

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XX	2024-964-TS	VARIOUS	89	1
		ILLINOIS	CONTRACT NO. 62W89	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

SECTION NO.: 2024-964-TS  
PROJECT NO.: HSIP-IMTV(030)

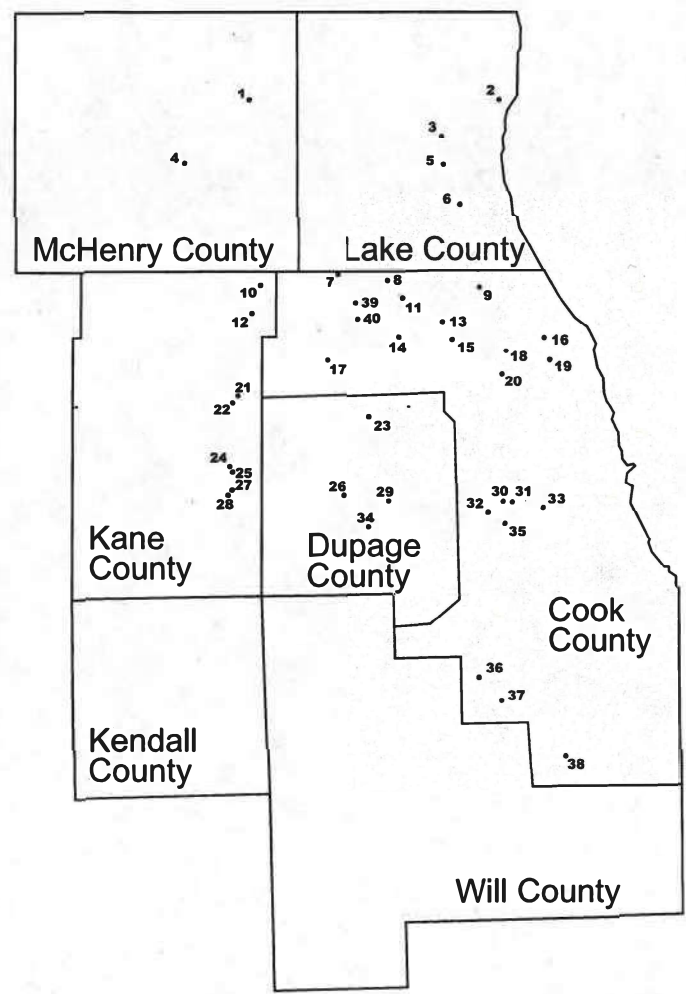
## VARIOUS ROUTES APS AND LPI PEDESTRIAN IMPROVEMENTS DISTRICT 1

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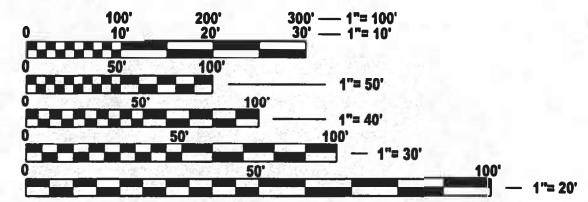
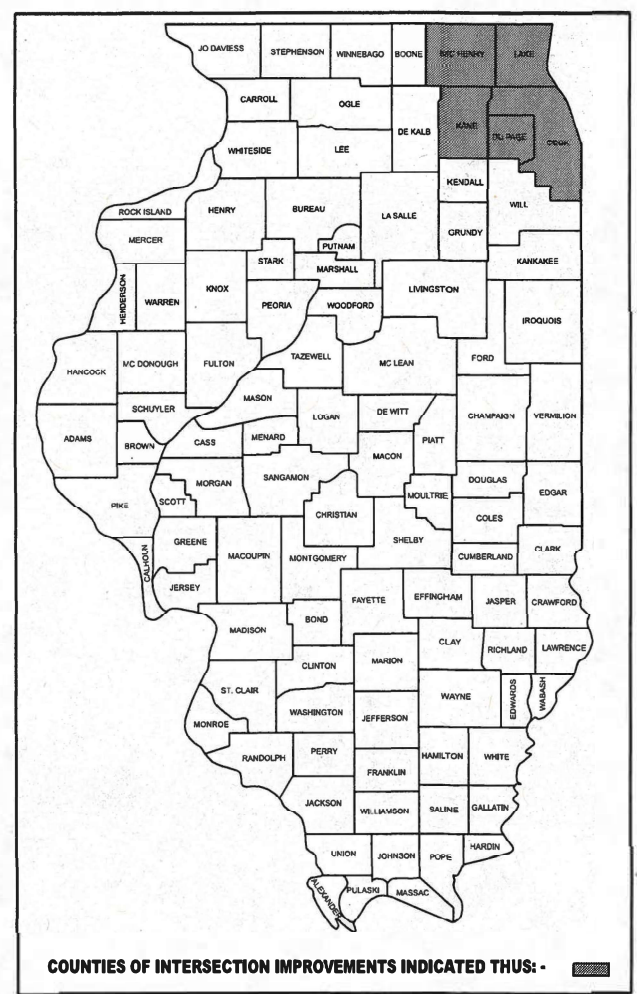
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- 5-11 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- 87-89 DISTRICT ONE STANDARD TRAFFIC CONTROL & PROTECTION DETAILS

SHT. NO.	TS NO.	INTERSECTION NAME
12-13	7290	IL RTE 31 AT IL RTE 120
14-15	14965	BELVIDERE ST AT GENESEE RD
16-17	6708	IL RTE 21 AT CASEY RD
18-19	7239	US RTE 14 AT DOTY RD
20-21	21490	IL RTE 21 AT LAKE ST
22-23	21410	IL RTE 21 AT CORPORATE WOODS PKWY
24-25	11282	LAKE COOK RD AT APPLEBEE ST
26-27	1160	US RTE 12 AT OLD HICKS RD
28-29	3137	IL RTE 68 AT ANTHONY TRAIL
30-31	4325	IL RTE 25 AT ROBIN RD
32-33	405	US RTE 12 AT KENNICOTT DR
34-35	885	IL RTE 72 AT RIVER ST
36-40	9645	U2 RTE 12 AT BUSINESS CENTER DR
41-42	9690	US RTE 14 AT PROSPECT RD
43-44	2865	IL RTE 58 AT WOLF RD
45-46	5157	IL RTE 58 AT WOODS DR
47-48	21130	BARRINGTON RD AT OLD CHURCH RD
49-50	9240	TOUHY AVE AT BUSSE HWY
51-52	12094	IL RTE 31 AT MCLEAN BLVD
53-54	20323	IL RTE 31 AT SILVER GLEN RD
55-56	4605	US RTE 20 AT NORTH CIRCLE AVE
57-58	10955	IL RTE 38 AT ANDERSON BLVD
59-60	10952	IL RTE 38 AT 7TH ST
61-62	15255	IL RTE 38 AT S. CARLTON AVE
63-64	785	IL RTE 25 (WASHINGTON ST.) AT WILSON ST
65-66	982	HIGHLAND AVE AT EASTGATE RD
67-68	3765	31ST ST AT GOLF VIEW RD
69-70	3760	DES PLAINES AVE AT 31ST ST
71-72	13920	US RTE 12-20-45 AT HOMESTEAD RD
73-74	11655	IL RTE 53 AT MAIN ST
75-76	3850	55TH ST AT JOLIET RD
77-78	159	IL RTE 7 (WOLF RD) AT 153RD ST
79-80	22060	US RTE 45 AT 171ST ST
81-82	12404	IL RTE 50 AT N GATEWAY DR
83-84	14715	PALATINE RD AT SMITH ST
85-86	5600	MEACHAM RD AT OLD PLUM GROVE RD



LOCATION MAP NOT TO SCALE



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: DOUG BRAZELTON  
PROJECT MANAGER: NICHOLAS BUTLER

CONTRACT NO. 62W89

SEE LOCATION LEGEND ON SHEET 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED July 31<sup>st</sup> 2025  
*McKin* REGIONAL ENGINEER

August 15 2025  
*Scott A. Etkin* ENGINEER OF DESIGN AND ENVIRONMENT

August 15 2025  
*Gregory* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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**GENERAL NOTES:**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS. 45 HOUR NOTIFICATION IS REQUIRED.

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

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

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

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

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

RESTORATION OF 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 109.09(b) OF STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACTS.

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

**HIGHWAY STANDARDS**

STD. NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
701901-10	TRAFFIC CONTROL DEVICES
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857006-04	SUPERVISED RAILROAD INTERCONNECT CIRCUIT
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**APS AND LPI PEDESTRIAN IMPROVEMENTS  
GENERAL NOTES**

SCALE: N.A. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	VARIOUS	89	3
<b>GEN-1</b>			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				HSIP FUNDS	
				90% FED / 10% STATE	
				TRAFFIC SIGNALS	
		0021			
		URBAN			
28000400	PERIMETER EROSION BARRIER	FOOT	496	496	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	70	70	
66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5	
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	56	56	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
72000100	SIGN PANEL - TYPE 1	SQ FT	5	5	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1048	1048	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	48	48	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	35	35	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	8148	8148	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	839	839	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	195	195	
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	129	129	
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	2	2	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	13131	13131	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	549	549	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2170	2170	
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	60	60	
87900200	DRILL EXISTING HANDHOLE	EACH	52	52	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	4	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	4	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	2	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	18	18	
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6	6	
88500100	INDUCTIVE LOOP DETECTOR	EACH	37	37	
88600100	DETECTOR LOOP, TYPE I	FOOT	194	194	
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	6	
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	8	8	
89502200	MODIFY EXISTING CONTROLLER	EACH	6	6	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4761	4761	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	35	35	
89502376	REBUILD EXISTING HANDHOLE	EACH	2	2	
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4	4	
X1400144	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	6	6	
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	15	15	
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	5	5	
X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	45	45	
X1400486	UNINTERRUPTABLE POWER SUPPLY-UPS	EACH	2	2	
X2010516	SELECTIVE CLEARING	UNIT	3	3	
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	2853	2853	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				HSIP FUNDS	
				90% FED / 10% STATE	
				TRAFFIC SIGNALS	
		0021			
		URBAN			
X8040108	ELECTRIC METER	EACH	1	1	
X8510204	PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	24	24	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	11	11	
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	6	6	
X8571215	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1	1	
X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	2	2	
X8620310	REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	17	17	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	136	136	
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	200	200	
X8809005	LED SIGNAL FACE, LENS COVER	EACH	13	13	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	34	34	
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2	2	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
Ø Z0076600	TRAINEES	HOUR	500	500	
Ø Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	500	500	

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PLOT DATE = 8/4/2025	CHECKED - DB	REVISED -
	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.A. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS		89	4
<b>S00-1</b>			CONTRACT NO. 62W89	
ILLINOIS   FED. AID PROJECT				

Ø 0042

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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**ATLAS**  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

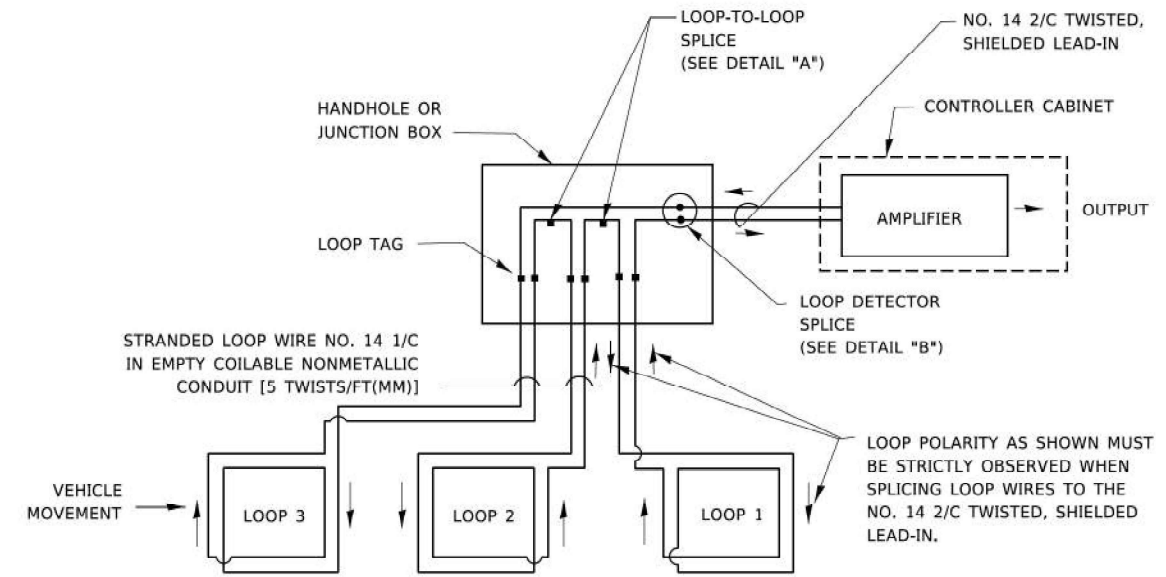
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE    SHEET 1 OF 7 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	VARIOUS	89	5
<b>TS-5</b>			CONTRACT NO. 62W89	
ILLINOIS   FED. AID PROJECT				

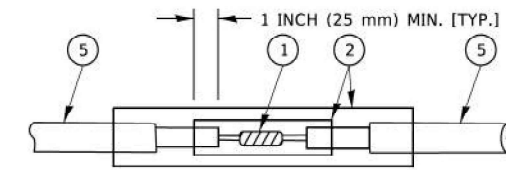
**LOOP DETECTOR NOTES**

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 DIVESHOLES 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.

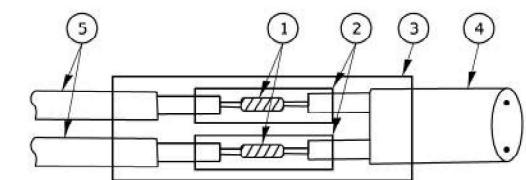


**DETECTOR LOOP WIRING SCHEMATIC**

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

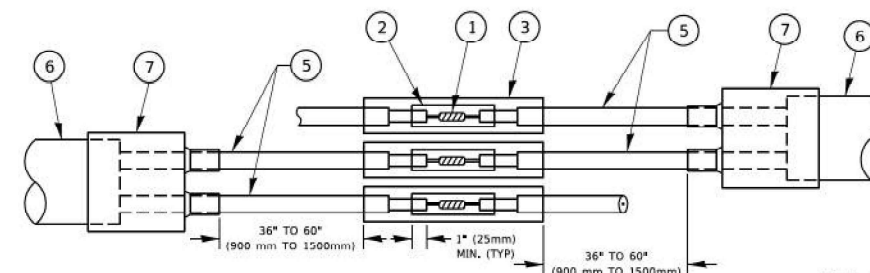


DETAIL "A"  
LOOP-TO-LOOP SPLICE

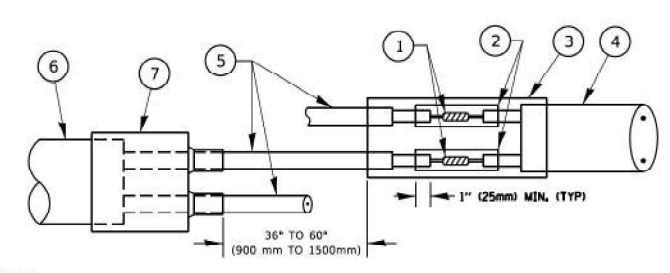


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE

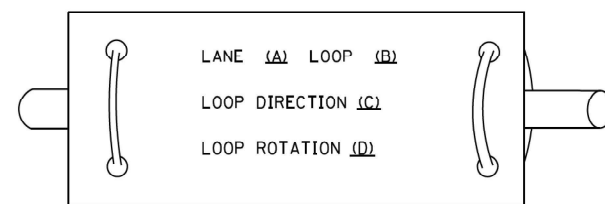


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

**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.

- 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. PRE-FORMED LOOP
- ⑥ XL POLYOLEFIN 2 CONDUCTOR
- ⑦ BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

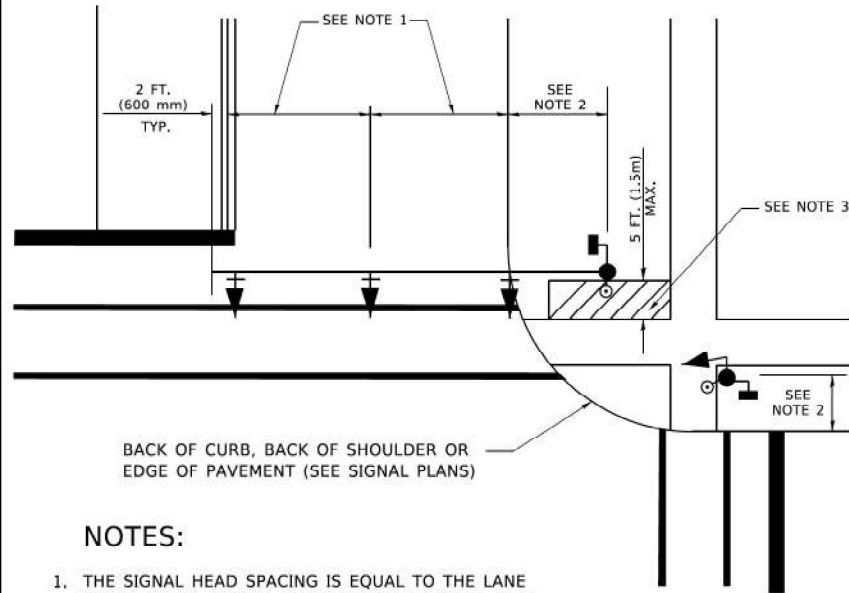
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PLOT SCALE = 40.001' / in.	CHECKED - DB	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	VARIOUS	89	6
<b>TS-5</b>			CONTRACT NO. 62W89	
ILLINOIS		FED. AID PROJECT		

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

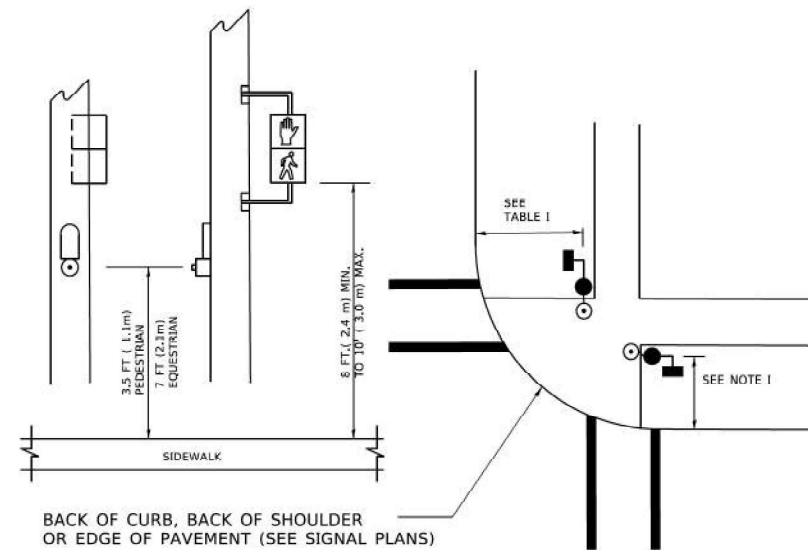
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**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."

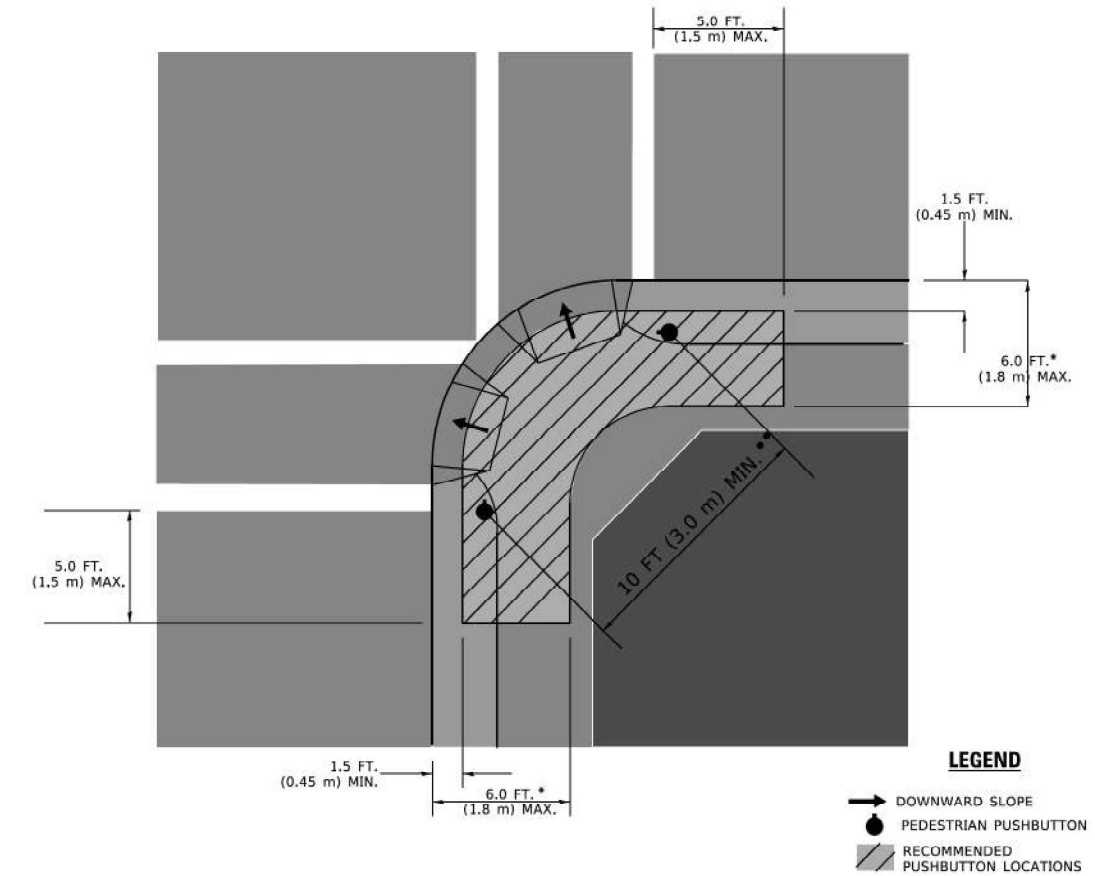
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**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**



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

**NOTES:**

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

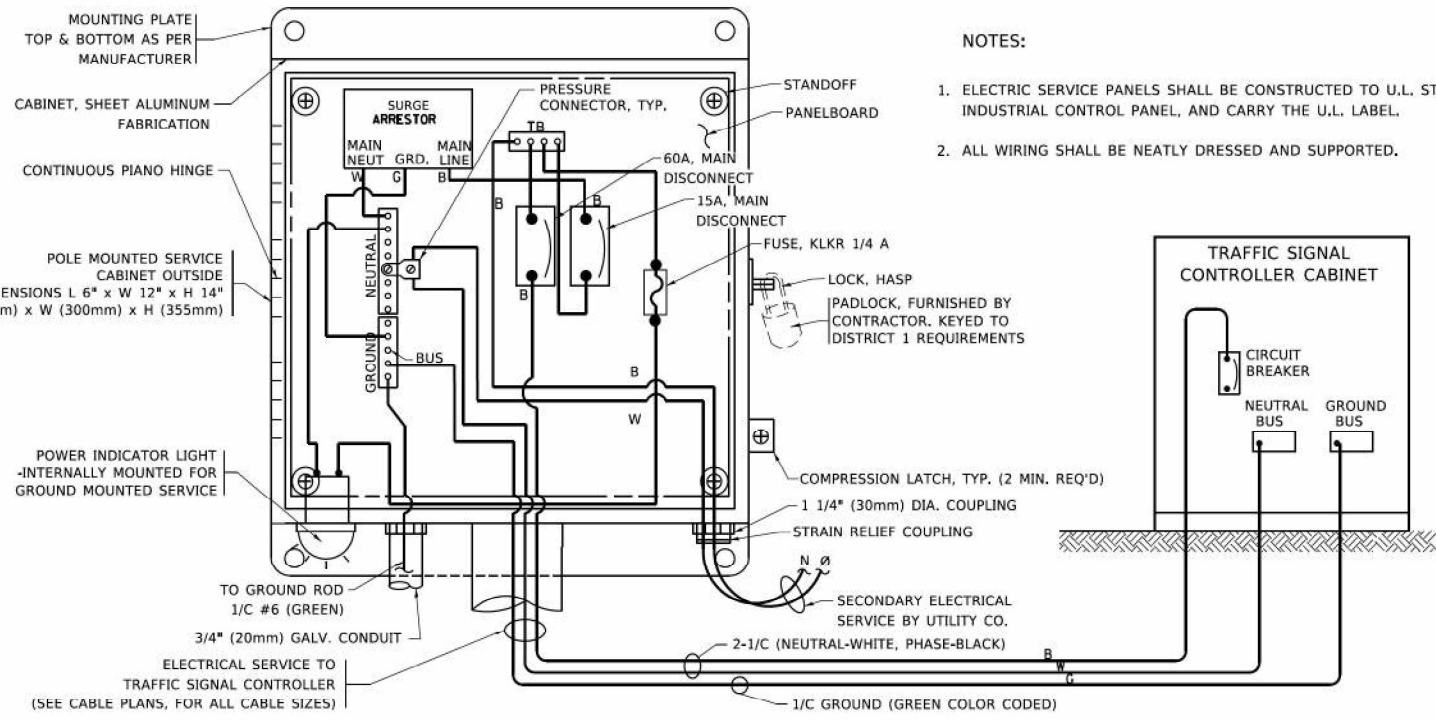
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

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

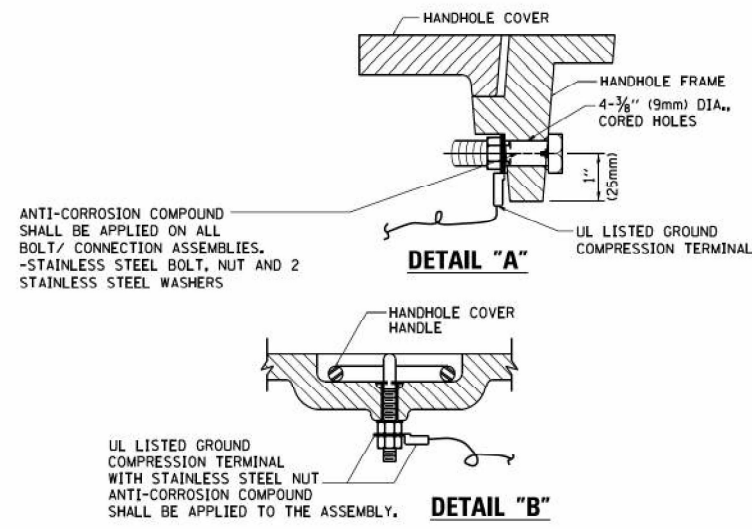
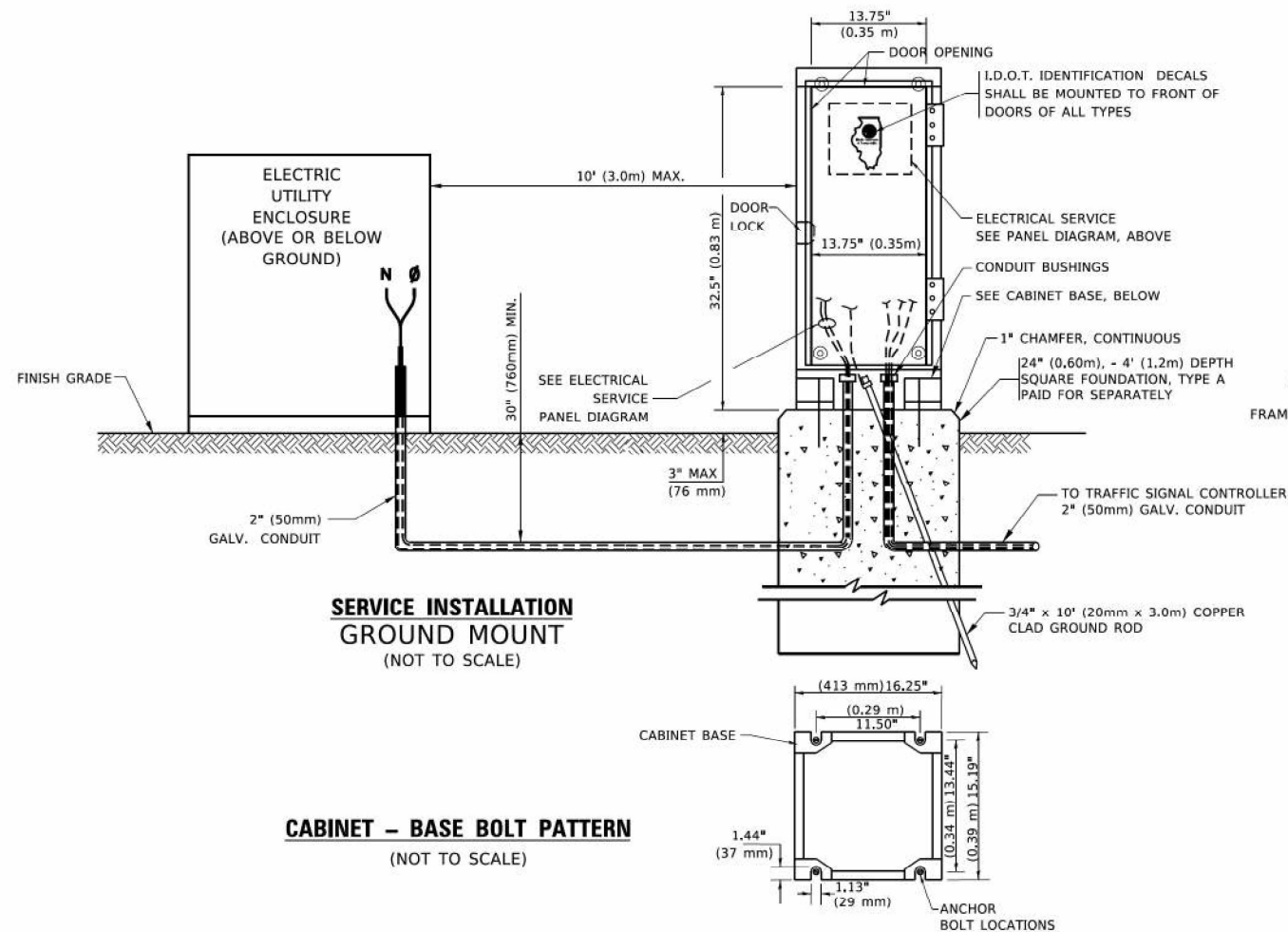
**NOTES:**

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

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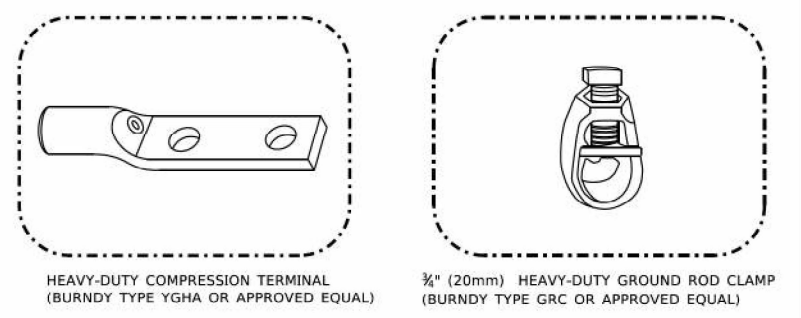
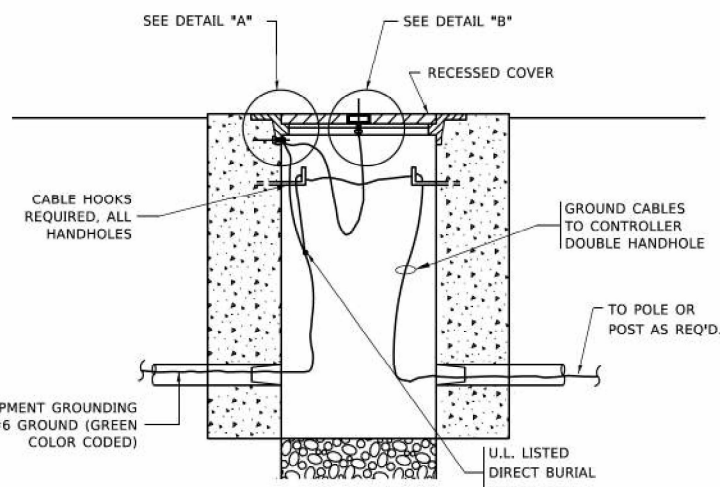


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



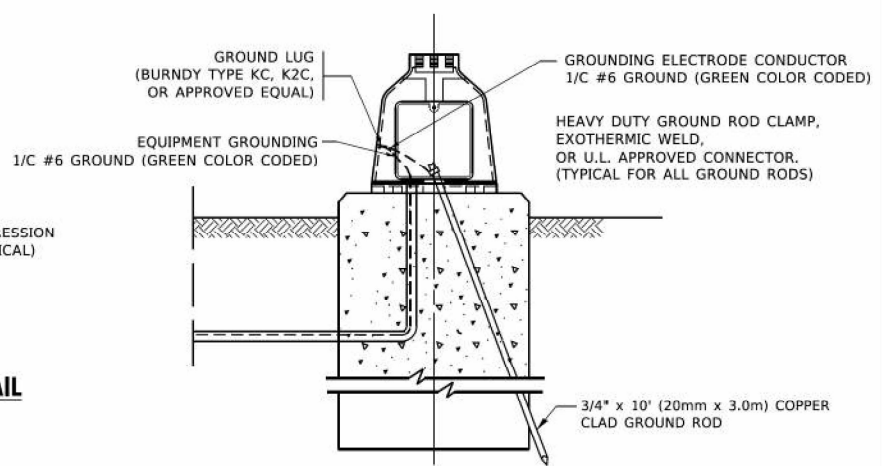
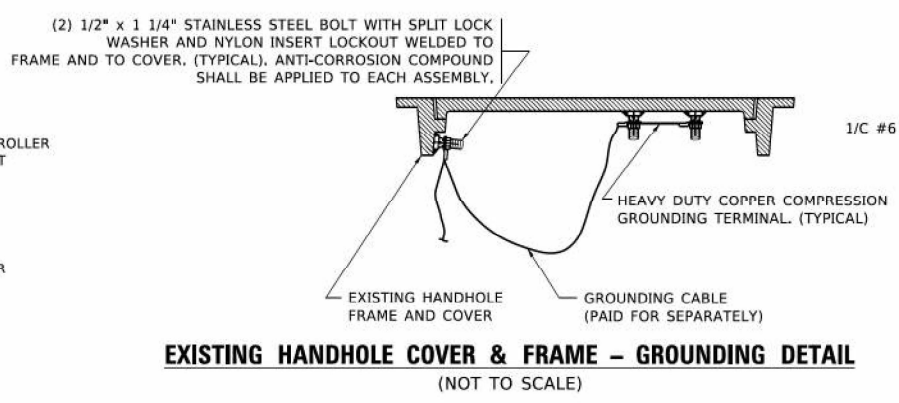
**NOTES:**  
**GROUNDING SYSTEM**

- 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.



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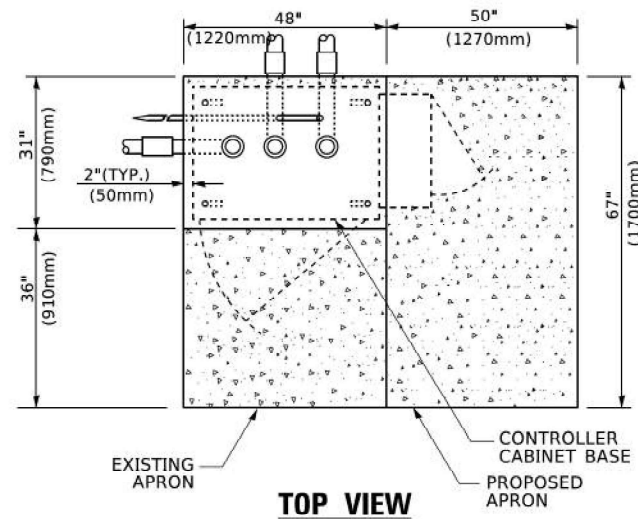
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

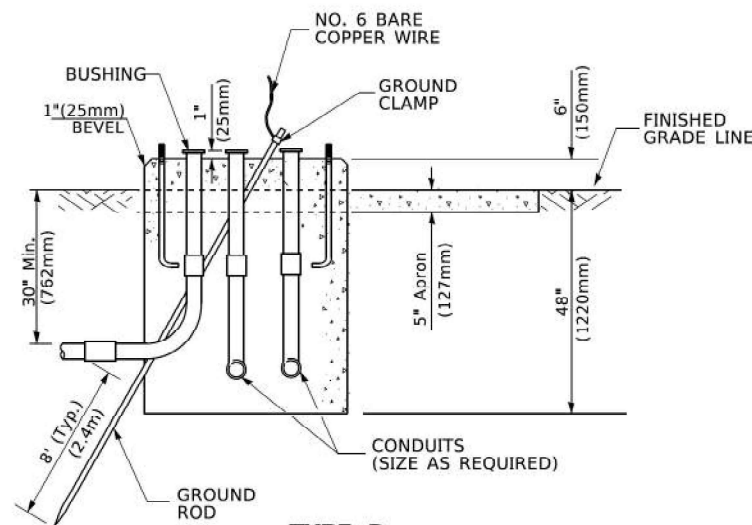
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<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TS-5</b>		CONTRACT NO. 62W89		
ILLINOIS		FED. AID PROJECT		

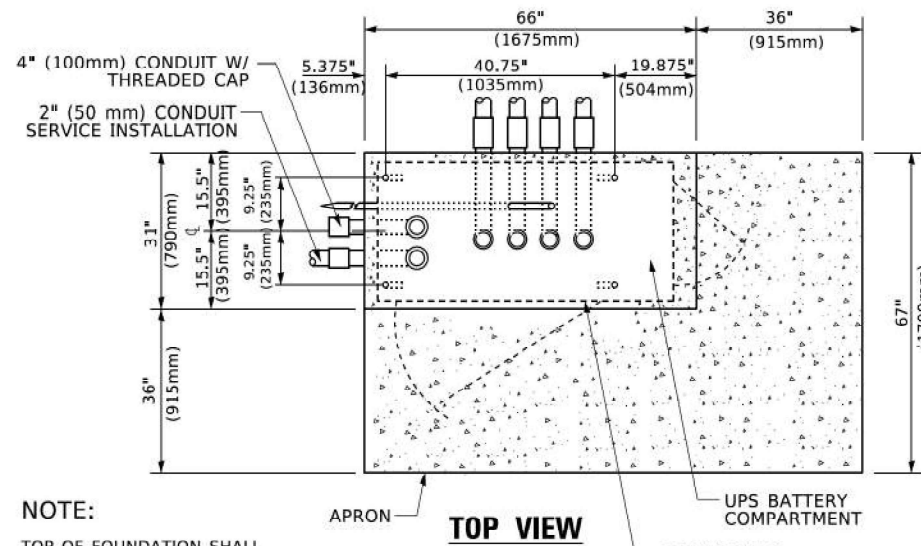




**TOP VIEW**

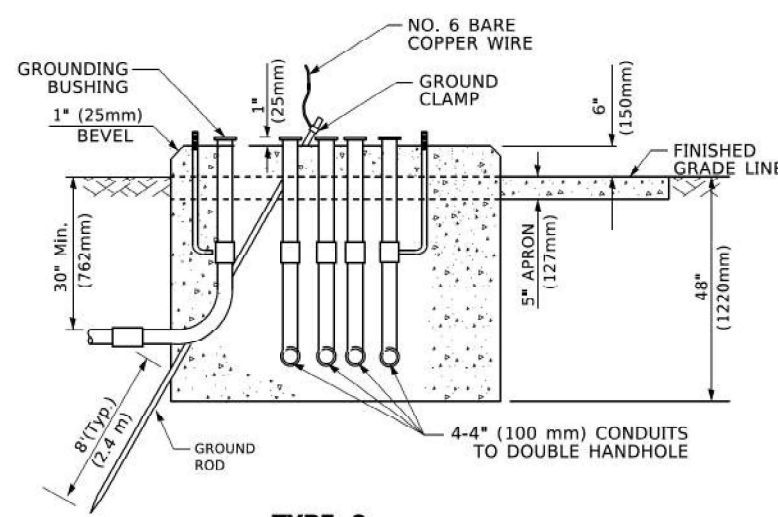


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

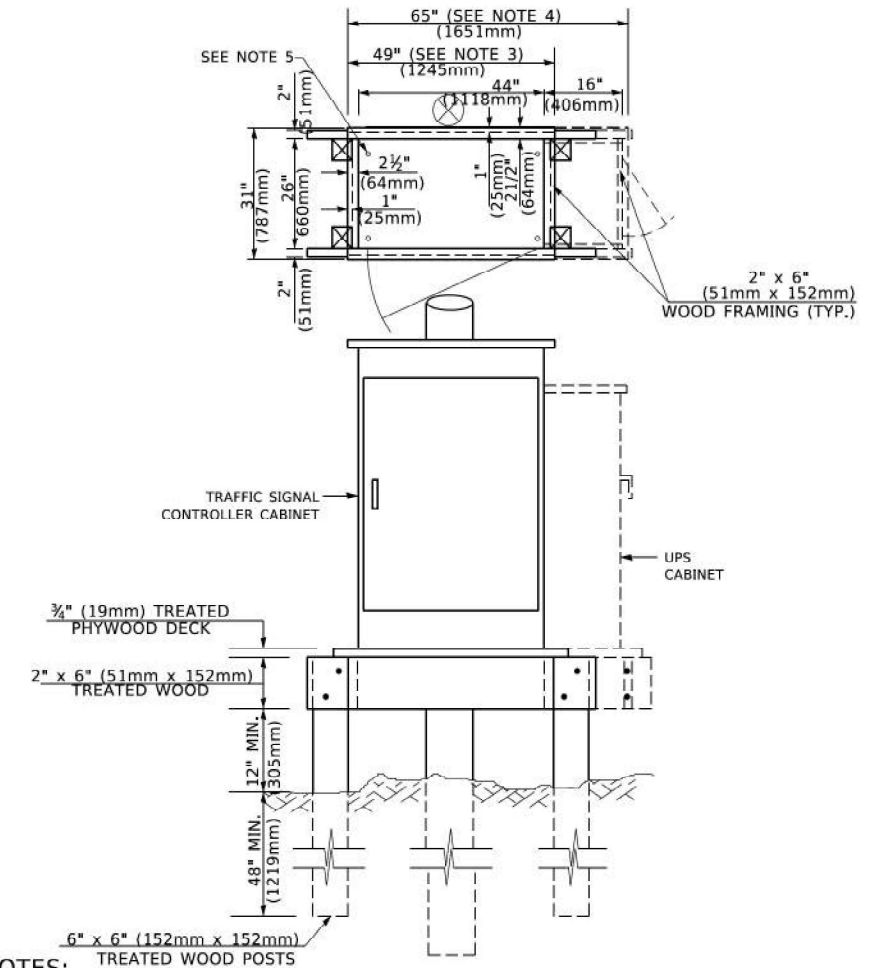


**TOP VIEW**

**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:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**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 55' (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 up to 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:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (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.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

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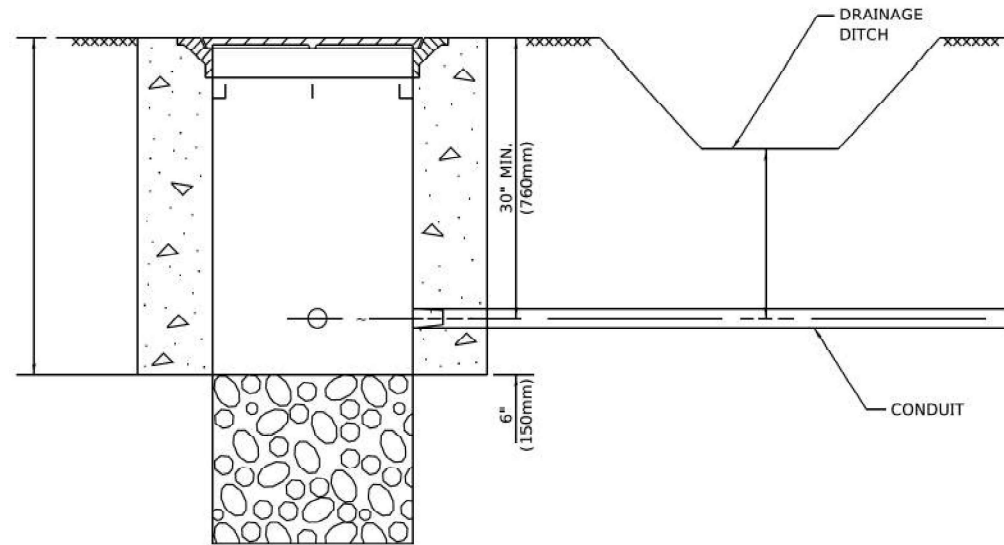
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	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

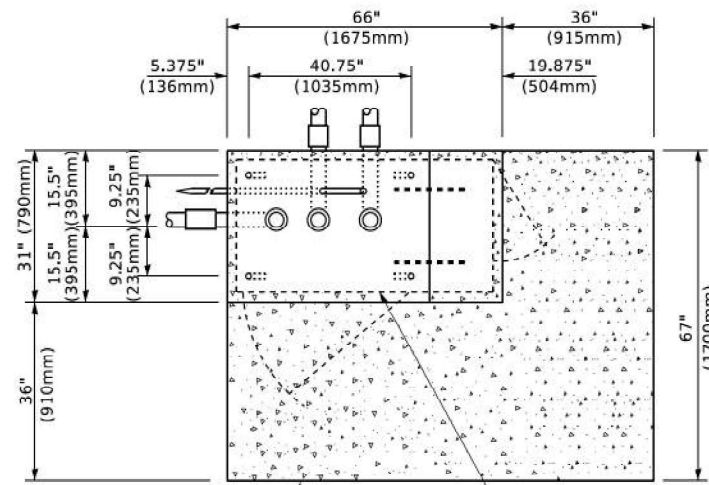
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<b>TS-5</b>			CONTRACT NO. 62W89	
ILLINOIS / FED. AID PROJECT				



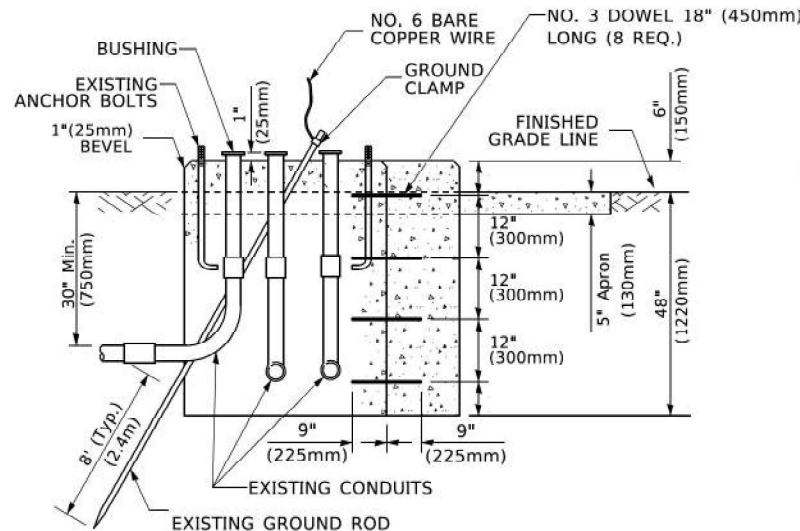
**NOTES:**

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.

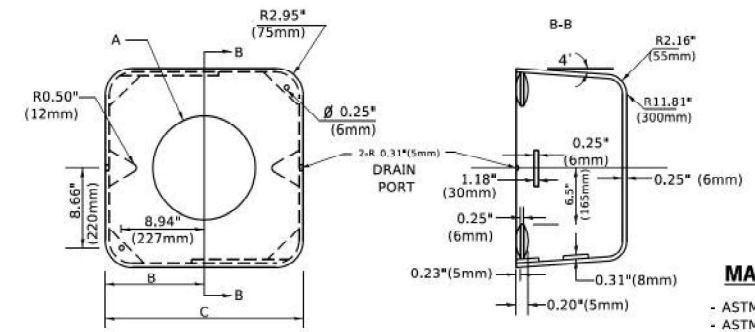
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)



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



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

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

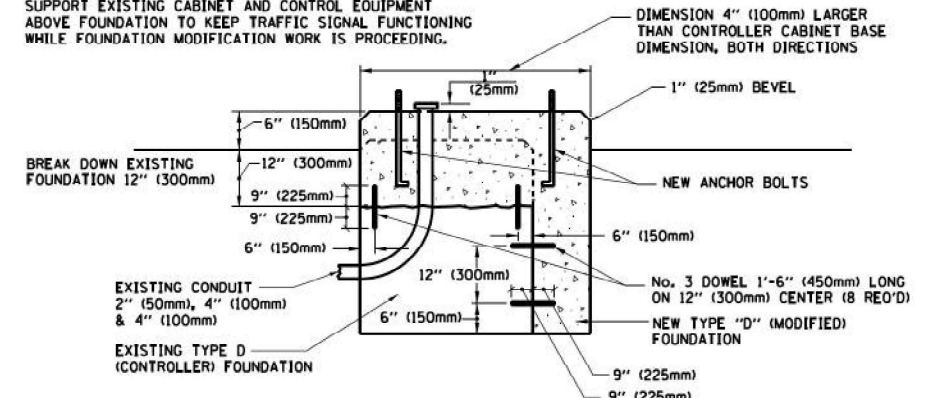
**SHROUD**

**NOTES:**

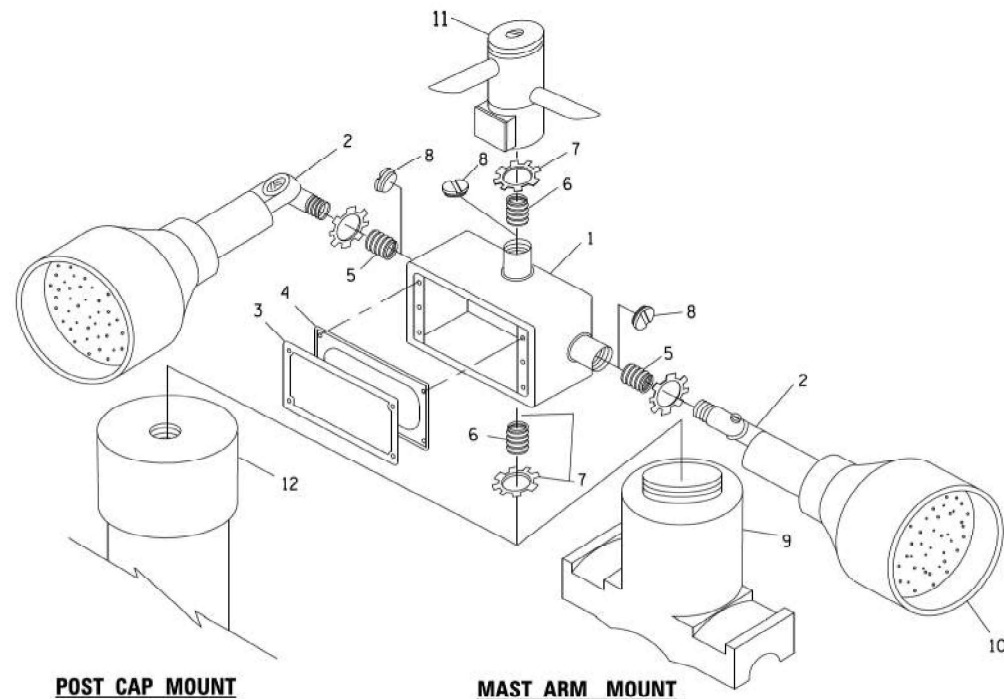
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

**NOTE:**

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



**MODIFY EXISTING TYPE "D" FOUNDATION**



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.]

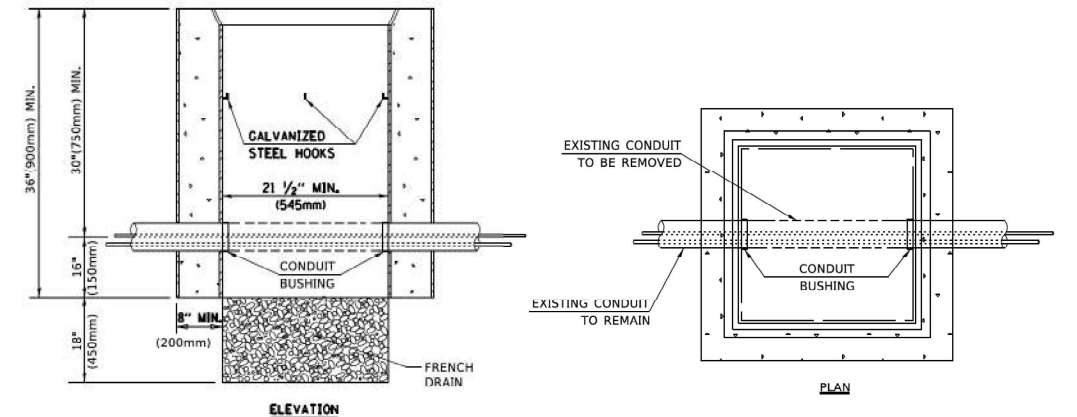
**NOTES:**

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.

**POST CAP MOUNT**

**MAST ARM MOUNT**

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**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**

MODEL: D:\atlas\Projects\2024\10-DOCT-VerPhi\TS&Mgmt-TSP\Project\Work\CADD\CADD\_Sheets\C1\_General\Sheet\2024\88-Standard\_Drawing\_28.dgn

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

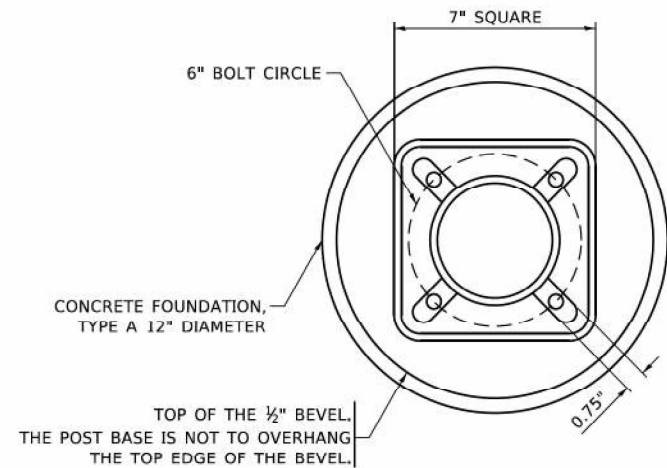
USER NAME	DESIGNED	REVISIONS
dbriones	DLB	-
	JK	-
	DB	-
		-
		-
		-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

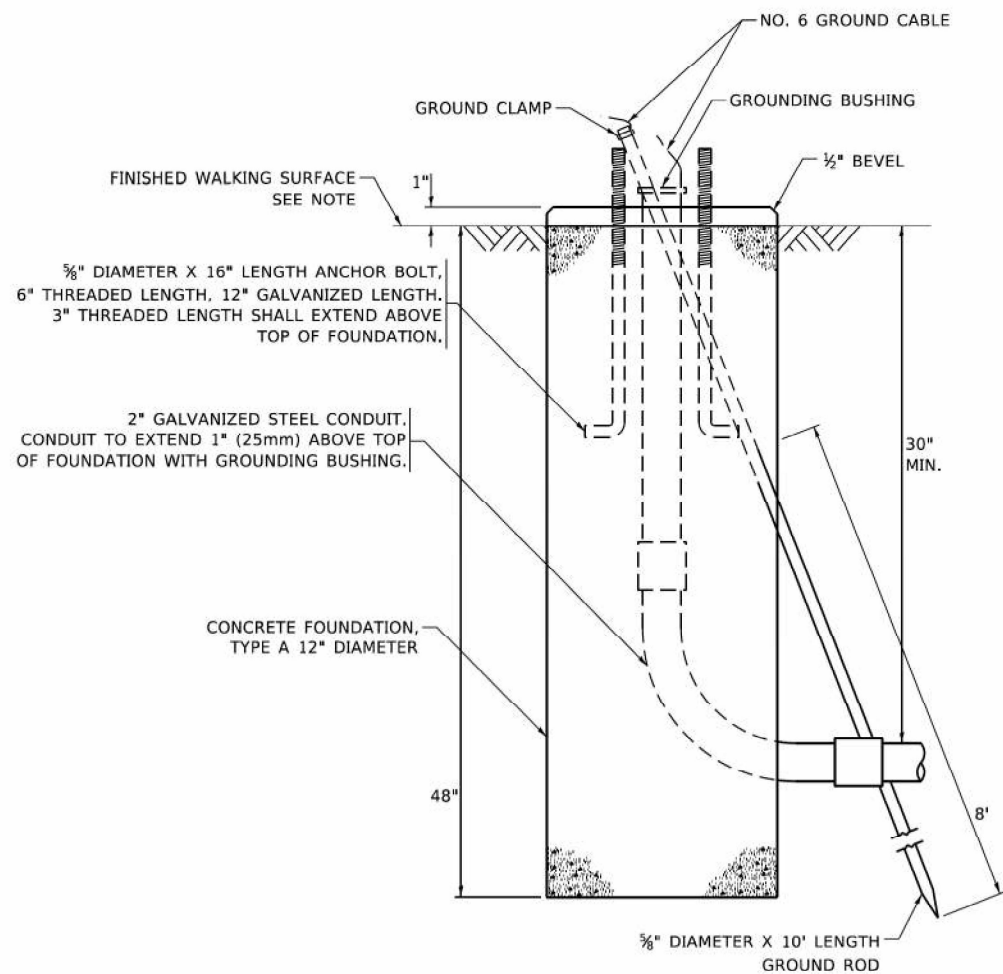
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XXX	2024-984-TS	VARIOUS	89	10
<b>TS-5</b>			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				



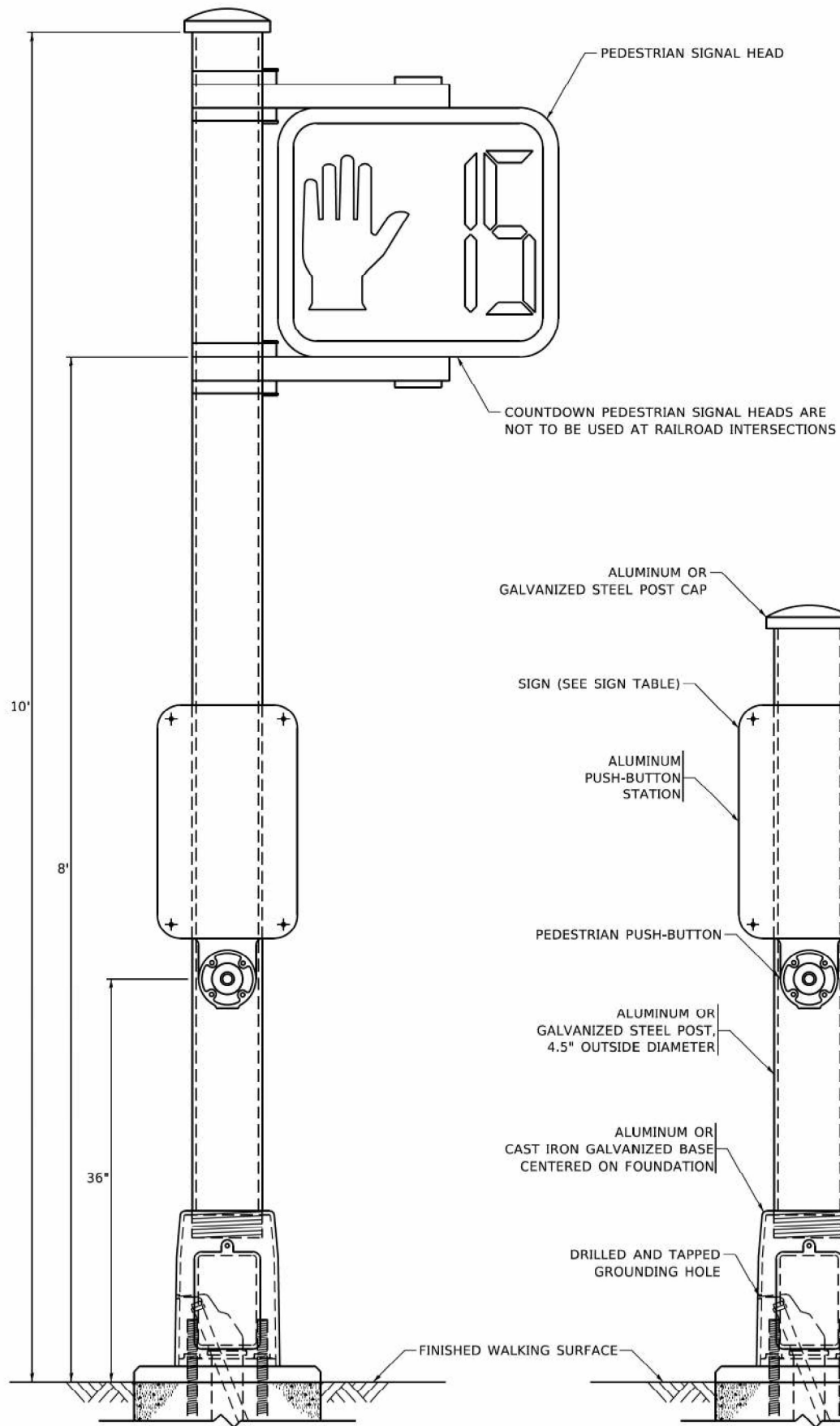
**BOLT PATTERN**

**NOTE:**

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

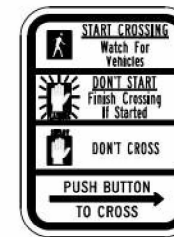


**CONCRETE FOUNDATION,  
TYPE A 12-INCH DIAMETER**

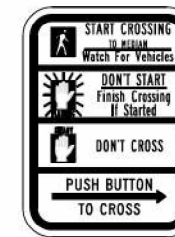


**PEDESTRIAN SIGNAL POST, 10 FT.**

**PEDESTRIAN SIGNAL POST, 5 FT.**



**R10-3b**



**R10-3d**



**R10-3e**

COUNTDOWN PEDESTRIAN SIGNAL HEADS ARE NOT TO BE USED AT RAILROAD INTERSECTIONS

**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: Detail; FILE NAME: S:\Projects\2211 - DOT D1 Vt Final E&M - TSP\Project Work\KICADDICADD\_Sheets\0 - General Sheet\2211-08-Standard Drawing-07.dgn



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PLOT DATE = 7/31/2025	CHECKED - DB	REVISED -
	DATE - 07/31/2025	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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	VARIOUS	89	11
<b>TS-5</b>			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

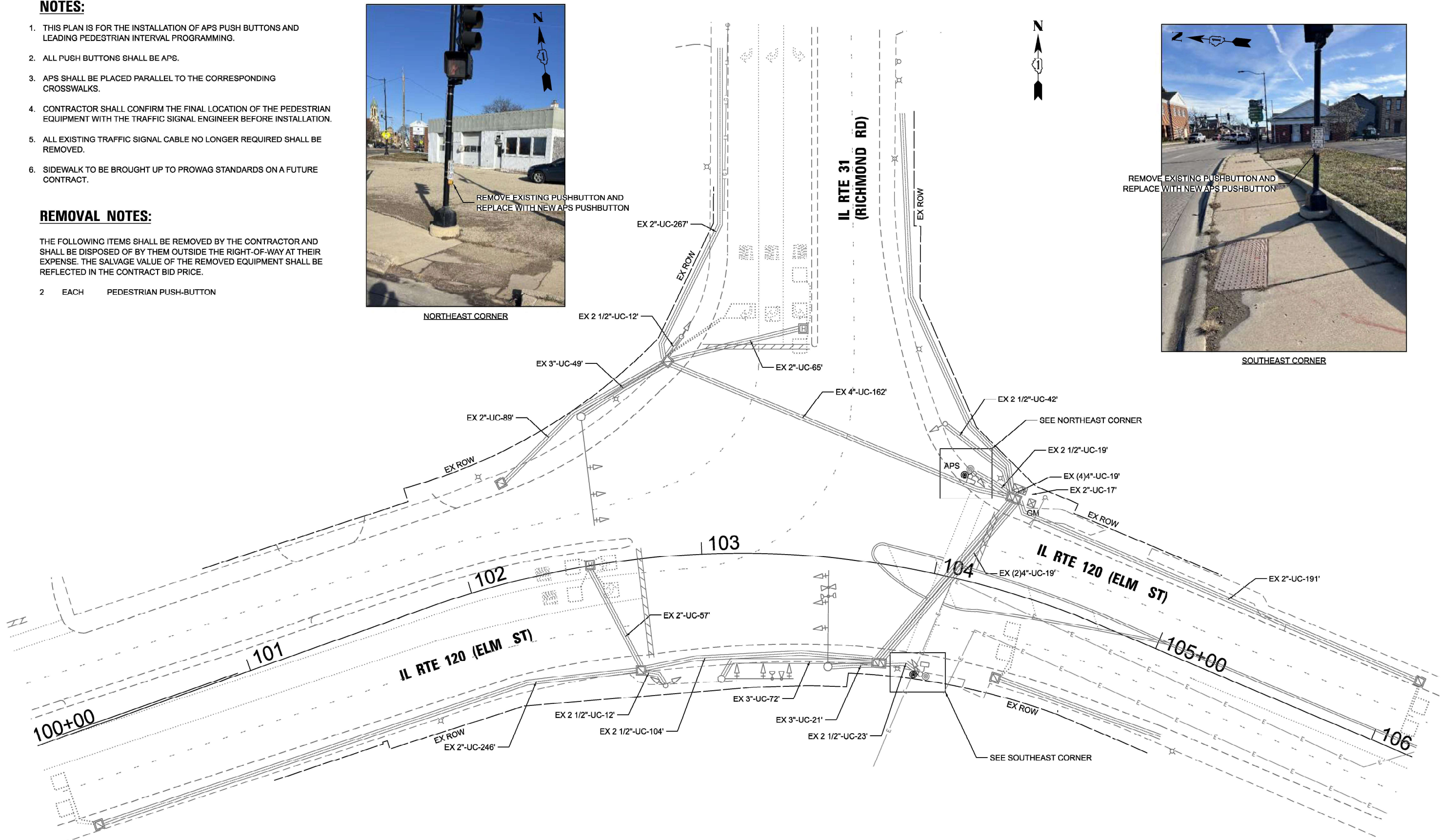
- 2 EACH PEDESTRIAN PUSH-BUTTON



NORTHEAST CORNER



SOUTHEAST CORNER



TS 7290  
EAGLE 40

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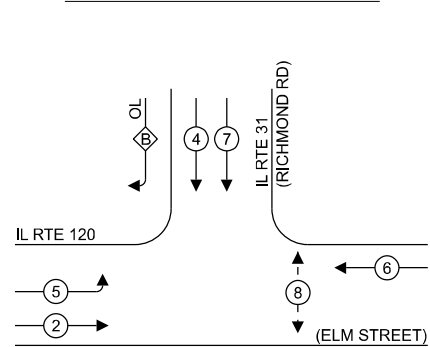
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	DRAWN - JK	REVISED -
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PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
ILLINOIS ROUTE 31 AT ILLINOIS ROUTE 120  
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	MCHENRY	89	12
			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				

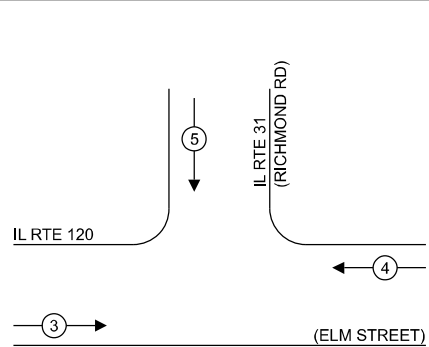
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

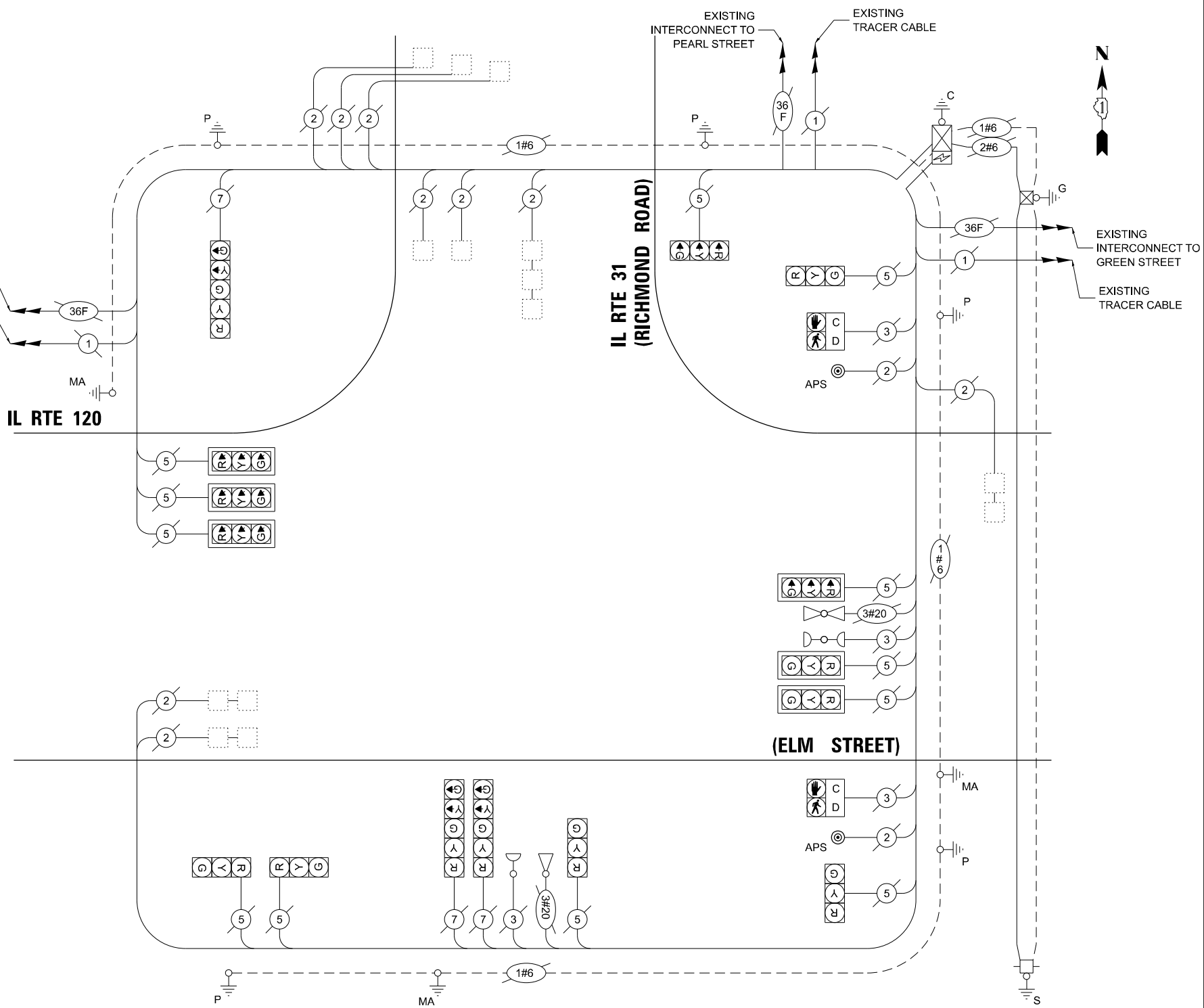
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	12	11	132.0
	4 - SECTION	-	14	-
	5 - SECTION	3	13	39.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	2	15	30.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 376.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 981.0				

ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 W CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: CASSIE EVANS  
 PHONE: 773-241-0741  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 5254846166

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ILLINOIS ROUTE 31 AT ILLINOIS ROUTE 120**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	MCHENRY	89	13
				CONTRACT NO. 62W89

ILLINOIS FED. AID PROJECT

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USER NAME =	dbriones
PLOT SCALE =	40,000' / in.
PLOT DATE =	7/31/2025

DESIGNED -	DLB	REVISED -	
DRAWN -	JK	REVISED -	
CHECKED -	DB	REVISED -	
DATE -	07/31/2025	REVISED -	

**TS 7290 EAGLE 40**

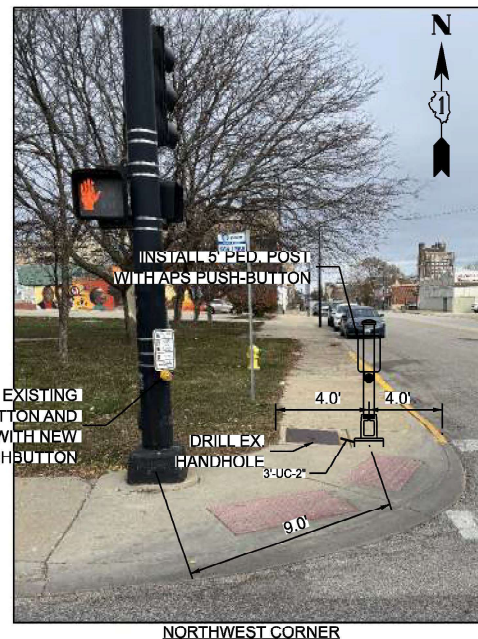
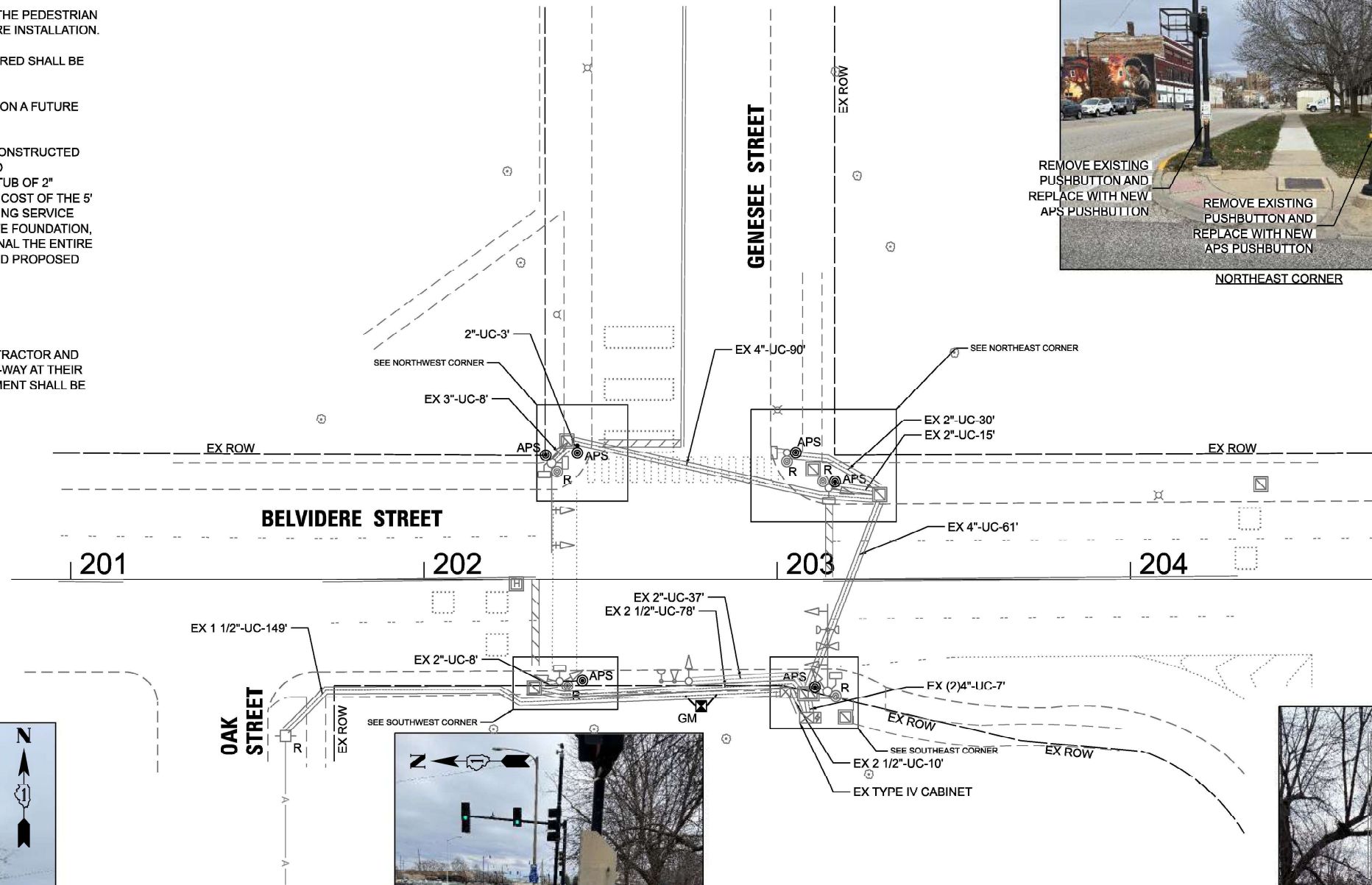
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**REMOVAL 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.

- |   |      |                          |
|---|------|--------------------------|
| 5 | EACH | PEDESTRIAN PUSHBUTTON    |
| 1 | EACH | CONTROLLER (ASC/2S-1000) |
| 1 | EACH | SERVICE INSTALLATION     |



TS 14965  
ECON 204  
LAKE CO – CENTRACS

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**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

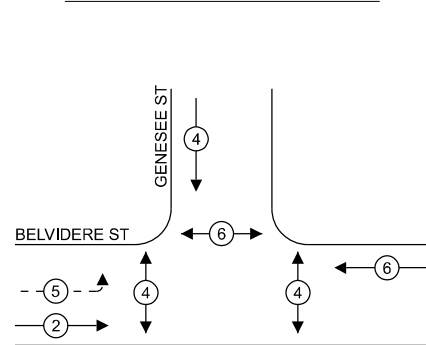
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
BELVIDERE STREET AT GENESSEE STREET

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. XXX	SECTION 2024-984-TS	COUNTY LAKE	TOTAL SHEETS 89	SHEET NO. 14
ILLINOIS			FED. AID PROJECT	

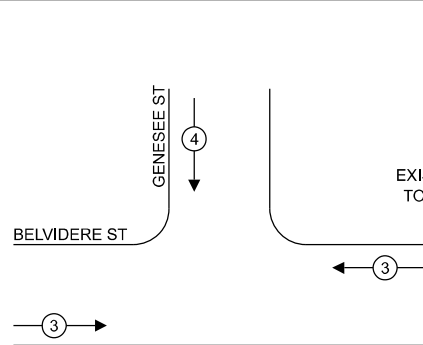
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH THE EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

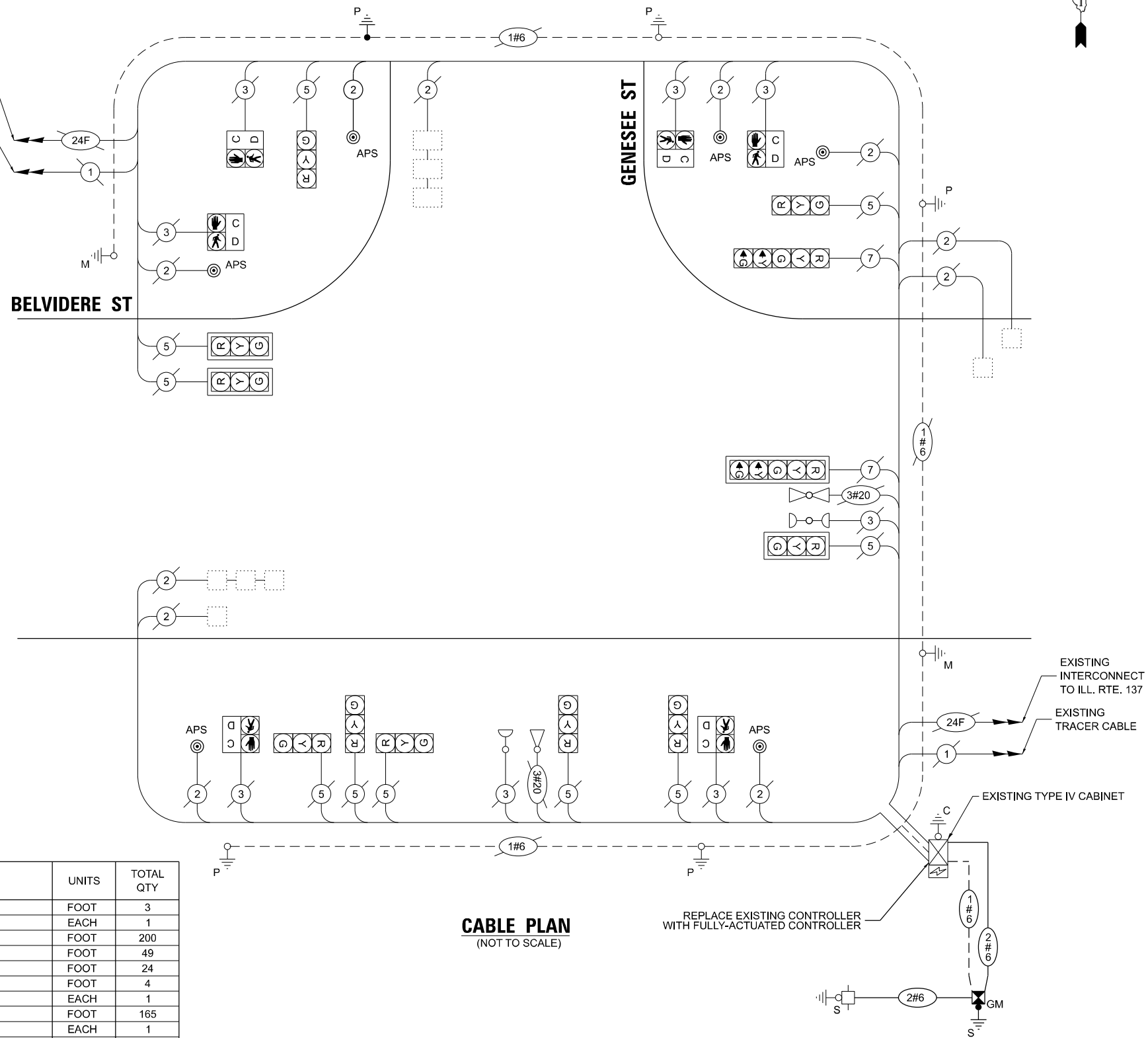
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	10	11	110.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
<b>PED. SIGNAL</b>				
CONTROLLER	6	15	180	
MASTER CONTROLLER	1	150	150.0	
UPS	-	100	-	
DETECTION	1	25	25.0	
RADAR	-	20	-	
VIDEO	-	20	-	
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING = 491.0</b>				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING = 1096.0</b>				

ENERGY COSTS TO:  
**CITY OF WAUKEGAN**  
 100 N MARTIN LUTHER KING JR. AVE  
 WAUKEGAN, IL 60085

ENERGY SUPPLY: CONTACT: DANIEL MENDEZ  
 PHONE: 773-799-6111  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 7114128111

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	200
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	49
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	24
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	165
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 BELVIDERE STREET AT GENESSEE STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	LAKE	89	15
CONTRACT NO. 62W89				

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

**TS 14965**  
**ECON 204**  
**LAKE CO - CENTRACS**

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 PLOT DATE: 7/31/2025



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 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

ILLINOIS FED. AID PROJECT







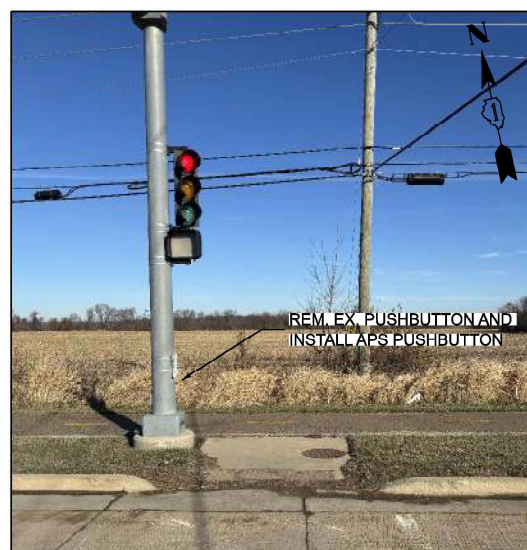
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

- 2 EACH PEDESTRIAN PUSHBUTTON



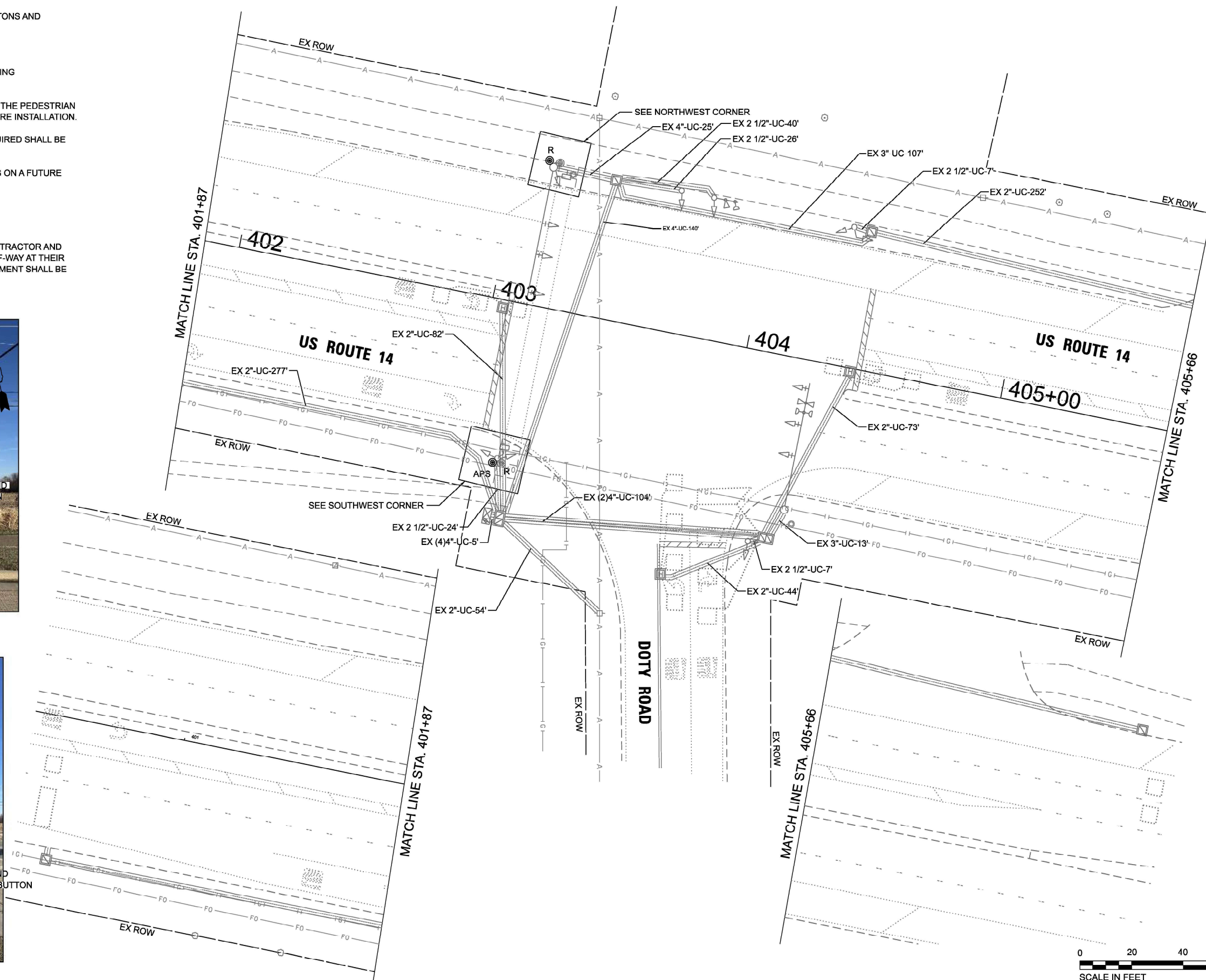
REM. EX. PUSHBUTTON AND INSTALL APS PUSHBUTTON

NORTHWEST CORNER



REM. EX. PUSHBUTTON AND REPLACE NEW APS PUSHBUTTON

SOUTHWEST CORNER



TS 7239  
ECON 195

MODEL: D:\atlas\... FILE NAME: S:\projects\219 - DOTD - Var Phis TES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\03\_TS 7239 - US 14 at Doty\DOTD\08-407\US 14 at Doty\_Rd\_Signal\_Plan.dgn



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PLOT SCALE = 40.000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

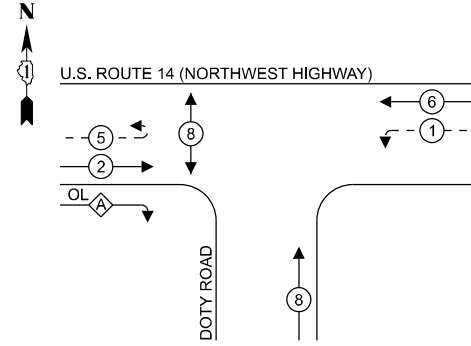
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
US ROUTE 14 AT DOTY ROAD

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	MCHENRY	89	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W89	

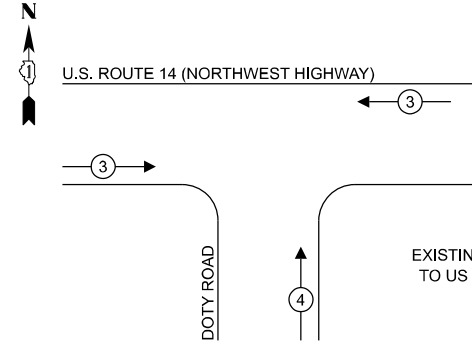
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 8

**NOTE:**

TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	6	13	78.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	2	15	30.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 371.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 976.0				

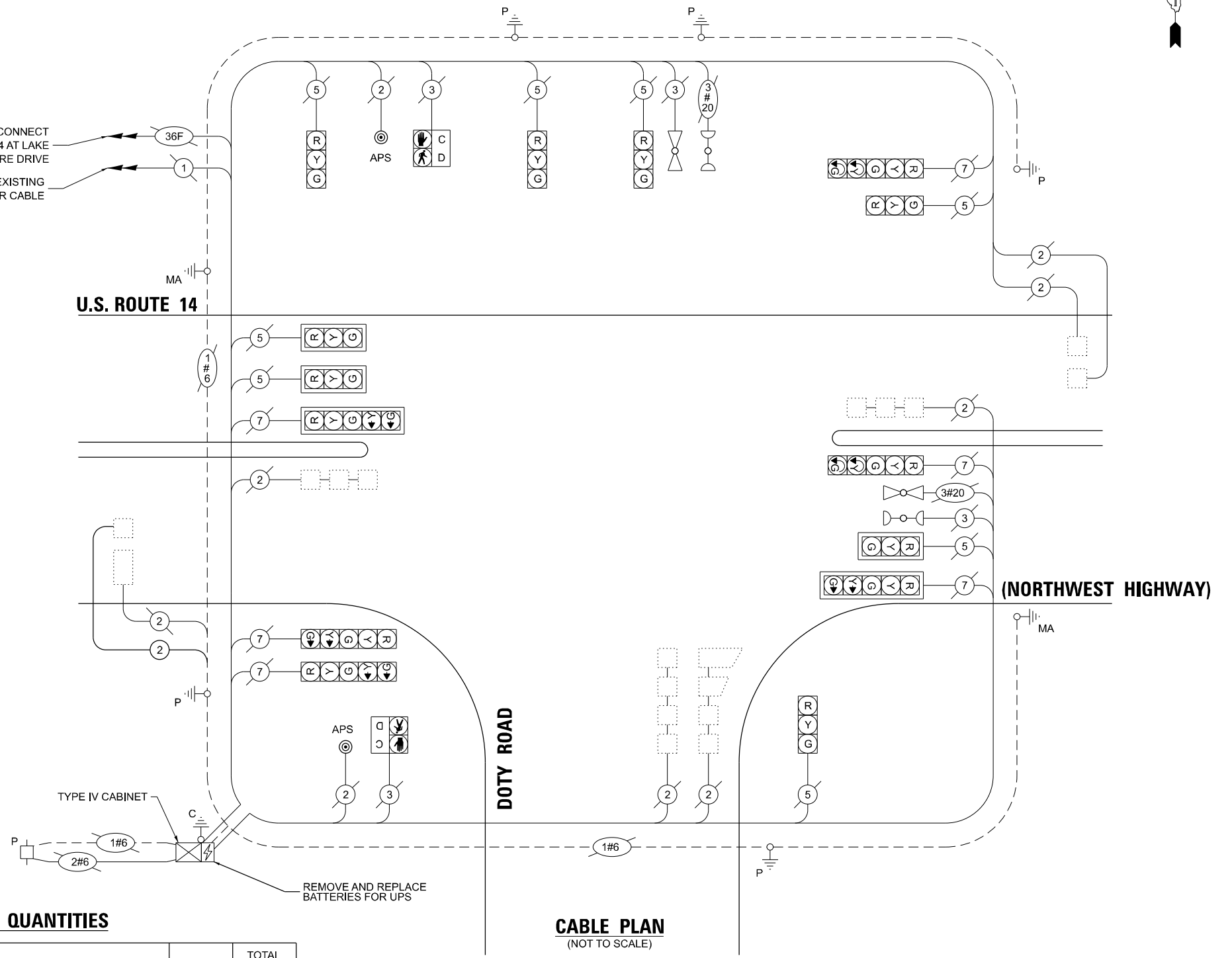
ENERGY COSTS TO:  
**CITY OF WOODSTOCK**  
 121 W CALHOUN ST  
 WOODSTOCK, IL 60098

ENERGY SUPPLY: CONTACT: CASSIE EVANS  
 PHONE: 773-241-0741  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 7882167000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	309
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**U.S. ROUTE 14**



**CABLE PLAN**  
(NOT TO SCALE)

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 US ROUTE 14 AT DOTY ROAD**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	MCHENRY	89	19
CONTRACT NO. 62W89				

ILLINOIS FED. AID PROJECT

**TS 7239  
 ECON 195**

MODEL: D:\ch14... FILE NAME: S:\proj\ts7239-14\DOTY.D1\_Ver.FIN\TES & Mplan-TSIP\proj\Work\CADD\CADD\_Sheets\08\_TS 7239-14 at Doty Rd\_Cable Plan.dgn

**ATLAS**  
 ATLAS TECHNICAL CONSULTANTS, LLC  
 100 S. WACKER DRIVE, SUITE 400  
 CHICAGO, IL 60606

USER NAME = dbriones  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

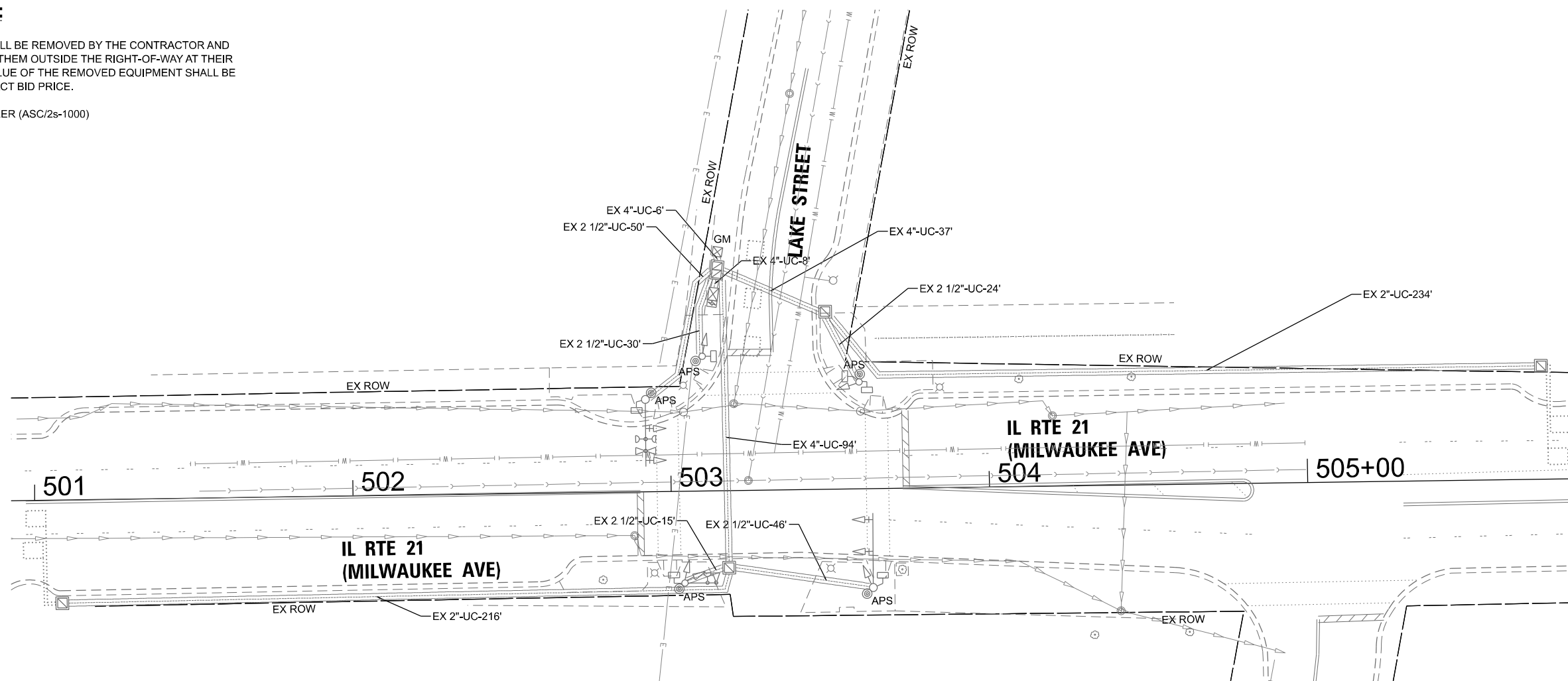
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF LEADING PEDESTRIAN INTERVAL PHASE.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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 (ASC/2s-1000)



**TS 21490  
ECON 7  
(LAKE CO – CENTRACS)**

MODEL: D:\p1\m...  
 FILE NAME: S:\projects\2116 - DOT\1 - DOT\1 - Ver Final\TES & Mgmt - TSIP\Project\Work\CADD\CADD\_Sheets\07\_TS 21490 - E 7 (Milwaukee Ave) at Lake St\_Signals Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
DRAWN - JK	CHECKED - DB	REVISED -
PLOT SCALE = 40,000' / 1" IN.	DATE - 07/31/2025	REVISED -
PLOT DATE = 7/31/2025		

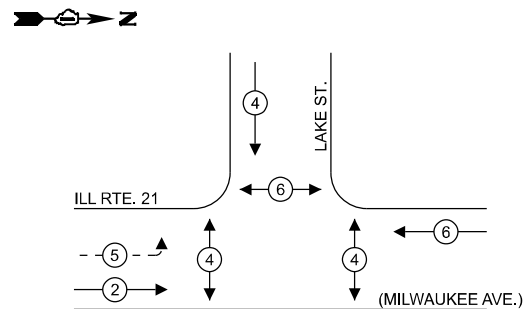
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
ILLINOIS ROUTE 21 (MILWAUKEE AVENUE) AND LAKE STREET**

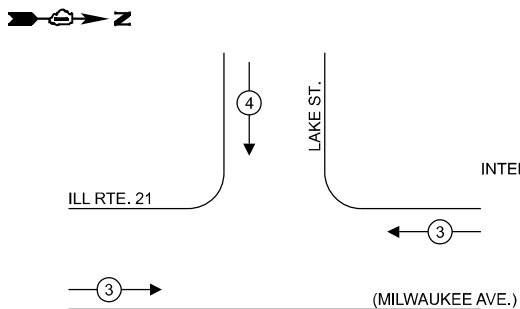
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	LAKE	89	20
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	7	11	77.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
<b>PED. SIGNAL</b>				
CONTROLLER	6	15	90.0	
MASTER CONTROLLER	1	150	150.0	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING =</b>		<b>368.0</b>		
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING =</b>		<b>973.0</b>		

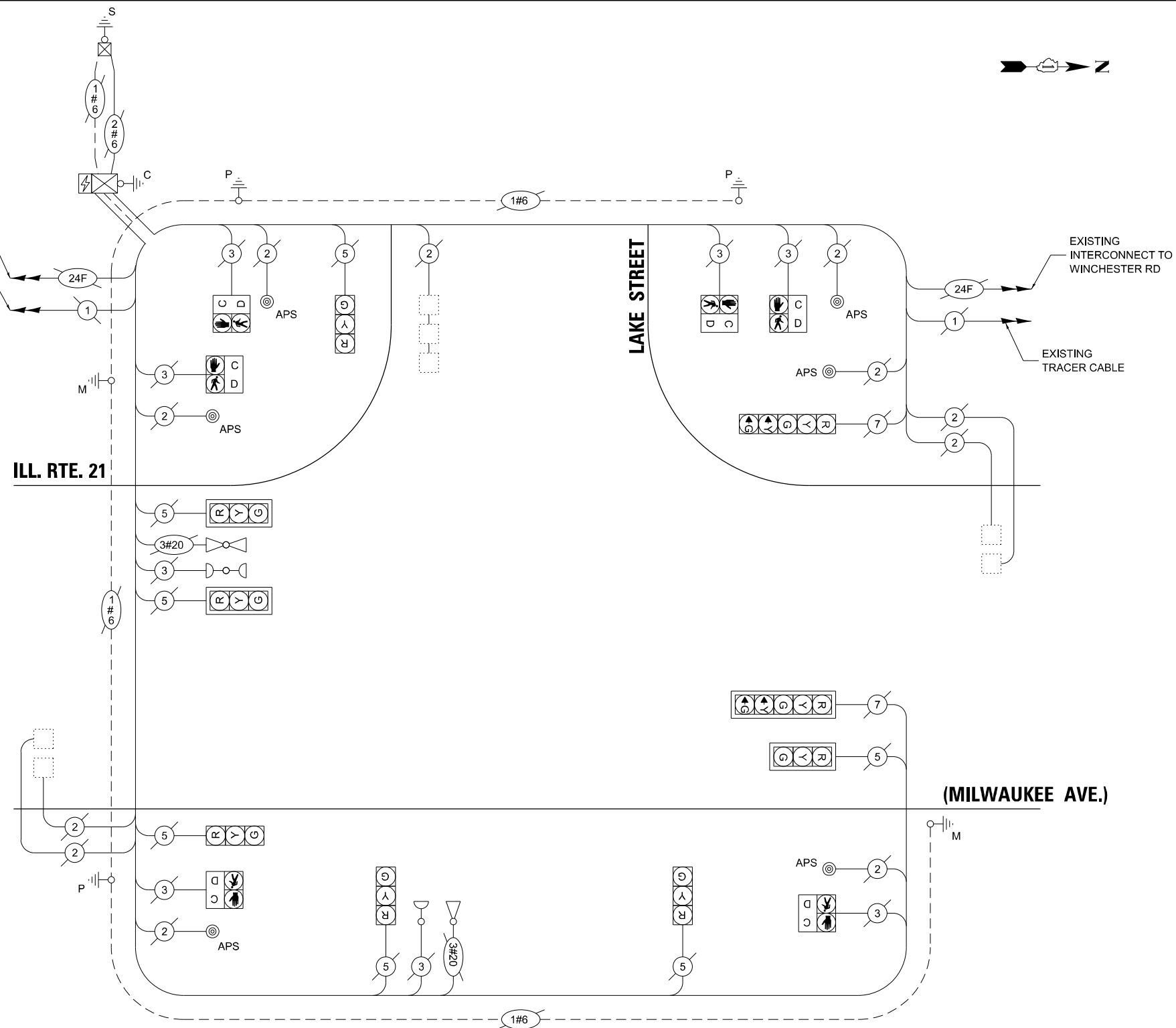
ENERGY COSTS TO:  
**VILLAGE OF LIBERTYVILLE**  
 118 W COOK AVE  
 LIBERTYVILLE, IL 60048

ENERGY SUPPLY: CONTACT: DANIEL MENDEZ  
 PHONE: 773-799-6111  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 0220462222

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN**  
(NOT TO SCALE)



MODEL: D:\proj\TS 21490 - 7 - 21 (Libertyville Ave) of Lake Street Signal Plan.dgn  
 FILE NAME: S:\proj\ts21490 - 7 - 21 (Libertyville Ave) of Lake Street Signal Plan.dgn  
 DATE: 7/31/2025 10:00:00 AM  
 USER: dforbes



USER NAME = dforbes  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 ILLINOIS ROUTE 21 (MILWAUKEE AVENUE) AND LAKE STREET**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	LAKE	89	21
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 21490  
 ECON 7  
 (LAKE CO - CENTRACS)**

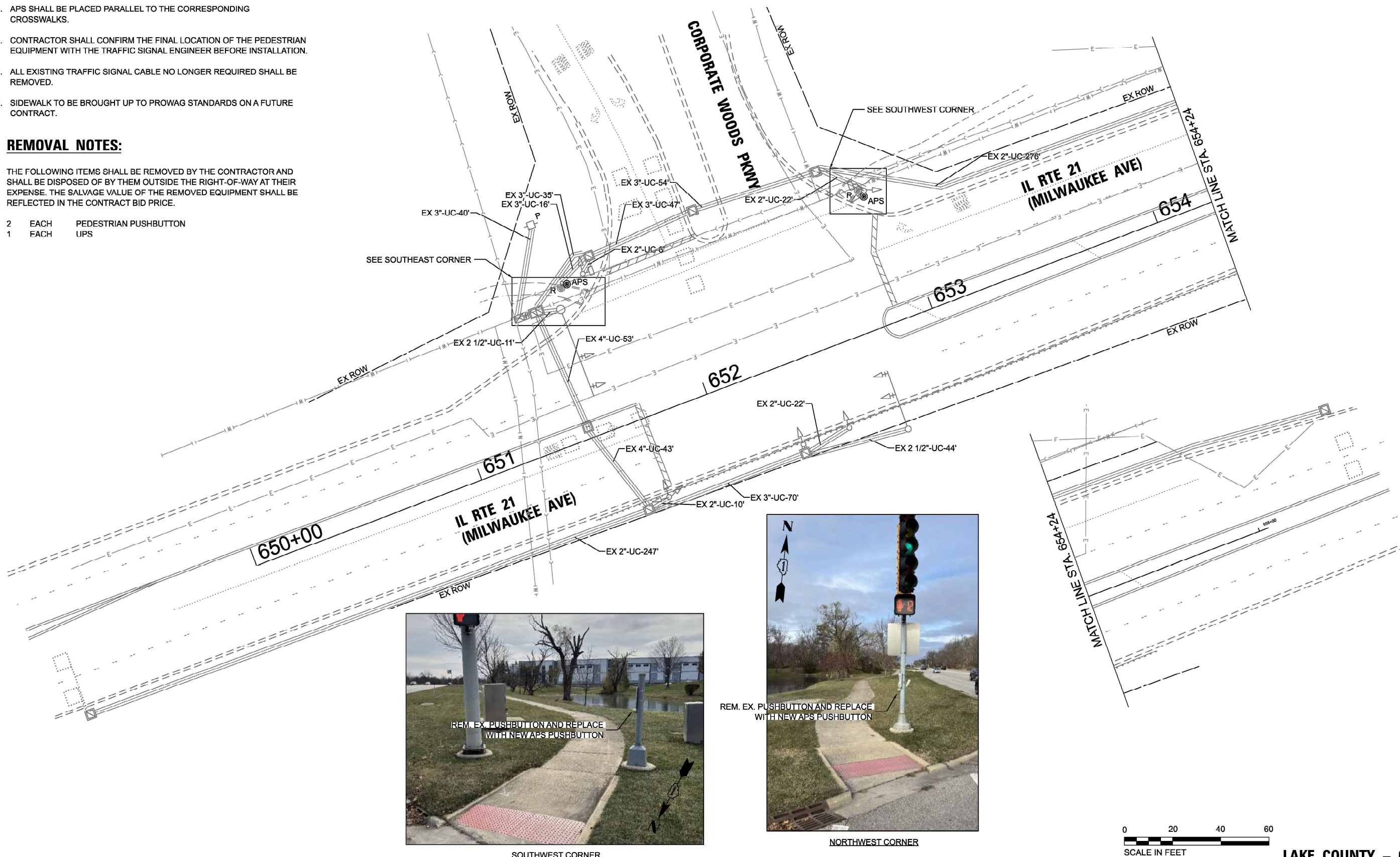
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

- |   |      |                       |
|---|------|-----------------------|
| 2 | EACH | PEDESTRIAN PUSHBUTTON |
| 1 | EACH | UPS                   |



MODEL: D:\proj\2110 - DOTD - Var Ph1 TES & Mgmt - TS1\Project\Work\CADD\CADD\_Sheets\03\_TS 21410 - IL 21 Milwaukee Ave. & Corporate Woods Pkwy-Signal Plan.dgn  
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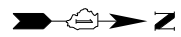
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PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

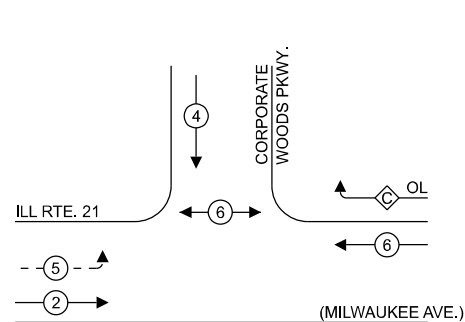
<b>TRAFFIC SIGNAL INSTALLATION PLAN</b> <b>ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT CORPORATE WOODS PKWY</b>	
SCALE: 1"=20'	SHEET 1 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	LAKE	89	22
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

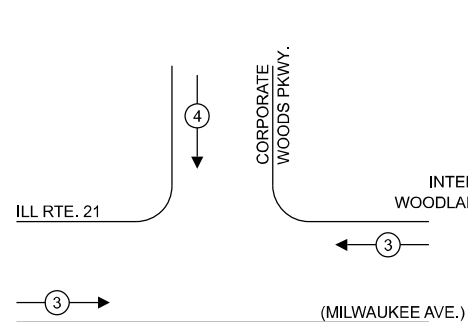
**TS 21410**  
**ECON 24**  
**LAKE COUNTY - CENTRACS**



**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 4

**NOTE:**

TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 6. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

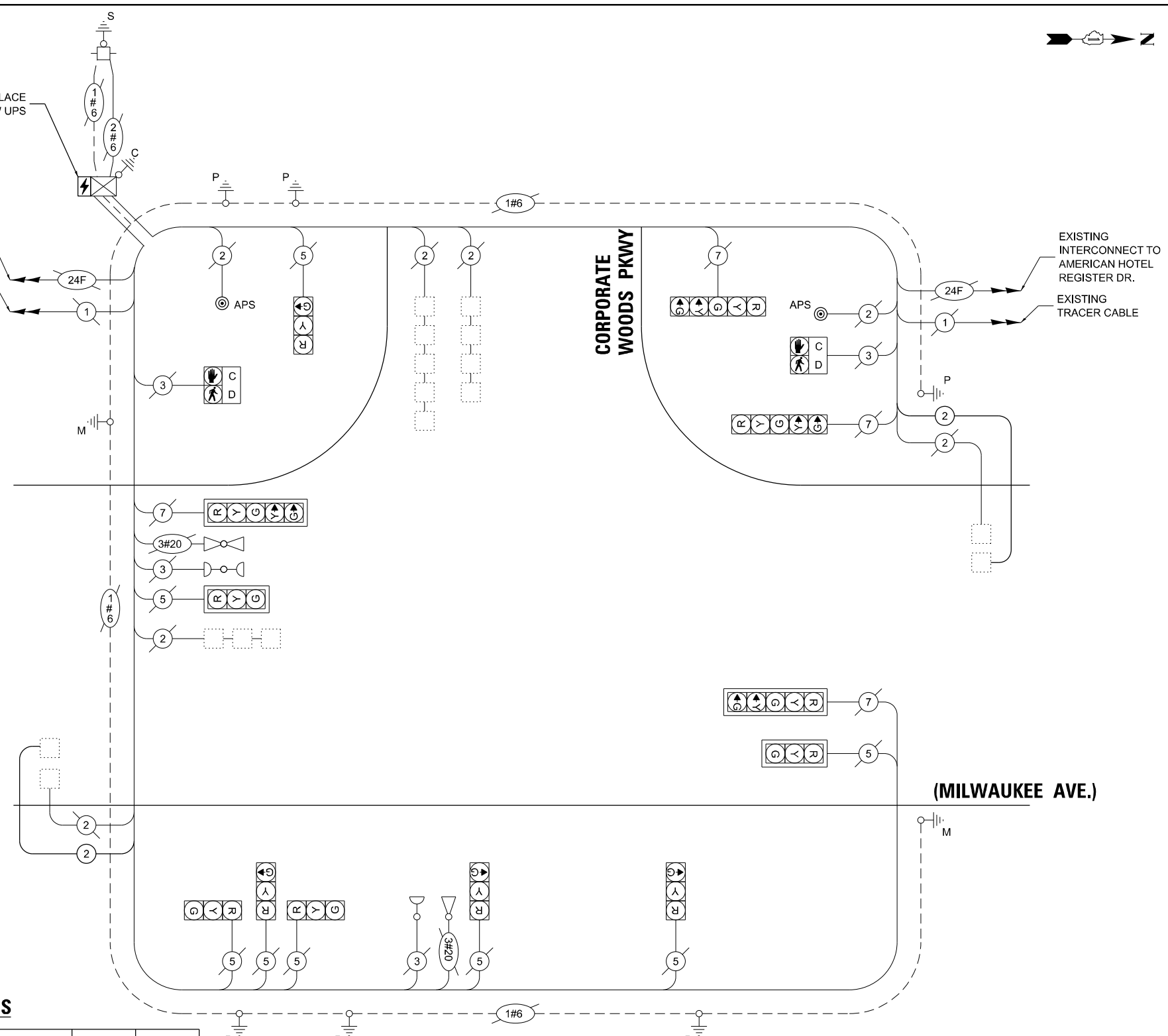
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	2	15	30.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING = 345.0</b>				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING = 950.0</b>				

ENERGY COSTS TO:  
**VILLAGE OF VERNON HILLS**  
 290 EVERGREEN DR  
 VERNON HILLS, IL 60061

ENERGY SUPPLY: CONTACT: DANIEL MENDEZ  
 PHONE: 733-799-6111  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 2211668000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	840
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY-UPS	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 ILLINOIS ROUTE 21 (MILWAUKEE AVE) AT CORPORATE WOODS PKWY

TS 21410  
 ECON 24  
 LAKE COUNTY – CENTRACS

MODEL: D:\proj\21410-24\21410-24.dwg  
 FILE NAME: S:\proj\21410-24\21410-24.dwg  
 PROJECT: TS 21410-24, 21 (Milwaukee Ave) at Corporate Woods Pkwy  
 SHEET: 2 OF 2  
 DATE: 7/31/2025



USER NAME = dlorion	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DB	REVISED -
	DATE - 07/31/2025	REVISED -

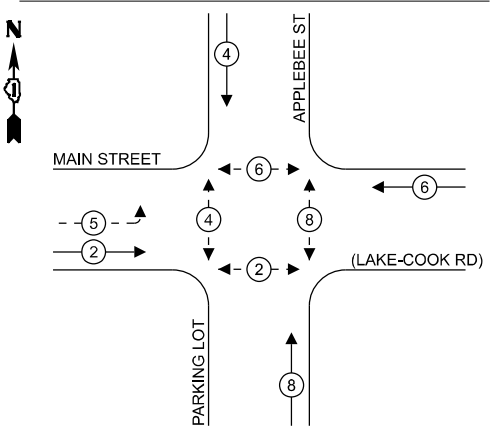
SCALE: NTS	SHEET 2 OF 2 SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	LAKE	89	23
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

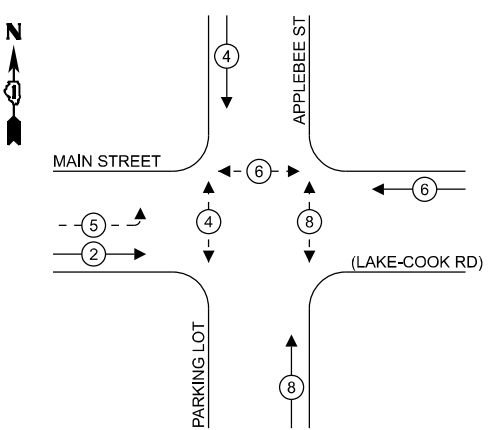




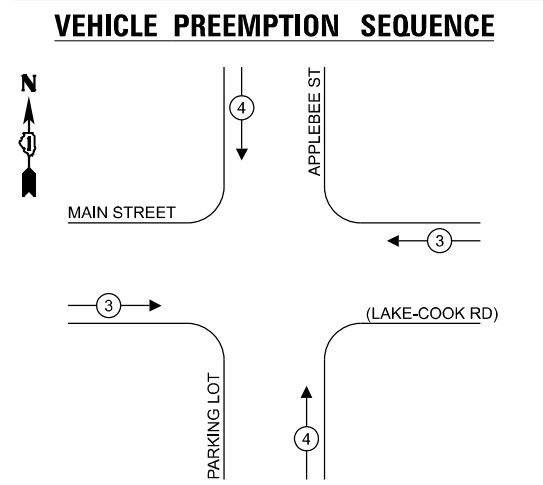
**PROPOSED CONTROLLER SEQUENCE**



**EXISTING CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASES 4 and 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

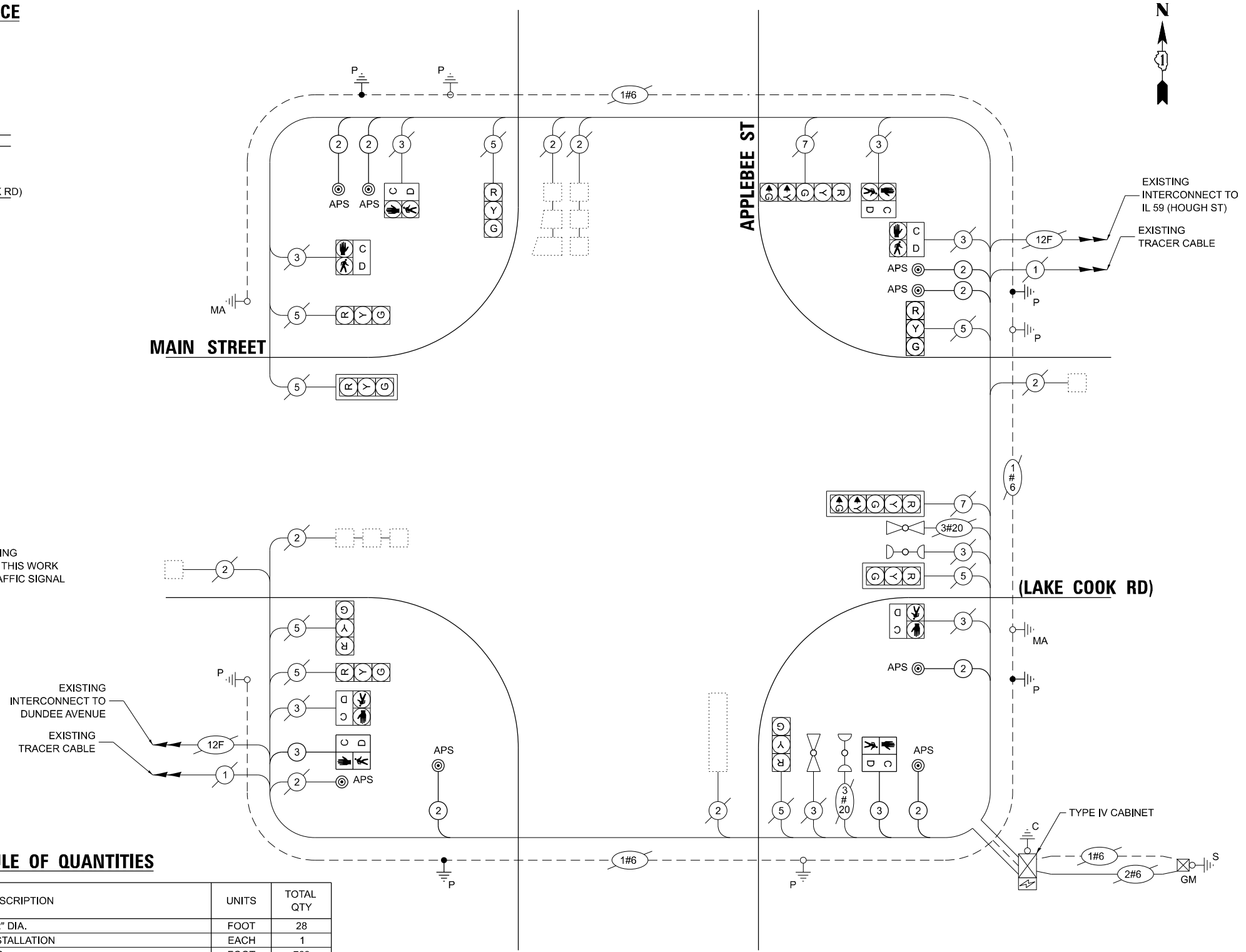
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	8	11	88.0
4 - SECTION	-	14	-
5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	8	15	120.0
MASTER CONTROLLER	1	150	150.0
UPS	-	100	-
DETECTION RADAR	1	25	25.0
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING = 409.0			
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING = 1,014.0			
ENERGY COSTS TO: VILLAGE OF BARRINGTON 200 S HOUGH ST BARRINGTON, IL 60010			
ENERGY SUPPLY: CONTACT: JAMES CAMPBELL PHONE: 630-940-6805 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: - 0581674000			

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	28
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	763
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	164
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	123
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	478
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	4
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**



MODEL: D:\chicago\2024\2024-07-31\2024-07-31\TS11282-1\LakeCookRd\MainSt\ApplebeeSt\LakeCookRd\ApplebeeCablePlan.dwg



USER NAME = dlorion  
PLOT SCALE = 40,000'"/in.  
PLOT DATE = 7/31/2025

DESIGNED - DLB  
DRAWN - JK  
CHECKED - DB  
DATE - 07/31/2025

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE  
MAIN STREET (LAKE COOK ROAD) AT APPLEBEE STREET**

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

F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
XXX 2024-964-TS COOK 89 25  
CONTRACT NO. 62W89  
ILLINOIS FED. AID PROJECT

**TS 11282  
EAGLE 1D  
LAKE CO - CENTRACS**

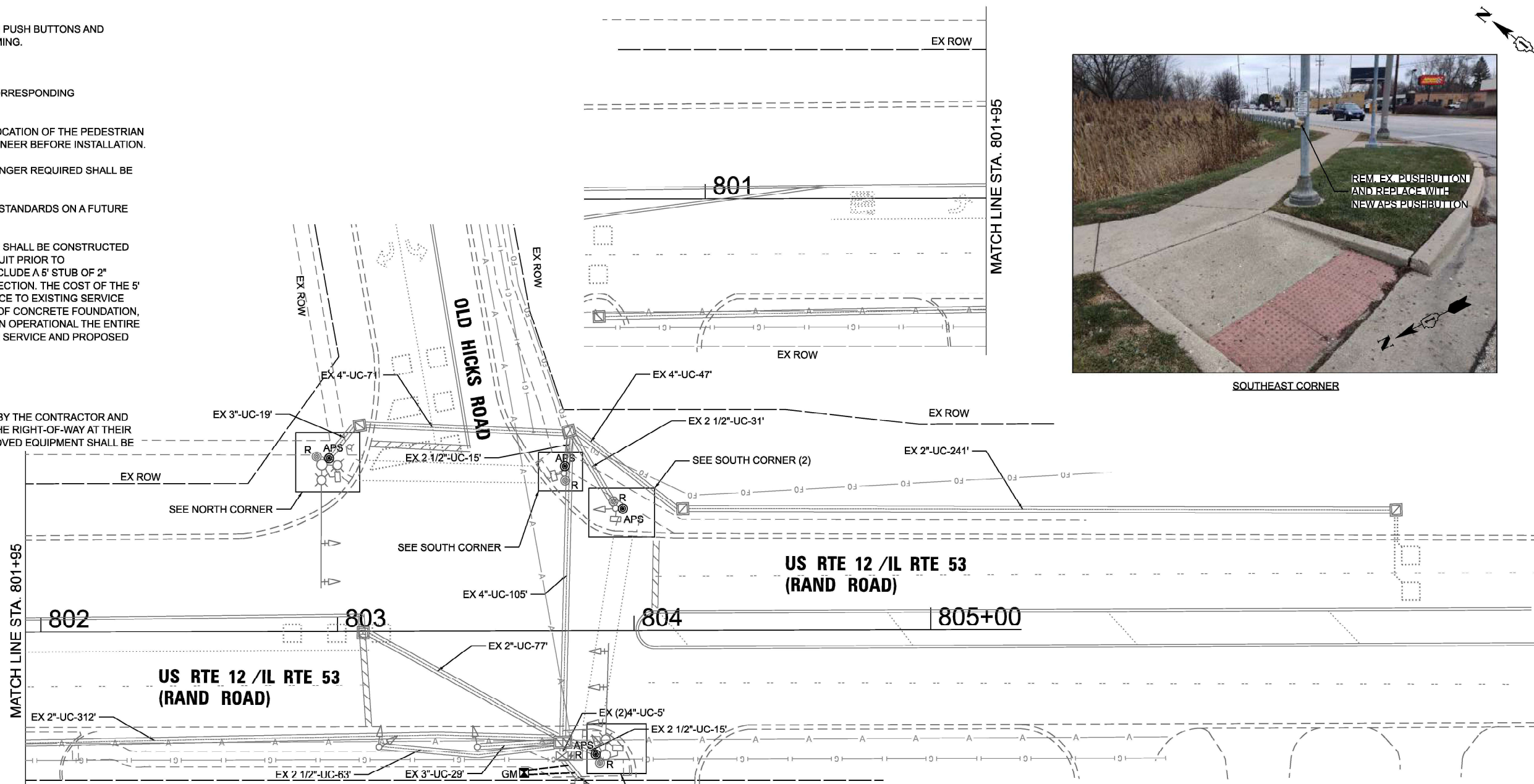
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 5' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**REMOVAL 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.

- 4 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH SERVICE INSTALLATION



SOUTHEAST CORNER



NORTHEAST CORNER



SOUTHWEST CORNER



SOUTHEAST CORNER (2)



TS 1160  
ECON 164

MODEL: D:\atlas\Projects\2116 - ICDT - Var Phil TES & Mgmt - TSP\Project\Work\CD\ICADD\_Sheet110\_TS 1160 - IS 12 at Old Hicks Rand02/09/2025.dwg P:\atlas\Signal\Plan.dwg

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40.000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

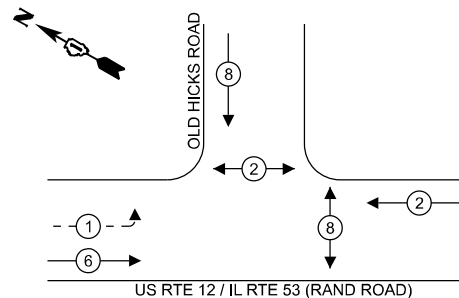
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
US ROUTE 12/IL ROUTE 53 (RAND ROAD) AT OLD HICKS ROAD

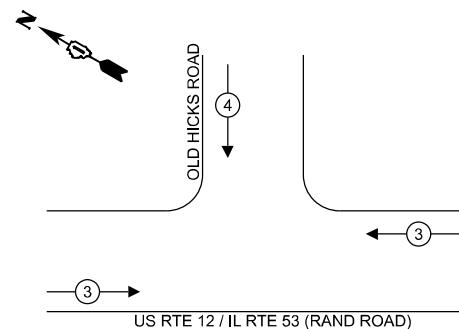
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	26
			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

**NOTE:**

TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

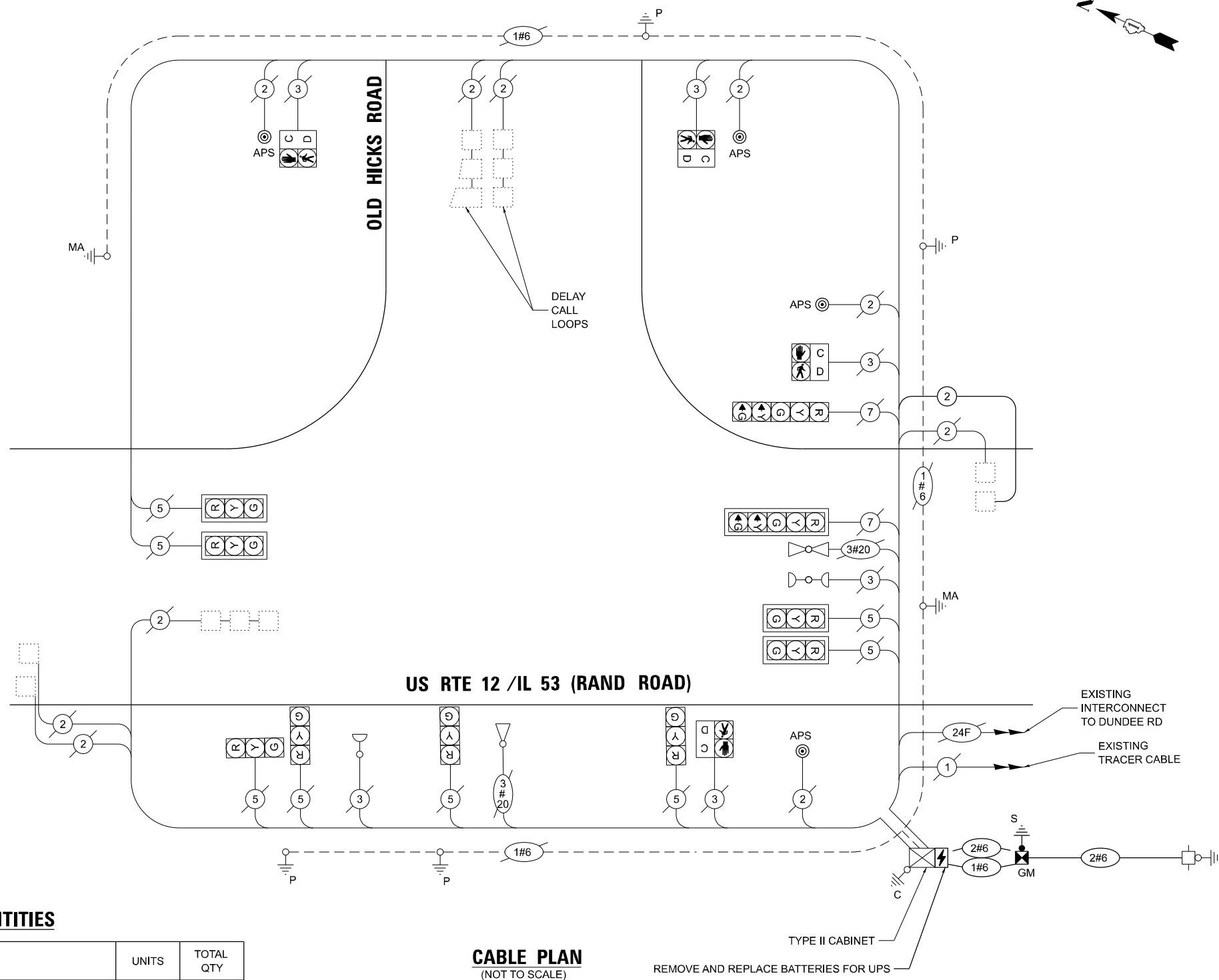
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	8	11
	4 - SECTION	-	14
	5 - SECTION	2	13
			26.0
<b>PROGRAMMABLE SIGNALS</b>			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
			-
<b>PED. SIGNAL</b>			
CONTROLLER	4	15	60.0
MASTER CONTROLLER	1	150	150.0
UPS	-	100	-
DETECTION	1	25	25.0
	RADAR	-	20
	VIDEO	-	20
			-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
			-
<b>TOTAL UPS SIZING = 349.0</b>			
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
			-
<b>TOTAL SERVICE WIRE SIZING = 954.0</b>			

ENERGY COSTS TO:  
**VILLAGE OF PALATINE**  
 200 E WOOD ST  
 PALATINE, IL 60067

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL  
 PHONE: 630-940-6805  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 6366886000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	439
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	42
CONCRETE FOUNDATION, TYPE A	FOOT	4
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

REMOVE AND REPLACE BATTERIES FOR UPS



USER NAME = dloranes  
 PLOT SCALE = 40,000' / 1" /  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 US ROUTE 12/IL ROUTE 53 (RAND ROAD) AT OLD HICKS ROAD**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	27
CONTRACT NO. 62W89				

**TS 1160  
 ECON 164**

ILLINOIS FED. AID PROJECT

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL NOTES:**

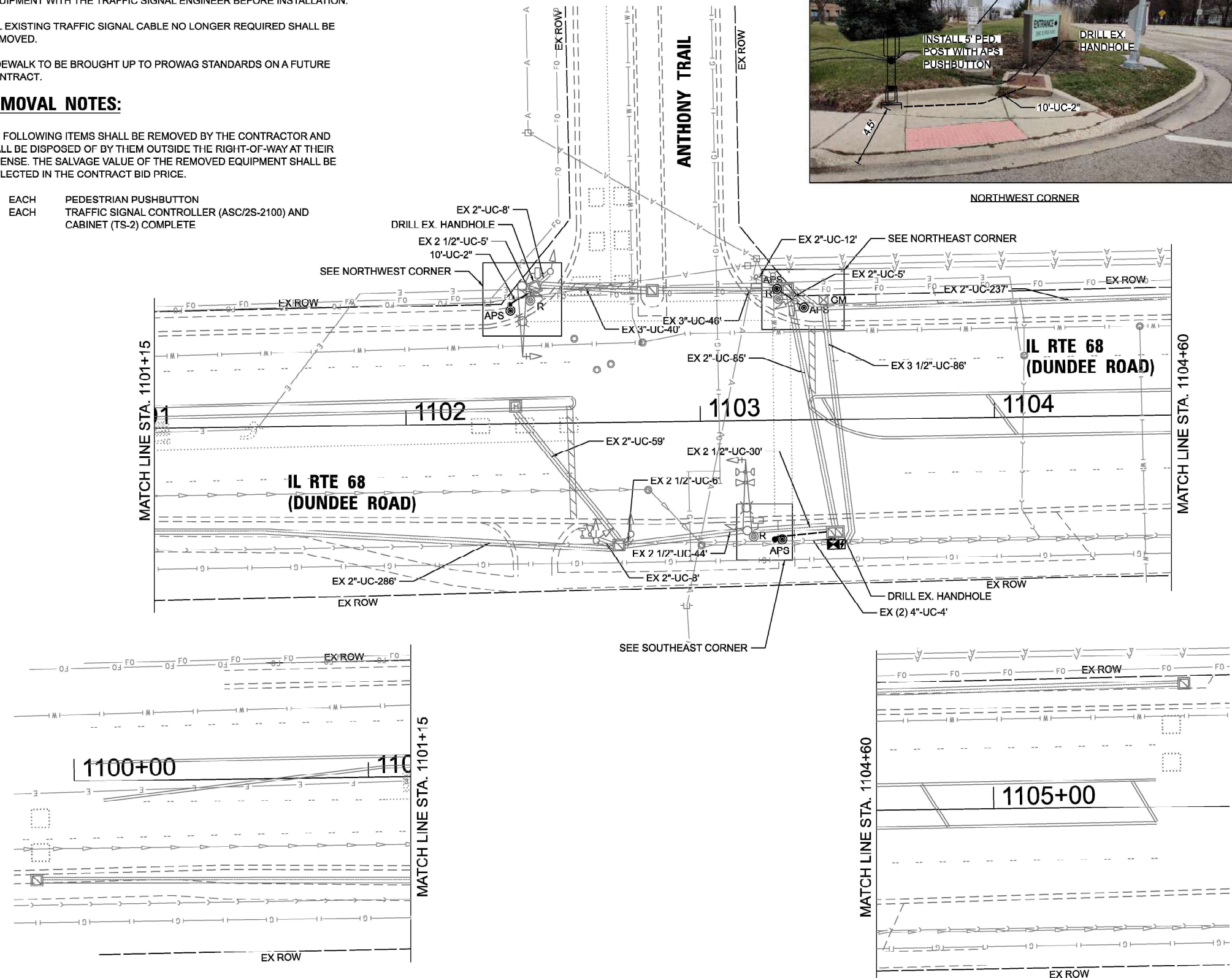
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH TRAFFIC SIGNAL CONTROLLER (ASC/2S-2100) AND CABINET (TS-2) COMPLETE

**REMOVAL AND RELOCATION NOTES:**

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

- 1 EACH LIGHT DETECTOR AMPLIFIER



NORTHWEST CORNER



NORTHEAST CORNER



SOUTHEAST CORNER



TS 3137  
ECON 86

MODEL: D:\proj\2116 - ICDT - Var Phil TES & Mgmt - TSP\Project Work\CD\CD\CADD\_Sheets\11\_TS 3137 - L 88 (Dundee Rd) at Anthony Trail\TES-117-IL 88 at Anthony Trail\Signal Plan.dwg



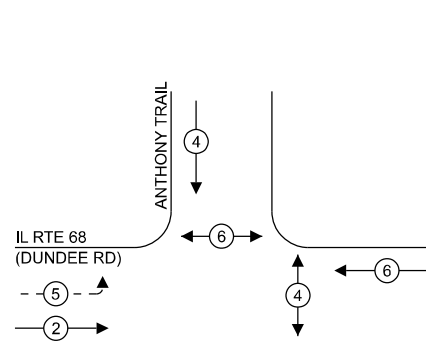
USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DB	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
ANTHONY TRAIL AND ILLINOIS ROUTE 68 (DUNDEE ROAD)  
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	28
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

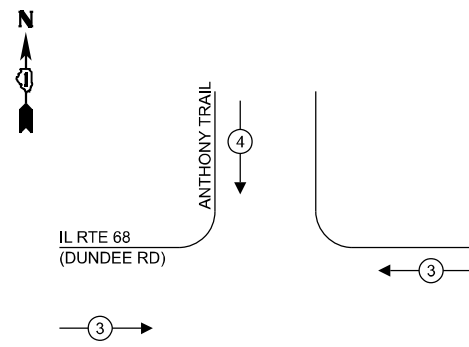
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

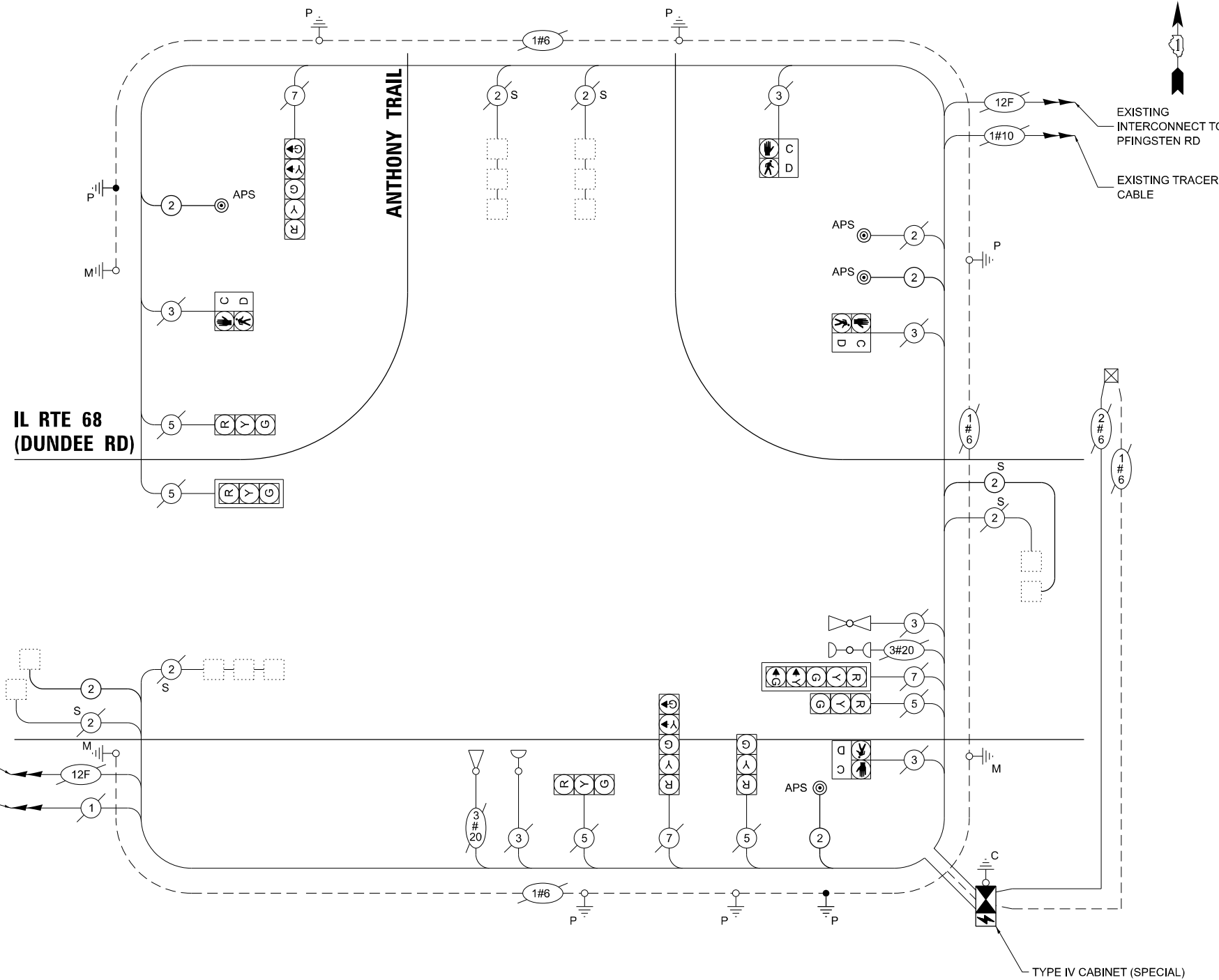
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	5	11	55.0
	4 - SECTION	-	14	-
	5 - SECTION	3	13	39.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	4	15	60.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING =</b>		<b>329.0</b>		
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING =</b>		<b>934.0</b>		

ENERGY COSTS TO:  
**VILLAGE OF NORTHBROOK**  
 1225 CEDAR LANE  
 NORTHBROOK, IL 60062

ENERGY SUPPLY: CONTACT: AXL DAVIS  
 PHONE: 773-231-2969  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 5090906000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	31
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	405
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	721
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	79
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	264
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES IL RTE 68 (DUNDEE ROAD) AT ANTHONY TRAIL**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	29
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 3137  
ECON 86**

MODEL: D:\proj\11-2024\11-2024-001\11-2024-001-001.dwg, Ver: P111 TES & Mym - TSP\Project\Work\CADD\CADD\_Sheets\11-2024-001-IL-68 (Dundee Rd) at Anthony Trail\TS3137-IL-68 at Anthony Trail.dwg, Author: TCS\Chad\_Plan.dwg

**ATLAS**  
 ATLAS TECHNICAL CONSULTANTS, LLC  
 100 S. WACKER DRIVE, SUITE 400  
 CHICAGO, IL 60606

USER NAME = dlorines  
 PLOT SCALE = 40,000"/1 in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**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.

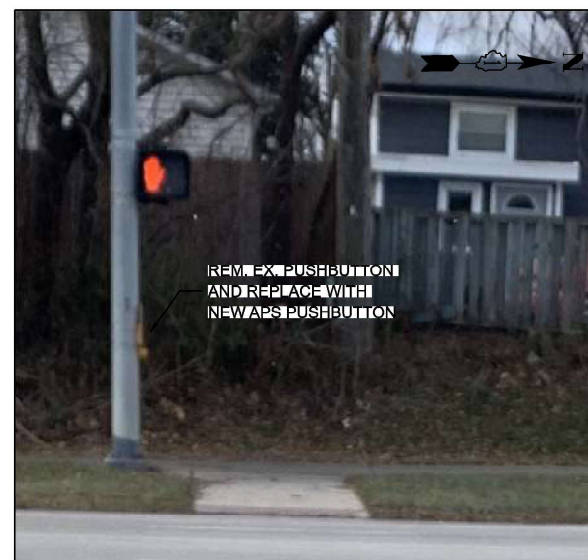
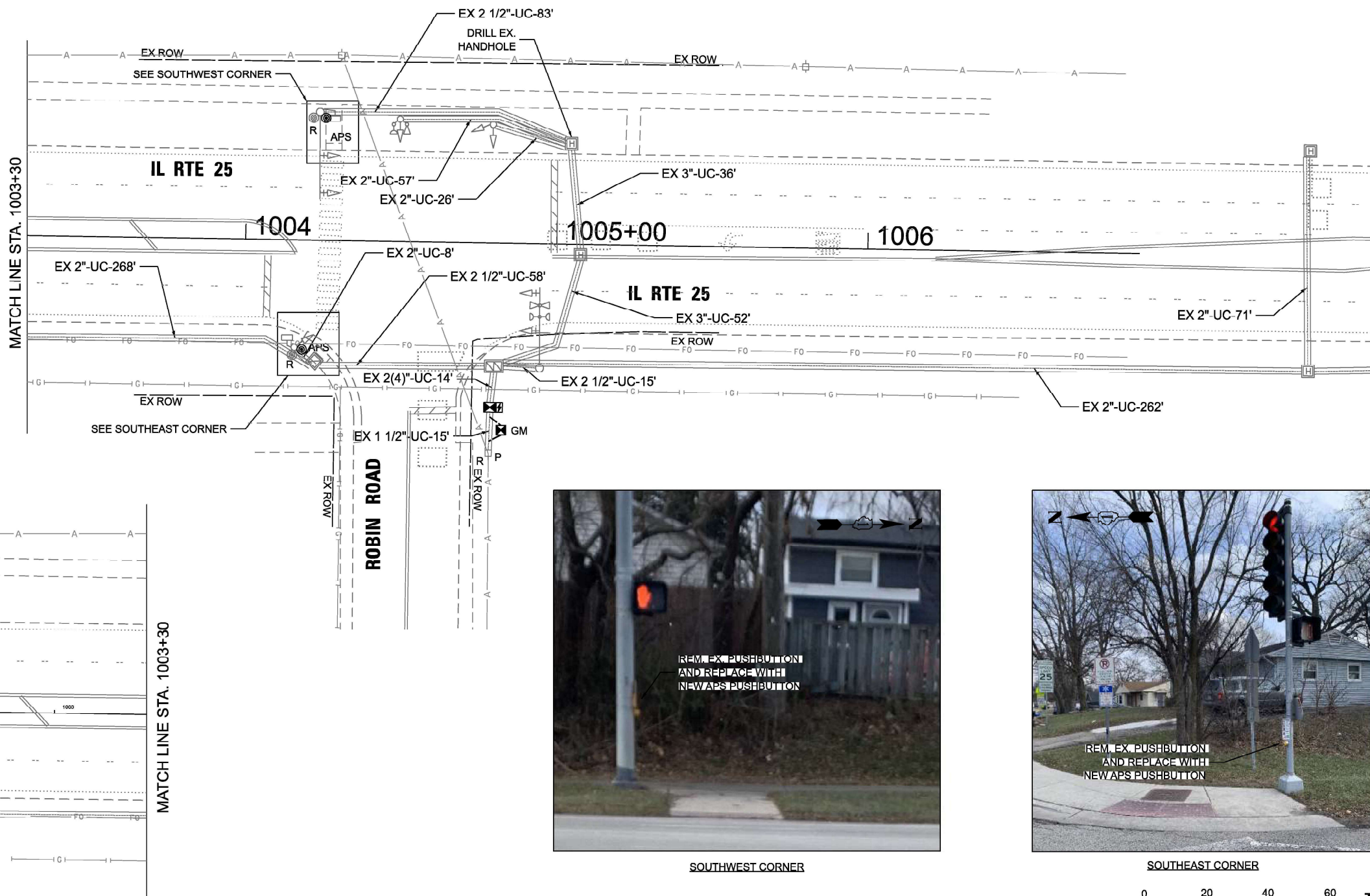
- 2 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH TRAFFIC SIGNAL CONTROLLER (EPAC 300 M40) AND CABINET (TS-2) COMPLETE

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

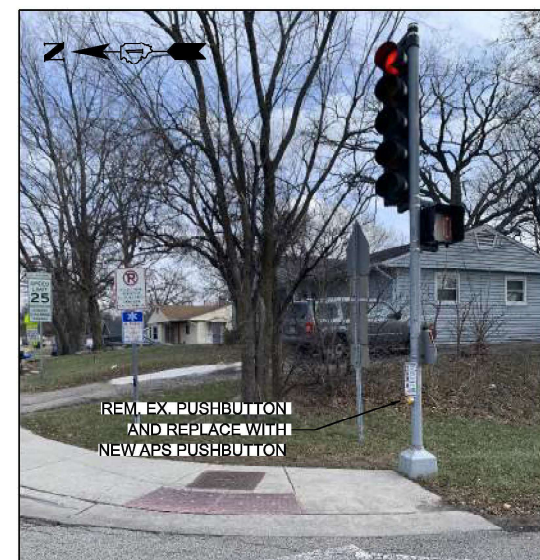
- 1 EACH SERVICE METER

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

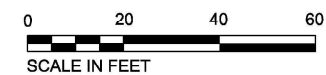
- 1 EACH LIGHT DETECTOR AMPLIFIER



SOUTHWEST CORNER



SOUTHEAST CORNER



TS 4325  
EAGLE 5G

MODEL: D:\atlas\... FILE NAME: S:\projects\2116 - DCTD - Var Phil TES & Mgmt - TSP\Project Work\CADD\CADD\_Sheets\12 - TS 4325 - L 26 at Robin Rd\20240619-19-L 26 at Robin-Signal Plan.dgn



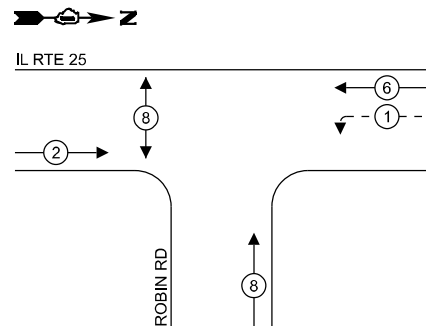
USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

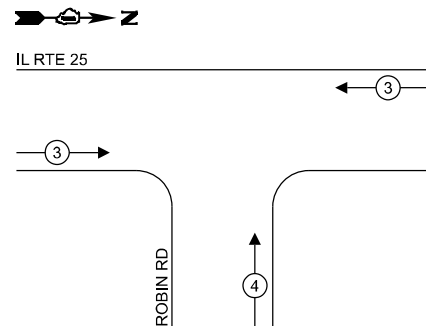
TRAFFIC SIGNAL INSTALLATION PLAN		
IL ROUTE 25 AT ROBIN ROAD		
SCALE: 1"=20'	SHEET 1 OF 2 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	KANE	89	30
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE EAGLE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

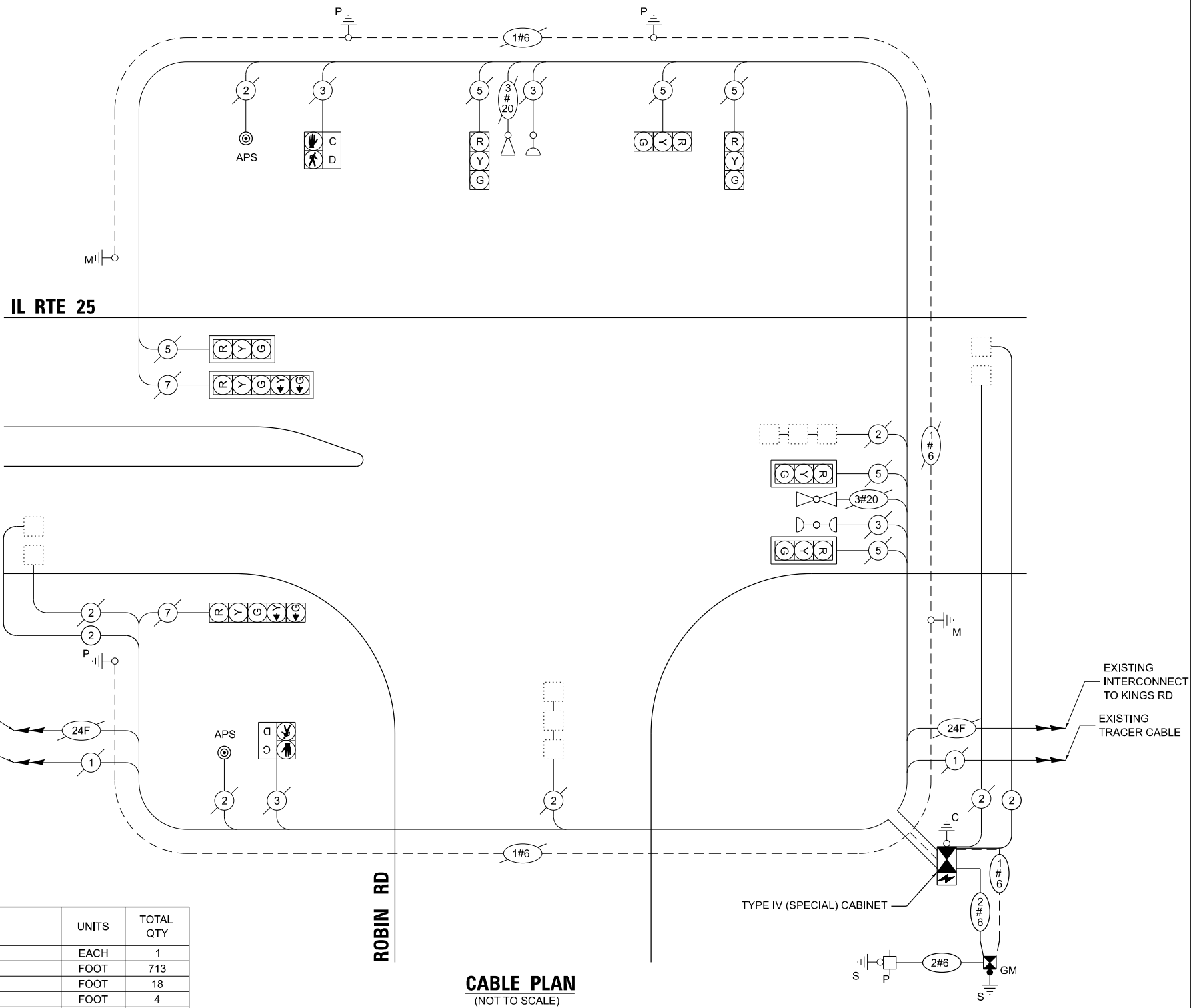
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	6	11	66.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
<b>PED. SIGNAL</b>				
CONTROLLER	2	15	30.0	
MASTER CONTROLLER	1	150	150.0	
UPS	-	100	-	
DETECTION	1	25	25.0	
	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING = 297.0</b>				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING = 902.0</b>				

ENERGY COSTS TO:  
**VILLAGE OF CARPENTERSVILLE**  
 1200 L.W. BESINGER DR  
 CARPENTERSVILLE, IL 60110

ENERGY SUPPLY: CONTACT: CASSIE EVANS  
 PHONE: 773-241-0741  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 4285848000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	713
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	18
CONCRETE FOUNDATION, TYPE A	FOOT	4
INDUCTIVE LOOP DETECTOR	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

MODEL: D:\ch\1  
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USER NAME = dloriones  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
 IL RTE 25 AT ROBIN RD**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	31

CONTRACT NO. 62W89  
 ILLINOIS FED. AID PROJECT

**TS 4325  
 EAGLE 5G**

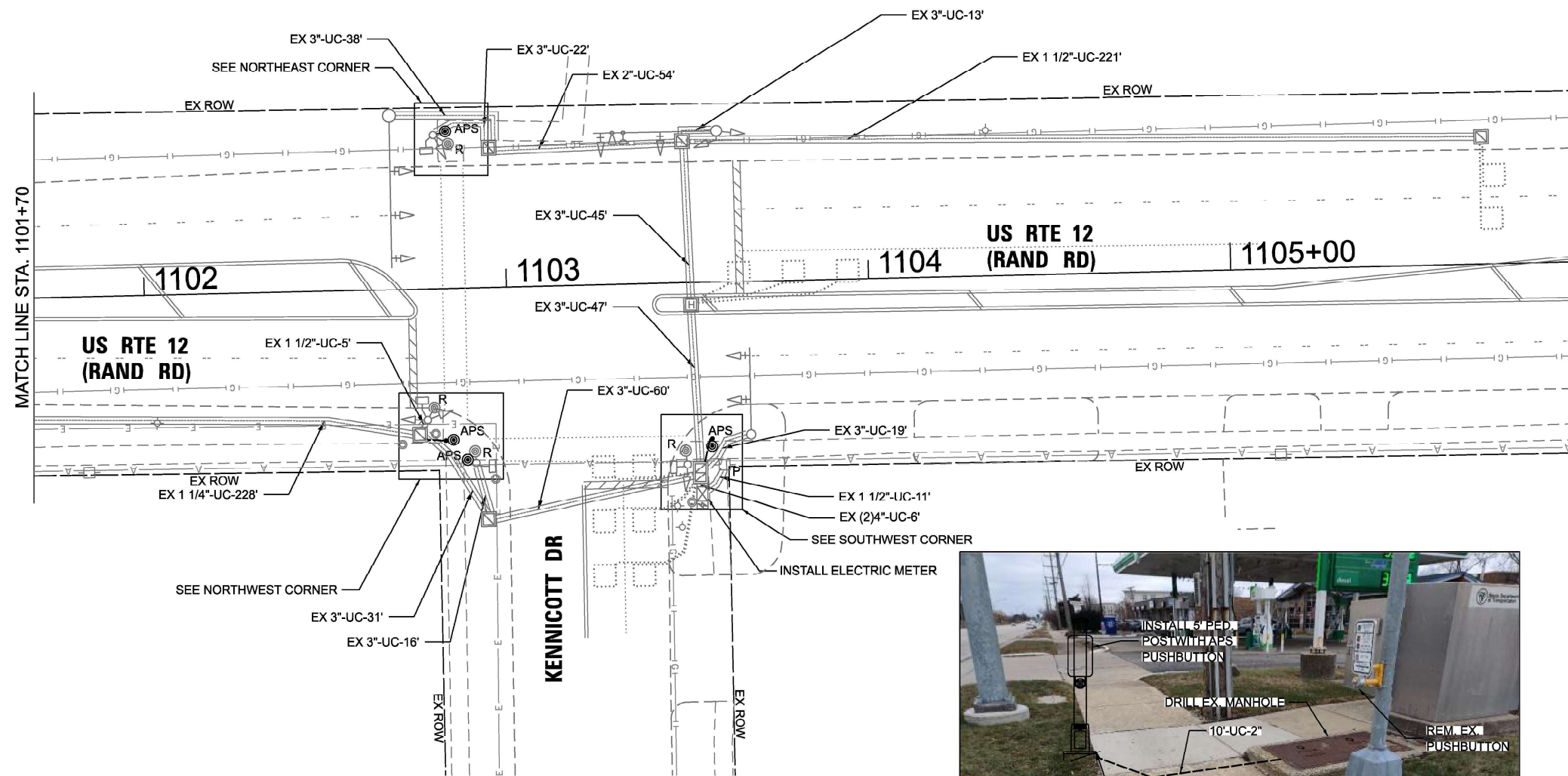
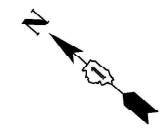
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

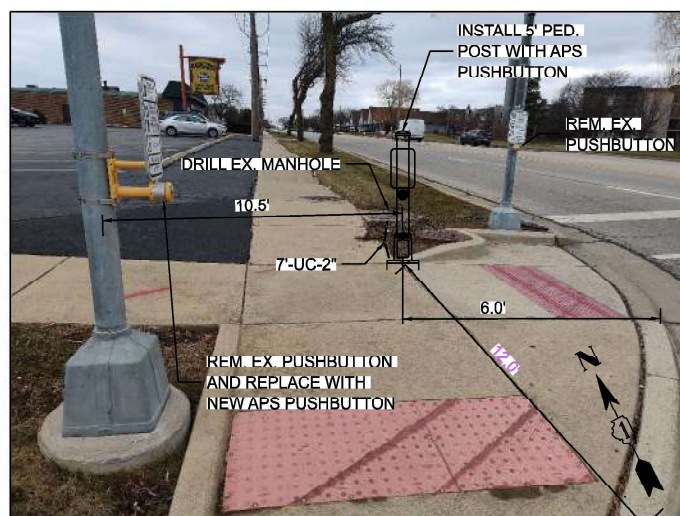
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|---|------|-------------------------|
| 4 | EACH | PEDESTRIAN PUSHBUTTON   |
| 1 | EACH | CONTROLLER (ASC 2-2100) |



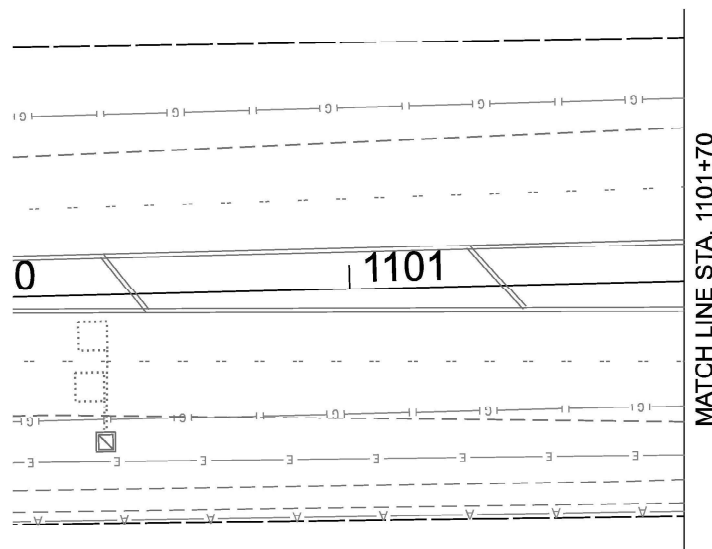
NORTHEAST CORNER



SOUTHWEST CORNER



NORTHWEST CORNER



**TS 405  
ECON 164**

MODEL: D:\atlas\Projects\2025\DOTD - Var Phil TES & Mgmt - TSP\Project\Work\CD\CDADD\_Sheet13\_TS 405\_US 12 (Rand Rd) at Kennicott\CDADD\_Sheet13\_US 12 at Kennicott\_Signal Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

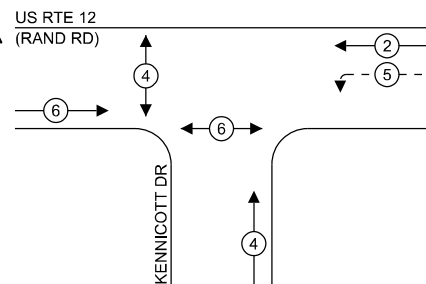
**TRAFFIC SIGNAL INSTALLATION PLAN  
US ROUTE 12 (RAND RD) AT KENNICOTT DR**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	32
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				



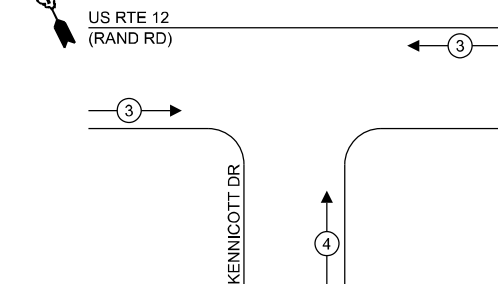
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	11	121.0
	4 - SECTION	-	-
	5 - SECTION	2	26.0
<b>PROGRAMMABLE SIGNALS</b>			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
<b>PED. SIGNAL</b>			
CONTROLLER	4	15	60.0
MASTER CONTROLLER	1	150	150.0
UPS	-	100	-
DETECTION	1	25	25.0
	RADAR	-	20
	VIDEO	-	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING =</b>		<b>382.0</b>	
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING =</b>		<b>987.0</b>	

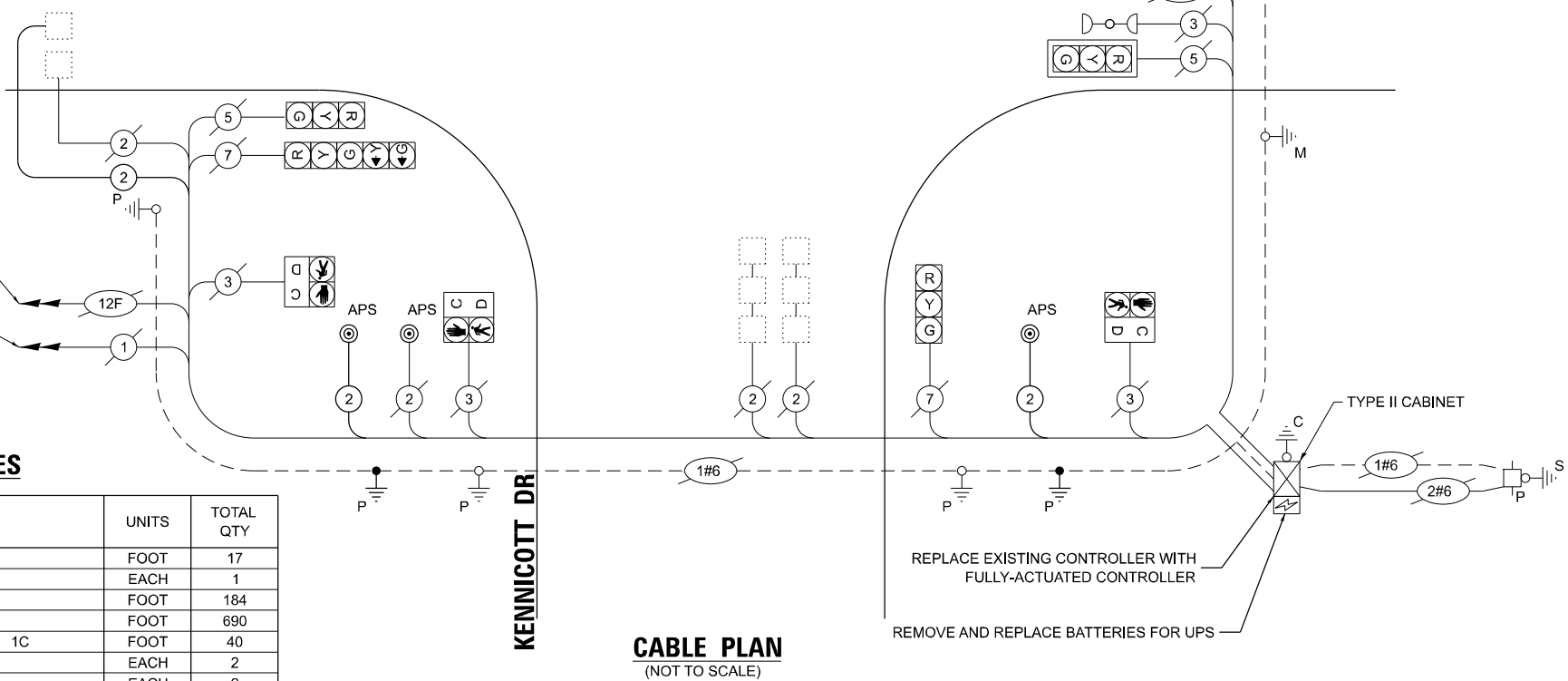
ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 W CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL  
 PHONE: 630-940-6805  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 7016200461

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	17
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	184
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	690
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	154
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ELECTRIC METER	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**US RTE 12 (RAND RD)**



**CABLE PLAN**  
(NOT TO SCALE)

MODEL: D:\proj\11-2024\11-2024-001\11-2024-001-001.dwg  
 FILE NAME: S:\proj\11-2024\11-2024-001\11-2024-001-001.dwg  
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USER NAME = dbriones  
 PLOT SCALE = 40,000" / 1"  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
 US RTE 12 (RAND RD) AT KENNICOTT DR**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	33
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 405  
 ECON 164**

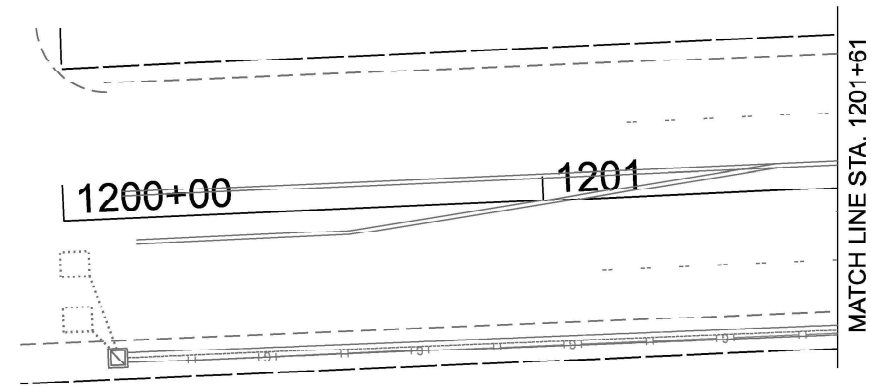
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

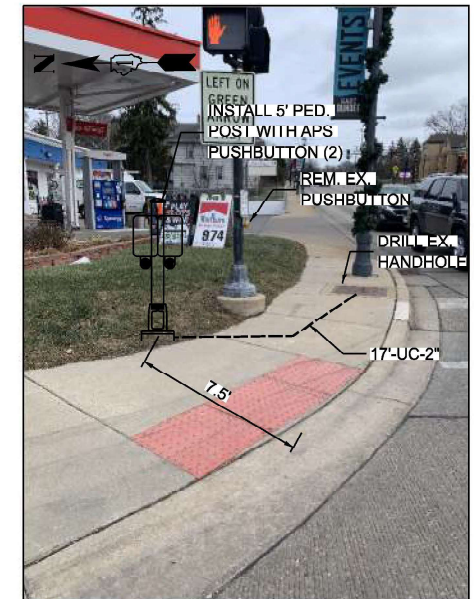
**REMOVAL NOTES:**

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.

- 6 EACH PEDESTRIAN PUSHBUTTON



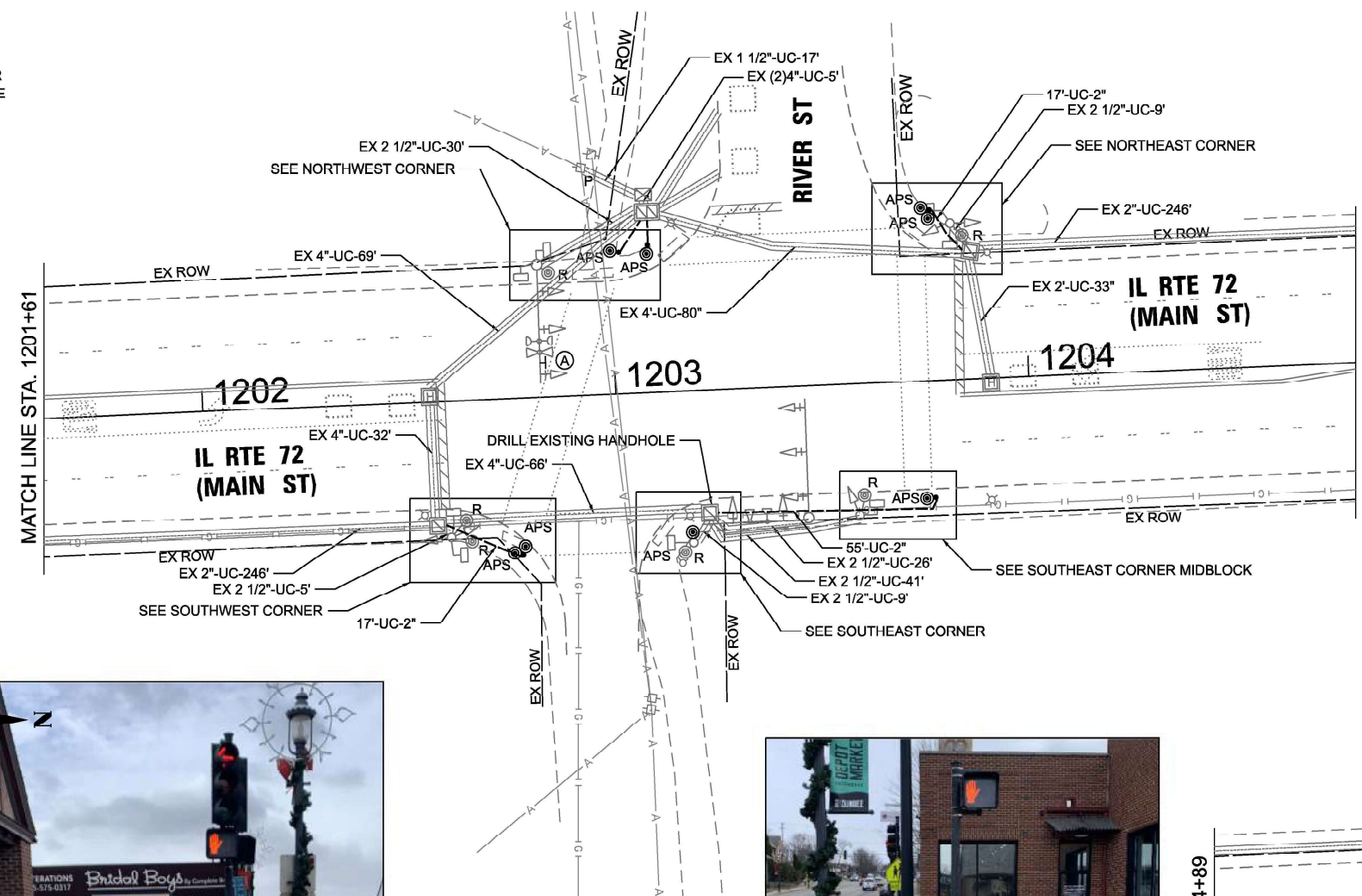
(A) INSTALL W25-2 SIGN "ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN"



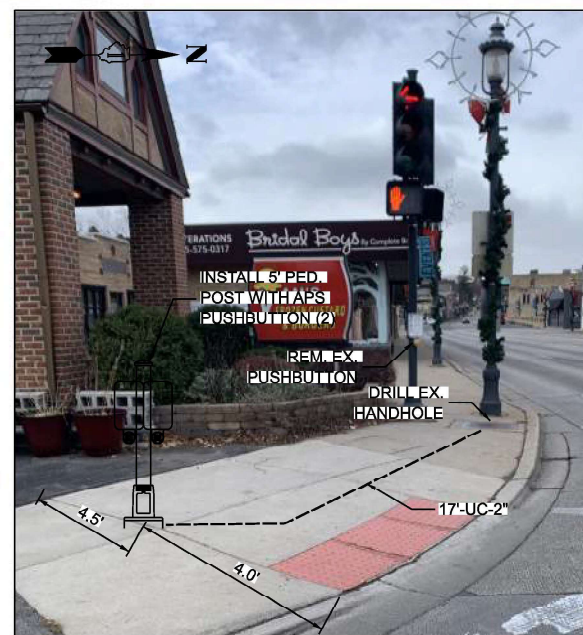
NORTHEAST CORNER



NORTHWEST CORNER



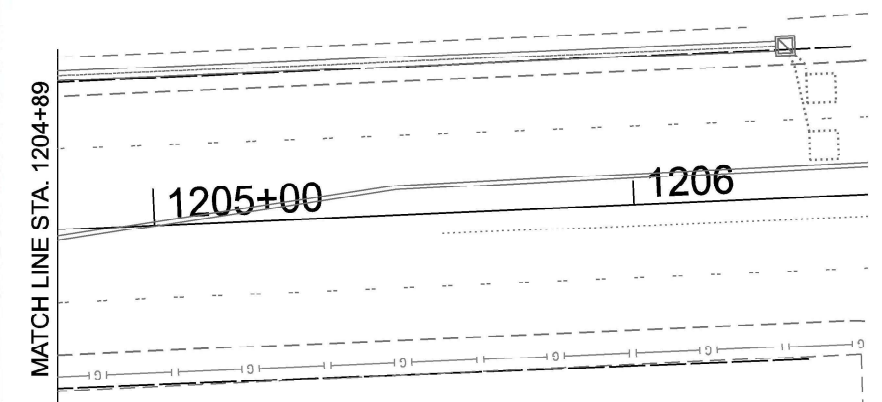
SOUTHEAST CORNER MIDBLOCK



SOUTHWEST CORNER



SOUTHEAST CORNER



TS 885  
EAGLE 2A

MODEL: D:\atlas\Projects\2116 - DOTD - Var Phil TES & Mgmt - TSP\Project Work\CADD\CADD\_Sheets\14 - TS 885 - IL 72 at River Street\Signal Plans\sp



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DB	REVISED -
	DATE - 07/31/2025	REVISED -

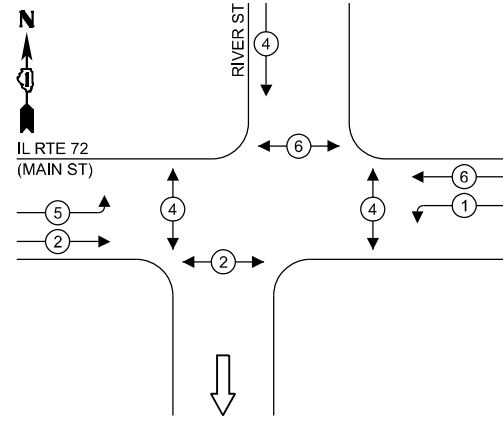
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 72 AT RIVER STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	KANE	89	34
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

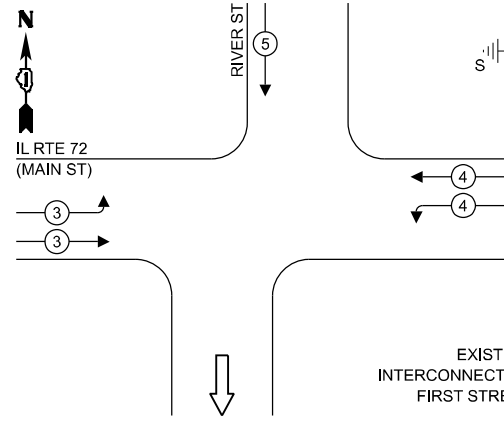
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. PHASE 1 LEFT TURN LEADS. PHASE 5 LEFT TURN LAGS.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	13	11	143.0
	4 - SECTION	-	14	-
	5 - SECTION	-	13	-
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	8	15	120.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 438.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 1,043.0				

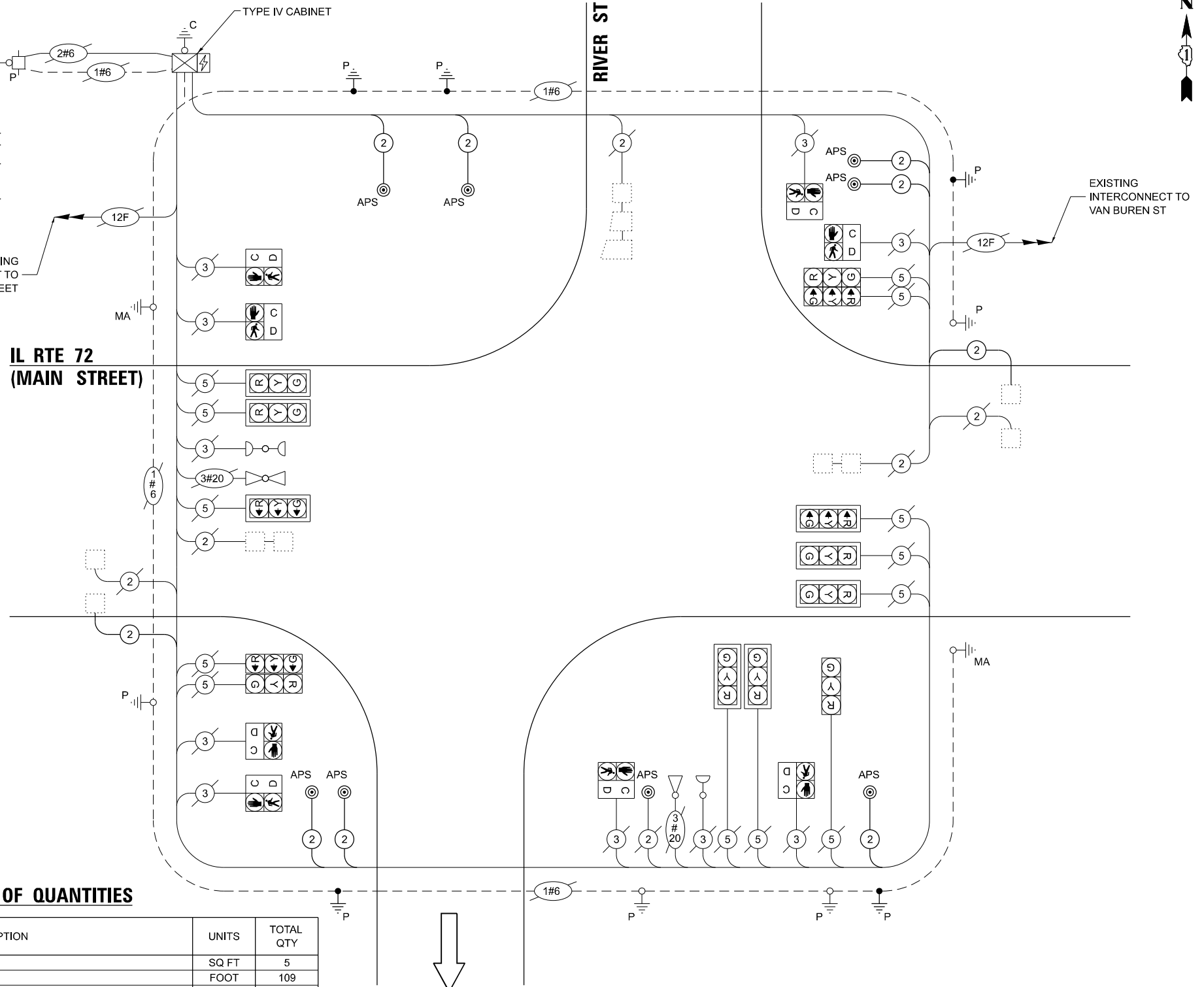
ENERGY COSTS TO:  
**VILLAGE OF EAST DUNDEE**  
 120 BARRINGTON AVE  
 EAST DUNDEE, IL 60118

ENERGY SUPPLY: CONTACT: CASSIE EVANS  
 PHONE: 773-241-0741  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 1858231222

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL - TYPE 1	SQ FT	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	109
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	944
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	745
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	172
DRILL EXISTING HANDHOLE	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	542
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	5
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	5
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**



**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
 IL ROUTE 72 (MAIN STREET) AT RIVER STREET**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	KANE	89	35
CONTRACT NO. 62W89				

ILLINOIS FED. AID PROJECT

MODEL: D:\proj\...  
 FILE NAME: S:\proj\...  
 PROJECT: TS 885 - IL 72 at River St  
 SHEET: 2 of 2  
 DATE: 7/31/2025

**ATLAS**  
 ATLAS TECHNICAL CONSULTANTS, LLC  
 100 S. WACKER DRIVE, SUITE 400  
 CHICAGO, IL 60606

USER NAME = dbriones  
 PLOT SCALE = 40,000"/1 in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**TS 885  
 EAGLE 2A**

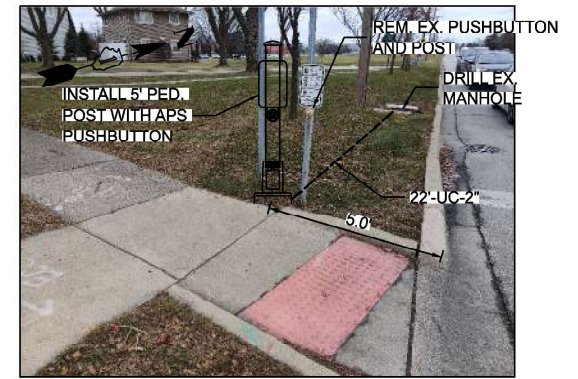
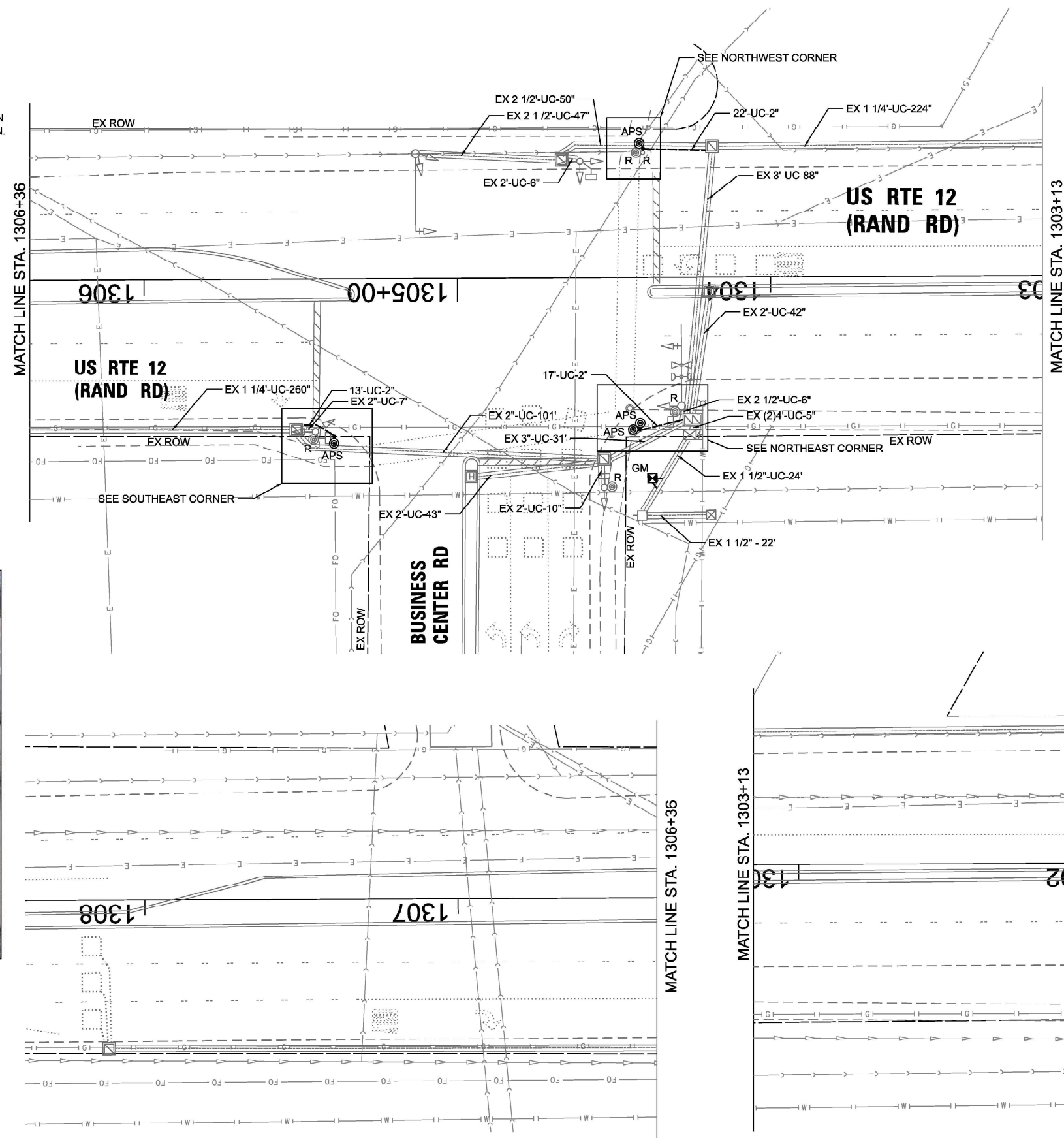
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**REMOVAL 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.

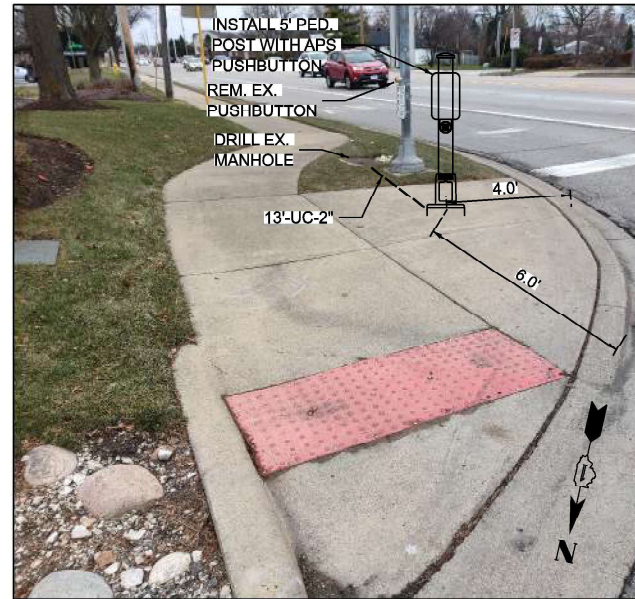
- |   |      |                       |
|---|------|-----------------------|
| 4 | EACH | PEDESTRIAN PUSHBUTTON |
| 1 | EACH | CONTROLLER            |
| 1 | EACH | SIGNAL POST           |



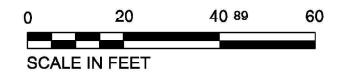
NORTHWEST CORNER



NORTHEAST CORNER



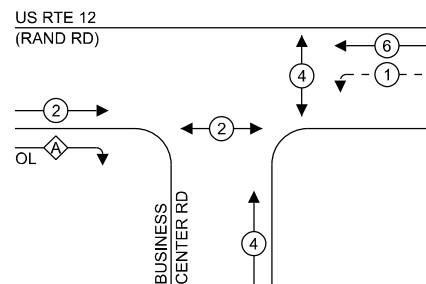
SOUTHEAST CORNER



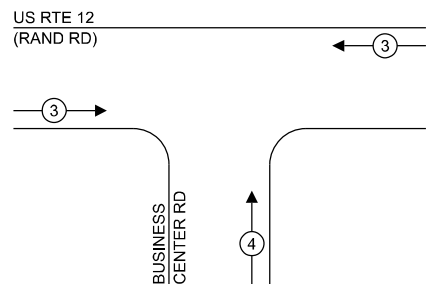
TS 9645

MODEL: D:\atlas\Projects\2024\07\DOTD - Var Phil TES & Mgmt - TSP\Project Work\CAD\CADD\_Sheets\15\_TS 9645 - US 12 Rand Rd at Business Center Drive\15-01-25-12 at Business Center Signal Plan.dgn

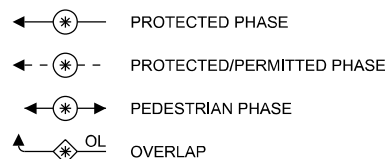
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 4

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
- THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

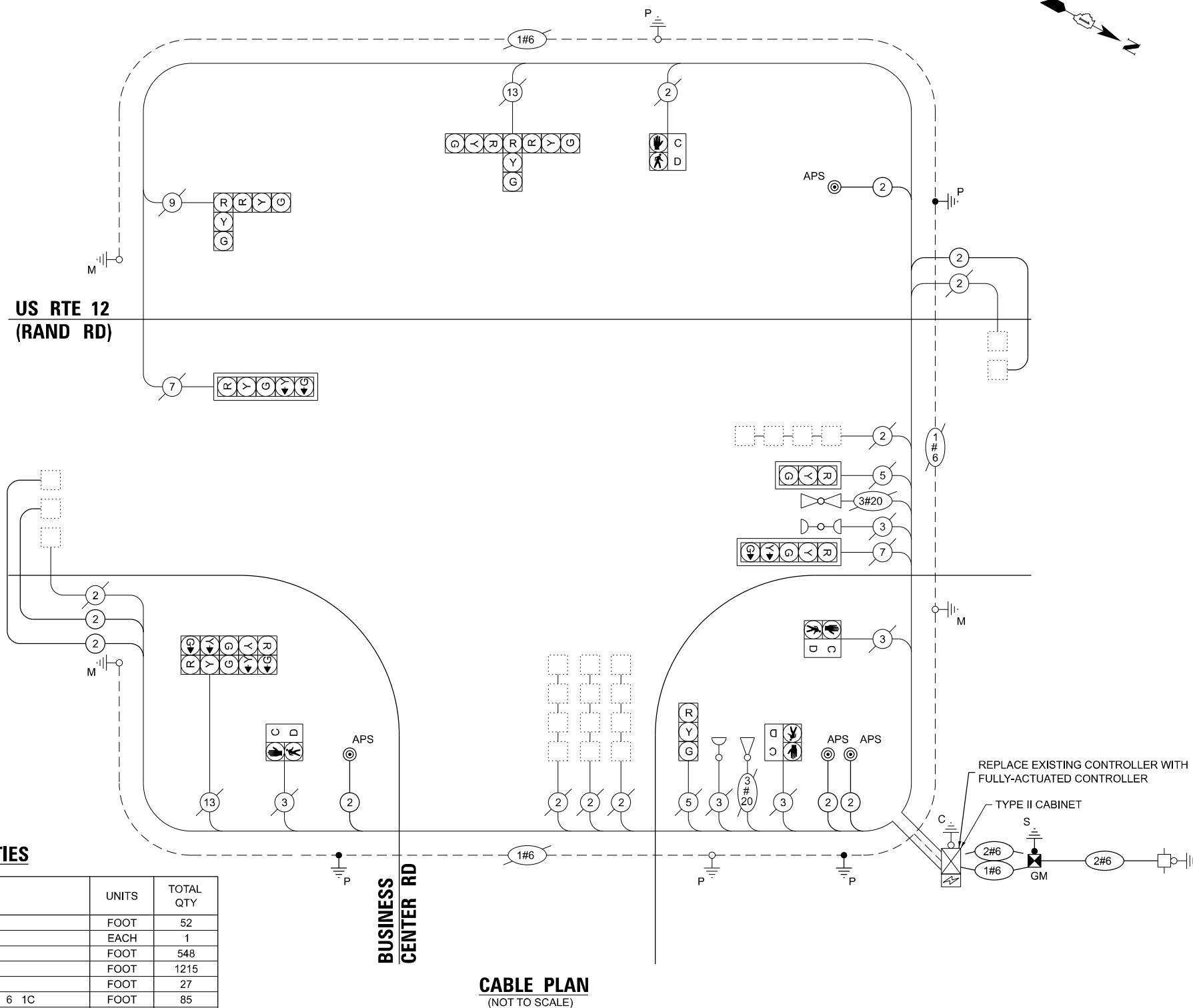
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	7	11
	4 - SECTION	-	14
	5 - SECTION	4	13
PROGRAMMABLE SIGNALS			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
PED. SIGNAL			
CONTROLLER	4	15	60.0
MASTER CONTROLLER	1	150	150.0
UPS	1	25	25.0
DETECTION			
RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN			
NETWORK SWITCH II OR III	-	25	-
CELLULAR MODEM	-	35	-
	-	15	-
TOTAL UPS SIZING = 364.0			
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING = 969.0			

ENERGY COSTS TO:  
**VILLAGE OF MOUNT PROSPECT**  
 500 S EMERSON ST  
 MOUNT PROSPECT, IL 60056

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL  
 PHONE: 630-940-6805  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 9673056000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	52
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	548
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1215
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	27
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	85
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	265
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

REPLACE EXISTING CONTROLLER WITH FULLY-ACTUATED CONTROLLER

TYPE II CABINET



USER NAME = dlorion  
 PLOT SCALE = 40,000'/1" =  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
**US ROUTE 12 (RAND ROAD) AT BUSINESS CENTER ROAD**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	37

CONTRACT NO. 62W89

TS 9645

ILLINOIS FED. AID PROJECT

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF LEADING PEDESTRIAN INTERVAL PROGRAMMING.

**REMOVAL AND RELOCATION NOTES:**

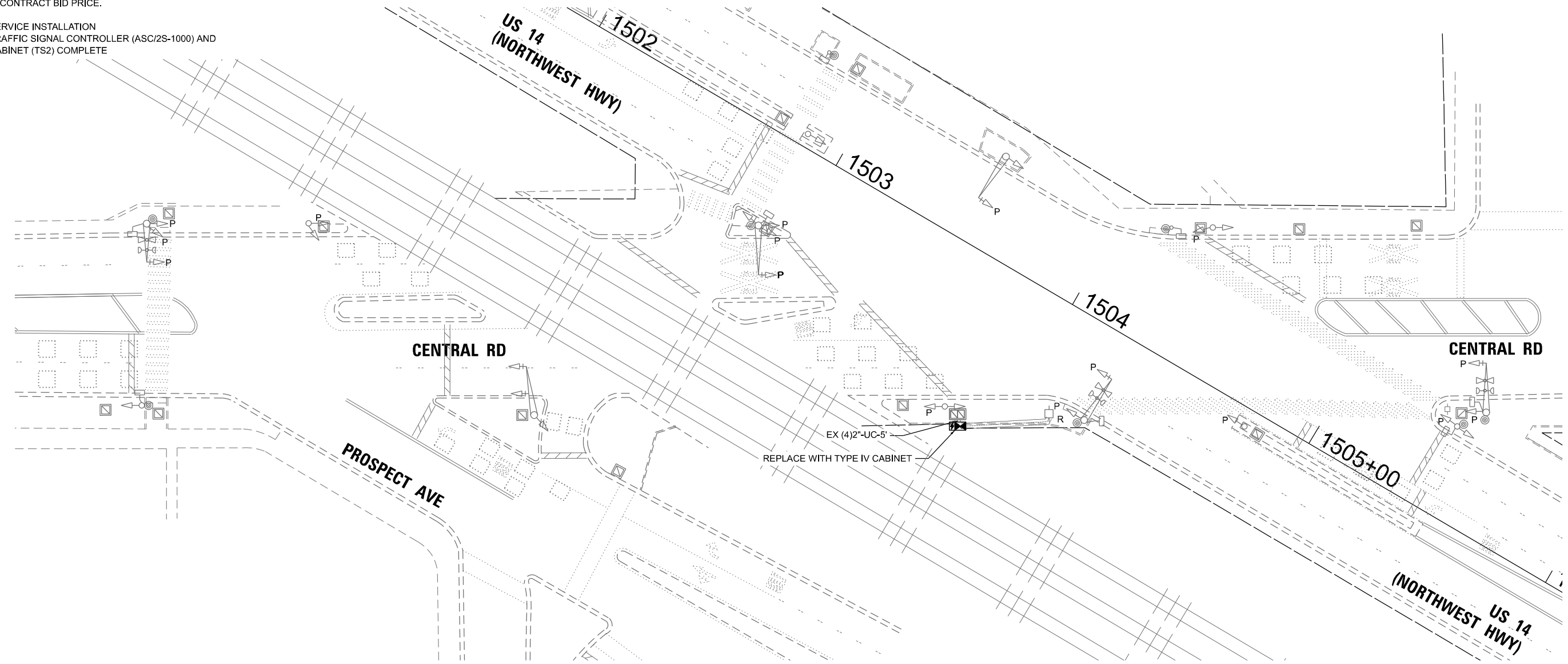
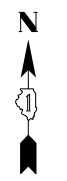
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

- 1 EACH LIGHT DETECTOR AMPLIFIER

**REMOVAL 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 SERVICE INSTALLATION
- 1 EACH TRAFFIC SIGNAL CONTROLLER (ASC/2S-1000) AND CABINET (TS2) COMPLETE



**TS 9690  
ECON 197**

MODEL: D:\p1\4 ATLAS Technical Consultants, LLC  
 FILE NAME: S:\Projects\2216 - DOT D1 - Ver P111 TES & Mgmt - TSIP\Project Work\CADD\CADD\_Sheets\17\_TS 9690 - US 14 Northwest Hwy) at Central Rd\24x36\24x36-CENTRAL at PROSPECT-Signal Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
DRAWN - JK	REVISIONS -	
PLOT SCALE = 40,000' / 1" =	CHECKED - DB	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
US ROUTE 14 AT CENTRAL ROAD / PROSPECT AVENUE**

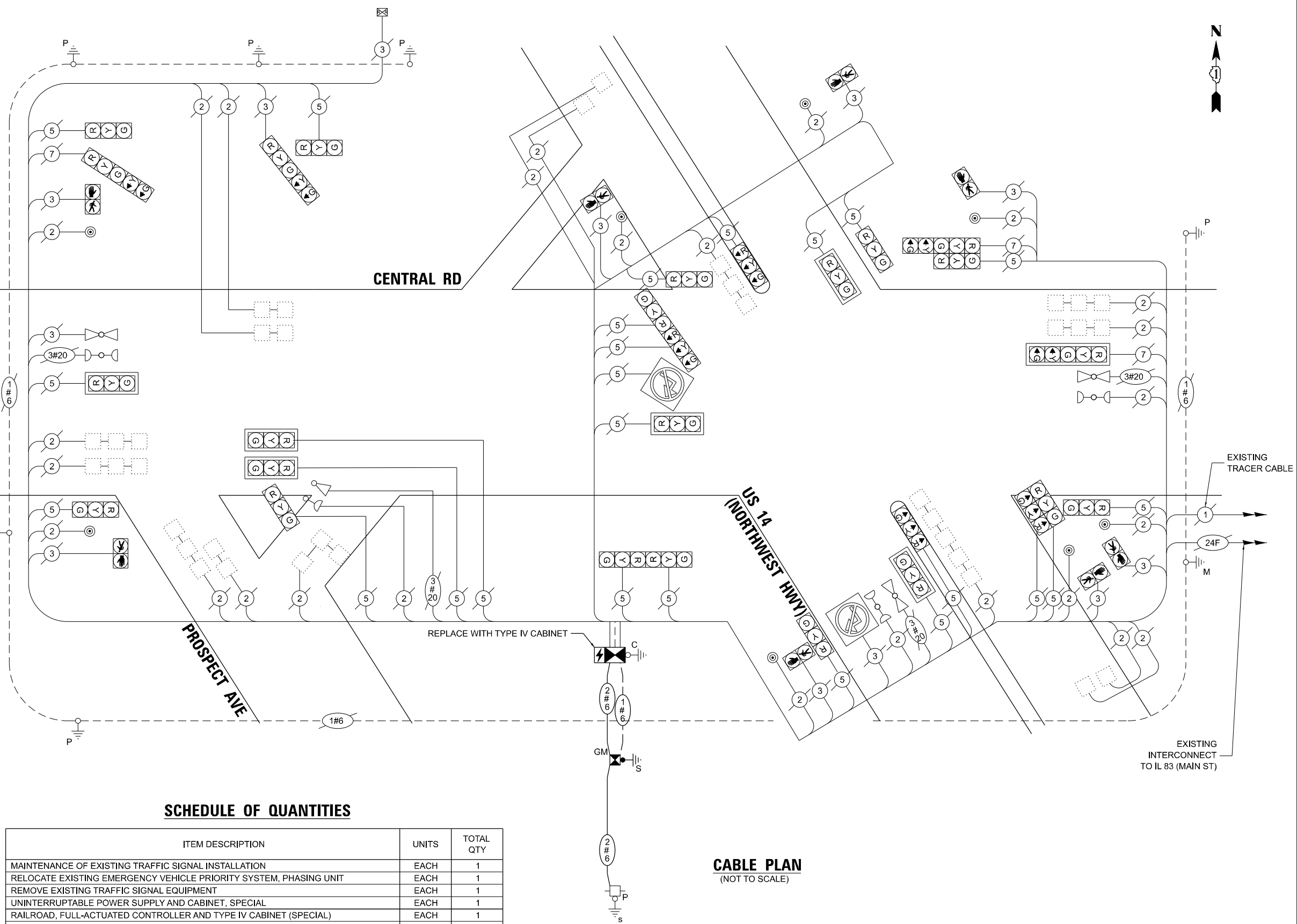
SCALE: 1"=20' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	38
			CONTRACT NO. 62W89	
		ILLINOIS	FED. AID PROJECT	



**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.
3. THE LPI WILL BE INSTALLED AFTER THE PROGRAM IS TESTED AND APPROVED.



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	23	11	253.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	8	15	120.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	2	25	50.0	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING = 650.0</b>				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING = 1255.0</b>				

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

**CABLE PLAN**  
(NOT TO SCALE)

ENERGY COSTS TO:  
**VILLAGE OF MOUNT PROSPECT**  
 50 S EMERSON ST  
 MOUNT PROSPECT, IL 60056

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL  
 PHONE: 630-940-6805  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 9673056000



USER NAME = dbriones  
 PLOT SCALE = 40,000' / 1" / in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES**  
**US ROUTE 14 AT CENTRAL ROAD / PROSPECT AVENUE**

SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	39
CONTRACT NO. 62W89				

ILLINOIS FED. AID PROJECT

**TS 9690**  
**ECON 197**

MODEL: D:\chicago\2024\964-TS\Project\Work\CADD\CADD\_Sheets\17\_TS\_9690-US 14 (Northwest Hwy) at Central Road\DWG\TS-Central-IL-PROSPECT-Cable\_Plan.dwg  
 FILE NAME: S:\proj\964-TS\Project\Work\CADD\CADD\_Sheets\17\_TS\_9690-US 14 (Northwest Hwy) at Central Road\DWG\TS-Central-IL-PROSPECT-Cable\_Plan.dwg

**EXISTING SEQUENCE OF OPERATIONS**

MOVEMENT	1 + 5				1 + 6			2 + 5				2 + 6								3 + 8								4				F L A S H												
	1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8	9A	9B	10	11	12A	12B	13A	13B	14A	14B	15A	15B	15C	15D	16	17	18A	18B	18C		18D	19A	19B	19C	19D	20	21	22	23A	23B	23C	23D
PHASE	1 + 5				1 + 6			2 + 5				2 + 6								3 + 8								4																
INTERVAL	1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8	9A	9B	10	11	12A	12B	13A	13B	14A	14B	15A	15B	15C	15D	16	17	18A	18B	18C	18D	19A	19B	19C	19D	20	21	22	23A	23B	23C	23D	
CHANGE TO		1 + 6			2 + 5			2 + 6					2 + 6					1 + 5 3 + 8		1 + 6		2 + 5		4						1 + 5 1 + 6 2 + 5 2 + 6				1 + 5 1 + 6 2 + 5 2 + 6										
US RTE 14 (NORTHWEST HWY) NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
US RTE 14 (NORTHWEST HWY) FAR LEFT AND MEDIAN SIGNALS	←G	←Y	←R	←G	←G	←Y	←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	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	
US RTE 14 (NORTHWEST HWY) NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	G	R	R	R	R	G	G	Y	R	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
US RTE 14 (NORTHWEST HWY) FAR LEFT AND MEDIAN SIGNALS	←G	←G	←G	←Y	←R	←Y	←R	←G	←Y	←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	
CENTRAL RD AT US RTE 14 ALL SIGNALS	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	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R
CENTRAL RD AT US RTE 14 NEAR AND FAR RIGHT SIGNALS	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	G	G	G	Y	R	G	G	G	G	R	G	G	G	G	Y	R
CENTRAL RD AT US RTE 14 FAR LEFT AND MAST ARM SIGNALS	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	G	G	G	Y	R	G	G	G	G	←G	←G	←G	←G	←G	←G	←G
CENTRAL RD AT PROSPECT AVE ALL SIGNALS	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
CENTRAL RD AT PROSPECT AVE ALL SIGNALS	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	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	
PROSPECT AVE NEAR RIGHT SIGNAL	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	R	R	R	R	R	R	R	R	
PROSPECT AVE FAR LEFT AND FAR RIGHT SIGNALS	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	R	R	R	R	R	R	R	R	
PEDESTRIAN SIGNALS CROSSING US RTE 14 ON NORTH SIDE OF CENTRAL RD	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	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING CENTRAL RD ON WEST SIDE OF PROSPECT AVE	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	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING US RTE 14 ON SOUTH SIDE OF CENTRAL RD	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	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING CENTRAL RD ON EAST SIDE OF US RTE 14	H	H	H	H	H	H	H	H	H	H	*P	**FH	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	H	H	H	H	H	

\* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

\*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

LPI = LEADING PEDESTRIAN INTERVAL WITH DELAYED VEHICULAR GREEN

P = "WALK"

FH = FLASHING "DON'T WALK"

H = "DON'T WALK"

∅ THIS " " OR FLASHING " " INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE " " OR FLASHING " " INTERVALS. " " AND FLASHING " " TIMINGS TO BE SET ONLY ON PHASES WHERE " " AND FLASHING " " ARE INDICATED IN SEQUENCE OF OPERATION.

PHASE 2+6 SHALL BE PLACED ON RECALL

MODEL: D:\p1\1\216 - DOT D1\_Ver FRII TES & Mgmt - TSP\Project Work\CADD\CADD\_Sheets\17\_TS 9690 - US 14 (Northwest Hwy) at Central Rd\02\08\01\01-CENTRAL at PROSPECT-Cadd\_Plan - 1.dgn



USER NAME = dforbes	DESIGNED - DLB	REVISED -
DRAWN - JK	REVISED -	
PLOT SCALE = 40,000' / in.	CHECKED - DB	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING SEQUENCE OF OPERATION  
US ROUTE 14 AT CENTRAL ROAD / PROSPECT AVENUE**

SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	40
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 9690  
ECON 197**





**PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATIONS**

															PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	PREEMPTOR NUMBER 2												
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5	7	10	16	20	21															2	3	4	5						
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER															2	3	4	5													
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1N	1L	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	2	3	4	5	CLEAR TO NORMAL SEQUENCE			
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	1P	1M	1P	2	1R	2	1T	2	1V	2	1X	2	3	4	5					
U.S. RTE. 14 (NORTHWEST HWY.) NW/B NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	G	△			
U.S. RTE. 14 (NORTHWEST HWY.) NW/B FAR LEFT AND MEDIAN SIGNALS	←Y	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	△			
U.S. RTE. 14 (NORTHWEST HWY.) SE/B NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	G	△			
U.S. RTE. 14 (NORTHWEST HWY.) SE/B FAR LEFT AND MEDIAN SIGNALS	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	△			
CENTRAL ROAD AT U.S. RTE. 14 ALL SIGNALS	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	△			
CENTRAL ROAD AT U.S. RTE. 14 NEAR AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	R	R	R	R	G	G	G	G	G	Y	R	R	△			
CENTRAL ROAD AT U.S. RTE. 14 FAR LEFT AND MAST ARM SIGNALS	R	R	R	R	R	R	R	R	G	G	←G	←G	←G	←G	←G	R	R	R	R	G	G	←G	←G	←G	←G	←G	←G	△			
CENTRAL ROAD AT PROSPECT AVENUE ALL SIGNALS	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	R	R	R	R	R	↑	↑	↑	↑	↑	↑	↑	R	R	↑	Y	R	R	△		
CENTRAL ROAD AT PROSPECT AVENUE ALL SIGNALS	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	△			
PROSPECT AVENUE NEAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	△			
PROSPECT AVENUE FAR LEFT AND FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	Y	R	R	R	R	R	R	△			
PED. SIGNALS X-ING U.S. RTE. 14 ON NORTH SIDE OF CENTRAL ROAD	H	H	H	H	H	H	H	H	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△			
PED. SIGNALS X-ING CENTRAL ROAD ON WEST SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	**FH	**FH	H	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	△			
PED. SIGNALS X-ING U.S. RTE. 14 ON SOUTH SIDE OF CENTRAL ROAD	H	H	H	H	H	H	H	H	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△			
PED. SIGNALS X-ING CENTRAL ROAD ON EAST SIDE OF U.S. RTE. 14	H	H	H	H	**FH	H	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△			
INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△			

△ HOLD

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

⊙ RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 1+6 AND 2+6 UNTIL RAILROAD PREEMPTION IS TERMINATED.

NRT = "NO RIGHT TURN" OR 

MODEL: D:\atlas\Projects\2116 - ICDT - Var PH1 TES & Mgmt - TSP\Project\Work\CD\ICADD\_Sheets\17\_TS 9690 - US 14 Northwest Hwy at Central Road\2116-03-CENTRAL at PROSPECT-Cable Plan - 2.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

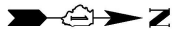
<b>EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS</b>		
<b>US ROUTE 14 AT CENTRAL ROAD /PROSPECT AVENUE</b>		
SCALE: N.T.S.	SHEET 4 OF 5 SHEETS	STA. TO STA.

F.A.U. RTE. XXX	SECTION 2024-984-TS	COUNTY COOK	TOTAL SHEETS 89	SHEET NO. 41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62W89	

**TS 9690  
ECON 197**

**PROPOSED EMERGENCY VEHICLE PREEMPTION  
SEQUENCE OF OPERATIONS**

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1				5				7				10				10				10				10																
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM	1NN	1PP	1QQ	1RR	1RR
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	1F	4	1H	1J	1K	5	1M	2 or 4	3	1Q	1R	1S	5	2	1V	1W	3 or 4	1Y	1Z	1AA	1BB	5	1DD	1EE	2	1GG	1GG	3	1KK	1LL	4	1NN	1PP	1QQ	1RR	5	
U.S. RTE. 14 (NORTHWEST HWY.) NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	Y	R	R	R	G	G	G	G	Y	R	G	Y	R	G	Y	R	R	R	
U.S. RTE. 14 (NORTHWEST HWY.) FAR LEFT AND MEDIAN SIGNALS	+G	+G	+Y	+R	+Y	+R	+Y	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+G	+G	+Y	+R	+G	+Y	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	
U.S. RTE. 14 (NORTHWEST HWY.) NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	G	Y	R	R	R	
U.S. RTE. 14 (NORTHWEST HWY.) FAR LEFT AND MEDIAN SIGNALS	+Y	+R	+G	+G	+Y	+R	+Y	+R	+R	+R	+Y	+R	+G	+Y	+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	
CENTRAL ROAD AT U.S. RTE. 14 ALL SIGNALS	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	R	R	R	R	R	
CENTRAL ROAD AT U.S. RTE. 14 NEAR AND FAR RIGHT SIGNALS	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	R	R	R	R	R	
CENTRAL ROAD AT U.S. RTE. 14 FAR LEFT AND MAST ARM SIGNALS	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	R	R	R	R	R	
CENTRAL ROAD AT PROSPECT AVENUE ALL SIGNALS	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
CENTRAL ROAD AT PROSPECT AVENUE ALL SIGNALS	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	R	R	R	R	R	
PROSPECT AVENUE NEAR RIGHT SIGNAL	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	R	R	R	R	R	
PROSPECT AVENUE FAR LEFT AND FAR RIGHT SIGNALS	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	R	R	R	R	R	
PED. SIGNALS X-ING U.S. RTE. 14 ON NORTH SIDE OF CENTRAL ROAD	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	H	H	H	
PED. SIGNALS X-ING CENTRAL ROAD ON WEST SIDE OF PROSPECT AVENUE	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	H	H	H	
PED. SIGNALS X-ING U.S. RTE. 14 ON SOUTH SIDE OF CENTRAL ROAD	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	H	H	H	
PED. SIGNALS X-ING CENTRAL ROAD ON EAST SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	FH	H	H	H	H	H	FH	H	H	H	FH	H	H	H	FH	H	H	H	H	H	



**PROPOSED EMERGENCY VEHICLE PREEMPTION  
SEQUENCE OF OPERATIONS**

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	16				16				20				20				20				PREEMPTOR NUMBER 3				PREEMPTOR NUMBER 4				PREEMPTOR NUMBER 5				PREEMPTOR NUMBER 6			
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1SS	1TT	1UU	1VV	1WW	1XX	1YY	1ZZ	1AAA	1BBB	1CCC	1DDD	1EEE	1FFF	1GGG	1HHH	1JJJ	1KKK	1LLL	1MMM	1NNN	2	3	4	5	CLEAR TO NORMAL SEQUENCE										
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1TT	1UU	1VV	1WW	2 or 3	4	1ZZ	1AAA	1BBB	1CCC	5	1EEE	1FFF	1GGG	1HHH	2 or 3	1KKK	1LLL	1MMM	4	5															
U.S. RTE. 14 (NORTHWEST HWY.) NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R											
U.S. RTE. 14 (NORTHWEST HWY.) FAR LEFT AND MEDIAN SIGNALS	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+G	+R	+R	+R											
U.S. RTE. 14 (NORTHWEST HWY.) NEAR RIGHT, FAR RIGHT AND MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R											
U.S. RTE. 14 (NORTHWEST HWY.) FAR LEFT AND MEDIAN SIGNALS	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+R	+G	+R	R												
CENTRAL ROAD AT U.S. RTE. 14 ALL SIGNALS	G	Y	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								
CENTRAL ROAD AT U.S. RTE. 14 NEAR AND FAR RIGHT SIGNALS	G	G	G	Y	R	G	G	G	G	G	G	G	G	G	Y	R	G	G	G	G	G	R	R	G	G											
CENTRAL ROAD AT U.S. RTE. 14 FAR LEFT AND MAST ARM SIGNALS	G	G	G	Y	R	G	G	G	G	G	G	G	+G	+G	+G	Y	R	+G	+G	+G	+Y	+G	R	R	G											
CENTRAL ROAD AT PROSPECT AVENUE ALL SIGNALS	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑								
CENTRAL ROAD AT PROSPECT AVENUE ALL SIGNALS	G	Y	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								
PROSPECT AVENUE NEAR RIGHT SIGNAL	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								
PROSPECT AVENUE FAR LEFT AND FAR RIGHT SIGNALS	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								
PED. SIGNALS X-ING U.S. RTE. 14 ON NORTH SIDE OF CENTRAL ROAD	FH	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								
PED. SIGNALS X-ING CENTRAL ROAD ON WEST SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H								
PED. SIGNALS X-ING U.S. RTE. 14 ON SOUTH SIDE OF CENTRAL ROAD	FH	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								
PED. SIGNALS X-ING CENTRAL ROAD ON EAST SIDE OF U.S. RTE. 14	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								

◇ 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 INTERVAL AFTER EMERGENCY VEHICLE 2, 3, 4 OR 5 IS TERMINATED.

MODEL: D:\atlas\2110 - DOT D1 Ver Final IES & Mgmt - 7/31/2025\work\KICADDICADD\_Sheets\11 - TS 9690 - US 14 (Northwest Hwy) at Central Road\20240809-eh03-CENTRAL at PROSPECT-Cable Plan - 3.dgn



USER NAME = dbrones	DESIGNED - DLB	REVISED -
	DRAWN - JK	REVISED -
PLOT SCALE = 40,000' / in.	CHECKED - DB	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING RAILROAD PREEMPTION  
SEQUENCE OF OPERATIONS  
US ROUTE 14 AT CENTRAL ROAD /PROSPECT AVENUE**

SCALE: N.T.S. SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	42
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 9690  
ECON 197**

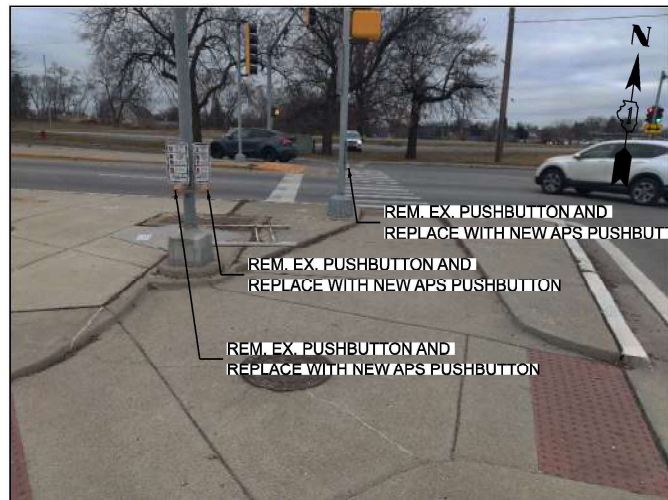
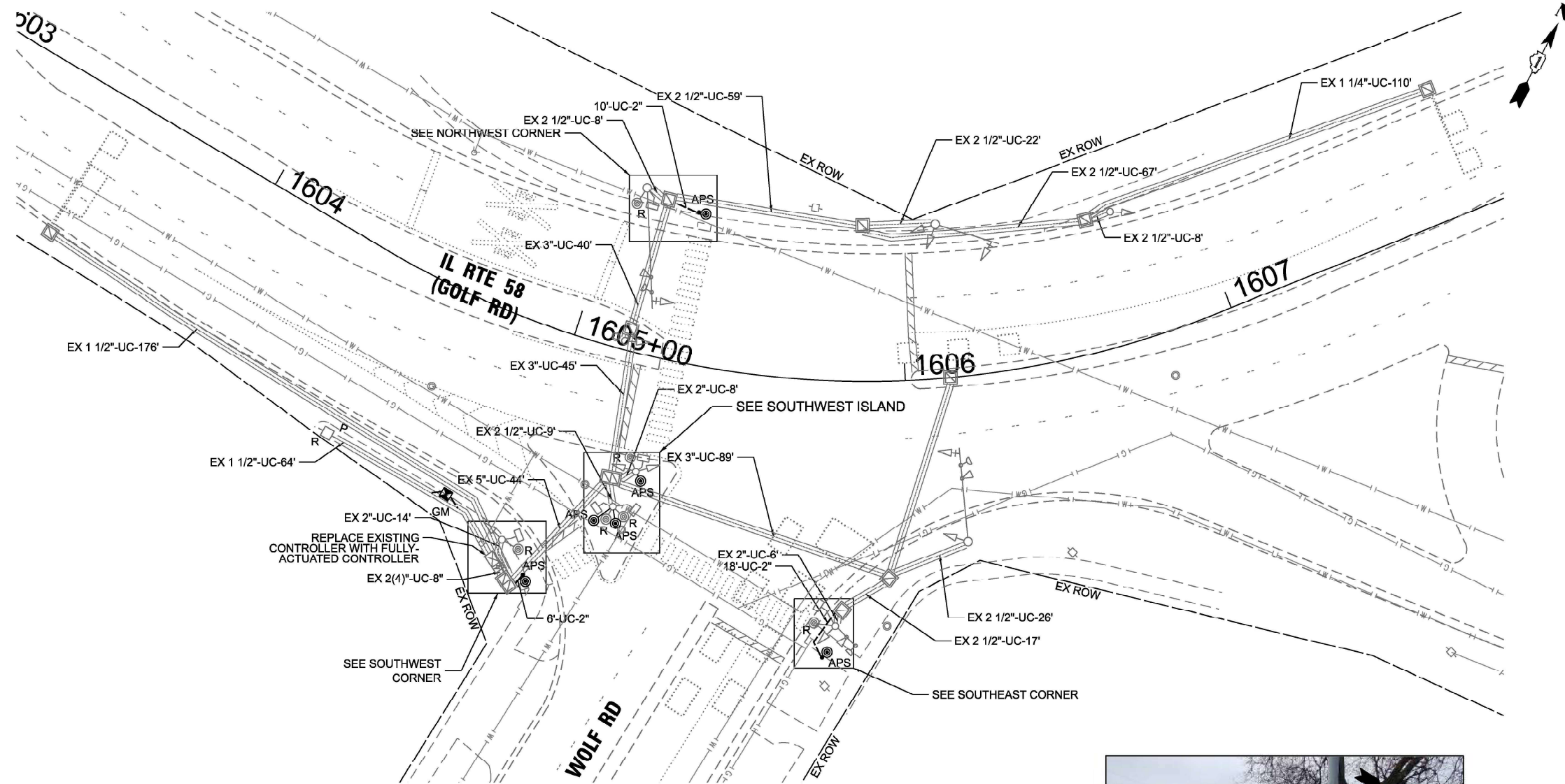
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

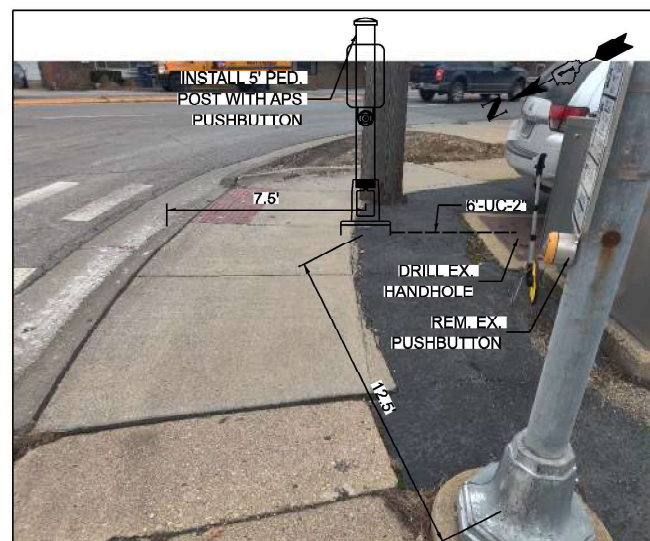
**REMOVAL NOTES:**

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.

- |   |      |                       |
|---|------|-----------------------|
| 6 | EACH | PEDESTRIAN PUSHBUTTON |
| 1 | EACH | CONTROLLER            |
| 1 | EACH | SERVICE INSTALLATION  |



SOUTHWEST ISLAND



SOUTHWEST CORNER



SOUTHEAST CORNER



NORTHWEST CORNER



TS 2865  
ECON 204

MODEL: D:\atlas\Projects\2116 - DOTD - Var Phis TES & Mgmt - TSP\Project\Work\CD\CD\CD\_Sheet118 - L 58 (Golf Rd) at Wolf Road\05109-2116-L 58 at Wolf-Signal Plan.dgn



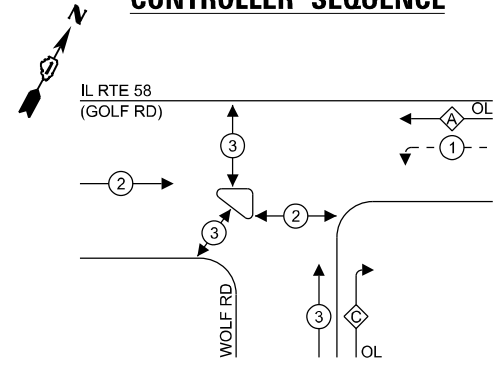
USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

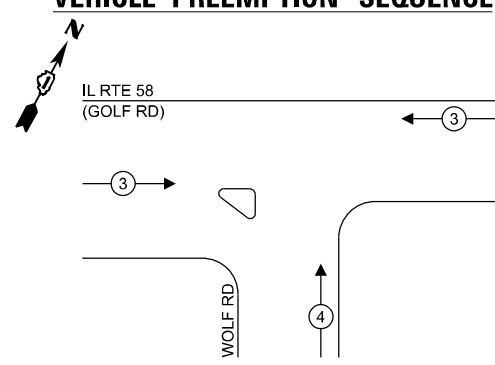
TRAFFIC SIGNAL INSTALLATION PLAN	
IL ROUTE 58 (GOLF ROAD) AT WOLF ROAD	
SCALE: 1"=20'	SHEET 1 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	43
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

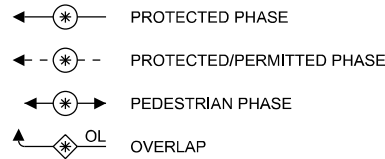
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 1
C	= 3	+ 1

**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 3. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

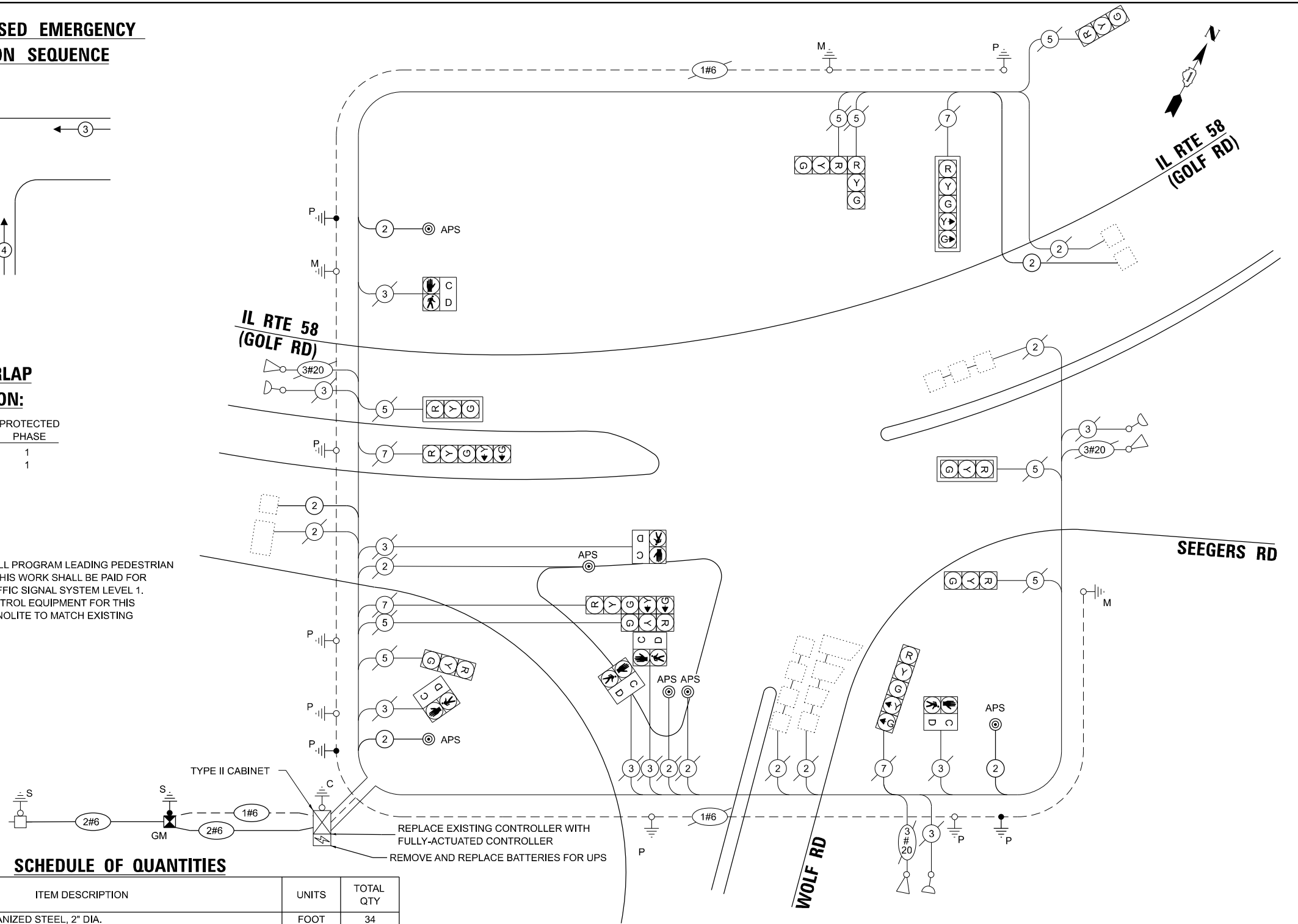
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	6	15	90	
MASTER CONTROLLER	1	150	150.0	
UPS	-	100	-	
DETECTION RADAR	1	25	25.0	
VIDEO	-	20	-	
BLANK-OUT SIGN	-	20	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 405.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 1010.0				
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 W CENTER COURT SCHAUMBURG, IL 60196-1096				
ENERGY SUPPLY: CONTACT: JAMES CAMPBELL PHONE: 630-940-6805 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: - 6015004000				

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	34
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	553
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	636
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	38
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	288
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	3
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	66
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	3
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
IL ROUTE 58 (GOLF ROAD) AT WOLF ROAD

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	44
CONTRACT NO. 62W89				

TS 2865  
ECON 204

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

USER NAME = dloriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000'"/in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DB	REVISED -
	DATE - 07/31/2025	REVISED -

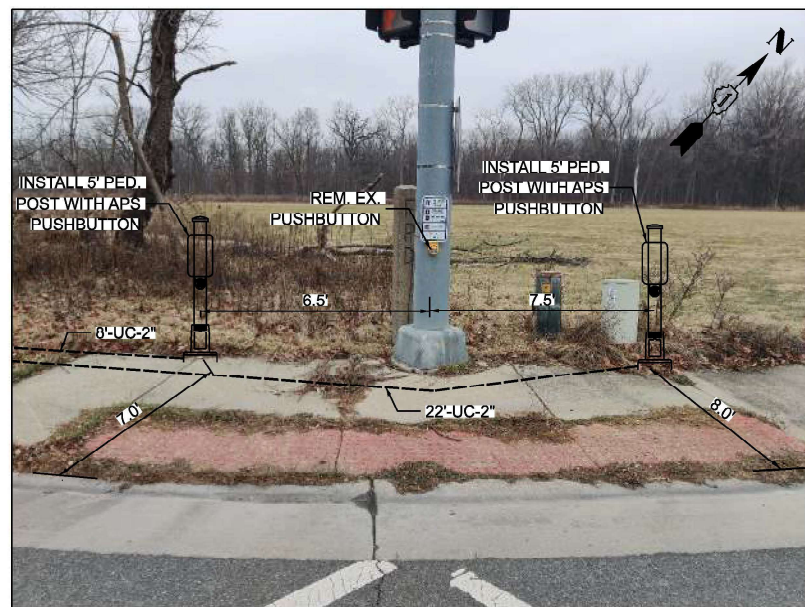
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**REMOVAL 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.

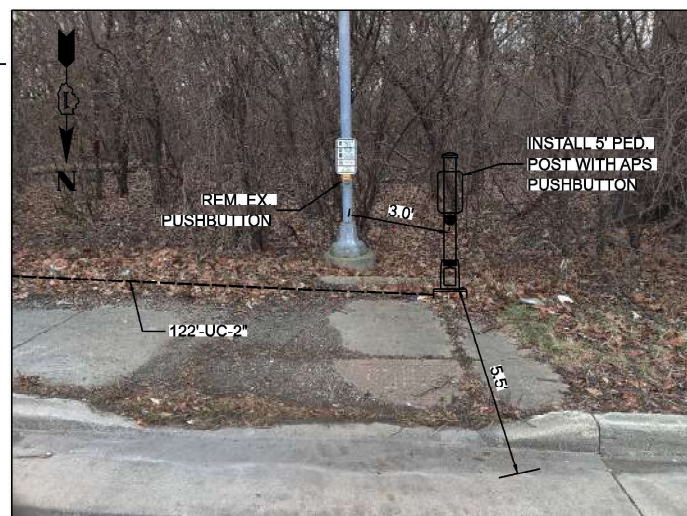
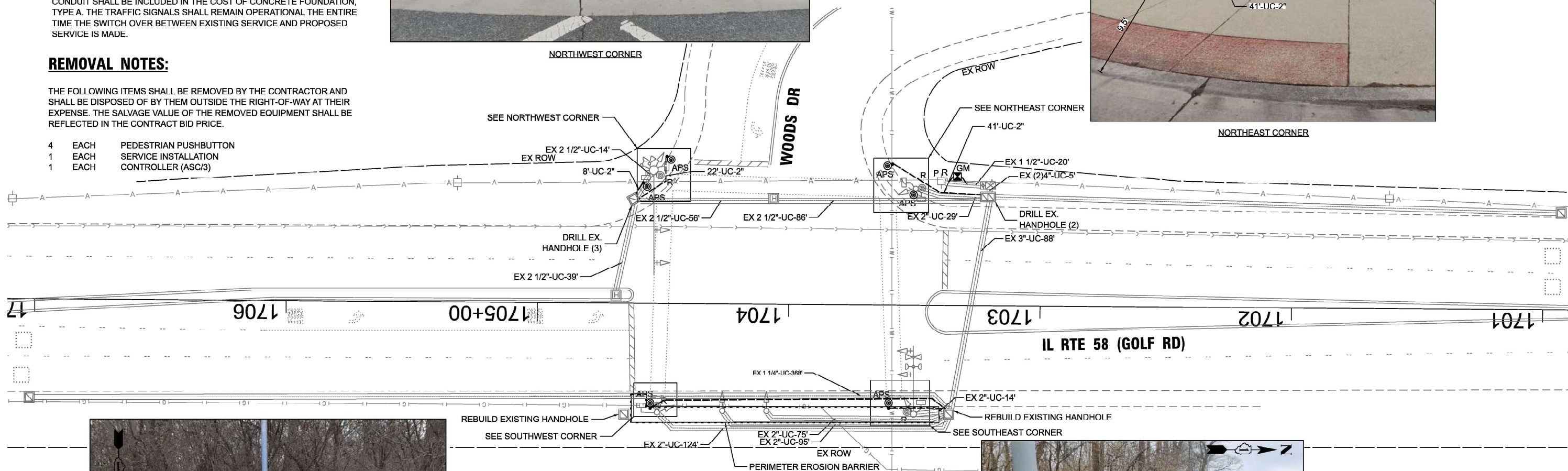
- 4 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH SERVICE INSTALLATION
- 1 EACH CONTROLLER (ASC/3)



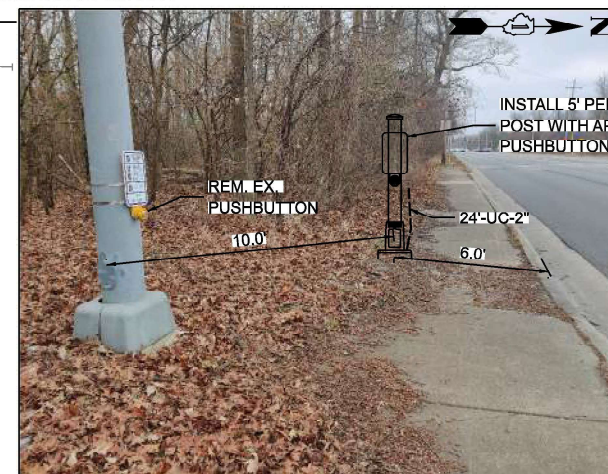
NORTHWEST CORNER



NORTHEAST CORNER



SOUTHWEST CORNER



SOUTHEAST CORNER



**TS 5157  
ECON 8**

MODEL: D:\atlas\Projects\2116 - ICDT - Var Phis TES & Mgmt - TS 5157 - L 58 (Golf Rd) at Woods Dr\2116-11\Woods-Signal Plan.dgn  
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USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40.000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

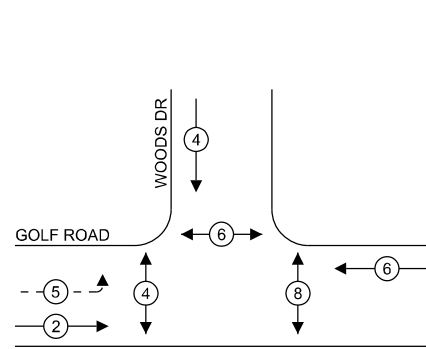
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 58 (GOLF ROAD) AT WOODS ROAD**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	45
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

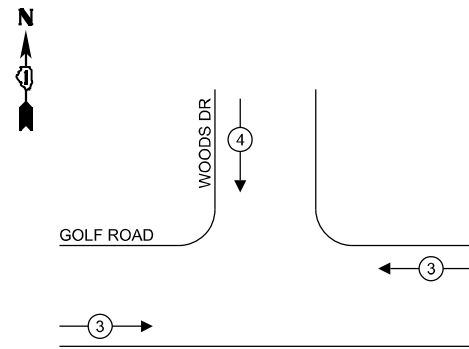
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTE:**

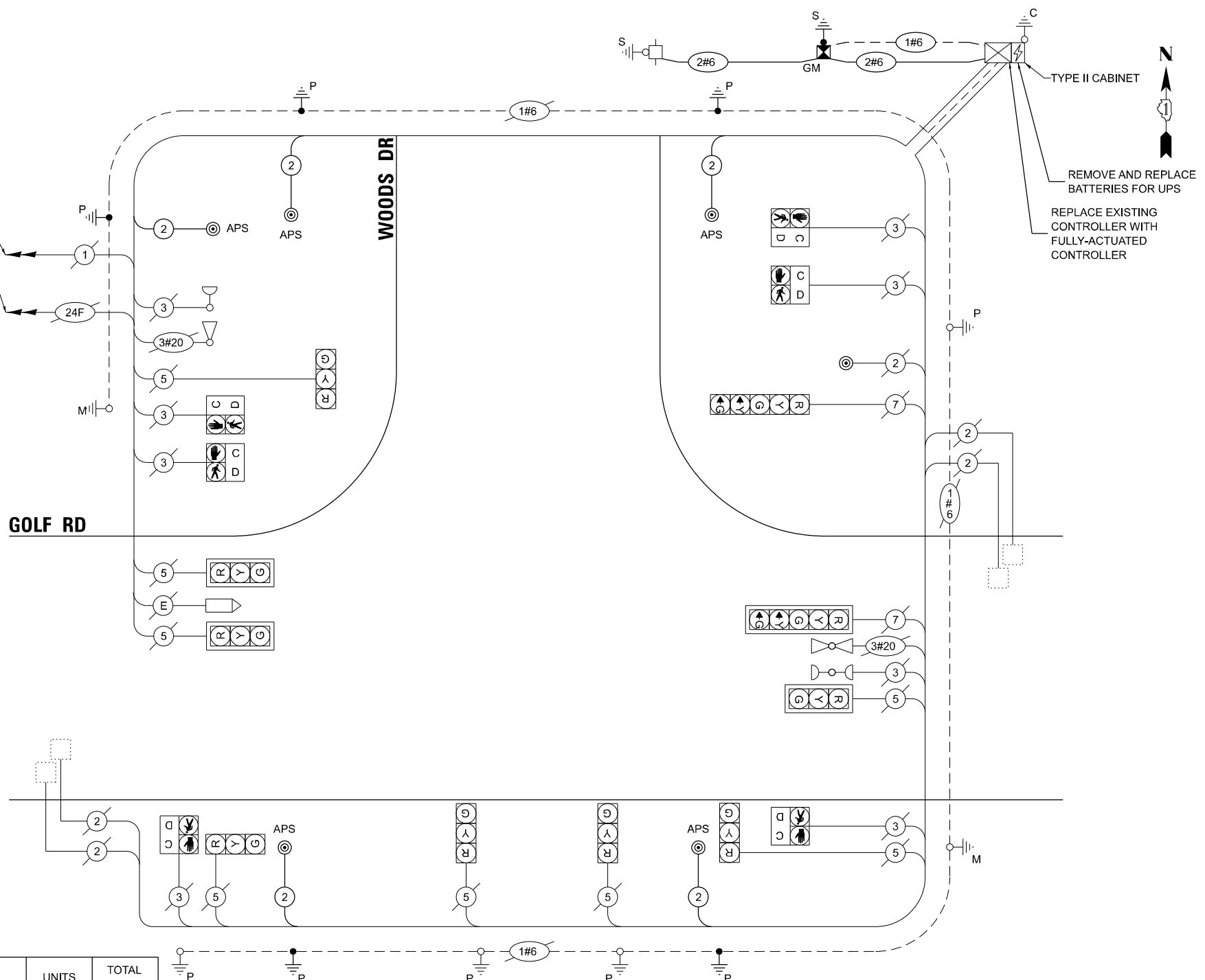
1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASES 4 AND 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	6	15	90.0	
MASTER CONTROLLER	1	150	150.0	
UPS	1	25	25.0	
DETECTION RADAR	-	20	-	
VIDEO	-	20	-	
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 379.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 984.0				
ENERGY COSTS TO: VILLAGE OF SKOKIE 5127 OAKTON ST SKOKIE, IL 60077				
ENERGY SUPPLY: CONTACT: AXL DAVIS PHONE: 773-231-6111 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: - 8332677000				

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
PERIMETER EROSION BARRIER	FOOT	268
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	229
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	870
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	28
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	68
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	5
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	601
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	5
SELECTIVE CLEARING	UNIT	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN (NOT TO SCALE)**



USER NAME = dloriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DB	REVISED -
	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES IL ROUTE 58 (GOLF ROAD) AT WOODS DRIVE**

F.A.U. RTE. XXX	SECTION 2024-964-TS	COUNTY COOK	TOTAL SHEETS 89	SHEET NO. 46
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 5157 ECON 8**

MODEL: D:\proj\11-2024\11-2024-001\11-2024-001.dwg, Ver: P111 TES & Mmm - TSP\Project\Work\CADD\CADD\_Sheets\11-2024-001.dwg, TS 5157 - IL 58 (GOLF RD) at Woods Drive\11-2024-001.dwg, 11-2024-001.dwg

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**REMOVAL 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.

- 4 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH SERVICE INSTALLATION



SOUTHWEST CORNER



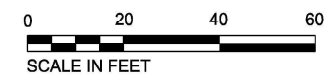
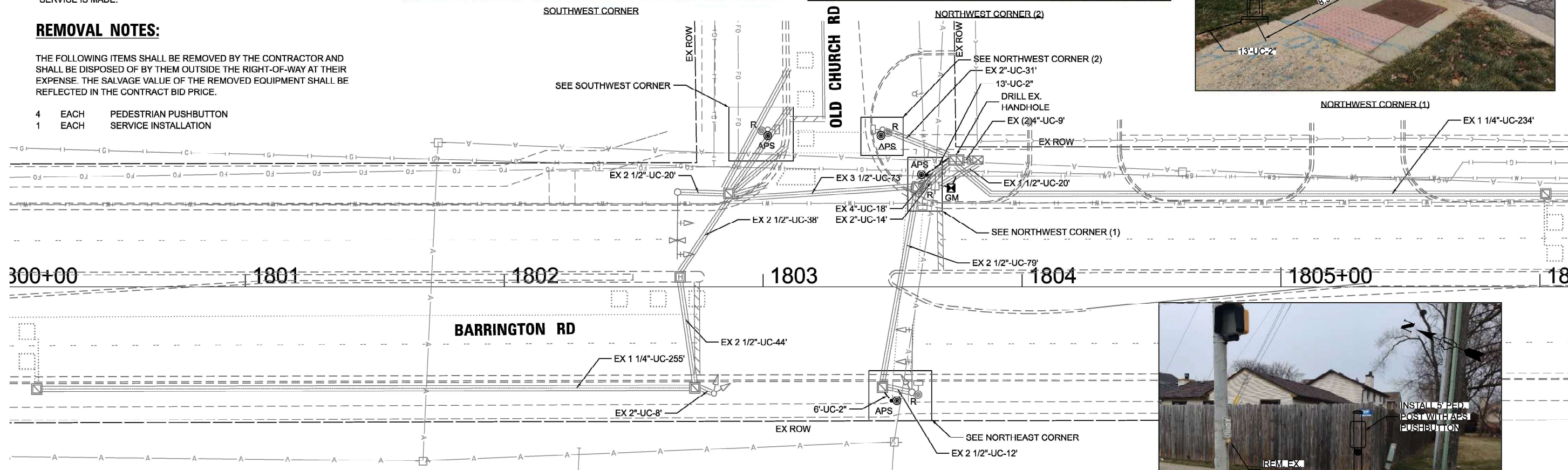
NORTHWEST CORNER (2)



NORTHWEST CORNER (1)



NORTHEAST CORNER



TS 21130  
ECON 150

MODEL: D:\proj\21130 - DCTD - Var Phil TES & Mgmt - TSP\Project Work\CD\CD\CADD\_Sheets\20 - Sheets\20 - Barrington Rd at Old Church Road\TS21130-001.dwg



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

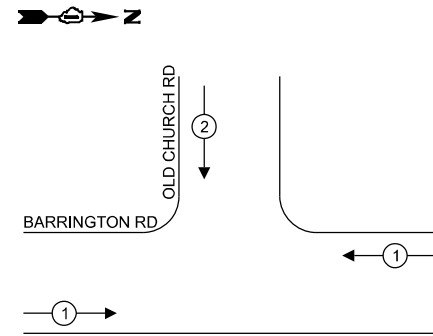
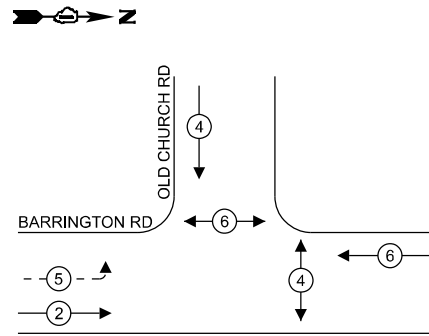
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
BARRINGTON ROAD AT OLD CHURCH ROAD  
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	47
			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**NOTE:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	6	11	66.0
4 - SECTION	-	14	-
5 - SECTION	2	13	26.0
PROGRAMMABLE SIGNALS			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	4	15	60.0
MASTER CONTROLLER	1	150	150.0
UPS	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING =			327.0
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING =			932.0

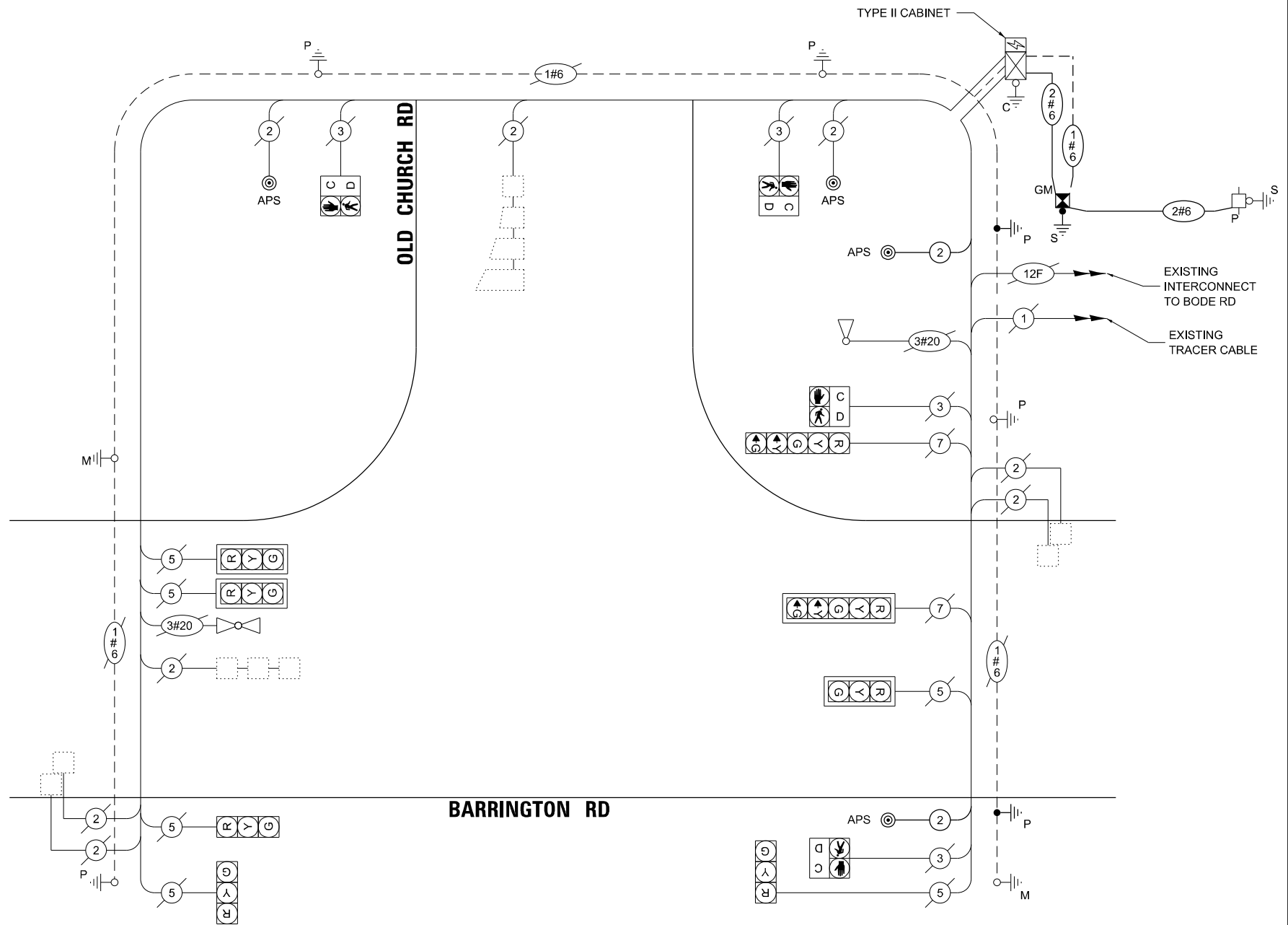
ENERGY COSTS TO:  
**VILLAGE OF STREAMWOOD**  
 301 E IRVING PARK RD  
 STREAMWOOD, IL 60107

ENERGY SUPPLY: CONTACT: CASSIE EVANS  
 PHONE: 773-241-0741  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 8091045733

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	19
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	198
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	28
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	67
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	207
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**





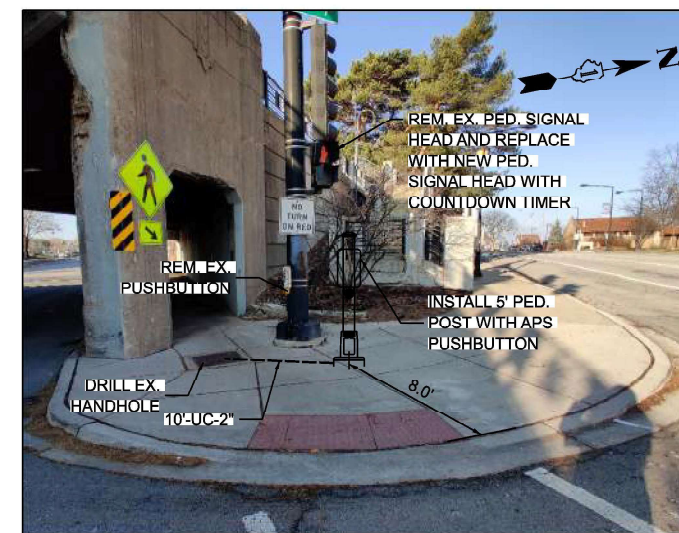
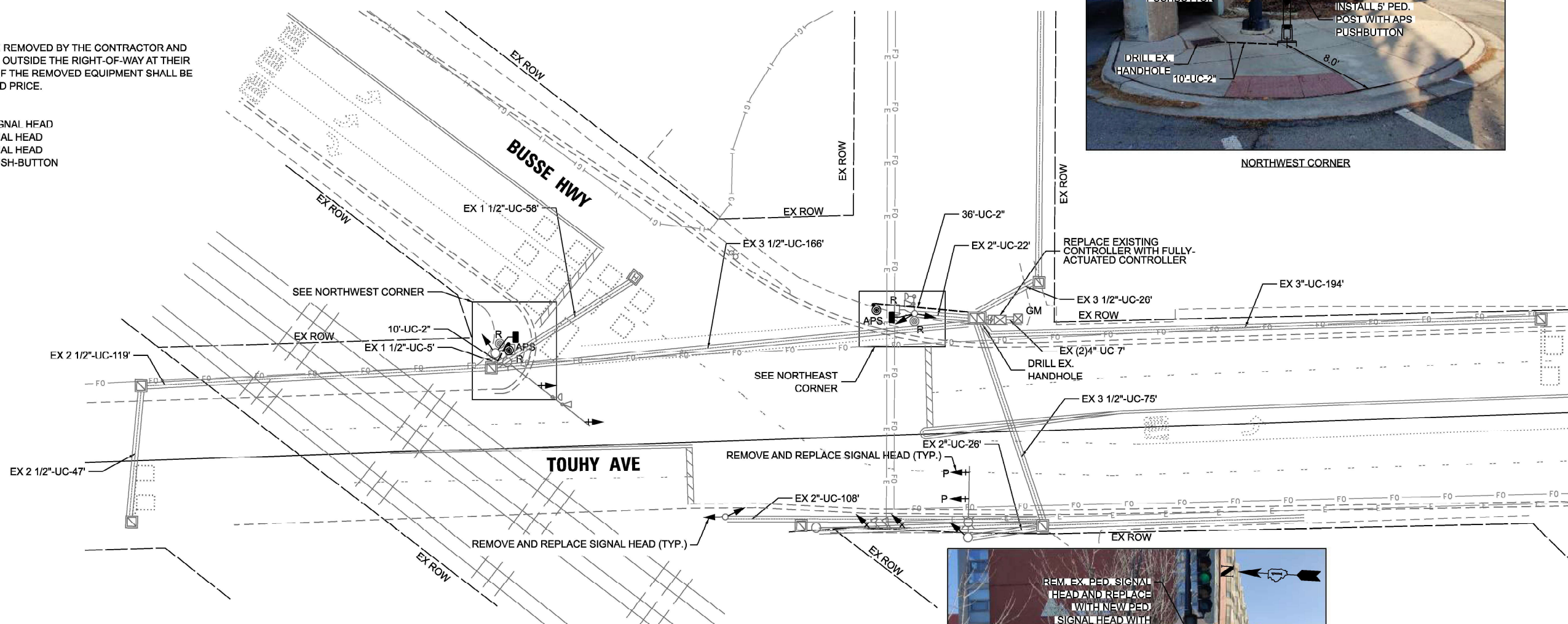
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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             |
| 2 | EACH | PEDESTRIAN SIGNAL HEAD |
| 7 | EACH | 3-SECTION SIGNAL HEAD  |
| 4 | EACH | 5-SECTION SIGNAL HEAD  |
| 2 | EACH | PEDESTRIAN PUSH-BUTTON |



NORTHWEST CORNER



NORTHEAST CORNER



TS 9240  
ECON 190

MODEL: D:\atlas\GIS\Projects\2116 - DCTD - Var Phil TES & Mgmt - TSP\Project\Work\CD\CD\CADD\_Sheets\22\_TS 9240 - Busse Hwy at Touhy\SIGNAL\_Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

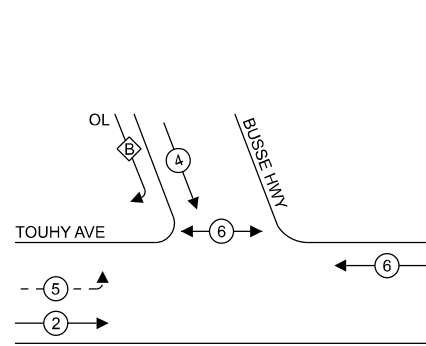
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
BUSSE HIGHWAY AT TOUHY AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	49
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

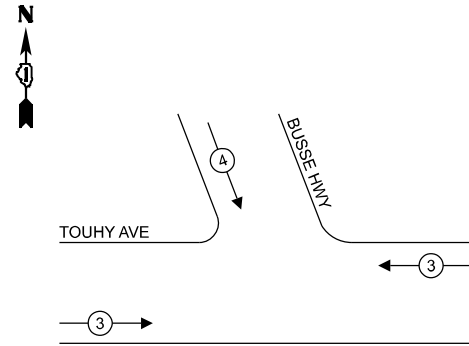
- ← (A) → PROTECTED PHASE
- ← (A) - - (A) → PROTECTED/PERMITTED PHASE
- ← (A) → (A) → PEDESTRIAN PHASE
- ← (A) → (A) → OL OVERLAP

**NOTE:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

EV = ELONGATED VISOR

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	8	11	88.0
4 - SECTION	-	14	-
5 - SECTION	4	13	52.0
<b>PROGRAMMABLE SIGNALS</b>			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
<b>PED. SIGNAL</b>			
CONTROLLER	1	150	150.0
MASTER CONTROLLER	-	100	-
<b>UPS</b>			
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING = 345.0</b>			
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	2	240	480.0
<b>TOTAL SERVICE WIRE SIZING = 1430.0</b>			

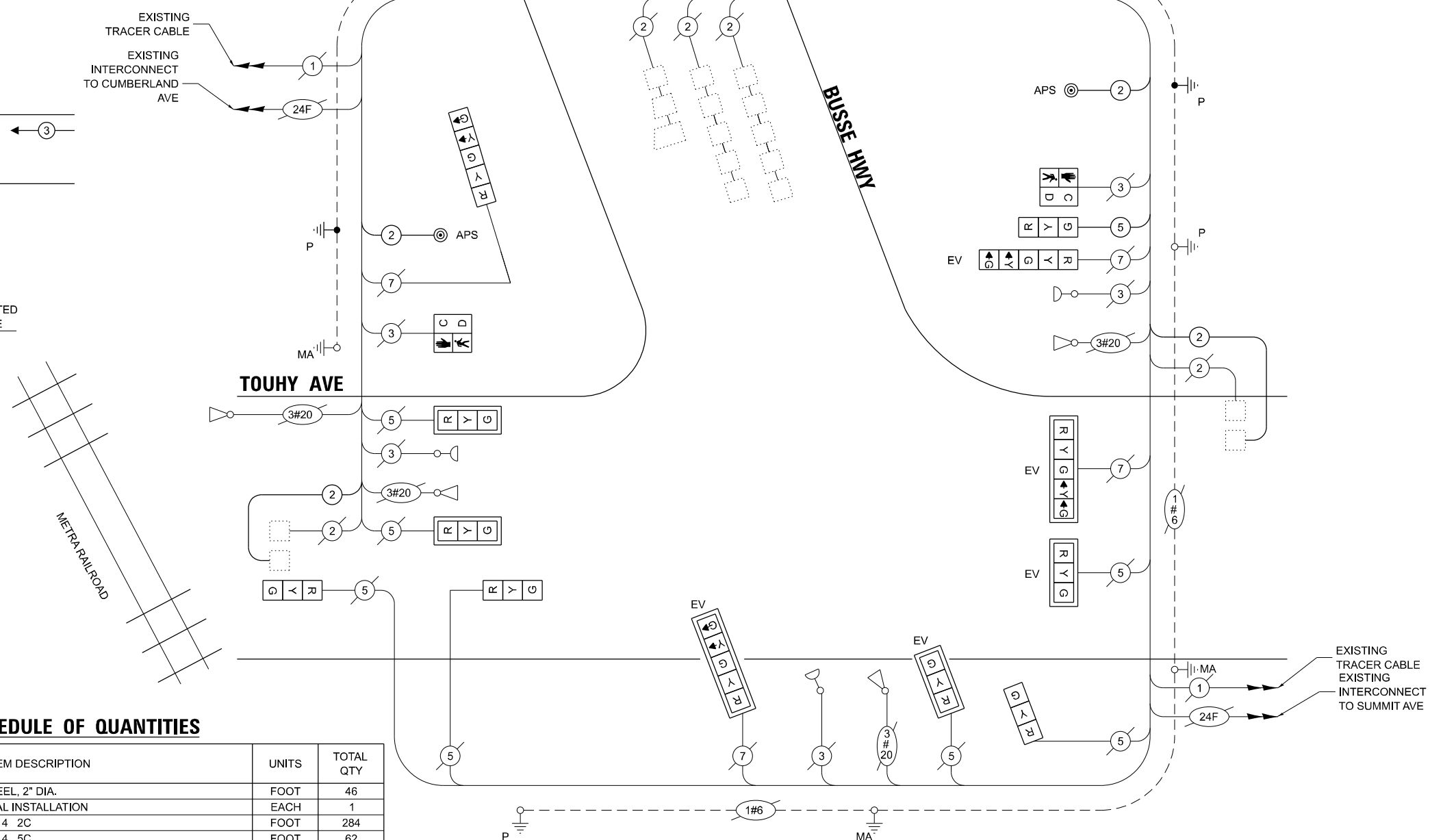
ENERGY COSTS TO:  
**VILLAGE OF WOODRIDGE**  
 5 PLAZA DRIVE  
 WOODRIDGE, IL 60517

ENERGY SUPPLY: CONTACT: AXL DAVIS  
 PHONE: 773-231-2969  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 8275375000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	46
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	284
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	62
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	595
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	96
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	202
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	2
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	13
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**



MODEL: D:\chicago\2024\TS9240\TS9240-964-1\Drawings\TS9240-964-1-001.dwg  
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 USER: dforbes  
 DATE: 7/31/2025



USER NAME	= dforbes
PLOT SCALE	= 40,000' = 1 in.
PLOT DATE	= 7/31/2025

DESIGNED	- DLB	REVISED	-
DRAWN	- JK	REVISED	-
CHECKED	- DB	REVISED	-
DATE	- 07/31/2025	REVISED	-

STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION
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**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES**  
**BUSSE HIGHWAY AT TOUHY AVENUE**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	50
CONTRACT NO. 62W89				

ILLINOIS	FED. AID PROJECT
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**TS 9240  
ECON 190**

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

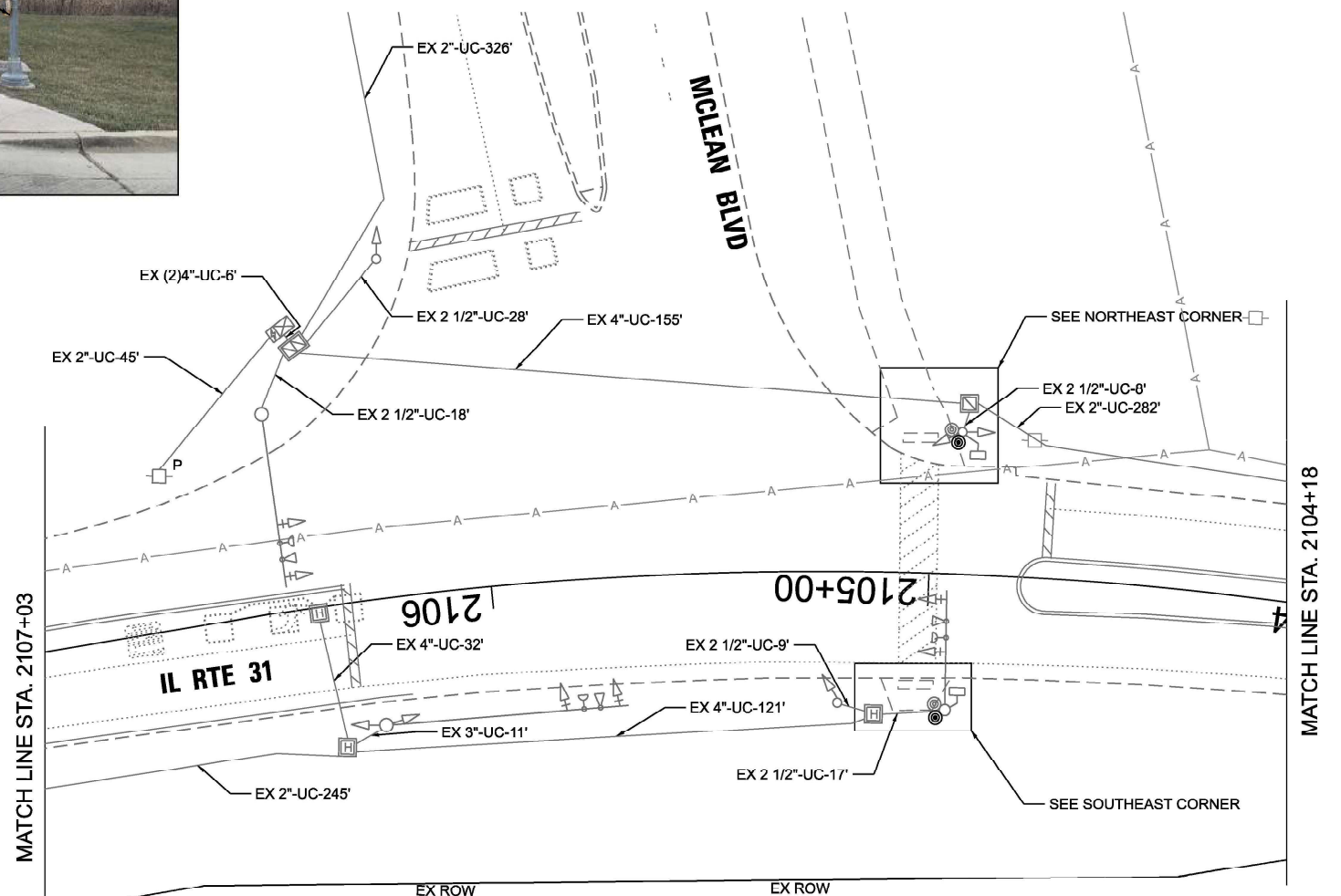
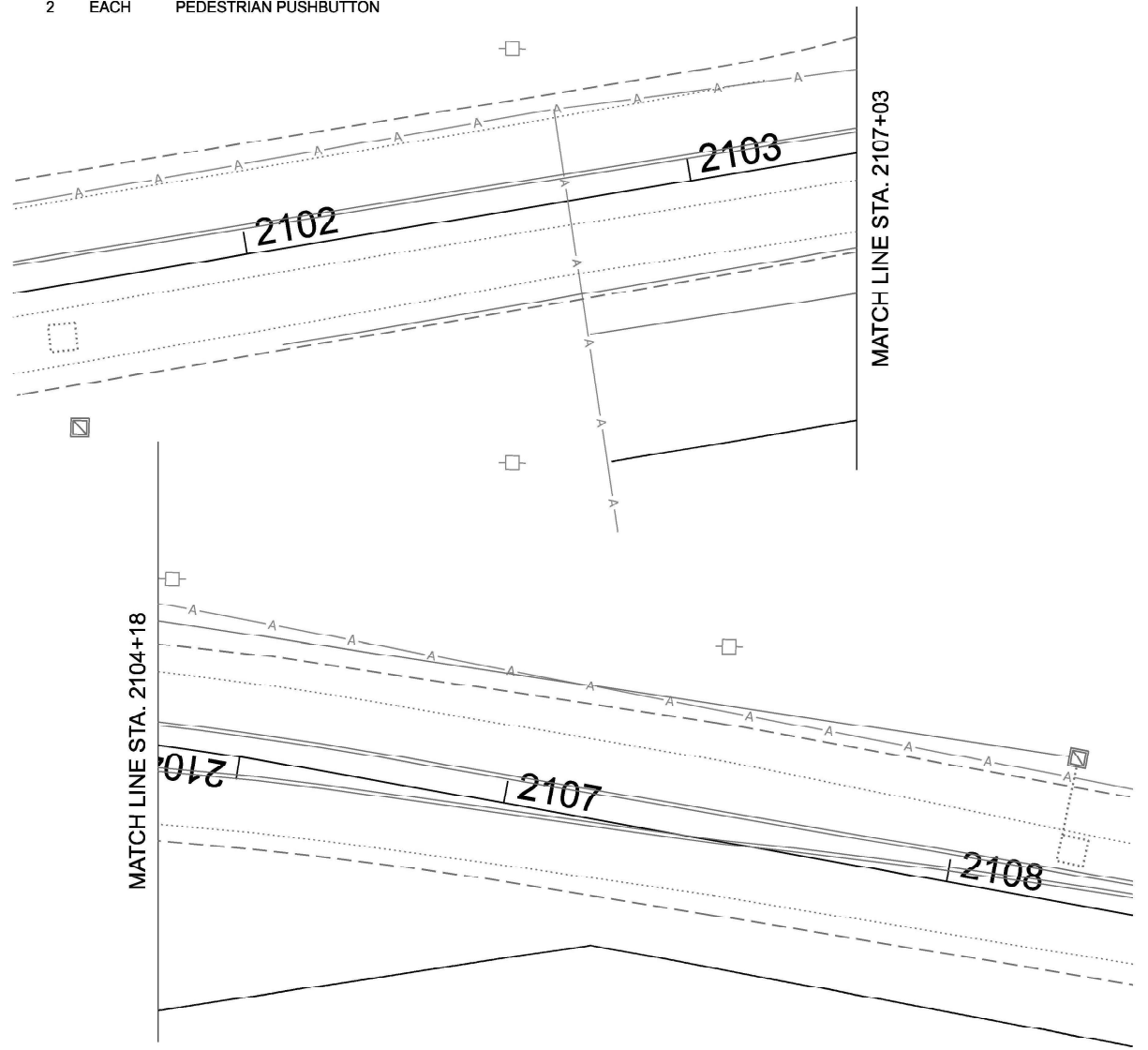
- 2 EACH PEDESTRIAN PUSHBUTTON



NORTHEAST CORNER



SOUTHEAST CORNER



SCALE IN FEET KANE CO - TRANSUITE

TS 12094  
EAGLE 9P

MODEL: D:\atlas\Projects\210 - DOTD - Var Phis IES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\33\_TS 12094 - IL 31 at McLean Blvd\DOTD\984-ak\6.IL.31 at MCLEAN-SCHOOL Plan.dgn



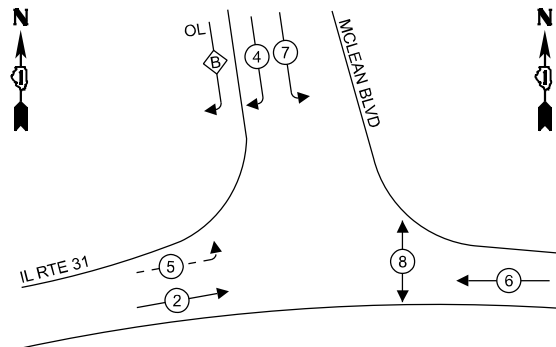
USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

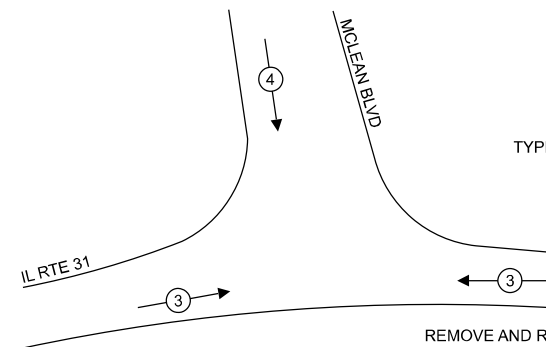
TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 31 AT MCLEAN BOULEVARD  
SCALE: 1"=20' SHEET 1 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	KANE	89	51
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

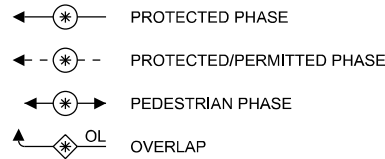
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**NOTE:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
PROGRAMMABLE SIGNALS				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	2	15	30.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 345.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 950.0				

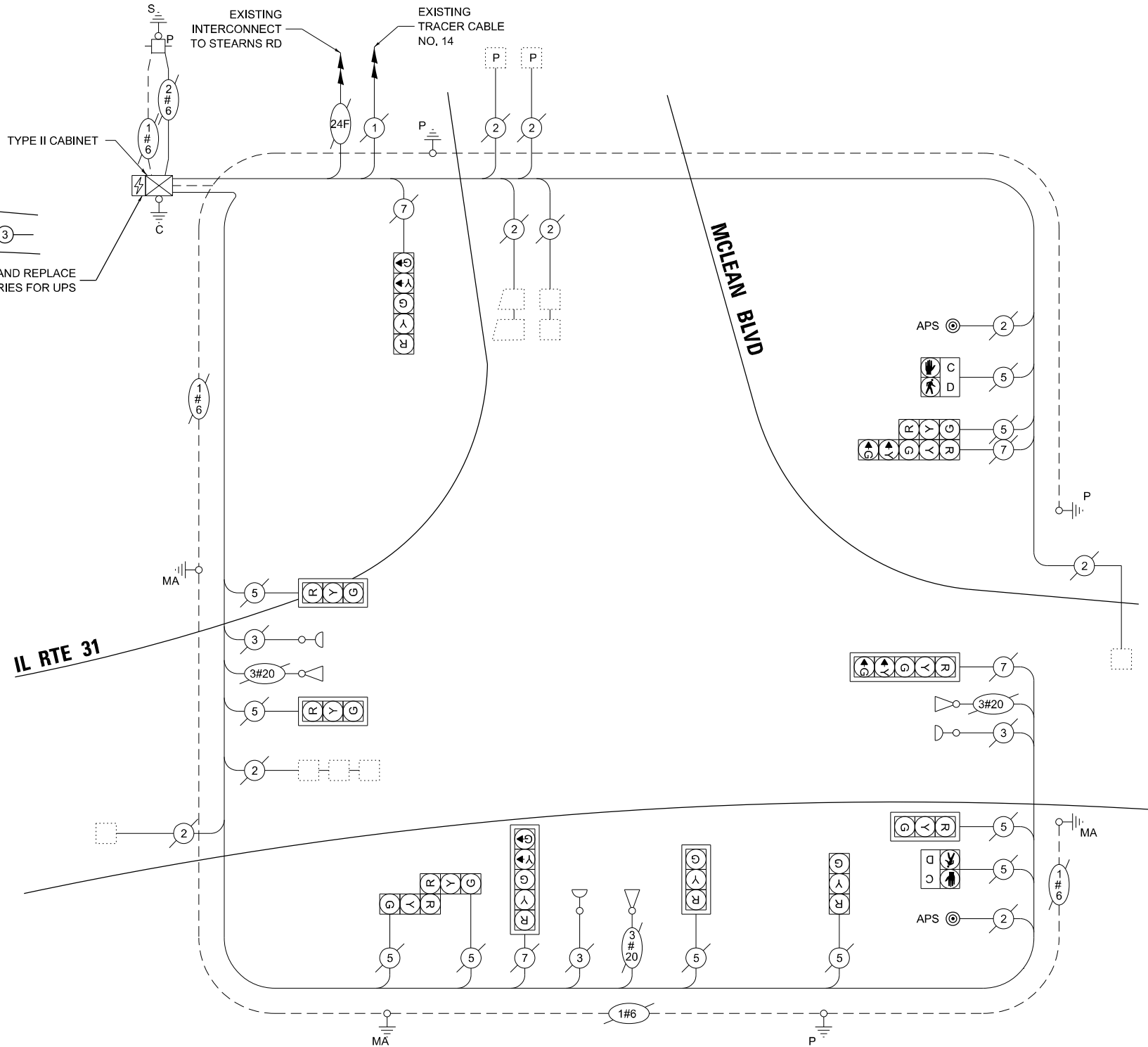
ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 W CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: CASSIE EVANS  
 PHONE: 773-241-0741  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 7897646000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**



MODEL: D:\proj\TS12094-9P\Drawings\TS12094-9P.dwg  
 FILE NAME: S:\proj\ts12094-9p\Drawings\TS12094-9P.dwg  
 PROJECT: TS12094-9P  
 SHEET: 89 OF 92  
 DATE: 7/31/2025



USER NAME = dortones  
 PLOT SCALE = 40,000' = 1" (1/4")  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES**  
**IL ROUTE 31 AT MCLEAN BOULEVARD**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	KANE	89	52
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 12094  
 EAGLE 9P  
 KANE CO - TRANSUITE**



**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

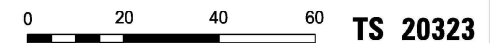
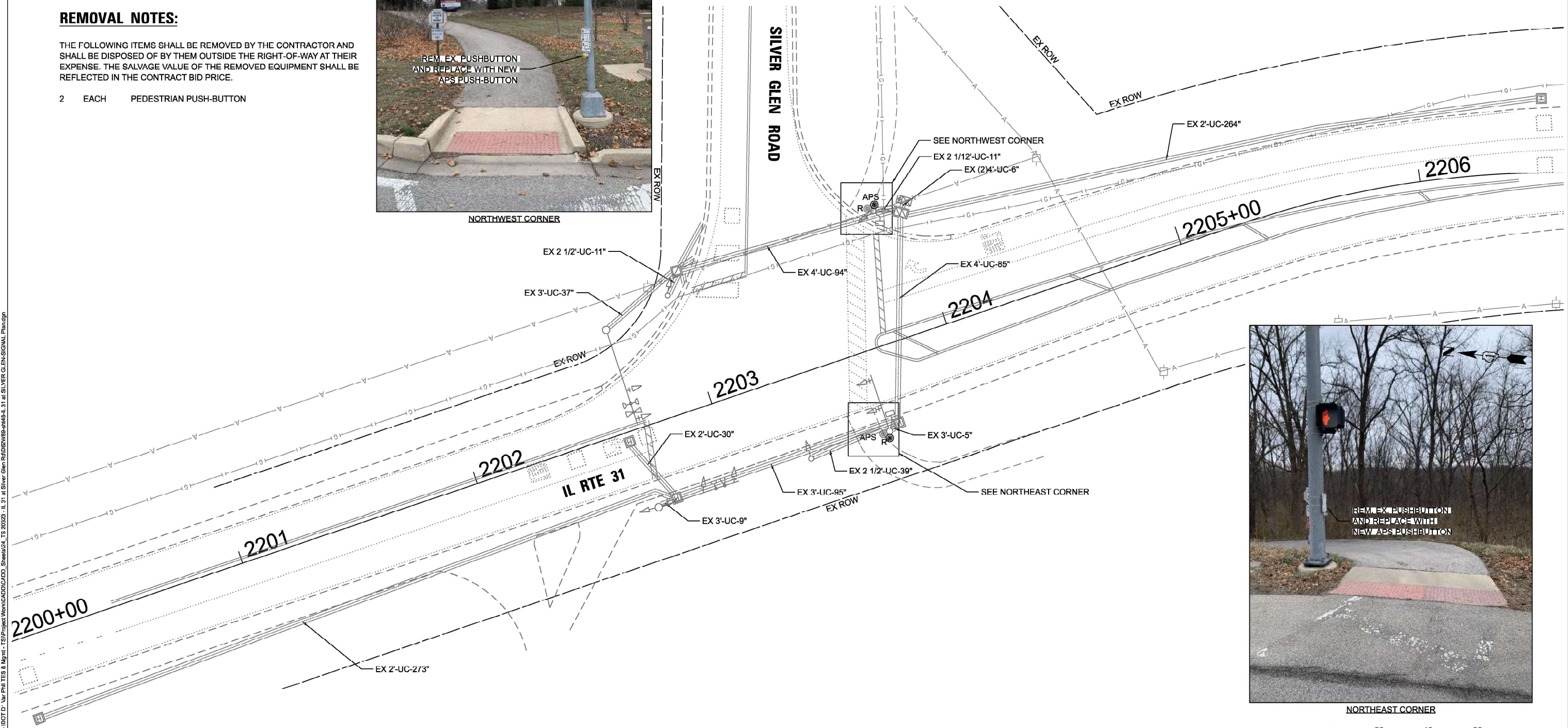
- 2 EACH PEDESTRIAN PUSH-BUTTON



NORTHWEST CORNER



NORTHEAST CORNER



TS 20323

SCALE IN FEET

MODEL: D:\proj\2116 - DCTD - Var Phis TES & Mgmt - TSP\Project Work\CADD\CADD\_Sheets\24 - TS 20323 - 1\_31 at Silver Glen Road\2024\984-TS-20323-1\_31 at Silver Glen Road.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

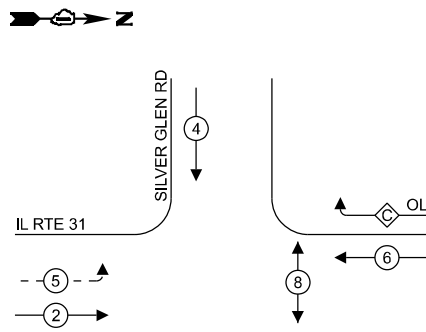
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 31 AT SILVER GLEN ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	KANE	89	53
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

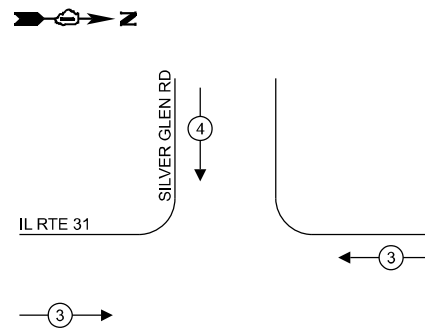
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**RIGHT TURN OVERLAP**

**PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 4	+ 6

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

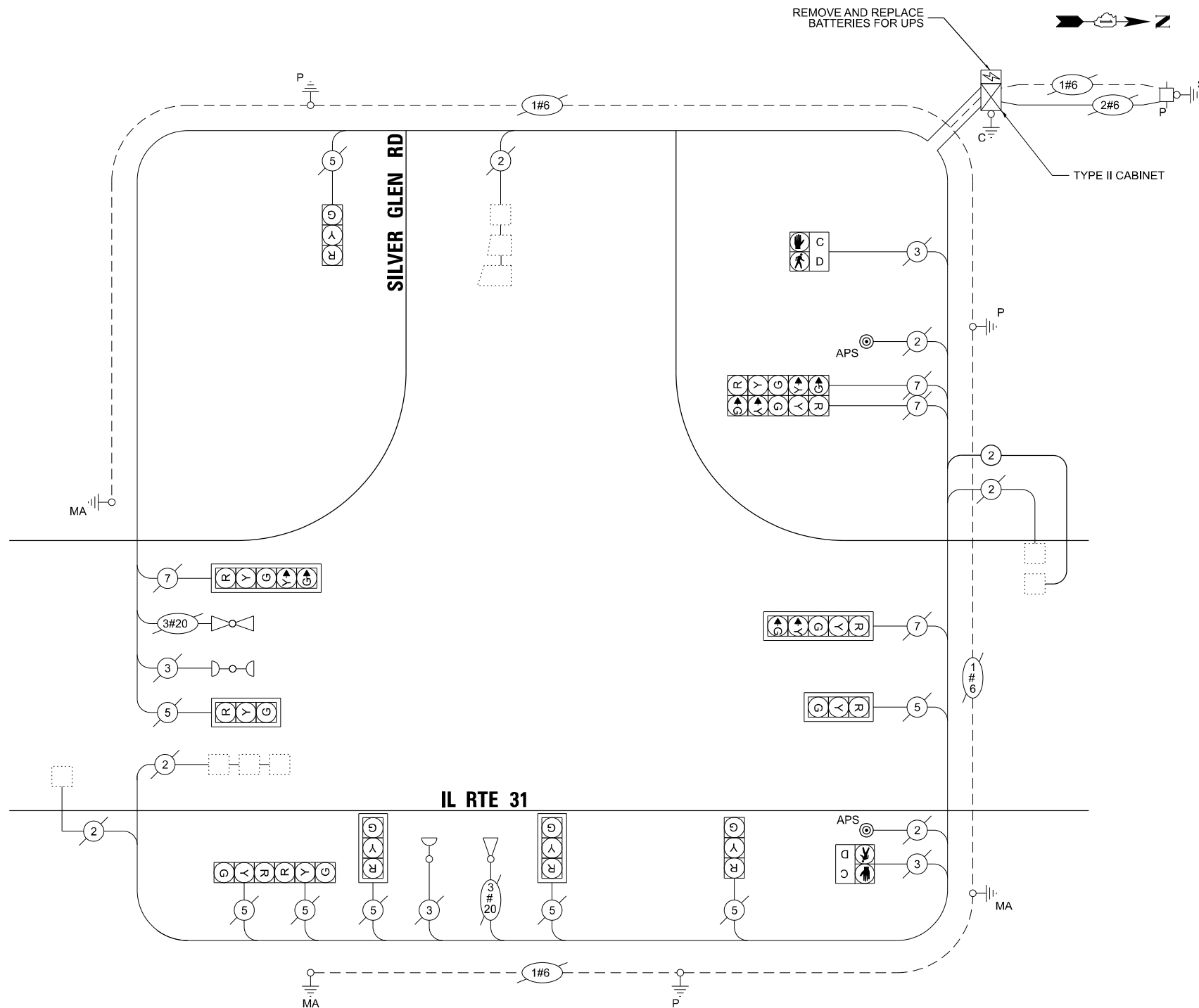
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	2	15	30.0	
MASTER CONTROLLER	1	150	150.0	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 345.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 950.0				
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 W CENTER COURT SCHAUMBURG, IL 60196-1096				
ENERGY SUPPLY: CONTACT: CASSIE EVANS PHONE: 773-241-0741 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: - 7897646000				

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	294
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
IL ROUTE 31 AT SILVER GLEN ROAD

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	KANE	89	54
CONTRACT NO. 62W89				

TS 20323

MODEL: D:\ch4\ ATLAS\ 2216 - DOT D1 - Ver FRII TES & Mmm - TSI\Project\Work\CADD\CADD\_Sheets\24 - TS 20323 - 1 - 31 - IL Silver Glen Road\249856-1\4-11\_31 - SILVER GLEN RD\Cable Plan.dgn

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

USER NAME	= dbriones
PLOT SCALE	= 40,000'"/in
PLOT DATE	= 7/31/2025

DESIGNED	- DLB	REVISED	-
DRAWN	- JK	REVISED	-
CHECKED	- DB	REVISED	-
DATE	- 07/31/2025	REVISED	-

ILLINOIS FED. AID PROJECT

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. 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.

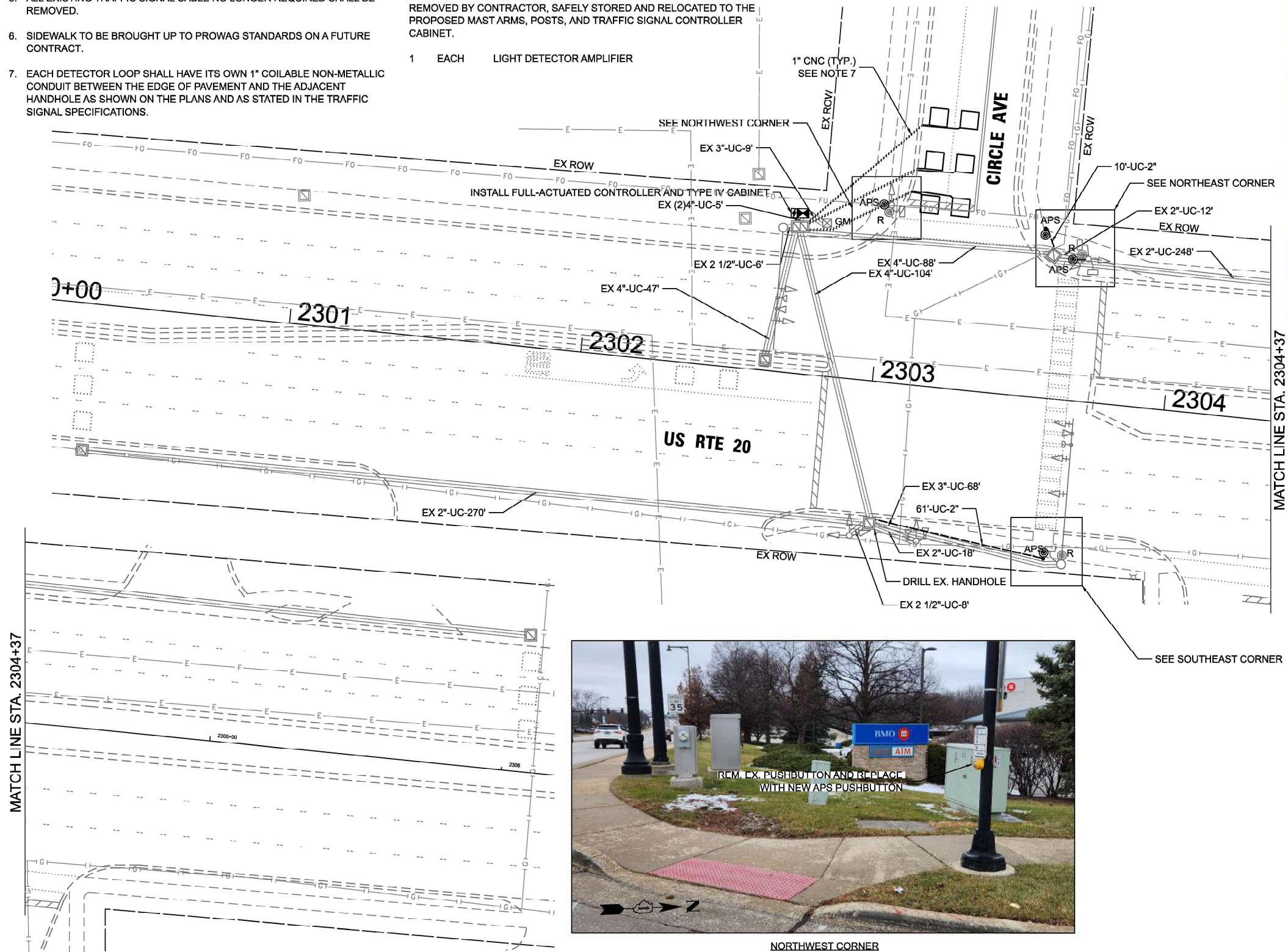
**REMOVAL AND RELOCATION NOTES:**

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 (ASC/2C-2100) AND CABINET (TS1) COMPLETE
- 3 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH UPS

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

- 1 EACH LIGHT DETECTOR AMPLIFIER



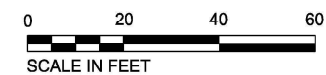
NORTHEAST CORNER



SOUTHEAST CORNER



NORTHWEST CORNER



TS 4605  
ECON 47

MODEL: D:\atlas\Projects\2116 - DOTD - Var Phis TES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\25 - US 20 Lane St at Circle Ave\2504R1P-115D - US 20 at Circle Ave SIGNAL Plan.dgn



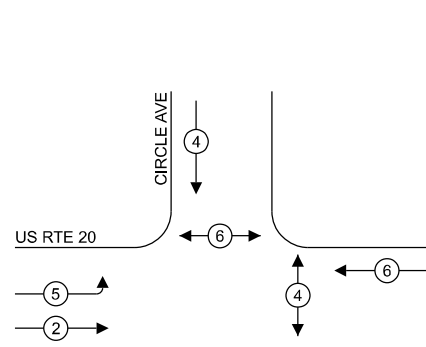
USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN	
US ROUTE 20 AT CIRCLE AVENUE	
SCALE: 1"=20'	SHEET 1 OF 20 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	DUPAGE	89	55
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

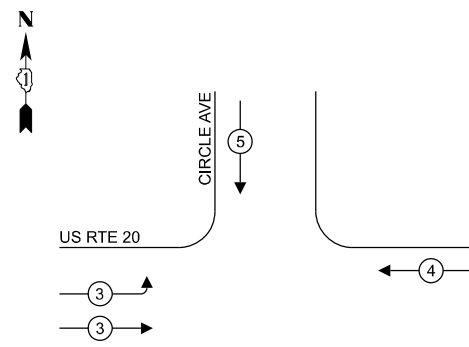
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ⊙\* — PROTECTED PHASE
- ⊙\* — PROTECTED/PERMITTED PHASE
- ⊙\* — PEDESTRIAN PHASE
- ⊙\* OL — OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

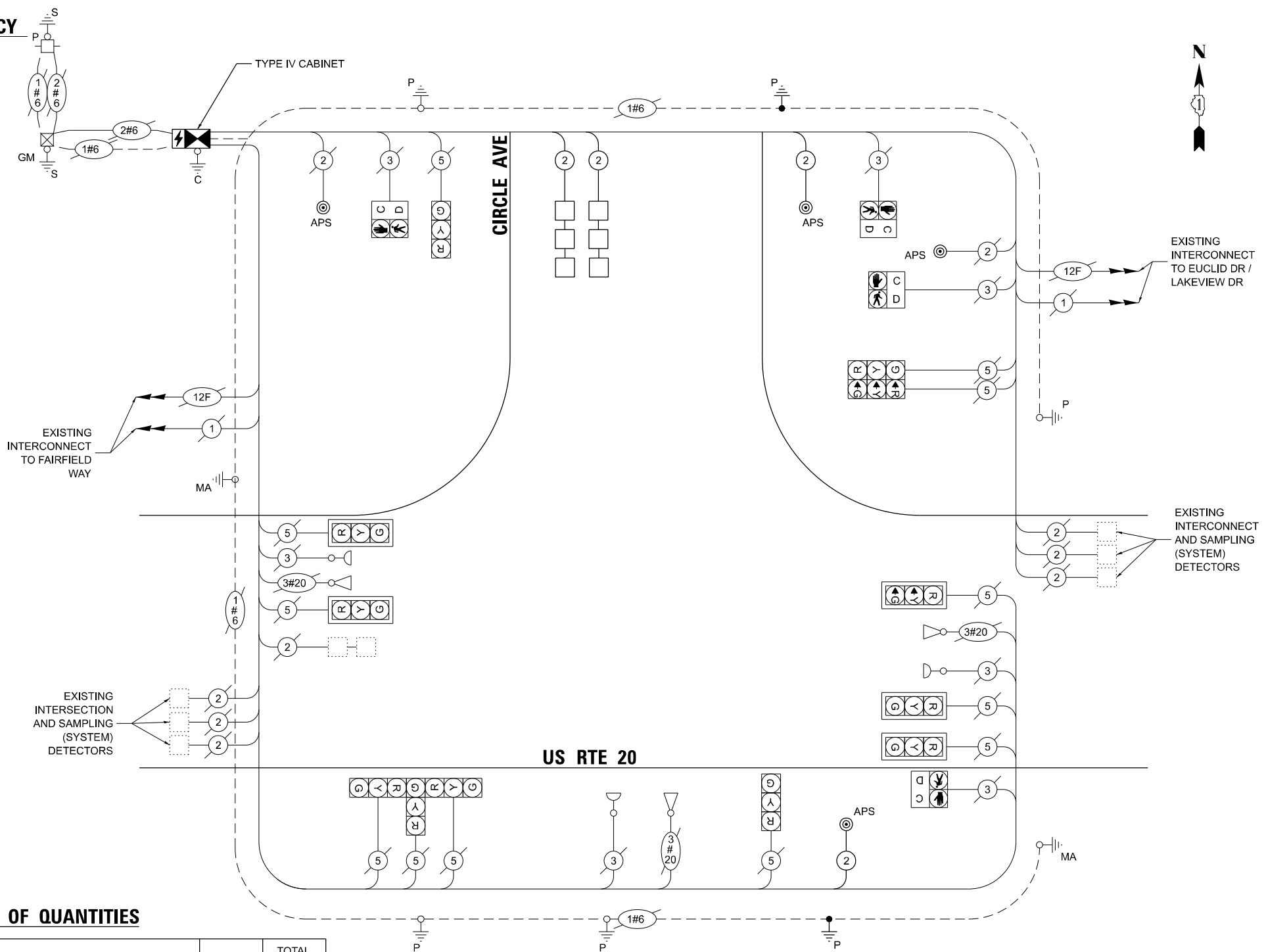
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	12	11	132.0
	4 - SECTION	-	14	-
	5 - SECTION	-	13	-
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	4	15	60.0	
MASTER CONTROLLER	1	150	150.0	
UPS	-	100	-	
DETECTION RADAR	1	25	25.0	
VIDEO	-	20	-	
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING = 367.0</b>				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING = 972.0</b>				

ENERGY COSTS TO:  
**VILLAGE OF BLOOMINGDALE**  
 201 S BLOOMINGDALE RD  
 BLOOMINGDALE, IL 60108

ENERGY SUPPLY: CONTACT: ANTONIO RIOS  
 PHONE: 630-696-6855  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 0687629000

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	71
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	321
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	198
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	112
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	194
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	180
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
**US ROUTE 20 AT CIRCLE AVENUE**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	DUPAGE	89	56
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

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 FILE NAME: S:\proj\2024-964-TS\proj\2024-964-TS\100-11-CIRCLE-CAVE-PLAN.dgn

**ATLAS**  
 ATLAS TECHNICAL CONSULTANTS, LLC  
 100 S. WACKER DRIVE, SUITE 400  
 CHICAGO, IL 60606

USER NAME = dlorion  
 PLOT SCALE = 40,000"=1 in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**TS 4605**  
**ECON 47**



**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

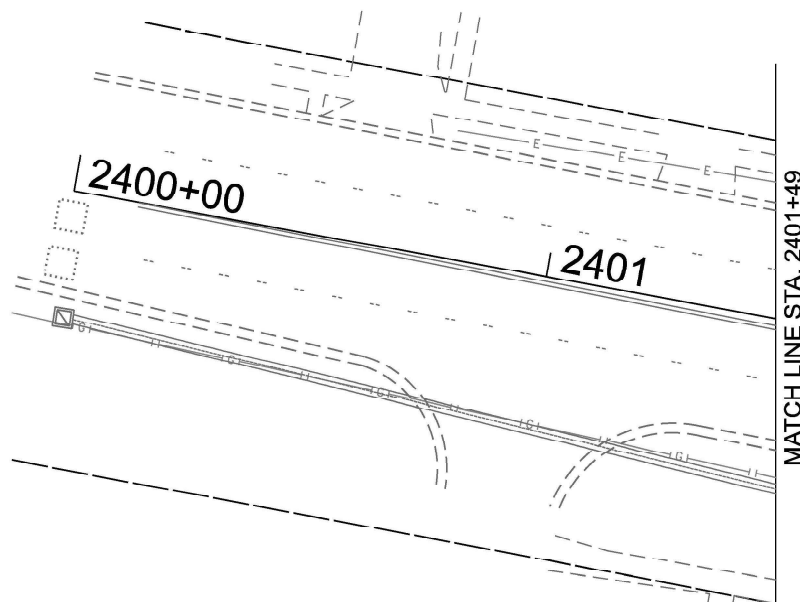
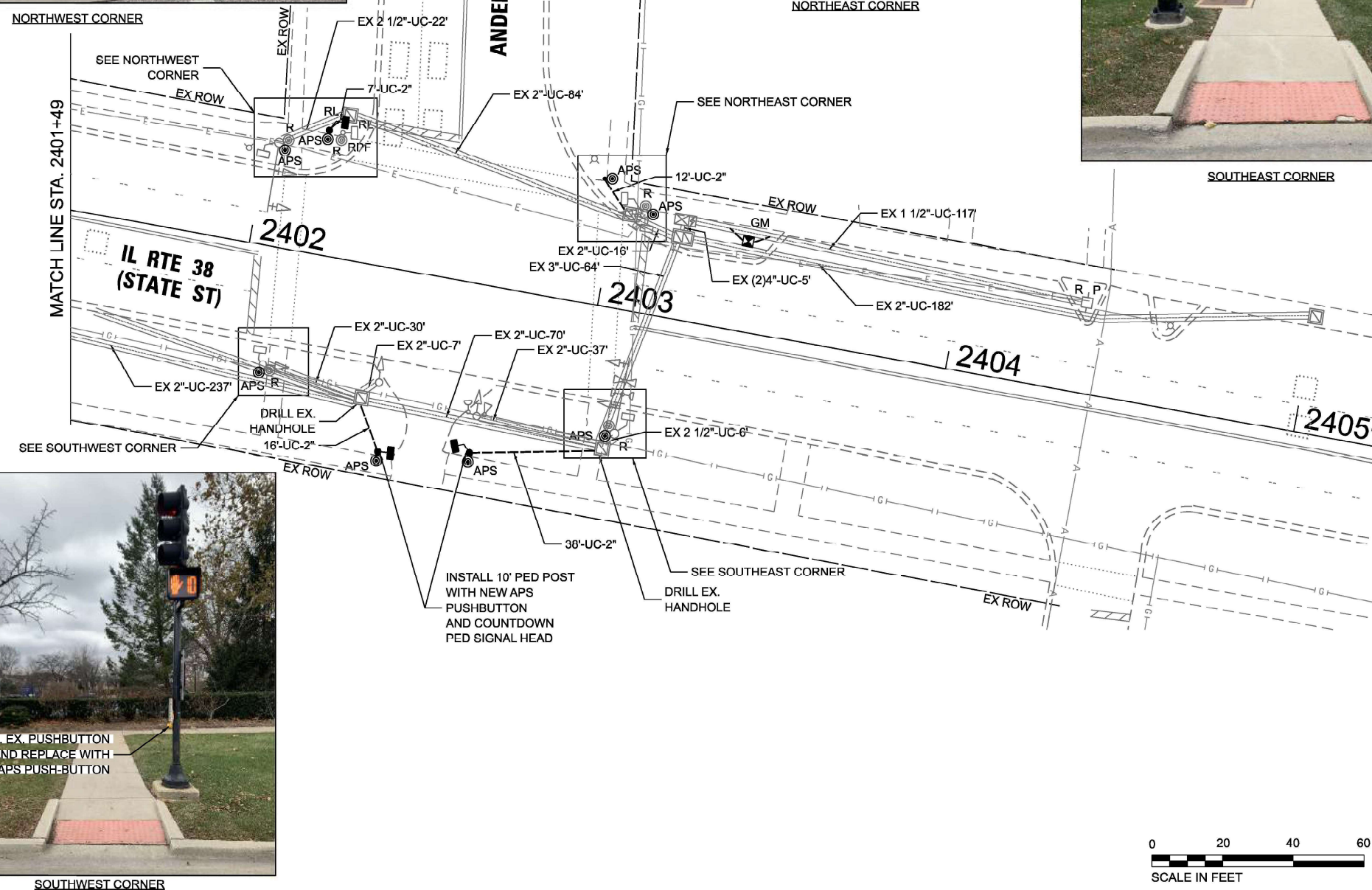
**REMOVAL AND RELOCATION NOTES:**

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.

- 5 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH PEDESTRIAN POST
- 1 EACH SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL EQUIPMENT INDICATED IN THE PLAN.

- 1 EACH PEDESTRIAN SIGNAL HEAD



TS 10955  
EAGLE 2G

MODEL: D:\atlas\Projects\2116 - DCTD - Var Phil TES & Mgmt - TSP\Project\Work\CD\CD\CD\_Sheets\38\_TS 10955 - 1\_38 at Anderson Blvd\2116-0824\_38 at Anderson Blvd.dwg



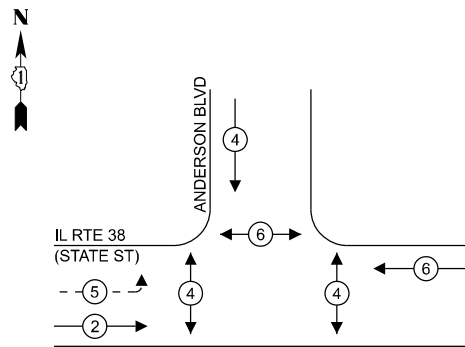
USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 38 (STATE STREET) AT ANDERSON BOULEVARD  
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	KANE	89	57
			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				

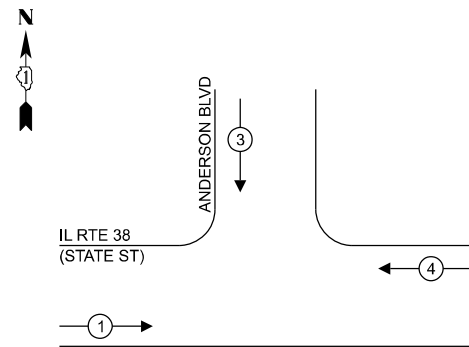
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ⊙\* — PROTECTED PHASE
- ⊙\* — PROTECTED/PERMITTED PHASE
- ⊙\* — PEDESTRIAN PHASE
- ⊙\* OL — OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

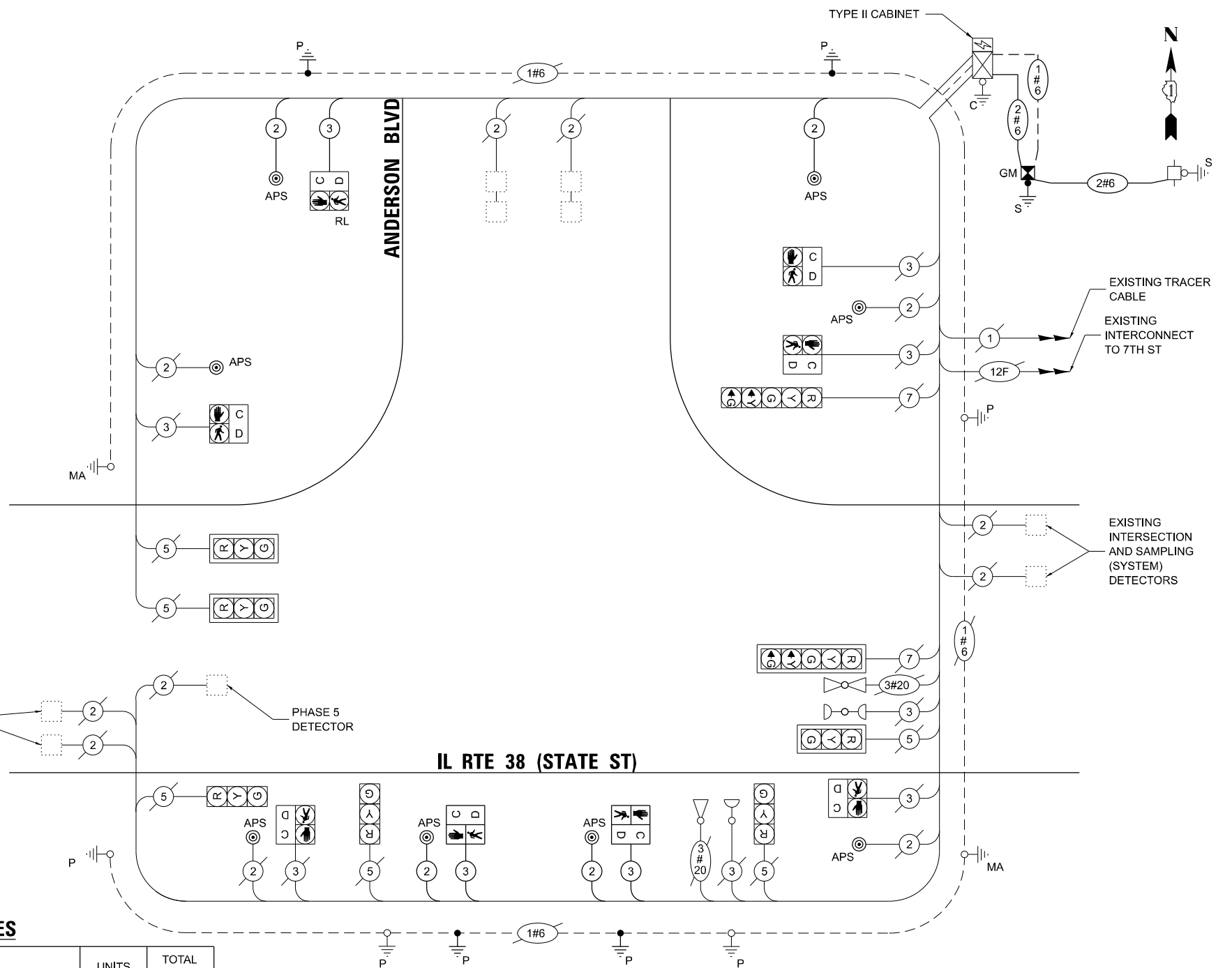
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 3 - SECTION	6	11	66.0
4 - SECTION	-	14	-
5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>			
3 - SECTION	-	22	-
4 - SECTION	-	32	-
5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	6	15	90.0
MASTER CONTROLLER	1	150	150.0
UPS	-	100	-
UPS CHARGING	1	25	25.0
DETECTION RADAR	-	20	-
VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING = 357.0</b>			
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING = 962.0</b>			

ENERGY COSTS TO:  
CITY OF GENEVA  
22 S FIRST STREET  
GENEVA, IL 60134

ENERGY SUPPLY: CONTACT: PUBLIC WORKS - ELECTRIC DIVISION  
PHONE: 630-424-5704  
COMPANY: CITY OF GENEVA  
ACCOUNT NUMBER: -

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	85
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	560
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	531
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	31
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	169
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	120
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
IL ROUTE 38 (STATE STREET) AT ANDERSON BOULEVARD

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	KANE	89	58
CONTRACT NO. 62W89				

ILLINOIS FED. AID PROJECT

MODEL: D:\ch\1... FILE NAME: S:\proj\2216-DDT.D1\_Ver.FIN.TES & Mgr-M-TSIP\proj\Work\CADD\CADD\_Sheets\28\_TS\_10955-1\_38 at Anderson Blvd\28W89-NSA-IL\_38 at Anderson Blvd.dwg



USER NAME	= dlorines	DESIGNED	- DLB	REVISED	-
PLOT SCALE	= 40,000'"/in.	DRAWN	- JK	REVISED	-
PLOT DATE	= 7/31/2025	CHECKED	- DB	REVISED	-
		DATE	- 07/31/2025	REVISED	-

TS 10955  
EAGLE 2G

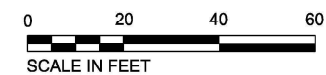
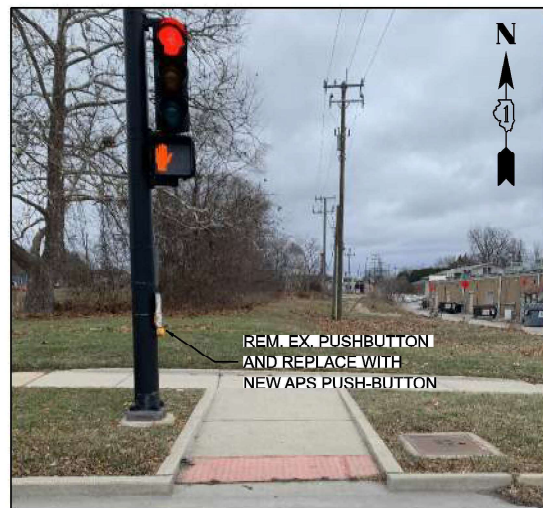
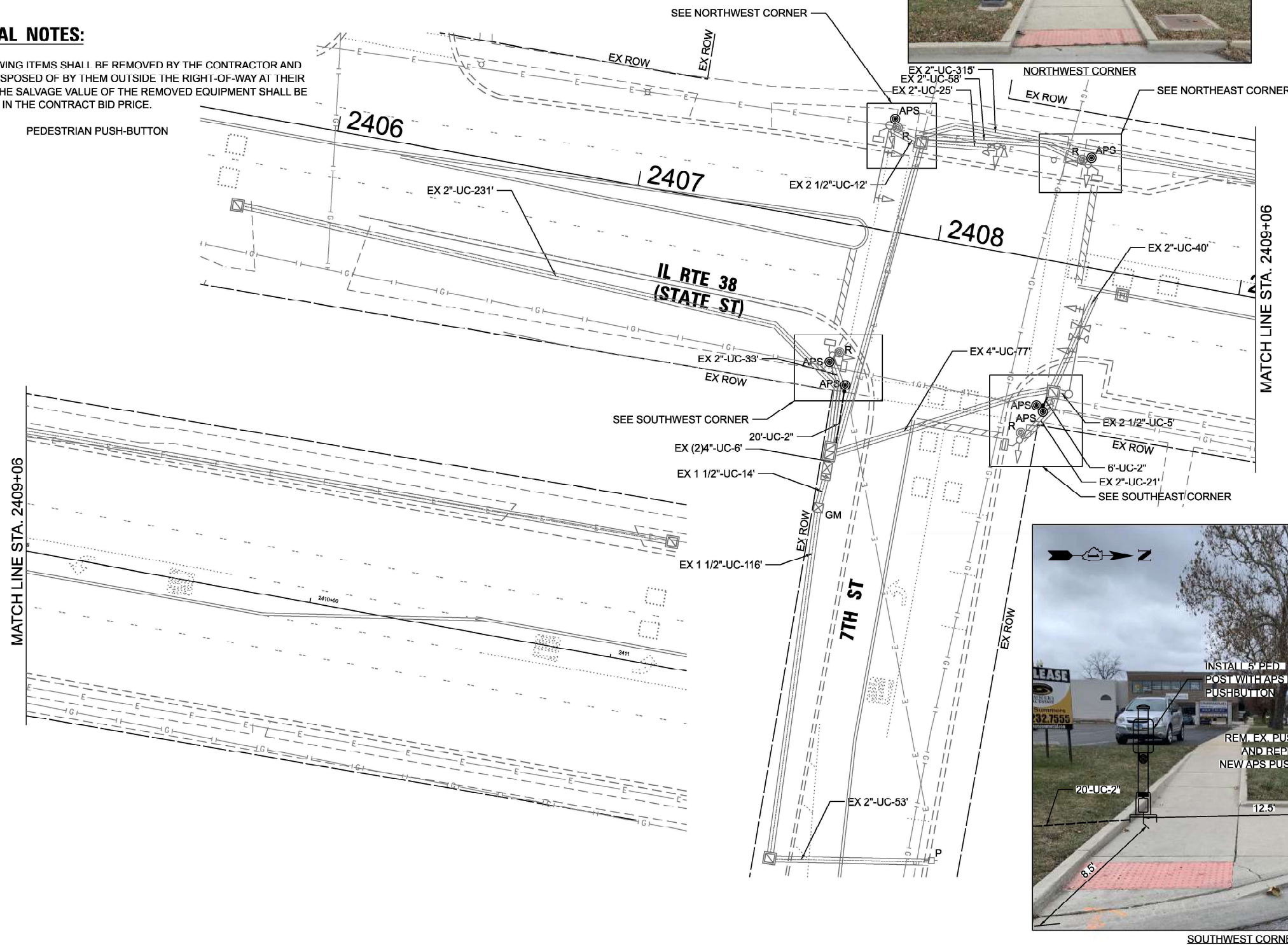
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

- 4 EACH PEDESTRIAN PUSH-BUTTON



TS 10952  
EAGLE 2G

MODEL: D:\atlas\Projects\2116 - DOTD - Var Phis TES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\27\_TS 10952 - IL 38 at 7th SID\2116-04-15-IL 38 at 7th-SIGNAL Plan.dgn  
FILE NAME: S:\Projects\2116 - DOTD - Var Phis TES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\27\_TS 10952 - IL 38 at 7th SID\2116-04-15-IL 38 at 7th-SIGNAL Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
DRAWN - JK	REVISOR -	
PLOT SCALE = 40,000' / 1"	CHECKED - DD	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

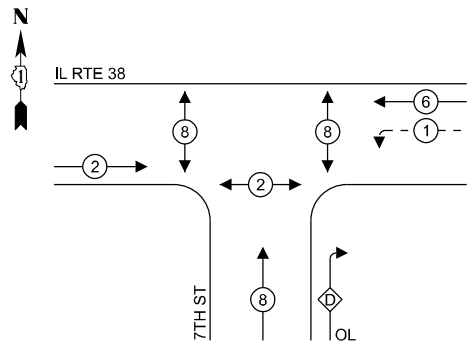
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 38 (STATE STREET) AT 7TH STREET**

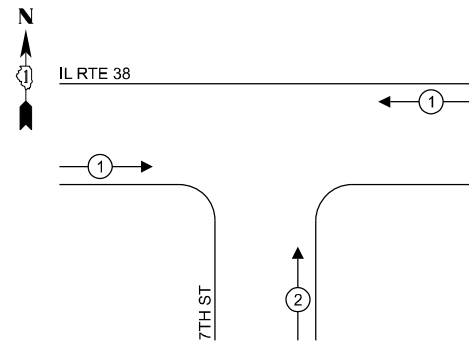
SCALE: 1"=20'    SHEET 1 OF 2 SHEETS    STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	KANE	89	59
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	8	1

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	6	11	66.0
	4 - SECTION	-	14	-
	5 - SECTION	4	13	52.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	6	15	90.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 383.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 988.0				

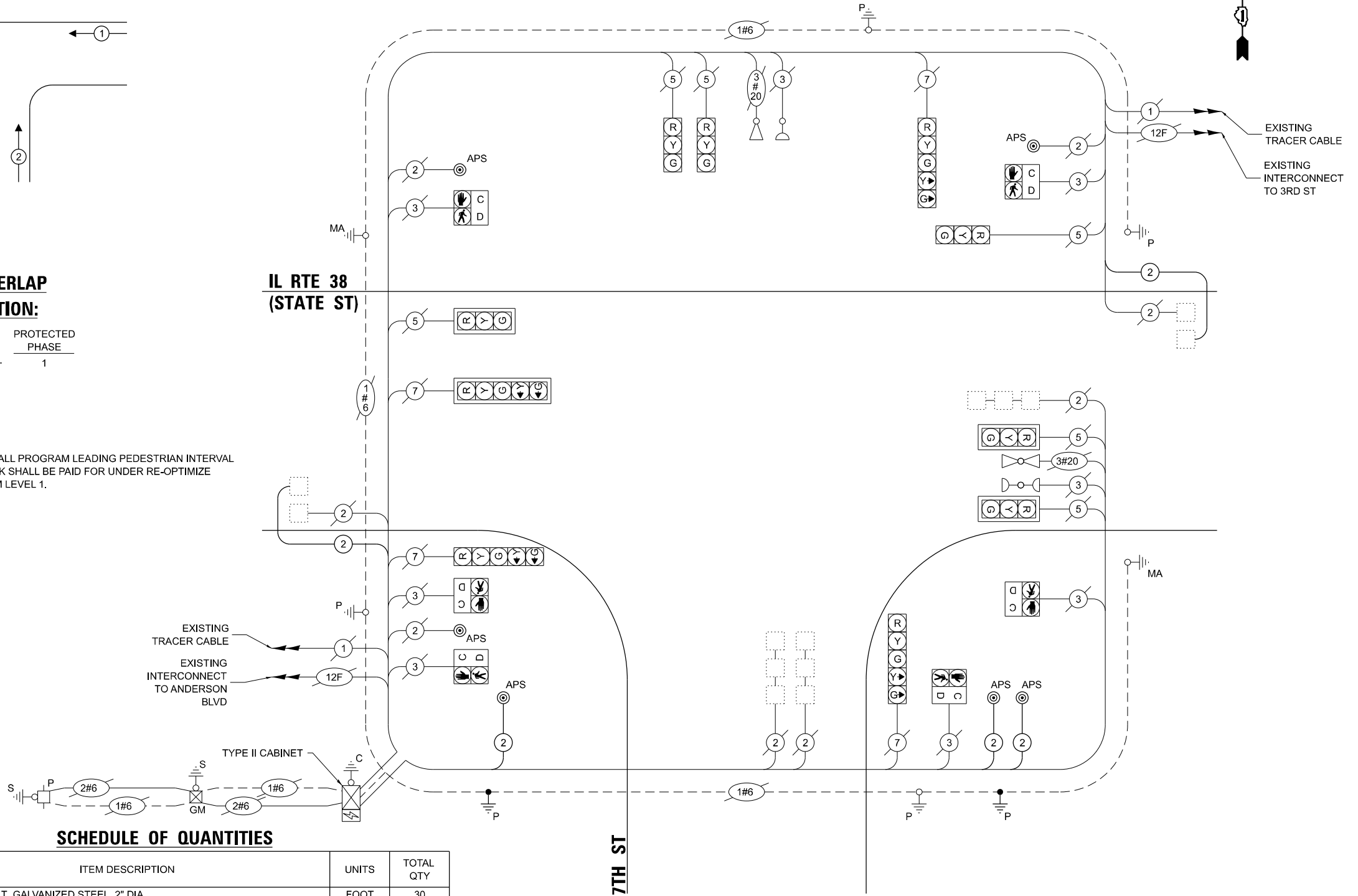
ENERGY COSTS TO:  
**CITY OF GENEVA**  
 22 S FIRST STREET  
 GENEVA, IL 60134

ENERGY SUPPLY: CONTACT: PUBLIC WORKS - ELECTRIC DIVISION  
 PHONE: 630-232-1503  
 COMPANY: CITY OF GENEVA  
 ACCOUNT NUMBER: -

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	30
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	191
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	726
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	78
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	2
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**IL RTE 38 (STATE ST)**



**CABLE PLAN (NOT TO SCALE)**

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES IL RTE 38 (STATE ST) AT 7TH ST**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	KANE	89	60

CONTRACT NO. 62W89  
 ILLINOIS FED. AID PROJECT

**TS 10952 EAGLE 2G**

MODEL: D:\proj\11\110522\110522.dwg, Ver: P1111ES & M1111 - TSI\proj\11\110522\110522.dwg, TS 10952 - 11\_38 at 7th St\110522\110522.dwg, 38 at 7th St\110522\110522.dwg



USER NAME = dlorion  
 DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025  
 PLOT SCALE = 40,000"/1 in.  
 PLOT DATE = 7/31/2025  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

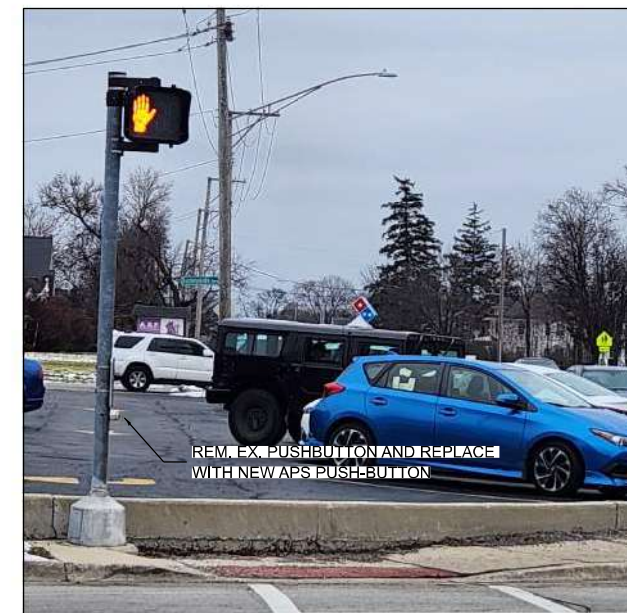
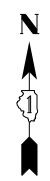
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL NOTES:**

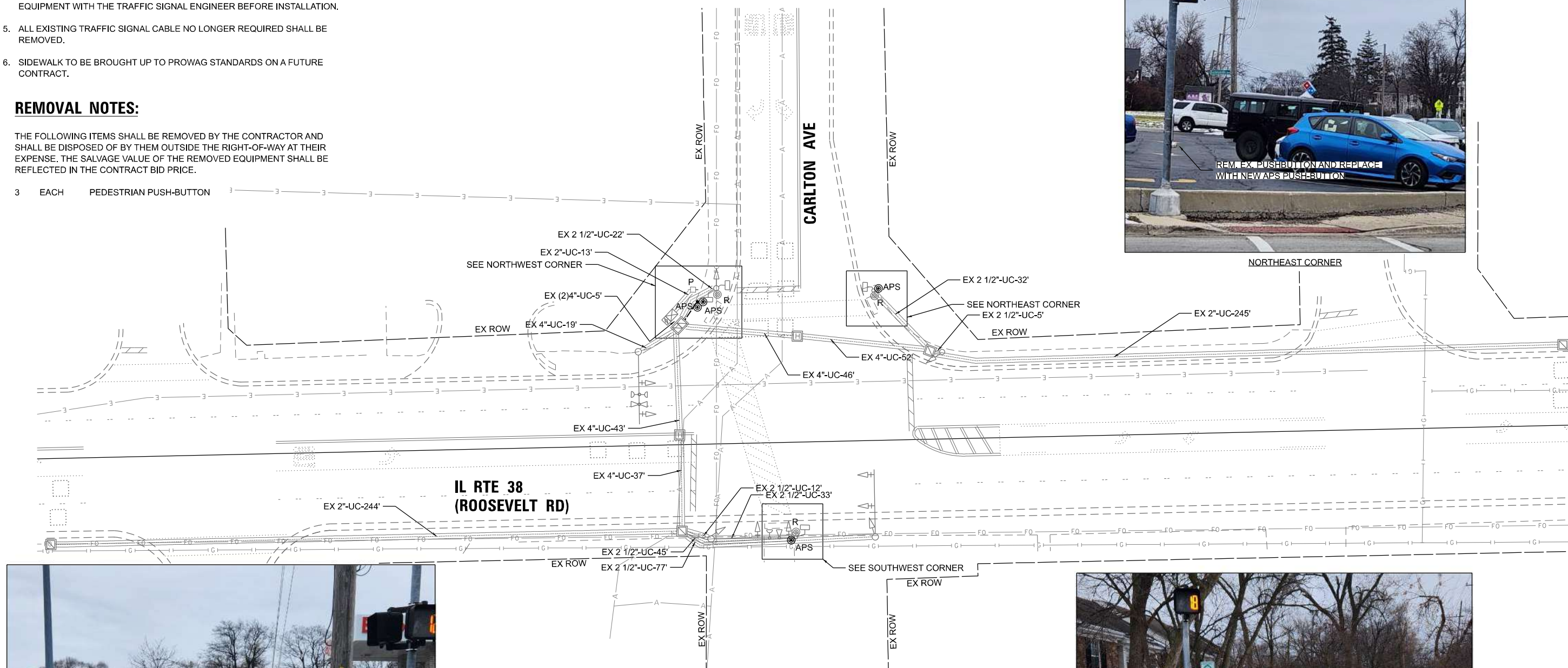
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH PEDESTRIAN PUSH-BUTTON



REM. EX. PUSHBUTTON AND REPLACE WITH NEW APS PUSH-BUTTON

NORTHEAST CORNER

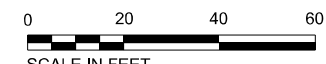


NORTHWEST CORNER



REM. EX. PUSHBUTTON AND REPLACE WITH NEW APS PUSHBUTTON

SOUTHWEST CORNER



SCALE IN FEET

**TS 15255  
ECON 40**

MODEL: D:\p1\16 - DOT D1 - Ver P111 TES & Mgmt - TSP\Project Work\CADD\CADD\_Sheets\28\_IL 15255 - IL 38 (Roosevelt Rd) at Carlton Ave\DOT2116-15255-IL-38 at Carlton Ave\DOT2116-15255-IL-38.dwg



USER NAME = dbriones	DESIGNED - DLB	REVISED -
DRAWN - JK	REVISOR -	
PLOT SCALE = 40,000' / 1" =	CHECKED - DB	REVISOR -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISOR -

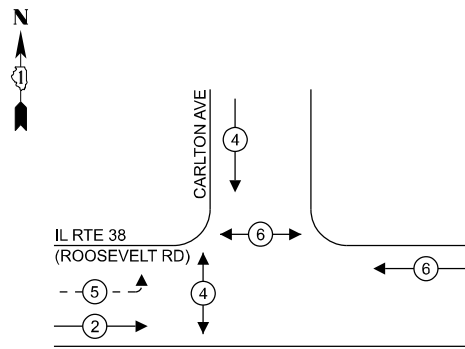
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 38 (ROOSEVELT ROAD) AT CARLTON AVENUE**

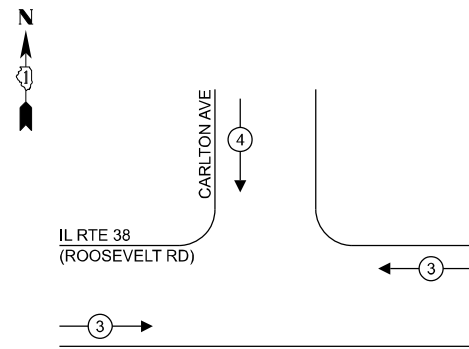
SCALE: 1"=20'    SHEET 1 OF 20 SHEETS    STA.    TO STA.

F.A.U. RTE. XXX	SECTION 2024-964-TS	COUNTY DUPAGE	TOTAL SHEETS 89	SHEET NO. 61
CONTRACT NO. 62W89				
ILLINOIS		FED. AID PROJECT		

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

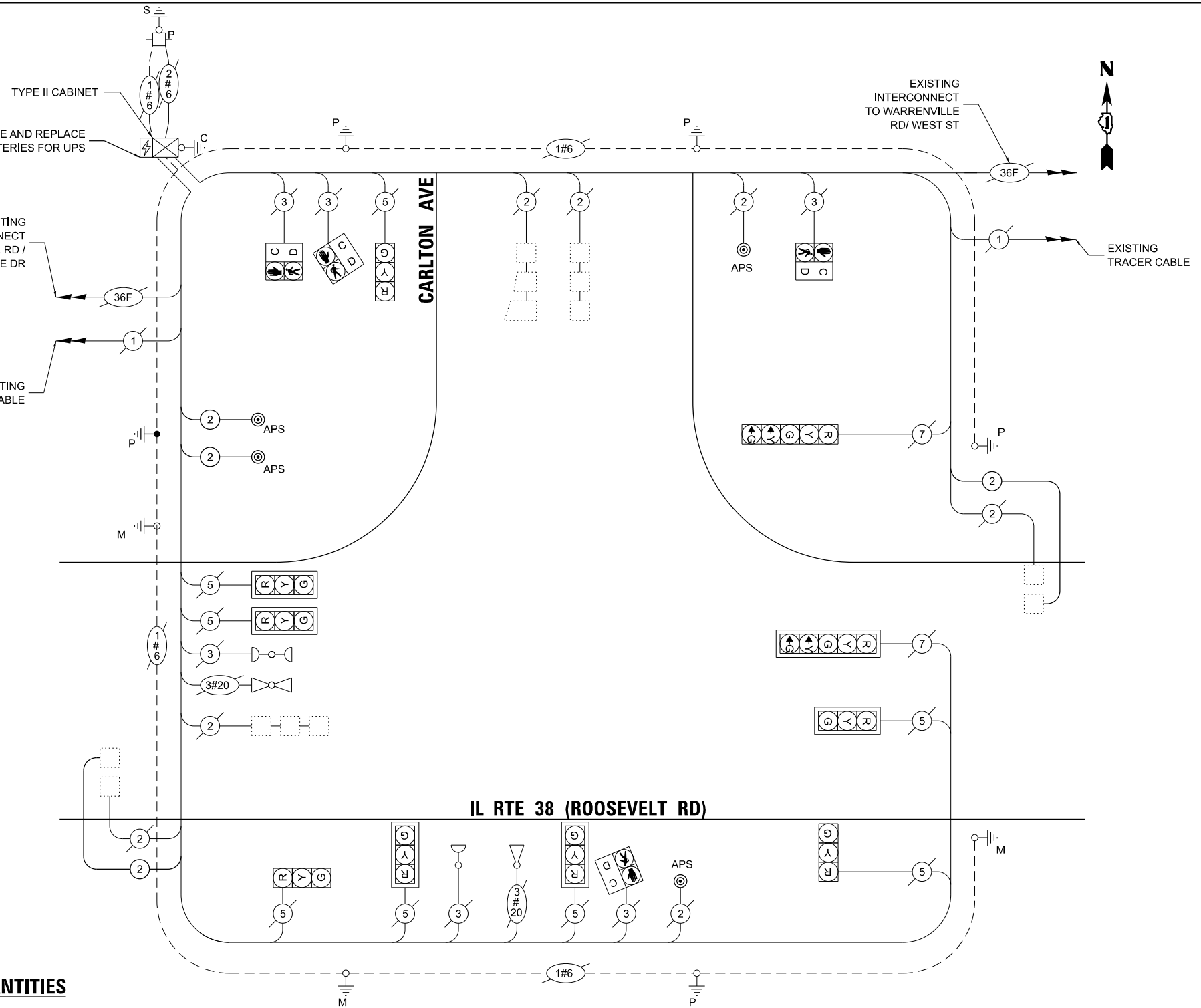
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL CONTROLLER	4	15	60.0	
MASTER CONTROLLER	1	150	150.0	
UPS	-	100	-	
DETECTION RADAR	1	25	25.0	
DETECTION VIDEO	-	20	-	
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING =</b>		<b>349.0</b>		
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING =</b>		<b>954.0</b>		

ENERGY COSTS TO:  
CITY OF WHEATON  
303 W WESLEY ST  
WHAETON, IL 60187-0727

ENERGY SUPPLY: CONTACT: ANTONIO RIOS  
PHONE: 630-696-6855  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: - 5845811222

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	12
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	97
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	744
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	78
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	124
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
IL ROUTE 38 (ROOSEVELT ROAD) AT CARLTON AVENUE

SCALE: N.T.S. SHEET 2 OF 20 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	DUPAGE	89	62
CONTRACT NO. 62W89				

ILLINOIS FED. AID PROJECT

TS 15255  
ECON 40

MODEL: D:\proj\16 - DOT\1 - Ver FRI\TES & Mgmt - TSIP\proj\Work\CADD\CADD\_Sheets\28 - TS 15255 - 4 - 38 (Roosevelt Rd) at Carlton Ave\DOT\15255-4-38 at CARLTON RD\Cable Plan.dgn

**ATLAS**  
ATLAS TECHNICAL CONSULTANTS, LLC  
100 S. WACKER DRIVE, SUITE 400  
CHICAGO, IL 60606

USER NAME = dloriones  
PLOT SCALE = 40,000''/in.  
PLOT DATE = 7/31/2025

DESIGNED - DLB  
DRAWN - JK  
CHECKED - DB  
DATE - 07/31/2025

REVISED -  
REVISED -  
REVISED -  
REVISED -

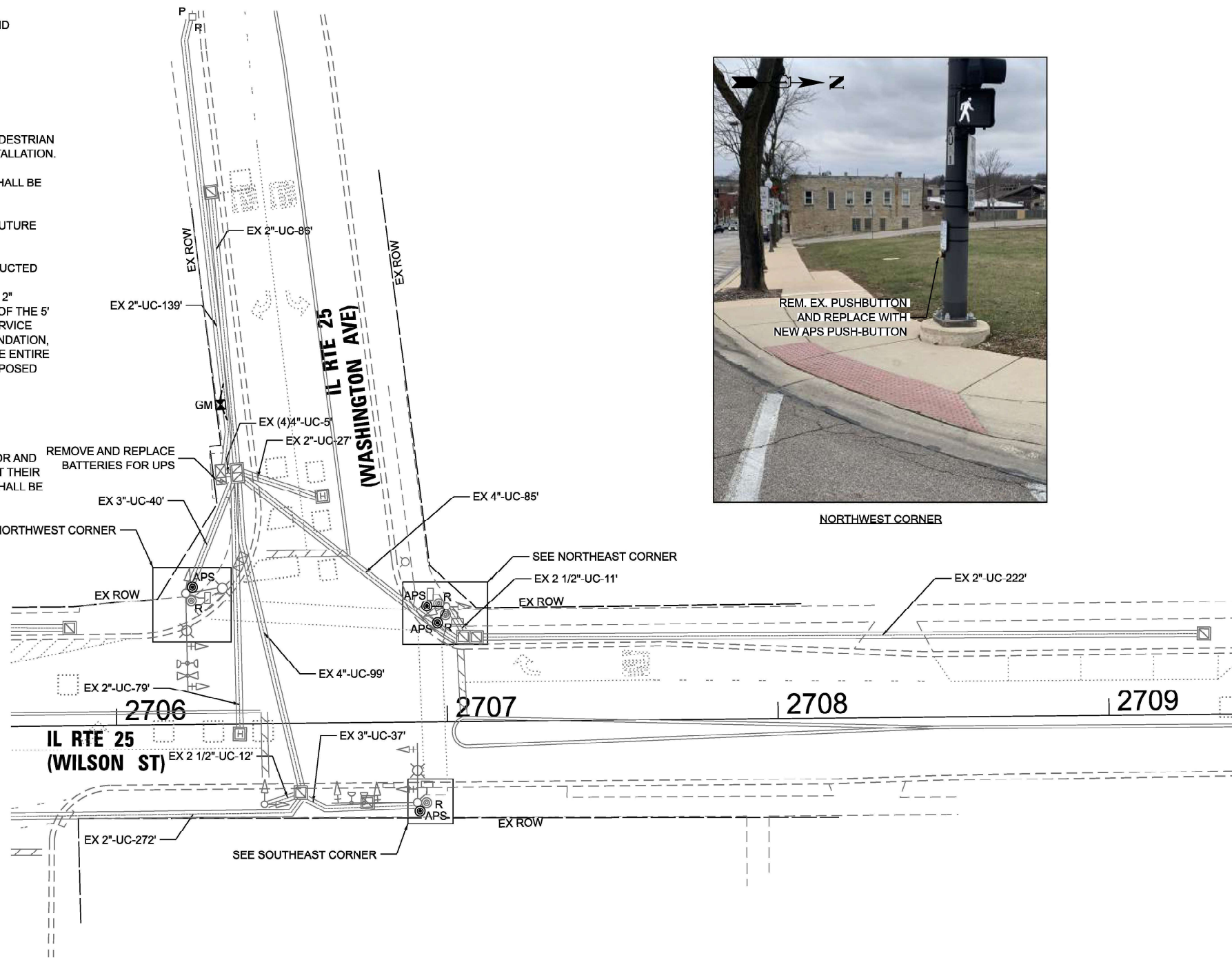
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**REMOVAL 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.

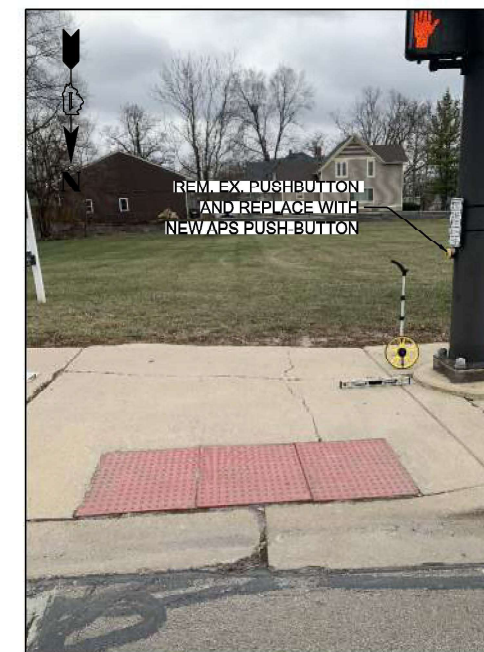
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH SERVICE INSTALLATION



NORTHWEST CORNER



NORTHEAST CORNER



SOUTHEAST CORNER



TS 785  
ECON 26

MODEL: D:\atlas\Projects\216 - DOTD - Var Phis TES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\25 - IL 25 (Washington) at Wilson - Etab\25785-26-25-IL-25 at WILSON\SIGNAL\_Plan.dgn



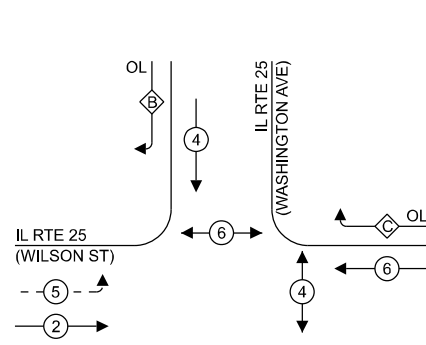
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	DRAWN - JK	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - DD	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 25 (WILSON STREET) AT IL ROUTE 25 (WASHINGTON AVENUE)  
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	KANE	89	63
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

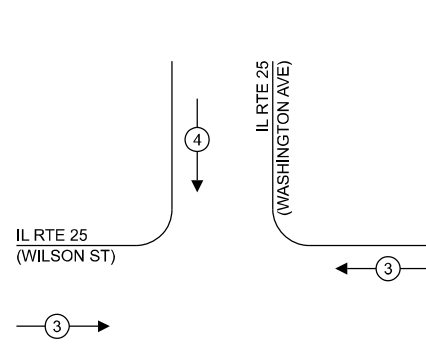
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ OL — OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 4	+ 6

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	5	11
	4 - SECTION	-	14
	5 - SECTION	6	13
			78.0
<b>PROGRAMMABLE SIGNALS</b>			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
<b>PED. SIGNAL</b>			
CONTROLLER	4	15	60.0
MASTER CONTROLLER	1	150	150.0
UPS	1	25	25.0
DETECTION	RADAR	-	20
	VIDEO	-	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
<b>TOTAL UPS SIZING =</b>		<b>368.0</b>	
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
<b>TOTAL SERVICE WIRE SIZING =</b>		<b>973.0</b>	

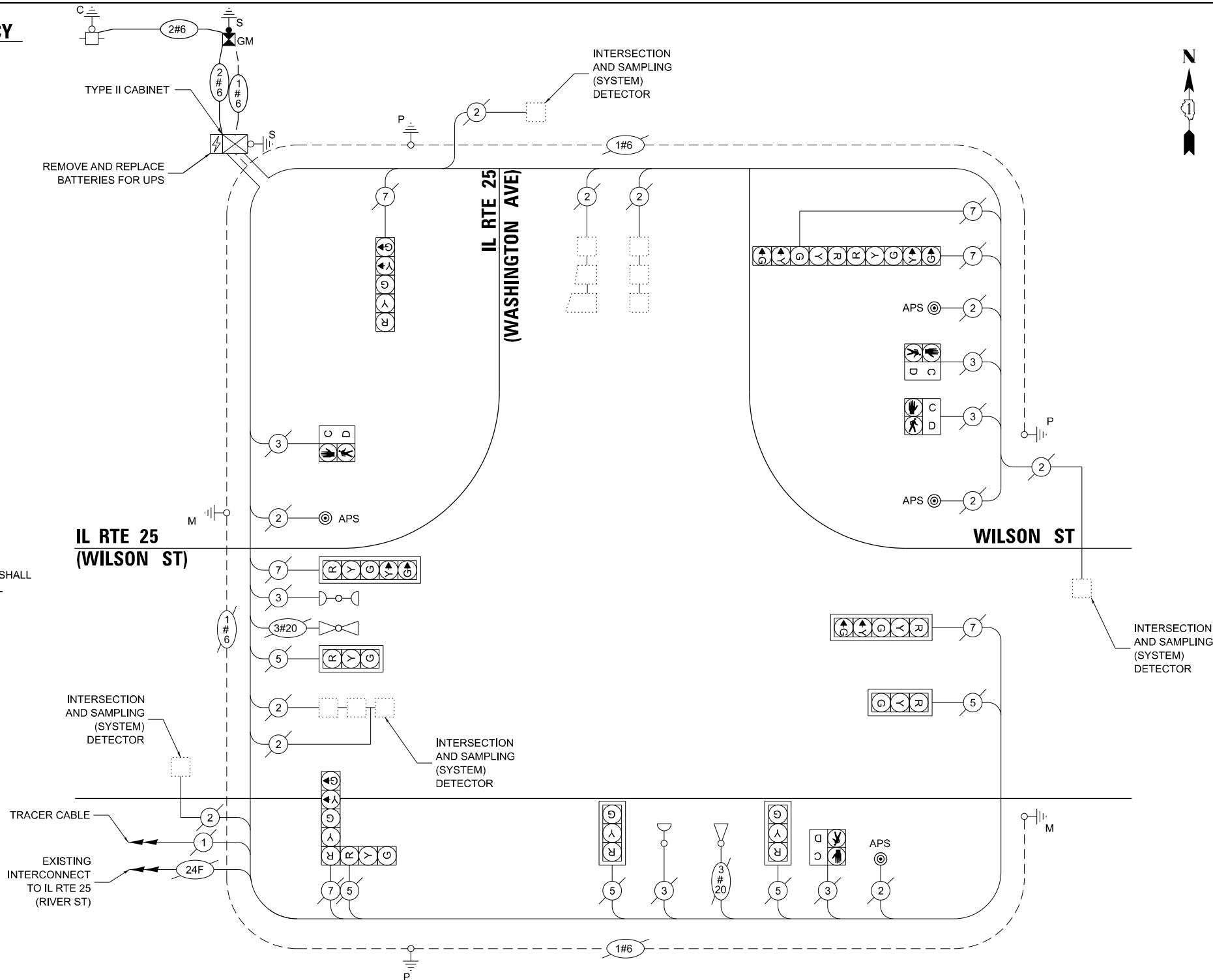
ENERGY COSTS TO:  
**CITY OF BATAVIA**  
 100 N ISLAND AVE  
 BATAVIA, IL 60510

ENERGY SUPPLY: CONTACT: UTILITY BILLING DEPARTMENT  
 PHONE: 630-454-2020  
 COMPANY: CITY OF BATAVIA  
 ACCOUNT NUMBER: -

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	36
CONCRETE FOUNDATION, TYPE A	FOOT	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	165
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN**  
(NOT TO SCALE)



MODEL: D:\chm\...  
 FILE NAME: S:\projects\2216-DDOT-D1\_Ver-FR11-TES & Mgmt-TSIP\Project\Work\CADD\CADD\_Sheets\23\_TS 785-IL 25 (Washington) at Wilson - Evt\23785-IL 25 at IL RTE 25 (Washington Ave).dgn



USER NAME = dlorines  
 PLOT SCALE = 40,000''/in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB	REVISED -
DRAWN - JK	REVISED -
CHECKED - DB	REVISED -
DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES**  
**IL ROUTE 25 (WILSON STREET) AT IL ROUTE 25 (WASHINGTON AVENUE)**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	KANE	89	64
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 785**  
**ECON 26**



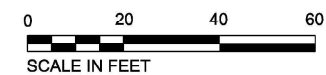
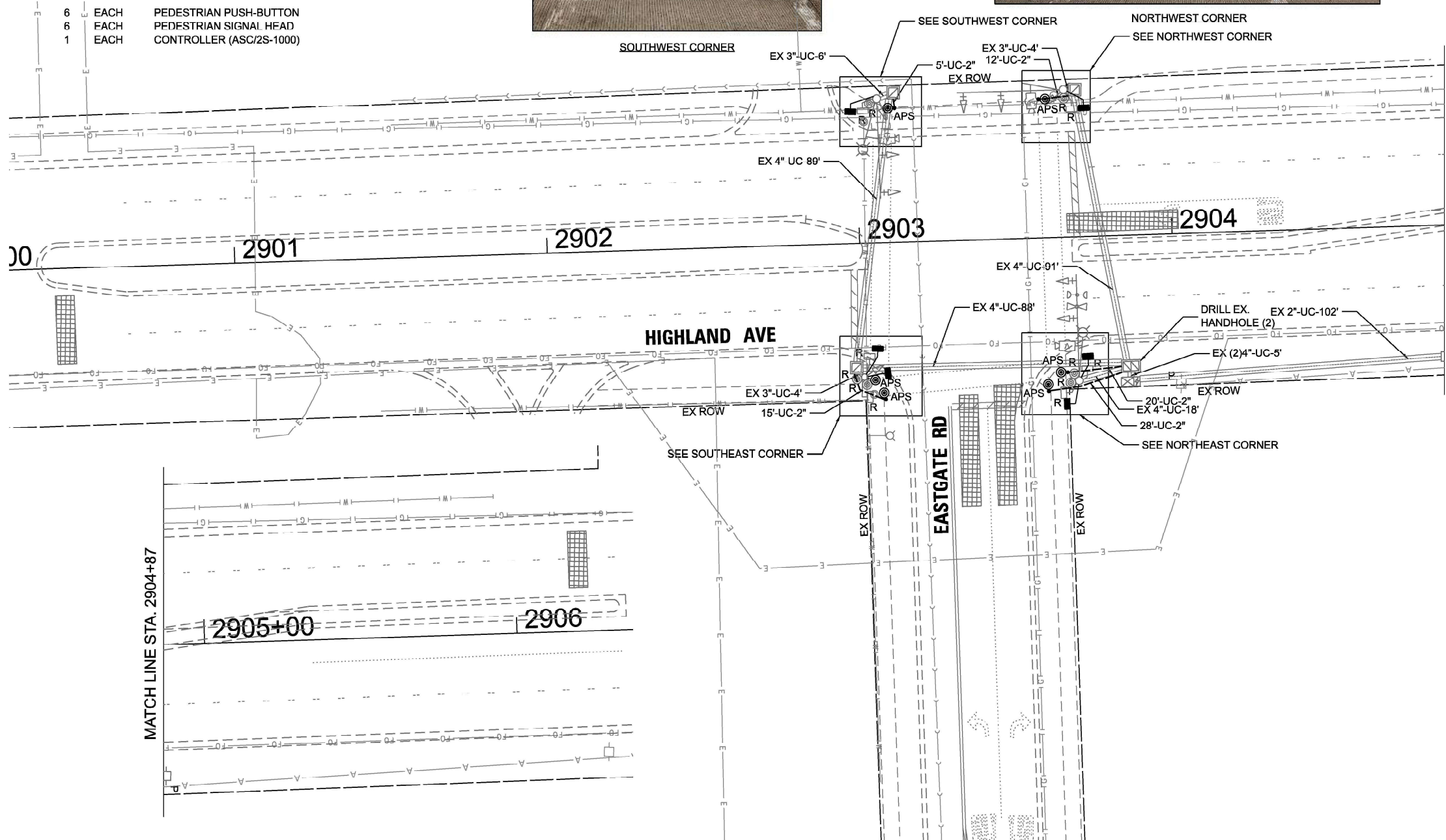
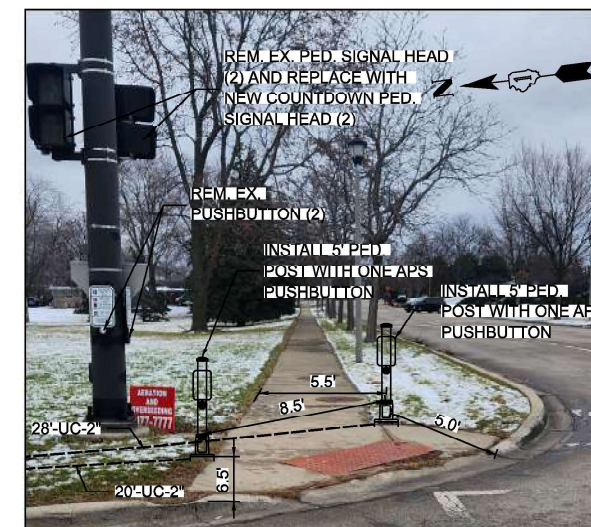
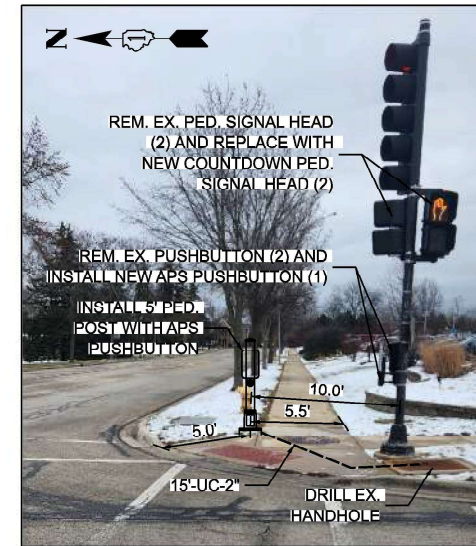
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

- |   |      |                          |
|---|------|--------------------------|
| 6 | EACH | PEDESTRIAN PUSH-BUTTON   |
| 6 | EACH | PEDESTRIAN SIGNAL HEAD   |
| 1 | EACH | CONTROLLER (ASC/2S-1000) |



MODEL: D:\atlas\Projects\2024-08-21-10CTD - Var PHIL TES & Mgmt - TSP\Project\Work\CD\CD\CD\_Sheets\1 - TS 982 - Highland Ave at East Gate\2024-08-21-10CTD-HIGHLAND AT EASTGATE-SIGNAL PLAN.dwg



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
HIGHLAND AVENUE AT EASTGATE ROAD  
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

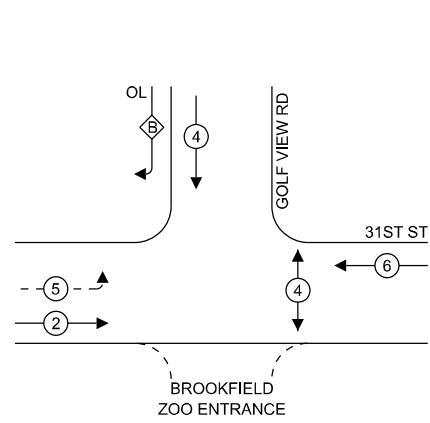
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	DUPAGE	89	65
CONTRACT NO. 62W89			ILLINOIS FED. AID PROJECT	

TS 982





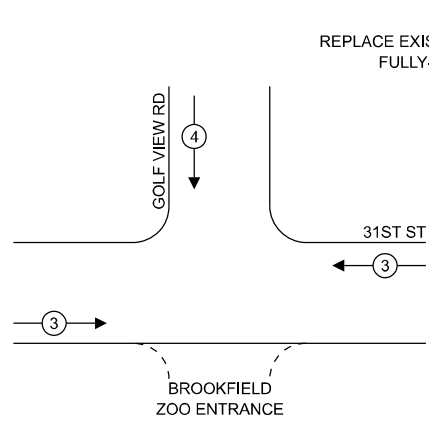
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL I.
- THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

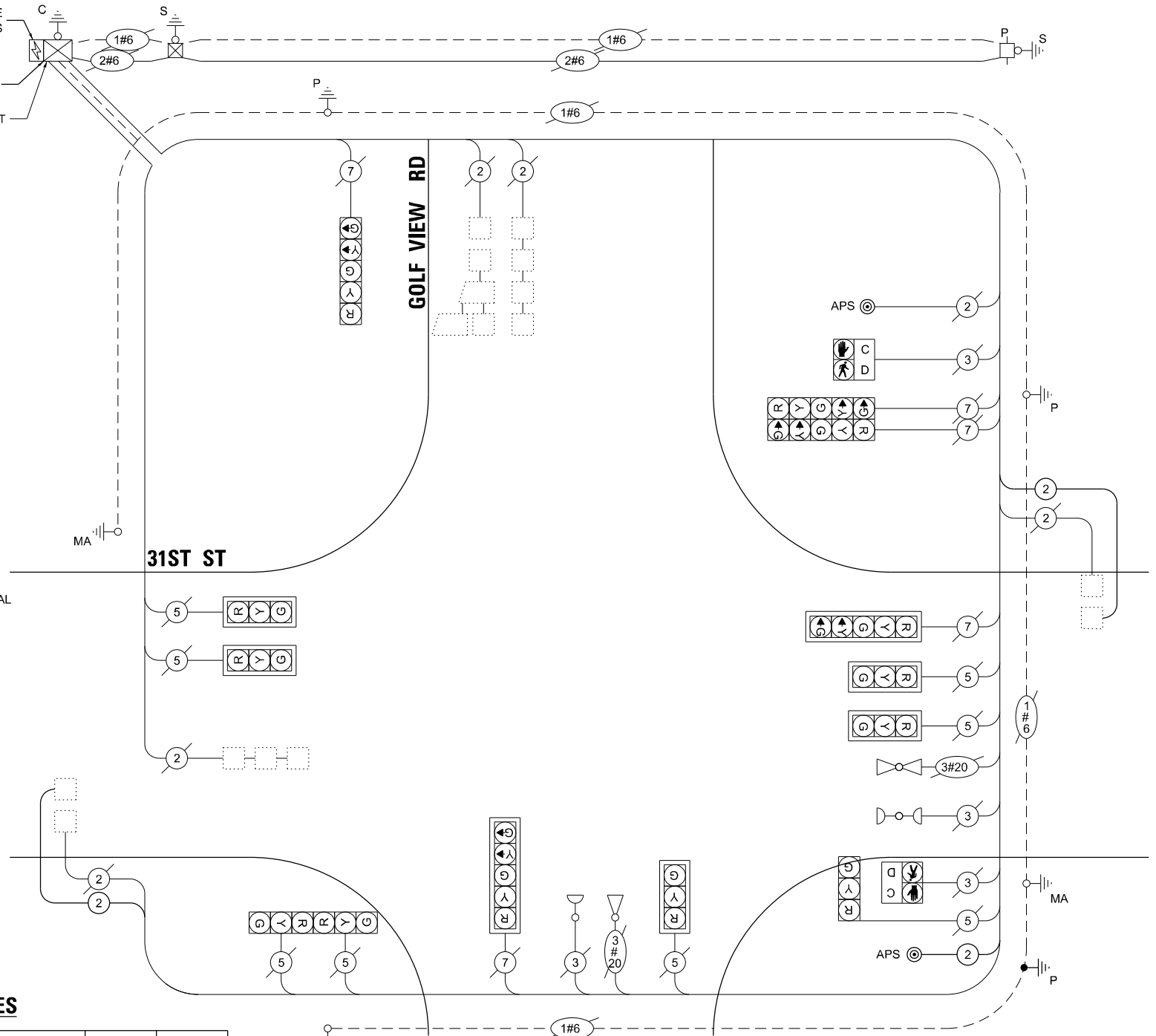
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	5	13	65.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	2	15	30.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING = 358.0</b>				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING = 963.0</b>				

ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 W CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: **ERIKA IRBY**  
 PHONE: 779-231-0633  
 COMPANY: **COMMONWEALTH EDISON**  
 ACCOUNT NUMBER: - 4818961483

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
PERIMETER EROSION BARRIER	FOOT	228
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	100
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	217
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	799
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	127
DRILL EXISTING HANDHOLE	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	197
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
SELECTIVE CLEARING	UNIT	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1



**BROOKFIELD ZOO ENTRANCE**

**CABLE PLAN (NOT TO SCALE)**



USER NAME = dlorines  
 PLOT SCALE = 40,000' / 1" / in.  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	68
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

TS 3765











**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 5' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**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 TRAFFIC CABINET (TS-1) AND CONTROLLER (ASC/2S-2100) COMPLETE
- 1 EACH SERVICE INSTALLATION

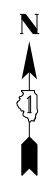
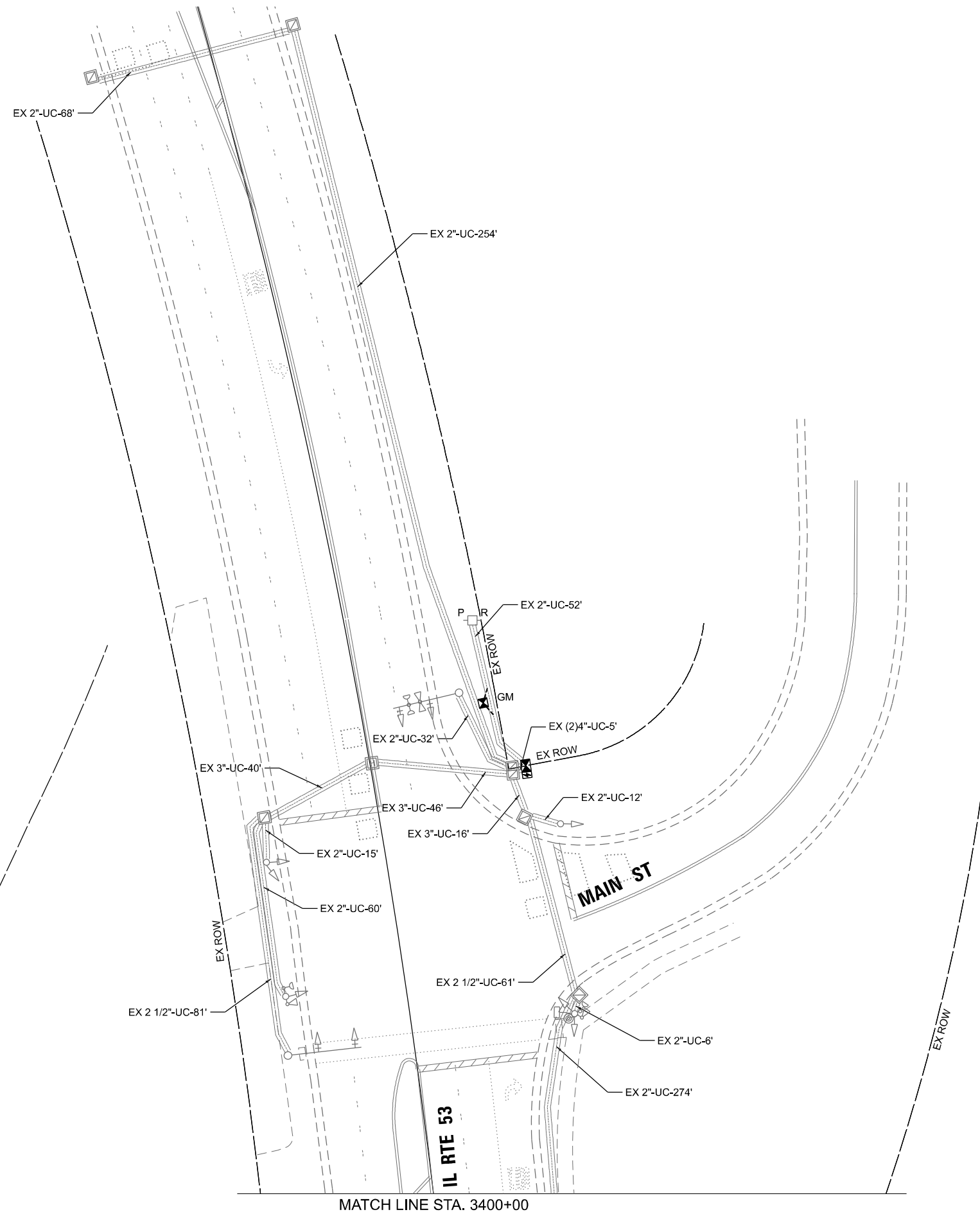
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED GROUND MOUNTED SERVICE:

- 1 EACH SERVICE METER

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

- 1 EACH LIGHT DETECTOR AMPLIFIER

MATCH LINE STA. 3400+00



TS 11655  
ECON 37

MODEL: D:\p1\16 - DOT D1\_Ver FINI TES & Mgmt - TSP\Project: Work\CADD\CADD\_Sheets\38\_TS 11655 - ECON 37 at Main Street\CONTR 37.dgn  
 FILE NAME: S:\Projects\2216 - DOT D1\_Ver FINI TES & Mgmt - TSP\Project: Work\CADD\CADD\_Sheets\38\_TS 11655 - ECON 37 at Main Street\CONTR 37.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
DRAWN - JK	REVISED -	
PLOT SCALE = 40,000' / 1"	CHECKED - DB	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

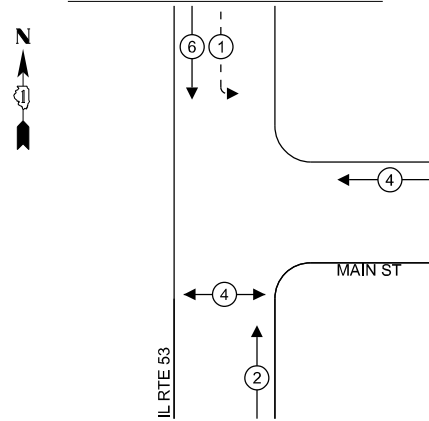
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 53 AT MAIN STREET

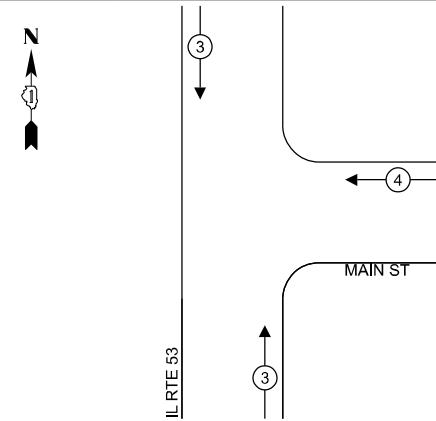
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	DUPAGE	89	73
			CONTRACT NO. 62W89	
		ILLINOIS	FED. AID PROJECT	

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
2. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

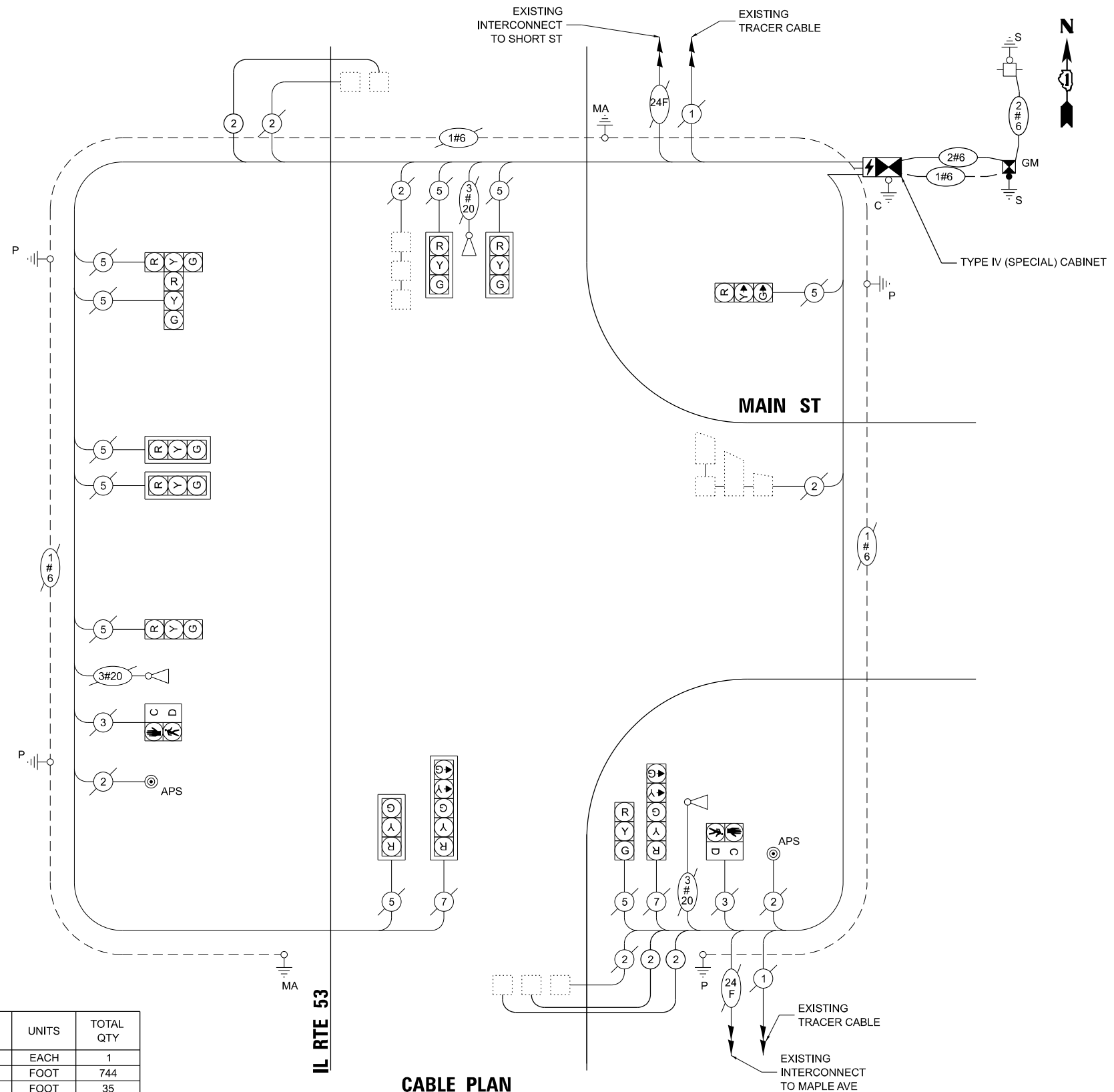
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	10	11	110.0
	4 - SECTION	-	14	-
	5 - SECTION	2	13	26.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	2	15	30.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 341.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 946.0				
ENERGY COSTS TO: VILLAGE OF LISLE 925 BURLINGTON AVE LISLE, IL 60532				
ENERGY SUPPLY: CONTACT: NICK TULEJA PHONE: 440-976-8979 COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: - 4244068000				

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	744
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	35
CONCRETE FOUNDATION, TYPE A	FOOT	4
INDUCTIVE LOOP DETECTOR	EACH	3
RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**CABLE PLAN (NOT TO SCALE)**



MODEL: D:\proj\11\11-0001\11-0001.dwg, Ver: P111, TSS & Mmm - TSP\proj\11\11-0001\11-0001.dwg, TS 11655-1, 53 of Main, S:\proj\11\11-0001\11-0001.dwg, S:\proj\11\11-0001\11-0001.dwg, S:\proj\11\11-0001\11-0001.dwg

**TS 11655  
ECON 37**



USER NAME = dlorines  
PLOT SCALE = 40,000''/in.  
PLOT DATE = 7/31/2025

DESIGNED - DLB  
DRAWN - JK  
CHECKED - DB  
DATE - 07/31/2025

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
IL ROUTE 53 AT MAIN STREET**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	DUPAGE	89	74
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

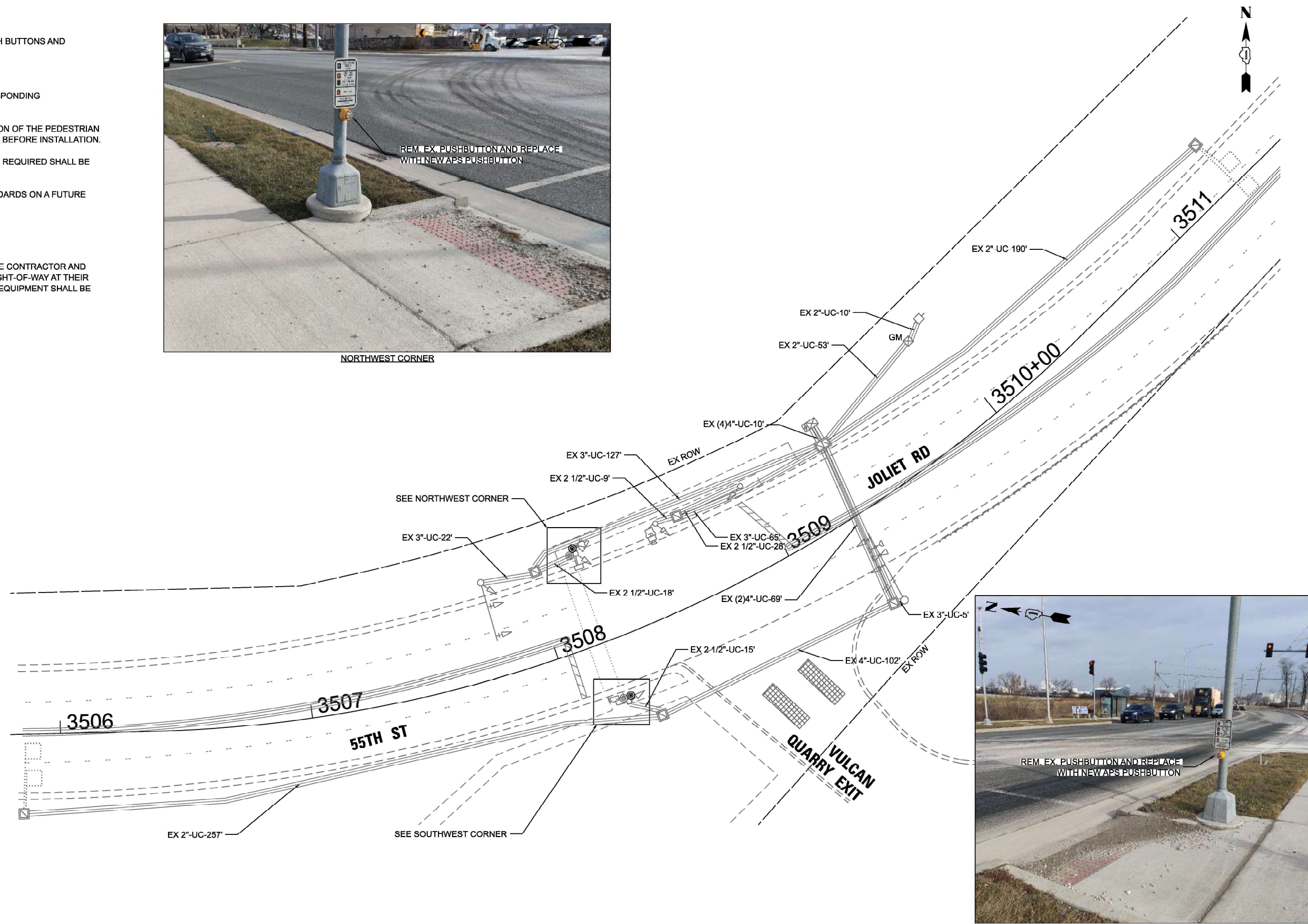
**REMOVAL NOTES:**

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.

- 2 EACH PEDESTRIAN PUSH-BUTTON



NORTHWEST CORNER



SOUTHWEST CORNER



TS 3850  
EAGLE 2B

MODEL: D:\proj\216 - DOT D - Var Pnt\TES & Mgmt - TSP\Project\Work\CD\CD\CADD\_Sheets\37 - TS 3850 - 55th St at Joliet Road\216-07-25-55TH AT JOLIET SIGNAL Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

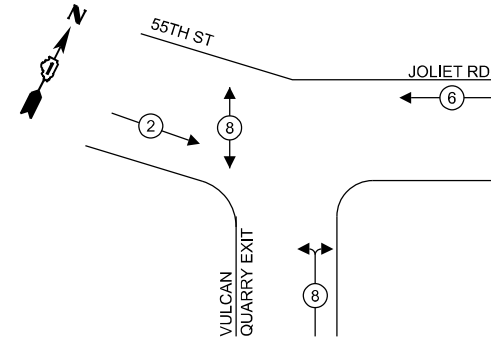
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
55TH STREET AT JOLIET ROAD

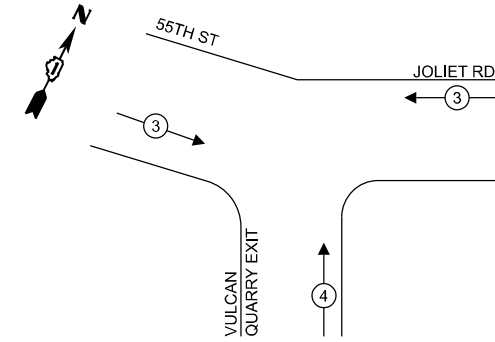
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	75
			CONTRACT NO. 62W89	
ILLINOIS FED. AID PROJECT				

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**NOTES:**

1. TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	9	11	99.0
	4 - SECTION	-	14	-
	5 - SECTION	-	13	-
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
PED. SIGNAL	2	15	30.0	
CONTROLLER	1	150	150.0	
MASTER CONTROLLER	-	100	-	
UPS	1	25	25.0	
DETECTION	RADAR	1	20	20.0
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
<b>TOTAL UPS SIZING = 324.0</b>				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
<b>TOTAL SERVICE WIRE SIZING = 929.0</b>				

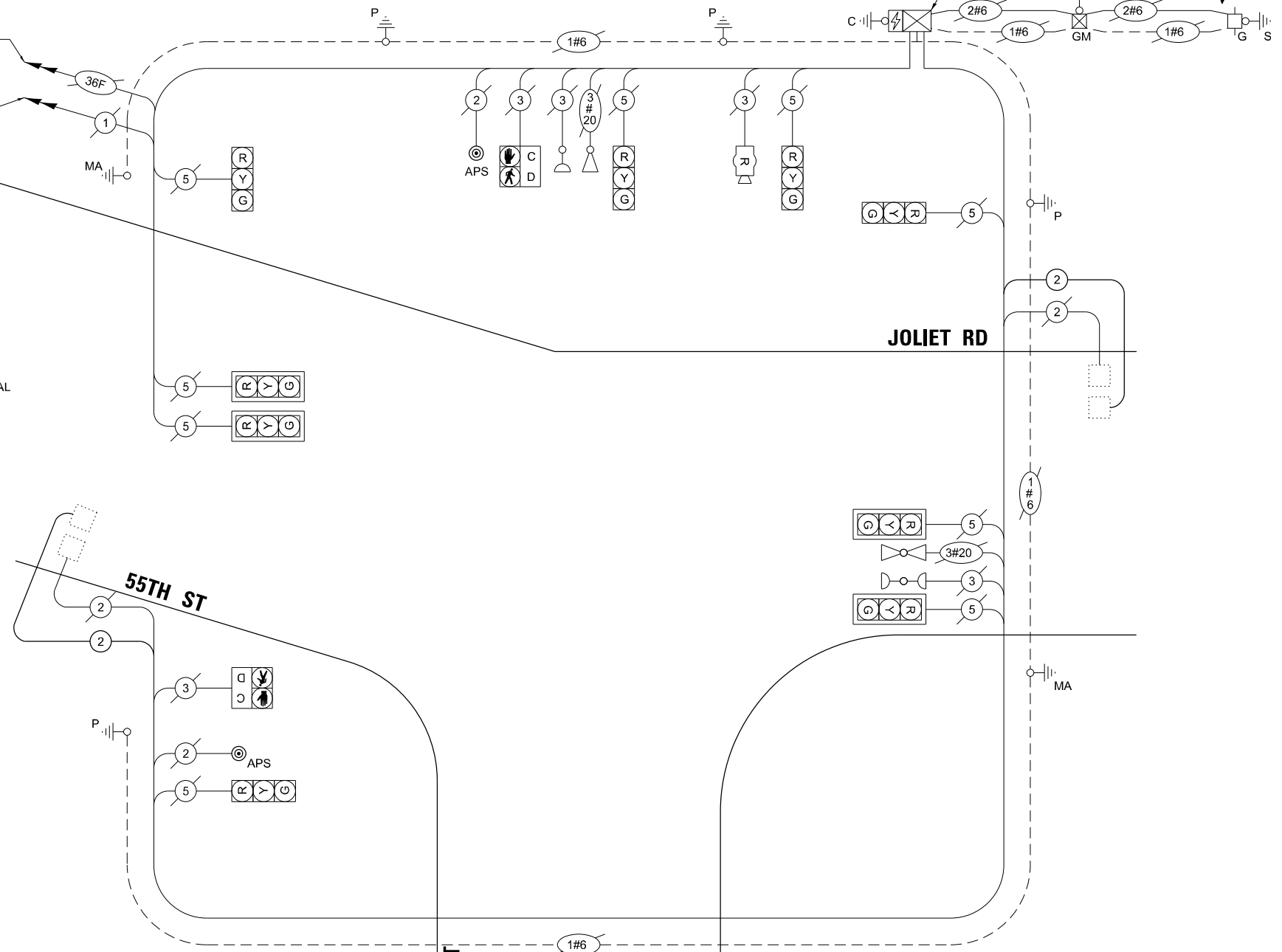
ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 W CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: NICK TULEJA  
 PHONE: 440-796-8979  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 3149721621

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	712
INDUCTIVE LOOP DETECTOR	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

EXISTING INTERCONNECT TO EMD DR  
 EXISTING TRACER CABLE



**CABLE PLAN**  
(NOT TO SCALE)

MODEL: D:\proj\...  
 FILE NAME: S:\proj\...  
 PROJECT: ...  
 DATE: 7/31/2025



ATLAS TECHNICAL CONSULTANTS, LLC  
 100 S. WACKER DRIVE, SUITE 400  
 CHICAGO, IL 60606

DESIGNED - DLB	REVISED -
DRAWN - JK	REVISED -
CHECKED - DB	REVISED -
DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
 55TH STREET AT JOLIET ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	76
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 3850  
 EAGLE 2B**

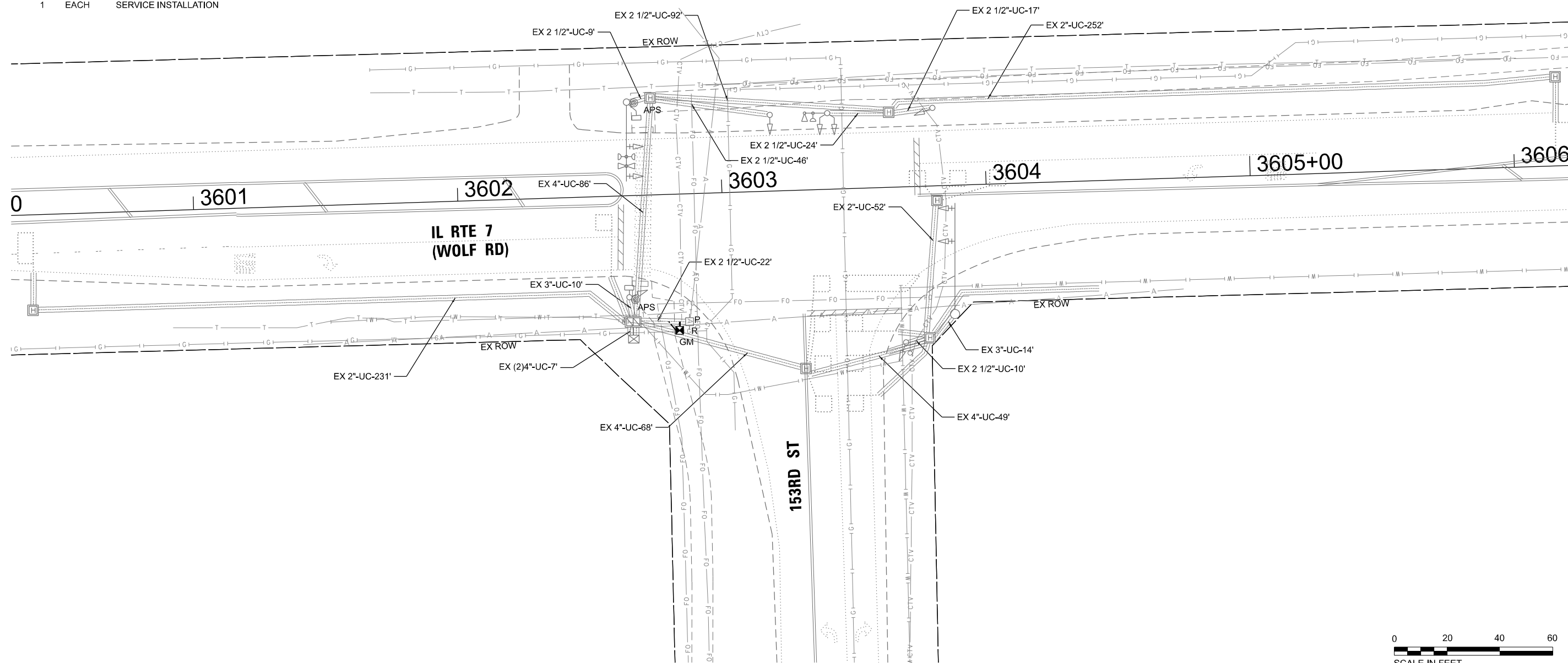
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF LEADING PEDESTRIAN INTERVAL PHASE.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
4. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 5' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**REMOVAL 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 TRAFFIC CONTROLLER (ASC/2S-1000)
- 1 EACH SERVICE INSTALLATION



**TS 159**  
**ECON 169**

MODEL: D:\p1\m...  
 FILE NAME: S:\Projects\2216 - DOT D1\_Ver FRII TES & Mgmt - TSIP\Project Work\CADD\CADD\_Sheets\38\_TS 159 - IL 7 (Wolf Rd) at 153rd St\CADD\CADD\_Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
DRAWN - JK	REVISED -	
PLOT SCALE = 40,000' / 1"	CHECKED - DB	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

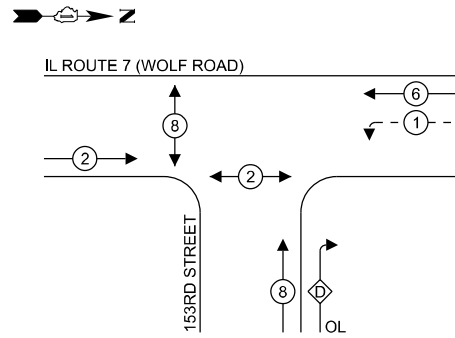
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN**  
**IL ROUTE 7 (WOLF ROAD) AT 153RD STREET**

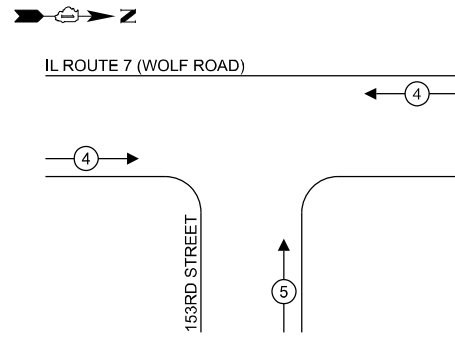
SCALE: 1"=20'    SHEET 1 OF 2 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	77
CONTRACT NO. 62W89				
ILLINOIS		FED. AID PROJECT		

**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- OL — OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 8. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
- THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE	
SIGNAL HEAD	3 - SECTION	8	11	88.0
	4 - SECTION	-	14	-
	5 - SECTION	3	13	39.0
<b>PROGRAMMABLE SIGNALS</b>				
	3 - SECTION	-	22	-
	4 - SECTION	-	32	-
	5 - SECTION	-	28	-
<b>PED. SIGNAL</b>				
CONTROLLER	4	15	60.0	
MASTER CONTROLLER	1	150	150.0	
UPS	1	25	25.0	
DETECTION	RADAR	-	20	-
	VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-	
NETWORK SWITCH II OR III	-	35	-	
CELLULAR MODEM	-	15	-	
TOTAL UPS SIZING = 362.0				
UPS CHARGING	1	225	225.0	
BATTERY HEATER MAT	1	180	180.0	
CABINET HEATER	1	200	200.0	
FLASHER	-	15	-	
LED STREET NAME SIGN	-	120	-	
LUMINAIRE	-	240	-	
TOTAL SERVICE WIRE SIZING = 967.0				

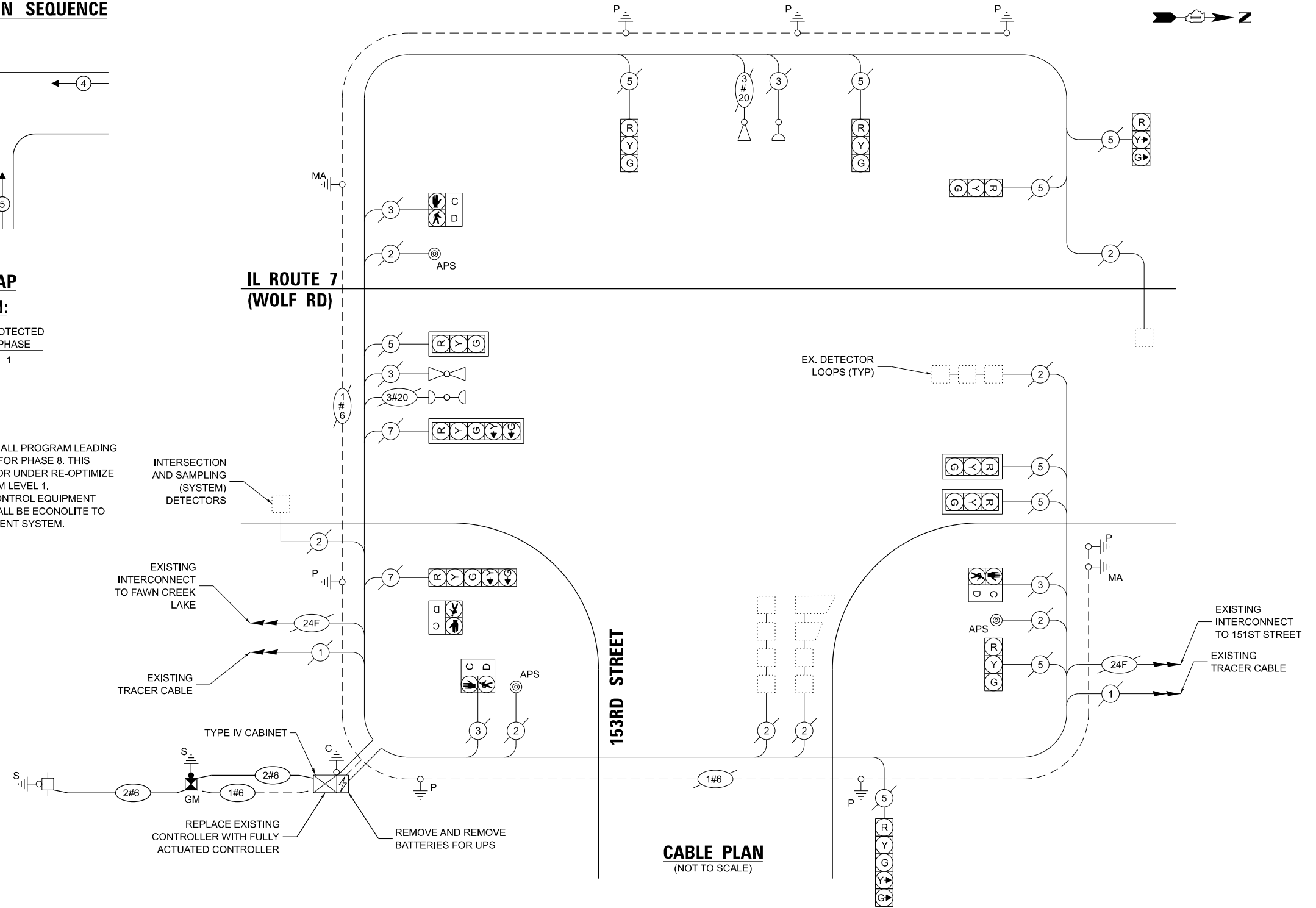
ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 W CENTER COURT  
 SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: PAUL EDWARDS  
 PHONE: 773-573-8637  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 65713-64111

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	36
CONCRETE FOUNDATION, TYPE A	FOOT	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**IL ROUTE 7 (WOLF RD)**



MODEL: D:\proj\153rd-Wolf\153rd-Wolf.dwg  
 FILE NAME: 153rd-Wolf.dwg  
 PROJECT: 153rd-Wolf  
 DATE: 7/31/2025  
 TS 159 - IL 7 (Wolf Rd) at 153rd Street  
 SHEET: 2 OF 2  
 CONTRACT: 2024-964-TS



USER NAME = dlorines  
 PLOT SCALE = 40,000' / 1" /  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND  
 EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES  
 IL ROUTE 7 (WOLF ROAD) AT 153RD STREET**

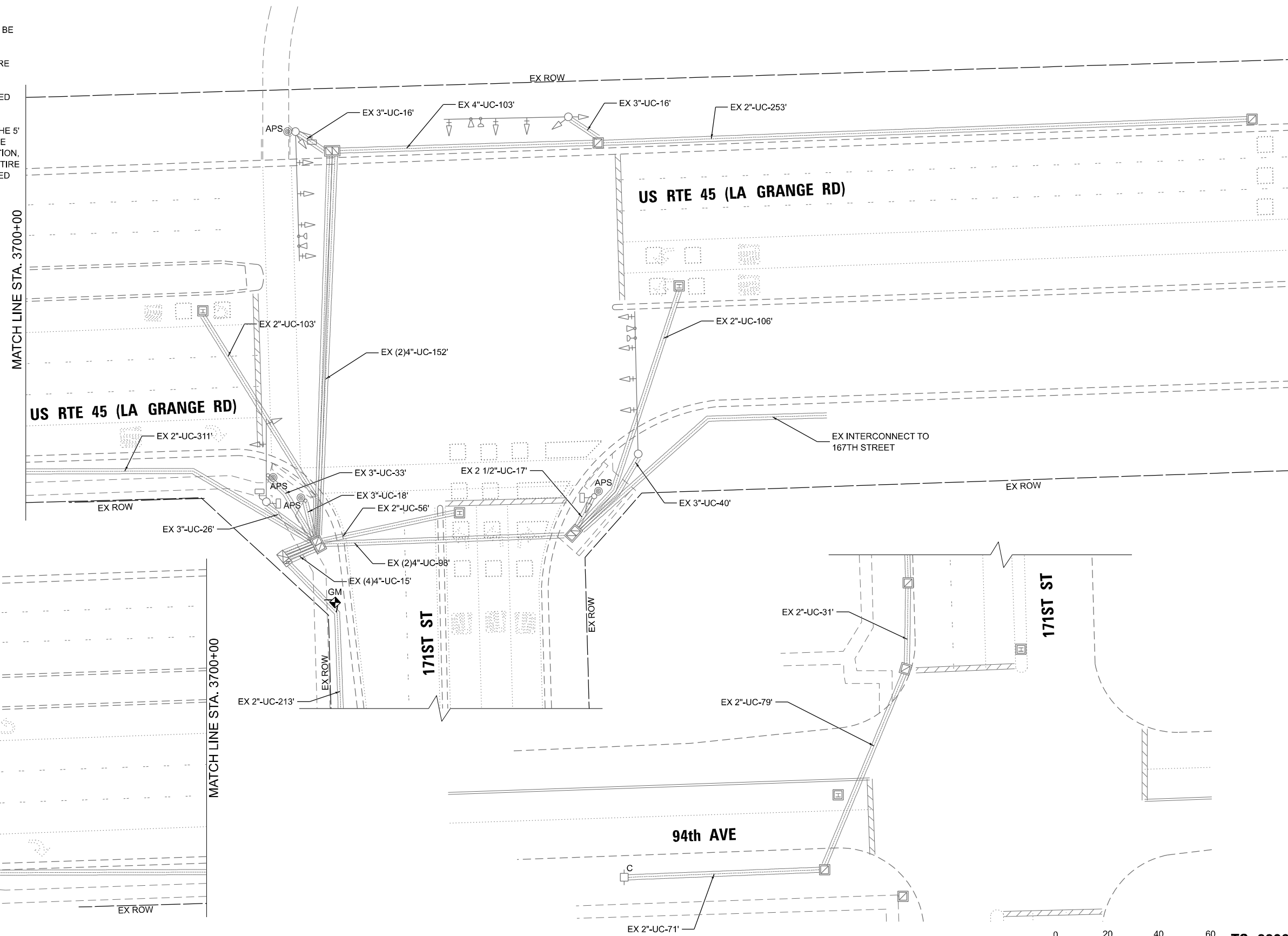
SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	78
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

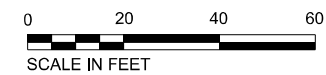
**TS 159  
 ECON 169**

**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF LEADING PEDESTRIAN INTERVAL PHASE.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
4. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 5' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.



MODEL: D:\p1\4 ATLAS\Projects\2216 - DOT D1\_Vir FRII TES & Mgmt - TSIP\Project Work\CADD\CADD\_Sheets\39\_TS 22060-US 45 (La Grange Rd) at 171st Street\Signal Plan.dgn  
 FILE NAME: S:\Projects\2216 - DOT D1\_Vir FRII TES & Mgmt - TSIP\Project Work\CADD\CADD\_Sheets\39\_TS 22060-US 45 (La Grange Rd) at 171st Street\Signal Plan.dgn



**TS 22060**  
**EAGLE 3H**



USER NAME = dbriones	DESIGNED - DLB	REVISED -
DRAWN - JK	REVISED -	
PLOT SCALE = 40,000' / 1"	CHECKED - DB	REVISED -
PLOT DATE = 7/31/2025	DATE - 07/31/2025	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN**  
**US ROUTE 45 (LA GRANGE ROAD) AT 171ST STREET**

SCALE: 1"=20'    SHEET 1 OF 2 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	79
CONTRACT NO. 62W89				
ILLINOIS		FED. AID PROJECT		





**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.
7. THE GROUND MOUNTED, METERED SERVICE SHALL BE CONSTRUCTED ADJACENT TO THE EXISTING SERVICE CONDUIT PRIOR TO DISCONNECTING THE EXISTING SERVICE. INCLUDE A 6' STUB OF 2" CONDUIT FROM THE GM FOR FUTURE CONNECTION. THE COST OF THE 5' STUB, 2" UNDERGROUND CONDUIT AND SPLICE TO EXISTING SERVICE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A. THE TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL THE ENTIRE TIME THE SWITCH OVER BETWEEN EXISTING SERVICE AND PROPOSED SERVICE IS MADE.

**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.

- 3 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH TRAFFIC SIGNAL CONTROLLER (ASC/2-2100) AND CABINET (TS1) COMPLETE
- 1 EACH SERVICE INSTALLATION
- 1 EACH SIGNAL POST

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

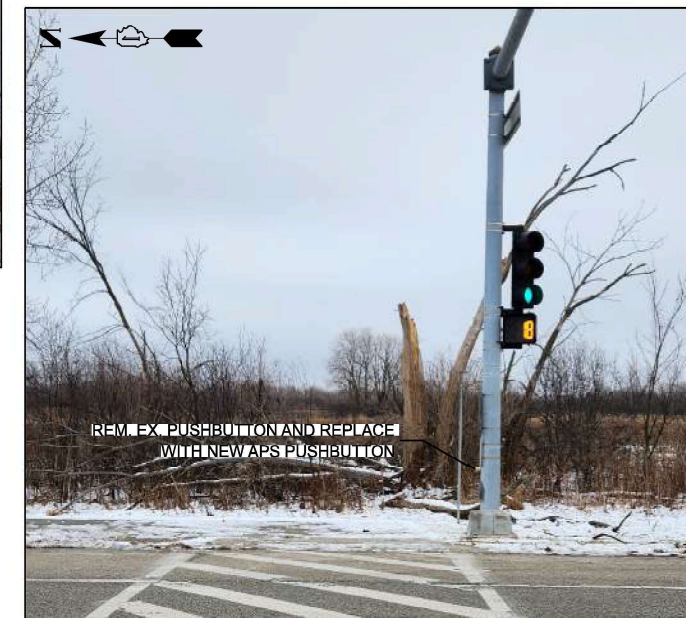
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH 5-SECTION SIGNAL HEAD



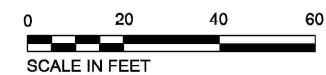
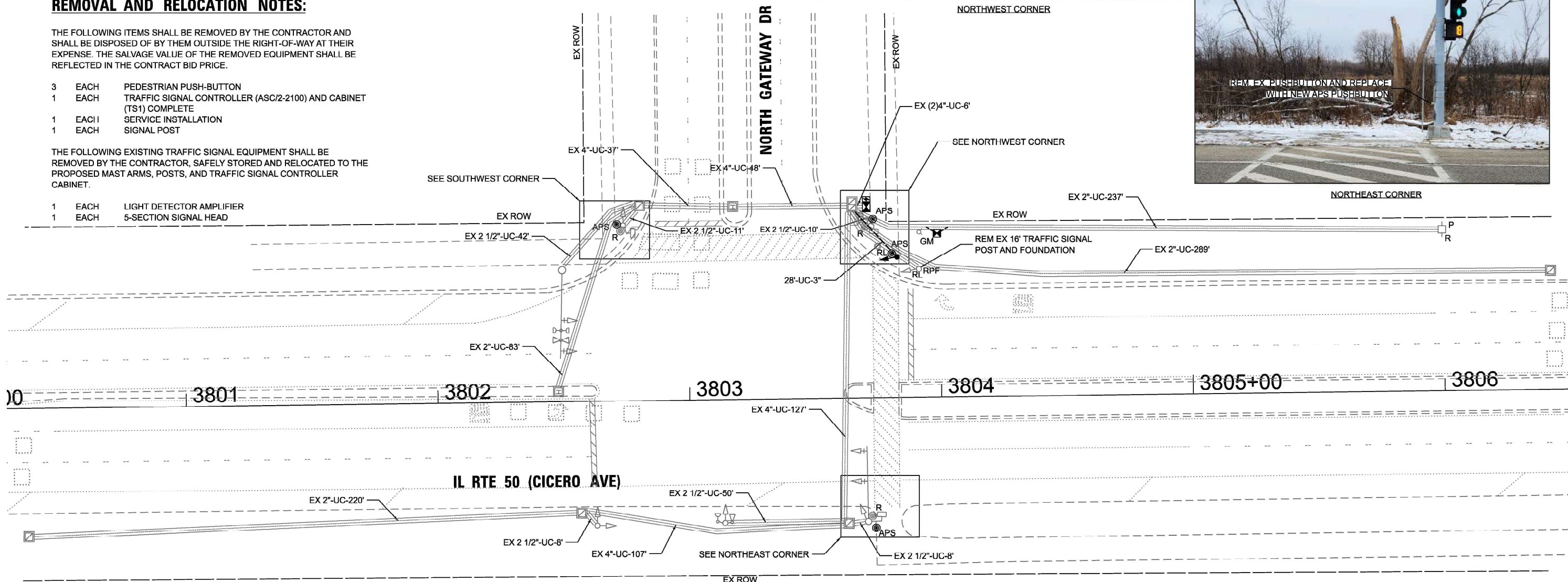
SOUTHWEST CORNER



NORTHWEST CORNER



NORTHEAST CORNER



TS 12404  
ECON 54

MODEL: D:\atlas\Projects\2116 - DCTD - Var Phil TES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\40 - TS 12404 - IL 50 Cicero Ave\ at North Gateway Dr\022108-ans\04-IL 50 at Gateway-SIGNAL\_Plan.dgn



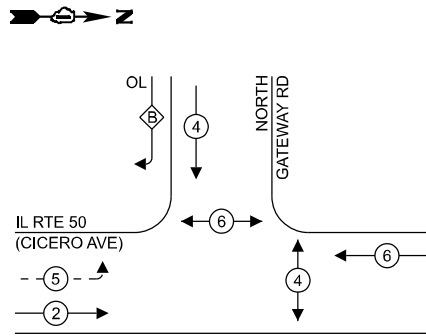
USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / 1 in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
IL ROUTE 50 (CICERO AVENUE) AT NORTH GATEWAY DRIVE  
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	81
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

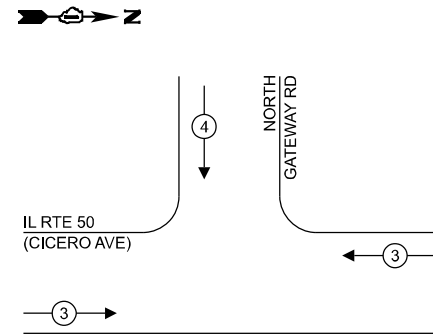
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**NOTES:**

- TIMING CONSULTANT SHALL PROGRAM LEADING PEDESTRIAN INTERVAL FOR PHASE 4. THIS WORK SHALL BE PAID FOR UNDER RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1.
- THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS LOCATION SHALL BE ECONOLITE TO MATCH EXISTING ADJACENT SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

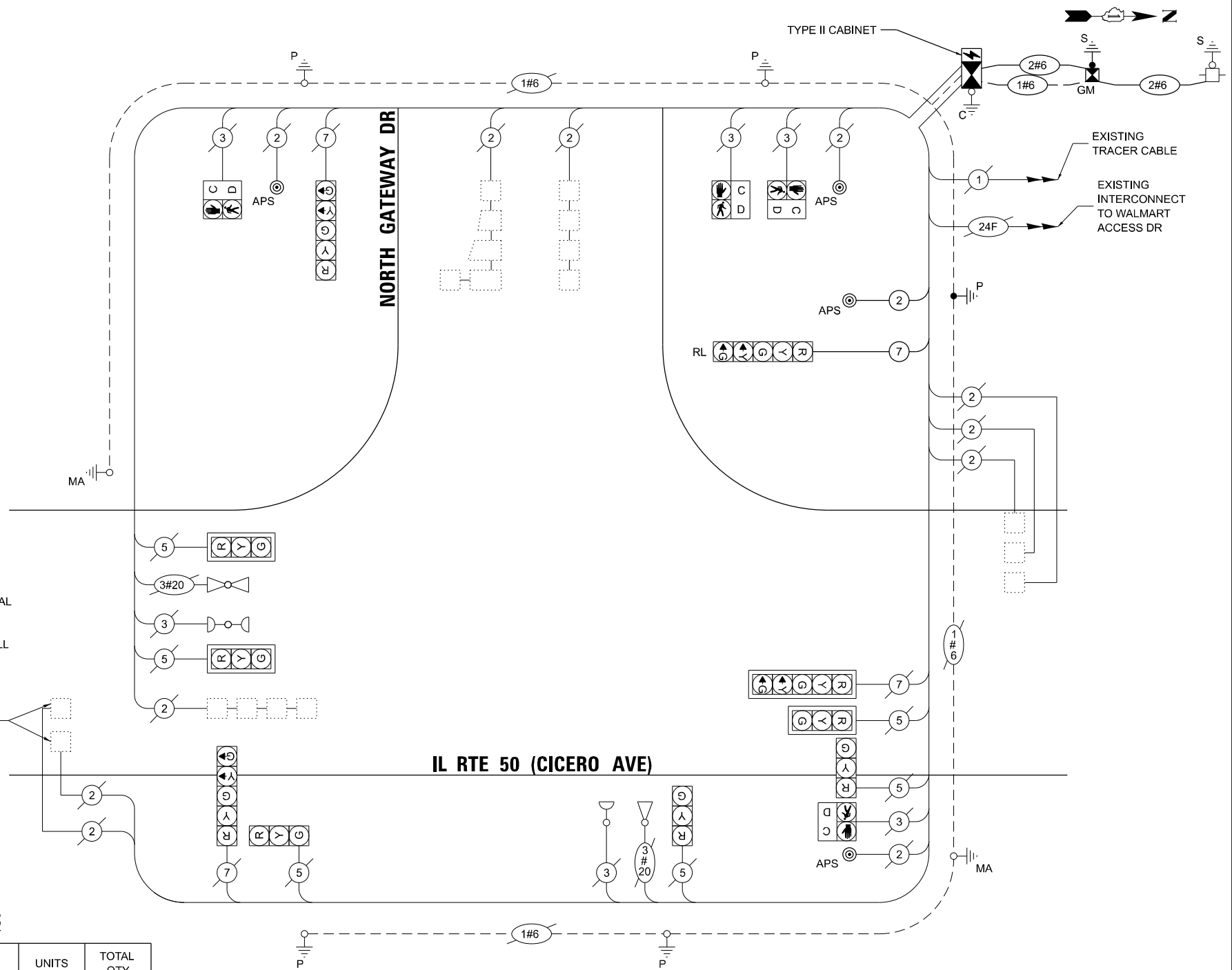
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD	3 - SECTION	6	11
	4 - SECTION	-	14
	5 - SECTION	4	13
			52.0
<b>PROGRAMMABLE SIGNALS</b>			
	3 - SECTION	-	22
	4 - SECTION	-	32
	5 - SECTION	-	28
			-
PED. SIGNAL CONTROLLER	4	15	60.0
MASTER CONTROLLER	1	150	150.0
UPS	-	100	-
DETECTION RADAR	1	25	25.0
VIDEO	-	20	-
			-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
			-
<b>TOTAL UPS SIZING = 353.0</b>			
UPS CHARGING	1	225	225.0
BATTERY HEATER MAT	1	180	180.0
CABINET HEATER	1	200	200.0
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
			-
<b>TOTAL SERVICE WIRE SIZING = 958.0</b>			

ENERGY COSTS TO:  
**VILLAGE OF MATTESON**  
 4900 VILLAGE COMMONS  
 MATTESON, IL 60443

ENERGY SUPPLY: CONTACT: PAUL EDWARDS  
 PHONE: 773-573-8637  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: - 582401222

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	26
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	63
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	70
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	70
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	60
CONCRETE FOUNDATION, TYPE A	FOOT	4
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
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY-UPS	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



**CABLE PLAN (NOT TO SCALE)**

MODEL: D:\ch\11...  
 FILE NAME: S:\proj\2024-964-TS\11...  
 PROJECT: 2024-964-TS  
 SHEET: 2 OF 2  
 DATE: 7/31/2025



USER NAME = dbriones  
 PLOT SCALE = 40,000' / 1" / 1"  
 PLOT DATE = 7/31/2025

DESIGNED - DLB  
 DRAWN - JK  
 CHECKED - DB  
 DATE - 07/31/2025

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES IL ROUTE 50 (CICERO AVENUE) AT NORTH GATEWAY DRIVE**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-964-TS	COOK	89	82
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				

**TS 12404 ECON 54**

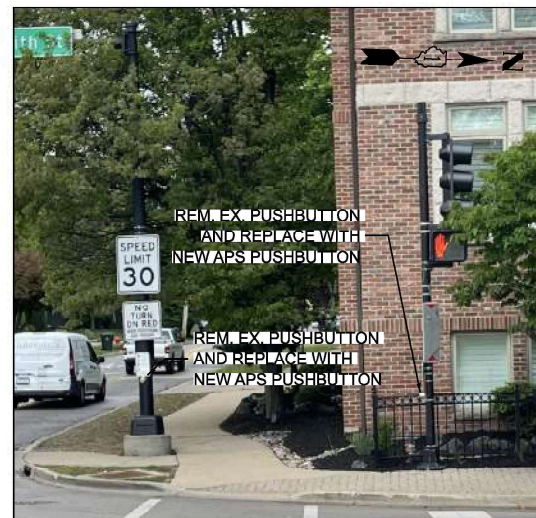
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

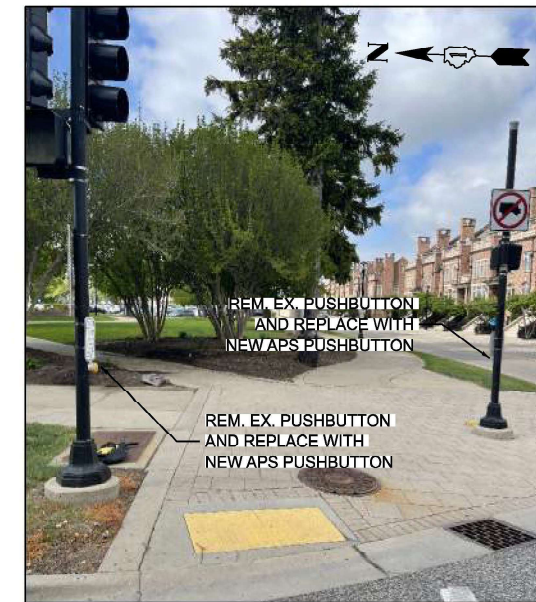
**REMOVAL NOTES:**

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.

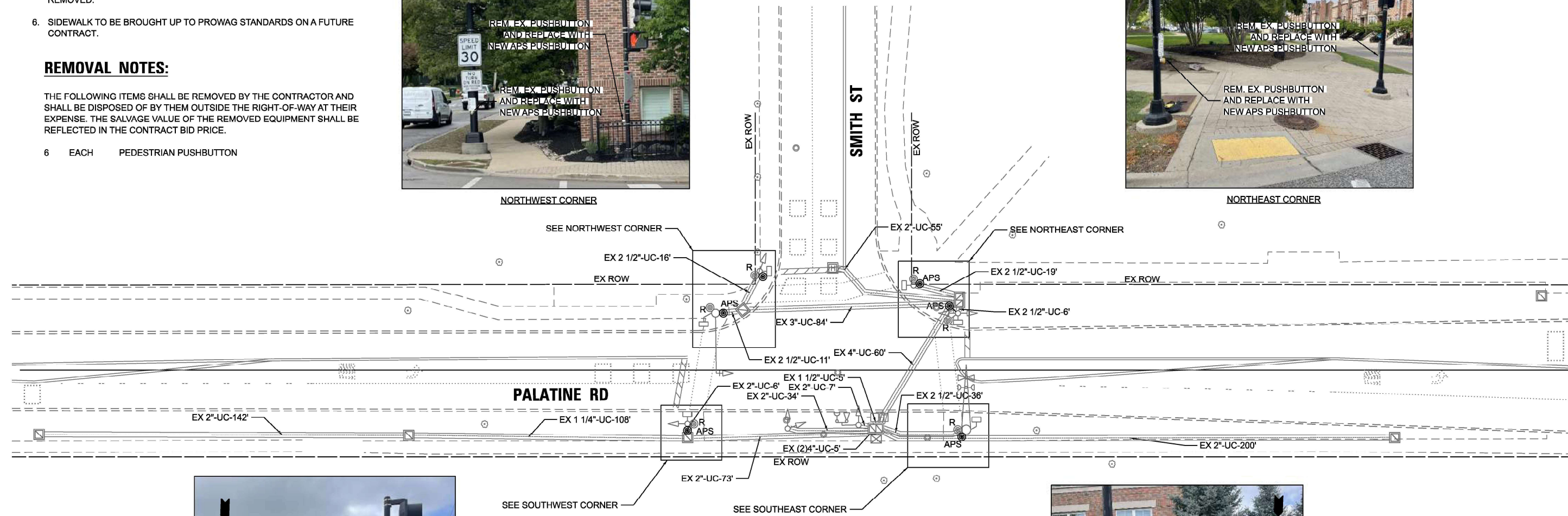
- 6 EACH PEDESTRIAN PUSHBUTTON



NORTHWEST CORNER



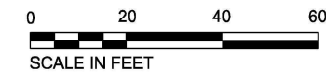
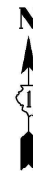
NORTHEAST CORNER



SOUTHWEST CORNER



SOUTHEAST CORNER



TS 14715  
ECON 9

MODEL: D:\atlas\Projects\2116 - DOTD - Var Phil TES & Mgmt - TSP\Project\Work\CADD\CADD\_Sheets\41 - TS 14715 - Palatine Rd at Smith Street\2116-08-01-02-Palatine at Smith-SIGNAL\_Plan.dwg



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
PALATINE ROAD AT SMITH STREET

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
XXX	2024-984-TS	COOK	89	83
CONTRACT NO. 62W89				
ILLINOIS FED. AID PROJECT				



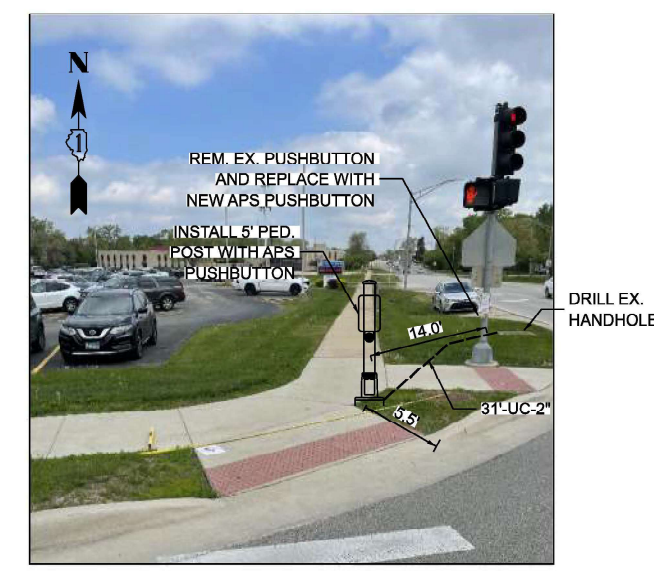
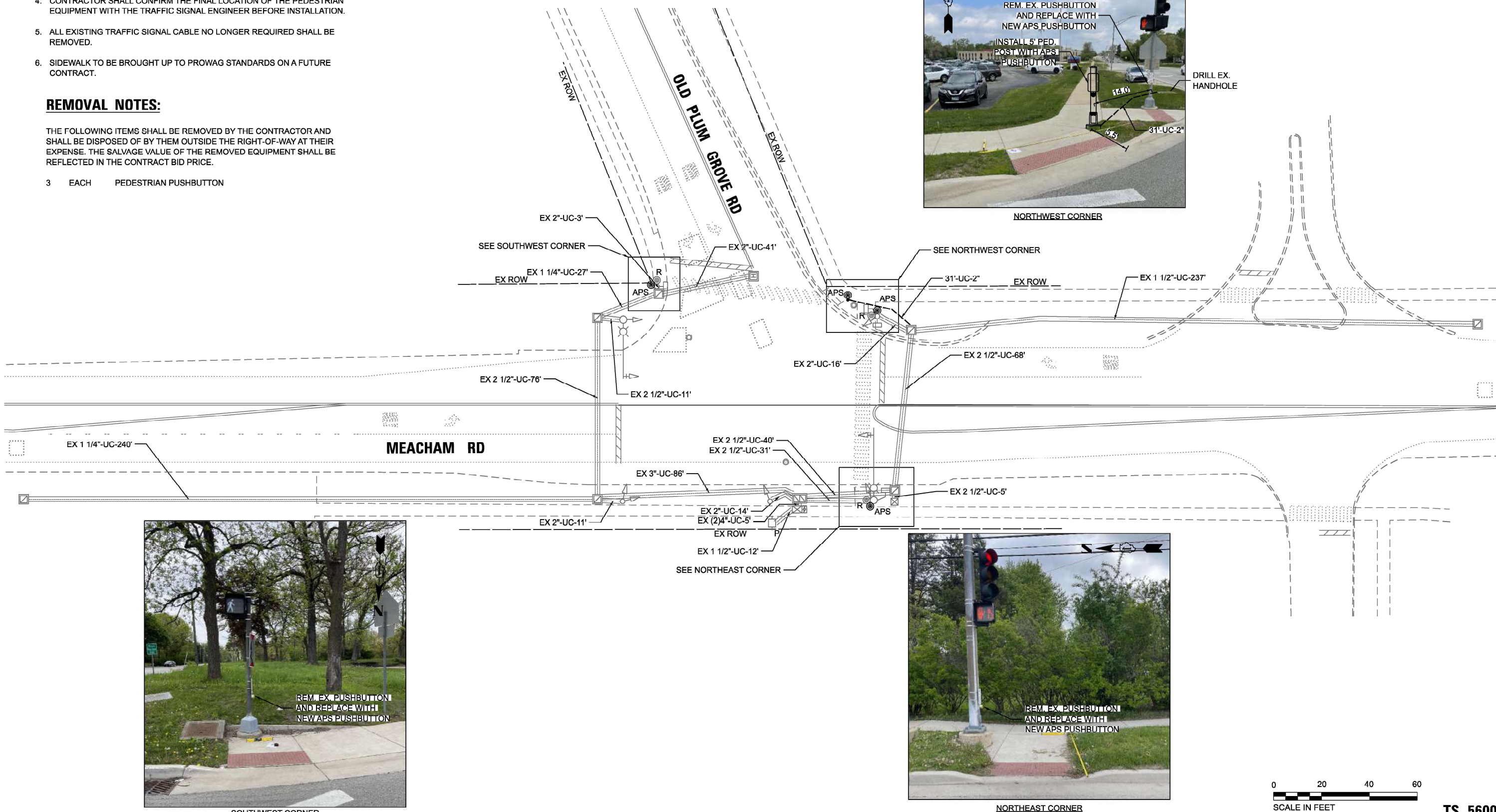
**NOTES:**

1. THIS PLAN IS FOR THE INSTALLATION OF APS PUSH BUTTONS AND LEADING PEDESTRIAN INTERVAL PROGRAMMING.
2. ALL PUSH BUTTONS SHALL BE APS.
3. APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALKS.
4. CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT WITH THE TRAFFIC SIGNAL ENGINEER BEFORE INSTALLATION.
5. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
6. SIDEWALK TO BE BROUGHT UP TO PROWAG STANDARDS ON A FUTURE CONTRACT.

**REMOVAL 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.

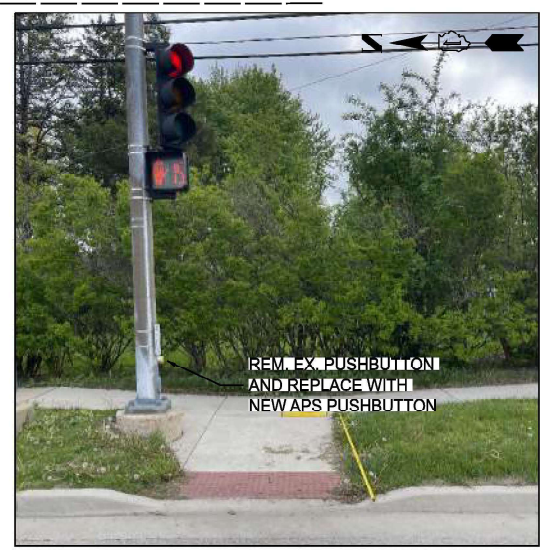
- 3 EACH PEDESTRIAN PUSHBUTTON



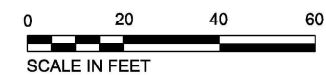
NORTHWEST CORNER



SOUTHWEST CORNER



NORTHEAST CORNER



SCALE IN FEET

**TS 5600**

MODEL: D:\proj\2116 - DOTD - Var Phil TES & Mgmt - TSP\Project\Work\CD\CD\CADD\_Sheets\42 - TS 5600 - Meacham Rd at Old Plum Grove Rd\CD\5600-014-Mecham at Old Plum Grove\Signal\_Plan.dgn  
 FILE NAME: S:\proj\2116 - DOTD - Var Phil TES & Mgmt - TSP\Project\Work\CD\CD\CADD\_Sheets\42 - TS 5600 - Meacham Rd at Old Plum Grove Rd\CD\5600-014-Mecham at Old Plum Grove\Signal\_Plan.dgn



USER NAME = dbriones	DESIGNED - DLB	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - JK	REVISED -
PLOT DATE = 7/31/2025	CHECKED - DD	REVISED -
	DATE - 07/31/2025	REVISED -

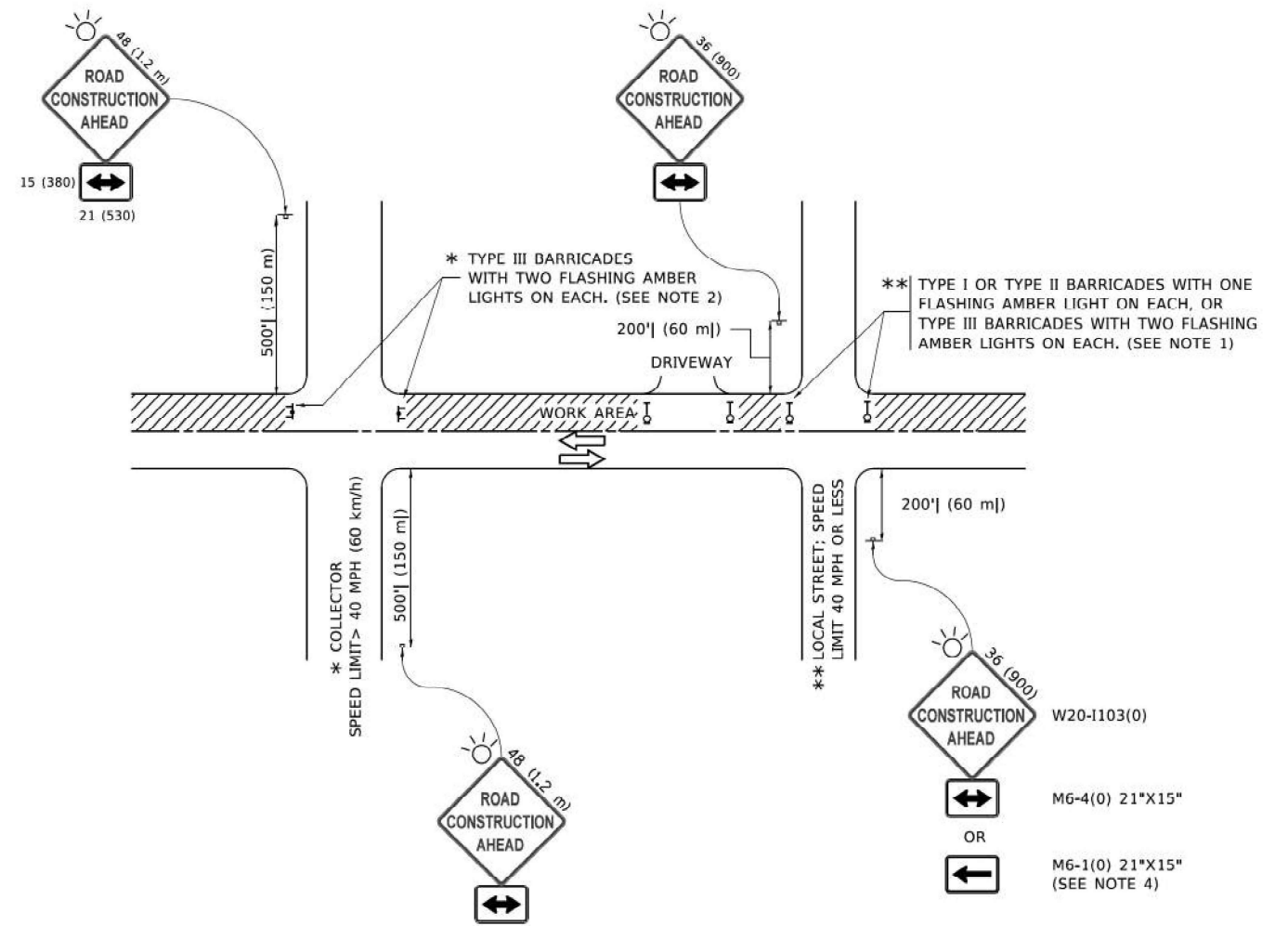
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN  
MEACHAM ROAD AT OLD PLUM GROVE ROAD**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. XXX	SECTION 2024-984-TS	COUNTY COOK	TOTAL SHEETS 89	SHEET NO. 85
CONTRACT NO. 62W89				
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. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
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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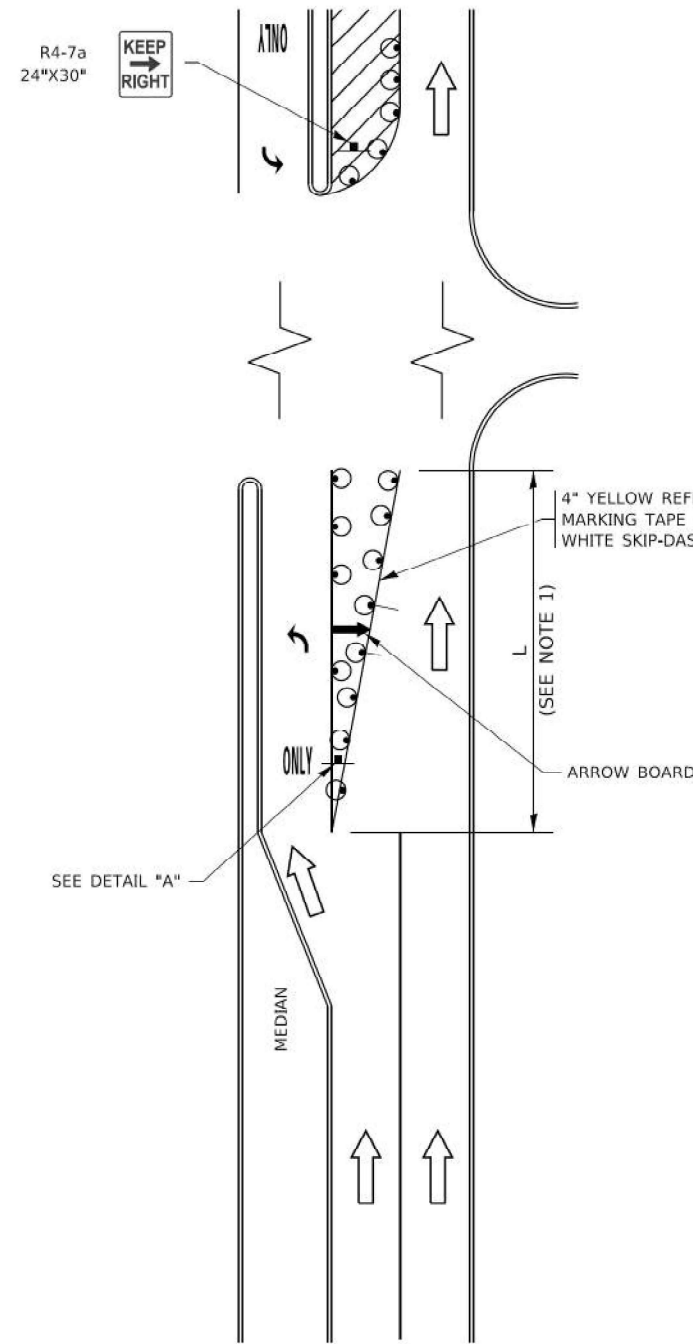
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC CONTROL AND PROTECTION DETAIL**

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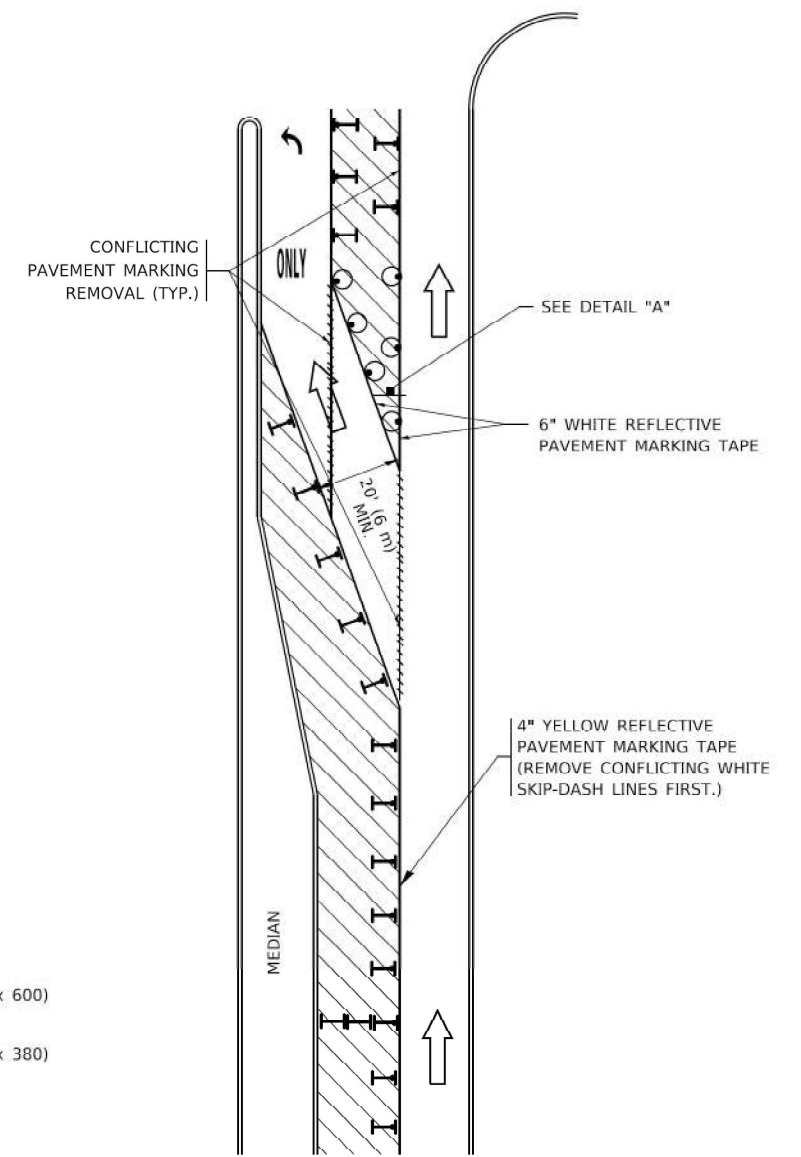
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XXX	2024-984-TS	VARIOUS	89	87
<b>TC-10</b>			CONTRACT NO. 62W89	
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# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



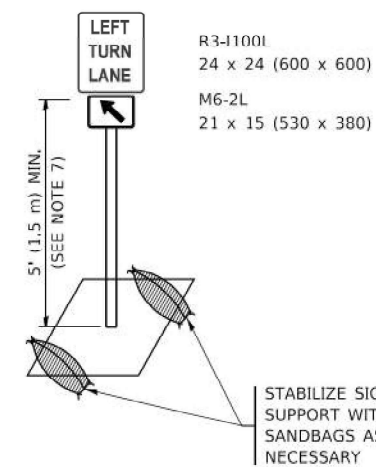
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### 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**

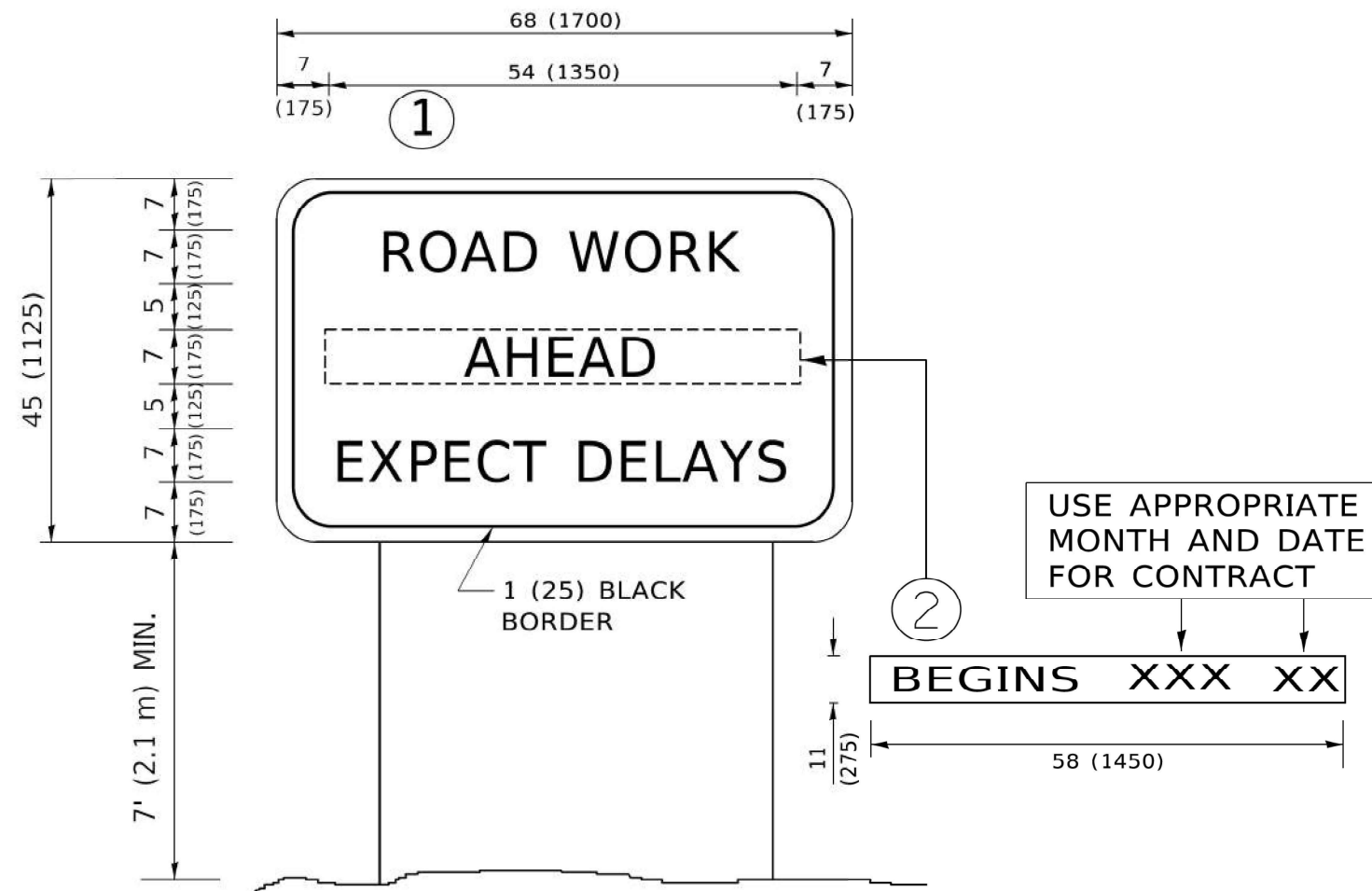
All dimensions are in inches (millimeters) unless otherwise shown.

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**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.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC CONTROL AND PROTECTION DETAIL**

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

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