

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS
VARIOUS LOCATIONS IN COOK COUNTY

SECTION 2023-941-N, TS
PROJECT HSIP-WGJJ(923)
TROMBONE MAST ARM REPLACEMENT
COOK COUNTY

C-91-174-24



P.B.F.

5-12-2025

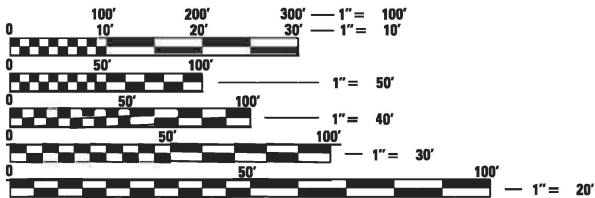
P. BRIEN FUNK II
EXPIRES: 11-30-2025

DATE

iteris

ITERIS, INC.
319 W STATE STREET, SUITE 200
GENEVA, IL 60134

IL DESIGN FIRM NO: 184007145-0002



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: ANDREA VARGAS
PROJECT MANAGER: NICHOLAS BUTLER

CONTRACT NO. 62W57

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023-941-N, TS	COOK	52	1
		ILLINOIS	CONTRACT NO. 62W57	

D-91-151-24



FOR LOCATION MAP
SEE SHEET NO. 3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *May 7, 2025*

[Signature] REGIONAL ENGINEER

June 27, 2025

[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

June 27, 2025

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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FILE Name C:\Sharepoint\ITERIS INC\Systems - Midwest - Chicago Construction\IDOT P1B 204-010 D1 APS PROJECT MANAGEMENT\12356 - WO 10 - North Cook Mast Arm Upgrade\cadd\Sheet Files\162W57_Index & Notes.dgn

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IDOT HIGHWAY STANDARDS

STD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15’ (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15’ (4.5m) TO 24” (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15’ (4.5m) TO 24” (600mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15’ (4.5m) AWAY
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L SW, MOVING OPERATIONS DAY ONLY
701426-09	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATIONS 45 MPH OR MORE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE
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	HANDHOLES
814001-03	DOUBLE HANDHOLES
814006-03	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16’ THROUGH 55’
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56’ THROUGH 75’
877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

1 ADDENDUM 1

GENERAL NOTES

1.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL “JULIE” AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION IS REQUIRED).
2.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
3.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING ANY MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
4.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL “JULIE” AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HRS NOTIFICATION REQUIRED).
5.

THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK.
6.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
7.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
8.

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.
9.

ALL EXISTING ROW SHOWN IS APPROXIMATE AND MAY NEED TO BE VERIFIED IN THE FIELD. ANY ROW CONFLICTS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER. ALL PROPOSED WORK SHALL TAKE PLACE WITHIN EXISTING ROW.
10.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE OCCURRED. THIS WORK SHALL BE AT THE CONTRACTOR’S EXPENSE.
11.

THE CONTRACTOR SHALL TAKE CARE TO PROTECT ALL SIGNS ALONG THE ROUTE OF CONSTRUCTION. SIGNS IN CONFLICT WITH PROPOSED WORK SHALL BE RELOCATED, IF APPROVED BY ENGINEER. ALL LABOR NECESSARY TO COMPLY WITH THE RELOCATION OF SIGNS SHALL BE INCLUDED IN THE CONTRACT WITHOUT EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR ACCORDING TO ARTICLE 107.25, UNLESS MARKED ON PLANS.
12.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION.
13.

LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
14.

THE EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
15.

POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEMS.
16.

REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT PAY ITEMS.
17.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN THE REQUIREMENT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
18.

THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE CONDUIT PAY ITEMS.
19.

LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARMS OR POSTS THAT HAVE PEDESTRIAN EQUIPMENT SHALLL BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
20.

MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE APPLICABLE HIGHWAY AND DISTRICT STANDARDS.
21.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL CONSTRUCTION ACTIVITIES.
22.

THE CONTRACTOR SHALL MARK THE RECORD DRAWINGS TO REFLECT ANY CHANGES TO THE PLANS. THE RECORD DRAWINGS REQUIREMENTS ARE IDENTIFIED IN SECTION 801.16 OF THE STANDARD SPECIFICATIONS.
23.

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.
24.

MAINLINE AND SIDE ROAD “ROAD CONSTRUCTION AHEAD” SIGNS SHALL REMAIN INSTALLED AT LOCATIONS WHERE ROADWAY HAZARDS WITHIN THE WORK ZONE WILL REMAIN OVERNIGHT.



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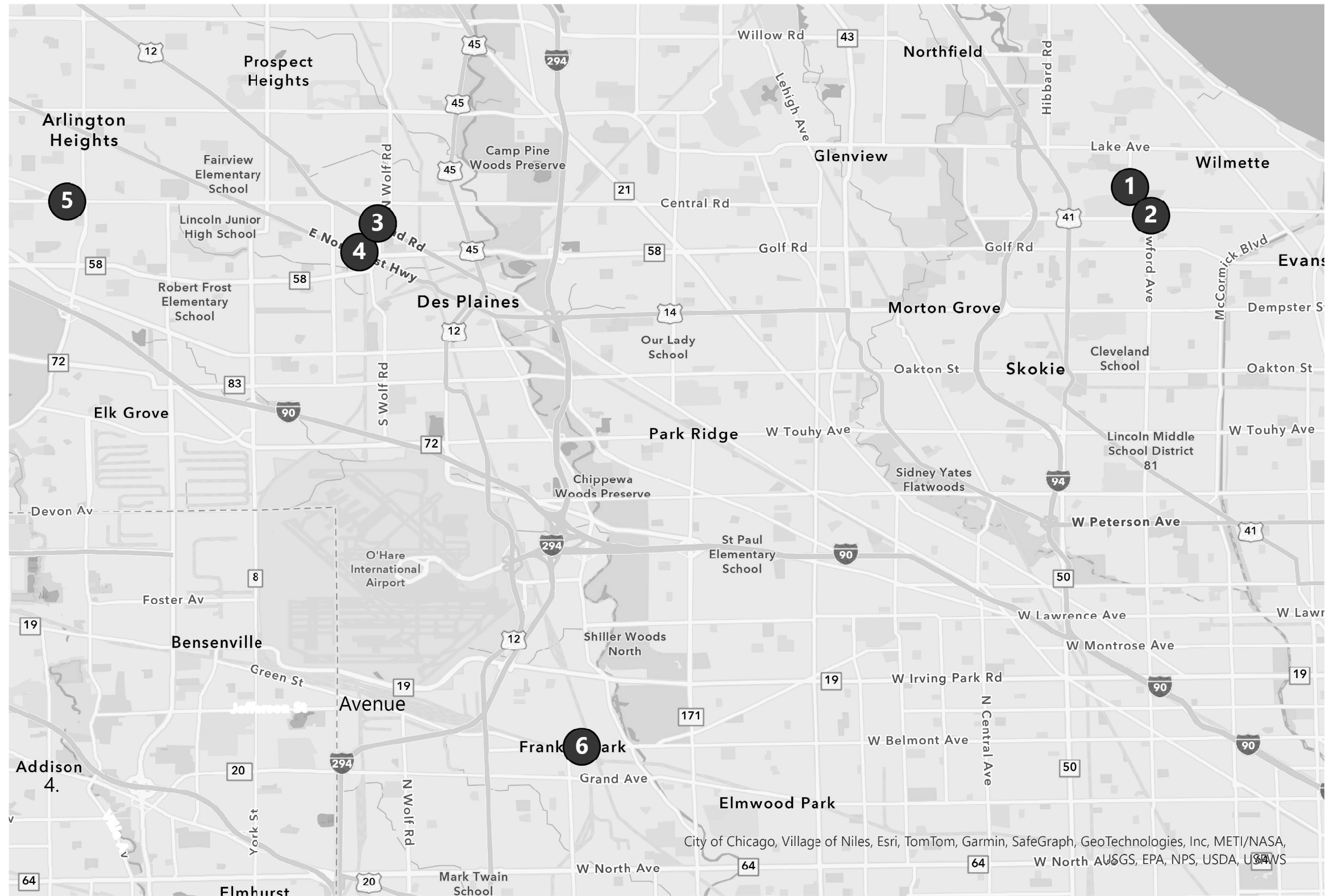
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	2
			CONTRACT NO. 62W57	
		ILLINOIS	FED. AID PROJECT	

LOCATION MAP



SUMMARY OF LOCATIONS

NO.	TS NO.	INTERSECTION	MUNICIPALITY
1	4950	CRAWFORD AVENUE AND WILMETTE AVENUE	WILMETTE
2	4920	CRAWFORD AVENUE AND HARRISON STREET/OLD ORCHARD ROAD	EVANSTON/SKOKIE
3	425	US ROUTE 12 (RAND ROAD) AND WOLF ROAD	DES PLAINES
4	13080	US ROUTE 14 (NORTHWEST HIGHWAY) AND STATE STREET	DES PLAINES
5	12615	CENTRAL ROAD AND KIRCHOFF ROAD	ARLINGTON HEIGHTS
6	10965	BELMONT AVENUE AND EDGINTON STREET	FRANKLIN PARK



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PLOT DATE = 5/8/2025	DATE = 5/8/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	3
		CONTRACT NO. 62W57		
		ILLINOIS	FED. AID	PROJECT

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				CONSTRUCTION CODE												
				CRAWFORD AV AND WILMETTE AV		CRAWFORD AV AND HARRISON ST/ OLD ORCHARD RD	US ROUTE 12 AND WOLF RD	US RTE 14 AND STATE ST	US 12/WOLF US 14/STATE	CENTRAL RD AND KIRCHOFF RD		BELMONT AV AND EDGINTON ST				
				90% FED 7.5% STATE 2.5% WILMETTE	100% WILMETTE	90% FED 5% STATE 3.75% EVANSTON 1.25% SKOKIE	90% FED 7.5% STATE 2.5% DES PLAINES	90% FED 10% STATE	100% DES PLAINES	90% FED 10% STATE	100% ARLINGTON HEIGHTS	90% FED 5% STATE 5% FRANKLIN PARK	100% FRANKLIN PARK			
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS												
				0021												
				URBAN												
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	12				12									
25200110	SODDING, SALT TOLERANT	SQ YD	12				12									
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1392			822	570									
42400800	DETECTABLE WARNINGS	SQ FT	134			107	27									
44000300	CURB REMOVAL	FOOT	38				38									
44000600	SIDEWALK REMOVAL	SQ FT	1293			822	471									
44003100	MEDIAN REMOVAL	SQ FT	51				51									
44201694	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	17				17									
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3			2	1									
60260100	INLETS TO BE ADJUSTED	EACH	1				1									
60600605	CONCRETE CURB, TYPE B	FOOT	22				22									
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	7				7									
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	127	17		13	28	7		7		55				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	1		1	1	1		1		1				
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.17		0.17	0.16	0.16		0.17		0.17				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.17		0.17	0.16	0.16		0.17		0.17				
* SPECIALTY ITEM																
iteris	USER NAME = bfunck	DESIGNED - AM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - AM	REVISED -									VAR.		COOK	52	4
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				CONSTRUCTION CODE											
				CRAWFORD AV AND WILMETTE AV		CRAWFORD AV AND HARRISON ST/ OLD ORCHARD RD	US ROUTE 12 AND WOLF RD	US RTE 14 AND STATE ST	US 12/WOLF US 14/STATE	CENTRAL RD AND KIRCHOFF RD		BELMONT AV AND EDGINTON ST			
				90% FED 7.5% STATE 2.5% WILMETTE	100% WILMETTE	90% FED 5% STATE 3.75% EVANSTON 1.25% SKOKIE	90% FED 7.5% STATE 2.5% DES PLAINES	90% FED 10% STATE	100% DES PLAINES	90% FED 10% STATE	100% ARLINGTON HEIGHTS	90% FED 5% STATE 5% FRANKLIN PARK	100% FRANKLIN PARK		
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS											
				0021											
				URBAN											
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	12	2		2	2	2		2		2			
67100100	MOBILIZATION	L SUM	1	0.17		0.17	0.17	0.17		0.16		0.16			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.17		0.17	0.17	0.17		0.16		0.16			
* 72000100	SIGN PANEL - TYPE 1	SQ FT	109				17	12		24		56			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.17		0.17	0.17	0.17		0.16		0.16			
* 72000200	SIGN PANEL - TYPE 2	SQ FT	179	78		60	23	18							
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.17		0.17	0.17	0.17		0.16		0.16			
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	185	74		12	47			36		16			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.17		0.17	0.17	0.17		0.16		0.16			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36.4				36.4								
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	0.17		0.17	0.17	0.17		0.16		0.16			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	450				450								
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50				50								
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	573				573								
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1192	42		95	85	25		13		932			
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	517	93		106	126	17		129		46			
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1600	217		227	388	204		175		389			
81400100	HANDHOLE	EACH	8	1								7			
81400200	HEAVY-DUTY HANDHOLE	EACH	3				1					2			
81400300	DOUBLE HANDHOLE	EACH	2									2			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5	1		1	1	1		1					
* SPECIALTY ITEM															
<div>iteris</div>		USER NAME = bfunck	DESIGNED - AM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - AM	REVISED -							VAR.		COOK	52	5
		PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -							CONTRACT NO. 62W57				
		PLOT DATE = 5/8/2025	DATE - 5/8/2025	REVISED -							ILLINOIS FED. AID PROJECT				
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				CONSTRUCTION CODE									
				CRAWFORD AV AND WILMETTE AV		CRAWFORD AV AND HARRISON ST/ OLD ORCHARD RD	US ROUTE 12 AND WOLF RD	US RTE 14 AND STATE ST	US 12/WOLF US 14/STATE	CENTRAL RD AND KIRCHOFF RD		BELMONT AV AND EDGINTON ST	
				90% FED 7.5% STATE 2.5% WILMETTE	100% WILMETTE	90% FED 5% STATE 3.75% WILMETTE 1.25% SKOKIE	90% FED 7.5% STATE 2.5% DES PLAINES	90% FED 10% STATE	100% DES PLAINES	90% FED 10% STATE	100% ARLINGTON HEIGHTS	90% FED 5% STATE 5% FRANKLIN PARK	100% FRANKLIN PARK
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS									
				0021									
				URBAN									
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1									
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3574	383		954	1017			199		1021	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6512	1453		1405	1387	460		543		1264	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	12410	2363		1998	2273	2427		1522		1827	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	4066			262	2630	305				869	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4199	1652			256					2291	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	396	46		125	40	55		40		90	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	3072	514		516	697	305		472		568	
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	20	4		4	4	2		3		3	
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	3			1						2	
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1			1							
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	3	1		1				1			
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2	1				1					
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2	1								1	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1									1	
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1			1							



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	6
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

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				CONSTRUCTION CODE									
				CRAWFORD AV AND WILMETTE AV		CRAWFORD AV AND HARRISON ST/ OLD ORCHARD RD	US ROUTE 12 AND WOLF RD	US RTE 14 AND STATE ST	US 12/WOLF US 14/STATE	CENTRAL RD AND KIRCHOFF RD		BELMONT AV AND EDGINTON ST	
				90% FED 7.5% STATE 2.5% WILMETTE	100% WILMETTE	90% FED 5% STATE 3.75% WILMETTE 1.25% SKOKIE	90% FED 7.5% STATE 2.5% DES PLAINES	90% FED 10% STATE	100% DES PLAINES	90% FED 10% STATE	100% ARLINGTON HEIGHTS	90% FED 5% STATE 5% FRANKLIN PARK	100% FRANKLIN PARK
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS									
				0021									
				URBAN									
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1	1									
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2				2						
87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1				1						
87700330	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1				1						
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	100	20		20	20	8		16		16	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4									4	
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	132	41		34		14		25		20	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	105	13		13	45	12				22	
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21				21						
87900200	DRILL EXISTING HANDHOLE	EACH	62	15		11	12	9		14		1	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	41	8		8	8	5		5		7	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	33	8		7	2	6		5		5	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	11			1	6	1				3	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	11			1	6	1				3	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10							2		8	
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	53	8		9	14	6		6		10	



USER NAME = bfunck
PLOT SCALE = 100,0000 ' / in.
PLOT DATE = 5/8/2025

DESIGNED - AM
DRAWN - AM
CHECKED - BF
DATE - 5/8/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	7
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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				CONSTRUCTION CODE									
				CRAWFORD AV AND WILMETTE AV		CRAWFORD AV AND HARRISON ST/ OLD ORCHARD RD	US ROUTE 12 AND WOLF RD	US RTE 14 AND STATE ST	US 12/WOLF US 14/STATE	CENTRAL RD AND KIRCHOFF RD		BELMONT AV AND EDGINTON ST	
				90% FED 7.5% STATE 2.5% WILMETTE	100% WILMETTE	90% FED 5% STATE 3.75% WILMETTE 1.25% SKOKIE	90% FED 7.5% STATE 2.5% DES PLAINES	90% FED 10% STATE	100% DES PLAINES	90% FED 10% STATE	100% ARLINGTON HEIGHTS	90% FED 5% STATE 5% FRANKLIN PARK	100% FRANKLIN PARK
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS									
				0021									
				URBAN									
88500100	INDUCTIVE LOOP DETECTOR	EACH	20	6			1					13	
88600100	DETECTOR LOOP, TYPE I	FOOT	1417	452			49					916	
88700200	LIGHT DETECTOR	EACH	3			3							
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1									1	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1							
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	22	8		8	6						
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	3	3									
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	10		2				4		2		2
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	5		1				2		1		1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	15597	3845		2361	4619	2098		986		1688	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1		1	1	1		1		1	
89502376	REBUILD EXISTING HANDHOLE	EACH	2			1	1						
89502380	REMOVE EXISTING HANDHOLE	EACH	8	1			1					6	
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1									1	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	37	10		8	8	3		3		5	
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2288		406				788		330		382
X0325922	CELLULAR MODEM	EACH	1			1							
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	6	1		1	1	1		1		1	



USER NAME = bfunck	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 5/8/2025	DATE - 5/8/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	8
		CONTRACT NO. 62W57		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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				CONSTRUCTION CODE									
				CRAWFORD AV AND WILMETTE AV		CRAWFORD AV AND HARRISON ST/ OLD ORCHARD RD	US ROUTE 12 AND WOLF RD	US RTE 14 AND STATE ST	US 12/WOLF US 14/STATE	CENTRAL RD AND KIRCHOFF RD		BELMONT AV AND EDGINTON ST	
				90% FED 7.5% STATE 2.5% WILMETTE	100% WILMETTE	90% FED 5% STATE 3.75% WILMETTE 1.25% SKOKIE	90% FED 7.5% STATE 2.5% DES PLAINES	90% FED 10% STATE	100% DES PLAINES	90% FED 10% STATE	100% ARLINGTON HEIGHTS	90% FED 5% STATE 5% FRANKLIN PARK	100% FRANKLIN PARK
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS									
				0021									
				URBAN									
X1400216	LAYER II (DATALINK) SWITCH	EACH	1			1							
X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1							1			
X1400454	LED SIGNAL FACE VISOR HEATER	EACH	5							5			
X4400223	CURB REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	256			68	94	94					
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	66			66							
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	2		2	2	2		2		2	
X8140115	HANDHOLE TO BE ADJUSTED	EACH	2				1	1					
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	565.4	102.8		102.8	102.8	77.1		77.1		102.8	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2				1	1					
X8570232	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1									1	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	2	1								1	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	35			8	8	8		3		8	
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4							4			
X8809005	LED SIGNAL FACE, LENS COVER	EACH	100	16		17	22	22		5		18	
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	6	1		1	1	1		1		1	
87702262	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 28 FT.	EACH	1							1			
87702406	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 36 FT.	EACH	1					1					
Z0076600	TRAINEES	HOURL	500	500									
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURL	500	500									



USER NAME = bfunck	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 5/8/2025	DATE - 5/8/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	9
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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LOCATION	HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
	MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
	PATCHING		
WOLF ROAD AT RAND ROAD (US ROUTE 12)	CLASS D PATCHES [HMA SURFACE COURSE IL-9.5 MIX D N70; 4 INCH (IN 2 LIFTS)]	4.0% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)			

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 5/14/2025	DATE - 5/14/2025	REVISED -

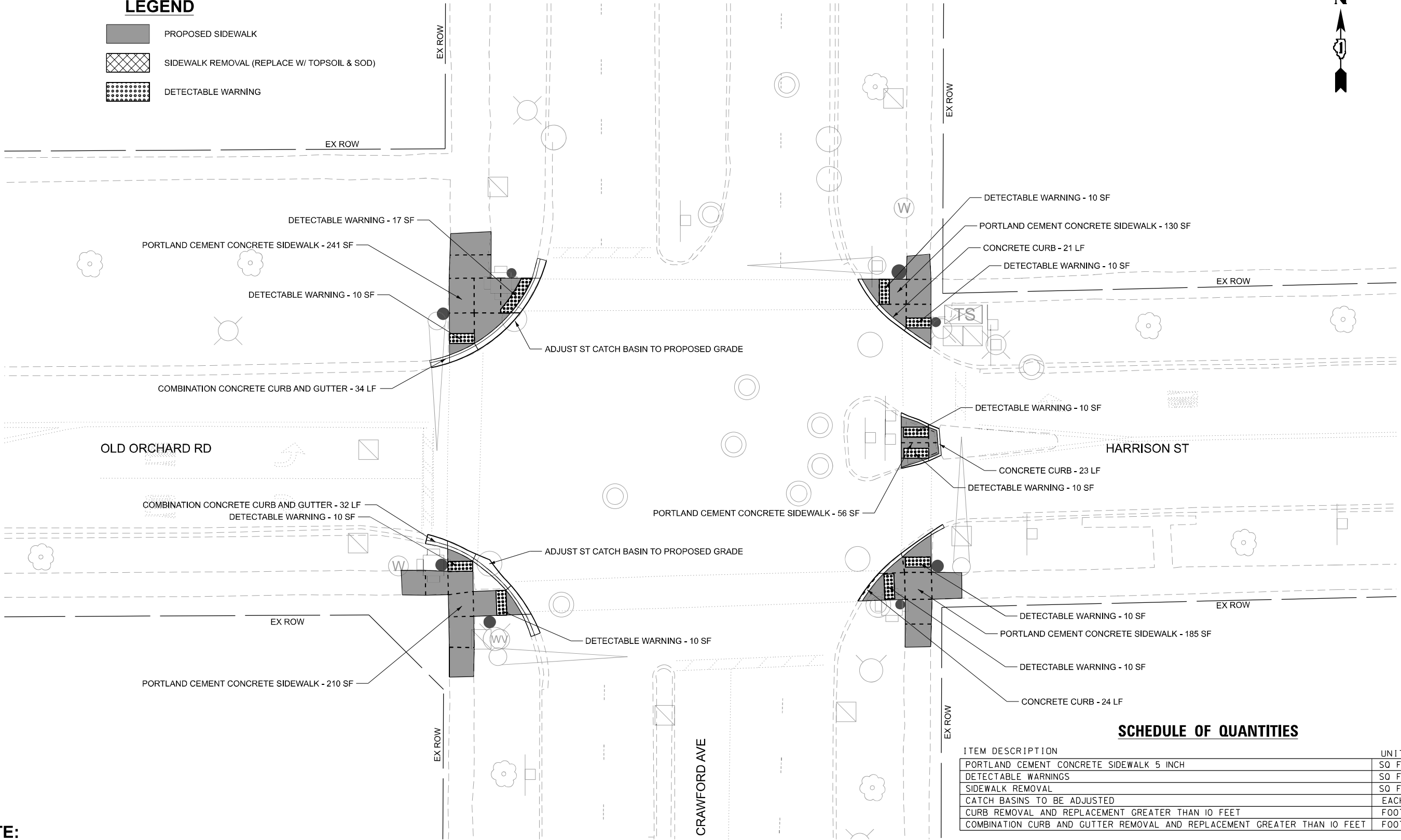
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	10
		CONTRACT NO. 62W57		
		ILLINOIS	FED. AID PROJECT	

LEGEND

- PROPOSED SIDEWALK
- SIDEWALK REMOVAL (REPLACE W/ TOPSOIL & SOD)
- DETECTABLE WARNING



NOTE:

PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	822
DETECTABLE WARNINGS	SQ FT	107
SIDEWALK REMOVAL	SQ FT	822
CATCH BASINS TO BE ADJUSTED	EACH	2
CURB REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	68
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	66



TS 4920



USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - BF	REVISED -
PLOT DATE = 4/7/2025	DATE - 4/7/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

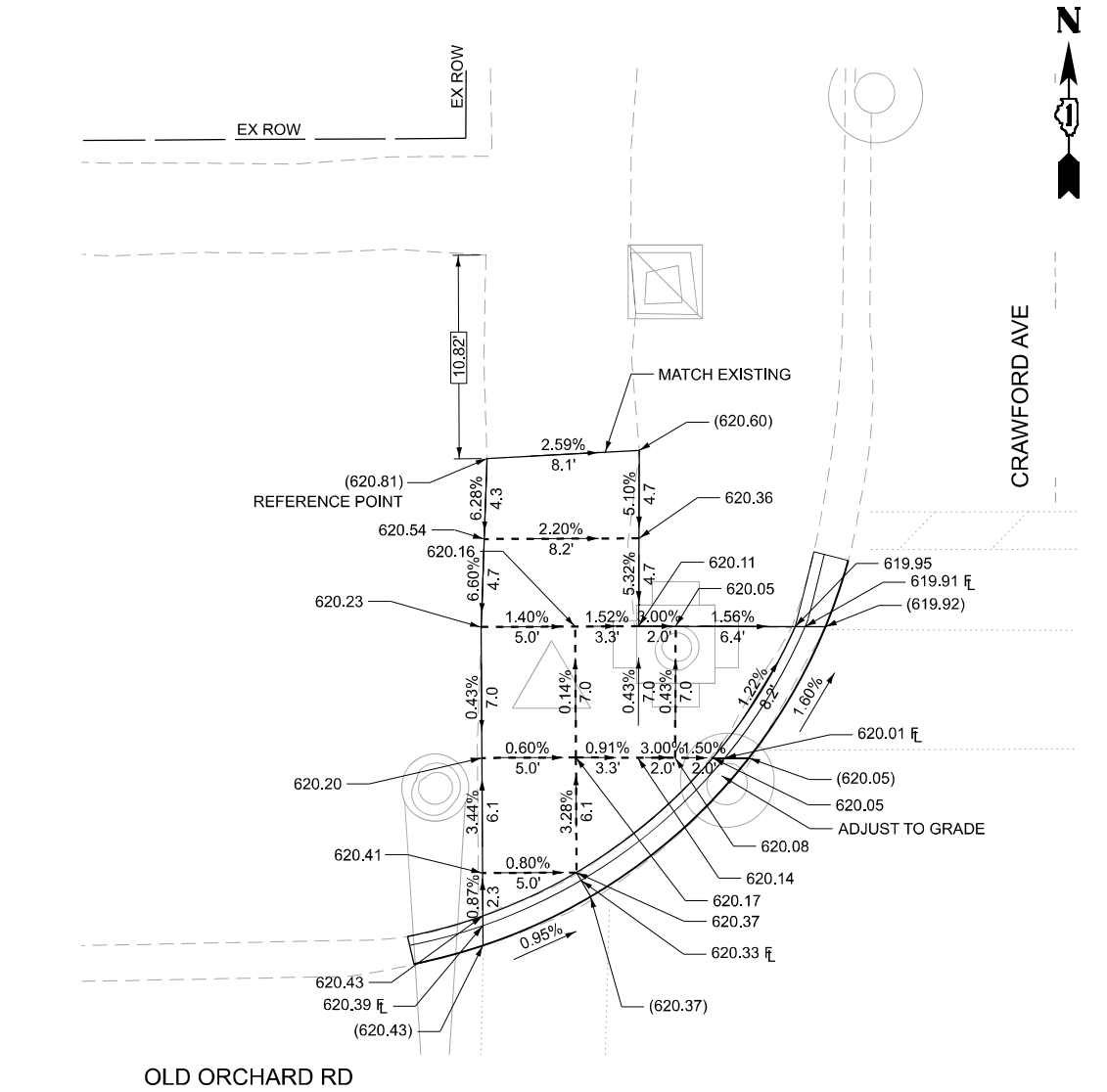
ADA RAMP GENERAL PLAN
CRAWFORD AVENUE AND HARRISON STREET / OLD ORCHARD ROAD

SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	11
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

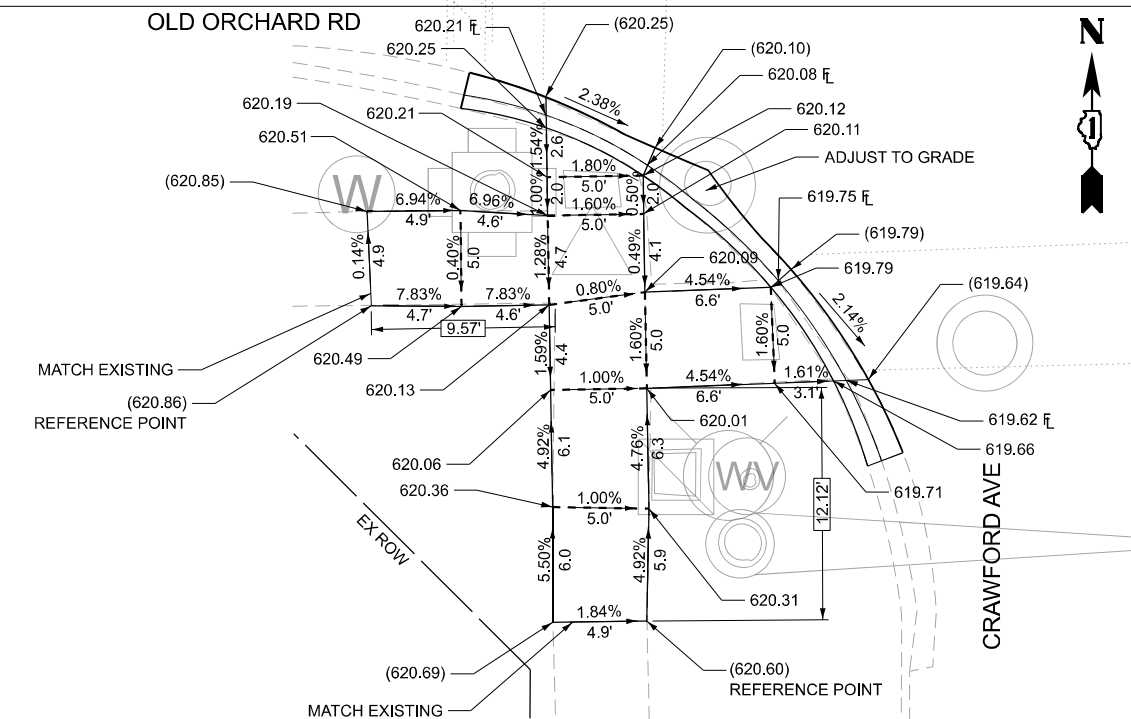
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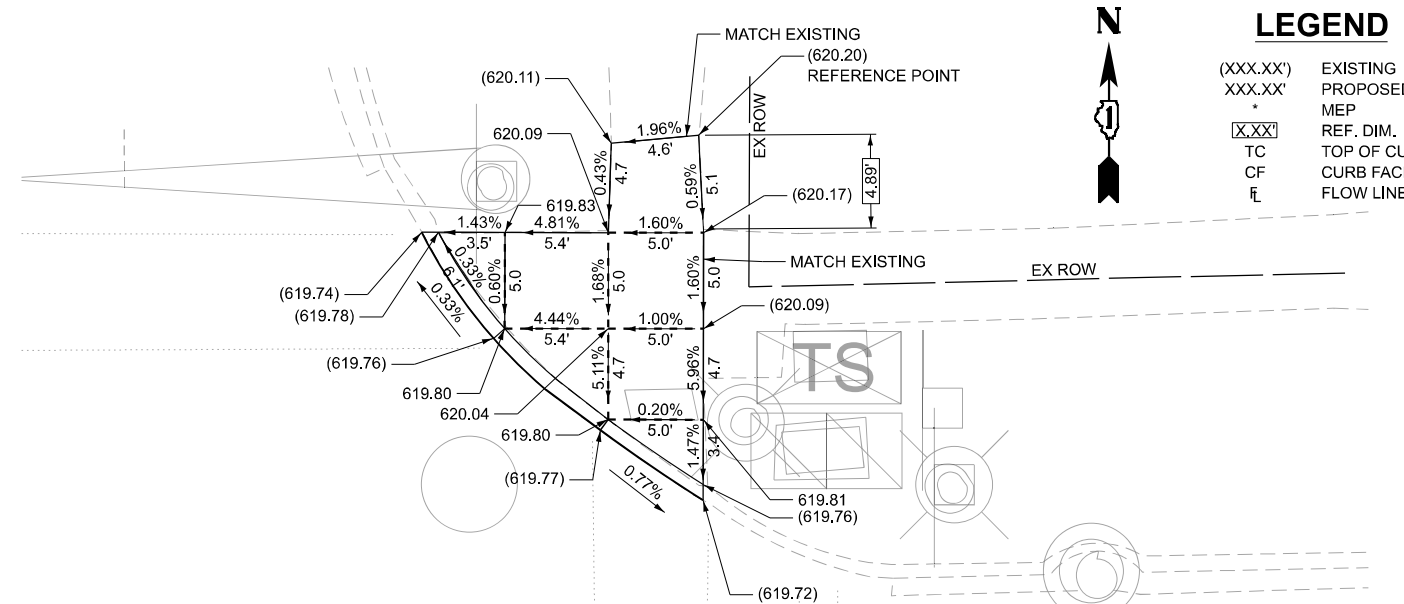
LEGEND

(XXX.XX') EXISTING
XXX.XX' PROPOSED
* MEP
X.XX' REF. DIM.
TC TOP OF CURB
CF CURB FACE
FL FLOW LINE



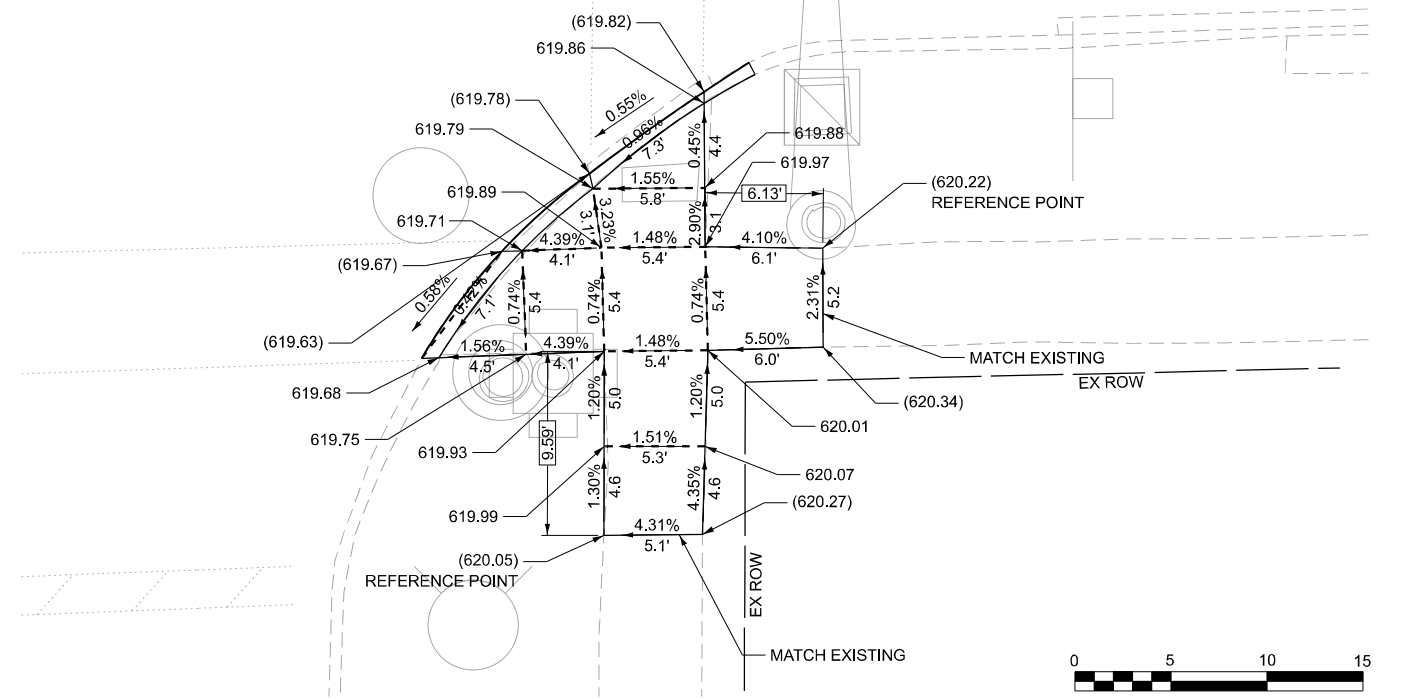
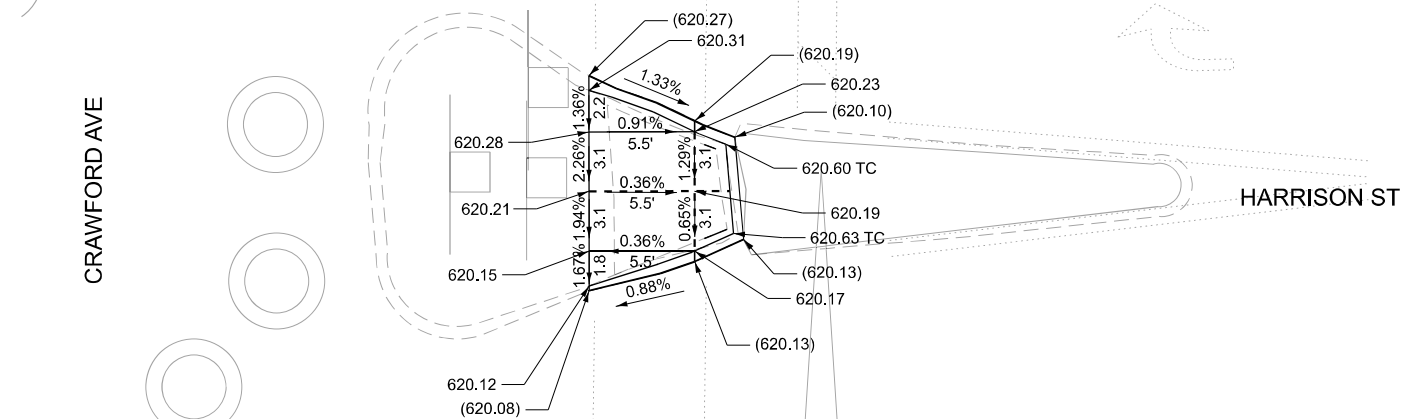
LEGEND

(XXX.XX') EXISTING
XXX.XX' PROPOSED
* MEP
X.XX' REF. DIM.
TC TOP OF CURB
CF CURB FACE
FL FLOW LINE



LEGEND

(XXX.XX') EXISTING
XXX.XX' PROPOSED
* MEP
X.XX' REF. DIM.
TC TOP OF CURB
CF CURB FACE
FL FLOW LINE



TS 4920

iteris

USER NAME = amaravillas	DESIGNED - AM	REVISED -
DRAWN - AM	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - BF	REVISED -
PLOT DATE = 2/27/2025	DATE - 2/27/2025	REVISED -

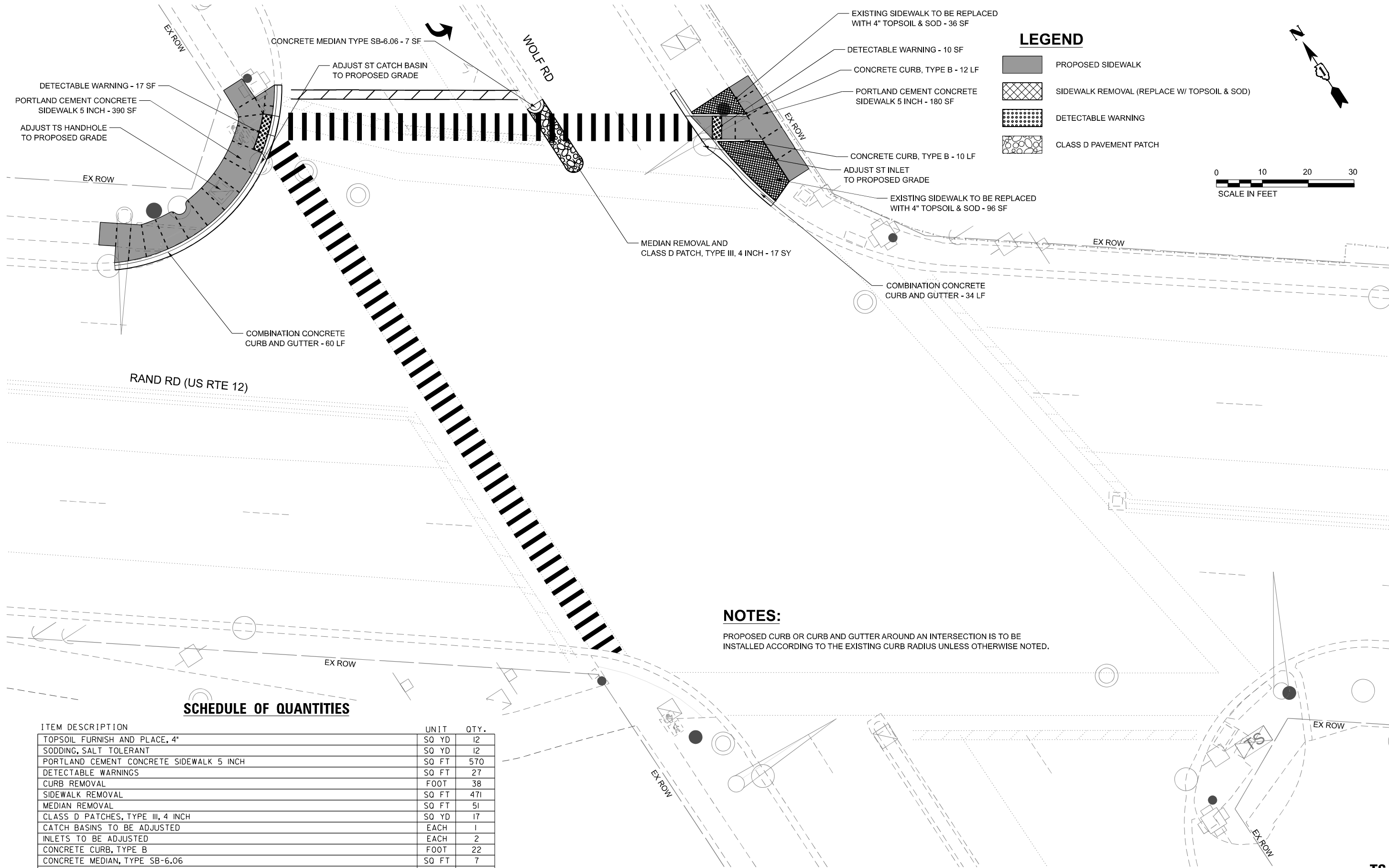
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA DETAILS
CRAWFORD AVENUE AND HARRISON STREET / OLD ORCHARD ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	12
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

MODEL: ADA-01
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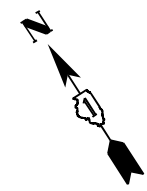
LEGEND

PROPOSED SIDEWALK

SIDEWALK REMOVAL (REPLACE W/ TOPSOIL & SOD)

DETECTABLE WARNING

CLASS D PAVEMENT PATCH



NOTES:
PROPOSED CURB OR CURB AND GUTTER AROUND AN INTERSECTION IS TO BE INSTALLED ACCORDING TO THE EXISTING CURB RADIUS UNLESS OTHERWISE NOTED.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	12
SODDING, SALT TOLERANT	SQ YD	12
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	570
DETECTABLE WARNINGS	SQ FT	27
CURB REMOVAL	FOOT	38
SIDEWALK REMOVAL	SQ FT	471
MEDIAN REMOVAL	SQ FT	51
CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	17
CATCH BASINS TO BE ADJUSTED	EACH	1
INLETS TO BE ADJUSTED	EACH	2
CONCRETE CURB, TYPE B	FOOT	22
CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	7
COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	94

TS 425
ECON 201



USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - BF	REVISED -
PLOT DATE = 5/12/2025	DATE - 5/12/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP GENERAL PLAN
US ROUTE 12 (RAND ROAD) AND WOLF ROAD

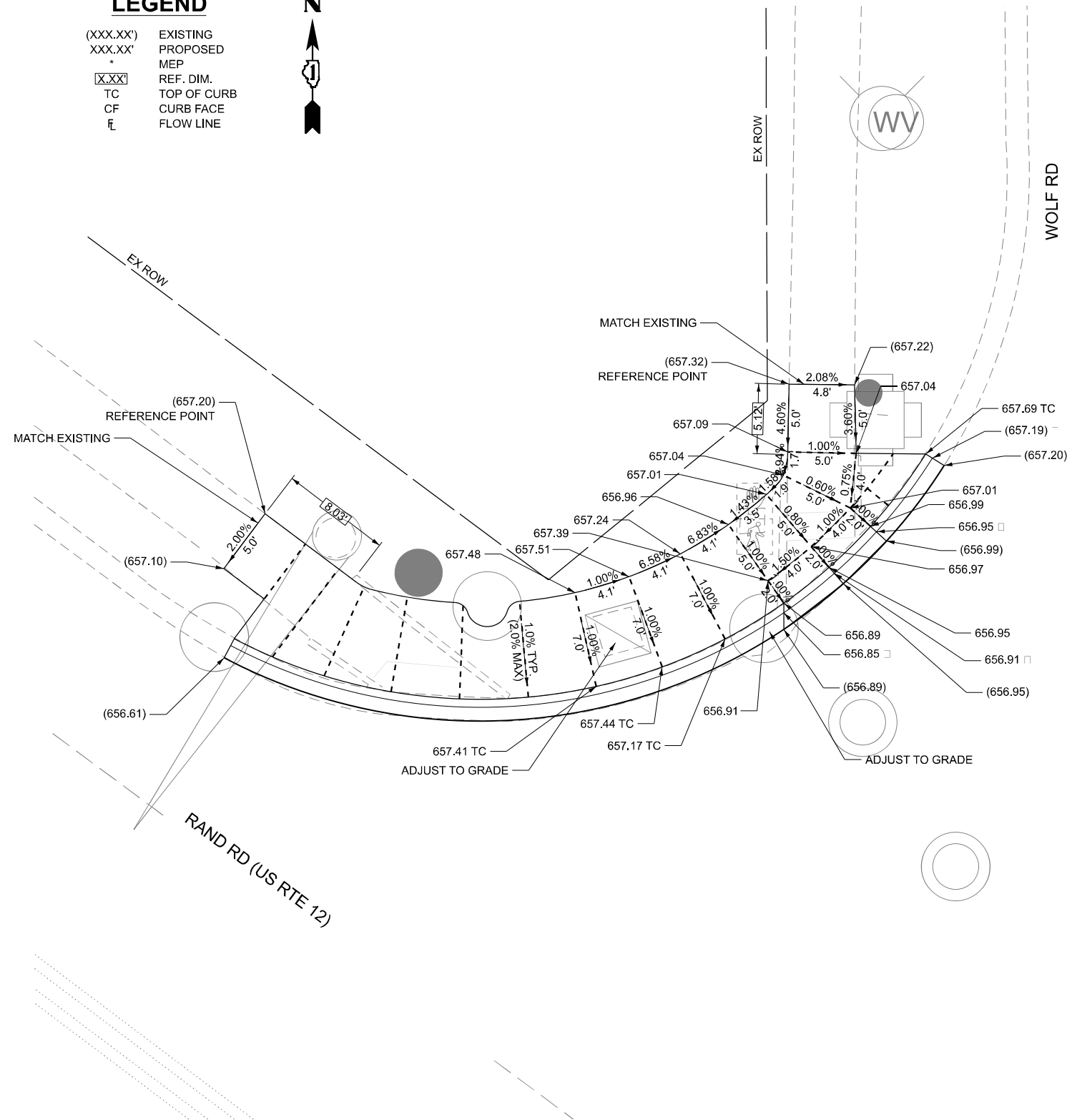
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	13
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

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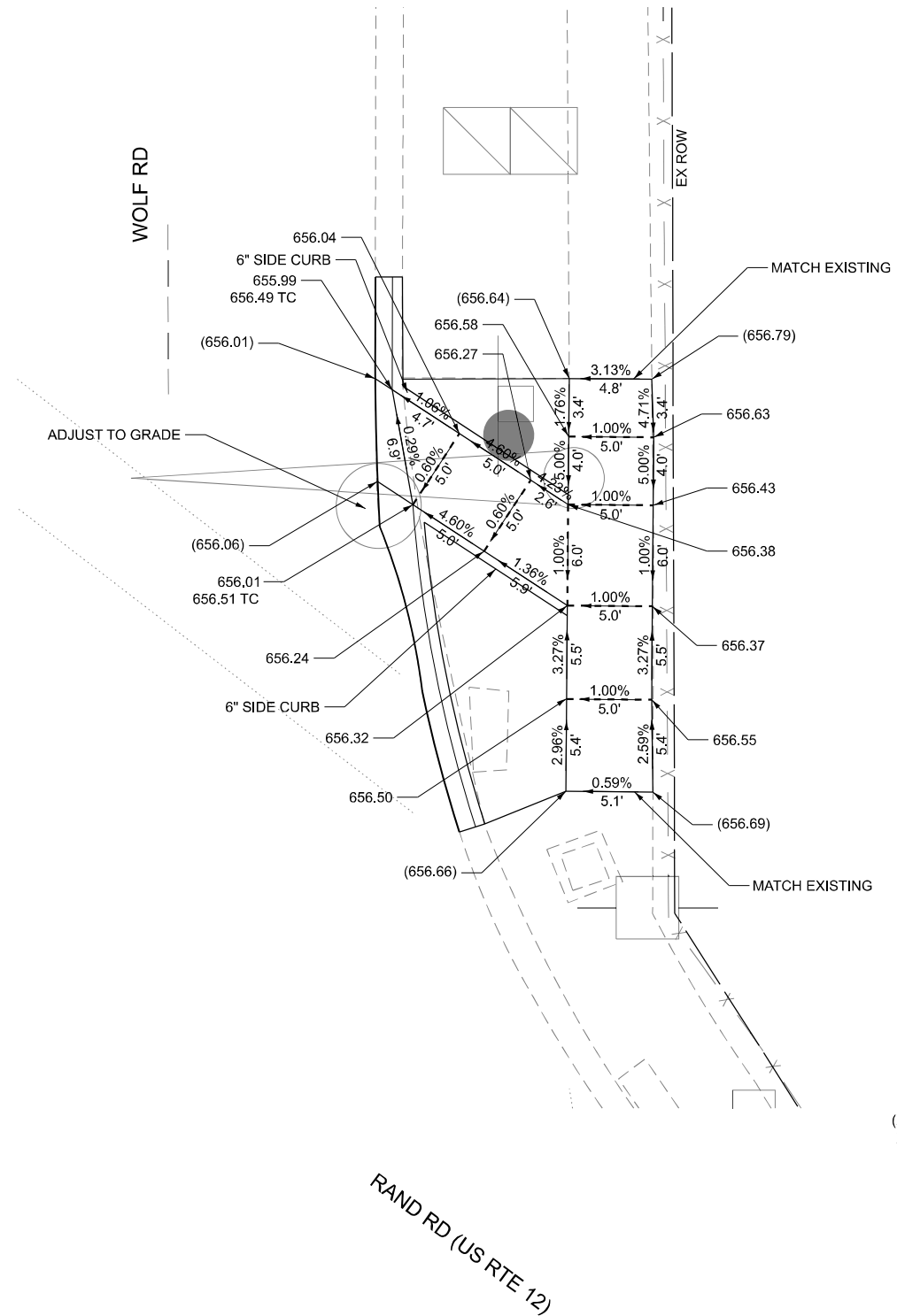
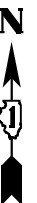
LEGEND


(XXX.XX')	EXISTING
XXX.XX'	PROPOSED
*	MEP
X.XX'	REF. DIM.
TC	TOP OF CURB
CF	CURB FACE
FL	FLOW LINE



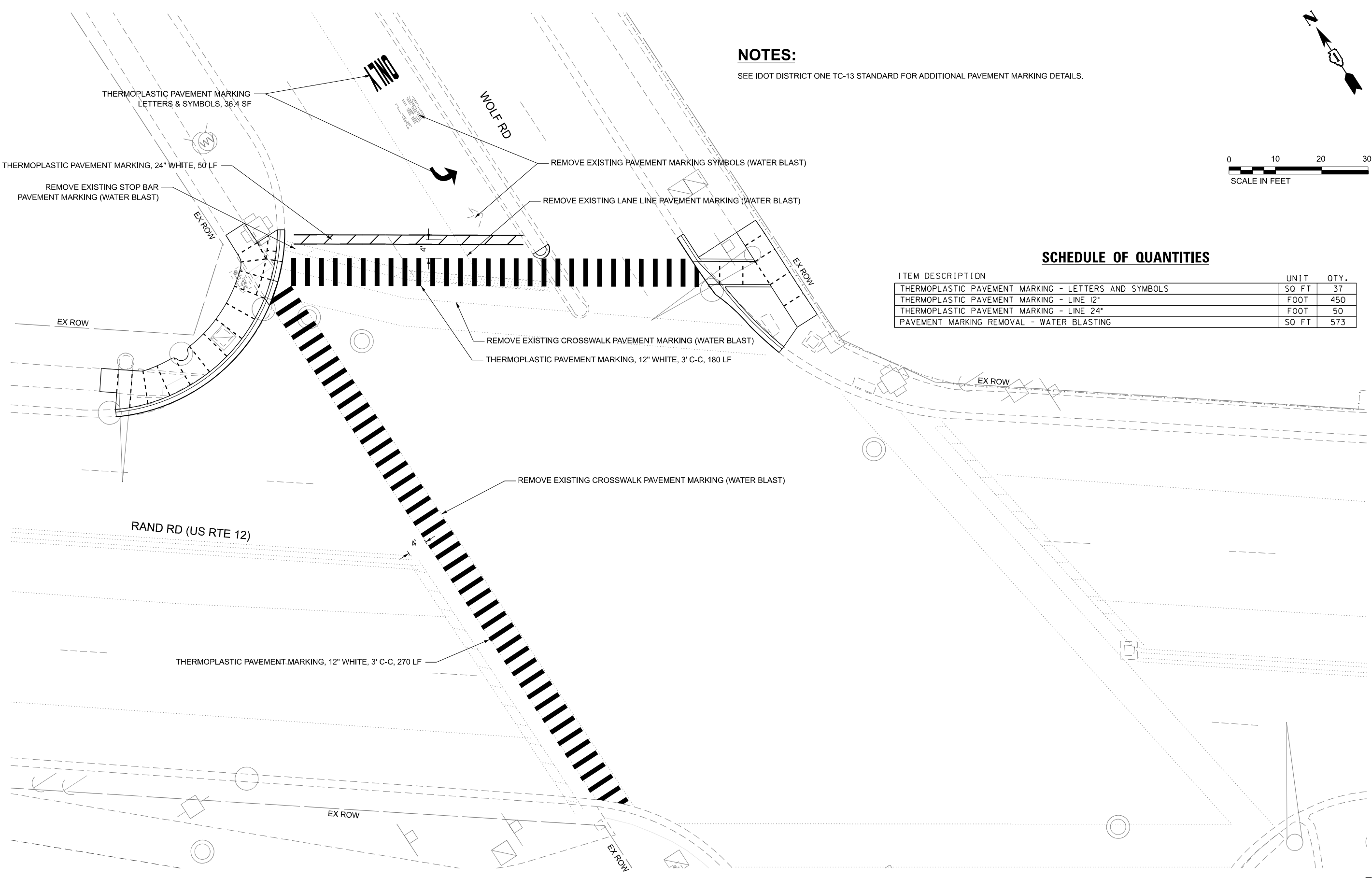
LEGEND

(XXX.XX')	EXISTING
XXX.XX'	PROPOSED
*	MEP
X.XX'	REF. DIM.
TC	TOP OF CURB
CF	CURB FACE
FL	FLOW LINE

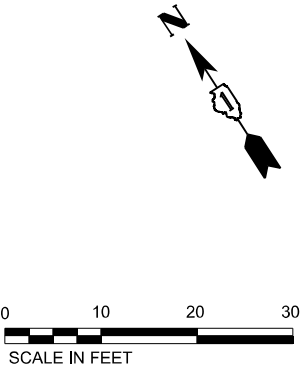
TS 425
ECON 201

	USER NAME = amavillas	DESIGNED - AM	REVISED -	<div>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</div>	<div>ADA DETAILS US ROUTE 12 (RAND ROAD) AND WOLF ROAD</div>					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$\$\$	CHECKED - BF	REVISED -							VAR.		COOK	52	14
	PLOT DATE = 2/27/2025	DATE - 2/27/2025	REVISED -		CONTRACT NO. 62W57									
	SCALE: 1" = 5'				SHEET	OF	SHEETS	STA.	TO STA.					
									ILLINOIS FED. AID PROJECT					

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NOTES:
SEE IDOT DISTRICT ONE TC-13 STANDARD FOR ADDITIONAL PAVEMENT MARKING DETAILS.



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	37
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	450
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50
PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	573

USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - BF	REVISED -
PLOT DATE = 2/27/2025	DATE - 2/27/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
US ROUTE 12 (RAND ROAD) AND WOLF ROAD





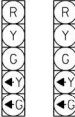
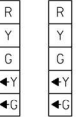




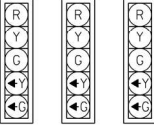
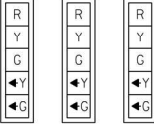





























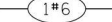





















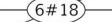
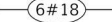


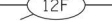
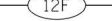


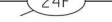








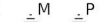








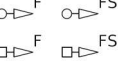
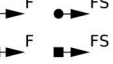










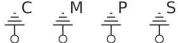
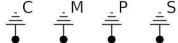




























SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	15
CONTRACT NO. 62W57				
ILLINOIS		FED. AID PROJECT		

TS 425
ECON 201

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	 P	 P
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	 P RB	 P RB
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 G GM	 G GM	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		 BM	SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP			
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 F FS F FS	 F FS F FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 APS	 APS	DETECTOR LOOP, TYPE I			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	 C M P S	 C M P S
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

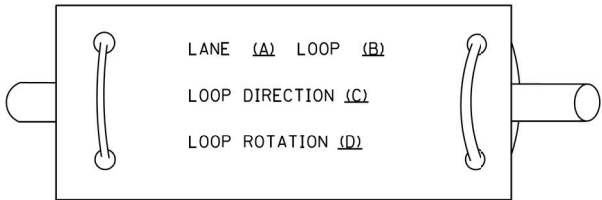
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	16
TS-05		CONTRACT NO. 62W57		
		ILLINOIS FED. AID PROJECT		

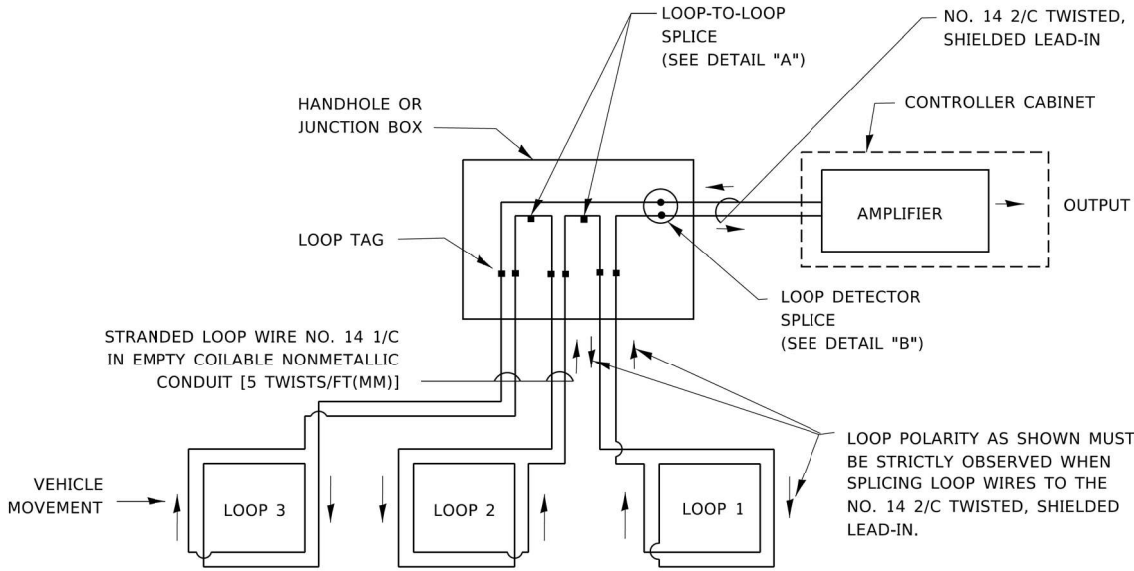
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 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.
- 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.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 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.
- 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.
- 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

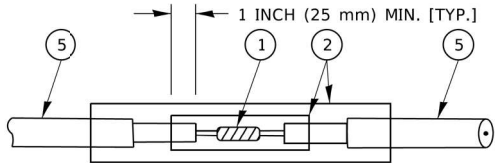


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

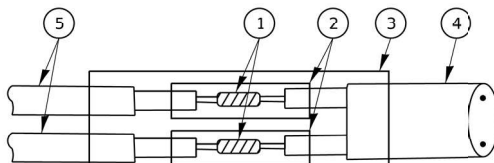


DETECTOR LOOP WIRING SCHEMATIC

- 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.

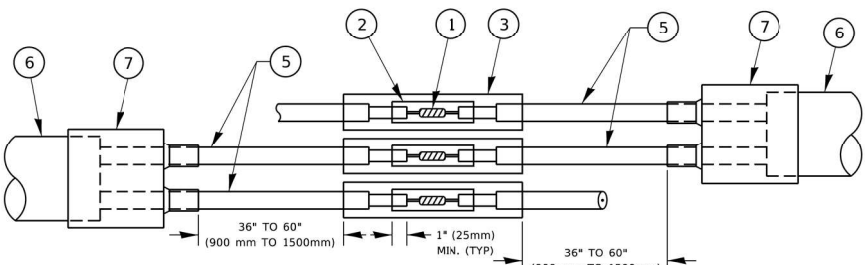


DETAIL "A"
LOOP-TO-LOOP SPLICE

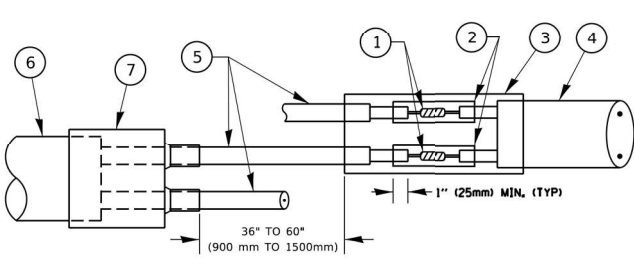


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

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

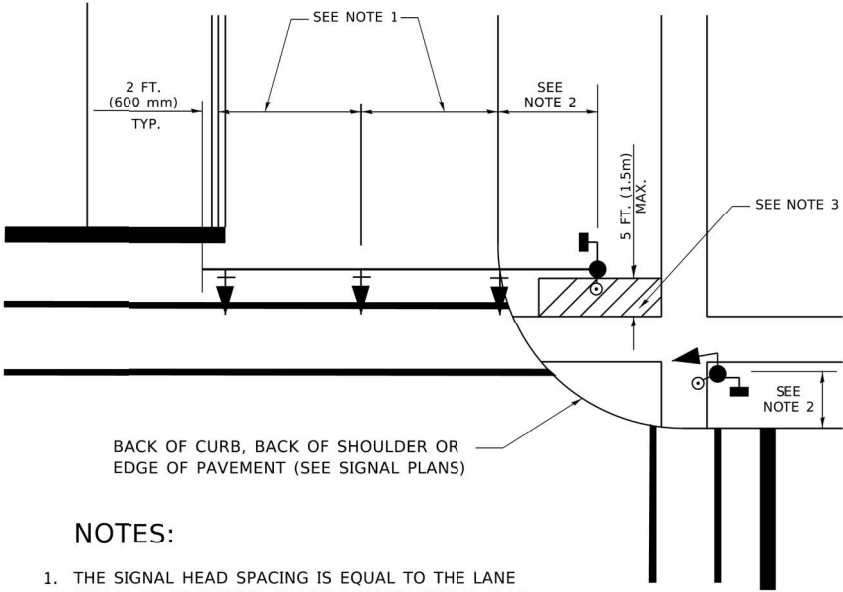
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	17
TS-05		CONTRACT NO. 62W57		
ILLINOIS		FED. AID PROJECT		

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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

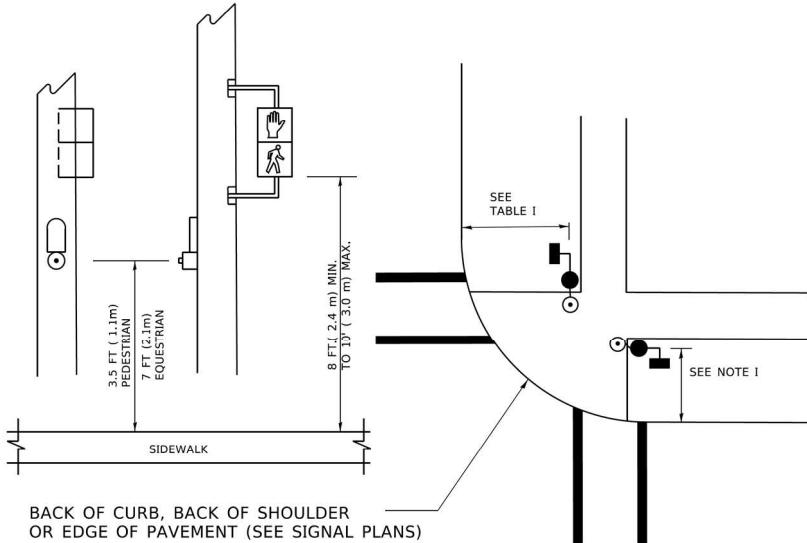
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
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 THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

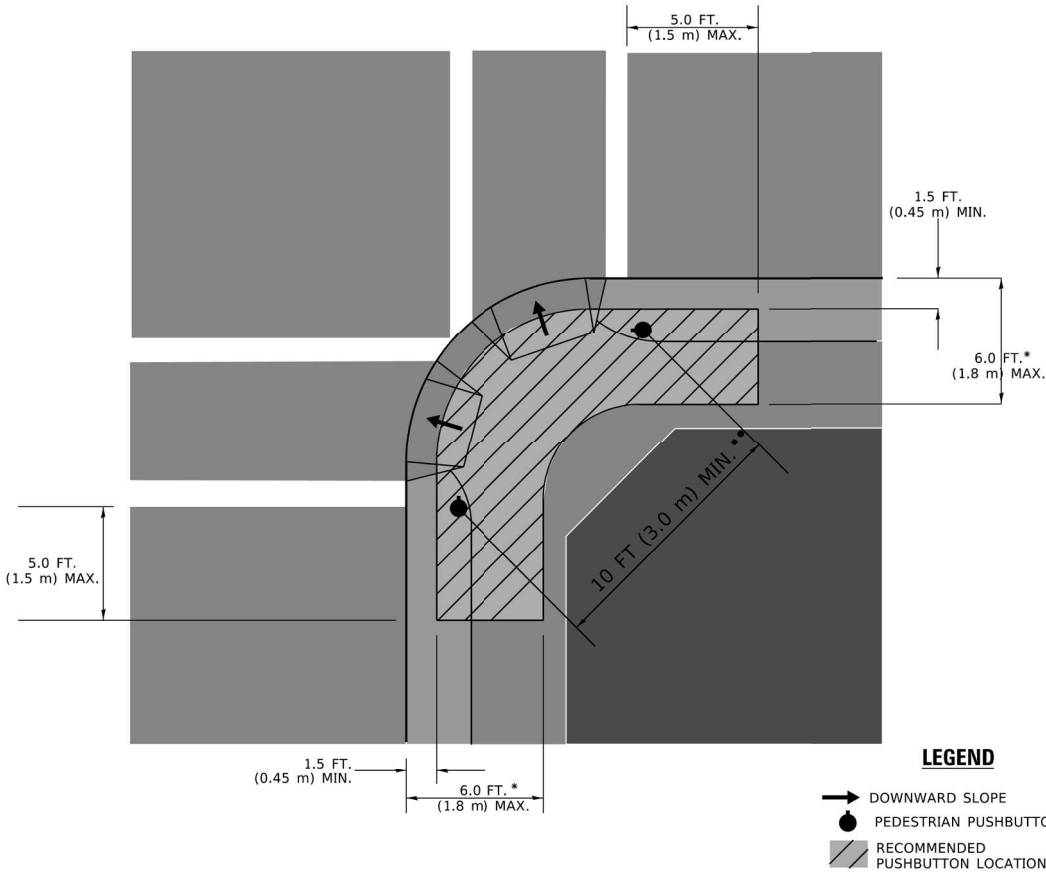
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE 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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PLOT DATE = 3/4/2019	DATE -

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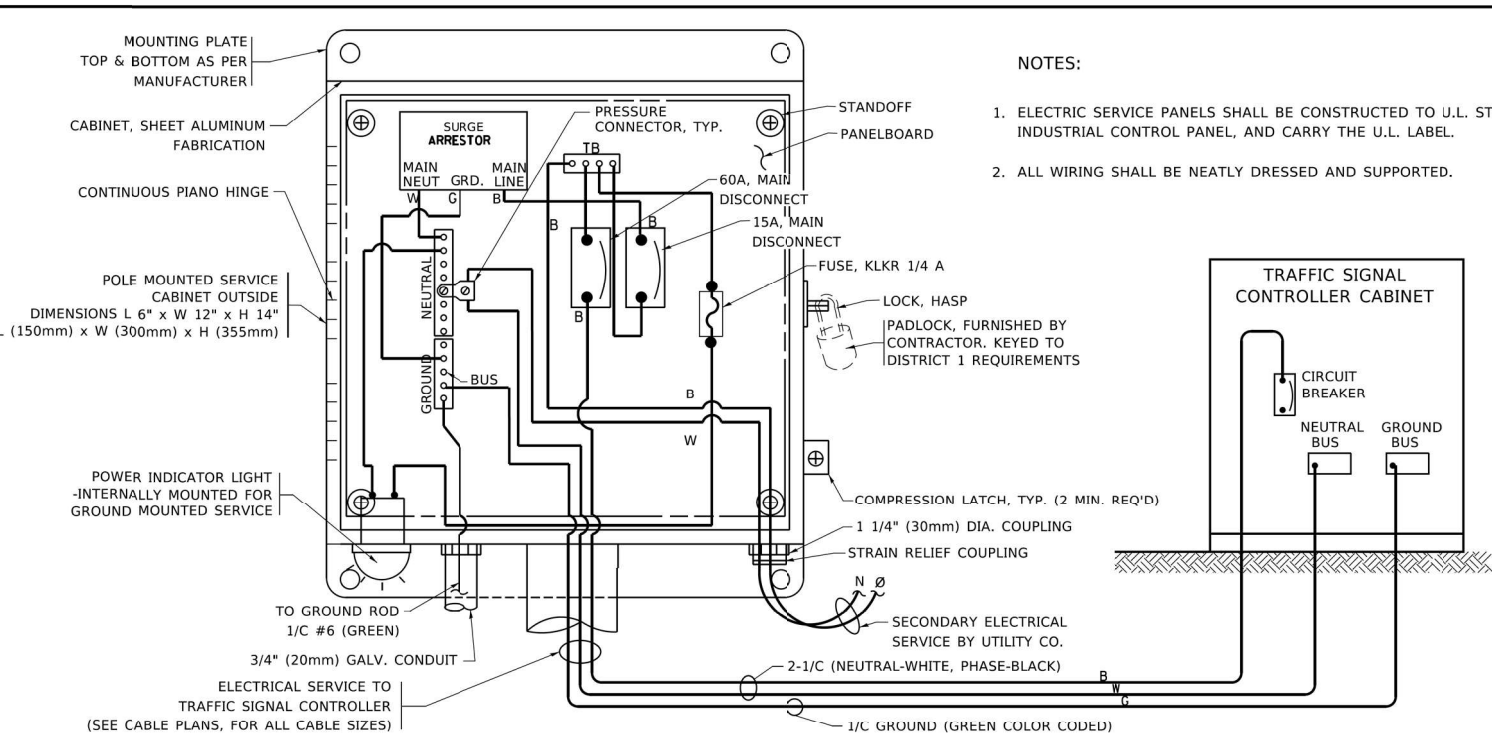
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

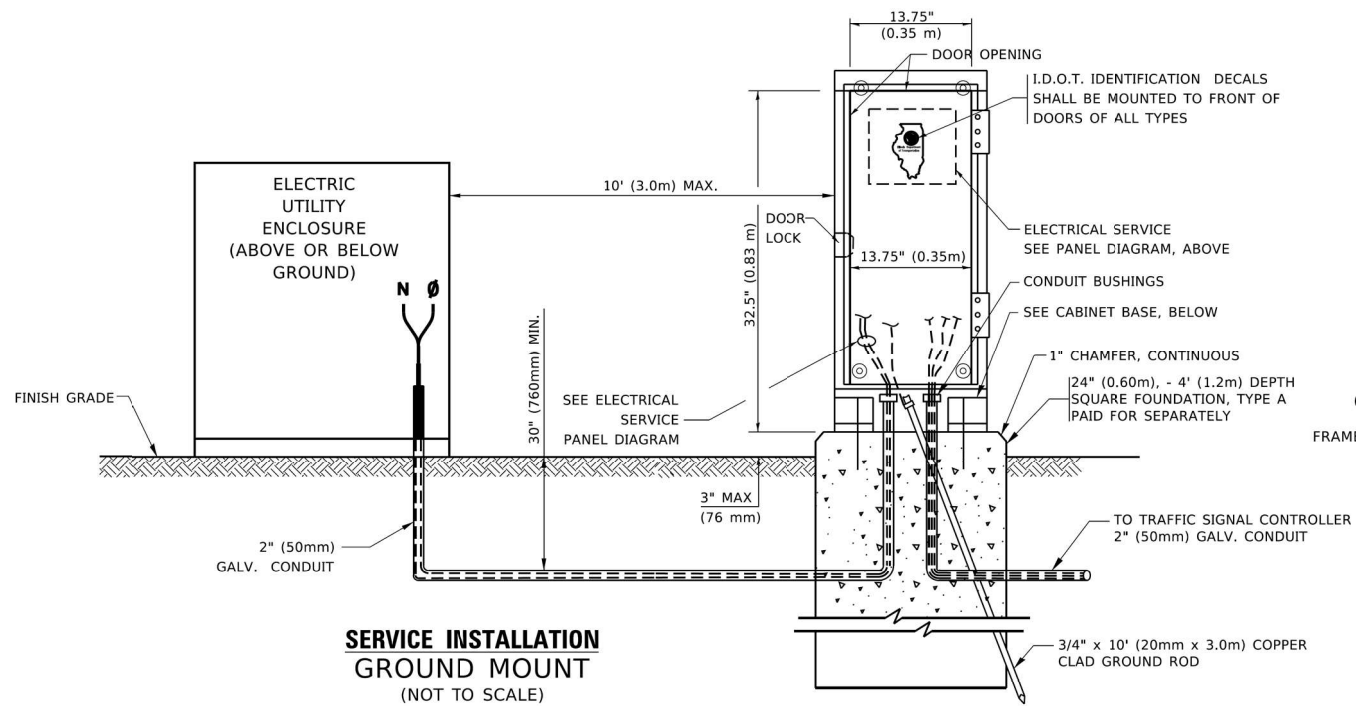
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	18
TS-05		CONTRACT NO. 62W57		
ILLINOIS		FED. AID PROJECT		

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ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)

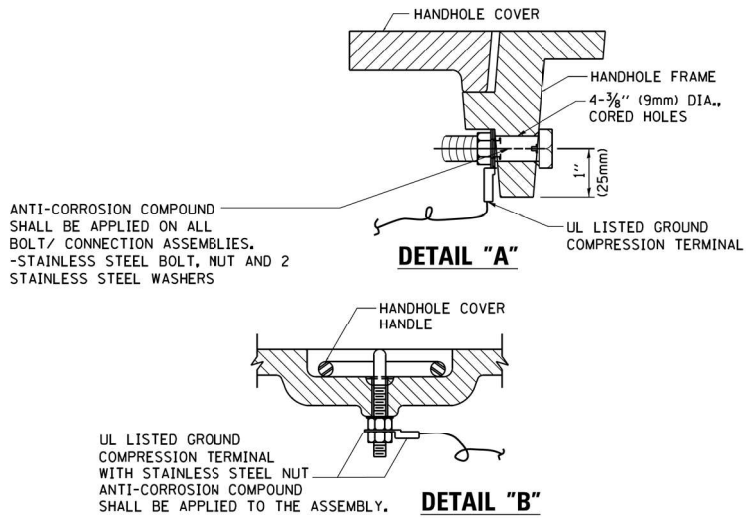


SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

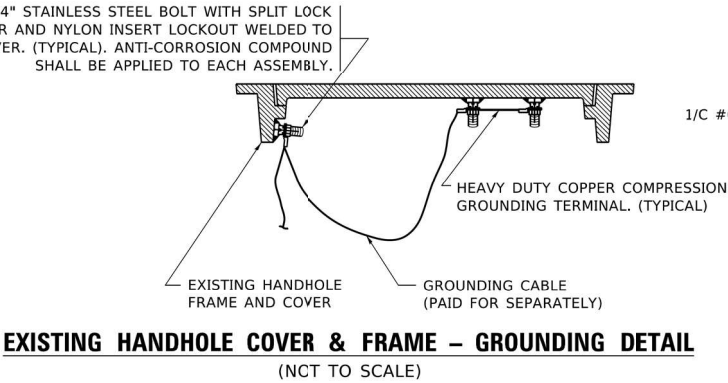
CABINET - BASE BOLT PATTERN
(NOT TO SCALE)

NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



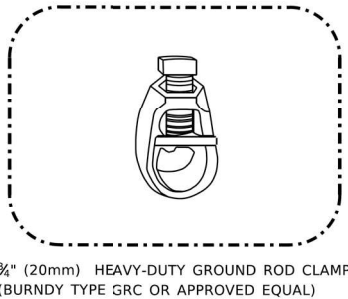
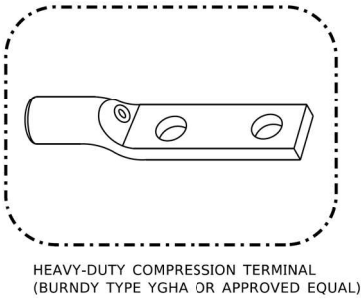
HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
(NCT TO SCALE)

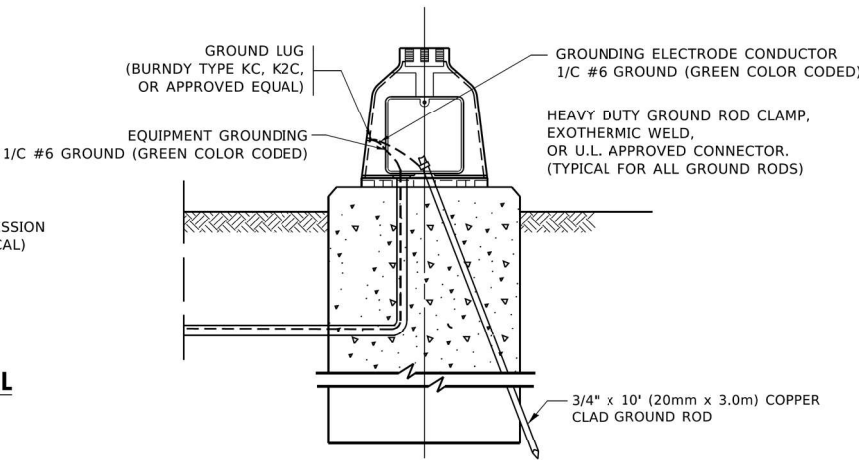
NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE /POST-GROUNDING DETAIL
(NOT TO SCALE)

iteris

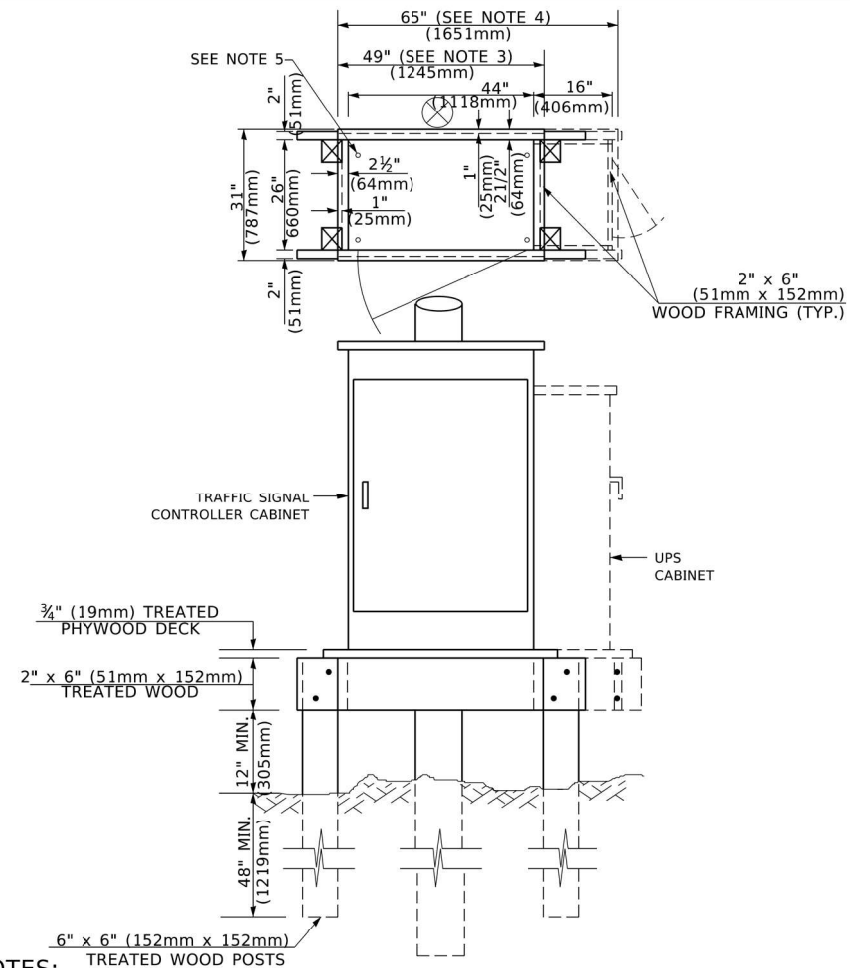
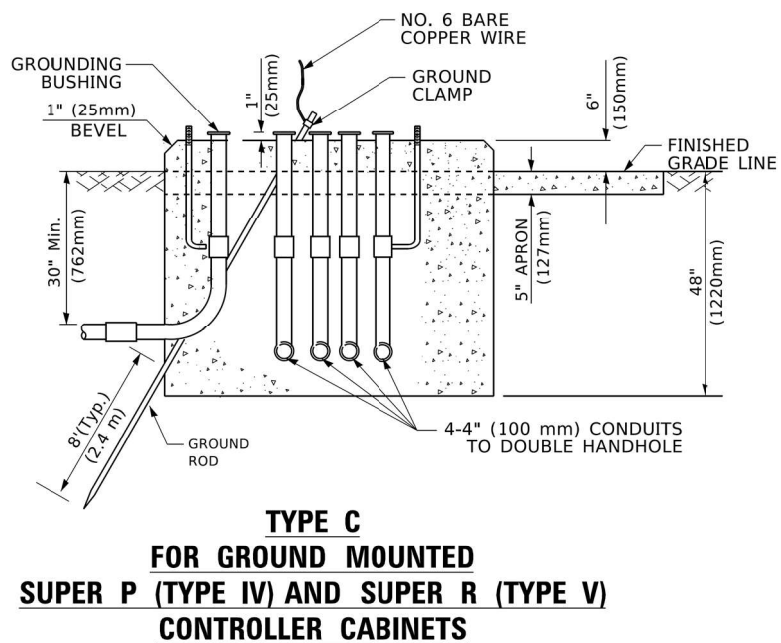
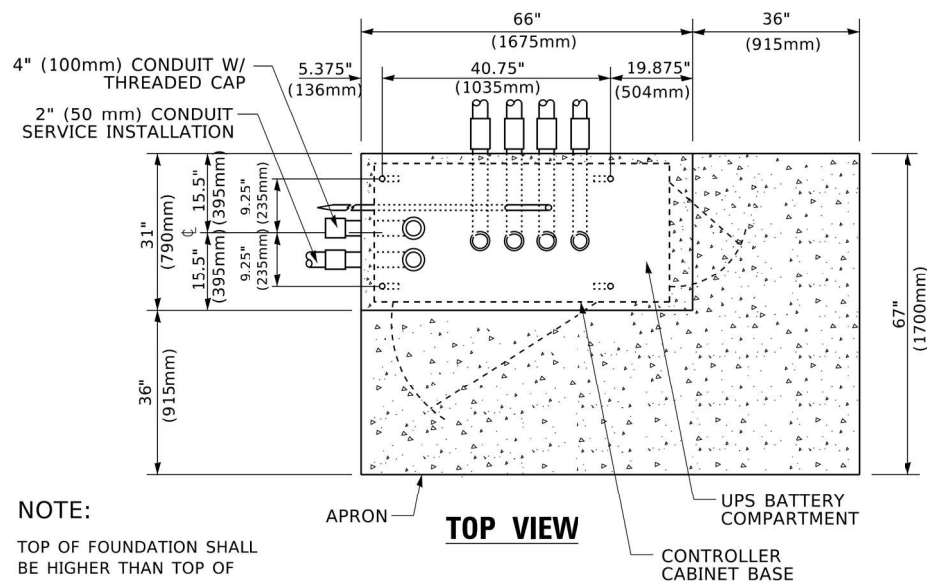
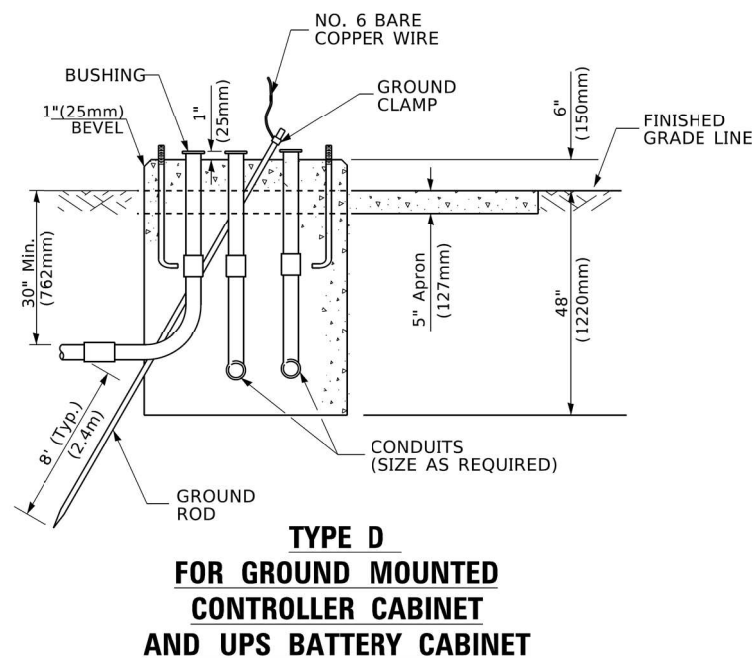
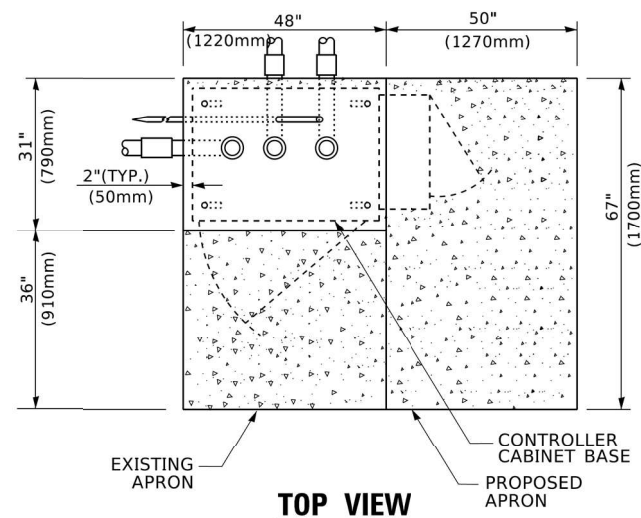
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PLOT SCALE = 50.0000" / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	TS-05	COOK	52	19
			CONTRACT NO. 62W57	
		ILLINOIS FED. AID PROJECT		



TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METERS
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

CABLE SLACK

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

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 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m) 11'-0" (3.4 m)	30" (750mm) 36" (900mm)	24" (600mm) 30" (750mm)	8 12	6(19) 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:

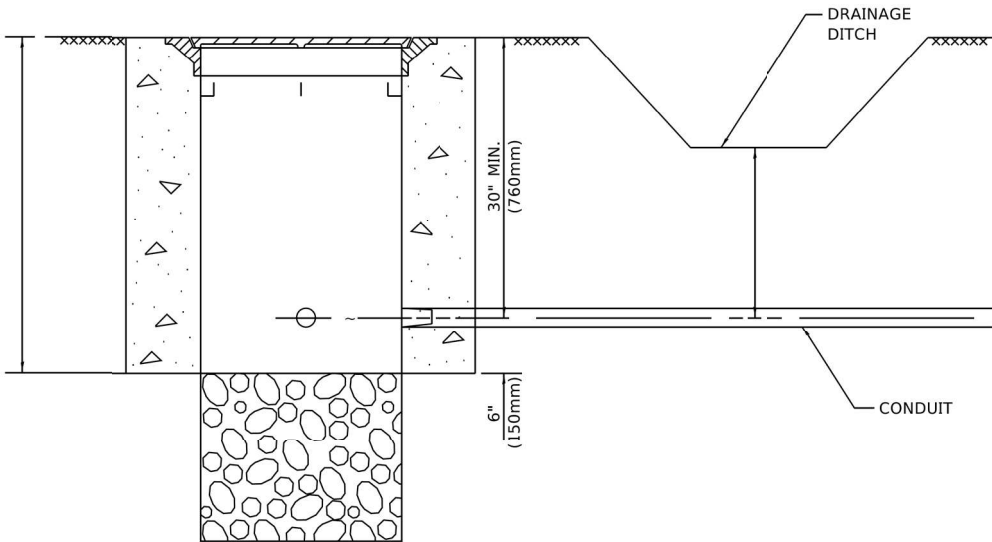
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive Strength (Q_{ul}) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer 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 mast arm assemblies with dual arms refer to state standard 878001..

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.

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...

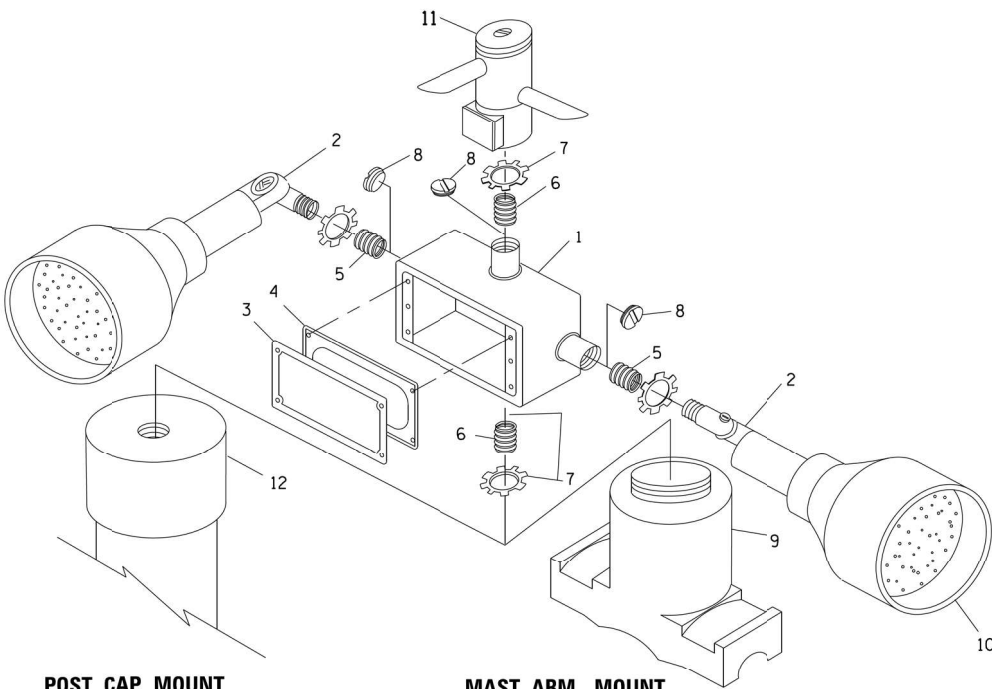
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



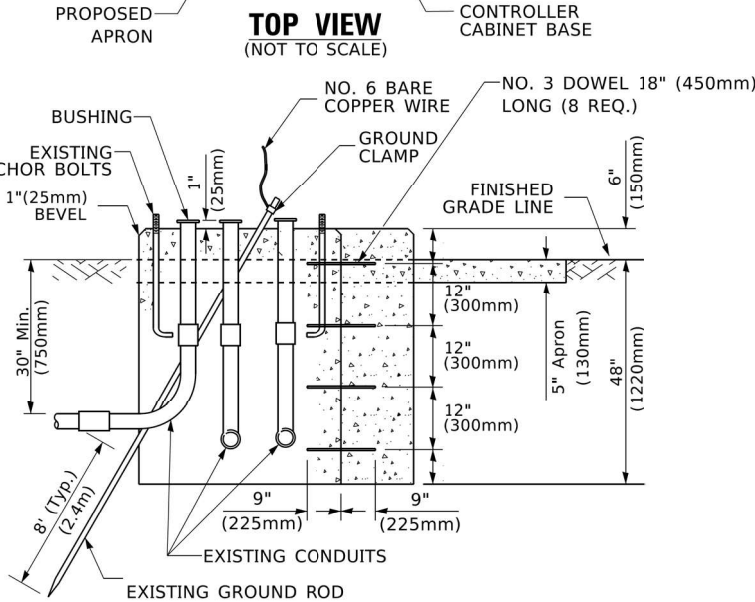
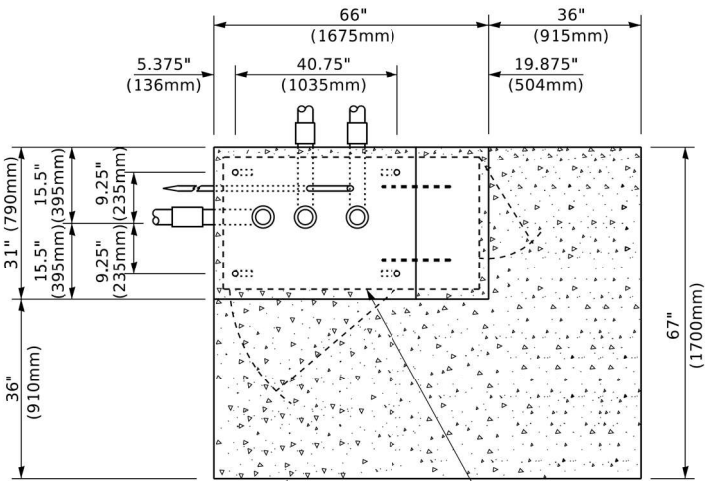
NOTES:

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 (NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

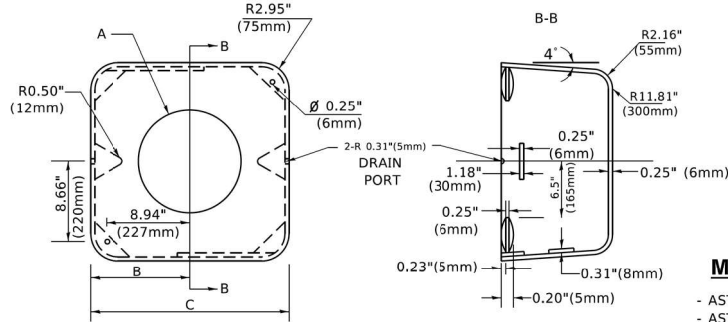


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION (NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(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 GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

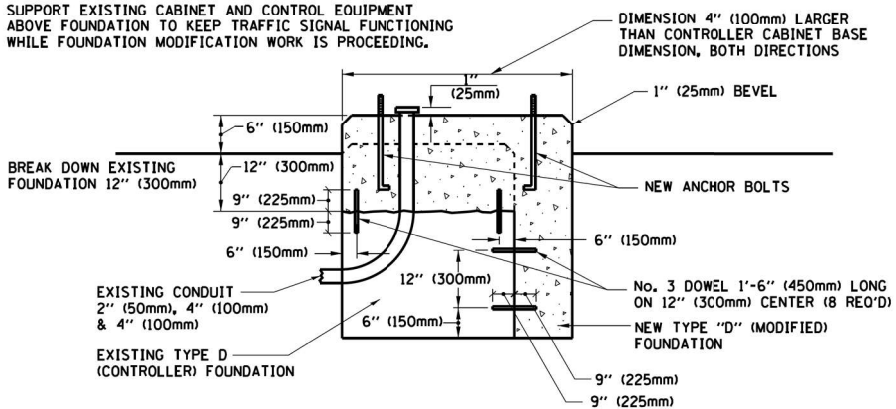
SHROUD

NOTES:

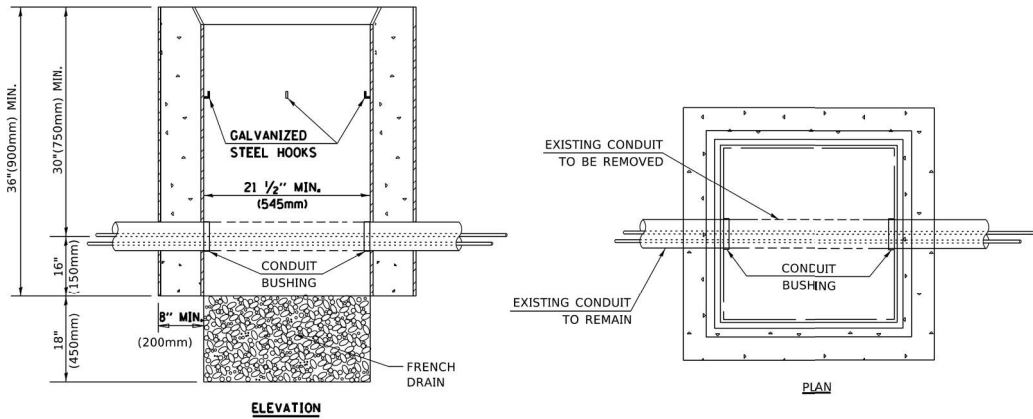
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

iteris

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

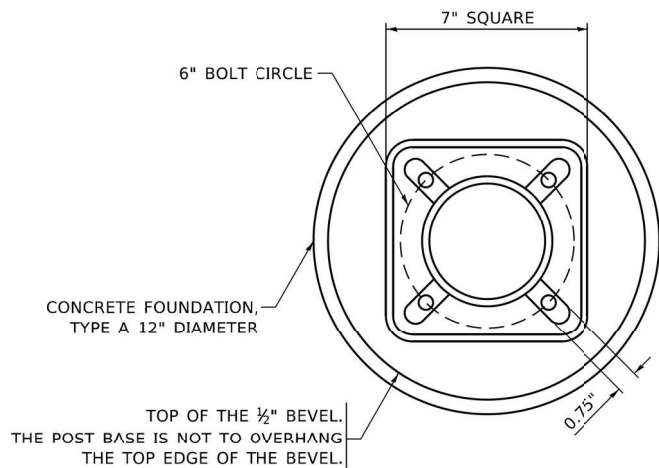
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

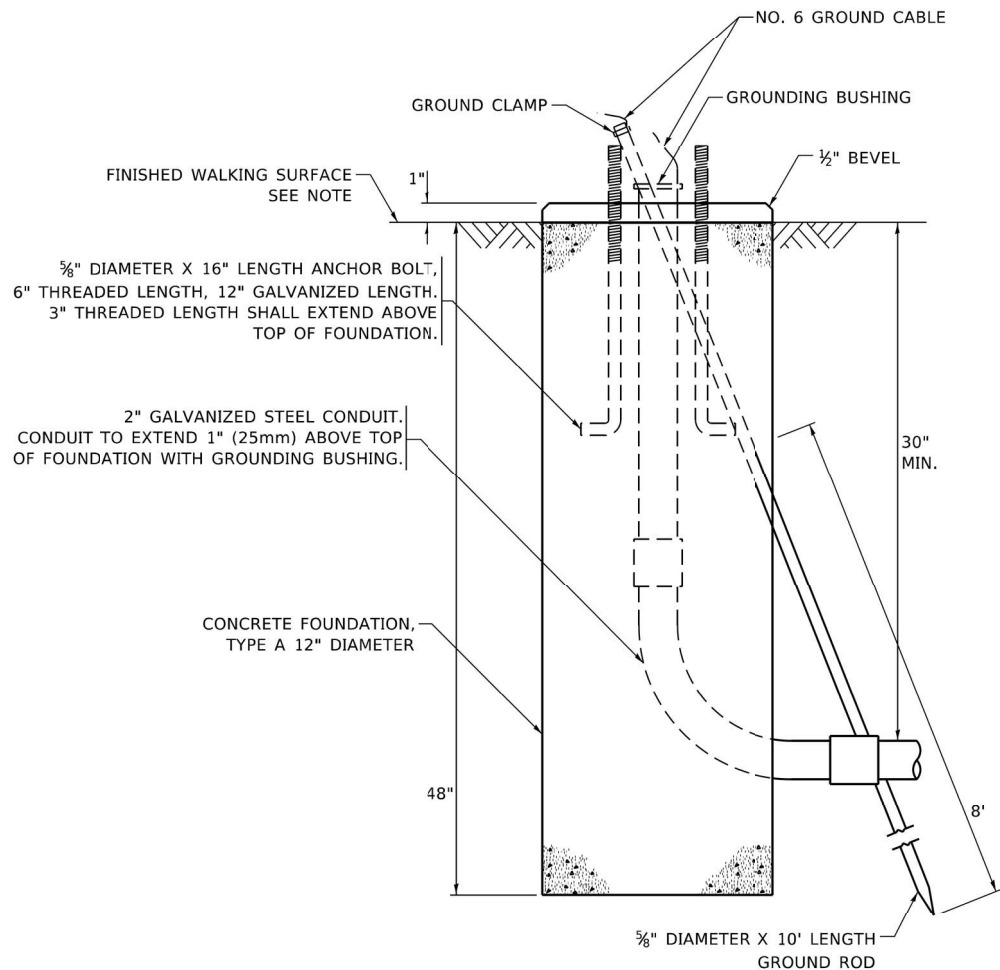
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	TS-05	COOK	52	21
			CONTRACT NO. 62W57	

ILLINOIS FED. AID PROJECT

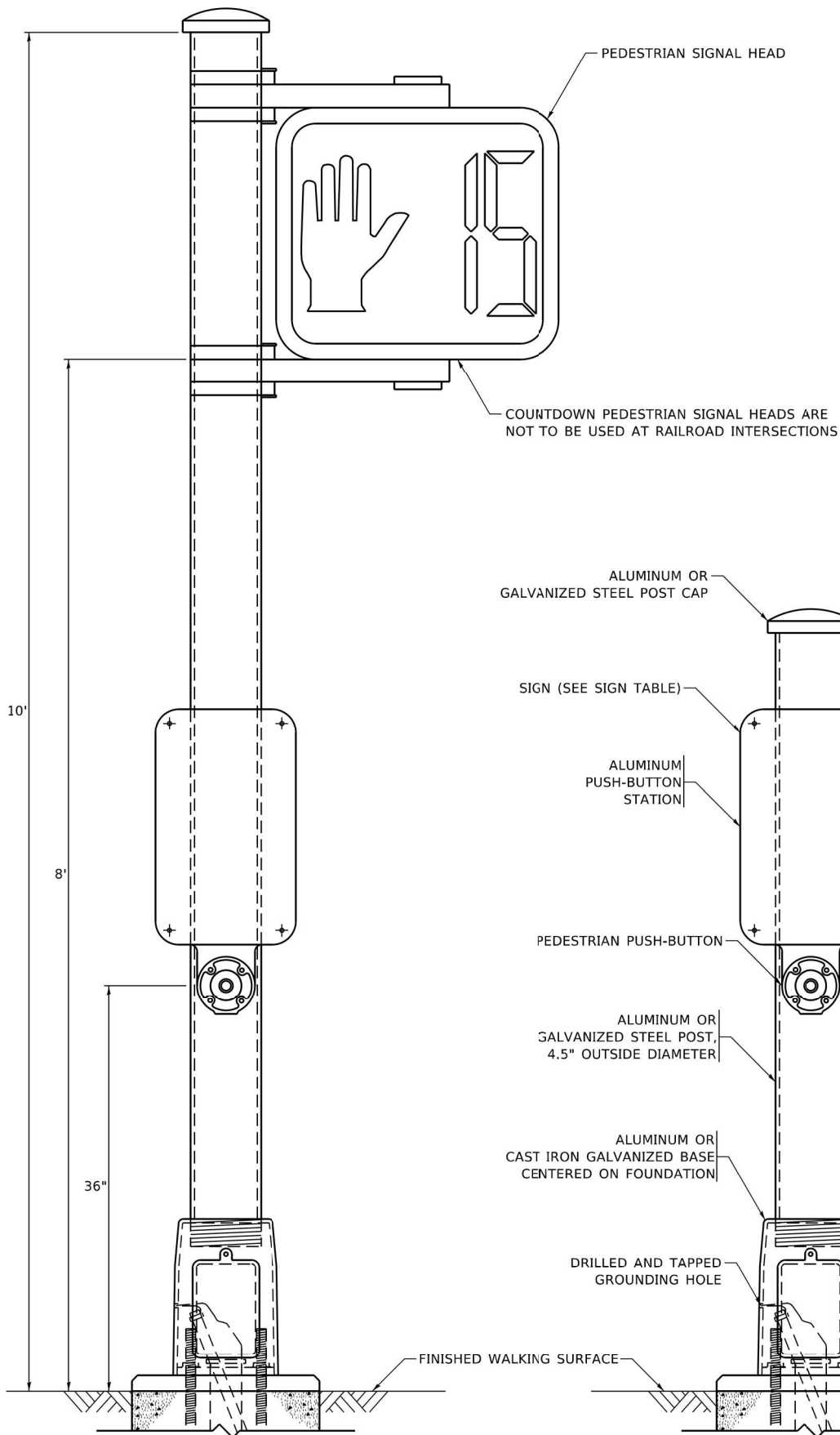


BOLT PATTERN

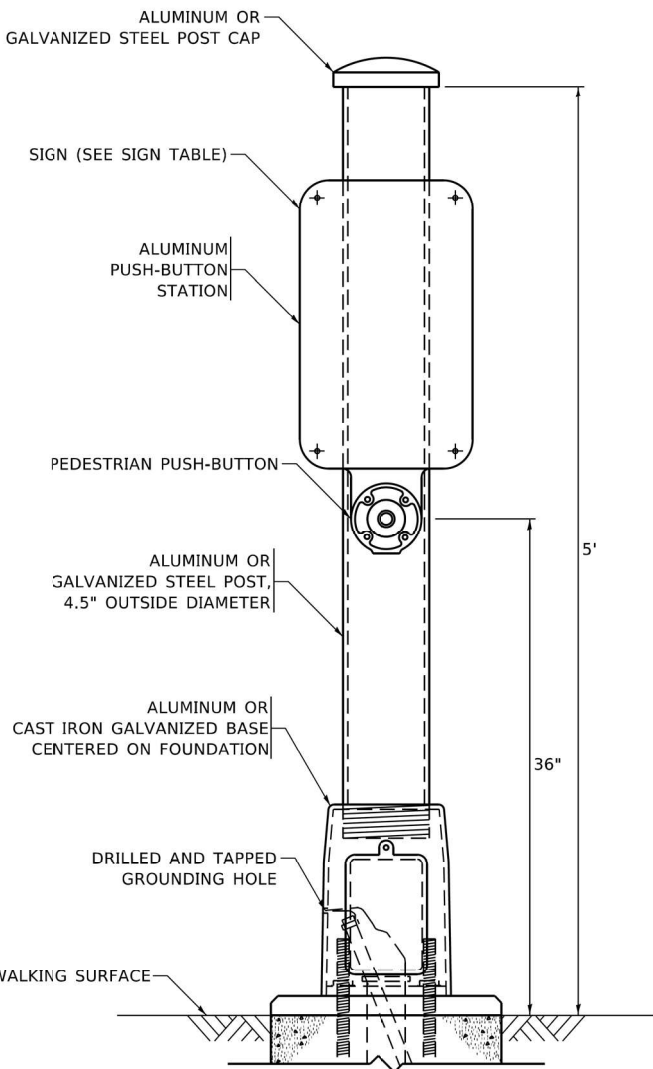
NOTE:
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



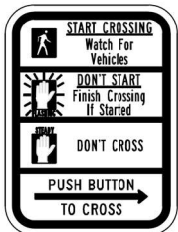
CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER



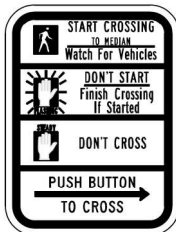
PEDESTRIAN SIGNAL POST, 10 FT.



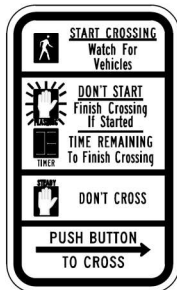
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



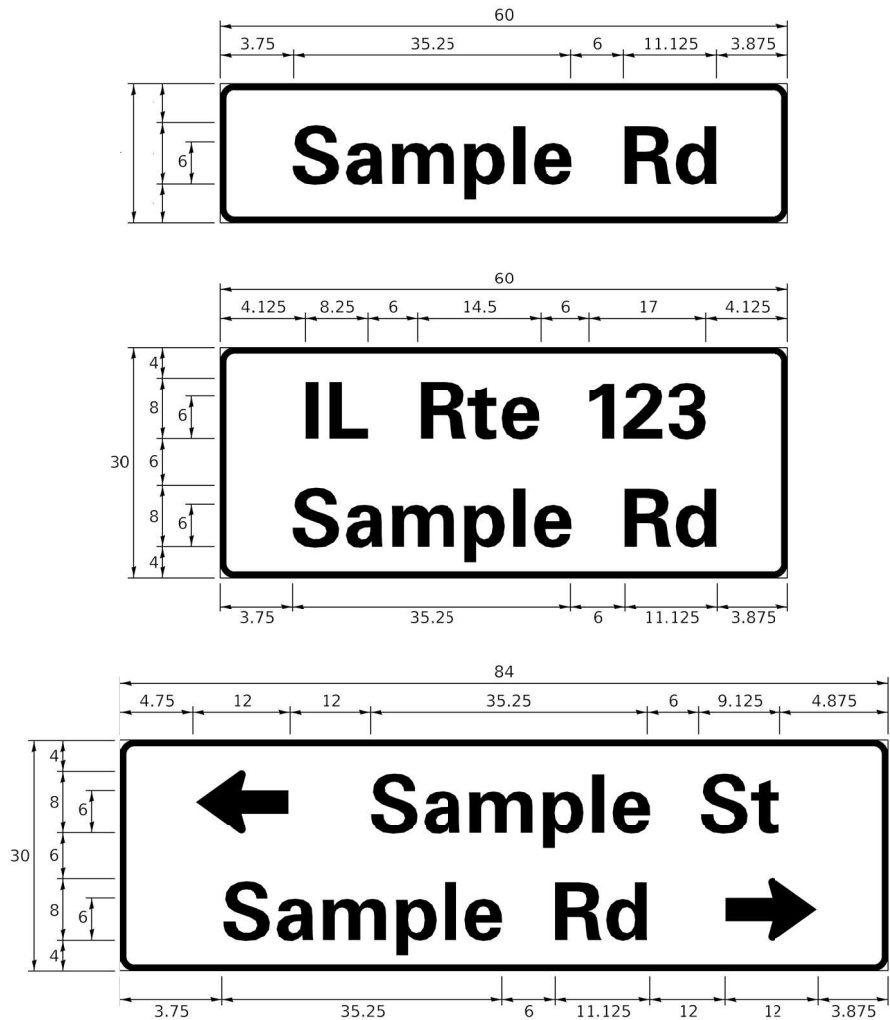
R10-3e

SIGN TABLE

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

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.

SIGN PANEL – TYPE 1 OR TYPE 2



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

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

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

LOCAL SUPPLIERS:

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

- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

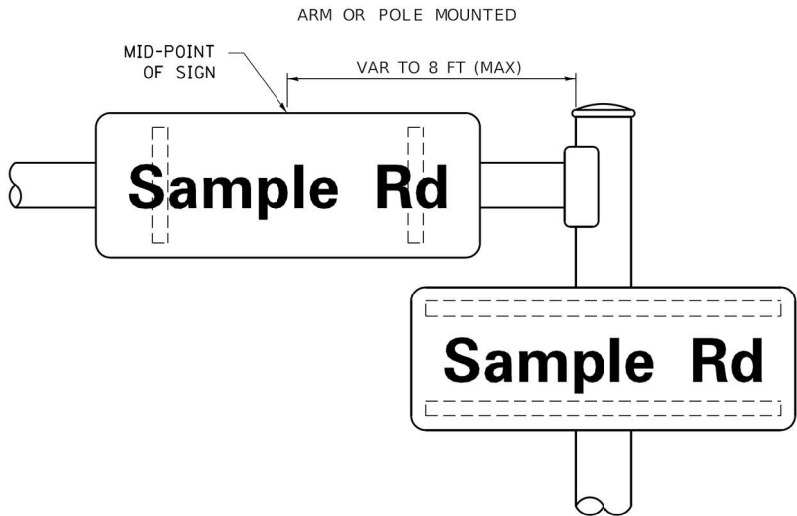
SIGN CHANNEL
SIGN SCREWS

BRACKETS

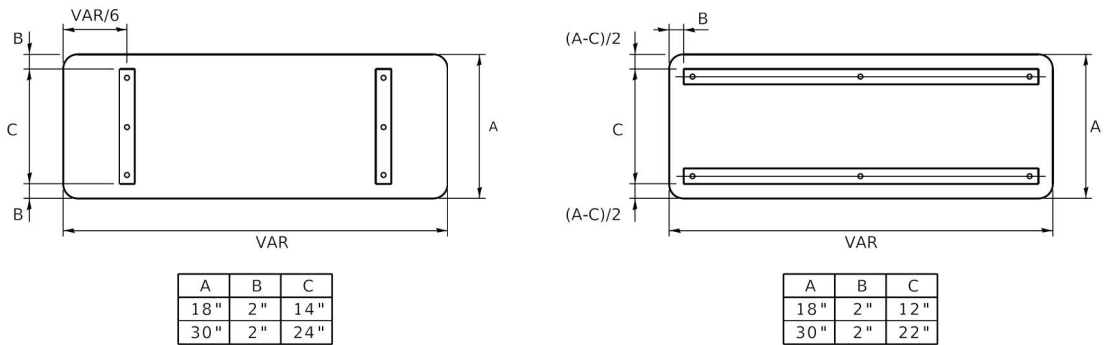
PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

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

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.432	0.480	B	0.960	5.446	0.400
C	0.720	4.432	0.720	C	0.800	5.446	0.800
D	0.880	4.432	0.720	D	0.960	5.446	0.800
E	0.880	4.032	0.480	E	0.960	4.962	0.400
F	0.880	4.032	0.240	F	0.960	4.962	0.240
G	0.720	4.432	0.720	G	0.800	5.446	0.800
H	0.880	4.432	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	4.032	0.880	J	0.240	5.122	0.960
K	0.880	4.432	0.480	K	0.960	5.604	0.400
L	0.880	4.032	0.240	L	0.960	4.962	0.240
M	0.880	5.234	0.880	M	0.960	6.244	0.960
N	0.880	4.432	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.432	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.432	0.480	R	0.960	5.446	0.400
S	0.480	4.432	0.480	S	0.400	5.446	0.400
T	0.240	4.032	0.240	T	0.240	4.962	0.240
U	0.880	4.432	0.880	U	0.960	5.446	0.960
V	0.240	4.952	0.240	V	0.240	6.084	0.240
W	0.240	6.034	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	4.432	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.032	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.032	0.720	d	0.480	4.802	0.800
e	0.480	4.032	0.320	e	0.480	4.722	0.320
f	0.320	2.430	0.160	f	0.320	2.882	0.160
g	0.480	4.032	0.720	g	0.480	4.802	0.800
h	0.720	4.032	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
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.032	0.640	n	0.800	4.722	0.720
o	0.480	4.032	0.480	o	0.480	4.882	0.480
p	0.720	4.032	0.480	p	0.800	4.802	0.480
q	0.480	4.032	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	3.352	0.240	s	0.320	3.762	0.240
t	0.080	2.832	0.080	t	0.080	3.202	0.080
u	0.640	4.032	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.952	0.160	y	0.160	6.004	0.160
z	0.240	3.352	0.240	z	0.240	4.002	0.240
1	0.720	1.630	0.880	1	0.800	2.000	0.960
2	0.480	4.432	0.480	2	0.800	5.446	0.800
3	0.480	4.432	0.480	3	1.440	5.446	0.800
4	0.240	4.952	0.720	4	0.160	6.004	0.960
5	0.480	4.432	0.480	5	0.800	5.446	0.800
6	0.720	4.432	0.720	6	0.800	5.446	0.800
7	0.240	4.432	0.720	7	0.560	5.446	0.560
8	0.480	4.432	0.480	8	0.800	5.446	0.800
9	0.480	4.432	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 = [footem]	DESIGNED - LP/IP	REVISED - LP 07/01/2015
	DRAWN - LP	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - IP	REVISED -
PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	23
TS-02		CONTRACT NO. 62W57		
ILLINOIS		FED. AID PROJECT		

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH TRAFFIC SIGNAL CABINET AND CONTROLLER (COMPLETE)
- 1 EACH UNINTERRUPTED POWER SUPPLY (COMPLETE)
- 2 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 8 EACH TRAFFIC SIGNAL POST
- 2 EACH 3-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 10 EACH 3-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH STREET NAME SIGN PANEL

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 8 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE
- 3 EACH ACCESSIBLE PEDESTRIAN SIGNAL

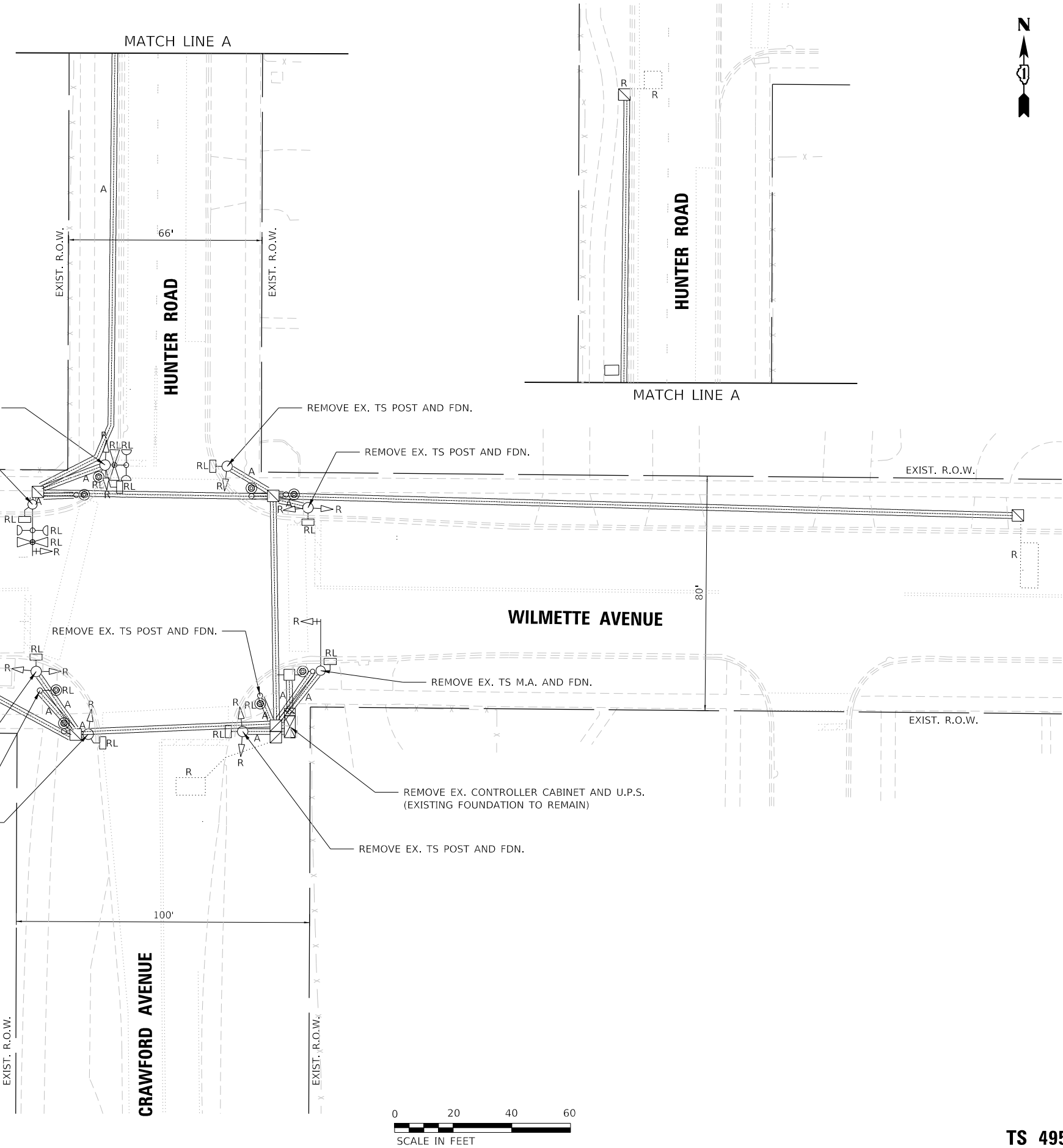
RELOCATE EXISTING SIGNAGE:

THE FOLLOWING EXISTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR FROM ALL EXISTING TRAFFIC SIGNAL POSTS AND POLES TO BE REMOVED. THE SIGNAGE SHALL BE SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT.

- 5 EACH 'NO TURN ON RED' (R10-11B, 24"X24")
- 5 EACH 'WHEN PEDESTRIANS ARE PRESENT' (CUSTOM, 24"X12")
- 4 EACH SCHOOL CROSSING ASSEMBLY (S1-1, 36"X36" AND W16-7P, 24"X12")

GENERAL NOTES:

- 1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL IS FULLY OPERATIONAL OR AS DIRECTED BY THE IDOT TRAFFIC SIGNAL AREA ENGINEER.
- 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



USER NAME	= amaravillas	DESIGNED -	AM	REVISED -	
		DRAWN -	AM	REVISED -	
PLOT SCALE	= 2,0000 ' / in.	CHECKED -	BF	REVISED -	
PLOT DATE	= 6/11/2025	DATE -	6/11/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
CRAWFORD AVENUE AND WILMETTE AVENUE

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

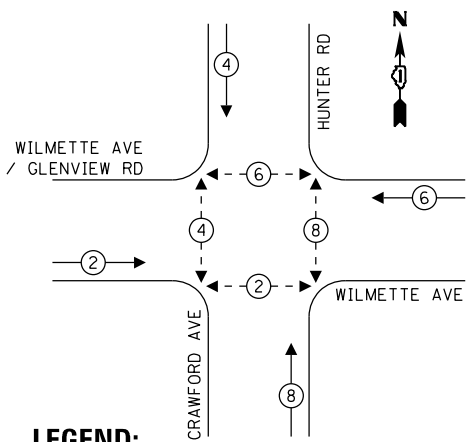
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	24
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

TS 4950

1. ADA RAMP IMPROVEMENTS AND APS UPGRADES WILL BE COMPLETED BY IDOT CONTRACT 62P94. APS PUSH BUTTONS ARE SHOWN AS EXISTING REFERENCE ONLY.
2. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
4. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.



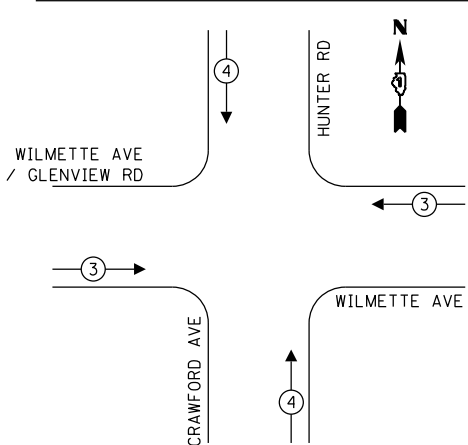
EXISTING AND PROPOSED
CONTROLLER SEQUENCE



LEGEND:

- ←(*) PROTECTED PHASE
- ←-(*)- PROTECTED/PERMITTED PHASE
- ←-(*)→ PEDESTRIAN PHASE
- ←◇OL OVERLAP

EXISTING AND PROPOSED EMERGENCY
VEHICLE PREEMPTION SEQUENCE



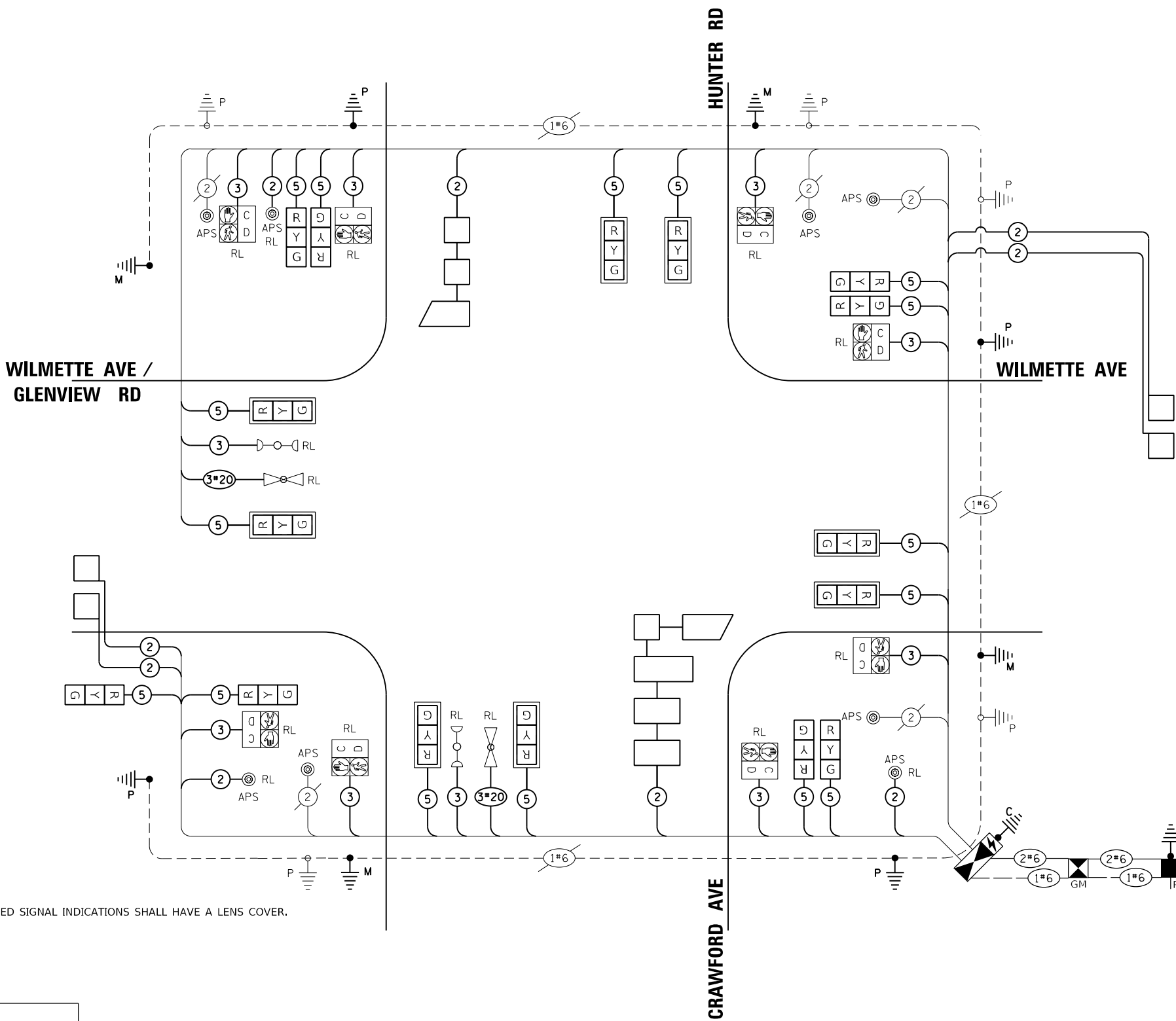
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	16	176
	4-SECTION	-	-
	5-SECTION	-	-
PROGRAMMABLE	3-SECTION	-	-
	4-SECTION	-	-
	5-SECTION	-	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		471	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1076	

ENERGY COSTS - BILLED TO:
VILLAGE OF WILMETTE
1200 WILMETTE AVENUE
WILMETTE, IL 60091

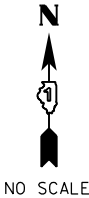
ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: 866-639-3532
COMPANY: COM. EDISON
ACCOUNT NUMBER: 08563-01111
METER NUMBER:

NOTES:

- ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.



CABLE PLAN
(NOT TO SCALE)



MODEL: Default
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USER NAME = amaravillas
PLOT SCALE = 100,0000 ' / in.
PLOT DATE = 6/11/2025

DESIGNED - AM
DRAWN - AM
CHECKED - BF
DATE - 6/11/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
CRAWFORD AVENUE AND WILMETTE AVENUE

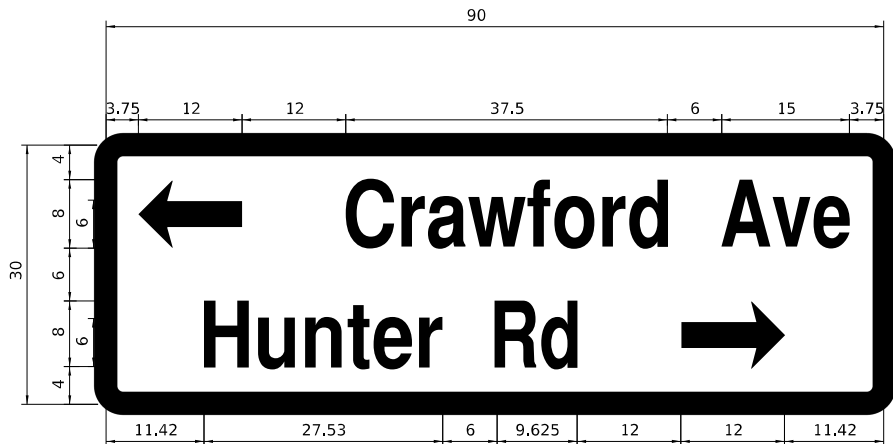
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	26
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

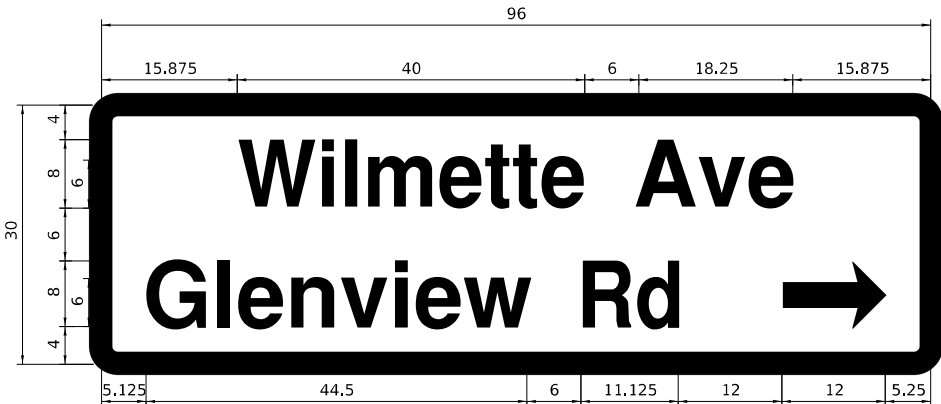
TS 4950

SIGN PANEL – TYPE 2

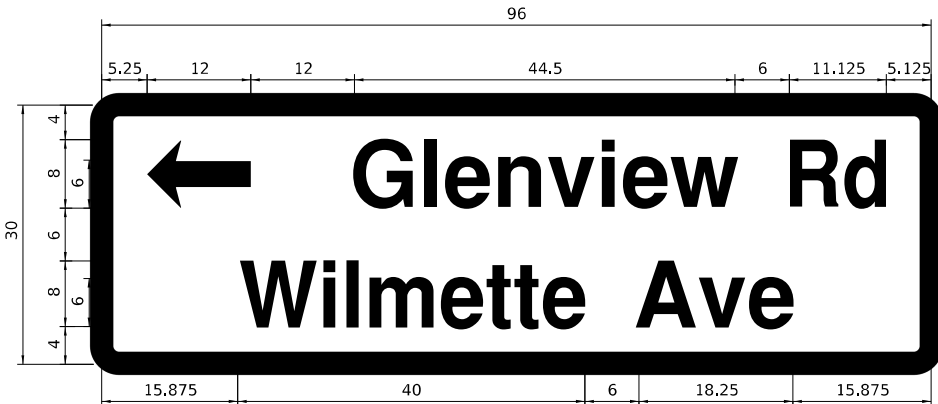
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	TYPE 2	ZZ	1

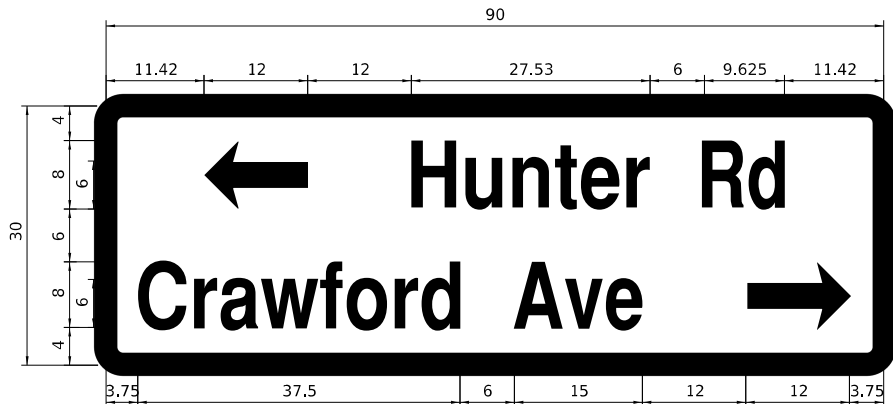


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	20	TYPE 2	ZZ	1

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 2	SQ FT	77.5
RELOCATE SIGN PANEL - TYPE 1	SQ FT	74
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	93
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	217
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	383
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1453
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2363
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1652
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	46
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	514
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
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, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	40.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	452
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3845
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	382
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	16
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
• 100% OF COST TO THE VILLAGE OF WILMETTE		

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



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

TS 4950

iteris

USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 6/17/2025	DATE - 6/17/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
CRAWFORD AVENUE AND WILMETTE AVENUE

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	27
		CONTRACT NO. 62W57		
		ILLINOIS	FED. AID PROJECT	

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 3 EACH 3-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 7 EACH 3-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 1 EACH 5-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 1 EACH 5-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 6 EACH STREET NAME SIGN PANEL

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 8 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE

RELOCATE EXISTING SIGNAGE:

THE FOLLOWING EXISTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR FROM ALL EXISTING TRAFFIC SIGNAL POSTS AND POLES TO BE REMOVED. THE SIGNAGE SHALL BE SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT.

- 2 EACH 'NO TURN ON RED' (R10-11B, 24"X24")
- 2 EACH 'WHEN PEDESTRIANS ARE PRESENT' (CUSTOM, 24"X12")

GENERAL NOTES:

- 1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL IS FULLY OPERATIONAL OR AS DIRECTED BY THE IDOT TRAFFIC SIGNAL AREA ENGINEER.
- 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



MODEL: Default
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		DRAWN -	AM	REVISED -	
PLOT SCALE	= 2,000.0 ' / in.	CHECKED -	BF	REVISED -	
PLOT DATE	= 2/26/2025	DATE -	2/26/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
CRAWFORD AVENUE AND HARRISON STREET / OLD ORCHARD ROAD

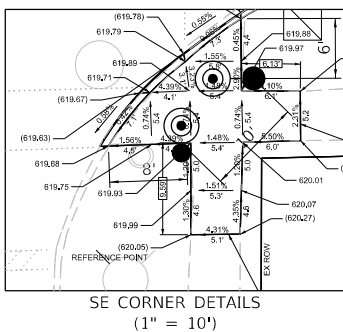
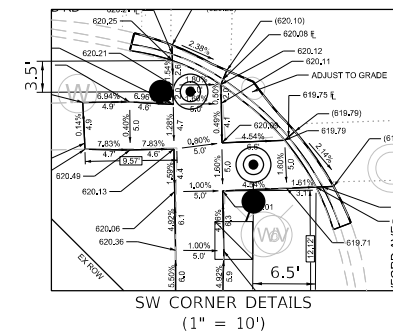
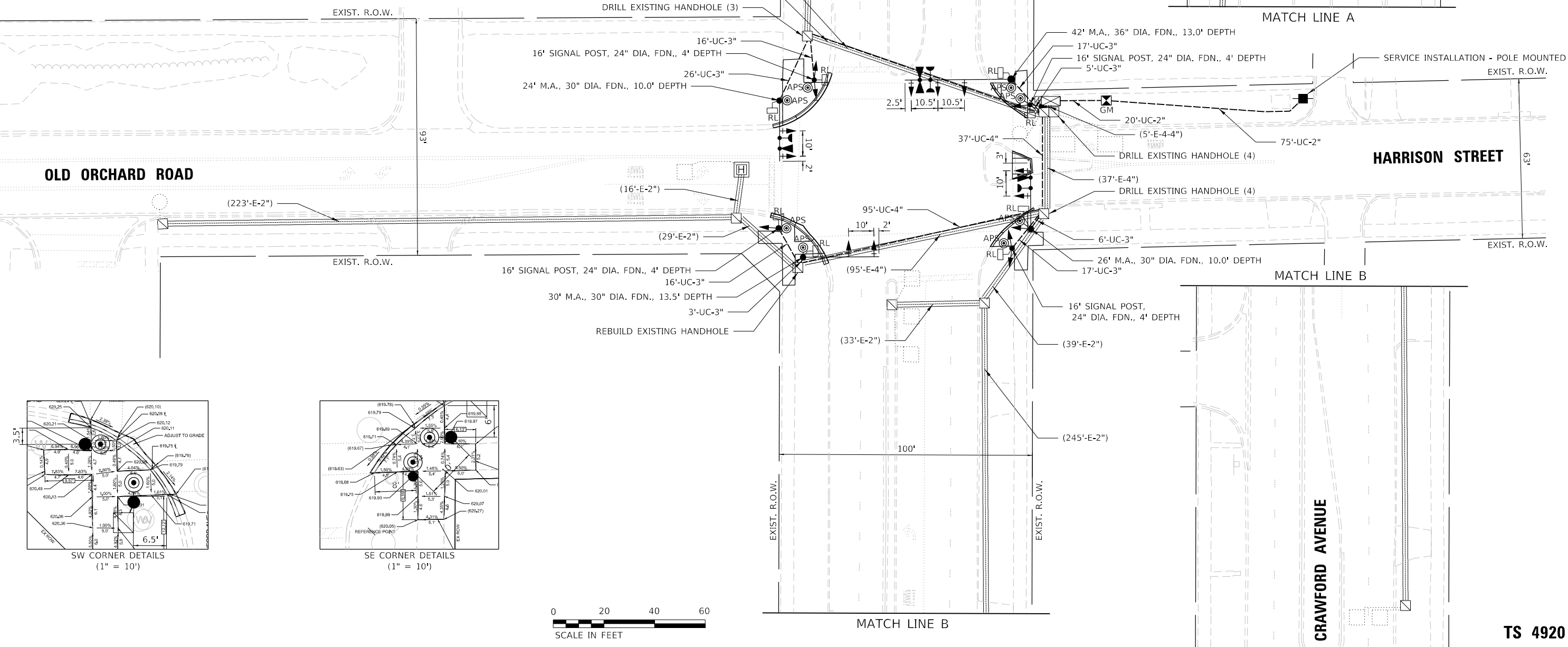
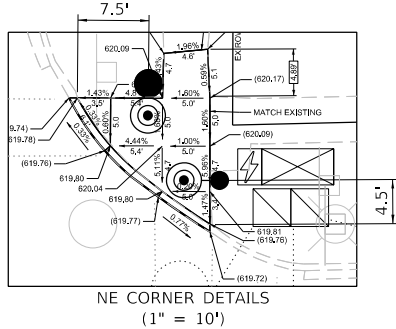
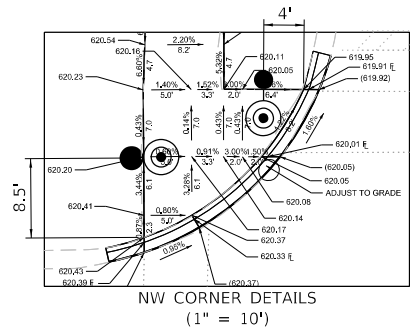
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	28
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

TS 4920

NOTES:

1. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.
2. THE CONTRACTOR SHALL CONFIRM THE FIELD LOCATION OF THE APS EQUIPMENT WITH THE IDOT TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
3. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
4. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.



MODEL: Default
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iteris

USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - BF	REVISED -
PLOT DATE = 6/11/2025	DATE - 6/11/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
CRAWFORD AVENUE AND HARRISON STREET / OLD ORCHARD ROAD

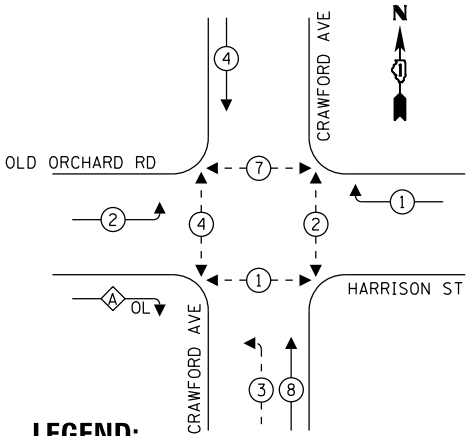
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	29
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

TS 4920

MODEL: Default
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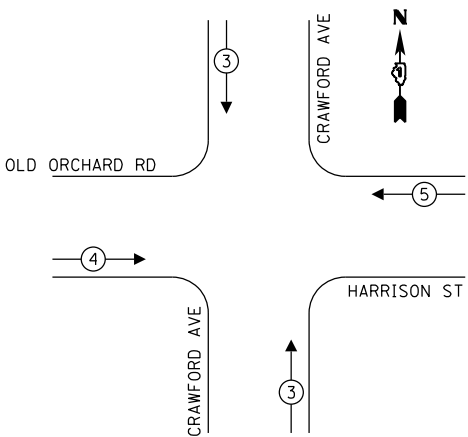
EXISTING AND PROPOSED
CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← OL → OVERLAP

PROPOSED EMERGENCY
VEHICLE PREEMPTION SEQUENCE



RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER	PROTECTED PHASE
A	= 2 + 3

OLD ORCHARD RD

CRAWFORD AVE

HARRISON ST

NOTES:

- ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.

CABLE PLAN
(NOT TO SCALE)

ENERGY COSTS - BILLED TO:

CITY OF EVANSTON
2100 RIDGE AVENUE
EVANSTON, IL 60201

ENERGY SUPPLY:

CONTACT: NEW BUSINESS DEPT.
PHONE: 866-639-3532
COMPANY: COM. EDISON
ACCOUNT NUMBER: 09738-92000
METER NUMBER:

iteris

USER NAME	= amaravillas
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 6/11/2025

DESIGNED	- AM
DRAWN	- AM
CHECKED	- BF
DATE	- 6/11/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
CRAWFORD AVENUE AND HARRISON STREET / OLD ORCHARD ROAD

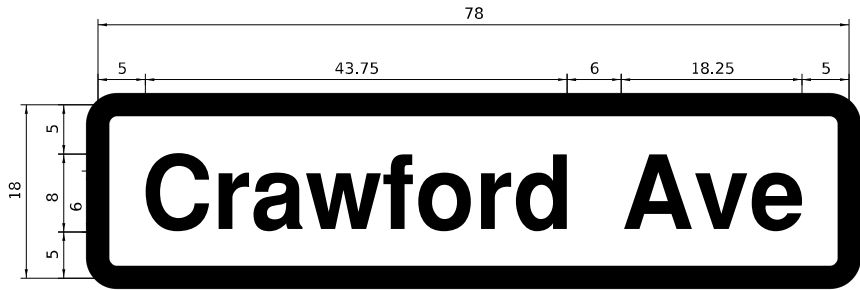
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	30
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

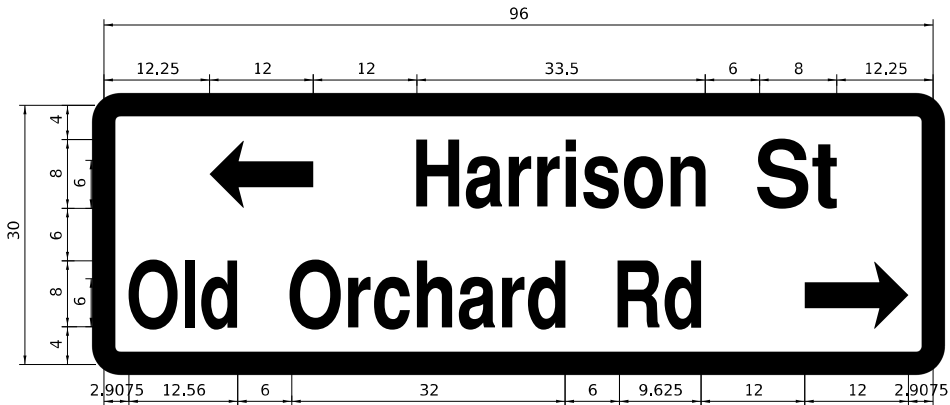
TS 4920

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	TYPE 2	ZZ	1



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
C	20	TYPE 2	ZZ	1

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 2	SO. FT.	59.5
RELOCATE SIGN PANEL - TYPE 1	SO. FT.	12
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	95
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	106
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	227
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	954
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1405
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1998
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	262
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	125
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	516
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2361
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	406
CELLULAR MODEM	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TEMPORARY INFORMATION SIGNING	SO. FT.	102.8
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	17
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
• 100% OF COST TO THE CITY OF EVANSTON		

TS 4920



USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 6/17/2025	DATE - 6/17/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES CRAWFORD AVENUE AND HARRISON STREET / OLD ORCHARD ROAD			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	31
				CONTRACT NO. 62W57
				ILLINOIS FED. AID PROJECT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH TRAFFIC SIGNAL CONTROLLER (ECONOLITE ASC/2S-2100)
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 4 EACH 3-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 4 EACH 5-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 8 EACH 5-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 8 EACH PEDESTRIAN PUSH-BUTTON
- 3 EACH STREET NAME SIGN PANEL

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBLITY TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 6 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE

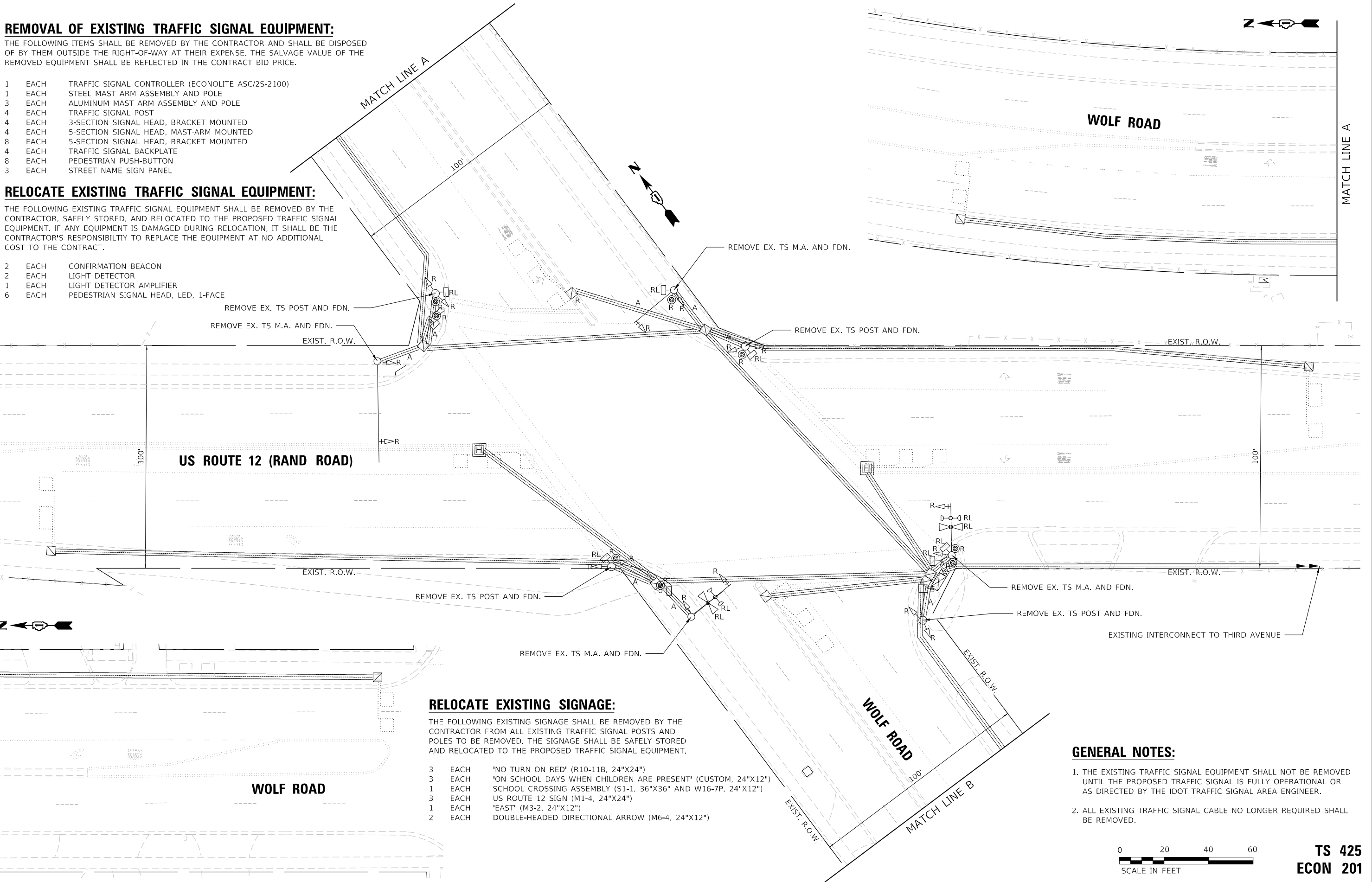
RELOCATE EXISTING SIGNAGE:

THE FOLLOWING EXISTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR FROM ALL EXISTING TRAFFIC SIGNAL POSTS AND POLES TO BE REMOVED. THE SIGNAGE SHALL BE SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT.

- 3 EACH 'NO TURN ON RED' (R10-11B, 24"X24")
- 3 EACH 'ON SCHOOL DAYS WHEN CHILDREN ARE PRESENT' (CUSTOM, 24"X12")
- 1 EACH SCHOOL CROSSING ASSEMBLY (S1-1, 36"X36" AND W16-7P, 24"X12")
- 3 EACH US ROUTE 12 SIGN (M1-4, 24"X24")
- 1 EACH 'EAST' (M3-2, 24"X12")
- 2 EACH DOUBLE-HEADED DIRECTIONAL ARROW (M6-4, 24"X12")

GENERAL NOTES:

- THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL IS FULLY OPERATIONAL OR AS DIRECTED BY THE IDOT TRAFFIC SIGNAL AREA ENGINEER.
- ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



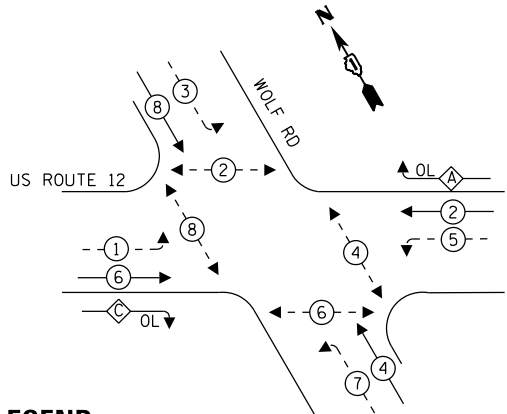
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.
3. THE CONTRACTOR SHALL CONFIRM THE FIELD LOCATION OF THE APS EQUIPMENT WITH THE IDOT TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
6. SEE ADA CORNER DETAILS FOR ADDITIONAL LOCATION OF POSTS AND MAST ARMS.





F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	34
		CONTRACT NO. 62W57		
ILLINOIS		FED. AID PROJECT		

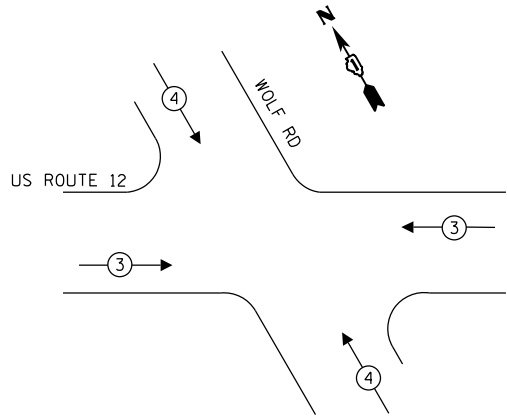
EXISTING AND PROPOSED
CONTROLLER SEQUENCE



LEGEND:

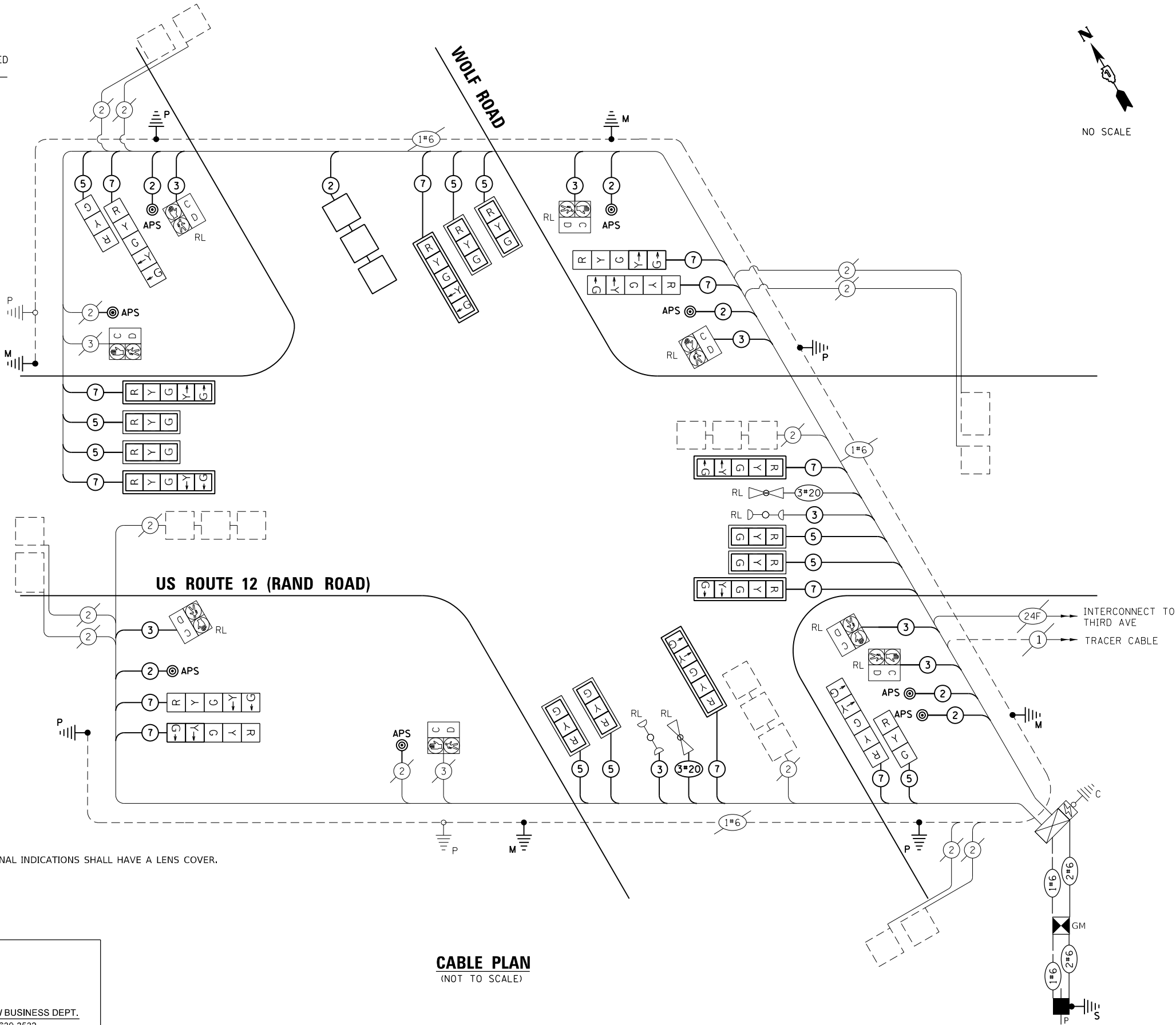
- ←*→ PROTECTED PHASE
- ←-*- PROTECTED/PERMITTED PHASE
- ←*→ PEDESTRIAN PHASE
- ←OL→ OVERLAP

EXISTING AND PROPOSED EMERGENCY
VEHICLE PREEMPTION SEQUENCE



RIGHT TURN OVERLAP
PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7



NOTES:

- ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.

CABLE PLAN
(NOT TO SCALE)

ENERGY COSTS - BILLED TO:

CITY OF DES PLAINES
1420 MINER STREET
DES PLAINES, IL 60016

ENERGY SUPPLY:

CONTACT: NEW BUSINESS DEPT.
PHONE: 866-639-3532
COMPANY: COM. EDISON
ACCOUNT NUMBER: 14016-32000
METER NUMBER:

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	10	11
	4-SECTION	-	14
	5-SECTION	12	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		561	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1166	

iteris

USER NAME	= amaravillas
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 2/27/2025

DESIGNED	- AM
DRAWN	- AM
CHECKED	- BF
DATE	- 2/27/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US ROUTE 12 (RAND ROAD) AND WOLF ROAD

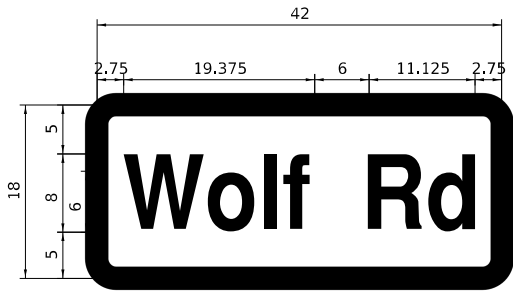
SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	35
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

TS 425
ECON 201

SIGN PANEL – TYPE 1

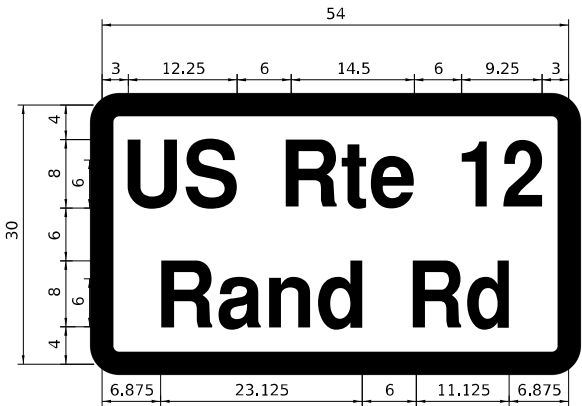
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	TYPE 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	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	16.5
SIGN PANEL - TYPE 2	SQ FT	22.5
RELOCATE SIGN PANEL - TYPE 1	SQ FT	47
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	85
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	126
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	388
HEAVY-DUTY HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1017
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1387
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2273
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2630
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	256
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	697
TRAFFIC SIGNAL POST, 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	1
DETECTOR LOOP, TYPE I	FOOT	49
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	6
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4619
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	328
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	22
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
* 100% OF COST TO THE CITY OF DES PLAINES		

TS 425
ECON 201

iteris

USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 6/17/2025	DATE - 6/17/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US ROUTE 12 (RAND ROAD) AND WOLF ROAD

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	36
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

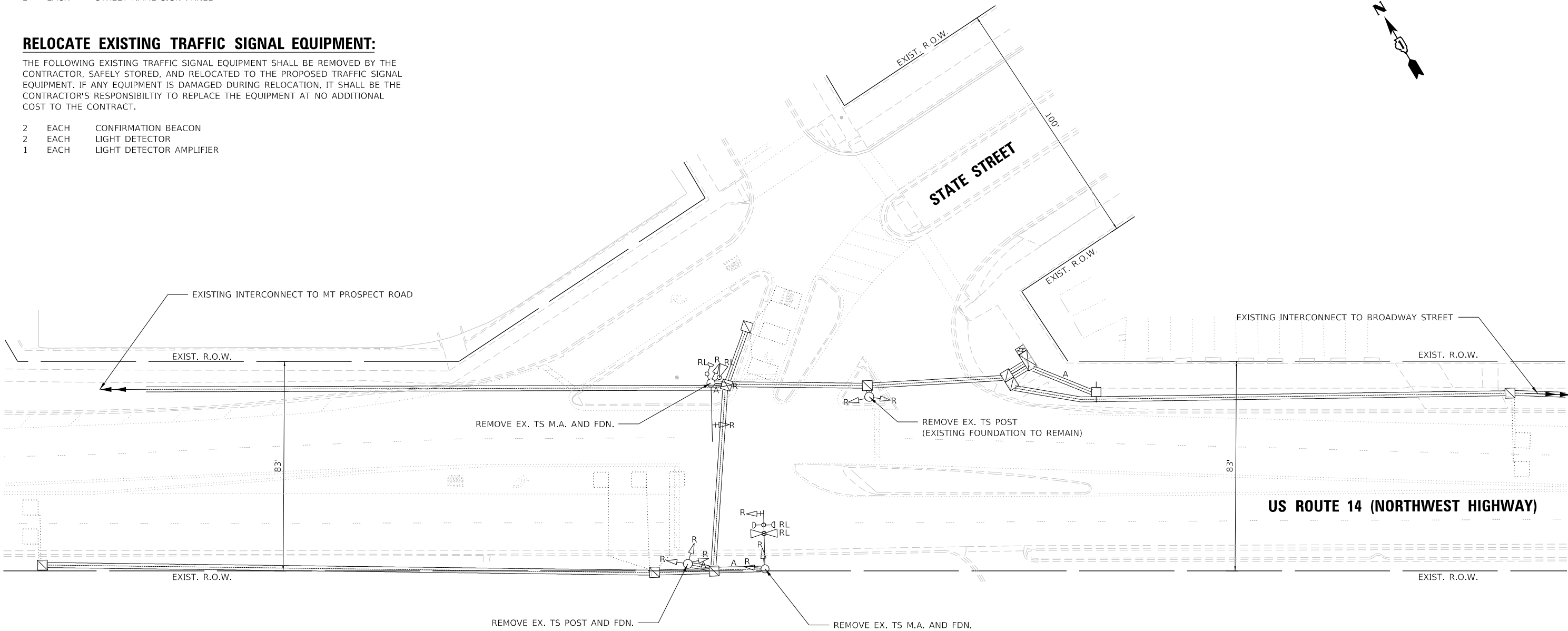
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 2 EACH TRAFFIC SIGNAL POST
- 1 EACH 3-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 8 EACH 3-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 1 EACH 5-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 1 EACH 5-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH STREET NAME SIGN PANEL

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILT Y TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



GENERAL NOTES:

- THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL IS FULLY OPERATIONAL OR AS DIRECTED BY THE IDOT TRAFFIC SIGNAL AREA ENGINEER.
- ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



TS 13080
EAGLE 7L



USER NAME	= amaravilllas	DESIGNED -	AM	REVISED -	
		DRAWN -	AM	REVISED -	
PLOT SCALE	= 2,0000 ' / in.	CHECKED -	BF	REVISED -	
PLOT DATE	= 2/28/2025	DATE -	2/28/2025	REVISED -	

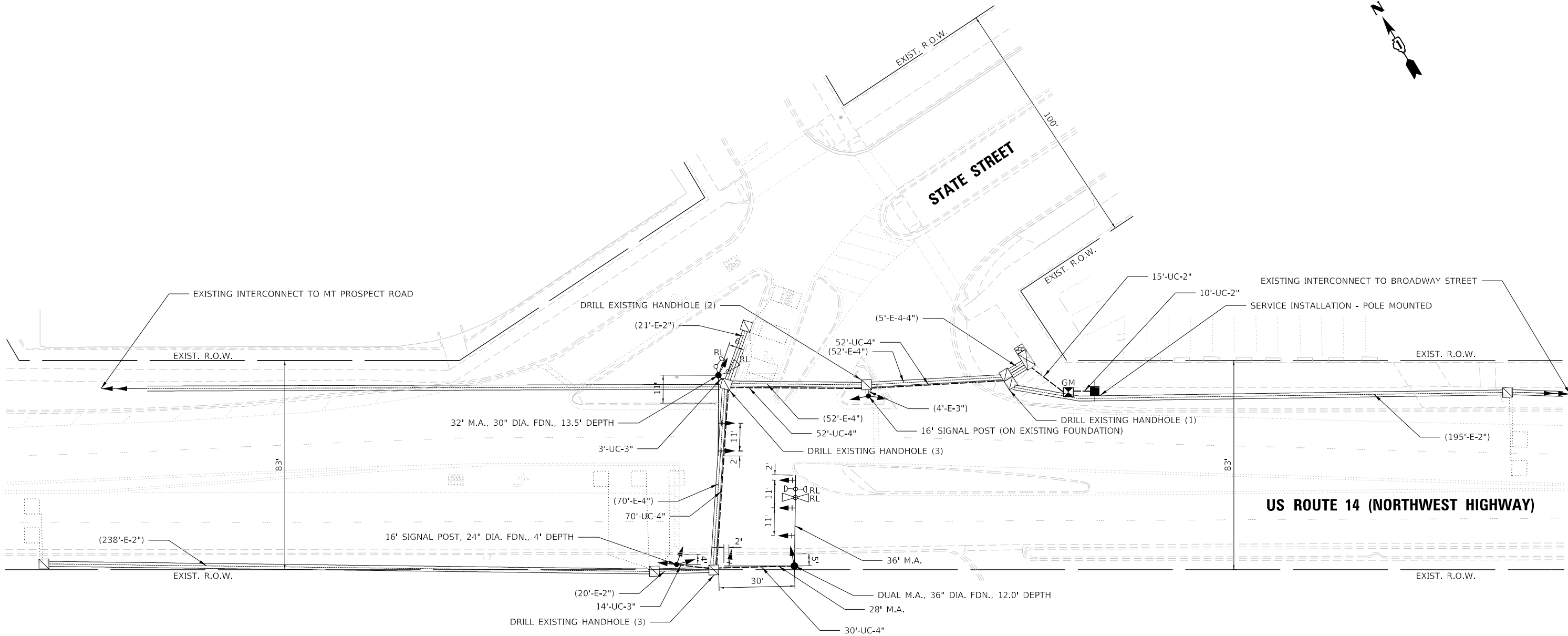
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
US ROUTE 14 (NORTHWEST HIGHWAY) AND STATE STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	37
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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TS 13080
EAGLE 7L



USER NAME = amaravillas	DESIGNED - AM	REVISED -
DRAWN - AM	REVISED -	
PLOT SCALE = 2,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 5/1/2025	DATE - 5/1/2025	REVISED -

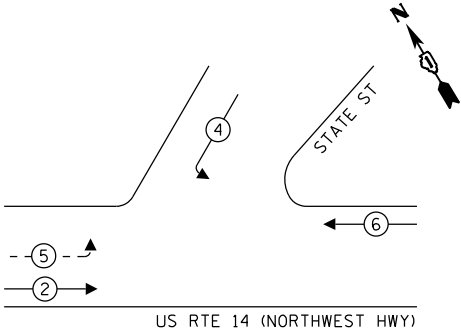
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
US ROUTE 14 (NORTHWEST HIGHWAY) AND STATE STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	38
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

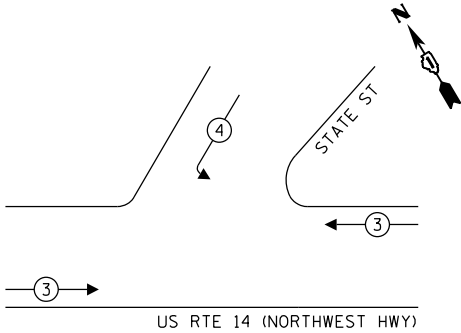
EXISTING AND PROPOSED
CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- OL OVERLAP

EXISTING AND PROPOSED EMERGENCY
VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	11	121
	4-SECTION	-	14
	5-SECTION	2	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		322	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		927	

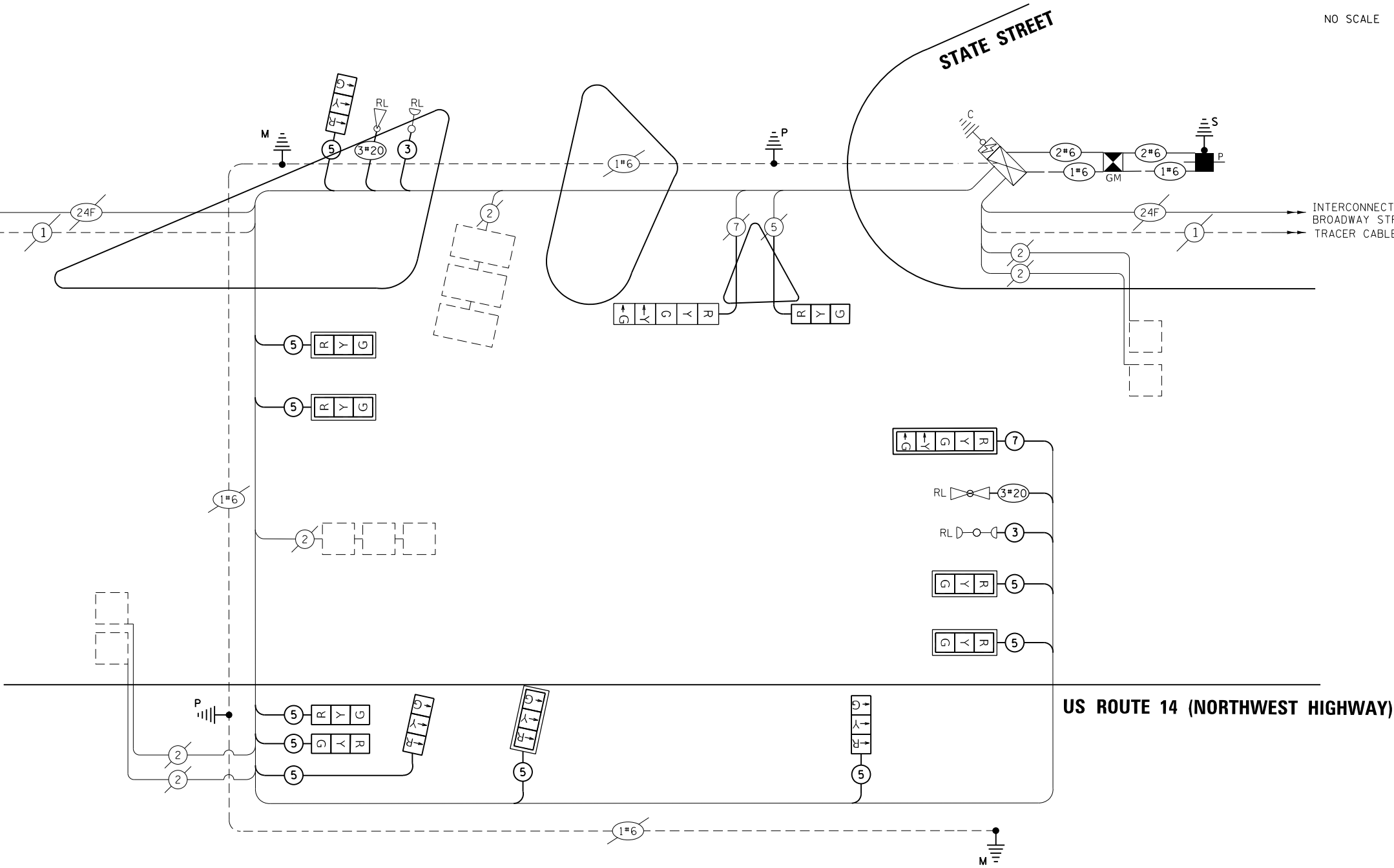
NOTES:

- ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.

ENERGY COSTS - BILLED TO:
CITY OF DES PLAINES
1420 MINER STREET
DES PLAINES, IL 60016

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: 866-639-3532
COMPANY: COM. EDISON
ACCOUNT NUMBER: 14016-32000
METER NUMBER:

CABLE PLAN
(NOT TO SCALE)



TS 13080
EAGLE 7L

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS - INC\Systems - Midwest - Chicago Construction\DOT - PB 204-010 D1 APS PROJECT MANAGEMENT\12356 - WO 10 - North Cook Mast Arm Upgrades\CADD\Sheet Files\DXF\XXXXX\sh-cable.dgn

iteris

USER NAME	= amaravillas
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 5/1/2025

DESIGNED	-	AM	REVISED	-
DRAWN	-	AM	REVISED	-
CHECKED	-	BF	REVISED	-
DATE	-	5/1/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

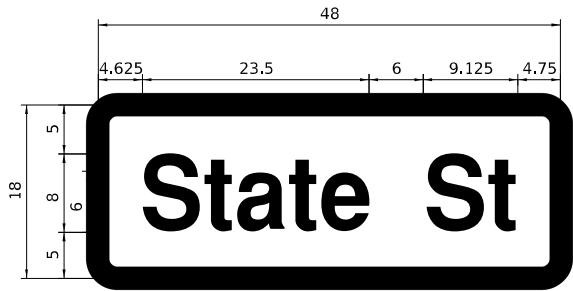
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US ROUTE 14 (NORTHWEST HIGHWAY) AND STATE STREET

SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	39
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1

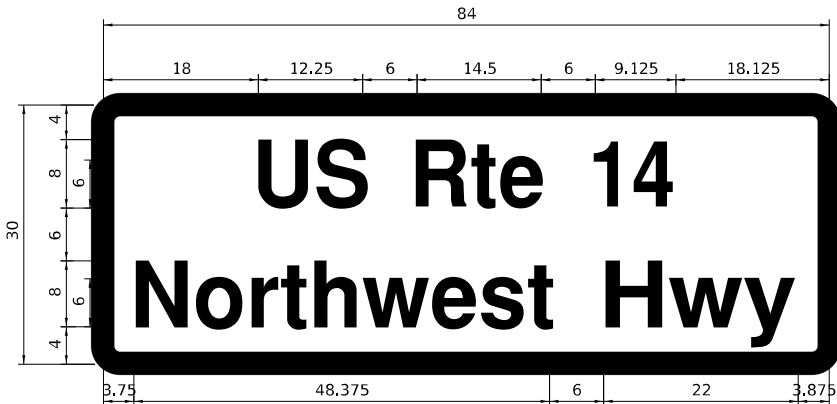
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.00	TYPE 1	ZZ	2

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	17.5	TYPE 2	ZZ	1

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	17.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	17
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	204
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	460
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2427
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	305
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	55
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	305
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	12
DRILL EXISTING HANDHOLE	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2098
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	460
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	77.1
LED SIGNAL FACE, LENS COVER	EACH	13

* 100% OF COST TO THE CITY OF DES PLAINES

TS 13080
EAGLE 7L

iteris

USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 6/17/2025	DATE - 6/17/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES US ROUTE 14 (NORTHWEST HIGHWAY) AND STATE STREET			
SCALE: N.T.S.	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	40
CONTRACT NO. 62W57				
ILLINOIS		FED. AID PROJECT		

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 1 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 1 EACH TRAFFIC SIGNAL POST
- 1 EACH 3-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 5 EACH 3-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 1 EACH OPTICALLY PROGRAMMED 3-SECTION SIGNAL HEAD, MAST-ARM MOUNTED
- 2 EACH OPTICALLY PROGRAMMED 3-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH STREET NAME SIGN PANEL

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

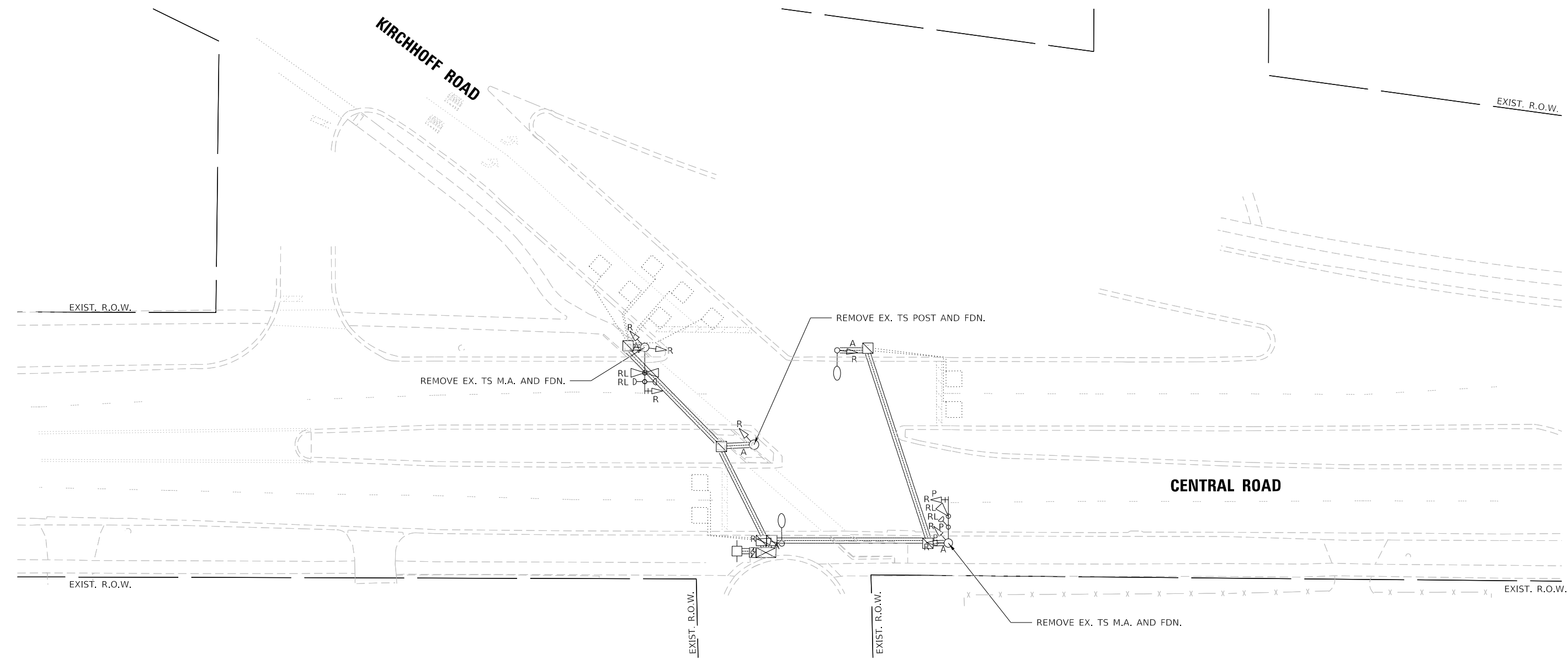
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILTiy TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

RELOCATE EXISTING SIGNAGE:

THE FOLLOWING EXISTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR FROM ALL EXISTING TRAFFIC SIGNAL POSTS AND POLES TO BE REMOVED. THE SIGNAGE SHALL BE SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH ONE-DIRECTIONAL ARROW (W1-6, 48"X24")
- 1 EACH 'EASTBOUND CENTRAL ROAD ←' (CUSTOM, 54"X24")
- 1 EACH RIGHT TURN PROHIBITED (R3-1, 30"X30")
- 1 EACH LEFT TURN PROHIBITED (R3-2, 30"X30")
- 1 EACH DO NOT ENTER (R5-1, 30"X30")



GENERAL NOTES:

- 1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL IS FULLY OPERATIONAL OR AS DIRECTED BY THE IDOT TRAFFIC SIGNAL AREA ENGINEER.
- 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



TS 12615

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS, INC\Systems - Midwest - Chicago Construction\IDOT PTB 204-010 D1 AP5 PROJECT MANAGEMENT\12356 - WO 10 - North Cook Mast Arm Upgrades\CADD\Sheet Files\62W57-sh125.REN.dgn



USER NAME	= amaravilllas	DESIGNED -	AM	REVISED -	
DRAWN -	AM	REVISED -			
PLOT SCALE	= 2,0000 ' / in.	CHECKED -	BF	REVISED -	
PLOT DATE	= 2/28/2025	DATE -	2/28/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL REMOVAL PLAN
CENTRAL ROAD AND KIRCHHOFF ROAD

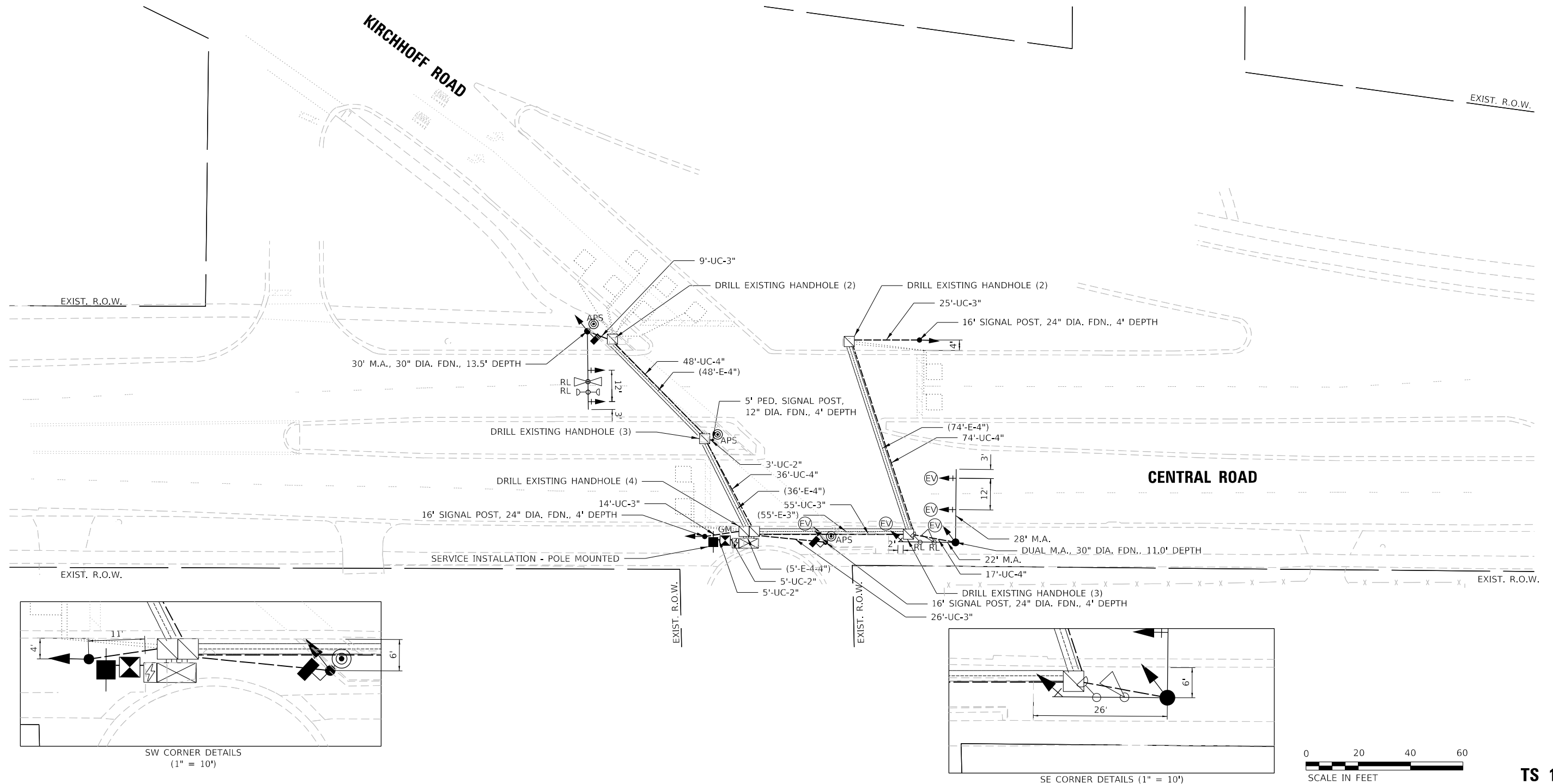
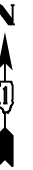
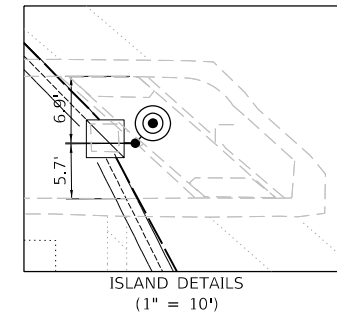
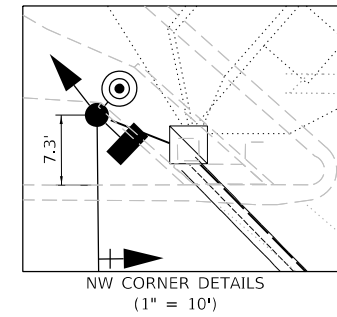
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	41
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

NOTES:

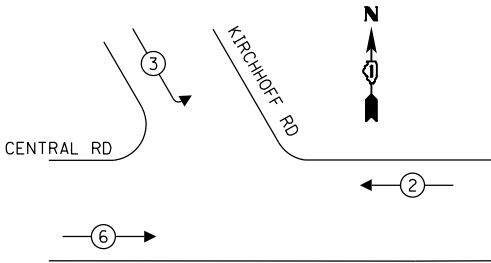
1. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.
2. THE CONTRACTOR SHALL CONFIRM THE FIELD LOCATION OF THE APS EQUIPMENT WITH THE IDOT TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
3. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
4. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

(EV) VISORS SHALL BE INSTALLED ON SIGNAL HEAD

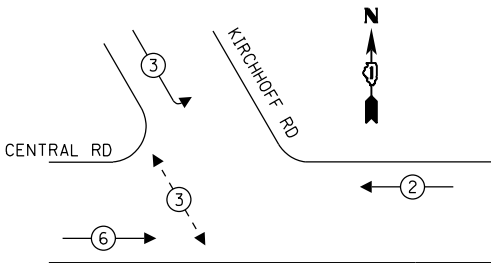


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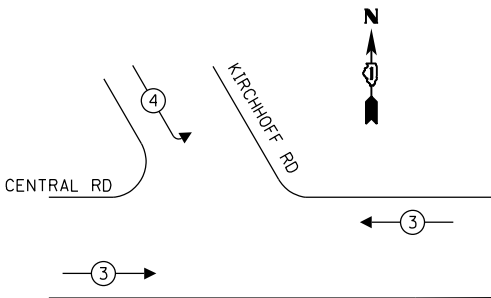
EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE

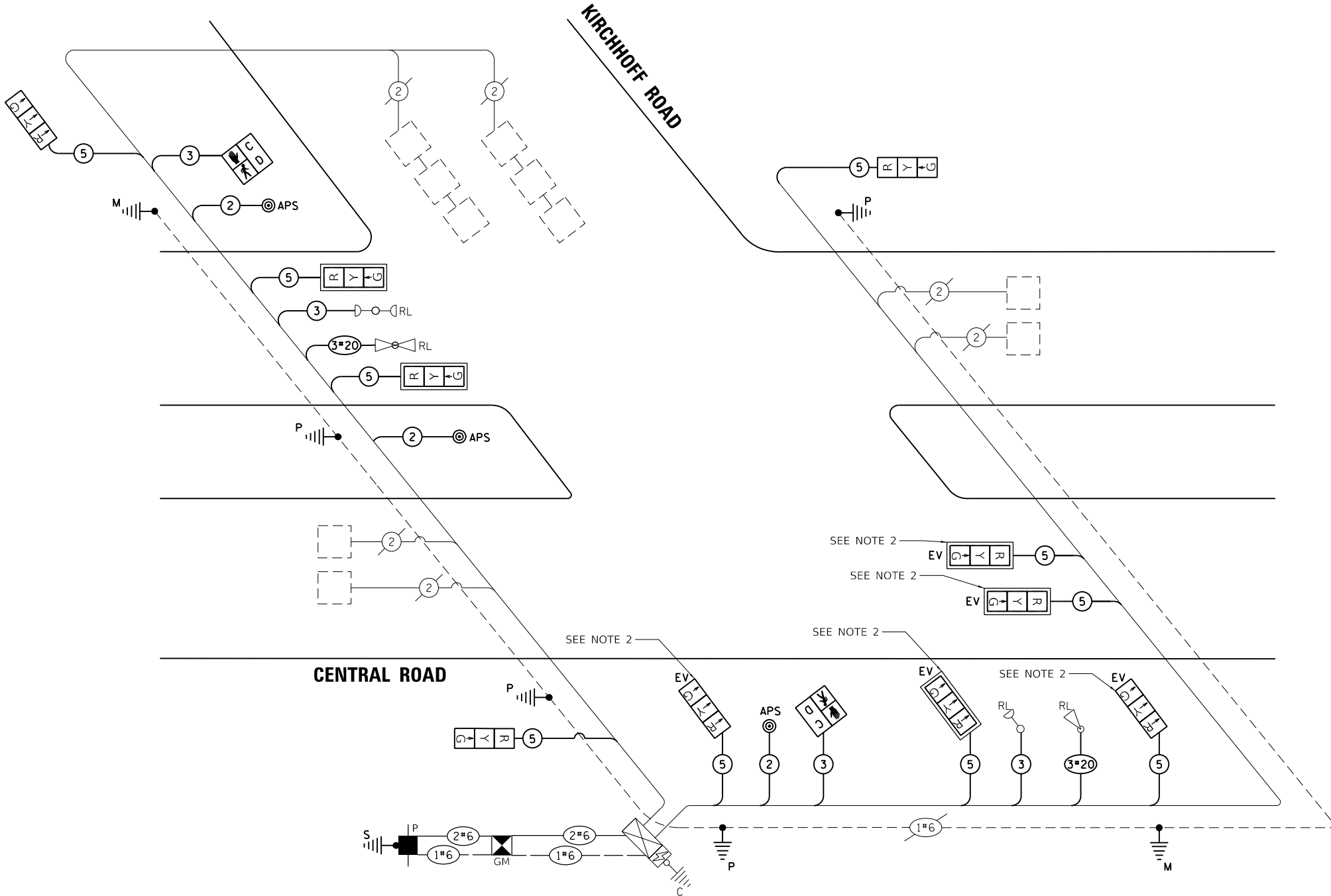
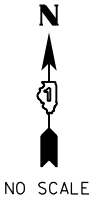


EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← (⊛) — PROTECTED PHASE
- ← - (⊛) - PROTECTED/PERMITTED PHASE
- ← (⊛) → PEDESTRIAN PHASE
- ← (⊛) OL OVERLAP



NOTES:

1. ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER UNLESS OTHERWISE NOTED (SEE NOTE 2).
2. SIGNAL HEAD SHALL BE INSTALLED WITH VISOR AND SHALL USE VISOR HEATER IN LIEU OF LENS COVER.

ENERGY COSTS - BILLED TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: NEW BUSINESS DEPT.
PHONE: 866-639-3532
COMPANY: COM. EDISON
ACCOUNT NUMBER: 70162-00461
METER NUMBER:

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	10	110
	4-SECTION	-	14
	5-SECTION	-	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		315	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		920	

iteris

USER NAME	= amaravillas
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 4/29/2025

DESIGNED	-	AM
DRAWN	-	AM
CHECKED	-	BF
DATE	-	4/29/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
CENTRAL ROAD AND KIRCHHOFF ROAD

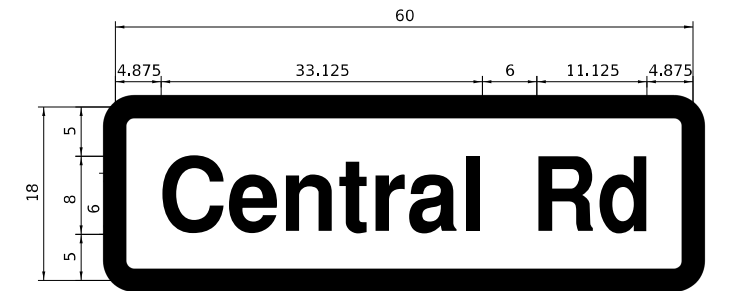
SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	43
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

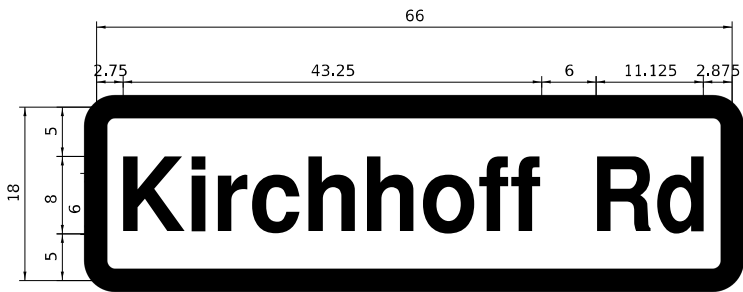
TS 12615

SIGN PANEL – TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.50	TYPE 1	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.25	TYPE 1	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	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	24
RELOCATE SIGN PANEL - TYPE 1	SQ FT	35.75
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	13
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	129
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	175
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	199
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	543
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1522
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	472
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	24.5
DRILL EXISTING HANDHOLE	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	986
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	330
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
LED SIGNAL FACE VISOR HEATER	EACH	5
TEMPORARY INFORMATION SIGNING	SQ FT	77.1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	3
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
LED SIGNAL FACE, LENS COVER	EACH	5
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
* 100% OF COST TO THE VILLAGE OF ARLINGTON HEIGHTS		

MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS, INC\Systems - Midwest - Chicago Construction\UDOT_PTB_204-010_D1_APS_PROJECT_MANAGEMENT\12356 - WO 10 - North Cook Mast Arm Upgrades\CADD\Sheet_Files\DXF\XXXXX\shb-SIGN.dgn



USER NAME	= amaravillas
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 6/17/2025

DESIGNED	-	AM
DRAWN	-	AM
CHECKED	-	BF
DATE	-	6/17/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
CENTRAL ROAD AND KIRCHHOFF ROAD

SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	44
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH TRAFFIC SIGNAL CABINET AND CONTROLLER (COMPLETE)
- 1 EACH UNINTERRUPTED POWER SUPPLY (COMPLETE)
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD, BRACKET MOUNTED
- 4 EACH 5-SECTION SIGNAL HEAD, BRACKET MOUNTED

RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT:

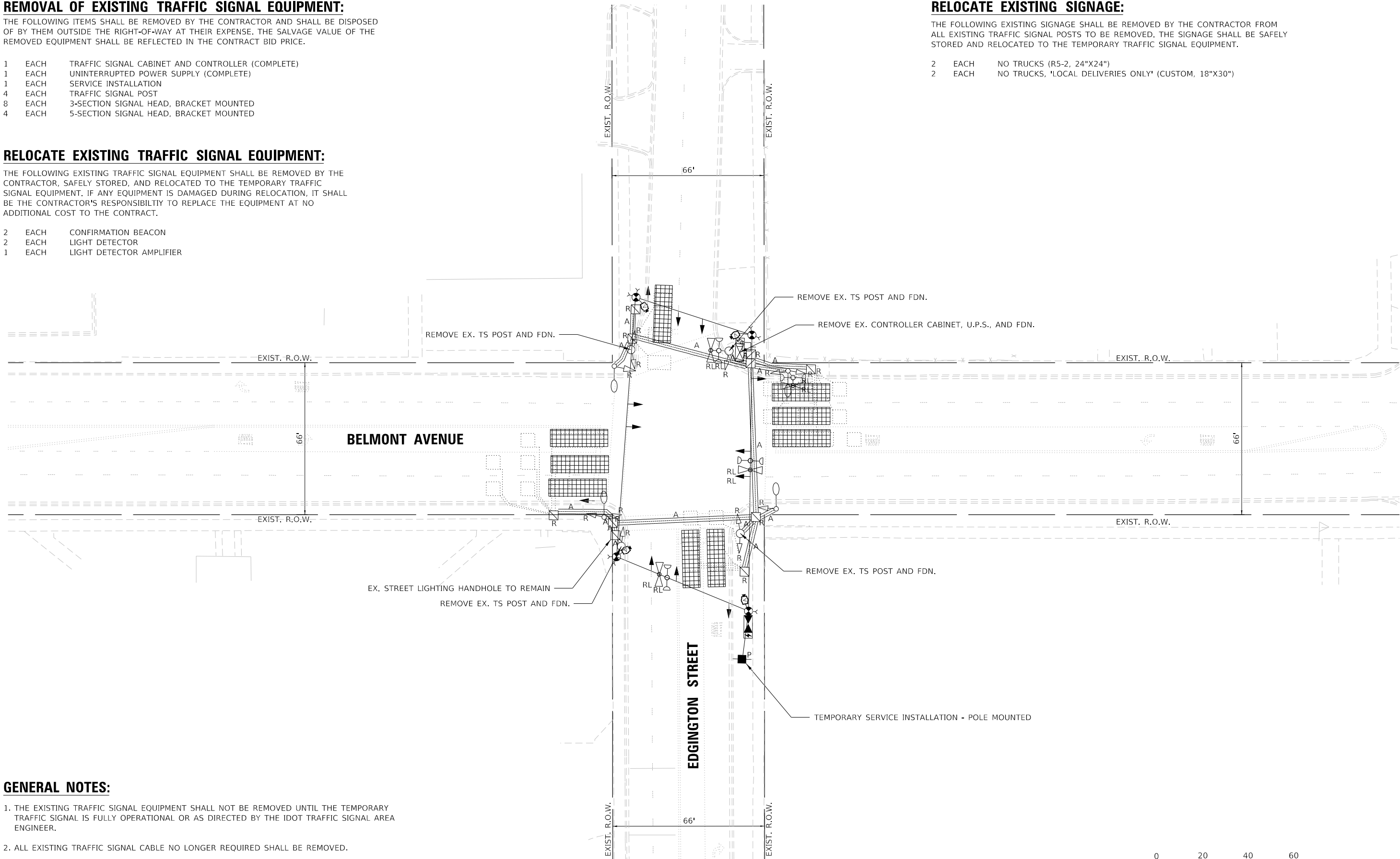
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED, AND RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL EQUIPMENT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILTiy TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

RELOCATE EXISTING SIGNAGE:

THE FOLLOWING EXISTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR FROM ALL EXISTING TRAFFIC SIGNAL POSTS TO BE REMOVED. THE SIGNAGE SHALL BE SAFELY STORED AND RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL EQUIPMENT.

- 2 EACH NO TRUCKS (R5-2, 24"X24")
- 2 EACH NO TRUCKS, 'LOCAL DELIVERIES ONLY' (CUSTOM, 18"X30")



GENERAL NOTES:

- 1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE TEMPORARY TRAFFIC SIGNAL IS FULLY OPERATIONAL OR AS DIRECTED BY THE IDOT TRAFFIC SIGNAL AREA ENGINEER.
- 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
- 3. THE TEMPORARY WOOD POLES SHALL BE LOCATED TO AVOID BURIED UTILITIES. THE CONTRACTOR SHALL FIELD SURVEY THE FINAL LOCATION OF EACH WOOD POLE.



TS 10965



USER NAME	= amaravillas	DESIGNED	-	AM	REVISED	-	
		DRAWN	-	AM	REVISED	-	
PLOT SCALE	= 2,0000 ' / in.	CHECKED	-	BF	REVISED	-	
PLOT DATE	= 4/29/2025	DATE	-	4/29/2025	REVISED	-	

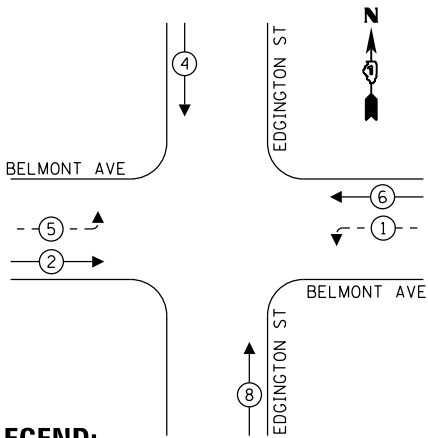
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SIGNAL INSTALLATION PLAN AND
REMOVE EXISTING EQUIPMENT PLAN
BELMONT AVENUE AND EDGINGTON STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	45
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

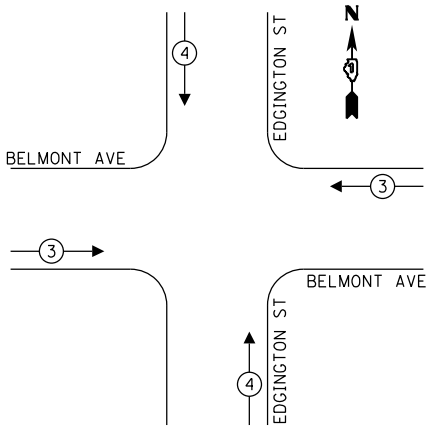
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊙) ← PROTECTED PHASE
- ← - (⊙) - PROTECTED/PERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE
- ← (⊙) OL OVERLAP

TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	8	11
	4-SECTION	-	14
	5-SECTION	4	13
PROGRAMMABLE	3-SECTION	-	22
	4-SECTION	-	32
	5-SECTION	-	28
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTIONRADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		395	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1000	

ENERGY COSTS - BILLED TO:
VILLAGE OF FRANKLIN PARK
9500 BELMONT AVENUE
FRANKLIN PARK, ILLINOIS 60131

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COM. EDISON
ACCOUNT NUMBER: 92876-58000
METER NUMBER:



USER NAME = amaravillas
PLOT SCALE = 100,0000 ' / in.
PLOT DATE = 3/3/2025

DESIGNED - AM
DRAWN - AM
CHECKED - BF
DATE - 3/3/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
BELMONT AVENUE AND EDGINGTON STREET

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	46
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

TS 10965

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.
3. THE CONTRACTOR SHALL CONFIRM THE FIELD LOCATION OF THE APS EQUIPMENT WITH THE IDOT TRAFFIC SIGNAL AREA ENGINEER BEFORE INSTALLATION.
4. THIS LOCATION HAS BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THIS PLAN FOR THE POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.
5. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.
6. INCLUDE A 2" CONDUIT RUN TO 25TH AVENUE FOR PROPOSED FUTURE INTERCONNECT.



(A) R5-2
24" X 24"
SIGN PANEL TYPE I
4 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



(B) R5-2aP
24" X 12"
SIGN PANEL TYPE I
2 REQUIRED



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MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS, INC\Systems - Midwest - Chicago Construction\DOT_PTB_204-010 D1 AP5 PROJECT MANAGEMENT\12356 - WO 10 - North Cook Mast Arm Upgrades\CADD\Sheet Files\62W57-dht-15 MOD.dgn



USER NAME	= amaravillas	DESIGNED	-	AM	REVISED	-
		DRAWN	-	AM	REVISED	-
PLOT SCALE	= 2,0000 ' / in.	CHECKED	-	BF	REVISED	-
PLOT DATE	= 3/3/2025	DATE	-	3/3/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)			
BELMONT AVENUE AND EDGINGTON STREET			
SCALE: 1"=20'	SHEET	OF	SHEETS
STA.		TO STA.	



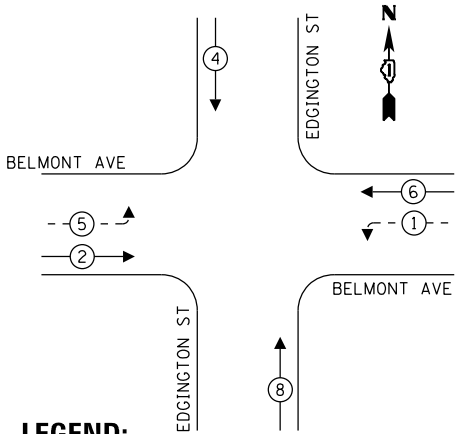
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	48
CONTRACT NO. 62W57				
		ILLINOIS	FED. AID PROJECT	

TS 10965



MODEL: Default
FILE NAME: C:\Sharepoint\ITERIS - INC\Systems - Midwest - Chicago Construction\DOT_PFB_204-010 D1 APS PROJECT MANAGEMENT\12356 - WO 10 - North Cook Mast Arm Upgrades\CADD\Sheet Files\DXXXXXX\sh-cable.dgn

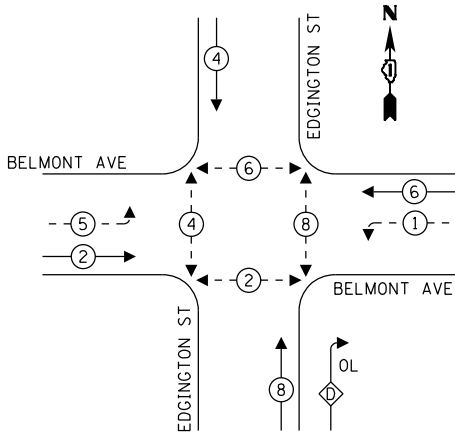
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ←[*] PROTECTED PHASE
- ←-[*]- PROTECTED/PERMITTED PHASE
- ←[*]→ PEDESTRIAN PHASE
- ↗ OL OVERLAP

PROPOSED CONTROLLER SEQUENCE

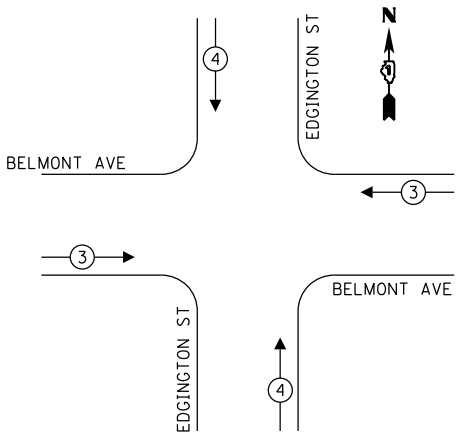


RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



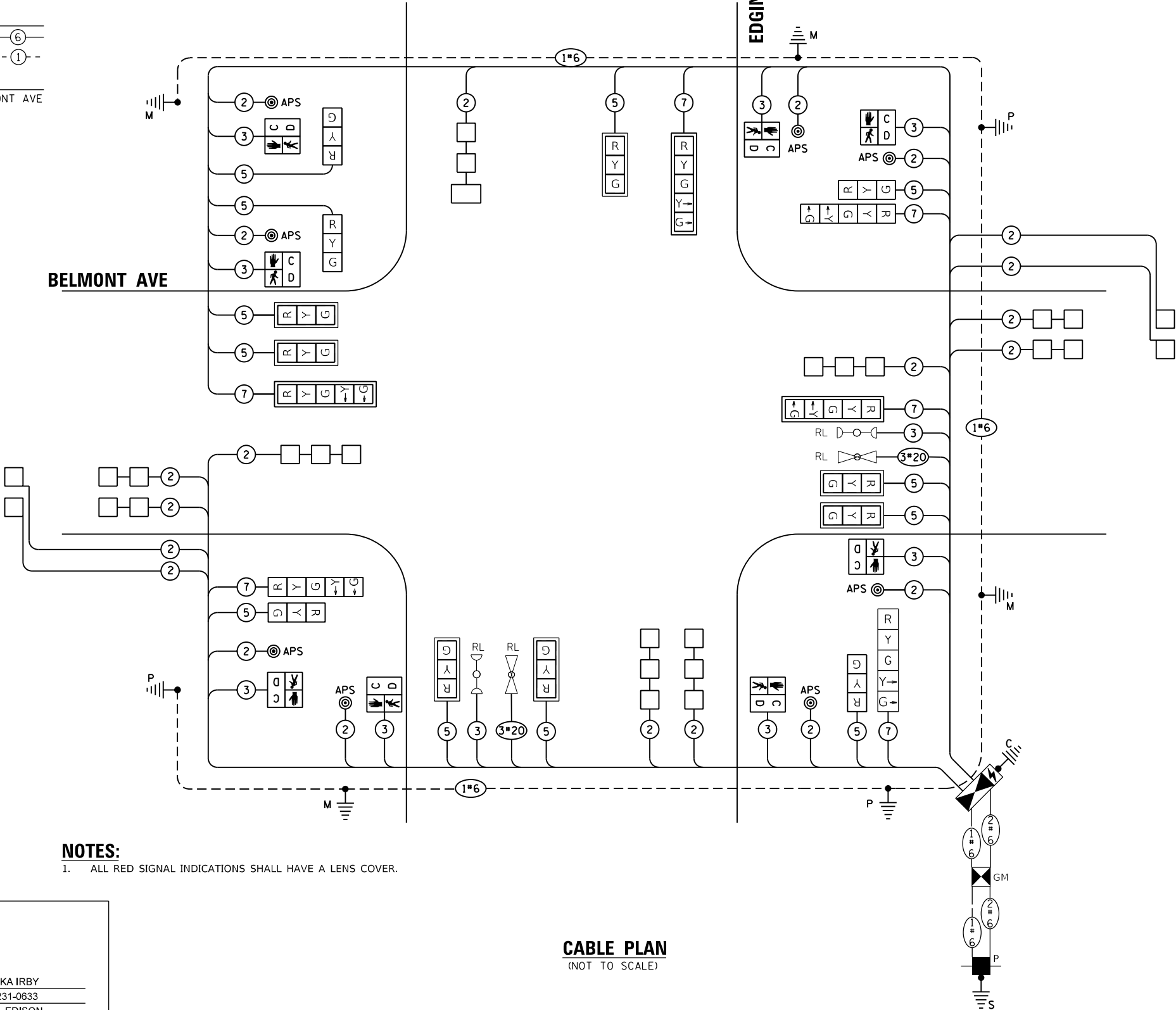
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3-SECTION	12	132
	4-SECTION	-	-
	5-SECTION	6	78
PROGRAMMABLE	3-SECTION	-	-
	4-SECTION	-	-
	5-SECTION	-	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		505	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1110	

ENERGY COSTS - BILLED TO:
VILLAGE OF FRANKLIN PARK
9500 BELMONT AVENUE
FRANKLIN PARK, ILLINOIS 60131

ENERGY SUPPLY: CONTACT: ERICKA IRBY
PHONE: 779-231-0633
COMPANY: COM. EDISON
ACCOUNT NUMBER: 92876-58000
METER NUMBER:

NOTES:

- ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER.



CABLE PLAN
(NOT TO SCALE)

iteris

USER NAME	= amaravillas
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 4/10/2025

DESIGNED	- AM
DRAWN	- AM
CHECKED	- BF
DATE	- 4/10/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
BELMONT AVENUE AND EDGINGTON STREET

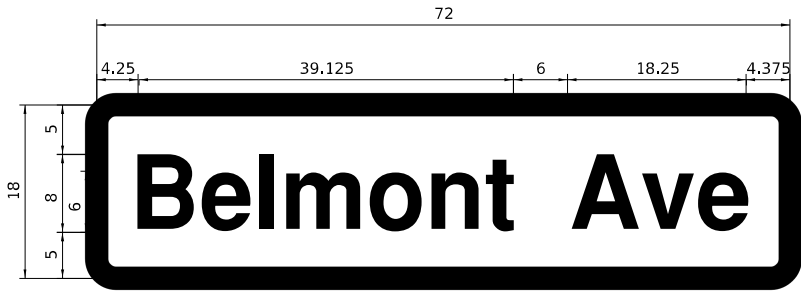
SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	49
CONTRACT NO. 62W57				
ILLINOIS FED. AID PROJECT				

TS 10965

SIGN PANEL – TYPE 1

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	TYPE 1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	TYPE 1	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	UNIT	QTY.
SIGN PANEL - TYPE 1	SQ FT	56
RELOCATE SIGN PANEL - TYPE 1	SQ FT	15.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	932
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	46
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	389
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1021
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1264
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1827
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	869
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2291
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	90
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	568
TRAFFIC SIGNAL POST, 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	13
DETECTOR LOOP, TYPE I	FOOT	916
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1688
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	382
UNINTERRUPTABLE POWER SUPPLYAND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
TEMPORARY INFORMATION SIGNING	SQ FT	102.8
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LED SIGNAL FACE, LENS COVER	EACH	18
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% OF COST TO THE VILLAGE OF FRANKLIN PARK

TS 10965

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iteris

USER NAME = amaravillas	DESIGNED - AM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - BF	REVISED -
PLOT DATE = 6/17/2025	DATE - 6/17/2025	REVISED -

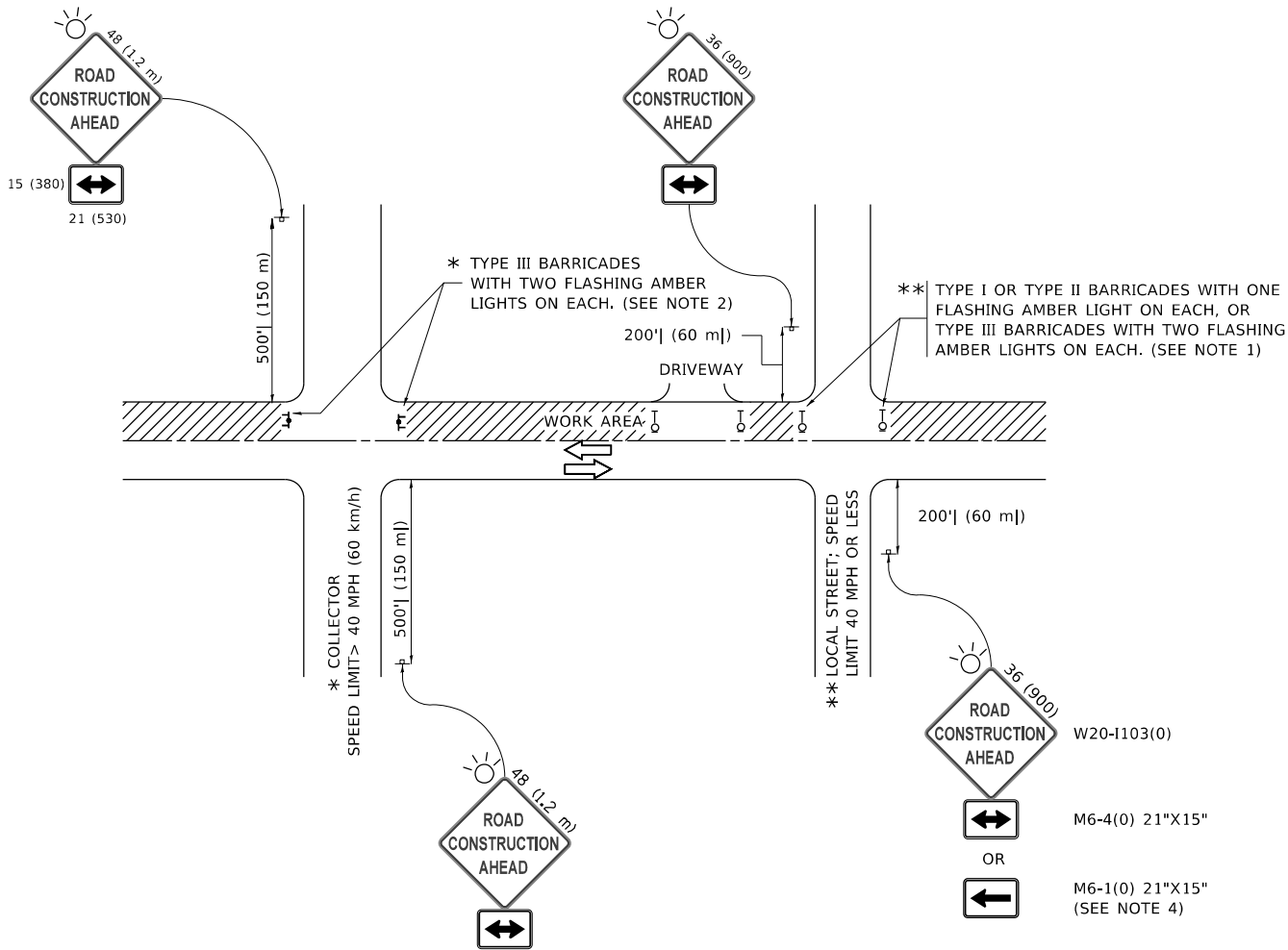
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
BELMONT AVENUE AND EDGINGTON STREET

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		COOK	52	50
		CONTRACT NO. 62W57		
		ILLINOIS	FED. AID PROJECT	

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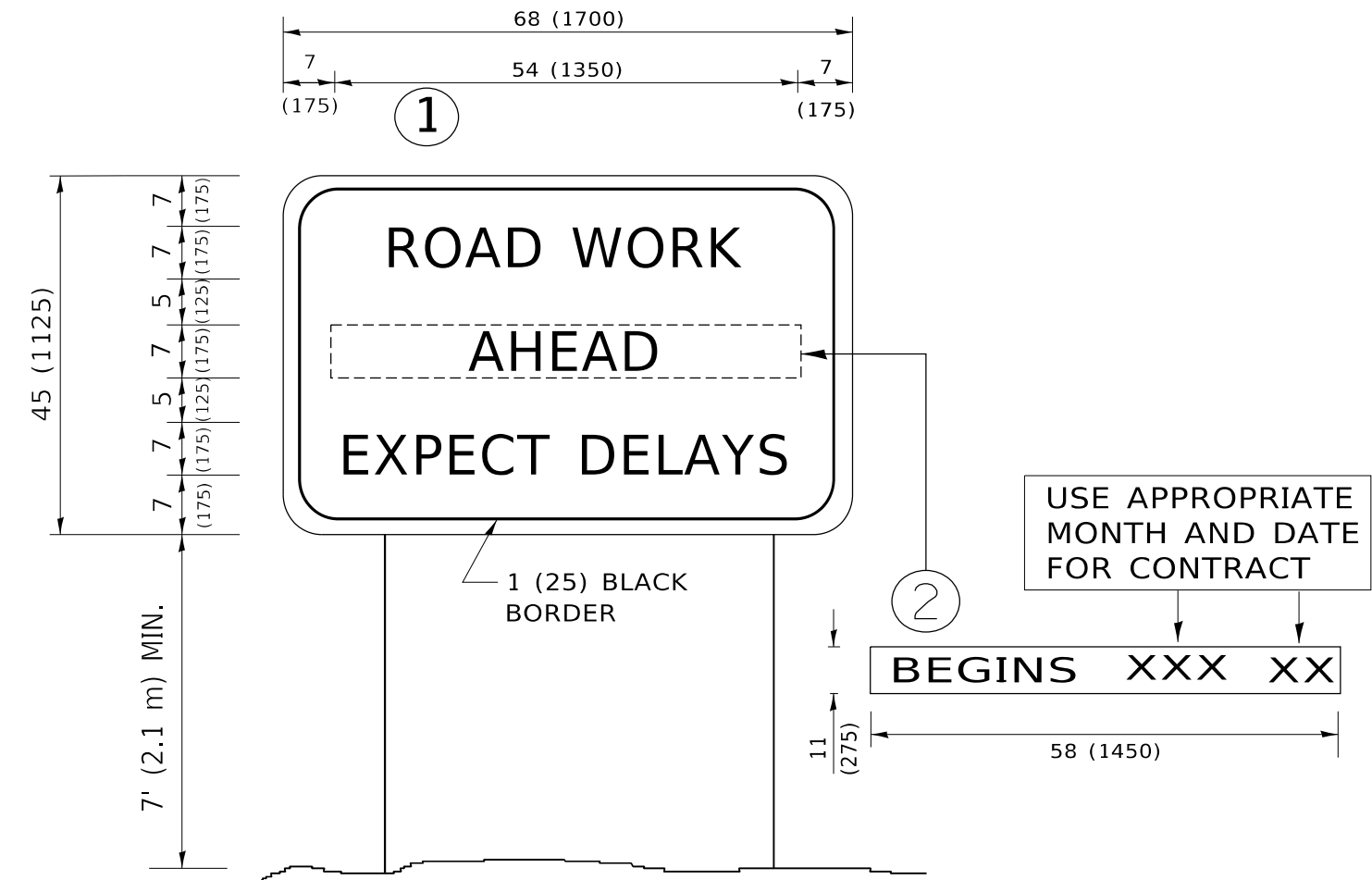
NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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 BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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
- 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.
- 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 = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - T. RAMMACHER 01-06-00								52	51
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13					TC-10		CONTRACT NO.		
	PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16					ILLINOIS FED. AID PROJECT				
					SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.			

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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 SIGN①WITH INSTALLED PANEL②ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL②SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

	USER NAME = footem]	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97								52	52
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99					TC-22		CONTRACT NO.		
	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07					ILLINOIS FED. AID PROJECT				
					SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.			