08-01-14 LETTING ITEM 021

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. 362 BARRINGTON ROAD AT BODE ROAD **SECTION 0105R-N(12)** INTERSECTION IMPROVEMENT **RIGHT TURN LANE (WIDENING)** TRAFFIC SIGNAL MODERNIZATION AND RESURFACING PROJECT: ACCM-0362(003) **COOK COUNTY** C-91-504-12

R. 10 E. AVERAGE DAILY TRAFFIC (B) W Golf Rd Golf Rd BARRINGTON RD. PROJECT ENDS BODE RD. STA. 105 + 00 2010 = 6900POSTED SPEED LIMIT BARRINGTON RD. 45 MPH BODE RD. PROJECT BEGINS STA. 99 + 08

GROSS & NET LENGTH = 592 FT. = 0.112 MILE

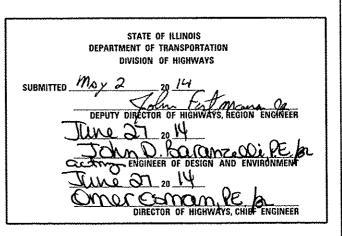
HANOVER

SCHAUMRURG

COOK 0105R-N(12) ILLINOIS CONTRACT NO. 60796

D-91-504-12





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE VILLAGES OF HOFFMAN ESTATES AND STREAMWOOD

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

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

PROJECT ENGINEER JENPAI CHANG 847-705-4432 PROJECT MANAGER KEN ENG

CONTRACT NO. 60T96

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INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SID. NO.	DESCRIPTION
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3-6	SUMMARY OF QUANTITIES	424031-01	MEDIAN PEDESTRIN CROSSINGS
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		602001-07	CATCH BASIN TYPE"A"
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35	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER	701421-06	LANE CLOSURE, MULTILANE, DAY OPERATION ONLY, FOR SPEED 2 45 MPH TO 55 MPH
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38	BUTT JOINT AND HMA TAPER DETAIL (BD-32)	701501-06	URBAN LANE CLOSURE, 2L. 2W. UNDIVIDED. FOR SPEED <45 MPH
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	AND DRIVEWAYS (TC-10)	701801 -05	LANE CLOSURE. MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
40	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)	701901~03	TRAFFIC CONTROL DEVICES
41	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	886001~01	DETECTOR LOOP INSTALLATIONS
42	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)		
43	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)		
44	ARTERIAL ROAD INFORMATION SIGN (TC-22)		

ADDITIONAL NOTE:

DRIVEWAY ENTRANCE SIGNING (TC-26)

DETAIL CROSS SECTIONS

46-4R

IN ADDITION TO PINNING THE TEMPORARY BARRIER WALL END SEECTIONS. A 3'-6" DEFLECTION AREA IS REQUIRED FROM THE BACK SIDE OF THE TEMPORARY CONCRETE BARRIER WALL TO ANY OBSTRUCTION OR DROP OFF IN THE WORK ZONE, IF THIS 3'-6" DEFLECTION AREA CANNOT BE MAINTAINED, THE TEMPORARY CONCRETE BARRIER WALL SHALL BE ANCHORED TO THE PAVEMENT THROUGH THE THREE (3) ANCHORING HOLES ON THE TRAFFIC SIDE OF THE BARRIER WALL. THIS WORK SHALL NOT BE PAID FOR SEPERATLEY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE TEMPORARY CONCRETE BARRIER WALL PAY ITEM.

PLAN NOTES

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

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD. UNLESS OTHERWISE SHOWN, THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF HOFFMAN ESTATES AND STREAMWOOD

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

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.

OF 9:00 AM AND 4:00 PM.

STANDARDS

PLAN NOTES

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.

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

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

DRAINAGE 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 TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT SYED BILGRAME, AREA TRAFFIC FIELD ENGINEER AT (773)-685-8386 A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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 ON WHICH THE HMA MIXTURE IS PLACED.

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

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS-RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS CREATER THAN 40 MPH (80 Km/n), WITH WRITTEN APPROVAL OF THE ENGINEER. A MAXIMUM GRADE DIFFERENTAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

THE ENGINEER WILL CONTACT THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171 AT LEAST 7 DAYS PRIOR TO SEEDING, CLASS 44 (MODIFIED) AND PERENNIAL PLANT LAYOUT FOR APPROVAL OF SEED AND PERENNIAL LAYOUT.

WHEN CONSTRUCTING SIDEWALK RAMPS FOR THE HANDICAPPED (STATE STD. 424001) USE TYPE 'B' UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE, NO WORK OS TO BE PERFORMED (OTHER THAN ROOT PRONONG), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND NO INTRUSION, THE SIGNIS) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGNIS) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS, SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE RDADSIDE DEVELOPMENT UNIT AT 1847)705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT, THE COST OF PICKING UP. ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATLY, BUT SHALL BEINCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.

PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG SHALL ALL BE SCHIZACHYRIUM SCOPARIUM ILITTLE BLUESTEMI.

TEMPORARY FENCE SHOULD BE ERECTED AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED, MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WOTHIN THE "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

* THE LANE CLOSURES ON BARRINGTON ROAD WILL ONLY BE ALLOWED WHEN NECESSARY BETWEEN THE HOURS

FILE NAME :	USER NAME 2 drivakasgn	DESIGNED -	REVISED -			INDEX	STAMBAR	ne a cr	ENEDAL MOTE	9	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE * 188,8868 1/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	BARRINGTON RD. AT BODE RD.				1000			T NO. 60196		
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50100100	REMOVAL OF EXISTING STRUCTURES	EACH		1	1. 2191756		Age of the control of	of the state of th		40603595	POLYMER ! ZEO	HOT-MIX ASPHALT SURFACE	TON	528	528	I. SIGNALS	E, ¥.F.		***************************************	
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20101000	TEMPORARY FENCE	FOOT	750	750	Terrefronting to the endemodern															
		that the desire at the second								42001300	PROTECTIVE C	COAT	50 YO	207	207					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE	Cu YD	397	397		-	·													
	MATERIAL									42400200	PORTLAND CEM	MENT CONCRETE SIDEWALK 5 INCH	SQ FT	180	180					

20400800	FURNISHED EXCAVATION	CU YD	295	295									***************************************							
										42400800	DETECTABLE W	YARN INCS	SO FT	20	20					
20800150	TRENCH BACKFILL	CU YD	49	49																
										44000159	HOT-MIX ASPH	HALT SURFACE REMOVAL. 2 1/2"	SQ YD	4891	4891					
21101635	TOPSOIL FURNISH AND PLACE, 9"	sa yo	1018	1018																
										54213675	PRECAST REIN	FORCED CONCRETE FLARED END	EACH	1	1					
25000210	SEEDING, CLASS 2A	ACRE	0.15	0.15							SECTIONS 30"									
		distribution distr										. , , , , , , , , , , , , , , , , , , ,								
25100630	EROSION CONTROL BLANKET	SO YD	1018	1018						550A0140	STORM SEWERS	. CLASS A. TYPE 1 30"	FOOT	82	82					
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28000400	PERIMETER EROSION BARRIER	FOOT	450	450	and the state of t					55106025	STORM SEWER	INSTALLATION 12"	FOOT	41	41					
				4	Andrew An					Arman de la companya				ļ						
30300112	AGGRECATE SUBGRADE IMPROVEMENT 12"	SQ YD	647	647						60107600	PIPE UNDEROR	AINS 4"	F00T	500	500				·	ļ
35600704	HOT-MIX ASPHALT BASE COURSE WIDENING, 7"	SQ YD	491	491	THE PROPERTY OF THE PROPERTY O					60201340	CATON BACING	. TYPE A. 4'-DIAMETER, TYPE	540						 .	
3300704	NOT THIN ASE THE COURSE BIBLISHO, I	30 10	431	721		*******		**********		60201340	24 FRAME AND		EACH	5	5					
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	8, 5	8.5						Approximation and a second and	C. S FORE WALL									-
	FLANGEWAYS		-						-	60203905	CATCH BASINS	. TYPE A, 5'-DIAMETER. TYPE	EACH		1					
			<u> </u>			10.00				-	1 FRAME, CLO			•	•		A CONTRACTOR OF THE CONTRACTOR	,		
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	226	226	III, III, III, III, III, III, III, III					Total desired and the second s			Tarakan da wasan da w			······································				
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40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	104	104					The state of the s	60300105	FRAMES AND G	RATES TO BE ADJUSTED	EACH	6	6	***************************************	distribution			
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60500040	REMOVING MANHOLES	EACH	1	l	A series of the	A S A S A S A S A S A S A S A S A S A S			70400100	TEMPORARY CONCRETE BARRIER	FOOT	500	500	1, JIGHALS				
60500050	REMOVING CATCH BASINS	EACH	41	41	THE PROPERTY OF THE PROPERTY O	- Andrews	THE REAL PROPERTY OF THE PERTY		72000100	SIGN PANEL - TYPE 1	SQ FT	12		12	***************************************			
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE,	EACH	2	2	The state of the s	deliterate del del del del del del del del del de		THE STATE OF THE S	72000200	SIGN PANEL - TYPE 2	SO FT	20	20					
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									-78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	214	214					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		A de des de la constante de la			•	LETTERS AND SYMBOLS								
67100100	MOBILIZATION	L SUM		1		THE REAL PROPERTY OF THE PERSON OF THE PERSO			* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FQOT	2363	2363					-
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70300100	SHORT TERM PAVEMENT MARKING	FOOT	993	993		1	and the state of t		Aprilia de la companion de la			Marine de la constante de la c					**************************************	etainment of the second
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70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SO FT	214	214		ti de traducio de vede continuo de vede		***										
	SYMBOLS								78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	85	85					
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70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2363	2363		-	my-ra-pa-		91029299	LINES DE DATA LA CONTRACTA DE LA CALCANA DE	7207							-
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1075	1075		***************************************	44 - A-1	***	•81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	514		514				Tr describer of the second sec
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70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	141	141		van de transferante anno anno anno anno anno anno anno ann	The state of the s		•81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL.	FOOT	8		8				
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70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	131	131		***********	***************************************	and the second s			***************************************					···		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	581	581		Arranda	And the second s	FIFTH CONTRACTOR CONTR	n	•SPECIATY ITEMS								
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81028220	UNDERGROUND CONDUIT, CALVANIZED STEEL.	FOOT	28		28	Ç	a definition of the state of th	And Annual Assessment of the State of the St	•87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1	NUMBER	I. SIGNALS			· · · · · · · · · · · · · · · · · · ·	
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*81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	125		125				•87800100	CONCRETE FOUNDATION. TYPE A	FOOT	4		4				
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8 5000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	2	<u> </u>	2				·88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	4		4				
	INSTALLATION				Annual transmission of the contract of the con					MAST-ARM MOUNTED								
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¢87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14	FOOT	2825		2825			and the state of t	• 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	4		4				ļ
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*87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT	425		425				·88030110	SIGNAL HEAD. LED, 1-FACE. 5-SECTION.	EACH	4	ļ	4				
	SC							and the state of t		MAST-ARM MOUNTED	The state of the s			***************************************				

*87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT	420		420				88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,	EACH	4		4				
	7C						-	distance of the second		BRACKET MOUNTED WITH COUNTDOWN TIMER	-							
•87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14	FOOT	1145	<u> </u>	1145				- 99103747	DEDECTOLAN CLOUD UEAD A FACE	5.00							<u> </u>
407301303	1 PAIR	F 001	(143		1143				•88102747	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	<u> </u>	2				
										DRACKE MODRIED WITH COURTDOWN TIMER	eriteranis							
•87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	1350		1350				• 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED.	EACH	8		8				
	CROUNDING CONDUCTOR, NO. 6 1C									ALUM(NUM		,		¥				
									***			And the second s	THE PROPERTY OF THE PROPERTY O	-				
•87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	1	-		~			•88500100	INDUCTIVE LOOP DETECTOR	EACH	1		Annual representation of the second s				
	16 FT.							Angele de la constante de la c					or franchischer der seine sein	***************************************	·····			
	*SPECIATY [TEMS			Andrew Bernstein and Andrew Be					*88600100	DETECTOR LOOP, TYPE I	FOOT	515	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	515				
FILE NAME : clym_workipwldomgogli	USER NAME : gop/londar DES Iondarwore2483-Priorios-un-Sobidor DRA	IGNED -		REVISED REVISED				STATE OF I	ILLINOIS		OF QUANT		£	F.A.P. RTE.	SECT		COUNTY S	TOTAL SHEETS NO.
	PLOT SCALE . 100,0000 1/ In CHE	CKED -		REVISED REVISED	-				RANSPORTA	TION BARRINGTON R SCALE; NONE SHEET NO. OF			O STA.	362			CONTRACT	48 5 NO. 60T96

UBBAN URBAN CONSTRUCTION TYPE CODE CONSTRUCTION TYPE CODE SUMMARY OF QUANTITIES SUMMARY OF QUANTITIES 80% FED 80% FED 80% FED TOTAL 15% STATE HOFFMAN 20% STATE QUANTITIES 20% STATE 2.5% HOFFMAN 2,5% HOFFMAN ESTATES 2,5% STREAM-WOOD CODE NO ITEM UNIT QUANTITIES CODE NO HOFFMAN ITEM UNIT ESTATES ROADWAY . SICNALS ROADWAY T. SIGNALS 88800100 PEDESTRIAN PUSH-BUTTON EACH 8 ×8620200 UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH 89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION EACH *X8710024 FIBER OPTIC CABLE IN CONDUIT, NO. FOOT 1090 62.5/125, MM12F SM24F 89501400 RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT •X8730250 ELECTRIC CABLE IN CONDUIT NO. 20 3/C. FOOT 235 235 TWISTED, SHIELDED **89502210** MODIFY EXISTING CONTROLLER CABINET EACH 3 Z0004562 COMBINATION CONCRETE CURB AND GUTTER 560 560 •89502300 REMOVE ELECTRIC CABLE FROM CONDUIT 7075 7075 REMOVAL AND REPLACEMENT 89502375 REMOVE EXISTING TRAFFIC SIGNAL EACH Z0027800 GEOTECHNICAL FABRIC SQ Y0 647 647 EQUIPMENT Z0030850 TEMPORARY INFORMATION SIGNING SQ FT 52 52 89502380 REMOVE EXISTING HANDHOLE 2 2 Z0033046 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2 i *K0013000 PERENNIAL PLANTS, PRAIRIE TYPE. 2" UNIT 2 DIAMETER BY 4" DEEP PLUG Z0070100 SURVEY MONUMENT COVER ASSEMBLY EACH X0326139 TEMPORARY TRAFFIC SIGNAL. WOOD POLE •Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING EACH X2502014 SEEDING, CLASS 4A (MODIFIED) ACRE 0.06 0.06 X4060110 BITUMINOUS MATERIAL (PRIME COAT) POUND 3632 3632 X6030310 FRAMES AND LIDS TO BE ADJUSTED EACH (SPECIAL) X7010216 TRAFFIC CONTROL AND PROTECTION. L SUM (SPECIAL) FILE NAME : DESIGNED -REVISED TOTAL SHEET SHEETS NO. 48 6 SECTION COUNTY SUMMARY OF QUANTITIES REVISED -STATE OF ILLINOIS 362 0105R-N(12) COOK PLOT SCALE . 100,0000 1/ /4 CHECKED . BARRINGTON ROAD AT BODE ROAD REVISED -**DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60196 PLOT DATE . 5/20/2014 DATE -REVISED -SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

EARTH WORK SCHEDULE

ROUTE: BARRINGTON ROAD F.A.P. 362

SECTION: 0105R - N(12) CONTRACT NUMBER: 60T96 COUNTY: COOK

JOB ID: D-91-504-12

	REMO	OVAL AND DISPOS (AS PER SOIL RE	AL OF UNSUITAE PORT RECOMMEN	BLE MATERIAL DATIONS)	
STATION	END AREA (SQ. FT.)	AVG. AREA (SQ.FT.)	DISTANCE (FT.)	EXCAVATION (UNSUITABLE) (CU.FT.)	QUANTITY CU.FT/27=CU.YD. (CU.YD)
100+00					
100+50	24.8	12.4	50	620.0	23.0
101+00	42.9	33.9	50	1,672.5	62.7
101+60	31.2	37.1	60	2,223.0	82.3
102+00	23.7	27.5	40	1,098.0	40.7
102+50	21.5	22.6	51	1,130.0	41.9
103+00	22.5	22.0	50	1,100.0	40.7
103+08	22.4	22.5	8	179.6	6.7
103+50	18.8	20.6	42	865.2	32.0
104+00	15.5	17.2	50	857.5	31.8
104+35	12.3	13.9	35	486.5	18.0
104+50	11.5	11.9	15	178.5	6.6
105+00	0	5.8	57	287.5	10.7
				TOTAL	396.9
				USE	397.0 CU.YD.

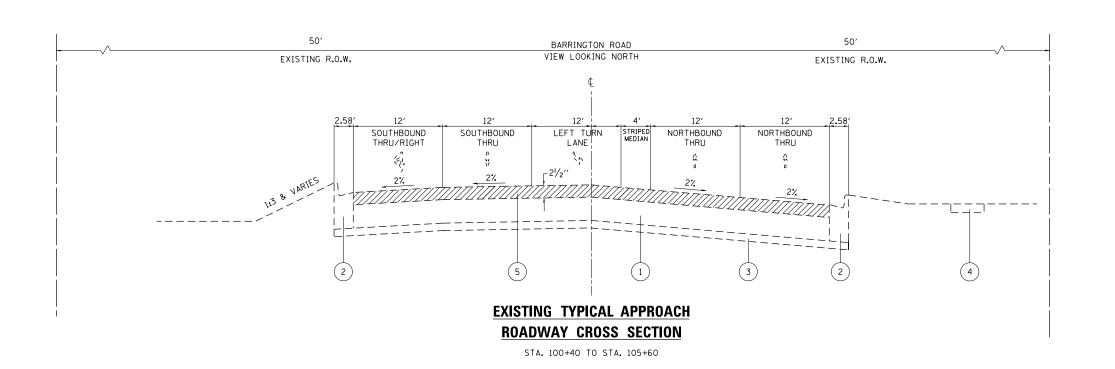
		FURNISHEI	QUANTITY OF FILD EXCAVATION CU.YD.)	L	
STATION	END AREA (SQ.FT)	AVG. AREA	DISTANCE (FT.)	* FURNISHED (EMBANK CU.FT/27	(MENT) = CU.YD.
				CU.FT.	CU.YD.
100+00					
100+50	0	0	0		
101+00	0	0	0		
101+60	13.4	6.7	60	402.0	14.9
102+00	29.1	21.3	40	850.0	31.5
102+50	31.1	30.1	50	1,505.0	55.7
103+00	31.1	31.1	50	1,555.0	57.6
103+08	29.9	30.5	8	244.0	9.0
103+50	31.5	30.7	42	1,289.4	47.8
104+00	16.4	24.0	50	1,197.5	44.4
104+35	5.7	22.1	35	773.5	28.7
104+50	3.2	4.5	15	66.8	2.5
105+00	0	1.6	50	80.0	3.0
			TOTAL	7,963.2	294.9
			USE	295.0	CU.YD.

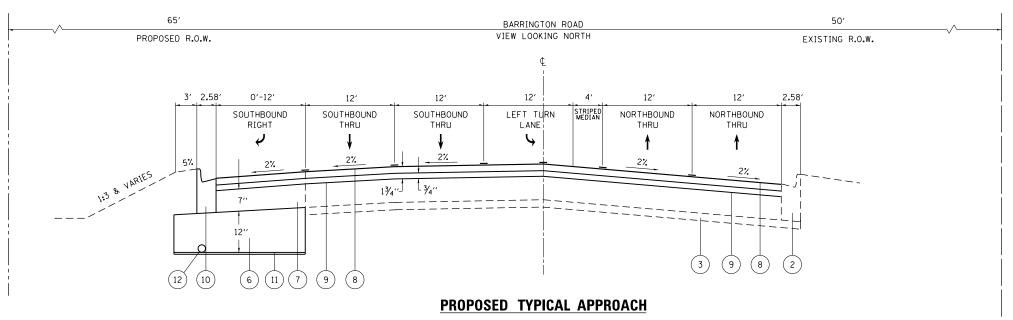
* FURNISHED EXCAVATION = EMBANKMENT - [SUITABLE EXCAVATION (1 - SHRINKAGE FACTOR)]

= 295.0 - [0 (1- 15%)]

EMBANKMENT = 295.0 CU.YD.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -			9	SCHEDIII	F OF OI	ANTITIES		F.A.P	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\gaglianobt\d0182483\P1	70709-sht-schedule.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	BARRINGTON ROAD AT BODE ROAD			1AD	362	0105R-N(12)	соок	48 7		
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			INGION			JAU			CONTRAC	T NO. 60T96
Default	PLOT DATE = 5/9/2014	DATE -	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	





ROADWAY CROSS SECTION
STA. 100+40 TO STA. 105+60

- 1) EXISTING HMA PAVEMENT, 101/2"
- 2 EXISTING COMBINATION CONRETE B-6.24 & GUTTER
- 3 EXISTING SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- 4 EXISTING 5' PCC SIDEWALK

- (5) PROPOSED HMA SURFACE REMOVAL, 21/2"
- 6 PROPOSED AGGREGATE SUBGRADE, 12"
- 7 PROPOSED HMA BASE COURSE WIDENING, 7"
- (8) PROPOSED POLYMERIZED SURFACE COURSE, MIX 'F', N90, IL-9.5mm, 13/4"
- 9 PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75mm, N50, 3/4"
- (10) PROPOSED COMBINATION CONCRETE CURB & GUTTER, B-6.24
- (11) PROPOSED GEOTECHNICAL FABRIC UNDER THE AGGREGATE
- (12) PROPOSED PIPE UNDER DRAIN, 4" (LONGITUDINAL & SLOPE)

HOT MIX ASPHALT MI	XTURE REQUIREMENTS	
MIXTURE USES	DESIGN AIR VOIDS © N _{DES}	ОМР
POLYMERIZED SURFACE COURSE MIX "F", N90, IL-9.5mm, 13/4"	4% @ 90 GYR.	QC/QA
POLYMERIZED LEVELING BINDER (MM), IL-4.75mm, N50, 3/4"	3.5% © 50 GYR	QC/QA
HMA BASE COURSE WIDENING IL-19mm, N90, (7") (HMA BINDER)	4% @ 70 GYR	QC/QA

QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA)

IOTES:

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

AC TYPE NOTE

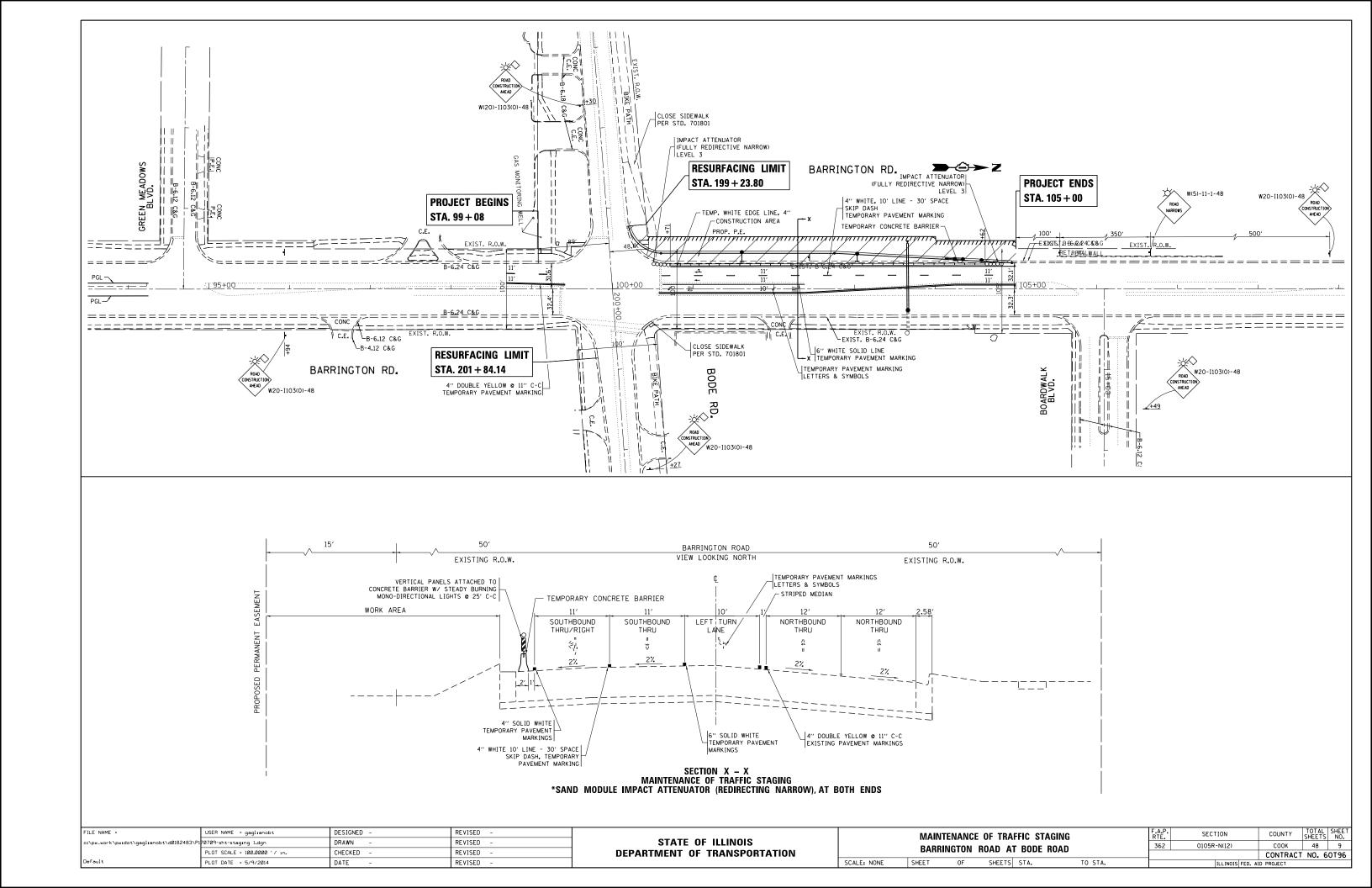
"THE AC TYPE" FOR POLYMERIZED HMA MIXES SHALL "SBS/SBR PG 76-22".
AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-28"
UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS."

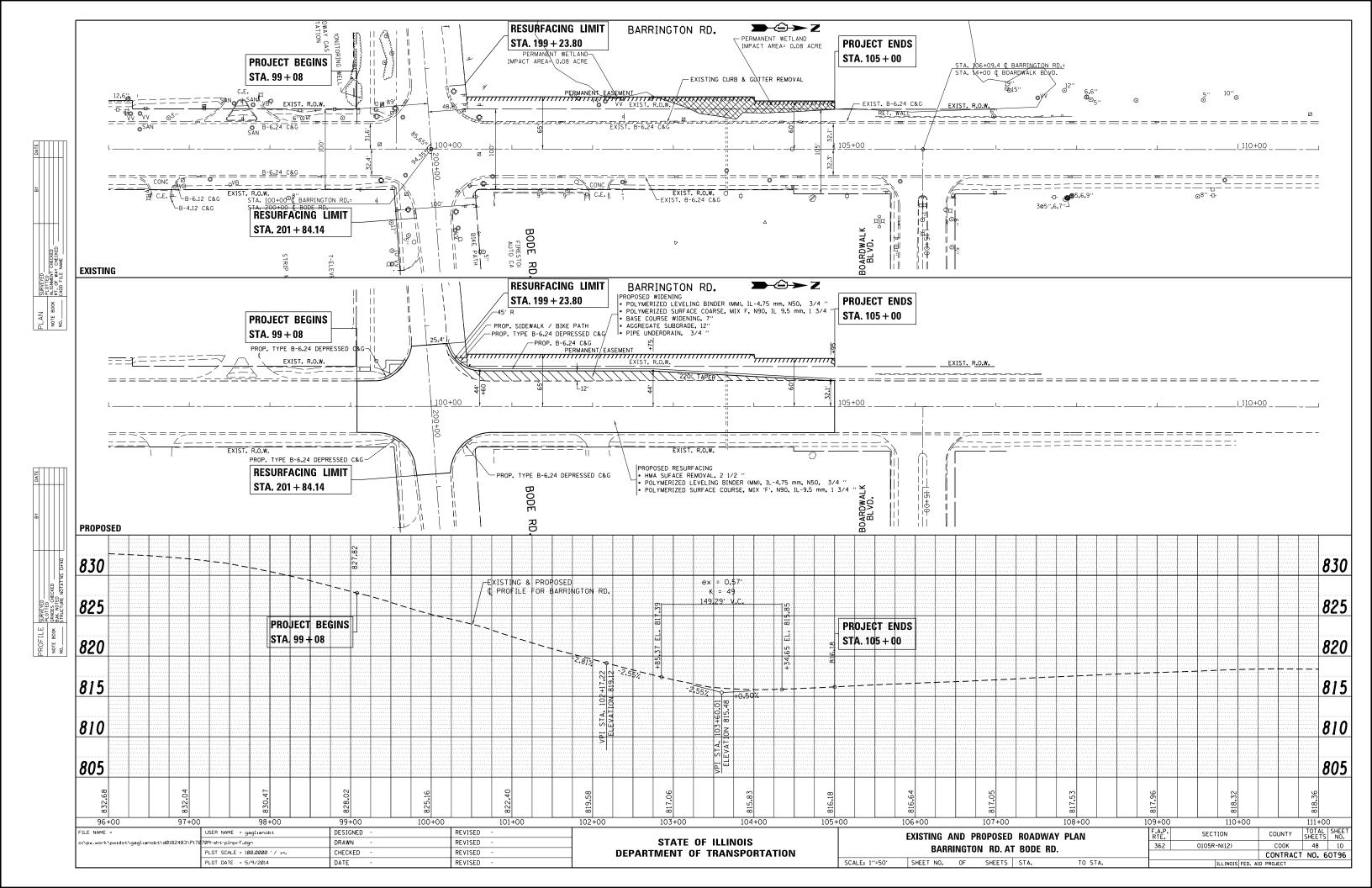
FOR USE OF RECYCLED MATERIALS, SEE DISTRICT ONE SPECIAL PROVISION.

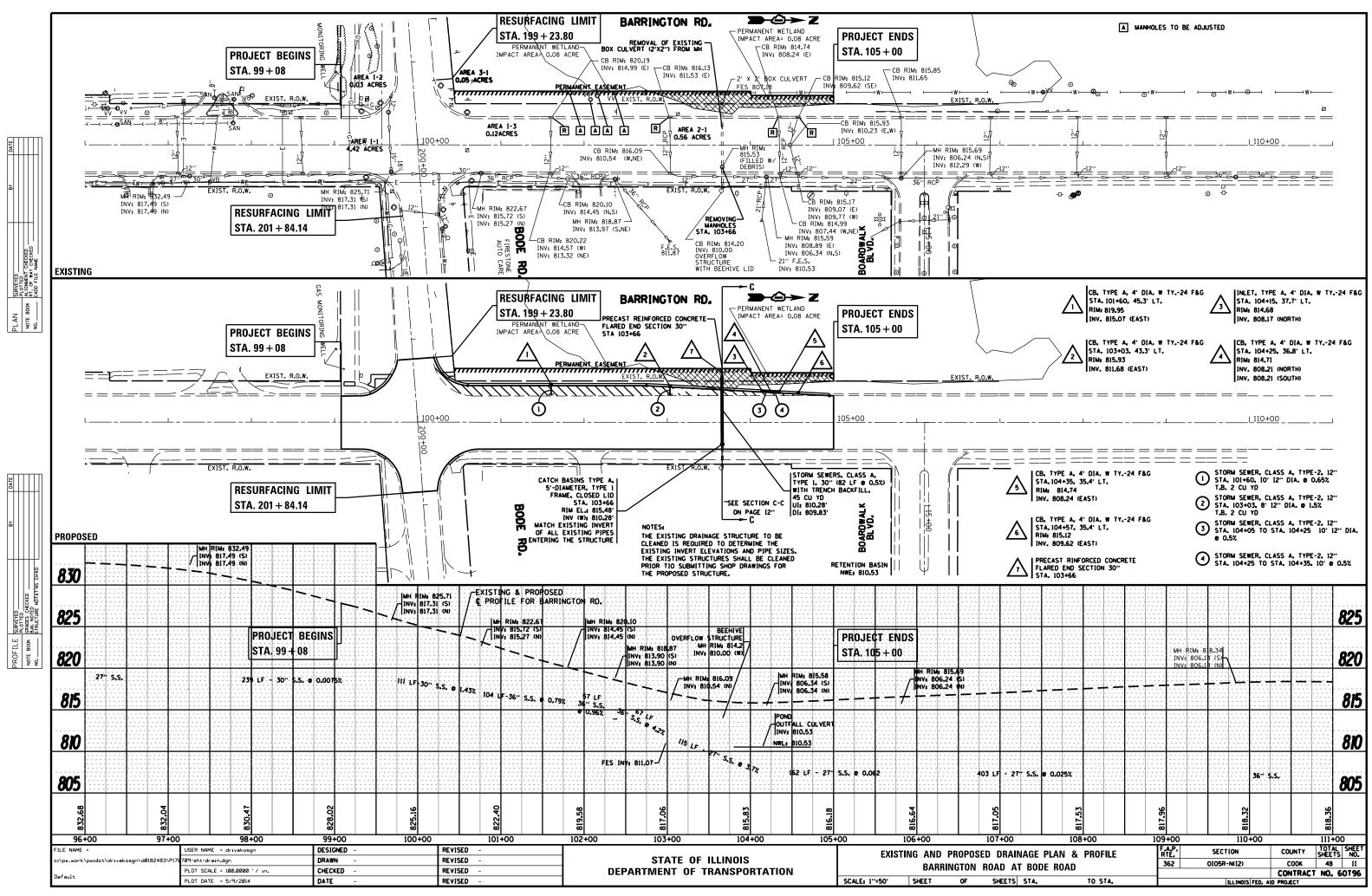
QMP NOTE

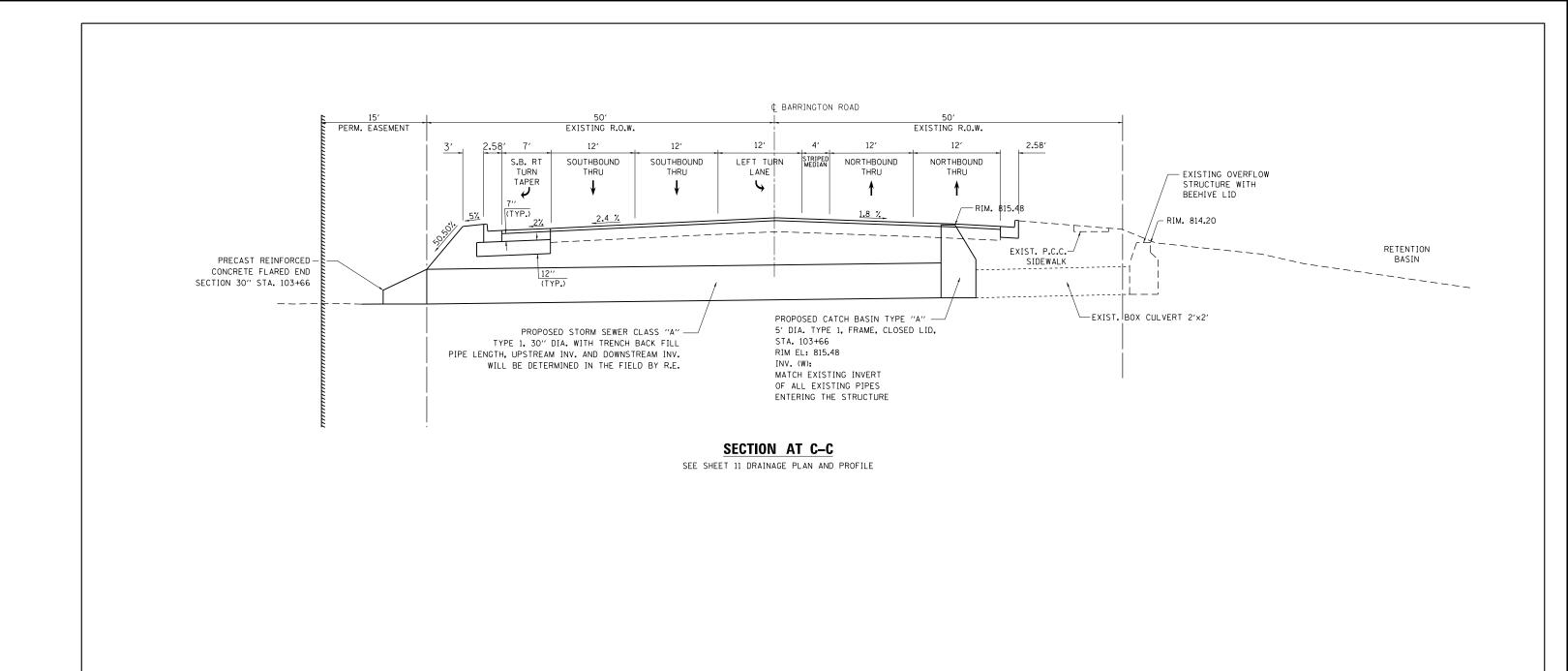
"OUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE"

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -		EXISTING AND PROPOSED TYPICAL CROSS SECTION	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	BARRINGTON ROAD AT BODE ROAD			CONTRACT	T NO. 6	OT96
Default	PLOT DATE = 5/9/2014	DATE -	REVISED -		SCALE: NONE SHEET OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		



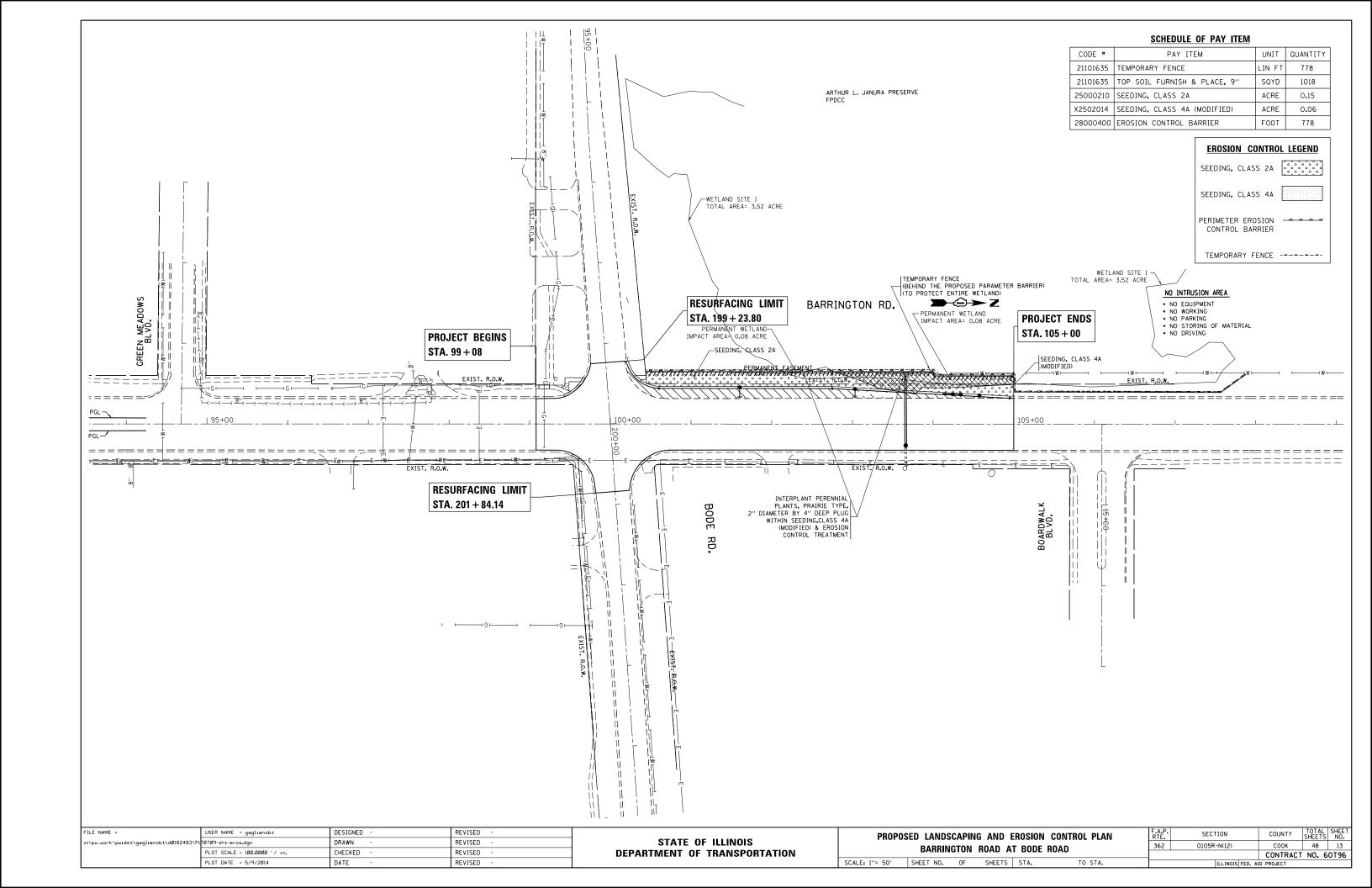


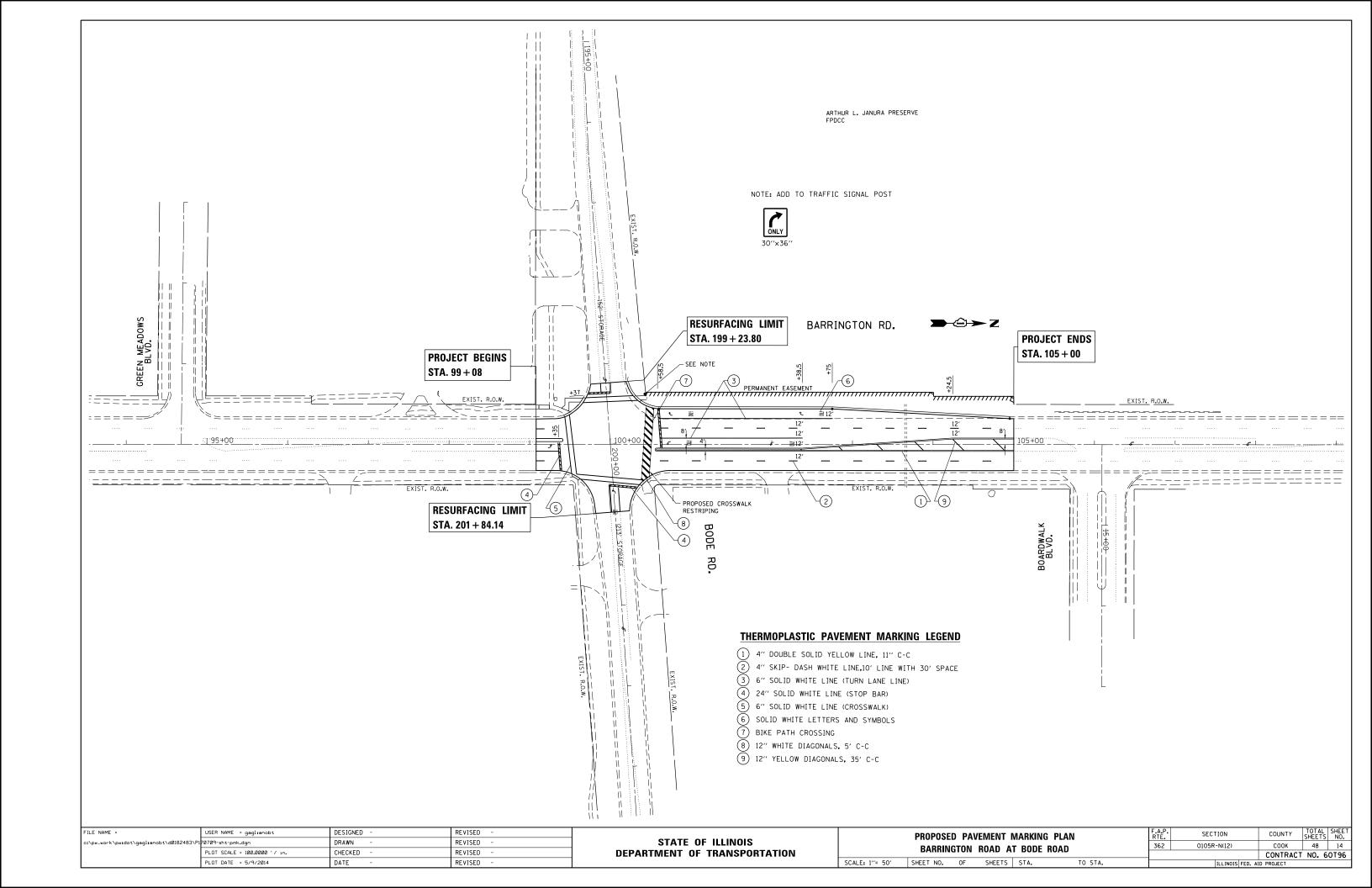


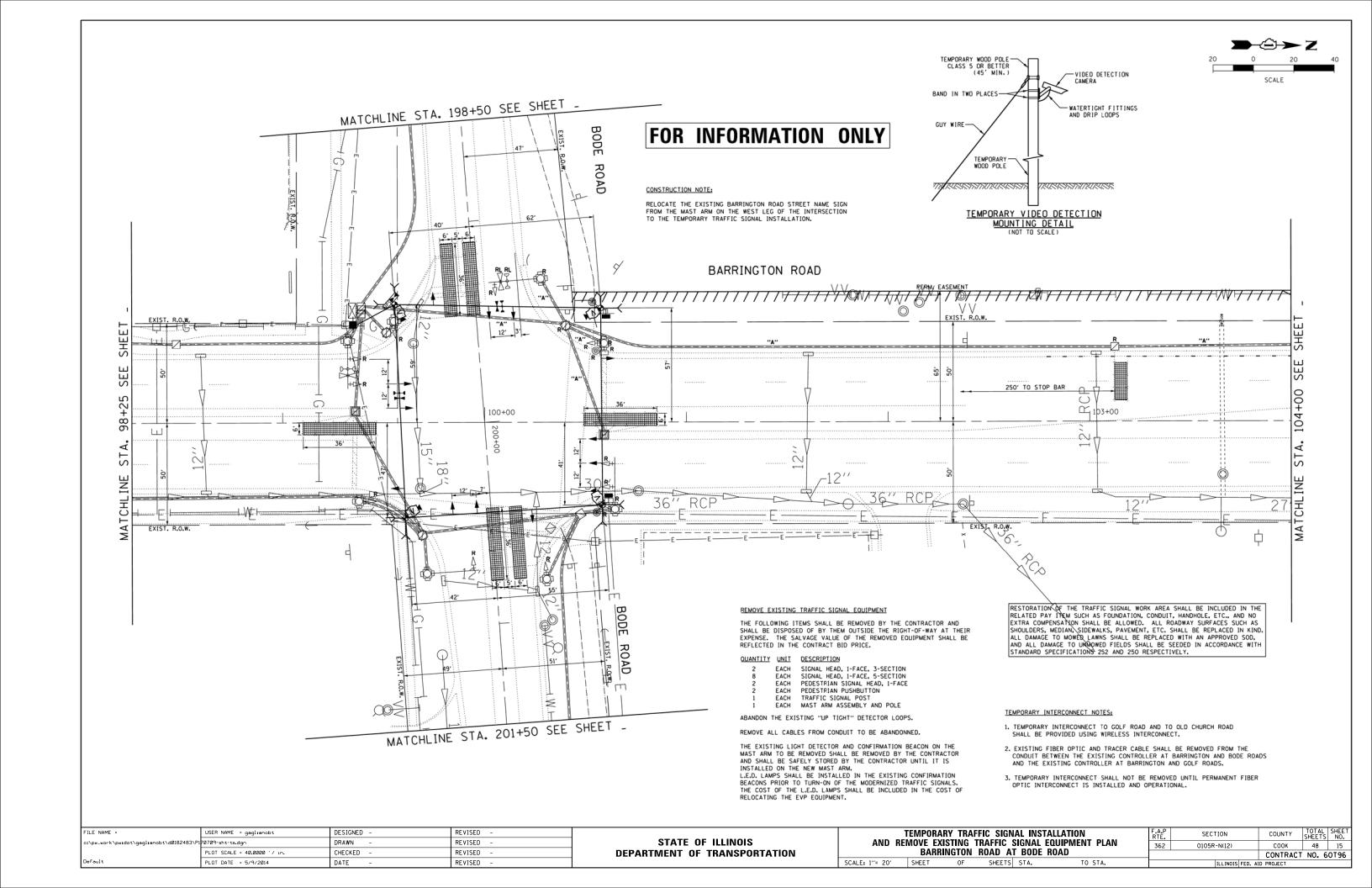


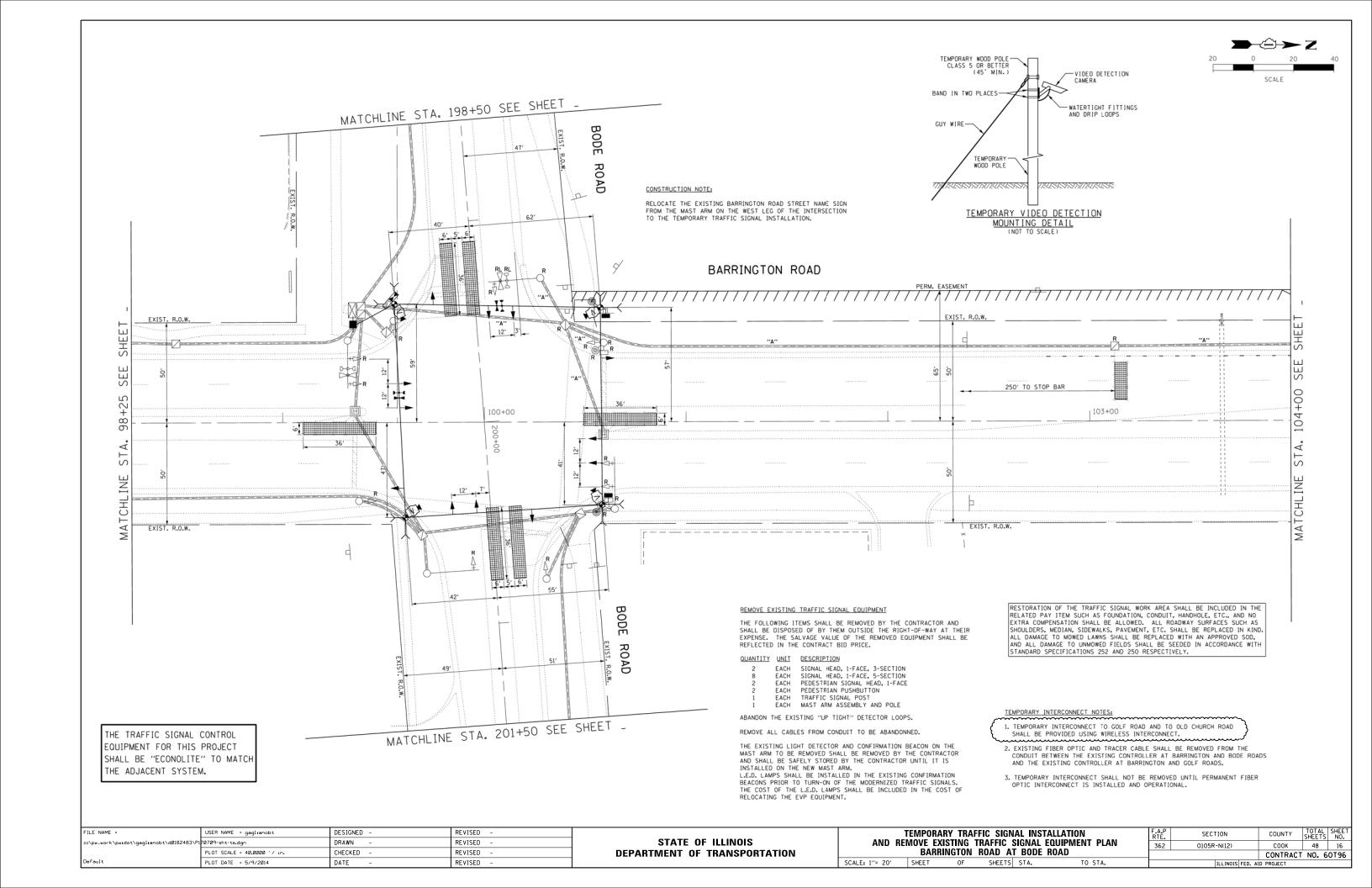
EXIS	TING AND I	PROPOSED	TYPICAL CRO	SS SECTION	F
THRII ROY CI	IIVERT AND	PIPE ON	RARRINGTON	ROAD STA. 103 + 66	
TIMO BOX O	JEVEIII AND	111 - 014	DAIIIIIIIIIII	110AD 01A: 103 1 00	Γ
SCALE: NONE	SHEET	OF SH	HEETS STA.	TO STA.	

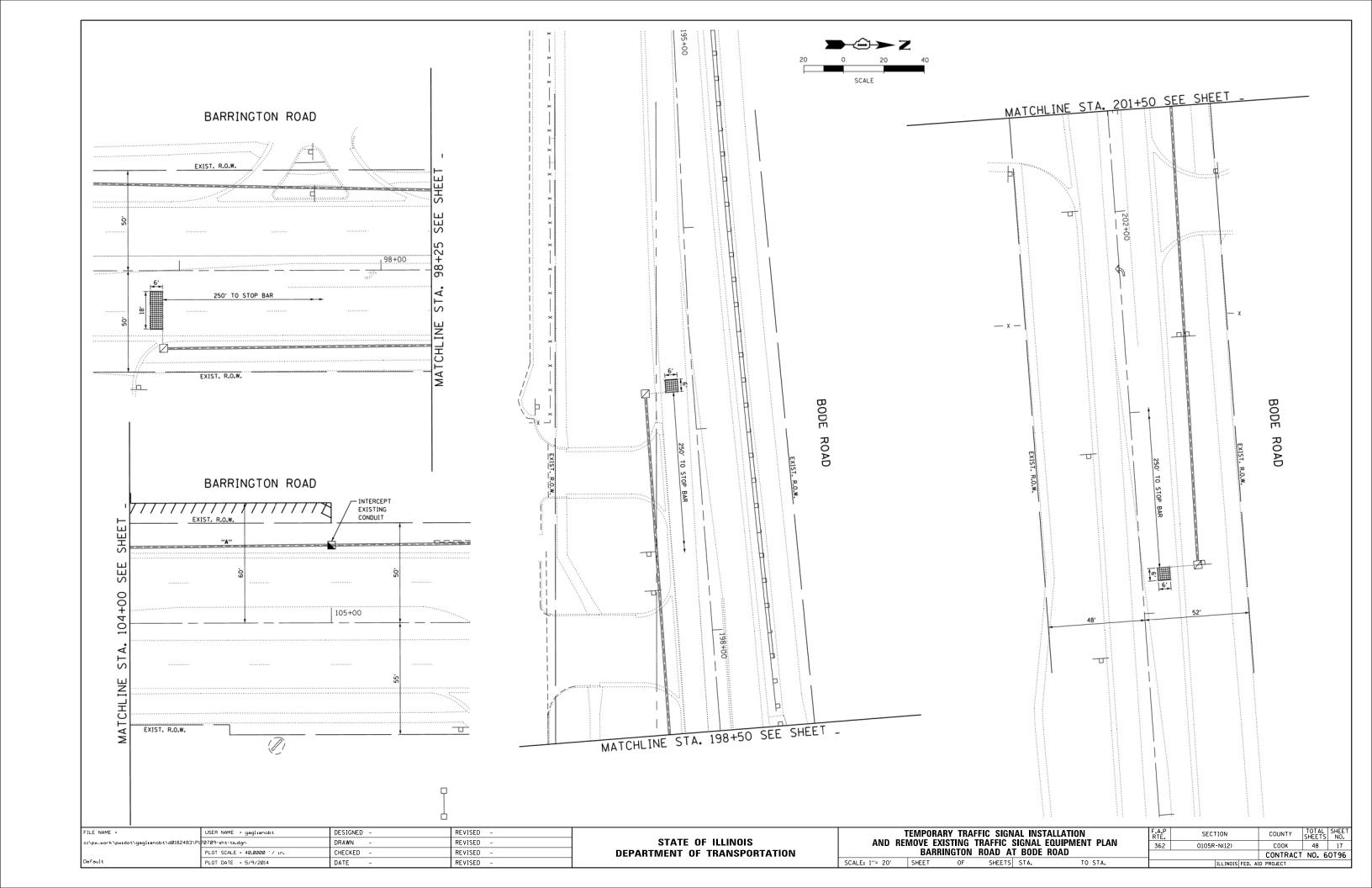
SECTION COUNTY SHEETS 362 0105R-N(12) COOK 48 CONTRACT NO. 6(
RTE. SECTION COUNTY SHEETS 362 0105R-N(12) COOK 48	
RTE. SECTION COUNTY SHEETS	OT96
	12
F.A.P. COUNTY TOTAL	SHEET NO.



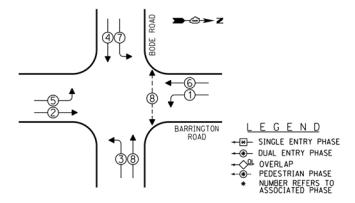






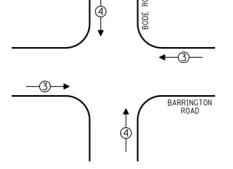






PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMP		6
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	=	↓ ↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS								
		WAT	TAGE		TOTAL WATTAGE				
TYPE	NO. OF LAMPS	NCAND	LED >	% OPERATIONS					
SIGNAL (RED)	12		17	0.50	102.00				
(YELLOW)	12		25	0.25	75.00				
(GREEN)	12		15	0.25	45.00				
ARROW	16		12	0.10	19.20				
PED. SIGNAL	2		25	1.00	50.00				
CONTROLLER	1		100	1.00	100.00				
ILLUM. SIGN			25	0.05					
LUMINAIRE		250		0.50					
VIDEO SYSTEM		150		1.00					
FLASHER				0.50					
ENERGY COSTS TO: TOTAL =									
	VILLAGE OF HOPEWAY SCTATES								

VILLAGE OF HOFFMAN ESTATES 1900 HASSEL ROAD HOFFMAN ESTATES. ILLINOIS 60169

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -
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@ > O - (5)-BARRINGTON ROAD -(7)—(m > (이눗(ţ) 3)---<u>্</u> — লে > তা ই া ই \$\$0<**₽**—7 \$\$0<**₽**—7 **-**(5)**--**(□≺∞ **©**—**2**— ÷ → → → → → \ \ \ \ \ \ \ \ \ \ TEMPORARY CABLE PLAN

→Û→Z

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

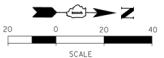
TEMPORARY INTERCONNECT NOTES:

 TEMPORARY INTERCONNECT SHALL NOT BE REMOVED UNTIL PERMANENT FIBER OPTIC INTERCONNECT IS INSTALLED AND OPERATIONAL.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOVED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
AND IEMI	AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE						0105R-N(12)	соок	48	18
BARRINGTON ROAD AT BODE ROAD							CONTRACT	NO. 6	OT96	
SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



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CONTRACT NO. 60T96

COOK

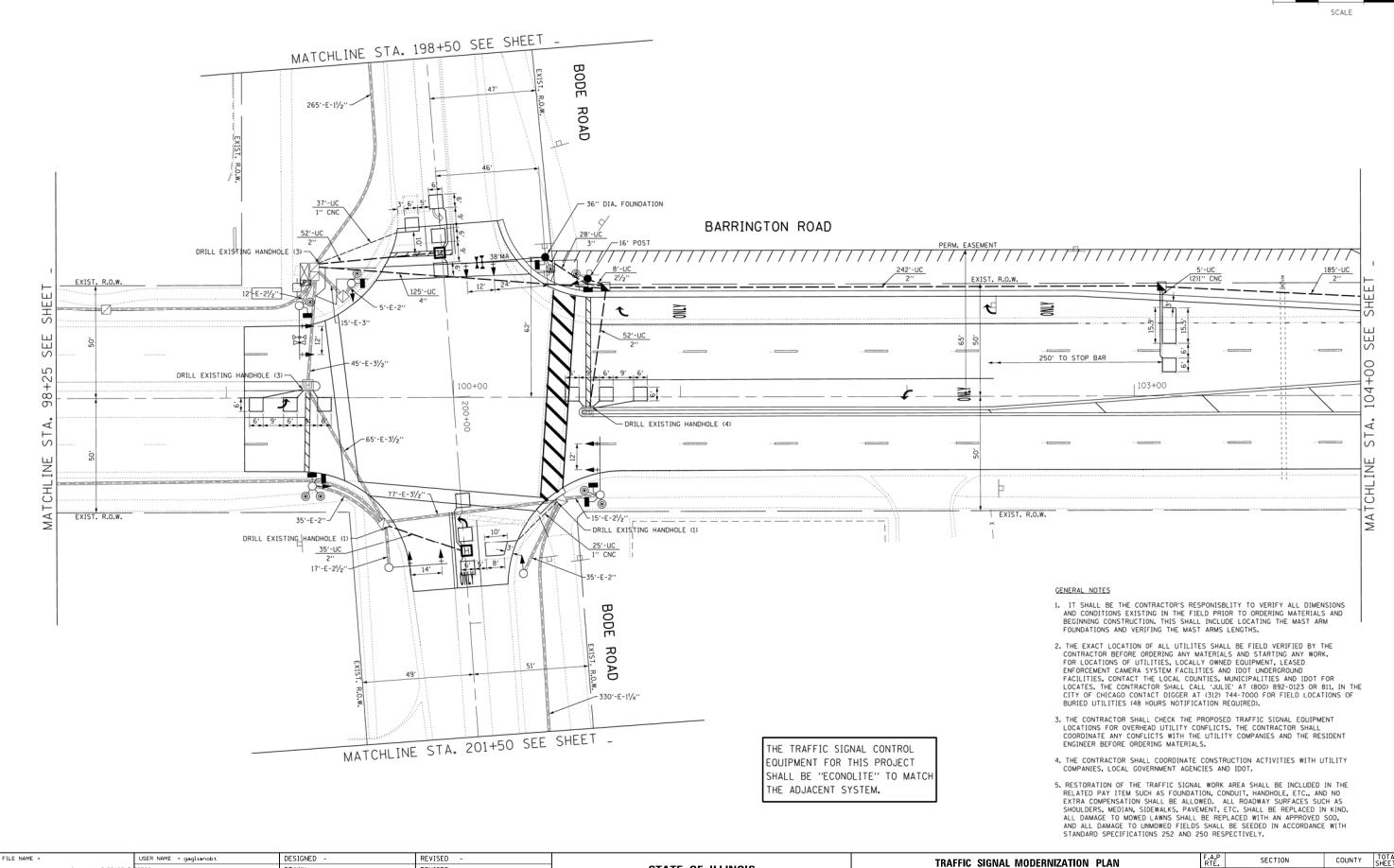
362

BARRINGTON ROAD AT BODE ROAD

SHEETS STA.

SCALE: 1"= 20' SHEET

0105R-N(12)



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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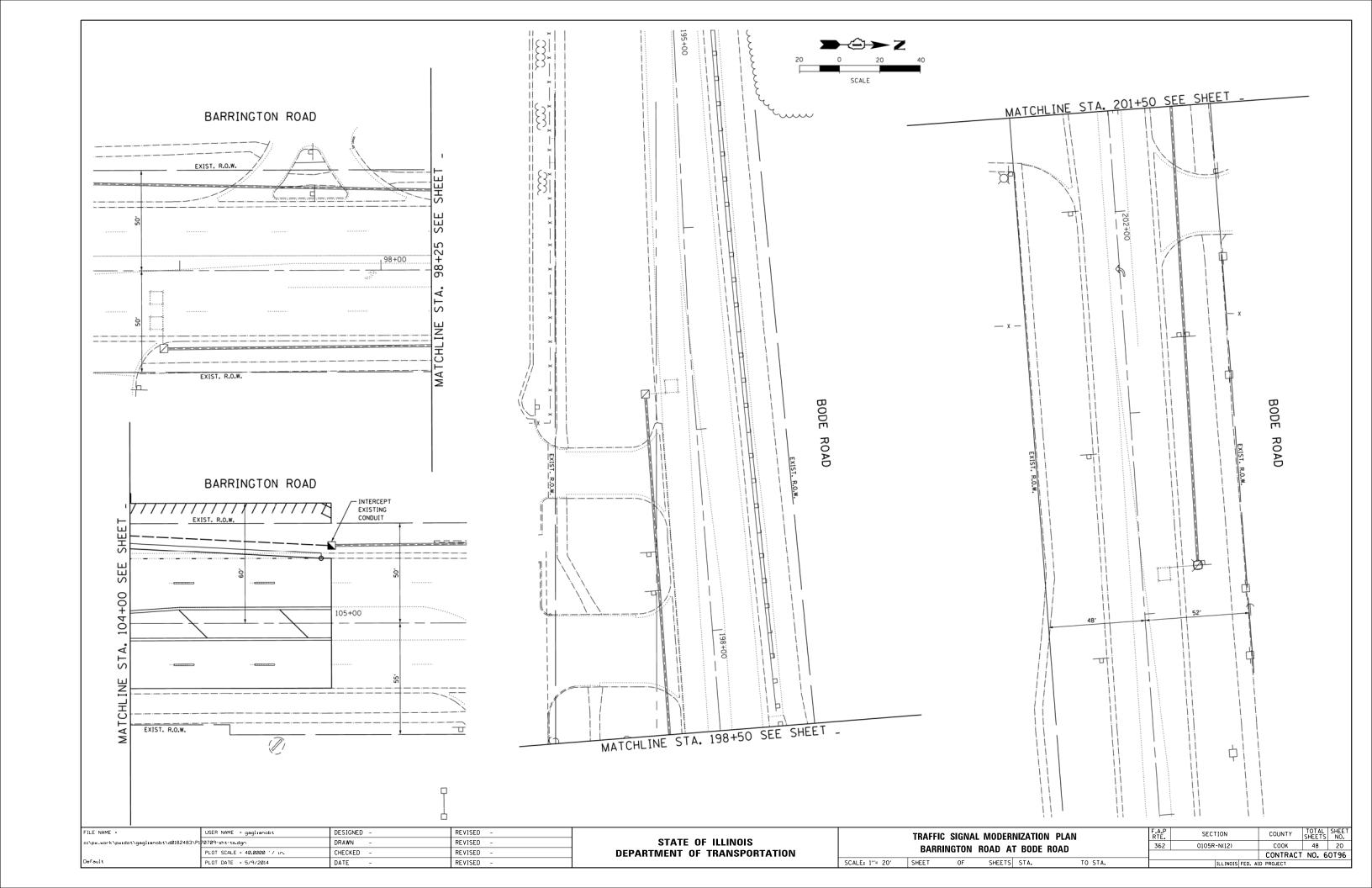
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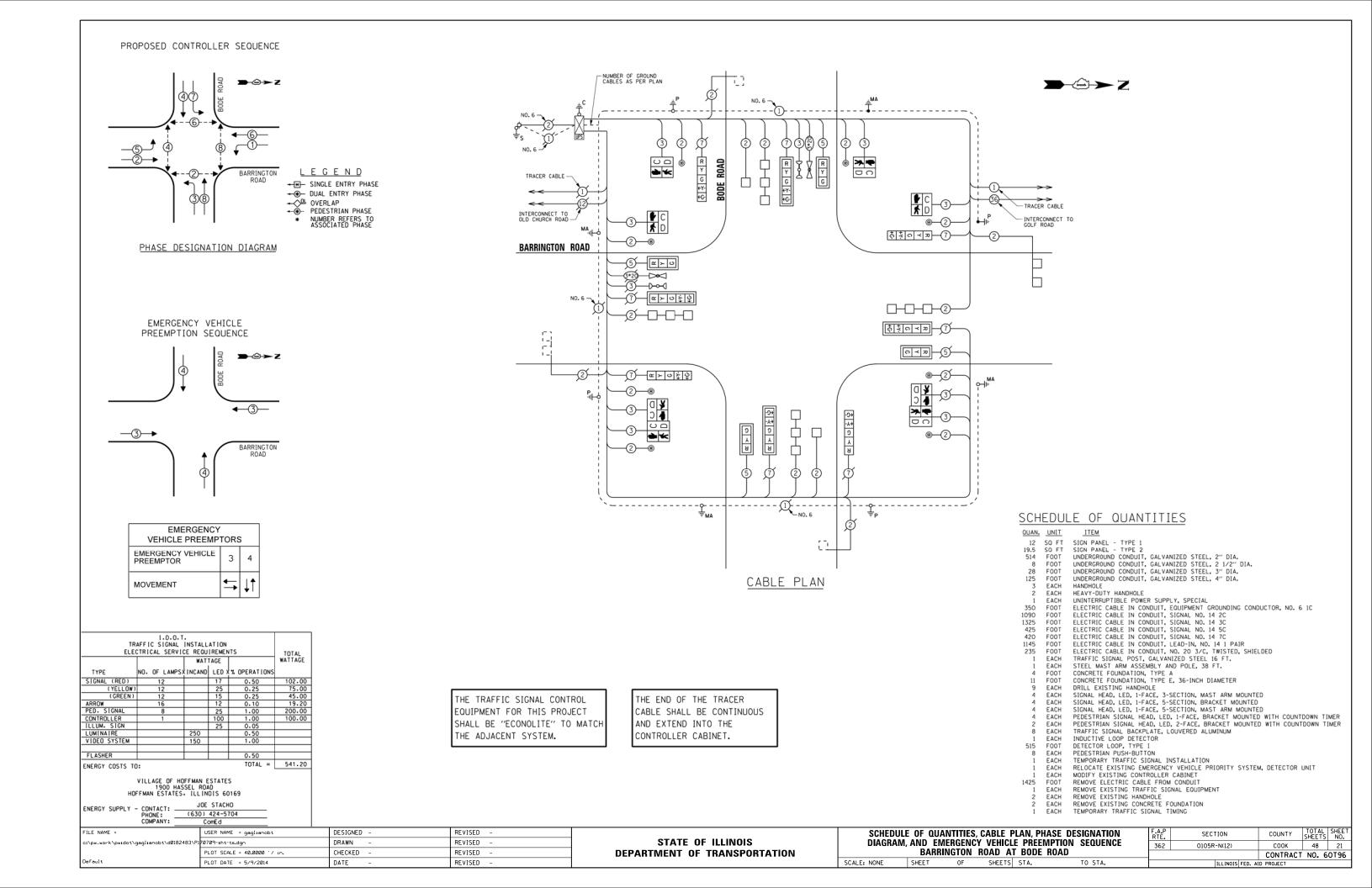
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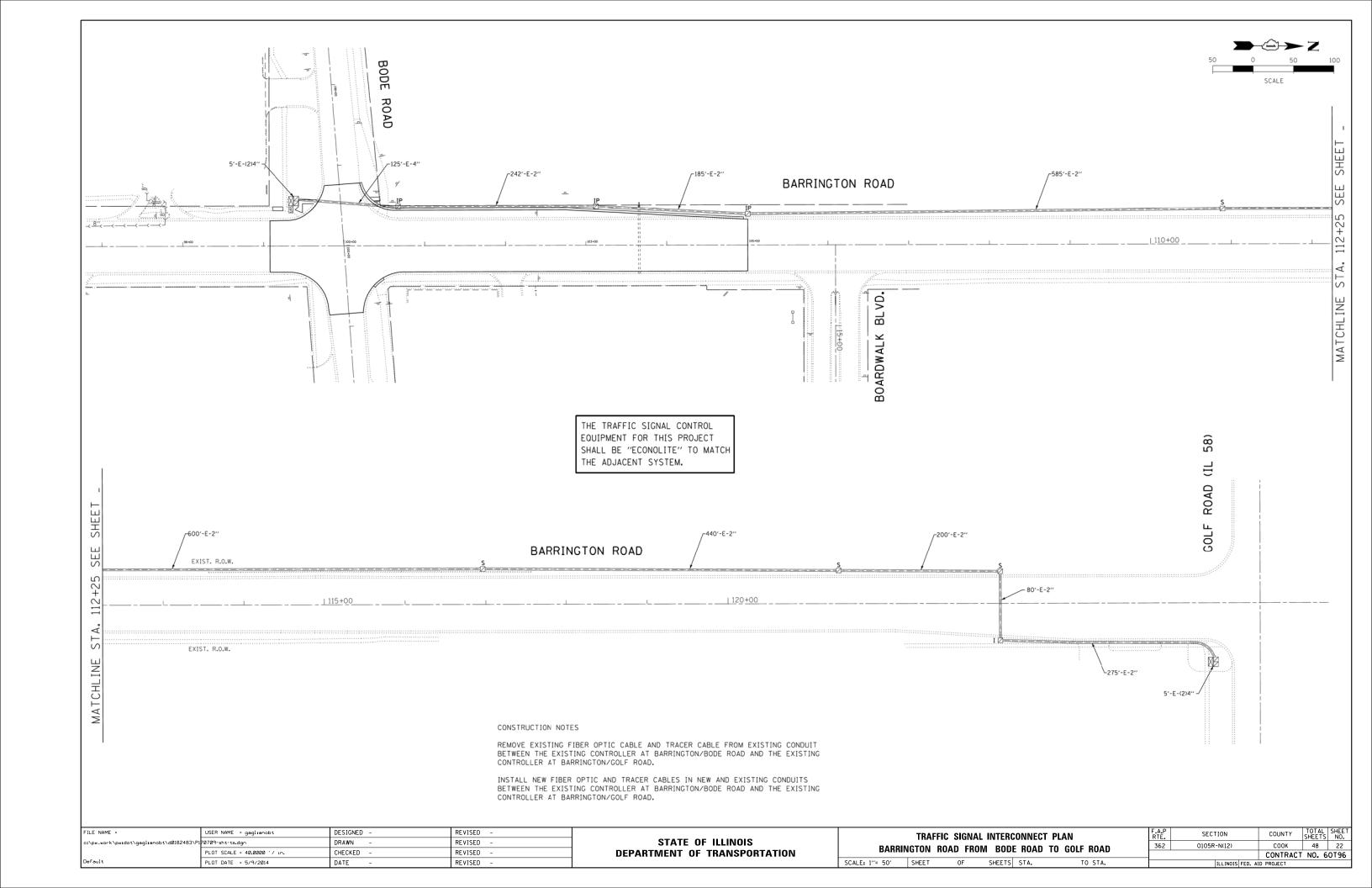
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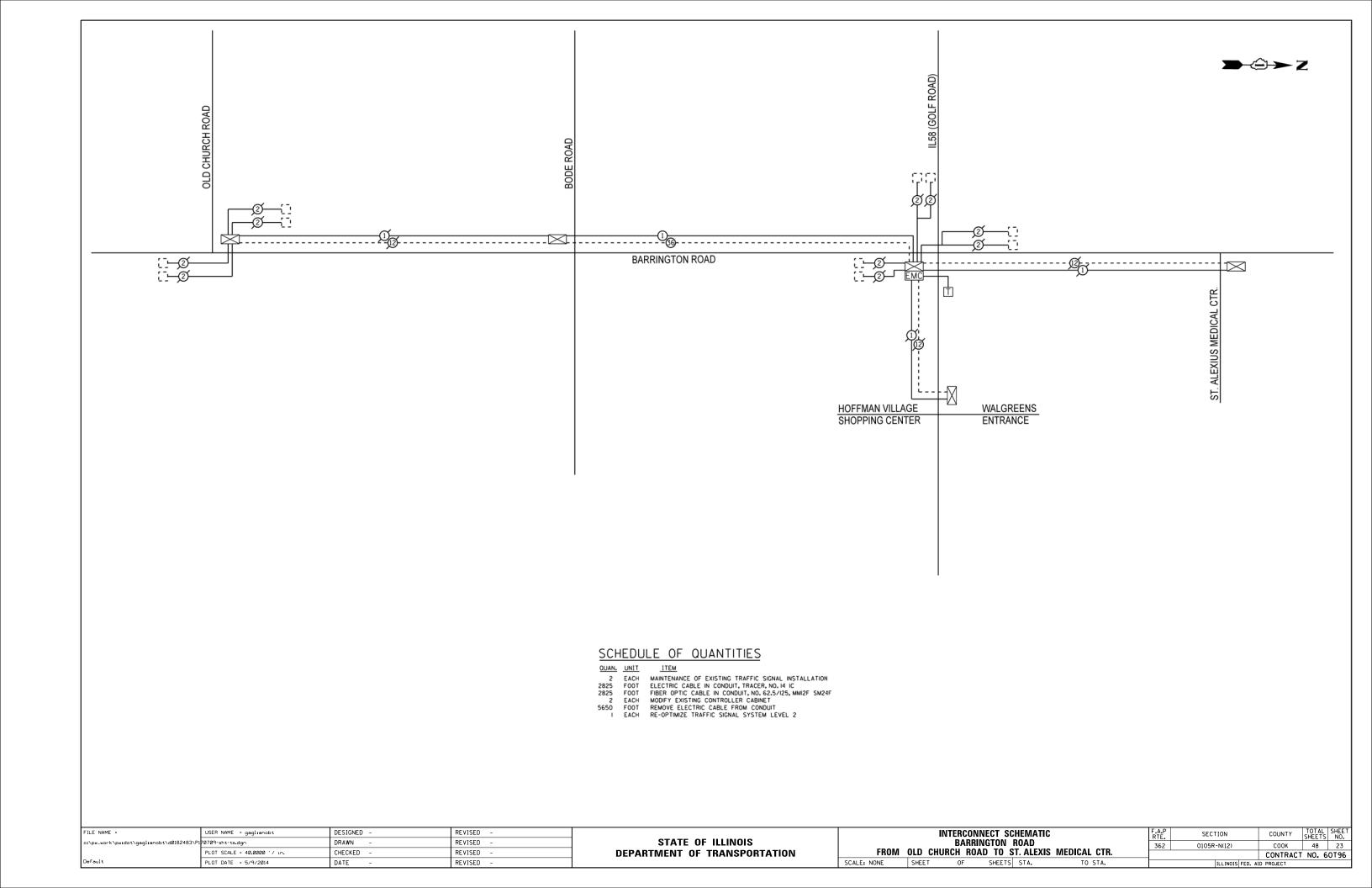
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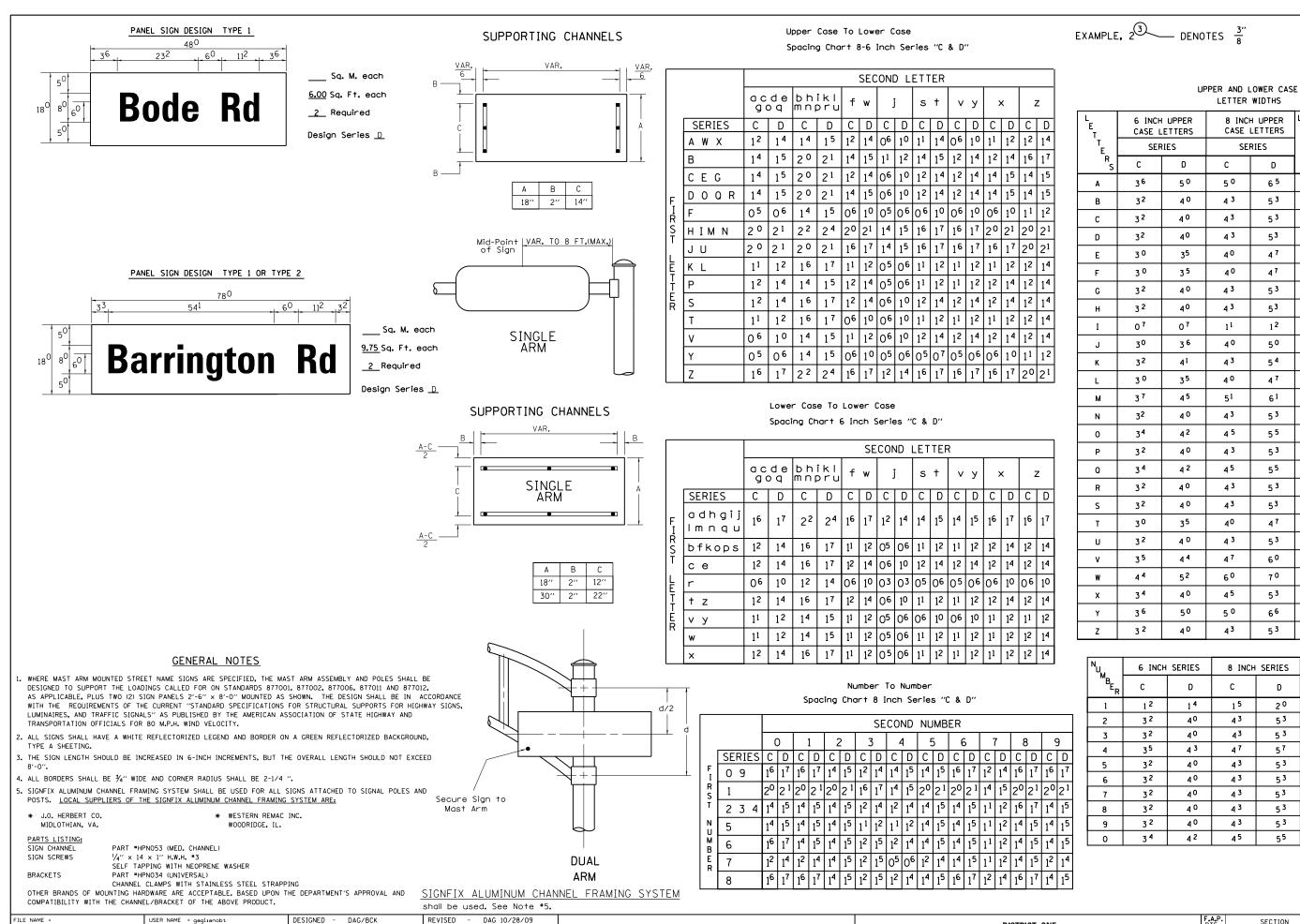
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PLOT DATE = 5/9/2014

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03-15-09

REVISED - LP 01/01/14

REVISED

REVISED

SECTION COUNTY DISTRICT ONE STATE OF ILLINOIS 0105R-N(12) COOK 48 24 MAST ARM MOUNTED STREET NAME SIGNS **DEPARTMENT OF TRANSPORTATION** TS-02 CONTRACT NO. 60T96 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT

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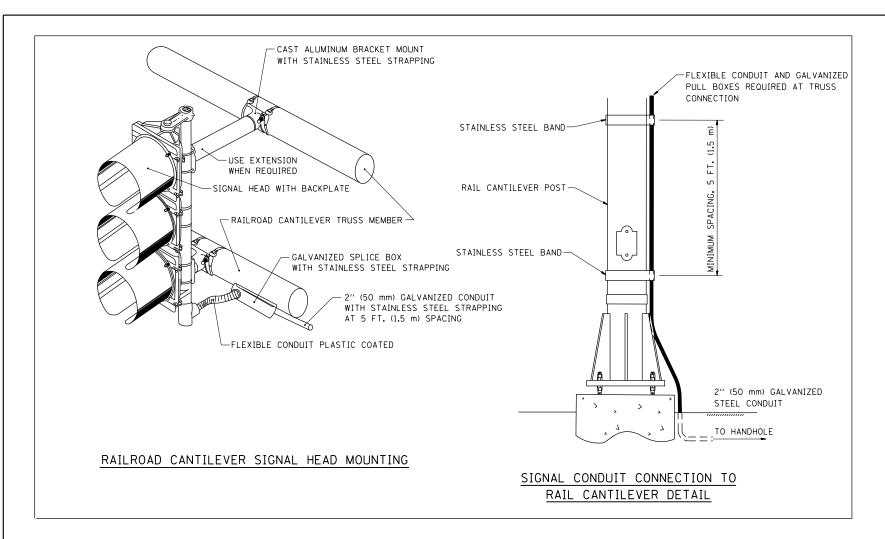
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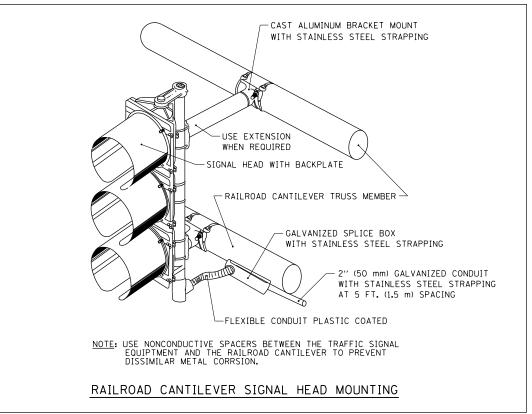
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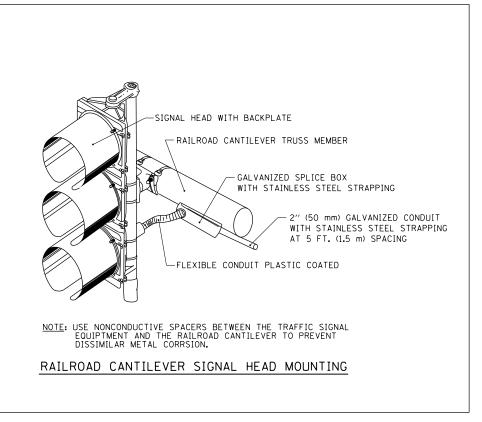
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TRAFFIC SIGNAL LEGEND

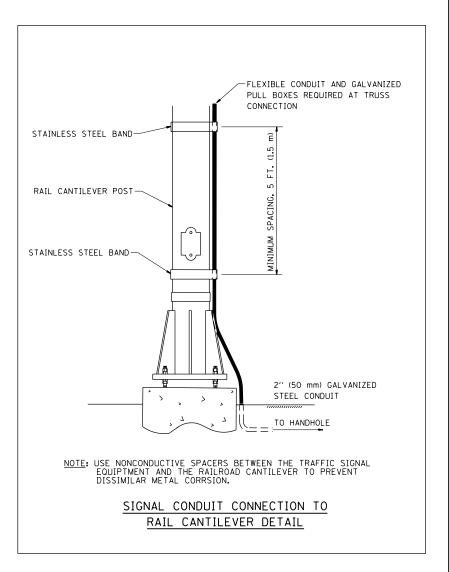
								T			
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R	\bowtie		EMERGENCY VEHICLE LIGHT DETECTOR	R≪	\bowtie	~	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET		₹ \	R ►◆R	CONFIRMATION BEACON	R_{o-0}	0-()	•				_
COMMUNICATIONS CABINET	C C	ECC	СС	HANDHOLE	R □			COAXIAL CABLE		<u> </u>	<u> </u>
MASTER CONTROLLER		EMC	MC	HANDHOLE						\prec	
MASTER MASTER CONTROLLER	Б	EMMC	MMC	HEAVY DUTY HANDHOLE	R	H	H	VENDOR CABLE FOR CAMERA			
UNINTERRUPTABLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u>—</u>	<u>—6</u> —
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-□ ^R	-□ ⁻	- ■ P	JUNCTION BOX	R		0	FIBER OPTIC CABLE		/	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				NO. 62.5/125, MM12F FIBER OPTIC CABLE		— <u>(</u> 2F)— — <u>(</u> 24F)—	—(24F)—
STEEL MAST ARM ASSEMBLY AND POLE	R	O	•	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	_R			NO. 62.5/125, MM12F SM12F		9 -10	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE		<u> </u>	—36F—
STEEL COMBINATION MAST ARM	D	~ ~	• >	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NO. 62.5/125, MM12F SM24F		950	
ASSEMBLY AND POLE WITH LUMINAIRE	"O-> R	0-×	• ×	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		c'll	c∥⊢
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	PTZ)	PTZI	PTZ	INTERSECTION ITEM		I	ΙP	OR (S) SERVICE		1	·
SIGNAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R⊗	\otimes	•	RELOCATE ITEM	RL						
BETTER) 45 FOOT (13.7m) MINIMUM	_	_		ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
GUY WIRE		>	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD	$\stackrel{\leftarrow}{\sim}$	\rightarrow	-	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED	<u></u>		
SIGNAL HEAD CONSTRUCTION STAGES NUMBERS INDICATE THE CONSTRUCTION STAGE)			→ ²	YELLOW AND GREEN TRAFFIC SIGNAL FACE			R	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O–X———		
SIGNAL HEAD WITH BACKPLATE	+C ^R	+1>	+-			$\stackrel{\mathbb{R}}{\longleftrightarrow}$	Y				
SIGNAL HEAD OPTICALLY PROGRAMMED		—[>″P″	→ "P"	SIGNAL FACE			G ◆Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- ▷ ′′F′′	O-t>"F"	● → "F"			◆ C	4 € G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		LIS I	IS
PEDESTRIAN SIGNAL HEAD	R -	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		[s]	S
PEDESTRIAN PUSHBUTTON DETECTOR	R (6)	©	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		() () () () () () () () () ()	Y G +Y	OUEUE DETECTOR		[<u>@</u>]	0
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS O O O O O O O O O O O O O	"RB" INDICATES REFLECTIVE BACKPLATE		₹ 0	 G				
ILLUMINATED SIGN	R (S)		9			"P"	"P"	PREFORMED QUEUE DETECTOR		<u>[PO]</u>	PO
"NO LEFT TURN"		<u> </u>	<u> </u>	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		(W)		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN ''NO RIGHT TURN''	R		(P)	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		• —• • —• • PS [PS PS
DETECTOR LOOP, TYPE I		r -,		INTERNATIONAL SYMBOL, OUTLINED				THE STATE SAME LINE ASSISTEMY DESCRIPTION		1, -1	
		 ? ψ	□	12" (300mm) PEDESTRIAN SIGNAL HEAD		(•	DAILDOAD	CANADA	ni e	
PREFORMED DETECTOR LOOP		1 P 1	Р	INTERNATIONAL SYMBOL, SOLID			Ŕ	RAILROAD	9 TIVIB	JF9	
MICROWAVE VEHICLE SENSOR	R M)	M	(M)	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C C D	₽ C ★ D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R [V]∫	(V)	(V)•	RADIO INTERCONNECT	 	##+	 •	RAILROAD CONTROL CABINET			R►€R
VIDEO DETECTION ZONE						'		RAILROAD CANTILEVER MAST ARM		X oX X X	XeX
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL			
PAN, TILT, ZOOM CAMERA		PZ)	PTZ I	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,				CROSSING GATE		202	X⊕X ►
WIRELESS DETECTOR SENSOR	RW	(W)	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		-/		CROSSBUCK		<u>2∪2</u>	*
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1	S555556N		· ⊔ ·	
LE NAME = USER NAME = gaglianobt \pw.work\pwidot\gaglianobt\d0182450\DistStd.dgn		DESIGNED - DAG/BCK DRAWN - BCK	REVISED REVISED	- DAG 1-1-14 - STATE	OF ILLINOI	 S		DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEETS
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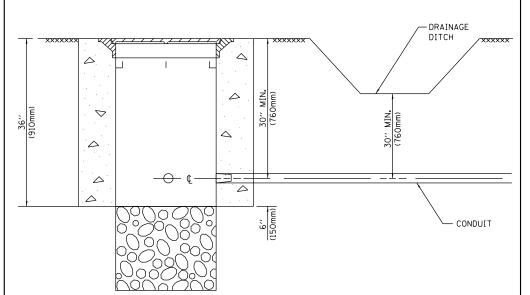


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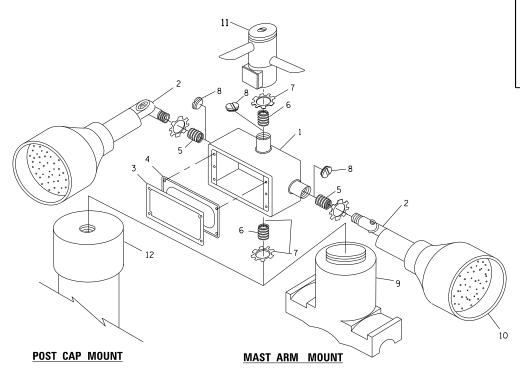
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NOTES:

- 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)



\bigcirc PROPOSED -APRON -CONTROLLER CABINET BASE **TOP VIEW** NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -_GROUND CLAMP / EXISTING ANCHOR BOLTS 1''(25mm) BEVEL GRADE LINE (300mm) (300mm) -EXISTING CONDUITS EXISTING GROUND ROD

(1675mm)

40.75"

(1035mm)

5.375"

(136mm)

(915mm) 19**.**875''

(504mm

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

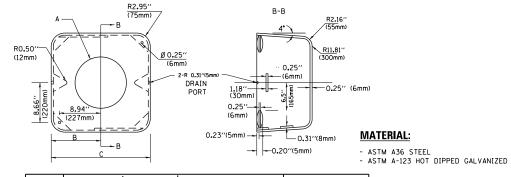
(NOT TO SCALE

ITEM NO. IDENTIFICATION 1 OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 ¾''(19 mm) CLOSE NIPPLE 7 ¾''(19 mm) LOCKNUT 8 ¾''(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES

- 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
- POST CAP MOUNT

 MAST ARM MOUNT

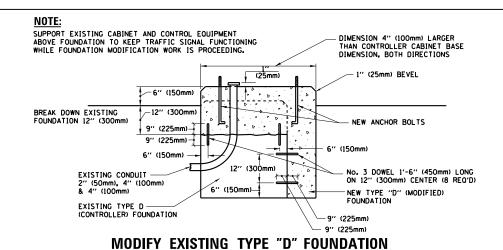


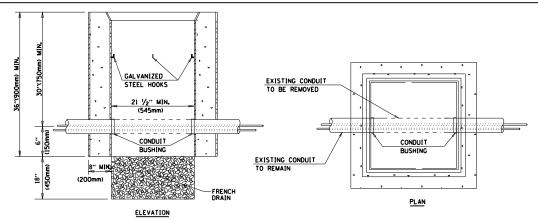
A	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5''(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs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

SHROUD

NOTES

- 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.





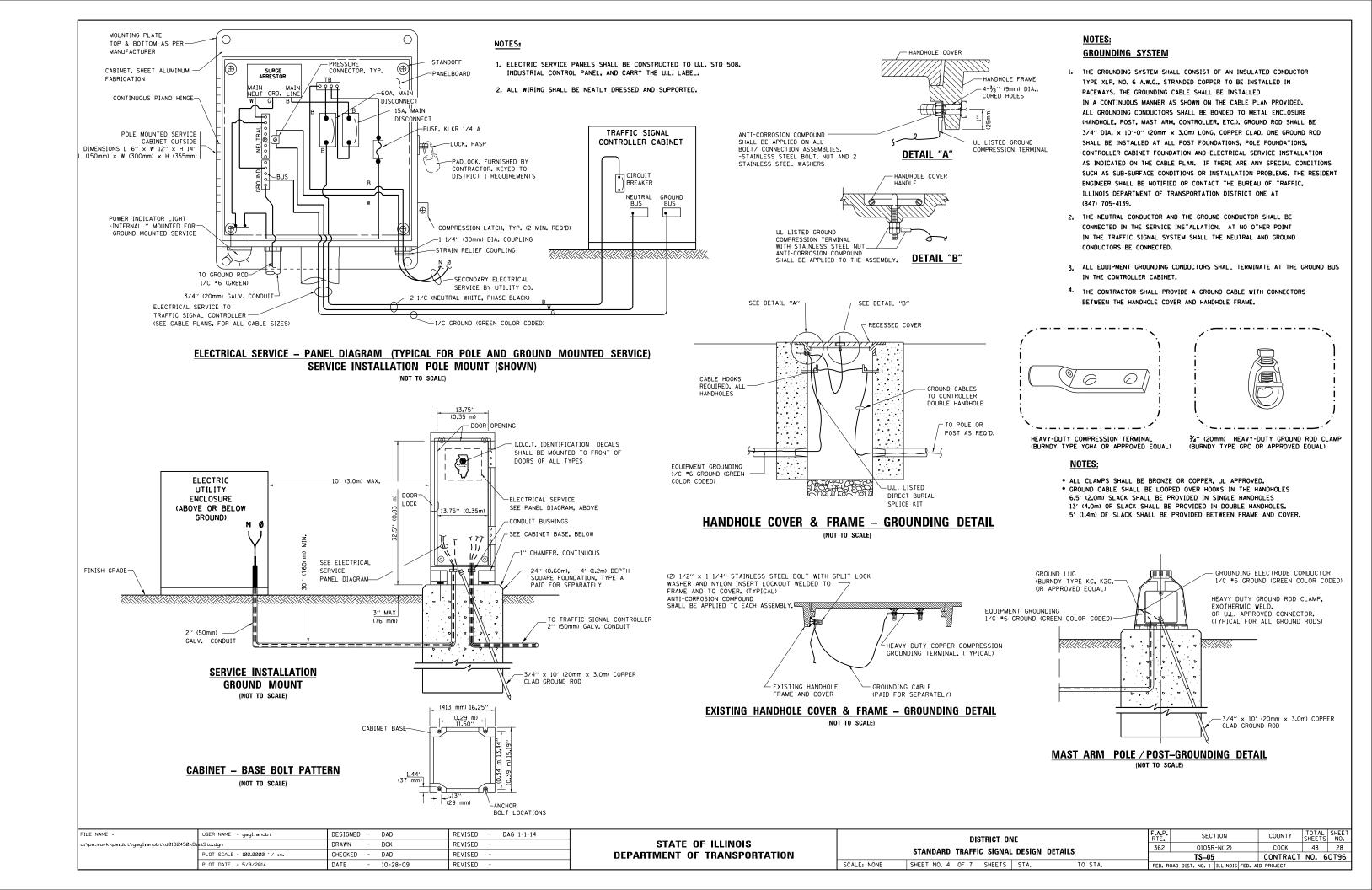
NOTES:

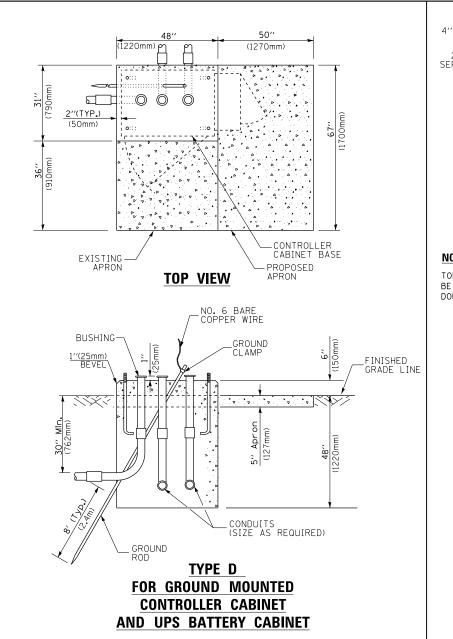
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

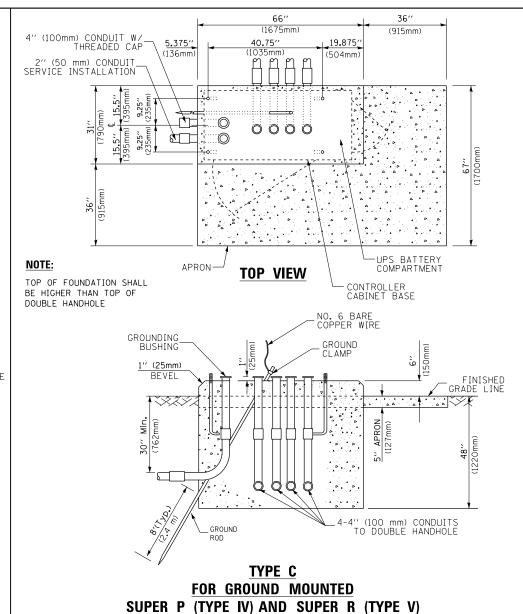
HANDHOLE TO INTERCEPT EXISTING CONDUIT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
					362 0105R-N(12)		COOK	48	27	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS							TS-05	CONTRACT	NO. 6	OT96
NE	SHEET NO. 6	OF 7	SHEETS	STA.	TO STA.	FED. RO	DAD DIST, NO. 1 ILLINOIS FED. AI	D PROJECT		







CONTROLLER CABINETS

	(1651mm)	
SEE NOTE 5	49" (SEE NOTE 3) (1245mm)	
	44" 16"	-
2 	(406mm)
T + + + + + + + + + + + + + + + + + + +		<u>.</u>
		14
31,″ (787 mm) 660mm)	(64mm) - 55 5 1	N/
31." (787 mm. 660 mm.	1 1''	<u> </u>
		#L/
<u> </u>	+	⊉ /
2″, (51mm)		2" × 6"
2 511		WOOD FRAMING (TYP.)
165	7	WOOD TRAMING (TTT.)
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		<u>L</u>
TRAFFIC SIGNAL	- []	1 [
CONTROLLER CABINET		I
		UPS CABINET
		one in a
3/4" (19mm) TREATED		1
PHYWOOD DECK		
2" v 6" (51mm v 152mm)	: : : : : : : : : : : : : : : : : : : :	ૣ ૣ૽ૺૺૺૺ
2" <u>× 6" (51mm × 152mm)</u> • TREATED WOOD		
_ 	 	_ ! _'
2" MIN 305mm)		
2 2 2		
<u>3/12</u>		7
, \^		^
ZI ĝe l' / l	i , i . i , i	
48" MIN (1219mm)		
(12/8)	- 77 77	
`↓ ⁻ i i	t t j	
6" × 6" (152mm × 152mm)		
TREATER WOOD BOSTS	L J	
NOTES:		
. BASED ON CONTROLLER CABINET TYPE IV WITH B	ASE DIMENSIONS OF 26" × 44" (6)	50mm × 1118mm).
ADJUST PLATFORM SIZE TO FIT CABINET BASE D	IMENSIONS BEING SUPPLIED	
BASED ON CONTROLLER CABINET TYPE IV WITH B ADJUST PLATFORM SIZE TO FIT CABINET BASE D	ASE DIMENSIONS OF 26" x 44" (6) IMENSIONS BEING SUPPLIED	bOmm x III8mm).
	NET WITH DACE DIMENSIONS OF 16	254 /406 675>

65" (SEE NOTE 4)

- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 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

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

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

CABLE SLACK		

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 - SOUARE	4'-0'' (1.2m)

DEPTH OF FOUNDATION

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)

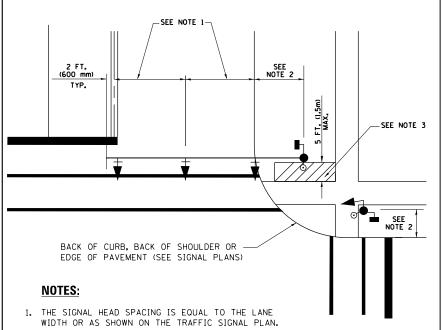
NOTES:

- 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 (Ou) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised 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) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

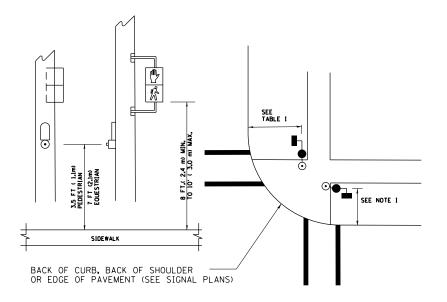
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c:\pw_work\pwidot\gaglianobt\d0182450\Di	stStd.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			362	0105R-N(12)	соок	48	29	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRAC	T NO. (60T9	
	PLOT DATE = 5/9/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FED. F	ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT			\dashv

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



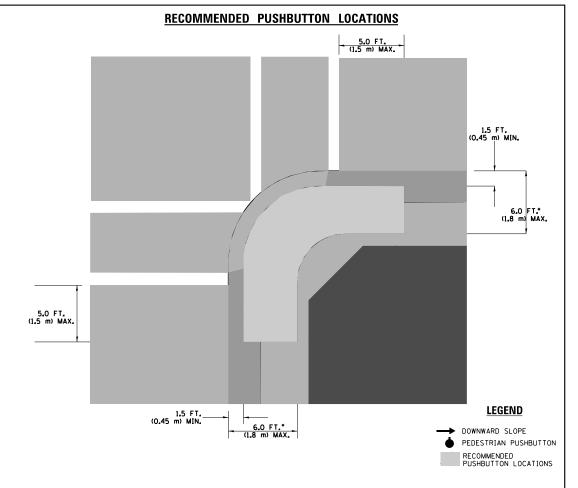
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO 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."

<u>Pedestrian Signal Post</u> <u>and</u> Pedestrian Push Button Post



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 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 MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



- 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:

- 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.
- 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 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:

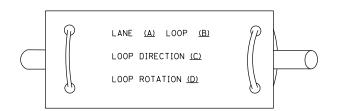
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 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.

DESIGNED - DAD FILE NAME : REVISED DAG 1-1-14 USER NAME = gaglianobt SECTION COUNTY DISTRICT ONE ::\pw_work\pwidot\gaglianobt\d0182450\DistStd.dgn DRAWN BCK REVISED STATE OF ILLINOIS 362 0105R-N(12 COOK 48 30 STANDARD TRAFFIC SIGNAL DESIGN DETAILS LOT SCALE = 100.0000 '/ in. CHECKED DAD REVISED **DEPARTMENT OF TRANSPORTATION** TS-05 CONTRACT NO. 60T96 SHEET NO. 3 OF 7 SHEETS STA. SCALE: NONE REVISED PLOT DATE = 5/9/2014 DATE 10-28-09 FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT

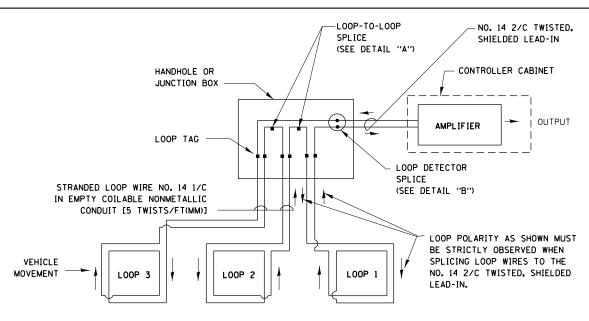
LOOP DETECTOR NOTES

- 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

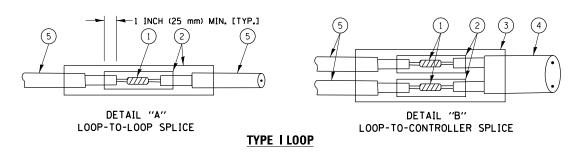


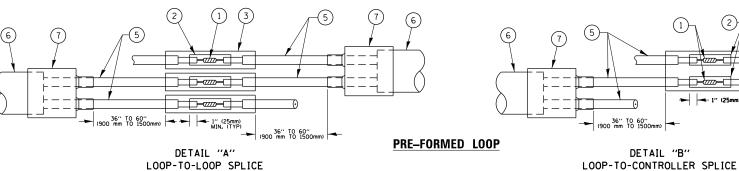
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.





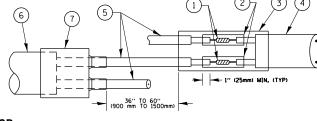


LOOP DETECTOR SPLICE

- (1) 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.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

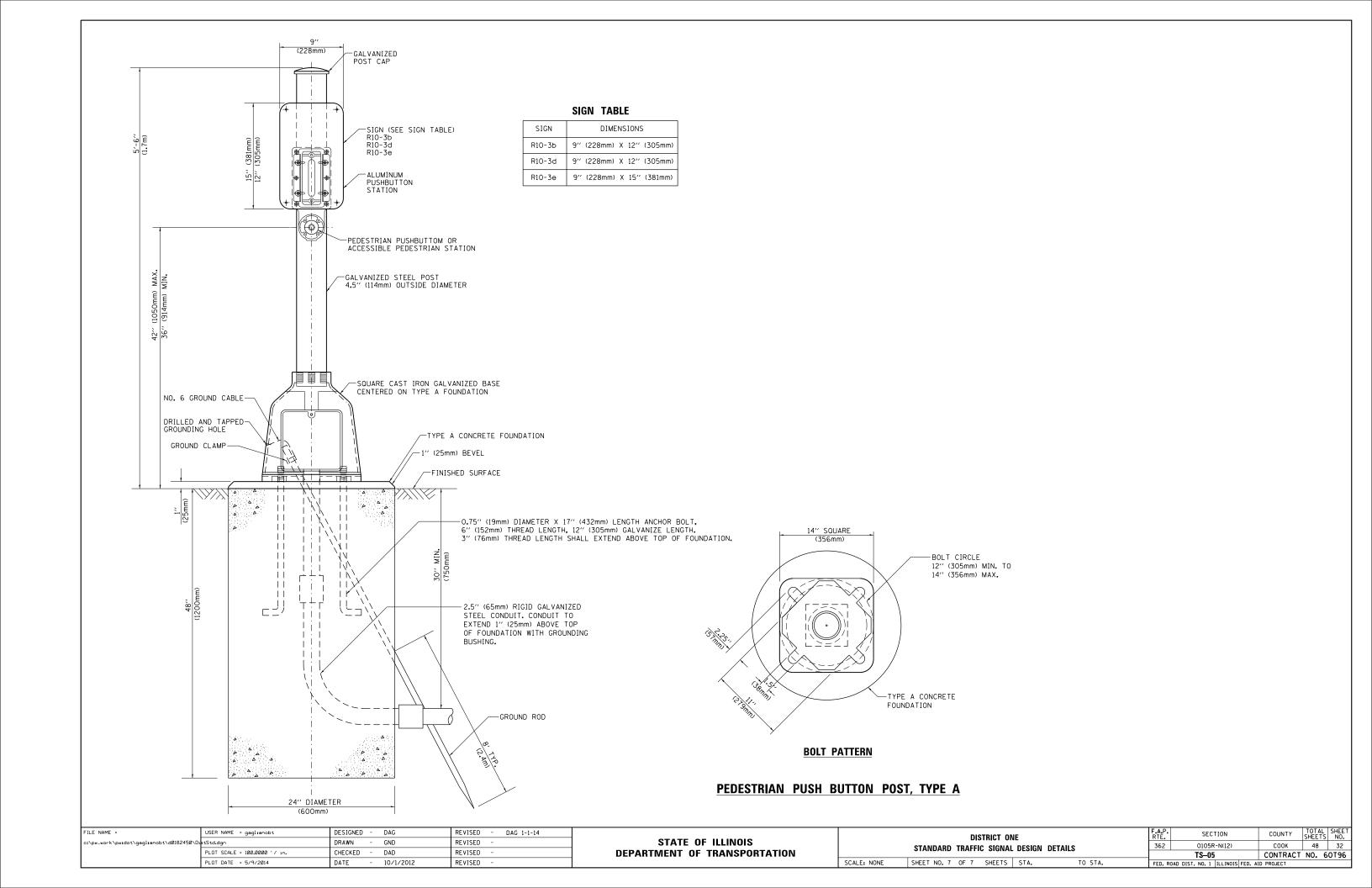


- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR The BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

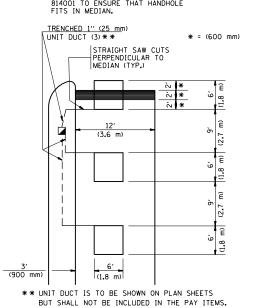
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET NO. 2 OF 7 SHEETS STA. TO STA		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
	STANDARD TRACEIC SIGNAL DESIGN DETAILS				362	0105R-N(12)	соок	48	31	
						TS-05	CONTRACT	NO. 6	OT96	
	SHEET NO. 2	OF 7	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER Ê (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNI DUCT-TRENCHED TO E/P •• (3.0 m) (3.0 m) * = (600 mm)* * 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 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
BLADOL TO ENESURE THAT WARRING! 814001 TO ENSURE THAT HANDHOLE

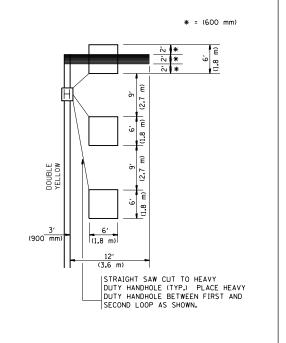


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

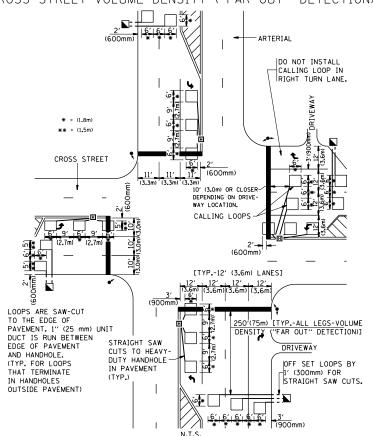


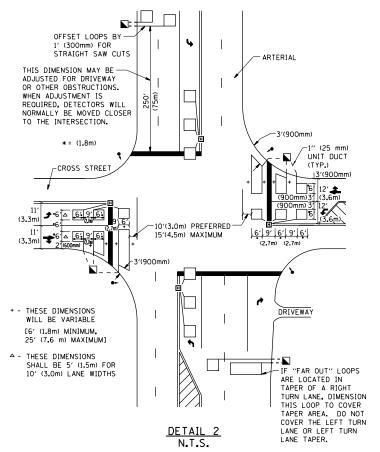
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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,
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * 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 ALL 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.

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.

COUNTY

48 33

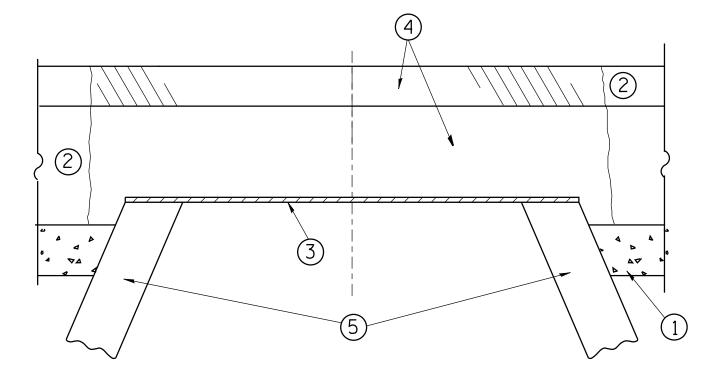
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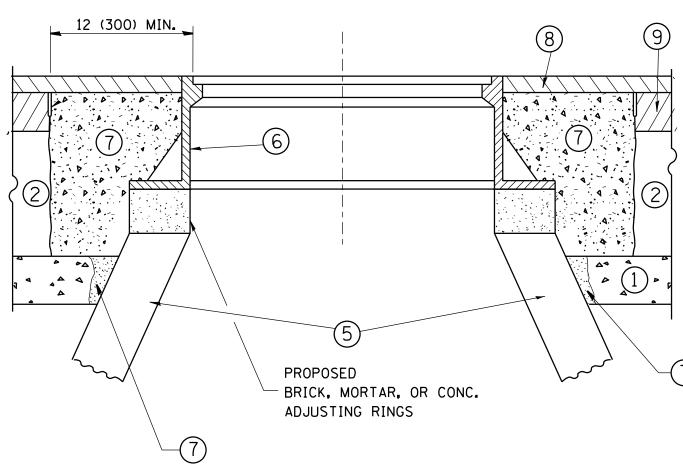
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DETAIL 1

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT 1 - DET	ECTOR L	OOP INST		F.A.P. RTE.	SECTION	COUNTY
	DETAILS FOR ROADWAY RESURFACING				362	COOK	
						TS-07	CONTRA
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	D 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.

SCALE: NONE

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
- 8 PROPOSED HMA SURFACE COURSE
- 4 PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (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

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	PLOT DATE = 5/12/2014	DATE - 10-25-94	REVISED	- R. BORO 12-06-11	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	D	ETAILS FO	R	
FRAMES AND	LIDS	ADJUSTM	ENT WITH	MILLING
SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.

SECTION COUNT

362 0105R-N(12) COOK

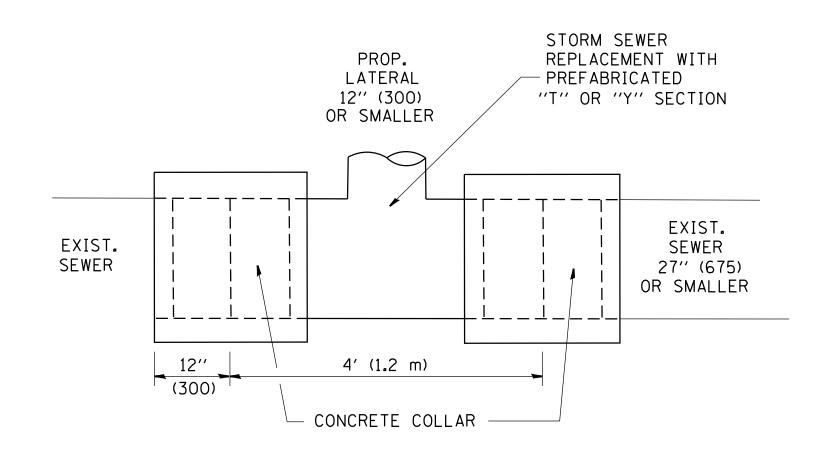
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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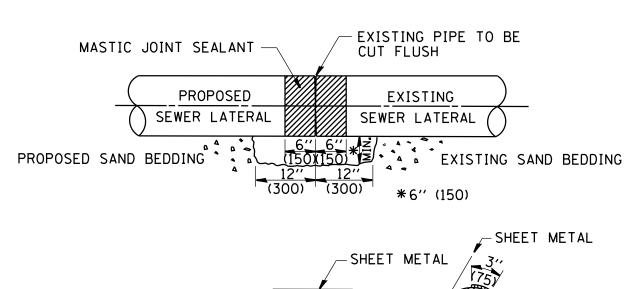
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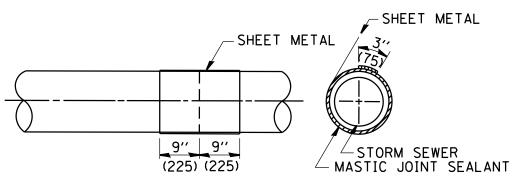
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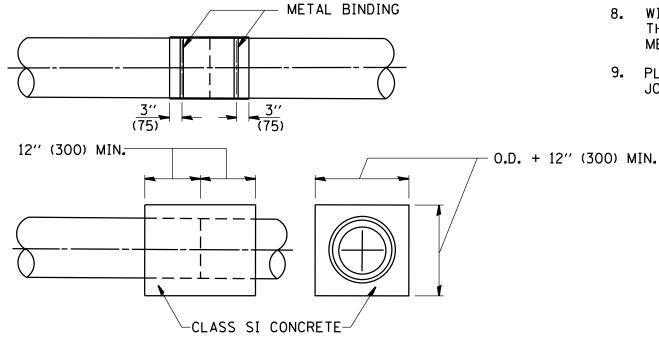


DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER





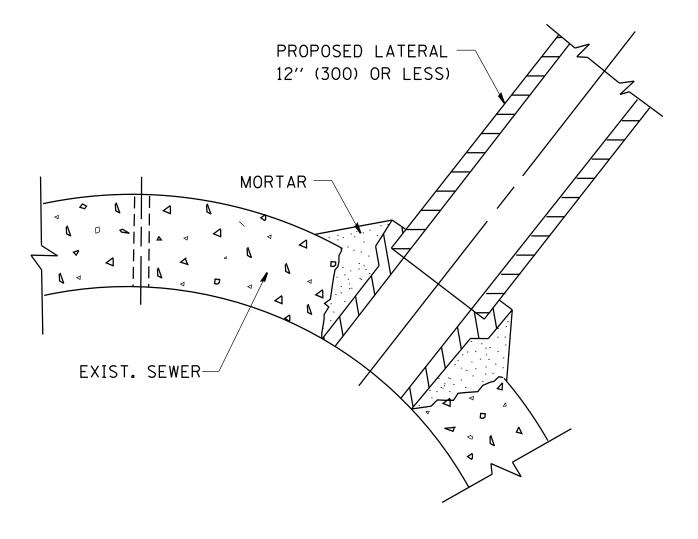


<u>DETAIL "B"</u>
CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- 2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- 3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' × 6' (300 × 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- 4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
- 5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- 6. LAP THE SHEET METAL AT LEAST 3" (75)
 AT THE TOP OF THE PIPE AND PLACE THE
 MASTIC JOINT SEALANT BETWEEN THE LAP.
- 7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- 8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- 9. PLACE CLASS SI CONCRETE AROUND THE

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



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

 A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER.

ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST

BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

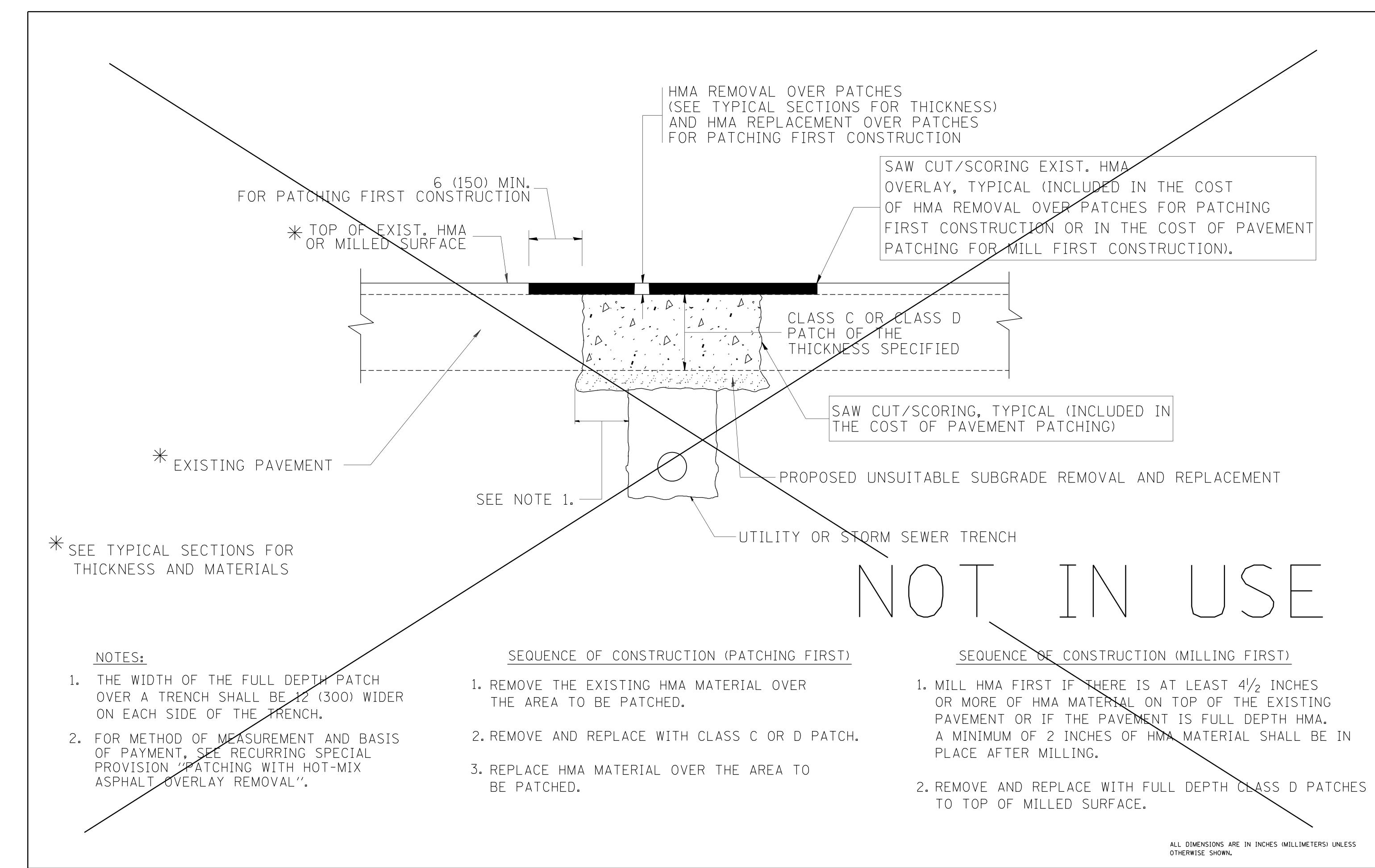
TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

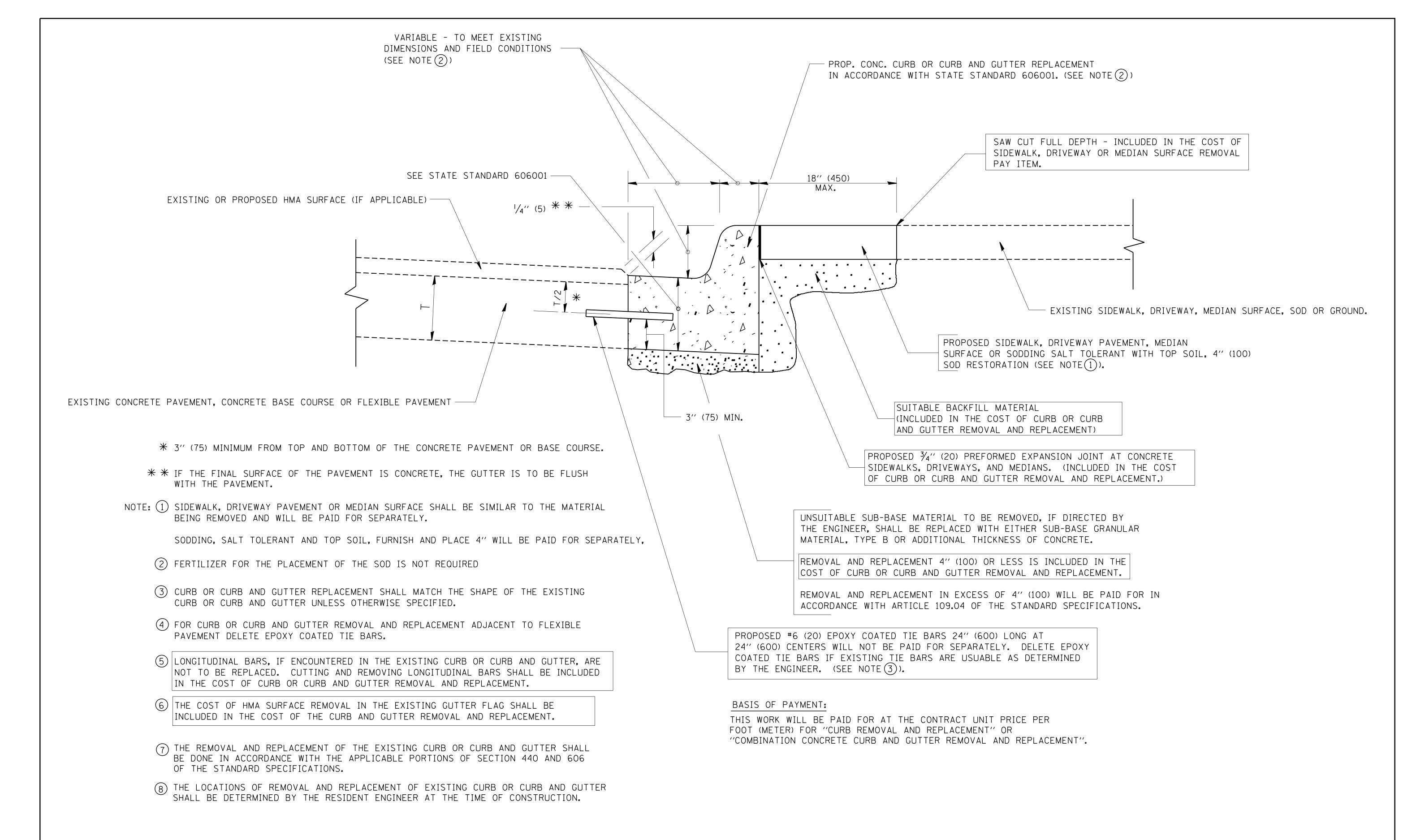
TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92		DETAIL OF STORM SEWER	F.A.P.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = 50.0000 '/ 1n.	CHECKED -	REVISED - R. SHAH 10-25-94	DEPARTMENT OF TRANSPORTATION	CONNECTION TO EXISTING SEWER		00-01 (BD-7)		NO. 60T96
	PLOT DATE = 5/12/2014	DATE - 07-25-90	REVISED - R. SHAH 06-12-96		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DI	· · · · · · · · · · · · · · · · · · ·	D. AID PROJECT	



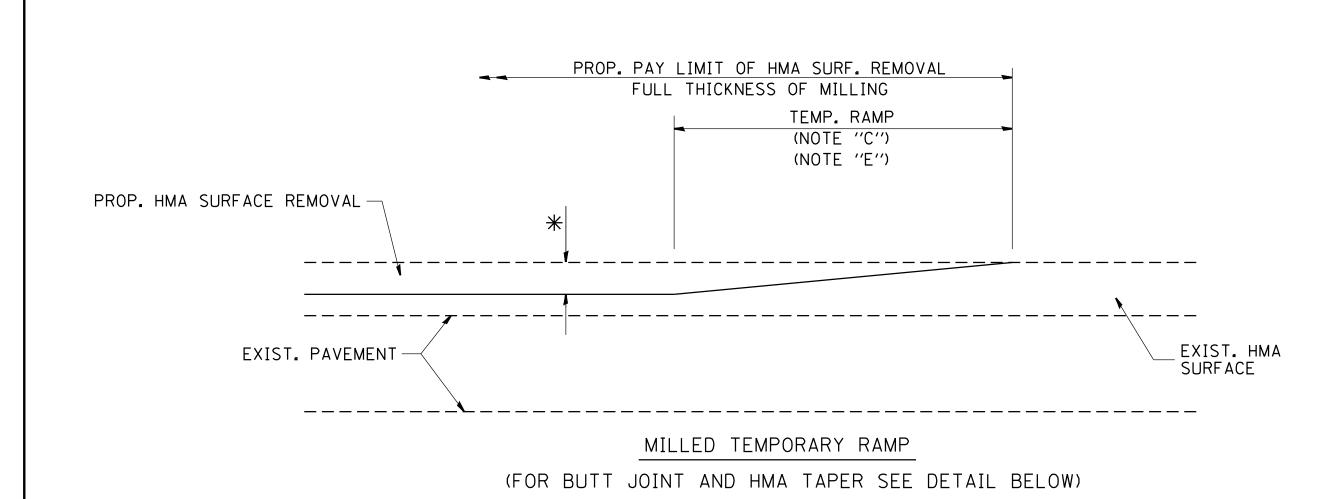
DESIGNED FILE NAME = R. SHAH REVISED A. ABBAS 04-27-98 USER NAME = drivakosqn SECTION **PAVEMENT PATCHING FOR STATE OF ILLINOIS** DRAWN R. BORO 01-01-07 ::\pw_work\pwidot\drivakosgn\d0182450\DistStd.dgn 0105R-N(12) COOK 48 36 HMA SURFACED PAVEMENT CHECKED **DEPARTMENT OF TRANSPORTATION** R. BORO 09-04-07 PLOT SCALE = 50.0000 '/ 1n. BD400-04 (BD-22) CONTRACT NO. 60T96 PLOT DATE = 5/12/2014 DATE 10-25-94 - K. ENG 10-27-08 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. REVISED FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



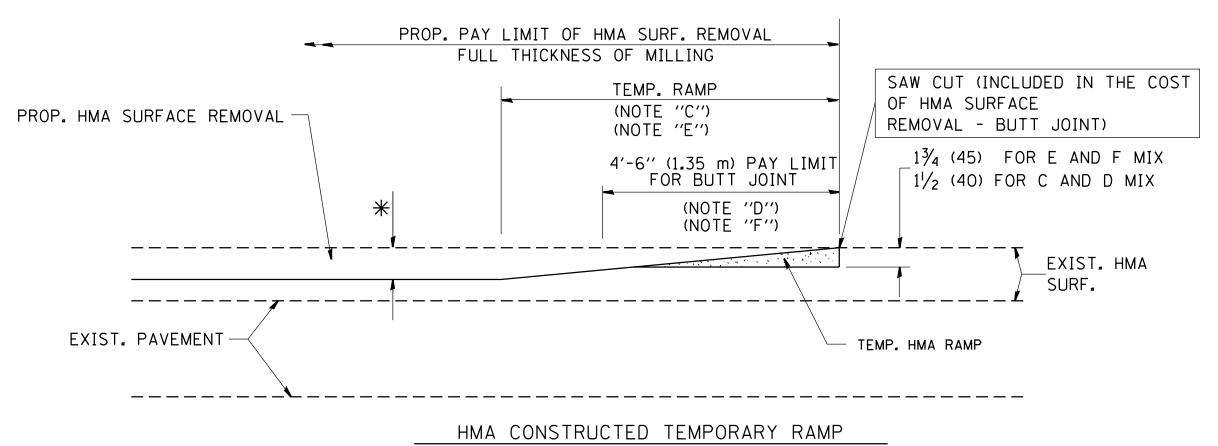
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

	PLOT DATE = 5/12/2014	DATE - 03-11-94	REVISED -	- R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD	· · · · · · · · · · · · · · · · · · ·	AID PROJECT	
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED -	- M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		REMOVAL AND REPLACEMENT		ВС	0600-06 (BD-24)	CONTRACT	T NO. 60T96
c:\pw_work\pwidot\drivakosgn\d0182450\Di	ıstStd.dgn	DRAWN -	REVISED -	- A. ABBAS 03-21-97	STATE OF ILLINOIS				362	0105R-N(12)	СООК	48 37
FILE NAME =	USER NAME = drıvakosgn	DESIGNED - A. HOUSEH	REVISED -	- R. SHAH 10-03-96			CURB OR CURB AND GUTTER		RTE.	SECTION	COUNTY	SHEETS NO.

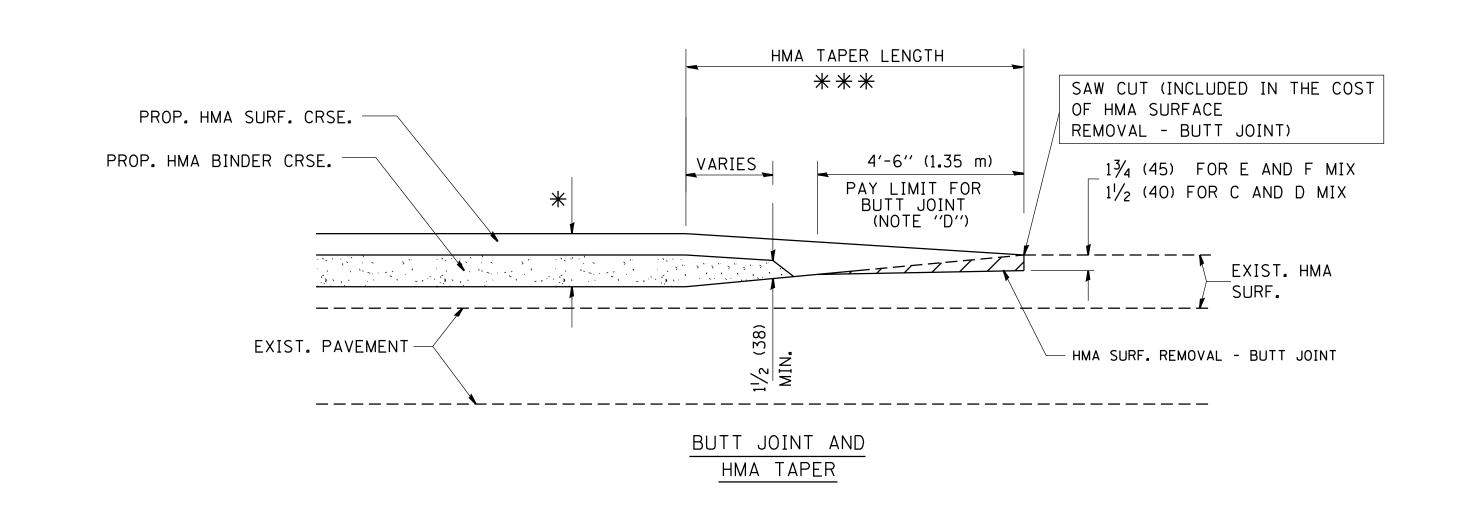


OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2 TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = DESIGNED M. DE YONG REVISED R. SHAH 10-25-94 USER NAME = drivakosqn DRAWN REVISED A. ABBAS 03-21-97 c:\pw_work\pwidot\drivakosgn\d0182450\Di<mark>s</mark>tStd.dgn CHECKED REVISED M. GOMEZ 04-06-01 PLOT SCALE = 50.0000 '/ in. PLOT DATE = 5/12/2014 DATE 06-13-90 - R. BORO 01-01-07 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND

HMA TAPER DETAILS

SHEET NO. 1 OF 1 SHEETS STA.

TO STA.

F.A.P. RTE. SECTION COUNTY SHEETS NO. 362 0105R-N(12) COOK 48 38

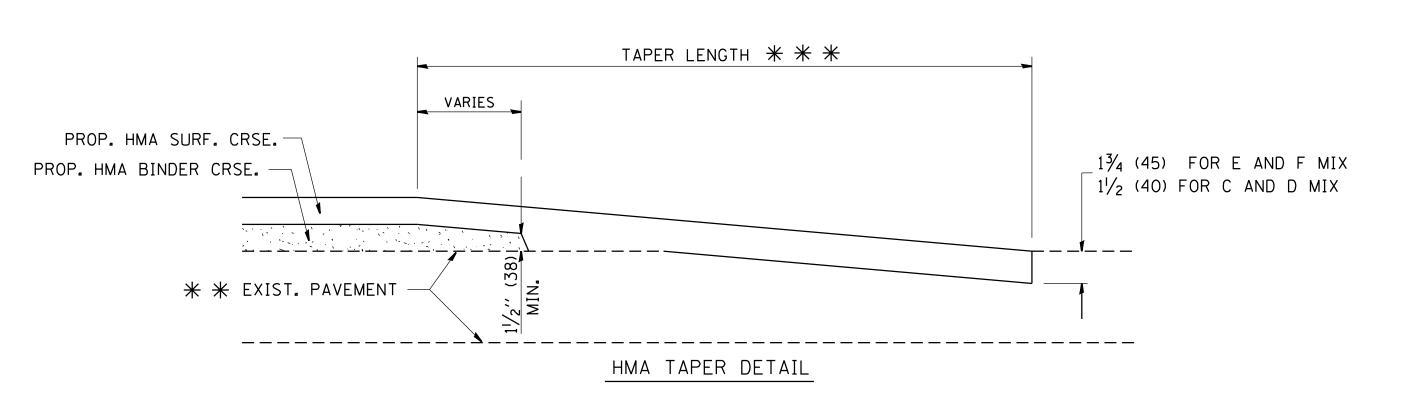
BD400-05 BD32 CONTRACT NO. 60T96

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

PROP. HMA OR PCC
SURFACE REMOVAL - BUTT JOINT
30'-0" (9.0 m) (NOTE "A")
15'-0" (4.5 m) (NOTE "B")
(NOTE "D")

** * EXIST. PAVEMENT

BUTT JOINT DETAIL



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.

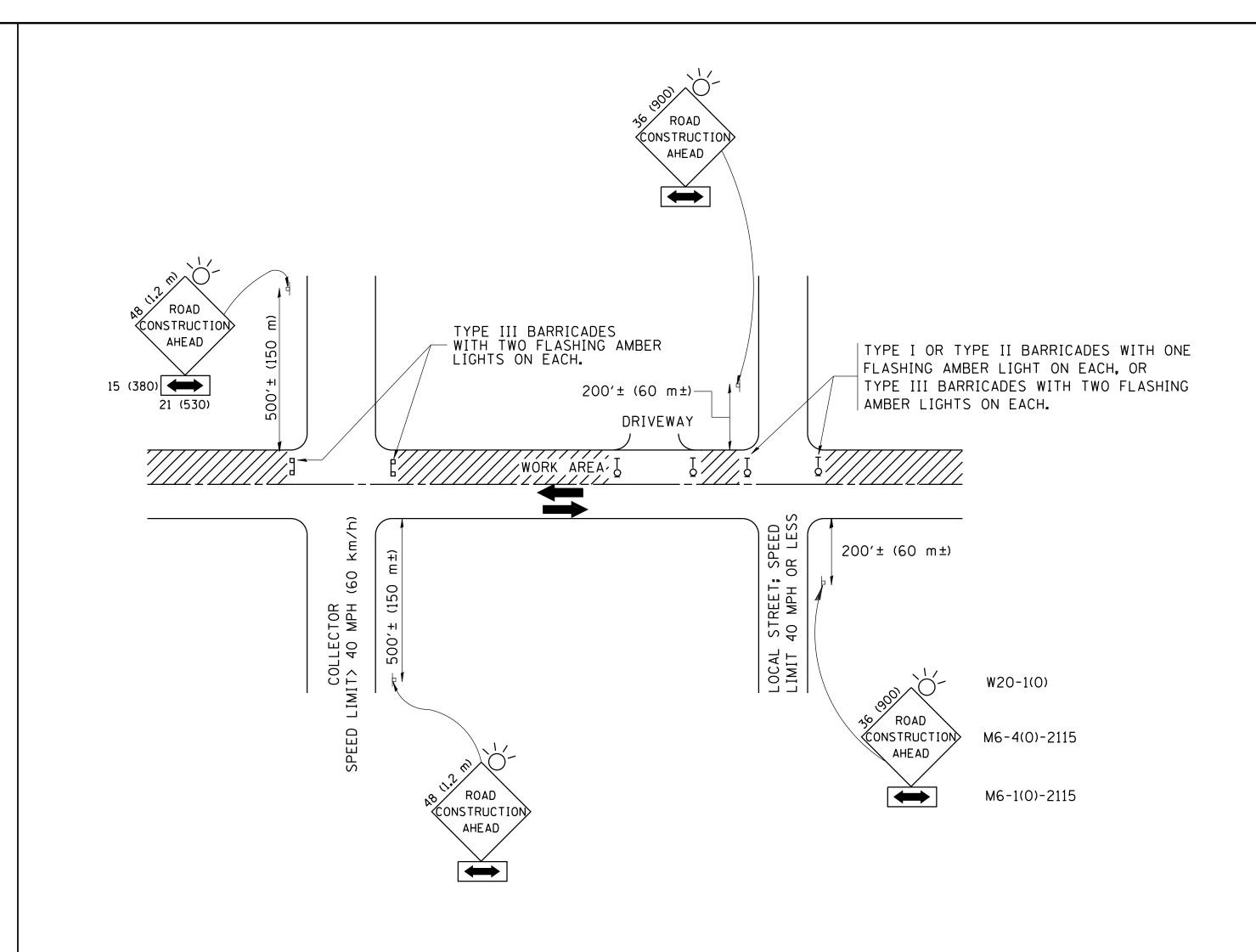
** ** ** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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".

SCALE: NONE

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



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

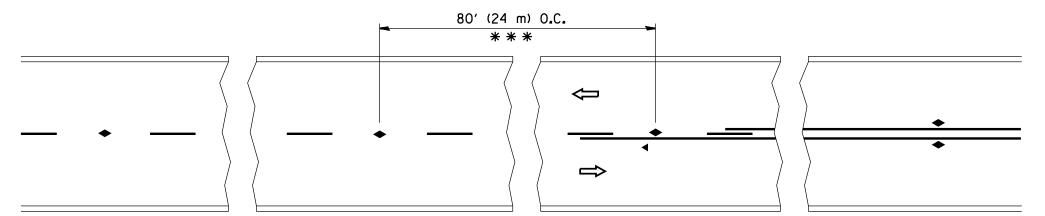
A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

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

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

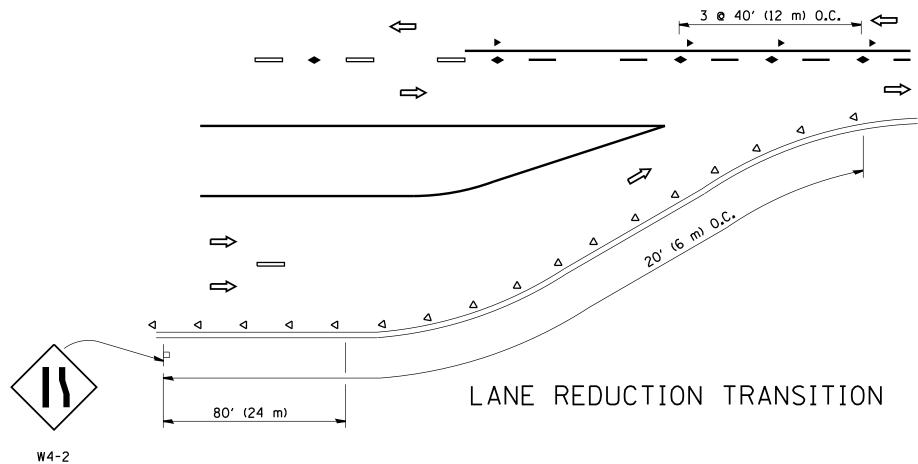
All dimensions are in millimeters (inches) unless otherwise shown.

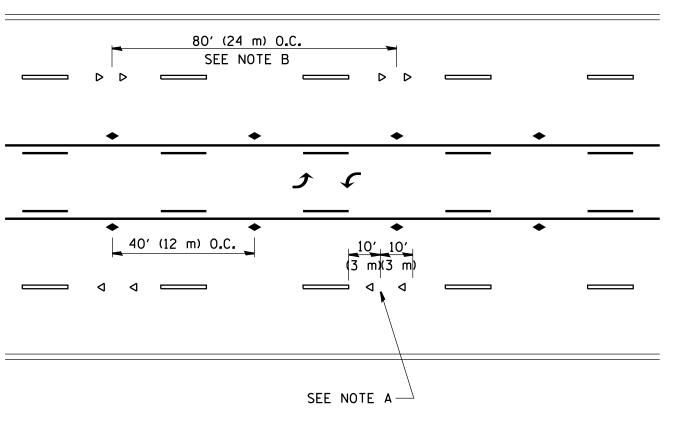
FILE NAME =	USER NAME = drivakosgn	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	CTATE OF HUNDIC	TRAFFIC CONTROL AND PROTECTION FOR			SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\drivakosgn\d0182450\D:	listStd.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			362	0105R-N(12)	СООК	48 39
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION		SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		TC-10	CONTRACT	NO. 60T96
	PLOT DATE = 5/12/2014	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			DIST. NO. 1 ILLINOIS FED. A	AID PROJECT	



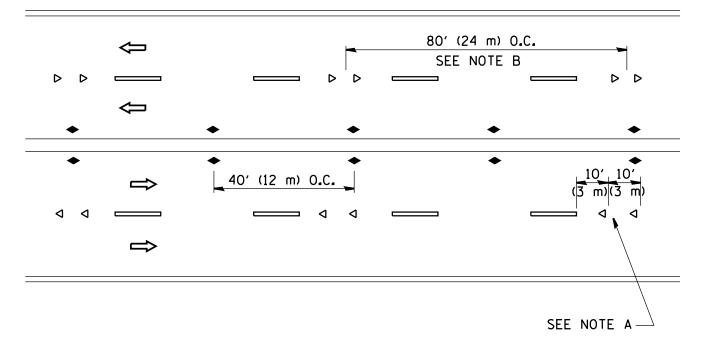
* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

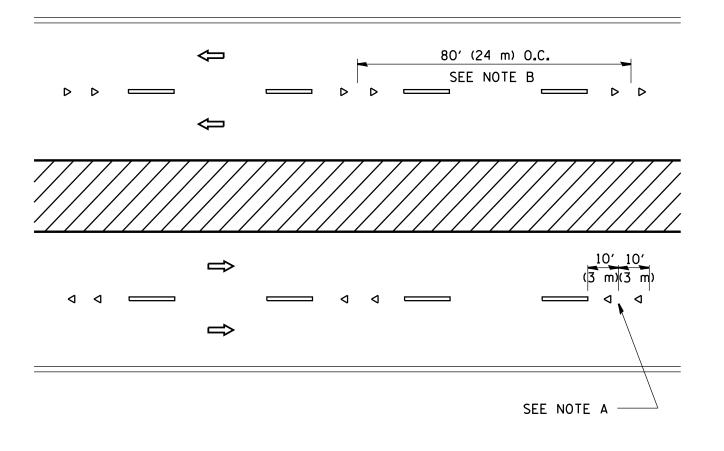




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

____ YELLOW STRIPE

── WHITE STRIPE

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

DESIGN NOTES

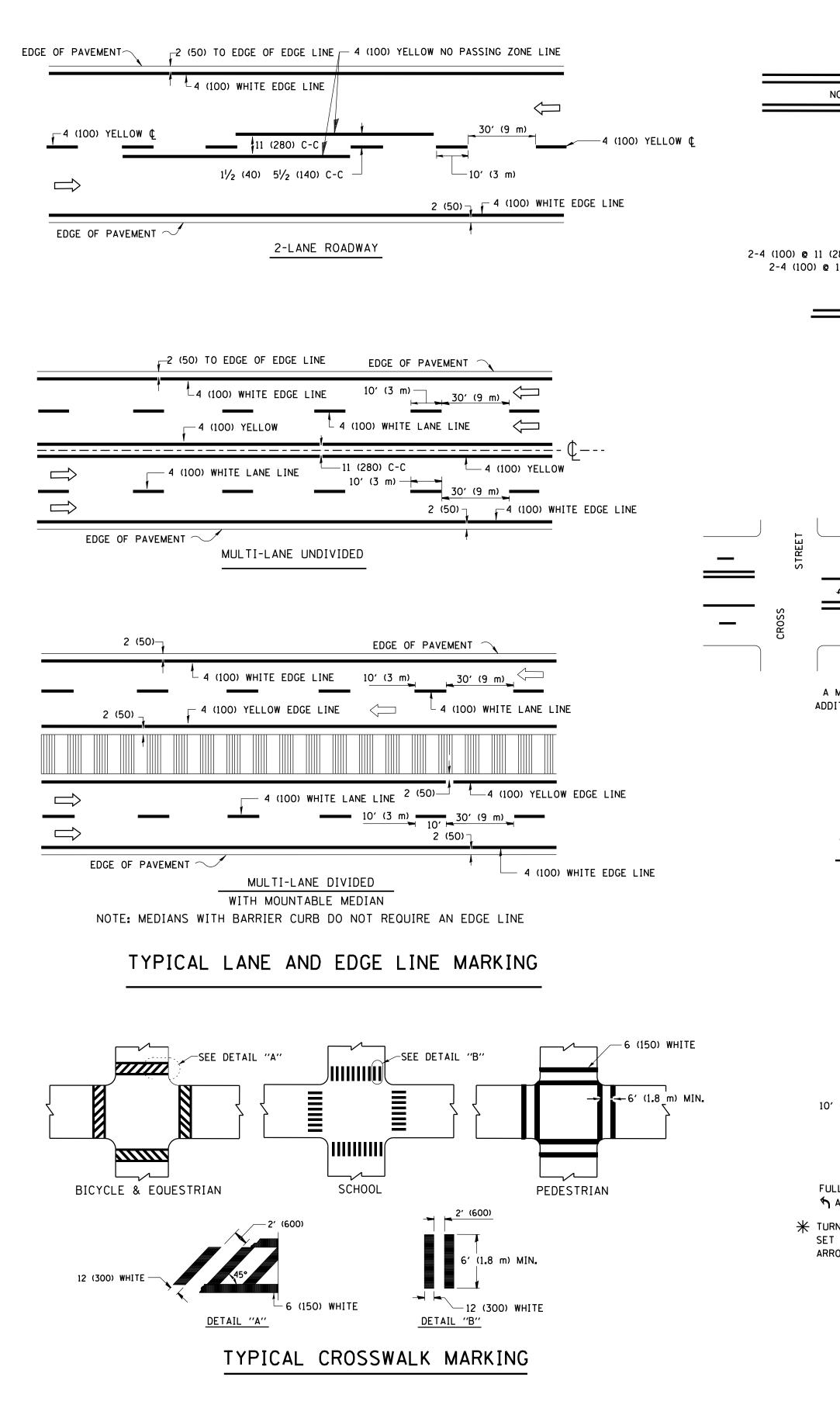
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD 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

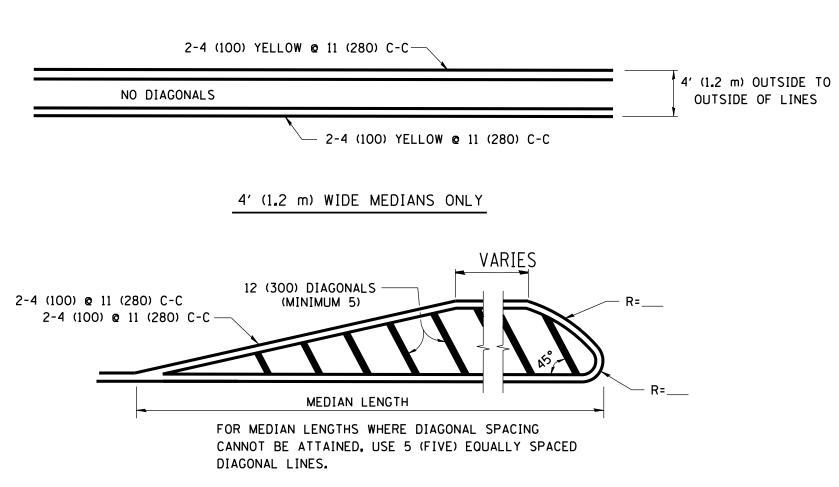
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LEFT TURN

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

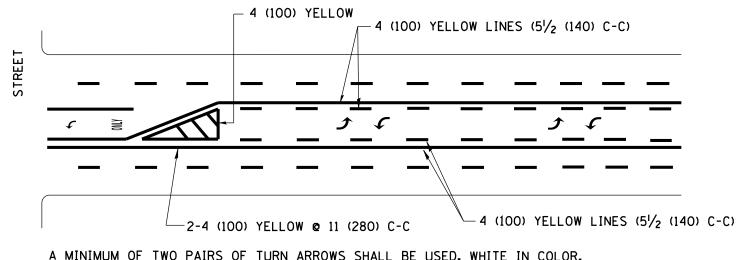
FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS		F.A.P. RTF	SECTION	COUNTY	SHEETS NO.
c:\pw_work\pwidot\drivakosgn\d0182450\D	ıstStd.dgn	DRAWN -	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS			362	0105R-N(12)	СООК	48 40
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			TC-11	CONTRACT	T NO. 60T96
	PLOT DATE = 5/12/2014	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R		AID PROJECT	



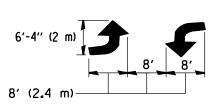


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

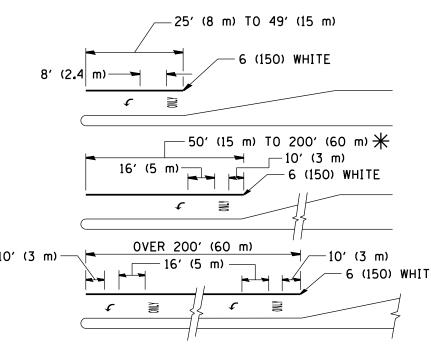


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

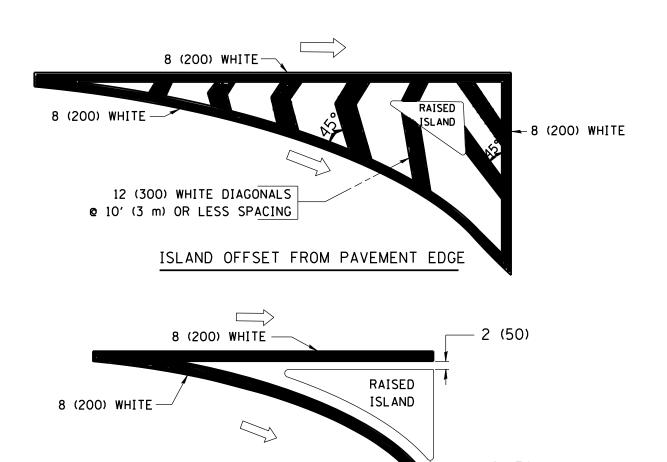


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \uparrow AREA = 15.6 SQ. FT. (1.5 m²) \uparrow AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

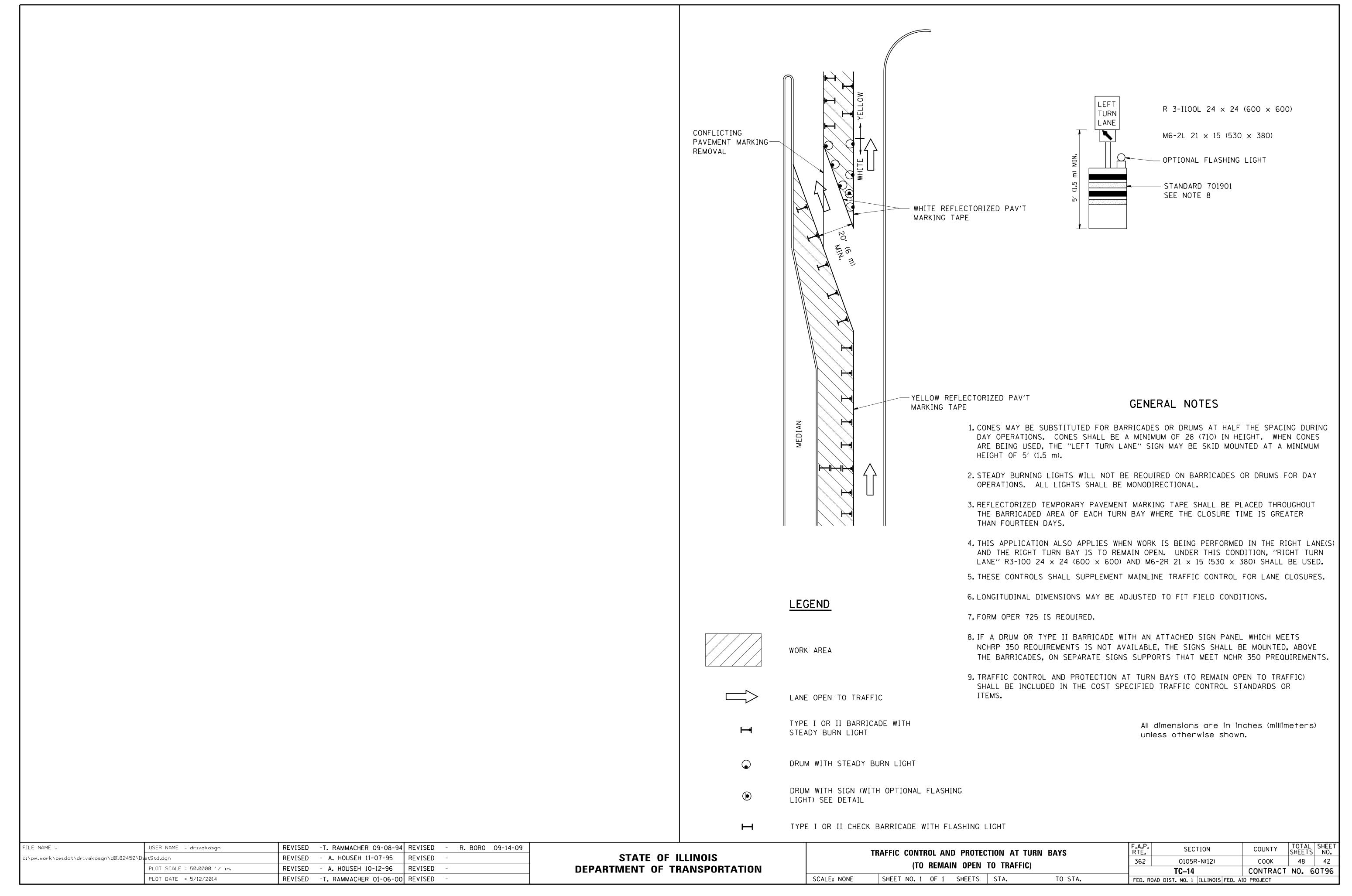
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	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 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) © 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

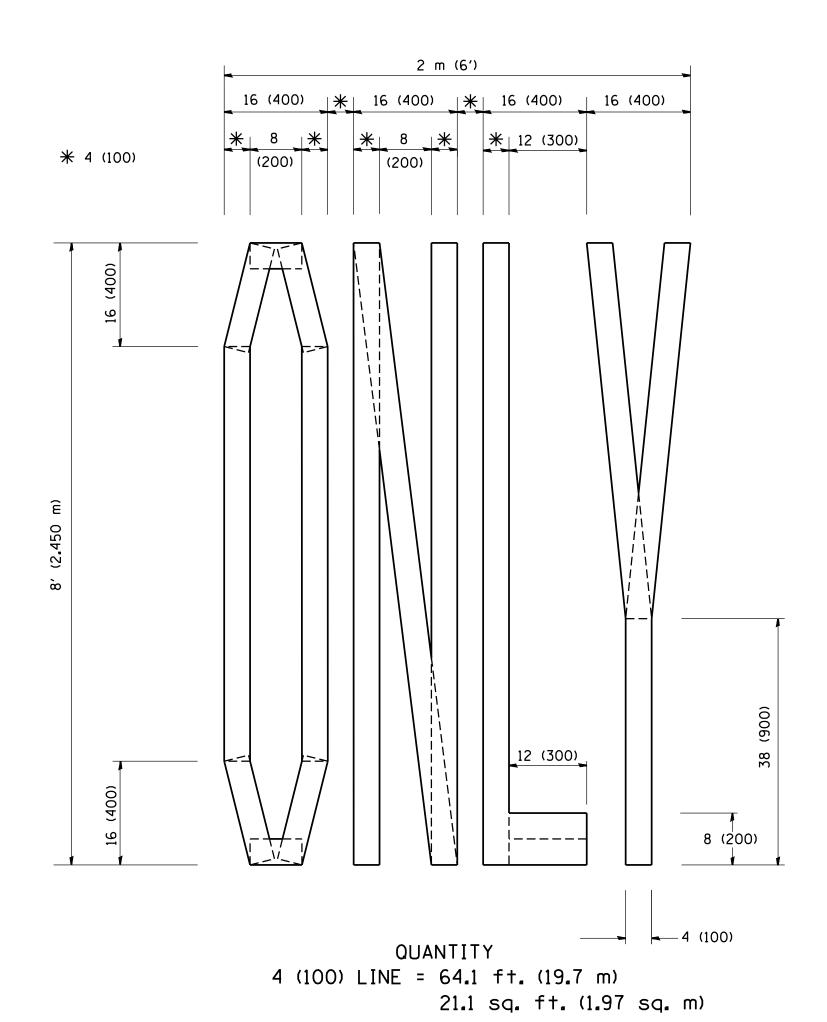
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

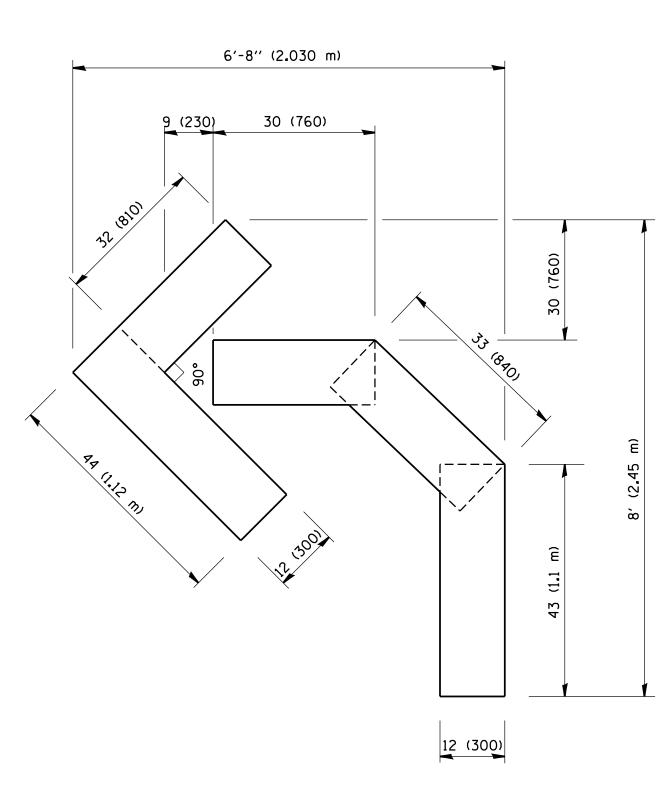
All dimensions are in inches (millimeters) unless otherwise shown.

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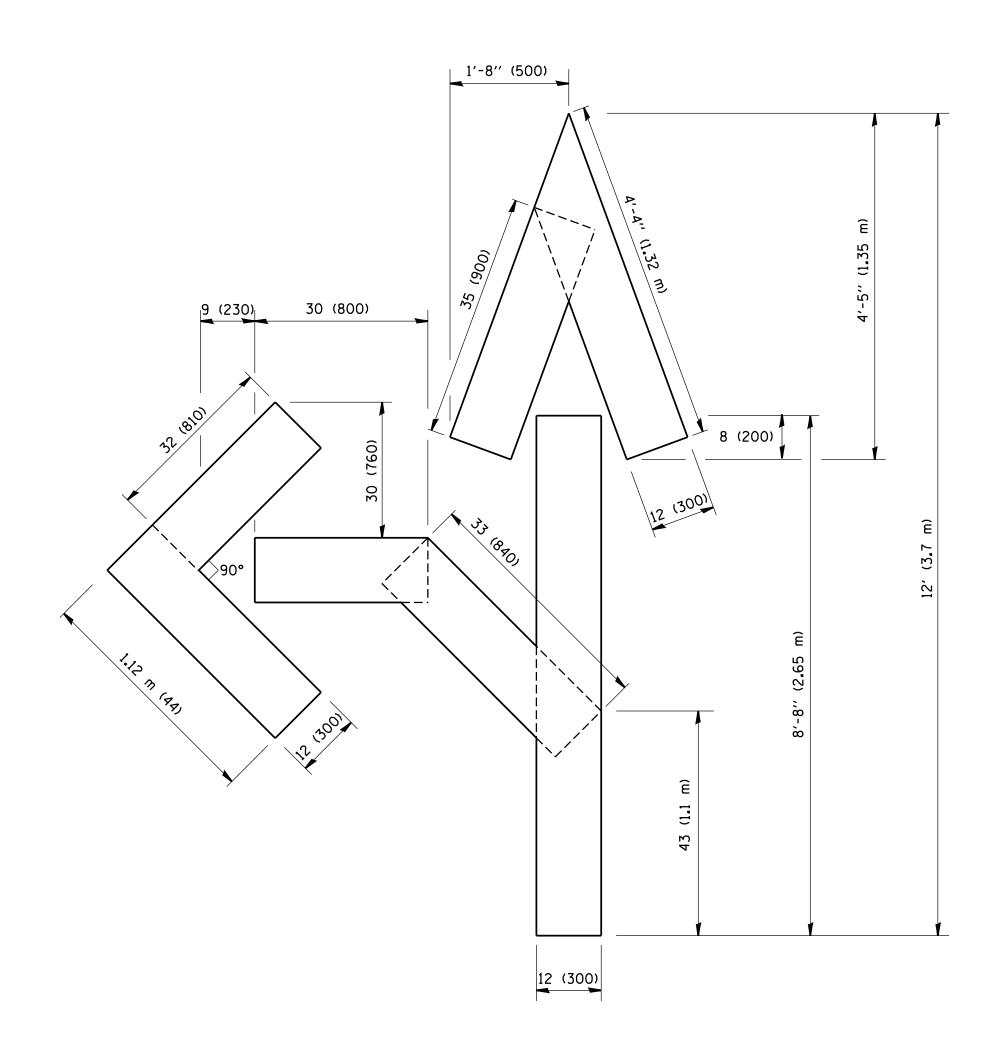
FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\drivakosgn\d0182450\[DistStd.dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS	TYPICAL PAVEMENT MARKINGS	362	0105R-N(12)	СООК 48 41
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	I TPICAL PAVEIVIENT IVIANKINGS		TC-13	CONTRACT NO. 60196
	PLOT DATE = 5/12/2014	DATE - 03-19-90	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD D	IST. NO. 1 ILLINOIS FE	ED. AID PROJECT







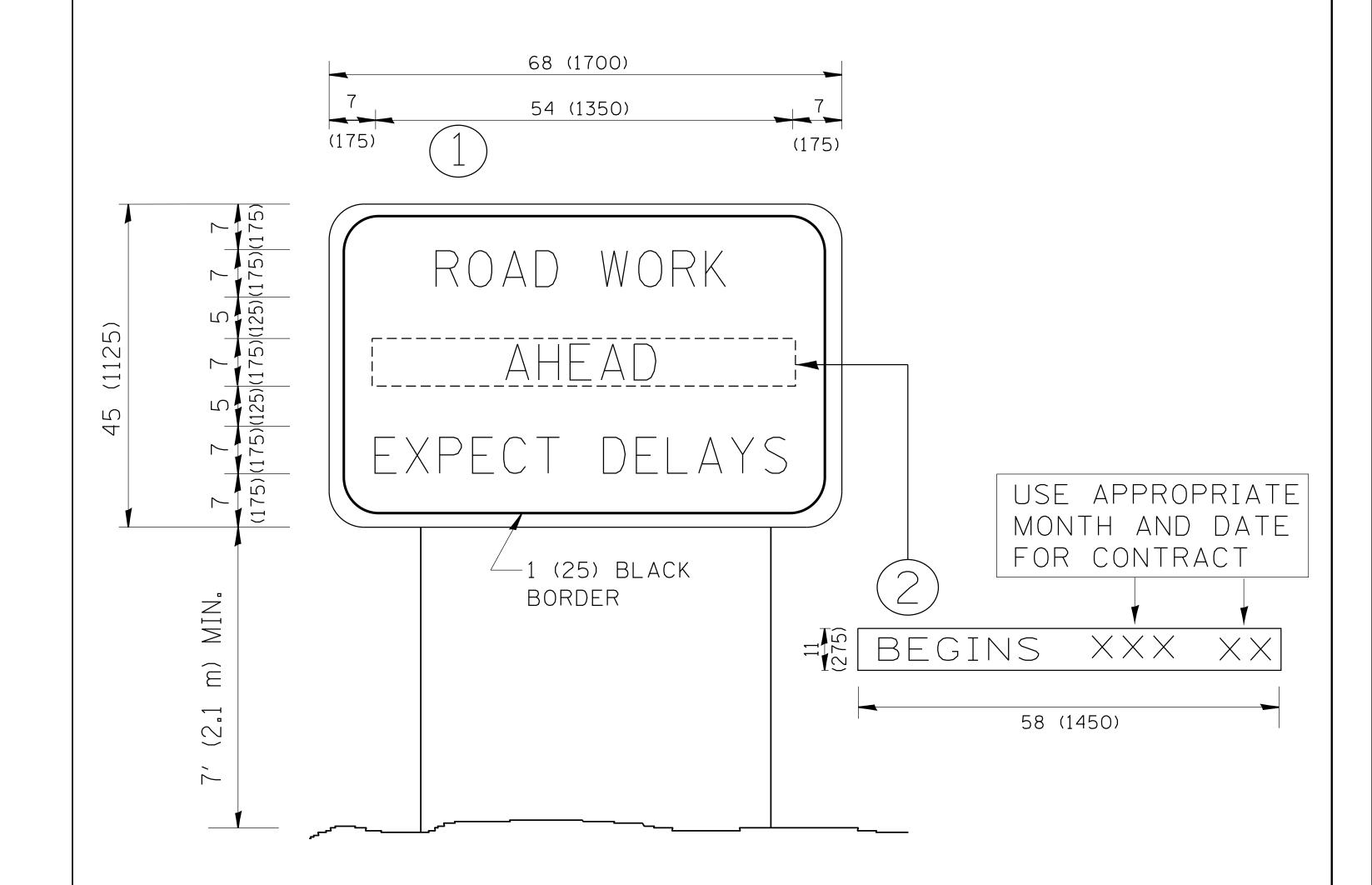
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



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

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

FI	ILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED -T. RAMMACHER 06-05-96		PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P.	SECTION	COUNTY TOTAL SHEET
C	:\pw_work\pwidot\drivakosgn\d0182450\D	DıstStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS		362	0105R-N(12)	COOK 48 43
		PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98		FOR TRAFFIC STAGING		TC-16	CONTRACT NO. 60T96
		PLOT DATE = 5/12/2014	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FFD, ROAD	DIST. NO. 1 ILLINOIS FE	O. AID PROJECT

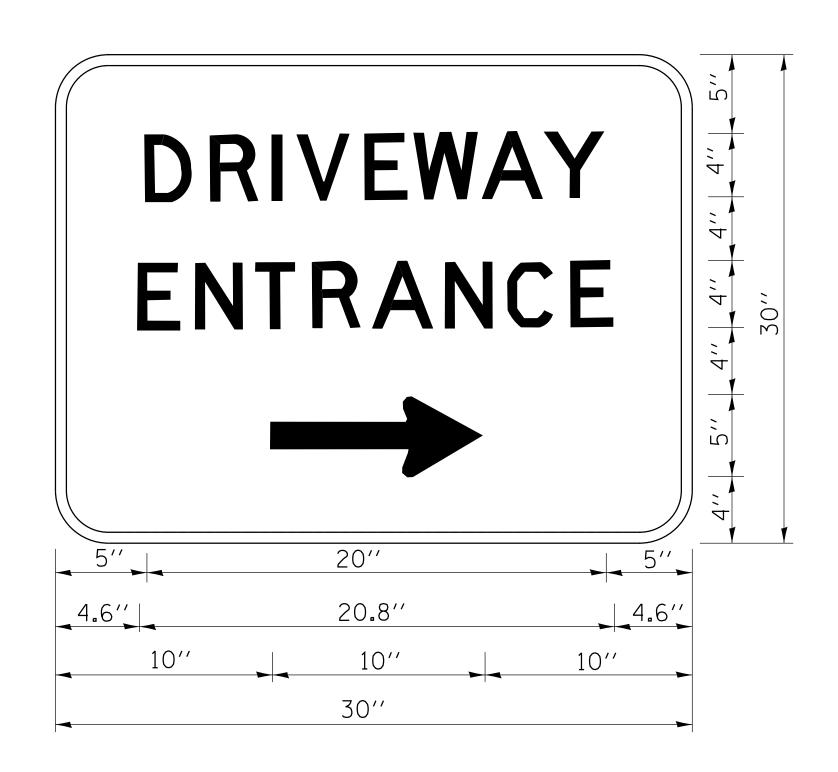


NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN 1) WITH INSTALLED PANEL 2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL 2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.P.	SECTION	COUNTY	TOTAL	SHEE	ΞŦ
c:\pw_work\pwidot\drivakosgn\d0182450\[DıstStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				362	0105R-N(12)	СООК	48	44	
	PLOT SCALE = 50.0000 '/ 10.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN			TC-22	CONTRAC	T NO.	60T9f	6
	PLOT DATE = 5/12/2014	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA	TO STA.	FFD. ROAD	DIST, NO. 1 ILLINOIS FED. A				-



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - C. JUCIUS 02-15-07				F.A.P. RTF.	SECTION	COUNTY	TOTAL	SHEET	
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	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					TC-26	CONTRACT	NO. 6	0Τ96
	PLOT DATE = 5/12/2014	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIS	ST. NO. 1 ILLINOIS FE	D. AID PROJECT		-

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