

09/23/2022 LETTING, ITEM 051

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	19-DCCSS-04-TL	DUPAGE	293	1
		ILLINOIS	CONTRACT NO. 61H96	

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4 - 7

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

VARIOUS ROUTES, VARIOUS LOCATIONS  
SECTION NO. 19-DCCSS-04-TL  
PROJECT NO. 9CTW(805)  
CENTRAL SIGNAL SYSTEM EXPANSION 4  
DuPAGE COUNTY

C-91-096-22



THIS PROJECT IS LOCATED IN:  
THE CITIES OF DARIEN, NAPERVILLE, WHEATON, AND WOOD DALE AND THE VILLAGES OF BLOOMINGDALE, BURR RIDGE, CAROL STREAM, DOWNERS GROVE, GLENDALE HEIGHTS, HINSDALE, ITASCA, LISLE, LOMBARD, OAK BROOK, ROSELLE, WESTMONT, WILLOWBROOK, WINFIELD AND WOODRIDGE.



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

SEE SHEET 3 FOR LOCATION MAP



ADDISON, BLOOMINGDALE, DOWNERS GROVE, LISLE,  
MILTON, WAYNE, AND YORK TOWNSHIPS

LOCATION MAP  
NO SCALE



**DLZ**  
*Del W. [Signature]*  
SIGNATURE  
07/06/22 DATE  
11/30/23 EXPIRES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED *[Signature]* 07/14/22 DATE

DUPAGE COUNTY DIVISION OF TRANSPORTATION  
DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER

PASSED *[Signature]* JULY 19, 2022 DATE  
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW *[Signature]* July 19, 2022 DATE  
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL

CONTRACT NO. 61H96

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## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15'(4.5M) TO 24"(600MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE 15'(4.5M) TO 24"(600MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE MORE THAN 15'(4.5M) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS $\geq$ 45 MPH
701427-05	LANE CLOSURES, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS $\leq$ 40 MPH
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
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OF CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING

## GENERAL NOTES

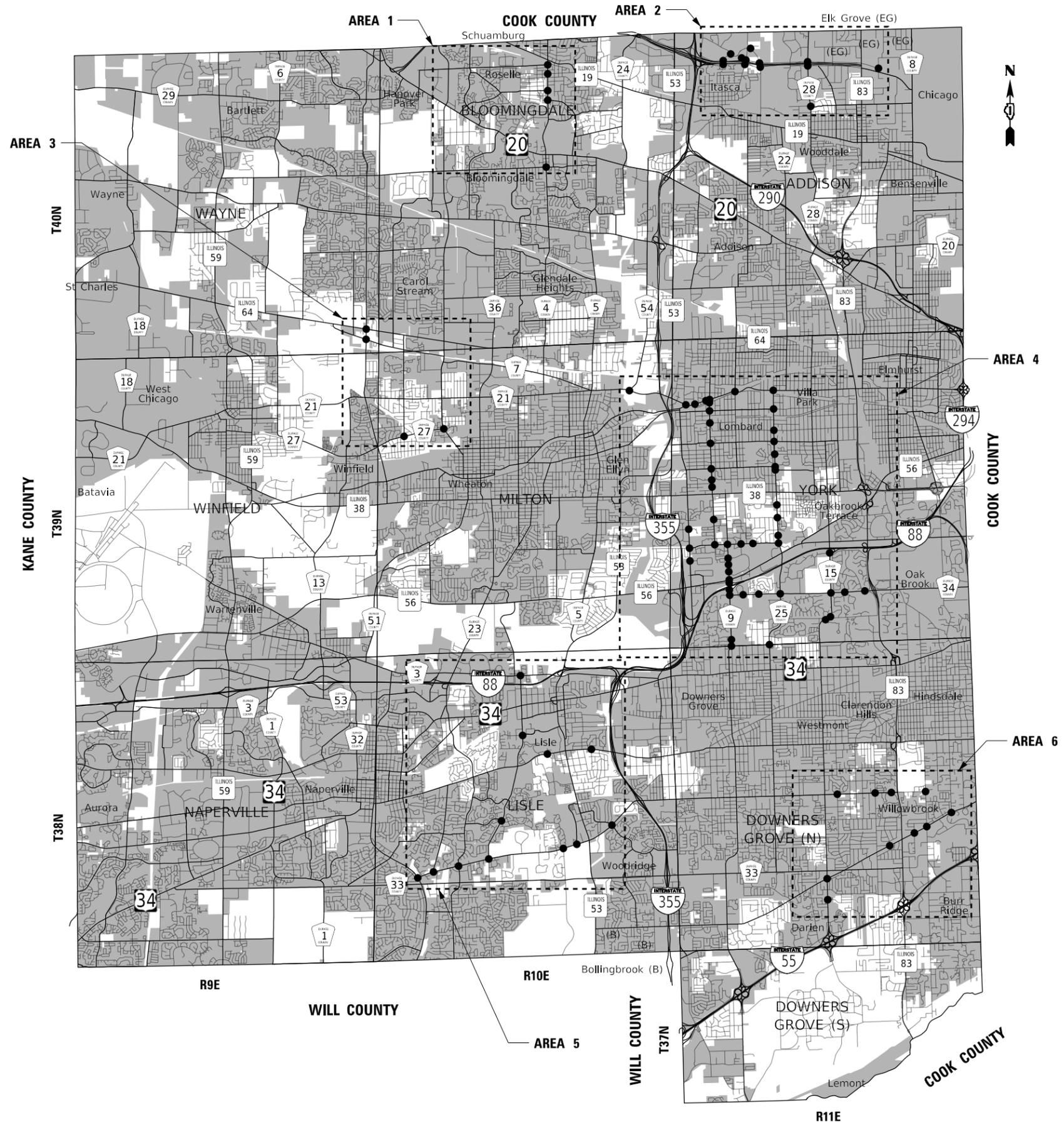
- THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2022; MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION; PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION; THE CITY OF DARIEN, NAPERVILLE, WHEATON, AND WOOD DALE; THE VILLAGES OF BLOOMINGDALE, BURR RIDGE, CAROL STREAM, DOWNERS GROVE, GLENDALE HEIGHTS, HINSDALE, ITASCA, LISLE, LOMBARD, OAK BROOK, ROSELLE, WESTMONT, WILLOWBROOK, WINFIELD AND WOODRIDGE; THE DUPAGE COUNTY DIVISION OF TRANSPORTATION; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION; AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.
- THE STANDARDS SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT.
- THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.
- EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION IS BASED ON RECORD INFORMATION PROVIDED BY THE INDIVIDUAL UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACT SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND THE CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES, AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES MUNICIPALITIES, AND IDOT FOR LOCATES, THE CONTRACTOR SHALL CALL 'JULIE' AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, AND IDOT.
- THIS PROJECT INVOLVES THE INSTALLATION OF CONDUIT; HANDHOLES; UPGRADED OR REPLACEMENT CONTROLLERS AND CABINETS; FIBER-OPTIC CABLE; PTZ CAMERAS AND THEIR PERIPHERALS AND CABLES; AND MOUNTING POLES AT LOCATIONS SHOWN ON THE PLANS.
- THESE PLANS USE EXISTING PLANS AS BACKGROUND WHERE POSSIBLE. THE CONTRACTOR SHALL USE CARE TO CORRECTLY DISTINGUISH PROPOSED WORK FROM THE EXISTING WORK. CALLOUTS AND OTHER INFORMATION IN THE BACKGROUND OF THE VIDEO CAMERA INSTALLATION, COMMUNICATION NODES, AND COMMUNICATION INTERCONNECT PLAN SHEETS ARE NOT APPLICABLE TO THIS CONTRACT. APPLICABLE ITEMS ON THESE SHEETS ARE IDENTIFIED BY BOLD CALLOUTS. BACKGROUNDS HAVE BEEN LIGHTENED TO HIGHLIGHT THE DISTINCTION BETWEEN BOLD CALLOUTS AND BACKGROUNDS.
- RIGHT-OF-WAY LINES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED WITHIN EXISTING COUNTY, CITY OR STATE RIGHT-OF-WAY. THIS PROJECT INVOLVES NO RIGHT-OF-WAY ACQUISITION.
- THE SYSTEM COMMUNICATIONS ARE INTENDED TO OPERATE USING BOTH EXISTING AND PROPOSED FIBER OPTIC CABLES. INTERCONNECT SCHEMATICS ARE INCLUDED FOR AREAS THAT INVOLVE PROPOSED FIBER OPTIC CABLE. SHEETS SHOWING EXISTING CABLES ARE ALSO INCLUDED FOR INFORMATION ONLY.
- THE CONTRACTOR SHALL COORDINATE WITH DUDOT AND THE VILLAGE OF LOMBARD FOR THE LOCATION AND ORIENTATION OF EACH PROPOSED PTZ CAMERA PRIOR TO CAMERA INSTALLATION.
- THE CONTRACTOR SHALL MARK THE RECORD DRAWINGS TO REFLECT ANY CHANGES TO THE PLANS, THE RECORD DRAWING REQUIREMENTS ARE IDENTIFIED IN SECTION 801.16 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALAPANA-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- REMOVAL NOTES INDICATE THE EQUIPMENT IN USE AT THE TIME THE PLANS WERE PREPARED AND SERVE AS GUIDANCE TO THE CONTRACTOR. IN CASES WHERE THE CONTROLLER TYPE AND MODEL DIFFER FROM THE NOTES IN THE PLANS, THE CONTRACTOR SHALL CONFIRM DISPOSAL WITH DUPAGE COUNTY PRIOR TO SALVAGING. IN NO CASE SHALL THE CONTRACTOR DISPOSE OF AN ASC/3, COBALT, AS2/M MASTER, M-50 SERIES, OR M-60 SERIES CONTROLLER. THESE CONTROLLERS REMAIN THE PROPERTY OF DUPAGE COUNTY AND SHALL BE RETURNED UNLESS WRITTEN AUTHORIZATION IS PROVIDED BY THE DUPAGE COUNTY DOT TRAFFIC ENGINEER.
- ABBREVIATIONS HAVE BEEN USED THROUGHOUT THE PLANS. SEE ARTICLE 101.01 OF THE STANDARD SPECIFICATIONS, STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS (STANDARD 000001), AND DISTRICT ONE DETAIL STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05) FOR MOST ABBREVIATIONS. IN ADDITION, THE FOLLOWING ABBREVIATIONS HAVE BEEN USED IN THE PLANS AND ARE TO BE CONSTRUED THE SAME AS THE RESPECTIVE EXPRESSIONS REPRESENTED:

ATMS	ADVANCED TRAFFIC MANAGEMENT SYSTEM
CCTV	CLOSED-CIRCUIT TELEVISION
HAR	HIGHWAY ADVISORY RADIO
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
ISTHA	ILLINOIS STATE TOLL HIGHWAY AUTHORITY
ITS	INTELLIGENT TRANSPORTATION SYSTEM
DUDOT	DUPAGE COUNTY DIVISION OF TRANSPORTATION
TMC	TRAFFIC MANAGEMENT CENTER
ONC	OUTDOOR NETWORK CABLE
- THE QUANTITY FOR ROD AND CLEAN EXISTING CONDUIT IS FOR USE WITH EXISTING CONDUITS WHICH HAVE ALL EXISTING CABLES AND FIBER REMOVED, PRIOR TO INSTALLING PROPOSED CABLE AND/OR FIBER IN THE EXISTING CONDUIT.
- CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
- PROPOSED DETECTION ZONES FOR VEHICLE DETECTION SYSTEM, SPECIAL HAVE BEEN SHOWN ON PLAN SHEETS AT NEW LOCATIONS. AT LOCATIONS WHERE EXISTING VEHICLE DETECTION SYSTEMS ARE IN USE, EXISTING DETECTION ZONES MAY BE SHOWN IF RECORDS EXISTING INDICATING THE DETECTION ZONES. THE PROPOSED DETECTION ZONES AT LOCATION WITH EXISTING VEHICLE DETECTION SYSTEMS ARE TO BE THE SAME AS THE EXISTING DETECTION ZONES, UNLESS DIRECTED BY THE ENGINEER OTHERWISE.

## COMMITMENTS

NO COMMITMENTS WERE MADE FOR THIS PROJECT.

	USER NAME = dwiktorzak	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -						VAR.	19-DCCSS-04-TL	DUPAGE	293	2	
	PLOT DATE = 7/7/2022	DATE -	REVISED -		SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.	CONTRACT NO. 61H96			
											ILLINOIS	FED. AID PROJECT		



**LEGEND**

- PROPOSED IMPROVEMENT AREA
- PROPOSED SIGNAL IMPROVEMENT LOCATION

NOTE:  
 PROPOSED WORK IS LOCATED AT 6 AREAS WITHIN DUPAGE COUNTY.  
 MORE DETAILED LOCATION MAPS ARE INCLUDED FOR EACH AREA ON  
 THE FOLLOWING PAGES:

LOCATION	SHEETS
AREA 1 LOCATION MAP	8
AREA 2 LOCATION MAP	23
AREA 3 LOCATION MAP	52
AREA 4 LOCATION MAP	62 - 63
AREA 5 LOCATION MAP	223
AREA 6 LOCATION MAP	254

MODEL Location Map  
 FILE NAME: 2023032021212121400\_Dupage\_DOT\_CentralCADD\_StreetshpLocation\_map.dgn



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 12000.0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

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

**LOCATION MAP**  
**DUPAGE COUNTY**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	293	3
			CONTRACT NO. 61H96	
		ILLINOIS FED. AID PROJECT		

SPEC. PROV.	CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% DUPAGE COUNTY									
					TRAFFIC SIGNAL									
					0021									
					URBAN									
AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6									
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	155	5	10	5	110	15	10				
*	66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GALLON	3805	135	260	100	2710	370	230				
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	18	1	1	1	12	2	1				
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	11	0.5	1	0.5	7.5	1	0.5				
	67100100	MOBILIZATION	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.17	0.17	0.17	0.17	0.16	0.16				
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	931				702	153	76				
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	962				962						
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	661	64	100		357	140					
D1	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	124952	7217	4766	4871	71485	22852	13761				
	81104580	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	1001				297	704					
	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	15				5	10					
D1, D, SP	81400100	HANDHOLE	EACH	198	9	8	9	111	41	20				
D1, D, SP	81400200	HEAVY-DUTY HANDHOLE	EACH	3				3						
D1, D, SP	81400300	DOUBLE HANDHOLE	EACH	3				3						
D1, D	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	129	6	15	4	62	29	13				
D1	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1				1						

\* SPECIALITY ITEM  
 \*\* CONSTRUCTION CODE 0042

D1 DISTRICT 1 SPECIAL PROVISION  
 BDE BUREAU OF DESIGN SPECIAL PROVISION  
 D DUDOT SPECIAL PROVISION  
 SP SPECIAL PROVISION



USER NAME = zhoerbert	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / In.	DRAWN -	REVISED -
PLOT DATE = 6/15/2022	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-04-TL	DUPAGE	293	4
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	

SPEC. PROV.	CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% DUPAGE COUNTY					
					TRAFFIC SIGNAL					
					0021					
					URBAN					
AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6					
	86400100	TRANSCEIVER - FIBER OPTIC	EACH	5	1			2	2	
D1	87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	164	4	10		146	4	
D1	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	171056	8970	6750	5550	106476	26745	16565
D1	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	1792	165	160	34	1071	93	269
D1	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	25704	798	1561	34	22292	750	269
	87900200	DRILL EXISTING HANDHOLE	EACH	166	14	8	4	102	22	16
	88500100	INDUCTIVE LOOP DETECTOR	EACH	117	7	13		94	3	
	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1					
D1	89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	29		2		25	1	1
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	53422	5285	1250	14	39416	1264	6193
D1, D	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	63	2	3	1	50	3	4
	89502380	REMOVE EXISTING HANDHOLE	EACH	20				11	1	8
SP	X0322765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	5				5		
D1	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	20148	1970	925	14	16981	73	185
SP	X0326104	RELOCATE RADAR DETECTOR SYSTEM	EACH	2				1	1	
D	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	8914	235	1314		6495	279	591
D	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2				1		1
D	X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	8		1		7		
SP	X1400170	FIBER OPTIC SPLICE CLOSURE, WATERTIGHT	EACH	36				36		
D	X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	47	1	5		36	1	4
D	X1400216	LAYER II (DATALINK) SWITCH	EACH	73	4	13		45	3	8
D	X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	21	1	10		10		
D	X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	78	4	13	1	44	9	7
SP	X1400335	WIRELESS TRANSMISSION SYSTEM POINT TO POINT	EACH	2		2				
D	X1400460	LAYER III (NETWORK) SWITCH	EACH	8		1		7		

\* SPECIALITY ITEM  
\*\* CONSTRUCTION CODE 0042

D1 DISTRICT 1 SPECIAL PROVISION  
BDE BUREAU OF DESIGN SPECIAL PROVISION  
D DUDOT SPECIAL PROVISION  
SP SPECIAL PROVISION



USER NAME = zhoerbert  
DESIGNED -  
DRAWN -  
PLOT SCALE = 100.0000' / in.  
CHECKED -  
PLOT DATE = 6/15/2022  
DATE -

REVISOR -  
REVISION -  
REVISOR -  
REVISION -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-04-TL	DUPAGE	293	5
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	

SPEC. PROV.	CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% DUPAGE COUNTY					
					TRAFFIC SIGNAL					
					0021					
					URBAN					
AREA 1	AREA 2	AREA 3	AREA 4	AREA 5	AREA 6					
SP	X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	20	2	3	1	10	1	3
D	X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	25	1	1		15	2	6
D	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	30	1	2		25	1	1
D	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	25	2	3	1	12	3	4
D	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	13035	3240		1175		1745	6875
D	X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	187257	7610	6820	4535	133967	24515	9810
SP	X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	58	3	12	1	25	9	8
SP	X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	28018	3160	1095		21981		1782
SP	XX005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	22				22		
D	XX007017	TERMINATE FIBER IN CABINET	EACH	410	8	198		92	76	36
SP	XX007029	RELOCATE EXISTING TRANSCEIVER	EACH	1				1		
SP	XX007536	PAINT TRAFFIC SIGNAL EQUIPMENT	EACH	3				3		
D	XX007622	ELECTRIC METER	EACH	9	2			5	2	
D	XX007952	TERMINAL SERVER	EACH	2				2		
D	XX008251	SPLICE FIBER IN CABINET	EACH	182		50		40	86	6
D	XX008254	LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE	EACH	47	1	4		35	6	1
D	XX008396	CAMERA MOUNTING ASSEMBLY, SPECIAL	EACH	5				5		
D	XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	22	1			18	1	2
D1	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1			1			
D1	Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	2				1		1
**	BDE	Z0076600	TRAINEES	HOUR	1000					
**	BDE	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000					
SP	XX009537	WIRELESS TRANSMISSION SYSTEM SUBSCRIBER UNIT	EACH	1		1				
SP	XX009538	FIBER CONNECTION, BUILDING NO. 1	L SUM	1				1		
SP	XX009539	FIBER CONNECTION, BUILDING NO. 2	L SUM	1				1		

\* SPECIALITY ITEM  
 \*\* CONSTRUCTION CODE 0042

D1 DISTRICT 1 SPECIAL PROVISION  
 BDE BUREAU OF DESIGN SPECIAL PROVISION  
 D DUDOT SPECIAL PROVISION  
 SP SPECIAL PROVISION



USER NAME = dwitorzak  
 PLOT SCALE = 100.0000" / 1"  
 PLOT DATE = 7/7/2022

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-04-TL	DUPAGE	293	6
CONTRACT NO.			61H96	
ILLINOIS FED. AID PROJECT				

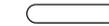




**LEGEND**



PROPOSED INTERCONNECT AREA - SEE INTERCONNECT PLANS



PROPOSED SIGNAL IMPROVEMENT CORRIDOR



PROPOSED SIGNAL IMPROVEMENT LOCATION



**AREA 1**

**INTERSECTION PLANS**

#	LOCATION	SHEETS
24	BLOOMINGDALE RD AND SCHICK RD	10
61	ROSELLE RD AND WALNUT CT	11
58	ROSELLE RD AND BRYN MAWR AVE	12
60	ROSELLE RD AND MAPLE AVE	13
59	ROSELLE RD AND CENTRAL AVE	14 - 16

**INTERCONNECT PLANS**

LOCATION	SHEETS
(A) BLOOMINGDALE RD/ROSELLE RD	17 - 21



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 2000.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 1  
AREA 1 LOCATION MAP**

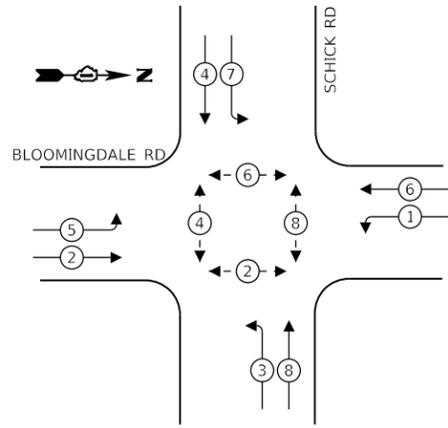
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	8
			CONTRACT NO.	61H96
		ILLINOIS	FED. AID PROJECT	

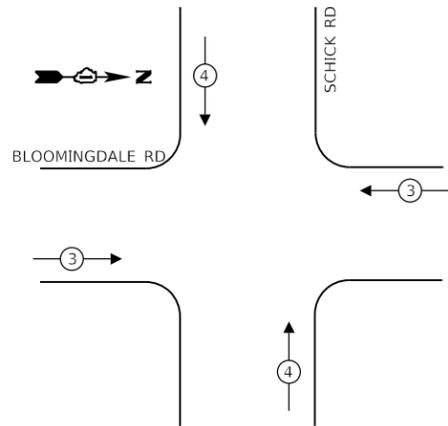
**AREA 1 SIGNAL IMPROVEMENTS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL	ROSELLE RD AND				
				BLOOMINGDALE RD AND SCHICK RD	WALNUT ST/WALNUT CT	BRYN MAWR AVE	MAPLE AVE	CENTRAL AVE/MAIN ST
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5	1	1	1	1	1
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1			1		
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4			4		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	165			117	48	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	798			750	48	
88500100	INDUCTIVE LOOP DETECTOR	EACH	7			7		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2125			97	56	1972
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2			1	1	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	125			97	28	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	235					235
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1					1
X1400216	LAYER II (DATALINK) SWITCH	EACH	4		1	1	1	1
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1		1			
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	4		1	1	1	1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	2			1	1	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1				1	
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1			1		
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2			1	1	
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	3		1		1	1
XX007622	ELECTRIC METER	EACH	2		1			1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1					1

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**LEGEND:**

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

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				967

ENERGY COSTS TO:

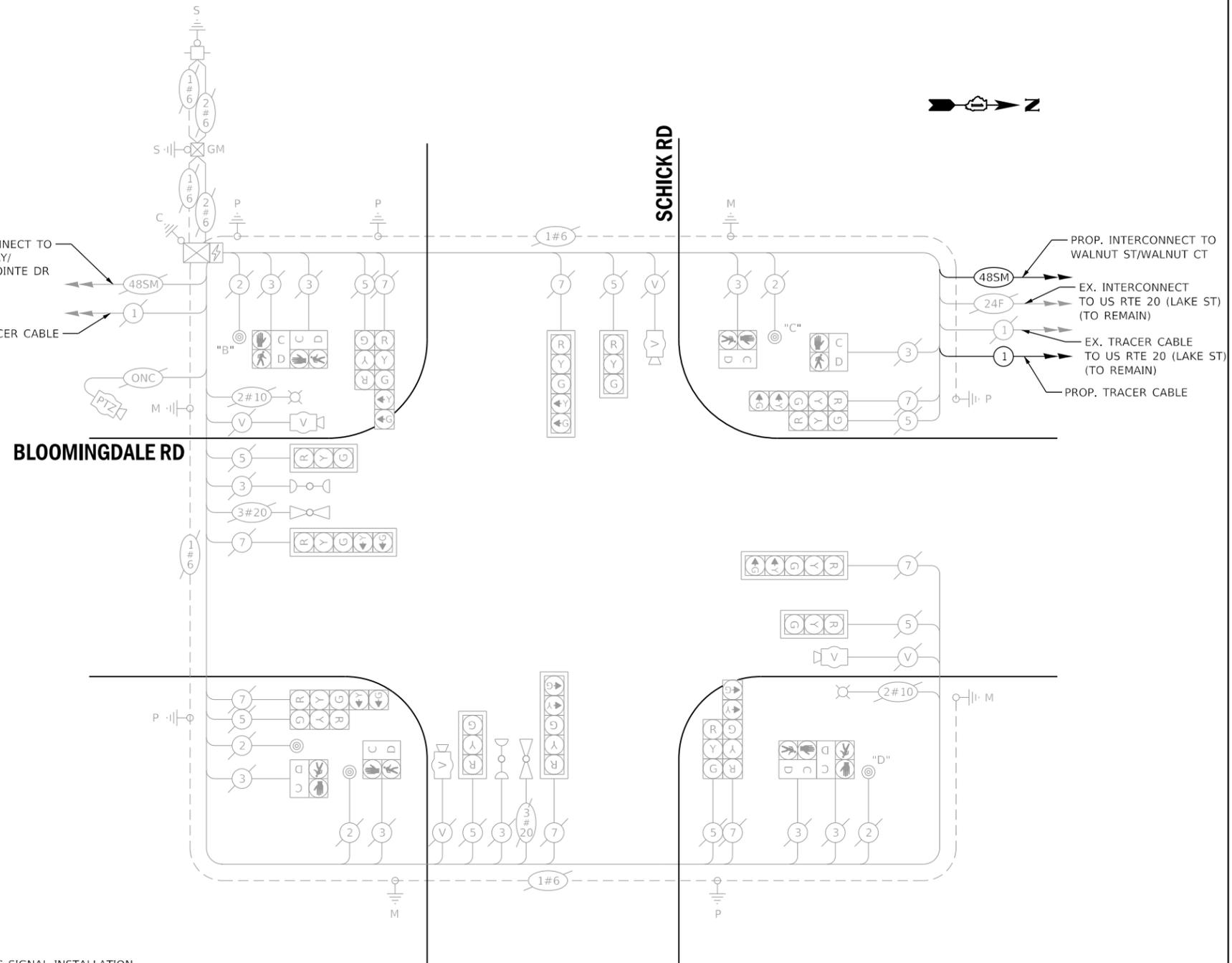
**VILLAGE OF BLOOMINGDALE**

201 S. BLOOMINGDALE RD  
BLOOMINGDALE, IL 60108

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION



PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6.  
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8.  
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 2 AND 8.

**CABLE PLAN**

(NOT TO SCALE)

TRAFFIC SIGNAL BEING MODIFIED BY IDOT  
CONTRACT #61H22

THIS INTERSECTION SHALL REMAIN ON THE  
IDOT CLOSED LOOP SYSTEM "ECON 47".

**DUDOT  
ECON 47**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

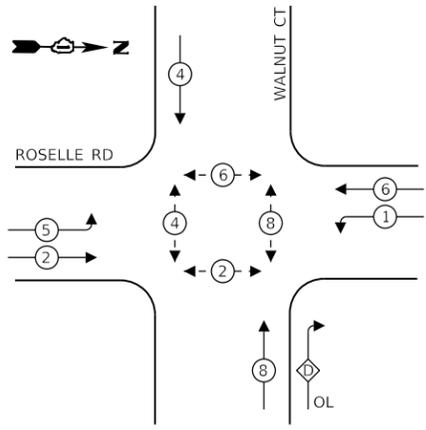
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 1  
BLOOMINGDALE RD & SCHICK RD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	10
			CONTRACT NO.	61H96
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



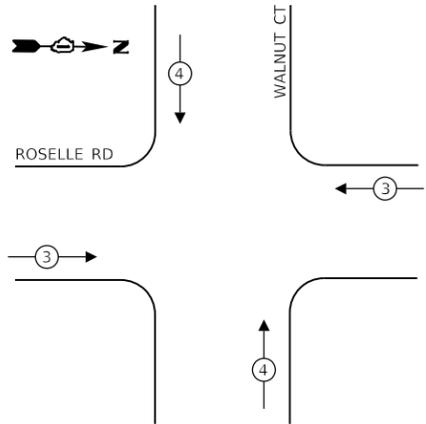
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	83
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				966

ENERGY COSTS TO:

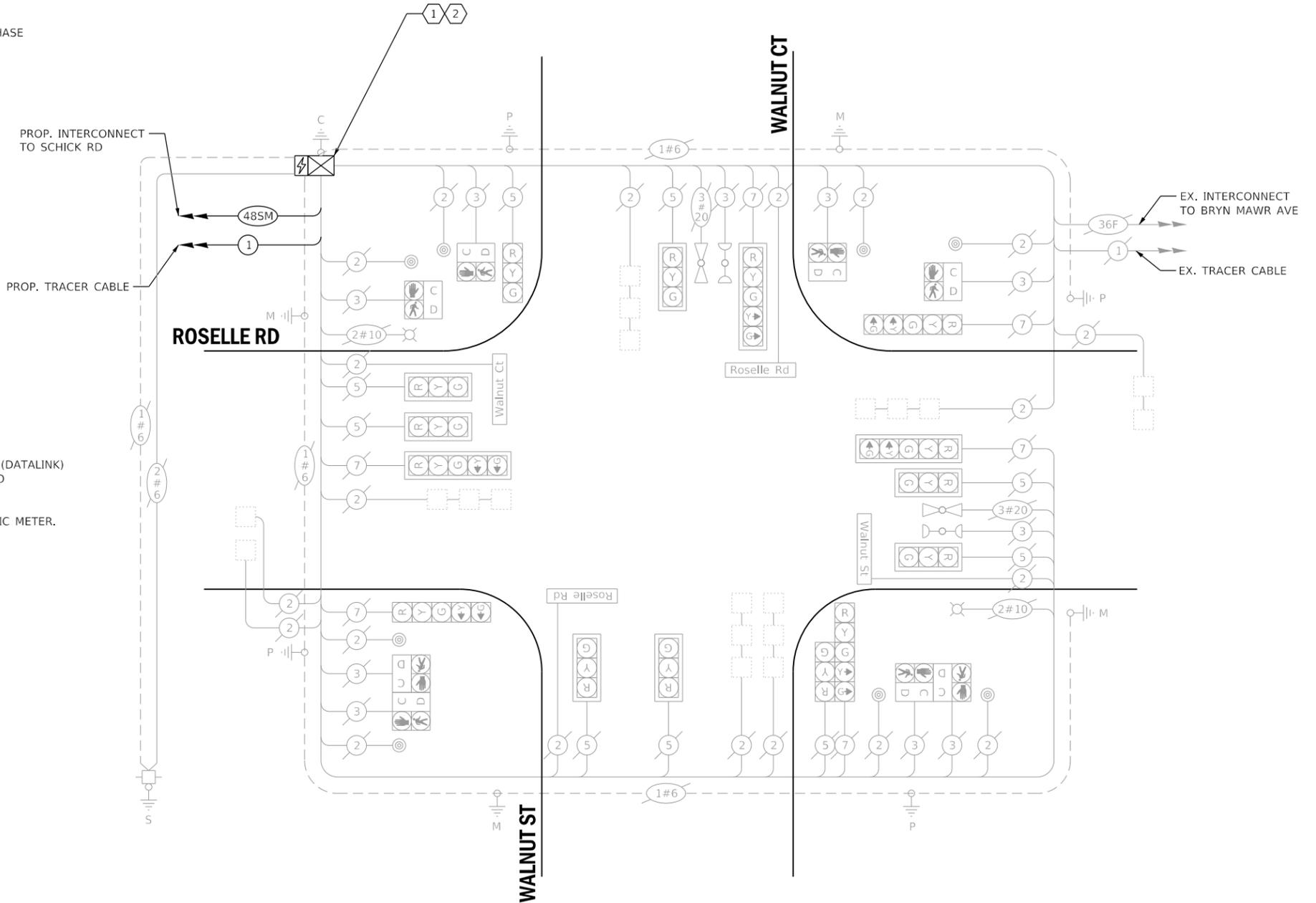
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER



**CABLE PLAN**  
(NOT TO SCALE)

THIS INTERSECTION SHALL BE REMOVED FROM THE IDOT CLOSED LOOP SYSTEM "ECON 98" AND BECOME PART OF THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

<b>DLZ</b>	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - RG	REVISED -
	PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
		DATE -	REVISED -

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

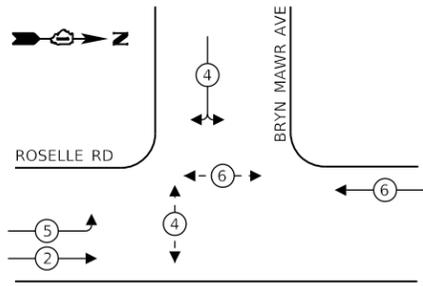
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 1**  
**ROSELLE RD AND WALNUT ST/WALNUT CT**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	11
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**DUDOT**

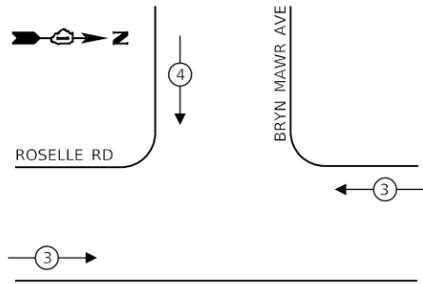
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

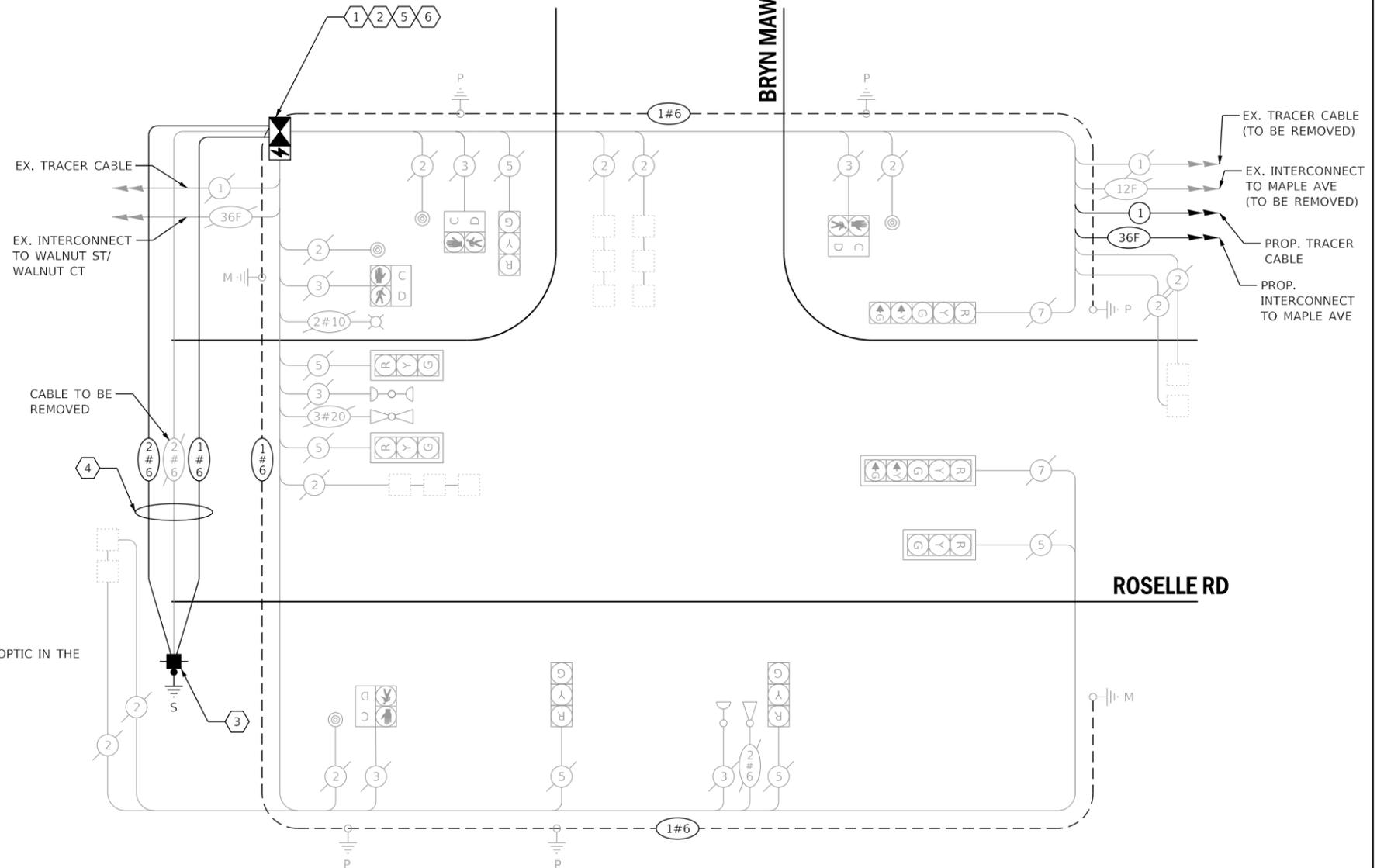
**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. INSTALL LIGHT DETECTOR AMPLIFIER.
- ③ THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ④ THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (97'-E-1 1/2").
- ⑤ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ⑥ THE CONTRACTOR SHALL INSTALL A TRANSCEIVER-FIBER OPTIC IN THE CABINET.

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM OR AS DIRECTED BY THE ENGINEER. THE LAYER II SWITCH SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44
(YELLOW)	8	20	5	8
(GREEN)	8	12	45	44
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	250	50	125
PTZ CAMERA	-	75	100	-
TOTAL =				430

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
117	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C
7	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
97	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
97	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CONTROLLER (ASC/2-2100) AND CABINET (COMPLETE)
- 1 EACH SERVICE INSTALLATION

**CABLE PLAN**  
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MATCH THE EXISTING ADJACENT SYSTEM.

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 98".

ENERGY COSTS TO:  
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

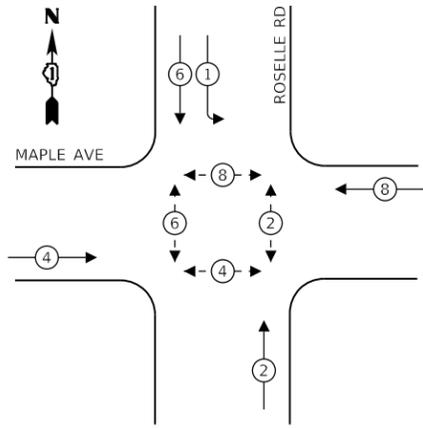
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 1**  
**ROSELLE RD AND BRYN MAWR AVE**

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

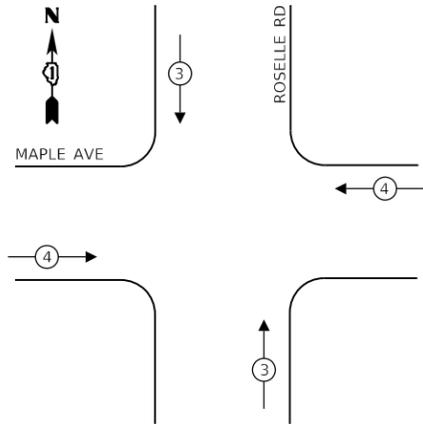
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	12
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**DUDOT**  
**ECON 98**

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CONTROLLER (ASC/2-2100)
- 1 EACH SERVICE INSTALLATION

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (28"-E-1 1/2").
- 5 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
<b>TOTAL =</b>				<b>682</b>

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

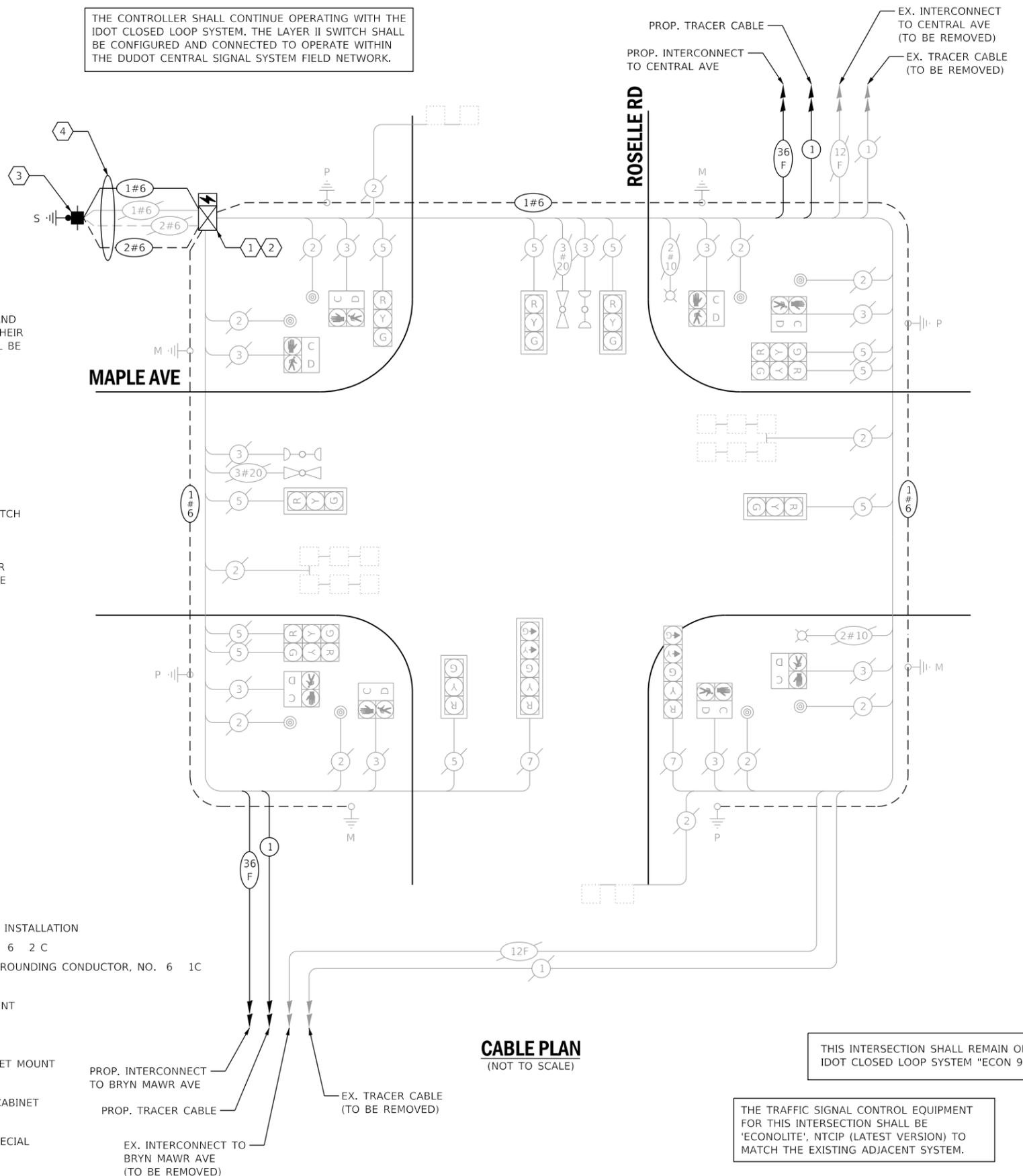
421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
48	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
48	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
56	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
28	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.



**CABLE PLAN**  
(NOT TO SCALE)

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 98".

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MATCH THE EXISTING ADJACENT SYSTEM.

**DUDOT  
ECON 98**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 1  
ROSELLE RD AND MAPLE AVE**

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

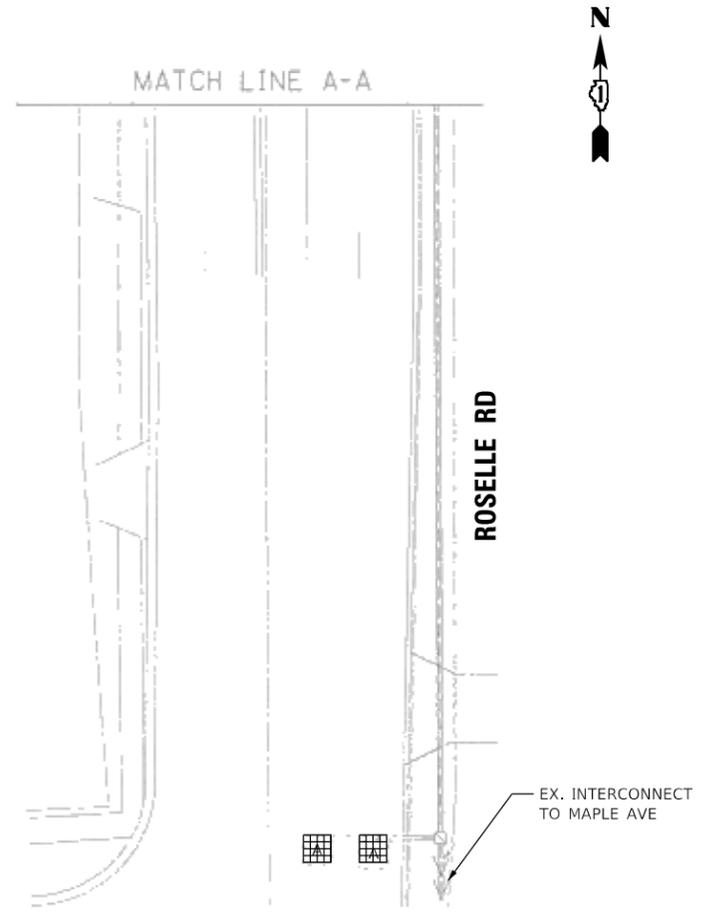
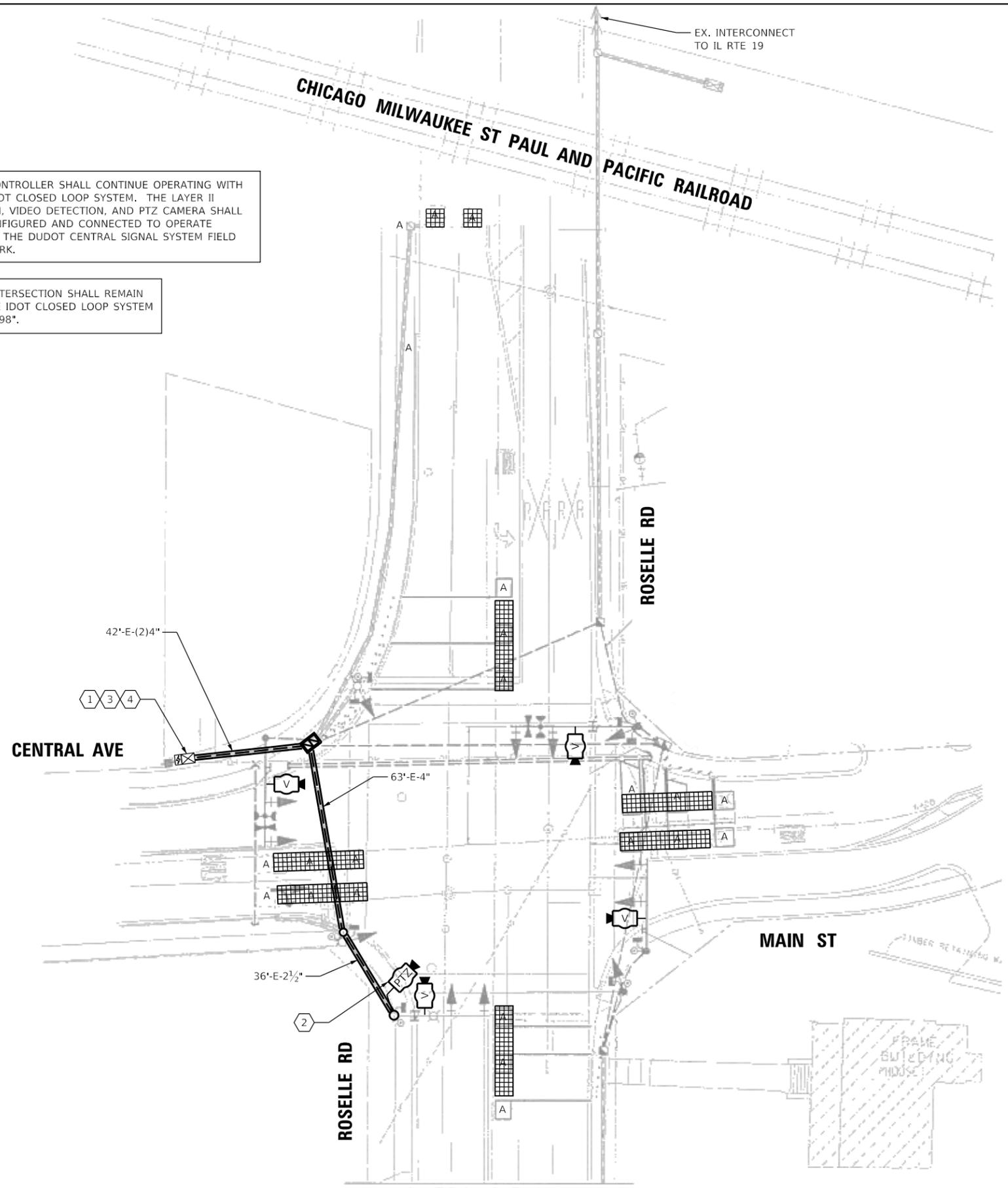
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-DCCSS-04-TL	DUPAGE	293	13
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH, VIDEO DETECTION, AND PTZ CAMERA SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 98".

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- ④ THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL.



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

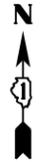
TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 1  
ROSELLE RD & CENTRAL AVE/MAIN ST

SCALE: 1"=20' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	14
			CONTRACT NO.	61H96
ILLINOIS FED. AID PROJECT				

DUDOT  
ECON 98

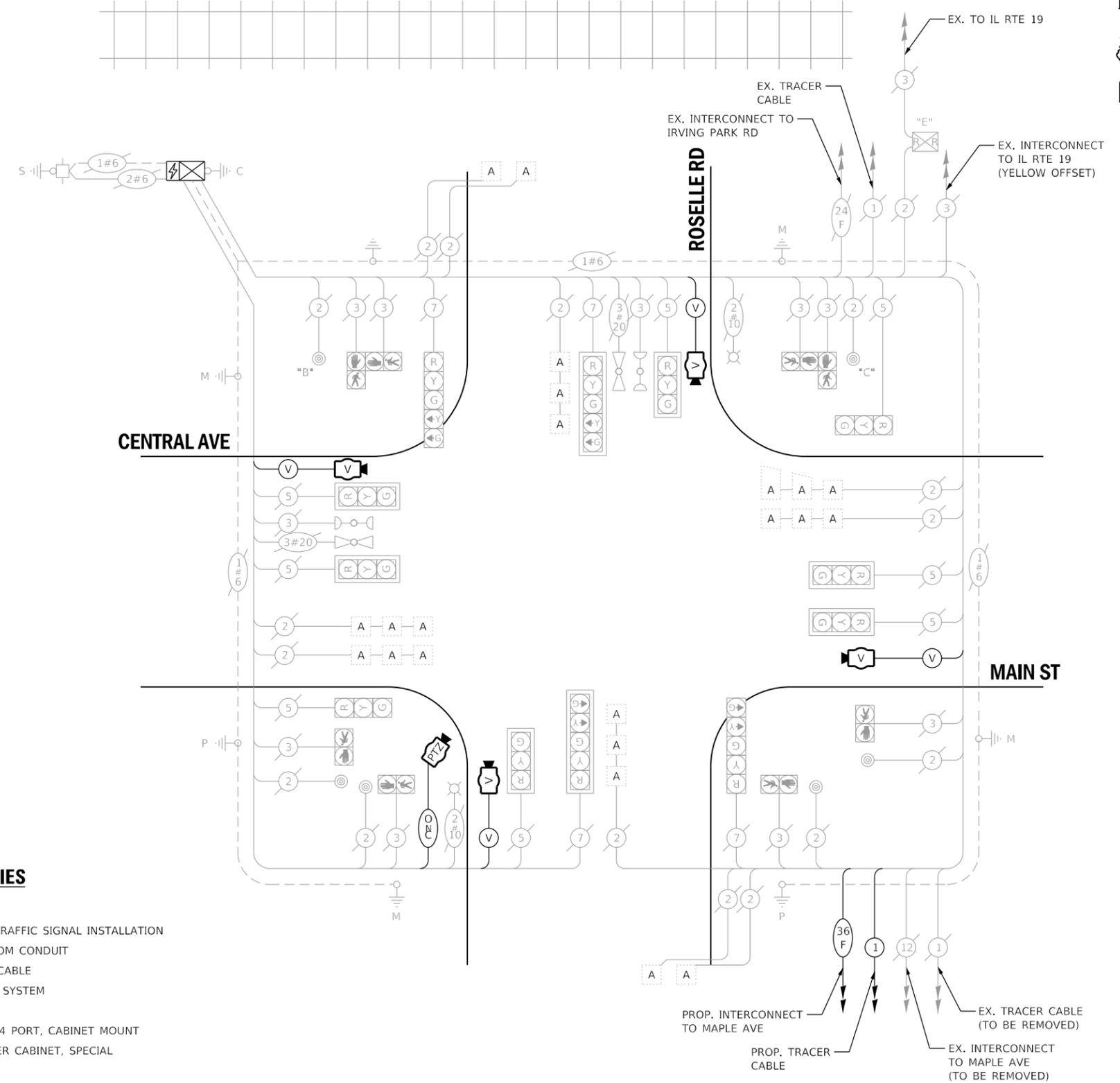
CHICAGO MILWAUKEE ST PAUL AND PACIFIC RAILROAD



THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH, VIDEO DETECTION, AND PTZ CAMERA SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 98".

NO CHANGES SHALL BE MADE TO THE CONTROLLER SEQUENCE WITHOUT ADVANCED APPROVAL FROM THE ILLINOIS COMMERCE COMMISSION (ICC). ANY CHANGE TO THE CRC VALUES RESULTING FROM THE PROPOSED WORK SHALL BE DOCUMENTED BY THE VENDOR AND REPORTED TO DUDOT AND THE ICC.



**CABLE PLAN**  
(NOT TO SCALE)

NOTES:  
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6  
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				661

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1972	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
235	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

ENERGY COSTS TO:  
**DUPAGE COUNTY D.O.T.**  
421 N. COUNTY FARM RD.  
WHEATON, IL 60187  
ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 1**  
**ROSELLE RD AND CENTRAL AVE/MAIN ST**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	15
CONTRACT NO.				61H96
ILLINOIS		FED. AID PROJECT		



USER NAME =	dwiktorzak	DESIGNED -	ZH	REVISED -	
		DRAWN -	RG	REVISED -	
PLOT SCALE =	40.0000 ' / in.	CHECKED -	DW	REVISED -	
PLOT DATE =	6/12/2022	DATE -		REVISED -	

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

**PROPOSED SEQUENCE OF OPERATION**

MOVEMENT						F	L	A	S	H	D	A	R	K						
PHASE	1 + 5				1 + 6		2 + 5		2 + 6		4 + B									
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16A	16B		
CHANGE TO		1+6	2+5	2+6	6	6	2+6	6	6	2+6	6	6	4+B				1+5	1+6	2+5	2+6
ROSELLE ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS N/B	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R
ROSELLE ROAD FAR LEFT AND END MAST ARM SIGNALS N/B	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R
ROSELLE ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS S/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R
ROSELLE ROAD FAR LEFT AND END MAST ARM SIGNALS S/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R
CENTRAL AVENUE ALL SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
MAIN STREET ALL SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING CENTRAL AVE. ON WEST SIDE OF ROSELLE ROAD	H	H	H	H	*P	**FH	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING MAIN ST. ON EAST SIDE OF ROSELLE ROAD	H	H	H	H	H	H	*P	**FH	H	H	*P	**FH	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ROSELLE ROAD ON SOUTH SIDE OF CENTRAL AVE./MAIN ST.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ROSELLE ROAD ON NORTH SIDE OF CENTRAL AVE./MAIN ST.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H

- \* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
  - \*\* FLASHING [FH] IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
  - ◇ THIS [FH] OR FLASHING [FH] INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE [FH] OR FLASHING [FH] INTERVALS. [FH] AND FLASHING [FH] TIMINGS TO BE SET ONLY ON PHASES WHERE [FH] AND FLASHING [FH] ARE INDICATED IN THE SEQUENCE OF OPERATION.
- P = ILLUMINATED PERSON = WALK  
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK  
 H = ILLUMINATED SOLID HAND = DON'T WALK
- PHASE 2+6 SHALL BE PLACED ON RECALL.

**FOR INFORMATION ONLY**

**PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION**

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5	B	11	14	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 2						CLEAR TO NORMAL SEQUENCE			
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER							2	3						◇			
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	2	3	4	5	CLEAR TO NORMAL SEQUENCE
ROSELLE ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS N/B	R	R	Y	R	Y	R	R	Y	R	R	R	R	R	R	R	R	△
ROSELLE ROAD FAR LEFT AND END MAST ARM SIGNALS N/B	R	R	Y	R	Y	R	R	Y	R	R	R	R	R	R	R	R	△
ROSELLE ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS S/B	R	G	R	R	G	G	R	R	G	G	R	R	G	Y	R	R	△
ROSELLE ROAD FAR LEFT AND END MAST ARM SIGNALS S/B	R	G	R	R	G	G	R	R	G	G	R	R	G	Y	R	R	△
CENTRAL AVENUE ALL SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	△
MAIN STREET ALL SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	△
PEDESTRIAN SIGNALS CROSSING CENTRAL AVE. ON WEST SIDE OF ROSELLE ROAD	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING MAIN ST. ON EAST SIDE OF ROSELLE ROAD	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ROSELLE ROAD ON SOUTH SIDE OF CENTRAL AVE./MAIN ST.	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ROSELLE ROAD ON NORTH SIDE OF CENTRAL AVE./MAIN ST.	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	△

△ 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.

HOLD

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION**

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5	5	B	8	11	11	14	14	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	CLEAR TO NORMAL SEQUENCE											
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	2	3	◇	
ROSELLE ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS N/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	G	R	◇
ROSELLE ROAD FAR LEFT AND END MAST ARM SIGNALS N/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	G	R	◇
ROSELLE ROAD NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS S/B	R	G	G	G	Y	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	R	◇
ROSELLE ROAD FAR LEFT AND END MAST ARM SIGNALS S/B	R	G	G	G	Y	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	R	◇
CENTRAL AVENUE ALL SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	◇
MAIN STREET ALL SIGNALS W/B	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 CENTRAL AVE. ON WEST SIDE OF ROSELLE ROAD	H	FH	H	FH	H	H	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING MAIN ST. ON EAST SIDE OF ROSELLE ROAD	H	H	H	H	H	H	FH	H	FH	H	H	H	FH	FH	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING ROSELLE ROAD ON SOUTH SIDE OF CENTRAL AVE./MAIN ST.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING ROSELLE ROAD ON NORTH SIDE OF CENTRAL AVE./MAIN ST.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	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 INTERVAL 2 OR 3 IS TERMINATED.

**DUDOT  
ECON 98**

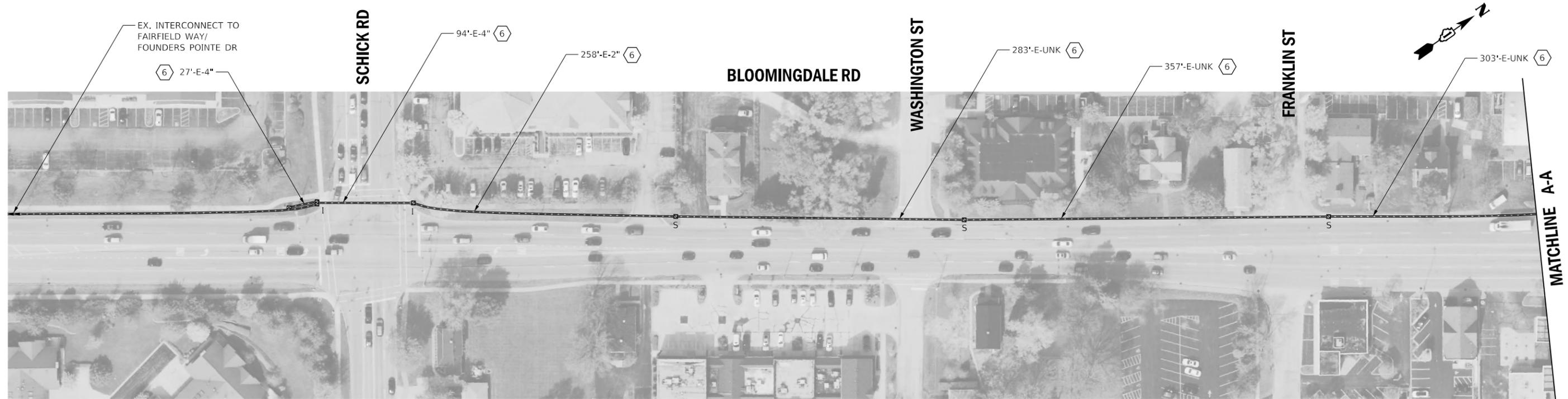


USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 1  
ROSELLE RD AND CENTRAL AVE./MAIN ST**

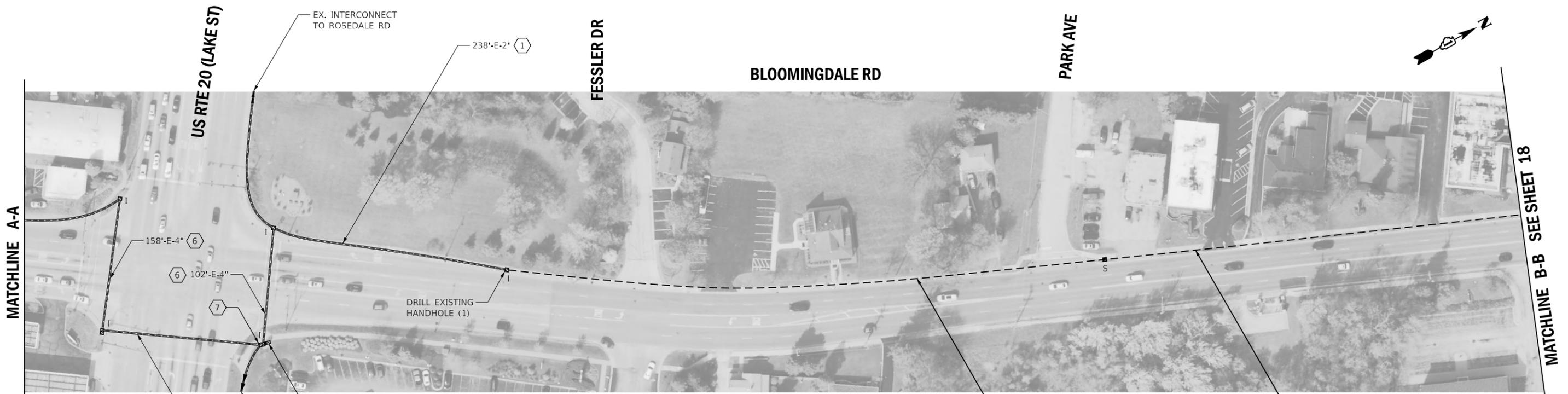
SCALE:	SHEET 7 OF 7 SHEETS	STA.	TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				VAR.	19-DCCSS-04-TL	DUPAGE	293	16
							CONTRACT NO. 61H96	
					ILLINOIS	FED. AID PROJECT		



**NOTES:**

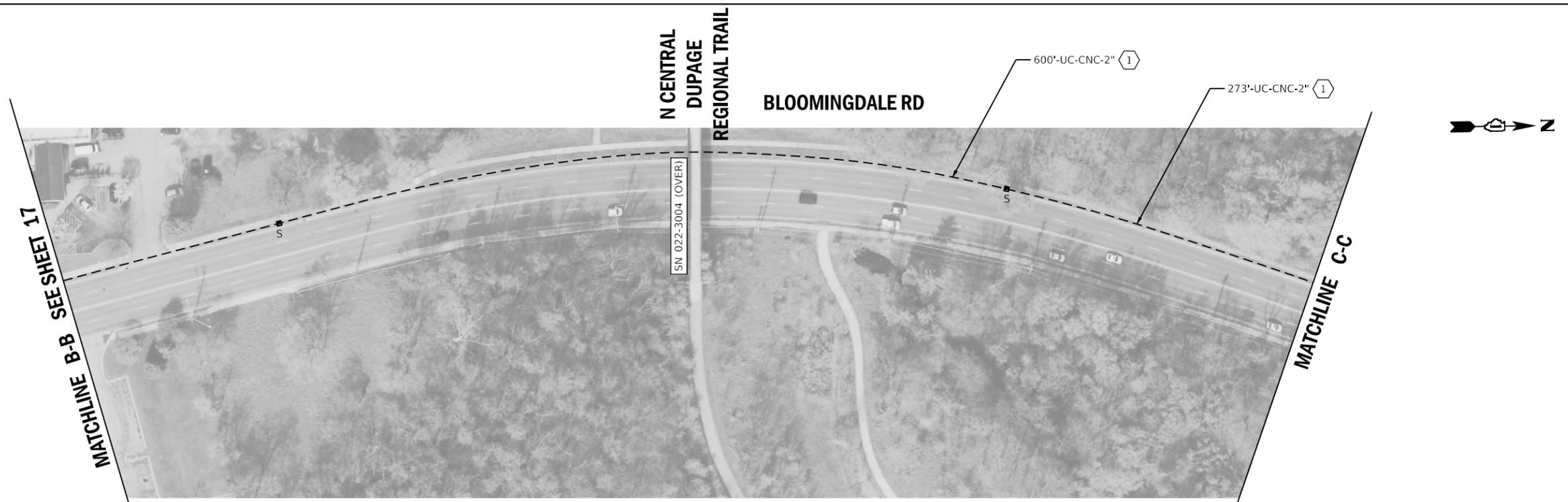
- 1 THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 2 THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION, MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 4 EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.
- 5 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING FIBER OPTIC AND TRACER CABLE.

TRAFFIC SIGNAL PLANS  
SEE SHEET 10



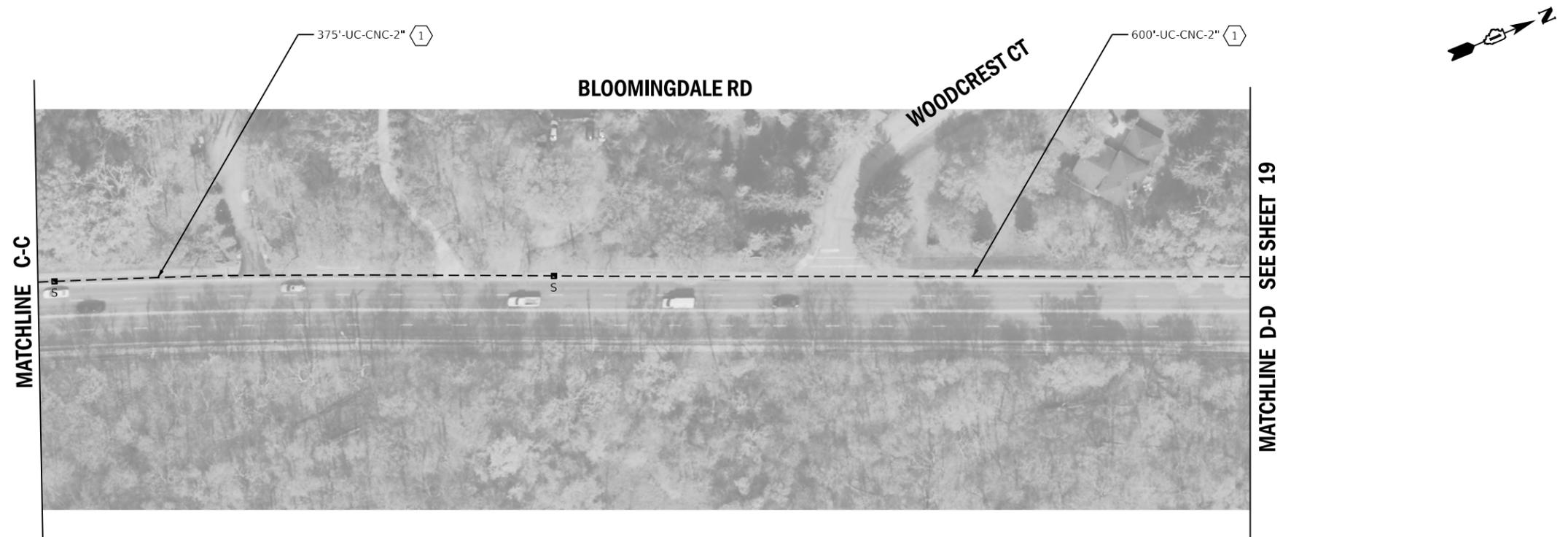
- 6 THE CONTRACTOR SHALL LEAVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE IN OPERATION AND INSTALL PROPOSED FIBER OPTIC AND TRACER CABLE ALONGSIDE IN THE SAME CONDUIT.
- 7 AT THIS INTERSECTION, THE CONTROLLER WILL CONTINUE TO OPERATE ON THE EXISTING FIBER. THE PROPOSED FIBER OPTIC CABLE WILL BYPASS THE CABINET.

	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED INTERCONNECT PLAN - AREA 1 LOCATION A - BLOOMINGDALE RD</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000 ' / in.	CHECKED - ZH	REVISED -		VAR.	19-DCCSS-04-TL	DUPAGE	293	17			
PLOT DATE = 6/13/2022	DATE -	REVISED -	SCALE: 1"=50'			SHEET 1 OF 5 SHEETS STA. TO STA.			CONTRACT NO. 61H96			
ILLINOIS FED. AID PROJECT												



**NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 2 THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION, MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 4 EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.
- 5 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING FIBER OPTIC AND TRACER CABLE.



- 6 THE CONTRACTOR SHALL LEAVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE IN OPERATION AND INSTALL PROPOSED FIBER OPTIC AND TRACER CABLE ALONGSIDE IN THE SAME CONDUIT.
- 7 AT THIS INTERSECTION, THE CONTROLLER WILL CONTINUE TO OPERATE ON THE EXISTING FIBER. THE PROPOSED FIBER OPTIC CABLE WILL BYPASS THE CABINET.



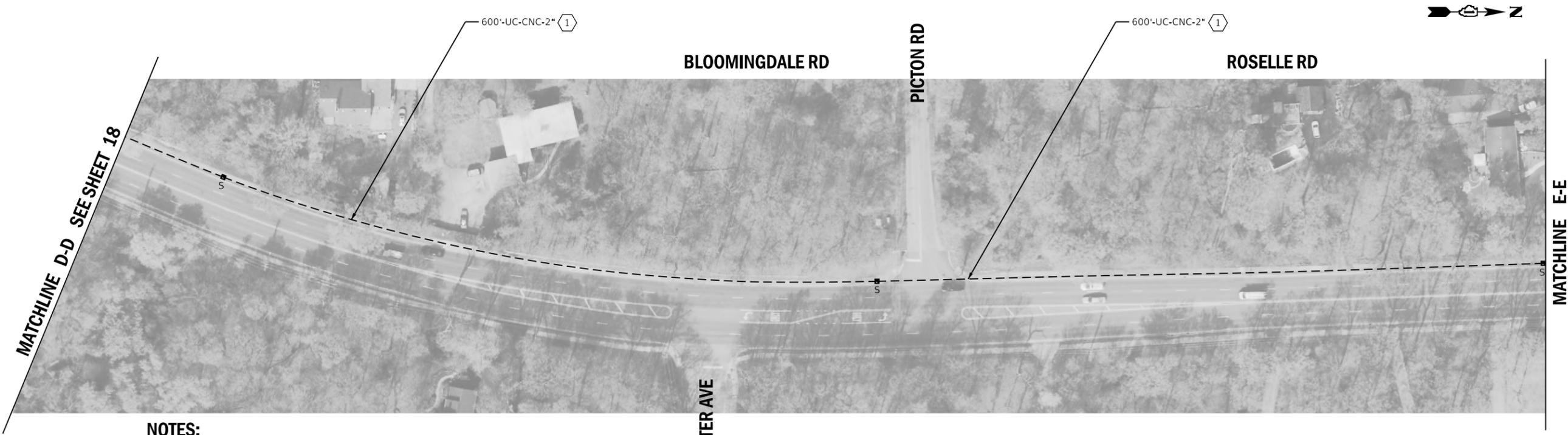
USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN - AREA 1  
LOCATION A - BLOOMINGDALE RD**

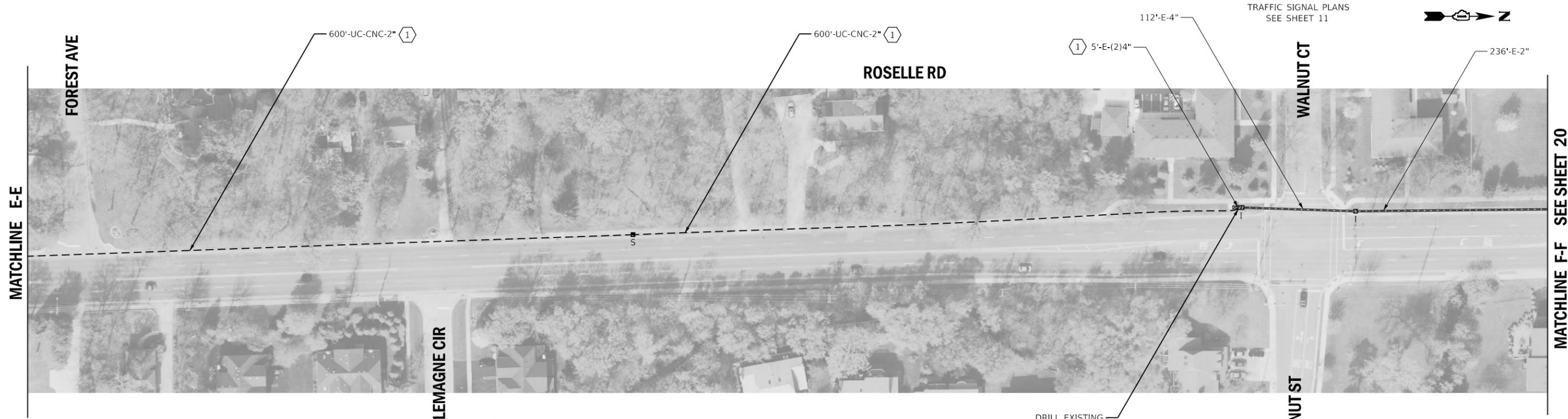
SCALE: 1"=50'      SHEET 2 OF 5 SHEETS      STA.      TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	18
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	



**NOTES:**

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION, MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ④ EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.
- ⑤ THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING FIBER OPTIC AND TRACER CABLE.



- ⑥ THE CONTRACTOR SHALL LEAVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE IN OPERATION AND INSTALL PROPOSED FIBER OPTIC AND TRACER CABLE ALONGSIDE IN THE SAME CONDUIT.
- ⑦ AT THIS INTERSECTION, THE CONTROLLER WILL CONTINUE TO OPERATE ON THE EXISTING FIBER. THE PROPOSED FIBER OPTIC CABLE WILL BYPASS THE CABINET.

DRILL EXISTING HANDHOLE (1)



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

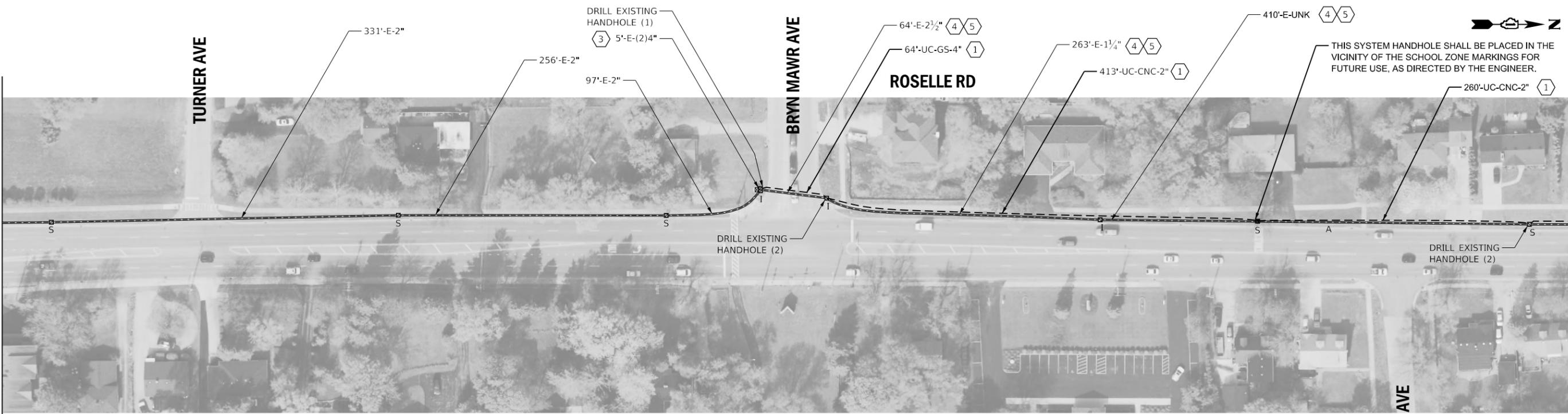
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN - AREA 1  
LOCATION A - ROSELLE RD/BLOOMINGDALE RD**

SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	19
CONTRACT NO. 61H96				
ILLINOIS FED. AID PROJECT				

MATCHLINE F-F SEE SHEET 19



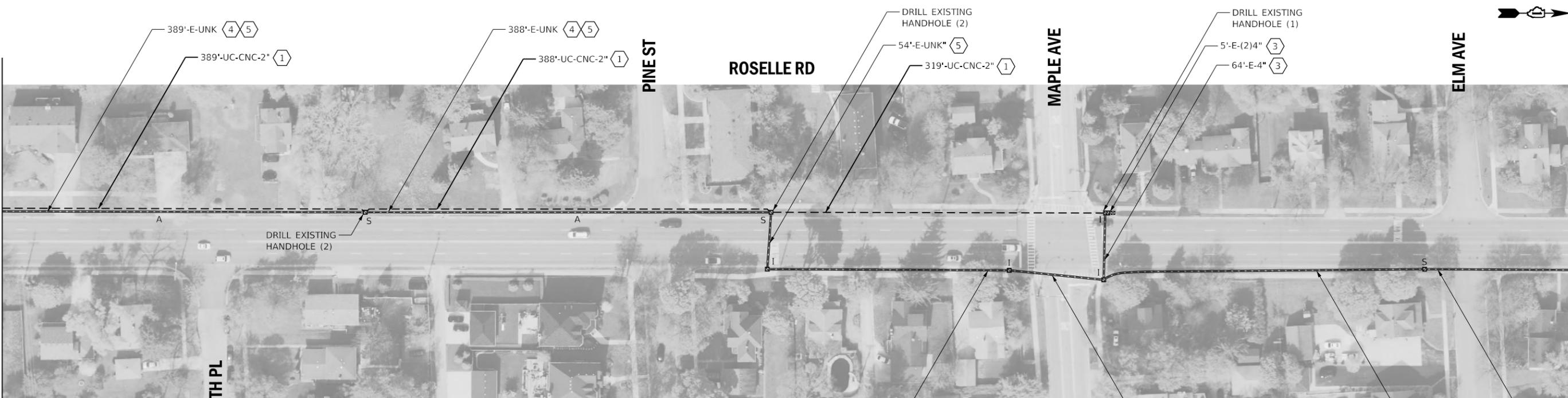
MATCHLINE G-G

**NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 2 THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION, MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 4 EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.
- 5 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING FIBER OPTIC AND TRACER CABLE.

TRAFFIC SIGNAL PLANS  
SEE SHEET 12

MATCHLINE G-G



MATCHLINE H-H SEE SHEET 21

- 6 THE CONTRACTOR SHALL LEAVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE IN OPERATION AND INSTALL PROPOSED FIBER OPTIC AND TRACER CABLE ALONGSIDE IN THE SAME CONDUIT.
- 7 AT THIS INTERSECTION, THE CONTROLLER WILL CONTINUE TO OPERATE ON THE EXISTING FIBER. THE PROPOSED FIBER OPTIC CABLE WILL BYPASS THE CABINET.

TRAFFIC SIGNAL PLANS  
SEE SHEET 13



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

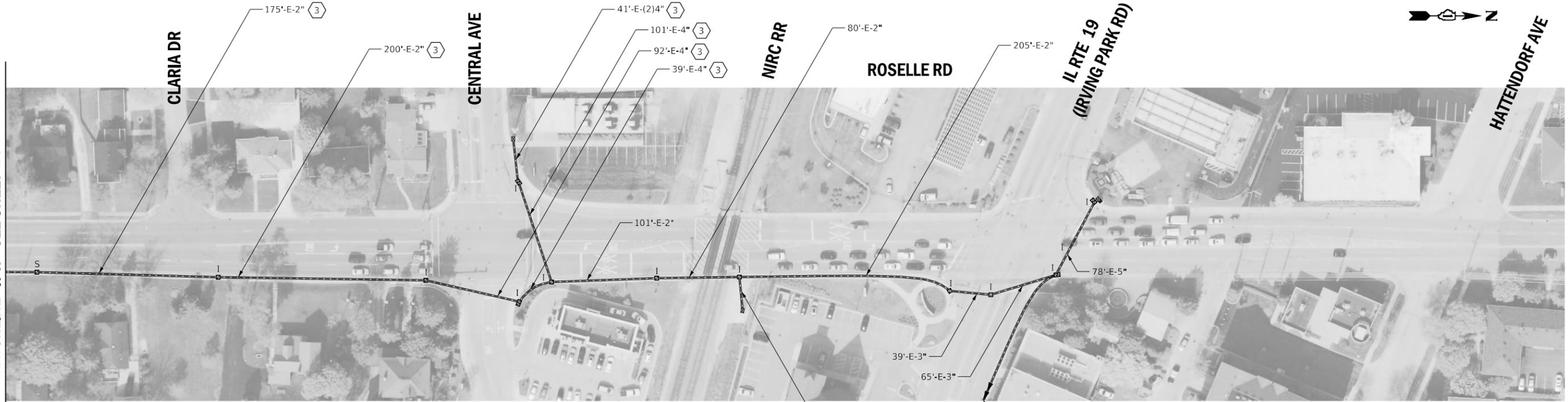
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN - AREA 1  
LOCATION A - ROSELLE RD

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	20
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

MATCHLINE H-H SEE SHEET 20



**NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 2 THE CONTRACTOR SHALL BYPASS THE CONTROL CABINET AT THIS INTERSECTION, MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION HAS BEEN INCLUDED IF EXISTING TRAFFIC SIGNAL HANDHOLES OR CONDUIT ARE USED IN INTERCONNECT ROUTING.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- 4 EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.
- 5 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING FIBER OPTIC AND TRACER CABLE.
- 6 THE CONTRACTOR SHALL LEAVE THE EXISTING FIBER OPTIC CABLE AND TRACER CABLE IN OPERATION AND INSTALL PROPOSED FIBER OPTIC AND TRACER CABLE ALONGSIDE IN THE SAME CONDUIT.
- 7 AT THIS INTERSECTION, THE CONTROLLER WILL CONTINUE TO OPERATE ON THE EXISTING FIBER. THE PROPOSED FIBER OPTIC CABLE WILL BYPASS THE CABINET.

TRAFFIC SIGNAL PLANS  
SEE SHEET 14



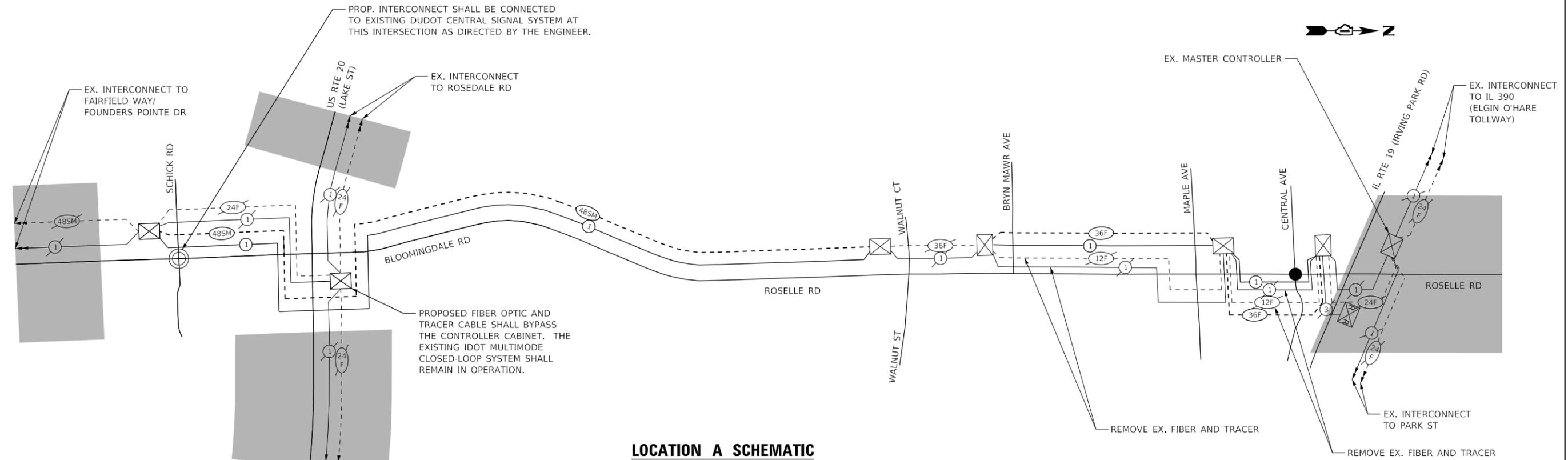
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	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN - AREA 1  
LOCATION A - ROSELLE RD

SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	21
ILLINOIS			CONTRACT NO. 61H96	
FED. AID PROJECT				



**LOCATION A SCHEMATIC**

THE CONTROLLER AT BLOOMINGDALE RD AND SCHICK RD SHALL REMAIN ON THE IDOT MULTIMODE NETWORK AFTER BEING ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM.

THE CONTROLLERS ON ROSELLE RD AT CENTRAL AVE, MAPLE AVE, AND BRYN MAWR AVE SHALL REMAIN ON THE IDOT MULTIMODE NETWORK UPON COMPLETION OF THE PROJECT. THE SWITCHES AND CAMERAS SHALL BE CONFIGURED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM USING ETHERNET AND SINGLEMODE FIBER.

**LEGEND**

EXISTING	PROPOSED	
		ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F
		FIBER OPTIC CABLE, 24 SINGLE MODE
		FIBER OPTIC CABLE, 48 SINGLE MODE
		FIBER OPTIC CABLE, 36 SINGLE MODE
		PAN, TILT, ZOOM (PTZ) CAMERA
		OUTSIDE PROJECT LIMITS
		LAYER III SWITCH

**AREA 1 FIBER NOTES**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIBER SPLICES AND TERMINATIONS FOR ALL PROPOSED FIBER OPTIC CABLES AS SPECIFIED IN THE SPECIAL PROVISIONS FOR FIBER OPTIC CABLES.

TERMINATIONS FOR EXISTING FIBER OPTIC CABLES AND SPLICES BETWEEN EXISTING FIBER OPTIC CABLES SHALL BE PAID FOR SEPARATELY. FOR BIDDING PURPOSES AN ESTIMATED QUANTITY OF SPLICES AND TERMINATIONS HAS BEEN INCLUDED IN THE QUANTITIES.

THE ACTUAL NUMBER OF TERMINATIONS AND SPLICES AT EACH LOCATION SHALL BE BASED ON THE NETWORK CONFIGURATION DOCUMENT SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE TRAFFIC ENGINEER. SEE THE SPECIAL PROVISION LAYER III SWITCH. SPLICES AND TERMINATIONS SHALL BE REALLOCATED BY THE ENGINEER, AS NEEDED, BETWEEN THE INTERCONNECT AREAS.

AREA 1 FIBER SPlice AND TERMINATION SCHEDULE:

ITEM DESCRIPTION	INCLUDED IN FIBER OPTIC CABLE PAY ITEM	TO PAID FOR SEPARATELY
TERMINATE FIBER IN CABINET	28	8
SPLICE FIBER IN CABINET	24	0

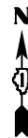
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	PAY ITEM DESCRIPTION
5	CU YD	NON-SPECIAL WASTE DISPOSAL
135	GALLON	SPECIAL WASTE GROUNDWATER DISPOSAL
1	EACH	SOIL DISPOSAL ANALYSIS
0.17	L SUM	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN
0.17	L SUM	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT
0.5	CAL DA	REGULATED SUBSTANCES MONITORING
64	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
7217	FOOT	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
9	EACH	HANDHOLE
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8970	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
14	EACH	DRILL EXISTING HANDHOLE
3160	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1845	FOOT	ROD AND CLEAN EXISTING CONDUIT
3240	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F
7610	FOOT	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE
3160	FOOT	REMOVE FIBER OPTIC CABLE FROM CONDUIT
8	EACH	TERMINATE FIBER IN CABINET
1	EACH	LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE

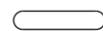
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**AREA 2**



**LEGEND**

-  PROPOSED INTERCONNECT AREA - SEE INTERCONNECT PLANS
-  PROPOSED SIGNAL IMPROVEMENT CORRIDOR
-  PROPOSED SIGNAL IMPROVEMENT LOCATION

**INTERCONNECT PLANS**

	LOCATION	SHEETS
(A)	PROSPECT AVE	46
(B)	WOOD DALE RD	47 - 48

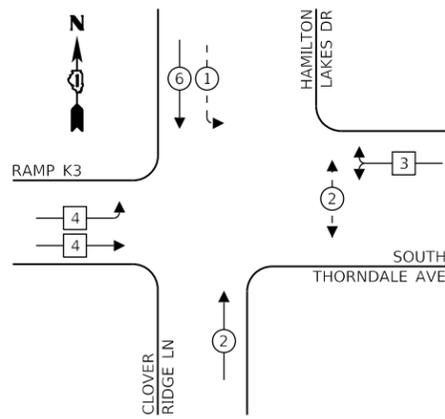
**INTERSECTION PLANS**

#	LOCATION	SHEETS
65	CLOVER RIDGE LN/HAMILTON LAKES DR AND SOUTH THORNDALE AVE	25
63	HAMILTON LAKES DR AND PARK BLVD	26
64	HAMILTON LAKES DR AND PIERCE RD	27
72	ARLINGTON HEIGHTS RD AND S THORNDALE AVE	28
68	ARLINGTON HEIGHTS RD AND KETTER DR / N THORNDALE AVE	29 - 31
73	PROSPECT AVE AND S THORNDALE AVE	32 - 33
69	PROSPECT AVE AND N THORNDALE AVE	34 - 35
67	PROSPRCT AVE AND PIERCE RD / MARINO CT	36 - 37
75	WOOD DALE RD AND SCHOOL ST / FOSTER AVE	38 - 39
76	WOOD DALE RD AND MITTEL DR	40
74	WOOD DALE RD AND S THORNDALE AVE	41 - 42
71	WOOD DALE RD AND N THORNDALE AVE	43
66	KETTER DR AND RAMP L1	44
70	N THORNDALE AVE AND SUPREME DR	45

**AREA 2 SIGNAL IMPROVEMENTS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL	HAMILTON LAKES DR AND			ARLINGTON HTS RD AND		PROSPECT AVE AND			WOODDALE RD AND				
				SOUTH THORNDALE AVE	PARK BLVD	PIERCE RD	SOUTH THORNDALE AVE	KETTER DR/NORTH THORNDALE AVE	SOUTH THORNDALE AVE	NORTH THORNDALE AVE	PIERCE RD/MARINO CT	FOSTER AVE/SCHOOL ST	MITTEL DR	SOUTH THORNDALE AVE	NORTH THORNDALE AVE	KETTER DR AND RAMP L1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	14	1	1	1	1	1	1	1	1	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	10								5	5				
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	160							61	34	65				
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1561							61	750	750				
88500100	INDUCTIVE LOOP DETECTOR	EACH	13								8	5				
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2								1	1				
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	155							82	28	45				
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3							1	1	1				
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	100							41	14	45				
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	1314				209	232	91	80	314		297	91		
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	1				1									
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	5				1	1		1	1		1			
X1400216	LAYER II (DATALINK) SWITCH	EACH	13	1	1	1	1	1	1	1	1	1	1	1	1	1
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	10	1	1	1	1	1	1	1			1	1	1	
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	13	1	1	1	1		1	1	1	1	1	1	1	1
X1400335	WIRELESS TRANSMISSION SYSTEM POINT TO POINT	EACH	2						1					1		
X1400460	LAYER III (NETWORK) SWITCH	EACH	1				1									
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	3							1	1	1				
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1							1						
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2								1	1				
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	3							1	1	1				
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	12	1	1	1	1	1	1	1			1	1	1	1
	WIRELESS TRANSMISSION SYSTEM SUBSCRIBER UNIT	EACH	1				1									
	POE EXTENDER	EACH	2								1		1			

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

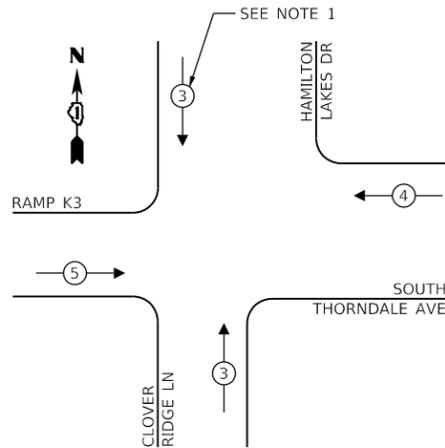
- ⊙ — PROTECTED PHASE
- ⊙ — — PROTECTED/PERMITTED PHASE
- ⊙ — ⊙ — PEDESTRIAN PHASE
- ⊙ — OL — OVERLAP

**CONSTRUCTION NOTES:**

1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.

NOTE 1:  
THE CONTROLLER SHALL REMAIN PROGRAMMED TO PLACE THIS SIGNAL IN PREMPTOR 3 WHEN AN EVP CALL IS RECEIVED ON SOUTHBOUND HAMILTON LAKES DR AT HAMILTON LAKES DR/ PARK BLVD.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99
(YELLOW)	18	20	5	18
(GREEN)	22	12	45	119
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	4	250	50	500
PTZ CAMERA	-	75	100	-
TOTAL =				1085

ENERGY COSTS TO:

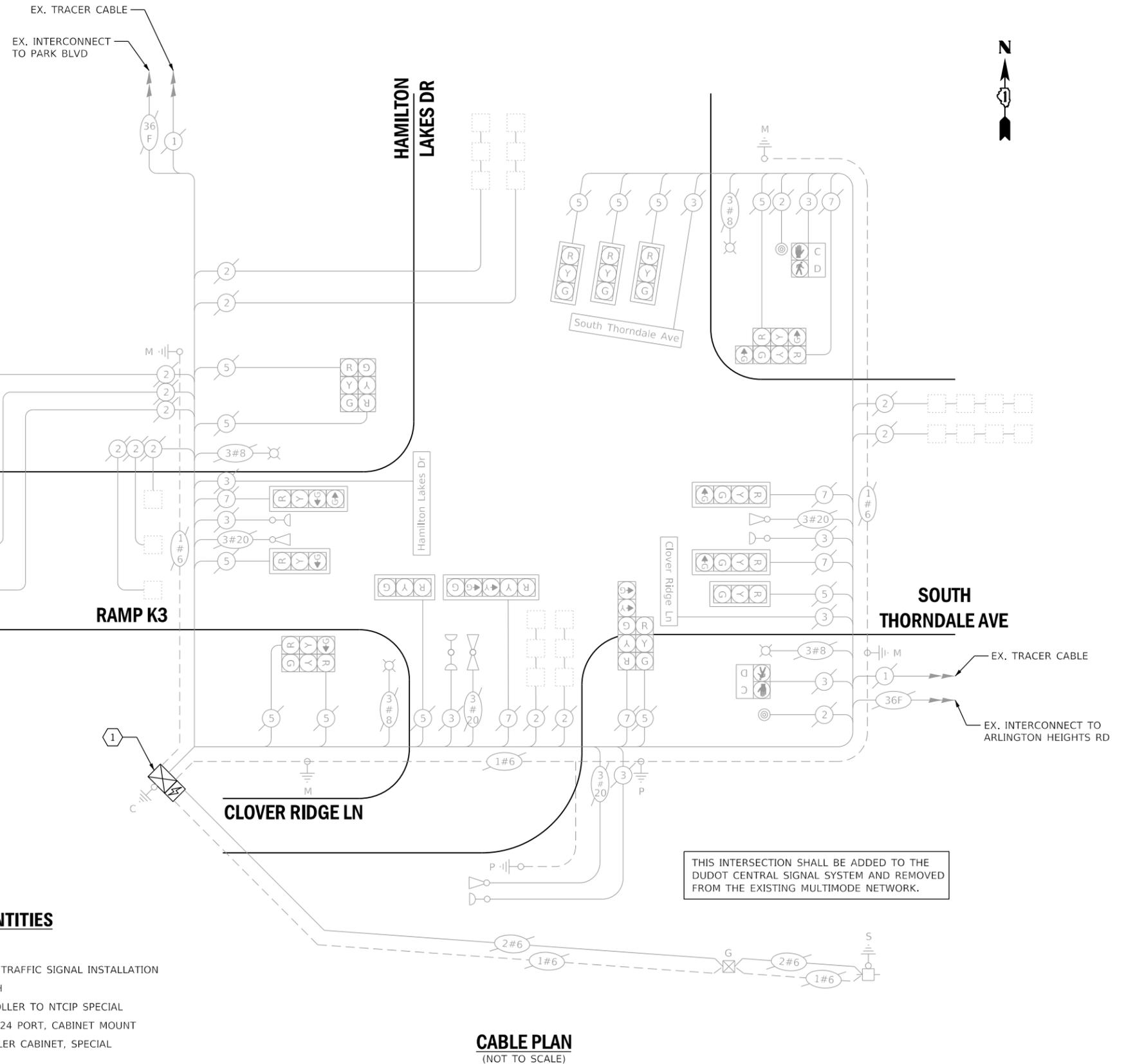
**VILLAGE OF ITASCA**

550 W. IRVING PARK RD.  
ITASCA, IL 60143

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: 24810-73010

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTICIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.

**CABLE PLAN**  
(NOT TO SCALE)

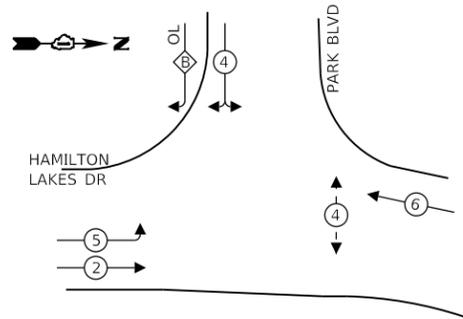
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	PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
	PLOT DATE = 8/16/2022	CHECKED - DW	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2**  
**CLOVER RIDGE LN/ HAMILTON LAKES DR AND SOUTH THORNDALE AVE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	25
			CONTRACT NO. 61H96	
		ILLINOIS FED. AID PROJECT		

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

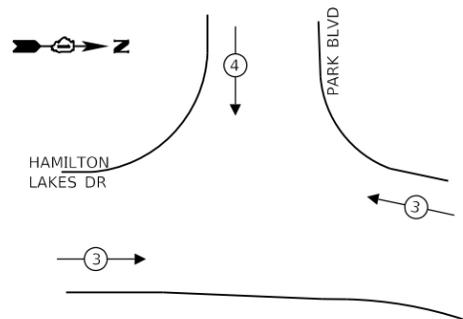
**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	70
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	20	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
<b>TOTAL =</b>				<b>758</b>

ENERGY COSTS TO:

**VILLAGE OF ITASCA**

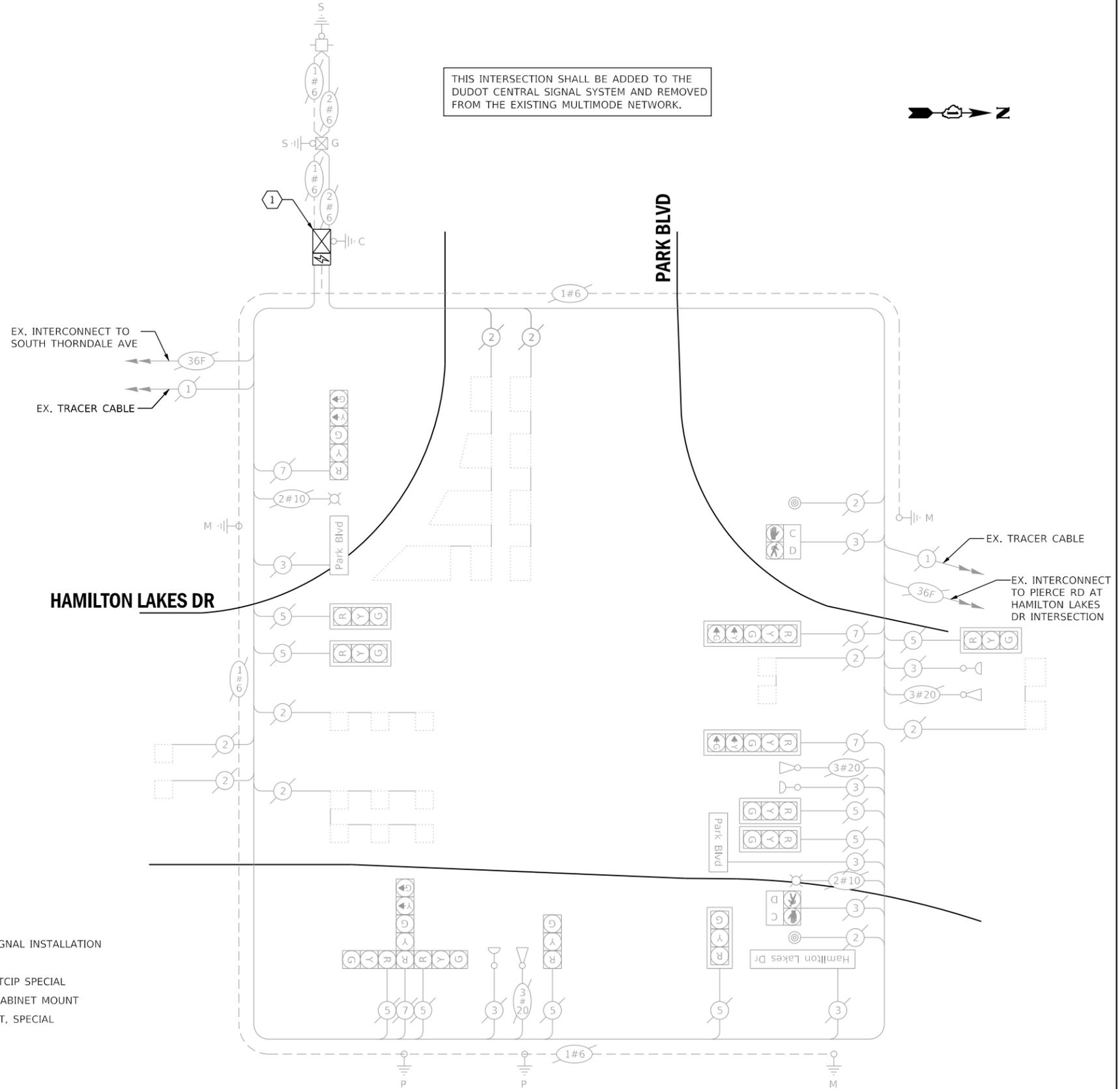
550 W. IRVING PARK RD.  
ITASCA, IL 60143

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

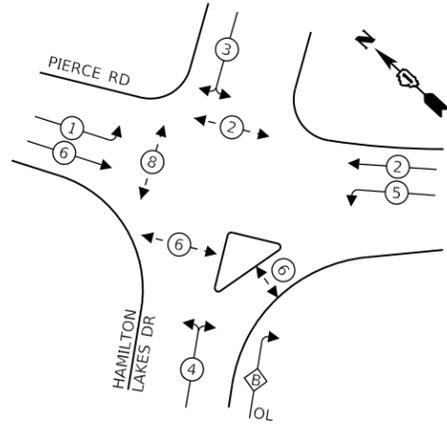
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
HAMILTON LAKES DR AND PARK BLVD**

SCALE: SHEET 2 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	26
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

ITASCA

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

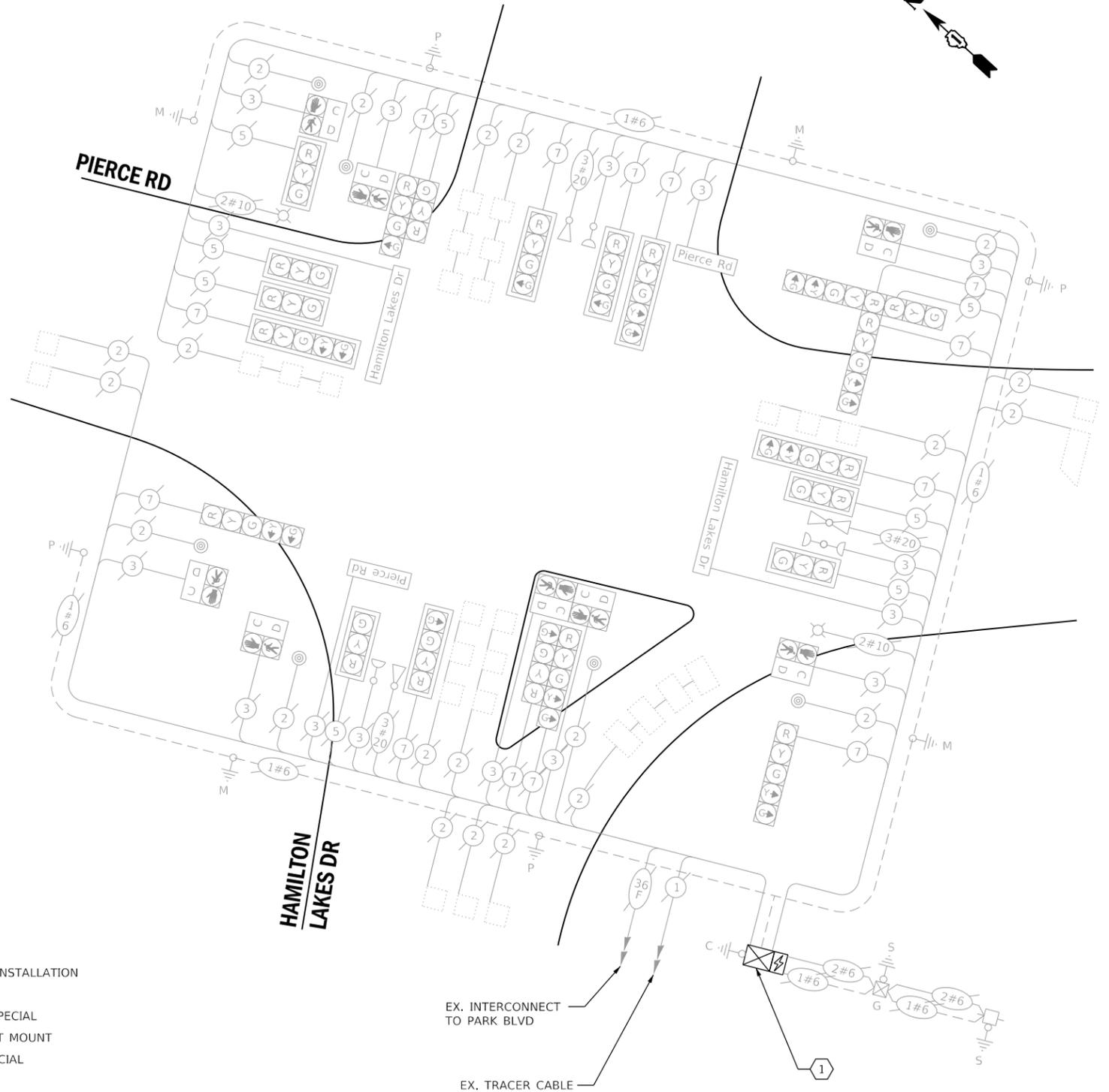
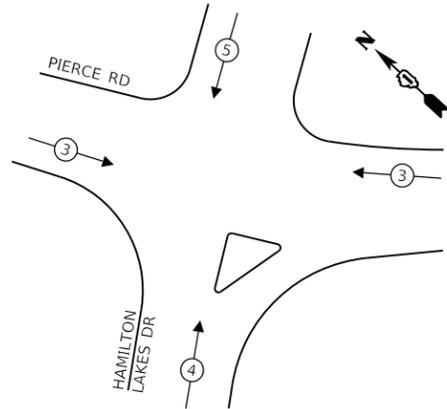
**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	21	11	50	116
(YELLOW)	21	20	5	21
(GREEN)	26	12	45	141
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	20	50	-
STREET NAME SIGN	4	120	50	240
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				1069

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

ENERGY COSTS TO:

**VILLAGE OF ITASCA**

550 W. IRVING PARK RD.  
ITASCA, IL 60143

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

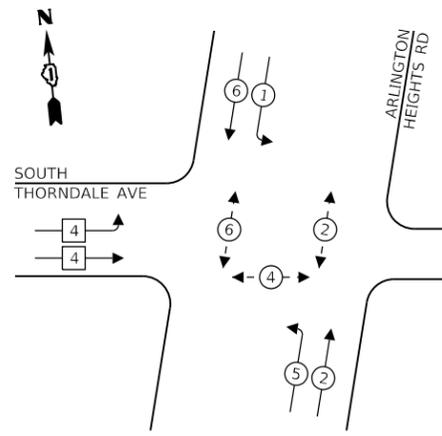
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
HAMILTON LAKES DR AND PIERCE RD**

SCALE: SHEET 3 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	27
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

ITASCA

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

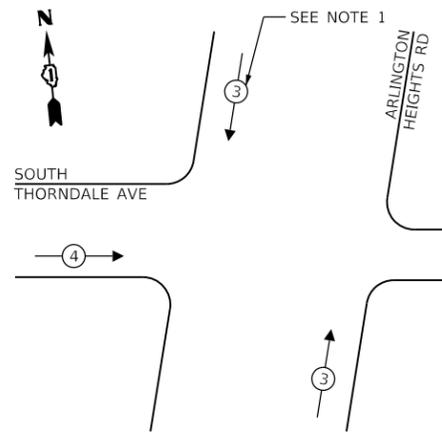
- ◀ \* — SINGLE ENTRY PHASE
- ◀ \* — PROTECTED PHASE
- ◀ - \* - PROTECTED/PERMITTED PHASE
- ◀ \* ▶ PEDESTRIAN PHASE
- ◀ \* ▶ OL OVERLAP

**CONSTRUCTION NOTES:**

① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.

NOTE 1:  
THE CONTROLLER SHALL BE PROGRAMMED TO PLACE THIS SIGNAL IN PREMPTOR 3 WHEN AN EVP CALL IS RECEIVED ON SOUTHBOUND ARLINGTON HEIGHTS RD AT NORTH THORNDALE AVE / KETTER DR.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	61
(YELLOW)	11	20	5	11
(GREEN)	13	12	45	70
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	4	250	50	500
PTZ CAMERA	-	75	100	-
TOTAL =				1035

ENERGY COSTS TO:

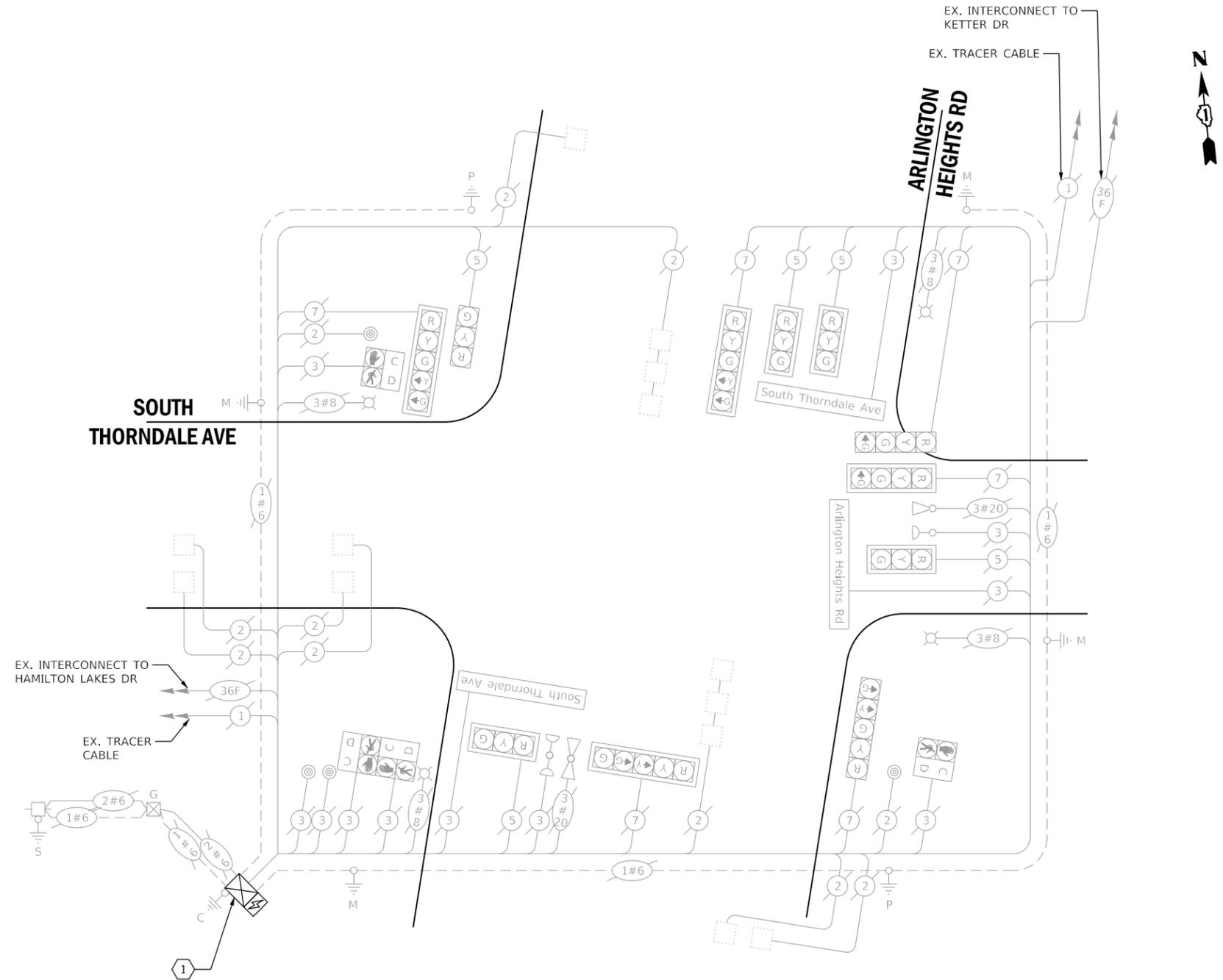
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



**CABLE PLAN**  
(NOT TO SCALE)

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.

<b>DLZ</b>	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - RG	REVISED -
	PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2**  
**ARLINGTON HEIGHTS RD AND SOUTH THORNDALE AVE**

SCALE: SHEET 4 OF 21 SHEETS STA. TO STA.

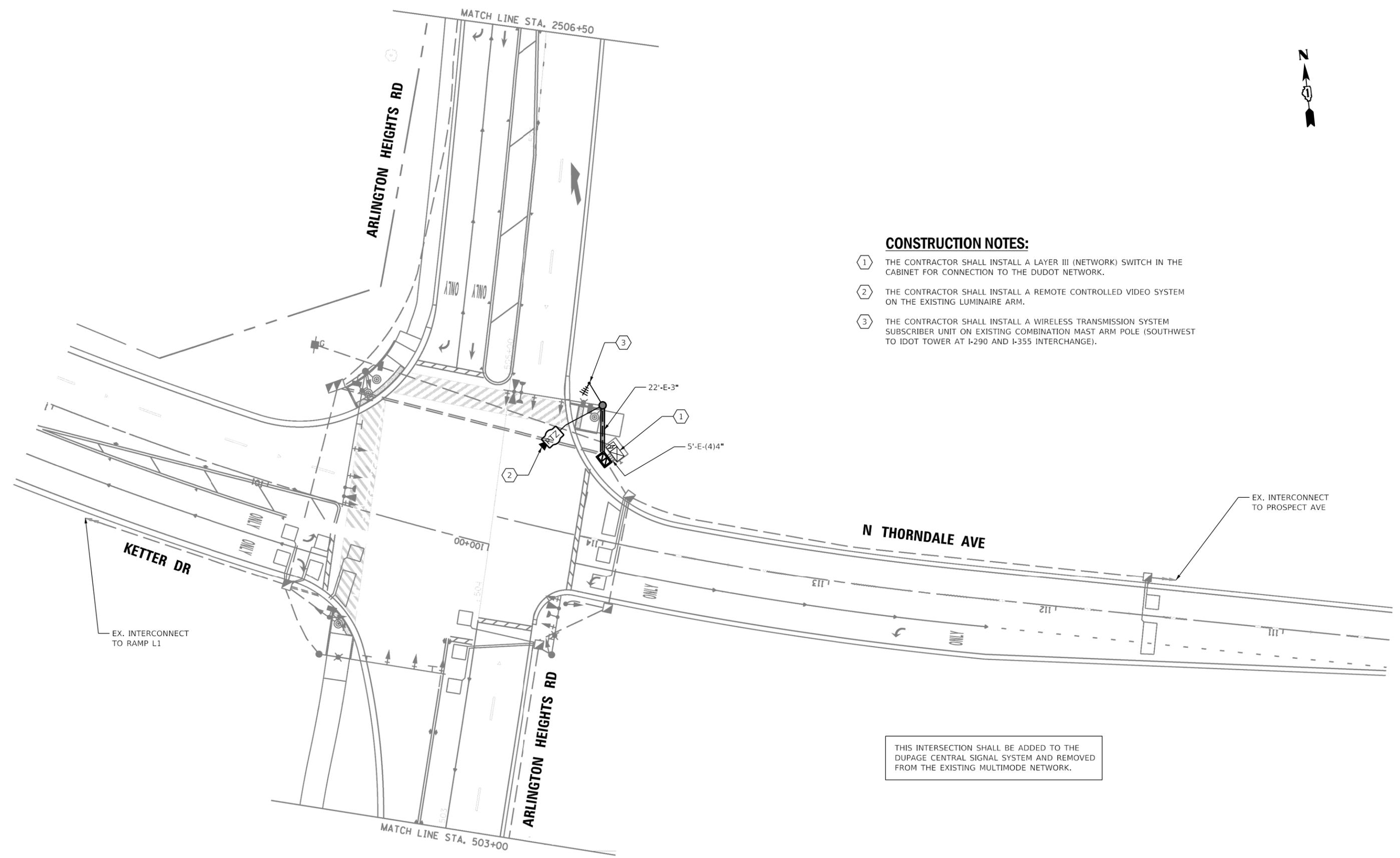
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	28
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**DUDOT**



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ③ THE CONTRACTOR SHALL INSTALL A WIRELESS TRANSMISSION SYSTEM SUBSCRIBER UNIT ON EXISTING COMBINATION MAST ARM POLE (SOUTHWEST TO IDOT TOWER AT I-290 AND I-355 INTERCHANGE).



THIS INTERSECTION SHALL BE ADDED TO THE DUPAGE CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.

**DUDOT**

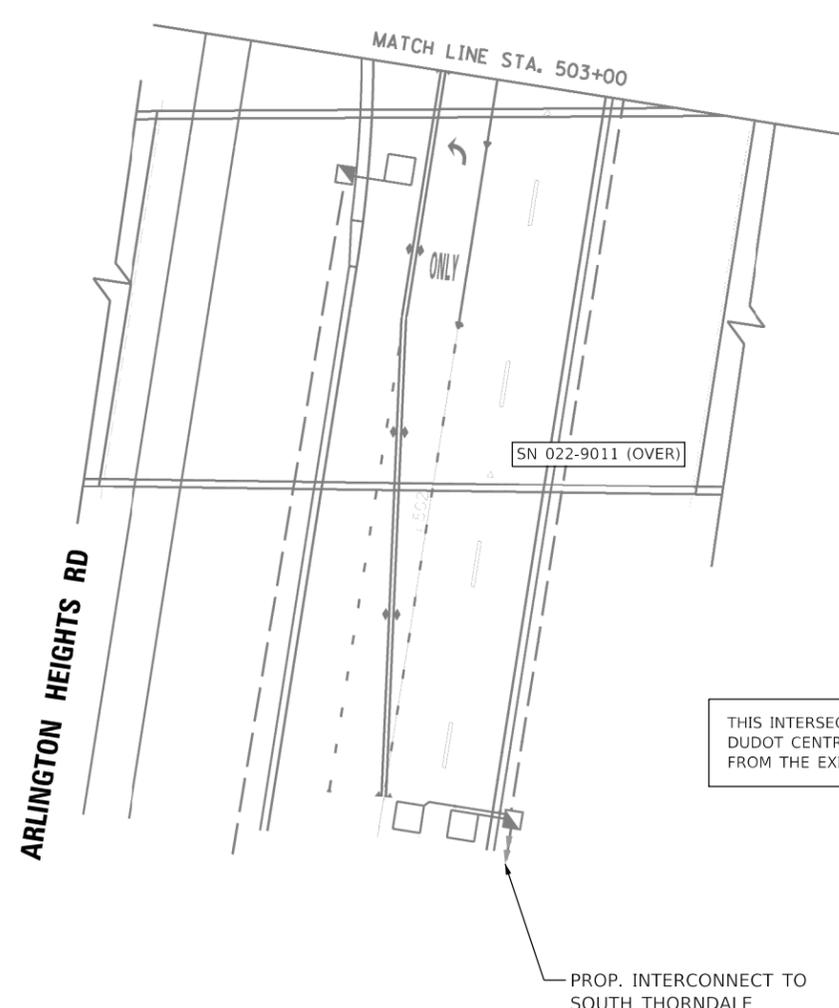
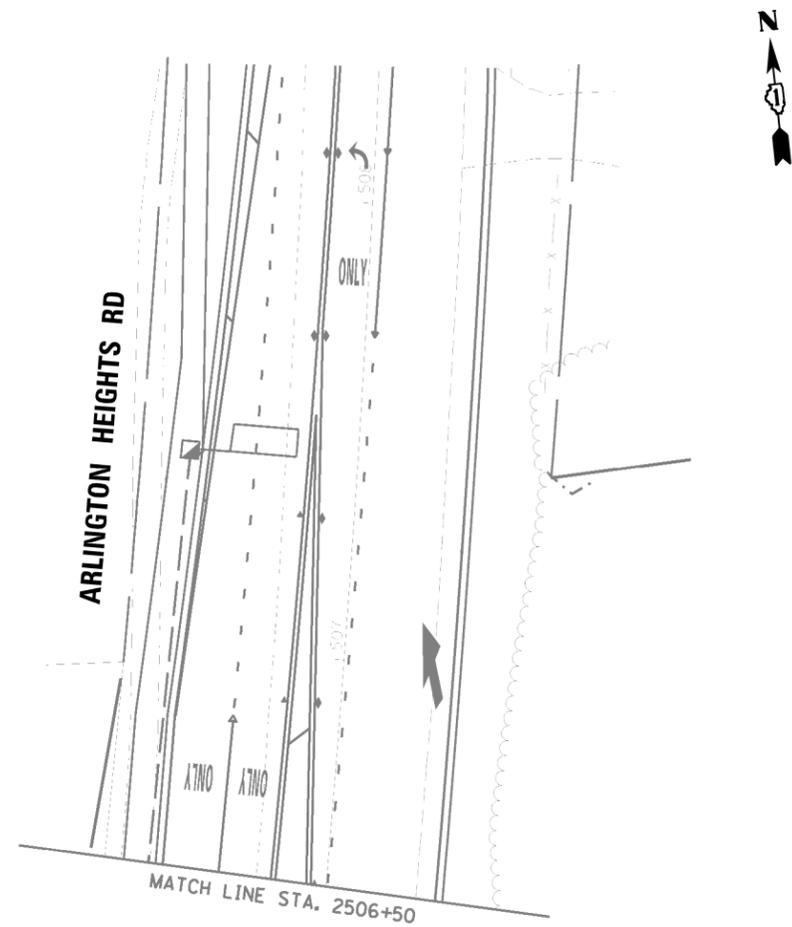


USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 2  
PTZ PLAN - KETTER DR/N THORNDALE AVE AND ARLINGTON HEIGHTS RD**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	29
CONTRACT NO. 61H96				
ILLINOIS FED. AID PROJECT				



THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.

**DUDOT**



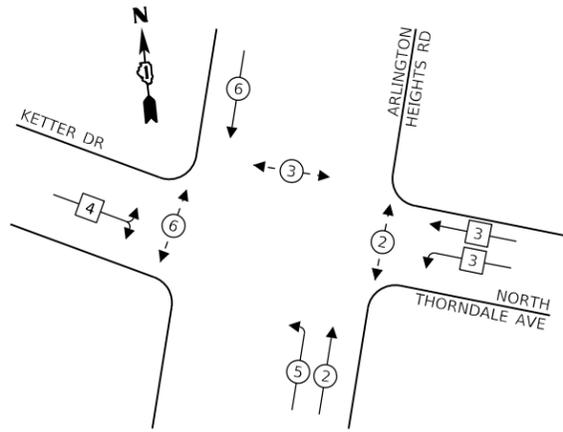
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	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 2  
PTZ PLAN - KETTER DR/N THORNDALE AVE AND ARLINGTON HEIGHTS RD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H96	

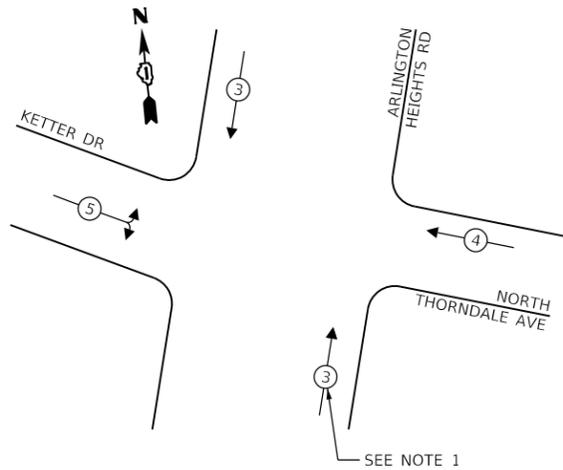
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



NOTE 1:  
THE CONTROLLER SHALL REMAIN PROGRAMMED TO PLACE THIS SIGNAL IN PREMPTOR 3 WHEN AN EVP CALL IS RECEIVED ON NORTHBOUND ARLINGTON HEIGHTS RD AT SOUTH THORNDALE AVE.

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	22	12	45	119
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1187

ENERGY COSTS TO:

**VILLAGE OF ITASCA**

550 W. IRVING PARK RD.  
ITASCA, IL 60143

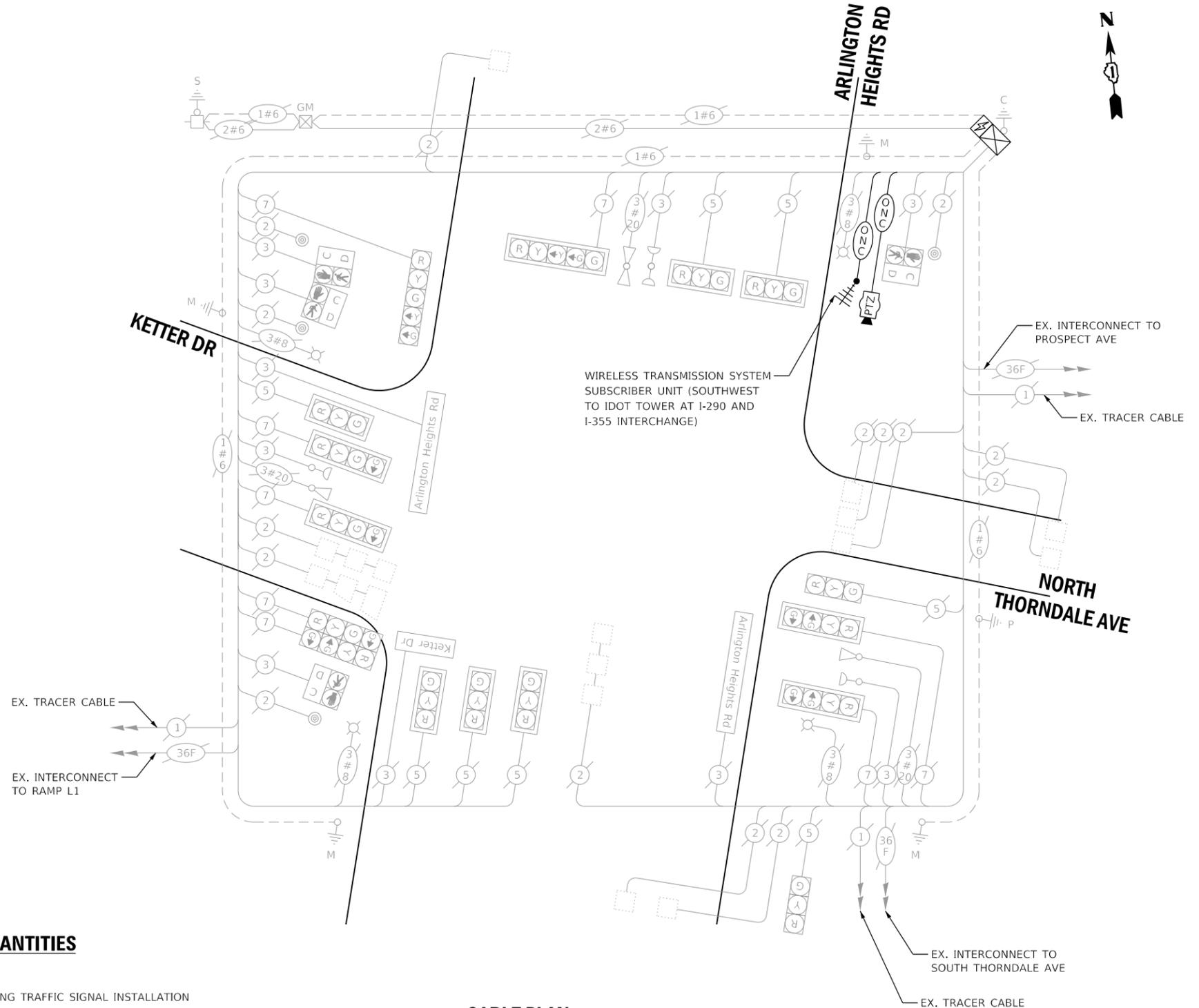
ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
209	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	WIRELESS TRANSMISSION SYSTEM SUBSCRIBER UNIT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN  
(NOT TO SCALE)**



THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.



USER NAME = dwiktorzak  
DESIGNED - ZH  
DRAWN - RG  
PLOT SCALE = 40.0000 ' / in.  
CHECKED - DW  
PLOT DATE = 6/12/2022  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
ARLINGTON HEIGHTS RD AND KETTER DR/NORTH THORNDALE AVE

SCALE: SHEET 7 OF 21 SHEETS STA. TO STA.

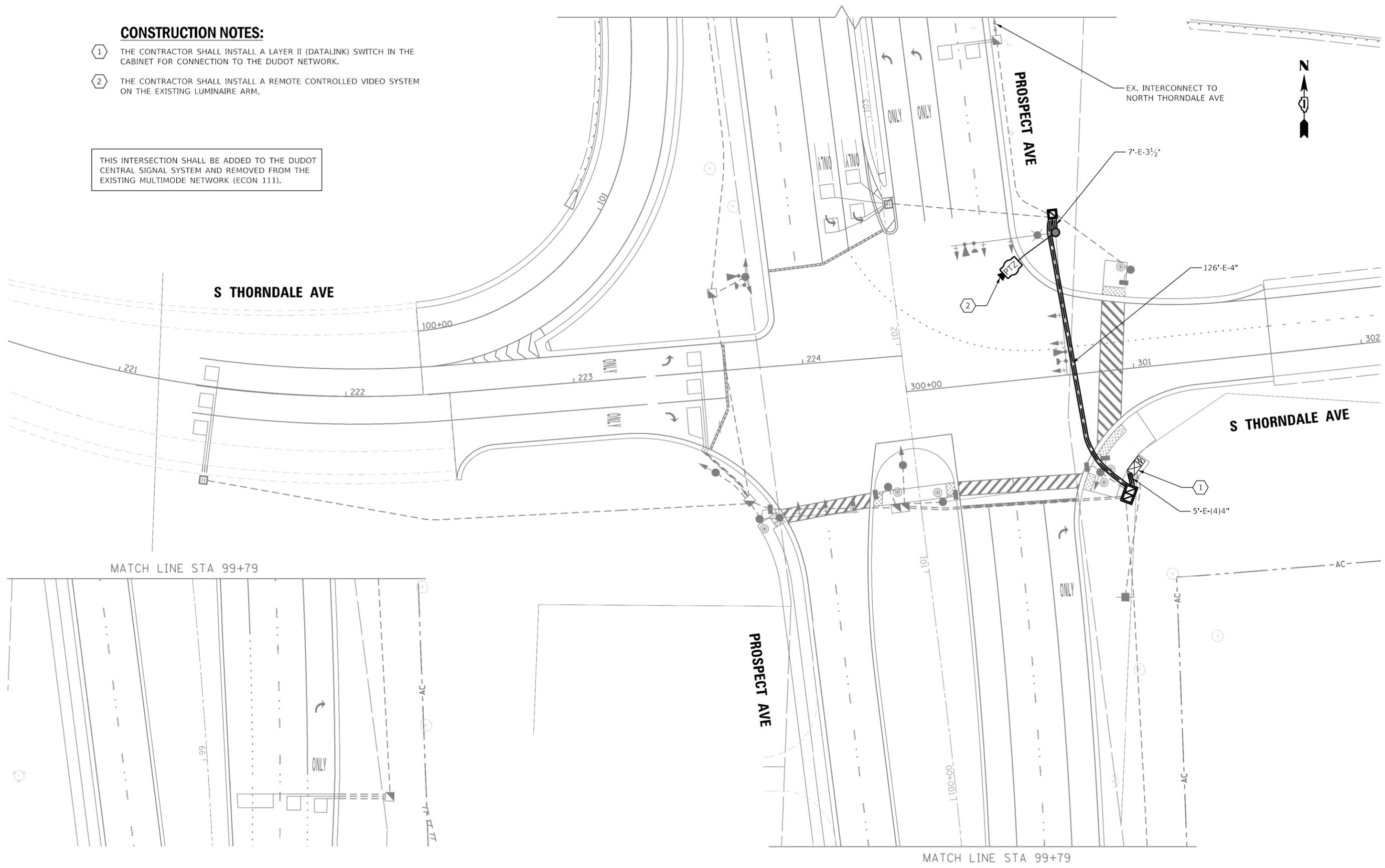
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	31
CONTRACT NO. 61H96				

DUDOT

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK (ECON 111).



**DUDOT**



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/14/2022	DATE -	REVISED -

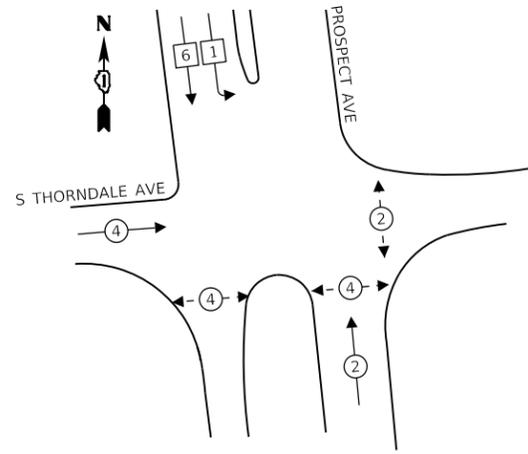
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 2  
PTZ PLAN - SOUTH THORNDALE AVE AND PROSPECT AVE**

SCALE: 1"=20'    SHEET 8 OF 21 SHEETS    STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	32
CONTRACT NO. 61H96				
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**

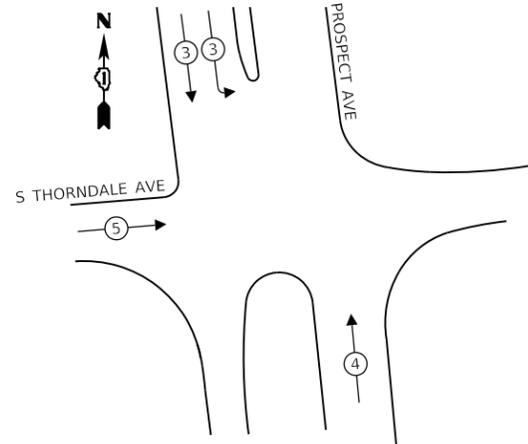


**LEGEND:**

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

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK (ECON 111).

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				917

ENERGY COSTS TO:

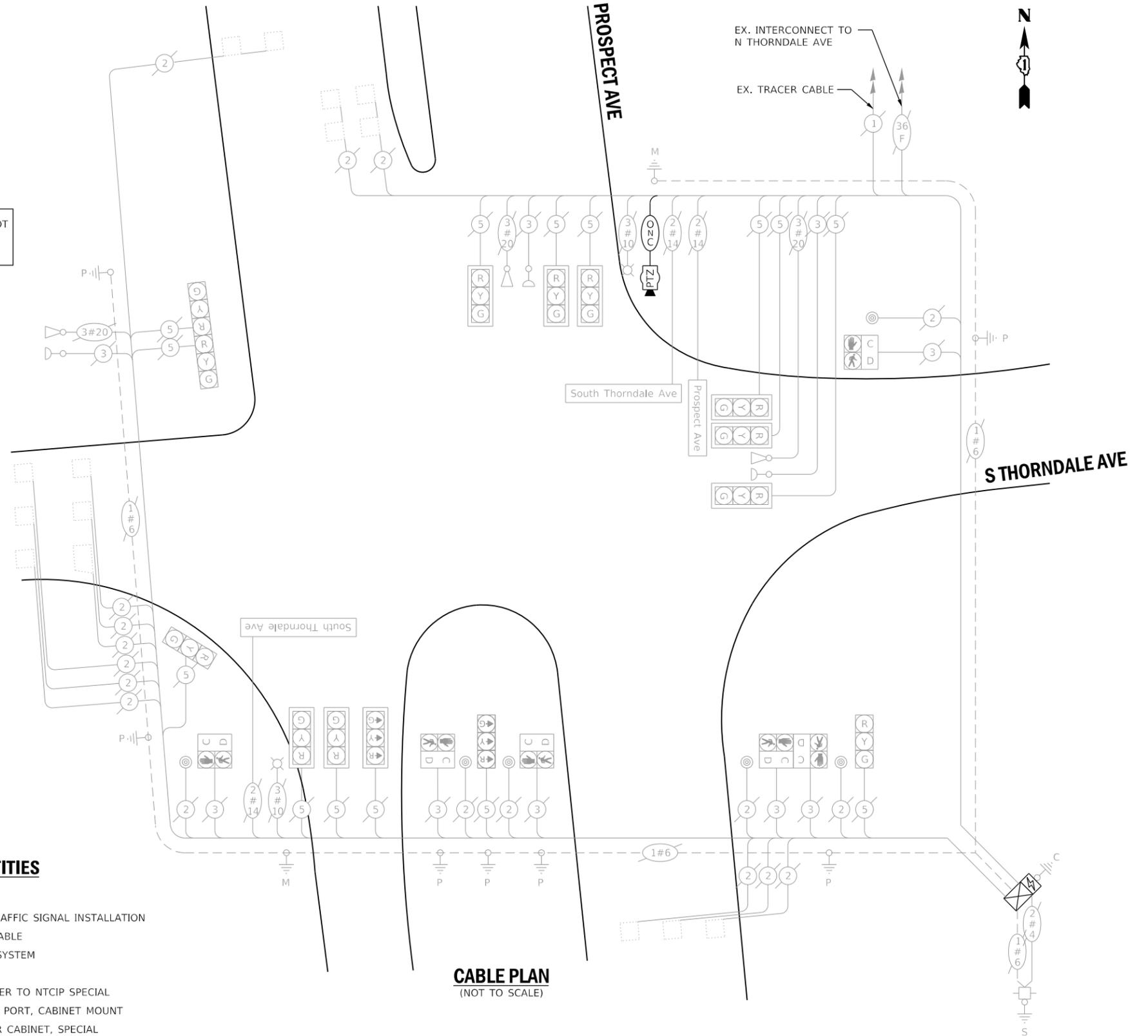
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
232	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



**CABLE PLAN**  
(NOT TO SCALE)



USER NAME = rgeorgescu	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/14/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2 PROSPECT AVE AND SOUTH THORNDALE AVE**

SCALE: SHEET 9 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	33
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**DUDOT**

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

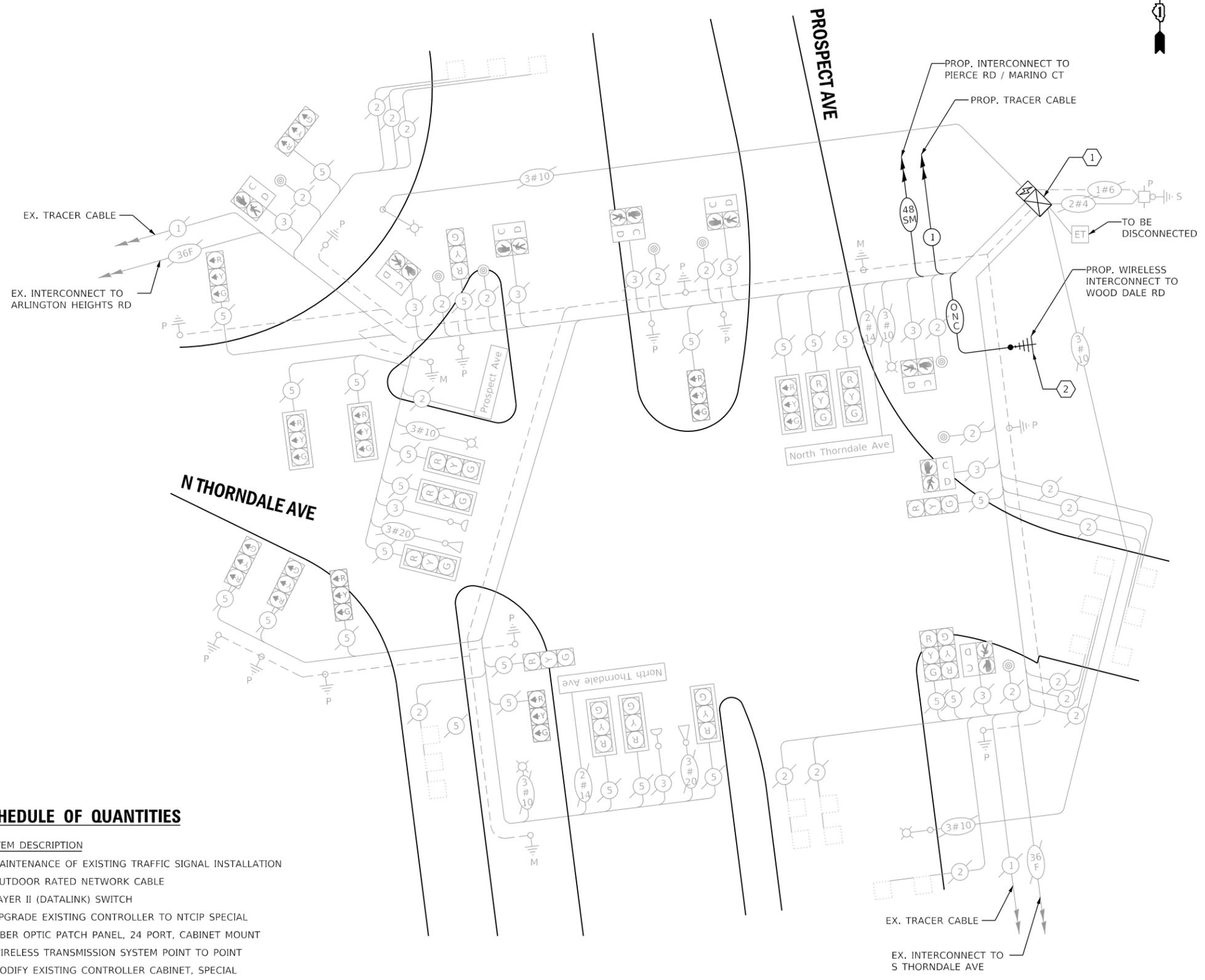
AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH MASTER CONTROLLER (ASC/ZM-1000)
- 1 EACH MODEM

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A PROPOSED WIRELESS INTERCONNECT.

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK (ECON 111).



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	23	11	50	127
(YELLOW)	23	20	5	23
(GREEN)	23	12	45	125
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	5	250	50	625
PTZ CAMERA	-	75	100	-
TOTAL =				1365

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
91	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	WIRELESS TRANSMISSION SYSTEM POINT TO POINT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:



USER NAME = rgeorgescu	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/14/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

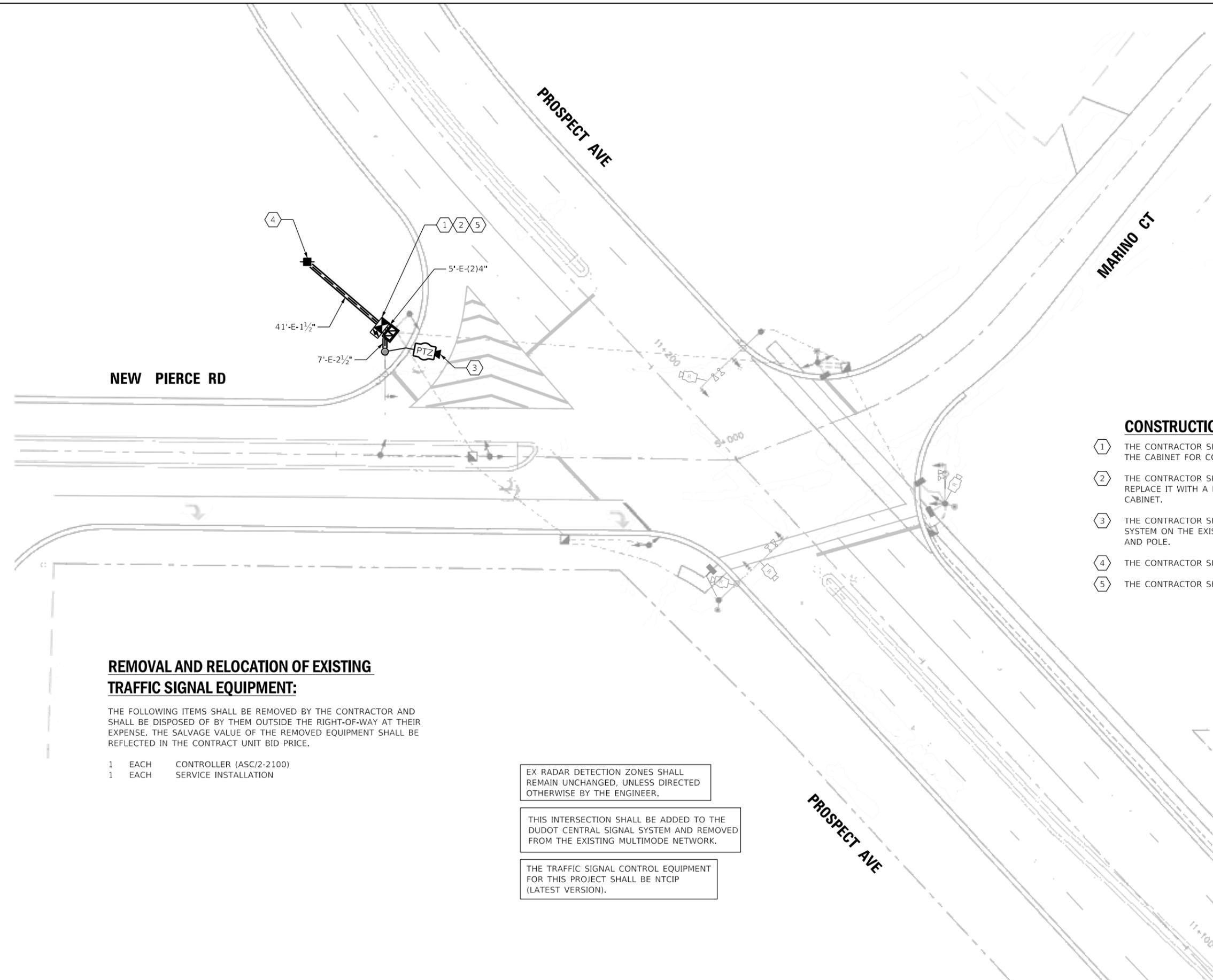
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
PROSPECT AVE AND NORTH THORNDALE AVE**

SCALE: SHEET 10 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	34
			CONTRACT NO. 61H96	
		ILLINOIS FED. AID PROJECT		

**DUDOT**





**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- ③ THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- ④ THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ⑤ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CONTROLLER (ASC/2-2100)
- 1 EACH SERVICE INSTALLATION

EX RADAR DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

EX. INTERCONNECT TO NORTH THORNDALE AVE

**DUDOT**



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

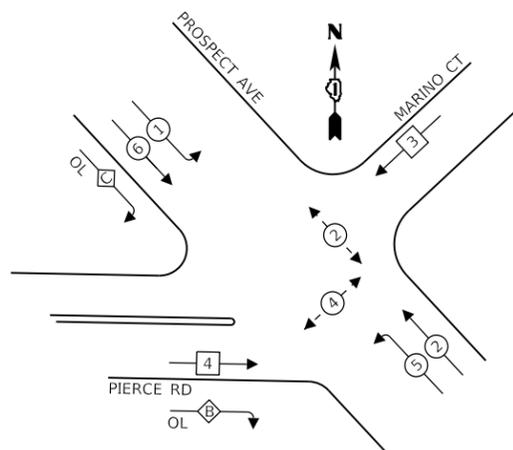
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 2  
PTZ PLAN - PROSPECT AVE AND NEW PIERCE/MARINO CT**

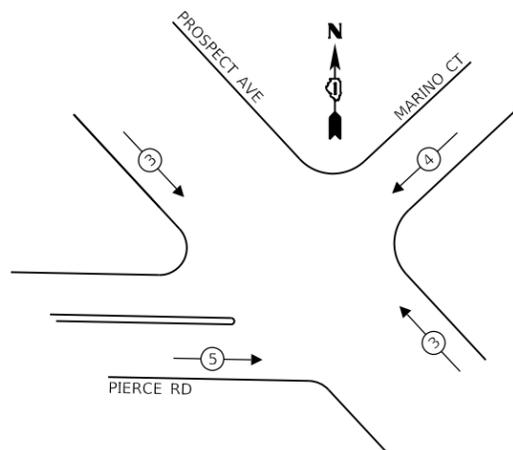
SCALE: 1"=20' SHEET 12 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	36
			CONTRACT NO.	61H96
		ILLINOIS	FED. AID PROJECT	

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

- ◀ \* — SINGLE ENTRY PHASE
- ◀ \* — PROTECTED PHASE
- ◀ \* — PROTECTED/PERMITTED PHASE
- ◀ \* ▶ — PEDESTRIAN PHASE
- ◀ \* OL — OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

EX RADAR DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	20	12	45	108
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
RADAR SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1158

ENERGY COSTS TO:

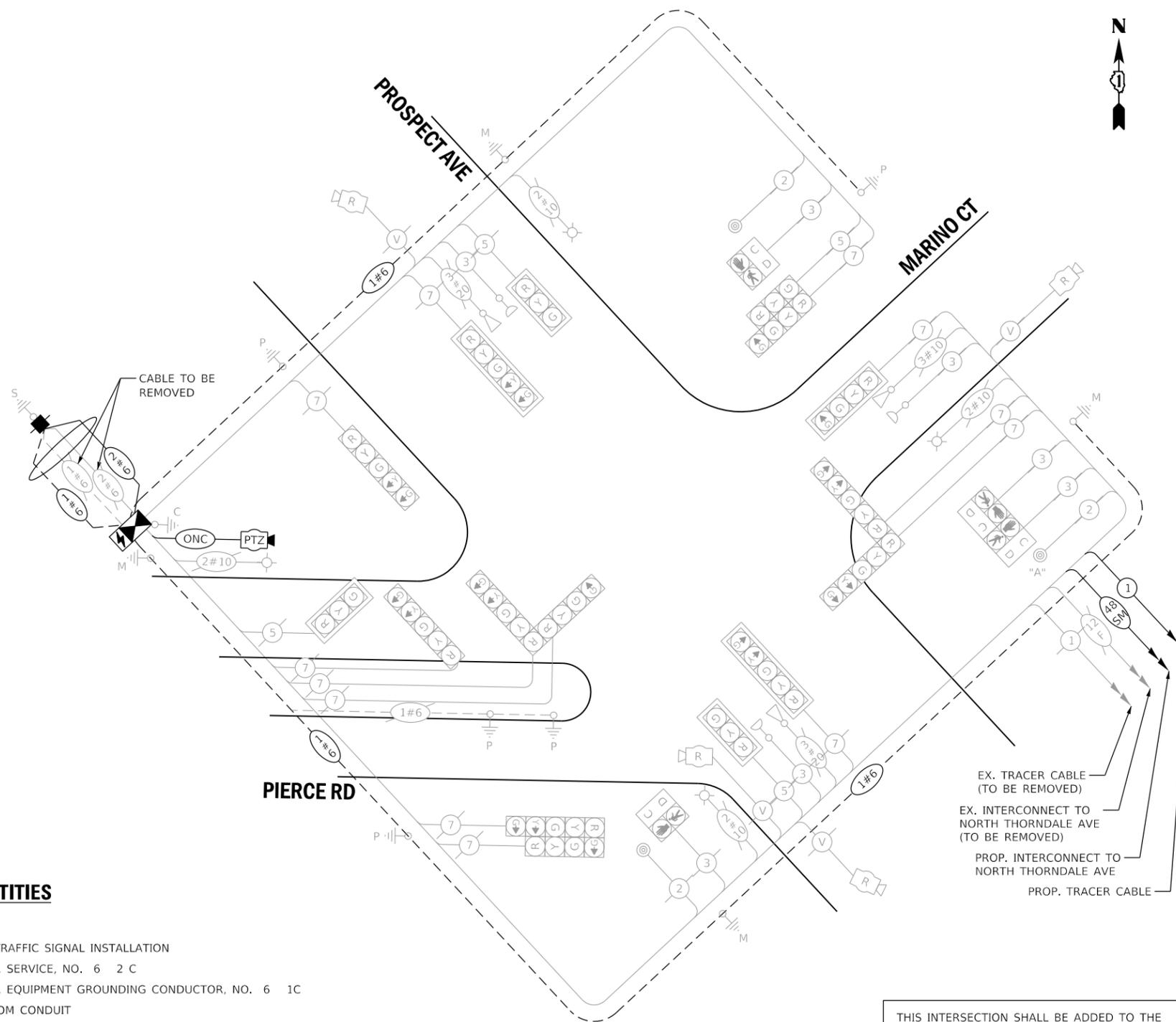
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
61	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
61	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
82	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
41	FOOT	ROD AND CLEAN EXISTING CONDUIT
80	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



**CABLE PLAN**  
(NOT TO SCALE)

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.

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

**DUDOT**



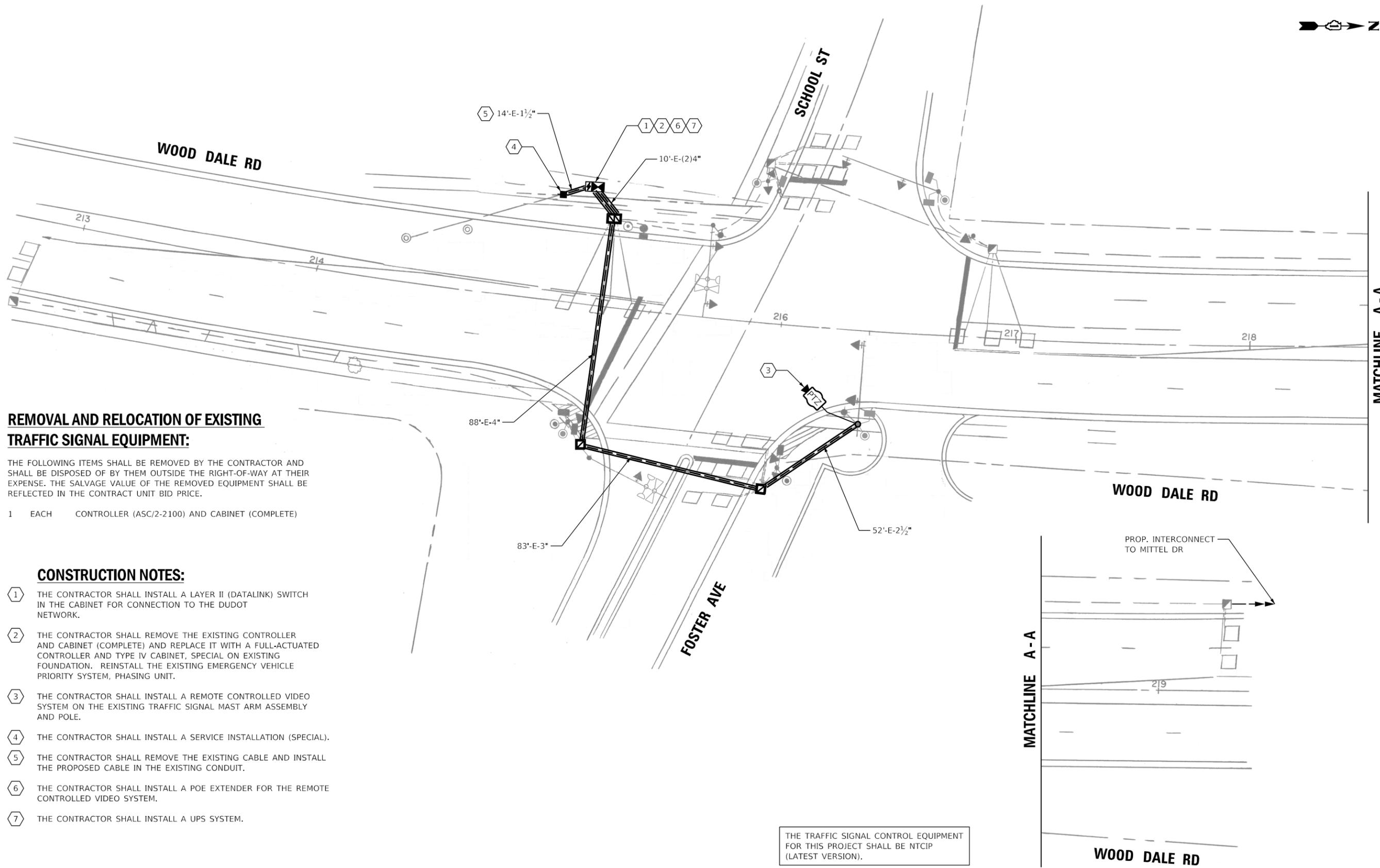
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
PROSPECT AVE AND PIERCE RD/MARINO CT**

SCALE: SHEET 13 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	37
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				



**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

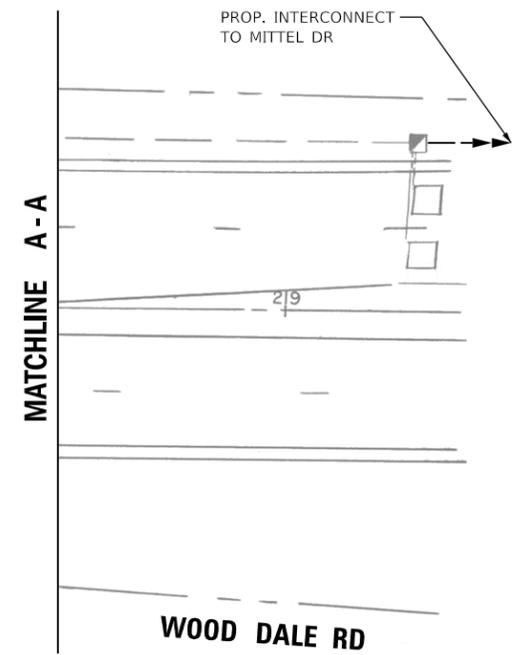
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2-2100) AND CABINET (COMPLETE)

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 6 THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.
- 7 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).



MATCHLINE A - A

MATCHLINE A - A

**DUDOT**



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

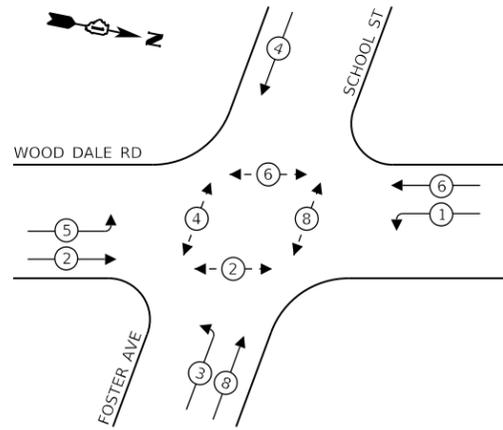
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 2  
PTZ PLAN - WOOD DALE RD AND FOSTER AVE/SCHOOL ST**

SCALE: 1"=20' SHEET 14 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	38
			CONTRACT NO. 61H96	
		ILLINOIS FED. AID PROJECT		

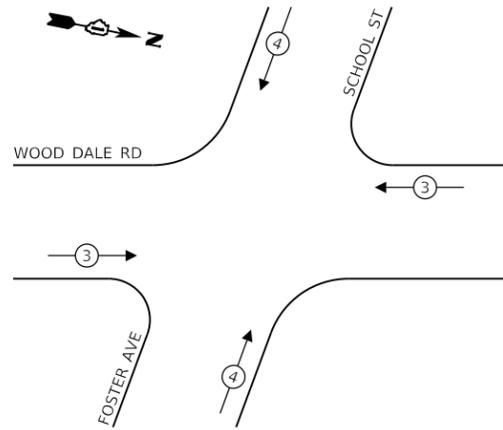
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				778

ENERGY COSTS TO:

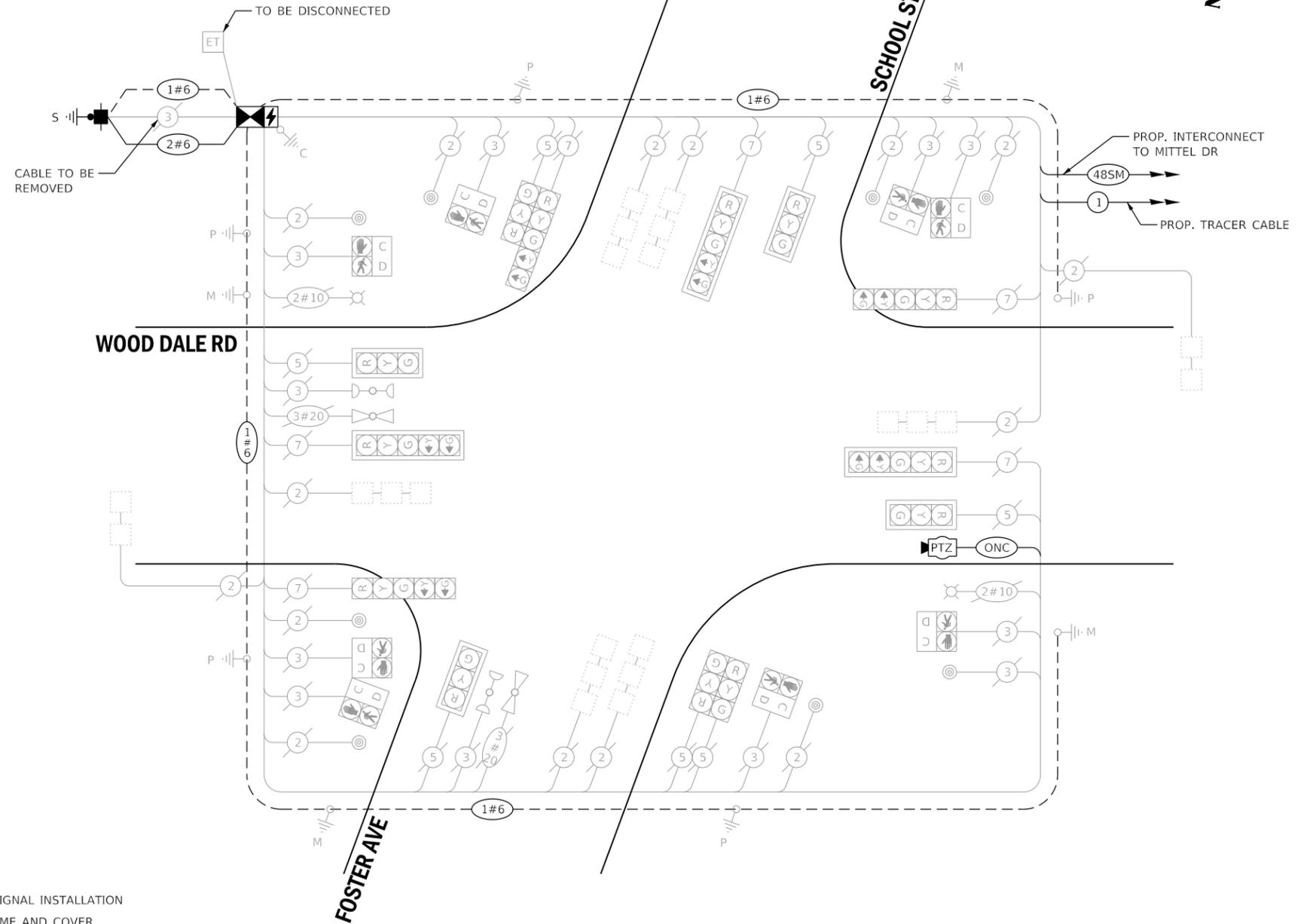
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
34	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
28	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
14	FOOT	ROD AND CLEAN EXISTING CONDUIT
314	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	POE EXTENDER



**CABLE PLAN**  
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

**DUDOT**



USER NAME = dwiktorzak  
DESIGNED - ZH  
DRAWN - RG  
PLOT SCALE = 40,0000 ' / in.  
CHECKED - DW  
PLOT DATE = 6/12/2022  
DATE -

REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

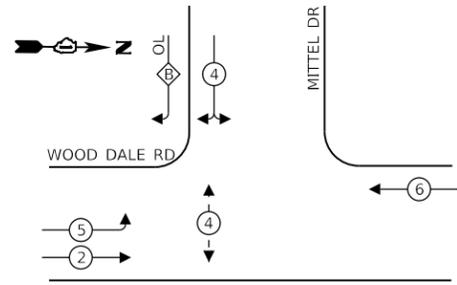
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
WOOD DALE RD AND SCHOOL ST/FOSTER AVE**

SCALE: SHEET 15 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-DCCSS-04-TL	DUPAGE	293	39
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

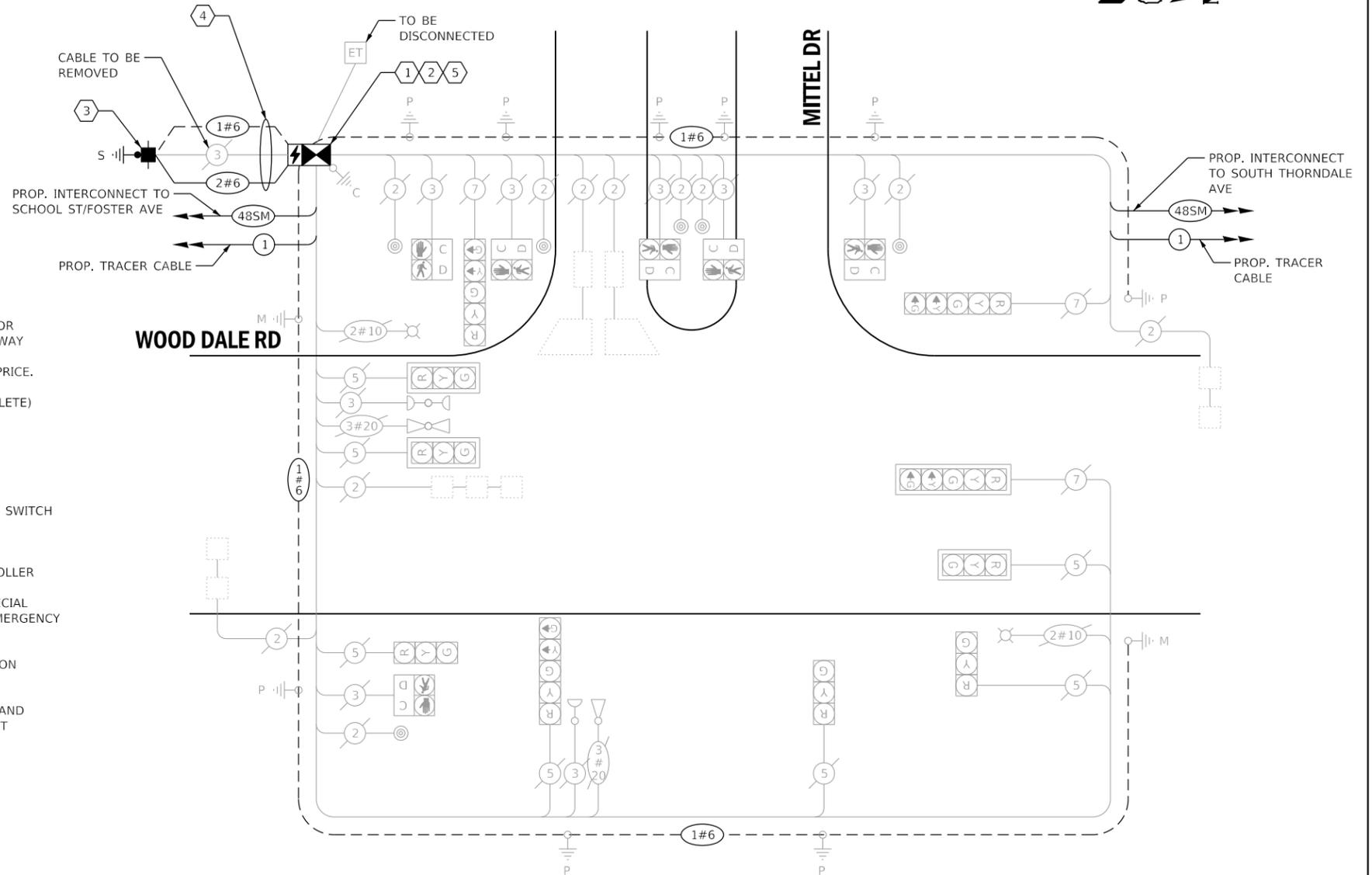
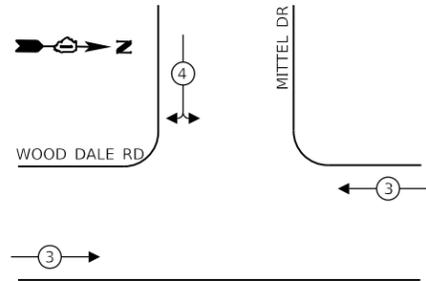
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2-2100) AND CABINET (COMPLETE)

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (45'-E-1 1/2").
- 5 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				622

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
65	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
5	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
45	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
45	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

**DUDOT**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2 WOOD DALE RD AND MITTEL DR**

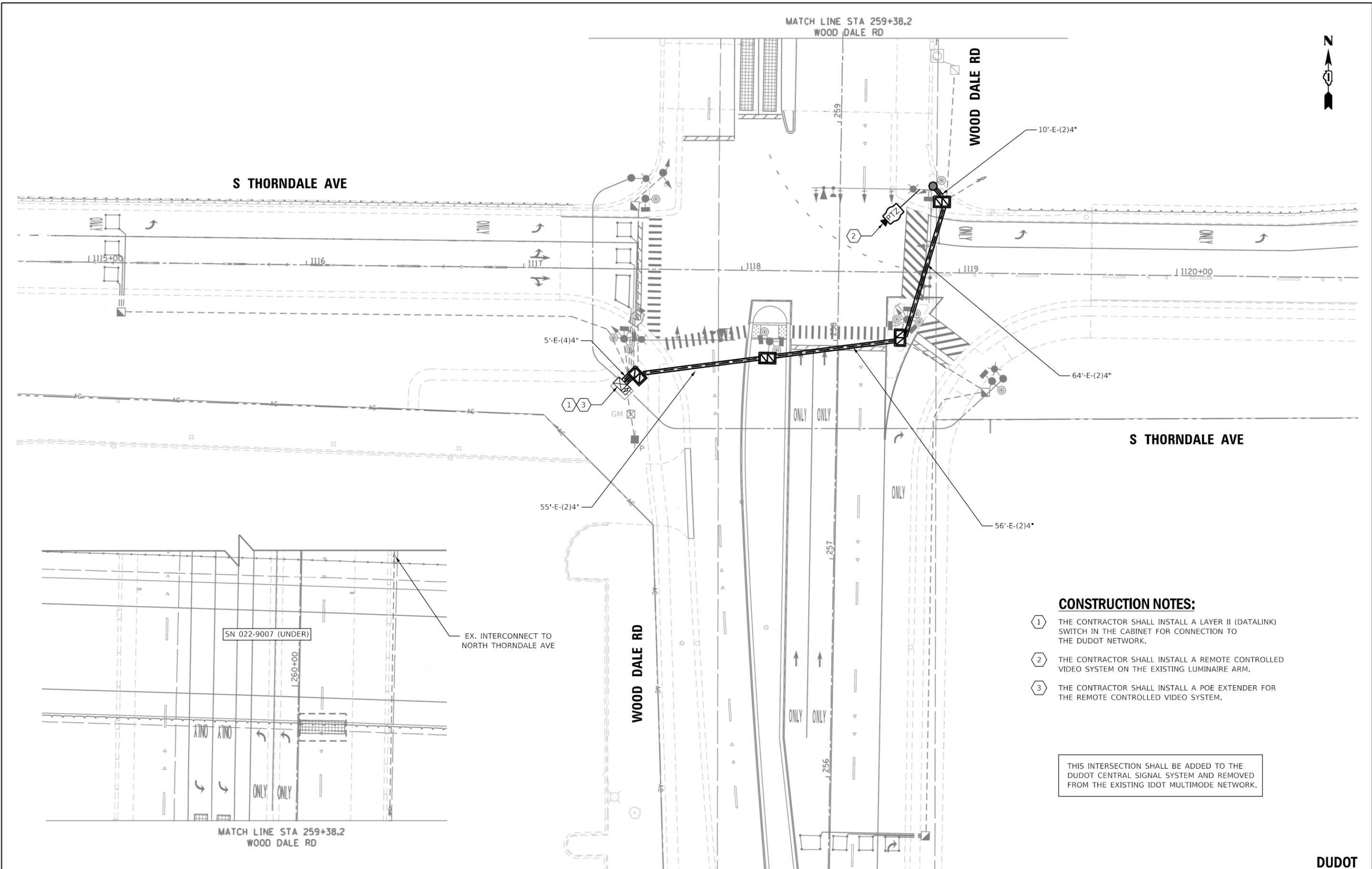
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	40
			CONTRACT NO. 61H96	

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET 16 OF 21 SHEETS STA. TO STA.



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ③ THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING IDOT MULTIMODE NETWORK.

SN 022-9007 (UNDER)

EX. INTERCONNECT TO NORTH THORNDALE AVE



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 7/7/2022	CHECKED - ZH	REVISED -
	DATE -	REVISED -

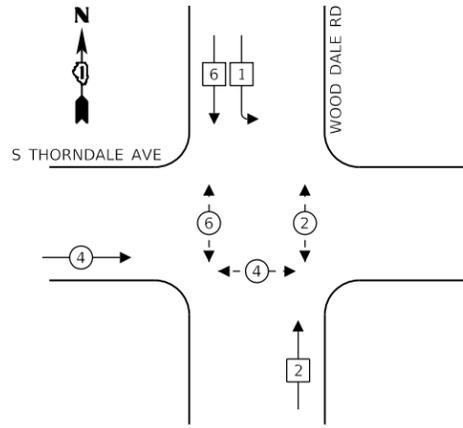
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 2  
PTZ PLAN - SOUTH THORNDALE AVE AND WOOD DALE RD

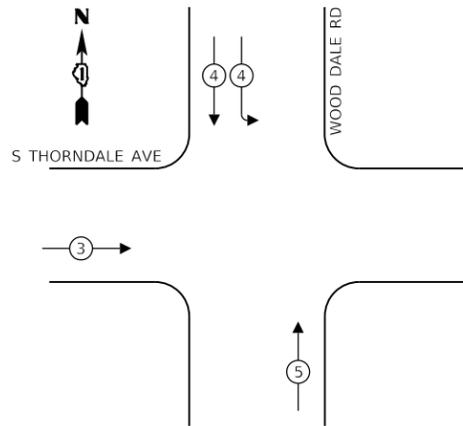
SCALE: 1"=20' SHEET 17 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H96	

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**LEGEND:**

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

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING IDOT MULTIMODE NETWORK.

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	10	20	100	200
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	20	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
<b>TOTAL =</b>				<b>1421</b>

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

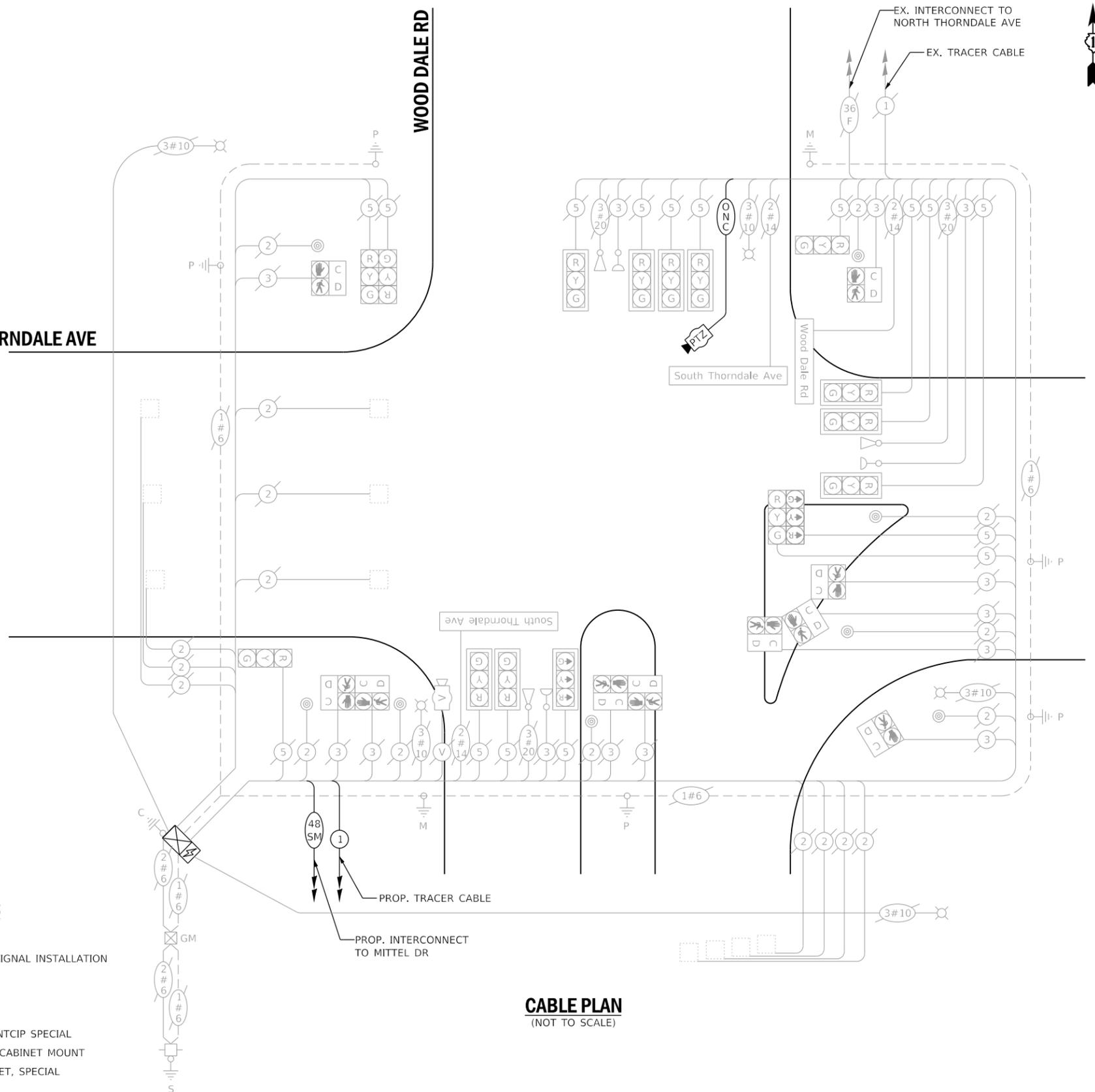
421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
297	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	POE EXTENDER

**CABLE PLAN  
(NOT TO SCALE)**



<b>DLZ</b>	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
	PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

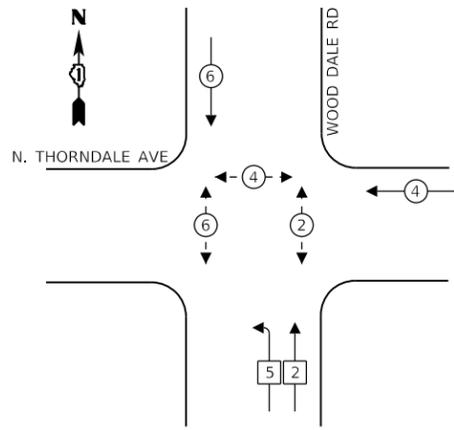
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
WOOD DALE RD AND SOUTH THORNDALE AVE

SCALE: SHEET 18 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-DCCSS-04-TL	DUPAGE	293	42
			CONTRACT NO. 61H96	
		ILLINOIS FED. AID PROJECT		

DUDOT

**EXISTING CONTROLLER SEQUENCE**



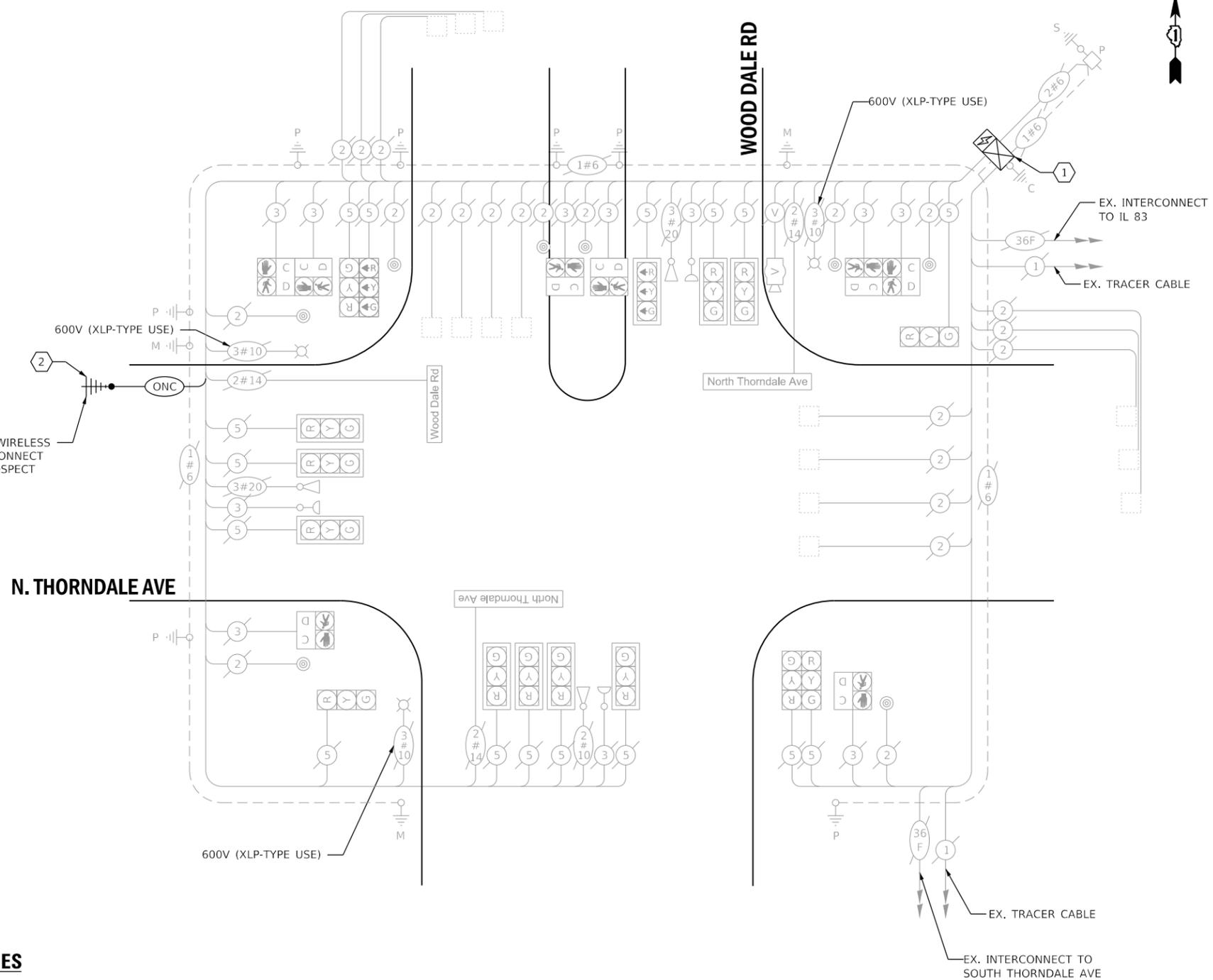
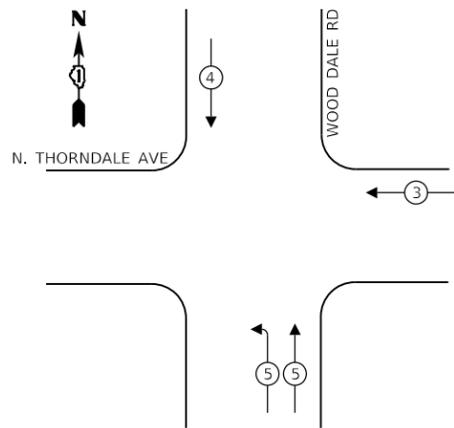
**LEGEND:**

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

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A PROPOSED WIRELESS INTERCONNECT.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	20	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	3	250	50	375
PTZ CAMERA	-	75	100	-
<b>TOTAL =</b>				<b>1181</b>

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
91	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	WIRELESS TRANSMISSION SYSTEM POINT TO POINT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING IDOT MULTIMODE NETWORK.

PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**DUDOT**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

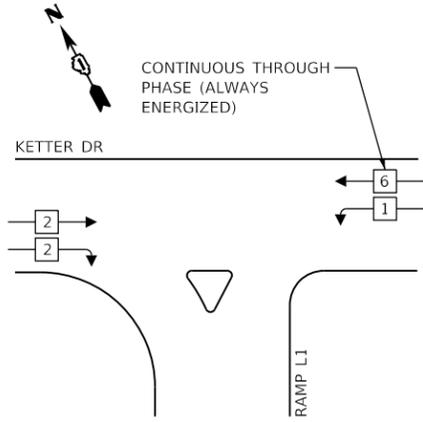
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
WOOD DALE RD AND NORTH THORNDALE AVE**

SCALE: SHEET 19 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	43
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

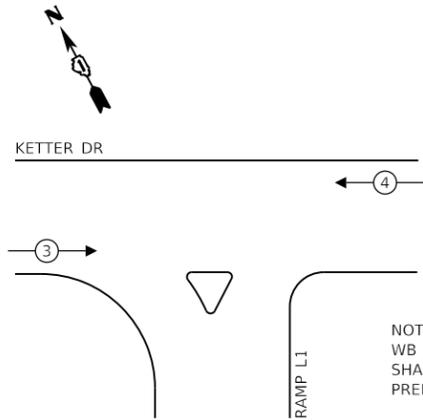
- ← \* → SINGLE ENTRY PHASE
- ← \* → PROTECTED PHASE
- ← - \* - → PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← \* OL → OVERLAP

**CONSTRUCTION NOTES:**

1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.

THIS INTERSECTION SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE EXISTING MULTIMODE NETWORK.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



NOTE: WB THROUGH MOVEMENT (PHASE 6) SHALL REMAIN ENERGIZED FOR ALL PREEMPTORS.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44
(YELLOW)	8	20	5	8
(GREEN)	10	12	45	54
CONT. (GREEN)	2	12	100	24
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	20	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				255

ENERGY COSTS TO:

**VILLAGE OF ITASCA**

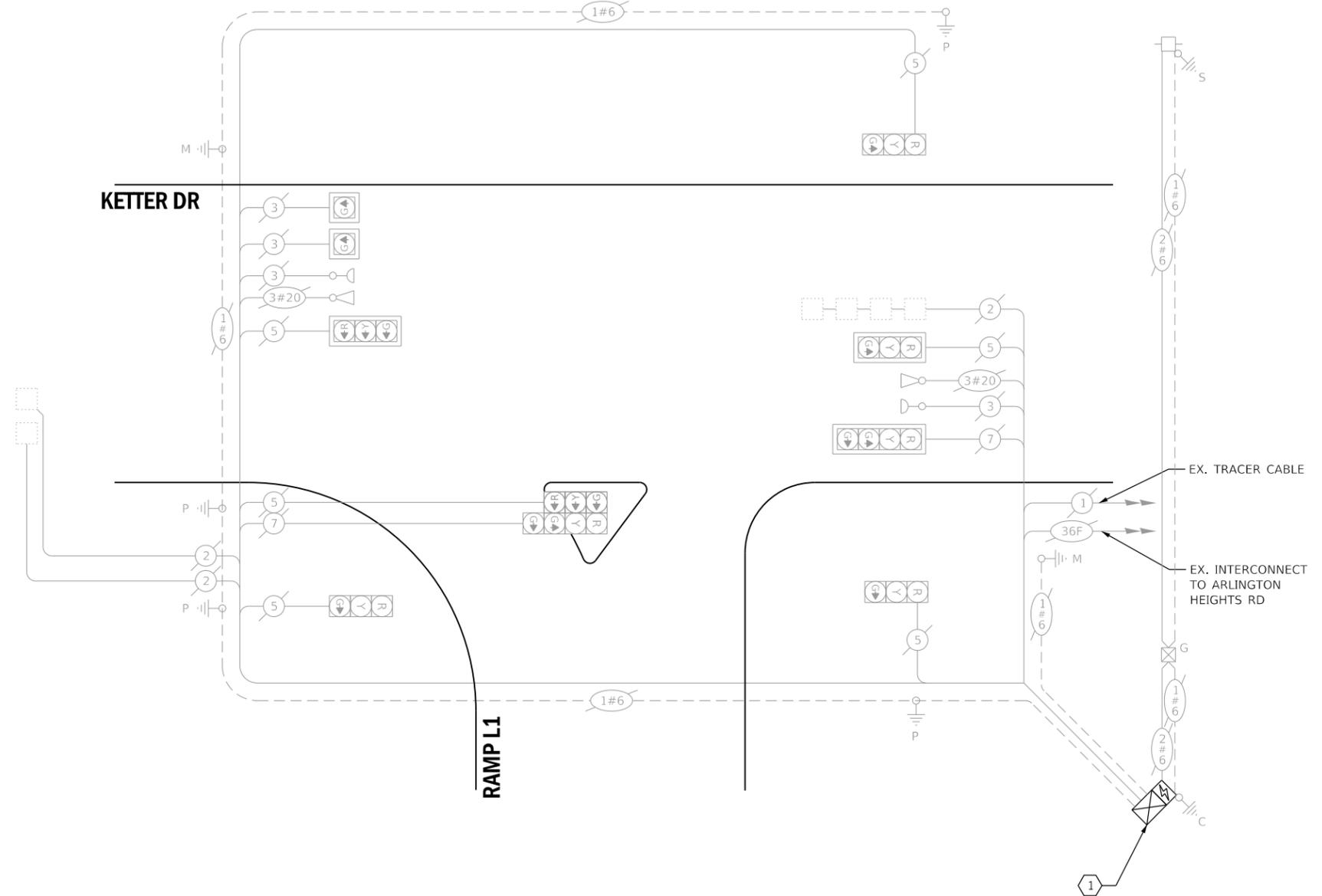
550 W. IRVING PARK RD.  
ITASCA, IL 60143

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

**KETTER DR**



**CABLE PLAN**  
(NOT TO SCALE)



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

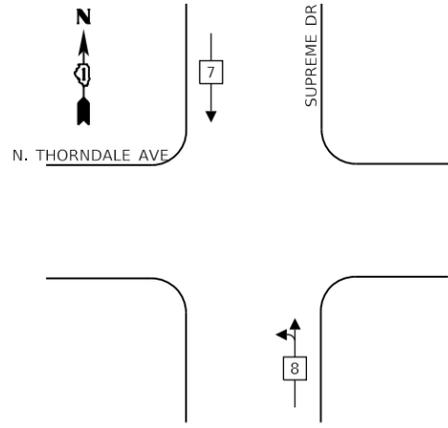
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
KETTER DR AND RAMP L1**

SCALE: SHEET 20 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	44
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	

**DUDOT**

**EXISTING CONTROLLER SEQUENCE**



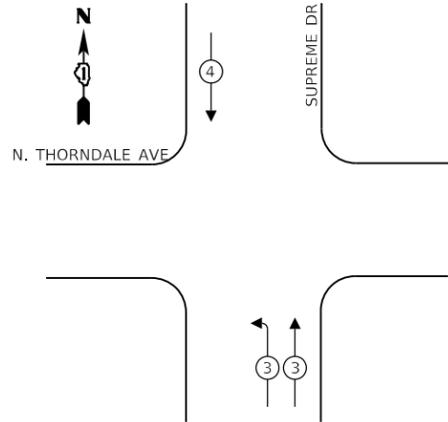
**LEGEND:**

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

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	17	12	45	92
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180
LUMINAIRE	3	250	50	375
PTZ CAMERA	-	75	100	-
<b>TOTAL =</b>				<b>1087</b>

ENERGY COSTS TO:

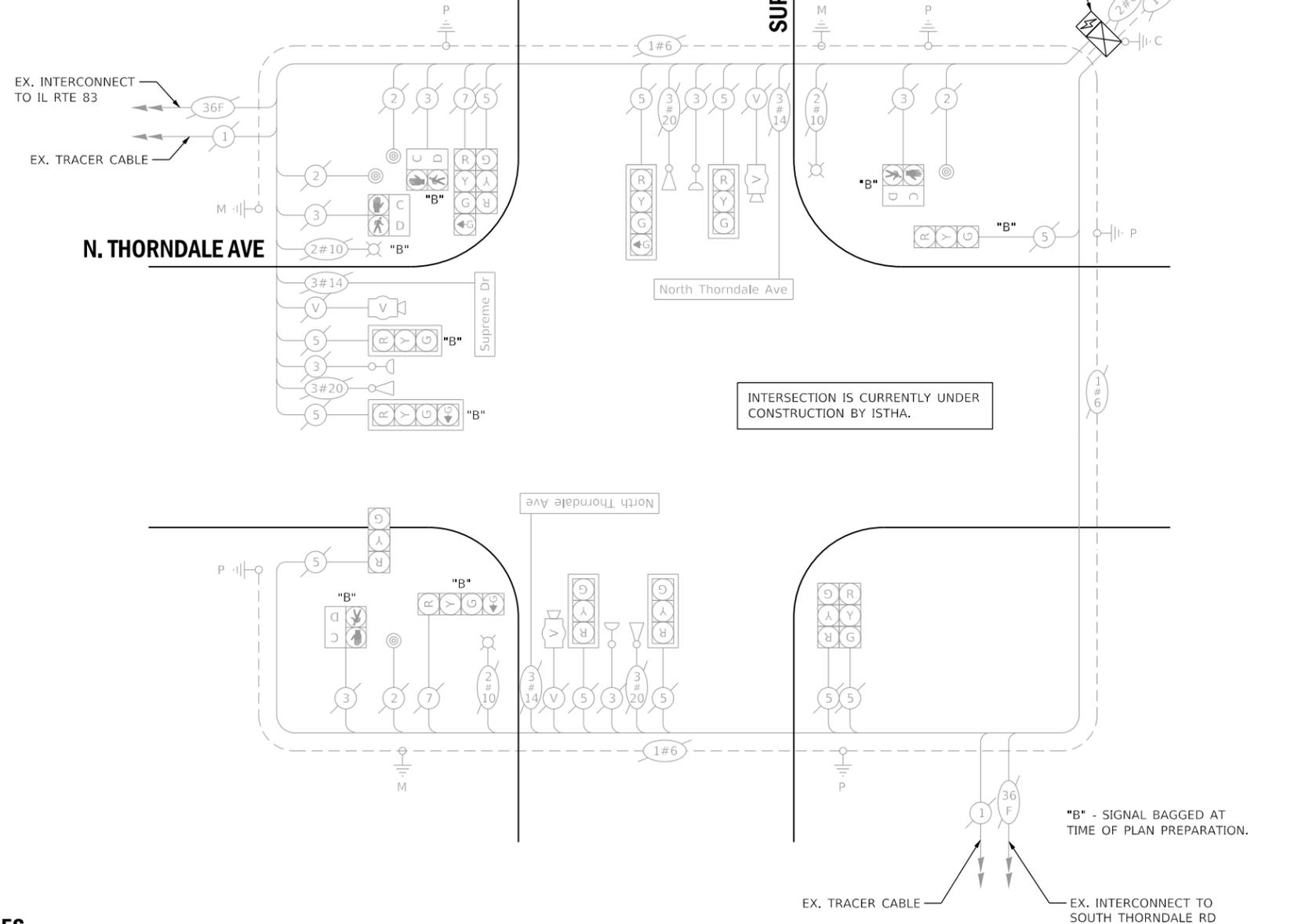
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



**CABLE PLAN**

(NOT TO SCALE)

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "ECON 111".

THE CONTROLLER SHALL CONTINUE OPERATING WITH THE IDOT CLOSED LOOP SYSTEM. THE LAYER II SWITCH AND VIDEO DETECTION SHALL BE CONFIGURED AND CONNECTED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM FIELD NETWORK.

**DUDOT ECON 111**



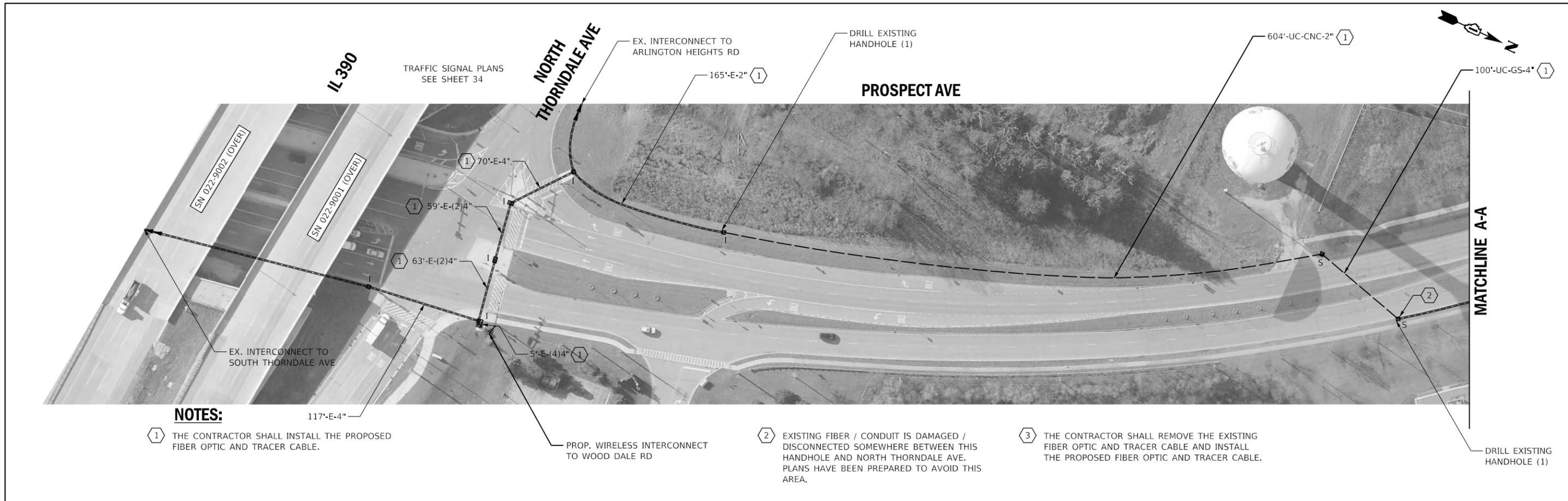
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 2  
NORTH THORNDALE AVE AND SUPREME DR**

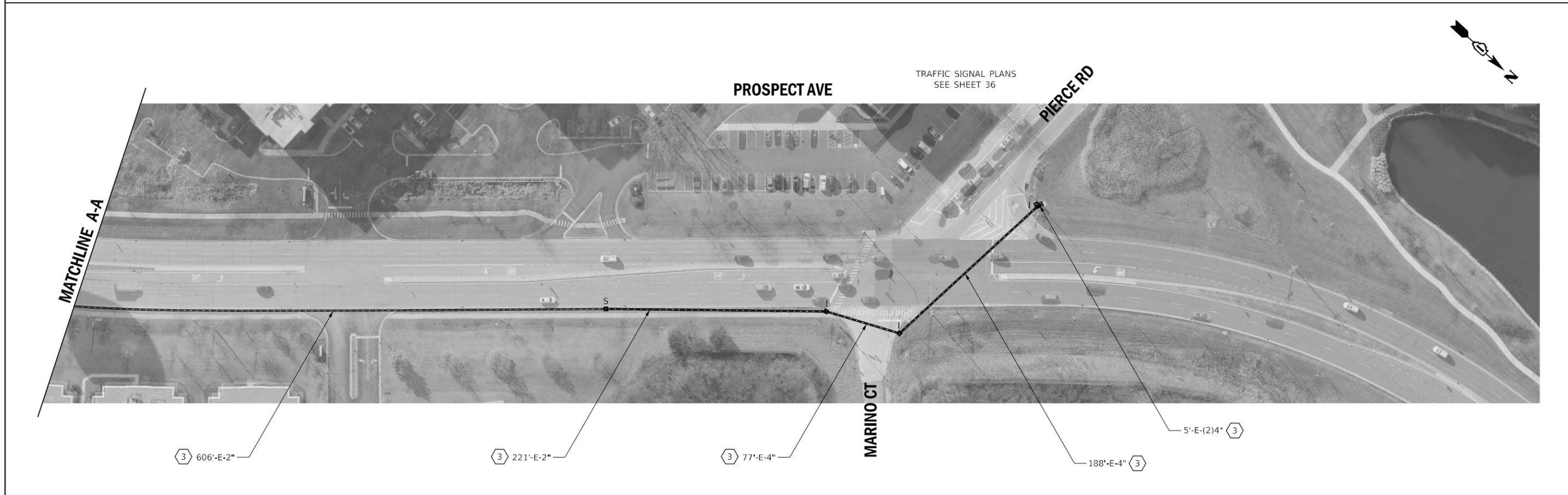
SCALE: SHEET 21 OF 21 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	45
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				



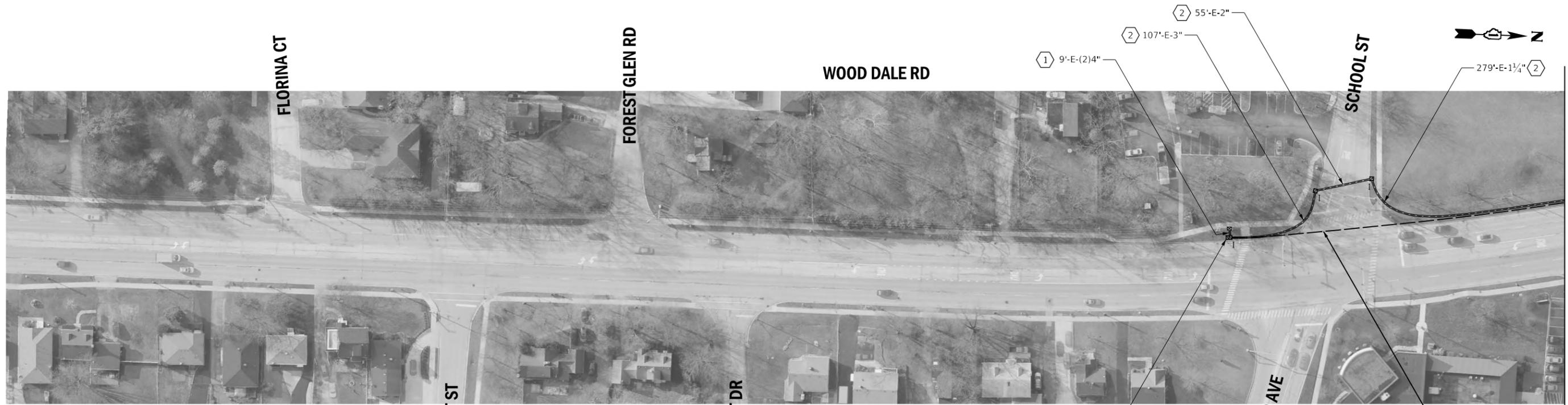
**NOTES:**

- ① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.
- ② EXISTING FIBER / CONDUIT IS DAMAGED / DISCONNECTED SOMEWHERE BETWEEN THIS HANDHOLE AND NORTH THORNDALE AVE. PLANS HAVE BEEN PREPARED TO AVOID THIS AREA.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING FIBER OPTIC AND TRACER CABLE AND INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.



	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED INTERCONNECT PLAN - AREA 2 LOCATION A - PROSPECT AVE</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN - RG	REVISED -		VAR.	19-DCCSS-04-TL	DUPAGE	293	46		
PLOT DATE = 6/13/2022	CHECKED - ZH	REVISED -			SCALE: 1"=50'    SHEET 1 OF 3 SHEETS    STA.    TO STA.		CONTRACT NO. 61H96		ILLINOIS	FED. AID PROJECT	
DATE -	DATE -	REVISED -									

FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT Central\CADD\_Sheets\sh-Int-A2-Prospect.dgn  
Default



**NOTES:**

① THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.

② EXISTING PLANS INDICATE EXISTING CONDUIT IS UNDERSIZED (<2" TYPICALLY). PLANS HAVE BEEN PREPARED TO BYPASS THE UNDERSIZED CONDUIT.

DRILL EXISTING HANDHOLE (1)

TRAFFIC SIGNAL PLANS SEE SHEET 38

FLORINA CT

FOREST GLEN RD

WOOD DALE RD

SCHOOL ST

ELMHURST ST

HILLCREST DR

FOSTER AVE

MATCHLINE B-B

MATCHLINE B-B

WOOD DALE RD

HAWTHORNE AVE

MATCHLINE C-C SEE SHEET 48

DRILL EXISTING HANDHOLE (2)

400'-UC-CNC-2" ①

391'-UC-CNC-2" ①

400'-UC-CNC-2" ①

THIS SYSTEM HANDHOLE SHALL BE PLACED IN THE VICINITY OF THE SCHOOL ZONE MARKINGS FOR FUTURE USE, AS DIRECTED BY THE ENGINEER.



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

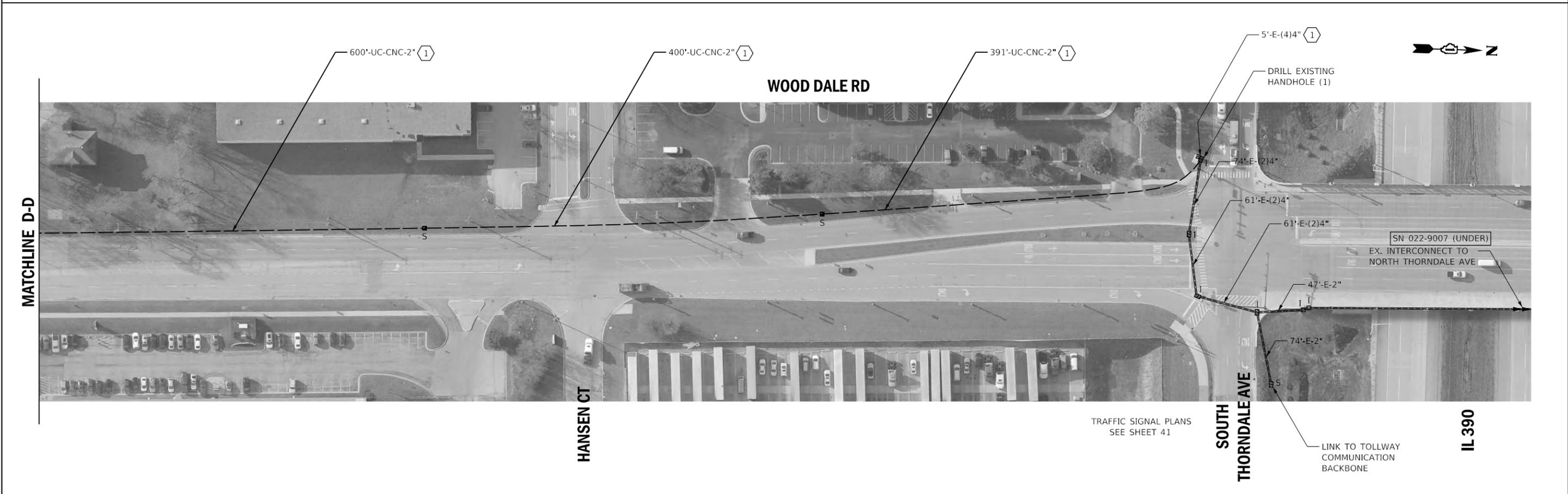
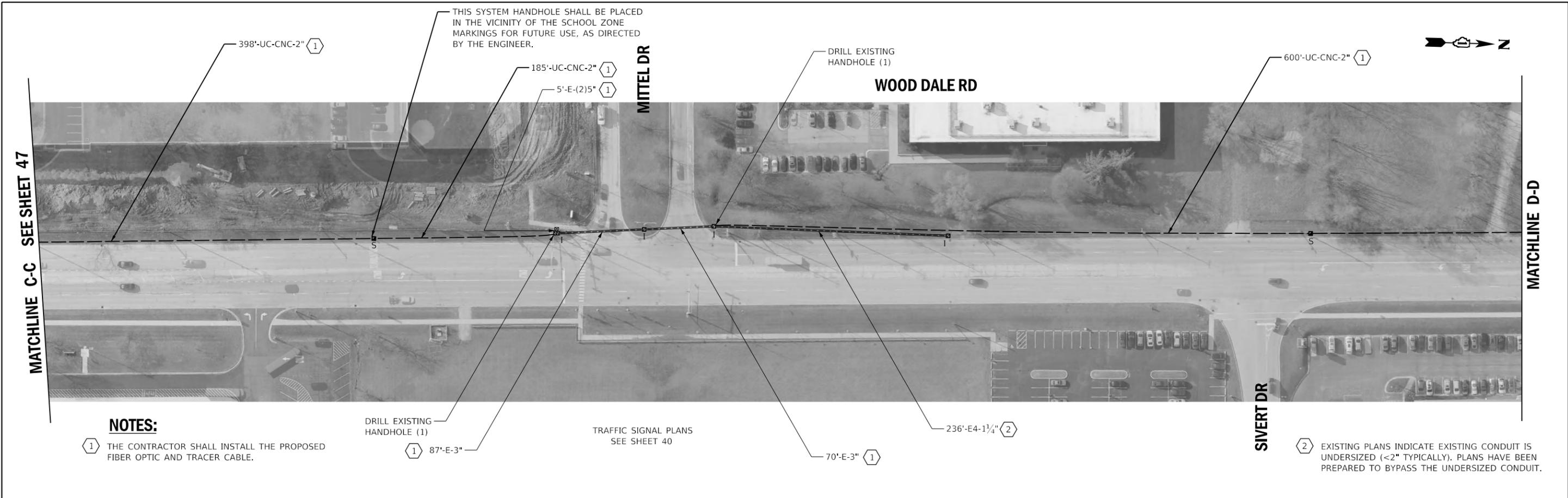
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN - AREA 2  
LOCATION B - WOOD DALE RD

SCALE: 1"=50'

SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	47
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

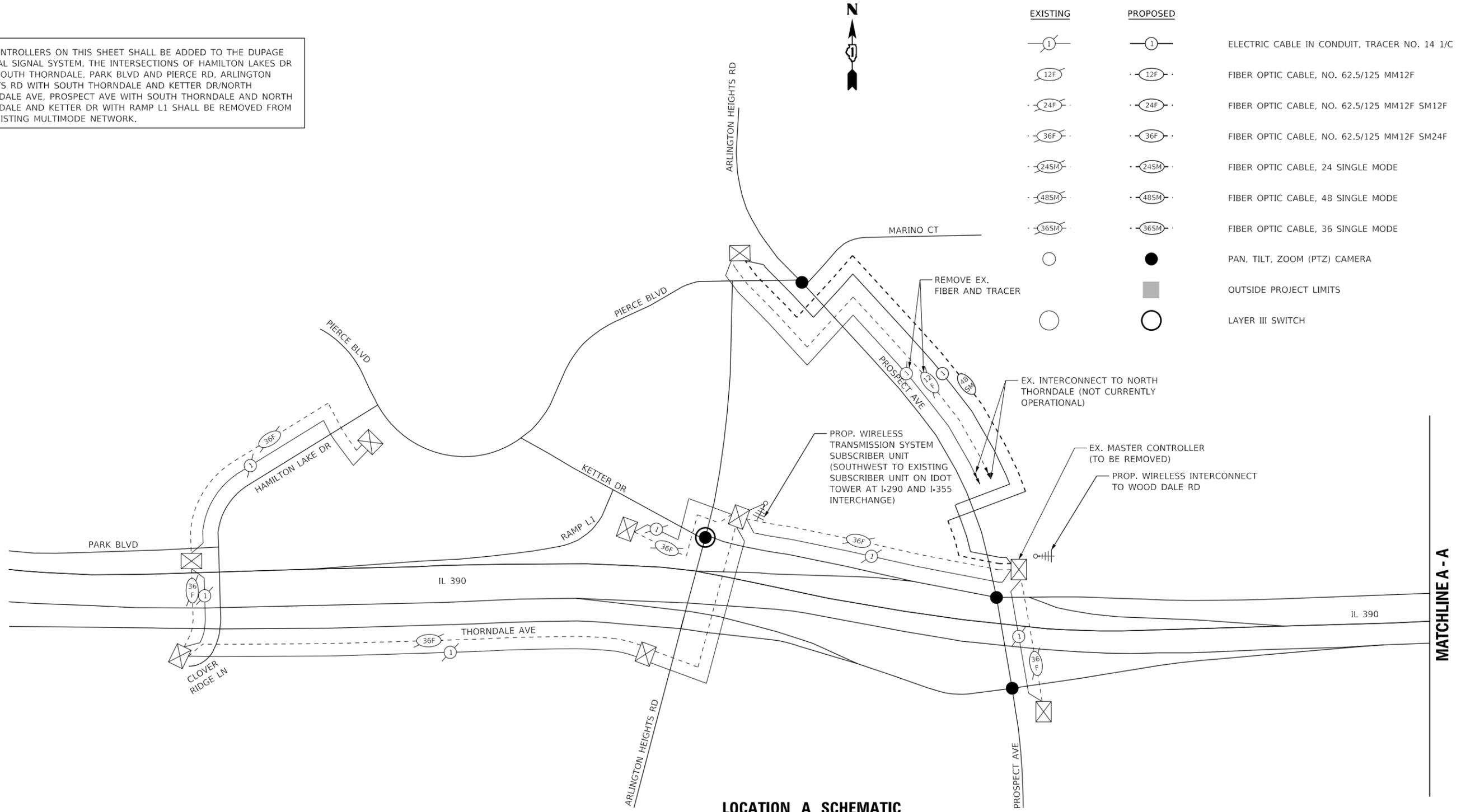


	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED INTERCONNECT PLAN - AREA 2</b> <b>LOCATION B - WOOD DALE RD</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=50'	SHEET 3 OF 3 SHEETS	STA. TO STA.	VAR.	19-DCCSS-04-TL	DUPAGE	293
	PLOT DATE = 7/7/2022	DATE -	REVISED -							CONTRACT NO. 61H96	
FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT Central\CADD_Sheets\sh-Int-A2-Wood Dale.dgn Default											

ALL CONTROLLERS ON THIS SHEET SHALL BE ADDED TO THE DUPAGE CENTRAL SIGNAL SYSTEM, THE INTERSECTIONS OF HAMILTON LAKES DR WITH SOUTH THORNDALE, PARK BLVD AND PIERCE RD, ARLINGTON HEIGHTS RD WITH SOUTH THORNDALE AND KETTER DR/NORTH THORNDALE AVE, PROSPECT AVE WITH SOUTH THORNDALE AND NORTH THORNDALE AND KETTER DR WITH RAMP L1 SHALL BE REMOVED FROM THE EXISTING MULTIMODE NETWORK.

**LEGEND**

EXISTING	PROPOSED	
		ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F
		FIBER OPTIC CABLE, 24 SINGLE MODE
		FIBER OPTIC CABLE, 48 SINGLE MODE
		FIBER OPTIC CABLE, 36 SINGLE MODE
		PAN, TILT, ZOOM (PTZ) CAMERA
		OUTSIDE PROJECT LIMITS
		LAYER III SWITCH



	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES</b> <b>AREA 2</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1000.0000' / in.	CHECKED - ZH	REVISED -					VAR.	19-DCCSS-04-TL	DUPAGE	293	49
	PLOT DATE = 6/12/2022	DATE -	REVISED -		SCALE:	SHEET 1	OF 3	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 61H96	

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### AREA 2 FIBER NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIBER SPLICES AND TERMINATIONS FOR ALL PROPOSED FIBER OPTIC CABLES AS SPECIFIED IN THE SPECIAL PROVISIONS FOR FIBER OPTIC CABLES.

TERMINATIONS FOR EXISTING FIBER OPTIC CABLES AND SPLICES BETWEEN EXISTING FIBER OPTIC CABLES SHALL BE PAID FOR SEPARATELY. FOR BIDDING PURPOSES AN ESTIMATED QUANTITY OF SPLICES AND TERMINATIONS HAS BEEN INCLUDED IN THE QUANTITIES.

THE ACTUAL NUMBER OF TERMINATIONS AND SPLICES AT EACH LOCATION SHALL BE BASED ON THE NETWORK CONFIGURATION DOCUMENT SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE TRAFFIC ENGINEER. SEE THE SPECIAL PROVISION LAYER III SWITCH. SPLICES AND TERMINATIONS SHALL BE REALLOCATED BY THE ENGINEER, AS NEEDED, BETWEEN THE INTERCONNECT AREAS.

AREA 2 FIBER SPLICE AND TERMINATION SCHEDULE:

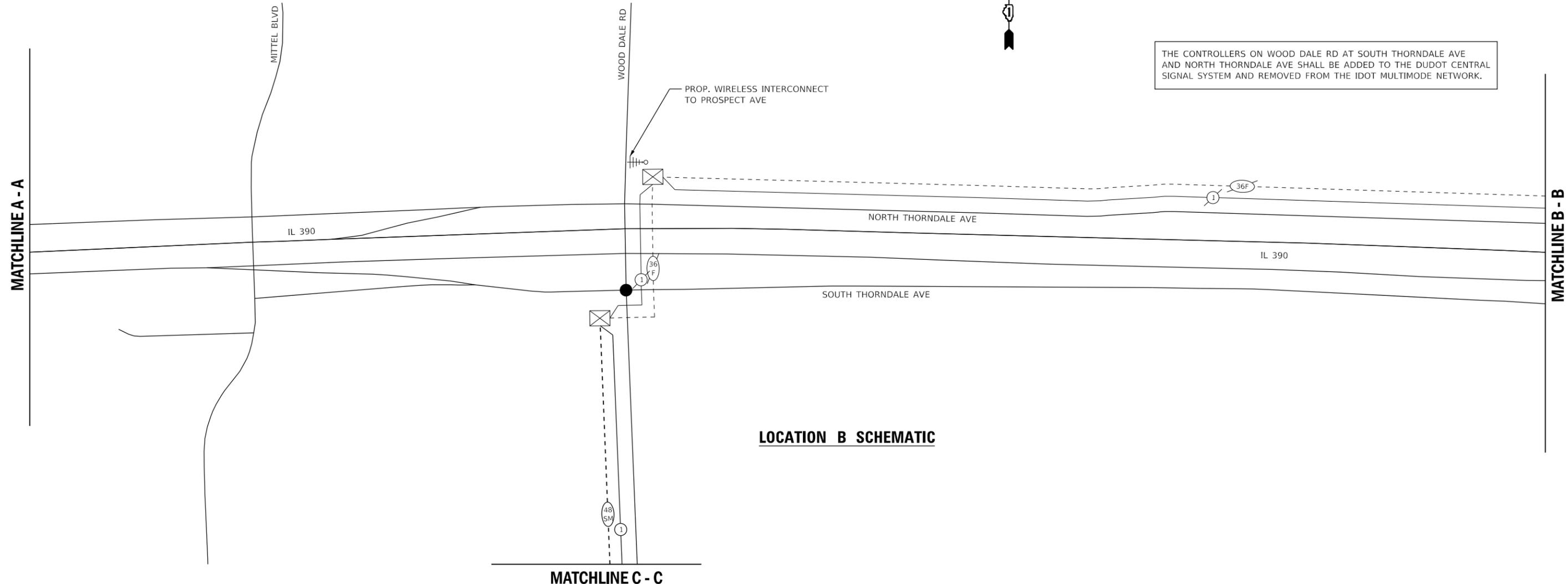
ITEM DESCRIPTION	INCLUDED IN FIBER OPTIC CABLE PAY ITEM	TO PAID FOR SEPARATELY
TERMINATE FIBER IN CABINET	42	198
SPLICE FIBER IN CABINET	24	54

### SCHEDULE OF QUANTITIES

10	CU YD	NON-SPECIAL WASTE DISPOSAL
260	GALLON	SPECIAL WASTE GROUNDWATER DISPOSAL
1	EACH	SOIL DISPOSAL ANALYSIS
0.17	L SUM	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN
0.17	L SUM	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT
1	CAL DA	REGULATED SUBSTANCES MONITORING
100	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
4766	FOOT	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
8	EACH	HANDHOLE
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6750	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
8	EACH	DRILL EXISTING HANDHOLE
1095	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
825	FOOT	ROD AND CLEAN EXISTING CONDUIT
6820	FOOT	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE
1095	FOOT	REMOVE FIBER OPTIC CABLE FROM CONDUIT
198	EACH	TERMINATE FIBER IN CABINET
50	EACH	SPLICE FIBER IN CABINET
4	EACH	LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE

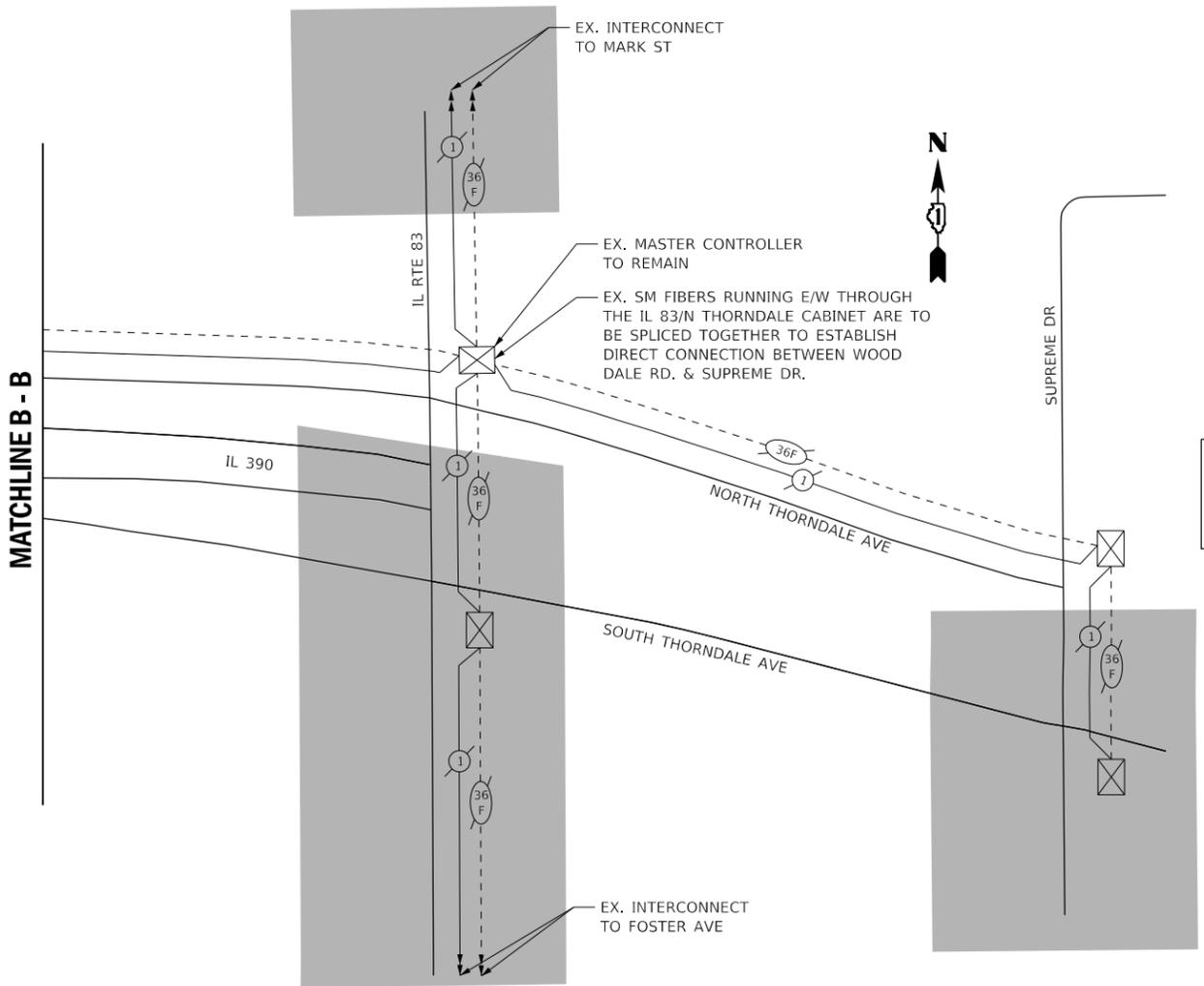
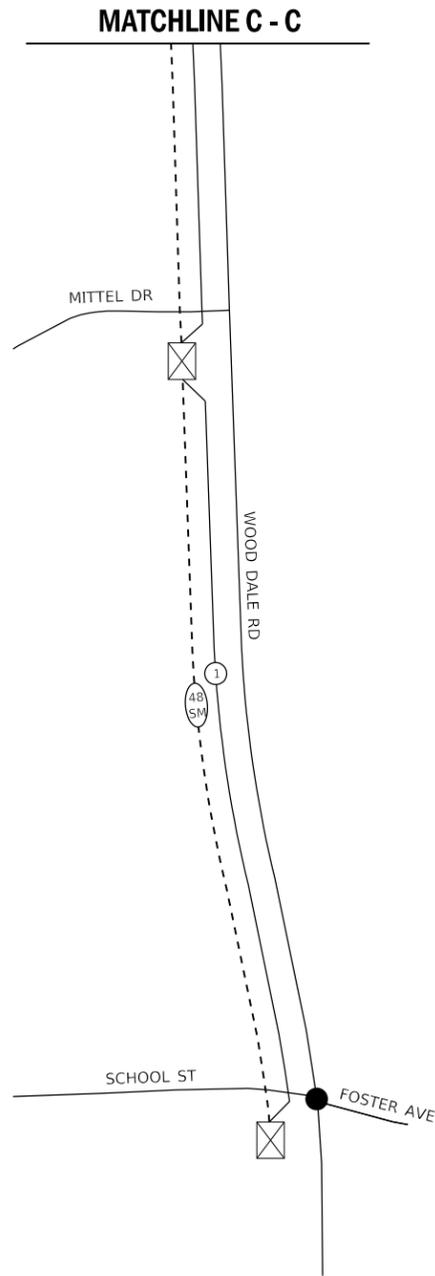
### LEGEND

EXISTING	PROPOSED	
		ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F
		FIBER OPTIC CABLE, 24 SINGLE MODE
		FIBER OPTIC CABLE, 48 SINGLE MODE
		FIBER OPTIC CABLE, 36 SINGLE MODE
		PAN, TILT, ZOOM (PTZ) CAMERA
		OUTSIDE PROJECT LIMITS
		LAYER III SWITCH



LOCATION B SCHEMATIC

THE CONTROLLERS ON WOOD DALE RD AT SOUTH THORNDALE AVE AND NORTH THORNDALE AVE SHALL BE ADDED TO THE DUDOT CENTRAL SIGNAL SYSTEM AND REMOVED FROM THE IDOT MULTIMODE NETWORK.



EXISTING	PROPOSED	
		ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F
		FIBER OPTIC CABLE, 24 SINGLE MODE
		FIBER OPTIC CABLE, 48 SINGLE MODE
		FIBER OPTIC CABLE, 36 SINGLE MODE
		PAN, TILT, ZOOM (PTZ) CAMERA
		OUTSIDE PROJECT LIMITS
		LAYER III SWITCH

THE CONTROLLER ON NORTH THORNDALE AVE AND SUPREME DR SHALL REMAIN ON THE IDOT MULTIMODE NETWORK UPON COMPLETION OF THE PROJECT. THE SWITCH AND VIDEO DETECTION SHALL BE CONFIGURED TO OPERATE WITHIN THE DUDOT CENTRAL SIGNAL SYSTEM USING ETHERNET AND SINGLEMODE FIBER.

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
		DRAWN - RG	REVISED -
	PLOT SCALE = 1000.0000' / in.	CHECKED - ZH	REVISED -
	PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES			
AREA 2			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

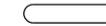
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-DCCSS-04-TL	DUPAGE	293	51
			CONTRACT NO. 61H96	
		ILLINOIS	FED. AID PROJECT	



**LEGEND**



PROPOSED INTERCONNECT AREA - SEE INTERCONNECT PLANS



PROPOSED SIGNAL IMPROVEMENT CORRIDOR



PROPOSED SIGNAL IMPROVEMENT LOCATION



**AREA 3**

**INTERSECTION PLANS**

#	LOCATION	SHEETS
117	COUNTY FARM RD AND ST CHARLES RD	54
120	COUNTY FARM RD AND IL RTE 64	55
43	JEWELL RD AND PLEASANT HILL RD	56
42	JEWELL RD AND GARY AVE	57

**INTERCONNECT PLANS**

	LOCATION	SHEETS
(A)	COUNTY FARM RD	58
(B)	JEWELL RD	59 - 60



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 2000.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 3  
AREA 3 LOCATION MAP**

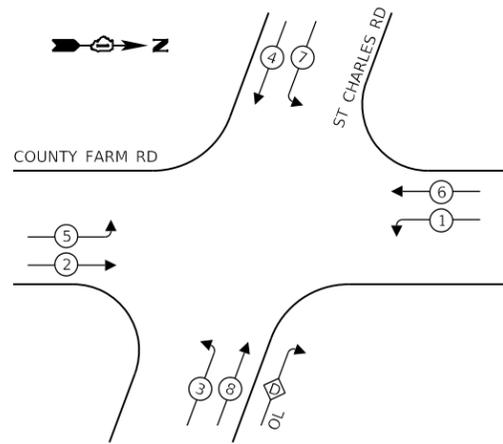
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H96	

**AREA 3 SIGNAL IMPROVEMENTS**

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL	COUNTY FARM RD AND		JEWELL RD AND	
				ST CHARLES RD	IL RTE 64	PLEASANT HILL RD	GARY AVE
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	1	1
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	34	34			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	34	34			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	14	14			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1			
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	14	14			
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	1	1			
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1	1			
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	1			
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	1	1			
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1	1			

**EXISTING CONTROLLER SEQUENCE**



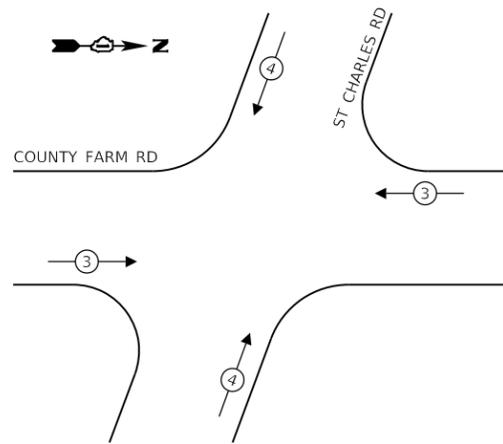
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (14'-E-1 1/2").
- ③ THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
PERMISSIVE ARROW	20	10	10	20
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				551

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

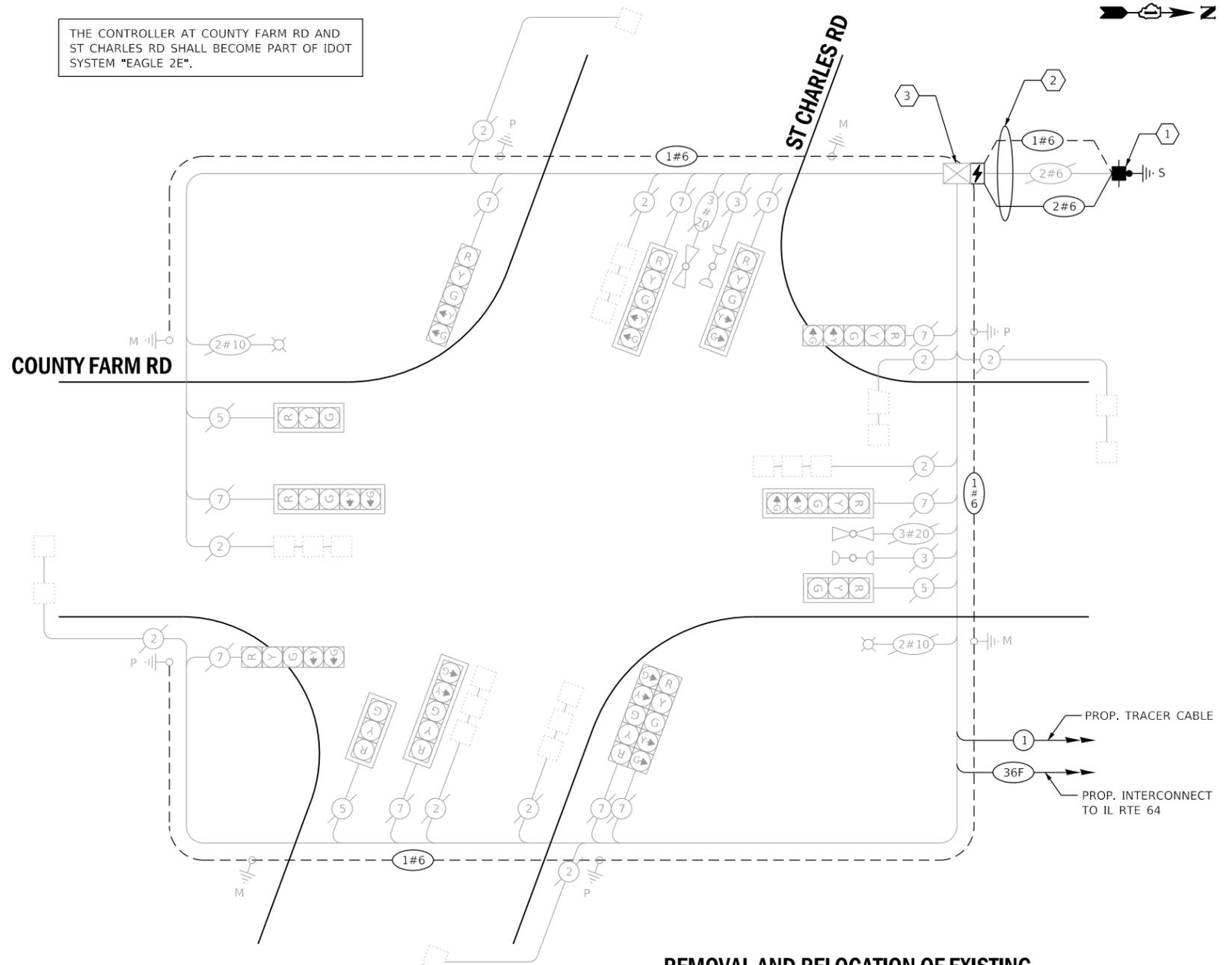
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
34	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
34	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
14	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
14	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

THE CONTROLLER AT COUNTY FARM RD AND ST CHARLES RD SHALL BECOME PART OF IDOT SYSTEM "EAGLE 2E".

COUNTY FARM RD

ST CHARLES RD



**CABLE PLAN**  
(NOT TO SCALE)

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH SERVICE INSTALLATION

**DUDOT EAGLE 2E**



USER NAME = dwiktorzak  
DESIGNED - ZH  
DRAWN - RG  
PLOT SCALE = 40.0000 ' / in.  
CHECKED - DW  
PLOT DATE = 6/12/2022  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

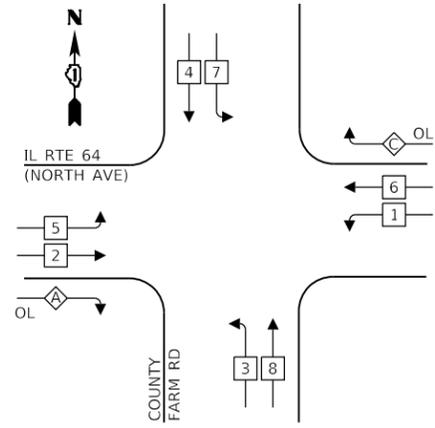
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 3  
COUNTY FARM RD AND ST CHARLES RD

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	54
CONTRACT NO. 61H96				
ILLINOIS		FED. AID PROJECT		

**EXISTING CONTROLLER SEQUENCE**



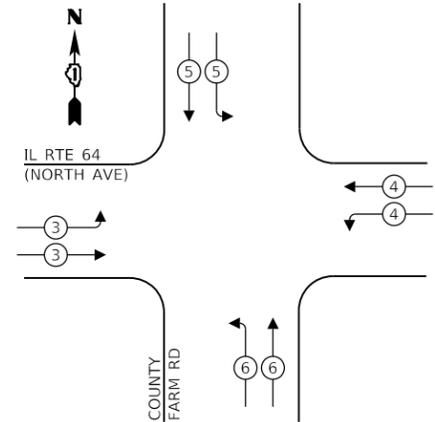
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

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

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

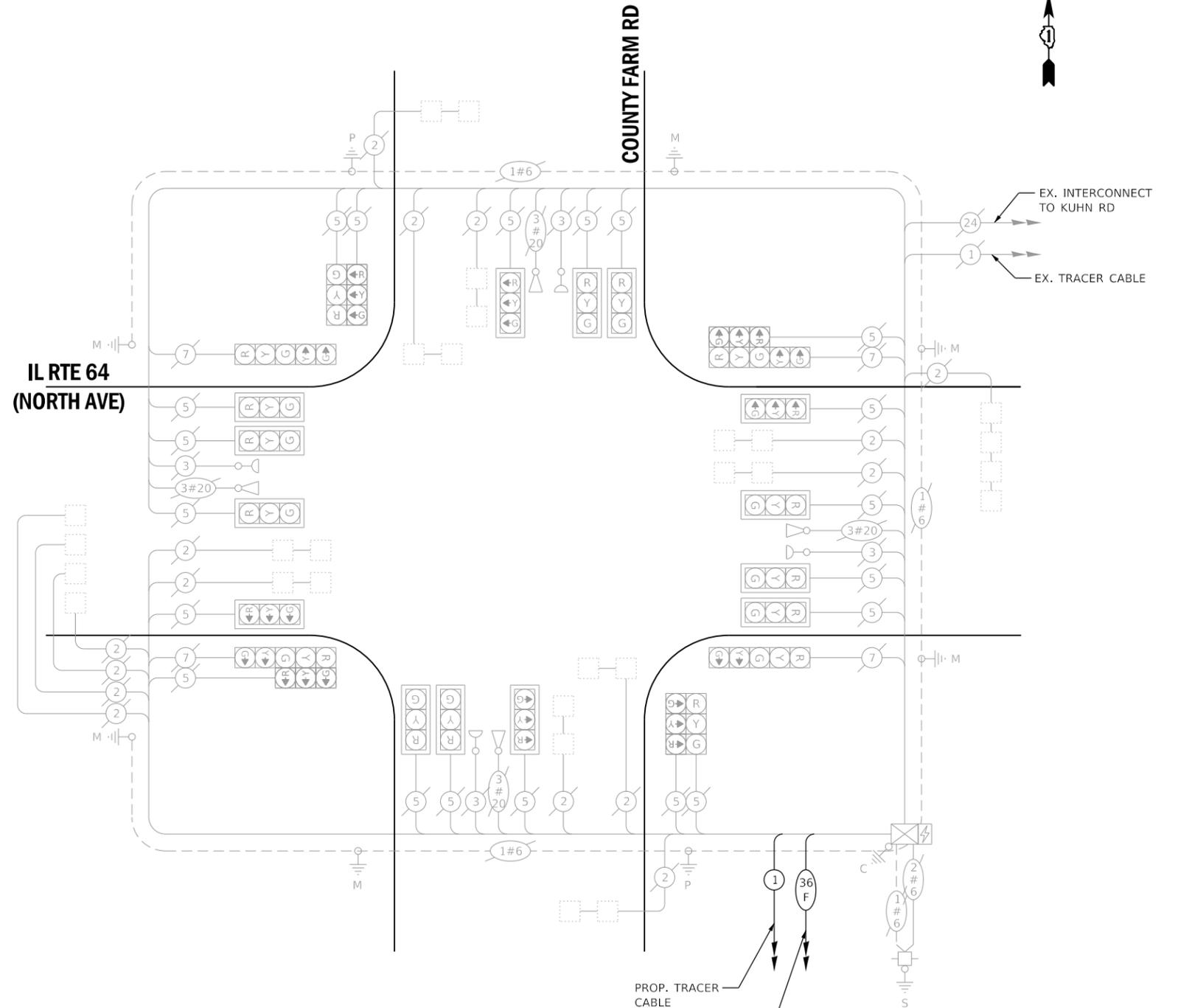
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	24	11	50	132
(YELLOW)	24	20	5	24
(GREEN)	24	12	45	130
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				419

ENERGY COSTS TO:  
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196  
 ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
 PHONE: (630)-424-5704  
 COMPANY: COMED LOMBARD  
 ACCOUNT NUMBER: 28380-06047

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

**IL RTE 64 (NORTH AVE)**



**CABLE PLAN (NOT TO SCALE)**

PROP. TRACER CABLE  
 PROP. INTERCONNECT TO ST CHARLES RD

THIS INTERSECTION SHALL REMAIN ON THE IDOT CLOSED LOOP SYSTEM "EAGLE 2E".



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 8/17/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

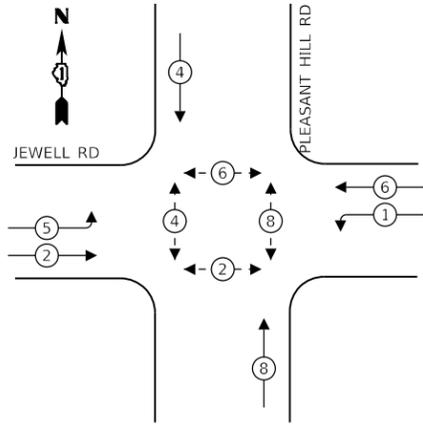
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 3 COUNTY FARM RD AND IL RTE 64**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	55
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	

**IDOT  
 TS 6425  
 EAGLE 2E**

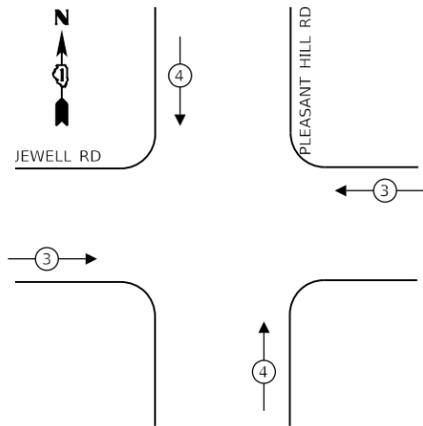
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
<b>TOTAL =</b>				<b>836</b>

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

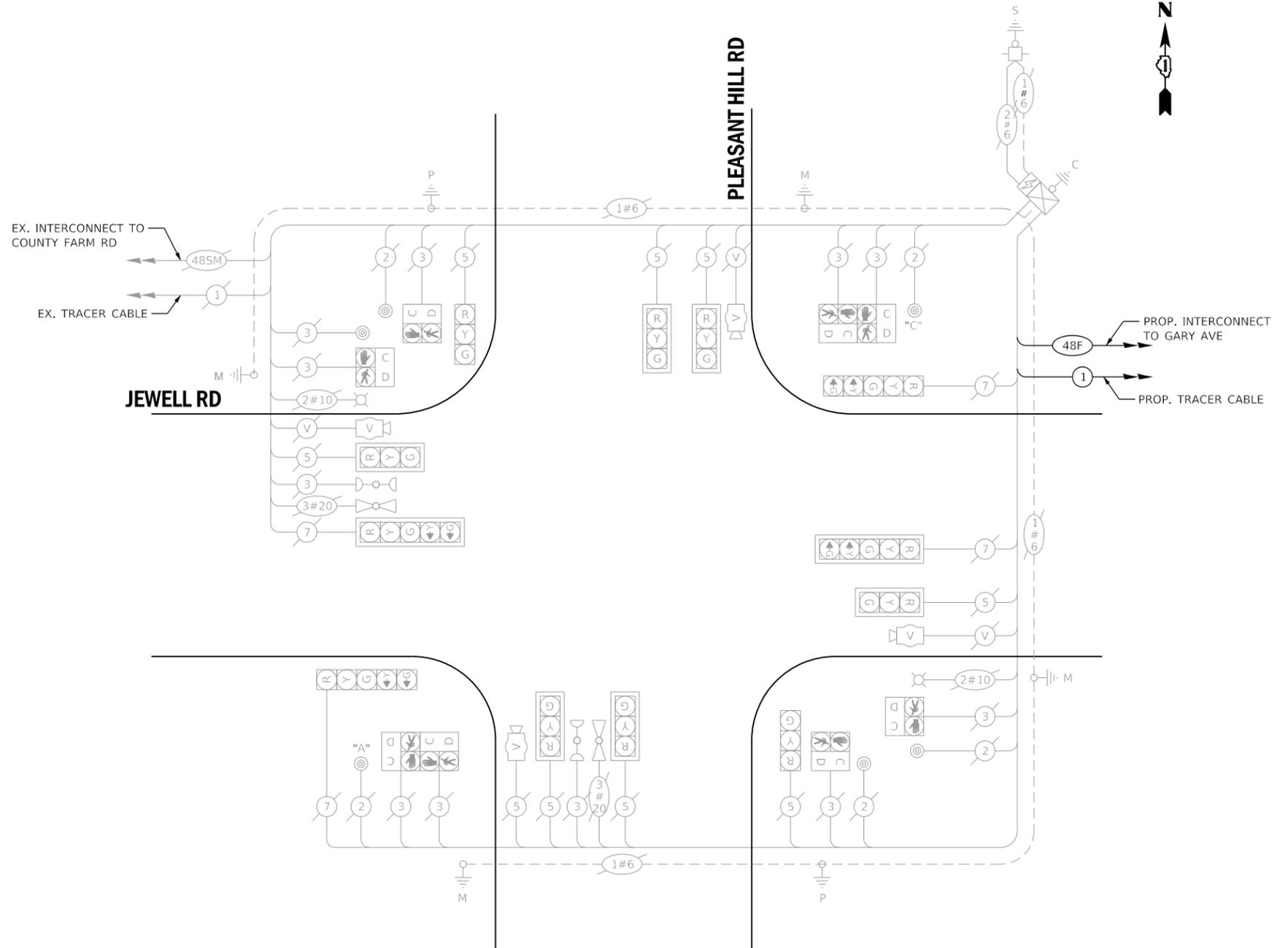
QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

EX. INTERCONNECT TO COUNTY FARM RD

EX. TRACER CABLE

JEWELL RD

PLEASANT HILL RD



PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4  
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8

**CABLE PLAN**  
(NOT TO SCALE)

TRAFFIC SIGNAL BEING MODIFIED  
BY IDOT CONTRACT # 61H22.



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

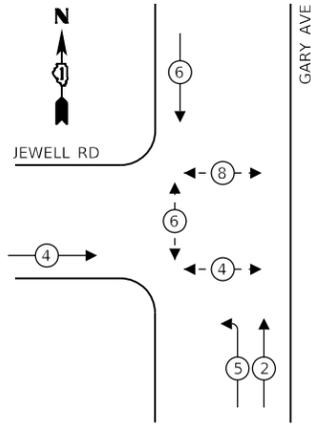
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 3  
JEWELL RD AND PLEASANT HILL RD**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	56
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**DUDOT**

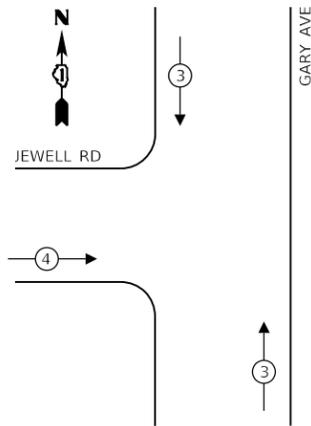
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
<b>TOTAL =</b>				<b>693</b>

ENERGY COSTS TO:

**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

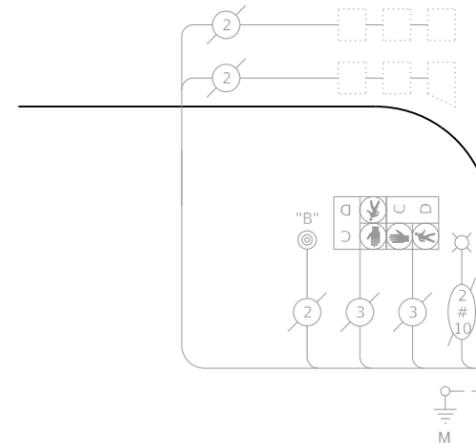
ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

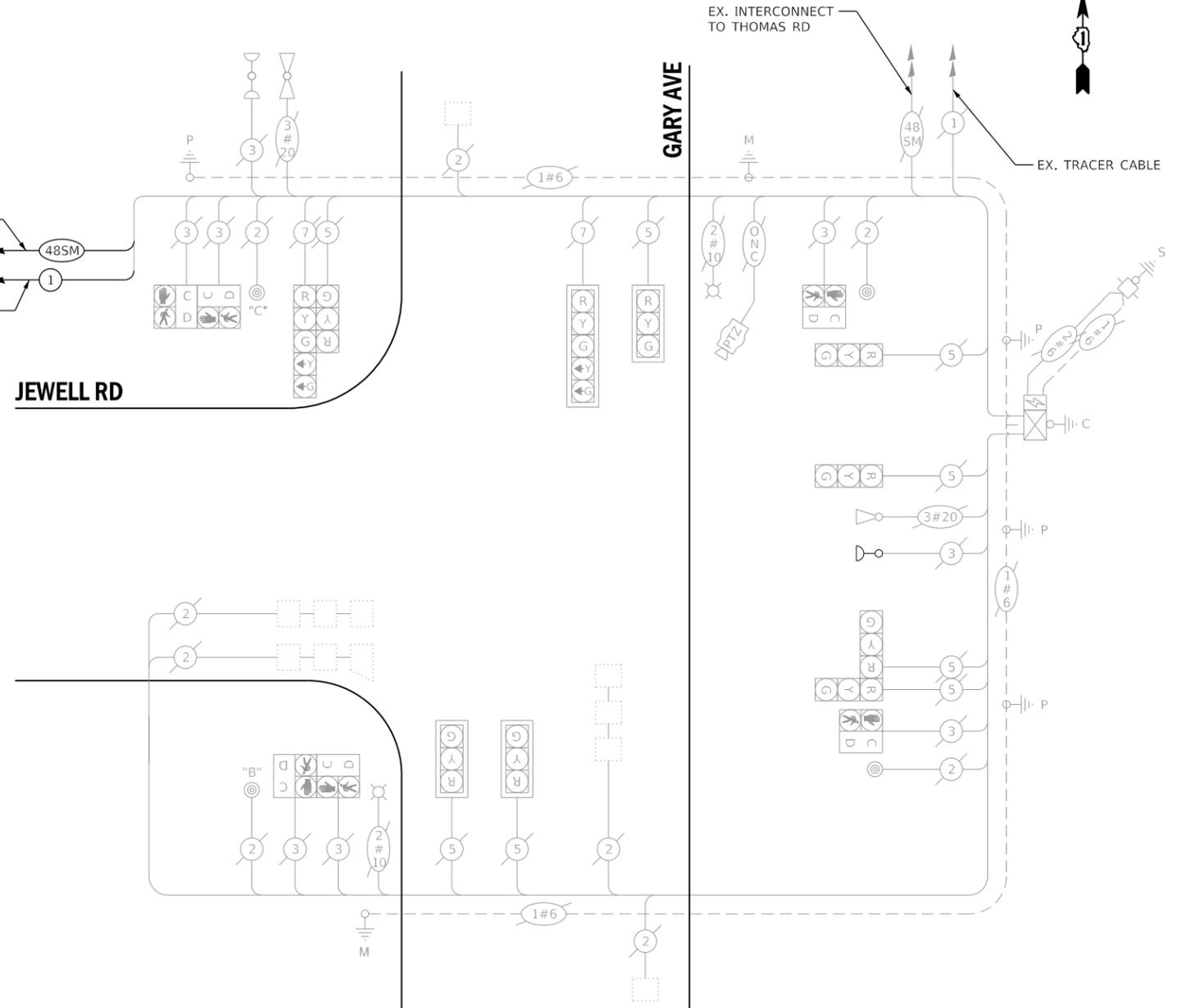
QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

PROP. INTERCONNECT TO PLEASANT HILL RD  
PROP. TRACER CABLE

**JEWELL RD**



**GARY AVE**



**CABLE PLAN  
(NOT TO SCALE)**

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



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

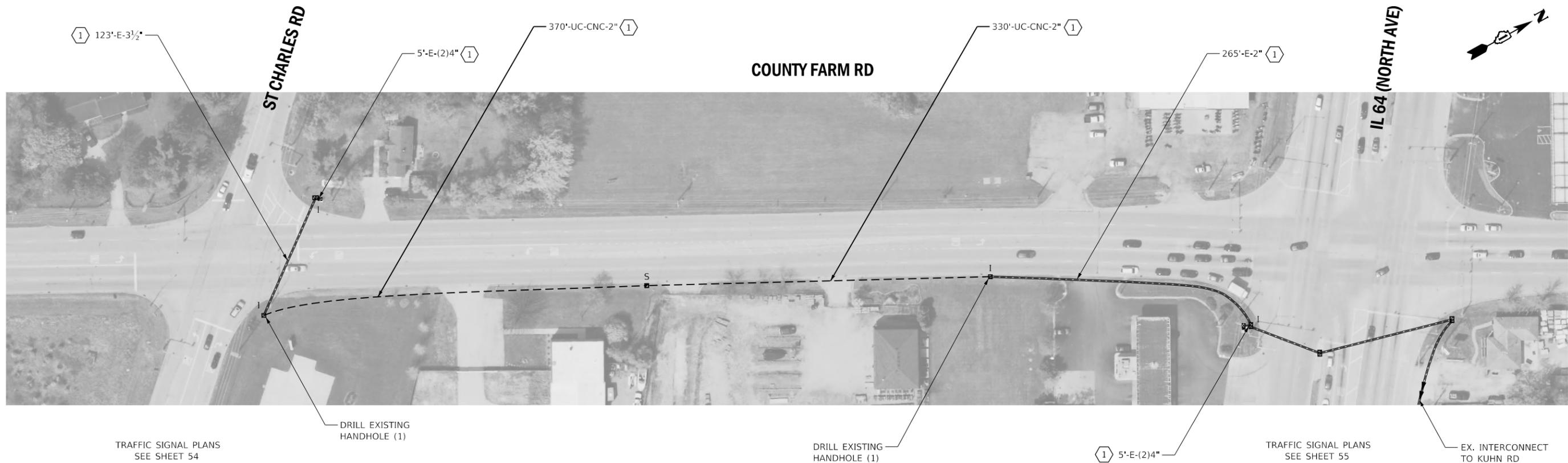
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 3  
JEWELL RD AND GARY AVE**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	57
CONTRACT NO. 61H96				

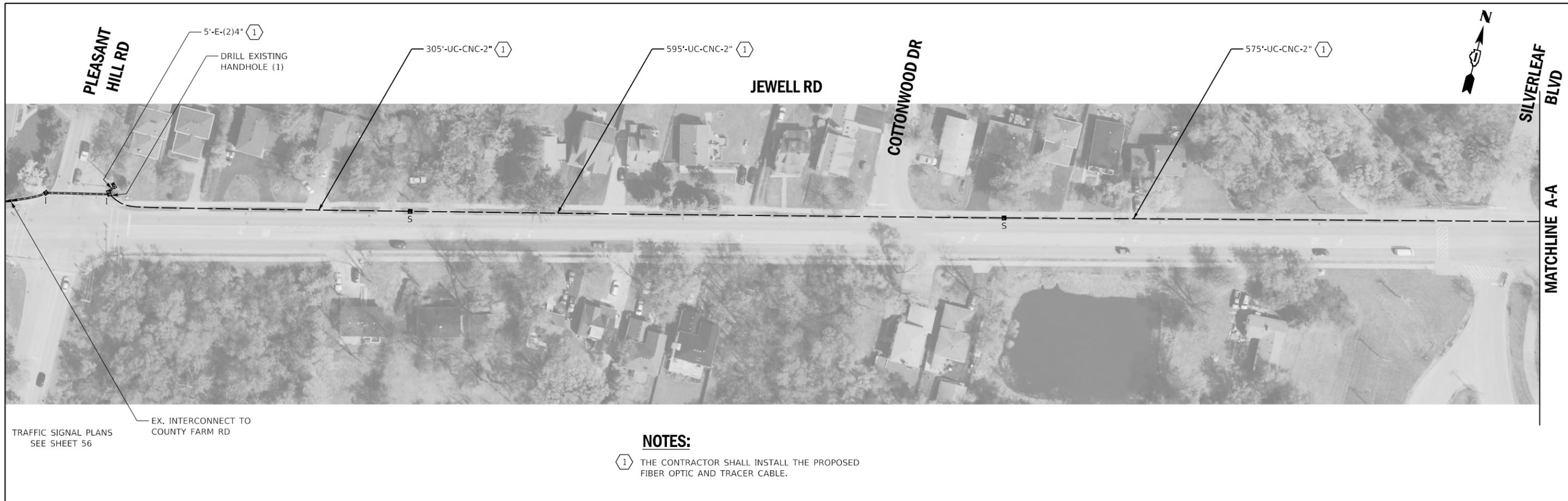
**DUDOT**



**NOTES:**

1 THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.

	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED INTERCONNECT PLAN - AREA 3</b> <b>LOCATION A - COUNTY FARM RD</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 100,0000' / in.	CHECKED - ZH	REVISED -				VAR.	19-DCCSS-04-TL	DUPAGE	293	58	
PLOT DATE = 6/13/2022	DATE -	REVISED -	SCALE: 1"=50'		SHEET 1 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 61H96		ILLINOIS	FED. AID PROJECT	
FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT Central\CADD_Sheets\sh-A3-County Farm.dgn												



TRAFFIC SIGNAL PLANS  
SEE SHEET 56

EX. INTERCONNECT TO  
COUNTY FARM RD

**NOTES:**

(1) THE CONTRACTOR SHALL INSTALL THE PROPOSED  
FIBER OPTIC AND TRACER CABLE.



THIS SYSTEM HANDHOLE SHALL BE PLACED IN THE  
VICINITY OF THE SCHOOL ZONE MARKINGS FOR  
FUTURE USE, AS DIRECTED BY THE ENGINEER



USER NAME	= rgeorgescu
PLOT SCALE	= 100,0000 ' / in.
PLOT DATE	= 6/13/2022

DESIGNED	- DW
DRAWN	- RG
CHECKED	- ZH
DATE	-

REVISED	-

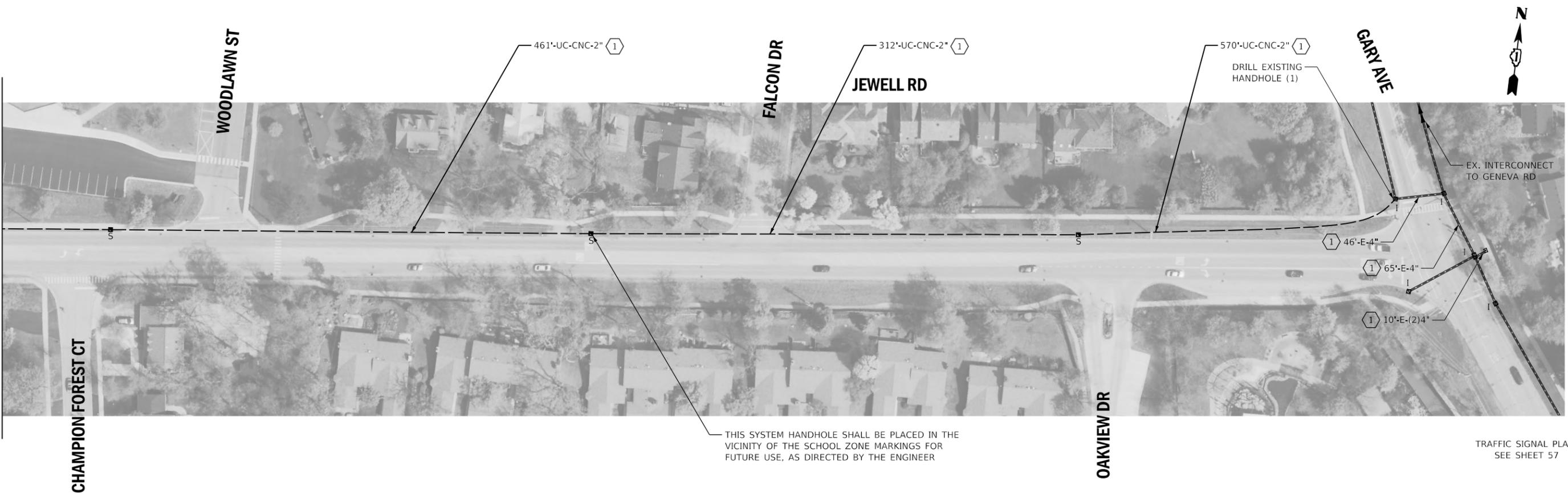
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN - AREA 3  
LOCATION B - JEWELL RD

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	59
CONTRACT NO.			61H96	
ILLINOIS FED. AID PROJECT				

MATCHLINE B-B SEE SHEET 59



TRAFFIC SIGNAL PLANS  
SEE SHEET 57

**NOTES:**

- (1) THE CONTRACTOR SHALL INSTALL THE PROPOSED FIBER OPTIC AND TRACER CABLE.

	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED INTERCONNECT PLAN - AREA 3 LOCATION B - JEWELL RD</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000 ' / in.	DRAWN - RG	REVISED -		VAR.	19-DCCSS-04-TL	DUPAGE	293	60		
PLOT DATE = 6/13/2022	CHECKED - ZH	REVISED -	SCALE: 1"=50'		SHEET 3 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 61H96			
	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

### AREA 3 FIBER NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIBER SPLICES AND TERMINATIONS FOR ALL PROPOSED FIBER OPTIC CABLES AS SPECIFIED IN THE SPECIAL PROVISIONS FOR FIBER OPTIC CABLES.

TERMINATIONS FOR EXISTING FIBER OPTIC CABLES AND SPLICES BETWEEN EXISTING FIBER OPTIC CABLES SHALL BE PAID FOR SEPARATELY. FOR BIDDING PURPOSES AN ESTIMATED QUANTITY OF SPLICES AND TERMINATIONS HAS BEEN INCLUDED IN THE QUANTITIES.

THE ACTUAL NUMBER OF TERMINATIONS AND SPLICES AT EACH LOCATION SHALL BE BASED ON THE NETWORK CONFIGURATION DOCUMENT SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE TRAFFIC ENGINEER. SEE THE SPECIAL PROVISION LAYER III SWITCH. SPLICES AND TERMINATIONS SHALL BE REALLOCATED BY THE ENGINEER, AS NEEDED, BETWEEN THE INTERCONNECT AREAS.

AREA 3 FIBER SPLICE AND TERMINATION SCHEDULE:

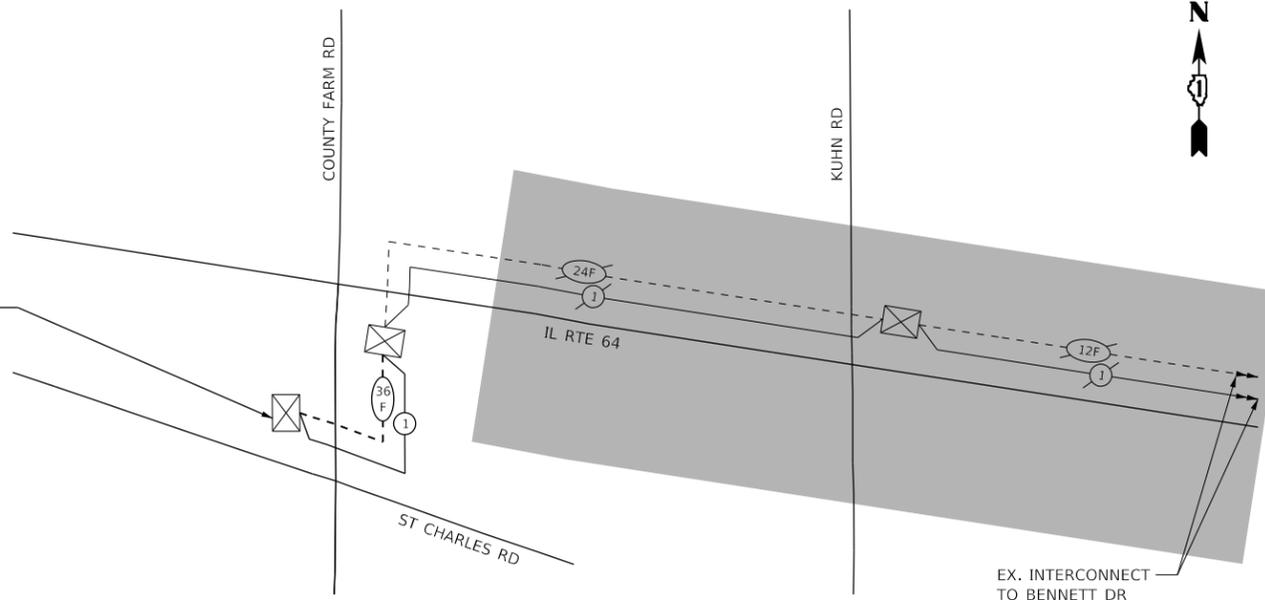
ITEM DESCRIPTION	INCLUDED IN FIBER OPTIC CABLE PAY ITEM	TO PAID FOR SEPARATELY
TERMINATE FIBER IN CABINET	36	0
SPLICE FIBER IN CABINET	24	0

THE CONTROLLER AT COUNTY FARM RD AND ST CHARLES RD SHALL BECOME PART OF THE EXISTING IDOT MULTIMODE NETWORK.

### SCHEDULE OF QUANTITIES

QUANTITY	UNIT	PAY ITEM DESCRIPTION
5	CU YD	NON-SPECIAL WASTE DISPOSAL
100	GALLON	SPECIAL WASTE GROUNDWATER DISPOSAL
1	EACH	SOIL DISPOSAL ANALYSIS
0.17	L SUM	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN
0.17	L SUM	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT
0.5	CAL DA	REGULATED SUBSTANCES MONITORING
4871	FOOT	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.
9	EACH	HANDHOLE
5550	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
4	EACH	DRILL EXISTING HANDHOLE
1175	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F
4535	FOOT	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE

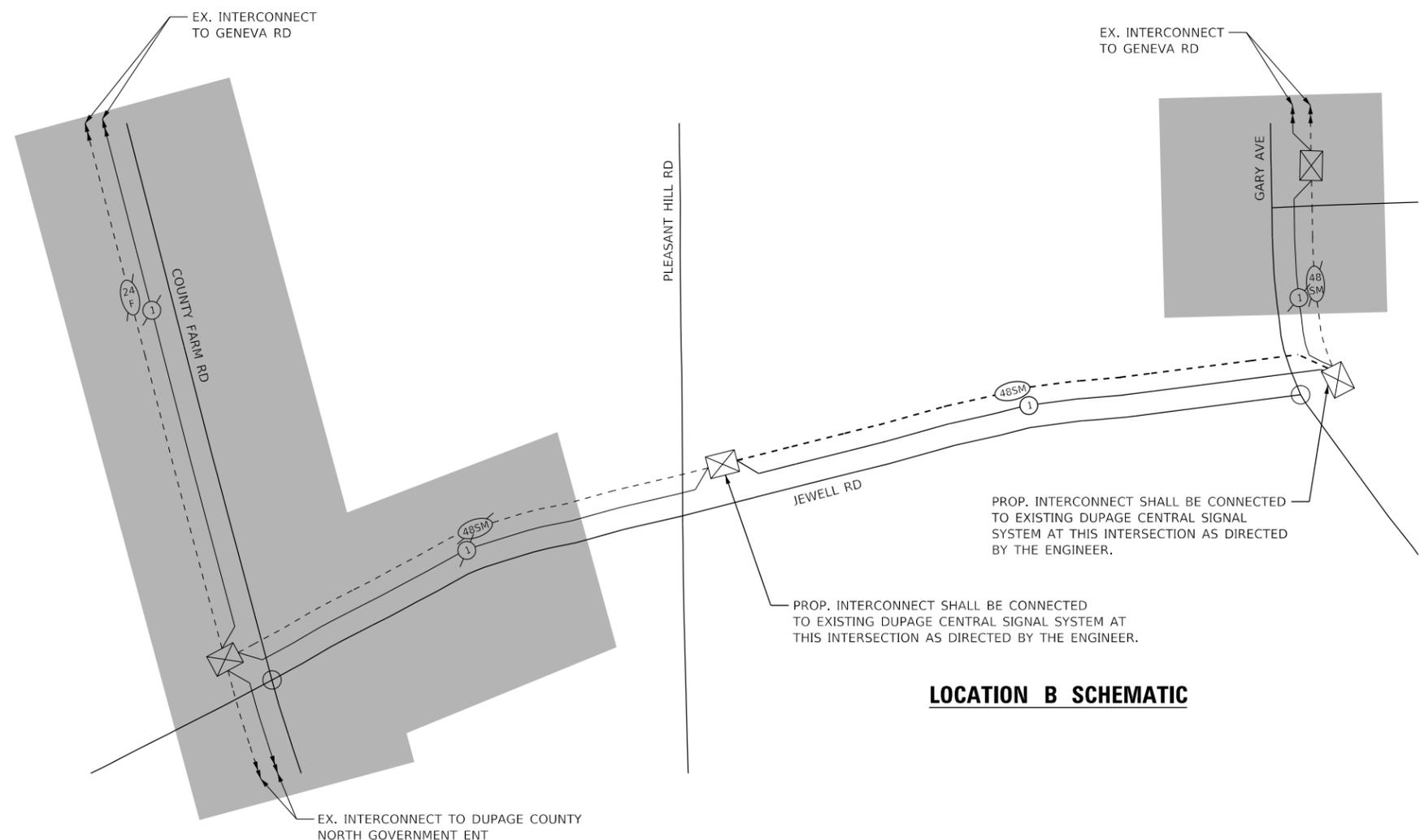
### LOCATION A SCHEMATIC



### LEGEND

EXISTING	PROPOSED	
		ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM12F
		FIBER OPTIC CABLE, NO. 62.5/125 MM12F SM24F
		FIBER OPTIC CABLE, 24 SINGLE MODE
		FIBER OPTIC CABLE, 48 SINGLE MODE
		FIBER OPTIC CABLE, 36 SINGLE MODE
		PAN, TILT, ZOOM (PTZ) CAMERA
		OUTSIDE PROJECT LIMITS
		LAYER III SWITCH

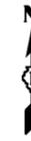
### LOCATION B SCHEMATIC



FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT CentralCADD\_Sheets\sh-4nt-schematic-Area 3.dgn



**AREA 4**



**LEGEND**

-  PROPOSED INTERCONNECT AREA - SEE INTERCONNECT PLANS
-  PROPOSED SIGNAL IMPROVEMENT CORRIDOR
-  PROPOSED SIGNAL IMPROVEMENT LOCATION

**INTERSECTION PLANS**

#	LOCATION	SHEETS
83	FINLEY RD AND EISENHOWER LN	66 - 67
82	FINLEY RD AND 22ND ST	68 - 69
84	FINLEY RD AND OAK CREEK DR	70 - 71
91	MAIN ST AND 22ND ST	72 - 74
90	MAIN ST AND 16TH ST	75 - 76
97	MAIN ST AND MORRIS AVE	77
92	MAIN ST AND EDWARD AVE	78 - 79
93	MAIN AND GE HIGH SCHOOL ENT	80
99	MAIN ST AND WILSON AVE	81 - 82
95	MAIN ST AND MADISON ST	83 - 84
94	MAIN ST AND HICKORY ST	85 - 86
96	MAIN ST AND MAPLE ST	87 - 88
98	MAIN ST AND PARKSIDE AVE	89 - 90
30	HIGHLAND AVE AND 39TH ST	91 - 92
31	HIGHLAND AVE AND GOOD SAMARITAN HOSPITAL	93
29	31ST ST AND HIGHLAND AVE	94 - 96
32	HIGHLAND AVE AND I-88 EB RAMP (SOUTH)	97 - 98
33	HIGHLAND AVE AND IL RTE 56	99 - 100
89	HIGHLAND AVE AND YORKTOWN SOUTH	101 - 102
88	HIGHLAND AVE AND YORKTOWN CENTER	103
87	HIGHLAND AVE AND MAJESTIC DR	104 - 105
81	22ND ST AND HIGHLAND AVE	106 - 108
27	FAIRVIEW AVE AND 39TH ST	109 - 110
49	MEYERS RD AND 35TH ST	111
16	31ST ST AND MEYERS RD	112 - 114
48	MEYERS RD AND 22ND ST	115 - 116
50	MEYERS RD AND CORPORATE	117
47	MEYERS RD AND 16TH ST	118



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
PLOT SCALE = 4000.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/13/2022	CHECKED - ZH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
AREA 4 LOCATION MAP - 1 OF 2

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	62
			CONTRACT NO. 61H96	
		ILLINOIS	FED. AID PROJECT	

**INTERSECTION PLANS (CONT.)**

#	LOCATION	SHEETS
46	MEYERS RD AND 14TH ST	119 - 120
105	WESTMORE-MEYERS RD AND HIGHRIDGE RD	121
111	WESTMORE-MEYERS RD AND WILSON RD	122 - 123
106	WESTMORE-MEYERS RD AND JACKSON ST	124
107	WESTMORE-MEYERS RD AND MADISON ST	125 - 126
110	WESTMORE-MEYERS RD AND WASHINGTON BLVD	127
108	WESTMORE-MEYERS RD AND MAPLE ST	128 - 129
109	WESTMORE AVE AND ST CHARLES RD	130 - 132
52	MIDWEST RD AND 35TH ST (SOUTH)	133 - 134
51	MIDWEST RD AND 35TH ST (NORTH)	135 - 136
53	MIDWEST RD AND I-88/BAYBROOK	137 - 138
15	31ST AND HIGHLAND PKWY	139
18	31ST ST AND MIDWEST U ENT/AVE LA TOURS	140
17	31ST ST AND MIDWEST RD	141 - 143
14	31ST ST AND CONCORD DR	144
19	31ST ST AND REGENT DR	145
80	22ND ST AND GRACE ST	146 - 147
79	22ND ST AND CONVENTION WAY	148
62	ST CHARLES RD AND SWIFT RD	149 - 150
100	ST CHARLES RD AND CRESCENT BLVD	151 - 152
101	ST CHARLES RD AND ELIZABETH ST	153 - 155
104	ST CHARLES RD AND PARK AVE	156
103	ST CHARLES RD AND MAIN ST	157 - 158
102	ST CHARLES RD AND GRACE ST	159 - 161

**INTERCONNECT PLANS**

	LOCATION	SHEETS
(A)	FINLEY RD	162 - 163
(B)	MAIN ST	164 - 169
(C)	HIGHLAND AVE	170 - 175
(D)	FAIRVIEW AVE/MEYERS RD	176 - 178
(E)	MEYERS RD	179 - 180
(F)	WESTMORE-MEYERS RD	181 - 183
(G)	MIDWEST RD	184 - 186
(H)	31ST ST	187 - 191
(I)	22ND ST	192 - 195
(J)	WILSON AVE	196
(K)	ST CHARLES RD	197 - 204
(L)	MUNICIPAL COMPLEX	205



USER NAME = rgeorgescu	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 4000.0000' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/13/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
AREA 4 LOCATION MAP - 2 OF 2

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	63
CONTRACT NO.			61H96	
ILLINOIS		FED. AID PROJECT		

**AREA 4 SIGNAL IMPROVEMENTS (DUDOT)**

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL	HIGHLAND AVE AND					FAIRVIEW AVE AND 39TH ST	MEYERS RD AND					MIDWEST RD AND			31ST ST AND						
				39TH ST	GOOD SAMARITAN HOSPITAL DR	31ST ST	I-88 EB RAMP (SOUTH)	IL RTE 56		35TH ST	MEYERS RD	22ND ST	CORPORATE CENTER ENT	16TH ST	14TH ST	35TH ST/WILLOW CREST DR	35TH ST (NORTH)	I-88/BAYBROOK LN	HIGHLAND PKWY	MIDWESTERN PKWY/AVENUE LA TOURS	31ST ST	CONCORD DR/TRINITY LN	REGENT DR/SAINT PASCHAL DR	ST CHARLES RD AND SWIFT RD
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1					1																
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	56	5	6	4					8				4	6	3	7				5	5	3
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	1071	183	33	58	229																	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	8792	750	750	750	229				750	117	130	31	750	750	750	750	35			750	750	750
88500100	INDUCTIVE LOOP DETECTOR	EACH	38					15	7	8											8			
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	7			1	1	1	1	1												1	1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7582	326	26	3710	418	774				722	220	22	12	184	194		30			102	31	811
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	4			3																		1
X0322765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	2				1															1		
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	851	163	13	38	209					97	110	11	6	92	97		15					
X0326104	RELOCATE RADAR DETECTOR SYSTEM	EACH	1																			1		
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	2302	190		211	123		271		198	369			156	172	68	230				211		103
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1																					
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	4			1						1										1		1
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	12	1		1	1		1		1	1			1	1	1	1				1		1
X1400216	LAYER II (DATALINK) SWITCH	EACH	16	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1		1		
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	3	1	1																			
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	15	1	1		1	1	1	1	1		1	1	1	1	1	1	1			1		
X1400460	LAYER III (NETWORK) SWITCH	EACH	4			1						1										1		1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	10	1	1	1	1					1	1	1	1	1	1							
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	10								1	1	1	1	1	1	1	1	1				1	
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	6			1	1		1	1												1	1	
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	12		1				1	1		1	1	1	1	1	1		1			1		1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	14	1	1						1	1	1	1	1	1	1	1	1	1			1	1
XX005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	3			1	1															1		
XX007622	ELECTRIC METER	EACH	5						1	1														1
XX008396	CAMERA MOUNTING ASSEMBLY, SPECIAL	EACH	2	1								1												
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	3			1						1												1
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	1																					
	POE EXTENDER	EACH	2						1			1												

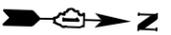
**AREA 4 SIGNAL IMPROVEMENTS (LOMBARD)**

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL	FINLEY RD AND			MAIN ST AND							HIGHLAND AVE AND			WESTMORE-MEYERS AND					22ND ST AND		ST CHARLES RD AND													
				EISENHOWER LN	22ND ST	OAK CREEK DR/WOODMOOR DR	22ND ST	16TH ST	MORRIS AVE/LOMBARD PINES SOUTH ENT	EDWARD AVE	GLENBARD EAST HIGH SCHOOL	WILSON AVE	MADISON ST	HICKORY ST	MAPLE ST	PARKSIDE AVE	YORKTOWN ENT (SOUTH)	YORKTOWN ENT (CENTER)	MAJESTIC DR	22ND ST	HIGHRIDGE RD	WILSON AVE	LOMBARD CIR/JACKSON ST	MADISON ST	WASHINGTON BLVD	MAPLE ST	ST CHARLES RD	GRACE ST/NORTHLAKE RD	CONVENTION WAY	CRESCENT BLVD	ELIZABETH ST	PARK AVE	ST CHARLES RD	GRACE ST			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2														1							1													
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	90	4	9		7											4	3	5	4	4	4	4	4	8			5	4	4	6					
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	13500	750	750		750										750	750	750	750	750	750	750	750	750	750		750	750	750	750						
88500100	INDUCTIVE LOOP DETECTOR	EACH	56	8	9		11										13									7											
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	18	1	1		1	1					1					1	1		1	1	1	1	1						1	1					
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9069						15	12	94	16	436	296	340	480	590	446	723		272	556	617	398	382	549	386	21	396	458	1050	73	188	275			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	30	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
89502380	REMOVE EXISTING HANDHOLE	EACH	7													2										3			1	1							
X0322765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	3				1																							1	1						
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	4193	68	257	178	266	195		233		84	183	156	84	147	346		393	61		164		67		168	94	327		72	105		155	390			
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	2				1																											1			
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	24	1	1	1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2			
X1400216	LAYER II (DATALINK) SWITCH	EACH	29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	7			1			1	1	1																	1		1					1		
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
X1400460	LAYER III (NETWORK) SWITCH	EACH	2				1																												1		
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	5											1		1	1	1																	1		
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	19	1	1		1	1				1	1	1		1				1	1	1	1	1	1	1	1	1					1	1			
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	11			1			1	1	1																	1	1	1						1	
XX005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	19	1	1		1	1				1	1	1						1	1	1	1	1	1	1	1	1					1	1			
XX007029	RELOCATE EXISTING TRANSCEIVER	EACH	1																																1		
XX007536	PAINT TRAFFIC SIGNAL EQUIPMENT	EACH	3			1																				1											
XX007952	TERMINAL SERVER	EACH	2																	1																	
XX008396	CAMERA MOUNTING ASSEMBLY, SPECIAL	EACH	3			1																															
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	15									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
	POE EXTENDER	EACH	6		1		1																			1										1	

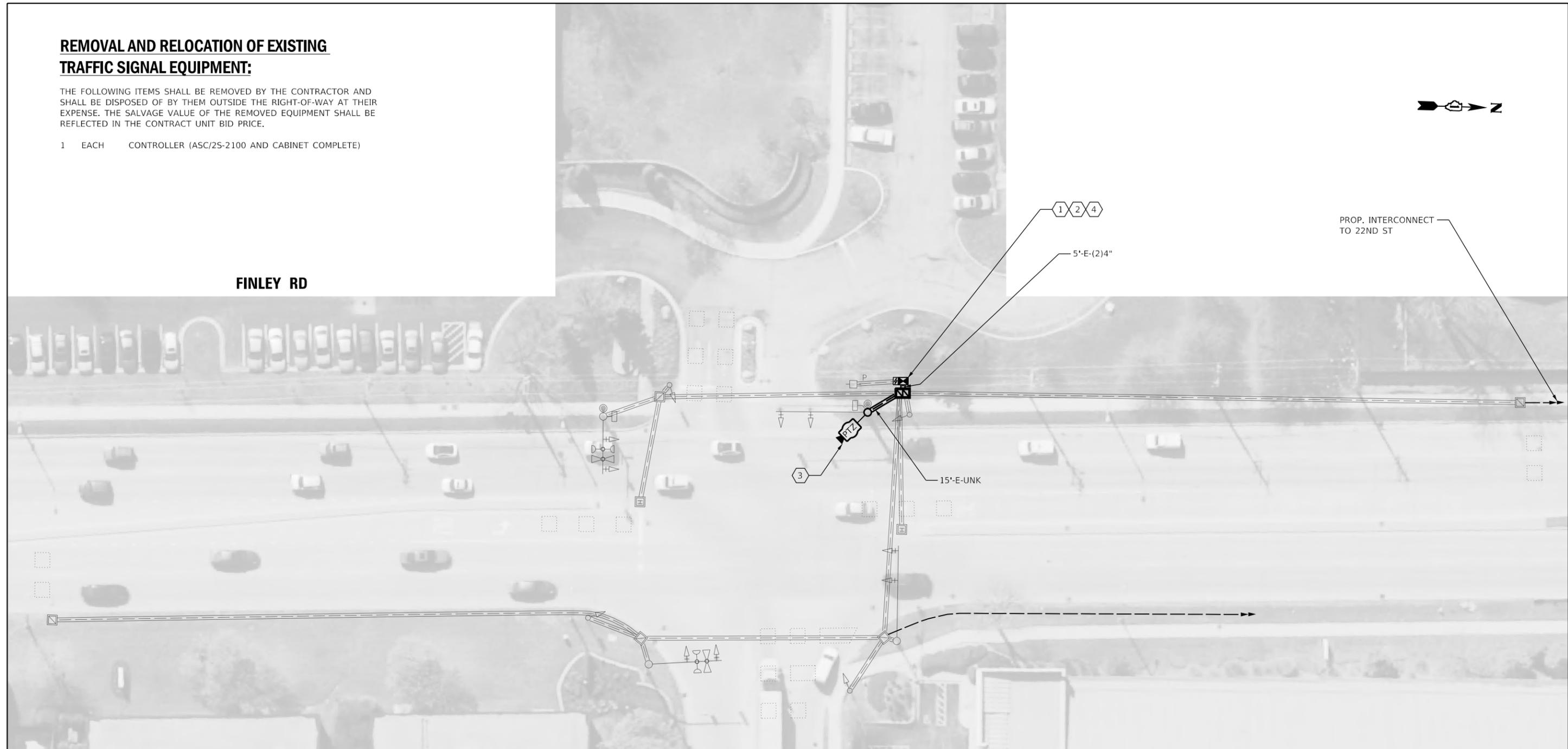
**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CONTROLLER (ASC/2S-2100 AND CABINET COMPLETE)



**FINLEY RD**



**FINLEY RD**

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.

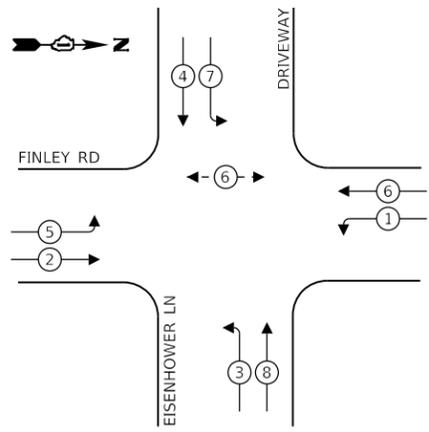
**EISENHOWER LN**

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

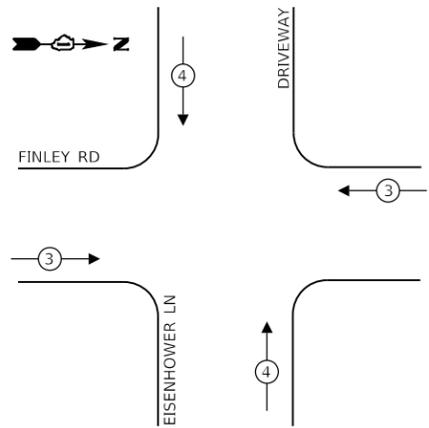
**LOMBARD TS 27**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 FINLEY RD AND EISENHOWER LN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -		VAR.	19-DCCSS-04-TL	DUPAGE	293	66			
PLOT DATE = 6/12/2022	CHECKED - ZH	REVISED -	SCALE: 1"=20'    SHEET 1 OF 96 SHEETS    STA.    TO STA.				CONTRACT NO. 61H96					
	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**LEGEND:**

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

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	14	10	10	14
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				397

ENERGY COSTS TO:

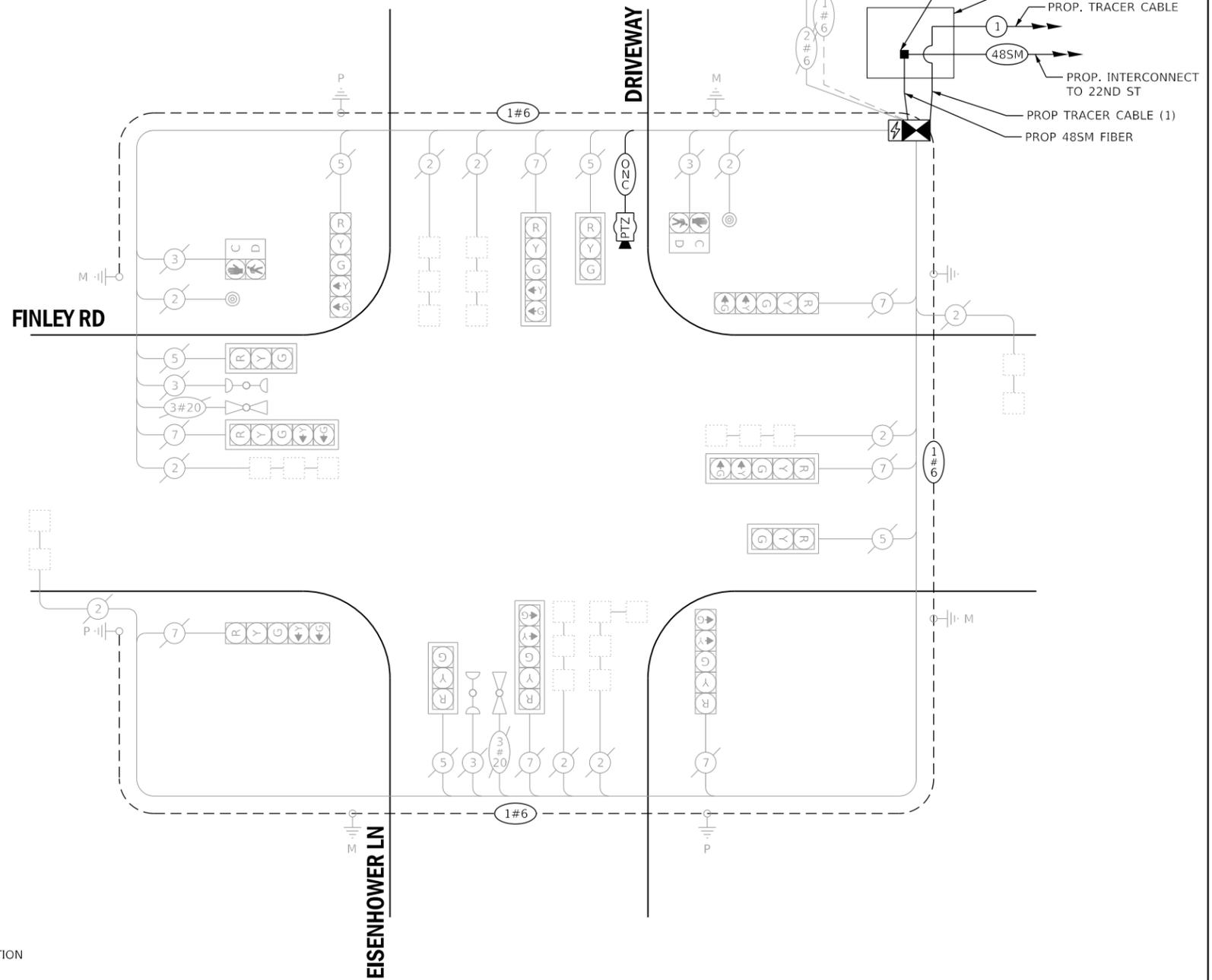
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
68	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM



**CABLE PLAN  
(NOT TO SCALE)**

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD  
TS 27**

	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -	<p style="text-align: center;"><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p>	<p style="text-align: center;"><b>CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 FINLEY RD AND EISENHOWER LN</b></p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -			VAR.	19-DCCSS-04-TL	DUPAGE	293	67
PLOT DATE = 6/12/2022	DATE -	REVISED -		SCALE:	SHEET 2	OF 96	SHEETS	STA.	TO STA.	CONTRACT NO. 61H96

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

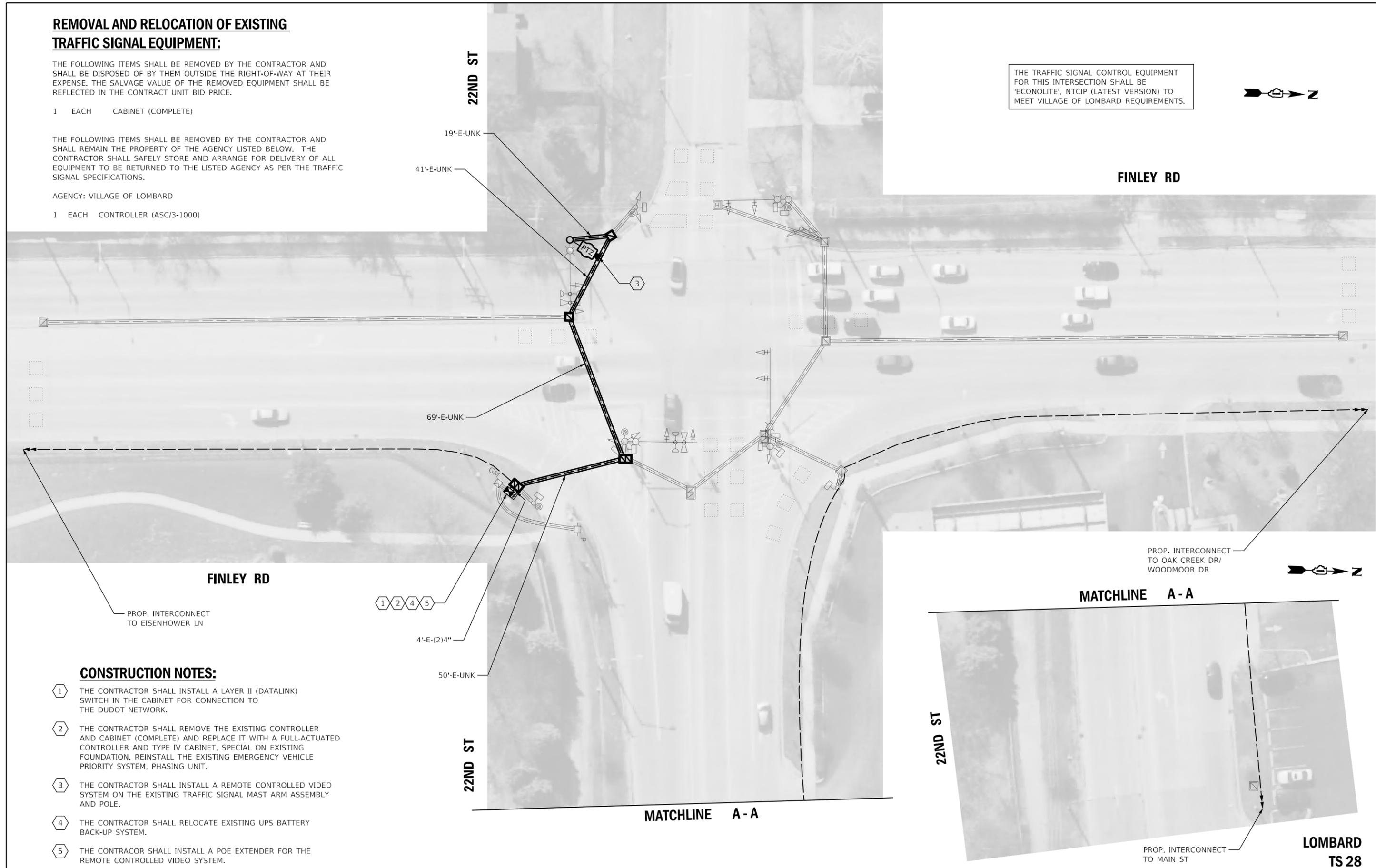
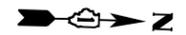
- 1 EACH CABINET (COMPLETE)

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

AGENCY: VILLAGE OF LOMBARD

- 1 EACH CONTROLLER (ASC/3-1000)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.



**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

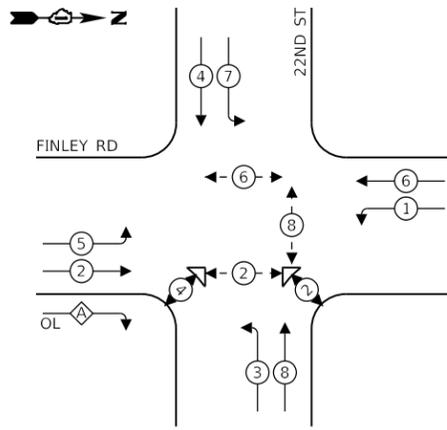
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
FINLEY RD AND 22ND ST

SCALE: 1"=20' SHEET 3 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	68
CONTRACT NO. 61H96				
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

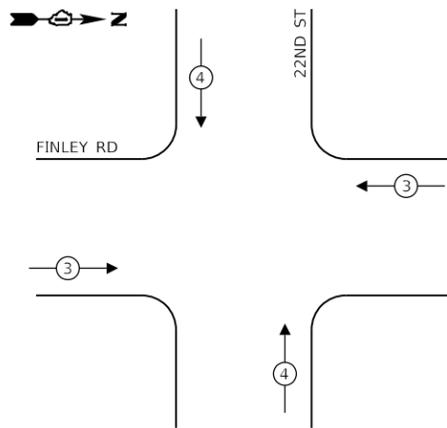
- ← ⊛ → PROTECTED PHASE
- ← ⊛ - PEDESTRIAN PHASE
- ← ⊛ ⊛ → PEDESTRIAN PHASE
- ← ⊛ OL → OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
9	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
9	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
257	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	POE EXTENDER

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

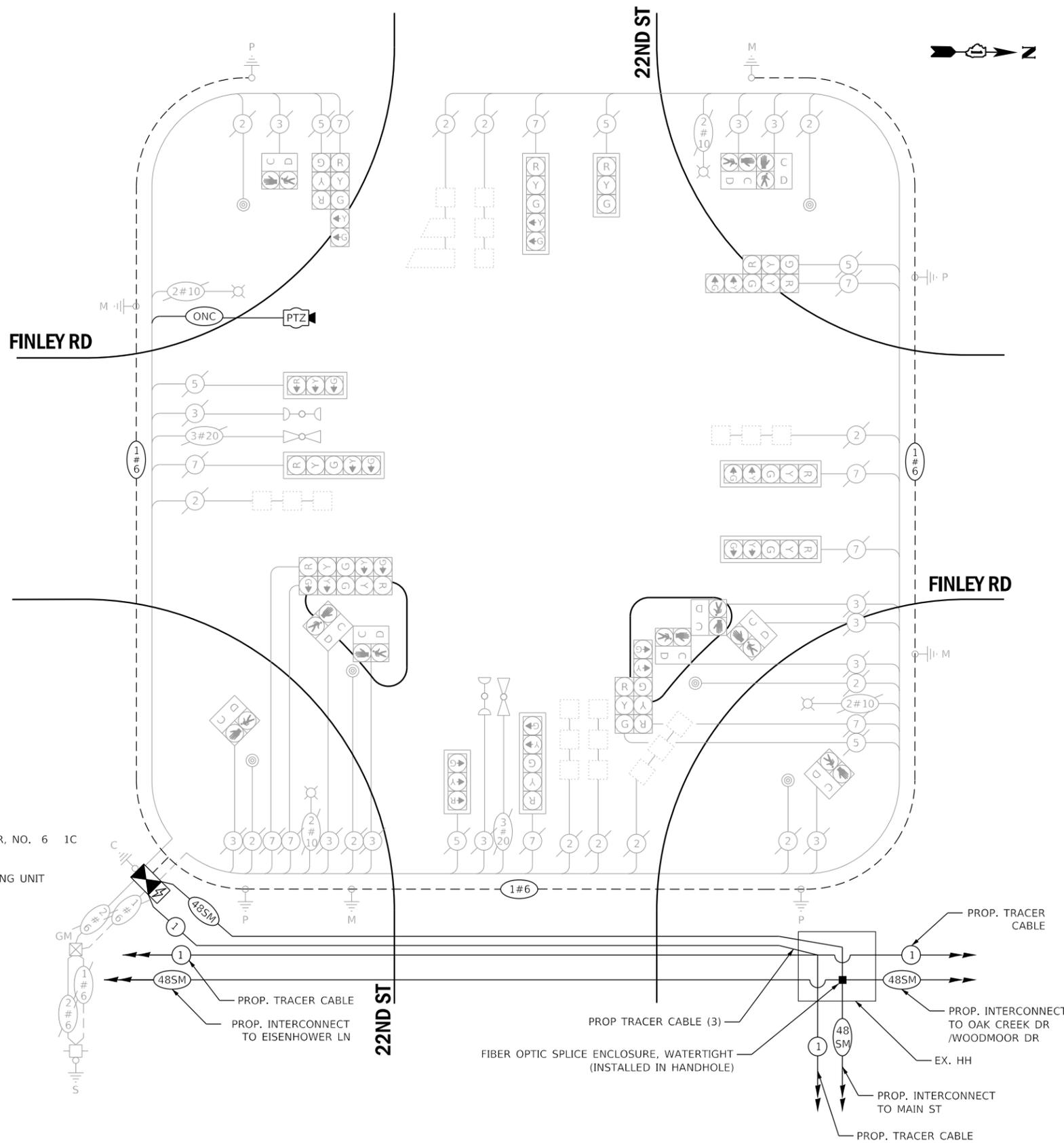
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	20	10	10	20
PED. SIGNAL	10	20	100	200
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1111

ENERGY COSTS TO:

**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:



**CABLE PLAN**  
(NOT TO SCALE)

**LOMBARD TS 28**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 FINLEY RD AND 22ND ST**

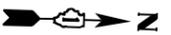
SCALE: SHEET 4 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	69
			CONTRACT NO. 61H96	
		ILLINOIS	FED. AID PROJECT	



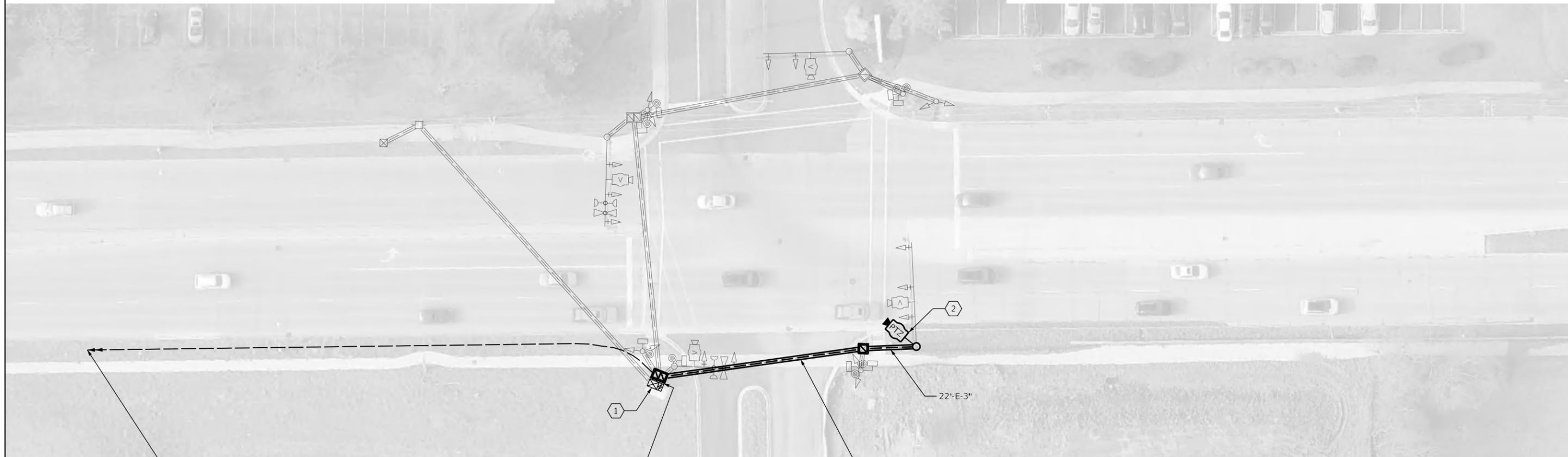
USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



FINLEY RD

OAK CREEK DR



PROP. INTERCONNECT TO 22ND ST

WOODMOOR DR

FINLEY RD

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.

THE CAMERA MOUNTING ASSEMBLY SHALL BE PAINTED BLACK TO MATCH EXISTING TRAFFIC SIGNAL EQUIPMENT.

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**LOMBARD  
TS 29**



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

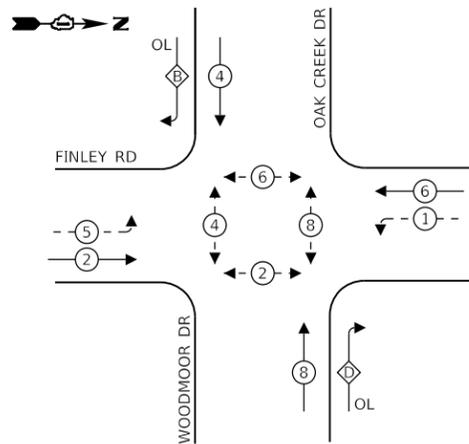
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
FINLEY RD AND OAK CREEK DR/WOODMOOR DR

SCALE: 1"=20' SHEET 5 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	70
			CONTRACT NO.	61H96
		ILLINOIS	FED. AID PROJECT	

**EXISTING CONTROLLER SEQUENCE**



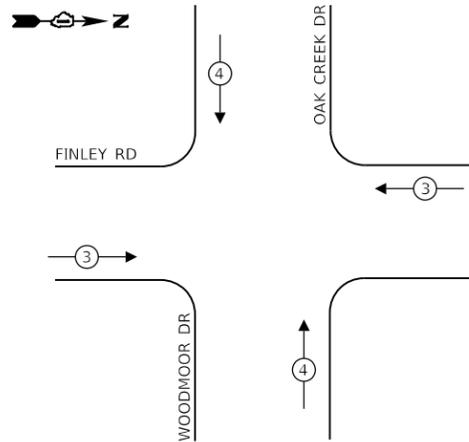
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99
(YELLOW)	18	20	5	18
(GREEN)	18	12	45	98
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				741

ENERGY COSTS TO:

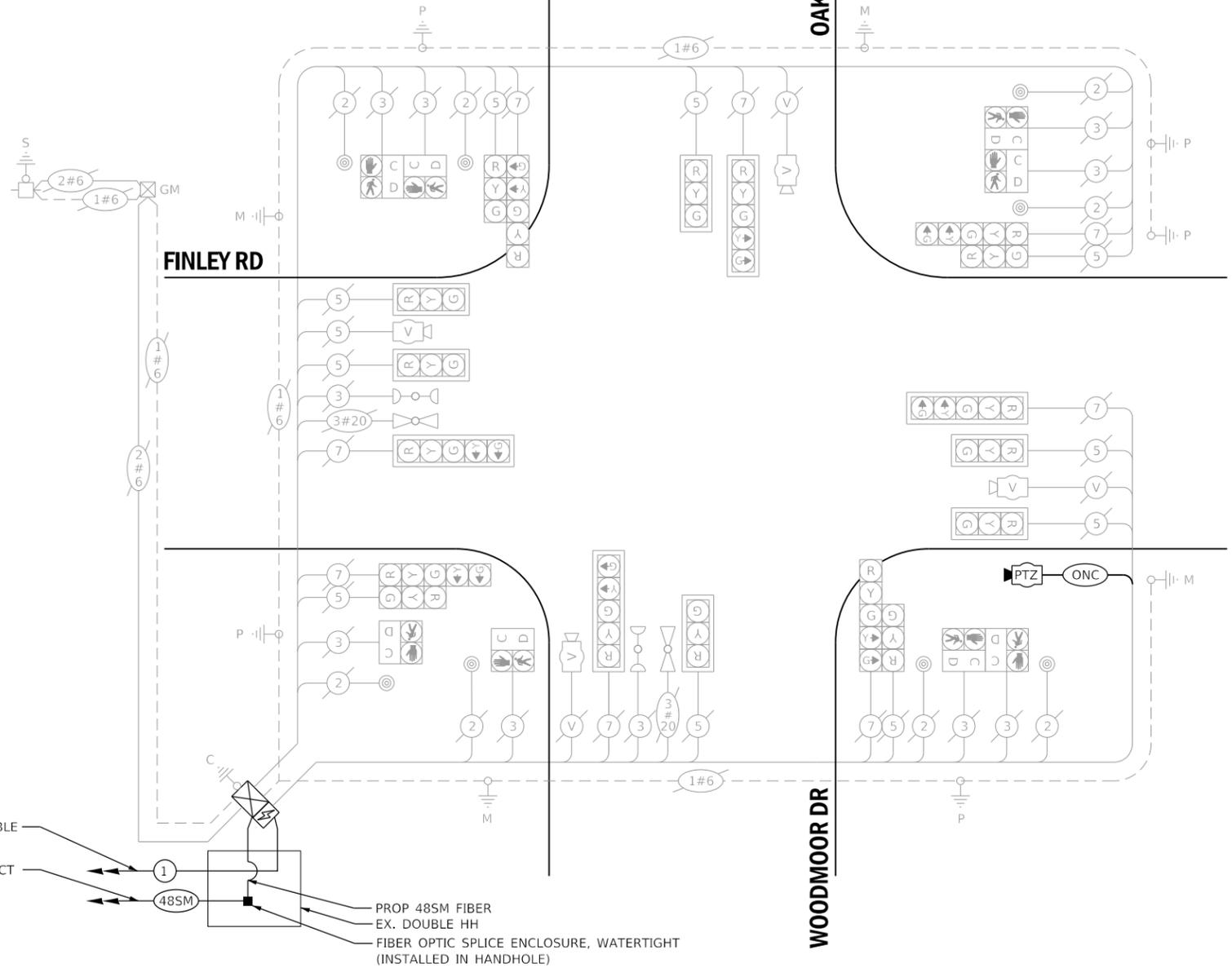
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
178	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	PAINT TRAFFIC SIGNAL EQUIPMENT
1	EACH	CAMERA MOUNTING ASSEMBLY, SPECIAL



**CABLE PLAN**  
(NOT TO SCALE)

THE CAMERA MOUNTING ASSEMBLY SHALL BE PAINTED BLACK TO MATCH EXISTING TRAFFIC SIGNAL EQUIPMENT.

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**LOMBARD TS 29**

	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 FINLEY RD AND OAK CREEK DR/WOODMORE DR	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -			VAR.	19-DCCSS-04-TL	DUPAGE	293	71
PLOT DATE = 6/12/2022	DATE -	REVISED -		SCALE:	SHEET 6 OF 96 SHEETS	STA.	TO STA.	CONTRACT NO. 61H96		
								ILLINOIS FED. AID PROJECT		

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

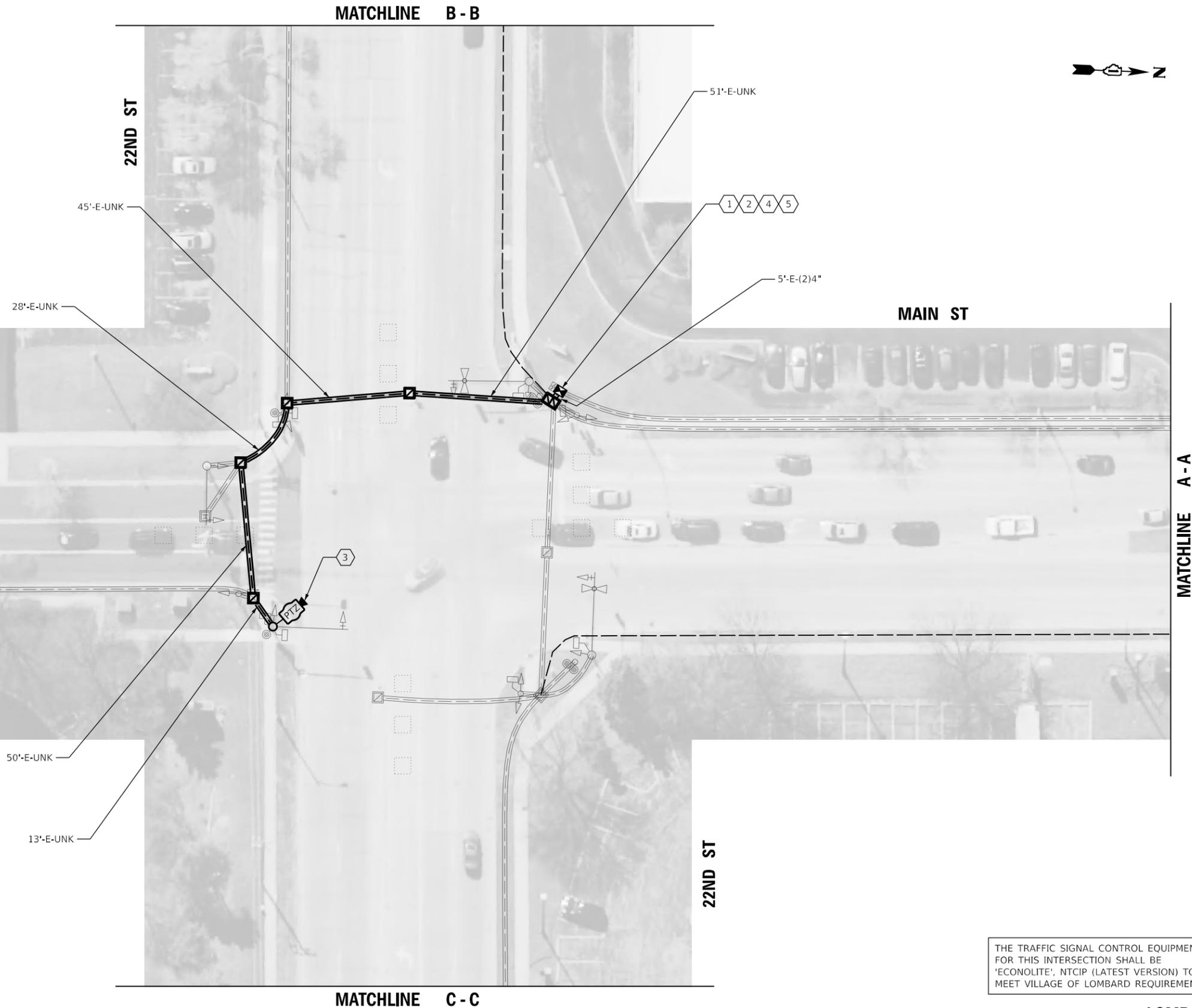
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CABINET (COMPLETE)

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

AGENCY: VILLAGE OF LOMBARD

- 1 EACH CONTROLLER (COBALT)



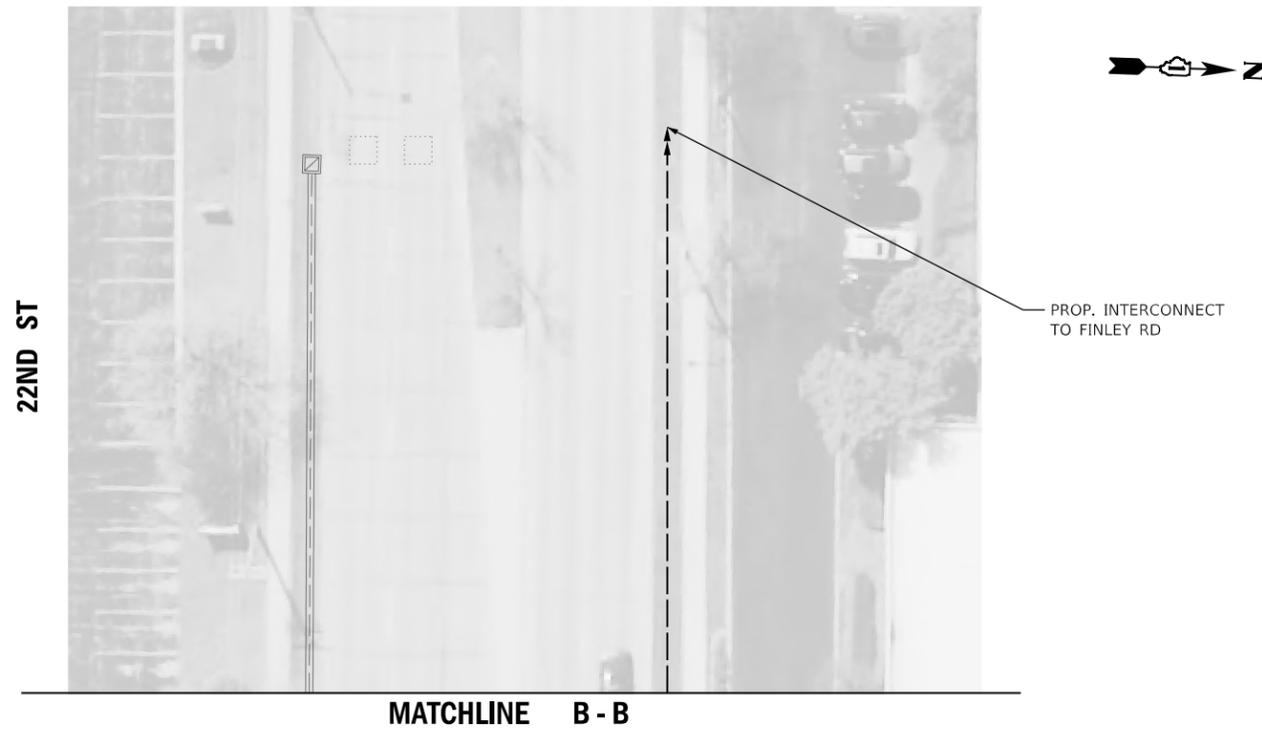
**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD TS 01**

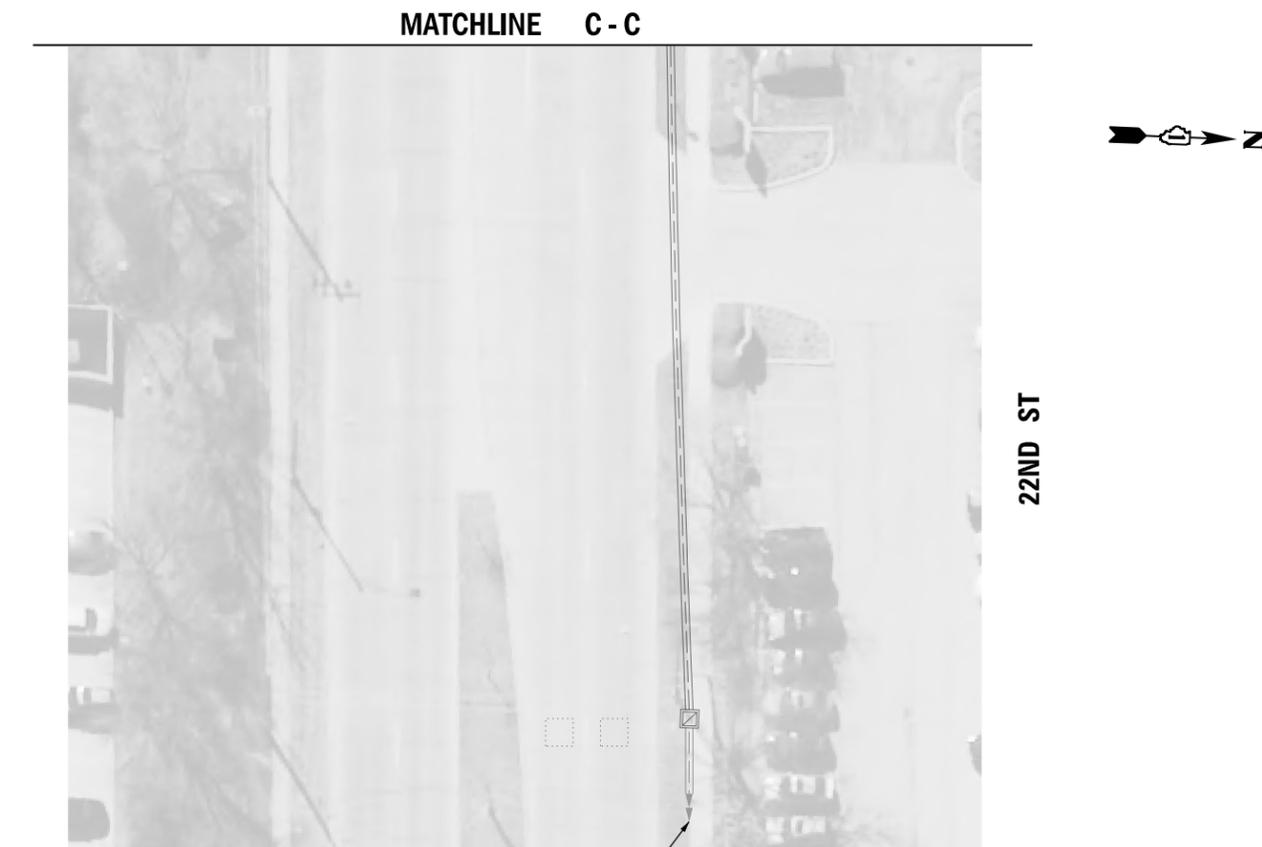
<b>DLZ</b>	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 MAIN ST AND 22ND ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 7	OF 96 SHEETS	STA.	TO STA.	19-DCCSS-04-TL	DUPAGE	293
	PLOT DATE = 6/12/2022	CHECKED - ZH	REVISED -								CONTRACT NO.	61H96
		DATE -	REVISED -						ILLINOIS	FED. AID PROJECT		



22ND ST

PROP. INTERCONNECT TO FINLEY RD

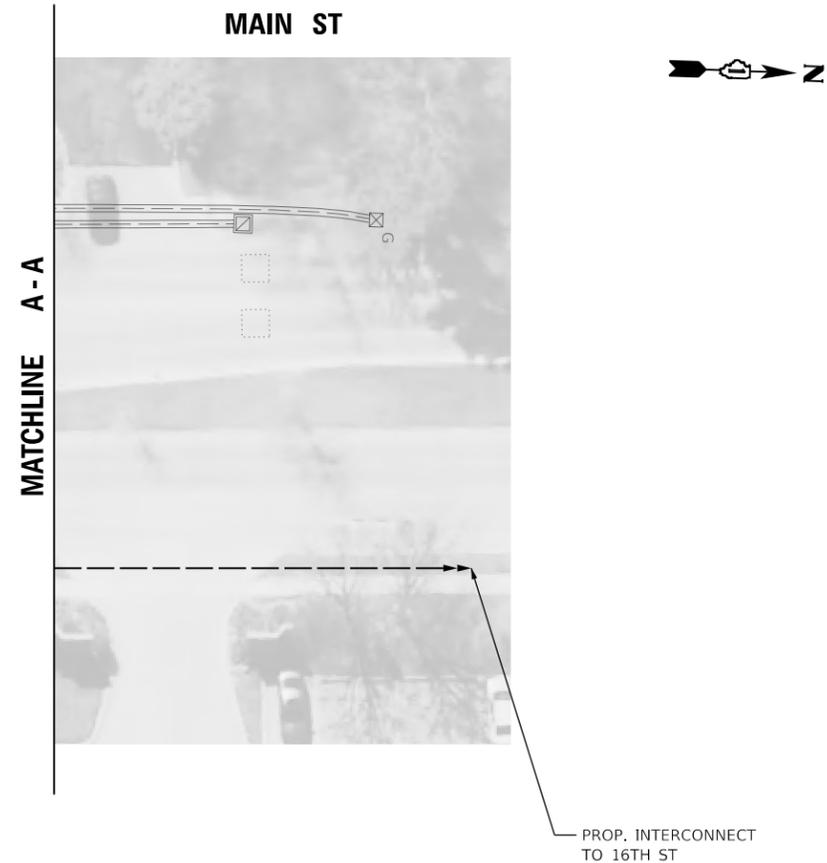
MATCHLINE B - B



MATCHLINE C - C

22ND ST

EX. INTERCONNECT TO HIGHLAND AVE



MAIN ST

MATCHLINE A - A

PROP. INTERCONNECT TO 16TH ST

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD  
TS 01**

	USER NAME = dwwiktorzak	DESIGNED - DW	REVISED -
		DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
	PLOT DATE = 6/12/2022	DATE -	REVISED -

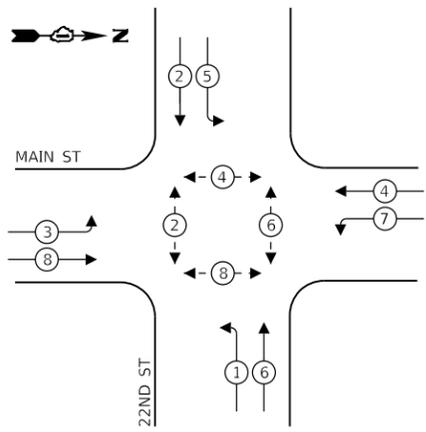
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
MAIN ST AND 22ND ST**

SCALE: SHEET 8 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	73
CONTRACT NO. 61H96				
ILLINOIS		FED. AID PROJECT		

**EXISTING CONTROLLER SEQUENCE**

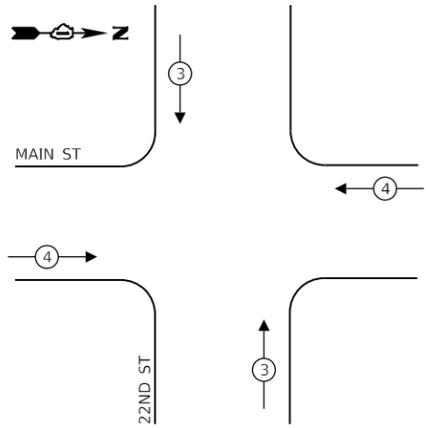


**LEGEND:**

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

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	5	16
(GREEN)	16	12	45	87
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				567

ENERGY COSTS TO:

**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

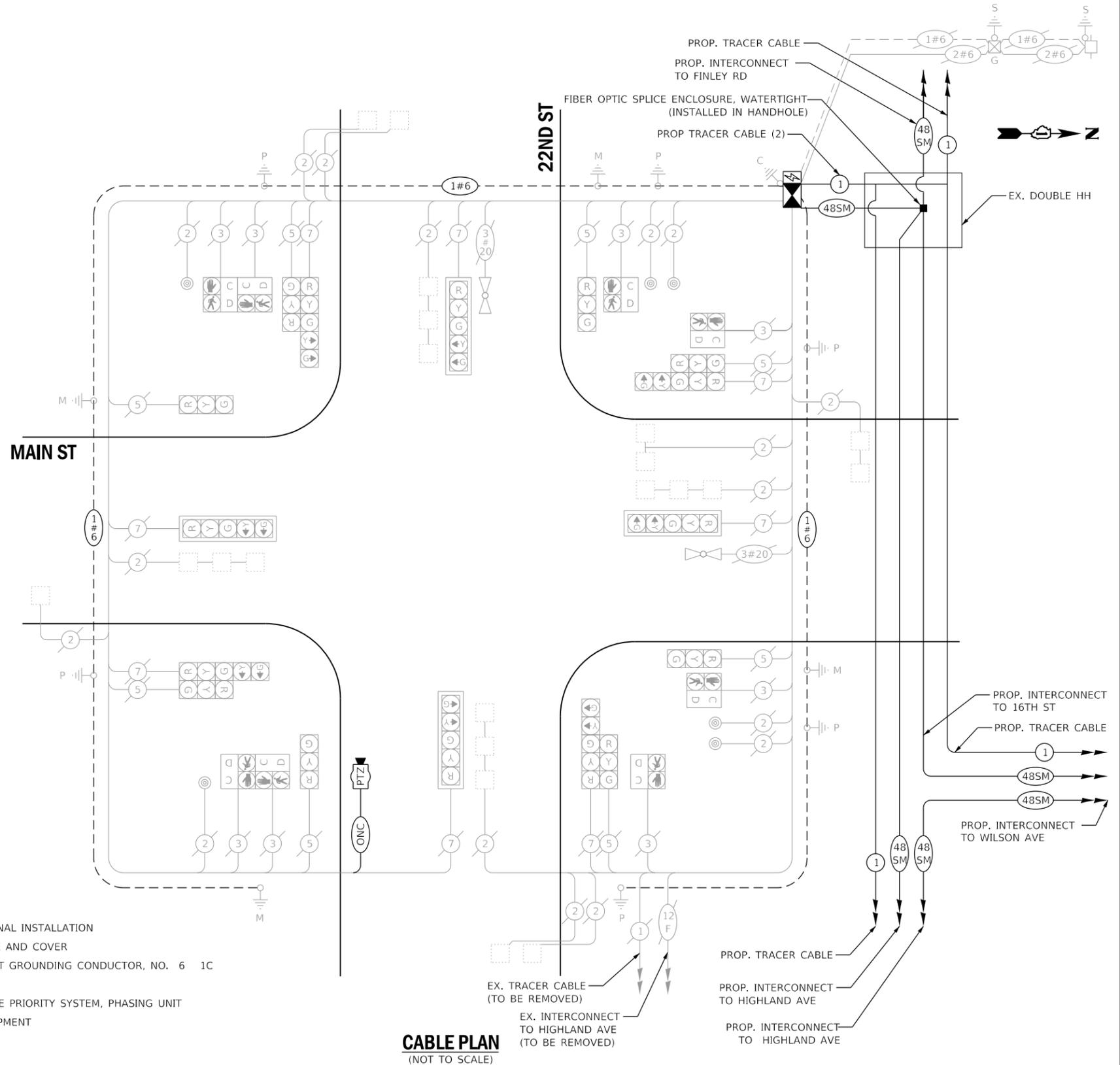
ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
11	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
266	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	POE EXTENDER

MAIN ST

22ND ST



**CABLE PLAN**  
(NOT TO SCALE)

**LOMBARD**  
**TS 01**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4**  
**MAIN ST AND 22ND ST**

SCALE: SHEET 9 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	74
			CONTRACT NO. 61H96	
		ILLINOIS FED. AID PROJECT		

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

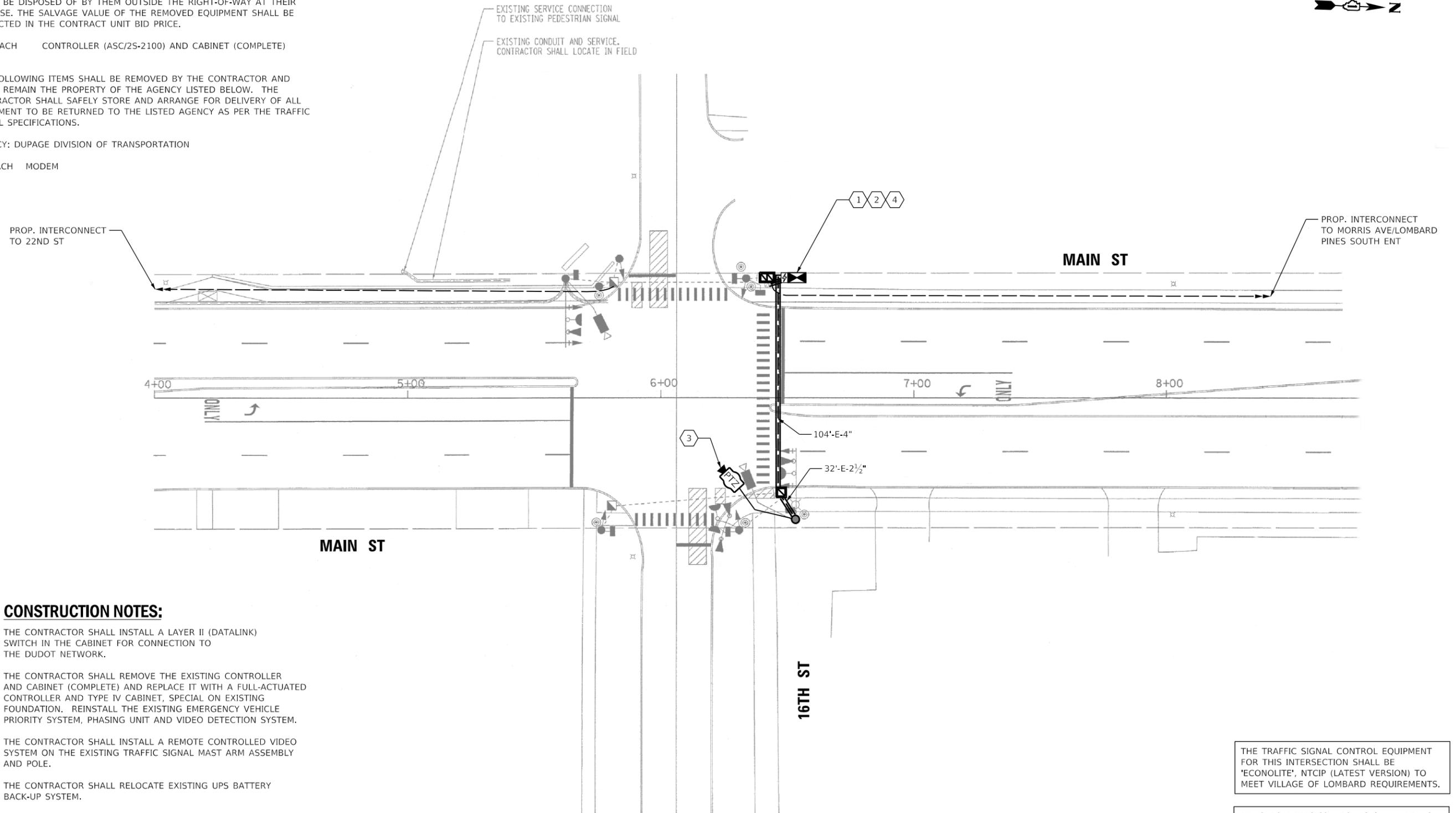
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2S-2100) AND CABINET (COMPLETE)

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

AGENCY: DUPAGE DIVISION OF TRANSPORTATION

- 1 EACH MODEM



**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT AND VIDEO DETECTION SYSTEM.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.

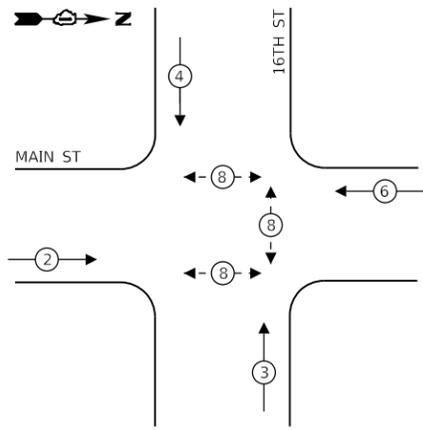
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

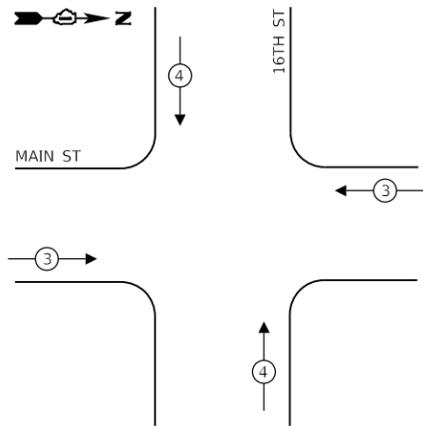
**LOMBARD TS 02**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4</b> <b>MAIN ST AND 16TH ST</b>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -						VAR.	19-DCCSS-04-TL	DUPAGE	293	75
	PLOT DATE = 6/12/2022	DATE -	REVISED -		SCALE: 1"=20'	SHEET 10	OF 96	SHEETS	STA.	TO STA.	CONTRACT NO. 61H96		
FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT CentralCADD_Sheets\shht-4B-Main-ts-plan.dgn Int 90													

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**LEGEND:**

- ⊛ — PROTECTED PHASE
- ⊛ — PROTECTED/PERMITTED PHASE
- ⊛ — PEDESTRIAN PHASE
- ⊛ — OVERLAP

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44
(YELLOW)	8	20	5	8
(GREEN)	12	12	45	65
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				837

ENERGY COSTS TO:

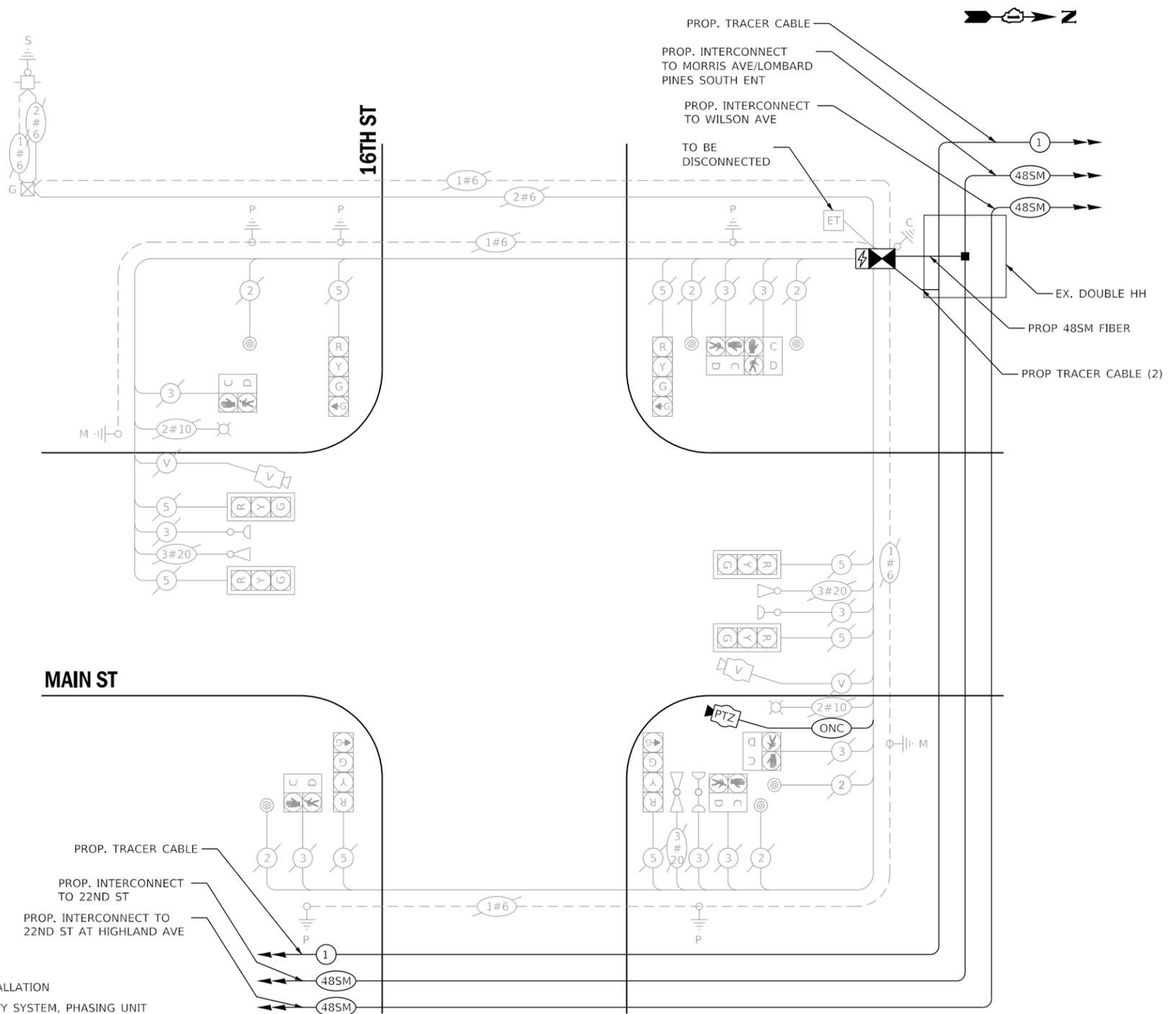
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	RELOCATE VIDEO VEHICLE DETECTION SYSTEM
195	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM



**CABLE PLAN**  
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**LOMBARD  
TS 02**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 "/td> <td>DRAWN - RG</td> <td>REVISED -</td>	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

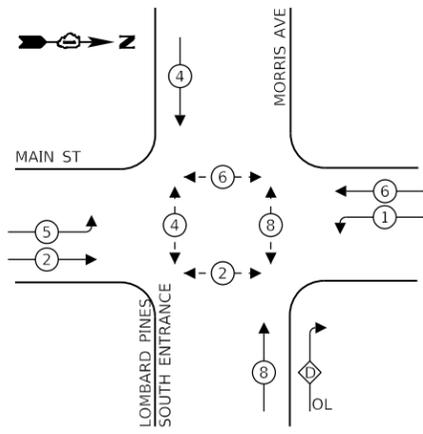
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4  
MAIN ST AND 16TH ST**

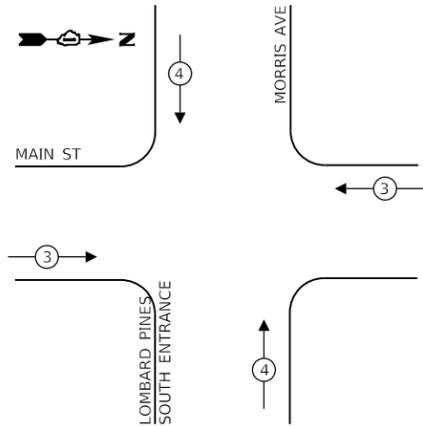
SCALE: SHEET 11 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	76
			CONTRACT NO.	61H96
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT.

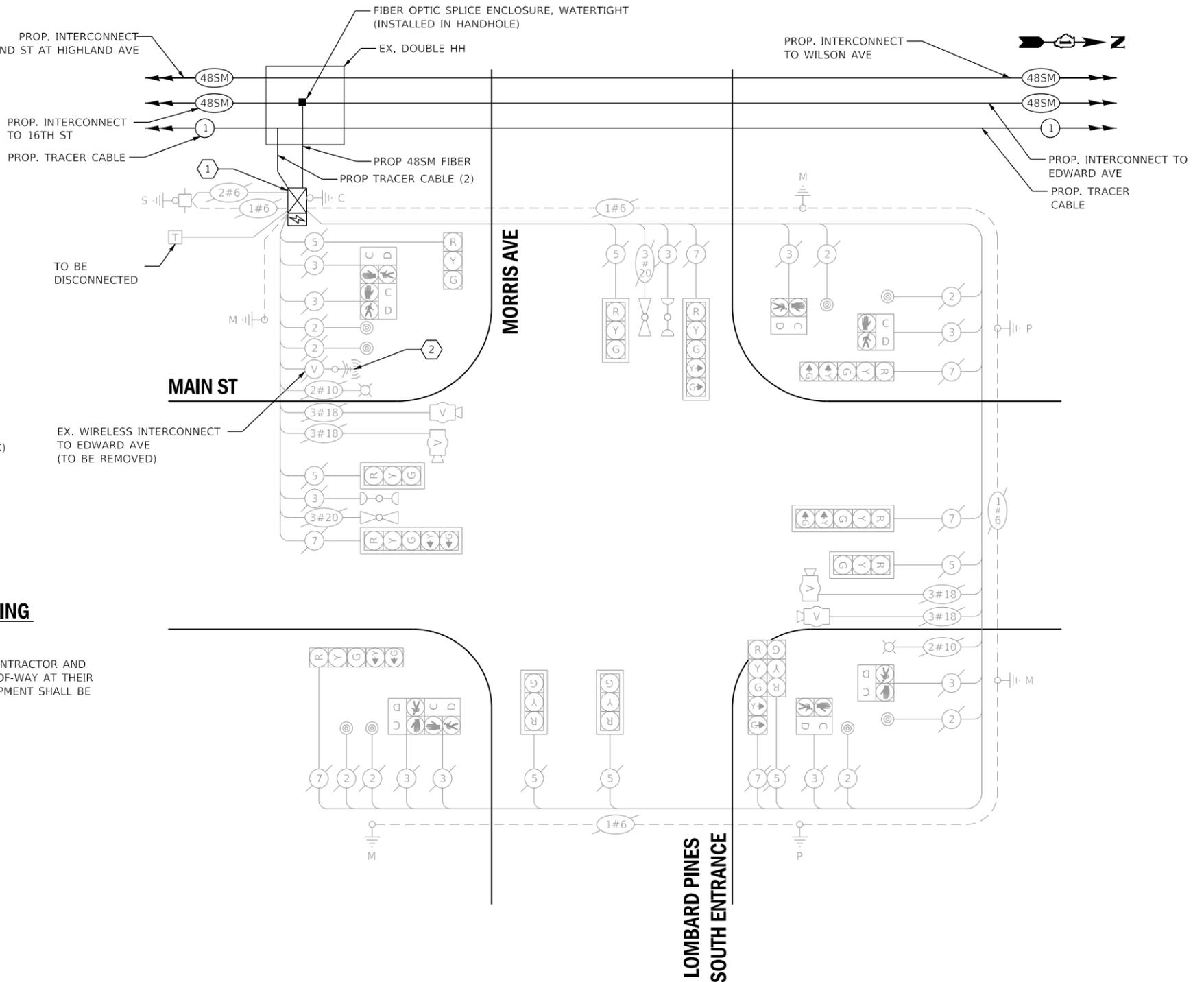
**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CONTROLLER (ASC/2S-1000)
- 1 EACH WIRELESS INTERCONNECT

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
15	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



**CABLE PLAN**  
(NOT TO SCALE)

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE, BY THE ENGINEER.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				853

ENERGY COSTS TO:

**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 MAIN ST AND MORRIS AVE/LOMBARD PINES SOUTH ENTRANCE**

SCALE: SHEET 12 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-04-TL	DUPAGE	293	77
CONTRACT NO. 61H96				
ILLINOIS FED. AID PROJECT				

**LOMBARD TS 03**

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

2 EACH WIRELESS INTERCONNECT

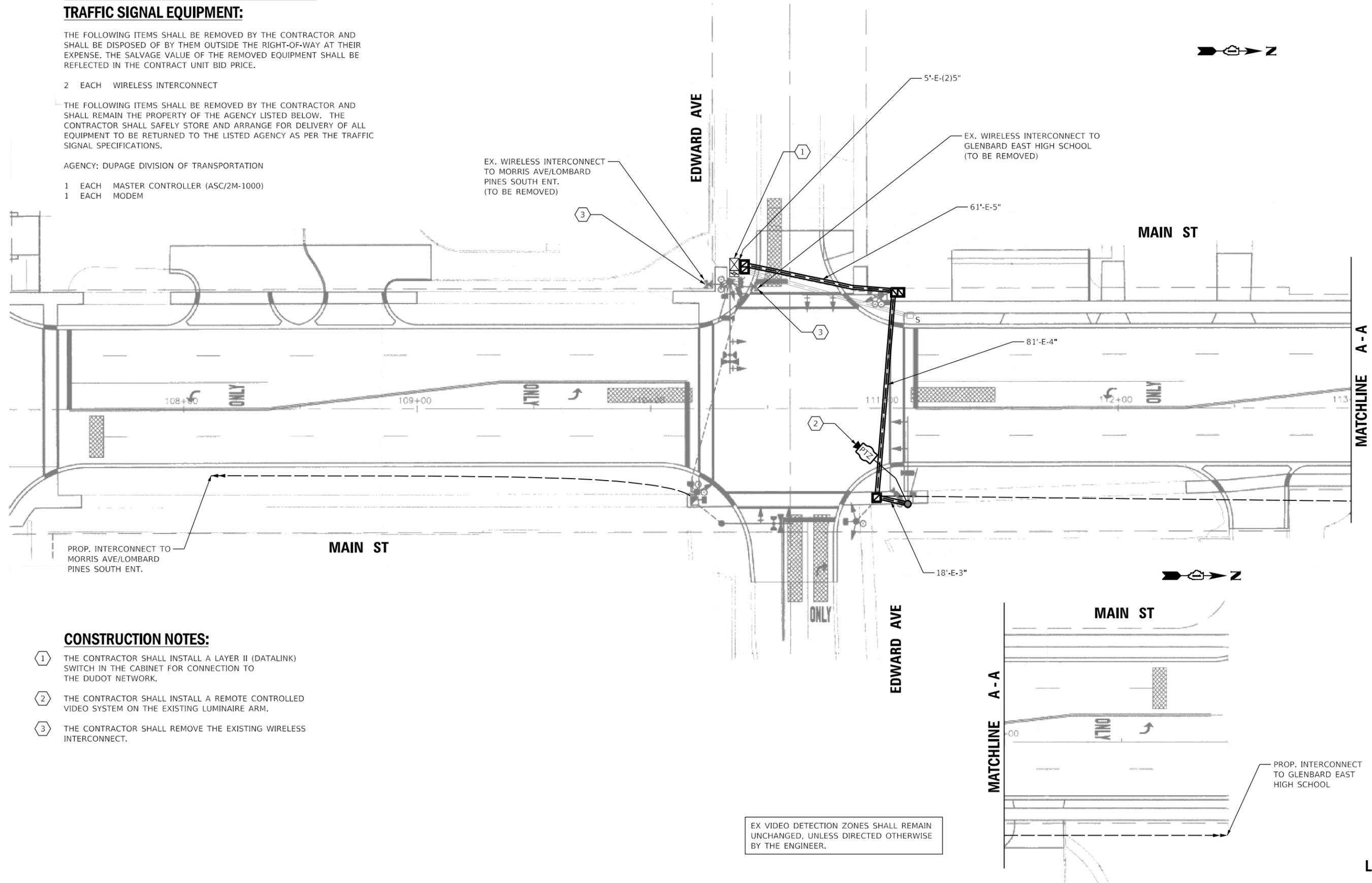
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE DIVISION OF TRANSPORTATION

1 EACH MASTER CONTROLLER (ASC/2M-1000)  
1 EACH MODEM

EX. WIRELESS INTERCONNECT TO MORRIS AVE/LOMBARD PINES SOUTH ENT. (TO BE REMOVED)

EX. WIRELESS INTERCONNECT TO GLENBARD EAST HIGH SCHOOL (TO BE REMOVED)



PROP. INTERCONNECT TO MORRIS AVE/LOMBARD PINES SOUTH ENT.

MAIN ST

EDWARD AVE

MAIN ST

MATCHLINE A-A

PROP. INTERCONNECT TO GLENBARD EAST HIGH SCHOOL

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT.

**LOMBARD TS 04**



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

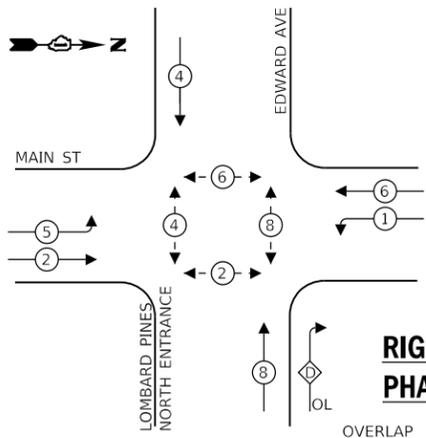
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
MAIN ST AND EDWARD AVE

SCALE: 1"=20' SHEET 13 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCS-04-TL	DUPAGE	293	78
CONTRACT NO. 61H96				
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



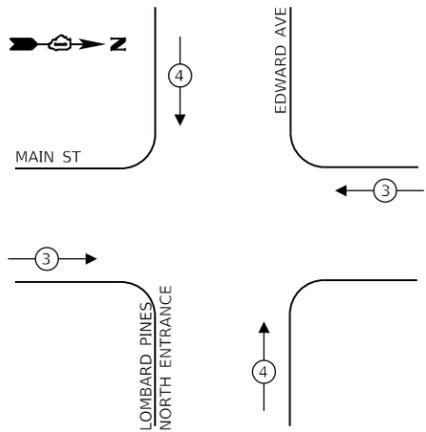
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
<b>TOTAL =</b>				<b>928</b>

ENERGY COSTS TO:

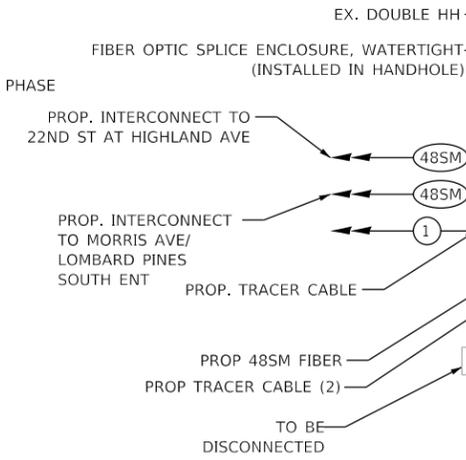
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
12	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
233	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATA LINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

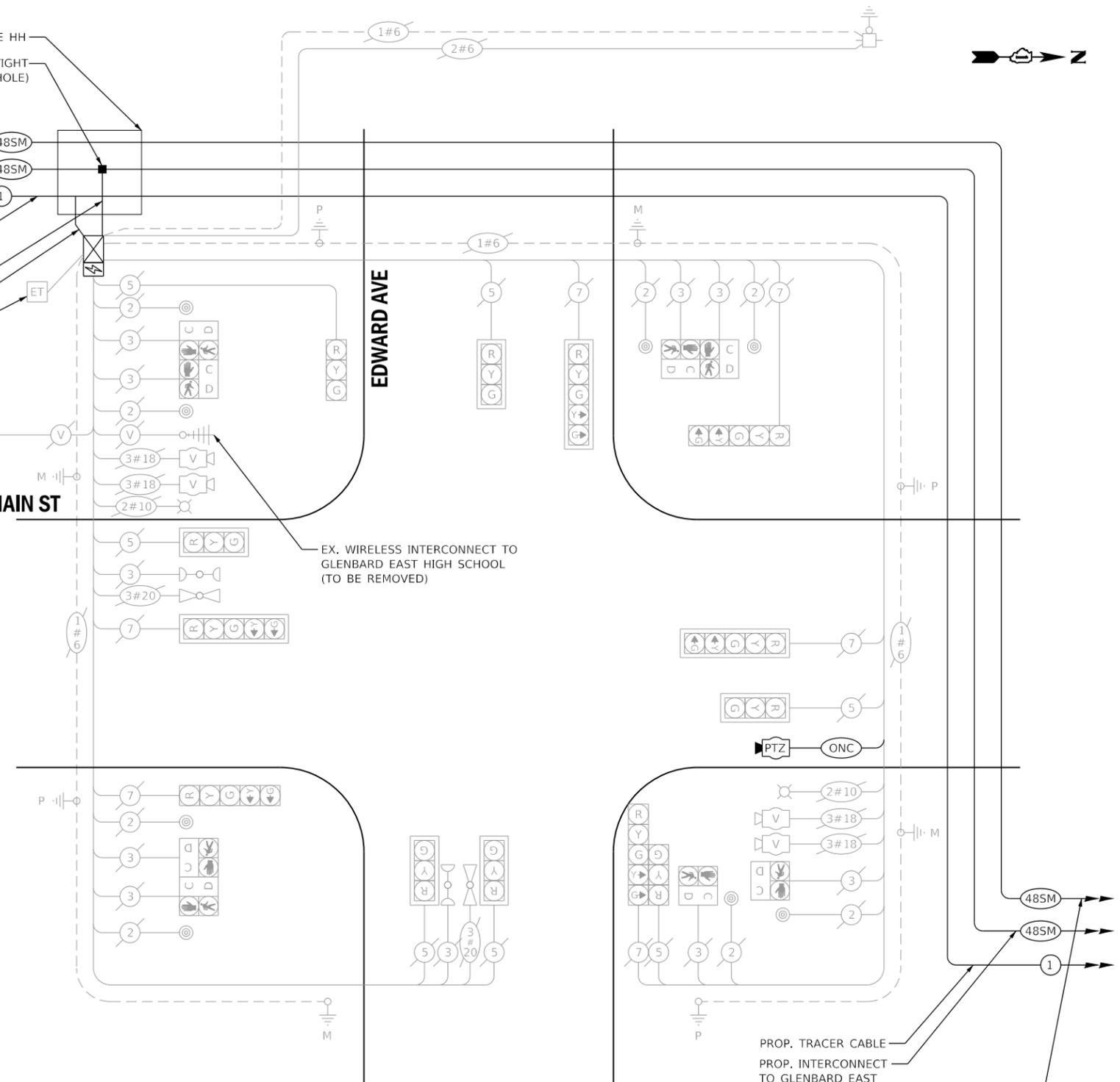


EX. WIRELESS INTERCONNECT TO MORRIS AVE/LOMBARD PINES SOUTH ENT (TO BE REMOVED)

EX. WIRELESS INTERCONNECT TO GLENBARD EAST HIGH SCHOOL (TO BE REMOVED)

MAIN ST

EDWARD AVE



**CABLE PLAN**  
(NOT TO SCALE)

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**LOMBARD TS 04**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

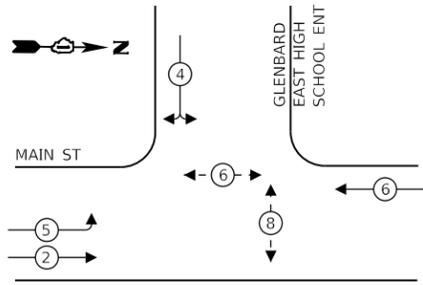
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 MAIN ST AND EDWARD AVE**

SCALE: SHEET 14 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	79
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

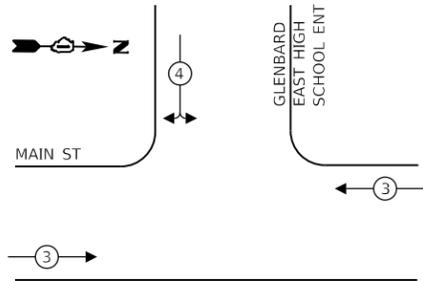
**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

AGENCY: VILLAGE OF LOMBARD

- 1 EACH MODEM
- 1 EACH WIRELESS INTERCONNECT

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	4	20	100	80
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				728

ENERGY COSTS TO:

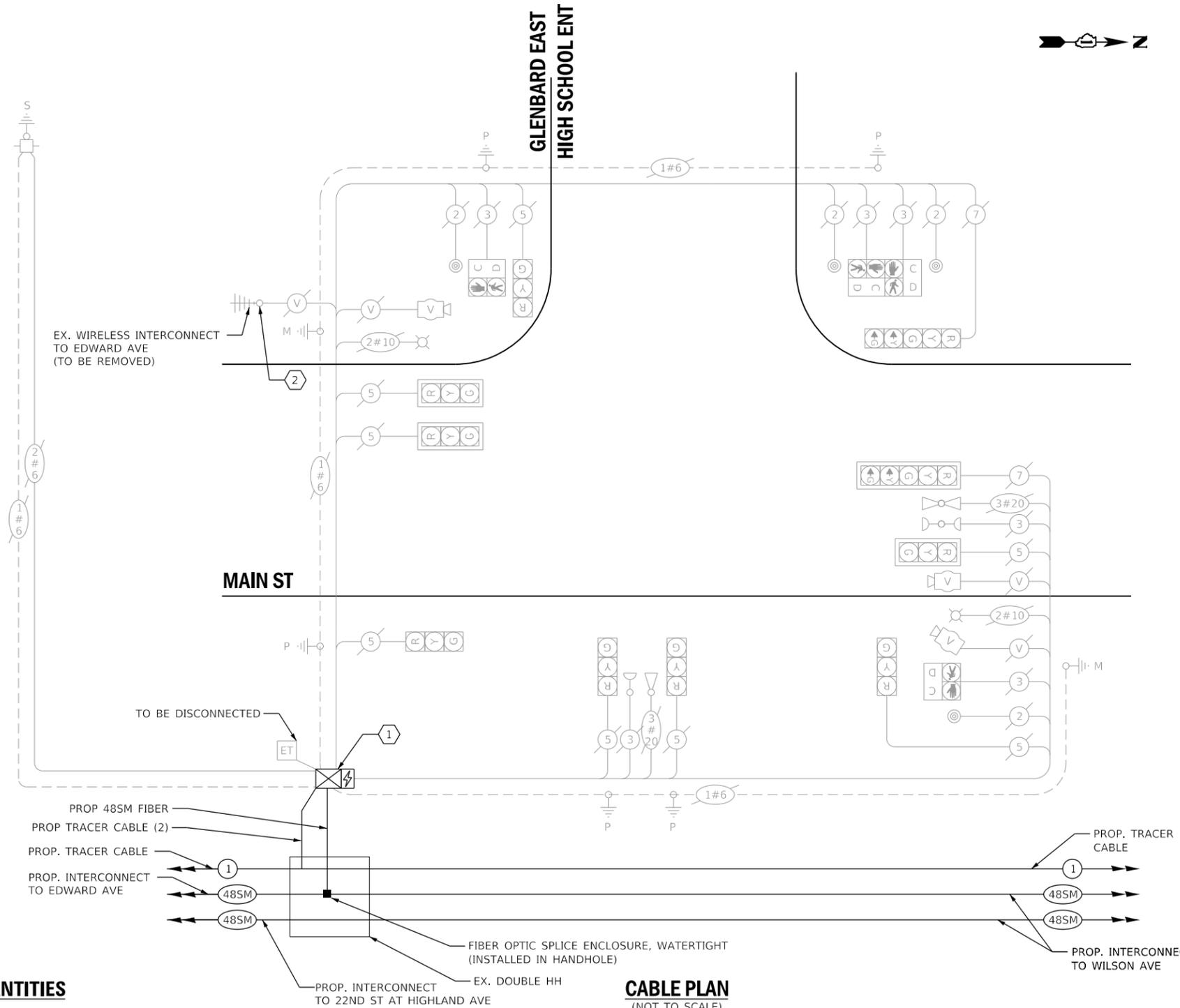
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
94	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



**CABLE PLAN (NOT TO SCALE)**

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**LOMBARD TS 05**

<b>DLZ</b>	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
	PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 MAIN ST AND GLENBARD EAST HIGH SCHOOL**

SCALE: SHEET 15 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	80
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

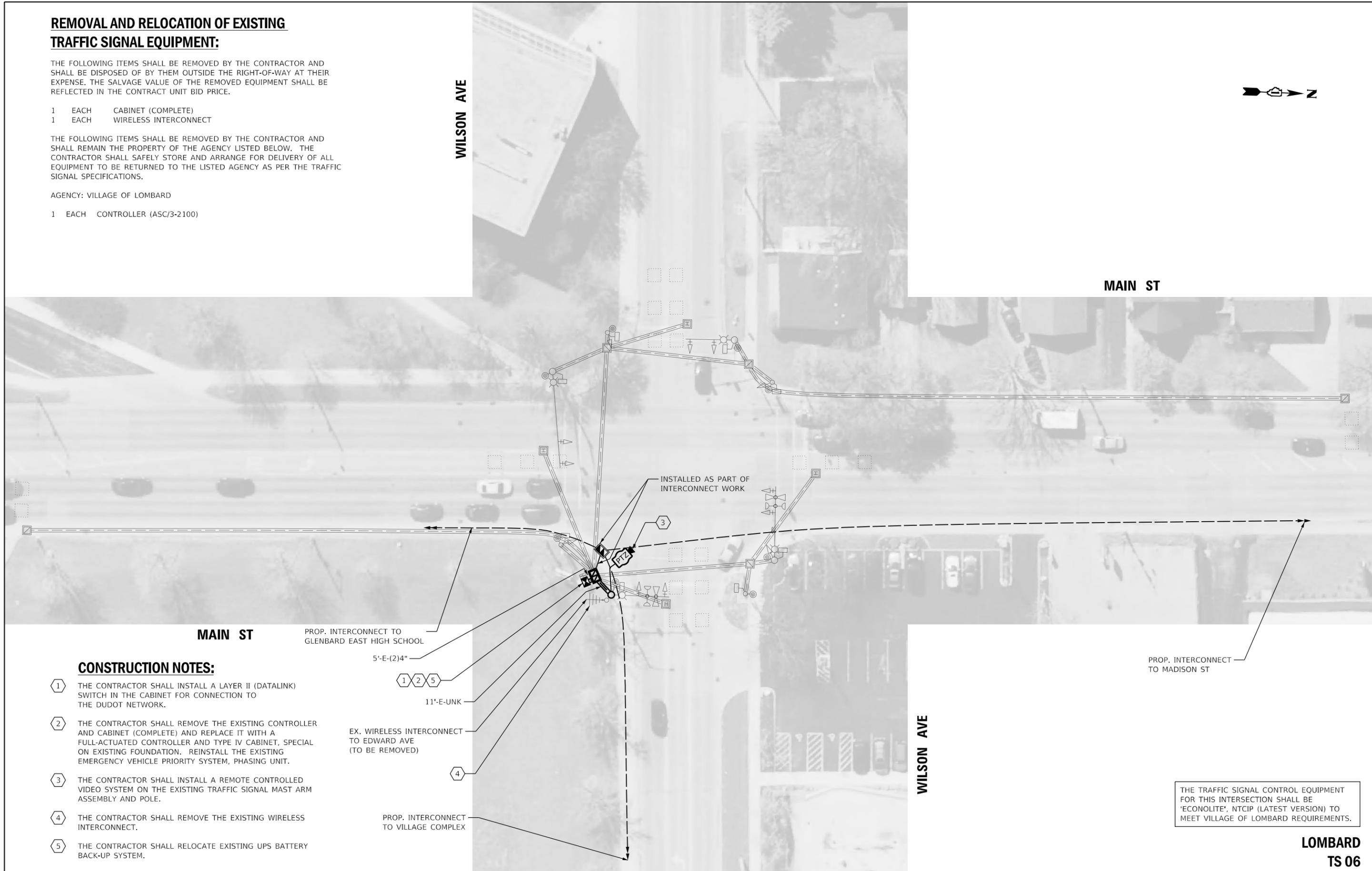
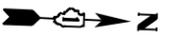
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CABINET (COMPLETE)
- 1 EACH WIRELESS INTERCONNECT

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

AGENCY: VILLAGE OF LOMBARD

- 1 EACH CONTROLLER (ASC/3-2100)



**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT.
- 5 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.

PROP. INTERCONNECT TO GLENBARD EAST HIGH SCHOOL

5'-E-(2)4"

1 2 5

11'-E-UNK

EX. WIRELESS INTERCONNECT TO EDWARD AVE (TO BE REMOVED)

4

PROP. INTERCONNECT TO VILLAGE COMPLEX

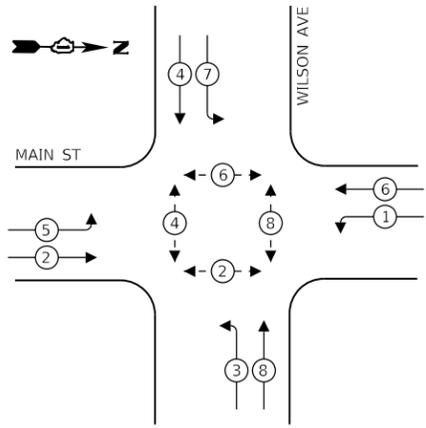
PROP. INTERCONNECT TO MADISON ST

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD TS 06**

	USER NAME = rgeorgescu	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 MAIN ST AND WILSON AVE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -						VAR.	19-DCCSS-04-TL	DUPAGE	293	81
	PLOT DATE = 6/14/2022	CHECKED - ZH	REVISED -						CONTRACT NO. 61H96		ILLINOIS FED. AID PROJECT		

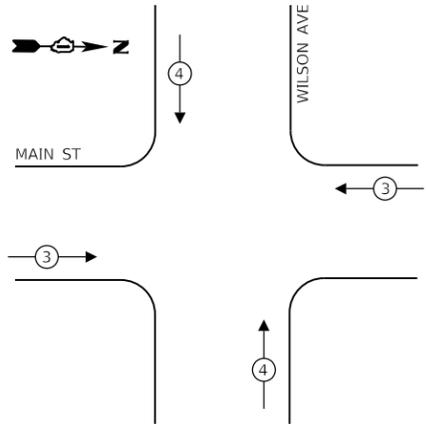
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
<b>TOTAL =</b>				<b>1019</b>

ENERGY COSTS TO:

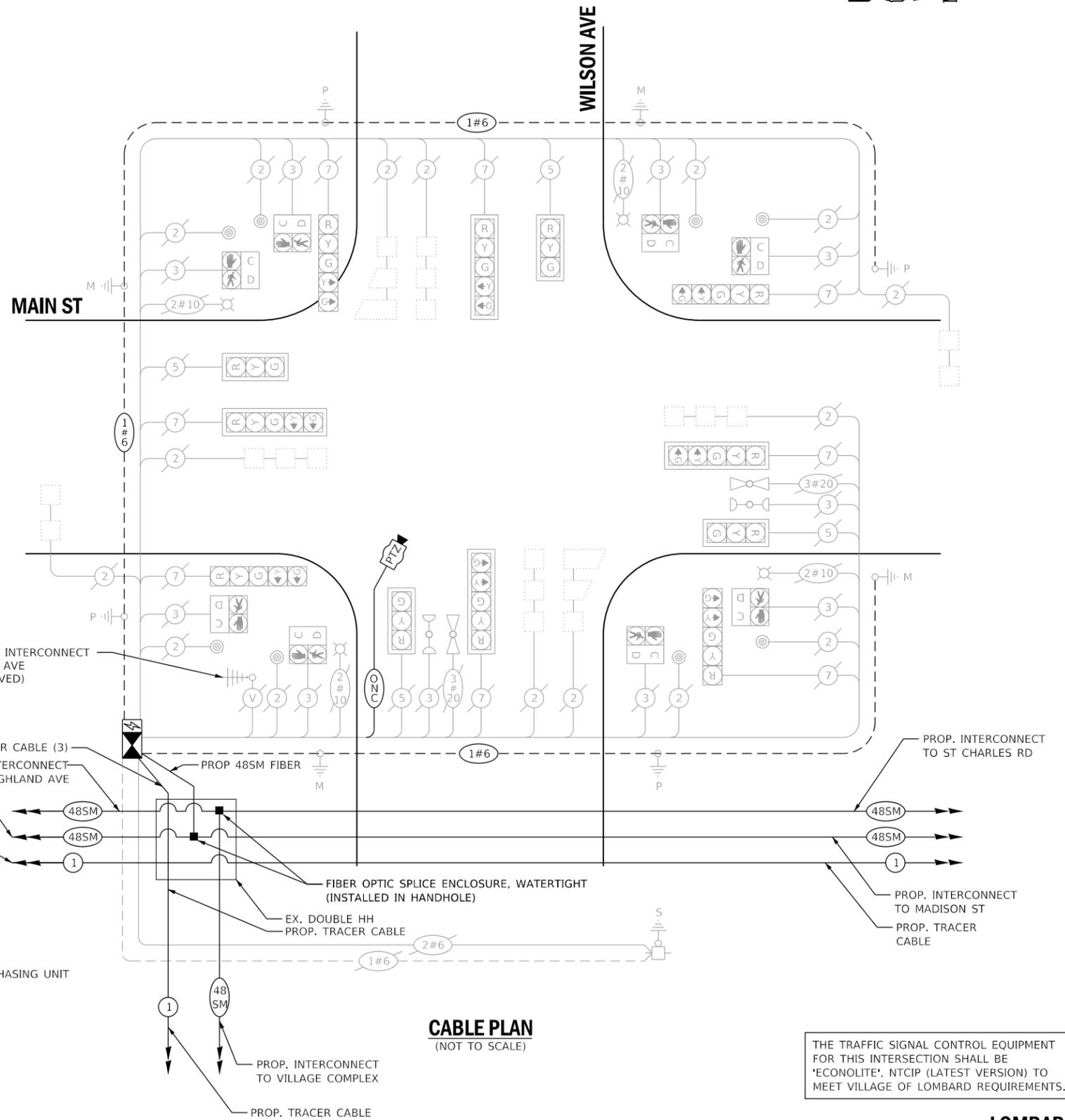
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
16	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
84	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM



**CABLE PLAN**  
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD  
TS 06**



USER NAME = dwiktorzak  
DESIGNED - ZH  
DRAWN - RG  
PLOT SCALE = 40.0000 ' / in.  
CHECKED - DW  
PLOT DATE = 6/12/2022  
DATE -

REVISOR -  
REVISOR -  
REVISOR -  
REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4  
MAIN ST AND WILSON AVE**

SCALE: SHEET 17 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	82
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

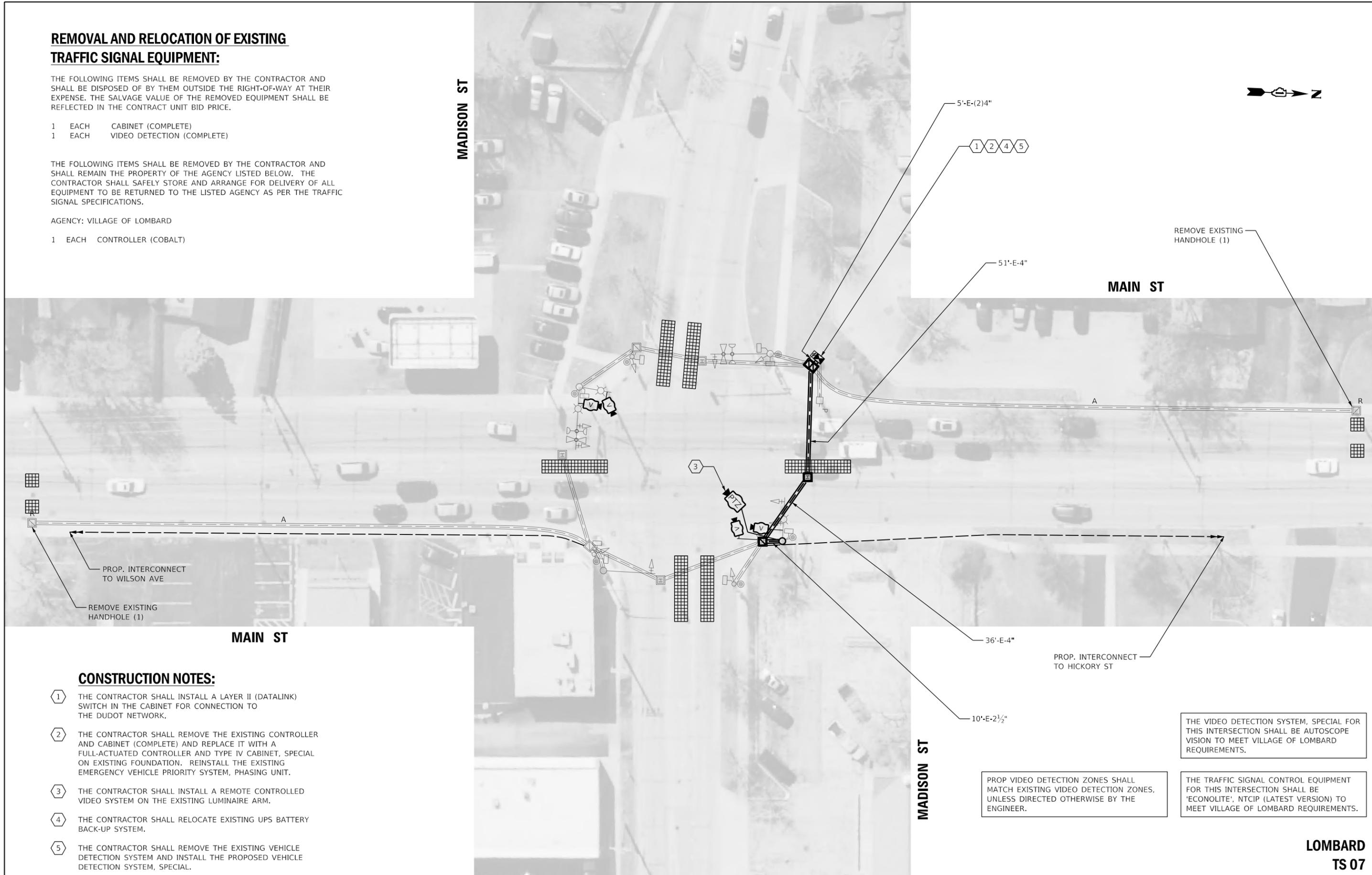
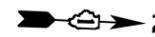
- 1 EACH CABINET (COMPLETE)
- 1 EACH VIDEO DETECTION (COMPLETE)

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

AGENCY: VILLAGE OF LOMBARD

- 1 EACH CONTROLLER (COBALT)

MADISON ST



**MAIN ST**

**MAIN ST**

MADISON ST

**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING VEHICLE DETECTION SYSTEM AND INSTALL THE PROPOSED VEHICLE DETECTION SYSTEM, SPECIAL.

THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

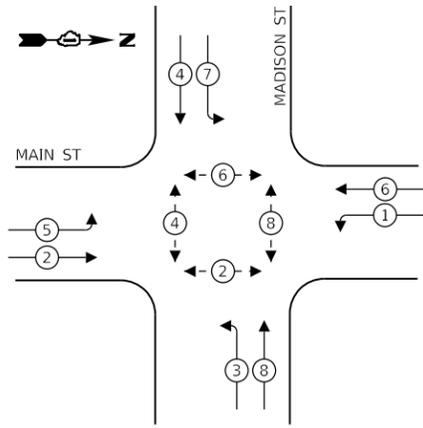
PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD TS 07**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 MAIN ST AND MADISON ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 18	OF 96	SHEETS	STA.	TO STA.	VAR.	19-DCCSS-04-TL	DUPAGE
	PLOT DATE = 6/12/2022	CHECKED - ZH	REVISED -									CONTRACT NO. 61H96	
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT	

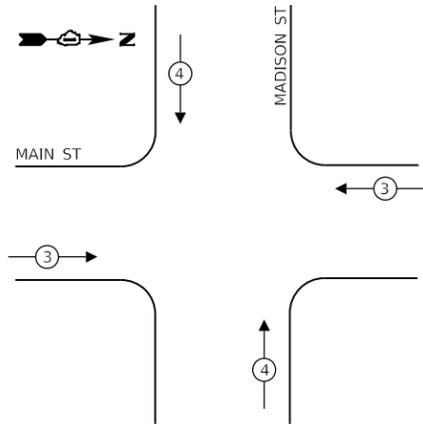
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
<b>TOTAL =</b>				<b>895</b>

ENERGY COSTS TO:

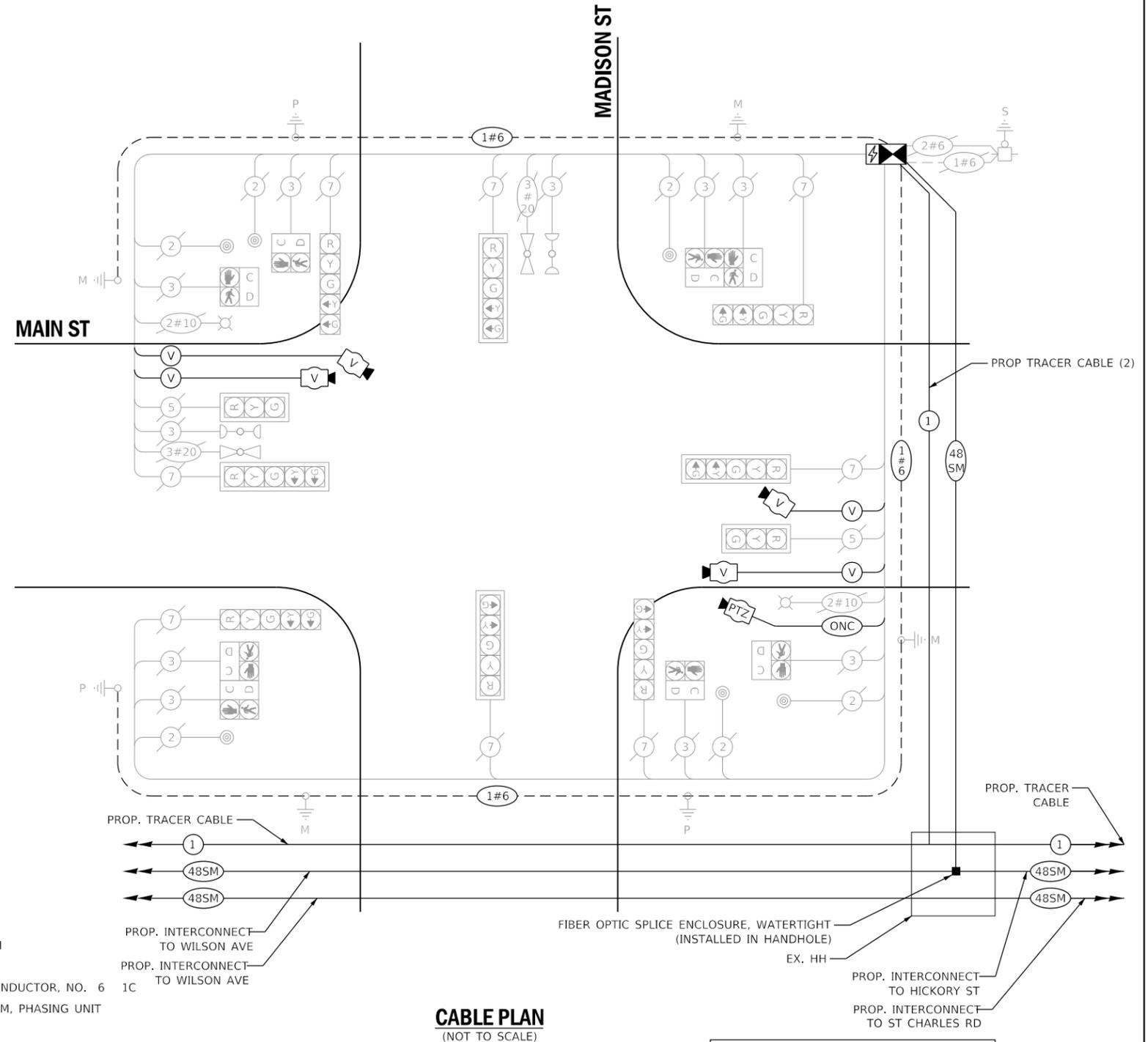
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
436	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
183	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



**CABLE PLAN  
(NOT TO SCALE)**

PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD  
TS 07**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 "/>		

DRAWN - RG	REVISED -
CHECKED - DW	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4  
MAIN ST AND MADISON ST**

SCALE: SHEET 19 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	84
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

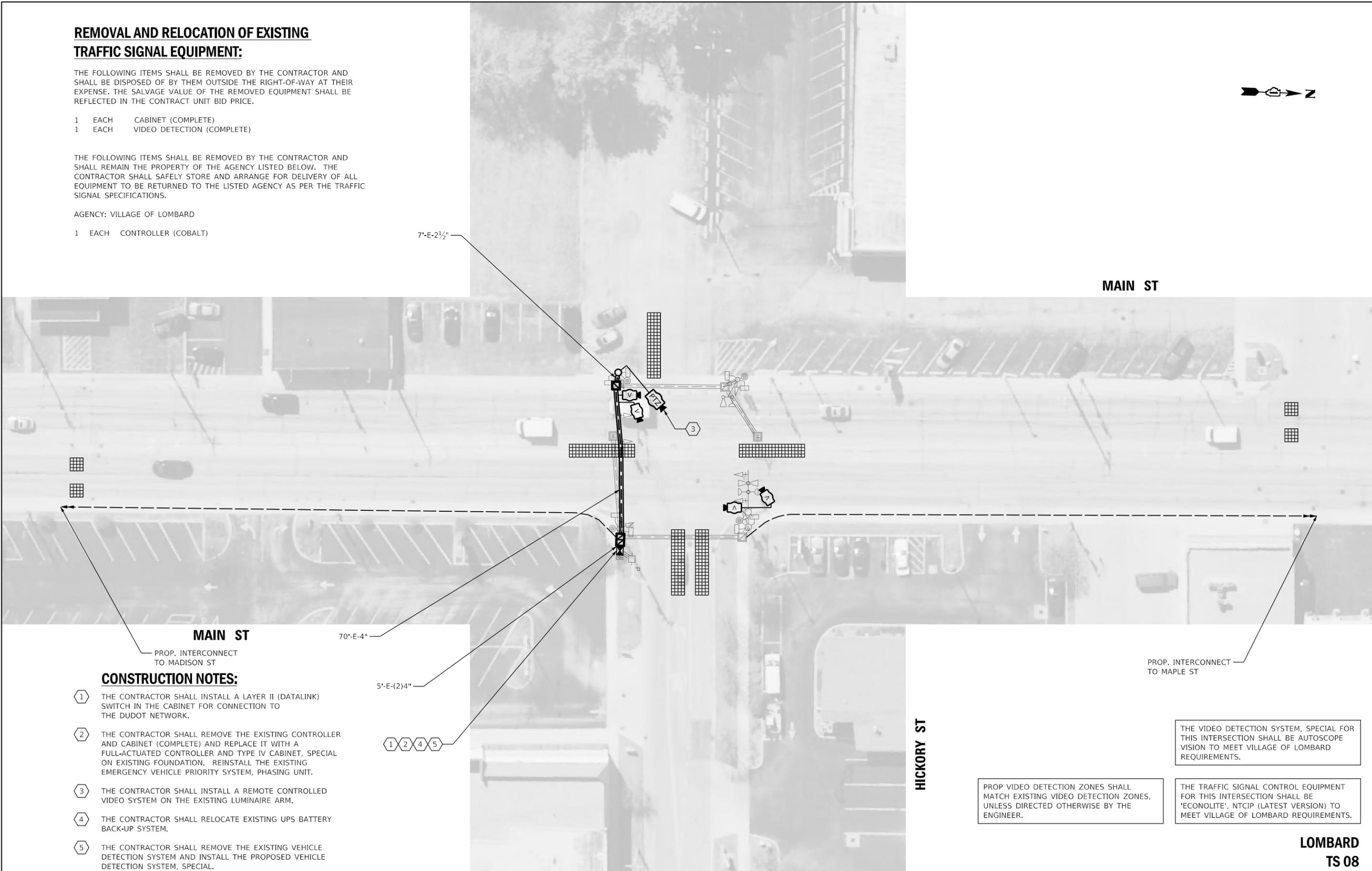
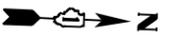
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CABINET (COMPLETE)
- 1 EACH VIDEO DETECTION (COMPLETE)

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

AGENCY: VILLAGE OF LOMBARD

- 1 EACH CONTROLLER (COBALT)



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- ③ THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ④ THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.
- ⑤ THE CONTRACTOR SHALL REMOVE THE EXISTING VEHICLE DETECTION SYSTEM AND INSTALL THE PROPOSED VEHICLE DETECTION SYSTEM, SPECIAL.

PROP. INTERCONNECT TO MAPLE ST

THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

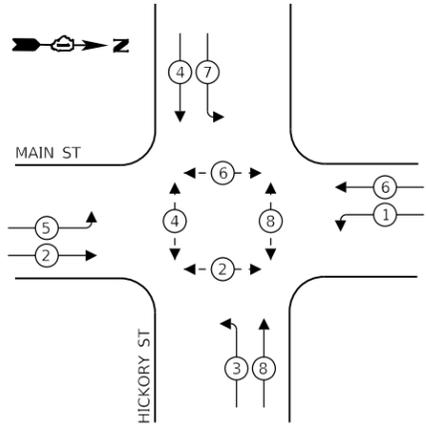
PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD TS 08**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 MAIN ST AND HICKORY ST				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 20	OF 96	SHEETS	STA.	TO STA.	19-DCCSS-04-TL	DUPAGE	293
	PLOT DATE = 6/12/2022	CHECKED - ZH	REVISED -								CONTRACT NO. 61H96		
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT		

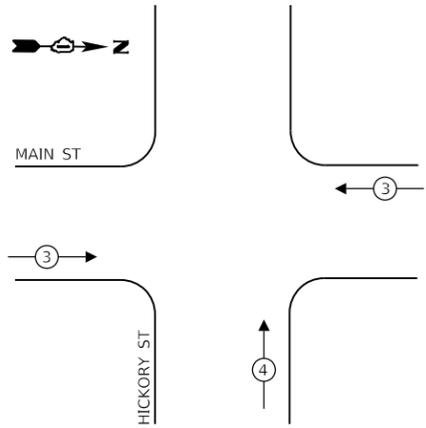
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
<b>TOTAL =</b>				<b>891</b>

ENERGY COSTS TO:

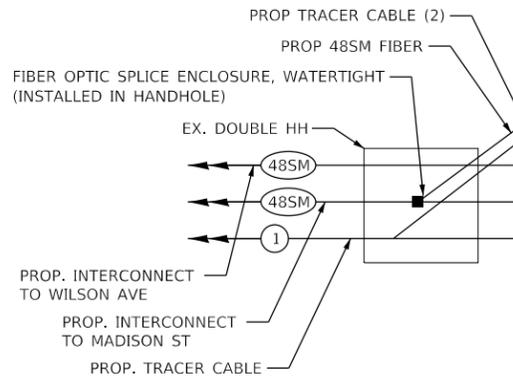
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

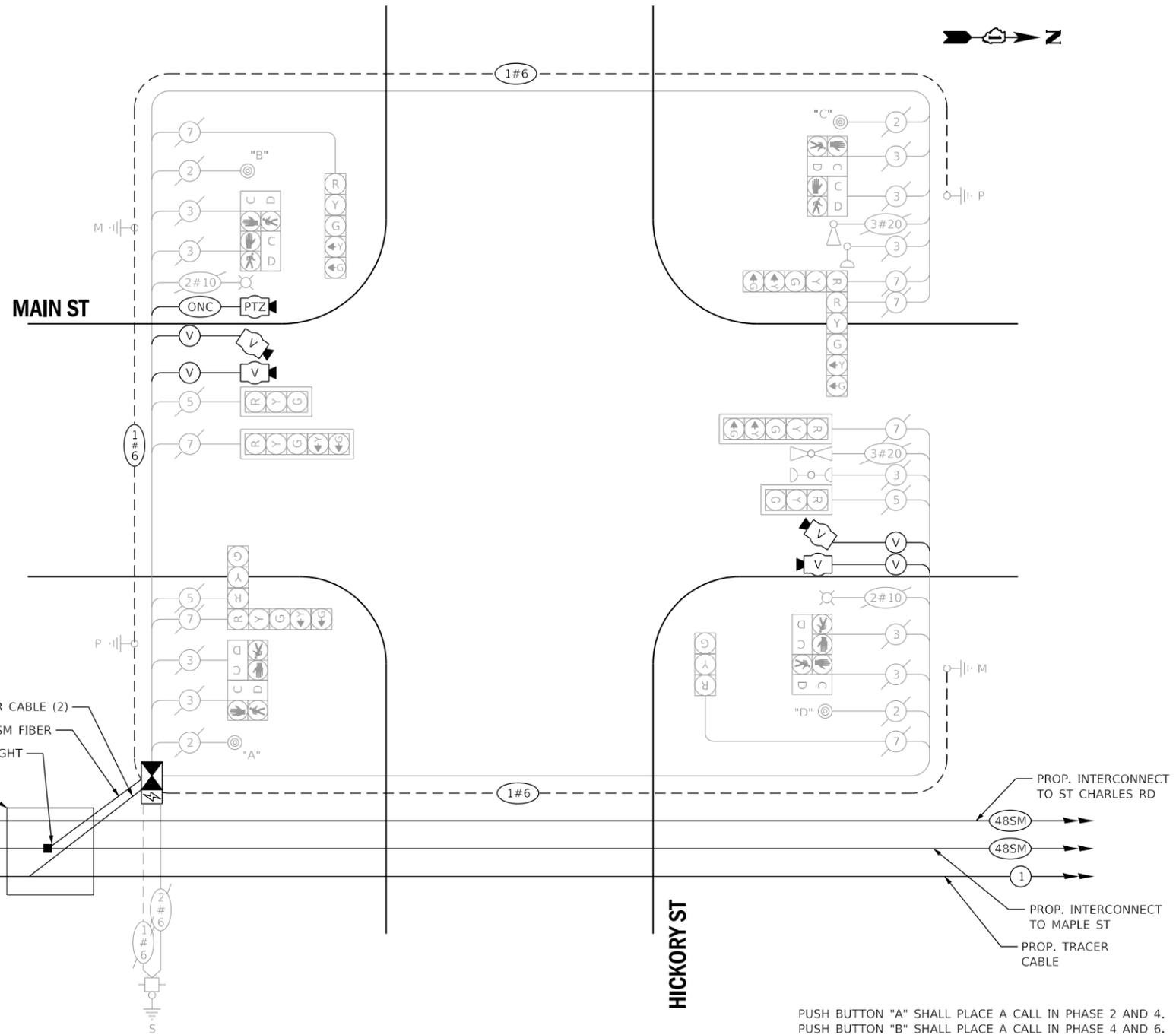
**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
296	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
156	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



MAIN ST

HICKORY ST



**CABLE PLAN  
(NOT TO SCALE)**

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4.  
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6.  
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8.  
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 8 AND 2.

THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD  
TS 08**

	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	<b>CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 MAIN ST AND HICKORY ST</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RG	REVISED -	VAR.			19-DCCSS-04-TL	DUPAGE	293	86	
PLOT SCALE = 40.0000 "/td> <td style="font-size: x-small;">CHECKED - DW</td> <td style="font-size: x-small;">REVISED -</td> <td style="font-size: x-small;">DATE</td> <td style="font-size: x-small;">SCALE:</td> <td style="font-size: x-small;">SHEET 21</td> <td style="font-size: x-small;">OF 96</td> <td style="font-size: x-small;">SHEETS</td> <td style="font-size: x-small;">STA.</td> <td style="font-size: x-small;">TO STA.</td> <td style="font-size: x-small;">ILLINOIS FED. AID PROJECT</td>	CHECKED - DW	REVISED -	DATE	SCALE:	SHEET 21	OF 96	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT
PLOT DATE = 6/12/2022	DATE	REVISED -	DATE	CONTRACT NO. 61H96						

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

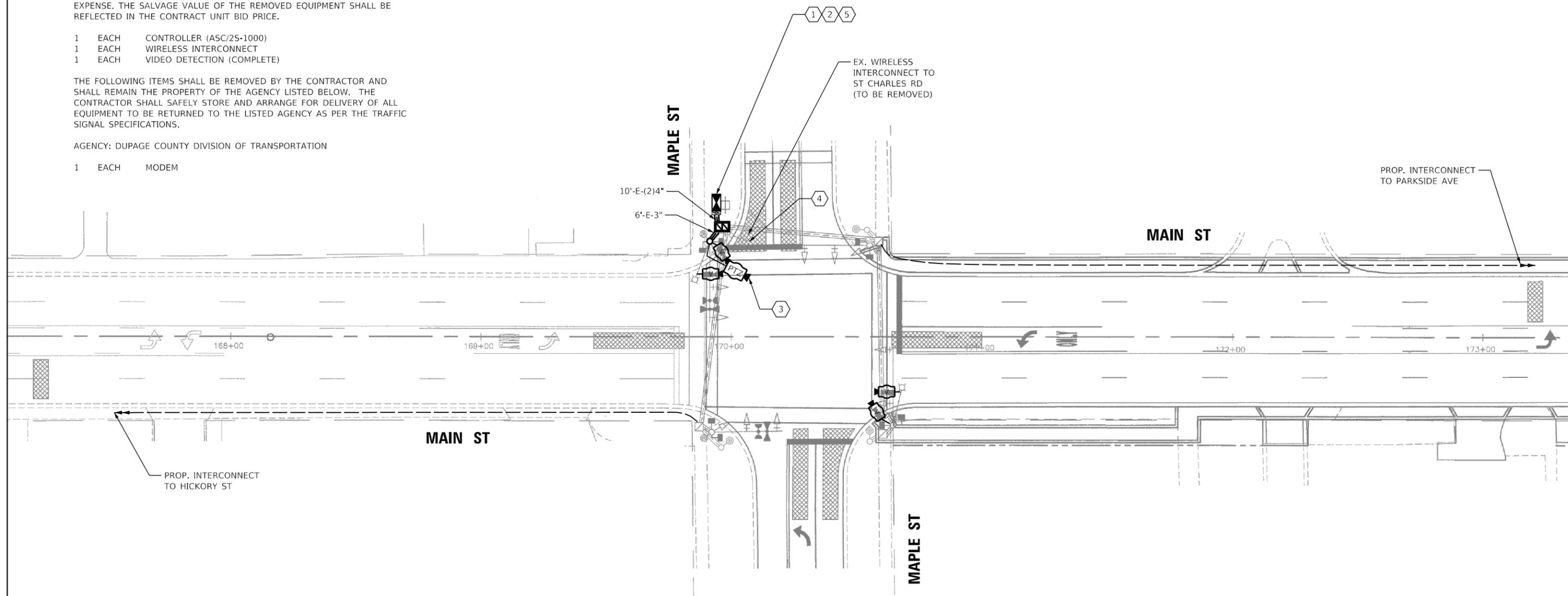
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2S-1000)
- 1 EACH WIRELESS INTERCONNECT
- 1 EACH VIDEO DETECTION (COMPLETE)

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH MODEM



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL ACTUATED CONTROLLER IN THE EXISTING CABINET.
- ③ THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ④ THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT.
- ⑤ THE CONTRACTOR SHALL REMOVE THE EXISTING VEHICLE DETECTION SYSTEM AND INSTALL THE PROPOSED VEHICLE DETECTION SYSTEM, SPECIAL.

THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

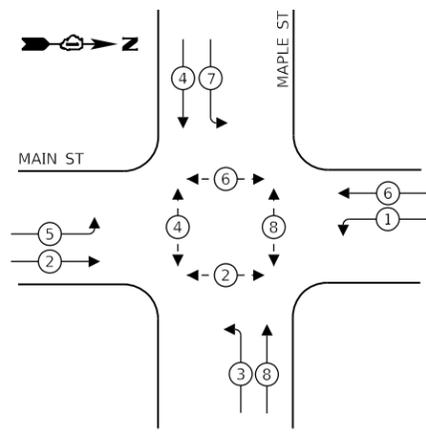
PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

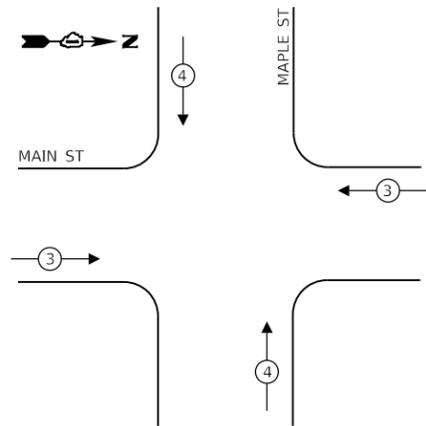
**LOMBARD TS 09**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 MAIN ST AND MAPLE ST				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -						VAR.	19-DCCSS-04-TL	DUPAGE	293	87
PLOT DATE = 6/12/2022	CHECKED - ZH	REVISED -	DATE -	SCALE: 1"=20'	SHEET 22	OF 96	SHEETS	STA.	TO STA.	CONTRACT NO. 61H96			
	DATE -	REVISED -								ILLINOIS FED. AID PROJECT			

**EXISTING CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**LEGEND:**

- ⊛ — PROTECTED PHASE
- ⊛ — PROTECTED/PERMITTED PHASE
- ⊛ — PEDESTRIAN PHASE
- ⊛ — OVERLAP

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				919

ENERGY COSTS TO:

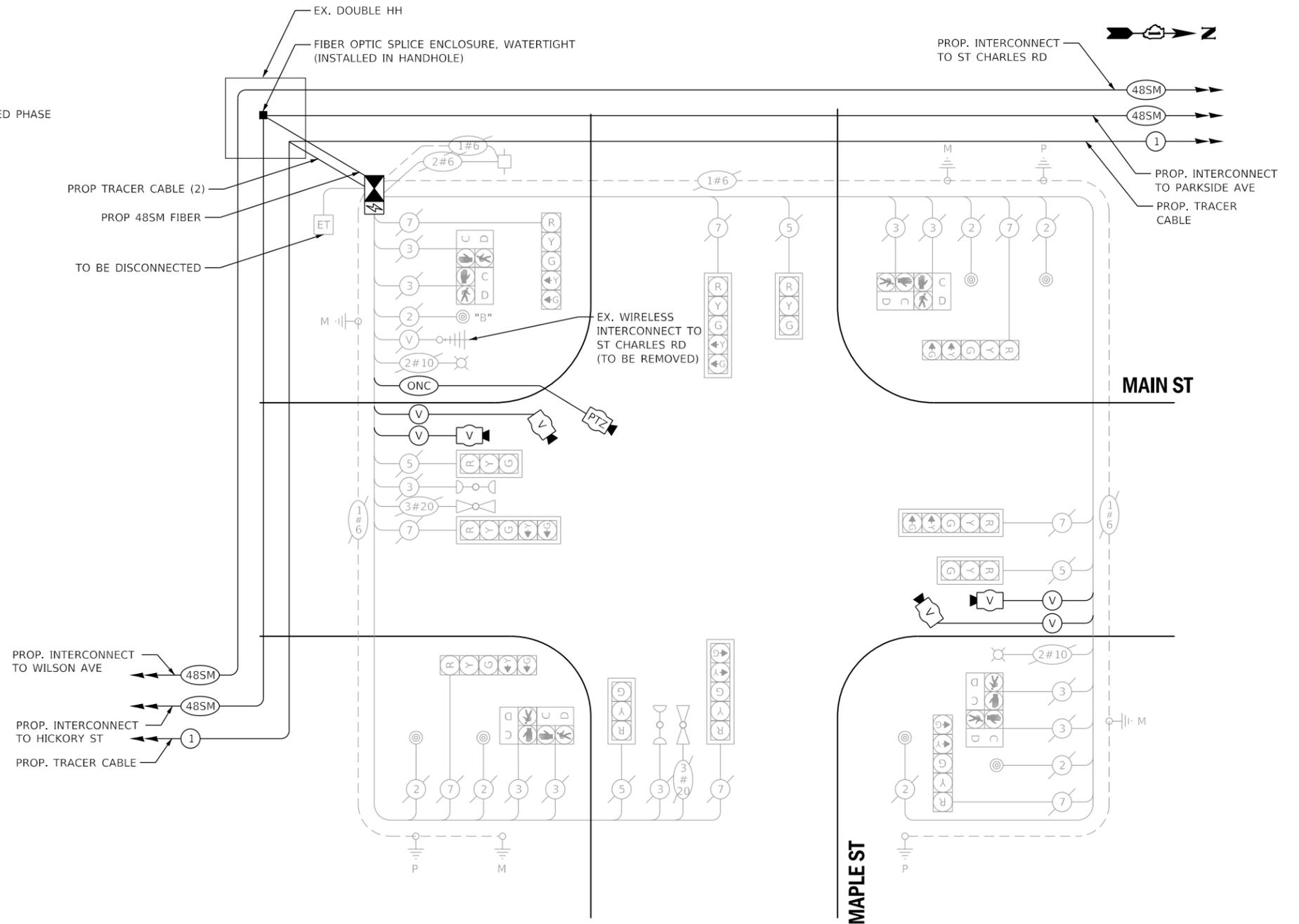
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
340	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
84	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6.

**CABLE PLAN  
(NOT TO SCALE)**

THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD  
TS 09**

	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	<b>CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 MAIN ST AND MAPLE ST</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -			VAR.	19-DCCSS-04-TL	DUPAGE	293	88
PLOT DATE = 6/12/2022	DATE -	REVISED -		SCALE:	SHEET 23 OF 96 SHEETS	STA.	TO STA.	CONTRACT NO. 61H96		

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

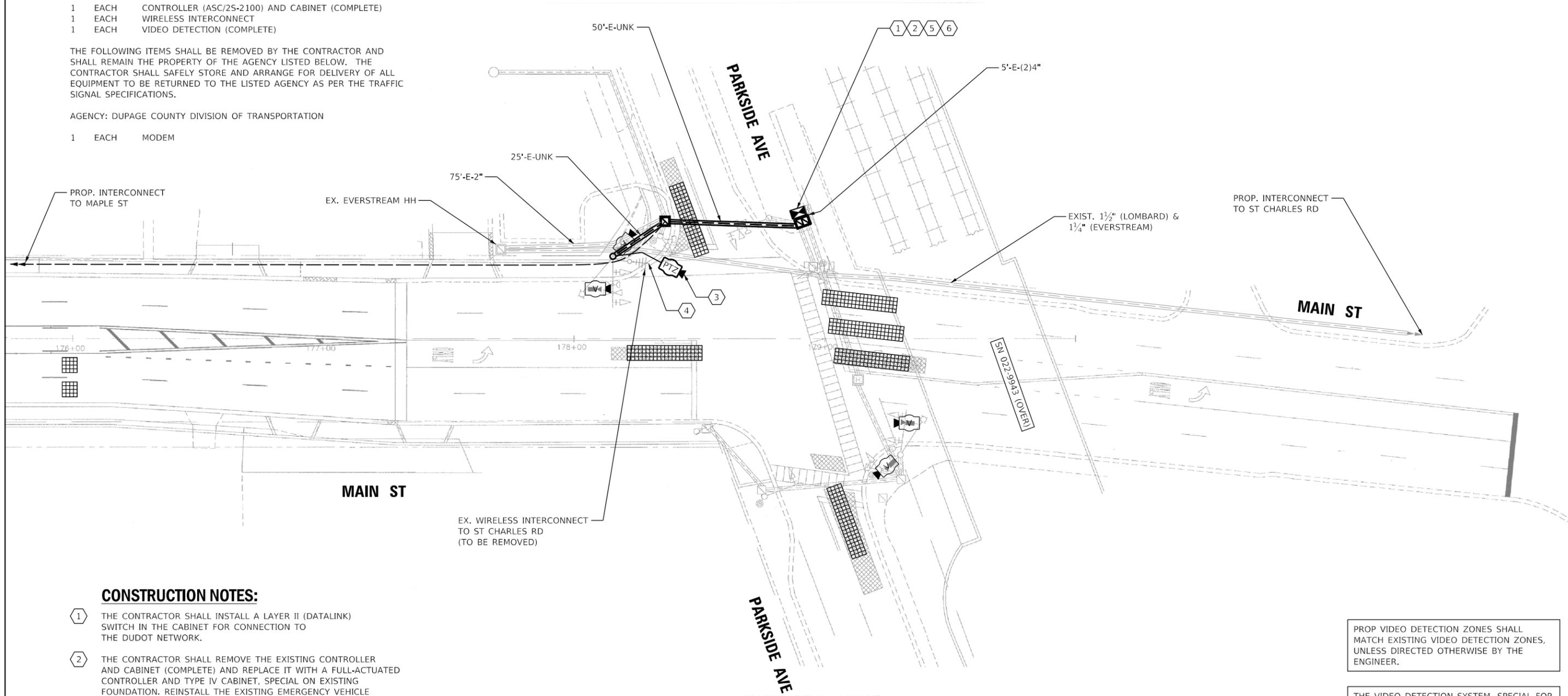
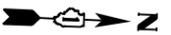
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/25-2100) AND CABINET (COMPLETE)
- 1 EACH WIRELESS INTERCONNECT
- 1 EACH VIDEO DETECTION (COMPLETE)

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH MODEM



**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT.
- 5 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING VEHICLE DETECTION SYSTEM AND INSTALL THE PROPOSED VEHICLE DETECTION SYSTEM, SPECIAL.

PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

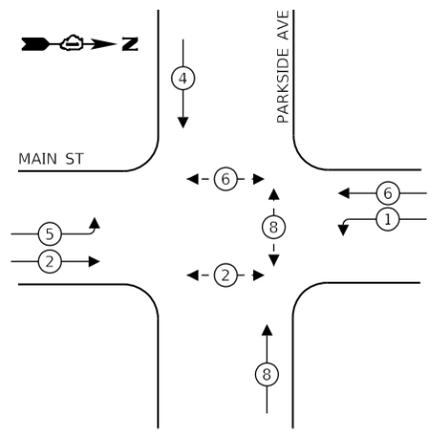
THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

**LOMBARD TS 10**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 MAIN ST AND PARKSIDE AVE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -					VAR.	19-DCCSS-04-TL	DUPAGE	293	89
	PLOT DATE = 6/12/2022	DATE -	REVISED -		SCALE: 1"=20'	SHEET 24	OF 96	SHEETS	STA.	TO STA.	CONTRACT NO. 61H96	
											ILLINOIS FED. AID PROJECT	

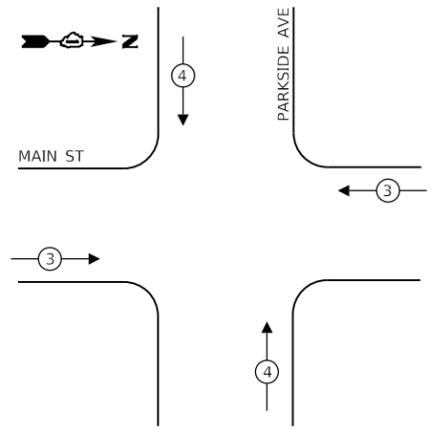
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**EXISTING EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	61
(YELLOW)	11	20	5	11
(GREEN)	11	12	45	60
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				860

ENERGY COSTS TO:

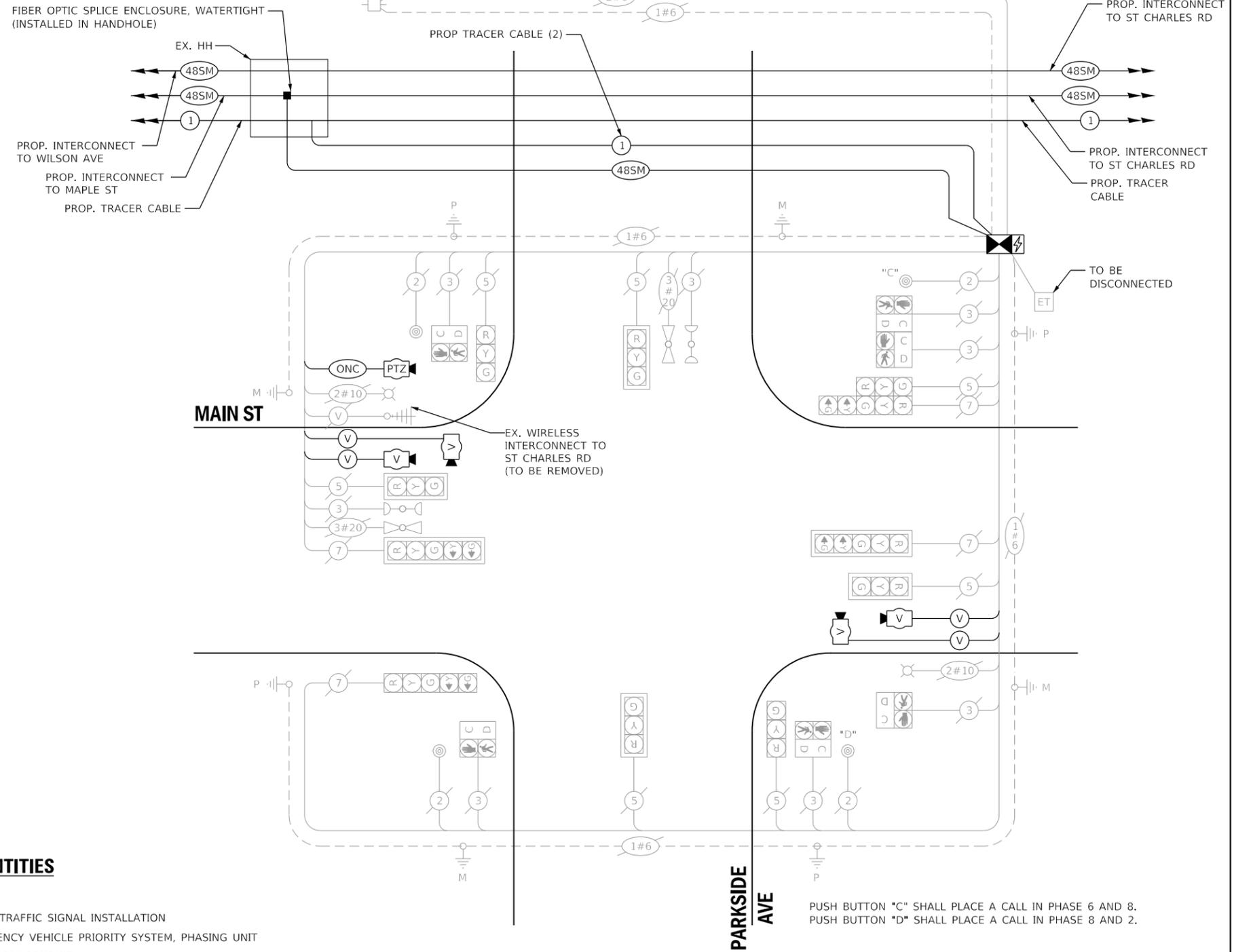
**VILLAGE OF LOMBARD**

255 E. WILSON AVE.  
LOMBARD, IL 60148-3926

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
480	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
147	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



**CABLE PLAN  
(NOT TO SCALE)**

PROP VIDEO DETECTION ZONES SHALL MATCH EXISTING VIDEO DETECTION ZONES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE VIDEO DETECTION SYSTEM, SPECIAL FOR THIS INTERSECTION SHALL BE AUTOSCOPE VISION TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8.  
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 8 AND 2.

**LOMBARD  
TS 10**



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE  
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4  
MAIN ST AND PARKSIDE AVE**

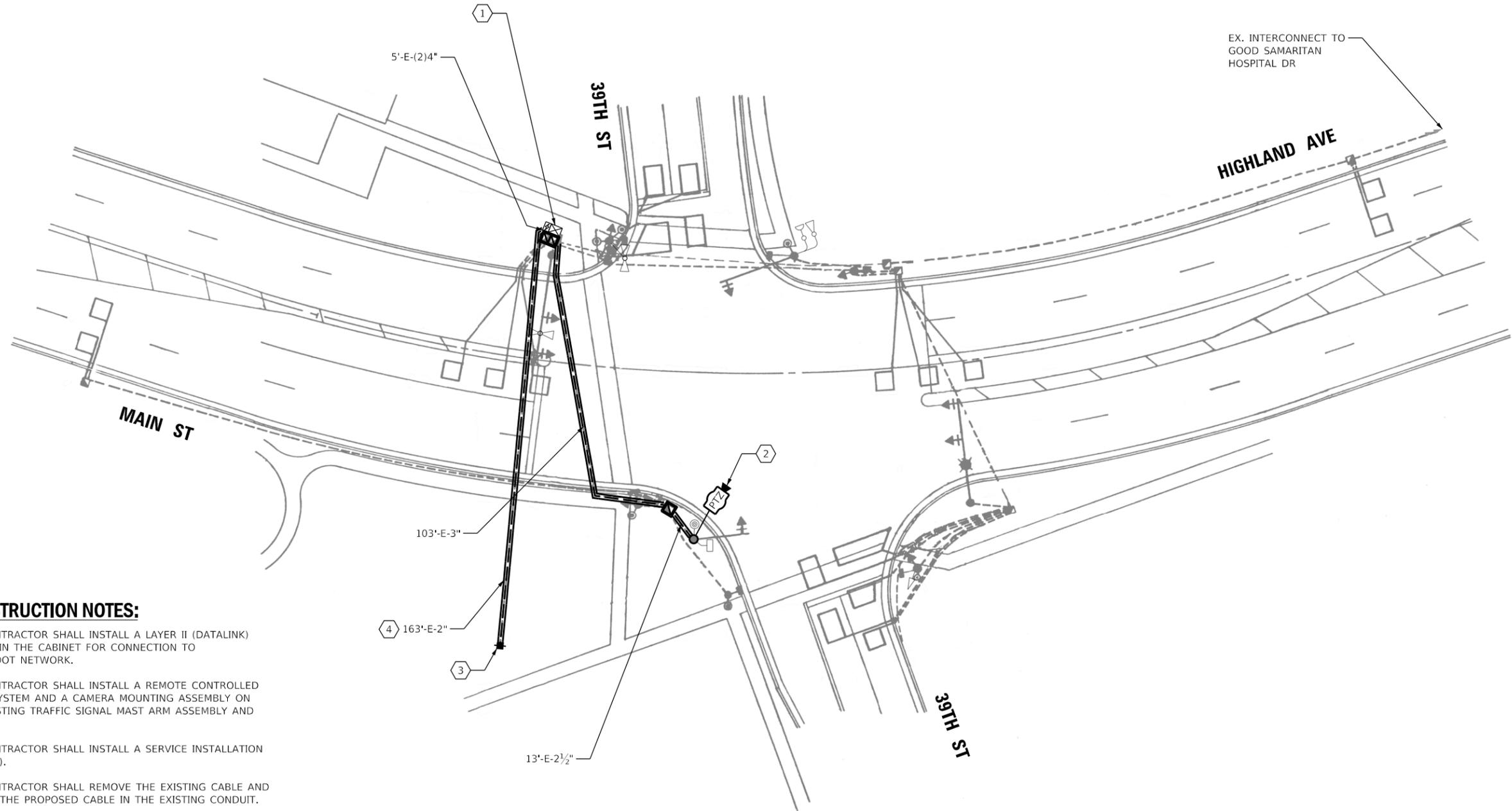
SCALE: SHEET 25 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	90
CONTRACT NO. 61H96			ILLINOIS FED. AID PROJECT	

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

1 EACH SERVICE INSTALLATION



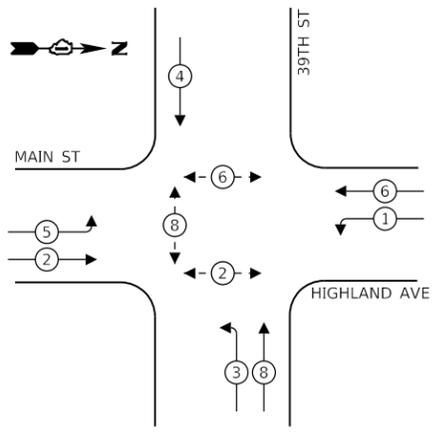
**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- ③ THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ④ THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.

**DUDOT**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 HIGHLAND AVE/MAIN ST AND 39TH ST	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -			VAR.	19-DCCSS-04-TL	DUPAGE	293	91
	PLOT DATE = 6/12/2022	DATE -	REVISED -	SCALE: 1"=20'		SHEET 26 OF 96 SHEETS		STA.	TO STA.	
FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT Central\CADD_Sheets\sh-4C-Highland-ts-plar.dgn Int 30						ILLINOIS FED. AID PROJECT CONTRACT NO. 61H96				

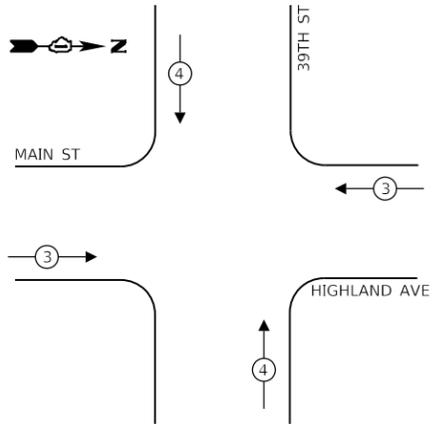
**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

- ← ⊛ → PROTECTED PHASE
- ← ⊛ - PROTECTED/PERMITTED PHASE
- ← ⊛ ⊢ PEDESTRIAN PHASE
- ← ⊛ ⊢ OL OVERLAP

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	250	50	125
PTZ CAMERA	1	75	100	75
TOTAL =				624

ENERGY COSTS TO:

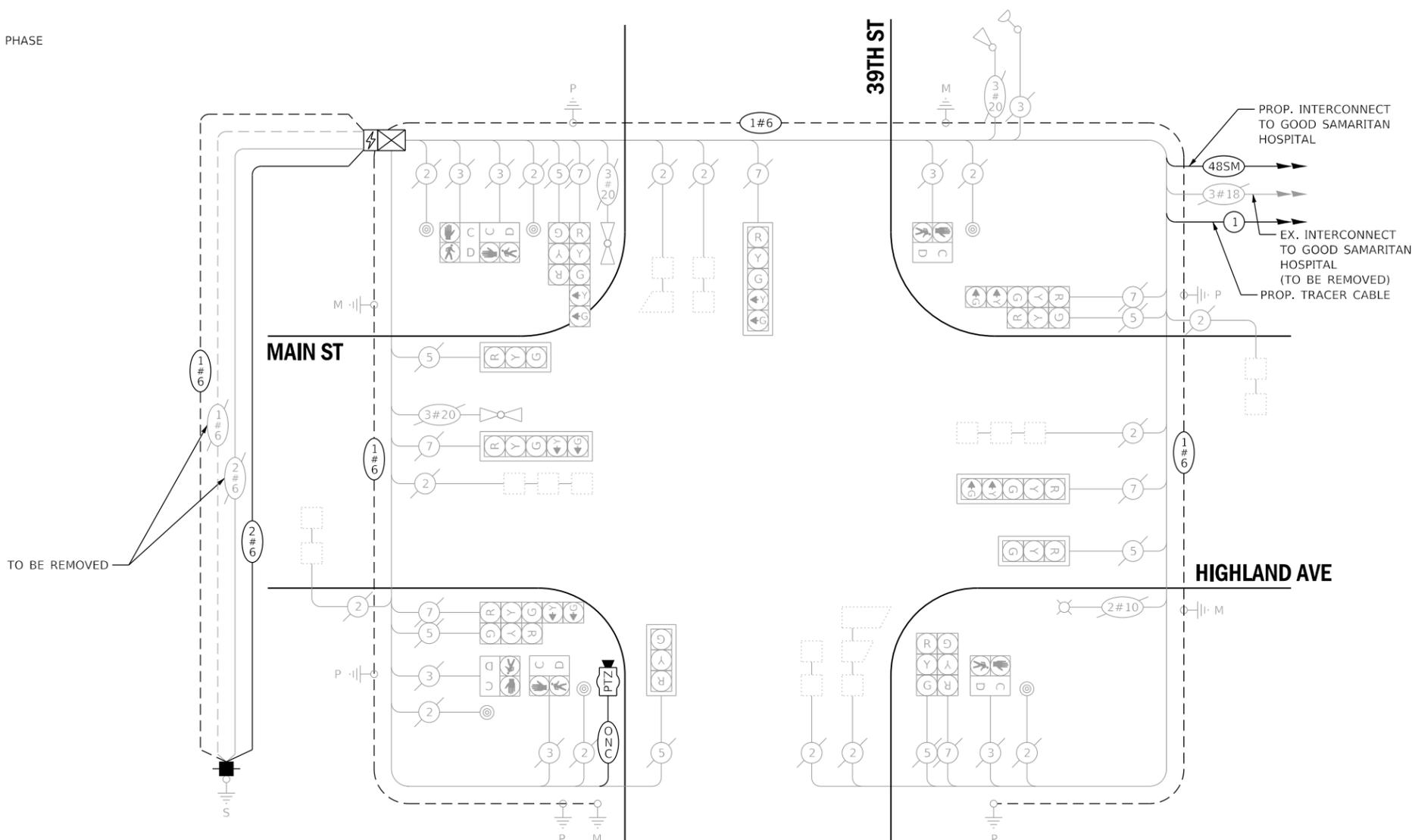
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
PHONE: (630)-424-5704  
COMPANY: COMED LOMBARD  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
183	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
326	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
163	FOOT	ROD AND CLEAN EXISTING CONDUIT
190	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	CAMERA MOUNTING ASSEMBLY, SPECIAL



**CABLE PLAN**  
(NOT TO SCALE)

**DLZ**  
USER NAME = dwiktorzak  
DESIGNED - ZH  
DRAWN - RG  
PLOT SCALE = 40.0000 "/in.  
CHECKED - DW  
PLOT DATE = 6/12/2022  
DATE -

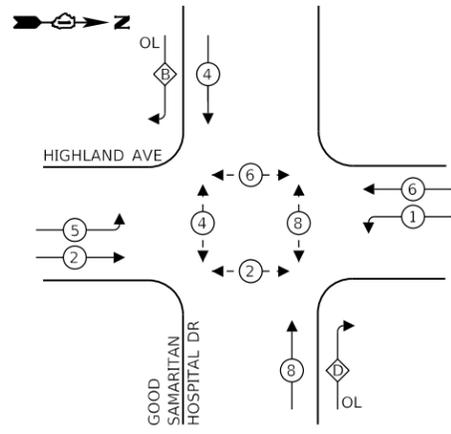
REVISIED -  
REVISIED -  
REVISIED -  
REVISIED -

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

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4**  
**HIGHLAND AVE AND 39TH ST**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	92
CONTRACT NO.			61H96	
ILLINOIS FED. AID PROJECT				

**EXISTING CONTROLLER SEQUENCE**



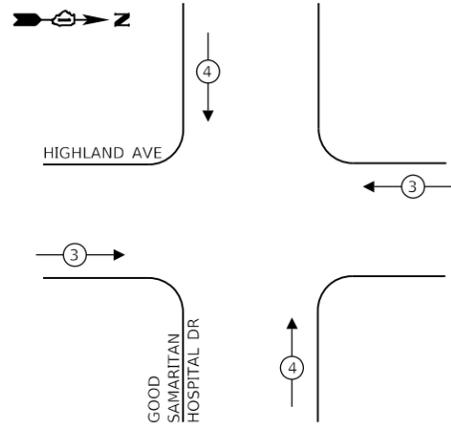
**LEGEND:**

- ⊛ — PROTECTED PHASE
- ⊞ — PROTECTED/PERMITTED PHASE
- ⊞ — PEDESTRIAN PHASE
- OL — OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
D	= 8	+ 1

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (13'-E-1 1/2").
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55
(YELLOW)	10	20	5	10
(GREEN)	10	12	45	54
PERMISSIVE ARROW	12	10	10	12
PED. SIGNAL	2	20	100	40
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				296

ENERGY COSTS TO:

**ADVOCATE HEALTH**

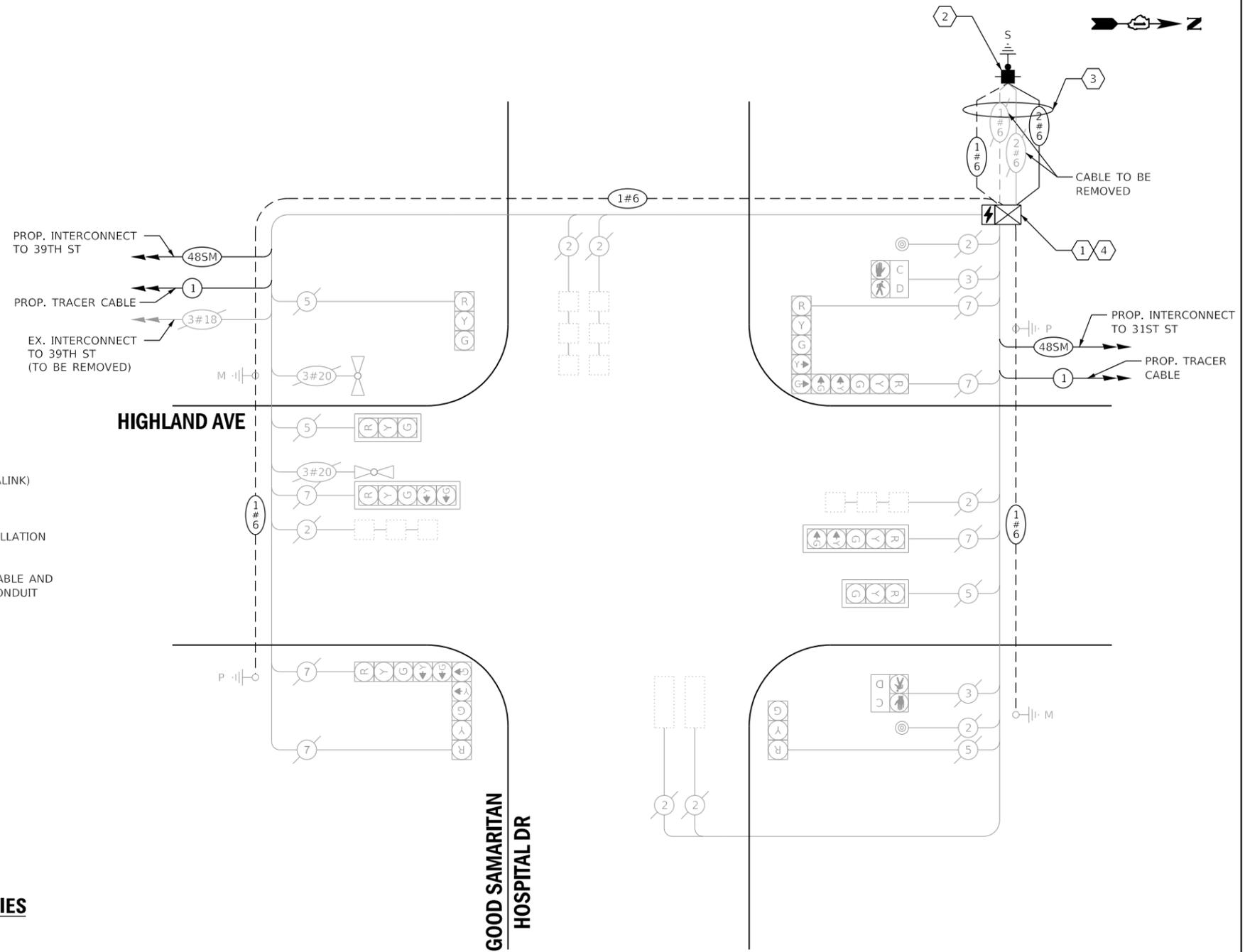
ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
 PHONE: (630)-424-5704  
 COMPANY: COMED LOMBARD  
 ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
33	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
26	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
13	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

HIGHLAND AVE

GOOD SAMARITAN HOSPITAL DR



**CABLE PLAN**  
(NOT TO SCALE)



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4  
HIGHLAND AVE AND GOOD SAMARITAN HOSPITAL DR

SCALE: 1"=20' SHEET 28 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	93
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

DUDOT

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CABINET (COMPLETE)
- 1 EACH SERVICE

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH CONTROLLER (ASC/2S-2100)
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)
- 1 EACH MODEM



31ST ST

HIGHLAND AVE

MATCHLINE A-A

31ST ST

**CONSTRUCTION NOTES:**

HIGHLAND AVE

- 1 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 6 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL.
- 7 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.

EX. INTERCONNECT TO HIGHLAND PKWY

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

**DUDOT**



USER NAME = dwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

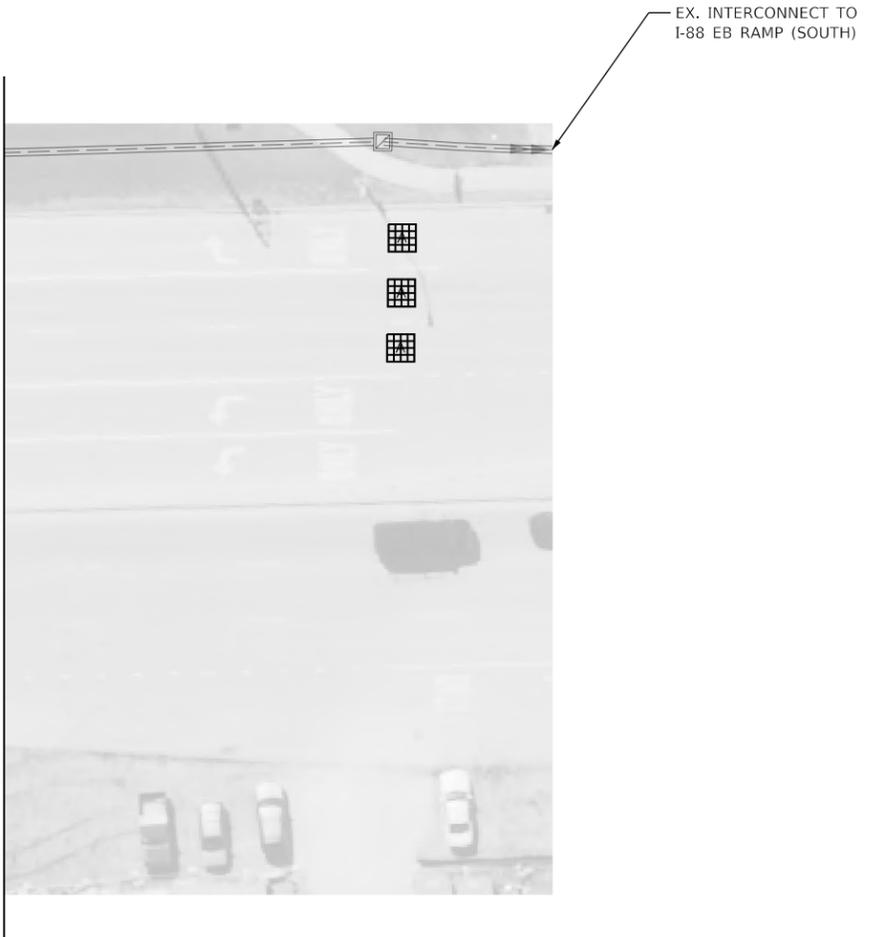
TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
HIGHLAND AVE AND 31ST ST

SCALE: 1"=20' SHEET 29 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	94
			CONTRACT NO.	61H96
		ILLINOIS	FED. AID PROJECT	



MATCHLINE A - A



EX. INTERCONNECT TO  
I-88 EB RAMP (SOUTH)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT  
FOR THIS PROJECT SHALL BE NTCIP  
(LATEST VERSION).

**DUDOT**



USER NAME = dwwiktorzak	DESIGNED - DW	REVISED -
	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 6/12/2022	DATE -	REVISED -

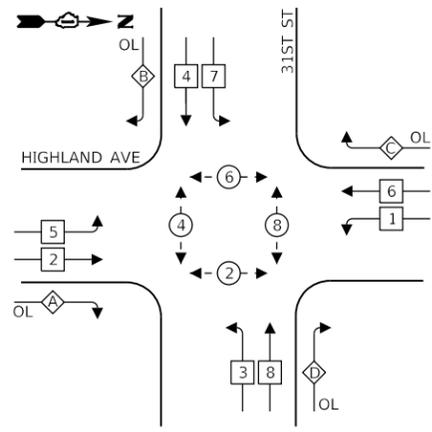
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4  
HIGHLAND AVE AND 31ST ST**

SCALE: SHEET 30 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	95
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H96	

**EXISTING CONTROLLER SEQUENCE**



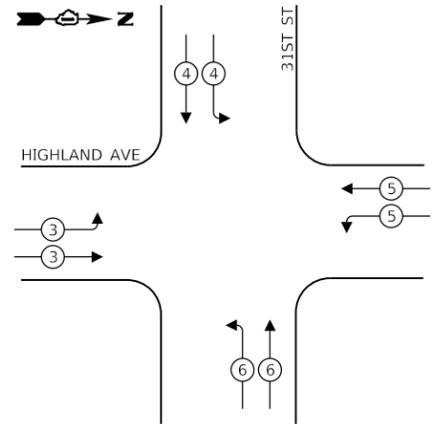
**LEGEND:**

- ⊙ — PROTECTED PHASE
- ⊛ — SINGLE ENTRY PHASE
- ⊙ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ OL — OVERLAP

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	11	50	105
(YELLOW)	19	20	5	19
(GREEN)	19	12	45	103
PERMISSIVE ARROW	24	10	10	24
PED. SIGNAL	12	20	100	240
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
<b>TOTAL =</b>				<b>1341</b>

ENERGY COSTS TO:

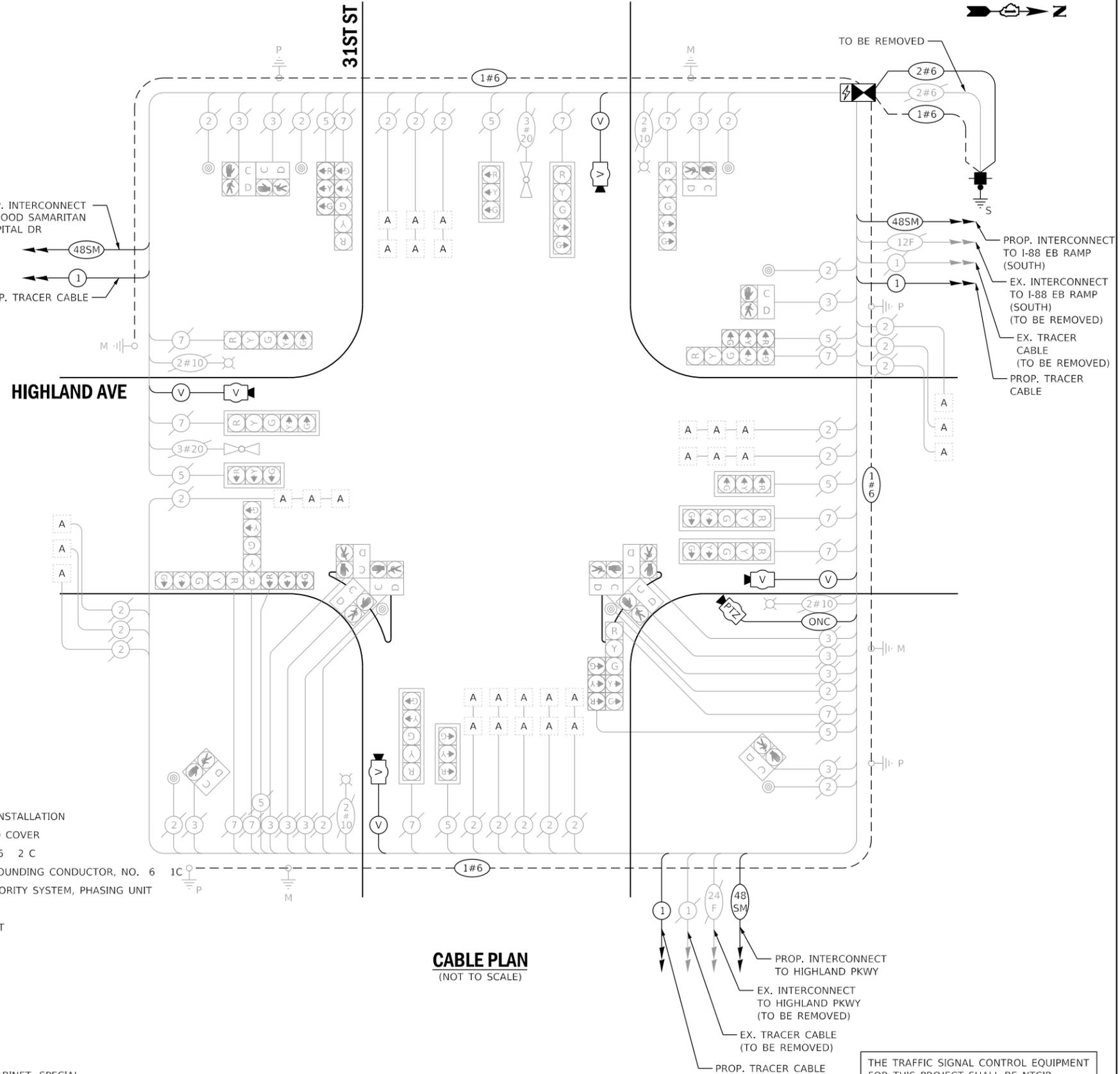
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN  
PHONE: (708)-235-2692  
COMPANY: COMED UNIVERSITY PARK  
ACCOUNT NUMBER: \_\_\_\_\_

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
58	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
3710	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
38	FOOT	ROD AND CLEAN EXISTING CONDUIT
211	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



**CABLE PLAN**  
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).



USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN - RG	REVISED -
PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4**  
**HIGHLAND AVE AND 31ST ST**

SCALE: 1"=20' SHEET 31 OF 96 SHEETS STA. TO STA.

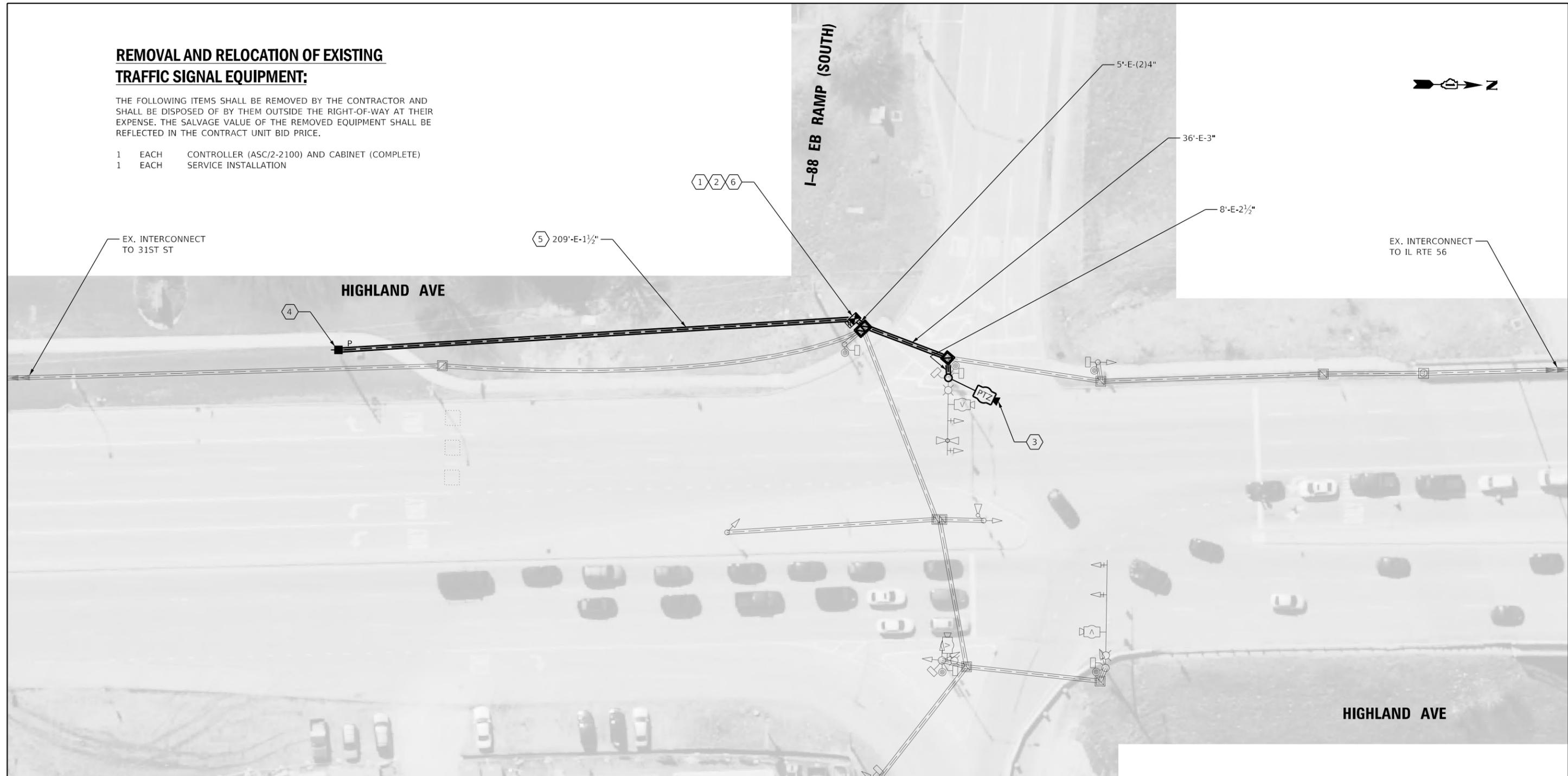
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	96
			CONTRACT NO. 61H96	
ILLINOIS FED. AID PROJECT				

**DUDOT**

**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CONTROLLER (ASC/2-2100) AND CABINET (COMPLETE)
- 1 EACH SERVICE INSTALLATION



**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT, AND VIDEO DETECTION SYSTEM.
- 3 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 6 THE CONTRACTOR SHALL RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM.

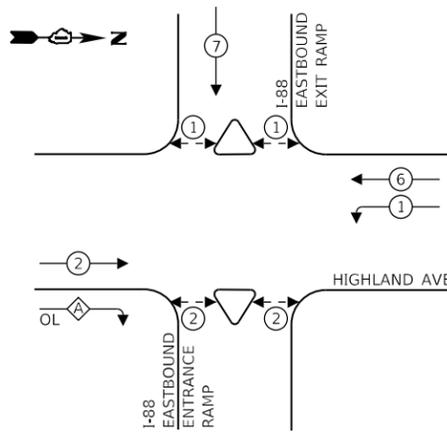
EX. VIDEO/RADAR DETECTION ZONES SHALL REMAIN IN USE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

**DUDOT**

	USER NAME = dwiktorzak	DESIGNED - DW	REVISED -	<p align="center"><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>TRAFFIC SIGNAL MODERNIZATION PLAN - AREA 4 HIGHLAND AVE AND I-88 EB RAMP (SOUTH)</b></p>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 32	OF 96	SHEETS	STA.	TO STA.	VAR.	19-DCCSS-04-TL	DUPAGE
PLOT DATE = 6/12/2022	DATE -	REVISED -											CONTRACT NO. 61H96
										ILLINOIS	FED. AID PROJECT		

**EXISTING CONTROLLER SEQUENCE**



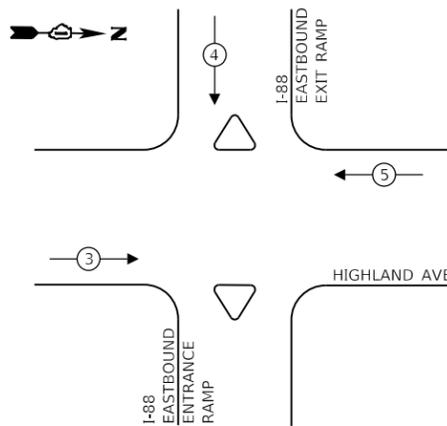
**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 7

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	14	12	45	76
PERMISSIVE ARROW	8	10	10	8
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	1	150	100	150
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375
PTZ CAMERA	1	75	100	75
TOTAL =				1047

ENERGY COSTS TO:

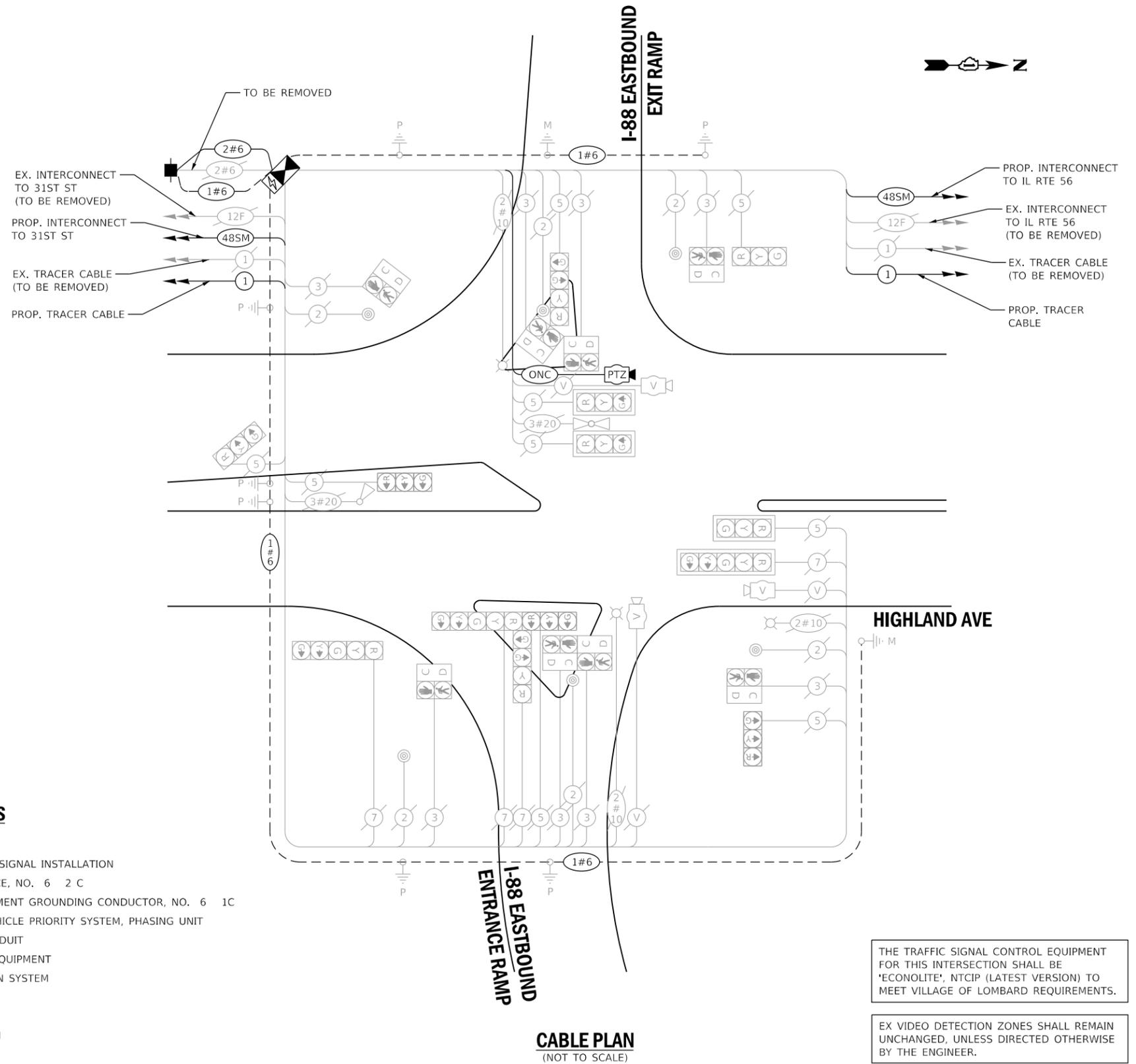
**DUPAGE COUNTY D.O.T.**

421 N. COUNTY FARM RD.  
WHEATON, IL 60187

ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN  
PHONE: (708)-235-2692  
COMPANY: COMED UNIVERSITY PARK  
ACCOUNT NUMBER:

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
229	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
229	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
418	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	RELOCATE VIDEO VEHICLE DETECTION SYSTEM
209	FOOT	ROD AND CLEAN EXISTING CONDUIT
123	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM



**CABLE PLAN**  
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MEET VILLAGE OF LOMBARD REQUIREMENTS.

EX VIDEO DETECTION ZONES SHALL REMAIN UNCHANGED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

<b>DLZ</b>	USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
	PLOT SCALE = 40,0000' / in.	DRAWN - RG	REVISED -
	PLOT DATE = 6/12/2022	CHECKED - DW	REVISED -
		DATE -	REVISED -

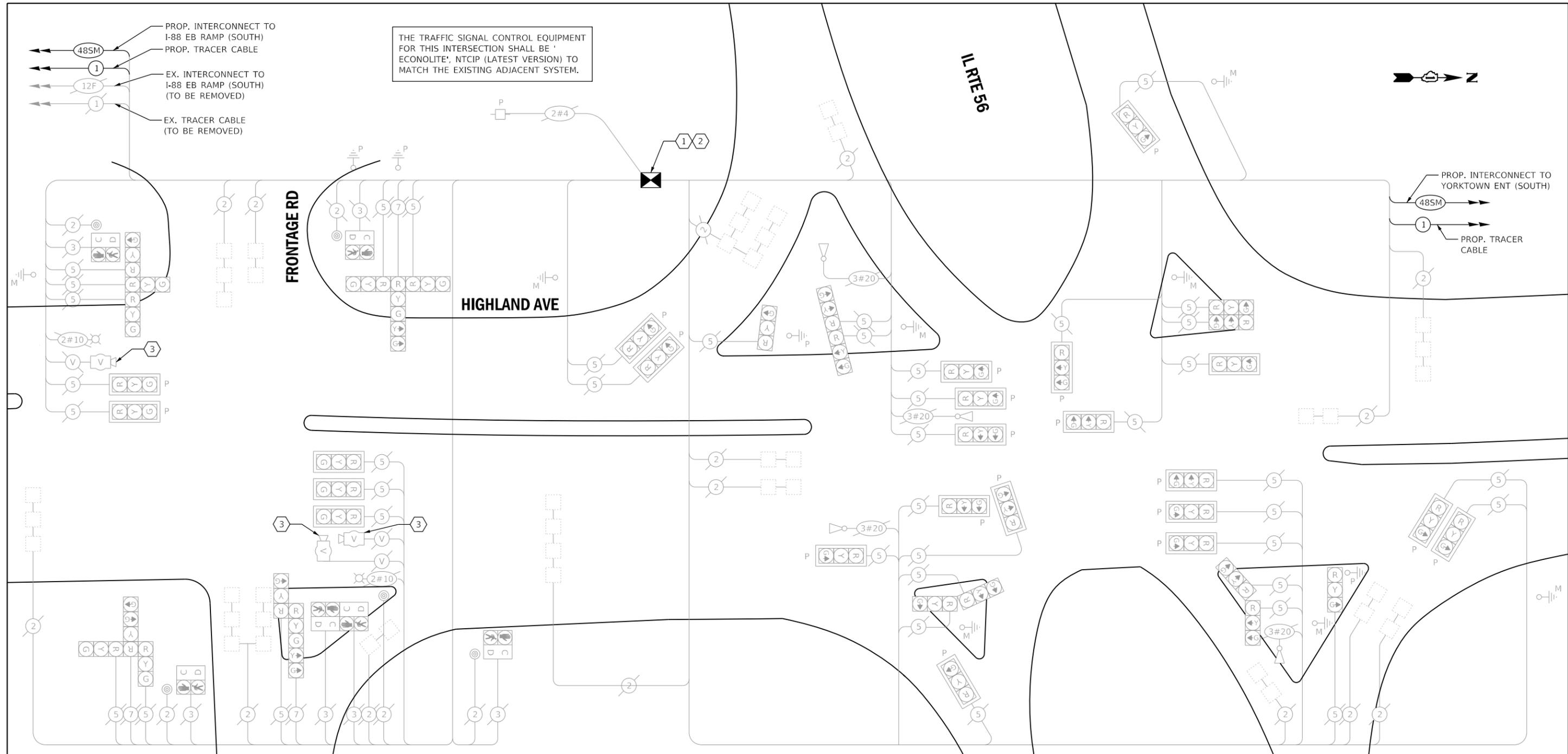
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4**  
**HIGHLAND AVE AND I-88**

SCALE: 1"=20' SHEET 33 OF 96 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-04-TL	DUPAGE	293	98
				CONTRACT NO. 61H96
ILLINOIS FED. AID PROJECT				

**DUDOT**



**REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:**

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

- 1 EACH CONTROLLER (ASC/2-2100) AND CABINET (COMPLETE)

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

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 3 EACH VIDEO DETECTION CAMERA

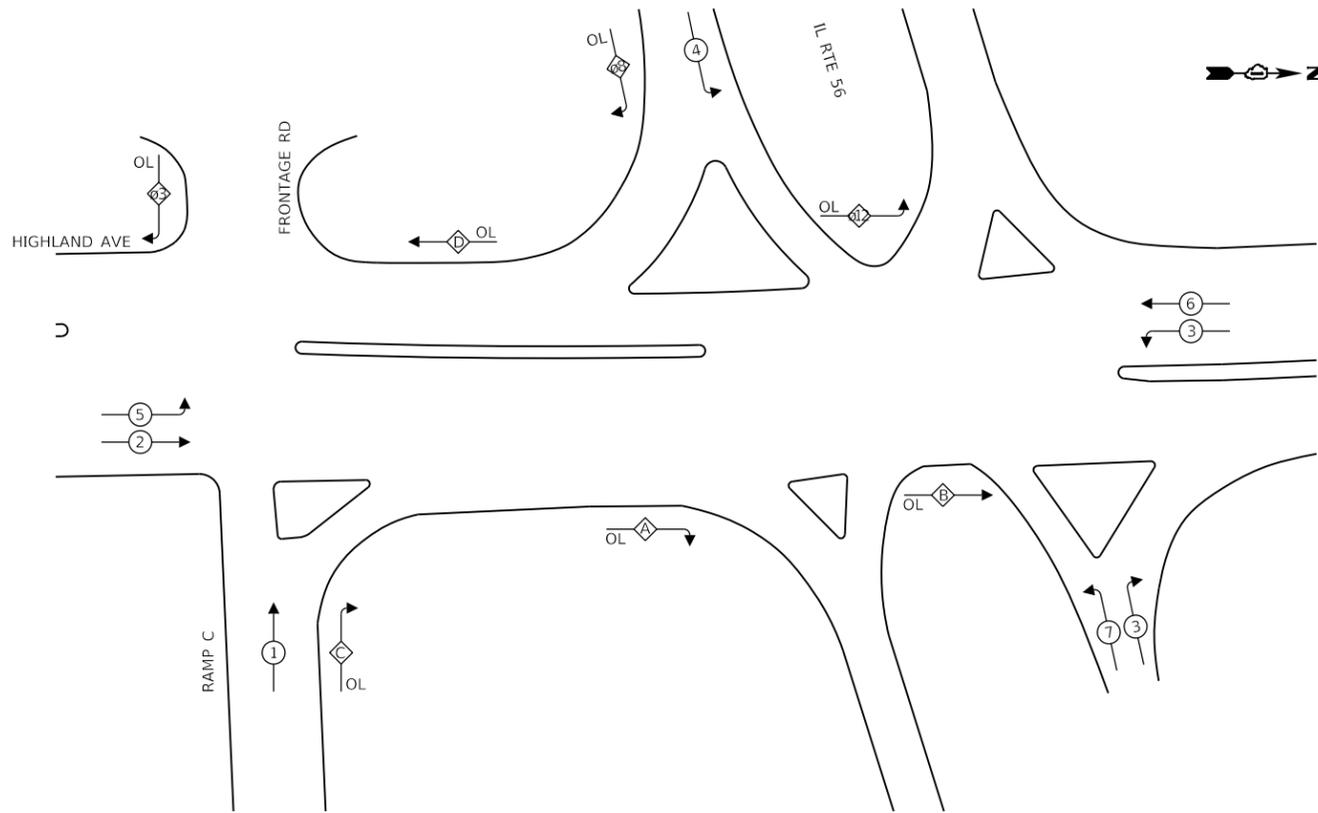
**CONSTRUCTION NOTES:**

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. REINSTALL THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT.
- 3 THE CONTRACTOR SHALL REMOVE THE EXISTING VEHICLE DETECTION SYSTEM.

**IDOT  
TS 6280**

	USER NAME = rgeorgescu	DESIGNED - ZH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CABLE PLAN, PHASE DESIGNATION, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES - AREA 4 HIGHLAND AVE AND IL RTE 56</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000' / in.	DRAWN - RG	REVISED -			VAR.	19-DCCSS-04-TL	DUPAGE	293	99
PLOT DATE = 6/14/2022	CHECKED - DW	REVISED -	SCALE: SHEET 34 OF 96 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		CONTRACT NO. 61H96		
	DATE -	REVISED -								

**EXISTING CONTROLLER SEQUENCE**



**LEGEND:**

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

**RIGHT TURN OVERLAP PHASE DESIGNATION:**

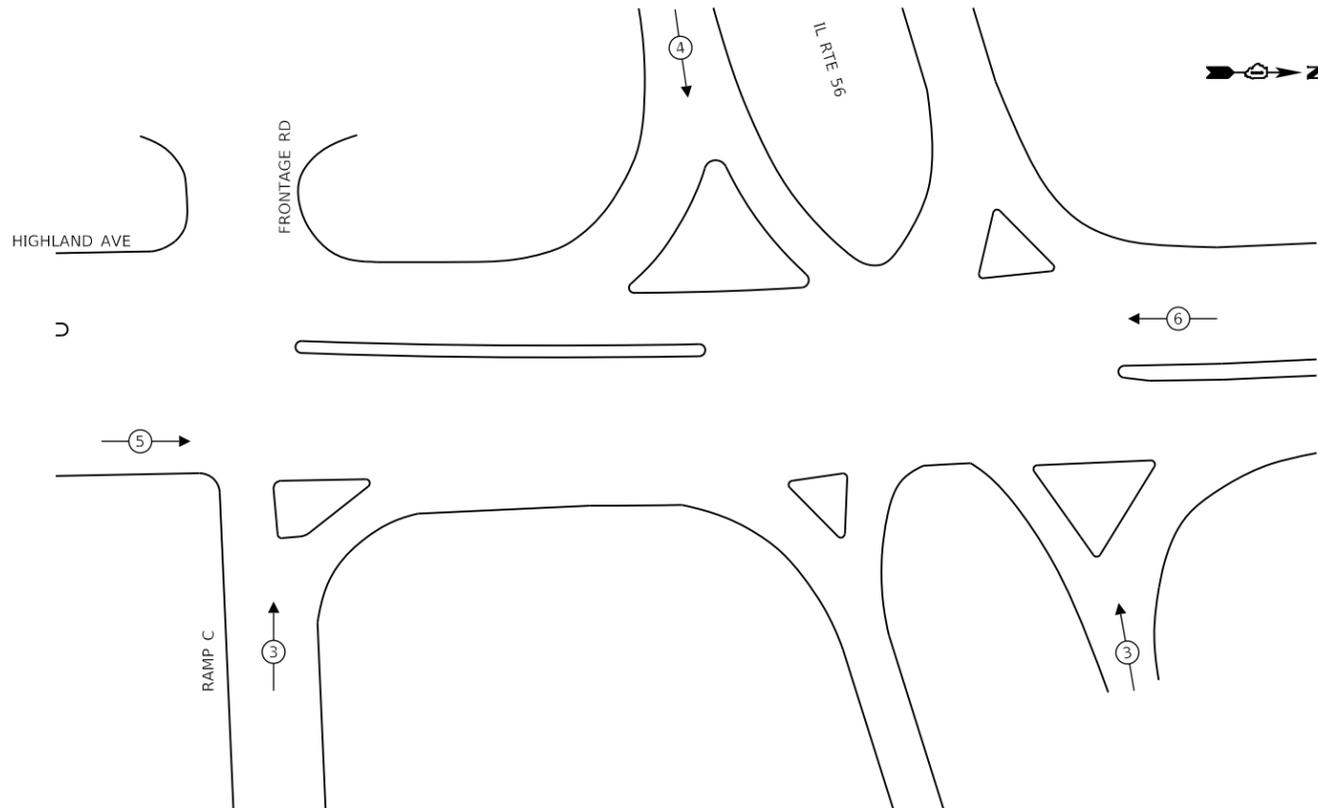
OL A	=	1	+	2	+	4	+	5
OL B	=	1	+	2	+	5		
OL C	=	1	+	4	-	1G		
OL D	=	2	+	4				
OL ø3	=	3						
OL ø8	=	1	+	3	+	5	+	8
OL øD	=	1	+	5				

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	44	11	50	242
(YELLOW)	44	20	5	44
(GREEN)	45	12	45	243
PERMISSIVE ARROW	4	10	10	4
PED. SIGNAL	6	20	100	120
CONTROLLER	1	100	100	100
UPS	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
<b>TOTAL =</b>				<b>1003</b>

ENERGY COSTS TO:  
**VILLAGE OF LOMBARD**  
 255 E. WILSON AVE  
 LOMBARD, ILLINOIS 60148-3926  
 ENERGY SUPPLY: CONTACT: MR. JOE STACHO  
 PHONE: (630)-424-5704  
 COMPANY: COMED LOMBARD  
 ACCOUNT NUMBER: 11831-41069 & 05462-35009

**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
15	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
774	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS INTERSECTION SHALL BE 'ECONOLITE', NTCIP (LATEST VERSION) TO MATCH THE EXISTING ADJACENT SYSTEM.

**IDOT TS 6280**

FILE NAME = X:\Projects\2021\2182\217400 DuPage DOT CentralCADD\_Sheets\sh4C-Highland-ts-Cable.dgn  
 Int 33