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FOR INDEX OF SHEETS, SEE SHEET NO. 2

0 100' 200' 300' — 1" = 100' 100' 20' 30' — 1" = 10' 10' 100' 1" = 50' 100' 1" = 40' 100' 1" = 30' 100' 1" = 20

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: IOVAN PLASCENCIA (847) 705–4504 PROJECT MANAGER: NICHOLAS BUTLER (847) 705–4420

CONTRACT NO. 62W62

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN DISTRICT 1
SECTION: 2023–939–N, TS
PROJECT: HSIP—YIV6(043)
TRAFFIC SIGNAL MODERNIZATION
COOK, DUPAGE AND WILL COUNTIES

C-91-182-24

FOR LOCATION MAPS SEE SHEET NO. 3

VARIOUS TOWNSHIPS



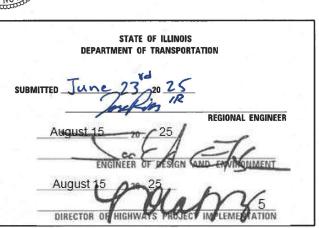
D-91-139-24



Signed DANIEL WIKTORZAK, P.E. IL. Lic. No. 062-060950

REGISTERED Expires 11-30-2025

Odd O6-23-2025



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV-SEP

INDEX OF SHEETS

SI	HT. NO	<u>o.</u>		DESCRIPTION
4	1 2 3 - 10	9 17		COVER SHEET INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES LOCATION MAPS SUMMARY OF QUANTITIES DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS (TS-02) DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
5	SHT. N	<u>10.</u>	TS NO.	DESCRIPTION
18 22 33 38 S	- - - 46 HT. No 47 48 49	37 45	8770 4040 21500 11140 20631	111TH ST AND OKETO AVE TRAFFIC SIGNAL PLANS 135TH ST AND CENTRAL AVE TRAFFIC SIGNAL PLANS IL RTE 83 (GLENWOOD DYER RD) AND BURNHAM AVE TRAFFIC SIGNAL PLANS IL RTE 113 (COAL CITY RD) AND I-55 SB RAMPS TRAFFIC SIGNAL PLANS IL RTE 38 (ROOSEVELT RD) AND NICOLL WAY TRAFFIC SIGNAL PLAN DESCRIPTION TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE MORE THAN 15'AWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OF CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
877011-10	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

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 DISTRICT 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 UTILITIES 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 UNDERGOUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "J.U.L.I.E." 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 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 AND ANY IMPACTED UTILITY COMPANY OF THE CONFLICT, AND SHALL COORDINATE AND RESOLVE THE ISSUE PRIOR TO ORDERING MATERIALS, AND PRIOR TO POURING FOUNDATIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE 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 ADA COMPLIANT. ANY DEVIATIONS FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.

DIMENSIONED OFFSETS FOR THE TRAFFIC SIGNAL MAST ARMS AND POST ARE MEASURED FROM THE BACK OF CURB TO THE CENTER OF THE FOUNDATION WHERE CURB IS PRESENT. IF NO CURB IS PRESENT, OFFSETS ARE MEASURED FROM THE EDGE OF PAVEMENT TO THE CENTER OF THE FOUNDATION.

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

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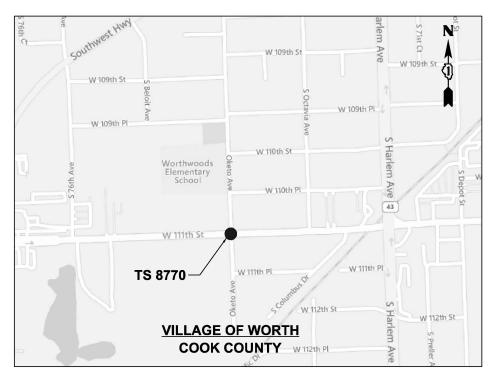
USER NAME = dwiktorzak	DESIGNED -	ZH	REVISED _	_
	DRAWN -	RG	REVISED -	
PLOT SCALE = 40.000 '/in.	CHECKED -	DW	REVISED -	
PLOT DATE = 6/10/2025	DATE -	6/11/2025	REVISED -	

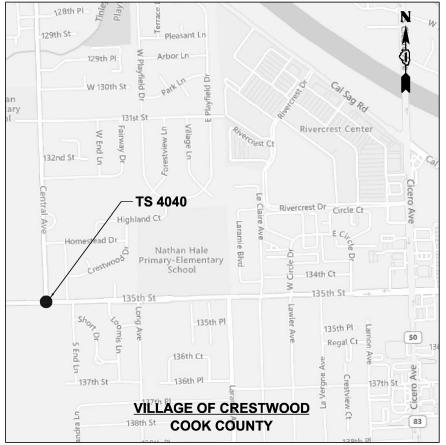
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

					HIGHWAY IERAL NOTES	;
SHEET	1	OF	1	SHEETS	STA.	

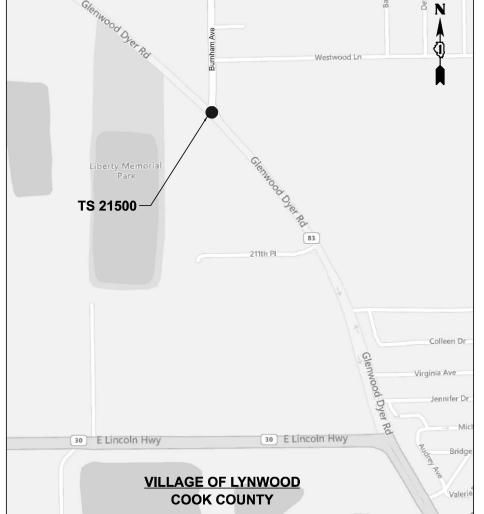
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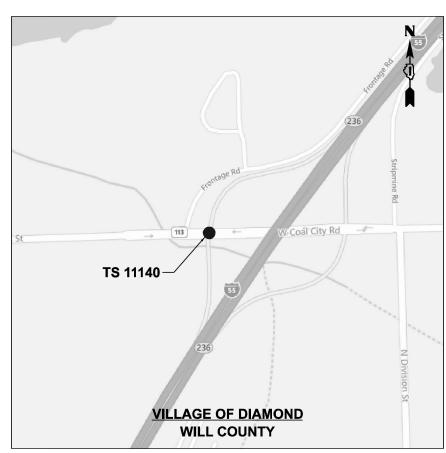
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	Si	
VAR	2023-939-N, TS	VAR	49		
		CONTRACT	NO. 62	W	
	ILLINOIS	FED. A	PROJECT		

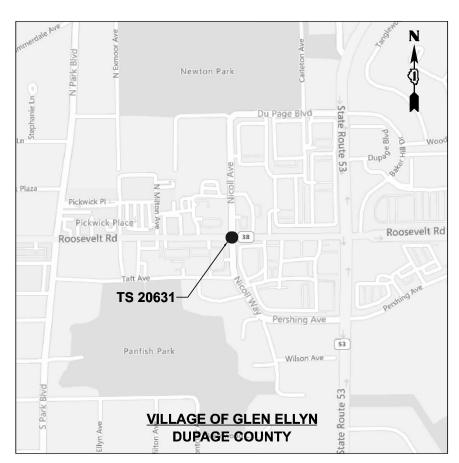




<u>s</u>	HT. NO.	TS#	LOCATION
	18 - 21	8770	111TH ST AND OKETO AVE
:	22 - 32	4040	135TH ST AND CENTRAL AVE
;	33 - 37	21500	IL RTE 83 (GLENWOOD DYER RD) AND BURNHAM AVE
;	38 - 45	11140	IL RTE 113 (COAL CITY RD) AND I-55 SB RAMPS
	46	20631	IL RTE 38 (ROOSEVELT RD) AND NICOLL WAY







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USER NAME = rgeorgescu	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
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PLOT DATE = 6/10/2025	DATE	-	6/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

									F.A. RTE.	SECTION
									VAR	2023-939-N, TS
	SCALE:	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS

COUNTY TOTAL SHEET NO.

VAR 49 3

CONTRACT NO. 62W62

					CONSTRUCTION CODE								
					90% FED 5% STATE 5% WORTH	90% FED 10% STATE	90% FED 7.5% STATE 2.5% TOLL CREDITS	90% FED 10% STATE	90% FED 10% STATE	100% WORTH EVP	100% CRESTWOOD EVP	100% TOLL CREDITS EVP	90% FED 10% STATE
						соок со.		WILL CO.	DUPAGE CO.		COOK CO.		соок со.
				TOTAL				TRAFFIC	SIGNALS				INTERCONNECT
	CODE NO.	ITEM	UNIT	QUANTITY				00)21	_			0021
									URBAN				
	20101000	TEMPORARY FENCE	FOOT	316				316					
	_												
*	66900200	NON-SPECIAL WASTE DISPOSAL	CUYD	167	33.4	33.4	33.4	33.4				_	33.4
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	5	1	1	1	1					1
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.2	0.2	0.2	0.2					0.2
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.2	0.2	0.2	0.2					0.2
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	18	4	4	4	4		_			2
										_			
	67100100	MOBILIZATION	L SUM	1	0.2	0.2	0.2	0.2	0.2				
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.2	0.2	0.2	0.2	0.2				
•													
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.2	0.2	0.2	0.2	0.2				
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.2	0.2	0.2	0.2	0.2				
										_			
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.2	0.2	0.2	0.2	0.2	_			
*	72000100	SIGN PANEL - TYPE 1	SQFT	48	25.5	22.5							
										_			
*	72000200	SIGN PANEL - TYPE 2	SQFT	53.25			38.25	15		_			
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2912	583	536	637	1156		_			
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* SPECIALTY ITEM



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	PLOT DATE = 6/10/2025	DATE -	6/11/2025	REVISED -

SCALE:

SUMMARY OF QUANTITIES (SHEET 1 OF 6)									
SHEET	1	OF	6	SHEETS	STA.	TO STA.			

				CONSTRUCTION CODE									
				90% FED 5% STATE 5% WORTH	90% FED 10% STATE	90% FED 7.5% STATE 2.5% TOLL CREDITS	90% FED 10% STATE	90% FED 10% STATE	100% WORTH EVP	100% CRESTWOOD EVP	100% TOLL CREDITS EVP	90% FED 10% STATE	
				COOK CO. WILL CO. DUPAGE CO. COOK CO.								соок со.	
			TOTAL				TRAFFIC	SIGNALS				INTERCONNECT	
CODE NO.	ITEM	UNIT	QUANTITY				0	021				0021	
								URBAN				,	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	424	84	96	160	84						
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1931	245	246	326	329					785	
81400100	HANDHOLE	EACH	8			1	5					2	
81400200	HEAVY-DUTY HANDHOLE	EACH	23	4	6	4	3					6	
81400300	DOUBLE HANDHOLE	EACH	4	1	1	1	1						
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7	1	3	1	1	1					
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1	1									
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	1	1									
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 141C	FOOT	393									393	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 2C	FOOT	495	495									
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1530	525					240	365	400		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7130	2395	1760	1690	1285						
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2085			1240	845						
								1	1				
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5535	1400	940	1255	1940						
	,												



USER NAME = dwiktorzak	DESIGNED	-	ZH	REVISED -
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PLOT SCALE = 40.000 ' / in.	CHECKED	-	DW	REVISED -
PLOT DATE = 6/10/2025	DATE	-	6/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 2 OF 6 SHEETS STA. TO STA.												
SCALE:	SHEET	2	OF	6	SHEETS	STA.	TO STA.					

				CONSTRUCTION CODE								
				90% FED 5% STATE 5% WORTH	90% FED 10% STATE	90% FED 7.5% STATE 2.5% TOLL CREDITS	90% FED 10% STATE	90% FED 10% STATE	100% WORTH EVP	100% CRESTWOOD EVP	100% TOLL CREDITS EVP	90% FED 10% STATE
					соок со.		WILL CO.	DUPAGE CO.		COOK CO.		соок со.
			TOTAL				TRAFFIC	SIGNALS				INTERCONNECT
CODE NO.	ITEM	UNIT	QUANTITY				0	021				0021
								URBAN				
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	450	140	90	160	60					
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2320	540	495	695	590					
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	12	3	3	4	2					
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1		1							
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1		1							
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1	1								
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	4	2		1	1					
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1							
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1								
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1				1					
87702390	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 30 FT.	EACH	1			1						
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1			1						
-												
87704313	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 54 FT	EACH	1				1					
					İ							
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	64	16	16	20	12					

USER NAME = dwiktorzak	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000 ' / in.	CHECKED -	DW	REVISED -
PLOT DATE = 6/10/2025	DATE -	6/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES									SEC	TION		COUNTY	SHEETS	SHEET NO.
	(SHEET 3 OF 6)									9-N, TS		VAR	49	[6
												CONTRACT	NO. 6	2W62
SCALE:	SHEET	3	OF	6	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PRO				PROJECT		

COUNTY TOTAL SHEET NO.

VAR 49 6

				CONSTRUCTION CODE								
				90% FED 5% STATE 5% WORTH	90% FED 10% STATE	90% FED 7.5% STATE 2.5% TOLL CREDITS	90% FED 10% STATE	90% FED 10% STATE	100% WORTH EVP	100% CRESTWOOD EVP	100% TOLL CREDITS EVP	90% FED 10% STATE
_					соок со.		WILL CO.	DUPAGE CO.		соок со.		соок со.
			TOTAL				TRAFFIC	SIGNALS				INTERCONNECT
CODE NO.	ITEM	UNIT	QUANTITY				0	021				0021
								URBAN				
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	16	4	4	4	4					
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	99	43.5	33,5	10	12					
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54			23	31					
87900200	DRILL EXISTING HANDHOLE	EACH	6	3								3
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	22	8	6	4	4					
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	22	8	6	5	3					
88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1			1						
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	5			3	2					
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2			1	1					
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2			1	1					
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	4								
		1										
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	29	8	6	8	7					
88500100	INDUCTIVE LOOP DETECTOR	EACH	18	4	4	3	7					
		1			<u> </u>		1	1				
88600100	DETECTOR LOOP, TYPE I	FOOT	1133	130	329	93	581					
1		1	1	1	1	1	1		1		İ	1

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	USER NAME = dwiktorzak	DESIGNED	-	ZH	REVISED	-
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	PLOT DATE = 6/10/2025	DATE	-	6/11/2025	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 4 OF 6)													
SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.													

				CONSTRUCTION CODE								
				90% FED 5% STATE 5% WORTH	90% FED 10% STATE	90% FED 7.5% STATE 2.5% TOLL CREDITS	90% FED 10% STATE	90% FED 10% STATE	100% WORTH EVP	100% CRESTWOOD EVP	100% TOLL CREDITS EVP	90% FED 10% STATE
					соок со.		WILL CO.	DUPAGE CO.		соок со.		соок со.
			TOTAL				TRAFFIC	SIGNALS				INTERCONNECT
CODE NO.	ITEM	UNIT	QUANTITY				0	021				0021
								URBAN				
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	6						2	2	2	
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	3						1	1	1	
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	460	395			65					
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1	1	1	1				
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1005						240	365	400	
X0325922	CELLULAR MODEM	EACH	2			1	1					
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	195		<u> </u>	95	100					
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	4	1	1	1	1					
X1400130	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	"	'	'	<u>'</u>	•					
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	2			1	1					
			-				•					
X1400216	LAYER II (DATALINK) SWITCH	EACH	4		2	1	1					
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1	1								
		1										
X8809002	LED SIGNAL FACE VISOR HEATER	EACH	15			15						
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	1.2	1.2	1.2	1.2	1.2				
X7200061	TEMPORARY INFORMATION SIGNING	SQFT	205.6	51.4	51.4	51.4	51.4					

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 USER NAME
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 DESIGNED
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 DRAWN
 RG
 REVISED

 PLOT SCALE
 = 40.000 '/ in.
 CHECKED
 DW
 REVISED

 PLOT DATE
 = 6/24/2025
 DATE
 6/11/2025
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES (SHEET 5 OF 6)

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

CONSTRUCTION CODE

FILE NAME: X:\Projects\2023\2382\219700 IDOT PTB 207	
FILE NAME	

USER NAME = zhoerbert	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 '/ in.	CHECKED	-	DW	REVISED -
PLOT DATE = 6/24/2025	DATE	-	6/11/2025	REVISED -

ITEM

UNDERGROUND CONDUIT, MULTI-DUCT, 3-22MM (2), 1.25 SDR 11(1) MICRODUCTS

FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET

UNINTERRUPTABLE POWER SUPPLY (SPECIAL)

FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE

FIBER OPTIC INTERCONNECT CENTER, 24 PORT

CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER

VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH

RELOCATE VIDEO VEHICLE DETECTION SYSTEM

RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1

RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

ACCESSIBLE PEDESTRIAN SIGNALS

LED SIGNAL FACE, LENS COVER

FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)

CODE NO.

X8101099

X8570232

X8570233

X8620200

X8710029

X8710070

X8760200

X8780012

X8809005

X8891009

X8891402

Z0033044

Z0033046

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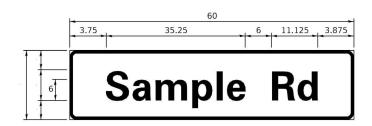
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

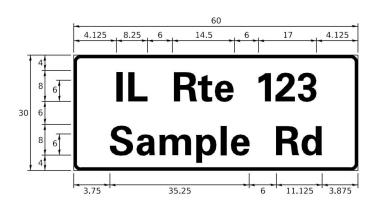
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SCALE:	SHEET	6	OF	6	SHEETS	STA.

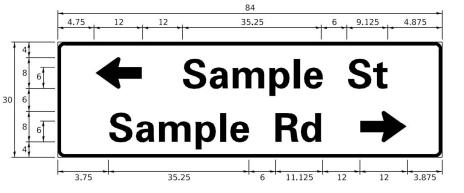
TO STA.

	CONSTRUCTION CODE									
	90% FED 5% STATE 5% WORTH	90% FED 10% STATE	90% FED 7.5% STATE 2.5% TOLL CREDITS	90% FED 10% STATE	90% FED 10% STATE	100% WORTH EVP	100% CRESTWOOD EVP	100% TOLL CREDITS EVP	90% FED 10% STATE	
		соок со.		WILL CO.	DUPAGE CO.		соок со.		соок со.	
TOTAL			'	TRAFFIC	SIGNALS	1			INTERCONNEC	
QUANTITY				00)21				0021	
ŀ	URBAN									
5067									5067	
3007									3007	
2			1	1						
2	1	1								
4	1	1	1	1						
5556									5556	
2		2								
12	4				8					
					"					
4	4									
39	16	12		11						
2			2							
1	1									
4	1		1	1	1					
3		3								
, 		<u> </u>								

SIGN PANEL - TYPE 1 OR TYPE 2







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

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

·			
NAME	ABBREVATION	WIDTH	(INCH)
INAME	ADDREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8. 250	9. 625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7. 000	8. 250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23. 375	27.375
PLACE	PΙ	7. 125	7. 750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8. 000	9. 125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7. 750	9. 125
UNITED STATES	US	10.375	12.250

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 ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) 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.
- 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 IF POSSIBLE, BUT MAY BE REDUCED TO 5" 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. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 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 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 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 REQUIREMENT 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 SIGN CHANNEL MIDLOTHIAN, VA SIGN SCREWS

- WESTERN REMAC, INC.

WOODRIDGE, IL

SIGN CHANNEL
SIGN SCREWS
BRACKETS

PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3

SELF TAPPING WITH NEOPRENE WASHER

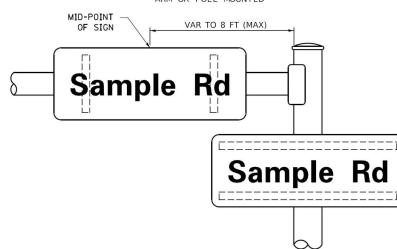
PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

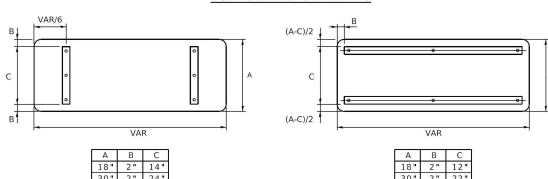
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION





SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

	FHWA SE	RIES "C"			FHWA SE	RIES "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
Ε	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
H	0.880	4.482	0.880	Н	0.960	5.446	0.960
I	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
Т	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
٧	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
X	0.240	4. 722	0.240	Х	0.400	5.446	0.400
Y	0.240	5. 122	0.240	Υ	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
Ь	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	e	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
į	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	1	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 0.480	0	0.480	4.882	0.480
P	0.720	4.082		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 0.080	3. 362 2. 882	0.240 0.080	s t	0.320 0.080	3. 762 3. 202	0.240
- 1		200000000000000000000000000000000000000			0. 080		
u	0.640	4.082	0.720	u		4.722	0.800
V W	0.160 0.160	4. 722 7. 524	0.160 0.160	V	0.160	5.684	0.160
w	0.160	7. 524	0.000	W	0.160 0.000	9.046 6.244	0.160
×	-	5. 202		X			
У 7	0.160	4. 962	0.160 0.240	У	0.160	6.004	0.160
Z 1	0. 240	3. 362		z 1	0. 240	4.002	0.240
1	0.720	1.680	0.880		0.800	2.000	0.960
3	0.480	4. 482 4. 482	0.480	3	0.800	5.446	0.800
4	0.480		0.480	4	1.440	5.446	0.800
	0. 240	4.962	0.720	5	0.160	6.004	0.960
5	0.480	4.482	0.480		0.800 0.800	5.446	0.800
6 7	0.720	4.482	0.720	6 7		5.446	0.800
	0.240	4.482	0.720	8	0.560	5. 446 5. 446	0.560
8	0.480	4.482 4.482	0.480		0.800		0.800
9	0.480		0.480	9	0.800	5.446	0.800
-	0.720 0.240	4. 722 2. 802	0.720 0.240	-	0.800	5.684 2.802	0.800
	0. 240	Z. 0UZ	0.240		0.240	2.002	0.240

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL LEGEND

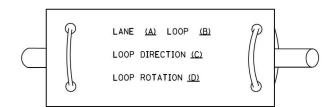
(NOT TO SCALE)

<u>ITEM</u>	EXISTING	PROPOSED	<u>ITEM</u>	<u>EXISTING</u>	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y Y	R R Y
COMMUNICATION CABINET	ECC	CC	HEAVY DUTY HANDHOLE				© © ♠) ♠) ♠	G G 4 Y 4 G 4 G
MASTER CONTROLLER	EMC	MC	-SQUARE -ROUND	H (H)	⊞ ⊕		P	4 G 4 G P
MASTER MASTER CONTROLLER	EMMC	ммд	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		
UNINTERRUPTABLE POWER SUPPLY	4	7	JUNCTION BOX		•	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		Y Y Y G G
SERVICE INSTALLATION -(P) POLE MOUNTED	-D- ^P	- ■ -	RAILROAD CANTILEVER MAST ARM	X OX X	X eX X			4 Y 4 Y 4 G 4 G
SERVICE INSTALLATION -(G) GROUND MOUNTED	$\boxtimes^{G}\boxtimes^{GM}$	⊠ ^G ⊠ ^{GM}	RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE	X0X X0X —	X•X X•X─		P RB	P RB
-(GM) GROUND MOUNTED METERED	ET	T	RAILROAD CROSSBUCK	₹	*	PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS	()	₩
TELEPHONE CONNECTION STEEL MAST ARM ASSEMBLY AND POLE	O	•——	RAILROAD CONTROLLER CABINET		▶ ∢	PEDESTRIAN SIGNAL HEAD	© c	₽ C ★ D
ALUMINUM MAST ARM ASSEMBLY AND POLE		-	UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			WITH COUNTDOWN TIMER		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o-¤—	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	• • BM	SYSTEM ITEM	5	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
WOOD POLE	\otimes	$oldsymbol{\Theta}$	INTERSECTION ITEM REMOVE ITEM	I	IP R	GROUND CABLE IN CONDUIT,	1#6	
GUY WIRE	>-	>-	RELOCATE ITEM		RL	NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER	,	
SIGNAL HEAD	>	-	ABANDON ITEM		Α	NO. 14 1/C		
SIGNAL HEAD WITH BACKPLATE	+t> . P P	+ > -> P +> P	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	—c—
SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION	-D' +D' ○D F ○D FS	→ +→ FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		<u></u>
-(FS) SOLAR POWERED	ors ors	F FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	(6#18)	<u>(6#18)</u>
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F		——————————————————————————————————————
PEDESTRIAN PUSH BUTTON (APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP	P P	РР	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	s s	S S			—(36F)—
/IDEO DETECTION CAMERA	V	V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (IS)	IS (IS)			
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	<u> </u>	$\stackrel{\stackrel{\cdot}{=}^{C}}{\stackrel{\cdot}{=}}^{C} \stackrel{\stackrel{\cdot}{=}^{M}}{\stackrel{\cdot}{=}} \stackrel{\stackrel{\cdot}{=}^{C}}{\stackrel{\cdot}{=}}$
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ	WIRELESS DETECTOR SENSOR	(1)	®	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\bowtie	◄	WIRELESS ACCESS POINT					
CONFIMATION BEACON	○ ()	⊷						
NIRELESS INTERCONNECT	⊶ —	•••						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
USER NAME = footemj	DESIGNED -			TATE OF HUMOIO		DISTRICT ONE	F.A. SECTION	N COUNTY TOTAL SHEETS
PLOT SCALE = 50.0000 ' / i		LP REVISED -	DEPARTM	STATE OF ILLINOIS IENT OF TRANSPORTATION		ANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR 2023-939-N	TS VAR 49 CONTRACT NO. 62V
PLOT DATE = 3/4/2019	DATE -	9/29/2016 REVISED -			SCALE:	SHEET 1 OF 7 SHEETS STA. TO STA.	ILLI	NOIS FED. AID PROJECT

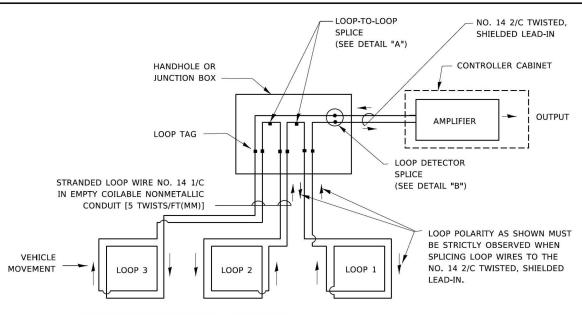
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

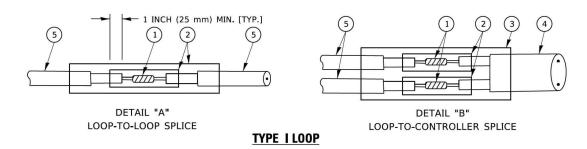


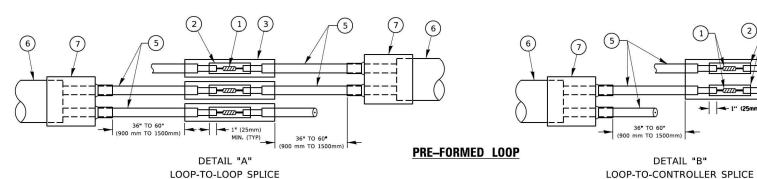
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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





LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE,
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

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

1" (25mm) MIN, (TYP)

USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

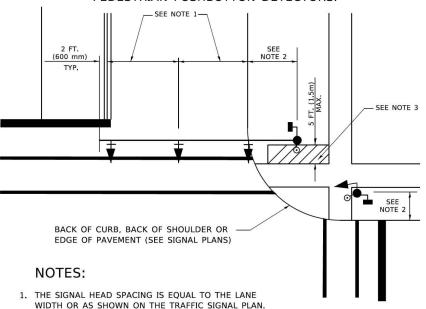
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION DISTRICT ONE 2023-939-N, TS VAR 49 12 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 62W62 TS-05 SHEET 2 OF 7 SHEETS STA.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

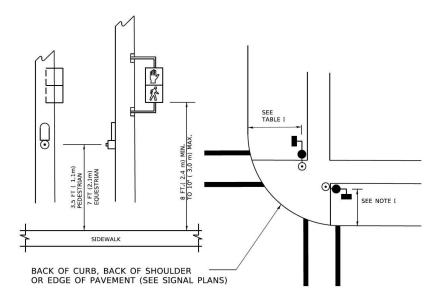
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA, INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS



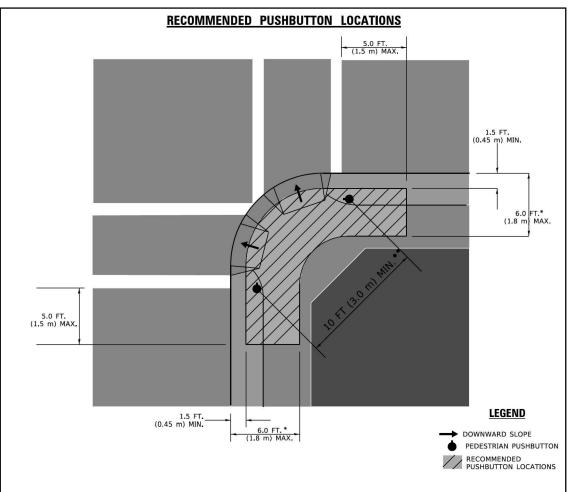
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO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

PEDESTRIAN SIGNAL POST PEDESTRIAN PUSH BUTTON POST



NOTES:

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



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1,8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

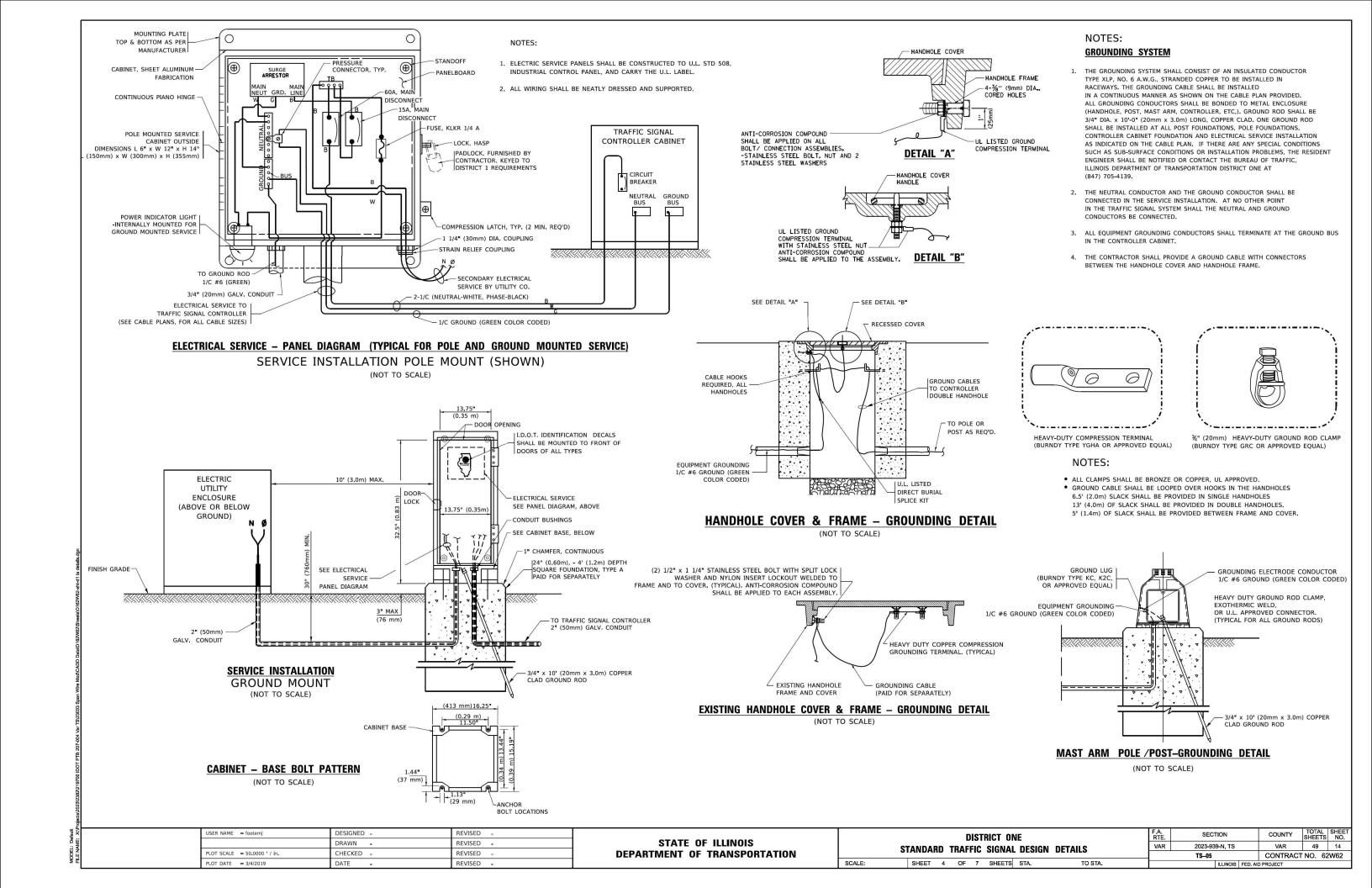
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

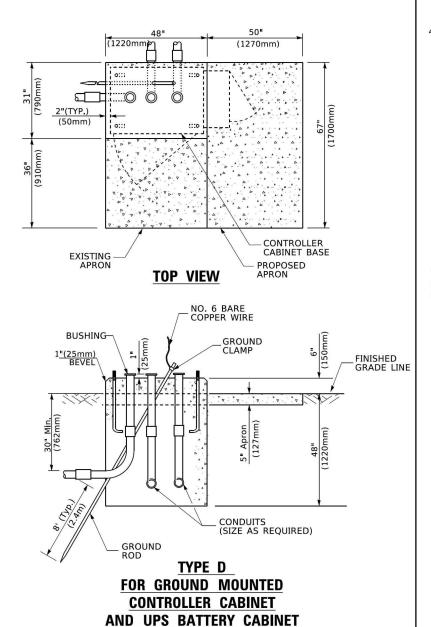
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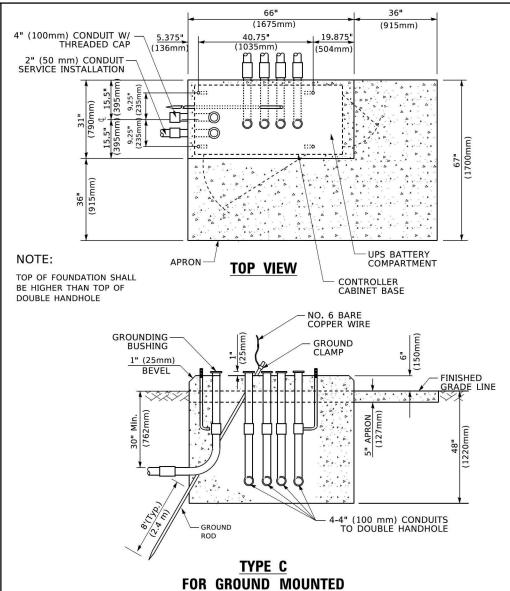
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PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT ONE							F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	STANDARD TRAFFIC SIGNAL DESIGN DETAILS				VAR	2023-939-N, TS	VAR	49	13			
ان	STANDARD TRAFFIC SIGNAL DESIGN DETAILS					TS-05	CONTRACT	NO. 62	W62			
	SHEET	3	OF	7	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		







SUPER P (TYPE IV) AND SUPER R (TYPE V)

CONTROLLER CABINETS

31" (787mm) (660mm)	2½" "[(64mm) " [257] "] [25mm) "] "[257] "] [257] [27]	
2" (51mm)	M	2" x 6" (51mm x 152mm) WOOD FRAMING (TYP.)
TRAFFIC SIGNAL — CONTROLLER CABINET 34" (19mm) TREATED PHYWOOD DECK		□ = = = □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
2" x 6" (51mm x 152mm) TREATED WOOD	•	
48" MIN. 12" MIN. (12.19mm) (305mm)		
NOTES: TREATED WOOD POSTS		
1. BASED ON CONTROLLER CABINET TYPE IV WITH B ADJUST PLATFORM SIZE TO FIT CABINET BASE DIN	SASE DIMENSIONS OF 26" x 4 MENSIONS BEING SUPPLIED	4" (660mm x 1118mm).
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CAB ADJUST PLATFORM SIZE TO FIT CABINET BASE DIN	INET WITH BASE DIMENSIONS MENSIONS BEING SUPPLIED.	OF 16" x 25" (406mm x 635mm).
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE	IV.	

65" (SEE NOTE 4) (1651mm)

SEE NOTE 5-

- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

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

VERTICAL CABLE LENGTH

CABLE SLACK

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

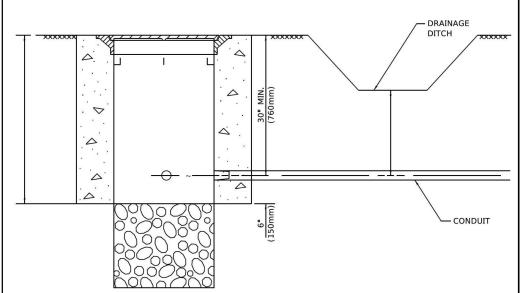
DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4 . 0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4 . 6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7,6 m)	42" (1060mm)	36" (900mm)	16	8(25)

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

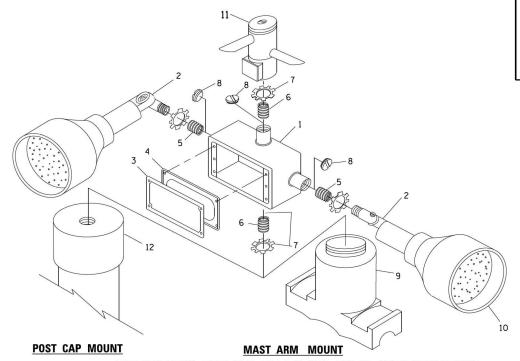
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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	8	TANDARD TRAFFIC SIGNAL DESIGN DETAILS	, i	S-05	CONTRAC	T NO. 62W	
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE:	SHEET 5 OF 7 SHEETS STA. TO STA.			AID PROJECT		



NOTES

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 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



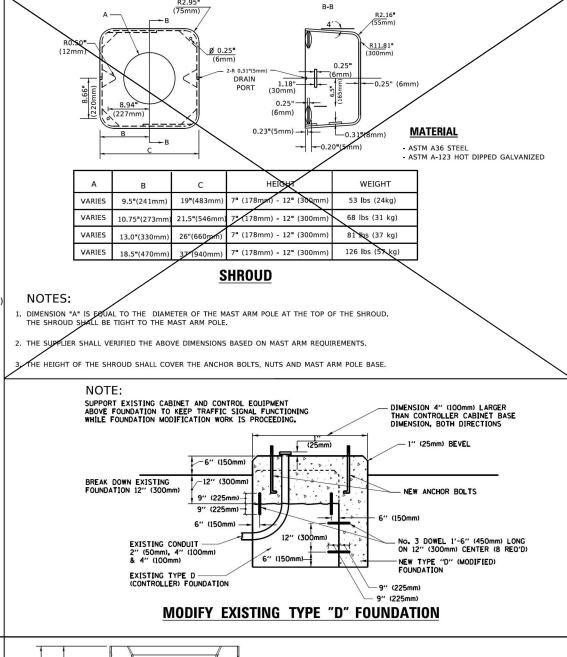
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL

(1675mm (915mm) 40.75" 19.875" (136mm) (1035mm) (504mm) \bigcirc \odot CONTROLLER CABINET BASE PROPOSED-**TOP VIEW APRON** -NO. 3 DOWEL 18" (450mm NO. 6 BARE COPPER WIRE LONG (8 REQ.) BUSHING-_GROUND CLAMP EXISTING-ANCHOR BOLTS GRADE LINE BEVEL (225mm) -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION (NOT TO SCALE)

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

NOTES:

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



CALVANIZED STEEL HOOKS 21 1/2 MIN. (545mm) CONDUIT BUSHING EXISTING CONDUIT TO BE REMOVED EXISTING CONDUIT TO REMAIN EXISTING CONDUIT TO REMAIN ELEVATION

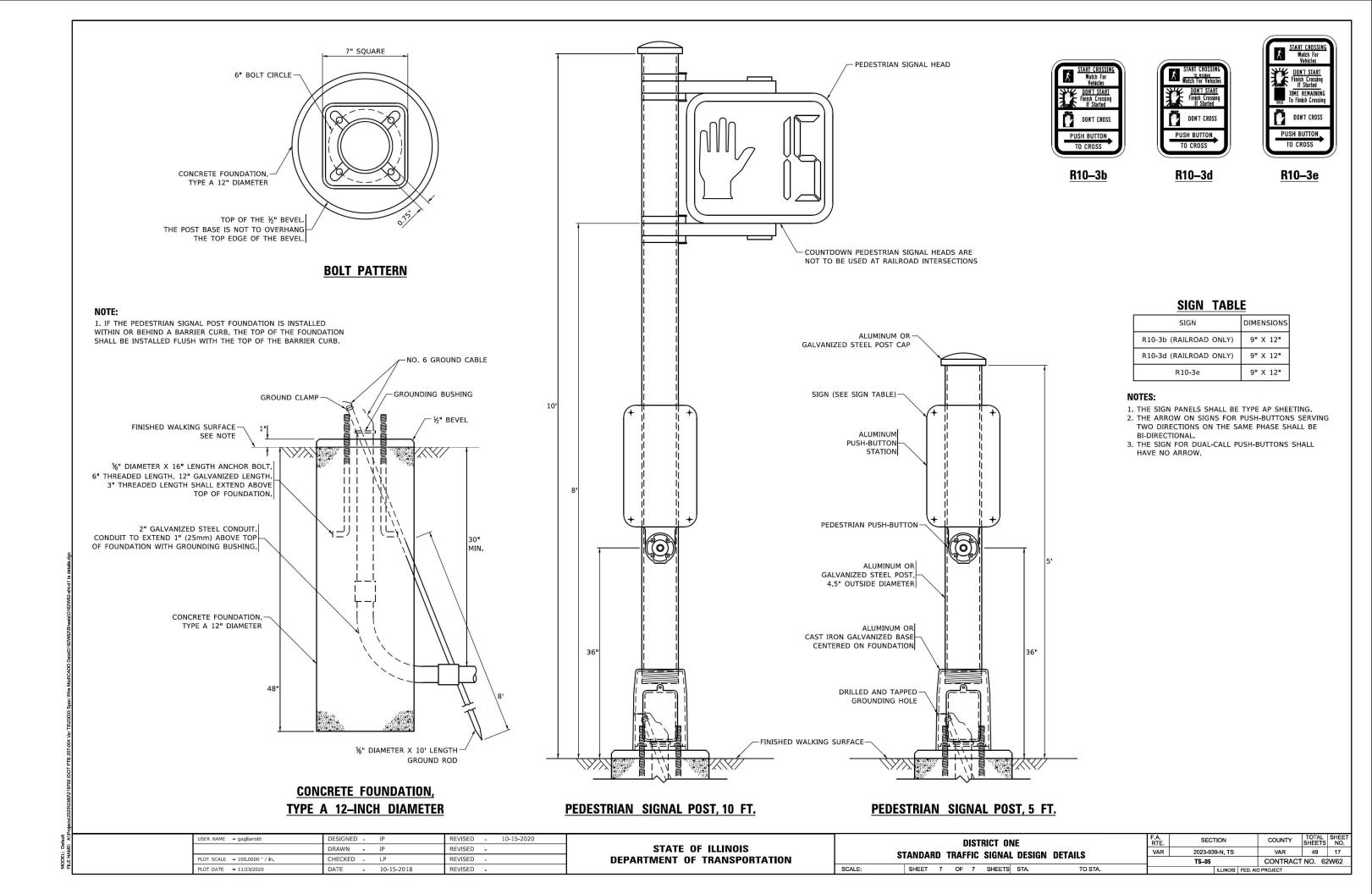
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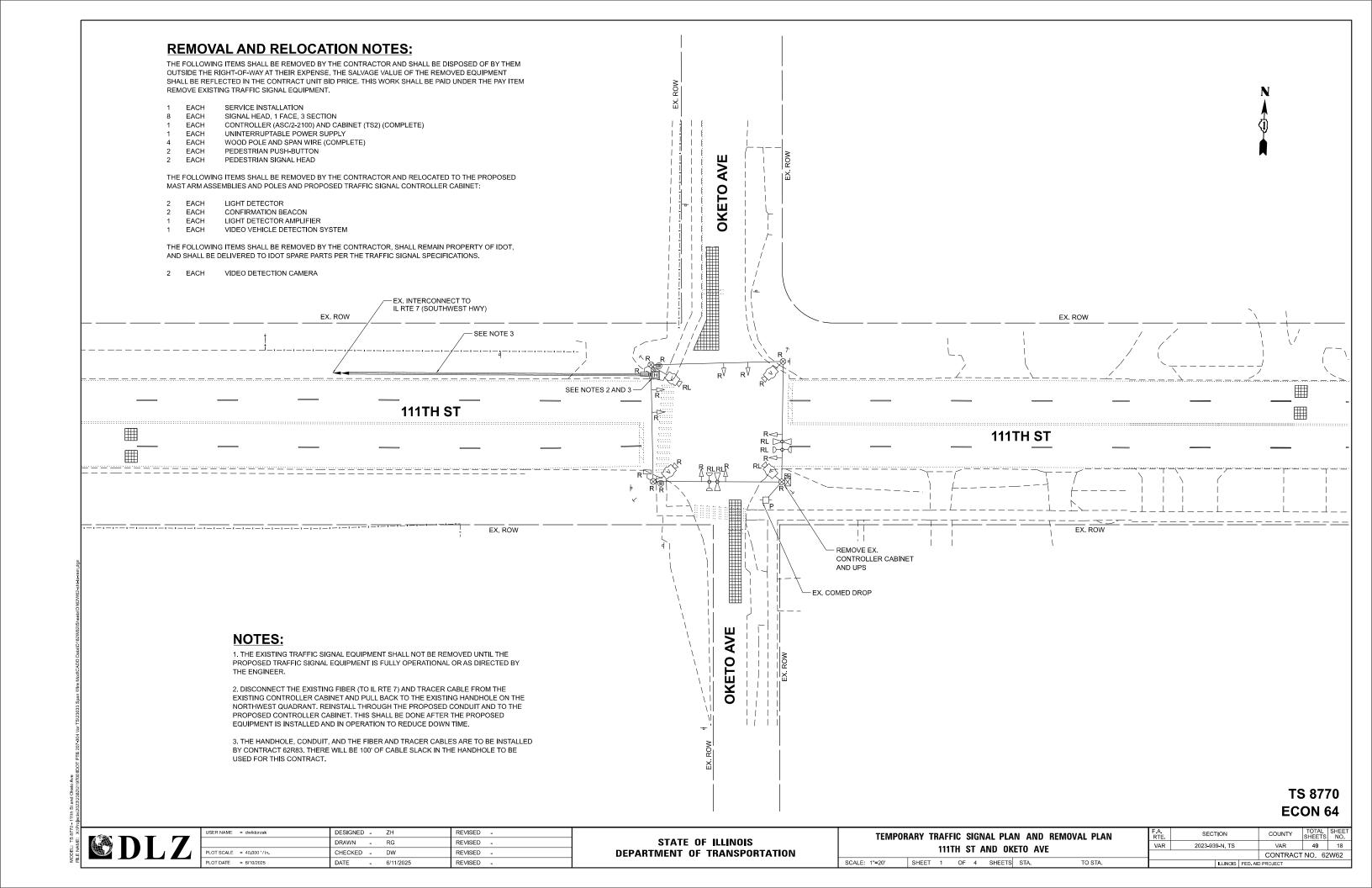
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

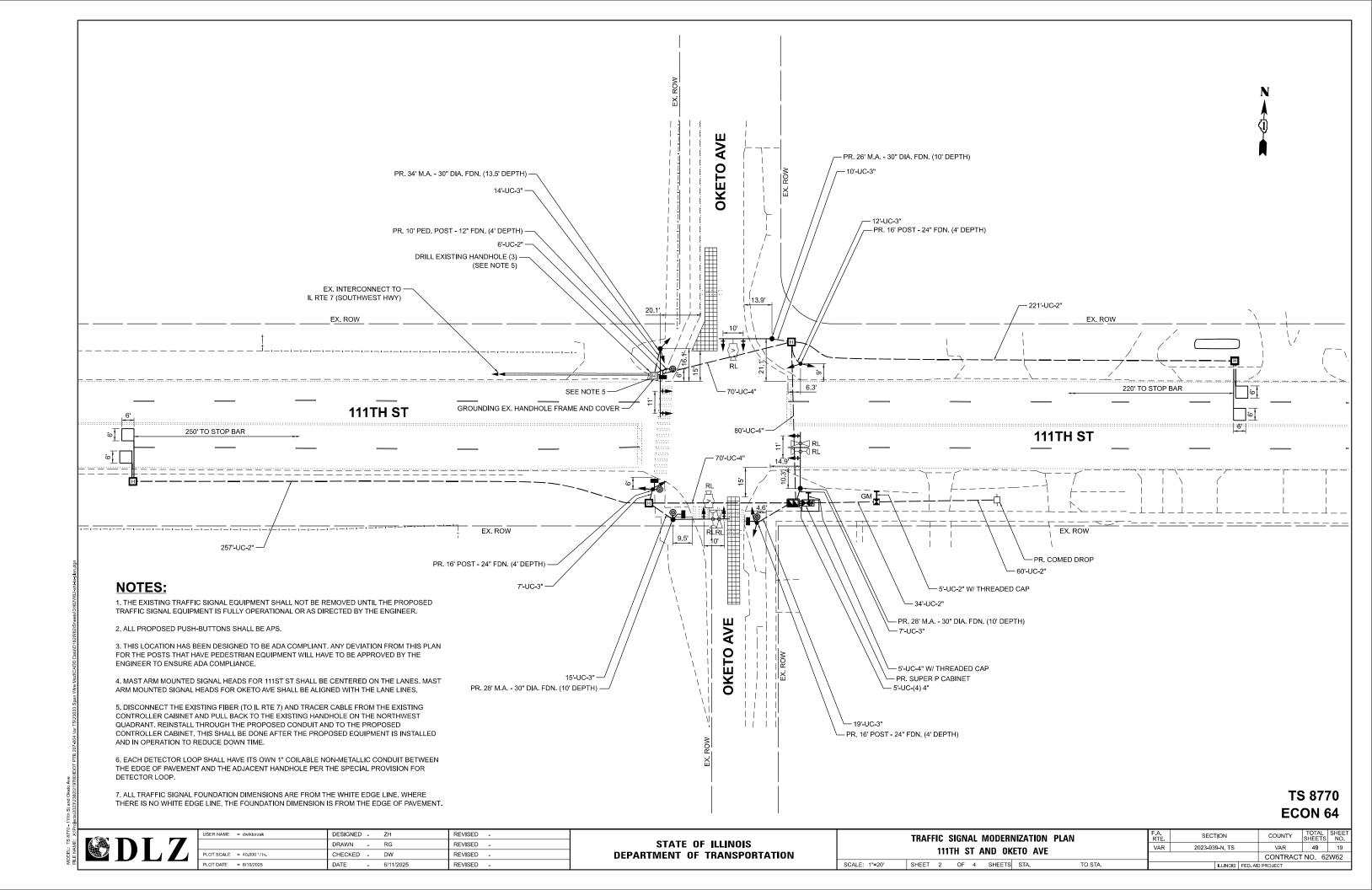
HANDHOLE TO INTERCEPT EXISTING CONDUIT

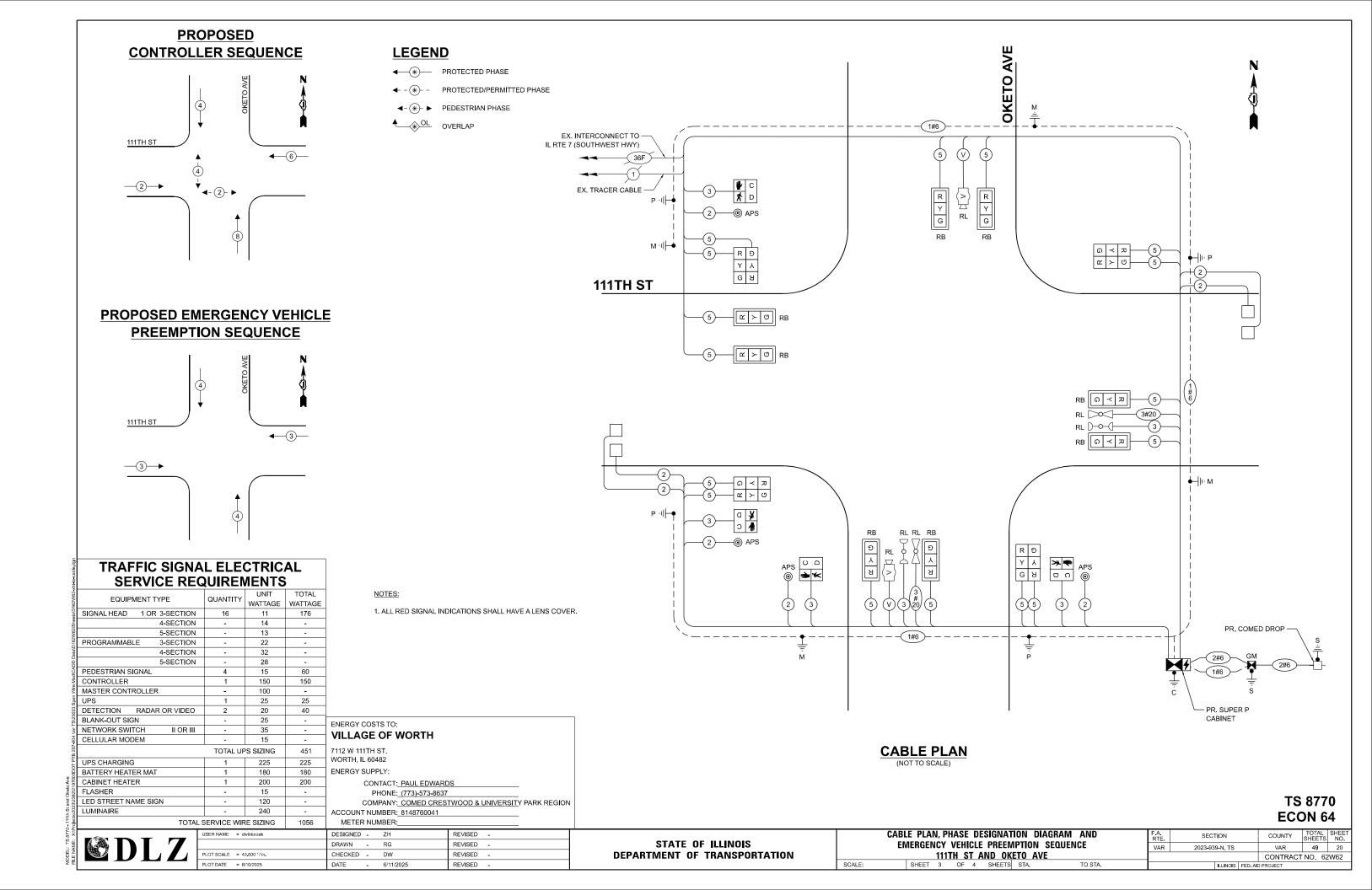
| SHEET | 6 | OF | 7 | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | STAND | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



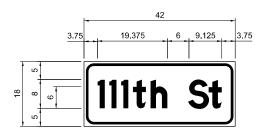




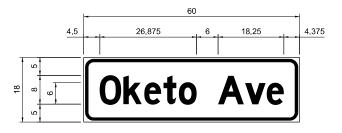


SIGN PANEL DETAIL - TYPE 1

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	5.25	1	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	7.5	1	ZZ	2

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET
NAME SIGN DETAIL.

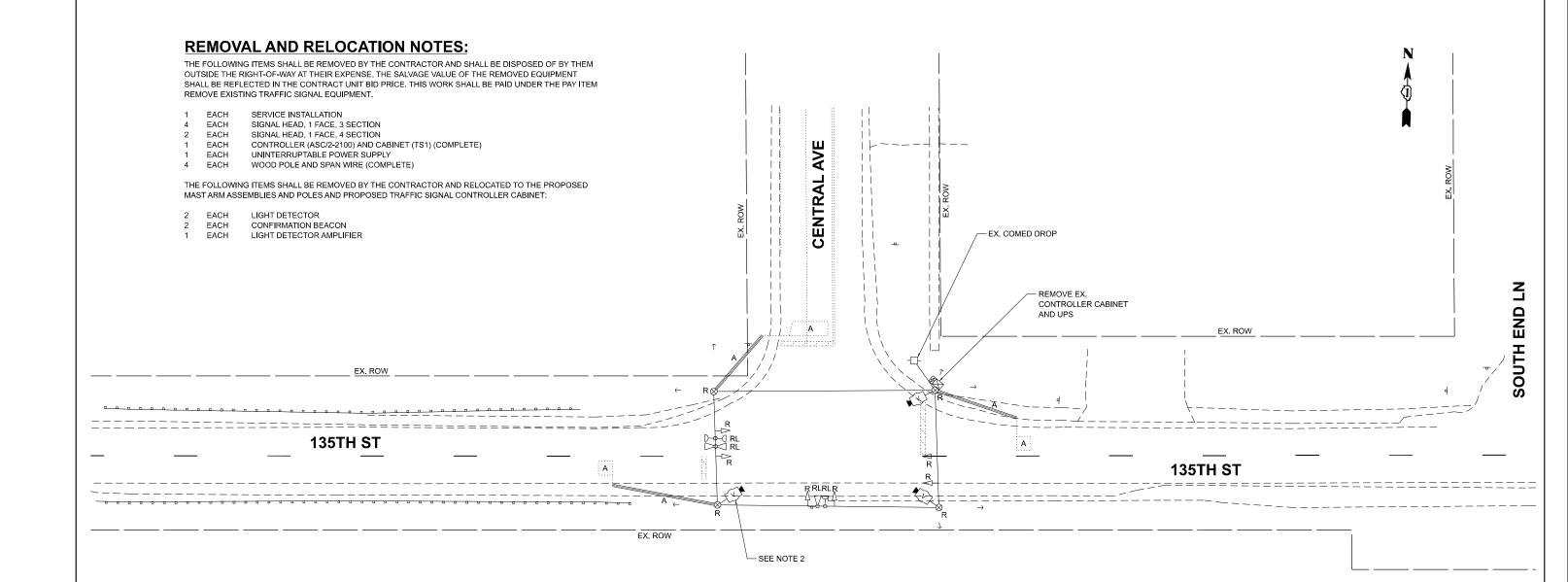
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	25.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	583
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	84
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	245
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	495
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	765
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2395
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1400
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	140
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	540
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE. 28 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	43.5
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	130
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	395
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	240
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
TEMPORARY INFORMATION SIGNING	SQFT	51.4
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
LED SIGNAL FACE, LENS COVER	EACH	16
RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% COST TO THE VILLAGE OF WORTH

TS 8770 ECON 64

USER NAME = zhoerbert	DESIGNED - ZH	REVISED -	
	DRAWN - RG	REVISED -	
PLOT SCALE = 40.000 '/in.	CHECKED - DW	REVISED -	
PLOT DATE = 6/24/2025	DATE - 6/11/2025	REVISED -	



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.

2. THE EXISTING DETECTOR LOOPS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. IF THE DETECTOR LOOPS CANNOT BE MAINTAINED DUE TO CONSTRUCTION OF THE PROPOSED SIGNAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE A TEMPORARY VIDEO VEHICLE DETECTION SYSTEM. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL EQUIPMENT.

TS 4040 IDOT CENTRACS

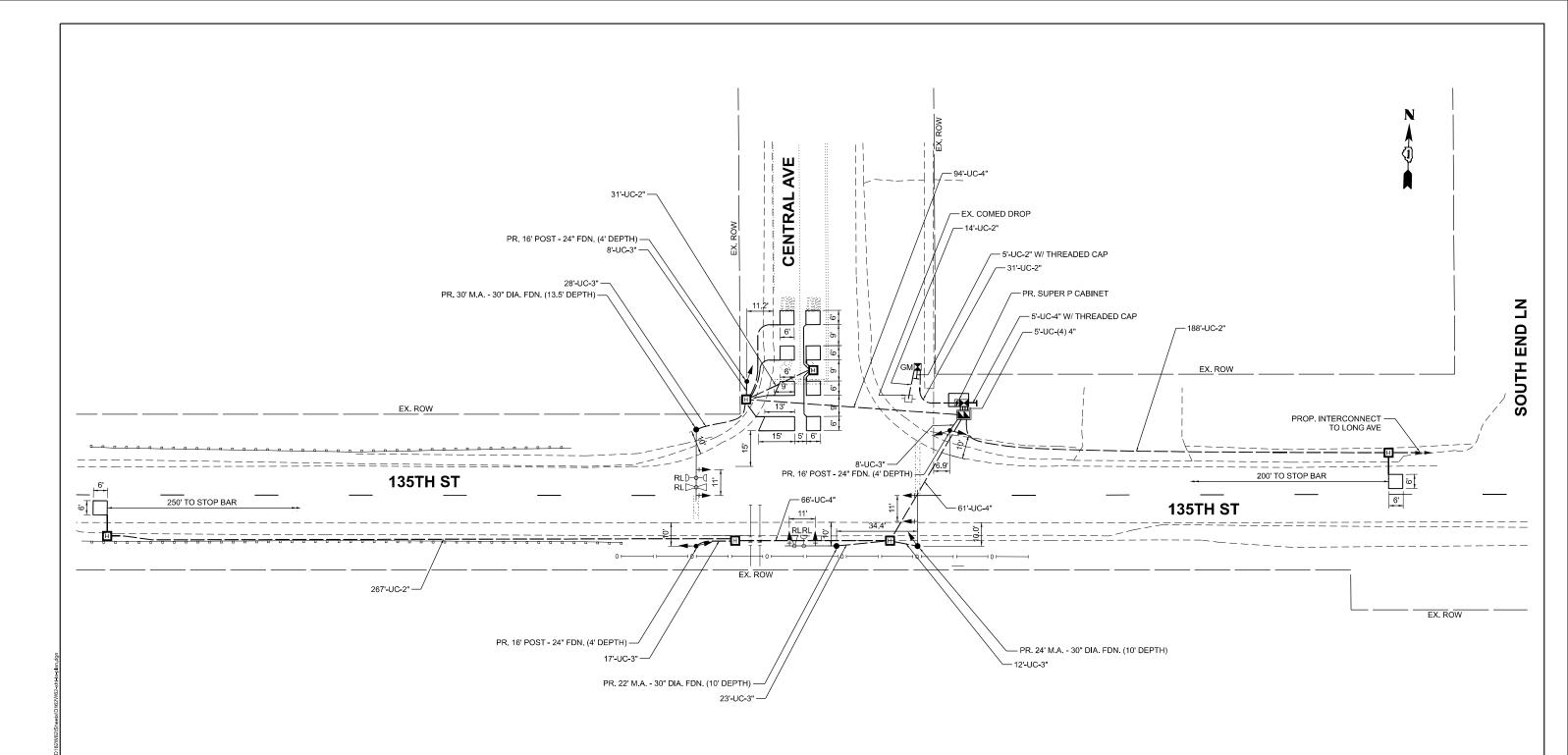


USER NAME = dwiktorzak	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000 / in.	CHECKED -	DW	REVISED -
PLOT DATE = 6/10/2025	DATE -	6/11/2025	REVISED -

STATI	E OI	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

TEMPOR	ARY 1	TRAFFI	C S	IGN	AL PLAI	N AND	REMOVAL PLAN
		135TH	ST	ΑN	ID CEN	TRAL A	VE
SCALE: 1"=20"	SHEET	1	OF	11	SHEETS	STA.	TO STA.

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHE	
VAR	2023-939-N, TS	VAR	49	2	
			CONTRACT	NO. 62	2W6
	ILLINOIS	FED. AIC	PROJECT		



NOTES:

- 1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2. MAST ARM MOUNTED SIGNAL HEADS FOR 135TH ST SHALL BE ALIGNED WITH THE LANE LINES. MAST ARM MOUNTED SIGNAL HEADS FOR CENTRAL AVE SHALL BE CENTERED ON THE LANES.
- 3. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE PER THE SPECIAL PROVISION FOR DETECTOR LOOP
- 4. ALL TRAFFIC SIGNAL FOUNDATION DIMENSIONS ARE FROM THE WHITE ROADWAY EDGE LINE.

TS 4040 IDOT CENTRACS



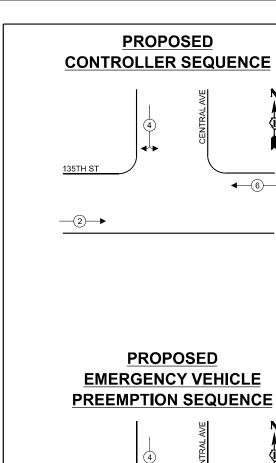
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED - DW	REVISED -
PLOT DATE = 6/10/2025	DATE - 6/11/2025	REVISED -

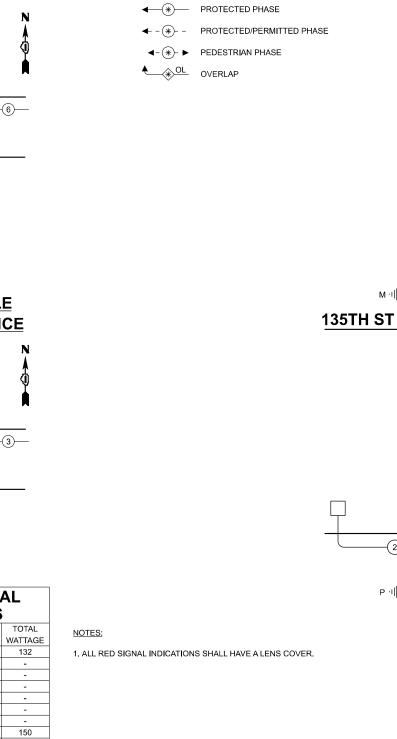
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN							
135TH ST AND CENTRAL AVE							
SHEET	2	OF	11	SHEETS	STA.		TO STA.

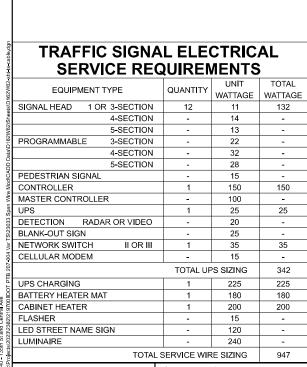
SCALE: 1"=20'

ı	RTE	SECTION			COUNTY	NTY SHEETS	
ı	VAR	2023-93	VAR	49	2		
4					CONTRACT	NO. 62	2W6
			ILLINOIS	FED. AI	D PROJECT		





LEGEND



ENERGY COSTS TO:

VILLAGE OF CRESTWOOD

13800 S CICERO AVE.
CRESTWOOD, IL 60418
ENERGY SUPPLY:

CONTACT: PAUL EDWARDS
PHONE: (773)-573-8637
COMPANY: COMED CRESTWOOD & UNIVERSITY PARK REGION
ACCOUNT NUMBER: 3104382000
METER NUMBER:



SCALE:

4€

TS 4040 IDOT CENTRACS



135TH ST

USER NAME = dwiktorzak	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 6/10/2025	DATE	-	6/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABL	E PLA	N, I	PHAS	E D	ESIGNAT	10N	DIAGRAM	AND	
ΕN	EMERGENCY VEHICLE PREEMPTION SEQUENCE								
		135	TH S	T A	ND CEN	TRAL	AVE		
	SHEET	3	OF	11	SHEETS	STA.		TO STA.	

1#6 -----

RB G ≺ ℤ

EX. COMED DROP -

AVE

CENTRAL

1#6

A TE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
/AR	2023-939-N, TS	VAR	49	24	
			CONTRACT	NO. 62	W62
ILLINOIS FED. AID PROJECT					

PR. SUPER P CABINET

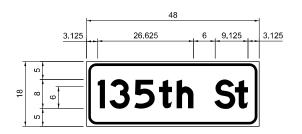
PROP. INTERCONNECT TO LONG AVE

- PROP. TRACER CABLE

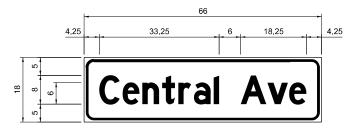
TS 4040 - 135th St and Central Ave

SIGN PANEL DETAIL - TYPE 1

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	ERIES (SQ FT) TYPE		TYPE	REQUIRED
D	8.25	1	ZZ	2

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET
NAME SIGN DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNIT	TOTAL
			QUANTITY
ļ	SIGN PANEL - TYPE 1	SQ FT	22.5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	536
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	96
l	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	246
	HEAVY-DUTY HANDHOLE	EACH	6
	DOUBLE HANDHOLE	EACH	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
*	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	365
Ī	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1760
Ī	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	940
Ī	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	90
Ī	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	495
Ī	TRAFFIC SIGNAL POST, 16 FT.	EACH	3
Ī	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
Ī	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
Ī	CONCRETE FOUNDATION, TYPE A	FOOT	16
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
Ī	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	6
Ī	INDUCTIVE LOOP DETECTOR	EACH	4
	DETECTOR LOOP, TYPE I	FOOT	329
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
*	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	365
Ī	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	LAYER II (DATALINK) SWITCH	EACH	1
	TEMPORARY INFORMATION SIGNING	SQ FT	51.4
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
Ī	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
Ī	FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
Ī	LED SIGNAL FACE, LENS COVER	EACH	12
Ī	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

* 100% COST TO THE VILLAGE OF CRESTWOOD

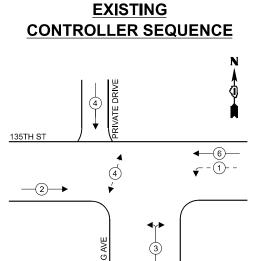
TS 4040 **IDOT CENTRACS**

COUNTY TOTAL SHEET NO.

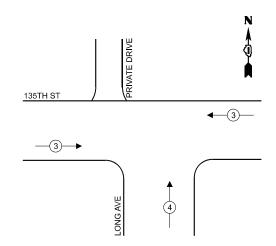
VAR 49 25

CONTRACT NO. 62W62

USER NAME = zhoerbert	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED -	DW	REVISED -
PLOT DATE = 6/24/2025	DATE -	6/11/2025	REVISED -



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

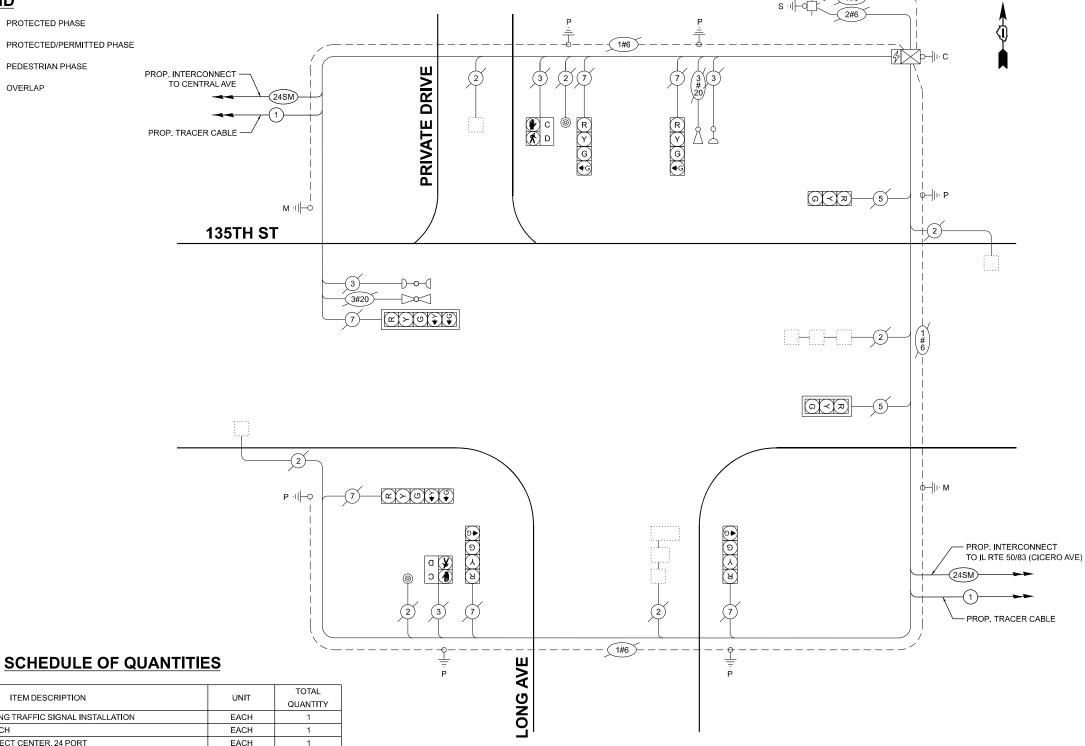
<u> </u>								
EQUIPMENT TYPE	QUANTITY	UNIT	TOTAL					
EQUIPMENT TIPE	QUANTITI	WATTAGE	WATTAGE					
SIGNAL HEAD 1 OR 3-SECTION	2	11	22					
4-SECTION	4	14	56					
5-SECTION	2	13	26					
PROGRAMMABLE 3-SECTION	-	22	-					
4-SECTION	-	32	-					
5-SECTION	-	28	-					
PEDESTRIAN SIGNAL	2	15	30					
CONTROLLER	1	150	150					
MASTER CONTROLLER	-	100	-					
UPS	1	25	25					
DETECTION RADAR OR VIDEO	-	20	-					
BLANK-OUT SIGN	-	25	-					
NETWORK SWITCH II OR III	1	35	35					
CELLULAR MODEM	-	15	-					
	TOTAL UF	344						
UPS CHARGING	1	225	225					
BATTERY HEATER MAT	1	180	180					
CABINET HEATER	1	200	200					
FLASHER	-	15	-					
LED STREET NAME SIGN	-	120	-					
LUMINAIRE	-	240	-					
TOTAL	949							



◆PROTECTED PHASE ← - (*)- - PROTECTED/PERMITTED PHASE

√- (*)- ► PEDESTRIAN PHASE

OVERLAP OVERLAP



CABLE PLAN

ITEM DESCRIPTION MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION LAYER II (DATALINK) SWITCH FIBER OPTIC INTERCONNECT CENTER, 24 PORT EACH RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2 EACH

ENERGY COSTS TO:

VILLAGE OF CRESTWOOD

13800 S CICERO AVE. CRESTWOOD, IL 60418

ENERGY SUPPLY:

CONTACT: PAUL EDWARDS

PHONE: (773)-573-8637

COMPANY: COMED CRESTWOOD & UNIVERSITY PARK REGION

ACCOUNT NUMBER: METER NUMBER:

STATE OF ILLINOIS

ABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 135TH ST AND LONG AVE SHEET 5 OF 11 SHEETS STA. TO STA.									
	SHEET	5	OF	11	SHEETS	STA.		TO STA.	

	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
₹	2023-939-N, TS	VAR	49	26
		CONTRACT	NO. 62	W62
	ILLINOIS FED AL	D PPO IECT		

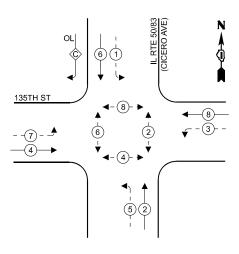
IDOT CENTRACS

TS 4030

DESIGNED - ZH REVISED -DRAWN - RG REVISED -REVISED DATE - 6/11/2025 REVISED -

DEPARTMENT OF TRANSPORTATION

EXISTING CONTROLLER SEQUENCE



LEGEND

◆ * PROTECTED PHASE

PROTECTED/PERMITTED PHASE

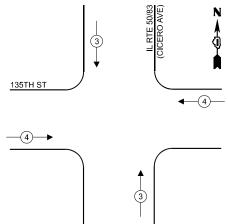
PEDESTRIAN PHASE

*OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP PERMISSIVE PROTECTED LETTER PHASE = 6 + 7

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





	OLIANITITY		
EQUIPMENT TYPE	QUANTITY	WATTAGE	WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	10	13	130
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
PTZ CAMERA	1	25	25
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	1	15	15
	S SIZING	650	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL S	SERVICE WIF	RE SIZING	1255
	4-SECTION 5-SECTION PROGRAMMABLE 3-SECTION 4-SECTION 6-SECTION PEDESTRIAN SIGNAL CONTROLLER MASTER CONTROLLER UPS DETECTION RADAR OR VIDEO PTZ CAMERA NETWORK SWITCH II OR III CELLULAR MODEM UPS CHARGING BATTERY HEATER MAT CABINET HEATER FLASHER LED STREET NAME SIGN LUMINAIRE	SIGNAL HEAD	SIGNAL HEAD

ENERGY COSTS TO:

VILLAGE OF CRESTWOOD

13800 S CICERO AVE.

CONTACT: PAUL EDWARDS

PHONE: (773)-573-8637 COMPANY: COMED CRESTWOOD & UNIVERSITY PARK REGION ACCOUNT NUMBER: 3104382000

ODLZ

USER NAME = dwiktorzak	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 6/10/2025	DATE	-	6/11/2025	REVISED -

IL RTE 50/83 (CICERO AVE) INTERCONNECT TO LONG AVE R 49 Y 4 A G 9 4 Y A 4 G B R Y G PROP. TRACER CABLE **135TH ST** (C) (M) (*)(*)(*)(*)(*) \bigcirc APS O O EX. INTERCONNECT - EX. TRACER CABLE EX. INTERCONNECT EX. TRACER TO 137TH ST

SCHEDULE OF QUANTITIES

EX. SUPER R CABINET

CABLE PLAN (NOT TO SCALE)

TOTAL ITEM DESCRIPTION UNIT QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2 EACH

TS 2650 **IDOT CENTRACS FORMER ECON 69**

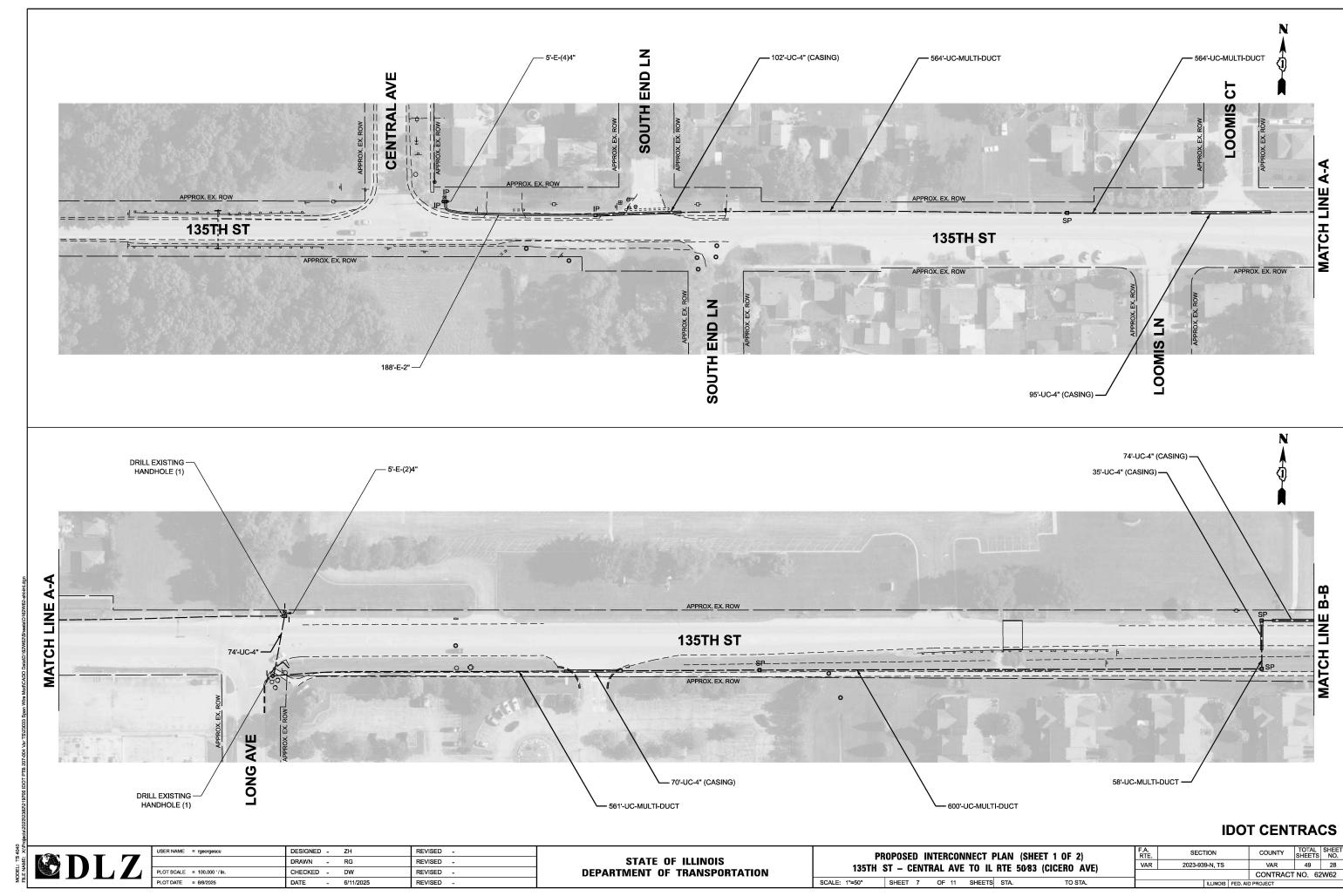
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM AND **EMERGENCY VEHICLE PREEMPTION SEQUENCE** IL RTE 50/83 (CICERO AVE) AND 135TH ST SHEET 6 OF 11 SHEETS STA.

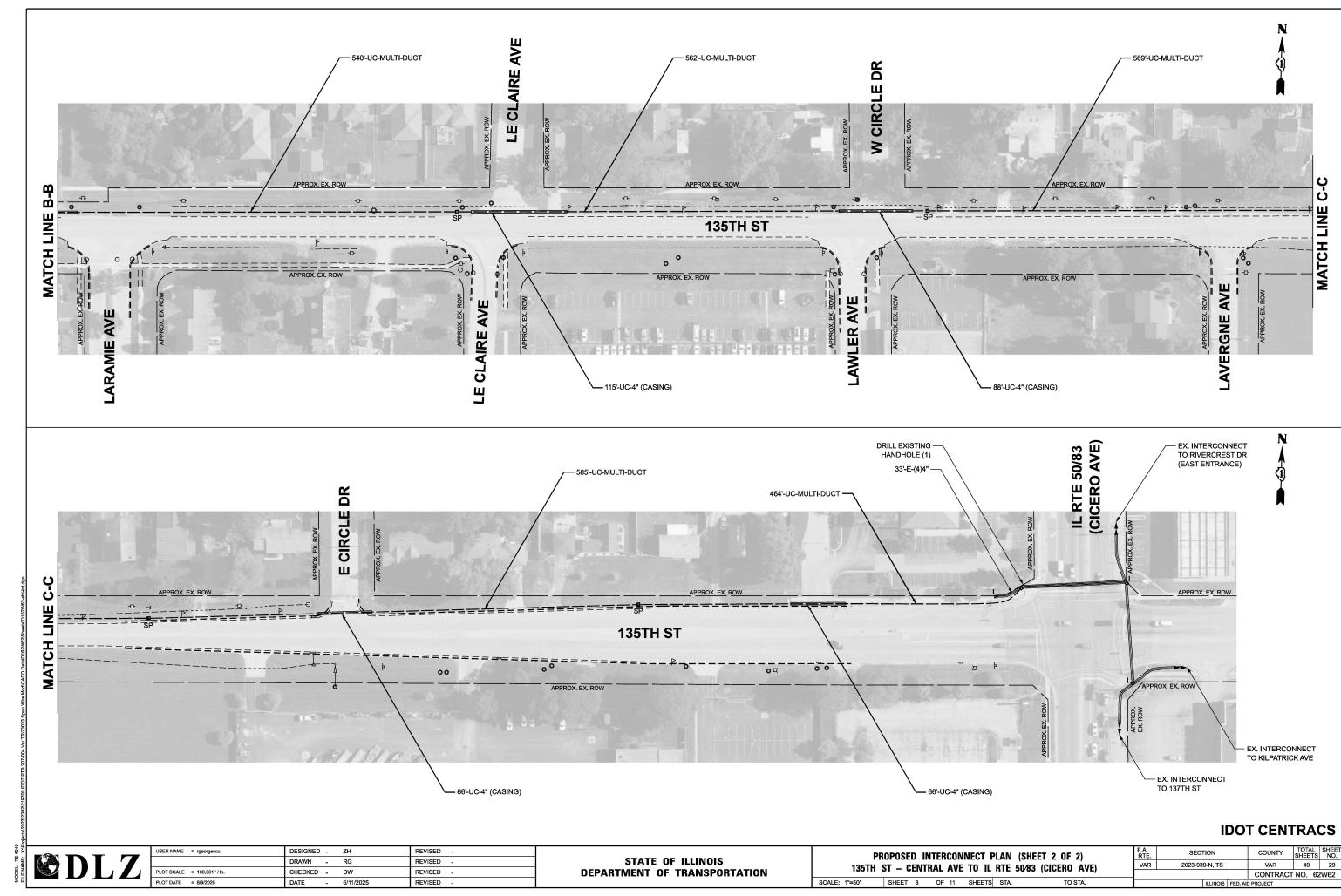
SECTION VAR 2023-939-N, TS VAR 49 27 CONTRACT NO. 62W62

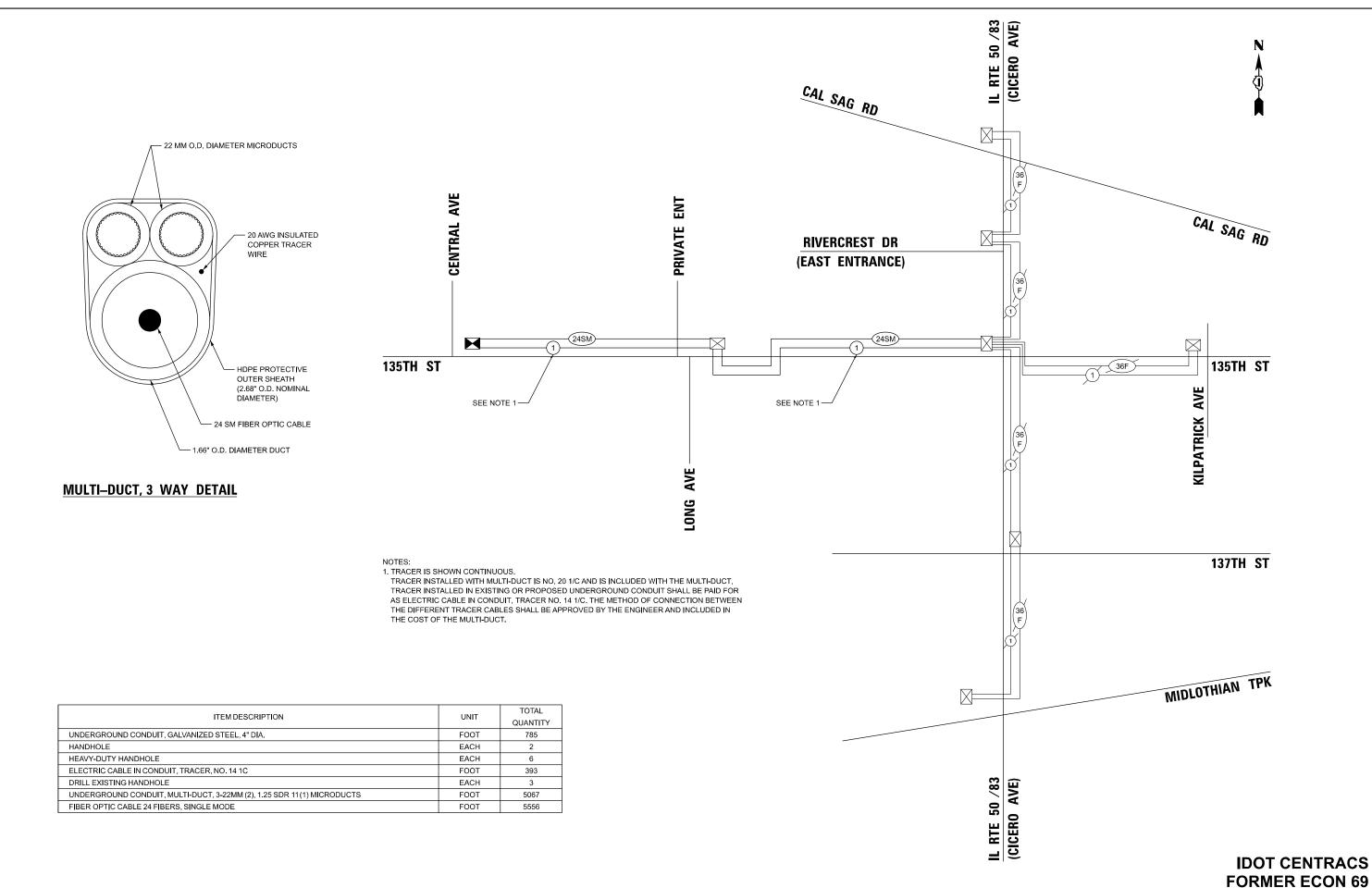
- EX. INTERCONNECT TO RIVERCREST DR

(EAST ENTRANCE)

EX. TRACER CABLE







© DLZ

 USER NAME
 = dwiktorzak
 DESIGNED
 ZH
 REVISED

 PLOT SCALE
 = 2.000 '/ in.
 CHECKED
 DW
 REVISED

 PLOT DATE
 = 6/10/2025
 DATE
 6/11/2025
 REVISED

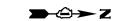
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

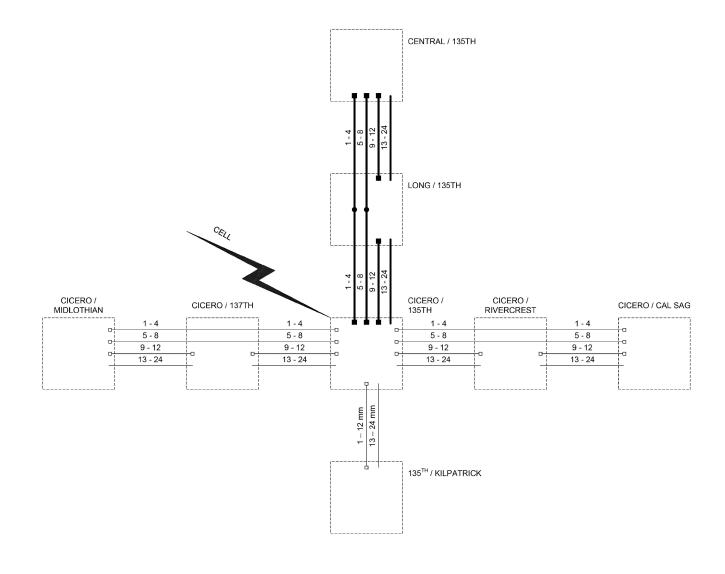
PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES

135TH ST — CENTRAL AVE TO IL RTE 50/83 (CICERO AVE)

| SHEET 9 OF 11 SHEETS STA. TO STA.

MODEL: 4040 - Location D FILE NAME: X:\Projects\2023\





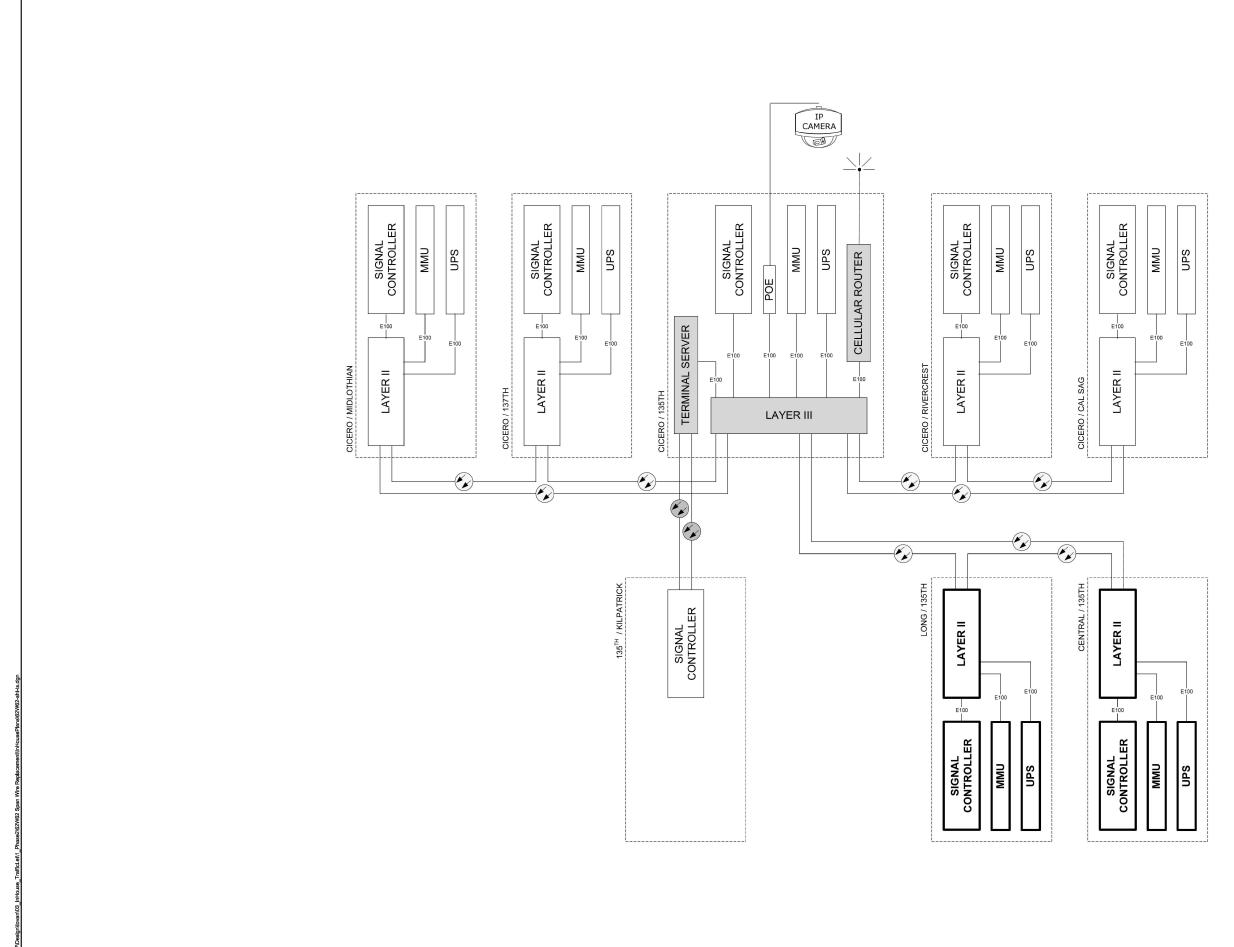
EXISTING CONNECTOR / EXISTING FIBER

EXISTING FUSION SPLICE / EXISTING FIBER NEW FUSION SPLICE / EXISTING FIBER NEW CONNECTOR / NEW FIBER NEW FUSION SPLICE / NEW FIBER

NEW CONNECTOR / EXISTING FIBER

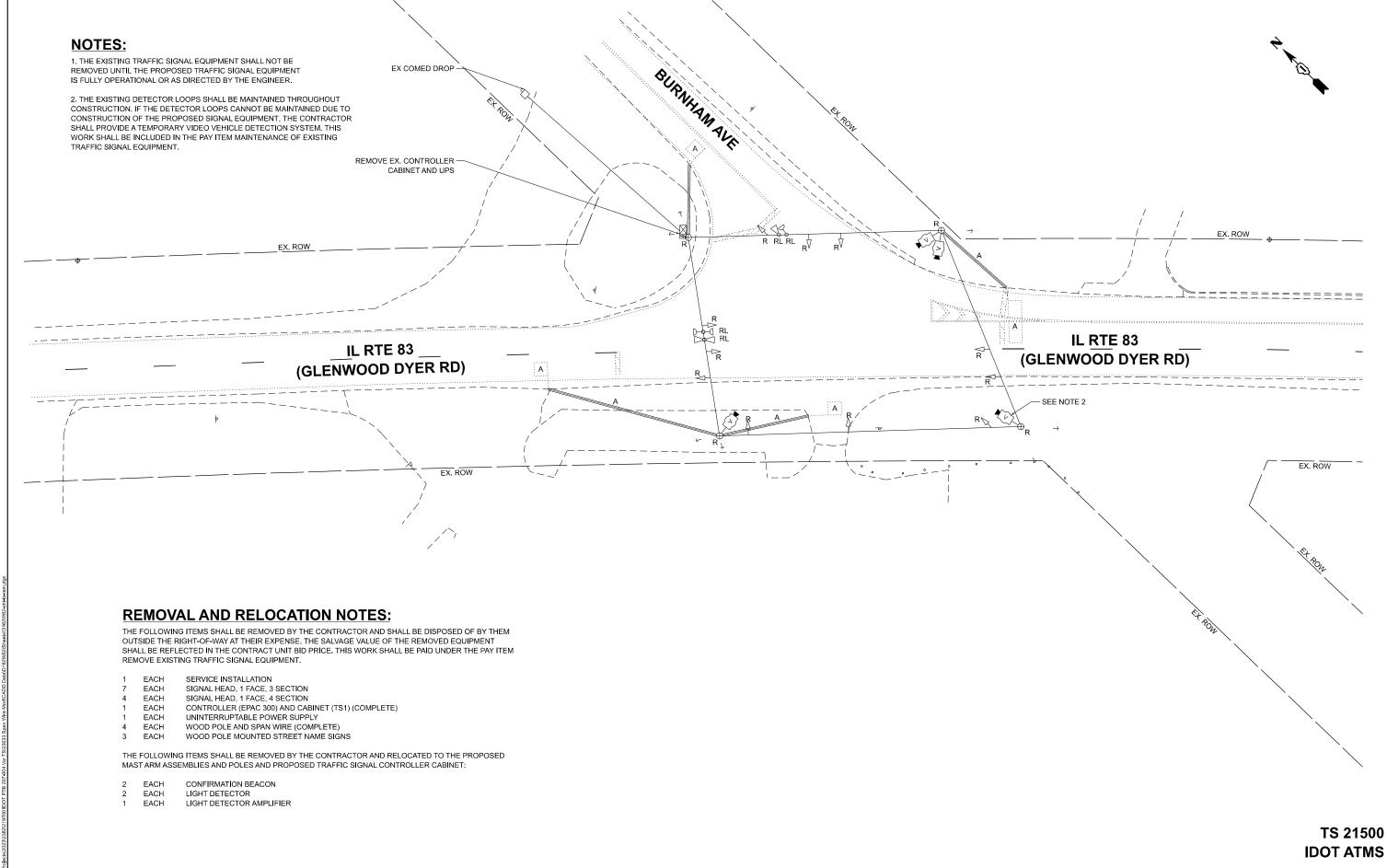
IDOT CENTRACS FORMER ECON 69

USER NAME = Iovan.Plascencia	DESIGNED - DG - PARSONS	REVISED -		FIBER SPLICING DIAGRAM		F.A. BTE	SECTION	COUNTY	TOTAL	SHEET
	DRAWN - DG - PARSONS	REVISED -	STATE OF ILLINOIS				2023-939-N,TS	VAR	49	31
PLOT SCALE = 40.0000 ' / In.	CHECKED - AR - PARSONS	REVISED -	DEPARTMENT OF TRANSPORTATION	135TH S	T - CENTRAL AVE TO IL RTE 50 /83 (CICERO AVE)		,	CONTRACT	T NO. 62V	V62
PLOT DATE = 6/20/2025	DATE - 6/20/2025	REVISED -		SCALE:	SHEET 10 OF 11 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT		



IDOT CENTRACS FORMER ECON 69

USER NAME = Iovan.Plascencia	DESIGNED - DG - PARSONS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CABINET DETAIL		SECTION	COUNTY	TOTAL S	HEET
	DRAWN - DG - PARSONS	REVISED -					2023-939-N.TS	VAR	49	32
PLOT SCALE = 40.0000 ' / In.	CHECKED - AR - PARSONS	REVISED -			IL RTE 50 /83 (CICERO AVE) / 135TH ST			R 2023-939-N,TS VAR 49 32 CONTRACT NO. 62W62		62
PLOT DATE = 6/20/2025	DATE - 6/20/2025	REVISED -		SCALE:	SHEET 11 OF 11 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



© DLZ

 USER NAME
 = dwiktbrzak
 DESIGNED
 ZH
 REVISED

 DRAWN
 RG
 REVISED

 PLOT SCALE
 = 40.000 '/ in.
 CHECKED
 DW
 REVISED

 PLOT DATE
 = 6/10/2025
 DATE
 6/11/2025
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN AND REMOVAL PLAN
IL RTE 83 (GLENWOOD DYER RD) AND BURNHAM AVE

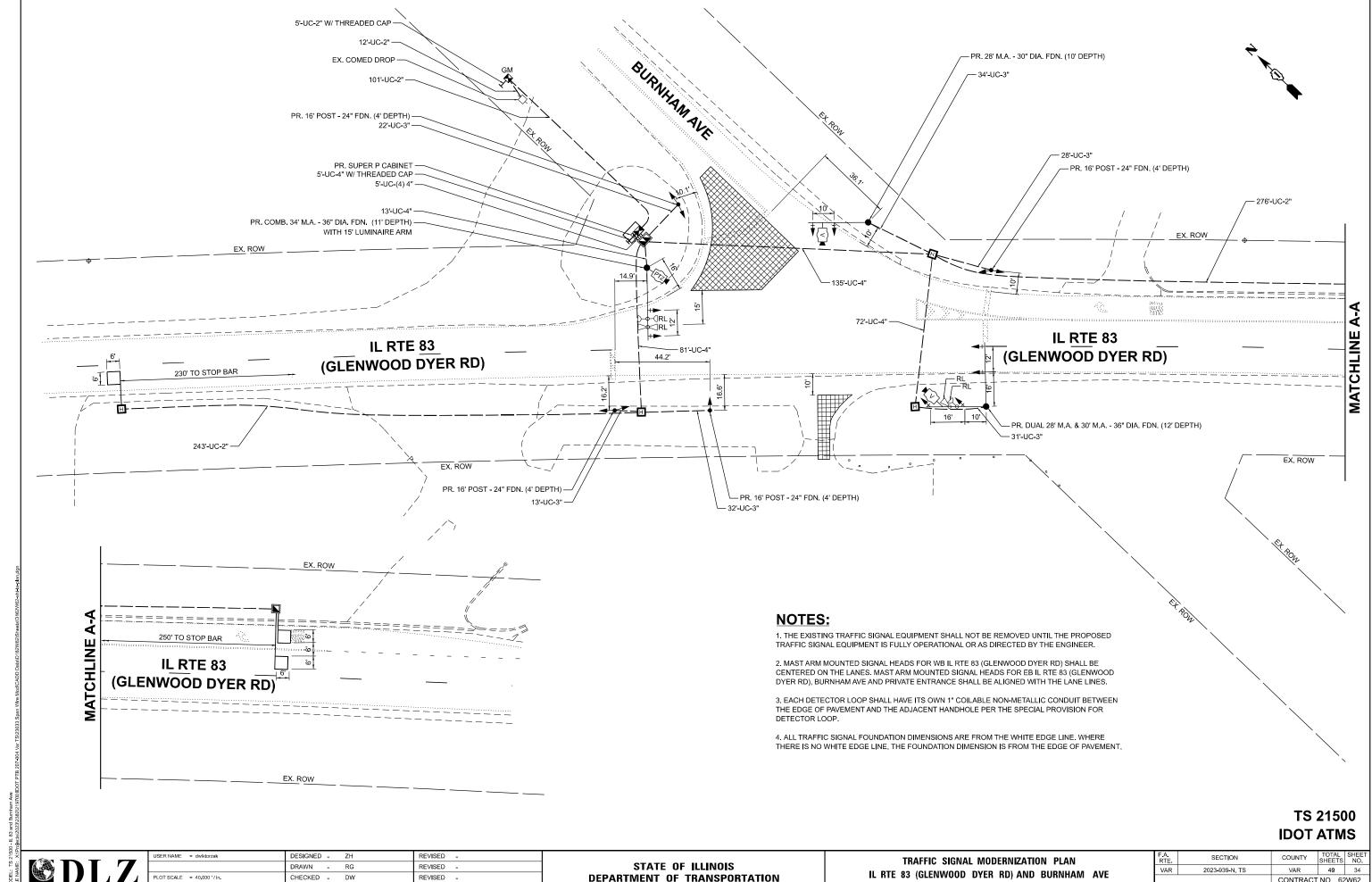
SCALE: 1"=20" SHEET 1 OF 5 SHEETS STA. TO STA.

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

 VAR
 2023-939-N, TS
 VAR
 49
 33

 CONTRACT NO. 62W62

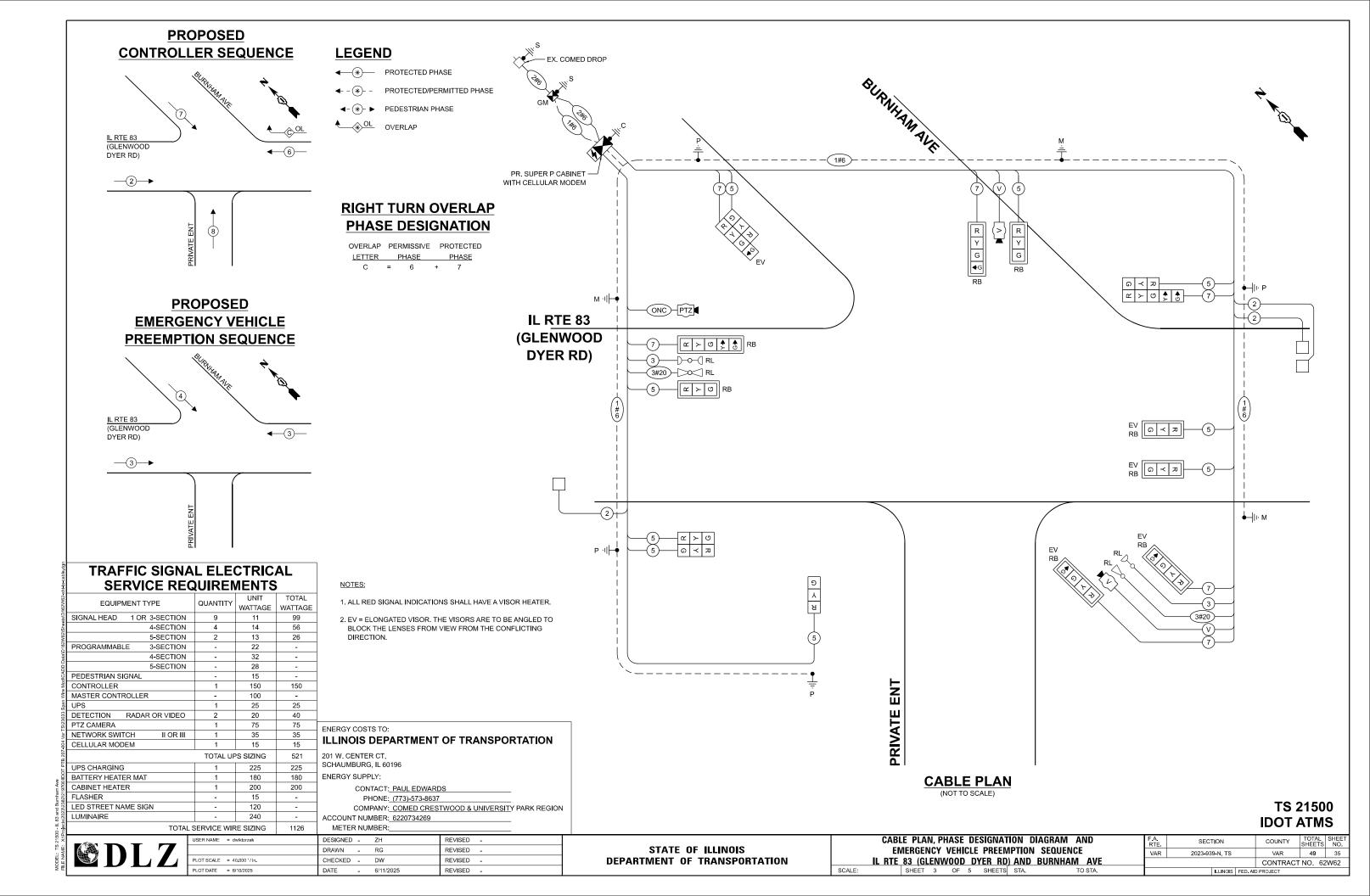
 ILLINOIS FED. AID PROJECT



DEPARTMENT OF TRANSPORTATION

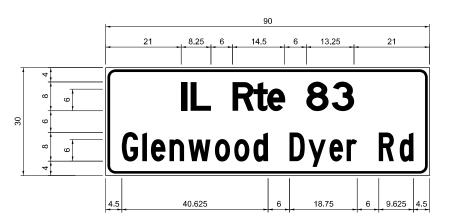
IL RTE 83 (GLENWOOD DYER RD) AND BURNHAM AVE SHEET 2 OF 5 SHEETS STA.

2023-939-N, TS 49 34 CONTRACT NO. 62W62

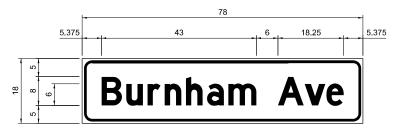


SIGN PANEL DETAIL - TYPE 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED	
TOP LINE - D	18.75	2	ZZ	1	
BOTTOM LINE - C	16.75	2			



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	9.75	2	ZZ	

NOTE:

FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTIT
SIGN PANEL - TYPE 2	SQFT	38.25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	637
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	160
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	326
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	400
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1690
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1240
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1255
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	160
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	695
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT, AND 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	23
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE I	FOOT	93
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	400
CELLULAR MODEM	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	95
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
LED SIGNAL FACE VISOR HEATER	EACH	15
TEMPORARY INFORMATION SIGNING	SQFT	51.4
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% COST TO THE VILLAGE OF LYNWOOD

TS 21500 IDOT ATMS



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED - DW	REVISED -
PLOT DATE = 6/24/2025	DATE - 6/11/2025	REVISED -

IL83 (GLENWOOD DYER) / BURNHAM

SIGNAL

CONTROLLER

BANHAM

IN SIGNAL

CONTROLLER

UPS

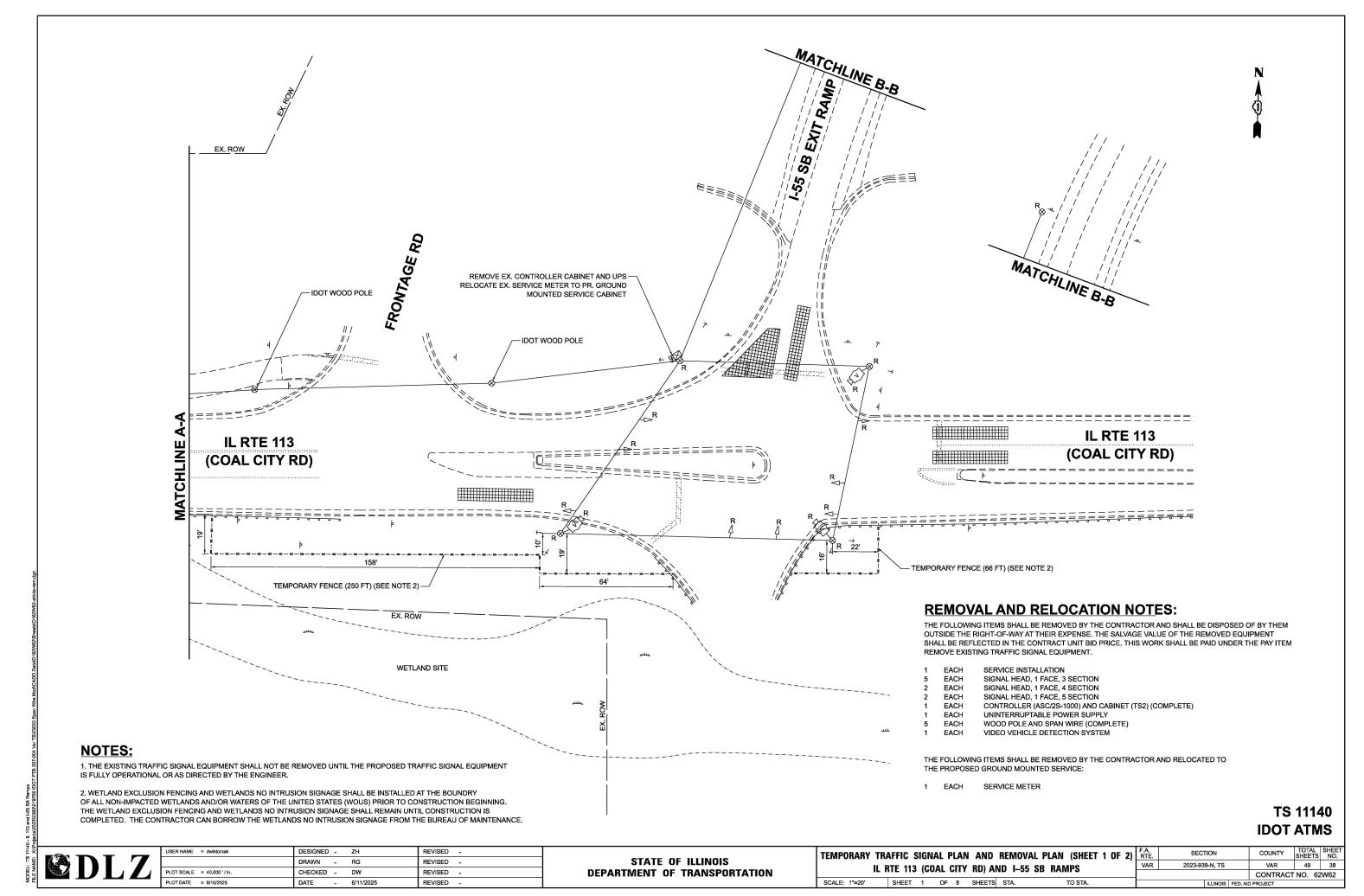
CELLULAR ROUTER

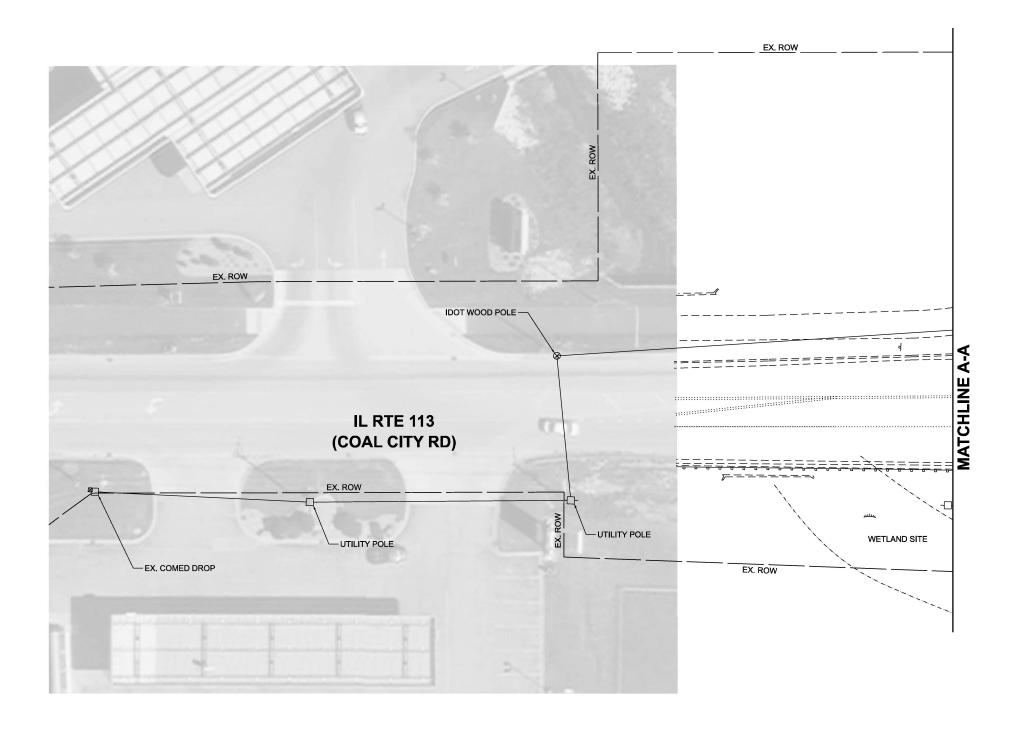
TS 21500 IDOT ATMS

USER NAME = Iovan.Plascencla	DESIGNED -	DG - PARSONS	REVISED -	
	DRAWN -	DG - PARSONS	REVISED -	
PLOT SCALE = 40.0000 ' / In.	CHECKED -	AR - PARSONS	REVISED -	
PLOT DATE = 6/20/2025	DATE -	6/20/2025	REVISED -	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			CA	BIN	IET DET	AIL			F.A. RTE.	SEC	TION		COUNTY	TOTAL SHEETS
RTF	RTE 83 (GLENWOOD DYER RD) AND BURNHAM AVE				VAR	2023-93	39-N,TS		VAR	49				
111 L	00 /01	LIAN	TOOL	, D	ILII IID	AND	DOMINIAN	AVL					CONTRACT	NO. 62
	SHEET	5	OF	5	SHEETS	STA.	TO	STA.			ILLINOIS	FED. A	ID PROJECT	





TS 11140 IDOT ATMS



DRAWN - RG REVISED - PLOT SCALE = 40,000 '/ ln. CHECKED - DW REVISED - PLOT DATE = 6/10/2025 DATE - 6/11/2025 REVISED -	USER NAME = rgeorgescu	DESIGNED - ZH	REVISED -
		DRAWN - RG	REVISED -
PLOT DATE = 6/10/2025 DATE - 6/11/2025 REVISED -	PLOT SCALE = 40.000 '/ In.	CHECKED - DW	REVISED -
	PLOT DATE = 6/10/2025	DATE - 6/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 TEMPORARY
 TRAFFIC
 SIGNAL
 PLAN
 AND
 REMOVAL
 PLAN
 (SHEET 2 0F 2)
 F.A. RTE.
 SECTION

 IL
 RTE 113
 (COAL CITY RD) AND I -55 SB RAMPS
 VAR
 2023-939-N, TS

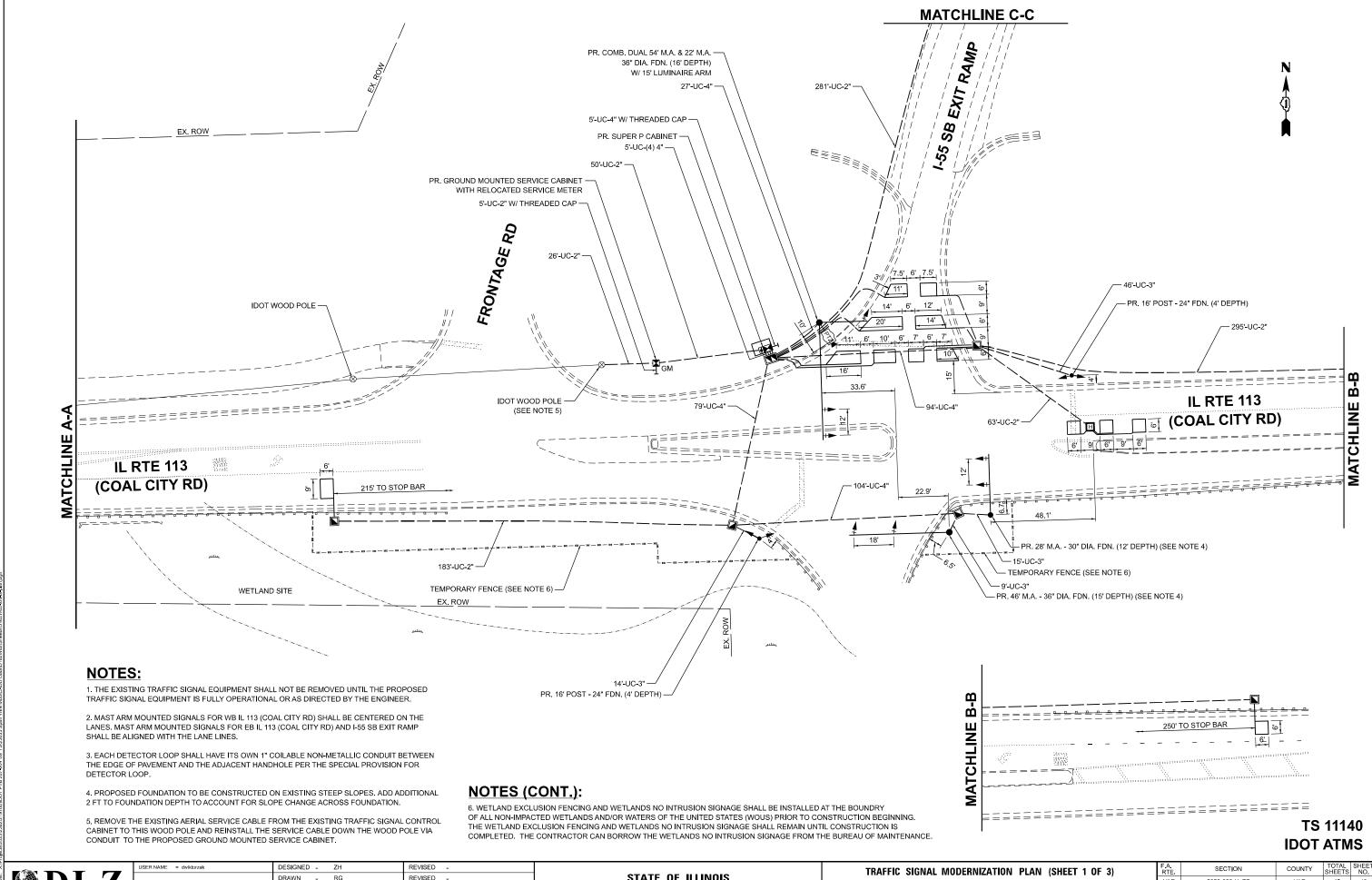
SCALE: 1"=20"

SHEET 2 0F 2)

SHEET 3 SECTION

TO STA.

TO STA.



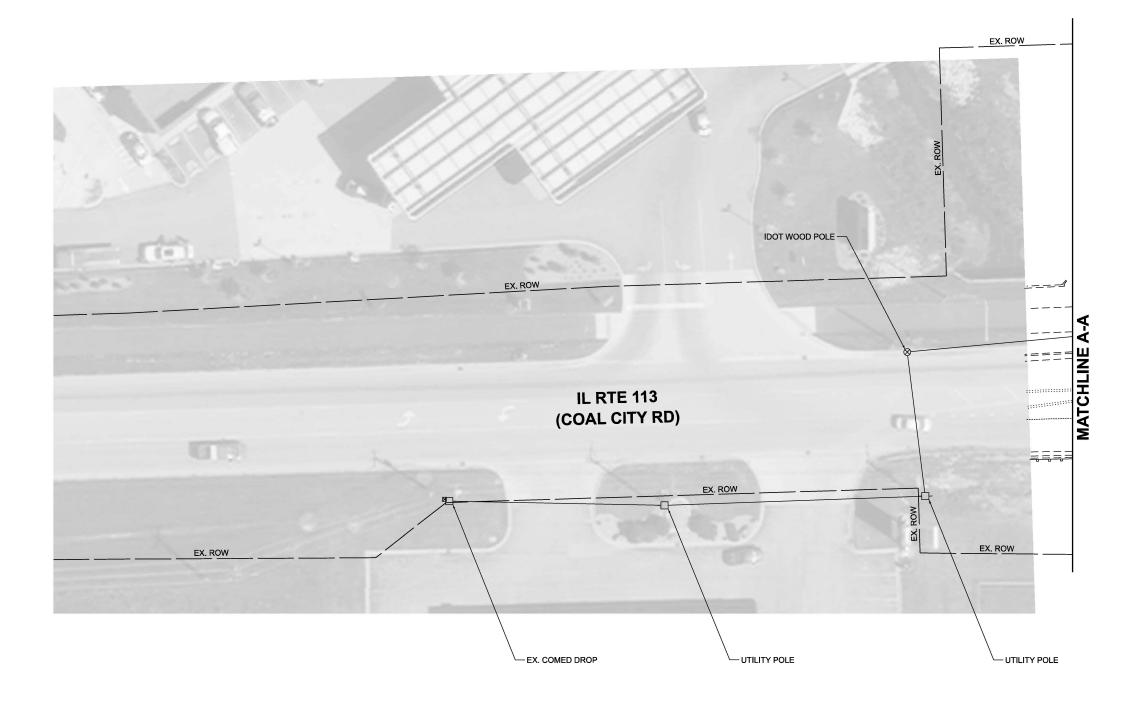
ODLZ

USER NAME = dwiktorzak	DESIGNED	-	ZH	REVISED	-
	DRAWN	-	RG	REVISED	-
PLOT SCALE = 40.000 / in.	CHECKED	-	DW	REVISED	-
PLOT DATE = 6/10/2025	DATE	-	6/11/2025	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRA	FFI	C SIGN/	AL IV	IODE	RNI	ZATION	PLAN	(SHEET 1 OF 3)
	IL F	RTE 113	(CO	AL C	H	RD) Al	ND I-55	SB RAMPS
SCALE: 1"=20'		SHEET	3	OF	8	SHEETS	STA.	TO STA.

RTE SECTION				COUNTY	SHEETS	NO.
VAR	VAR 2023-939-N, TS			VAR	49	40
				CONTRACT	NO. 6	2W62
		ILLINOIS	FED. AI	D PROJECT		



TS 11140 IDOT ATMS



USER NAME = rgeorgescu	DESIGNED - ZH	
	DRAWN - RG	
PLOT SCALE = 40.000 '/ In.	CHECKED - DW	
PLOT DATE = 6/10/2025	DATE - 6/11/2025	

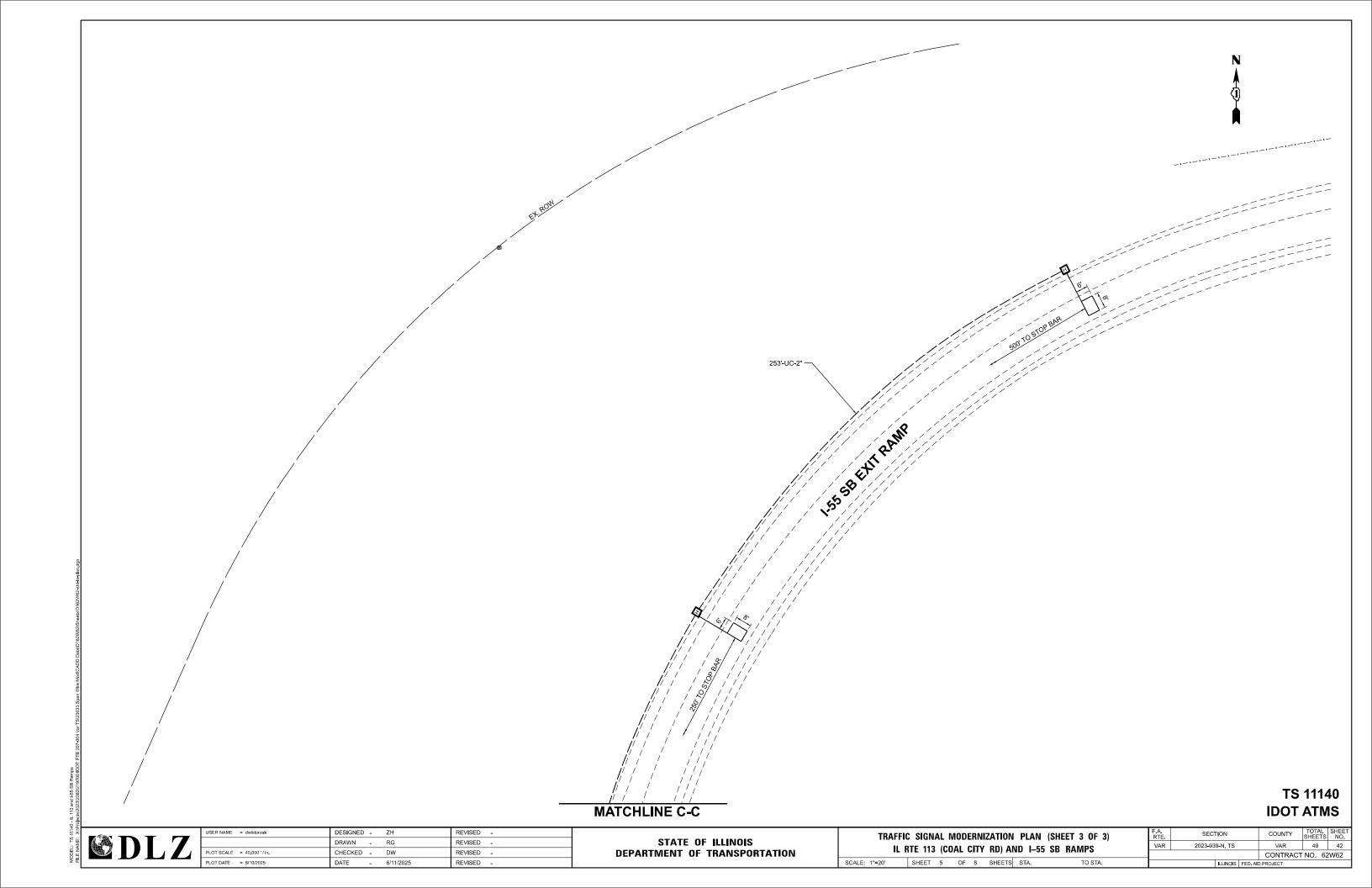
REVISED -

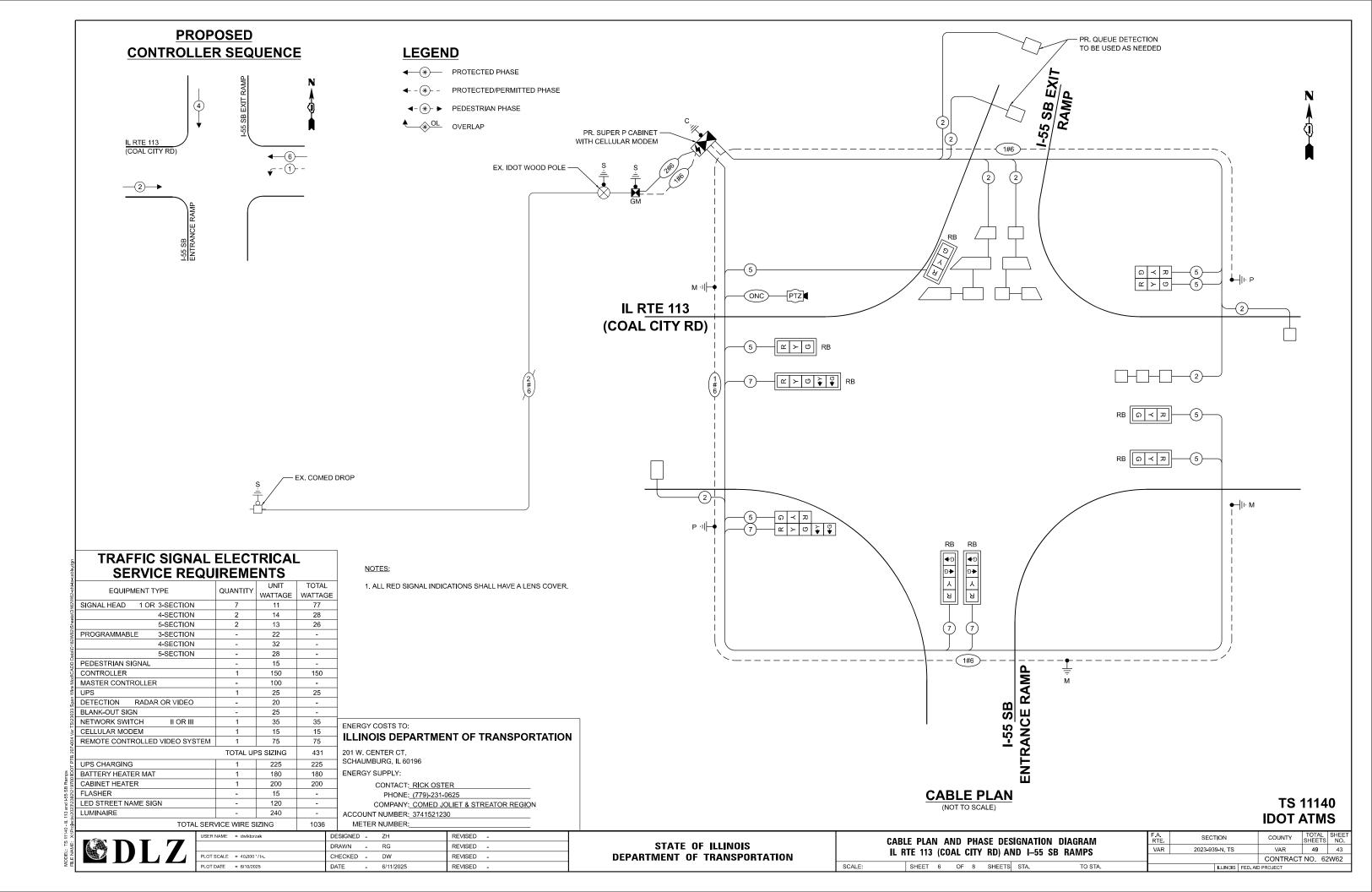
REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 3)

IL RTE 113 (COAL CITY RD) AND I-55 SB RAMPS

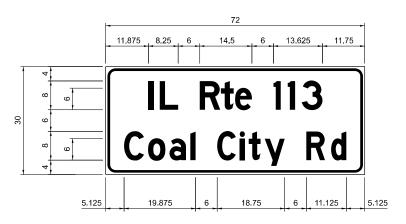
SCALE: 1"=20" SHEET 4 OF 8 SHEETS STA. TO STA.





SIGN PANEL DETAIL - TYPE 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	15	2	ZZ	1

FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
TEMPORARY FENCE	FOOT	316
SIGN PANEL - TYPE 2	SQ FT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1156
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	84
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	329
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1285
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	845
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1940
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	60
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	590
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	31
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	581
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	65
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CELLULAR MODEM	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	100
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TEMPORARY INFORMATION SIGNING	SQFT	51.4
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	11
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 11140 **IDOT ATMS**

USER NAME = zhoerbert	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED -	DW	REVISED -
PLOT DATE = 6/24/2025	DATE -	6/11/2025	REVISED -

: S:WPIDesignilovani03_InHouse_TraiffcLet\(1_Phase2\62W62\Span\Wne\Replacement\InHousePlans\62W62\sh |

USER NAME = Iovan.Plascencia

PLOT SCALE = 40.0000 ' / In.

PLOT DATE = 6/20/2025

DESIGNED - DG - PARSONS

DRAWN - DG - PARSONS

CHECKED - AR - PARSONS

DATE

- 6/20/2025

REVISED -

REVISED -

REVISED -

REVISED -

CABINET DETAIL

IL RTE 113 (COAL CITY RD) AND I-55 SB RAMPS

SHEET 8 OF 8 SHEETS STA.

SCALE:

TS 11140

IL113 (COAL CITY / 155 SB RAMPS

SIGNAL

CONTROLLER

BAND

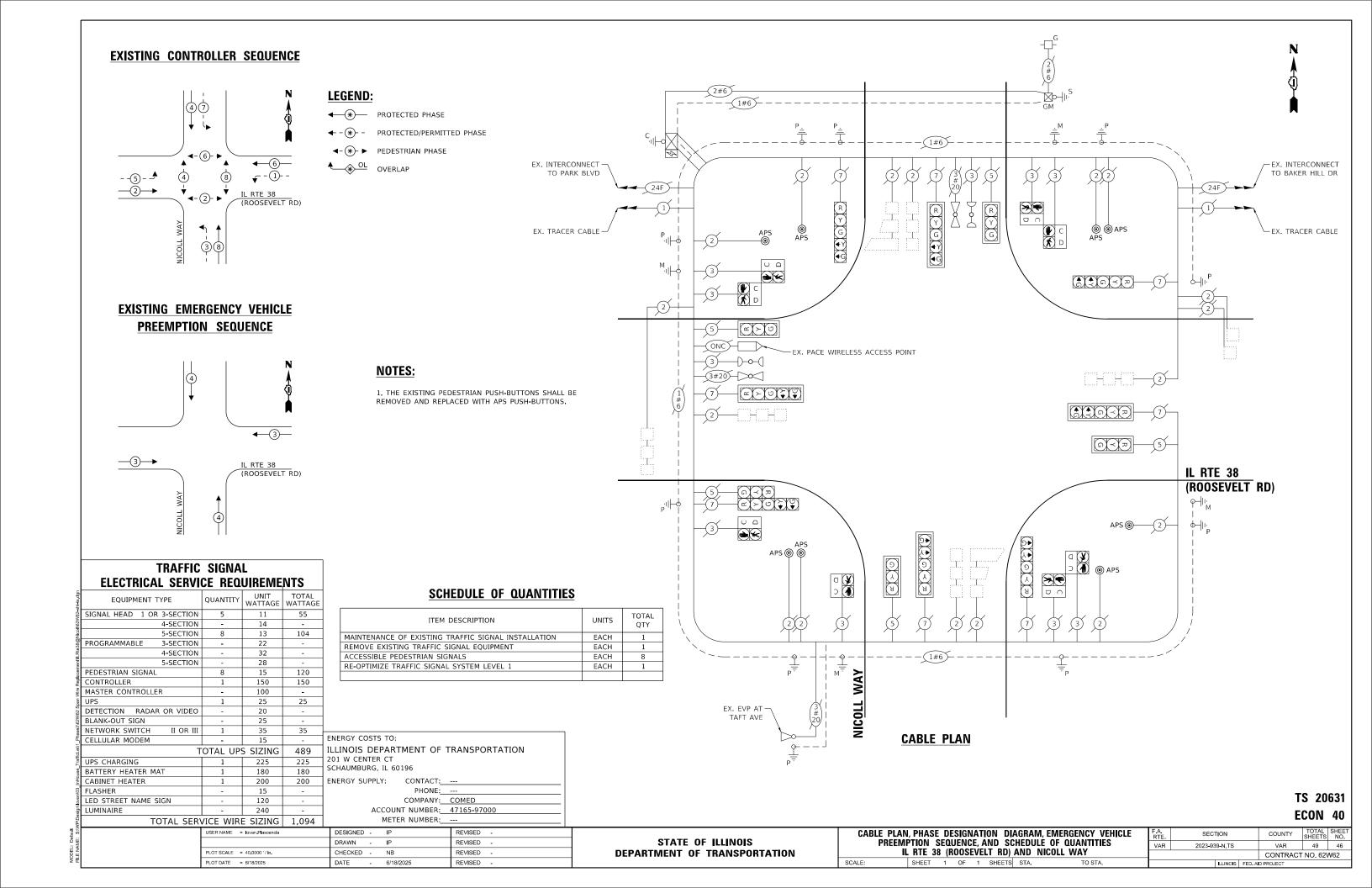
BAND

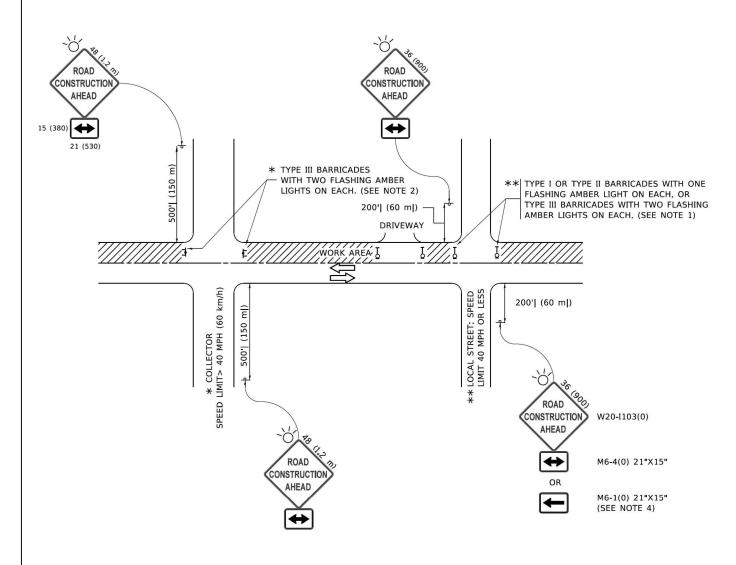
CONTROLLER

UPS

CELLULAR ROUTER

STATE OI	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION





NOTES:

- 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.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 b) 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
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
 4. 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.
- 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.

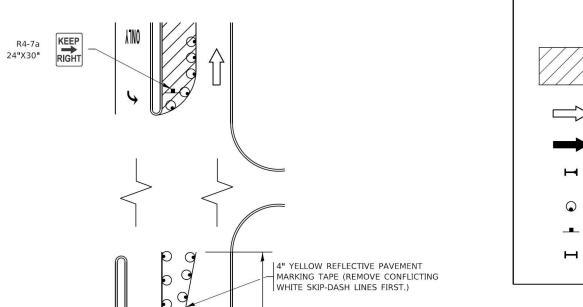
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-0
PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS									
	SHEET	OF	SHEETS	STA.	TO STA.				

F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHE
VAR	2023-939-N, TS	VAR	49	4	
	TC-10		CONTRACT	NO. 62	W6:

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



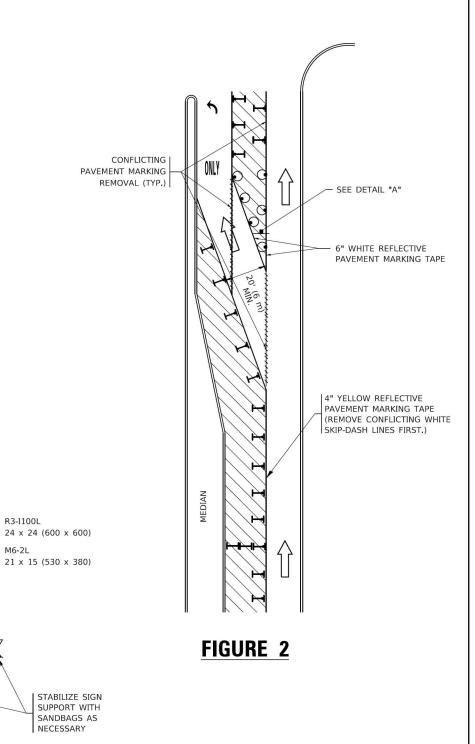
- ARROW BOARD

LEGEND WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

- 1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREOUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE



DETAIL A

M6-2L

TURN

LANE

All dimensions are in inches (millimeters) unless otherwise shown

USER NAME = footemj	DESIGNED	- T.	RAMMACHER	09-08-94	REVISED	-	R. BORO 09-14-09
	DRAWN	-	A. HOUSEH	11-07-95	REVISED	- A.	SCHUETZE 07-01-13
PLOT SCALE = 50.0000 ' / in.	CHECKED	-	A. HOUSEH	10-12-96	REVISED	- A.	SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE	- T.	RAMMACHER	01-06-00	REVISED	-	

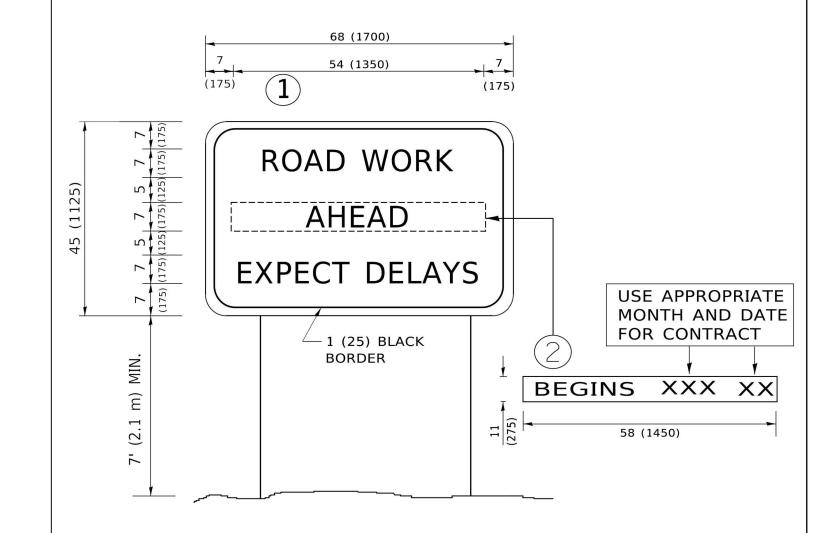
FIGURE 1

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS					F.A. SEC		
	(T0					VAR	2023-939-1
	,		· · · · ·	•	,		TC-14
	SHEET	OF	SHEETS	STA.	TO STA.		111

VAR 49 48 CONTRACT NO. 62W62

SEE DETAIL "A" -



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.

SHEET

- 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 = footemj	DESIGNED -	REVISED	 R. MIRS 09-15-97
	DRAWN -	REVISED	- R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED	-T. RAMMACHER 02-02-9
PLOT DATE = 3/4/2019	DATE -	REVISED	- C. JUCIUS 01-31-07

	ERIAL RO		
OF	SHEETS	STA	TO STA

RTE.	SEC.	TION	COUNTY	SHEETS	NO.	
VAR	2023-93	9-N, TS		VAR	49	49
	TC-22			CONTRACT	NO. 62	2W62
		ILLINOIS	FED. AII	PROJECT		