04-28-2023 LETTING ITEM 107

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN DISTRICT 1
CONTRACT NO. 62U46
SECTION: 2022 VAR TSM 2
PROJECT: STP-D0QW(194)
TROMBONE MAST ARM REPLACEMENT
COOK COUNTY

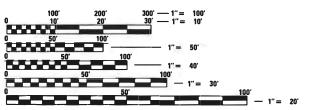
C-91-062-23

REGISTERED PROFESSIONAL ENGINEER

Applies to sheets 19-40.



Applies to sheets 41-46.



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 EXCAVATORS
1-800-892-0123
OR 811

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

CONTRACT NO. 62U46

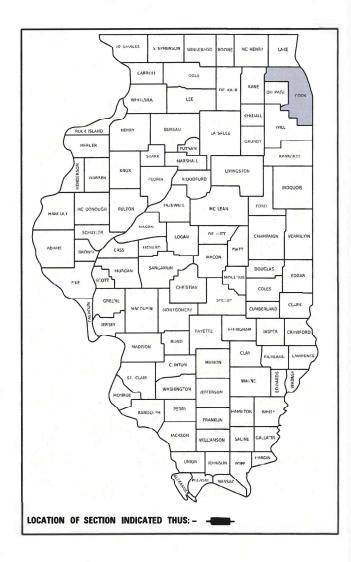
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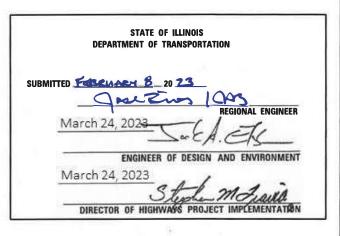
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FOR LOCATION MAPS SEE SHEETS NO. 3-4

VARIOUS TOWNSHIPS

D-91-045-23





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHT NO.		DESCRIPTION
1 2 3-4 5-10 11-17		COVER SHEET INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES LOCATION MAPS SUMMARY OF QUANTITIES DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05) DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS (TS-02)
SHT NO.	TS NO.	INTERSECTION NAME
19-22 23-26 27-30 31-36 37-40 41-46	2965 13005 12985 1675 2010 2120	IL RTE 62 (ALGONQUIN RD) AT GOEBBERT RD ALGONQUIN RD AT KOLPIN DR / SEYMOUR AVE TOUHY AVE AT MAPLE ST US RTE 45 (DES PLAINES RIVER RD) AT CENTRAL RD IL RTE 21 (MILWAUKEE AVE) AT DEARLOVE RD / GLENVIEW RD IL RTE 43 (HARLEM AVE) AT 25TH ST
SHT NO.		DESCRIPTION
47		TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
48		ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-08 001001-02 001006 701001-02 701006-05 701101-05	STANDARD SYMBOLS, ABREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE OFF-ROAD OPERATIONS MULITLANE. 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701501-06 701606-10	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06 701901-08	SIDEWALK, CORNER OR CROSSWALK CLOSURE TRAFFIC CONTROL DEVICES
	SIGN PANEL MOUNTING DETAIL
	HANDHOLES
	DOUBLE HANDHOLES UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-11 880006-01	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' CONCRETE FOUNDATION DETAILS TRAFFIC SIGNAL MOUNTING DETAILS DETECTOR LOOP INSTALLATIONS

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 THE TRAFFIC CONTROL SUPERVISOR AT KALPANA, KANNAN-HOSADURGA@ILLINOIS, GOV, 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.

ALL EXISTING R.O.W. SHOWN IS APPROXIMATE AND MAY NEED TO BE VERIFIED IN THE FIELD. ANY R.O.W. CONFLICTS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER.

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 ADA 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 INSURE ADA COMPLIANCE.

DIMENSIONED OFFSETS FOR THE TRAFFIC SIGNAL MAST ARMS AND POSTS 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.

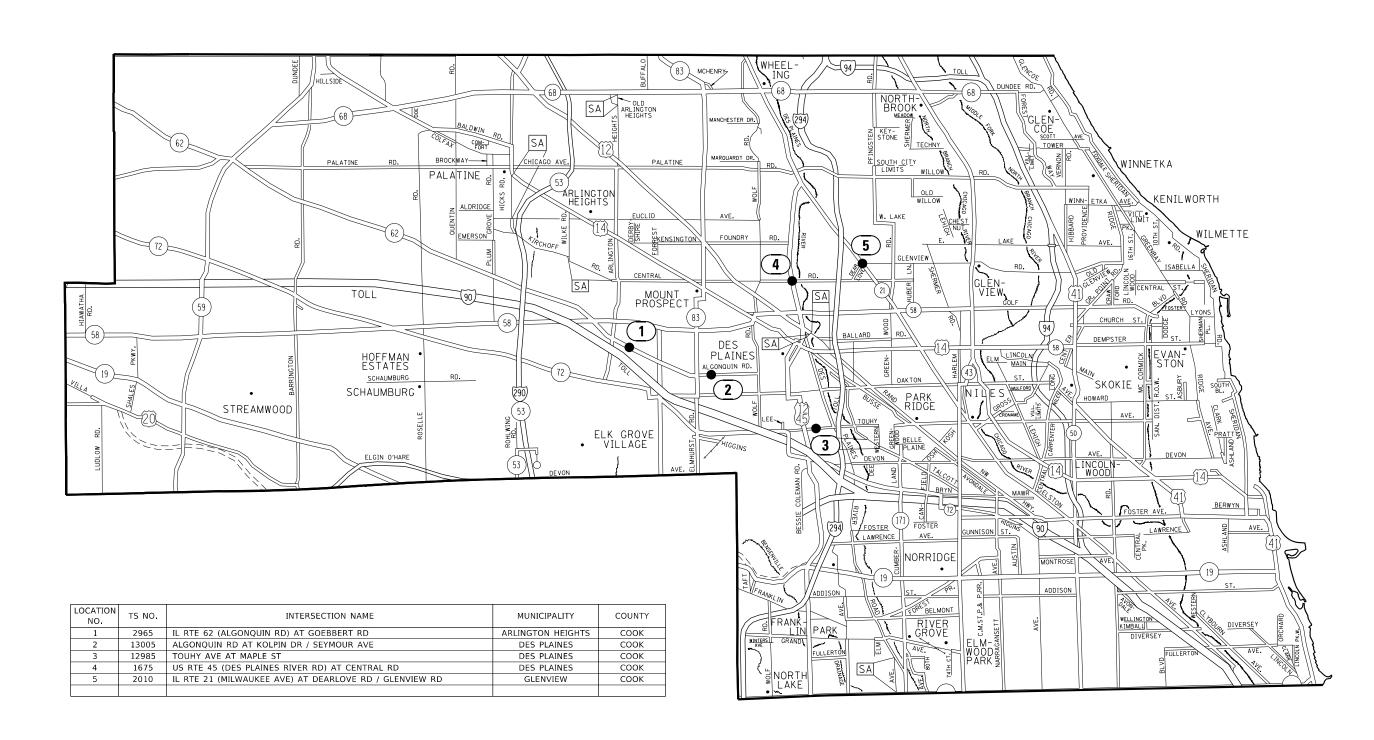
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY EXISTING SIGNS FROM THE MAST ARM ASSEMBLIES AND POSTS THAT ARE TO BE REMOVED AND TRANSFER THEM TO THE PROPOSED MAST ARM ASSEMBLIES AND POSTS PER THE STANDARD SPECIFICATIONS.

USER NAME = Iovan Plascencia	DESIGNED	-	IP	REVISED -	
	DRAWN	-	IP	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED	-	NB	REVISED -	
PLOT DATE = 2/8/2023	DATE	-	2/3/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

INDEX OF CHEETS HIGHWAY STANDARDS & SENERAL MOTES						F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTE					GENERAL NOTES	VAR	2022 VAR TSM 2	COOK	48	2
								CONTRACT	NO. 62	2U46
	SHEET	OF	SHEETS	STA.	TO STA.		TILLINOIS FED AL	D PROJECT		

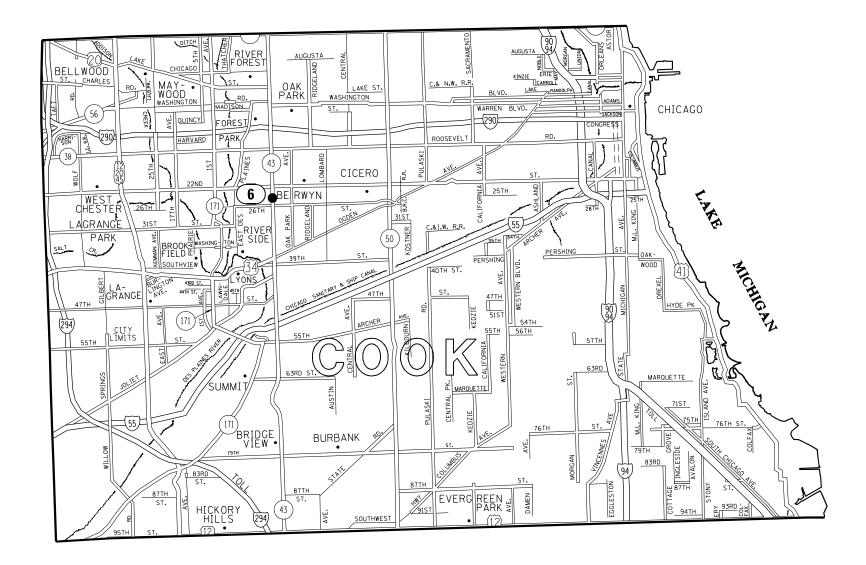


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	DRAWN	-	IP	REVISED -	
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STATE O	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

SCALE:

LOC	ATION N	/IAP (SHI	EET 1 OF	2)	F.A. RTE	SEC ⁻	ПОИ		COUNTY	TOTA
	MORTH	COOK C	OHNTV	,	VAR	2022 VA	R TSM 2	2	СООК	48
	NOITH	OUUK U	001411						CONTRACT	NO.
SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT	



L	OCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY	COUNTY
	6	2120	IL RTE 43 (HARLEM AVE) AT 25TH ST	NORTH RIVERSIDE / BERWYN	COOK

USER NAME = Iovan,Plascencia	DESIGNED	-	IP	REVISED	-	
	DRAWN	-	IP	REVISED	-	
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PLOT DATE = 2/9/2023	DATE	-	2/3/2023	REVISED	-	

STATI	E 01	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	LO	CATION N	IAP (SHE	ET 2 0	F 2)	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CENTRAL	CUUK I	VTINITY	•	VAR	2022 VAR TSM 2	соок	48	4
		OLIVITIAL	. COOK (JOUINTI				CONTRACT	NO. 62	2U46
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEI	. AID PROJECT		

				80% FED	CONS	STRUCTION CODE	
				20% FED 20% STATE COOK COUNTY			
CODE			TOTAL		TRA	FFIC SIGNALS	
NO.	ITEM	UNIT	QUANTITY			0021 URBAN	
						URBAN	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	65	65			
66000530	SOIL DISPOSAL ANALYSIS	EACH	6	6			
00900330	SOIL DISPOSAL AIVALISIS	EACH	1	0			
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			
			_	_			
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	18	18			
67100100	MOBILIZATION	L SUM	1	1			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1			
				_			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
70102033	TRAITIC CONTROL AND TROTECTION, STANDARD 701701	2 3014	_				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
72000100	CION DANIEL TYPE I	60.57	02.5	00.5			
72000100	SIGN PANEL - TYPE 1	SQ FT	82.5	82.5			
72000200	SIGN PANEL - TYPE 2	SQ FT	181.25	181.25			
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	790	790			
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	441	441			

F.A. SECTION

VAR 2022 VAR TSM 2 COUNTY TOTAL SHEET NO.

COOK 48 5 USER NAME = Iovan.Plascencia DESIGNED - IP REVISED SUMMARY OF QUANTITIES STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRAWN - IP REVISED (SHEET 1 OF 6) CONTRACT NO. 62U46 PLOT SCALE = 100.0000 ' / in. CHECKED - NB REVISED -PLOT DATE = 2/8/2023 DATE - 2/3/2023 REVISED -SCALE: SHEET OF SHEETS STA. TO STA.

				CONSTRUCTION CODE				
				80% FED 20% STATE COOK COUNTY				
CODE	1.750	11017	TOTAL		TRA	FFIC SIGNALS		
NO.	ITEM	UNIT	QUANTITY			URBAN		
						ONDAN		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,636	1,636				
81400100	HANDHOLE	EACH	4	4				
				_				
81400200	HEAVY-DUTY HANDHOLE	EACH	6	6				
81400300	DOUBLE HANDHOLE	EACH	1	1				
81400300	DOUBLE HANDHOLL	LACIT	1	1				
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	6				
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1	1				
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,030	3,030				
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,706	3,706				
07201245	FLECTRIC CARLE IN CONDUIT CICNAL NO. 14 FC	FOOT	12,348	12.240				
8/301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	1001	12,348	12,348				
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,569	3,569				
			-,	-,				
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3,240	3,240				
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,853	2,853				
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	13	13				
07700140	CTEFL MACT ARM ACCEMBLY AND ROLE 20 FT	FACU	1	4				
8//00140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1	1				
			1	ı	1		l	└ * SPECIALTY ITEM
								- S. ESIMETTIEN

USER NAME = Iovan.Plascencia	DESIGNED - IP	REVISED -			SI	UMMΔR	Y OF OU	IANTITIES		F.A. BTF	SECTION	С	COUNTY	TOTAL	SHEET
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PLOT DATE = 2/8/2023	DATE - 2/3/2023	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PRO	DJECT		

				CONSTRUCTION CODE					
				80% FED 20% STATE COOK COUNTY					
CODE	ITEM	LINIT	TOTAL				SIGNALS		
NO.	ITEM	UNIT	QUANTITY)21 BAN		
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1	1					
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2	2					
97700190	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2	2					
87700180	STEEL MAST ARM ASSEMBLE AND POLE, 20 FT.	EACH	2	Ζ					
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1	1					
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	4	4					
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1					
			_	_					
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2	2					
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1	1					
07700230	STEEL MAST ANNI ASSEMBLY AND POLE, 30 FT.	LACIT	1	1					
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1	1					
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1	1					
		+							
87702510	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT.	EACH	1	1					
97900100	CONCRETE FOUNDATION, TYPE A	FOOT	28	28					
0/000100	CONCRETE FOUNDATION, TIPE A		20	20					
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	181.5	181.5					
		+							
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	38	38					
	USER MAME - Jovan Placencia DESIGNED ID REVISED							F.A.	TION COUNTY TOTA

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 3 OF 6)

SHEET OF SHEETS STA.

TO STA.

SCALE:

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

VAR 2022 VAR TSM 2 COOK 48 7

CONTRACT NO. 62 U46

					CONSTRUCTION CODE
				80% FED 20% STATE COOK COUNTY	
CODE	I TEM	LINIT	TOTAL		TRAFFIC SIGNALS
NO.	ITEM	UNIT	QUANTITY		0021 URBAN
07000000	DRIVE EVERTING MANDIAGE			66	
87900200	DRILL EXISTING HANDHOLE	EACH	66	66	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	46	46	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	32	32	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	12	12	
00070440					
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	14	14	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	22	22	
00000410	TRAFFIC CICNAL PACKRIATE LOUVERED FORMED BLACTIC	FACU		60	
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	60	60	
88500100	INDUCTIVE LOOP DETECTOR	EACH	12	12	
88600100	DETECTOR LOOP, TYPE I	FOOT	467	467	
30000100	DETECTOR COOT, THE I	1001		407	
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	5	
89502200	MODIFY EXISTING CONTROLLER	EACH	2	2	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	4	4	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9,043	9,043	
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	245	245	
				•	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES											
(SHEET 4 OF 6)											
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SCALE:

RTE. SECTION COUNTY TOTAL SHEETS NO.

VAR 2022 VAR TSM 2 COOK 48 8

CONTRACT NO. 62 U46

					CONSTRUCTION CODE
				80% FED 20% STATE COOK COUNTY	
CODE	ITEM	LINIT	TOTAL		TRAFFIC SIGNALS
NO.	ITEM	UNIT	QUANTITY		0021 URBAN
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	6	
90502290	REMOVE EXISTING HANDHOLE	EACH	5	5	
89302380	REMOVE EXISTING HANDHOLE	EACH		3	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	24	24	
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	820	820	
X0325922	CELLULAR MODEM	EACH	1	1	
			<u>-</u>	-	
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1	1	
V1400367	DEDECTRIAN CICNAL DOCT. 10 FT	FACIL		0	
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	9	9	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	6	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2	2	
X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1	1	
				-	
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1	
V0620210	DEMOVE AND DEDI ACE DATTERIES FOR UNINTERVIPTABLE DOWER SUPPLY EXTENDED	FACU	2	3	
^002U31U	REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	3	3	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	22	22	
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	36	36	
	1			I	
	IISER MAME = Invan Placencia DESIGNED ID REVISED				FA. SSCTON SOUNTY TOTAL

MODEL: Default FILE NAME: S:\WP\Design\Jovan\

 USER NAME
 = Iovan, Plascencia
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 PLOT SCALE
 = 100,0000 ° / in.
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 NB
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 PLOT DATE
 = 2/8/2023
 DATE
 2/3/2023
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES
(SHEET 5 OF 6)

SHEET OF SHEETS STA. TO STA.

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

VAR 2022 VAR TSM 2 COOK 48 9

CONTRACT NO. 62U46

CONSTRUCTION CODE 80% FED 20% STATE COOK COUNTY TRAFFIC SIGNALS TOTAL CODE UNIT ITEM 0021 QUANTITY NO. URBAN X8780402 | MODIFY EXISTING TYPE "D" FOUNDATION EACH 1 1 Z0030850 | TEMPORARY INFORMATION SIGNING SQ FT 308.4 308.4 Z0033044 | RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 EACH 3 3 Ø Z0076600 | TRAINEES HOUR 500 500 Ø Z0076604 TRAINEES - TRAINING PROGRAM GRADUATE HOUR 500 500 Ø 0042 USER NAME = Iovan.Plascencia DESIGNED - IP REVISED

REVISED DRAWN - IP PLOT SCALE = 100.0000 ' / in. CHECKED - NB REVISED PLOT DATE = 2/8/2023 DATE - 2/3/2023 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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

TO STA.

COUNTY TOTAL SHEET NO.

COOK 48 10 SECTION VAR 2022 VAR TSM 2 CONTRACT NO. 62U46

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

	EXISTING	<u>PROPOSED</u>	ITEM	<u>existing</u>	PROPOSED	<u>ITEM</u>	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y Y	R Y
COMMUNICATION CABINET	ECC	СС	HEAVY DUTY HANDHOLE					G G 4Y 4Y 4G
MASTER CONTROLLER	EMC	MC	-SQUARE -ROUND	H H	⊞ ⊕		←) ←) ← 0 ← 0 ← 0 ← 0	4 G 4 G P
MASTER MASTER CONTROLLER	ЕММС	ммд	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		RRR
UNINTERRUPTABLE POWER SUPPLY	4	9	JUNCTION BOX		•	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(P) POLE MOUNTED	- <u>-</u> -	- - -P	RAILROAD CANTILEVER MAST ARM	$X \longrightarrow X$	XeX X			G G G 4Y 4Y 4G 4G
SERVICE INSTALLATION			RAILROAD FLASHING SIGNAL	∑⊙ ∑	X⊕X		P RB	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G}\boxtimes^{GM}$	$\mathbf{M}^{G} \mathbf{M}^{GM}$	RAILROAD CROSSING GATE	X0X	X•X	PEDESTRIAN SIGNAL HEAD		
TELEPHONE CONNECTION	ET	Т	RAILROAD CROSSBUCK	否	*	AT RAILROAD INTERSECTIONS	(P)	**
STEEL MAST ARM ASSEMBLY AND POLE	O	•—	RAILROAD CONTROLLER CABINET			PEDESTRIAN SIGNAL HEAD	© C	₩ C
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			WITH COUNTDOWN TIMER		* D
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	о —	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST	0	 ● BM 	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
-(BM) BARREL MOUNTED - TEMPORARY			INTERSECTION ITEM	1	ΙP	ALL DETECTOR LOOP CABLE TO BE SHIELDED		
WOOD POLE	\otimes	•	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	
GUY WIRE	>	-	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
SIGNAL HEAD WITH BACKBLATE	<u> </u>	→	ABANDON ITEM		Α	NO. 14 1/C		
SIGNAL HEAD WITH BACKPLATE	+I> P P	+ > P + > P	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	— <u>C</u> —
SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION	-D' +D' ○D F OD FS	→ F → FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
-(FS) SOLAR POWERED		F FS FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	(6#18)	<u></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	⊚	⊚ ⊗ APS	PREFORMED DETECTOR LOOP	P P	P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		<u> 24F</u>
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	s s	s s		—(36F)—	—(36F)—
VIDEO DETECTION CAMERA	(V)	V ■	INTERSECTION AND SAMPLING					
RADAR/VIDEO DETECTION ZONE			(SYSTEM) DETECTOR QUEUE AND SAMPLING			GROUND ROD -(C) CONTROLLER	± ^C ± ^M ± ^P ± ^S	$\dot{\stackrel{-}{T}}^C \dot{\stackrel{-}{T}}^M \dot{\stackrel{-}{T}}^P \dot{\stackrel{-}{T}}^S$
PAN, TILT, ZOOM (PTZ) CAMERA	ETZ]	PTZ	(SYSTEM) DETECTOR	QS QS	QS QS	-(M) MAST ARM -(P) POST	0 0 0 0	
EMERGENCY VEHICLE LIGHT DETECTOR	₩	~	WIRELESS DETECTOR SENSOR	®	<u> </u>	-(S) SERVICE		
CONFIMATION BEACON	<i>⊶</i>	+	WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT	⊶ + - -	•+						
	ERR	RR						
WIRELESS INTERCONNECT RADIO REPEATER						ı		

MODEL: Default

JSER NAME = lovan Plascencia

PLOT DATE = 2/8/2023

DESIGNED - IP

DRAWN - IP

CHECKED - LP

DATE - 9/29/2016

REVISED REVISED REVISED REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

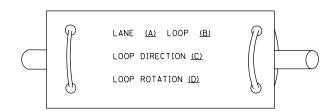
DISTRICT ONE											
S ⁻	TANDARD	TRAFFIC	SIGNA	L DESIGN	DETAILS						
SCALE: NONE	SHEET 1	OF 7	SHEETS	STA.	TO STA.						

F.A. RTE	SECT	ПОИ	COUNTY	TOTAL SHEETS	SHEET NO.	
VAR	2022 VA	R TSM 2	COOK	48	11	
	TS-05		CONTRACT	NO. 62	2U46	
		ILLINOIS	FED. A	D PROJECT		

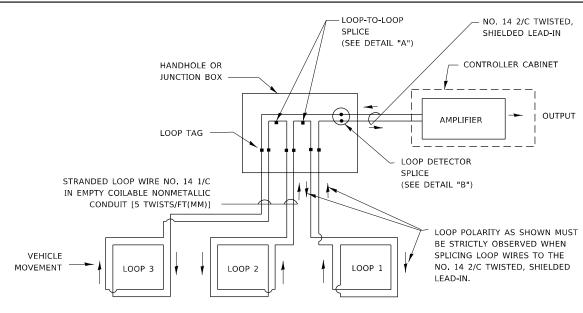
LOOP DETECTOR NOTES

- 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

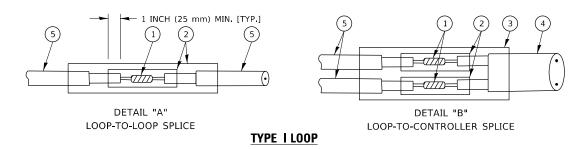


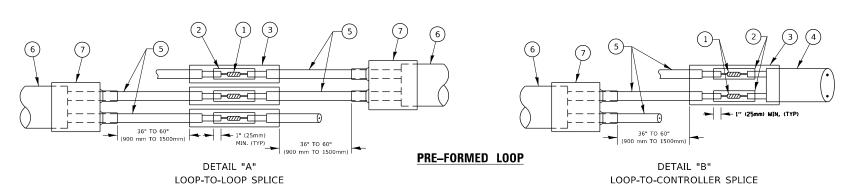
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

USER NAME = Iovan, Plascencia	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 2/8/2023	DATE -	REVISED -

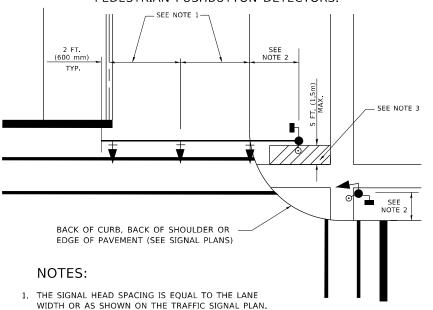
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DISTRICT ONE										
	STANDARD	TRAFFIC	SIGNAL	. DESIGN	DETAILS						
SCALE: NONE	SHEET 2	OF 7	SHEETS	STA.	TO STA.						

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

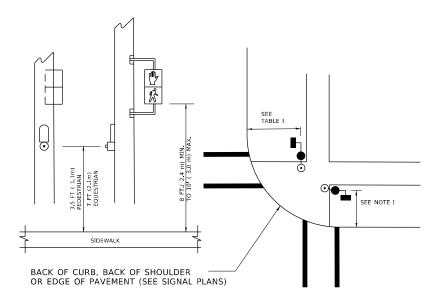
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



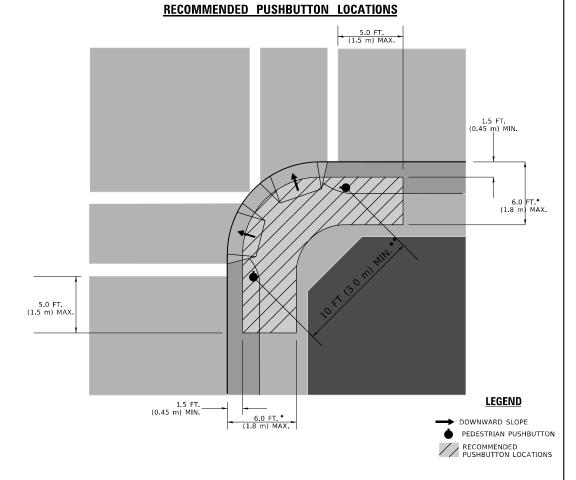
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE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

PEDESTRIAN SIGNAL POST AND 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:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

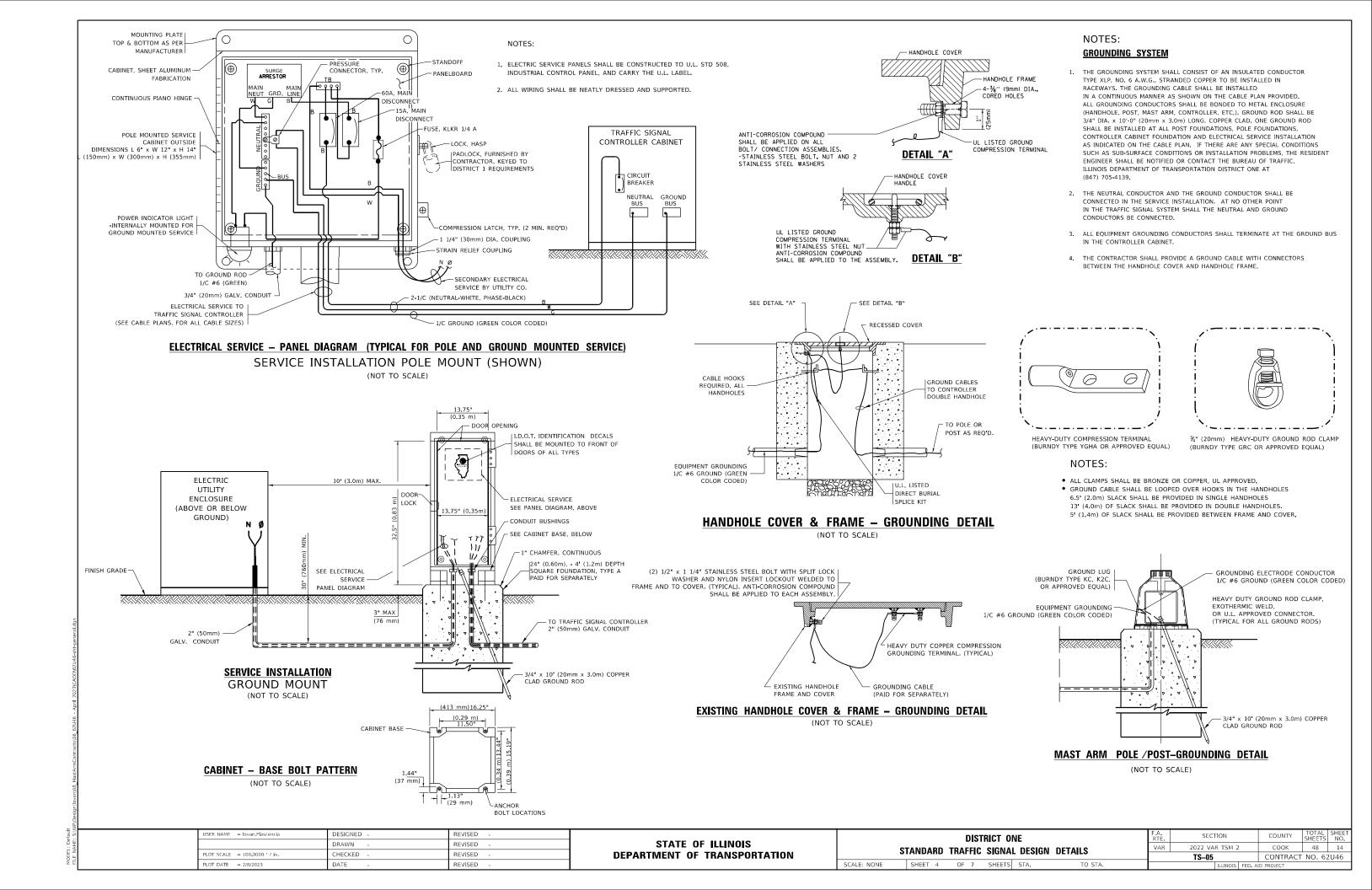
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2, MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

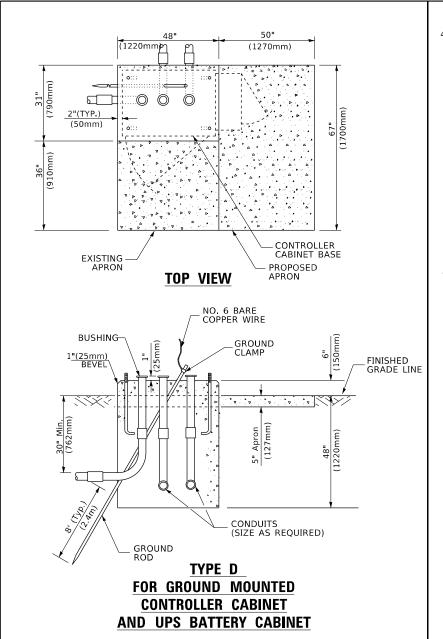
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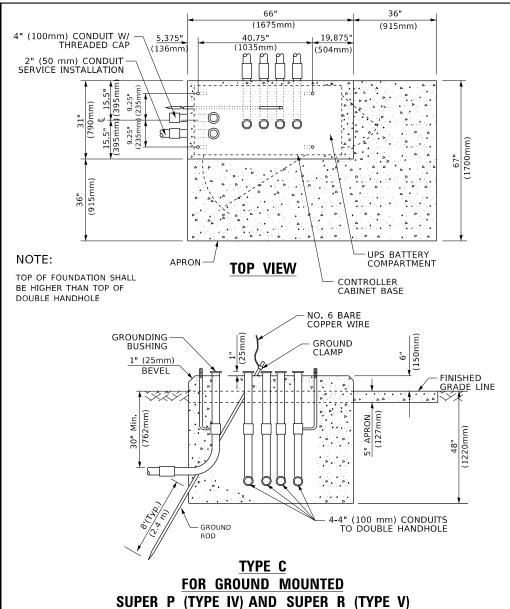
USER NAME = Iovan,Plascencia	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 2/8/2023	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

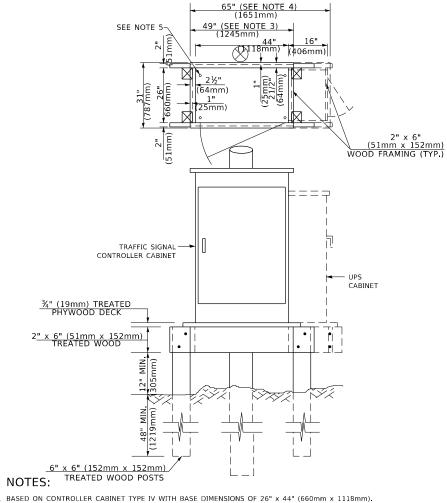
DISTRICT ONE	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR	2022 VAR TSM 2	COOK	48	13
STANDARD TRAFFIC STORAL DESIGN DETAILS		TS-05	CONTRACT	NO. 62	2U46
SHEET 3 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		







CONTROLLER CABINETS



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

TEMPORARY SIGNAL CONTROLLER **WOOD SUPPORT PLATFORM**

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

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

VERTICAL CABLE LENGTH

CA	BLE	SLA	CK

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

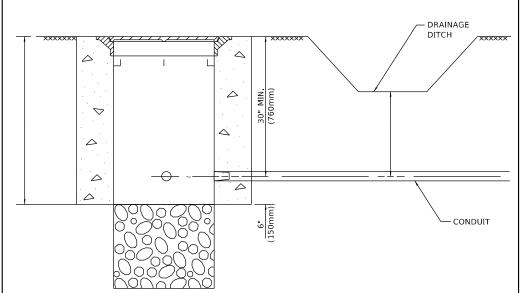
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	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)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

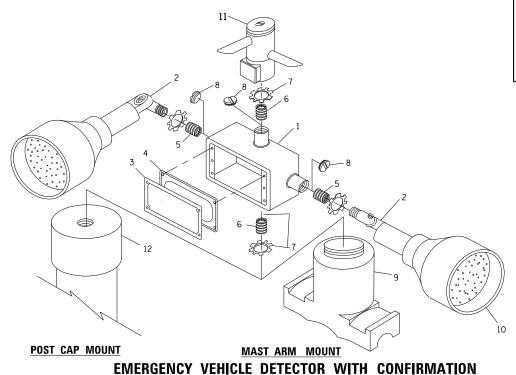
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	DRAWN -	REVISED -	STATE OF ILLINOIS	_		VAR	2022 VAR TSM 2	COOK	48 15
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	5	TANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRAC	T NO. 62U46
PLOT DATE = 2/8/2023	DATE -	REVISED -		SCALE: NONE	SHEET 5 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	D 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



BEACON MOUNTING DETAIL

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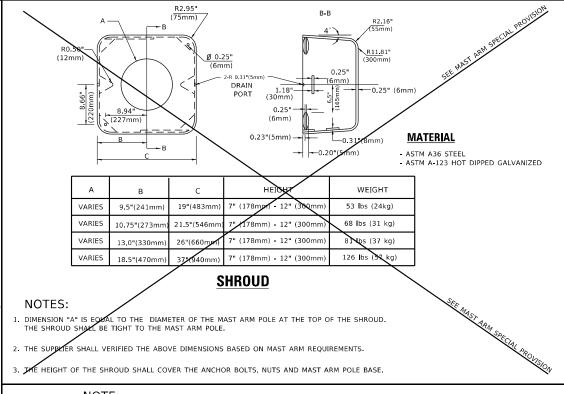
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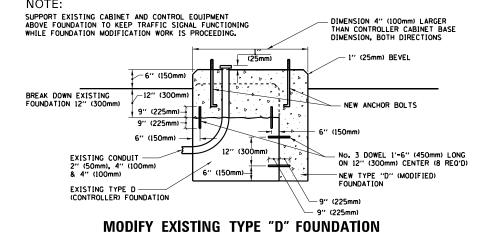
(1675mm) (915mm) 19.875" (1035mm) (504mm) $\overline{}$ 0 CONTROLLER CABINET BASE PROPOSED-**TOP VIEW** APRON -NO. 3 DOWEL 18" (450mm NO. 6 BARE COPPER WIRE LONG (8 REQ.) BUSHING-_GROUND CLAMP EXISTING-ANCHOR BOLTS FINISHED GRADE LINE 1"(25mm) BEVEL (300 mm)(300 mm)12" (300mm) (225mm) -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION (NOT TO SCALE)

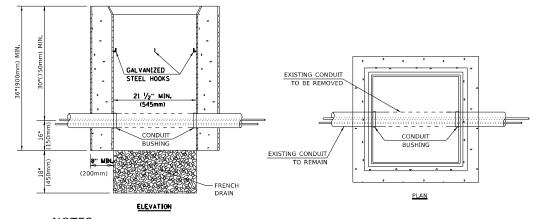
ITEM NO. IDENTIFICATION 1 OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 ¾"(19 mm) CLOSE NIPPLE 7 ¾"(19 mm) LOCKNUT 8 ¾"(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST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

NOTES:

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 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.







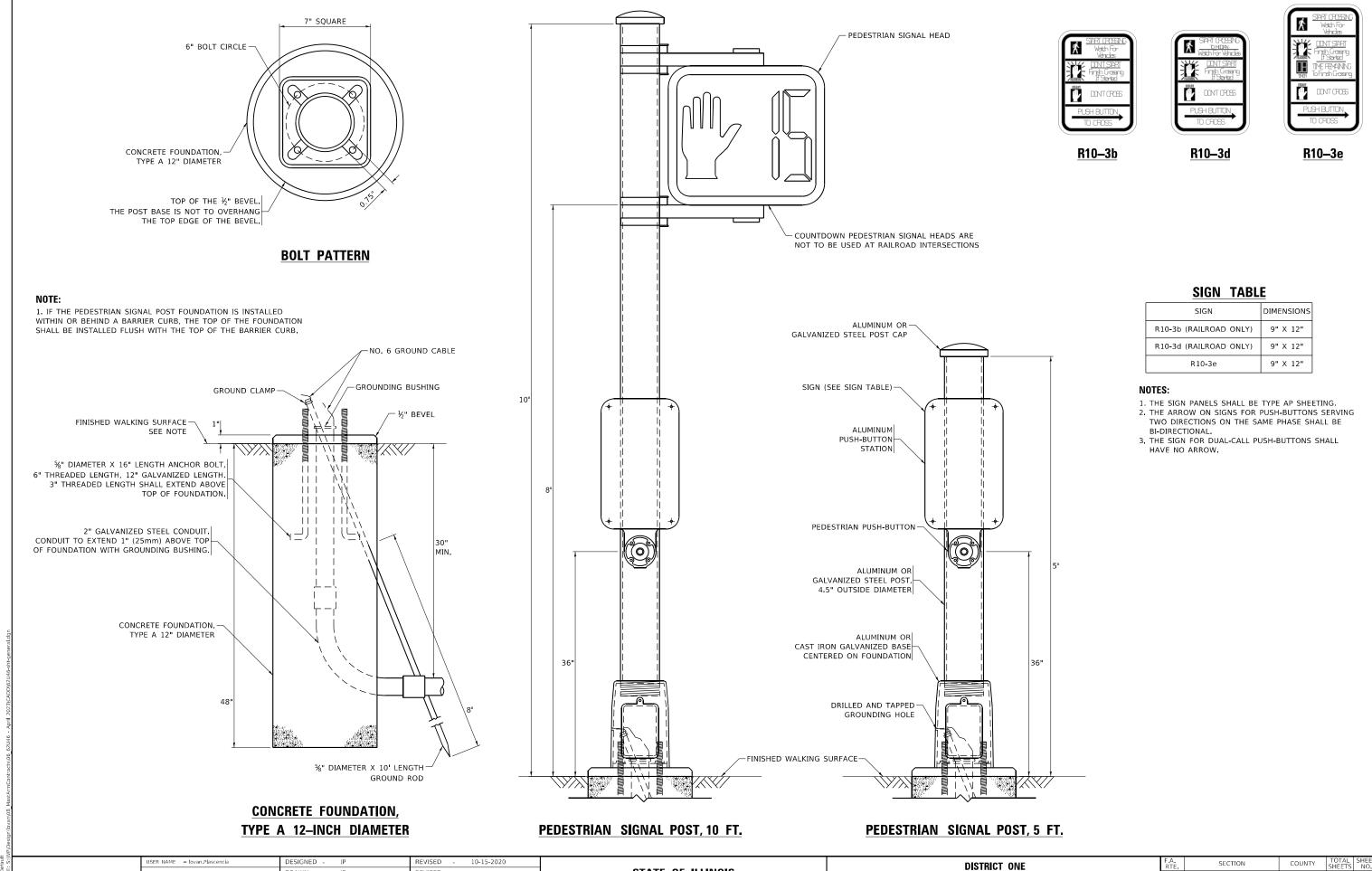
NOTES

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR	2022 VAR TSM 2	COOK	48	16
STANDAND THATTO SIGNAL DESIGN DETAILS		TS-05	CONTRACT	NO. 62	2U46
SHEET 6 OF 7 SHEETS STA. TO ST	Α.	ILLINOIS FED. A	D PROJECT		



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

VAR

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 7 OF 7 SHEETS STA.

2022 VAR TSM 2

COOK

48 17

CONTRACT NO. 62U46

MODEL: Default

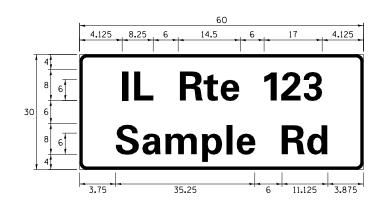
DRAWN

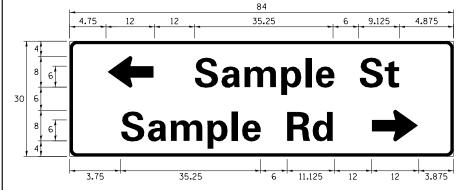
REVISED

REVISED

SIGN PANEL - TYPE 1 OR TYPE 2

3.75 35.25 6 11.125 3.875 Sample Rd





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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)
NAME	ADDREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	C†	8. 250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	ΙL	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	S†	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.
- 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'-O". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", 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'-O" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" 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.
- 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 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:

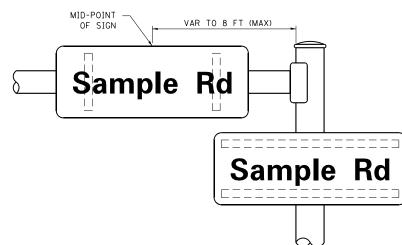
- J.O. HERBERT COMPANY, INC SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
MIDLOTHIAN, VA SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER

- WESTERN REMAC, INC. BRACKETS PART #HPN034 (UNIVERSAL)
WOODRIDGE, IL CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

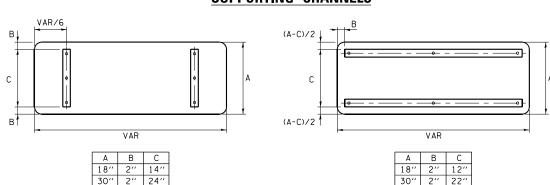
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



SCALE: NTS

STANDARD ALPHABETS SPACING CHART

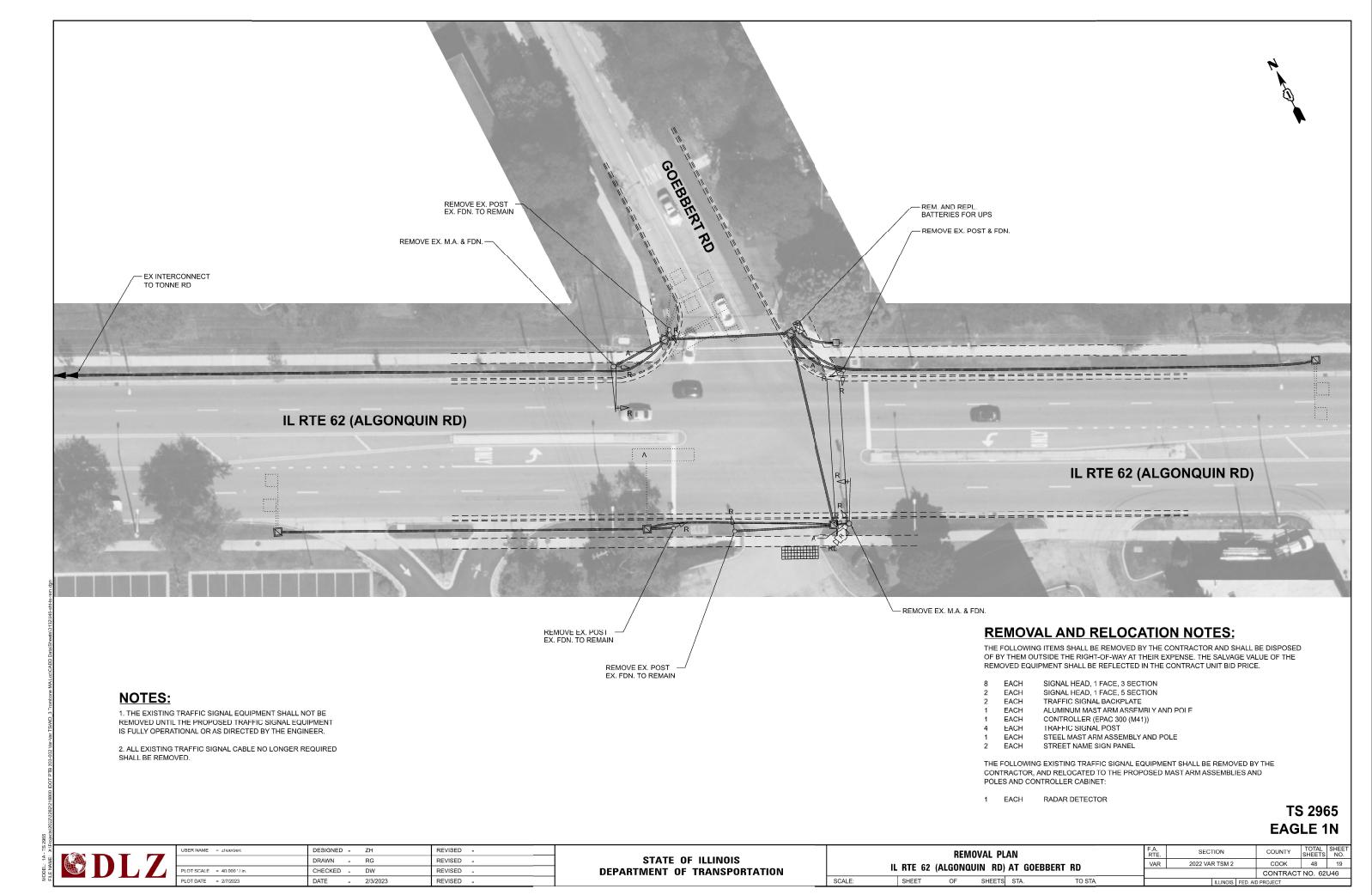
(8") UPPER CASE AND (6") LOWER CASE

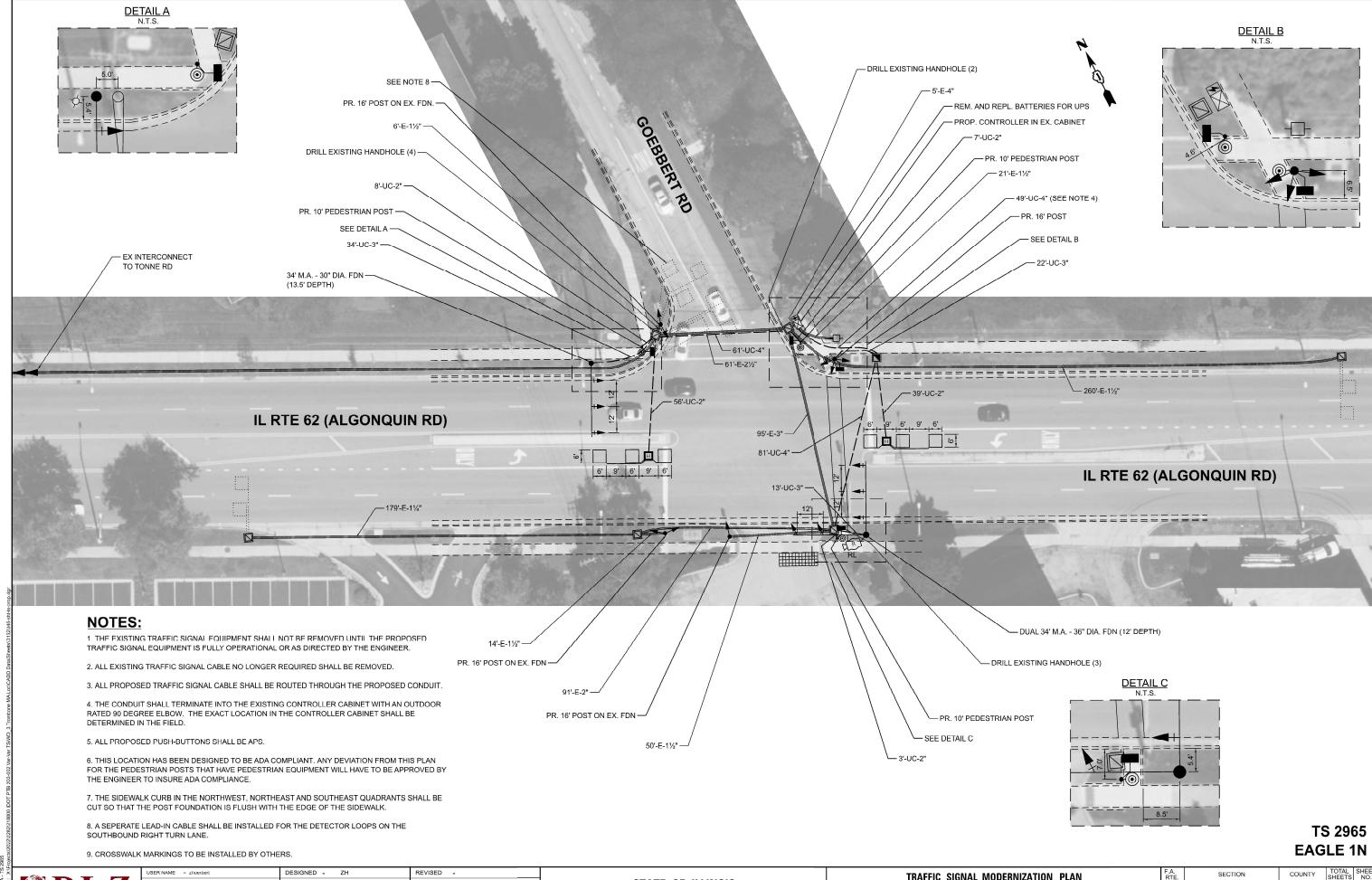
	FHWA SEF	RIES "C"		FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
Α	0.240	5.122	0.240	Α	0.240	6.804	0.240
В	0.880	4.482	0.480	В	0.960	5.446	0.400
С	0.720	4.482	0.720	С	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	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 I	0.880	4.482	0.880	H I	0.960	5.446	0.960
J	0.880	1.120 4.082	0.880	J	0.960 0.240	1.280 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
M	0.880	5.284	0.880	M	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	T	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
×	0.240	6.084 4.722	0.240	W X	0.240	7. 124 5. 446	0.240
Y	0.240	5.122	0.240	Ŷ	0.400	6.884	0.400
Z	0.480	4. 482	0.480	Z	0.400	5.446	0.400
	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	Ь	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
<u> </u>	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 I	0.720 0.720	4. 322 1. 120	0.160 0.720	k I	0.800	5. 122 1. 280	0.160
m n	0.720	6. 724	0. 120	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
P	0.720	4.082	0.480	P	0.800	4.802	0.480
	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
+	0.080	2.882	0.080	+	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	٧	0.160	5.684	0.160
W	0.160	7.524	0.160	W	0.160	9.046	0.160
×	0.000	5. 202 4. 962	0.000	×	0.000	6. 244	0.000
y z	0.160 0.240	4. 962 3. 362	0.160	y z	0.160 0.240	4.002	0.160
1	0.720	1.680	0.880	1	0.800	2.000	0. 240
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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SHEET NO. 7 OF 7 SHEETS STA. TO STA.

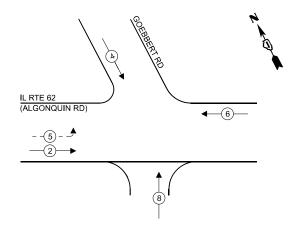




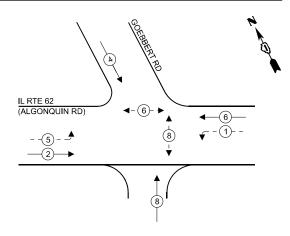
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 62 (ALGONQUIN RD) AT GOEBBERT RD

EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
RADAR	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
			ΤΩΤΔΙ =	553.4

ENERGY COSTS TO:

VILLAGE OF ARLINGTON HEIGHTS

33 S ARLINGTON HEIGHTS RD

ARLINGTON HEIGHTS, IL 60005

ENERGY SUPPLY: CONTACT: MR. DAVE SCHACHT

PHONE: (630)-437-2129 COMPANY: COMED ACCOUNT NUMBER:

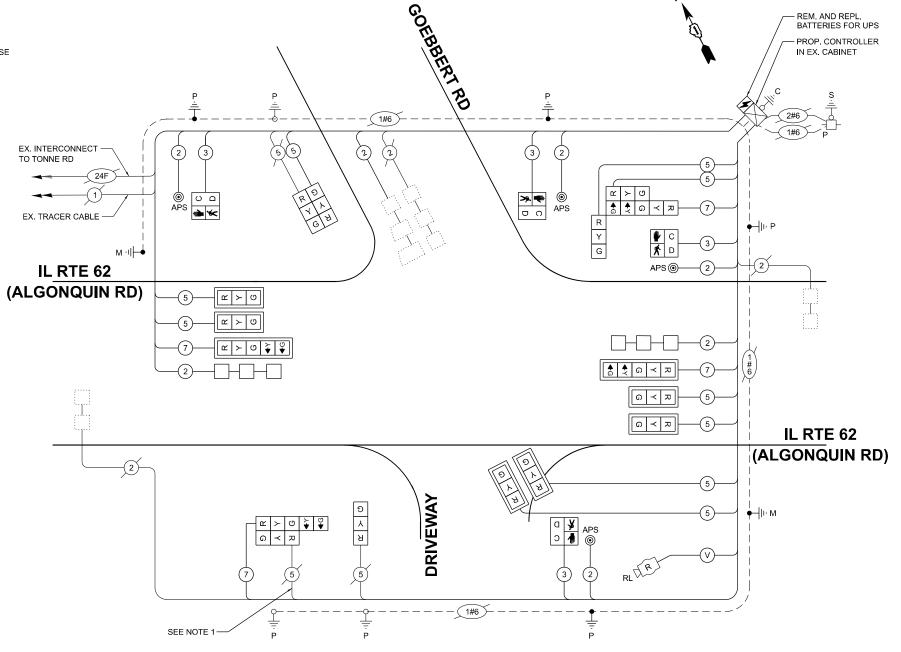
LEGEND

◆ PROTECTED PHASE

◆ - (*)- - PROTECTED/PERMITTED PHASE

√-(*)- ► PEDESTRIAN PHASE

♦ OL OVERLAP



NOTES:

1. THE EXISTING 5C CABLE SHALL BE RE-USED FOR THE PROPOSED EB NEAR RIGHT SIGNAL HEAD. THE 5C CABLE SHALL BE RE-LANDED ON THE PHASE 2 TERMINALS.

CABLE PLAN

TS 2965 EAGLE 1N



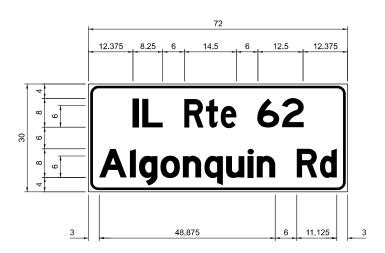
USER NAME = zhoerbert	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 2/7/2023	DATE	-	2/3/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNA IL RTE 62 (ALGONQUIN RD) AT G					
	SHEET	OF	SHEETS	STA.	TO STA.

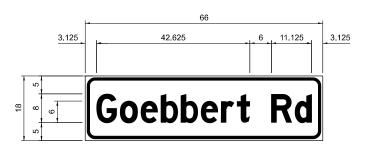
F.A. RTE	SEC-	ION		COUNTY	TOTAL SHEETS	SHEE NO.
VAR	2022 VAI	R TSM 2		соок	48	21
				CONTRACT	NO. 62	U46
		ILLINOIS	FED. AII	D PROJECT		

SIGN PANEL DETAIL



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.

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 QUANTI
SIGN PANEL - TYPE 1	SQ FT	16.5
SIGN PANEL - TYPE 2	SQFT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	113
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	69
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	191
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	390
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	410
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1455
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	775
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	340
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	365
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	12
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
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
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
NDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	202
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	440
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 2965 **EAGLE 1N**

COUNTY TOTAL SHEET NO.

COOK 48 22

CONTRACT NO. 62U46



USER NAME = zhoerbert	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 2/7/2023	DATE	-	2/3/2023	REVISED -

REMOVAL AND RELOCATION NOTES: THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE. 12 EACH SIGNAL HEAD, 1 FACE, 3 SECTION 2 EACH TRAFFIC SIGNAL BACKPLATE 2 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE

2 EACH ALUMINUM MAST ARM ASSEMBLY AND PO 4 EACH PEDESTRIAN PUSH BUTTON 5 EACH TRAFFIC SIGNAL POST 6 EACH PEDESTRIAN SIGNAL HEAD 2 EACH STREET NAME SIGN PANEL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, AND RELOCATED TO THE PROPOSED MAST ARM ASSEMBLIES AND POLES AND PROPOSED CONTROLLER CABINET:

1 EACH LIGHT DETECTOR
1 EACH CONFIRMATION BEACON

SEYM ====

REMOVE EX. POST & FDN.

-REMOVE EX. POST & FDN.

REMOVE EX. M.A. & FDN.

ALGONQUIN RD

EMOVE EX. POST & FDN

REMOVE EX. POST & FDN. -

REMOVE EX. M.A. & FDN.

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. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

TS 13005



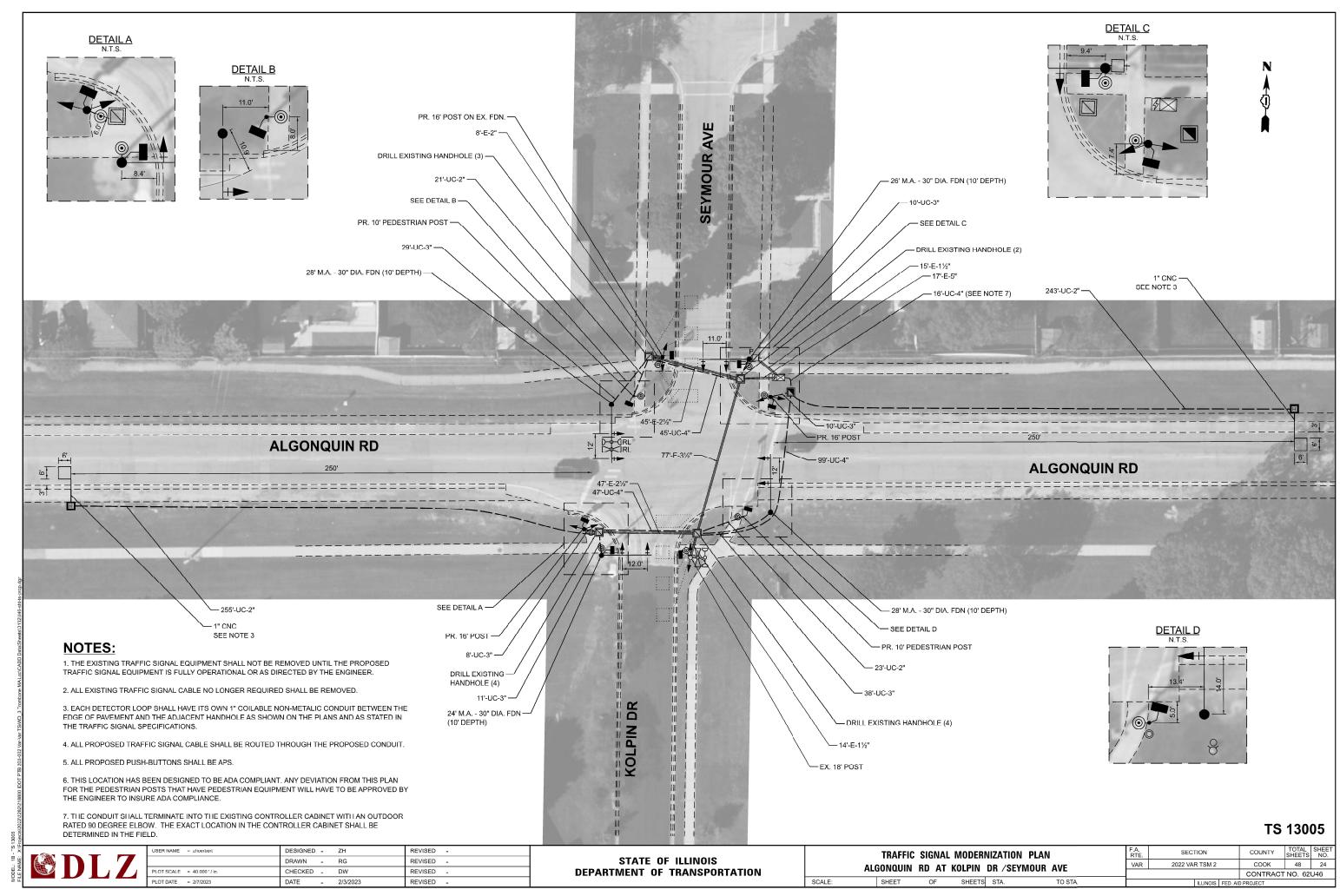
USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 2/7/2023	DATE - 2/3/2023	REVISED -

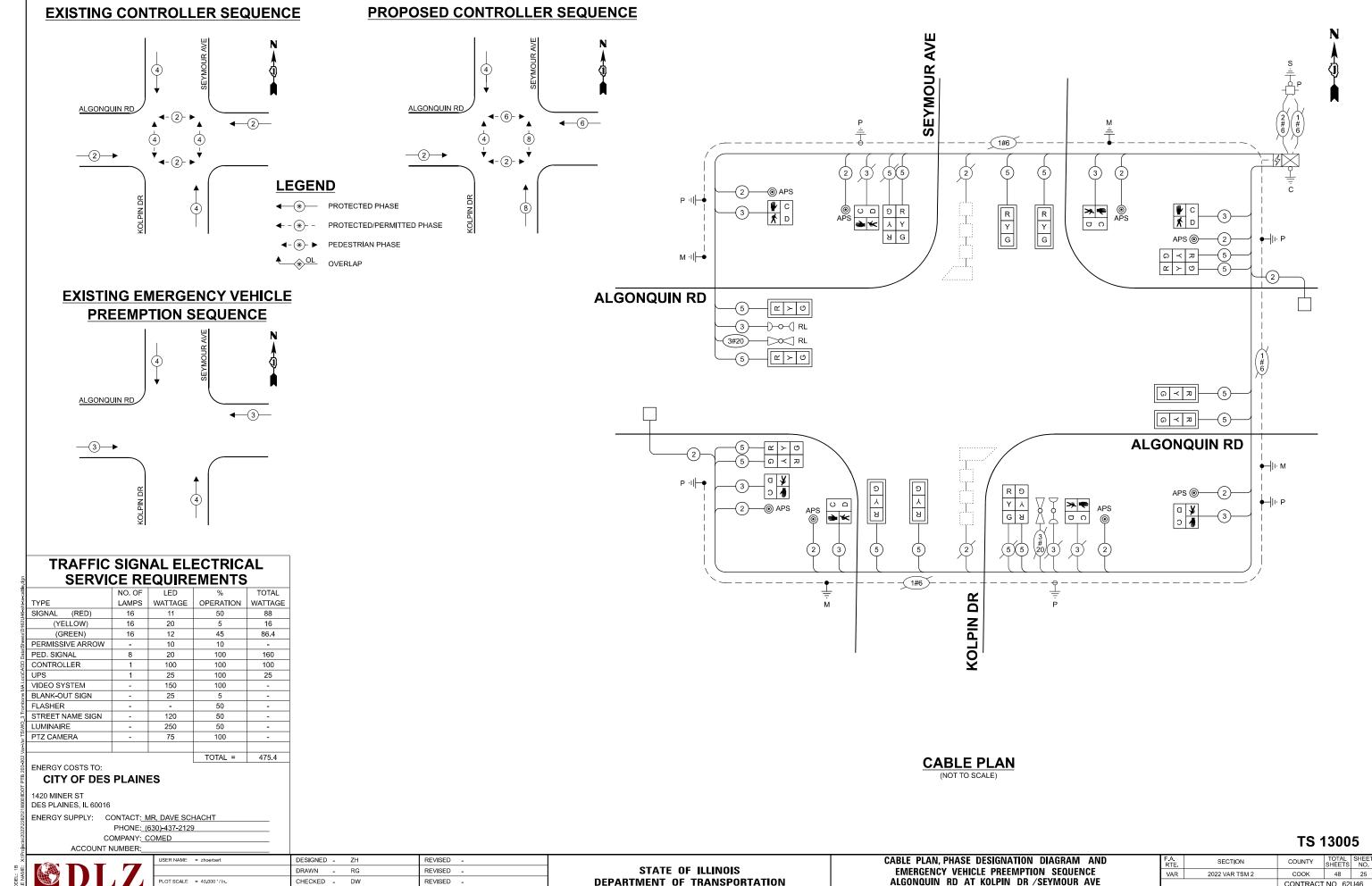
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
ALGONQUIN RD AT KOLPIN DR /SEYMOUR AVE

SHEET OF SHEETS STA. TO STA.

ALGONQUIN RD





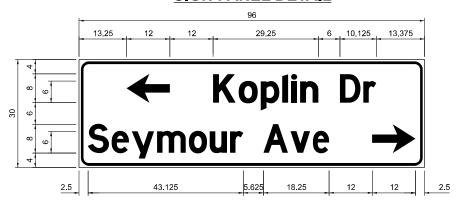
REVISED -

DATE

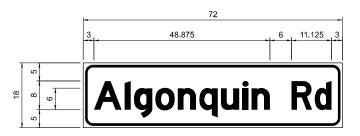
CONTRACT NO. 62U46

OF SHEETS STA.

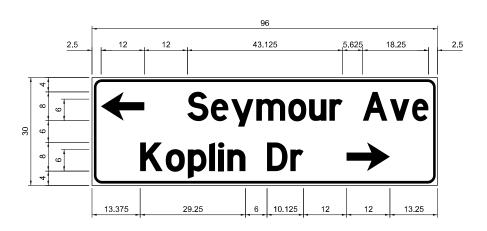
SIGN PANEL DETAIL



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	20	2	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	9	1	ZZ	2



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	20	2	ZZ	

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.

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 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	542
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	106
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	207
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1045
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	985
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2190
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	725
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	450
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	40
DRILL EXISTING HANDHOLE	EACH	13
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	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	61
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1680
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	160
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

TS 13005

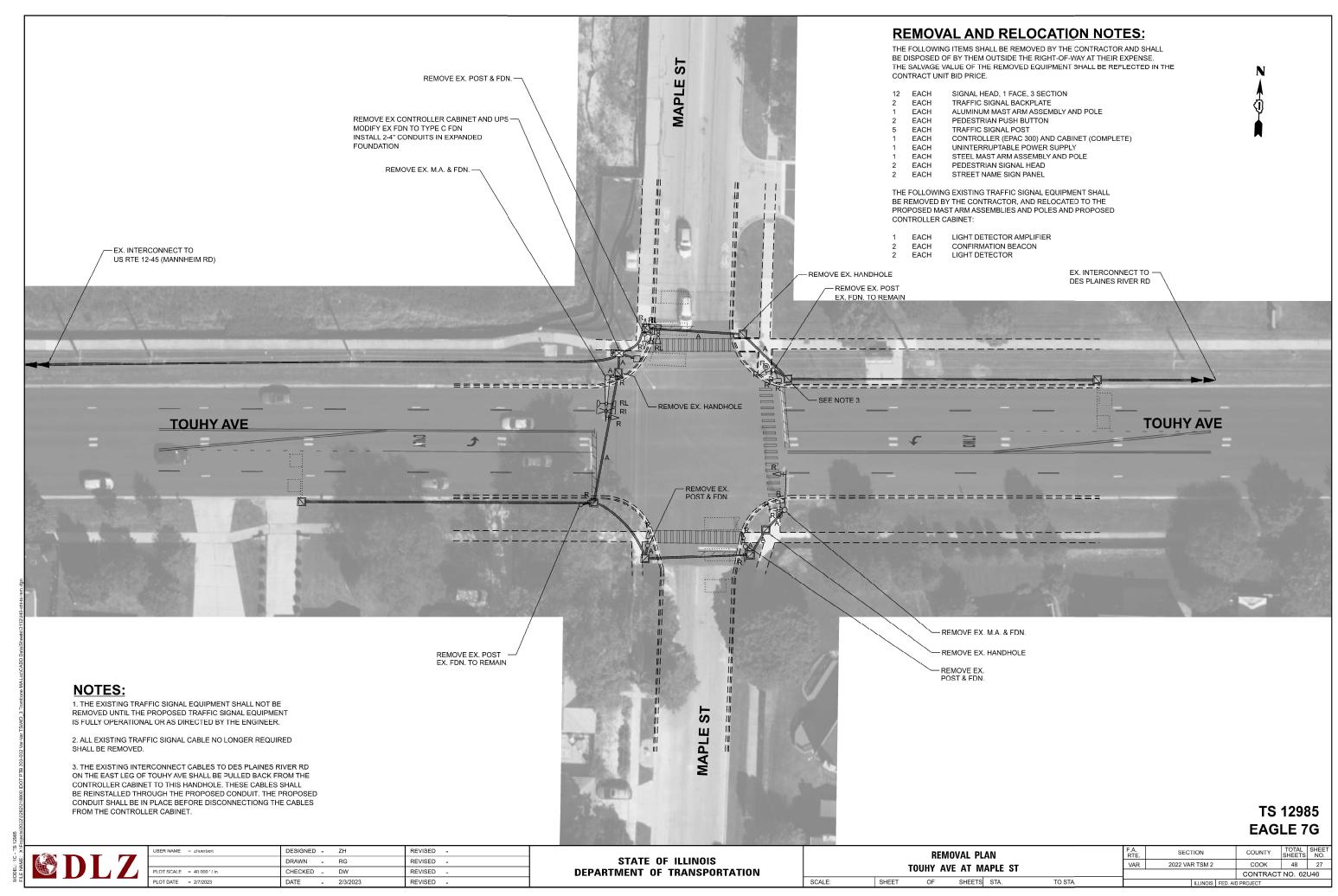
COUNTY TOTAL SHEETS NO.

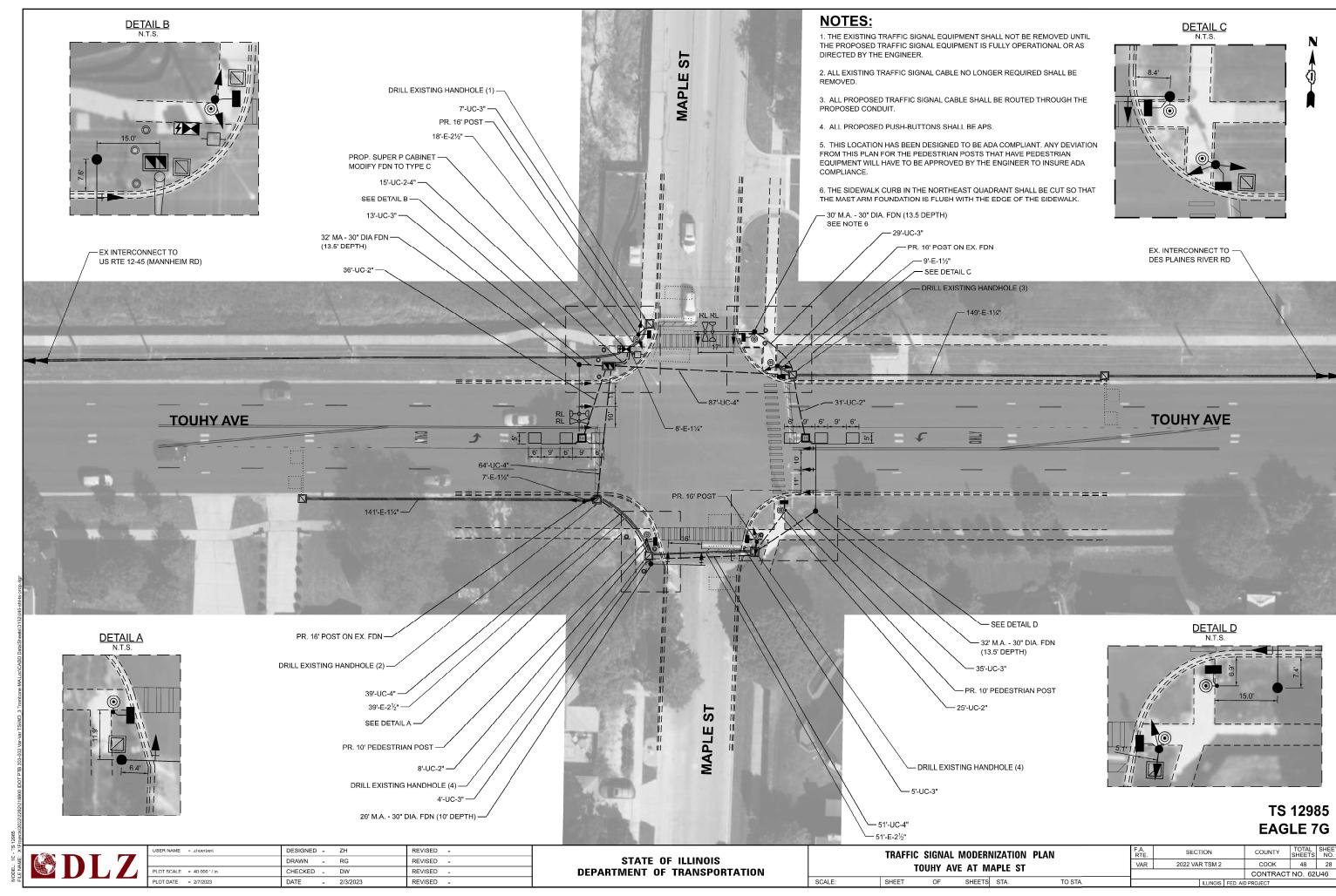
COOK 48 26

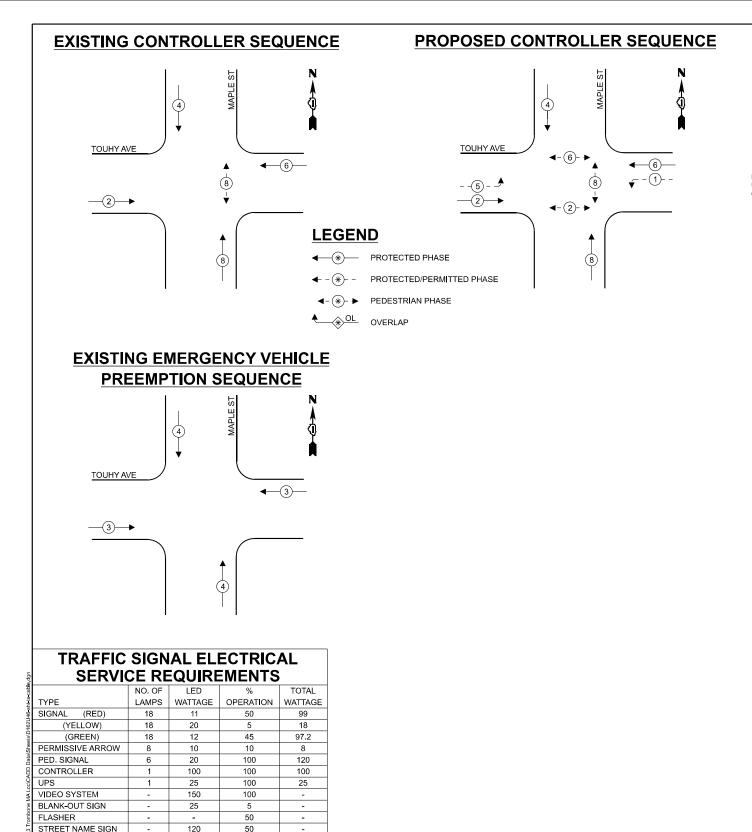
CONTRACT NO. 62U46

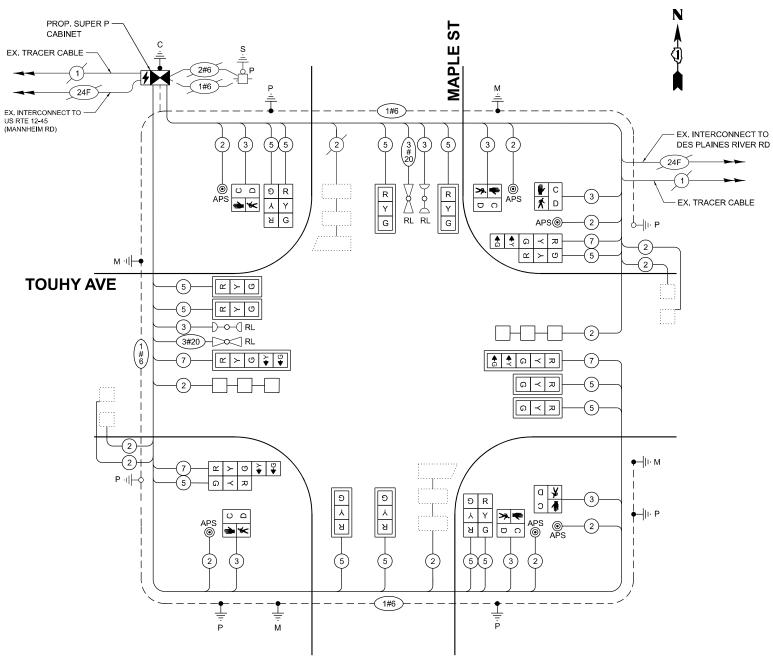
ODLZ

USER NAME = zhoerbert	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 2/8/2023	DATE	-	2/3/2023	REVISED -









CABLE PLAN

TS 12985 EAGLE 7G



ACCOUNT NUMBER:

CITY OF DES PLAINES

ENERGY SUPPLY: CONTACT: MR. DAVE SCHACHT

PHONE: (630)-437-2129 COMPANY: COMED

250

50

TOTAL =

467.2

LUMINAIRE

PTZ CAMERA

ENERGY COSTS TO:

1420 MINOR ST DES PLAINES, IL 60016

USER NAME = zhoerbert	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 / in.	CHECKED	-	DW	REVISED -
PLOT DATE = 2/7/2023	DATE	-	2/3/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

CABL	E PLAI	N. PHASE	DESIGNAT	TON D	IAGRAM	AND		
	EMERGENCY VEHICLE PREEMPTION SEQUENCE							
EIV								
TOUHY AVE AT MAPLE ST								
	SHEET	OF	SHEETS	STA		TO STA		

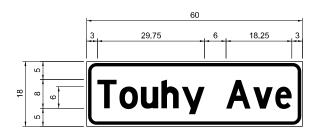
 F.A. RTE.
 SECTION
 COUNTY SHEETS
 TOTAL SHEETS NO.

 VAR
 2022 VAR TSM 2
 COOK
 48
 29

 CONTRACT NO. 62U46

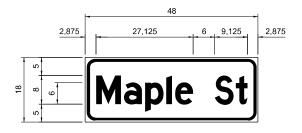
 ILLINOIS FED. AID PROJECT

SIGN PANEL DETAIL



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.

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

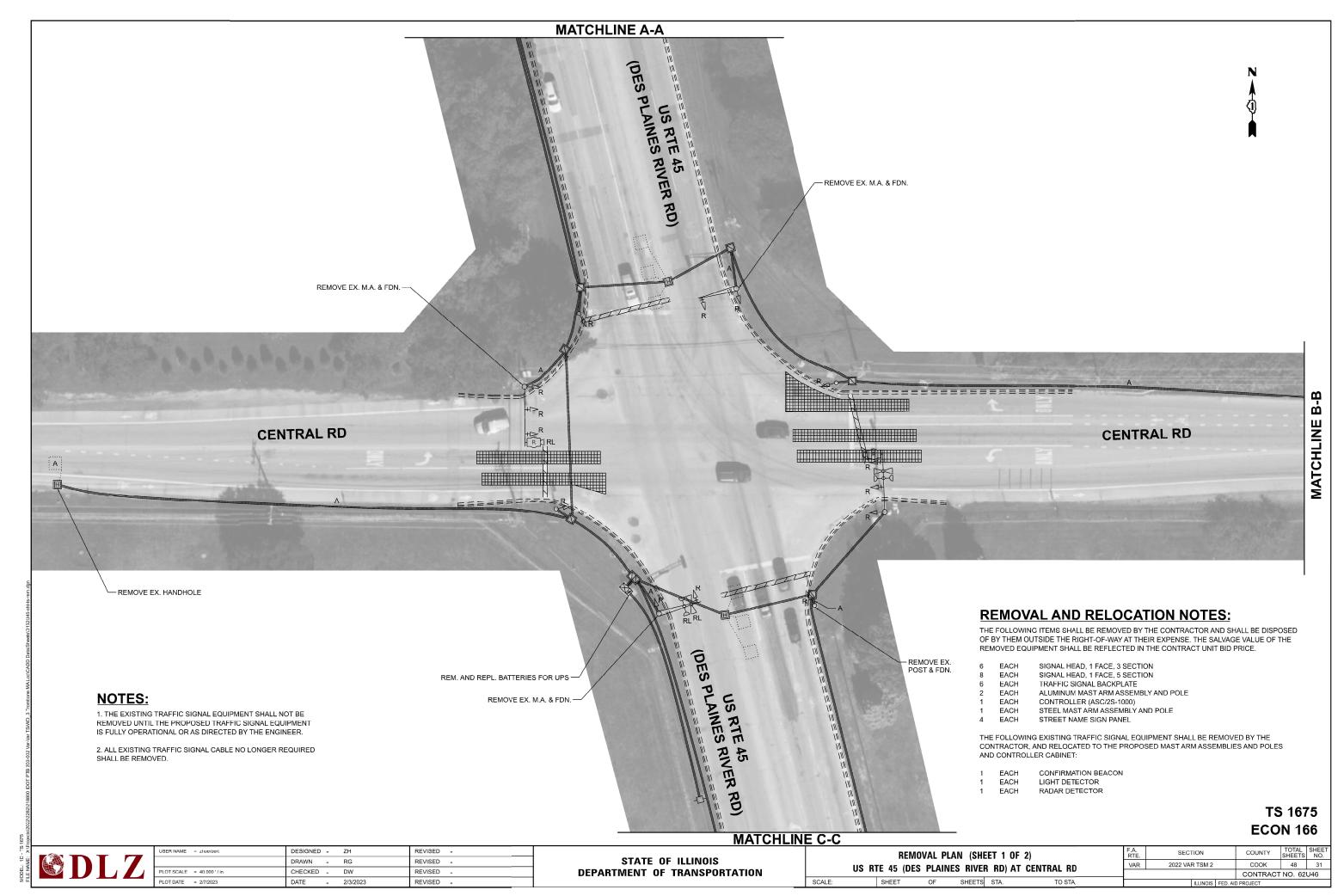
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQFT	27
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	100
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	93
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	271
HEAVY-DUTY HANDHOLE	EACH	2
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	990
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1340
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2380
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	680
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1510
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	600
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50.5
DRILL EXISTING HANDHOLE	EACH	14
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
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	204
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1205
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	245
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	315
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

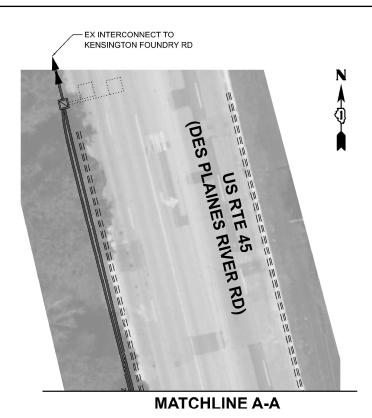
TS 12985 EAGLE 7G

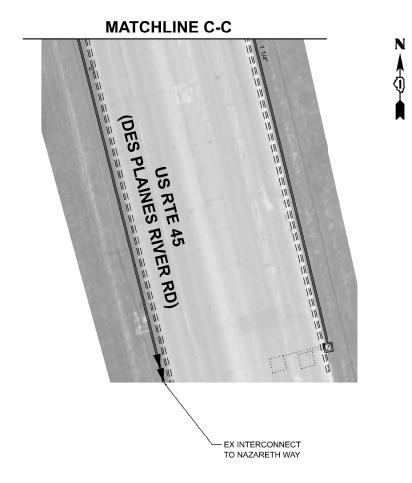


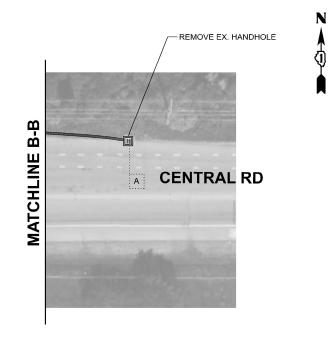
USER NAME = zhoerbert	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED -	DW	REVISED -
PLOT DATE = 2/7/2023	DATE -	2/3/2023	REVISED -



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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. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

TS 1675 ECON 166

COUNTY TOTAL SHEETS NO.

COOK 48 32

CONTRACT NO. 62U46

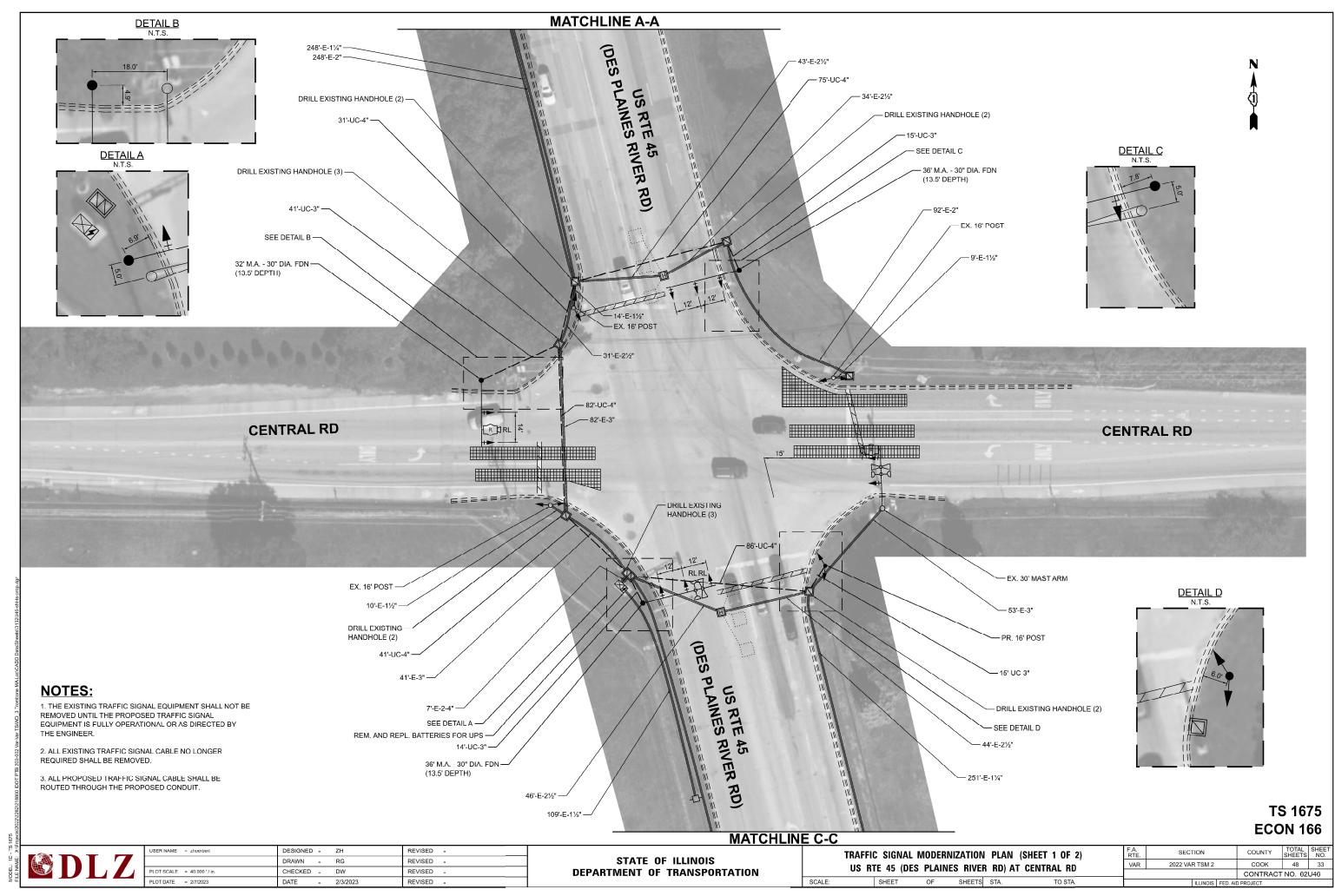


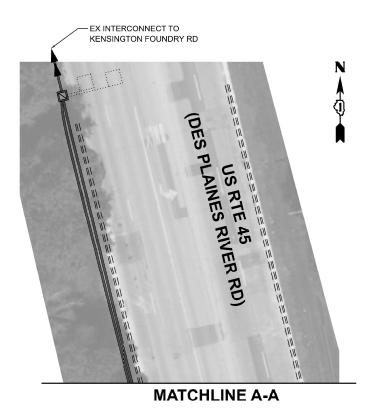
USER NAME = zhoerbert	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000 */ in.	CHECKED -	DW	REVISED -
PLOT DATE = 2/7/2023	DATE -	2/3/2023	REVISED -

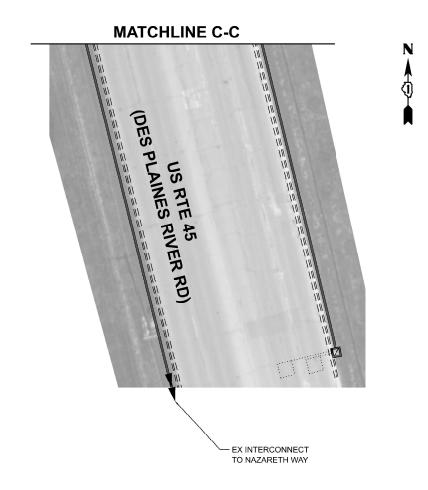
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

					F.A. RTE.	SECTION	
US RTE 45 (DES PLAINES RIVER RD) AT CENTRAL RD				VAR	2022 VAR TSM 2		
03 11	US NIL 45 (DES FEMINES NIVEN ND) AT CENTRAL ND						
	CHEET	0.5	CHEETC	CTA	TO CTA		







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. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.

3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.

TS 1675 **ECON 166**



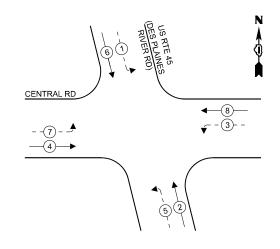
USER NAME = zhoerbert	DESIGNED -	. ZH	REVISED -
	DRAWN -	. RG	REVISED -
PLOT SCALE = 40.000 */ in.	CHECKED -	. DW	REVISED -
PLOT DATE = 2/7/2023	DATE -	2/3/2023	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

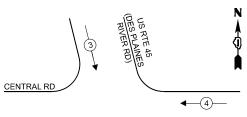
SCALE:

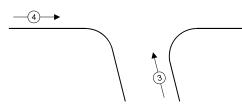
TRAFFI	C SIGNAL	MODER	NIZATION	PLAN	(SHEET 2 OF 2	2)	F.A. RTE.	SECTION	N	COUNTY	TOTAL SHEETS	SHEET NO.
IIC B	TE //5 /DES	PIAIN	EC BIVE	PD\ A1	CENTRAL RD	•	VAR	2022 VAR TS	SM 2	соок	48	34
03 11	IL 43 (DE	LAIN	LO IIIVLI	ו ווטן א	CENTILAL IID					CONTRACT	NO. 62	U46
	SHEET	OF	SHEETS	STA	TO STA			1011	NOIC FED AL	D DDO IECT		

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	NO. OF	LED	%	TOTAL
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	18	11	50	99
(YELLOW)	18	20	5	18
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100
UPS	1	25	100	25
RADAR	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
d				
			TOTAL =	505.2

ENERGY COSTS TO:

CITY OF DES PLAINES

1420 MINER ST

DES PLAINES, IL 60016

ENERGY SUPPLY: CONTACT: MR. DAVE SCHACHT

PHONE: (630)-437-2129

COMPANY: COMED ACCOUNT NUMBER:

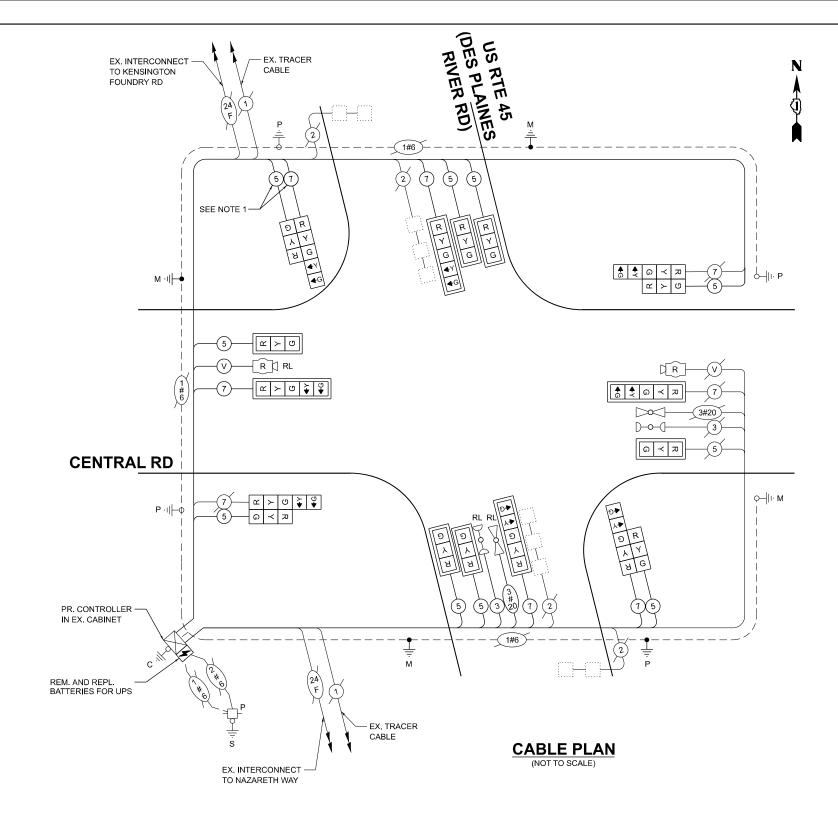
LEGEND

◆ PROTECTED PHASE

PROTECTED/PERMITTED PHASE

◆-(*)- ► PEDESTRIAN PHASE

♦ OL OVERLAP



REMOVE EXISTING SHARED MULTI-CONDUCTOR CABLE AND REPLACE WITH SEPERATE 5C AND 7C CABLES AS SHOWN.

> TS 1675 **ECON 166**

COOK 48 35

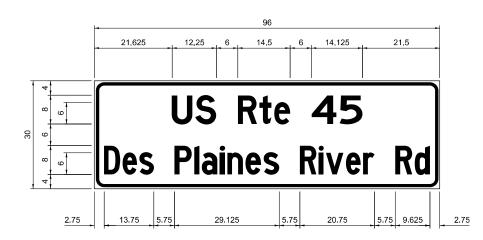
CONTRACT NO. 62U46

COUNTY



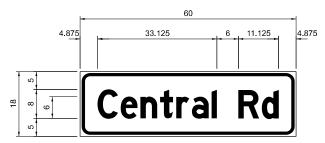
			REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED -	DW	REVISED -
PLOT DATE = 2/7/2023	DATE -	2/3/2023	REVISED -

SIGN PANEL DETAIL



DESIGN SERIES	TEXT	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	US Rte 45	20	2	ZZ	2
С	Des Plaines River Rd		2		2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.

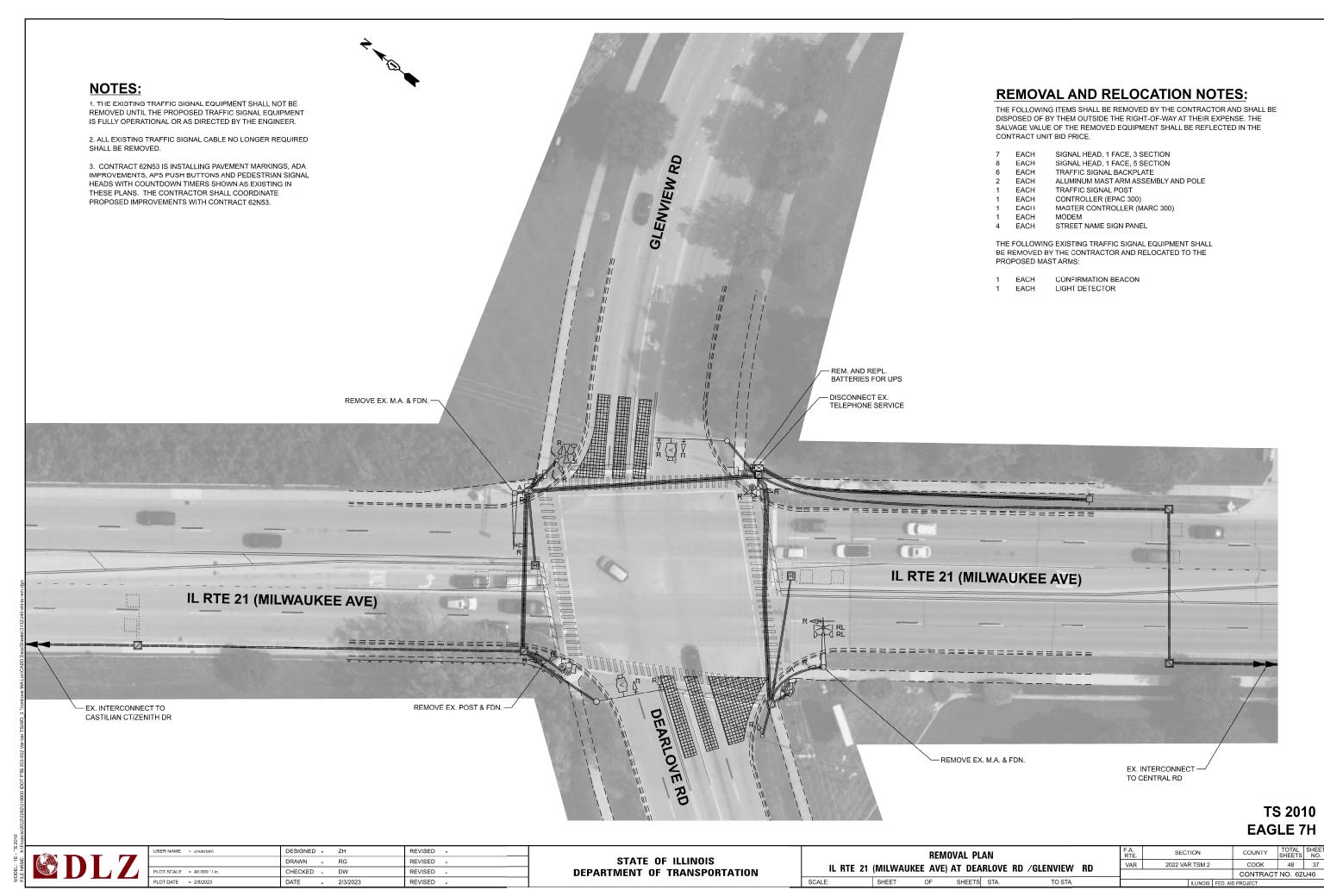
NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION
PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET
NAME SIGN DETAIL.

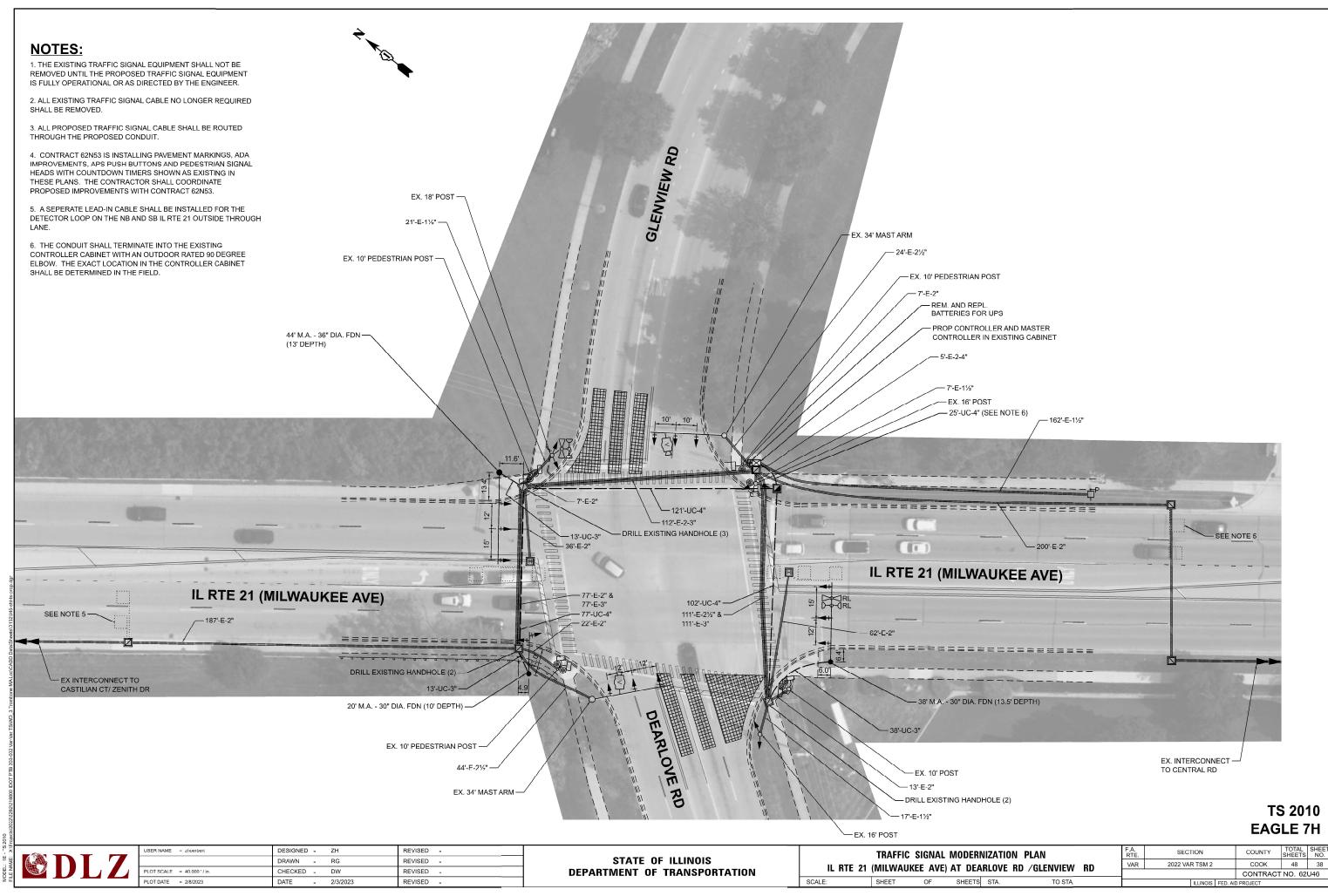
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	85
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	315
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	100
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1970
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1095
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	525
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	40.5
DRILL EXISTING HANDHOLE	EACH	14
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	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1825
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	100
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

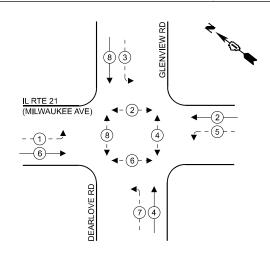
TS 1675 **ECON 166**

USER NAME = zhoerbert	DESIGNED -	-	ZH	REVISED -
	DRAWN -	-	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED -	-	DW	REVISED -
PLOT DATE = 2/7/2023	DATE -	-	2/3/2023	REVISED -





EXISTING CONTROLLER SEQUENCE



LEGEND

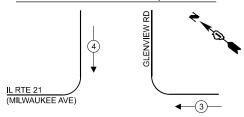
◆ PROTECTED PHASE

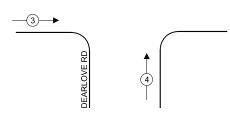
← -(*)- - PROTECTED/PERMITTED PHASE

◆- *- PEDESTRIAN PHASE

OVERLAP OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

cap		NO. OF	LED	%	TOTAL
Data/Sheets/D162U46-snt-ts-cabi	TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
240-S	SIGNAL (RED)	20	11	50	110
1621	(YELLOW)	20	20	5	20
DIS/D	(GREEN)	20	12	45	108
She	PERMISSIVE ARROW	16	10	10	16
Data	PED. SIGNAL	8	20	100	160
2	CONTROLLER	2	100	100	200
SS	UPS	1	25	100	25
Ä	VIDEO SYSTEM	1	150	100	150
one	BLANK-OUT SIGN	-	25	5	-
omo.	FLASHER	-	-	50	-
~	STREET NAME SIGN	-	120	50	-
Š	LUMINAIRE	-	250	50	-
2	PTZ CAMERA	-	75	100	-
/ar					
OUZ Var Var I SWVO 3 Trombone MA LOCICALIU				TOTAL =	789

ENERGY COSTS TO:

VILLAGE OF GLENVIEW

1225 WAUKEGAN RD

GLENVIEW, IL 60025

ENERGY SUPPLY: CONTACT: MR. TERRI BLECK

PHONE: (847)-816-5239

COMPANY: COMED

ACCOUNT NUMBER:

EDLZ

USER NAME = zhoerbert	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED -	DW	REVISED -
PLOT DATE = 2/7/2023	DATE -	2/3/2023	REVISED -

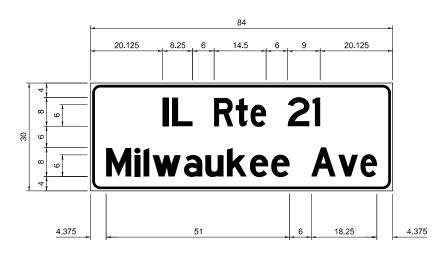
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 21 (MILWAUKEE AVE) AT DEARLOVE RD /GLENVIEW RD
LE: SHEET OF SHEETS STA. TO STA.

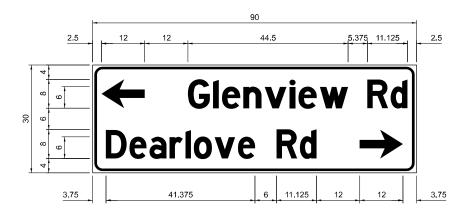
		1	GLENVIEW RL		REM, AND REPL. BATTERIES FOR UPS
				/ / M	ROP. CONTROLLER AND IASTER CONTROLLER IN XISTING CABINET
	P ÷	/ (<u>1#6</u>)		2#6	P
P·Ⅱ⊢∮	3 3 7 5 20 20 3		3 2		
(MILWAUKEE AVE)	5 <u>«</u> >0			12	
1 (1) (4) (6)	5		2) RL D-0-(-3)	1	
□ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			RL 3#20		EX. TRACER CABLE
M · II		(P)	Ð →	♦ II· M	24F
EX. TRACER CABLE 1 24F EX. INTERCONNECT	APS APS 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 0 5 7	R D Y A APS APS G B D O D M S S S T S T S T S T S T S T S T S T S		EX. INTERCONNECT TO CENTRAL RD
TO CASTILIAN CT/ ZENITH DR	—————————————————————————————————————		\ \frac{\rightarrow}{\frac{1}{2}} \ \fr	/	
	•	RLO			
		ENRLOVE RD			
		CABLE P (NOT TO SCA	LAN		

TS 2010 EAGLE 7H

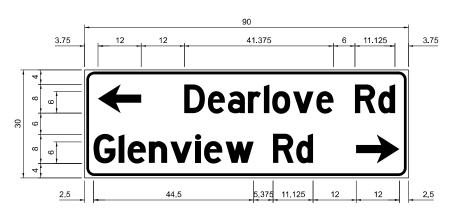
SIGN PANEL DETAIL



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	17.5	2	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.75	2	ZZ	



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	18.75	2	ZZ	1

NOTE

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

SCHEDULE OF QUANTITIES

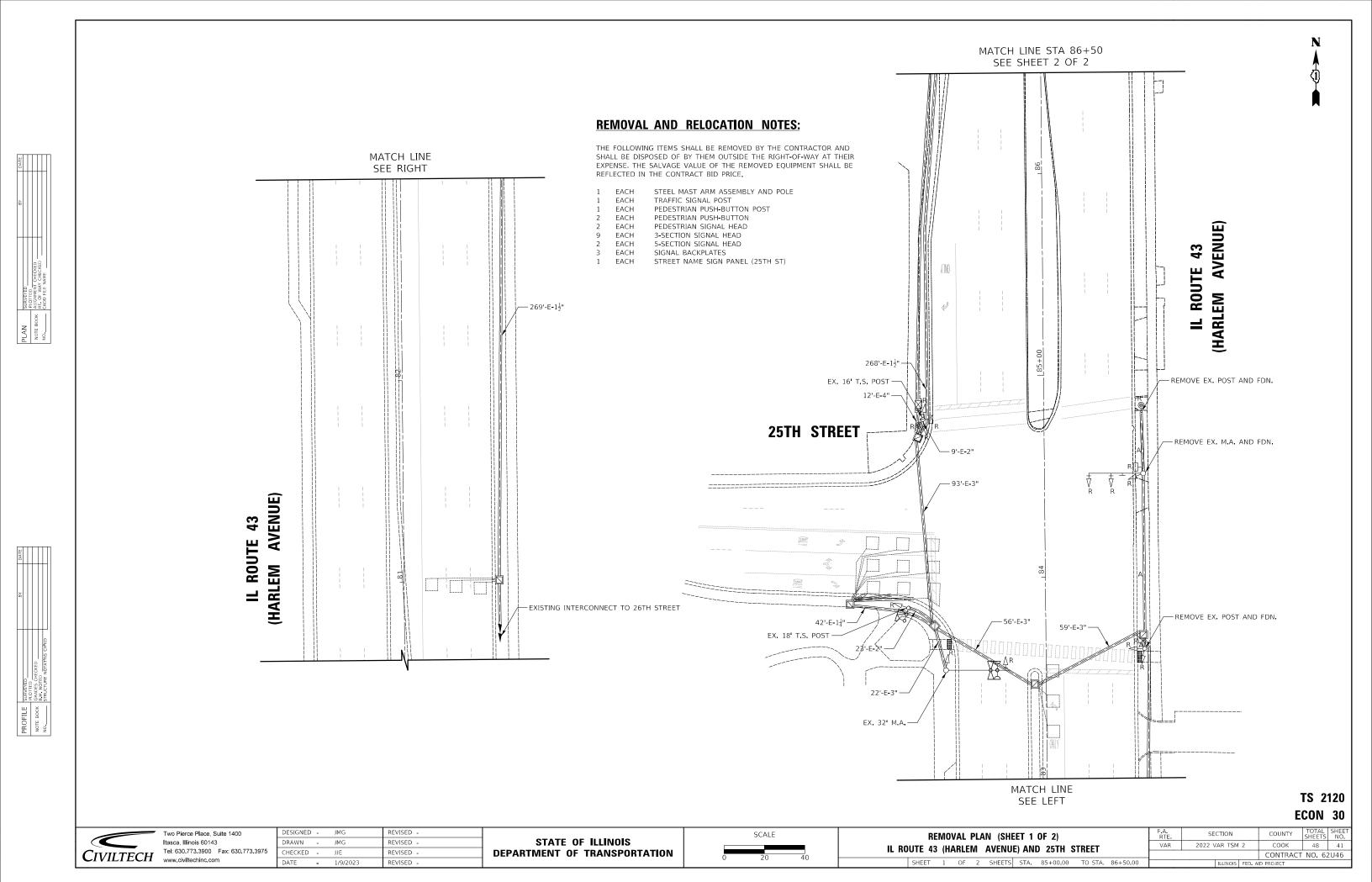
ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 2	SQ FT	72.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	64
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	325
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	245
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1790
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	800
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	665
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	470
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1085
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	245
CELLULAR MODEM	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

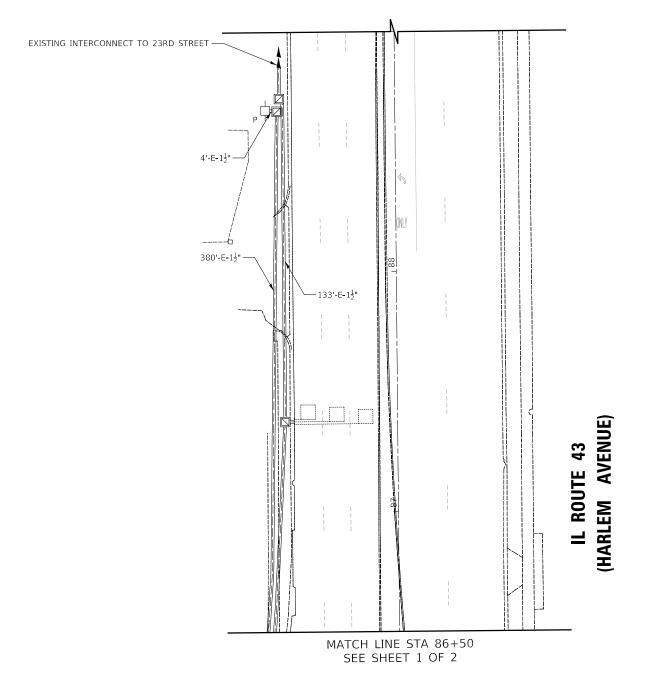
TS 2010 EAGLE 7H



USER NAME = zhoerbert	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 2/7/2023	DATE	-	2/3/2023	REVISED -

IMAST ANIM MOUNTED STREET MAINE SIGNS						F.A. RTE	SEC ⁻		
II D	AND SCHEDULE OF QUANTITIES IL RTE 21 (MILWAUKEE AVE) AT DEARLOVE RD /GLENVIEW RD					VAR	2022 VA		
IL N	IE ZI	INILVVAUN	EE AVE	AI DEA	NLUVE	ND / GLEINVIEW	RD		
LE:		SHEET	OF	SHEETS	STA.	TO STA.			





TS 2120 ECON 30

Two Pierce Place, Suite 1400 ltasca, Illinois 60143
Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com

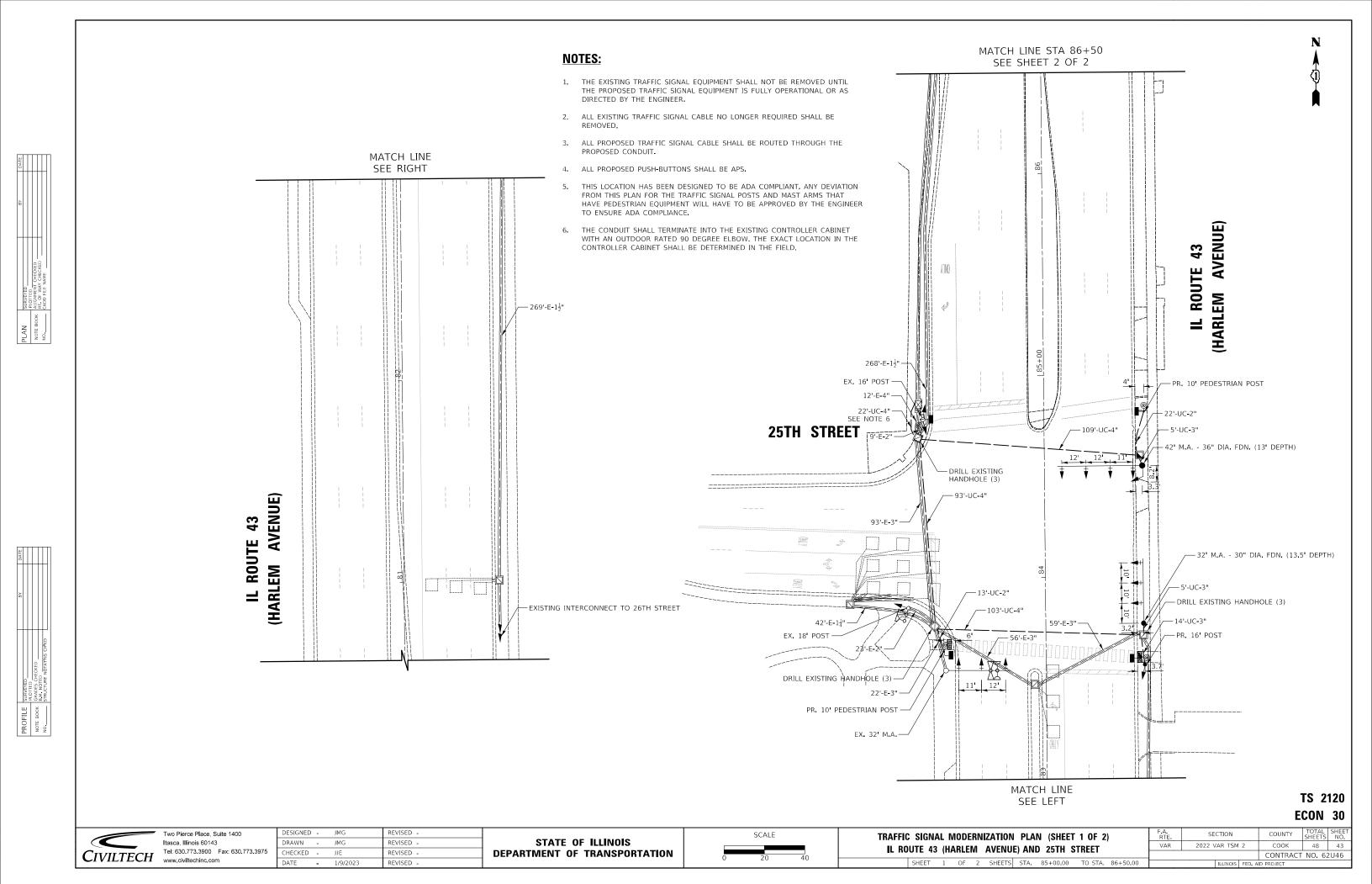
DESIGNED	-	JMG	REVISED -	
DRAWN	-	JMG	REVISED -	STATE OF ILLINOIS
CHECKED	-	JJE	REVISED -	DEPARTMENT OF TRANSPORTATION
DATE	-	1/9/2023	REVISED -	

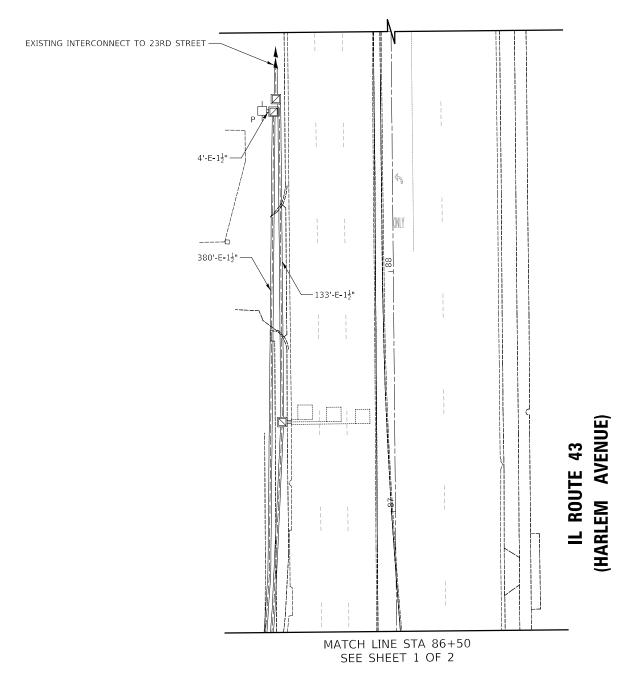
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SCALE

REMOVAL PLAN (SHEET 2 OF 2)										
. RO	UTE 4	3 (H	ARLE	M	AVENU	E) ANI	D 25TH	STREET		
	CHEET	2	OF		CHEETC	CTA	06 50 00	TO CTA	_	

F.A. RTE	SECTION			COUNTY	TOTAL SHEETS	S
VAR	2022 VAR TSM 2			COOK	48	
				CONTRACT	NO. 6	2U
		ILLINOIS	FED. A	ID PROJECT		
	RTE.	RTE.	VAR 2022 VAR TSM	RTE. SECTION VAR 2022 VAR TSM 2	VAR 2022 VAR TSM 2 COOK CONTRACT	RTE. SECTION COUNTY SHEETS VAR 2022 VAR TSM 2 COOK 48 CONTRACT NO. 6:





TS 2120 ECON 30

Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com

DESIGNED - JMG REVISED -DRAWN -REVISED -CHECKED -REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2) IL ROUTE 43 (HARLEM AVENUE) AND 25TH STREET SHEET 2 OF 2 SHEETS STA. 86+50.00 TO STA. 89+00.00

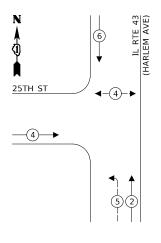
 COUNTY
 TOTAL SHEETS NO.

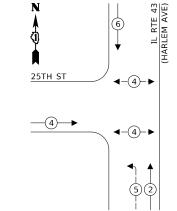
 COOK
 48
 44

 CONTRACT NO. 62U46
 F.A. RTE VAR SECTION 2022 VAR TSM 2

EXISTING CONTROLLER SEQUENCE

PROPOSED CONTROLLER SEQUENCE





LEGEND: **◆**PROTECTED PHASE PROTECTED/PERMITTED PHASE → → PEDESTRIAN PHASE OL OVERLAP

-EX, INTERCONNECT

-EX. TRACER CABLE

(7)

R Y G **◆**Y **◆**G

(5)(3)

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R Y G

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(5)

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IL RTE 43 (HARLEM

>>. ■ U ∩ ⊚APS

(3) (2)

(5)(5)

EX. TRACER CABLE-

EX. INTERCONNECT _ TO 26TH ST

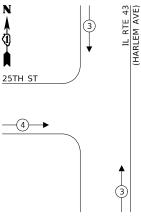
TO 23RD ST

∪ □

APS ⊚ 📤 🕊

(3)

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



25TH ST	
	A 3
	1 1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS						
YPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAI WATTA		
TONAL (DE)\ 1¢	1.1	FO	00.0		

TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	399.4

ENERGY COSTS TO:

PHONE: (630) 424-5704

USER NAME = jmg	DESIGNED	-	JMG	REVISED	-
	DRAWN	-	JMG	REVISED	-
PLOT SCALE = 20.0000 / in.	CHECKED	-	JJE	REVISED	-
PLOT DATE = 2/6/2023	DATE	-	1/9/2023	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

25TH ST

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 43 (HARLEM AVE) AT 25TH ST SHEET 1 OF 1 SHEETS STA.

CABLE PLAN

A. TE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
AR 2022 VAR TSM 2		соок	48	45		
			CONTRACT	NO. 62	2U46	
ILLINOIS FED. A			ID PROJECT			

TS 2120

ECON 30

ELECTRICAL SERVICE REGULATION					
TYPE		NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL	(RED)	16	11	50	88.0
	(YELLOW)	16	20	5	16.0
	(GREEN)	16	12	45	86.4
PERMISSIVE ARROW		4	10	10	4.0
PED. SIGNAL		4	20	100	80.0
CONTROL	LER	1	100	100	100.0

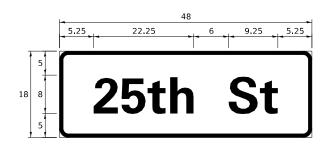
VILLAGE OF NORTH RIVERSIDE 2401 S DES PLAINES AVE

NORTH RIVERSIDE, 60546 ENERGY SUPPLY: CONTACT: JOE STACHO

> COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

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	13.75	2	ZZ	

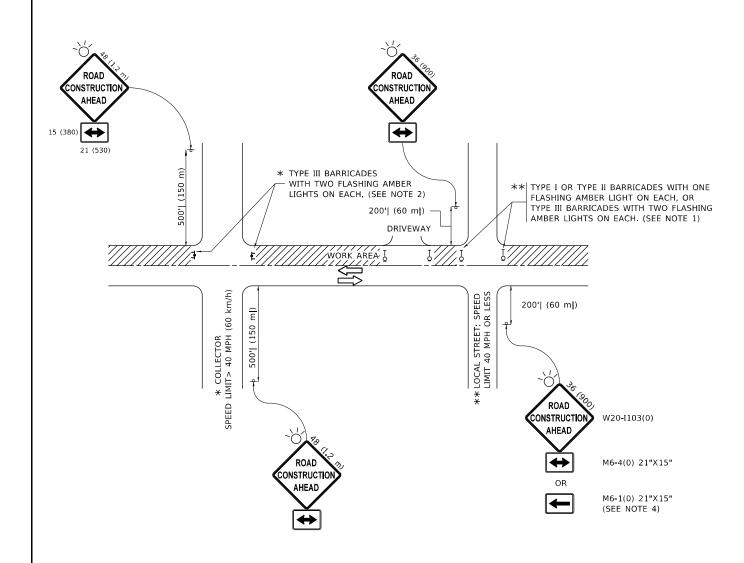
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT	6 3.75 35 24 327 1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT	35 24 327 1
	24 327 1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA, FOOT	327 1 1
	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. FOOT	1
HANDHOLE EACH	
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C FOOT	605
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C FOOT	626
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C FOOT 2,	,563
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C FOOT 2	219
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT	443
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT. EACH	1
CONCRETE FOUNDATION, TYPE A FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER FOOT 1	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER FOOT	13
DRILL EXISTING HANDHOLE EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH	9
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	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC EACH	10
MODIFY EXISTING CONTROLLER EACH	1
MODIFY EXISTING CONTROLLER CABINET EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT FOOT 2,	,808,
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH	1
REMOVE EXISTING CONCRETE FOUNDATION EACH	3
PEDESTRIAN SIGNAL POST, 10 FT. EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER FOOT	8
TEMPORARY INFORMATION SIGNING SQ FT 5	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 EACH	1

TS 2120 ECON 30

	USER NAME = Iovan Plascencia	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 40.0000 / in.	CHECKED - NB	REVISED -
П	PLOT DATE = 2/8/2023	DATE 2/3/2023	REVISED



NOTES:

- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- 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).

- 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
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

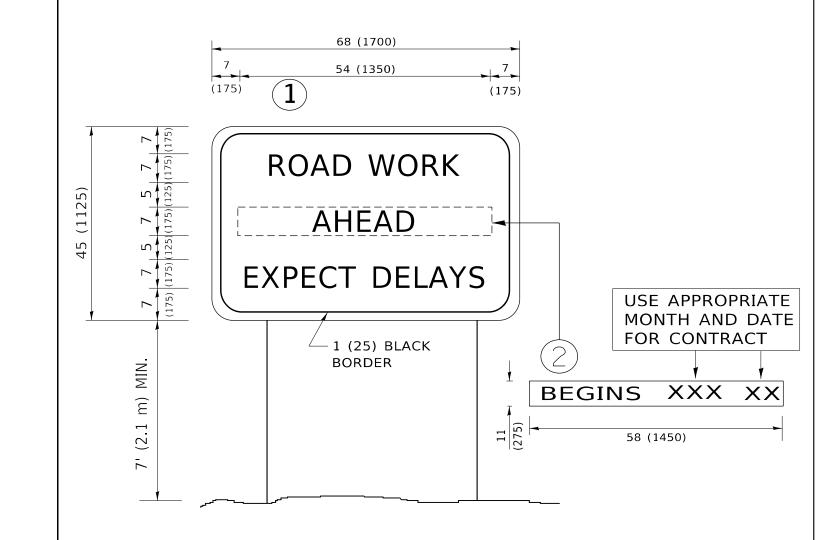
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = Iovan Plascencia	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 2/8/2023	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 1 OF 1 SHEETS STA. TO STA.



NOTES:

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

SCALE: NONE

7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

USER NAME = Iovan,Plascencia	DESIGNED -	REVISED	- R. MIRS 09-15-97	
	DRAWN -	REVISED	- R. MIRS 12-11-97	
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED	-T. RAMMACHER 02-02-9	
PLOT DATE = 2/8/2023	DATE -	REVISED	- C. JUCIUS 01-31-07	

ARTERIAL ROAD							RTE SECTION		
INFORMATION SIGN						VAR	2022 VAR TSM 2		
						TC-22			
	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS FEE