1-17-14 LETTING ITEM 090

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGE OF LYONS

TRAFFIC DATA:

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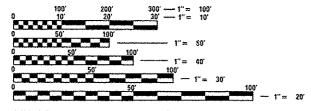
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IL 171 (1ST AVE) 2012 ADT = 37,000 SPEED LIMIT = 40 MPH

US 34 (OGDEN AVE) 2011 ADT = 23,700 SPEED LIMIT = 30 MPH

PLAINFIELD RD 2010 ADT = 6,300 SPEED LIMIT = 35 MPH



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

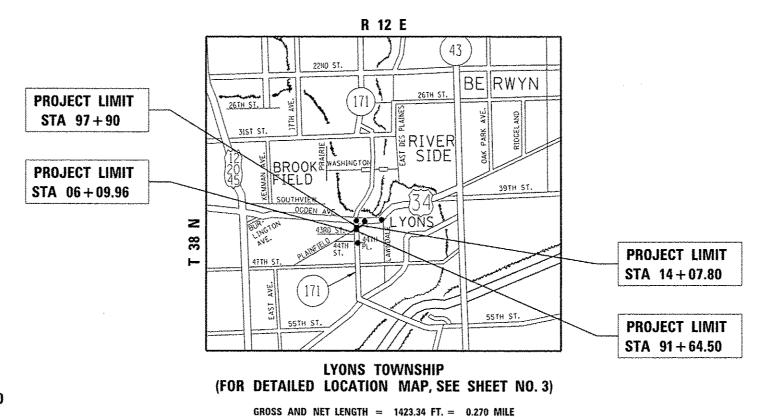
PROJECT ENGINEER: DAN WILGREEN (847) 705-4240 PROJECT MANAGER: KEN ENG (847) 705-4247

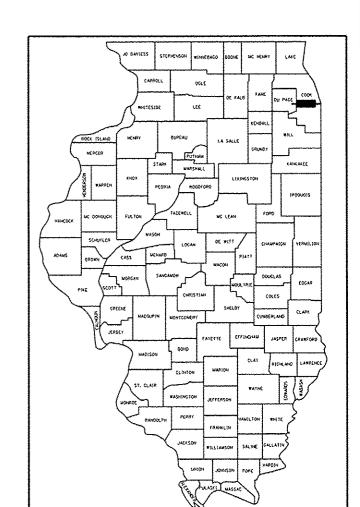
CONTRACT NO. 60V34

PROPOSED HIGHWAY PLANS

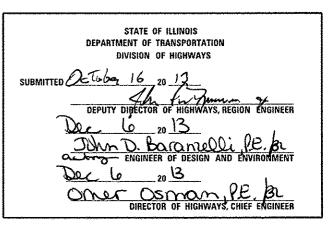
FAP RTE 372: IL RTE 171 (1ST AVE)
AND FAP RTE 311: US RTE 34 (OGDEN AVE)
AT VARIOUS INTERSECTIONS
SECTION 2012–047I
PROJECT: ACHSIP-000S (955)
TRAFFIC SIGNAL MODERNIZATION
AND CHANNELIZATION
COOK COUNTY

C-91-543-12





LOCATION OF SECTION INDICATED THUS: -



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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- 424006-01 DIAGONAL CURB RAMPS FOR SIDEWALKS
- 424011-01 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
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- 606001-05 CONCRETE CURB TYPE B AND COMBINATION CONCRETE
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W . MORE THAN 15' (4.5mm) AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L. 2W. 15' (4.5m) TO 24" (600mm) FROM PAYEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
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- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
- 701427-02 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS \leq 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
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- 878001-09 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATION

GENERAL NOTES

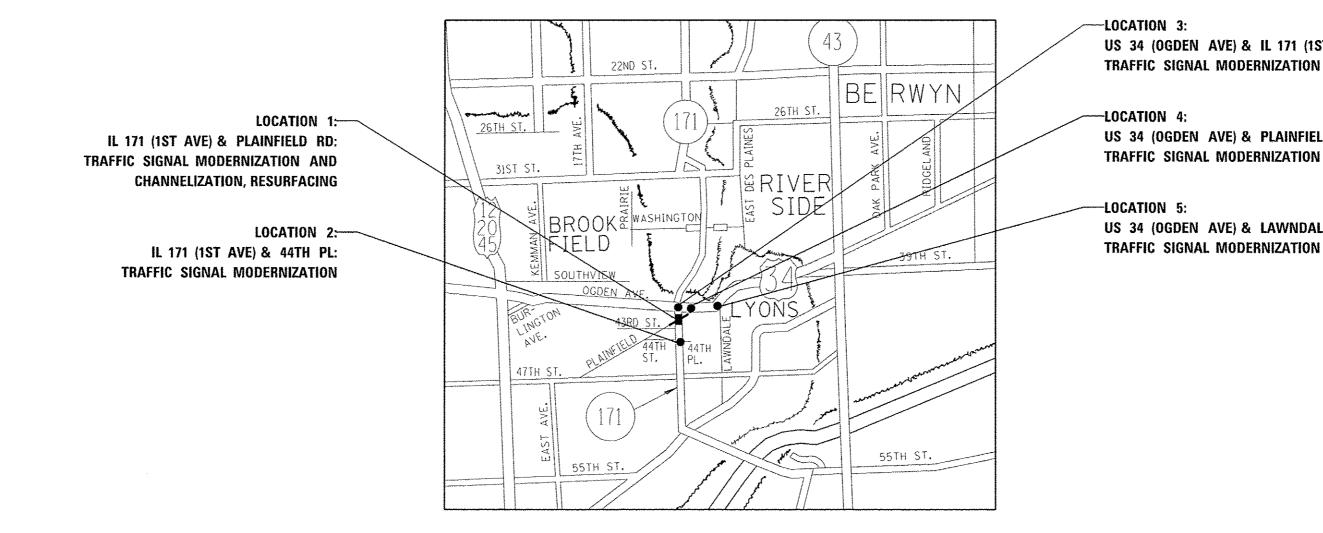
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811
 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. 48 HOUR NOTIFICATION IS
 REQUIRED.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS
 OF 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.
- 3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LYONS.
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- WHEN CONSTRUCTING SIDEWALK RAMPS FOR THE HANDICAPPED (STATE STANDARD 424001), USE TYPE B RAMPS UNLESS OTHERWISE SPECIFIED.
- 6. 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.
- 7. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 8. 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.
- 9. ALL PAVEMENT PATCHING AND CURB AND GUTTER REMOVAL AND REPLACEMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- O. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 12. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 13. SIDEWALK REMOVAL AND P.C.C. SIDEWALK 5" LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- 14. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 15. THE RESIDENT ENGINEER SHALL CONTACT JERNARD PERKINS, AREA TRAFFIC FIELD ENGINEER, AT (708) 524-2145 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS,
- 16. 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.
- 17. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 18. 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.
- 19. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 20. 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.
- 21. 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.
- 22. 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 GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
- 23. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 24. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

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 212	2012-0411	CONTRACT	J	0v34



US 34 (OGDEN AVE) & IL 171 (1ST AVE):

US 34 (OGDEN AVE) & PLAINFIELD RD: TRAFFIC SIGNAL MODERNIZATION

US 34 (OGDEN AVE) & LAWNDALE AVE: TRAFFIC SIGNAL MODERNIZATION

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20201200	REMOVAL AND DISPOSAL OF UNSUITABLE	CU YD	9	5		BIOLOGIC AND	1	3	12.444.00				***				et qui agrante de la compansion de la comp						
	MATERIAL																						
21101615	TOPSOIL FURNISH AND PLACE. 4"	SO YO	37	37				Samuel Sa					40 A A A A A A A A A A A A A A A A A A A										
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1	1				-															
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1	1																			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	1				1000 1100 1100 1100 1100 1100 1100 110					The same of the sa										
25200110	SODDING, SALT TOLERANT	SO YD	37	37																			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	51	51				***************************************															
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SO YD	51	51																			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	4	4				The second secon															
40600300	AGGREGATE (PRIME COAT)	TON	16	16																0,0000			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	12	12																			
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	310	310												West of the second seco							
	METHÓD), 11-4,75, N50																						
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	87	87	الروان من المساور المراقب المساور المراقب المراقب المراقب المراقب المراقب المراقب المراقب المراقب المراقب المر المراقب المراقب				A STATE OF THE STA				**************************************										
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	SUMMARY OF QUANTITIES		URBAN			ONSTRUCTIO										r · · · · ·			-	·			
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOC. 1 90% FED. 10% STATE 0004 ROADWAY	0021	LOC. 2 90% FED. 5% STATE 5% LYONS 0021 TRF. SIG.	LOC. 3 90% FED. 10% STATE 0021 TRF. SIG.	LOC. 4 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	LOC. 5 90% FED. 6,7% STATE 3.3% LYONS 0021 TRF. SIG.	90% FED. 10% STATE 0021 INTER- CONNECT	100% LYONS 0021 EVP										- CARL FOR THE PROPERTY OF THE		
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	28	28																			
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	736	736																			
40603595		ION	136	136	ļ												_						
	COURSE, MIX "F", N90													,									
42001300	PROTECTIVE COAT	SO YD	308	205			25	56	22														
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1775	1180			102	371	122														
42400800	DETECTABLE WARNINGS	SO FT	246	106			52	37	51														
44000159	HOT-MIX ASPHALT SURFACE REMOVAL. 2 1/2"	SO YD	7501	7501																			
							-									200 A CONTRACTOR AND A							
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	11	1 1																			
44000600	SIDEWALK REMOVAL	SO FT	1484	925			66	371	122														
																						·	
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SO YD	125	125																			
44003100	MEDIAN REMOVAL	SO FT	455	455																			
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	27	27												1							
44201769	CLASS D PATCHES. TYPE III. 10 INCH	SO YD	7	7																			
44201771	CLASS D PATCHES, TYPE IV. 10 INCH	SO YD	74	74																			
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	11	11																			
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4									-										
	• SPECIALTY ITEM					**************************************							ANALY MARKET WAS THE			1	макеминали						
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CODE NO	ITEM	UNIT	TOTAL OUANTITIES	LOC. 1 90% FED. 10% STATE 0004 ROADWAY	LOC. 1 90% FED. 7.5% STATE 2.5% LYONS 0021 TRF. SIG.	LOC. 2 90% FED. 5% STATE 5% LYONS 0021 TRF. SIG.	LOC. 3 90% FED. 10% STATE 0021 TRF. SIG.	LOC. 4 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	LOC. 5 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	90% FED. 10% STATE 0021 INTER- CONNECT	100% LYONS 0021 EVP												
60404950	FRAMES AND GRATES, TYPE 24	EACH	1	1			·	***************************************															
6300400	THE THE PARTY OF THE PARTY AND THE			<u> </u>		•	1		,														
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	ļ	**************************************	1	1	1															
67100100	MOBILIZATION	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16														
70102620	TRAFFIC CONTROL AND PROTECTION,	i. Sum	1	0. 33		0. 33		0.34					Posts services and the services are the services and the services and the services and the services are the services and the services and the services are the services and the services and the services are the services are the services and the services are the services and the services are the services are the services and the services are the										
	STANDARD 701501											opura a gy journ a regue coa - e e coca ca	***************************************										well-resemble resemble and the second se
70102625	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16														
	STANDARD 701606																***************************************						
70102630	TRAFFIC CONTROL AND PROTECTION,	L SUM	I	0. 33	0.33		0. 34																
	STANDARD 701601																						
70102635	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16												\$*************************************		
	STANDARD 701701																						
70102640	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	0.2	0.2		0.2	0, 2	0.2			~~~											
	STANDARD 701801												A TABLE STATE OF THE STATE OF T										
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5475	5475																			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SO FT	155	155																			
	SYMBOLS																						
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3065	3065									***************************************										
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70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1970	1970		-	-																
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	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	135	135			· · · · · · · · · · · · · · · · · · ·														and the second s	pr. 140-151 100 100 100 100 100 100 100 100 100	
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	160	160																			
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	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	2610	2610										Armin									
*	72000100	SIGN PANEL - TYPE 1	SO FT	69		18	15		18	18														
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×	72000200	SIGN PANEL - TYPE 2	SO FT	117.5		22.5	22,5	47.5	12.5	12.5							100							
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*	78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	155	155		· · · · · · · · · · · · · · · · · · ·															Company of the Compan		
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ĺ			,						-															
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3065	3065																			
						-,						~												
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	F00T	3067	1970		~	610	130	357														
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	396	135			261											<u> </u>					
*	78000650	THERMOPLASTIC PAVEMENT WARKING - LINE 24"	FOOT	494	160		34	148	75	77														
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	56	56																			
	78300100	PAVEMENT MARKING REMOVAL	SO FT	1495	·····		68	862	232	333						-								
				.,																				
	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	55	55	1								ANA CANADA CANAD										
Ì		REMOVAL				The state of the s																		
		a CDCCIai TV 1750																		Market State of the Control of the C				
1/1/2	FII,E NAME =	SPECIALTY ITEM USER NAME 1 passonals! DES	IGNED -		REVISED													<u> </u>	<u> </u>	IF.A.F		TION	COUNTY	TOTAL I SHEET
1		cerclaNaO316559V108218-srt-StDaga DRA	WN -		REVISED	-				TATE OF			HAMPHONE			SUMMARY	UE ULIVEIA	ITIES		F.A.F RTE. 372		-0471	COUNTY S	TOTAL SHEET SHEETS NO. 63 7
l		PLOT SCALE = 100,0000 1/ In CHE PLOT DATE = 107,072013 DAT	CKED -		REVISED REVISED				DEPARTM	ENT OF T	HANSPO	RIATION		SCALE	SHEET I	NO. OF			TO STA.	FED.	ROAD DIST. NO. 1	ILLINOIS FED. AT	CONTRACT	NO. 60V34
i.										~~~~~						,						11		

	SUMMARY OF QUANTITIES		URBAN		, c	ONSTRUCTION	ON TYPE CO	DDE	··	·	··		······································		····	······································	·						
			TOTAL	LOC. 1 90% FED.	LOC. 1 90% FED. 7.5% STATE 2.5% LYONS 0021	100. 2 90% FED.	LOC. 3	LOC. 4 90% FED.	LOC. 5 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	90% FED. 10% STATE	100%								***************************************				
CODE NO	ITEM	UNIT	QUANTITIES	10% STATE	7.5% STATE 2.5% LYONS	5% STATE 5% LYONS	10% STATE	6.7% STATE 3.3% LYONS	3.3% LYONS	0021 INTER-	LYONS 0021								***************************************				
				0004 ROADWAY	0021 TRF. SIG.	TRF. SIC.	TRF. SIG.	OO21 TRF. SIG.	TRF. SIG.	CONNECT	EVP								************				
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	5		1	1	1	1	1						-								
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					 		 	ļ	 	 					<u> </u>		<u> </u>				 		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	5264		836	620	1296	816		1696					<u> </u>	ļ	ļ						
	2" DIA.							-					**************************************		- PARTICIPATION OF THE PARTICI				and the constitute	1			
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	242		58	45	88	51	ļ					1				<u> </u>		-			
0.020210			1 1	ļ				31												<u> </u>	<u></u>		
	2 1/2" DIA.																						D-4/18 1848 1841/1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1841/1-1
						ran talenta										1							
81028220	UNDERGROUND CONDUIT. GALVANIZED STEEL.	FOOT	229		48	53	40	88					1								-	<u> </u>	
	3" DIA.				_				 				+	 									
	J UIN.				ļ			A	<u> </u>				 	<u> </u>						<u> </u>			
81028240	UNDERGROUND CONDUIT. GALVANIZED STEEL.	FOOT	1465		454	297	462	252													· ·		
	4" DIA.				l														<u> </u>				
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81400100	HANDHOLE	EACH	19		3	5	6	4	***	1						,					***************************************		
81400200	HEAVY-DUTY HANDHOLE	EACH	13		5	2	4	2	ļ			***************************************							<u> </u>				
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				<u> </u>				-											ļ				
81400300	DOUBLE HANDHOLE	EACH	6		2	1	2	Beech Control			e de la companya de l		ervores ervores								eservicanis ven		
											·	-					<u> </u>						
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	2						 	1		· · · · · · · · · · · · · · · · · · ·											
			-						<u> </u>					1									
	INSTALLATION								ļ					<u> </u>									
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86400100	TRANSCEIVER - FIBER OPTIC	EACH	5		1	1	1	1	ı														
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									 				1	<u> </u>			<u> </u>			 			
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO.	FOOT	4723							4723			-	<u> </u>		ļ	<u></u>						
	14 1C			And a second sec							***************************************		1		Рафилина	**************************************	***************************************		***************************************				
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	3105		1323	l	1392	228	162					 			<u> </u>				1		
			2103				, , , ,	***					-	 			 	ļ		 		<u> </u>	
	14 2C												1								<u> </u>		
Harmen	· SPECIALTY ITEM				***				1		***************************************		1		PATRICIA DE LA CONTRACTOR DE LA CONTRACT					***************************************			THE CONTROL OF THE CO
ILE NAME =	\$	DESIGNED -	<u> </u>	REVISED		<u> </u>	L	L	<u> </u>	L	L		1	1	J	<u> </u>	<u> </u>	<u></u>	F	P. SF	CTION	COUNTY	TOTAL SHEET SHEETS NO.
\p+_work\p+ldor\plasc	cenciana03:6539/Pi082/2:srr-Si0aga PLDT SCALE = 100.0000 * / In.	DRAWN - CHECKED -		REVISED REVISED			_		TATE OF		TATIO*1				SUMMARY	OF QUANT	ITIES		F.A. RYE 372	201	2-047[COOK	63 8
	1 - CO 1 SURCE - NOVACKA / MC	DATE -		REVISED			į į	rceau i ivi	ENT OF 1	INAINOPUI	MUIIAI	Į.	SCALE		10. OF			TO STA,				CONTRACT	NO. 60V34

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	SUMMARY OF QUANTITIES	-	URBAN		C	ONSTRUCTIO	ON TYPE CO	DOE			1			1	1			<u></u>	1	1	1		
CODE NO	ITEM	UNIT	TOTAL OUANTITIES	LOC. 1 90% FED. 10% STATE 0004 ROADWAY	LOC. 1 90% FED. 7.5% STATE 2.5% LYONS 0021 TRF. SIG.	LOC. 2 90% FED. 5% STATE 5% LYONS 0021 TRF. SIG.	LOC. 3 90% FED. 10% STATE 0021 TRF. SIG.	LOC. 4 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	LOC. 5 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	90% FED. 10% STATE 0021 INTER- CONNECT	100% LYONS 0021 EVP												
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	4730		1675		1776	598	169		512												
	14 3C																					***************************************	
		<u> </u>										<u> </u>			<u> </u>		<u> </u>						
87301245	ELECTRIC CABLE IN CONDUIT. SIGNAL NO.	FOOT	7083		1822	2020	1548	1693			ļ	<u> </u>		 									
	14 5C	<u> </u>									ļ												
		ļ									<u> </u>								<u> </u>				
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	4077		1512	681	1570	314															
01301233			3011		1312	001	1310	3,3			ļ												
	14 70	<u></u>											10044V400	<u> </u>									
									ļ					<u> </u>		<u> </u>							
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.	FOOT	8332		2143	1535	3647	1007			ļ	ļ		ļ									
	14 1 PAIR										ļ						<u> </u>						
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.	FOOT	350		62	32	70	186											<u></u>				
	6 2 C							 															
														- ANAMES ANA									
87301900	ELECTRIC CABLE IN CONDUIT. EQUIPMENT	FOOT	2359		603	500	638	618						THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM									
	GROUNDING CONDUCTOR, NO. 6 1C							-											A CONTRACTOR OF THE PROPERTY O				
		 																*					
87502480	TRAFFIC SIGNAL POST. GALVANIZED STEEL	EACH	3			2			1														
	14 FT.							***************************************			_												
										·	<u></u>		***************************************							 			
87502500	TRAFFIC SIGNAL POST. GALVANIZED STEEL	EACH	12		4		4	<u> </u>	2		 					<u> </u>							
0,00200	16 FT.							<u> </u>			ļ						,						
		ļ									1												
											<u> </u>					<u> </u>		41					
87502520		EACH	1					1	ļ														
	18 FT.												***					ļ			<u> </u>		
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87700120	STEEL MAST ARM ASSEMBLY AND POLE, 16 FT.	EACH	1					1					***************************************										
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87700150	STEEL MAST ARM ASSEMBLY AND POLE. 22 FT.	EACH	1					1												<u></u>			
	* SPECIALTY ITEM			-												1	The state of the s						
FILE NAME :		SIGNED -		REVISED REVISED			I	ــــــــــــــــــــــــــــــــــــــ	TATE OF	ILLINOIS	 		<u> </u>	1	1	1	1	1	F.A.S RTE. 372	SE	TCTION 2-0471	COUNTY	TOTAL SHEET SHEETS NO. 63 9
	PLOT SCALE = 100,0000 1/ /n. CH	ECKED -		REVISED REVISED					ENT OF			-	SCALE	SHEET	SUMMARY NO. OF			TO STA.			Z-Q471 I ILLINOIS FED. A	CONTRACT	NO. 60V34

100010 1754 MAST ANN ASSENDEY AND POLE, 26 FT. EACH 2 1 1 1 1 1 1 1 1 1	
27700170 STEEL WAST ARM ASSEMBLY AND POLE, 30 FT, EACH 2 2 1	
87700210 STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700210 STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700210 STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700210 STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700220 STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. EACH 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700230 STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700230 STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700240 STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. EACH 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
87700240 STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. EACH 2 1 1 1	
87800100 CONCRETE FOUNDATION, TYPE A FOOT 52 16 12 16 8	
87800150 CONCRETE FOUNDATION, TYPE C FOOT 16 4 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
87800150 CONCRETE FOUNDATION, TYPE C FOOT 16 4 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH FOOT 161.5 47 40.5 33.5 DIAMETER	
87800400 CONCRETE FOUNDATION, TYPE E 30-INCH FOOT 161.5 47 40.5 33.5 DIAMETER	
DIAMETER	
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH FOOT 26 13 13 13	
87800415 CONCRETE FOUNDATION, TYPE E 36-INCH FOOT 26 13 13	
DIAMETER	
87900200 DRILL EXISTING HANDHOLE EACH 2 2	
88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, EACH 31 6 8 8 5 4	
MAST-ARM MOUNTED	
* SPECIALTY ITEM	
FILE NAME 2 USER NAME = plastencled DESIGNED - REVISED - AND MAIN PLANTIFIES STATE OF ILLINOIS STATE OF ILLINOIS SIMMARRY OF QUANTITIES 372 2012-047	TOTAL I SUEET
PLOT SCALE : RODOGO / / In. CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION PLOT DATE : IO/ROZOG DATE - REVISED - DEPARTMENT OF TRANSPORTATION SCALE: SHEET NO. OF SHEETS STA. YO STA. FED. ROAD DIST. NO. 1 ILLIA	COUNTY SHEETS NO. COOK 63 10

	SUMMARY OF QUANTITIES		URBAN			ONSTRUCTIO	ON TYPE CO	DOE	1	1	T	т				T	7	т		T	T		
CODE NO	ITEM	UNIT	1 1	0004	LOC. 1 90% FED. 7.5% STATE 2.5% LYONS 0021 TRF, SIG.	LOC. 2 90% FED. 5% STATE 5% LYONS 0021 TRF. SIG.	LOC. 3 90% FED. 10% STATE 0021 TRF. SIG.	LOC. 4 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	10C. 5 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	90% FED. 10% STATE 0021 INTER- CONNECT	100% LYONS 0021 EVP	fritansiana paramatan panamatan panamatan panamatan panamatan panamatan panamatan panamatan panamatan panamatan											
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	3					1	2														
	BRACKET MOUNTED	 														 							·
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	8			2	4		2		Todan Maria Maria						<u> </u>						
	BRACKET MOUNTED	<u> </u>																	<u> </u>			and remaind remainded an anabour with	/
		 								 						 							
88030110	SIGNAL HEAD. LED. 1-FACE. 5-SECTION.	EACH	13		4	2	4		2	 						<u> </u>			<u> </u>				
	MAST-ARM MOUNTED	<u> </u>						veren en e			-		rest de la constant d						1		<u> </u>		
								-													a and a second s		
88030210	SIGNAL HEAD. LED. 2-FACE. 3-SECTION.	EACH	3	·		2		1						1		<u> </u>			<u> </u>			 	
	BRACKET MOUNTED	<u> </u>																					
		<u> </u>											and the second						1				
88030240	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION.	EACH	5		4			1					***************************************										
	1-5 SECTION, BRACKET MOUNTED	1						***************************************					***************************************						 				
	E. C. ORO-15014 DIMONE, MODISED							VOLUME 1		<u> </u>													
89102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,	EACH	18		6		4	2	6	<u> </u>							<u> </u>	<u> </u>					
88102717		EAGN	10		•			4		ļ			The state of the s						-				
	BRACKET MOUNTED WITH COUNTDOWN TIMER							V 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					-	ļ		<u></u>		<u> </u>	 				
		<u> </u>	_	· · · · · · · · · · · · · · · · · · ·	_					<u> </u>							<u> </u>						
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE.	EACH	3		1		2									ļ		ļ					
	BRACKET MOUNTED WITH COUNTDOWN TIMER	<u> </u>																					
		ļ								ļ			ļ		-			ļ					
88200210	TRAFFIC SIGNAL BACKPLATE. LOUVERED,	EACH	44	·	10	10	12	6	6	ļ	ļ					<u> </u>		ļ	<u> </u>				
	ALUM NUM													ļ									
		·;								<u> </u>												<u></u>	
88500100	INDUCTIVE LOOP DETECTOR	EACH	39		9	7	12	5	6	ļ				ļ									

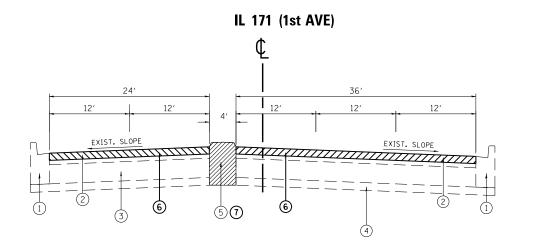
88600100	DETECTOR LOOP. TYPE !	FOOT	2349		791	541	680	337					**************************************										

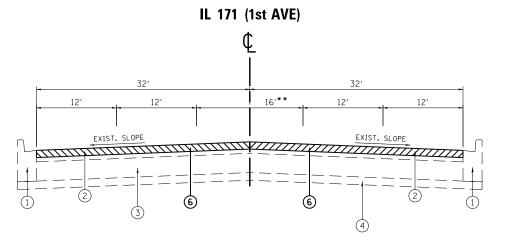
88700200	LIGHT DETECTOR	EACH	11					Ammanda e e e e e e e e e e e e e e e e e e e			11												
								Volume 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1															
	* SPECIALTY ITEM																						
FILE NAME =		ESIGNED -		REVISED REVISED			L	5	TATE OF	ILLINOIS	J	Ή	<u>I</u>	1	L	1	I.		F.A. RTE	P. SE	CTION	COUNTY	TOTAL SHEET SHEETS NO.
an year access in quantity of quality	PLBT \$CALE : 100,0000 1/ In C	HECKED -		REVISED REVISED	-		1			TRANSPO		}-	SCALE	SHEET	SUMMARY NO. OF			TO STA.		ROAD DIST, NO.	2-0471	COOK CONTRACT	63 II NO. 60V34

	SUMMARY OF QUANTITIES		URBAN			ONSTRUCTIO	N TYPE CO	DE											1				
CODE NO		UNIT	TOTAL QUANTITIES	LOC. 1 90% FED. 10% STATE 0004 ROADWAY	LOC. 1 90% FED. 7.5% STATE 2.5% LYONS 0021 TRF. SIG.	LOC. 2 90% FED. 5% STATE 5% LYONS 0021 TRF. SIG.	LOC. 3 90% FED. 10% STATE 0021 TRF. SIG.	LOC. 4 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	LOC. 5 90% FED. 6.7% STATE 3.3% LYONS 0021	90% FED. 10% STATE 0021 INTER- CONNECT	100% LYONS 0021 EVP			ш. малания применя при								деления при	
8870030	D LIGHT DETECTOR AMPLIFIER	EACH	5	AUADBAI	18F. 31Q.	110, 310.		116 , 310.	1111 - 310-		5												''
-																		<u> </u>			<u> </u>		
8880010	D PEDESTRIAN PUSH-BUTTON	EACH	24		8		8	2	6														
8880010	PEDESITIAN FUSH-BUTTON	EACH	27			A		<i>5</i> ,													,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
													-					-					
8900010	D TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	4		1	1	1	1															
																				<u>.</u>			
8950237	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5		1	1	1	1	1				VILLE TO THE PARTY OF THE PARTY										
											_					-							
8950238	O REMOVE EXISTING MANDHOLE	EACH	37		7	8	12	6		4	,												
8950238	REMOVE EXISTING DOUBLE HANDHOLE	EACH	4		1	1	1	l															
						·		,											-				
		-																					······································
8950238	S REMOVE EXISTING CONCRETE FOUNDATION	EACH	34		10	8	10	6															
		and the second s							-					ļ					<u> </u>				
X032408	5 EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	1493								1493												
	SENSOR CABLE. NO. 20 3/C																						

□ x553780	STORM SEWERS TO BE CLEANED 12"	FOOT	200	200																			
			And the second s											<u> </u>			-						***************************************
* X603031	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	12	12																			
		<u> </u>							an julian jara kanganjaran nyi wanya mwa ka					 					1				
×857022	6 FULL-ACTUATED CONTROLLER AND TYPE IV	EACH	4		1			1	1			<u> </u>											
A851022		EACH						<u> </u>	•														
	CABINET, SPECIAL												<u> </u>		-								· · · · · · · · · · · · · · · · · · ·
				ļ										<u></u>	-								
X857023	FULL-ACTUATED CONTROLLER AND TYPE V	EACH	1				1											-					
	CABINET, SPECIAL																		-				
x860010	MASTER CONTROLLER (SPECIAL)	EACH	1				1																
x862020	O UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	5		1	1	1	1	ı														**************************************
14	* SPECIALTY ITEM														77144								
FILE NAME =		IGNED -		REVISED REVISED				s	TATE OF	ILLINOIS			••••			-			F.A.F RTE 372	SE(CTION 2-0471	COUNTY	TOTAL SHEET SHEETS NO. 63 12
	PLOT SCALE = 100,0000 1/ /A CHE	CKED -		REVISED REVISED	•		1	DEPARTM				-	SCALE:	SHEET	SUMMARY NO. OF			TO STA.		ROAD DIST. NO. 1		CONTRACT	NO. 60V34

ſ		SUMMARY OF QUANTITIES		URBAN		C	ONSTRUCTION	ON TYPE C	ODE															
2512	CODE NO	ITEM	UNIT	TOTAL OUANTITIES	1 0004	LOC. 1 90% FED. 7.5% STATE 2.5% LYONS 0021	LOC, 2 90% FED. 5% STATE 5% LYONS 0021 TRF, SIG.	LOC. 3 90% FED. 10% STATE 0021 TRF. SIG.	LOC, 4 90% FED. 6.7% STATE 3.3% LYONS 0021 TRF. SIG.	LOC. 5 90% FED. 6.7% STATE 3.3% LYONS 0021	90% FED. 10% STATE 0021 INTER- CONNECT	100% LYONS 0021 EVP		***************************************	ates de transcentes en conservations			ente de companya d		TO A STATE OF THE				
	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO.	FOOT	4723	HUAUWAT	TRF. SIG.	1MF. 516.		IRF. 516.	187, 516,	4723	······································					 							······································
		62.5/125, MM12F SM24F			ļ		···········													<u></u>				
		DZ. OZ 1439, MONIZE SMZ-F		 	-		[
												·												·····
	Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	368	260			41	43	24	 			<u> </u>		_	<u> </u>							
		REMOVAL AND REPLACEMENT										· · · · · · · · · · · · · · · · · · ·												
			NAME OF THE PARTY																					
□•	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	7	7																			
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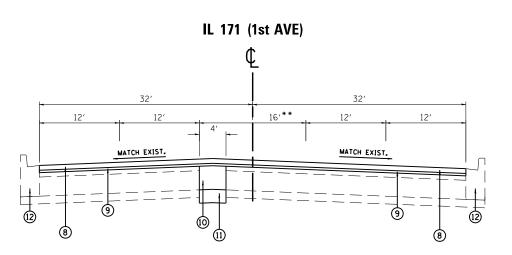
**VARIES BETWEEN PAINTED MEDIAN AND LEFT TURN LANE. SEE PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS.

EXISTING TYPICAL SECTION

STA. 93+81 TO 94+93

EXISTING TYPICAL SECTION

STA. 91+64.5 TO 93+81 STA. 94+93 TO 97+90



LEGEND

- 1) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (2) EXISTING HMA SURFACE COURSE, VARIES 4"±
- 3 EXISTING PCC BASE COURSE, VARIES 10"±
- 4 EXISTING SUBBASE GRANULAR MATERIAL, 6"
- (5) EXISTING CONCRETE MEDIAN
- 6 PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 21/2"
- 7 PROPOSED MEDIAN REMOVAL
- 8 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 13/4"
- 9 PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50, 3/4"
- 10 PROPOSED HOT-MIX ASPHALT BASE COURSE, 9"
- 11) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (2) PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)

PROPOSED TYPICAL SECTION

STA. 93+81 TO 94+93

PROPOSED TYPICAL SECTION

STA. 91+64.5 TO 93+81 STA. 94+93 TO 97+90

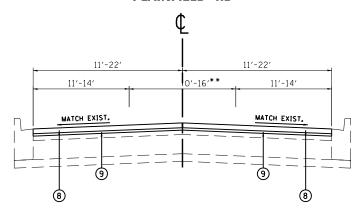
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EXISTING TYPICAL SECTION

STA. 6+9.96 TO 14+7.80

**VARIES BETWEEN PAINTED MEDIAN AND LEFT TURN LANE. SEE PAVEMENT MARKING PLAN SHEETS FOR LOCATIONS.

PLAINFIELD RD



PROPOSED TYPICAL SECTION

STA. 6+9.96 TO 14+7.80

LEGEND

- 1) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- 2) EXISTING HMA SURFACE COURSE, VARIES 4"±
- (3) EXISTING PCC BASE COURSE, VARIES 10"±
- (4) EXISTING SUBBASE GRANULAR MATERIAL, 6"
- (5) EXISTING CONCRETE MEDIAN
- (6) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 21/2"
- 7) PROPOSED MEDIAN REMOVAL
- (8) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 13/4"
- (9) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50, 3/4"
- (10) PROPOSED HOT-MIX ASPHALT BASE COURSE, 9"
- (1) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATIONS TO BE DETERMINED BY THE RESIDENT ENGINEER)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE TYPE	AIR VOIDS @ N _{DES}
ROADWAY	POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL-9.5 mm)	4% @ 90 GYR
ROADWAT	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR
BASE COURSE	HMA BASE COURSE (HMA BINDER IL-19 mm)	4% @ 90 GYR
PATCHING	CLASS D PATCHES, (HMA BINDER IL-19 mm)	4% ⊚ 70 GYR
PATCHING	HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR

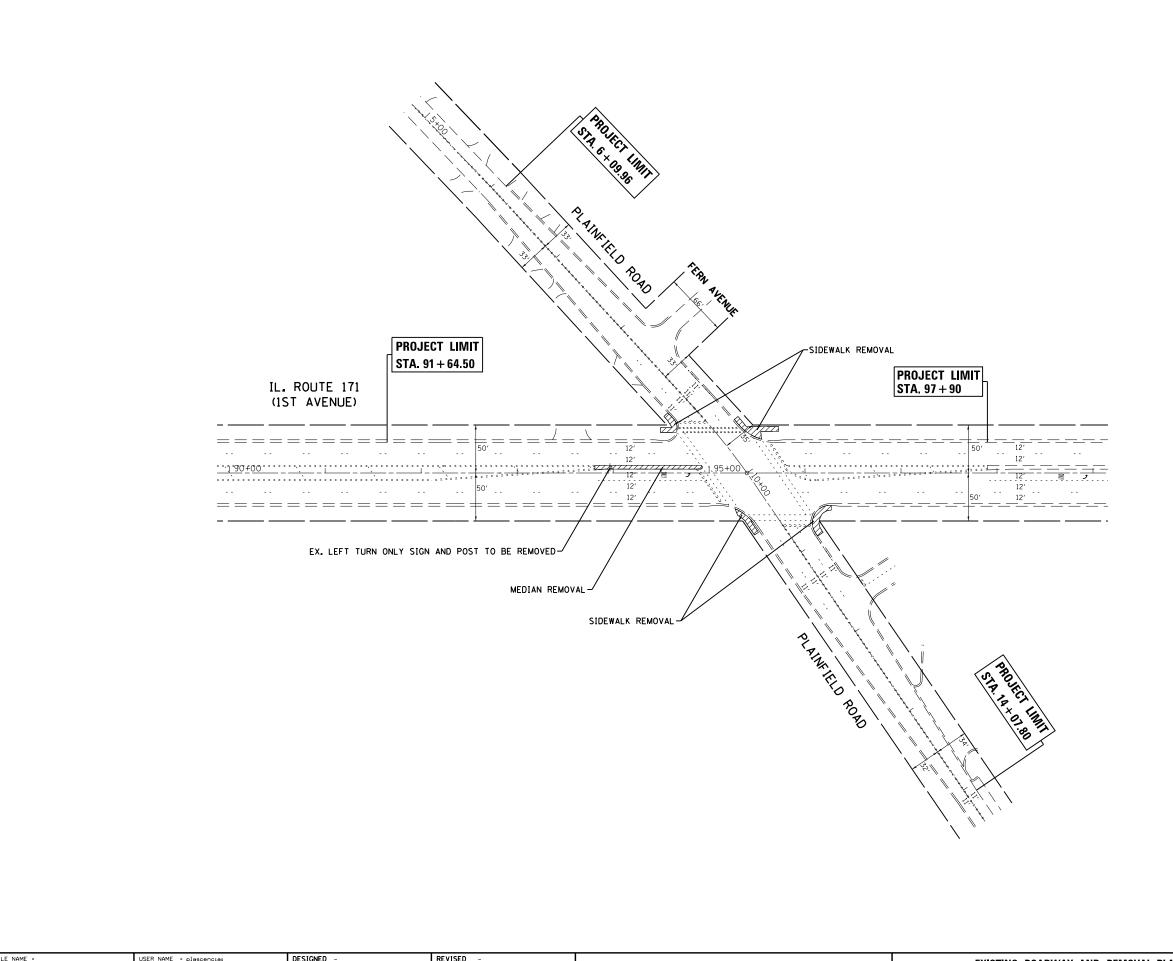
- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22"

 AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22"

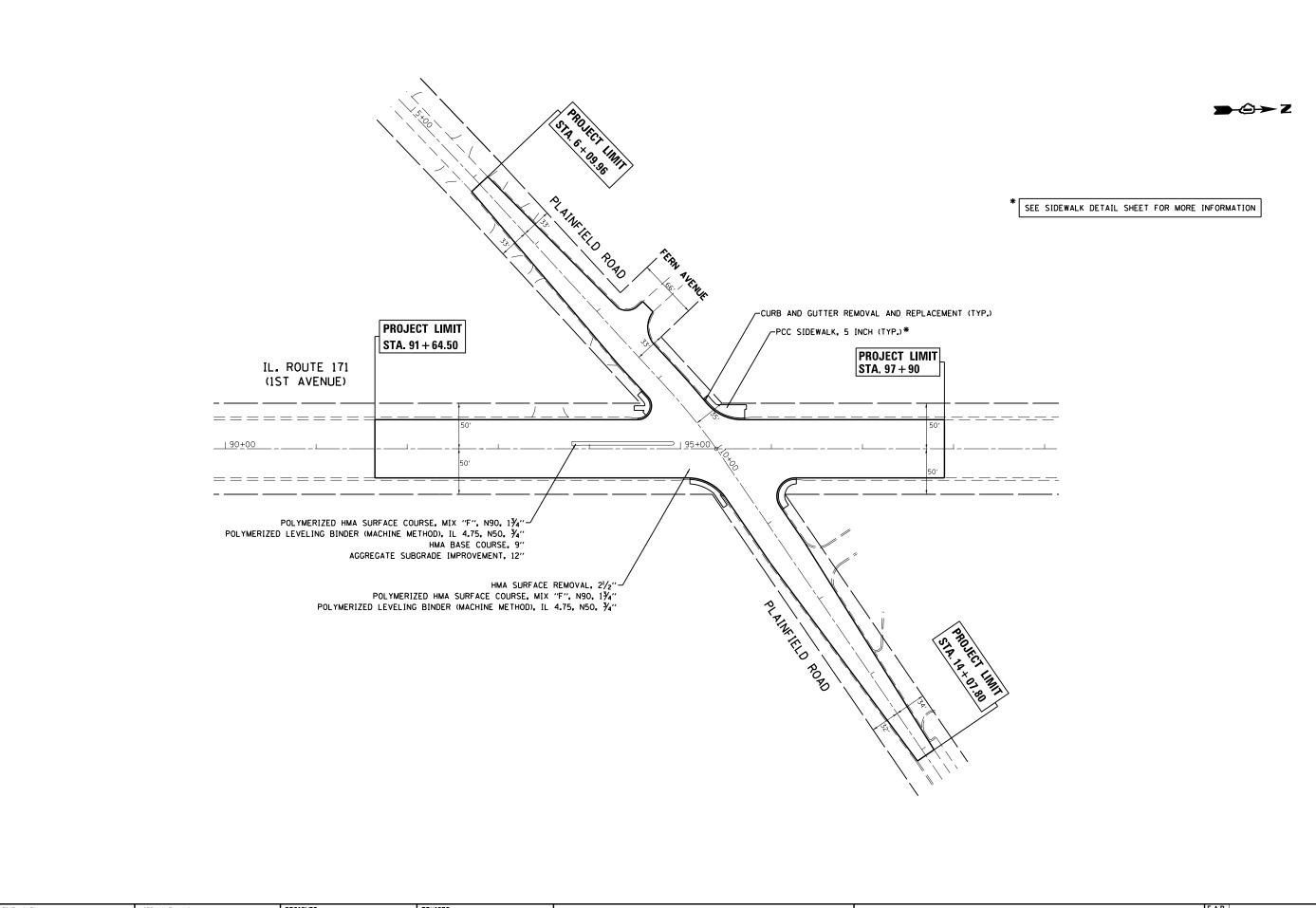
 UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

 FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
- NOTE 3: THE CONTRACTOR SHALL PATCH BEFORE MILLING.

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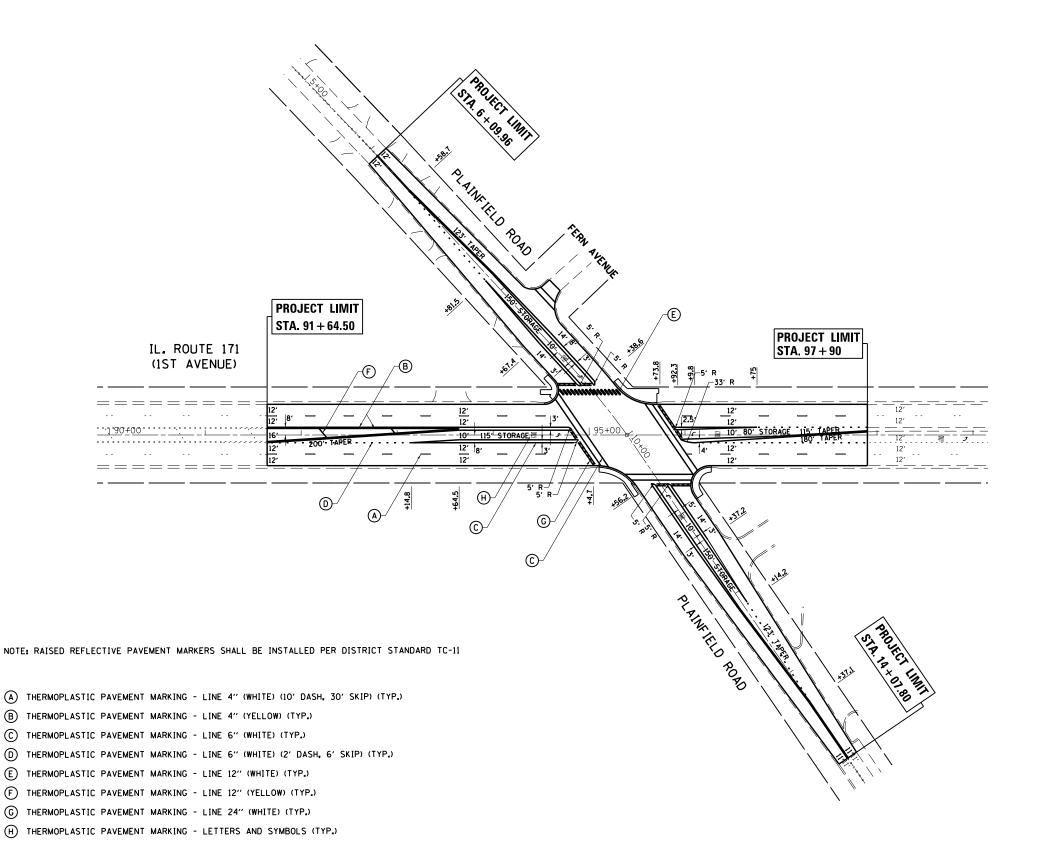


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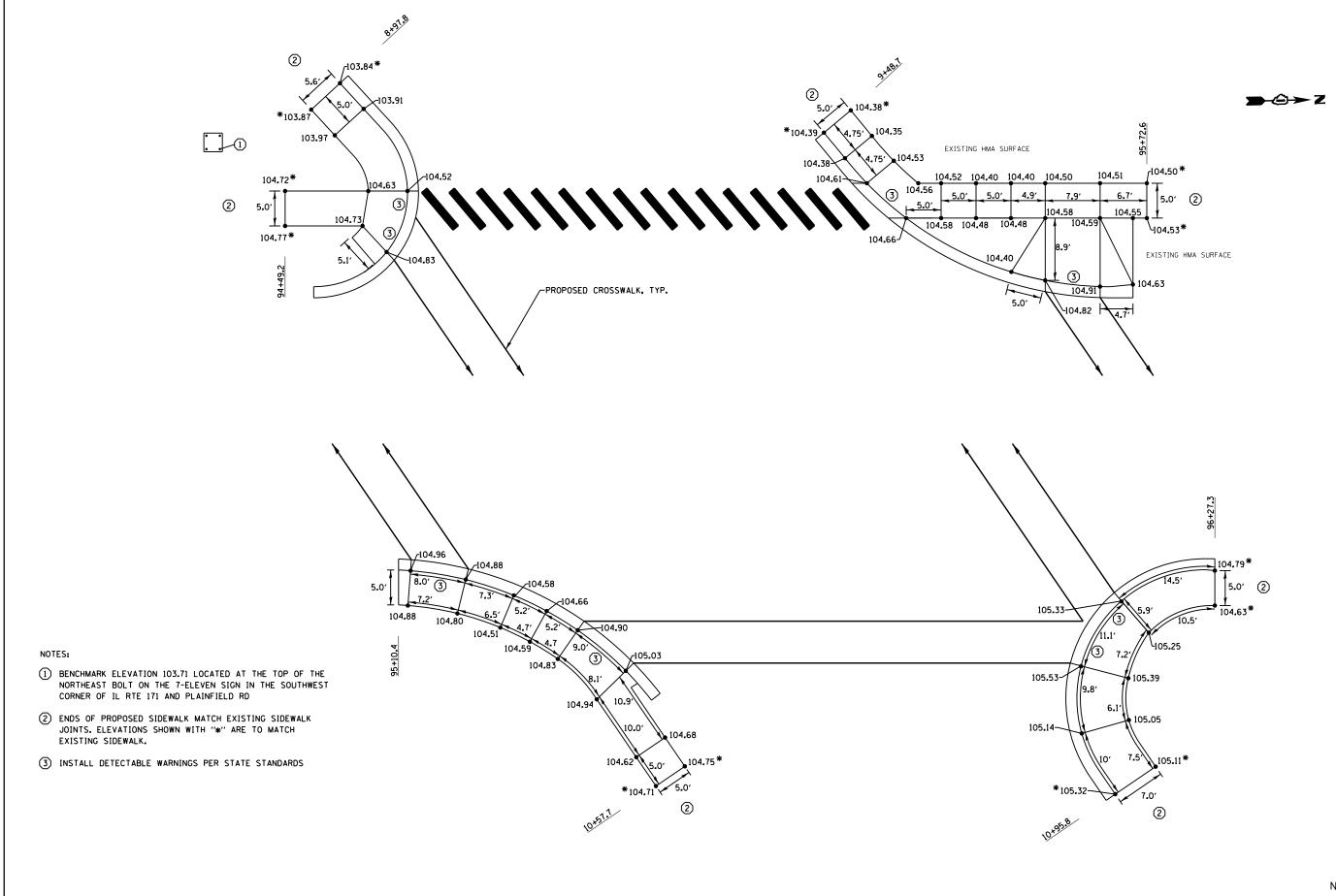


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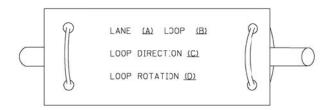
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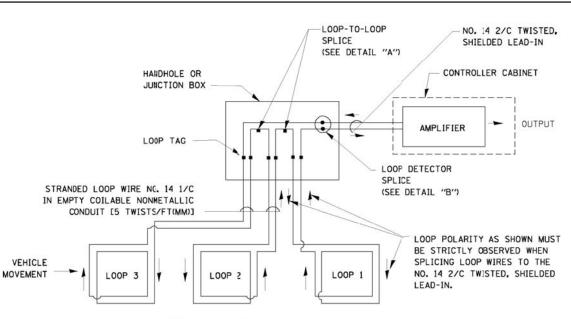
LOOP DETECTOR NOTES

- 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 SWALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE FANDHOLE. 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 HANDHCLE 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 DETECTOF 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 LOCPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LCOP LEAD-IN CABLE TAG

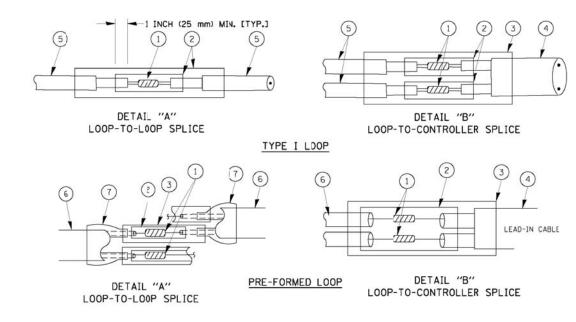


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL EE 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

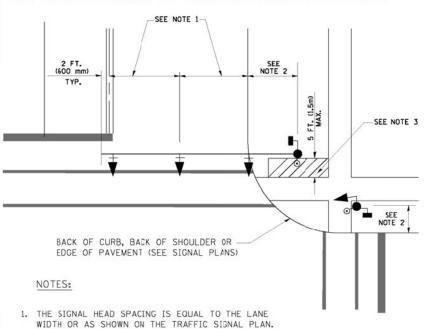
- $\begin{tabular}{ll} \hline \end{tabular}$ Western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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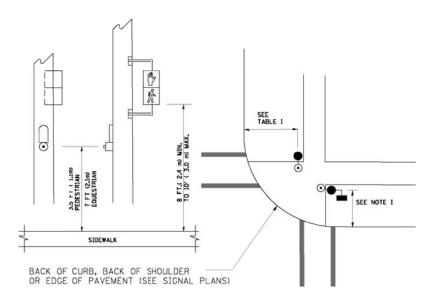
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



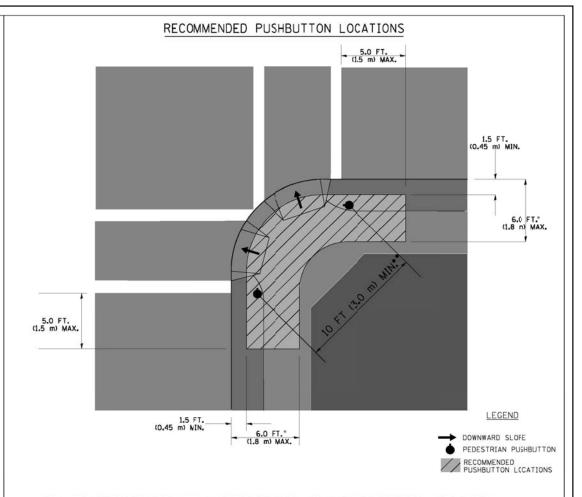
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE WAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PRCVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL FOST 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 EUILDINGS 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:

- 1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HCUSING 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 FOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL 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 (O.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.

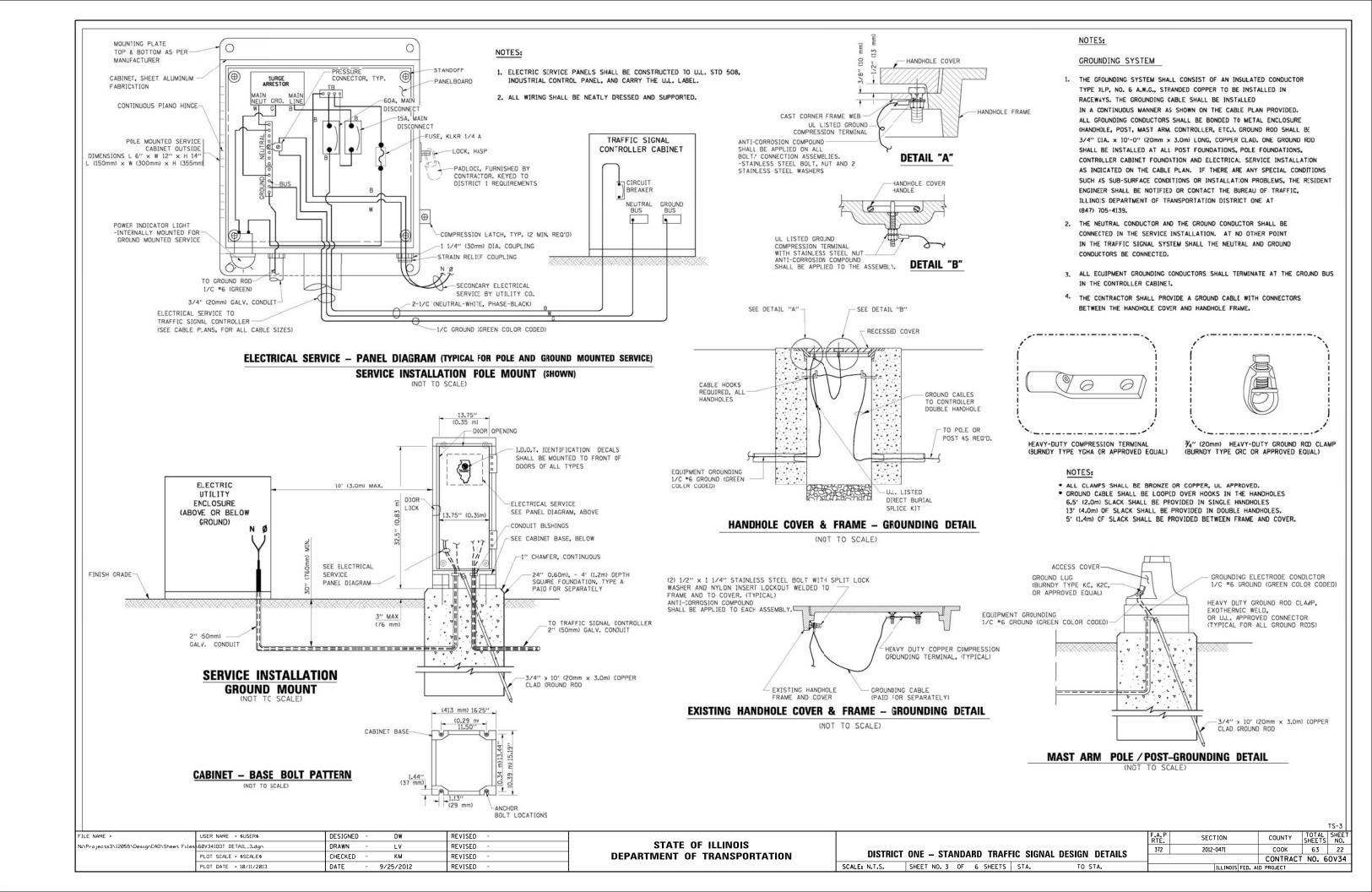
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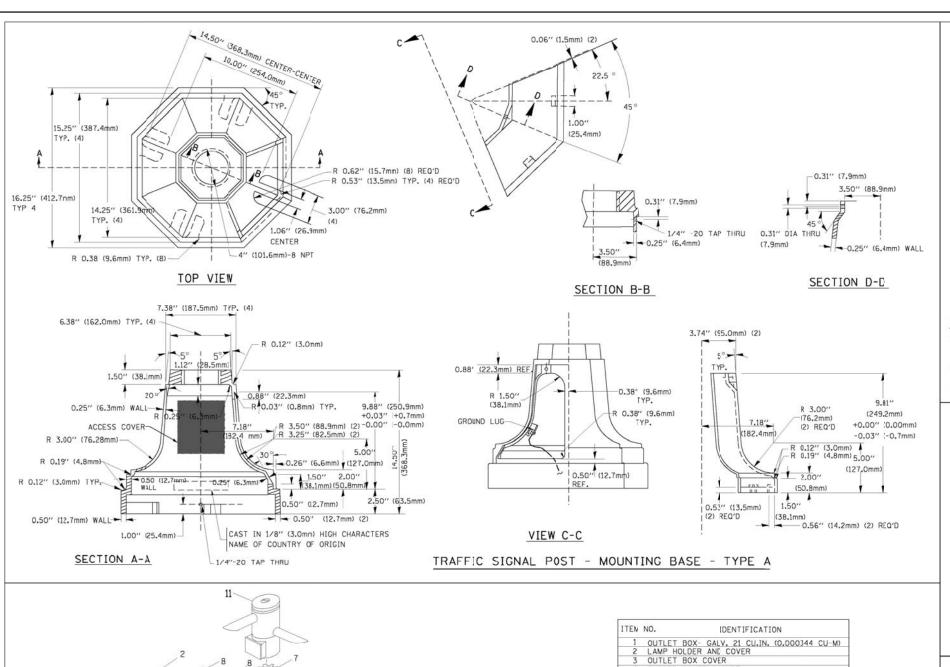
- CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM DIFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVENENT TO THE 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 PEDESTR:AN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

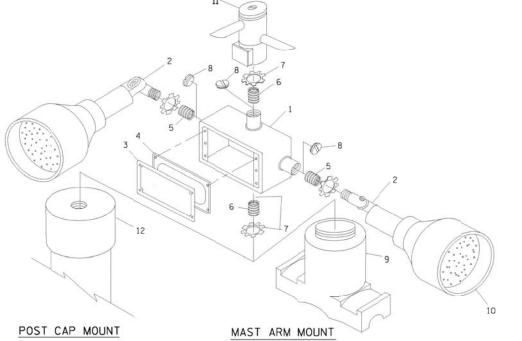
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

							F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DISTRICT O	NE – STA	MDAD	n	TDAEEIC	SIGNAL DES	IGN DETAILS	372	2012-047I	COOK	63	21
י וטוחונוע	INE - SIA	NUAN	<u> </u>	INAFFIC	SIGNAL DES	DIGIN DETAILS			CONTRACT	NO. 6	0V34
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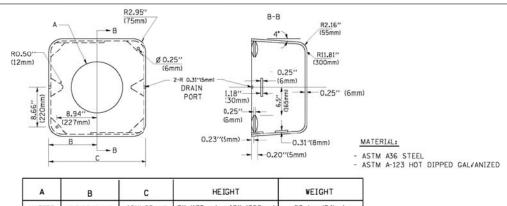






RUBBER COVER GASKET REDUCING BUSHING '(19 mm) CLOSE NIPPL (19 mm) LOCKNUT 74"(19 mm) HOLE PLUG SADDLE BRACKET - GALV. 6 WATT PAR 38 LED FLOOD LAMP

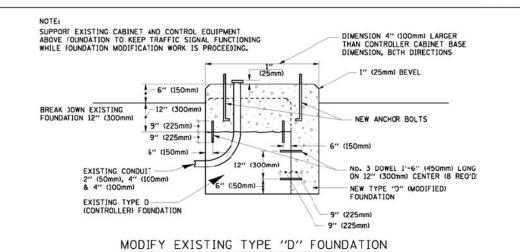
- . ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-:T" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP CF THE CAP BY DRILLING AND TAPPING A $\frac{1}{4}$ "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 bs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 bs (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 bs (57 kg)

SHROUD

- CIMENSION "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.



GALVANIZED STEEL HOOKS EXISTING CONDUIT 21 ½" MIN. (545mm) CONDUIT BUSHING EXISTING CONDUIT PLAN ELEVATION

NOTES:

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

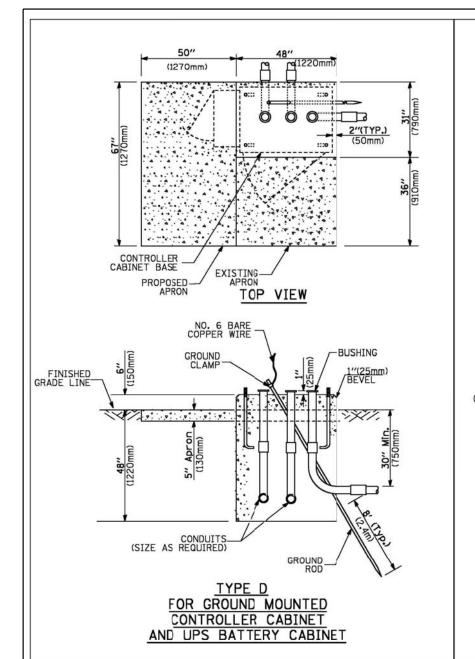
HANDHOLE TO INTERCEPT EXISTING CONDUIT

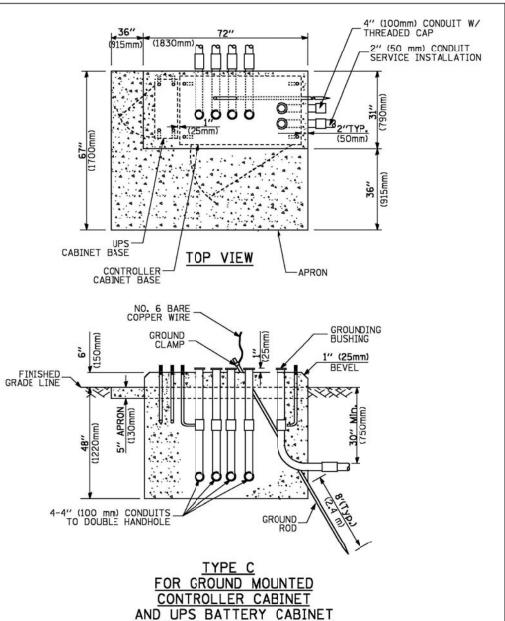
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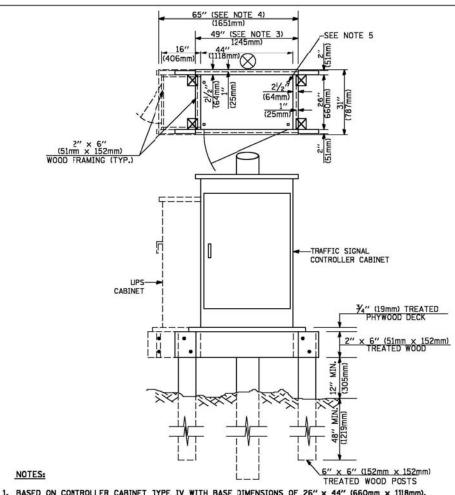
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TOTAL SHEE SHEETS NO. SECTION COUNTY 372 2012-0471 COOK 63 23 DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 60V34 SHEET NO. 4 OF 6 SHEETS STA.







- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 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.
- 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	WETER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

ERTICAL 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
RACKET 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
OUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND WOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Nast 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:

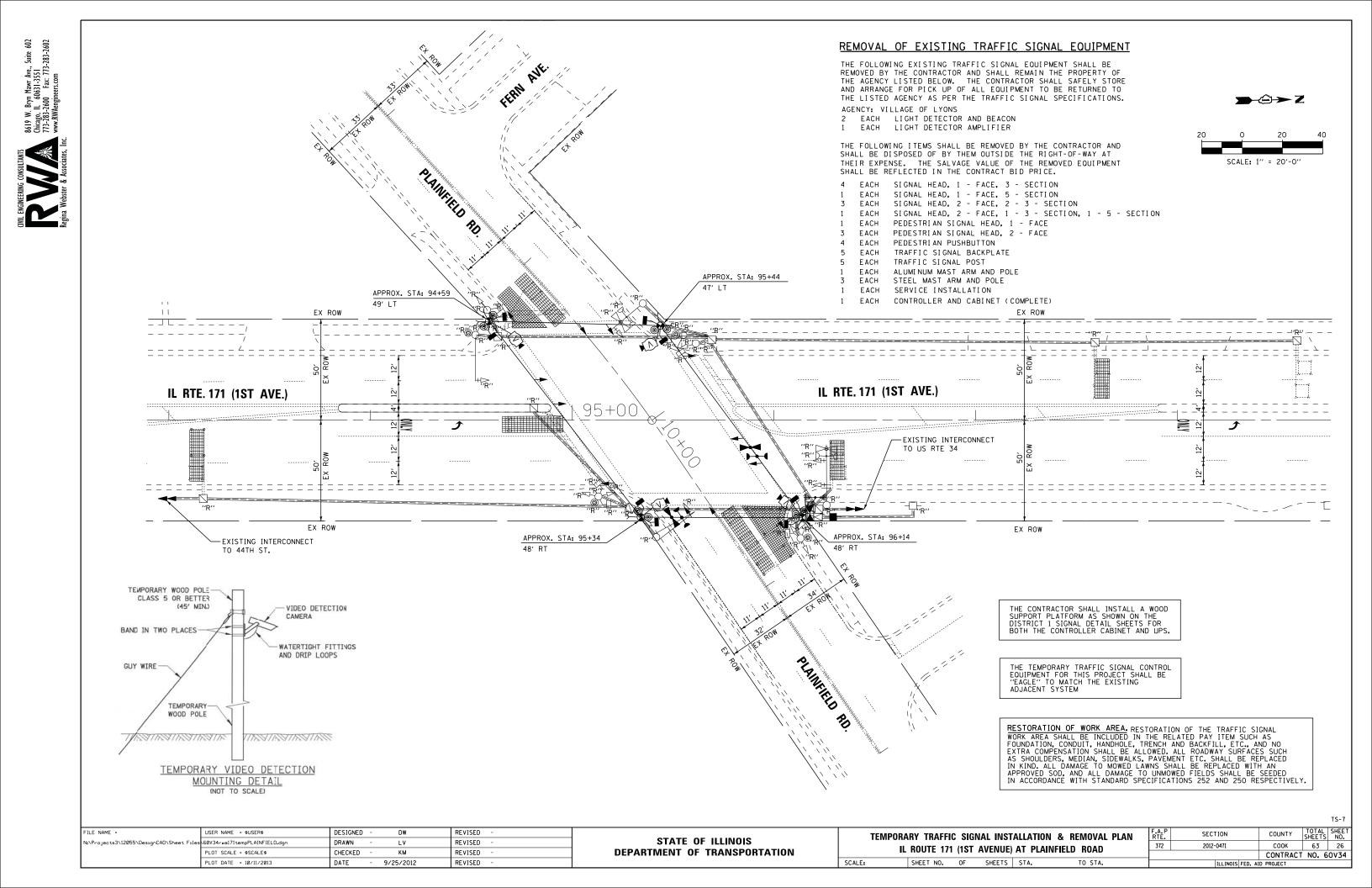
- These foundation depths are for sites which have cohesive soils (clayer slit, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during 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.
- Combination most arm assembles 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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TRAFFIC SIGNAL LEGEND

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NOTES FOR TEMPORARY TRAFFIC SIGNALS

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- 2) ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3) ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS, PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT RAILROAD INTERSECTIONS. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4) ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES . RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5)ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 5) THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7)UNINTERRUPTIBLE POWER SUPLY (UPS) SYSTEM SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- 3) TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- D) WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

		I. D. O	. т.					
	TRAFFIC S	I GNAL I	NSTALLA	TION				
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS				
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	12	1 35	17	0.50	102			
(YELLOW)	12	1 35	25	0.25	75			
(GREEN)	12	1 35	15	0.25	45			
ARROW	4	1 35	12	0.10	5			
PED. SIGNAL	8	90	25	1.00	200			
CONTROLLER	1	100	100	1.00	100			
VIDEO SYSTEM	1	150	-	1.00	150			
				TOTAL =	677			
ENERGY COSTS- BILLED TO: IDOT - DISTRICT 201 W. CENTER CT. SCHAUMBURG, IL 60196 ENERGY SUPPLY - CONTACT JOE STACHO PHONE 630-424-5704								

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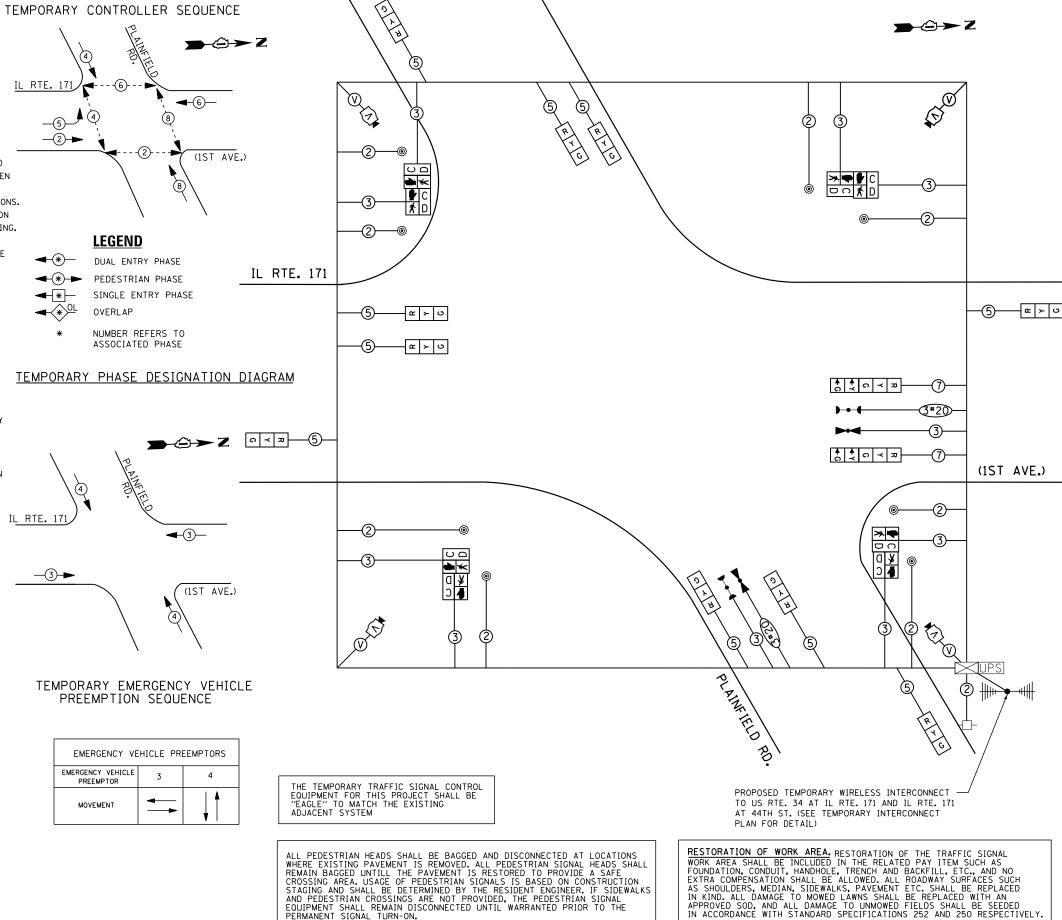
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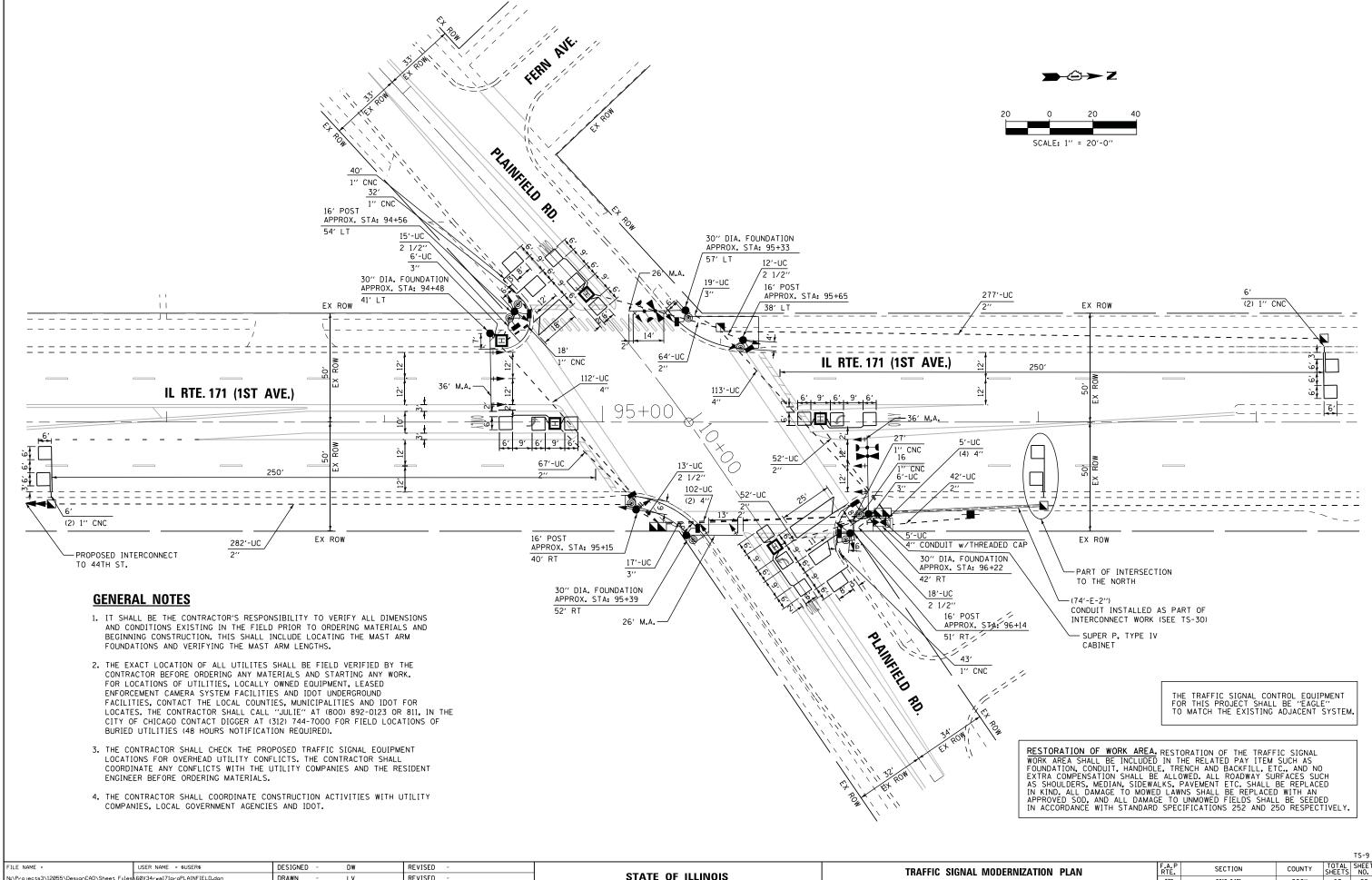
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PERMANENT SIGNAL TURN-ON.

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM & TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE IL ROUTE 171 (1ST AVE.) AT PLAINFIELD ROAD SHEET NO. OF SHEETS STA.

SECTION COUNTY 372 2012-0471 COOK 63 27 CONTRACT NO. 60V34





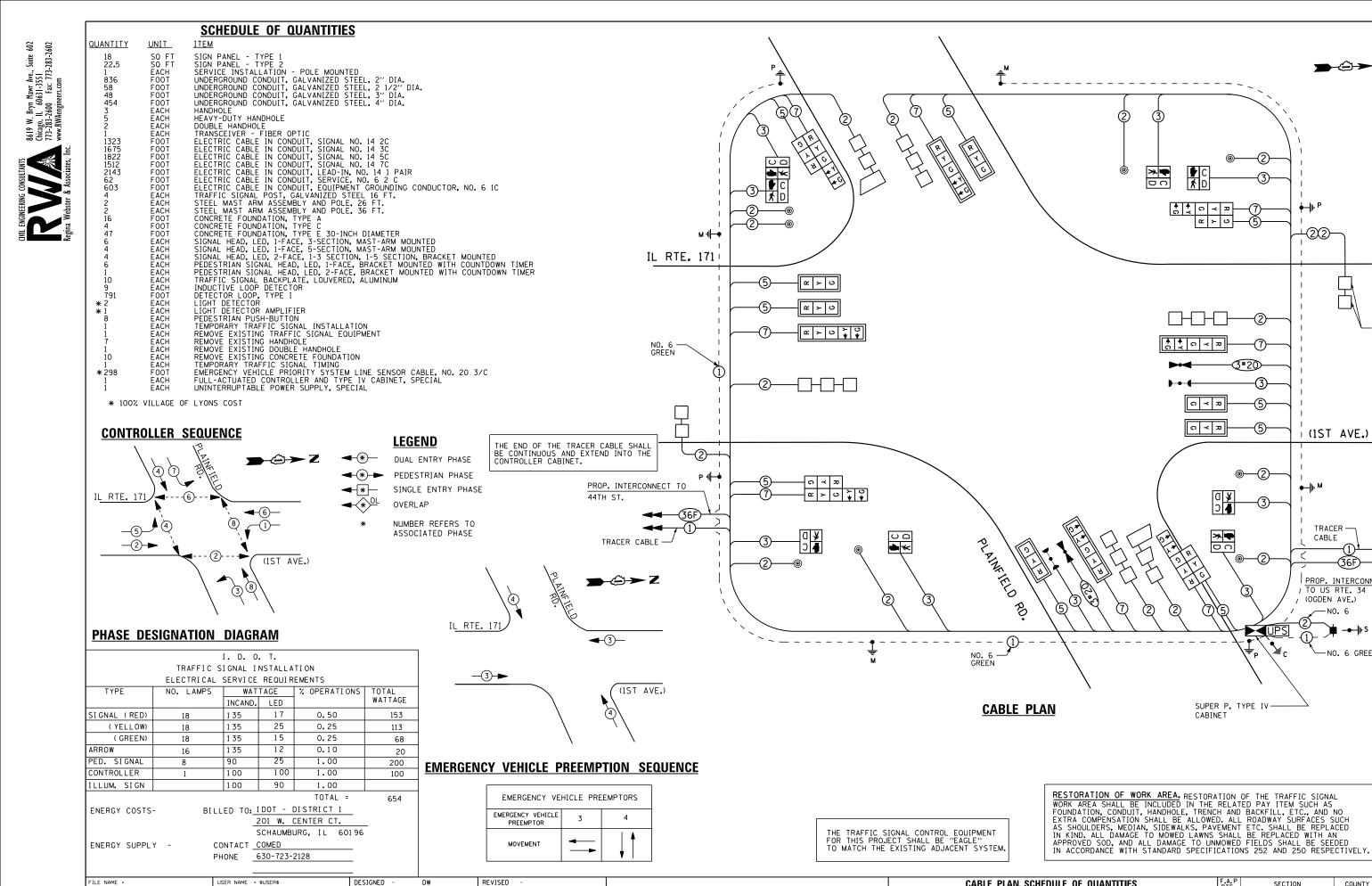
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	PLOT DATE = 10/11/2013	DATE	-	9/25/2012	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

	TRAFFIC	SIGN	IAL MODER	F.A.P RTE.	F.A.P RTE. SECTION			
ROUTE 171 (1ST AVENUE) AT PLAINFIELD ROAD							2012-047I	Ĺ
_	NOUTL 171	(131	AVENUE, A			ī		
	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	c

| CONTRACT NO. 60V34



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGNATION DIAGRAM & EVP SEQUENCE IL ROUTE 171 (1ST AVE.) AT PLAINFIELD ROAD SCALE: N.T.S. SHEET NO. OF SHEETS STA.

TOTAL SHEET SHEETS NO. SECTION COUNTY 372 2012-0471 COOK 63 29 CONTRACT NO. 60V34

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-INTERSECTION & SAMPLING (SYSTEM)

DETECTORS

-22

(1ST AVE.)

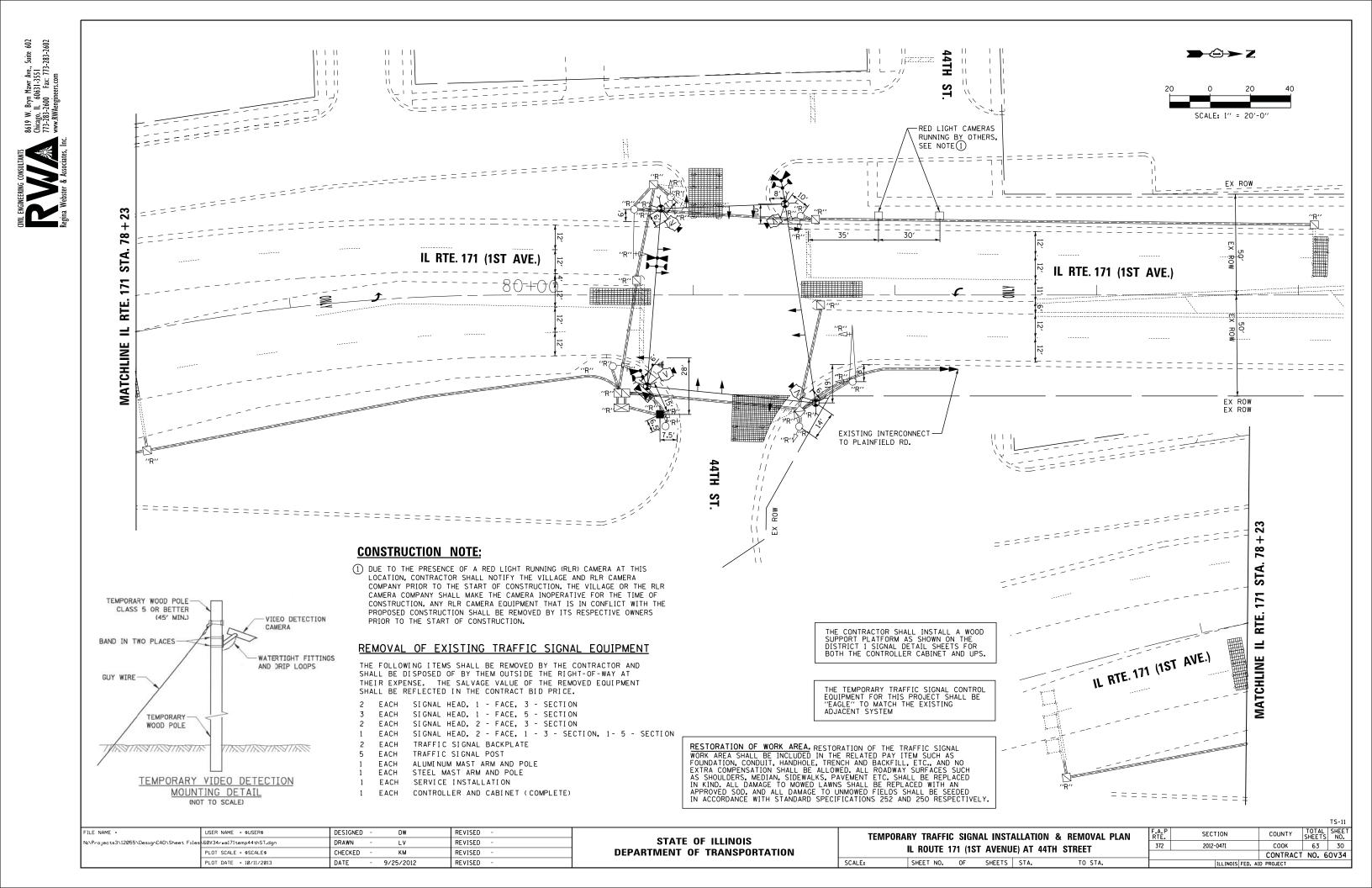
TRACER

(OGDEN AVE.) -NO. 6

PROP. INTERCONNECT 1 TO US RTE. 34

NO. 6 GREEN

CABLE





NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 1) ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
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- 4) ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES . RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5) ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

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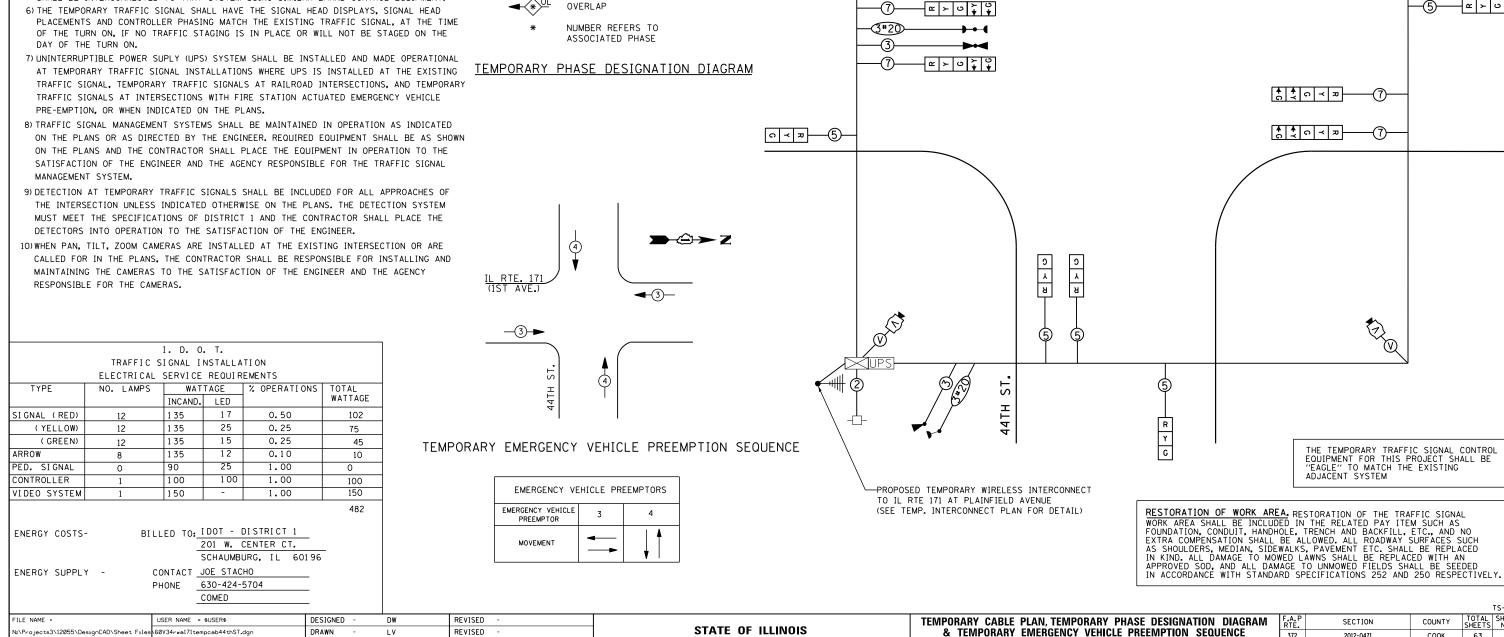
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TEMPORARY CONTROLLER SEQUENCE

LEGEND

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

IL RTE. 171

(1ST AVE.)

DEPARTMENT OF TRANSPORTATION

-2→

63

CONTRACT NO. 60V34

COUNTY

COOK

ILLINOIS FED. AID PROJECT

THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

SECTION

2012-0471

372

IL ROUTE 171 (1ST AVENUE) AT 44TH STREET

SHEET NO. OF SHEETS STA.

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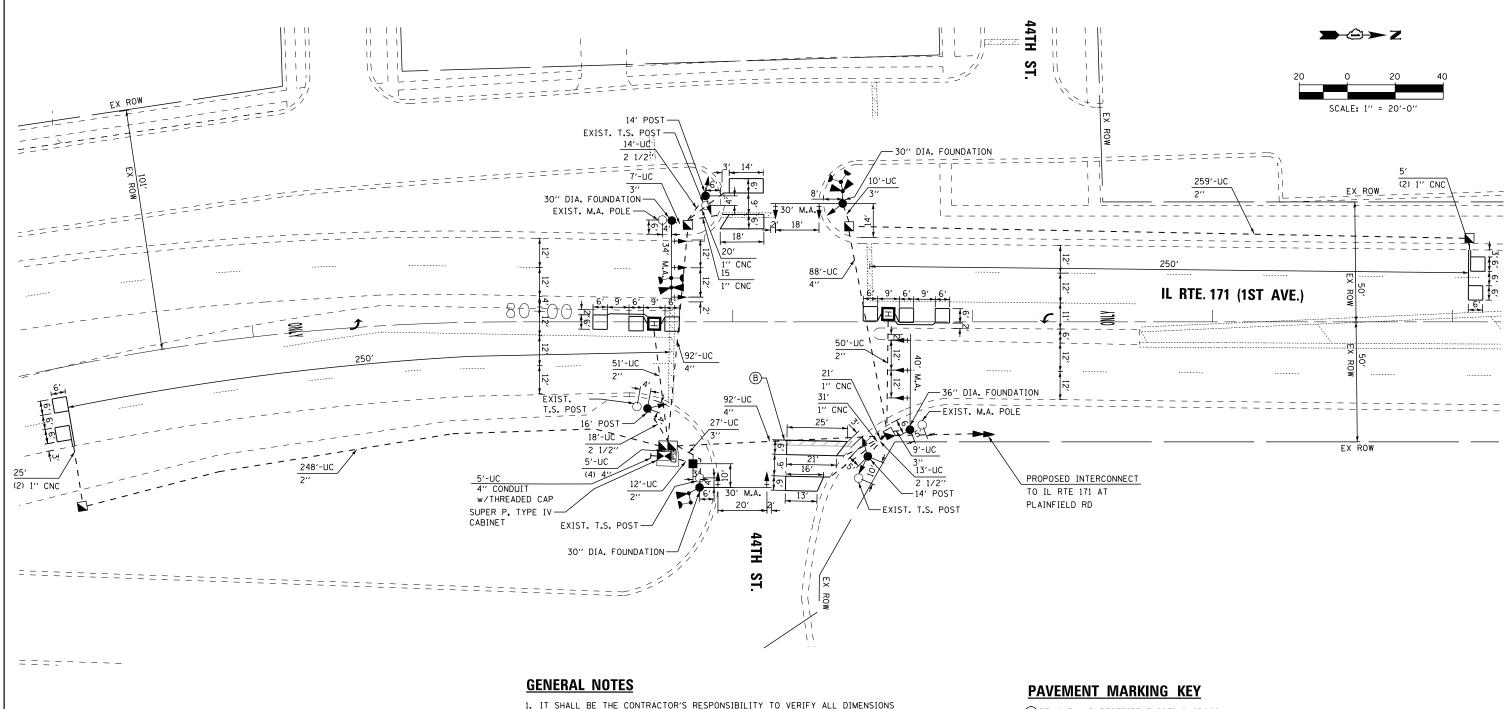
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THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

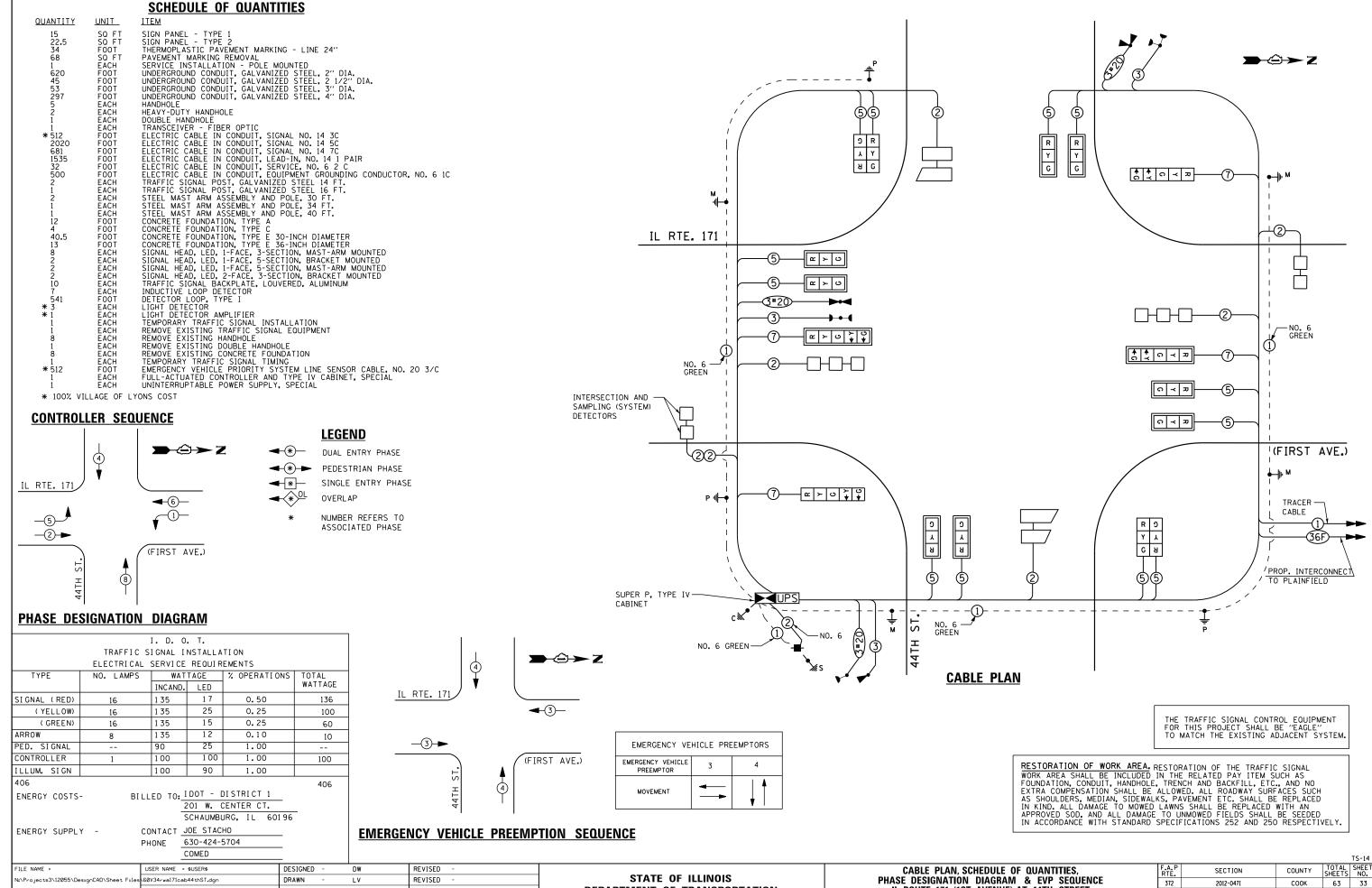
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED 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.

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- 2. THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- 3. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- 4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

- (A) REMOVE AND RESTRIPE EXISTING CROSSWALK, THERMOPLASTIC PAVEMENT MARKING LINE 6" (WHITE)
- (B) REMOVE AND RESTRIPE EXISTING CROSSWALK.
 THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE)
- © REMOVE AND RESTRIPE EXISTING STOP BAR.
 THERMOPLASTIC PAVEMENT MARKING LINE 24" (WHITE)

TOTAL SHEET SHEETS NO. DESIGNED REVISED FILE NAME = USER NAME = \$USER\$ DW SECTION COUNTY TRAFFIC SIGNAL MODERNIZATION PLAN STATE OF ILLINOIS N:\Projects3\12055\DesignCAD\Sheet Fi 60V34rwa171pro44thST.da DRAWN REVISED 372 2012-0471 COOK 63 32 IL ROUTE 171 (1ST AVENUE) AT 44TH STREET CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60V34 SHEET NO. OF SHEETS STA. DATE REVISED PLOT DATE = 10/11/2013 9/25/2012





DEPARTMENT OF TRANSPORTATION

IL ROUTE 171 (1ST AVENUE) AT 44TH STREET

SHEET NO. OF SHEETS STA.

SCALE: N.T.S.

CONTRACT NO. 60V34

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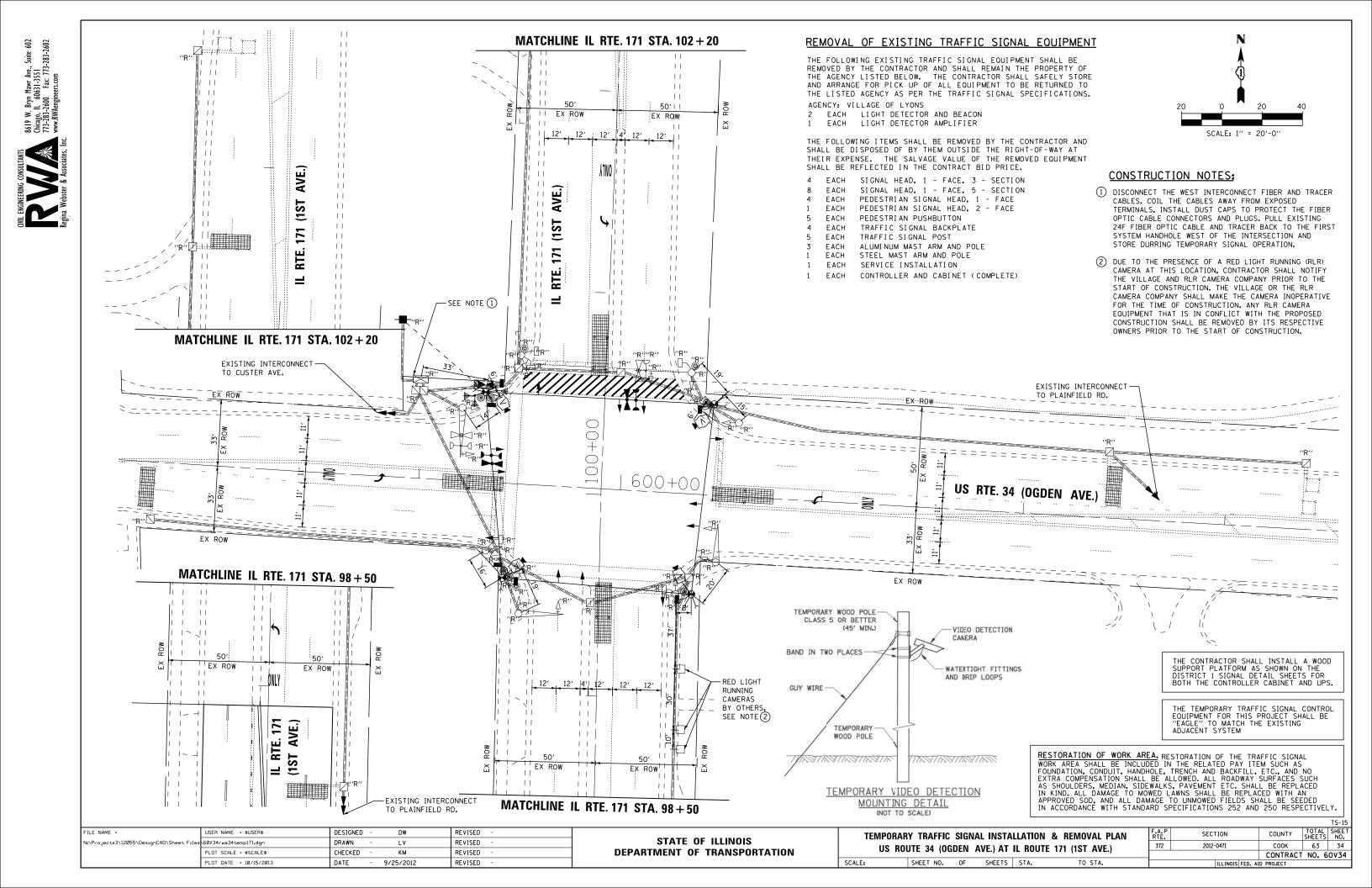
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DATE

PLOT DATE = 10/11/2013

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NOTES FOR TEMPORARY TRAFFIC SIGNALS

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SCHAUMBURG, IL 60196

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9/25/2012

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I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	1 7	0.50	102					
(YELLOW)	12	1 35	25	0.25	75					
(GREEN)	12	1 35	15	0.25	45					
ARROW	16	1 35	12	0.10	20					
PED. SIGNAL	6	90	25	1.00	150					
CONTROLLER	1	100	100	1.00	100					
VIDEO SYSTEM	1	150	ı	1.00	150					
					642					
ENERGY COSTS	DISTRICT 1									

CONTACT JOE STACHO

USER NAME = \$USER\$

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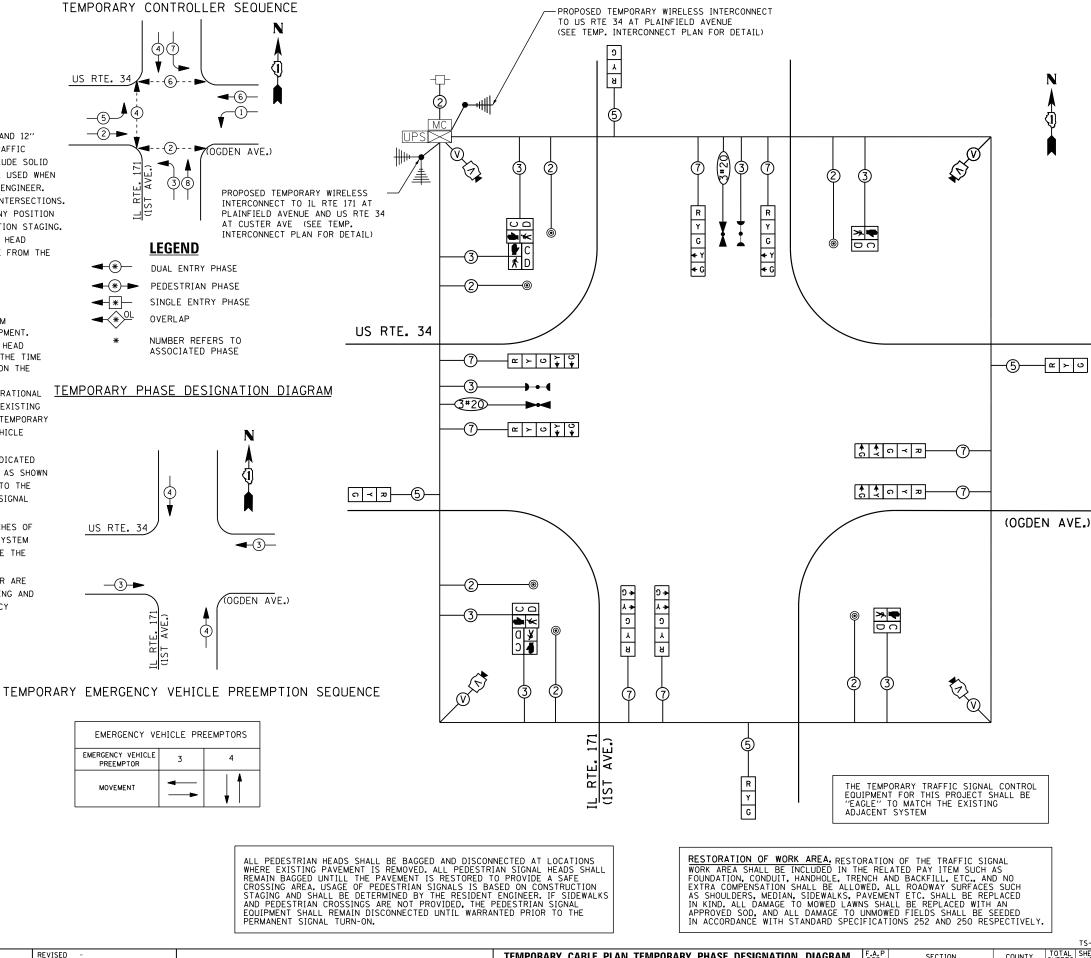
PHONE

630-424-5704

ENERGY SUPPLY

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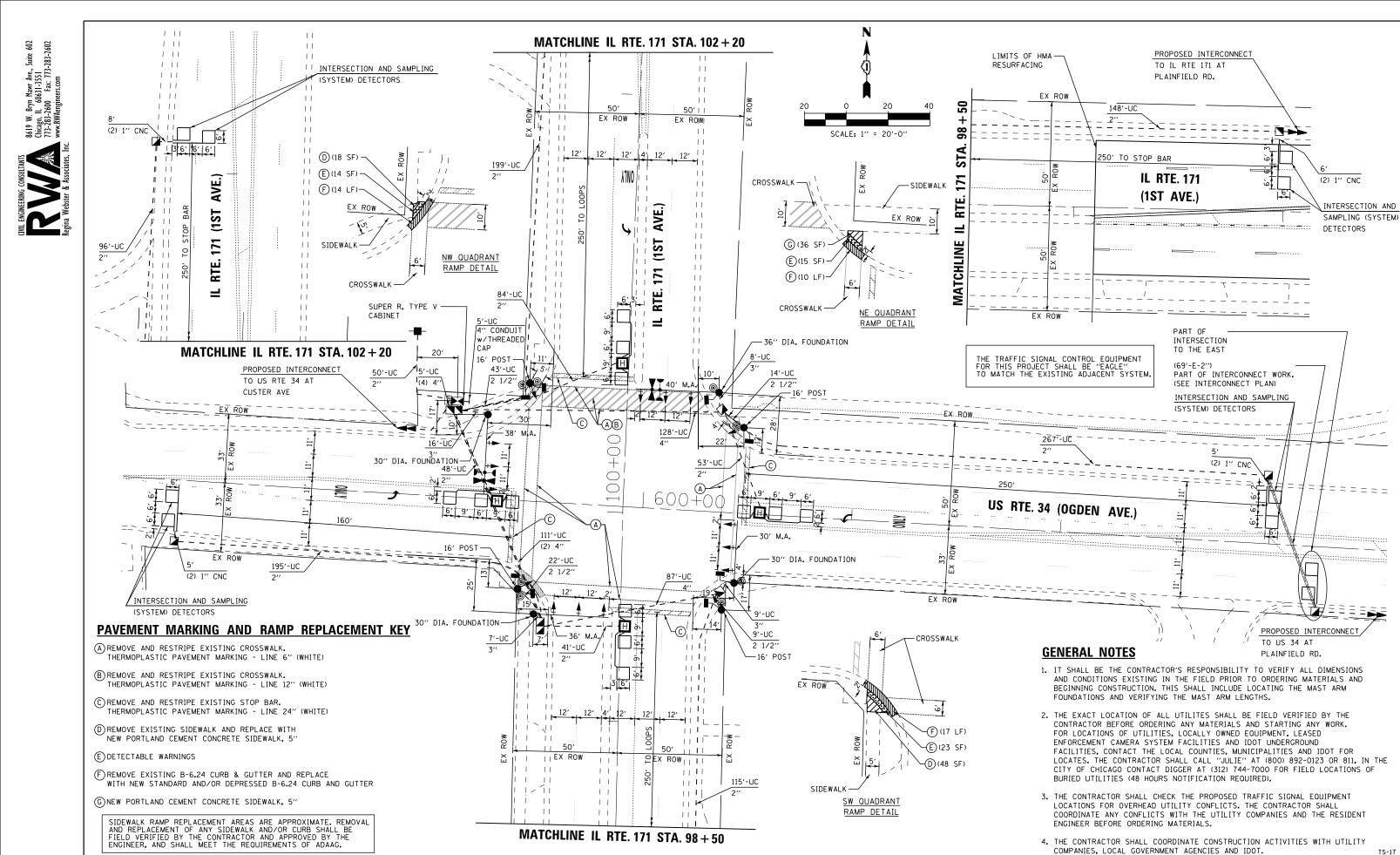


DEPARTMENT OF TRANSPORTATION

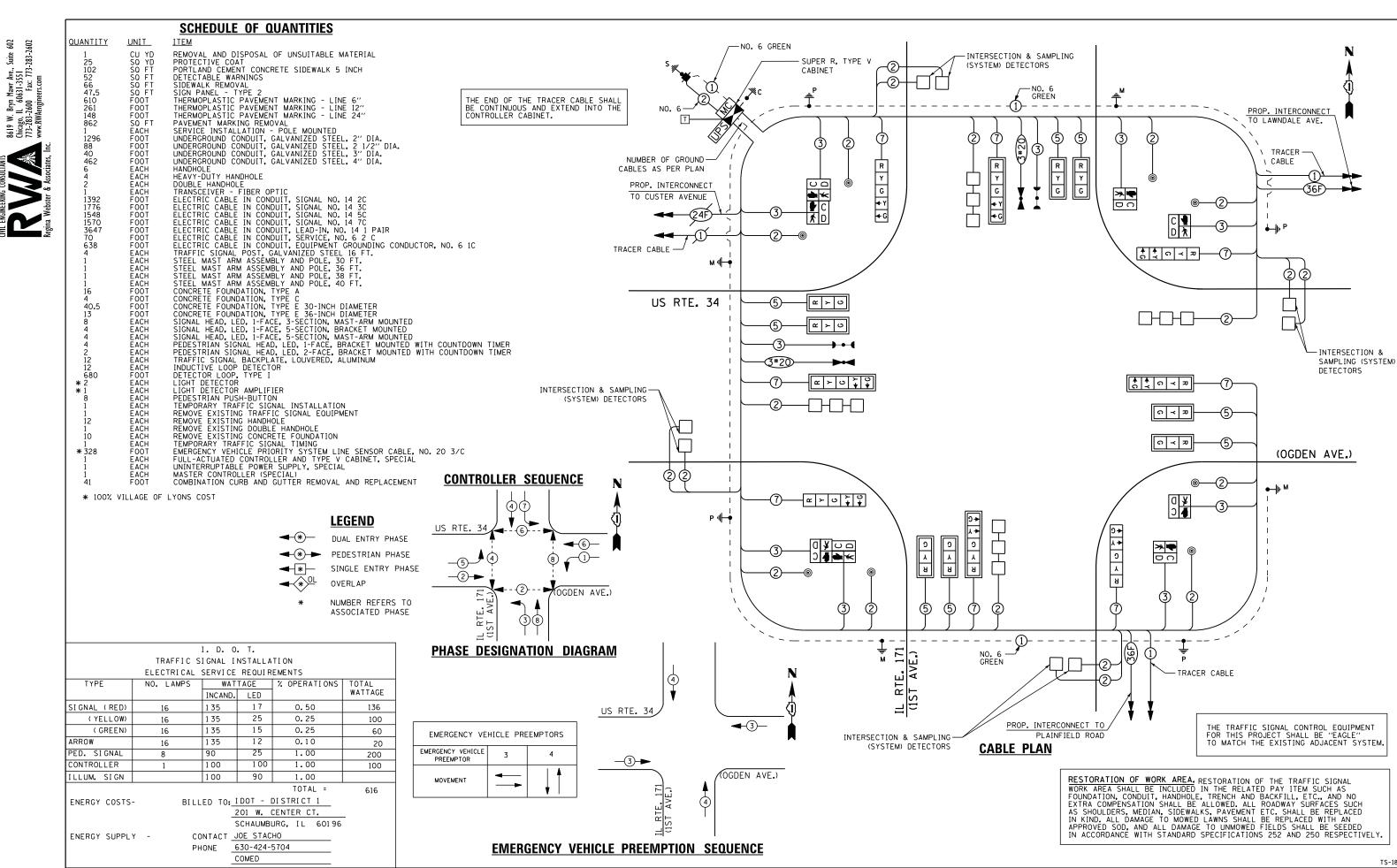
STATE OF ILLINOIS

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM & TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE US ROUTE 34 (OGDEN AVENUE) AT IL ROUTE 171 (1ST AVENUE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

SECTION COUNTY 2012-0471 COOK 63 35 CONTRACT NO. 60V34



DESIGNED REVISED DW COUNTY TRAFFIC SIGNAL MODERNIZATION PLAN STATE OF ILLINOIS DRAWN L۷ REVISED 2012-0471 COOK 63 US ROUTE 34 (OGDEN AVE.) AT IL ROUTE 171 (1ST AVE.) CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60V34 SHEET NO. OF SHEETS STA. DATE 9/25/2012 REVISED



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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COUNTY

COOK

CONTRACT NO. 60V34

SECTION

2012-0471

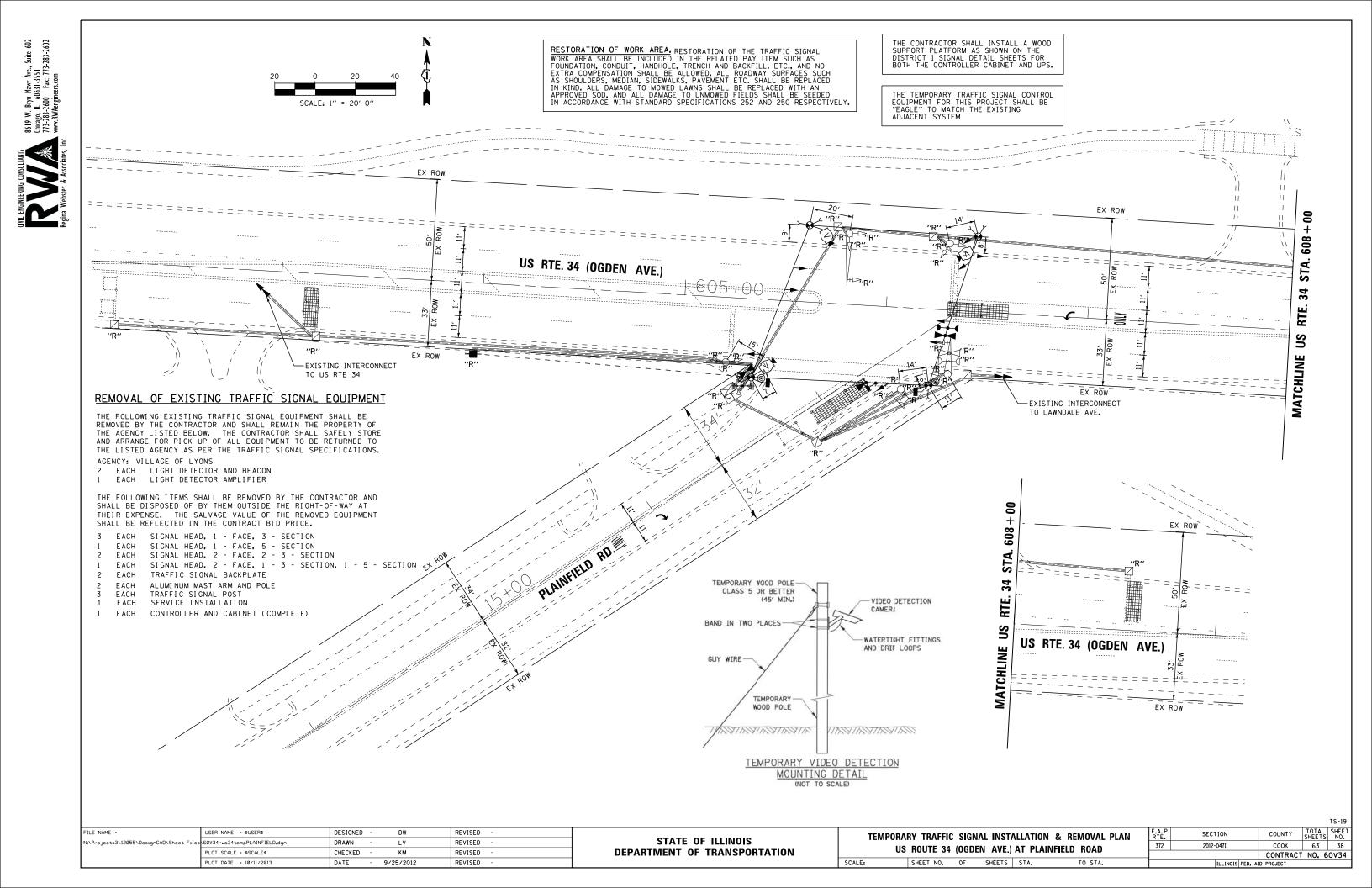
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CABLE PLAN, SCHEDULE OF QUANTITIES,

PHASE DESIGNATION DIAGRAM & EVP SEQUENCE

US ROUTE 34 (OGDEN AVE.) AT IL ROUTE 171 (1ST AVE.

SHEET NO. OF SHEETS STA.



NOTES FOR TEMPORARY TRAFFIC SIGNALS

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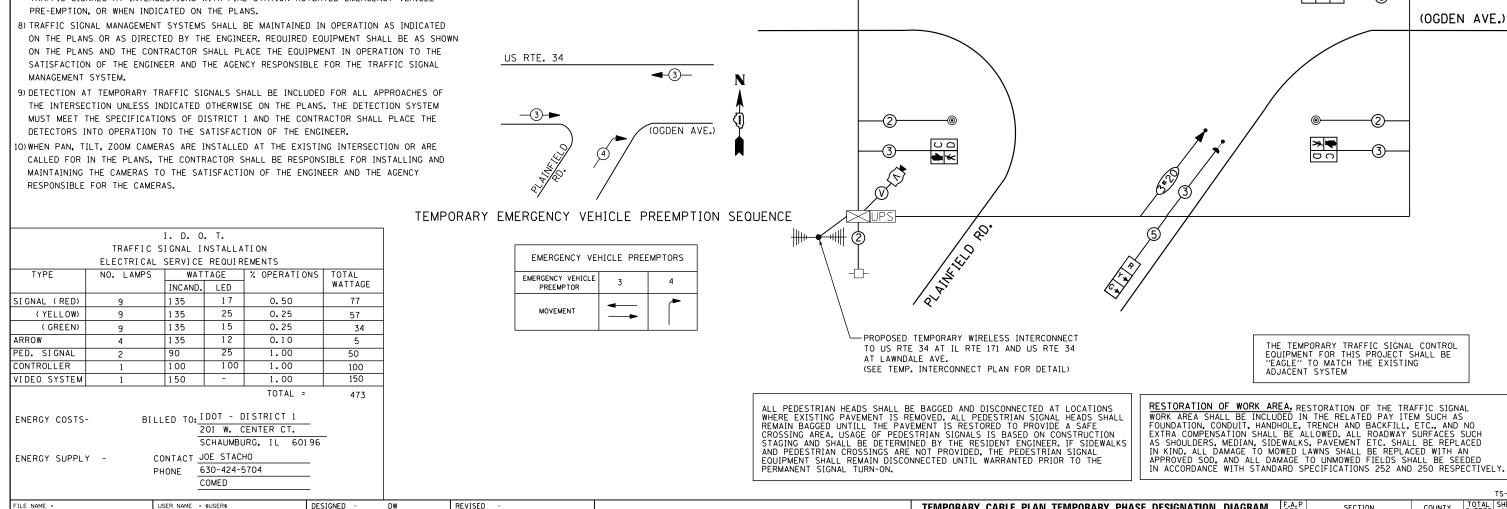
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DATE

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TEMPORARY CONTROLLER SEQUENCE

(3)

LEGEND

DUAL ENTRY PHASE

PEDESTRIAN PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

SINGLE ENTRY PHASE

(OGDEN AVE.)

US RTE. 34

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM

& TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

US ROUTE 34 (OGDEN AVE.) AT PLAINFIELD ROAD

SHEET NO. OF SHEETS STA.

- R > D

(OGDEN AVE.)

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THE TEMPORARY TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING

SECTION

2012-0471

372

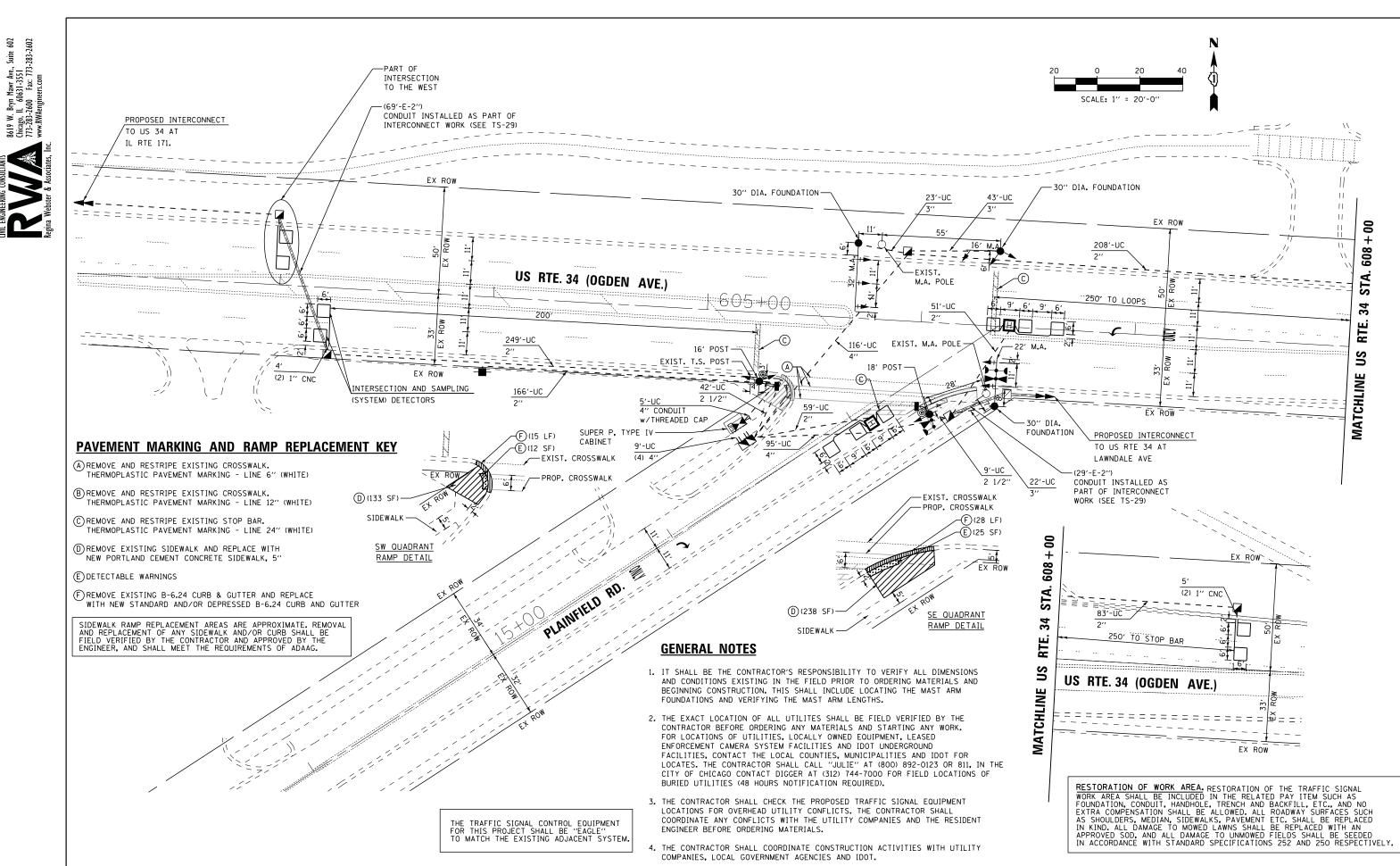
COUNTY

COOK

63 39

CONTRACT NO. 60V34

US RTE. 34



TS-21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
US ROUTE 34 (OGDEN AVENUE) AT PLAINFIELD ROAD

SHEET NO. OF SHEETS STA. TO STA.

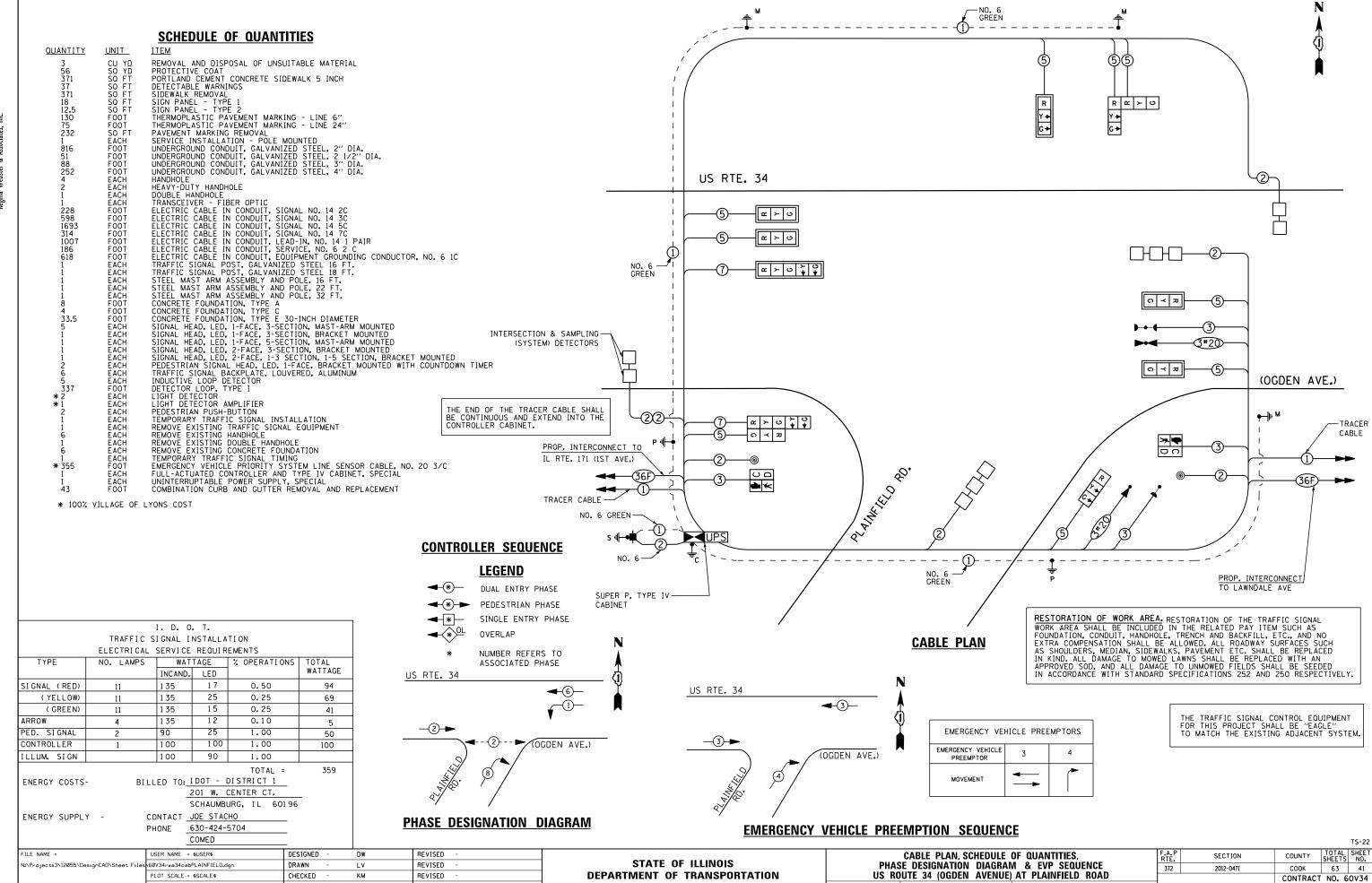


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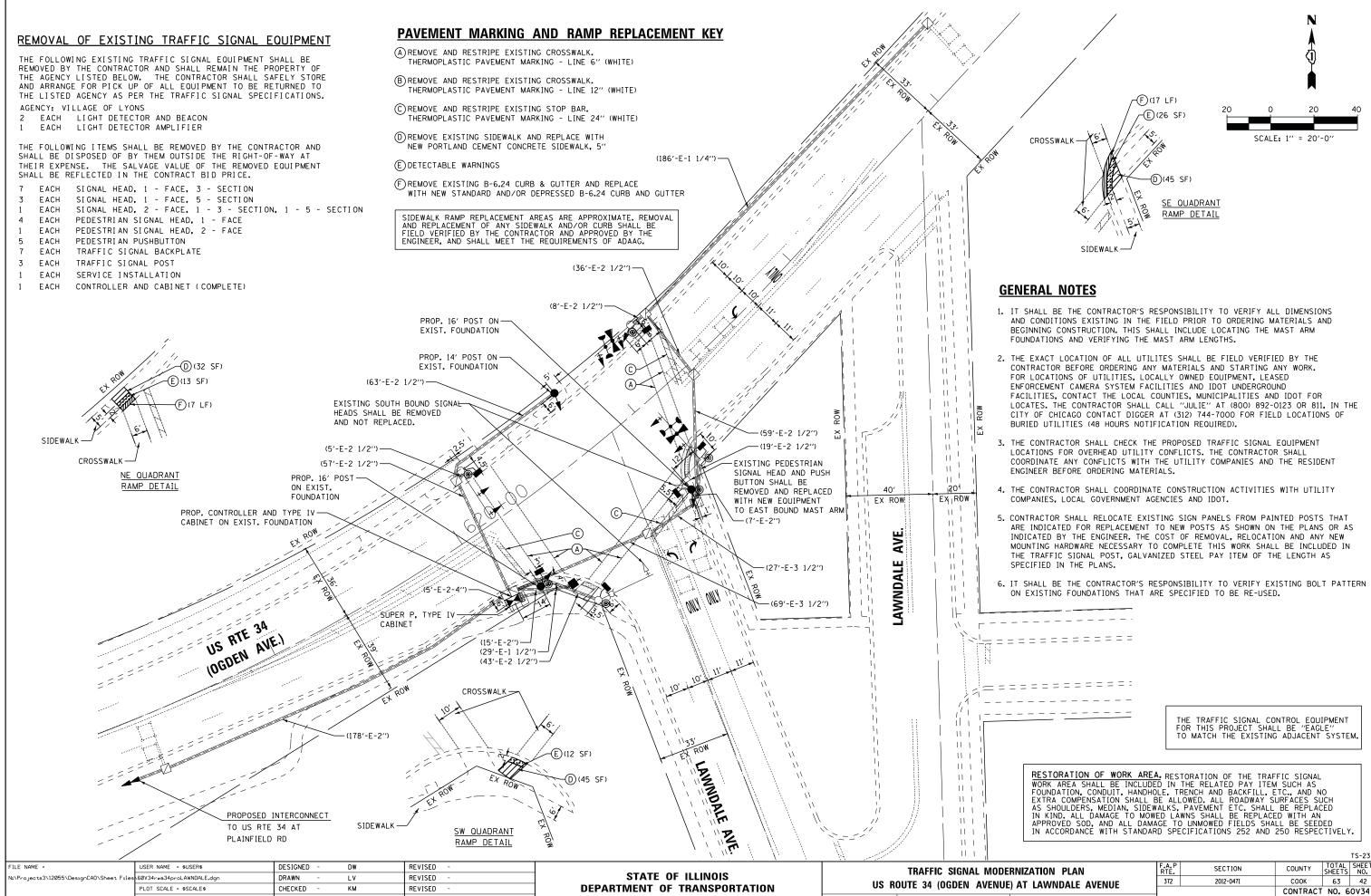
SHEET NO. OF SHEETS STA.

PLOT DATE = 10/11/2013

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SHEET NO. OF SHEETS STA.

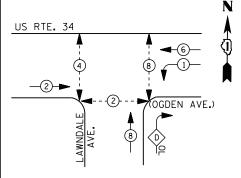




<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
22	SQ YD	PROTECTIVE COAT
122	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
51	SQ FT	DETECTABLE WARNINGS SIDEWALK REMOVAL
122 18	SQ FT SQ FT	SIGN PANEL - TYPE 1
12.5	SQ FT	SIGN PANEL - TYPE 2
357	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 6"
77	FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 24"
333	SQ FT	PAVEMENT MARKING REMOVAL
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
162	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
169	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1 2 4 2 2 2 6 6 6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6	EACH	INDUCTIVE LOOP DETECTOR
* 2	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
į.	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
24	EACH FOOT	UNINTERRUPTABLE POWER SUPPLY, SPECIAL COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT
24	F 00 I	COMBINATION CORD AND GOTTER REMOVAL AND REPLACEMENT

* 100% VILLAGE OF LYONS COST

CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED PHASE PHASE

<u>LEGEND</u>									
DUAL ENTRY PHASE									
PEDESTRIAN PHASE									
SINGLE ENTRY PHASE									
OVERLAP									

PHASE DESIGNATION DIAGRAM

TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	10	1 35	1 7	0.50	85				
(YELLOW)	10	1 35	25	0.25	63				
(GREEN)	10	1 35	15	0.25	38				
ARROW	8	1 35	12	0.10	10				
PED. SIGNAL	6	90	25	1.00	150				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		100	90	1.00					
				TOTAL =	446				

I. D. O. T.

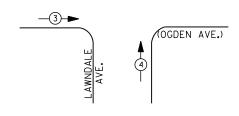
ENERGY COSTS-

BILLED TO: IDOT - DISTRICT 1

201 W. CENTER CT. SCHAUMBURG, IL 60196

ENERGY SUPPLY -CONTACT JOE STACHO

630-424-5704



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

-NO. 6 GREEN

(OGDEN AVE.)

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT		†					

EMERGENCY VE	EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	—	†						

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAYEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED 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.

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AWNDALE

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

US RTE. 34

PROP. INTERCONNECT

TO FIRST AVENUE

TRACER CABLE

NO. 6 GREEN

د <u>۲</u> ۵

NO. 6 GREEN

∪ <u>0</u>

CABLE PLAN, SCHEDULE OF QUANTITIES,								
PHASE DESIGNATION DIAGRAM & EVP SEQUENCE US ROUTE 34 (OGDEN AVENUE) AT LAWNDALE AVENUE								
SCALE: N.T.S.	· ·	OF			TO STA.			

CABLE PLAN

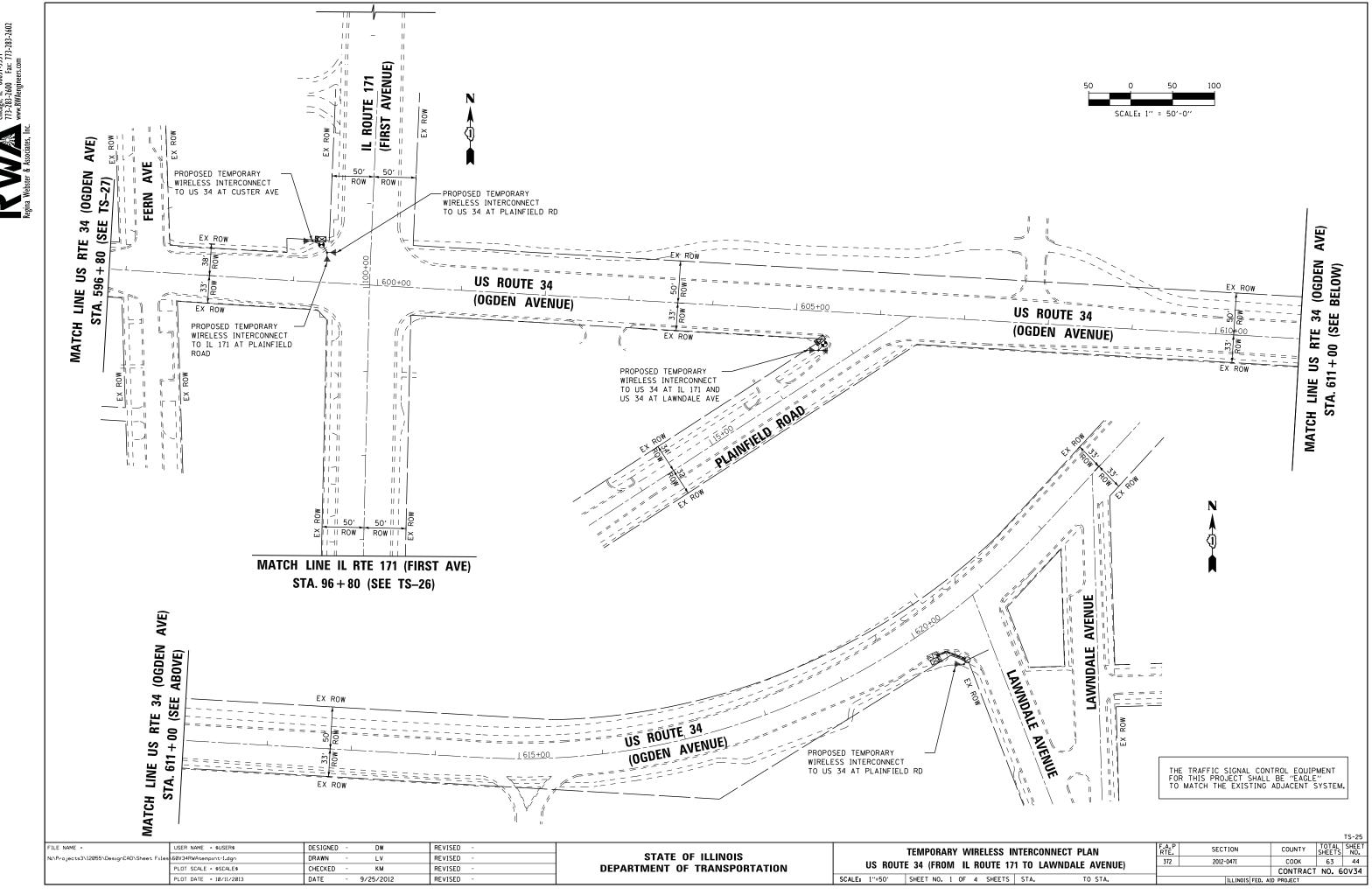
F.A.P RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
372	2012-047[СООК	63	43
				CONTRACT	NO. 6	0V34
	ILLINOIS	FED.	AID	PROJECT		

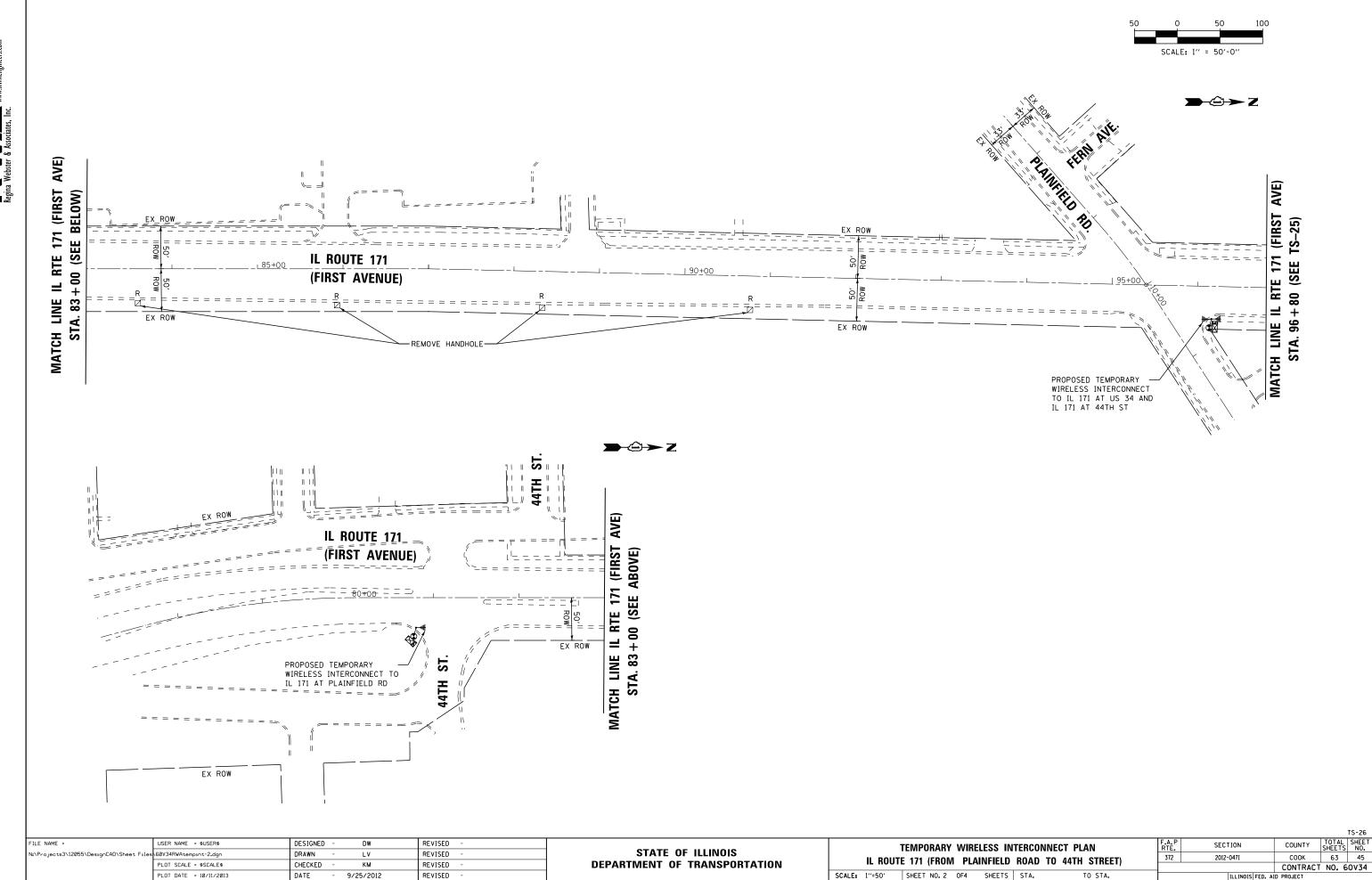
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NUMBER REFERS TO ASSOCIATED PHASE

US RTE. 34

SUPER P, TYPE IV CABINET





FILE NAME =

USER NAME = \$USER\$

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PLOT SCALE = \$SCALE\$

PLOT DATE = 10/11/2013

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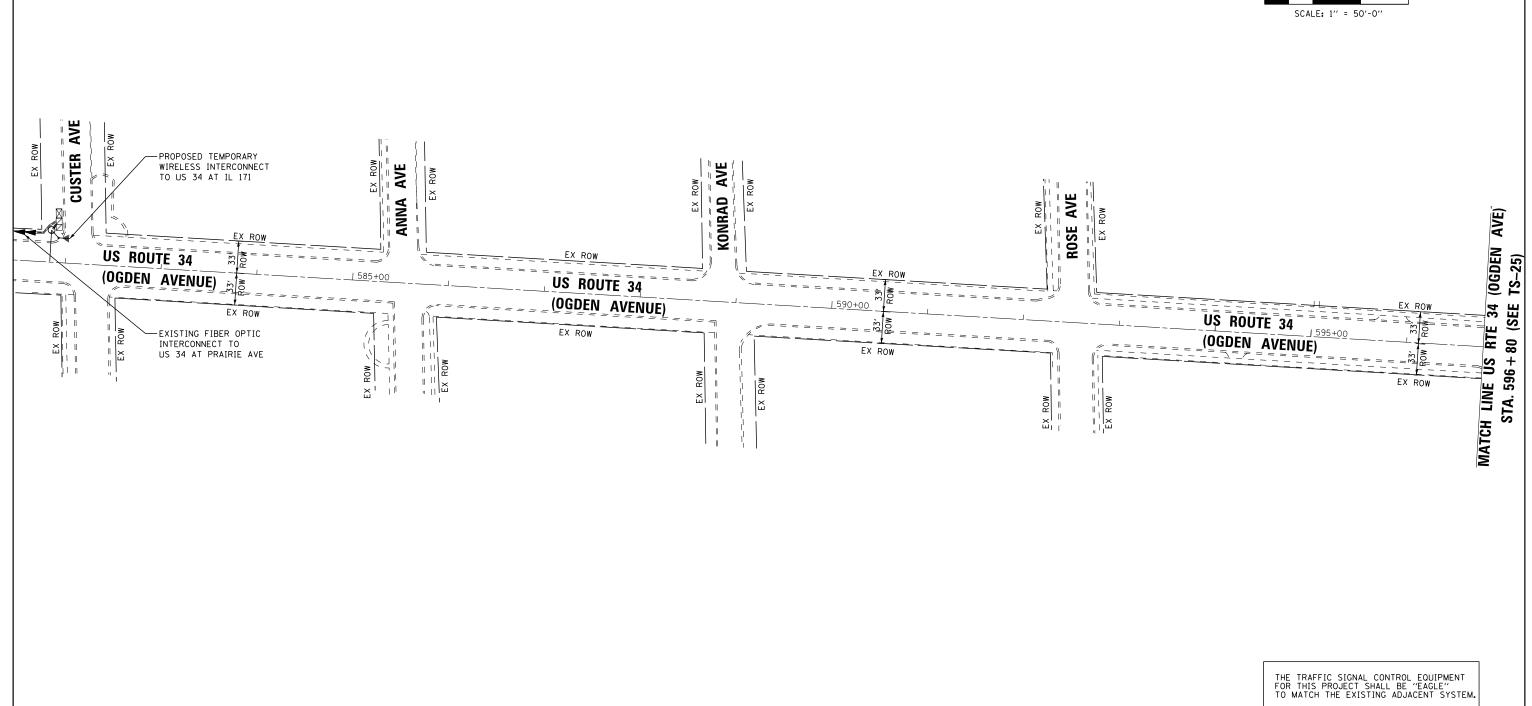
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TS-27

COUNTY | TOTAL | SHEET | NO. |

COOK | 63 | 46 |

CONTRACT | NO. | 60V34

F.A.P RTE. 372

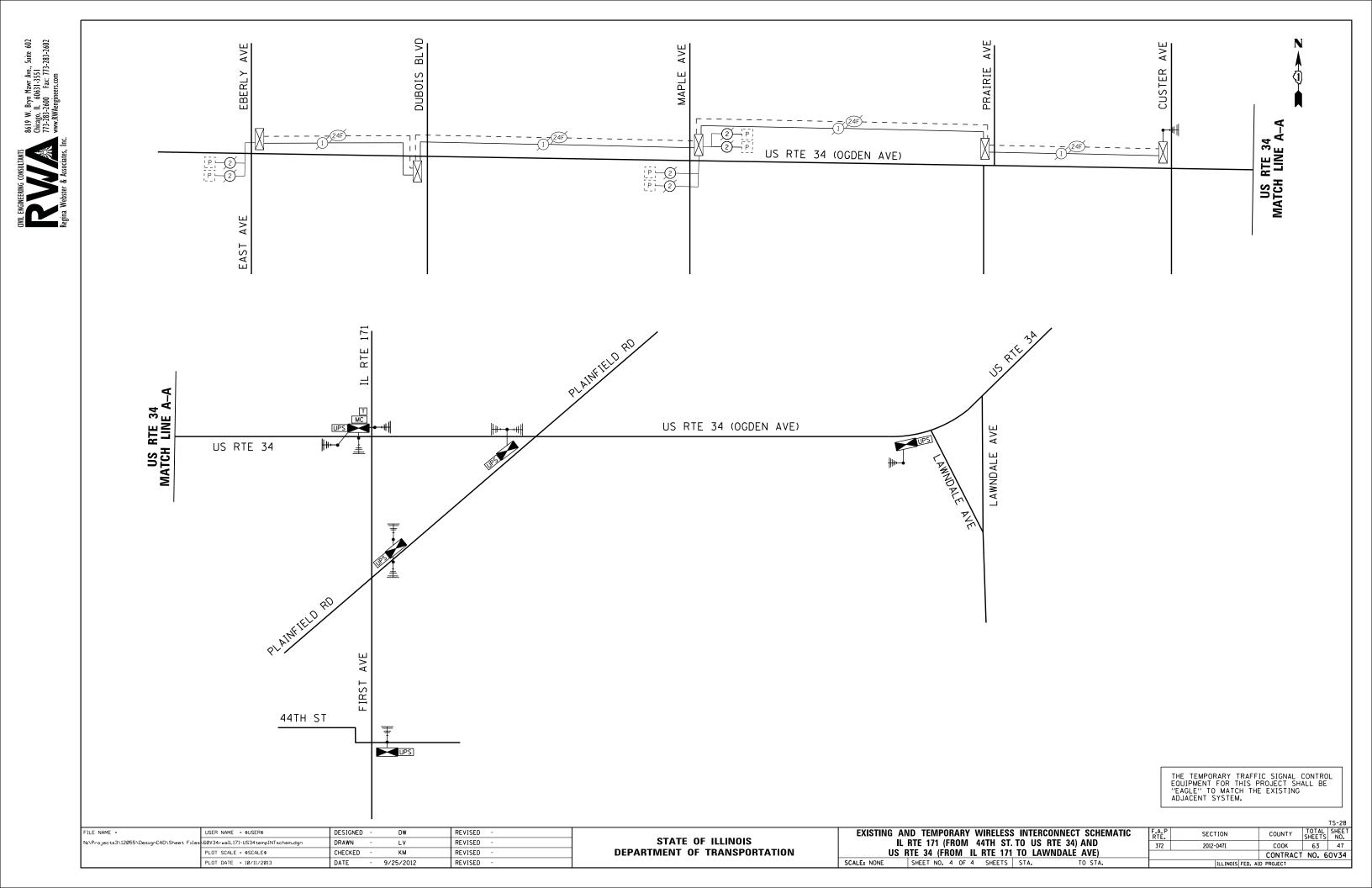
TEMPORARY WIRELESS INTERCONNECT PLAN

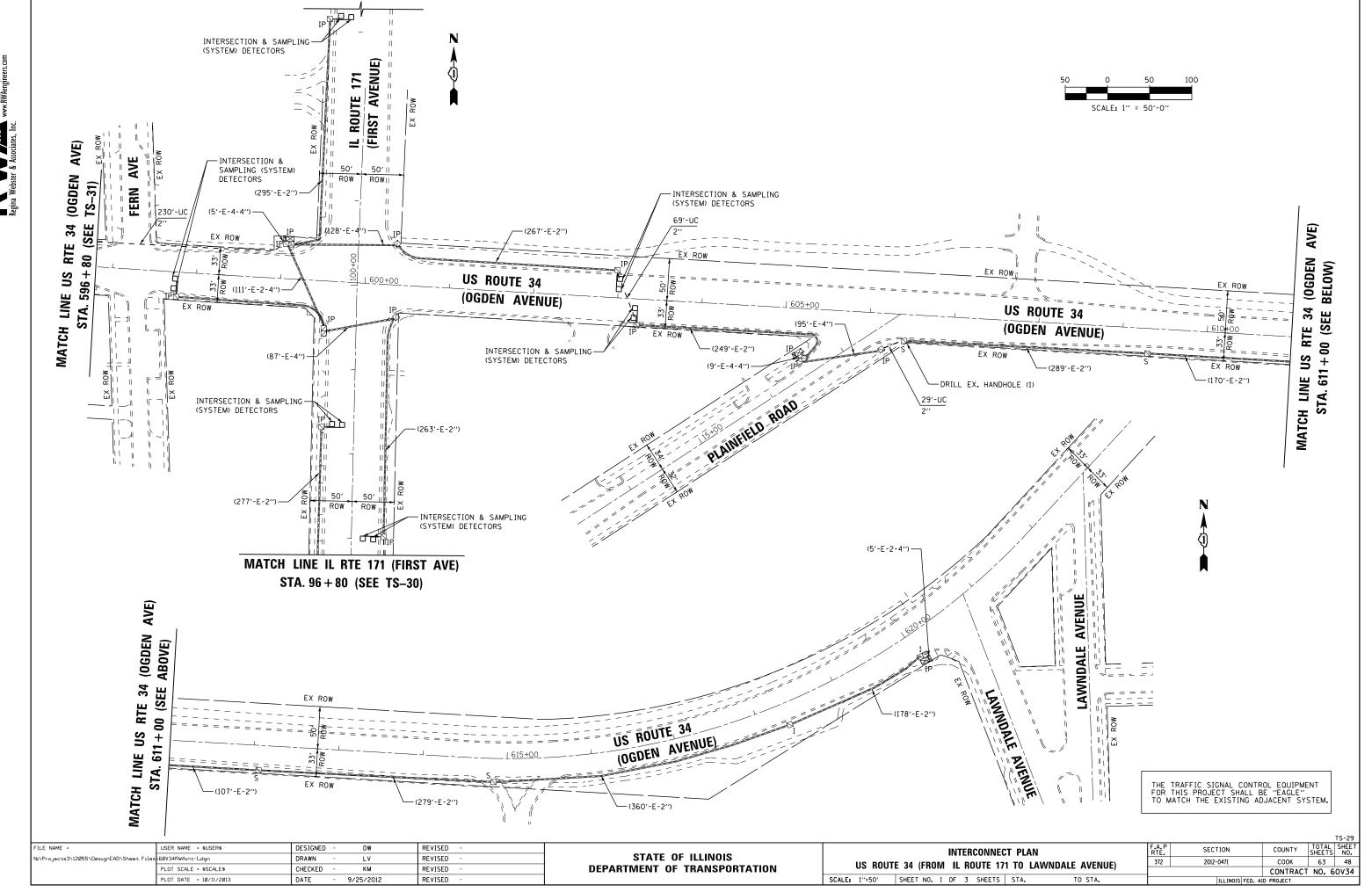
US ROUTE 34 (FROM CUSTER TO IL ROUTE 171)

SCALE: 1"=50" SHEET NO. 3 OF 4 SHEETS STA.

SECTION

2012-047[







FILE NAME =

USER NAME = \$USER\$

PLOT DATE = 10/11/2013

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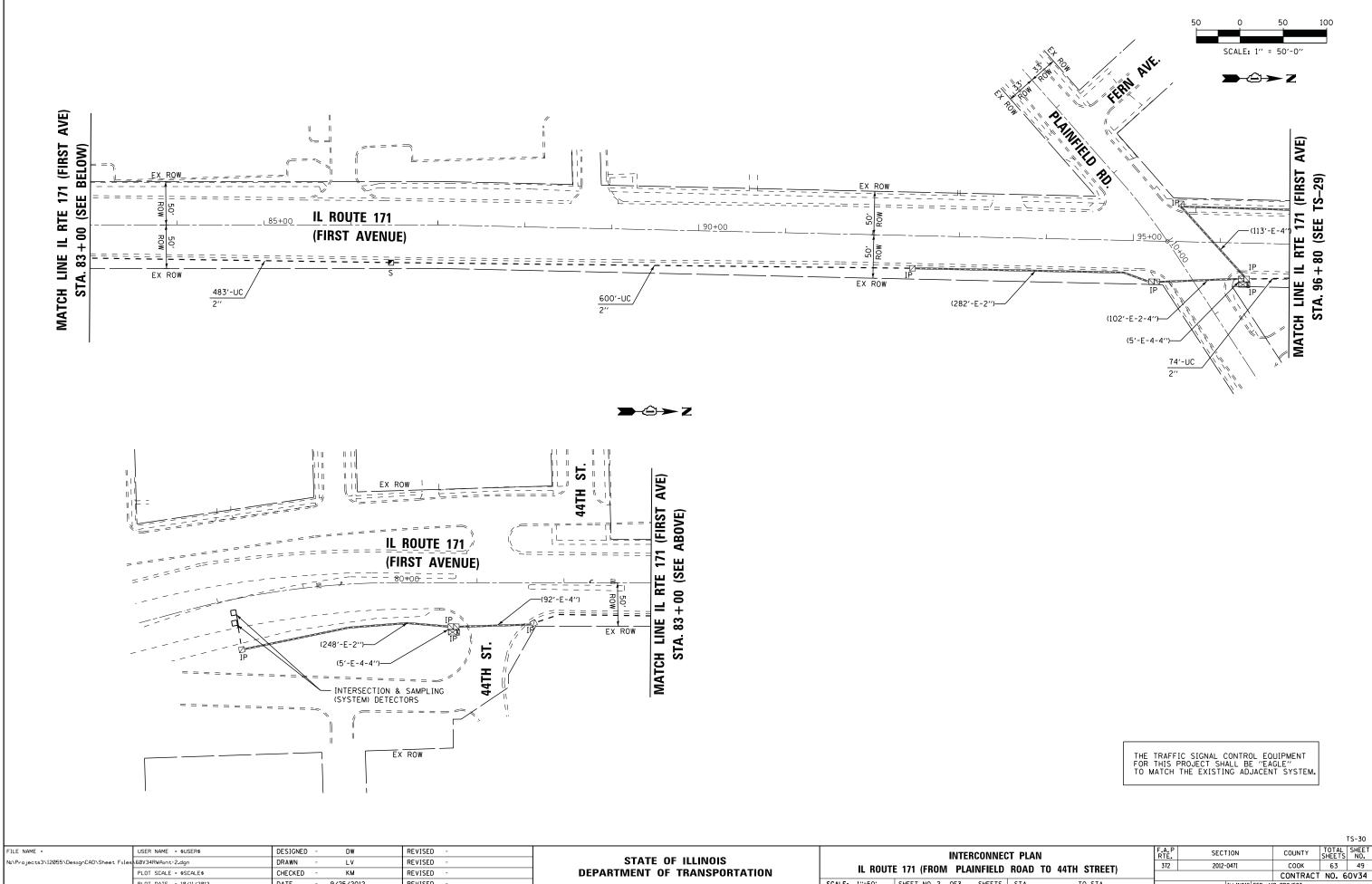
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION

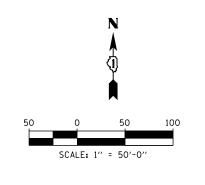
2012-047[

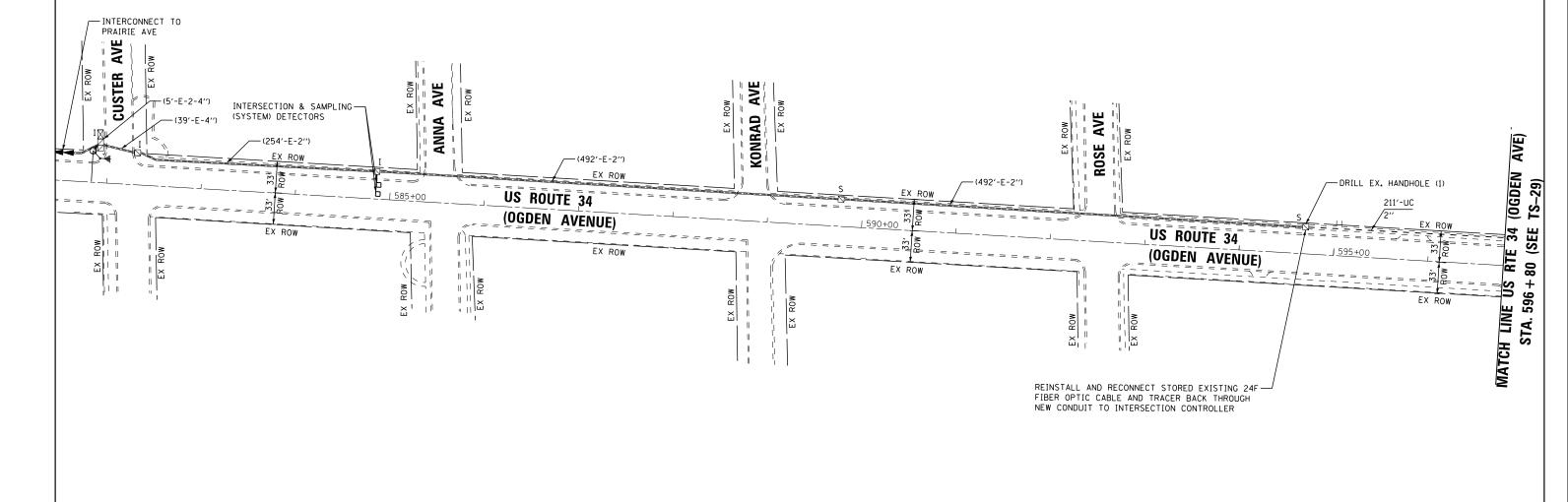
INTERCONNECT PLAN

IL ROUTE 171 (FROM PLAINFIELD ROAD TO 44TH STREET)

SCALE: 1"=50" SHEET NO. 2 OF3 SHEETS STA.

FILE NAME =





THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TOTAL SHEETS	SHEET NO.			
63	50			
NO. 60V34				

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	PLOT DATE = 10/11/2013	DATE -	9/25/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	INTERCONNECT PLAN											
	US	ROUTE	34	(FR	ОМ	C	USTER	AVE	T0	IL	ROUTE	171)
SCALE:	1"=50"	SHEE.	Γ NO.	. 1	OF	3	SHEETS	STA			TO	STA.

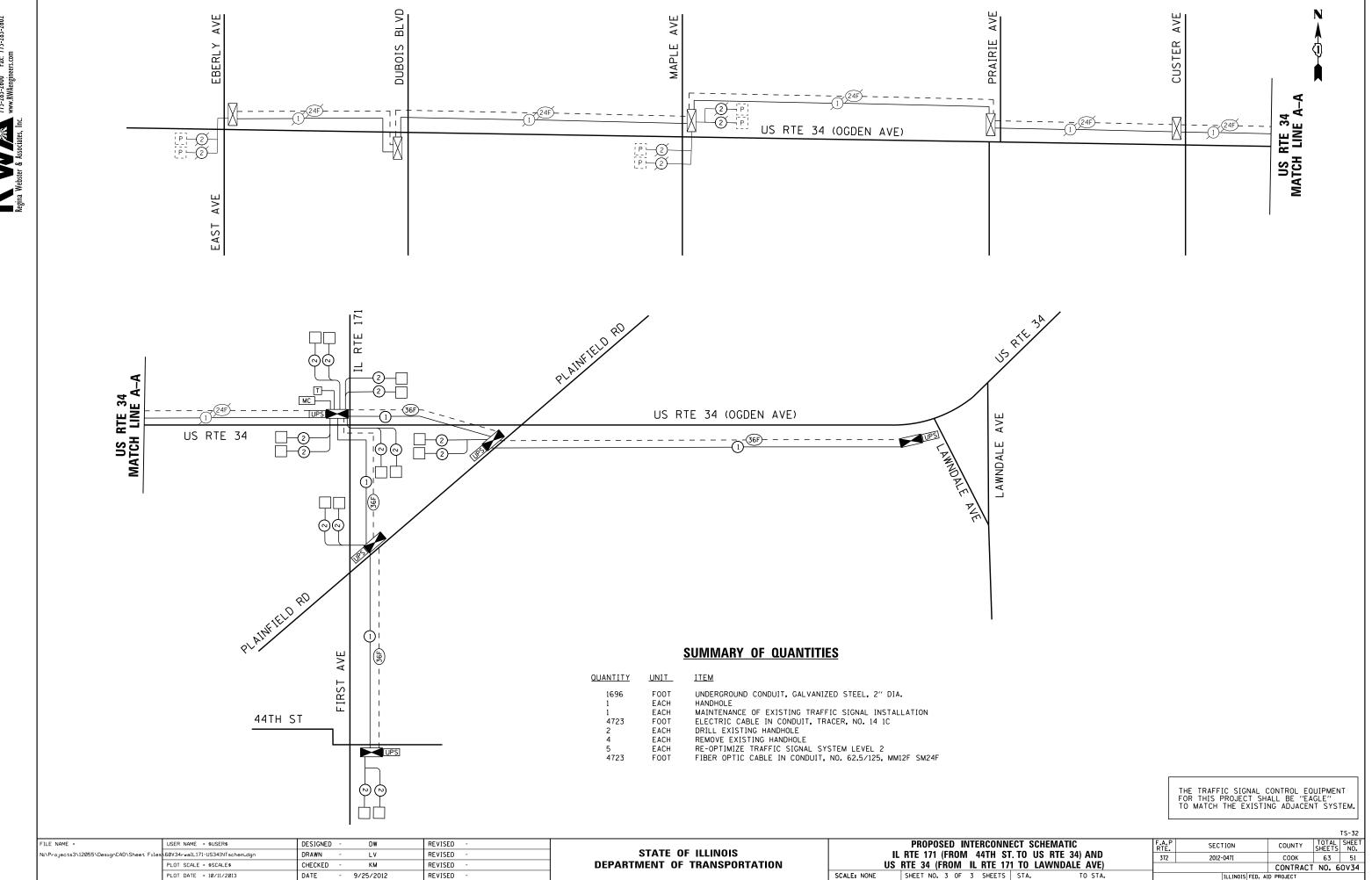
RTE.	SECT	COUNTY	SHEET				
372	2012-	СООК	63				
					CONTRACT	NO.	6
		ILLINOIS	FED.	ΑĬ	D PROJECT		
	RTÉ.	372 2012-	372 2012-047I	372 2012-047I	372 2012-0471	RTE. SECTION COUNTY 372 2012-0471 COOK	RTE. SECTION COUNTY SHEET STEET SHEET SHEET STEET SHEET SH

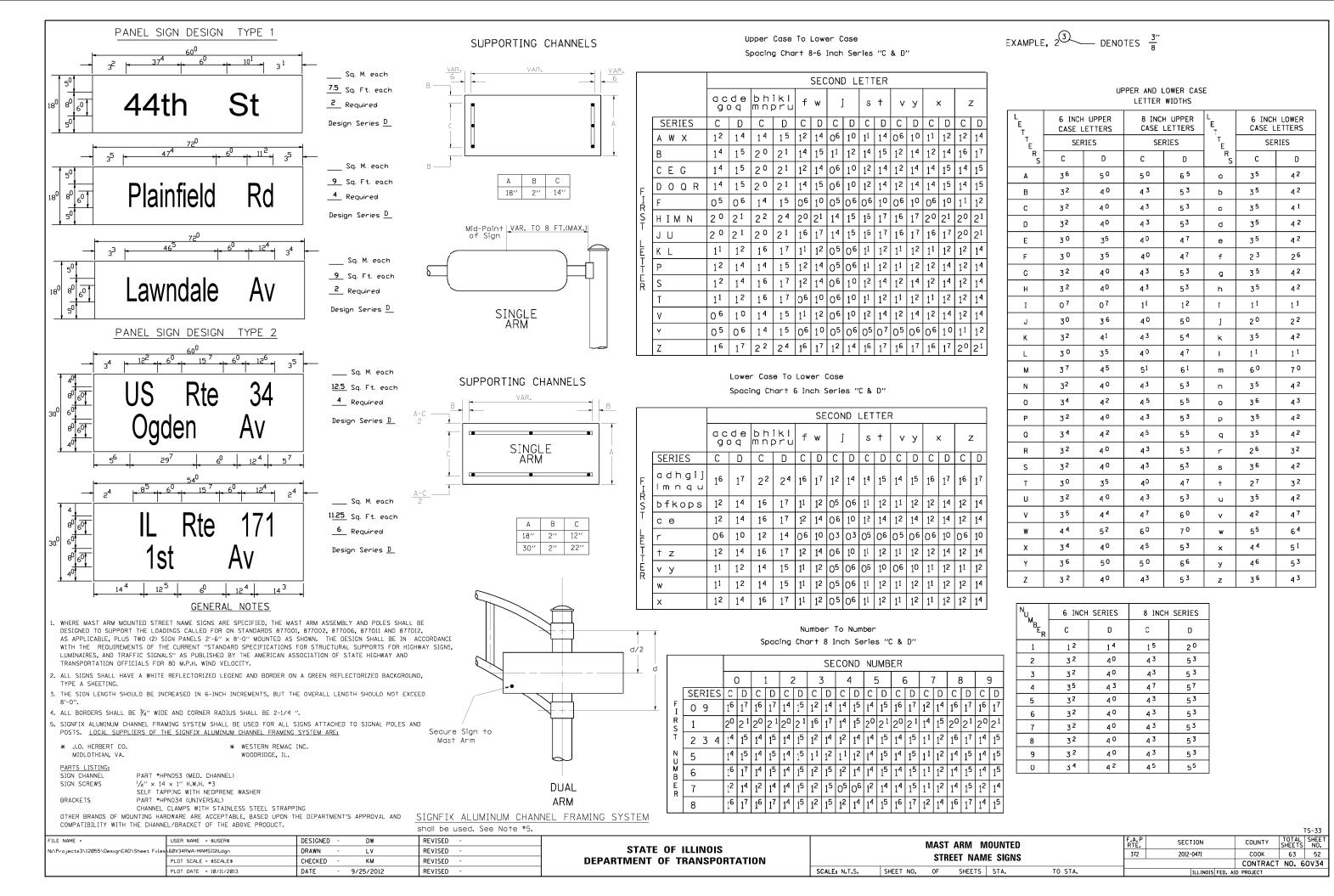


PLOT DATE = 10/11/2013

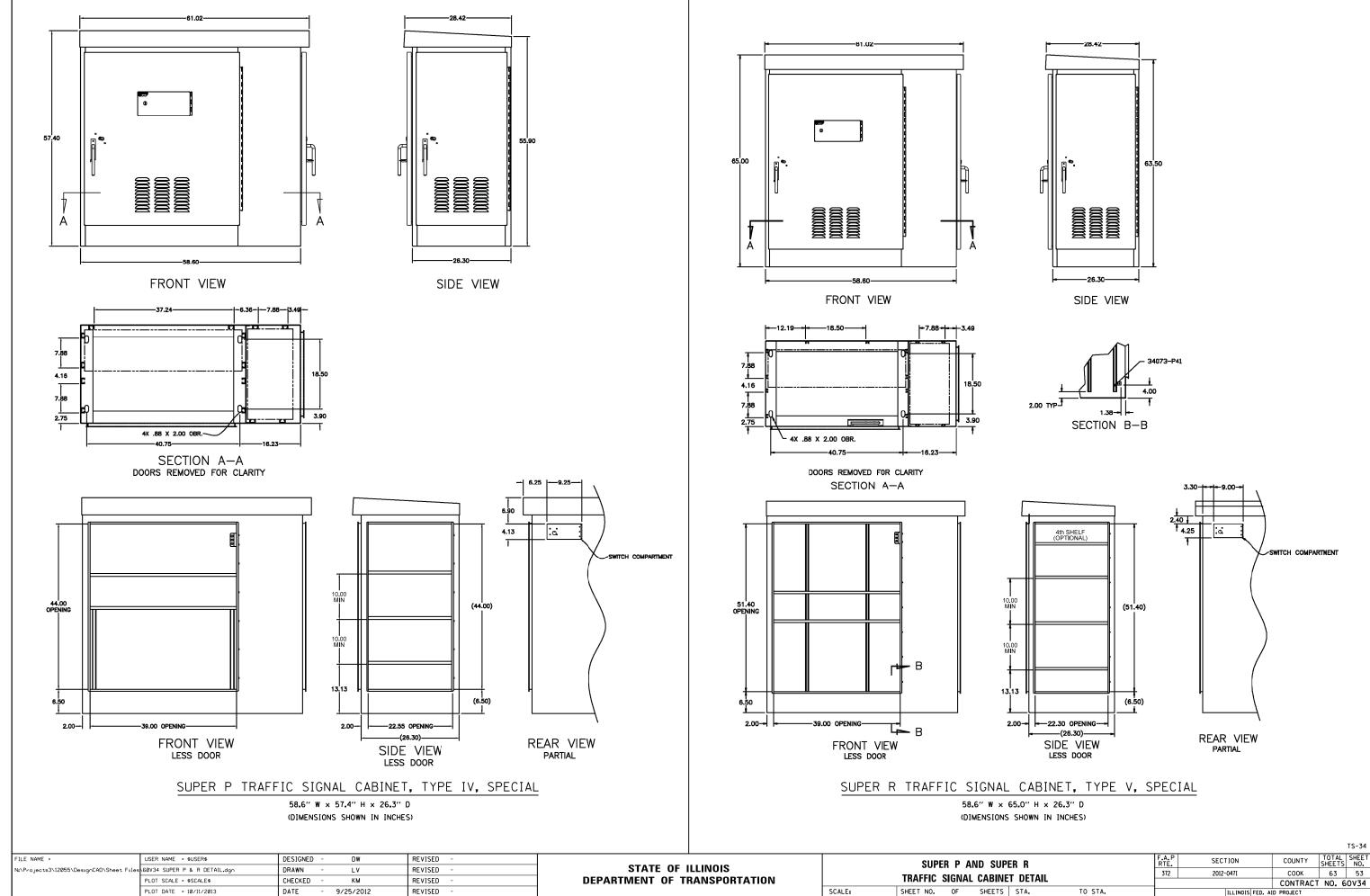
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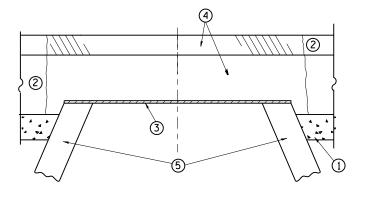
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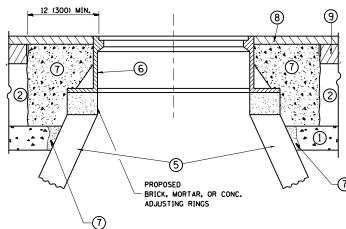












NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109,04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

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

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

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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

 D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

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

LEGEND

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

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAYEMENT. 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.

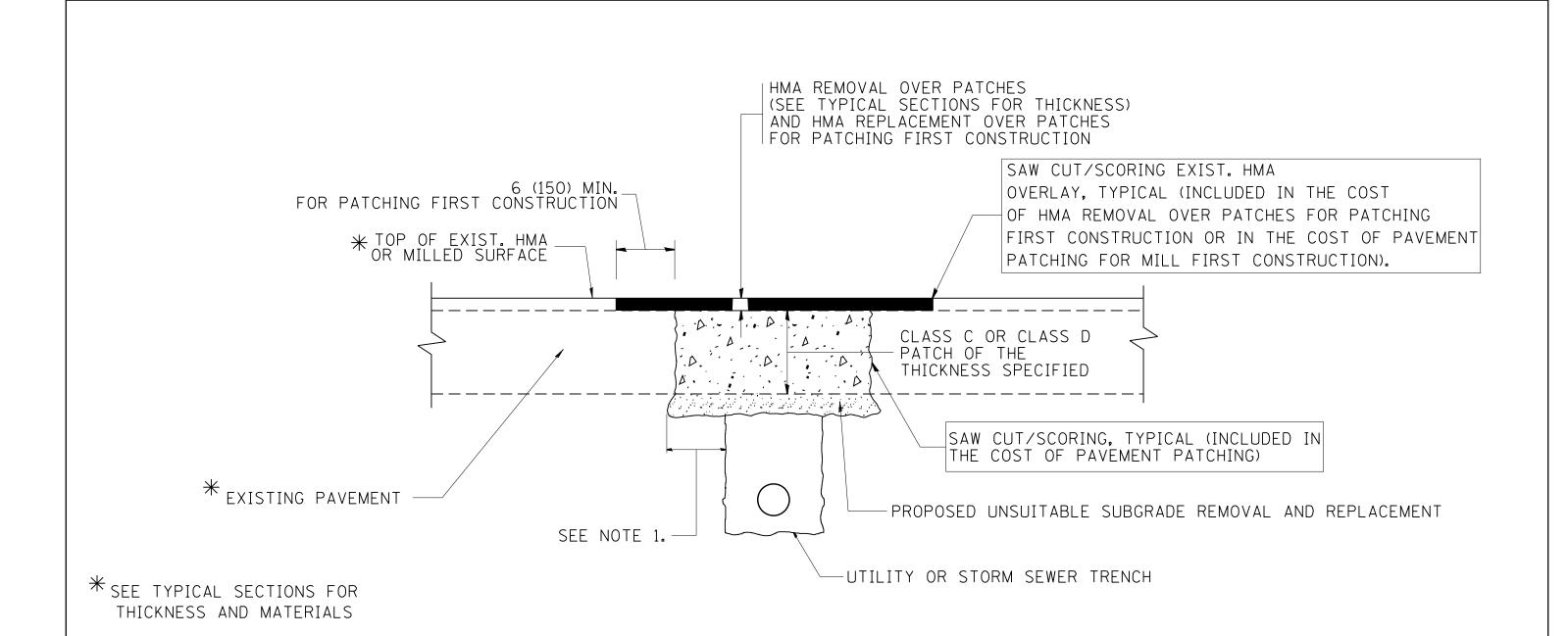
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 10/18/2013	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DETAILS	FOR
	FRAMES AND LIDS ADJUST	MENT WITH MILLING
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.



NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

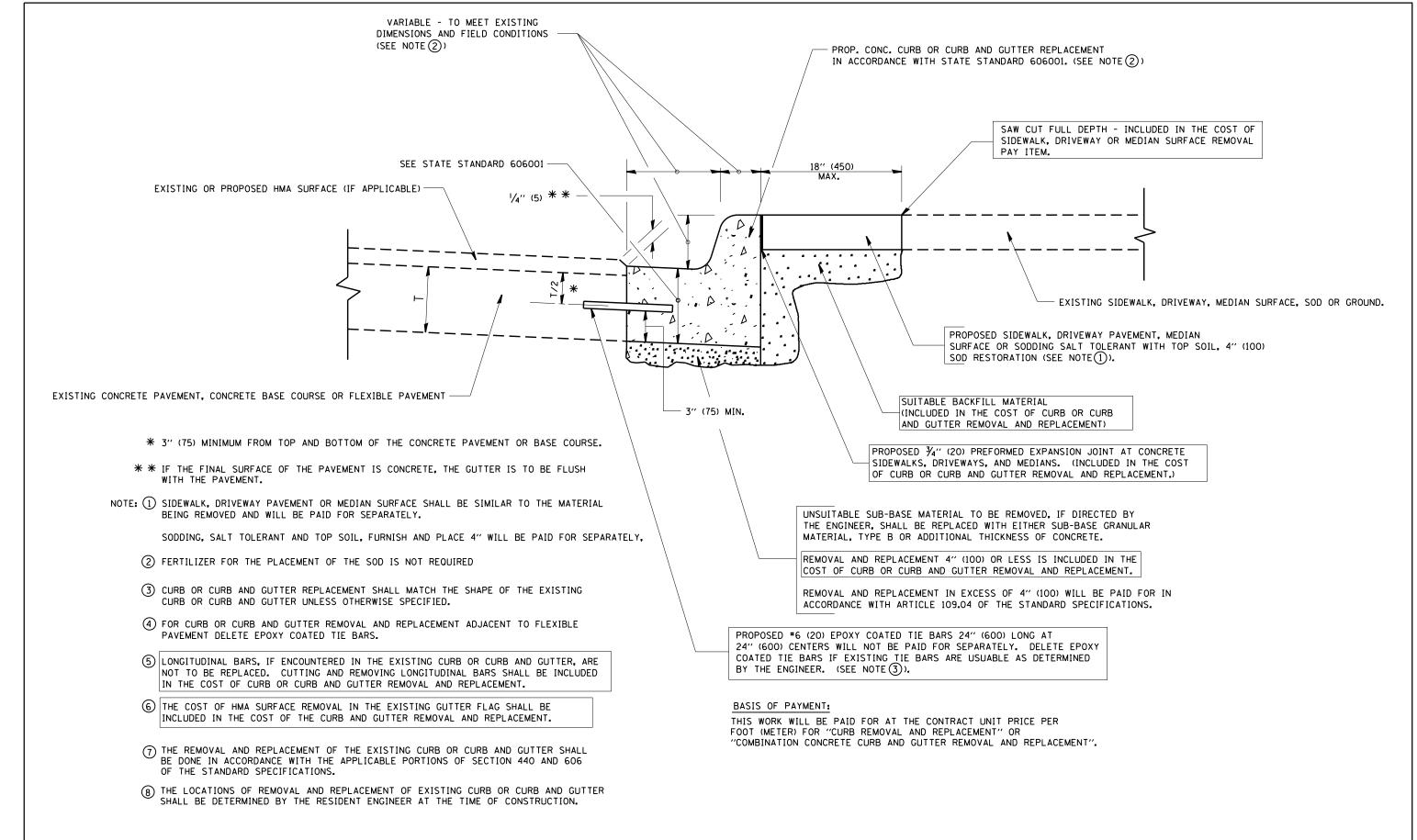
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

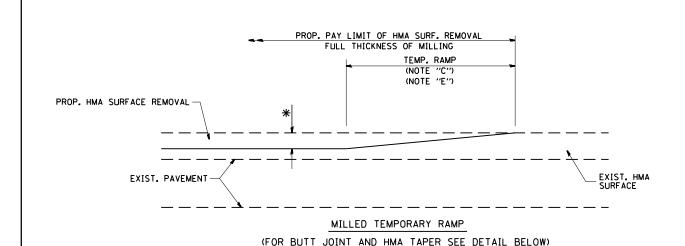
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	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 60V34
	PLOT DATE = 10/18/2013	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 JULINOIS FED. 4	



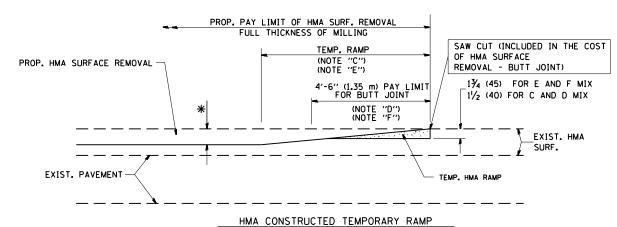
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		REMOVAL AND REPLACEMENT	ŀ	BD	600-06 (BD-24)		T NO. 60V	34
	PLOT DATE = 10/18/2013	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. T	TO STA.		DIST. NO. 1 ILLINOIS FED.			



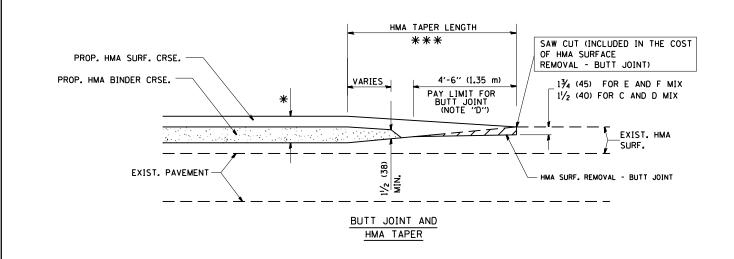
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



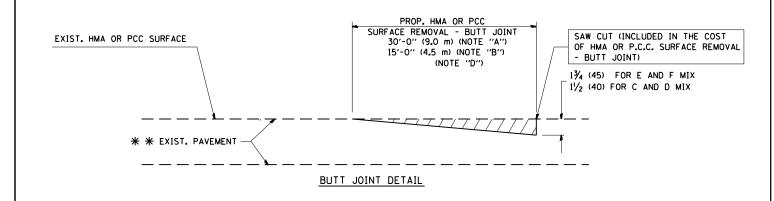
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

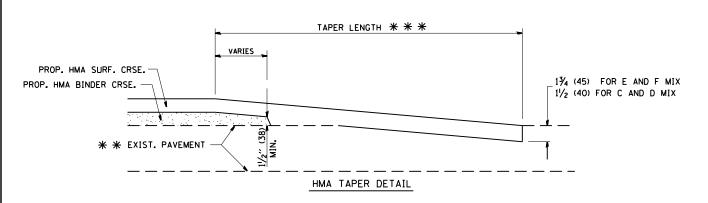
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PLOT DATE = 10/18/2013 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

 $***$ PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

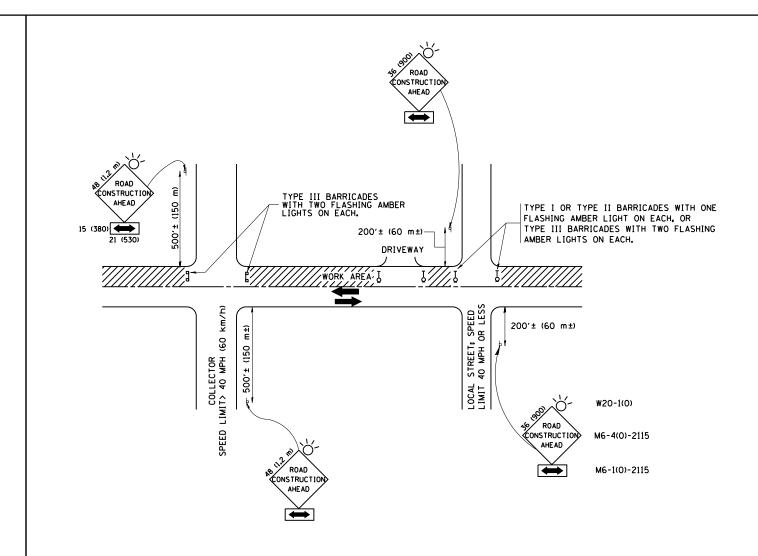
NOTES

- 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.

BASIS OF PAYMENT:

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

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



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:
- Q) 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:
- Q) 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).

SCALE: NONE

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.

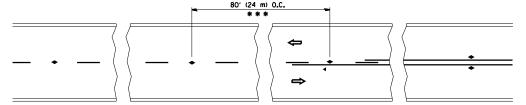
All dimensions are in millimeters (inches) unless otherwise shown.

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	PLOT DATE = 10/18/2013	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

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DEPARTMENT	0F	TRANSPORTATION

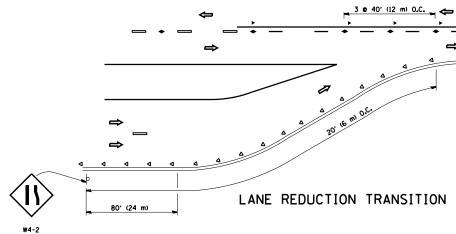
TRAFF	IC	CON	TROL	AND	PROTEC [*]	TION FOR		
						DRIVEWAYS		
SHEET NO	. 1	OF	1 :	SHEETS	STA.		то	STA.

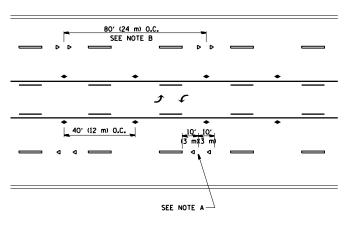
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RTE. SECTION COUNTY SHEETS	_		TC-10		CONTRACT	NO. 6	07
		372	2012-047	I	COOK	63	5
TOTAL C		F.A.P. RTE.	SECTION	l	COUNTY	TOTAL SHEETS	SH



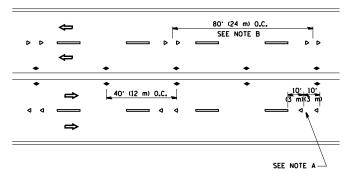
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

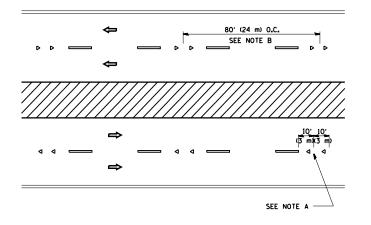




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 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.
- 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

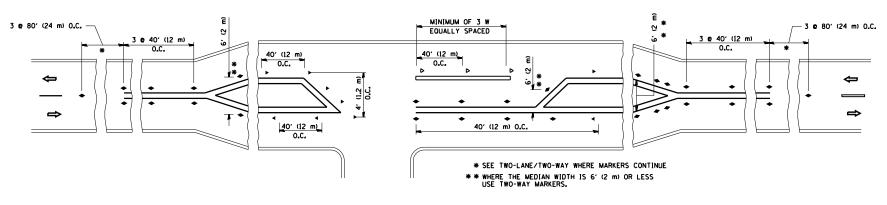
WHITE STRIPE

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



DESIGN NOTES

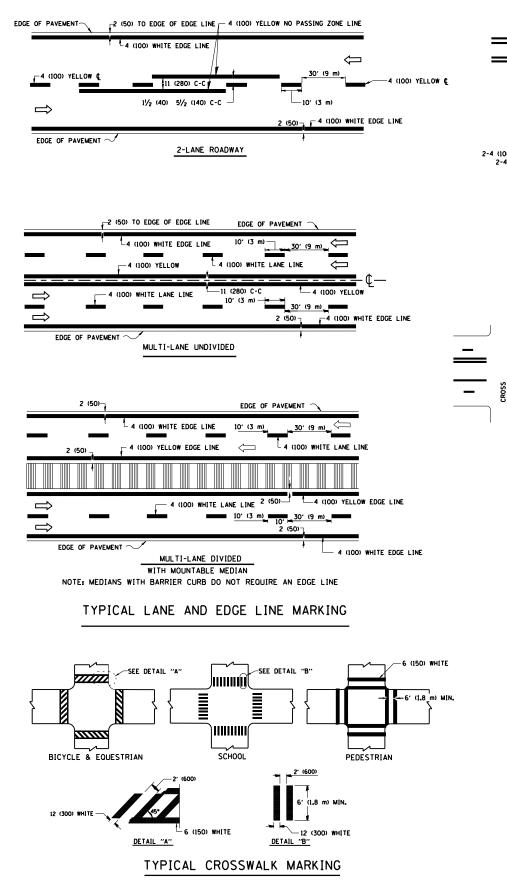
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL. MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD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

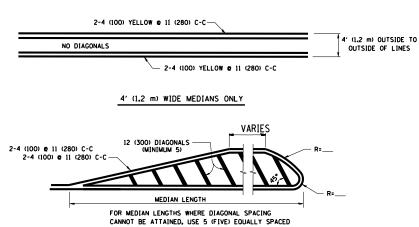


LEFT TURN

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

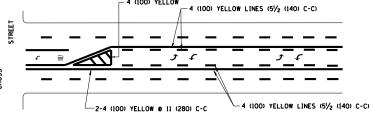
FILE NAME =	USER NAME = plascencia:	DESIGNED -	REVISED	T. RAMMACHER	R 09-19-94			TVPIC	AL APPLIC	ATIONS		RTF.	SECTION	COUNTY	SHEETS NO.
c:\pw_work\pwidot\plascenciai\d0316539\D	stStd.dgn	DRAWN -	REVISED	T. RAMMACHER	₹ 03-12-99	STATE OF ILLINOIS						372	2012-0471	соок	63 59
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	T. RAMMACHER	01-06-00	DEPARTMENT OF TRANSPORTATION	KAISED	REFLECTIVE PAVEME	NI WAKKE	:RS (SNOW_PI	LOW RESISTANT)	1	TC-11		T NO. 60V34
	PLOT DATE = 10/18/2013	DATE -	REVISED	- C. JUCIUS	09-09-09		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FED.		



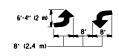


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

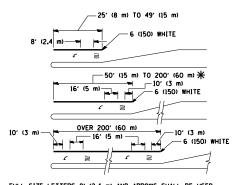


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

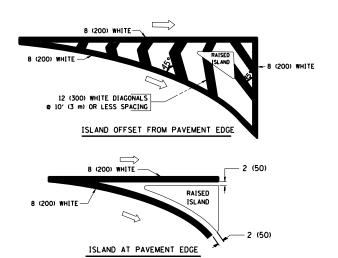


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* 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



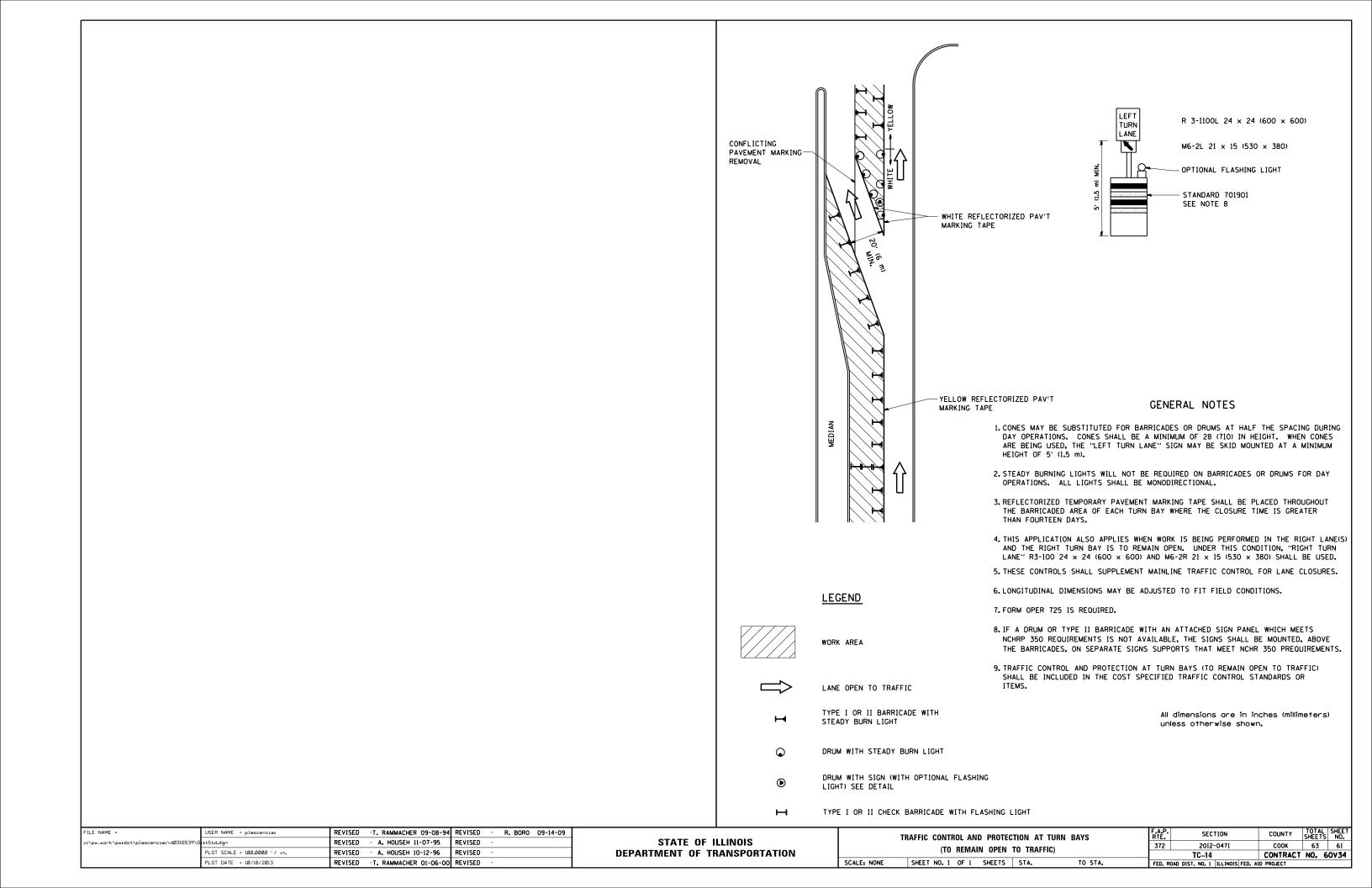
TYPICAL ISLAND MARKING

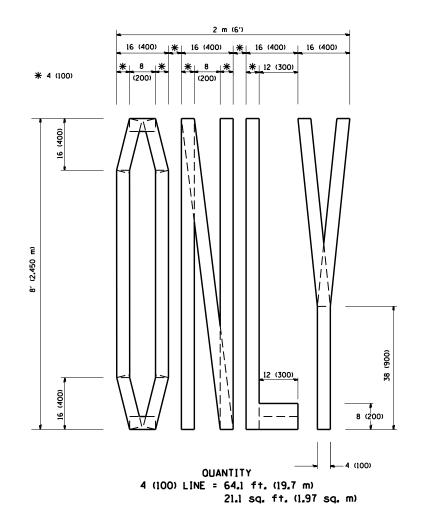
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 0 4 (100)	SOLID SOLID	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	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (I.8 m) APART 2' (GOD) APART 2' (GOD) APART 5EE 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	DIACONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (0VER 45MPH (70 km/h))
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 SQ. FT. (0.33 m ²) EACH "X":54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 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) T0 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

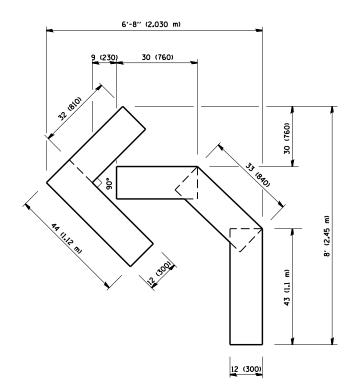
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

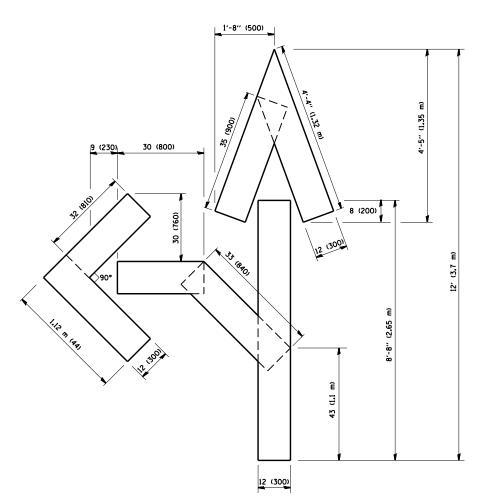
L												
	FILE NAME =	USER NAME = plascencia:	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94			DISTRICT ONE	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	c:\pw_work\pwidot\plascenciai\dØ316539\D	stStd.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09	STATE OF ILLINOIS			372	2012-0471	СООК	63	60
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TYPICAL PAVEMENT MARKINGS		TC-13	CONTRAC	T NO.	
		PLOT DATE = 10/18/2013	DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS			







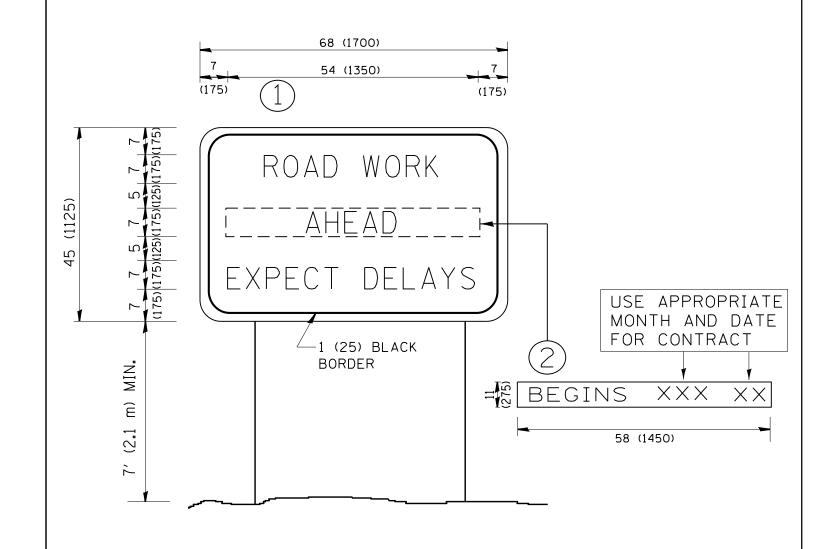
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



OUANTITY 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.

FILE NAME =	USER NAME = plascencia:	DESIGNED -	REVISED -T. RAMMACHER 06-05-96		PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\plascenciai\dØ316539\D	stStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS	TATEMENT MAINING EFFERS AND OTHERSES	372	2012-0471	СООК	63 62
	PLOT SCALE = 100.00000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FOR TRAFFIC STAGING	4.4	TC-16		NO. 60V34
	PLOT DATE = 10/18/2013	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST, NO. 1 ILLINOIS FED. AI		



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 = plascencia:	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\plascenciai\d0316539\	DistStd.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		372	2012-0471	СООК	63 63
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN			CONTRACT NO. 60V34	
	PLOT DATE = 10/18/2013	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST	D. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		