STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CLOTION		0001111	SHEETS	NO.
		COOK	35	1
	ILLINOIS	CONTRACT	NO. 12	K 15

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN DISTRICT 1 SECTION: ____ PROJECT: TRAFFIC SIGNAL MODERNIZATION **COOK COUNTY**

C-91-123-45

FOR LOCATION MAP SEE SHEET NO. 3

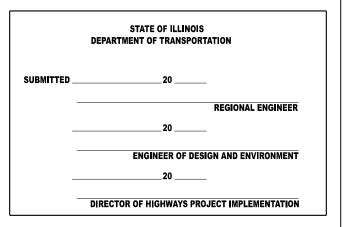
ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: IOVAN PLASCENCIA PROJECT MANAGER: NICHOLAS BUTLER

CONTRACT NO. 12X15





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INDEX OF SHEETS

SHT NO. DESCRIPTION COVER SHEET INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES LOCATION MAP 4-9 SUMMARY OF QUANTITIES DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-01) 10-16 DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS (TS-02) 17 INTERSECTION NAME SHT NO. TS NO. 18-21 4080 SOUTH PARK AVE / DR MARTIN LUTHER KING DR AT 154TH ST 265 US RTE 6 (159TH ST) AT PARK AVE 26-29 US RTE 6 (159TH ST) AT RING RD 30-33 4495 IL RTE 83 (TORRENCE AVE) AT PULASKI RD / 154TH ST SHT NO. DESCRIPTION 34 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) 35 ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

TITLE

CTD NO

STD. NO.	IIILE
000001-08	STANDARD SYMBOLS, ABREVIATIONS AND PATTERNS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULITLANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAIL
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
	000001-08 701001-02 701006-05 701101-05 701106-02 701501-06 701601-09 701606-10 701701-10 701801-06 701901-10 720001-01 814006-03 873001-02 877001-08 878001-11

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. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISCTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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.

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).

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR UNDERGROUND AND OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE AREA ENGINEER, THE RESIDENT ENGINEER AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT, AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOIR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

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

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE PROWAG/MUTCD COMPLIANT. ANY DEVIATION FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE COMPLIANCE.

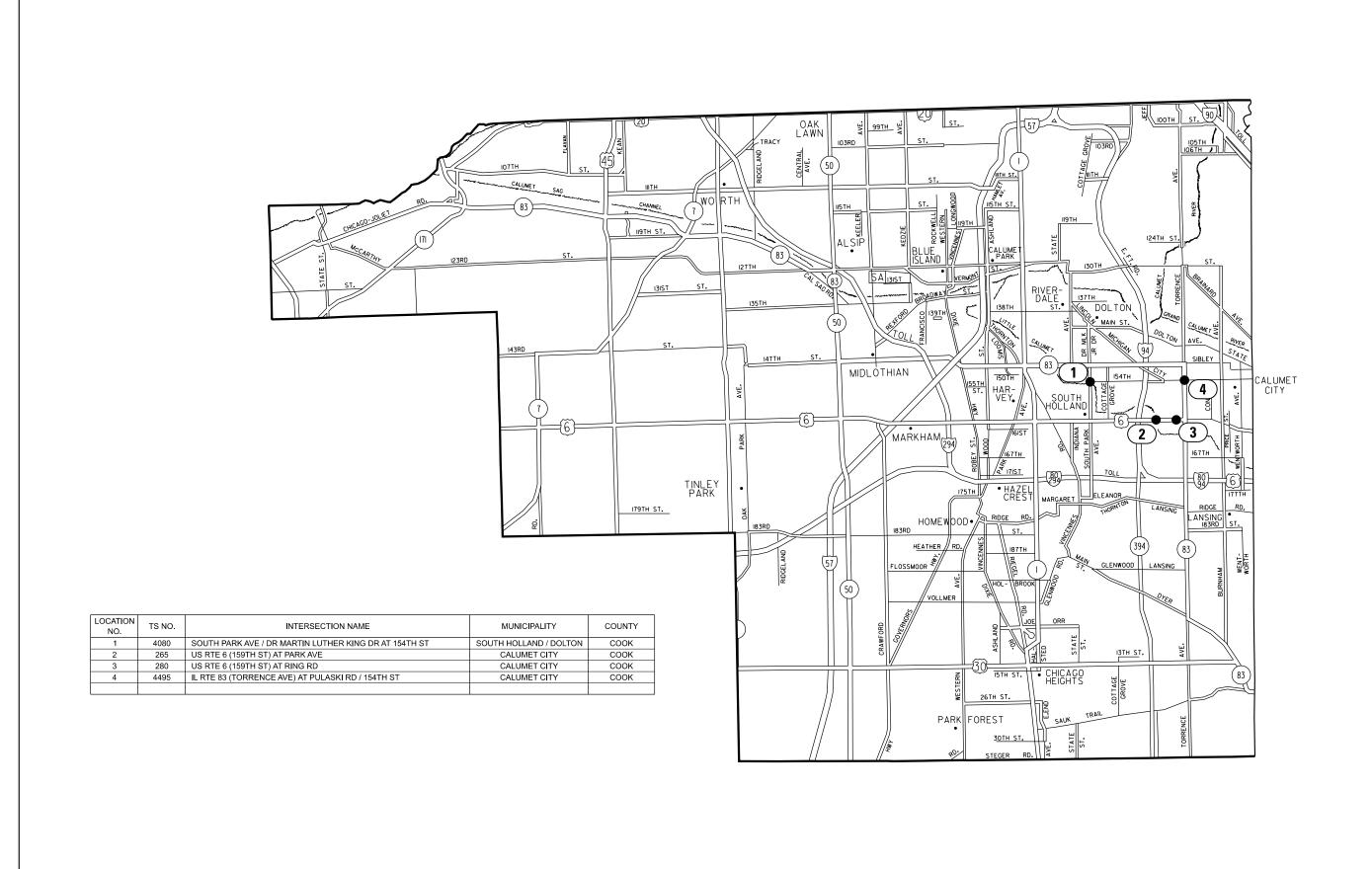
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY EXISTING SIGNS FROM THE MAST ARM ASSEMBLIES AND POSTS THAT ARE TO BE REMOVED AND TRANSFER THEM TO THE PROPOSED MAST ARM ASSEMBLIES AND POSTS PER THE STANDARD SPECIFICATIONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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						F.A. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
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						CONSTR	RUCTION CODE		
					90% FED, 6.6% STATE 1.7% DOLTON, 1.7% SOUTH HOLLAND S PARK AVE/ DR MLK DR @ 154TH ST	US 6 @ PARK AVE & IL 83 @ PULASKI		100% SOUTH HOLLAND EVP	100% CALUMET CITY EVP
CODE		ITEM	UNIT	TOTAL			FIC SIGNALS 0021		
NO.		TT CIVI	ONT	QUANTITY			URBAN		
	OURRI EMENTAL WATERING								
20101700	SUPPLEMENTAL WATERING		UNIT	1		1			
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21101615	TOPSOIL FURNISH AND PLACE, 4"		SQ YD	4		4			
									 I
25200110	SODDING, SALT TOLERANT		SQ YD	4		4			I
ı									
40400000	DODTI AND OFMENT CONODETE CIDEN	ALK F NOU	00 FT	00.5		00.5			 I
42400200	PORTLAND CEMENT CONCRETE SIDEW/	ALK 5 INCH	SQ FT	23.5		23.5			
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44000600	SIDEWALK REMOVAL		SQ FT	44		44			1
									 I
									i
66900200	NON-SPECIAL WASTE DISPOSAL		CU YD	100	18	62	20		
									I
66900530	SOIL DISPOSAL ANALYSIS		EACH	4	1	2	1		
	OGIE BIGI GOMENTO LET GIO		27.011	•	'		'		<u> </u>
66901001	REGULATED SUBSTANCES PRE-CONSTR	RUCTION PLAN	L SUM	1	0.25	0.5	0.25		I
66901003	REGULATED SUBSTANCES FINAL CONST	TRUCTION REPORT	L SUM	1	0.25	0.5	0.25		
									I
66901006	REGULATED SUBSTANCES MONITORING	G	CAL DA	16	4	8	4		
67100100	MOBILIZATION		L SUM	1	0.25	0.5	0.25		I
70102620	TRAFFIC CONTROL AND PROTECTION, S	STANDADD 701501	L SUM	1	0.25	0.5	0.25		 I
70102020	THAITIC CONTROLAND I ROTECTION, C	OTANDARD 701301	LSOW	'	0.20	0.5	0.20		İ
70102625	TRAFFIC CONTROL AND PROTECTION, S	STANDARD 701606	L SUM	1	0.25	0.5	0.25		I
70102630	TRAFFIC CONTROL AND PROTECTION, S	STANDARD 701601	LSUM	1	0.25	0.5	0.25		
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			I	·	1		ı	1	
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				90% FED, 6.6% STATE 1.7% DOLTON, 1.7% SOUTH HOLLAND S PARK AVE/ DR MI K DR @ 154TH ST	CONSTRUC 90% FED, 5% STATE 5% CALUMET CITY US 6 @ PARK AVE & IL 83 @ PULASKI RD	90% FED, 6.7% STATE 3.3% CALUMET CITY	100% SOUTH HOLLAND EVP	100% CALUMET CITY EVP
				3 FARRAVE/ DR WER DR @ 13411131	TRAFFIC		LVF	LVF
CODE	ITEM	UNIT	TOTAL QUANTITY		00			
NO.			QUANTITY		URI			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25	0.5	0.25		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.25	0.5	0.25		
72000100	SIGN PANEL - TYPE 1	SQ FT	37.5	12	13.5	12		
72000100	SIGN PANEL-TIPE I	SQFI	37.3	12	13.3	12		
72000200	SIGN PANEL - TYPE 2	SQ FT	108.75	20	77.5	11.25		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	527	28	453	46		
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	411	99	197	115		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	868	63	633	172		
81400100	HANDHOLE	EACH	2		2			
81400200	HEAVY-DUTY HANDHOLE	EACH	1			1		
81400300	DOUBLE HANDHOLE	EACH	2		2			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	1	2	1		
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2		1	1		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,350	440	911			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,090	456	931		462	1,239
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				90% FED, 6.6% STATE 1.7% DOLTON, 1.7% SOUTH HOLLAND S PARK AVE/ DR MLK DR @ 154TH ST	CONSTRUC 90% FED, 5% STATE 5% CALUMET CITY US 6 @ PARK AVE & IL 83 @ PULASKI RD	90% FED, 6.7% STATE 3.3% CALUMET CITY	100% SOUTH HOLLAND EVP	100% CALUMET CITY EVP
0005			TOTAL	STARRAVE, BICINER BICIG 134111 ST	TRAFFIC		LVI	LVI
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		00			
110.			QUANTITI		URE	BAN		1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	8,230	1,826	4,762	1,636		
0/301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	F001	6,230	1,020	4,762	1,030		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,410	228	1,393	783		
	ELECTRIC GREET IN CORRECT, SIGNAL INC. 11 10	1 331	2,110		1,,000	100		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,500	708	2,749	1,039		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,585	260	995	330		
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	8	3	4	1		
07700400	OTEST MAGT ADM ACCEMBLY AND DOLE OC ST	54011	0					
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2	1	1			
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1			
07700190	OTELE WAST ANW ASSEMBLT AND TOLE, 30 TT.	EAGIT	'		'			
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1				
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	3	1	1	1		
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	2		1	1		
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1		1			
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2		2			
01100280	STELL IVIAST ARIVI ASSENDET AND PULE, 40 FT.	EACH			2			
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2		1	1		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24	8	16			
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				90% FED, 6.6% STATE 1.7% DOLTON, 1.7% SOUTH HOLLAND S PARK AVE/ DR MLK DR @ 154TH ST	CONSTRUC 90% FED, 5% STATE 5% CALUMET CITY US 6 @ PARK AVE & IL 83 @ PULASKI RD	90% FED, 6.7% STATE 3.3% CALUMET CITY	100% SOUTH HOLLAND EVP	100% CALUMET CITY EVP	
CODE			TOTAL	THE TOTAL STATE OF THE TOTAL STA	TRAFFIC				
NO.	ITEM	UNIT	QUANTITY	0021					
			Q0/111111		URE	BAN	1		
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	87.5	37	37	13.5			
07000400	CONCRETE FOUNDATION, TTPE E 30-INCH DIAMETER	F001	07.5	31	31	13.5			
07000445	CONCRETE FOUNDATION TYPE F 20 INCH DIAMETER	FOOT	0.5		67	20			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	95		67	28			
87900200	DRILL EXISTING HANDHOLE	EACH	31	9	14	8			
07900200	DRILL EXISTING HANDHOLE	EAGIT	31	9	14	0			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	27	5	16	6			
				-	1-	•			
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	21	5	12	4			
								 	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8	1	4	3			
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7	1	4	2			
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6	6					
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	34	6	20	8			
88500100	INDUCTIVE LOOP DETECTOR	EACH	18	2	8	8			
								 	
88600100	DETECTOR LOOP, TYPE I	FOOT	246		150	96			
9050000	DELOCATE EVICTINO DEDECEDIANI CIONAL LICAD	FACU	4		4				
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4		4			<u> </u>	
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	4		4				
20000400	TREESON E ENGLISO LEGENINA OUTPOTTON	LACI	-		7			 	
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	8				2	6	
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STATE	OF ILLINOIS
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SUMMARY OF QUANTITIES								
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89502300 REMOVE ELE 89502350 REMOVE AND 89502375 REMOVE EXI 89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S	ITEM EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT ECTRIC CABLE FROM CONDUIT D REINSTALL ELECTRIC CABLE FROM CONDUIT ISTING TRAFFIC SIGNAL EQUIPMENT ISTING HANDHOLE	EACH FOOT EACH EACH	TOTAL QUANTITY 2 7,730 470 4	90% FED, 6.6% STATE 1.7% DOLTON, 1.7% SOUTH HOLLAND S PARK AVE/ DR MLK DR @ 154TH ST 2,080	TRAFFI(90% FED, 6.7% STATE 3.3% CALUMET CITY US 6 @ RING RD C SIGNALS 2021 RBAN 2,320 230	100% SOUTH HOLLAND EVP	100% CALUMET CITY EVP
NO. RELOCATE E 89501410 RELOCATE E 89502300 REMOVE ELE 89502350 REMOVE AND 89502375 REMOVE EXI 89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI 80502385 REMOVE EXI	EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT ECTRIC CABLE FROM CONDUIT D REINSTALL ELECTRIC CABLE FROM CONDUIT ISTING TRAFFIC SIGNAL EQUIPMENT ISTING HANDHOLE	FOOT FOOT EACH	QUANTITY 2 7,730 470	2,080	3,330 240	2,320		
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89502350 REMOVE ELE 89502350 REMOVE AND 89502375 REMOVE EXI 89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI 80502385 REMOVE EXI 80502385 REMOVE EXI 80502385 PEDESTRIAN 805700407 ENGINEER'S	ECTRIC CABLE FROM CONDUIT D REINSTALL ELECTRIC CABLE FROM CONDUIT ISTING TRAFFIC SIGNAL EQUIPMENT ISTING HANDHOLE	FOOT FOOT	7,730 470		3,330	2,320		2
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89502350 REMOVE AND 89502375 REMOVE EXI 89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI 80324085 EMERGENCY 81400367 PEDESTRIAN 86700407 ENGINEER'S	D REINSTALL ELECTRIC CABLE FROM CONDUIT STING TRAFFIC SIGNAL EQUIPMENT STING HANDHOLE	FOOT	470		240	230		
89502350 REMOVE AND 89502375 REMOVE EXI 89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S	D REINSTALL ELECTRIC CABLE FROM CONDUIT STING TRAFFIC SIGNAL EQUIPMENT STING HANDHOLE	FOOT	470		240	230		
89502375 REMOVE EXI 89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S	STING TRAFFIC SIGNAL EQUIPMENT STING HANDHOLE	EACH	4	1				
89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S	STING HANDHOLE			1	2	1		
89502376 REBUILD EXI 89502380 REMOVE EXI 89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S	STING HANDHOLE			1	2	1		
89502380 REMOVE EXI 89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S		EACH	2		1			
89502380 REMOVE EXI 89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S				2				
89502385 REMOVE EXI X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S	STING HANDHOLE							
X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S		EACH	10		7	3		
X0324085 EMERGENCY X1400367 PEDESTRIAN X6700407 ENGINEER'S				_		_		
X1400367 PEDESTRIAN X6700407 ENGINEER'S	ISTING CONCRETE FOUNDATION	EACH	28	7	16	5		
X6700407 ENGINEER'S	Y VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,705				462	1,239
X6700407 ENGINEER'S								
	N SIGNAL POST, 10 FT.	EACH	2	2				
X7200061 TEMPORARY	FIELD OFFICE, TYPE A (D1)	CAL MO	12					
X7200061 TEMPORARY								
	'INFORMATION SIGNING	SQ FT	205.6	51.4	102.8	51.4		
X8570227 FULL-ACTUA	TED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	2		1	1		
	(·			
X8620250 UNINTERRUF	PTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	2		1	1		
V0760200 A 20502151 5		FACU						
X8760200 ACCESSIBLE	DEDECTRIAN CIONALO	EACH	6	6				
	E PEDESTRIAN SIGNALS		<u> </u>					

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					CONSTRUCT				
				90% FED, 6.6% STATE 1.7% DOLTON, 1.7% SOUTH HOLLAND S PARK AVE/ DR MLK DR @ 154TH ST	US 6 @ PARK AVE & IL 83 @ PULASKI RD	90% FED, 6.7% STATE 3.3% CALUMET CITY US 6 @ RING RD	100% SOUTH HOLLAND EVP	100% CALUMET CITY EVP	
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/0700040 CON	COSTS SOUNDATION TYPE A 40 INCLUDIANTEED	FOOT		0					
(8780012 CON	CRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8	8					
8809005 LED	SIGNAL FACE, LENS COVER	EACH	63	12	36	15			
891009 VIDE	O VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2		2				
033044 RE-O	PTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	4	1	2	1			
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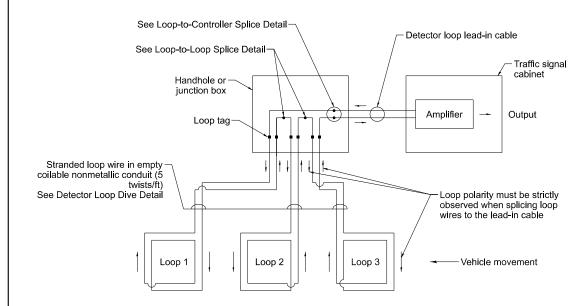
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TRAFFIC SIGNAL LEGEND

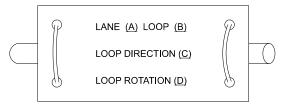
<u>ITEM</u>	EXISTING	PROPOSED	<u>ITEM</u>	<u>existing</u>	<u>PROPOSED</u>	<u>ITEM</u>	<u>EXISTING</u>	PROPOSED				
Traffic Signal Cabinet			Handhole -Square -Round			Signal Head -(P) Programmable Signal Head -(EV) Elongated Visors	R R P P P P P P P P P P P P P P P P P P	R				
Uninterruptable Power Supply	4	9				-(LV) Librigated visors	P EV	P EV				
Communication Cabinet	ECC	СС	Double Handhole			Signal Head with Backplate -(RB) Retroreflective Backplate	RRRR	R R R Y				
Master Controller Master Master Controller	EMMC	мс	Heavy Duty Handhole -Square -Round	Ш	H (1)	-(RB) Retrotellective Backplate -(P) Programmable Signal Head -(EV) Elongated Visors	R P EV	R R P EV				
Service Installation -(P) Pole Mounted	— — P	- P	Junction Box	0	•	Pedestrian Signal Head	(A) D	₽ C 1 D				
Service Installation			Railroad Cantilever Mast Arn	n X OX X	X eX X	with Countdown Timer	(/k) □	[/ *] D]				
-(G) Ground Mounted -(GM) Ground Mounted Metered	$\boxtimes^{G} \boxtimes^{G}$	GM	Railroad Flashing Signal	∑o ∑	X⊕X	Illuminated LED Sign "NO LEFT TURN"/"NO RIGHT TURN"						
Cellular Modem	См (iô	€ CM	Railroad Crossing Gate	₹0 ₹>	X•X-							
			Railroad Crossbuck	· ·	*	Electric Cable, Signal, No. 14 - 2/C, 3/C, 5/C, 7/C						
Telephone Connection	ET	ī	Railroad Controller Bungalov	N R		Electric Cable, Lead-In, No. 14, 1 Pair	—					
Steel Mast Arm Assembly and Pole Aluminum Mast Arm Assembly and		_		V_V		Service Cable, 2/C -	2#2					
Steel Combination Mast Arm Asser	_		Underground Conduit (UC), Galvanized Steel			No. 2, No. 4, No. 6	2#4	——————————————————————————————————————				
and Pole with Luminaire	UQ-	•	Temporary Span Wire,					2#6				
Signal Post -(BM) Barrel Mounted - Temporary	0	• • B		2	0.5	Ground Cable						
Wood Pole	\otimes	9	System Item Intersection Item	S	SP IP	No. 6 Solid Copper (Green), 1/C	- 1#6 - -	- 1#6				
Guy Wire	>-	>	Removal Item	·	r R	Electric Cable, Tracer, No. 14, 1/C						
Signal Head		-	Relocate Item		RL		Railroad No. 14 3/C	Rallroad No. 14 3/C				
Signal Head with Backplate	+	+ > P P	Abandon Item		А	Electric Cable, Railroad, No. 14, 3/C	No. 14 3/C	No. 14 3/C				
Signal Head - Programmable		>' +▶	Controller Cabinet and		RCF		soow –	soow –				
Flasher Installation -(FS) Solar Powered		ES E			RMF	Electric Cable, Street Name Sign No. 14, 3/C, Type SOOW		3				
Pedestrian Signal Head	-[]	4	Signal Post and		RPF	Vendor Cable	<u></u>	<u></u>				
Pedestrian Push Button -(APS) Accessible Pedestrian Pusl			Foundation to be Removed Detector Loop, Type I	ш о ш о		Emergency Vehicle Priority Line Sensor Cable, No. 20, 3/C	3#20					
Radar Detection Sensor	R	R	Preformed Detector Loop	[P] (P)	P P	Outdoor Rated Network Cable	—ONC	—ONC				
Video Detection Camera	(V)	V	Wireless Detector Sensor	<u></u>	©	Fiber Optic Cable	. —	_				
Radar/Video Detection Zone			7770000 2010000 0011001		•	-12F: 12 Multimode -24F: 12 Multimode / 12 Single Mode	— 12F — 24F					
Pan, Tilt, Zoom (PTZ) Camera	PTZ	PTZ				-36F: 12 Multimode / 24 Single Mode -24SM: 24 Single Mode		—(36F)—				
Emergency Vehicle Light Detector	\bowtie	~				-48SM: 48 Single Mode		— 24F — 36F — 24SM				
Confirmation Beacon	o-()	H						—(48SM)—				
Wireless Interconnect	○+1 	• •• 				Ground Rod	C M B S	C M B C				
Wireless Interconnect Radio Repe		RR				-(C) Controller -(M) Mast Arm	$\stackrel{\underline{}}{\overline{}}^{C} \stackrel{\underline{}}{\overline{}}^{M} \stackrel{\underline{}}{\overline{}}^{P} \stackrel{\underline{}}{\overline{}}^{S}$	$\stackrel{\stackrel{\perp}{=}^{C}}{\stackrel{\uparrow}{=}}^{M} \stackrel{\stackrel{\perp}{=}^{P}}{\stackrel{\stackrel{\perp}{=}^{S}}{\stackrel{\uparrow}{=}}}$				
Wireless Access Point						-(P) Post -(S) Service						
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DETECTOR LOOP NOTES:

- 1. LOOPS SHALL BE SPLICED IN SERIES.
- 2. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" AT A DEPTH OF 3". IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- 3. LOOP CORNERS SHALL BE DRILLED WITH A 2" DIAMETER CORE.
- 4. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NON-METALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6". EMPTY COILABLE NON-METALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE DETECTOR LOOP PAY ITEM.
- 5. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 6. EACH LEAD-IN CABLE SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP NUMBER, LOOP DIRECTION (IN OR OUT), AND LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE) IN WATER PROOF INK. SEE DETECTOR LOOP LEAD-IN CABLE TAG DETAIL. THE CONTRACTOR SHALL MARK THE LOOP LOCATIONS ON THE RECORD DRAWINGS AND PRESENT THEM TO THE ENGINEER AFTER THE FINAL INSPECTION.
- 7. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 8. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND THE DIVE HOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" APART.
- 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.
- 10. PREFORMED DETECTOR LOOPS SHALL BE USED WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

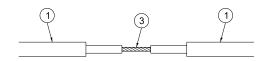


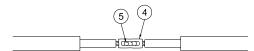
DETECTOR LOOP WIRING SCHEMATIC

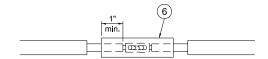


- A. Lane 1 is the lane closest to the centerline of the roadway.
- B. Loop #1 is the loop closest to the intersection.
- C. Label loop cable "in" or loop cable "out".
- D. Label loop cable clockwise or loop cable counterclockwise.

DETECTOR LOOP LEAD-IN CABLE TAG



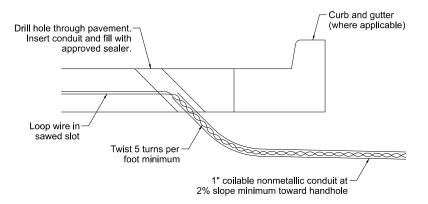




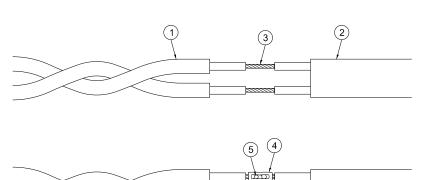


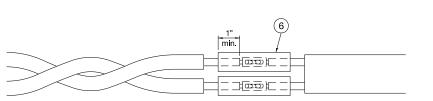
LOOP-TO-LOOP SPLICE DETAIL

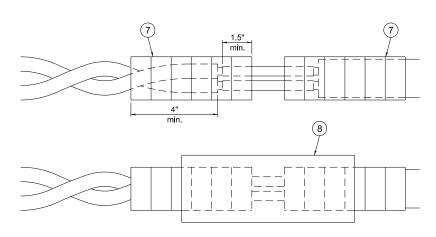
- Detector loop cable.
- 2 Detector loop lead-in cable
- (3) Bare conductors twisted together.
- (4) Butt splice crimp connector.
- (5) Splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth. The splices shall be staggered.
- (6) WCSMW 30/100 heat shrink tube, 3" minimum length, underwater grade.
- (7) Self-infused, silicone electrical tape tightly wrapped around cables.
- 8) WCS 200/750 heat shrink tube, 8" minimum length, underwater grade.



DETECTOR LOOP DIVE DETAIL





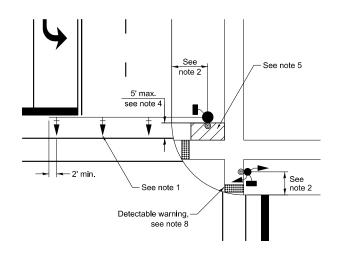


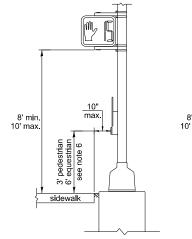
LOOP-TO-CONTROLLER SPLICE DETAIL

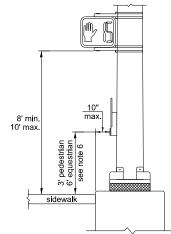
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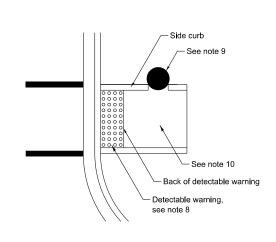
- 1. THE MAST ARM MOUNTED SIGNAL HEADS SHALL BE CENTERED ON THE LANES OR AS SHOWN ON THE TRAFFIC SIGNAL PLANS.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET MINIMUMS TABLE.
- 3. A 4' MINIMUM UNOBSTRUCTED PEDESTRIAN ACCESS ROUTE SHALL BE MAINTAINED.
- 4. THE PUSH-BUTTON SHALL BE LOCATED 5' OR LESS FROM THE OUTSIDE EDGE OF THE MARKED CROSSWALK FARTHEST FROM THE INTERSECTION FOR THE CROSSWALK THAT THE PUSH-BUTTON CONTROLS.
- 5. IF THE MAST ARM POLE OR SIGNAL POST WHERE THE PUSH-BUTTON IS TO BE INSTALLED IS NOT IMMEDIATELY ADJACENT TO THE SIDEWALK, PROVIDE A FIRM, STABLE, AND SLIP RESISTANT SURFACE UP TO THE MAST ARM POLE OR SIGNAL POST. THE MINIMUM PAVED AREA IN FRONT OF THE PUSH-BUTTON SHALL BE 2.5' X 4'. IF THIS DOES NOT MEET THE REQUIREMENT STATED IN NOTE 3, A SEPARATE PEDESTRIAN SIGNAL POST SHALL BE INSTALLED TO PLACE THE PUSH-BUTTON ADJACENT TO THE SIDEWALK SURFACE.
- 6. THE HEIGHT OF THE PEDESTRIAN PUSH-BUTTON SHALL BE 36". IF APPROVED BY THE AREA TRAFFIC SIGNAL ENGINEER, THE PUSH-BUTTON MAY BE LOCATED AT A HEIGHT BETWEEN 30" AND 42". THE HEIGHT OF THE EQUESTRIAN PUSH-BUTTON SHAL BE 72" OR AS DIRECTED BY THE ENGINEER.
- 7. THE FACE OF THE PUSH-BUTTON SHALL BE PARALLEL TO THE CROSSWALK IT CONTROLS.
- 8. THE PUSH-BUTTON SHALL BE LOCATED BEHIND THE DETECTABLE WARNING.
- 9. WHERE A PUSH-BUTTON IS BEING INSTALLED ON A MAST ARM POLE OR SIGNAL POST ADJACENT TO THE PEDESTRIAN ACCESS ROUTE, THE PROPOSED FOUNDATION SHALL BE INSTALLED WITHIN THE SIDE CURB IN ORDER TO MEET THE 10" REACH REQUIREMENT.
- 10. THE SIDEWALK PANEL IN FRONT OF THE PUSH-BUTTON SHALL HAVE A SLOPE LESS THAN 5%
- 11. WHERE TWO PEDESTRIAN PUSH-BUTTONS ARE PROVIDED ON THE SAME CORNER, THEY SHALL BE 10' OR MORE APART. EXCEPTION: IN ALTERATIONS WHERE TECHNICALLY INFEASIBLE TO PROVIDE 10' SEPARATION BETWEEN PUSH-BUTTONS ON THE SAME CORNER.
- 12. CORRESPONDING PEDESTRIAN EQUIPMENT (SIGNAL HEAD AND PUSH-BUTTON) SHALL BE INSTALLED ON THE SAME POST CLOSEST TO THE CROSSWALK IT CONTROLS.
- 13. PEDESTRIAN SIGNAL HEADS INSTALLED ON MAST ARM POLES OR SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' OR MORE THAN 10' ABOVE SIDEWALK LEVEL. PEDESTRIAN SIGNAL HEADS INSTALLED ON PEDESTRIAN SIGNAL POSTS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) NOT LESS THAN 8' ABOVE SIDEWALK LEVEL. THE PEDESTRIAN SIGNAL HEADS SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 14. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

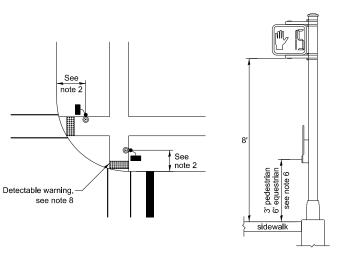


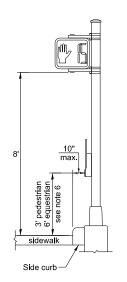


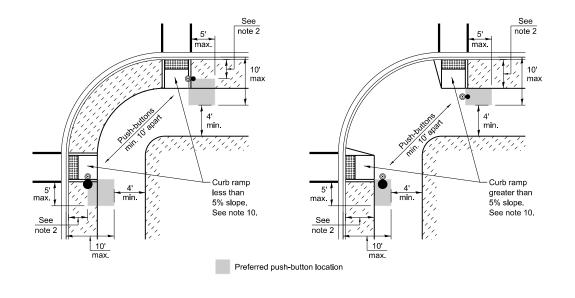




PEDESTRIAN SIGNAL POST







PUSH-BUTTON LOCATIONS

BARRIER CURB SHOULDER / NON-BARRIER CURB (MINIMUM DISTANCE FROM THE BACK OF CURB (MINIMUM DISTANCE FROM THE EDGE LINE OF THE TRAFFIC SIGNAL EQUIPMENT TO THE CENTER OF THE FOUNDATION) RIGHT-MOST LANE TO THE CENTER OF THE FOUNDATION) Mast arm assembly and pole Shoulder width + 2', minimum 10' Signal post Shoulder width + 2', minimum 10' Pedestrian signal post 4' - See note 2 Temporary wood pole Shoulder width + 2', minimum 10' Traffic signal cabinet 6' - See Note 3 Shoulder width + 6', minimum 16' - See note 3 Service cabinet 6' - See Note 3 Shoulder width + 6', minimum 16' - See note 3

TRAFFIC SIGNAL EQUIPMENT OFFSET MINIMUMS

NOTES:

- 1. CONTACT THE AREA TRAFFIC SIGNAL ENGINEER FOR ASSISTANCE LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS AND THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF THE DETECTABLE WARNING.
- 3. MINIMUM DISTANCE TO THE ROADWAY SIDE OF THE FOUNDATION.

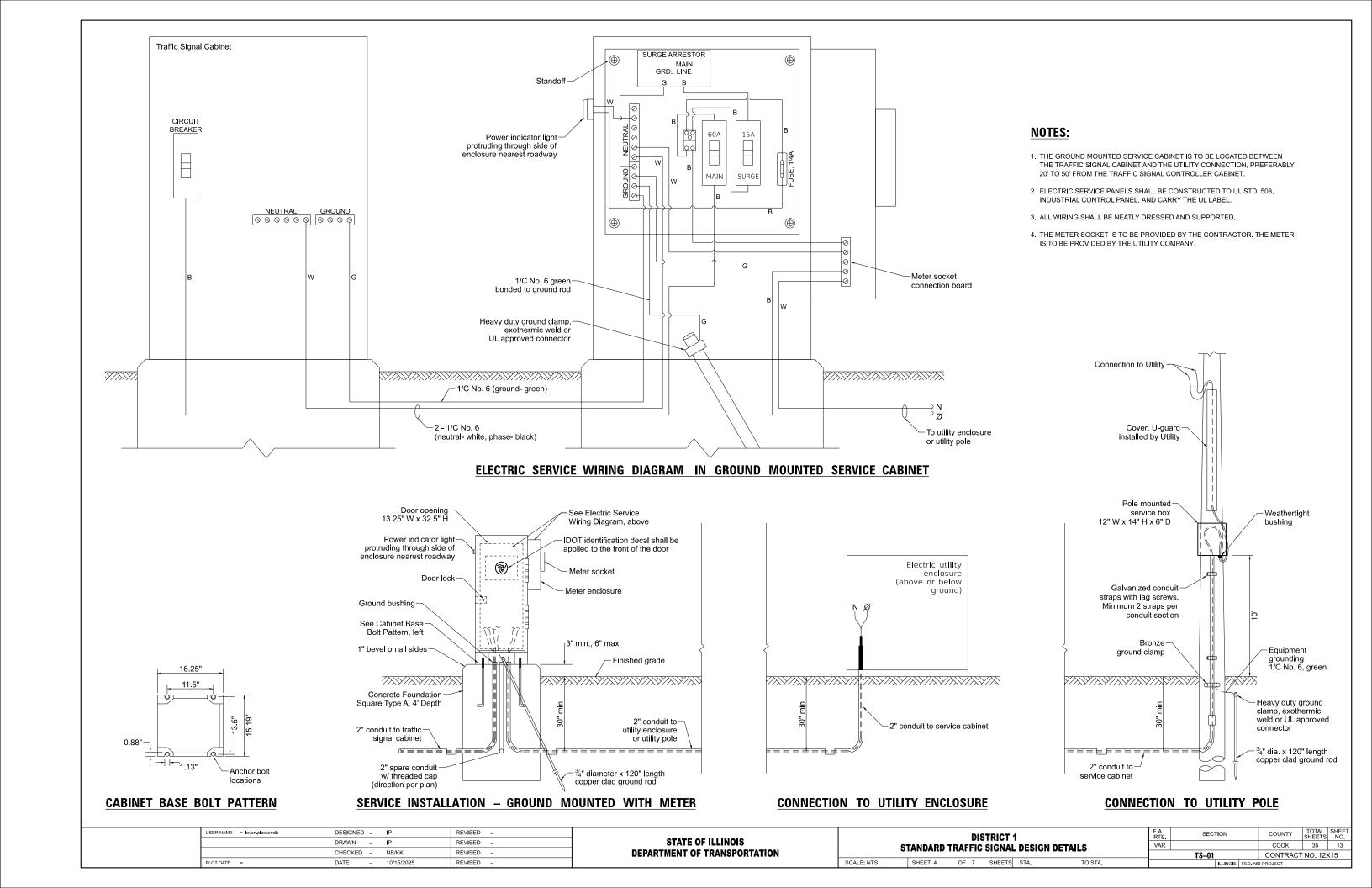
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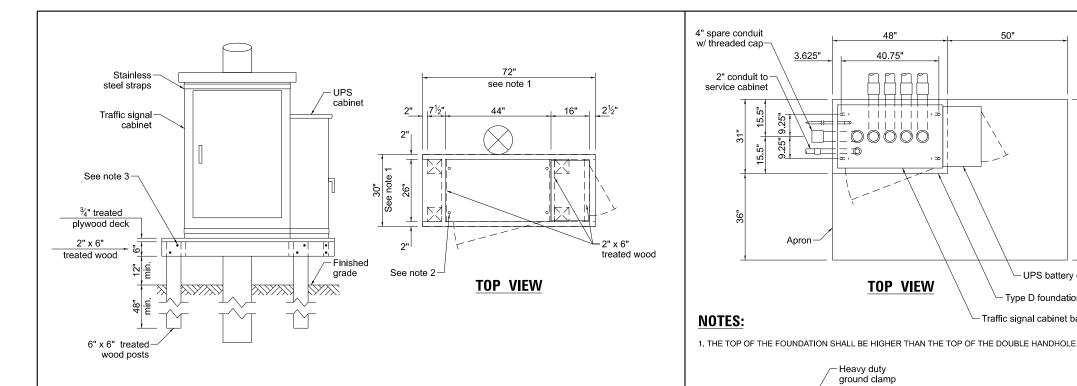
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" TABLE AND THE TRAFFIC SIGNAL PLAN COULD AFFECT THE PLACEMENT OF THE TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND THE PEDESTRIAN PUSH-BUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THESE REQUIREMENTS. THE LOCATIONS OF THE PEDESTRIAN PUSH-BUTTONS AND PEDESTRIAN SIGNAL HEADS SHALL MEET THE REQUIREMENTS OF THE MUTCD, PROWAG, AND THE REQUIREMENTS ON THIS DETAIL SHEET.

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DEPARTMENT OF TRANSPORTATION

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- 1. THE PLATFORM SIZE IS BASED ON A TRAFFIC SIGNAL CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" AND UNINTERRUPTABLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25". ADJUST THE PLATFORM SIZE TO FIT THE BASE DIMENSIONS OF THE CABINET SUPPLIED.
- 2. DRILLED HOLES THROUGH THE PLATFORM ARE TO MATCH THE TRAFFIC SIGNAL CABINET BOLT TEMPLATE. THE CABINET SHALL BE FASTENED TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS, AND NUTS.
- 3. ALL WOOD SUPPORT FRAMING SHALL BE FASTENED TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY TRAFFIC SIGNAL CABINET WOOD SUPPORT PLATFORM

MAST ARM LENGTH	Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30'	10'	30"	24"	8	#6
Greater than or equal to 30'	13.5'	30"	24"	8	#6
and less than 40'	11'	36"	30"	12	#7
Greater than or equal to 40' and less than 50'	13'	36"	30"	12	#7
Greater than or equal to 50' and up to 55'	15'	36"	30"	12	#7
Greater than or equal to 56' and less than 65'	21'	42"	36"	16	#8
Greater than or equal to 65' and up to 75'	25'	42"	36"	16	#8

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FOUNDATION Type A - Signal post, service cabinet Type C - Traffic signal cabinet with UPS Type D - Traffic signal cabinet

> **DEPTH OF FOUNDATIONS** TYPES A, C & D

TYPE E FOUNDATION NOTES:

- 1. FOR STANDARD AND COMBINATION MAST ARM ASSEMBLIES, FOUNDATION DEPTHS FOR STANDARD DUAL MAST ARMS WITH THE LONGEST ARM LENGTH UP TO AND INCLUDING 55' SHALL BE INCREASE BY 1' OF THAT SHOWN IN THE TABLE, BASED ON THE LONGER OF THE TWO ARMS.
- 2. SEE STATE STANDARD 878001 CONCRETE FOUNDATION DETAILS FOR MORE INFORMATION.

EPTH	VERTICAL CABLE L	LENGTH
4' 4'	Mast arm mounted signal head (L = mast arm length - distance to signal head from end of arm)	20'+L
4'	Bracket mounted signal head (mast arm pole or signal pole)	13'
	Pedestrian signal head	10'
	Pedestrian push button	6'
	Service installation pole mount to service drop	13.5'
	Service installation pole mount to ground	13.5'
	Service installation ground mount	6'
	Foundation (signal post, mast arm, traffic signal cabinet, service cabinet)	3'

40.75"

:0000

TOP VIEW

- Heavy duty

Ground rod

ground clamp

Ground bushing

-4-4" conduits to

TYPE D FOUNDATION

TYPE IV AND TYPE V TRAFFIC SIGNAL CABINET

AND UPS BATTERY CABINET

double handhole

3" min.

see note 1

3.625"

2" conduit to

No. 6 bare

copper wire

1" Bevel

VERTICAL CABLE LENGTH

CABLE SLACK LENGTH 6.5' Handhole Double handhole 13' 2' Signal post Mast arm 2' Traffic signal cabinet or service cabinet 1.5' 13' Fiber optic cable at traffic signal cabinet 1.5' Ground cable at signal post, mast arm, or cabinet 6.5' Ground cable at handhole or double handhole Ground cable between handhole frame and cover 5'

1. THE TOP OF THE FOUNDATION SHALL BE HIGHER THAN THE TOP OF THE DOUBLE HANDHOLE.

TOP VIEW

40.75"

D0000

19.875"

UPS battery

Traffic signal cabinet base

compartment

Type C foundation

4" spare conduit

w/ threaded cap-

2" conduit to-

service cabinet

NOTES:

- UPS battery cabinet

- Finished

grade

Type D foundation

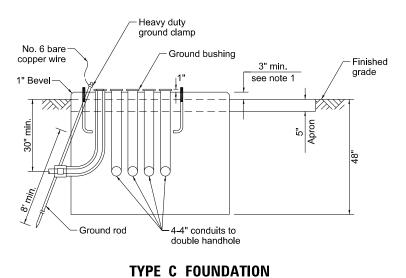
Traffic signal cabinet base

5.375"

Apron

₩

I

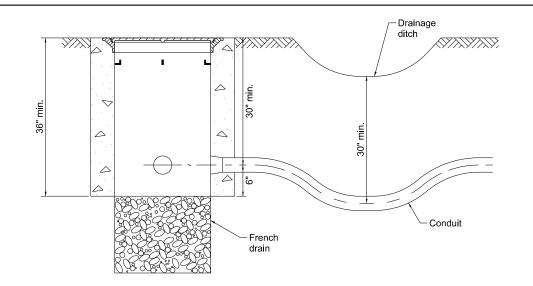


SUPER P AND SUPER R

TRAFFIC SIGNAL CABINETS

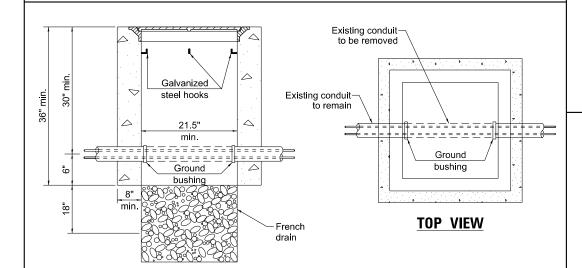
CABLE SLACK LENGTH

USER NAME = lovan plascencia	DESIGNED -	IP	REVISED -			DISTRICT 1	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE
	DRAWN -	IP	REVISED -	STATE OF ILLINOIS		TANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR		соок	35	14
	CHECKED -	NB/KK	REVISED -	DEPARTMENT OF TRANSPORTATION	3	TANDARD TRAFFIC SIGNAL DESIGN DETAILS	'	TS-01	CONTRACT	T NO. 12X	
PLOT DATE =	DATE -	10/15/2025	REVISED -		SCALE: NTS	SHEET 5 OF 7 SHEETS STA. TO STA.			PROJECT		



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

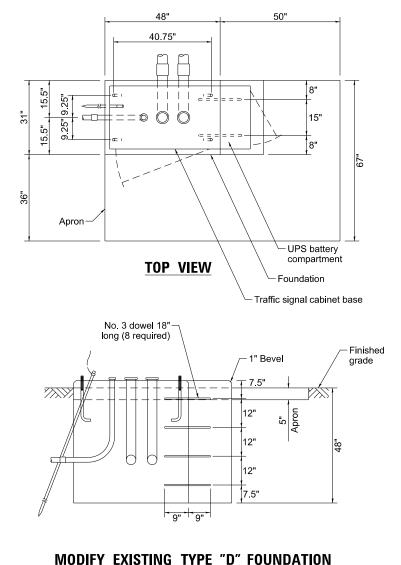
HANDHOLE WITH MINIMUM CONDUIT DEPTH



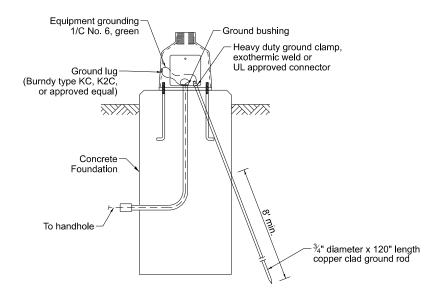
NOTES:

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

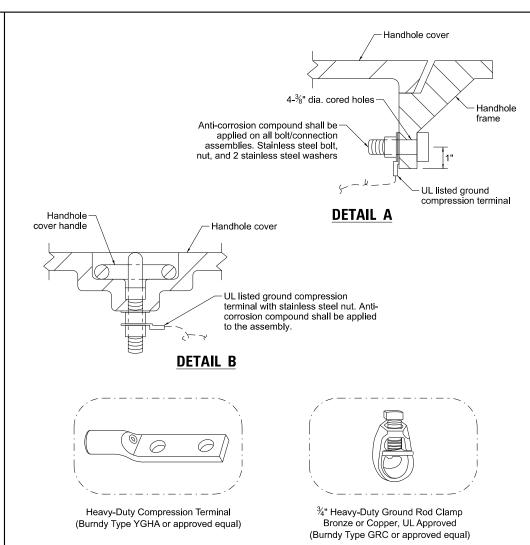
HANDHOLE TO INTERCEPT EXISTING CONDUIT



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

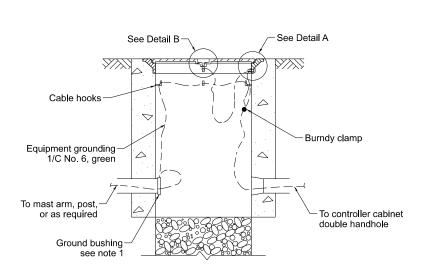


MAST ARM / POST GROUNDING DETAIL



NOTES:

- 1. CONDUIT THAT HAS BEEN DRILLED INTO AN EXISTING HANDHOLE WILL REQUIRE A GROUND BUSHING FOR THE CONDUIT TO BE PROPERLY GROUNDED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES.
 6.5' OF SLACK SHALL BE PROVIDED IN SINGLE AND DOUBLE HANDHOLES.
 5' OF SLACK SHALL BE PROVIDED BETWEEN THE FRAME AND COVER.



HANDHOLE GROUNDING DETAIL

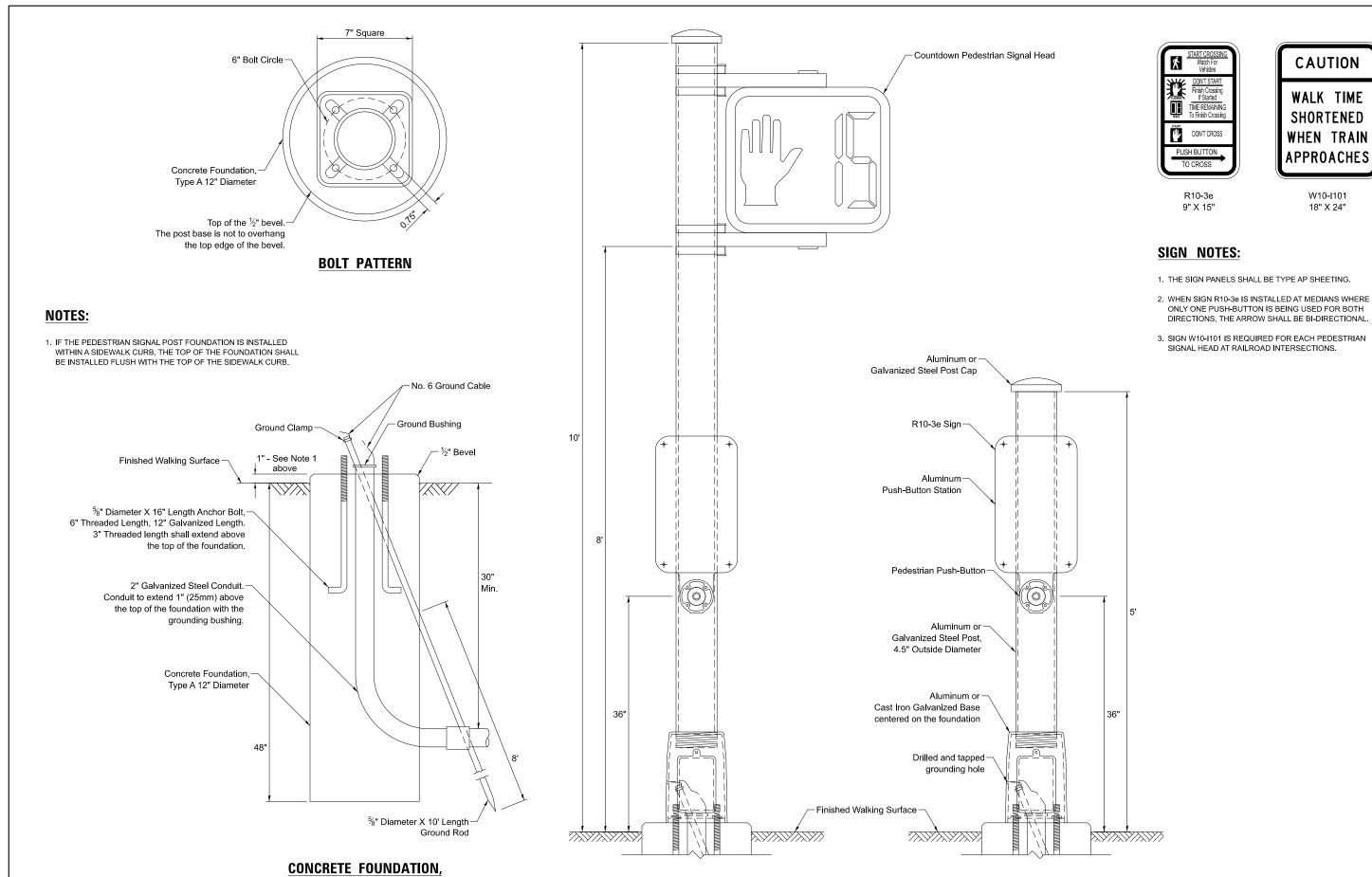
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DRAWN - IP	REVISED -	
CHECKED - NB/KK	REVISED -	
PLOT DATE =	DATE - 10/15/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 6 OF 7 SHEETS STA. TO STA.

SCALE: NTS



TYPE A 12-INCH DIAMETER

PEDESTRIAN SIGNAL POST, 10 FT.

PEDESTRIAN SIGNAL POST, 5 FT.

CAUTION

WALK TIME SHORTENED

WHEN TRAIN

APPROACHES

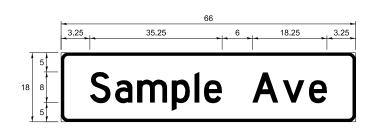
W10-I101

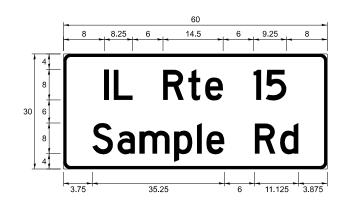
18" X 24"

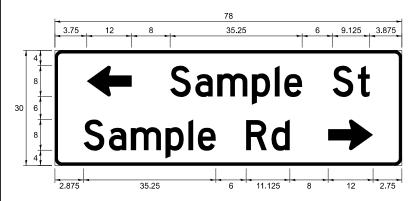
USER NAME = lovan.plascencia	DESIGNED - IP	REVISED -				DIS	STRICT	1		RTE	SECTION	COUNTY	SHEETS	NO.
	DRAWN - IP	REVISED -	STATE OF ILLINOIS		STANDARD T			. DESIGN DETAI	10	VAR		соок	35	16
	CHECKED - NB/KK	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD I	IKAFFIC	SIGNAL	. DESIGN DETAI	LJ		TS-01		T NO. 12	X15
PLOT DATE =	DATE - 10/15/2025	REVISED -		SCALE: NTS	SHEET 7	OF 7	SHEETS	STA.	TO STA.		ILLINOIS FE	ED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE







DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
C OR D	-	1 OR 2	ZZ	

COMMON STREET NAME ABBREVIATIONS

NAME	ABBREVIATION	LENGTH (INCH)		
INAIVIL	ADDITEVIATION	SERIES "C"	SERIES "D"	
Avenue	Ave	15	18.25	
Boulevard	Blvd	17.125	20	
Circle	Cir	11.125	13	
Court	Ct	8.25	9.625	
Drive	Dr	8.625	10.125	
Highway	Hwy	18.375	22	
Illinois	IL	7	8.25	
Lane	Ln	9.125	10.75	
Parkway	Pkwy	23.375	27.375	
Place	PI	7.125	7.75	
Road	Rd	9.625	11.125	
Route	Rte	12.625	14.5	
Street	St	8	9.125	
Terrace	Ter	12.625	14.625	
Trail	Tr	7.75	9.125	
United States	US	10.375	12.25	

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED. THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ONSTANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. THE SPACING BETWEEN THE LEFT OR RIGHT ARROW AND THE ADJACENT WORD SHOULD BE 8", BUT MAY BE REDUCED TO 6" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. THE PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE THE SERIES "D" ALPHABET ON A ONE-LINE SIGN THAT IS 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH, IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A ONE-LINE 8'-0" SIGN, A 30" HEIGHT TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION (I.E. STREET, AVENUE, ETC.) SHALL BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENTS AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS: PARTS LISTING:

- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA

-SIGN CHANNEL PART #HPN053 (MED. CHANNEL)

-SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3

- WESTERN REMAC, INC. WOODRIDGE, IL

SELF TAPPING WITH NEOPRENE WASHER

-BRACKETS

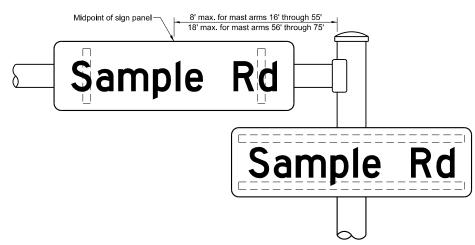
PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

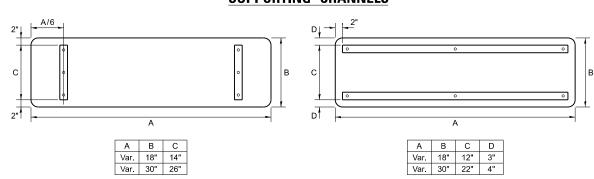
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATIONS

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

MEASUREMENTS BASED ON 8" UPPER CASE LETTER HEIGHT

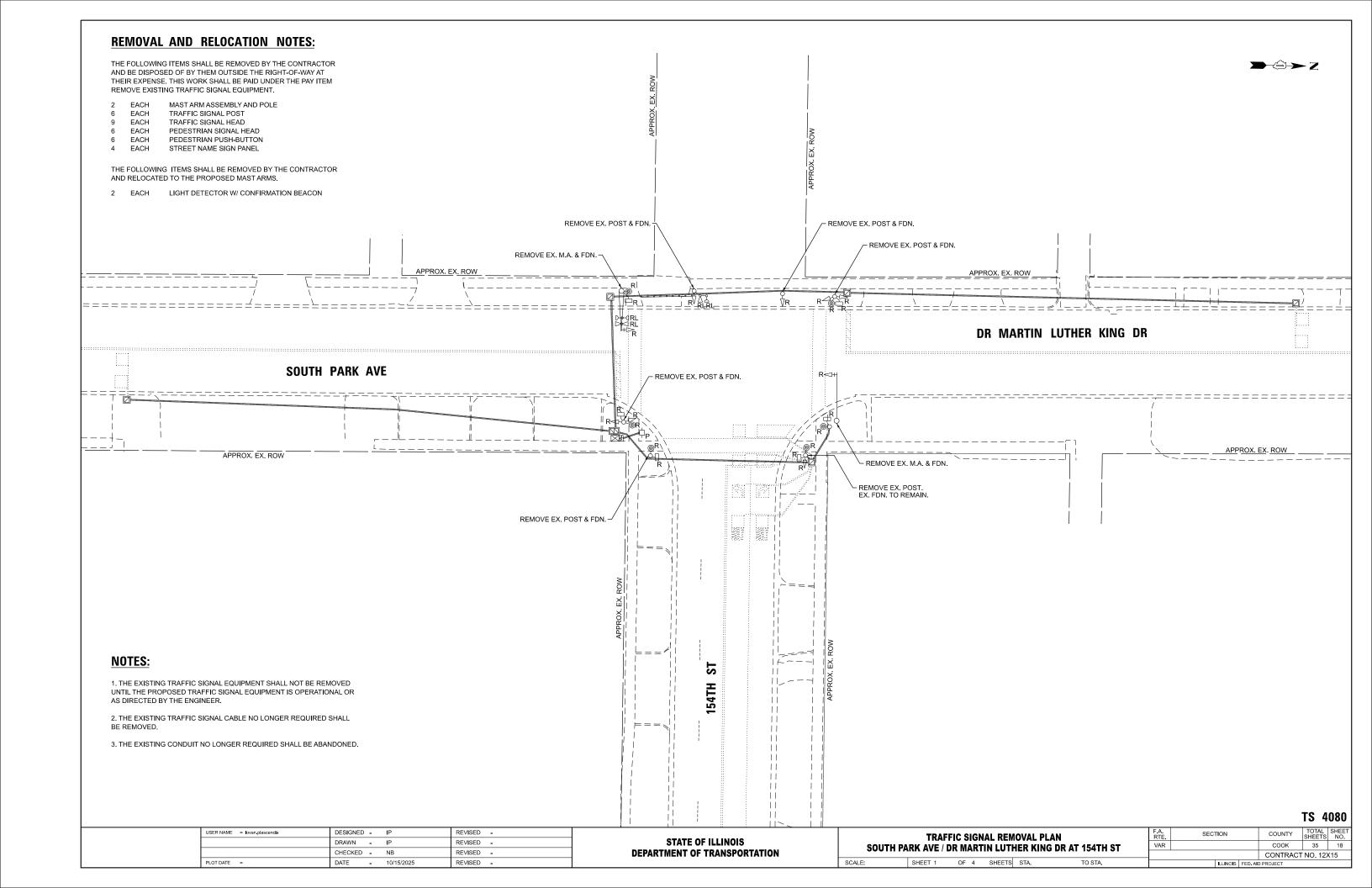
	FHWA SE	RIES "C"		FHWA SERIES "D"				
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	
Α	0.240	5.122	0.240	Α	0.240	6.804	0.240	
В	0.880	4.482	0.480	В	0.960	5.446	0.400	
С	0.720	4.482	0.720	С	0.800	5.446	0.800	
D	0.880	4.482	0.720	D	0.960	5.446	0.800	
Е	0.880	4.082	0.480	E	0.960	4.962	0.400	
F	0.880	4.082	0.240	F	0.960	4.962	0.240	
G	0.720	4.482	0.720	G	0.800	5.446	0.800	
Н	0.880	4.482	0.880	Н	0.960	5.446	0.960	
1	0.880	1.120	0.880	I	0.960	1.280	0.960	
J	0.240	4.082	0.880	J	0.240	5.122	0.960	
K	0.880	4.482	0.480	K	0.960	5.604	0.400	
L	0.880	4.082	0.240	L	0.960	4.962	0.240	
М	0.880	5.284	0.880	М	0.960	6.244	0.960	
N	0.880	4.482	0.880	N	0.960	5.446	0.960	
0	0.720	4.722	0.720	0	0.800	5.684	0.800	
Р	0.880	4.482	0.720	Р	0.960	5.446	0.240	
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800	
R	0.880	4.482	0.480	R	0.960	5.446	0.400	
S	0.480	4.482	0.480	S	0.400	5.446	0.400	
T	0.240	4.082	0.240	Т	0.240	4.962	0.240	
U	0.880	4.482	0.880	U	0.960	5.446	0.960	
V	0.240	4.962	0.240	V	0.240	6.084	0.240	
W	0.240	6.084	0.240	W	0.240	7.124	0.240	
Х	0.240	4.722	0.240	X	0.400	5.446	0.400	
Υ	0.240	5.122	0.240	Y	0.240	6.884	0.240	
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400	
а	0.320	3.842	0.640	а	0.400	4.562	0.720	
b	0.720	4.082	0.480	b	0.800	4.802	0.480	
С	0.480	4.002	0.240	С	0.480	4.722	0.240	
d	0.480	4.082	0.720	d	0.480	4.802	0.800	
е	0.480	4.082	0.320	е	0.480	4.722	0.320	
f	0.320	2.480	0.160	f	0.320	2.882	0.160	
g	0.480	4.082	0.720	g	0.480	4.802	0.800	
h	0.720	4.082	0.640	h	0.800	4.722	0.720	
i	0.720	1.120	0.720	i	0.800	1.280	0.800	
j	0.000	2.320	0.720	j	0.000	2.642	0.800	
k	0.720	4.322	0.160	k	0.800	5.122	0.160	
1	0.720	1.120	0.720	I	0.800	1.280	0.800	
m	0.720	6.724	0.640	m	0.800	7.926	0.720	
n	0.720	4.082	0.640	n	0.800	4.722	0.720	
0	0.480	4.082	0.480	0	0.480	4.882	0.480	
р	0.720	4.082	0.480	р	0.800	4.802	0.480	
q	0.480	4.082	0.720	q	0.480	4.802	0.800	
r	0.720	2.642	0.160	r	0.800	3.042	0.160	
s	0.320	3.362	0.240	s	0.320	3.762	0.240	
t	0.080	2.882	0.080	t	0.080	3.202	0.080	
u	0.640	4.082	0.720	u	0.720	4.722	0.800	
v	0.160	4.722	0.160	v	0.160	5.684	0.160	
w	0.160	7.524	0.160	w	0.160	9.046	0.160	
X	0.000	5.202	0.000	x	0.000	6.244	0.000	
у	0.160	4.962	0.160	у	0.160	6.004	0.160	
z	0.240	3.362	0.240	z	0.240	4.002	0.240	
1	0.720	1.680	0.880	1	0.800	2.000	0.960	
2	0.480	4.482	0.480	2	0.800	5.446	0.800	
3	0.480	4.482	0.480	3	1.440	5.446	0.800	
4	0.240	4.962	0.720	4	0.160	6.004	0.960	
5	0.480	4.482	0.480	5	0.800	5.446	0.800	
6	0.720	4.482	0.720	6	0.800	5.446	0.800	
7	0.240	4.482	0.720	7	0.560	5.446	0.560	
8	0.480	4.482	0.480	8	0.800	5.446	0.800	
9	0.480	4.482	0.480	9	0.800	5.446	0.800	
0	0.720	4.722	0.720	0	0.800	5.684	0.800	
	0.240	2.802	0.240	-	0.240	2.802	0.240	
-							,	

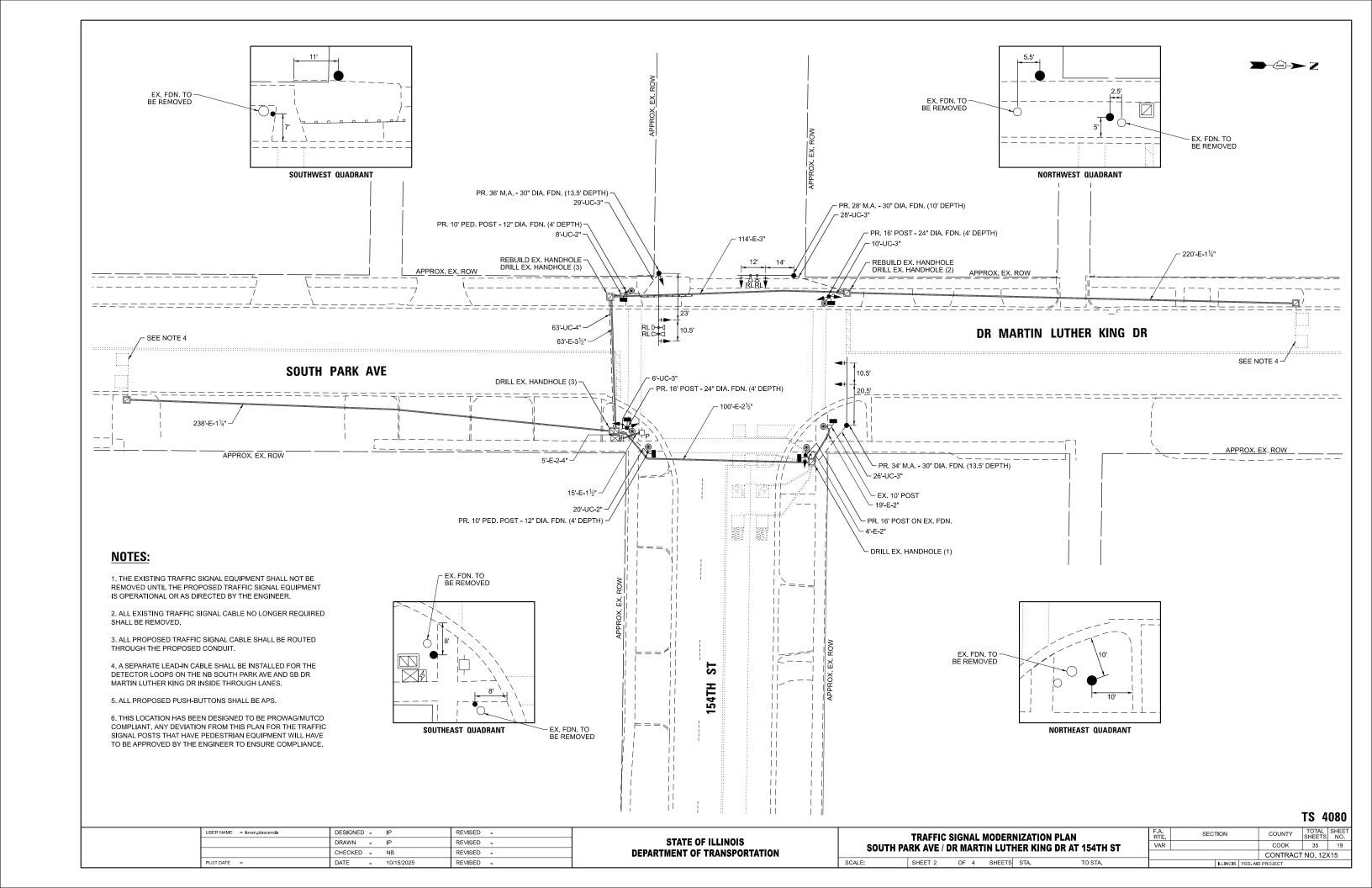
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	DRAWN -	IP	REVISED -
	CHECKED -	NB	REVISED -
PLOT DATE =	DATE -	10/15/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS

		DIS	STRICT 1			F.A. RTE	SECTION	ON	COUNTY	TOTAL SHEETS	SHEE NO.
٨	/ΔST ΔRM	MOUNT	ED STRE	ΕΤ ΝΔ	ME SIGNS	VAR			COOK	35	17
	IIAO I AIUII				010110		TS-02		CONTRACT	NO. 12	K 15
-	SHEET 1	OF 1	SHEETS	QTΩ	TO 9TA			LINOIC FED AL	DDO IECT		





EXISTING CONTROLLER PHASE DIAGRAM

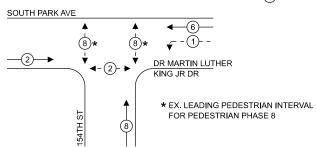
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LEGEND:

◆ PROTECTED PHASE

← - ** - PROTECTED/PERMISSIVE PHASE

√- (*)- ► PEDESTRIAN PHASE



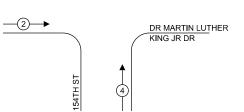
EXISTING EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM



→⊕→Z

SOUTH PARK AVE

4-3-



NOTES:

1. ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.

TRAFFIC			
ELECTRIC SERVIC	E REQU	IREMEN	ITS
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAG
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	6	15	90
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
PTZ CAMERA	-	75	-
	TOTAL UP	S SIZING	401
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180

200

15

120

240

TOTAL SERVICE WIRE SIZING 1,006

PLOT DATE =

USER NAME = lovan.plascencla

200

DRAWN - IP

CHECKED - NB

DATE - 10/15/2025

CABINET HEATER

LED STREET NAME SIGN

FLASHER

LUMINAIRE

ENERGY COSTS TO:

VILLAGE OF SOUTH HOLLAND

16226 WAUSAU AVE
SOUTH HOLLAND, IL 60473

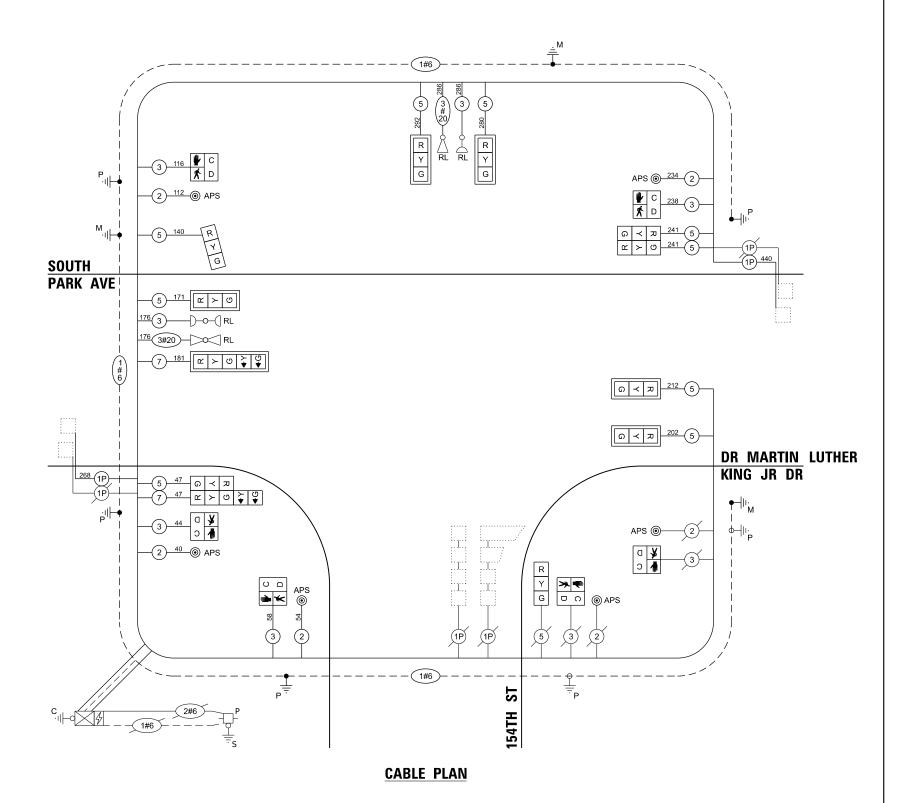
ENERGY SUPPLY: CONTACT: ___
PHONE: ___
COMPANY: COMED

ACCOUNT NUMBER: ___
METER NUMBER: ___

REVISED -

REVISED -

REVISED -



TS 4080

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

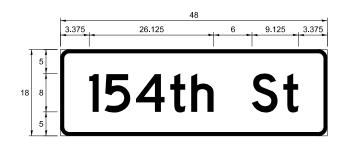
CABLE PLAN, CONTROLLER PHASE DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM SOUTH PARK AVE / DR MARTIN LUTHER KING DR AT 154TH ST

SHEET 3 OF 4 SHEET'S STA. TO STA.

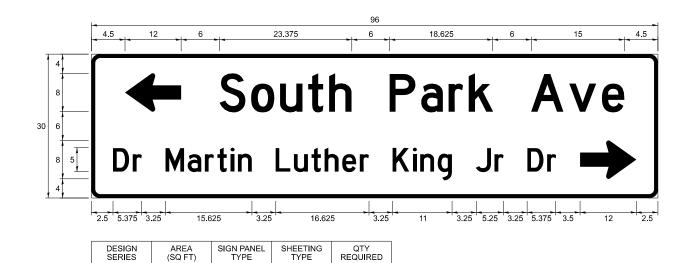
| LLINOIS | FED. AID PROJECT

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	6	1	ZZ	2



NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT STANDARD TS-02 - MAST ARM MOUNTED STREET NAME SIGNS.

20

ZZ

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	20
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	28
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	99
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	63
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	440
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	918
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,826
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	228
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	708
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	260
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
NDUCTIVE LOOP DETECTOR	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2.080
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	462
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% COST TO THE VILLAGE OF SOUTH HOLLAND

 TS 4080

 F.A. RTE.
 SECTION
 COUNTY SHEETS NO.
 TOTAL SHEETS NO.

 VAR
 COOK
 35
 21

 USER NAME
 = Iovan,plascenda
 DESIGNED - IP
 REVISED

 DRAWN - IP
 REVISED

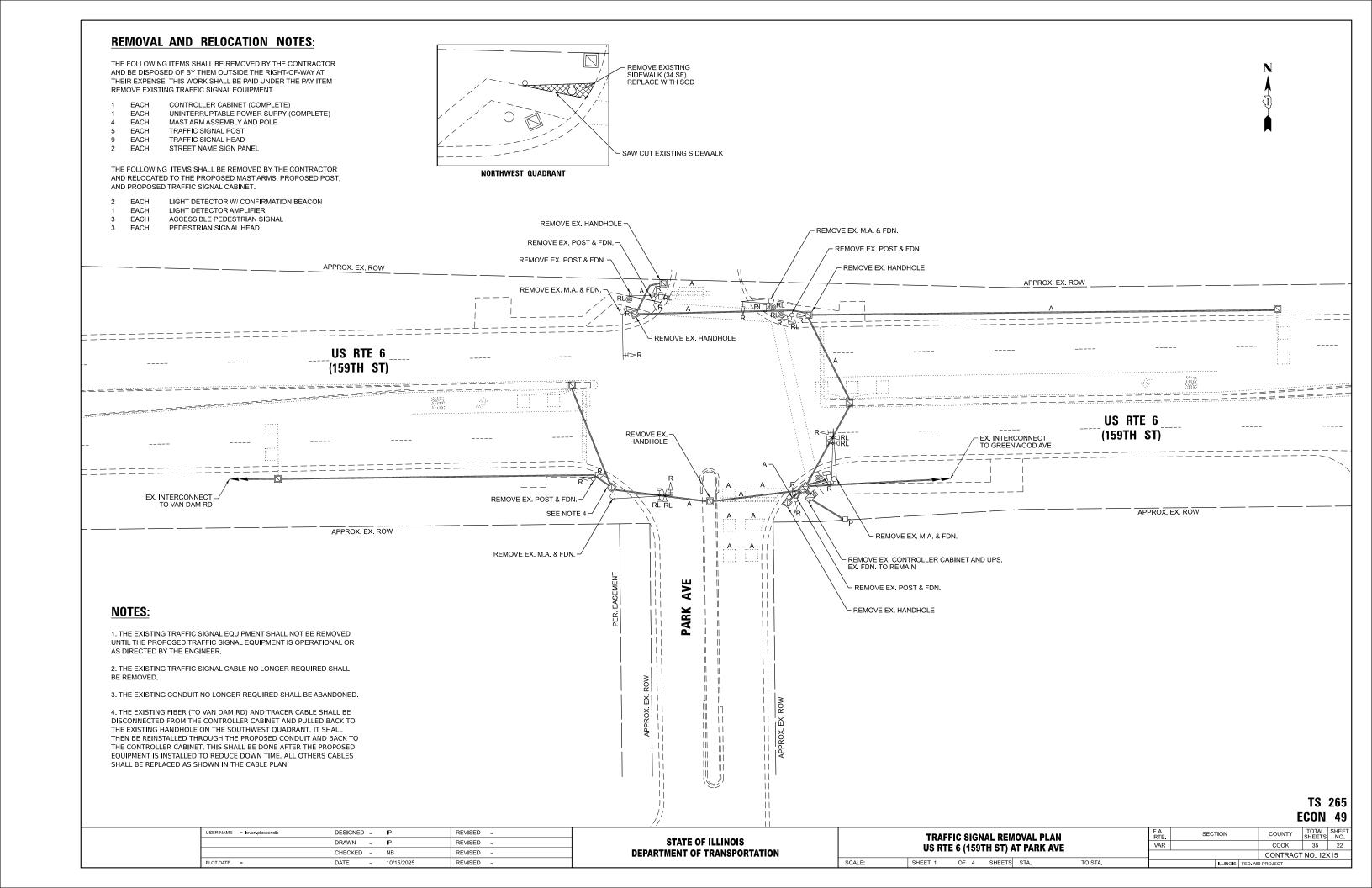
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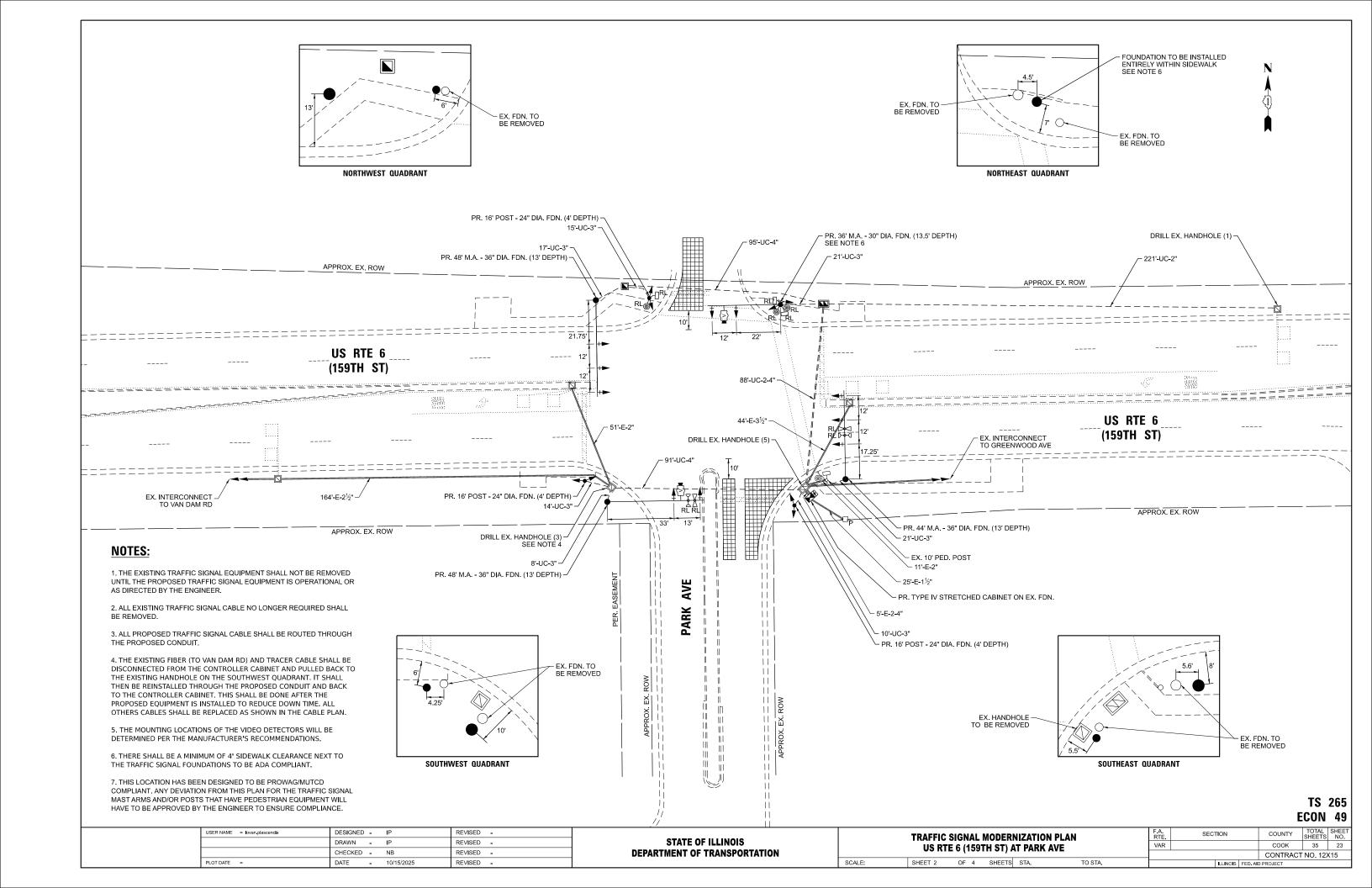
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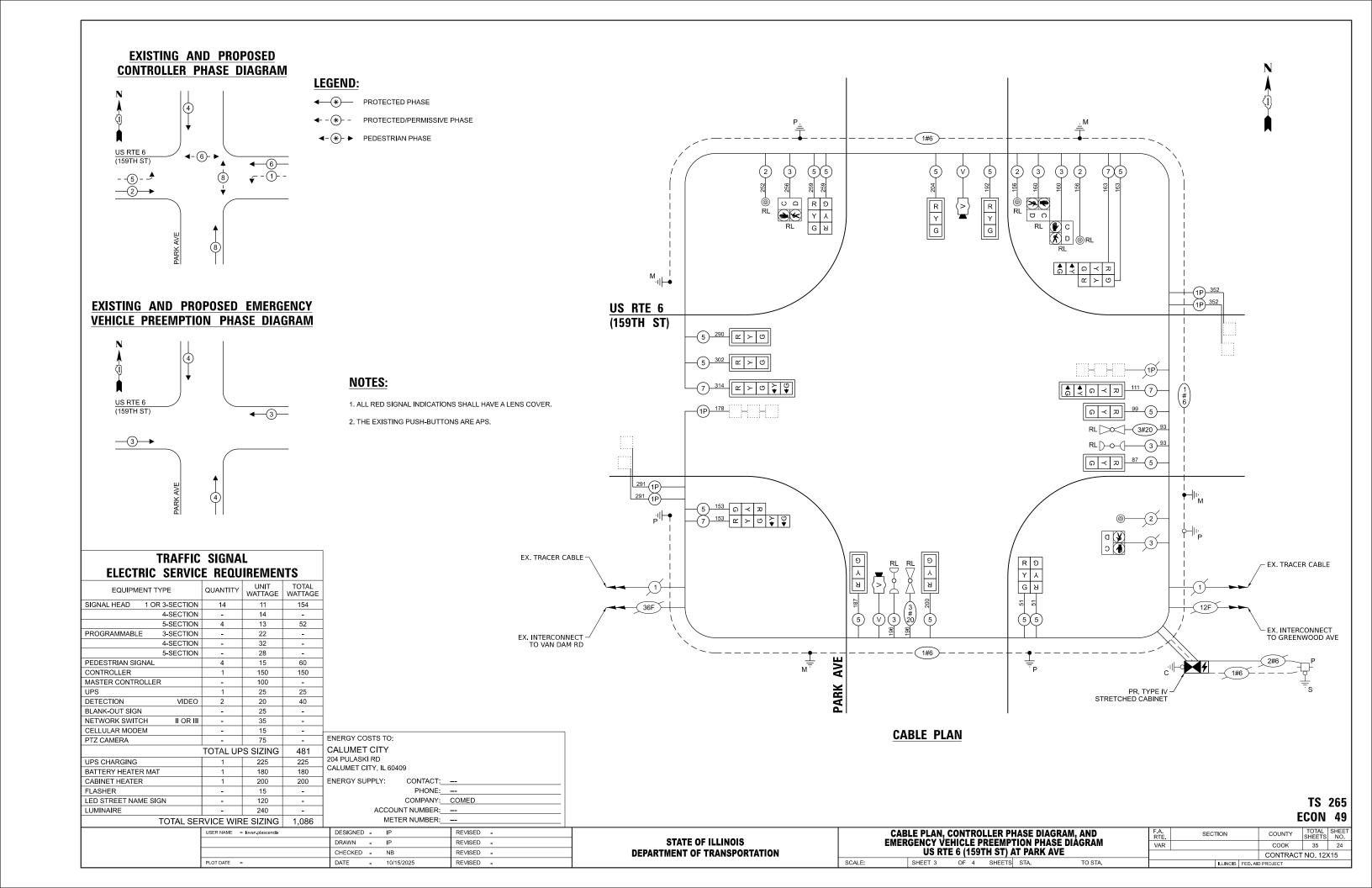
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
SOUTH PARK AVE / DR MARTIN LUTHER KING DR AT 154TH ST

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

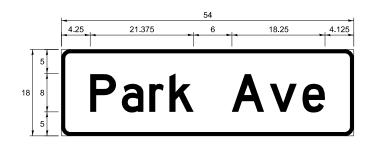




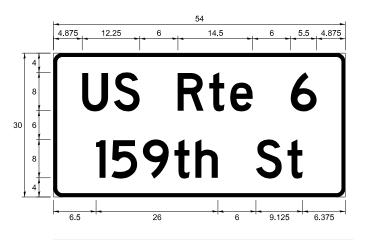


SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	6.75	1	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	11.25	2	ZZ	

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT STANDARD TS-02 - MAST ARM MOUNTED STREET NAME SIGNS.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SUPPLEMENTAL WATERING	UNIT	1
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4
SODDING, SALT TOLERANT	SQ YD	4
SIDEWALK REMOVAL	SQ FT	34
SIGN PANEL - TYPE 1	SQ FT	13.5
SIGN PANEL - TYPE 2	SQ FT	22.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	221
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	106
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	362
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	564
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20	FOOT	865
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,497
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	741
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,464
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	545
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE & 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	39
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	3
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,885
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	240
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	289
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	18
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% COST TO CALUMET CITY

TS 265 ECON 49

USER NAME = lovan.plascencla	DESIGNED - IP	REVISED -			MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES	F.A. RTF	SECTION COUNTY	TOTAL	SHEET	
	DRAWN - IP	REVISED -	STATE OF ILLINOIS	STATE OF ILLINOIS		VAR	соок	35	25	
	CHECKED - NB	REVISED -	DEPARTMENT OF TRANSPORTATION	US RTE 6 (159TH ST) AT PARK AVE			CONTRACT NO. 12X15			
PLOT DATE =	DATE - 10/15/2025	REVISED -		SCALE:	SHEET 4 OF 4 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

REMOVAL AND RELOCATION NOTES: THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THIS WORK SHALL BE PAID UNDER THE PAY ITEM REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT. CONTROLLER CABINET (COMPLETE) UNINTERRUPTABLE POWER SUPPY (COMPLETE) EACH EACH EACH MAST ARM ASSEMBLY AND POLE EACH TRAFFIC SIGNAL POST EACH TRAFFIC SIGNAL HEAD EACH STREET NAME SIGN PANEL THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED MAST ARMS AND PROPOSED TRAFFIC SIGNAL CABINET. EACH LIGHT DETECTOR W/ CONFIRMATION BEACON LIGHT DETECTOR AMPLIFIER - REMOVE EX. POST & FDN. REMOVE EX. POST & FDN. REMOVE EX. HANDHOLE REMOVE EX. POST & FDN. REMOVE EX. M.A. & FDN. ¬ APPROX. EX. ROW APPROX. EX. ROW US RTE 6 (159TH ST) US RTE 6 ____ (159TH ST) REMOVE EX. EX. INTERCONNECT TO M.A. & FDN. IL RTE 83 (TORRENCE AVE) APPROX. EX. ROW APPROX. EX. ROW - REMOVE EX. CONTROLLER CABINET AND UPS. EX. FDN. TO REMAIN EX. INTERCONNECT — TO PAXTON AVE SEE NOTE 4 -REMOVE EX. POST EX. FDN. TO REMAIN REMOVE EX. HANDHOLE - REMOVE EX. HANDHOLE NOTES: 1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS OPERATIONAL OR AS DIRECTED BY THE ENGINEER. 2. THE EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED. 3. THE EXISTING CONDUIT NO LONGER REQUIRED SHALL BE ABANDONED. RD 4. THE EXISTING FIBER (TO PAXTON AVE) AND TRACER CABLE SHALL BE DISCONNECTED FROM THE CONTROLLER CABINET AND PULLED BACK TO RING THE EXISTING HANDHOLE ON THE SOUTHWEST ISLAND. IT SHALL THEN BE REINSTALLED THROUGH THE PROPOSED CONDUIT AND BACK TO THE CONTROLLER CABINET, THIS SHALL BE DONE AFTER THE PROPOSED EQUIPMENT IS INSTALLED TO REDUCE DOWN TIME. ALL OTHERS CABLES SHALL BE REPLACED AS SHOWN IN THE CABLE PLAN. TS 280 ECON 49 TRAFF STATE OF ILLINOIS **US RTE**

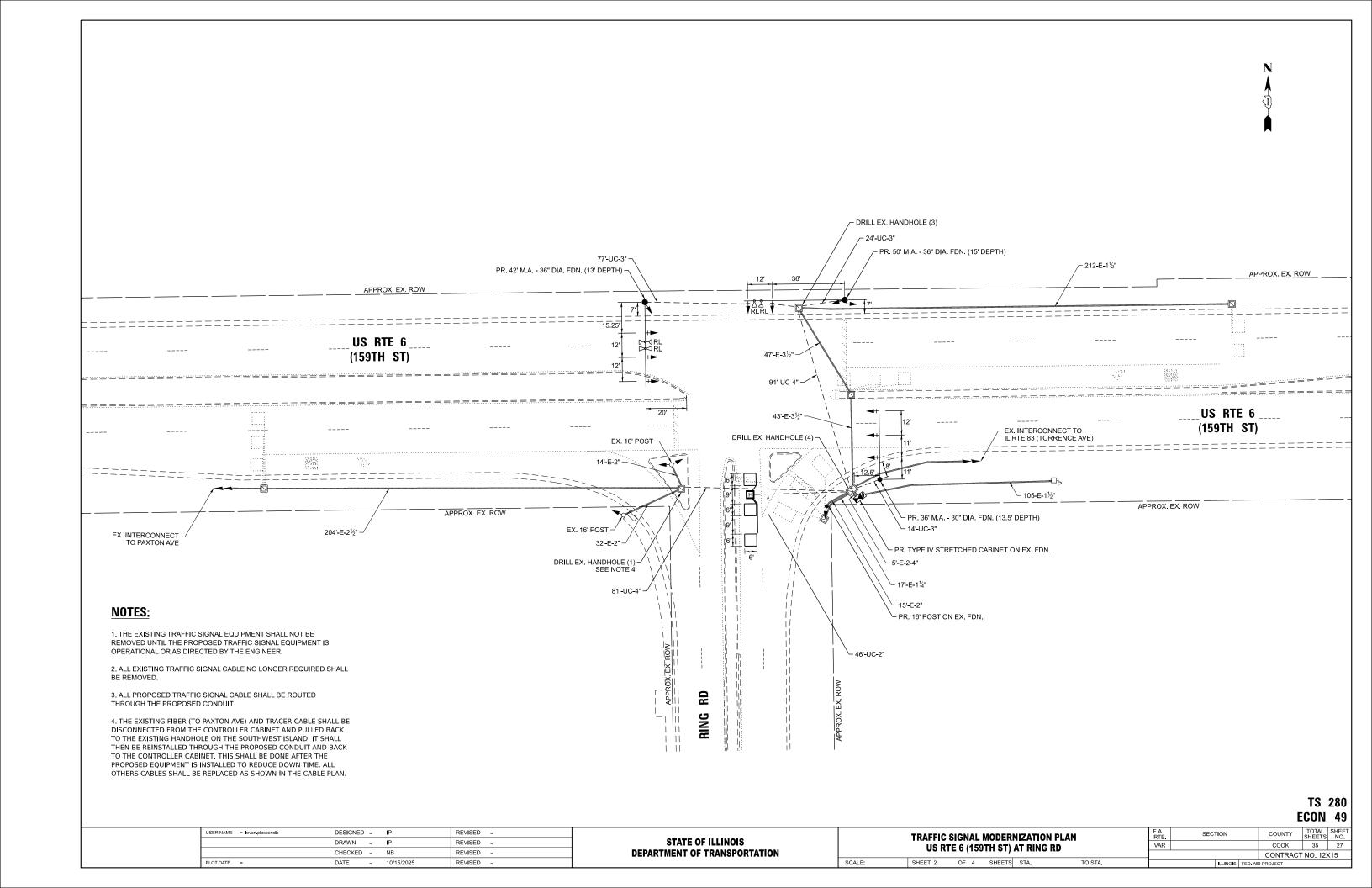
FIC SIGNAL REMOVAL PLAN	F.A. RTE.	SEC.	TION		COUNTY	TOTAL SHEETS	SHEE	
E 6 (159TH ST) AT RING RD	VAR				соок	35	26	
2 0 (100111 01) AT RING RD						CONTRAC	ΓNO. 12	X15
OF 4 SHEETS STA	TO STA			ILL MOTE	EED AN	DROJECT		

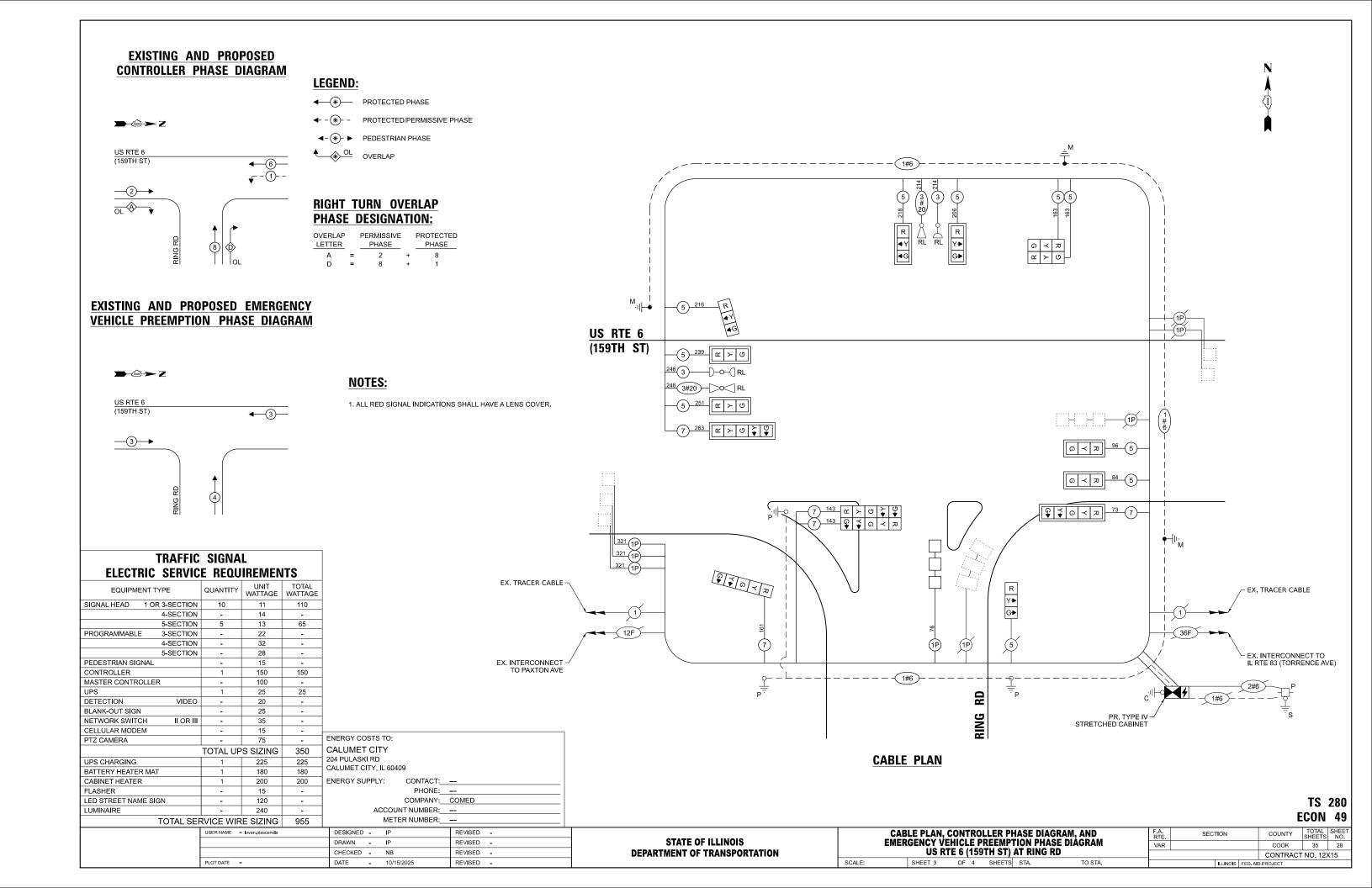
O DET CONTINUE TO CONTINUE	DEGIGITED -		THE VIOLES -
	DRAWN -	IP	REVISED -
	CHECKED -	NB	REVISED -
PLOT DATE =	DATE -	10/15/2025	REVISED -

DEPARTMENT OF TRANSPORTATION

SCALE:

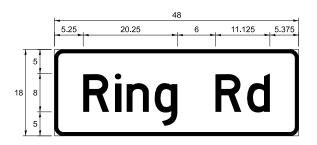
SHEET 1



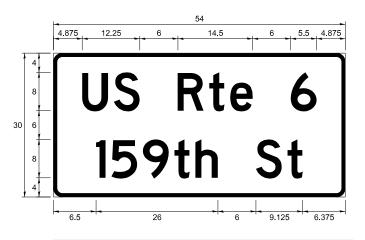


SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN	AREA	SIGN PANEL	SHEETING	QTY
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	6	1	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY		
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED		
D	11.25	2	ZZ			

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT STANDARD TS-02 - MAST ARM MOUNTED STREET NAME SIGNS.

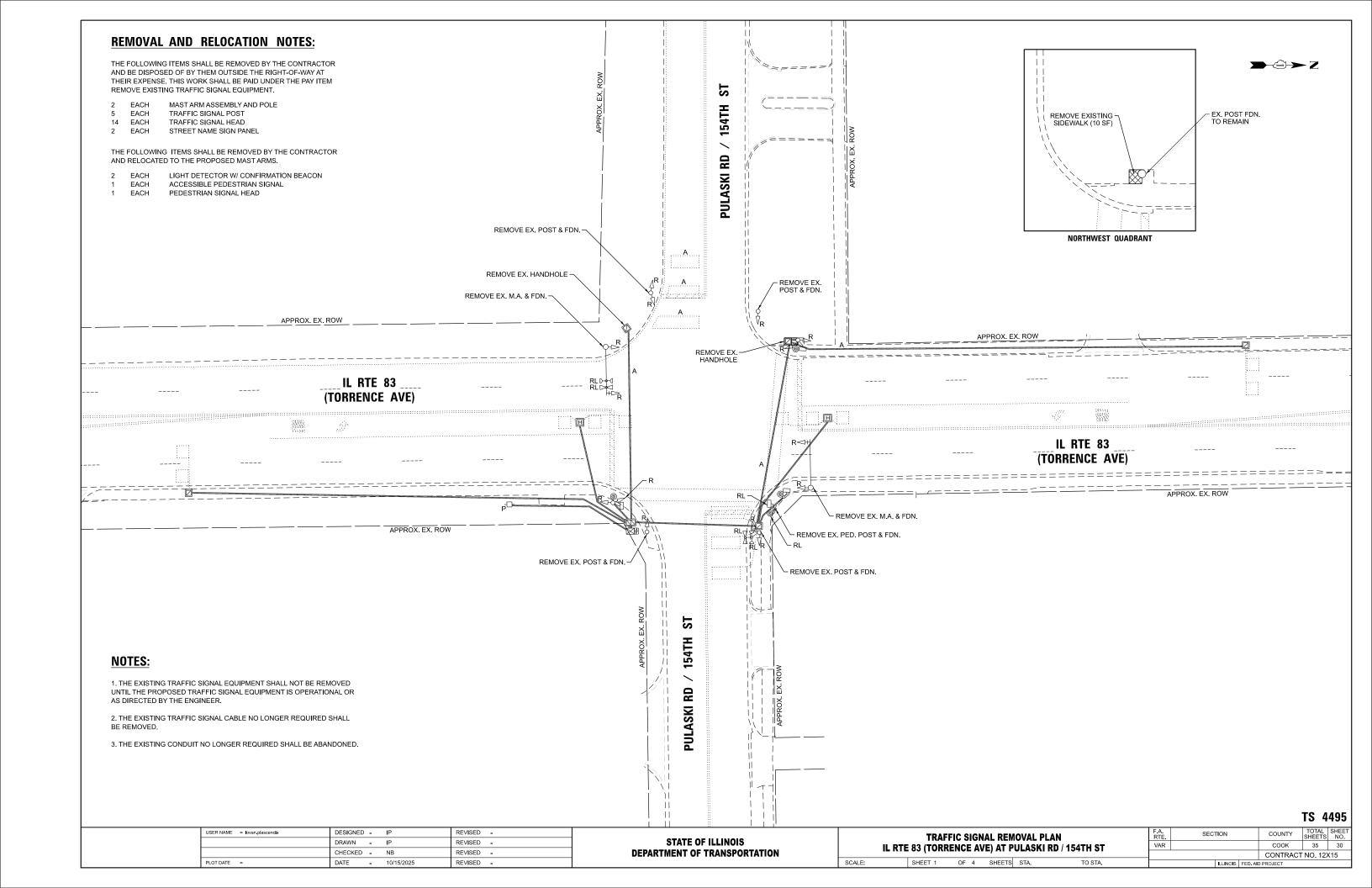
SCHEDULE OF QUANTITIES

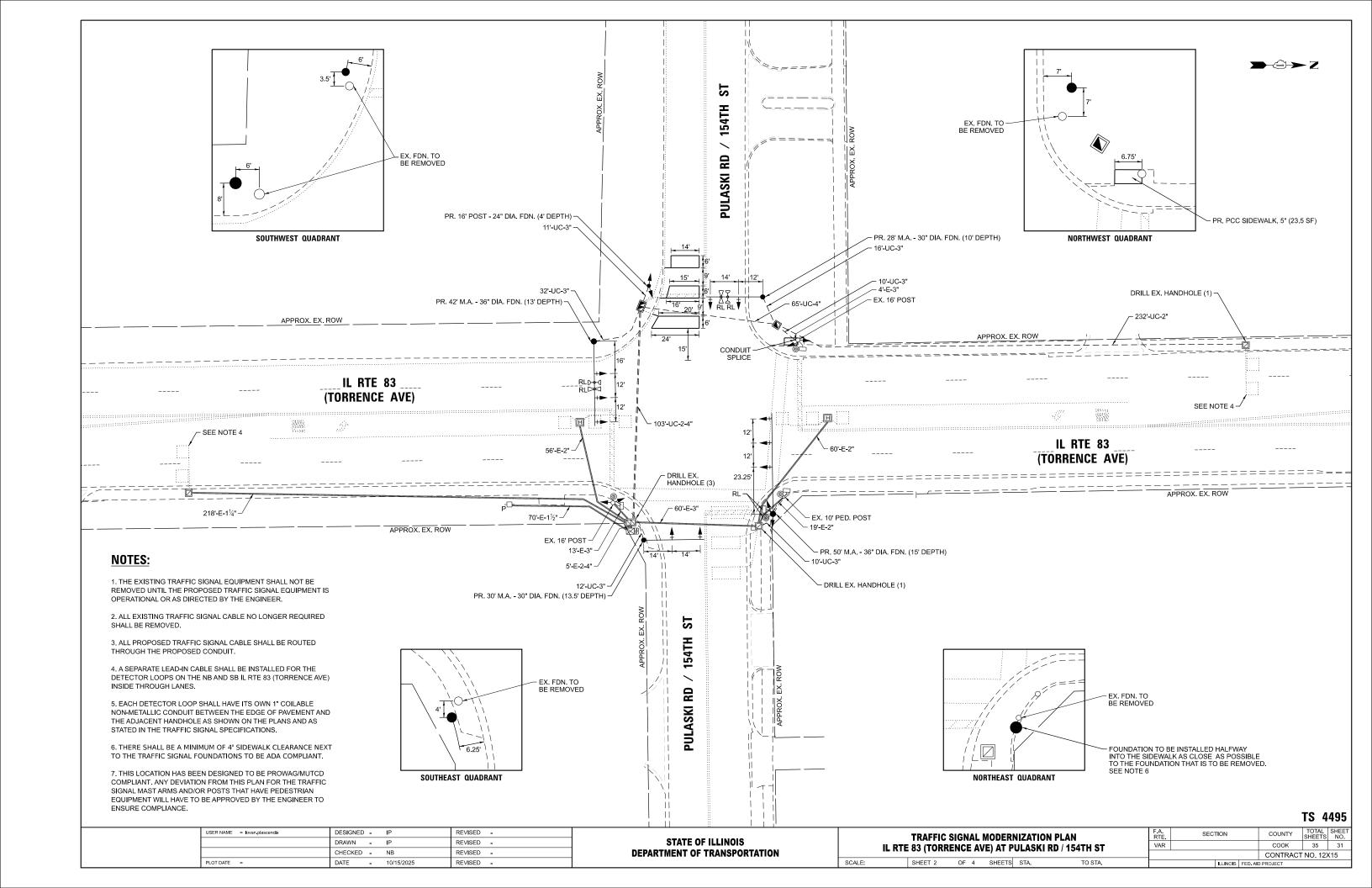
ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	11.25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	46
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	115
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	172
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	460
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,636
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	783
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1.039
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C		330
	FOOT	
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	96
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,320
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	230
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO, 20 3/C	FOOT	460
TEMPORARY INFORMATION SIGNING	SQFT	51.4
FULL-ACTUATED CONTROLLER AND TYPE IV STRETCHED CABINET (SPECIAL)	EACH	1
,		
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	15
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% COST TO CALUMET CITY

TS 280 ECON 49

USER NAME = lovan.plascencia	DESIGNED - IP	REVISED -	MAST ARM MOUNTED STREET NAME SIGNS FAR SEC				COUNTY TOTAL SHEET
	DRAWN - IP	REVISED -	STATE OF ILLINOIS		AND SCHEDULE OF QUANTITIES	VAR	COOK 35 29
	CHECKED - NB	REVISED -	DEPARTMENT OF TRANSPORTATION	US RTE 6 (159TH ST) AT RING RD			CONTRACT NO. 12X15
PLOT DATE =	DATE - 10/15/2025	REVISED -		SCALE:	SHEET 4 OF 4 SHEETS STA. TO STA.	ILLINOIS FE	D. AID PROJECT





EXISTING CONTROLLER PHASE DIAGRAM **LEGEND**: **★** PROTECTED PHASE ← - (*)- - PROTECTED/PERMISSIVE PHASE ◆- (*)- PEDESTRIAN PHASE IL RTE 83 (TORRENCE AVE) --5--**>** --2--**>** PULASKI RD 154TH ST **EXISTING EMERGENCY VEHICLE** PREEMPTION PHASE DIAGRAM **→** 🗢 Z IL RTE 83 (TORRENCE AVE) **4** (3)— **─**3**→** TRAFFIC SIGNAL **ELECTRIC SERVICE REQUIREMENTS** QUANTITY UNIT TOTAL WATTAGE WATTAGE EQUIPMENT TYPE SIGNAL HEAD 1 OR 3-SECTION 14 11 154

NOTES:

- 1. ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.
- 2. THE EXISTING PUSH-BUTTONS ARE APS.

4-	SECTION	-	14	-	
5-	SECTION	4	13	52	
PROGRAMMABLE 3-	SECTION	-	22	-	
4-	SECTION	-	32	-	
5-	SECTION	-	28	•	
PEDESTRIAN SIGNAL		4	15	60	
CONTROLLER		1	150	150	
MASTER CONTROLLER		-	100	-	
UPS		1	25	25	
DETECTION	VIDEO	-	20	ı	
BLANK-OUT SIGN		-	25	-	
NETWORK SWITCH	II OR III	-	35	-	
CELLULAR MODEM		-	15	1	
PTZ CAMERA		-	75	-	ENERGY COSTS TO:
		TOTAL UP	S SIZING	441	CALUMET CITY
UPS CHARGING		1	225	225	204 PULASKI RD
BATTERY HEATER MAT		1	180	180	CALUMET CITY, IL 60409
CABINET HEATER		1	200	200	ENERGY SUPPLY: CONTACT:
FLASHER		-	15	-	PHONE:
LED STREET NAME SIGN		-	120	-	COMPANY: COMED
LUMINAIRE		-	240	-	ACCOUNT NUMBER:
TC	TAL SEE	VICE WIR	F SIZING	1 046	METER NUMBER:

USER NAME = lovan plascencia

DESIGNED - IP

DRAWN - IP

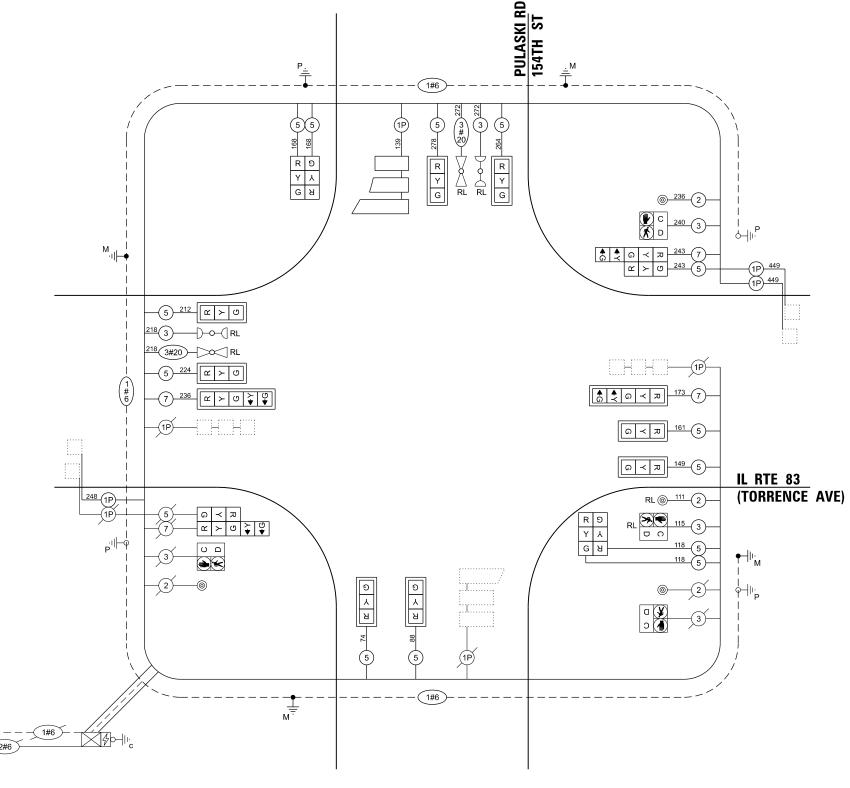
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CABLE PLAN

TS 4495

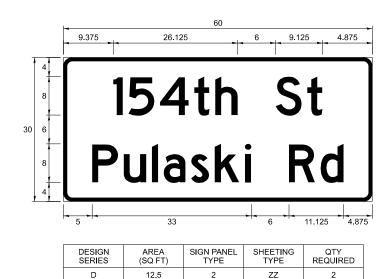
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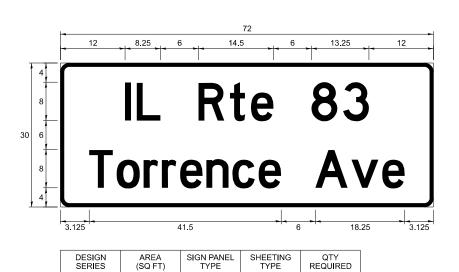
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, CONTROLLER PHASE DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION PHASE DIAGRAM IL RTE 83 (TORRENCE AVE) AT PULASKI RD / 154TH ST SECTION VAR SHEET 3 OF 4 SHEETS STA.

COUNTY TOTAL SHEETS NO.
COOK 35 32 CONTRACT NO. 12X15

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE





NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT STANDARD TS-02 - MAST ARM MOUNTED STREET NAME SIGNS.

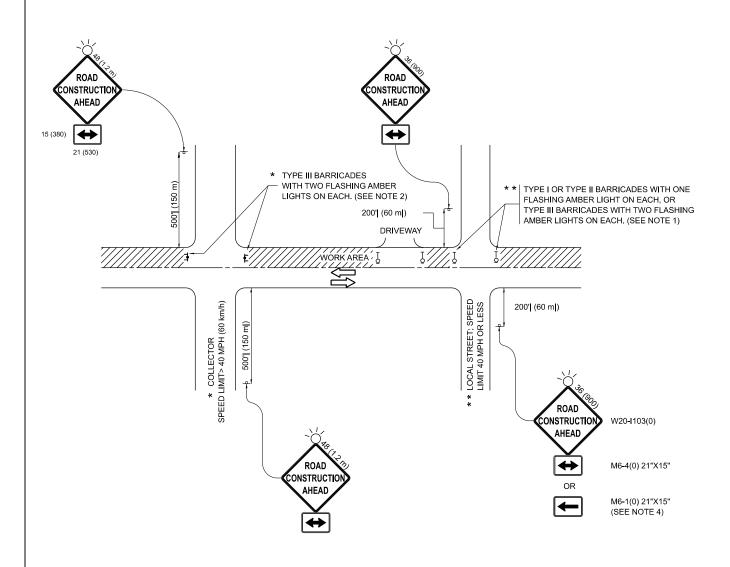
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTA QTY
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	23.5
SIDEWALK REMOVAL	SQ FT	10
SIGN PANEL - TYPE 2	SQ FT	55
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	232
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	91
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	271
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	347
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	845
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,26
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	652
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,28
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	450
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	150
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,44
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	490
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
LED SIGNAL FACE, LENS COVER	EACH	18
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% COST TO CALUMET CITY

TS 4495

USER NAME = lovan.plascencla	DESIGNED - IP	REVISED -		MAST ARM MOUNTED STREET NAME SIGN			F.A. RTF	SECTION	COUNTY	TOTAL	SHEET			
	DRAWN - IP	REVISED -	STATE OF ILLINOIS			SCHEDU				VAR		соок	35	33
	CHECKED - NB	REVISED -	DEPARTMENT OF TRANSPORTATION		IL RTE 83 (TORRENCE AVE) AT PULASKI RD / 154TH ST			I RD / 154TH ST	CONTRACT NO. 12X15				X15	
PLOT DATE =	DATE - 10/15/2025	REVISED -		SCALE:	SHEET 4	OF 4	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h)
 AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE:

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

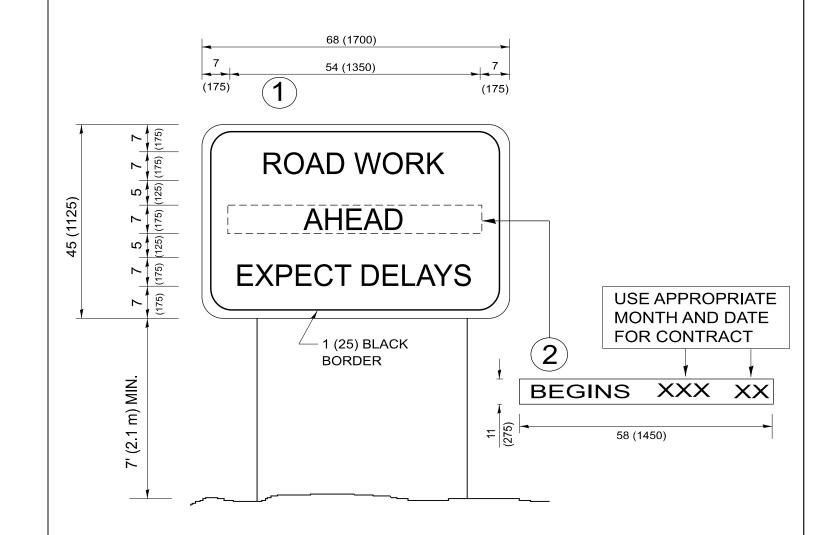
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME =	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
	CHECKED -	REVISED - A. SCHUETZE 09-15-06
PLOT DATE =	DATE - 06-89	REVISED D. SENDERAK 05-03-25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				TION FOR DRIVEWAYS
SHEET 1	OF 1	SHEETS	STA.	TO STA.

F.A. RTE	SEC ⁻	ΓΙΟΝ	COUNTY	TOTAL SHEETS	SHE			
VAR				соок	35	34		
TC-10				CONTRACT NO. 12X15				
	ILLINOIS EED AID DROJECT							



- 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.

USER NAME =	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A. RTF	SECTION	COUNTY TOTAL SHEETS	SHEET
	DRAWN -	REVISED - R MIRS 12-11-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		VAR		COOK 35	35
	CHECKED -	REVISED - T. RAMMACHER 02-02-99		INFORMATION SIGN		TC-22	CONTRACT NO. 12X	K15
PLOT DATE =	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. 4	AID PROJECT	