04-28-2017 LETTING ITEM 177
FOR INDEX OF SHEETS SEE SHEET 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

1556 16-00168-00-RS DUPAGE/WILL 31 1 CONTRACT NO. 61D76

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 1556 (87th ST)
IL ROUTE 59 TO BOOK RD
RESURFACING
SECTION 16-00168-00-RS
PROJECT NO. M-4003(853)
CITY OF NAPERVILLE
DUPAGE & WILL COUNTY
JOB NO: C-91-131-17

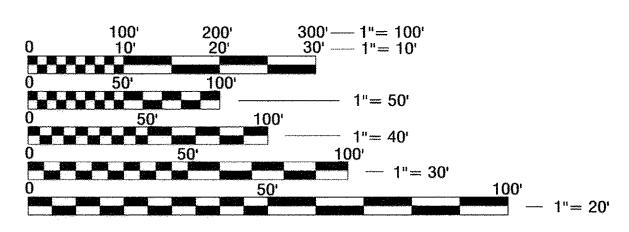
TRAFFIC DATA

2009 ADT = 9,400 2040 ADT = 10,200 POSTED SPEED LIMIT = 40 MPH DESIGN DESIGNATION: MINOR ARTERIAL

PROJECT BEGINS STATION 3+65

R 9 E 3RD P.M.

PROJECT ENDS STATION 63+97



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

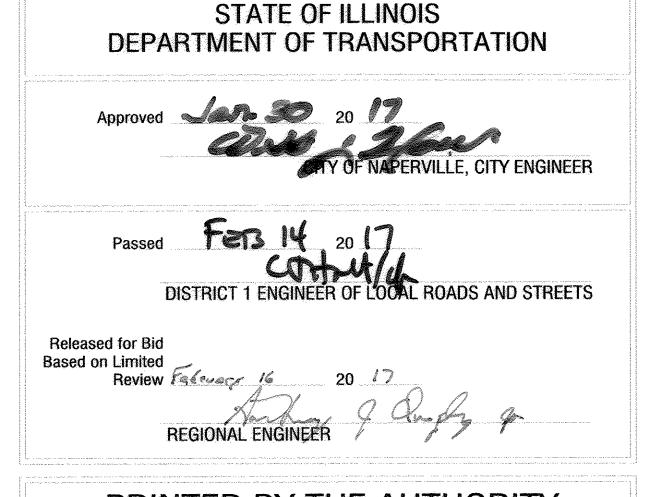
CONTRACT NO. 61D76

LOCATION MAP NOT TO SCALE

GROSS AND NET LENGTH = 6,032 FT (1.14 MILES)



///30/2017 DATE: 1/30/17



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PLANS PREPARED BY:

LOCATION OF SECTION INDICATED THUS



400 South Eagle Street Naperville, IL 60540 630-420-6100

GENERAL NOTES

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS:

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016. (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2017; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS; THE "DETAILS" ON THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

PROJECT COORDINATION:

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. ATTENTION IS CALLED TO SECTION 701 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION. THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE RIGHT-OF-WAY SHALL REQUIRE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

PERMITTING:

THE CONTRACTOR MUST OBTAIN ALL APPLICABLE PERMITS FOR THE COMPLETION OF THE WORK, INCLUDING FROM THE CITY OF NAPERVILLE.

SAFETY:

PER ARTICLE 701.12 OF THE STANDARD SPECIFICATIONS, ALL CONSTRUCTION PERSONNEL SHALL BE REQUIRED TO WEAR FLUORESCENT SAFETY VESTS OF THE SPECIFIED COLOR/S AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.

TRAFFIC CONTROL AND MAINTENANCE:

THE CONTRACTOR SHALL STAGE THE WORK SO THAT ONE LANE OF TRAFFIC IN EACH DIRECTION IS MAINTAINED AT ALL TIMES. IN THE EVENT A TEMPORARY LANE CLOSURE IS REQUIRED, THE CONTRACTOR SHALL UTILIZE IDOT STANDARD 701601. A LANE CLOSURE WILL ONLY BE PERMITTED DURING CONSTRUCTION OPERATIONS AND IN ACCORDANCE WITH THE APPLICABLE IDOT STANDARD. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL SIGNS, BARRICADES, AND OTHER TRAFFIC CONTROL DEVICES INCLUDING FLAGGERS REQUIRED TO MAINTAIN TRAFFIC FLOW. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT NO HOLES IN THE PAVEMENT, AS DETERMINED BY THE ENGINEER, REMAIN OPEN OVER NIGHT.

ACCESS TO ABUTTING PROPERTY SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT.

TIME REQUIRED FOR CONSTRUCTION AT DRIVEWAYS SHALL BE LIMITED TO THE MINIMUM TIME REQUIRED FOR SAID
CONSTRUCTION AND, IF REQUIRED, TEMPORARY AGGREGATE SURFACE FOR DRIVEWAY ACCESS SHALL BE
PROVIDED.

UTILITY COORDINATION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH ALL UTILITIES PER ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS.

PAVEMENT STRIPING:

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

SAW CUTTING FOR REMOVAL:

THE CONTRACTOR SHALL BE REQUIRED TO MAKE A FULL DEPTH SAW CUT AT THE EDGE OF PAVEMENT ADJACENT TO THE REMOVAL OF ALL CONCRETE CURB OR COMBINATION CONCRETE CURB AND GUTTER. THE CONTRACTOR SHALL MAKE FULL DEPTH SAW CUTS FOR THE REMOVAL OF ALL CONCRETE CURB AND GUTTERS, SIDEWALKS, AND DRIVEWAYS AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER.

BASE COURSE CLEANING:

PRIOR TO APPLYING THE BITUMINOUS TACK COAT, THE BASE SURFACE INCLUDING GUTTERS SHALL BE CLEANED OF LOOSE GRINDINGS, LEAVES, OF ALL DUST, DIRT, WEEDS, AND OTHER FOREIGN MATERIALS. ALL CRACK FILL MATERIAL SHALL BE REMOVED IN ITS ENTIRETY ALONG THE CURB LINE.

CLEAN-UP AND DISPOSAL:

THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND ANY SURPLUS MATERIAL SHALL BE REMOVED AND RESTORATION SHALL PROCEED AS THE WORK PROCEEDS. IF THE ENGINEER SO DIRECTS, THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN—UP AND RESTORATION. DEBRIS AND SURPLUS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED OFF—SITE DISPOSAL AREA.

CONSTRUCTION LIMITS:

THE CONTRACTOR SHALL CONFINE OPERATIONS WITHIN THE DEDICATED ROADWAY RIGHTS-OF-WAY. ANY DAMAGE OUTSIDE OF THE LIMITS OF OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

LANDSCAPING RESTORATION:

ALL LANDSCAPING DAMAGED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 4" OF PULVERIZED TOP SOIL, SODDING, AND FERTILIZER NUTRIENTS.

PUBLIC UTILITY LOCATIONS:

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC UTILITIES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL FOLLOW SECTION 107.39 OF THE STANDARD SPECIFICATIONS.

REMOVAL OF EXISTING PAVEMENT AND APPURTENANCES:

WHEN PORTIONS OF EXISTING PAVEMENTS OR APPURTENANCES ARE TO REMAIN IN PLACE, OR ADJACENT EXISTING PAVEMENTS OR APPURTENANCES ARE TO REMAIN IN PLACE, THE CONTRACTOR SHALL FORM A PERPENDICULAR STRAIGHT JOINT BY FULL—DEPTH MACHINE SAWING AT THE ENDS AND ALL EDGES OF PORTIONS TO BE REMOVED TO PREVENT SURFACE SPALLING. IF DAMAGED, THE EXISTING PAVEMENT OR APPURTENANCE TO REMAIN IN PLACE SHALL BE REPAIRED OR REMOVED AND REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, AS DIRECTED BY THE ENGINEER.

PHASE 3 CONSTRUCTION ENGINEERING

PHASE 3 CONSTRUCTION ENGINEERING WILL BE PERFORMED BY THE CITY OF NAPERVILLE OR DESIGNEE.

INDEX OF SHEETS

STANDARD NO.	DESCRIPTION						
1	COVER SHEET						
2	GENERAL NOTES & STANDARDS						
3-4	SUMMARY OF QUANTITIES						
5-6	TYPICAL SECTIONS						
7-11	PROPOSED ROADWAY PLANS						
12-14	PAVEMENT MARKING PLAN						
15	DETECTOR LOOP REPLACEMENT						
16-31	DISTRICT 1 STANDARD DETAILS						
	IDOT STANDARD DETAILS						

DISTRICT 1 STANDARD DETAILS

STANDARD NO.	DESCRIPTION
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT SECTIONS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

IDOT STANDARD DETAILS

STANDARD	DESCRIPTION
NO.	
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-03	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
424031-01	MEDIAN PEDESTRIAN CROSSING
442201-03	CLASS C AND D PATCHES
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM EDGE OF PAVEMENT
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <= 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701–10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
780001–05	TYPICAL PAVEMENT MARKINGS

	DESIGNED		МСР	REVISED	
	DRAWN		MCP	REVISED	
	CHECKED		YL	REVISED	-
	DATE	_	1/27/2017	REVISED	-

SCALE: N.T.S.

	an goodhaan waxaa ahaa ahaa ahaa ahaa ahaa ahaa aha					CONSTR. CODE		
SPECIALTY		CODE			TOTAL	ROADWAY 0005		
ITEM	S.P.	NO.	ITEM	UNIT	QUANTITY	URBAN		
MACCON STREET,								
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1700	1700		
						· · · · · · · · · · · · · · · · · · ·		
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	21	21		
		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	21	21		
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	21	21		
		25200110	SODDING, SALT TOLERANT	SQ YD	1700	1700		
		Minimativa industrial and the second						
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	27800	27800		
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	60	. 60		
		40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1750	1750		
	and the special section of the special sectin	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	460	460		
		40600990	TEMPORARY RAMP	SQ YD	850	850		
		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	4660	4660		
						,		
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2900	2900		
		40,400000	DETECTA BLE MANDAUNICO	80 FT	220	220		
		42400800	DETECTABLE WARNINGS	SQ FT	320	320		
		44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	41300	41300		
		44000000	SIDEWALK DEMOVAL	SO ET	2900	2900		
		44000600	SIDEWALK REMOVAL	SQ FT	2900	2900		

						CONSTR. COD
SPECIALTY ITEM	S.P.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005 URBAN
11 - 171	V.I.					
		44201690	CLASS D PATCHES, TYPE I, 4 INCH	SQ YD	25	25
		44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	50	50
				00.70	400	400
		44201694	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	100	100
		44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	200	200
		44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	25	25
		44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	50	50
		1.2017.00				
		44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	100	100
		44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	200	200
		67100100	MOBILIZATION	LSUM	1	1
		70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	1
4-4-4						
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
		70106800	CHANGEABLE MESSAGE SIGN	-CAL-MO	6	6
		70200400	CHODT TEDM DAV/EMENT MADIZING	FOOT	2500	2500
		70300100	SHORT TERM PAVEMENT MARKING		2300	2500
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	700	700

	DESIGNED		МСР	REVISED -
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	DATE	_	1/27/2017	REVISED -

SCALE: N.T.S.

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SUMMARY OF QUA	ANTITIES	1556	16-00168-00-RS	DUPAGE/WILL	31	3		
						CONTRACT	T NO. 6	1D76
SHEET NO. 1 OF 2 SHEETS	STA	TO STA.	-	FED. RO	AD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

CONSTR. CODE

						CONSTR. CODE
ODEOLL						ROADWAY
SPECIALTY		CODE			TOTAL	0005
ITEM	S.P.	NO.	ITEM	UNIT	QUANTITY	URBAN
·		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	620	620
					*	
	h	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1340	1340
	., .					
		70200240		FOOT	2000	2600
		70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2600	2600
		70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	200	200
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	200	200
*		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	620	620
rasyyanyyaro dalaranga dalahirin kenyalangan dalam sahiri mendappan darapi oryanya pelangan menendi						
		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13400	13400
*		78000200	THE NOTE AS TO PAVEINENT MAINING - LINE 4	1001	13-400	10400
	······································			,		
*		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2600	2600
*		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	200	200
*		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	200	200
	enantaian estimbos de raside					***************************************
.l.		99600600	DETECTOR LOOP REDLACEMENT	FOOT	530	530
*		88600600	DETECTOR LOOP REPLACEMENT	1 1001	550	J30
	*	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1	1
, see and see a second	*	X4400220	CURB REMOVAL AND REPLACEMENT	FOOT	6400	6400
	······					
	*	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	2	2
		V702000F	TEMPODADY DAVENENT MADVING DEMOVAL	eo et	3000	2000
		X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	2000	
		x7015005	GHANGEABLE MESSAGE SIGN	CAL DA	140	140
	*	Z0017500	DRAINAGE & UTILITY STRUCTURE ADJUSTMENT (SPECIAL)	EACH	47	47

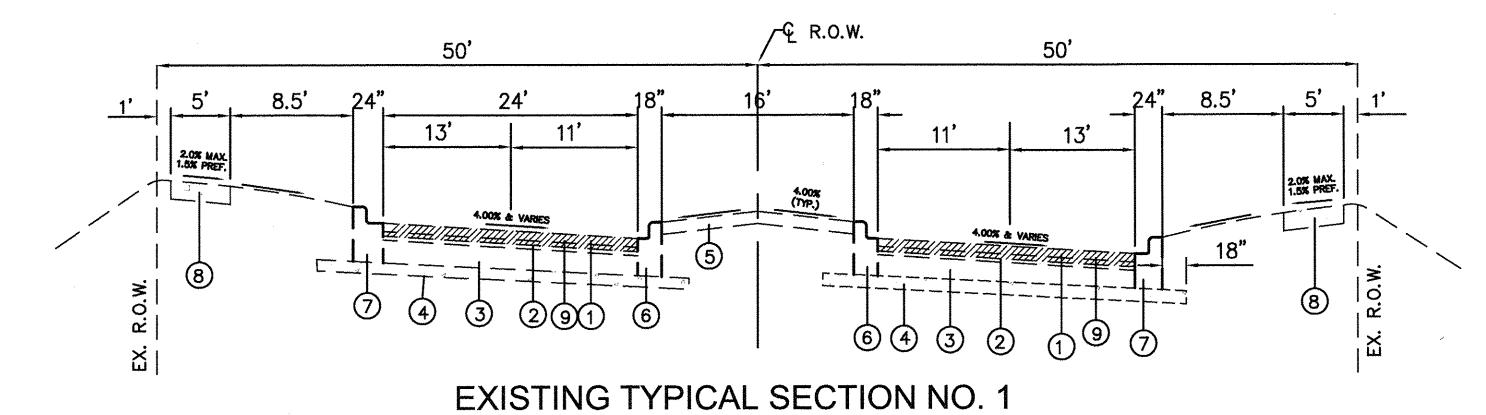
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	DATE	_	1/27/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

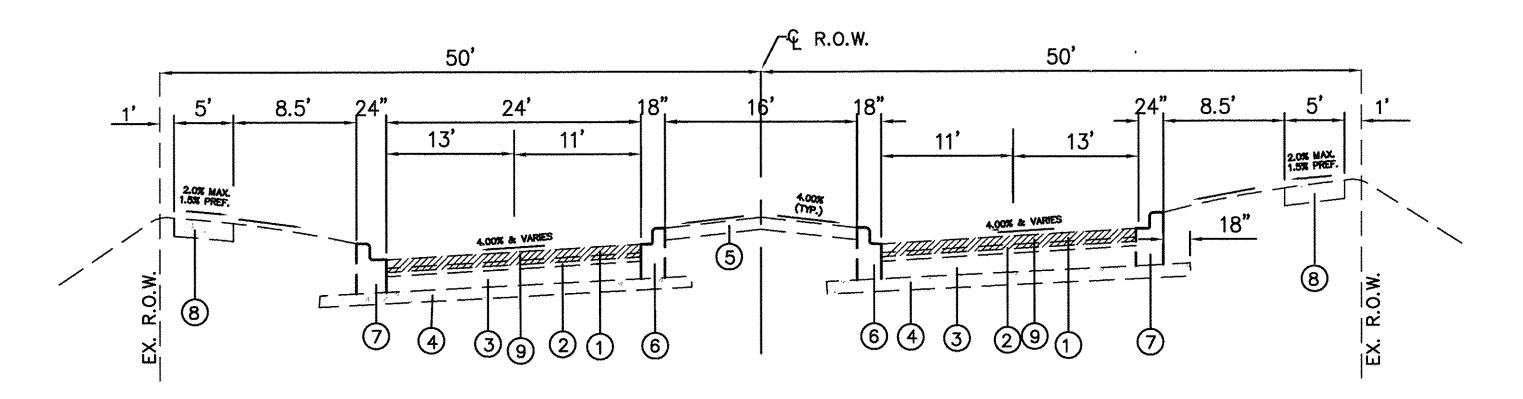
					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SUMMARY OF QU	1556	16-00168-00-RS	DUPAGE	31	4			
							CONTRAC	CT NO. 6	1D76
SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS	STA	TO STA.	-	FED. ROA	D DIST. NO. 1 ILUNOIS FED. A	ND PROJECT		

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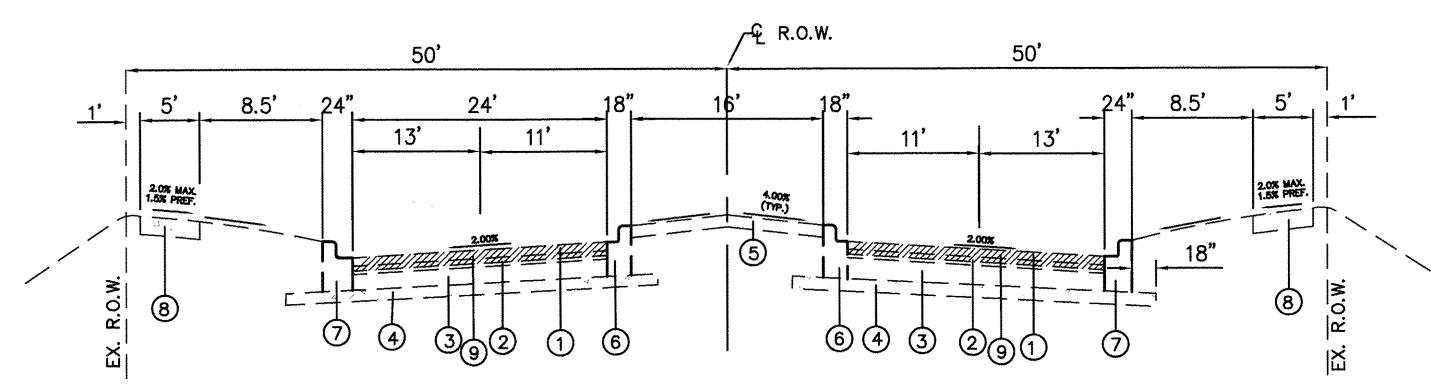


87TH STREET STA. 58+47 TO STA. 63+44, STA. 4+25 TO STA. 13+50



EXISTING TYPICAL SECTION NO. 2

87TH STREET STA. 44+46 TO STA. 52+37 STA. 16+50 TO STA. 26+31



EXISTING TYPICAL SECTION NO. 3

87TH STREET STA. 52+37 TO STA. 58+47 STA. 26+31 TO STA. 44+46 STA. 13+50 to STA.16+50 STA. 2+55 TO 4+25

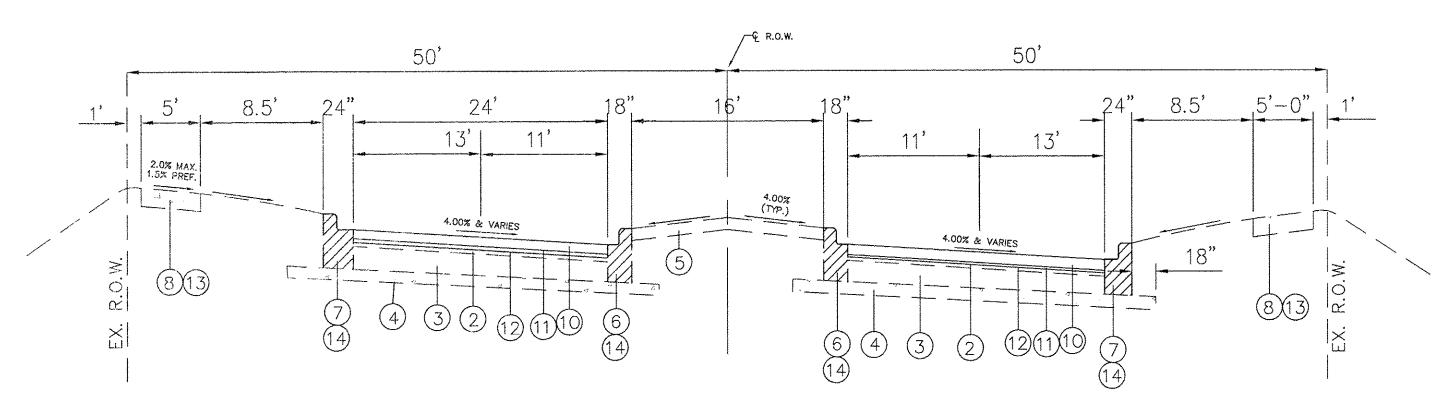
LEGEND

- 1. EXISTING BITUMINOUS CONC. SURFACE COURSE, 1-1/2"
- 2. EXISTING BITUMINOUS CONC. BINDER COURSE, 2-1/2"
- 3. EXISTING BITUMINOUS AGGREGATE MATERIAL, 11"
- 4. EXISTING SUBBASE GRANULAR MATERIAL, 4"
- 5. EXISTING GRASS MEDIAN
- 6. EXISTING CONC. CURB & GUTTER, TYPE B-6.12
- 7. EXISTING CONC. CURB & GUTTER, TYPE B-6.18
- 8. EXISTING SIDEWALK
- 9. PROPOSED HMA SURFACE REMOVAL, 2-3/4"



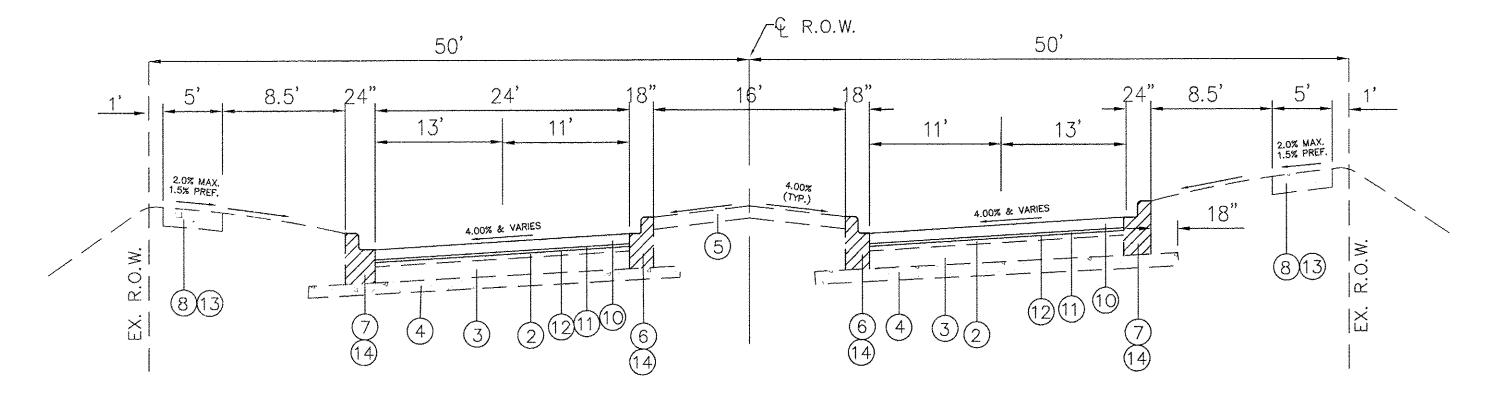
REMOVAL

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	DATE	-	1/27/2017	REVISED	



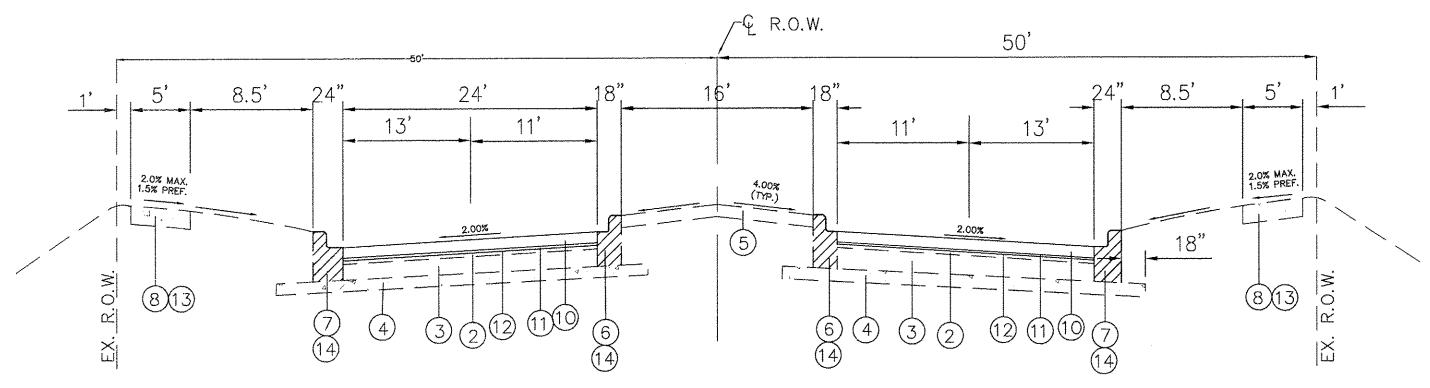
PROPOSED TYPICAL SECTION NO. 1

87TH STREET STA. 58+47 TO STA. 63+44 STA. 4+25 TO STA. 13+50



PROPOSED TYPICAL SECTION NO. 2

87TH STREET STA. 44+46 TO STA. 52+37 STA. 16+50 TO STA. 26+31



PROPOSED TYPICAL SECTION NO. 3

87TH STREET STA. 52+37 TO STA. 58+47 STA. 26+31 TO STA. 44+46 STA. 13+50 to STA.16+50 STA. 2+55 TO 4+25

LEGEND

- 2. EXISTING BITUMINOUS CONC. BINDER COURSE
- EXISTING BITUMINOUS AGGREGATE MATERIAL, 11"
- EXISTING SUBBASE GRANULAR MATERIAL, 4"
- EXISTING GRASS MEDIAN
- EXISTING CONC. CURB & GUTTER, TYPE B-6.12
- EXISTING CONC. CURB & GUTTER, TYPE B-6.18
- EXISTING SIDEWALK
- 10. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- 11. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 12. PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- 13. SIDEWALK REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)
- 14. CURB AND GUTTER REMOVAL AND REPLACEMENT (~30% TO BE REMOVED AND REPLACED, AS DIRECTED BY THE ENGINEER)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE

AIR VOIDS

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, (3/4")	3.5% @ 50 Gyr.
CLASS D PATCHES 4" AND 12" (AS SPECIFIED) (HMA BINDER IL-19 mm)	4% @ 70 Gyr.

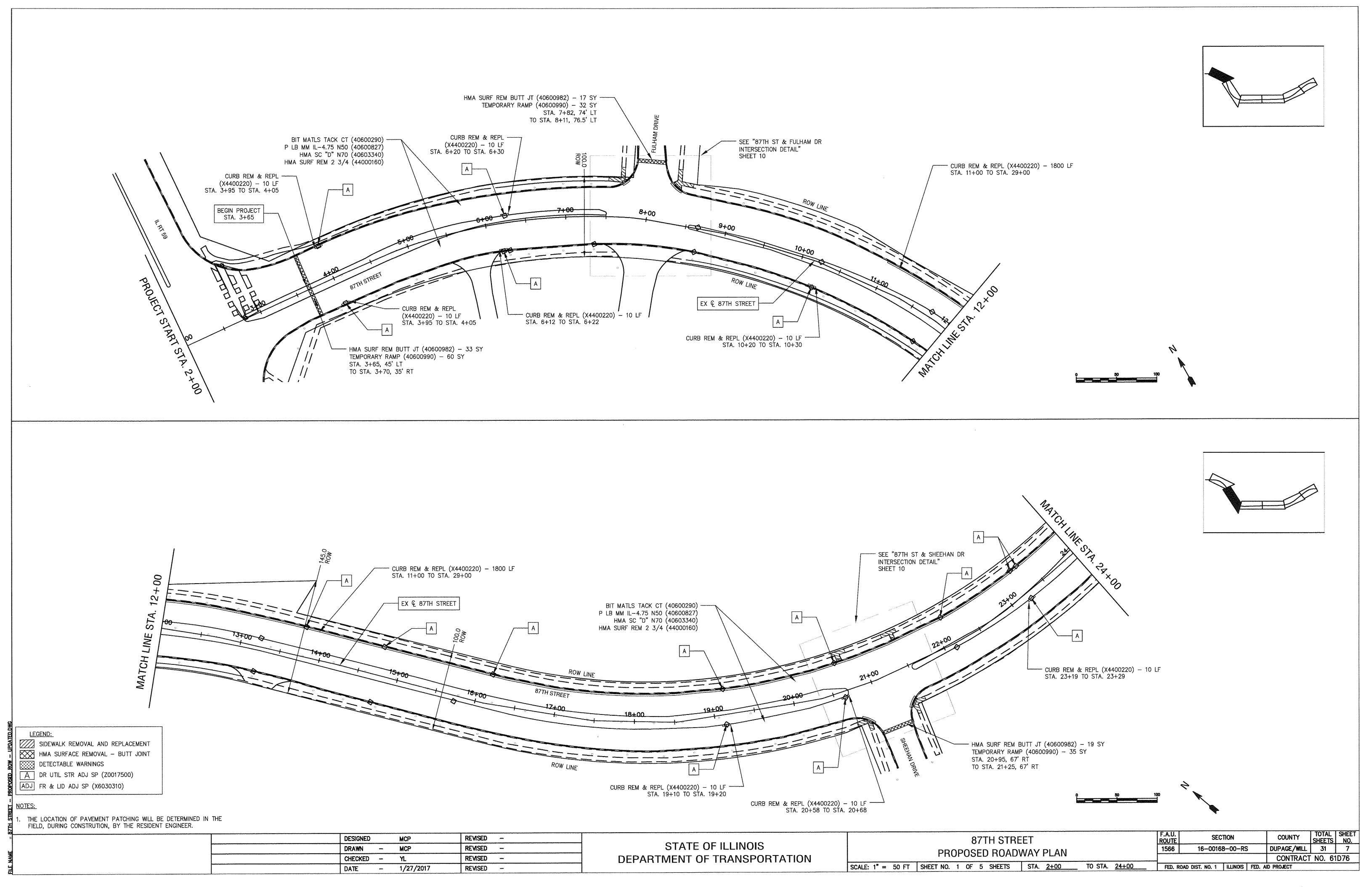
- 1. THE UNIT WEIGHT USED TO CALCULATE HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
- 2. FOR "PERCENT OF RAP AND RAS" SEE DISTRICT ONE SPECIAL PROVISIONS.
- 3. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS-SBR76-22" AND FOR NON-POLYMERIZED HMA THE AC TYPE SHALL BE "PG-64-22" UNLESS MODIFIED BY DISTRICT 1 SPECIAL PROVISIONS.

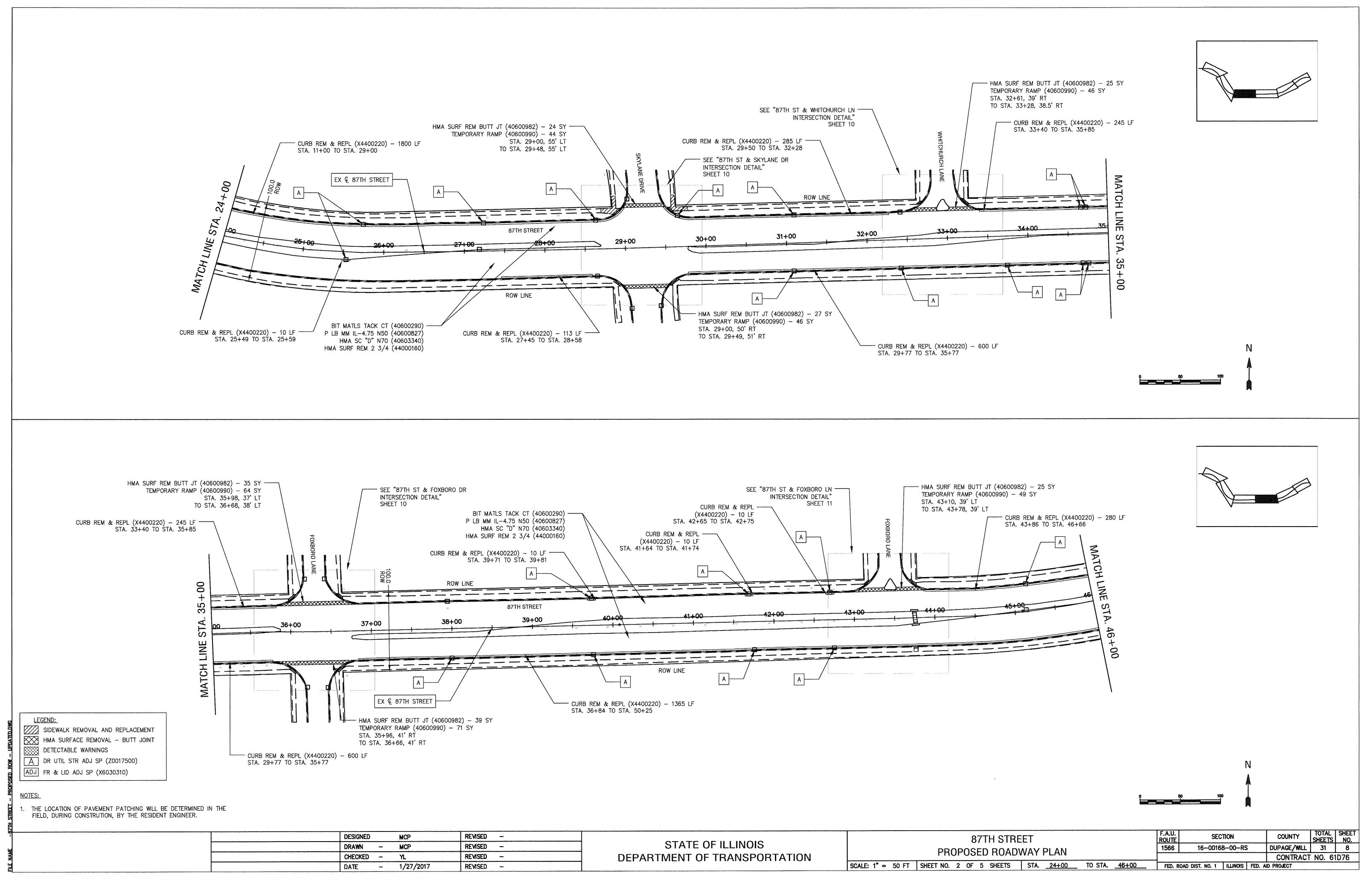
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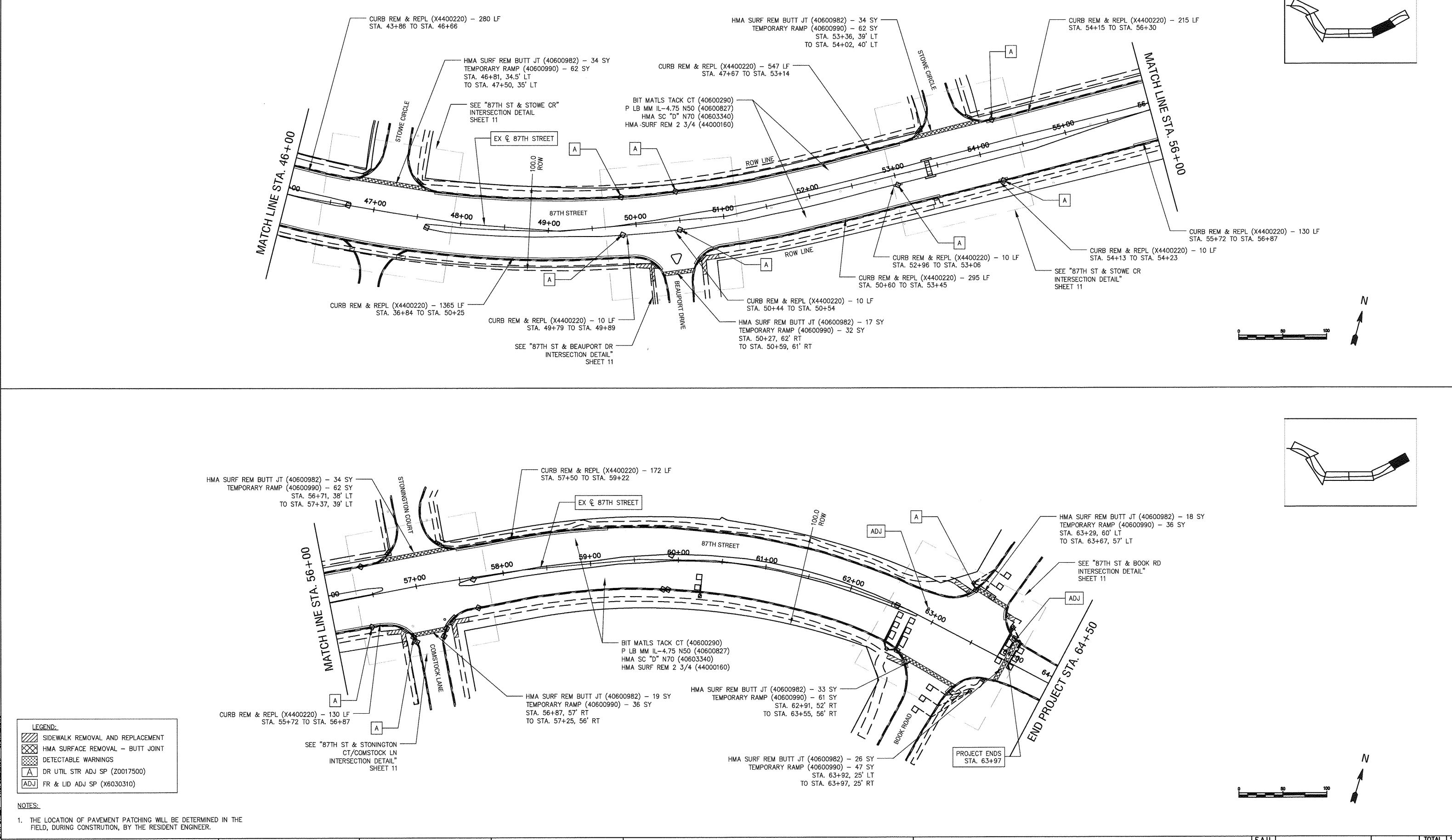
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

87TH STREET TYPICAL SECTIONS

COUNTY TOTAL SHEET SHEETS NO. F.A.U. ROUTE DUPAGE/WILL 31 6 16-00168-00-RS CONTRACT NO. 61D76







STREET - PROPOSED ROW - UPD

 DESIGNED
 MCP
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 DATE
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 1/27/2017
 REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

87TH STREET
PROPOSED ROADWAY PLAN

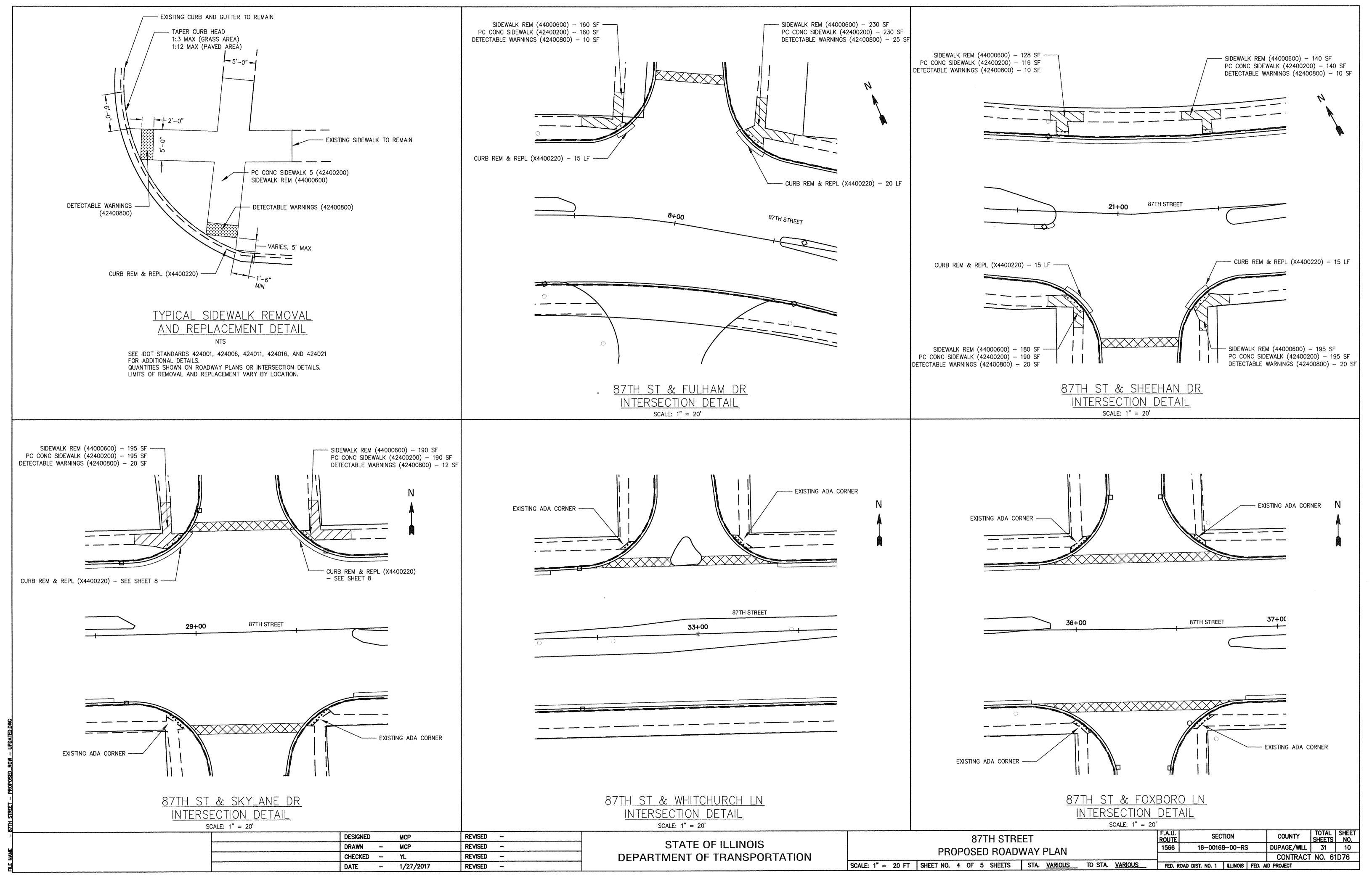
SCALE: 1" = 50 FT | SHEET NO. 3 OF 5 SHEETS | STA. 46+00 TO STA. 64+50

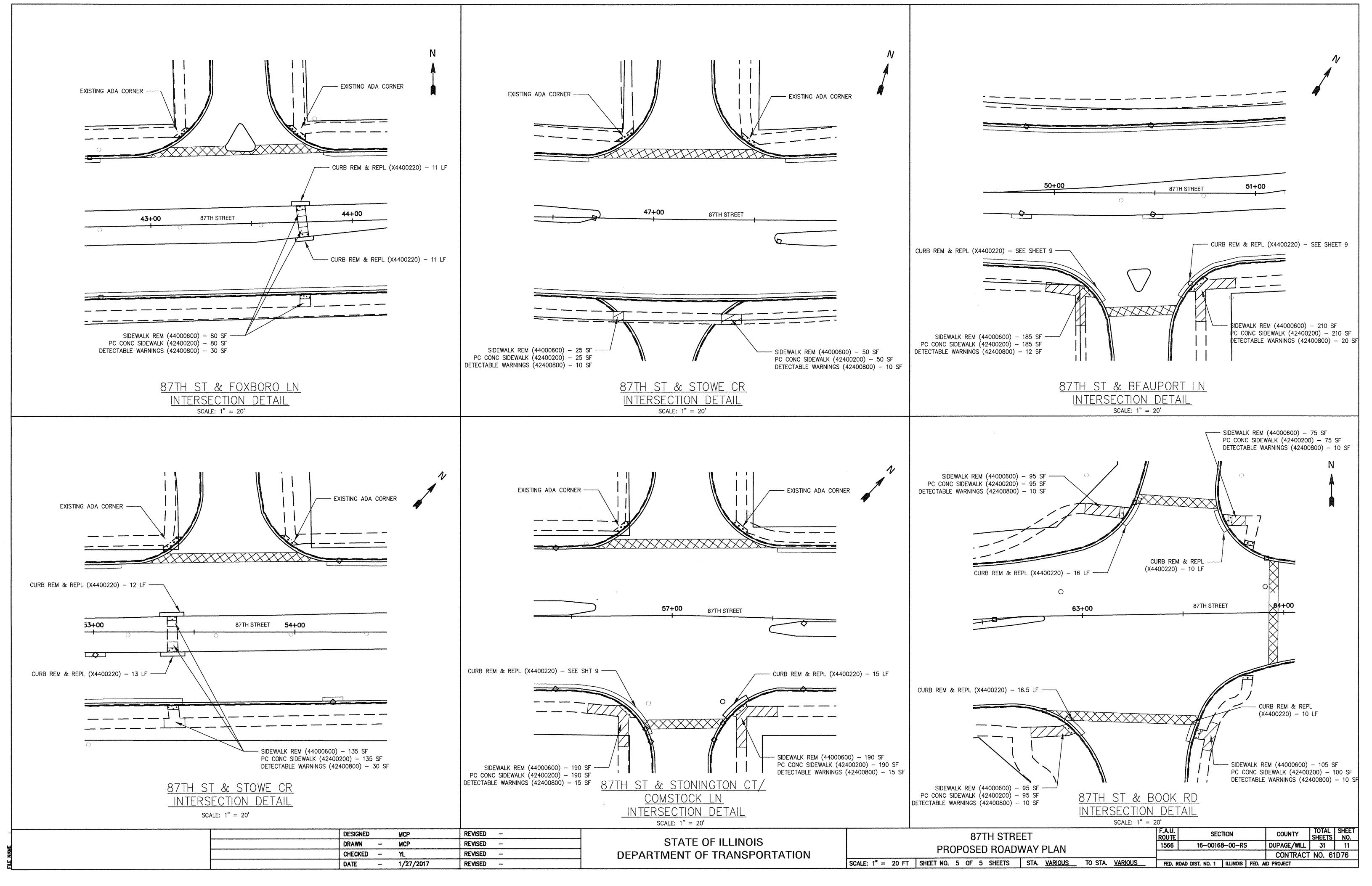
F.A.U. ROUTE SECTION COUNTY TOTAL SHEET NO.

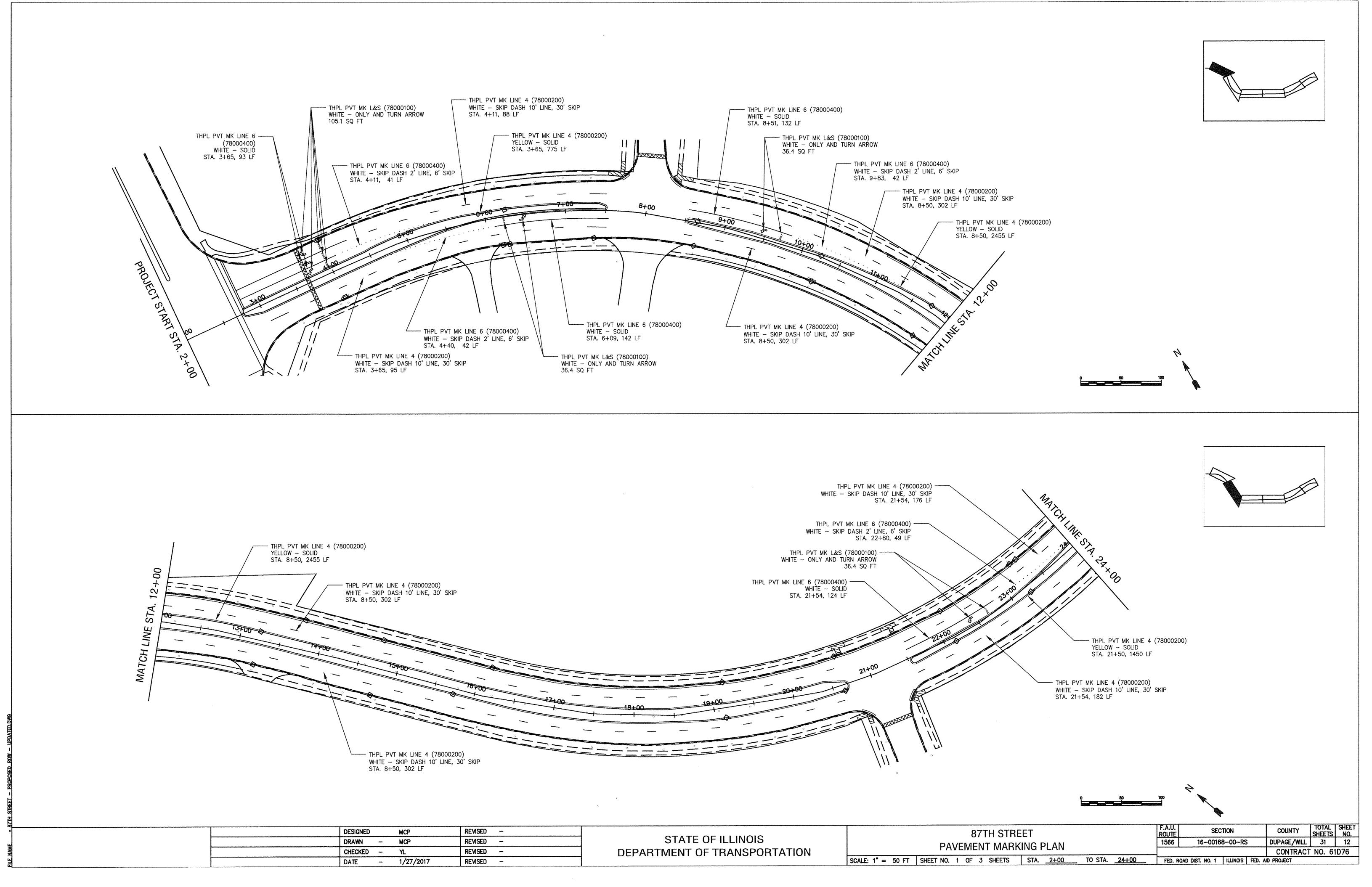
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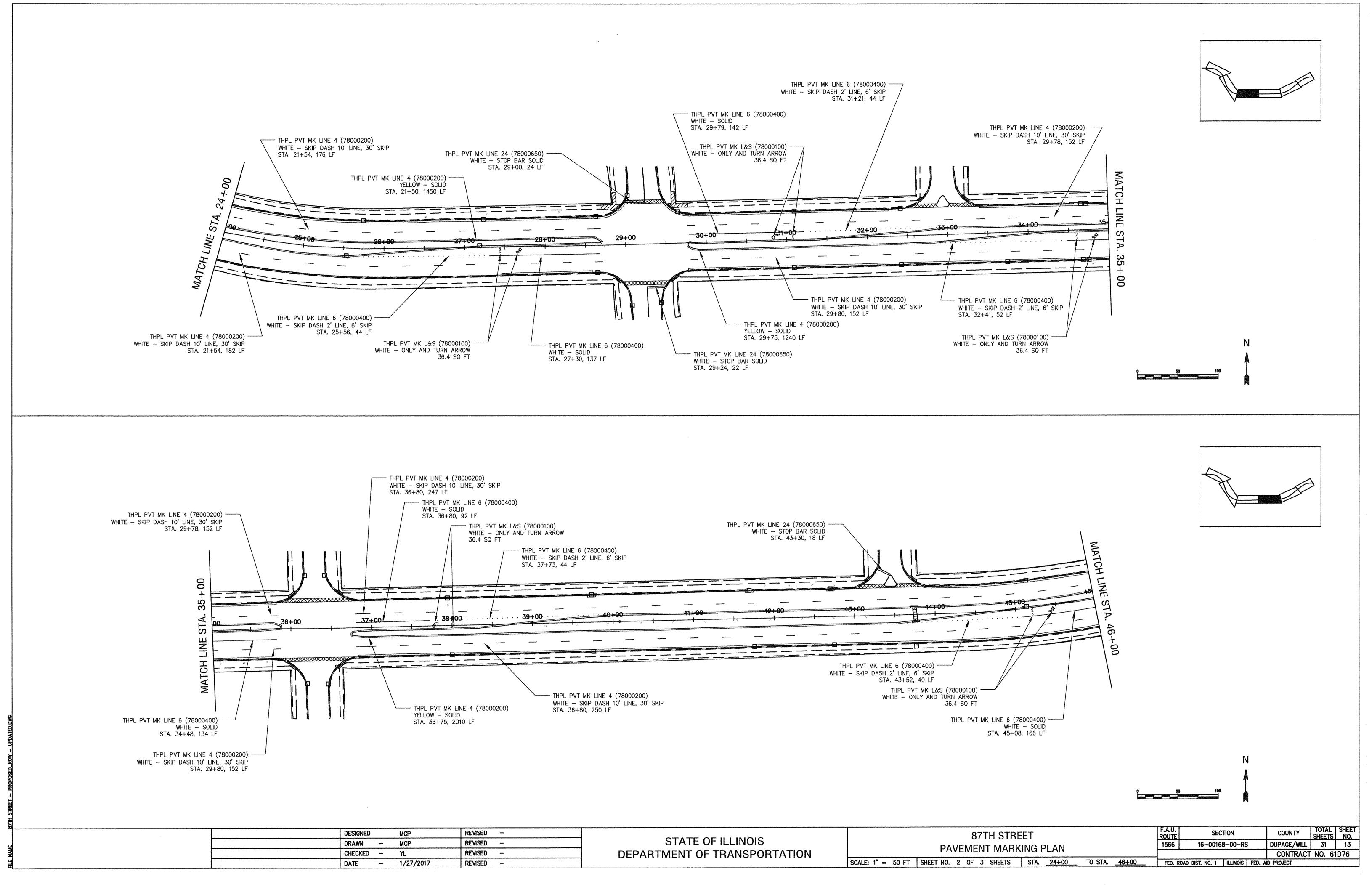
CONTRACT NO. 61D76

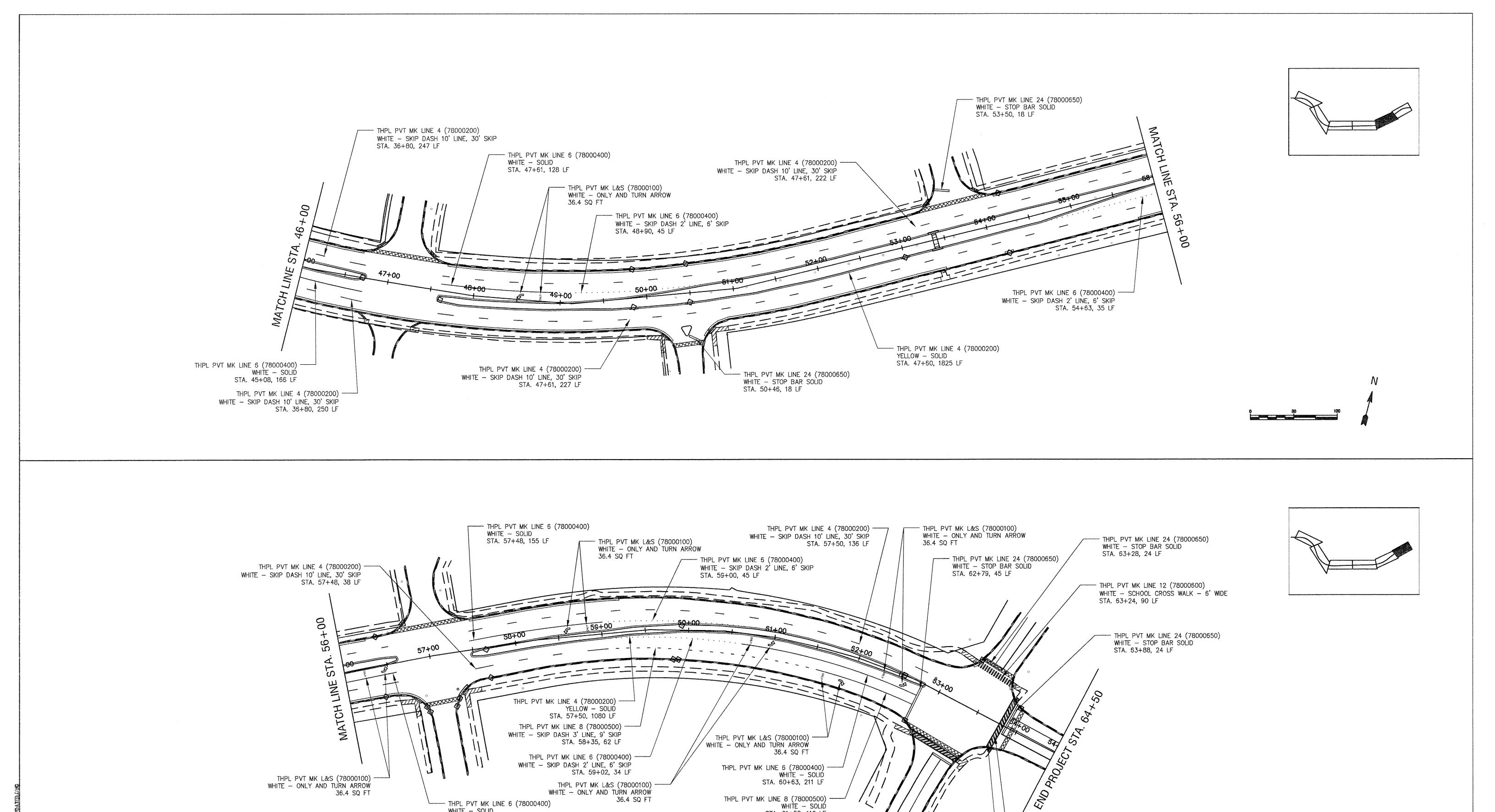
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

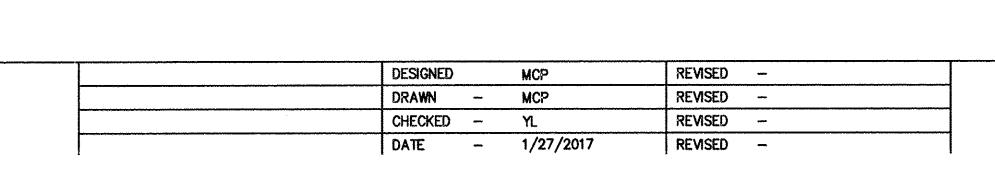












- THPL PVT MK LINE 6 (78000400)

WHITE - SOLID STA. 56+00, 59 LF

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STA. 61+58, 116 LF

87TH STREET PAVEMENT MARKING PLAN SCALE: 1" = 50 FT SHEET NO. 3 OF 3 SHEETS STA. 46+00 TO STA. 64+50

THPL PVT MK LINE 12 (78000600)

— THPL PVT MK LINE 6 (78000400)

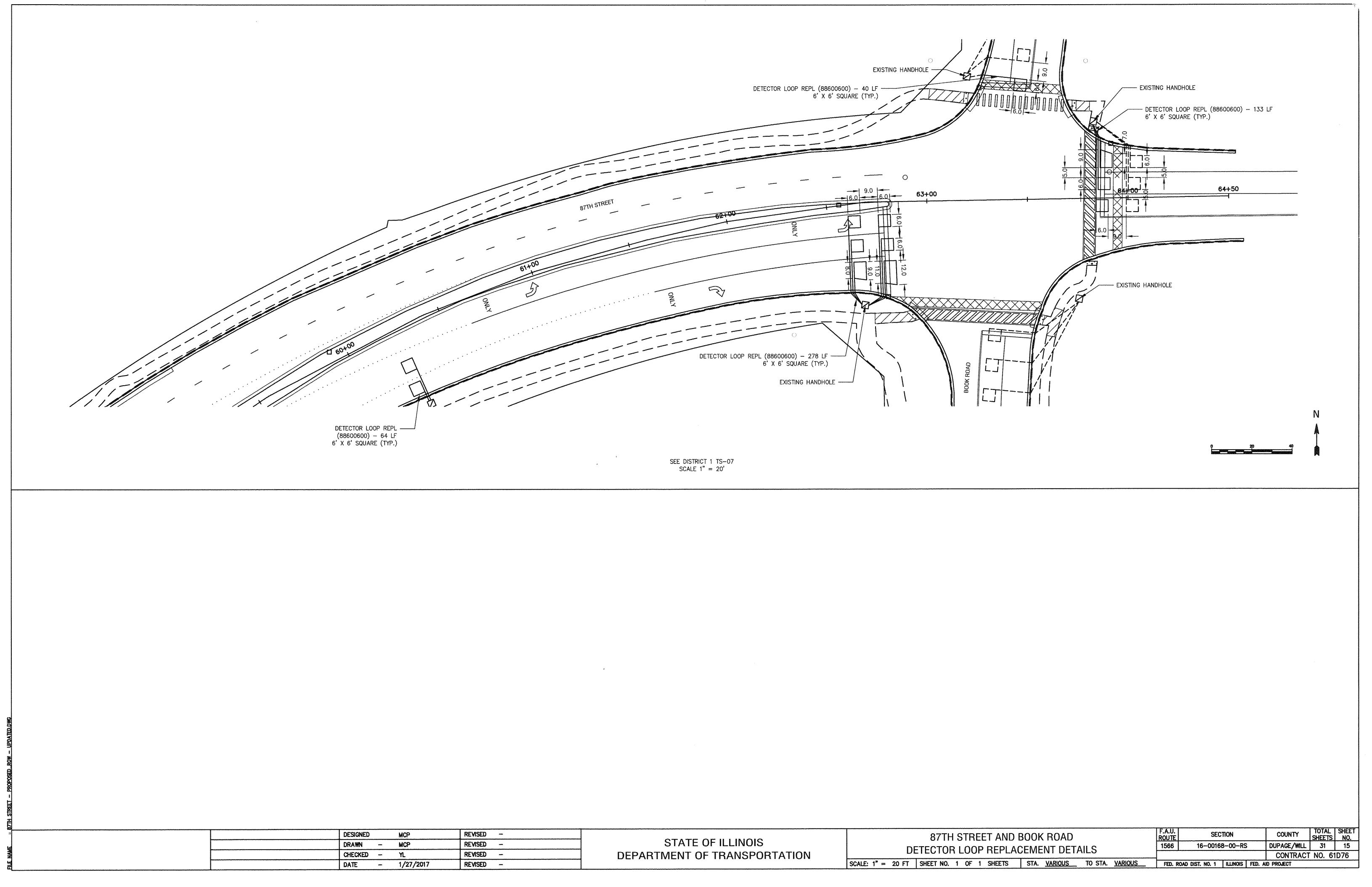
STA. 63+78, 100 LF

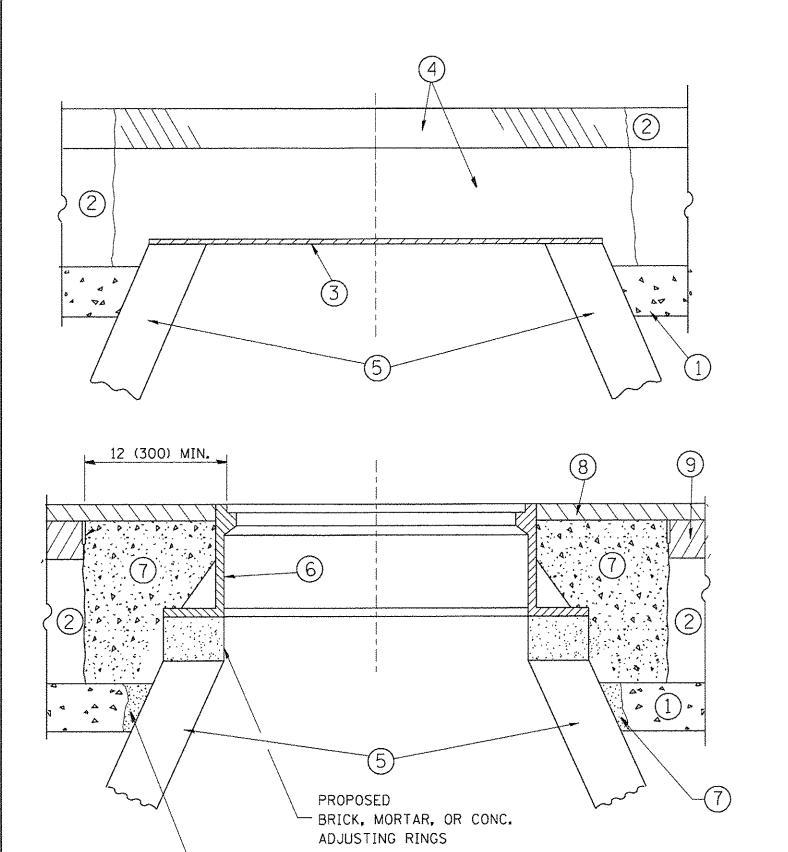
STA. 63+78, 124 LF

WHITE - BICYCLE CROSS WALK - 12' WIDE

WHITE - BICYCLE CROSS WALK - 6' WIDE

TOTAL SHEET SHEETS NO. COUNTY SECTION DUPAGE/WILL 31 14 1566 16-00168-00-RS CONTRACT NO. 51D75 FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT





NOTES:

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

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

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

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

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

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

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

LOCATION OF STRUCTURES:

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

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)."

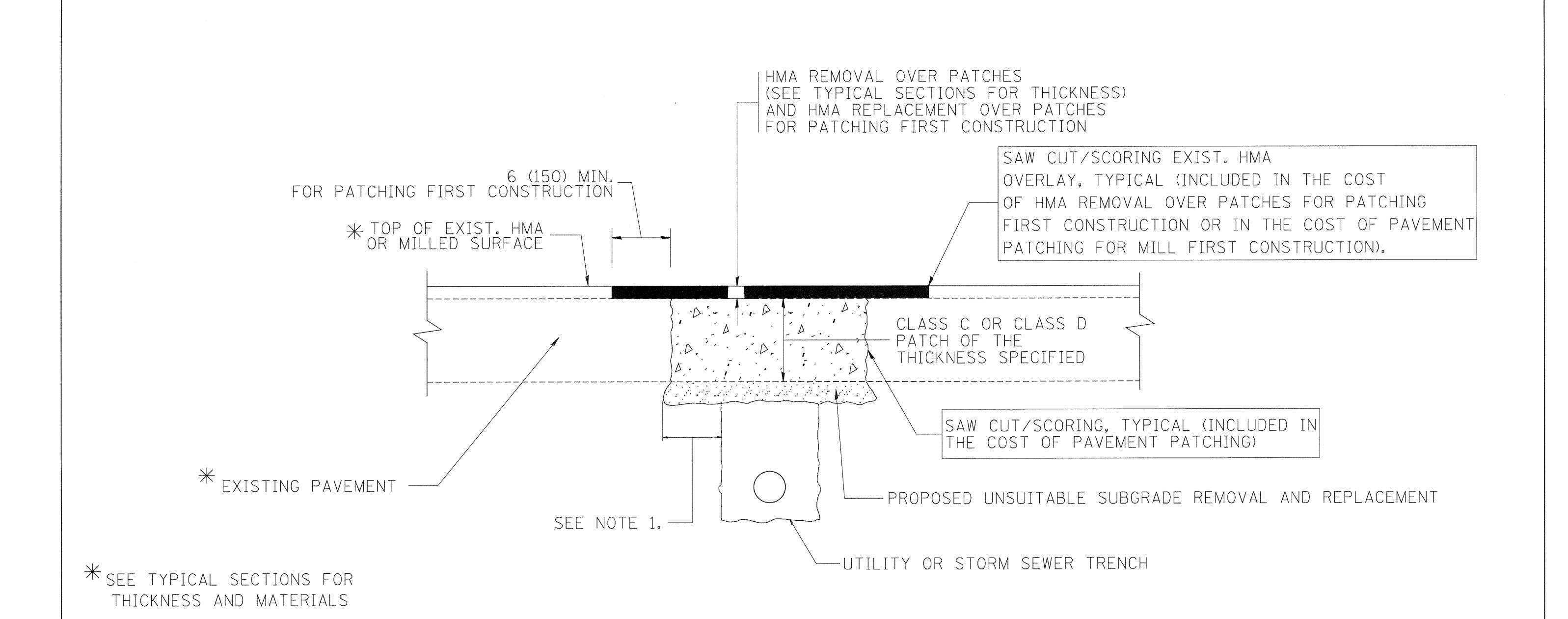
THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = bouerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04		DETAILS FOR	F.A.U. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\bauerdl\d01	108315\bd08.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		1566 16-00168-00-RS	DUPAGE/WILL 31 16
	PLOT SCALE = 1968.5000 ' / m	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION	FRAMES AND LIDS ADJUSTMENT WITH MILLING	BD600-03 (BD-8)	CONTRACT NO. 61076
	PLOT DATE = 12/6/2011	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 FE	D. AID PROJECT



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

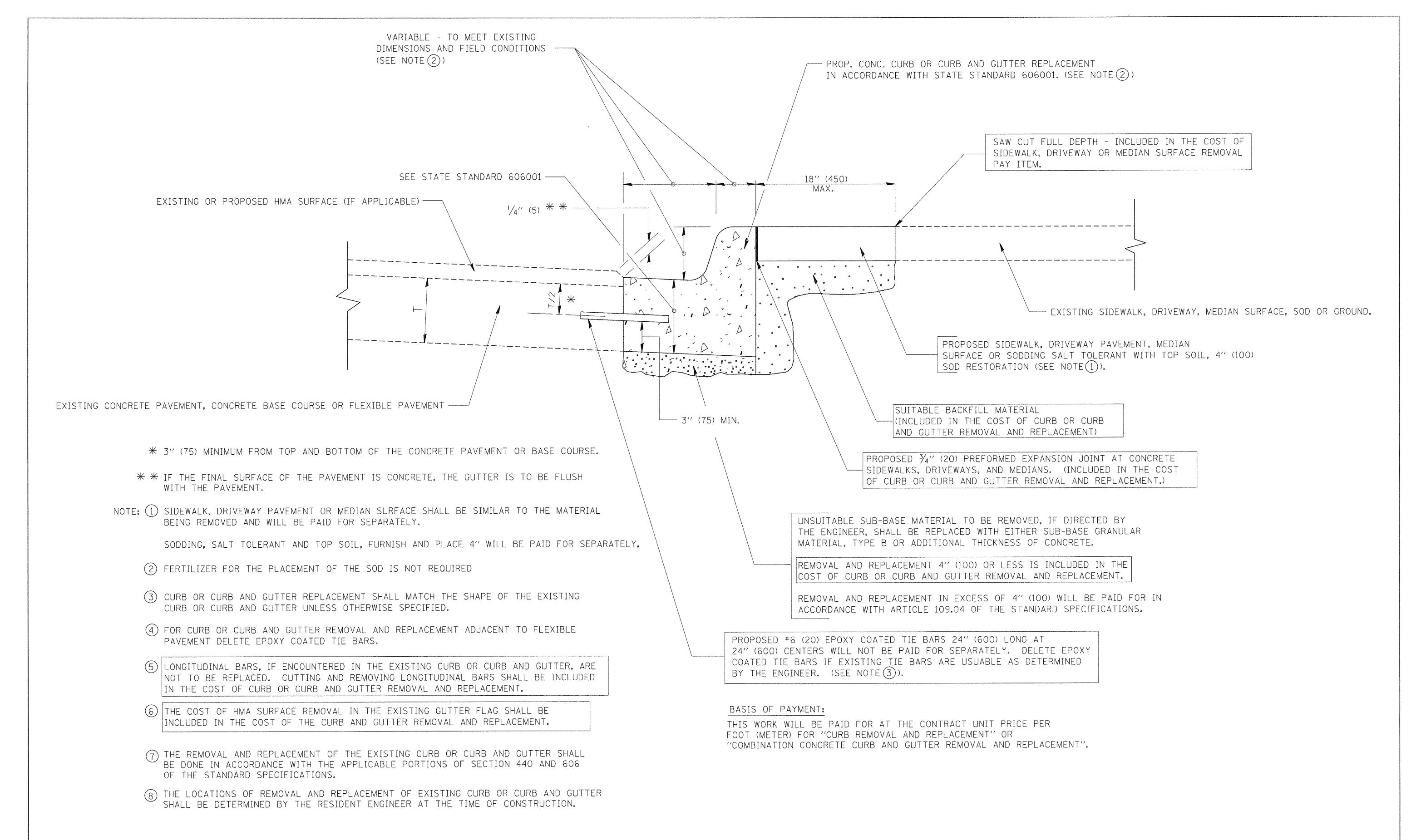
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ 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 PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

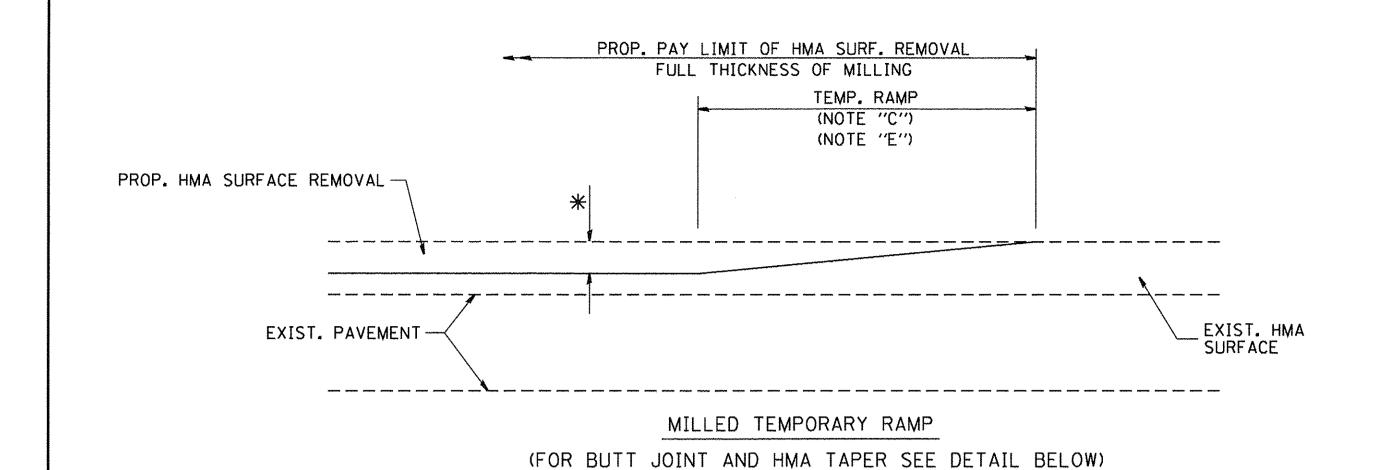
FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	RTE. SECTION	COUNTY SHEETS NO.
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS	HMA SURFACED PAVEMENT	1566 16-00168-00-RS	DUPAGE/WILL 31 17
	PLOT SCALE = 50.000 '/ IN.	CHECKED ~	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	TIVIA SURFACED PAVEIVIENI	BD400-04 (BD-22)	CONTRACT NO. 61076
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FE	D. AID PROJECT



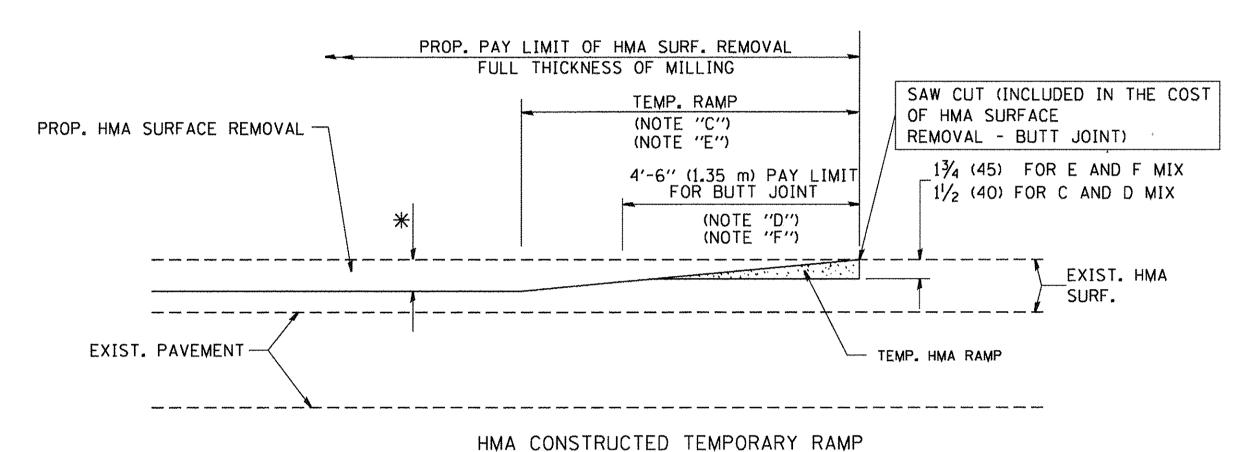
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED	D. AID PROJECT
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT	BD600-06 (BD-24)	CONTRACT NO. 61076
c:\pw_work\pwidot\drivakosgn\d0108315\b	d24.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		1566 16-00168-00-RS	DUPAGE/WILL 31 18
FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	RTE. SECTION	COUNTY SHEETS NO.



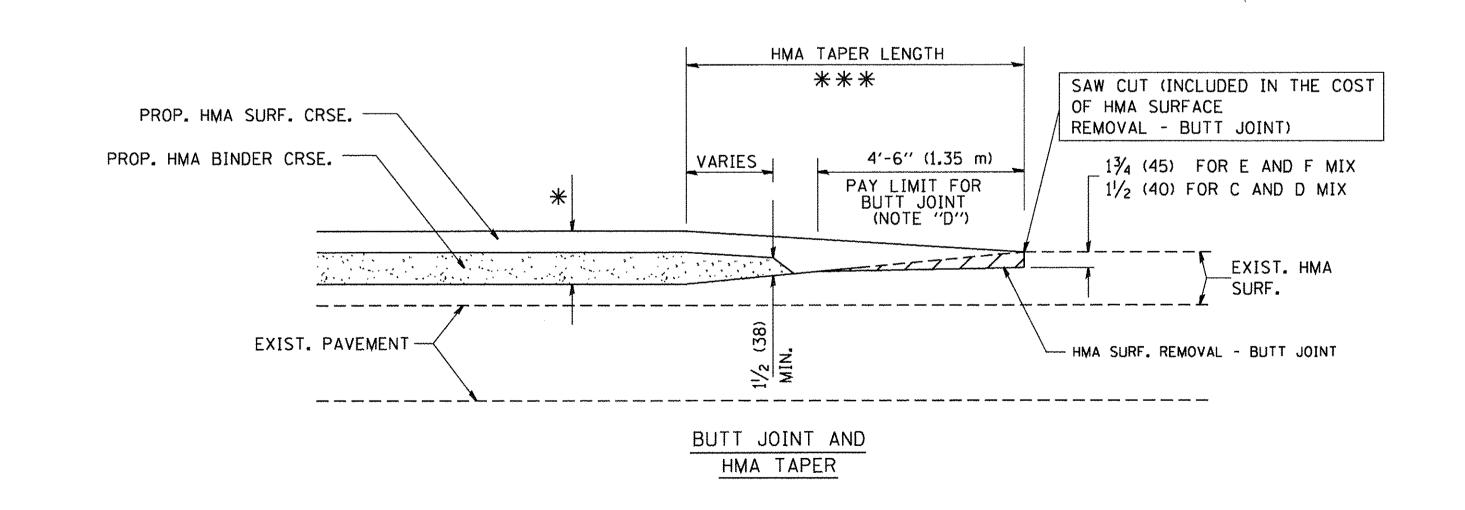
OPTION 1



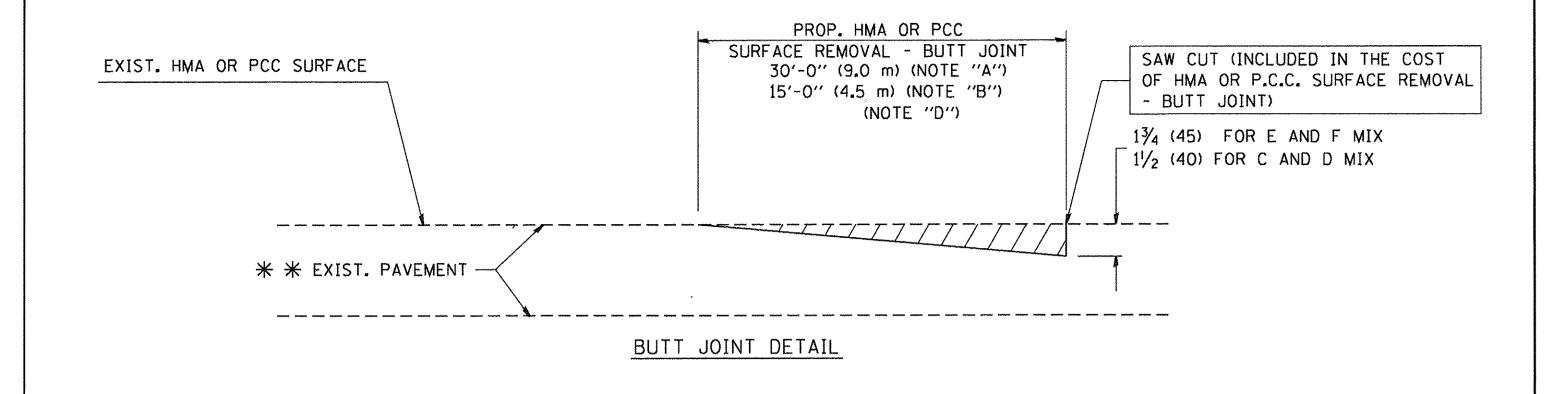
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

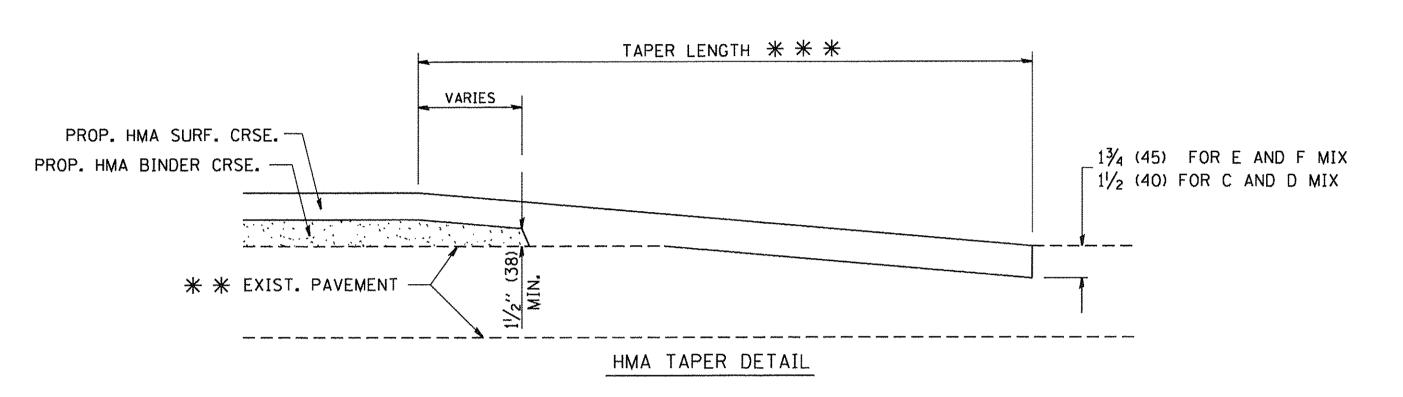
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

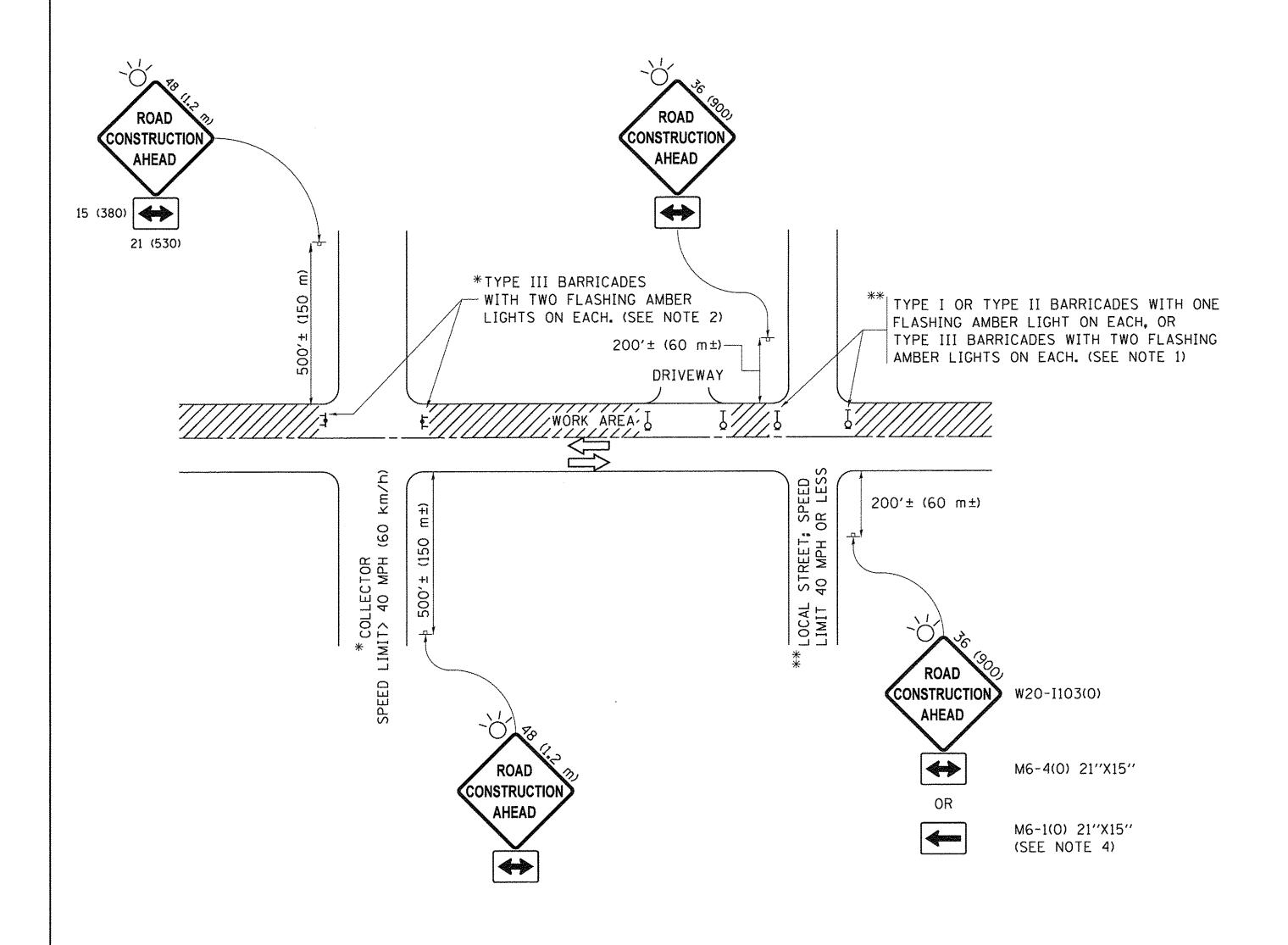
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** ** ** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

RITT JOINT AND	SECTION COUNTY	SHEETS NO.
E OF ILLINOIS 1 1566	3 16-00168-00-RS DUPAGE/V	NILL 31 19
OF TRANSPORTATION HIVIA TAPER DETAILS	BD400-05 BD32 CONTRA	ACT NO. 61076
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED.		
	ATE OF ILLINOIS IT OF TRANSPORTATION BUTT JOINT AND HMA TAPER DETAILS	ATE OF ILLINOIS IT OF TRANSPORTATION HMA TAPER DETAILS BOTT JOINT AND 1566 16-00168-00-RS DUPAGE/V BD400-05 BD32 CONTRA



NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - O) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - O) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. 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.
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

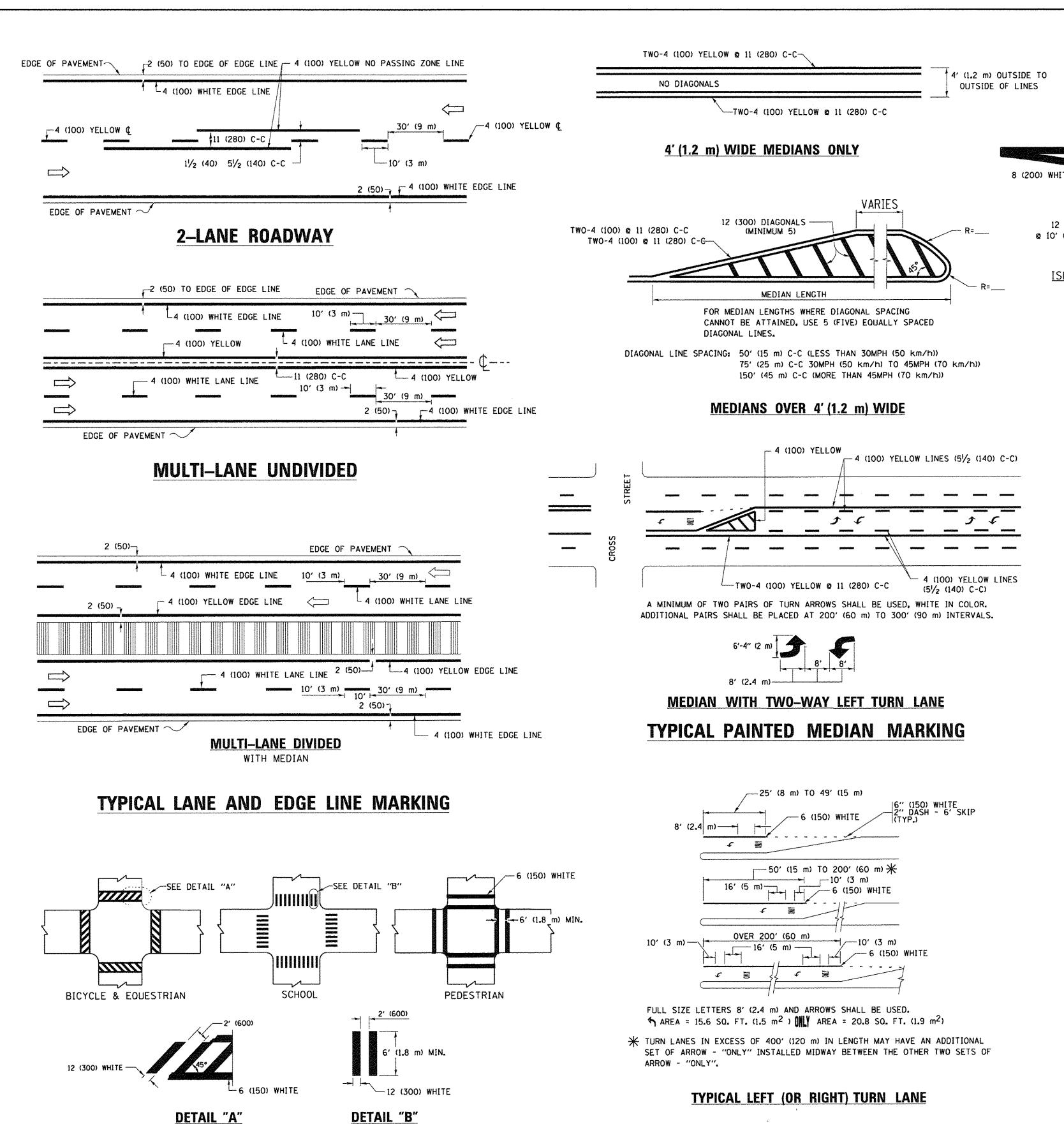
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw://IL084EBIDINTEG.illinois.gov:PWIDOT/Do	ouments\IDOT Offices\District 1\Projects\Dist	G ORAWM \CADData\CADsheets\tc!0.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE	OF	ILLINOIS
DEPARTMENT (OF T	RANSPORTATION

	TRAFFIC	CONT	30I	AND I	PROTEC	TION FOR
	SIDE ROADS	S, INTE	RS	ECTION	S, AND	DRIVEWAYS
SCALE: NONE	SHEET 1	OF	1	SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
1566	16-00168-00-RS		DUPAGE/WILL	31	20
	TC-10		CONTRACT	NO. 6	1074
	ILLINOIS	FED. A	D PROJECT		



TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

THE ROAD WHICH IT CROSSES

8 (200) WHITE

12 (300) WHITE DIAGONALS

2 10' (3 m) OR LESS SPACING

ISLAND OFFSET FROM PAVEMENT EDGE

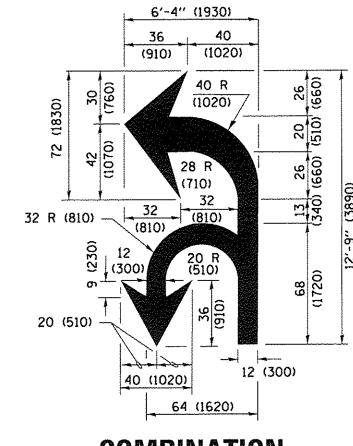
8 (200) WHITE

RAISED

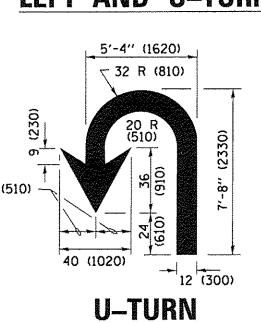
8 (200) WHITE -

TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE



COMBINATION LEFT AND U-TURN



SPEED LIMIT

30

35

40

45

50

55

D(FT)

345

425

500

580

665

750

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 & 4 (100)	SOLID SOLID	YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2,4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS,
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS & 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8′)	12 (300) © 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

SECTION COUNTY C. JUCIUS 09-09-09 DESIGNED -REVISED EVERS FILE NAME = USER NAME = footemj DISTRICT ONE STATE OF ILLINOIS C. JUCIUS 07-01-13 pw://IL084EBIDINTEG.:Illinois.gov:PWIDOT/Documents/IDOT Offices/District 1/Projects/Distpt@RAWM/CADData/CADsheets/tc13.dgn REVISED 1566 DUPAGE/WILL 31 16-00168-00-RS **TYPICAL PAVEMENT MARKINGS** DEPARTMENT OF TRANSPORTATION CONTRACT NO. 61176 REVISED C. JUCIUS 12-21-15 TC-13 CHECKED PLOT SCALE = 50.000 ' / in. SHEET 1 OF 1 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT SCALE: NONE DATE REVISED C. JUCIUS 04-12-16 Default PLOT DATE = 4/13/2016 03-19-90

TYPICAL TURN LANE MARKING

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

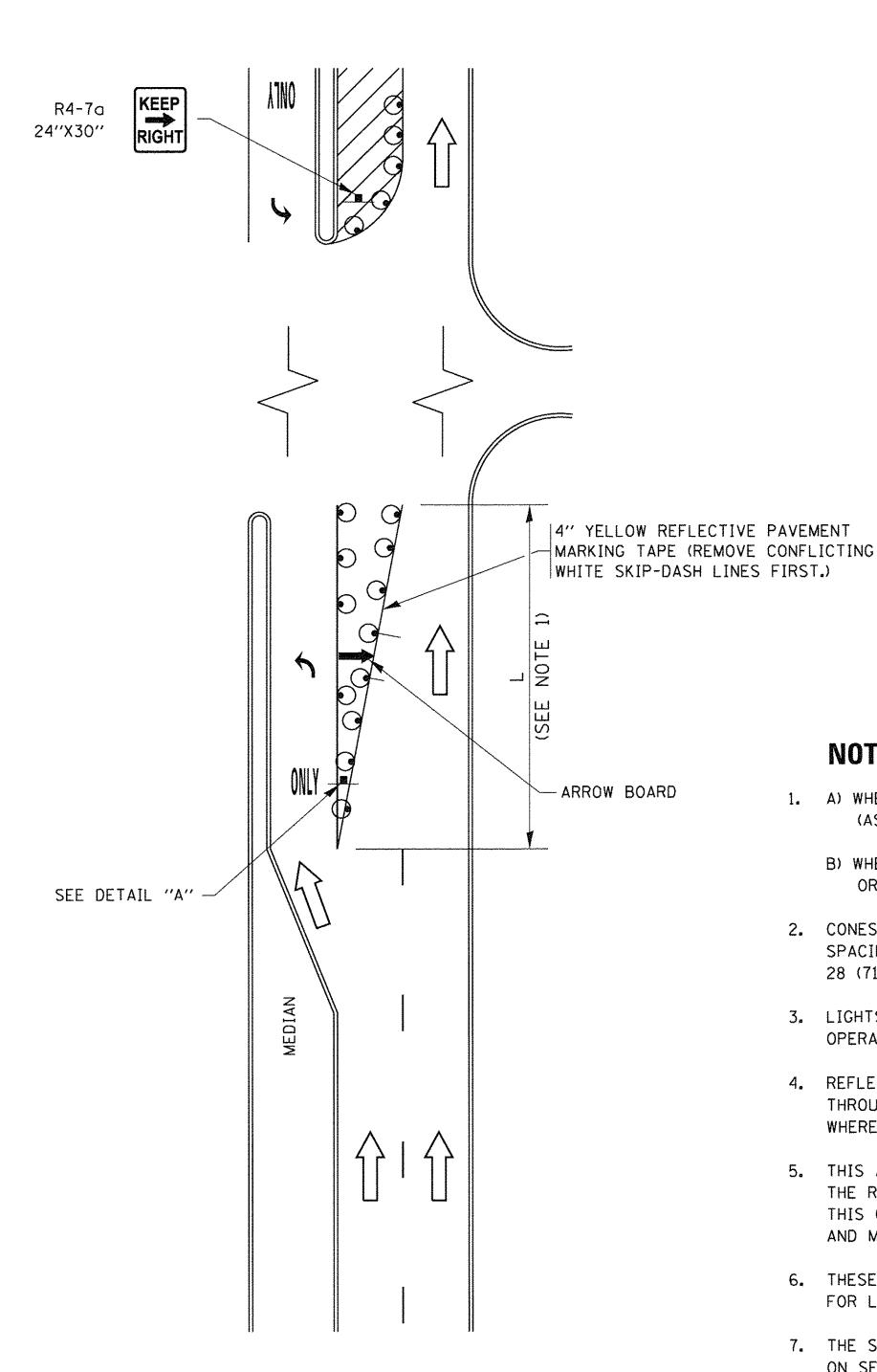
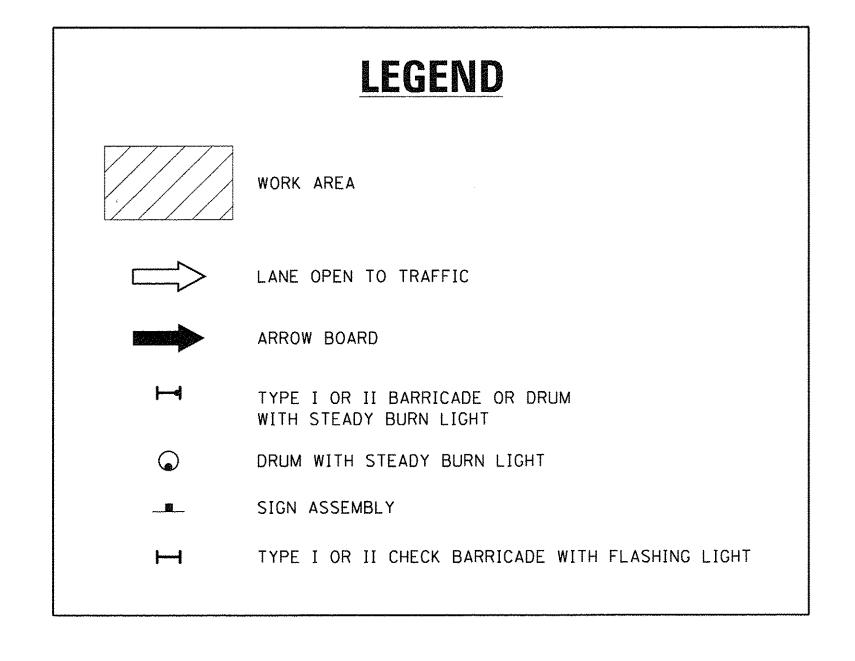


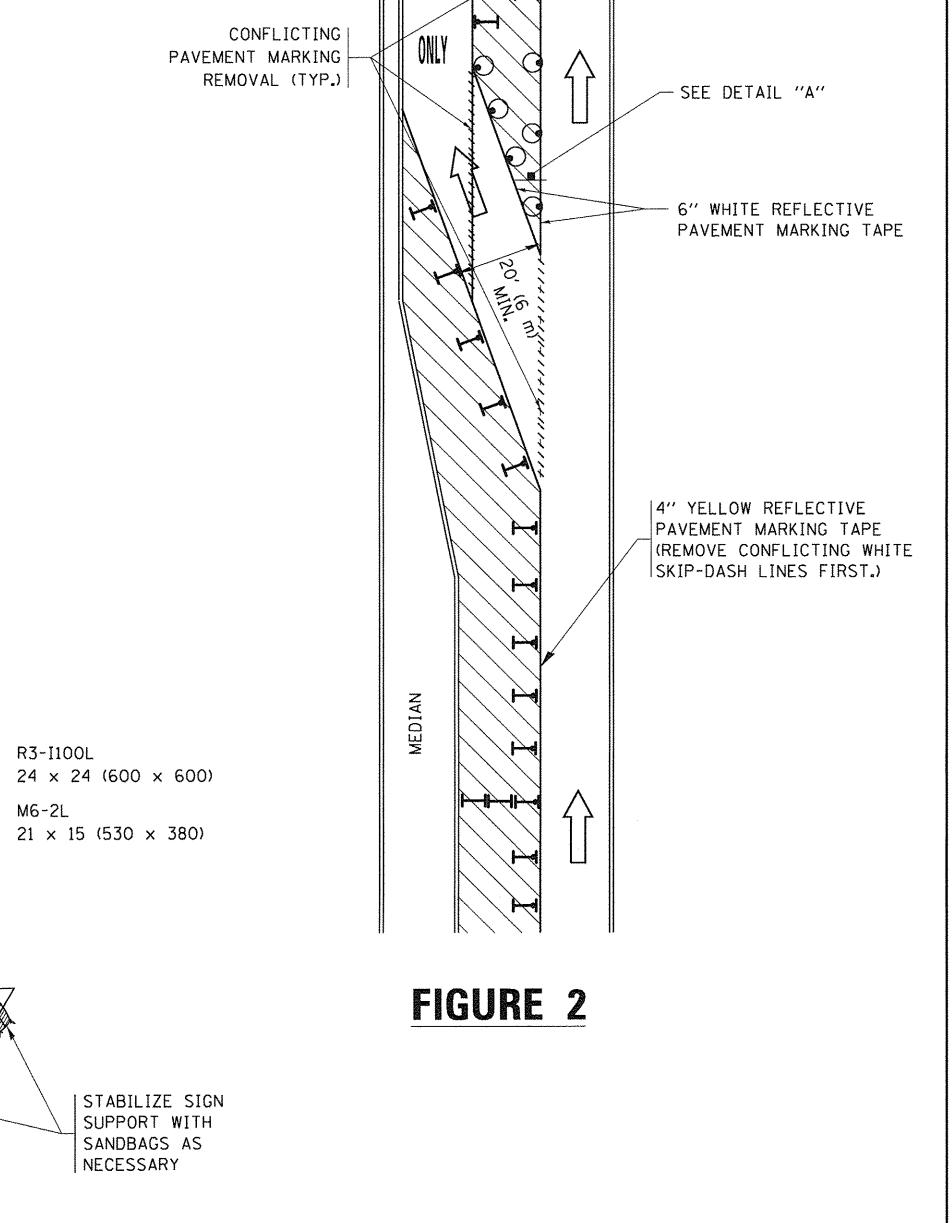
FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE



NOTES:

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE
- 2. 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.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. 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-I100R 24 x 24 (600 x 600) AND M6-2R 21 \times 15 (530 \times 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

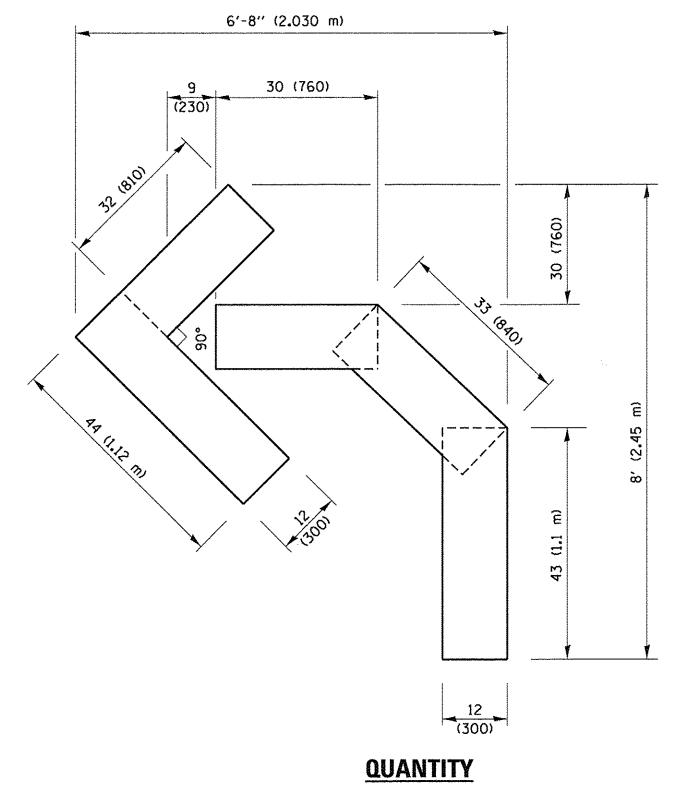


DETAIL A

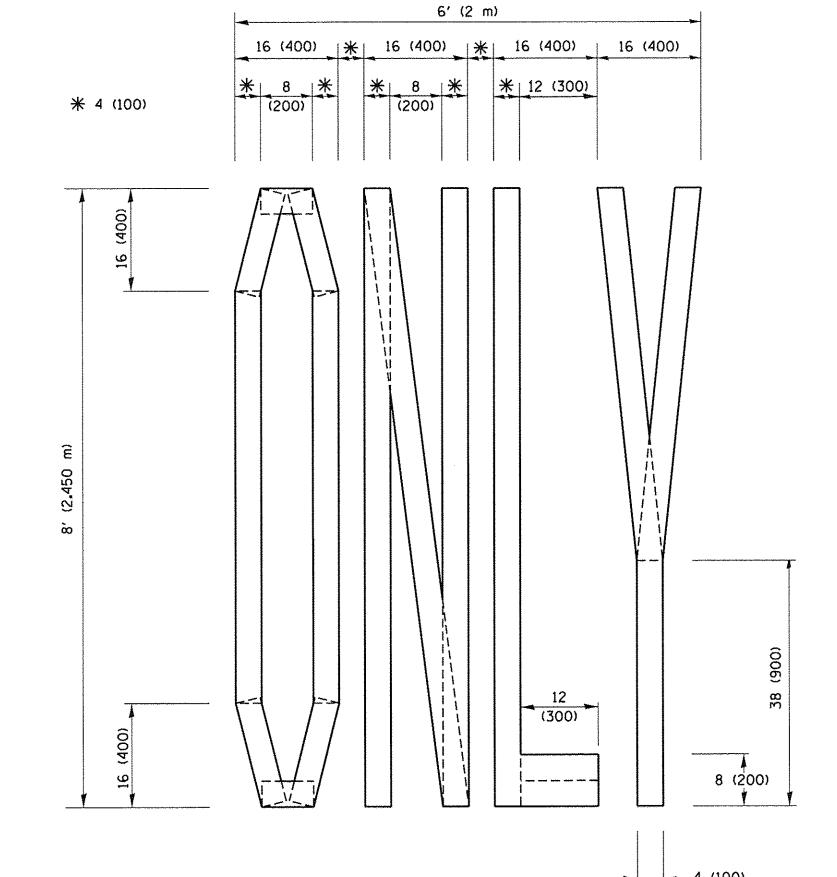
LANE

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

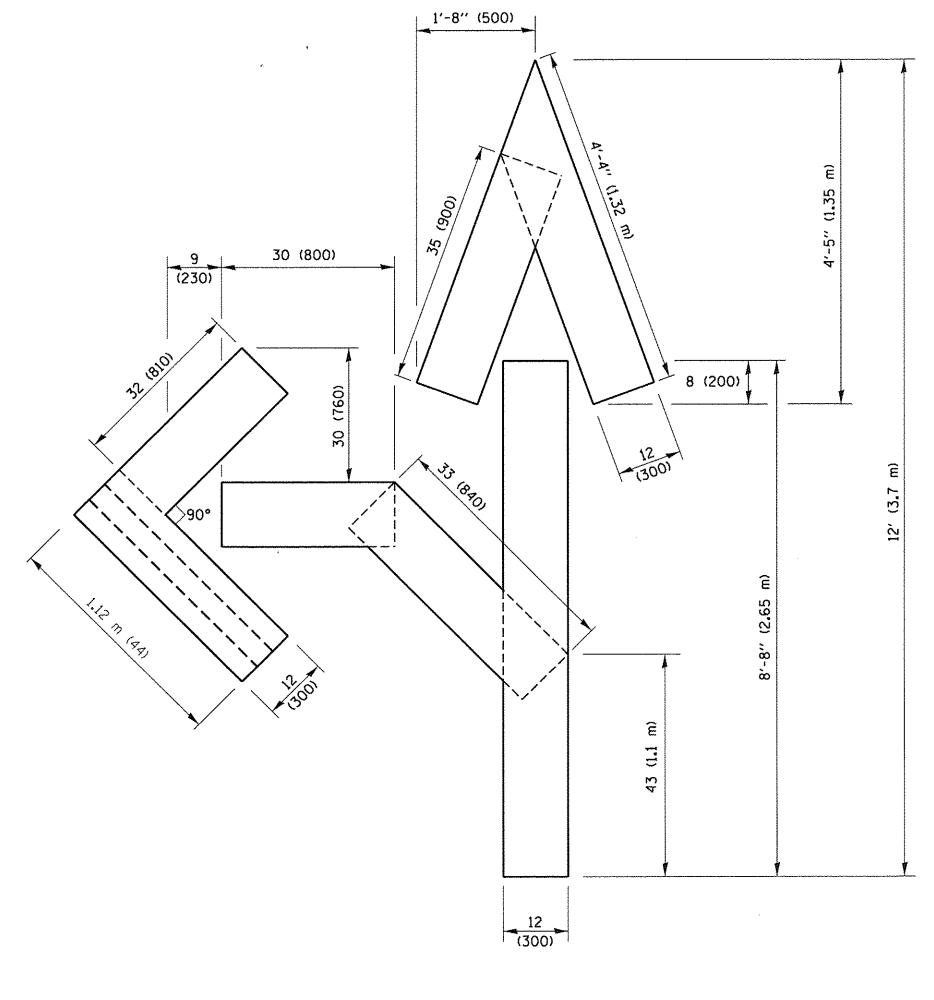
FILE NAME =	USER NAME = footemj	REVISED -T. RAMMACHER 09-08-94 REVISED - R. BORO 09-14-09		TRAFFIC CONTROL AND PROTECTION AT TURN BAYS	F.A.U. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
pw:\\ILØ84EBIDINTEG.illino	ois.gov:PWIDOT\Documents\IDOT Offices\District 1\Proje	ects\Dist REVISED - A. SCHUETZE 07-01-13	STATE OF ILLINOIS	(TO REMAIN OPEN TO TRAFFIC)	1566	16-00168-00-RS	DUPAGE/WILL 31 22
	PLOT SCALE = 50.0000 '/ in.	REVISED - A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION	(IU NEWIAIN OPEN IU INAFFIC)		TC-14	CONTRACT NO. 61176
Default	PLOT DATE = 9/15/2016	REVISED -T. RAMMACHER 01-06-00 REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT



4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



4 (100) LINE = 64.1 ft. (19.5 m) 21.4 sq. ft. (1.99 sq. m)

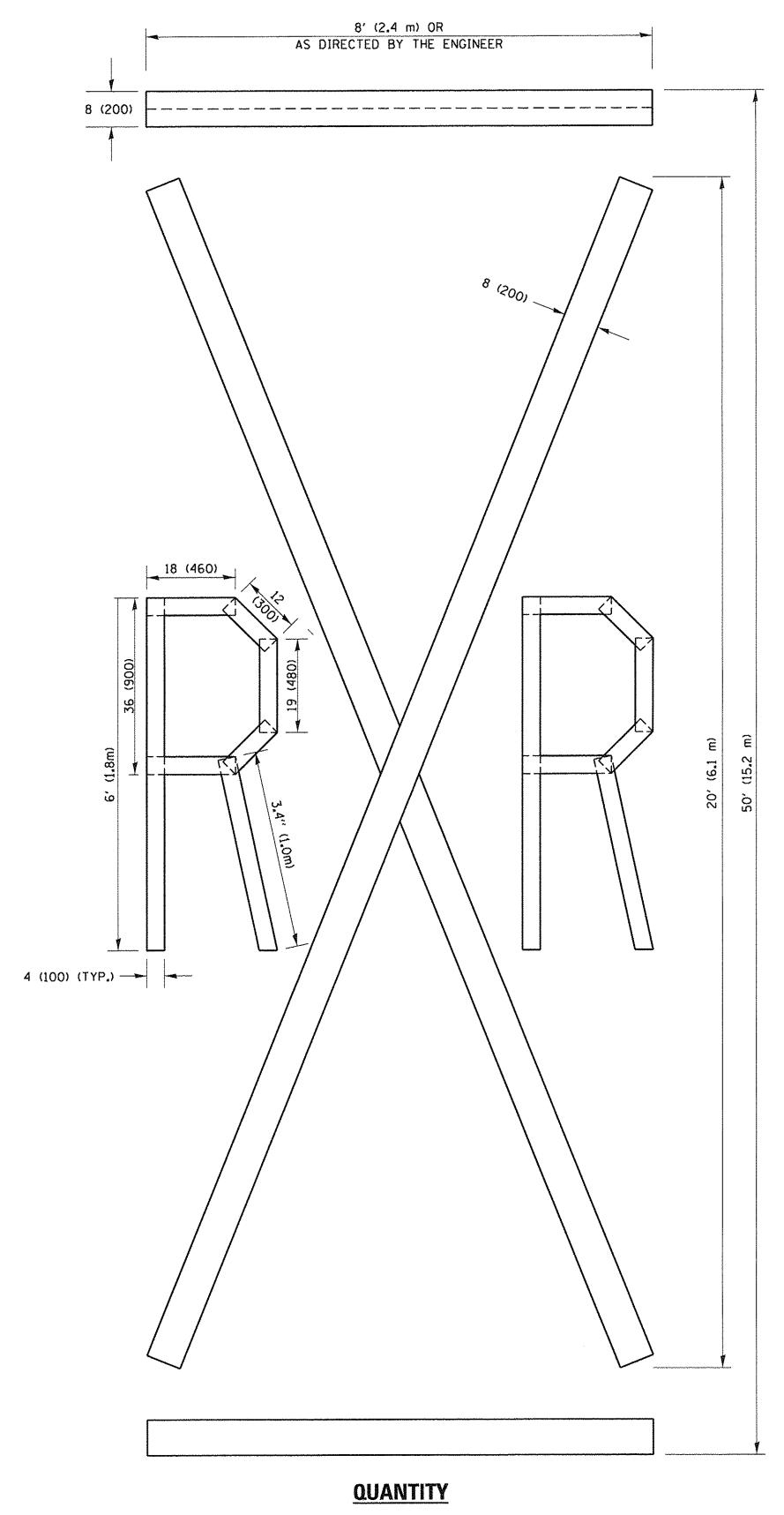


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED	-T. RAMMACHER 03-02-9
pw:\\ILØ84EBIDINTEG.:ll1no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	DRAWN\CADData\CADsheets\tc16.dgn	REVISED	-E. GOMEZ 08-28-00
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED	-E. GOMEZ 08-28-00
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED	- A. SCHUETZE 09-15-16

QUANTITY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SHO	RT TERM	PAVEMENT	MARKING	LETTERS AND	SYMBOLS	1566	16-00168-00-RS	DUPAGE/WILL	31	23	
							TC-16	CONTRACT	NO. 6	1076	
SCALE: NONE	SHEET	NO. 1 OF I	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FEE	. AID PROJECT		•	ĺ

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

	EXISTING	PROPOSED	<u>ITEM</u>	EXISTING	PROPOSED	<u>ITEM</u>	EXISTING	PROPOSED
ONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R	R R Y
OMMUNICATION CABINET	ECC	СС	HEAVY DUTY HANDHOLE					G G → Y
ASTER CONTROLLER	EMC	MC	-SQUARE -ROUND				(•G) (•G) P	◆ G ◆ G
ASTER MASTER CONTROLLER	EMMC	ммс	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE	R R R	R R R Y
NINTERRUPTABLE POWER SUPPLY	4	4	JUNCTION BOX		0	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		Y Y Y G G G 4Y 4Y
ERVICE INSTALLATION (P) POLE MOUNTED	P	- P	RAILROAD CANTILEVER MAST ARM	$X \cup X \longrightarrow X$	X eX X			G G G 4Y 4G 4G
ERVICE INSTALLATION			RAILROAD FLASHING SIGNAL	$\overline{X} \ominus \overline{X}$	X • X		P RB	P RB
G) GROUND MOUNTED GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	G GM	RAILROAD CROSSING GATE	$X \rightarrow X$	X · X	PEDESTRIAN SIGNAL HEAD		*
ELEPHONE CONNECTION	ET	T	RAILROAD CROSSBUCK			AT RAILROAD INTERSECTIONS	(A)	
EEL MAST ARM ASSEMBLY AND POLE	O		RAILROAD CONTROLLER CABINET			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	(*) C (*) D	₩ C ★ D
UMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL	And Andrew opposition to the control of the control	Anti-confidence and anti-confidence speed	ILLUMINATED SIGN		
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH LUMINAIRE	o->X	• •	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		·····	"NO LEFT TURN"/"NO RIGHT TURN"		
IGNAL POST	0	◆ ◆ BM	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
BM) BARREL MOUNTED - TEMPORARY	~		INTERSECTION ITEM	·	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED		
DOD POLE	\otimes	€	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	(1*6)
Y WIRE GNAL HEAD	<i>></i>	> ─	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER	1	
GNAL HEAD WITH BACKPLATE	+>	+	ABANDON ITEM		А	NO. 14 1/C	- /	— <u>c</u> —
GNAL HEAD OPTICALLY PROGRAMMED	P P	P P	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	— <u>C</u>	
ASHER INSTALLATION	o-DF o-DFS	F FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		<u></u>
FS) SOLAR POWERED	F DFS	F FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	
EDESTRIAN SIGNAL HEAD		-	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F		——————————————————————————————————————
DESTRIAN PUSH BUTTON APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	⊚ ⊚ APS		PREFORMED DETECTOR LOOP		P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		24F)
ADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	$\begin{bmatrix} \overline{s} \end{bmatrix}$ (\overline{s})	s s			—(36F)—
DEO DETECTION CAMERA		V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		IS (IS)			
ADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING	$\left[\overbrace{as}\right] = \left(\widehat{as}\right)$	as as	GROUND ROD -(C) CONTROLLER -(M) MAST ARM		
AN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ	(SYSTEM) DETECTOR WIRELESS DETECTOR SENSOR	(W)	@	-(M) MAST ARM -(P) POST -(S) SERVICE		
MERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR WIRELESS ACCESS POINT					
ONFIMATION BEACON	○ —()	•—	HINLESS ACCESS FUINT					
	o+ 	●++						
VIRELESS INTERCONNECT		•						

DEPARTMENT OF TRANSPORTATION

TS-05

-05 CONTRACT NO. 61076
| ILLINOIS FED. AID PROJECT

OF 7 SHEETS STA.

TO STA.

SCALE: NONE

SHEET 1

REVISED -

REVISED -

CHECKED - LP

DATE - 9/29/2016

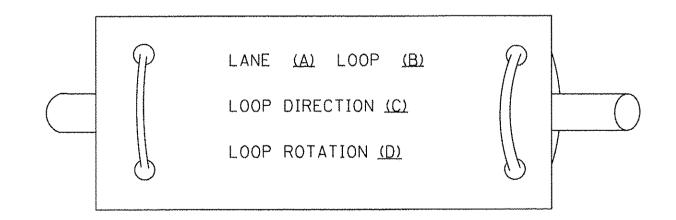
PLOT SCALE = 50.0000 '/ in.

PLOT DATE = 9/29/2016

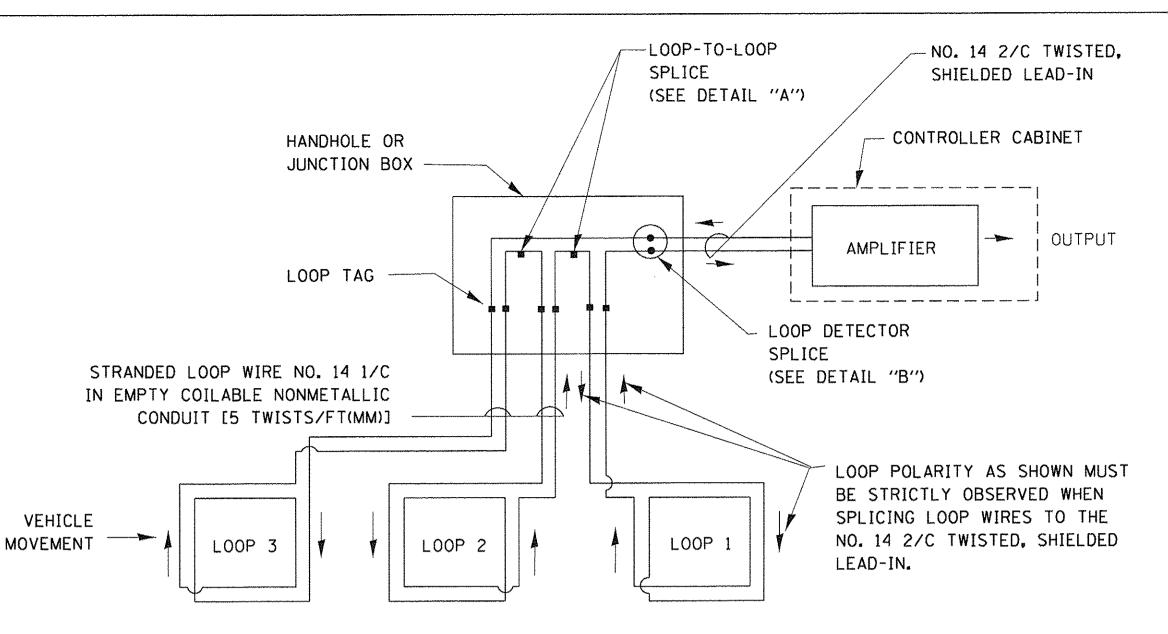
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

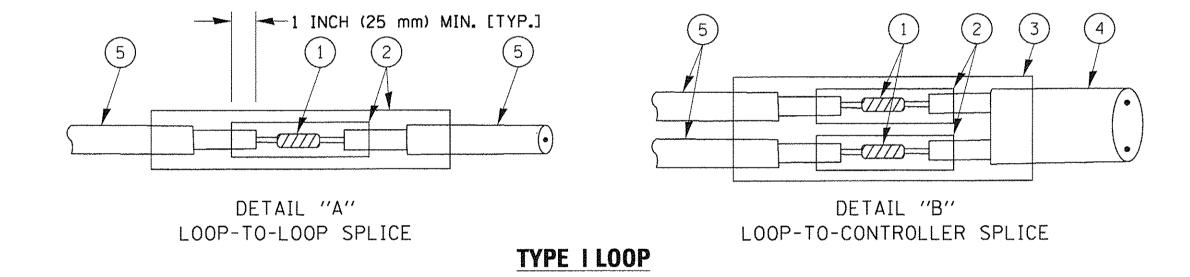


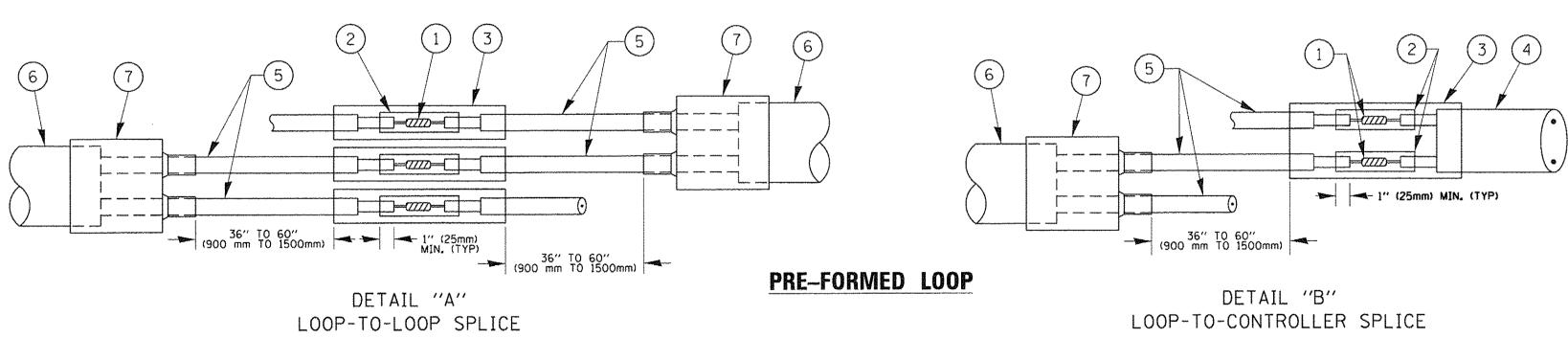
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth. The western union splices shall be staggered.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

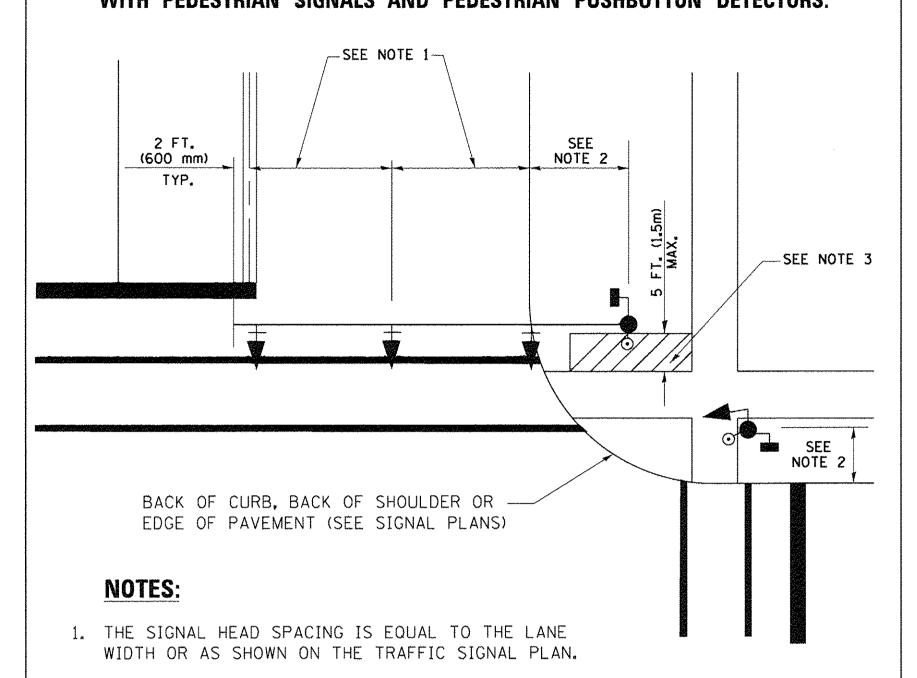
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED -	DAD	REVISED - DAG 1-1-14	
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	PLOT SCALE = 50.0000 '/ in.	CHECKED -	DAD	REVISED -	
	PLOT DATE = 1/13/2014	DATE -	10-28-09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL S	SHEET NO.
		1566	16-00168-00-RS	DUPAGE/WILL	31	25
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			CONTRACT	NO. 61	D76
SCALE: NONE	SHEET NO. 2 OF 7 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED	. AID PROJECT		

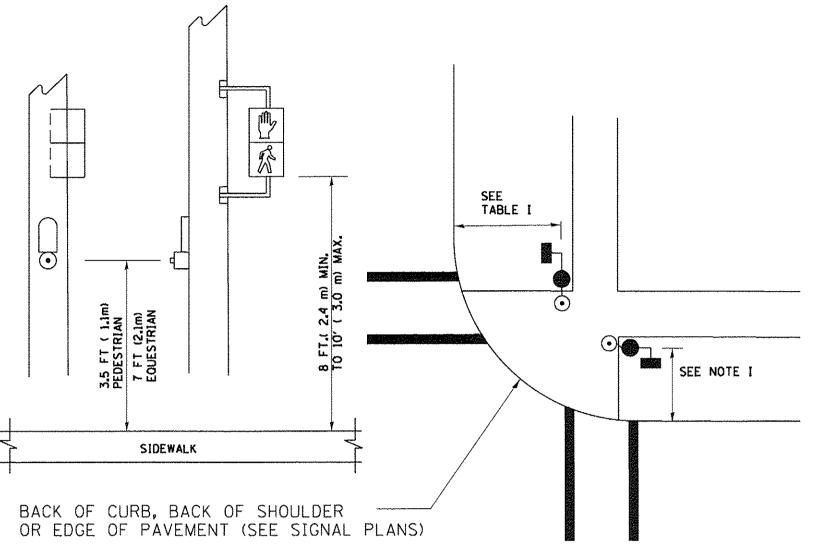
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCO AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.

RECOMMENDED PUSHBUTTON LOCATIONS 5.0 FT. (1.5 m) MAX. 1.5 FT. (0.45 m) MIN. (1.8 m) MAX. 5.0 FT. (1.5 m) MAX. LEGEND 1.5 FT. (0.45 m) MIN. 6.0 FT.* (1.8 m) MAX. → DOWNWARD SLOPE PEDESTRIAN PUSHBUTTON RECOMMENDED PUSHBUTTON LOCATIONS

- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- 1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

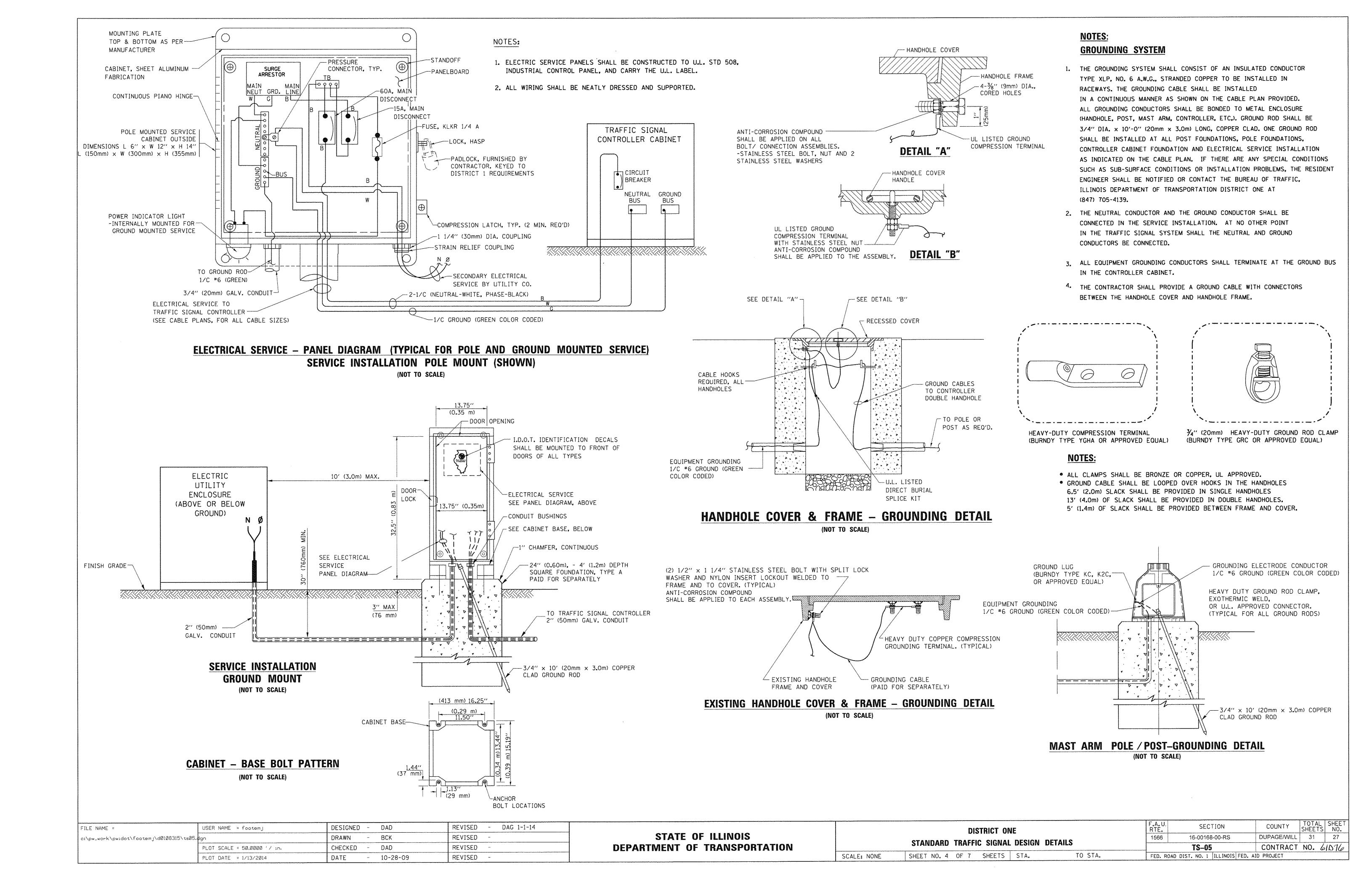
TRAFFIC SIGNAL FOLIPMENT OFFSET

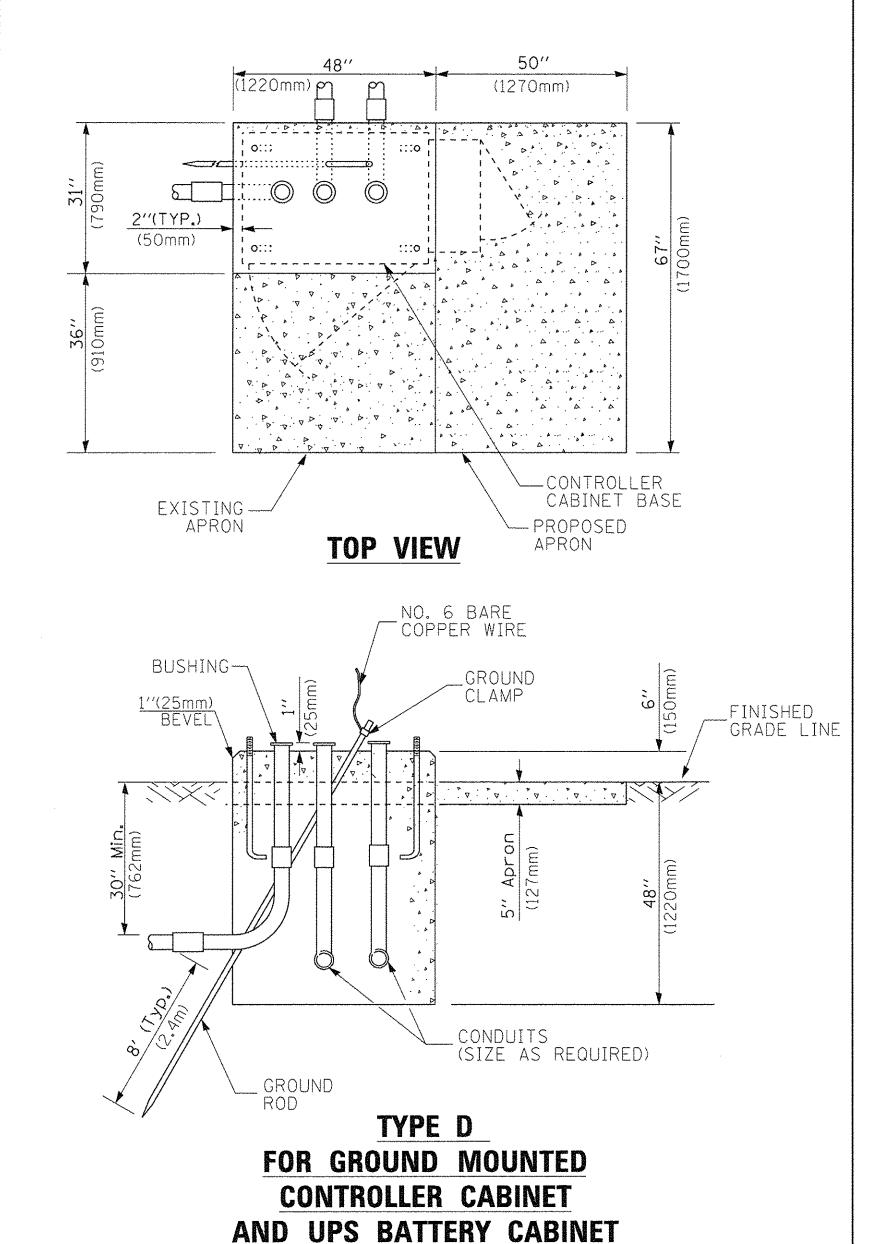
TRAFFIC SIGNAL EQUIPMENT OFFSET							
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)					
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.					
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.					

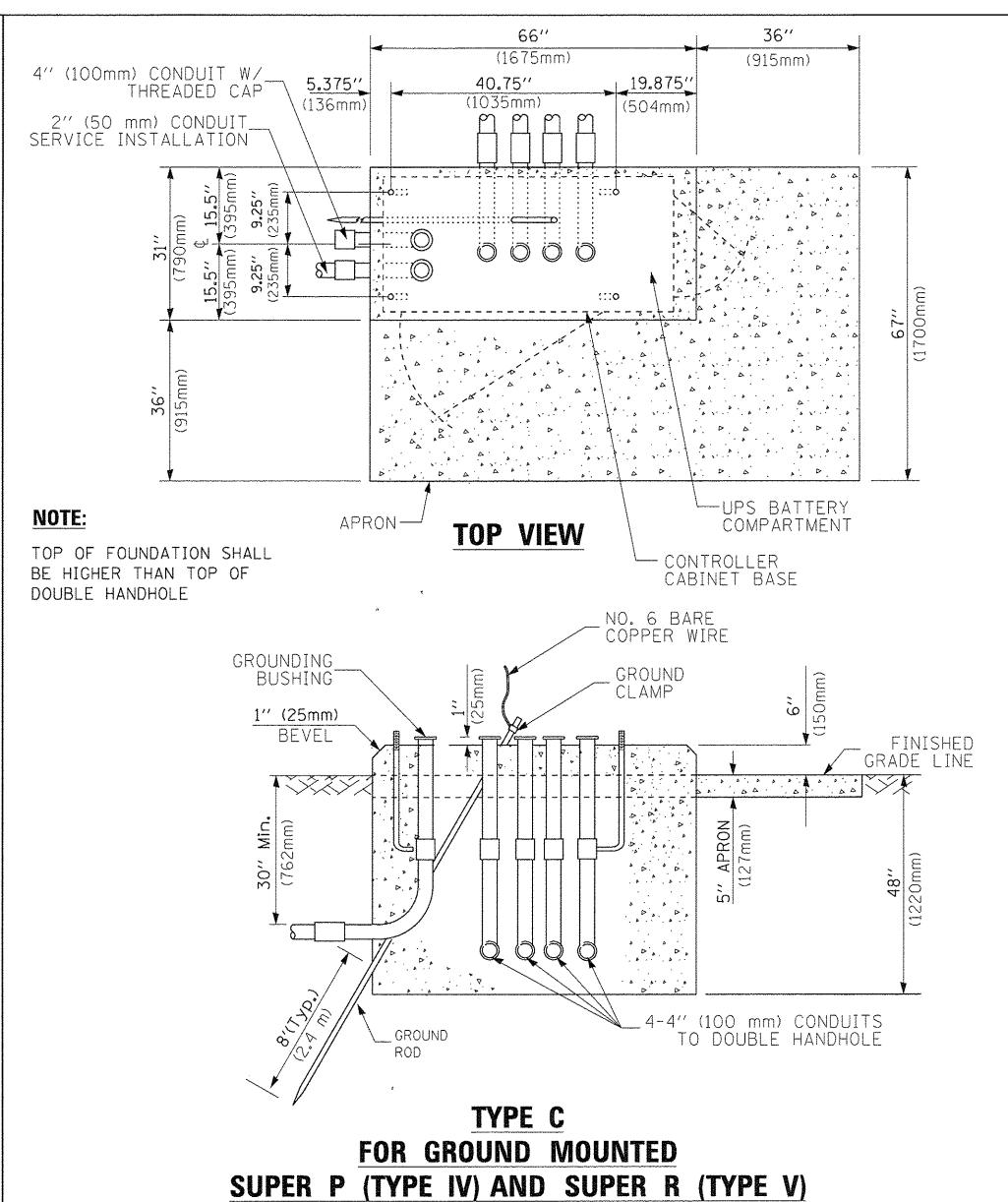
NOTES:

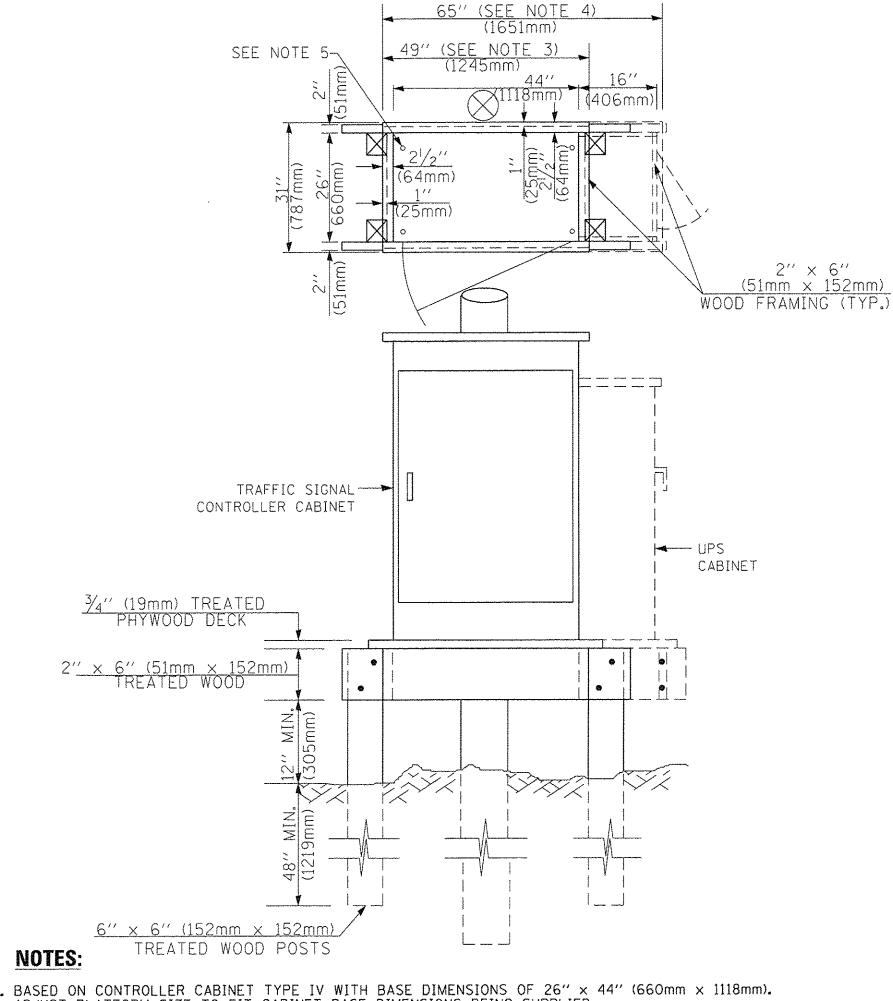
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS. FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

FILE NAME = c:\pw_work\pwidot\footemj\d0108315\ts05	USER NAME = footemj	DESIGNED - DAD DRAWN - BCK	REVISED - DAG 1-1-14 REVISED -	STATE OF ILLINOIS	DISTRICT ONE	F.A.U. SECTION 1566 16-00168-00-RS	COUNTY TOTAL SHEET NO. DUPAGE/WILL 31 26
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	TS-05	CONTRACT NO. 61076
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED	AID PROJECT









- 1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" \times 44" (660mm \times 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF $16^{\prime\prime}$ × $25^{\prime\prime}$ (406mm × 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

},,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 	7
CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1,5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

DEPTH OF FOUNDATION

CONTROLLER CABINETS

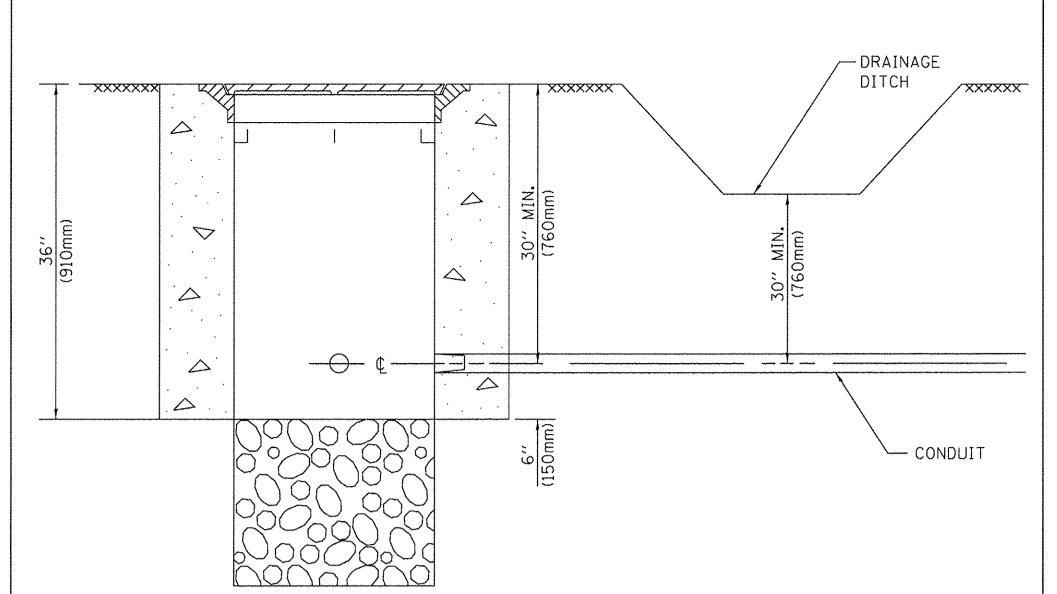
FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0'' (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0'' (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1.2m)

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36" (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundations are appeared. design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm)
- 4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

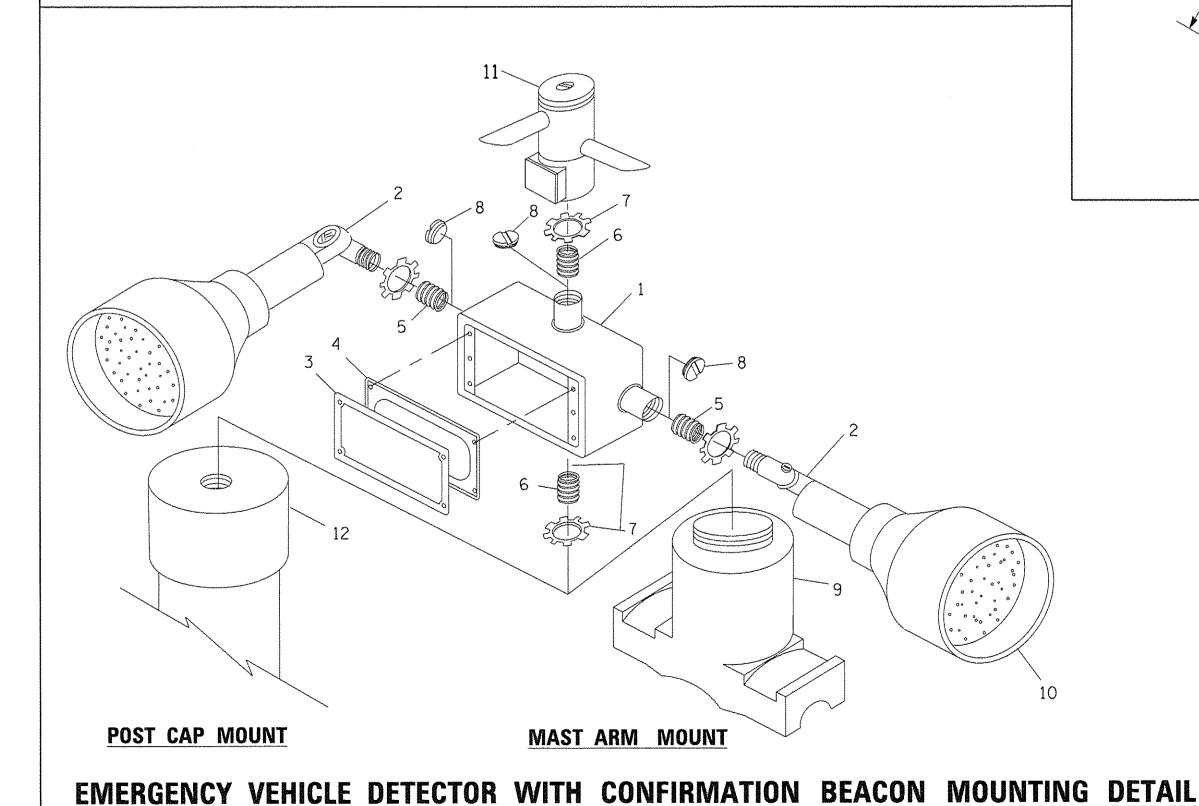
FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14		DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY TO SHE	TAL S ETS
c:\pw_work\pwidot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -	STATE OF ILLINOIS		1566	16-00168-00-RS	DUPAGE/WILL 3	.1
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO	1. 61
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FE	D. AID PROJECT	

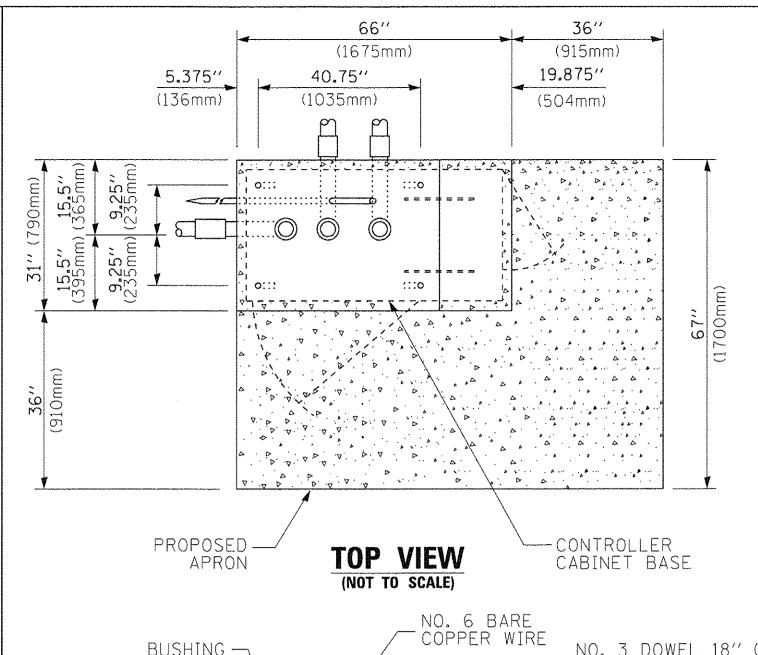


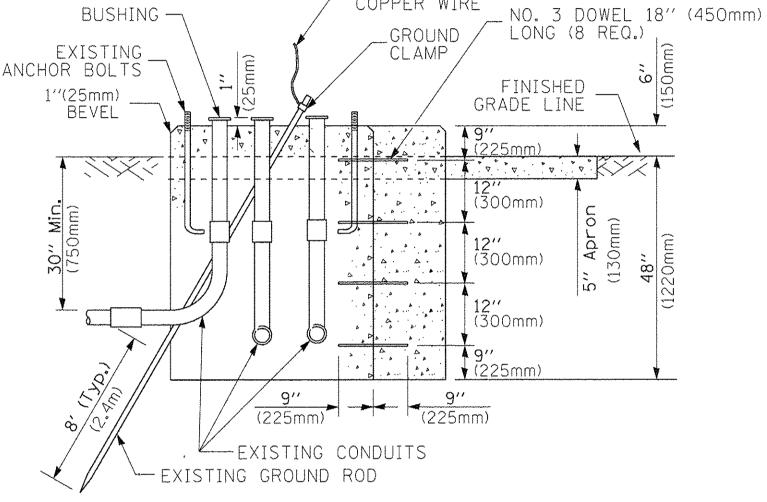
NOTES:

- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)

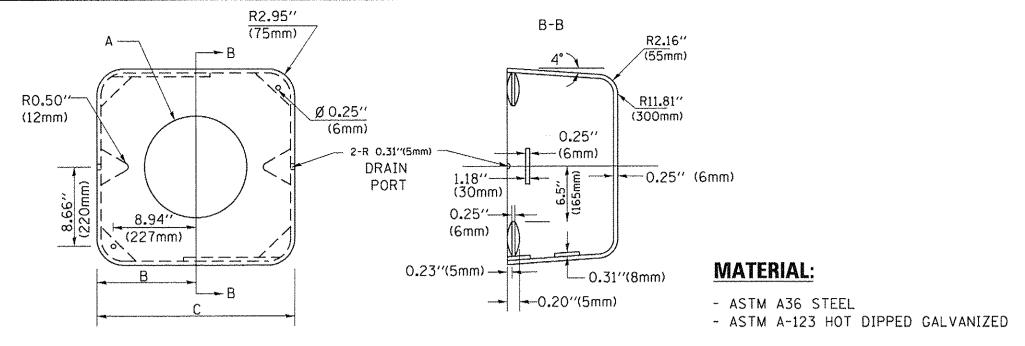






MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)

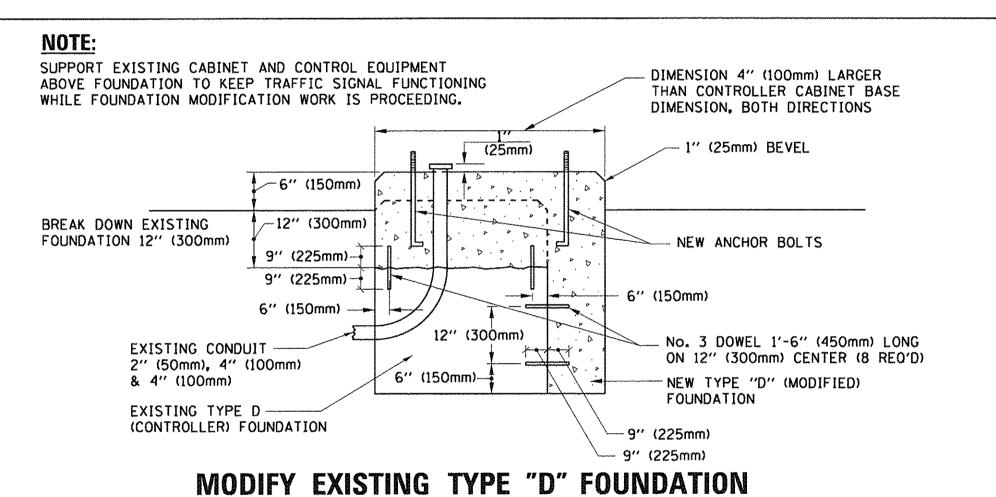


Α	В	С	HEIGHT	WEIGHT
VARIES	9.5′′(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0′′(330mm)	26′′(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5′′(470mm)	37''(940mm)	7'' (178mm) - 12'' (300mm)	126 lbs (57 kg)

SHROUD

NOTES:

- 1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



ITEM NO. **IDENTIFICATION** OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 4"(19 mm) CLOSE NIPPLE 4''(19 mm) LOCKNUT $\frac{3}{4}$ "(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT

NOTES:

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT

12 POST CAP [18 FT. (5.4 m) POST MIN.]

3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

GALVANIZED EXISTING CONDUIT STEEL HOOKS TO BE REMOVED 21 1/2" MIN. CONDUIT EXISTING CONDUIT TO REMAIN <u>PL AN</u> ELEVATION

NOTES:

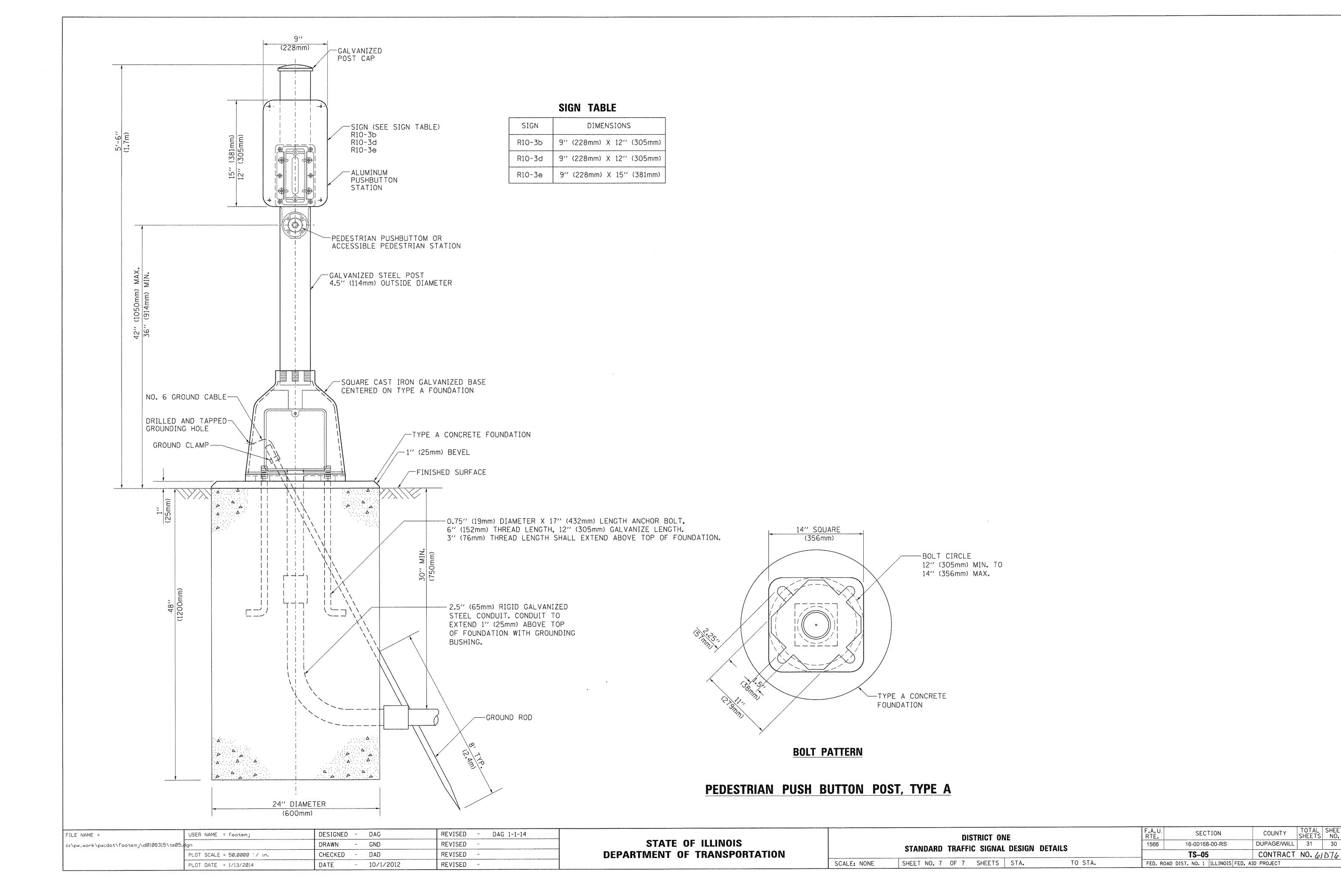
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED ~
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		1566	16-00168-00-RS	DUPAGE/WILL 31 29
	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO. 61076
SCALE: NONE	SHEET NO. 6 OF 7 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED	



PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER PAVED OR NON-PAVED SHOULDER 10' 10' (3.0 m) (3.0 m) 1" (25 mm) UNIT DUCT-TRENCHED TO E/P ***

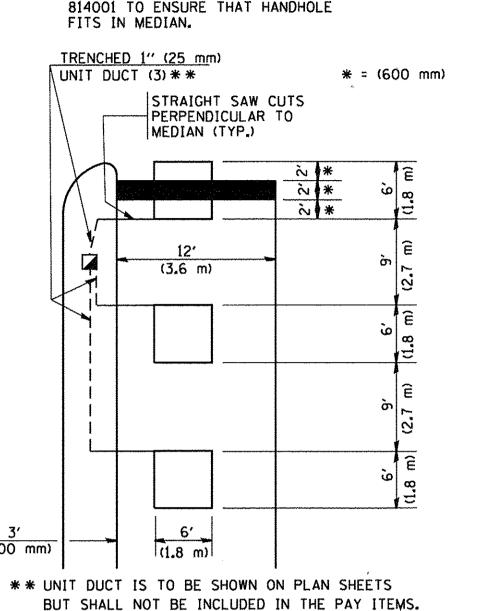
* * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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



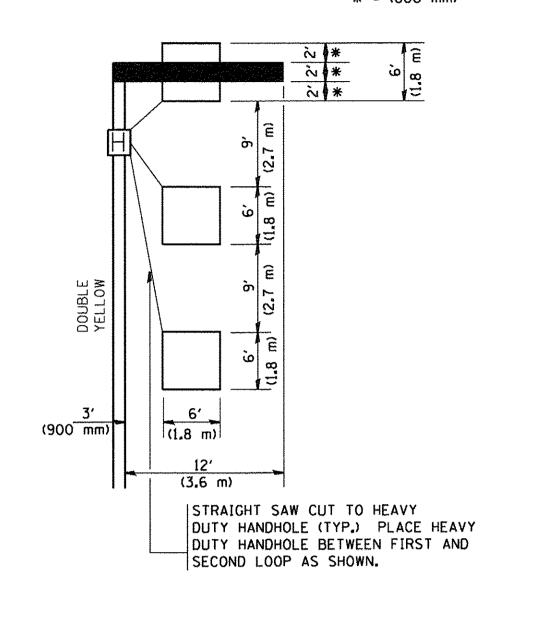
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)

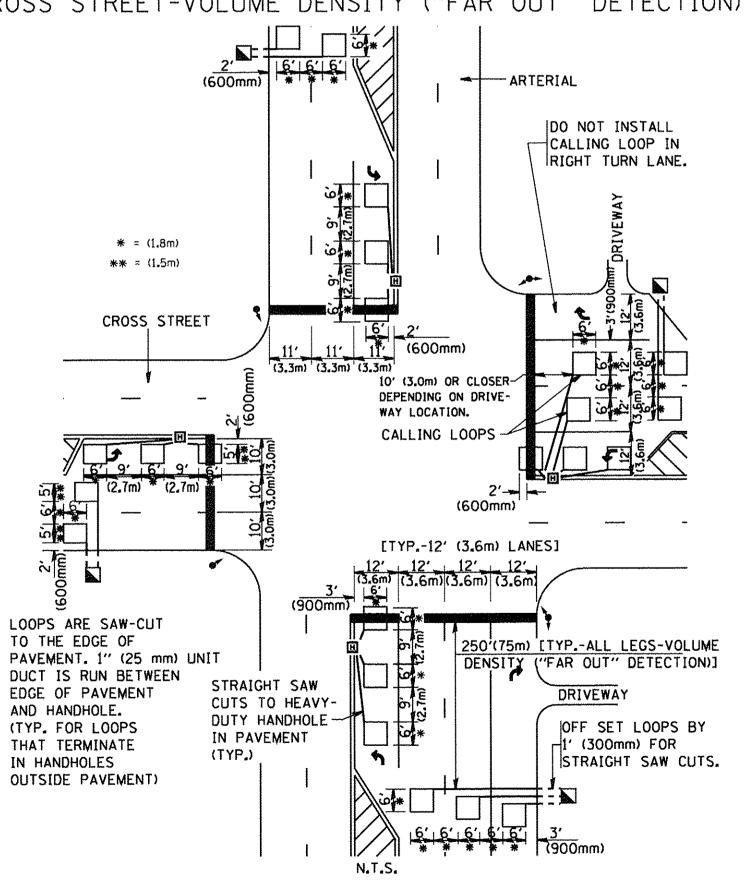


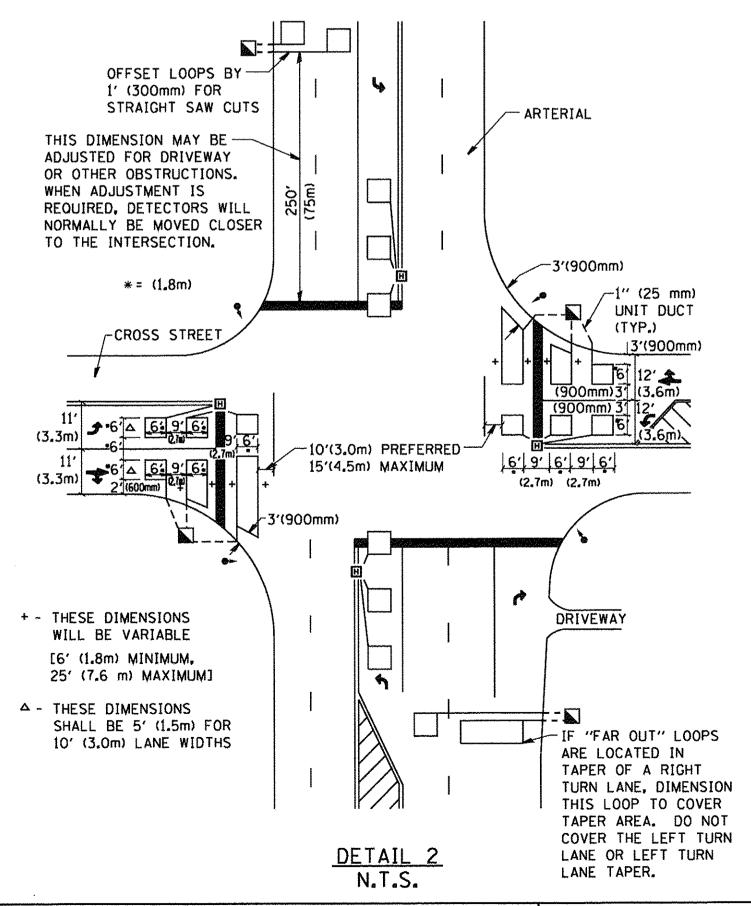
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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

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





NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON 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.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -	
W:\diststd\22x34\ts07.dgn		DRAWN -	REVISED -	
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.K.F.	REVISED -	
	PLOT DATE = 1/4/2008	DATE -	REVISED -	

DETAIL 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION			F.A.U. SECTION		COUNTY TOTAL SHEETS	
	1566	16-00168-00-RS	DUPAGE/WILL	31	31	
DETAILS FOR ROADWAY RESURFACING			TS-07		CONTRACT NO. 61076	
SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAL	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			