

11-05-2021 LETTING ITEM 002

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F A RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
VAR	19 DCCSS 03 TL	DUPAGE	307	1
		ILLINOIS	CONTRACT NO 61H22	

FOR INDEX OF SHEETS, SEE SHEET NO. 2-3
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 5 - 10

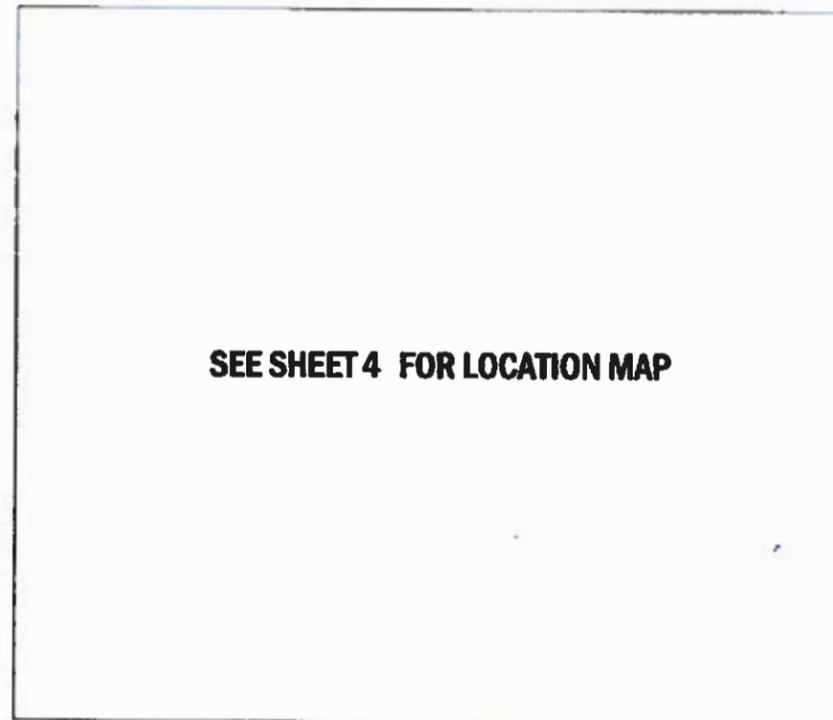
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

VARIOUS ROUTES, VARIOUS LOCATIONS
SECTION NO. 19-DCCSS-03-TL
PROJECT NO. IDLD(702)
CENTRAL SIGNAL SYSTEM EXPANSION 3
DuPAGE COUNTY

C-91-220-21



THIS PROJECT IS LOCATED IN:
THE CITIES OF AURORA, DARIEN, NAPERVILLE, AND WHEATON
AND THE VILLAGES OF BARTLETT, BLOOMINGDALE,
CAROL STREAM, CLARENDON HILLS, DOWNERS GROVE,
GLENDALE HEIGHTS, HANOVER PARK, HINSDALE, LENONT,
LISLE, ROSELLE, WESTMONT, WILLOWBROOK, WINFIELD,
AND WOODRIDGE



WAYNE, BLOOMINGDALE, MILTON, NAPERVILLE, LISLE
AND DOWNERS GROVE TOWNSHIPS

LOCATION MAP
NO SCALE

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



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

CONTRACT NO. 61H22

DLZ



Duane L. Ziegler
SIGNATURE
7-26-21
DATE
11-30-21
EXPRES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>Christopher Snyder</i> 7/27/21 DATE
DUPAGE COUNTY DIVISION OF TRANSPORTATION DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER	
PASSED	<i>Aug 30, 2021</i> <i>C. Rinder</i> DATE DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>August 30, 2021</i> <i>Jose Rios</i> RRB DATE REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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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
701501-05	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
878001-11	CONCRETE FOUNDATION DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
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
878001-11	CONCRETE FOUNDATION DETAILS

GENERAL NOTES

- THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". APRIL 1, 2016; 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 NAPERVILLE, DARIEN, WHEATON, AND WARRENVILLE; THE VILLAGES OF CAROL STREAM, DOWNERS GROVE, WOODRIDGE, AND LISLE; 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.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 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.
- THE QUANTITY FOR TEMPORARY INFORMATION SIGNING IS FOR USE WITH DISTRICT DETAIL ARTERIAL ROAD INFORMATION SIGN (TC-22). ONE SIGN IS TO BE USED FOR EACH END OF EACH INTERCONNECT CORRIDOR.
- 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.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES AND COMMITMENTS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	2
CONTRACT NO.			307	61H22
ILLINOIS		FED. AID PROJECT		

A	SHEET	PLAINFIELD ROAD CORRIDOR INTERSECTIONS
	19	PLAINFIELD RD AND FAIRMOUNT AVE
	20	PLAINFIELD RD AND MANNING DR
	21 - 23	PLAINFIELD RD AND 75TH ST
	24	PLAINFIELD RD AND FIRE STATION ENT
	25 - 27	PLAINFIELD RD AND CLARENDON HILLS RD
	28	PLAINFIELD RD AND HIGH RD

B	SHEET	63RD STREET CORRIDOR INTERSECTIONS
	29 - 30	HOBSON RD AND WOODRIDGE DR
	31	63RD ST AND I-355 SB RAMPS
	32 - 33	63RD ST AND I-355 NB RAMPS
	34	63RD ST AND LEONARD AVE/WESTWOOD SC
	35 - 36	63rd AND BELMONT RD
	37	63RD ST AND WOODWARD AVE
	38	63RD AND SPRINGSIDE AVE
	39 - 40	63RD ST AND DUNHAM RD
	41 - 42	63RD ST AND MAIN ST
	43	63RD ST AND FAIRVIEW AVE
	44	63RD ST AND WILLIAM ST
	45	63RD ST AND SUFFIELD CT/MARIANO'S ENT
	46 - 47	63RD ST AND CASS AVE
	48	63RD ST AND RIDGE RD

C	SHEET	CHICAGO AVENUE/MAPLE AVENUE/55TH STREET CORRIDOR INTERSECTIONS
	49 - 50	CHICAGO AVE AND CHARLES AVE
	51	CHICAGO AVE AND OLESEN DR
	52 - 53	CHICAGO AVE/MAPLE AVE AND NAPER BLVD
	54	MAPLE AVE AND STEEPLE RUN DR/BENEDICTINE PKWY
	55	MAPLE AVE AND IBU ENT/BENEDICTINE ACADEMY ENT
	56 - 57	MAPLE AVE AND YACKLEY AVE/COLLEGE RD
	58 - 60	MAPLE AVE AND BURR OAK RD
	61 - 62	MAPLE AVE AND PATTON DR/LAKE DR
	63	MAPLE AVE AND PRIMROSE AVE
	64	MAPLE AVE AND I-355 SB RAMPS
	65 - 66	MAPLE AVE AND I-355 NB RAMPS
	67	MAPLE AVE AND WALNUT AVE
	68 - 69	MAPLE AVE AND BELMONT RD
	70	MAPLET AVE/55TH ST AND DUNHAM RD/MAPLE AVE
	71 - 72	55TH ST AND MAIN ST
	73 - 74	55TH ST AND FAIRVIEW AVE
	75 - 76	55TH ST AND CASS AVE
	77	55TH ST AND CLARENDON HILLS RD
	78 - 79	55TH ST AND HOLMES AVE
	80 - 81	55TH ST AND IL 83 SB RAMPS
	82	55TH ST AND IL 83 NB RAMPS
	83 - 84	55TH ST AND MADISON ST
	85 - 86	55TH ST AND GRANT ST
	87	55TH ST AND GARFIELD AVE
	88 - 89	55TH ST AND COUNTY LINE RD

D	SHEET	JEWELL ROAD CORRIDOR INTERSECTIONS
	90	COUNTY FARM RD AND JEWELL RD
	91 - 92	JEWELL RD AND PLEASANT HILL RD
	93 - 94	GARY AVE AND JEWELL RD
	95	GARY AVE AND THOMAS RD
	96	GARY AVE AND GENEVA RD

E	SHEET	ARMY TRAIL ROAD CORRIDOR INTERSECTIONS
	97 - 98	ARMY TRAIL RD AND PETERSDORF RD
	99	ARMY TRAIL RD AND GERBER RD
	100	ARMY TRAIL RD AND FAIR OAKS RD
	101 - 102	ARMY TRAIL RD AND SPRING VALLEY DR
	103	ARMY TRAIL RD AND WOODLAKE DR
	104 - 105	ARMY TRAIL RD AND COUNTY FARM RD
	106	ARMY TRAIL RD AND CLIPPER DR
	107 - 108	ARMY TRAIL RD AND KUHN RD/MADSEN DR
	109	ARMY TRAIL RD AND MERBACH DR

F	SHEET	SCHICK ROAD CORRIDOR INTERSECTIONS
	110	SCHICK RD AND MALLARD LN
	111 - 112	SCHICK RD AND THORN RD

G	SHEET	EOLA ROAD CORRIDOR INTERSECTIONS
	113 - 114	EOLA RD AND LIBERTY ST
	115	EOLA RD AND JEWEL ENT/SHEFFER RD
	116 - 117	EOLA RD AND AURORA RD/INDIAN TRAIL RD
	118	EOLA RD AND STONEBRIDGE BLVD/HAVERHILL DR
	119 - 120	EOLA RD AND MOLITOR RD/METEA HS S ENT
	121	EOLA RD AND MUSTANG WAY
	122 - 124	EOLA RD AND DIEHL RD
	125 - 127	EOLA RD AND FERRY RD/BILTER RD
	128	AURORA AVE AND PENSURRY LN (FOR INFORMATION ONLY)
	129	DIEHL RD AND I-88 EB RAMPS
	130	BILTER RD AND I-88 WB RAMPS

H	SHEET	IL ROUTE 59 CORRIDOR INTERSECTIONS
	131	IL RTE 59 AND 75TH ST

I	SHEET	COUNTY FARM ROAD CORRIDOR INTERSECTIONS
	132	COUNTY FARM RD AND BIRCHBARK TR
	133 - 134	COUNTY FARM RD AND LIES RD
	135	COUNTY FARM RD AND KELLY DR
	136 - 137	COUNTY FARM RD AND SCHICK RD

J	SHEET	GARY AVENUE CORRIDOR INTERSECTIONS
	138	GARY AVE AND SCHICK RD
	139	GARY AVE AND GLENWOOD DR
	140 - 141	GARY AVENUE AND LAWRENCE AVE
	142 - 143	GARY AVE AND CENTRAL AVE
	144 - 145	GARY AVE AND TRAVIS PKWY

K	SHEET	WEHRLI ROAD/COLLEGE ROAD/YACKLEY AVENUE CORRIDOR INTERSECTIONS
	146 - 147	WEHRLI RD AND 75TH ST
	148 - 149	WEHRLI RD/COLLEGE RD AND HOBSON RD
	150 - 151	COLLEGE RD AND GREEN TRAILS DR
	152 - 153	COLLEGE RD AND ABBEYWOOD DR
	154	COLLEGE RD AND IBU ENT
	155	YACKLEY AVE AND OHIO ST

L	SHEET	BLOOMINGDALE ROAD CORRIDOR INTERSECTIONS
	156 - 157	BLOOMINGDALE RD AND ARMY TRAIL RD
	158 - 159	BLOOMINGDALE RD AND GREENWAY DR
	160	BLOOMINGDALE RD AND EDGEWATER DR
	161	BLOOMINGDALE RD AND FAIRFIELD WAY
	162 - 163	BLOOMINGDALE RD AND SCHICK RD

M	SHEET	BELMONT ROAD CORRIDOR INTERSECTIONS
	164	BELMONT RD AND HOBSON RD/59TH ST
	165 - 166	BELMONT RD AND CURTISS ST
	167	BELMONT RD AND HADDOW AVE
	168 - 169	BELMONT RD AND PRAIRIE AVE

N	SHEET	LEMONT ROAD/MAIN STREET CORRIDOR INTERSECTIONS
	170	LEMONT RD AND DAVEY RD
	171 - 172	LEMONT RD AND INTERNATIONALE PKWY
	173	LEMONT RD AND 101ST ST
	174 - 175	LEMONT RD AND WESTGATE RD/97TH ST
	176	LEMONT RD AND FRONTAGE RD/CHEESE RD AND TIMBER TRAILS RD
	177 - 179	LEMONT RD AND 87TH ST
	180 - 181	LEMONT RD AND 83RD ST
	182	LEMONT RD AND DUNHAM RD/SC
	183	MAIN ST AND 67TH ST
	184 - 185	MAIN ST AND 59TH ST

O	SHEET	CASS AVENUE CORRIDOR INTERSECTIONS
	186 - 187	CASS AVE AND 67TH ST
	188 - 189	CASS AVE AND 65TH ST
	190	CASS AVE AND 59TH ST

A - SUMMARY OF QUANTITIES HEADER AND CORRIDOR KEY

SEE NEXT SHEET FOR MAP OF CORRIDORS AND INTERCONNECT AREAS.



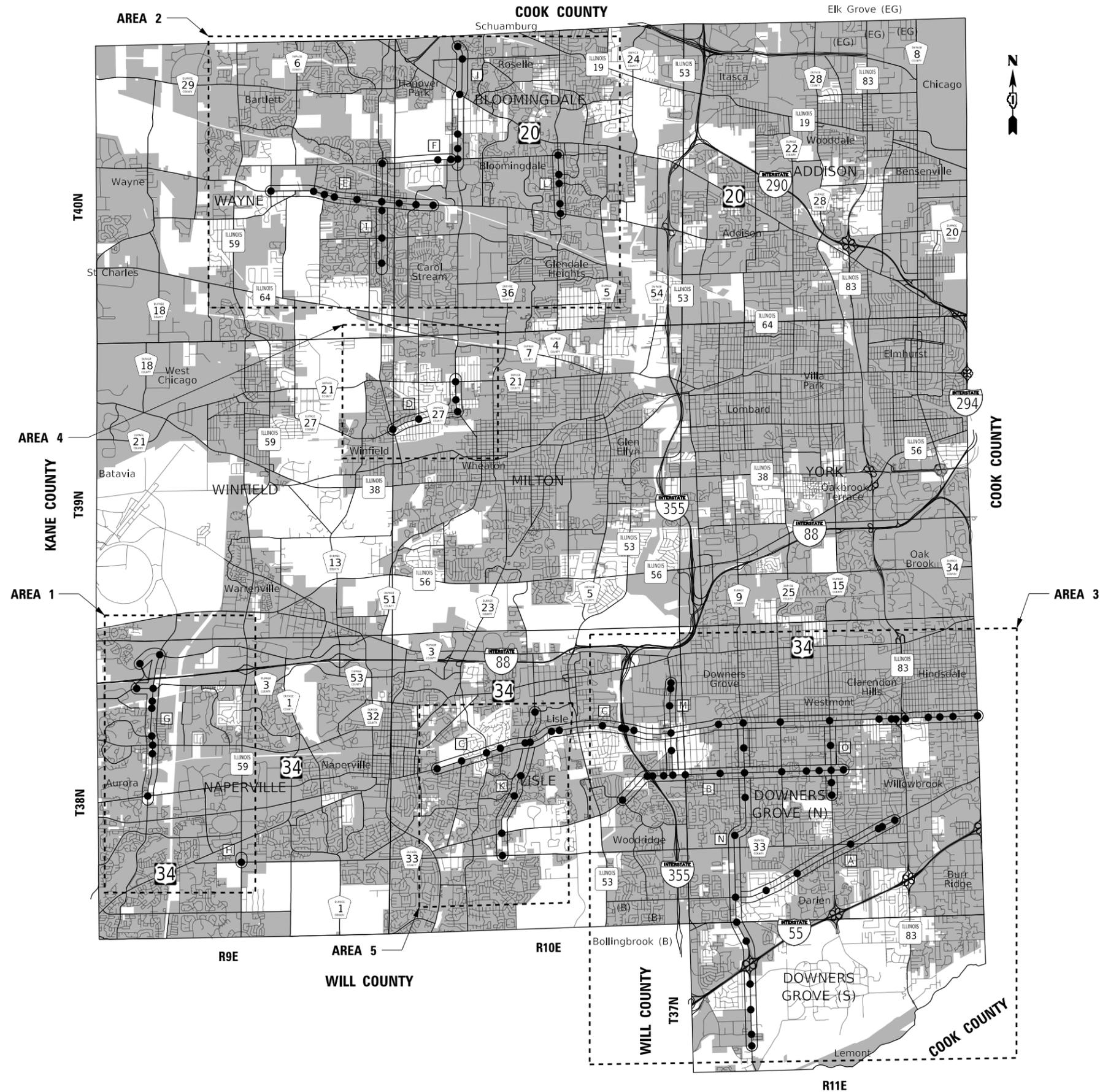
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
GENERAL NOTES AND COMMITMENTS**

SCALE: NTS	SHEET 2	OF 2	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	3
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	



LEGEND

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

CORRIDOR KEY

-   PLAINFIELD ROAD CORRIDOR INTERSECTIONS
-    63RD STREET CORRIDOR INTERSECTIONS
-    CHICAGO AVENUE/MAPLE AVENUE/55TH STREET CORRIDOR INTERSECTIONS
-    JEWELL ROAD CORRIDOR INTERSECTIONS
-   ARMY TRAIL ROAD CORRIDOR INTERSECTIONS
-   SCHICK ROAD CORRIDOR INTERSECTIONS
-   EOLA ROAD CORRIDOR INTERSECTIONS
-   IL ROUTE 59 CORRIDOR INTERSECTIONS
-   COUNTY FARM ROAD CORRIDOR INTERSECTIONS
-   GARY AVENUE CORRIDOR INTERSECTIONS
-   WEHRLI ROAD/COLLEGE ROAD/YACKLEY AVENUE CORRIDOR INTERSECTIONS
-   BLOOMINGDALE ROAD CORRIDOR INTERSECTIONS
-   BELMONT ROAD CORRIDOR INTERSECTIONS
-   LEMONT ROAD/MAIN STREET CORRIDOR INTERSECTIONS
-   CASS AVENUE CORRIDOR INTERSECTIONS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP
DUPAGE COUNTY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	4
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

* - SPECIALITY ITEM

80% FEDERAL / 20% DUPAGE COUNTY

CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
				TRAFFIC SIGNAL																
				0021																
				URBAN																
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	89.0																	89
* 66900210	HAZARDOUS WASTE DISPOSAL	CU YD	3																	3
* 66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GALLON	2231																	2231
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	8																	8
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1																	1
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1																	1
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	17																	17
67100100	MOBILIZATION	L SUM	1																	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1																	1
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1																	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1																	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1																	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1																	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1																	1



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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80% FEDERAL / 20% DUPAGE COUNTY

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				TRAFFIC SIGNAL																
				0021																
				URBAN																
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1																	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	190			145												45		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	369																	369
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	98047																	98047.0
81400100	HANDHOLE	EACH	146																	146
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	120	6	14	25	5	9	2	10	1	4	5	6	5	4	10	3	11	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3																	3
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	221	16	43	60	4	14		7		19	8	8	8	4	15	15		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	233125																	233125
87301800	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	420		420															
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	2900	265	390	775	110	205		275			165	80	30		420	185		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	33260	2250	6750	9000	785	2285		870		2250	780	1500	1500	750	2290	2250		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12	4		4													4	
87900100	DRILL EXISTING FOUNDATION	EACH	2			2														



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	6
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

* - SPECIALITY ITEM

80% FEDERAL / 20% DUPAGE COUNTY

CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
				TRAFFIC SIGNAL																
				0021																
				URBAN																
87900200	DRILL EXISTING HANDHOLE	EACH	101																	101
88500100	INDUCTIVE LOOP DETECTOR	EACH	129	20	26	46	6	8				6			7				10	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	19	2	3	7	1	1				1		1	2				1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	190743	7079	3721	17461	1870	5546	4098	12617		3552	2566	8623	6184			2912	183	114331
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	71	4	13	14	2	6	2	8		1	3	2	5	2	6		3	
89502380	REMOVE EXISTING HANDHOLE	EACH	50	3		9	1	5		6		5	3	7	1			1		9
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	85739	120	668	498	68	143		216			124	38	11			340	74	83439
X0326104	RELOCATE RADAR DETECTOR SYSTEM	EACH	1									1								
X0326255	APPLICATION SERVER	EACH	1																	1
X0326256	WEB SERVER	EACH	1																	1
X0326955	REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICE	EACH	1	1																
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	9195	190	1135	1995	190	1395		1165		355	530	715	135	320	780		290	
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	6			1		1					1	1						2
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	12		3	3		1		1			1		2			1		



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	7
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

* - SPECIALITY ITEM

80% FEDERAL / 20% DUPAGE COUNTY

CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	80% FEDERAL / 20% DUPAGE COUNTY															
				A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
				TRAFFIC SIGNAL															
				0021															
URBAN																			
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	2			2													
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	17	2	3	1	3		1	1				2		1	3		
X1400335	WIRELESS TRANSMISSION SYSTEM POINT TO POINT	EACH	2					2											
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	29	2	7	5	2	2		3			1	1	1		4	1	
X8100105	CONDUIT SPLICE	EACH	1															1	
X8100863	INTERCEPT EXISTING CONDUIT	EACH	3	1														2	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	29	2	6	2	1	5	2	2			2		2	1	3	1	
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	19	2	3	7	1	1				1		1	2			1	
X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	2			1												1	
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2														2		
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	70	4	9	16	3	8	2	7		3	2	5	2	1	6	2	
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	235780															235780	
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	86	3	11	18	3	8	2	10		3	5	5	3	4	9	2	
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	104649															104649	

	USER NAME = zhoerbert	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -						VAR.	19-DCC55-03-TL	DUPAGE	307	8
	PLOT DATE = 8/2/2021	CHECKED -	REVISED -		SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.				CONTRACT NO. 61H22				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

* - SPECIALITY ITEM

80% FEDERAL / 20% DUPAGE COUNTY

CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
				TRAFFIC SIGNAL															
				0021															
				URBAN															
XX005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	1												1				
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	44	1	6	11	1	4		5		2	3	3	1	2	4	1	
XX006655	LAYER II (DATALINK) SWITCH	EACH	87	4	11	19	3	8	2	9		4	4	5	3	4	8	3	
XX007017	TERMINATE FIBER IN CABINET	EACH	304																304
XX007018	LAYER III (NETWORK) SWITCH	EACH	11		3	3		1		1			1		1		1		
XX007622	ELECTRIC METER	EACH	57	1	3	15	2	6	2	5		4	3	3	3	4	6		
XX007952	TERMINAL SERVER	EACH	2																2
XX008251	SPLICE FIBER IN CABINET	EACH	218																218
XX008254	LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE	EACH	25																25
XX008396	CAMERA MOUNTING ASSEMBLY	EACH	4		1	1							1				1		
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	25	1	1	7	1	2	1	3		1	1	2	3		2		
XX009251	FIREWALL	EACH	1																1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	1040																1040
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	4					1					1	1				1	



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	9
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

A PLAINFIELD ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	PLAINFIELD RD AND FAIRMOUNT AVE	PLAINFIELD RD AND MANNING RD	PLAINFIELD RD AND 75TH ST	PLAINFIELD RD AND FIRE STATION ENT	PLAINFIELD RD AND CLARENDON HILLS RD	PLAINFIELD RD AND HIGH RD
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	16	4				8	4
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	265	90				105	70
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2250	750				750	750
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4					4	
88500100	INDUCTIVE LOOP DETECTOR	EACH	20	6				10	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	1				1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7079	70		6741		168	100
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	1			1	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	3			3			
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	120	70					50
X0326955	REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICE	EACH	1					1	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	190					190	
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	2	1					1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	2	1					1
X8100863	INTERCEPT EXISTING CONDUIT	EACH	1			1			
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2				1		1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2	1				1	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	4	1			1	1	1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	3			1	1		1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1					1	
XX006655	LAYER II (DATALINK) SWITCH	EACH	4	1			1	1	1
XX007622	ELECTRIC METER	EACH	1				1		
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1			1			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	11
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

B 63RD STREET CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	HOBSON RD AND WOODRIDGE DR	63RDT ST AND I-355 SB RAMPS	63RDT ST AND I-355 NB RAMPS	63RDT ST AND LEONARD AVE/WESTWOOD SC	63RDT ST AND BELMONT RD	63RDT ST AND WOODWARD AVE	63RDT ST AND SPRINGSIDE AVE	63RDT ST AND DUNHAM RD	63RDT ST AND MAIN ST	63RDT ST AND FAIRVIEW AVE	63RDT ST AND WILLIAMS ST	63RDT ST AND SUFFIELD CT/MARIANO'S ENT	63RDT ST AND CASS AVE	63RDT ST AND RIDGE RD
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	43	4	6	6	4	4	4		4		4	7			
87301800	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	420		420												
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	390	55		80	120		50		55			30			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	6750	750	750	750	750	750	750		750		750	750			
88500100	INDUCTIVE LOOP DETECTOR	EACH	26		9	9					8						
88700300	LIGHT DETECTOR AMPLIFIER	EACH	3		1	1					1						
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3721	74	790	120	200	2385	60		68			24			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	13	1	1	1	1	1	1	1	1	1	1		1	1	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	668	37	395	60	100		30		34			12			
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	1135	115		255		350			105	190				120	
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	3					1				1				1	
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	3							1	1		1				
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	7	1	1	1	1		1		1			1			
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	6					1	1				1	1		1	1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	3		1	1					1						
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	9	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	1	1	1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	6	1		1		1	1		1	1				1	
XX006655	LAYER II (DATALINK) SWITCH	EACH	11	1	1	1	1		1	1	1		1	1	1		1
XX007018	LAYER III (NETWORK) SWITCH	EACH	3					1				1				1	
XX007622	ELECTRIC METER	EACH	3					1					1		1		
XX008396	CAMERA MOUNTING ASSEMBLY	EACH	1			1											
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1					1									
	POE EXTENDER	EACH	1					1									

D JEWELL ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	COUNTY FARM RD AND JEWELL RD	JEWELL RD AND PLEASANT HILL RD	GARY AVE AND JEWELL RD	GARY AVE AND THOMAS RD	GARY AVE AND GENEVA RD
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4				4	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	110		35		75	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	785		35		750	
88500100	INDUCTIVE LOOP DETECTOR	EACH	6				6	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1				1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1870		1817		53	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		1		1	
89502380	REMOVE EXISTING HANDHOLE	EACH	1		1			
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	68		15		53	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	190			190		
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	3		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	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	3		1	1	1	
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	3	1	1	1		
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1			1		
XX006655	LAYER II (DATALINK) SWITCH	EACH	3		1	1	1	
XX007622	ELECTRIC METER	EACH	2	1		1		
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1		1			

F SCHICK ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	SCHICK RD AND MALLARD LN	SCHICK RD AND THORN RD
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4098		4098
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1	1
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	1	1	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2	1	1
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	2	1	1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	2	1	1
XX006655	LAYER II (DATALINK) SWITCH	EACH	2	1	1
XX007622	ELECTRIC METER	EACH	2	1	1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1		1

E ARMY TRAIL ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	ARMY TRAIL RD AND PETERSDORF RD	ARMY TRAIL RD AND GERBER RD	ARMY TRAIL RD AND FAIR OAKS RD	ARMY TRAIL RD AND SPRING VALLEY DR	ARMY TRAIL RD AND WOODLAKE DR	ARMY TRAIL RD AND COUNTY FARM RD	ARMY TRAIL RD AND CLIPPER DR	ARMY TRAIL RD AND KUHN RD/MADSEN DR	ARMY TRAIL RD AND MERBACH DR
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	9	1	1	1	1	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	14	4				4		6		
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	205	75						95	35	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2285	750				750		750	35	
88500100	INDUCTIVE LOOP DETECTOR	EACH	8				8					
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1				1					
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5546	2774					2596	150	26	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1	1		1			1	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	5	2					3			
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	143	55						75	13	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	1395	430	205		225		215		320	
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1								1	
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	1						1			
X1400335	WIRELESS TRANSMISSION SYSTEM POINT TO POINT	EACH	2	1	1							
X8050095	SERVICE INSTALLATION (SPECIAL)	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	1				1					
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	8	1	1	1	1	1		1	1	1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	8	1	1	1		1	1	1	1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	4	1		1			1		1	
XX006655	LAYER II (DATALINK) SWITCH	EACH	8	1	1	1	1	1		1	1	1
XX007018	LAYER III (NETWORK) SWITCH	EACH	1						1			
XX007622	ELECTRIC METER	EACH	6		1	1	1	1	1			1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	2	1					1			
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	1								1	
	POE EXTENDER	EACH	1								1	



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	14
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

G EOLA ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	EOLA RD AND LIBERTY ST	EOLA RD AND JEWELL ENT/SHEFFER RD	EOLA RD AND AURORA RD/INDIAN TRAIL RD	EOLA RD AND STONEBRIDGE BLVD/HAVERHILL DR	EOLA RD AND MOLITOR RD/METEA HS S ENT	EOLA RD AND MUSTANG WAY	EOLA RD AND DIEHL RD	EOLA RD AND FERRY RD/BILTER RD	DIEHL RD AND I-88 EB RAMPS	BILTER RD AND I-88 WB RAMPS
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	10	1	1	1	1	1	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	7	7									
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	275	155		75					45		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	870	750		75					45		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	12617	135		2352				7000	3130		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	8	1	1	1	1	1	1	1	1		
89502380	REMOVE EXISTING HANDHOLE	EACH	6			2				1	3		
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	216	135		55					26		
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	1165	105		380		105		355	220		
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	1			1							
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	1	1									
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	3	1		1					1		
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2				1				1		
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	7	1		1	1	1	1	1	1		
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	10	1	1	1	1	1	1	1	1	1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	5	1	1	1	1	1	1	1	1		
XX006655	LAYER II (DATALINK) SWITCH	EACH	9	1	1		1	1	1	1	1	1	1
XX007018	LAYER III (NETWORK) SWITCH	EACH	1			1							
XX007622	ELECTRIC METER	EACH	5		1		1	1	1	1			
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	3			1				1	1		
	POE EXTENDER	EACH	2			1				1			

H IL ROUTE 59 CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	IL RTE 59 AND 75TH ST
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1

I COUNTY FARM ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	COUNTY FARM RD AND BIRCHBARK TR	COUNTY FARM RD AND LIES RD	COUNTY FARM RD AND KELLY DR	COUNTY FARM RD AND SCHICK RD
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	19	7	5	7	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2250	750	750	750	
88500100	INDUCTIVE LOOP DETECTOR	EACH	6			6	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3552				3552
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1	
89502380	REMOVE EXISTING HANDHOLE	EACH	5				5
X0326104	RELOCATE RADAR DETECTOR SYSTEM	EACH	1			1	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	355		235		120
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1			1	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	3	1	1	1	
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	3	1	1		1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	2		1		1
XX006655	LAYER II (DATALINK) SWITCH	EACH	4	1	1	1	1
XX007622	ELECTRIC METER	EACH	4	1	1	1	1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1				1

J GARY AVENUE CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	GARY AVE AND SCHICK RD	GARY AVE AND GLENWOOD DR	GARY AVE AND LAWRENCE AVE	GARY AVE AND CENTRAL AVE	GARY AVE AND TRAVIS PKWY
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8				8	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	165	30			135	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	780	30			750	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2566	20			2546	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1		1	
89502380	REMOVE EXISTING HANDHOLE	EACH	3				3	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	124	10			114	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	530			120	245	165
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1	1				
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	1	1				
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1				1	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2		1		1	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	2			1	1	
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	5	1	1	1	1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	3			1	1	1
XX006655	LAYER II (DATALINK) SWITCH	EACH	4		1	1	1	1
XX007018	LAYER III (NETWORK) SWITCH	EACH	1	1				
XX007622	ELECTRIC METER	EACH	3		1	1		1
XX008396	CAMERA MOUNTING ASSEMBLY	EACH	1					1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	1				1	
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	1	1				

K WEHRLI ROAD/COLLEGE ROAD/YACKLEY AVENUE CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	WEHRLI RD AND 75TH ST	WEHRLI RD/COLLEGE RD AND HOBSON RD	COLLEGE RD AND GREEN TRAILS RD	COLLEGE RD AND ABBEYWOOD DR	COLLEGE RD AND IBU ENTRANCE	YACKLEY AVE AND OHIO ST
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	1	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8		4	4			
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	80		35	45			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1500		750	750			
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1				
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8623	6294	2283	46			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		1	1			
89502380	REMOVE EXISTING HANDHOLE	EACH	7	4	3				
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	38		15	23			
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	715		225	255	235		
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1			1			
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	2		1				1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1		1				
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1				
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	5		1	1	1	1	1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	5	1		1	1	1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	3		1	1	1		
XX006655	LAYER II (DATALINK) SWITCH	EACH	5		1	1	1	1	1
XX007622	ELECTRIC METER	EACH	3				1	1	1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	2	1	1				
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	1			1			

L BLOOMINGDALE ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	BLOOMINGDALE RD AND ARMY TRAIL RD	BLOOMINGDALE RD AND GREENWAY DR	BLOOMINGDALE RD AND EDGEWATER DR	BLOOMINGDALE RD AND FAIRFIELD WAY	BLOOMINGDALE RD AND SCHICK RD
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8			4	4	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	30			30		
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1500			750	750	
88500100	INDUCTIVE LOOP DETECTOR	EACH	7			7		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2			1	1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6184	2691	2007	11		1475
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1	1	1	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	1					1
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	11			11		
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	135					135
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	2	1				1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1			1		
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	2		1			1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2			1	1	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	2				1	1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	3	1	1			1
XX005800	RELOCATE EXISTING UPS BATTERY BACK-UP SYSTEM	EACH	1			1		
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1					1
XX006655	LAYER II (DATALINK) SWITCH	EACH	3		1	1	1	
XX007018	LAYER III (NETWORK) SWITCH	EACH	1					1
XX007622	ELECTRIC METER	EACH	3		1		1	1
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	3	1	1			

M BELMONT ROAD CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	BELMONT RD AND HOBSON RD/59TH ST	BELMONT RD AND CURTISS ST	BELMONT RD AND HADDOW AVE	BELMONT RD AND PRAIRIE AVE
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4	4			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	750	750			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1		1	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	320		110		210
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	1	1			
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1	1			
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1	1			
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	4	1	1	1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	2		1		1
XX006655	LAYER II (DATALINK) SWITCH	EACH	4	1	1	1	1
XX007622	ELECTRIC METER	EACH	4	1	1	1	1



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PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 6 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H22	

N LEMONT ROAD/MAIN STREET CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL										
				LEMONT RD AND DAVEY RD	LEMONT RD AND INTERNATIONAL PKWY	LEMONT RD AND 101ST ST	LEMONT RD AND WESTGATE RD/97TH ST	LEMONT RD AND FRONTAGE RD/CHEESE RD AND TIMBER TRAILS RD	LEMONT RD AND 87TH ST	LEMONT RD AND 83RD ST/PLAINFIELD RD	LEMONT RD AND DUNHAM RD/SC	MAIN ST AND 67TH ST	MAIN ST AND 59TH ST
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	10	1	1	1	1	1	1	1	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	15		5	5						5	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	420		80	195		40				105	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2290		750	750		40				750	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2912		58	175	750	44	1439			170	276
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1	1	1		1				1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	1				1						
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	340		58	175		22				85	
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	780		270		100		220	190			
X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	1							1			
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	4		1	1		1				1	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	3		1	1							1
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2	1	1								
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	6			1	1	1		1		1	1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	9	1	1	1	1	1	1	1		1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	4		1		1		1	1			
XX006655	LAYER II (DATALINK) SWITCH	EACH	8	1	1	1	1	1	1			1	1
XX007018	LAYER III (NETWORK) SWITCH	EACH	1							1			
XX007622	ELECTRIC METER	EACH	6	1	1		1		1	1			1
XX008396	CAMERA MOUNTING ASSEMBLY	EACH	1							1			
XX009046	VEHICLE DETECTION SYSTEM, SPECIAL	EACH	2				1						1

0 CASS AVENUE CORRIDOR QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL			
				CASS AVE AND 67TH ST	CASS AVE AND 65TH ST	CASS AVE AND 59TH ST
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	45			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	1	1	1
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	15	7	4	4
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	185	80	70	35
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2250	750	750	750
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4		4	
88500100	INDUCTIVE LOOP DETECTOR	EACH	10	10		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	183	122	35	26
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1	1	1
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	74	61		13
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	290	290		
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2	1	1	
X1400303	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	3	1	1	1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1			1
X8100105	CONDUIT SPLICE	EACH	1		1	
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1			1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1		
X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1		1	
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	2	1		1
X8950212	MODIFY EXISTING CONTROLLER CABINET, SPECIAL	EACH	2		1	1
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1	1		
XX006655	LAYER II (DATALINK) SWITCH	EACH	3	1	1	1
Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	1	1		



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	17
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

P INTERCONNECT QUANTITIES

PAY ITEM #	PAY ITEM DESCRIPTION	UNIT	TOTAL	INTERCONNECT AREA 1	INTERCONNECT AREA 2	INTERCONNECT AREA 3	INTERCONNECT AREA 4	INTERCONNECT AREA 5
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	89	1	29	49		10
66900210	HAZARDOUS WASTE DISPOSAL	CU YD	3			3		
66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GALLON	2231	20	720	1238		253
66900530	SOIL DISPOSAL ANALYSIS	EACH	8	1	1	5		1
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.25	0.25	0.25		0.25
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.25	0.25	0.25		0.25
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	17	0.5	2.5	13.5		0.5
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	369		81	288		
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	98047	12996	17442	56458	5452	5699
81400100	HANDHOLE	EACH	146	21	27	82	8	8
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	11	11				
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3			3		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	233125	40130	53375	105460	6730	27430
87900200	DRILL EXISTING HANDHOLE	EACH	101	10	16	63	6	6
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	114331	18353	32314	43375		20289
89502380	REMOVE EXISTING HANDHOLE	EACH	9			9		
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	83439	9942	26633	30556		16308
X0326255	APPLICATION SERVER	EACH	1	1				
X0326256	WEB SERVER	EACH	1	1				
X8100863	INTERCEPT EXISTING CONDUIT	EACH	2	2				
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	235780	40955	53815	106485	6800	27725
X8950510	REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	104649	12610	33487	38066		20486
XX007017	TERMINATE FIBER IN CABINET	EACH	304	28	36	144	48	48
XX007952	TERMINAL SERVER	EACH	2			2		
XX008251	SPLICE FIBER IN CABINET	EACH	218	32	36	90	30	30
XX008254	LAYER III FIBER OPTIC TRANSCEIVER MODULE, SFP TYPE, LONG DISTANCE	EACH	25	3	6	12	2	2
XX009251	FIREWALL	EACH	1	1				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	1040	260	260	312	104	104
	PROGRAM ITS EQUIPMENT	EACH	2			2		



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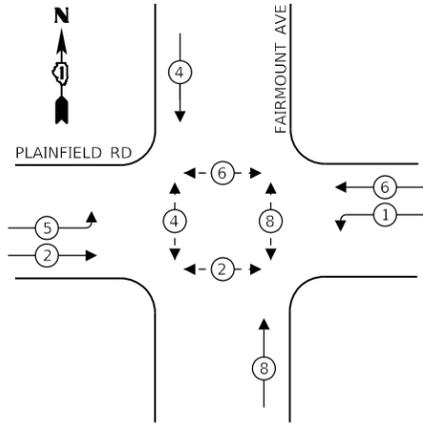
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

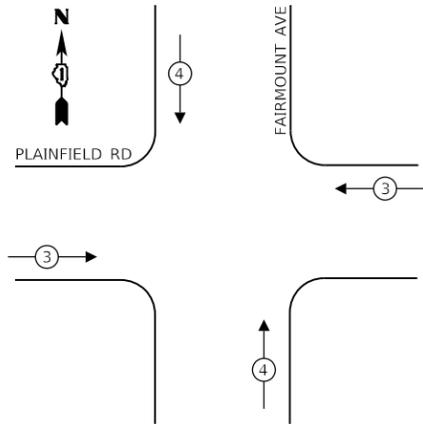
SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	18
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

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 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.

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

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 EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO 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 UPS SYSTEM.
- 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 (70'-E-1 1/2").

**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	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	75
TOTAL =				686

ENERGY COSTS TO:

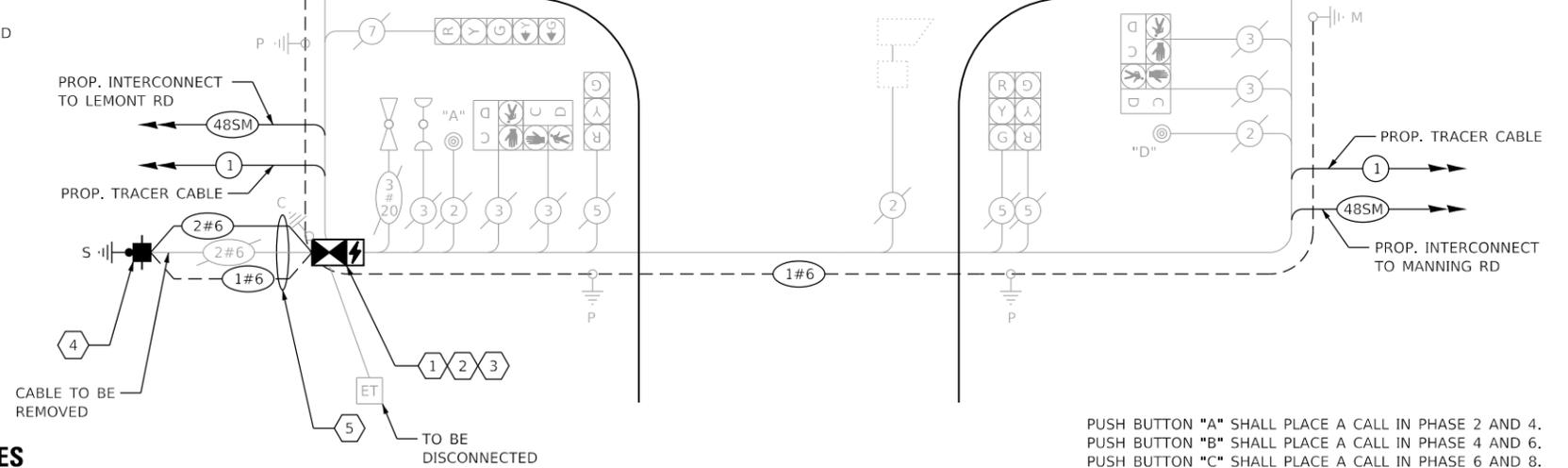
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
90	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
70	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
70	FOOT	ROD AND CLEAN EXISTING CONDUIT
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 AND CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

PLAINFIELD RD



**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 2 AND 8.

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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
112	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

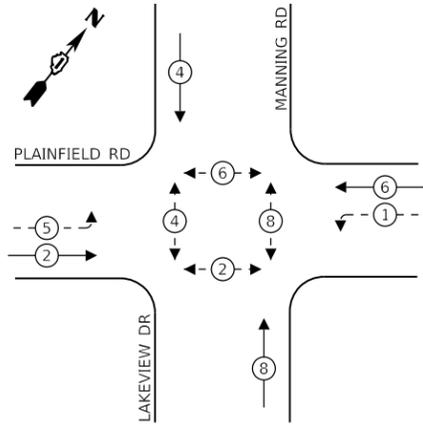
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
PLAINFIELD RD AND FAIRMOUNT AVE**

SCALE: SHEET 1 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	19
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

DUDOT

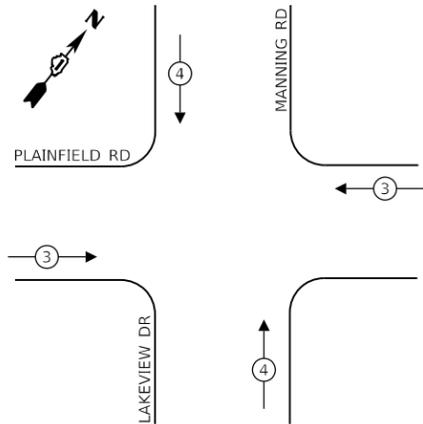
EXISTING CONTROLLER SEQUENCE



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)	13	11	50	72
(YELLOW)	13	20	5	13
(GREEN)	13	12	45	71
PERMISSIVE ARROW	8	10	10	8
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 =				774

ENERGY COSTS TO:

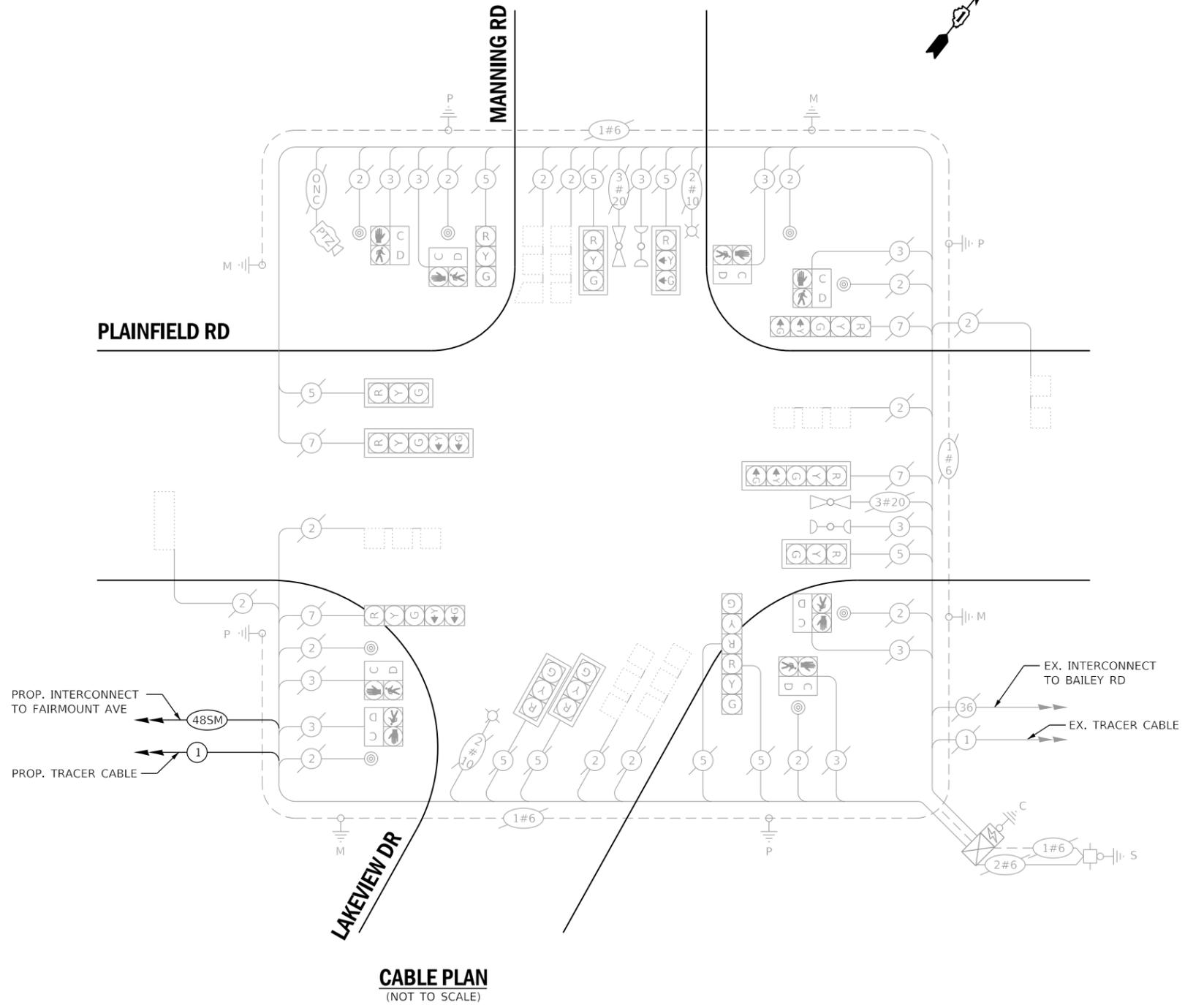
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

SCHEDULE OF QUANTITIES



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
115	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

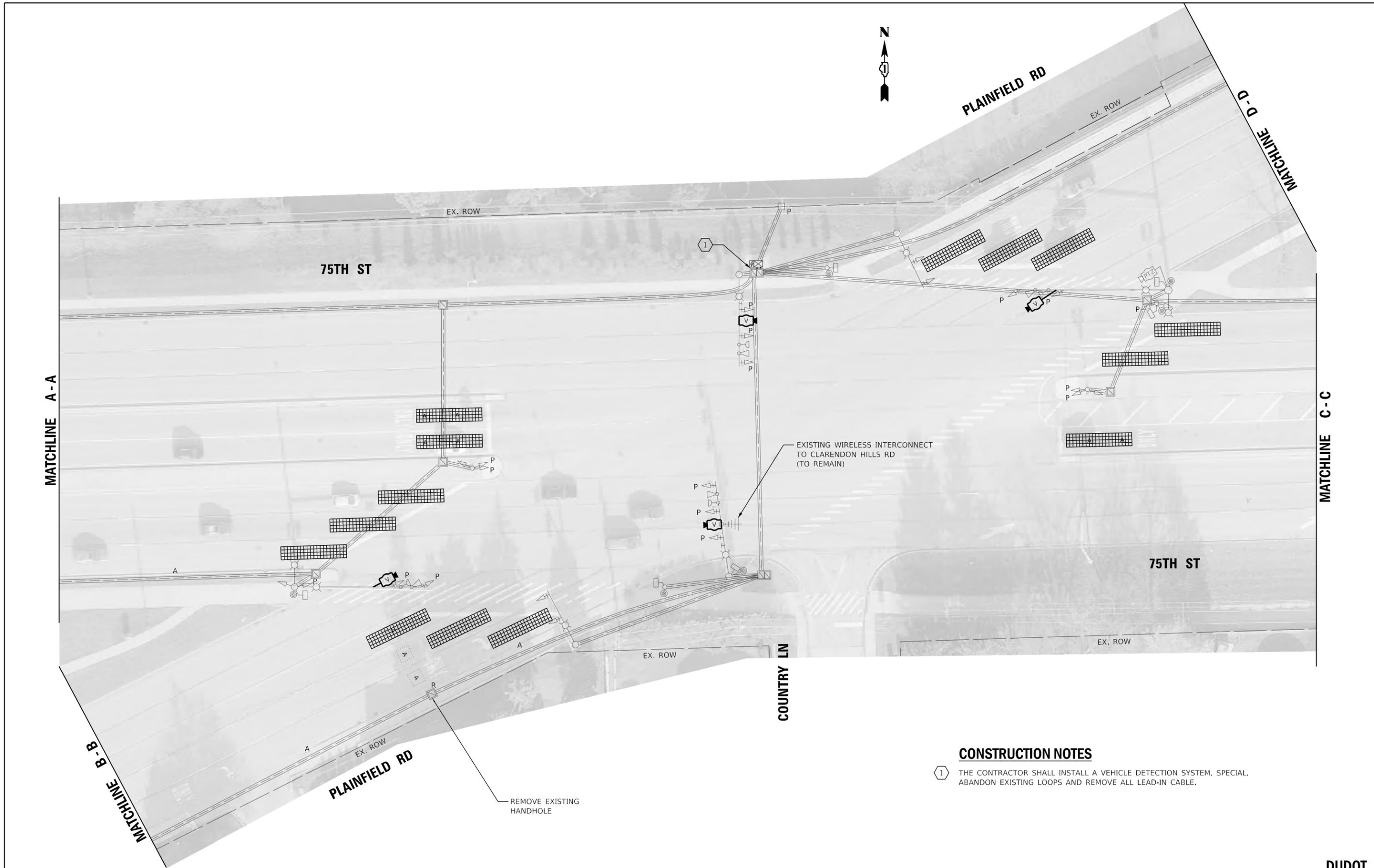
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
PLAINFIELD RD AND MANNING RD**

SCALE: SHEET 2 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	20
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT



CONSTRUCTION NOTES

- 1 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -
	48	DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

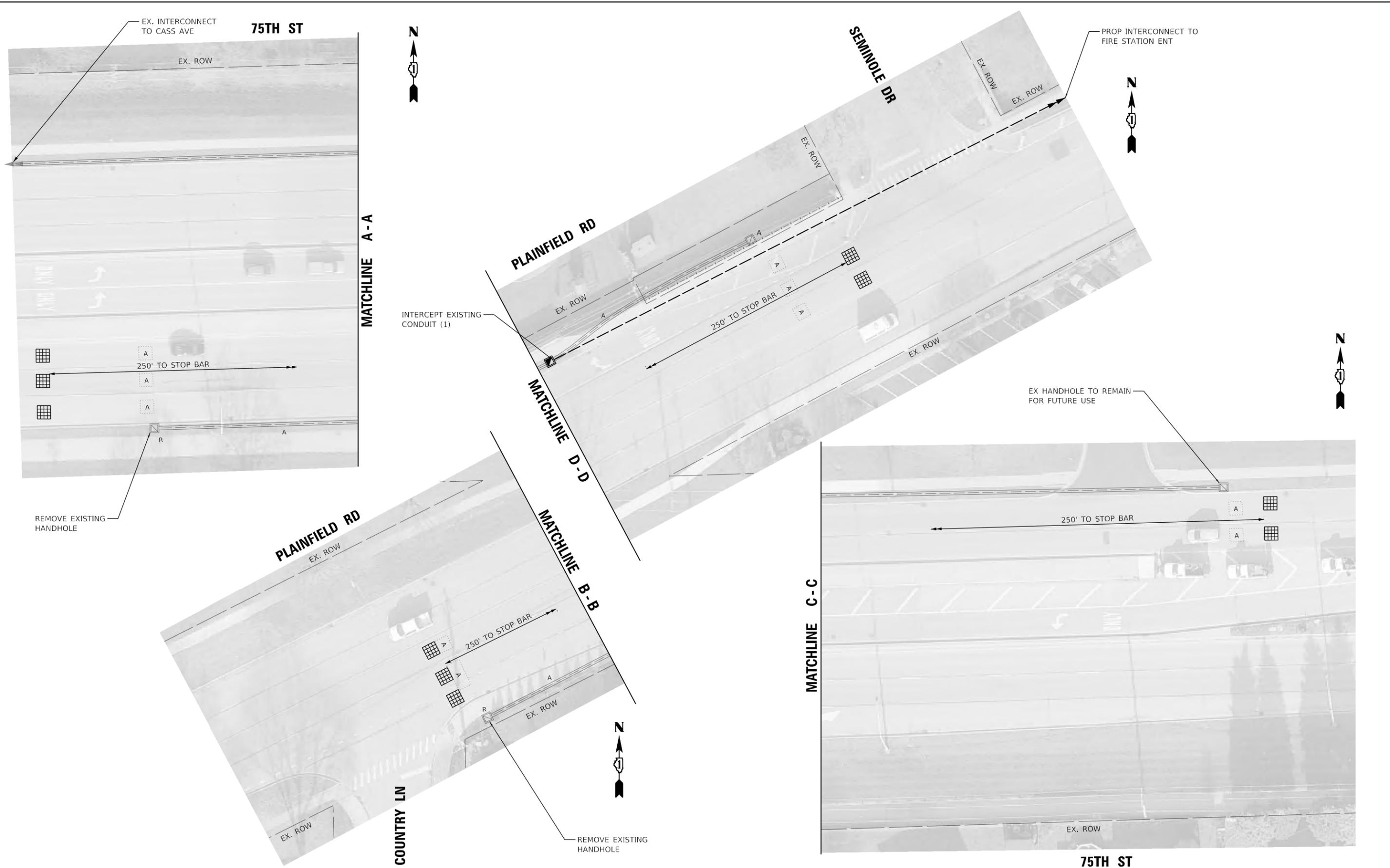
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
PLAINFIELD RD AND 75TH ST - (SHEET 1 OF 2)**

SCALE: SHEET 3 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	21
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-plainfield-ts-plan.dgn
Int48



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
48	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

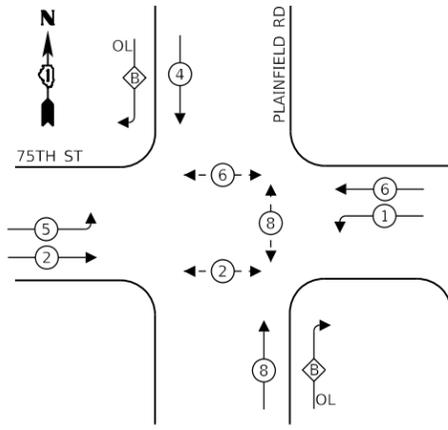
**TRAFFIC SIGNAL MODERNIZATION PLAN
PLAINFIELD RD AND 75TH ST - (SHEET 2 OF 2)**

SCALE: SHEET 4 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H22	

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-plainfield-ts-plan.dgn
Int48

EXISTING CONTROLLER SEQUENCE



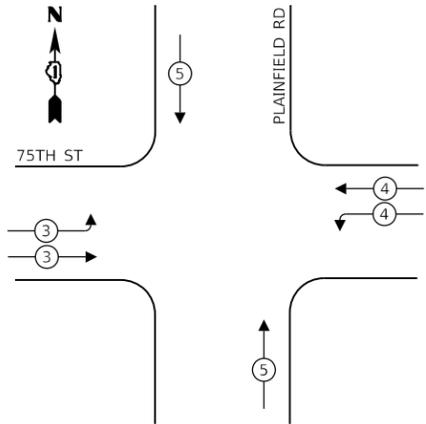
LEGEND:

- ⊙ — PROTECTED PHASE
- ⊖ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — 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)	24	11	50	132
(YELLOW)	24	20	5	24
(GREEN)	24	12	45	130
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	4	120	50	240
LUMINAIRE	10	250	50	1250
PTZ CAMERA	1	75	100	75
TOTAL =				2254

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

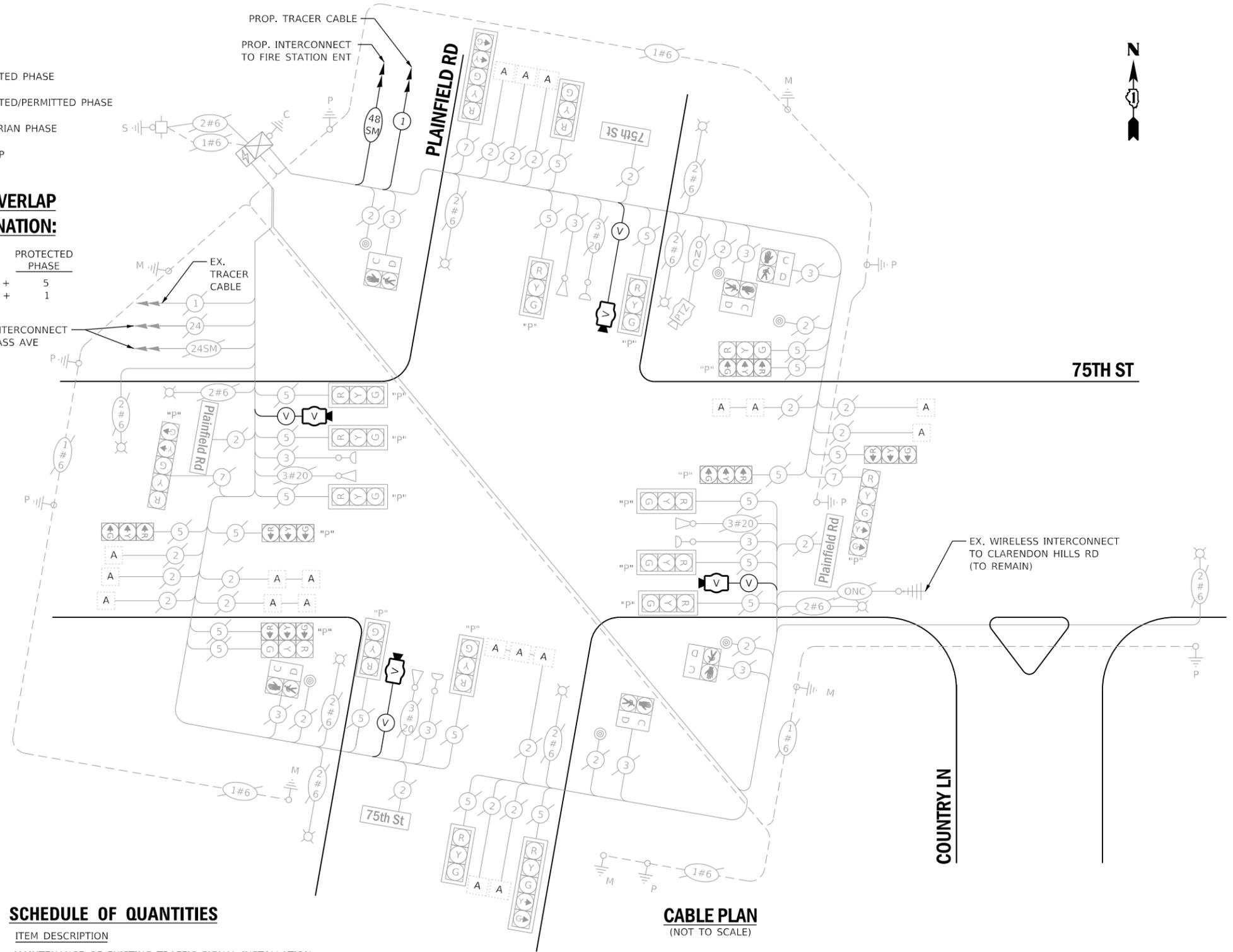
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS
1.0	EACH
6741	FOOT
3	EACH
1	EACH
1	EACH
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING HANDHOLE
INTERCEPT EXISTING CONDUIT
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
VEHICLE DETECTION SYSTEM, SPECIAL



CABLE PLAN
(NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
48	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

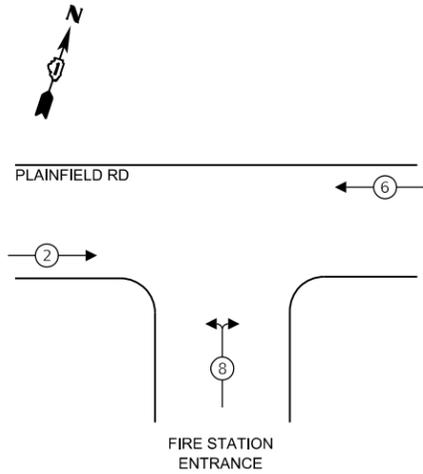
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
PLAINFIELD RD AND 75TH ST

SCALE: SHEET 5 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	23
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

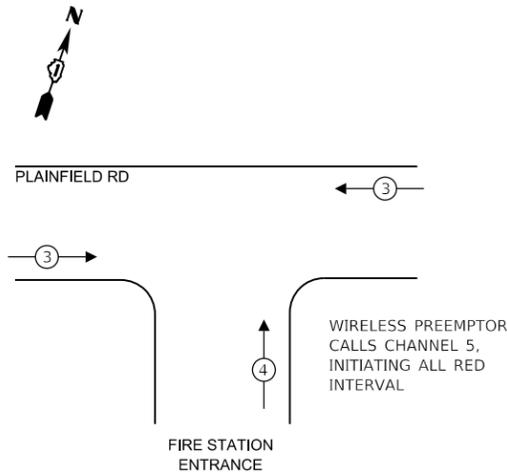
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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/25-1000)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED BACK INTO THE NEW CONTROLLER CABINET.

- 1 EACH WIRELESS EVP UNIT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL AN ELECTRICAL METER.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	50
(YELLOW)	9	20	5	9
(GREEN)	9	12	45	49
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	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				233

ENERGY COSTS TO:

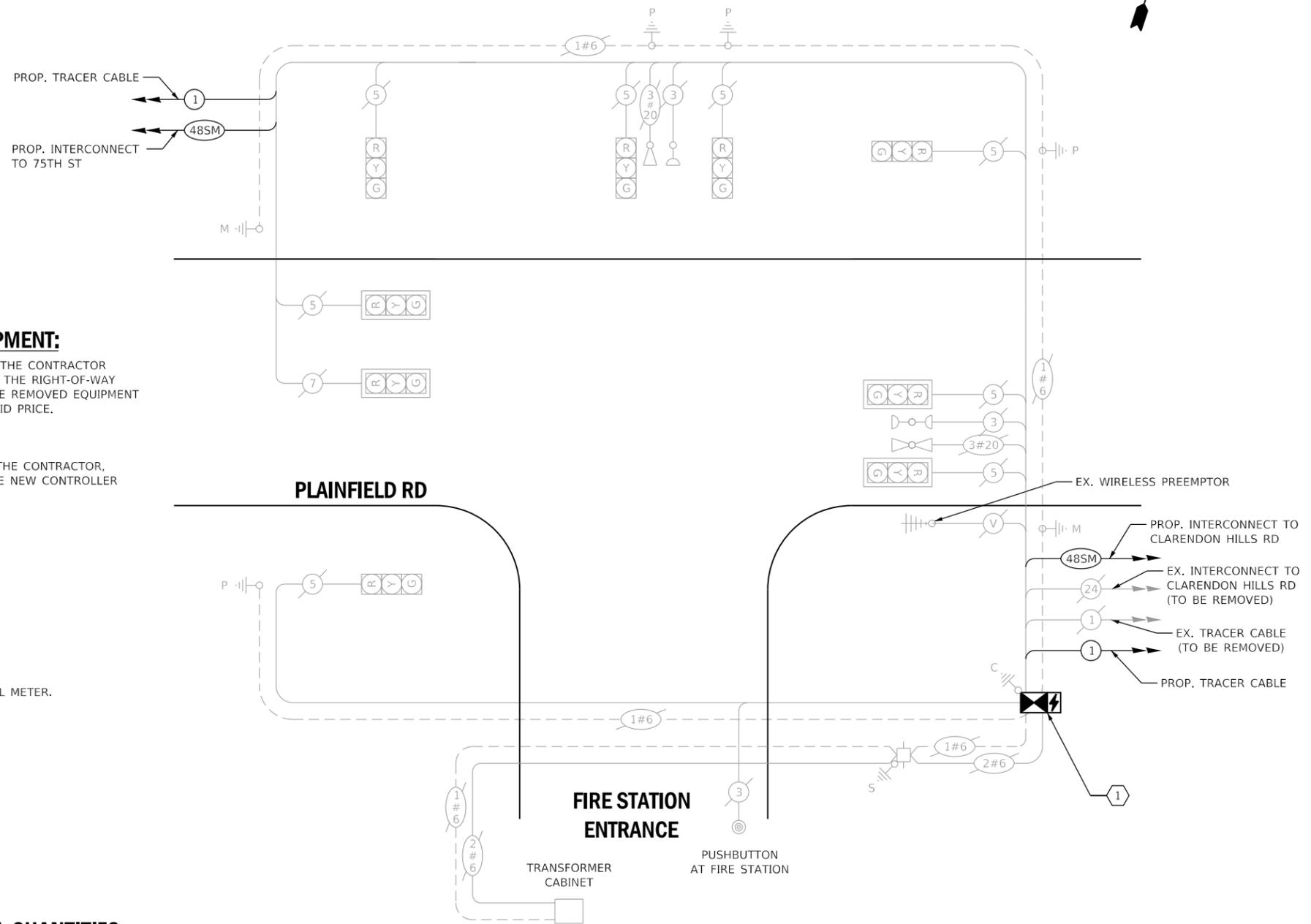
DUPAGE COUNTY D.O.T.

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN
(NOT TO SCALE)

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

REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

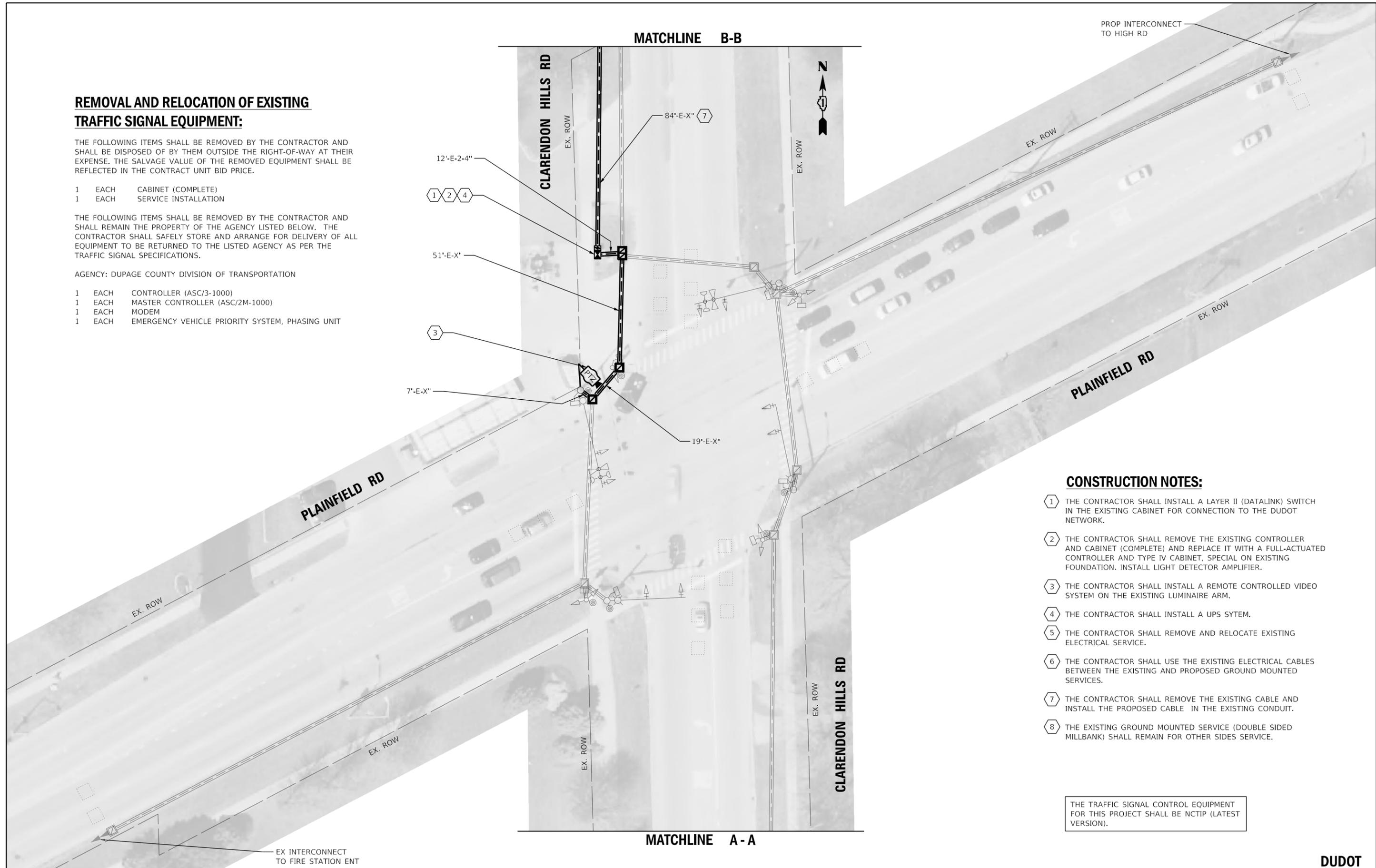
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CABINET (COMPLETE)
- 1 EACH SERVICE INSTALLATION

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/3-1000)
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)
- 1 EACH MODEM
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT



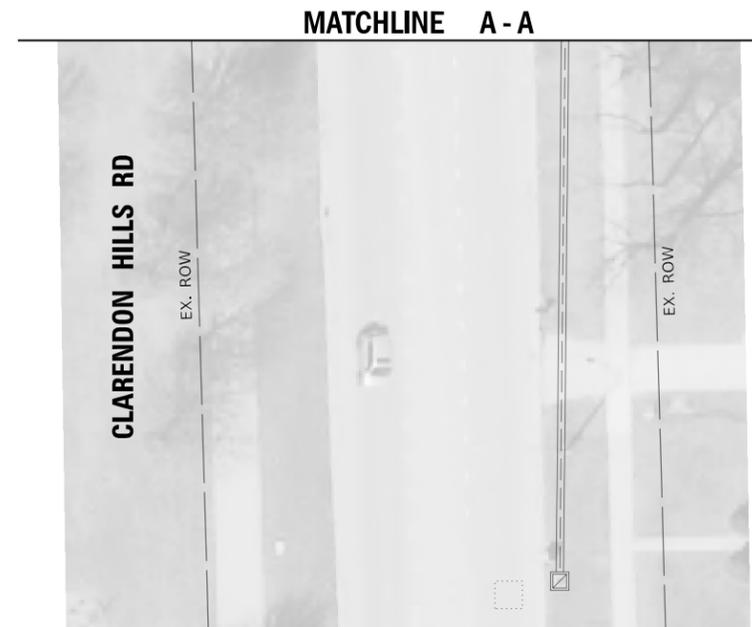
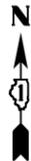
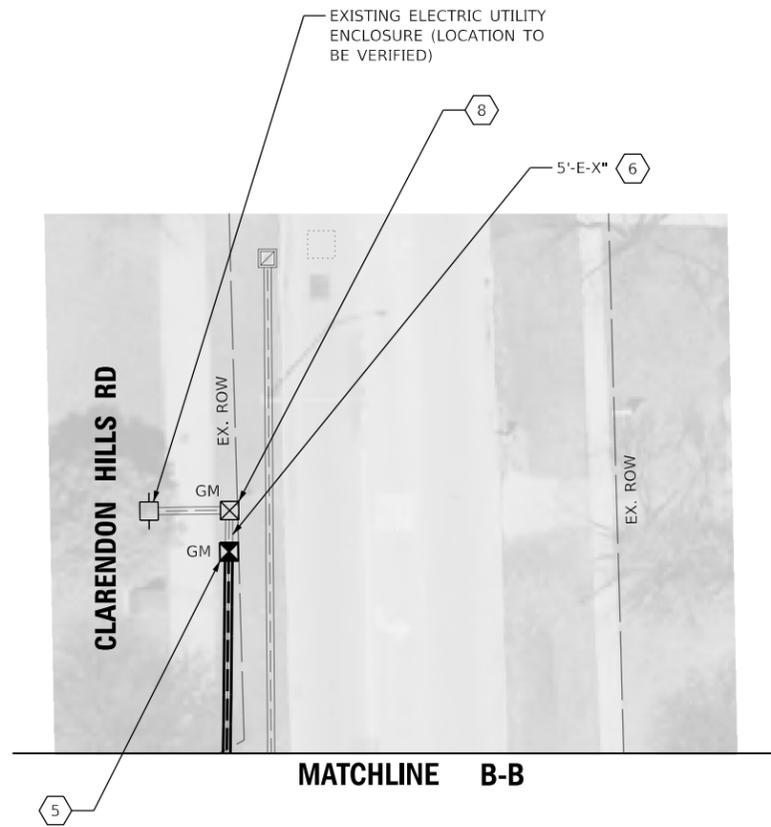
CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICE.
- 6 THE CONTRACTOR SHALL USE THE EXISTING ELECTRICAL CABLES BETWEEN THE EXISTING AND PROPOSED GROUND MOUNTED SERVICES.
- 7 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 8 THE EXISTING GROUND MOUNTED SERVICE (DOUBLE SIDED MILLBANK) SHALL REMAIN FOR OTHER SIDES SERVICE.

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

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN PLAINFIELD RD AND CLARENDON HILLS RD - (SHEET 1 OF 2)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	111	DRAWN - RG	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	25
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -					CONTRACT NO.	61H22	
	PLOT DATE = 8/2/2021	DATE -	REVISED -					ILLINOIS	FED. AID PROJECT	
FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\stl-plainfield-ts-plan.dgn Int111					SCALE:	SHEET 7	OF 172	SHEETS	STA.	TO STA.



DLZ	USER NAME = zhoerbert	DESIGNED - DW	REVISED -
	111	DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

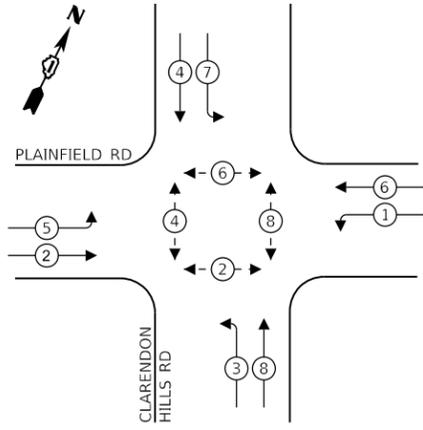
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
PLAINFIELD RD AND CLARENDON HILLS RD - (SHEET 2 OF 2)**

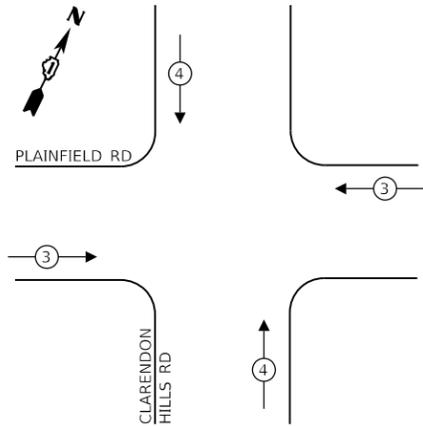
SCALE: SHEET 8 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	26
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

EXISTING CONTROLLER SEQUENCE



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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1067

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: _____

LEGEND:

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

EXISTING ELECTRIC UTILITY ENCLOSURE (LOCATION TO BE VERIFIED)

TO BE DISCONNECTED

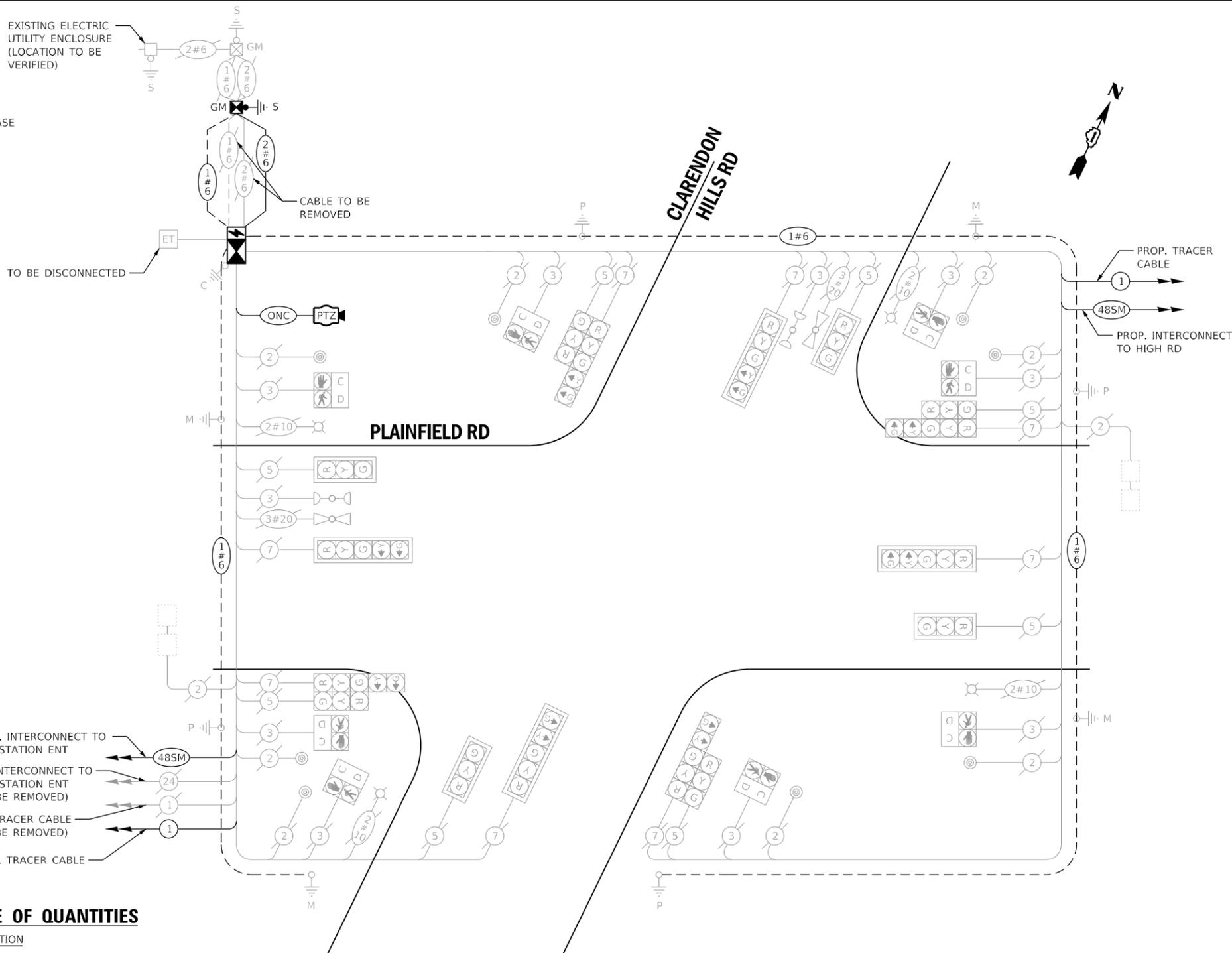
CABLE TO BE REMOVED

- PROP. INTERCONNECT TO FIRE STATION ENT
- EX. INTERCONNECT TO FIRE STATION ENT (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
105	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C
4	FOOT	CONCRETE FOUNDATION, TYPE A
10	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
168	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICE
190	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH

CABLE PLAN
(NOT TO SCALE)



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

DUDOT

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
PLAINFIELD RD AND CLARENDON HILLS RD**

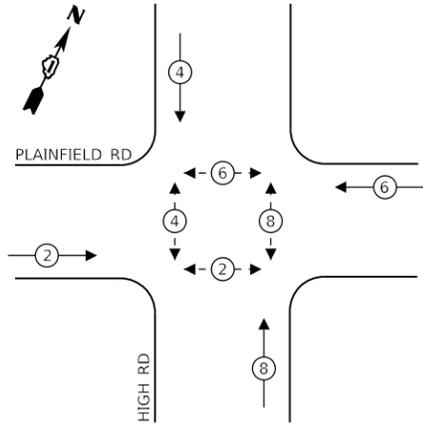
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	27
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

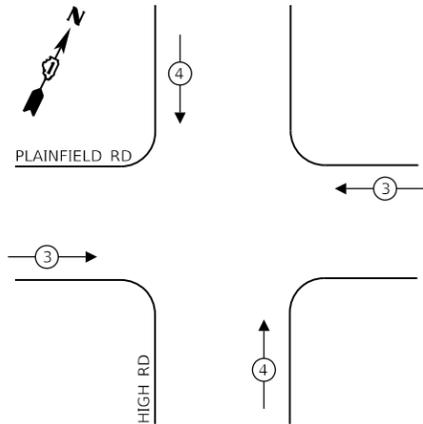


USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
111	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

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/25-1000)

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO 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 UPS SYSTEM.
- 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 (50'-E-1 1/2").

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	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	-
TOTAL =				702

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

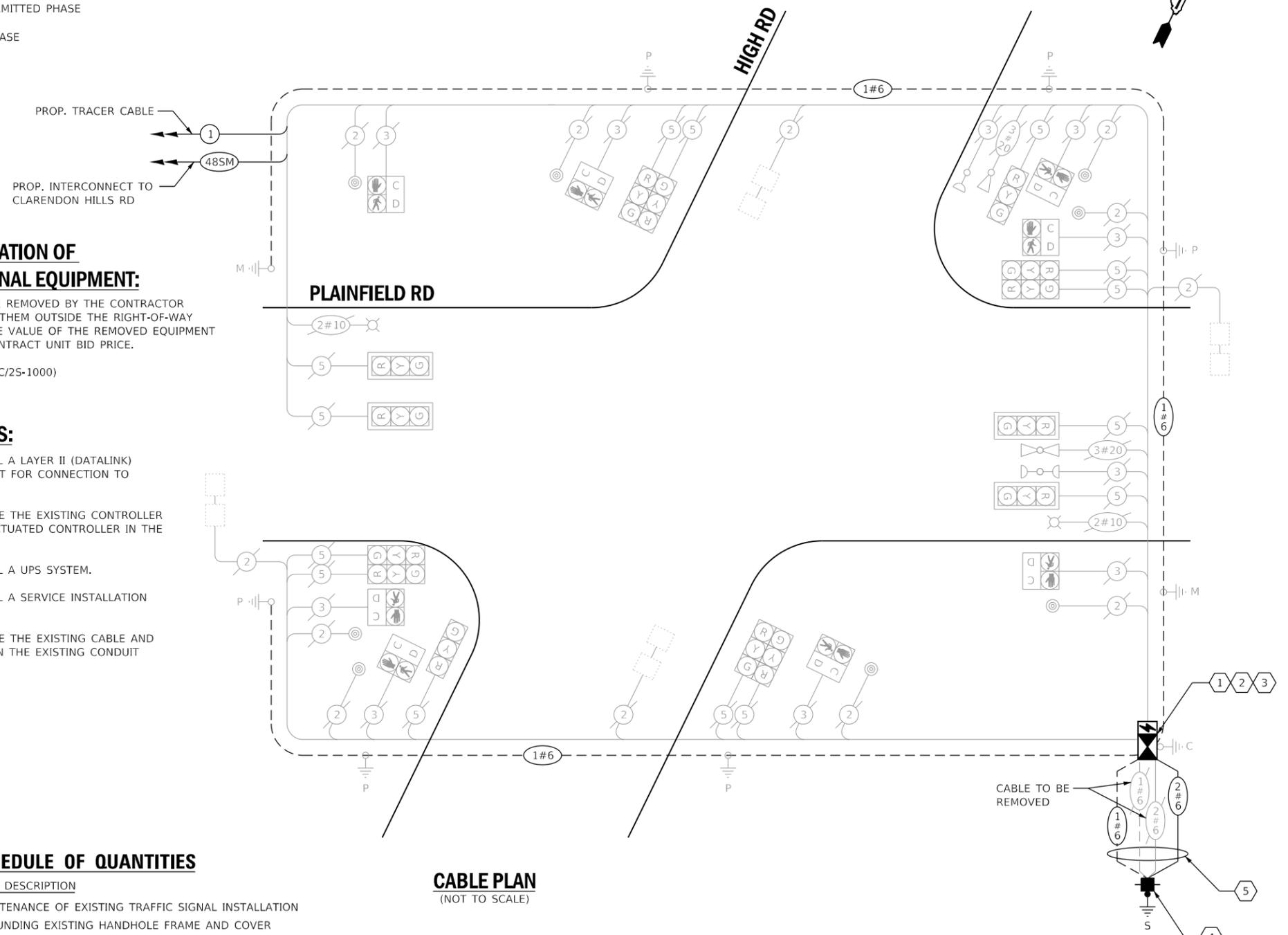
ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
70	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
4	EACH	INDUCTIVE LOOP DETECTOR
100	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
50	FOOT	ROD AND CLEAN EXISTING CONDUIT
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 AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

PLAINFIELD RD

CABLE PLAN (NOT TO SCALE)



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



USER NAME = zhoerbert
114
PLOT SCALE = 40,0000 ' / in.
PLOT DATE = 8/2/2021

DESIGNED - ZH
DRAWN - RG
CHECKED - DW
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
PLAINFIELD RD AND HIGH RD**

SCALE: SHEET 10 OF 172 SHEETS STA. TO STA.

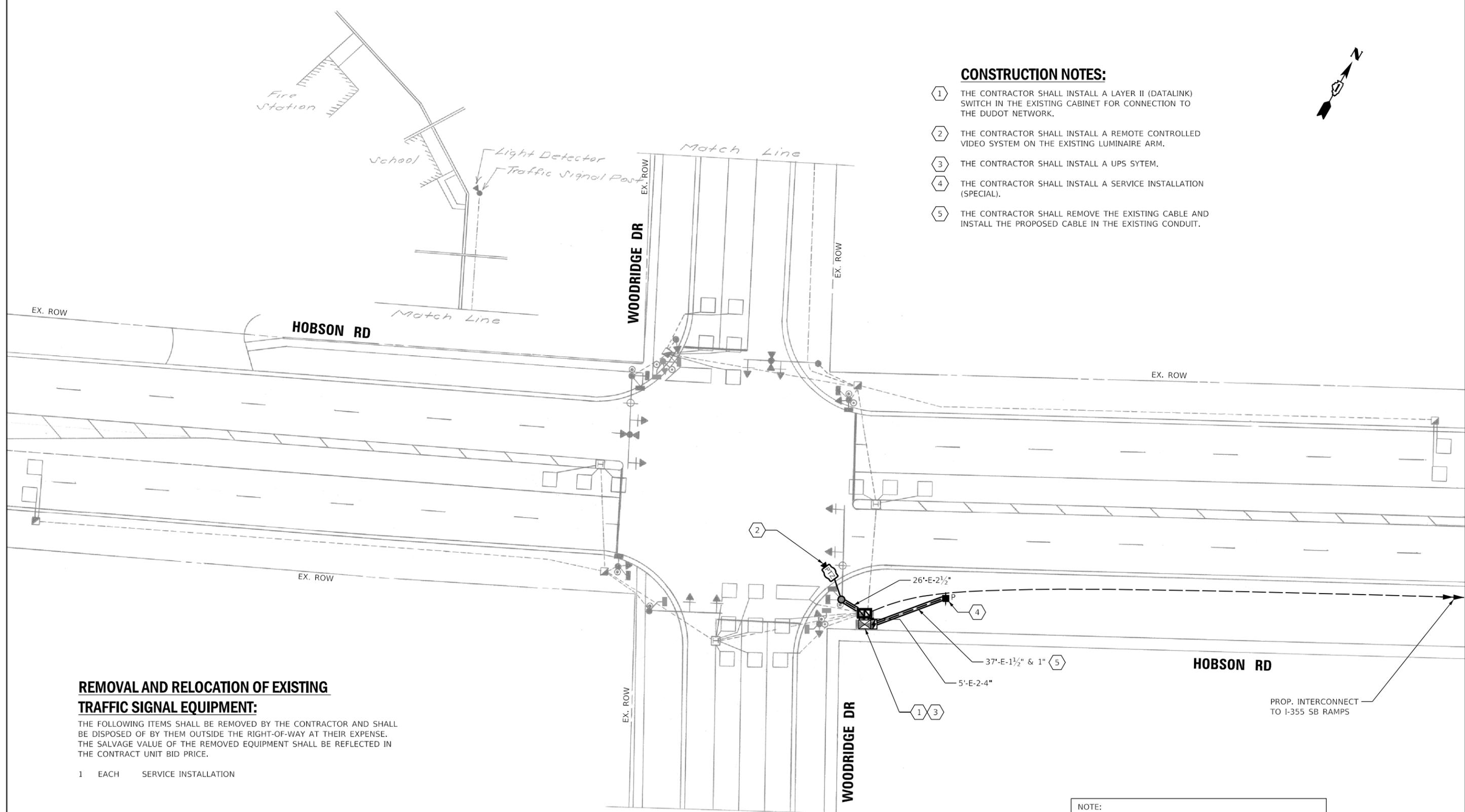
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	28
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

DUDOT



CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 UPS SYTEM.
- 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.



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

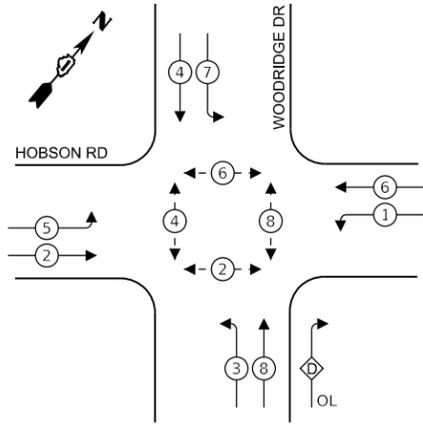
NOTE:
INTERSECTION BEING MODIFIED WITH SIDEWALK PROJECT.
COORDINATE IMPROVEMENTS WITH IDOT CONTRACT 61G89.

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TRAFFIC SIGNAL MODERNIZATION PLAN HOBSON RD AND WOODRIDGE DR</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	86	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	29
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -									
	PLOT DATE = 8/2/2021	DATE -	REVISED -		SCALE:	SHEET 11	OF 172	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-63rd-ts-plan.dgn
Int86

EXISTING CONTROLLER SEQUENCE



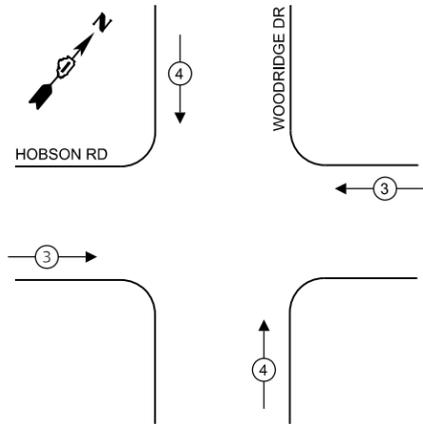
LEGEND:

- ⊙ — 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	20	10	10	20
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 =				786

ENERGY COSTS TO:

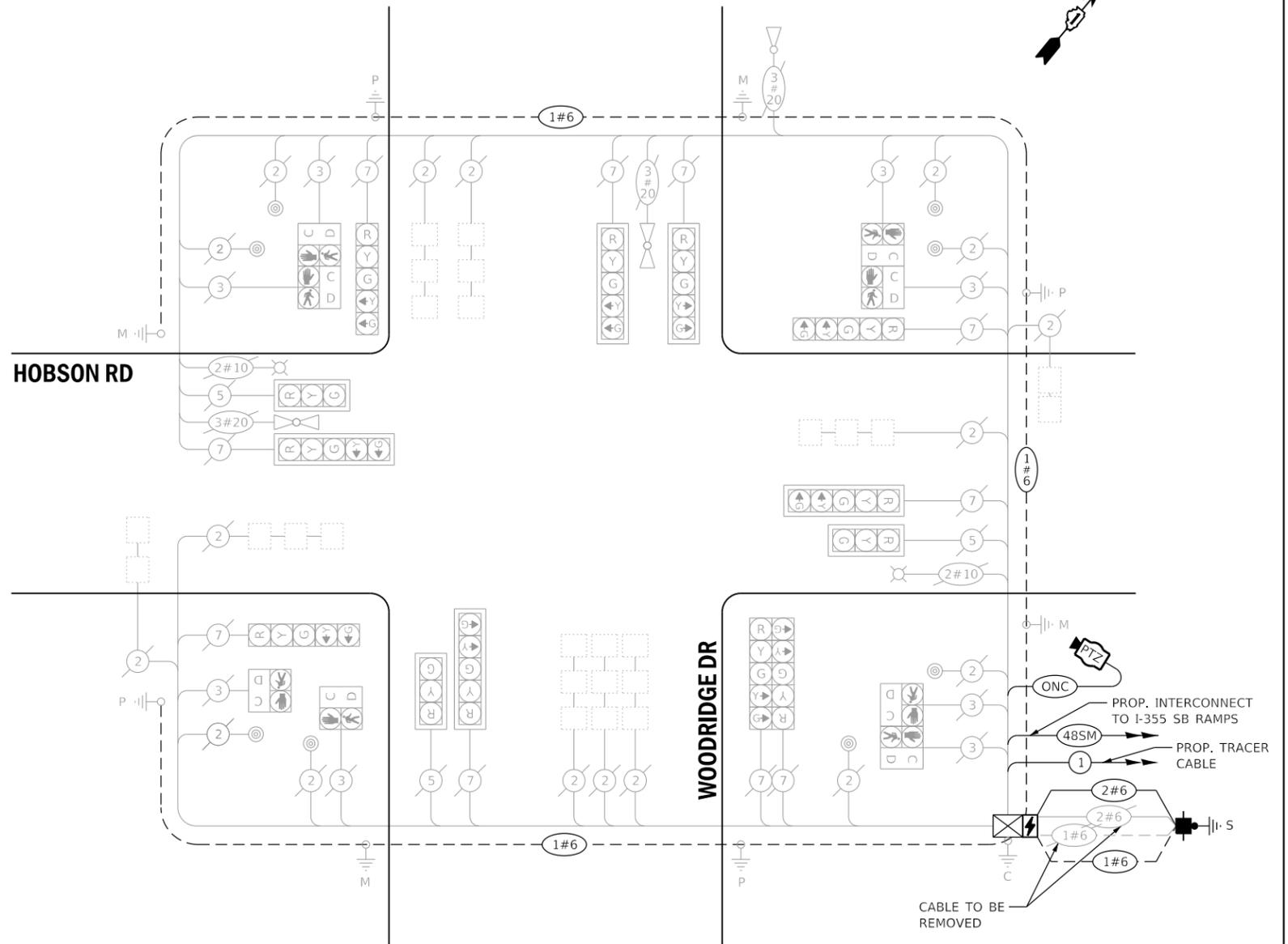
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
55	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
74	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
37	FOOT	ROD AND CLEAN EXISTING CONDUIT
115	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

NOTE:
INTERSECTION BEING MODIFIED WITH SIDEWALK PROJECT.
COORDINATE IMPROVEMENTS WITH IDOT CONTRACT 61G89.



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
86	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

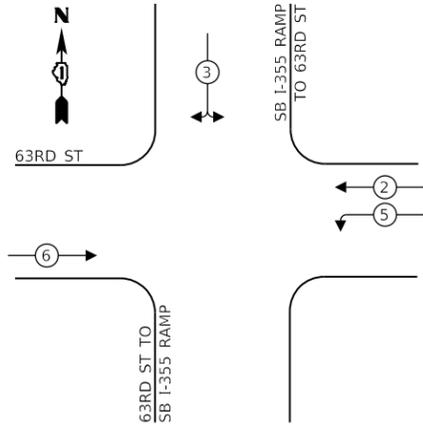
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
HOBSON RD AND WOODRIDGE DR

SCALE: NTS SHEET 12 OF 172 SHEETS STA. TO STA.

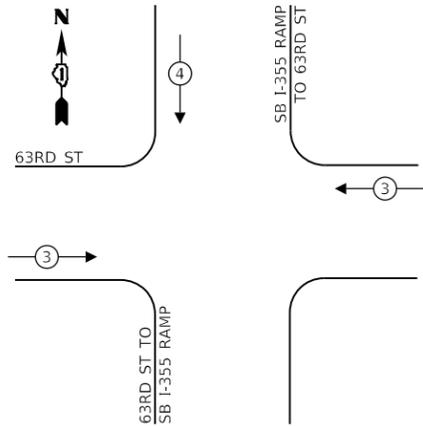
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	30
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION 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 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 UPS SYSTEM.
- 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 (85'-E-2" SERVICE TO HH AND 310'-E-2" HH TO CONTROLLER).

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 SERVICE INSTALLATION

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 EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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)	15	12	45	81
PERMISSIVE ARROW	4	10	10	4
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 =				301

ENERGY COSTS TO:

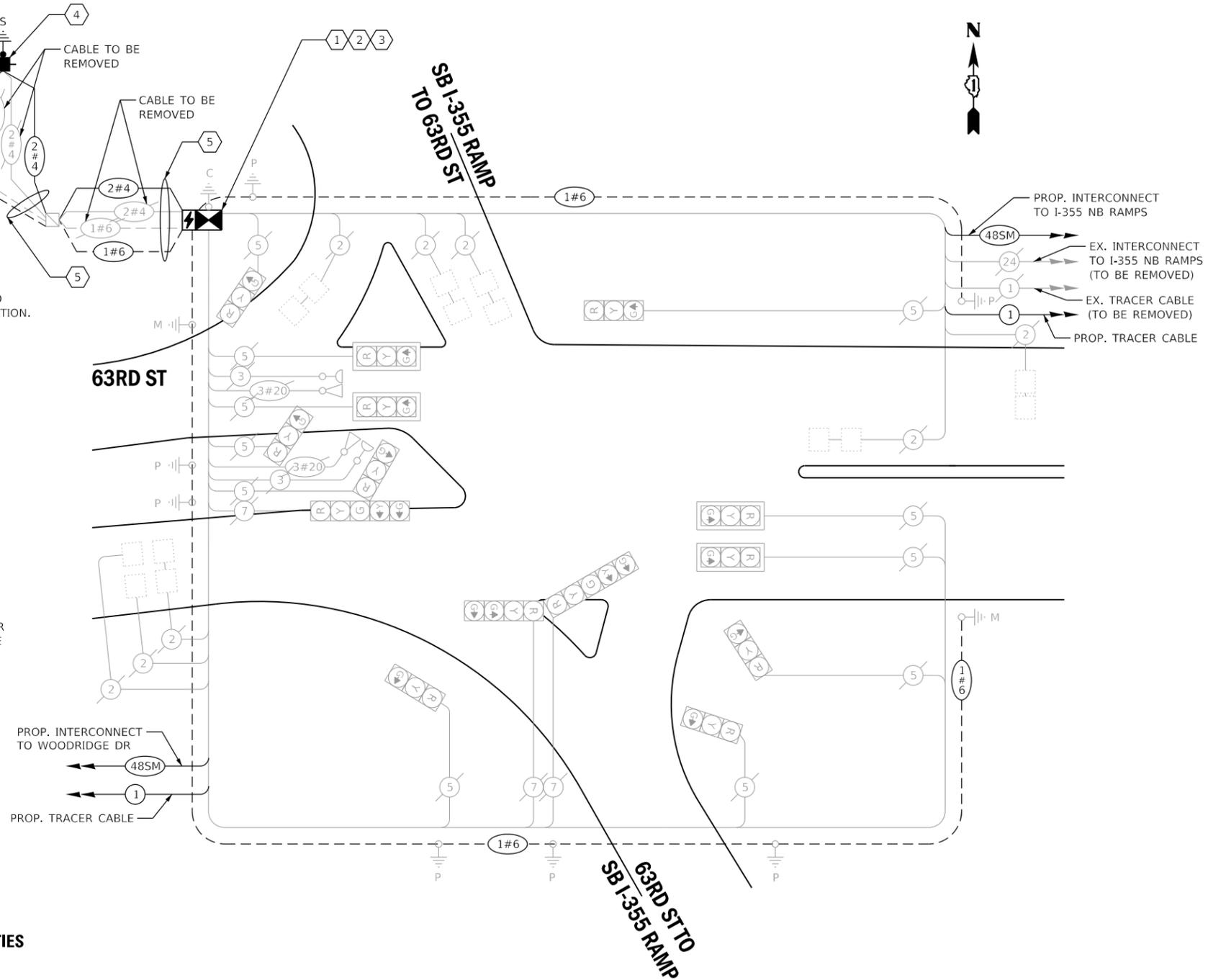
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
420	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
9	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
790	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
395	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

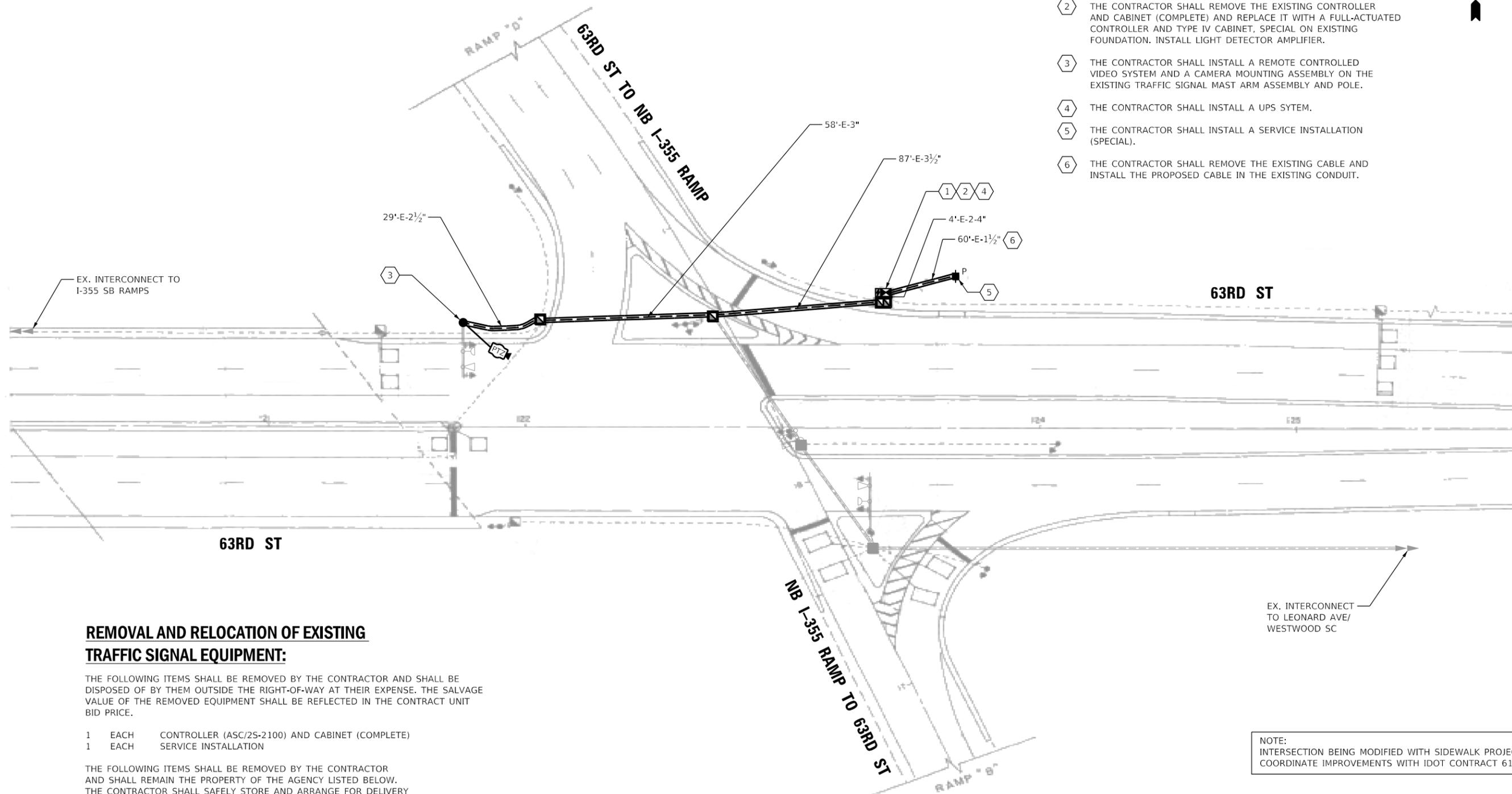
NOTE:
INTERSECTION BEING MODIFIED WITH SIDEWALK PROJECT.
COORDINATE IMPROVEMENTS WITH IDOT CONTRACT 61G89.

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



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.



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)
- 1 EACH SERVICE INSTALLATION

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 EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

NOTE:
INTERSECTION BEING MODIFIED WITH SIDEWALK PROJECT.
COORDINATE IMPROVEMENTS WITH IDOT CONTRACT 61G89.

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

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
39	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

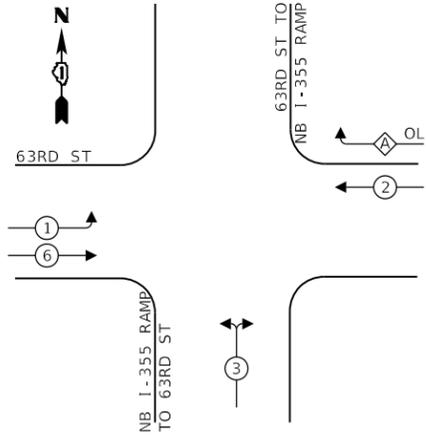
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
63RD ST AND I-355 NB RAMPS

SCALE: 1"=20' SHEET 14 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	32
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

EXISTING CONTROLLER SEQUENCE



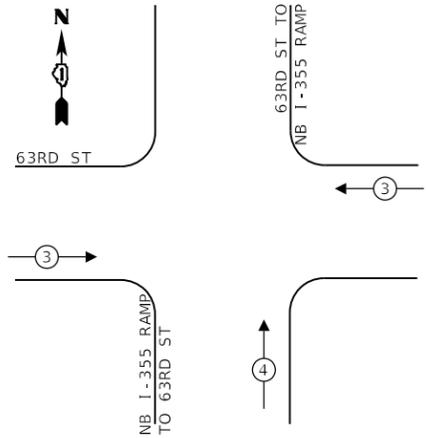
LEGEND:

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

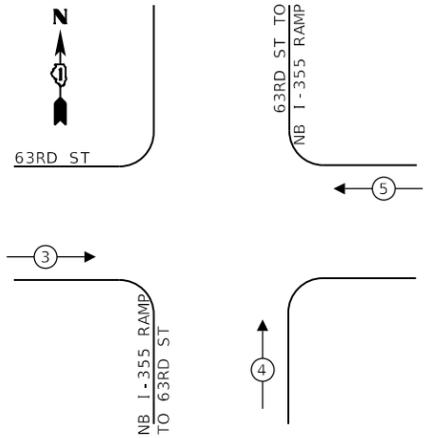
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED 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)	15	12	45	81
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	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	1	75	100	75
TOTAL =				372

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

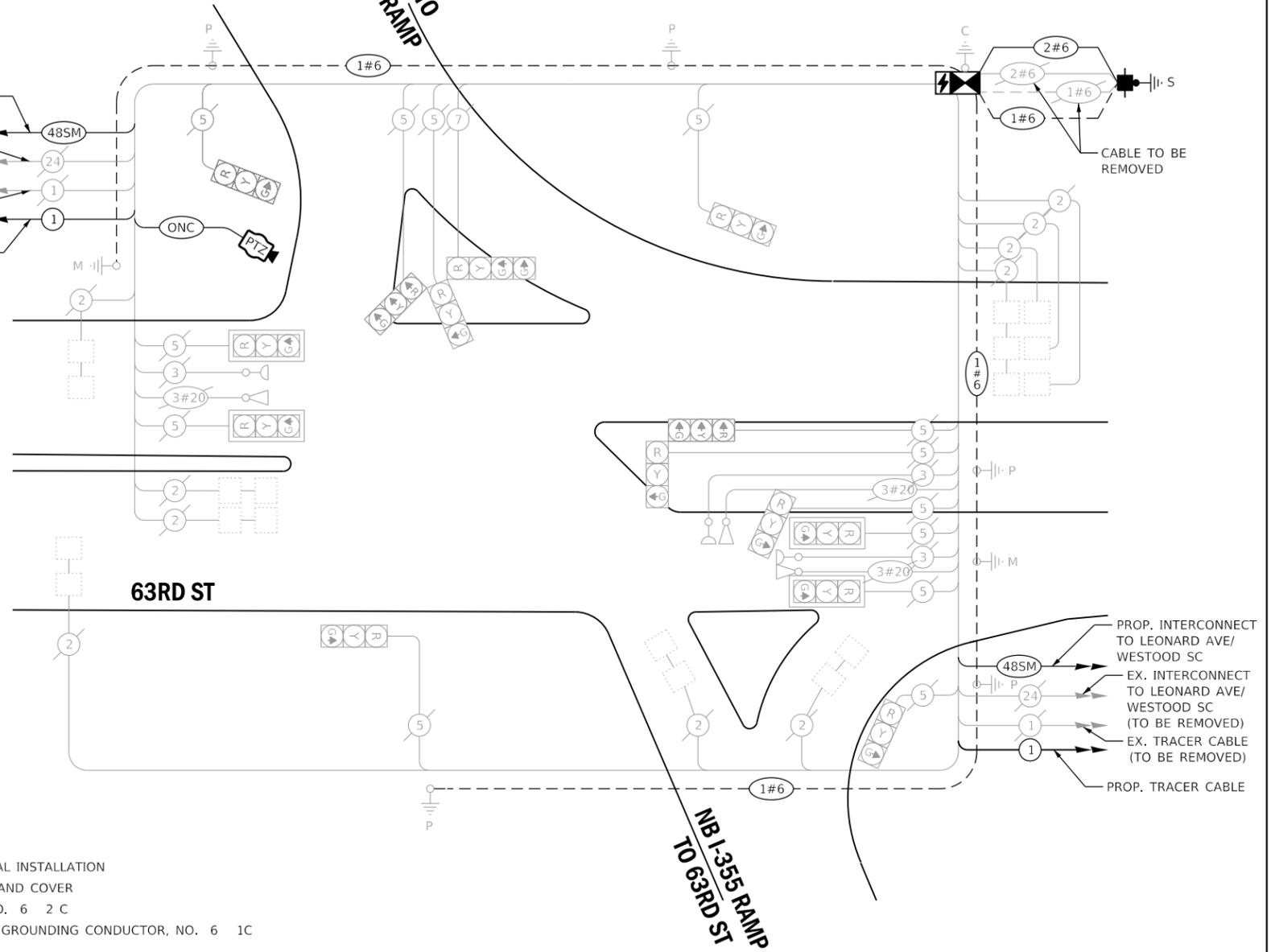
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	DESCRIPTION
6	EACH	EXISTING TRAFFIC SIGNAL INSTALLATION
80	FOOT	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
9	EACH	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	INDUCTIVE LOOP DETECTOR
120	FOOT	LIGHT DETECTOR AMPLIFIER
1	EACH	REMOVE ELECTRIC CABLE FROM CONDUIT
60	FOOT	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
255	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	OUTDOOR RATED NETWORK CABLE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	CAMERA MOUNTING ASSEMBLY

- PROP. INTERCONNECT TO I-355 SB RAMPS
- EX. INTERCONNECT TO I-355 SB RAMPS (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE



CABLE PLAN
(NOT TO SCALE)

NOTE:
INTERSECTION BEING MODIFIED WITH SIDEWALK PROJECT.
COORDINATE IMPROVEMENTS WITH IDOT CONTRACT 61G89.

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	39	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

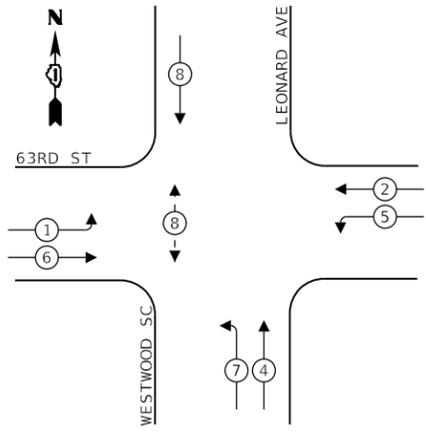
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND I-355 NB RAMPS**

SCALE: NTS SHEET 15 OF 172 SHEETS STA. TO STA.

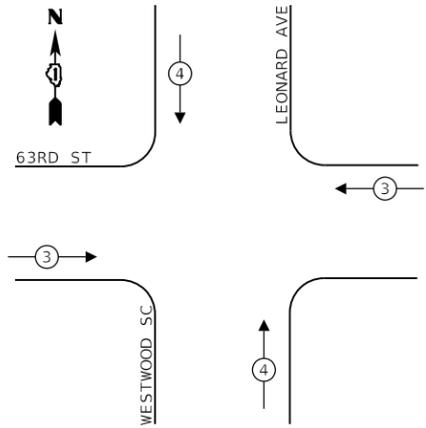
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	33
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

CONSTRUCTION NOTES:

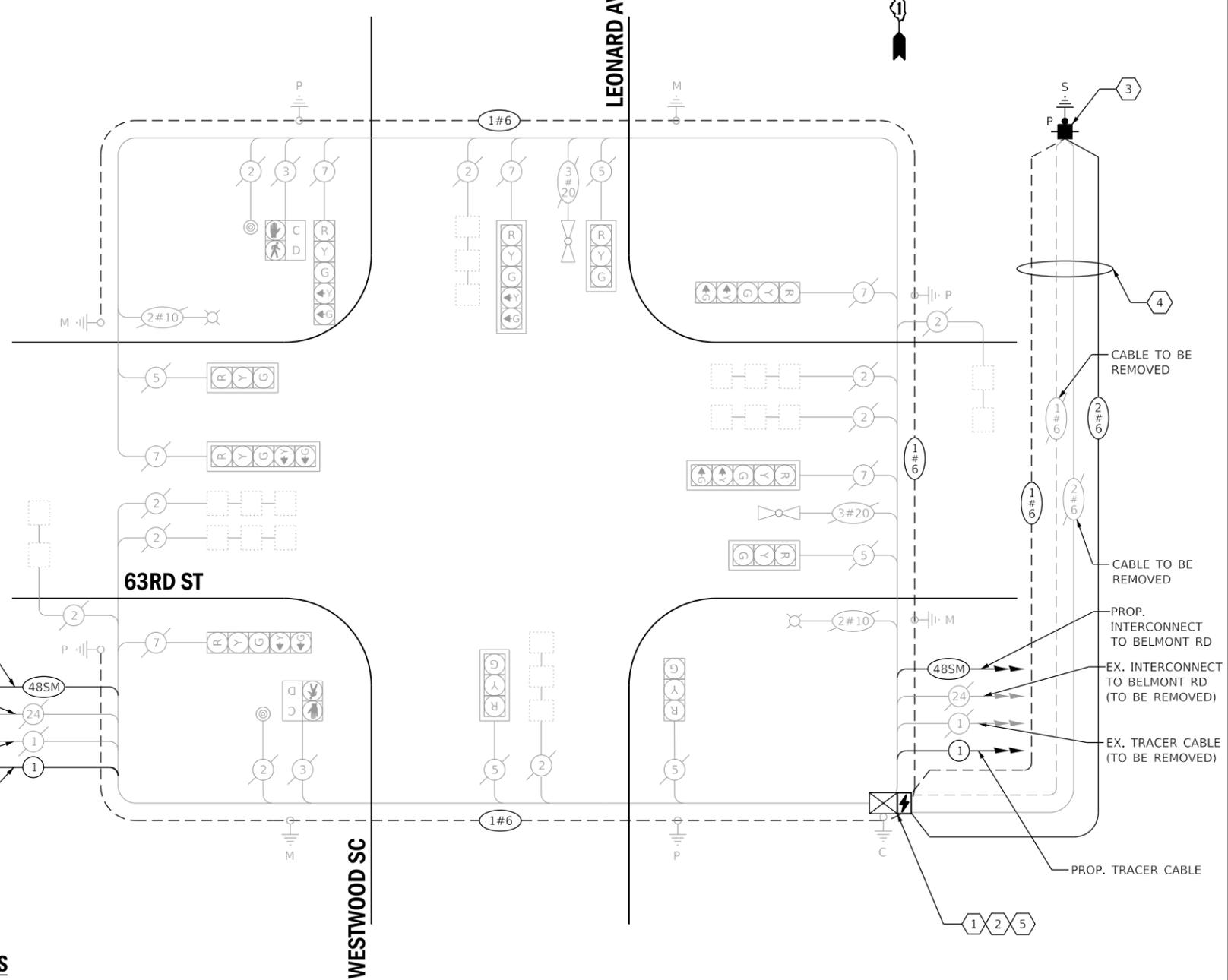
- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- ④ THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (100'-E-?).

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

- PROP. INTERCONNECT TO I-355
- EX. INTERCONNECT TO I-355 (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE



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	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	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				559

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:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
120	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1 C
200	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
100	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES

CABLE PLAN
(NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
41	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND LEONARD AVE-WESTWOOD SC

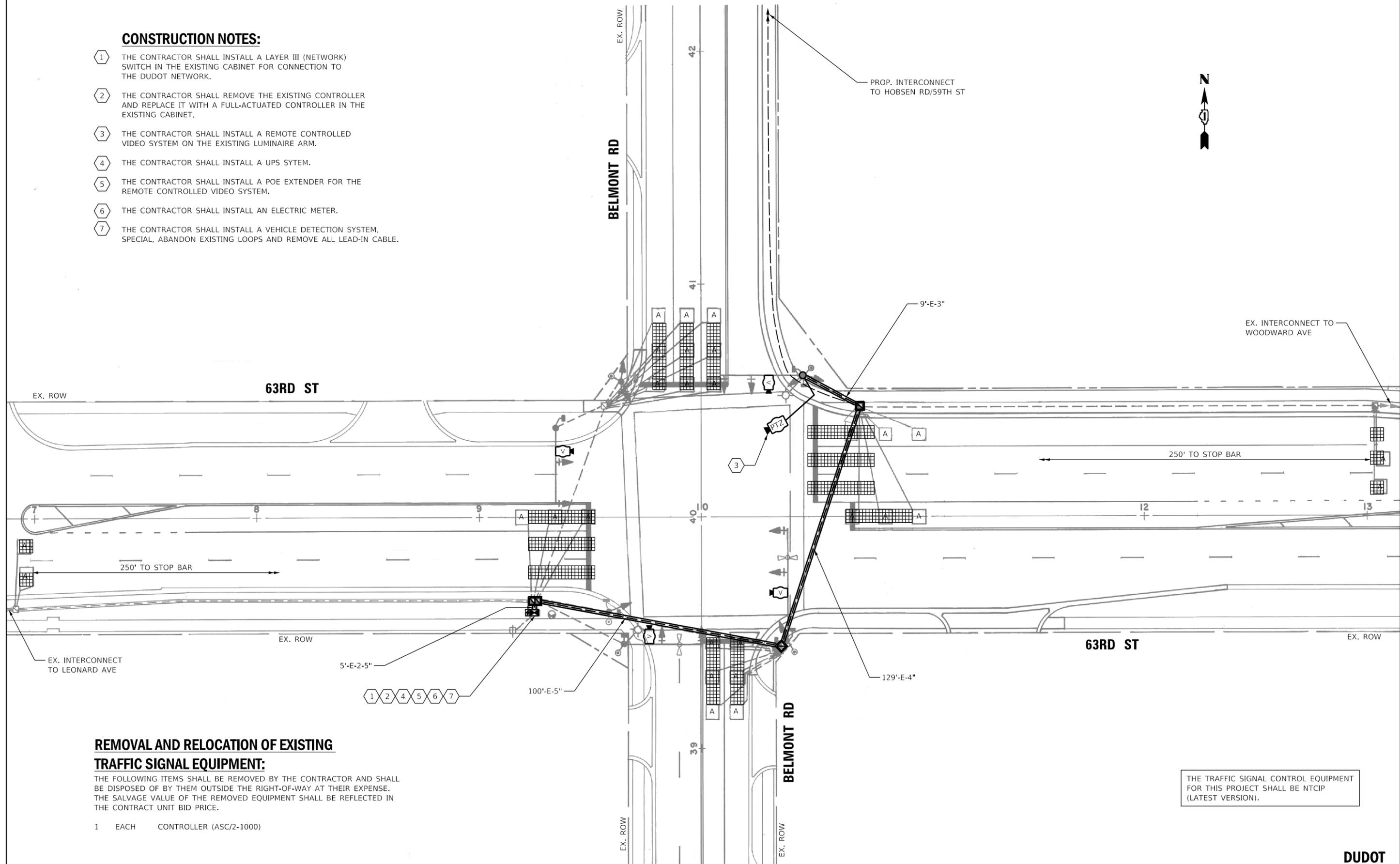
SCALE: NTS SHEET 16 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	34
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING 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 INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A POE EXTENDER FOR THE REMOTE CONTROLLED VIDEO SYSTEM.
- 6 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 7 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



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.

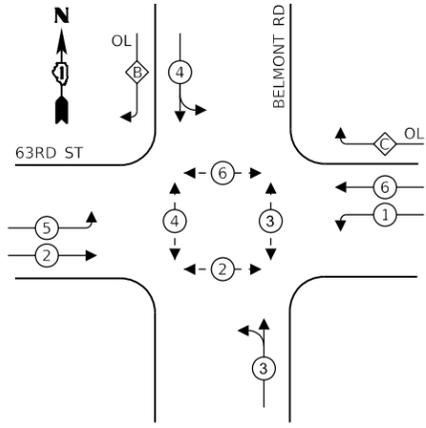
- 1 EACH CONTROLLER (ASC/2-1000)

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

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 63RD ST AND BELMONT RD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	47	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	35
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 17	OF 172 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22		
	PLOT DATE = 8/2/2021	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-63rd-ts-plan.dgn
Int47

EXISTING CONTROLLER SEQUENCE



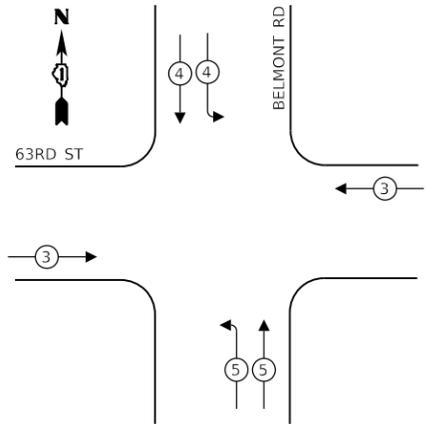
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

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)	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	-	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 =				815

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

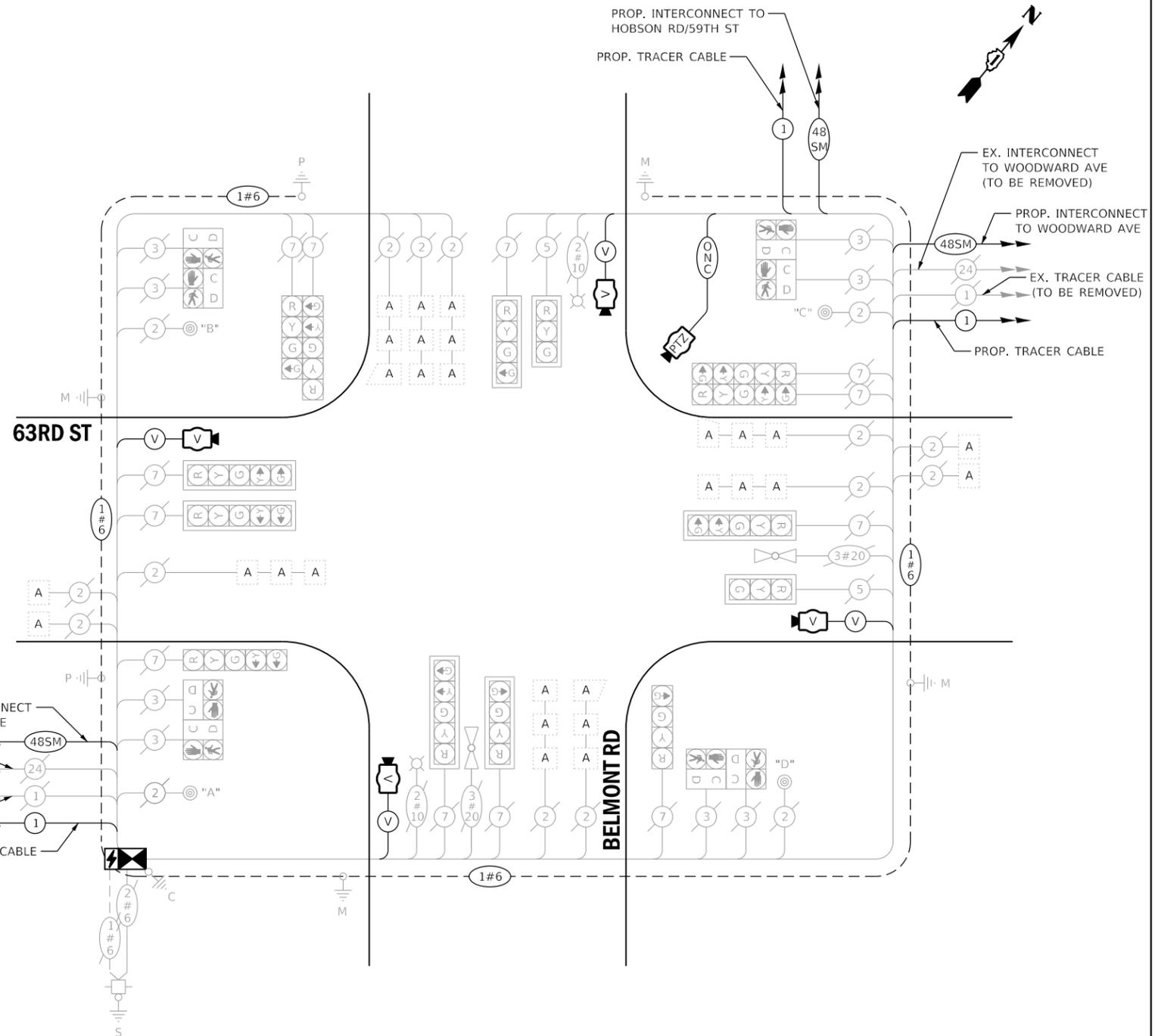
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	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
2385	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
350	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

- PROP. INTERCONNECT TO LEONARD AVE
- EX. INTERCONNECT CABLE TO LEONARD AVE (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE



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 3
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 2 AND 3

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	47	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000" / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

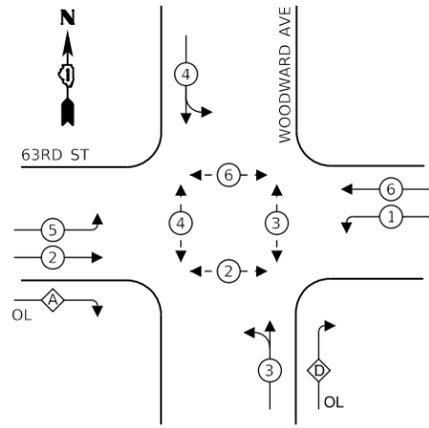
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND BELMONT RD

SCALE: NTS SHEET 18 OF 172 SHEETS STA. TO STA.

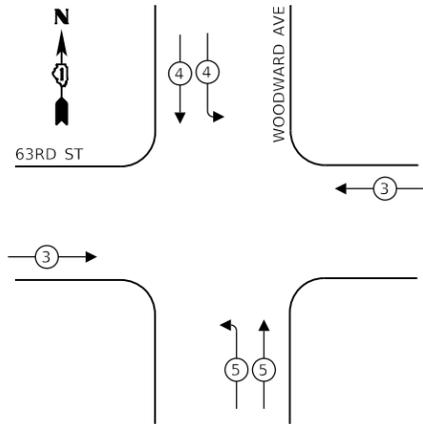
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	36
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

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
A	= 2	+ 3
D	= 3	+ 6

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 UPS SYSTEM.
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION - POLE MOUNTED.
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (30"E-2").

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/2-1000)
- 1 EACH SERVICE INSTALLATION

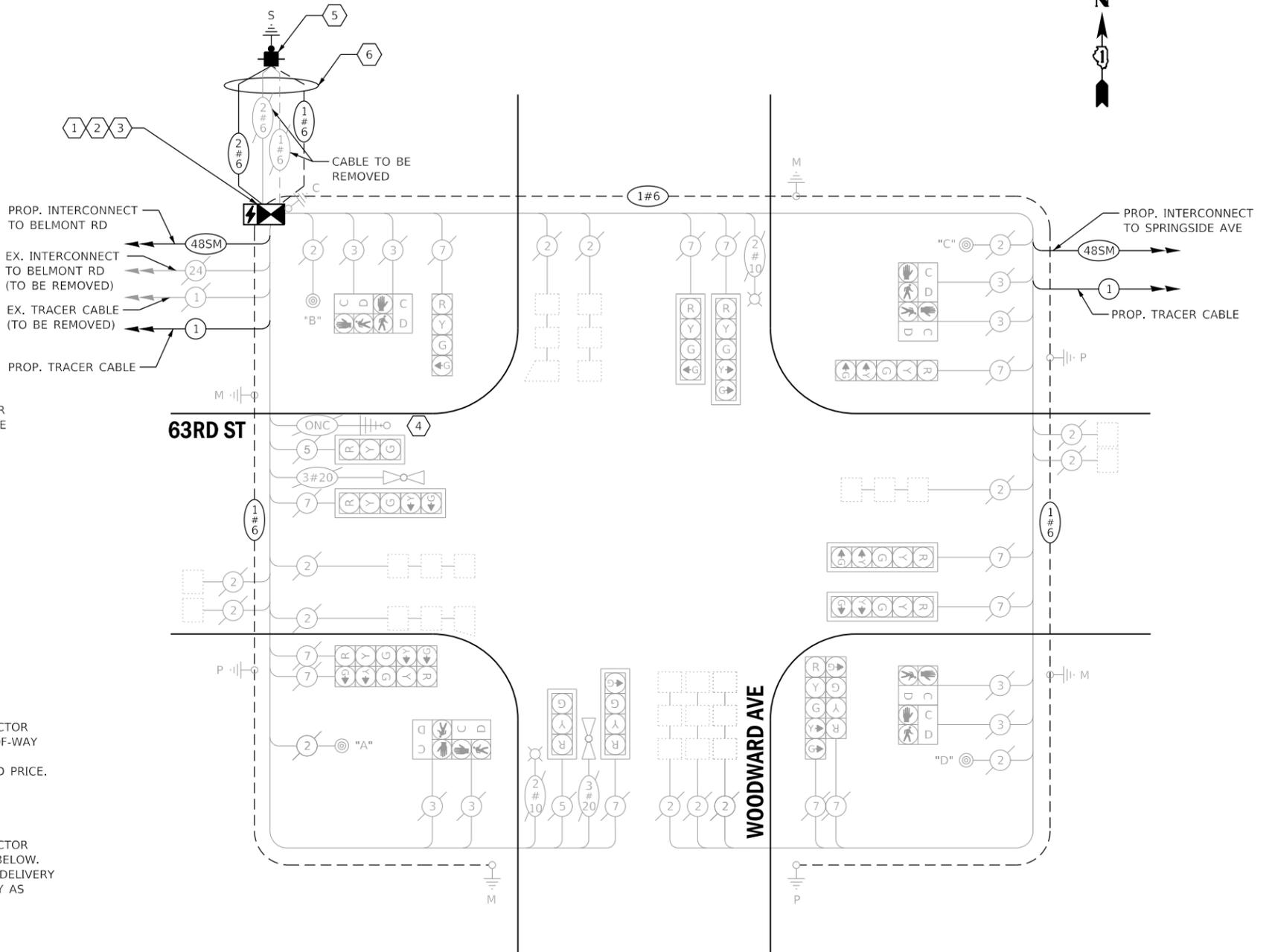
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH WIRELESS INTERCONNECT (COMPLETE)

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
50	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
60	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
30	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH



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 3
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 2 AND 3

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

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)	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	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				740

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:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
46	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

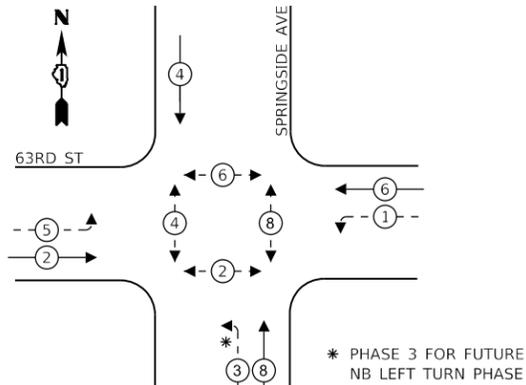
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
 63RD ST AND WOODWARD AVE

SCALE: NTS SHEET 19 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	37
				CONTRACT NO. 61H22

DUDOT

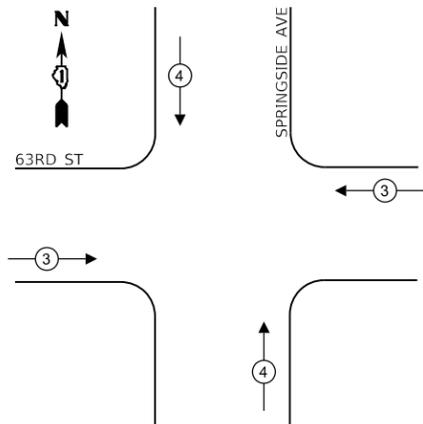
EXISTING CONTROLLER SEQUENCE



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 EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).

REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

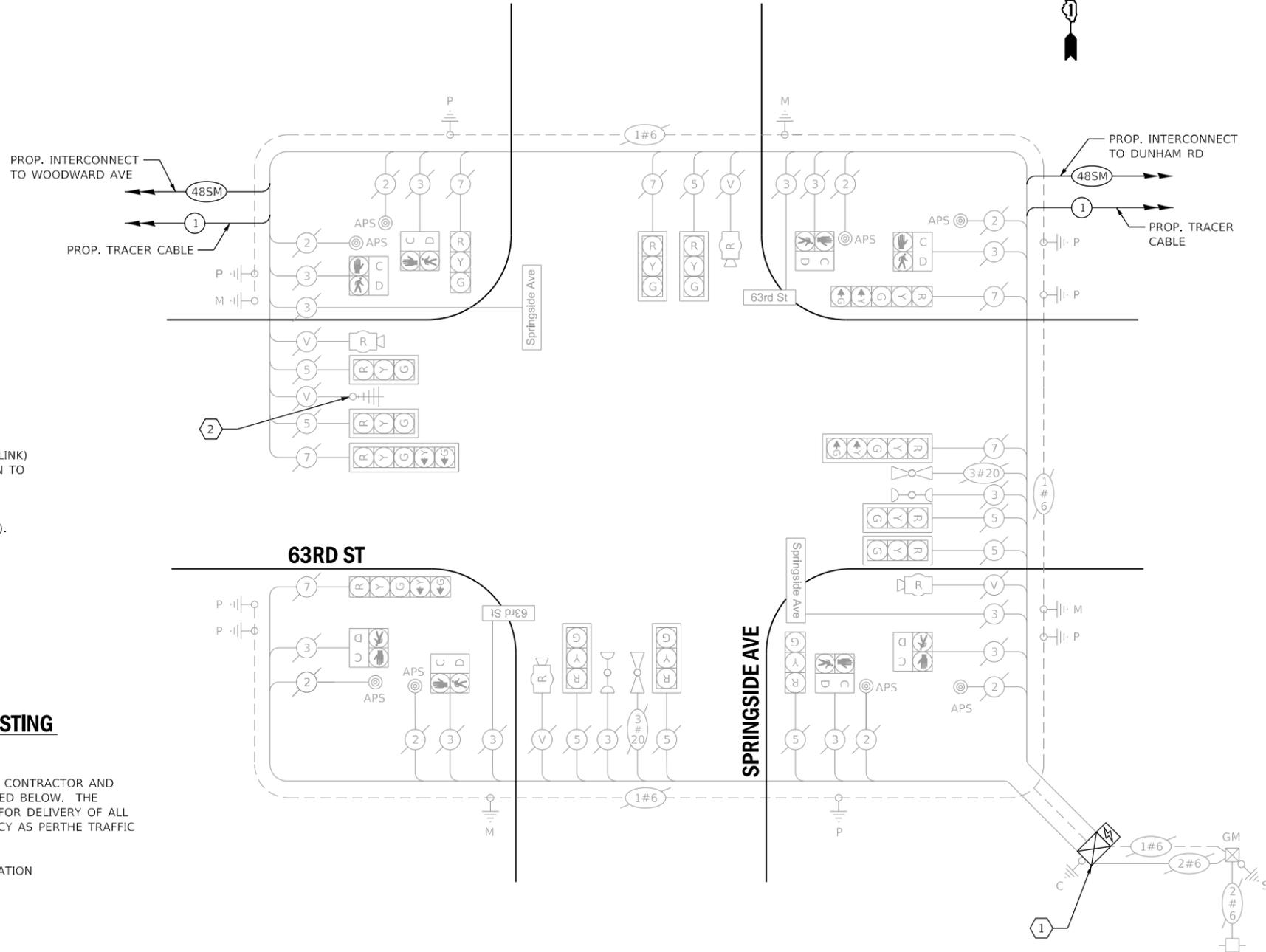
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH WIRELESS INTERCONNECT (COMPLETE)

SCHEDULE OF QUANTITIES

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



CABLE PLAN
(NOT TO SCALE)

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	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	4	120	50	240
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				850

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:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
119	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND SPRINGSIDE AVE

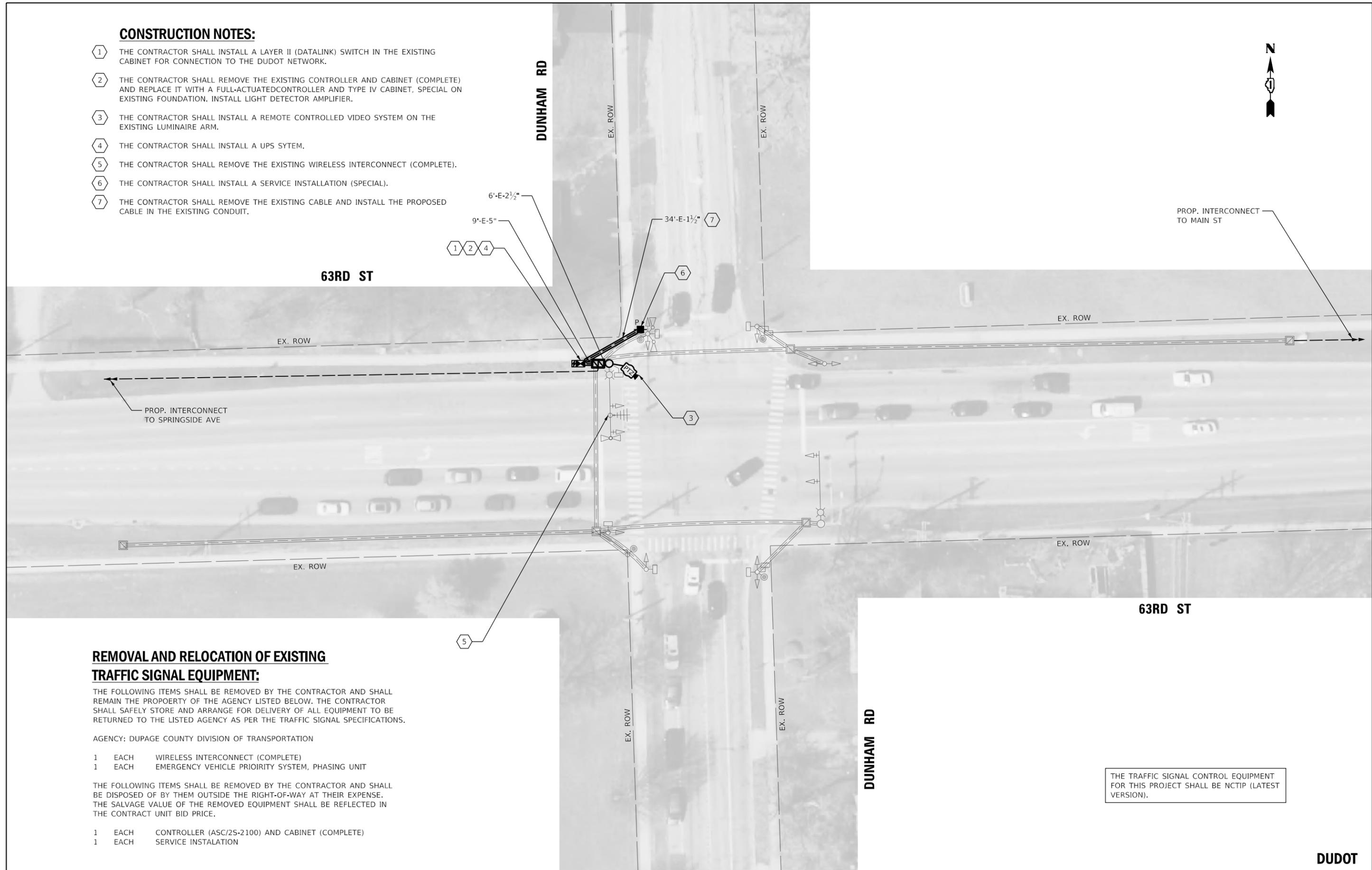
SCALE: NTS SHEET 20 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-03-TL	DUPAGE	307	38
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).
- 6 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 7 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.



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 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 WIRELESS INTERCONNECT (COMPLETE)
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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.

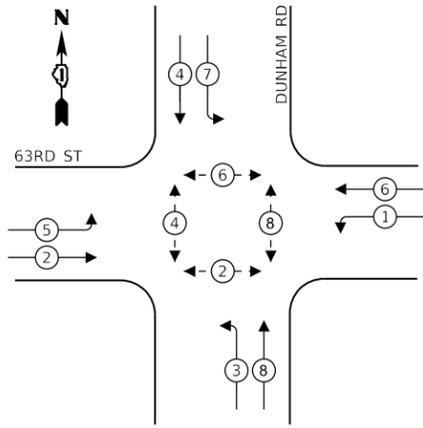
- 1 EACH CONTROLLER (ASC/25-2100) AND CABINET (COMPLETE)
- 1 EACH SERVICE INSTALLATION

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

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 63RD ST AND DUNHAM RD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	37	DRAWN - RG	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	39
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -			CONTRACT NO. 61H22				
	PLOT DATE = 8/2/2021	DATE -	REVISED -		SCALE: 1"=20'	SHEET 21	OF 172 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-63rd-ts-plan.dgn
Int37

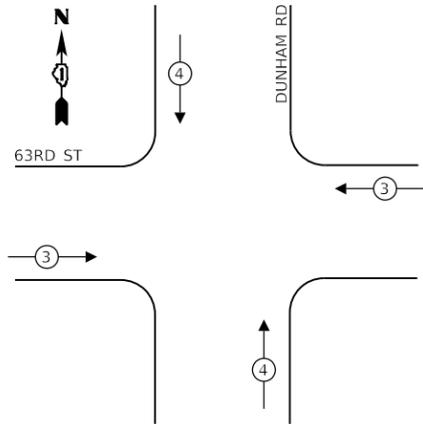
EXISTING CONTROLLER SEQUENCE



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	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	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				793

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

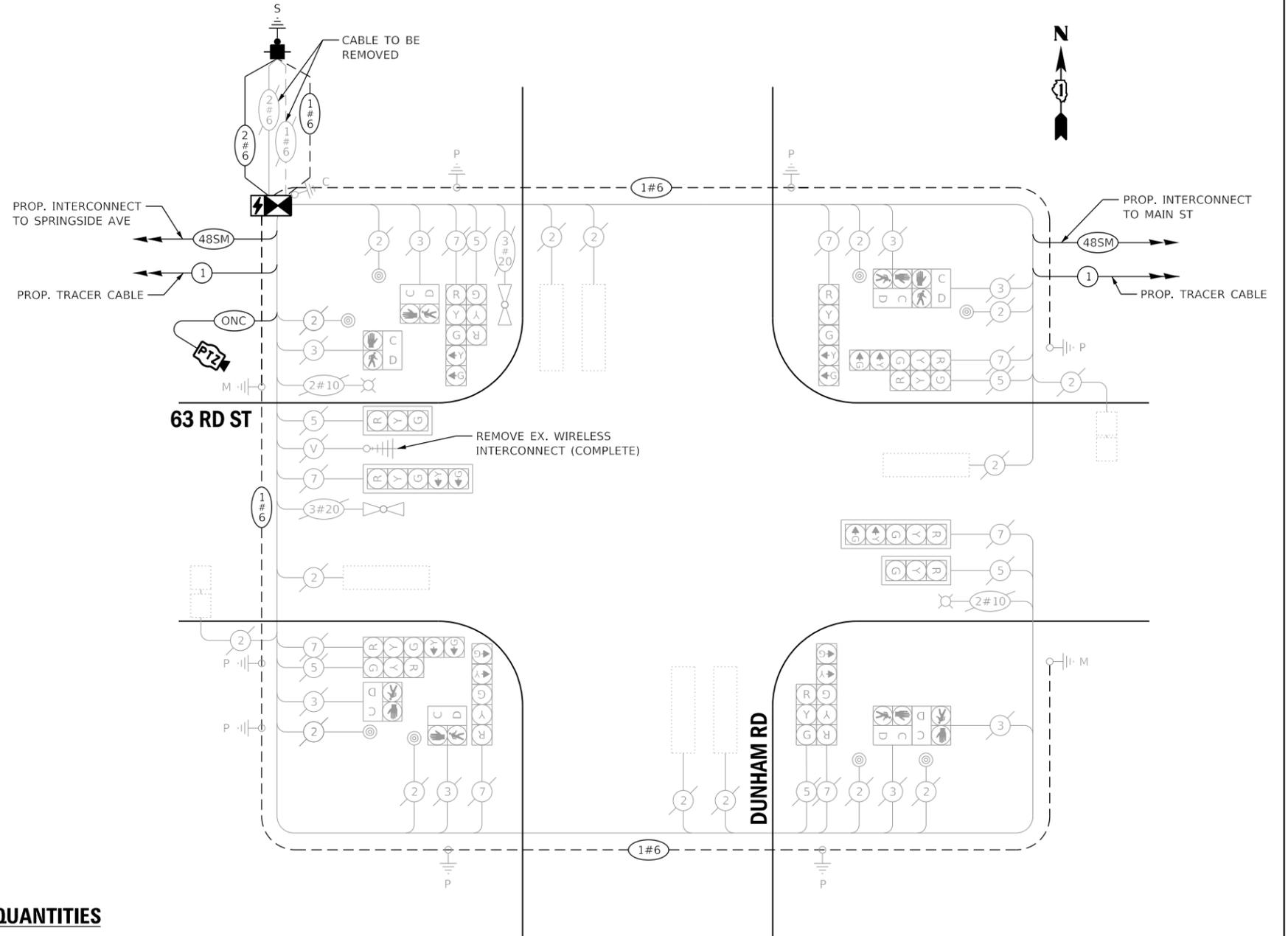
ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER: _____

TOTAL QUANTITY

TOTAL QUANTITY	UNITS
1	EACH
4	EACH
55	FOOT
750	FOOT
8	EACH
1	EACH
68	FOOT
1	EACH
34	FOOT
105	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT
INDUCTIVE LOOP DETECTOR	EACH
LIGHT DETECTOR AMPLIFIER	EACH
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH
ROD AND CLEAN EXISTING CONDUIT	FOOT
OUTDOOR RATED NETWORK CABLE	FOOT
FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH
SERVICE INSTALLATION (SPECIAL)	EACH
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH
REMOTE CONTROLLED VIDEO SYSTEM	EACH
LAYER II (DATALINK) SWITCH	EACH



**CABLE PLAN
(NOT TO SCALE)**

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

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
37	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

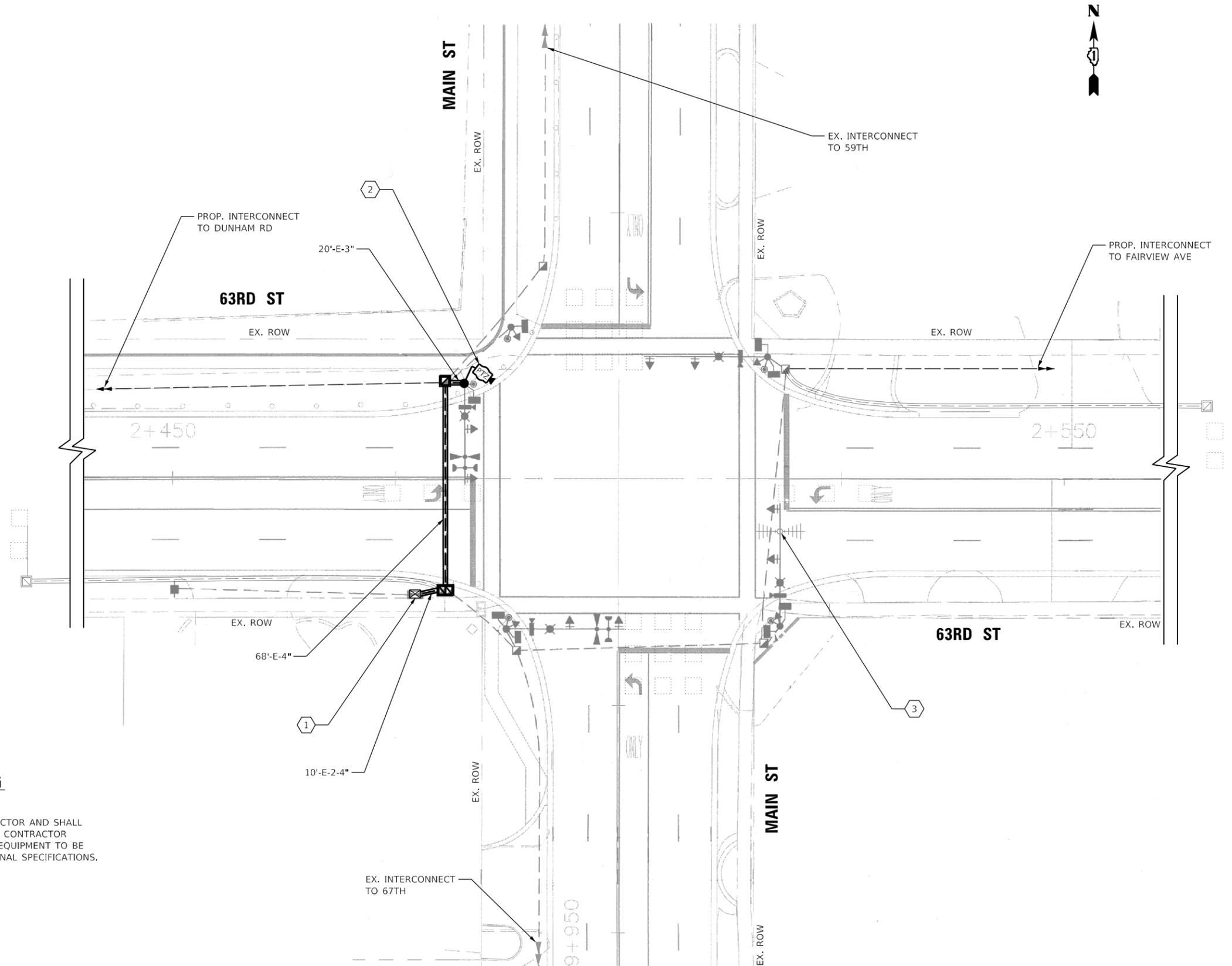
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND DUNHAM RD**

SCALE: NTS SHEET 22 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	40
CONTRACT NO. 61H22			ILLINOIS FED. AID PROJECT	

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING 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 INTERCONNECTS (COMPLETE).



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 DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 2 EACH WIRELESS INTERCONNECT (COMPLETE)

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
42	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

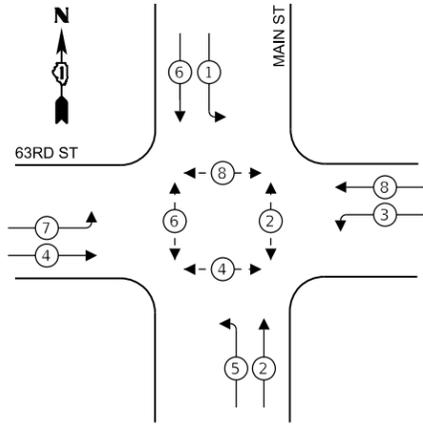
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
63RD ST AND MAIN ST

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	41
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET 23 OF 172 SHEETS STA. TO STA.

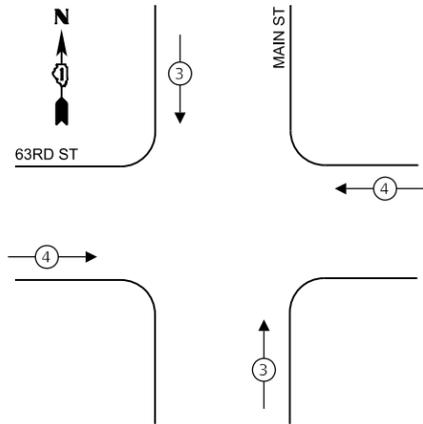
EXISTING CONTROLLER SEQUENCE



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	-	25	100	-
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 =				994

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

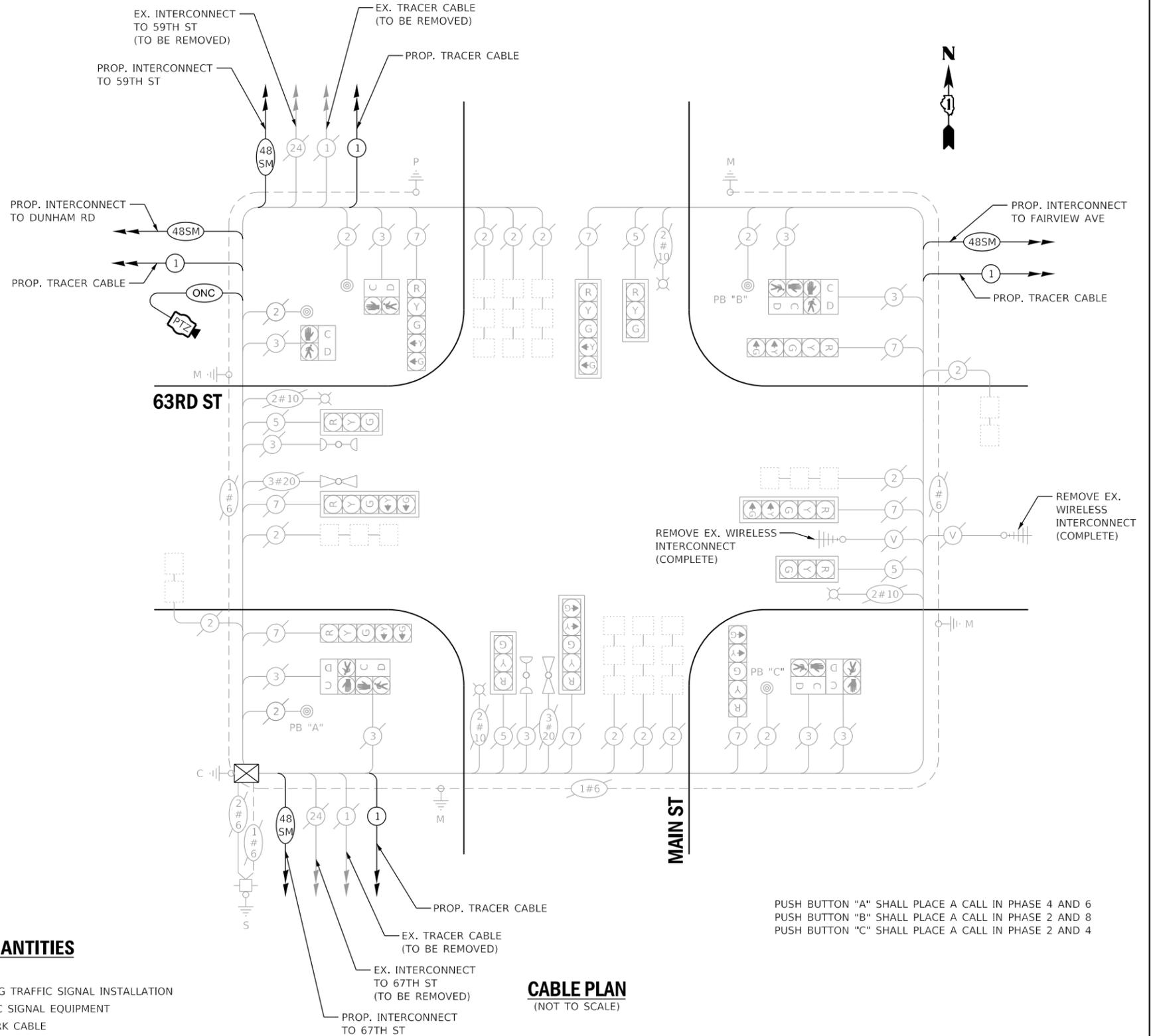
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
190	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
190	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH



**CABLE PLAN
(NOT TO SCALE)**

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	42	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

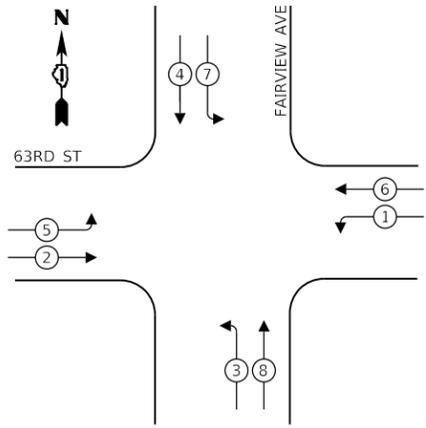
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND MAIN ST**

SCALE: NTS SHEET 24 OF 172 SHEETS STA. TO STA.

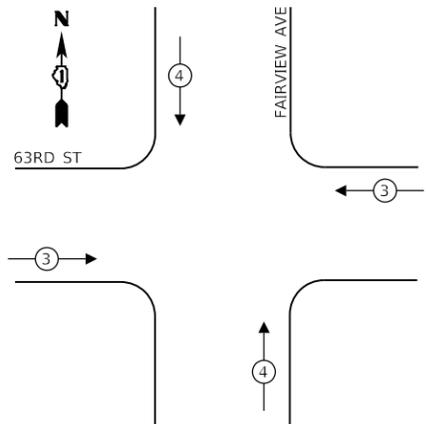
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	42
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION 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 EXISTING 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 UPS SYSTEM.
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).
- 5 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

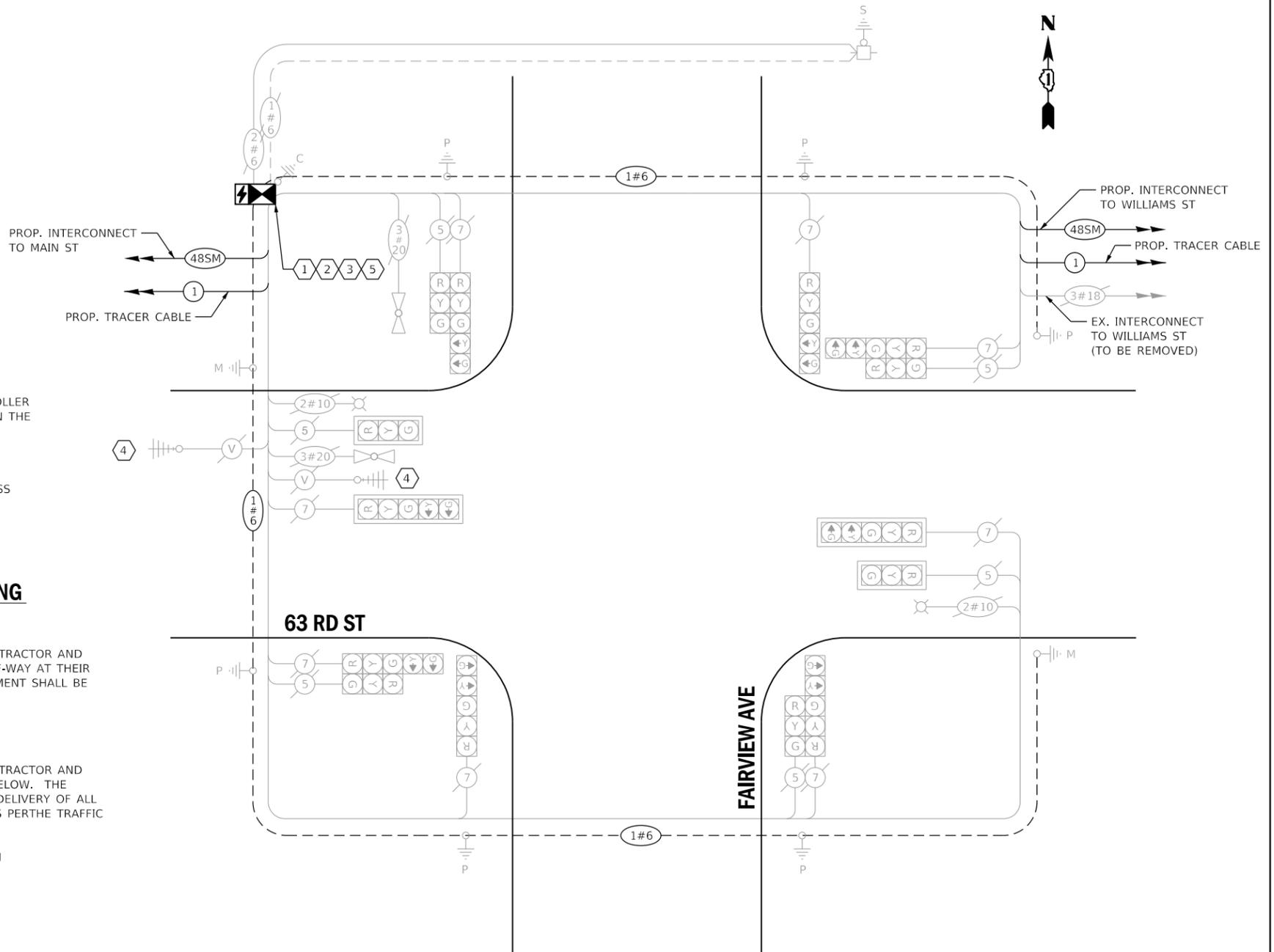
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/2-2000)

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

- 2 EACH WIRELESS INTERCONNECT (COMPLETE)



CABLE PLAN
(NOT TO SCALE)

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

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	16	10	10	16
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 =				558

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

TOTAL QUANTITY	UNITS	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	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND FAIRVIEW AVE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	43
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

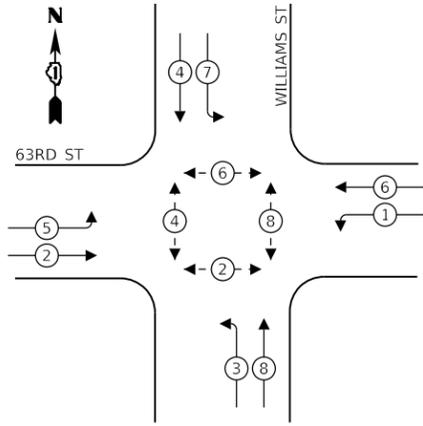
SCALE: NTS SHEET 25 OF 172 SHEETS STA. TO STA.

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
38	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

EXISTING CONTROLLER SEQUENCE



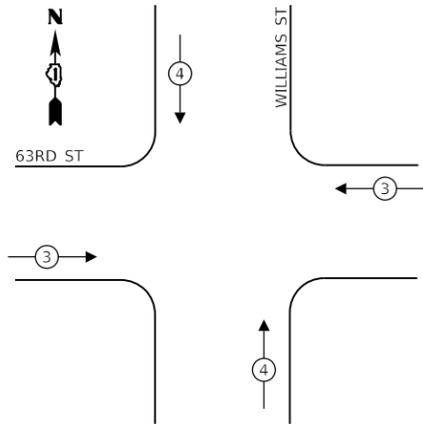
LEGEND:

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 UPS SYSTEM.
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (12'-E-X").

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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/25-1000)
- 1 EACH SERVICE INSTALLATION

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 WIRELESS INTERCONNECT (COMPLETE)

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	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				670

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

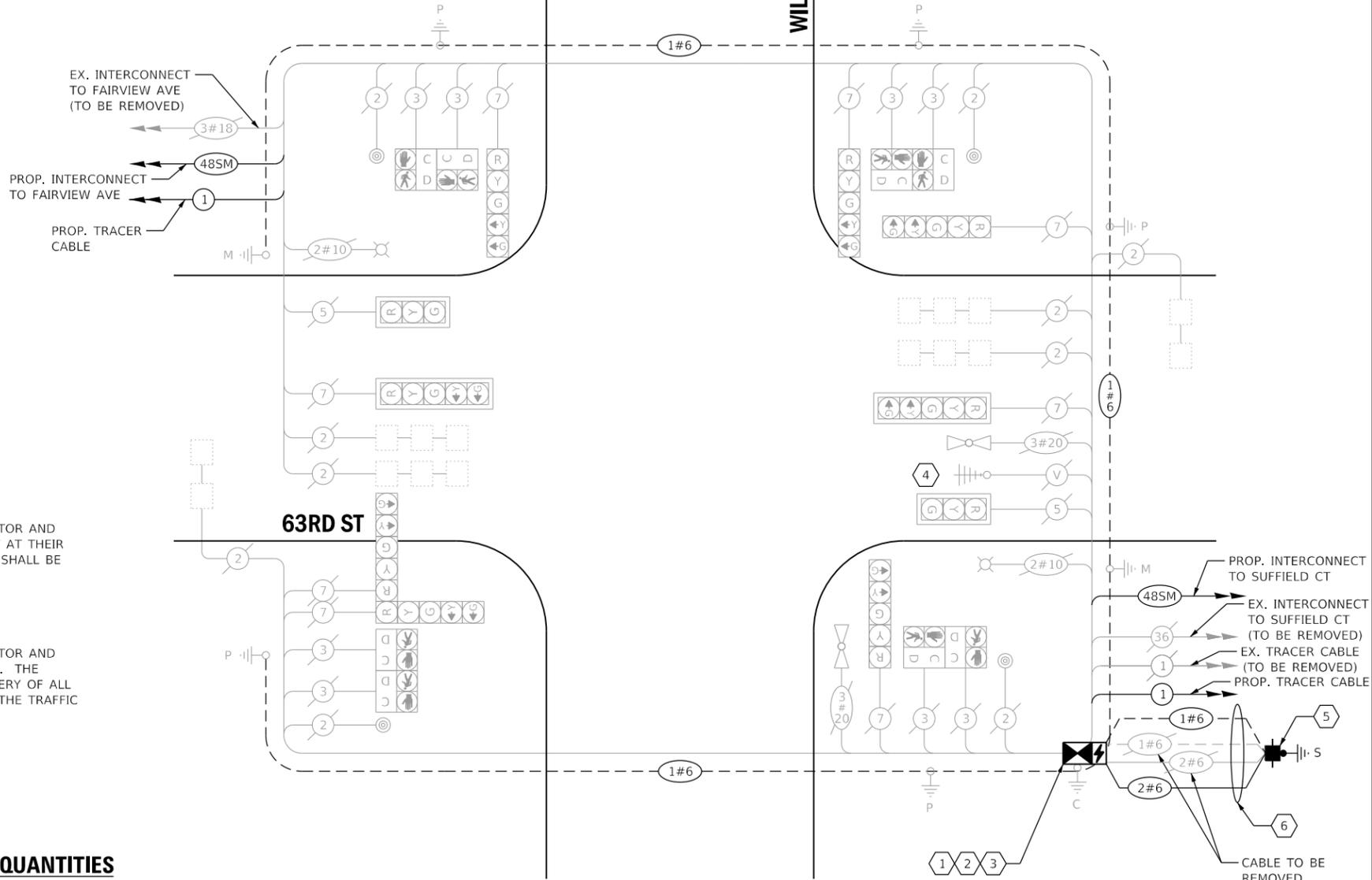
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
30	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
24	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CABLE PLAN
(NOT TO SCALE)

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

DUDOT



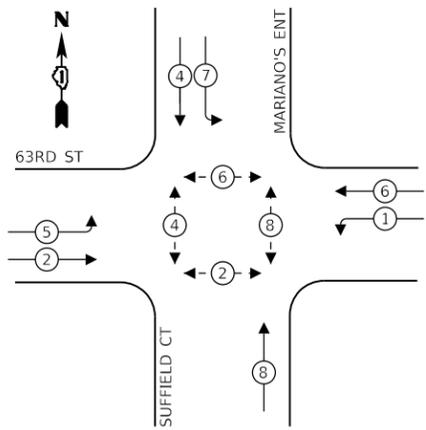
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45	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND WILLIAMS ST

SCALE: NTS SHEET 26 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	44
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

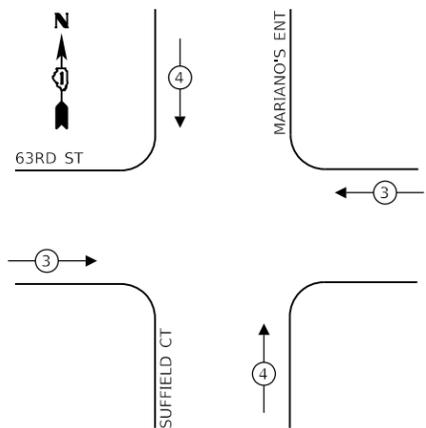
EXISTING CONTROLLER SEQUENCE



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)	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	-	120	50	-
LUMINAIRE	1	250	50	125
PTZ CAMERA	-	75	100	-
TOTAL =				601

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:

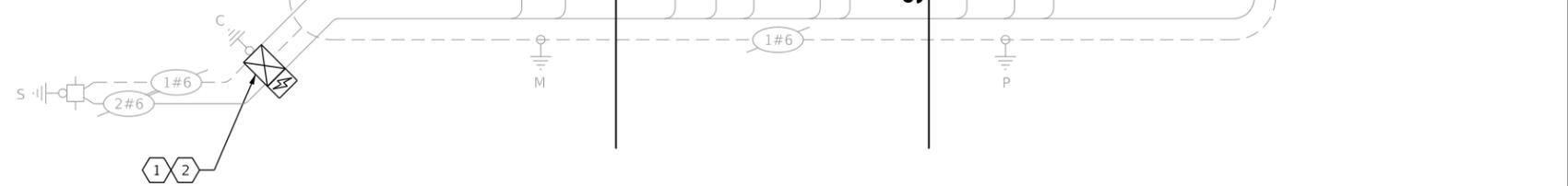
CONSTRUCTION NOTES:

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

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL LAYER II (DATALINK) SWITCH
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

- PROP. INTERCONNECT TO WILLIAMS ST
- EX. INTERCONNECT TO WILLIAMS ST (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE



**CABLE PLAN
(NOT TO SCALE)**



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
44	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND SUFFIELD CT-MARIANO'S ENT**

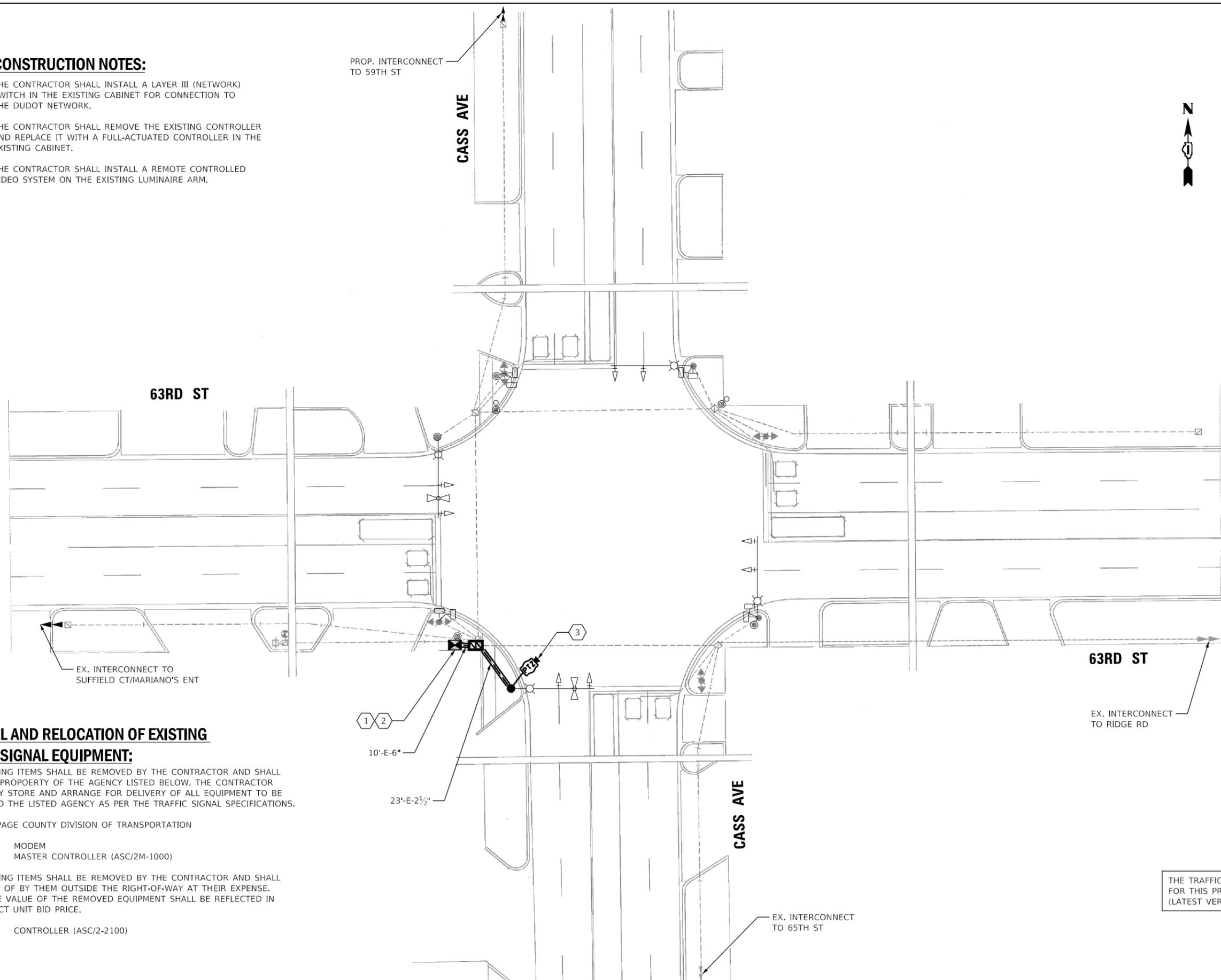
SCALE: NTS SHEET 27 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	45
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING 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.



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

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)

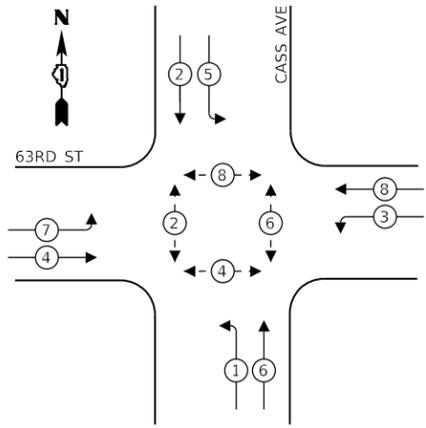
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 63RD ST AND CASS AVE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	36	DRAWN - RG	REVISED -						VAR.	19-DCCSS-03-TL	DUPAGE	307	46
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 28	OF 172 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22			
	PLOT DATE = 8/2/2021	DATE -	REVISED -					ILLINOIS FED. AID PROJECT					

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-63rd-ts-plan.dgn
Int36

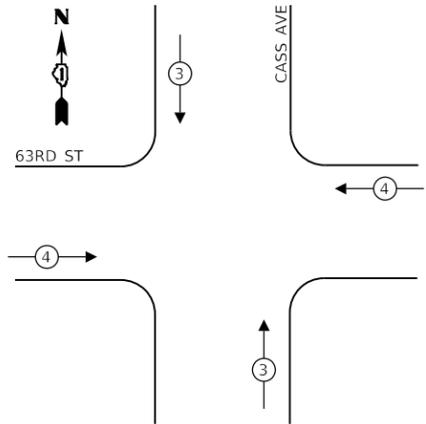
EXISTING CONTROLLER SEQUENCE



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)	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	-	25	100	-
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375
PTZ CAMERA	1	75	100	75
TOTAL =				917

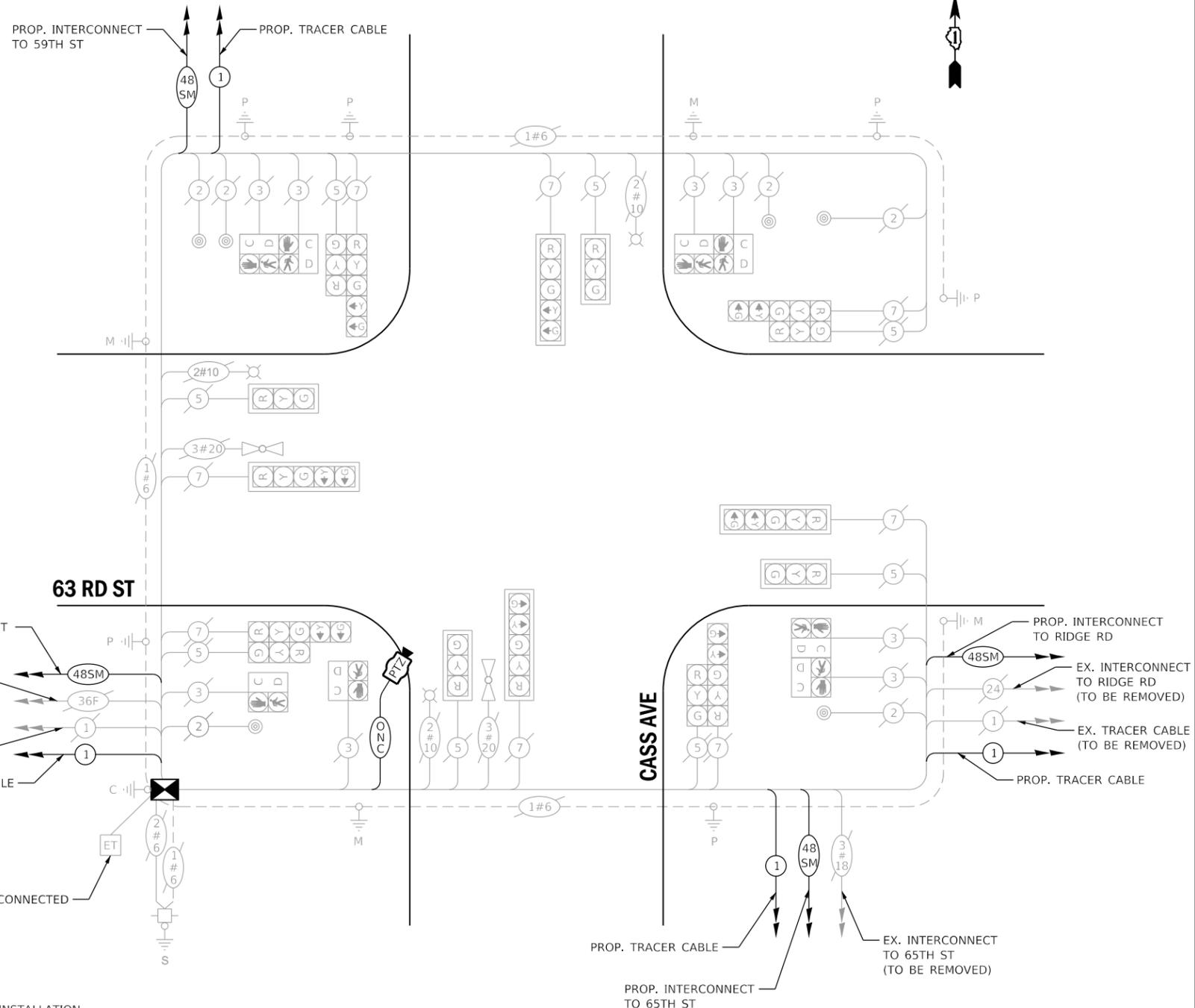
ENERGY COSTS TO:
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
120	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
36	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

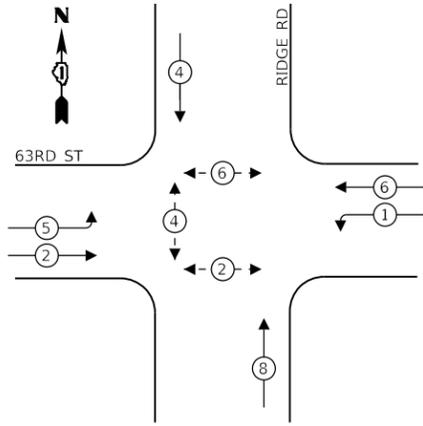
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND CASS AVE

SCALE: NTS SHEET 29 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	47
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

DUDOT

EXISTING CONTROLLER SEQUENCE



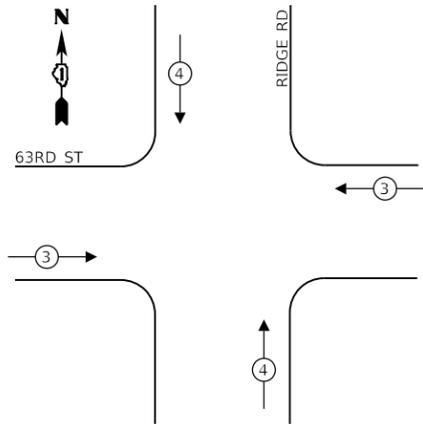
LEGEND:

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

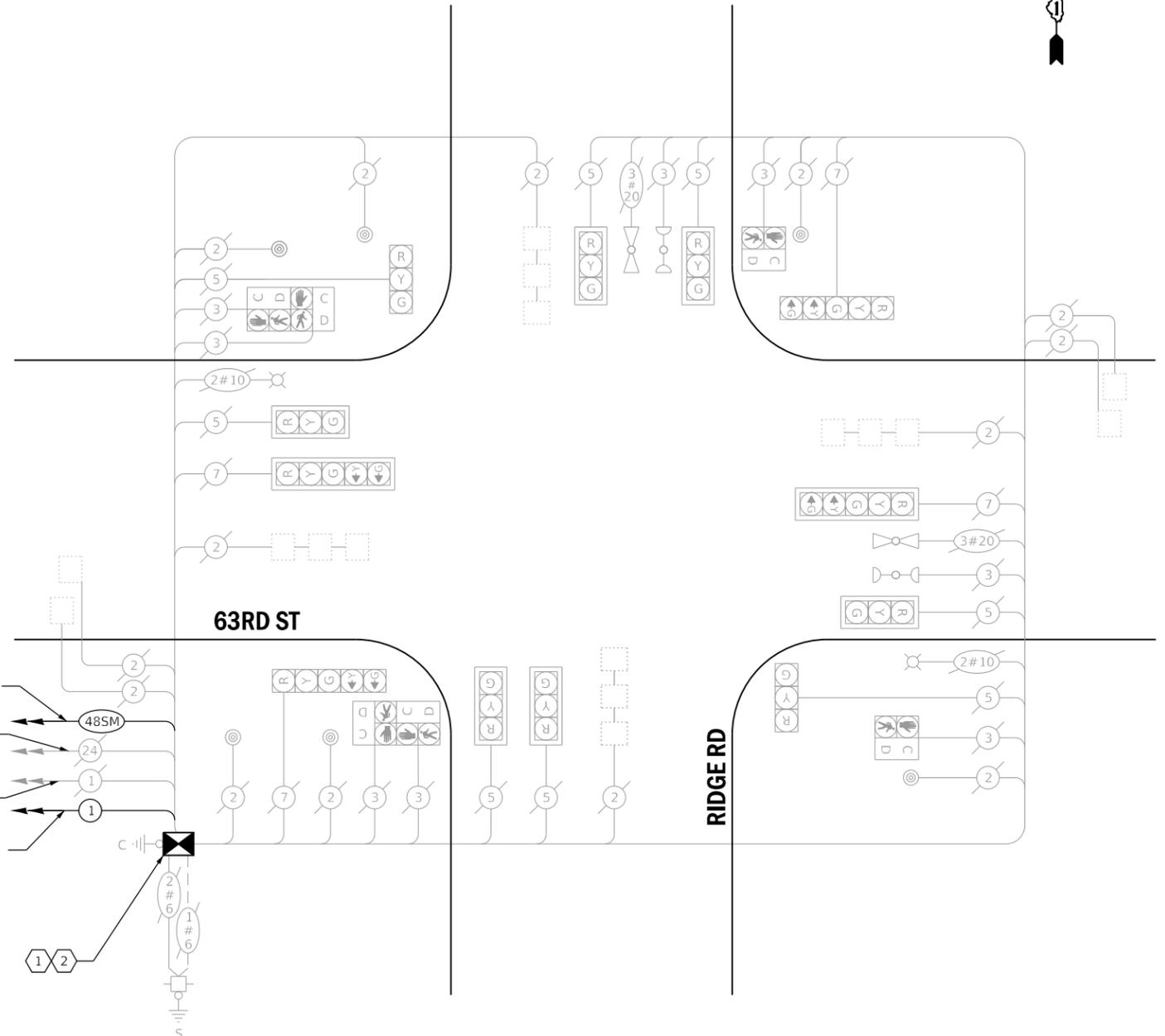


REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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/25-1000)

- PROP. INTERCONNECT TO CASS AVE
- EX. INTERCONNECT TO CASS AVE (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE



CABLE PLAN
(NOT TO SCALE)

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

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	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	-
TOTAL =				621

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES

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:

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	43	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
63RD ST AND RIDGE RD

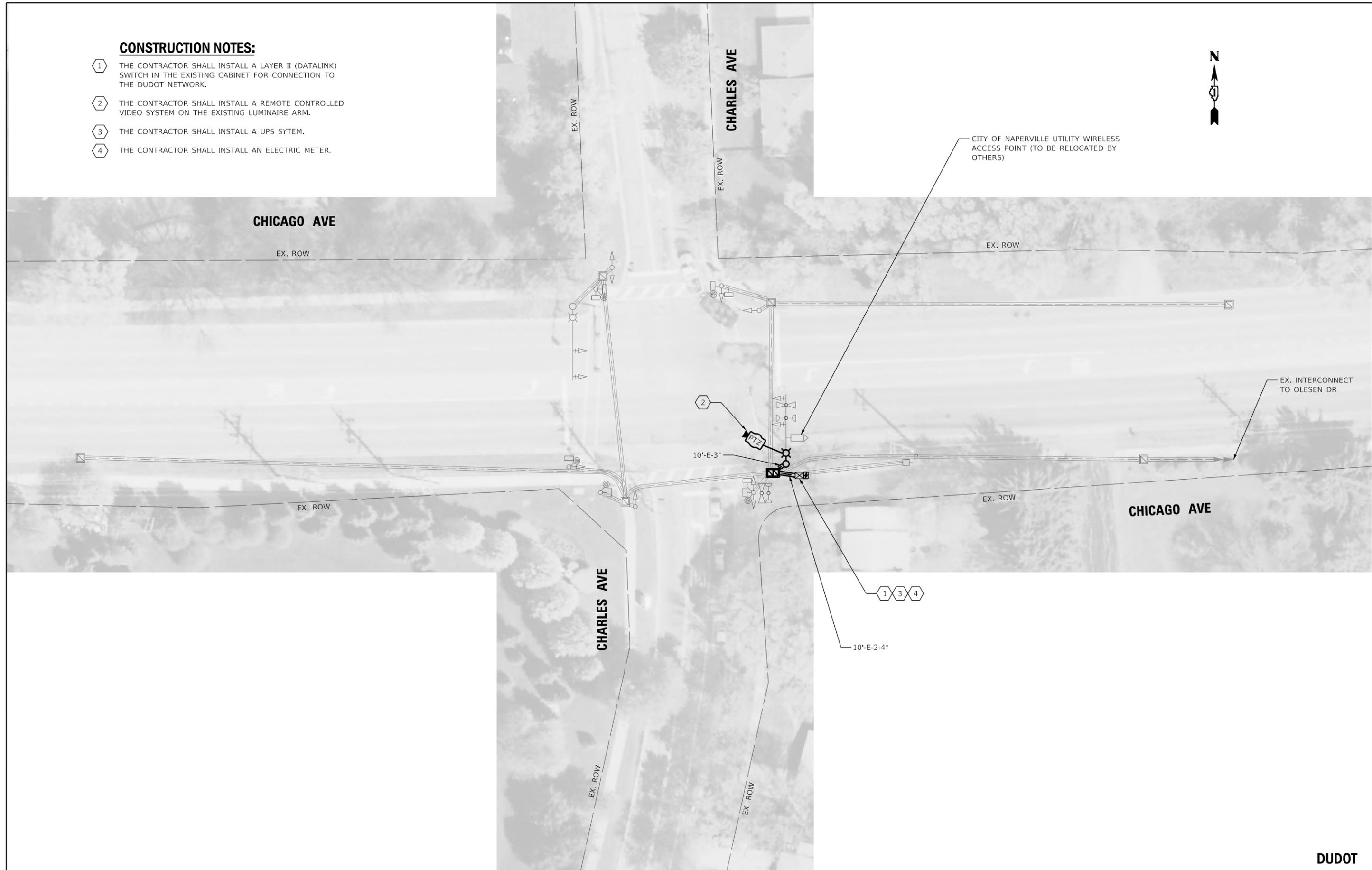
SCALE: NTS SHEET 30 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	48
				CONTRACT NO. 61H22
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 UPS SYSTEM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -
	98	DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

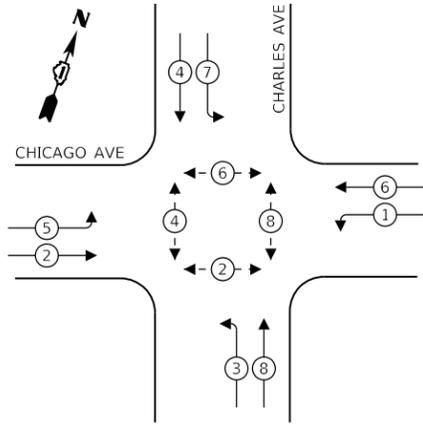
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
CHICAGO AVE AND CHARLES AVE**

SCALE: 1"=20' SHEET 31 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	49
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

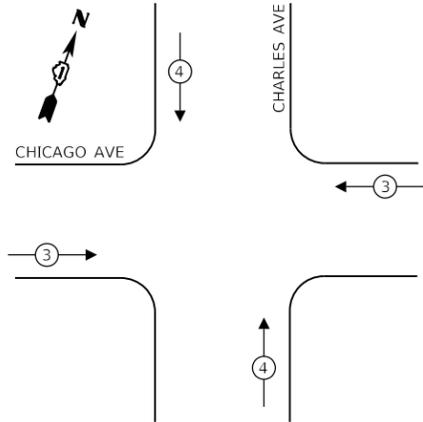
EXISTING CONTROLLER SEQUENCE



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	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				769

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: _____

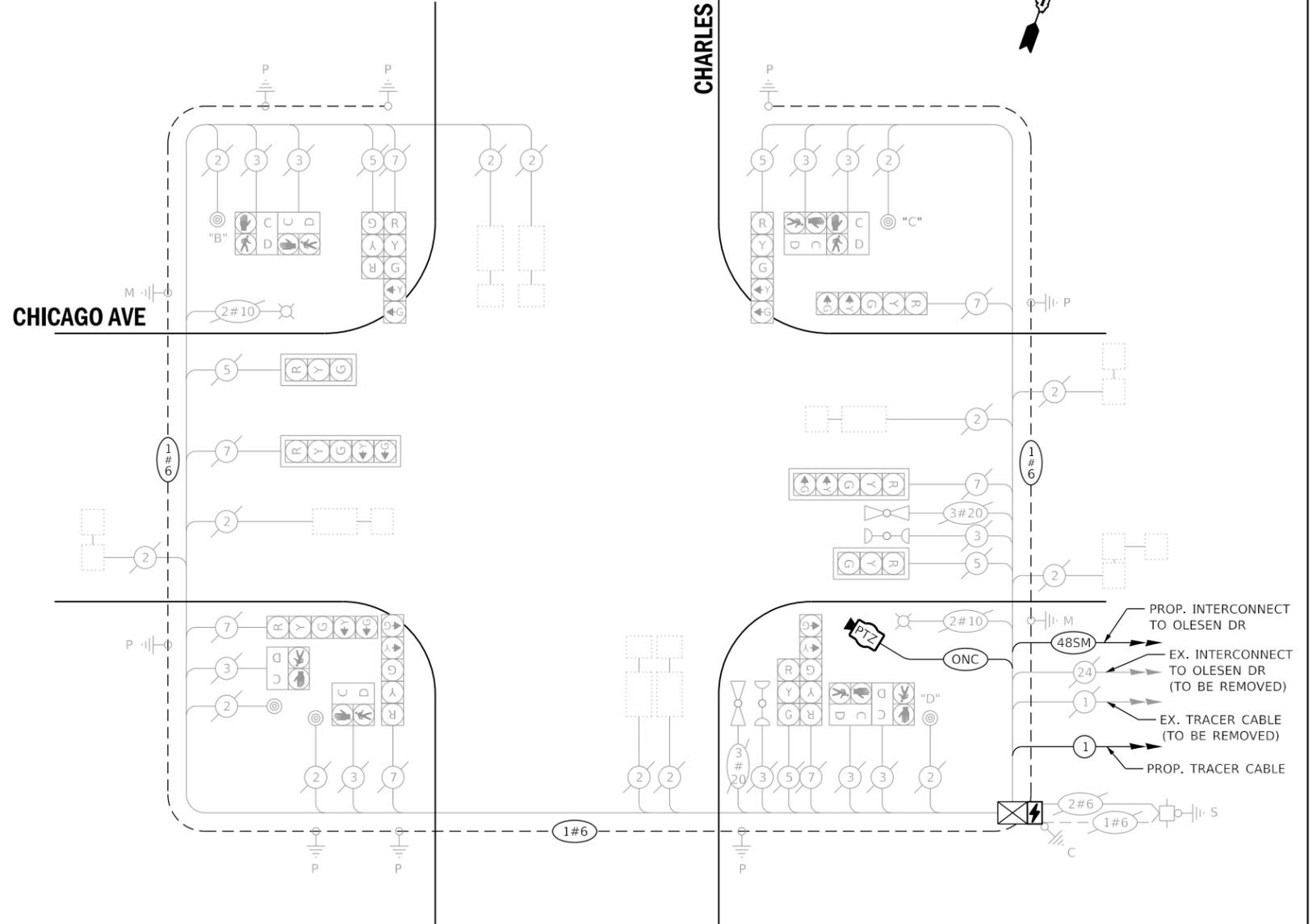
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
110	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	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
110	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
98	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

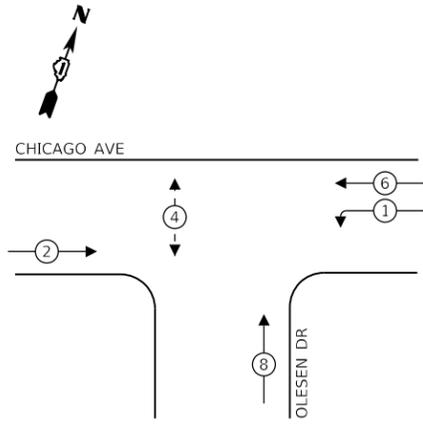
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
CHICAGO AVE AND CHARLES AVE**

SCALE: NTS SHEET 32 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	50
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



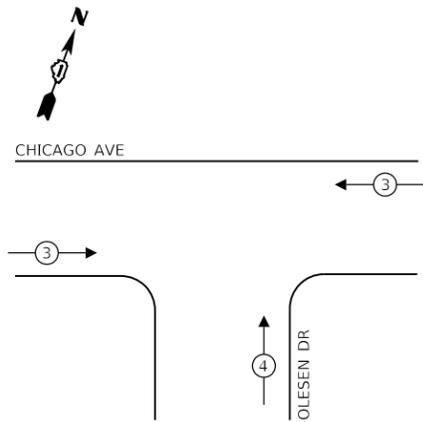
LEGEND:

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

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	50
(YELLOW)	9	20	5	9
(GREEN)	10	12	45	54
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	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				532

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

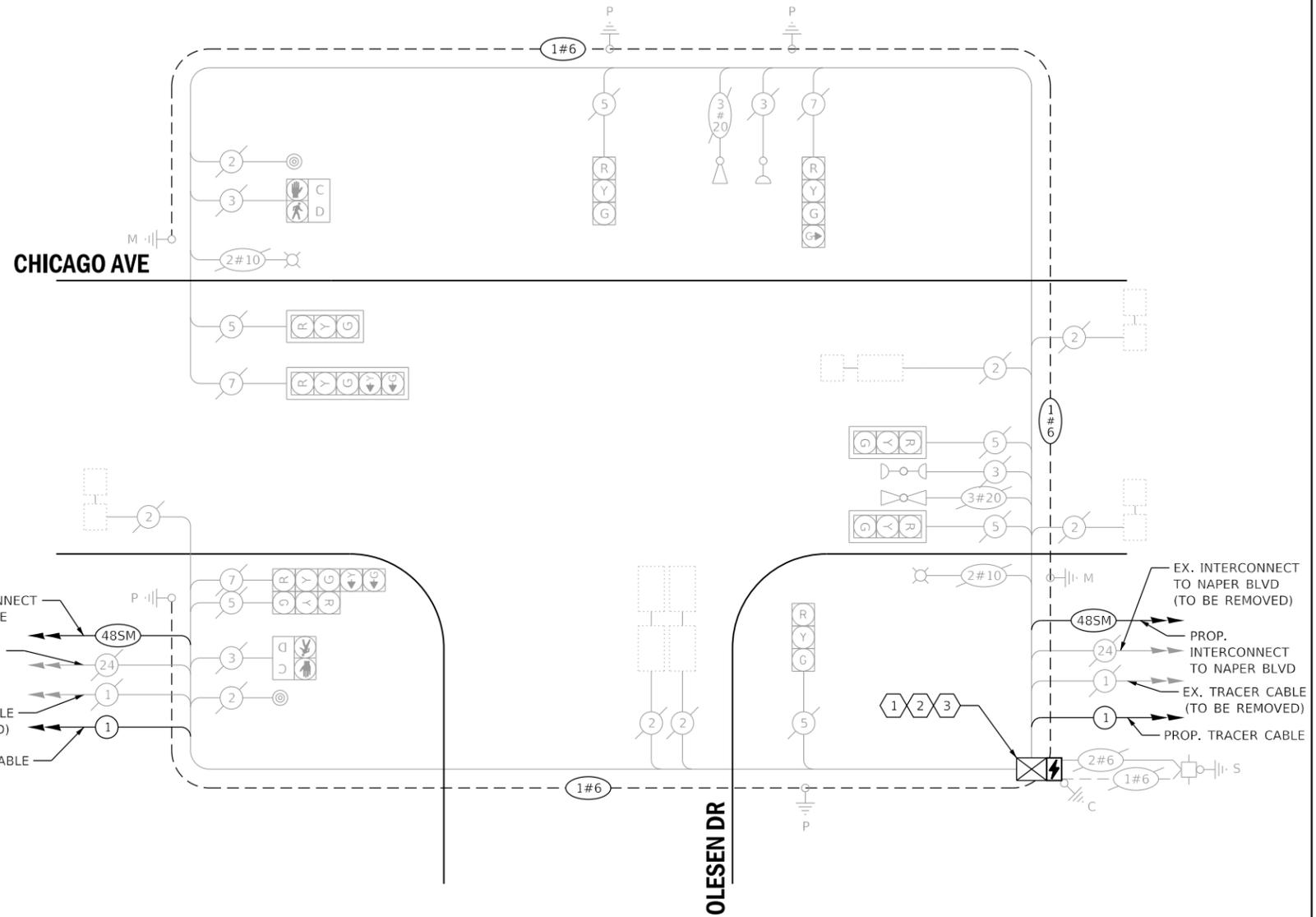
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	UNINTERRUPTIBLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

- PROP. INTERCONNECT TO CHARLES AVE
- EX. INTERCONNECT TO CHARLES AVE (TO BE REMOVED)
- EX. TRACER CABLE (TO BE REMOVED)
- PROP. TRACER CABLE



CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	99	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
CHICAGO AVE AND OLESEN DR

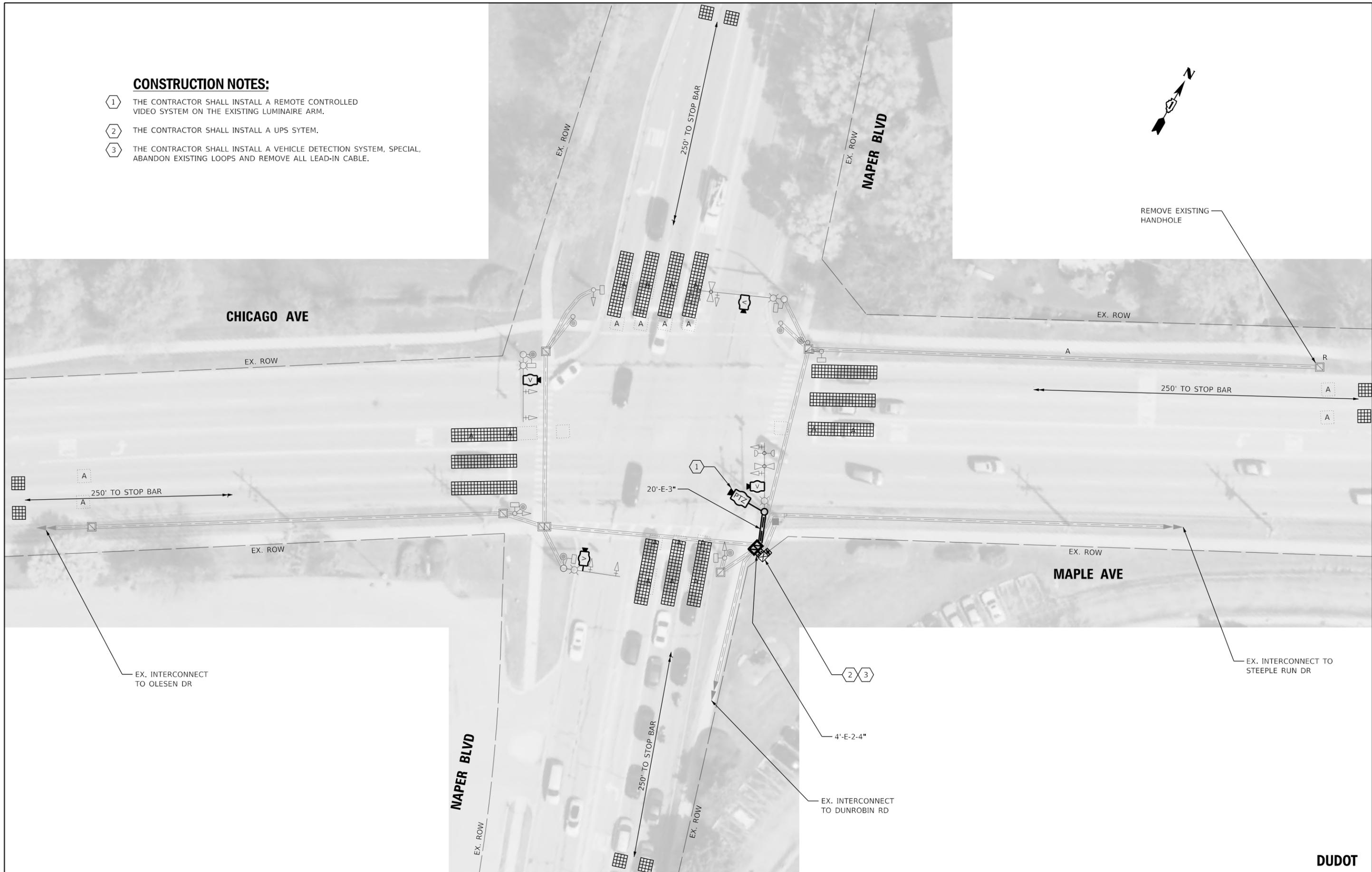
SCALE: NTS SHEET 33 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	51
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- ③ THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
105	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

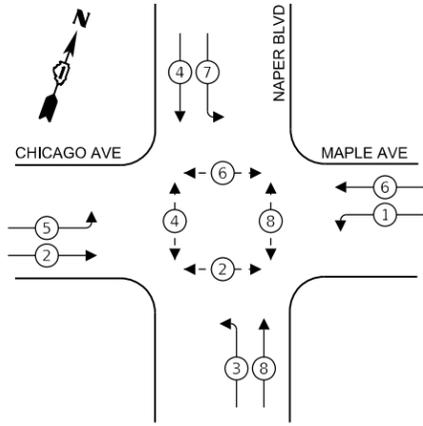
TRAFFIC SIGNAL MODERNIZATION PLAN
CHICAGO AVE/MAPLE AVE AND NAPER BLVD

SCALE: SHEET 34 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H22	

DUDOT

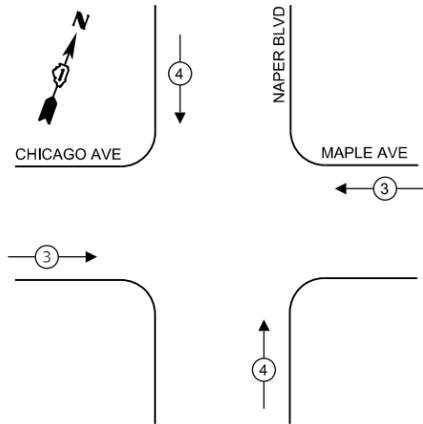
EXISTING CONTROLLER SEQUENCE



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)	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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1169

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

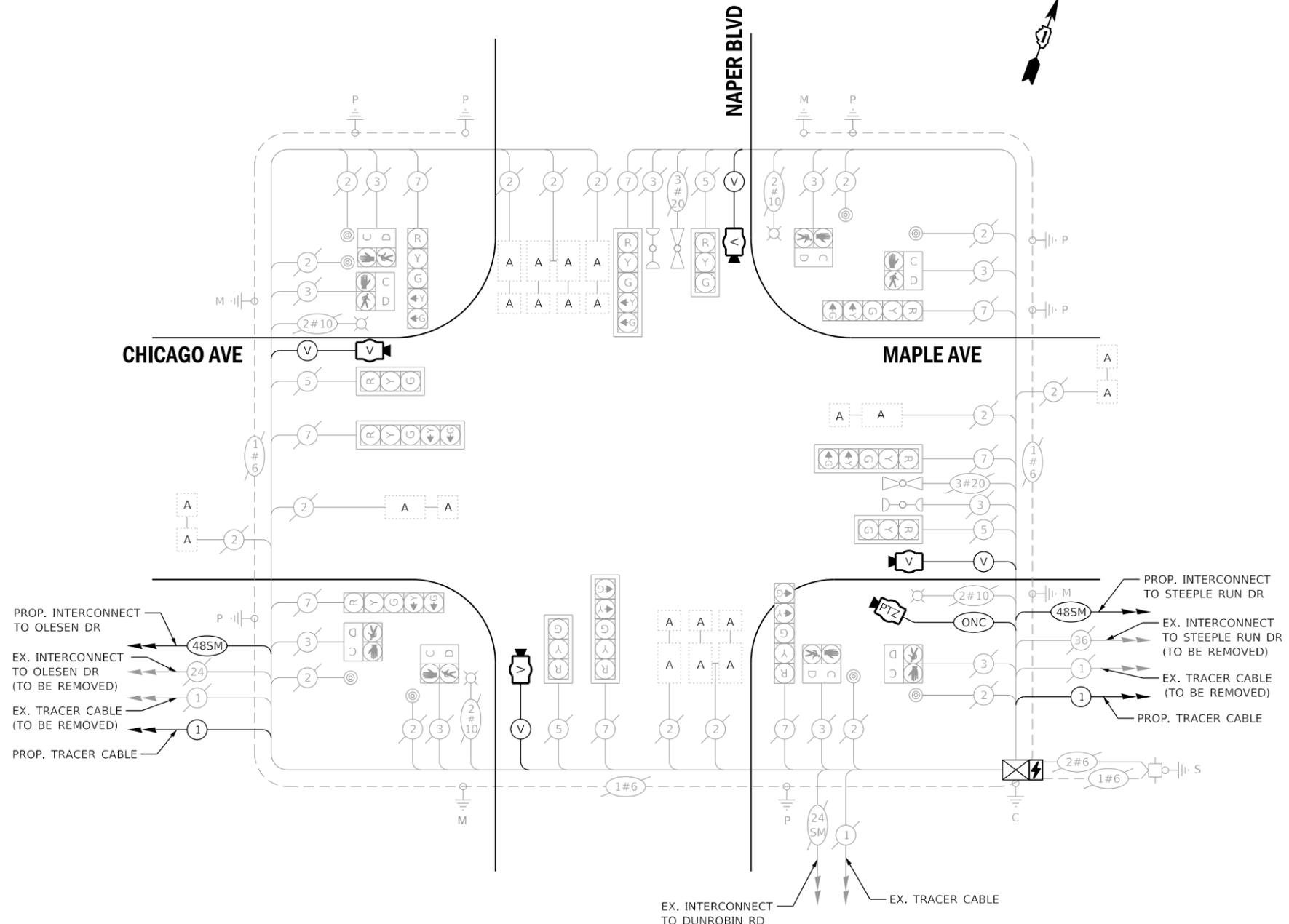
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1580	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING HANDHOLE
220	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

**CABLE PLAN
(NOT TO SCALE)**



DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	105	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

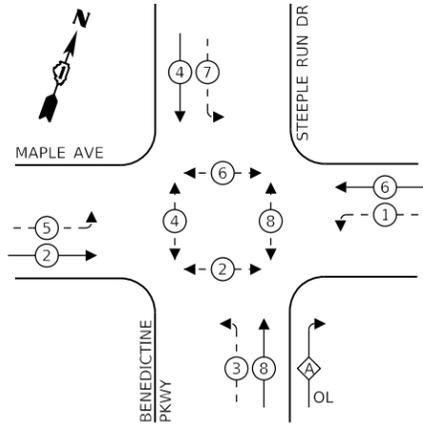
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
CHICAGO AVE/MAPLE AVE AND NAPER BLVD**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	53
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 35 OF 172 SHEETS STA. TO STA.

DUDOT

EXISTING CONTROLLER SEQUENCE



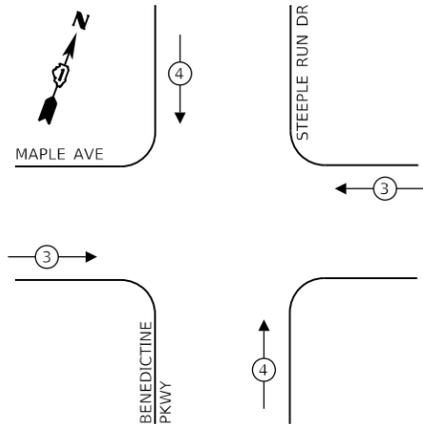
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3

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	20	10	10	20
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	-
TOTAL =				746

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

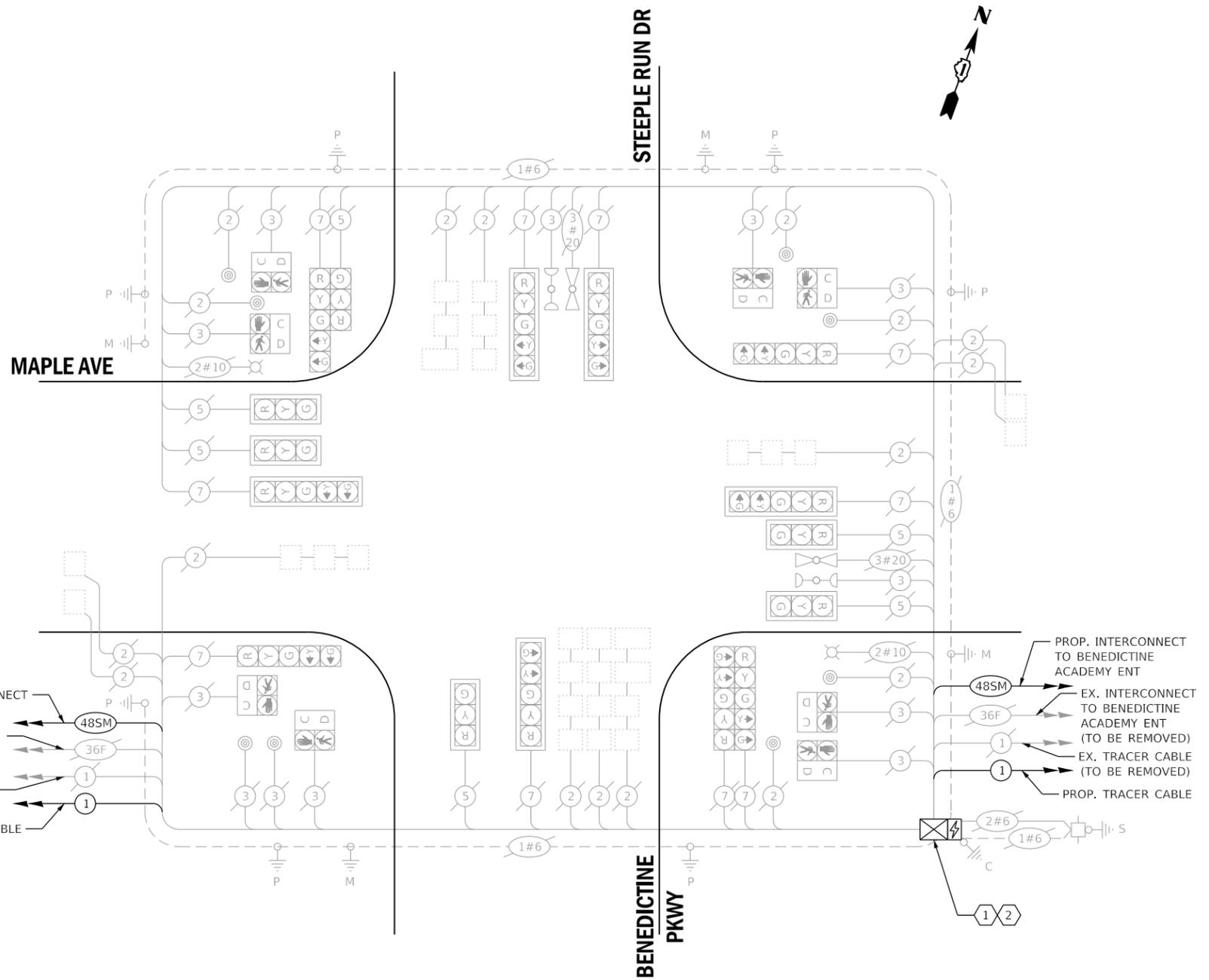
ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER: _____

CONSTRUCTION NOTES:

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

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN (NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
108	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

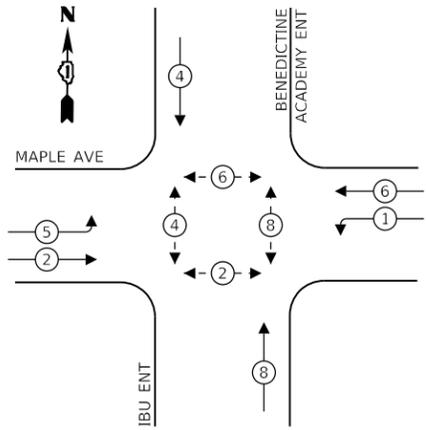
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND STEEPLE RUN DR/BENEDICTINE PKWY**

SCALE: NTS SHEET 36 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	54
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



LEGEND:

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

CONSTRUCTION NOTES:

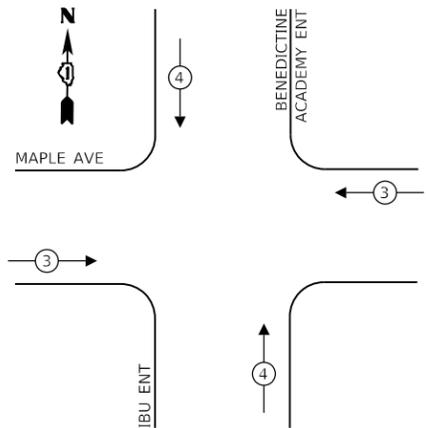
- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER IN THE EXISTING CABINET.
- 3 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

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/25-1000)

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	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				686

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:

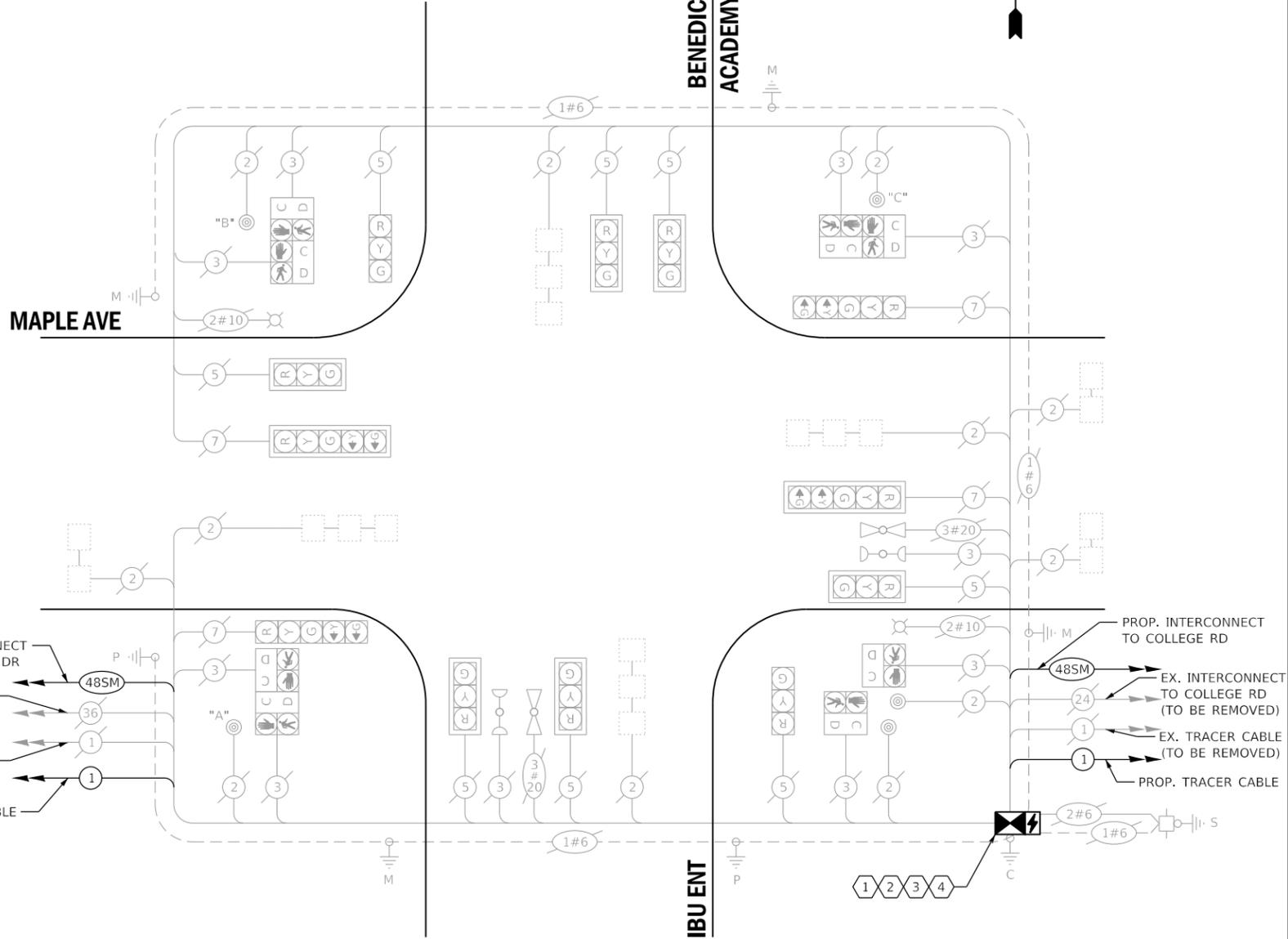
TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

MAPLE AVE

PROP. INTERCONNECT TO STEEPLE RUN DR
EX. INTERCONNECT TO STEEPLE RUN DR (TO BE REMOVED)
EX. TRACER CABLE (TO BE REMOVED)
PROP. TRACER CABLE



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

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

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
104	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

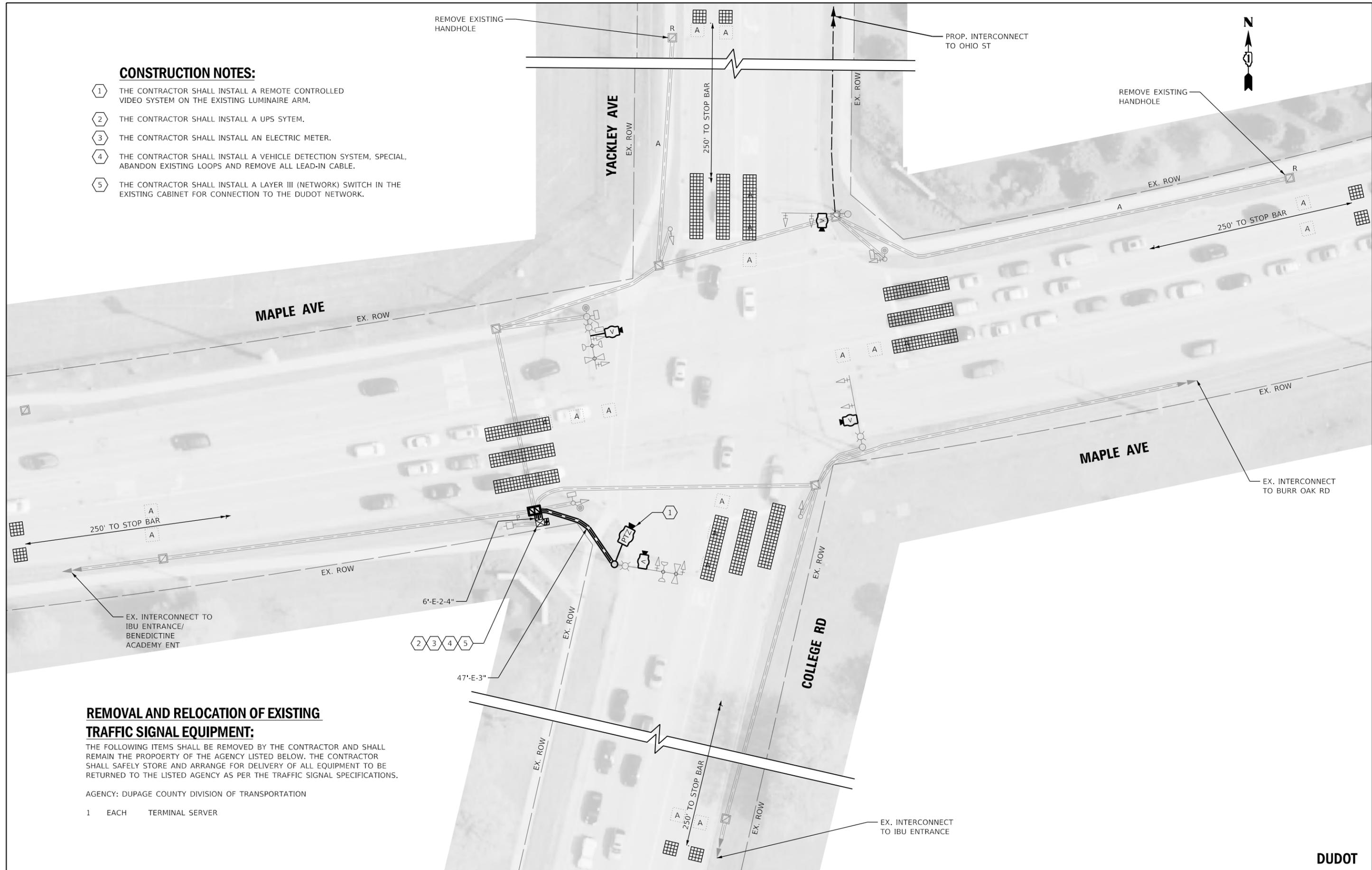
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND IBU ENT/BENEDICTINE ACADEMY ENT**

SCALE: NTS SHEET 37 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	55
CONTRACT NO.			61H22	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 2 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 3 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 4 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.
- 5 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.



REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPOERTY 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 TERMINAL SERVER



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
110	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
MAPLE AVE AND YACKLEY AVE/COLLEGE RD

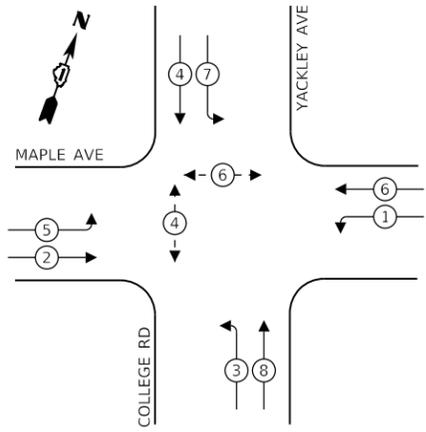
SCALE: 1"=20'

SHEET 38 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	56
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

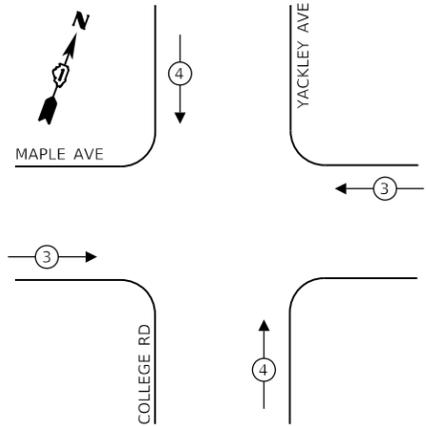
EXISTING CONTROLLER SEQUENCE



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)	12	11	50	66
(YELLOW)	12	20	5	12
(GREEN)	12	12	45	65
PERMISSIVE ARROW	16	10	10	16
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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1089

ENERGY COSTS TO:

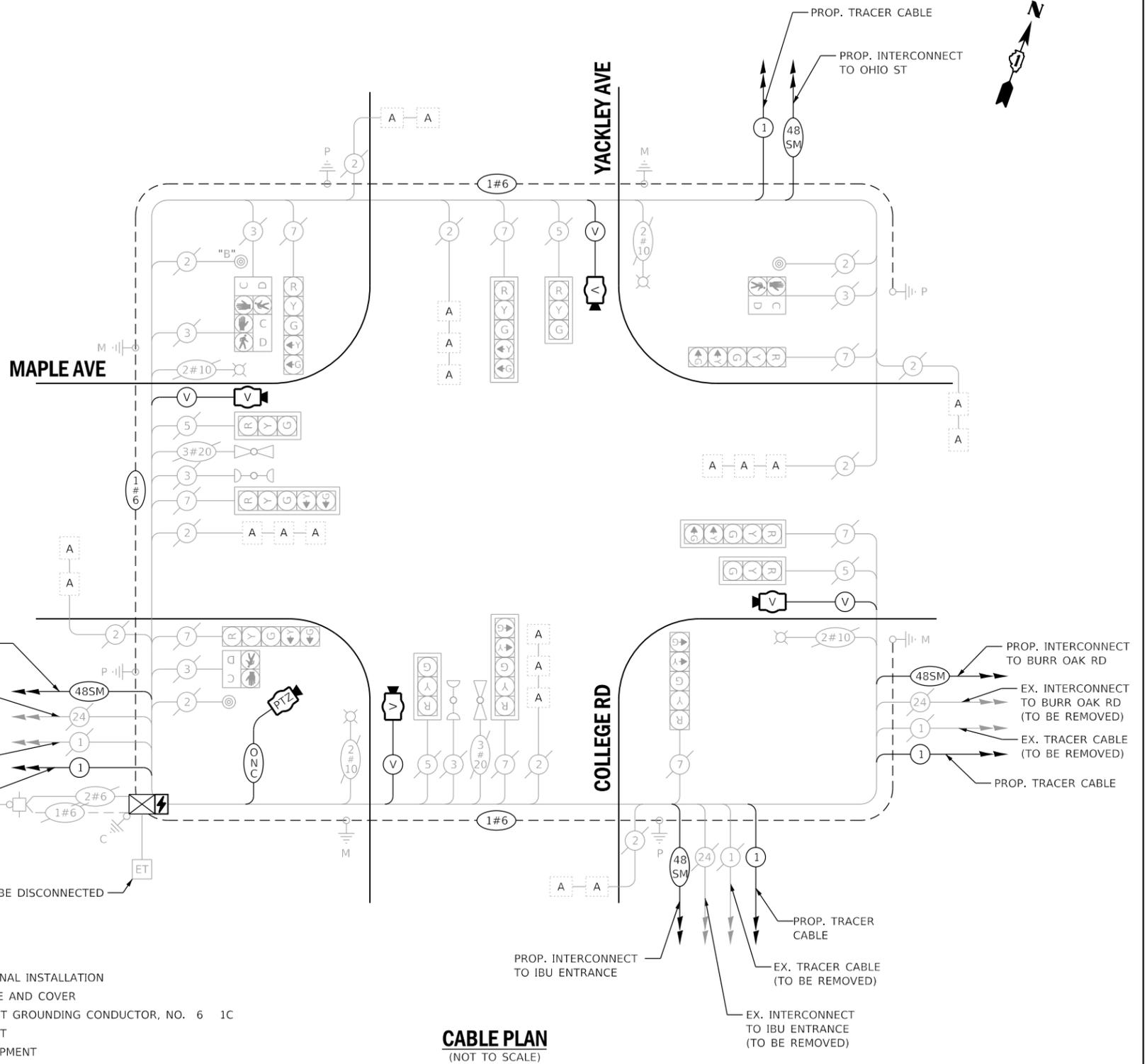
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1750	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE EXISTING HANDHOLE
140	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES



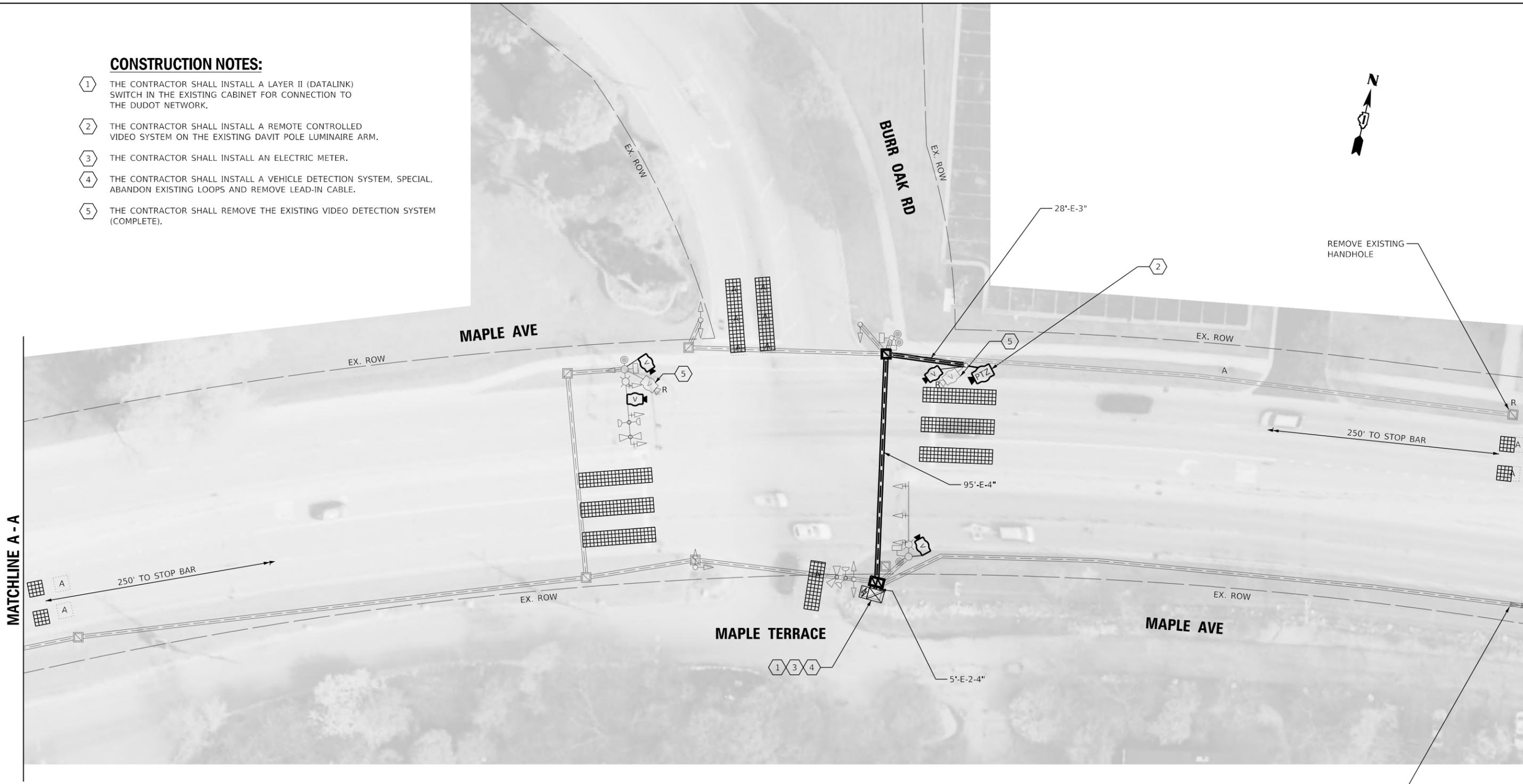
CABLE PLAN
(NOT TO SCALE)

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

	USER NAME = zhoerbert 110 PLOT SCALE = 40.0000 ' / in. PLOT DATE = 8/2/2021	DESIGNED - ZH DRAWN - RG CHECKED - DW DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES MAPLE AVE AND YACKLEY AVE/COLLEGE RD	F.A. RTE. VAR.	SECTION 19-DCCSS-03-TL	COUNTY DUPAGE	TOTAL SHEETS 307	SHEET NO. 57
	SCALE: NTS SHEET 39 OF 172 SHEETS STA. TO STA.						ILLINOIS FED. AID PROJECT		CONTRACT NO. 61H22	

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING DAVIT POLE LUMINAIRE ARM.
- 3 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 4 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE LEAD-IN CABLE.
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING VIDEO DETECTION SYSTEM (COMPLETE).



REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPOERTY 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 VIDEO DETECTION SYSTEM (COMPLETE)

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>TRAFFIC SIGNAL MODERNIZATION PLAN MAPLE AVE AND BURR OAK RD - (SHEET 1 OF 2)</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	101	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 40	OF 172 SHEETS	STA.	TO STA.	VAR.	19-DCCSS-03-TL	DUPAGE	307
	PLOT SCALE = 40.0000 "/in.	CHECKED - ZH	REVISED -										
	PLOT DATE = 8/2/2021	DATE -	REVISED -										
<p align="right">CONTRACT NO. 61H22</p>													
<p align="right">ILLINOIS FED. AID PROJECT</p>													



MAPLE AVE

EX. ROW

EX. ROW

EX. ROW

EX. ROW

MATCHLINE A - A

EX. INTERCONNECT
TO YACKLEY AVE/
COLLEGE RD



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
101	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

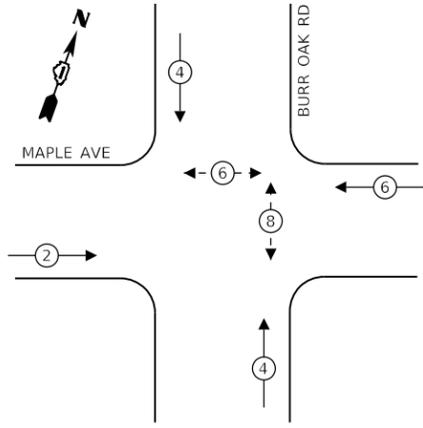
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
MAPLE AVE AND BURR OAK RD - (SHEET 2 OF 2)

SCALE: 1"=20' SHEET 41 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	59
ILLINOIS			CONTRACT NO. 61H22	
FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



LEGEND:

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

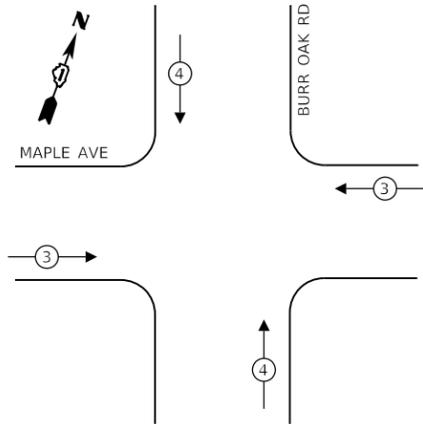
ADVANCE WARNING WIG-WAG FLASHING BEACON

OPERATION NOTE:

THE ADVANCE ALTERNATE WIG-WAG WARNING FLASHING BEACON OPERATION SHALL COMMENCE AT THE START OF THE PHASE 2 YELLOW AND SHALL CONTINUE TO FLASH DURING THE PHASE 2 YELLOW AND RED INTERVALS.

THE ADVANCE WARNING FLASHER SHALL TURN OFF AT THE START OF THE PHASE 2 GREEN.

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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	-	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	2	25	50	25
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				884

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: _____

TOTAL QUANTITY

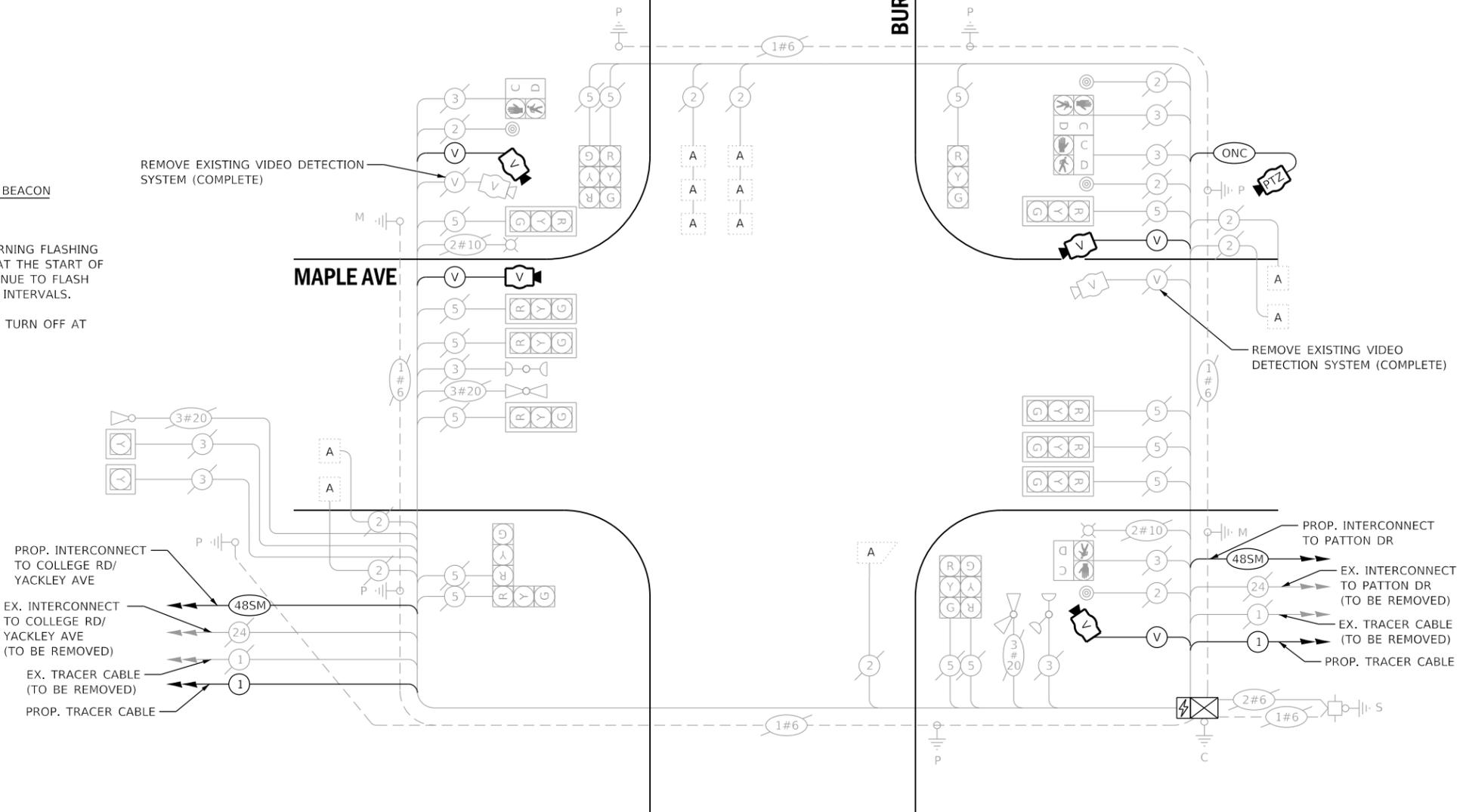
TOTAL QUANTITY	UNITS
1	EACH
2550	FOOT
1	EACH
1	EACH
220	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
REMOVE EXISTING HANDHOLE
OUTDOOR RATED NETWORK CABLE
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
ELECTRIC METER
VEHICLE DETECTION SYSTEM, SPECIAL

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN
(NOT TO SCALE)**



USER NAME	DESIGNED	REVISION
= zhoerbert	- ZH	-
101	- RG	-
PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISION -
PLOT DATE = 8/2/2021	DATE -	REVISION -

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND BURR OAK RD**

SCALE: NTS SHEET 42 OF 172 SHEETS STA. TO STA.

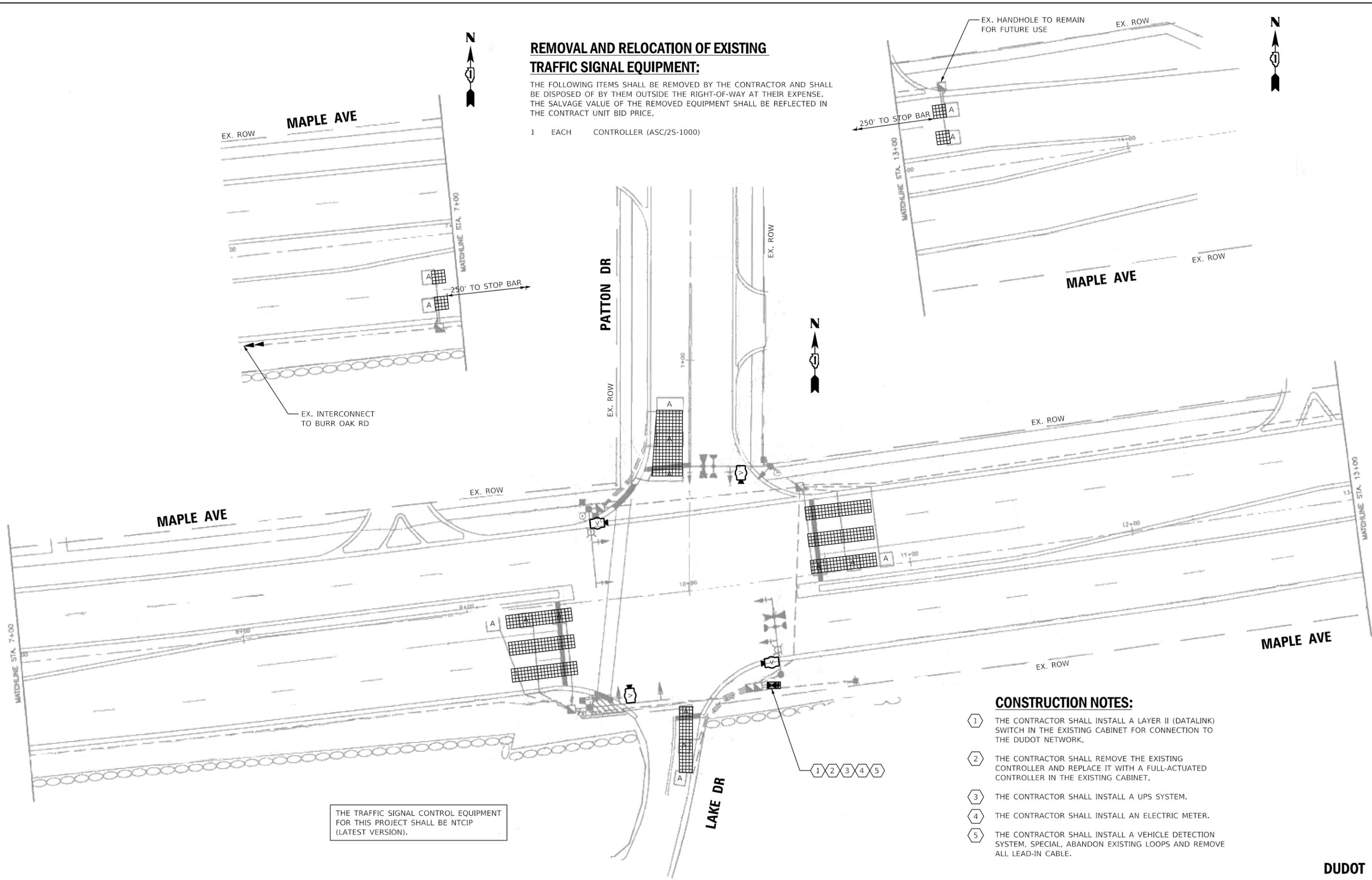
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCC55-03-TL	DUPAGE	307	60
				CONTRACT NO. 61H22
		ILLINOIS	FED. AID PROJECT	

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/2S-1000)



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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 5 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
106	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

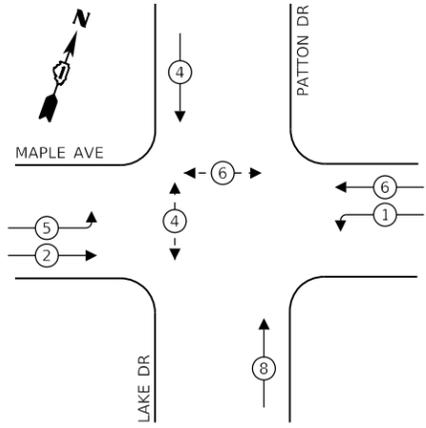
TRAFFIC SIGNAL MODERNIZATION PLAN
MAPLE AVE AND PATTON DR/LAKE DR

SCALE: 1"=20' SHEET 43 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	61
			CONTRACT NO. 61H22	

DUDOT

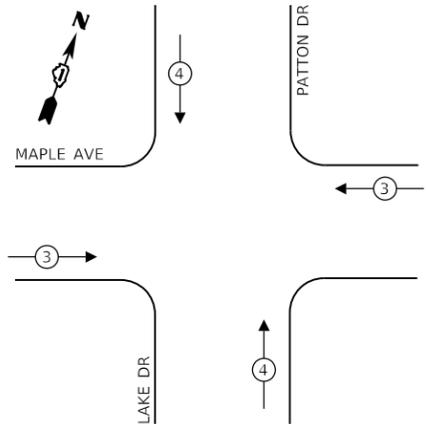
EXISTING CONTROLLER SEQUENCE



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	8	10	10	8
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 =				732

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

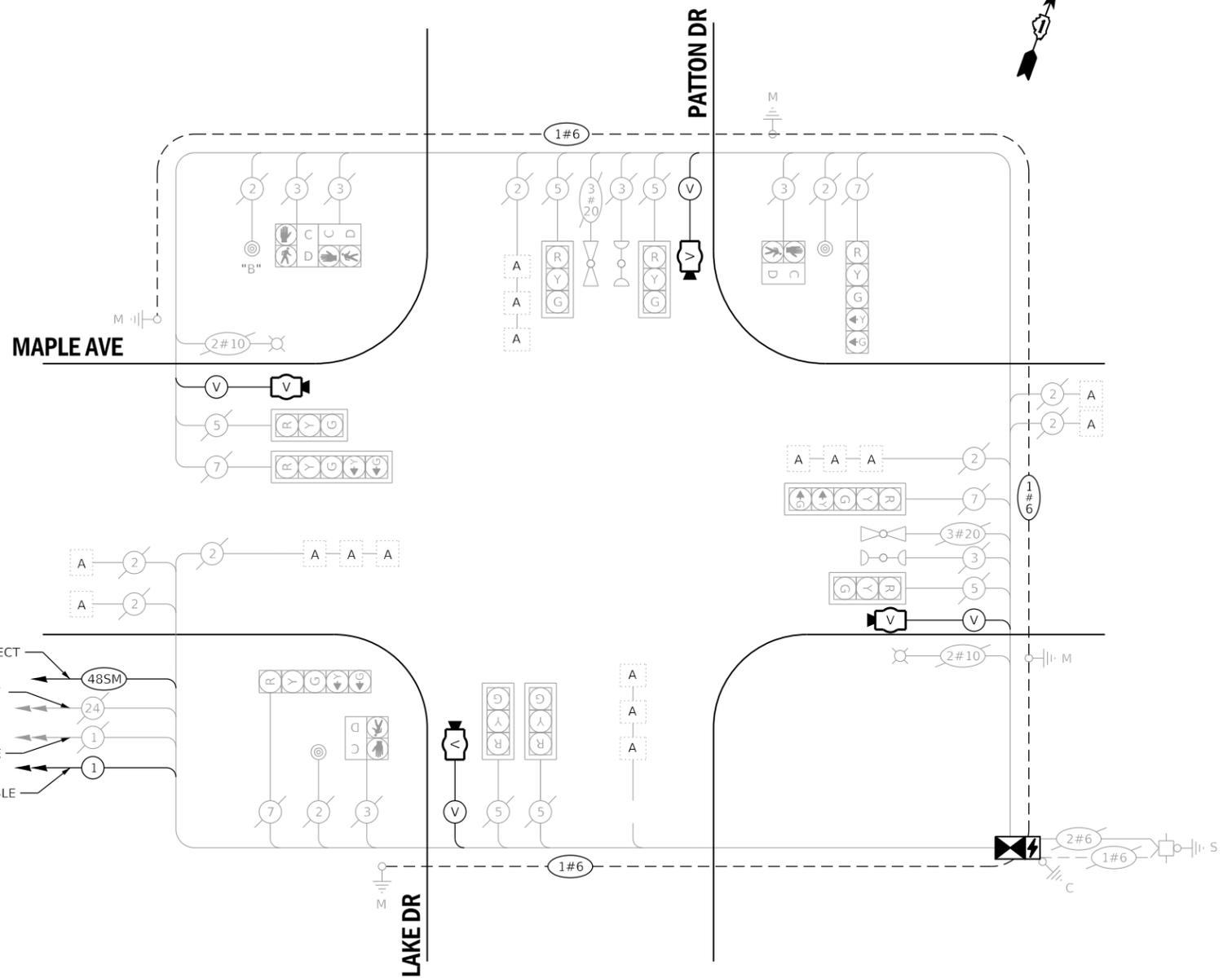
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	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
2337	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

- PROP. INTERCONNECT TO BURR OAK RD → 48SM
- EX. INTERCONNECT TO BURR OAK RD (TO BE REMOVED) → 24
- EX. TRACER CABLE (TO BE REMOVED) → 1
- PROP. TRACER CABLE → 1



CABLE PLAN
(NOT TO SCALE)

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

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	106	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

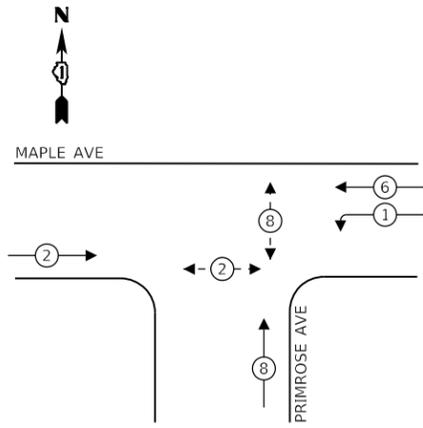
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND PATTON DR/LAKE DR

SCALE: NTS SHEET 44 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	62
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

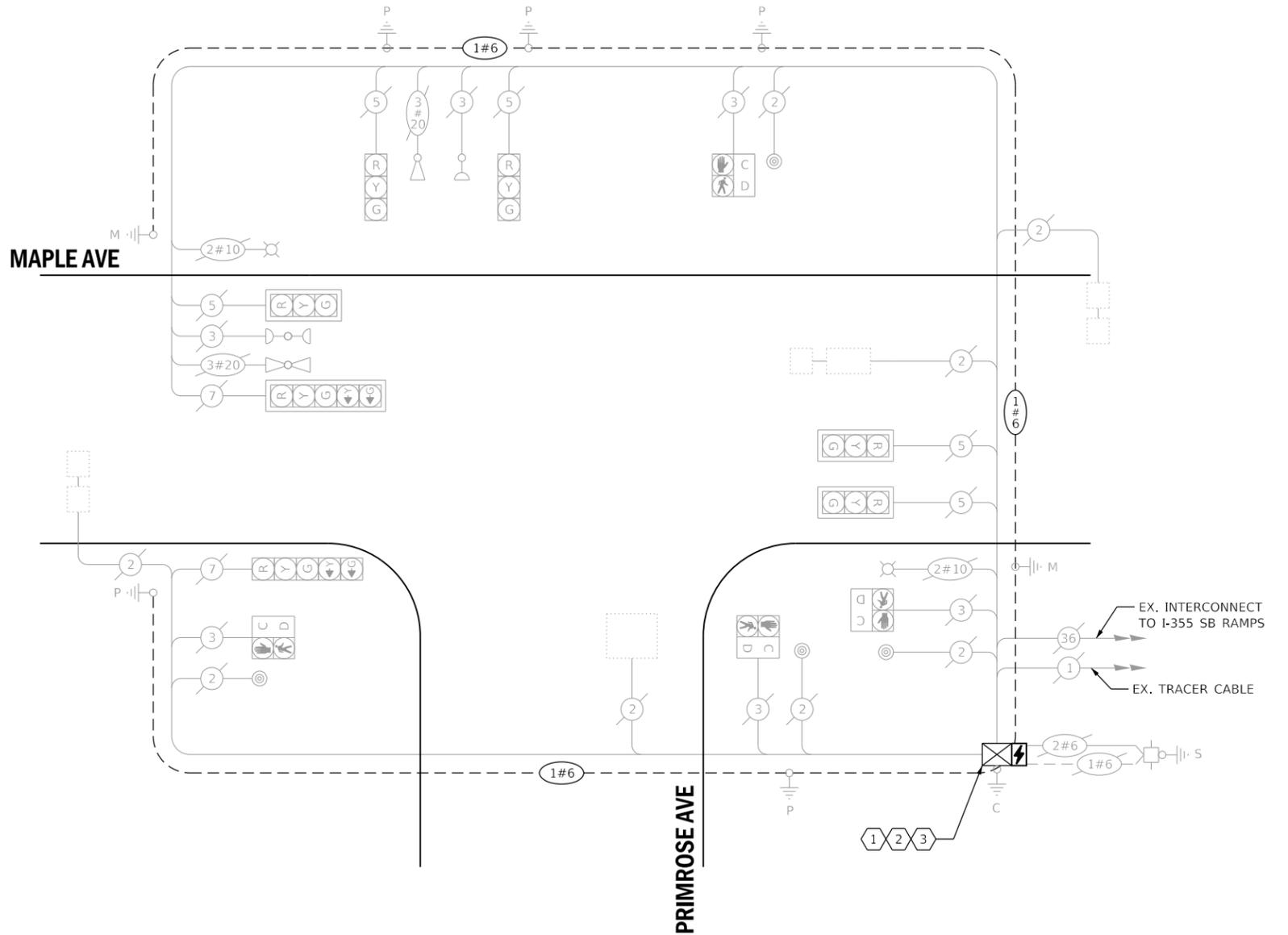
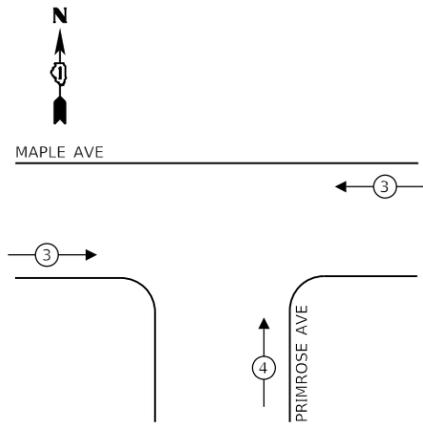
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

CONSTRUCTION NOTES:

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

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	7	11	50	39
(YELLOW)	7	20	5	7
(GREEN)	7	12	45	38
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	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				543

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:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
107	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

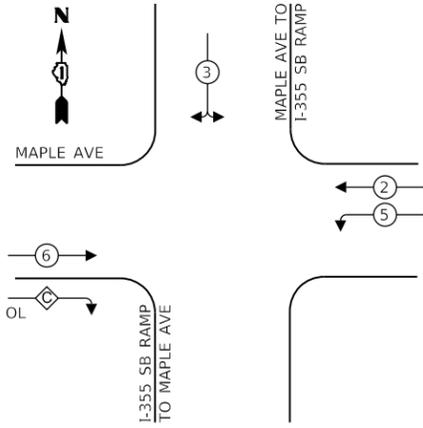
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND PRIMROSE AVE**

SCALE: NTS SHEET 45 OF 172 SHEETS STA. TO STA.

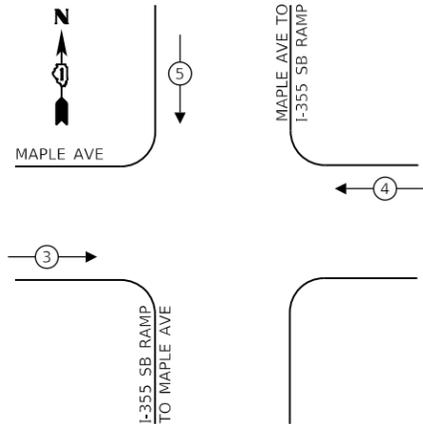
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	63
			CONTRACT NO.	61H22
		ILLINOIS	FED. AID PROJECT	

DUDOT

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 3

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 UPS SYSTEM.
- 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 (100'-E-1 1/2").

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 CABINETE (COMPLETE)
- 1 EACH SERVICE INSTALLATION

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 EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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)	17	12	45	92
PERMISSIVE ARROW	2	10	10	2
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 =				323

ENERGY COSTS TO:

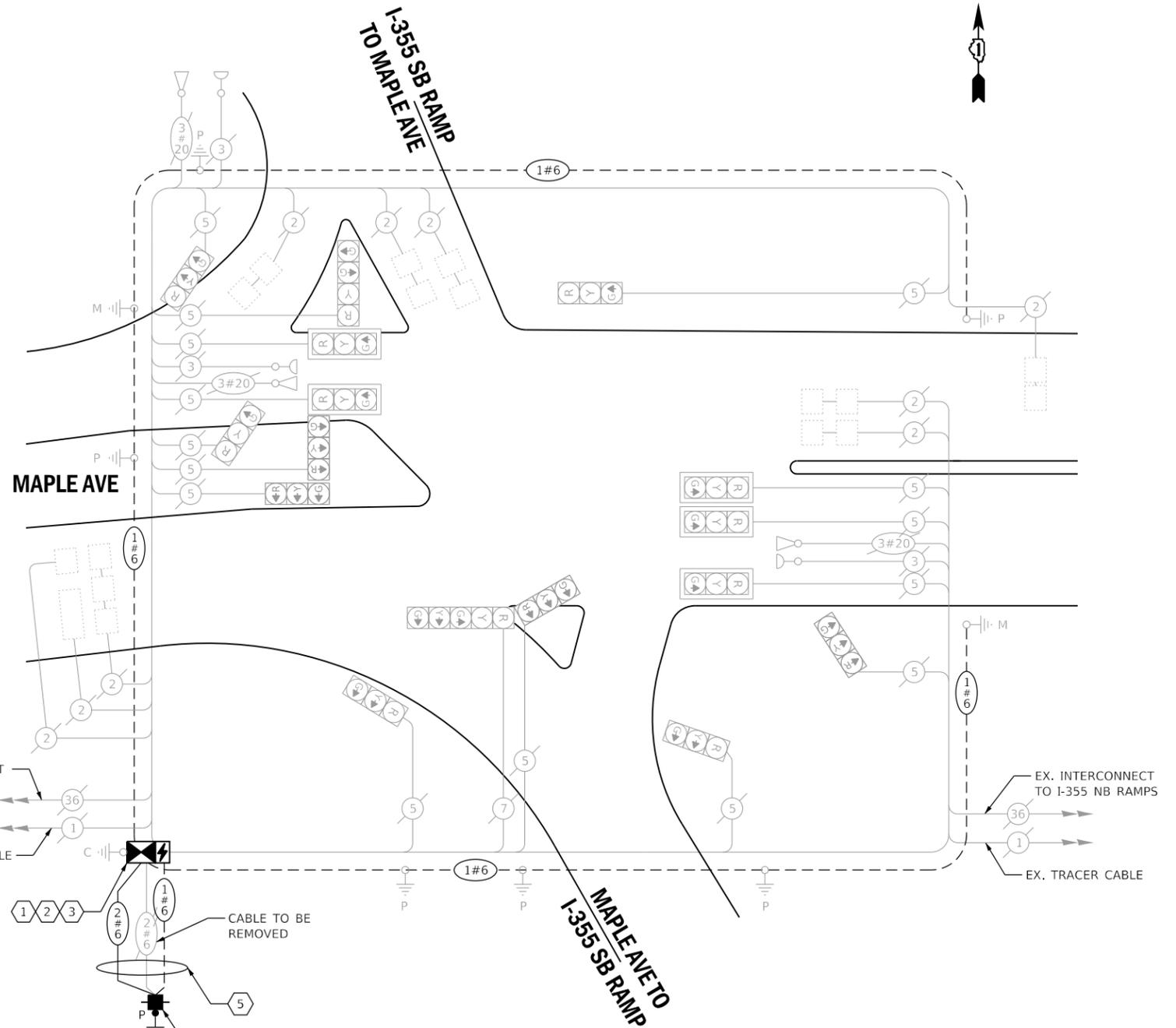
DUPAGE COUNTY D.O.T.

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
120	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
9	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
100	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
100	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

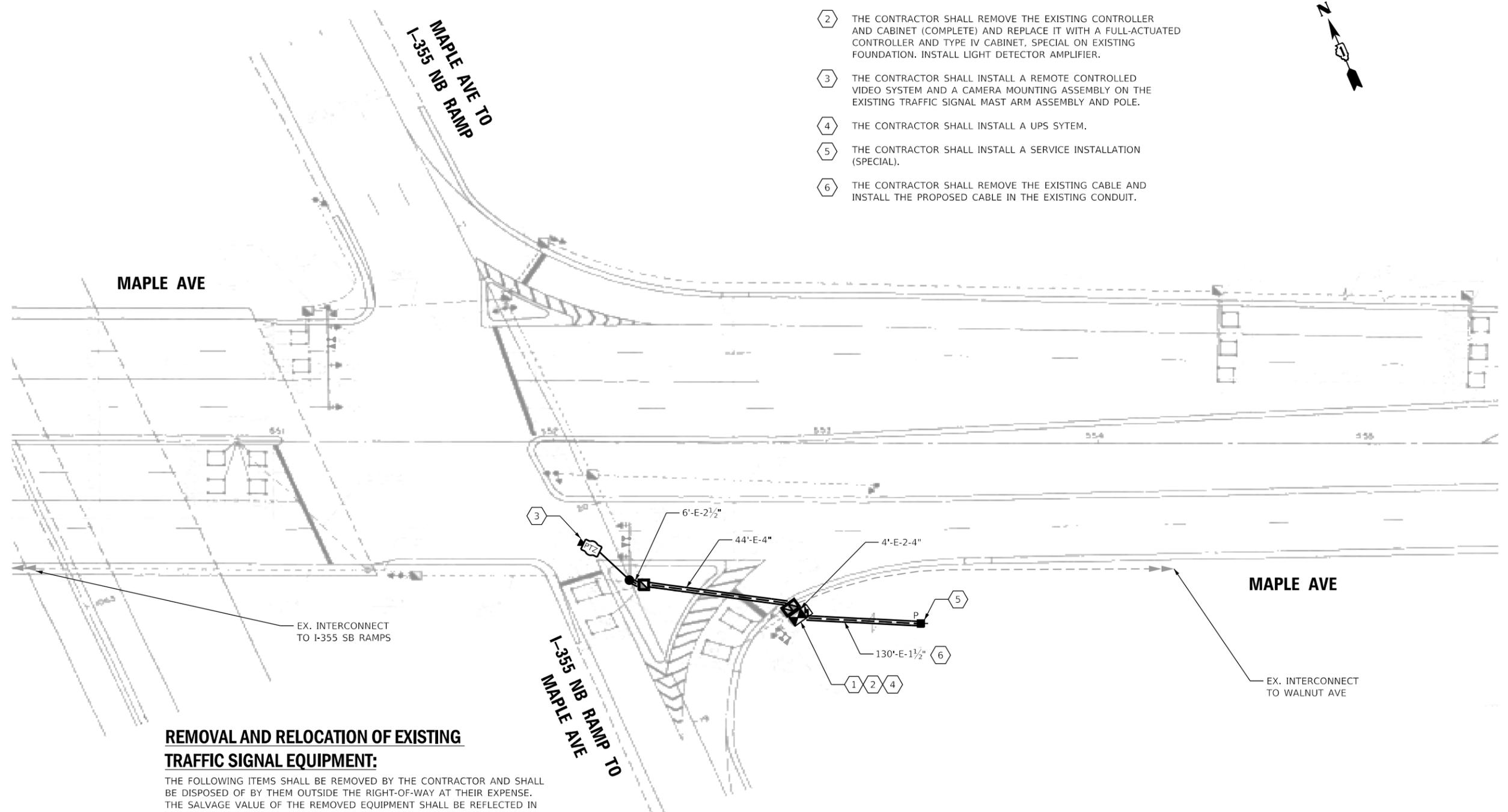


CABLE PLAN
(NOT TO SCALE)

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 REMOTE CONTROLLED VIDEO SYSTEM AND A CAMERA MOUNTING ASSEMBLY ON THE EXISTING TRAFFIC SIGNAL MAST ARM ASSEMBLY AND POLE.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYTEM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.



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)
- 1 EACH SERVICE INSTALLATION

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

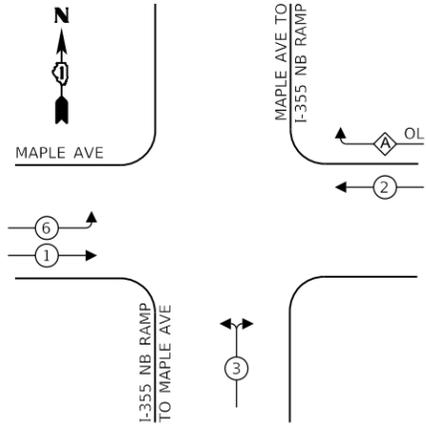
- 1 EACH MASTER CONTROLLER (ASC/2M-1000)
- 1 EACH MODEM
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN MAPLE AVE AND I-355 NB RAMPS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	102	DRAWN - RG	REVISED -						VAR.	19-DCCSS-03-TL	DUPAGE	307	65
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 47	OF 172 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 61H22			
	PLOT DATE = 8/2/2021	DATE -	REVISED -										

EXISTING CONTROLLER SEQUENCE



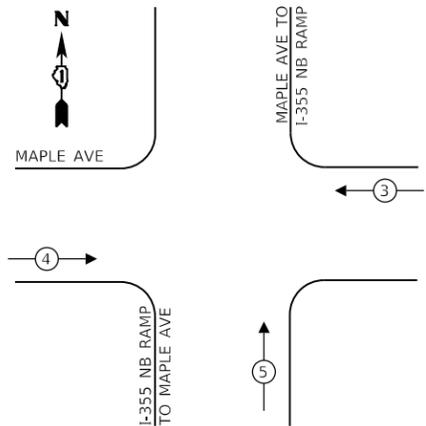
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3

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)	17	12	45	92
PERMISSIVE ARROW	2	10	10	2
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	1	75	100	75
TOTAL =				398

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

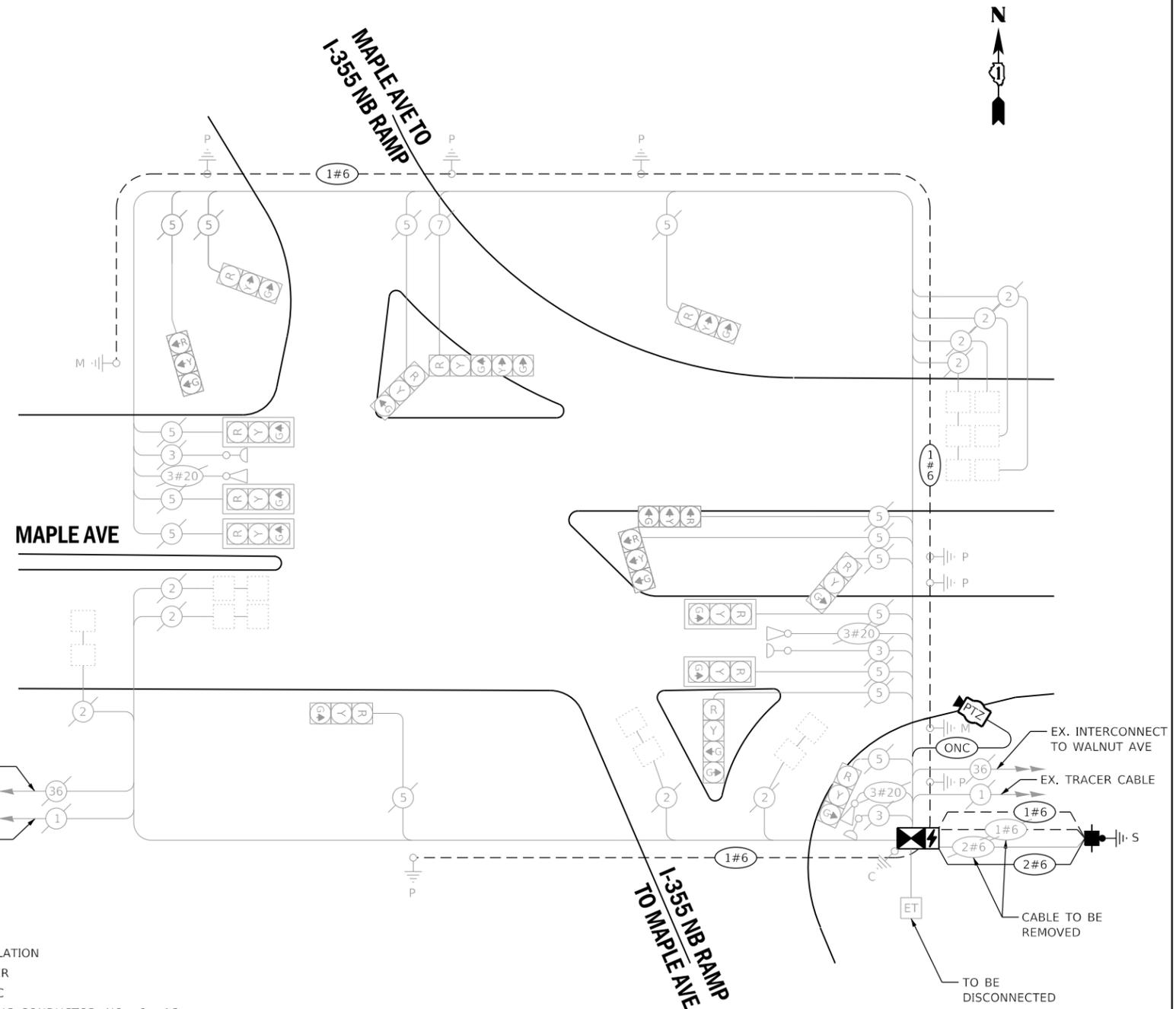
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS
1	EACH
7	EACH
150	FOOT
750	FOOT
9	EACH
1	EACH
260	FOOT
1	EACH
130	FOOT
130	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
GROUNDING EXISTING HANDHOLE FRAME AND COVER
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
INDUCTIVE LOOP DETECTOR
LIGHT DETECTOR AMPLIFIER
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ROD AND CLEAN EXISTING CONDUIT
OUTDOOR RATED NETWORK CABLE
SERVICE INSTALLATION (SPECIAL)
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
CAMERA MOUNTING ASSEMBLY



CABLE PLAN
(NOT TO SCALE)

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

USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
102	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000" / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

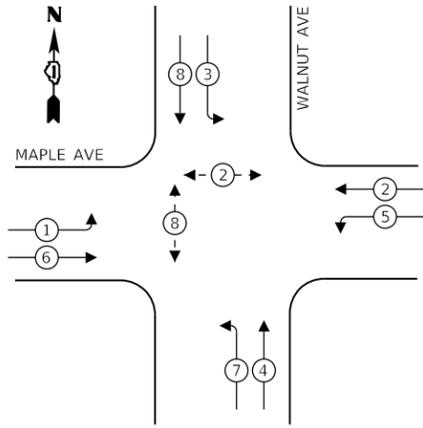
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND I-355 NB RAMPS**

SCALE: NTS SHEET 48 OF 172 SHEETS STA. TO STA.

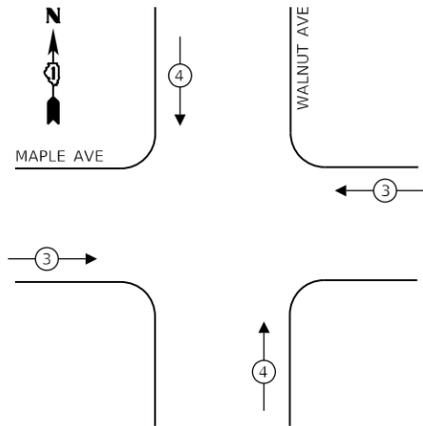
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	66
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

DUDOT

EXISTING CONTROLLER SEQUENCE



**EXISTING EMERGENCY VEHICLE
PREEMPTION 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 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 UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

**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)

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

**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	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	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				614

ENERGY COSTS TO:

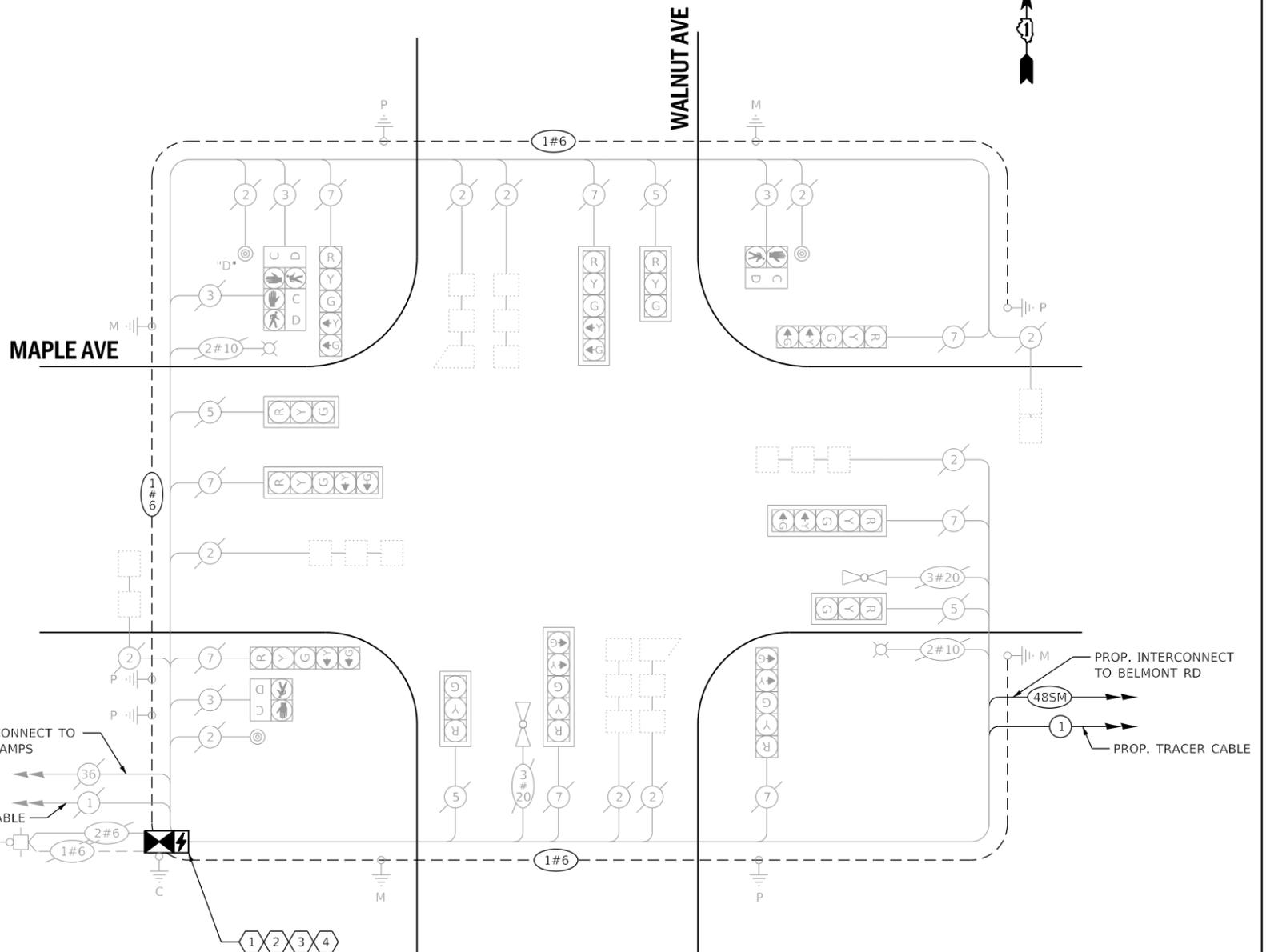
DUPAGE COUNTY D.O.T.

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

TOTAL QUANTITY	UNITS	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	LIGHT DETECTOR AMPLIFIER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



**CABLE PLAN
(NOT TO SCALE)**

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

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



USER NAME = zhoerbert
DESIGNED - ZH
DRAWN - RG
CHECKED - DW
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND WALNUT AVE

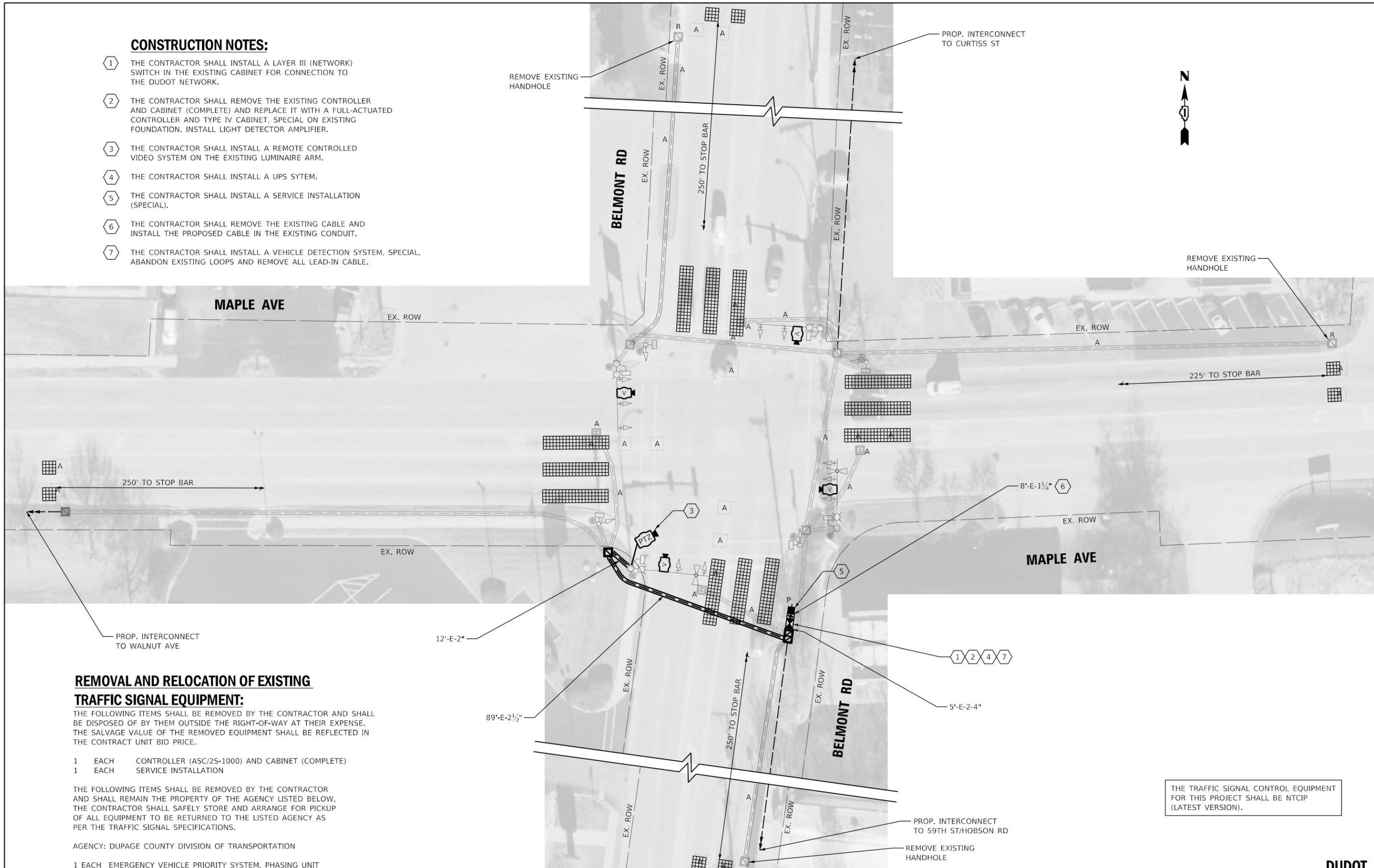
SCALE: NTS SHEET 49 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	67
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING 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 REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 7 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.



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) AND CABINET (COMPLETE)
- 1 EACH SERVICE INSTALLATION

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
100	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

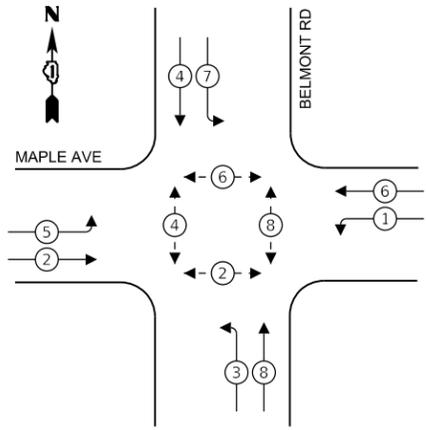
TRAFFIC SIGNAL MODERNIZATION PLAN
MAPLE AVE AND BELMONT RD

SCALE: SHEET 50 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	68
			CONTRACT NO.	61H22
ILLINOIS FED. AID PROJECT				

DUDOT

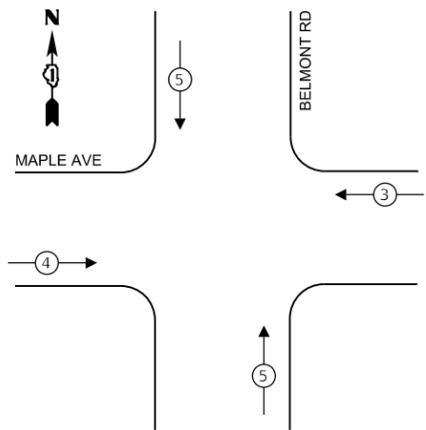
EXISTING CONTROLLER SEQUENCE



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)	14	11	50	77
(YELLOW)	14	20	5	14
(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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1185

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

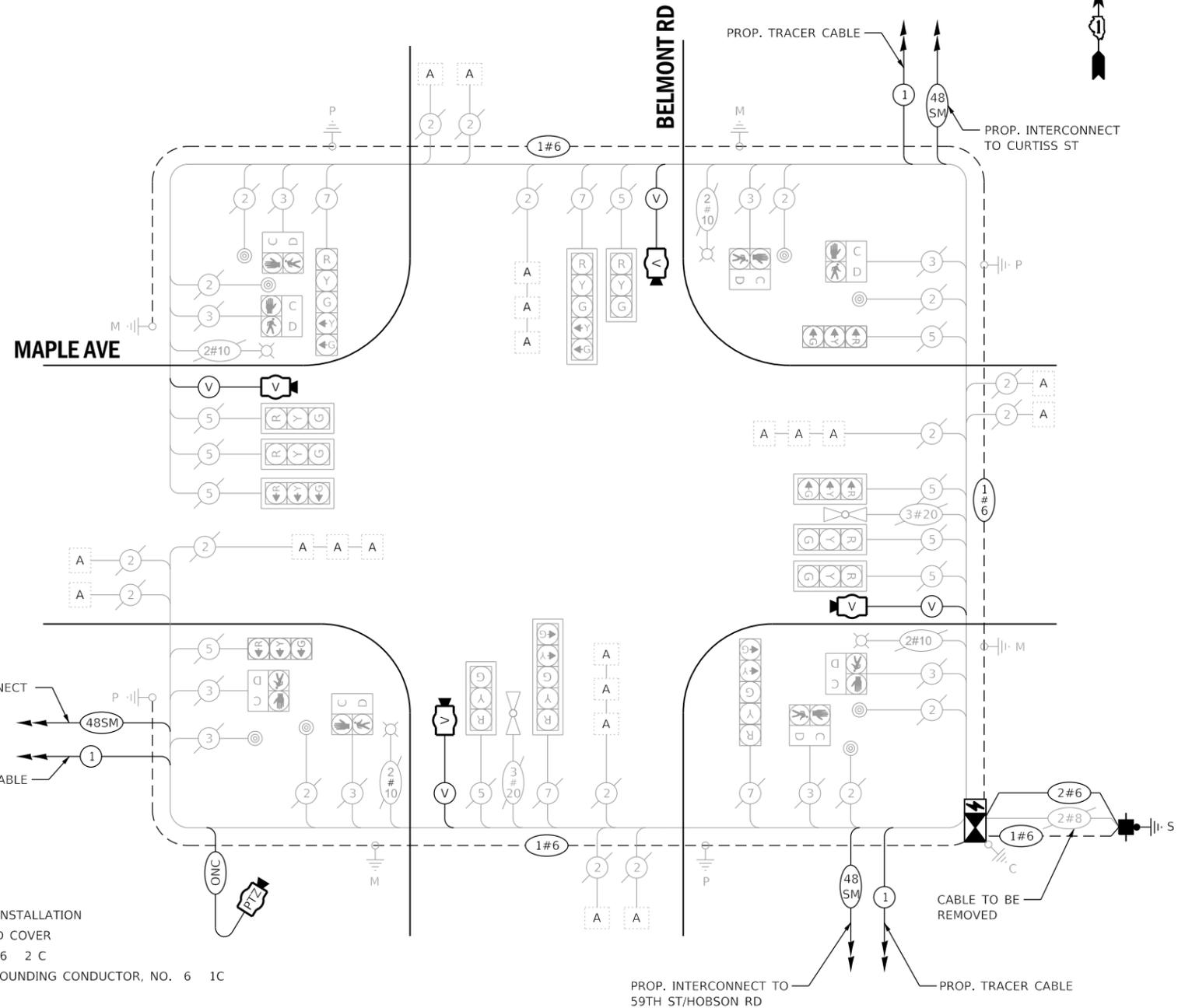
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
30	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	LIGHT DETECTOR AMPLIFIER
3233	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
8	FOOT	ROD AND CLEAN EXISTING CONDUIT
200	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
30	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	LIGHT DETECTOR AMPLIFIER
3233	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
8	FOOT	ROD AND CLEAN EXISTING CONDUIT
200	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



CABLE PLAN
(NOT TO SCALE)

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	100	DRAWN - RG	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

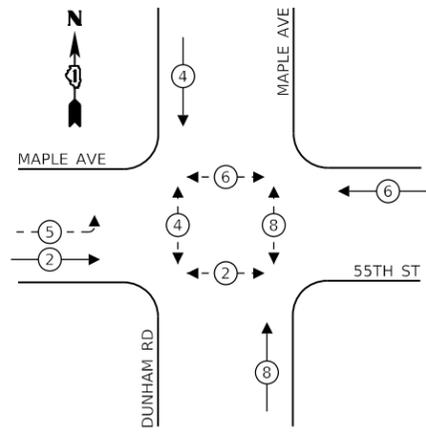
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE AND BELMONT RD**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	69
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

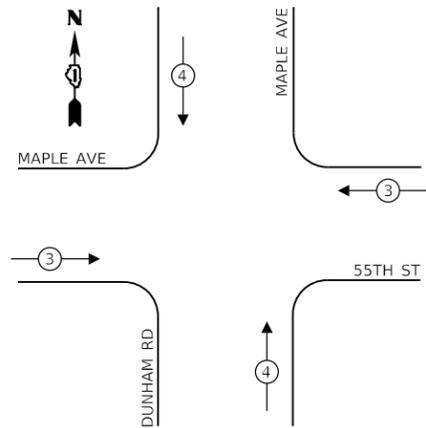
SCALE: NTS SHEET 51 OF 172 SHEETS STA. TO STA.

DUDOT

EXISTING CONTROLLER SEQUENCE



**EXISTING EMERGENCY VEHICLE
PREEMPTION 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 EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

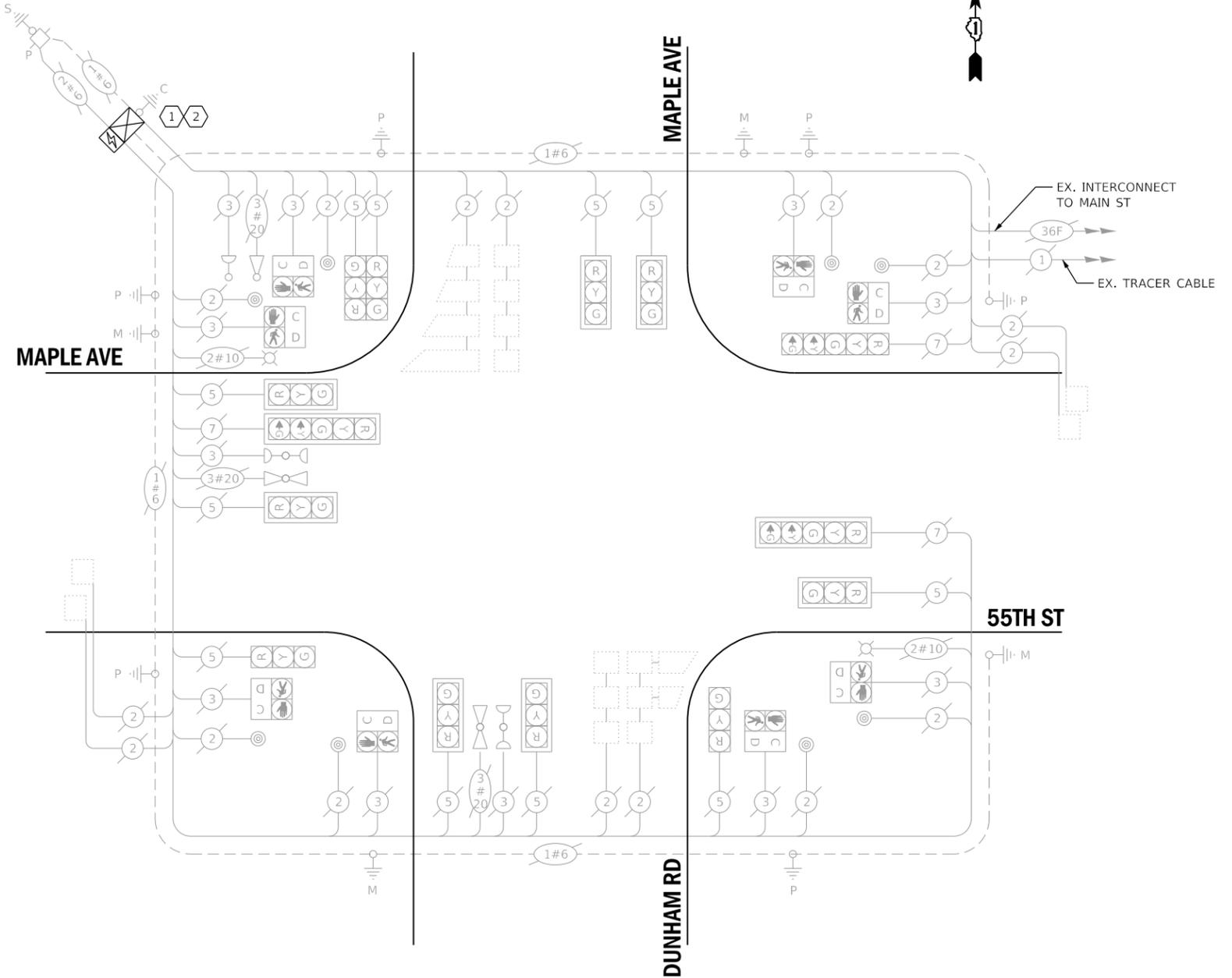
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77
(YELLOW)	14	20	5	14
(GREEN)	14	12	45	76
PERMISSIVE ARROW	6	10	10	6
PED. SIGNAL	8	20	100	160
CONTROLLER	1	100	100	100
UPS	1	25	100	25
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				708

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: _____



CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	35	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
MAPLE AVE/55TH ST AND DUNHAM RD/MAPLE AVE**

SCALE: NTS SHEET 52 OF 172 SHEETS STA. TO STA.

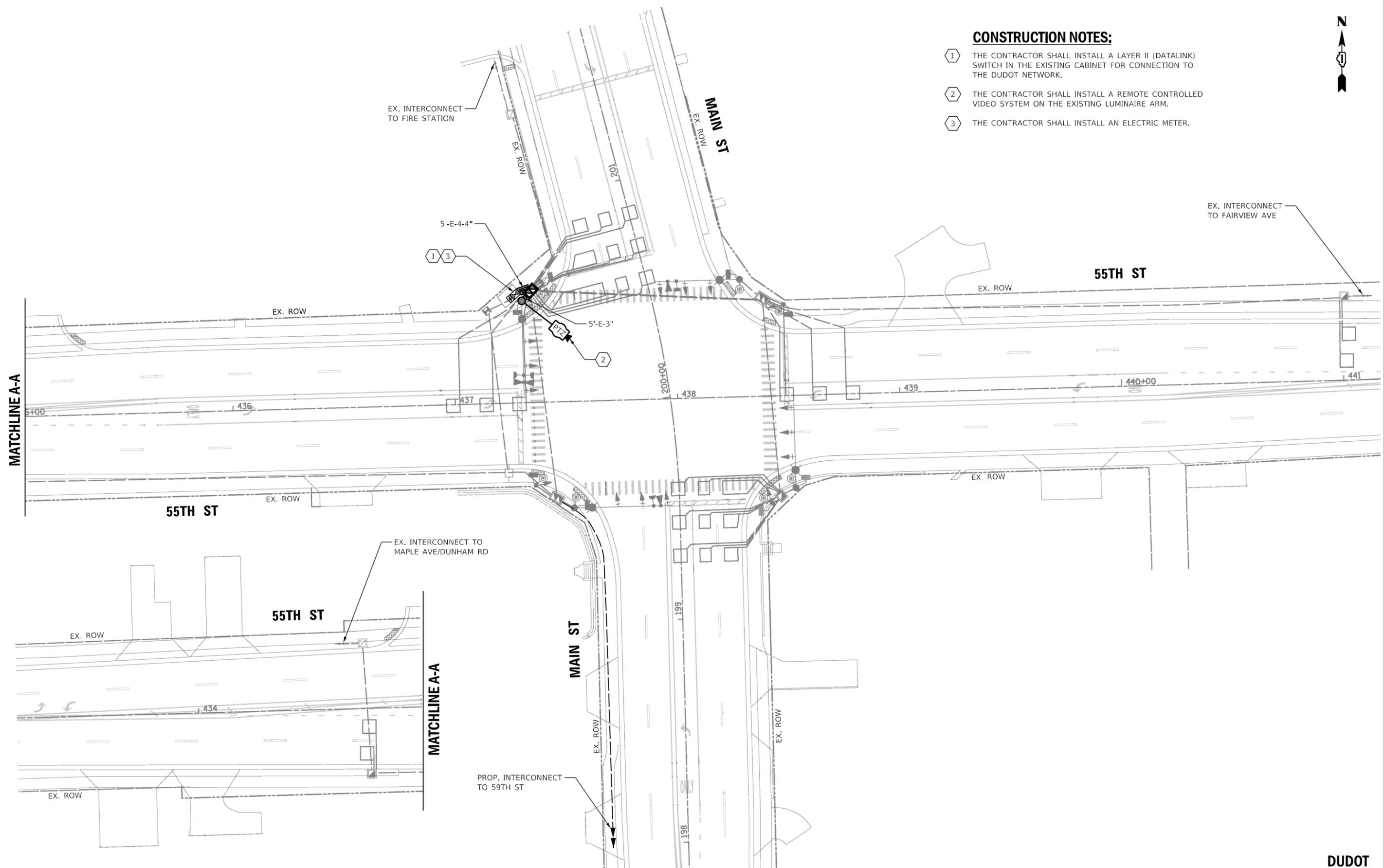
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	70
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT



CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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.



DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
34	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

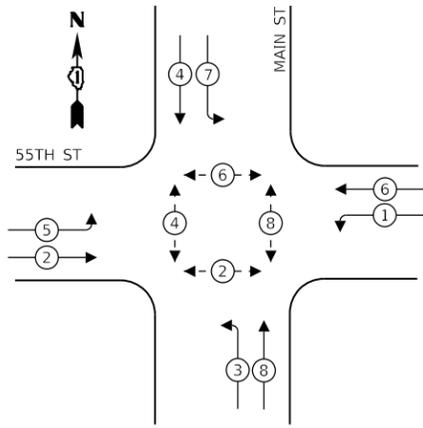
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
55TH ST AND MAIN ST**

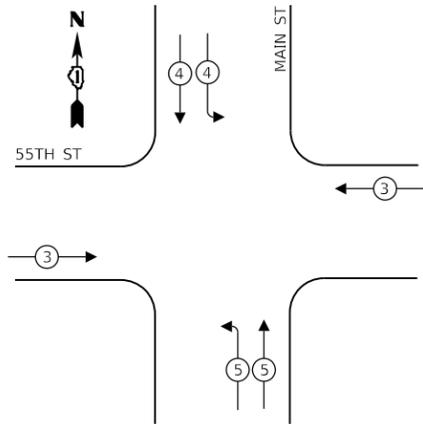
SCALE: 1"=20' SHEET 53 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	71
			CONTRACT NO.	61H22
		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)	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	4	120	50	240
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1457

ENERGY COSTS TO:

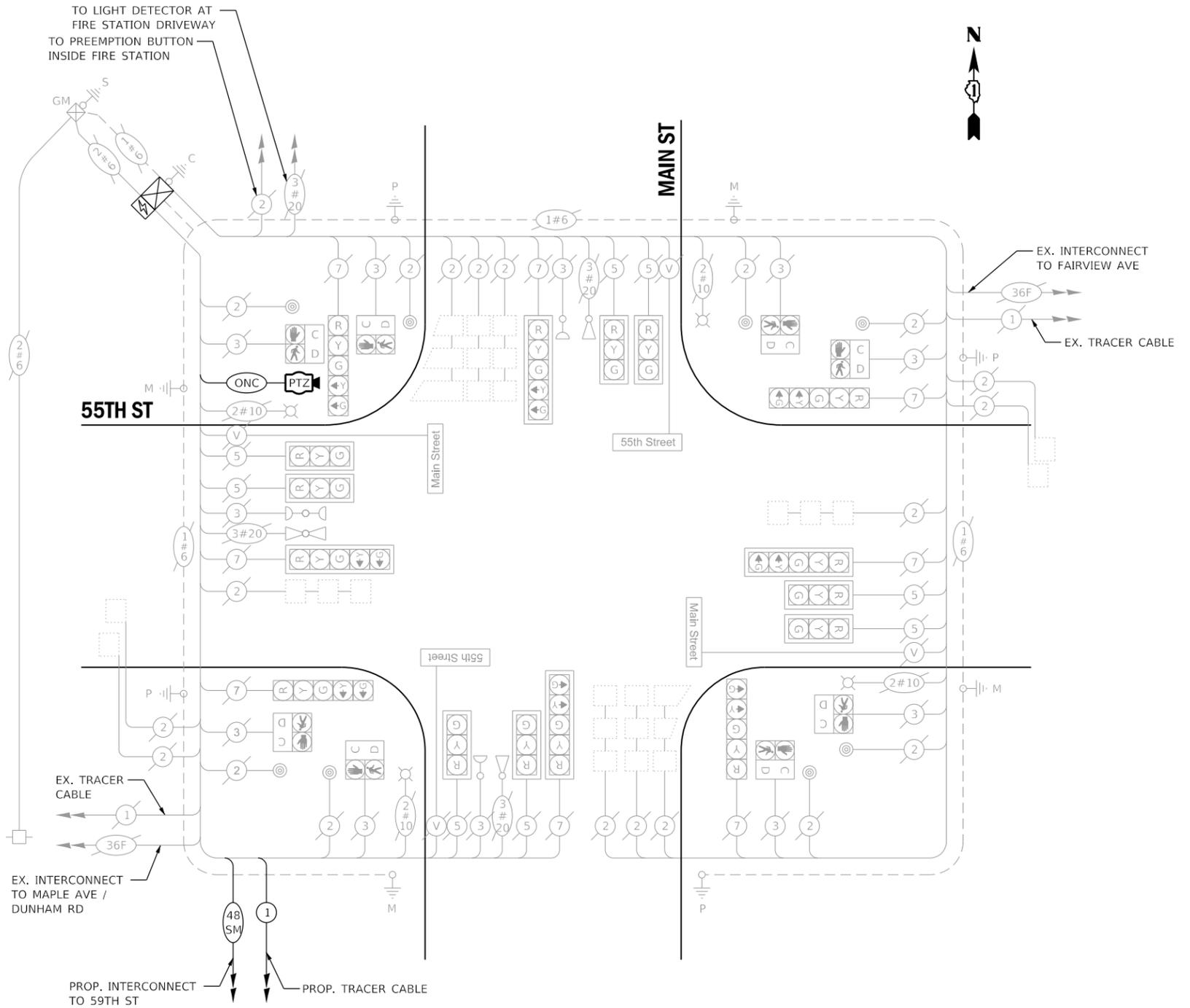
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
100	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
34	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND MAIN ST

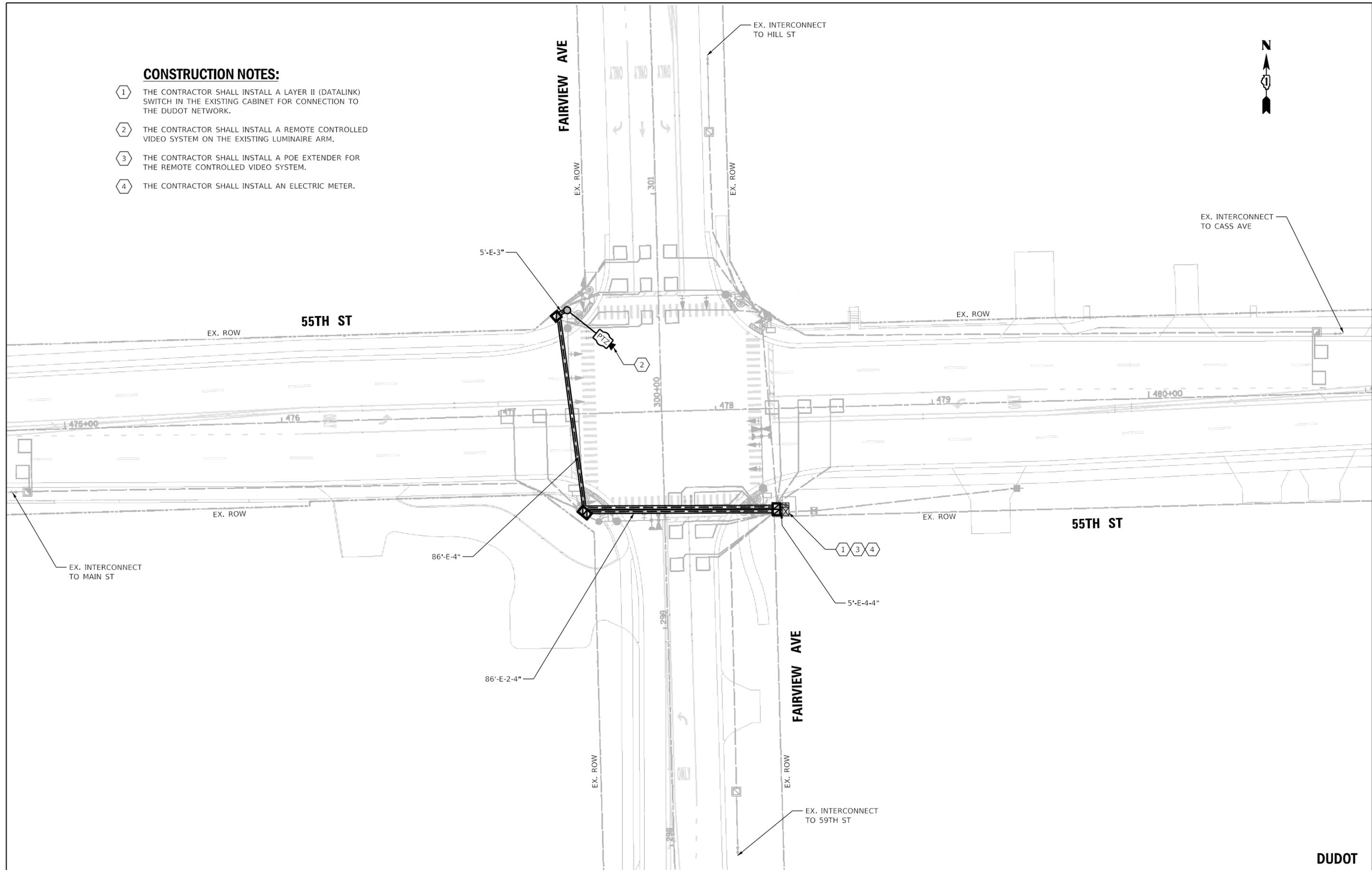
SCALE: NTS SHEET 54 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	72
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.



DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
27	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

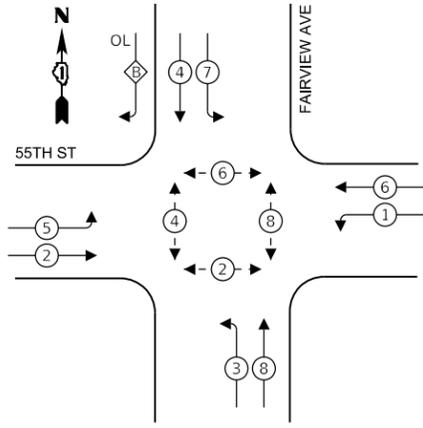
**TRAFFIC SIGNAL MODERNIZATION PLAN
55TH ST AND FAIRVIEW AVE**

SCALE: 1"=20' SHEET 55 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	73
			CONTRACT NO. 61H22	
		ILLINOIS	FED. AID PROJECT	

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-maple-ts-plan.dgn Int27

EXISTING CONTROLLER SEQUENCE



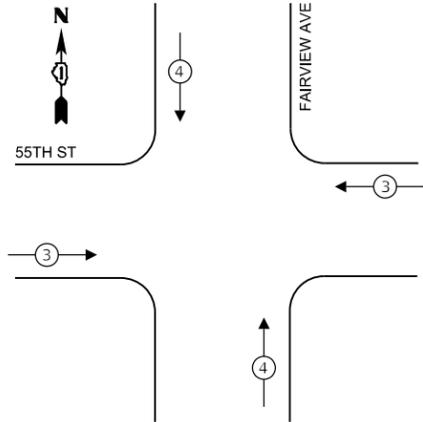
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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	20	10	10	20
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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1299

ENERGY COSTS TO:

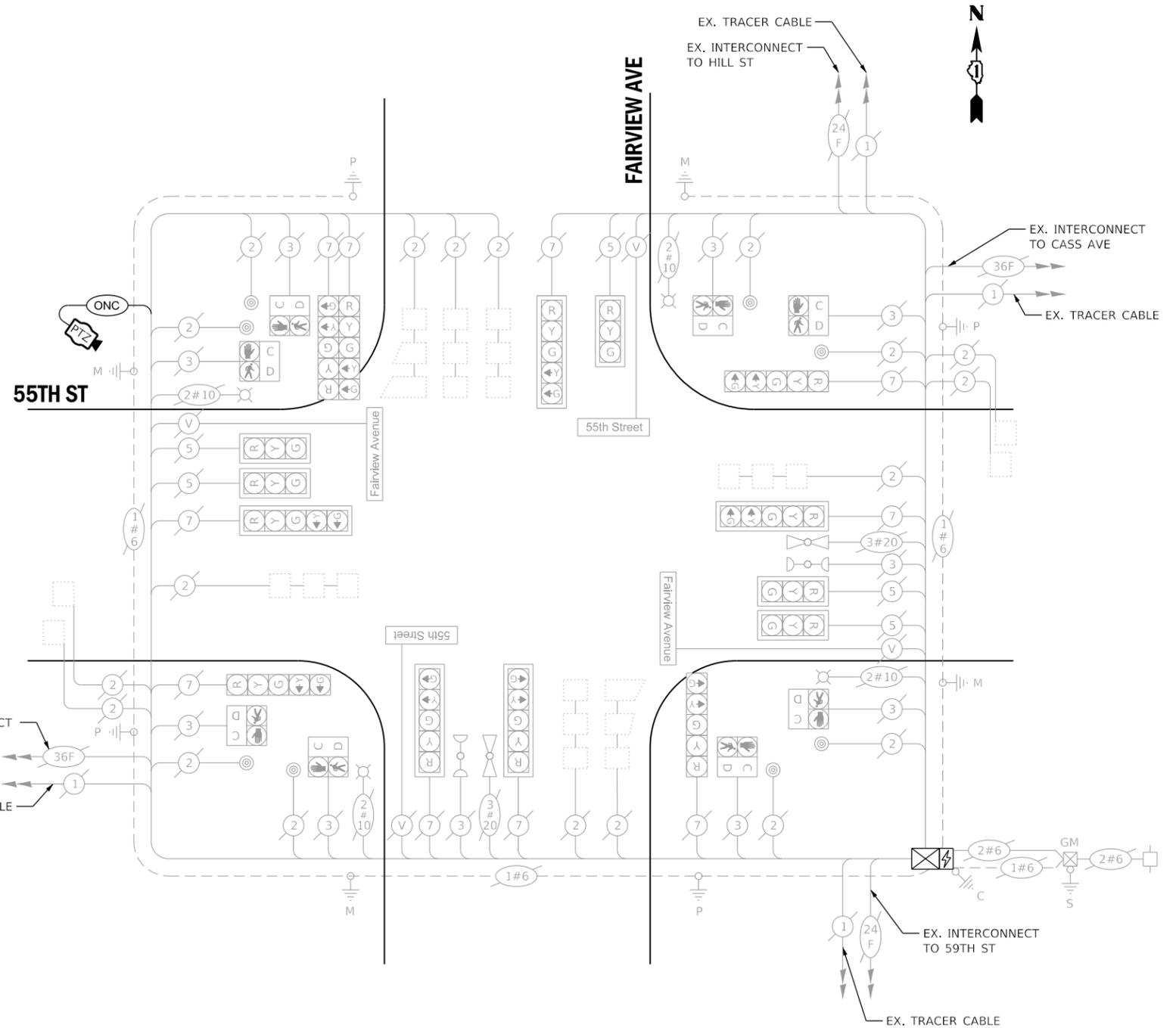
DUPAGE COUNTY D.O.T.

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
290	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	POE EXTENDER



CABLE PLAN
(NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
27	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

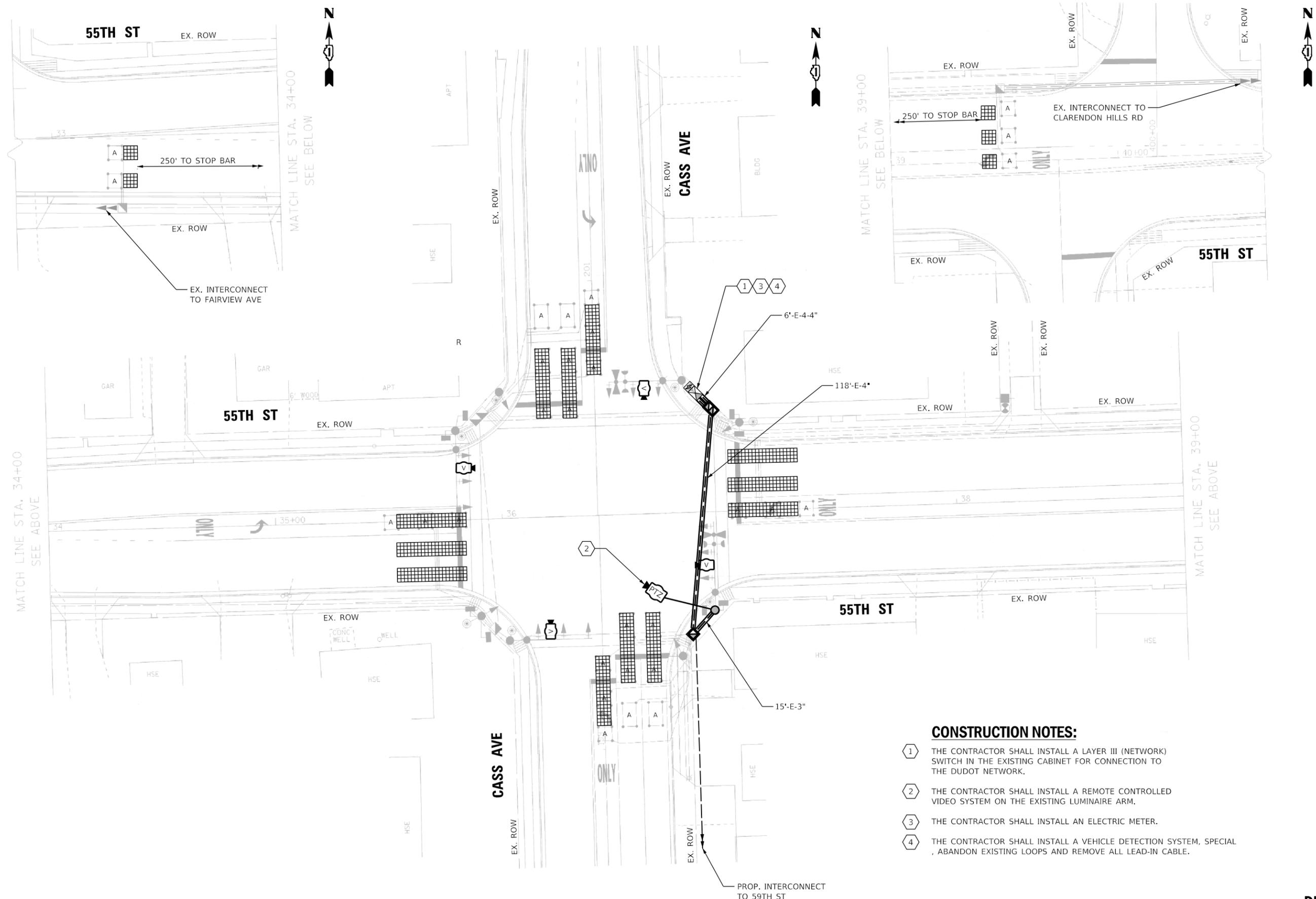
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND FAIRVIEW AVE

SCALE: NTS SHEET 56 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	74
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT



- CONSTRUCTION NOTES:**
- ① THE CONTRACTOR SHALL INSTALL A LAYER III (NETWORK) SWITCH IN THE EXISTING 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 , ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

DUDOT



USER NAME = zhoerbert	DESIGNED - DW	REVISED -
25	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

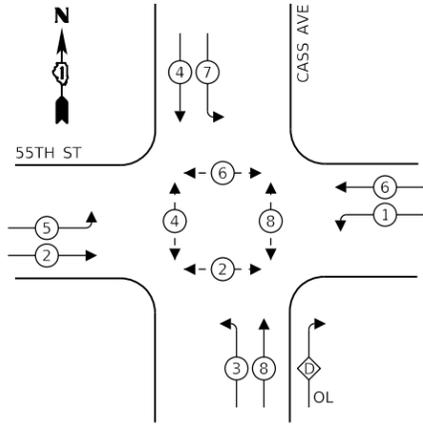
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
55TH ST AND CASS AVE**

SCALE: 1"=20' SHEET 57 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	75
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



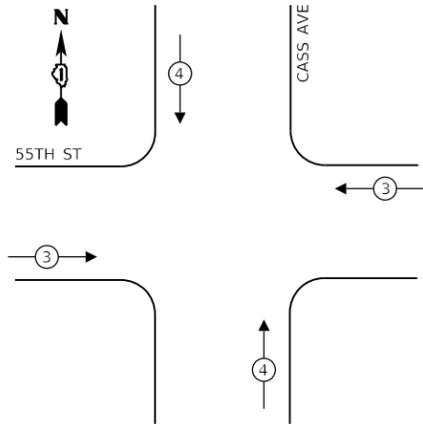
LEGEND:

- ← ⊙ → 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)	17	11	50	94
(YELLOW)	17	20	5	17
(GREEN)	17	12	45	92
PERMISSIVE ARROW	20	10	10	20
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	4	120	50	240
LUMINAIRE	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1473

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

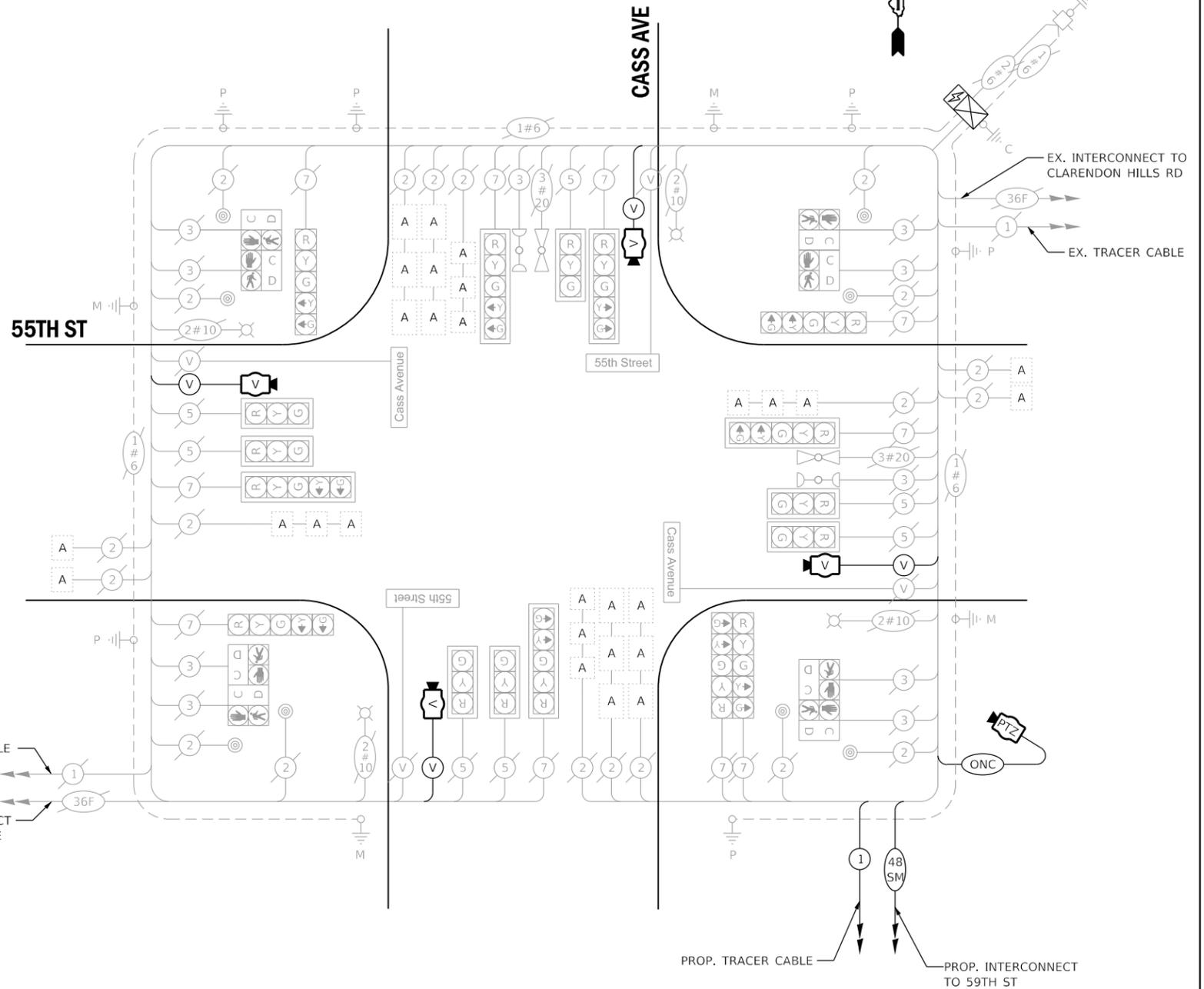
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2885	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
235	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER III (NETWORK) SWITCH
1	EACH	ELECTRIC METER
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**CABLE PLAN
(NOT TO SCALE)**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND CASS AVE**

SCALE: NTS SHEET 58 OF 172 SHEETS STA. TO STA.

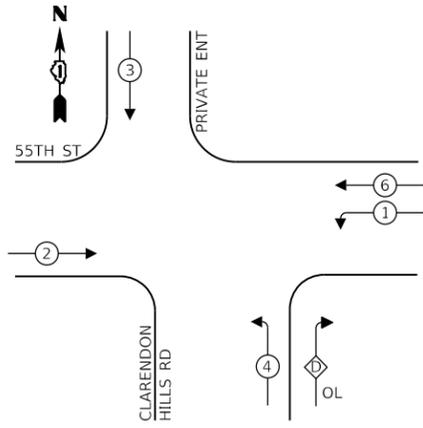
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCS5-03-TL	DUPAGE	307	76
CONTRACT NO.			61H22	
ILLINOIS		FED. AID PROJECT		

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
25	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

EXISTING CONTROLLER SEQUENCE



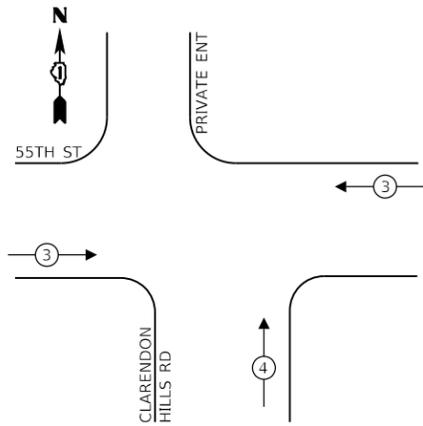
LEGEND:

- ← ⊙ → 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)	15	11	50	83
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW	10	10	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	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				974

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

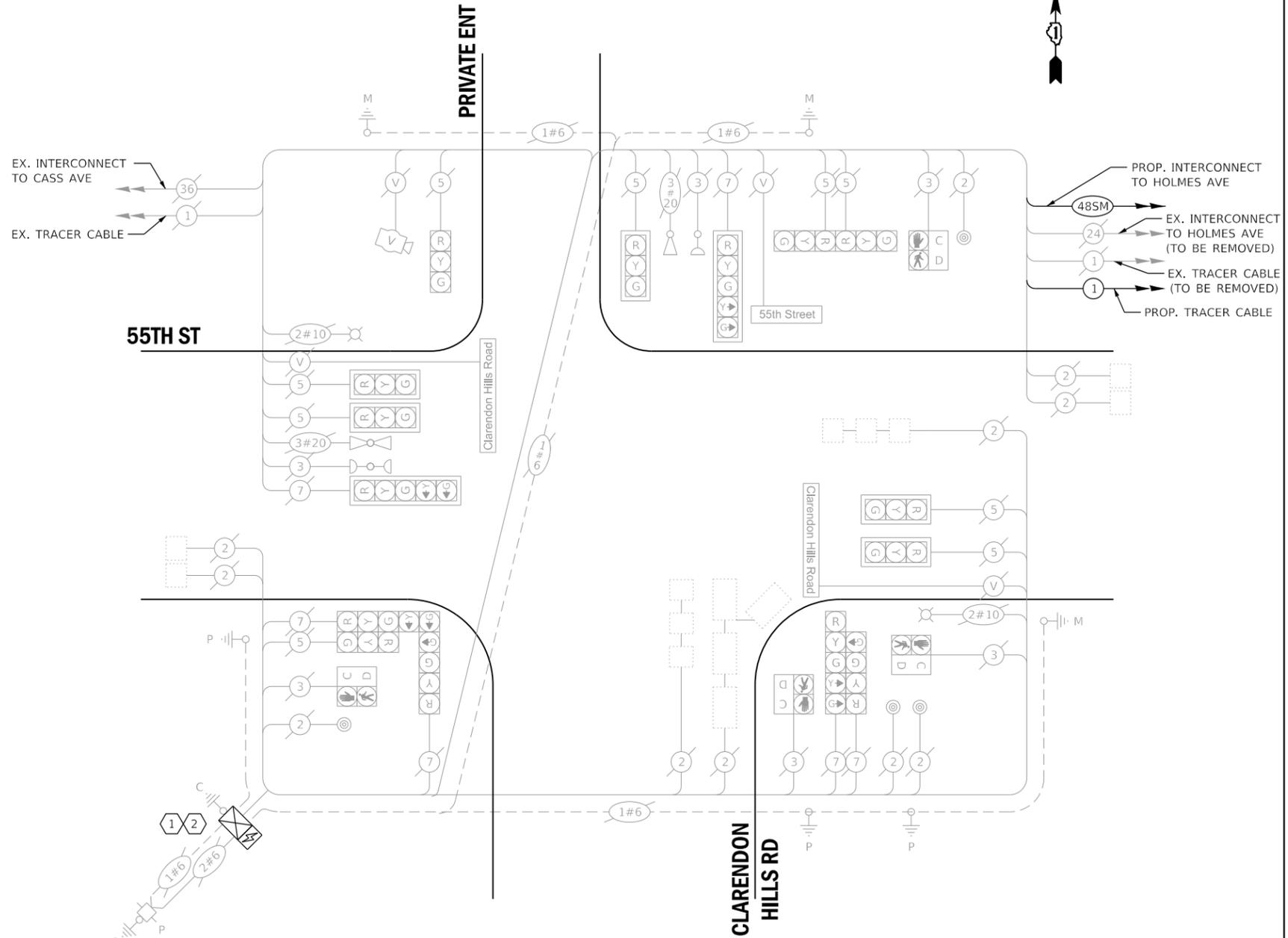
ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
PHONE: (708)-235-2692
COMPANY: COMED UNIVERSITY PARK
ACCOUNT NUMBER:

CONSTRUCTION NOTES:

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

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN
(NOT TO SCALE)

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	26	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND CLARENDON HILLS RD

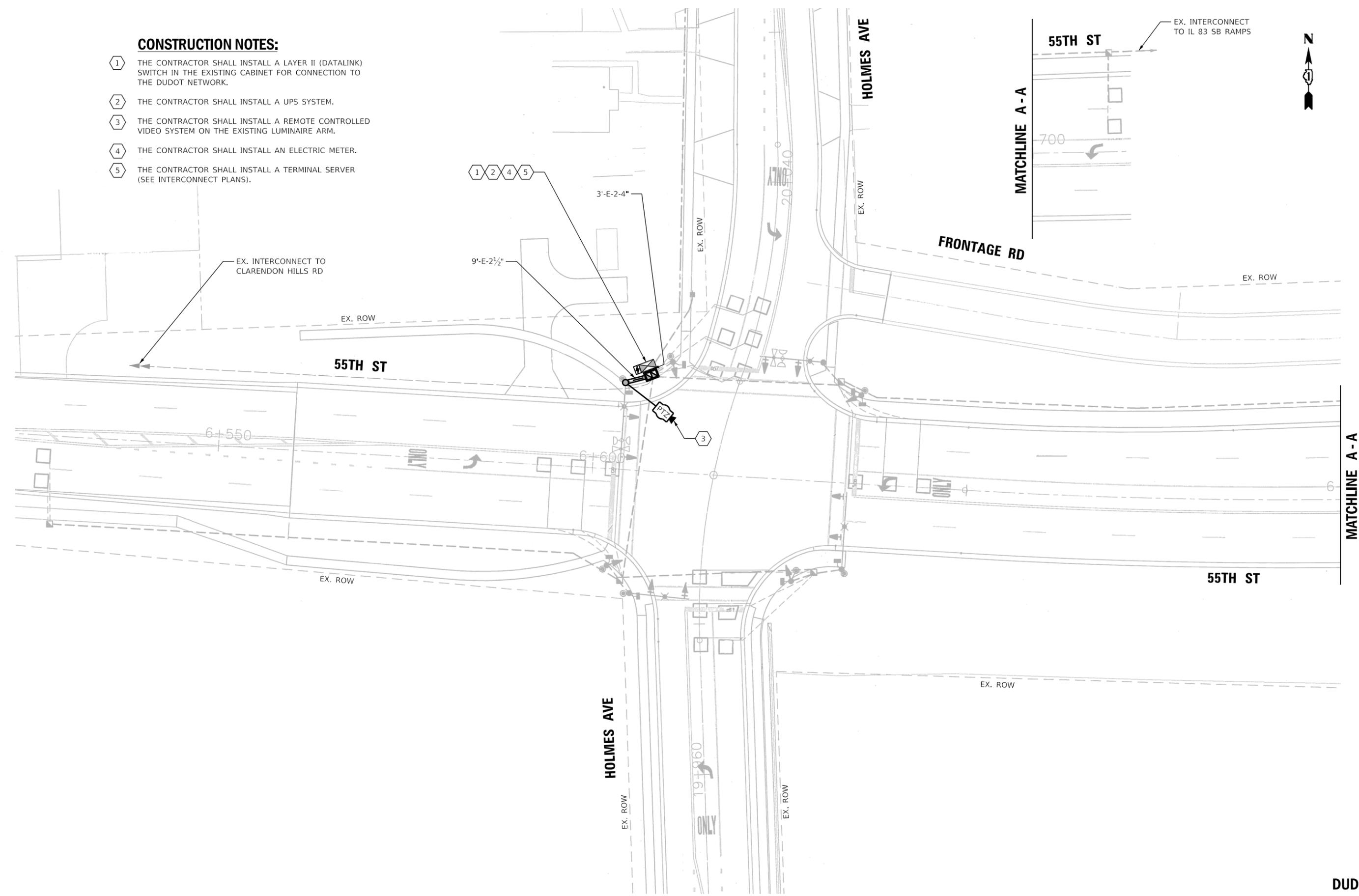
SCALE: NTS SHEET 59 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCS5-03-TL	DUPAGE	307	77
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- ② THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ③ THE CONTRACTOR SHALL INSTALL A REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- ⑤ THE CONTRACTOR SHALL INSTALL A TERMINAL SERVER (SEE INTERCONNECT PLANS).

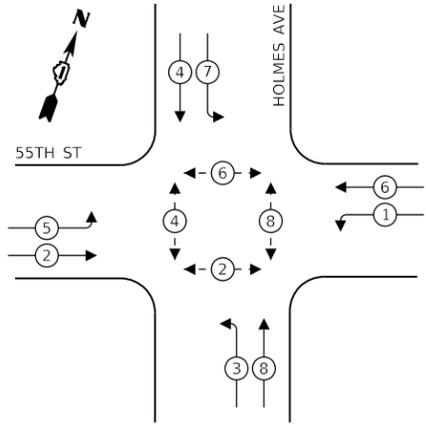


DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 55TH ST AND HOLMES AVE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	30	DRAWN - RG	REVISED -		VAR.	19-DCCSS-03-TL	DUPAGE	307	78			
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -			SCALE: 1"=20' SHEET 60 OF 172 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				
PLOT DATE = 8/2/2021	DATE -	REVISED -			CONTRACT NO. 61H22							

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-maple-ts-plan.dgn
Int30

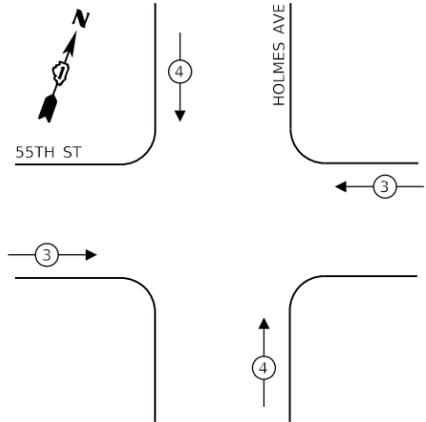
EXISTING CONTROLLER SEQUENCE



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
TOTAL =				1019

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

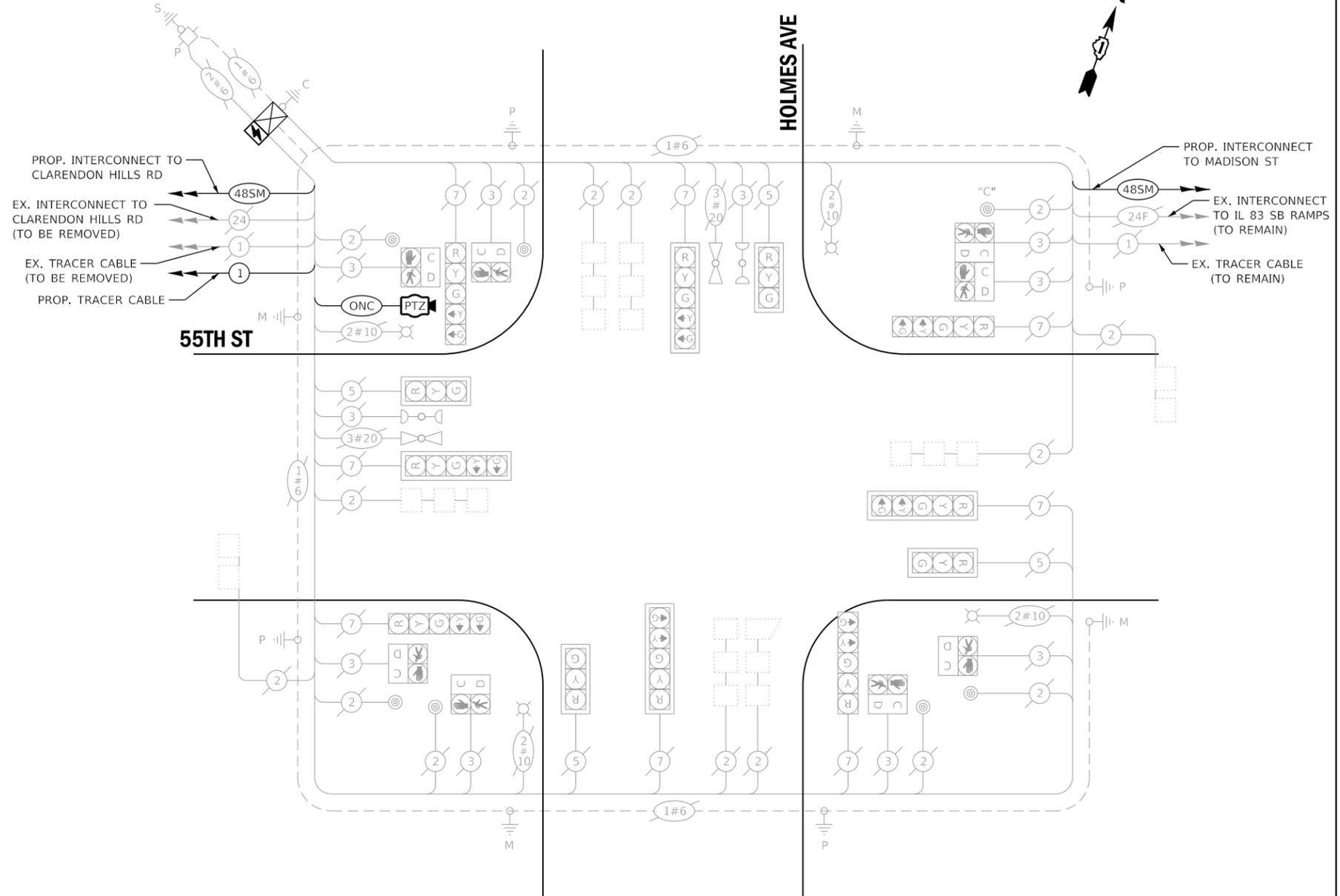
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS
1	EACH
100	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
OUTDOOR RATED NETWORK CABLE
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
ELECTRIC METER



**CABLE PLAN
(NOT TO SCALE)**

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

NOTE:
EXISTING 24F TO REMAIN IN USE FOR SERIAL
COMMUNICATION TO IL 83 RAMP INTERSECTIONS.

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	30	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

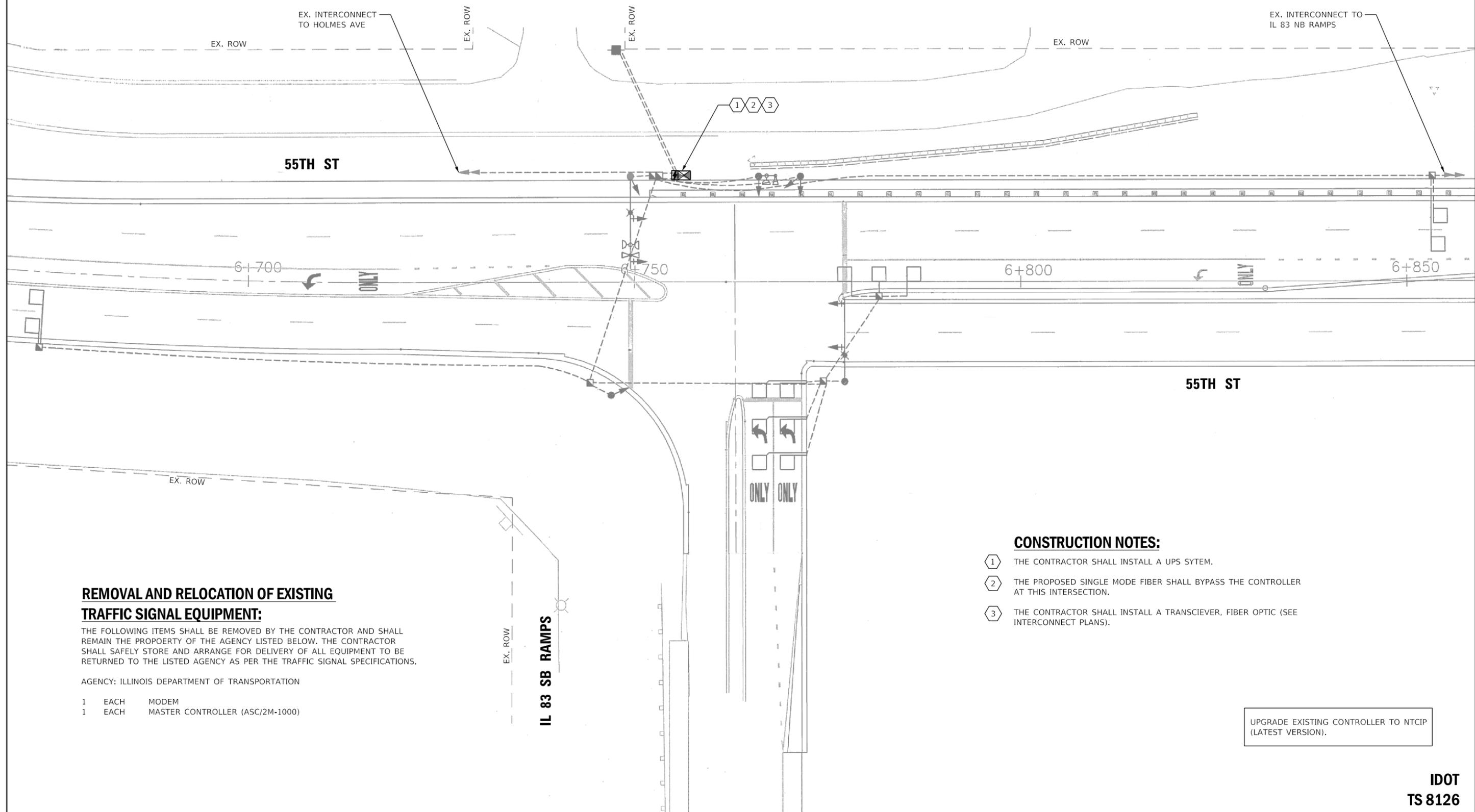
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND HOLMES AVE**

SCALE: NTS SHEET 61 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	79
CONTRACT NO. 61H22			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 DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: ILLINOIS DEPARTMENT OF TRANSPORTATION

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 2 THE PROPOSED SINGLE MODE FIBER SHALL BYPASS THE CONTROLLER AT THIS INTERSECTION.
- 3 THE CONTRACTOR SHALL INSTALL A TRANSCIEVER, FIBER OPTIC (SEE INTERCONNECT PLANS).

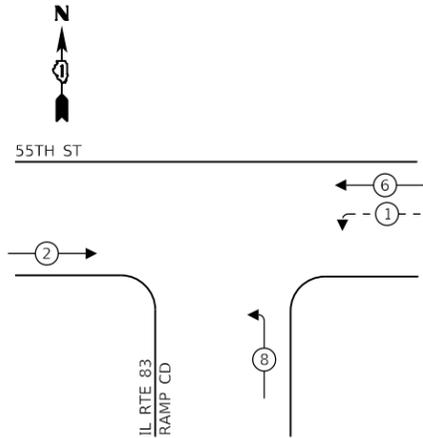
UPGRADE EXISTING CONTROLLER TO NTICP (LATEST VERSION).

**IDOT
TS 8126**

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 55TH ST AND IL 83 SB RAMP				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	32	DRAWN - RG	REVISED -						VAR.	19-DCCSS-03-TL	DUPAGE	307	80
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 62	OF 172 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 8/2/2021	DATE -	REVISED -					CONTRACT NO. 61H22					

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-maple-ts-plan.dgn
Int32

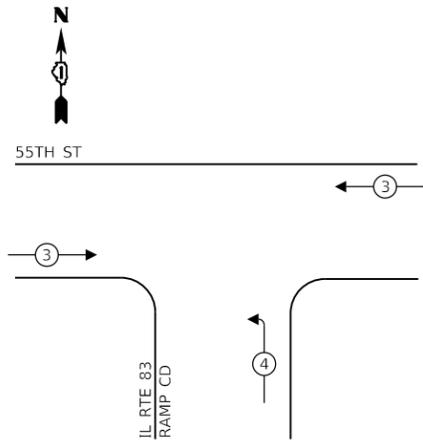
EXISTING CONTROLLER SEQUENCE



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)	9	11	50	50
(YELLOW)	9	20	5	9
(GREEN)	9	12	45	49
PERMISSIVE ARROW	4	10	10	4
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 =				487

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

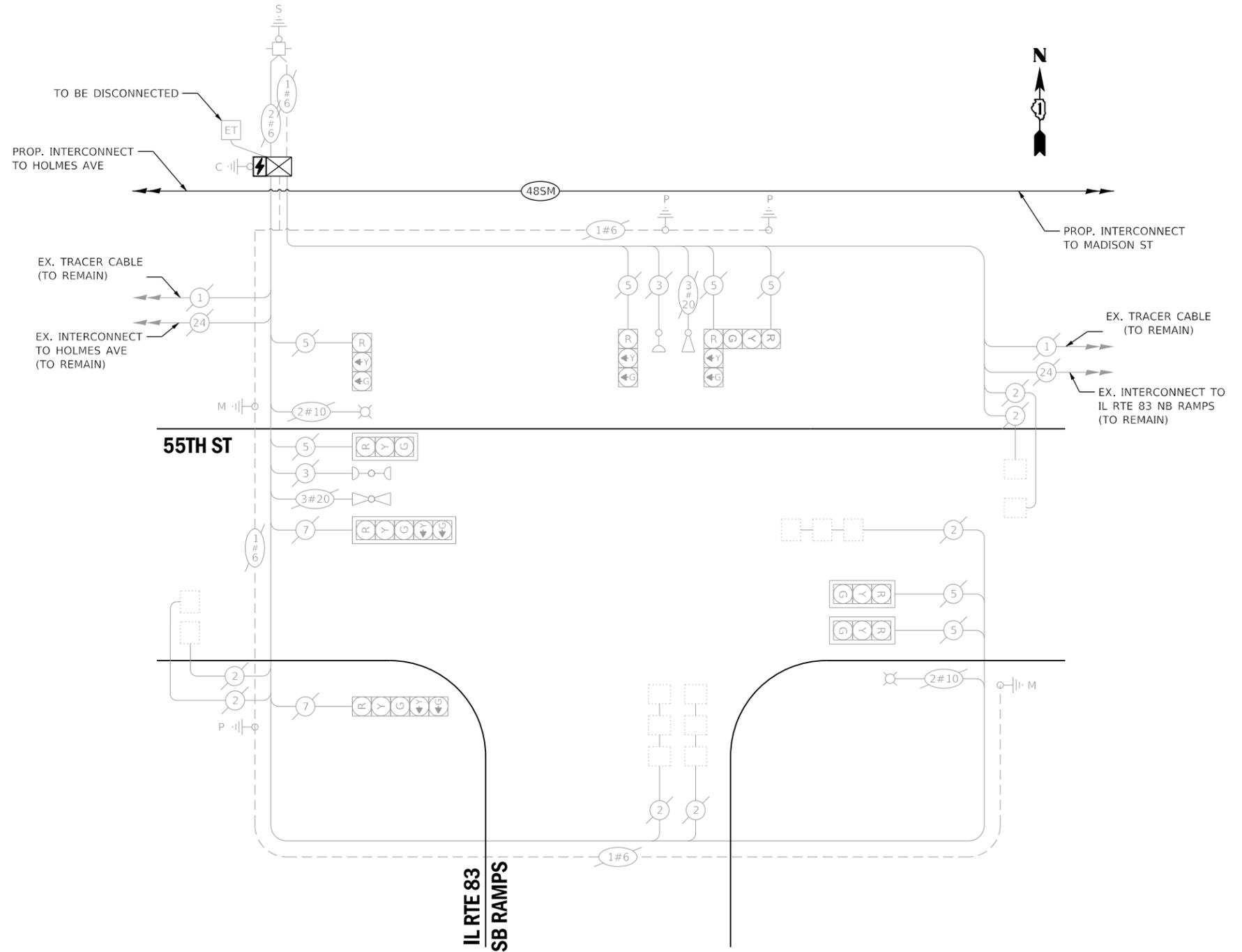
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL



CABLE PLAN
(NOT TO SCALE)

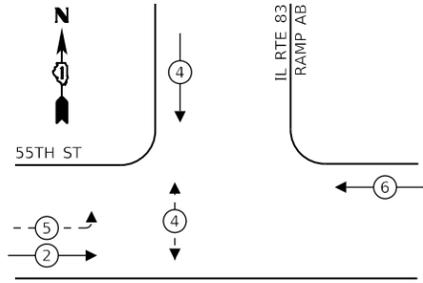
NOTE:
EXISTING 24F TO REMAIN IN USE FOR SERIAL COMMUNICATION TO IL 83 RAMP INTERSECTION AND HOLMES AVE.

UPGRADE EXISTING CONTROLLER TO NTCIP (LATEST VERSION).

IDOT
TS 8126

	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 55TH ST AND IL 83 SB RAMPS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	32	DRAWN - RG	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	81
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -					CONTRACT NO. 61H22		
	PLOT DATE = 8/2/2021	DATE -	REVISED -					ILLINOIS	FED. AID PROJECT	

EXISTING CONTROLLER SEQUENCE



LEGEND:

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

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- ② THE PROPOSED FIBER SHALL BYPASS THE CONTROLLER AT THIS INTERSECTION.
- ③ THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).
- ④ THE CONTRACTOR SHALL INSTALL A TRANSCEIVER, FIBER OPTIC (SEE INTERCONNECT PLANS).

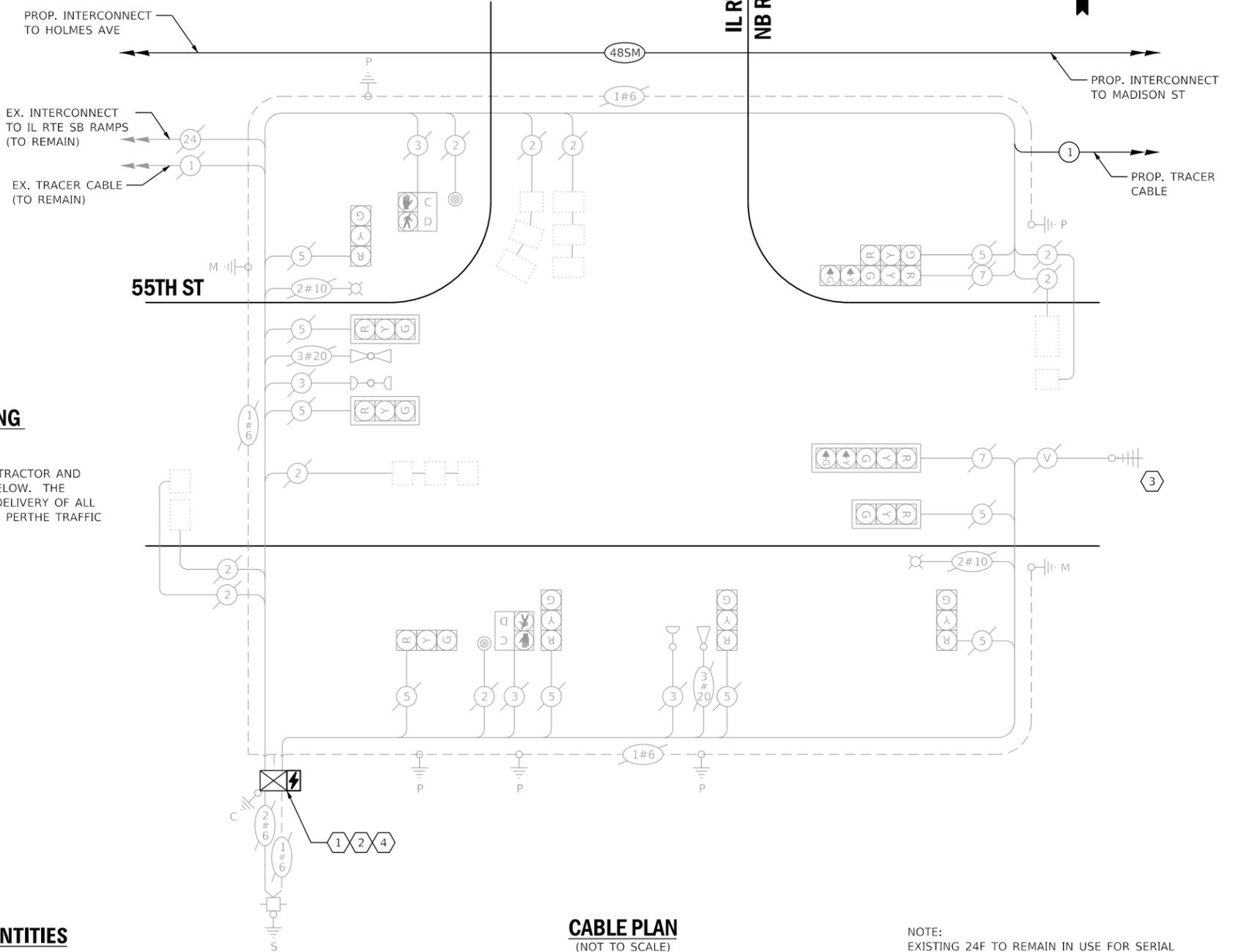
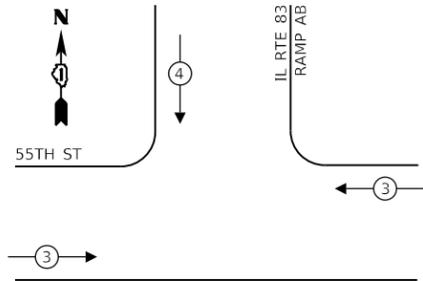
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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 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 WIRELESS INTERCONNECT (COMPLETE)

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

NOTE:
EXISTING 24F TO REMAIN IN USE FOR SERIAL COMMUNICATION TO IL 83 RAMP INTERSECTION AND HOLMES AVE.

UPGRADE EXISTING CONTROLLER TO NTCIP (LATEST VERSION).

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	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	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				551

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196
 ENERGY SUPPLY: CONTACT: MR. ILYAS MOHIUDDIN
 PHONE: (708)-235-2692
 COMPANY: COMED UNIVERSITY PARK
 ACCOUNT NUMBER:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL

SCHEDULE OF QUANTITIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND IL 83 NB RAMP

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	82
				CONTRACT NO. 61H22
				ILLINOIS FED. AID PROJECT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
31	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

IDOT
TS 8125

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 DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

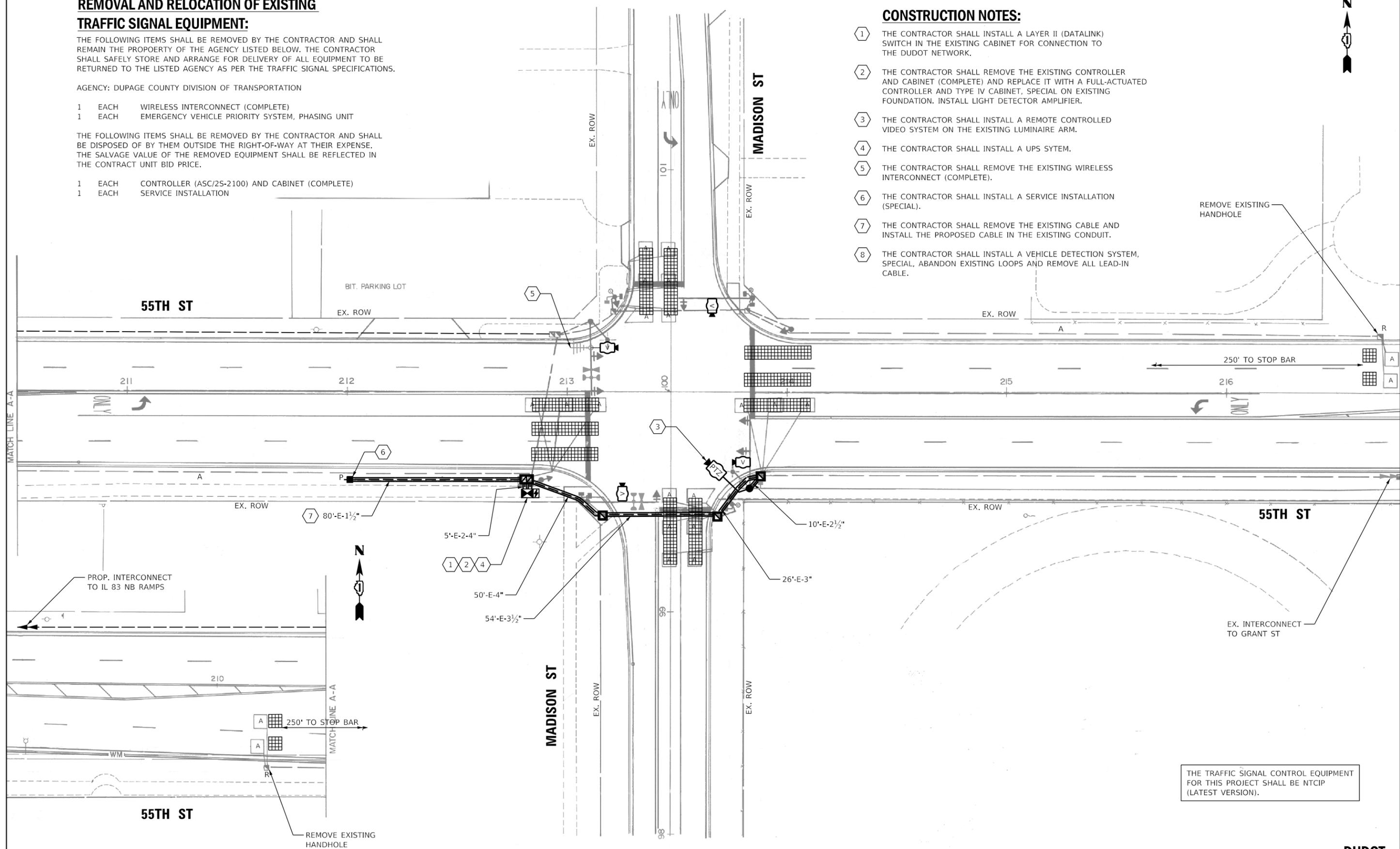
- 1 EACH WIRELESS INTERCONNECT (COMPLETE)
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

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 SERVICE INSTALLATION

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 REMOTE CONTROLLED VIDEO SYSTEM ON THE EXISTING LUMINAIRE ARM.
- 4 THE CONTRACTOR SHALL INSTALL A UPS SYSTEM.
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).
- 6 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 7 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 8 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

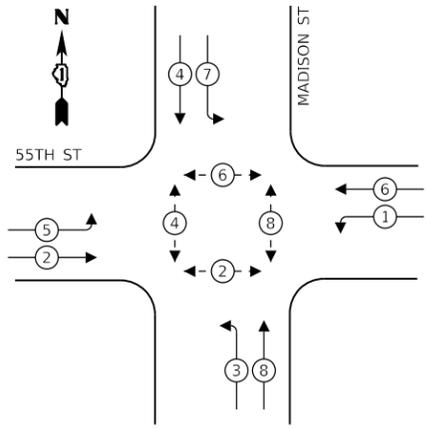


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NTCIP (LATEST VERSION).

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 55TH ST AND MADISON ST				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	33	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 65	OF 172	SHEETS	STA.	TO STA.	19-DCCSS-03-TL	DUPAGE	307
	PLOT SCALE = 40,0000' / in.	CHECKED - ZH	REVISED -										
	PLOT DATE = 8/2/2021	DATE -	REVISED -										
FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-maple-ts-plan.dgn Int33													

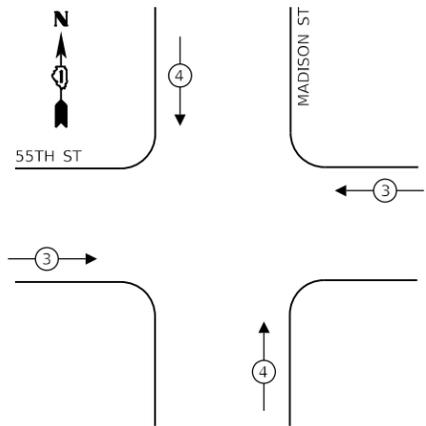
EXISTING CONTROLLER SEQUENCE



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
TOTAL =				895

ENERGY COSTS TO:

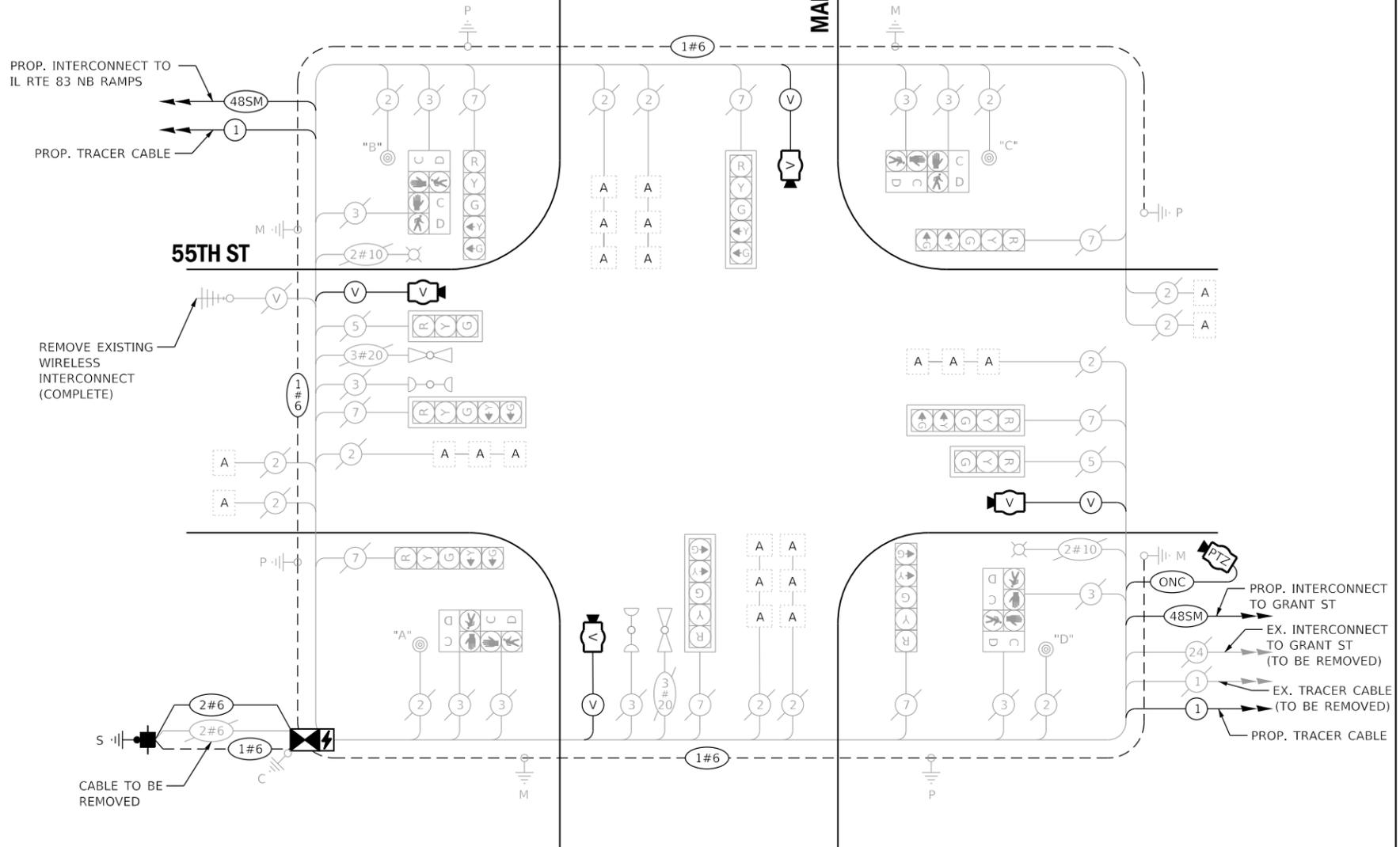
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
100	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	LIGHT DETECTOR AMPLIFIER
2276	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE EXISTING HANDHOLE
80	FOOT	ROD AND CLEAN EXISTING CONDUIT
250	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	REMOTE CONTROLLED VIDEO SYSTEM
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES



**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 TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NCTIP (LATEST VERSION).



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
33	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/>		
PLOT DATE = 8/2/2021	CHECKED - DW	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND MADISON ST**

SCALE: NTS SHEET 66 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	84
			CONTRACT NO.	61H22
		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 CABINET (COMPLETE) AND REPLACE IT WITH A FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL ON EXISTING FOUNDATION. INSTALL LIGHT DETECTOR APLIFIER.
- 3 THE CONTRACTOR SHALL INSTALL A GROUND MOUNTED UPS JUST SOUTH OF THE EXISTING CONTROLLER CABINET OR AS DIRECTED BY THE ENGINEER.
- 4 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION, GROUND MOUNTED, METERED ON CONCRETE FOUNDATION, TYPE A.
- 5 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE FROM THE EXISTING CONDUIT AND THEN ABANDON THE EXISTING CONDUIT.
- 6 THE CONTRACTOR SHALL INSTALL THE PROPOSED CABLE IN THE PROPOSED CONDUIT.
- 7 THE CONTRACTOR SHALL INSTALL THE NECESSARY CABLES BETWEEN THE GROUND MOUNTED UPS AND CONTROLLER IN ORDER FOR THE GROUND MOUNTED UPS TO FUNCTION PER SPECIFICATION. CABLES INSTALLED IN THIS CONDUIT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR UNINTERRUPTABLE POWER SUPPLY GROUND MOUNTED.

REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

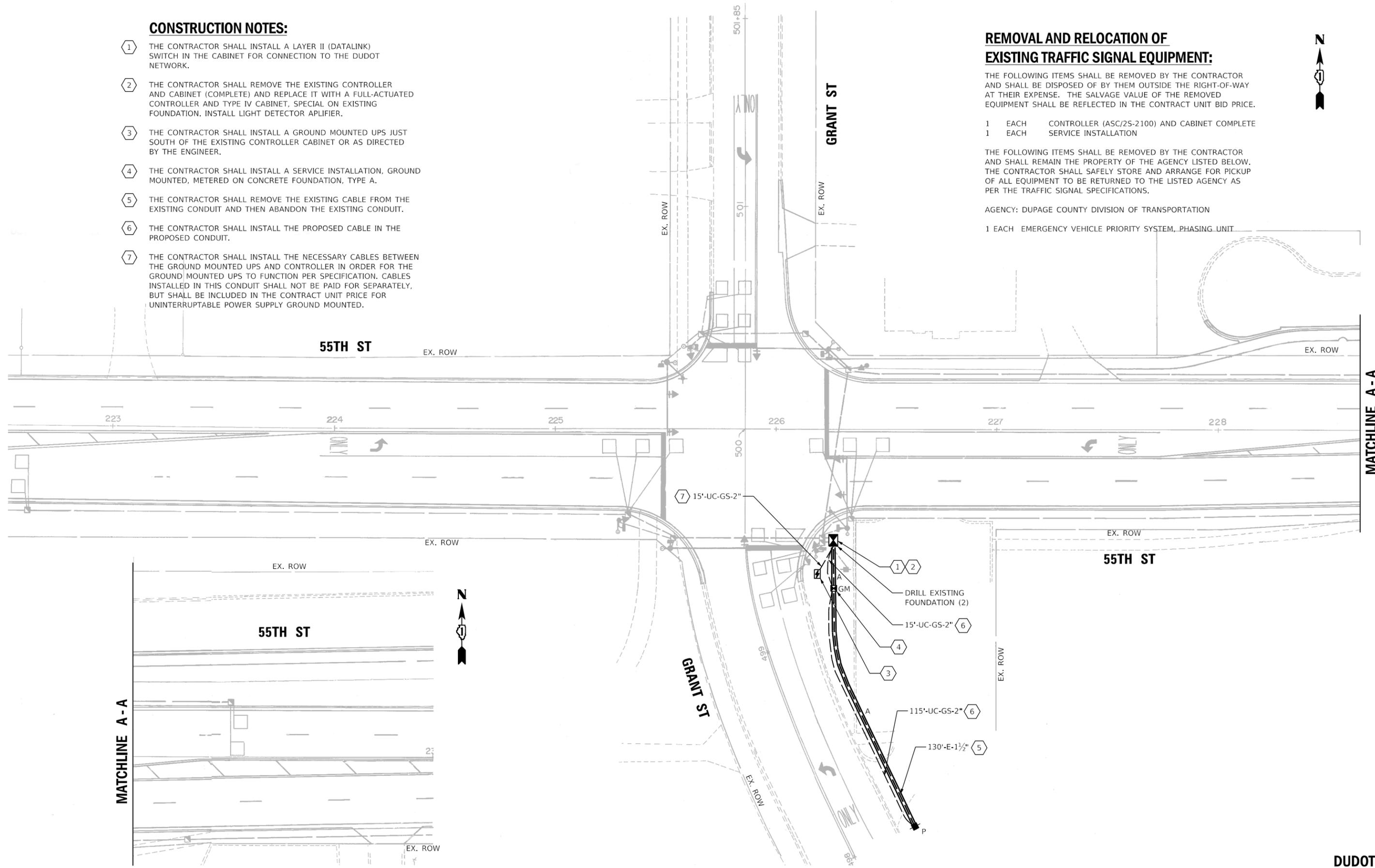
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

- 1 EACH CONTROLLER (ASC/25-2100) AND CABINET COMPLETE
- 1 EACH SERVICE INSTALLATION

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT



MATCHLINE A - A

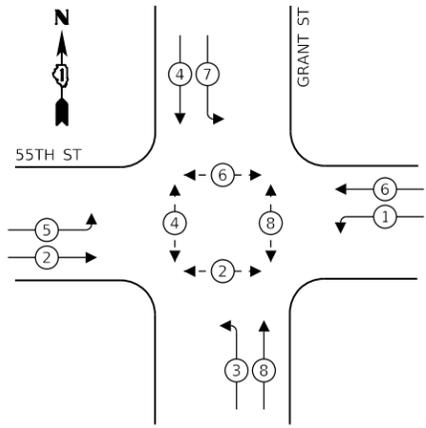
MATCHLINE A - A



	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 55TH ST AND GRANT ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	29	DRAWN - RG	REVISED -		SCALE: 1"=20'	SHEET 67	OF 172 SHEETS	STA.	TO STA.	VAR.	19-DCCSS-03-TL	DUPAGE
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ZH	REVISED -									
	PLOT DATE = 8/2/2021	DATE -	REVISED -									
DUDOT												
ILLINOIS FED. AID PROJECT												

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-maple-ts-plan.dgn
Int29

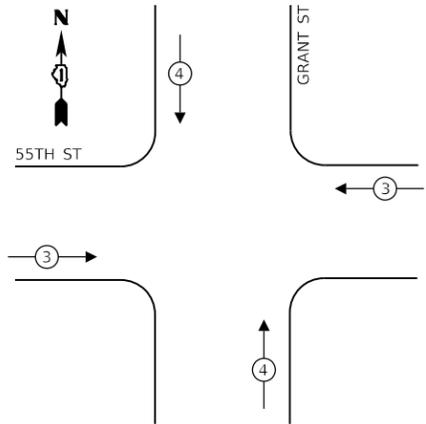
EXISTING CONTROLLER SEQUENCE



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	-	150	100	-
BLANK-OUT SIGN	2	25	5	3
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				673

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:

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
145	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
175	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
4	FOOT	CONCRETE FOUNDATION, TYPE A
2	EACH	DRILL EXISTING FOUNDATION
10	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
130	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, GROUND MOUNTED, METERED
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

GROUNDING EXISTING HANDHOLE FRAME AND COVER

ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C

ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C

CONCRETE FOUNDATION, TYPE A

DRILL EXISTING FOUNDATION

INDUCTIVE LOOP DETECTOR

LIGHT DETECTOR AMPLIFIER

REMOVE ELECTRIC CABLE FROM CONDUIT

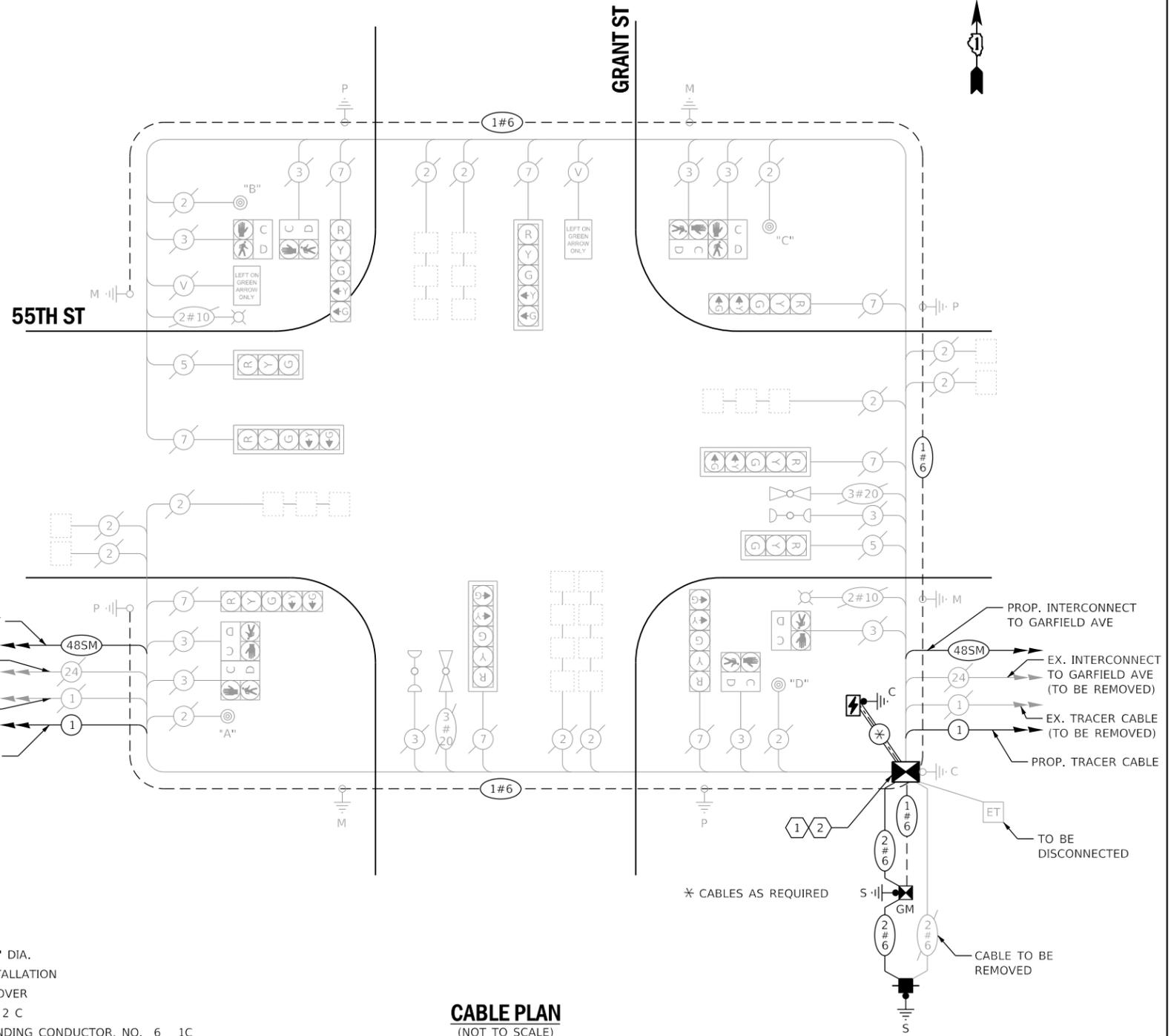
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

SERVICE INSTALLATION, GROUND MOUNTED, METERED

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL

UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED

LAYER II (DATALINK) SWITCH



CABLE PLAN
(NOT TO SCALE)

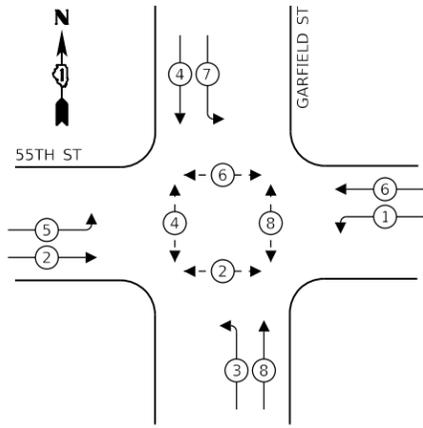
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4.
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6.
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8.
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 8 AND 2.

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

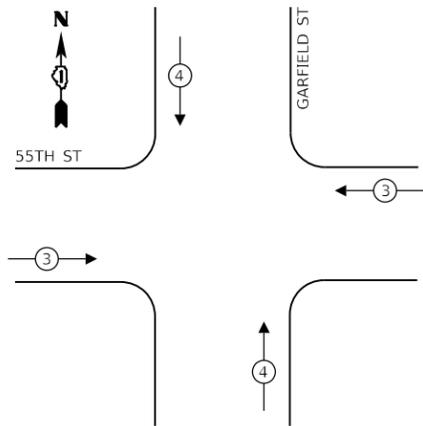
DUDOT

	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES 55TH ST AND GRANT ST			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	29	DRAWN - RG	REVISED -		SCALE: NTS	SHEET 68	OF 172 SHEETS	STA.	TO STA.	19-DCCSS-03-TL	DUPAGE	307
	PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -									
	PLOT DATE = 8/2/2021	DATE -	REVISED -									

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATA LINK) SWITCH IN THE EXISTING CABINET FOR CONNECTING THE PTZ CAMERA 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 UPS SYSTEM.
- 4 THE CONTRACTOR SHALL REMOVE THE EXISTING WIRELESS INTERCONNECT (COMPLETE).
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT (180'-E-1 1/2").

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
- 1 EACH SERVICE INSTALLATION

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

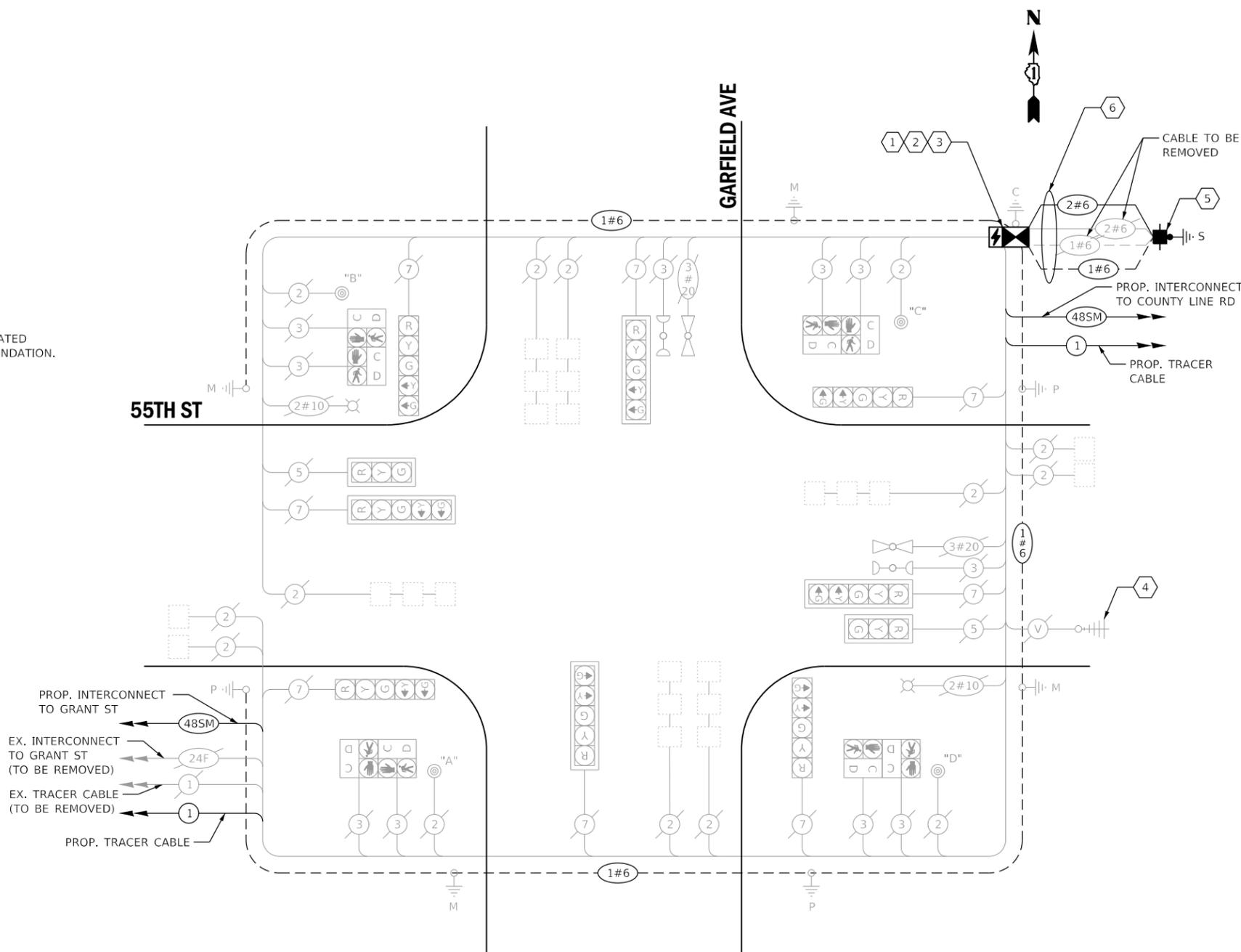
- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
- 1 EACH WIRELESS INTERCONNECT (COMPLETE)

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
200	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
10	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
360	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
180	FOOT	ROD AND CLEAN EXISTING CONDUIT
1	EACH	SERVICE INSTALLATION (SPECIAL)
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	LAYER II (DATA LINK) SWITCH

SCHEDULE OF QUANTITIES

55TH ST

GARFIELD AVE



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

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	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				670

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:



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
28	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED - DW</td> <td>REVISED -</td>	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND GARFIELD AVE

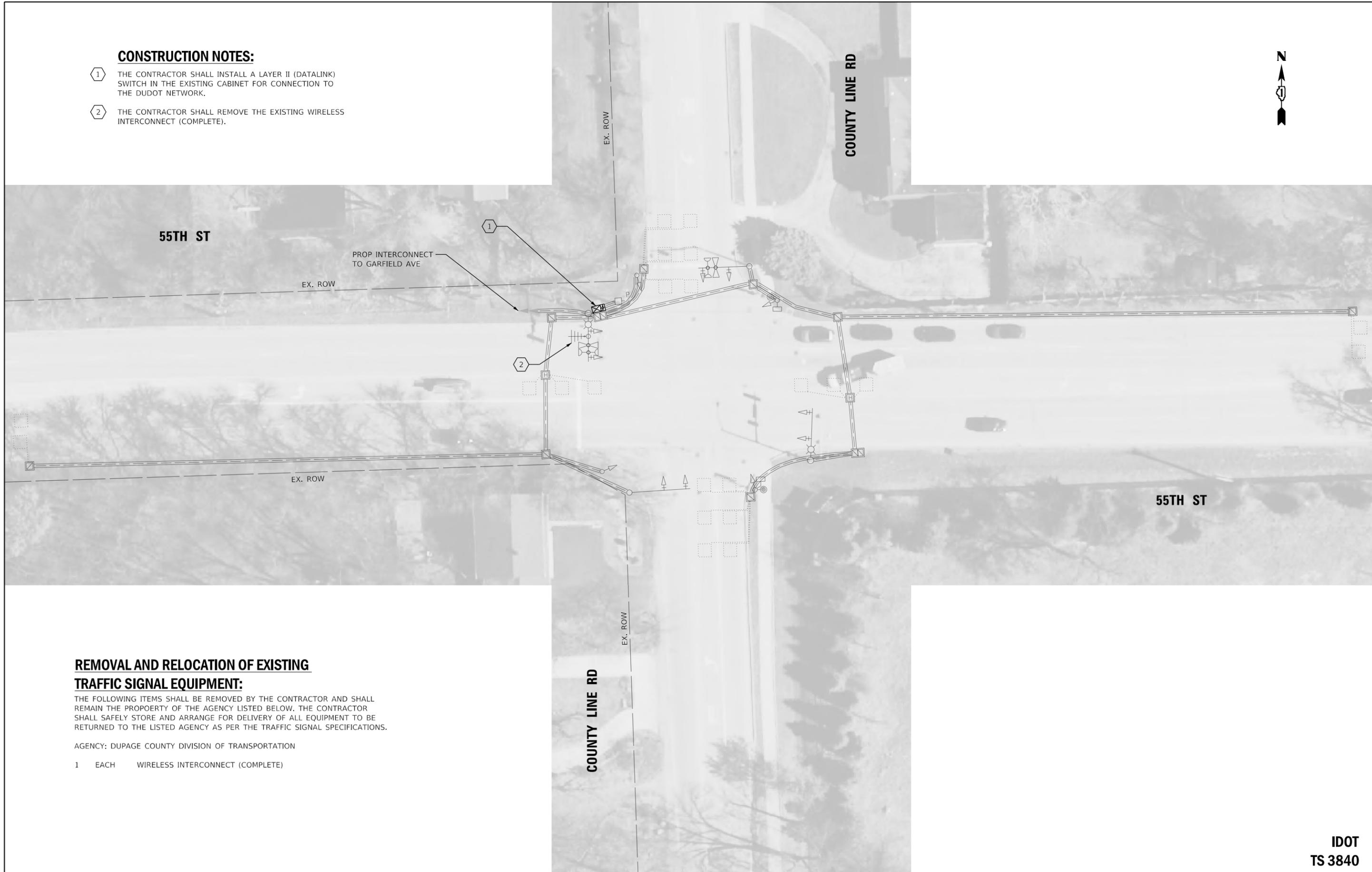
SCALE: NTS SHEET 69 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	87
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

DUDOT

CONSTRUCTION NOTES:

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



REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPOERTY 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.

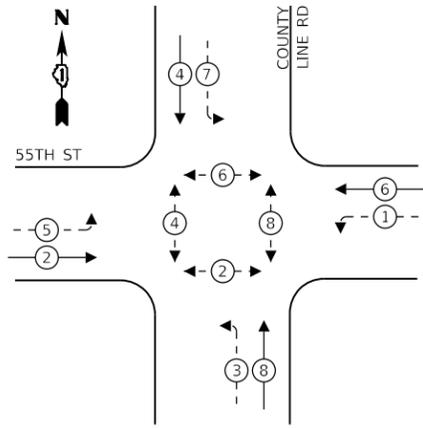
AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH WIRELESS INTERCONNECT (COMPLETE)

**IDOT
TS 3840**

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN 55TH ST AND COUNTY LINE RD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	201	DRAWN - RG	REVISED -		VAR.	19-DCCSS-03-TL	DUPAGE	307	88			
PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -			CONTRACT NO. 61H22							
PLOT DATE = 8/2/2021	DATE -	REVISED -			SCALE: 1"=20'	SHEET 70	OF 172 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

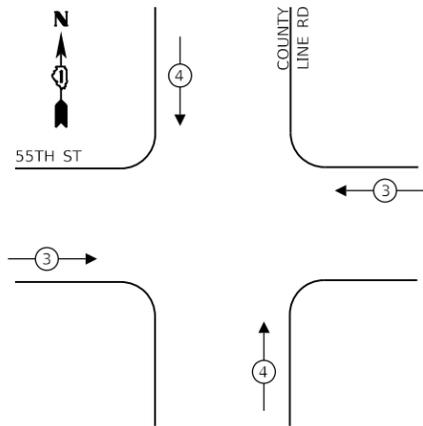
EXISTING CONTROLLER SEQUENCE



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	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	2	250	50	250
PTZ CAMERA	-	75	100	-
TOTAL =				574

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

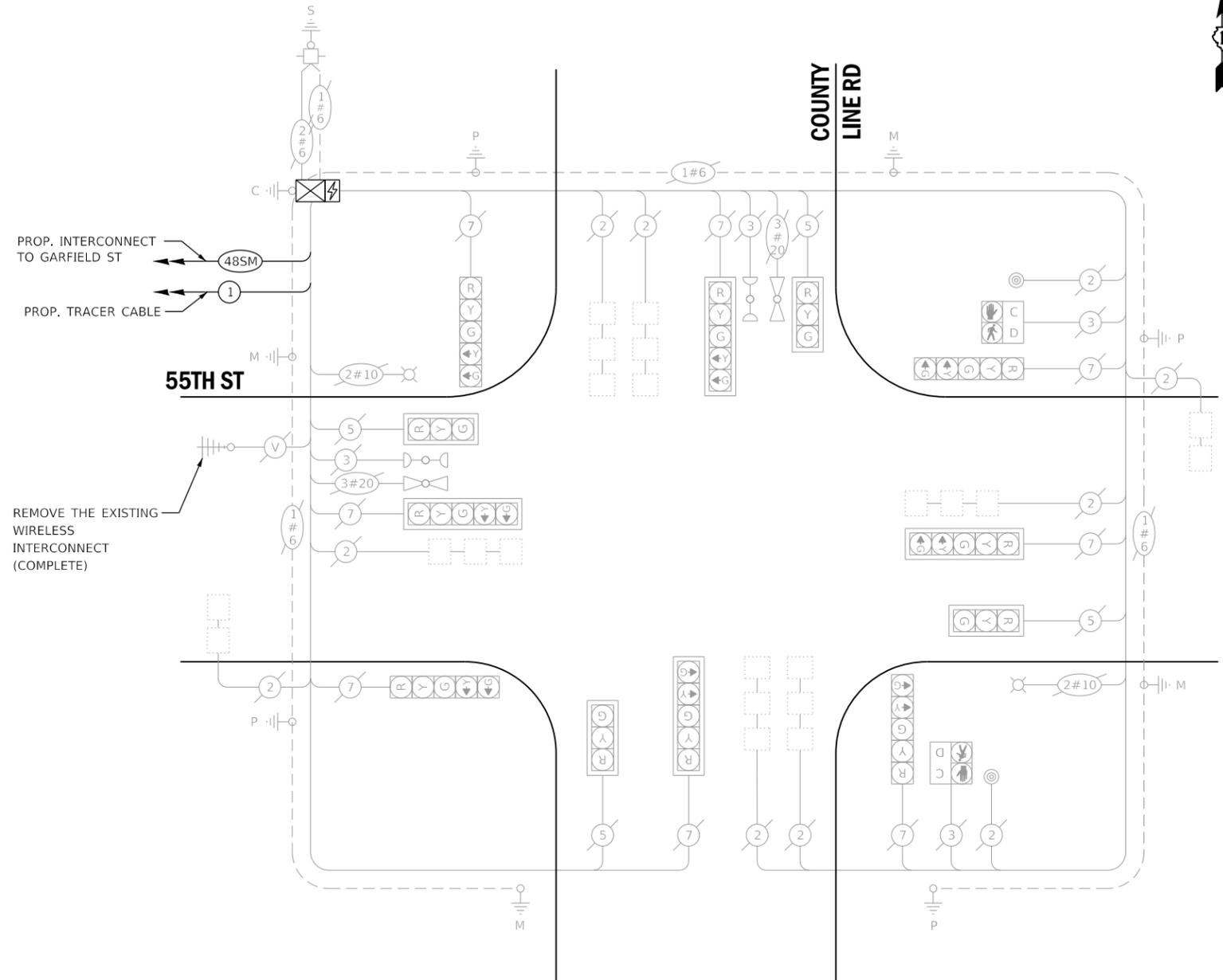
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

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

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

SCHEDULE OF QUANTITIES

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



CABLE PLAN
(NOT TO SCALE)



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
201	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

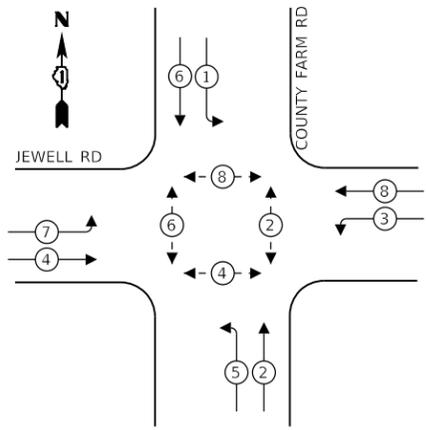
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
55TH ST AND COUNTY LINE RD**

SCALE: NTS SHEET 71 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	89
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

**IDOT
TS 3840**

EXISTING CONTROLLER SEQUENCE



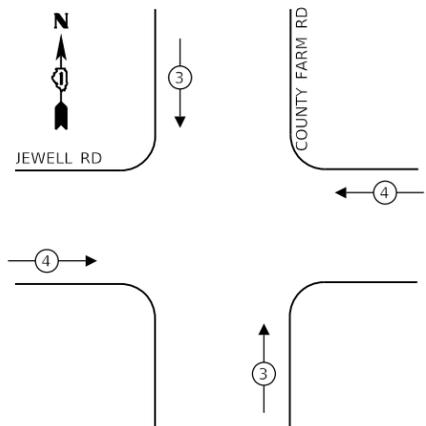
LEGEND:

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

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

**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	2	250	50	250
PTZ CAMERA	1	75	100	75
TOTAL =				769

ENERGY COSTS TO:

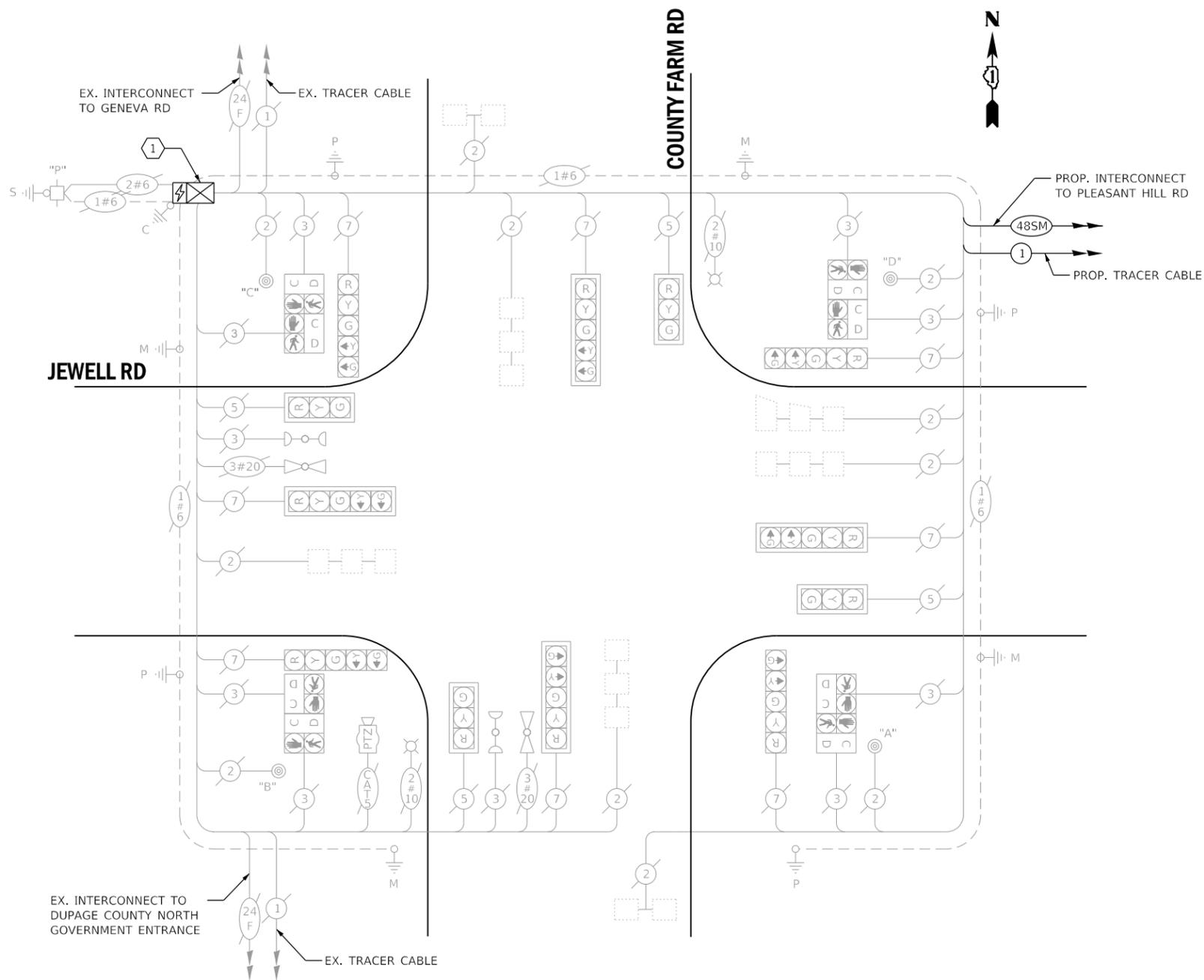
DUPAGE COUNTY D.O.T.

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	ELECTRIC METER



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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
74	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
COUNTY FARM RD AND JEWELL RD**

SCALE: NTS SHEET 72 OF 172 SHEETS STA. TO STA.

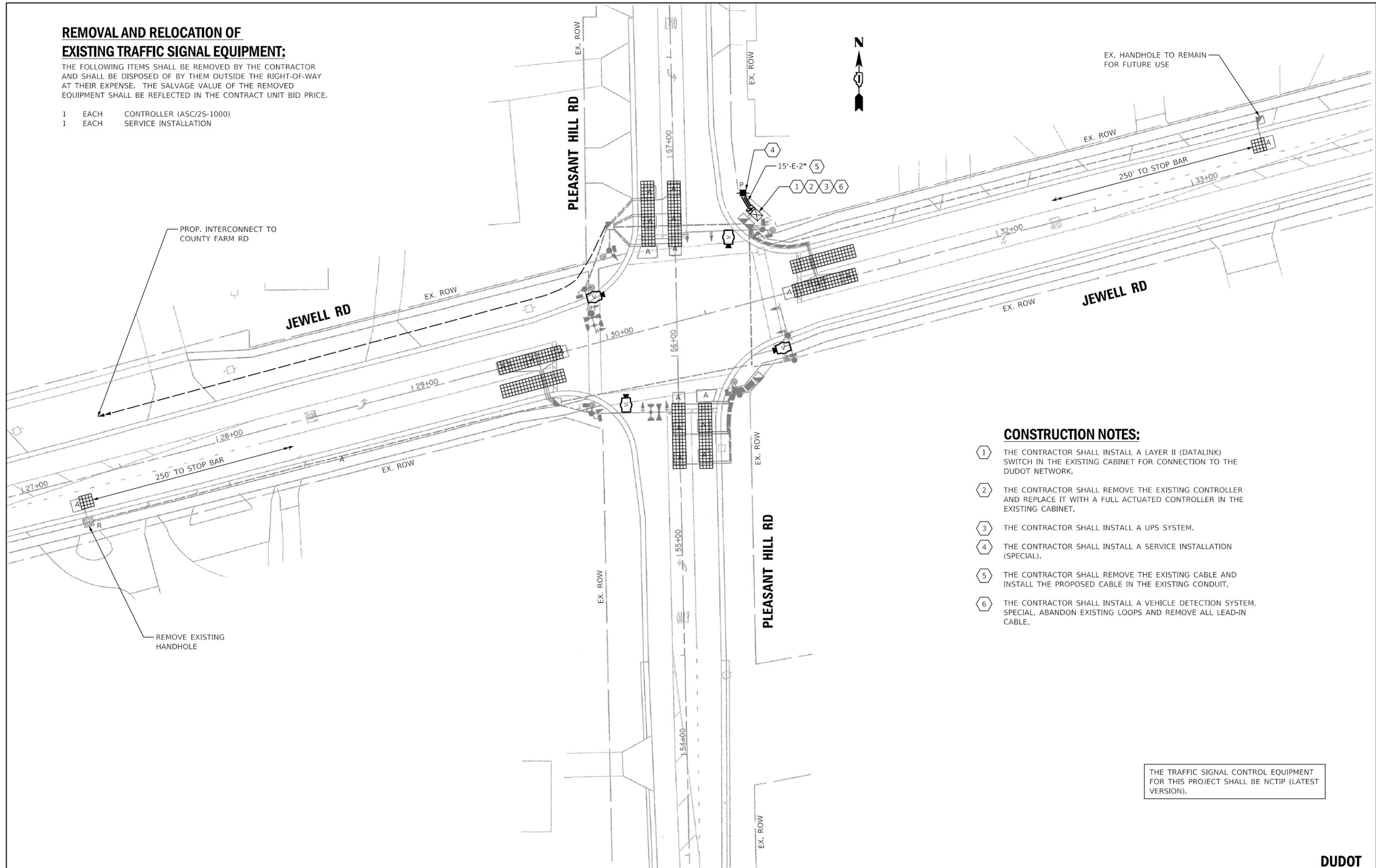
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	90
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

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/2S-1000)
- 1 EACH SERVICE INSTALLATION



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 UPS SYSTEM.
- 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, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.

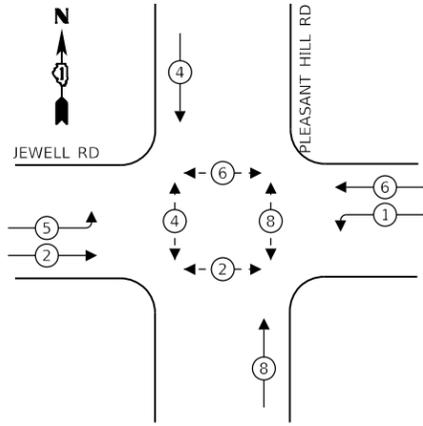
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE NCTIP (LATEST VERSION).

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN JEWELL RD AND PLEASANT HILL RD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	87	DRAWN - RG	REVISED -						VAR.	19-DCCSS-03-TL	DUPAGE	307	91
PLOT SCALE = 40.0000 ' / in.		CHECKED - ZH	REVISED -	SCALE: 1"=20'		SHEET 73	OF 172 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22			
PLOT DATE = 8/2/2021		DATE -	REVISED -							ILLINOIS FED. AID PROJECT			

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-army-ts-plan.dgn
Int87

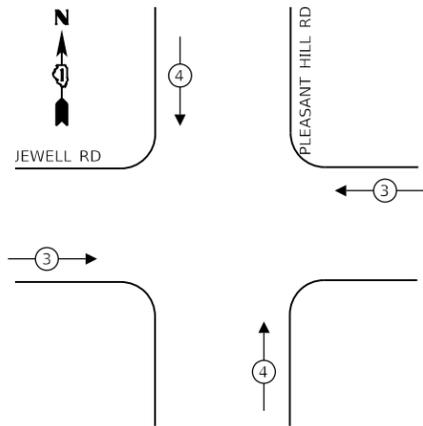
EXISTING CONTROLLER SEQUENCE



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	-
TOTAL =				836

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

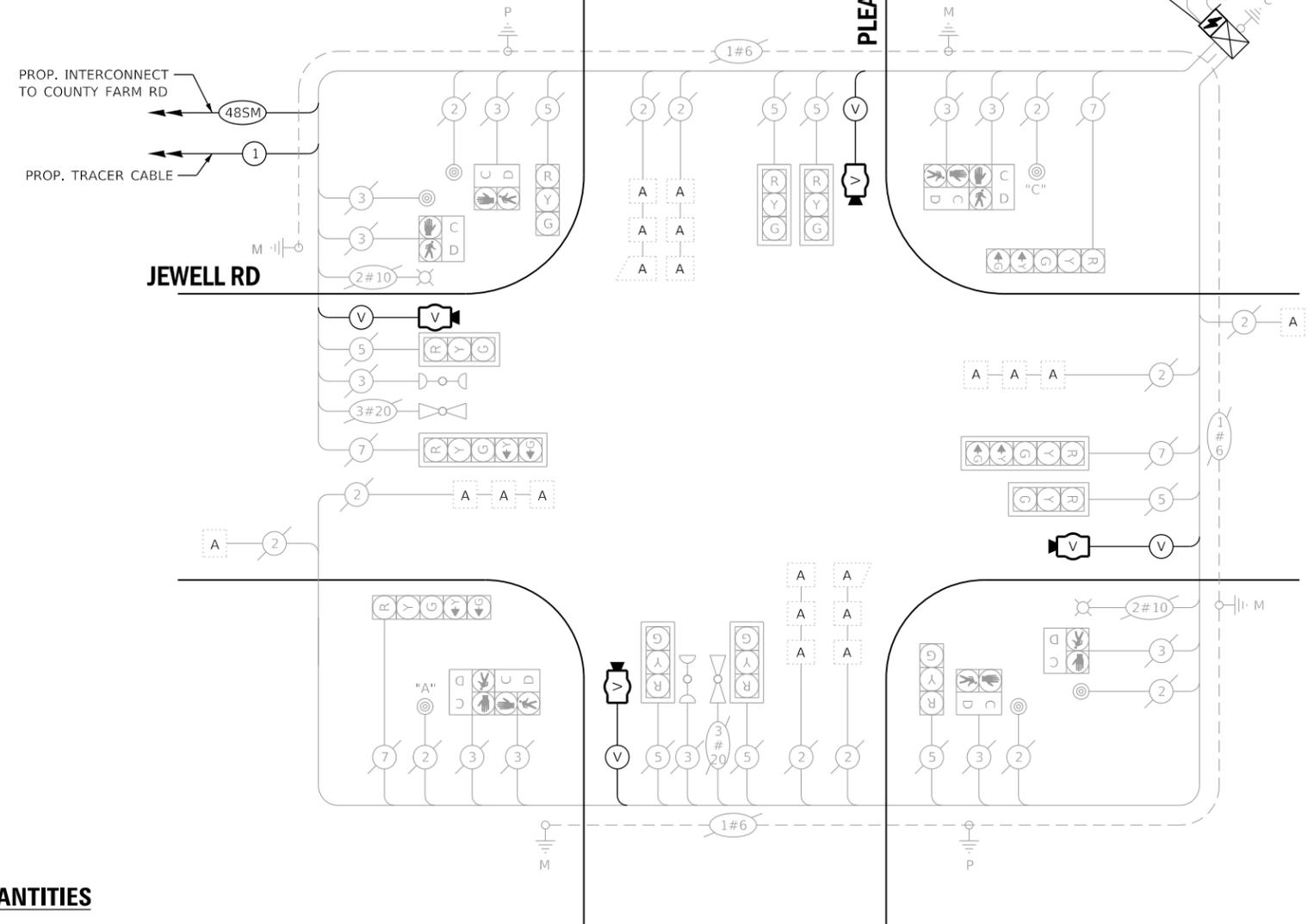
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
35	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
35	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1817	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
15	FOOT	ROD AND CLEAN EXISTING CONDUIT
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 AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
35	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
35	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1817	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
15	FOOT	ROD AND CLEAN EXISTING CONDUIT
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 AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	VEHICLE DETECTION SYSTEM, SPECIAL



**CABLE PLAN
(NOT TO SCALE)**

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

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

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	87	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

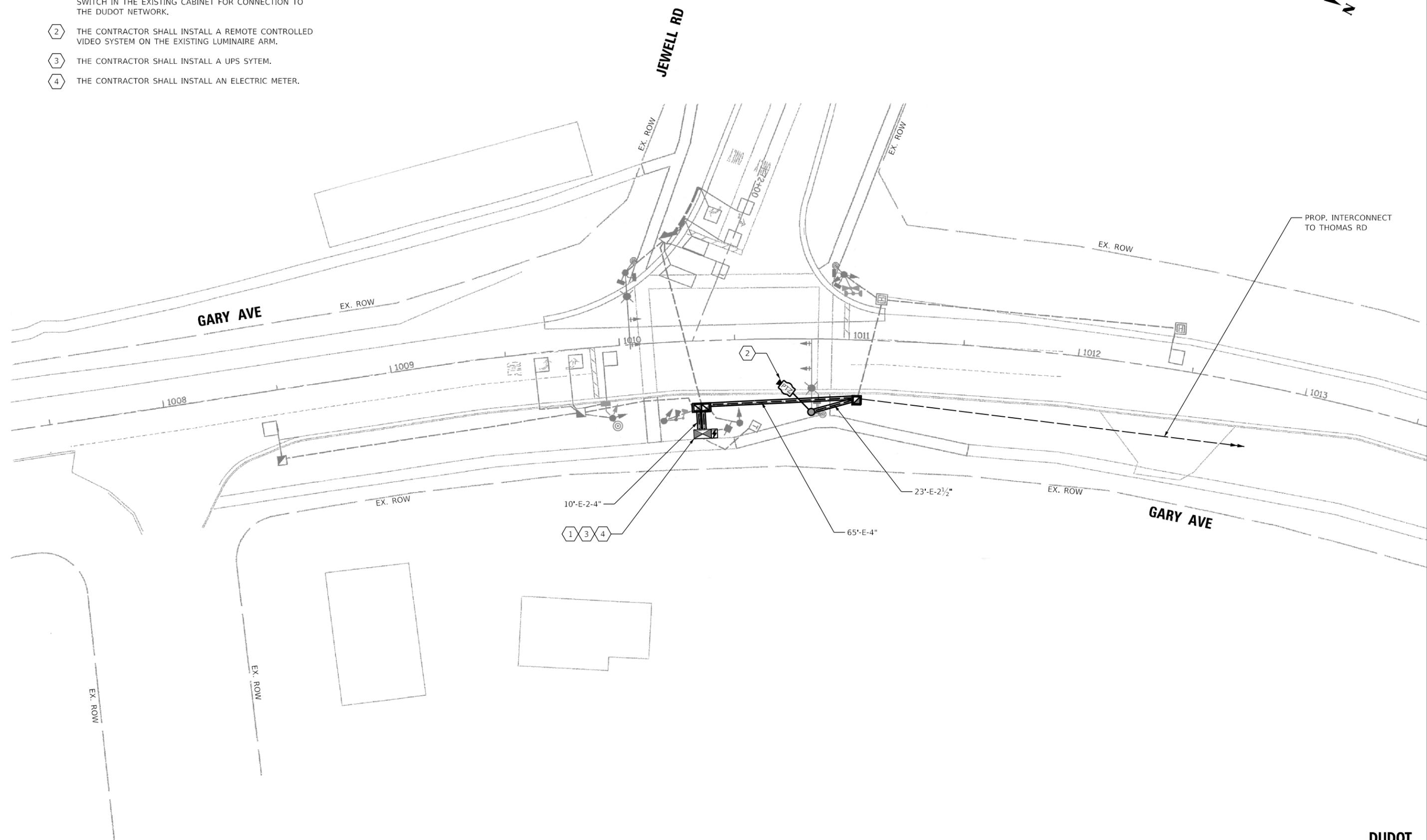
SCALE: NTS SHEET 74 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	92
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 UPS SYTEM.
- ④ THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.

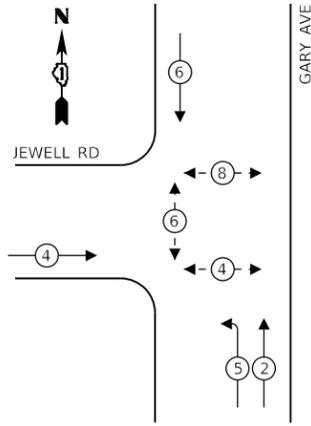


DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>TRAFFIC SIGNAL MODERNIZATION PLAN GARY AVE AND JEWELL RD</p>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	80	DRAWN - RG	REVISED -		SCALE:	SHEET 75	OF 172	SHEETS	STA.	TO STA.	VAR.	19-DCCSS-03-TL	DUPAGE
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -										CONTRACT NO. 61H22
	PLOT DATE = 8/2/2021	DATE -	REVISED -										ILLINOIS FED. AID PROJECT

FILE NAME = X:\Projects\IGLU\2020\2082\216000 DuDOT CSS Exp\3000 Phase 2 CSS Exp 3\CADD_Sheets\st-gary-ts-plan.dgn
Int80

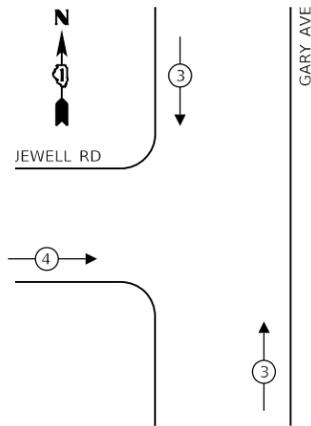
EXISTING CONTROLLER SEQUENCE



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
TOTAL =				693

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

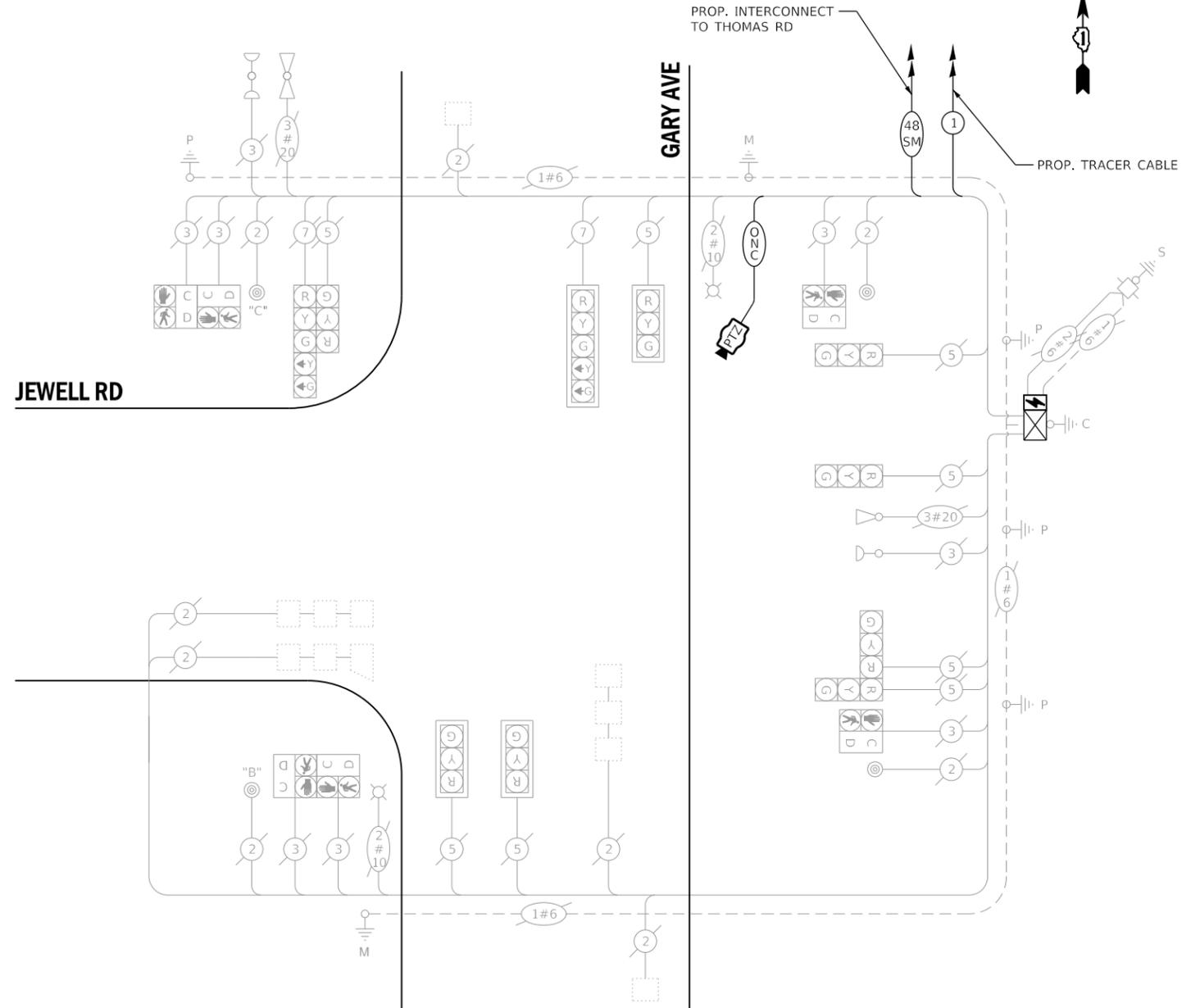
ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER: _____

TOTAL QUANTITY

TOTAL QUANTITY	UNITS
1	EACH
190	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
OUTDOOR RATED NETWORK CABLE
FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
ELECTRIC METER



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.

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
	80	DRAWN - RG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
	PLOT DATE = 8/2/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

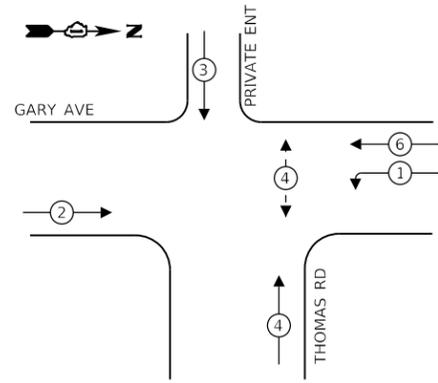
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE
PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
GARY AVE AND JEWELL RD**

SCALE: SHEET 76 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	94
			CONTRACT NO. 61H22	
ILLINOIS FED. AID PROJECT				

DUDOT

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 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.

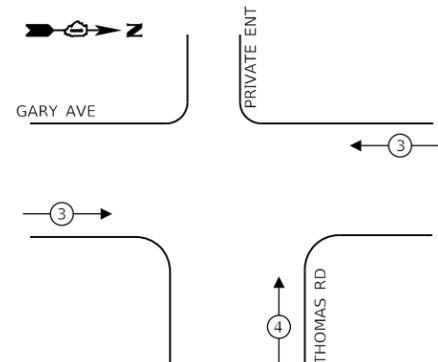
- 1 EACH CONTROLLER (ASC/2S-2100) AND CABINET (COMPLETE)
- 1 EACH SERVICE INSTALLATION

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 OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING CABINET FOR CONNECTION TO THE DUDOT NETWORK.
- 2 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 UPS SYSTEM.
- 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 (53'-E-1 1/2").

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	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	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	250	50	-
PTZ CAMERA	-	75	100	-
TOTAL =				340

ENERGY COSTS TO:

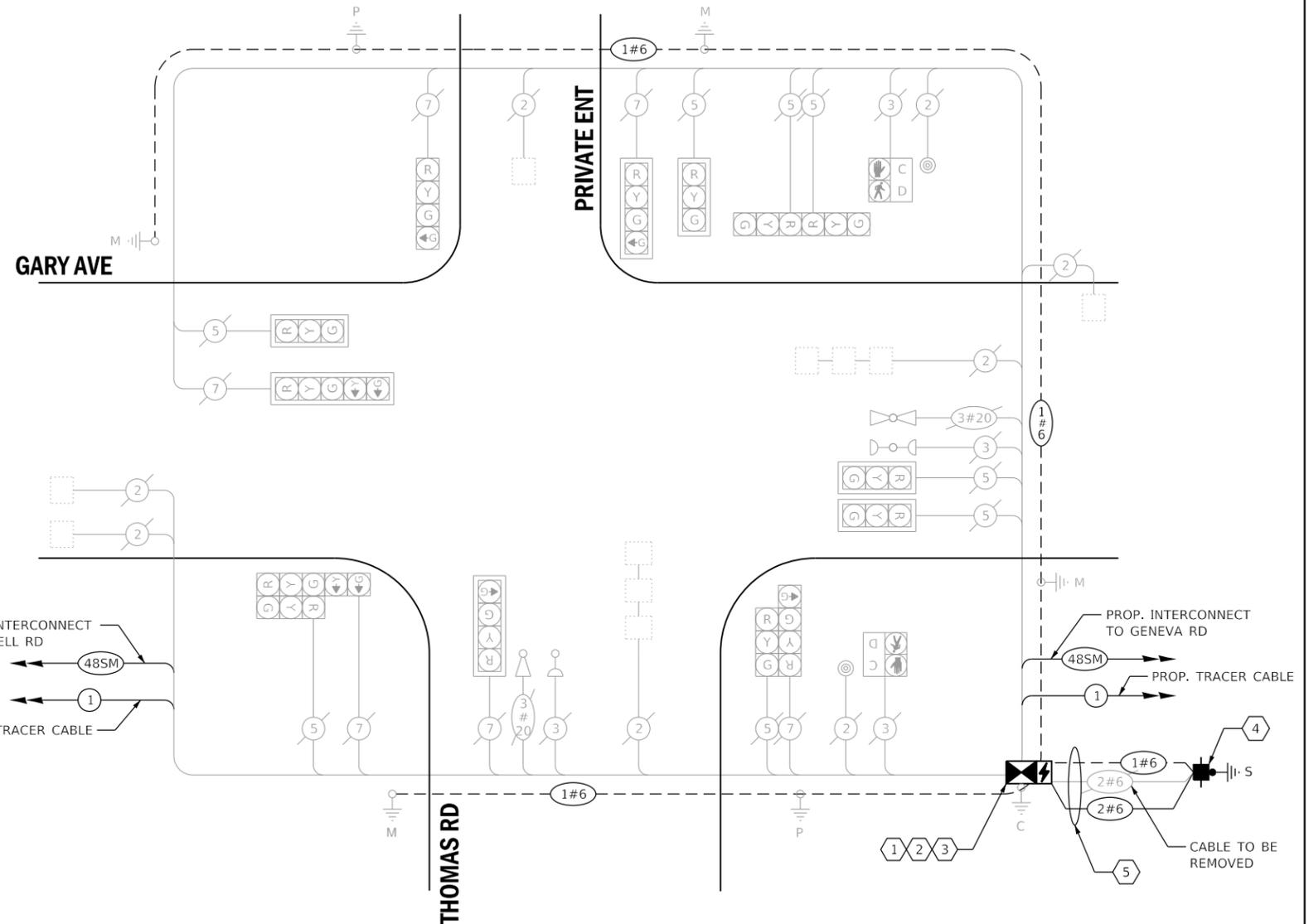
DUPAGE COUNTY D.O.T.

421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	GROUNDING EXISTING HANDHOLE FRAME AND COVER
75	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
750	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
6	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
53	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
53	FOOT	ROD AND CLEAN EXISTING CONDUIT
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 AND CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH

SCHEDULE OF QUANTITIES



CABLE PLAN
(NOT TO SCALE)

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
GARY AVE AND THOMAS RD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	95
			CONTRACT NO. 61H22	
		ILLINOIS FED. AID PROJECT		

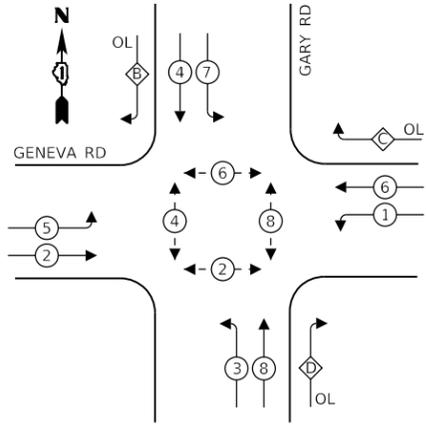
SCALE: SHEET 77 OF 172 SHEETS STA. TO STA.

DUDOT



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
81	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

EXISTING CONTROLLER SEQUENCE



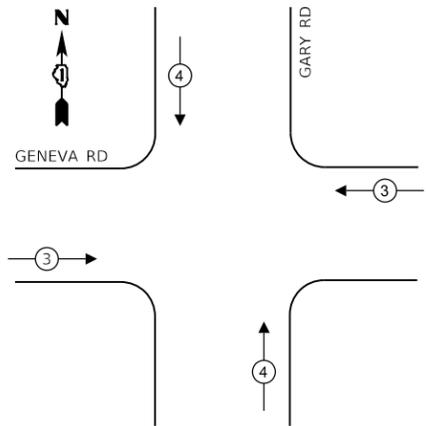
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
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)	15	11	50	83
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW	28	10	10	28
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
TOTAL =				1067

ENERGY COSTS TO:

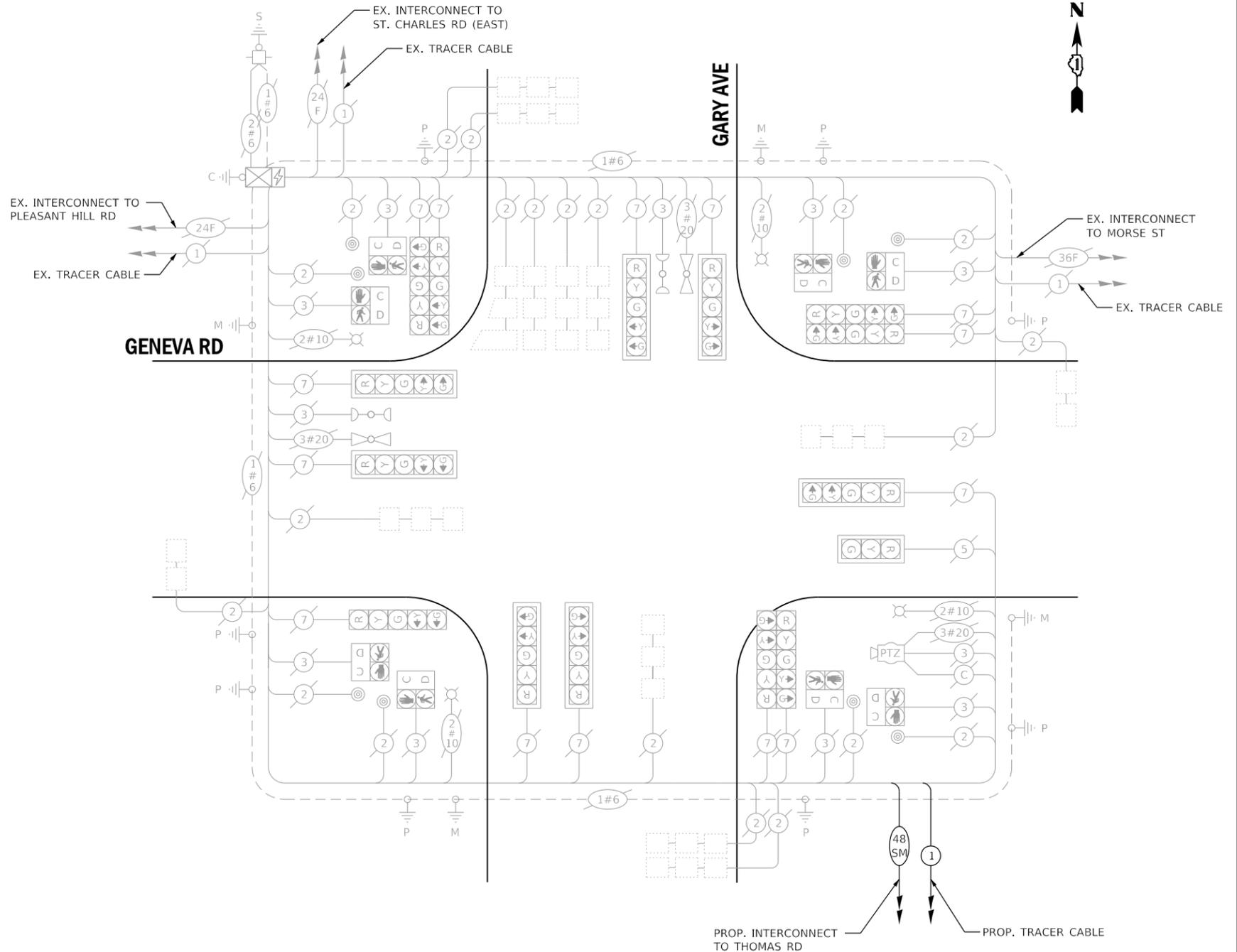
DUPAGE COUNTY D.O.T.

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

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION



CABLE PLAN
(NOT TO SCALE)

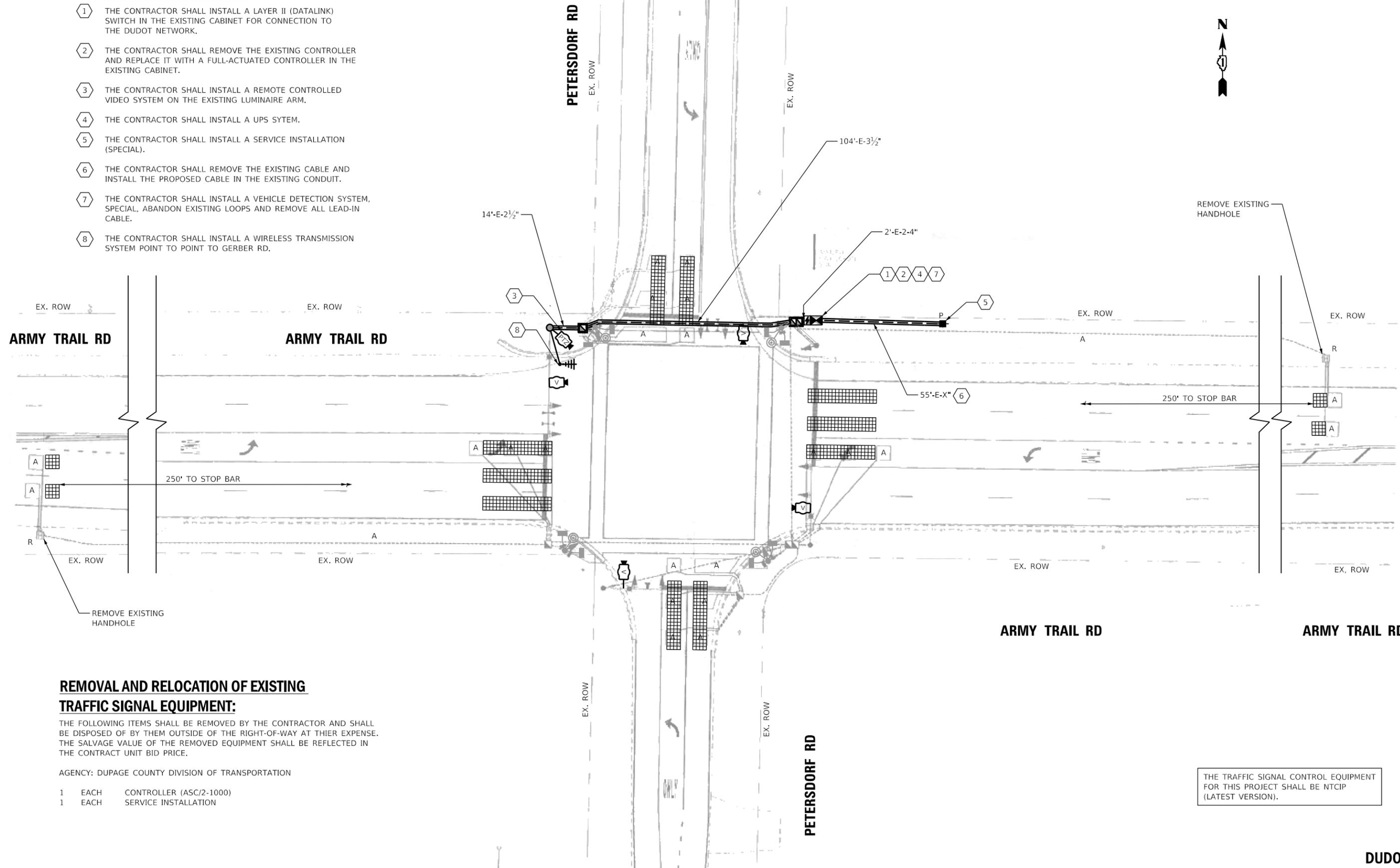
PROP. INTERCONNECT TO THOMAS RD
PROP. TRACER CABLE

CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH DUDOT'S GARY AVENUE TRAFFIC SIGNAL MODIFICATION PROJECT SECTION NO.: 21-00273-10-TL

DLZ	USER NAME = zhoerbert	DESIGNED - ZH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES GARY AVE AND GENEVA RD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - DW	REVISED -			VAR.	19-DCCSS-03-TL	DUPAGE	307	96
PLOT DATE = 8/2/2021	DATE -	REVISED -		SCALE:	SHEET 78 OF 172 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

CONSTRUCTION NOTES:

- 1 THE CONTRACTOR SHALL INSTALL A LAYER II (DATALINK) SWITCH IN THE EXISTING 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 INSTALL A UPS SYTEM.
- 5 THE CONTRACTOR SHALL INSTALL A SERVICE INSTALLATION (SPECIAL).
- 6 THE CONTRACTOR SHALL REMOVE THE EXISTING CABLE AND INSTALL THE PROPOSED CABLE IN THE EXISTING CONDUIT.
- 7 THE CONTRACTOR SHALL INSTALL A VEHICLE DETECTION SYSTEM, SPECIAL, ABANDON EXISTING LOOPS AND REMOVE ALL LEAD-IN CABLE.
- 8 THE CONTRACTOR SHALL INSTALL A WIRELESS TRANSMISSION SYSTEM POINT TO POINT TO GERBER RD.



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 OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT UNIT BID PRICE.

AGENCY: DUPAGE COUNTY DIVISION OF TRANSPORTATION

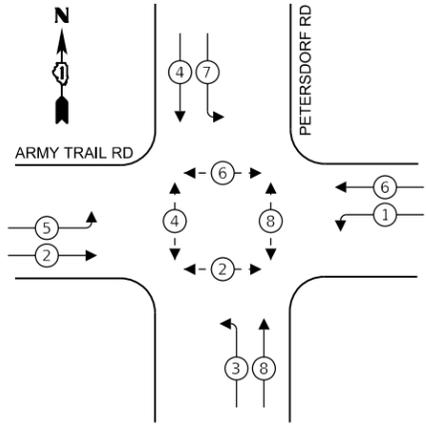
- 1 EACH CONTROLLER (ASC/2-1000)
- 1 EACH SERVICE INSTALLATION

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

DUDOT

	USER NAME = zhoerbert	DESIGNED - DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN ARMY TRAIL RD AND PETERSDORF RD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	DRAWN - RG	REVISED -					VAR.	19-DCCSS-03-TL	DUPAGE	307	97
	PLOT SCALE = 40,0000 ' / in.	CHECKED - ZH	REVISED -		SCALE: 1"=20'	SHEET 79	OF 172 SHEETS	STA.	TO STA.	CONTRACT NO. 61H22		
	PLOT DATE = 8/2/2021	DATE -	REVISED -							ILLINOIS FED. AID PROJECT		

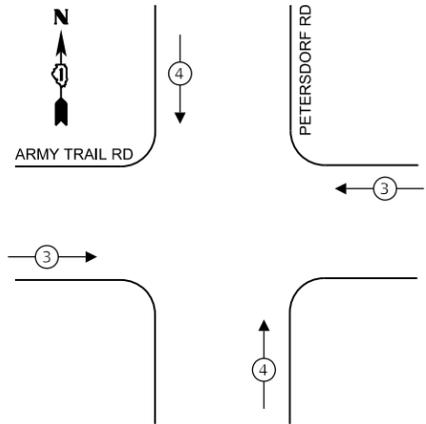
EXISTING CONTROLLER SEQUENCE



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)	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	4	250	50	500
PTZ CAMERA	1	75	100	75
TOTAL =				1169

ENERGY COSTS TO:

DUPAGE COUNTY D.O.T.

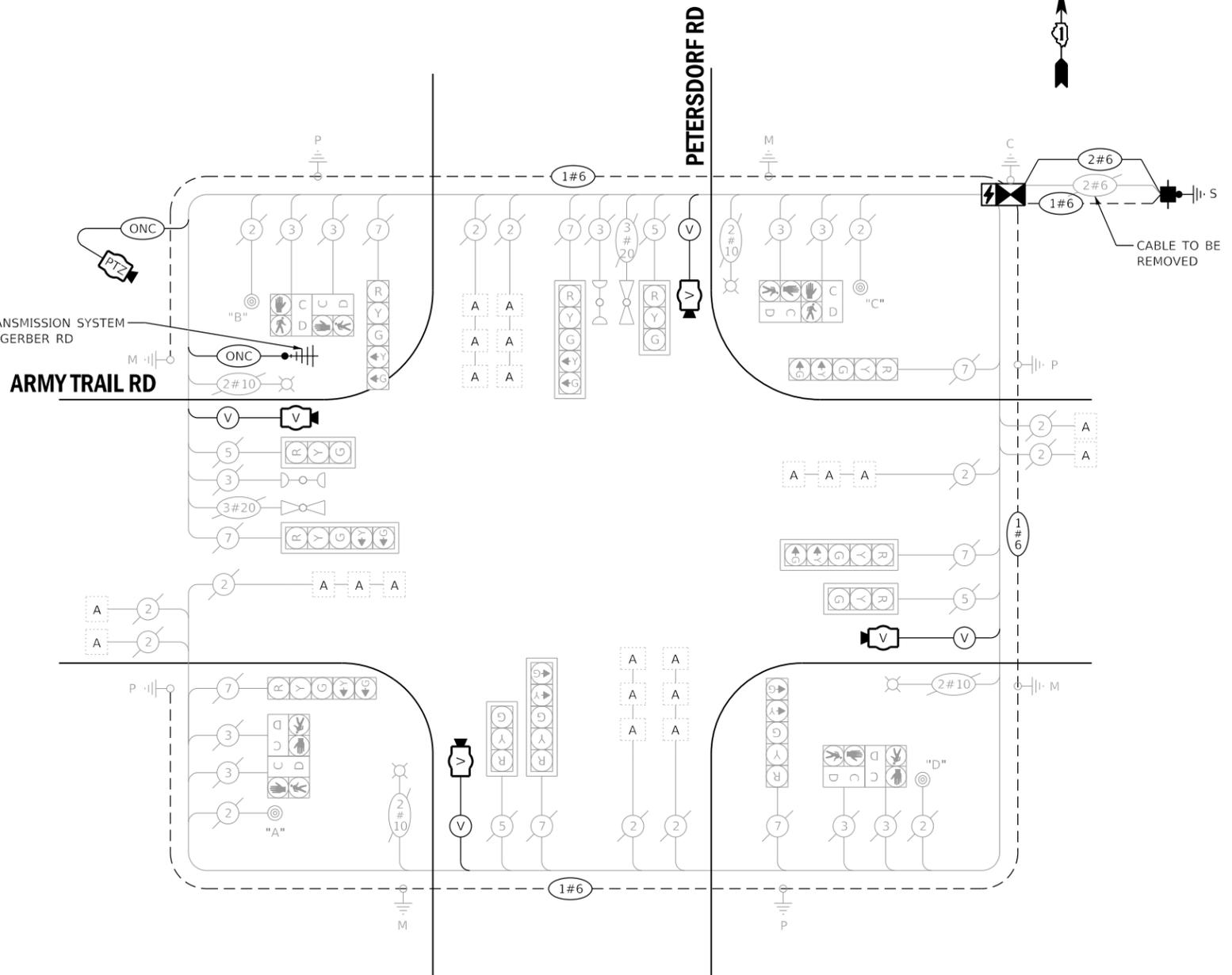
421 N. COUNTY FARM RD.
WHEATON, IL 60187

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

TOTAL QUANTITY	UNITS
1	EACH
4	EACH
75	FOOT
750	FOOT
2774	FOOT
1	EACH

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
GROUNDING EXISTING HANDHOLE FRAME AND COVER
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
REMOVE ELECTRIC CABLE FROM CONDUIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
REMOVE EXISTING HANDHOLE
ROD AND CLEAN EXISTING CONDUIT
OUTDOOR RATED NETWORK CABLE
WIRELESS TRANSMISSION SYSTEM POINT TO POINT
SERVICE INSTALLATION (SPECIAL)
FULL-ACTUATED CONTROLLER IN EXISTING CABINET
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
MODIFY EXISTING CONTROLLER CABINET, SPECIAL
REMOTE CONTROLLED VIDEO SYSTEM
LAYER II (DATALINK) SWITCH
VEHICLE DETECTION SYSTEM, SPECIAL



**CABLE PLAN
(NOT TO SCALE)**

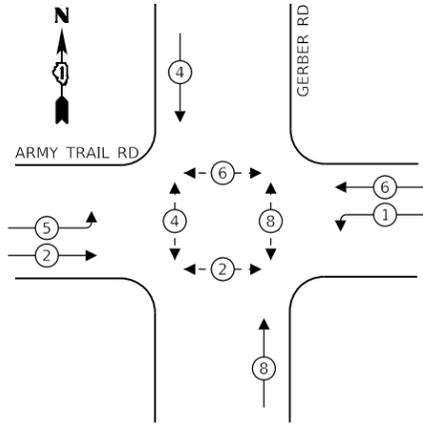
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASE 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASE 2 AND 8

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

DUDOT

	USER NAME = zhoerbert 56 PLOT SCALE = 40.0000 ' / in. PLOT DATE = 8/2/2021	DESIGNED - ZH DRAWN - RG CHECKED - DW DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES ARMY TRAIL RD AND PETERSDORF RD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCALE: NTS	SHEET 80	OF 172 SHEETS			STA.	TO STA.	19-DCCSS-03-TL	DUPAGE	307
						ILLINOIS		FED. AID PROJECT		

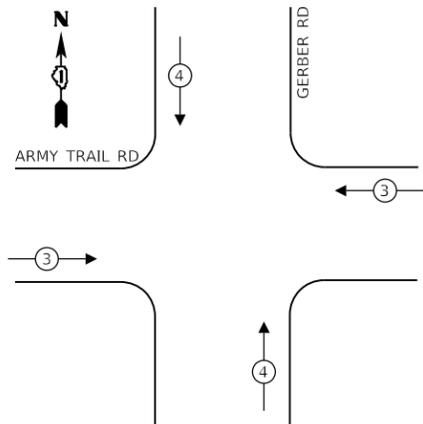
EXISTING CONTROLLER SEQUENCE



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 EXISTING 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 UPS SYSTEM.
- 4 THE CONTRACTOR SHALL INSTALL AN ELECTRIC METER.
- 5 THE CONTRACTOR SHALL INSTALL A WIRELESS TRANSMISSION SYSTEM POINT TO POINT TO PETERSDORF RD (5'-E-2-4" CONTROLLER TO DOUBLE HANDHOLE, 97'-E-4" DOUBLE HANDHOLE TO NW HANDHOLE, AND 7'-E-2 1/2" NW HANDHOLE TO NW MAST ARM)

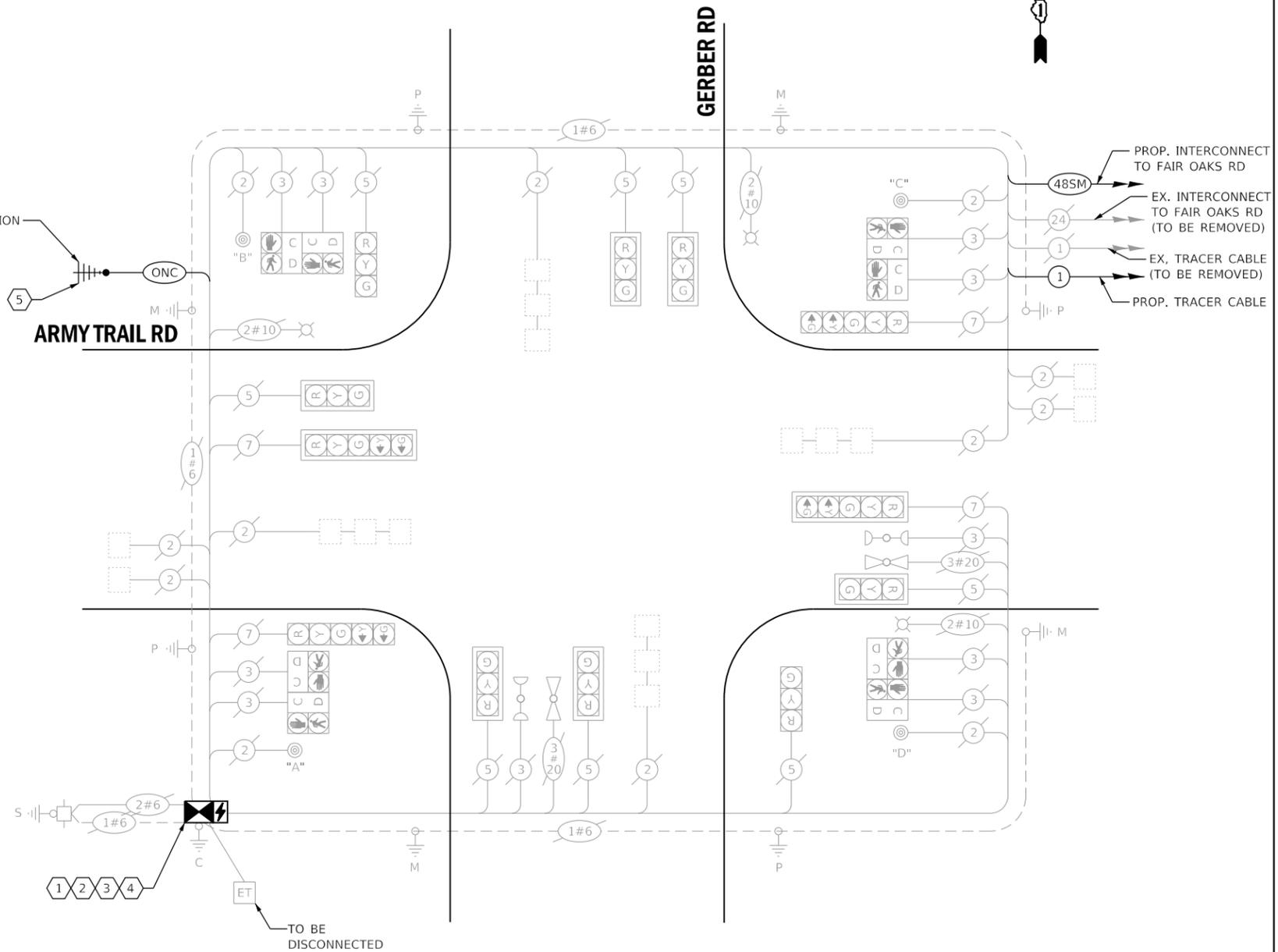
REMOVAL AND RELOCATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT:

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)

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
205	FOOT	OUTDOOR RATED NETWORK CABLE
1	EACH	WIRELESS TRANSMISSION SYSTEM POINT TO POINT
1	EACH	FULL-ACTUATED CONTROLLER IN EXISTING CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



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

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	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	3	250	50	375
PTZ CAMERA	-	75	100	-
TOTAL =				811

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 = zhoerbert	DESIGNED - ZH	REVISED -
53	DRAWN - RG	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

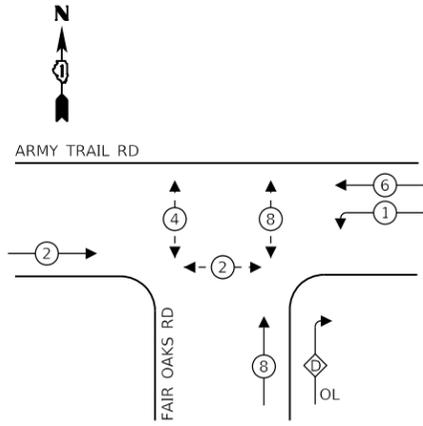
**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
 ARMY TRAIL RD AND GERBER RD**

SCALE: NTS SHEET 81 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	99
				CONTRACT NO. 61H22
ILLINOIS FED. AID PROJECT				

DUDOT

EXISTING CONTROLLER SEQUENCE



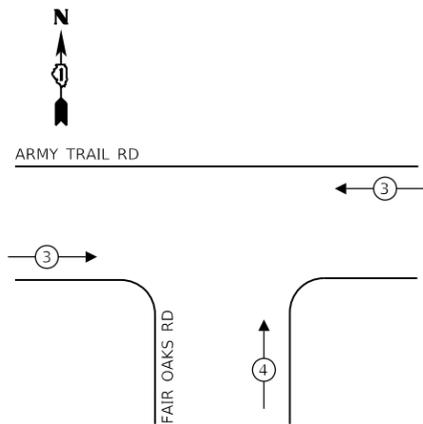
LEGEND:

- ⊙ — 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)	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

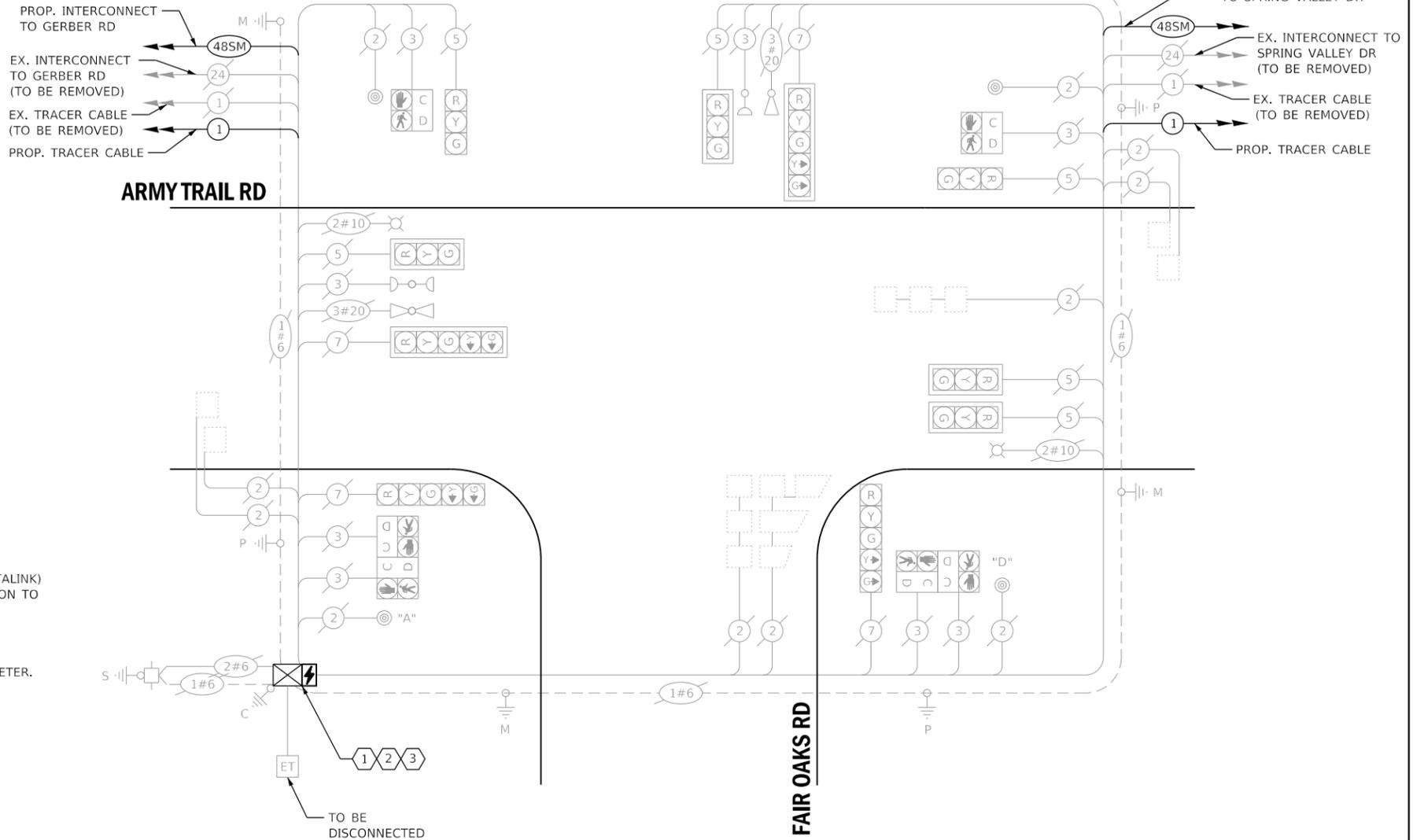
ENERGY SUPPLY: CONTACT: MR. JOE STACHO
PHONE: (630)-424-5704
COMPANY: COMED LOMBARD
ACCOUNT NUMBER:

CONSTRUCTION NOTES:

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

SCHEDULE OF QUANTITIES

TOTAL QUANTITY	UNITS	ITEM DESCRIPTION
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL
1	EACH	MODIFY EXISTING CONTROLLER CABINET, SPECIAL
1	EACH	LAYER II (DATALINK) SWITCH
1	EACH	ELECTRIC METER



CABLE PLAN
(NOT TO SCALE)

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



USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
52	DRAWN - RG	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - DW	REVISED -
PLOT DATE = 8/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
ARMY TRAIL RD AND FAIR OAKS RD

SCALE: NTS SHEET 82 OF 172 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	19-DCCSS-03-TL	DUPAGE	307	100
				CONTRACT NO. 61H22

DUDOT