED

DATE

PLOT DATE = 5/28/2014

(1)	EXISTING 10" P.C.C. PAVEMENT.
2	EXISTING B-6.12 COMBINATION CONCRETE C
3	PROPOSED HOT-MIX ASPHALT SURFACE REMO
4	PROPOSED HOT-MIX ASPHALT SURFACE REMO
5	PROPOSED HOT-MIX ASPHALT SURFACE REMO
6	PROPOSED HOT-MIX ASPHALT SURFACE COUF
7	PROP. POLYMERIZED LEVELING BINDER (MAC
8	PROPOSED COMINATION CONCRETE CURB AND REPLACEMENT (LOCATIONS TO BE DETERMIN
9	EXISTING HOT-MIX ASPHALT SIDEWALK, 4"
(10	EXISTING TOPSOIL AND SOD
(11)	EXISTING HOT-MIX ASPHALT AFTER MILLING
(12)	EXISTING HOT-MIX ASPHALT AFTER MILLING
(13	PROPOSED HMA SURFACE COURSE, MIX ''D'', (SIDEWALK ATTACHED TO CURB & GUTTER)

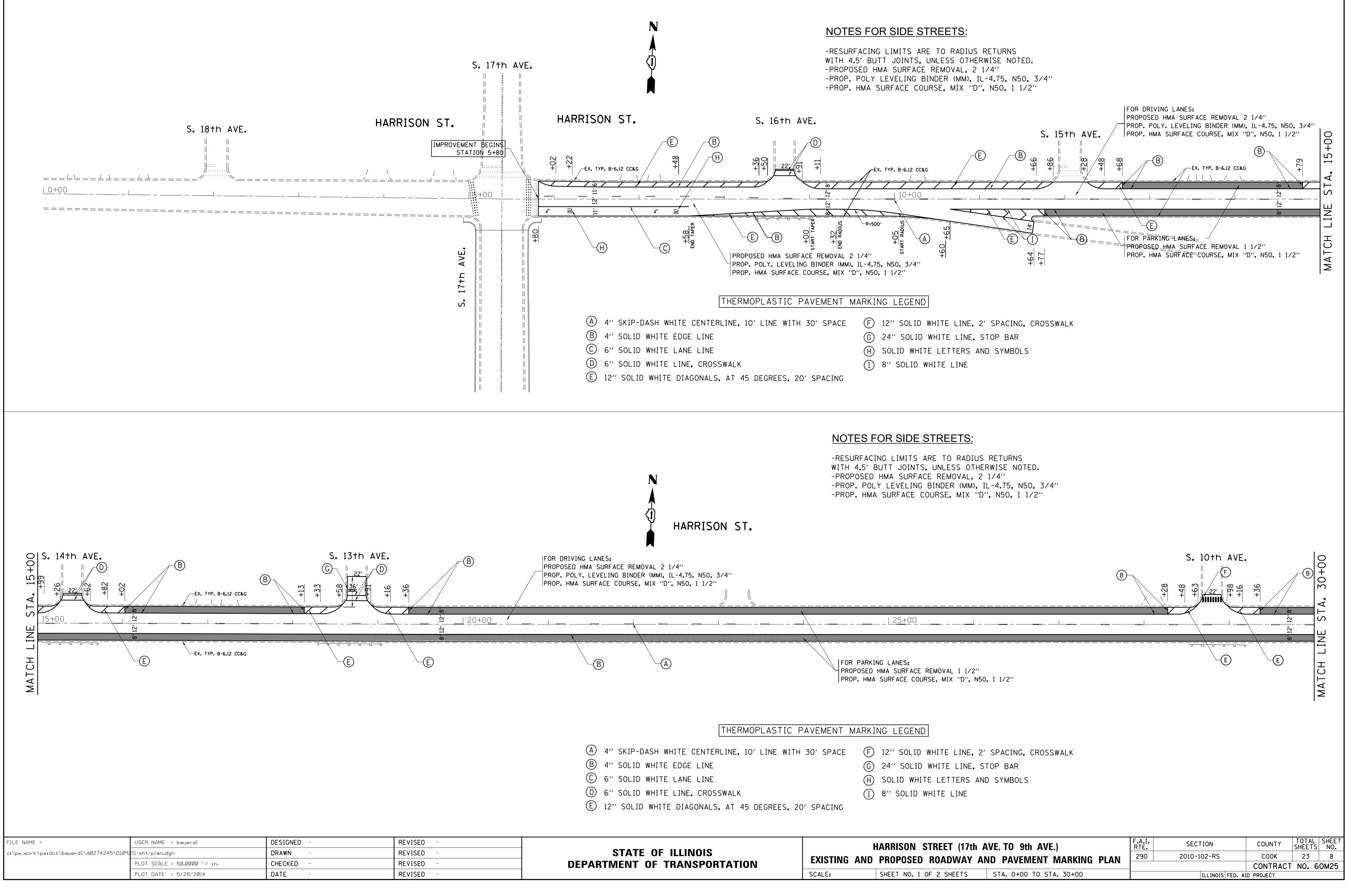
LEGEND

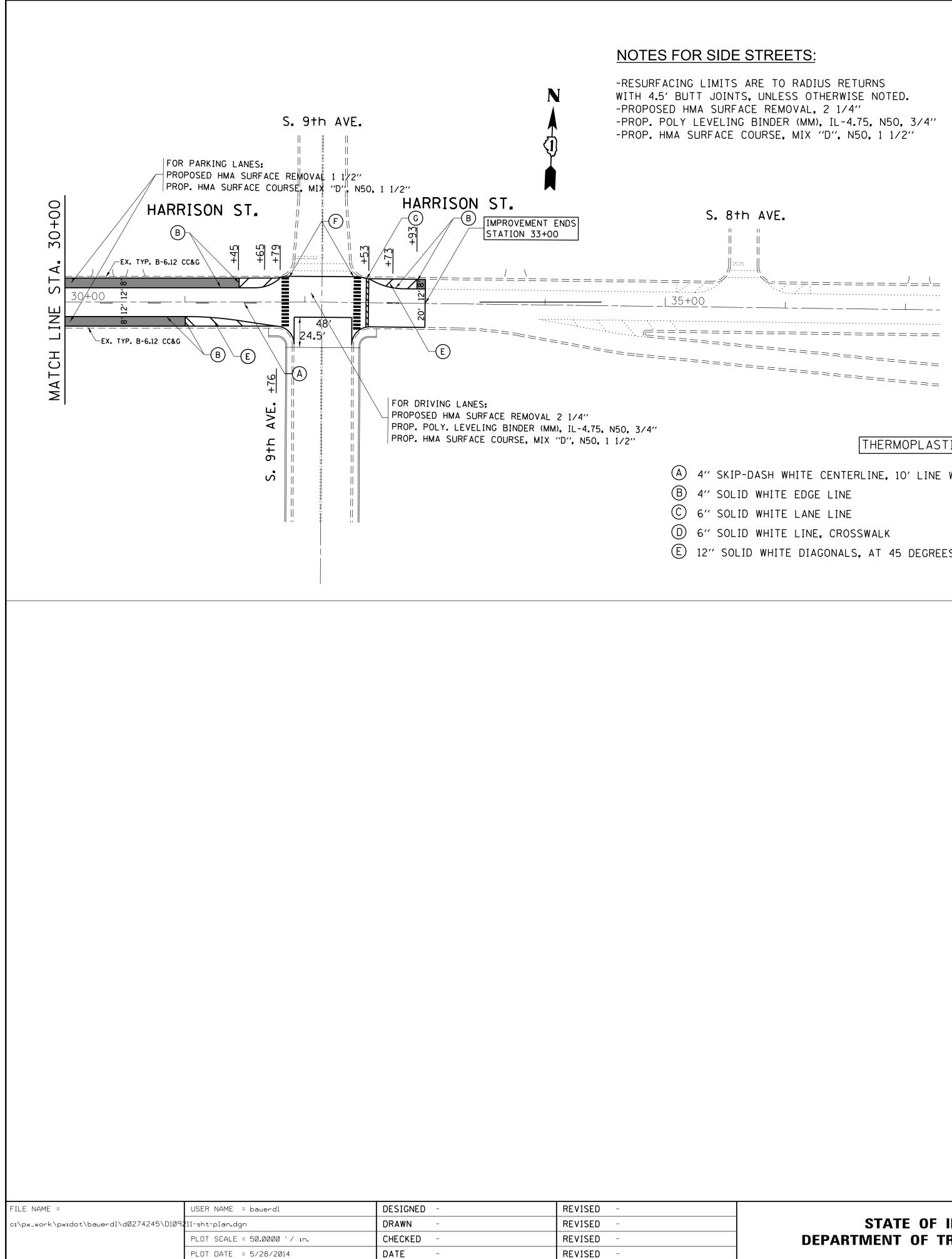
NOTES:

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

		HARRISON STREET (17th AVE. TO 9th AVE.)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS			2010-102-RS	СООК	23	7
DEPARTMENT OF TRANSPORTATION		EXISTING AND THOROUGED THICKE SECTIONS			CONTRAC	T NO. 60	ОМ25
	SCALE:	SHEET NO. 3 OF 3 SHEETS STA. 11+78 TO STA. 33+00		ILLINOIS FED. A	ID PROJECT		

OMBINATION CONCRETE CURB AND GUTTER. ASPHALT SURFACE REMOVAL, 2 1/4" ASPHALT SURFACE REMOVAL, VARIABLE DEPTH ASPHALT SURFACE REMOVAL, 1 1/2" ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2" LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" ION CONCRETE CURB AND GUTTER REMOVAL AND ATIONS TO BE DETERMINED BY THE ENGINEER) ASPHALT SIDEWALK, 4" AND SOD ASPHALT AFTER MILLING, 2 1/2"± ASPHALT AFTER MILLING, 1 3/4"± RFACE COURSE, MIX "D", N50, 4"





THERMOPLASTIC PAVEMENT MARKING LEGEND

- \bigcirc 4" SKIP-DASH WHITE CENTERLINE, 10' LINE WITH 30' SPACE \bigcirc 12" SOLID WHITE LINE, 2' SPACING, CROSSWALK

- (E) 12" SOLID WHITE DIAGONALS, AT 45 DEGREES, 20' SPACING
- G 24" SOLID WHITE LINE, STOP BAR
- (H) SOLID WHITE LETTERS AND SYMBOLS
- (I) 8" SOLID WHITE LINE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		HARRISON STREET (17th PROPOSED ROADWAY
	SCALE:	SHEET NO. 2 OF 2 SHEETS

AVE. TO 9th AVE.)	
	EET IO.
AND PAVEMENT MARKING PLAN 290 2010-102-RS COOK 23	9
CONTRACT NO. 60M	25
STA. 30+00 TO STA. 37+00 ILLINOIS FED. AID PROJECT	

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.

Discondert

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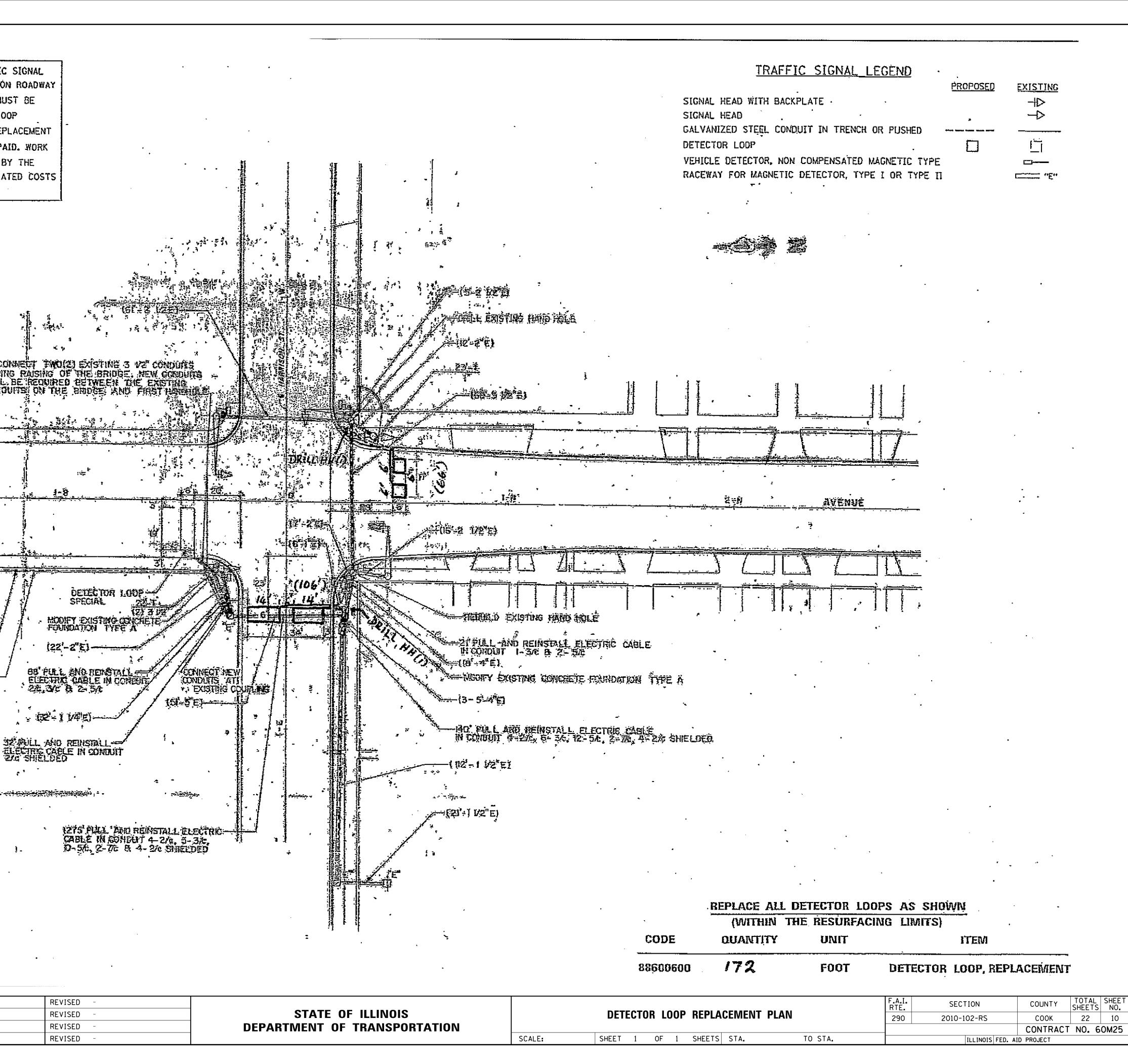
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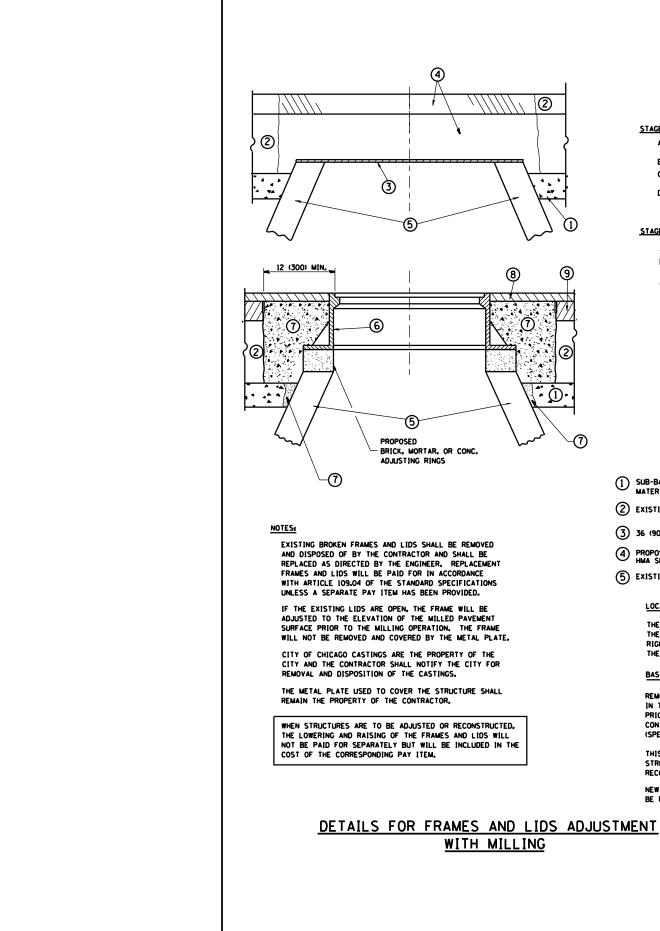
REVISED DESIGNED ILE NAME = USER NAME = bauerdl REVISED DRAWN :\pw_work\pw1dot\bauerdl\d0274245\D1092 11-sht-plan.dgn REVISED CHECKED PLOT SCALE = 50.0000 ' / 1n. DATE PLOT DATE = 5/28/2014 REVISED

THIS PLAN IS FOR THE SOLE PURPOSE OF

DETECTOR LOOP REPLACEMENTS ONLY



	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LACEMENT PLAN		2010-102-RS	СООК	22	10
	_		CONTRACT	NO. 6	0М25
TS STA. TO STA.	ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04		DETAILS FOR	F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\bauerdl\d0274245\DistS	td.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		290 2010-102-RS	СООК 23 11
	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. 60M25
	PLOT DATE = 5/28/2014	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		AID PROJECT

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.

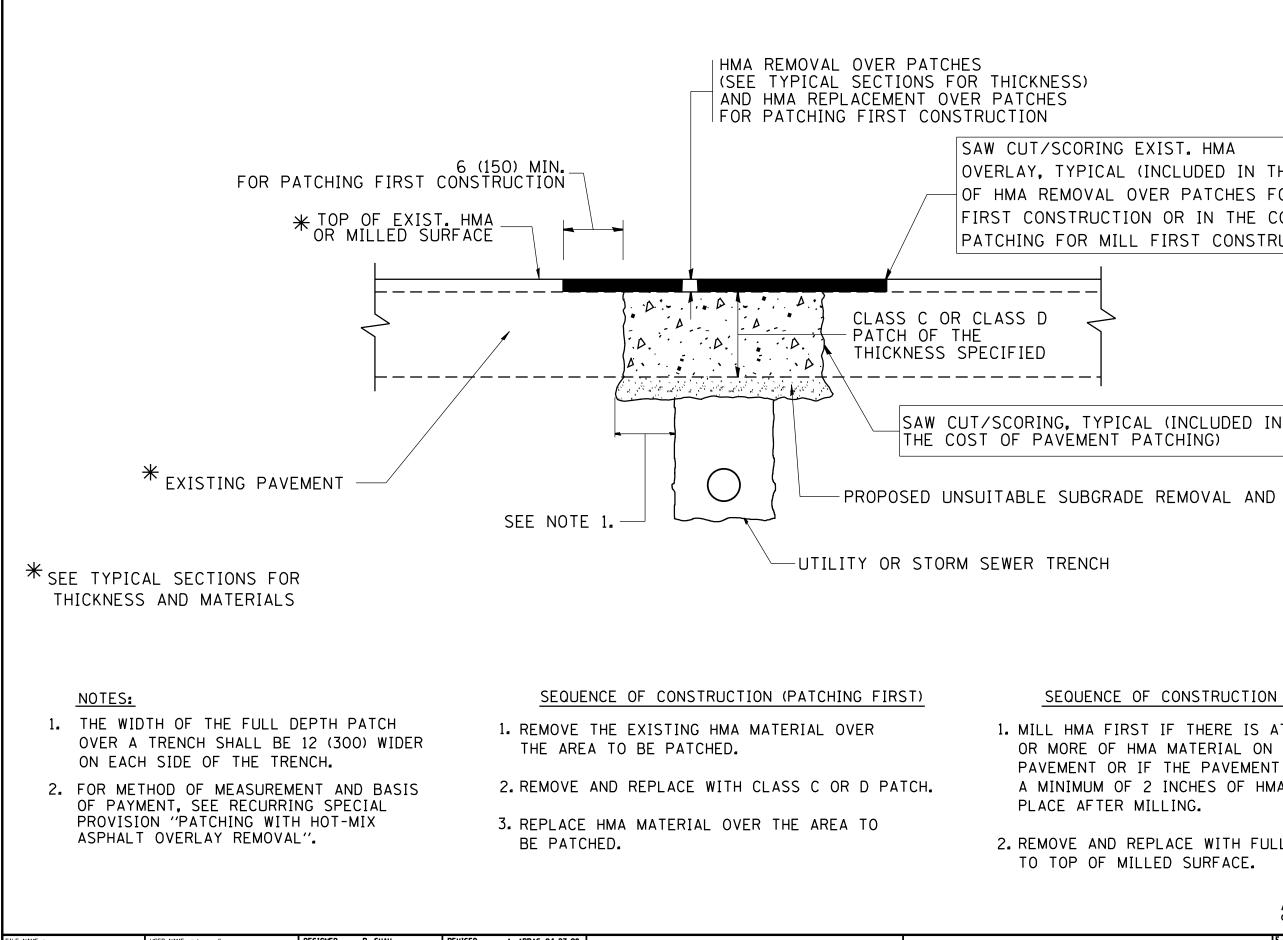
BASIS OF PAYMENT

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 OTHE	ERWISE SHOWN
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FILE NAME =		USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A, ABBAS 04-27-98		PAVEMENT PATCHING FOR			F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\baue	uerdl\d0274245\DistSt		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				290	2010-102-RS	COOK	23 12
		PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION			3D400-04 (BD-22)		T NO, 60M25		
		PLOT DATE = 5/28/2014	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED.		

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).

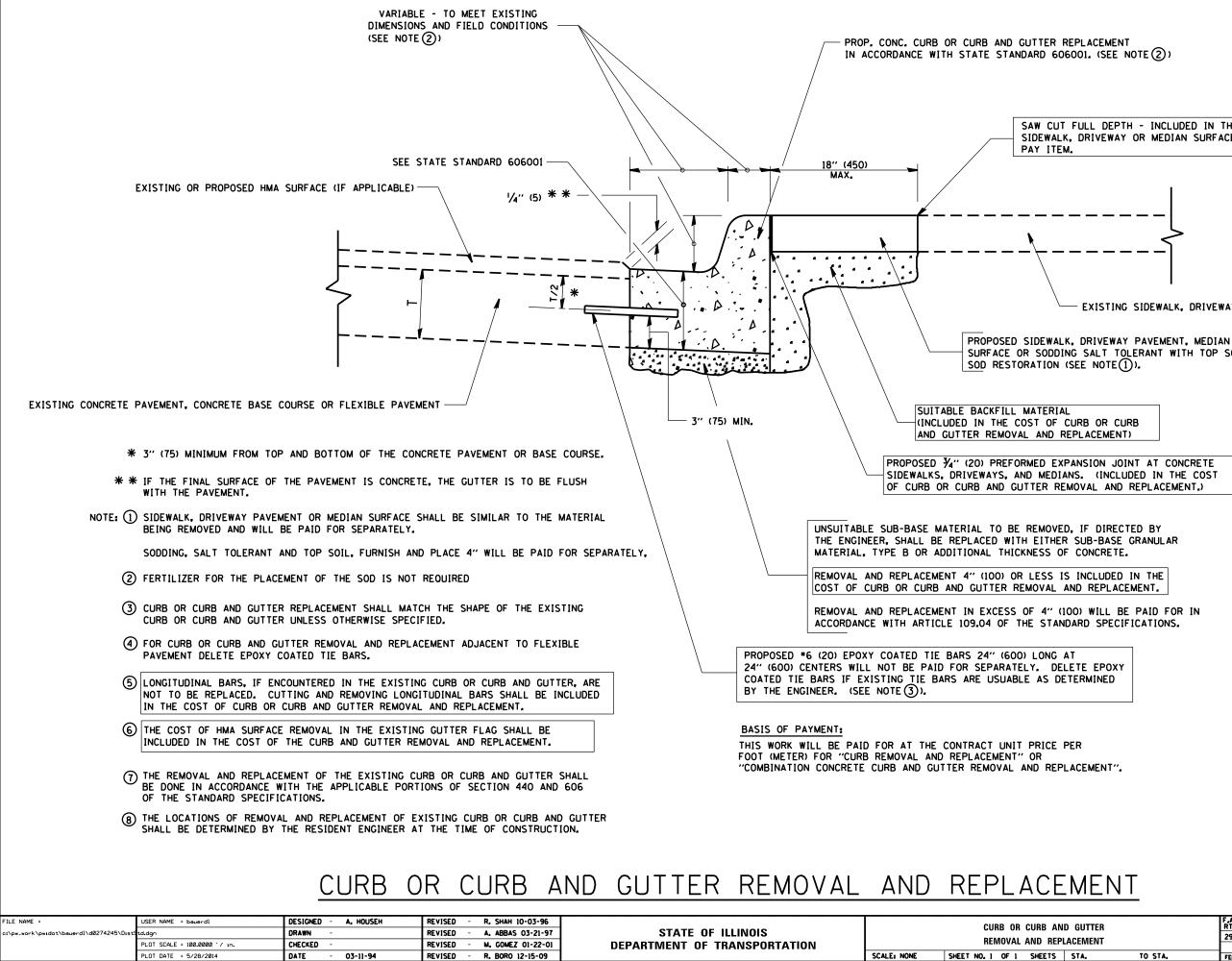
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

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.



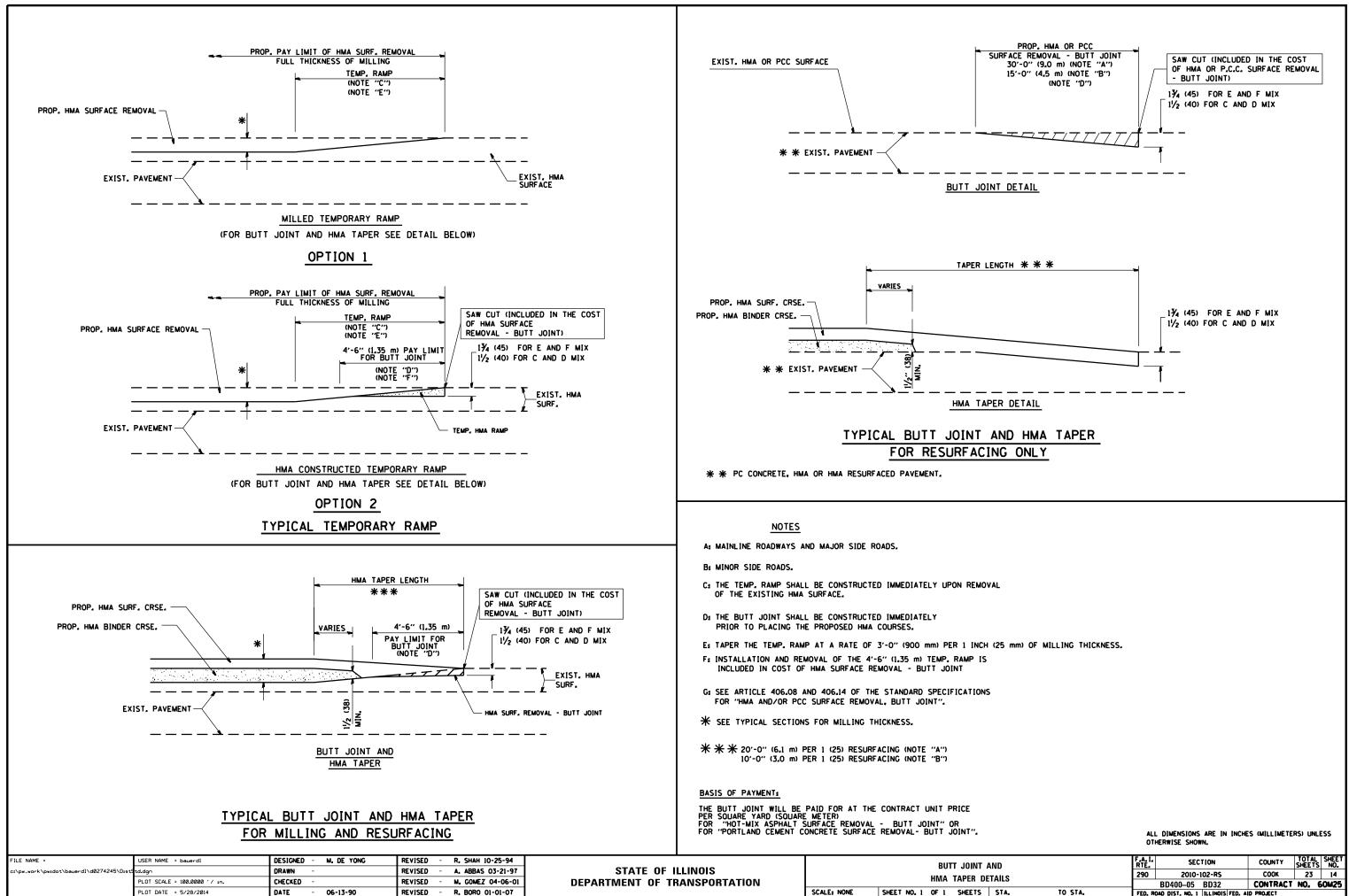
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

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

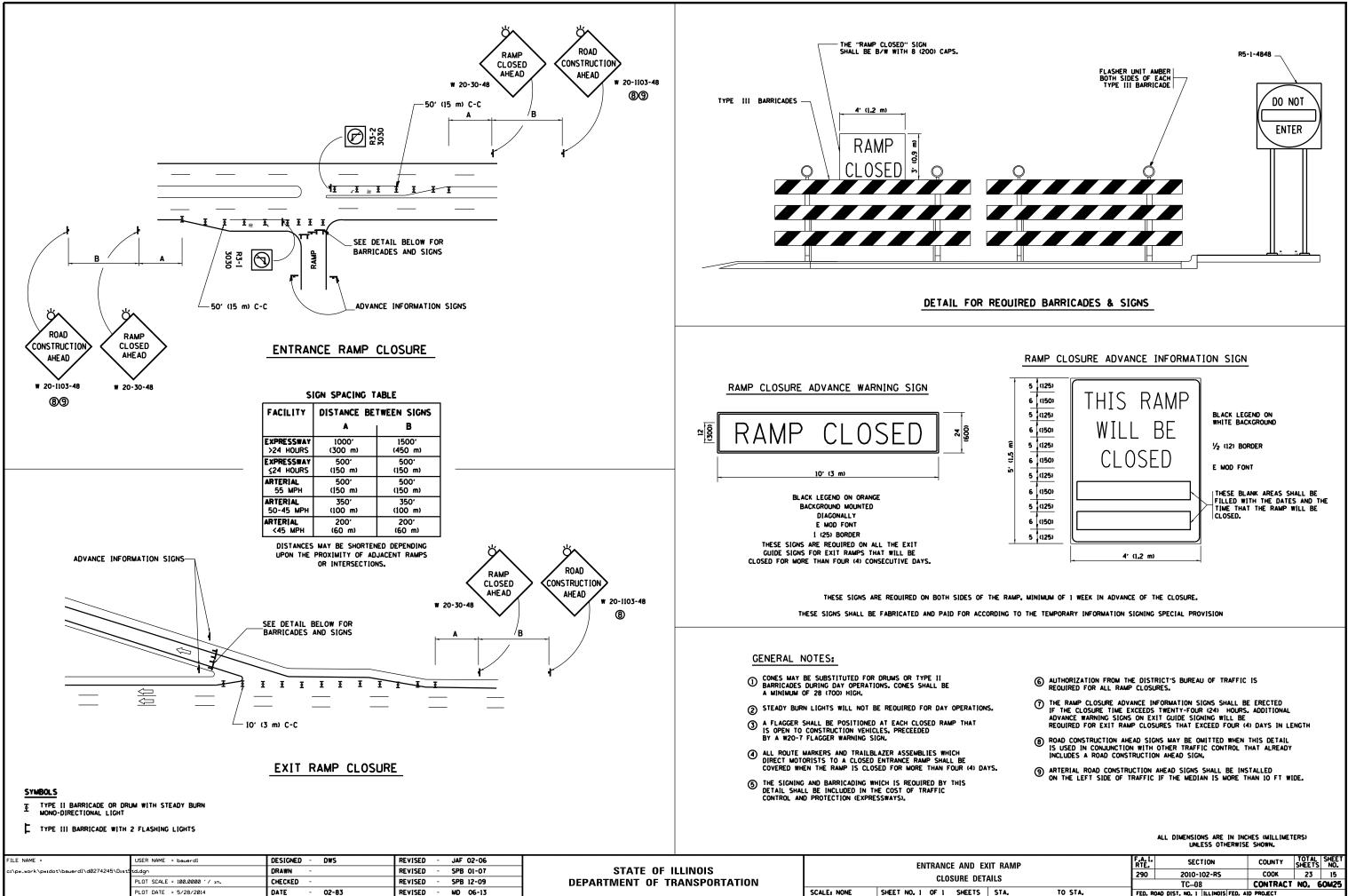
SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE (1).

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

		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLACEMENT		290	2010-102-RS	COOK	23	13	
		_	BD600-06 (BD-24)	CONTRACT	NO. E	50M25	
5	STA,	TO STA.	FED, R	OAD DIST. NO. 1 ILLINDIS FED. A	D PROJECT		

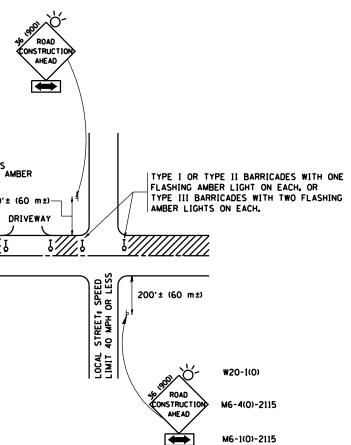


AND		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ETAILS		2010-102-RS	COOK	23	14
		BD400–05 BD32	CONTRACT	NO. E	60M25
STA. TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



8 17 ROAD CONSTRUC 15 (380) 21 (53	(IIII) (IIIII) (IIIII) (IIII) (IIII) (IIII) (IIII) (IIII) (IIIII) (IIII) (IIIII) (IIIII) (IIII) (IIIII) (IIIIIII) (IIIII) (IIIII) (IIIIIIII		TYPE III BA WITH TWO F LIGHTS ON I	RRICADES LASHING A EACH. 200'1 RK AREA I
		COLLECTOR SPEED LIMIT> 40 MPH (60 Km/h)	THE USED TO AND	
TRAFFIC	CONTROL	. AND	PROTECTION	FOR S
SHOWN ON THE DR O) ONE ROAD CONS AND FLAG MOUN OF THE MAIN R D) THE CLOSED PO BLOCKING WITH	A SPEED LIMIT O TAWING AND AS D TRUCTION AHEAD ATED ON IT APPR OUTE.	F 40 MPH (IRECTED B) SIGN 36 × DXIMATELY AIN ROUTE OR TYPE	(60 km/h) OR LESS AS Y THE ENGINEER: 36 (900×900) WITH A FI 200' (60 m) IN ADVANCE SHALL BE PROTECTED BY 111 BARRICADES, 1/3 OF	LASHER
2. SIDE ROAD WITH A AS SHOWN ON THE O) ONE ROAD CONS FLASHER MOUNT	A SPEED LIMIT G DRAWING AND A TRUCTION AHEAD	REATER THA S DIRECTED SIGN 48 ×	AN 40 MPH (60 km/h)) By The Engineer: 48 (1.2 m x 1.2 m) With 500' (150 m) IN Advance	A
	RTION OF THE MA		SHALL BE PROTECTED BY OF THE CROSS SECTION	
be used in lieu	WORK ZONE, A S	INGLE HEAD	INNING OF THE MAINLINE Ded Arrow (M6-1) Shall Row (M6-4).	

1	FILE NAME =	USER NAME = bauerdl	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95		TRAFFIC CONTROL AND PROTECTION FOR		F.A.I. RTF. SECTION	COUNTY TOTAL SHEET SHEETS NO.
	c:\pw_work\pwidot\bauerdl\d0274245\DistS	td.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			290 2010-102-RS	СООК 23 16
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 60M25
		PLOT DATE = 5/28/2014	DATE - 06-89	REVISED -T, RAMMACHER 01-06-00				FED. ROAD DIST. NO. 1 ILLINOIS FED. 4	

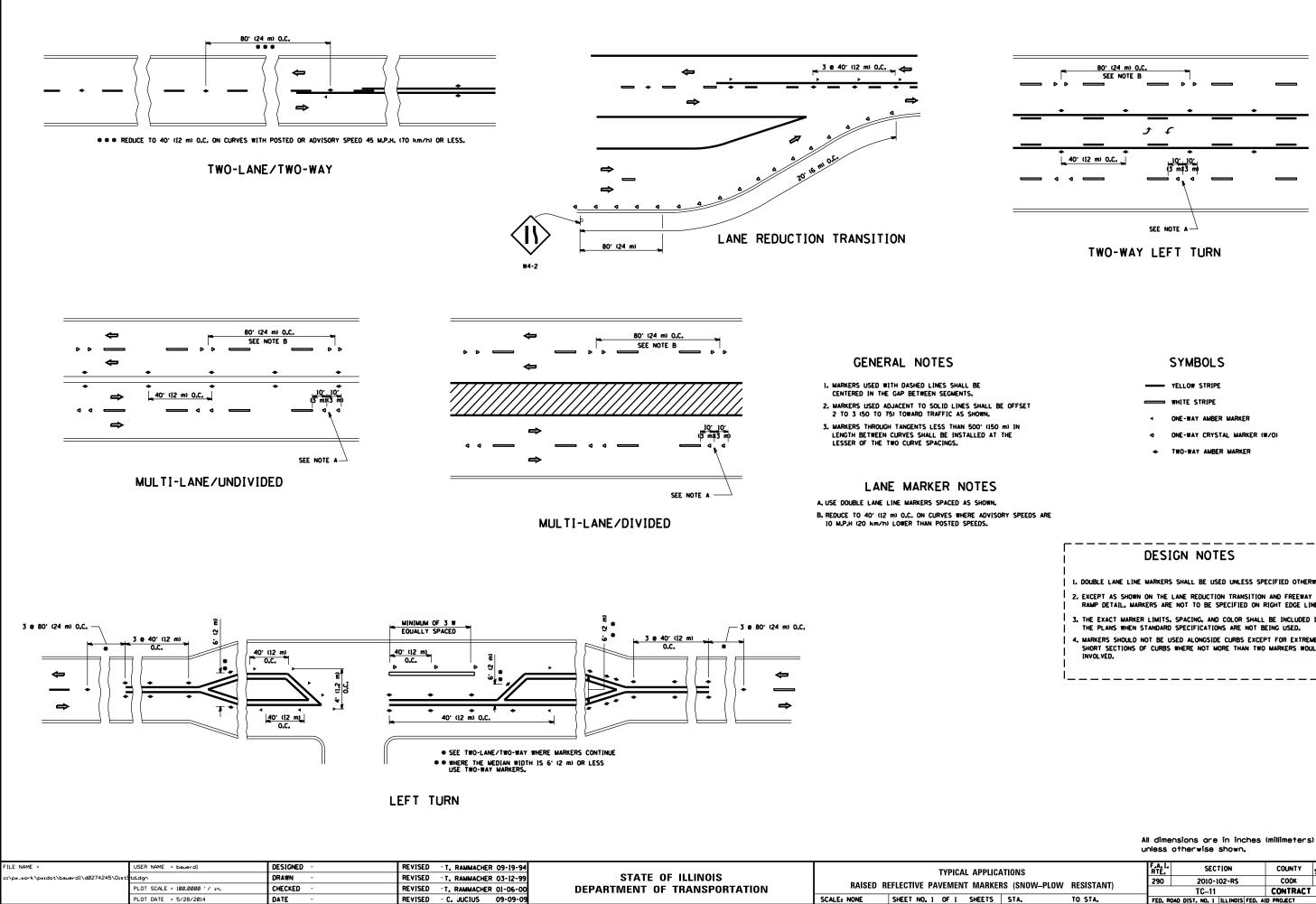


SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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,

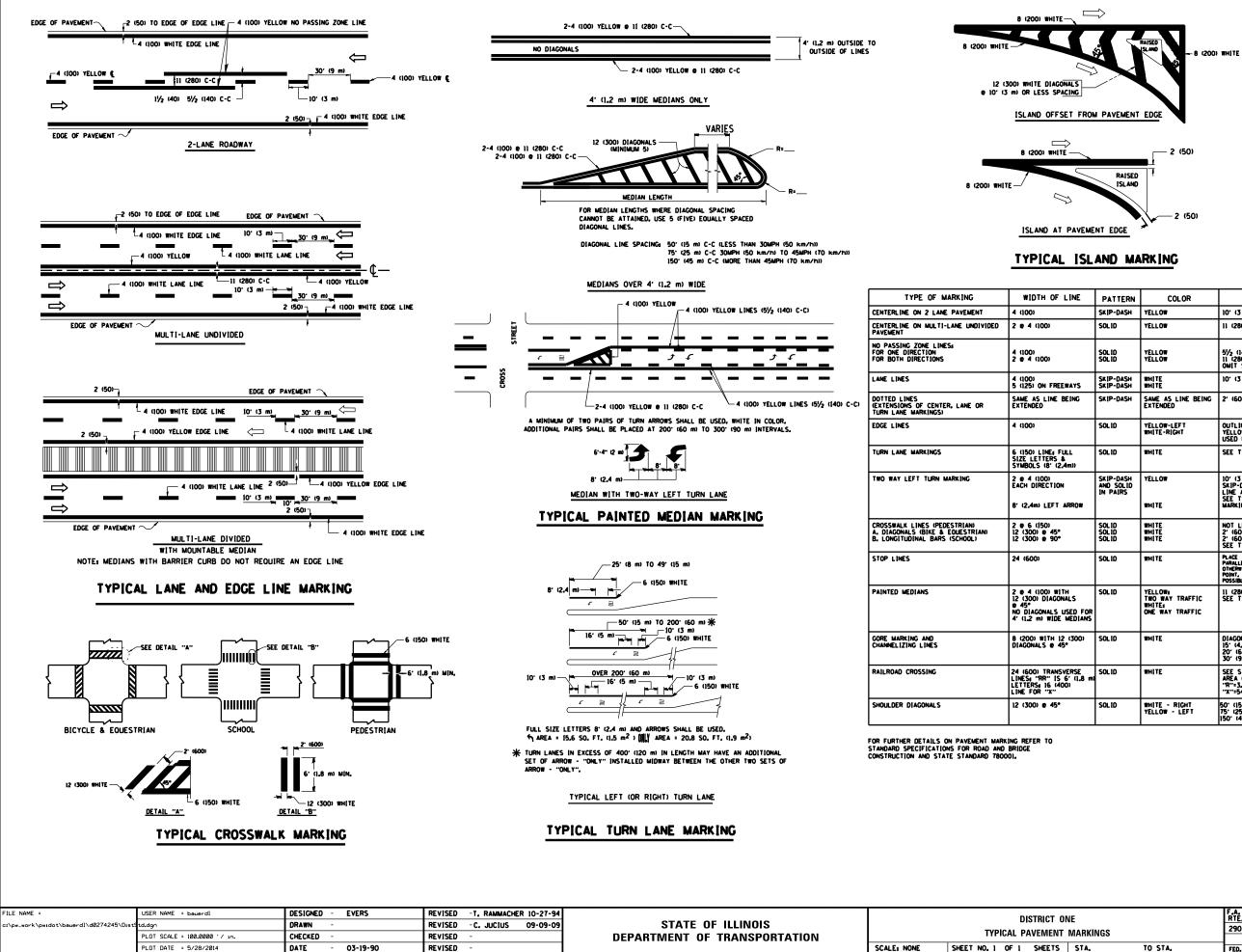


	YELLOW STRIPE
BE OFFSET	WHITE STRIPE
50 m) IN	ONE-WAY AMBER MARKER
T THE	⊲ ONE-WAY CRYSTAL MARKER (₩/O)
	TWO-WAY AMBER MARKER

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,	

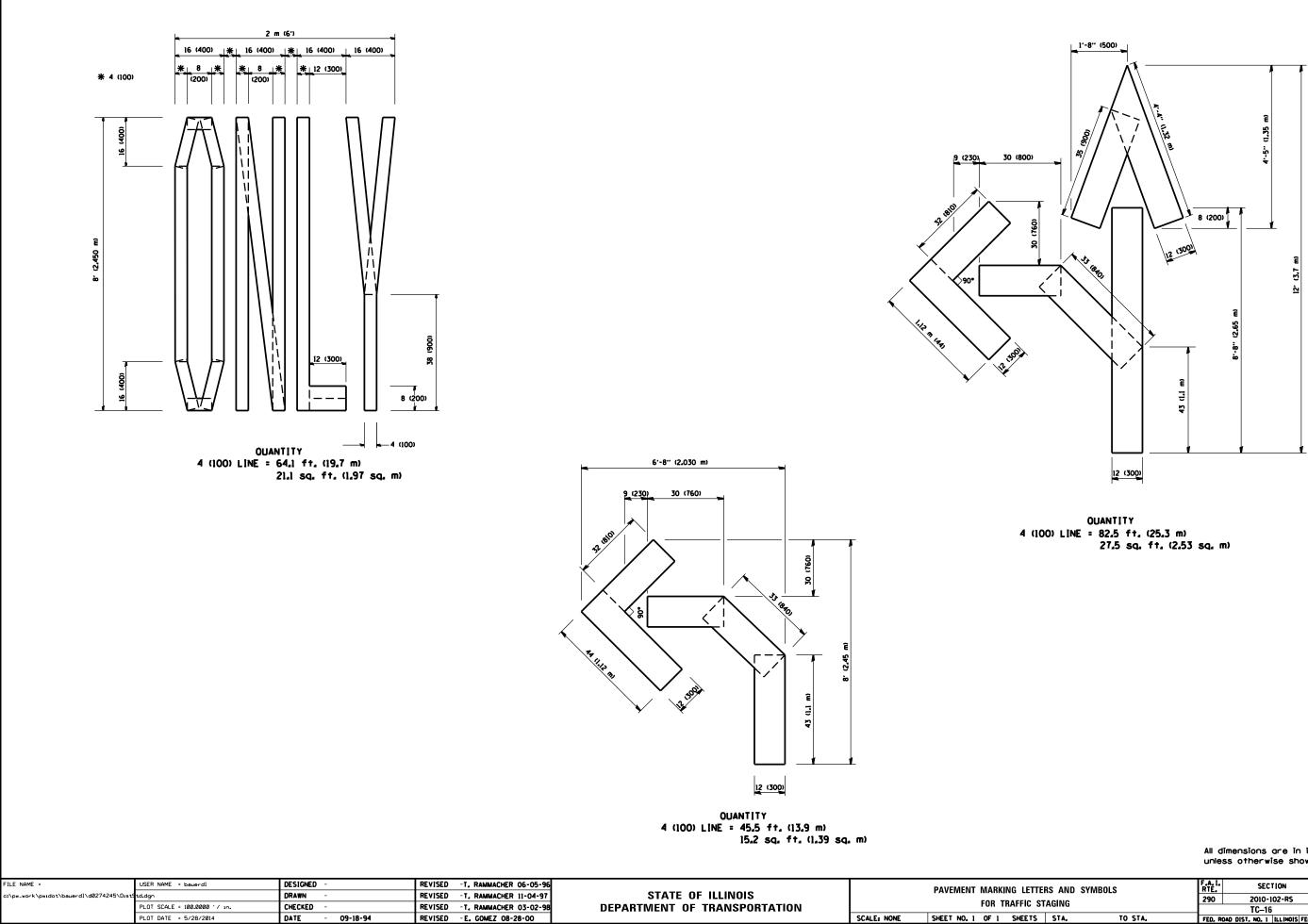
ZERS (SNOW-PLOW RESISTANT) 290 2010-102-RS COOK 23 17 TC-11 TC-11 CONTRACT NO. 60M25 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	CATIONS	F.A. I. RTE.	SEC	TION	COUNTY	TOTAL Sheets	SHEET NO.	
TC-11 CONTRACT NO. 60M25	EDS (SNOW) DLOW DESISTANT	290	2010-102-RS		COOK	23	17	
STA. TO STA. FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT	LING (SNOW-FLOW RESISTANT)		TC-11			CONTRACT	NO.	60M25
	STA, TO STA,	FED. R	DAD DIST. NO. 1	ILLINOIS	FED. A	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))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10'13 mì LINE WITH 30'19 mì SPACE FOR SKIP-DASHE 5½ (140) C-C BETWEEN SOLID Line And SkiP-DASH Line See Typical Two-Way Left Turn Marring Detail
	SOL 1D SOL 1D SOL 1D	WHITE WHITE WHITE	NOT LESS THAN 6' (1,8 m) 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 CROSSMALS, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOL ID	YELLOW: TWO WAY TRAFFIC WHITE: 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) T0 45MPH (70 km/h)) 30' (9 m) C-C (UVER 45MPH (70 km/h))
VERSE 6' (1,8 m) 00)	SOL 1D	WHITE	SEE STATE STANDARD 780001 AREA 0F1 "R"=3.6 S0, FT, (0.33 m ²) EACH "X"=54.0 S0, FT, (5.0 m ²)
	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) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

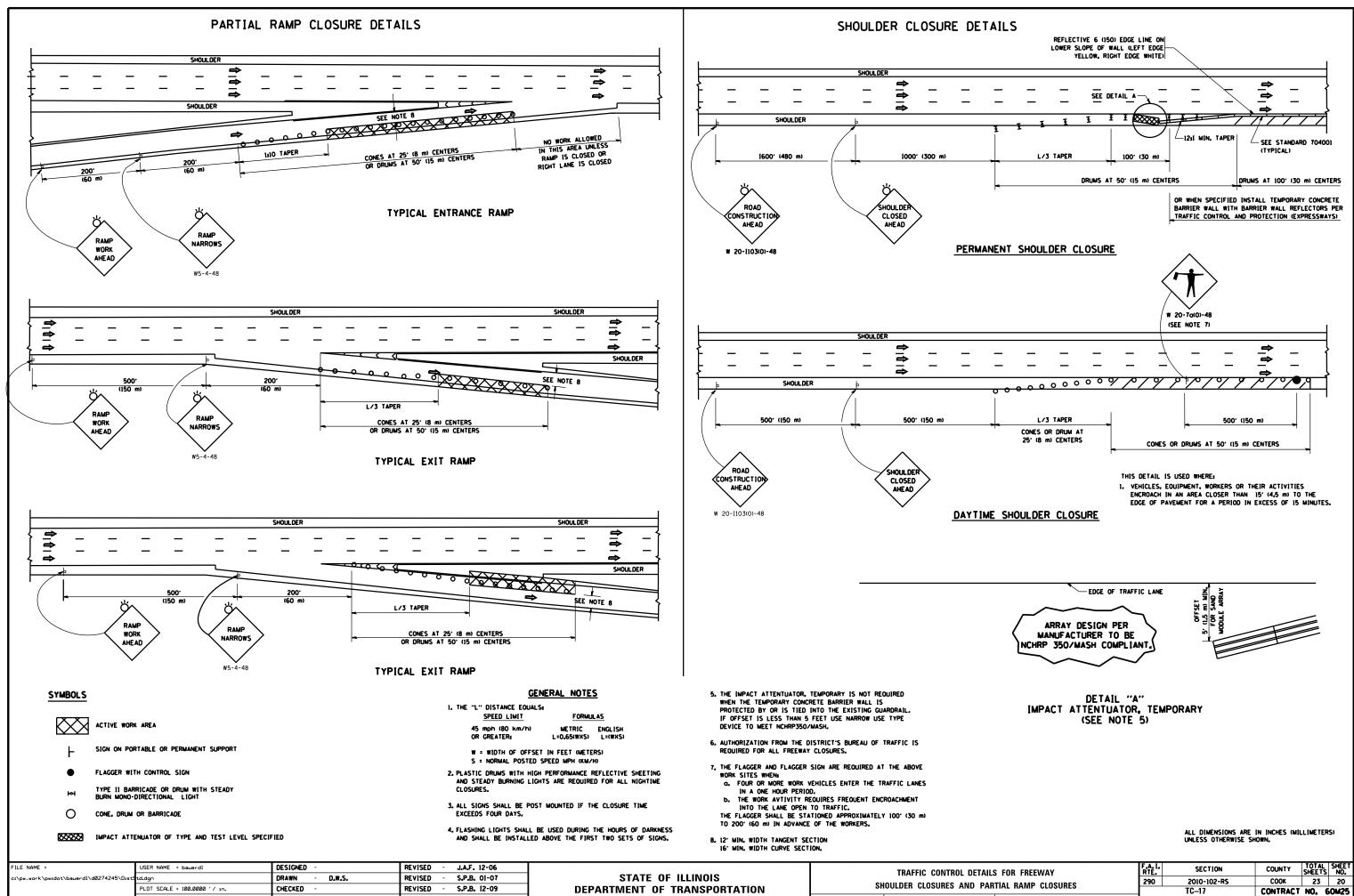
All dimensions are in inches (millimeters) unless otherwise shown,

ONE			F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T MARKINGS		290	2010-102-RS	COOK	23	18	
I MARKINGS				TC-13	CONTRACT	NO, E	50M25
5	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



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

TERS AND SYMBOLS Staging			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
			290	2010-102-RS	COOK	23	19				
31	Adina			TC-16	CONTRACT	NO, E	50M25				
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



PLOT DATE = 5/28/2014

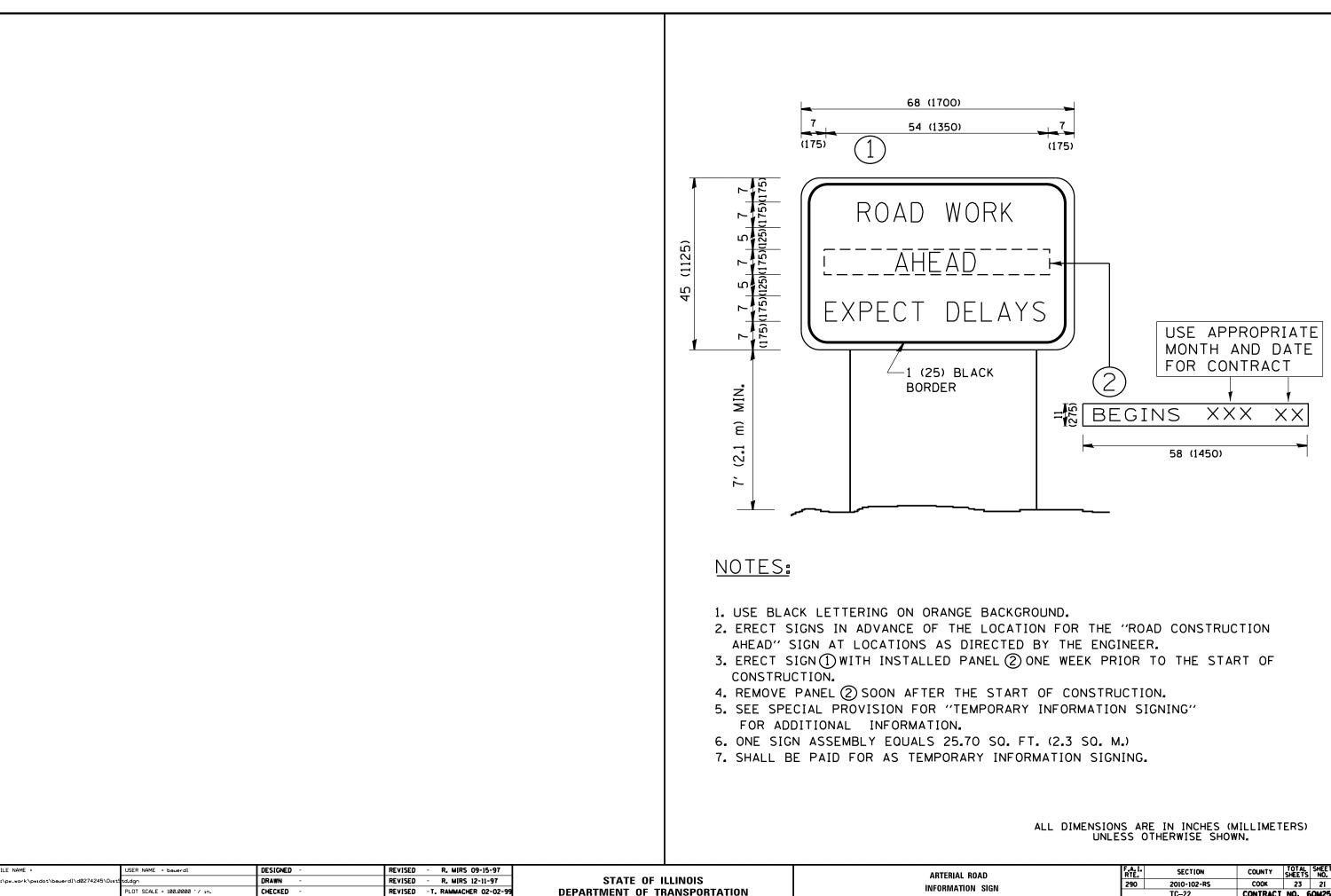
DATE

11-96

REVISED - M.D. 06-13

TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



FILE NAME =

PLOT DATE = 5/28/2014

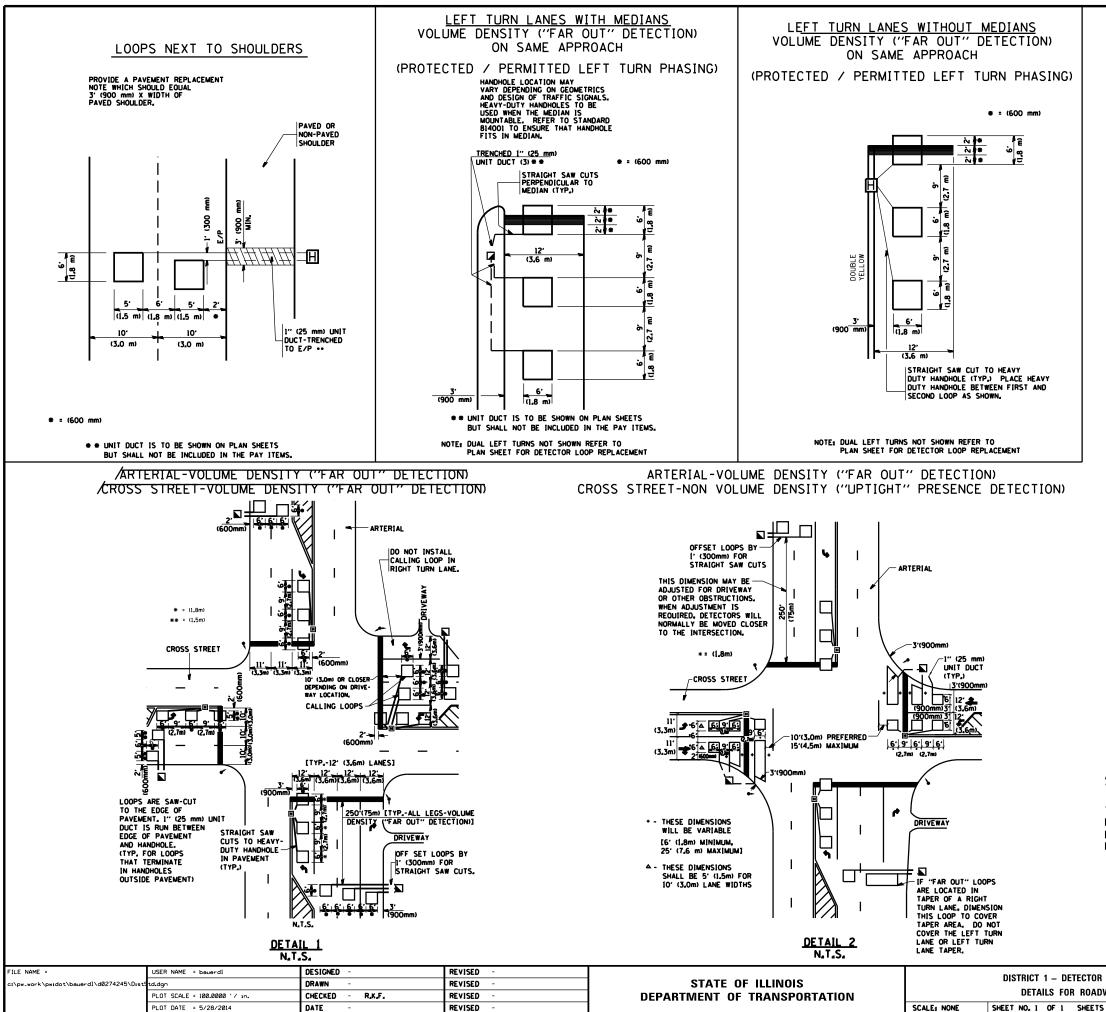
DATE

REVISED - C. JUCIUS 01-31-07

ROAD			F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
N SIGN		290	2010-102-RS	COOK	23	21					
			TC-22	CONTRACT	NO. E	50M25					
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM		REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	\bowtie^{R}	\bowtie		EMERGENCY VEHIC	E LIGHT DETECTOR	R⊲	\triangleleft	•	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		(1)	-0-
RAILROAD CONTROL CABINET				CONFIRMATION BE	ACON	Ro-J	$\sim \Box$	H			\sim	6
COMMUNICATIONS CABINET	CCR	ECC	CC	HANDHOLE		R			COAXIAL CABLE		—(c)—	—©—
MASTER CONTROLLER		EMC	MC								đ	0
MASTER MASTER CONTROLLER	R	ЕММС	MMC	HEAVY DUTY HAND	HOLE	R _H	H	Η	VENDOR CABLE FOR CAMERA		— <u>v</u>	—v
UNINTERRUPTABLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE					COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		— <u>6</u> —	-6-
SERVICE INSTALLATION. (P) POLE OR (G) GROUND MOUNT	-0- ^R	-D- ^P	- # ^P	JUNCTION BOX	DUIT	R		0	FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P T	P	GALVANIZED STEE		R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			245
STEEL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE		<u></u>					,	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH				CT	FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		- <u>3</u> 6F	-369-
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	^R O-¤───	0-¤	• ×	COILABLE NONMET SYSTEM ITEM	ALLIC CONDUIT (EMPTY)		S	CNC S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		^C ıl ⊨ ⊸	ç∎
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZS	 ध्रियम्		INTERSECTION ITE	м		I	IP	OR (S) SERVICE			4
SIGNAL POST	R	0	•	REMOVE ITEM		R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R⊗	\otimes	۵	RELOCATE ITEM		RL						
BETTER) 45 FOOT (13.7m) MINIMUM		\	\sim	ABANDON ITEM		А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	O ^{RMF}		
	R	>-	<u> </u>	12" (300mm) TRAF	FIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD		$\neg $	->	12" (300mm) RED	WITH 8" (200mm) N TRAFFIC SIGNAL FACE		R		FOUNDATION TO BE REMOVED			
NUMBERS INDICATE THE CONSTRUCTION STAGE	_		→ ²	I TELLOW AND UREE	M HAMFFIG SIGNAL FACE		R R	R	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O→X────		
SIGNAL HEAD WITH BACKPLATE	+⊳K	$+ \triangleright$	+>				$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	Y	SIGNAL POST AND FOUNDATION	DDE		
SIGNAL HEAD OPTICALLY PROGRAMMED	-⊳″₽″	— > ‴₽‴	→ *₽**	SIGNAL FACE			C)	G	TO BE REMOVED	RPF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O-₽⊃"F"	O-₽>″F″	• • • ^{*F**}				+ G	G ∢ Y ∢G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			15
PEDESTRIAN SIGNAL HEAD	R -[]	Ч	-1				R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	۲	0	SIGNAL FACE WITH "P" INDICATES PR			(C)	Y G			.—	0
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTO	R @ aps	@aps	@ APS		EFLECTIVE BACKPLATE		€ €	✓ Y✓ G	OUEUE DETECTOR		LQJ	
ILLUMINATED SIGN	R						"P"	"P"	PREFORMED QUEUE DETECTOR		Į POj	PO
"NO LEFT TURN"		${\mathfrak O}$	$\textcircled{\textbf{S}}$		STRIAN SIGNAL HEAD				PREFORMED INTERSECTION AND SAMPLING		۲IS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R	\bigcirc		WALK/DON'T WALK	SYMBOL STRIAN SIGNAL HEAD							
DETECTOR LOOP, TYPE I	<u>v</u>			INTERNATIONAL ST					PREFORMED SAMPLING (SYSTEM) DETECTOR		ĴPSj	PS
					STRIAN SIGNAL HEAD			₽ ≮		CANDO	n c	
PREFORMED DETECTOR LOOP		۲ – ۲ ۱ – ۲ ۱ – ۲	P	INTERNATIONAL SY	MBOL, SOLID				RAILROAD	91 INIR (119	
MICROWAVE VEHICLE SENSOR	R		Ø	PEDESTRIAN SIGNA SYMBOL, WITH COL	L HEAD, INTERNATIONAL JNTDOWN TIMER		C C	₽C ⊀D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R		Ø	RADIO INTERCONN	CT			- ●	RAILROAD CONTROL CABINET			
VIDEO DETECTION ZONE						1.	1.		RAILROAD CANTILEVER MAST ARM	Σ	Xoz z X	XEE
	Ŗ			RADIO REPEATER		RERR	ERR	RR	FLASHING SIGNAL	_	Xox	X o X
PAN, TILT, ZOOM CAMERA	PTZ)	PTZD	PD	CABLE NO. 14, UN	OF CONDUCTORS, ELECTRIC ESS NOTED OTHERWISE,		-5-	-6-	CROSSING GATE		<u>ו×</u> >	XOX
WIRELESS DETECTOR SENSOR	RW		W		OP CABLE TO BE SHIELDED							
WIRELESS ACCESS POINT	R			GROUND CABLE IN NO. 6 SOLID COPF			— – <u>–</u> – –	— ()— ·	CROSSBUCK		¥	¥
FILE NAME = USER NAME = bouerdl		DESIGNED - DAG/BCK	REVISED -	DAG 1-1-14	07475		<u> </u>		I DISTRICT ONE	F.A. I. RTE.	SECTION	COUNTY TOTAL SHEETS
c:\pw_work\pwidot\bauerd1\d0274245\DistStd.dgn PLOT SCALE = 100.0000) '/ in.	DRAWN - BCK CHECKED - DAD	REVISED - REVISED -		STATE DEPARTMENT C	OF ILLINOIS OF TRANSPO			STANDARD TRAFFIC SIGNAL DESIGN DETAILS	290	2010-102-RS TS-05	COOK 23
PLOT DATE = 5/28/20		DATE - 10-28-09	REVISED -					SCALE: NO	NE SHEET NO. 1 OF 7 SHEETS STA. TO STA.	FED. ROA	D DIST, NO, 1 ILLINOIS FE	



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.

L	LOOP INSTALLATION			SECTION	COUNTY	TOTAL Sheets	SHEET NO.						
		290	2010-102-RS	COOK	23	23							
WAY RESURFACING				TS07	CONTRACT	NO. (60M25						
5	STA.	TO STA.	FED. RC	FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT									