U6-17-2U22 LETTING ITEM 2U5

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. 5
SECTION: 2021–155–TS
PROJECT: STP-WM29(335)
TROMBONE MAST ARM REPLACEMENT
DUPAGE & COOK COUNTIES

C-91-036-22

740

FOR LOCATION MAPS SEE SHEETS NO. 3-5

VARIOUS TOWNSHIPS

0 100' 200' 300' - 1" = 100'
0 50' 100' 1" = 50'
0 50' 100' 1" = 40'
0 50' 100' 1" = 40'
0 50' 100' 1" = 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

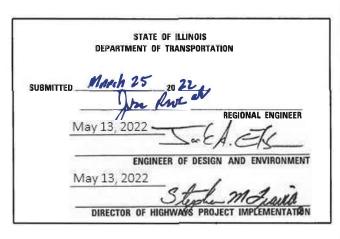
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: IOVAN PLASCENCIA (847) 705-4504 PROJECT MANAGER: KAMIL KOBYLKA (847) 705-4734

CONTRACT NO. 62P72

D-91-040-22





PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

DECCRIPTION

CHT NO

SHI NO.		DESCRIPTION
1 2 3-5 6-10 11-17		COVER SHEET INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES LOCATION MAPS SUMMARY OF QUANTITIES DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05) DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS (TS-02)
SHT NO.	TS NO.	INTERSECTION NAME
19-22 23-26 27-30 31-34 35-39 40-43	6130 5975 14741 9190 1870 1425	US RTE 34 (OGDEN AVE) AT MADISON ST CASS AVE AT 1-55 NORTH FRONTAGE RD / HINSWOOD DR IL RTE 62 (ALGONQUIN RD) AT CARRIAGE WAY / ESSEX WAY TOUHY AVE AT CUMBERLAND AVE IL RTE 1 (HALSTED ST) AT VOLLMER RD US RTE 30 (LINCOLN HWY) AT WOODLAWN AVE
SHT NO.		DESCRIPTION
44		TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
45		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
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'
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

RLR NOTES

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, 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 LOCATION:

TS 1870 IL RTE 1 (HALSTED ST) AT VOLLMER RD

886001-01 DETECTOR LOOP INSTALLATIONS

CITY OF CHICAGO HEGHTS SAFE 1601 CHICAGO RD 150 CHICAGO HEIGHTS, IL 60411 CHIC (708) 756-5304 (877

SAFE SPEED, LLC 150 N UPPER WACKER DR CHICAGO, IL 60606 (877) 237-2331

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS. 48 HOUR NOTIFICATION IS REQUIRED.

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.

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

THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

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

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

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

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

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PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

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INDEX O	F SHEETS	, HIGHWAY	STANI	JAKUS &	GENERAL NOTES	VAR	2021-1	.55-TS	VARIOUS	45	2
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LOCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY	COUNTY
1	6130	US RTE 34 (OGDEN AVE) AT MADISON ST	HINSDALE	DUPAGE
2	5975	CASS AVE AT I-55 NORTH FRONTAGE RD / HINSWOOD DR	DARIEN	DUPAGE

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DEPARTMENT	OF	TRANSPORTATION

		LOC	ATION N	IAP		F.A. RTE	SEC ⁻	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
		DIID	AGE COU	NTV		VAR	2021-	155-TS		VARIOUS	45	3
		DOL	AUL UUU	1411						CONTRACT	NO. 62	2P72
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PLOT DATE = 4/22/2022

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DATE	-	3/15/2022	REVISED	-		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		ATION IV		
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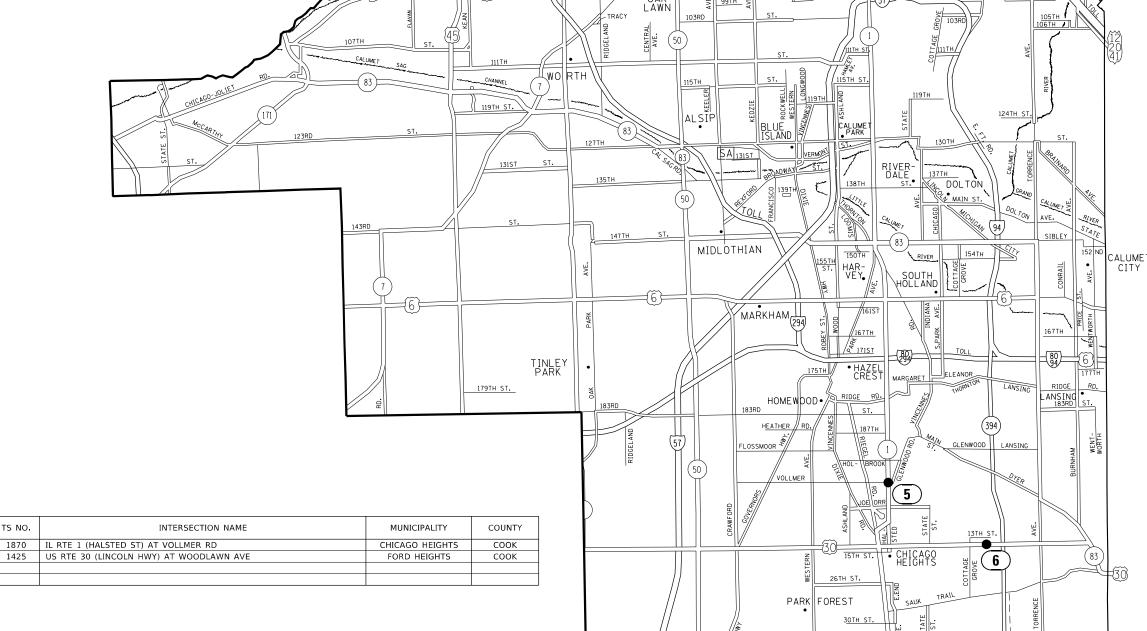
SCALE:

COUNTY TOTAL SHEET NO.

VARIOUS 45 4

CONTRACT NO 63833 SECTION 2021-155-TS

LUDLOW RD. 65 RD. 65 RD.	To the series of	GE ALDRIDGE EMERSON	SA (12) CHICAGO AVE. PAI CHICAGO AVE. PAI ARLINGTON HEIGHTS EUCLID	CLEN- LACE NO PORTON CT CLEN- LACE NO PORTON CT CLEN- CLEN
LOCATION NO. 3 4	TS NO. 14741 9190	INTERSECTION NAME IL RTE 62 (ALGONQUIN RD) AT CARRIAGE WAY / ESSEX WAY TOUHY AVE AT CUMBERLAND AVE	MUNICIPALITY COUNTY ROLLING MEADOWS COOK PARK RIDGE COOK	PARK PARK PARK WELLINGTON WELLINGTON WELLINGTON AVE. WOOD WE PARK WELLINGTON AVE. WOOD WELLINGTON AVE. WOOD WELLINGTON AVE. WOOD WELLINGTON AVE. WOOD WELLINGTON AVE. WOOD WELLINGTON AVE.



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LOCATION

NO.

1425

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DEPARTMENT	OF	TRANSPORTATION

SCALE:

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	COLLEG	соок с	NIINTV		VAR	2021-1	55-TS		VARIOUS	45	5
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					80% FED 20% STATE DUPAGE COUNTY	20% FED 20% STATE COOK COUNTY			
	CODE			TOTAL				SIGNALS	
	NO.	ITEM	UNIT	QUANTITY				D21 BAN	
							- OK		
	20200100	EARTH EXCAVATION	CU YD	1		1			
	20200100	EACH EXCAVATION		<u> </u>		-			
	42004200	DD07507015 00 47	50.45						
	42001300	PROTECTIVE COAT	SQ YD	6		6			
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	52		52			
igspace	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	75	26	49			
k	66900530	SOIL DISPOSAL ANALYSIS	EACH	6	2	4			
<	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.33	0.67			
İ									
k -	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.33	0.67			
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	7	2	5			
	67100100	MOBILIZATION	L SUM	1	0.33	0.67			
L	07100100	INOSILIZATION .	2 3011	1	0,33	3.37			
	70102625	TRACEIC CONTROL AND PROTECTION CTANDARD 701000	I GUM		0.22	0.67			
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.33	0.67			
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.33	0.67			
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.33	0.67			
k	72000100	SIGN PANEL - TYPE 1	SQ FT	43.5	28.5	15			
k –	72000200	SIGN PANEL - TYPE 2	SQ FT	264.5	62.5	202			
L									* SPECIAL

F.A. RTE. VAR IP 4/15/2022 USER NAME = plascenciai DESIGNED - IP REVISED -SUMMARY OF QUANTITIES STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRAWN - IP REVISED 2021-155-TS (SHEET 1 OF 5) PLOT SCALE = 100.0000 ' / in. CHECKED - KK REVISED PLOT DATE = 4/22/2022 DATE - 3/15/2022 REVISED -SCALE: SHEET OF SHEETS STA. TO STA.

						CONSTRUC	TION CODE		
				80% FED 20% STATE DUPAGE COUNTY	80% FED 20% STATE COOK COUNTY				
CODE	ITEM	LINIT	TOTAL				SIGNALS		
NO.	ITEM	UNIT	QUANTITY				021 BAN		
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	499	174	325				
			,,,,						
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	464	193	271				
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,530	501	1,029				
81400100	HANDHOLE	EACH	1		1				
81400200	HEAVY-DUTY HANDHOLE	EACH	3	2	1				
81400200	neavi-bott nandhole	EACH	3	2	1				
81400300	DOUBLE HANDHOLE	EACH	1		1				
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	2	4				
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,085	405	2,680				
07301335	ELECTRIC CARLE IN CONDUIT CICALA DE	FOOT	5 100	1.075	2.005				
8/301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	5,180	1,275	3,905				
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	10,810	2,800	8,010				
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5,415	2,135	3,280				
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,410	370	1,040				
3.301303			2,110	2.0	2,010				
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,820	980	1,840				
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5	2	3				
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

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

 VAR
 2021-155-TS
 VARIOUS
 45
 7

 CONTRACT NO. 62P72

						CONSTRUC	TION CODE		
				80% FED 20% STATE DUPAGE COUNTY	80% FED 20% STATE COOK COUNTY				
CODE	ITEM	UNIT	TOTAL				SIGNALS		
NO.	I I EM	UNII	QUANTITY				D21 BAN		
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1		1				
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2		2				
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	5	3	2				
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1				
			<u> </u>		_				
						1	1		
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	3	1	2				
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	3	2	1				
07700210	TIELE MAST ANN ASSEMBLE AND FOLL, 34 FT.	LACIT		2	•				
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	3		3				
07700220	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	3		3				
87700230	STEEL MAST ARM ASSEMBLT AND POLE, SO FT.	EACH	3		3				
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1	1					
07700250	CTEST MACT ADM ACCENTIVE AND DOLE AA ST								
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2	1	1				
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	8	12				
07000:00	CONSETT FOUNDATION TYPE F 26 WEST SWITTER		255		105				
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	255.5	70.5	185				
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39	26	13				
87900200	DRILL EXISTING HANDHOLE	EACH	69	27	42				
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

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				80% FED 20% STATE DUPAGE COUNTY	80% FED 20% STATE COOK COUNTY			
CODE	,	11817	TOTAL			TRAFFIC		
NO.	ITEM	UNIT	QUANTITY			00 URI	21	
						UNI	DAIN	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	44	14	30			
								+
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	31	10	21			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	16	6	10			
				-				
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	16	6	10			
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	26	4	22			
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	60	20	40			
00200410	THATTE SIGNAL BACK EATE, EGGVERED, FORMED FEASTE	EACH		20	40			
88500100	INDUCTIVE LOOP DETECTOR	EACH	12		12			
88600100	DETECTOR LOOP, TYPE I	FOOT	283	193	90			
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	2	3			
03301230	RELOCATE EXISTING TRAFFIC SIGNAL EQUILMENT	EACH	<u> </u>	2				
89502200	MODIFY EXISTING CONTROLLER	EACH	5	2	3			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	13,300	3,985	9,315			
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	520		520			
03302330	TELEGIA CAPEL TROPE CONDOIT		J20		320			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	2	4			
89502380	REMOVE EXISTING HANDHOLE	EACH	5		5			
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 REVISED

 DRAWN
 IP
 REVISED

 PLOT SCALE
 = 100,0000 ° / in.
 CHECKED
 KK
 REVISED

 PLOT DATE
 = 3/25/2022
 DATE
 3/15/2022
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES
(SHEET 4 OF 5)

SHEET OF SHEETS STA. TO STA.

SCALE:

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

VAR 2021-155-TS VARIOUS 45 9

CONTRACT NO. 62P72

						CONSTRUCTION CODE			
				80% FED 20% STATE DUPAGE COUNTY	80% FED 20% STATE COOK COUNTY				
CODE		LINIT	TOTAL		,	TRAFFIC SIGNALS	'		
NO.	ITEM	UNIT	QUANTITY			0021 URBAN			
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00502205	DEMOVE EXICTING CONCRETE FOUNDATION	FACIL	30	0	21				
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	30	9	21				
X0320021	MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1		1				
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2,000	860	1,140				
			İ		,				
X1400107	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1		1				
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	7	3	4				
V1400300	WIDEO VEHICLE DETECTION SYSTEM SINGLE APPROACH	EACH	1		2				
X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2		2				
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MC	6	2	4				
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1				
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	26	4	22				
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	28	12	16				
70020050	TEMPODADY INFORMATION CICNING	SO ET	462.6	154.3	200.4				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	402.0	154.2	308.4				
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	4	1	3				
					İ	İ			
Ø 20076600	TRAINEES	HOURS	500	500					
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS		500					
20070004	THATREES - THATRITING FROODLAND GRADUATE	HOURS	, 500	300					
						<u> </u>			
	USER NAME = plascenciai DESIGNED - IP REVISED - DRAWN - IP REVISED -		CTATE	OF ILLINOIS		SUMMARY OF QUANTITIES	F.A. RTE.	SECTION	COUNTY TOTA SHEET

DESIGNED - IP REVISED DRAWN - IP REVISED -PLOT SCALE = 100.0000 ' / in. CHECKED - KK REVISED -PLOT DATE = 3/25/2022 DATE - 3/15/2022 REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE:

SUMMARY OF QUANTITIES (SHEET 5 OF 5) SHEET OF SHEETS STA. TO STA.

| Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Marious | Mari F.A. RTE. VAR 2021-155-TS

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

COMMUNICATION CABINET COMMUNICATION CABINET ECC MASTER CONTROLLER EMC MASTER MASTER CONTROLLER UNINTERRUPTABLE POWER SUPPLY SERVICE INSTALLATION -(P) POLE MOUNTED SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED TELEPHONE CONNECTION STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY WOOD POLE GUY WIRE SIGNAL HEAD SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE EMERGENCY VEHICLE LIGHT DETECTOR	GM	RAILROAD CROSSBUCK RAILROAD CONTROLLER CA UNDERGROUND CONDUIT (GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVED.	AL SOX E XOX ABINET (UC), S I	I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD -(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, ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE VENDOR CABLE	ENCIP PENCIP	
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MASTER MASTER CONTROLLER JNINTERRUPTABLE POWER SUPPLY SERVICE INSTALLATION (P) POLE MOUNTED SERVICE INSTALLATION (G) GROUND MOUNTED SERVICE INSTALLATION (G) GROUND MOUNTED SERVICE INSTALLATION (G) GROUND MOUNTED SERVICE INSTALLATION (G) GROUND MOUNTED SERVICE INSTALLATION (G) GROUND MOUNTED SERVICE INSTALLATION (G) GROUND MOUNTED SERVICE INSTALLATION (STEEL COMBINATION MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE SETEL COMBINATION MAST ARM ASSEMBLY AND POLE SIGNAL POST (BM) BARREL MOUNTED - TEMPORARY WOOD POLE SULY WIRE SIGNAL HEAD SIGNAL HEAD SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION (FS) SOLAR POWERED PEDESTRIAN PUSH BUTTON (APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR R J JUDEO DETECTION CAMERA PAN, TILT, ZOOM (PTZ) CAMERA PTZZ1	MMC	-SQUARE -ROUND DOUBLE HANDHOLE JUNCTION BOX RAILROAD CANTILEVER MA RAILROAD FLASHING SIGNA RAILROAD CROSSING GATE RAILROAD CONTROLLER CA UNDERGROUND CONDUIT (GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVED.	AST ARM	SP IP R RL A RCF	-(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. ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE	P RESCUENCE P RB RB TO C THE6 TO C TO C TO C TO C TO C TO C TO C TO C	P R Y G Y G Y G Y G Y G Y G Y G Y G Y G
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SERVICE INSTALLATION (G) GROUND MOUNTED (GM) GROUND MOUNTED (E) GROUND MOUNTED TELEPHONE CONNECTION STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE SIGNAL POST (BM) BARREL MOUNTED - TEMPORARY WOOD POLE GUY WIRE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE FLASHER INSTALLATION (FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON (APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR WIDEO DETECTION CAMERA PAN, TILT, ZOOM (PTZ) CAMERA	GM	RAILROAD FLASHING SIGNA RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CA UNDERGROUND CONDUIT (GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVE MAST ARM POLE AND FOUNDATION TO BE REMOVE SIGNAL POST AND	AL SOX E XOX ABINET (UC), S I	SP IP R RL A	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, ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE	P RB C C C C C C C C C C C C C C C C C C C	P RB
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED TELEPHONE CONNECTION STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY WOOD POLE GUY WIRE SIGNAL HEAD SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	GM	RAILROAD CROSSING GATE RAILROAD CROSSBUCK RAILROAD CONTROLLER CA UNDERGROUND CONDUIT (GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVED.	ABINET (UC), S I	SP IP R RL A RCF	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. ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE	P RB C C C C C C C C C C C C C C C C C C C	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED -(GM) GROUND MOUNTED METERED TELEPHONE CONNECTION STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY WOOD POLE GUY WIRE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA PTZ1	T → BM → BM → FS FS FS	RAILROAD CROSSBUCK RAILROAD CONTROLLER CA UNDERGROUND CONDUIT (GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVED.	ABINET (UC), S I	SP IP R RL A RCF	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. ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE	5 — 1 — C — C — C — C — C — C — C — C — C	C C C C C C C C C C
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STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY WOOD POLE GUY WIRE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	→ BM → BM → P → P → FS → F → F	GALVANIZED STEEL TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET ANE FOUNDATION TO BE REMOVED	S I	IP R RL A RCF	ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE	-5- -1*6- 	5— -(1)— -(C)—
ASSEMBLY AND POLE WITH LUMINAIRE SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY WOOD POLE GUY WIRE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	● BM → → → P → FS FS FS	TETHER WIRE, AND CABLE SYSTEM ITEM INTERSECTION ITEM REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVED AND FOUNDATION TO BE REMOVED AND FOUNDATION TO BE REMOVED AND FOUNDATION TO BE REMOVED AND FOUNDATION TO BE REMOVED AND FOUNDATION TO BE REMOVED AND	VED	IP R RL A RCF	"NO LEFT TURN"/"NO RIGHT TURN" NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE		——————————————————————————————————————
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WOOD POLE GUY WIRE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	>- +- >P +- >FS +-	REMOVE ITEM RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVED MAST ARM POLE AND FOUNDATION TO BE REMOVED FS SIGNAL POST AND	VED	R RL A RCF	ALL DETECTOR LOOP CABLE TO BE SHIELDED GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE	—	—(1*6)— —(1)— —(C)—
GUY WIRE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	>- +- >P +- >FS +-	RELOCATE ITEM ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVE MAST ARM POLE AND FOUNDATION TO BE REMOVE FS SIGNAL POST AND	VED	A RCF	NO. 6 SOLID COPPER (GREEN) ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C COAXIAL CABLE	—	—(1)— —(c)—
SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION -(FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	→ → P → P +→ → F → F → F	ABANDON ITEM CONTROLLER CABINET AND FOUNDATION TO BE REMOVED FS FS SIGNAL POST AND	VED	A RCF	NO. 14 1/C COAXIAL CABLE	—©—	<u> </u>
SIGNAL HEAD WITH BACKPLATE SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION (FS) SOLAR POWERED PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH BUTTON (APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	+► > ^P +► > ^{FS} ←►	CONTROLLER CABINET AND FOUNDATION TO BE REMO' MAST ARM POLE AND FOUNDATION TO BE REMO' FS SIGNAL POST AND	VED	RCF	COAXIAL CABLE	—©—	<u> </u>
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-(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON RADAR DETECTION SENSOR VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	— <u>12F</u>	
VIDEO DETECTION CAMERA RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA PTZ1	.PS	S PREFORMED DETECTOR LO	DOP P P	РР	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		24F)
RADAR/VIDEO DETECTION ZONE PAN, TILT, ZOOM (PTZ) CAMERA FTZ	R	SAMPLING (SYSTEM) DETEC	CTOR S S	s s		—(36F)—	—(36F)—
PAN, TILT, ZOOM (PTZ) CAMERA	V	INTERSECTION AND SAMPL (SYSTEM) DETECTOR	ING IS IS	IS (IS)		<i>,</i>	
		QUEUE AND SAMPLING	os os	QS QS	GROUND ROD -(C) CONTROLLER	$\frac{\dot{\underline{+}}^{C}}{\dot{\overline{\downarrow}}} \frac{\dot{\underline{+}}^{M}}{\dot{\overline{\downarrow}}} \frac{\dot{\underline{+}}^{P}}{\dot{\overline{\downarrow}}} \frac{\dot{\underline{+}}^{S}}{\dot{\overline{\downarrow}}}$	$\underline{\overset{.}{\pm}}^{C} \underline{\overset{.}{\pm}}^{M} \underline{\overset{.}{\pm}}^{P} \underline{\overset{.}{\pm}}^{S}$
EMERGENCY VEHICLE LIGHT DETECTOR	PTZ	(SYSTEM) DETECTOR WIRELESS DETECTOR SENS			-(M) MAST ARM -(P) POST -(S) SERVICE		
IMERGENCI VEHICLE LIGHT DETECTOR	~ ≺		SOR ₩	◎	(3) SERVICE		
CONFIMATION BEACON 0—(H	WIRELESS ACCESS POINT					
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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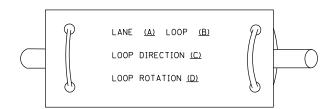
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

NONE SHEET 1 OF 7 SHEETS STA. TO SECOND SHEETS STA.

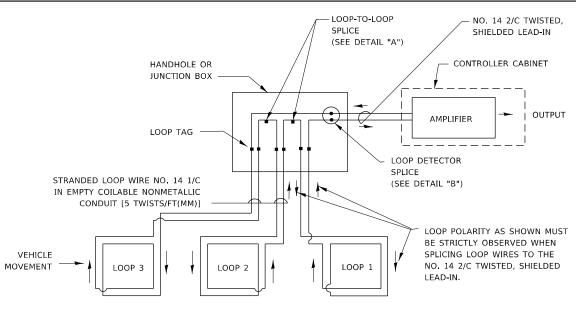
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

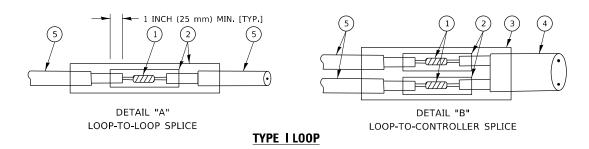


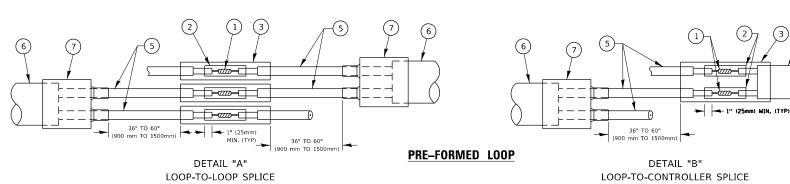
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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





LOOP DETECTOR SPLICE

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

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

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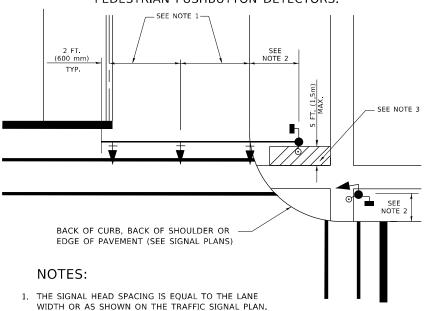
SECTION DISTRICT ONE 2021-155-TS VARIOUS 45 12 STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 62P72 SHEET 2 OF 7 SHEETS STA.

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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

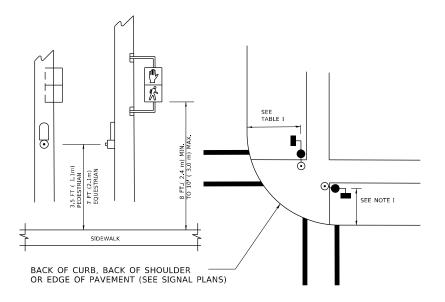
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND

PEDESTRIAN PUSHBUTTON DETECTORS.



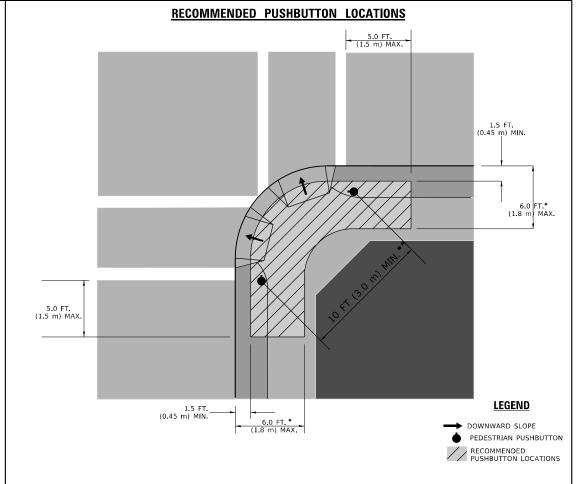
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO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

PEDESTRIAN SIGNAL POST PEDESTRIAN PUSH BUTTON POST



NOTES:

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



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1,5 FT (0,45 m) AND 6 FT (1,8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS. THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

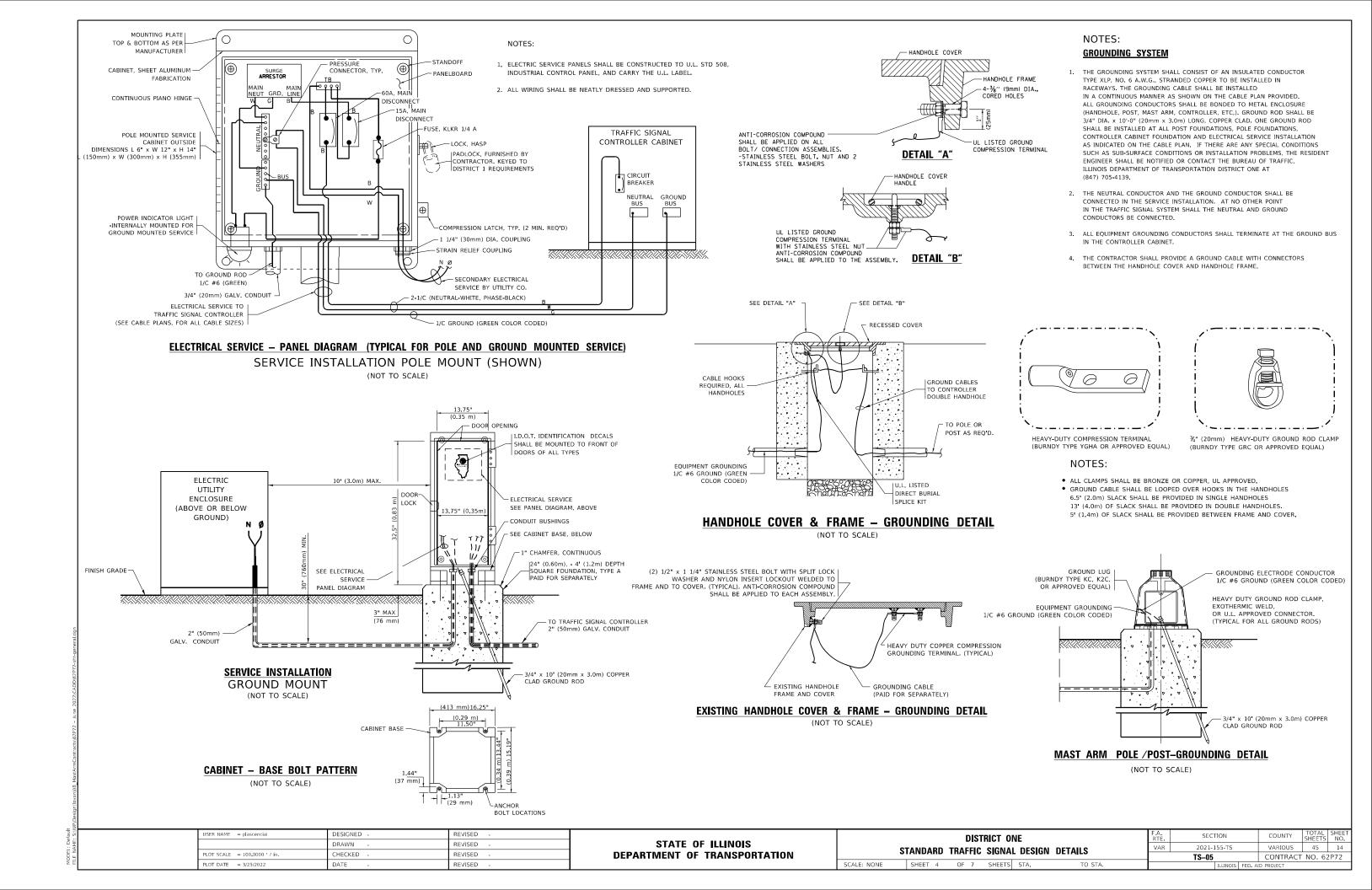
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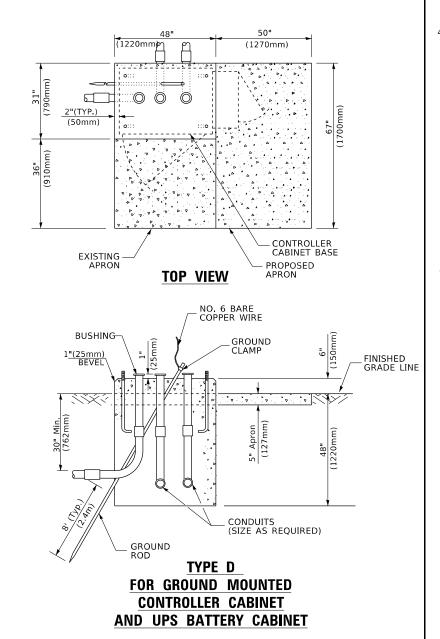
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2, MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
-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

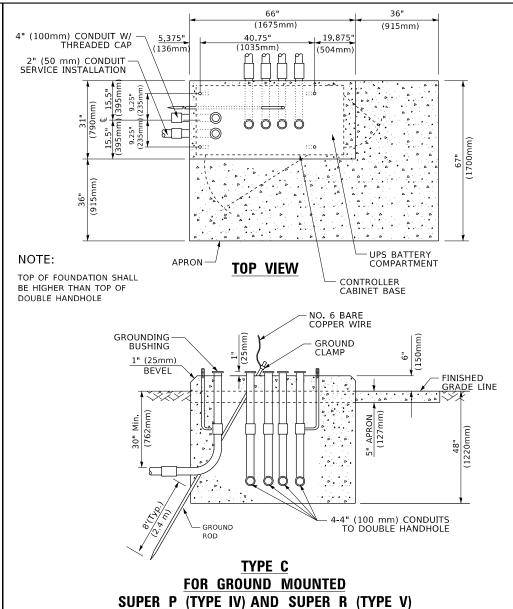
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

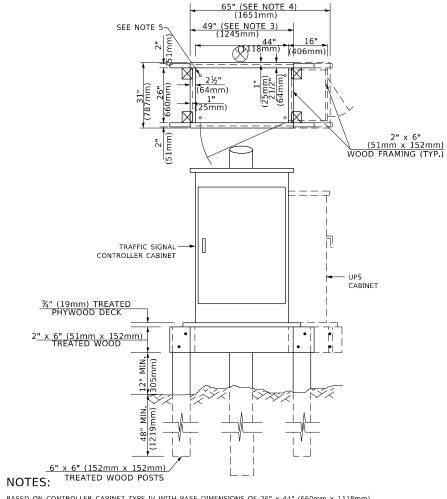
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A. RTE	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.	l				
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CONTROLLER CABINETS



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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

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

VERTICAL CABLE LENGTH

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)

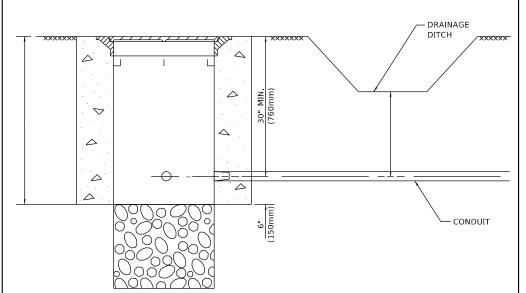
NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

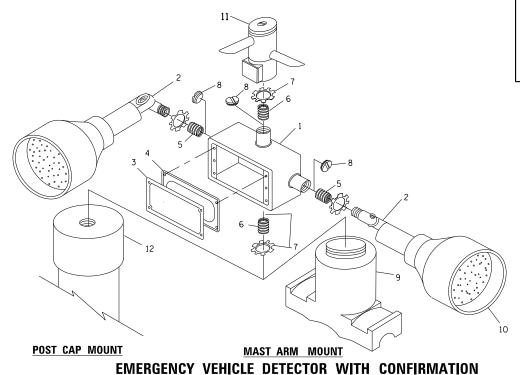
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- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH



BEACON MOUNTING DETAIL

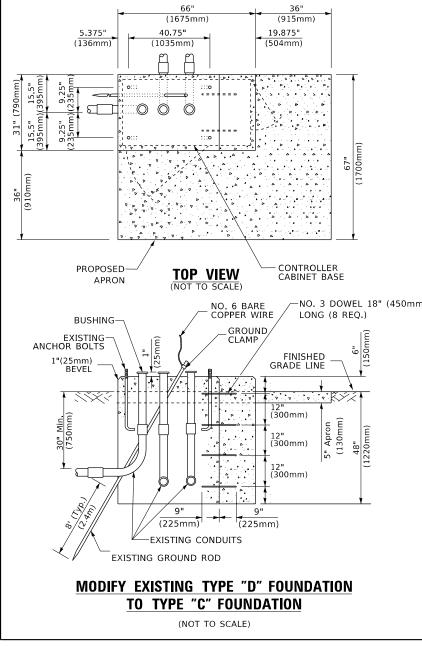
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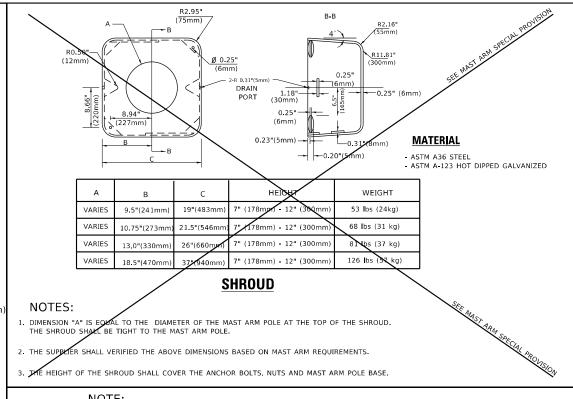
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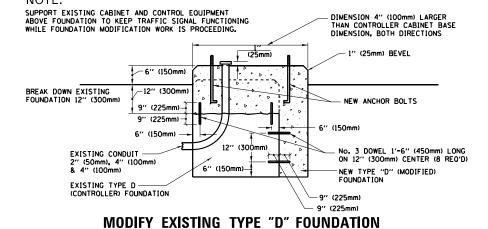


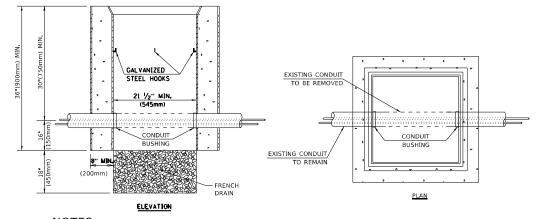
IDENTIFICATION OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) LAMP HOLDER AND COVER OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 ¾"(19 mm) CLOSE NIPPLE 7 ¾"(19 mm) LOCKNUT 8 ¾"(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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







1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.

DISTRICT ONE

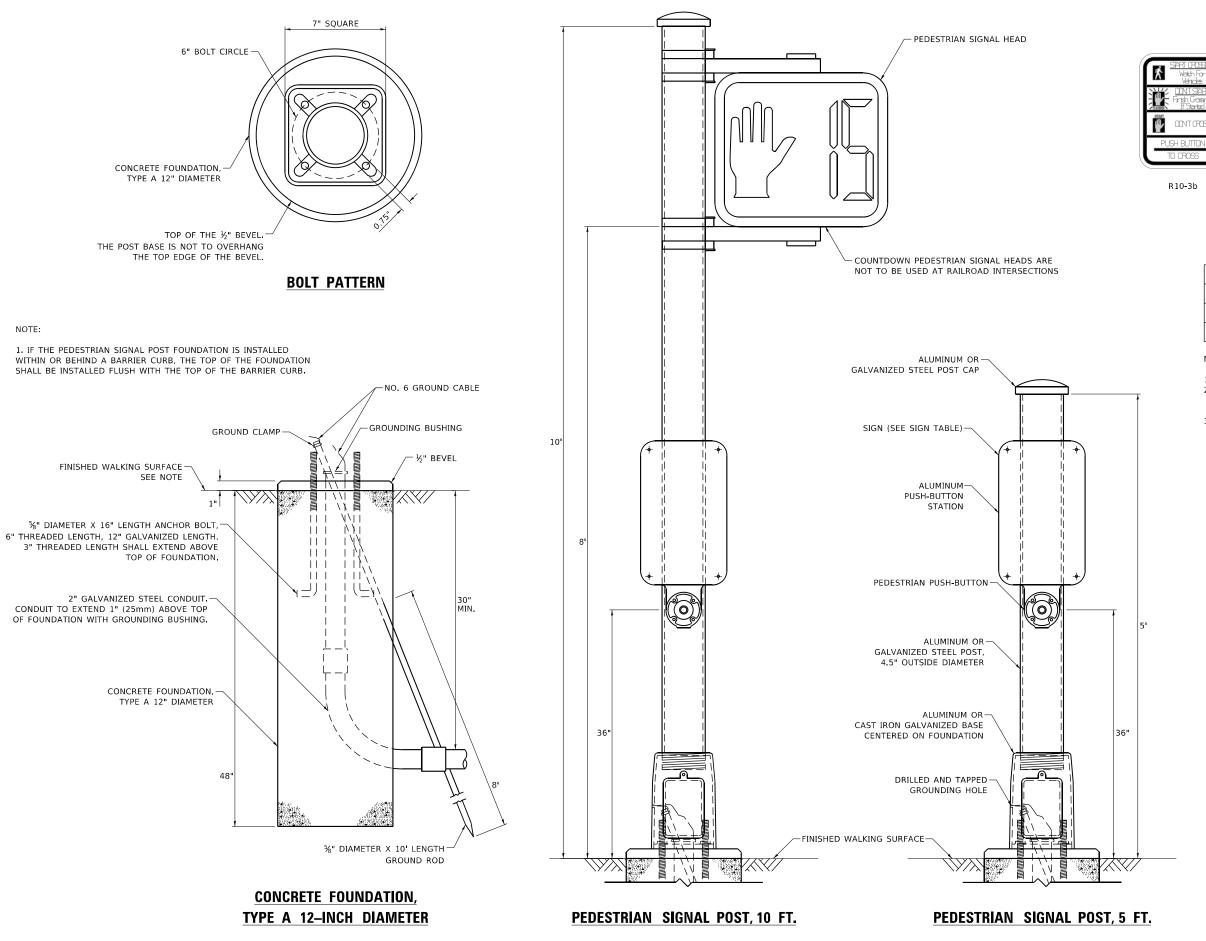
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

STANDARD TRAFFIC SIGNAL DESIGN DETAILS SHEET 6 OF 7 SHEETS STA.

2021-155-TS VARIOUS 45 16 CONTRACT NO. 62P72

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



SIGN TABLE

R10-3d

R10-3e

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

- 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
- 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
- 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

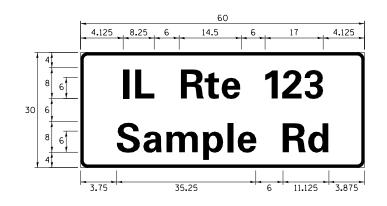
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	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 100.0000 / in.	CHECKED	-	LP	REVISED	-	
PLOT DATE = 3/25/2022	DATE	-	10/15/2018	REVISED	-	

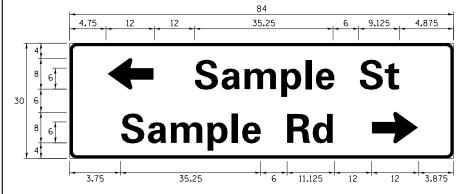
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A. RTE	SECTION	
STANDARD TRAFFIC SIGNAL I	VAR	2021-155-TS	
OTANDAND MANIE ON	DEGIGIN DETAILS		TS-05
SHEET NO. 7 OF 7 SHEETS S	STA. TO STA.		ILLINOIS FED

SIGN PANEL - TYPE 1 OR TYPE 2

3.75 35.25 6 11.125 3.875 Sample Rd





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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH	(INCH)
NAME	ADDREVATION	SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	C†	8. 250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	ΙL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23. 375	27.375
PLACE	PΙ	7. 125	7. 750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	S†	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7. 750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- 1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- 2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- 3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-O". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-O" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-O" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-O" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- 6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS: PARTS LISTING:

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

- WESTERN REMAC, INC.

WOODRIDGE, IL

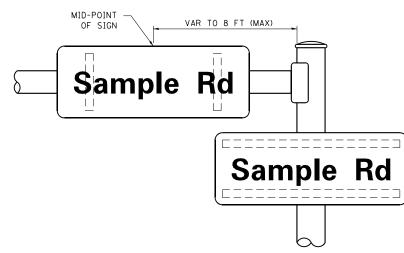
SIGN CHANNEL SIGN SCREWS BRACKETS PART #HPN053 (MED. CHANNEL) 1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)

CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

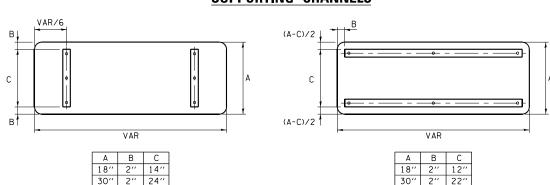
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

ARM OR POLE MOUNTED



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

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

	FHWA SEF	RIES "C"		FHWA SERIES "D"				
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	
Α	0.240	5.122	0.240	Α	0.240	6.804	0.240	
В	0.880	4.482	0.480	В	0.960	5.446	0.400	
С	0.720	4.482	0.720	С	0.800	5.446	0.800	
D	0.880	4.482	0.720	D	0.960	5.446	0.800	
Ε	0.880	4.082	0.480	E	0.960	4.962	0.400	
F	0.880	4.082	0.240	F	0.960	4.962	0.240	
G	0.720	4.482	0.720	G	0.800	5.446	0.800	
H	0.880	4.482	0.880	H	0.960	5.446	0.960	
I	0.880	1.120	0.880	I	0.960	1.280	0.960	
J	0.240	4.082	0.880	J	0.240	5.122	0.960	
K	0.880	4.482	0.480	K	0.960	5.604	0.400	
L	0.880	4.082	0.240	L	0.960	4.962	0.240	
M	0.880	5.284	0.880	M	0.960	6. 244 5. 446	0.960	
N	0.880	4.482	0.880	N	0.960		0.960	
0 P	0.720 0.880	4. 722 4. 482	0.720 0.720	0 P	0.800 0.960	5.684 5.446	0.800	
Q	0.880	4. 722	0.720	0	0. 800	5. 684	0.240	
R	0.720	4. 122	0. 120	R	0.960	5.446	0.400	
S	0.880	4.482	0.480	S	0.400	5.446	0.400	
T	0.480	4. 082	0.460	T	0.400	4.962	0.400	
Ü	0.880	4.482	0.880	Ü	0.960	5.446	0.960	
V	0.240	4.962	0.240	V	0. 240	6.084	0.240	
w	0.240	6.084	0.240	w	0, 240	7.124	0.240	
X	0.240	4. 722	0.240	X	0.400	5.446	0.400	
Y	0.240	5. 122	0.240	Y	0. 240	6.884	0.240	
Z	0.480	4. 482	0.480	Z	0.400	5.446	0.400	
	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	
i	0.720	1.120	0.720	i	0.800	1.280	0.800	
j	0.000	2.320	0.720	j	0.000	2.642	0.800	
k	0.720	4.322	0.160	k	0.800	5.122	0.160	
1	0.720	1.120	0.720	I	0.800	1.280	0.800	
m	0.720	6.724	0.640	m	0.800	7. 926	0.720	
n	0.720	4.082	0.640	n	0.800	4.722	0.720	
0	0.480	4.082	0.480	0	0.480	4.882	0.480	
Р	0.720	4.082	0.480	Р	0.800	4.802	0.480	
q	0.480	4.082	0.720	q	0.480	4.802	0.800	
r	0.720	2.642	0.160	r	0.800	3.042	0.160	
S	0.320	3. 362	0.240	S	0.320	3. 762	0.240	
+	0.080	2.882	0.080	+	0.080	3. 202	0.080	
U	0.640	4.082	0.720	u	0.720	4.722	0.800	
V	0.160	4. 722	0.160	V	0.160	5.684	0.160	
w	0.160	7.524	0.160	w	0.160	9.046	0.160	
×	0.000	5. 202 4. 962	0.000	×	0.000 0.160	6.244	0.000	
У 7	0.160 0.240	3. 362	0.160	У	0. 160	6.004 4.002	0.160	
2 1	0.720	1.680	0.880	2 1	0. 240	2.000	0.240	
2	0. 720	4.482	0.480	2	0.800	5.446	0.800	
3	0.480	4.482	0.480	3	1.440	5.446	0.800	
4	0.240	4. 962	0.720	4	0.160	6.004	0.960	
5	0.480	4.482	0.480	5	0.800	5.446	0.800	
6	0.720	4.482	0.720	6	0.800	5.446	0.800	
7	0.720	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
 = plascencial
 DESIGNED - IP
 REVISED - REVI

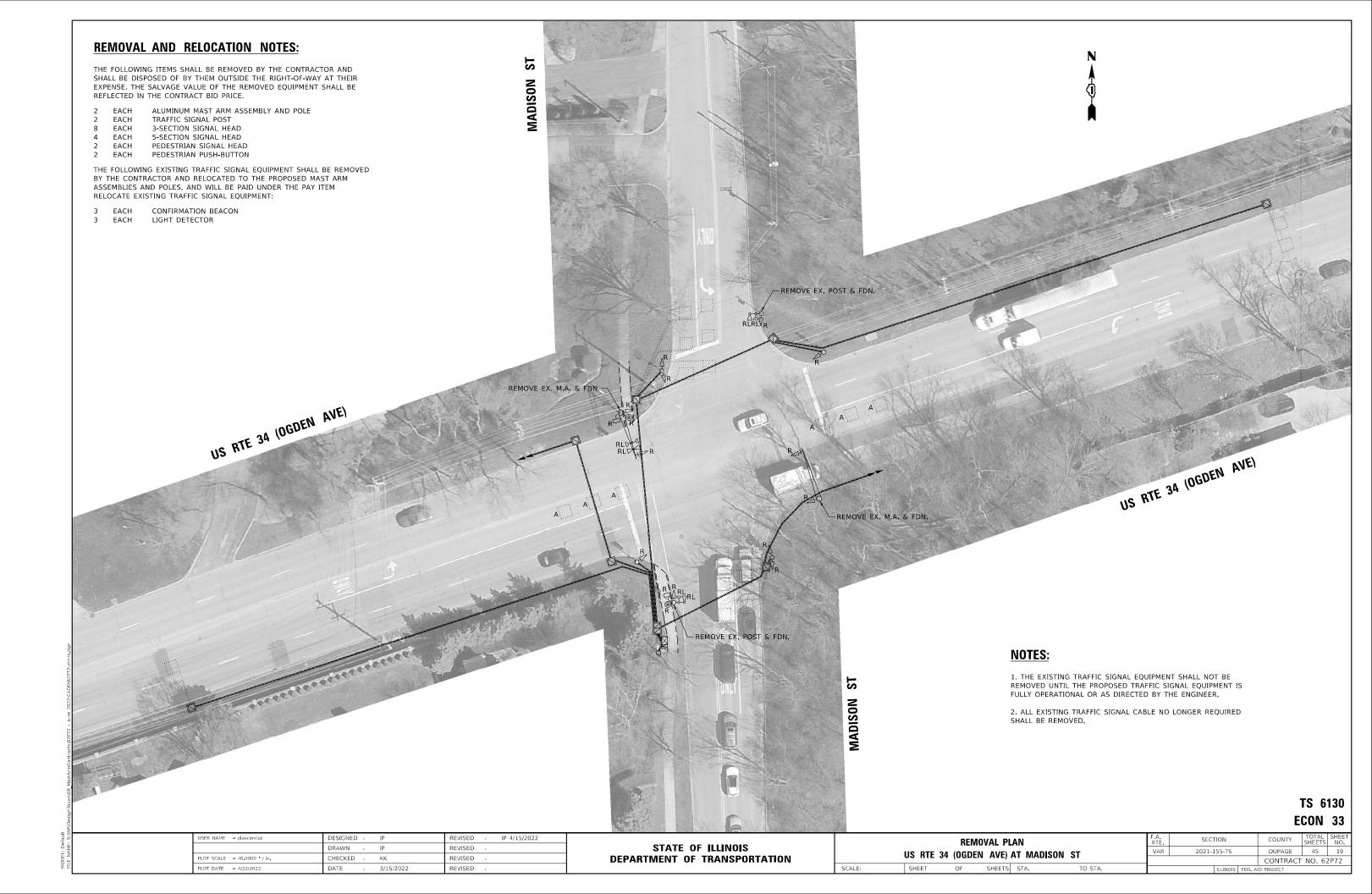
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

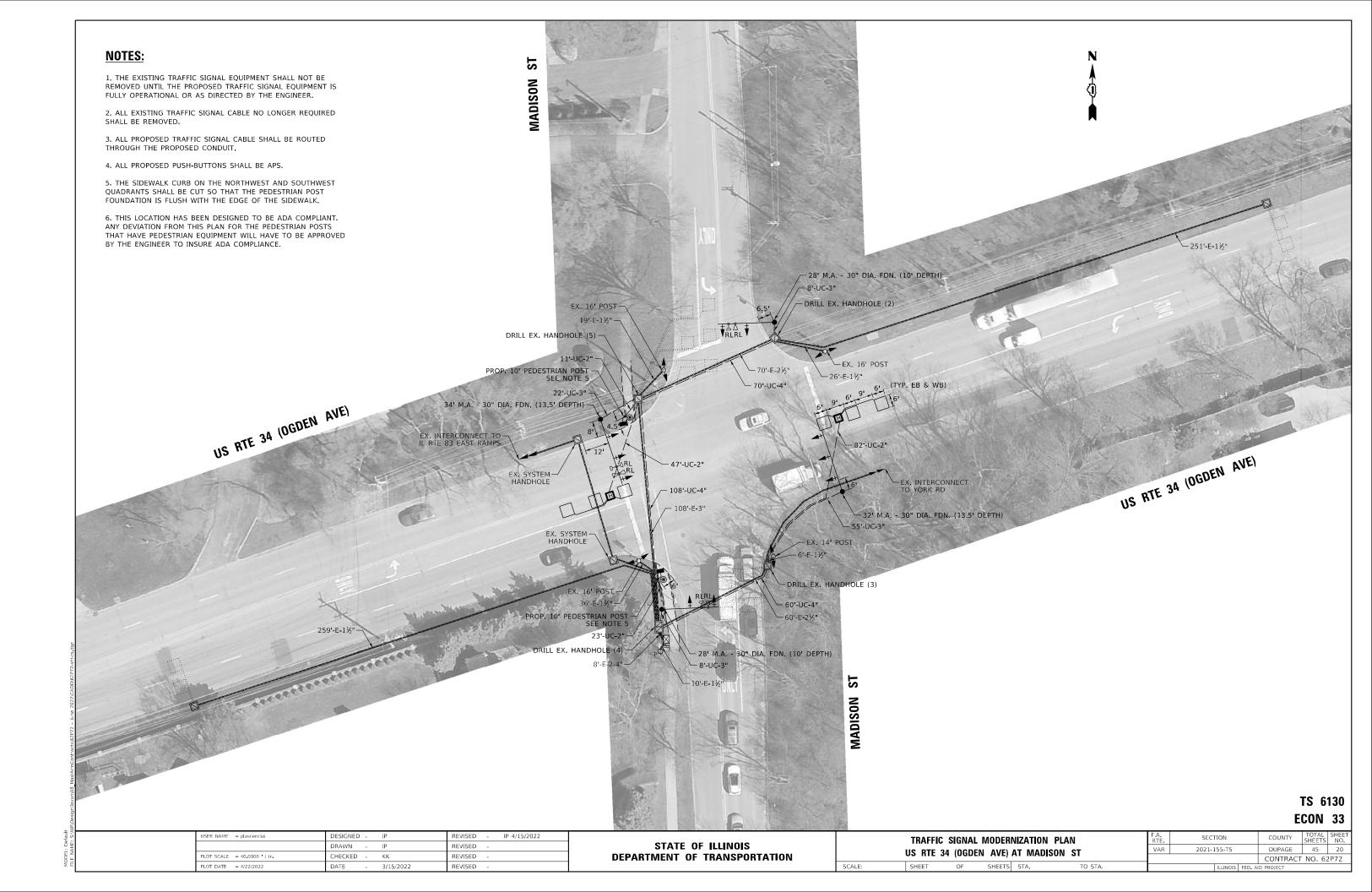
DISTRICT ONE

MAST ARM MOUNTED STREET NAME SIGNS

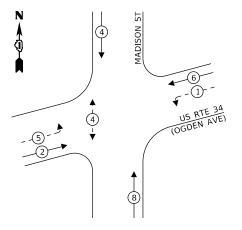
SHEET NO. 7 OF 7 SHEETS STA. TO STA.

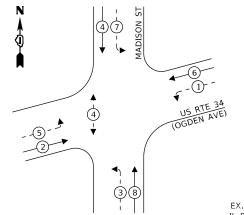
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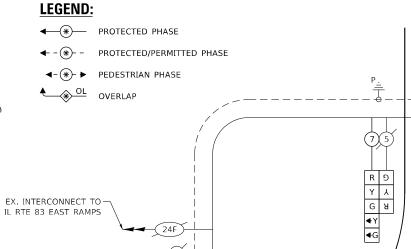


EXISTING CONTROLLER SEQUENCE PROPOSED CONTROLLER SEQUENCE





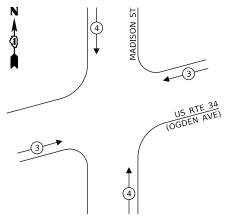
EX. TRACER CABLE -



(3) (3) (7) R Y G 4Y 4G

MADISON

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



	NOSIGWW 3
	US RTE 34 (OGDEN AVE)
3	4

ELECTRICAL SERVICE REQUIREMENTS

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 W CENTER CT

SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692

COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

TRAFFIC SIGNAL

	TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE				
	SIGNAL (RED)	18	11	50	99.0				
	(YELLOW)	18	20	5	18.0				
5	(GREEN)	18	12	45	97.2				
2022\CADD\62P72-sht-ts-dgn	PERMISSIVE ARROW	16	10	10	16.0				
sht	PED. SIGNAL	2	20	100	40.0				
P72	CONTROLLER	1	100	100	100.0				
D/62	UPS	1	25	100	25.0				
CAD	VIDEO SYSTEM	-	150	100	-				
022	BLANK-OUT SIGN	-	25	5	-				
	FLASHER	-	-	50	-				
- June	STREET NAME SIGN	-	120	50	-				
272	LUMINAIRE	-	-	-	-				
3\62P72				TOTAL =	395.2				

USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	IP 4/15/2022
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 40.0000 / in.	CHECKED	-	KK	REVISED	-	
PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US RTE 34 (OGDEN AVE) AT MADISON ST OF SHEETS STA.

CABLE PLAN

SECTION COUNTY 2021-155-TS DUPAGE 45 21 CONTRACT NO. 62P72

US RTE 34 (OGDEN AVE)

— EX. INTERCONNECT TO YORK RD

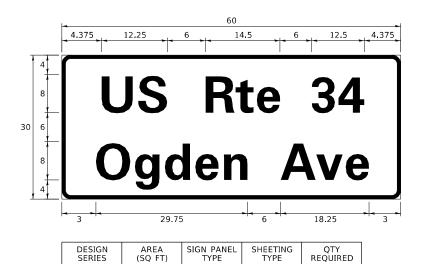
-EX. TRACER CABLE

TS	61	30	
CON	ı	33	

SIGN PANEL - TYPE 1 OR TYPE 2

12.5

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



	3.625	60 37.625	6 9.125 3.625
18 8		Vladison	St

ZZ

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

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	163
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	93
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	238
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	220
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	790
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,430
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,065
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	370
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	480
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	47
DRILL EXISTING HANDHOLE	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
DETECTOR LOOP, TYPE I	FOOT	193
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,325
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	565
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

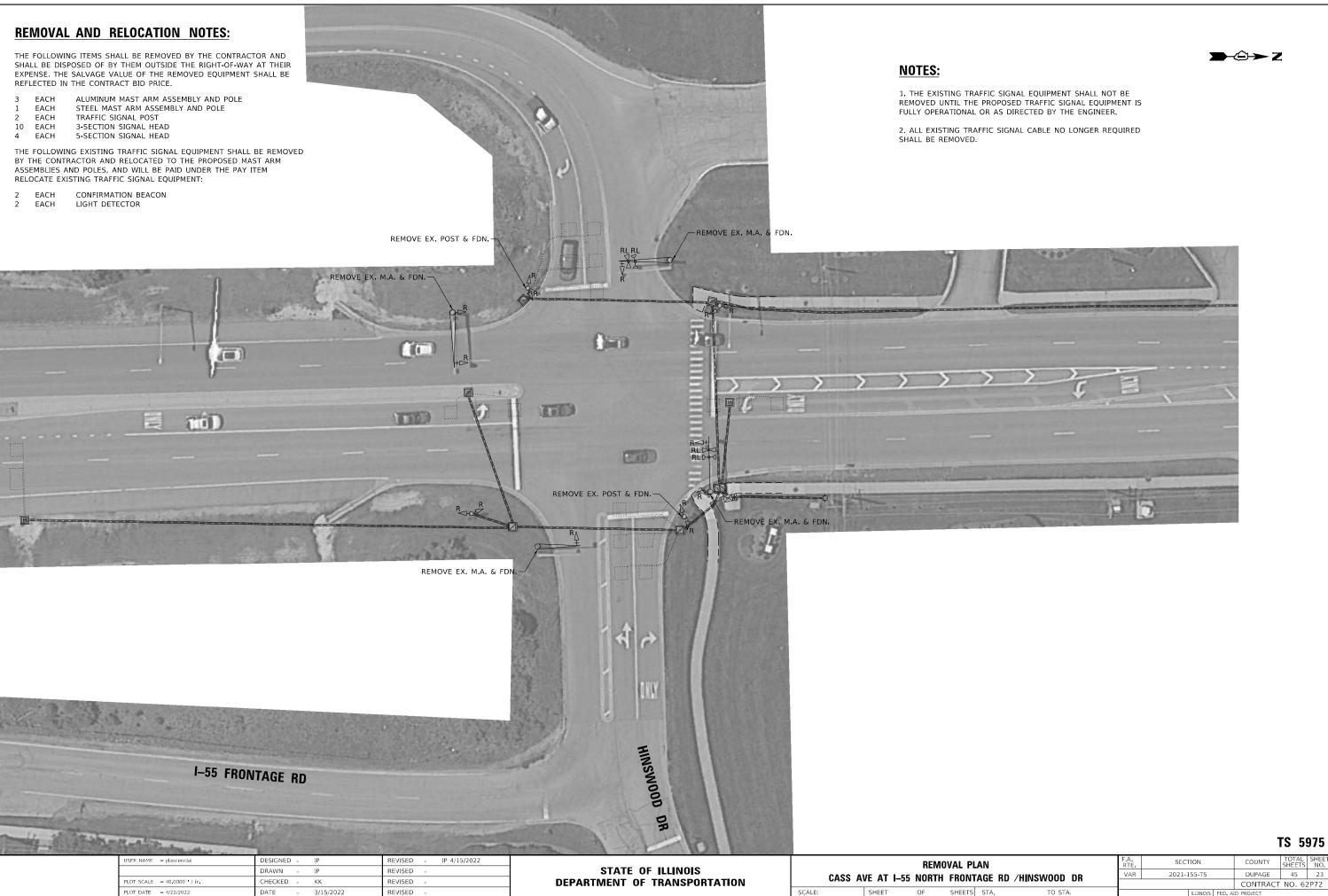
TS 6130 ECON 33

COUNTY

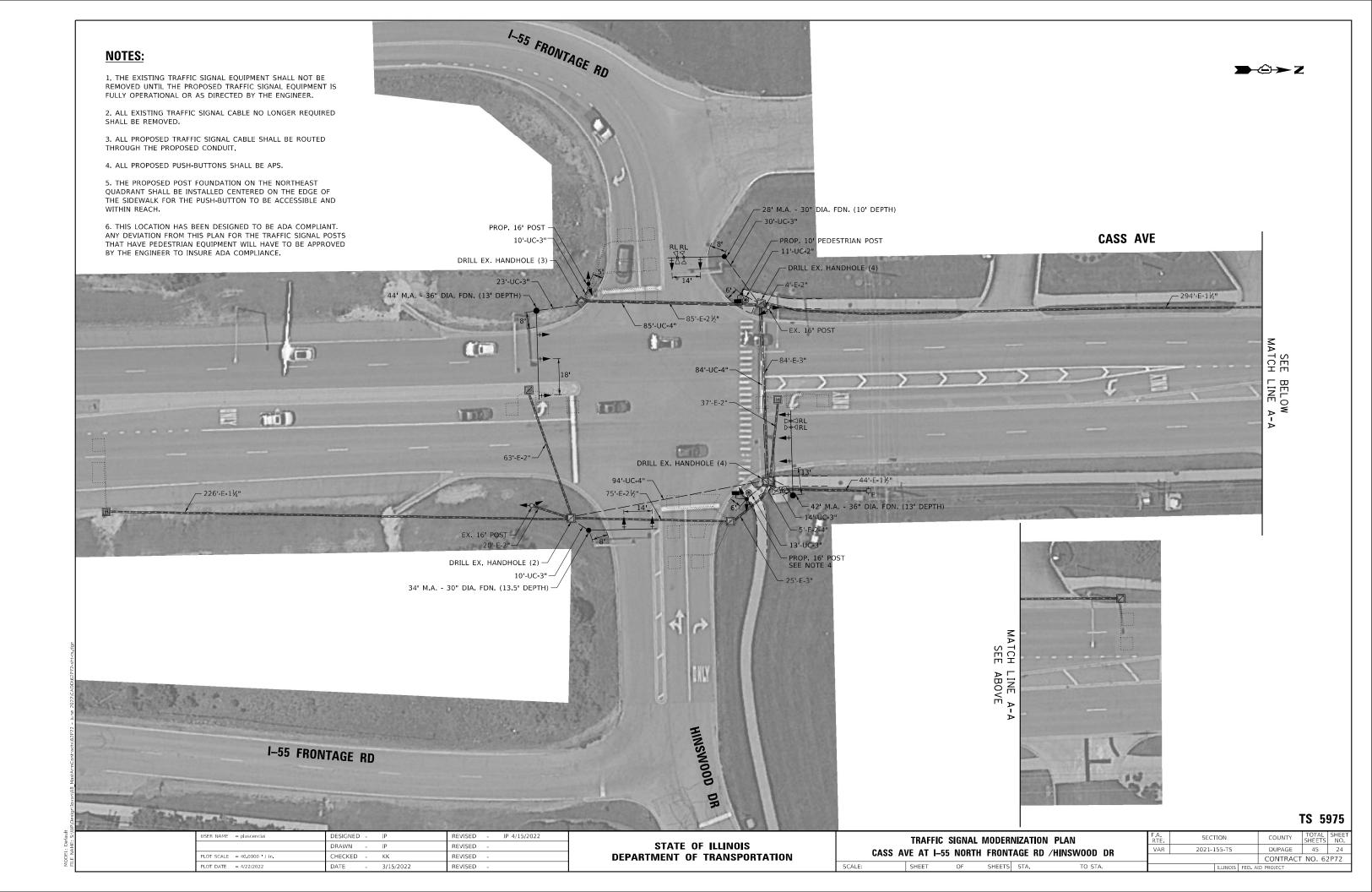
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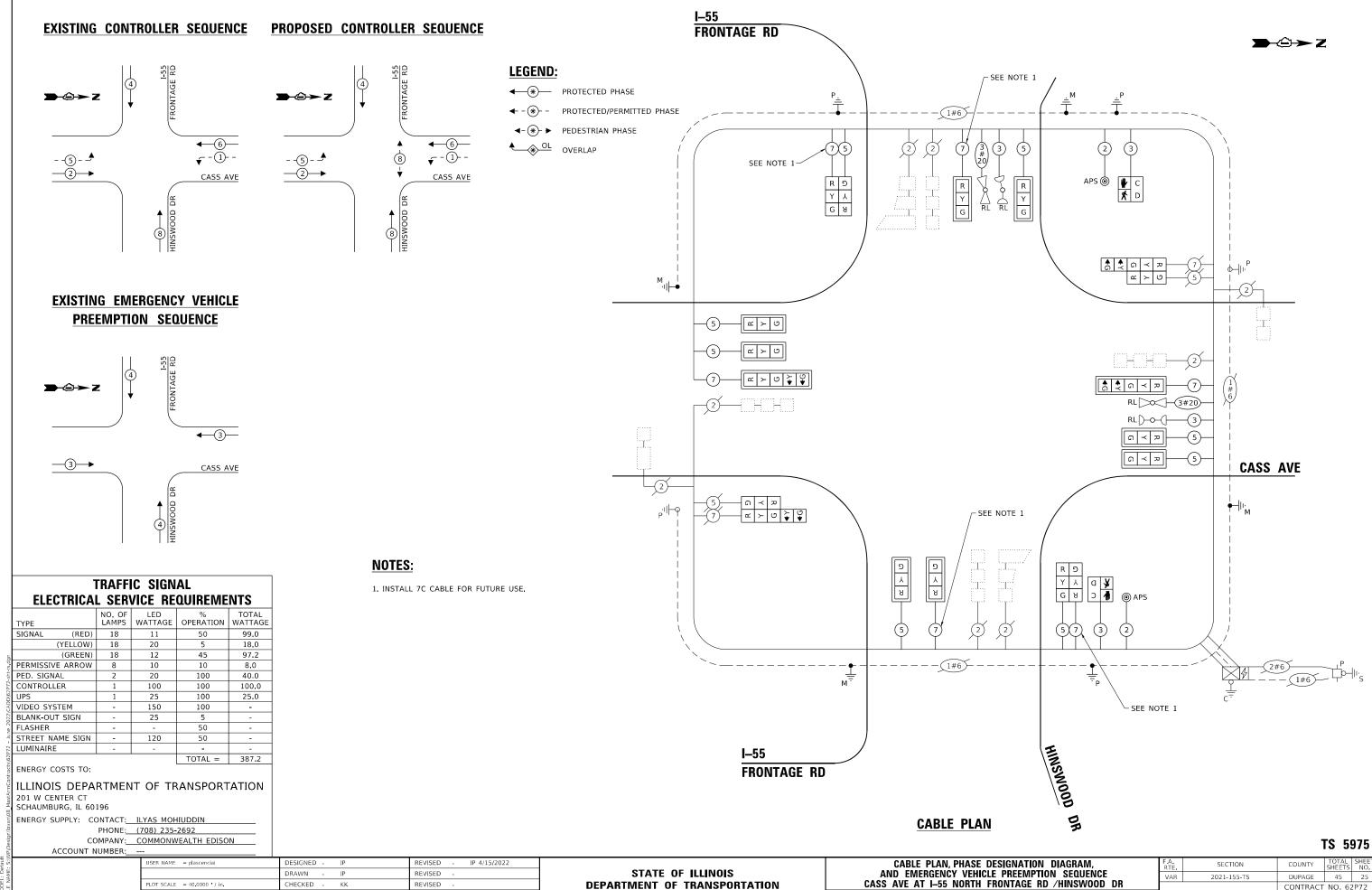
CONTRACT NO. 62P72

USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	IP 4/15/2022
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 40.0000 / in.	CHECKED	-	KK	REVISED	-	
PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-	



TS 5975





STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

2021-155-TS

DUPAGE 45 25

CONTRACT NO. 62P72

DRAWN

DATE

CHECKED

KK

3/15/2022

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 4/22/2022

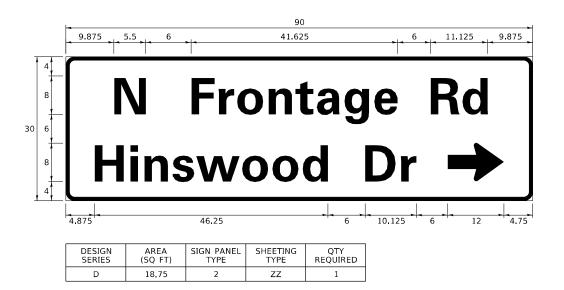
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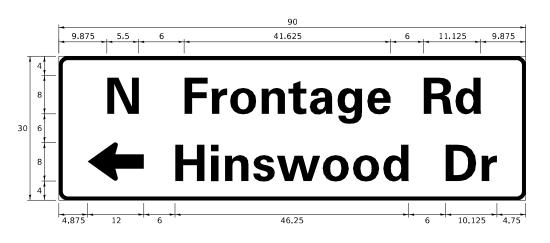
REVISED

REVISED

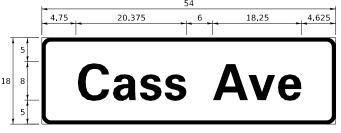
SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE





DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	18.75	2	ZZ	1
		E 4		



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

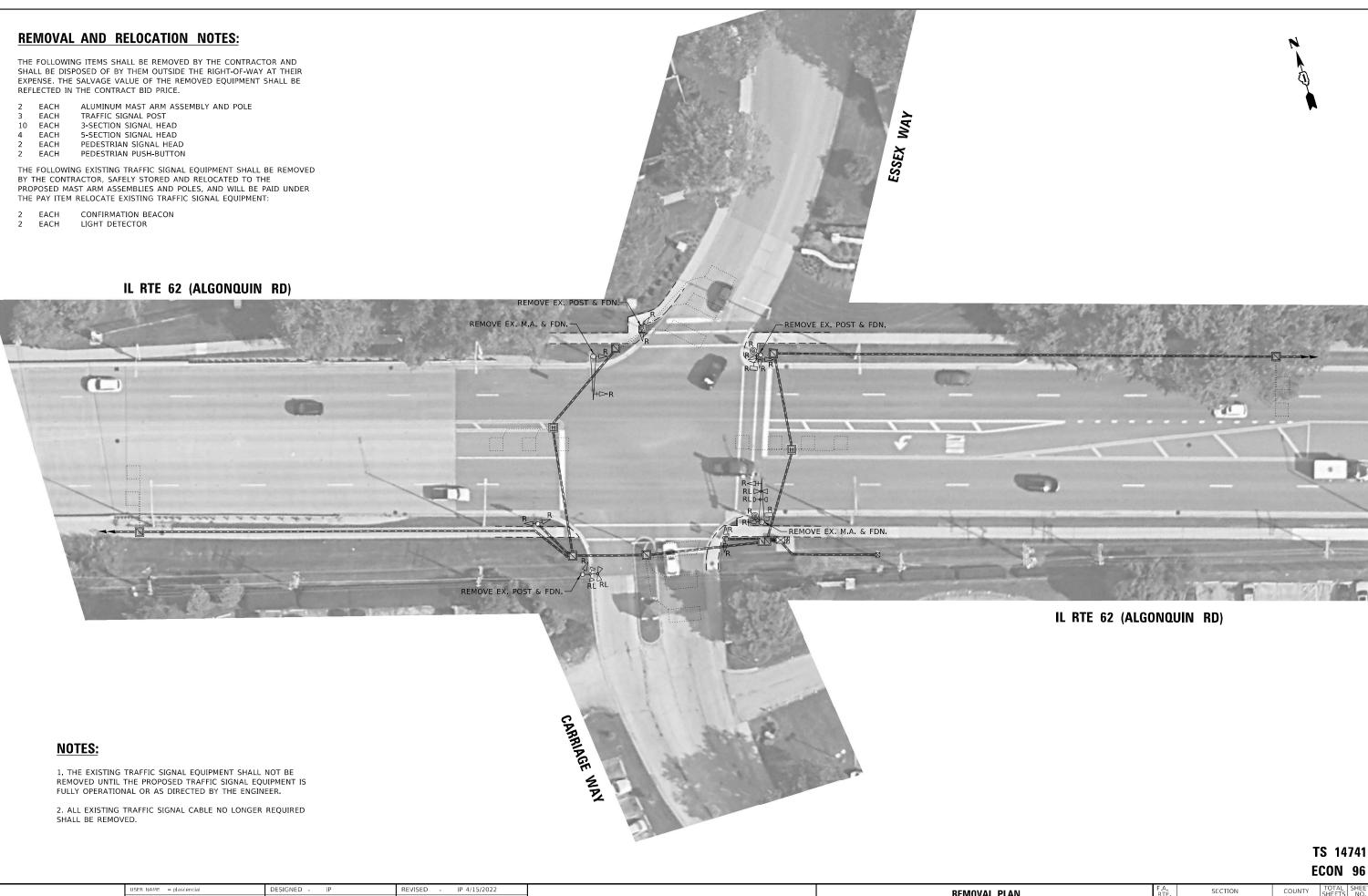
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

		TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	13.5
SIGN PANEL - TYPE 2	SQ FT	37.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	11
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	100
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	263
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	185
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	485
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,370
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,070
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	500
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,660
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	295
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

TS 5975

USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	IP 4/15/2022
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 40.0000 / in.	CHECKED	-	KK	REVISED	-	
PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-	



DRAWN

DATE

PLOT DATE = 4/22/2022

CHECKED

KK

3/15/2022

REVISED

REVISED

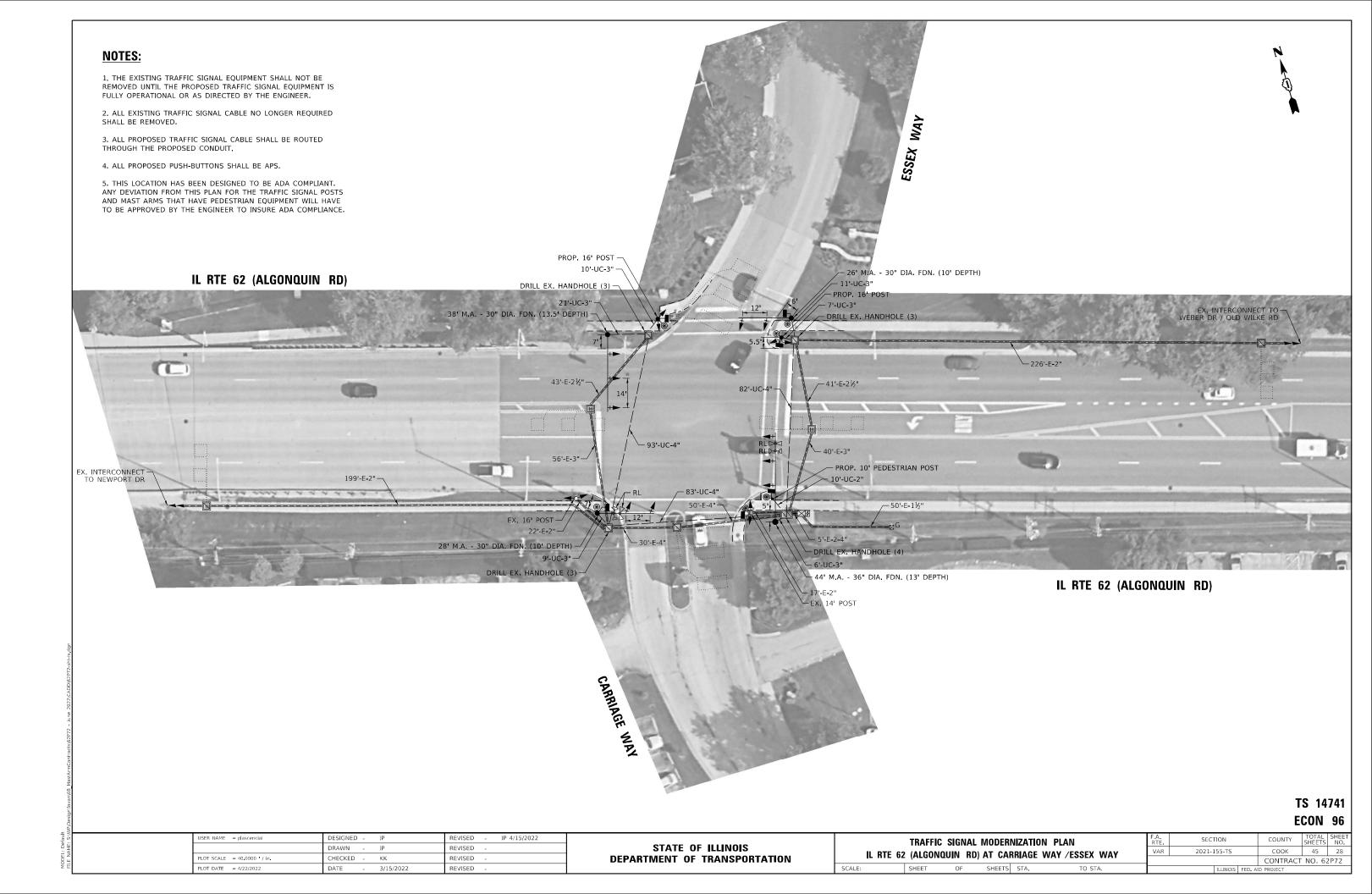
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

IL RTE 62 (ALGONQUIN RD) AT CARRIAGE WAY /ESSEX WAY

SHEET OF SHEETS STA. TO STA.

| NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO. | NO.



EXISTING CONTROLLER SEQUENCE PROPOSED CONTROLLER SEQUENCE **LEGEND**: ESSEX WAY **◆** PROTECTED PHASE ← -(*)- - PROTECTED/PERMITTED PHASE **◄-**(*)- ► PEDESTRIAN PHASE **∢**-6)- **▶** OL OVERLAP --(5)--**^ 4**-2)- ▶ ¹ IL RTE 62 IL RTE 62 (ALGONQUIN RD) (ALGONQUIN RD) 3 EX. INTERCONNECT TO WEBER DR / OLD WILKE RD R Y G ∪ □ APS ® EX. TRACER CABLE **EXISTING EMERGENCY VEHICLE** PREEMPTION SEQUENCE **4**—(3)— IL RTE 62 (ALGONQUIN RD) G ≺ 🌣 IL RTE 62 (ALGONQUIN RD) EX. INTERCONNECT TO NEWPORT DR TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS** LED WATTAGE TOTAL WATTAGE % OPERATION SIGNAL (RED) 18 99.0 (YELLOW) 18 20 18.0 EX. TRACER CABLE -(GREEN) 18 12 97.2 PERMISSIVE ARROW 10 10 8.0 (3) (5) PED. SIGNAL 100 120.0 20 CONTROLLER 100 100 100.0 25 100 25.0 VIDEO SYSTEM 150 100 CARRIAGE WAY BLANK-OUT SIGN 25 **NOTES:** FLASHER 50 SEE NOTE 1 STREET NAME SIGN 120 50 LUMINAIRE

ENERGY COSTS TO:

CITY OF ROLLING MEADOWS

3600 KIRCHOFF RD

ROLLING MEADOWS, IL 60008

ENERGY SUPPLY: CONTACT: DAVE SCHACHT

PHONE: (630) 437-2129 COMPANY: COMMONWEALTH EDISON

TOTAL =

467.2

ACCOUNT NUMBER: ---

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

CABLE PLAN

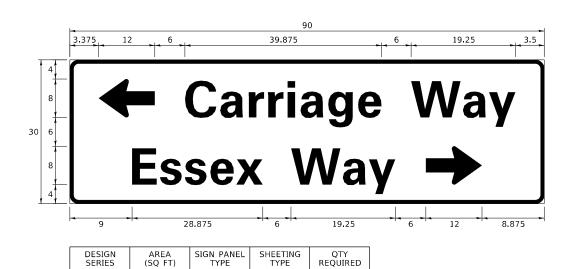
TS 14741 ECON 96

JIIDEIK															
	USER NAME = plascenciai	DESIGNED - IP	REVISED - IP 4/15/2022		C	ABLE PLAI	N, PHASE	DESIGN	NATION DIA	GRAM,	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET
		DRAWN - IP	REVISED -	STATE OF ILLINOIS	AND					SEQUENCE	VAR	2021-155-TS	соок	45	29
	PLOT SCALE = 40.0000 / in.	CHECKED - KK	REVISED -	DEPARTMENT OF TRANSPORTATION	IL RTE 62	2 (ALGONO	UIN RD)	AT CAP	RRIAGE WAY	/ /ESSEX WAY			CONTRAC	T NO. 6	2P72
	PLOT DATE = 4/22/2022	DATE - 3/15/2022	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	ID PROJECT		

SIGN PANEL - TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE







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

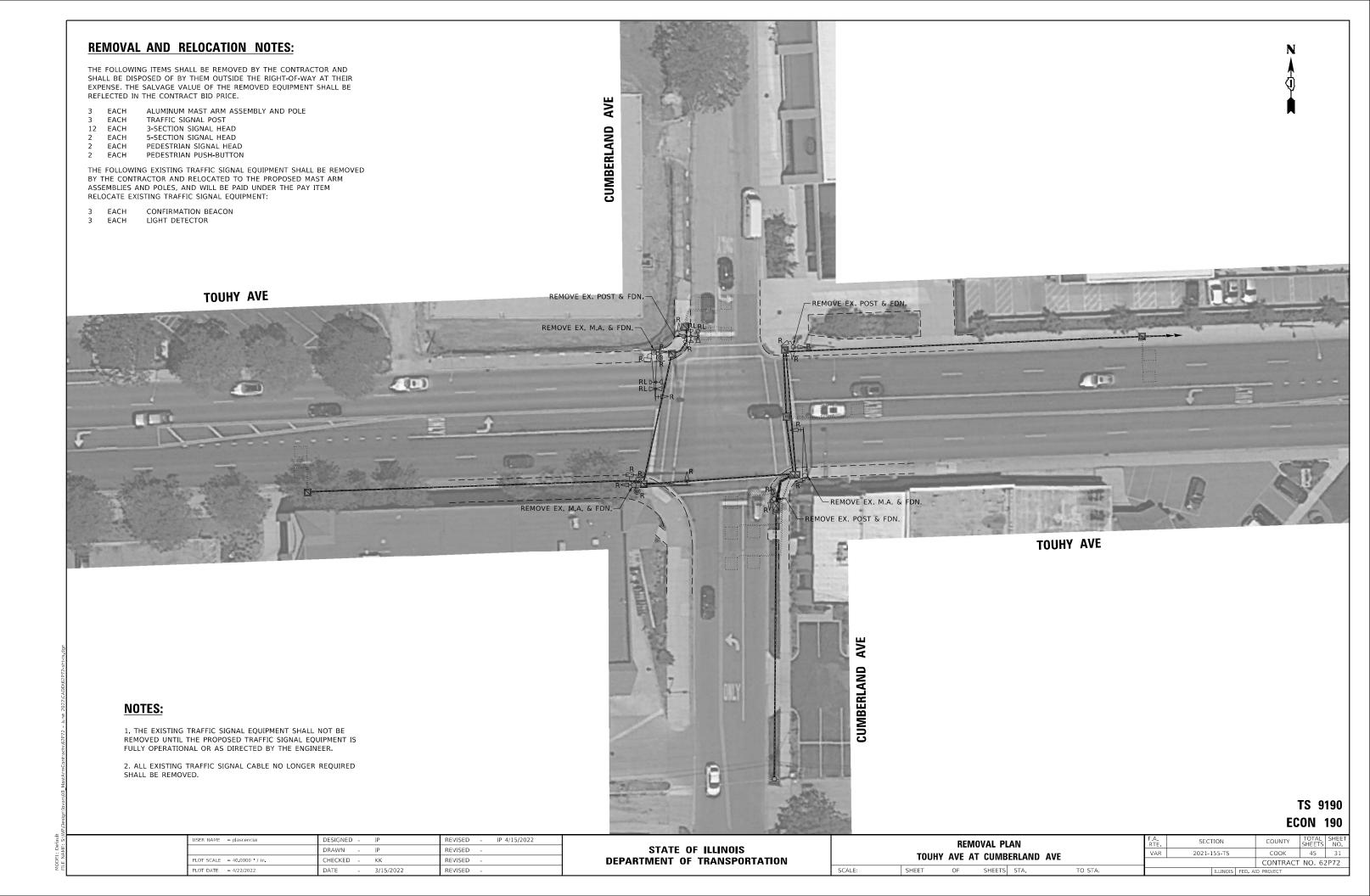
SCHEDULE OF QUANTITIES

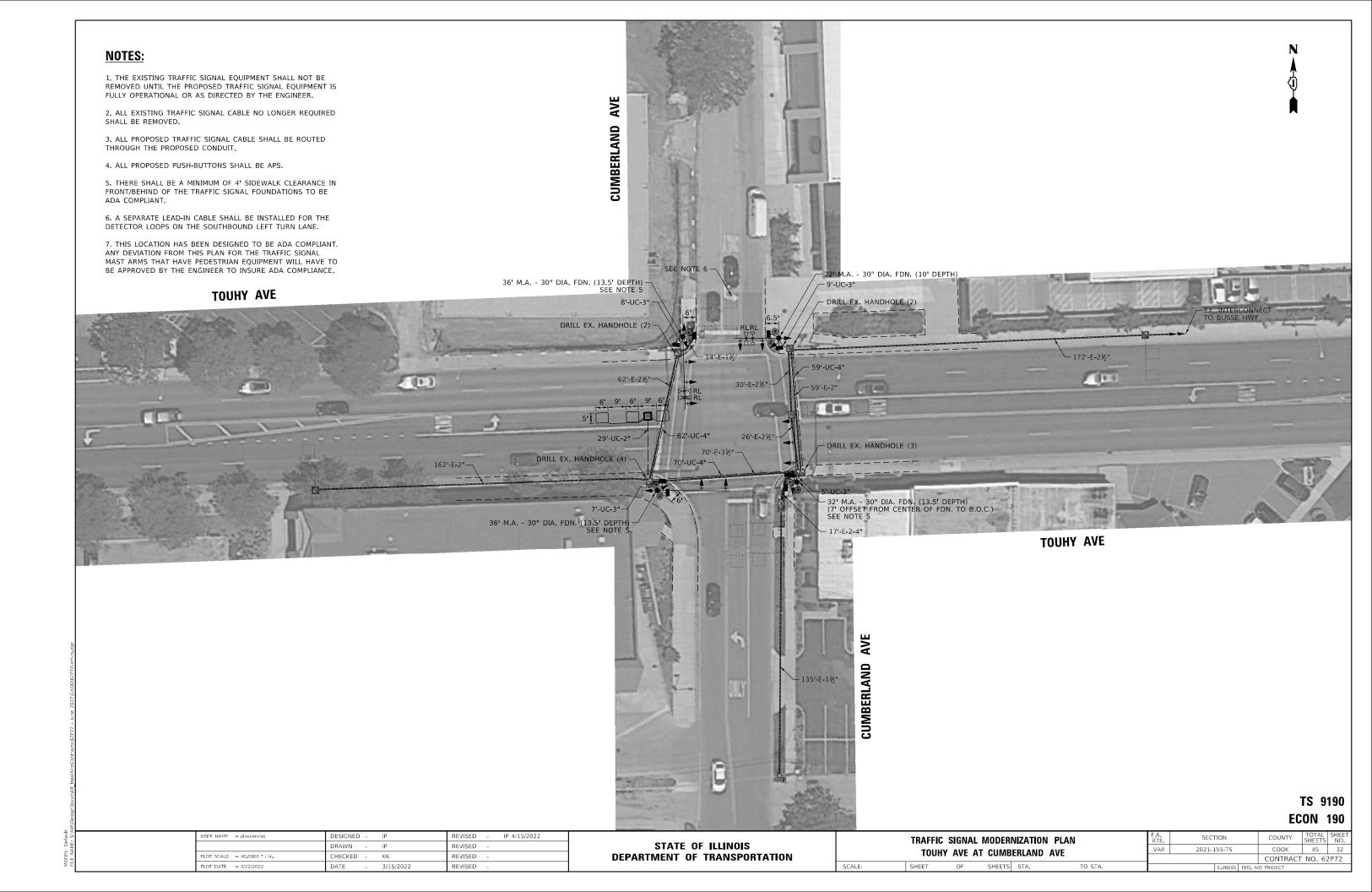
ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 2	SQ FT	67.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	10
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	64
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	258
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	725
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,015
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,105
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	525
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	460
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,215
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	265
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 14741 ECON 96

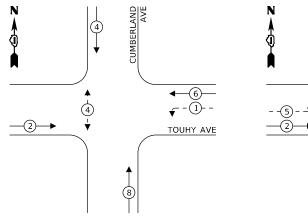
USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	IP 4/15/2022
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 40.0000 / in.	CHECKED	-	KK	REVISED	-	
PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-	

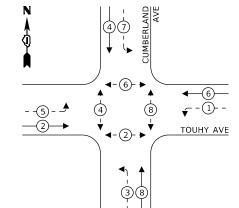
N	IAST ARM				AIVIE SIUIVS	F.A. RTE	SECT	LION		COUNTY	TOTAL SHEETS
			ULE OF C			VAR	2021-1	155-TS		COOK	45
IL RIE 62	(ALGONO	UIN KL) AI CAR	RIAGE	WAY /ESSEX WAY					CONTRACT	NO. 62
:	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT	



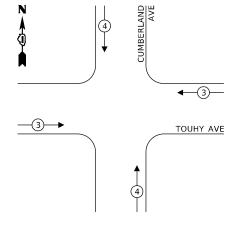


EXISTING CONTROLLER SEQUENCE PROPOSED CONTROLLER SEQUENCE





EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

	TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
	SIGNAL (RED)	18	11	50	99.0
	(YELLOW)	18	20	5	18.0
_	(GREEN)	18	12	45	97.2
0	PERMISSIVE ARROW	16	10	10	16.0
2	PED. SIGNAL	8	20	100	160.0
7/1	CONTROLLER	1	100	100	100.0
0/07	UPS	1	25	100	25.0
2	VIDEO SYSTEM	-	150	100	-
770	BLANK-OUT SIGN	-	25	5	-
7	FLASHER	-	-	50	-
3	STREET NAME SIGN	-	120	50	-
71	LUMINAIRE	-	-	-	-
200			-	TOTAL =	515.2

ENERGY COSTS TO:

CITY OF PARK RIDGE

505 BUTLER PLACE PARK RIDGE, IL 60068

ENERGY SUPPLY: CONTACT: TERRI BLECK

PHONE: (847) 816-5239

COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER:

DESIGNED -IP 4/15/2022 REVISED DRAWN REVISED HECKED KK REVISED PLOT DATE = 4/22/2022 DATE 3/15/2022 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE TOUHY AVE AT CUMBERLAND AVE SHEETS STA.

CUMBERLAND

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(3)

(2) (7) (5)

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SECTION 2021-155-TS COOK 45 33 CONTRACT NO. 62P72

TS 9190

ECON 190

— EX. INTERCONNECT TO BUSSE HWY

-EX. TRACER CABLE

GEND:						
_	PROTE	CTED	PHAS	E		
-*	PROTE	CTED/I	PERM	ITTEC	PHA	SE
_	PEDES ⁻	TRIAN	PHAS	SE		
→ OL	OVERL	AP				
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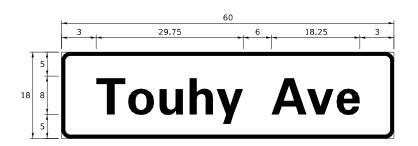
APS O A В (5)(7)(2)

CABLE PLAN

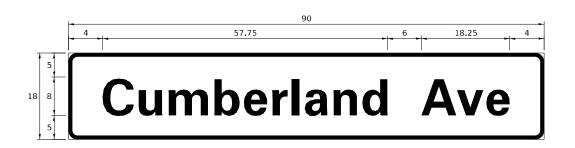
TOUHY AVE

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



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

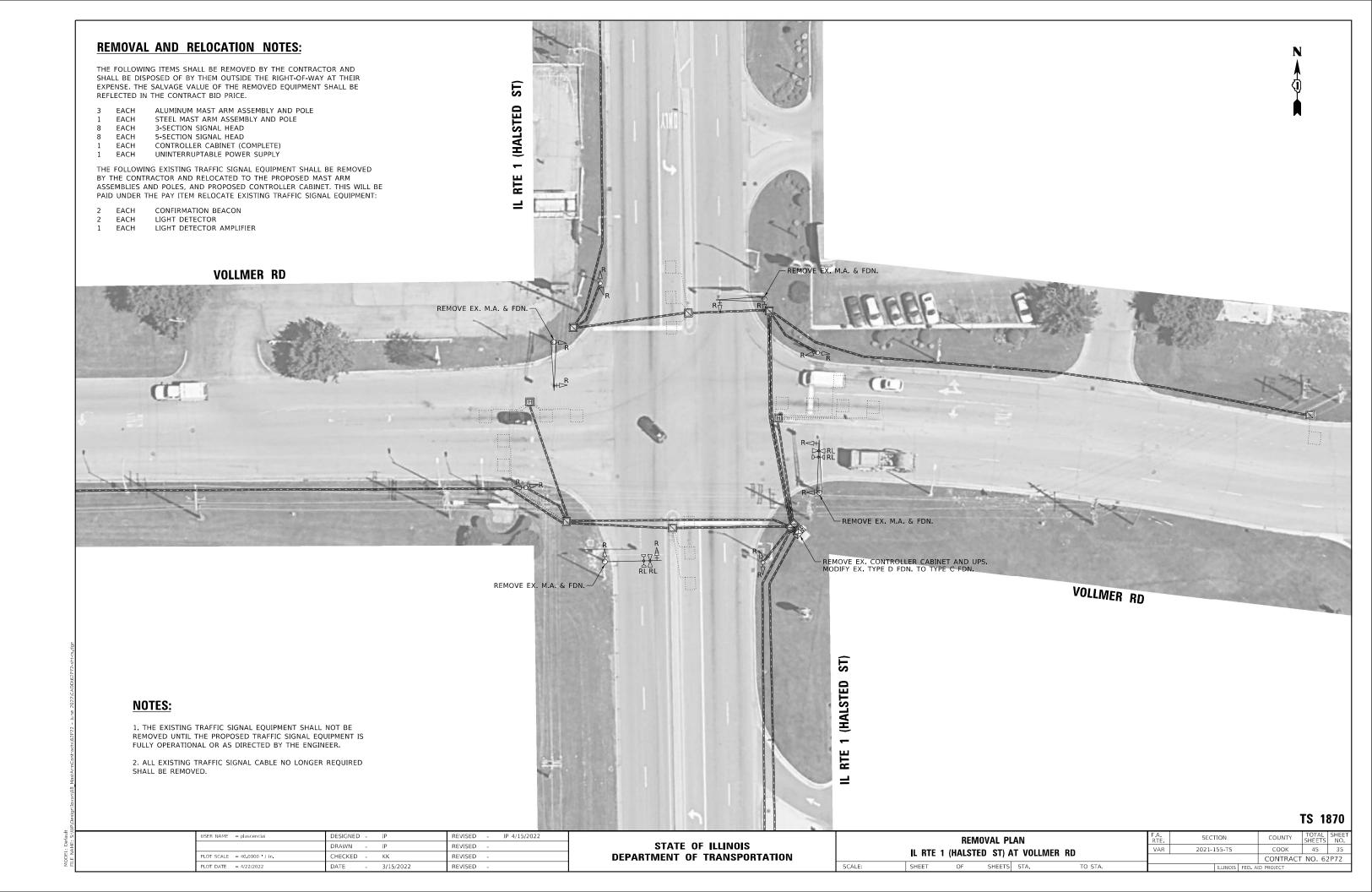
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

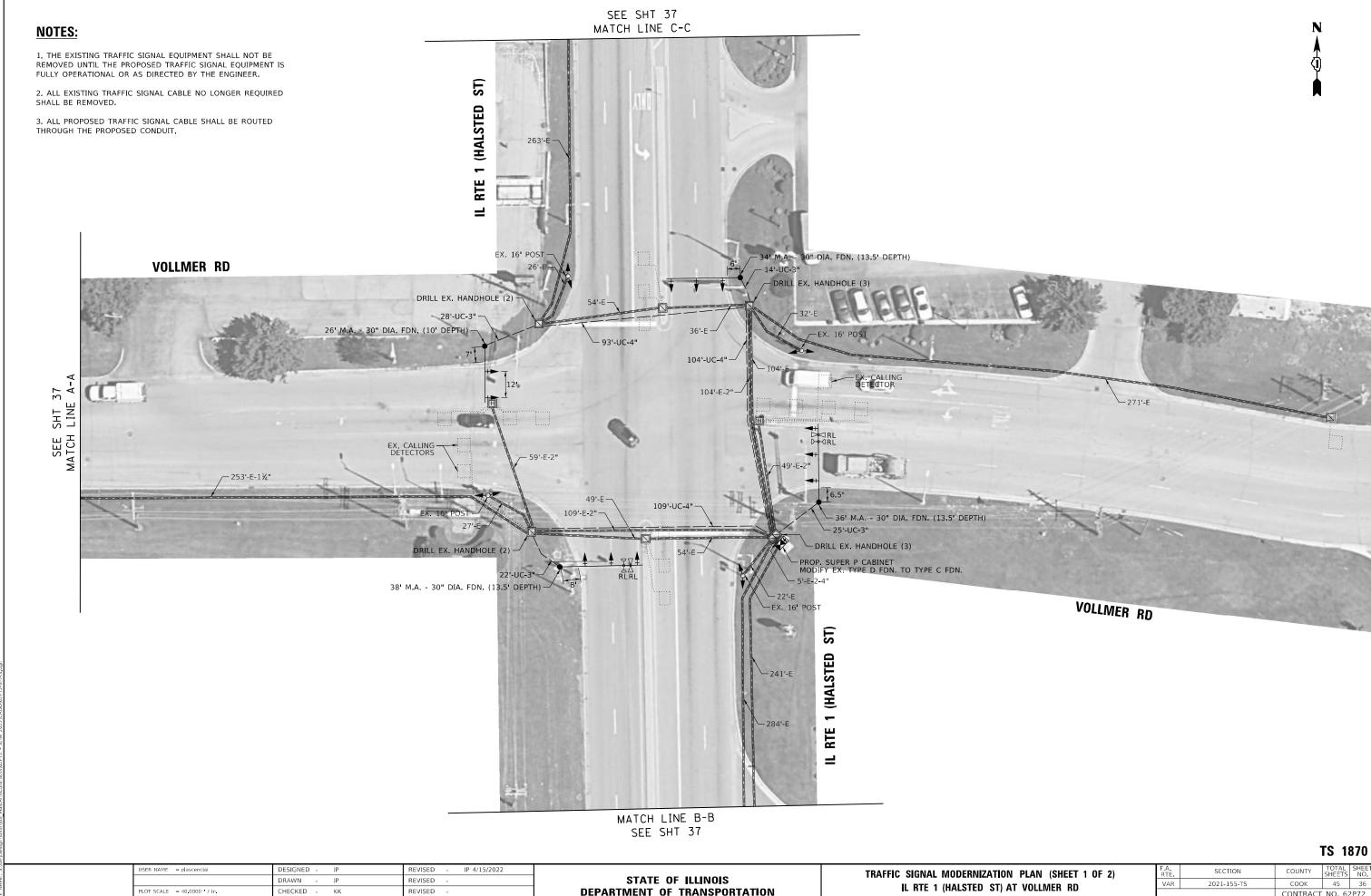
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	15
SIGN PANEL - TYPE 2	SQ FT	22.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	29
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	29
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	191
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	995
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,575
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,440
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,200
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	350
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	305
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	2
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50.5
DRILL EXISTING HANDHOLE	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	90
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,000
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	550
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 9190 ECON 190

USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	IP 4/15/2022
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 40.0000 / in.	CHECKED	-	KK	REVISED	-	
PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-	





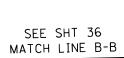
DATE

3/15/2022

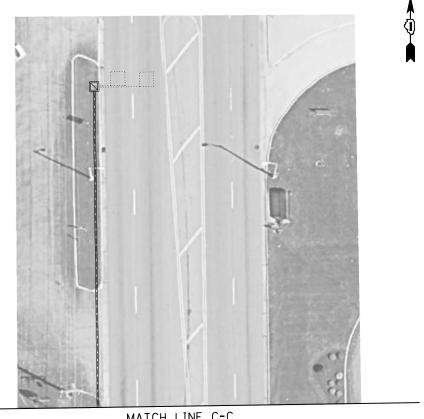
DEPARTMENT OF TRANSPORTATION

IL RTE 1 (HALSTED ST) AT VOLLMER RD

COOK 45 36 2021-155-TS CONTRACT NO. 62P72





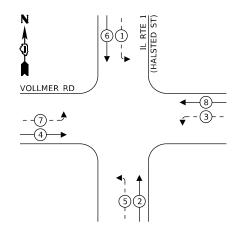


MATCH LINE C-C SEE SHT 36

TS 1870

USER NAME = plascenciai	DESIGNED - IP	REVISED - IP 4/15/2022		т	RAFFIC SIGNAL	MODERN	ΠΖΑΤΙΛΙ	N PLAN (SI	HEET 2 OF 2\	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN - IP	REVISED -	STATE OF ILLINOIS	TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)						VAR	2021-155-TS	СООК	45	37
PLOT SCALE = 40.0000 / in.	CHECKED - KK	REVISED -	DEPARTMENT OF TRANSPORTATION		IL RTE 1 (HALSTED ST) AT VOLLMER RD						CONTRACT			2P72
PLOT DATE = 4/22/2022	DATE - 3/15/2022	REVISED -		SCALE:	SCALE: SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT						

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

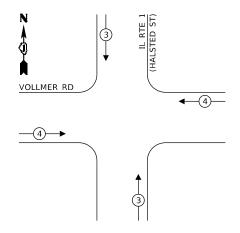
◆ PROTECTED PHASE

PROTECTED/PERMITTED PHASE

√
−
(*)
−
PEDESTRIAN PHASE

♦ OL OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	104.5
(YELLOW)	19	20	5	19.0
(GREEN)	19	12	45	102.6
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	367.1

ENERGY COSTS TO:

CITY OF CHICAGO HEIGHTS

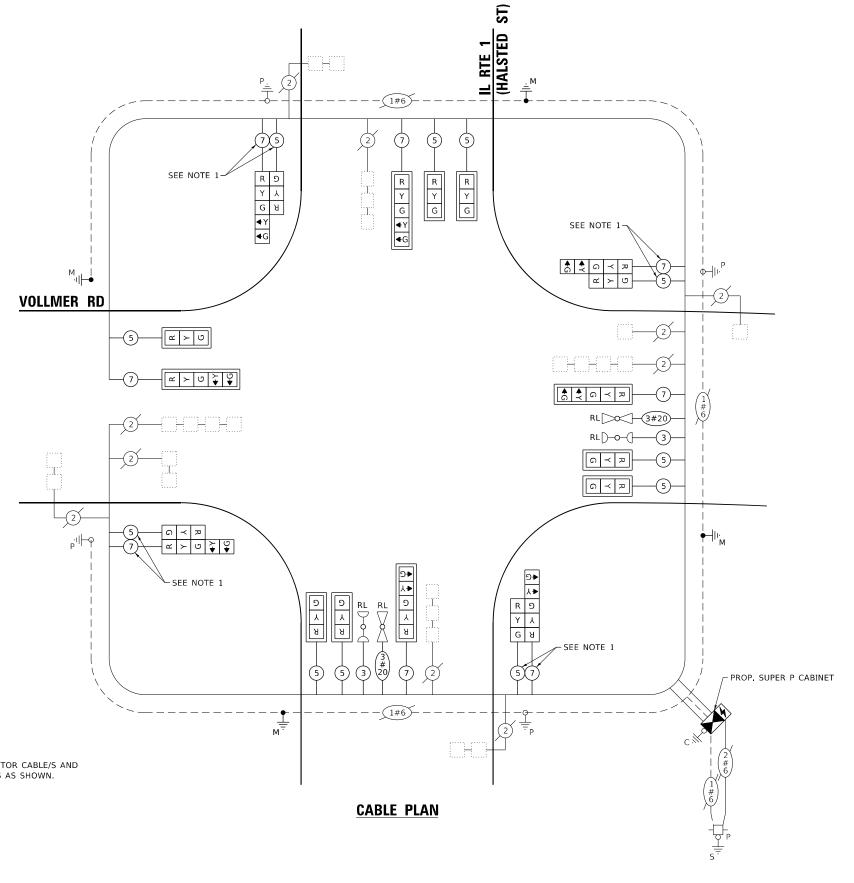
1601 CHICAGO RD CHICAGO HEIGHTS, IL 60411

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN

PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:

NOTES:

1. REMOVE EXISTING SHARED MULTI-CONDUCTOR CABLE/S AND REPLACE WITH SEPARATE 5C AND 7C CABLES AS SHOWN.



TS 1870

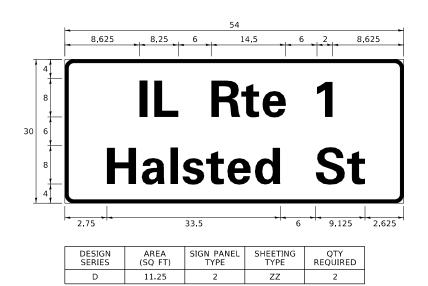
DESIGNED -IP 4/15/2022 REVISED DRAWN REVISED HECKED KK REVISED PLOT DATE = 4/22/2022 3/15/2022

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

SECTION 2021-155-TS COOK 45 38 CONTRACT NO. 62P72

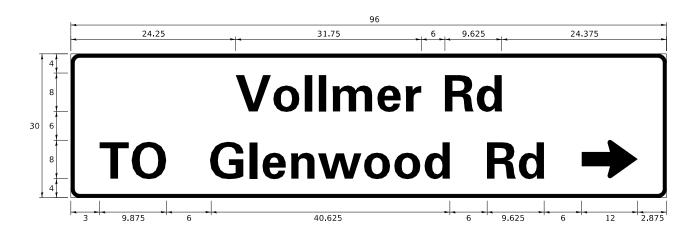
SIGN PANEL - TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

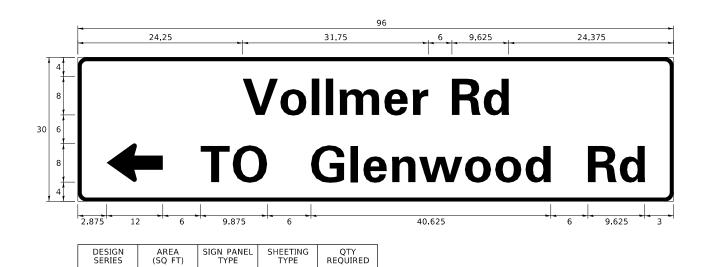


SIGN PANEL

SHEETING



QTY REQUIRED



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 2	SQ FT	62.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	89
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	306
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	325
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,970
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,555
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	480
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50.5
DRILL EXISTING HANDHOLE	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	10
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,600
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	325
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8

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

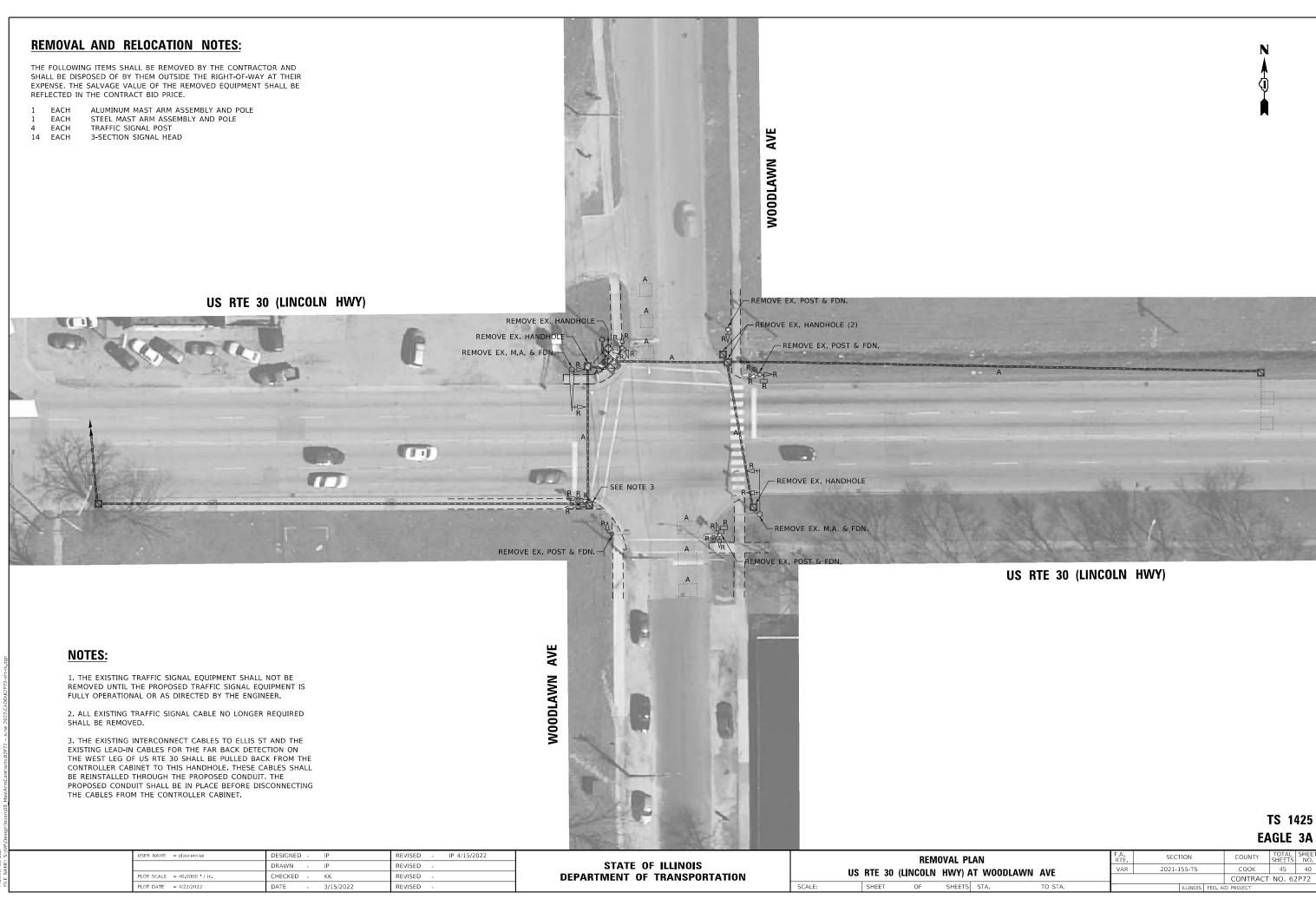
TS 1870

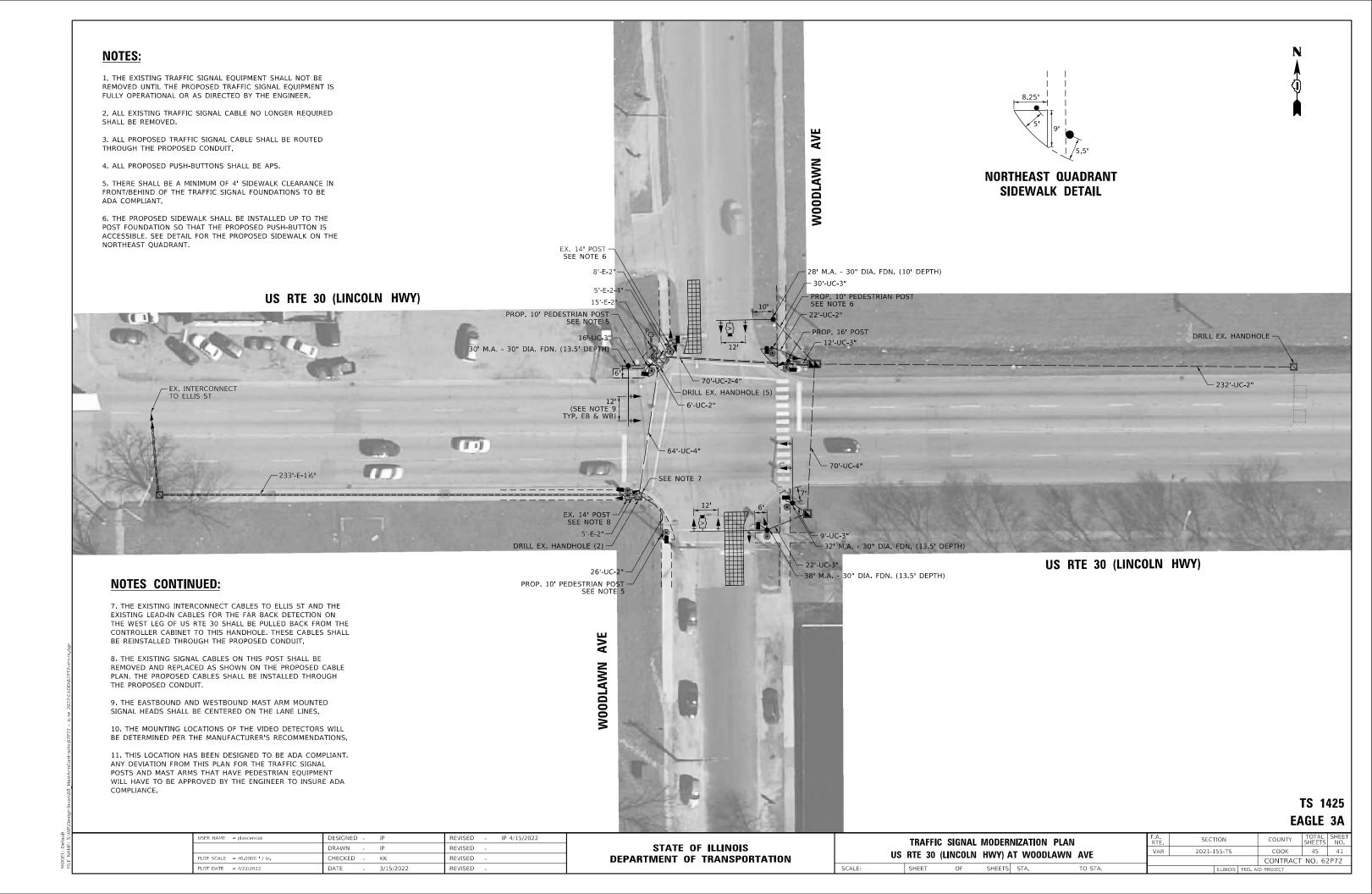
USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	IP 4/15/2022
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 40.0000 / in.	CHECKED	-	KK	REVISED	-	
PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-	

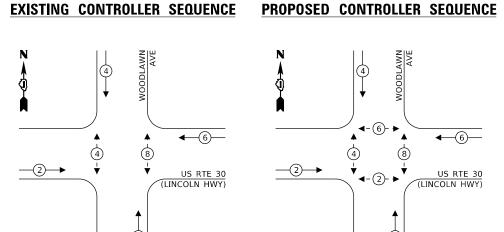
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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	SECTION	ON	COUNTY	TOTAL SHEETS	SHEE		
R	2021-15	5-TS	COOK	45	39		
					CONTRACT	NO. 62	2P72
	TI	LUMOIS	EED	Λ	D DROIECT		







LEGEND:

◆ PROTECTED PHASE

← -(*)- - PROTECTED/PERMITTED PHASE

◄- *- > PEDESTRIAN PHASE

OVERLAP OVERLAP

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

	TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
	SIGNAL (RED)	16	11	50	88.0
	(YELLOW)	16	20	5	16.0
_	(GREEN)	16	12	45	86.4
o.	PERMISSIVE ARROW	-	10	10	-
2	PED. SIGNAL	8	20	100	160.0
7/1	CONTROLLER	1	100	100	100.0
0/07	UPS	1	25	100	25.0
2	VIDEO SYSTEM	-	150	100	-
777	BLANK-OUT SIGN	-	25	5	-
7	FLASHER	-	-	50	-
3	STREET NAME SIGN	-	120	50	-
71	LUMINAIRE	-	-	-	-
2				TOTAL =	475.4

ENERGY COSTS TO:

VILLAGE OF FORD HEIGHTS

1343 ELLIS AVE

FORD HEIGHTS, IL 60411

ENERGY SUPPLY: CONTACT: <u>ILYAS MOHIUDDIN</u>
PHONE: (708) 235-2692

COMPANY: COMMONWEALTH EDISON

ACCOUNT NUMBER: ---

 USER NAME
 e plasencial
 DESIGNED
 IP
 REVISED
 IP 4/15/2022

 DRAWN
 IP
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
US RTE 30 (LINCOLN HWY) AT WOODLAWN AVE

SHEET OF SHEETS STA. TO STA.

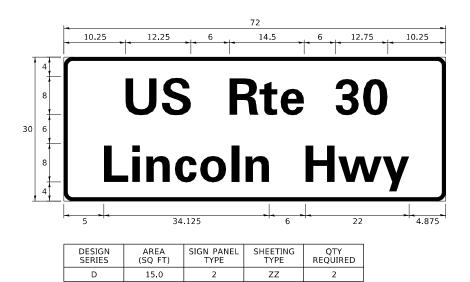
W00DLAWN (v)(2) APS 🞯-G ≺ ¬¬ G ≺ R US RTE 30 (LINCOLN HWY) EX. INTERCONNECT -Я TO ELLIS ST ∪ <u>□</u> **≫** ● APS (5) 3 (v)EX. TRACER CABLE -**CABLE PLAN**

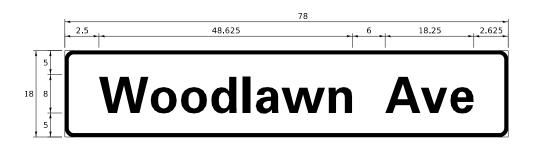
TS 1425 EAGLE 3A

EL: Default NAME: S:\WP\De

SIGN PANEL - TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE





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

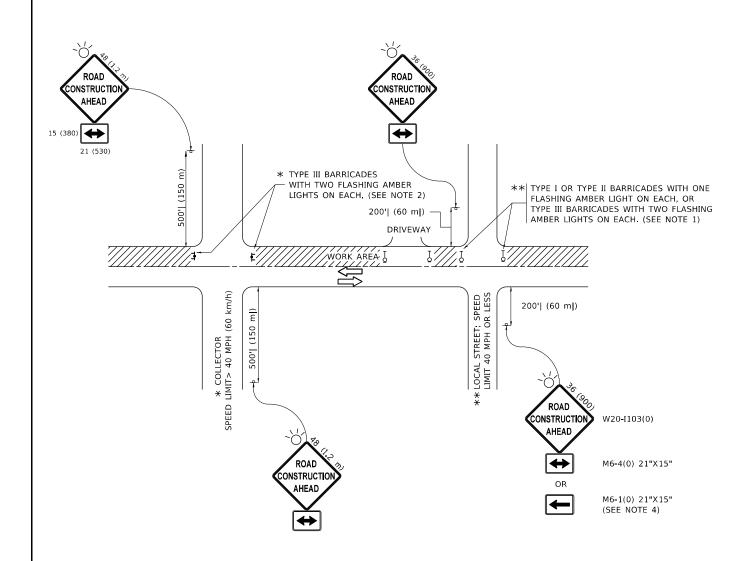
NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
EARTH EXCAVATION	CU YD	1
PROTECTIVE COAT	SQ YD	6
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	52
SIGN PANEL - TYPE 2	SQ FT	49.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	286
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	89
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	274
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	960
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	990
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,495
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	690
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	595
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50.5
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,500
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	520
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
TEMPORARY INFORMATION SIGNING	SQ FT	51.4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

USER NAME = plascenciai	DESIGNED	-	IP	REVISED	-	IP 4/15/2022
	DRAWN	-	IP	REVISED	-	
PLOT SCALE = 40.0000 / in.	CHECKED	-	KK	REVISED	-	
PLOT DATE = 4/22/2022	DATE	-	3/15/2022	REVISED	-	

M	AST ARM	F.A. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.				
	AND	VAR	2021-155-TS			COOK	45	43				
US	RTE 30 (L					CONTRACT	NO. 62	2P72				
	SHEET OF SHEETS STA. TO STA.							ILLINOIS	FED. A	D PROJECT		



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).

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

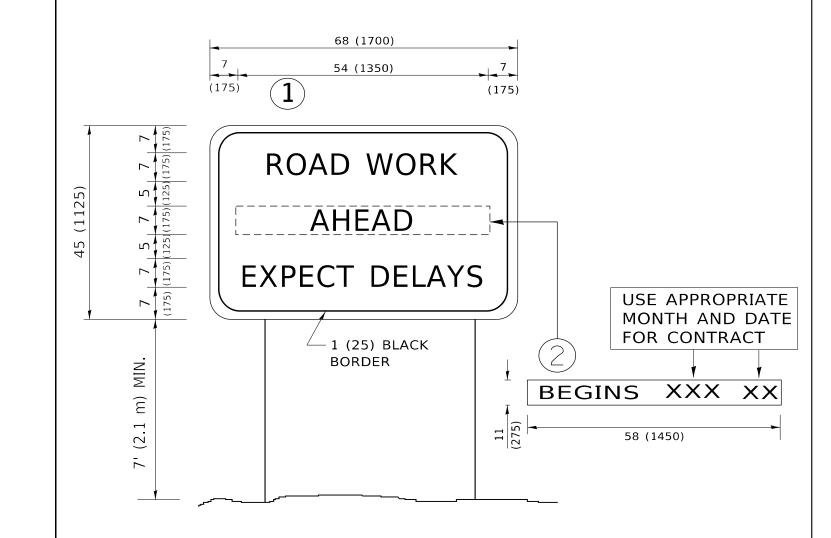
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = plascenciai	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 = 3/25/2022	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SHEET 1 OF 1 SHEETS STA. TO ST



NOTES:

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

SHEET 1

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 = plascenciai	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 = 3/25/2022	DATE -	REVISED	- C. JUCIUS 01-31-07

ARTERIAL ROAD INFORMATION SIGN			F.A. RTE	SECTION	COUNTY	T SH	
			VAR	2021-155-TS	VARIOUS		
			TC-22		CONTRACT	Λ	
OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		AID PROJECT	_