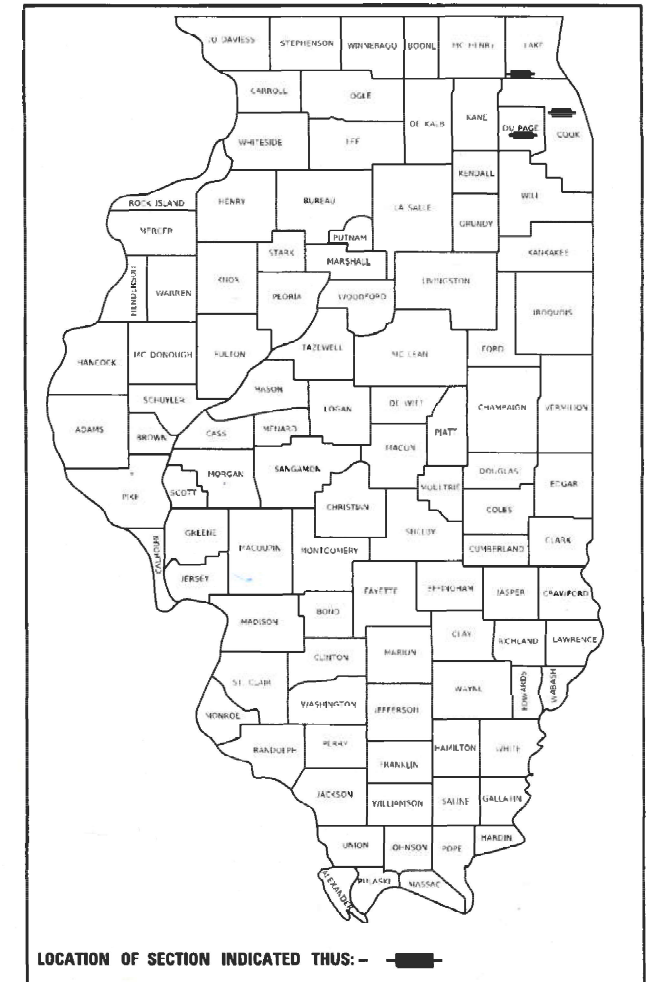


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	FAP 311-22-TS *	VAR	71	1
		ILLINOIS	CONTRACT NO. 62U21	

* 2024-1011-TS,I,N,SW

D-91-016-23



FOR INDEX OF SHEETS, SEE SHEET NO. 2

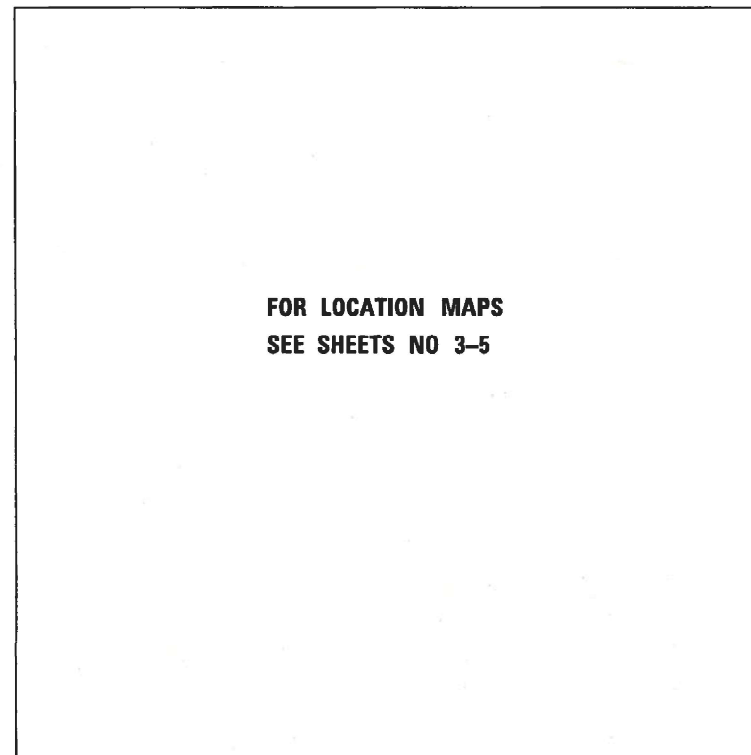
IMPROVEMENT IS LOCATED IN THE VILLAGES OF
WESTERN SPRINGS, DOWNERS GROVE, BARRINGTON
AND UNINCORPORATED PROVISO TOWNSHIP

PROPOSED HIGHWAY PLANS

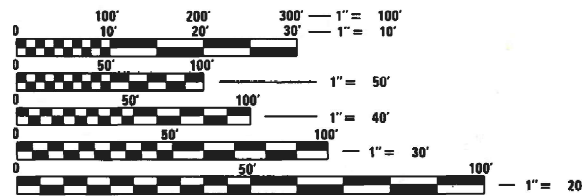
1-3) FAP ROUTE 311: US 34 (OGDEN AVENUE)
AT WOLF ROAD, SARATOGA AVENUE AND MAIN STREET
4) FAP ROUTE 338: IL ROUTE 59 (HOUGH STREET)
AT MAIN STREET

SECTION: ~~FAP 311-22-TS~~ 2024-1011-TS,I,N,SW
ADA IMPROVEMENTS, PAVEMENT MARKING
AND TRAFFIC SIGNAL MODERNIZATION
PROJECT: HSIP-KBWQ(375)
VARIOUS COUNTIES

C-91-024-23



FOR LOCATION MAPS
SEE SHEETS NO 3-5



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

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

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580
PROJECT MANAGER: ALAIN MIDY (847) 221-3056

CONTRACT NO. 62U21

VARIOUS TOWNSHIPS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 28, 2024
[Signature]
REGIONAL ENGINEER

August 16, 2024
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3-5	LOCATION MAPS
6-14	SUMMARY OF QUANTITIES
15-16	EXISTING AND PROPOSED TYPICAL SECTIONS
17	ALIGNMENT, TIES AND BENCHMARKS
18	EXISTING AND PROPOSED ROADWAY PLANS AND PROFILE
19-21	PLAT OF HIGHWAYS
22	PAVEMENT MARKING PLANS
23-56	TRAFFIC SIGNAL PLANS
57-65	LIGHTING PLANS
66	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
67	TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
68	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
69	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
70	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
71	ARTERIAL ROAD INFORMATION SIGN (TC-22)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TME OPERATIONS
701501-06	LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	USING SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
720001-01	SIGN PANEL MOUNTING DETAILS
814001-03	HANDHOLES
814006-03	DOUBLES HANDHOLES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
877011-10	STEEL COMBO MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASH BEACON INSTALL
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF WESTERN SPRINGS, DOWNERS GROVE AND BARRINGTON
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE (or TOLLWAY) PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT (or ISTHA)
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING OF MATERIALS AND BEGINNING OF CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGHTS.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAH-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAH-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

UNION PACIFIC RAILROAD GENERAL NOTES

- WITHIN THESE NOTES, THE UNION PACIFIC RAILROAD SHALL BE REFERRED TO AS THE "RAILROAD".
- A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- NO DISRUPTIONS OF RAILROAD OPERATIONS WILL BE PERMITTED.
- ALL WORK WITHIN 25 FEET OF THE NEAREST TRACK WILL REQUIRE A RAILROAD FLAGMAN. TO SCHEDULE A FLAGMAN FOR WORK ON A COMMUTER LINE, CALL CANDICE MILLER AT (312) 496-4738, A MINIMUM 72 HOURS IN ADVANCE OF START OF WORK. TO SCHEDULE A FLAGMAN FOR WORK ON FREIGHT LINES, CALL DARYL CLARK AT (708) 649-5273, A MINIMUM OF 72 HOURS IN ADVANCE OF START OF WORK.
- NO UN-USED WORK EQUIPMENT WILL BE ALLOWED TO REMAIN ON THE RAILROAD'S COMMUTER PLATFORM IF PRESENT.
- RAILROAD UTILITIES ARE NOT INCLUDED UNDER JULIE. CALL CANDICE MILLER AT (312) 496-4738 FOR LOCATES.
- FIBER OPTICS MAY BE PRESENT IN THIS AREA. CALL (800) 336-9193 TO COORDINATE ANY REQUIRED PROTECTION OR RELOCATION, PRIOR TO CONSTRUCTION.
- RAILROAD REVIEW AND APPROVAL OF SHORING, DEMOLITION, ERECTION, AND FALSEWORK IS REQUIRED. THE COST OF SUCH REVIEWS IS NOT CONSIDERD REIMBURSEABLE TO THE CONTRACTOR PER SECTION 105.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTIONS TO RAILROAD'S OPERATIONS. ERECTION OVER THE RAILROAD'S TRACK SHALL BE DEVELOPED SUCH THAT IT ENABLES THE TRACK(S) TO REMAIN OPEN TO TRAIN TRAFFIC PER RAILROAD'S REQUIREMENTS.
- FOR RAILROAD COORDINATION PLEASE REFER TO THE INTRUCTIONS ON THE WWW.UPRR.COM.
- THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SETTLEMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
- THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.

GENERAL NOTES CONTINUED

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

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, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

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

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

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

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

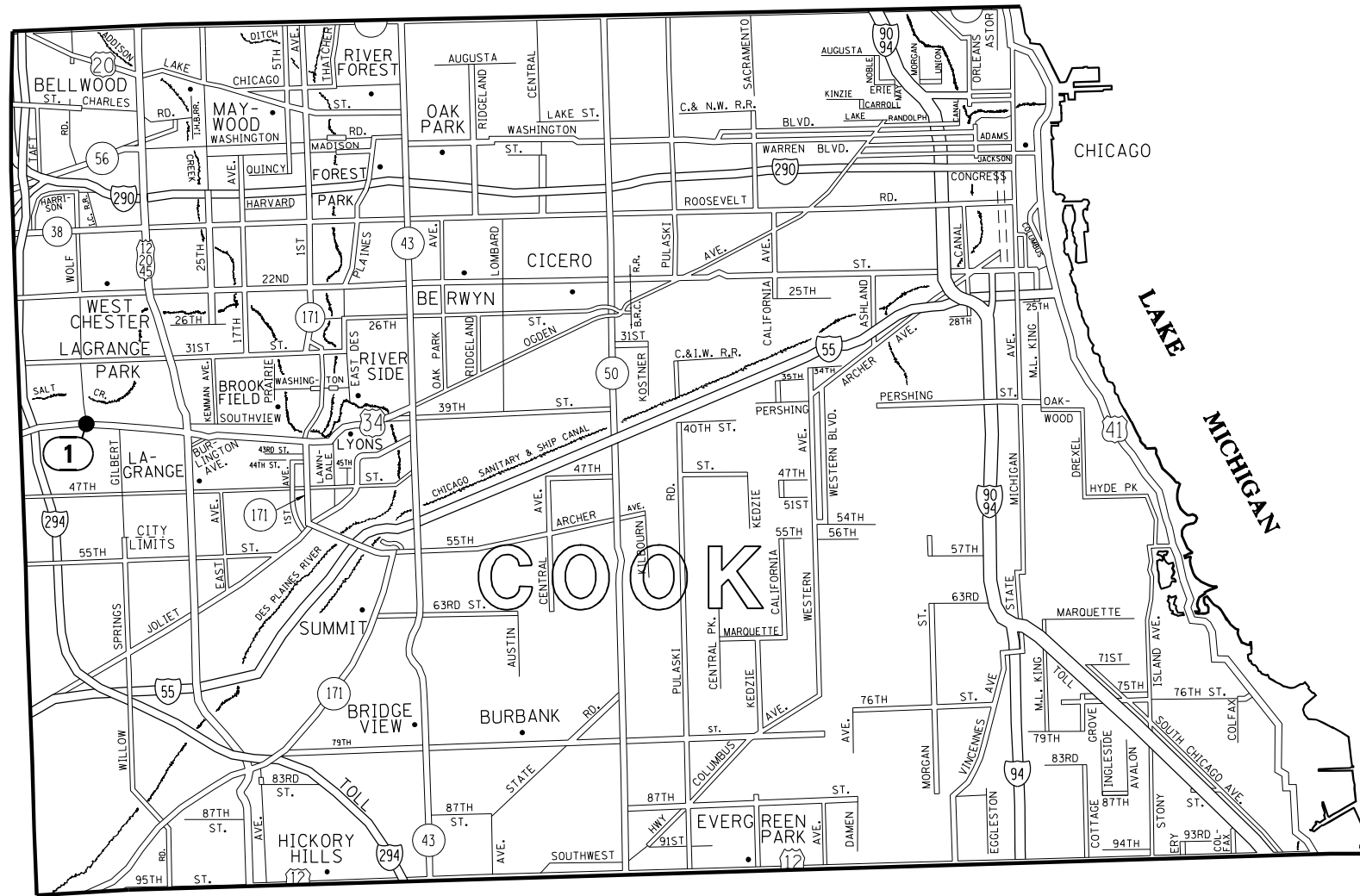
LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATIONS FROM THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO ENSURE ADA COMPLIANCE.

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

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

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PLOT DATE = 7/10/2024	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62U21				
	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



LOCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY
1	1480	US RTE 34 (OGDEN AVE) AT WOLF RD	WESTERN SPRINGS

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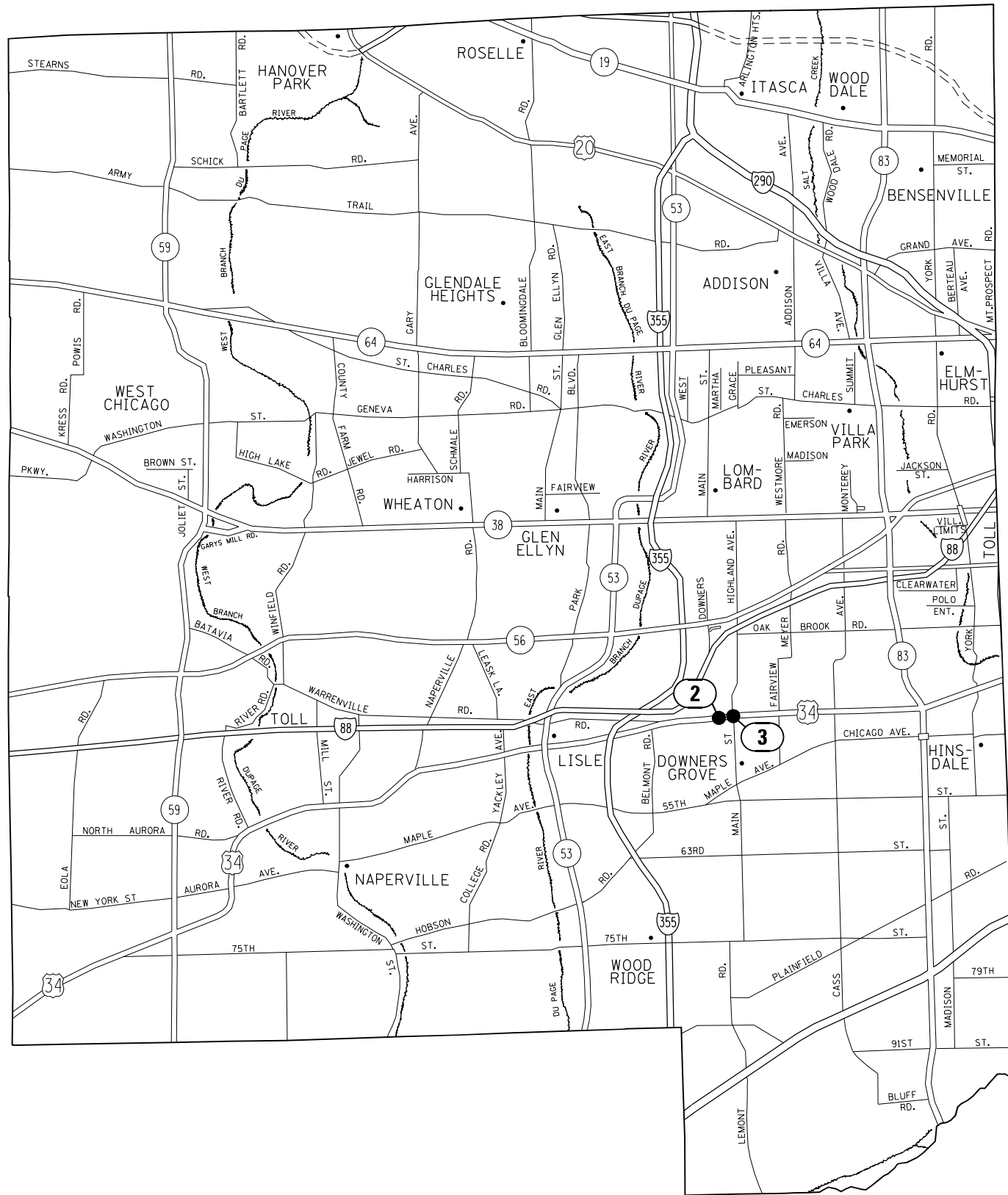
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	DATE - 6/28/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP (SHEET 1 OF 3)
COOK COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U21	



LOCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY
2	11420	US RTE 34 (OGDEN AVE) AT SARATOGA AVE	DOWNERS GROVE
3	11425	US RTE 34 (OGDEN AVE) AT MAIN ST	DOWNERS GROVE

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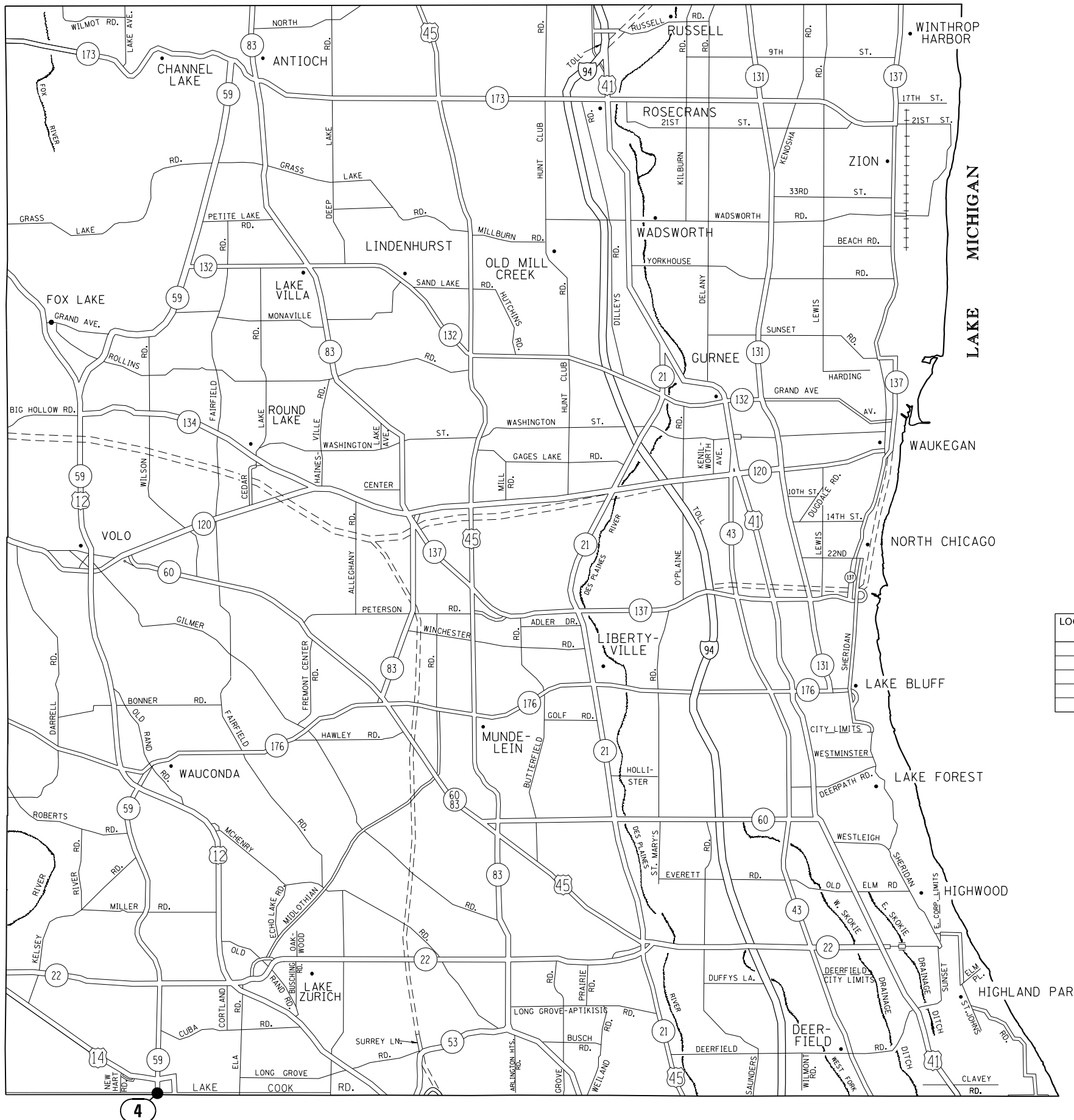
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PLOT DATE = 6/26/2024	DATE - 6/28/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP (SHEET 2 OF 3)
DUPAGE COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	DUPAGE	71	4
			CONTRACT NO. 62U21	
		ILLINOIS	FED. AID PROJECT	



LOCATION NO.	TS NO.	INTERSECTION NAME	MUNICIPALITY
4	11280	IL RTE 59 (HOUGH ST) AT MAIN ST	BARRINGTON

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	DATE - 6/28/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP (SHEET 3 OF 3)
LAKE COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 338	SECTION FAP 311 22 T5	COUNTY LAKE	TOTAL SHEETS 71	SHEET NO. 5
			CONTRACT NO. 62U21	
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE																								
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (002) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (002) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. 2.5% DUPAGE COUNTY TS (002) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (002) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021															
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 12	FOOT	75	75																								
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	355	250					40	40		25																
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	1					1	1		1																
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.25					0.25	0.25		0.25																
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.25					0.25	0.25		0.25																
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	12	5					3	3		1																
67100100	MOBILIZATION	L SUM	1	0.25					0.25	0.25		0.25																
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.25					0.25	0.25		0.25																
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.25					0.25	0.25		0.25																
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25					0.25	0.25		0.25																
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.25					0.25	0.25		0.25																
70300100	SHORT TERM PAVEMENT MARKING	FOOT	500	500																								
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	167	167																								

* SPECIALTY ITEM

FILE NAME =		USER NAME = Fritz.Gullraume		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES					SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
DRAWN		CHECKED		REVISED		VAR									FAP 311 22 TS		VAR		71	6
PLOT SCALE = 100,0000 / 1/16"		DATE		REVISED		CONTRACT NO. 62U21									FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT			
PLOT DATE = 7/10/2024				DATE				SCALE:		SHEET NO. OF SHEETS STA.			TO STA.							

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (0021) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @ WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (0021) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. 2.5% DUPAGE COUNTY TS (0021) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (0021) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021											
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	110	110																				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	10500	10500																				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	850	850																				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	450	450																				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	150	150																				
* 72000100	SIGN PANEL - TYPE 1	SO FT	39.5		11			18	10.5															
* 72000200	SIGN PANEL - TYPE 2	SO FT	75		25			25	25															
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	110	110																				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10500	10500																				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	850	850																				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	450	450																				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150																				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	130	130																				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	120	120																				

* SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																						
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (0021) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @ WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (0021) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. 2.5% DUPAGE COUNTY TS (0021) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (0021) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021													
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	10200	10200																						
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2143		822		461		245	453		162														
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	378		181				114	83																
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1295		578				308	409																
81400100	HANDHOLE	EACH	5		2					2		1														
81400200	HEAVY-DUTY HANDHOLE	EACH	9		5				2	2																
81400300	DOUBLE HANDHOLE	EACH	5		3				1	1																
81603072	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	480					480																		
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	160					160																		
81800200	AERIAL CABLE, 2-1/C NO. 4 WITH MESSENGER WIRE	FOOT	200					200																		
82110006	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION F	EACH	4					4																		
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	16					16																		

FILE NAME =	USER NAME = Fritz.Gulloume	DESIGNED -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	FAP 311 22 TS	VAR	71	8
			CONTRACT NO. 62U21	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (0021) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (0021) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. 2.5% DUPAGE COUNTY TS (0021) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (0021) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021									
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	2				1					1										
	INSTALLATION																					
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3				1	1	1													
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2815				2815															
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2820	460				1060	1300													
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4488	488	925			1115	1355	605												
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5615	1885				1565	2165													
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5285	1990				1280	2015													
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5139	2634				940	1565													
87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	623								623											
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	430	95				335														
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1984	669				695	620													

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																					
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (0021) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @ WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (0021) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DUPAGE COUNTY TS (0021) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (0021) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021												
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	11	4				4	3																
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1					1																	
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1					1																	
87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	2					1	1																
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1					1																	
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1						1																
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	3	2					1																
87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1						1																
87700400	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1	1																					
87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1	1																					
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	44	20				20	4																
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4																					
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50.5					37	13.5																
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	93	39				13	41																
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21	21																					

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 PLOT DATE = 7/10/2024

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FAP 311 22 TS	VAR.	71	10
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U21	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (0021) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (0021) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. COUNTY TS (0021) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (0021) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021									
87900200	DRILL EXISTING HANDHOLE	EACH	26				1		16	8		1										
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	20	6					6	8												
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10	3					4	3												
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	14	5					4	5												
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	14	5					4	5												
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16						8	8												
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	34	11					10	13												
88500100	INDUCTIVE LOOP DETECTOR	EACH	23	11					6	6												
88600100	DETECTOR LOOP, TYPE I	FOOT	2025	1553					204	268												
88700200	LIGHT DETECTOR	EACH	4									4										
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2									2										
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3	1					1	1												
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2	2																		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FAP 311 22 TS	VAR.	71	11
			CONTRACT NO. 62U21	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																				
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (002) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (002) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. COUNTY TS (002) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (002) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021											
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1									1												
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	ACH	4			4																		
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2			1							1											
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6936				5476		1105	355														
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1835						585	1250														
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4		1				1	1		1												
89502378	REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1						1															
89502380	REMOVE EXISTING HANDHOLE	EACH	23		11				3	9														
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1																			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	24		10				8	6														
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1530			925						605												
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1910				1910																	
X8302141	TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	1					1																

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	FAP 311 22 TS	VAR	71	12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U21	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (0021) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE TS (0021) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. 2.5% DUPAGE COUNTY TS (0021) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (0021) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021									
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2	1				1														
X1400341	REMOVAL OF LUMINAIRE, SALVAGE	EACH	20					20														
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	5					2	3													
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	3				3	3		3											
X8100863	INTERCEPT EXISTING CONDUIT	EACH	1						1													
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1					1														
X8440102	RELOCATE EXISTING LUMINAIRE	EACH	1					1														
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	2					1	1													
X8570233	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1	1																		
X8571315	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)	EACH	1								1											
X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1	1																		
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	2					1	1													
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2841				2841															

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FAP 311 22 TS	VAR.	71	13
			CONTRACT NO. 62U21	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

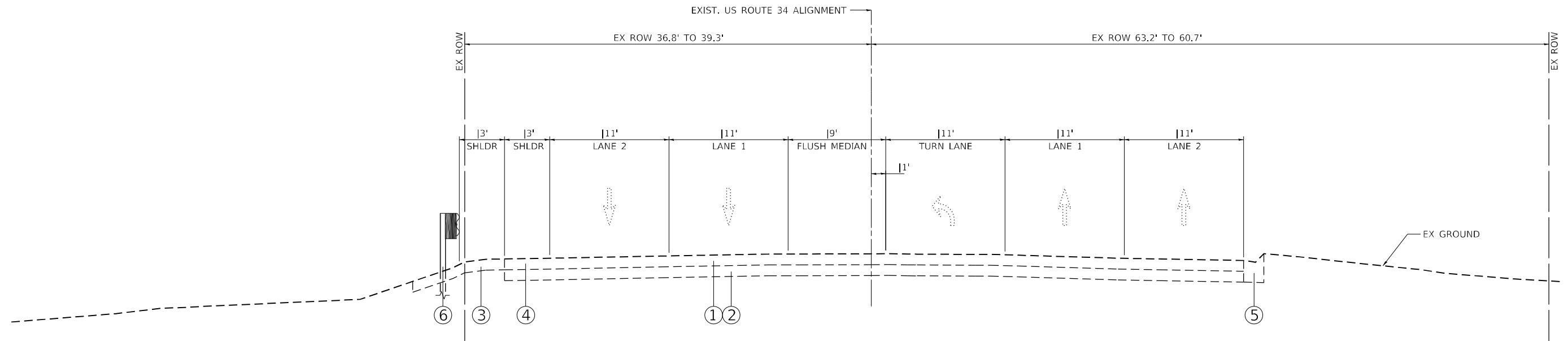
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT		90% FED 10% STATE ROADWAY 0004	90% FED 10% STATE TS (0021) US 34 @ WOLF RD.	100% VILLAGE OF WESTERN SPRINGS EVP 0021	90% FED 10% STATE INTER CONNECT 0021 US 34 @WOLF RD.	90% FED 10% STATE LIGHTING 0021 US 34 @ WOLF RD.	90% FED 5% STATE 5% DOW. GR. TS (0021) US 34 @ SARATOGA	90% FED 5% STATE 2.5% DOW. GR. 2.5% DUPAGE COUNTY TS (0021) US 34 @ MAIN	100% VILLAGE OF DOW. GR. EVP 0021	90% FED 10% STATE TS (0021) IL 59 @ MAIN ST.	100% VILLAGE OF BARRINGTON EVP 0021									
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	20	4				8	8													
X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1				1															
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20					8	12													
X8809005	LED SIGNAL FACE, LENS COVER	EACH	58	19				18	21													
X8891009	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	4					2	2													
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.25				0.25	0.25		0.25											
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	205.6					25.7	77.1		102.8											
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	20				20															
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6				6															
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2					1	1													
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1				1															
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1								1											
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1																		

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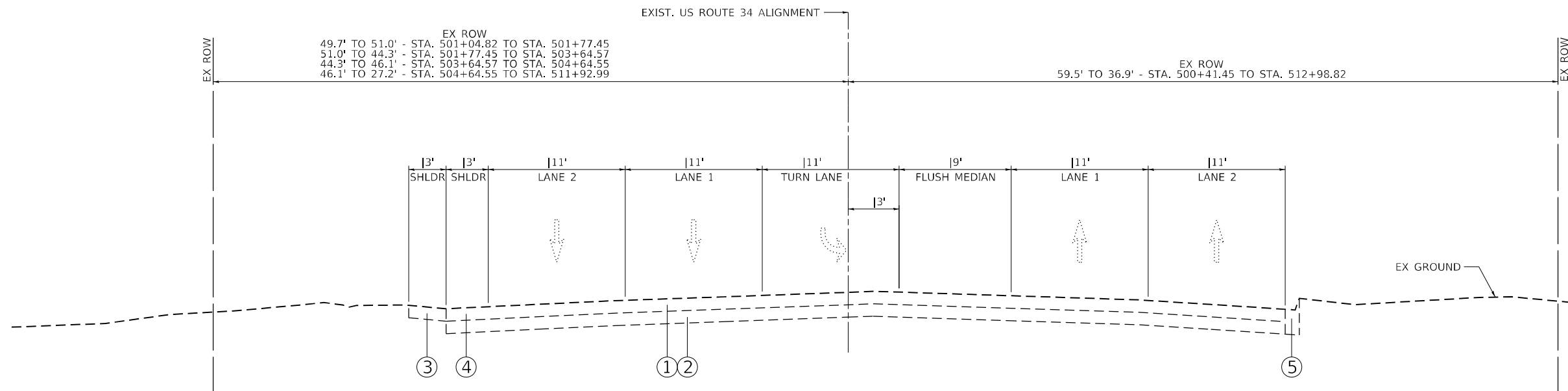
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	FAP 311 22 TS	VAR.	71	14
			CONTRACT NO. 62U21	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- EXISTING US 34**
 STA. 497+37.00 TO STA. 499+50.00
- ① EX HMA SURFACE COURSE
 - ② EX BASE COURSE
 - ③ EX AGGREGATE SHOULDER
 - ④ EX PAVED SHOULDER
 - ⑤ EX B-6.12 CURB & GUTTER
 - ⑥ EX GUARDRAIL



- EXISTING US 34**
 STA. 500+50.00 TO STA. 502+16.00
- ① EX HMA SURFACE COURSE
 - ② EX BASE COURSE
 - ③ EX AGGREGATE SHOULDER
 - ④ EX PAVED SHOULDER
 - ⑤ EX B-6.12 CURB & GUTTER

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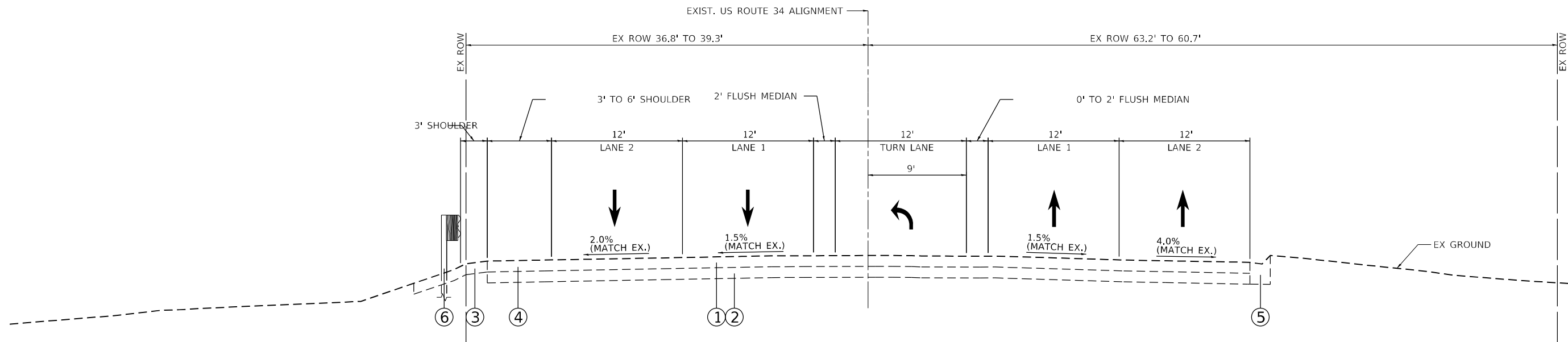
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 34 AT WOLF RD
TYPICAL SECTIONS

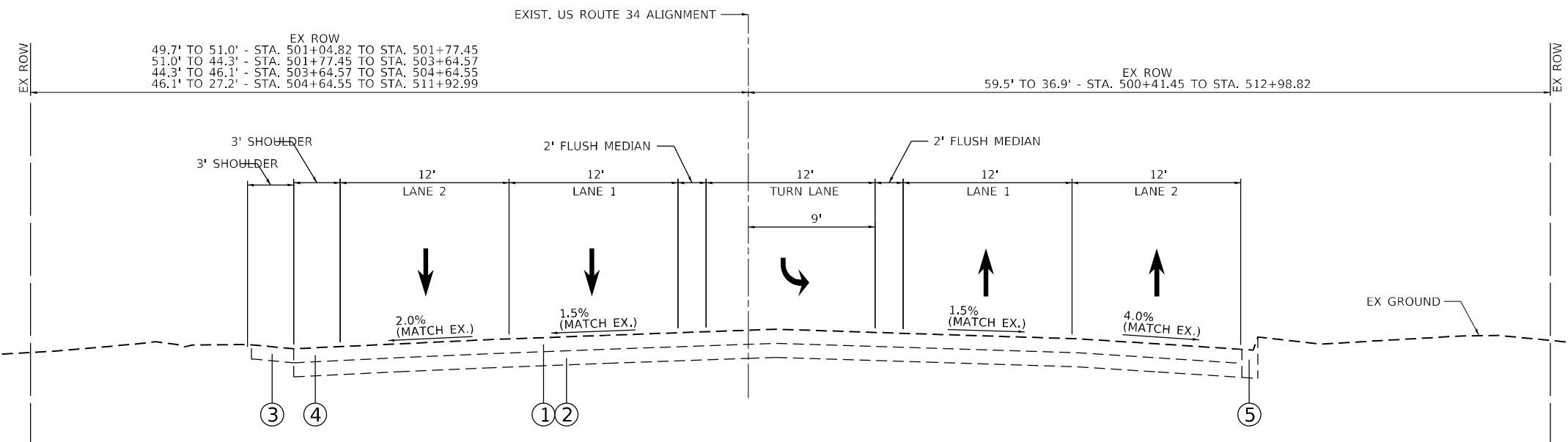
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	15
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				



PROPOSED US 34
 STA. 497+37.00 TO STA. 499+50.00

- ① EX HMA SURFACE COURSE ④ EX PAVED SHOULDER
- ② EX BASE COURSE ⑤ EX B-6.12 CURB & GUTTER
- ③ EX AGGREGATE SHOULDER ⑥ EX GUARDRAIL



PROPOSED US 34
 STA. 500+50.00 TO STA. 502+16.00

- ① EX HMA SURFACE COURSE ④ EX PAVED SHOULDER
- ② EX BASE COURSE ⑤ EX B-6.12 CURB & GUTTER
- ③ EX AGGREGATE SHOULDER

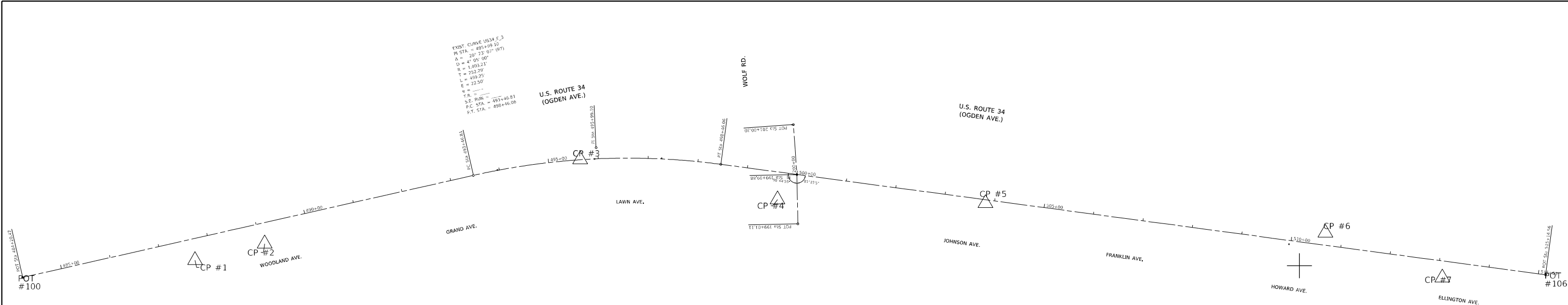
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 DATE: 7/3/2024

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PLOT DATE = 7/3/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 34 AT WOLF RD TYPICAL SECTIONS	
SCALE: NONE	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 16
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				



BENCHMARK #1

ELEV. = 653,103
 "X" - CUT IN N.W. BOLT ON F.H.
 @ S.E. CORNER WOODLAWN & U.S. 34

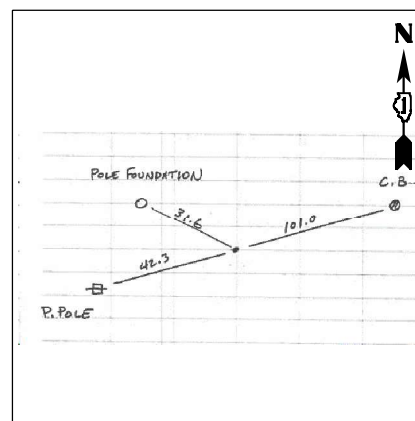
BENCHMARK #2

ELEV. = 655,493
 □ - CUT IN N.E. CORNER TCB @ S.W.
 COR. US. 34 & WOLF RD.

BENCHMARK #3

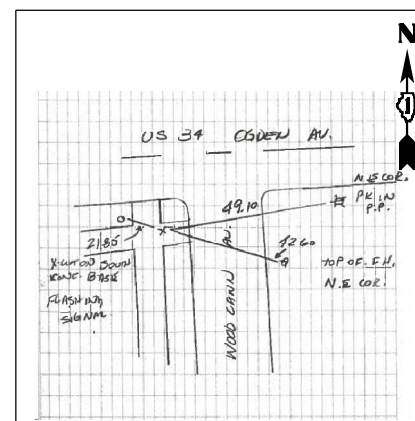
ELEV. 647,563
 "X" - CUT IN S.W. BOLT ON F.H. @ S.W.
 COR. OF U.S. 34 & ELLINGTON AVE.

ROUTE	POINT	NORTHING	EASTING	STATION
U.S. ROUTE 34 (OGDEN AVE.)	PT#100	1877315.6359	1101060.4693	484+20.47
	PC CURVE 1	1877520.1798	1101963.9453	493+46.81
	PI CURVE 1	1877575.8877	1102210.0086	495+99.10
	PT CURVE 1	1877542.3953	1102460.0661	498+46.06
	PT#106	1877320.8962	1104113.8009	515+14.56
WOLF RD.	PI#3006	1877423.0904	1102614.5679	199+01.11
	PI#104	1877521.8417	1102612.6373	199+99.88
	PI#3008	1877622.0112	1102605.6056	201+00.30



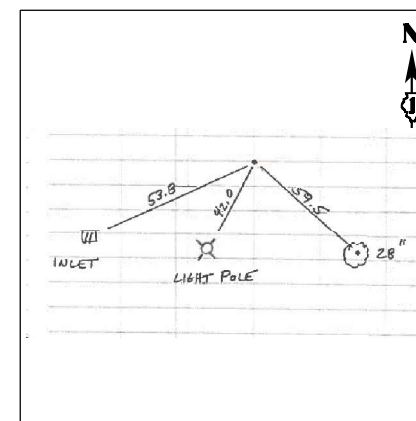
CONTROL POINT #1

X - CUT IN SIDEWALK S. SIDE
 U.S. 34 W. OF WOLF RD.
 STA. 487+65.14
 N=1877349.9692
 E=1101406.0902
 ELEV.=650.5333



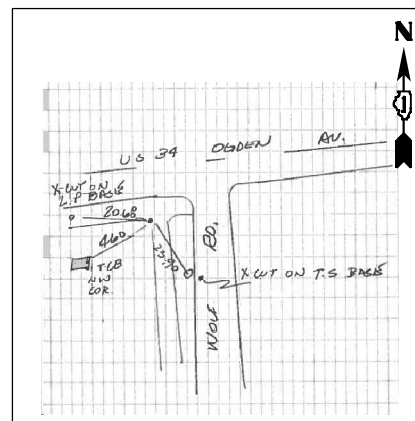
CONTROL POINT #2

X- CUT ON SIDEWALK @ N.W. CORNER.
 STA. 489+08.74
 N=1877383.1365
 E=1101545.8191
 ELEV.=650.6430



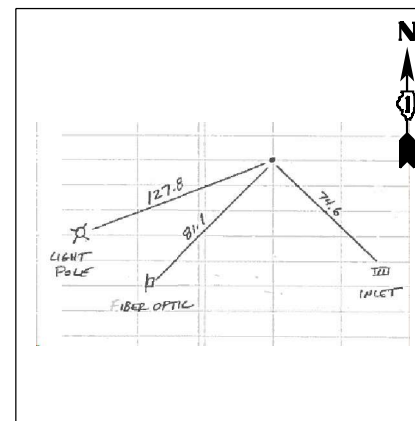
CONTROL POINT #3

MAG NAIL CENTERLINE U.S. 34 +/- 450'
 W. OF WOLF RD.
 STA. 495+63.46
 N=1877551.9688
 E=1102178.0674
 ELEV.=652.9830



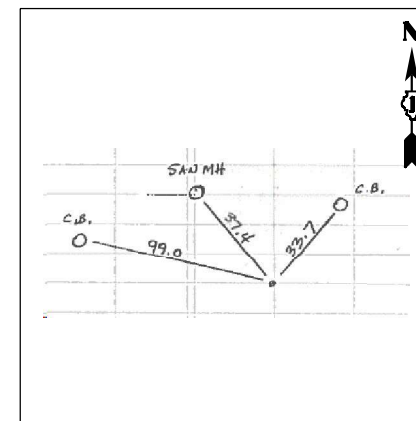
CONTROL POINT #4

P.K. NAIL IN S.W. @ S.W. CORNER
 STA. 499+68.04
 N=1877471.7725
 E=1102573.6743
 ELEV.=655.4230



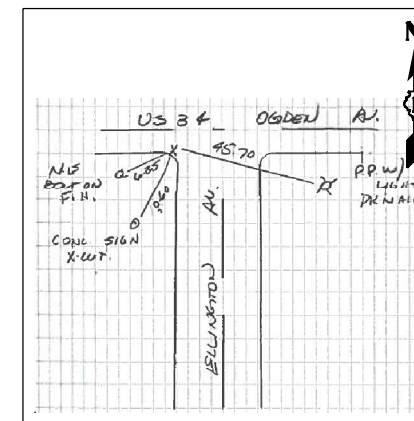
CONTROL POINT #5

MAG NAIL IN MEDIAN U.S. 34 +/- 400'
 E. OF WOLF RD.
 STA. 503+82.26
 N=1877464.1937
 E=1102990.5805
 ELEV.=653.1230



CONTROL POINT #6

MAG NAIL IN FOREST PRESERVE ENT.
 N. SIDE U.S. 34 +/- 500' E. OF WOLF RD.
 STA. 510+65.73
 N=1877404.9866
 E=1103672.2298
 ELEV.=644.5030



CONTROL POINT #7

X-CUT ON CURB @ S.W. CORNER U.S. 34
 & ELLINGTON AVE.
 STA. 513+10.03
 N=1877315.0536
 E=1103906.6593
 ELEV.=647.7030

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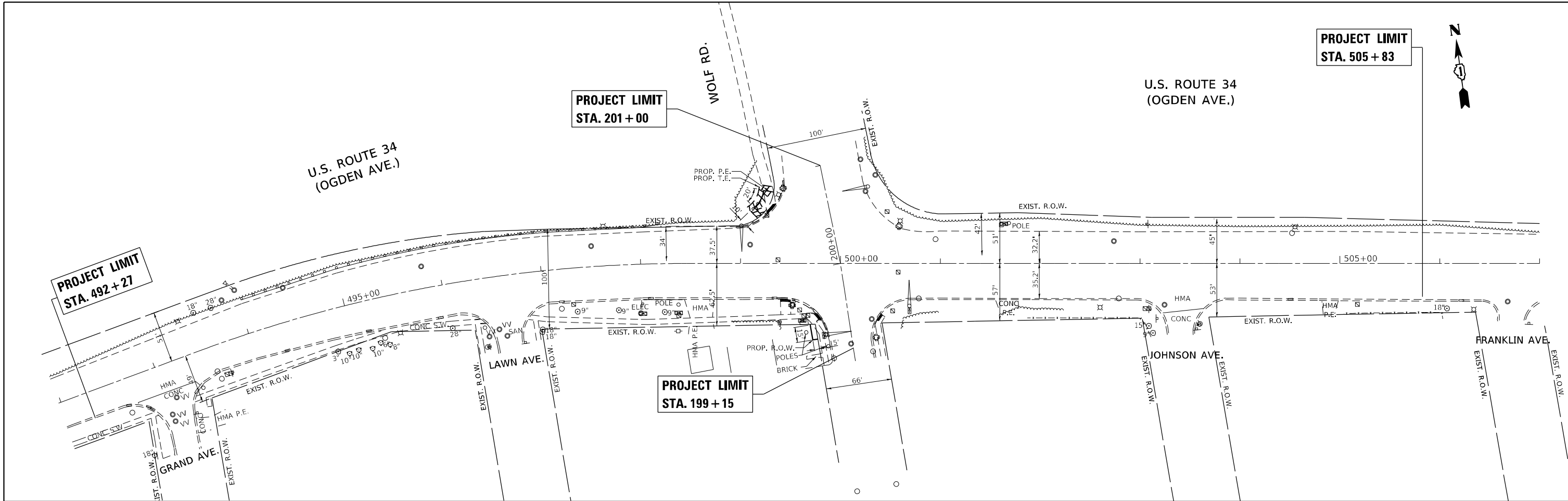
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
 U.S. ROUTE 34 AT WOLF RD.**

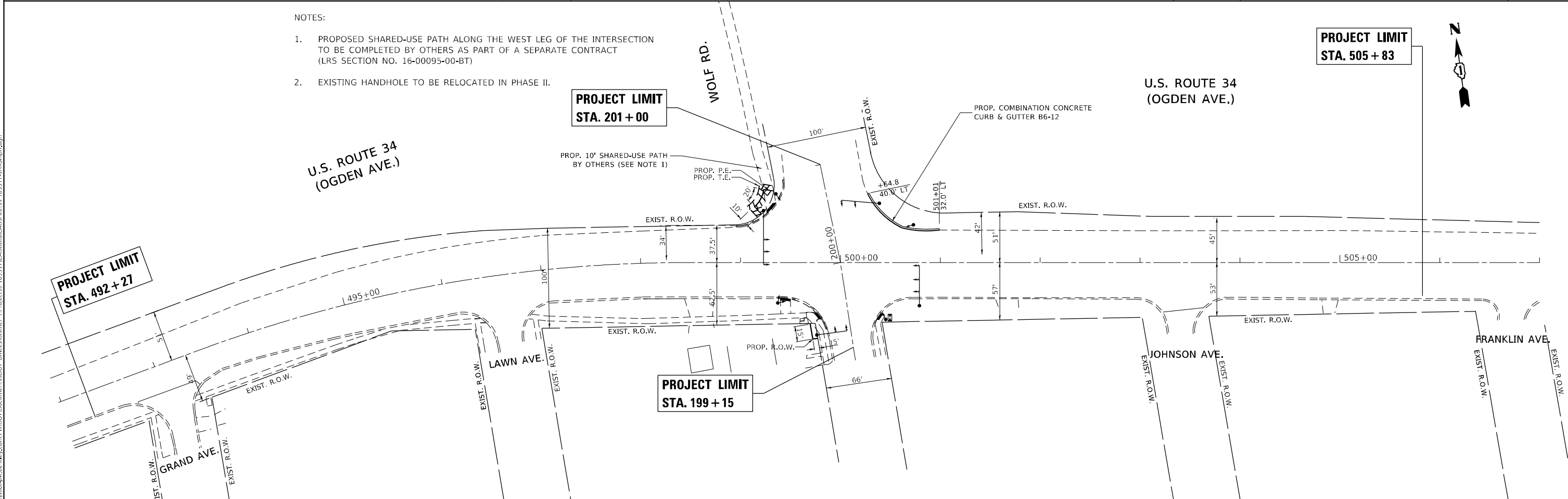
SCALE: 1"=100' SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	17
CONTRACT NO. 62U21			ILLINOIS FED. AID PROJECT	



NOTES:

1. PROPOSED SHARED-USE PATH ALONG THE WEST LEG OF THE INTERSECTION TO BE COMPLETED BY OTHERS AS PART OF A SEPARATE CONTRACT (LRS SECTION NO. 16-00095-00-BT)
2. EXISTING HANDHOLE TO BE RELOCATED IN PHASE II.



MODEL: Default
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USER NAME = Fritz, Guillaume	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/12/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
U.S. ROUTE 34 AT WOLF RD.

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	18
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

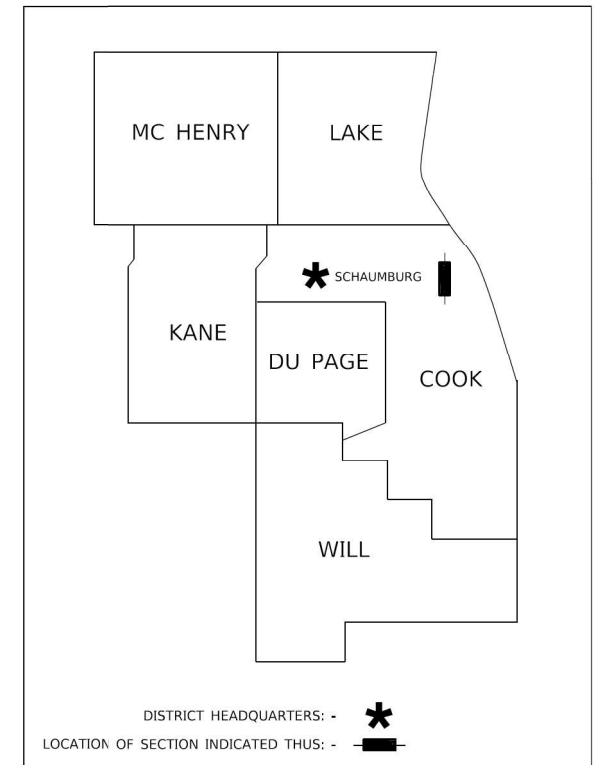
PLAT OF HIGHWAYS

ROUTE: US ROUTE 34
SECTION: AT WOLF ROAD
COUNTY: COOK
LIMITS: AT WOLF ROAD
JOB NO.: R-90-002-22

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0NB0001PE UNBU0001LE	FOREST PRESERVE DISTRICT OF COOK COUNTY	3	
0NB0002	SQSHA AND JAQUELINE GARBER	3	



LOCATION MAP



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PREPARED BY: -

 TECMA ASSOCIATES, INC. <small>ENGINEERS / SURVEYORS / CONSTRUCTION MANAGERS</small> 475 N. MARTINGALE ROAD, SUITE 570 SCHAMBURG, ILLINOIS 60113 PHONE: 773-763-5555 FAX: 773-763-5577	 WT GROUP <small>Structural Mechanical Electrical Plumbing Civil Land Survey Telecommunications Acoustic Accessibility Consulting Design & Program Management</small> Engineering with Precision. Pace & Passion. 2575 Pratum Avenue Hoffman Estates, IL 60112 P: 224.293.6333 F: 224.293.6444 wtgroup@wtg.com
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PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 U.S. ROUTE 34 (OGDEN AVE.)

LIMITS: AT WOLF ROAD	COUNTY: Cook
SECTION: STATION: 497+00	JOB NO.: R-90-002-22 TO STATION: 503+00
SCALE: N/A	SHEET 1 OF 3

**BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196-1096**

IDOT USE ONLY

APPROVED
By Rod Richgruber at 2:55 pm, Oct 12, 2022

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

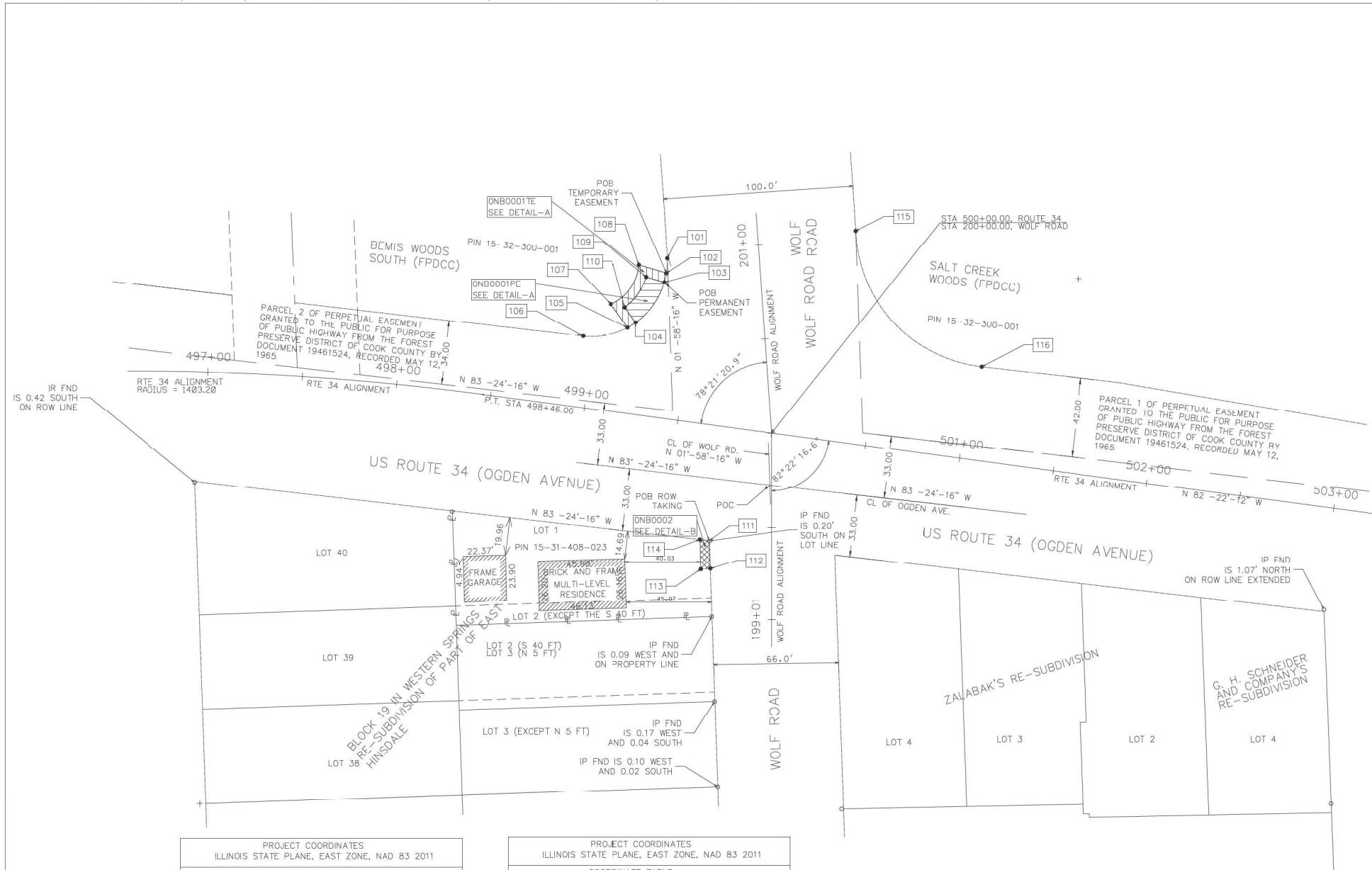
**PLATS OF HIGHWAYS
(US 34 (OGDEN AVENUE) AT WOLF ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 T5	COOK	71	19
CONTRACT NO. 62U21				

ILLINOIS FED. AID PROJECT

PART OF SEC. 32, T39N, R12E OF THE 3RD P.M., COOK COUNTY, ILLINOIS



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- *MAG* NAIL SET
-

- NOTES:
- BASIS OF BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, ILLINOIS EAST (1201) ZONE NAD83 (2011). COORDINATES/DISTANCES SHOWN ARE "GRID". GRID DISTANCE / THE COMBINED SCALE FACTOR OF 0.999973811 = GROUND DISTANCE.
 - ALL STATIONING IS SHOWN IN FEET.
 - SHEET 1 IS THE COVER SHEET AND IS NOT RECORDED.
 - BUILDING TIES SHOWN ARE TO THE PROPOSED RIGHT OF WAY LINE, UNLESS THERE ARE NO TAKINGS ON SAID PROPERTY, IN WHICH CASE THEY ARE TO THE EXISTING RIGHT OF WAY LINE.

STATE OF ILLINOIS)
COUNTY OF COOK) SS

THIS IS TO DECLARE THAT WE, TECMA ASSOCIATES, INC., HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN THE WEST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

GIVEN UNDER OUR HAND AND SEAL THIS ____ DAY OF _____ A.D. ____
AT SCHAUMBURG, ILLINOIS.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2135
LICENSE EXPIRATION DATE: 11/30/2322

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT
ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 2011

PNT#	STATION	OFFSET	NORTHING	EASTING
101	200+96.14	48.48 LEFT	1877614.49	1102557.53
102	200+88.37	49.52 LEFT	1877606.67	1102557.04
103	200+83.57	50.98 LEFT	1877601.78	1102555.92
104	200+63.40	67.65 LEFT	1877580.48	1102540.70
105	200+61.06	72.09 LEFT	1877577.85	1102536.44
106	200+58.24	95.82 LEFT	1877573.37	1102512.96
107	200+74.04	79.99 LEFT	1877590.24	1102527.65
108	200+93.68	63.76 LEFT	1877610.97	1102542.47
109	200+87.07	60.35 LEFT	1877604.61	1102546.33

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 2011

PNT#	STATION	OFFSET	NORTHING	EASTING
110	200+71.94	72.85 LEFT	1877588.64	1102534.92
111	199+43.01	32.93 LEFT	1877164.99	1102579.71
112	199+28.02	32.41 LEFT	1877450.00	1102580.23
113	199+27.84	37.40 LEFT	1877449.82	1102575.23
114	199+43.59	37.93 LEFT	1877465.57	1102574.69
115	500+29.84	112.00 LEFT	1877629.00	1102657.09
116	501+05.14	49.53 LEFT	1877557.09	1102723.43

PARCEL NUMBER	TOTAL HOLDINGS ACRES/SQ FT	PART TAKEN SQ. FT	AREA N EXISTING ROW ACRES/SQ FT	REMAINDER AREA ACRES/SQ FT	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
ONB0001PE ONB0001TE					0.005 AC 0.006 AC	233 SQ. FT. 242 SQ. FT.	15-32-300-001
ONB0002	0.157 AC/ 6818 SQ. FT.	0.002 AC/ 77 SQ. FT.		0.155 AC/ 6741 SQ. FT.			15-31-408-023

PREPARED BY: -

TECMA ASSOCIATES, INC.
ENGINEERS / SURVEYORS / CONSTRUCTION MANAGERS
275 N. MARTIN LUTHER KING, JR. BLVD., SUITE 500
SCHAUMBURG, ILLINOIS 60173
PHONE: 773-763-6555
FAX: 773-763-6577

WT GROUP
Structural / Mechanical / Electrical / Plumbing
Civil / Land Survey / Telecommunications / Acoustics
Accessibility Consulting / Design & Program Management
Engineering with Precision, Passion & Flexibility.
2675 Platan Avenue | Hoffman Estates, IL 60192
P: 224-293-8333 | F: 224-293-8444
wtgroupinc.com

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 34 (OGDEN AVE.)

LIMITS: AT WOLF ROAD COUNTY: Cook
SECTION: JOB NO.: R-90-002-22
STATION: 497+00 TO STATION: 503+00
SCALE: 1"=30' SHEET 2 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

APPROVED
By Rod Richgruber at 2:55 pm, Oct 12, 2022

IDOT USE ONLY

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USER NAME	DESIGNED	REVISED
= Fritz, Guillaume	-	-
	DRAWN	REVISED
	CHECKED	REVISED
	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLATS OF HIGHWAYS
(US 34 (OGDEN AVENUE) AT WOLF ROAD)

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 T5	COOK	71	20

CONTRACT NO. 62U21

ILLINOIS / FED. AID PROJECT

PART OF SEC. 32, T39N, R12E OF THE 3RD P.M., COOK COUNTY, ILLINOIS

LINE	BEARING	DISTANCE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD DISTANCE
A			7.85'	40.0'	S 03°-38'-37" W	7.84'
B	N 73°-32'-52" W	15.19'				
C			26.74'	25.0'	S 35°-32'-49" W	25.48'
D	S 35°-21'-02" E	15.19'				
E			5.01'	40.0'	N 58°-14'-23" E	5.01'
F	N 35°-21'-02" W	10.0'				
G			20.0'	30.0'	N 35°-33'-03" E	19.63'
H	S 73°-32'-52" E	10.0'				
I			5.01'	40.0'	N 12°-51'-34" E	5.01'
J			26.67'	40.0'	N 35°-33'-03" E	26.18'
K			12.87'	40.0'	S 07°-14'-11" W	12.81'

LEGEND

NOTES:

1. BASIS OF BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, ILLINOIS EAST (1201) ZONE NAD83 (2011). COORDINATES/DISTANCES SHOWN ARE "GRID". GRID DISTANCE / THE COMBINED SCALE FACTOR OF 0.999973811 = GROUND DISTANCE.
 2. ALL STATIONING IS SHOWN IN FEET.
 3. SHEET 1 IS THE COVER SHEET AND IS NOT RECORDED.
 4. BUILDINGS SHOWN ARE TO THE PROPOSED RIGHT OF WAY LINE, UNLESS THERE ARE NO TAKINGS ON SAID PROPERTY, IN WHICH CASE THEY ARE TO THE EXISTING RIGHT OF WAY LINE.
- STATE OF ILLINOIS) 55
COUNTY OF COOK)

THIS IS TO DECLARE THAT WE, TECMA ASSOCIATES, INC., HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN THE WEST 1/2 OF THE SOUTHWEST 1/4 OF SECTION 32, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

GIVEN UNDER OUR HAND AND SEAL THIS ____ DAY OF _____ A.D.,
AT SCHAMBURG, ILLINOIS.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2135
LICENSE EXPIRATION DATE: 11/30/2022

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PREPARED BY: -

TECMA ASSOCIATES, INC.
ENGINEERS / SURVEYORS / CONSTRUCTION MANAGERS
475 N. MARTINGALE ROAD, SUITE 570
SCHAMBURG, ILLINOIS 60173
PHONE: 773-783-5555
FAX: 773-783-6577

WT GROUP
Structural | Mechanical | Electrical | Plumbing
Civil | Land Survey | Telecommunications | Aquatics
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
2675 Prather Avenue | Hoffman Estates, IL 60182
P: 224-293-6333 | F: 224-293-6444
wtgroup.com

PLAT OF HIGHWAYS

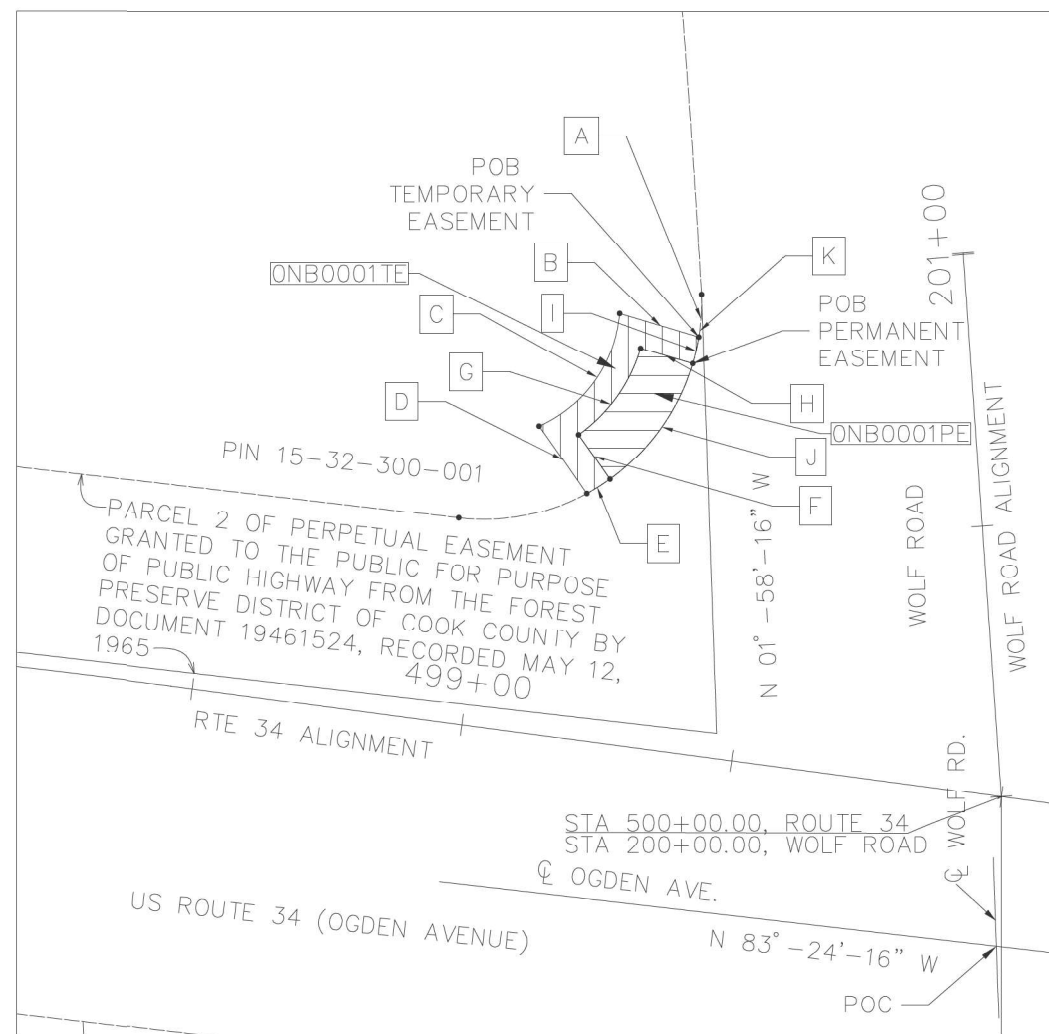
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
U.S. ROUTE 34 (OGDEN AVE.)

LIMITS: AT WOLF ROAD COUNTY: Cook
SECTION: JOB NO.: R-90-002-22
STATION: 497+00 TO STATION: 503+00
SCALE: 1"=30' SHEET 3 OF 3

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAMBURG, ILLINOIS 60196-1096

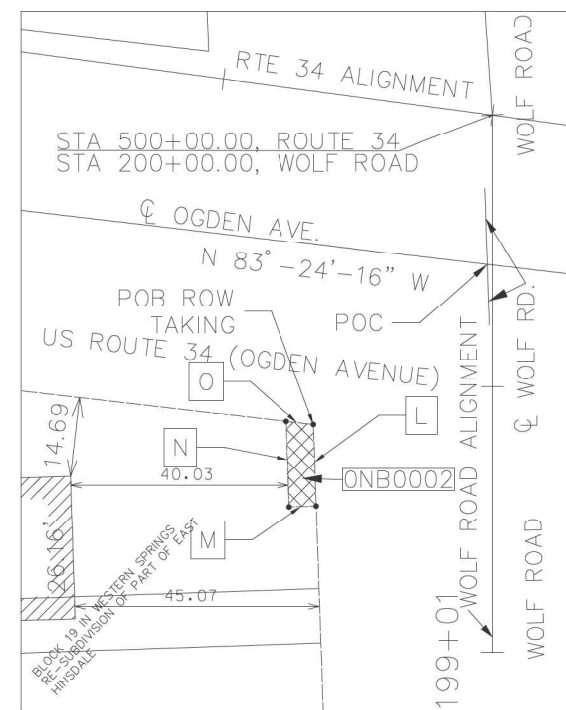
IDOT USE ONLY

APPROVED
By Rod Richgruber at 2:55 pm, Oct 12, 2022



DETAIL A - ONB0001PE, ONB0001TE

LINE	BEARING	DISTANCE
L	S 01°-58'-46" E	15.0'
M	S 88°-01'-14" W	5.0'
N	N 01°-50'-40" W	15.75'
O	S 83°-24'-16" E	5.06'



DETAIL B - ONB0002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLATS OF HIGHWAYS
(US 34 (OGDEN AVENUE) AT WOLF ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 T5	COOK	71	21
CONTRACT NO. 62U21				

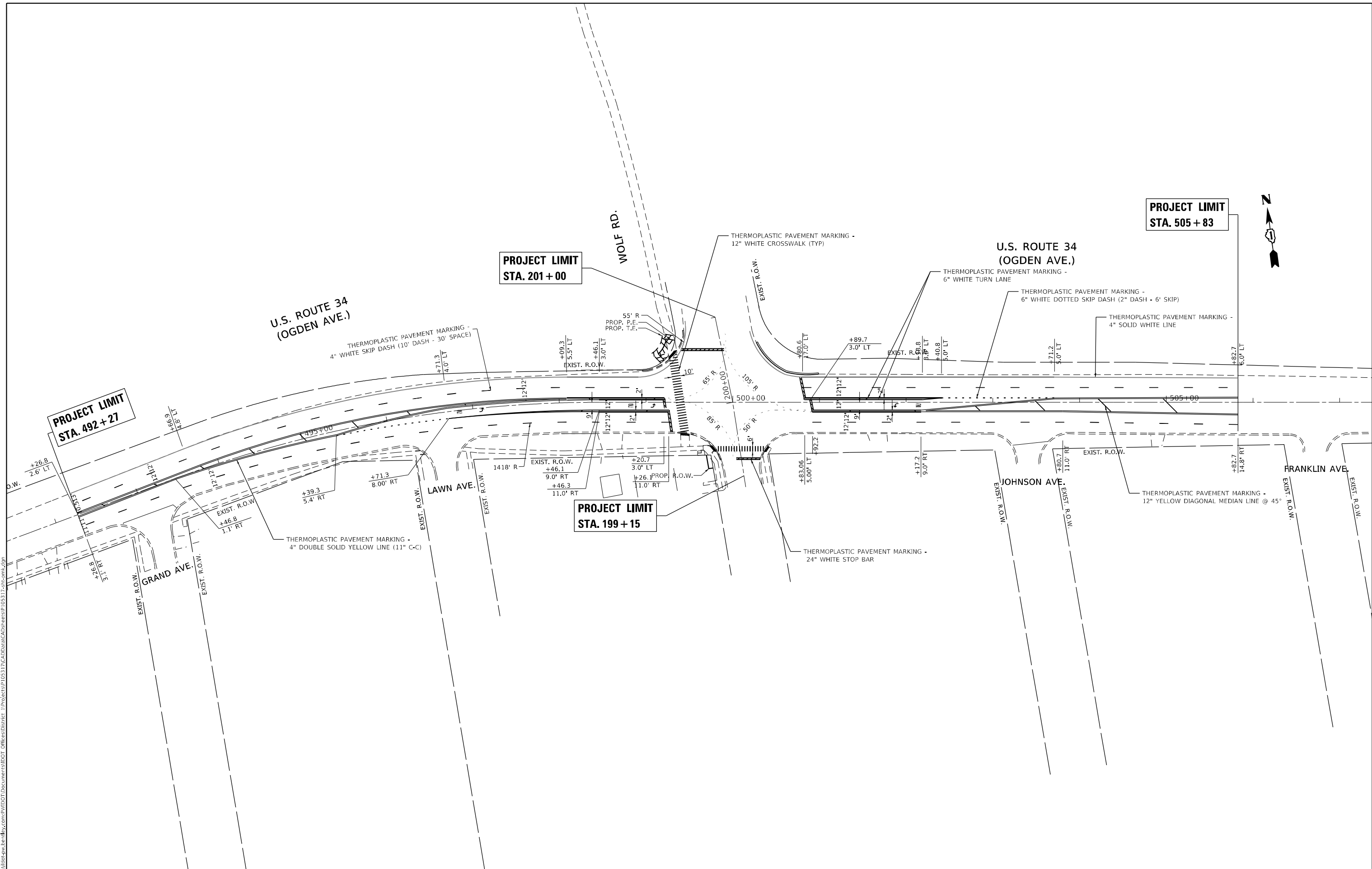
ILLINOIS FED. AID PROJECT

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DRAWN	-	-
CHECKED	-	-
DATE	-	-

PLOT SCALE	CHECKED	REVISED
= 100,0000' / in.	-	-
DATE	-	-

7/3/2024

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PROJECT LIMIT
STA. 505 + 83

PROJECT LIMIT
STA. 201 + 00

PROJECT LIMIT
STA. 492 + 27

PROJECT LIMIT
STA. 199 + 15

USER NAME = Frits, Guillaume	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/11/2023	CHECKED -	REVISED -
	DATE -	REVISED -

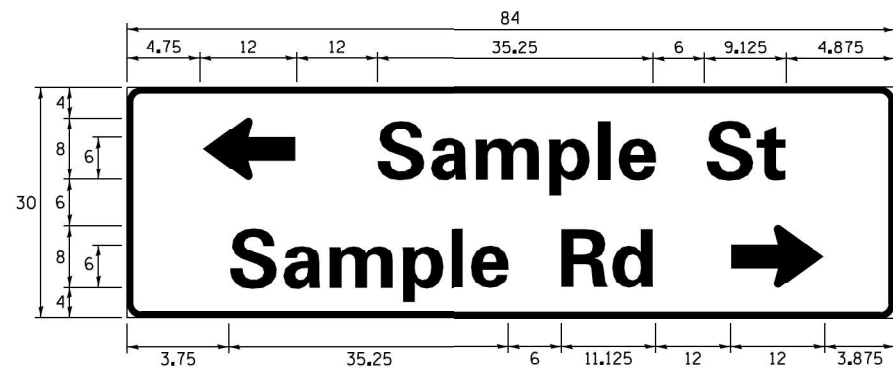
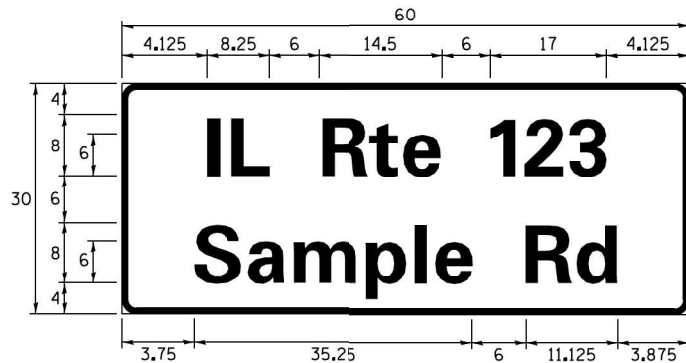
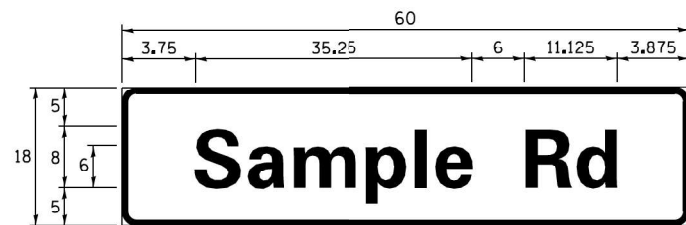
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
U.S. ROUTE 34 AT WOLF RD.

F.A.P. RTE. 311	SECTION FAP 311 22 T5	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 22
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

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	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

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 SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 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 SYMBOLGY 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:

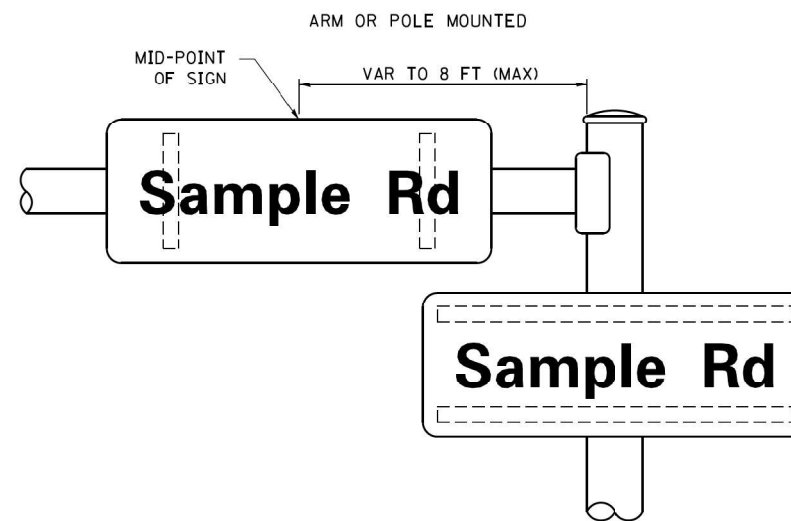
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

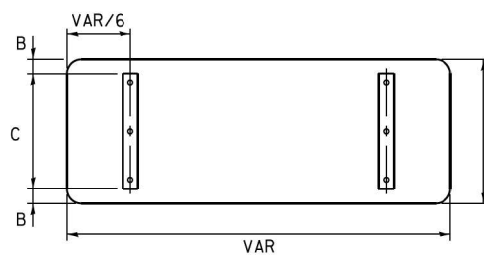
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

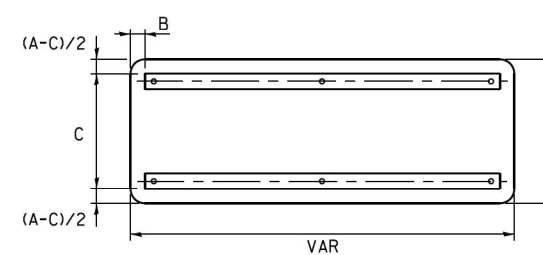
MOUNTING LOCATION



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

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	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	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	4.482	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	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	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	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
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	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TRAFFIC SIGNAL LEGEND

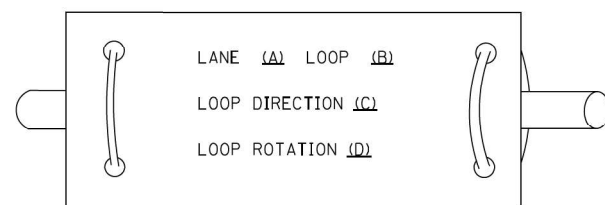
(NOT TO SCALE)

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

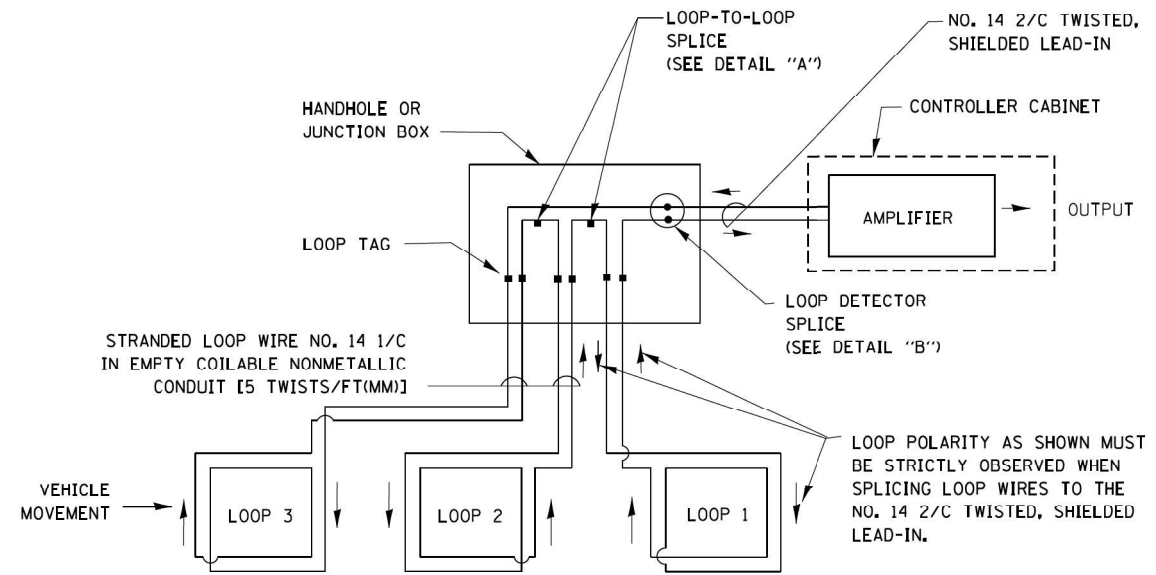
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

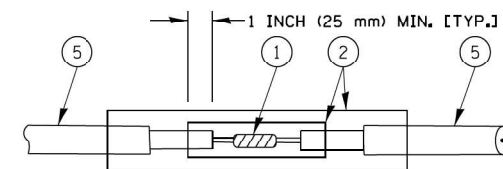


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

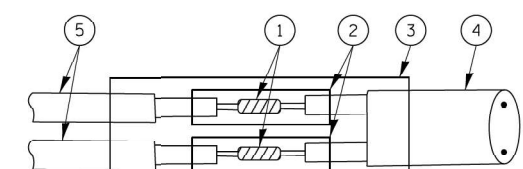


DETECTOR LOOP WIRING SCHEMATIC

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

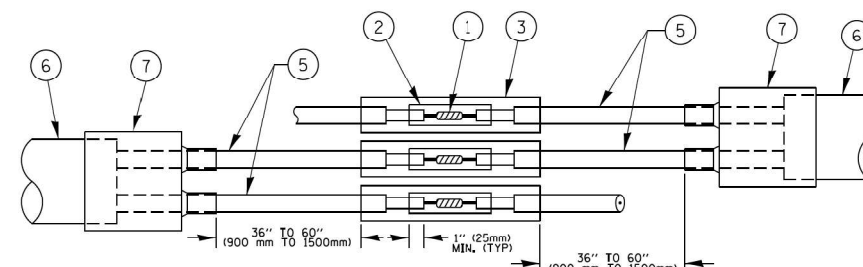


DETAIL "A"
LOOP-TO-LOOP SPLICE

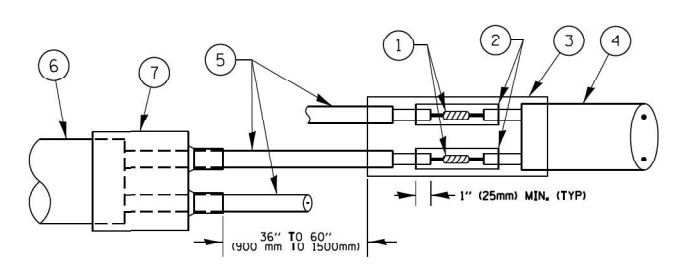


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED 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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footen_j	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pwork\pwork\footen_j\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

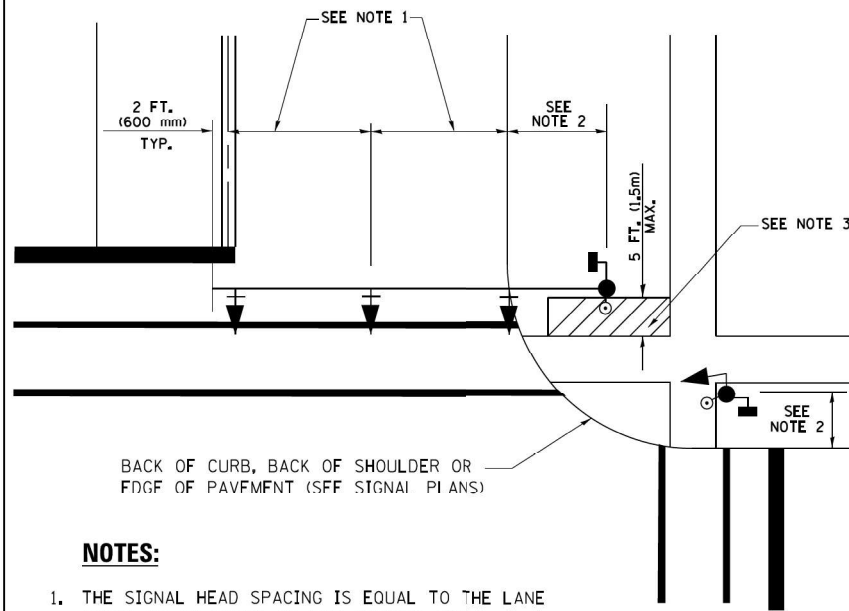
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. VAR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FAP 311 22 TS	VAR	71	25
	TS-05	CONTRACT NO.	62U21	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

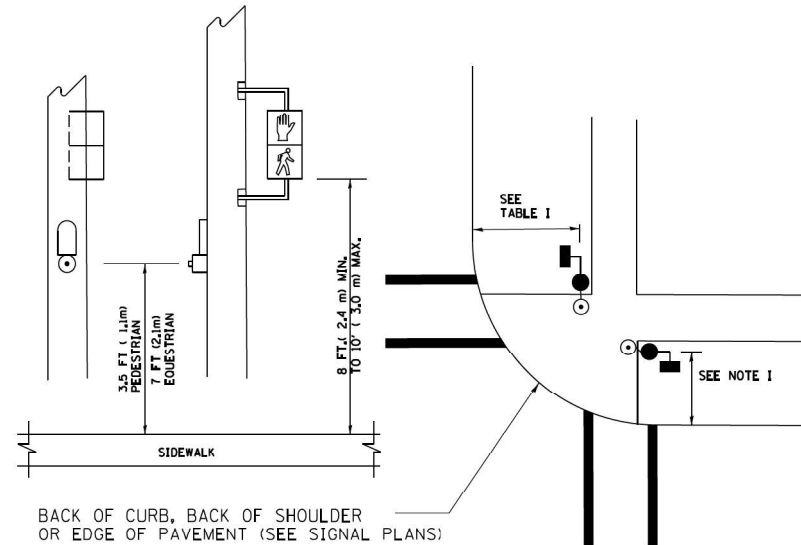
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



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."

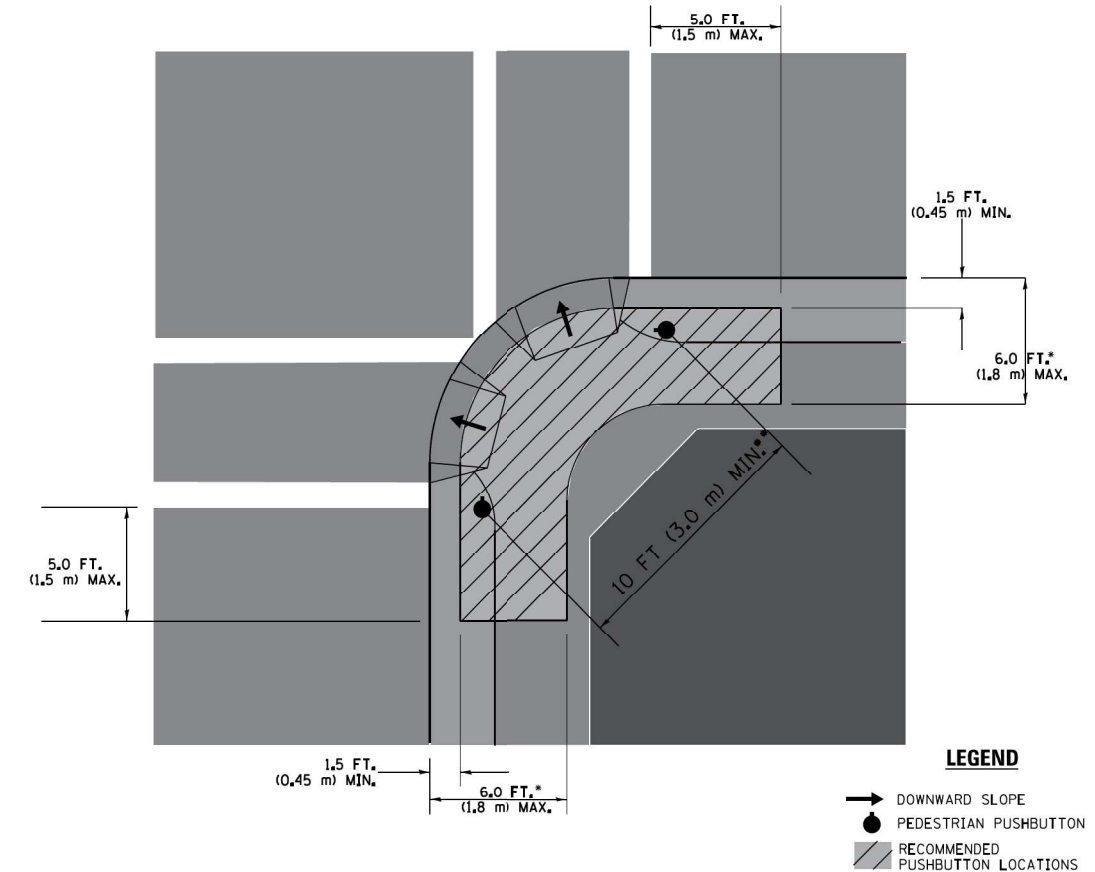
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



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



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ 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) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

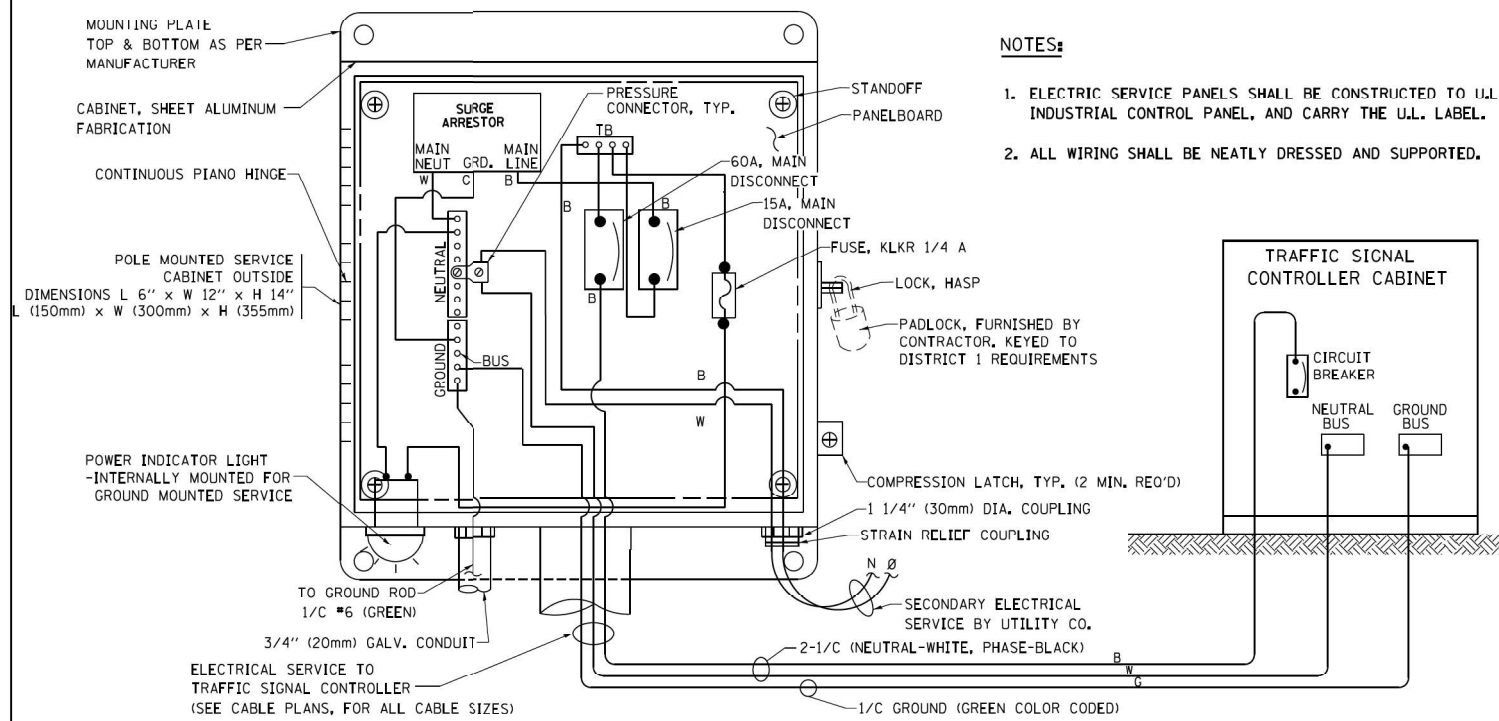
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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

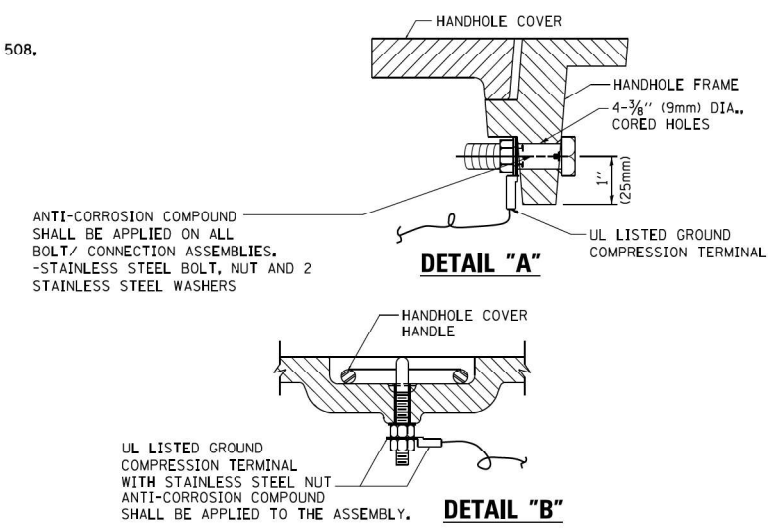
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

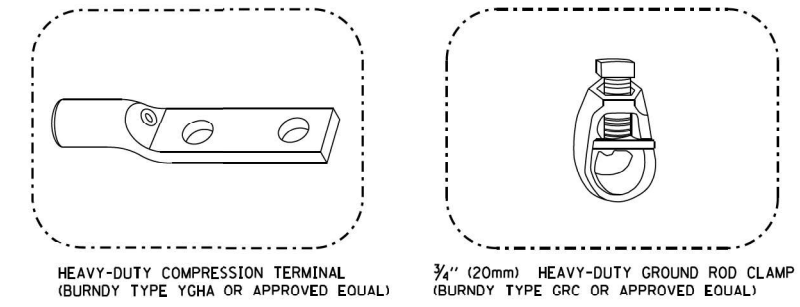
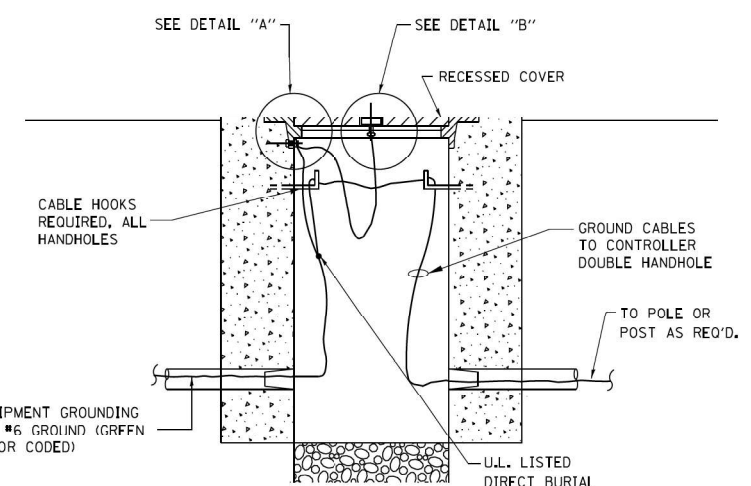


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



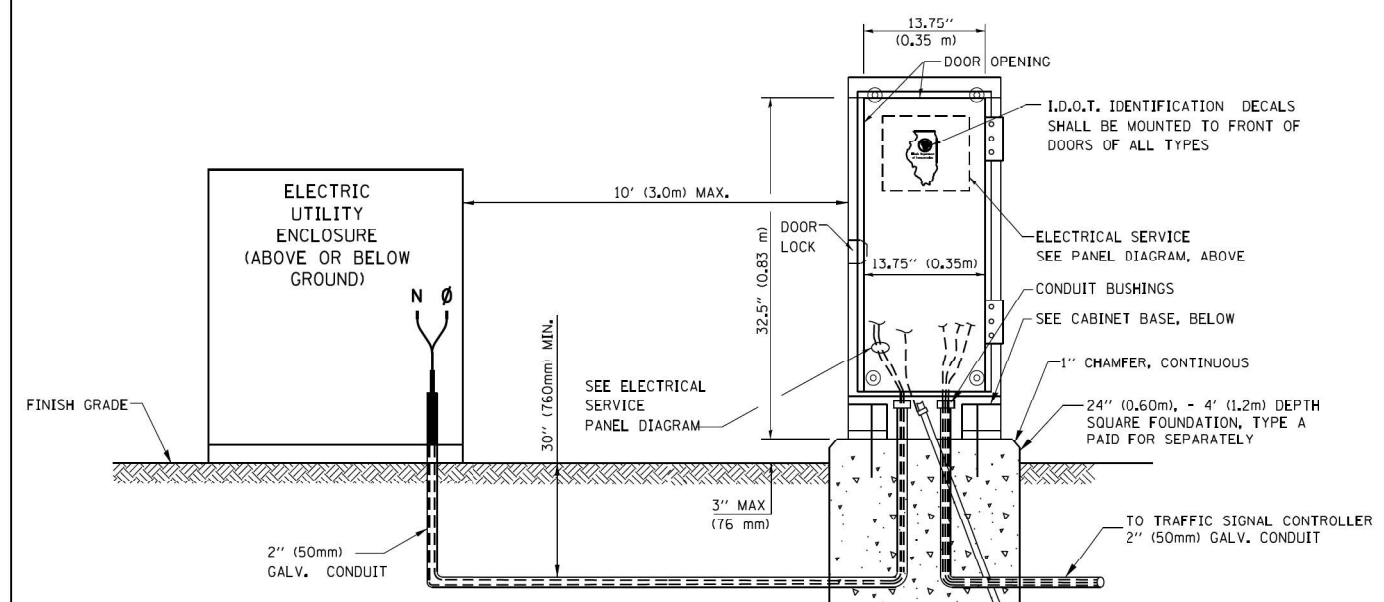
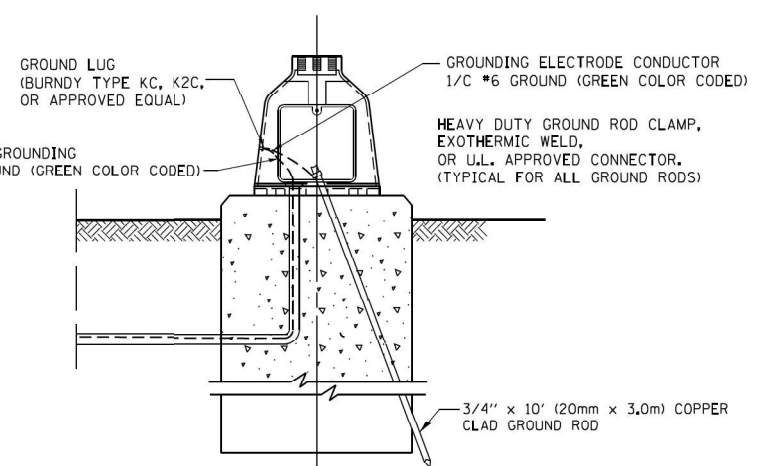
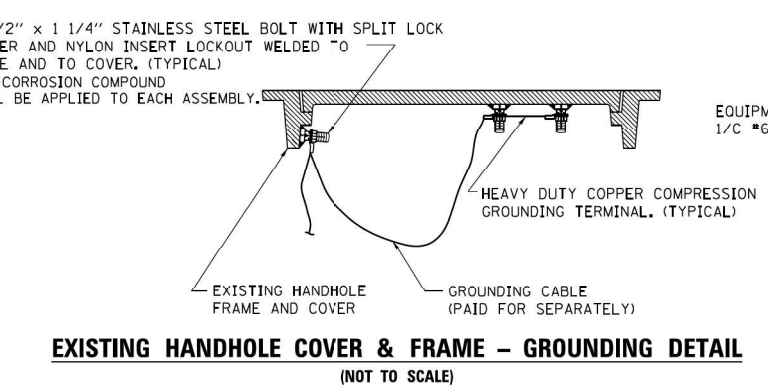
NOTES:
GROUNDING SYSTEM

- 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



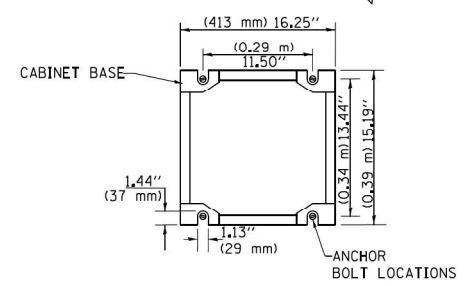
NOTES:

- 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.



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

CABINET - BASE BOLT PATTERN (NOT TO SCALE)



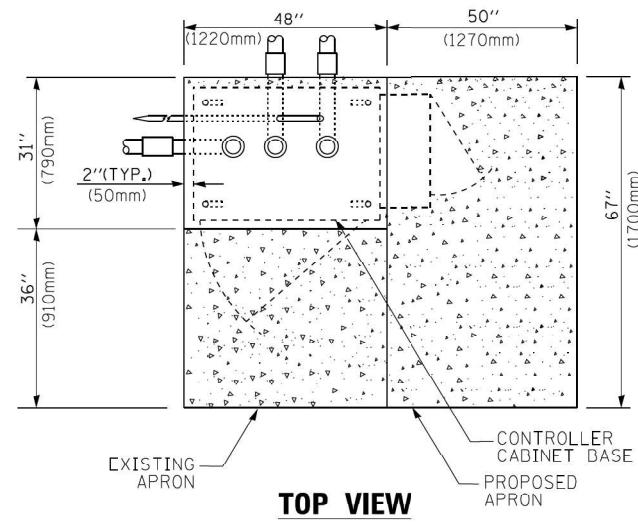
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		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

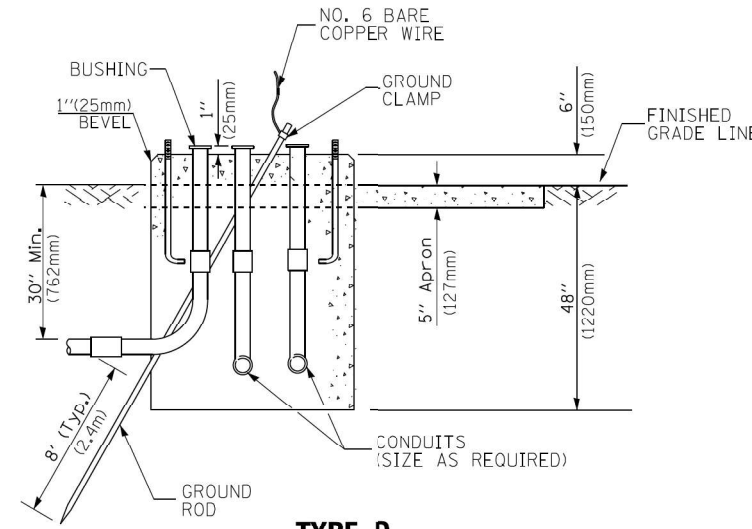
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

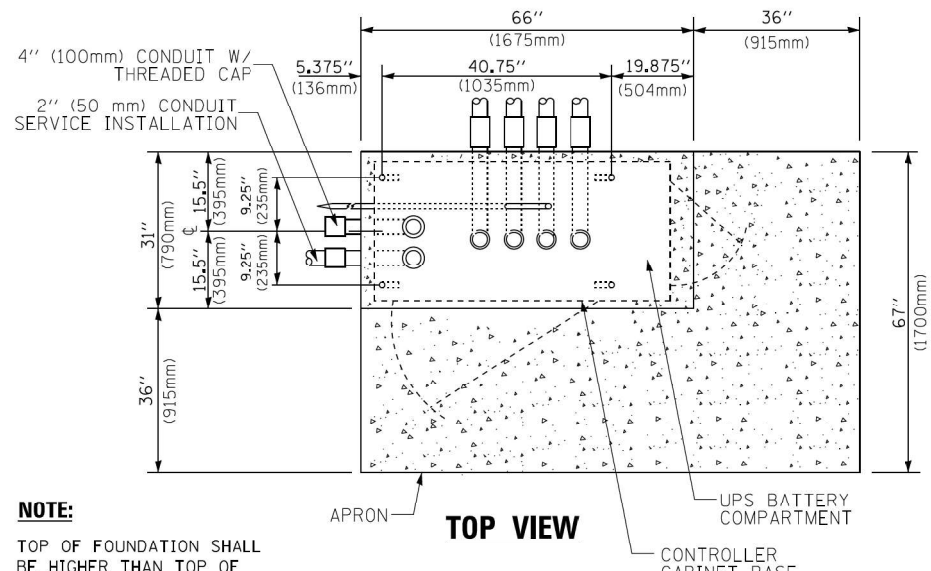
F.A.P. RTE. VAR	SECTION FAP 311 22 TS	COUNTY VAR	TOTAL SHEETS 71	SHEET NO. 27
TS-05		CONTRACT NO. 62U21		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TOP VIEW

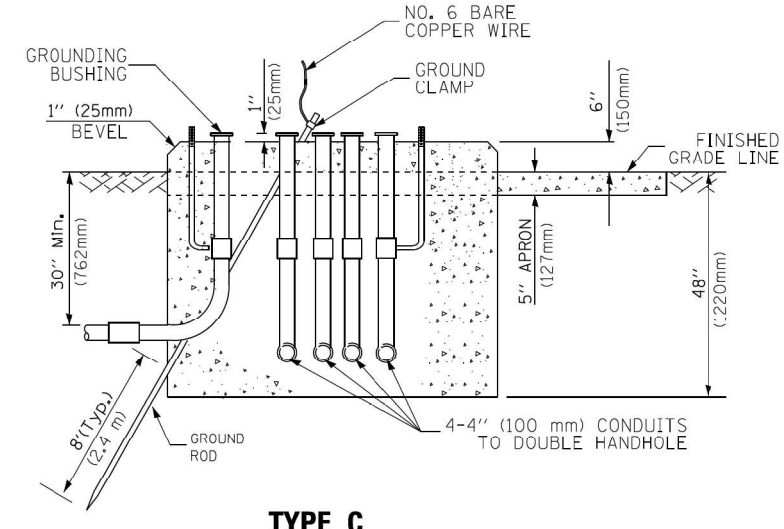


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

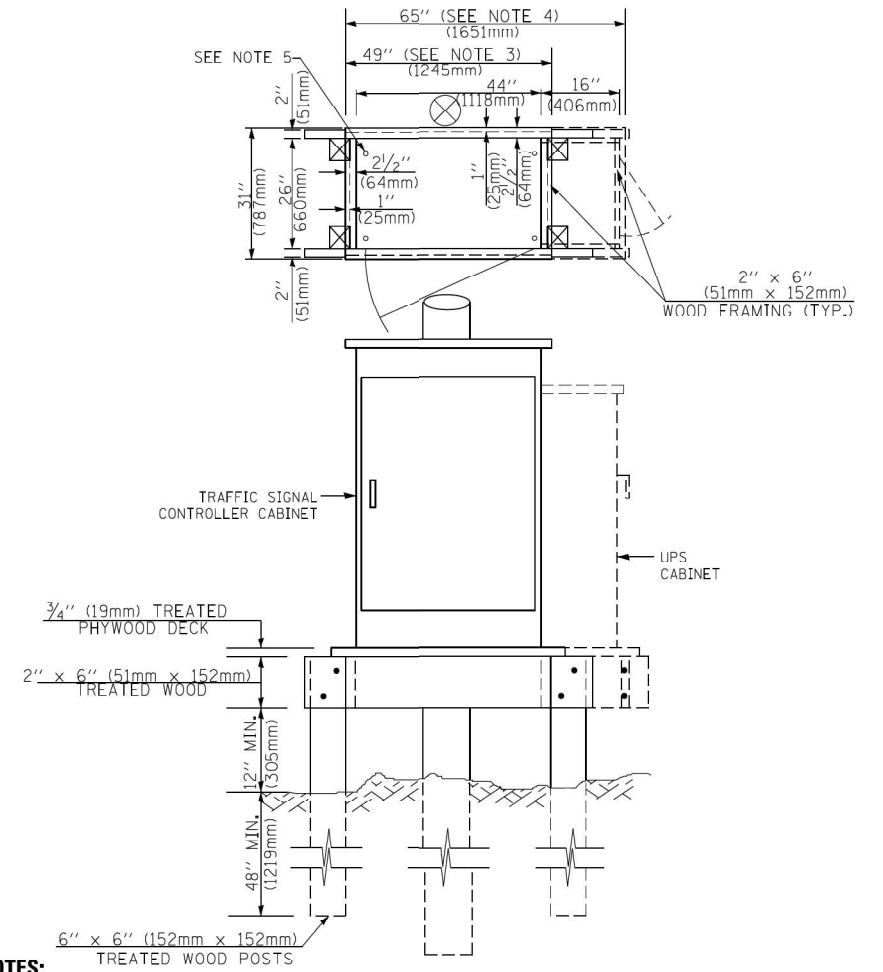


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

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)

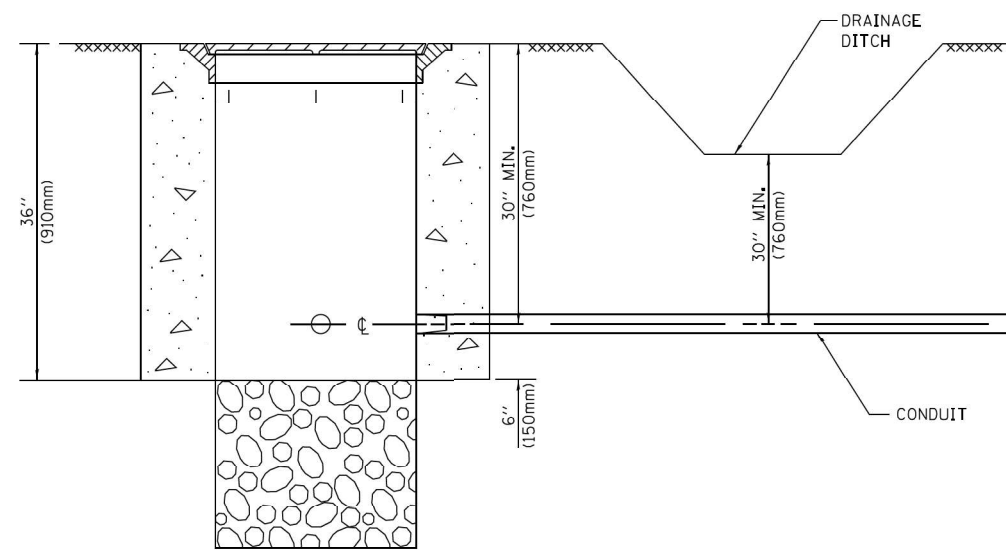
DEPTH OF FOUNDATION

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)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

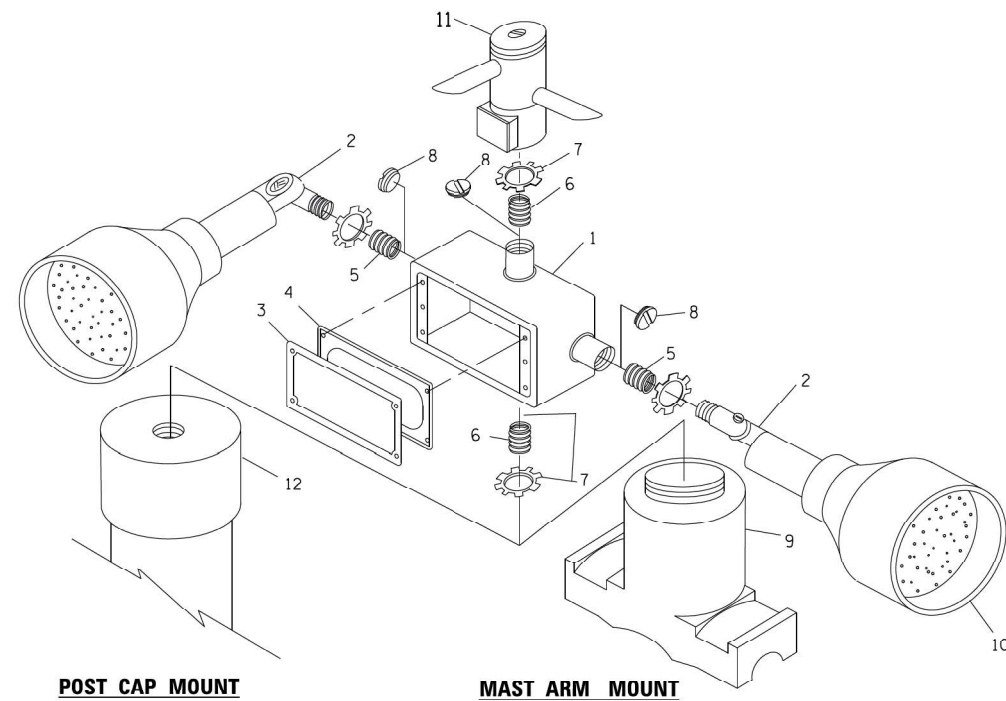
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



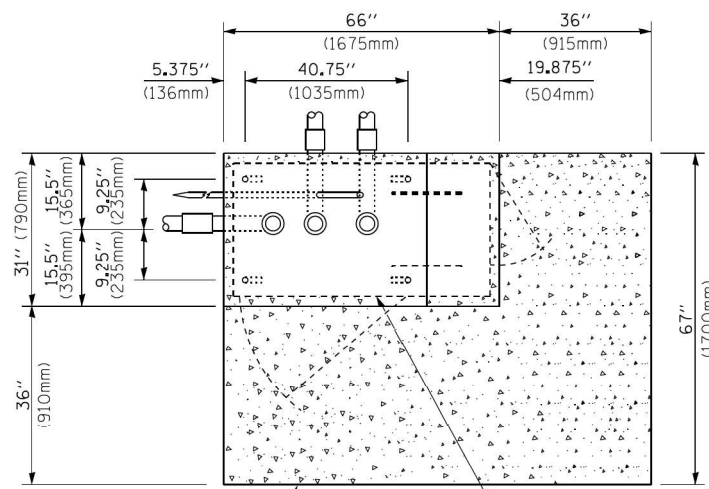
NOTES:

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.

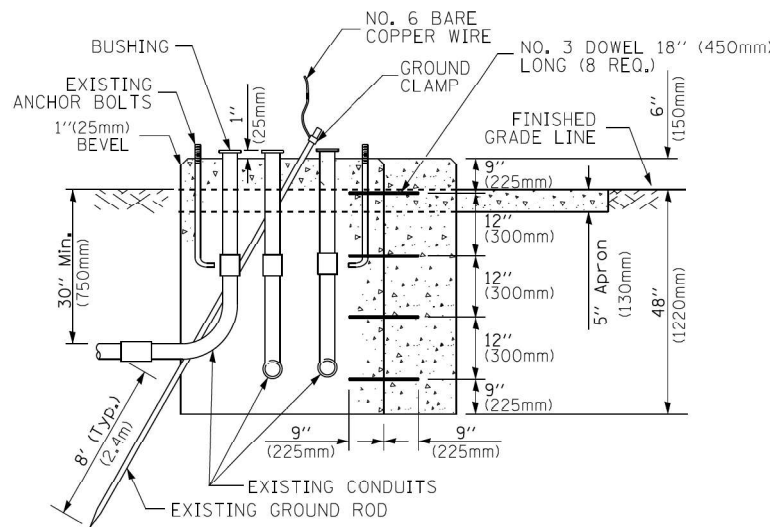
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

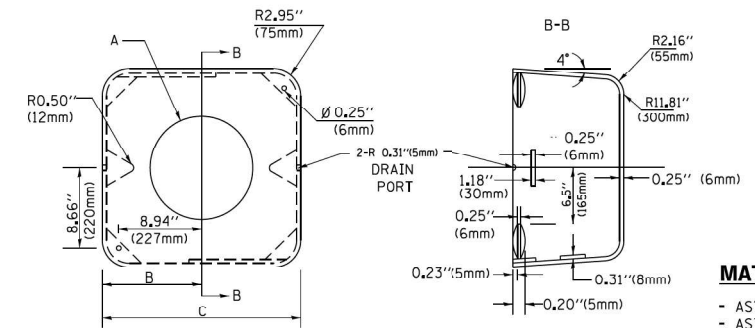


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

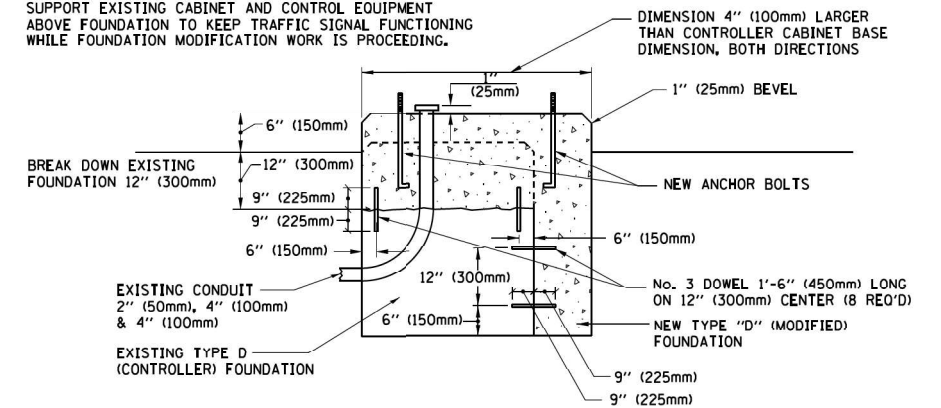
SHROUD

NOTES:

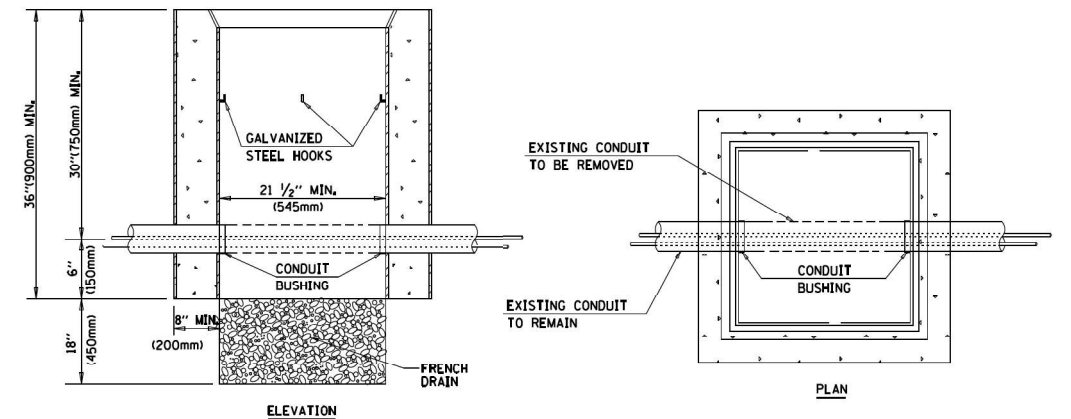
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL CABINET BASE DIMENSION, BOTH DIRECTIONS 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

FILE NAME =	USER NAME = footen_j	DESIGNED - DAD	REVISED - DAG 1-1-14
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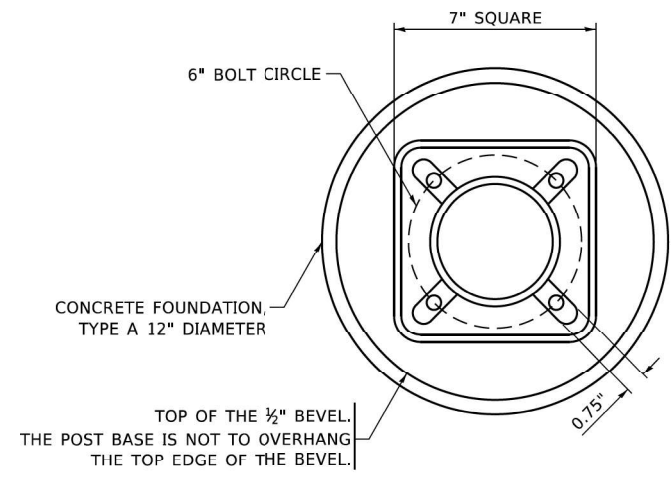
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

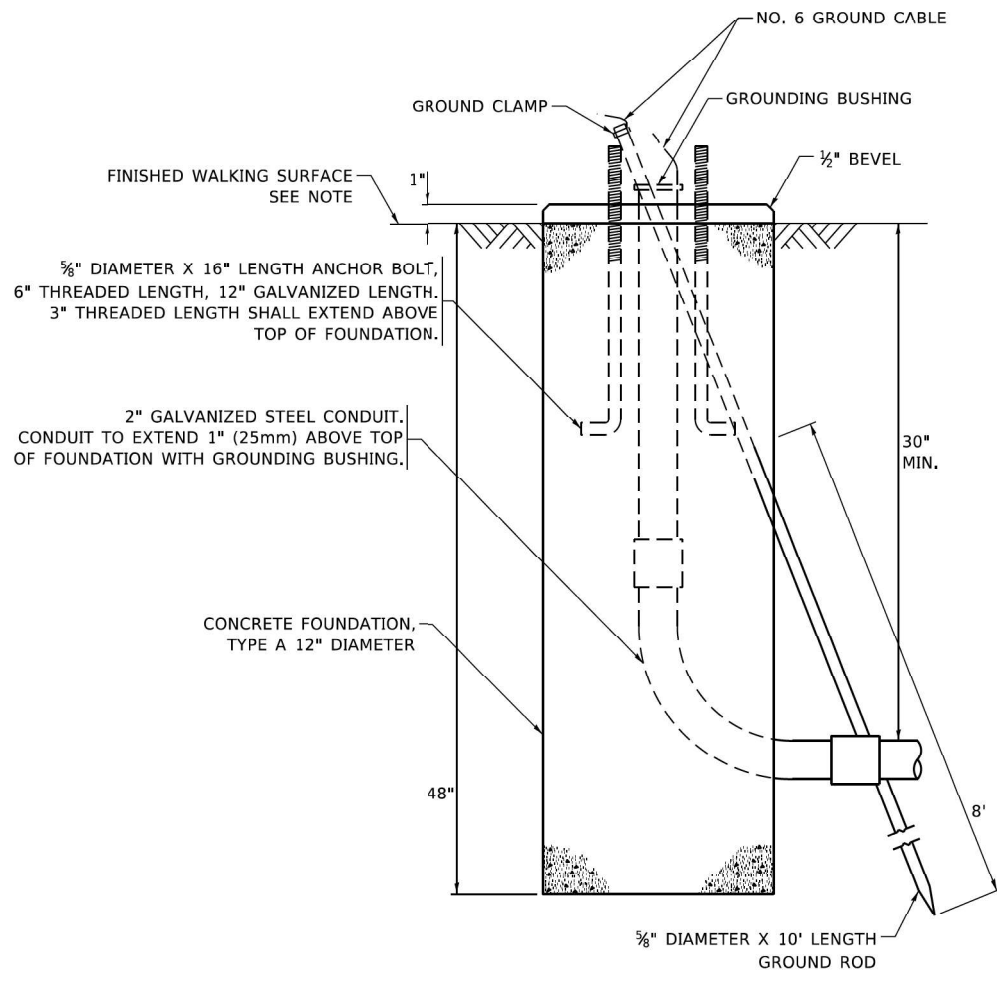
SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. VAR	SECTION FAP 311 22 TS	COUNTY VAR	TOTAL SHEETS 71	SHEET NO. 29
TS-05		CONTRACT NO. 62U21		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

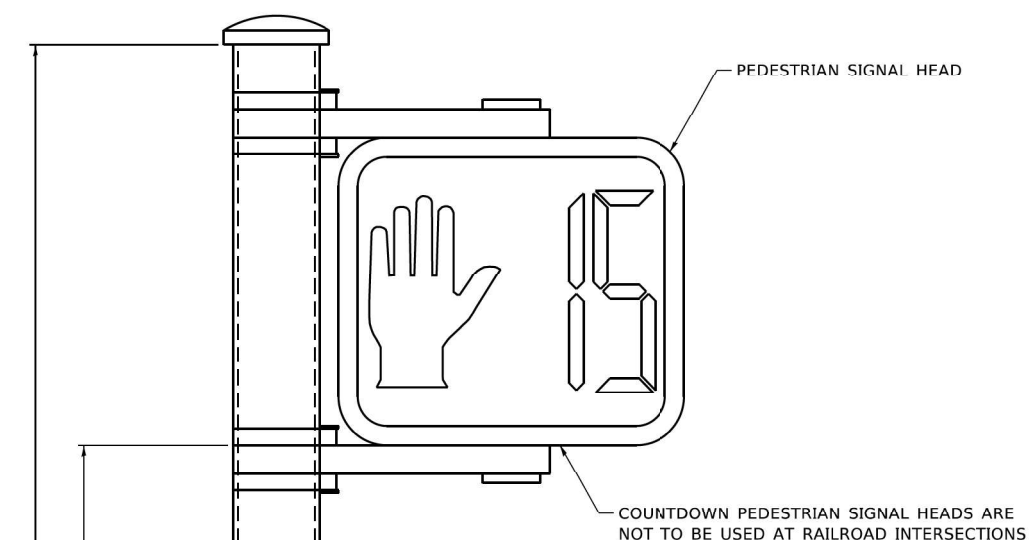


BOLT PATTERN

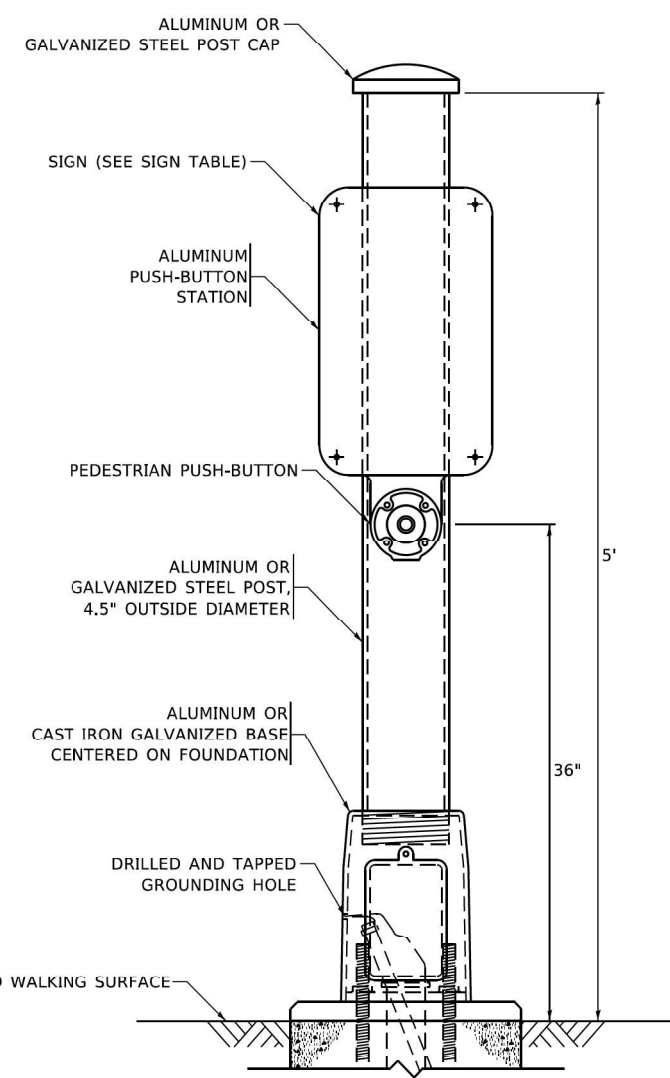
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



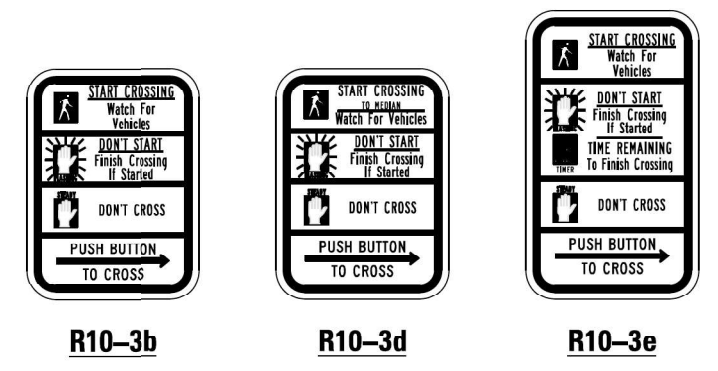
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



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.

MODEL: Default
 FILE: \\nrcs\pva\pva\baron\con\dot\illinois.gov\PWIDOT\Doc\menist\DOT_Offices\Dist1etc_1\Projects\Dist1\512722\31\CAD\Dist1\CAD\sheet\ts05.dgn

USER NAME = gaglanob	DESIGNED - IP	REVISED - 10-15-2020
PLOT SCALE = 100,0000' / in.	DRAWN - IP	REVISED -
PLOT DATE = 11/23/2020	CHECKED - LP	REVISED -
	DATE - 10-15-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	FAP 311 22 TS	VAR	71	30
TS-05		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



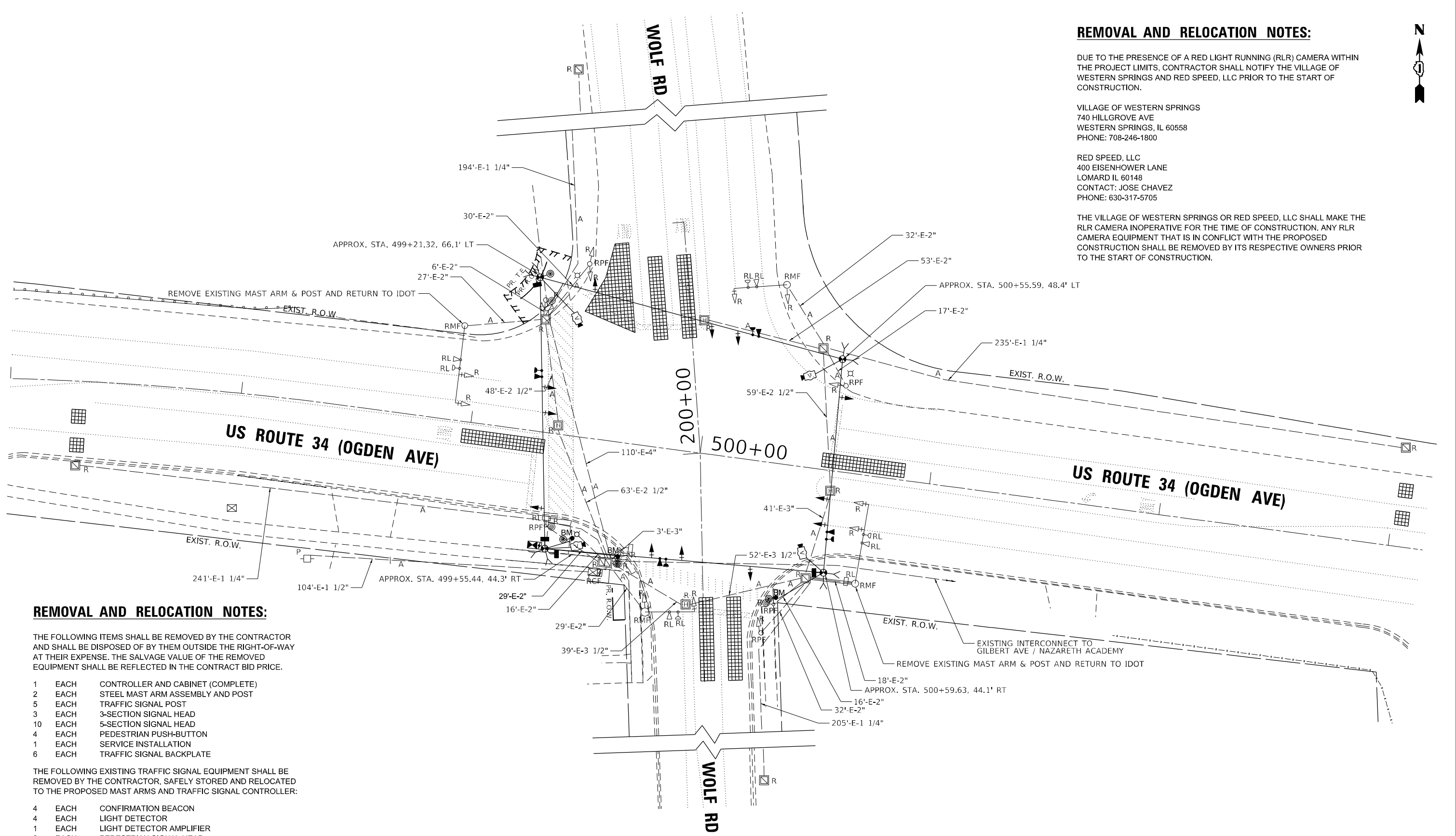
REMOVAL AND RELOCATION NOTES:

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF WESTERN SPRINGS AND RED SPEED, LLC PRIOR TO THE START OF CONSTRUCTION.

VILLAGE OF WESTERN SPRINGS
740 HILLGROVE AVE
WESTERN SPRINGS, IL 60558
PHONE: 708-246-1800

RED SPEED, LLC
400 EISENHOWER LANE
LOMARD IL 60148
CONTACT: JOSE CHAVEZ
PHONE: 630-317-5705

THE VILLAGE OF WESTERN SPRINGS OR RED SPEED, LLC SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 5 EACH TRAFFIC SIGNAL POST
- 3 EACH 3-SECTION SIGNAL HEAD
- 10 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION
- 6 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER:

- 4 EACH CONFIRMATION BEACON
- 4 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 2 EACH PEDESTRIAN SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF IDOT. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT.

- 2 EACH STEEL MAST ARM ASSEMBLY AND POST

FILE NAME: M:\2019\3_Civil\18-03-2500 IDOT FTB_190 - Various Traffic Signal\Design\Graphics\18-03-2500 IDOT US 34 at Wolf\CAD\62U21_Sheet_Temporary_Plan.dgn

Sam Schwartz
200 S. WACKER
SUITE 1400
CHICAGO, IL 60606
TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - PETER WOJTKIEWICZ	REVISED -
PLOT DATE = 6/26/2024	DATE - 6/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

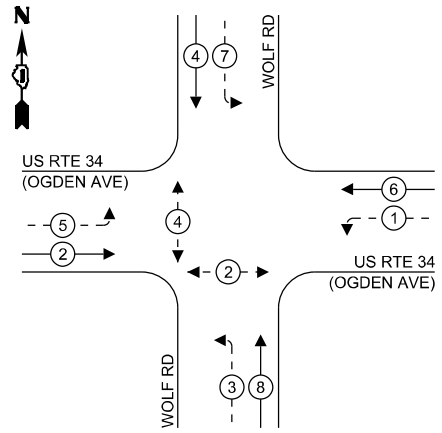
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US RTE 34 (OGDEN AVE) AT WOLF RD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	31
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

**TS 1480
EAGLE 5M**

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

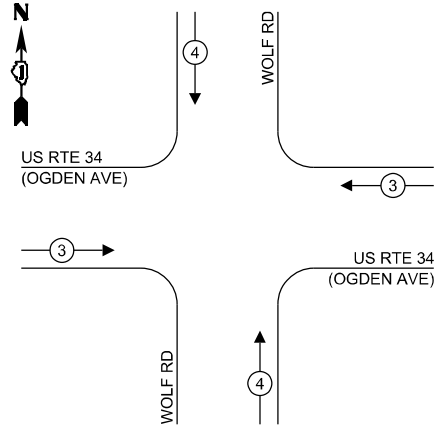
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

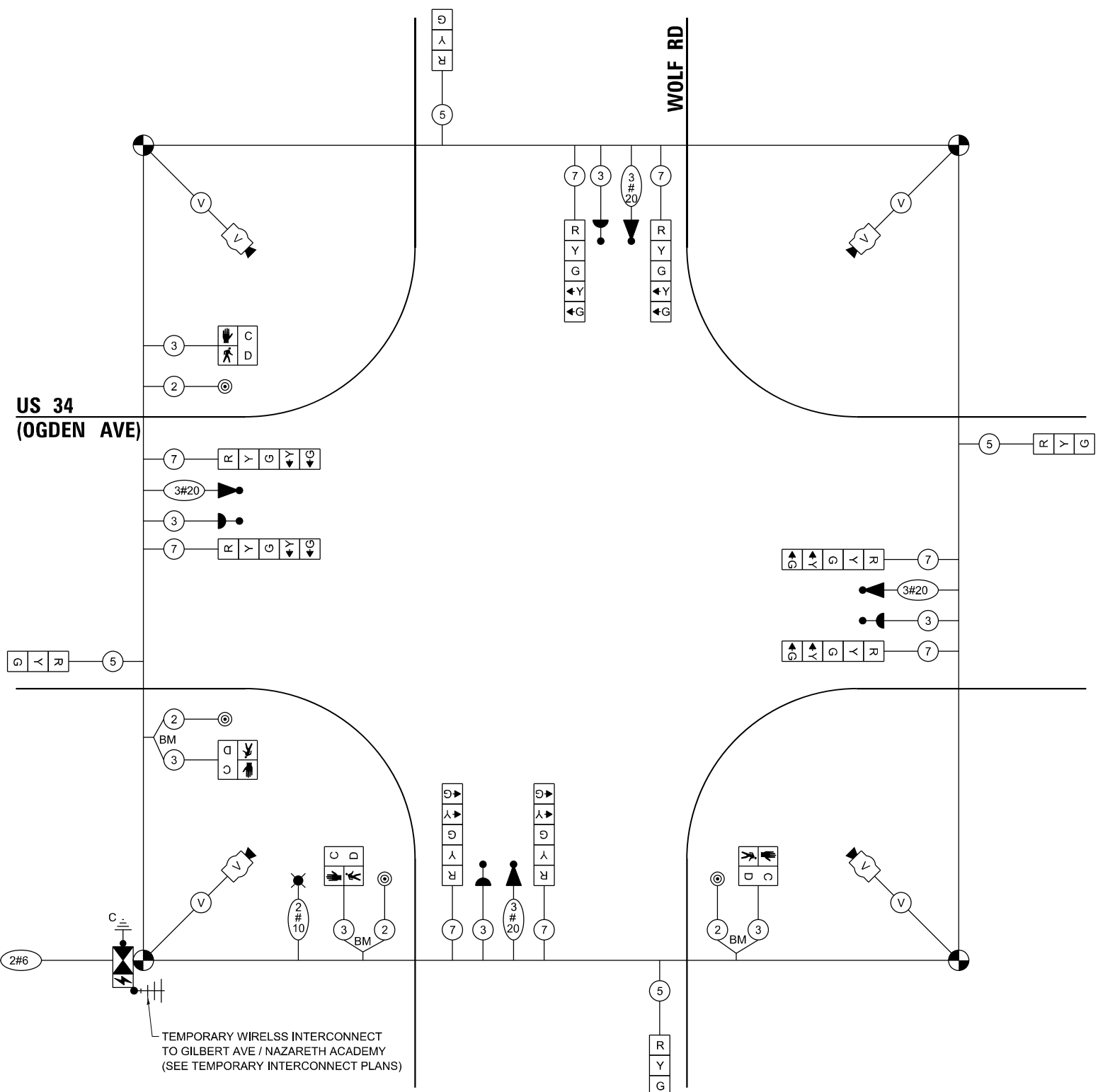


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TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3 - SECTION	4	11	44
4 - SECTION	-	14	-
5 - SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			383
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			1003

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER CT
 SCHAUMBURG, IL 60196
 ENERGY SUPPLY:
 CONTACT: NICK TULEJA
 PHONE: (440) 796-8979
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

Sam Schwartz
 200 S. WACKER SUITE 1400 CHICAGO, IL 60606 TEL: (773) 305-0800

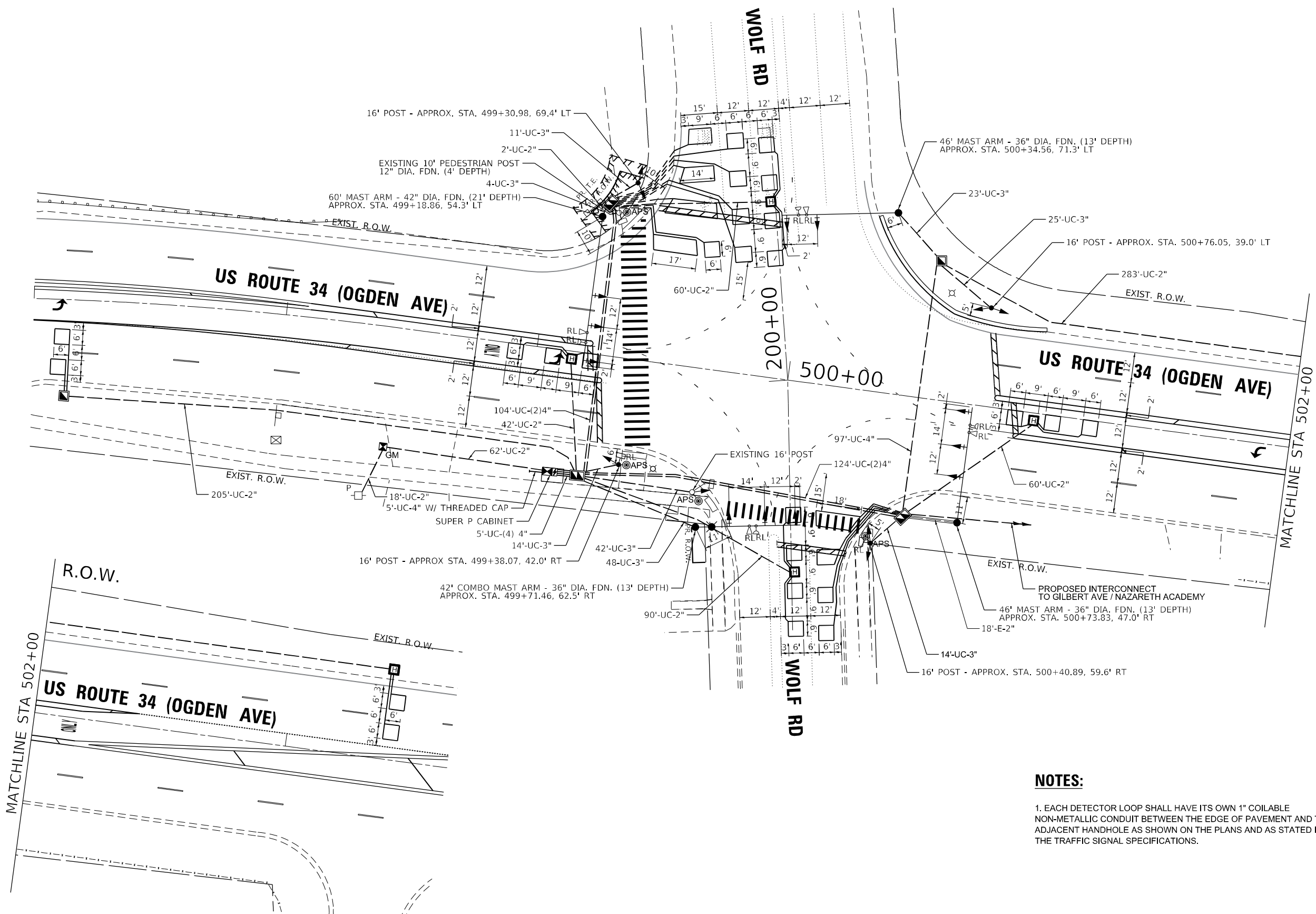
USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 6/26/2024	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 6/26/2024	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY VEHICLE PREEMPTION SEQUENCE US RTE 34 (OGDEN AVE) AT WOLF RD

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 32
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

TS 1480 EAGLE 5M



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.

FILE NAME: M:\2019\3_Civil\18-03-5500 IDOT_PTB_190 - Various Traffic Signs\Design\Graphics\22-026-62U21_US 34 at Wolf\CD\62U21_Sheet_Proposed_Plan.dgn

Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 6/26/2024	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 6/26/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
 US RTE 34 (OGDEN AVE) AT WOLF RD**

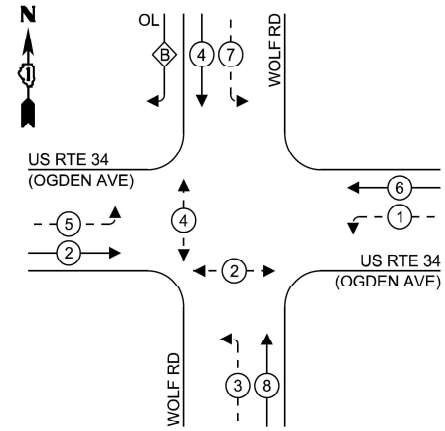
SCALE: 1" = 20'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	33
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

**TS 1480
 EAGLE 5M**

PROPOSED CONTROLLER SEQUENCE



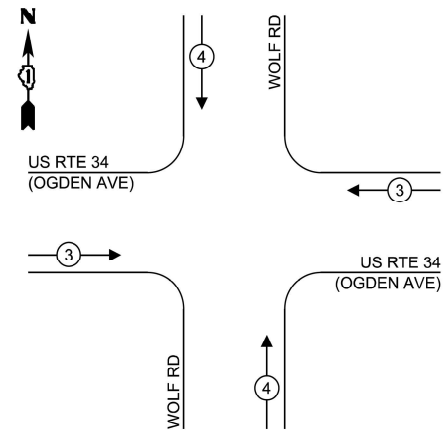
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4 +	5

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



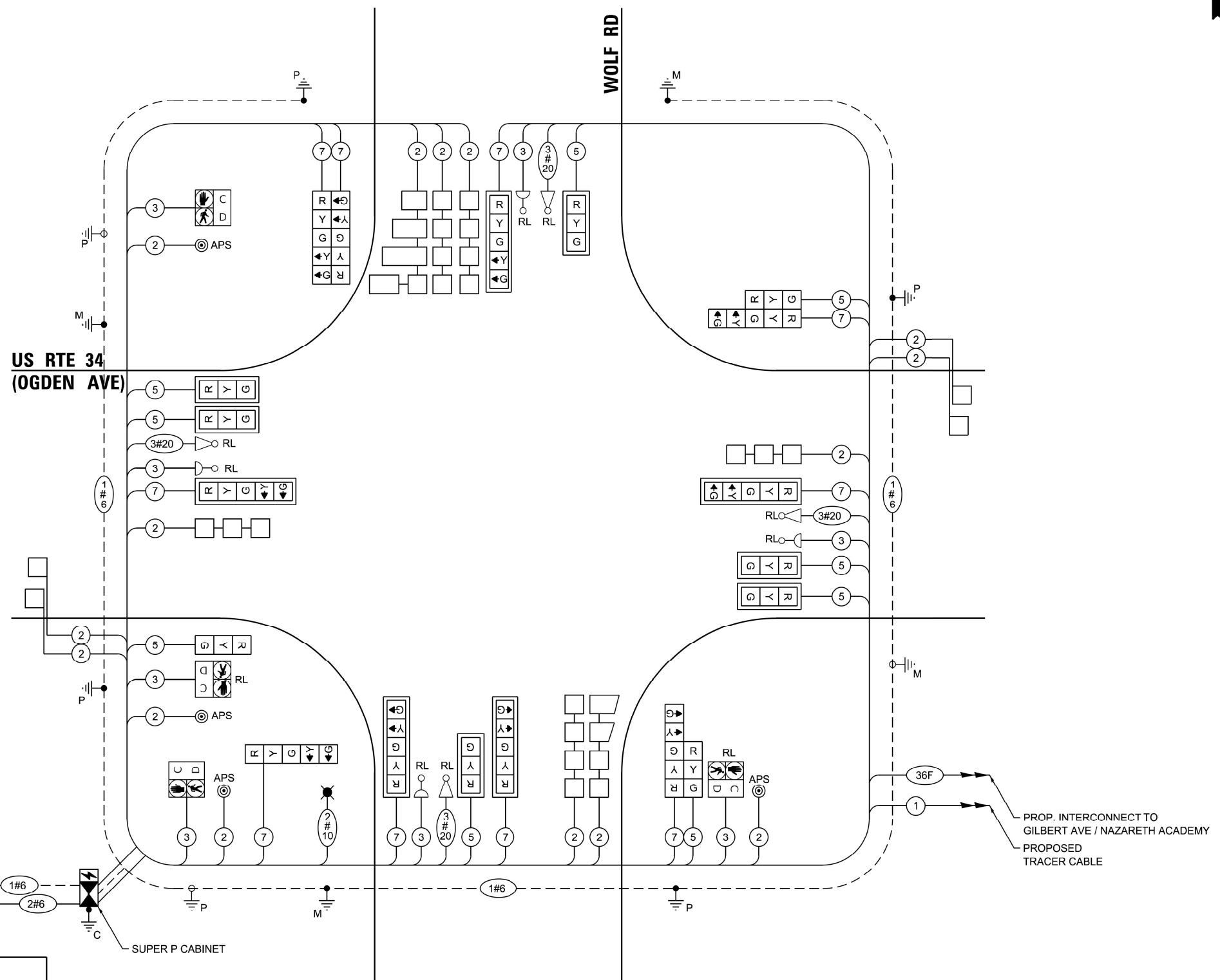
FILE NAME: MA_202403_CUI1803-2500 DOT_PTB_180 - Various Traffic Signal Design\Graphics\W02_23_03_61021_US_34_at_WolfCAD.dwg; Sheet: Proposed Cable Plan.dwg

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3 - SECTION	9	11	99
4 - SECTION	-	14	-
5 - SECTION	10	13	130
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL			
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION			
RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN			
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			464
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN	-	120	-
LUMINAIRE	1	240	240
TOTAL SERVICE WIRE SIZING =			1324

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER CT
 SCHAUMBURG, IL 60196

ENERGY SUPPLY:
 CONTACT: NICK TULEJA
 PHONE: (440) 796-8679
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 46196-57000



CABLE PLAN
(NOT TO SCALE)

NOTES:

- ALL RED INDICATIONS SHALL HAVE A LENS COVER.

TS 1480
EAGLE 5M

Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED - 8/12/2024
PLOT SCALE = 40.0000' / 1"	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 8/8/2024	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 6/26/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

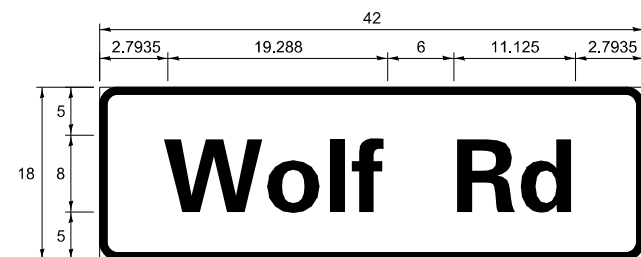
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 34 (OGDEN AVE) AT WOLF RD

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

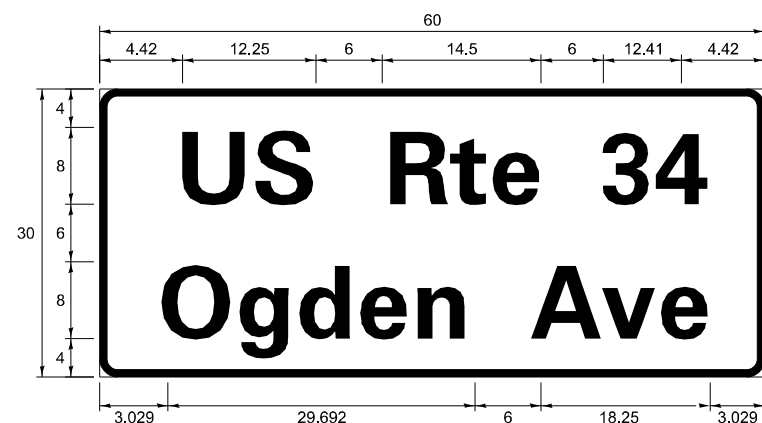
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2024-1011-TS.I.N.SW	COOK	71	34
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



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



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	12.5	2	ZZ	2

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	11
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	822
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	181
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	578
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	460
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1413
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1885
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1990
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2634
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	95
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	669
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	39
CONCRETE FOUNDATION, TYPE E, 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	11
DETECTOR LOOP, TYPE I	FOOT	1553
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	925
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
LED SIGNAL FACE, LENS COVER	FOOT	19

* 100% COST TO THE VILLAGE OF WESTERN SPRINGS

FILE NAME: M:\2019\3_Civil\18-03-5500 IDOT_PTB_190 - Various Traffic Signs\Design\Graphics\18-03-5500 IDOT_PTB_190 - Various Traffic Signs\Sheet_Mast_Arm_Signs & 500.dgn

Sam Schwartz
200 S. WACKER
SUITE 1400
CHICAGO, IL 60606
TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 6/26/2024	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 6/26/2024	REVISED -

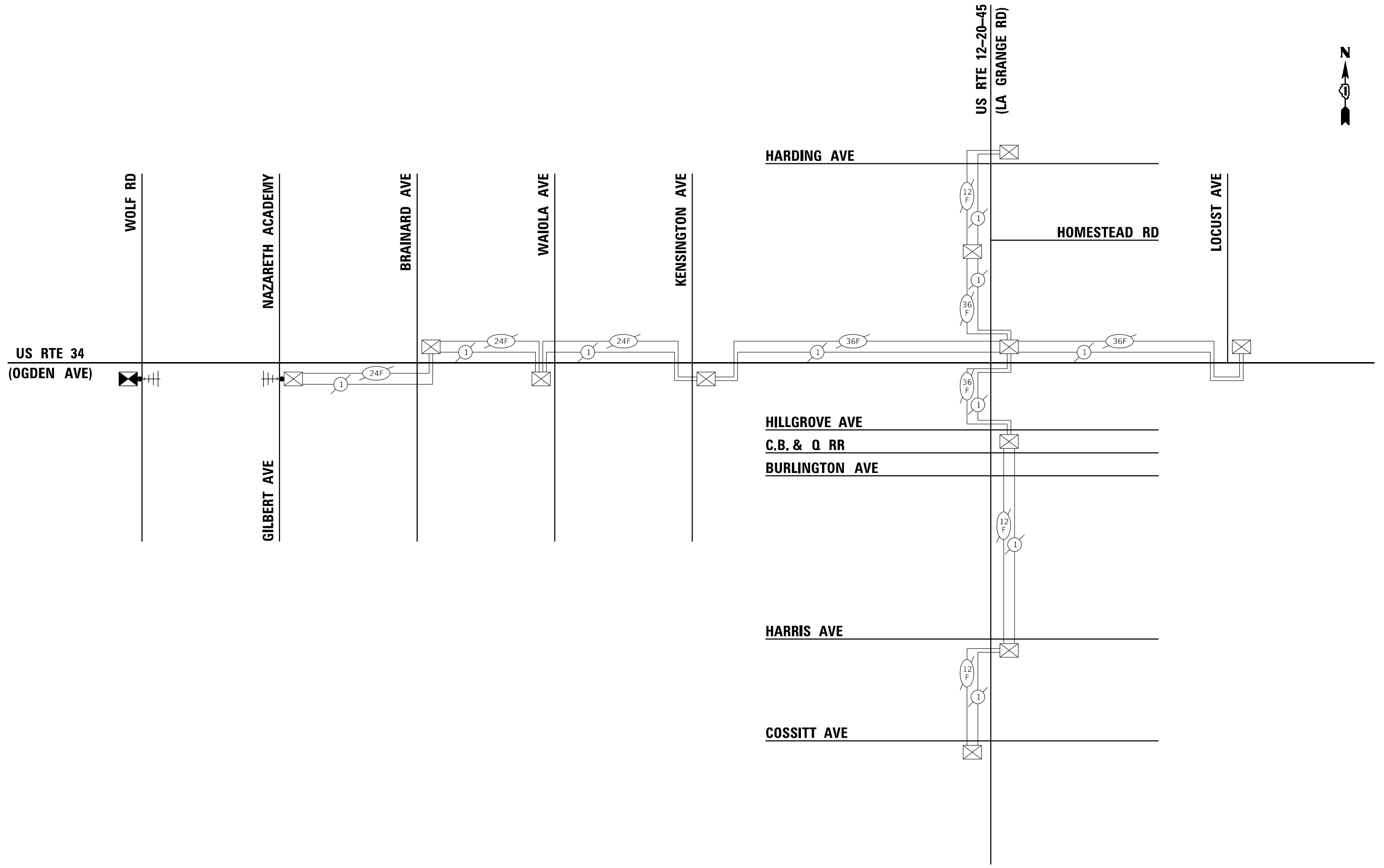
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 34 (OGDEN AVE) AT WOLF RD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	35
			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

**TS 1480
EAGLE 5M**



FILE NAME: M:\2019\3_Civil\8-03-5500 IDOT_PTB_190 - Various Traffic Signs\Design\Graphics\22-026-62U21_US 34 at Wolf\CAD\62U21_Sheet_Temporary Interconnect Schematic.dgn

Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = erica.salutz
PLOT SCALE = 100,0000' / in.
PLOT DATE = 6/26/2024

DESIGNED - ERICA SALUTZ	REVISED -
DRAWN - KATHLEEN MURPHY	REVISED -
CHECKED - PETER WOJTKIEWICZ	REVISED -
DATE - 6/26/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC
 US RTE 34 (OGDEN AVE) - WOLF RD TO LOCUST AVE
 US RTE 12-20-45 (LA GRANGE RD) - COSSITT AVE TO HARDING AVE**

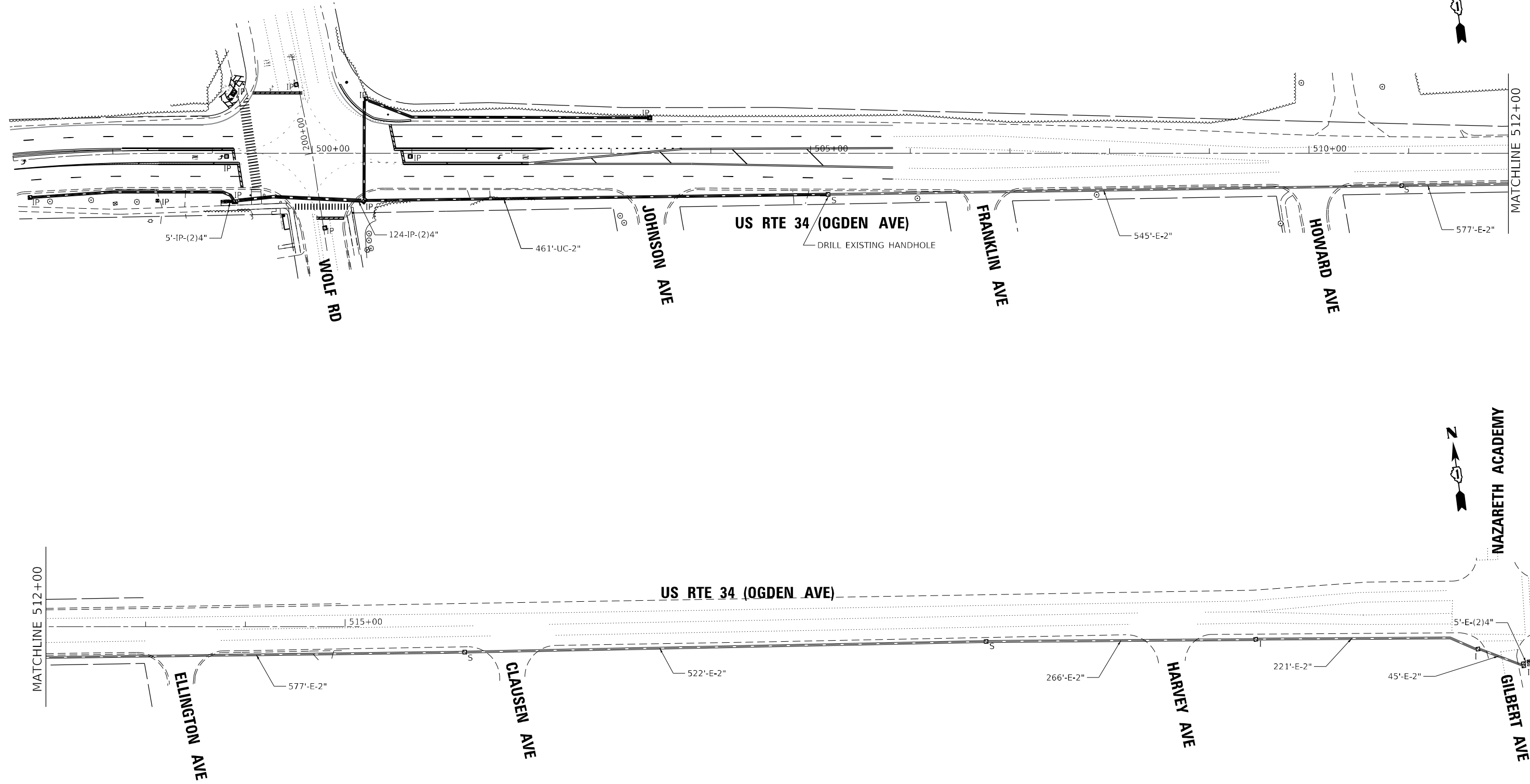
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 36
ILLINOIS			FED. AID PROJECT	

EAGLE 5M

CONTRACT NO. 62U21

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Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = erica.salutz
PLOT SCALE = 100,0000' / in.
PLOT DATE = 6/26/2024

DESIGNED - ERICA SALUTZ	REVISED -
DRAWN - KATHLEEN MURPHY	REVISED -
CHECKED - PETER WOJTKIEWICZ	REVISED -
DATE - 6/26/2024	REVISED -

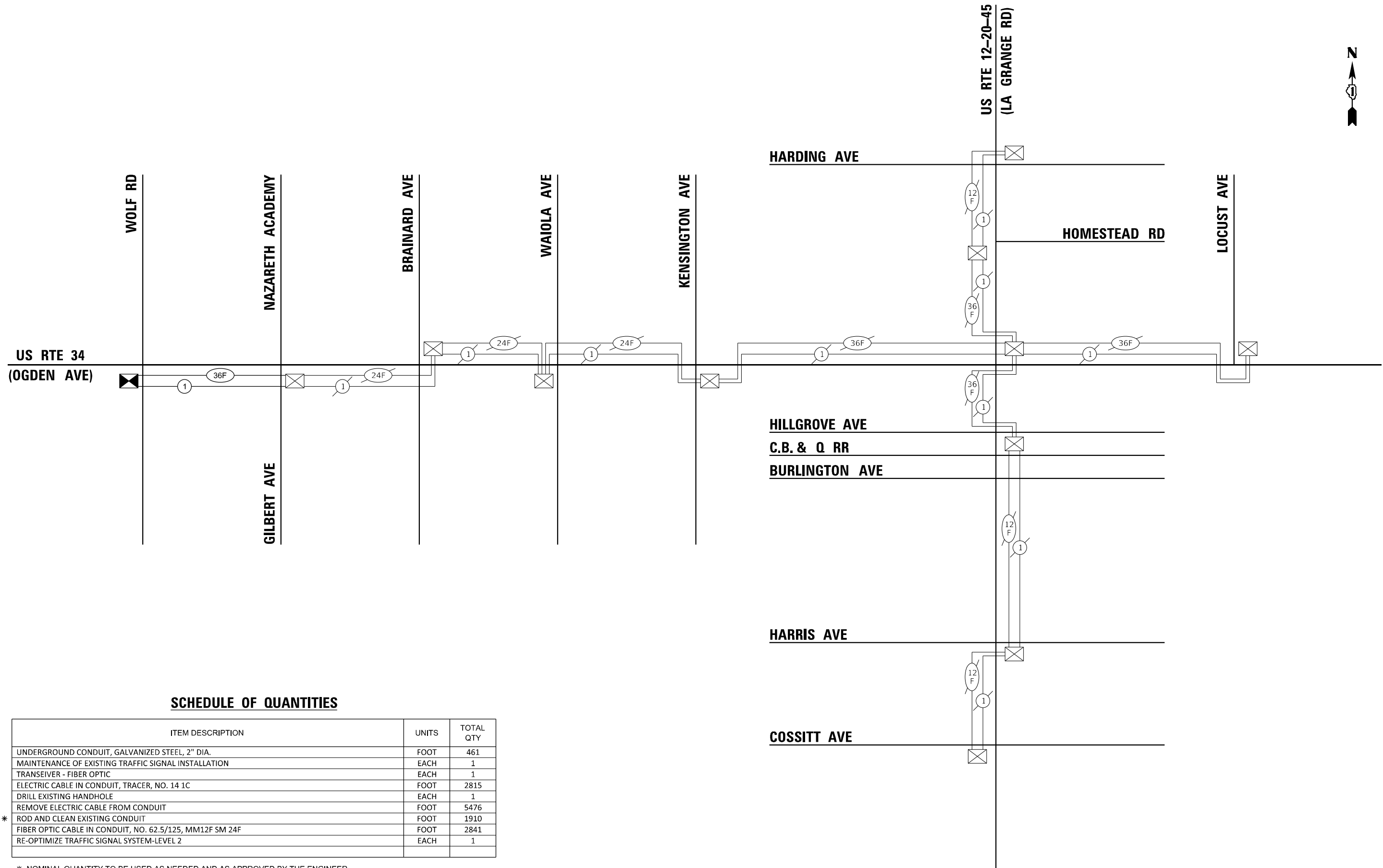
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN
 US RTE 34 AT WOLF RD**

SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	37
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

EAGLE 5M



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	461
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2815
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5476
* ROD AND CLEAN EXISTING CONDUIT	FOOT	1910
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM 24F	FOOT	2841
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM-LEVEL 2	EACH	1

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

FILE NAME: M:\2019\3_Civil\8-03-5500 IDOT_PTB_190 - Various Traffic Signs\Design\Graphics\NO. 22-026-62U21_US 34 at Wolf\CAD\62U21_Sheet_Interconnect_Schematic.dgn

Sam Schwartz
200 S. WACKER
SUITE 1400
CHICAGO, IL 60606
TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 6/26/2024	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 6/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
US RTE 34 (OGDEN AVE) - WOLF RD TO LOCUST AVE
US RTE 12-20-45 (LA GRANGE RD) - COSSITT AVE TO HARDING AVE**

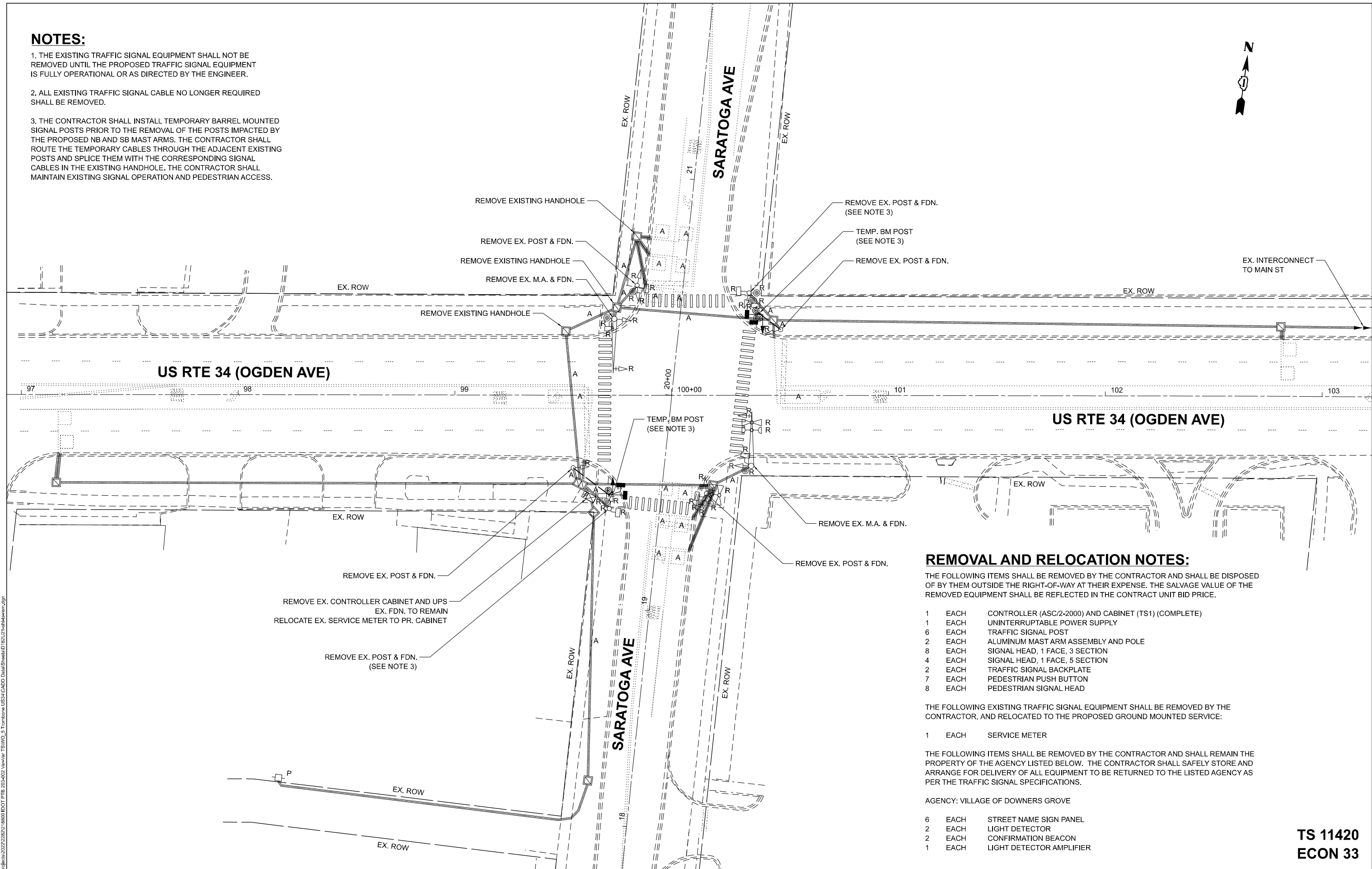
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U21	

EAGLE 5M

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. THE CONTRACTOR SHALL INSTALL TEMPORARY BARREL MOUNTED SIGNAL POSTS PRIOR TO THE REMOVAL OF THE POSTS IMPACTED BY THE PROPOSED NB AND SB MAST ARMS. THE CONTRACTOR SHALL ROUTE THE TEMPORARY CABLES THROUGH THE ADJACENT EXISTING POSTS AND SPLICE THEM WITH THE CORRESPONDING SIGNAL CABLES IN THE EXISTING HANDHOLE. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNAL OPERATION AND PEDESTRIAN ACCESS.



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER (ASC/2-2000) AND CABINET (TS1) (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY
- 6 EACH TRAFFIC SIGNAL POST
- 2 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 8 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 7 EACH PEDESTRIAN PUSH BUTTON
- 8 EACH PEDESTRIAN SIGNAL HEAD

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, AND RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE:

- 1 EACH SERVICE METER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF DOWNERS GROVE

- 6 EACH STREET NAME SIGN PANEL
- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

MODEL: TS 11420
 FILE NAME: X:\projects\2022\2822\18800\DOT\PTB_202402_Village_TSI\WO_5_Tombora_US34\CAD\DWG\SHARED\1820214444.dwg



USER NAME = dwtorzak	DESIGNED - ZH	REVISED -
DRAWN - RG	REVISED -	
PLOT SCALE = 40,000' = 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 6/26/2024	DATE - 6/28/2024	REVISED -

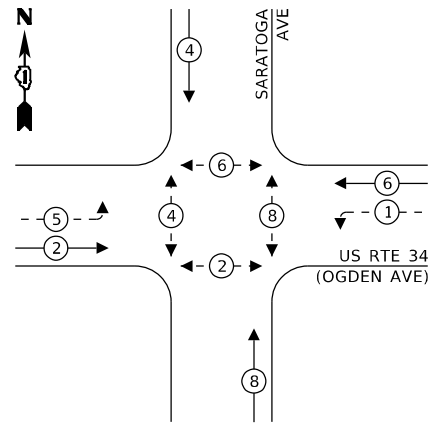
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
US RTE 34 (OGDEN AVE) AND SARATOGA AVE

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY DUPAGE	TOTAL SHEETS 71	SHEET NO. 39
SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

TS 11420
ECON 33

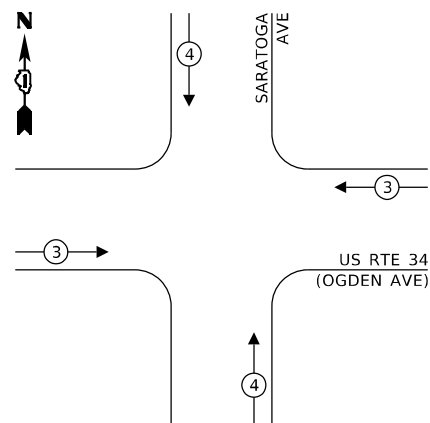
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



* THE TEMPORARY SIGNAL CABLES SHALL BE ROUTED TO AND THROUGH THE EXISTING SIGNAL POST ON THE SAME QUADRANT AND INTO THE EXISTING HANDHOLE WHERE THEY WILL BE SPliced WITH THE CORRESPONDING EXISTING SIGNAL CABLES TO MAINTAIN THE EXISTING SIGNAL OPERATION.

NOTE:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

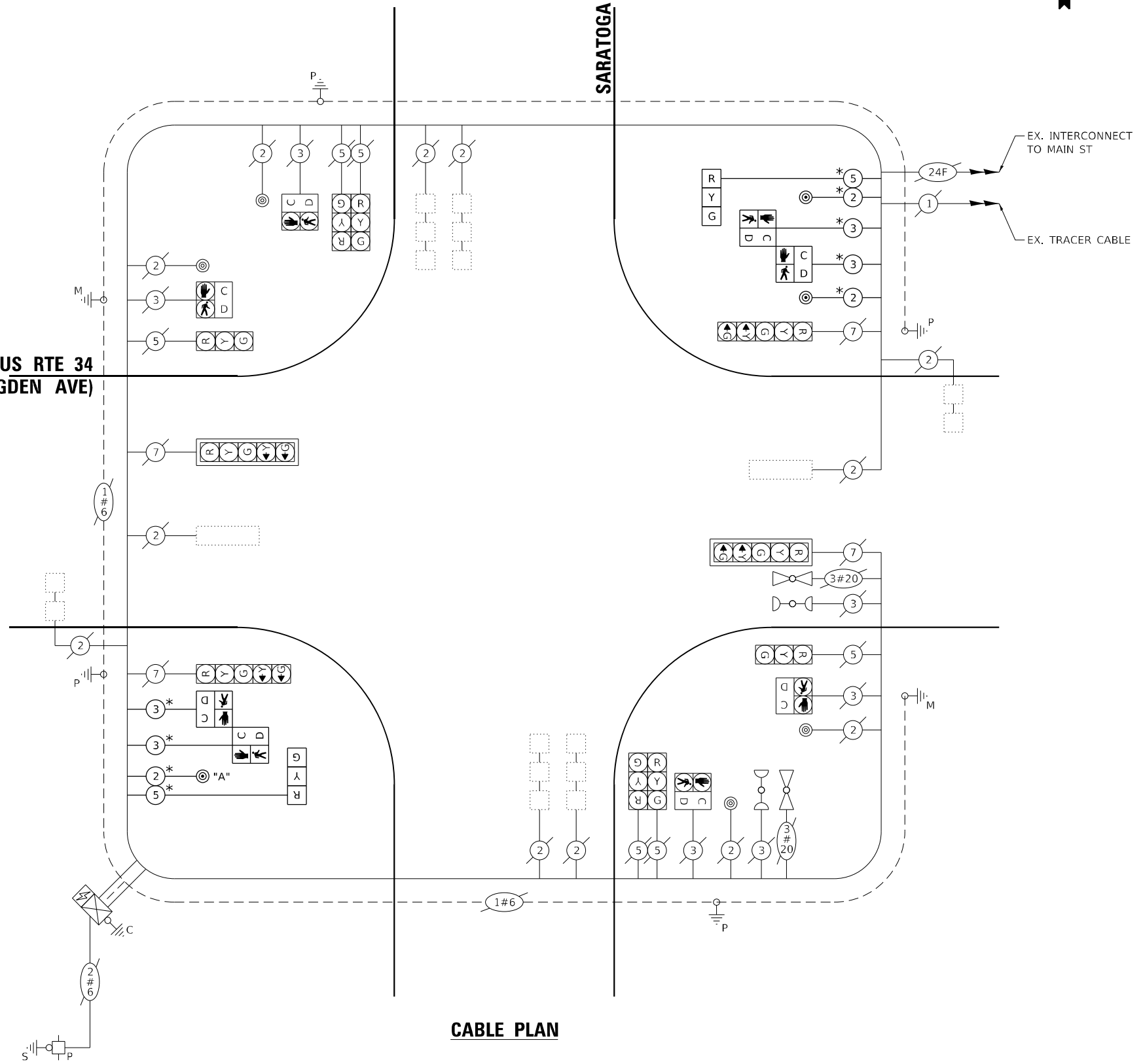
ENERGY COSTS TO:

VILLAGE OF DOWNERS GROVE
804 BURLINGTON AVE
DOWNERS GROVE, IL 60515

ENERGY SUPPLY: CONTACT: NICK TULEJA
PHONE: (440) 796-8979
COMPANY: COMED
ACCOUNT NUMBER: 55212-12222
METER NUMBER: 272138303

**US RTE 34
(OGDEN AVE)**

SARATOGA AVE



CABLE PLAN

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS			
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	8	11	88
4-SECTION	-	14	-
5-SECTION	4	13	52
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL 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			435
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			1,040

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARTIAL TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 34 (OGDEN AVE) AND SARATOGA AVE**

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

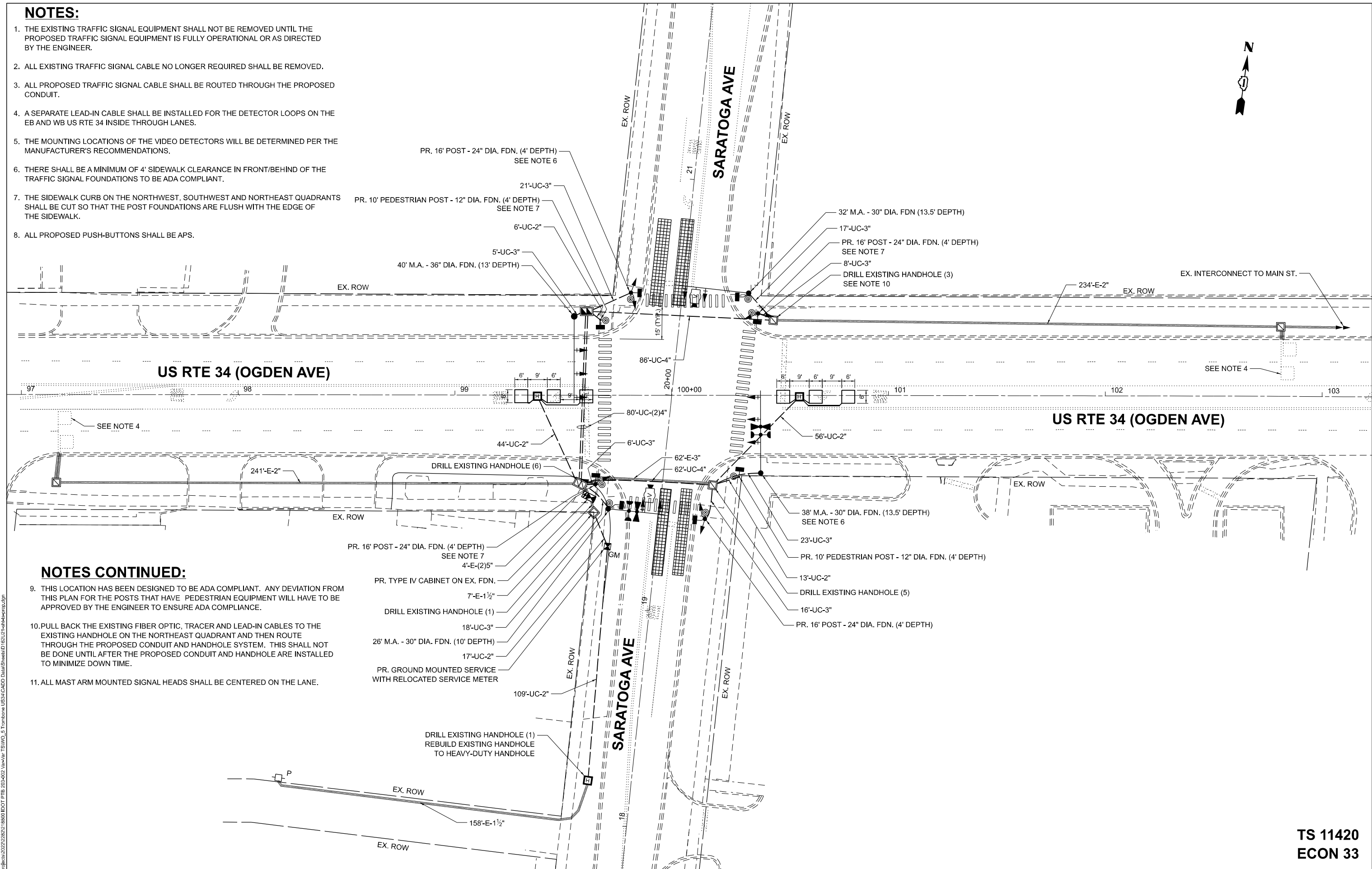
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2024-1011-TS,I,N,SW	DUPAGE	71	40
			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

**TS 11420
ECON 33**

MODEL: Default
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NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE EB AND WB US RTE 34 INSIDE THROUGH LANES.
5. THE MOUNTING LOCATIONS OF THE VIDEO DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
6. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
7. THE SIDEWALK CURB ON THE NORTHWEST, SOUTHWEST AND NORTHEAST QUADRANTS SHALL BE CUT SO THAT THE POST FOUNDATIONS ARE FLUSH WITH THE EDGE OF THE SIDEWALK.
8. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.



NOTES CONTINUED:

9. 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.
10. PULL BACK THE EXISTING FIBER OPTIC, TRACER AND LEAD-IN CABLES TO THE EXISTING HANDHOLE ON THE NORTHEAST QUADRANT AND THEN ROUTE THROUGH THE PROPOSED CONDUIT AND HANDHOLE SYSTEM. THIS SHALL NOT BE DONE UNTIL AFTER THE PROPOSED CONDUIT AND HANDHOLE ARE INSTALLED TO MINIMIZE DOWN TIME.
11. ALL MAST ARM MOUNTED SIGNAL HEADS SHALL BE CENTERED ON THE LANE.

MODEL: TS 11420
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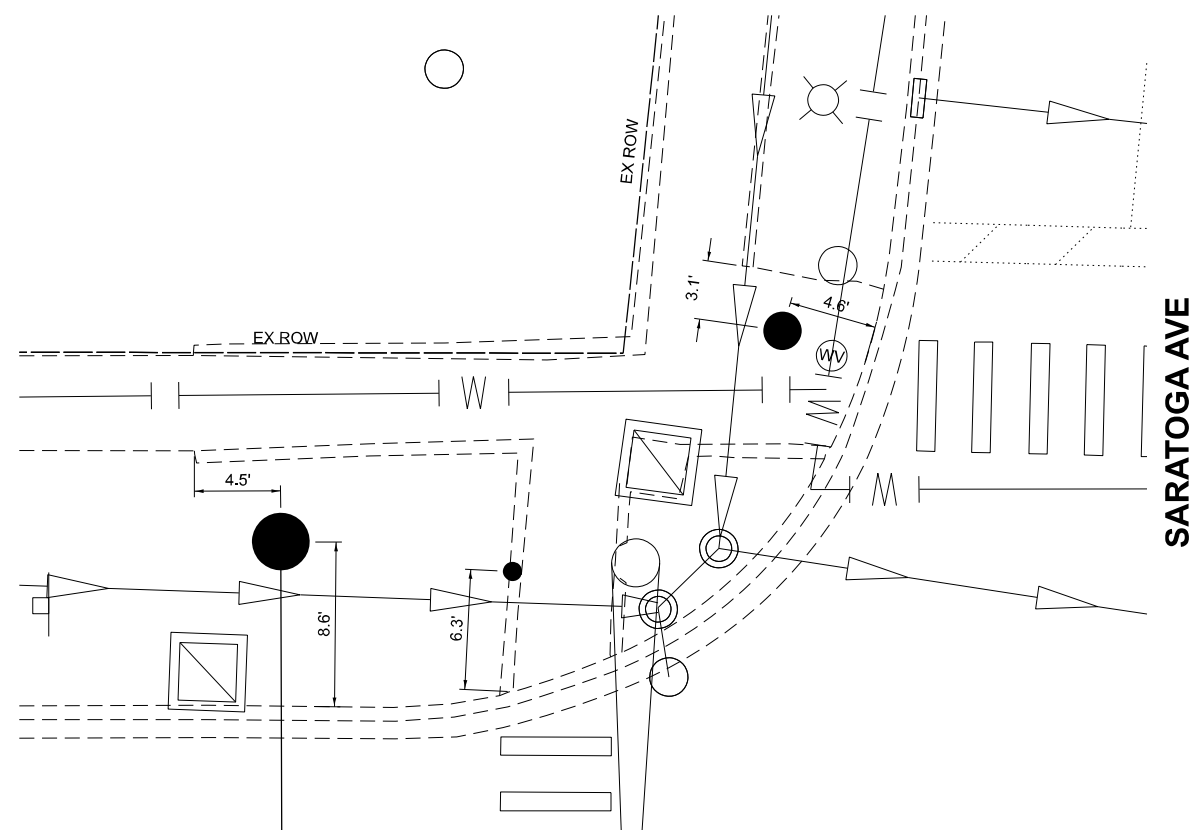
USER NAME = dwtkorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1" =	CHECKED - DW	REVISED -
PLOT DATE = 6/26/2024	DATE - 6/28/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 34 (OGDEN AVE) AND SARATOGA AVE

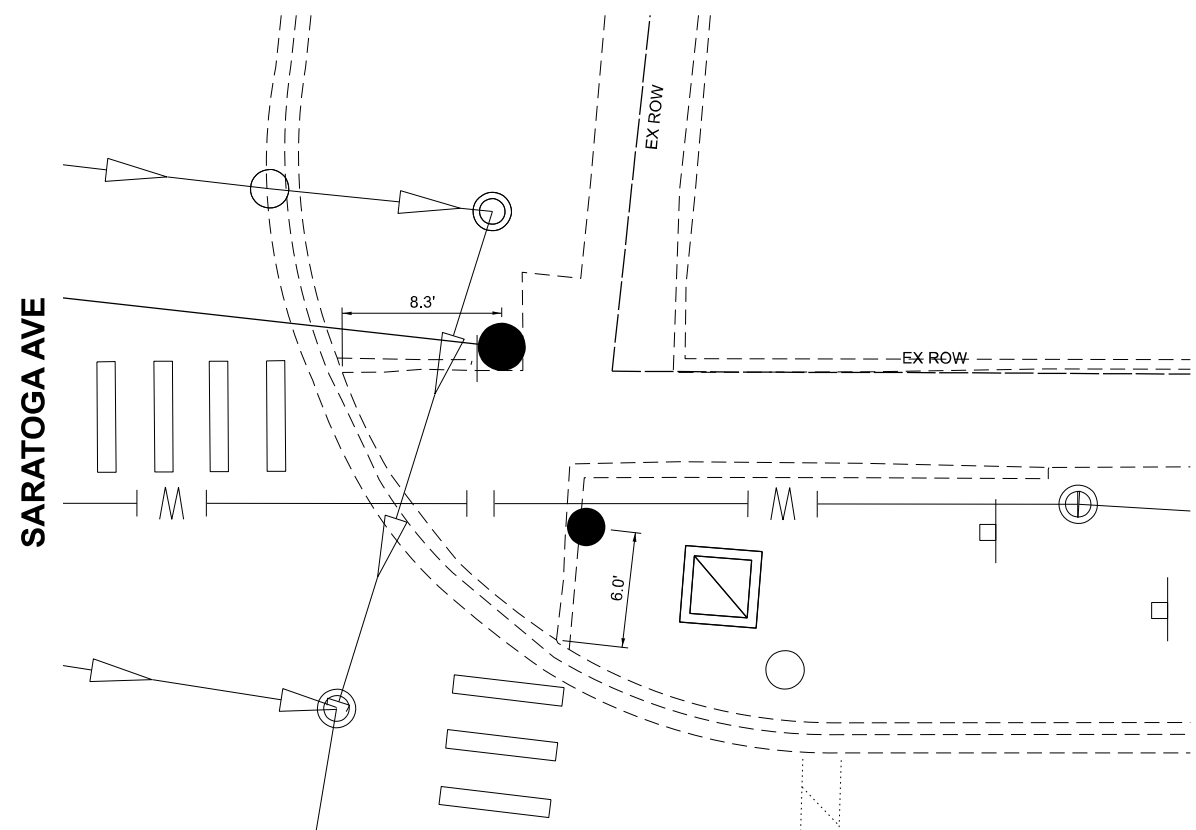
F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY	TOTAL SHEETS 71	SHEET NO. 41
			CONTRACT NO. 62U21	
SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		

TS 11420
ECON 33



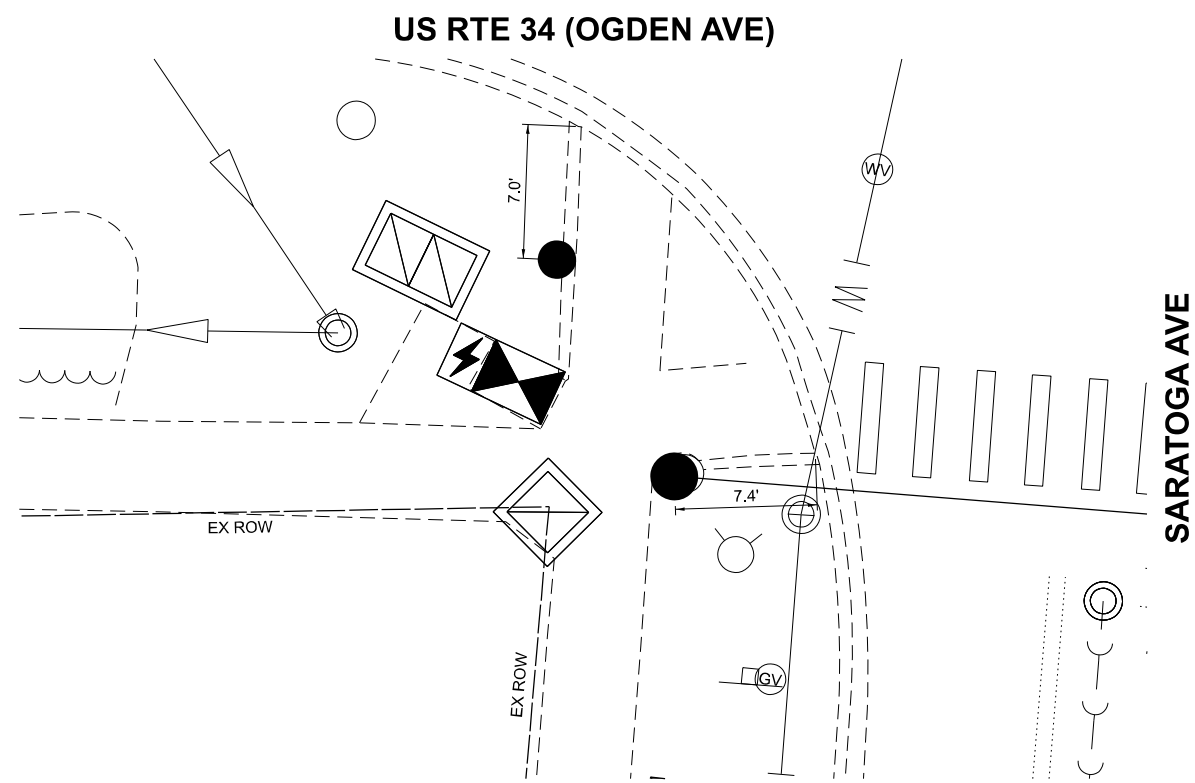
US RTE 34 (OGDEN AVE)

SARATOGA AVE



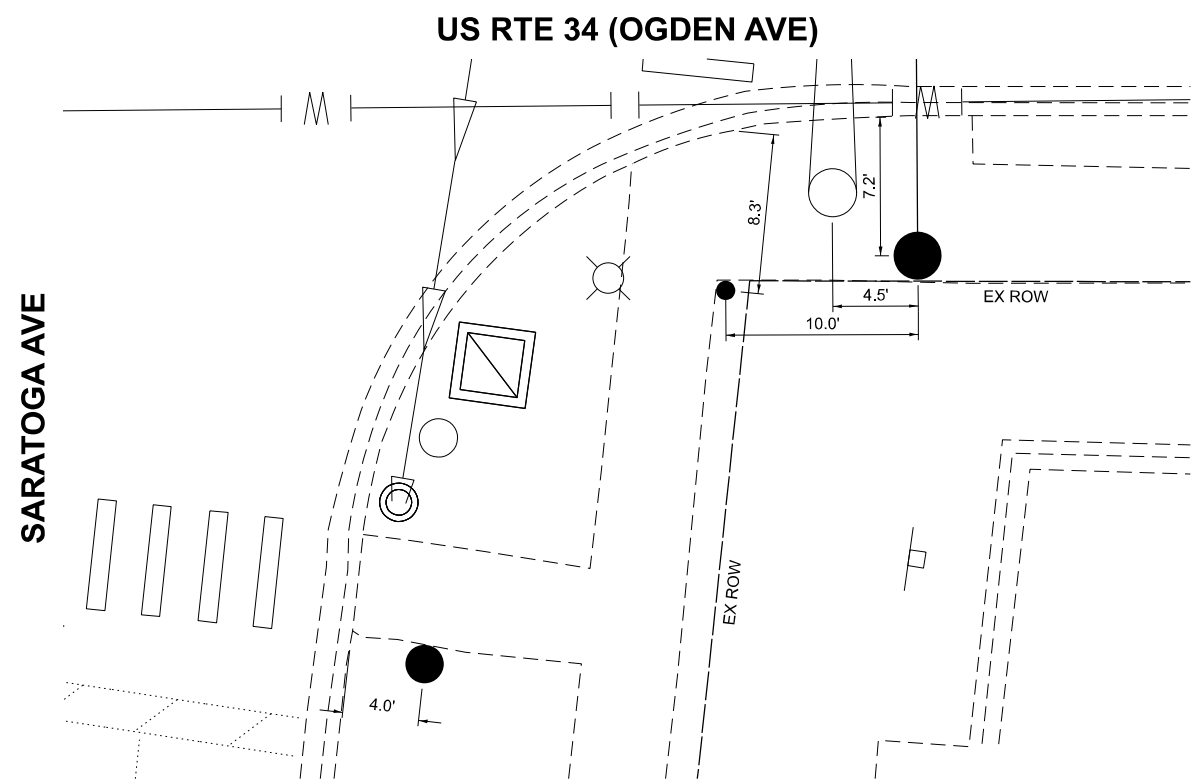
US RTE 34 (OGDEN AVE)

SARATOGA AVE



US RTE 34 (OGDEN AVE)

SARATOGA AVE



US RTE 34 (OGDEN AVE)

SARATOGA AVE



TS 11420
ECON 33

MODEL: TS 11420
FILE NAME: X:\projects\2022\2822\11420\DOT\PTB_202402_Vpn\47_TSI\W0_5_Trombone_US34\CADD_Data\SheetID1620214444-ADA.dgn



USER NAME = dwtkorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 10,000' / 1 in.	CHECKED - DW	REVISED -
PLOT DATE = 6/28/2024	DATE - 6/28/2024	REVISED -

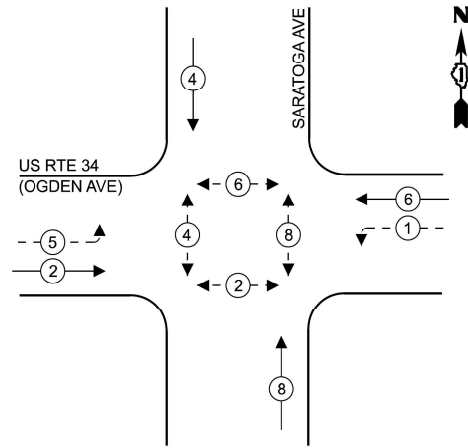
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLACEMENT DETAILS
US RTE 34 (OGDEN AVE) AND SARATOGA AVE

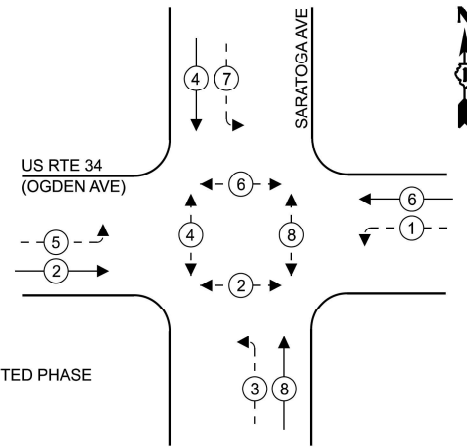
SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY	TOTAL SHEETS 71	SHEET NO. 42
			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

**EXISTING
CONTROLLER SEQUENCE**



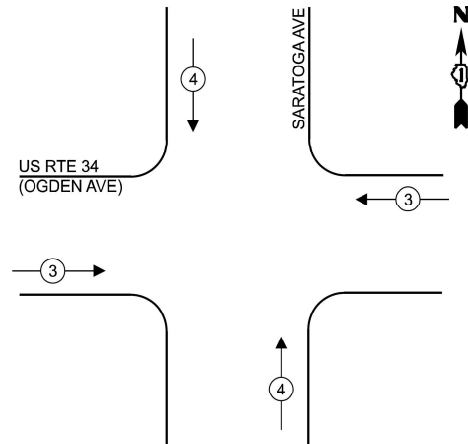
**PROPOSED
CONTROLLER SEQUENCE**



LEGEND

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

**EXISTING AND PROPOSED
EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL
SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	10	11	110
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			549
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			1154

ENERGY COSTS TO:
VILLAGE OF DOWNERS GROVE

801 BURLINGTON AVE
DOWNERS GROVE, IL 60515

ENERGY SUPPLY:

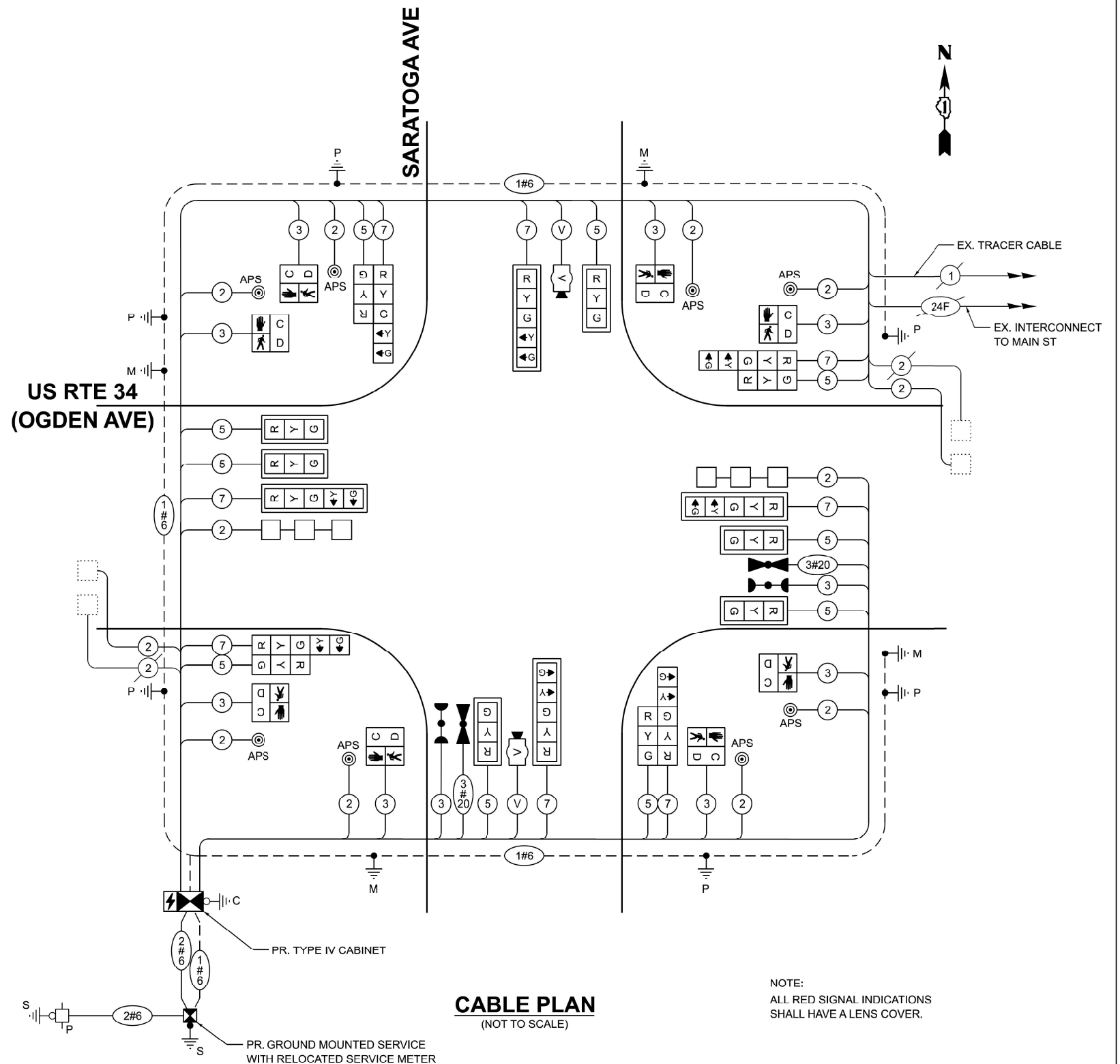
CONTACT: NICK TULEJA

PHONE: (440)-796-8979

COMPANY: CCMED

ACCOUNT NUMBER: 55212-12222

METER NUMBER: 272138303



**CABLE PLAN
(NOT TO SCALE)**

NOTE:
ALL RED SIGNAL INDICATIONS
SHALL HAVE A LENS COVER.

MODEL: TS 11420
 FILE NAME: X:\p19\1011011\2024\2822\1880\DOT_PTB_201-002\1011-1880_TSI\1011-1880-TS11420.dwg



USER NAME = dwiktorzak
 PLOT SCALE = 40,000' / in.
 PLOT DATE = 6/26/2024

DESIGNED - ZH	REVISED - 8/12/2024
DRAWN - RG	REVISED -
CHECKED - DW	REVISED -
DATE - 6/28/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 34 (OGDEN AVE) AND SARATOGA AVE**

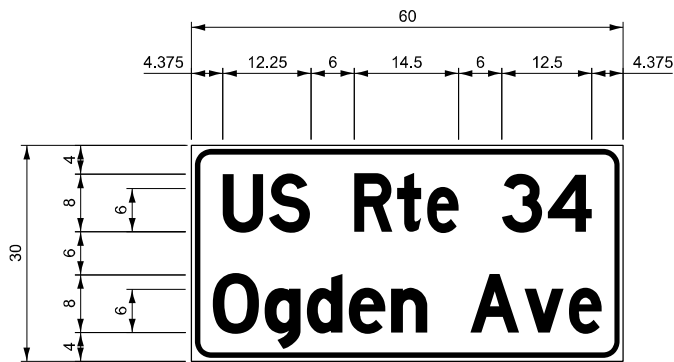
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62U21			ILLINOIS FED. AID PROJECT	

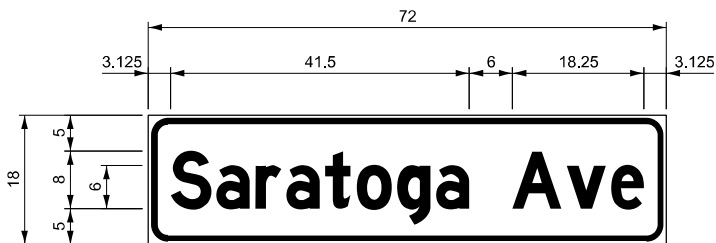
**TS 11420
ECON 33**

SIGN PANEL - TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.0	1	ZZ	2

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
SIGN PANEL - TYPE 1	SQ FT	18
SIGN PANEL - TYPE 2	SQ FT	25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	245
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	114
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	308
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1060
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1380
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1565
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1280
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	940
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	335
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	695
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
DRILL EXISTING HANDHOLE	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	204
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1105
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	585
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	265
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	18
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
TEMPORARY INFORMATION SIGNING	SQ FT	25.7
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* 100% COST TO THE VILLAGE OF DOWNERS GROVE

MODEL: TS 11420
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**TS 11420
ECON 33**



USER NAME = dwtortzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / in	CHECKED - DW	REVISED -
PLOT DATE = 6/26/2024	DATE - 6/28/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 34 (OGDEN AVE) AND SARATOGA AVE**

F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY DUPAGE	TOTAL SHEETS 71	SHEET NO. 44
SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

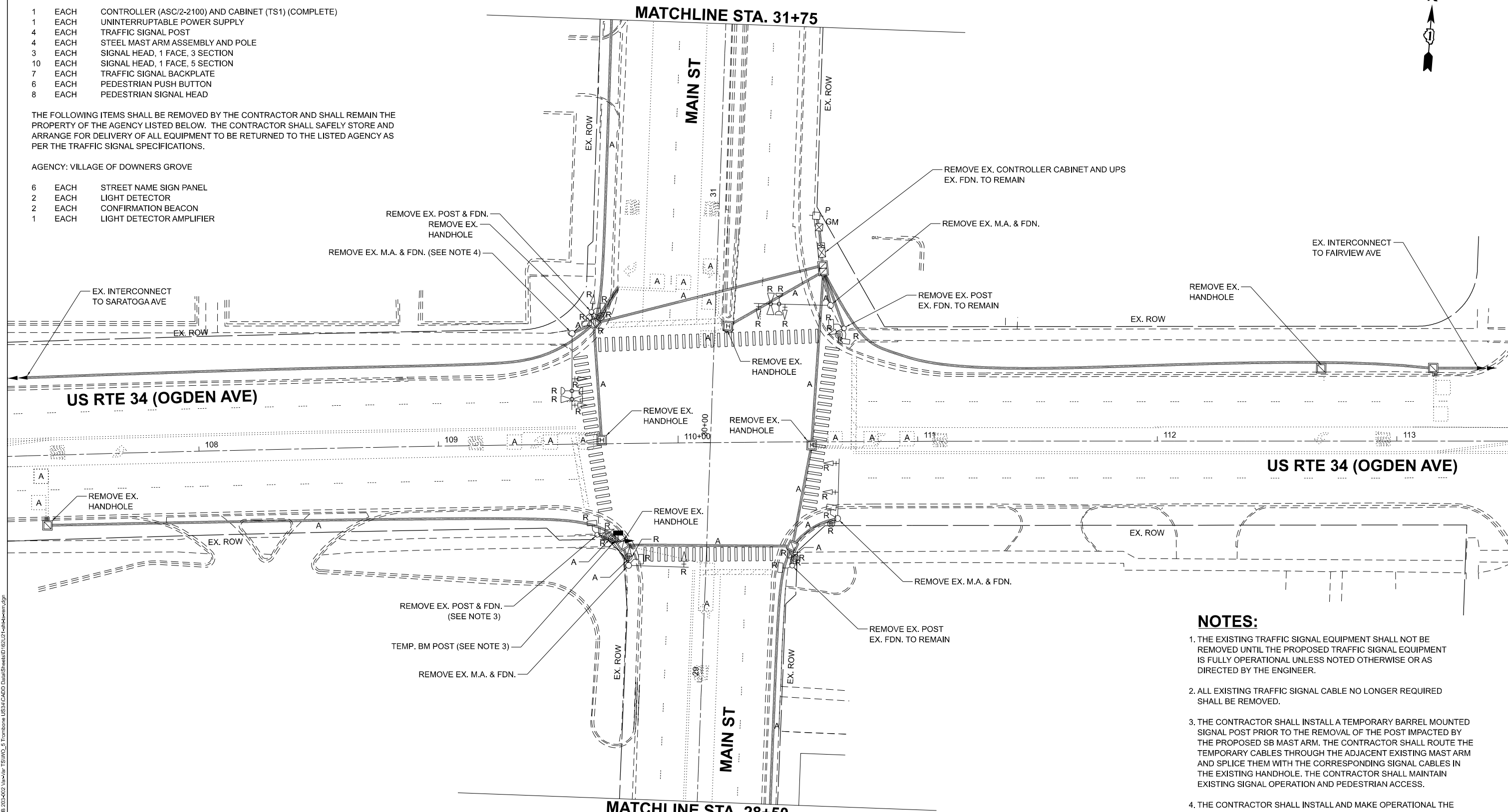
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2-2100) AND CABINET (TS1) (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY
- 4 EACH TRAFFIC SIGNAL POST
- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 10 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 7 EACH TRAFFIC SIGNAL BACKPLATE
- 6 EACH PEDESTRIAN PUSH BUTTON
- 8 EACH PEDESTRIAN SIGNAL HEAD

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF DOWNERS GROVE

- 6 EACH STREET NAME SIGN PANEL
- 2 EACH LIGHT DETECTOR
- 2 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER



- NOTES:**
1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
 3. THE CONTRACTOR SHALL INSTALL A TEMPORARY BARREL MOUNTED SIGNAL POST PRIOR TO THE REMOVAL OF THE POST IMPACTED BY THE PROPOSED SB MAST ARM. THE CONTRACTOR SHALL ROUTE THE TEMPORARY CABLES THROUGH THE ADJACENT EXISTING MAST ARM AND SPLICE THEM WITH THE CORRESPONDING SIGNAL CABLES IN THE EXISTING HANDHOLE. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNAL OPERATION AND PEDESTRIAN ACCESS.
 4. THE CONTRACTOR SHALL INSTALL AND MAKE OPERATIONAL THE PROPOSED WB MAST ARM PRIOR TO REMOVING THE EXISTING WB MAST ARM. THE CONTRACTOR SHALL THEN INSTALL THE PROPOSED 10' PEDESTRIAN POST.

**TS 11425
ECON 33**

MODEL: TS 11425
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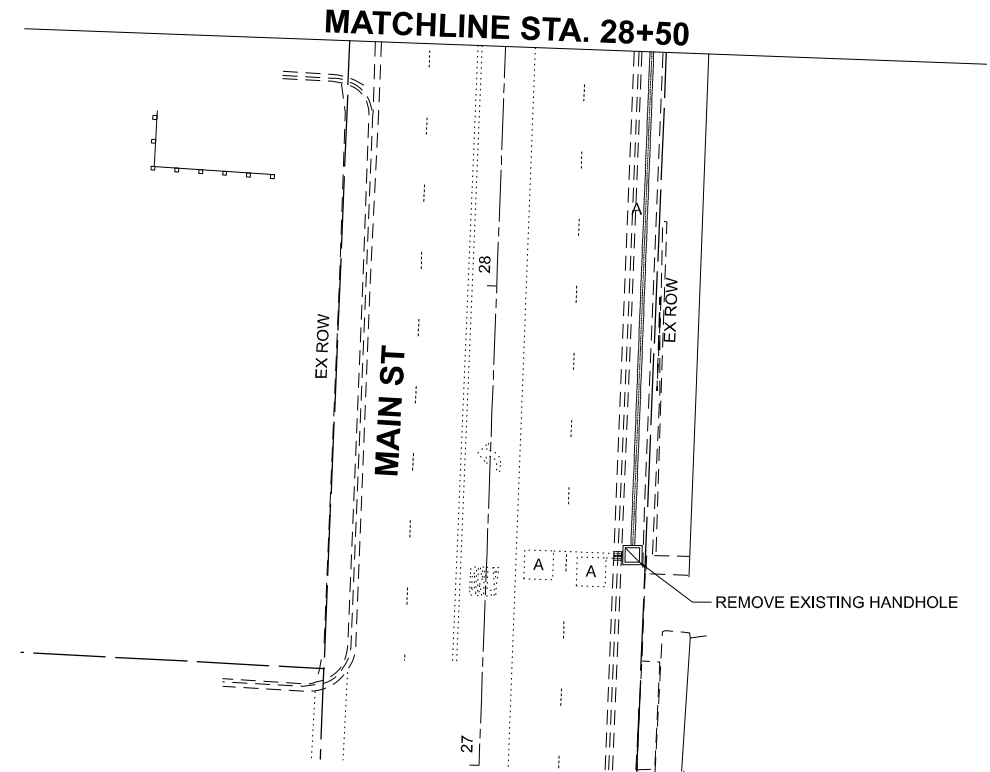
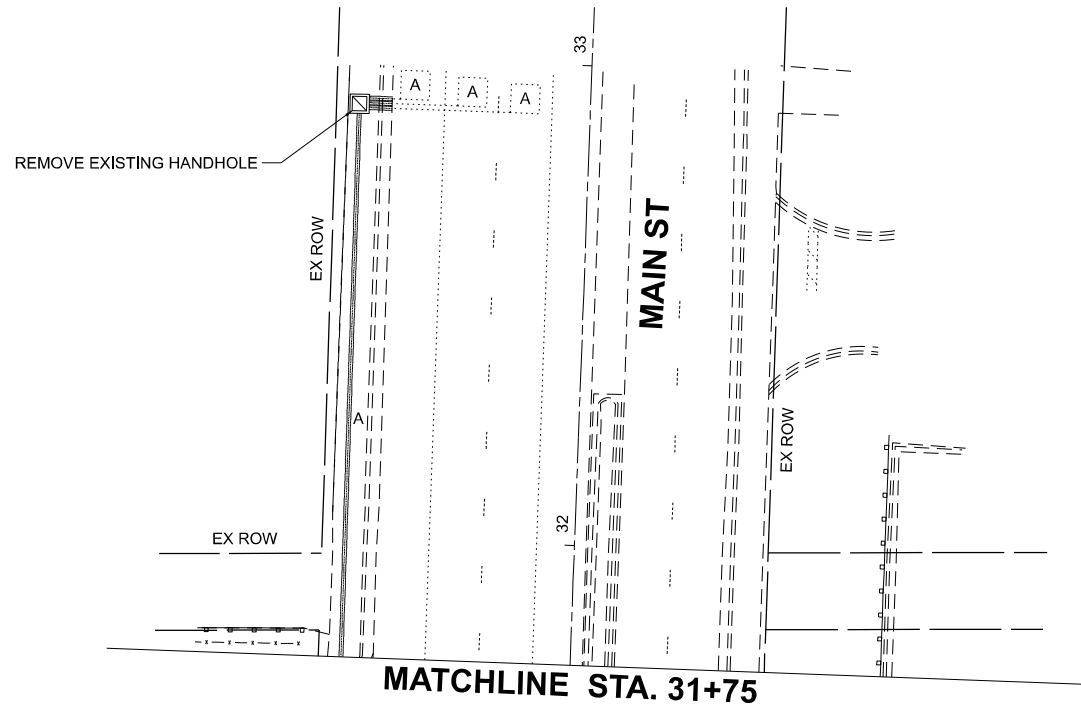
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DRAWN - RG	REVISED -	
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PLOT DATE = 6/26/2024	DATE - 6/28/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
US RTE 34 (OGDEN AVE) AND MAIN ST (SHEET 1 OF 2)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	DUPAGE	71	45
CONTRACT NO. 62U21			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.



NOTES:

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

**TS 11425
ECON 33**

MODEL: TS 11425
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	DRAWN - RG	REVISED -
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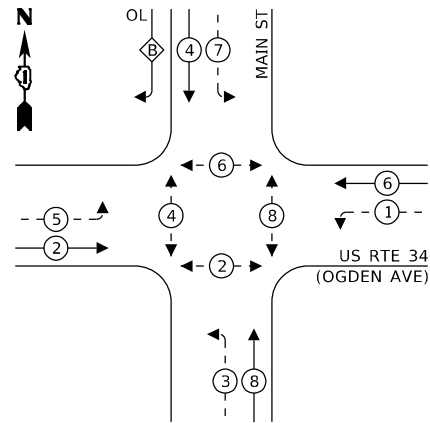
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
US RTE 34 (OGDEN AVE) AND MAIN ST (SHEET 2 OF 2)**

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	DUPAGE	71	46
CONTRACT NO. 62U21			ILLINOIS FED. AID PROJECT	

EXISTING CONTROLLER SEQUENCE



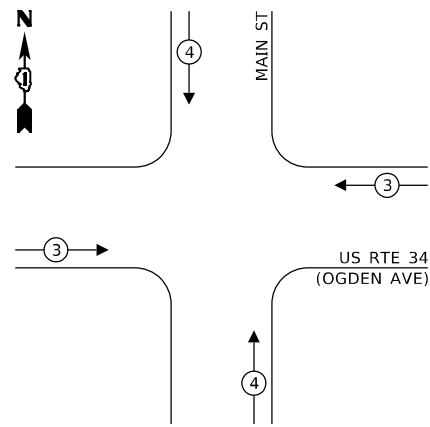
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

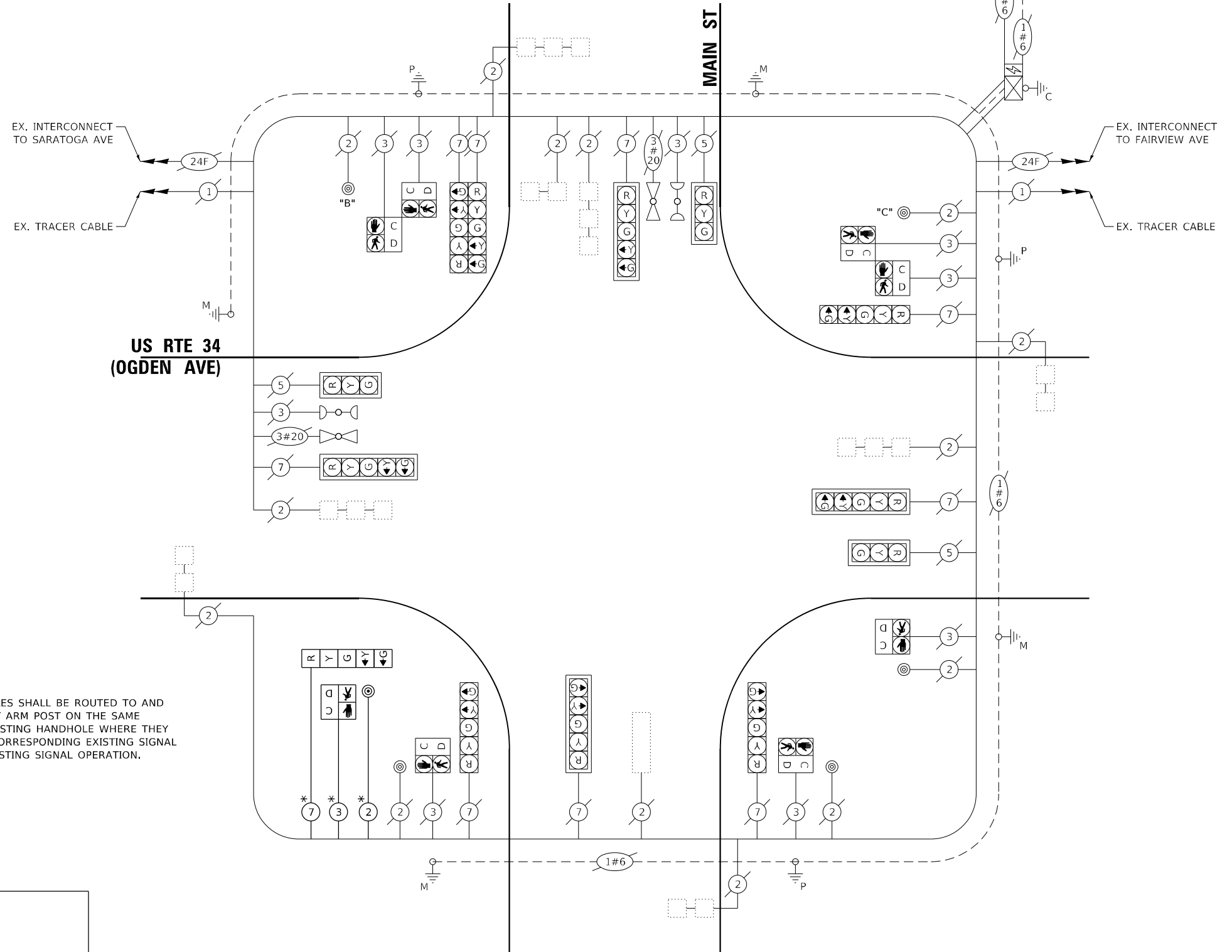
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTE:

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8



CABLE PLAN

* THE TEMPORARY SIGNAL CABLES SHALL BE ROUTED TO AND THROUGH THE EXISTING MAST ARM POST ON THE SAME QUADRANT AND INTO THE EXISTING HANDHOLE WHERE THEY WILL BE SPLICED WITH THE CORRESPONDING EXISTING SIGNAL CABLES TO MAINTAIN THE EXISTING SIGNAL OPERATION.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	3	11	33
4-SECTION	-	14	-
5-SECTION	10	13	130
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	8	15	120
MASTER CONTROLLER	1	150	150
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		458	
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		1,063	

ENERGY COSTS TO:
 VILLAGE OF DOWNERS GROVE
 804 BURLINGTON AVE
 DOWNERS GROVE, IL 60515
 ENERGY SUPPLY: CONTACT: NICK TULEJA
 PHONE: (440) 796-8979
 COMPANY: COMED
 ACCOUNT NUMBER: 55212-12222
 METER NUMBER: 272262031

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PARTIAL TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 US RTE 34 (OGDEN AVE) AND MAIN ST

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2024-1011-TS,I,N,SW	DUPAGE	71	47
				CONTRACT NO. 62U21
ILLINOIS FED. AID PROJECT				

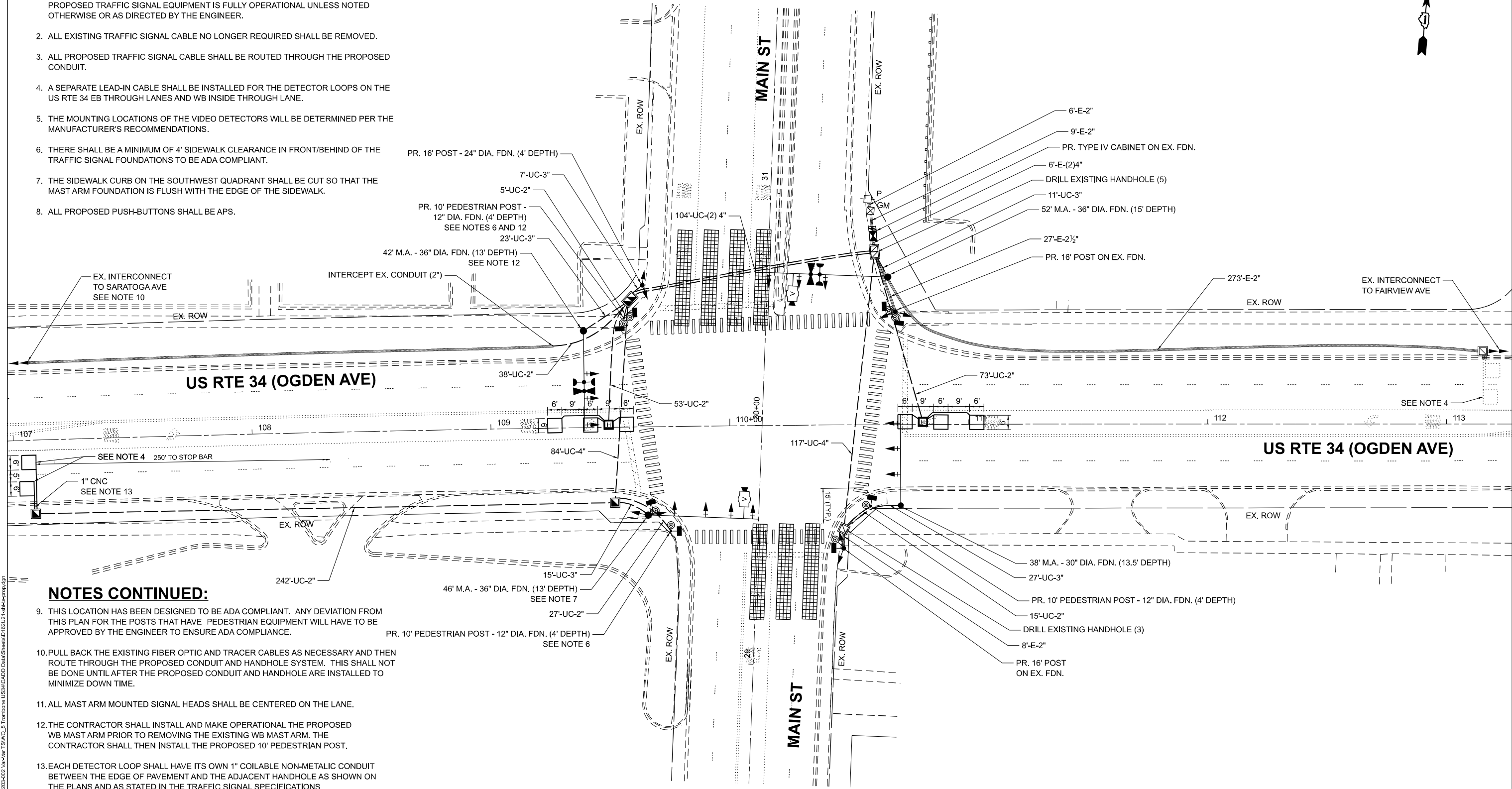
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TS 11425
 ECON 33

SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOPS ON THE US RTE 34 EB THROUGH LANES AND WB INSIDE THROUGH LANE.
5. THE MOUNTING LOCATIONS OF THE VIDEO DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
6. THERE SHALL BE A MINIMUM OF 4' SIDEWALK CLEARANCE IN FRONT/BEHIND OF THE TRAFFIC SIGNAL FOUNDATIONS TO BE ADA COMPLIANT.
7. THE SIDEWALK CURB ON THE SOUTHWEST QUADRANT SHALL BE CUT SO THAT THE MAST ARM FOUNDATION IS FLUSH WITH THE EDGE OF THE SIDEWALK.
8. ALL PROPOSED PUSH-BUTTONS SHALL BE APS.



NOTES CONTINUED:

9. 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.
10. PULL BACK THE EXISTING FIBER OPTIC AND TRACER CABLES AS NECESSARY AND THEN ROUTE THROUGH THE PROPOSED CONDUIT AND HANDHOLE SYSTEM. THIS SHALL NOT BE DONE UNTIL AFTER THE PROPOSED CONDUIT AND HANDHOLE ARE INSTALLED TO MINIMIZE DOWNTIME.
11. ALL MAST ARM MOUNTED SIGNAL HEADS SHALL BE CENTERED ON THE LANE.
12. THE CONTRACTOR SHALL INSTALL AND MAKE OPERATIONAL THE PROPOSED WB MAST ARM PRIOR TO REMOVING THE EXISTING WB MAST ARM. THE CONTRACTOR SHALL THEN INSTALL THE PROPOSED 10' PEDESTRIAN POST.
13. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

MODEL: TS 11425
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USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,000' / 1"	CHECKED - DW	REVISED -
PLOT DATE = 6/26/2024	DATE - 6/28/2024	REVISED -

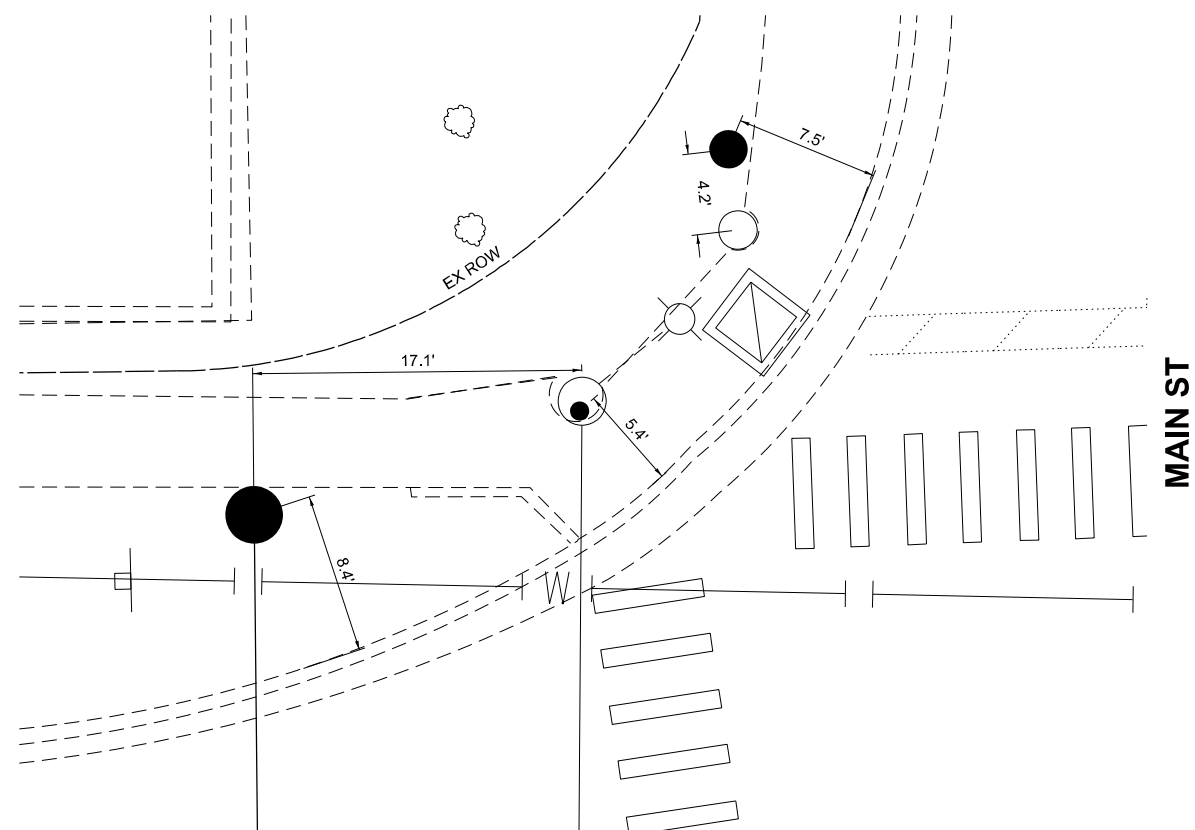
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 34 (OGDEN AVE) AND MAIN ST

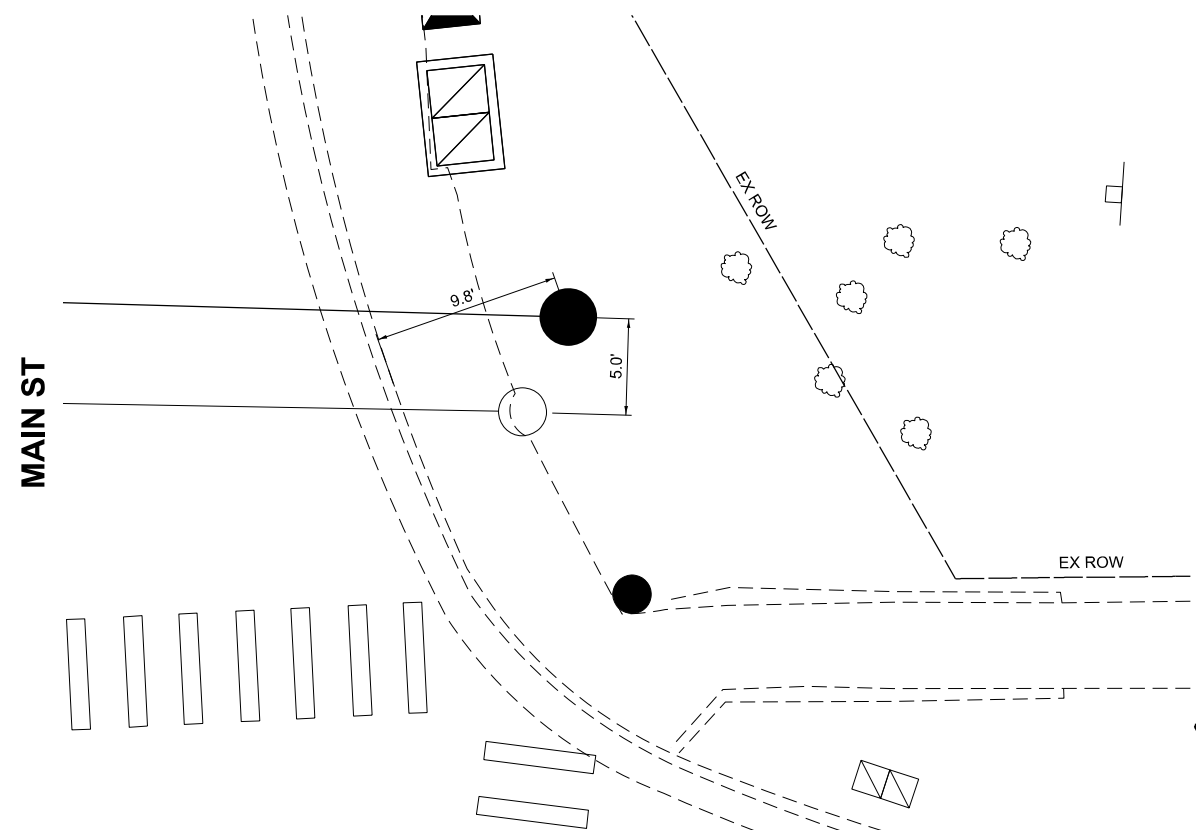
SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	DUPAGE	71	48
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

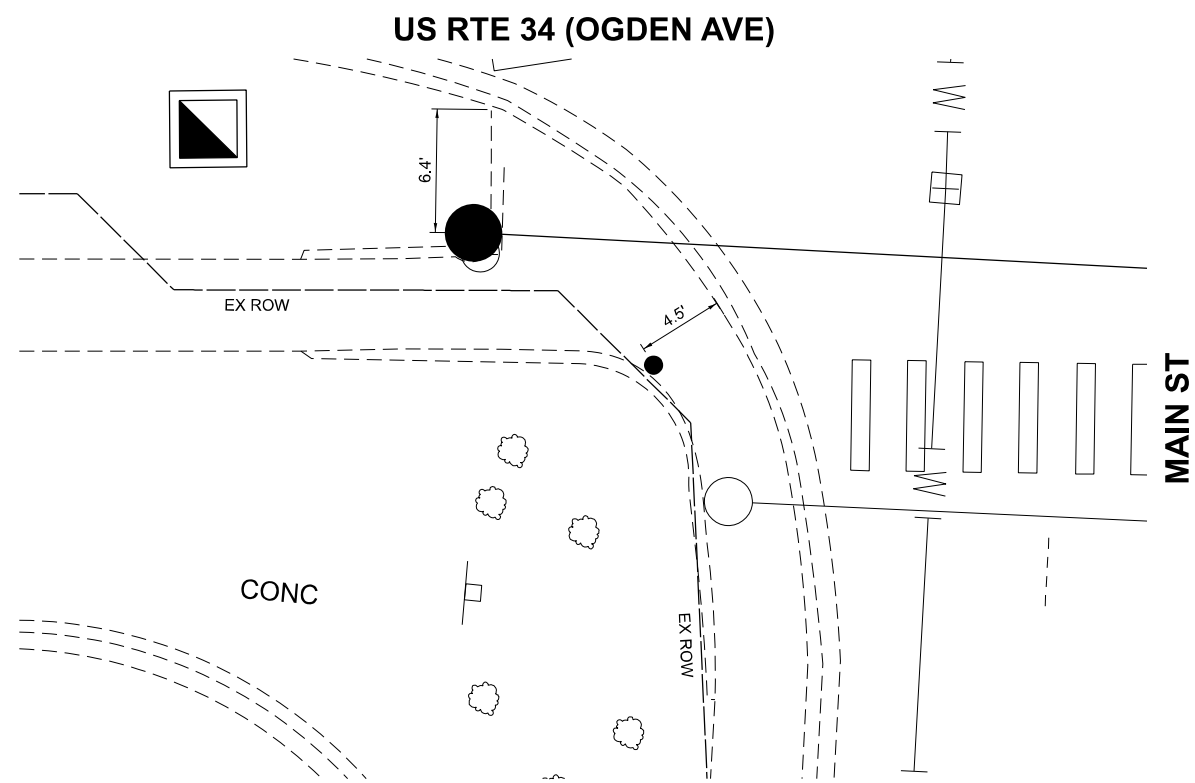
TS 11425
ECON 33



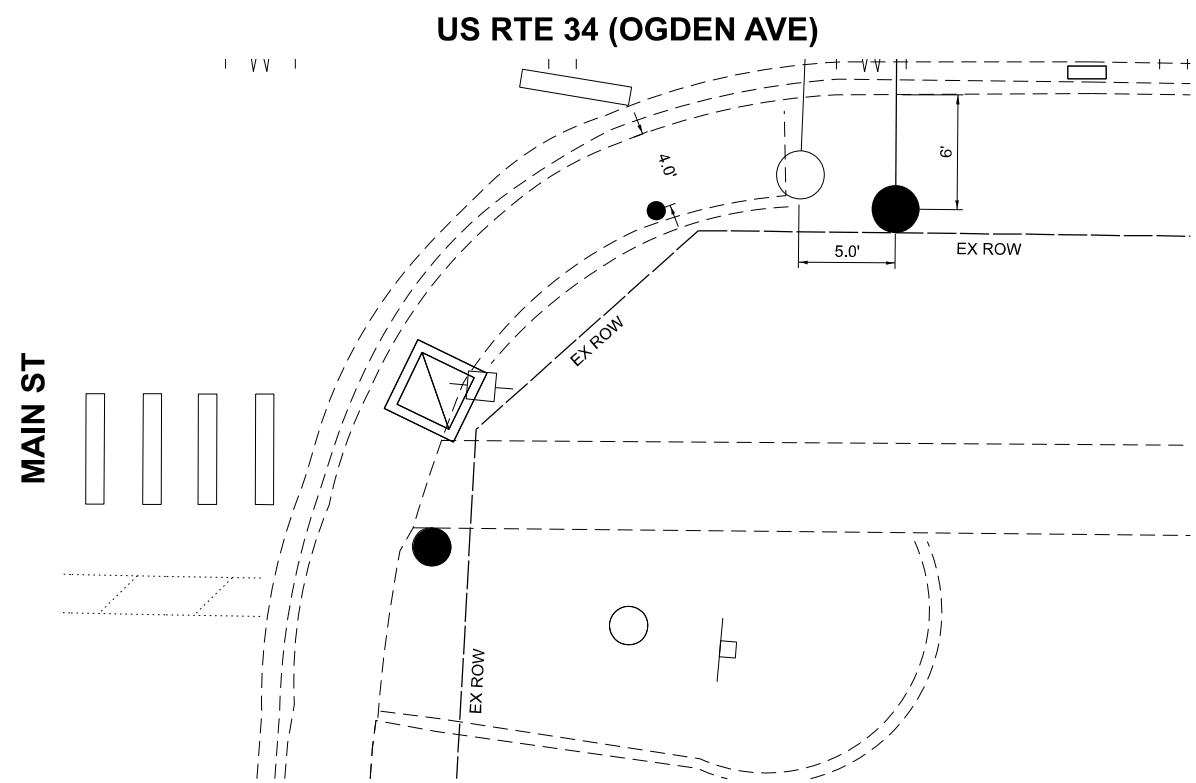
US RTE 34 (OGDEN AVE)



US RTE 34 (OGDEN AVE)



US RTE 34 (OGDEN AVE)



US RTE 34 (OGDEN AVE)

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USER NAME = dwtkorzak	DESIGNED - ZH	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 10,000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 6/26/2024	DATE - 6/28/2024	REVISED -

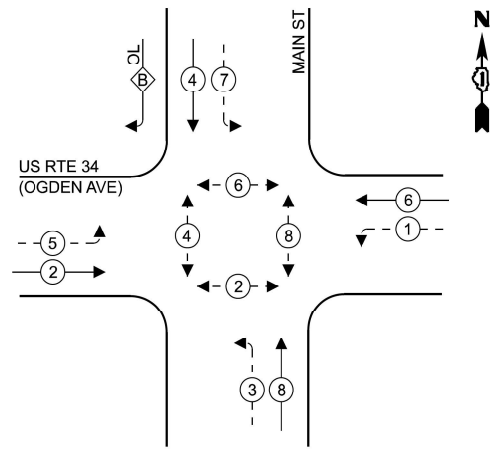
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLACEMENT DETAILS			
US RTE 34 (OGDEN AVE) AND MAIN ST			
SCALE:	SHEET 5	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	DUPAGE	71	49
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

TS 11425
ECON 33

EXISTING AND PROPOSED CONTROLLER SEQUENCE

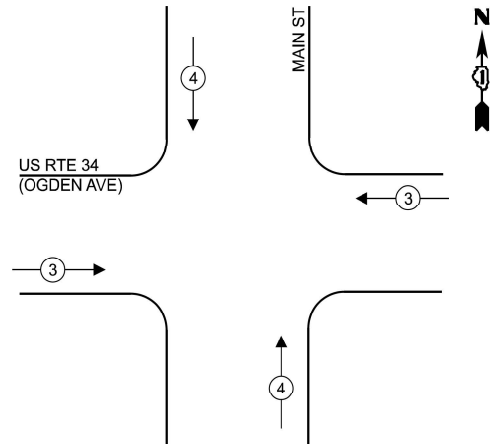


LEGEND

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

RIGHT TURN OVERLAP PHASE DESIGNATION
 OVERLAP PERMISSIVE PROTECTED
 LETTER PHASE PHASE
 B = 4 + 5

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	11	11	121
4-SECTION	-	14	-
5-SECTION	10	13	130
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	8	15	120
MASTER CONTROLLER	1	150	150
UPS	-	100	-
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN	2	20	40
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
TOTAL UPS SIZING			586
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			1191

ENERGY COSTS TO:
VILLAGE OF DOWNERS GROVE

801 BURLINGTON AVE
 DOWNERS GROVE, IL 60515

ENERGY SUPPLY:

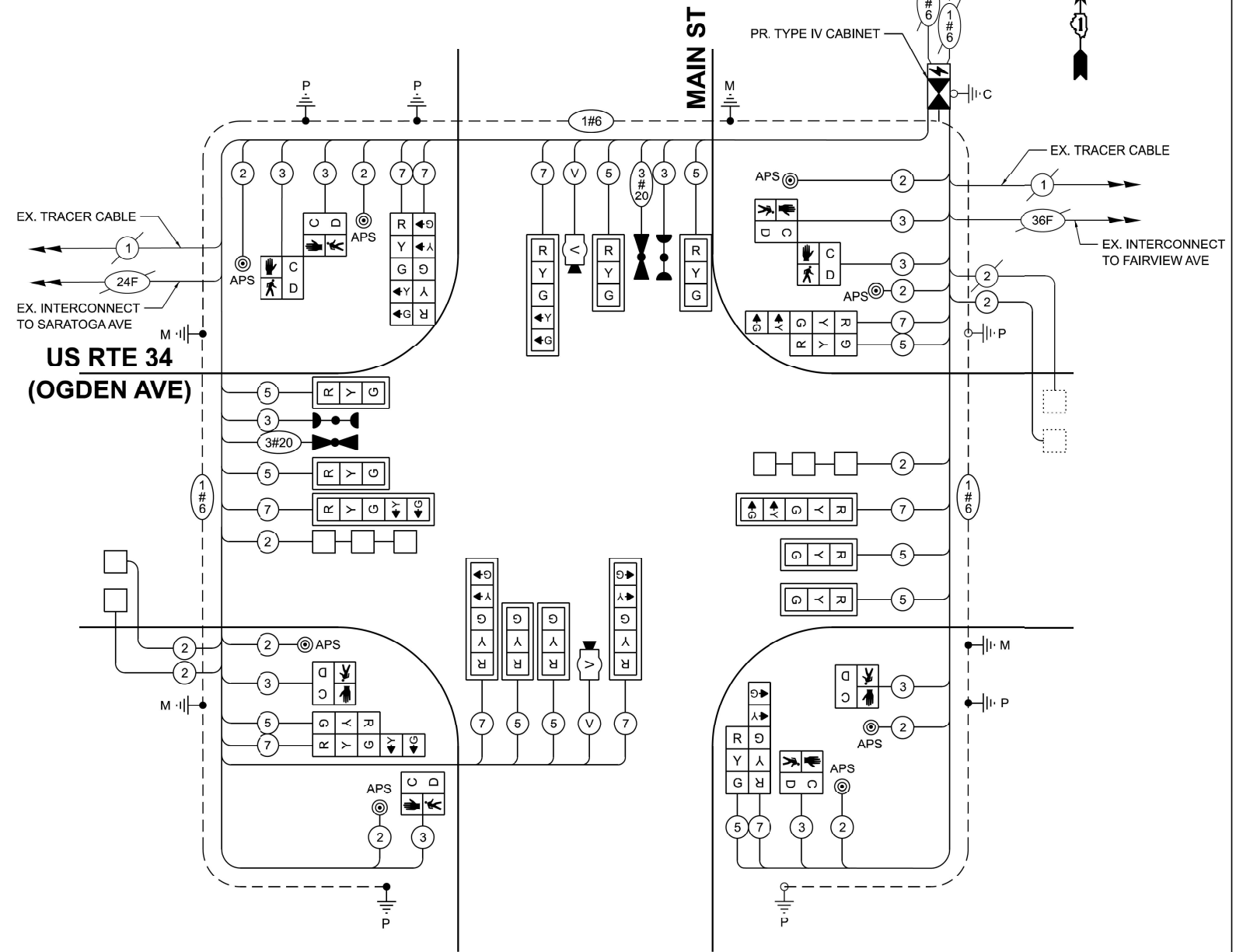
CONTACT: NICK TULEJA

PHONE: (440)-796-8979

COMPANY: CCMED

ACCOUNT NUMBER: 55212-12222

METER NUMBER: 272262031



CABLE PLAN
 (NOT TO SCALE)

NOTE:
 ALL RED SIGNAL INDICATIONS
 SHALL HAVE A LENS COVER.

MODEL: TS 11425
 FILE NAME: X:\Projects\2024\11425\11425.dwg
 USER: TS11425
 DATE: 6/28/2024 10:48:11 AM
 PLOT DATE: 6/28/2024 10:48:11 AM
 PLOT SCALE: 1/4" = 1'-0"



USER NAME = dwiktorzak
 PLOT SCALE = 40,000' / in.
 PLOT DATE = 6/26/2024

DESIGNED - ZH
 DRAWN - RG
 CHECKED - DW
 DATE - 6/28/2024

REVISED - 8/12/2024
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM AND
 EMERGENCY VEHICLE PREEMPTION SEQUENCE
 US RTE 34 (OGDEN AVE) AND MAIN ST**

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2024-1011-TS.I.N.SW	DUPAGE	71	50

CONTRACT NO. 62U21
 ILLINOIS FED. AID PROJECT

**TS 11425
 ECON 33**

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER:

- 1 EACH LAYER SWITCH
- 1 EACH CELLULAR MODEM

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

- 1 EACH EXISTING CONTROLLER AND CABINET (COMPLETE)

NOTES:

1. "WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE." (PER MUTCD SECTION 6G.18)



FILE NAME: C:\Users\erica.salutz\Documents\Global Infrastructure\SSC 22-03-1917\0201_IL59_Main St Barrington RR Interconnect Design and ESR - 22-03-1917\04 - Graphics\CAD Files\Main @ IL 59_Sheets.dgn

Sam Schwartz
200 S. WACKER
SUITE 1400
CHICAGO, IL 60606
TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - PETER WOJTKIEWICZ	REVISED -
PLOT DATE = 6/21/2024	DATE - 6/24/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED RAILROAD INTERCONNECT
MAIN ST AT IL 59 (HOUGH ST)**

SCALE: SHEET OF SHEETS STA. TO STA.

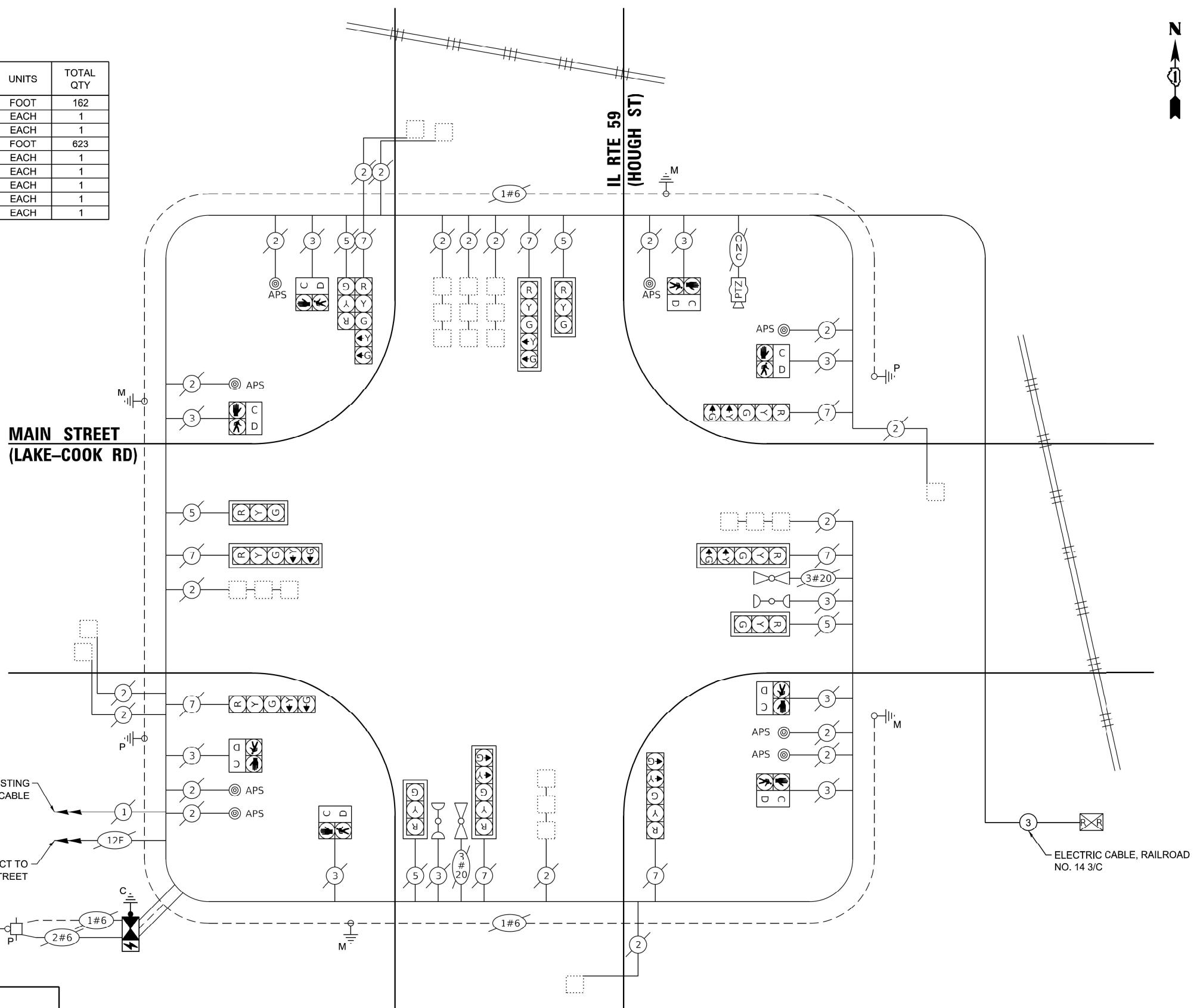
F.A.P. RTE. 338	SECTION FAP 311 22 TS	COUNTY LAKE	TOTAL SHEETS 71	SHEET NO. 52
ILLINOIS			FED. AID PROJECT	

**TS 11280
FORMER EAGLE 1D
LAKE COUNTY CENTRACS**

CONTRACT NO. 62U21

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	162
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	623
DRILL EXISTING HANDHOLE	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
3 - SECTION	5	11	55
4 - SECTION	-	14	-
5 - SECTION	8	13	104
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR	-	20	-
VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	1	15	15
TOTAL UPS SIZING = 524			
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 = 1129			

ENERGY COSTS TO:
ILLINOIS DEPT OF TRANSPORTATION
 201 W CENTER CT
 SCHAUMBERG, IL 60196

ENERGY SUPPLY:
 CONTACT: DAVE SCHACHT
 PHONE: (630) 437-2129
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: 74300-27000

Sam Schwartz
 200 S. WACKER
 SUITE 1400
 CHICAGO, IL 60606
 TEL: (773) 305-0800

USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED - 8/12/2024
PLOT SCALE = 40.0000' / 1"	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 6/21/2024	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 6/24/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CABLE PLAN			
MAIN ST AT IL 59 (HOUGH ST)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2024-1011-TS.I.N.SW	LAKE	71	53
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

**TS 11280
 FORMER EAGLE 1D
 LAKE COUNTY CENTRACS**

FILE NAME: C:\Users\erica.salutz\Global Infrastructure\SC 22-03-1917.WD001_IL59_Main_St_Barrington_RR_Infrastructure_Design_and_ESR_22-03-1917\04 - Graphics\CAD Files\Main @ IL 59_Sheets.dgn

SEQUENCE OF OPERATION

MOVEMENT		1+5				1+6			2+5			2+6			3+7			3+8			4+7			4+8			F L A S H								
PHASE		1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16	17	18	19	20	21A	21B	22	23		24	25A	25B	26	27	28A	28B	
CHANGE TO			1+6	2+5	2+6	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	3+7,4+7 3+8,4+8	∅	∅	1+5 1+6 2+5 2+6 4+8	∅	∅	∅	4+8	1+5 1+6 2+5 2+6	∅	∅		4+8	1+5 1+6 2+5 2+6	∅	∅	∅	∅	1+5,1+6 2+5,2+6	
Main St (Lake Cook Rd) FAR RIGHT SIGNALS	E/B	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Main St (Lake Cook Rd) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Main St (Lake Cook Rd) FAR RIGHT SIGNALS	W/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Main St (Lake Cook Rd) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
IL 59 (Hough St) NEAR RIGHT AND FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R
IL 59 (Hough St) END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R
IL 59 (Hough St) FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	R
IL 59 (Hough St) END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING Main St (Lake Cook Rd) ON EAST SIDE OF IL 59 (Hough St)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	P	FH	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING Main St (Lake Cook Rd) ON WEST SIDE OF IL 59 (Hough St)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	P	FH	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING IL 59 (Hough St) ON SOUTH SIDE OF Main St (Lake Cook Rd)		H	H	H	H	H	H	P	FH	H	P	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING IL 59 (Hough St) ON NORTH SIDE OF Main St (Lake Cook Rd)		H	H	H	H	P	FH	H	H	H	P	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	

PHASES 2+6 SHALL BE PLACED ON RECALL
 * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
 **FLASHING HAND IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE

∅ THE WALK OR FLASHING DON'T WALK INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT
 IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE WALK OR FLASHING DON'T WALK INTERVALS

WALK AND FLASHING DON'T WALK TIMINGS TO BE SET ONLY ON PHASES WHERE WALK AND FLASHING DON'T WALK ARE
 INDICATED IN THE SEQUENCE OF OPERATION

P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK

TS 11280
FORMER EAGLE 1D
LAKE COUNTY CENTRACS

FILE NAME: C:\Users\erica.salutz\Documents\Infrastructure\SSC 22-03-1917\0201_IL59_Main_St_Barrington_RB_Interconnect_Design_and_ESR - 22-03-1917\04 - Graphics\CAD Files\Main @ IL 59_Sheets.dgn

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USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - KATHLEEN MURPHY	REVISED -
PLOT DATE = 6/21/2024	CHECKED - PETER WOJTKIEWICZ	REVISED -
	DATE - 6/24/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
MAIN ST AT IL 59 (HOUGH ST) - SHEET 1 OF 3

F.A.P. RTE. 338	SECTION FAP 311 22 TS	COUNTY LAKE	TOTAL SHEETS 71	SHEET NO. 54
SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

	EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION																										PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4												
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5			5			8			8			11	11			14	18			18			22			22			26			26						
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	2	3	CLEAR TO NORMAL SEQUENCE							
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1Q	1R	3	2 OR 3	1U	1V	2	1X	3	1AA	1BB	2	1DD	3	1FF	1GG	2	3			◇							
Main St (Lake Cook Rd) FAR RIGHT SIGNALS	E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇							
Main St (Lake Cook Rd) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇					
Main St (Lake Cook Rd) FAR RIGHT SIGNALS	W/B	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇				
Main St (Lake Cook Rd) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇			
IL 59 (Hough St) NEAR RIGHT AND FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	R	G	G	◇					
IL 59 (Hough St) END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	R	G	G	◇					
IL 59 (Hough St) FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	G	◇	
IL 59 (Hough St) END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	G	◇
PEDESTRIAN SIGNALS CROSSING Main St (Lake Cook Rd) ON EAST SIDE OF IL 59 (Hough St)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING Main St (Lake Cook Rd) ON WEST SIDE OF IL 59 (Hough St)		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	FH	H	FH	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING IL 59 (Hough St) ON SOUTH SIDE OF Main St (Lake Cook Rd)		H	H	H	H	H	FH	H	FH	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	
PEDESTRIAN SIGNALS CROSSING IL 59 (Hough St) ON NORTH SIDE OF Main St (Lake Cook Rd)		H	FH	H	FH	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇	

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE PREEMPTION INTERVAL AFTER EMERGENCY VEHICLE PREEMPTION INTI Revised:

FILE NAME: C:\Users\erica.salutz\Documents\Global Infrastructure\SSC 22-03-1917\0201_IL59_Main St Barrington RR Interconnect Design and ESR - 22-03-1917\04 - Graphic\CAD Files\Main @ IL 59_Sheets.dgn

Sam Schwartz
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USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -
DRAWN - KATHLEEN MURPHY	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - PETER WOJTKIEWICZ	REVISED -
PLOT DATE = 6/21/2024	DATE - 6/24/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION
MAIN ST AT IL 59 (HOUGH ST) – SHEET 2 OF 3**

F.A.P. RTE. 338	SECTION FAP 311 22 TS	COUNTY LAKE	TOTAL SHEETS 71	SHEET NO. 55
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62U21	

**TS 11280
FORMER EAGLE 1D
LAKE COUNTY CENTRACS**

RAILROAD PREEMPTION SEQUENCE OF OPERATION

															PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 2							
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5			8			11			14	18			22	26								
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																	2	3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P	1Q	1R	2	3	4	5	CLEAR TO NORMAL SEQUENCE	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	1J	2	1L	2	1N	2	1P	2	1R	2	3	4	5	∅		
Main St (Lake Cook Rd) FAR RIGHT SIGNALS	E/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	Δ	
Main St (Lake Cook Rd) END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	Δ	
Main St (Lake Cook Rd) FAR RIGHT SIGNALS	W/B	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	
Main St (Lake Cook Rd) END MAST ARM AND FAR LEFT SIGNALS	W/B	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	
IL 59 (Hough St) NEAR RIGHT AND FAR RIGHT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	G	G	G	Y	R	R	Δ	
IL 59 (Hough St) END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	G	G	G	Y	R	R	Δ	
IL 59 (Hough St) FAR RIGHT SIGNALS	N/B	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ	
IL 59 (Hough St) END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ	
PEDESTRIAN SIGNALS CROSSING Main St (Lake Cook Rd) ON EAST SIDE OF IL 59 (Hough St)		H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	Δ	
PEDESTRIAN SIGNALS CROSSING Main St (Lake Cook Rd) ON WEST SIDE OF IL 59 (Hough St)		H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	Δ	
PEDESTRIAN SIGNALS CROSSING IL 59 (Hough St) ON SOUTH SIDE OF Main St (Lake Cook Rd)		H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ	
PEDESTRIAN SIGNALS CROSSING IL 59 (Hough St) ON NORTH SIDE OF Main St (Lake Cook Rd)		H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ	
																							HOLD	

Δ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

∅ RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 3+7, 4+7 AND 1+6 UNTIL RAILROAD PREEMPTION IS TERMINATED.

**TS 11280
FORMER EAGLE 1D
LAKE COUNTY CENTRACS**

Sam Schwartz 200 S. WACKER SUITE 1400 CHICAGO, IL 60606 TEL: (773) 305-0800	USER NAME = erica.salutz	DESIGNED - ERICA SALUTZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION AND EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION MAIN ST AT IL 59 (HOUGH ST) - SHEET 3 OF 3	F.A.P. RTE. 338	SECTION FAP 311 22 TS	COUNTY LAKE	TOTAL SHEETS 71	SHEET NO. 56	CONTRACT NO. 62U21 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 40,0000 * / in.	CHECKED - PETER WOJTKIEWICZ	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.			
	PLOT DATE = 6/21/2024	DATE - 6/24/2024	REVISED -								

FILE NAME: C:\Users\erica.salutz\Documents\Infrastructure\SSC 22-03-1917\0201_IL59_Main St Barrington RR Interconnect Design and ESR - 22-03-1917\04 - Graphics\CAD Files\Main @ IL 59_Sheets.dgn

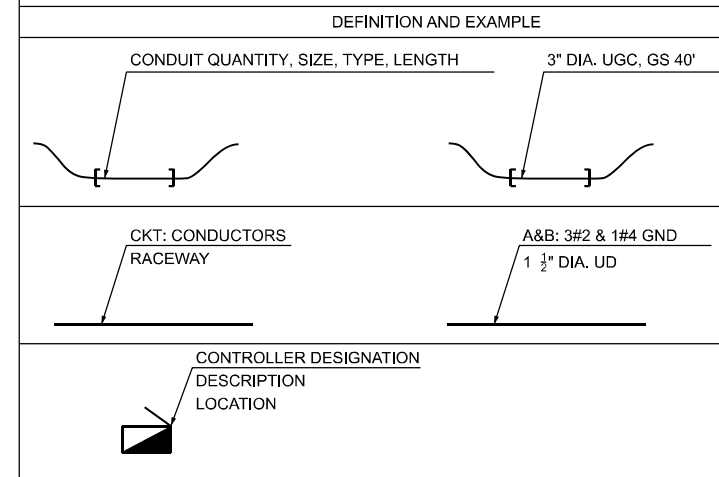
LIGHTING AND ELECTRICAL LEGEND

	INSTALL LUMINAIRE, LED, HORIZONTAL MOUNT, OUTPUT DESTINATION F, POLE WIRING, FUSES AND LUMINAIRE SAFETY CABLE ON EXISTING LIGHT POLE
	INSTALL LUMINAIRE, LED, HORIZONTAL MOUNT, OUTPUT DESTINATION H, POLE WIRING, FUSES AND LUMINAIRE SAFETY CABLE ON EXISTING LIGHT POLE
	EXISTING LIGHT POLE AND FOUNDATION TO REMAIN, EXISTING LUMINAIRE SAFETY CABLE TO BE REMOVED, EXISTING LUMINAIRE TO BE REMOVED, SALVAGED.
	TEMPORARY 15 FT MAST ARM WITH HPS LUMINAIRE INSTALLED ON TEMPORARY TRAFFIC SIGNAL WOOD POLE
	EXISTING IDOT COMBINATION LIGHTING UNIT TO BE REMOVED
	PROPOSED IDOT COMBINATION LIGHTING UNIT, 45 FT LUMINAIRE M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED HORIZONTAL MOUNT., DESIGNATION G, 120V WITH 6 AMP FUSE & NEUTRAL SLUG
	TEMPORARY WOOD POLE, 40 FT., CLASS 4
	ELECTRIC AERIAL CABLE, SIZE AS NOTED
	EXISTING UNIT DUCT OR CONDUIT TO REMAIN
	EXISTING UNDERGROUND UNIT DUCT OR CONDUIT TO BE ABANDONED IN PLACE
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	EXISTING LIGHTING CONTROLLER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSANGER WIRE
NESC	NATIONAL ELECTRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
VAC	VOLTS, ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

CALL-OUT SAMPLE



GENERAL NOTES

- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2024, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-240	COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-800	TEMPORARY LIGHT POLE DETAILS

INDEX OF DRAWINGS:

DRAWING NO.	TITLE
LT-01	LIGHTING LEGEND, GENERAL NOTES, BILL OF MATERIALS AND INDEX OF DRAWINGS
LT-02	US ROUTE 34 (OGDEN AVE) AT WOLF ROAD TEMPORARY LIGHTING AND REMOVAL PLAN
LT-03	US ROUTE 34 (OGDEN AVE) AT WOLF ROAD PROPOSED LIGHTING PLAN
LT-04	WIRING DIAGRAM - IDOT CONTROLLER "BW"
LT-05	US ROUTE 34 (OGDEN AVE) AT WOLF ROAD COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM
LT-06	IDOT D1 STANDARD DRAWING BE-240
LT-07	IDOT D1 STANDARD DRAWING BE-701
LT-08	IDOT D1 STANDARD DRAWING BE-702
LT-09	IDOT D1 STANDARD DRAWING BE-800

BILL OF MATERIALS:

ITEM	UNIT	TOTAL QTY
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	480
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	160
AERIAL CABLE, 2-1/C NO. 4 WITH MESSANGER WIRE	FOOT	200
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION F	EACH	4
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	16
TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	1
REMOVAL OF LUMINAIRE, SALVAGE	EACH	20
COMBINATION LIGHTING CONTROLLER	EACH	1
RELOCATE EXISTING LUMINAIRE	EACH	1
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	20
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6

MODEL: MODEL NAMES
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING LEGEND, GENERAL NOTES, BILL OF MATERIALS,
AND INDEX OF DRAWINGS

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

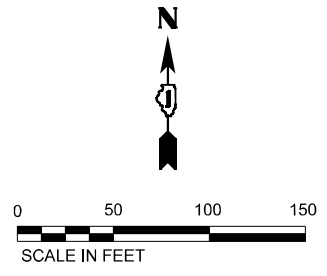
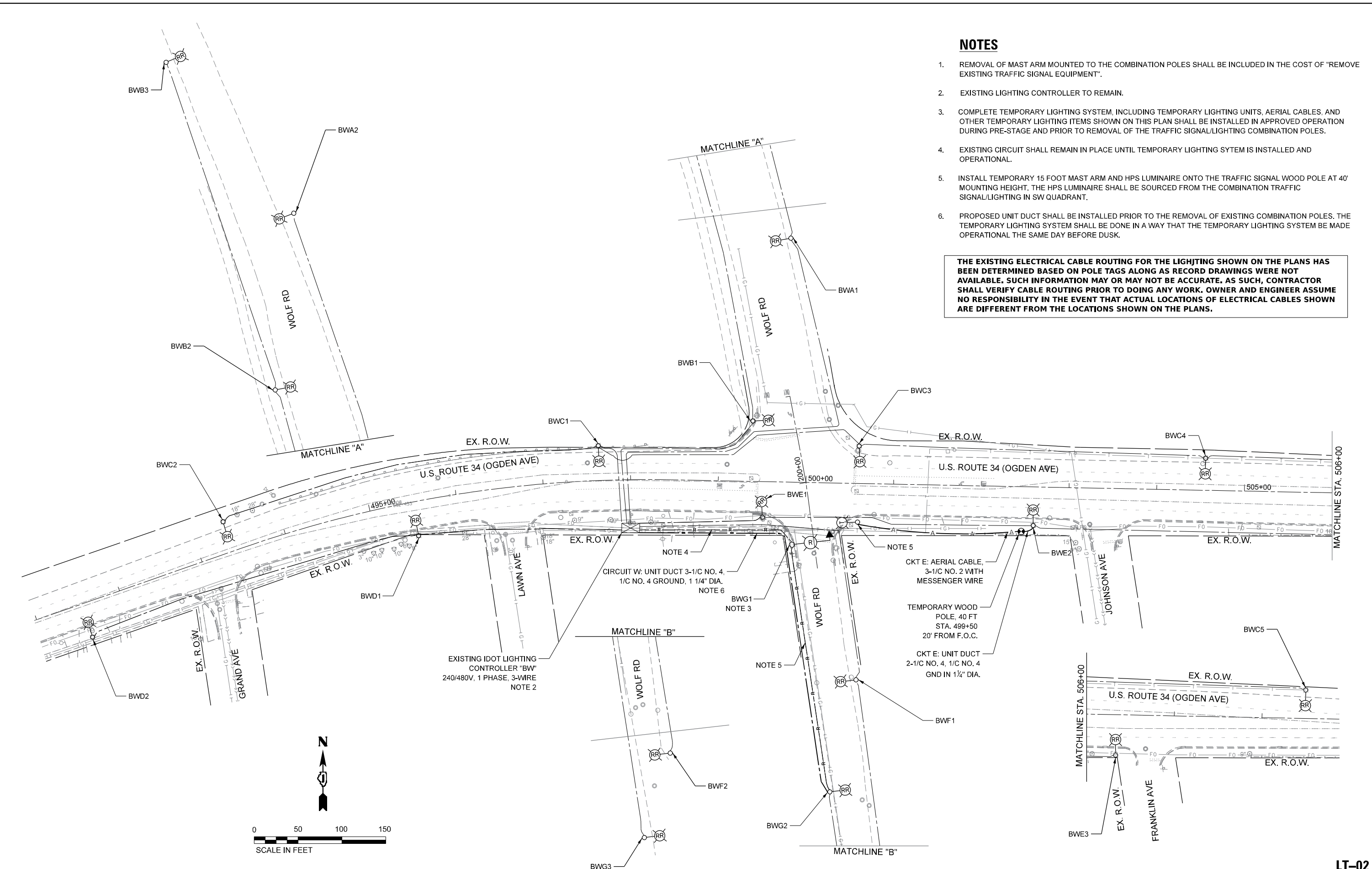
F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 57
CONTRACT NO. 62U21				ILLINOIS FED. AID PROJECT

LT-01

NOTES

1. REMOVAL OF MAST ARM MOUNTED TO THE COMBINATION POLES SHALL BE INCLUDED IN THE COST OF "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT".
2. EXISTING LIGHTING CONTROLLER TO REMAIN.
3. COMPLETE TEMPORARY LIGHTING SYSTEM, INCLUDING TEMPORARY LIGHTING UNITS, AERIAL CABLES, AND OTHER TEMPORARY LIGHTING ITEMS SHOWN ON THIS PLAN SHALL BE INSTALLED IN APPROVED OPERATION DURING PRE-STAGE AND PRIOR TO REMOVAL OF THE TRAFFIC SIGNAL/LIGHTING COMBINATION POLES.
4. EXISTING CIRCUIT SHALL REMAIN IN PLACE UNTIL TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
5. INSTALL TEMPORARY 15 FOOT MAST ARM AND HPS LUMINAIRE ONTO THE TRAFFIC SIGNAL WOOD POLE AT 40' MOUNTING HEIGHT. THE HPS LUMINAIRE SHALL BE SOURCED FROM THE COMBINATION TRAFFIC SIGNAL/LIGHTING IN SW QUADRANT.
6. PROPOSED UNIT DUCT SHALL BE INSTALLED PRIOR TO THE REMOVAL OF EXISTING COMBINATION POLES. THE TEMPORARY LIGHTING SYSTEM SHALL BE DONE IN A WAY THAT THE TEMPORARY LIGHTING SYSTEM BE MADE OPERATIONAL THE SAME DAY BEFORE DUSK.

THE EXISTING ELECTRICAL CABLE ROUTING FOR THE LIGHTING SHOWN ON THE PLANS HAS BEEN DETERMINED BASED ON POLE TAGS ALONG AS RECORD DRAWINGS WERE NOT AVAILABLE. SUCH INFORMATION MAY OR MAY NOT BE ACCURATE. AS SUCH, CONTRACTOR SHALL VERIFY CABLE ROUTING PRIOR TO DOING ANY WORK. OWNER AND ENGINEER ASSUME NO RESPONSIBILITY IN THE EVENT THAT ACTUAL LOCATIONS OF ELECTRICAL CABLES SHOWN ARE DIFFERENT FROM THE LOCATIONS SHOWN ON THE PLANS.



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PLOT DATE = 3/19/2024	CHECKED - RP/IMG	REVISED -
	DATE - 3/19/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 34 (OGDEN AVE) AT WOLF ROAD
TEMPORARY LIGHTING AND REMOVAL PLAN**

SCALE: 1"=50' SHEET ___ OF ___ SHEETS STA. ___ TO STA. ___

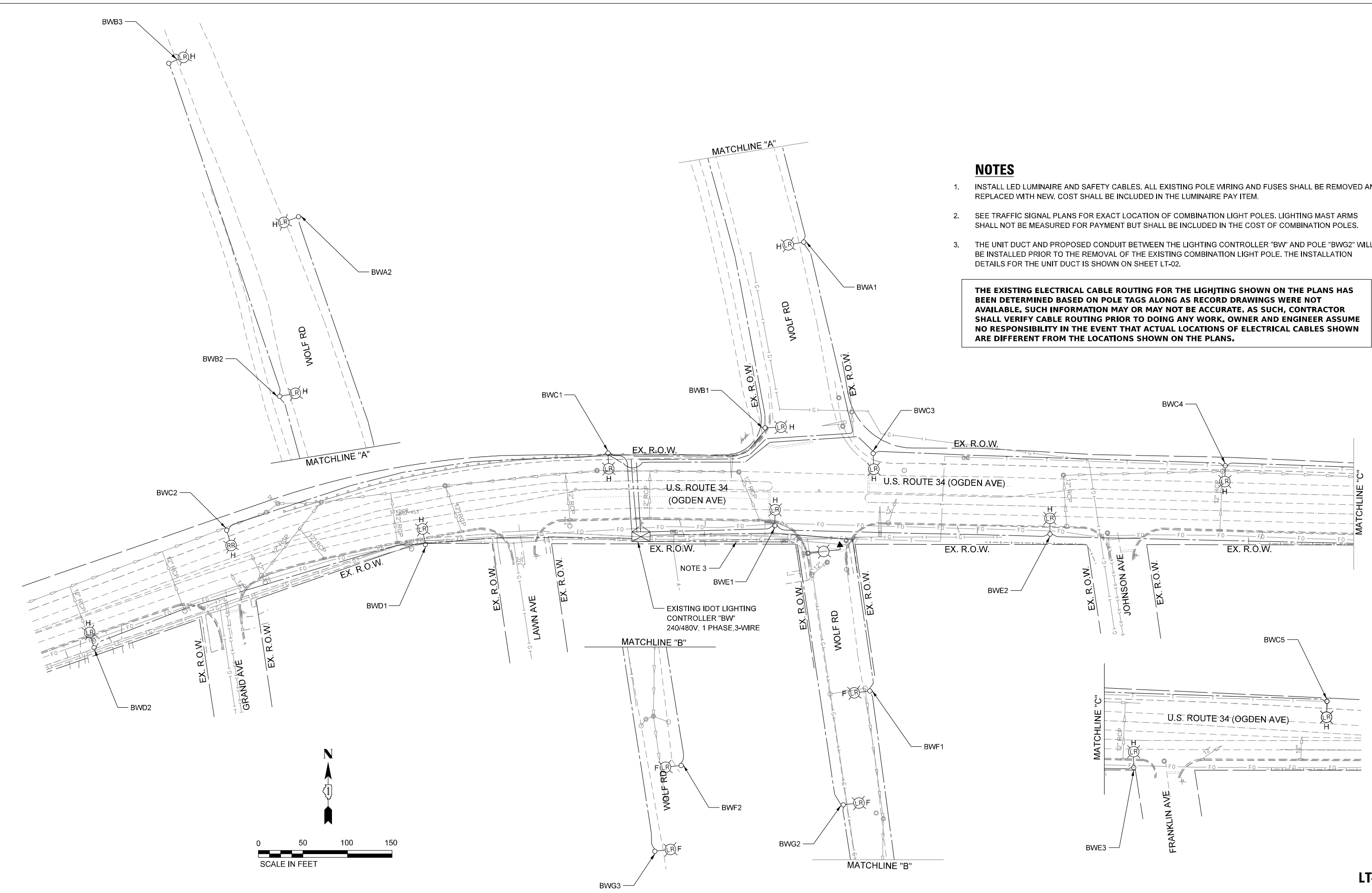
F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 58
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

LT-02

NOTES

1. INSTALL LED LUMINAIRE AND SAFETY CABLES. ALL EXISTING POLE WIRING AND FUSES SHALL BE REMOVED AND REPLACED WITH NEW. COST SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM.
2. SEE TRAFFIC SIGNAL PLANS FOR EXACT LOCATION OF COMBINATION LIGHT POLES. LIGHTING MAST ARMS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF COMBINATION POLES.
3. THE UNIT DUCT AND PROPOSED CONDUIT BETWEEN THE LIGHTING CONTROLLER "BW" AND POLE "BWG2" WILL BE INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING COMBINATION LIGHT POLE. THE INSTALLATION DETAILS FOR THE UNIT DUCT IS SHOWN ON SHEET LT-02.

THE EXISTING ELECTRICAL CABLE ROUTING FOR THE LIGHTING SHOWN ON THE PLANS HAS BEEN DETERMINED BASED ON POLE TAGS ALONG AS RECORD DRAWINGS WERE NOT AVAILABLE. SUCH INFORMATION MAY OR MAY NOT BE ACCURATE. AS SUCH, CONTRACTOR SHALL VERIFY CABLE ROUTING PRIOR TO DOING ANY WORK. OWNER AND ENGINEER ASSUME NO RESPONSIBILITY IN THE EVENT THAT ACTUAL LOCATIONS OF ELECTRICAL CABLES SHOWN ARE DIFFERENT FROM THE LOCATIONS SHOWN ON THE PLANS.



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 34 (OGDEN AVE) AT WOLF ROAD
PROPOSED LIGHTING PLAN**



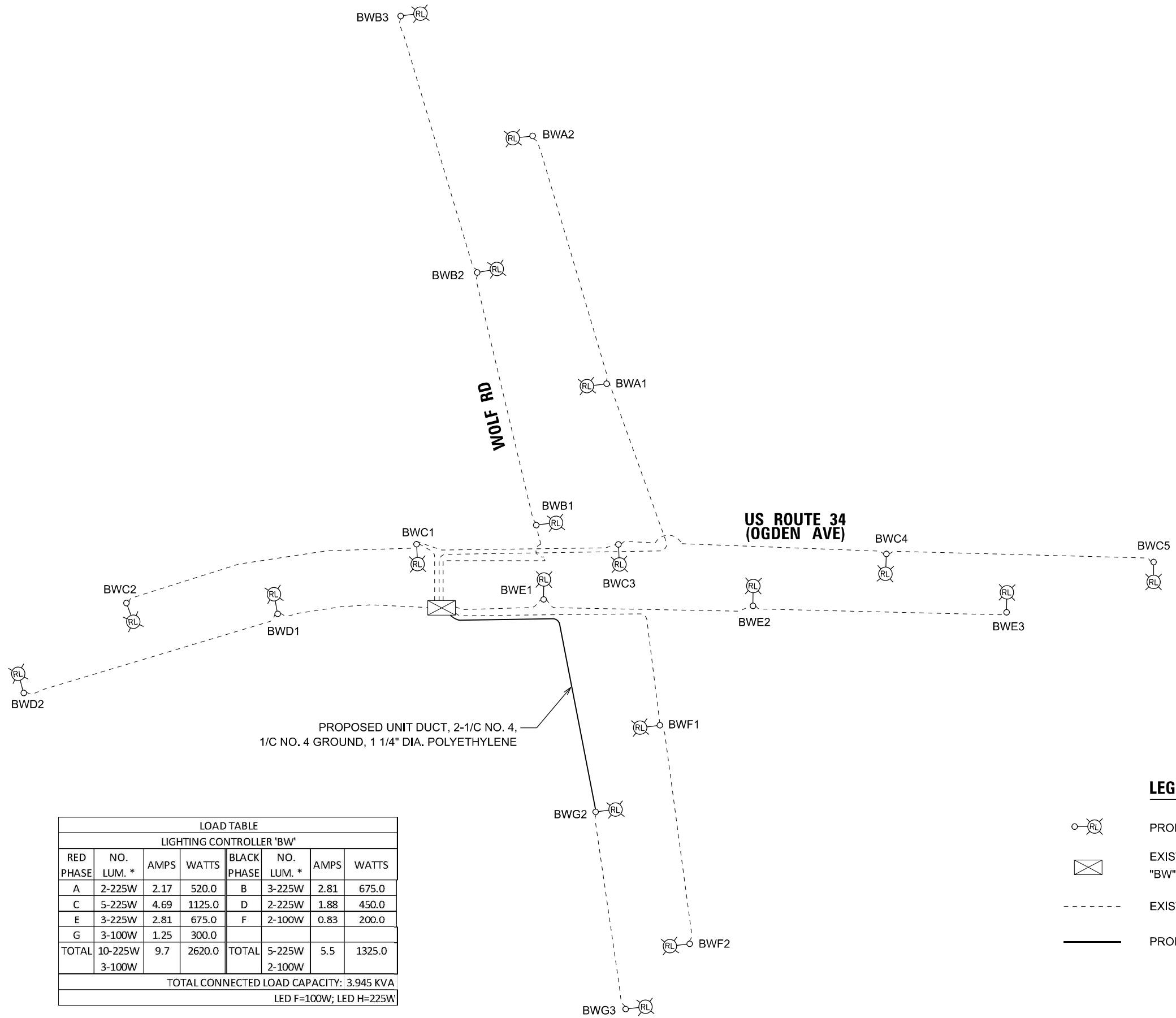
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PLOT DATE = 3/21/2024		

SCALE: 1"=50'	SHEET _ OF _ SHEETS	STA. _ TO STA. _
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F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 59
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

LT-03

MODEL: SINGH\BLENAMES
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LOAD TABLE							
LIGHTING CONTROLLER 'BW'							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	2-225W	2.17	520.0	B	3-225W	2.81	675.0
C	5-225W	4.69	1125.0	D	2-225W	1.88	450.0
E	3-225W	2.81	675.0	F	2-100W	0.83	200.0
G	3-100W	1.25	300.0				
TOTAL	10-225W 3-100W	9.7	2620.0	TOTAL	5-225W 2-100W	5.5	1325.0
TOTAL CONNECTED LOAD CAPACITY: 3.945 KVA							
LED F=100W; LED H=225W							

- LEGEND**
- PROPOSED IDOT LED LUMINAIRE
 - EXISTING IDOT LIGHTING CONTROLLER "BW" 240/480V, 1 PHASE, 3 WIRE
 - EXISTING CIRCUIT
 - PROPOSED CIRCUIT

MODEL: 6000ELMAMES
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DRAWN - AP/ML	CHECKED - RP/MP	REVISED -
PLOT SCALE = 1/60,0000' / in.	DATE - 3/19/2024	REVISED -
PLOT DATE = 3/21/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM - IDOT CONTROLLER "BW"
 SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

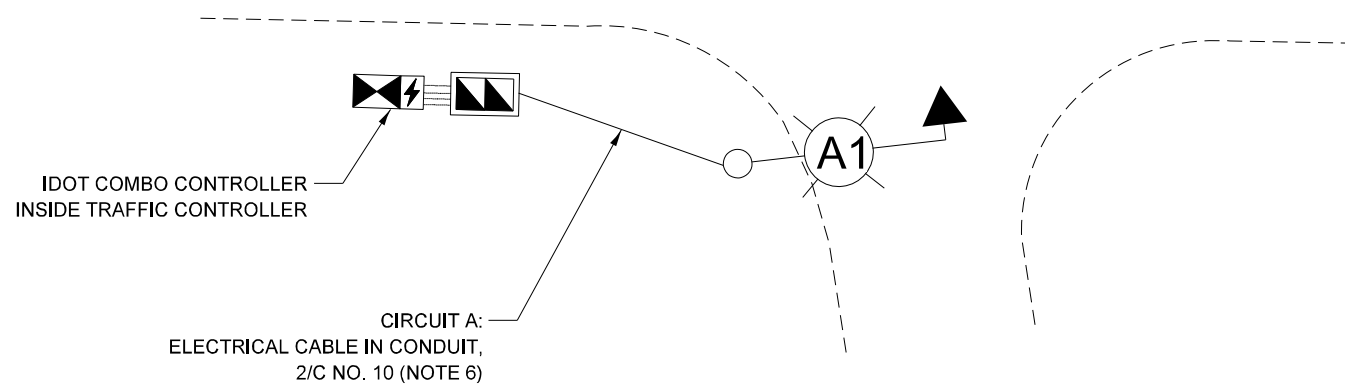
F.A.P. RTE. 311	SECTION FAP 311 22 TS	COUNTY COOK	TOTAL SHEETS 71	SHEET NO. 60
CONTRACT NO. 62U21				
ILLINOIS FED. AID PROJECT				

LT-04



WOLF ROAD

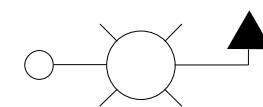
US ROUTE 34 (OGDEN AVE)



NOTES:

1. THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER. SEE BE-240.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING DECALS SHOWN ARE FOR GUIDANCE ONLY.
6. ELECTRICAL CABLE SHALL BE ROUTED THROUGH THE TRAFFIC SIGNAL CONDUITS. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE.

LEGEND



IDOT COMBINATION LIGHT POLE
 45 FT LUMINAIRE MOUNTING HEIGHT
 8 FT LUMINAIRE ARM
 LUMINAIRE, LED, OUTPUT DESIGNATION H,
 WITH 6 AMP FUSE AND NEUTRAL SLUG

MODEL: 6100ELEMAMES
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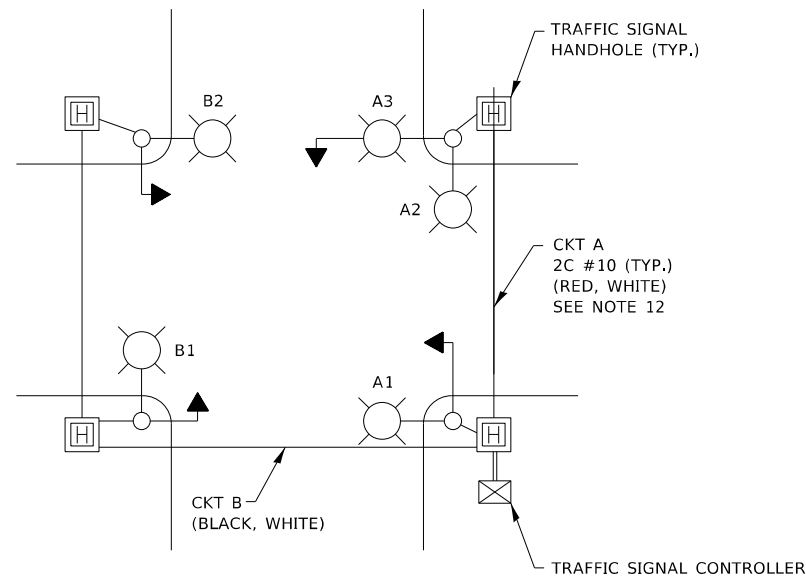
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 34 (OGDEN AVE) AT WOLF ROAD
COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM

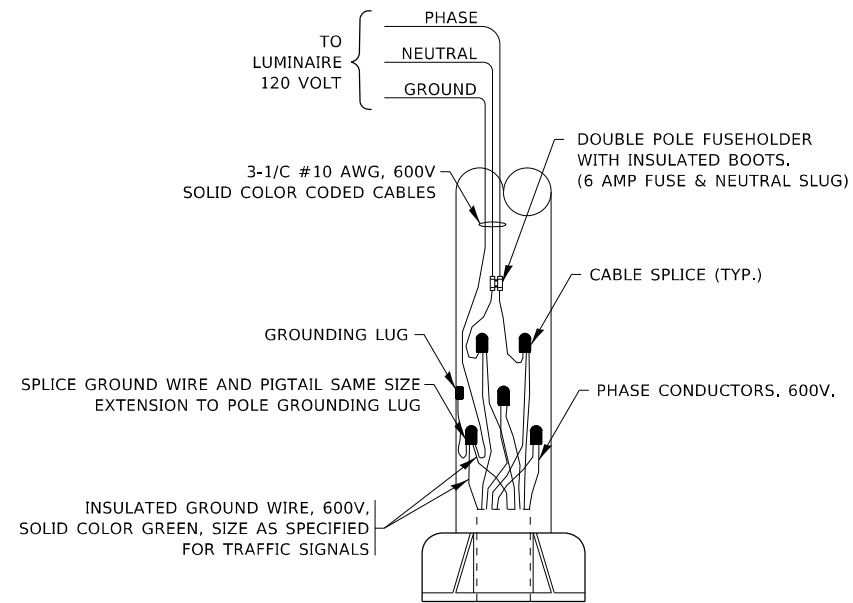
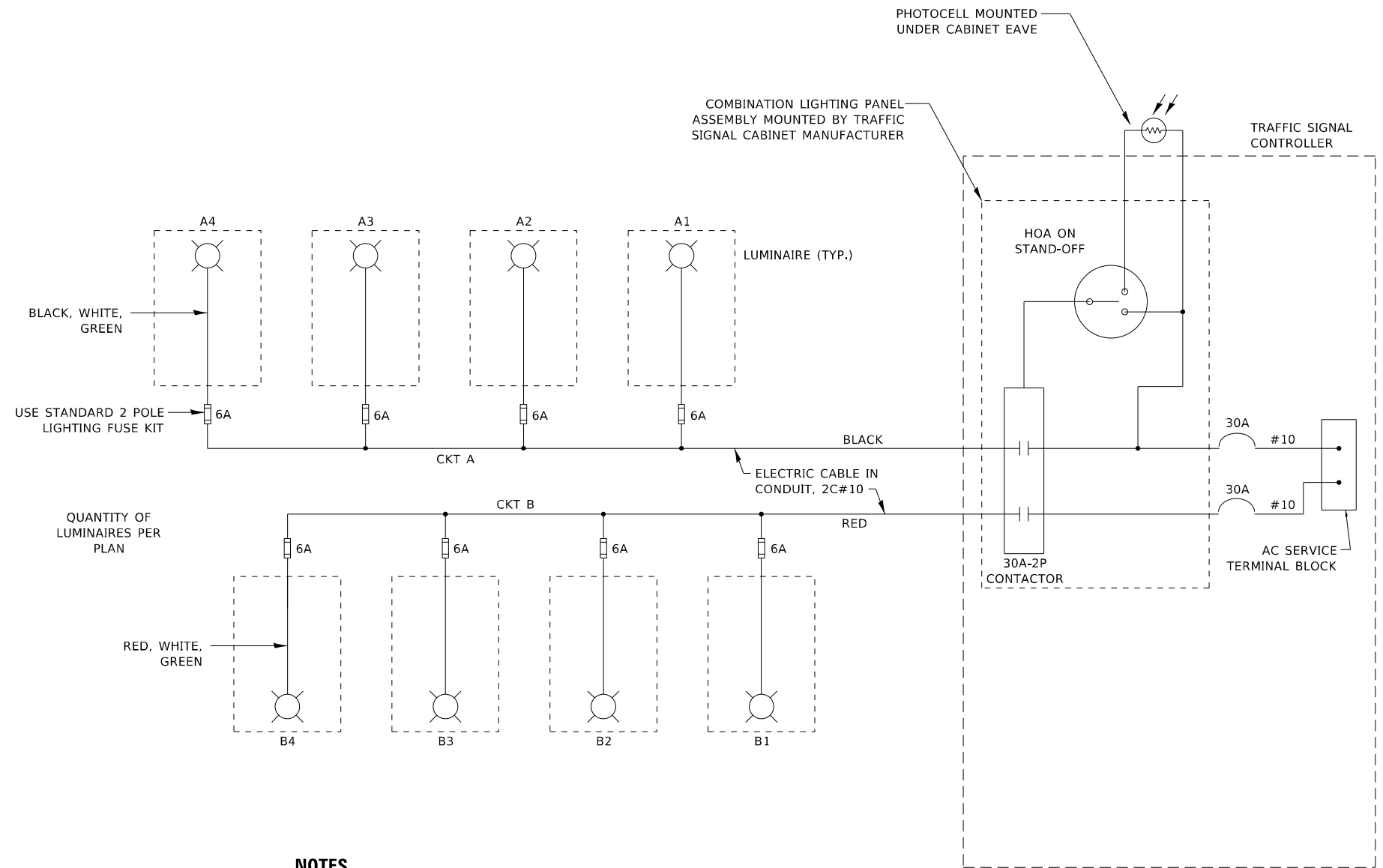
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	61
CONTRACT NO. 62U21				
ILLINOIS		FED. AID PROJECT		

LT-05



TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

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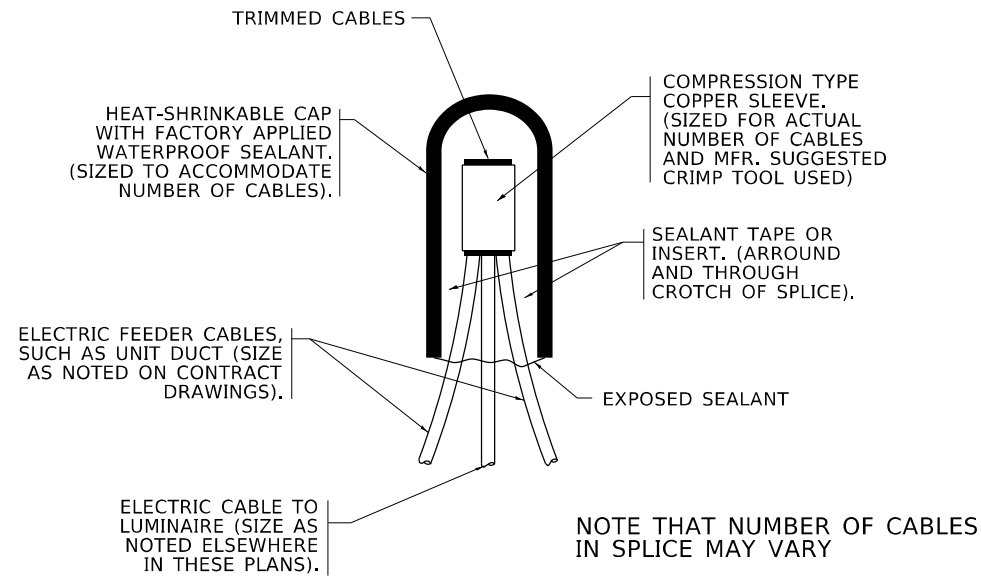
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PLOT DATE = 7/3/2024	DATE - 08/18/2014	REVISED - T.G. 8/03/2021
		REVISED - T.G. 5/05/2022

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

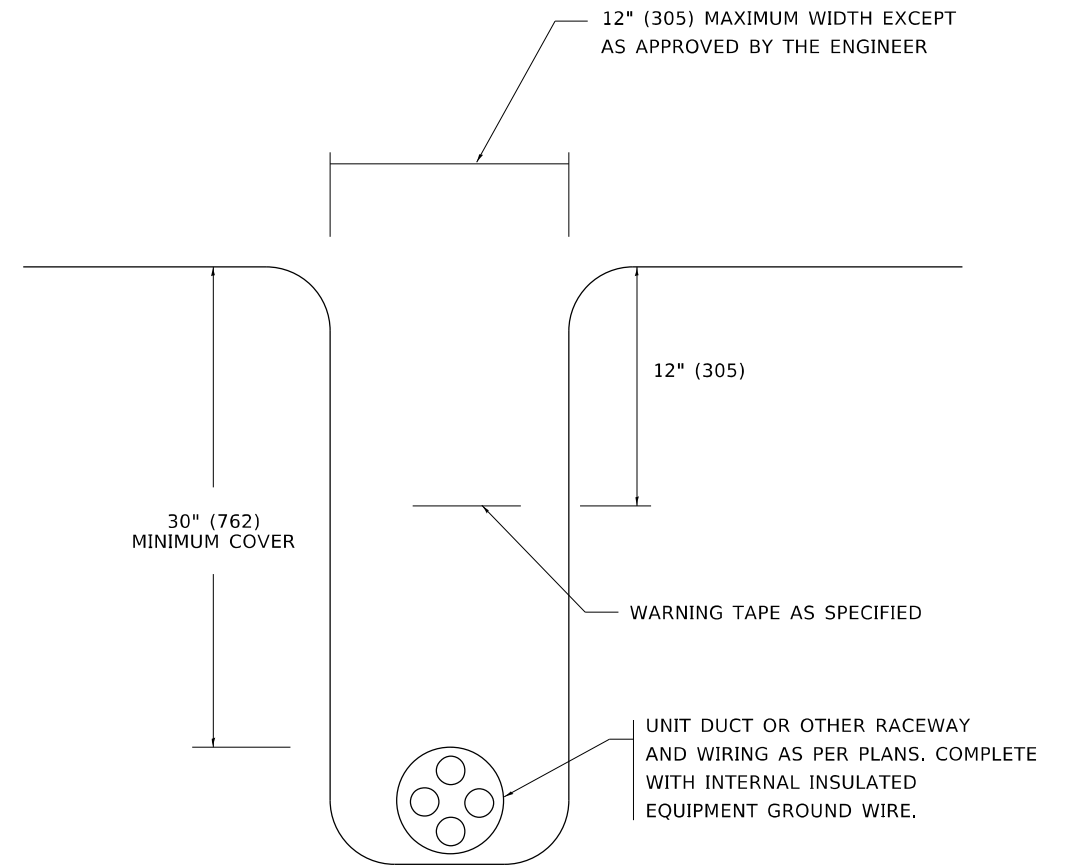
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BE-240			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

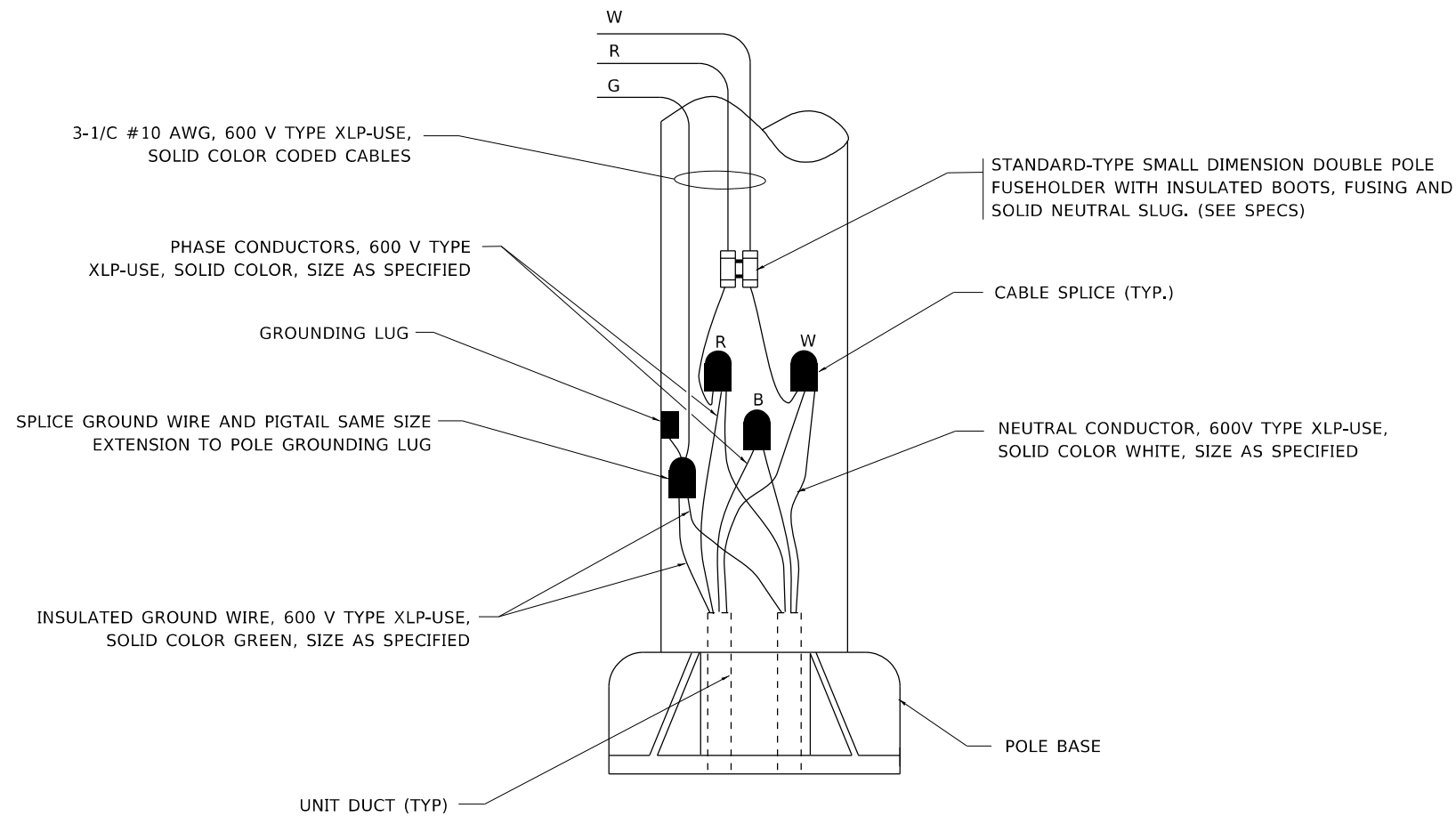


NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY

TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

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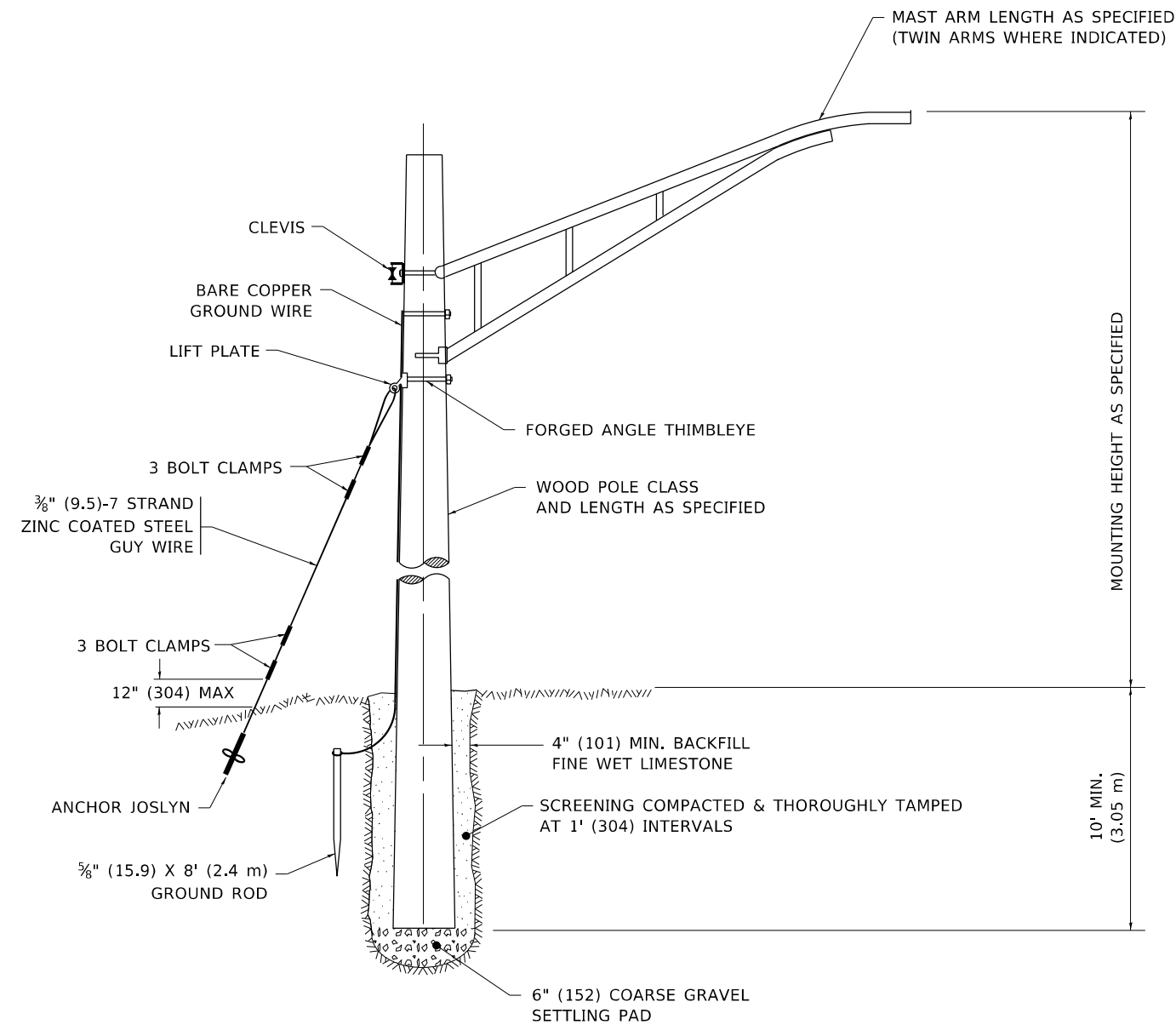
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

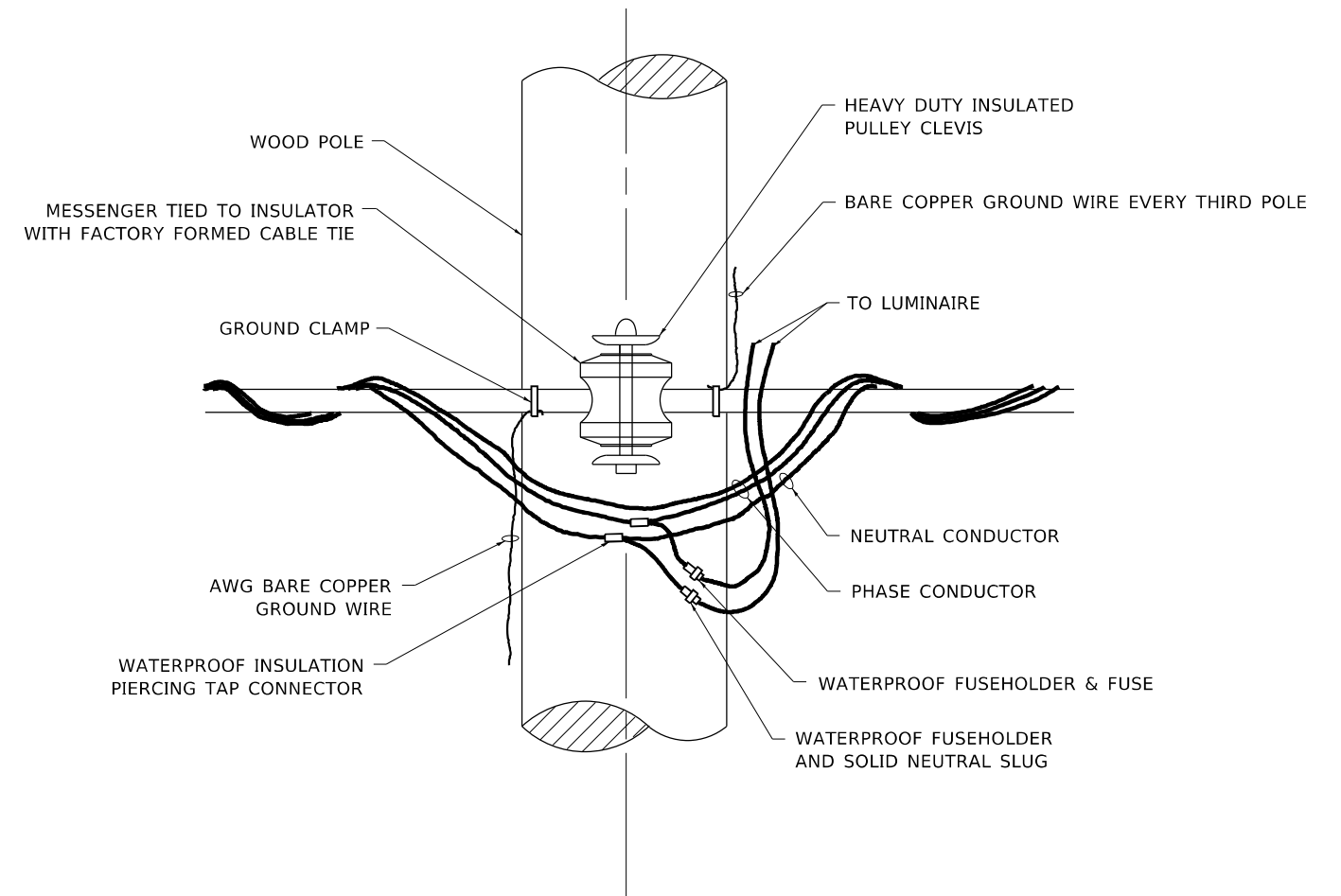
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311	FAP 311 22 TS	COOK	71	64
BE-702		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

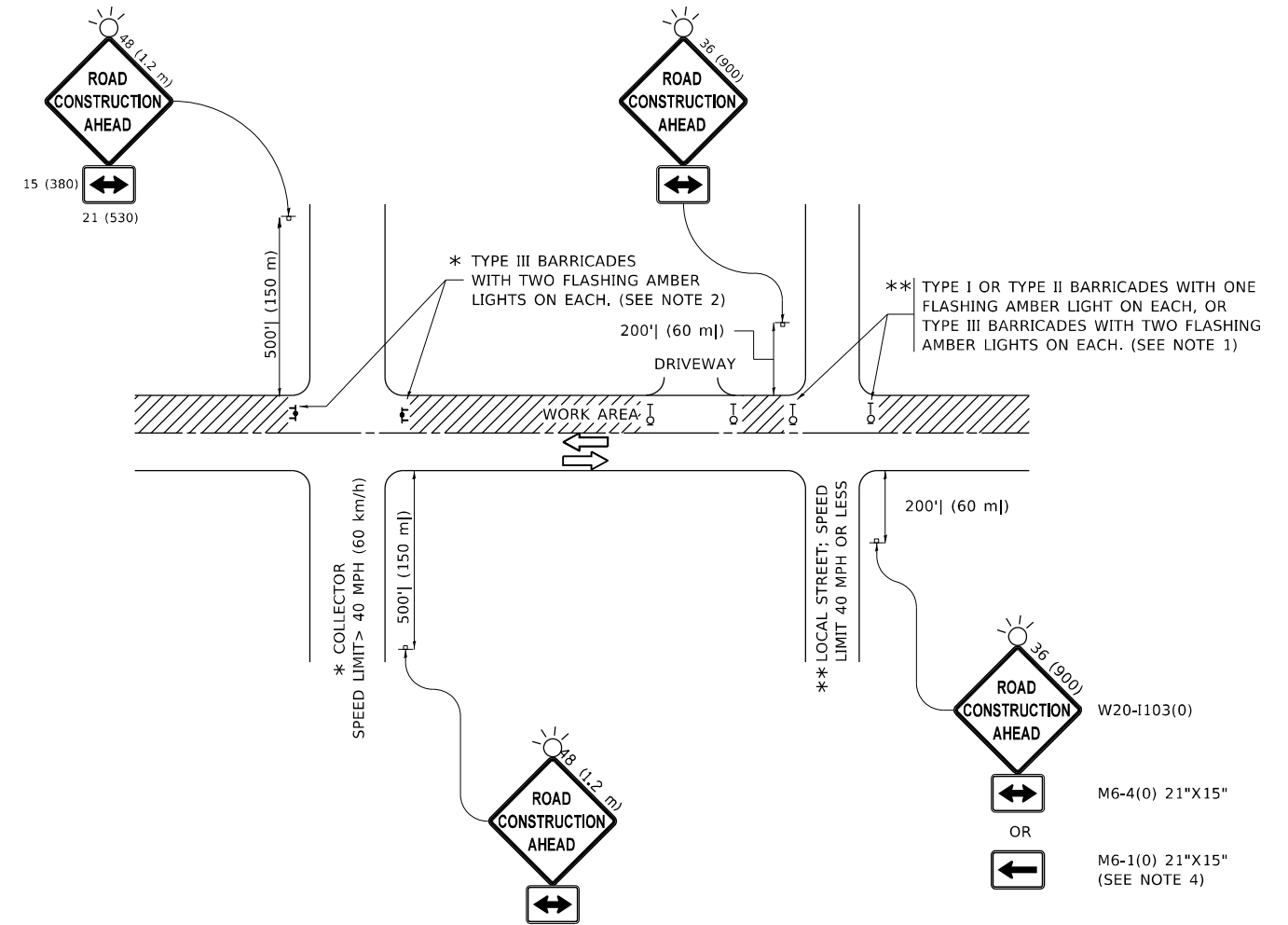
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PLOT DATE = 7/3/2024	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHT POLE DETAILS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	FAP 311 22 TS	COOK	71	65
BE-800		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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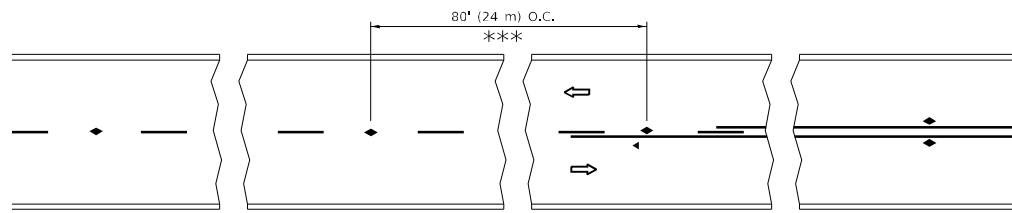
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	DRAWN -	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 7/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

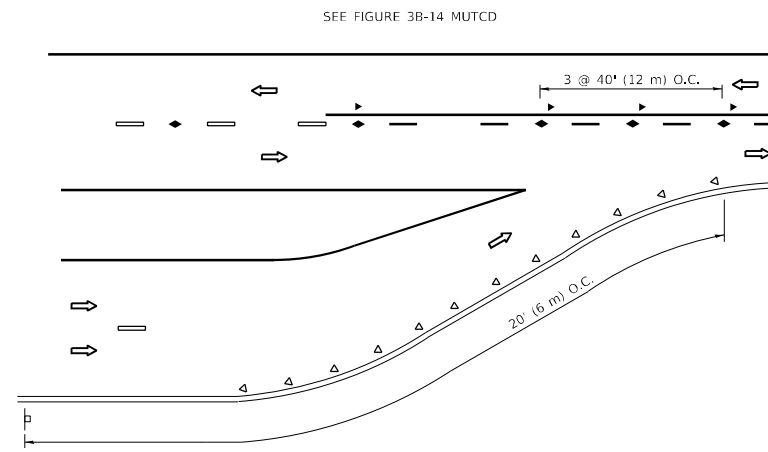
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				

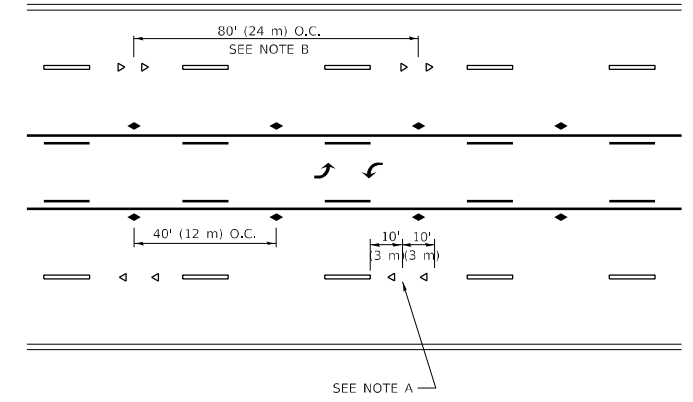


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

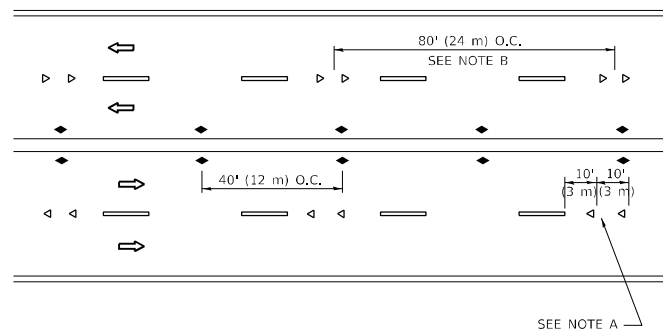
TWO-LANE/TWO-WAY



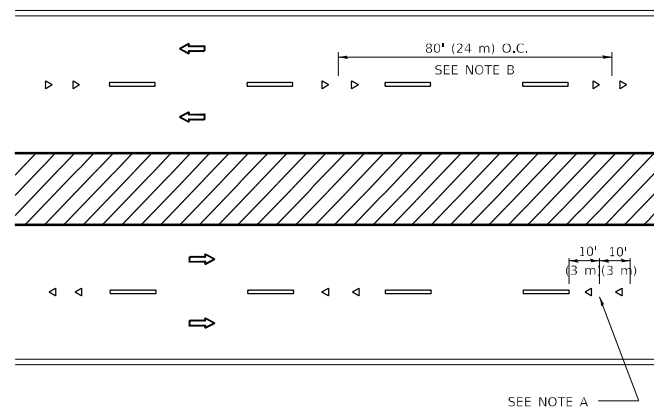
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

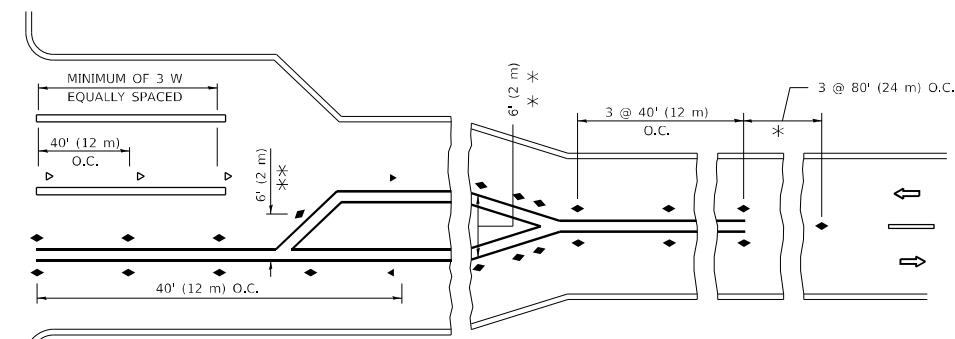
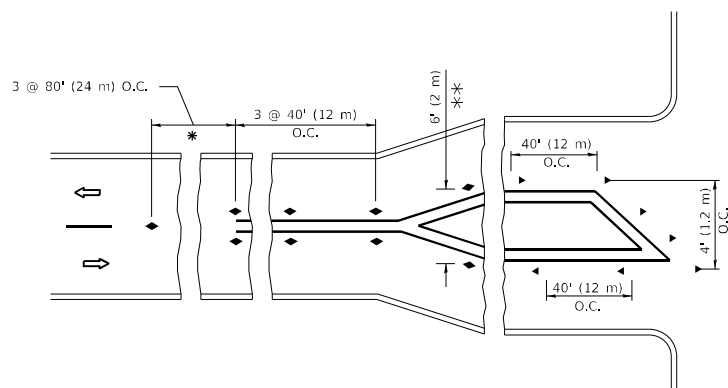
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

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

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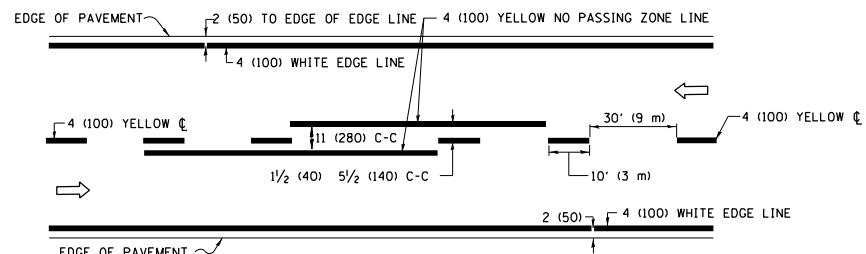
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 7/3/2024	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

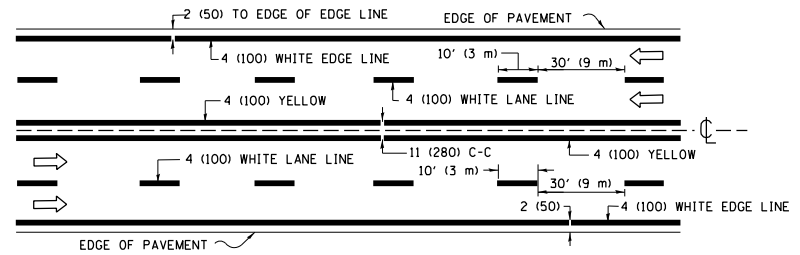
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

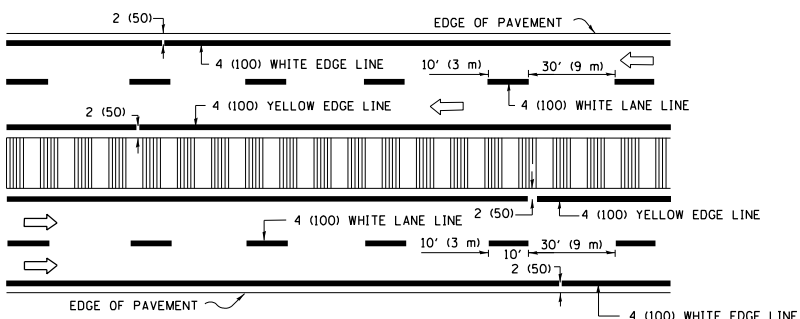
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	FAP 311 22 TS	VAR	71	67
TC-11		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

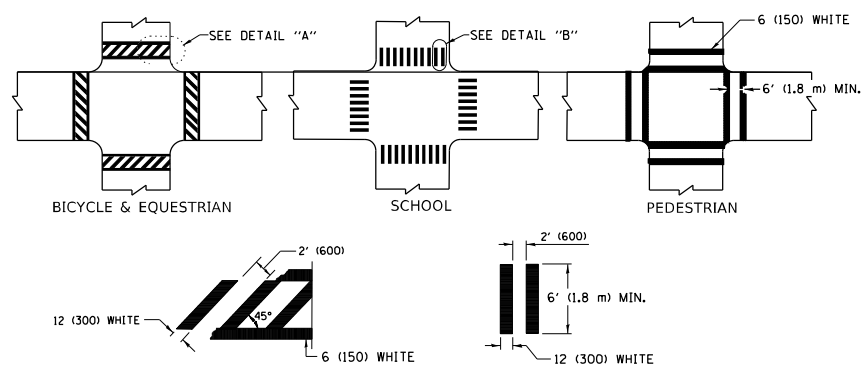


MULTI-LANE UNDIVIDED



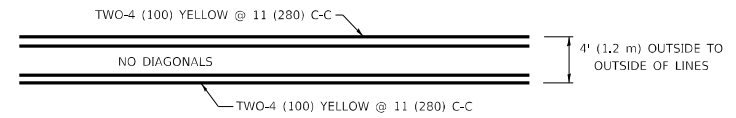
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

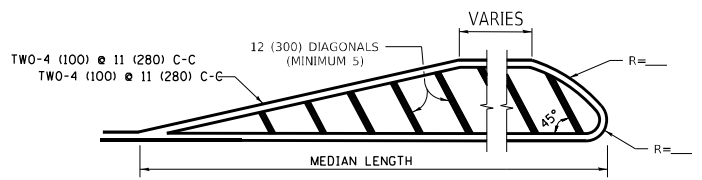


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

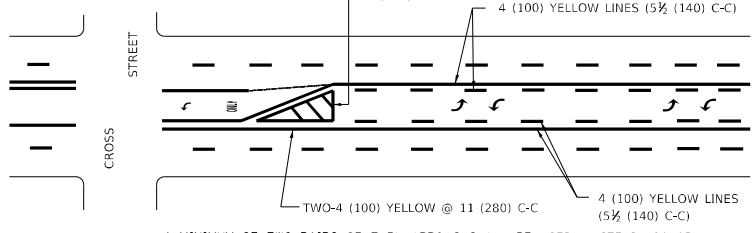


4' (1.2 m) WIDE MEDIANS ONLY

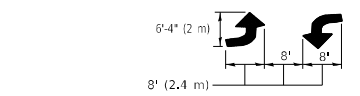


MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



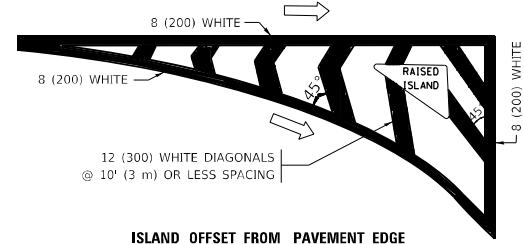
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TYPICAL PAINTED MEDIAN MARKING**



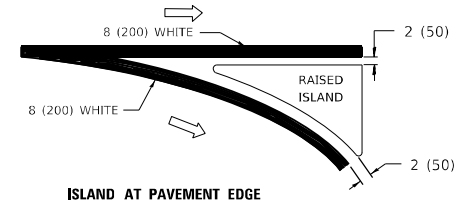
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

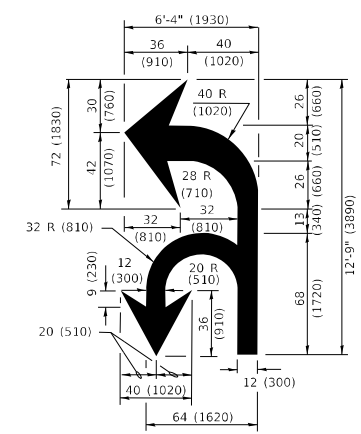


ISLAND OFFSET FROM PAVEMENT EDGE

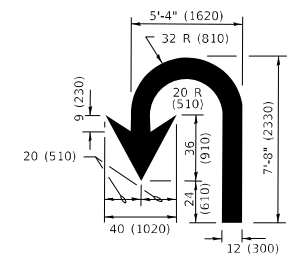


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 8" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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PLOT DATE = 7/3/2024	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		VAR	FAP 311 22 TS	VAR	71	68
SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.	CONTRACT NO. 62U21	

TC-13		ILLINOIS	FED. AID PROJECT
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TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

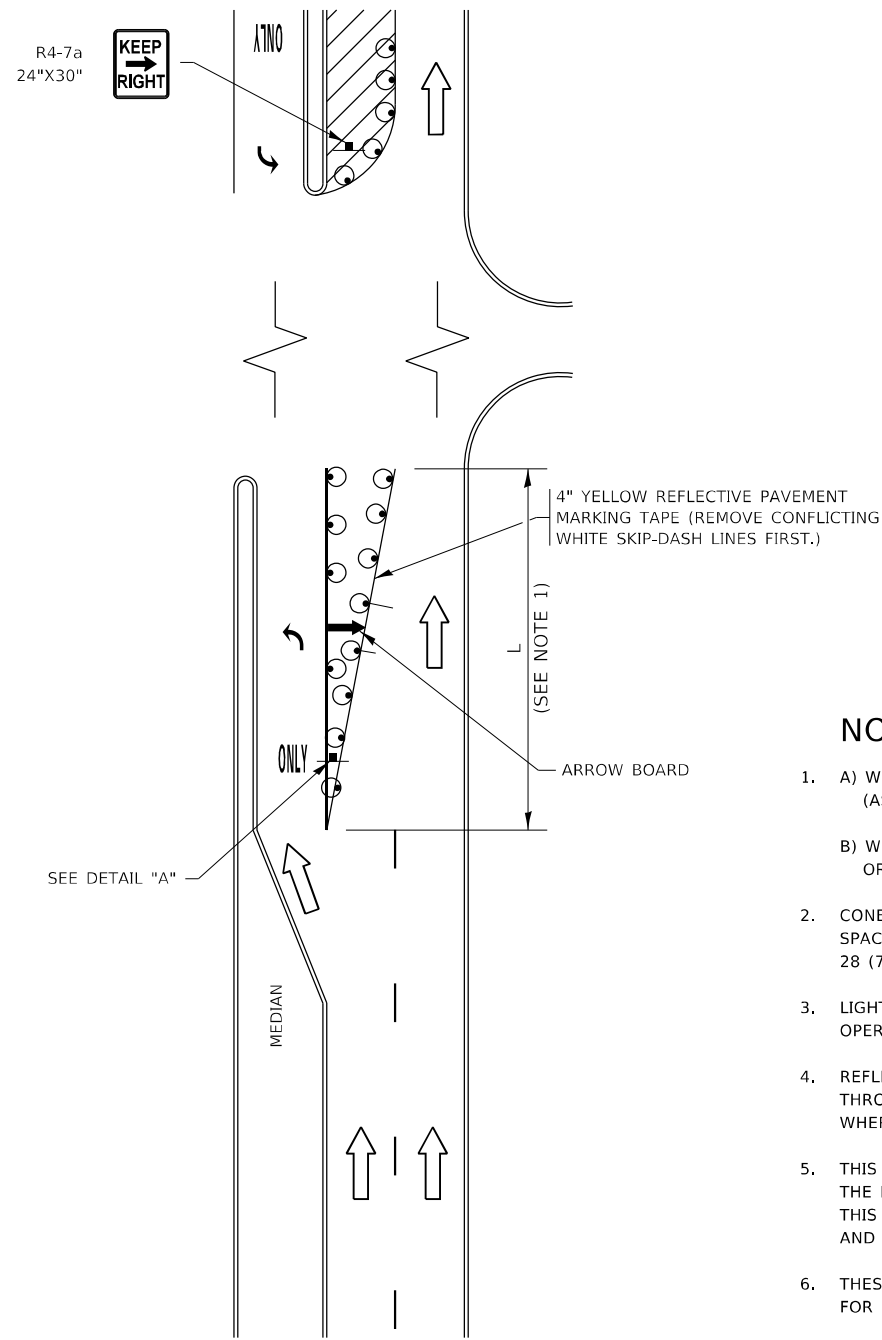


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

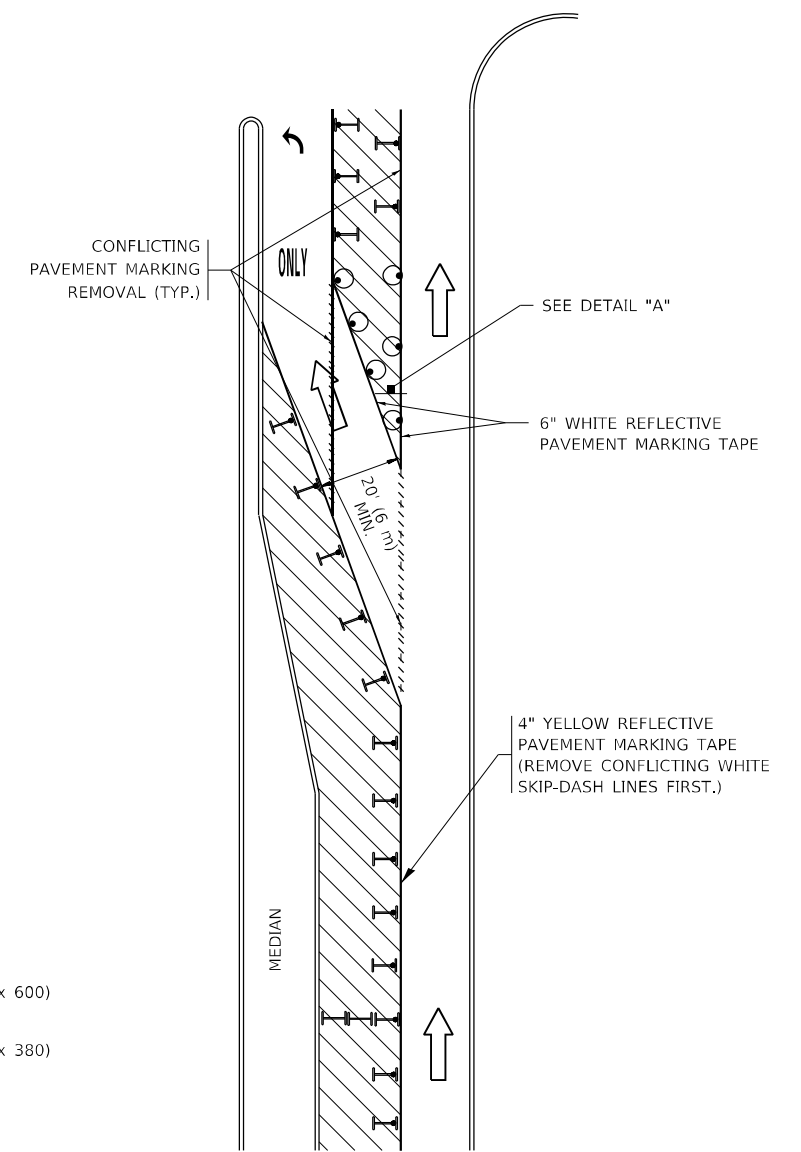
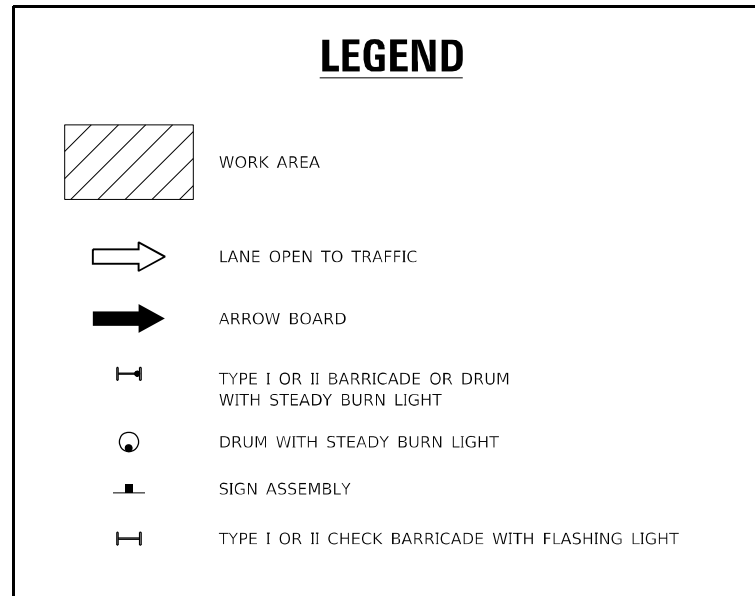
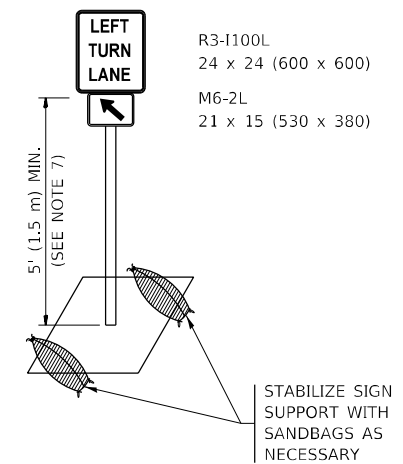


FIGURE 2



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

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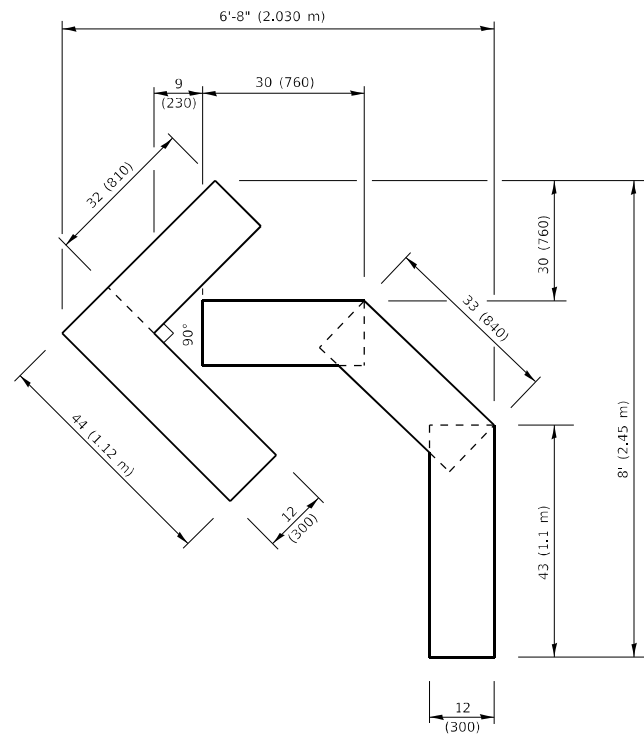
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PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 7/3/2024	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

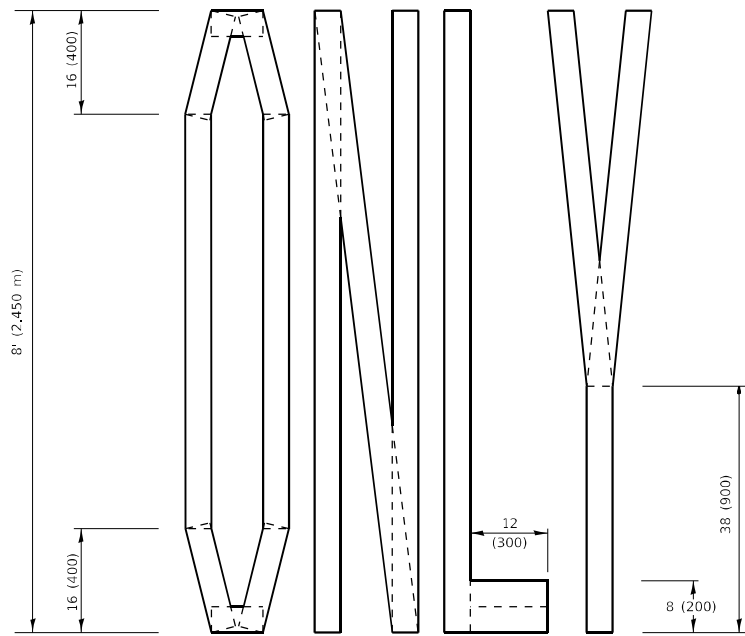
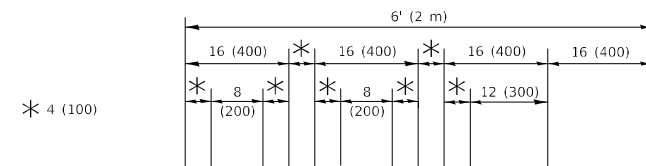
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				



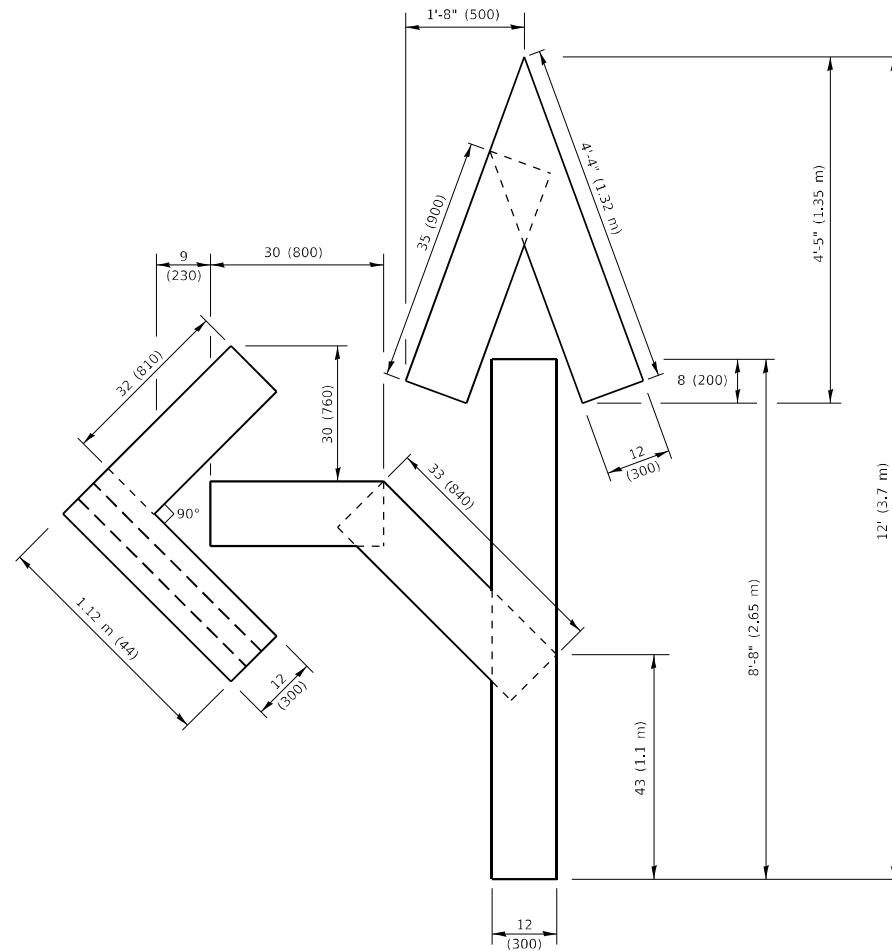
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

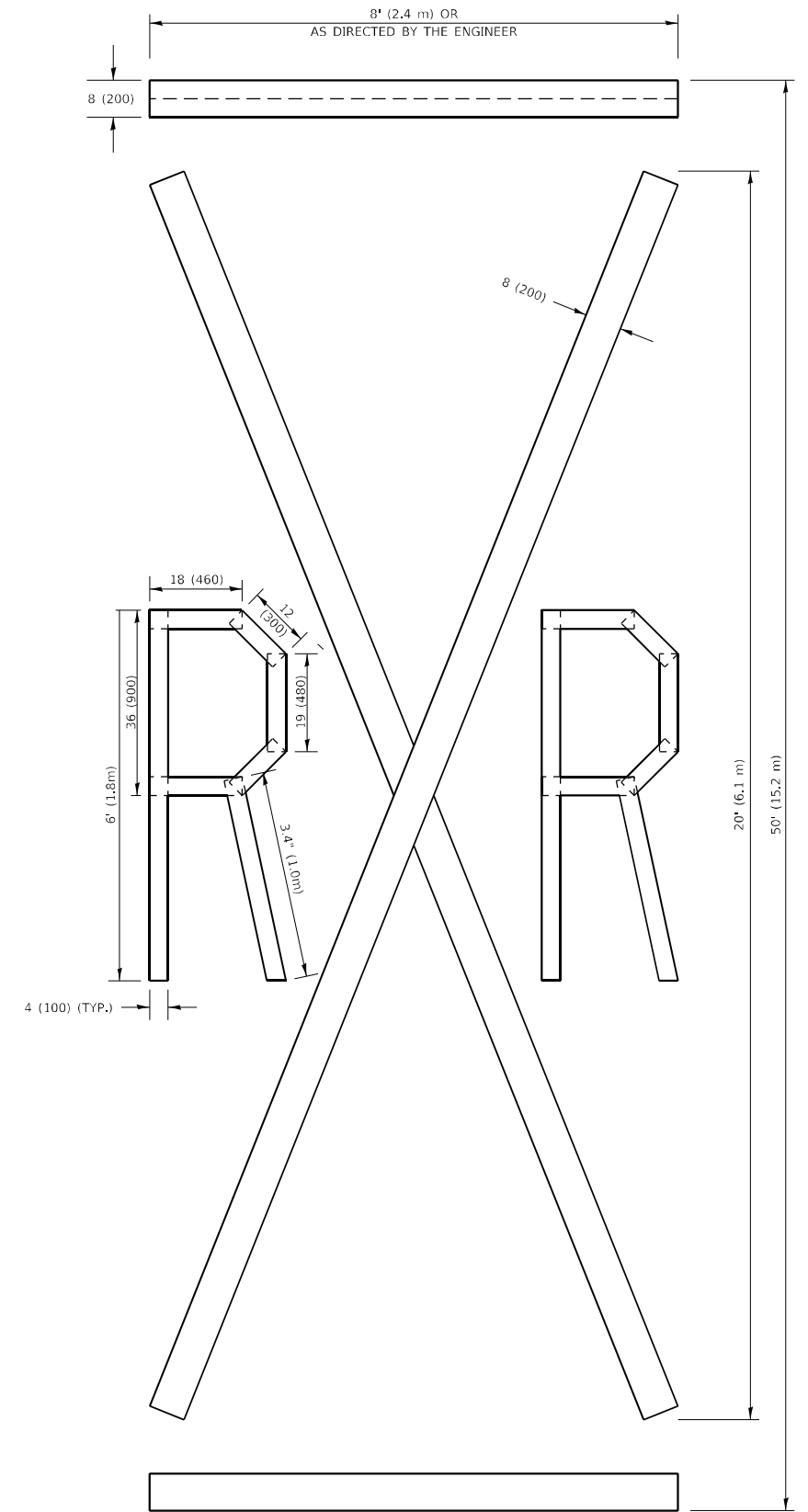


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

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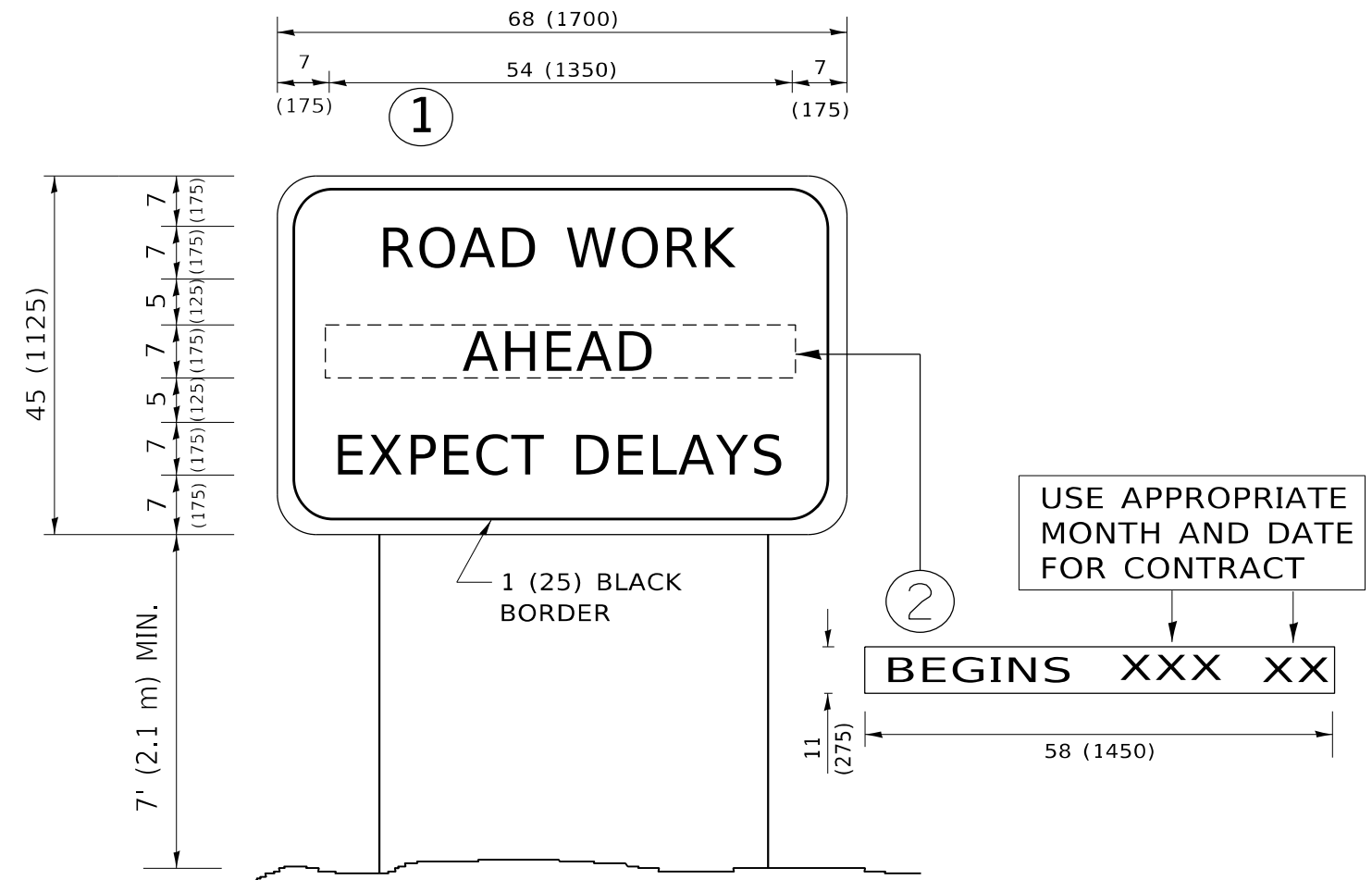
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PLOT DATE = 7/3/2024	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	FAP 311 22 TS	VAR	71	70
TC-16		CONTRACT NO. 62U21		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

MODEL: Default
 FILE NAME: p:\project\p105317\CADD\road\Design\01\Sheet.dgn

USER NAME = Fitz,Gillaume	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 7/3/2024	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	FAP 311 22 TS	VAR	71	71
TC-22			CONTRACT NO. 62U21	
ILLINOIS FED. AID PROJECT				