FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN DISTRICT 1 CONTRACT NO. 8 SECTION: 2023 TRAFFIC MAST PROJECT: HSIP - N5JL(608) TROMBONE MAST ARM REPLACEMENT **COOK AND WILL COUNTIES**

C-91-035-23

FOR LOCATION MAPS SEE SHEETS NO. 3-4

VARIOUS TOWNSHIPS

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

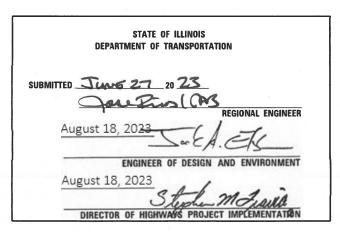
1-800-892-0123

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

CONTRACT NO. 62U32

VAR 2023 TRAFFIC MAST VARIOUS 47 1 ILLINOIS CONTRACT NO. 62U32 D-91-026-23





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHT NO.	DESCRIPTION
1 2 3-4 5-10 11-17 18	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
19-23 4295 24-28 295 29-32 9140 33-37 1795 38-41 9135 42-45 4005	· · · · · · · · · · · · · · · · · · ·
SHT NO.	DESCRIPTION
46	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
47	ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-08	STANDARD SYMBOLS, ABREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS MULITLANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAIL
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

RED LIGHT RUNNING NOTES

DETECTOR LOOP INSTALLATIONS

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE LOCATIONS LISTED BELOW, THE CONTRACTOR SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATIONS:

886001-01

US RTE 6 (162ND ST) AT STATE ST

 VILLAGE OF SOUTH HOLLAND
 REDFLEX TRAFFIC SYSTEMS

 16226 WASAU AVE
 15020 N 74TH ST

 SOUTH HOLLAND, IL 60473
 SCOTTSDALE, AZ 85260

 (708) 210-2910
 (480) 607-0705

IL RTE 1 (HALSTED ST) AT 144TH ST IL RTE 1 (HALSTED ST) AT 138TH ST

 VILLAGE OF RIVERDALE
 REDSPEED, ILLINOIS, LLC.

 157 W 144TH ST
 400 EISENHOWER LANE

 RIVERDALE, IL 60827
 LOMBARD, IL 60148

 (708) 841-2200
 (630) 317-5700

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 RESIDEENT 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.

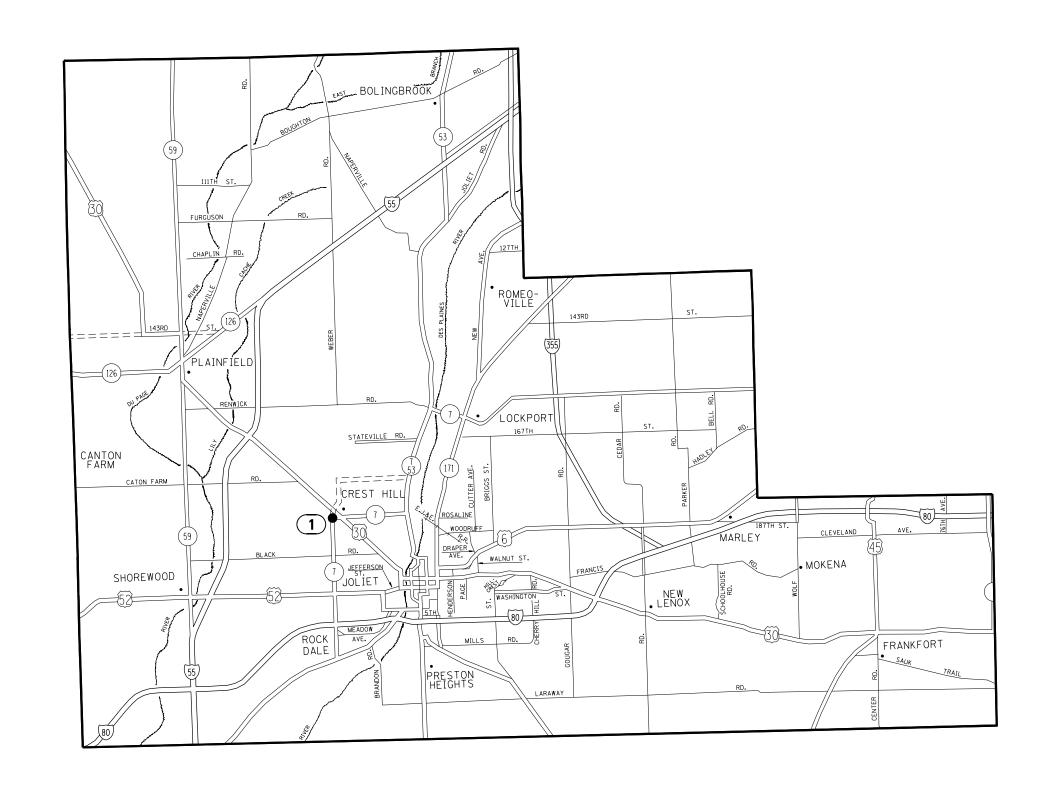
USER NAME = Iovan Plascencia	DESIGNED	-	IP	REVISED -	
	DRAWN	-	IP	REVISED -	
PLOT SCALE = 100.0000 / in.	CHECKED	-	NB	REVISED -	
PLOT DATE = 6/30/2023	DATE	-	6/30/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

						F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INDEX OF SHEETS, HIGHWAY STANDARDS &					GENERAL NOTES	VAR	2023 TRAFFIC MAST	VARIOUS	47	2
								CONTRACT	NO. 62	2U32
:	SHEET	OF	SHEETS	STA.	TO STA.		TILLINOIS FED A	D PROJECT		





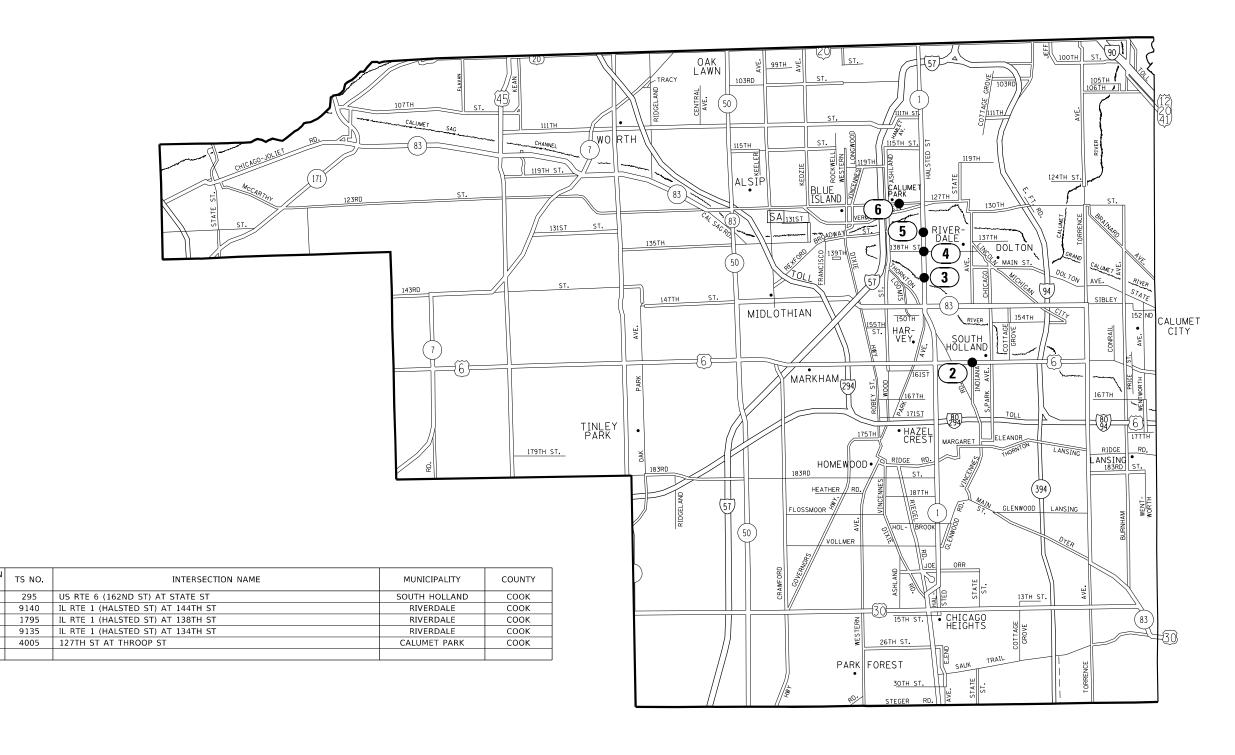
LOCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY	COUNTY
1	4295	IL RTE 7 (LARKIN AVE) AT IL RTE 7 (THEODORE ST)	CREST HILL	WILL

USER NAME = Iovan.Plascencia	DESIGNED	-	IP	REVISED	-	
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 100.0000 / in.	CHECKED	-	NB	REVISED	-	
PLOT DATE = 6/30/2023	DATE	-	6/30/2023	REVISED	-	

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

SCALE:

LOC	ATION N	1AP (SHE	ET 1 OF	2)	RTE	SECTION	COUNTY	SHEETS	NO.
	MORTH	WILL CO	VINITY	•	VAR	2023 TRAFFIC MAST	VARIOUS	47	3
	NONTH	ANILL OF	JUINTI				CONTRACT	NO. 62	2U32
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



SCALE:

USER NAME = Iovan,Plascencia	DESIGNED	-	IP	REVISED -	
	DRAWN	-	IP	REVISED -	i
PLOT SCALE = 100.0000 / in.	CHECKED	-	NB	REVISED -	i
PLOT DATE = 6/30/2023	DATE	-	6/30/2023	REVISED -	

LOCATION

NO.

TS NO.

9140

1795

4005

STAT	E 0	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

LOCA	ATION M	IAP (SHE	ET 2 OF	2)	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SOUTH	COUK C	NIINITV	·	VAR	2023 TRAFFIC MAST	VARIOUS	47	4
	300111	OUUK U	OUNT				CONTRACT	NO. 62	2U32
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT		

				ſ	CONSTRUCTION CODE						
					90% FED 10% STATE	90% FED 10% STATE					
Γ	CODE			TOTAL	WILL COUNTY	COOK COUNTY	TRAFFIC	SIGNALS			
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY			00	021			
+							UR	BAN			
-											
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	60	20	40					
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1					
	66001001	DESULATED SUBSTANCES DE CONSTRUCTION DI AN		1	0.20	0.00					
1	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.20	0.80					
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.20	0.80					
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	18	3	15					
-											
-				-							
-	67100100	MOBILIZATION	L SUM	1	0.20	0.80					
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.20	0.80					
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.20	0.80					
-											
-											
-	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.20	0.80					
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.20	0.80					
	72000100	SIGN PANEL - TYPE 1	SQ FT	93	31.5	61.5					
	720000	CIGN PANEL TYPE 2		100.7-							
-	72000200	SIGN PANEL - TYPE 2	SQ FT	108.75	52.5	56.25					
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	732	233	499					
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	408	62	346					
ا مام	CDECLALT										
*	SPECIALT	YIIEW									

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

RTE. SECTION COUNTY TOTAL SHEETS NO.

VAR 2023 TRAFFIC MAST VARIOUS 47 5

CONTRACT NO. 62U32

				CONSTRUCTION CODE				
			90% FED 10% STATE WILL COUNTY	90% FED 10% STATE COOK COUNTY				
CODE	UNIT	TOTAL				SIGNALS		
NO.	UNII	QUANTITY				D21 BAN		
ALGORIAN LINDER CROUND CONDUIT CALVANIZED STEEL AN DIA	5007	1.620	222	1 206				
81028240 UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,628	332	1,296				
81400100 HANDHOLE	EACH	1	1					
								-
81400200 HEAVY-DUTY HANDHOLE	EACH	4		4				
85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	5				
								-
85700200 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1				
86400100 TRANSCEIVER - FIBER OPTIC	EACH	1	1					
	5007	1.440		1.410				_
87301215 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,410		1,410				
87301225 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,340	315	2,025				
		40.470		2.4.0				
87301245 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	10,470	1,830	8,640				
87301255 ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	6,745	2,060	4,685				
2732426		2.22=	4.005					_
87301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6,895	1,995	4,900				
87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,530	470	2,060				
		_		_				
87502440 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1				
87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	9	1	8				
							<u> </u>	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 2 OF 6)

SHEET OF SHEETS STA.

TO STA.

SCALE:

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

VAR 2023 TRAFFIC MAST VARIOUS 47 6

CONTRACT NO. 62U32

1					CONSTRUCTION CODE					
No.					10% STATE	10% STATE				
100 110 100	CODE			TOTAL						1
2700.200 2700. MAST ANN ASSEMBLY AND POLE 28 FT. 2700.200 2701 MAST ANN ASSEMBLY AND POLE 28 FT. 2700.200 2701 MAST ANN ASSEMBLY AND POLE 28 FT. 2700.200 2701 MAST ANN ASSEMBLY AND POLE 28 FT. 2700.200 2701 MAST ANN ASSEMBLY AND POLE 20 FT. 2700.200 2701 MAST ANN ASSEMBLY AND	NO.	ITEM	UNIT							
							UR	BAN		
1779278 STEEL MOST ARM ADSCRIPT AND POLITION TO 1	87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	3		3				
1779278 STEEL MOST ARM ADSCRIPT AND POLITION TO 1										
1779278 STEEL MOST ARM ADSCRIPT AND POLITION TO 1										
2700202 STEEL WOT ARM ASSERVELY MID POLE, 36 FT. 6401 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1				
2700202 STEEL WOT ARM ASSERVELY MID POLE, 36 FT. 6401 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
2700202 STEEL WOT ARM ASSERVELY MID POLE, 36 FT. 6401 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
1	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1				
1										
1										
	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2		2				
7700280 STEEL MAST ARM ASSEMBLY AND FOLE 48 FT.	87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2	1	1				
7700280 STEEL MAST ARM ASSEMBLY AND FOLE 48 FT.										
7700280 STEEL MAST ARM ASSEMBLY AND FOLE 48 FT.										
7700280 STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	8		8				
7700280 STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
7700280 STEEL MAST ARM ASSEMBLY AND POLE, 48 FT. EACH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	4	2	2				
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.										
STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.										
7800100 CONCRETE FOUNDATION, TYPE A 30-INCH DIAMETER FOOT 20 4 16	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1		1				
7800100 CONCRETE FOUNDATION, TYPE A 30-INCH DIAMETER FOOT 20 4 16										
7800100 CONCRETE FOUNDATION, TYPE A 30-INCH DIAMETER FOOT 20 4 16										
7800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER FOOT 215.5 13.5 202	87700414	STEEL MAST ARM ASSEMBLY AND POLE, 66 FT.	EACH	1	1					
7800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER FOOT 215.5 13.5 202										
7800400 CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER FOOT 215.5 13.5 202										
7800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER FOOT 65 26 39	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	4	16				
7800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER FOOT 65 26 39										
7800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER FOOT 65 26 39										
7800420 CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER FOOT 28 28 28	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	215.5	13.5	202				
7800420 CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER FOOT 28 28 28										
7800420 CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER FOOT 28 28 28										
7900200 DRILL EXISTING HANDHOLE EACH 74 12 62	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	65	26	39				
7900200 DRILL EXISTING HANDHOLE EACH 74 12 62										
7900200 DRILL EXISTING HANDHOLE EACH 74 12 62	07000:00	COMPLETE FORWER THOSE S. 40 MOU DAMESTS			9-					
	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	28	28					
	07000									
	87900200	DRILL EXISTING HANDHOLE	EACH	74	12	62				
		<u>I</u>								
The state of the s						<u>, </u>				<u> </u>

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 2023 TRAFFIC MAST VARIOUS 47 7

CONTRACT NO. 62U32

				CONSTRUCTION CODE				
				90% FED 10% STATE WILL COUNTY	90% FED 10% STATE COOK COUNTY			
CODE	LTENA	LINITT	TOTAL			TRAFFIC SIGNALS		
NO.	ITEM	UNIT	QUANTITY			0021 URBAN		
						UNDAN		
8030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	40	7	33			
8030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	30	3	27			
38030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	20	5	15			
38030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	20	5	15			
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	22		22			
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	60	12	48			
38500100	INDUCTIVE LOOP DETECTOR	EACH	21	13	8			
88600100	DETECTOR LOOP, TYPE I	FOOT	482	66	416			
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	4			
89502200	MODIFY EXISTING CONTROLLER	EACH	1		1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	13,605	3,170	10,435			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1	5			
89502376	REBUILD EXISTING HANDHOLE	EACH	2		2			
89502380	REMOVE EXISTING HANDHOLE	EACH	14	1	13			

SCALE:

SU	MMARY	OF QU	ANTITIES	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	(SHE	ET 4 OF	6)	VAR	2023 TRAFFIC MAST	VARIOUS	47	8	
	(SIIL	LI 7 UI	U)			CONTRACT	NO. 62	2U32	
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

			CONSTRUCTION CODE					
			90% FED 10% STATE WILL COUNTY	90% FED 10% STATE COOK COUNTY				
CODE	LINIT	TOTAL				SIGNALS	•	
NO. ITEM	UNIT	QUANTITY				021 BAN		
20502205 REMOVE EVICTING CONCRETE FOUNDATION	FACIL	27		22				
89502385 REMOVE EXISTING CONCRETE FOUNDATION	EACH	27	5	22				
X0324085 EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,155	315	840				
VALORION OUTDOOR DATED METWORK GARLE	FOOT	00		0.0				
X1400102 OUTDOOR RATED NETWORK CABLE	FOOT	90		90				
X1400367 PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3		3				
V4.40070	5100							
X1400378 PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2		2				
X1400388 VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	6		6				
X1400424 ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	785		785				
X6700407 ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	6	1	5				
		_		_				
X8570215 FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2		2				
X8570226 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1	1					
		_						
X8620250 UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	2	1	1				
X8620310 REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	4		4				
X8760200 ACCESSIBLE PEDESTRIAN SIGNALS	EACH	22		22				
X8780012 CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20		20				
USER NAME - Iovan Plasconcia DESIGNED IP REVISED							I.F.A. I	COUNTY TOTAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 5 OF 6)

SHEET OF SHEETS STA. TO STA.

SCALE:

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

VAR 2023 TRAFFIC MAST VARIOUS 47 9

CONTRACT NO. 62U32

			l				
				90% FED 10% STATE WILL COUNTY	90% FED 10% STATE COOK COUNTY		
CODE			TOTAL		<u> </u>	TRAFFIC SIGNALS	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY			0021	
NO.			QUANTITY			URBAN	
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Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	411.2	102.8	308.4		1
							
							1
70077044	DE ODTIMIZE TRAFFIC CICNAL CYCTEM LEVEL 1	FACIL	_	1	1		
20033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2	1	1		
							1
							
Z0076600	TRAINEES	HOURS	500	500			1
	TRANSFER TRANSPORTANCE AREA	HOURS	500	F00			
20076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500			
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 DATE
 6/30/2023

PLOT SCALE = 100.0000 '/ in.

PLOT DATE - 6/30/2023

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES
(SHEET 6 OF 6)

[SHEET OF SHEETS STA. TO STA.

F.A. SECTION COUNTY TOTAL SHEET NO.

VAR 2023 TRAFFIC MAST VARIOUS 47 10 CONTRACT NO. 62U32

LILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

CCC MCC MMC MMMC MMMC F F BM BM BM P +P P P P P P P P P P P P	HANDHOLE -SQUARE -ROUND HEAVY DUTY HANDHOLE -SQUARE -ROUND DOUBLE HANDHOLE JUNCTION BOX RAILROAD CANTILEVER MAST ARM RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM		H B X X X X X X X X X X X X X	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		R Y G +Y +G P RB
MC MMC MMC MMC F P BM BM BM BM BM P +► P BM BM	HEAVY DUTY HANDHOLE -SQUARE -ROUND DOUBLE HANDHOLE JUNCTION BOX RAILROAD CANTILEVER MAST ARM RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM		X X X X X X X X X X X X X X X X X X X	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	P R R R R R R R R R R R R R	P R Y G Y G AY AG P RB
MMC	-SQUARE -ROUND DOUBLE HANDHOLE JUNCTION BOX RAILROAD CANTILEVER MAST ARM RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM		X X X X X X X X X X X X X X X X X X X	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	P R R R R R R R R R R R R R	P R Y G AY G AY G AY G AY C AY C AY C AY C
P G G G M G M G M H D BM BM D H P H P	JUNCTION BOX RAILROAD CANTILEVER MAST ARM RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM		IO YeX YeX YeX A	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	P RB	Y C C AY C C AY C C AY C C C AY C C C C
F G G M G M F BM BM P +P P +P	RAILROAD CANTILEVER MAST ARM RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM		XOX XOX XOX XOX	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	P RB	Y C AY C
● ★ BM ● BM → P + P	RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM	X0X	¥◆¥ ★	AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	P RB	P RB
● ★ BM ● BM → P + P	RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM			AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	P RB	P RB
● ★ BM ● BM → P + P	RAILROAD CROSSBUCK RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM	** ** ** ** ** ** ** **		AT RAILROAD INTERSECTIONS PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	C A D	₽ C ★ D
●	RAILROAD CONTROLLER CABINET UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM	<u>⊠</u> 	▶ ∢ 	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	C A D	₽ C ★ D
● BM → - + P → P + P	UNDERGROUND CONDUIT (UC), GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM			WITH COUNTDOWN TIMER ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		* D
● BM → - + P → P + P	GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM	S I	SP IP R	ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
● BM → - + P → P + P	TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM	S I	SP IP R	"NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
 → +→ → p +→ 	INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM	S I	SP IP R	CABLE NO. 14, UNLESS NOTED OTHERWISE.		
 → +→ → p +→ 	REMOVE ITEM RELOCATE ITEM	I	IP R			
>	RELOCATE ITEM		R	ALL DETECTOR LOOP CABLE TO BE SHIELDED		
+ 				GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	
+ > -> P +> P	ABANDON ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
→ P + → P			А	NO. 14 1/C		
	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	— <u>C</u> —	<u> </u>
	MAST ARM POLE AND		RMF	VENDOR CABLE		
•► FS FS	FOUNDATION TO BE REMOVED		I (III)	COPPER INTERCONNECT CABLE,	,	(6#18)
FS FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	NO. 18, 3 PAIR TWISTED, SHIELDED	<u>—(6#18)</u>	
-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	— <u>12</u> F	—(12F)—
	PREFORMED DETECTOR LOOP	PP	PP	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		—(24F)—
R	SAMPLING (SYSTEM) DETECTOR	s s	s s			—(36F)—
V ■	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (IS)	IS (IS)			
	QUEUE AND SAMPLING	QS QS	os os	GROUND ROD -(C) CONTROLLER	± ^C ± ^M ± ^P ± ^S	$\dot{\bar{\mp}}^{C} \ \dot{\bar{\mp}}^{M} \ \dot{\bar{\mp}}^{P} \ \dot{\bar{\mp}}^{S}$
PTZ				-(P) POST		
~		_	<u> </u>	(5, 525		
· ·	WIRELESS ACCESS POINT		_			
		SAMPLING (SYSTEM) DETECTOR INTERSECTION AND SAMPLING (SYSTEM) DETECTOR QUEUE AND SAMPLING (SYSTEM) DETECTOR WIRELESS DETECTOR SENSOR WIRELESS ACCESS POINT HILL HI	SAMPLING (SYSTEM) DETECTOR INTERSECTION AND SAMPLING (SYSTEM) DETECTOR QUEUE AND SAMPLING (SYSTEM) DETECTOR QUEUE AND SAMPLING (SYSTEM) DETECTOR WIRELESS DETECTOR SENSOR WIRELESS ACCESS POINT WIRELESS ACCESS POINT	SAMPLING (SYSTEM) DETECTOR S S S S S S S S S S S S S S S S S S S	PREFORMED DETECTOR LOOP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PREFORMED DETECTOR LOOP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP

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DATE - 9/29/2016

PLOT SCALE = 100,0000 / in.

PLOT DATE = 6/29/2023

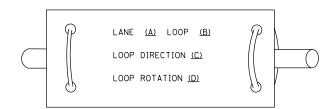
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S	TANDA	RD	TRAF	FIC	SIGNAL	. DESIGN	DETAILS
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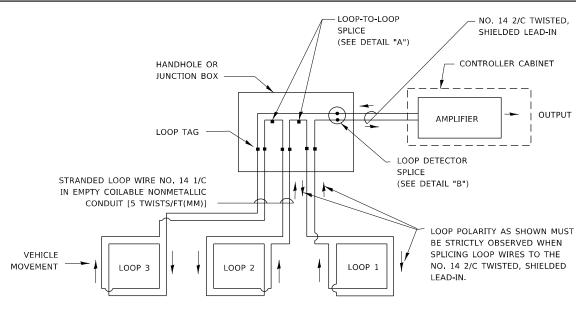
LOOP DETECTOR NOTES

- 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.
- 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

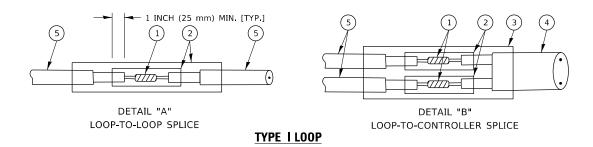


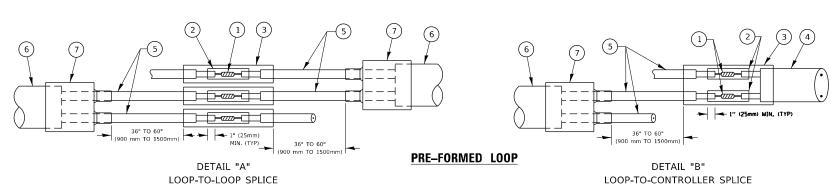
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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 = 6/29/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 2 OF 7 SHEETS STA. TO STA.

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

 VAR
 2023 TRAFFIC MAST
 VARIOUS
 47
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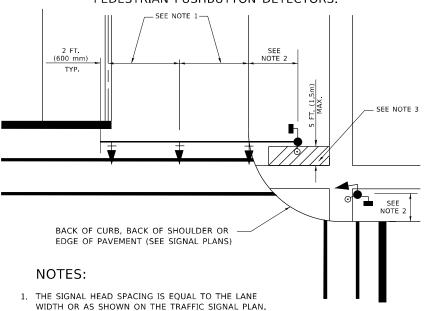
 TS-05
 CONTRACT NO. 62U32

 ILLINOIS
 FED. AID PROJECT

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

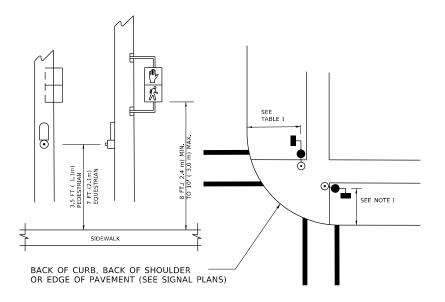
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



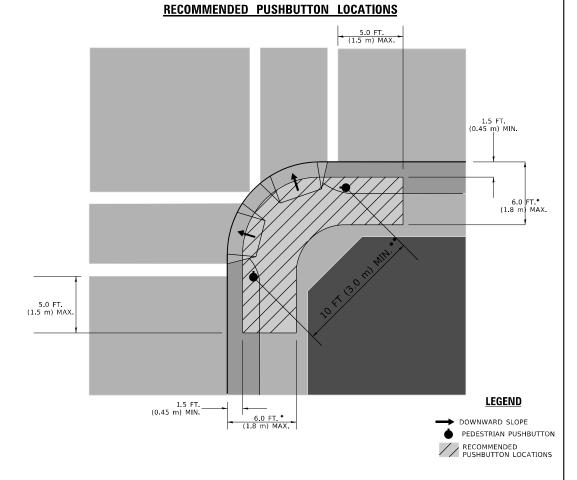
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE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

<u> </u>										
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:

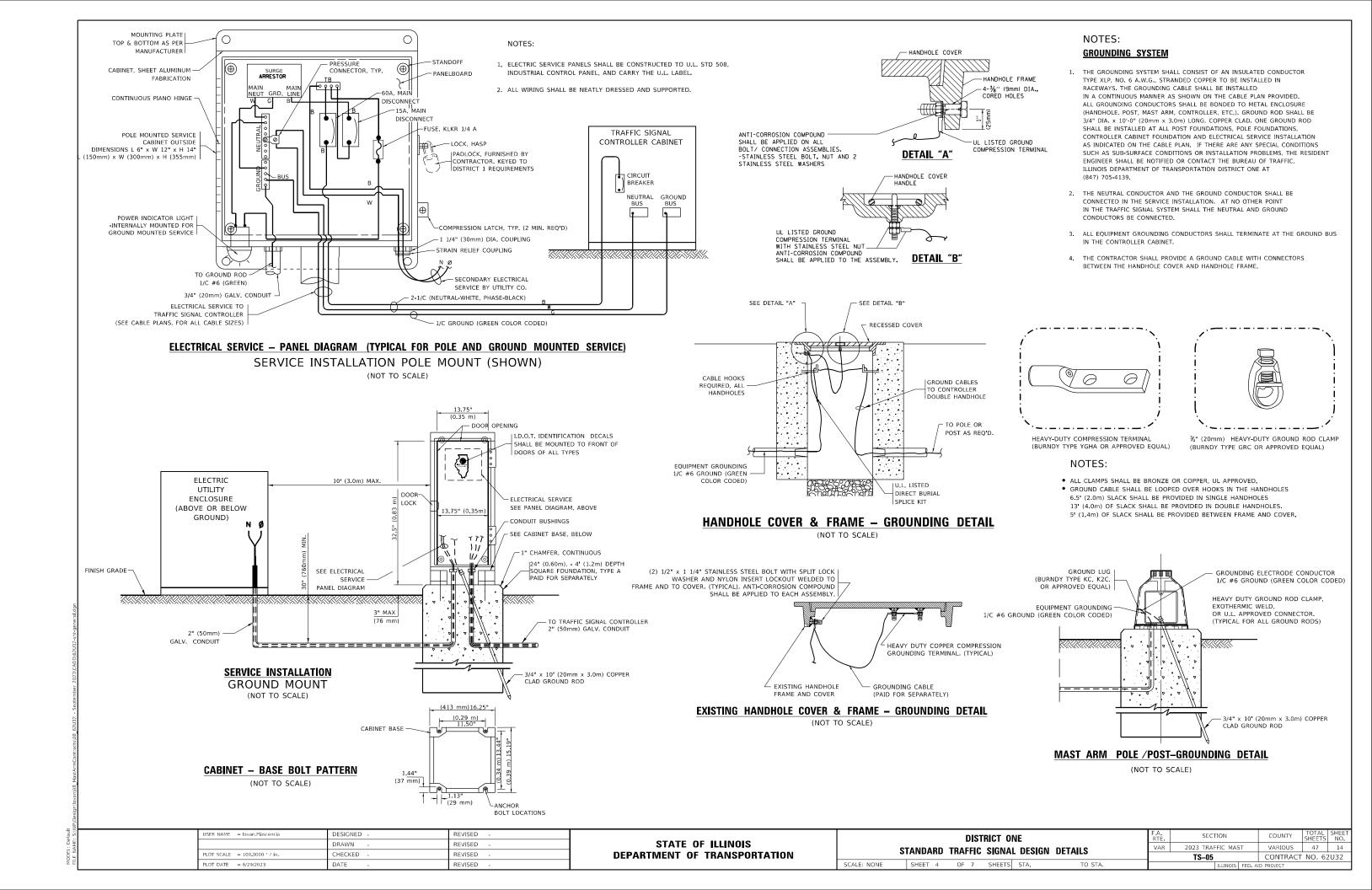
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2, MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

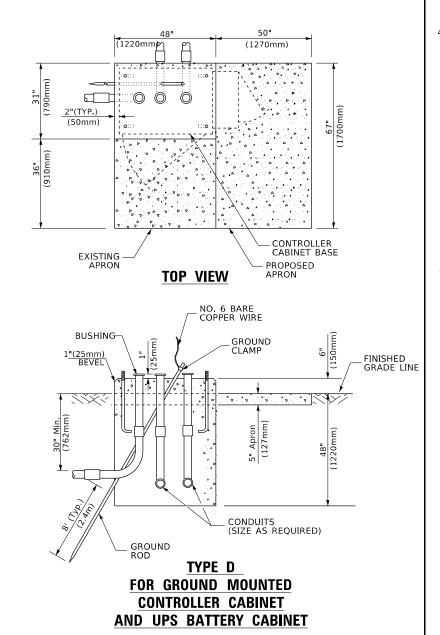
SCALE: NONE

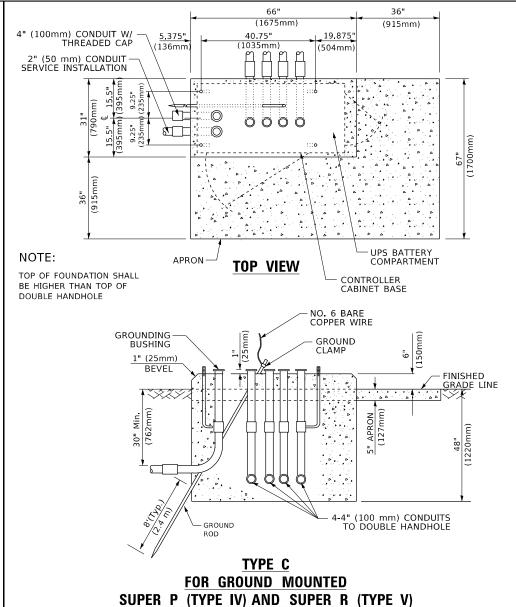
USER NAME = Iovan,Plascencia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 6/29/2023	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	VAR	2023 TRAFFIC MAST	VARIOUS	47	13
STANDARD HIATTIC SIGNAL DESIGN DETAILS	TS-05 CONTRACT NO. 62				2U32
SHEET 3 OF 7 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				







CONTROLLER CABINETS

SEE NOTE 5— (1245mm)
= E\ 44"16"
7 [(406mm) (406mm)
2½" "[64mm] " " " " " " " " " " " " " " " " " "
[64mm) [25mm] [2
2" x 6" (51mm x 152mm) WOOD FRAMING (TYP.)
TRAFFIC SIGNAL
UPS CABINET
¾" (19mm) TREATED PHYWOOD DECK
2" x 6" (51mm x 152mm)
=10
305mm 305mm
219mm)\(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
(1219 mm)
NOTES:
 BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
 BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.

49" (SEE NOTE 3) (1245mm)

SEE NOTE 5-

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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1,5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

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

VERTICAL CABLE LENGTH

CABLE SLACK

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

DEPTH OF FOUNDATION

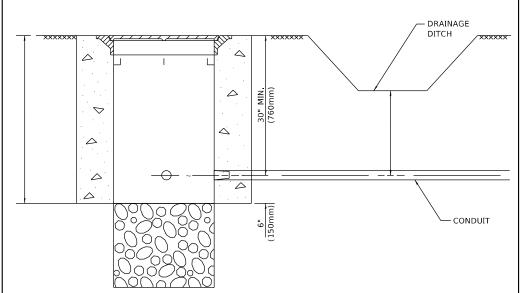
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)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

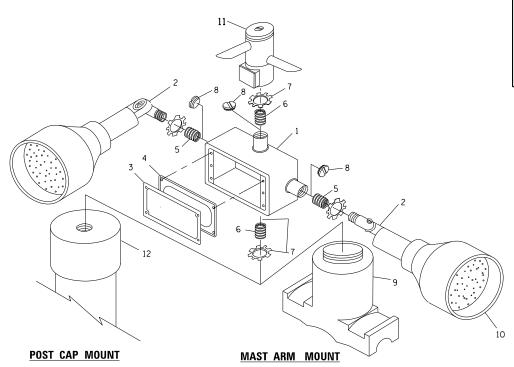
USER NAME = Iovan Plascencia	DESIGNED -	REVISED -		DISTRICT ONE	F.A. BTF	SECTION	COUNTY TOTAL SHEE	ΞT
	DRAWN -	REVISED -	STATE OF ILLINOIS		VAR	2023 TRAFFIC MAST	VARIOUS 47 15	. 1
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO. 62U32	. 1
PLOT DATE = 6/29/2023	DATE -	REVISED -		SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT	\neg



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



MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION

BEACON MOUNTING DETAIL

 USER NAME
 = tovan.Plascencia
 DESIGNED
 REVISED

 DRAWN
 REVISED

 PLOT SCALE
 = 100,0000 ' / in
 CHECKED
 REVISED

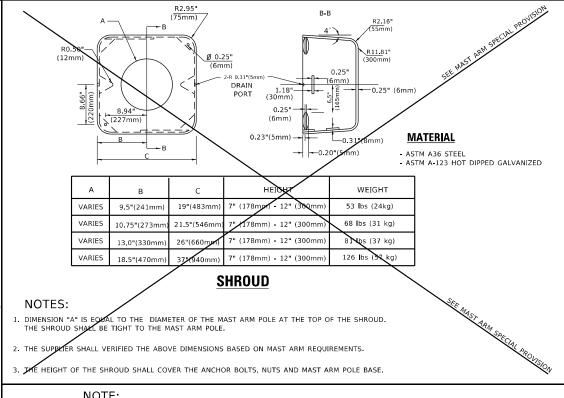
 PLOT DATE
 = 6/29/2023
 DATE
 REVISED

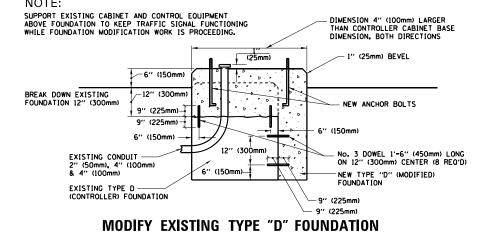
(1675mm) (915mm) 19.875" (1035mm) (504mm) <u>___</u> 0 CONTROLLER CABINET BASE PROPOSED-**TOP VIEW** APRON -NO. 3 DOWEL 18" (450mm NO. 6 BARE COPPER WIRE LONG (8 REQ.) BUSHING-_GROUND CLAMP EXISTING-ANCHOR BOLTS FINISHED GRADE LINE 1"(25mm) BEVEL (300 mm)(300 mm)12" (300mm) (225mm) -EXISTING CONDUITS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

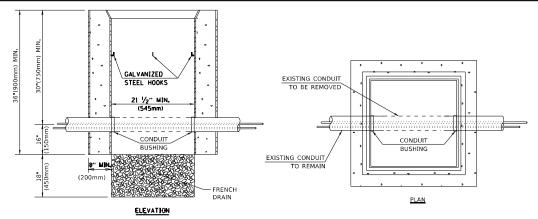
ITEM NO. IDENTIFICATION 1 OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 ¾"(19 mm) CLOSE NIPPLE 7 ¾"(19 mm) LOCKNUT 8 ¾"(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST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

NOTES:

- 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.





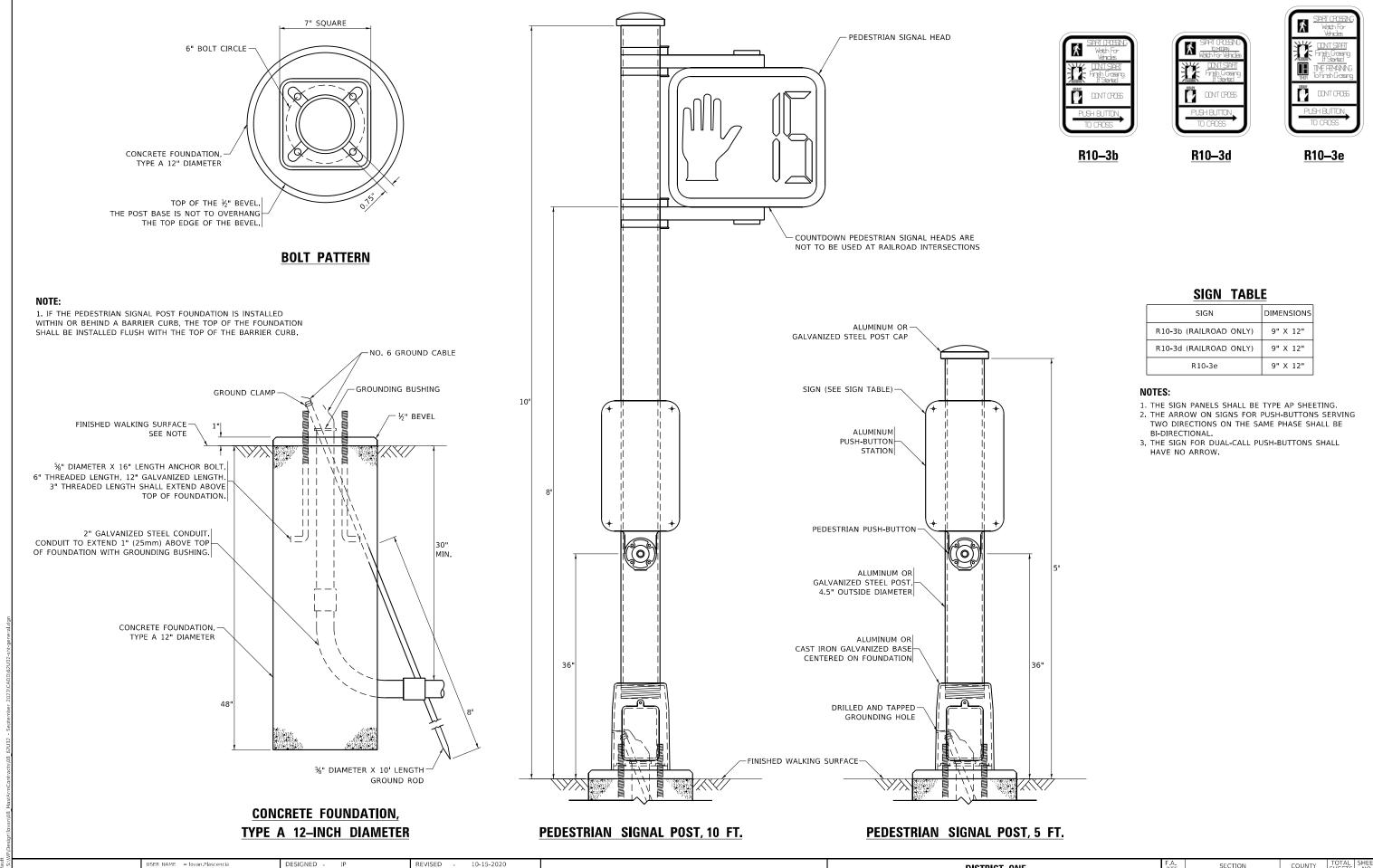


NOTES

- 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



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET 7 OF 7 SHEETS STA.

VAR

2023 TRAFFIC MAST

VARIOUS

CONTRACT NO. 62U32

47 17

MODEL: Default

DRAWN

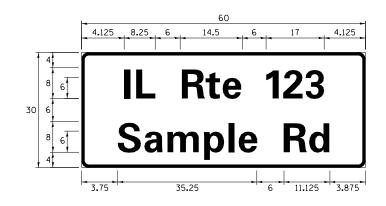
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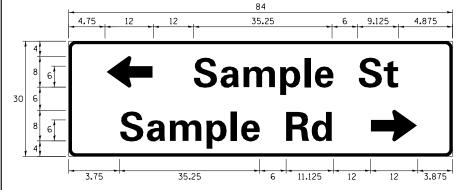
REVISED

REVISED

SIGN PANEL – TYPE 1 OR TYPE 2

3.75 11.125 3.875 Sample Rd





ĺ	DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
l	SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
Ī	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	PI	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
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-O". ALL BORDERS SHALL BE 34" 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

LOCAL SUPPLIERS: PARTS LISTING:

- J.O. HERBERT COMPANY, INC SIGN CHANNEL MIDLOTHIAN, VA SIGN SCREWS - WESTERN REMAC, INC.

WOODRIDGE, IL

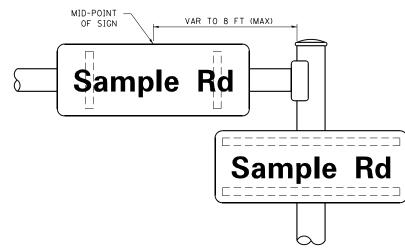
PART #HPN053 (MED. CHANNEL) 1/4" \times 14 \times 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER BRACKETS PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

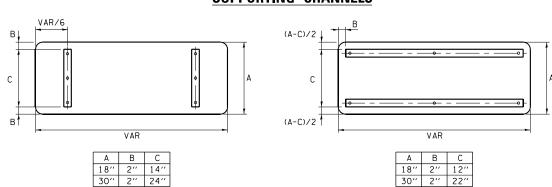
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



SCALE: NTS

STANDARD ALPHABETS SPACING CHART

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

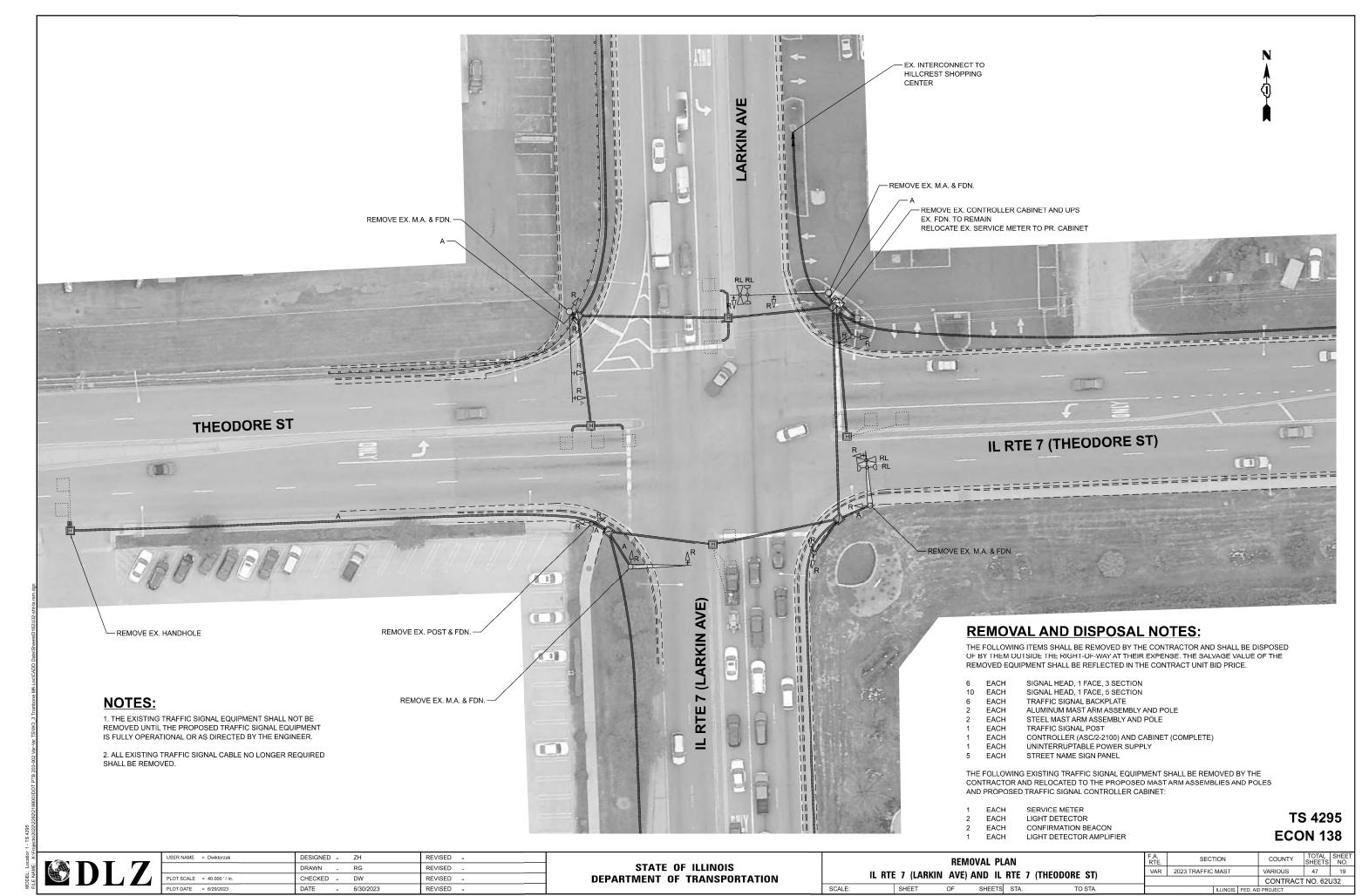
FHWA SERIES "C"					FHWA SEF	RIES "D"	
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
А	0.240	5.122	0.240	Α	0.240	6.804	0.240
В	0.880	4.482	0.480	В	0.960	5.446	0.400
С	0.720	4.482	0.720	С	0.800	5.446	0.800
D	0.880	4.482	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 5.446	0.240
G	0.720 0.880	4. 482 4. 482	0.720 0.880	G H	0.800 0.960	5.446	0.800
H 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	Ĺ	0.960	4.962	0.240
M	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
<u>S</u>	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 W	0.240 0.240	4.962 6.084	0.240	V W	0.240	6.084 7.124	0.240
X	0.240	4. 722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Ŷ	0. 400	6. 884	0.240
Z	0.480	4. 482	0.480	Z	0.400	5.446	0.400
0	0.320	3.842	0.640	a	0.400	4.562	0.720
Ь	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
Ī	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	4. 322	0.160	k I	0.800	5.122	0.160
	0.720 0.720	1.120 6.724	0.720	m m	0.800	1.280 7.926	0.800
m n	0.720	4.082	0.640	n	0.800	4. 722	0.720
0	0. 120	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
q	0.480	4.082	0.720	q	0.480	4. 802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3. 362	0.240	s	0.320	3. 762	0.240
+	0.080	2.882	0.080	+	0.080	3. 202	0.080
C	0.640	4.082	0.720	U	0.720	4.722	0.800
٧	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	0.000	×	0.000	6. 244	0.000
У	0.160	4.962	0.160	У	0.160	6.004	0.160
Z 1	0.240	3.362	0.240	Z 1	0.240	4.002	0.240
2	0.720	1.680	0.880	2	0.800	2.000	0.960
3	0.480 0.480	4.482 4.482	0.480	3	0.800 1.440	5.446 5.446	0.800
4	0.480	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

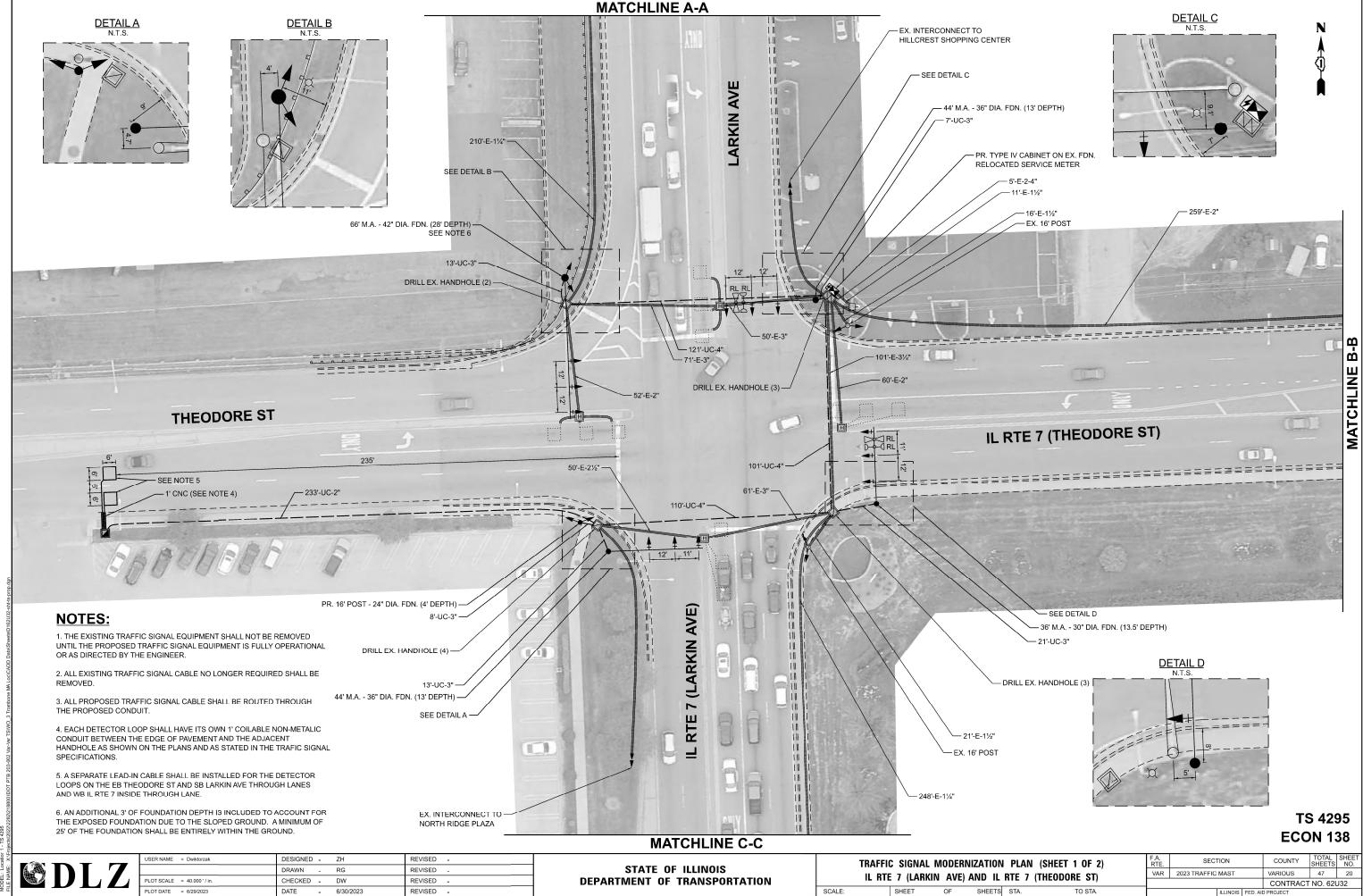
USER NAME = Iovan Plascencia	DESIGNED	-	IP	REVISED -
	DRAWN	-	IP	REVISED -
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PLOT DATE = 6/29/2023	DATE	-	10/15/2018	REVISED -

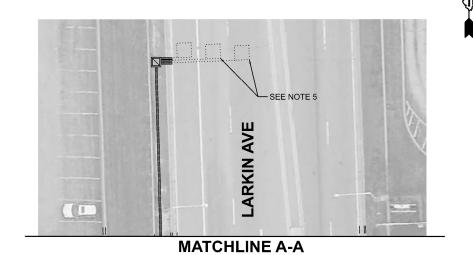
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

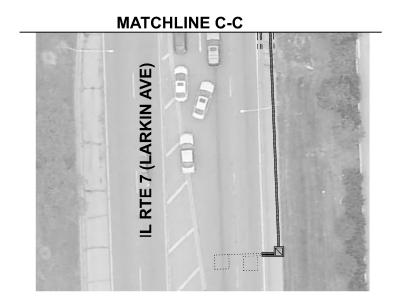
SECTION DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS TS-02 SHEET NO. 7 OF 7 SHEETS STA.

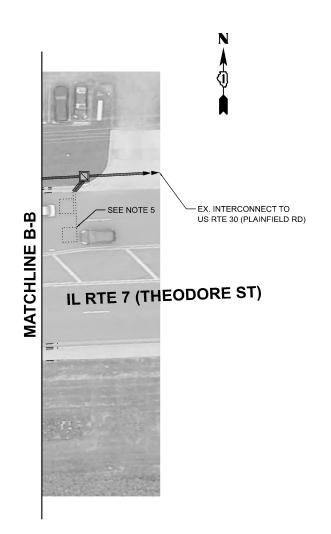
VARIOUS 2023 TRAFFIC MAST 47 18 CONTRACT NO. 62U32











TS 4295 **ECON 138**



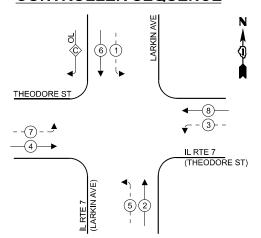
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	DRAWN	-	RG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED	-	DW	REVISED -	
PLOT DATE = 6/29/2023	DATE	-	6/30/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2) IL RTE 7 (LARKIN AVE) AND IL RTE 7 (THEODORE ST) OF SHEETS STA.

SECTION VAR 2023 TRAFFIC MAST

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND

◆ * PROTECTED PHASE

← - (*)- - PROTECTED/PERMITTED PHASE

◆-(*)- PEDESTRIAN PHASE

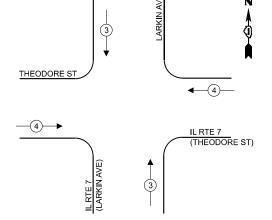
OVERLAR

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP PERMISSIVE PROTECTED PHASE

C = 6 + 7

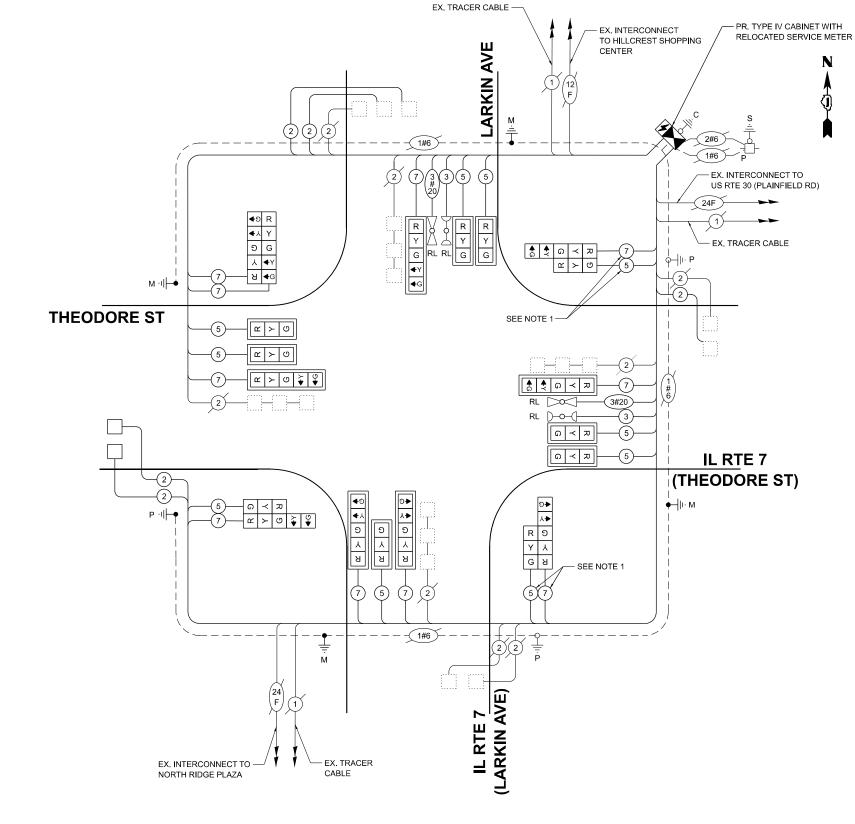
EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL
SERVICE REQUIREMENTS

<u> </u>	,		•
EQUIDMENT TYPE	OLIANITITY	UNIT	TOTAL
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	-	15	-
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	-	35	-
CELLULAR MODEM	-	15	-
	TOTAL UF	'S SIZING	415
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	SERVICE WIF	RE SIZING	1,020
	4-SECTION 5-SECTION PROGRAMMABLE 3-SECTION 4-SECTION 5-SECTION 5-SECTION PEDESTRIAN SIGNAL CONTROLLER MASTER CONTROLLER UPS DETECTION RADAR OR VIDEO BLANK-OUT SIGN NETWORK SWITCH II OR III CELLULAR MODEM UPS CHARGING BATTERY HEATER MAT CABINET HEATER FLASHER LED STREET NAME SIGN LUMINAIRE	SIGNAL HEAD 1 OR 3-SECTION 10 4-SECTION - 5-SECTION 10 PROGRAMMABLE 3-SECTION 4-SECTION - 5-SECTION - CONTROLLER 1 MASTER CONTROLLER 1 UPS 1 DETECTION RADAR OR VIDEO BLANK-OUT SIGN - NETWORK SWITCH II OR III CELLULAR MODEM - TOTAL UF UPS CHARGING 1 BATTERY HEATER MAT 1 CABINET HEATER 1 FLASHER - LED STREET NAME SIGN - LUMINAIRE -	SIGNAL HEAD

ENERGY COSTS TO: CITY OF CREST HILL 20600 CITY CENTER BLVD CREST HILL, IL 60403 ENERGY SUPPLY: CONTACT: TIM COSLET PHONE: (815)-724-5010 COMPANY: COMED ACCOUNT NUMBER: 07231-21515 METER NUMBER:



CABLE PLAN

(NOT TO SCALE)

NOTES:

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

TS 4295 ECON 138



USER NAME = Dwiktorzak	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 6/29/2023	DATE	-	6/30/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 7 (LARKIN AVE) AND IL RTE 7 (THEODORE ST)

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

 VAR
 2023 TRAFFIC MAST
 VARIOUS
 47
 22

 CONTRACT NO. 62U32

SIGN PANEL - TYPE 1 OR TYPE 2

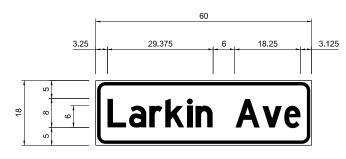
ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



12.5

NOTE: INSTALL THIS SIGN BACK TO BACK ON THE THE EASTBOUND MAST ARM.

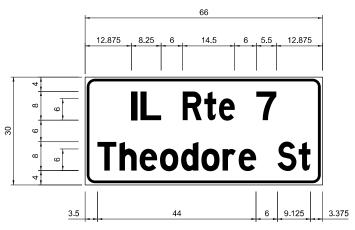
ZZ



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

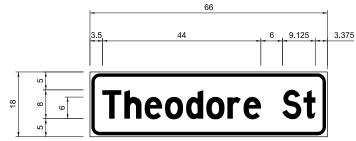
NOTE:

INSTALL THIS SIGN BACK TO BACK ON THE THE WESTBOUND MAST ARM.



	DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
	SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
Ī	D	13.75	2	ZZ	2

NOTE:
INSTALL THIS SIGN BACK TO BACK ON THE THE NORTHBOUND MAST ARM.



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

NOTE:

INSTALL THIS SIGN BACK TO BACK ON THE THE SOUTHBOUND MAST ARM.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQFT	31.5
SIGN PANEL - TYPE 2	SQFT	52.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	233
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	62
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	332
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	315
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1830
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2060
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1995
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	470
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 66 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	26
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	13
DETECTOR LOOP, TYPE I	FOOT	66
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3170
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	315
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

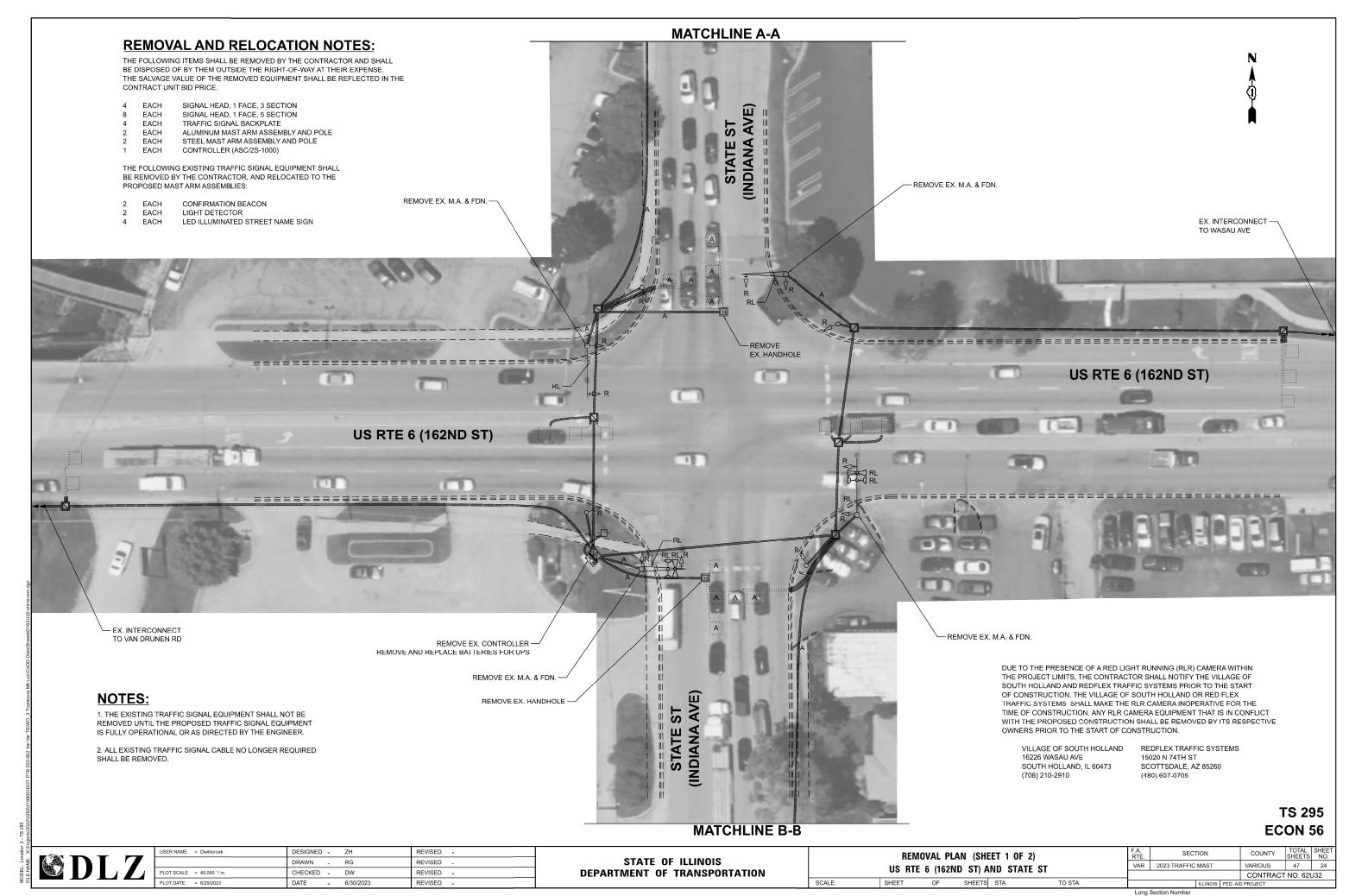
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAIL.

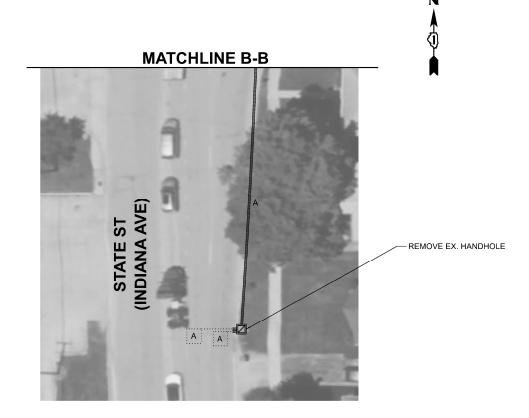
> TS 4295 ECON 138



USER NAME = Dwiktorzak	DESIGNED	-	ZH	REVISED	-
	DRAWN	-	RG	REVISED	-
PLOT SCALE = 40.000 '/in.	CHECKED	-	DW	REVISED	-
PLOT DATE = 6/29/2023	DATE	-	6/30/2023	REVISED	-

М	AST					NAME SIGNS	
		AND	SCHED	ULE OF	QUAN'	TITIES	
RTE	7 (LARKIN	AVE)	AND IL	RTE 7	7 (THEODORE	ST)
	CHEE	т	OF	CHEETO	CTA		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.

TS 295 ECON 56

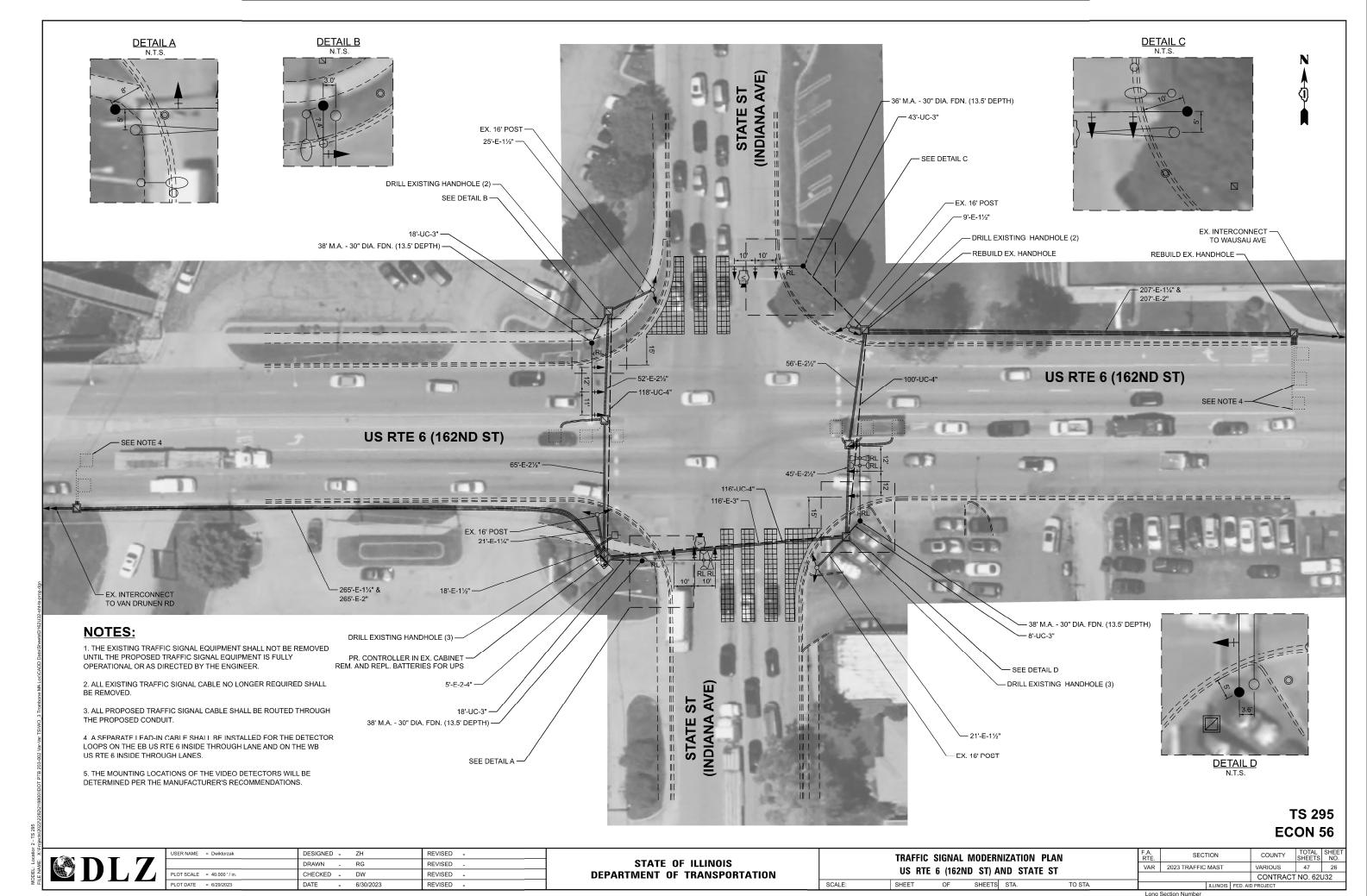


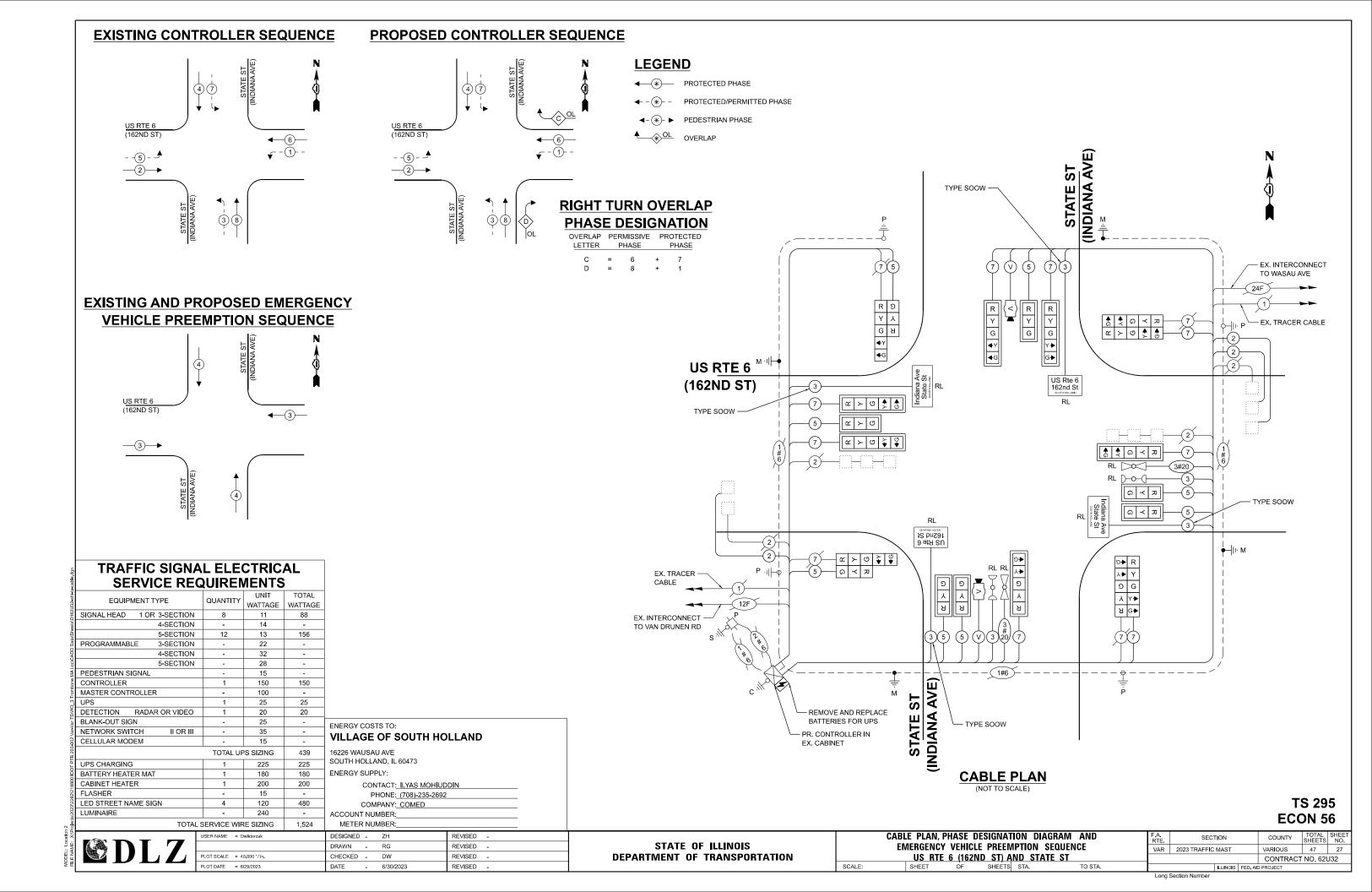
USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/29/2023	DATE - 6/30/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

REMOVAL PLAN (SHEET 2 OF 2)						
	US RTE	6 (1621	ID ST) A	ND STATE	ST	
	SHEET	OF	SHEETS	STA	TO STA	





SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	87
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	334
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	320
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1385
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1900
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR	FOOT	1225
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	535
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	3
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	54
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2900
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	320
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	785
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 295 **ECON 56**



USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED - DW	REVISED -
PLOT DATE = 6/29/2023	DATE - 6/30/2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES US RTE 6 (162ND ST) AND STATE ST SHEET OF SHEETS STA.

 SECTION
 COUNTY SHEETS NO.
 SHEET NO.

 FFIC MAST
 VARIOUS
 47
 28

 CONTRACT NO. 62U32

 ILLINOIS
 FED. AID PROJECT
 SECTION VAR 2023 TRAFFIC MAST

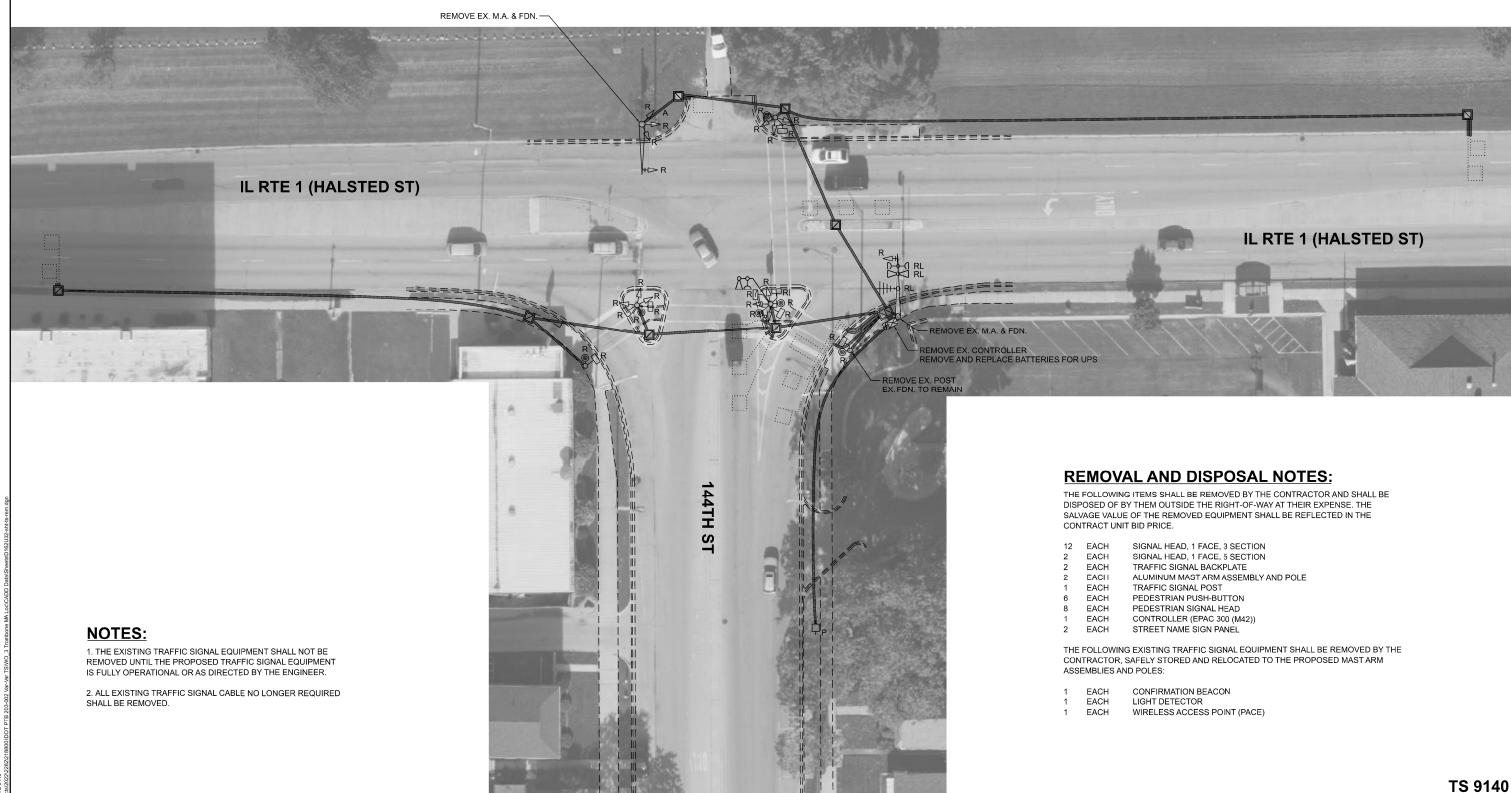
DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF RIVERDALE AND REDFLEX TRAFFIC SYSTEMS PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OF RIVERDALE OR REDFLEX TRAFFIC SYSTEMS SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

VILLAGE OF RIVERDALE 157 W 144TH ST RIVERDALE, IL 60827

(708) 841-2200

REDSPEED, ILLINOIS, LLC 400 EISENHOWER LANE NORTH LOMBARD, IL 60148



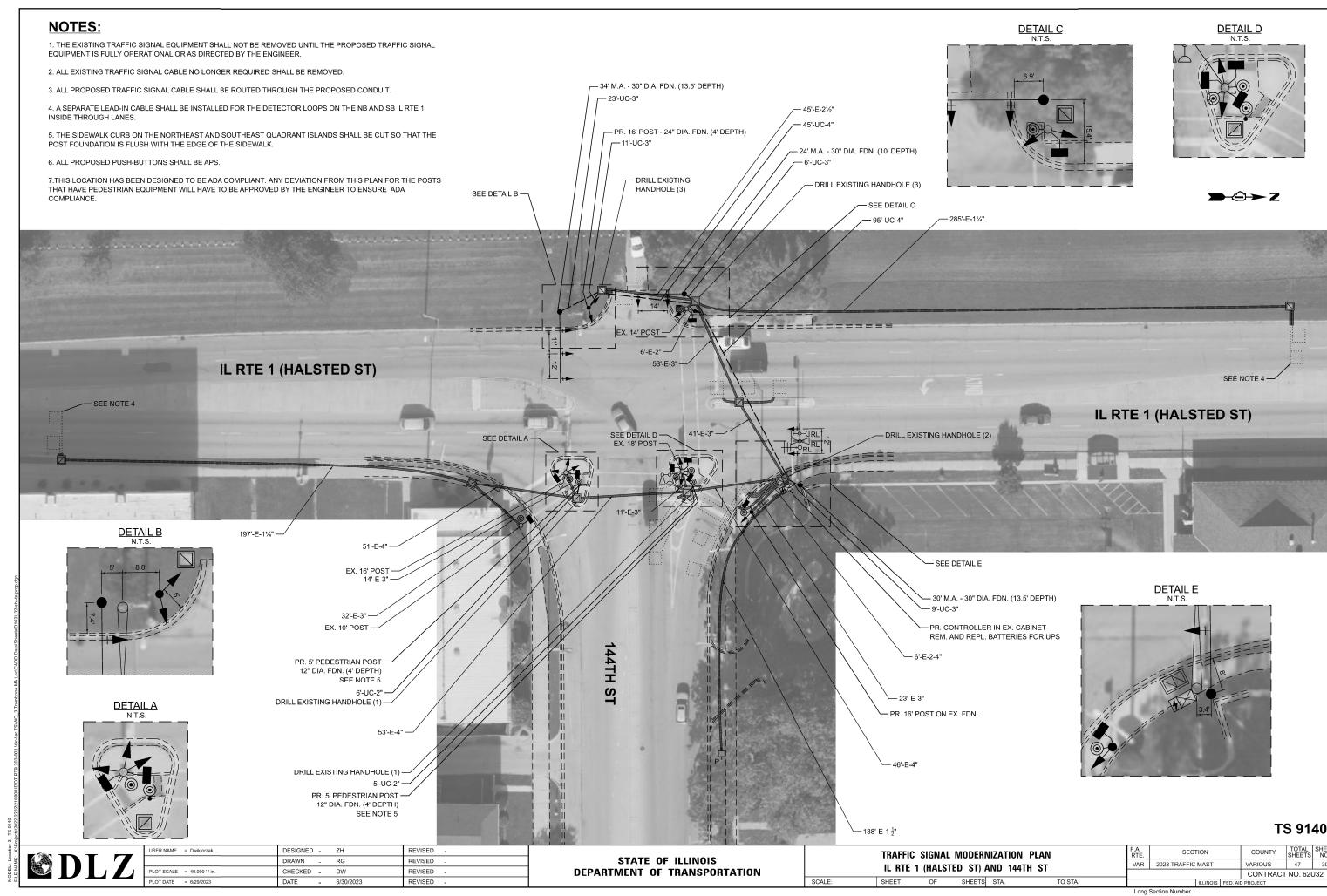


DESIGNED - ZH REVISED -DRAWN RG REVISED CHECKED - DW REVISED -REVISED -- 6/30/2023

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN IL RTE 1 (HALSTED ST) AND 144TH ST OF SHEETS STA.

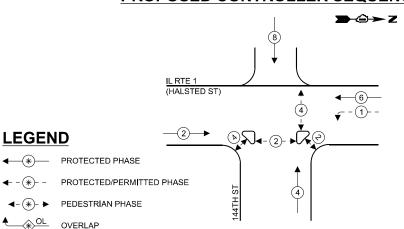
SECTION COUNTY VAR 2023 TRAFFIC MAST VARIOUS 47 29 CONTRACT NO. 62U32



EXISTING CONTROLLER SEQUENCE

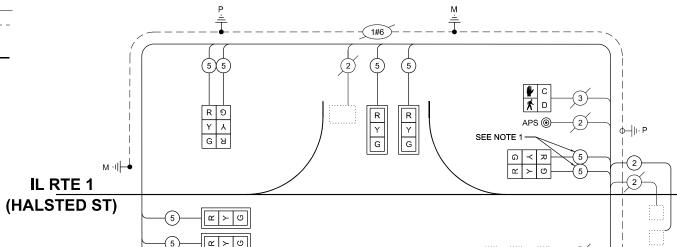
>-©→ Z IL RTE 1 (HALSTED ST)

PROPOSED CONTROLLER SEQUENCE

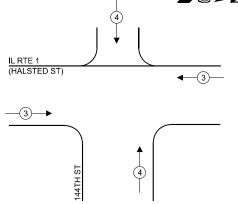


NOTES:

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



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



IL RTE 1	J 4	> -©→ Z
(HALSTED ST)		← 3

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS QUANTITY UNIT TOTAL

N32	EQUIPMENT TYPE	QUANTITY	WATTAGE	WATTAGE
0162	SIGNAL HEAD 1 OR 3-SECTION	15	11	165
ets)	4-SECTION	-	14	-
a\She	5-SECTION	2	13	26
Dat	PROGRAMMABLE 3-SECTION	-	22	-
Ä	4-SECTION	-	32	-
)\oo¬	5-SECTION	-	28	-
Ā	PEDESTRIAN SIGNAL	8	15	120
poue	CONTROLLER	1	150	150
Lou	MASTER CONTROLLER	-	100	-
3	UPS	1	25	25
SIW	DETECTION RADAR OR VIDEO	-	20	-
/ar T	BLANK-OUT SIGN	-	25	-
Var.	NETWORK SWITCH II OR III	-	35	-
-005	CELLULAR MODEM	-	15	-
ojects/2022/2282/218800 IDOT PTB 203-002 Var Var TS\WO_3 Trombone MA Loc\CADD Data\Sheets\D162U32-		TOTAL UF	'S SIZING	486
E	UPS CHARGING	1	225	225
ĕ	BATTERY HEATER MAT	1	180	180
880	CABINET HEATER	1	200	200
82/2	FLASHER	-	15	-
2/22	LED STREET NAME SIGN	-	120	-
s/202	LUMINAIRE	-	240	-
oject.	TOTAL S	SERVICE WIF	RE SIZING	1,091

ENERGY COSTS TO: **VILLAGE OF RIVERDALE** 157 WEST 144TH ST RIVERDALE, IL 60827 ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN PHONE: (708)-235-2692 COMPANY: COMED ACCOUNT NUMBER: METER NUMBER:

∝ ≻ 0 * 0 WIRELESS ACCESS POINT - PR. CONTROLLER IN EX. CABINET 44TH ST

CABLE PLAN

TS 9140



EQUIDMENT TYPE

.,,,,,,		
USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED - DW	REVISED -
PLOT DATE = 6/29/2023	DATE - 6/30/2023	REVISED -

LEGEND

◆ OL OVERLAP

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 1 (HALSTED ST) AND 144TH ST SHEET OF SHEETS STA.

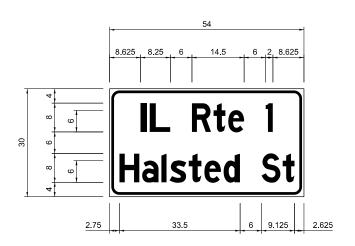
REMOVE AND REPLACE BATTERIES FOR UPS

> SECTION COUNTY VARIOUS 47 31 VAR 2023 TRAFFIC MAST CONTRACT NO. 62U32

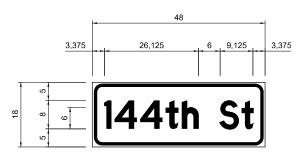
 $\Rightarrow \hat{\cong} \rightarrow Z$

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
D	11.25	2	ZZ	1



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

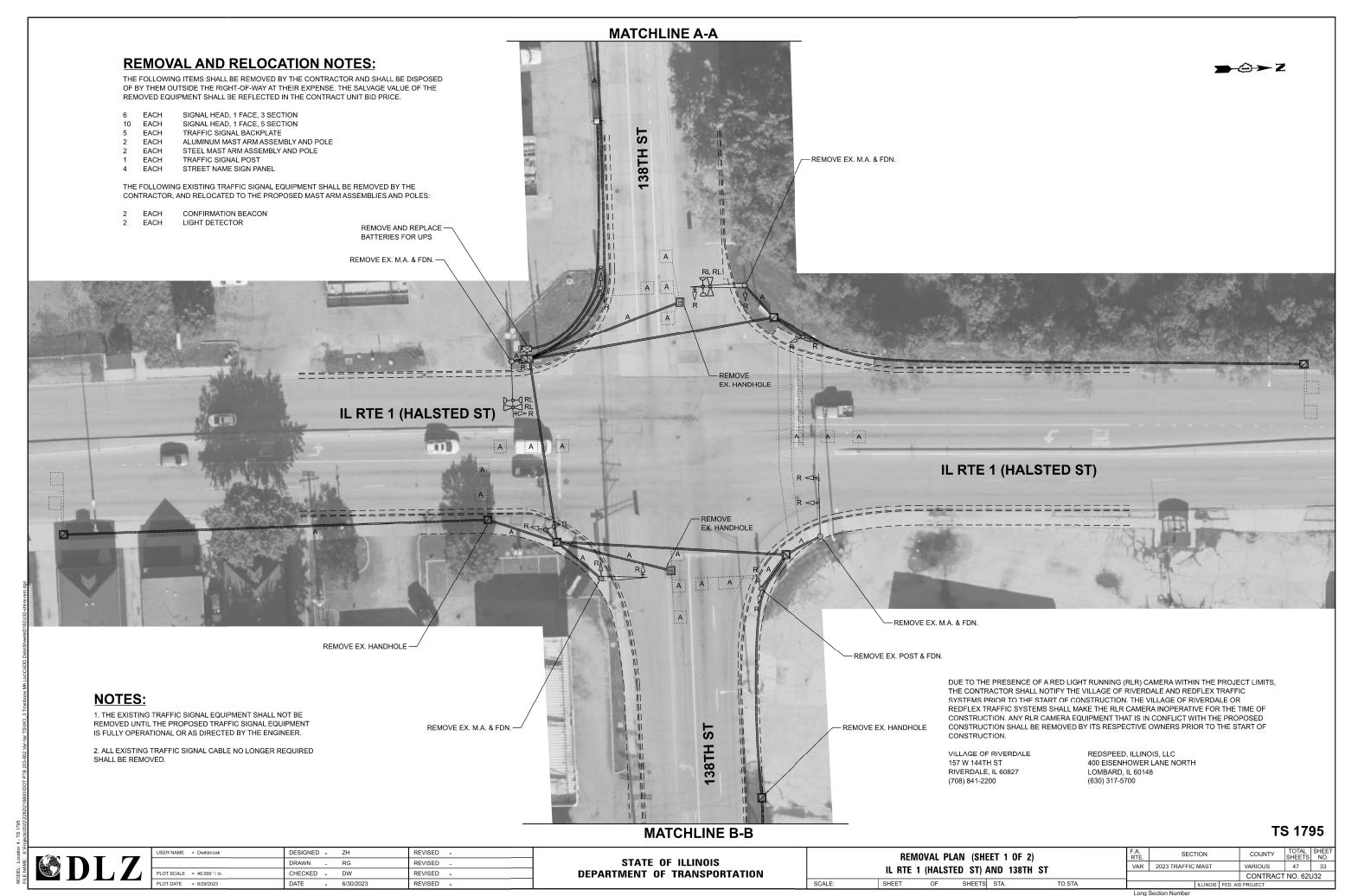
NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE
DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQFT	11.25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	49
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	140
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	245
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	90
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1755
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	260
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	815
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	270
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	9
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	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	715
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	90
OUTDOOR RATED NETWORK CABLE	FOOT	90
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

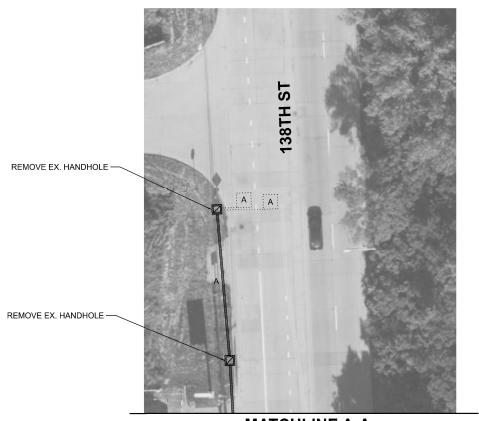
TS 9140

USER NAME = Dwiktorzak	DESIGNED -	ZH	REVISED -
	DRAWN -	RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED -	DW	REVISED -
PLOT DATE = 6/29/2023	DATE -	6/30/2023	REVISED -

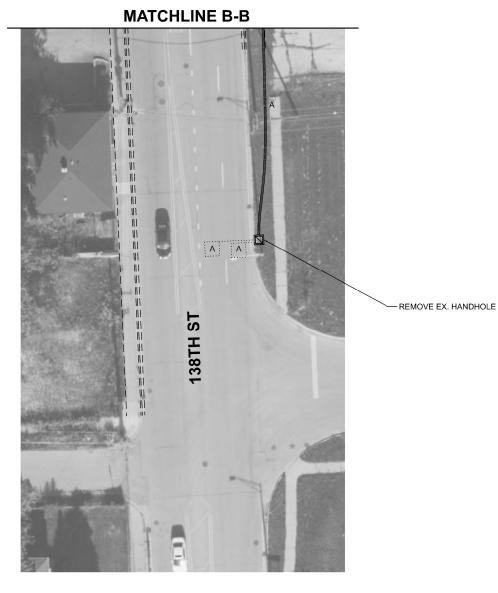


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MATCHLINE A-A



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.

USER NAME = Dwiktorzak	DESIGNED	-	ZH	REVISED -	
	DRAWN	-	RG	REVISED -	
PLOT SCALE = 40.000 ' / in.	CHECKED	-	DW	REVISED -	
PLOT DATE = 6/29/2023	DATE	-	6/30/2023	REVISED -	
					_

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

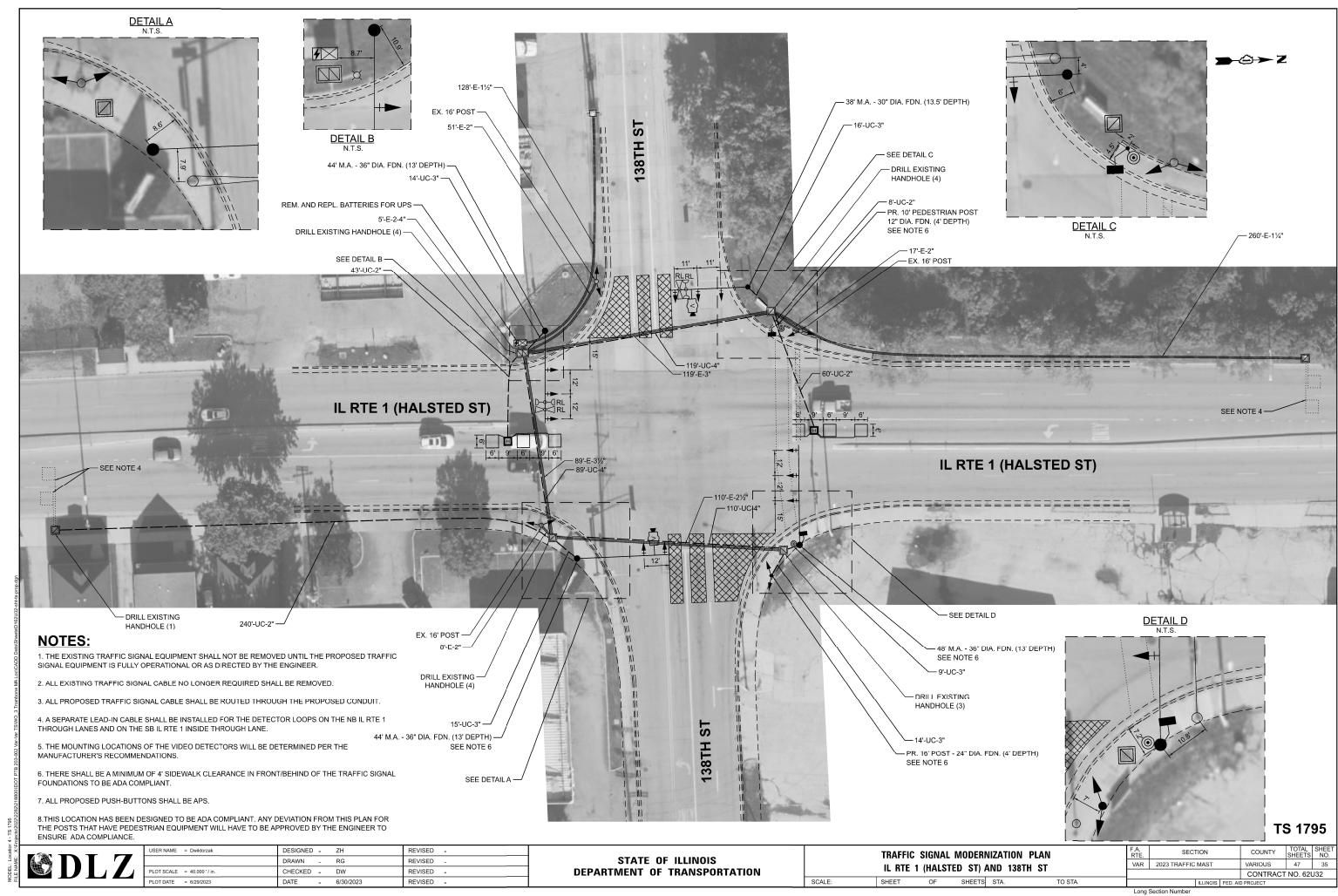
SCALE:

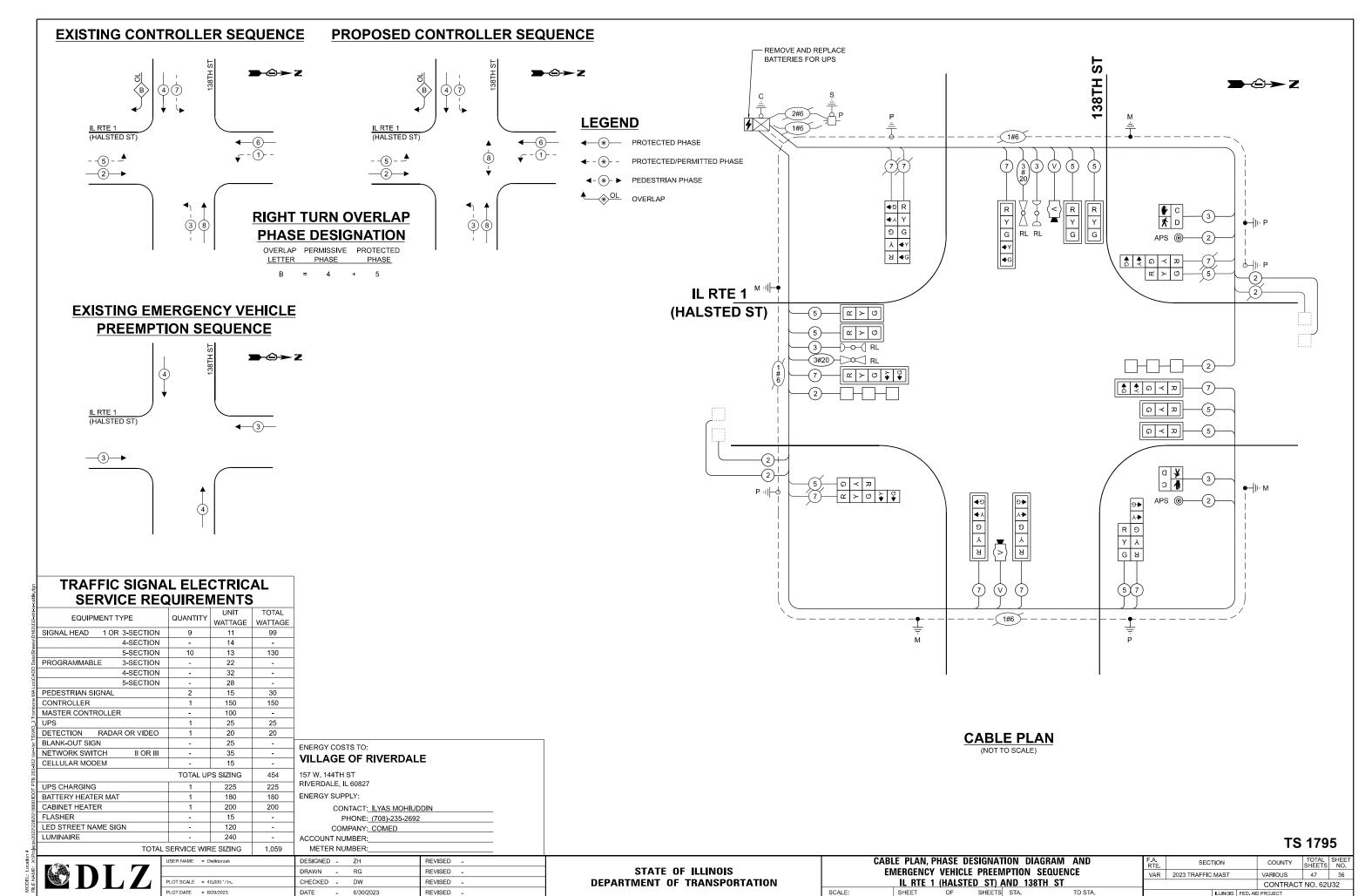
REM	OVAL PLA	N (SHEET 2	2 OF 2)		_
IL RTE 1	(HALSTE	D ST) AND	138TH ST		
		0115550		E0.0E4	_

COUNTY TOTAL SHEETS NO.

VARIOUS 47 34 SECTION VAR 2023 TRAFFIC MAST CONTRACT NO. 62U32

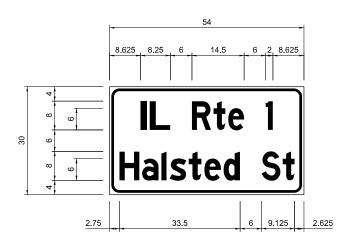
TS 1795



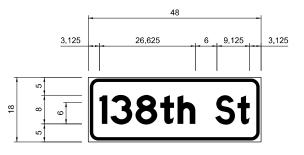


SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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



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

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

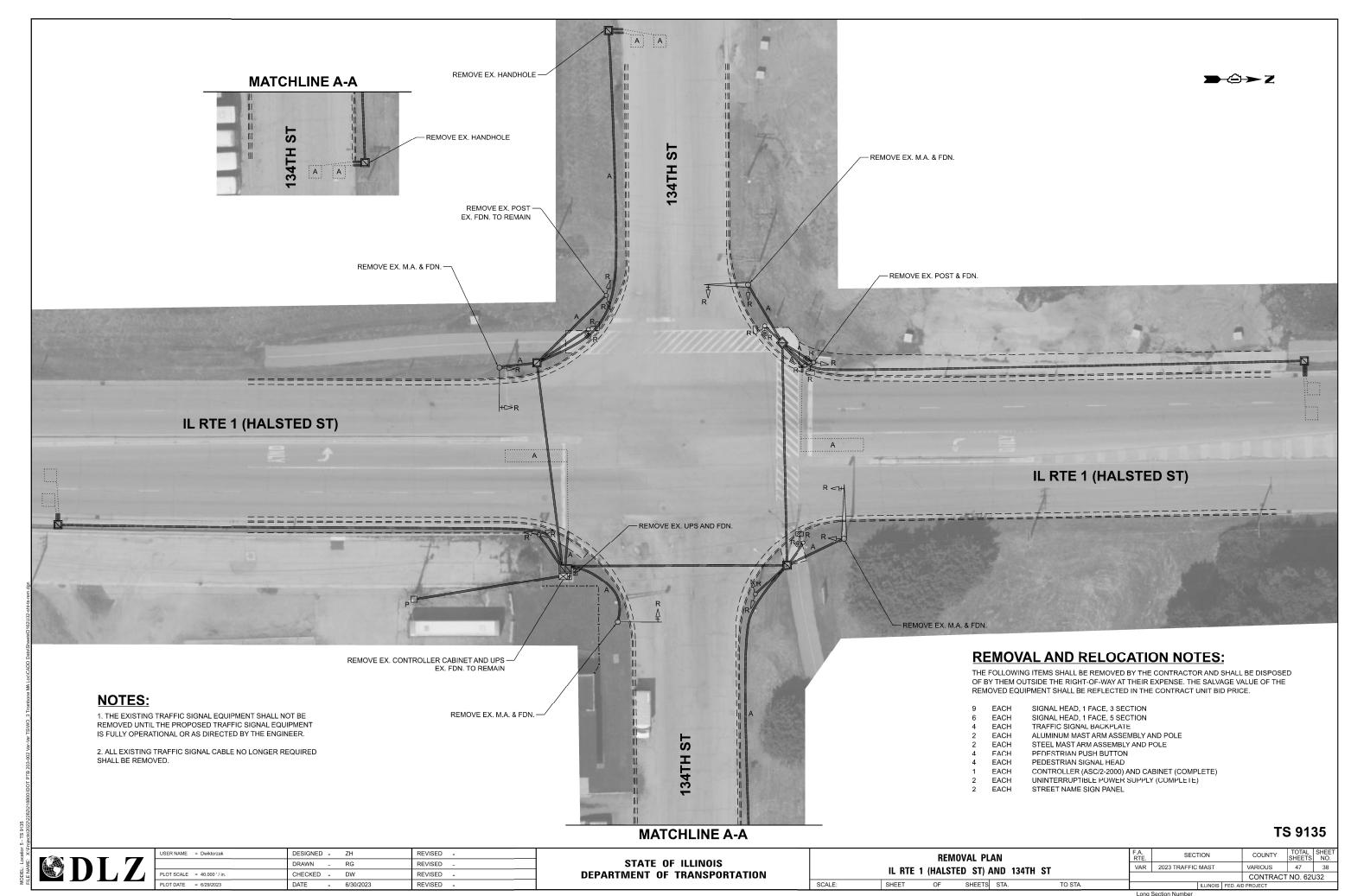
SCHEDULE OF QUANTITIES

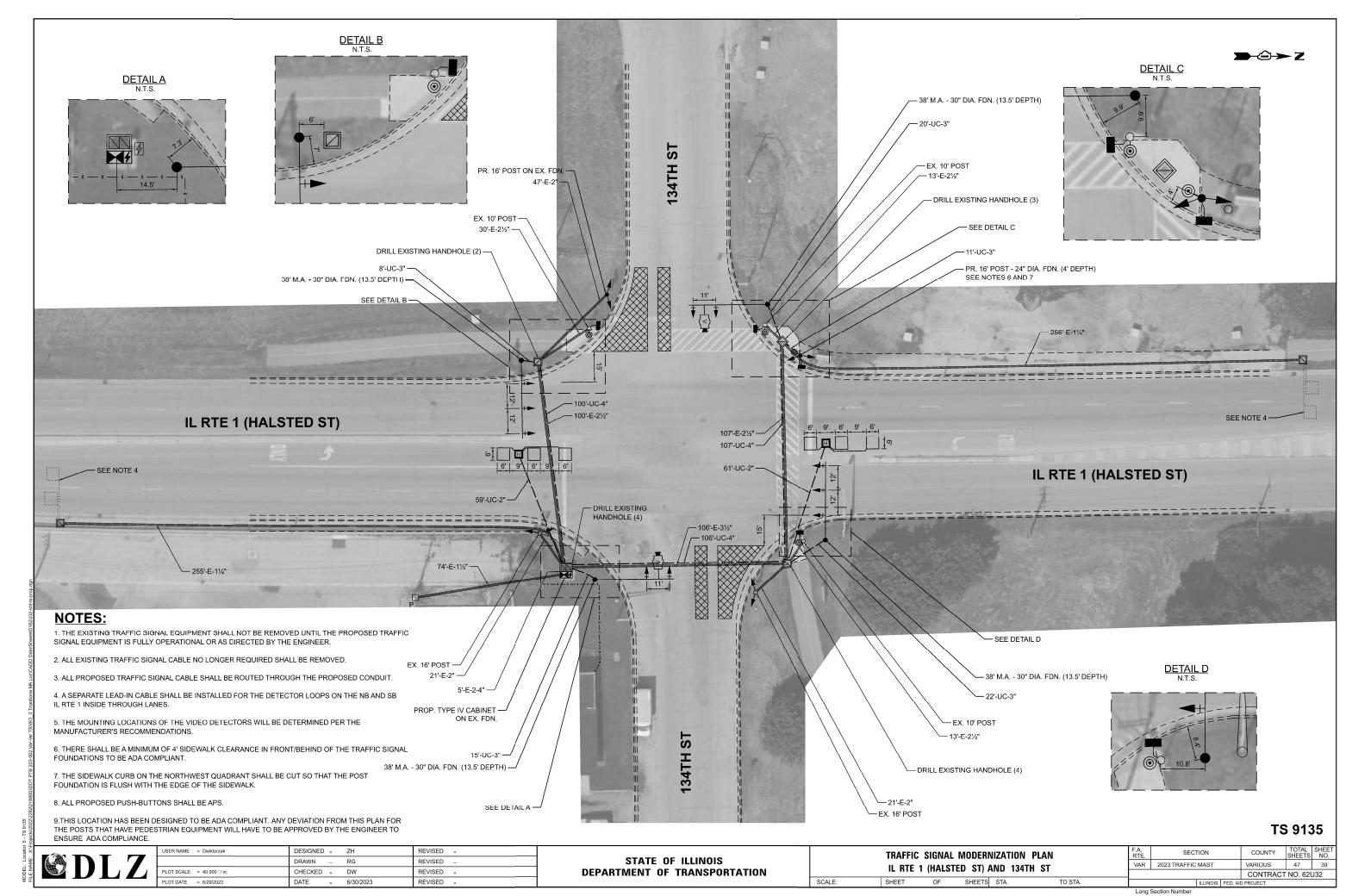
ITEM DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SO FT	12
SIGN PANEL - TYPE 2	SQ FT	22.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	351
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	68
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	318
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	425
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	765
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1440
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1275
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1420
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	460
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 48 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	39
DRILL EXISTING HANDHOLE	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
DETECTOR LOOP, TYPE I	FOOT	204
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2965
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	335
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

TS 1795



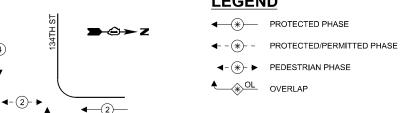
USER NAME = Dwiktorzak	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 6/29/2023	DATE	-	6/30/2023	REVISED -

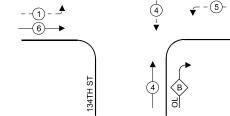






LEGEND

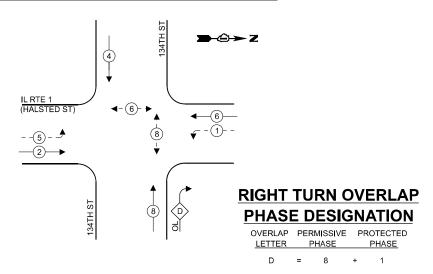




RIGHT TURN OVERLAP PHASE DESIGNATION

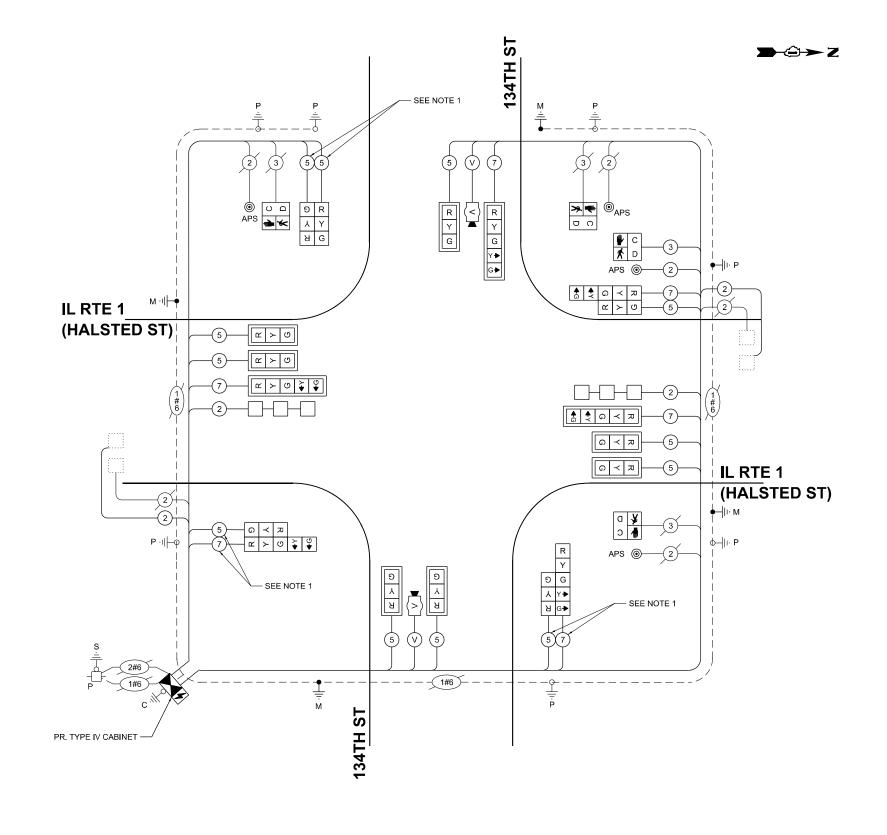
OVERLAP PERMISSIVE PROTECTED LETTER PHASE PHASE B = 4 + 5

PROPOSED CONTROLLER SEQUENCE



TRAFFIC SIGNA SERVICE REC			
		UNIT	TOTAL
EQUIPMENT TYPE	QUANTITY	WATTAGE	WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	12	11	132
4-SECTION	-	14	-
5-SECTION	6	13	78
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	
	TOTAL UF	'S SIZING	465
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	SERVICE WIF	RE SIZING	1,070

ENERGY COSTS TO: **VILLAGE OF RIVERDALE** 157 W. 144TH ST RIVERDALE, IL 60827 ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN PHONE: (708)-235-2692 COMPANY: COMED ACCOUNT NUMBER:



CABLE PLAN

NOTES:

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

TS 9135



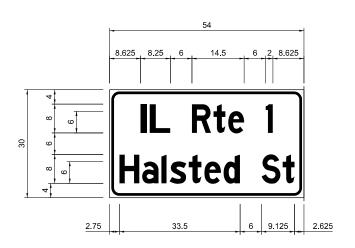
SERVICE WIRE SIZING	1,070	IVILILI	V IVOI	NDLIN			
USER NAME = Dwiktorzak		DESIGNED	-	ZH	REVISED	-	
		DRAWN	-	RG	REVISED	-	
PLOT SCALE = 40.000 '/in.		CHECKED	-	DW	REVISED	-	
PLOT DATE = 6/29/2023		DATE	_	6/30/2023	REVISED	_	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL RTE 1 (HALSTED ST) AND 134TH ST OF SHEETS STA.

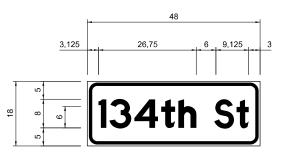
SECTION COUNTY VARIOUS 47 40 VAR 2023 TRAFFIC MAST CONTRACT NO. 62U32

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



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



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

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

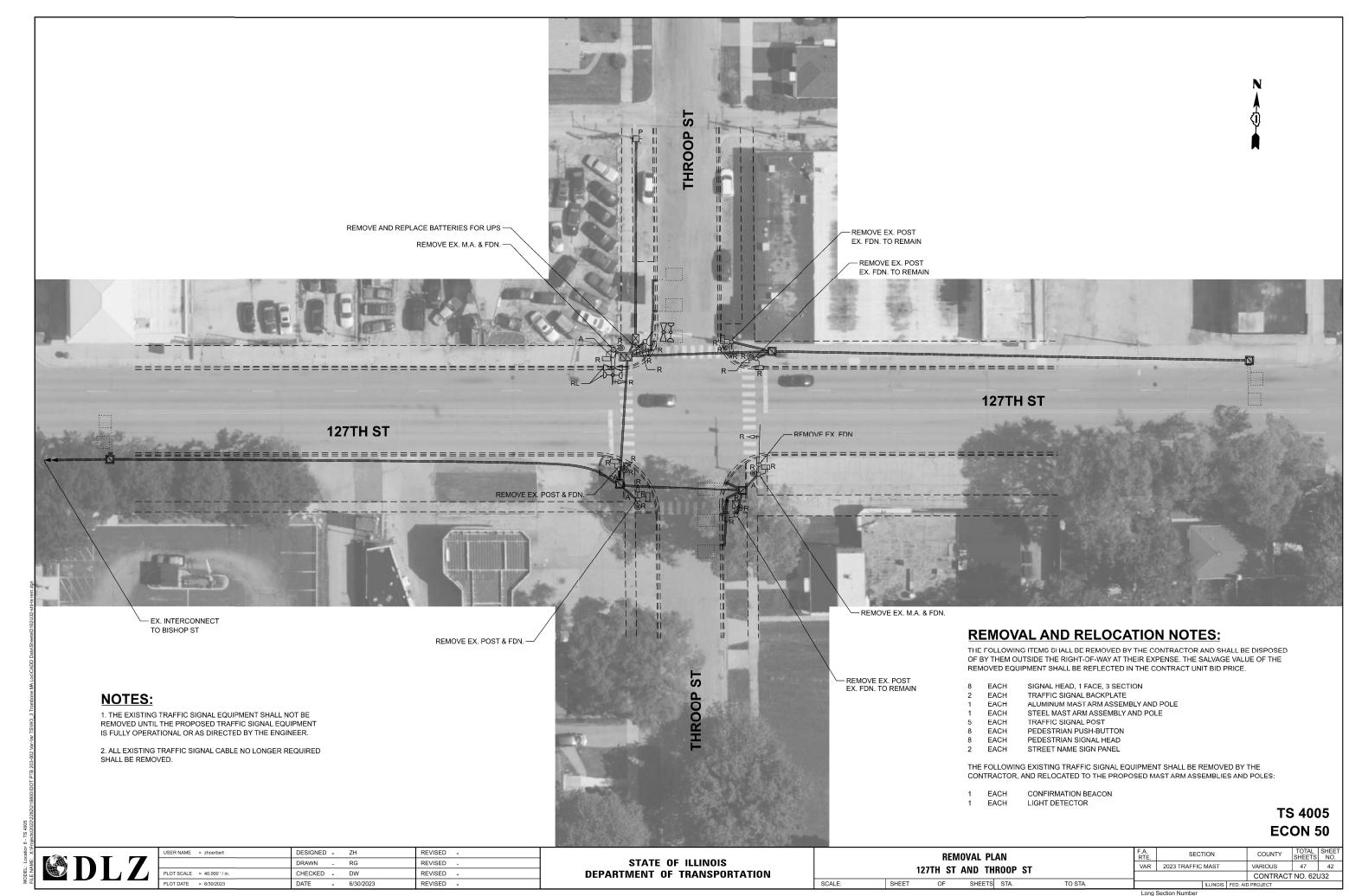
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	22,5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	120
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	76
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	313
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	275
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	275
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2180
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1250
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1090
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	450
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	54
DRILL EXISTING HANDHOLE	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	212
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2505
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

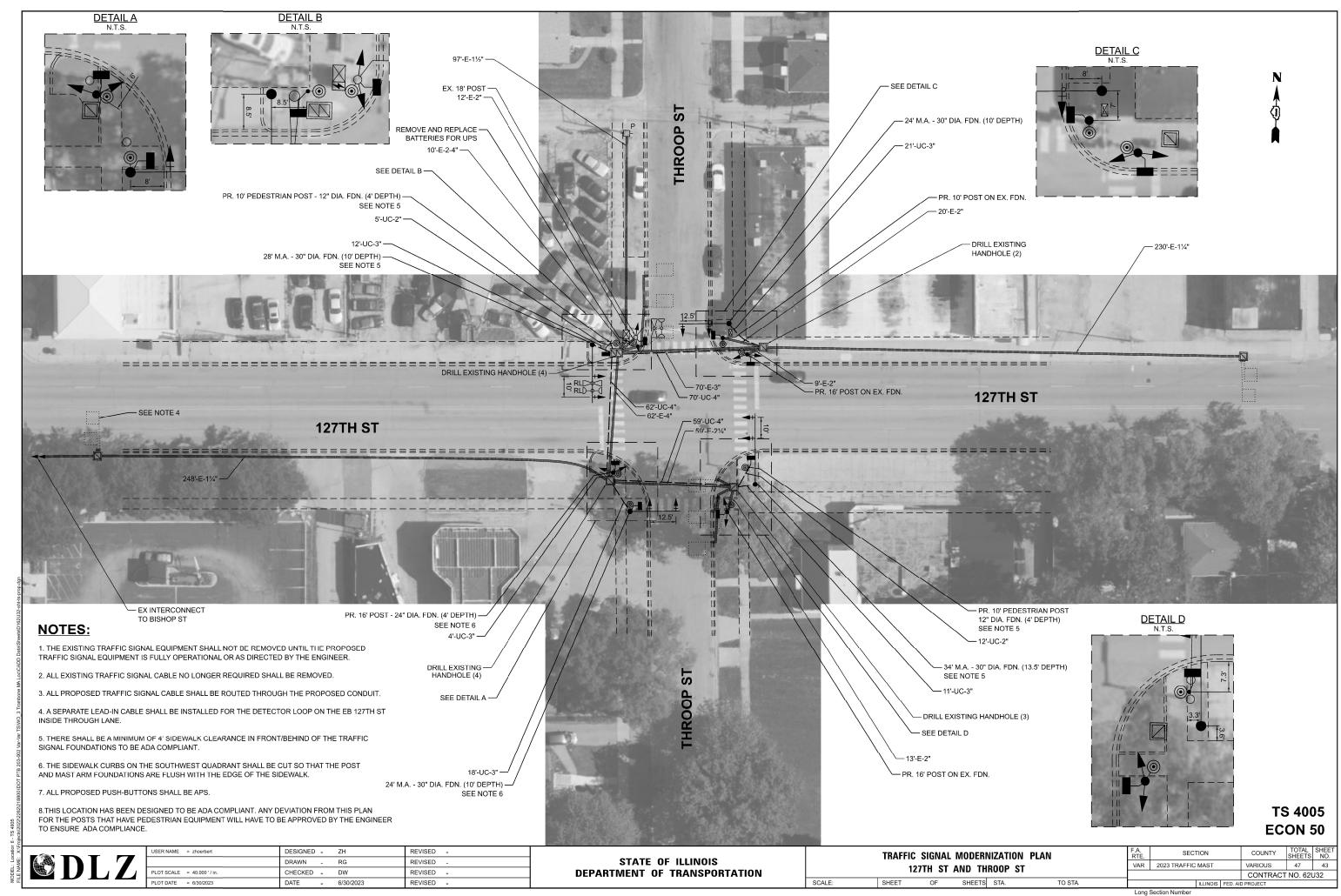
TS 9135



USER NAME = Dwiktorzak	DESIGNED	-	ZH	REVISED -
	DRAWN	-	RG	REVISED -
PLOT SCALE = 40.000'/in.	CHECKED	-	DW	REVISED -
PLOT DATE = 6/29/2023	DATE	-	6/30/2023	REVISED -



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LEGEND

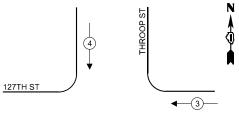
◆ PROTECTED PHASE

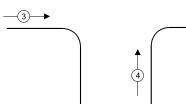
← -(*)- - PROTECTED/PERMITTED PHASE

◆-(*)- PEDESTRIAN PHASE

OVERLAP OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

o l				
sht-ta	EQUIPMENT TYPE	QUANTITY	UNIT	TOTAL
U32	EQUIPMENT TYPE	QUANTITY	WATTAGE	WATTAGE
2162	SIGNAL HEAD 1 OR 3-SECTION	16	11	176
sets	4-SECTION	-	14	-
S'She	5-SECTION	-	13	-
Dat	PROGRAMMABLE 3-SECTION	-	22	-
QQV.	4-SECTION	-	32	-
Octo.	5-SECTION	-	28	-
ΜA	PEDESTRIAN SIGNAL	8	15	120
auoc	CONTROLLER	1	150	150
rom	MASTER CONTROLLER	-	100	-
3	UPS	1	25	25
SW	DETECTION RADAR OR VIDEO	-	20	-
/ar T	BLANK-OUT SIGN	-	25	-
Var-	NETWORK SWITCH II OR III	-	35	-
-002	CELLULAR MODEM	-	15	-
s/2022/2282/218800 IDOT PTB 203-002 Var-Var TS\WO_3 Trombone MA Loc\CADD Data\Sheets\D162U32-sht-ts		TOTAL UF	'S SIZING	471
I P	UPS CHARGING	1	225	225
ă	BATTERY HEATER MAT	1	180	180
880	CABINET HEATER	1	200	200
82\2;	FLASHER	-	15	-
2/22	LED STREET NAME SIGN	-	120	-
\$1202	LUMINAIRE	-	240	-
23				

ENERGY COSTS TO:

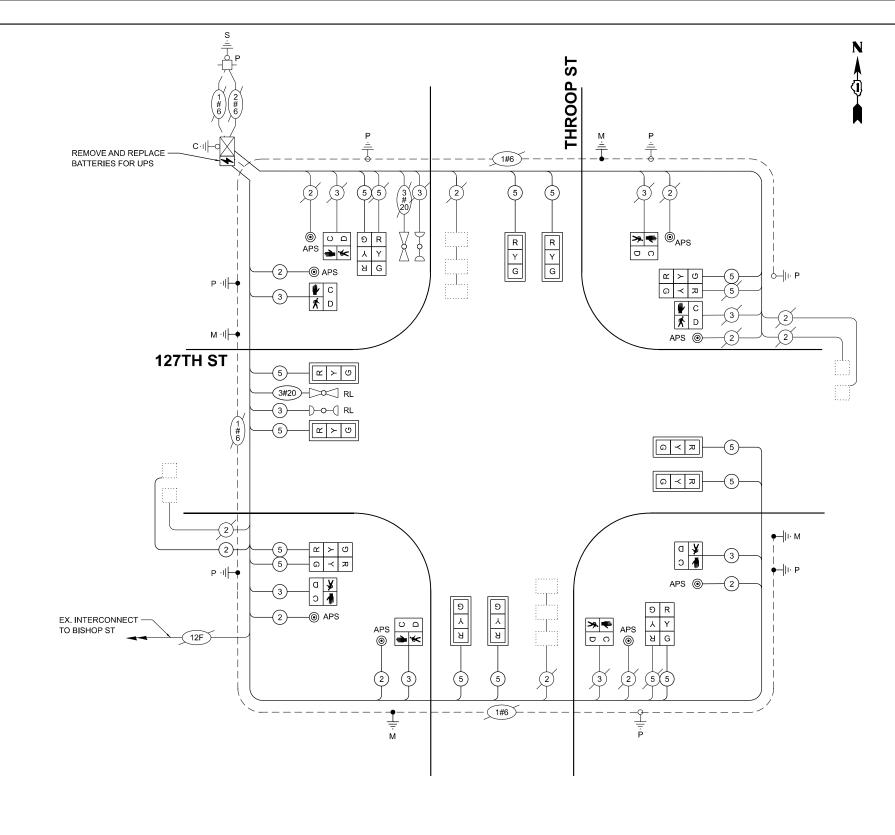
VILLAGE OF CALUMET PARK

12409 S. THROOP ST.
CALUMET PARK, IL 60827

ENERGY SUPPLY:

CONTACT: ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED

ACCOUNT NUMBER:
METER NUMBER:



CABLE PLAN

TS 4005 ECON 50



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED - DW	REVISED -
PLOT DATE = 6/30/2023	DATE - 6/30/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

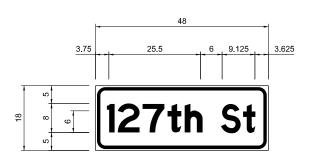
127TH ST AND THROOP ST

SHEET OF SHEETS STA. TO STA.

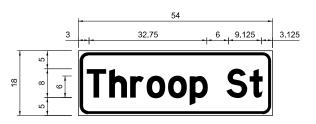
F.A. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEE NO.
VAR	AR 2023 TRAFFIC MAST			VARIOUS	47	44
·			CONTRACT	NO. 621	J32	
		ILLINOIS	FED. AII	PROJECT		

SIGN PANEL - 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	2



	DESIGN	AREA	SIGN PANEL	SHEETING	QTY.
	SERIES	(SQ FT)	TYPE	TYPE	REQUIRED
ŀ	D	6.75	1	ZZ	2

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

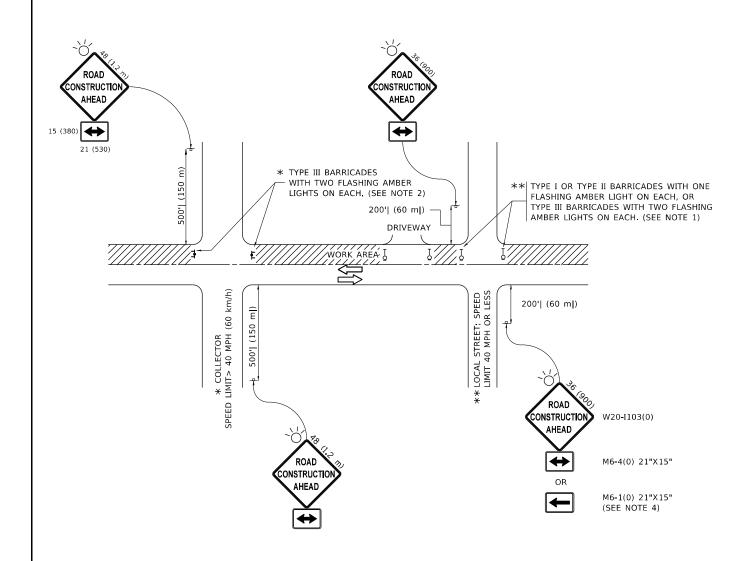
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	QUANTITY 25,5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	17
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	66
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	191
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	191
ELECTRIC CABLE IN CONDUIT. SIGNAL NO. 14 2C	FOOT	465
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	575
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1880
ELECTRIC CABLE IN CONDUIT, JIGNAL NO. 14 3C	FOOT	350
ELECTRIC CABLE IN CONDUIT, ECAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	345
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. STEEL MAST ARM ASSEMBLY AND POLE. 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT. STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
	FOOT	4
CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	43.5
DRILL EXISTING HANDHOLF	EACH	43.5
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
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1350
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	95
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
TEMPORARY INFORMATION SIGNING	SQ FT	51.4

TS 4005 ECON 50



USER NAME = Dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.000 '/in.	CHECKED - DW	REVISED -
PLOT DATE = 6/29/2023	DATE - 6/30/2023	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).

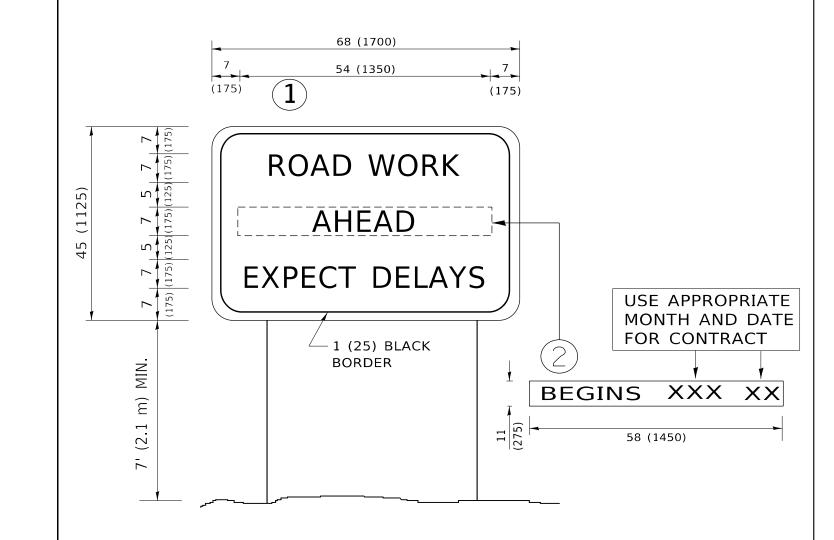
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 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 = 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 = 6/29/2023	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								
SCALE: NONE	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 02-02-99
PLOT DATE = 6/29/2023	DATE -	REVISED	-	C. JUCIUS 01-31-07

					F.A. RTE	SECTION			
					VAR	2023 TRAFFIC MAS			
					IVIATION	Sidia			TC-22
	SHEET	1	0	- 1	SHEETS	STA.	TO STA.		ILLINOIS