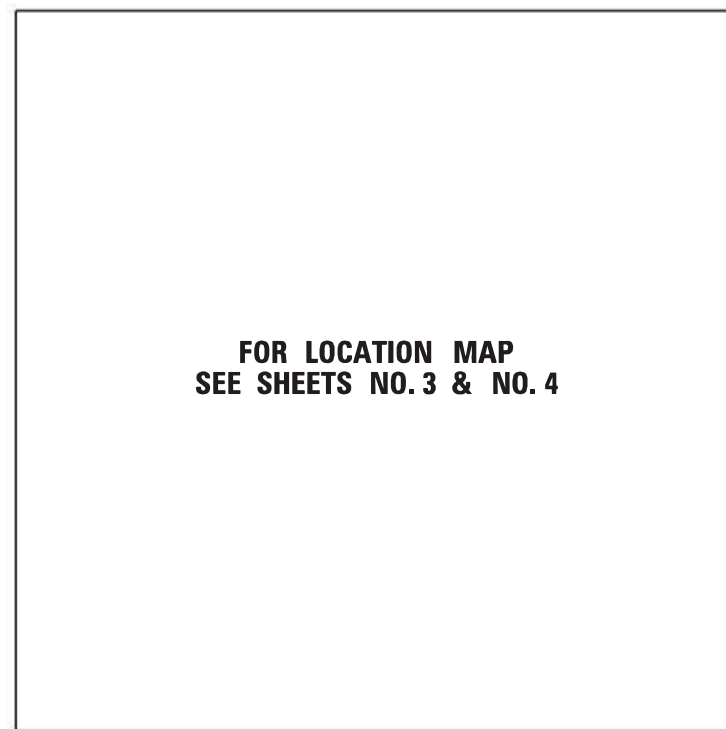


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2023 TRAFFIC 02	COOK	306	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62T54		

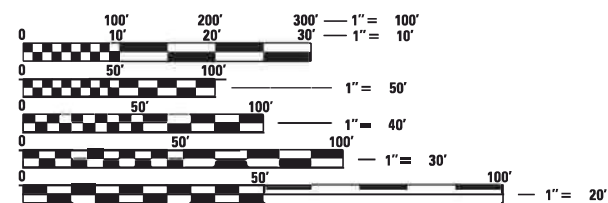
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS
CENTRAL TRAFFIC MANAGEMENT SYSTEM
PHASE 2
NORTHWEST COOK COUNTY AREA
PROJECT NO: CMAQ-MSXC(263)
SECTION: 2023 TRAFFIC 02
ROUTES: VARIOUS
COOK COUNTY
C-91-246-22

FOR INDEX OF SHEETS, SEE SHEET NO. 2



FOR LOCATION MAP
SEE SHEETS NO. 3 & NO. 4

VARIOUS TOWNSHIPS



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

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

PROJECT ENGINEER: KAMIL A. KOBYLKA, (847) 705-4734
PROJECT MANAGER: DARYLE DREW, (847) 705-4424
CONTRACT NO. 62T54

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 25 2022
John R. ...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 9, 2022
S. A. ...
ENGINEER OF DESIGN AND ENVIRONMENT
December 9, 2022
Stephen M. ...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHT. NO.	DESCRIPTION
1	COVER SHEET
2-3	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
4-5	LOCATION MAPS
6-9	SUMMARY OF QUANTITIES
10-16	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
17	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS (TS-02)

SHT. NO.	LOCATION NO.	TS NO.	INTERSECTION NAME
18-20	1	10560	ROSELLE RD AT I-90 WB RAMP
21-24	2	10293	ROSELLE RD AT CENTRAL RD
25-26	3	2990	ROSELLE RD AT IL RTE 62 (ALGONQUIN RD)
27-29	4	3230	MEACHAM RD AT IL RTE 72 (HIGGINS RD)
30-31	5	22	MEACHAM RD AT WOODFIELD RD
32-33	6	10	MEACHAM RD AT AMERICAN LN
34-36	7	2810	MEACHAM RD AT IL RTE 58 (GOLF RD)
37-38	8	14	MEACHAM RD AT REMINGTON RD
39-40	9	12	MEACHAM RD AT TOWER RD / MCCONNOR PKWY
41-43	10	11	MEACHAM RD AT I-90 WB EXIT RAMP
44-45	11	15	MEACHAM RD AT ZURICH WAY / THOREAU DR
46-47	12	13	MEACHAM RD AT DRUMMER DR
48-51	13	14780	MEACHAM RD AT IL RTE 62 (ALGONQUIN RD)
52-53	83	3	SPRINGINGSGUTH RD AT WESTBOUND FRONTAGE RD
54-55	84	6	SPRINGINGSGUTH RD AT EASTBOUND FRONTAGE RD
56-57	85	2	RODENBURG RD AT WESTBOUND FRONTAGE RD
58-59	86	5	RODENBURG RD AT EASTBOUND FRONTAGE RD
60-61	87	4	WRIGHT BLVD AT WESTBOUND FRONTAGE RD
62-63	88	7	WRIGHT BLVD AT EASTBOUND FRONTAGE RD
64-67	15	13765	BARRINGTON RD AT US RTE 20 (LAKE ST)
68-70	16	13775	BARRINGTON RD AT WALNUT AVE
71-73	17	13745	BARRINGTON RD AT IL RTE 19 (IRVING PARK RD)
74-75	18	7860	BARRINGTON RD AT TOWER DR
76-77	19	21285	BARRINGTON RD AT RAMBLEWOOD DR
78-79	20	21280	BARRINGTON RD AT BUTTITTA DR / LAURIE LN
80-81	21	4165	BARRINGTON RD AT SAUBORN PKWY / WEATHERSFIELD WAY
82-84	22	4180	BARRINGTON RD AT SCHUMBERG DR
85-86	23	4182	BARRINGTON RD AT HOLMES WAY
87-88	24	21130	BARRINGTON RD AT OLD CHURCH RD
89-91	25	4170	BARRINGTON RD AT BODE RD
92-93	26	2725	BARRINGTON RD AT IL RTE 58 (GOLF RD)
94-95	27	20400	BARRINGTON RD AT ST ALEXIUS MEDICAL CTR
96-97	28	3290	BARRINGTON RD AT IL RTE 72 (HIGGINS RD)
98-99	29	20402	IL RTE 58 (GOLF RD) AT HOFFMAN EST SC
100-101	30	21370	IL RTE 58 (GOLF RD) AT KNOLLWOOD DR
102-103	30.5	2870	IL RTE 58 (GOLF RD) AT MOON LAKE BLVD/WALNUT LN
104-105	31	11270	US RTE 20 (LAKE ST) AT BARTLETT RD
106-107	32	1325	US RTE 20 (LAKE ST) AT OAK AVE
108-109	33	1330	US RTE 20 (LAKE ST) AT PARK AVE
110-112	34	6077	US RTE 20 (LAKE ST) AT NORTH AVE
113-114	35	20575	US RTE 20 (LAKE ST) AT WALNUT AVE
115-116	36	13762	US RTE 20 (LAKE ST) AT CENTER AVE
117-118	37	13760	US RTE 20 (LAKE ST) AT CHURCH ST
119-121	38	7695	US RTE 20 (LAKE ST) AT ONTARIOVILLE RD / BEAR FLAG DR
122-123	39	21910	US RTE 20 (LAKE ST) AT IL 390 RAMP
124-126	40	13770	US RTE 20 (LAKE ST) AT GREENBROOK BLVD
127-128	41	7870	US RTE 20 (LAKE ST) AT BARTELS RD / ARLINGTON DR
129-131	42	6030	US RTE 20 (LAKE ST) AT GARY AVE
132-133	43	7875	US RTE 20 (LAKE ST) AT BRYN MAWR AVE
134-135	44	22025	US RTE 20 (LAKE ST) AT RODENBURG RD
136-137	45	6065	US RTE 20 (LAKE ST) AT SPRINGFIELD DR
138-139	46	22240	IL RTE 62 (ALGONQUIN RD) AT PENNY RD
140-142	47	2940	IL RTE 62 (ALGONQUIN RD) AT BARRINGTON RD
143-144	48	22230	IL RTE 62 (ALGONQUIN RD) AT WILLOWMERE DR
145-146	49	2960	IL RTE 62 (ALGONQUIN RD) AT HUNTINGTON BLVD
147-148	50	7655	IL RTE 62 (ALGONQUIN RD) AT LEXINGTON DR
149-150	51	2957	IL RTE 62 (ALGONQUIN RD) AT WINSTON DR
151-152	52	2955	IL RTE 62 (ALGONQUIN RD) AT ELA RD
153-154	53	2970	IL RTE 62 (ALGONQUIN RD) AT HARPER COLLEGE DR
155-156	54	7885	IL RTE 62 (ALGONQUIN RD) AT QUENTIN RD
157	55	14750	IL RTE 62 (ALGONQUIN RD) AT HAMMOND DR
158-159	56	14760	IL RTE 62 (ALGONQUIN RD) AT PLUM GROVE RD / PROGRESS PKWY
160-161	57	14755	IL RTE 62 (ALGONQUIN RD) AT PARKSIDE DR
162-164	58	14765	IL RTE 62 (ALGONQUIN RD) AT THOREAU DR / THORNTREE DR
165-166	59	2930	IL RTE 62 (ALGONQUIN RD) AT ARBOR DR / FRONTAGE RD
167-168	60	2670	IL RTE 62 (ALGONQUIN RD) AT IL RTE 53 (ROHLWING RD) WEST RAMP
169-170	61	2665	IL RTE 62 (ALGONQUIN RD) AT IL RTE 53 (ROHLWING RD) EAST RAMP
171-172	62	2980	IL RTE 62 (ALGONQUIN RD) AT MAGNOLIA DR
173-174	63	21595	IL RTE 62 (ALGONQUIN RD) AT NEWPORT DR
175-176	64	14741	IL RTE 62 (ALGONQUIN RD) AT ESSEX WAY / CARRIAGE WAY DR
177-178	65	14744	IL RTE 62 (ALGONQUIN RD) AT WEBER DR / OLD WILKE RD
179-180	66	2985	IL RTE 62 (ALGONQUIN RD) AT NEW WILKE RD
181-182	67	2708	IL RTE 62 (ALGONQUIN RD) AT MARKET PL / WALMART ENT
183-184	68	1935	IL RTE 19 (IRVING PARK RD) AT BARTLETT RD
185-186	69	8940	IL RTE 19 (IRVING PARK RD) AT PARK BLVD / PARK AVE
187-188	70	1980	IL RTE 19 (IRVING PARK RD) AT LINCOLN AVE / SUNNYDALE BLVD
189-190	71	1985	IL RTE 19 (IRVING PARK RD) AT EAST AVE
191-192	72	13756	IL RTE 19 (IRVING PARK RD) AT WESTVIEW PLAZA
193-194	73	13750	IL RTE 19 (IRVING PARK RD) AT MENARDS ENTRANCE

INDEX OF SHEETS CONTINUED

SHT. NO.	LOCATION NO.	TS NO.	INTERSECTION NAME
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197-198	75	21450	IL RTE 19 (IRVING PARK RD) AT OLDE SALEM RD
199-200	76	1975	IL RTE 19 (IRVING PARK RD) AT WISE RD / GEORGETOWN AVE
201-202	77	1976	IL RTE 19 (IRVING PARK RD) AT MERCURY DR
203-204	78	1965	IL RTE 19 (IRVING PARK RD) AT SPRING DR
205-206	79	21710	IL RTE 19 (IRVING PARK RD) AT IL 390 FRONTAGE RD WEST
207-208	80	21709	IL RTE 19 (IRVING PARK RD) AT IL 390 FRONTAGE RD EAST
209-210	81	7635	IL RTE 19 (IRVING PARK RD) AT RODENBURG RD
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216-228			INTERCONNECT PLAN FOR BARRINGTON RD SOUTH TO NORTH
229-239			INTERCONNECT PLAN FOR US-20 WEST TO EAST
240-253			INTERCONNECT PLAN FOR IL-19 WEST TO EAST
254-258			INTERCONNECT PLAN FOR ROSELLE RD SOUTH TO NORTH
259-276			INTERCONNECT PLAN FOR IL-62 WEST TO EAST
277-282			INTERCONNECT PLAN FOR MEACHAM RD SOUTH TO NORTH
283-288			FIBER SPLICE DIAGRAM
289-300			CABINET DETAIL
301			COMMUNICATIONS VAULT, COMPOSITE CONCRETE DETAIL
302			IDOT DISTRICT 1 HQ BUILDING DETAIL
303			D1HQ FIBER OPTIC
304			CAMERA MOUNTING DETAIL
305			TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
306			TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) & ARTERIAL ROAD INFORMATION SIGN (TC-14 & TC-22)

IDOT HIGHWAY STANDARDS

STD. NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING

RLR NOTES

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTOR SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION:

TS 3290 IL RTE 72 (HIGGINS RD) AT BARRINGTON ROAD
 TS 2725 IL RTE 58 (GOLF RD) AT BARRINGTON ROAD

VILLAGE OF HOFFMAN ESTATES AMERICAN TRAFFIC SOLUTIONS
 1900 HASSELL ROAD 7681 EAST GRAY ROAD
 HOFFMAN ESTATES, IL 60195 SCOTTSDALE, AZ 85260
 (847) 882-9100

TS 6030 US RTE 20 (LAKE ST) AT GARY AVENUE

VILLAGE OF ROSELLE RED SPEED, LLC
 31 S PROSPECT ST 400 EISENHOWER, LANE
 ROSELLE, IL 60172 LOMBARD, IL 60148
 (630) 980-2000

TS 2665 IL RTE 62 (ALGONQUIN RD) AT IL RTE 53 (ROHLWING RD) EAST RAMP
 TS 2985 IL RTE 62 (ALGONQUIN RD) AT NEW WILKE RD

CITY OF ROLLING MEADOWS RED SPEED, LLC
 3600 KIRCHOFF ROAD 400 EISENHOWER, LANE
 ROLLING MEADOWS, IL 6008 LOMBARD, IL 60148
 (847) 394-8500

RLR NOTES CONTINUED

TS 13765 US RTE 20 (LAKE ST) AT BARRINGTON RD

VILLAGE OF HANOVER PARK RED SPEED, LLC
 2121 W LAKE STREET 400 EISENHOWER, LANE
 HANOVER PARK, IL 60133 LOMBARD, IL 60148
 (630) 823-5600

GENERAL NOTES

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

ALL EXISTING R.O.W. SHOWN IS APPROXIMATE AND MAY NEED TO BE VERIFIED IN THE FIELD. ALL PROPOSED WORK SHALL TAKE PLACE WITHIN EXISTING ROW WITHIN EXISTING FACILITIES INCLUDING HANDHOLES, CONDUITS, OR TRAFFIC SIGNAL CABINETS.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

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

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

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

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGED TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS.

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

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

THE CONTRACTOR SHALL COORDINATE WITH IDOT, CCDOT, AND EQUIPMENT VENDORS FOR THE BEST 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 DRAWINGS REQUIREMENTS ARE IDENTIFIED IN SECTION 801.16 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

THE QUANTITY FOR THE ROD AND CLEAN EXISTING CONDUIT IS FOR USE WITH EXISTING CONDUITS WHICH HAVE ALL EXISTING CABLES REMOVED. THE QUANTITY PROVIDED IS A NOMINAL QUANTITY AND SHALL BE USED AS NEEDED OR AS DETERMINED BY THE ENGINEER BASED ON FIELD CONDITIONS.

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, MAIN ROUTE, OR ZONE.

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD_Sheets\002-Standards_List.dwg



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	2
			CONTRACT NO. 62T54	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

GENERAL NOTES CONTINUED

* THESE PLANS USE EXISTING RECORD DRAWINGS AS A BACKGROUND FOR THE PROPOSED PLAN. CONTRACTOR SHALL USE CARE IN CORRECTLY DISTINGUISHING PROPOSED WORK. CERTAIN RECORD DRAWINGS SHEETS HAVE BEEN INCLUDED FOR INFORMATION ONLY FOR BETTER UNDERSTANDING OF THE ENTIRE SYSTEM WHICH UTILIZES BOTH EXISTING AND PROPOSED FIBER INFRASTRUCTURE.

THE WORK IN THIS CONTRACT IS LIMITED TO THE INSTALLATION OF THE HANDHOLES, CONDUITS, TRACER CABLE, PTZ CAMERAS, SWITCHES, CONTROLLERS, AND FIBER OPTIC CABLE AS WELL AS ANY OTHER COMPONENTS AS SPECIFIED IN THE SCHEDULE OF QUANTITIES. THERE ARE NO PHASE CHANGES. PLANS USE EXISTING RECORD DRAWINGS WHICH SHOW PROPOSED EQUIPMENT FROM PREVIOUS CONTRACTS. WORK SHALL ONLY INCLUDE WHAT IS SPECIFIED IN THE SCHEDULE OF QUANTITIES. PHASING FOR THE NEW CONTROLLERS SHALL BE REPLICATED FROM EXISTING CONTROLLERS.

FOR WORK AT THE VILLAGE OF SCHAUMBURG TRAFFIC SIGNALS CONTRACTOR TO COORDINATE WORK AND ARRANGE FOR ANY MAINTENANCE TRANSFERS WITH VILLAGE MAINTAINER - H&H ELECTRIC AT (708) 453-0202. THE CONTRACTOR WILL NEED TO OBTAIN A ROW ENTRY PERMIT AS WELL AS TRANSFER MAINTENANCE OF THE SIGNALS THAT ARE SHOWN BELOW:

- WOODFIELD RD AT MEACHAM RD
- AMERICAN LN AT MEACHAM RD
- I-90 RAMP AT MEACHAM RD
- REMINGTON RD AT MEACHAM RD
- TOWER RD/MCCONNOR PKWY AT MEACHAM RD
- ZURICH WAY/THOREAU DR AT MEACHAM RD
- PROGRESS PKWY/DRUMMER DR AT MEACHAM RD
- SPRINGSGUTH RD AT WESTBOUND FRONTAGE RD
- SPRINGSGUTH RD AT EASTBOUND FRONTAGE RD
- RODENBURG RD AT WESTBOUND FRONTAGE RD
- RODENBURG RD AT EASTBOUND FRONTAGE RD
- WRIGHT BLVD AT WESTBOUND FRONTAGE RD
- WRIGHT BLVD AT EASTBOUND FRONTAGE RD

CONFLICTS AMONG OTHER PROJECTS

BELOW NOTES ARE INTENDED TO IDENTIFY PROJECTS WITHIN SAME LOCATION AS THIS CONTRACT. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS AND SHALL BE REFLECTED IN THE UNIT PRICES. WORK SHALL BE PLANNED ACCORDINGLY.

LOCATION #4
 CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

LOCATION #7
 CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

LOCATION #13
 CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 61G20. CONTRACT 61G20 IS NEAR COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

LOCATION #17
 CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62K02. CONTRACT 62K02 IS NEAR COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY. CONTRACT 62K02 WILL INSTALL BLACK PAINTED EXTENSION ASSEMBLY POLE FOR PTZ CAMERA.

LOCATION #26
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62N97. CONTRACT 62N97 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62N97 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62N97. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

LOCATION #28
 CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

CONFLICTS AMONG OTHER PROJECTS CONTINUED

LOCATION #29
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62N97. CONTRACT 62N97 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62N97 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62N97. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

LOCATION #30.5
 CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

LOCATION #31
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62P51. CONTRACT 62P51 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P51 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62P51. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

LOCATION #32
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62P51. CONTRACT 62P51 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P51 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62P51. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

LOCATION #42
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62K04. CONTRACT 62K04 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62K04 SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS ONCE 62K04 INSTALL COMBINATION MAST ARM. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

LOCATION #55
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT XXXX. CONTRACT XXXX IS SCHEDULED AFTER CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE XXXX IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER XXXX. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

LOCATION #58
 CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 61G20. CONTRACT 61G20 IS NEAR COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.


LOCATION #64
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62P72. CONTRACT 62P72 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P72 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62P72. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

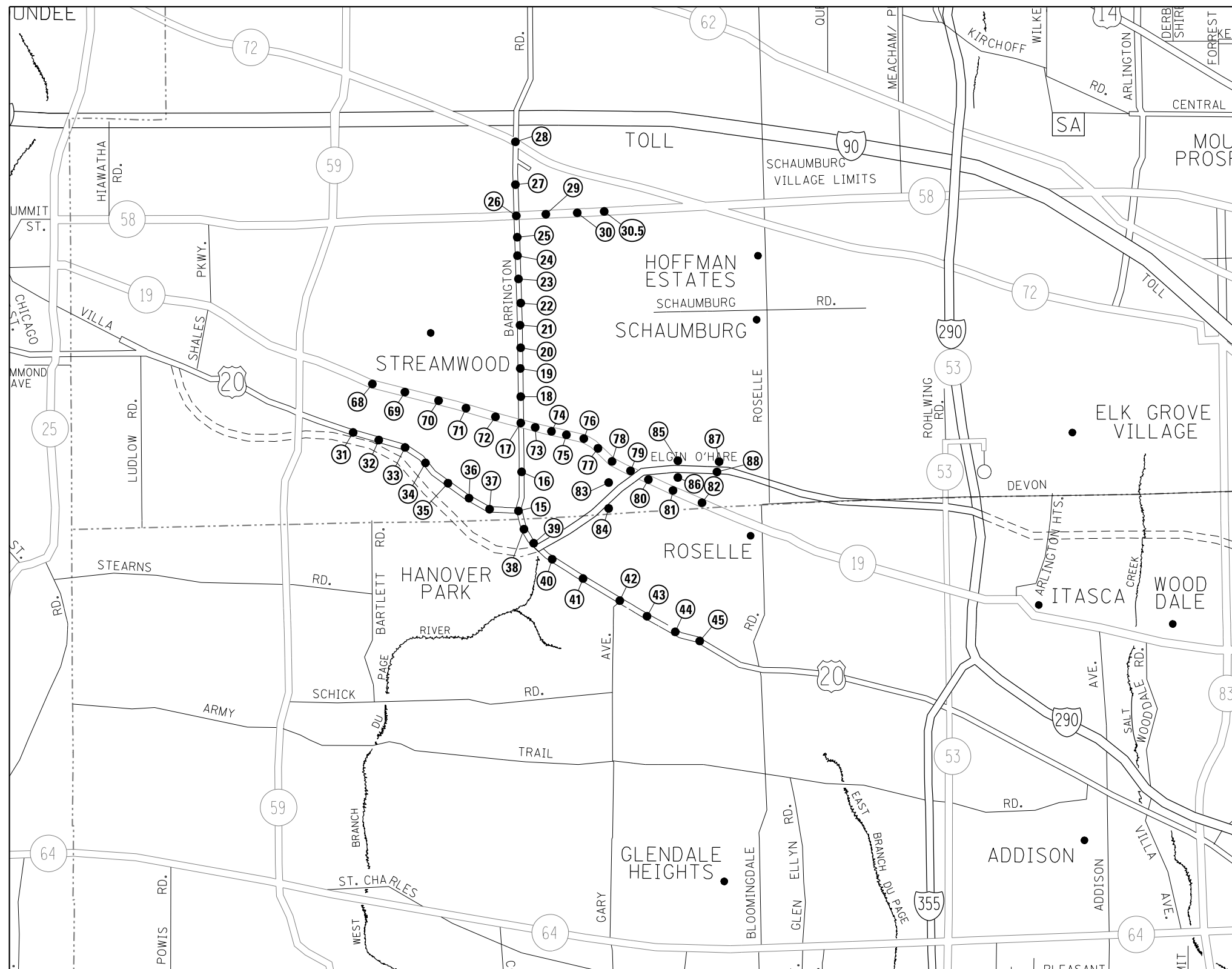
LOCATION #68
 CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 61H15. CONTRACT 61H15 IS APPROACHING COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

CONFLICTS AMONG OTHER PROJECTS CONTINUED

LOCATION #76
 CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62J30. CONTRACT 62J30 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62P72 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS. SIGNAL CONTROLLER QUANTITY IS PROVIDED AT THIS LOCATION BUT INSTALLATION WILL DEPEND ON CONTRACT 62J30 OTHERWISE THIS CONTROLLER SHALL BE DELIVERED TO IDOT SPARE PARTS IF NOT USED. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

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	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & CONFLICTS WITH OTHER CONTRACTS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -						VAR	2023 TRAFFIC 02	VARIOUS	306	3
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 62T54		
									FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				




LOCATION NO.	TS NO.	INTERSECTION NAME
15	13765	BARRINGTON RD AT US RTE 20 (LAKE ST)
16	13775	BARRINGTON RD AT WALNUT AVE
17	13745	BARRINGTON RD AT IL RTE 19 (IRVING PARK RD)
18	7860	BARRINGTON RD AT TOWER DR
19	21285	BARRINGTON RD AT RAMBLEWOOD DR
20	21280	BARRINGTON RD AT BUTTITTA DR / LAURIE LN
21	4165	BARRINGTON RD AT BOURBON PKWY / WEATHERSFIELD WAY
22	4180	BARRINGTON RD AT SCHAUMBURG RD
23	4182	BARRINGTON RD AT HOLMES WAY
24	21130	BARRINGTON RD AT OLD CHURCH RD
25	4170	BARRINGTON RD AT BODE RD
26	2725	BARRINGTON RD AT IL RTE 58 (GOLF RD)
27	20400	BARRINGTON RD AT ST ALEXIUS MEDICAL CTR
28	3290	BARRINGTON RD AT IL RTE 72 (HIGGINS RD)
29	20402	IL RTE 58 (GOLF RD) AT HOFFMAN EST SC
30	21370	IL RTE 58 (GOLF RD) AT KNOLLWOOD DR
30.5	2870	IL RTE 58 (GOLF RD) AT MOON LAKE BLVD/WALNUT LN
31	11270	US RTE 20 (LAKE ST) AT BARTLETT RD
32	1325	US RTE 20 (LAKE ST) AT OAK AVE
33	1330	US RTE 20 (LAKE ST) AT PARK AVE
34	6077	US RTE 20 (LAKE ST) AT NORTH AVE
35	20575	US RTE 20 (LAKE ST) AT WALNUT AVE
36	13762	US RTE 20 (LAKE ST) AT CENTER AVE
37	13760	US RTE 20 (LAKE ST) AT CHURCH ST
38	7695	US RTE 20 (LAKE ST) AT ONTARIOVILLE RD / BEAR FLAG DR
39	21910	US RTE 20 (LAKE ST) AT IL 390 RAMP
40	13770	US RTE 20 (LAKE ST) AT GREENBROOK BLVD
41	7870	US RTE 20 (LAKE ST) AT BARTELS RD / ARLINGTON DR
42	6030	US RTE 20 (LAKE ST) AT GARY AVE
43	7875	US RTE 20 (LAKE ST) AT BRYN MAWR AVE
44	22025	US RTE 20 (LAKE ST) AT RODENBURG RD
45	6065	US RTE 20 (LAKE ST) AT SPRINGFIELD DR
68	1935	IL RTE 19 (IRVING PARK RD) AT BARTLETT RD
69	8940	IL RTE 19 (IRVING PARK RD) AT PARK BLVD / PARK AVE
70	1980	IL RTE 19 (IRVING PARK RD) AT LINCOLN AVE / SUNNYDALE BLVD
71	1985	IL RTE 19 (IRVING PARK RD) AT EAST AVE
72	13756	IL RTE 19 (IRVING PARK RD) AT WESTVIEW PLAZA
73	13750	IL RTE 19 (IRVING PARK RD) AT MENARDS ENTRANCE
74	13755	IL RTE 19 (IRVING PARK RD) AT KINGSBURY DR
75	21450	IL RTE 19 (IRVING PARK RD) AT OLDE SALEM RD
76	1975	IL RTE 19 (IRVING PARK RD) AT WISE RD / GEORGETOWN AVE
77	1976	IL RTE 19 (IRVING PARK RD) AT MERCURY DR
78	1965	IL RTE 19 (IRVING PARK RD) AT SPRING RD
79	21710	IL RTE 19 (IRVING PARK RD) AT IL 390 FRONTAGE RD WEST
80	21709	IL RTE 19 (IRVING PARK RD) AT IL 390 FRONTAGE RD EAST
81	7635	IL RTE 19 (IRVING PARK RD) AT RODENBURG RD
82	7637	IL RTE 19 (IRVING PARK RD) AT WRIGHT BLVD
83	3	SPRINGSGUTH RD AT WESTBOUND FRONTAGE RD
84	6	SPRINGSGUTH RD AT EASTBOUND FRONTAGE RD
85	2	RODENBURG RD AT WESTBOUND FRONTAGE RD
86	5	RODENBURG RD AT EASTBOUND FRONTAGE RD
87	4	WRIGHT BLVD AT WESTBOUND FRONTAGE RD
88	7	WRIGHT BLVD AT EASTBOUND FRONTAGE RD

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	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION MAP (SHEET 2 OF 2)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -			VAR	2023 TRAFFIC 02	VARIOUS	306	5
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -	REVISED -	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.
						CONTRACT NO. 62T54				
						FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT				

FILE NAME: K:\PROJECTS\Projects\2022\22-ESR-562-IDD1.CADD\Drawings\Phase 2\CADD_Sheets\005-500-01.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE COOK COUNTY	80% FED 20% STATE DUPAGE COUNTY	100% VILLAGE OF SCHAUMBURG
				INTERCONNECT	INTERCONNECT	INTERCONNECT
				0021 URBAN	0021 URBAN	0021 URBAN
28000400	PER IMETER EROSION BARRIER	FOOT	400	400		
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	35	35		
66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5		
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5		
67100100	MOBILIZATION	L SUM	1	0.75	0.25	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.75	0.25	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.75	0.25	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.75	0.25	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.75	0.25	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5,183	5,183		
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	546	546		
81400100	HANDHOLE	EACH	12	12		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	88	67	8	13

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 305 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = *USER*	DESIGNED - EA	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	PLOT DATE = *DATE*	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
(SHEET 1 OF 4)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	6
CONTRACT NO. 62T54			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE COOK COUNTY	80% FED 20% STATE DUPAGE COUNTY	100% VILLAGE OF SCHAUMBURG
				INTERCONNECT	INTERCONNECT	INTERCONNECT
				0021	0021	0021
				URBAN	URBAN	URBAN
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	181,903	175,758		6,145
87900200	DRILL EXISTING HANDHOLE	EACH	12	12		
88500100	INDUCTIVE LOOP DETECTOR	EACH	159	133	26	
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	9	7	2	
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	12	11	1	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300,163	288,363		11,800
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1,064	1,064		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	76	62	8	6
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	107,866	103,566		4,300
X0327616	MAINTAINING ITS DURING CONSTRUCTION	CAL MD	2	2		
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	6,016	4,765	1,038	213
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	33	27	5	1
X1400216	LAYER II (DATALINK) SWITCH	EACH	77	56	7	14
X1400217	TERMINATE FIBER IN CABINET	EACH	1,308	996	108	204
X1400219	SPLICE FIBER IN CABINET	EACH	384	294	36	54

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES (SHEET 2 OF 4)			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	7
CONTRACT NO. 62T54			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE COOK COUNTY	80% FED 20% STATE DUPAGE COUNTY	100% VILLAGE OF SCHAUMBURG
				INTERCONNECT	INTERCONNECT	INTERCONNECT
				0021	0021	0021
				URBAN	URBAN	URBAN
X1400221	UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	31	24		7
X1400305	FIBER OPTIC PATCH PANEL, 144 PORT, RACK MOUNT	EACH	1	1		
X1400460	LAYER III (NETWORK) SWITCH	EACH	8	6	1	1
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12		
X8101100	UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS	FOOT	9,459	9,459		
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	27	17	4	6
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	19	16	3	
X8570231	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1	1		
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	16	13	3	
X8710029	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	48,039	41,894		6,145
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	131,607	115,896	15,711	
X8710039	FIBER OPTIC CABLE 144 FIBERS, SINGLE MODE	FOOT	12,202			12,202
Z0010688	CAMERA MOUNTING ASSEMBLY	EACH	20	16	4	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	464	412	52	
Z0033052	COMMUNICATIONS VAULT	EACH	5	5		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
(SHEET 3 OF 4)**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	8
CONTRACT NO. 62T54			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CORD_Sheets\088-IDD1.DETAILED.Dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

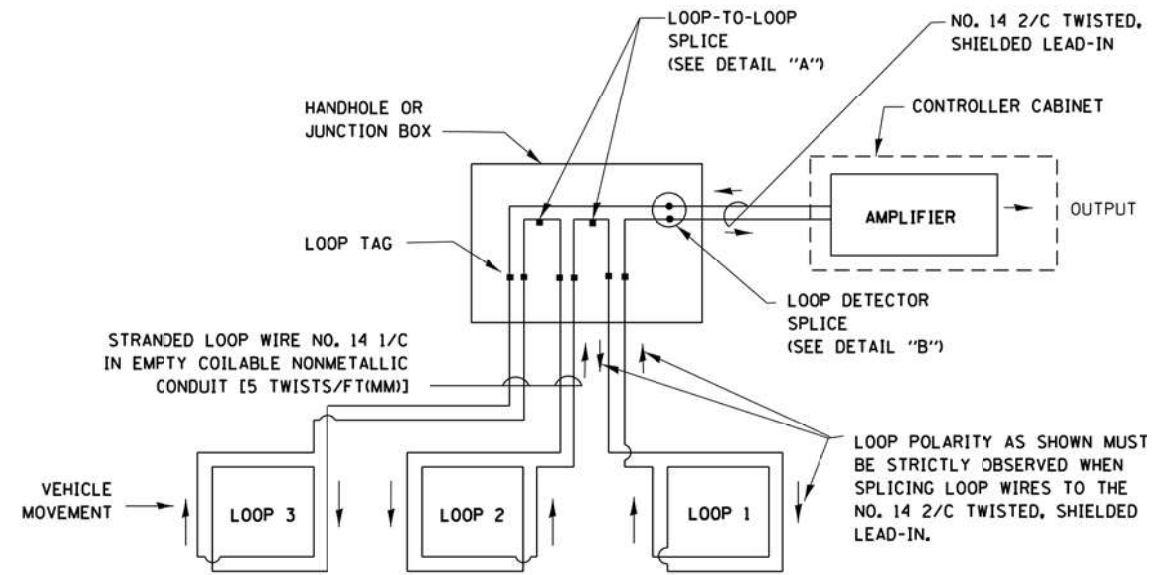
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	10
TS-05		CONTRACT NO. 62T54		
ILLINOIS FED. AID PROJECT				

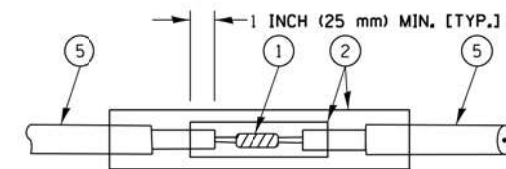
LOOP DETECTOR NOTES

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

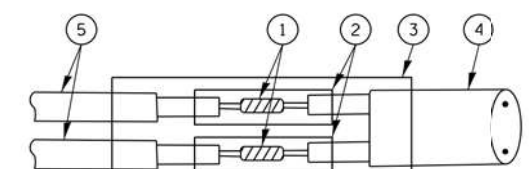


DETECTOR LOOP WIRING SCHEMATIC

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



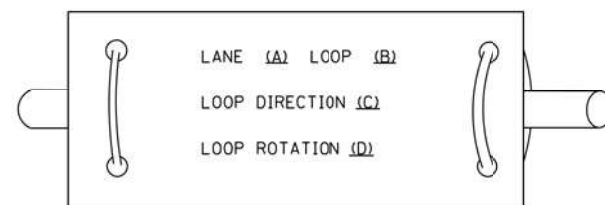
**DETAIL "A"
LOOP-TO-LOOP SPLICE**



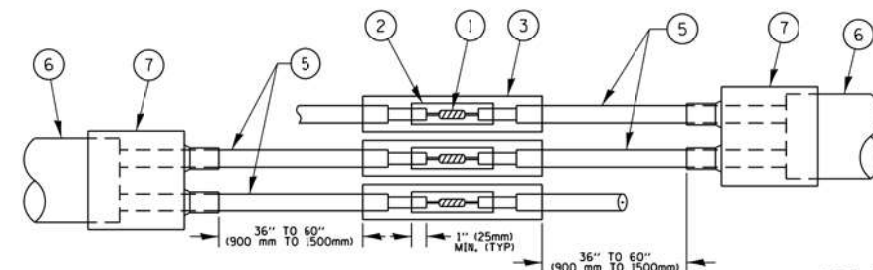
**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP

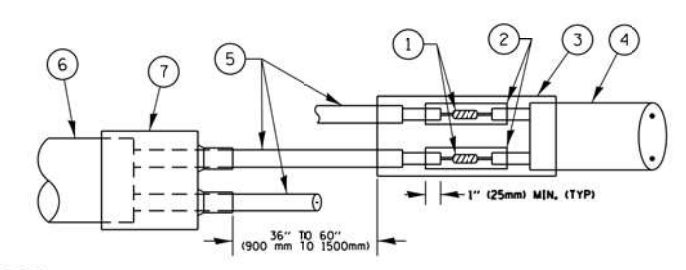
LOOP LEAD-IN CABLE TAG



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



**DETAIL "A"
LOOP-TO-LOOP SPLICE**

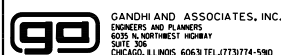


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- ② WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- ③ WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.
- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PREFORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM00.Contracts\Phase 2\CADD\Sheets\089-IDD1.DETAIL.S.2.dgn



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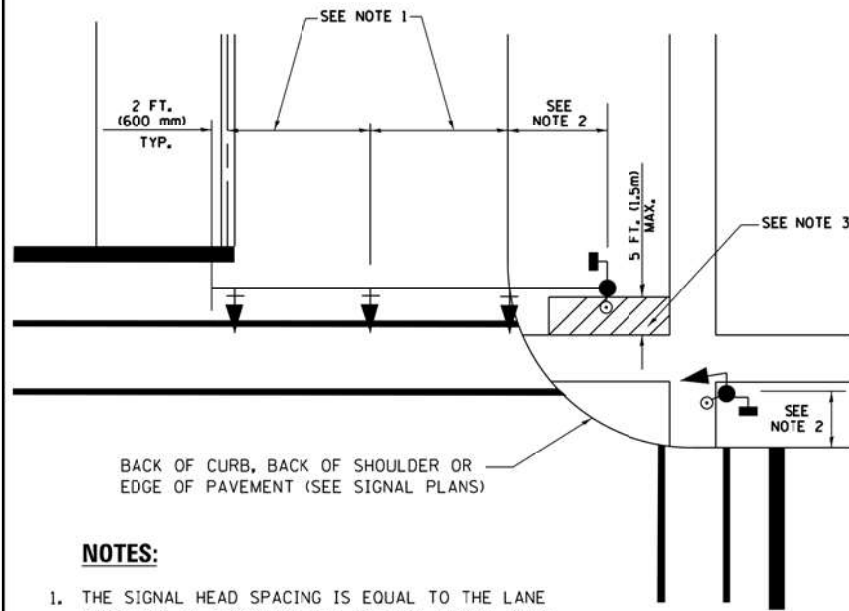
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05			CONTRACT NO. 62T54	
ILLINOIS FED. AID PROJECT				

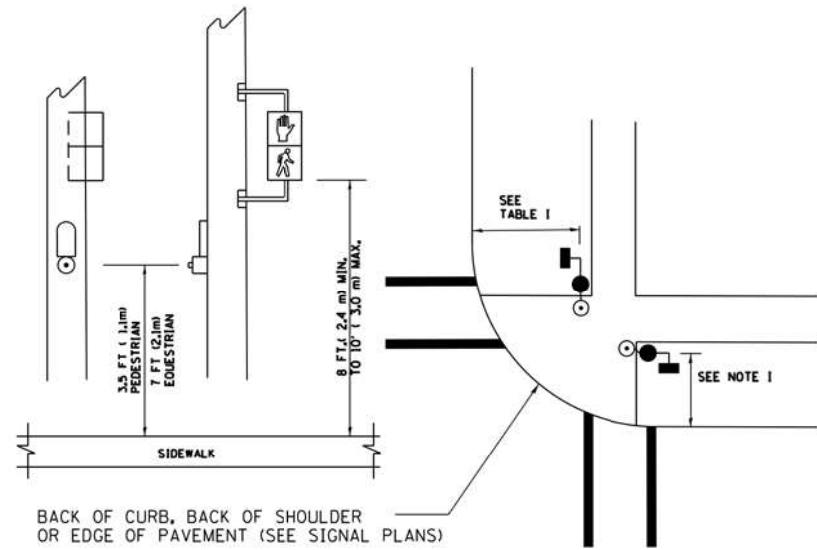
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

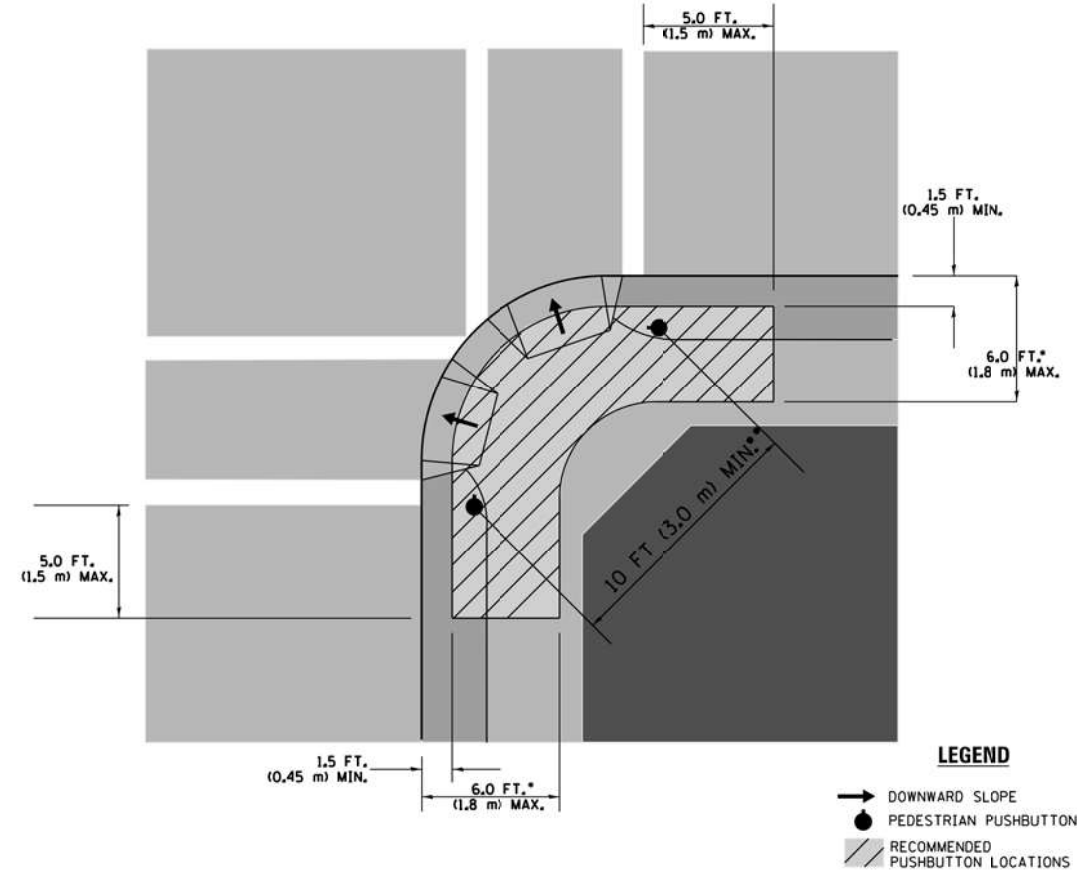
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

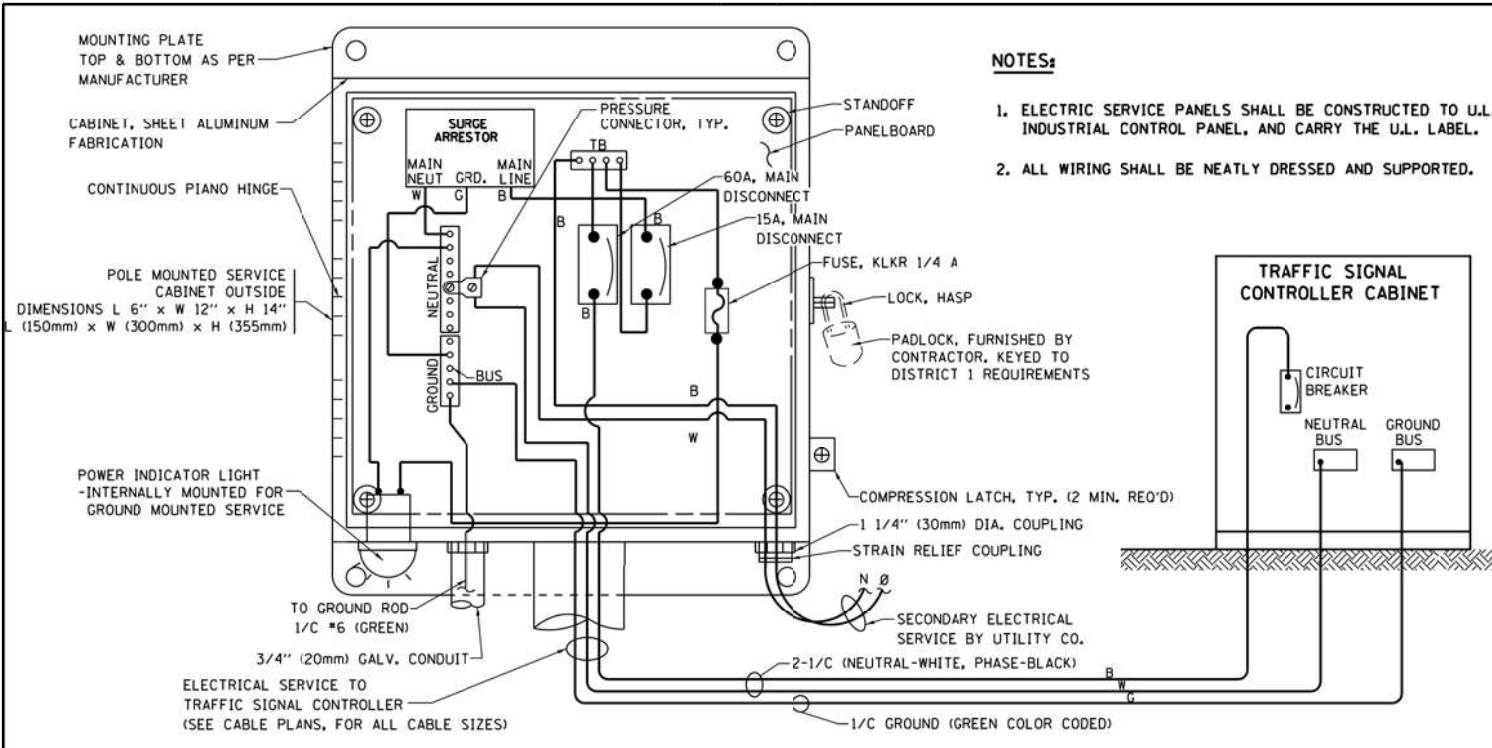
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

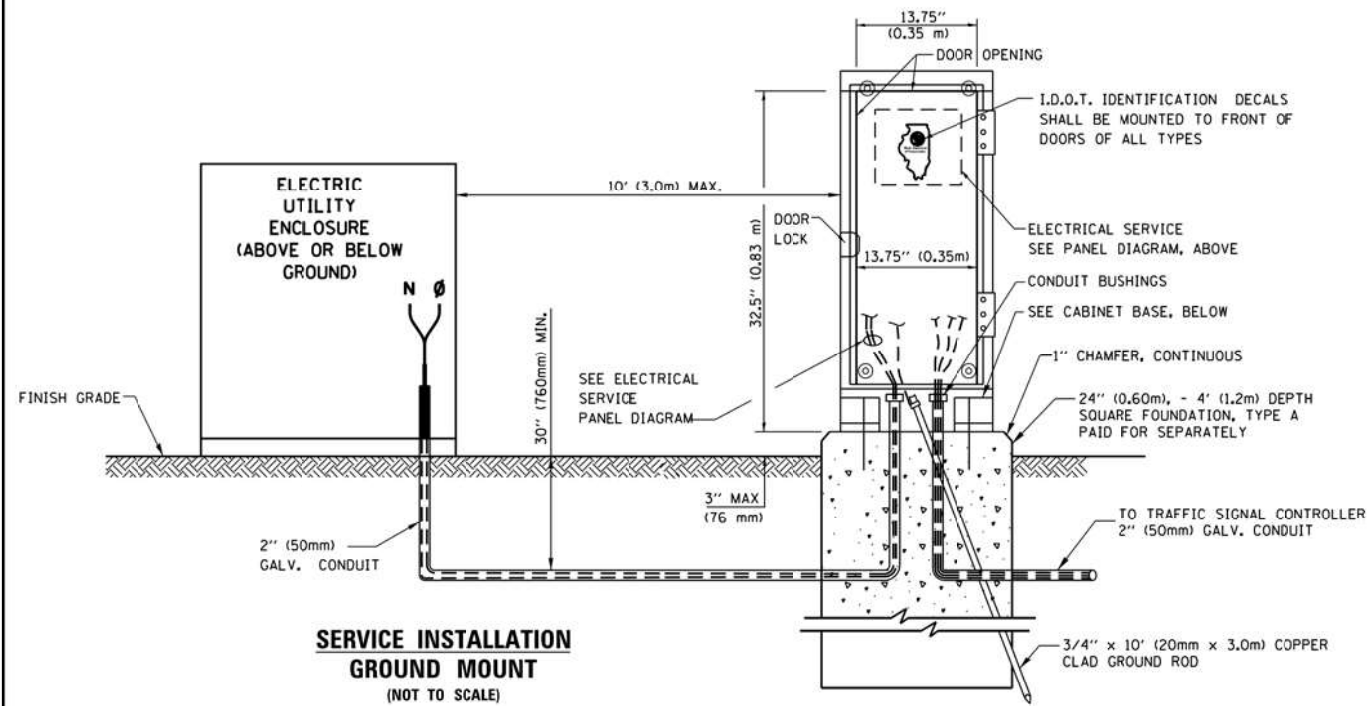
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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

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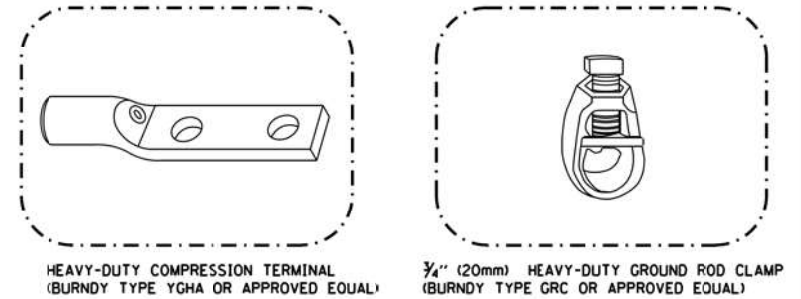
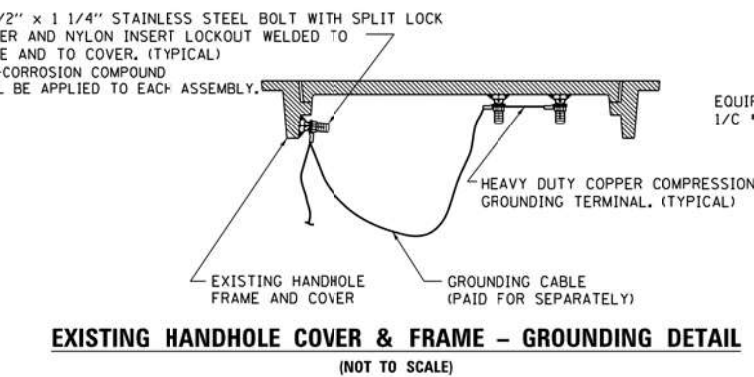
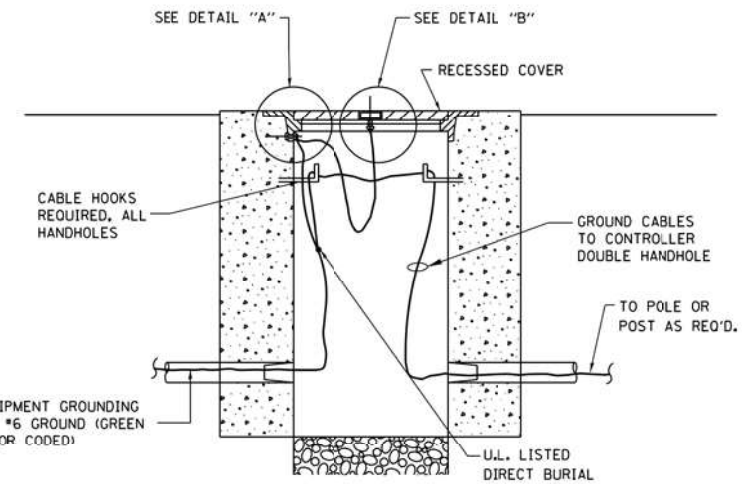
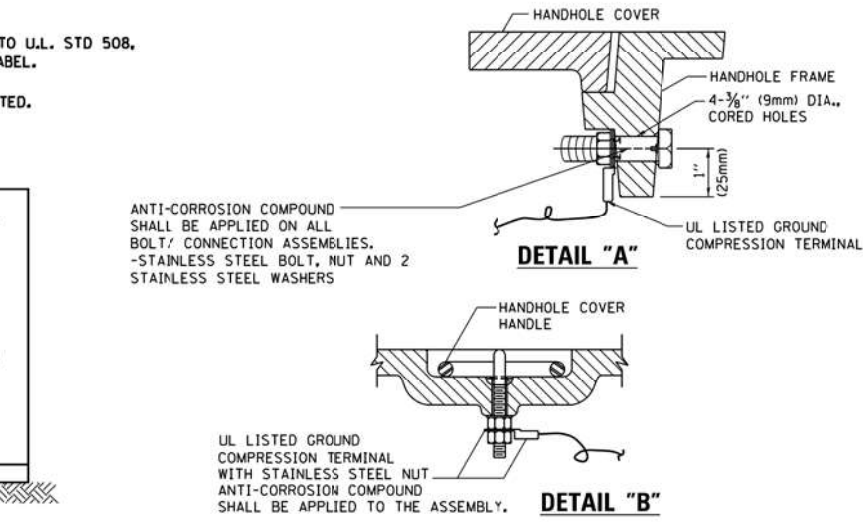
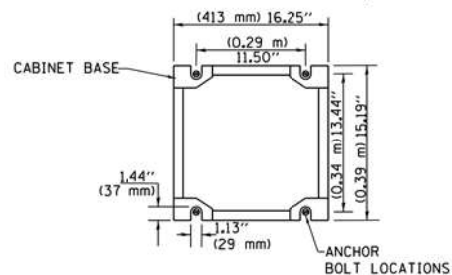
GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	TS-05 ILLINOIS FED. AID PROJECT		CONTRACT NO. 62T54		



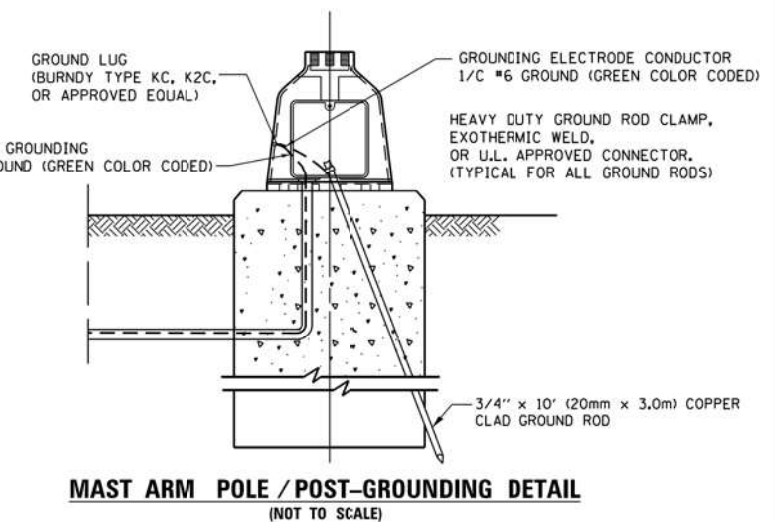
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



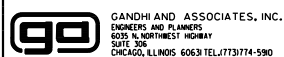
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



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



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 2022-02-22 ESR-502-IDD1.CM40 Contracts Phase 2\CADD_Sheets\011.DDT DETAILS-4.dgn



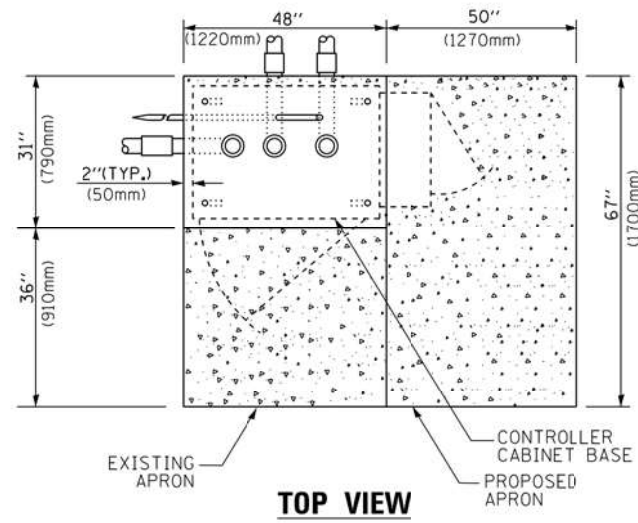
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

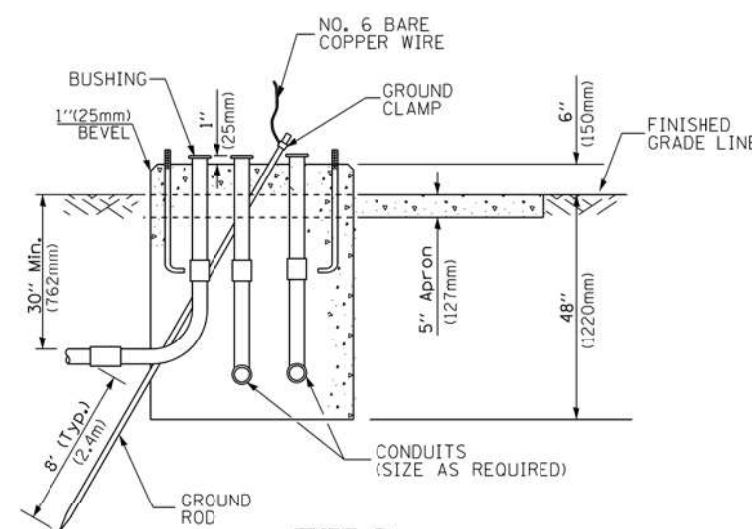
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

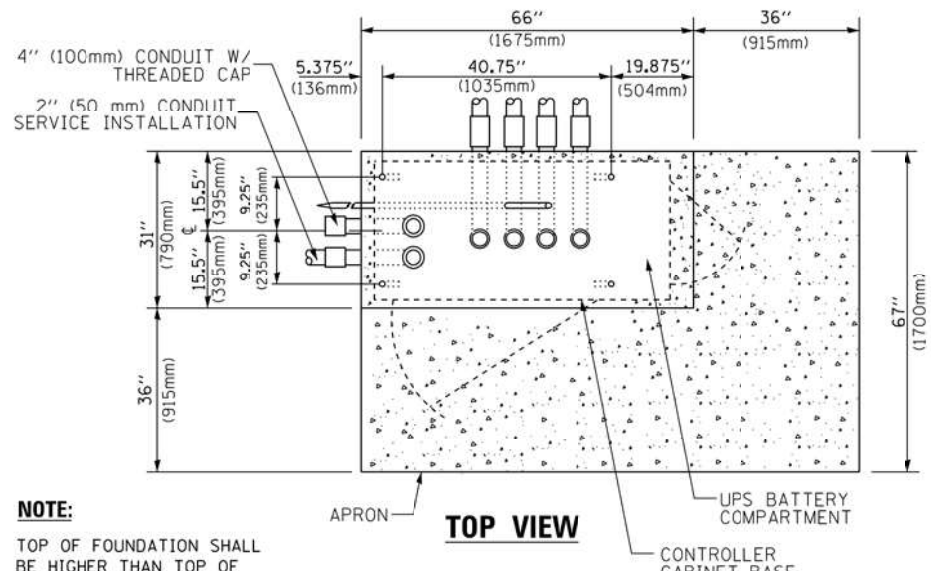
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VAR	2023 TRAFFIC 02	VARIOUS	306	13
TS-05		CONTRACT NO. 62T54		
ILLINOIS FED. AID PROJECT				



TOP VIEW

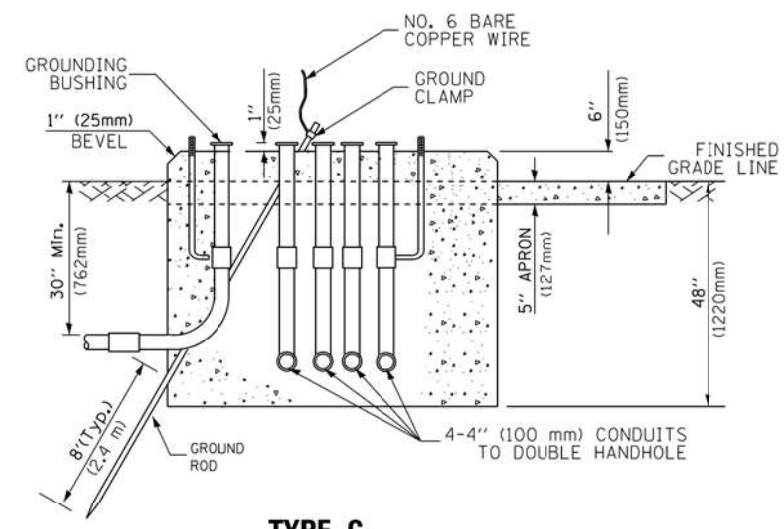


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

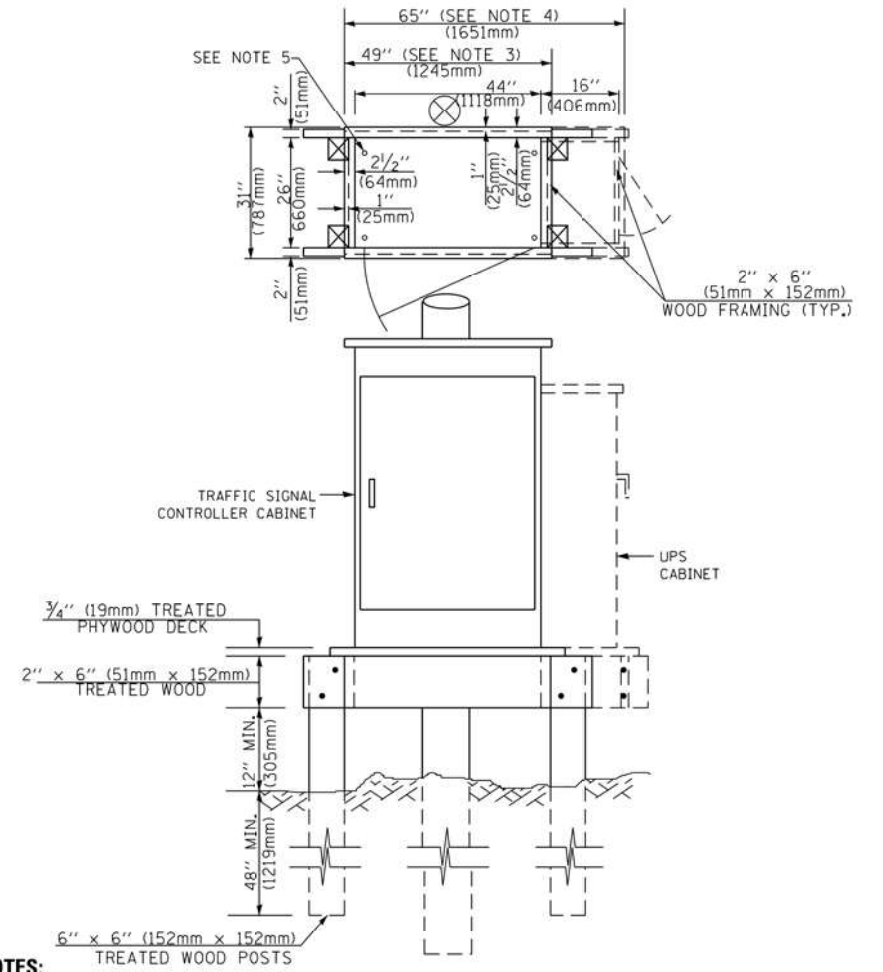


TOP VIEW

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



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

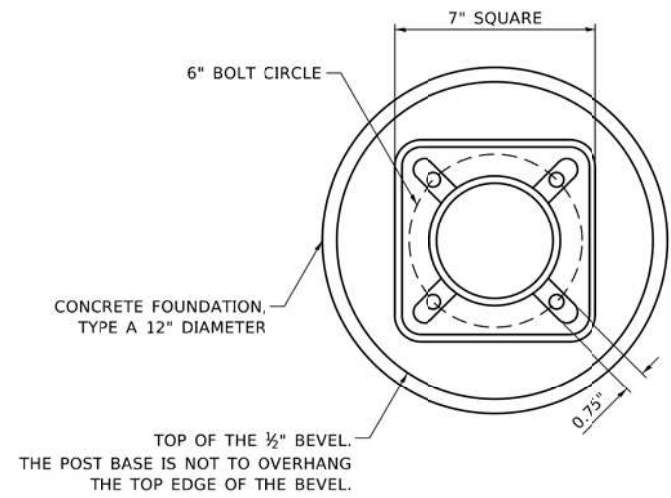
NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

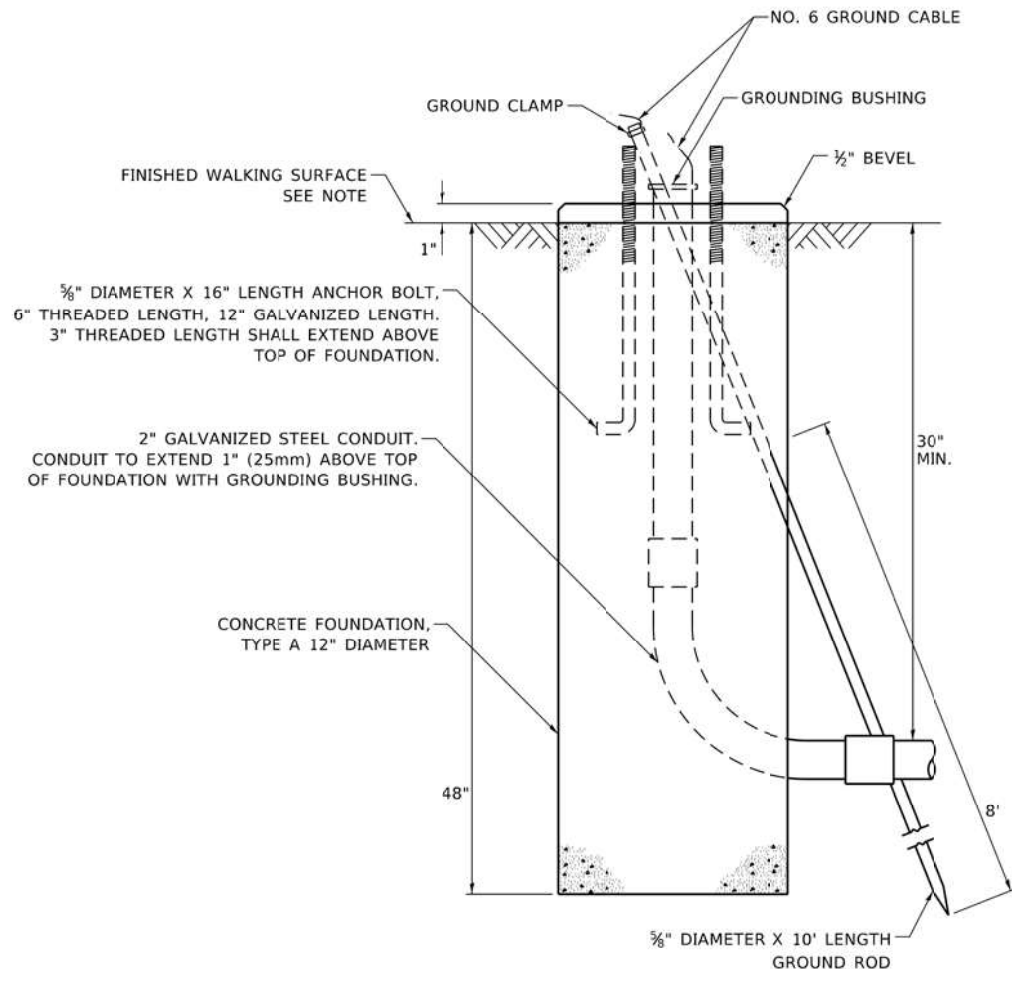
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GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60631 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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											ILLINOIS FED. AID PROJECT	

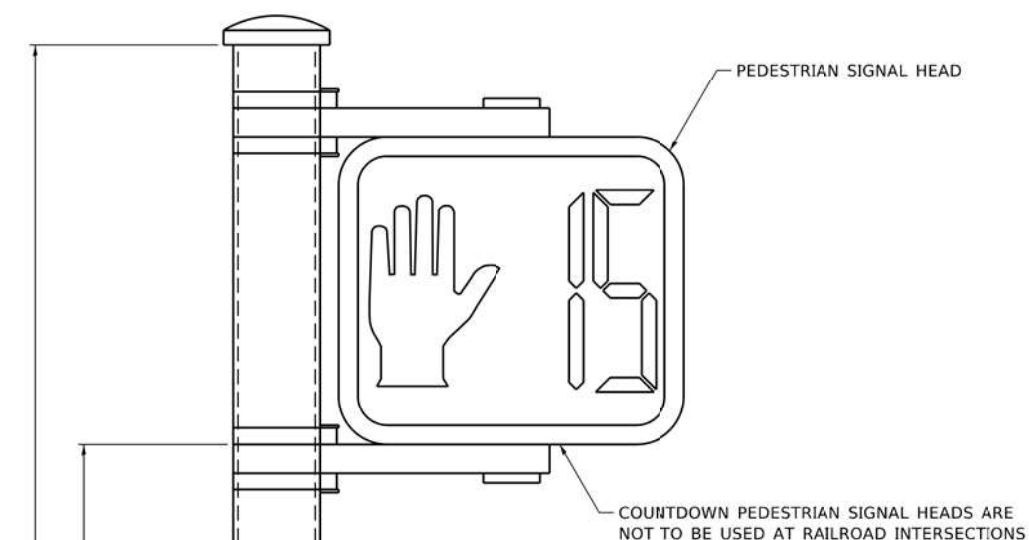


BOLT PATTERN

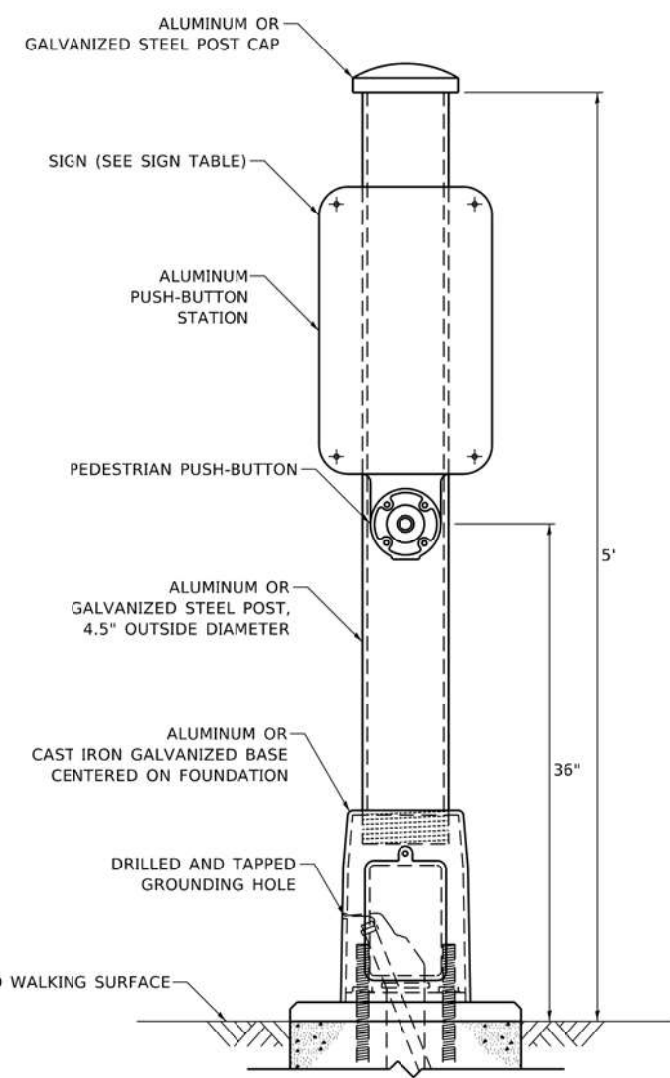
NOTE:
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



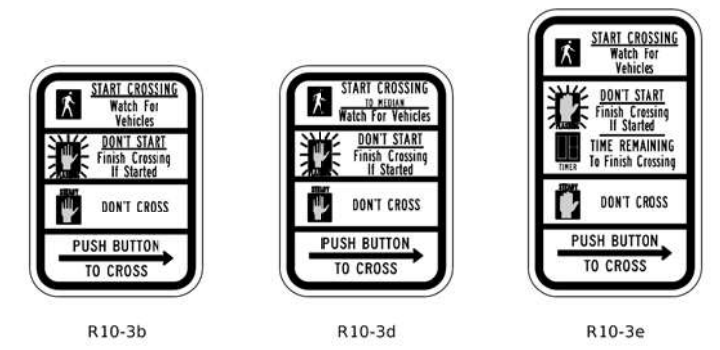
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

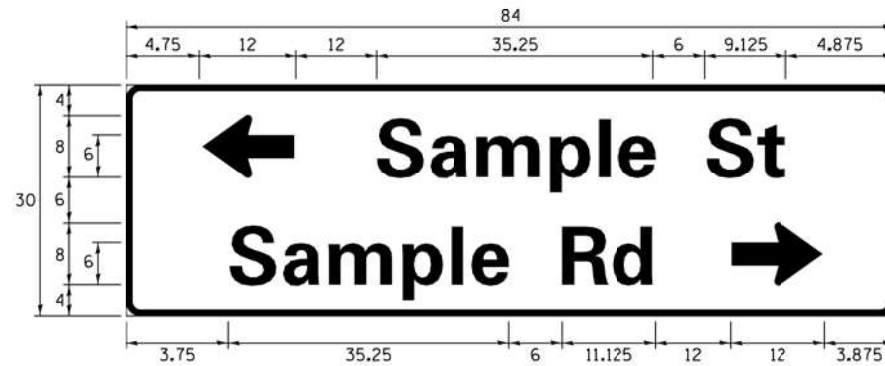
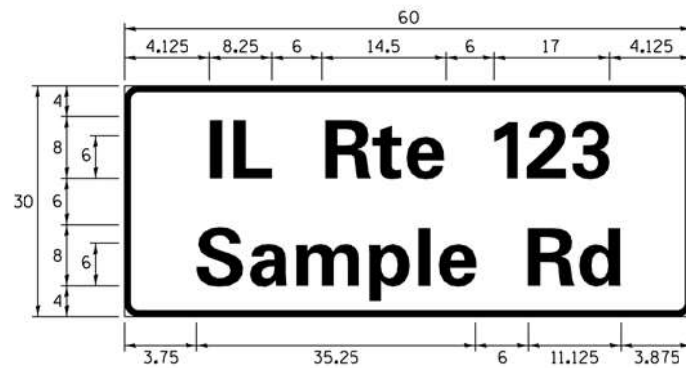
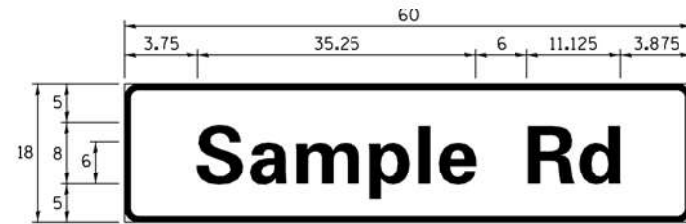
SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:
1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD_Sheets\014.IDDT DETAILS.7.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - IP	REVISED - 10/15/2020	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1"	DRAWN - IP	REVISED -					VAR	2023 TRAFFIC 02	VARIOUS	306	16
PLOT DATE = \$DATE\$	CHECKED - LP	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			TS-05		CONTRACT NO. 62T54			
	DATE - 10/15/2018	REVISED -					ILLINOIS FED. AID PROJECT					

SIGN PANEL – TYPE 1 OR TYPE 2



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

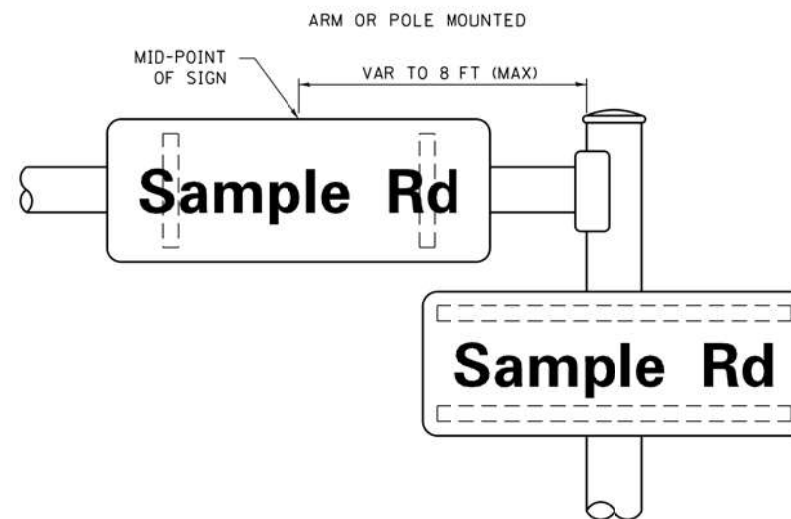
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

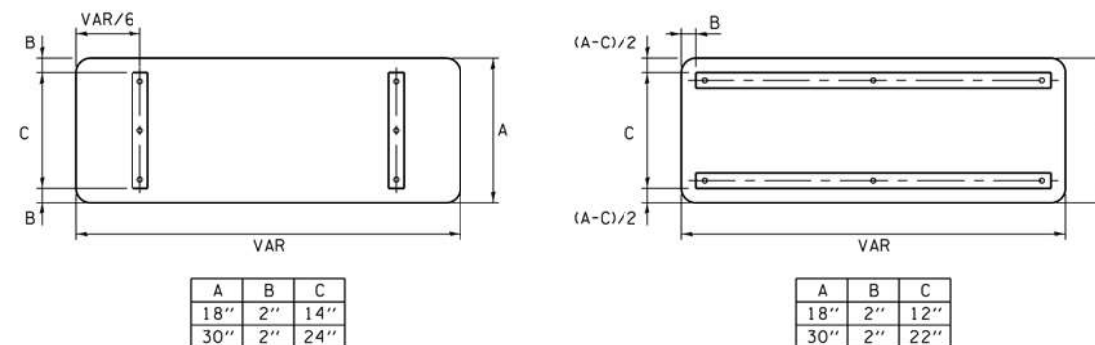
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

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

MOUNTING LOCATION



SUPPORTING CHANNELS

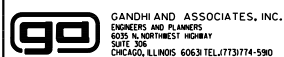


STANDARD ALPHABETS SPACING CHART

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

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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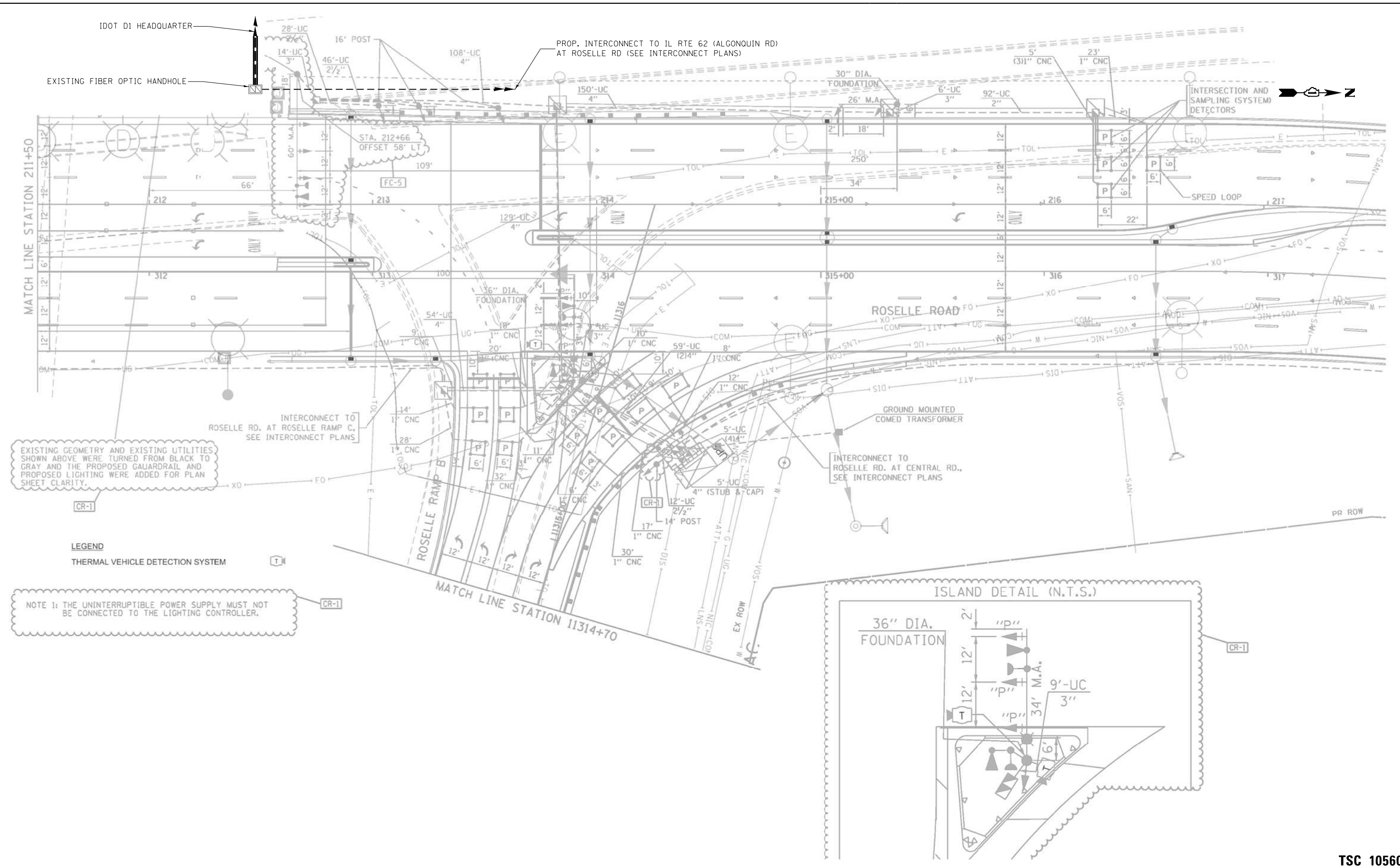
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	DATE - 10/01/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	17
TS-02		CONTRACT NO. 62T54		
ILLINOIS FED. AID PROJECT				

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\015-Roselle Rd at I-90 West Ramp-INT.dgn



EXISTING GEOMETRY AND EXISTING UTILITIES SHOWN ABOVE WERE TURNED FROM BLACK TO GRAY AND THE PROPOSED GUARDRAIL AND PROPOSED LIGHTING WERE ADDED FOR PLAN SHEET CLARITY.

LEGEND
THERMAL VEHICLE DETECTION SYSTEM

NOTE 1: THE UNINTERRUPTIBLE POWER SUPPLY MUST NOT BE CONNECTED TO THE LIGHTING CONTROLLER.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TSC 10560
IDOT CENTRACS
FORMER ECON 81

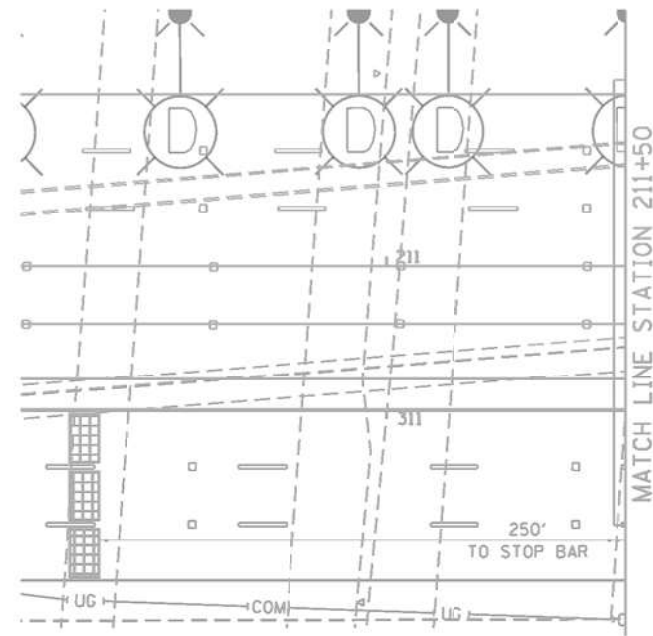
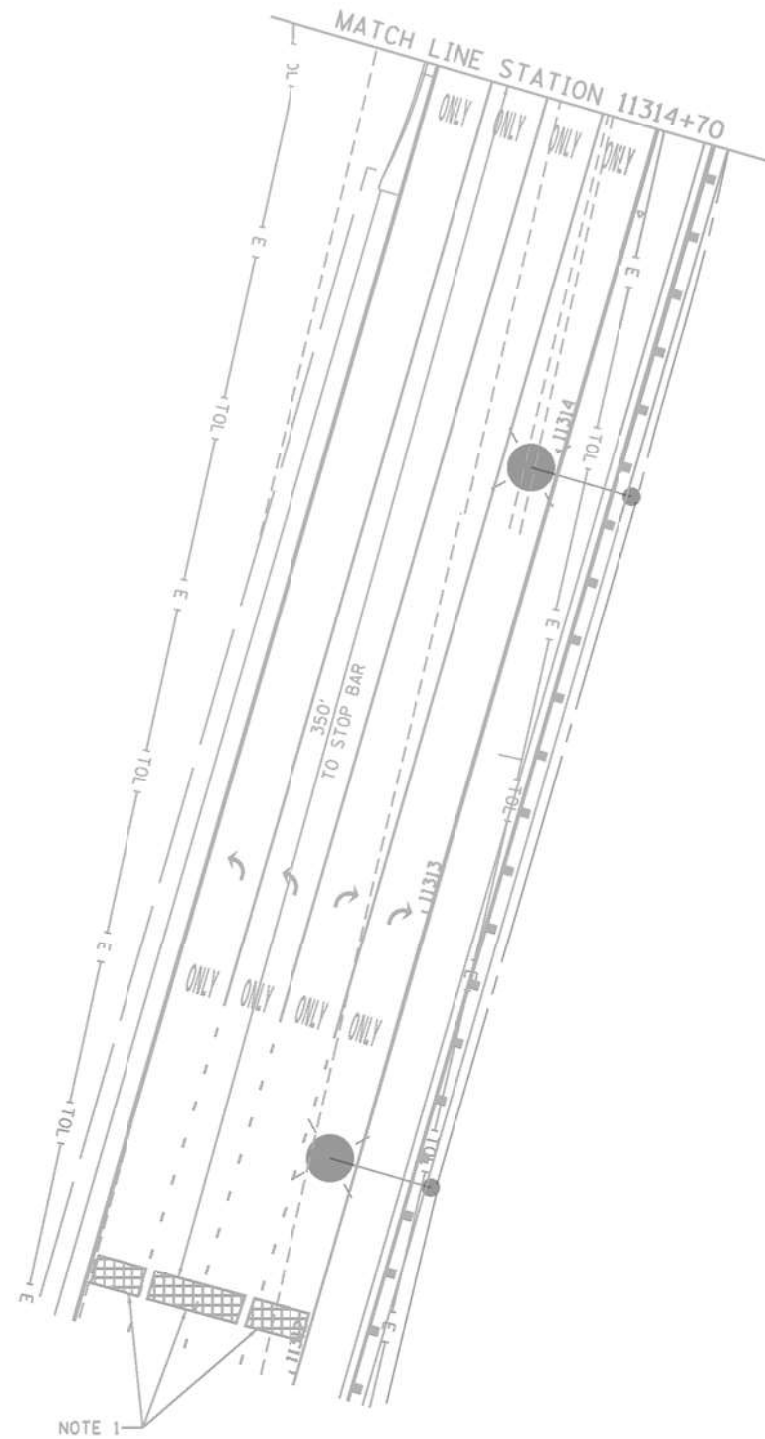


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PLOT DATE = \$DATE*		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #1
ROSELLE RD AT I-90 WEST RAMP INTERSECTION PLAN SHEET 1
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	18
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



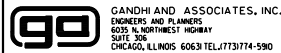
EXISTING GEOMETRY AND EXISTING UTILITIES SHOWN ABOVE WERE TURNED FROM BLACK TO GRAY AND THE PROPOSED GAUARDRAIL AND PROPOSED LIGHTING WERE ADDED FOR PLAN SHEET CLARITY.

CR-1

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TSC 10560
IDOT CENTRACS
FORMER ECON 81

K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\016.Roselle Rd at I-90 West Ramp.INT.2.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

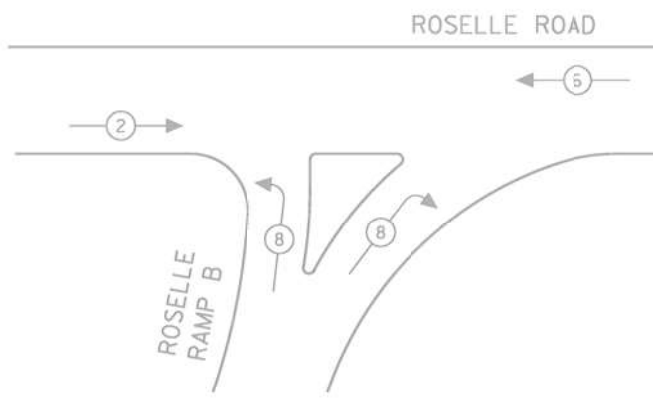
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PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

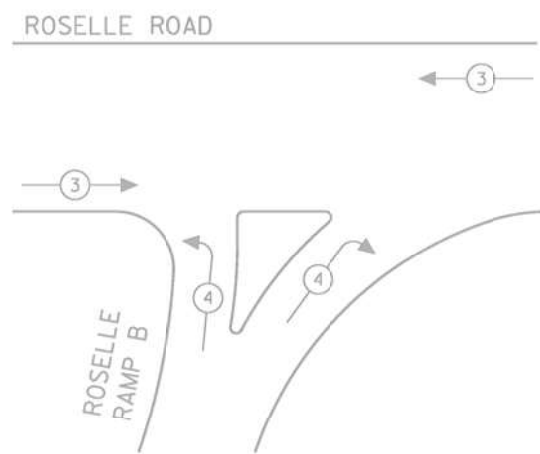
LOCATION #1
ROSELLE RD AT I-90 WEST RAMP INTERSECTION PLAN SHEET 2

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	19
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



PHASE DESIGNATION DIAGRAM

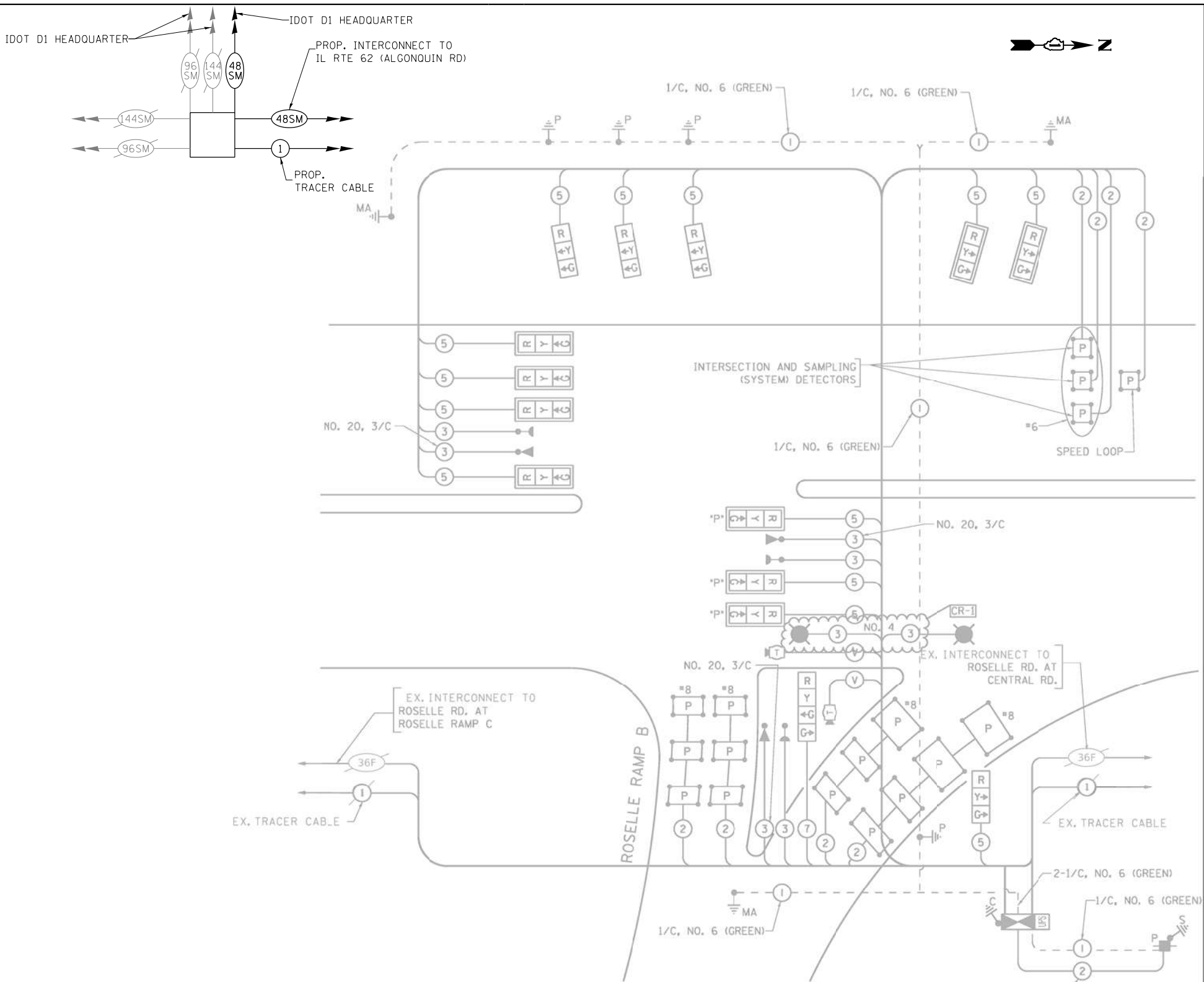


EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←→	↑↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	WATTAGE		TOTAL WATTAGE
		INCAND.	LED	
SIGNAL (RED)	13	17	0.50	110.5
(YELLOW)	13	25	0.25	81.25
(GREEN)	14	15	0.25	52.5
ARROW		12	0.10	
LED. SIGNAL		25	1.00	
CONTROLLER	1	100	1.00	100
ILLUM. SIGN		25	0.05	
VIDEO SYSTEM		150	1.00	
LUMINAIRE	1	465	0.50	232.5
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL = 576.75

COOK COUNTY HIGHWAY DEPARTMENT
 69 W. WASHINGTON STREET, RM # 2300
 CHICAGO, ILLINOIS 60602-1369
 ENERGY SUPPLY CONTACT: ELEANOR SARALLO
 PHONE: (630) 424-5124
 COMPANY: COMMONWEALTH EDISON



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

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

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM00-Contracts\Phase 2\CADD\Sheets\07.Roselle Rd at I-90 West Ramp.CADD



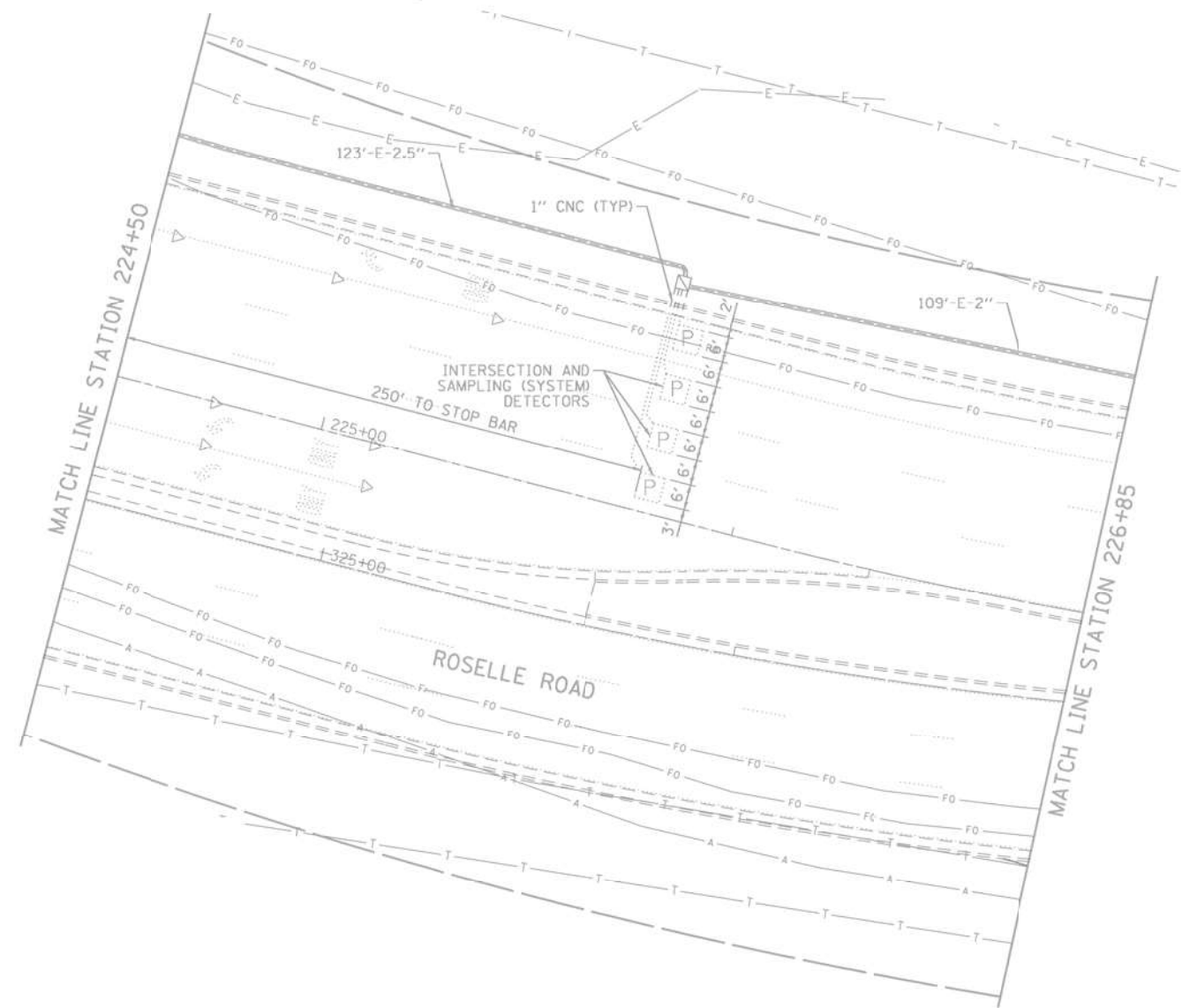
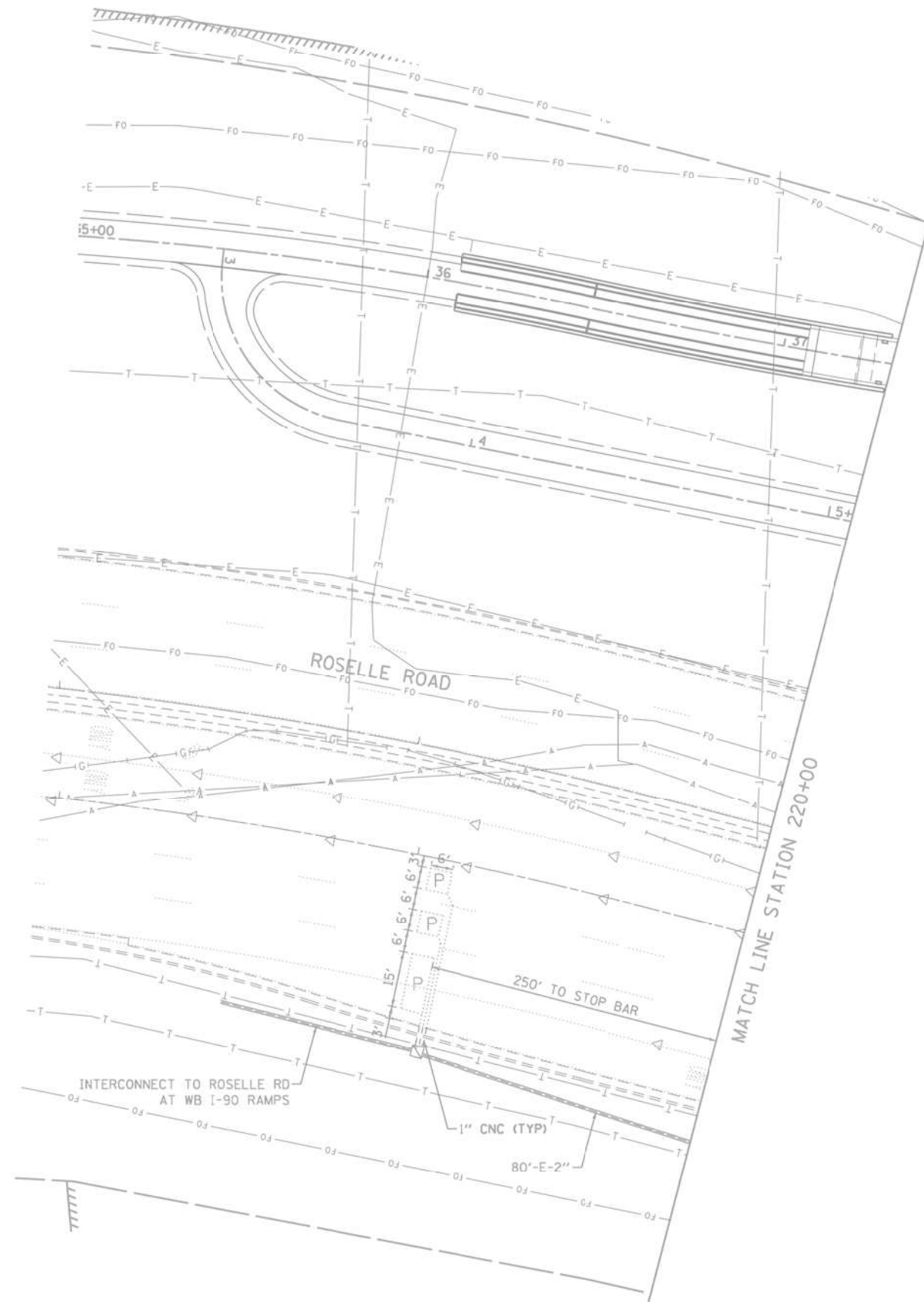
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PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #1
ROSELLE RD AT I-90 WEST RAMP CABLE PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	20
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

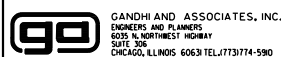
TS 10560
IDOT CENTRACS
FORMER ECON 81



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 10293
IDOT CENTRACS
FORMER ECON 81

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1DDT.CM40_Centracs Phase 2\CADD_Sheets\019_Roselle Rd at Central Rd.INT.2.dgn



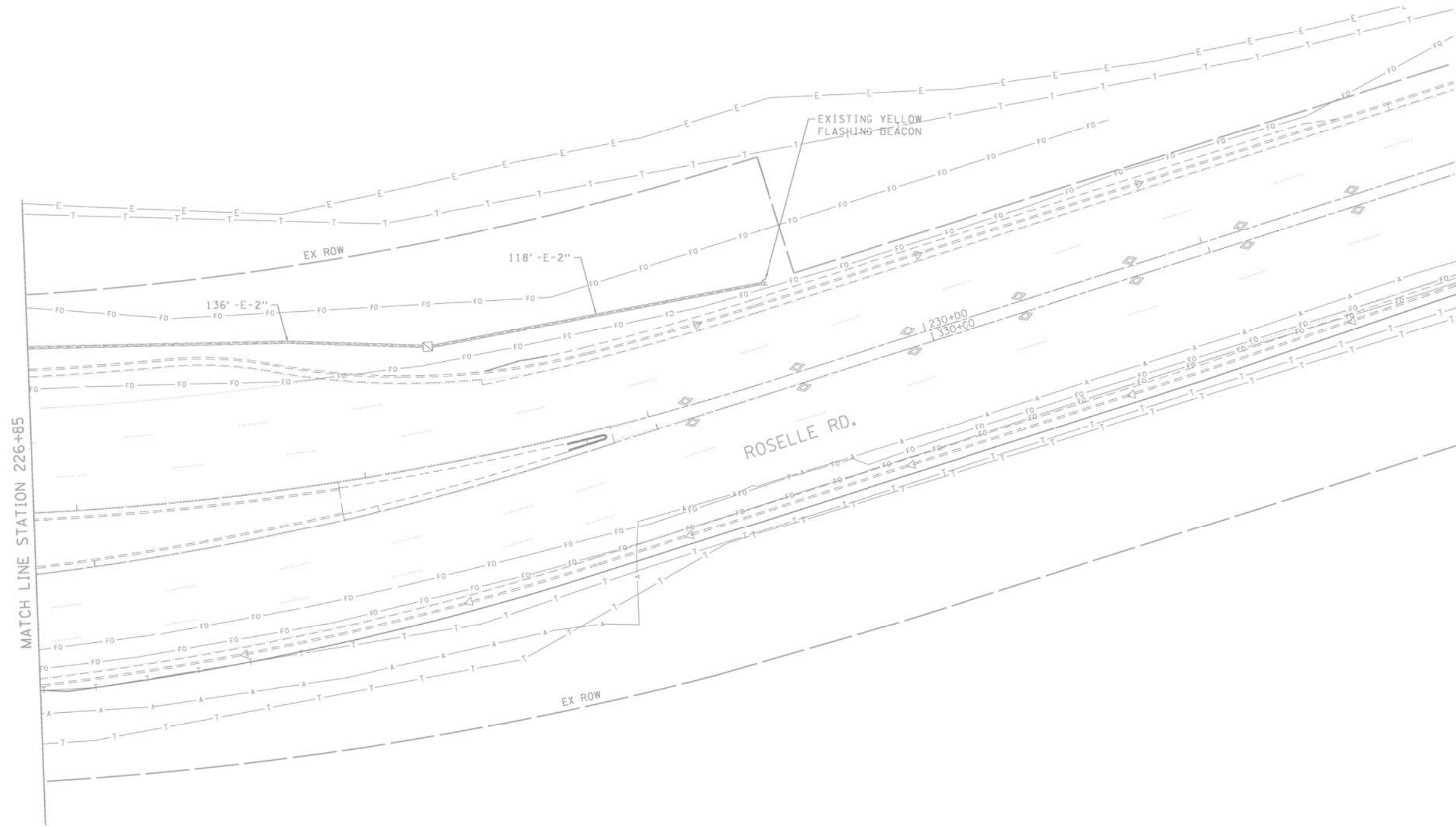
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PLOT DATE = \$DATE*	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #2
ROSELLE RD AT CENTRAL RD INTERSECTION PLAN SHEET 2

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

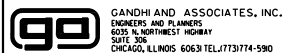
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	22
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 10293
IDOT CENTRACS
FORMER ECON 81

K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Centracas Phase 2\ICODD_Sheets\020-Roselle Rd at Central Rd.INT_3.dgn



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	DATE - 10/31/2022	REVISED -

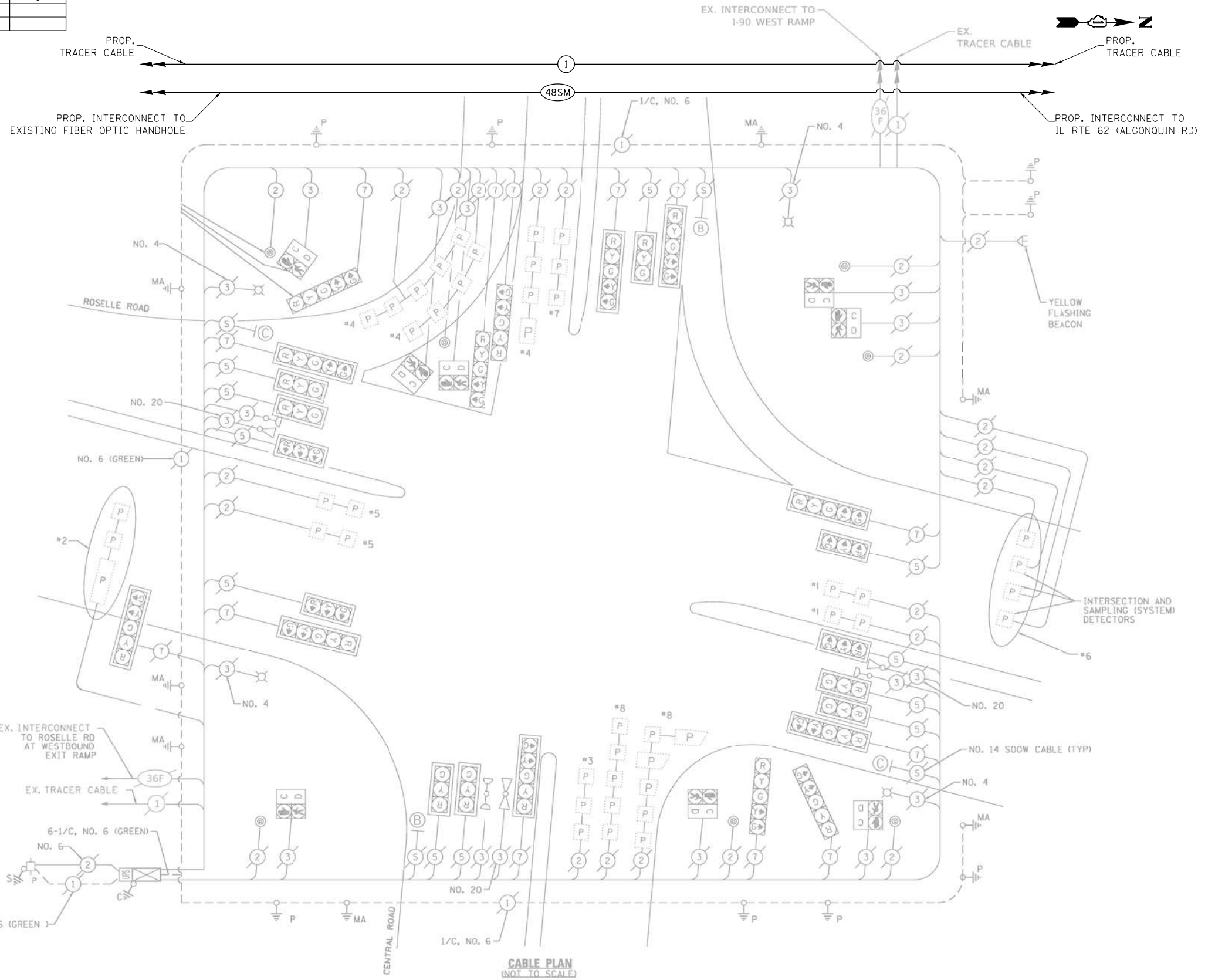
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #2
ROSELLE RD AT CENTRAL RD INTERSECTION PLAN SHEET 3
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	23
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

SCHEDULE OF QUANTITIES

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



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
	NO LAMPS	WATTAGE INCAND.	OPERATION LED	TOTAL WATTAGE
SIGNAL (RED)	24	17	0.50	204.00
(YELLOW)	24	25	0.25	150.00
(GREEN)	24	15	0.25	90.00
ARROW	26	12	0.10	31.20
RED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN		25	0.05	
VIDEO SYSTEM			1.00	
LASHER				0.50
ENERGY COSTS TO:				TOTAL = 775.20
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096 ENERGY SUPPLY CONTACT: ELEANOR SARALLO PHONE: (630) 424-5124 COMPANY: COMMONWEALTH EDISON				

CABLE PLAN
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-101.CM40_Centracs_Phase 2\CADD_Sheets\021.Roselle Rd at Central Rd.Caddgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

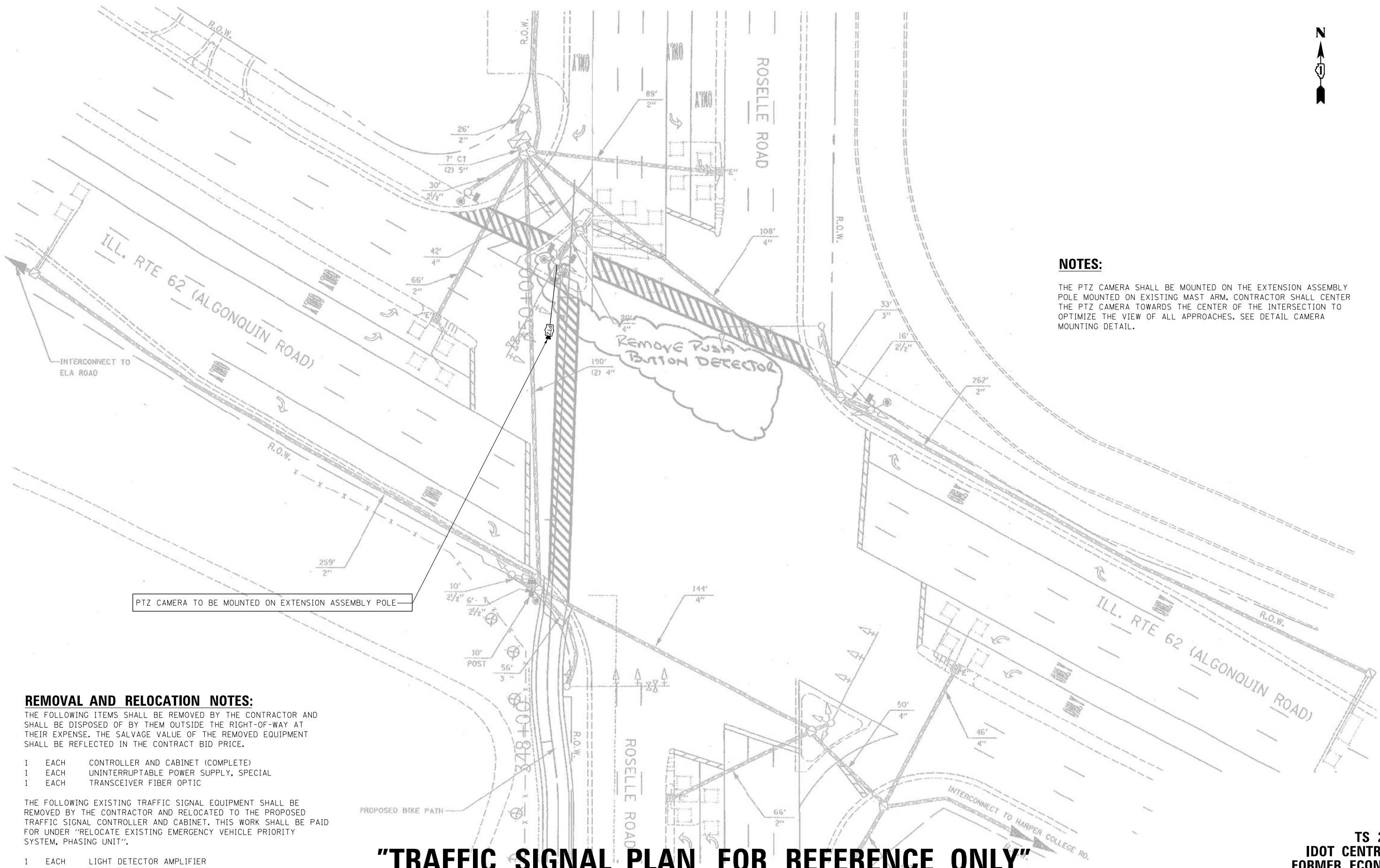
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #2
ROSELLE RD AT CENTRAL RD CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	24
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 10293
IDOT CENTRACS
FORMER ECON 81**



NOTES:
 THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

PTZ CAMERA TO BE MOUNTED ON EXTENSION ASSEMBLY POLE

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

- 1 EACH LIGHT DETECTOR AMPLIFIER

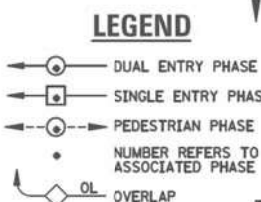
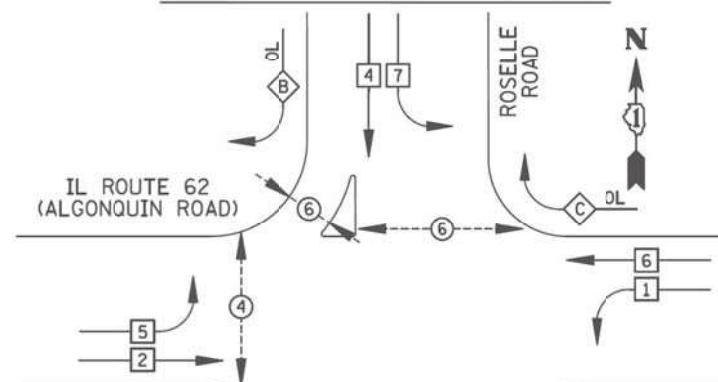
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 2990
 IDOT CENTRACS
 FORMER ECON 96**

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\022.Roselle Rd at IL Rte 62.INT.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #3 ROSELLE RD AT IL RTE 62 (ALGONQUIN RD) INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -							CONTRACT NO. 62T54			
								FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

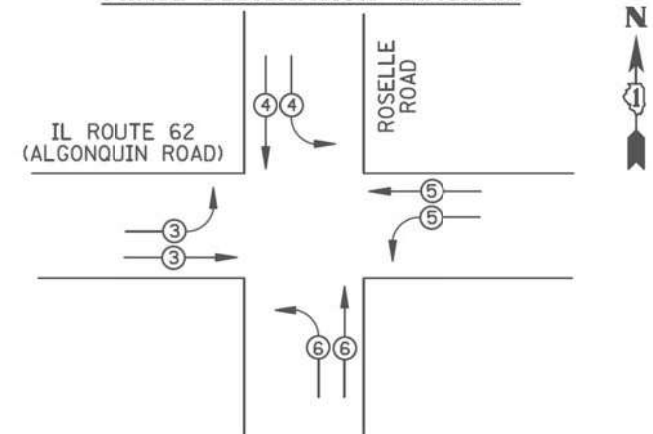
EXISTING CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION

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

EXISTING PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	↶	↷

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

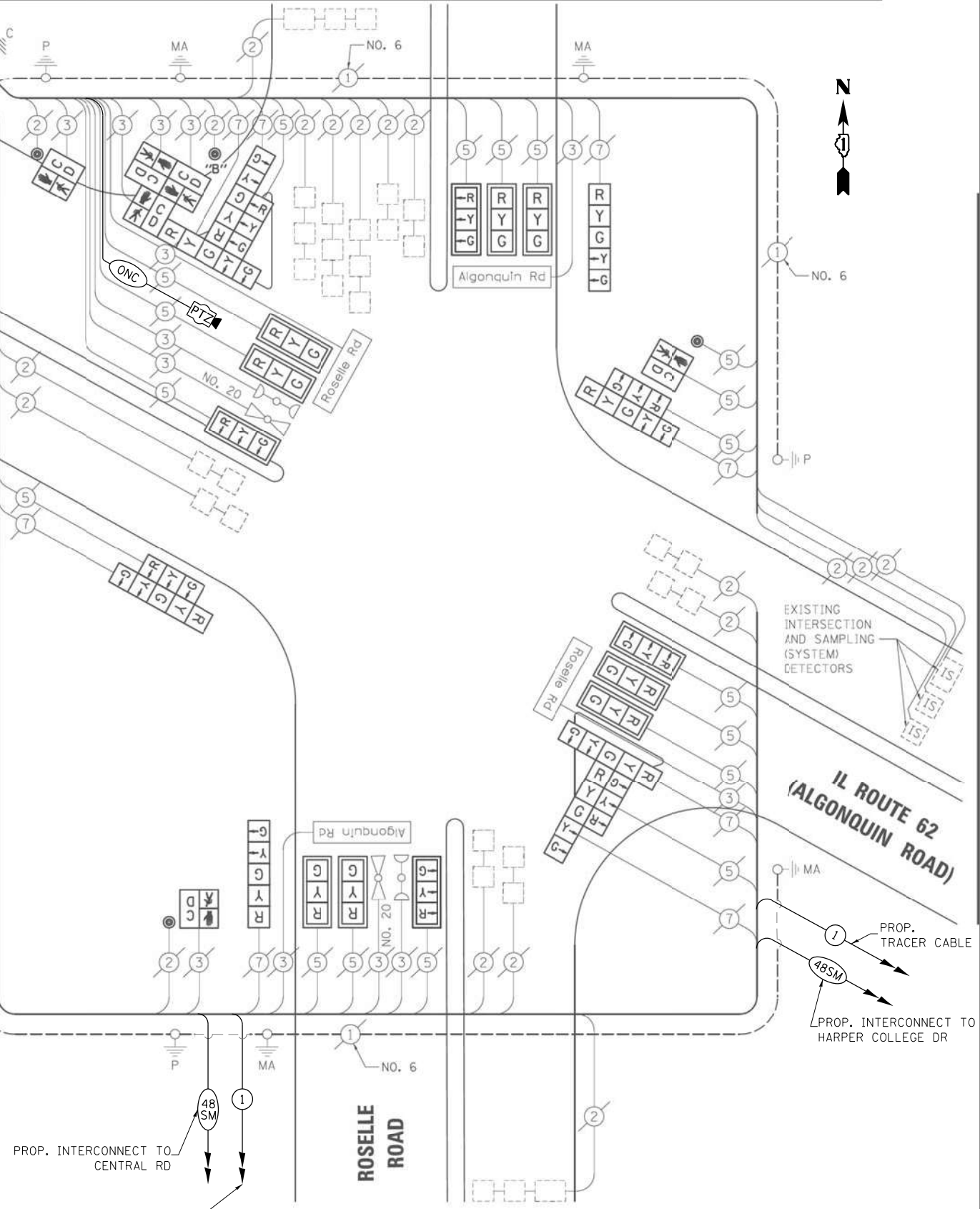
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	24	135	17	0.50	204
(YELLOW)	24	135	25	0.25	150
(GREEN)	24	135	15	0.25	90
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	6	90	25	1.00	150
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	4	84	100	0.50	200
FLASHER		135	25	0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION, 201 WEST CENTER COURT, SCHAUMBURG, IL 60196-1096					TOTAL = 913.2

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	19
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	135
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
LAYER III (NETWORK) SWITCH	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

NOTE:
PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

PROP. TRACER CABLE
PROP. INTERCONNECT TO ELA RD



CABLE PLAN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**LOCATION #3
ROSELLE RD AT IL RTE 62 (ALGONQUIN RD) CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	26
CONTRACT NO. 62T54				

**TS 2990
IDOT CENTRACS
FORMER ECON 96**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-962-101.CM00.Contracts\Phase 2\CADD\Sheets\023.Roselle Rd at IL Rte 62.CADD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
8035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60639 TEL: (773) 774-5900

DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

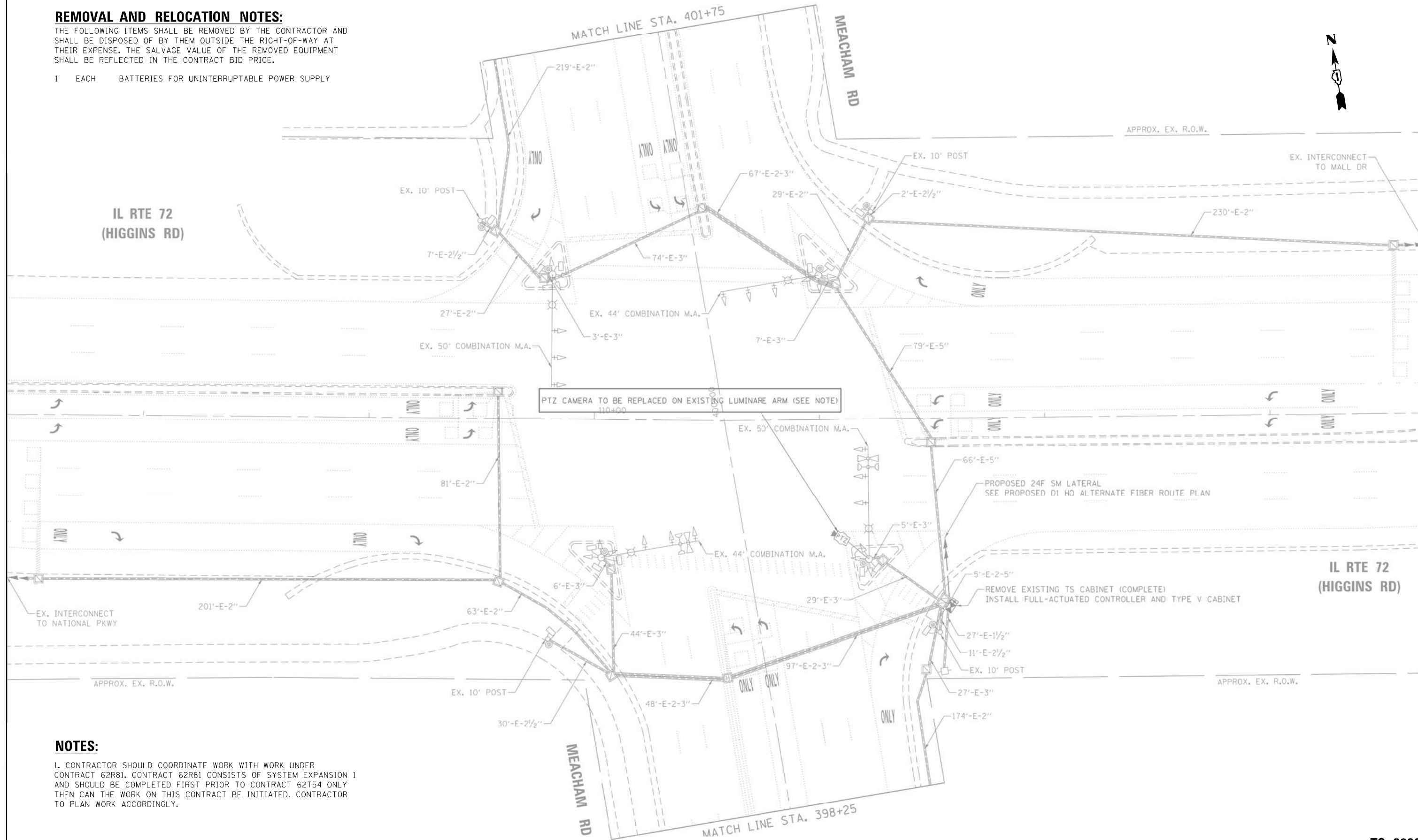
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



PTZ CAMERA TO BE REPLACED ON EXISTING LUMINAIRE ARM (SEE NOTE)

PROPOSED 24F SM LATERAL
SEE PROPOSED D1 HD ALTERNATE FIBER ROUTE PLAN

REMOVE EXISTING TS CABINET (COMPLETE)
INSTALL FULL-ACTUATED CONTROLLER AND TYPE V CABINET

NOTES:

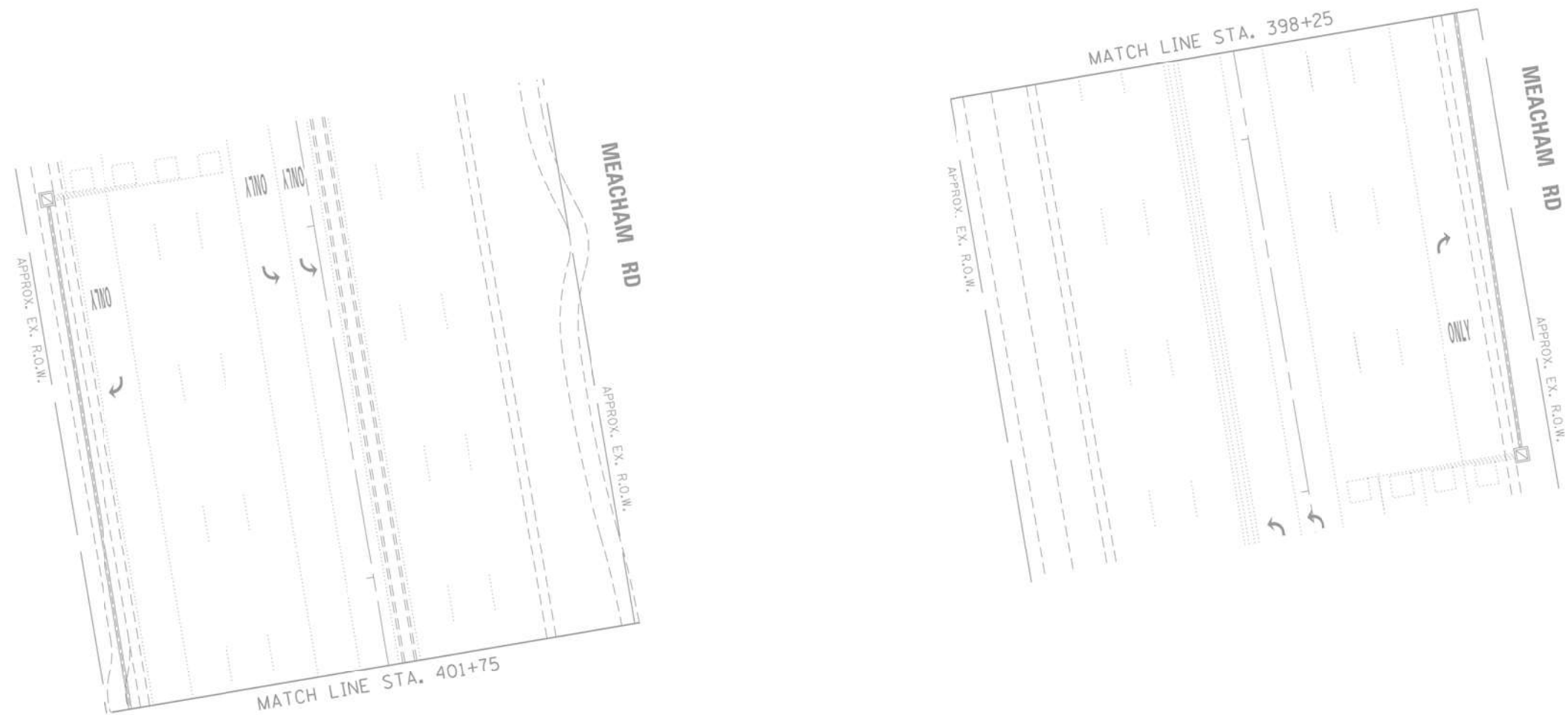
- 1. CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 3230
IDOT CENTRACS
FORMER ECON 84

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-1001.CM40 Contracts Phase 2\CADD\Sheets\024_Meacham Rd at IL Rte 72_INT.dgn

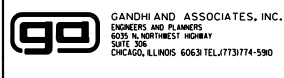
<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: 773.774.590</p>	USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	LOCATION #4 MEACHAM RD AT IL RTE 72 (HIGGINS RD) INTERSECTION PLAN SHEET 1			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
								FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 3230
IDOT CENTRACS
FORMER ECON 84

K:\PROJECTS\Projects 2022\22-ESR-502-1\DOT.CM40 Contracts Phase 2\CADD\Sheets\025-Meacham Rd at IL Rte 72.INT.2.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE\$		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

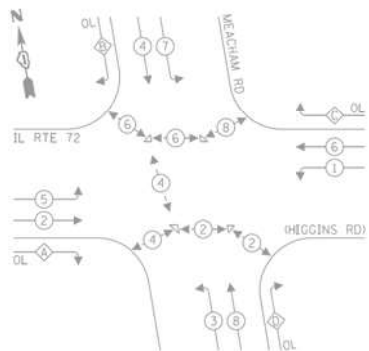
LOCATION #4			
MEACHAM RD AT IL RTE 72 (HIGGINS RD) INTERSECTION PLAN			
SHEET 2			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	28
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTIBLE POWER SUPPLY	EACH	1

EXISTING AND PROPOSED CONTROLLER SEQUENCE

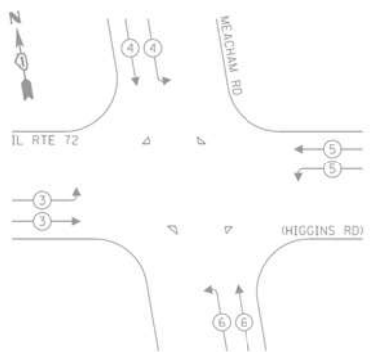


LEGEND:
 ← ● ← PROTECTED PHASE
 ← ● ← PROTECTED/PERMITTED PHASE
 ← ● ← PEDESTRIAN PHASE
 ◊ ← OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



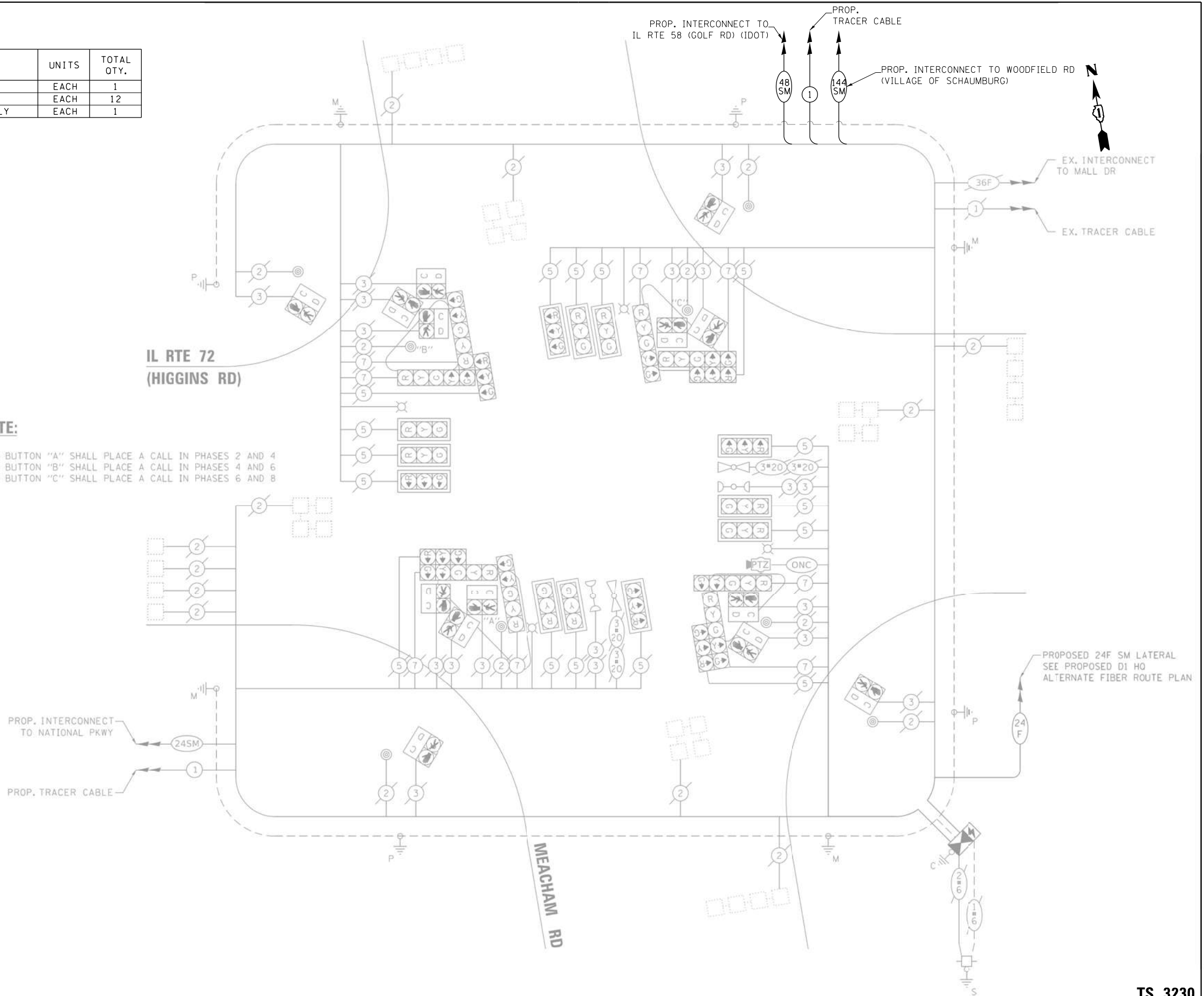
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	24	11	50	132.0
(YELLOW)	24	20	5	24.0
(GREEN)	24	12	45	129.6
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	14	20	100	280.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				438.9

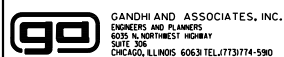
ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER CT
 SCHAUMBURG, IL 60196
 ENERGY SUPPLY: CONTACT: DAVE SCHACHT
 PHONE: (630) 437-2129
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

NOTE:

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



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\026-Meacham Rd at IL Rte 72_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION #4
 MEACHAM RD AT IL RTE 72 (HIGGINS RD) CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	29
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

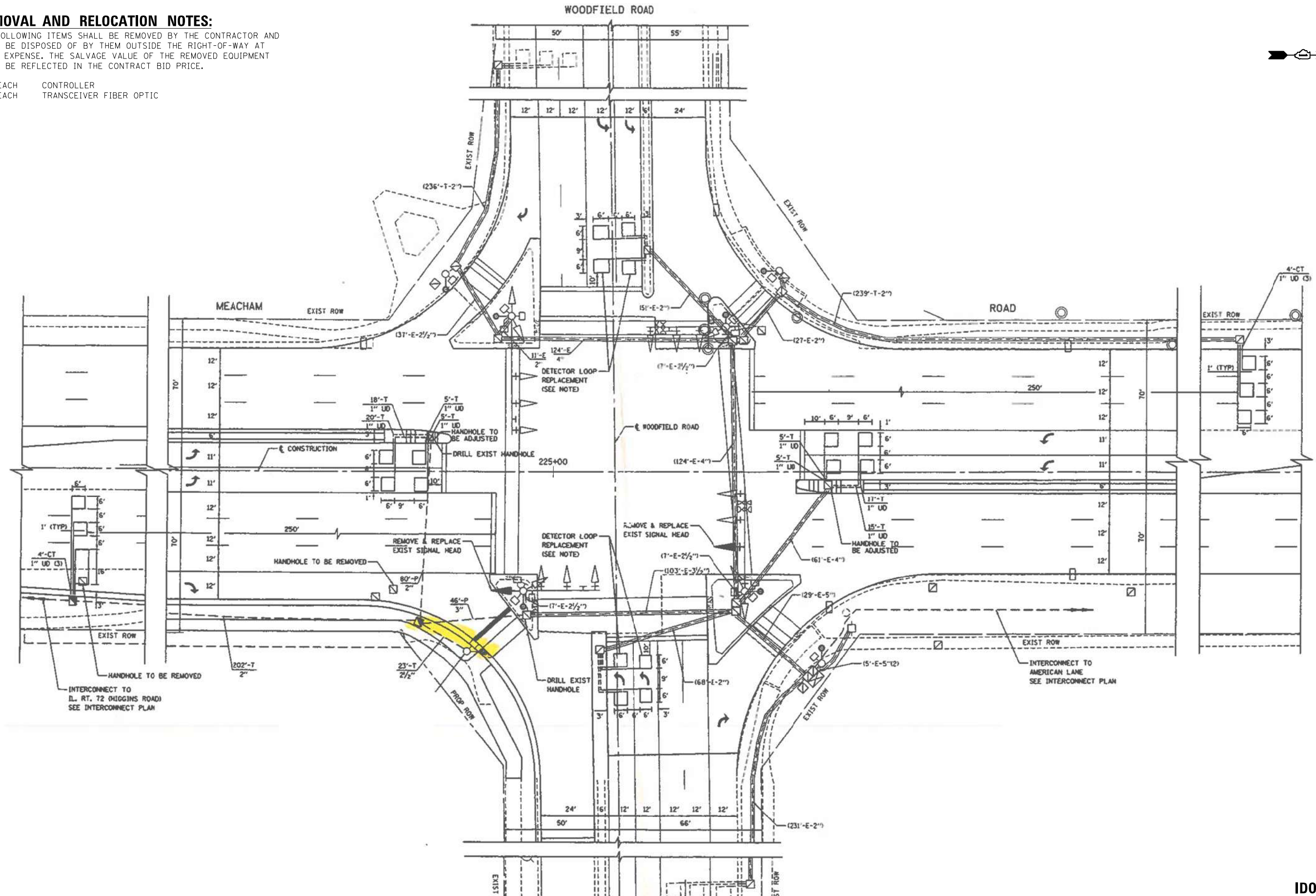
**TS 3230
 IDOT CENTRACS
 FORMER ECON 84**

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -	
CHECKED - MS	REVISED -	
DATE - 10/31/2022	REVISED -	
PLOT SCALE = 40.0000' / 1" IN.		
PLOT DATE = \$DATE\$		

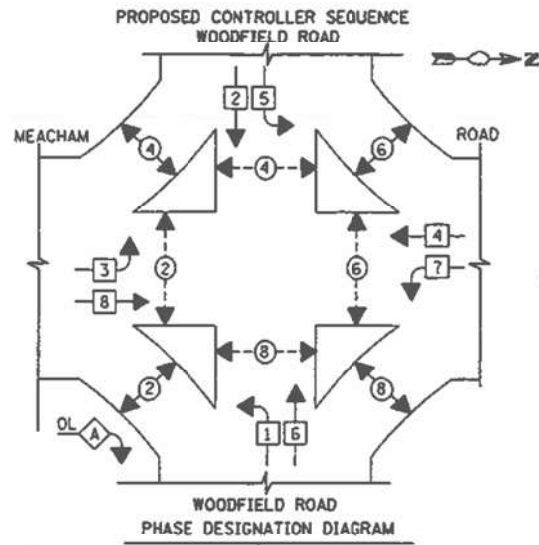
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #5
MEACHAM RD AT WOODFIELD RD INTERSECTION PLAN

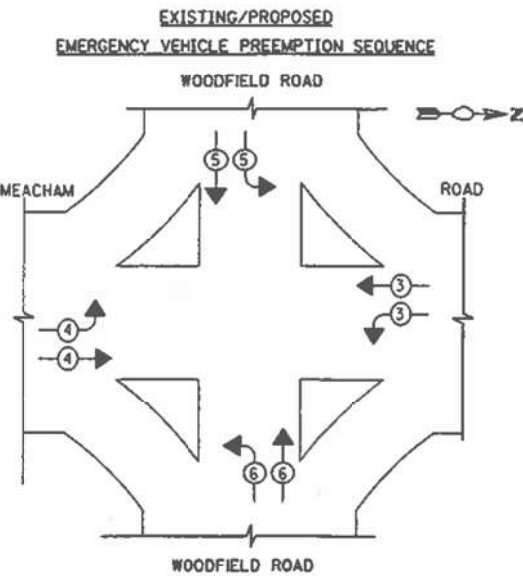
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	30
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 22
IDOT CENTRACS

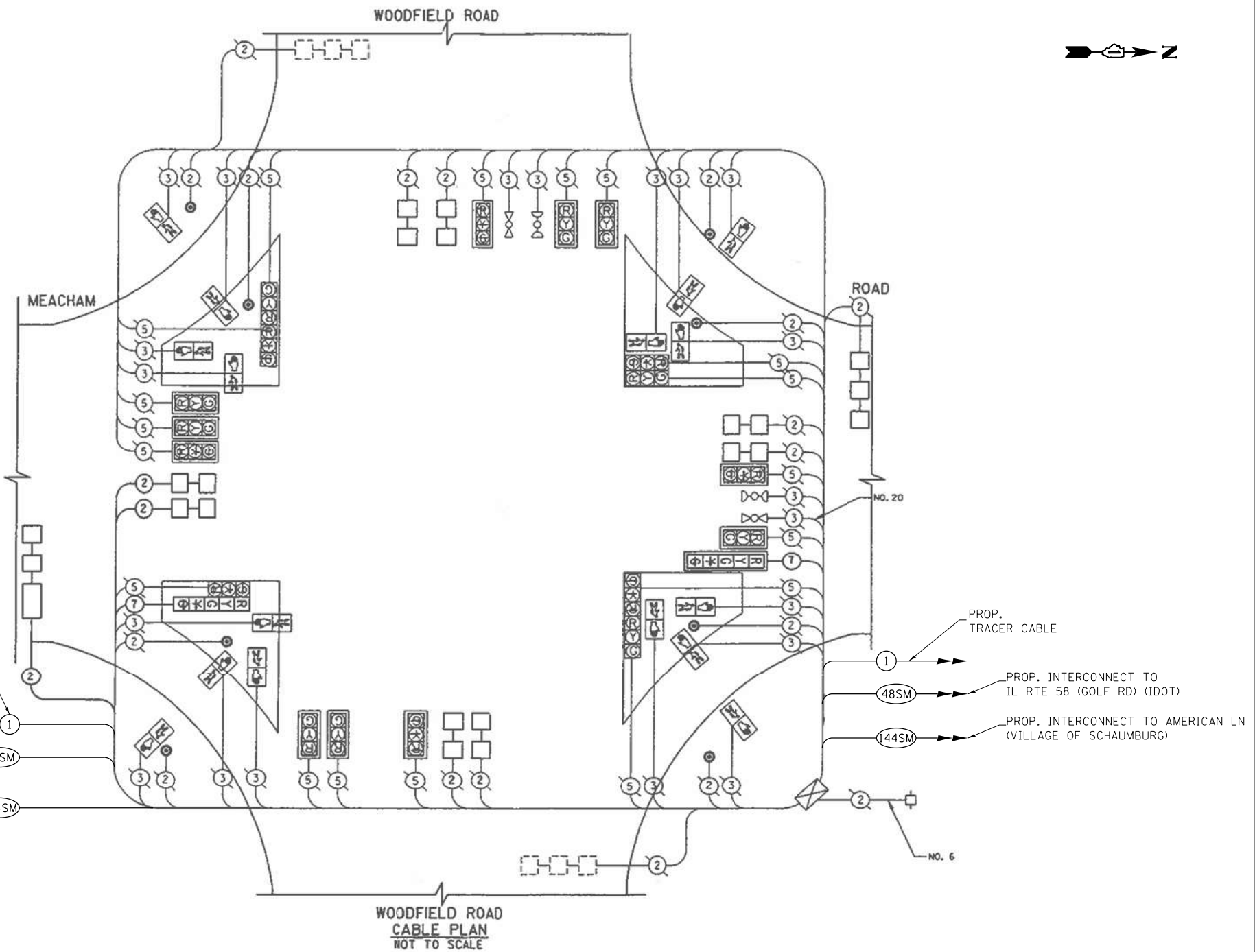


OVERLAP LETTER A
 PERMISSIVE PHASE 0
 PROTECTED PHASE 1



EXISTING EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	↔	↔	↔	↔

PROP. INTERCONNECT TO IL RTE 72 (HIGGINS RD) (IDOT) 48SM
 PROP. INTERCONNECT TO IL RTE 72 (HIGGINS RD) (VILLAGE OF SCHAUMBURG) 144SM
 PROP. INTERCONNECT TO IL RTE 58 (GOLF RD) (IDOT) 48SM
 PROP. INTERCONNECT TO AMERICAN LN (VILLAGE OF SCHAUMBURG) 144SM



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE			TOTAL WATTAGE
		INCAND.	LED	OPERATION	
SIGNAL (RED) (YELLOW)	24	135	17	0.50	1620
(GREEN)	24	135	25	0.25	1620
ARROW	24	135	15	0.25	1620
PED SIGNAL	16	90	12	0.10	3375
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0	252	100	0.05	0
FLASHER ENERGY COSTS TO: IDOT TOTAL =					9,775

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
LAYER III (NETWORK) SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

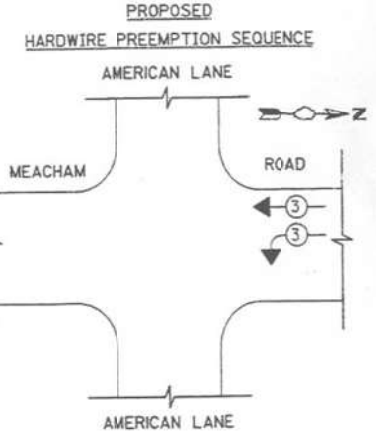
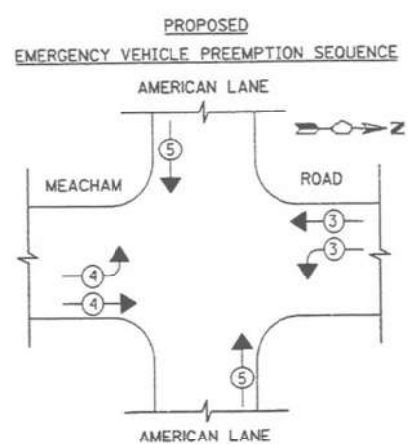
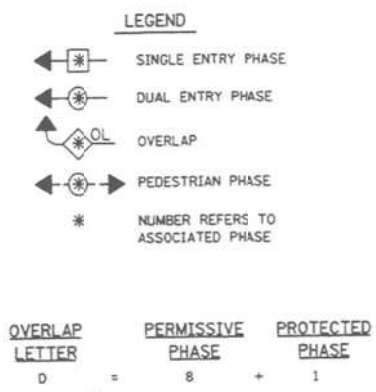
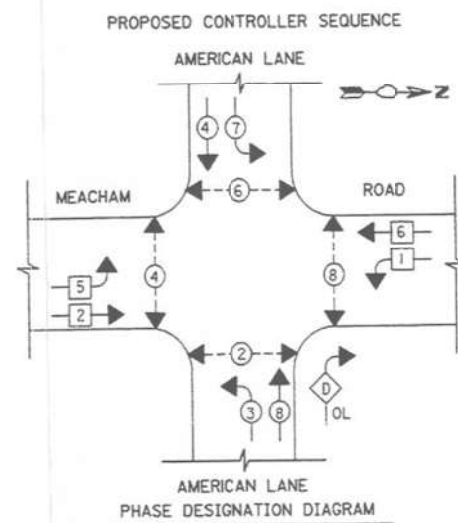
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #5 MEACHAM RD AT WOODFIELD RD CABLE PLAN
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	31
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

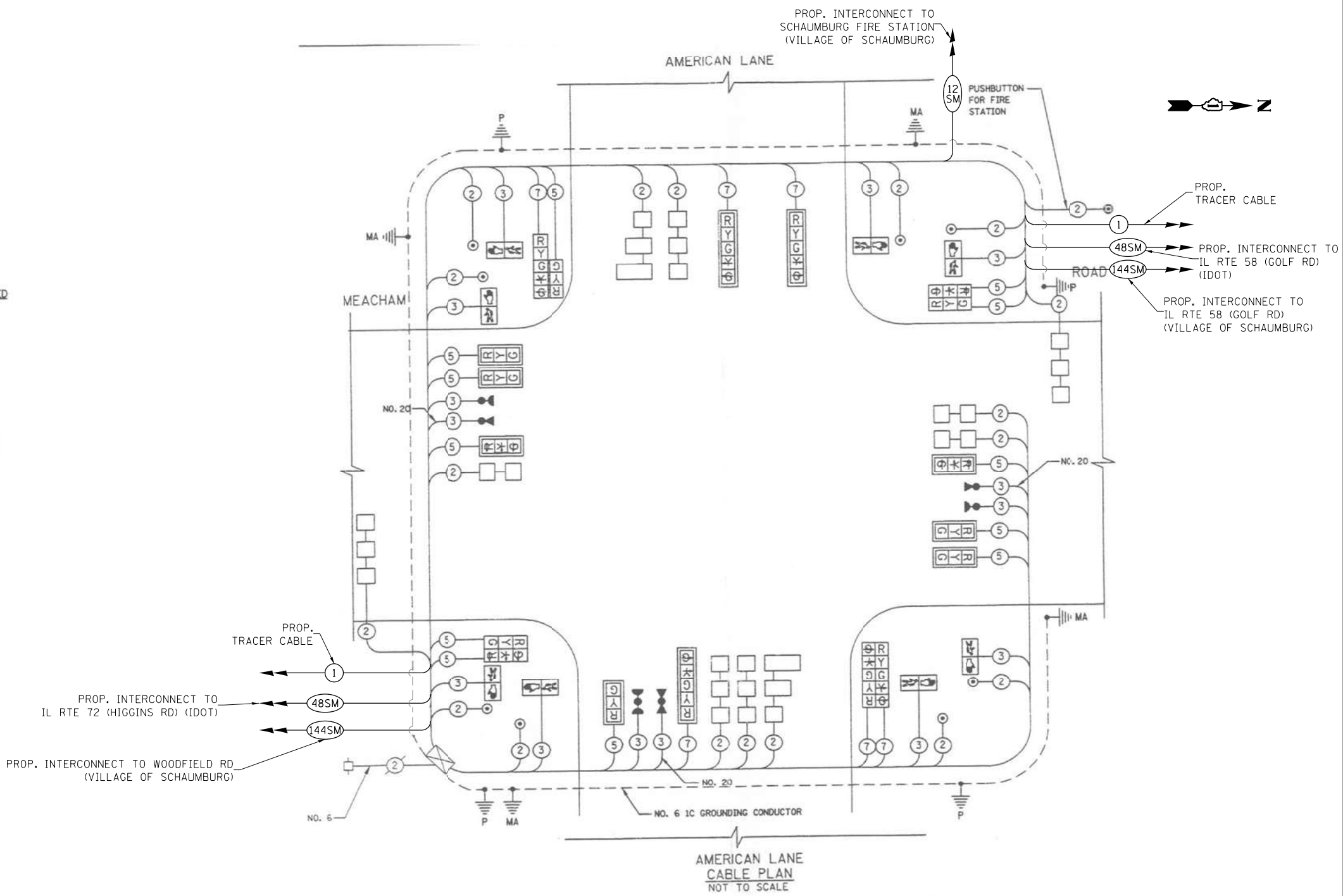
TS 22 IDOT CENTRACS

K:\PROJECTS\Projects 2022\22-ESR-502-IDOT-CMAD-Contracts Phase 2\CADD\Sheets\028-Meacham Rd at Woodfield Rd.CADD.dgn



EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	→	↑

EMERGENCY VEHICLE PREEMPTOR	3		
MOVEMENT	←		



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

TYPE	NO. LAMPS	INCAND.	LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	1620
(YELLOW)	12	135	25	0.25	1620
(GREEN)	12	135	15	0.25	1620
ARROW	24	135	12	0.10	3240
RED SIGNAL	8	90	25	1.00	720
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0	252		0.05	0
FLASHER					
ENERGY COSTS TO: VILLAGE OF SCHAUMBURG					TOTAL = 8420
					3412

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CMAD-Contracts\Phase 2\CADD\Sheets\030-Meacham Rd at American Ln.Caddgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #6 MEACHAM RD AT AMERICAN LN CABLE PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	33
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 10 IDOT CENTRACS FORMER ECON 78

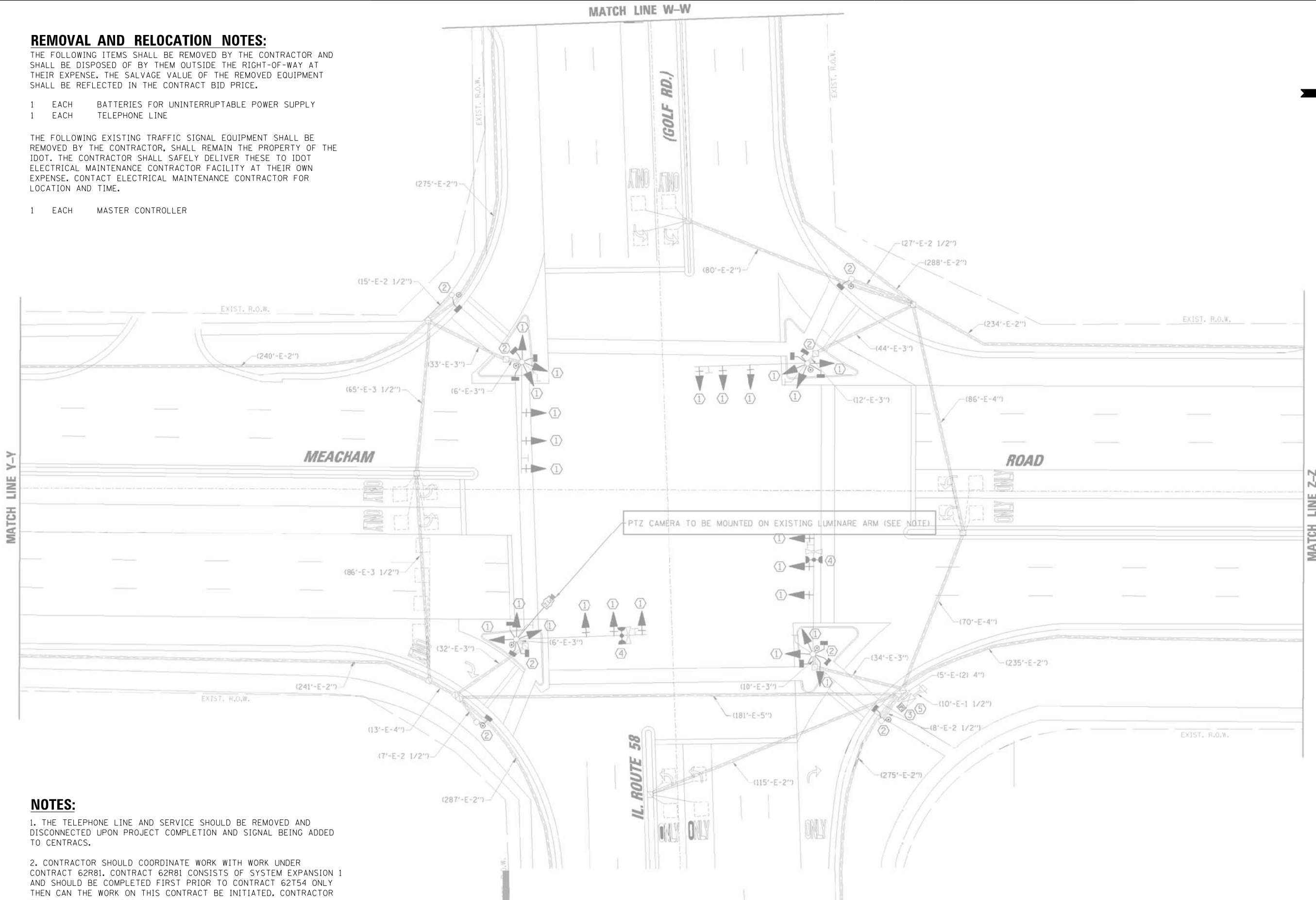
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY
- 1 EACH TELEPHONE LINE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH MASTER CONTROLLER



NOTES:

1. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO CENTRACS.
2. CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

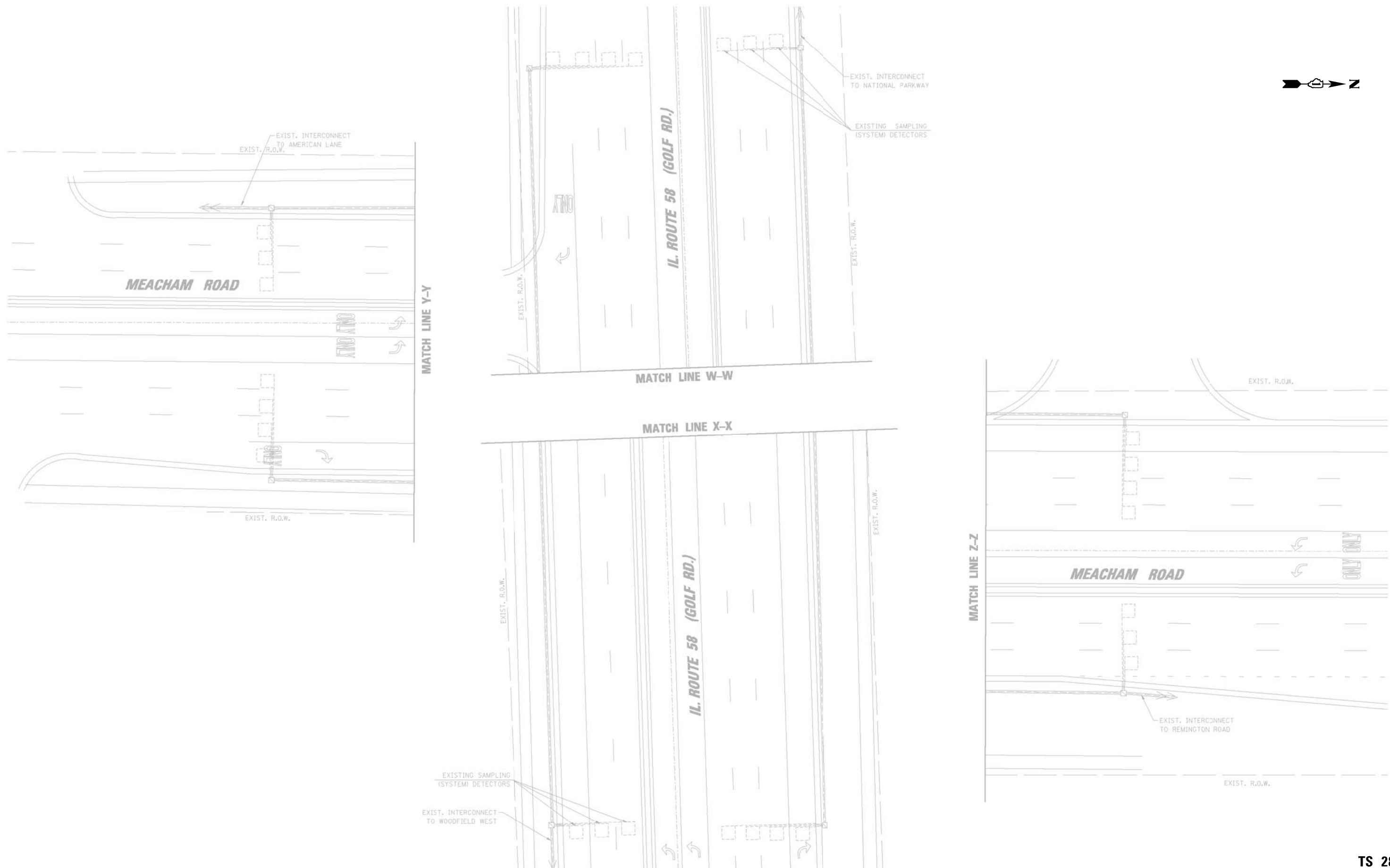
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 2810
IDOT CENTRACS
FORMER ECON 78**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-1001.CM40 Contracts Phase 2\CADD\Sheets\031_Meacham Rd at Il. Rte 58_INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 206 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">LOCATION #7 MEACHAM RD AT IL RTE 58 (GOLF RD) INTERSECTION PLAN SHEET 1</p>				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISIED -		REVISIED -	SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISIED -	REVISIED -						CONTRACT NO. 62T54				
										FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\ICODD_Sheets\032-Meacham Rd at IL Rte 58.INT.2.dgn



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

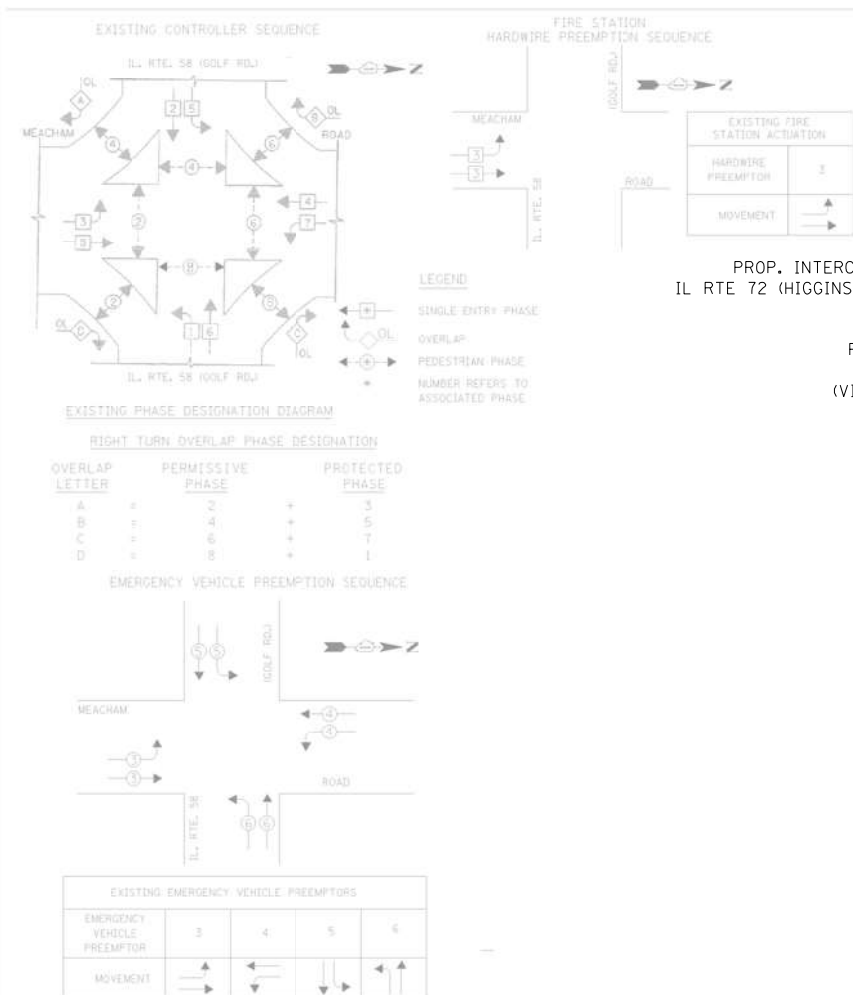
**TS 2810
IDOT CENTRACS
FORMER ECON 78**

	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER*	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #7 MEACHAM RD AT IL RTE 58 (GOLF RD) INTERSECTION PLAN SHEET 2				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EA, AV	CHECKED - MS	REVISED -		PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	VAR	2023 TRAFFIC 02	VARIABLES	306	35	CONTRACT NO. 62T54	
PLOT DATE = \$DATE*						SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			

SCHEDULE OF QUANTITIES

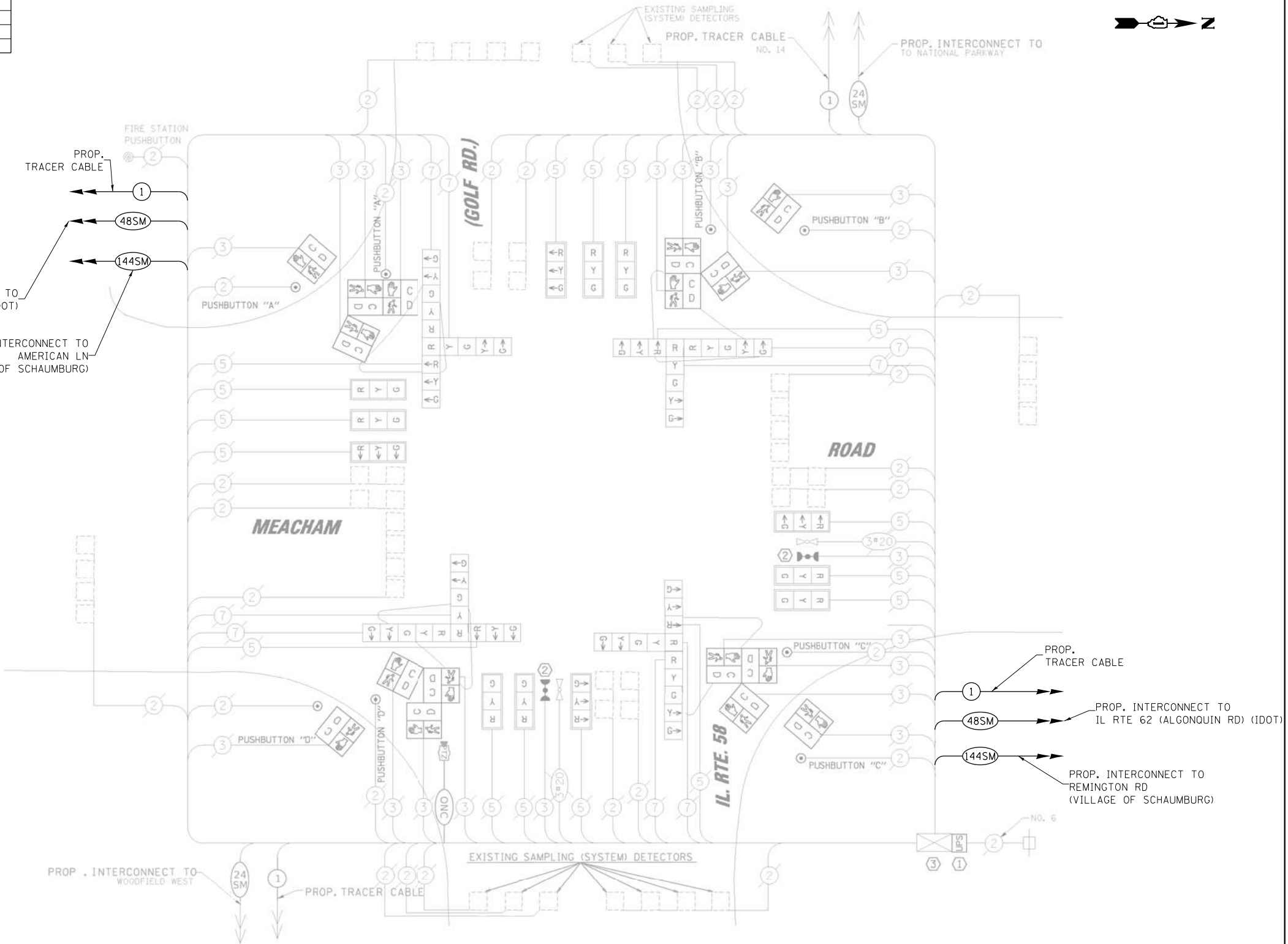
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
TERMINATE FIBER IN CABINET	EACH	24
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.



PROP. INTERCONNECT TO IL RTE 72 (HIGGINS RD) (IDOT)

PROP. INTERCONNECT TO AMERICAN LN (VILLAGE OF SCHAUMBURG)



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE	TOTAL WATTAGE
		X INCAND. LED X % OPERATION	
SIGNAL (RED)	24	17 0.50	204.00
(YELLOW)	24	25 0.25	150.00
(GREEN)	24	15 0.25	90.00
ARROW	16	12 0.10	19.20
PED. SIGNAL	16	25 1.00	400.00
CONTROLLER	1	100 1.00	100.00
ILLUM. SIGN	-	252 0.05	-
VIDEO SYSTEM	-	150 1.00	-
FLASHER		0.50	
ENERGY COSTS TO:		TOTAL =	963.20

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARK GLOECK
 PHONE: (630) 691-4529
 COMPANY: COMED

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\033-Meacham Rd at IL Rte 58_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION #7
 MEACHAM RD AT IL RTE 58 (GOLF RD) CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	36
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

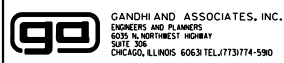
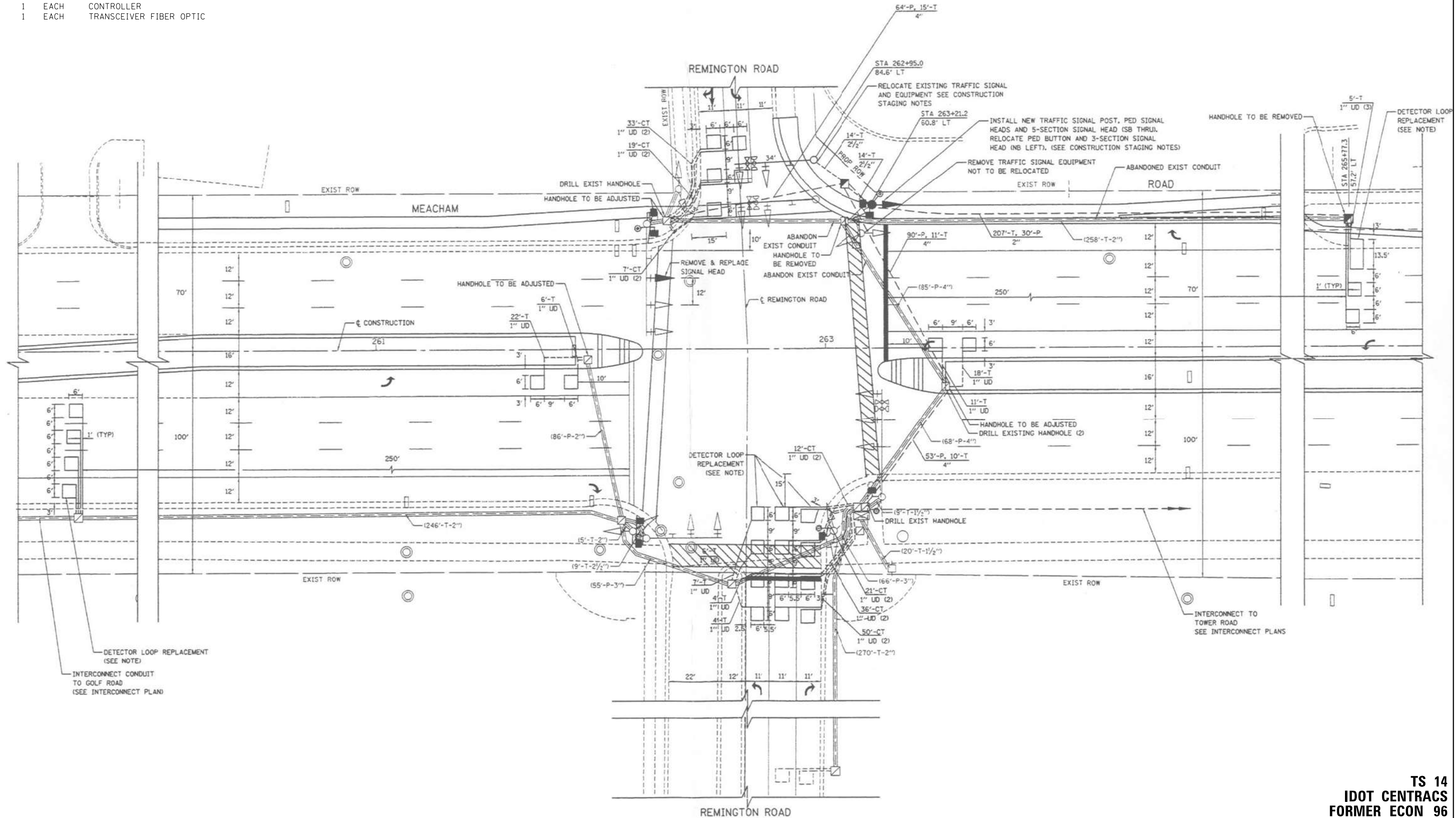
TS 2810
 IDOT CENTRACS
 FORMER ECON 78

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -	
CHECKED - MS	REVISED -	
DATE - 10/31/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

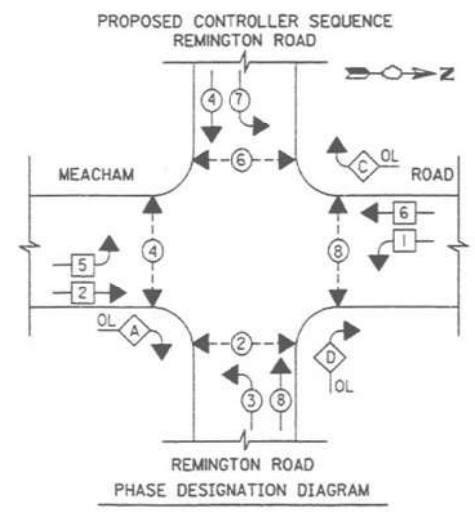
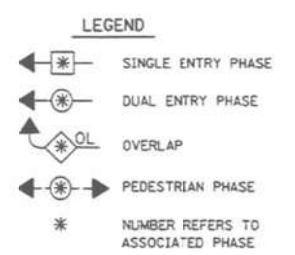
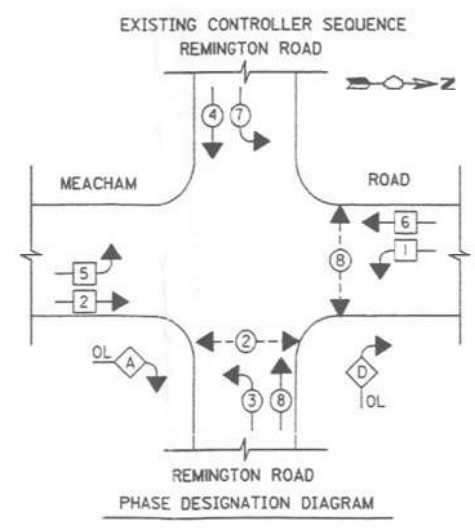
LOCATION #8
MEACHAM RD AT REMINGTON RD INTERSECTION PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

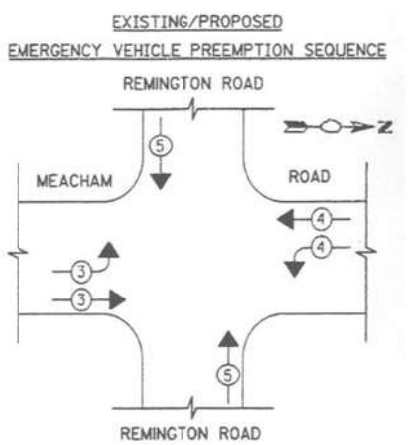
TS 14
IDOT CENTRACS
FORMER ECON 96

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	37
CONTRACT NO. 62T54			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-562-IDOT-CMAD-Contracts Phase 2\CADD\Sheets\035-Meacham Rd at Remington Rd.dgn
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OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7
D	= 8	+ 1



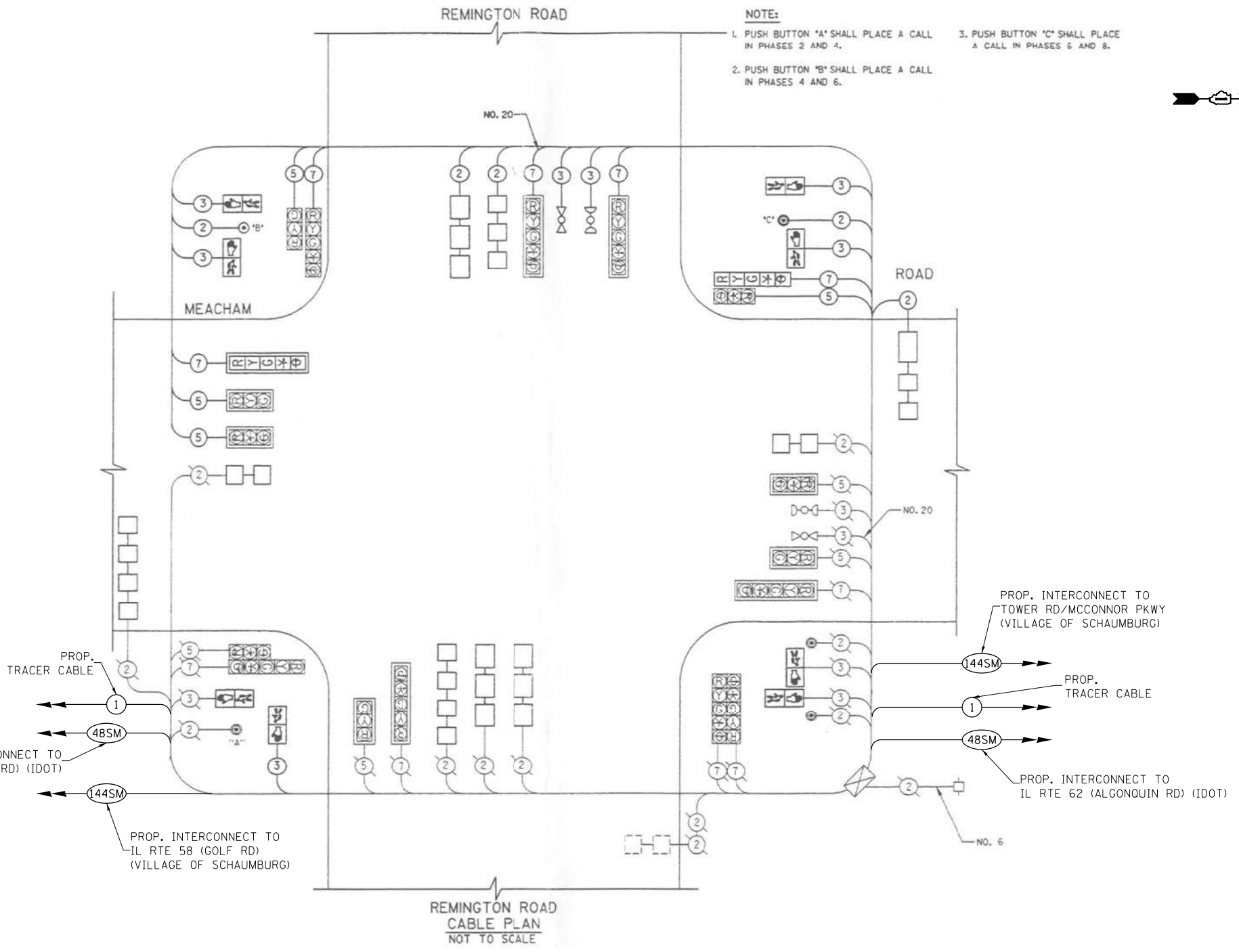
EXISTING / PROPOSED
EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↕

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	INCAND.	LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	135	17	0.50	1890
(YELLOW)	14	135	25	0.25	1890
(GREEN)	14	135	15	0.25	1890
ARROW	32	135	12	0.10	4320
PED SIGNAL	8	90	25	1.00	720
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0	252		0.05	0
FLASHER					
ENERGY COSTS TO: VILLAGE OF SCHAUMBURG					TOTAL = 10,810

ENERGY SUPPLY CONTACT: FRANK BLACKER
PHONE: (847)-870-2124
COMPANY: COM ED



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #8
MEACHAM RD AT REMINGTON RD CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	38
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

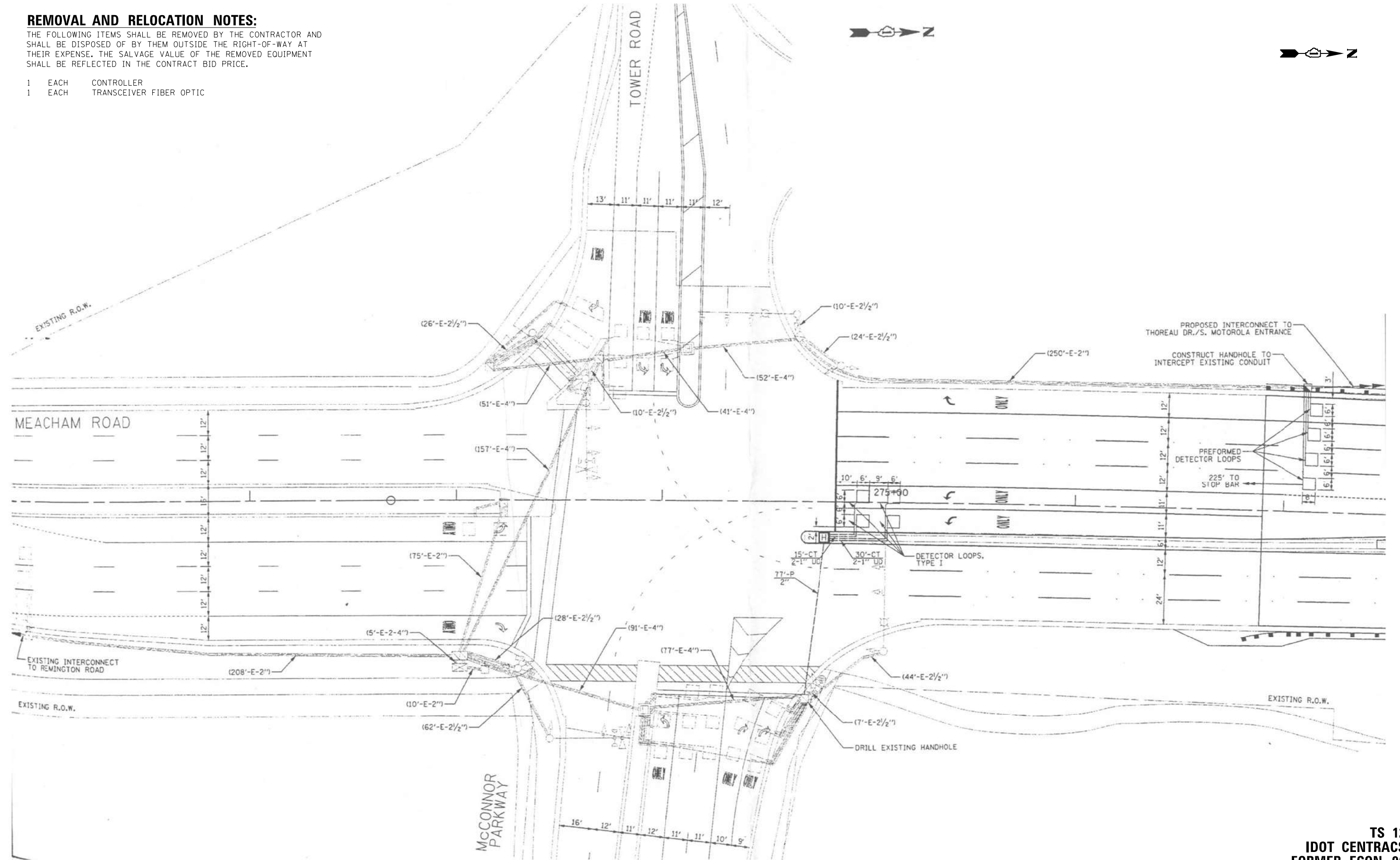
TS 14
IDOT CENTRACS
FORMER ECON 96

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\036-Meacham Rd at Tower Rd.INT.dgn

GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

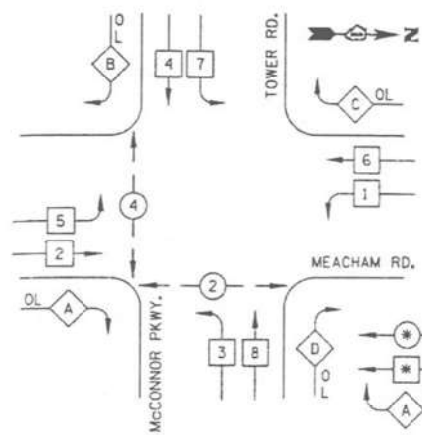
**LOCATION #9
MEACHAM RD AT TOWER RD/MCCONNOR RD INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	39
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 12
IDOT CENTRACS
FORMER ECON 96**

EXISTING AND PROPOSED CONTROLLER SEQUENCE



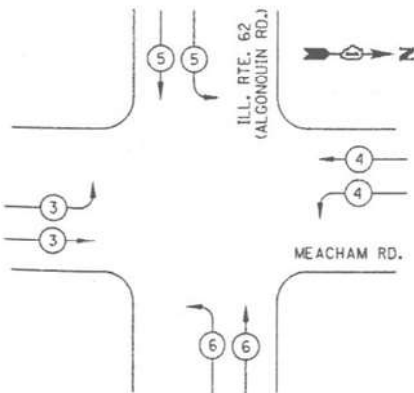
LEGEND
 * DUAL ENTRY PHASE
 * SINGLE ENTRY PHASE
 OL OVERLAP
 * PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

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

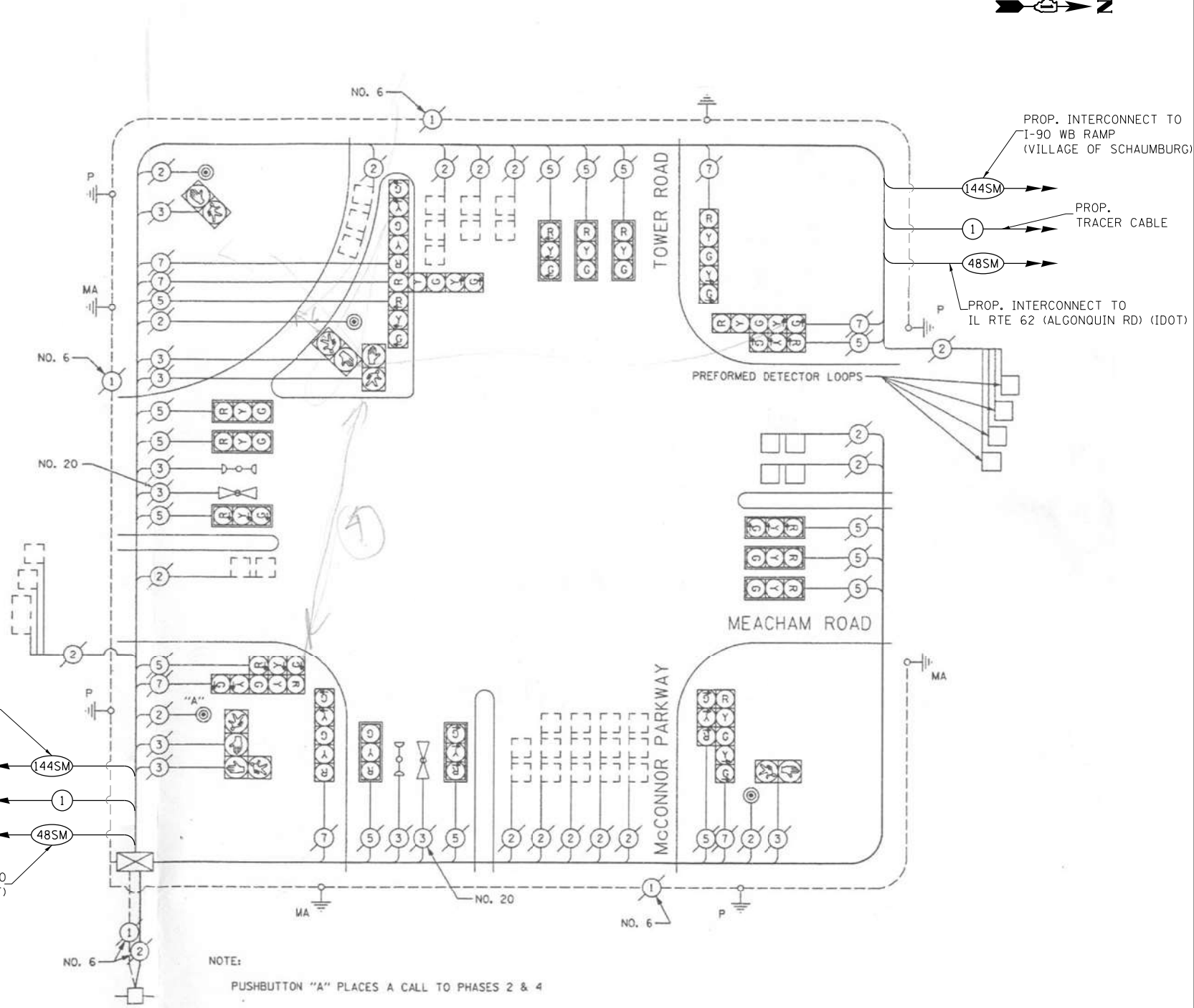
EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



NOTE: PUSHBUTTON "A" PLACES A CALL TO PHASES 2 & 4

NOT TO SCALE
CABLE PLAN

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD_Sheets\037-Meacham Rd at Tower Rd_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
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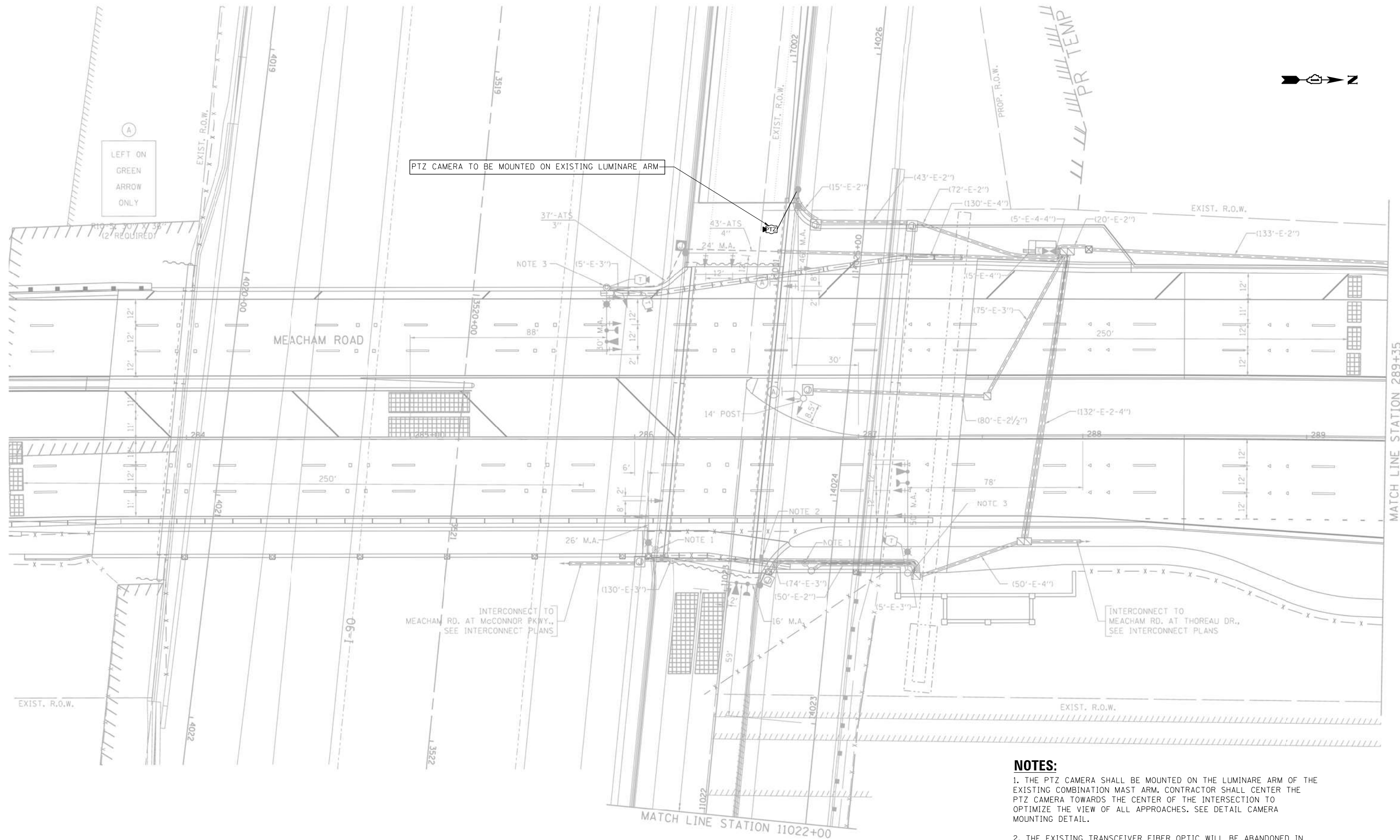
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #9
MEACHAM RD AT TOWER RD/MCCONNOR PKWY CABLE PLAN**
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	40
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 12
IDOT CENTRACS
FORMER ECON 96**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40_Contracts Phase 2\CADD_Sheets\038-Meacham Rd at I-90 WB Ramp_INT.dgn



(A)
 LEFT ON
 GREEN
 ARROW
 ONLY

PTZ CAMERA TO BE MOUNTED ON EXISTING LUMINARE ARM

NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE LUMINARE ARM OF THE EXISTING COMBINATION MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.
2. THE EXISTING TRANSCEIVER FIBER OPTIC WILL BE ABANDONED IN CABINET.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 11
IDOT CENTRACS
FORMER ECON 96



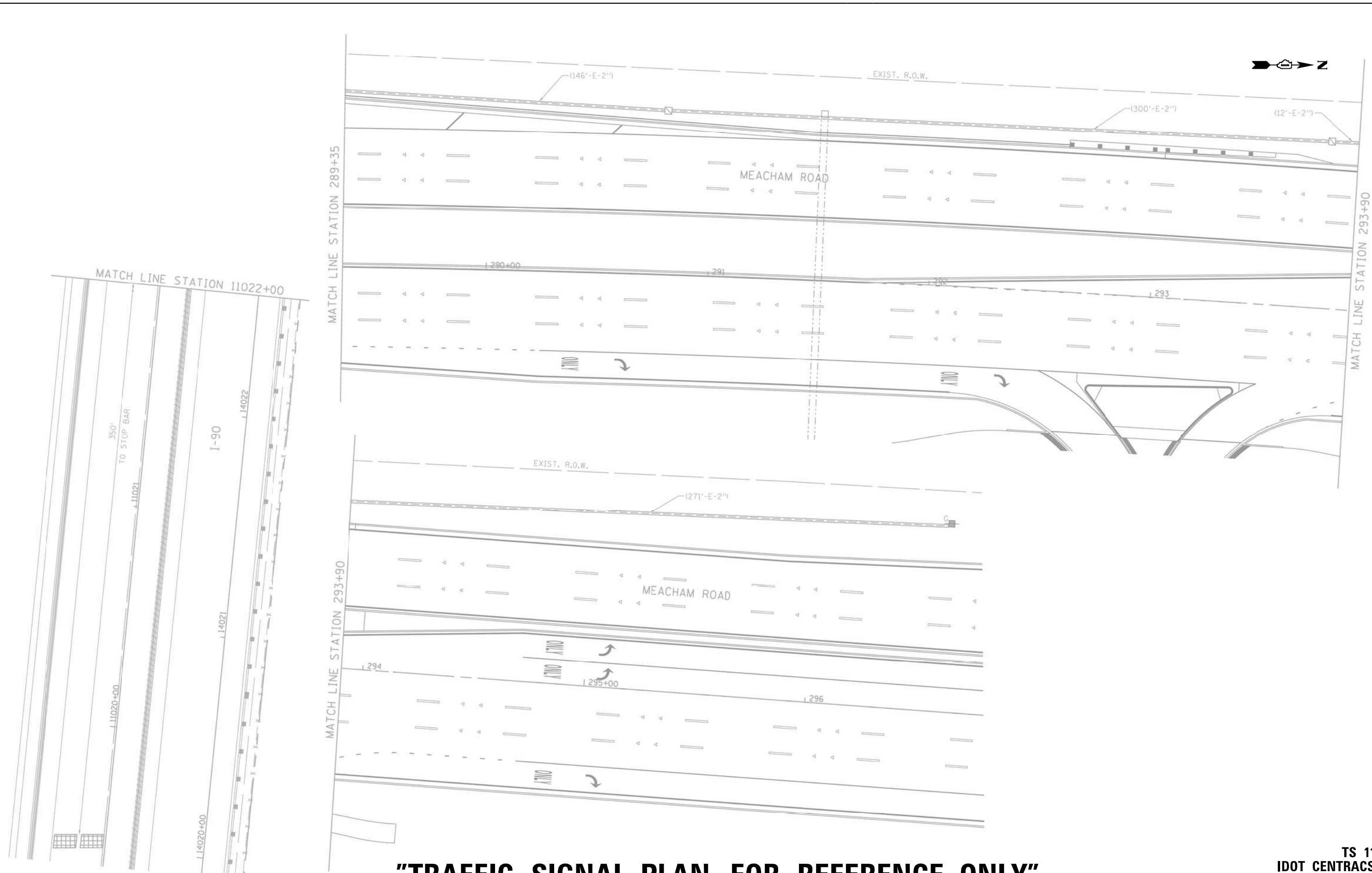
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	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION #10
MEACHAM RD AT I-90 WB EXIT RAMP INTERSECTION PLAN SHEET 1
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	41
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40_Contracts Phase 2\CADD_Sheets\039_Meacham Rd at I-90 WB Ramp_INT_2.dgn



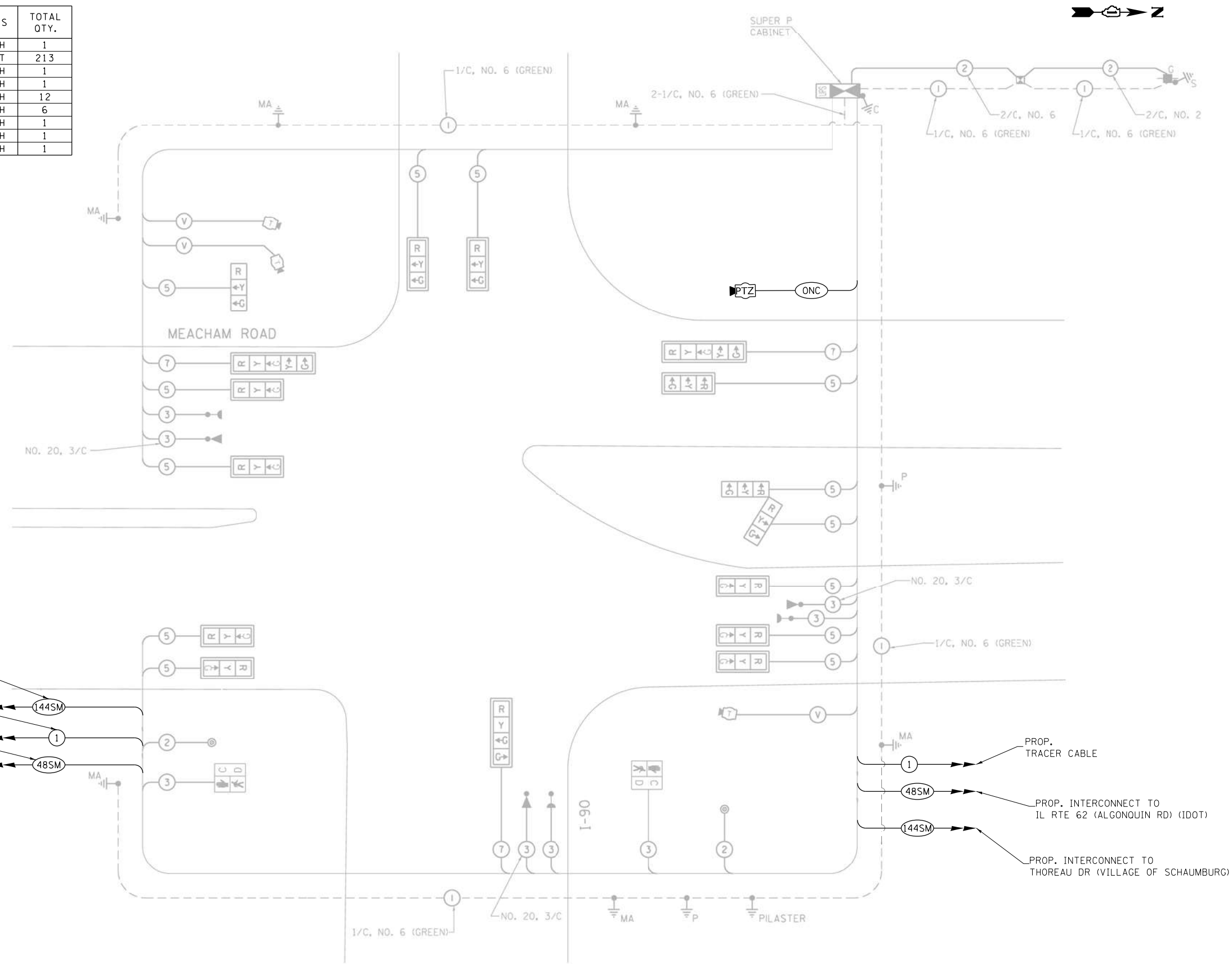
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 11
IDOT CENTRACS
FORMER ECON 96

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	LOCATION #10 MEACHAM RD AT I-90 WB EXIT RAMP INTERSECTION PLAN SHEET 2				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	VAR	2023 TRAFFIC 02	ILLINOIS	306	42
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -											CONTRACT NO. 62T54	FED. ROAD DIST. NO.	ILLINOIS

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	213
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



CABLE PLAN
(NOT TO SCALE)

PROP. INTERCONNECT TO TOWER RD (VILLAGE OF SCHAUMBURG) → 144SM

PROP. TRACER CABLE → 1

PROP. INTERCONNECT TO IL RTE 58 (GOLF RD) (IDOT) → 48SM

PROP. TRACER CABLE → 1

PROP. INTERCONNECT TO IL RTE 62 (ALGONQUIN RD) (IDOT) → 48SM

PROP. INTERCONNECT TO THOREAU DR (VILLAGE OF SCHAUMBURG) → 144SM

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE		OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	16		17	0.50	136
(YELLOW)	16		25	0.25	100
(GREEN)	17		15	0.25	63.75
ARROW	4		12	0.10	4.8
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM				1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	454.55

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: ELEANOR SARALLO
PHONE: (630) 424-5124
COMPANY: COMMONWEALTH EDISON

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Centrac-Phase 2\CADD\Sheets\040-Meacham Rd at I-90 WB Ramp_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISOR -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISOR -
	DATE - 10/31/2022	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #10
MEACHAM RD AT I-90 WB EXIT RAMP CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	43
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

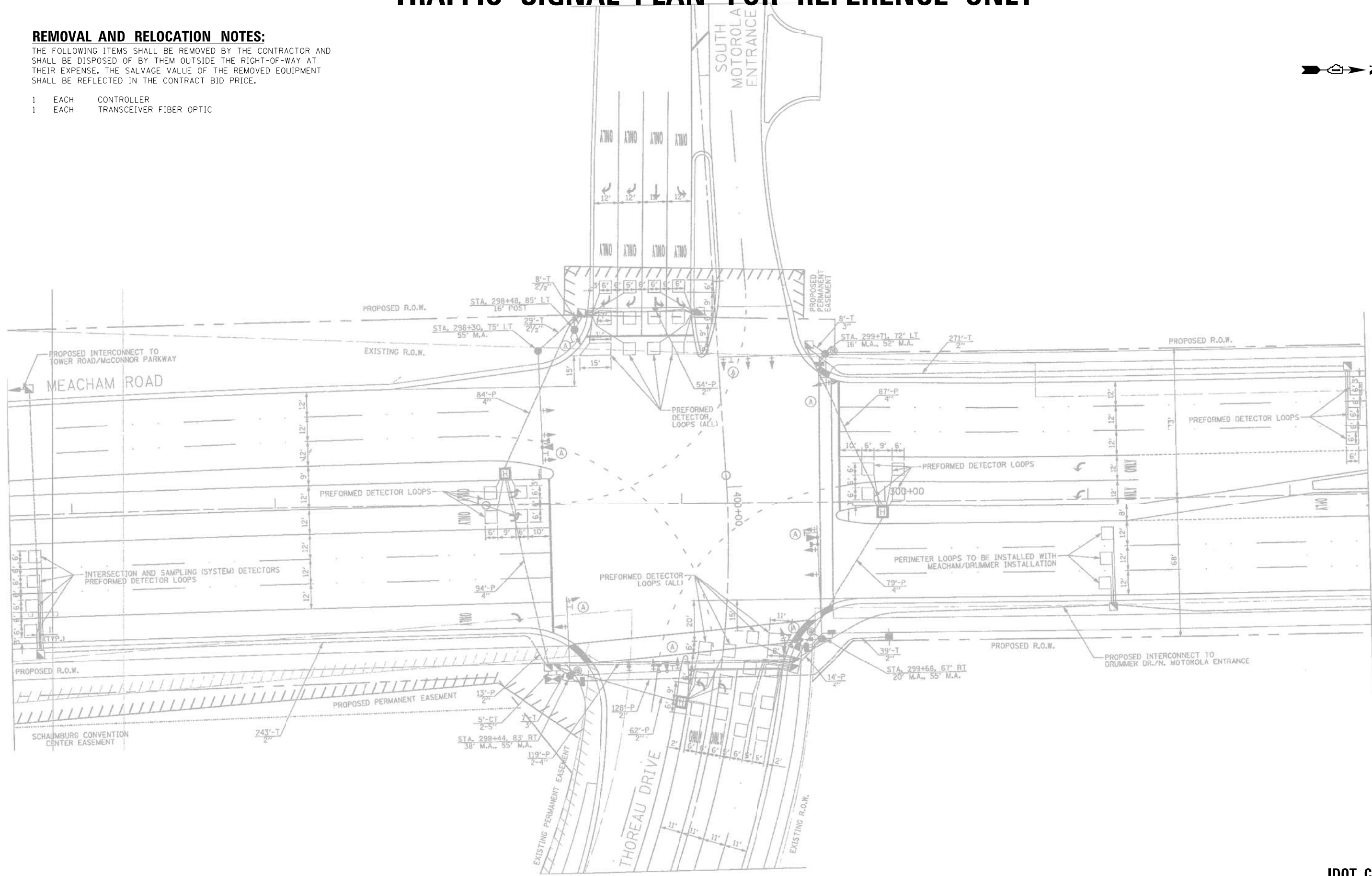
TS 11
IDOT CENTRACS
FORMER ECON 96

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\041_Meacham Rd at Thoreau Dr_INT.dgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: 773.774.590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / 1" =	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

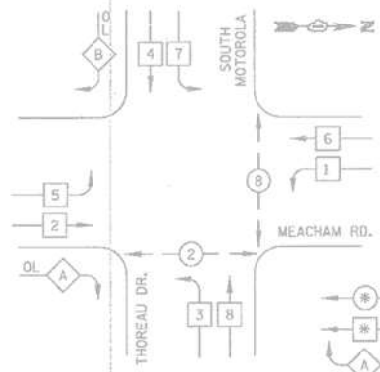
**LOCATION #11
MEACHAM RD AT THOREAU DR/ZURICH WAY INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	44
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 15
IDOT CENTRACS
FORMER ECON 96**

PROPOSED CONTROLLER SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION

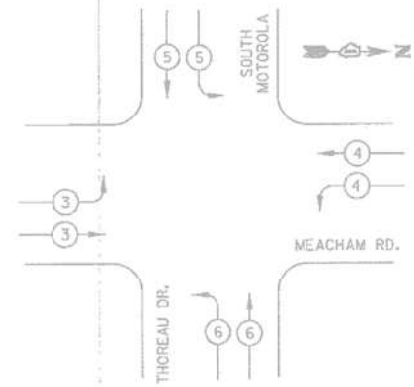
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	8
B	4	5

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	[Symbol]	[Symbol]	[Symbol]	[Symbol]

LD.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (BFD)	21		17	0.50	179
(YELLOW)	13		25	0.25	81
(GREEN)	13		15	0.25	49
ARROW	24		12	0.10	29
PED SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					538

ENERGY COSTS TO: VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60197-1899

ENERGY SUPPLY: CONTACT: SAM THOMAS
PHONE: 630-891-7118
COMPANY: COM ED

SCHEDULE OF QUANTITIES

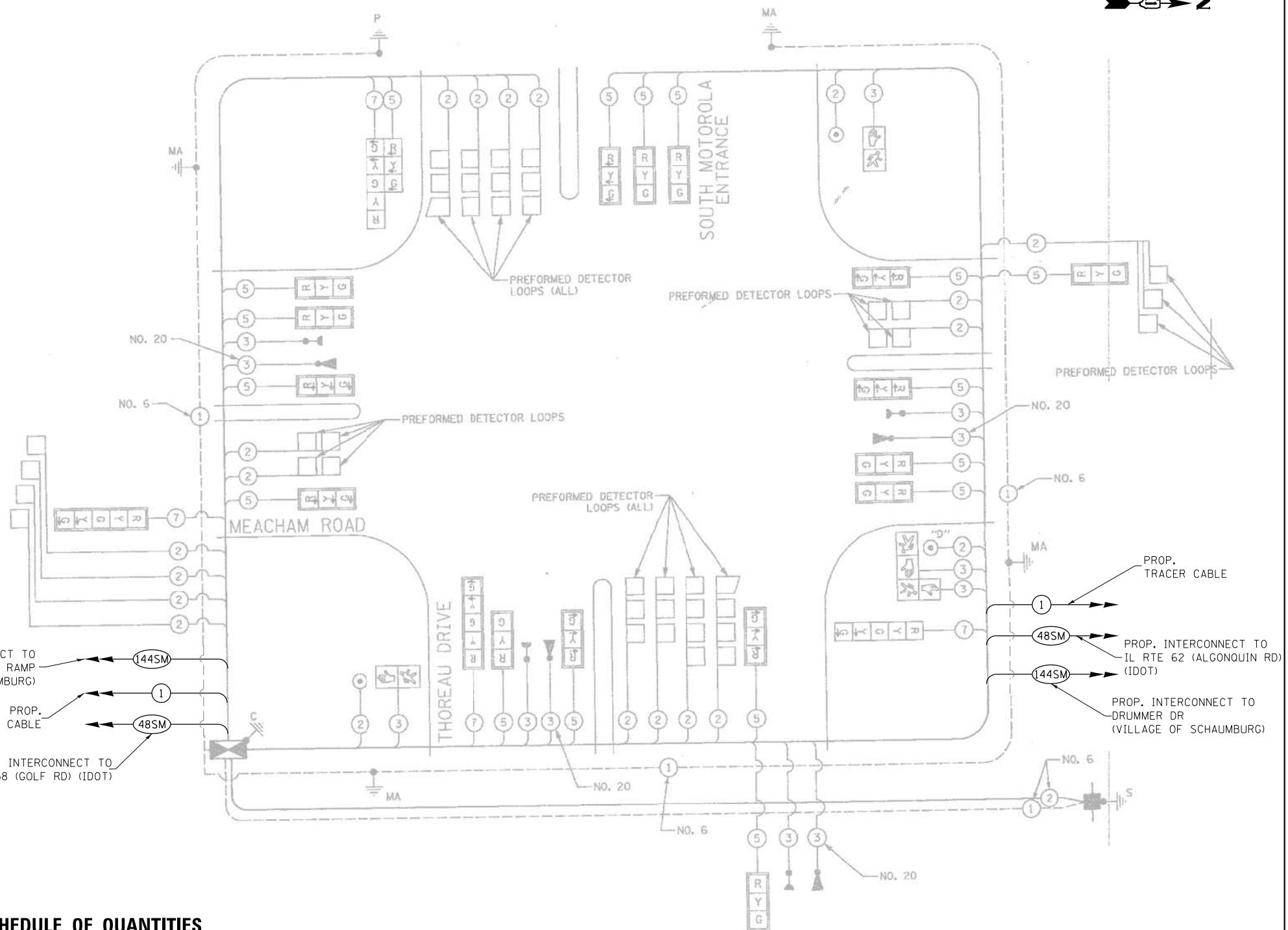
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

PROP. INTERCONNECT TO I-90 WB EXIT RAMP (VILLAGE OF SCHAUMBURG) 144SM

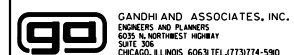
PROP. TRACER CABLE 48SM

PROP. INTERCONNECT TO IL RTE 58 (GOLF RD) (IDOT)

CABLE PLAN NOT TO SCALE



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Centrac-Phase 2\CADD\Sheets\042-Meacham Rd at Thoreau Dr-CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

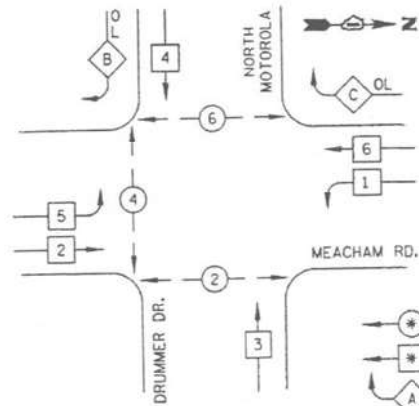
LOCATION #11
MEACHAM RD AT THOREAU DR/ZURICH WAY CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	45
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

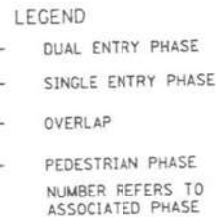
TS 15
IDOT CENTRACS
FORMER ECON 96

PROPOSED CONTROLLER SEQUENCE



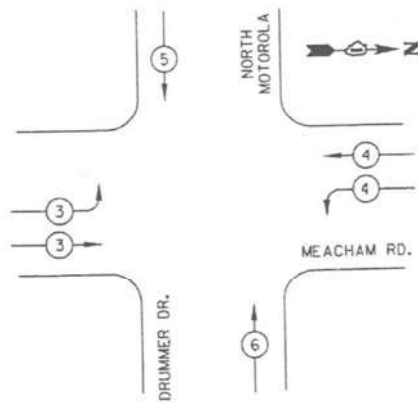
RIGHT TURN OVERLAP PHASE DESIGNATION

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



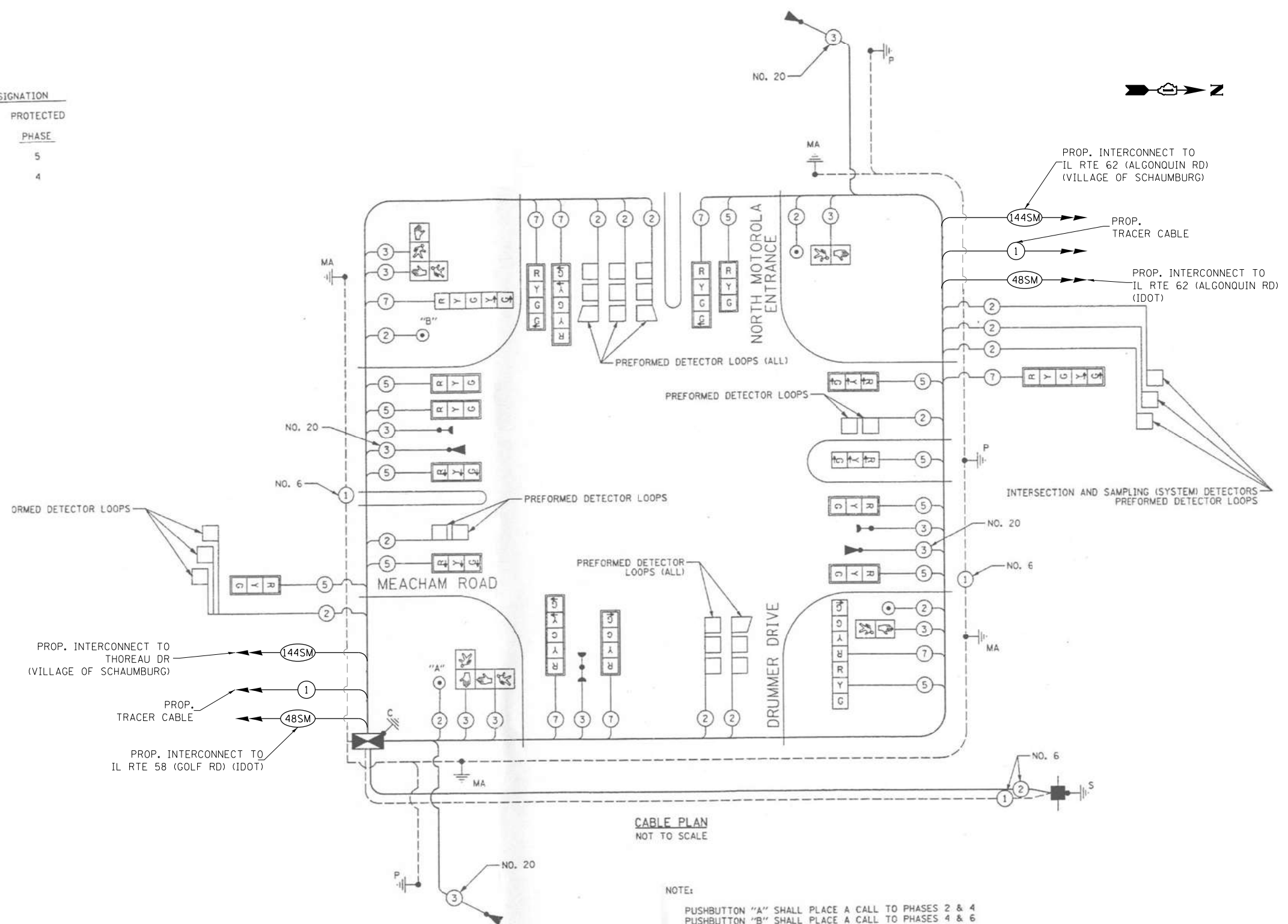
PROPOSED PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	↘	↙	↓	↑



CABLE PLAN
NOT TO SCALE

NOTE:
PUSHBUTTON "A" SHALL PLACE A CALL TO PHASES 2 & 4
PUSHBUTTON "B" SHALL PLACE A CALL TO PHASES 4 & 6

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	19	17	0.50		162
(YELLOW)	15	25	0.25		94
(GREEN)	19	15	0.25		71
ARROW	16	12	0.10		19
PED SIGNAL	6	25	1.00		150
CONTROLLER	1	100	1.00		100
FLASHER			0.50		
TOTAL =					596

ENERGY COSTS TO: VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60197-1899

ENERGY SUPPLY: CONTACT: SAM THOMAS
PHONE: 630-891-7118
COMPANY: COM ED



USER NAME = \$USER\$
DESIGNED - EA
DRAWN - EA, AV
CHECKED - MS
DATE - 10/31/2022

REVISED - 12-2-2022
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #12
MEACHAM RD AT DRUMMER DR CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

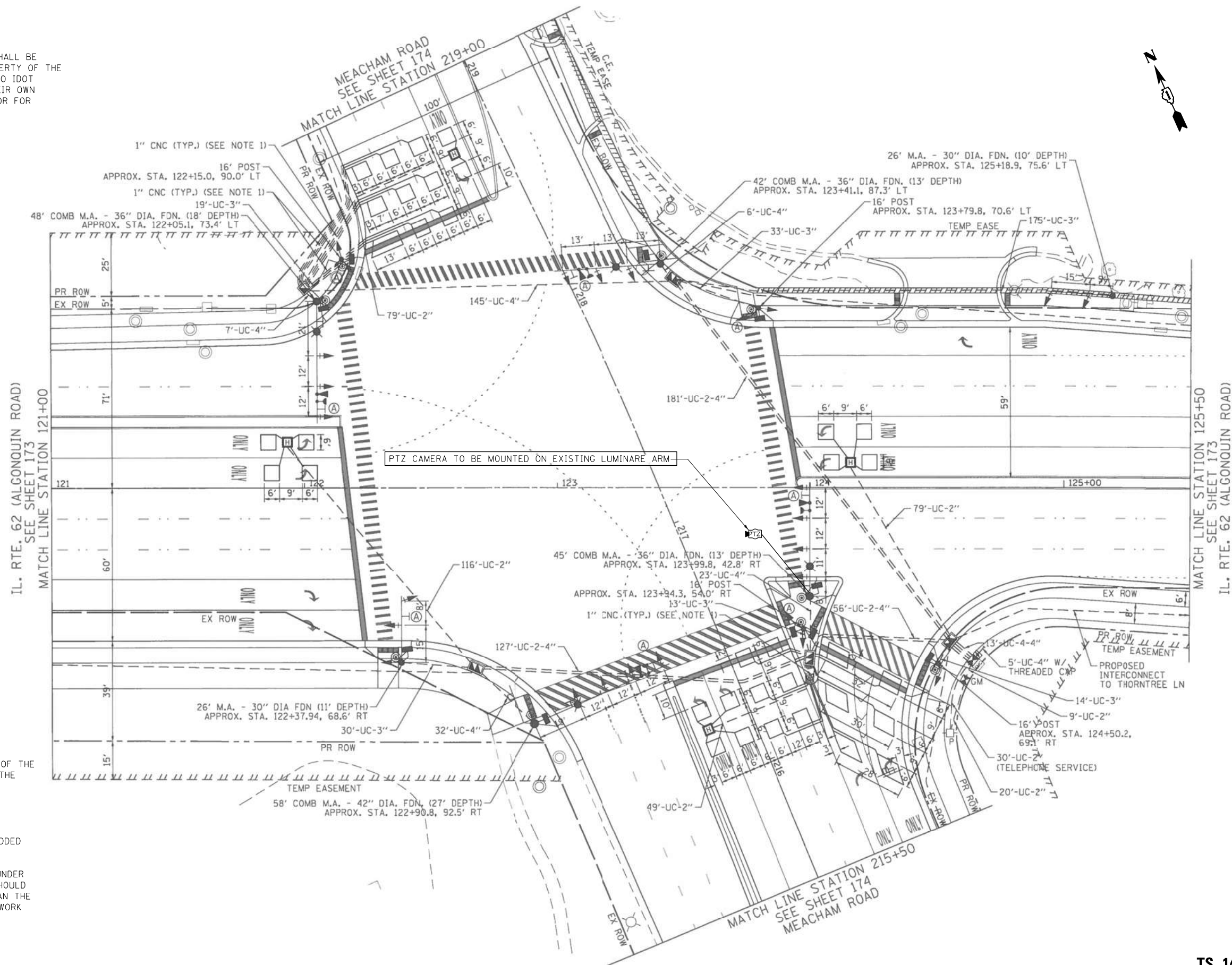
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	47
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 13
IDOT CENTRACS
FORMER ECON 96

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH MASTER CONTROLLER
- 1 EACH TELEPHONE LINE



LEFT ON GREEN ARROW ONLY

R10-5
30"x36"
SIGN PANEL TYPE 1
(8 REQUIRED)

NOTES:

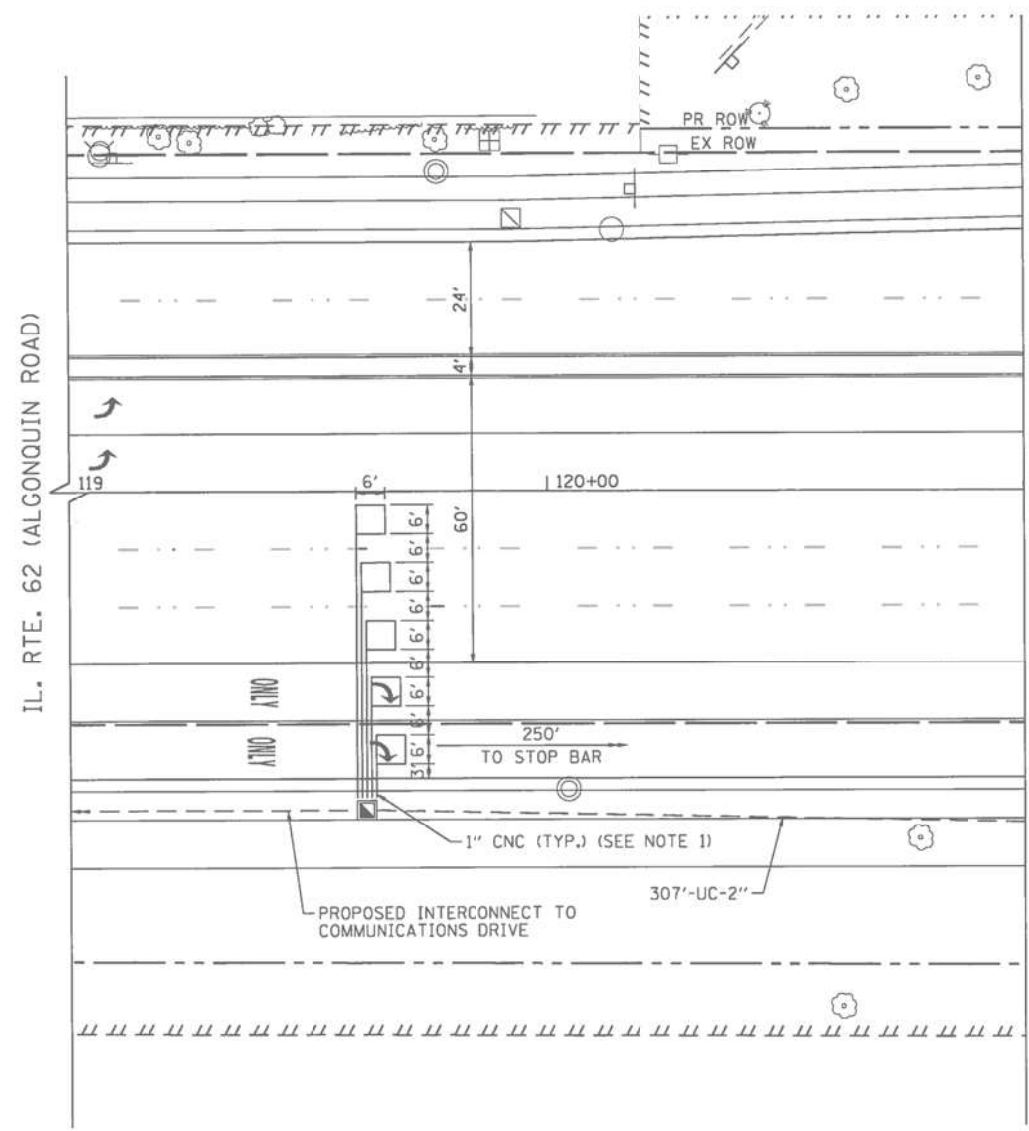
1. THE PTZ CAMERA SHALL BE MOUNTED ON THE LUMINARE ARM OF THE EXISTING COMBINATION MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.
2. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO CENTRACS.
3. CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 61G20. CONTRACT 61G20 IS NEAR COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

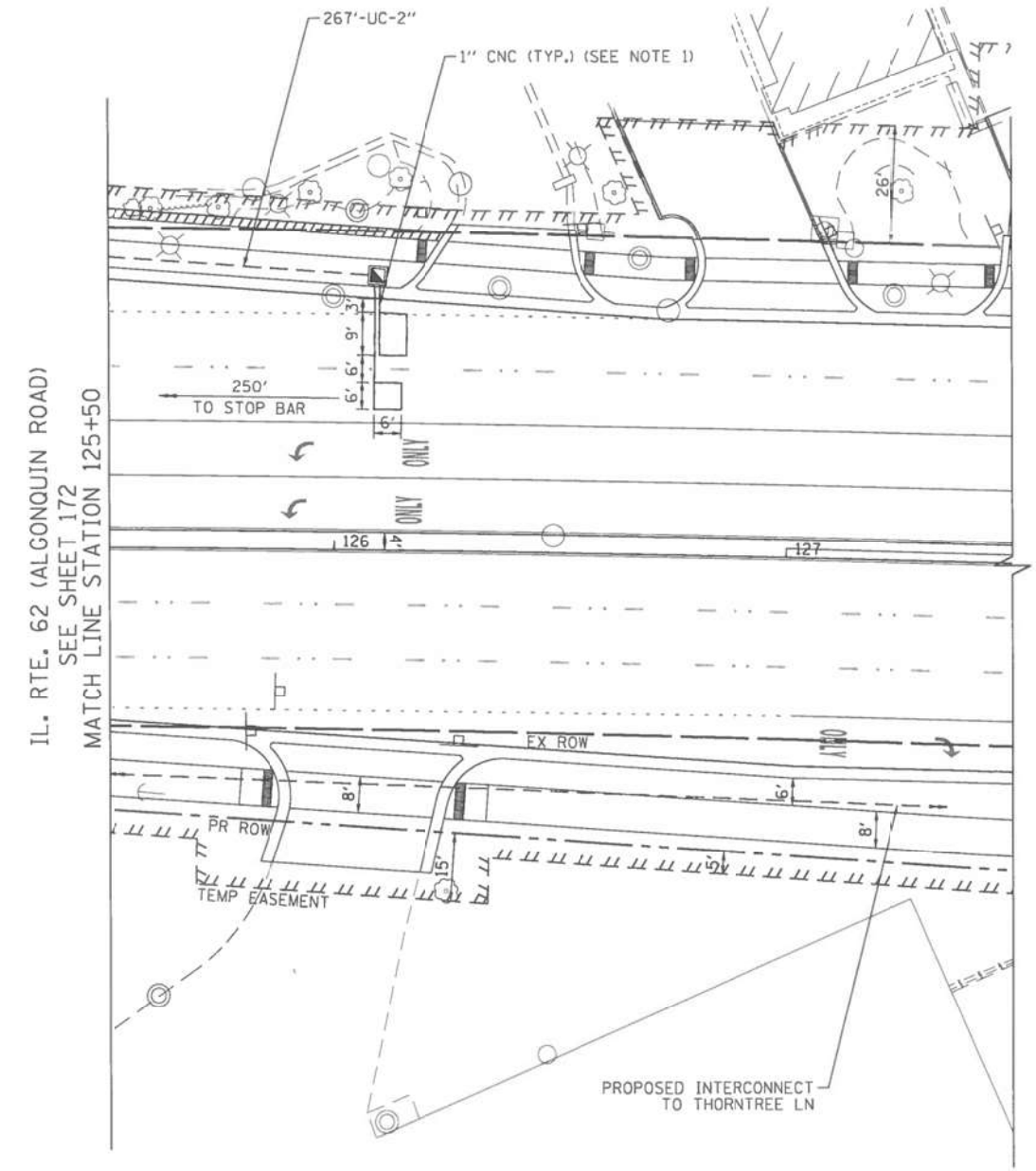
**TS 14780
IDOT CENTRACS
FORMER ECON 96**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-0400_Contracts Phase 2\CADD_Sheets\045_Meacham Rd at IL Rte 62_INT.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #13 MEACHAM RD AT IL RTE 62 (ALGONQUIN RD) INTERSECTION PLAN SHEET 1			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT												



MATCH LINE STATION 121+00
SEE SHEET 172
IL. RTE. 62 (ALGONQUIN ROAD)



MATCH LINE STATION 125+50
SEE SHEET 172
IL. RTE. 62 (ALGONQUIN ROAD)

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 14780
IDOT CENTRACS
FORMER ECON 96

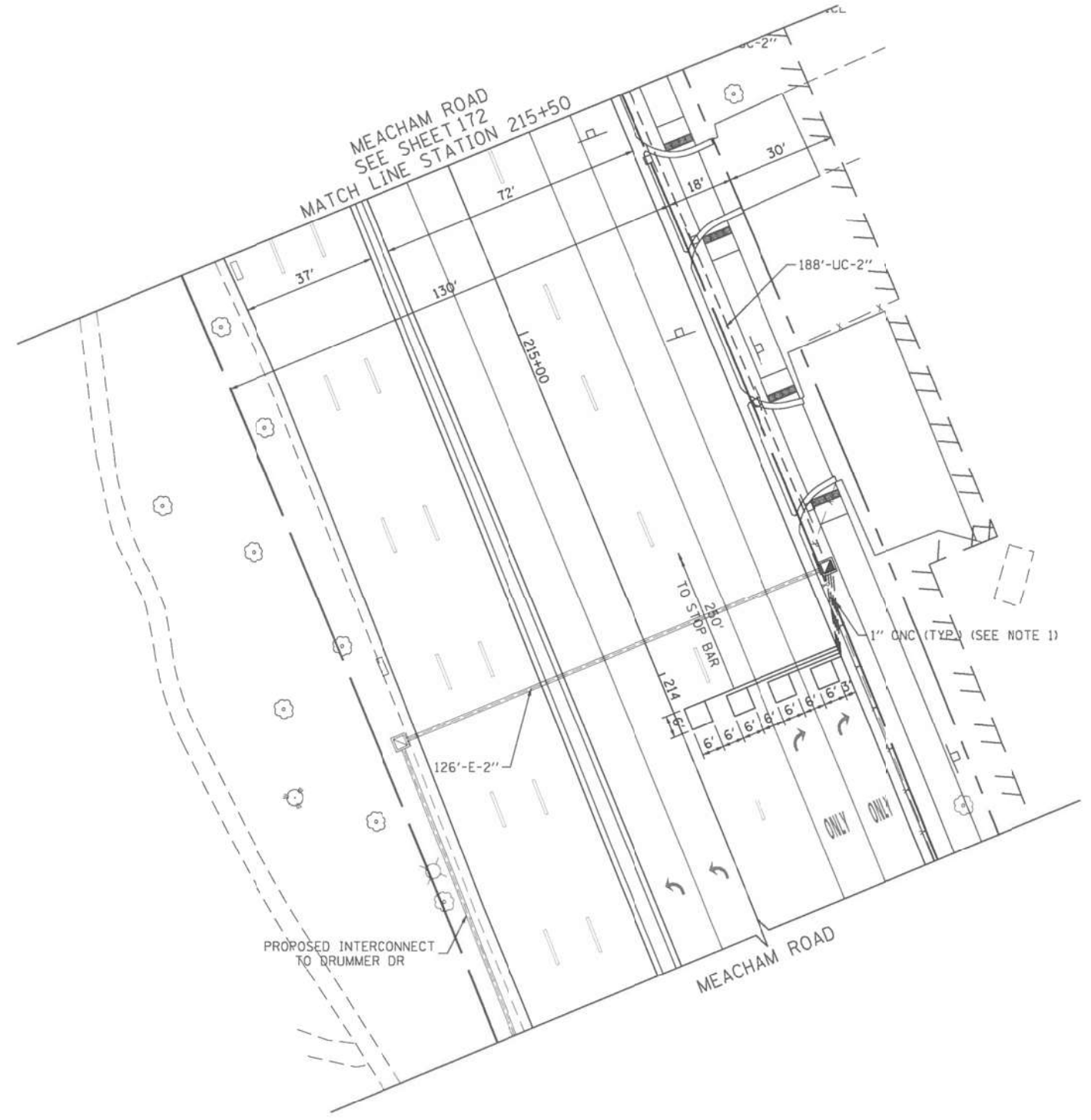
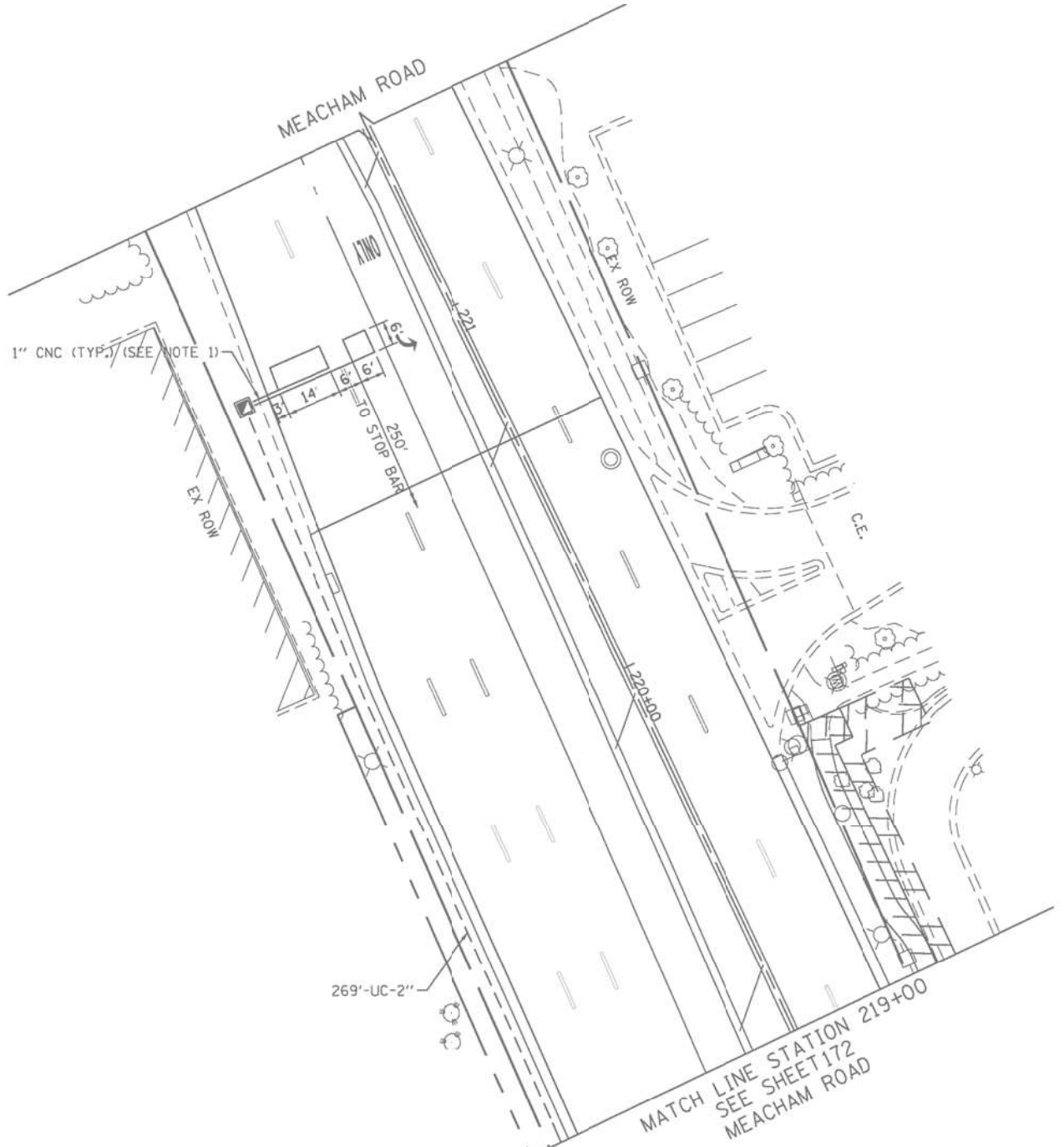
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<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60639 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
	PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #13			
MEACHAM RD AT IL RTE 62 (ALGONQUIN RD) INTERSECTION PLAN			
SHEET 2			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	49
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 14780
IDOT CENTRACS
FORMER ECON 96

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\1000.Sheets\047-Meacham Rd at IL Rte 62.INT.3.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
DATE - 10/31/2022		

DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

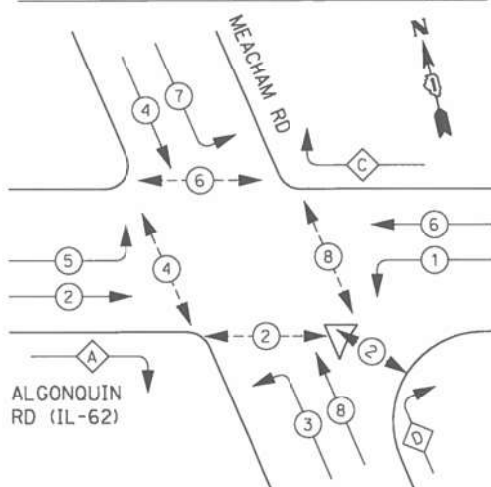
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #13
MEACHAM RD AT IL RTE 62 (ALGONQUIN RD) INTERSECTION PLAN
SHEET 3

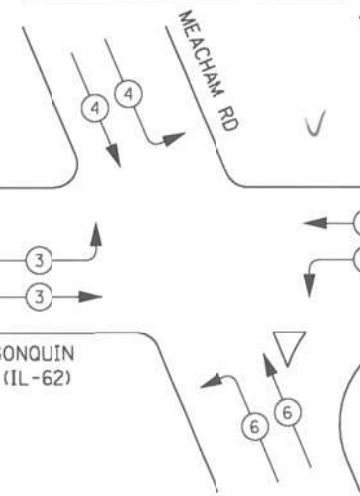
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	50
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



RIGHT TURN OVERLAP PHASE DESIGNATION:

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

LEGEND:

- ← (circle with star) → PROTECTED PHASE
- ← (circle with star and dash) → PROTECTED/PERMITTED PHASE
- ← (circle with star and arrow) → PEDESTRIAN PHASE
- ← (circle with star and OL) → OVERLAP

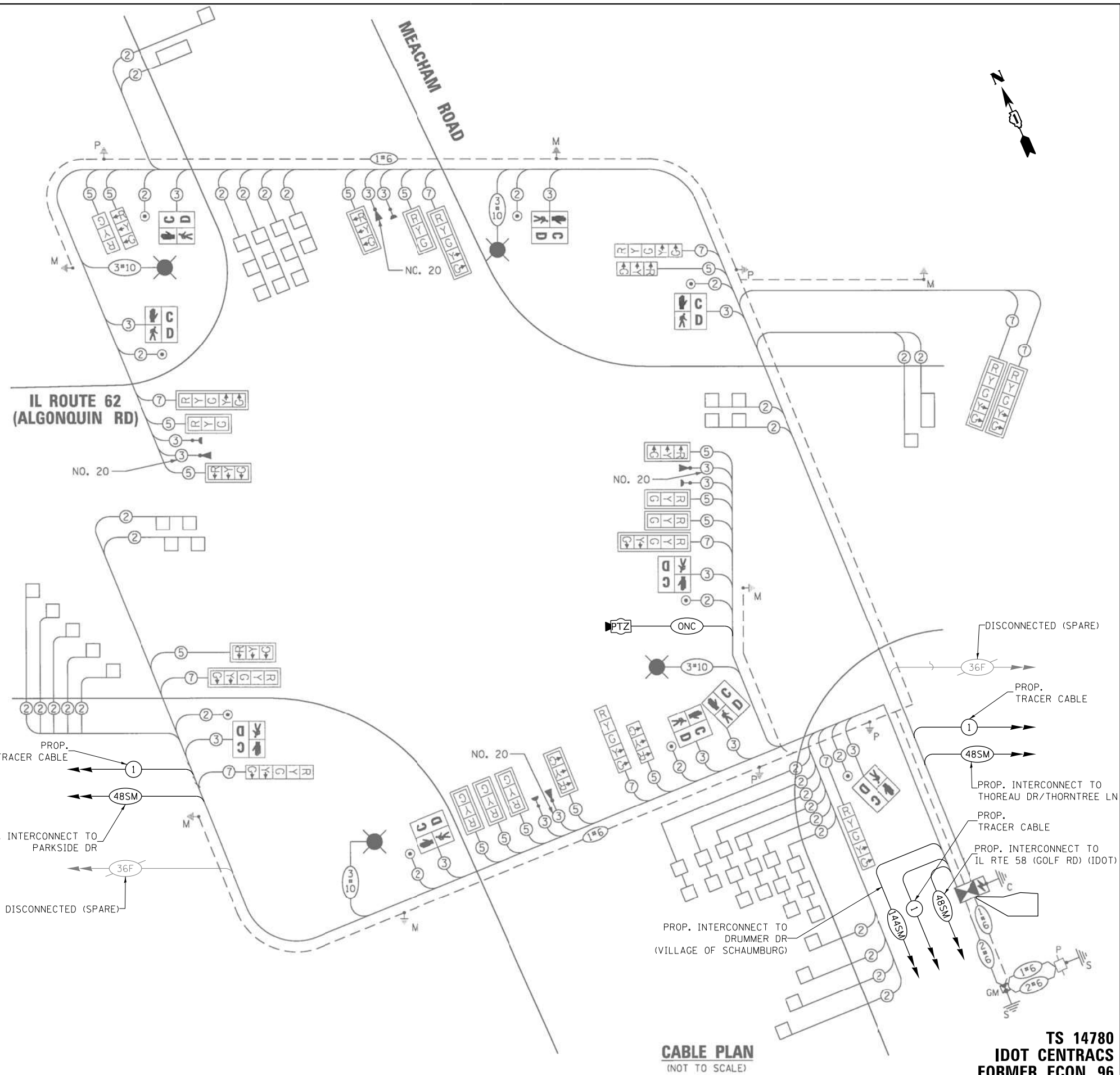
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	170
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	48
LAYER III (NETWORK) SWITCH	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	26 ✓	11	50	143.0 ✓
(YELLOW)	26 ✓	20	5	26.0 ✓
(GREEN)	26 ✓	12	45	140.4 ✓
PERMISSIVE ARROW	20 ✓	10	10	20.0 ✓
PED. SIGNAL	10 ✓	20	100	200.0 ✓
CONTROLLER	1 ✓	100	100	100.0 ✓
UPS	1 ✓	25	100	25.0 ✓
VIDEO SYSTEM	-	150	100	--
BLANK-OUT SIGN	-	25	5	--
FLASHER	-	-	50	--
STREET NAME SIGN	-	120	50	--
LUMINAIRE	4 ✓	285	50	570.0 ✓
TOTAL =				1224.4 ✓

ENERGY COSTS TO:
VILLAGE OF SCHAUMBURG
 101 SCHAUMBURG COURT
 SCHAUMBURG, ILLINOIS 60193-1899
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: _____



CABLE PLAN
(NOT TO SCALE)

TS 14780
IDOT CENTRACS
FORMER ECON 96

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Centracs-Phase 2\CADD\Sheets\048-Meacham Rd at IL Rte 62.CADD.dgn



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	DATE - 10/31/2022	REVISED -

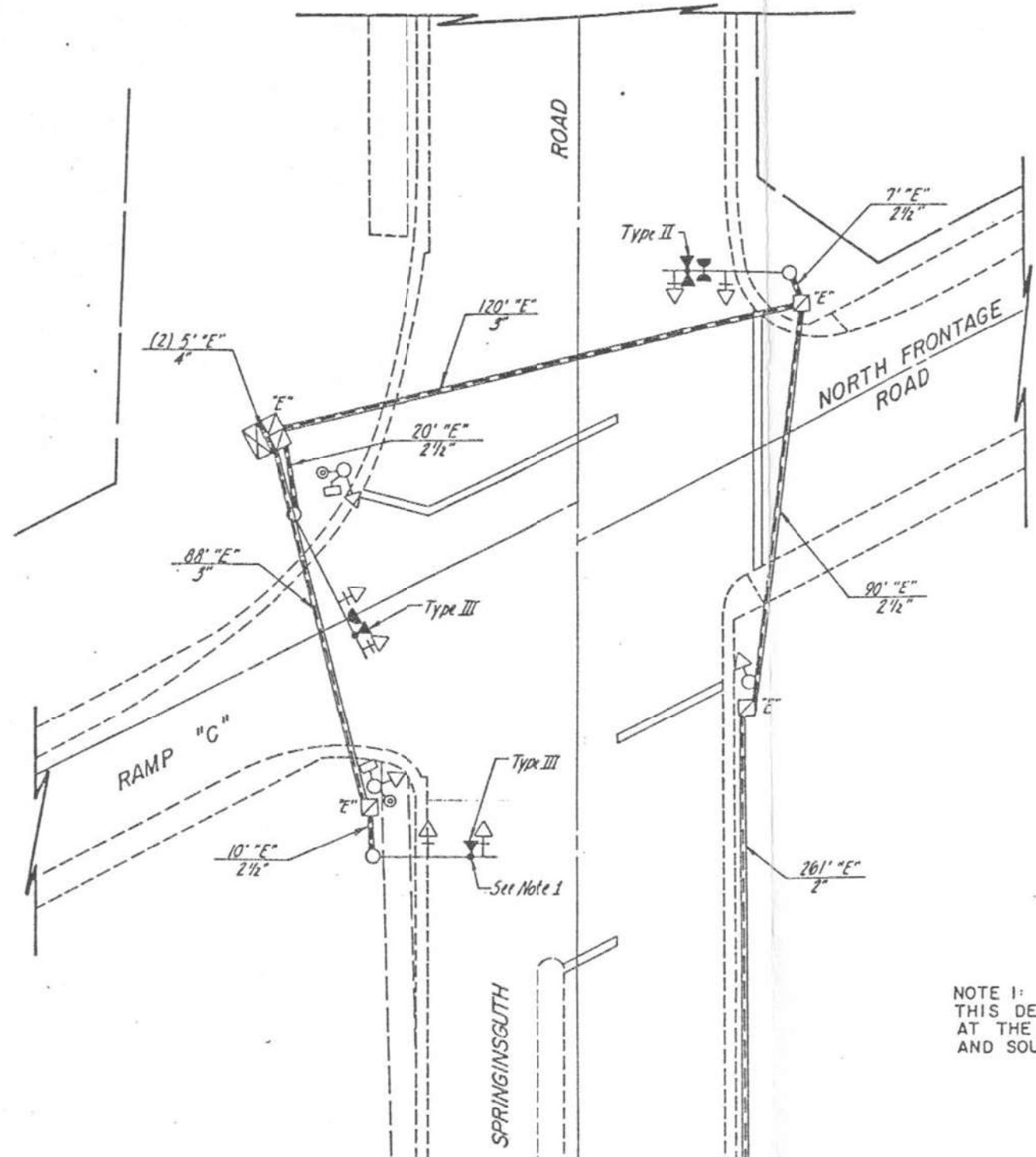
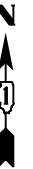
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #13
MEACHAM RD AT IL RTE 62 (ALGONQUIN RD) CABLE PLAN
SHEET 1
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	51
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

NOTES:

1. THE EXISTING TRANSCEIVER FIBER OPTIC WILL BE ABANDONED IN CABINET.



NOTE 1:
THIS DETEC
AT THE INT
AND SOUTH

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 3
IDOT CENTRACS
FORMER ECON 89

K:\PROJECTS\Projects\2022\22-ESR-502-1DDT.CM40 Contracts Phase 2\CADD_Sheets\0490_Springingsguth Rd at WB Frontage Rd.INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
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	PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
	PLOT DATE = \$DATE\$		

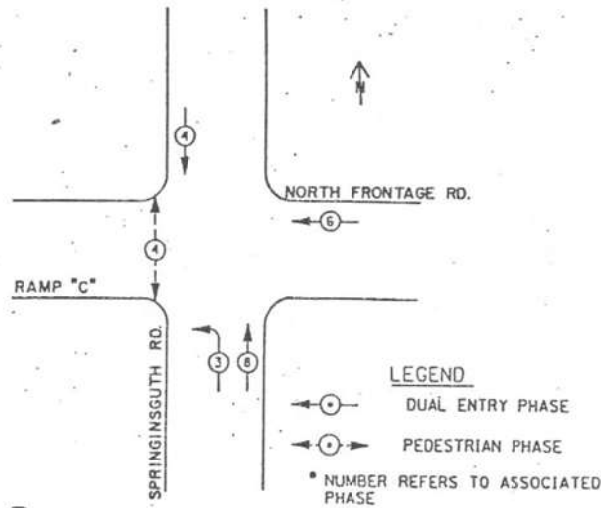
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #83
SPRINGINGSGUTH RD AT WB FRONTAGE RD INTERSECTION PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	52
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

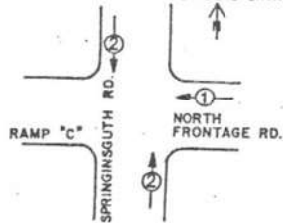
CONTROLLER SEQUENCE IV
 REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



PHASE DESIGNATION DIAGRAM

DUAL ENTRY - ALL LEGS
 PROTECTED/PERMITTED LEFT TURN PHASING

EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY OPERATION - ALL LEGS

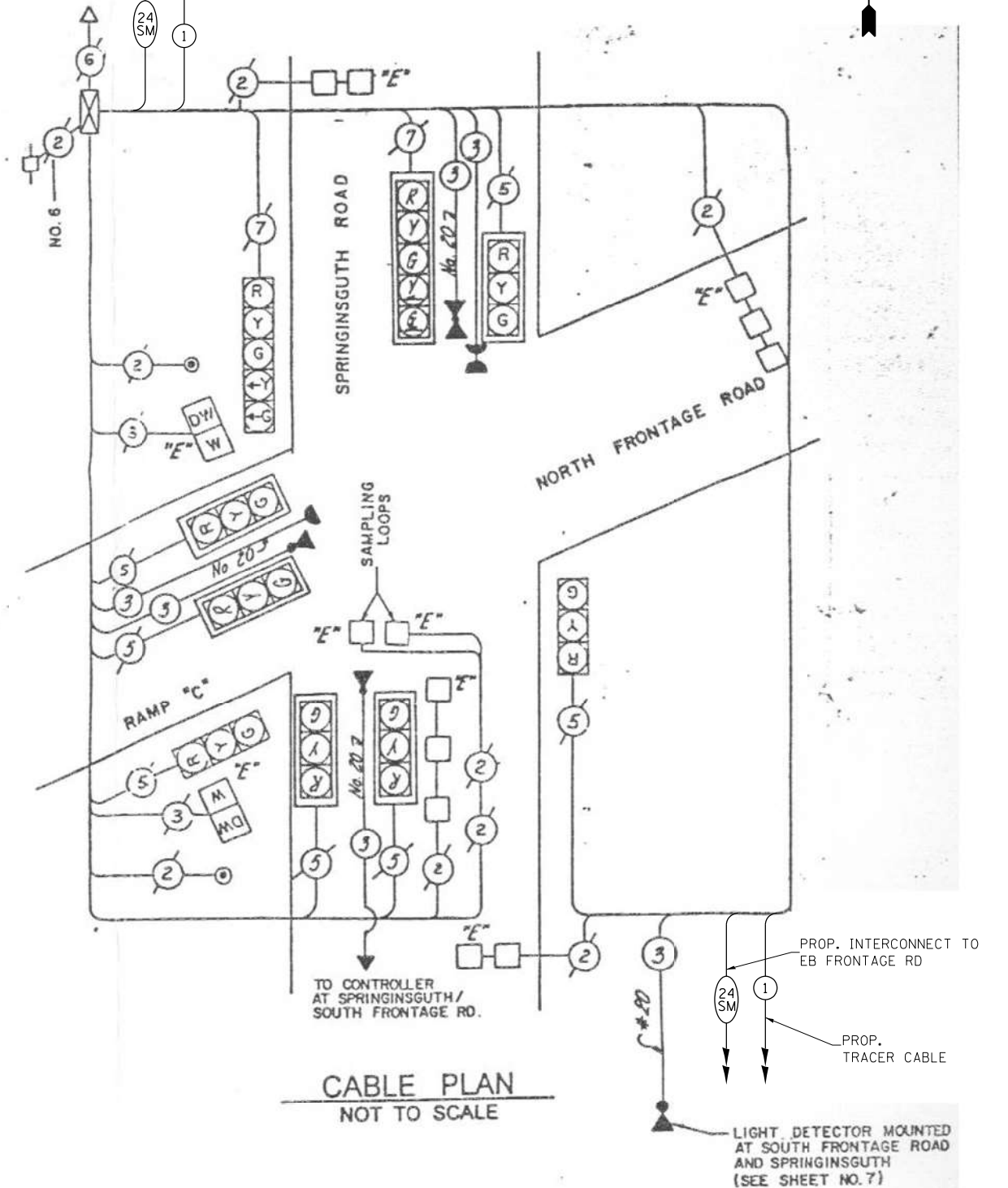


PROPOSED PRIORITY LANES		
PRIORITY-LANE INTERVAL	1	2
MOVEMENT	←	↑ ↓

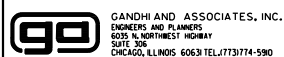
SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

PROP. INTERCONNECT TO IL RTE 19 (IRVING PARK RD)
 PROP. TRACER CABLE



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\0408_Springingsguth Rd at WB Frontage Rd.Caddgn



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PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #83
SPRINGSGUTH RD AT WB FRONTAGE RD CABLE PLAN

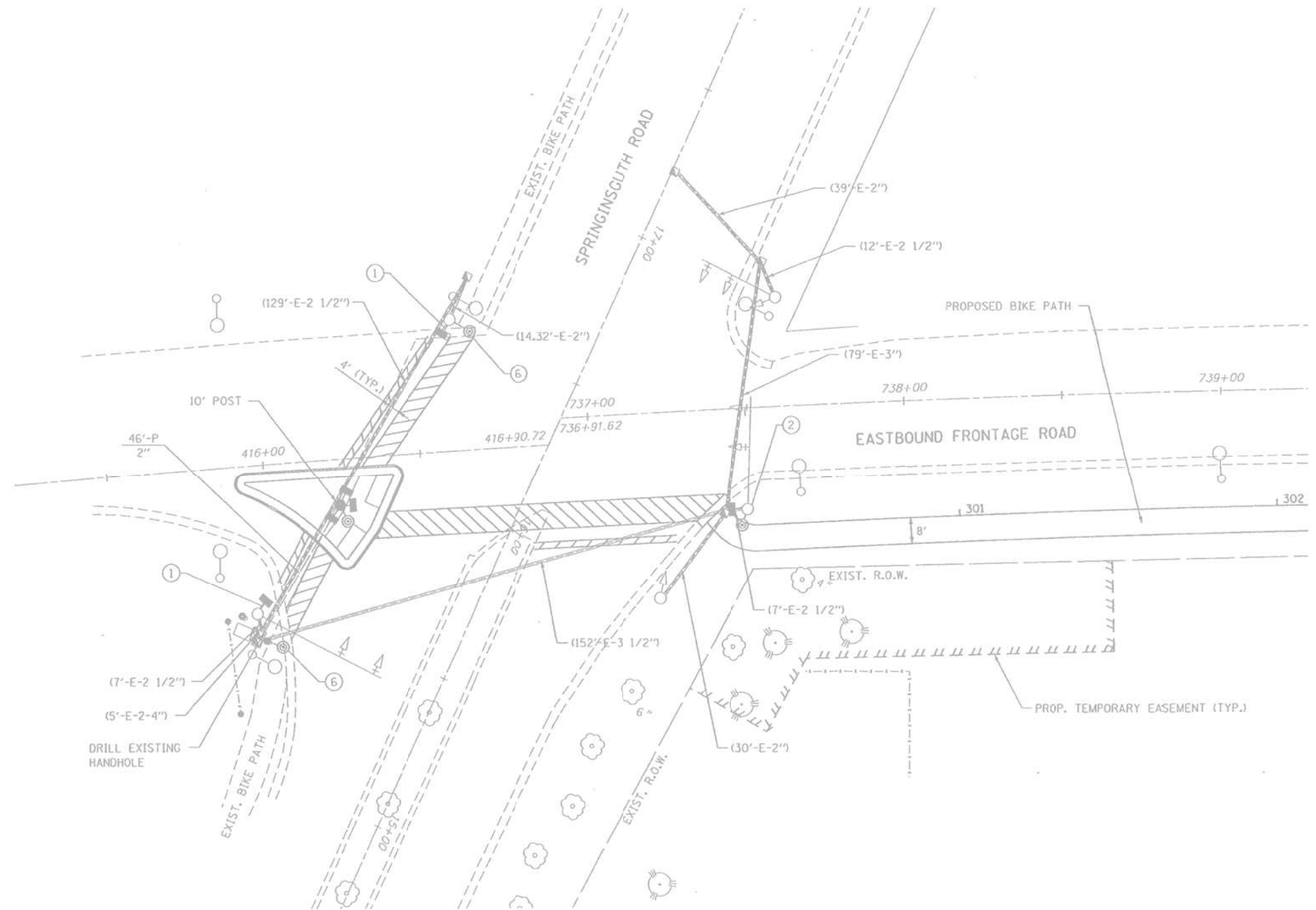
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	53
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 3
IDOT CENTRACS
FORMER ECON 89

NOTES:

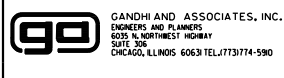
1. THE EXISTING TRANSCEIVER FIBER OPTIC WILL BE ABANDONED IN CABINET.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 6
IDOT CENTRACS
FORMER ECON 89**

K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\QAPC_Springinguth Rd at EB Frontage Rd.INT.dgn



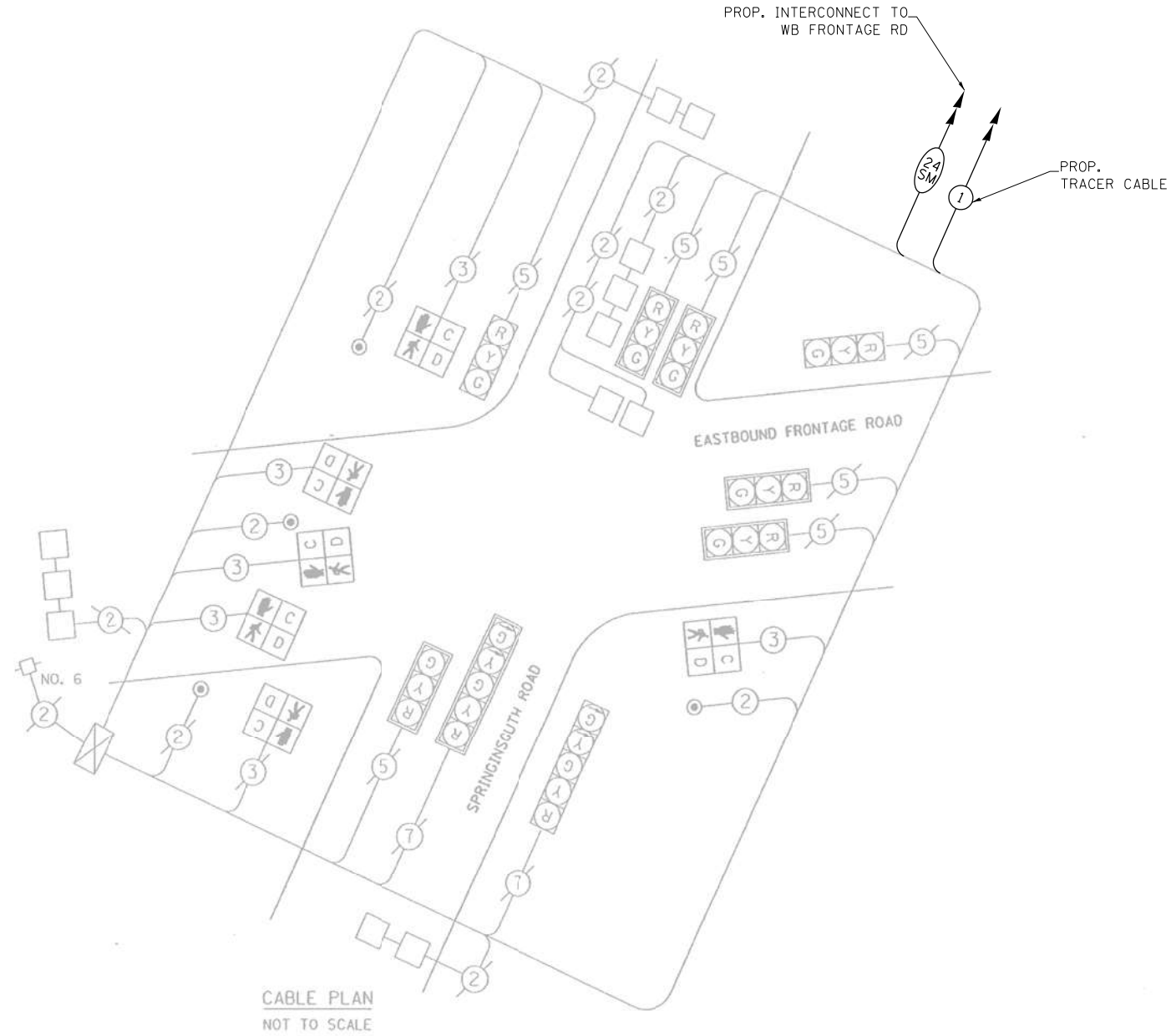
USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE*		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #84
SPRINGINGUTH RD AT EB FRONTAGE RD INTERSECTION PLAN**

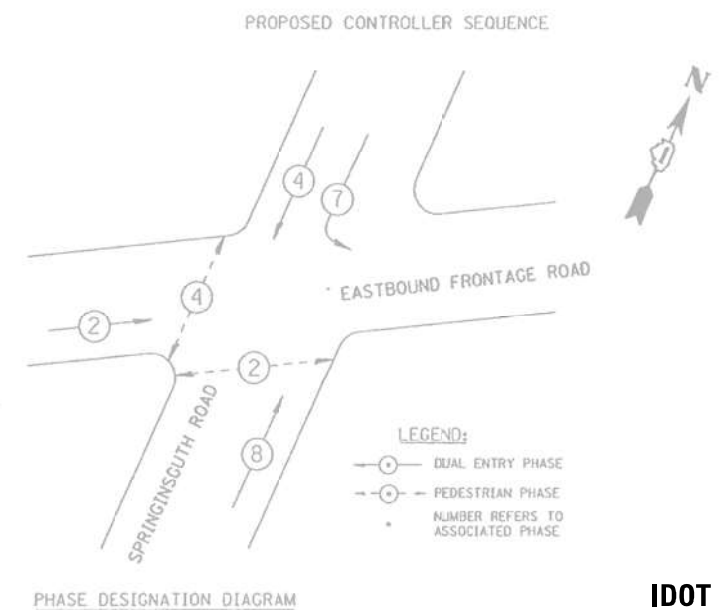
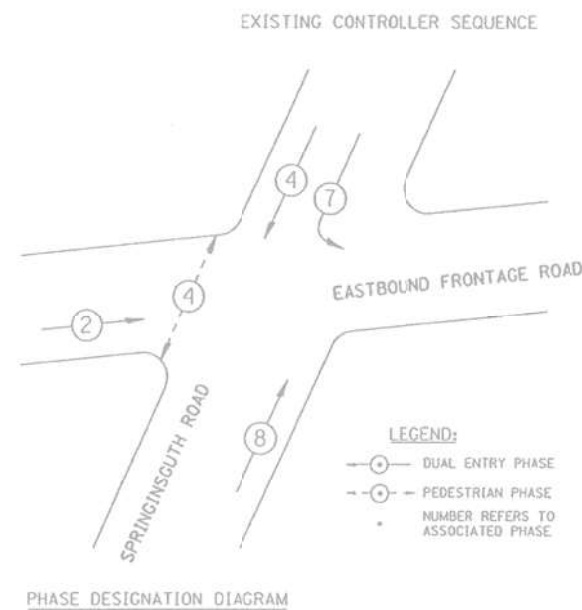
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC Q2	VARIOUS	306	54
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

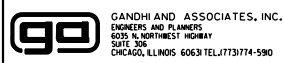


SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40_Contracts Phase 2\CADD_Sheets\0400_Springingsuth Rd at EB Frontage Rd.CADDgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE*		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #84
SPRINGINGSUTH RD AT EB FRONTAGE RD CABLE PLAN

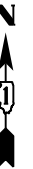
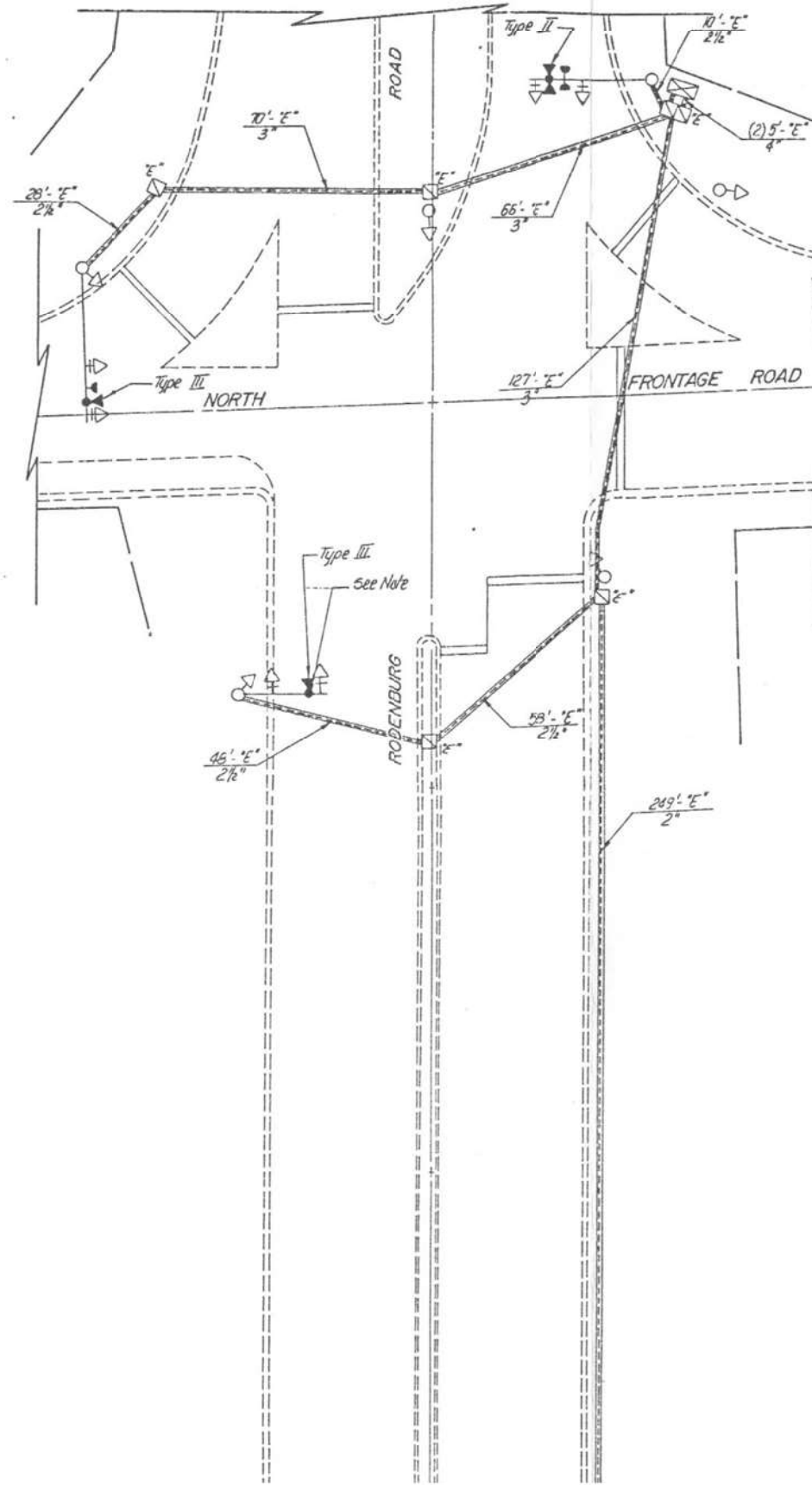
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	55
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

TS 6
IDOT CENTRACS
FORMER ECON 89

NOTES:

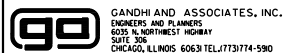
1. THE EXISTING TRANSCEIVER FIBER OPTIC WILL BE ABANDONED IN CABINET.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 2
IDOT CENTRACS
FORMER ECON 89**

K:\PROJECTS\Projects\2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\Q&P\Rodenburg Rd at WB Frontage Rd.INT.dgn



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

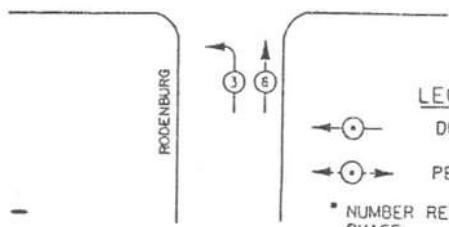
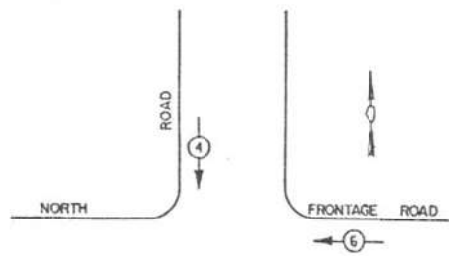
**LOCATION #85
RODENBURG RD AT WB FRONTAGE RD INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC Q2	VARIOUS	306	56
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



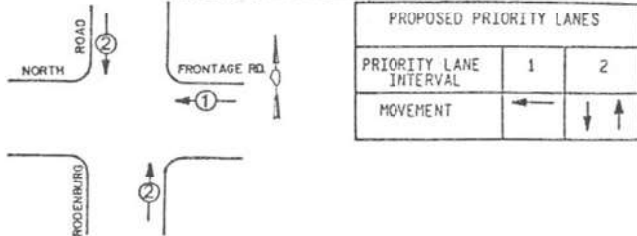
LEGEND

- ←○→ DUAL ENTRY PHASE
- ←○→ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

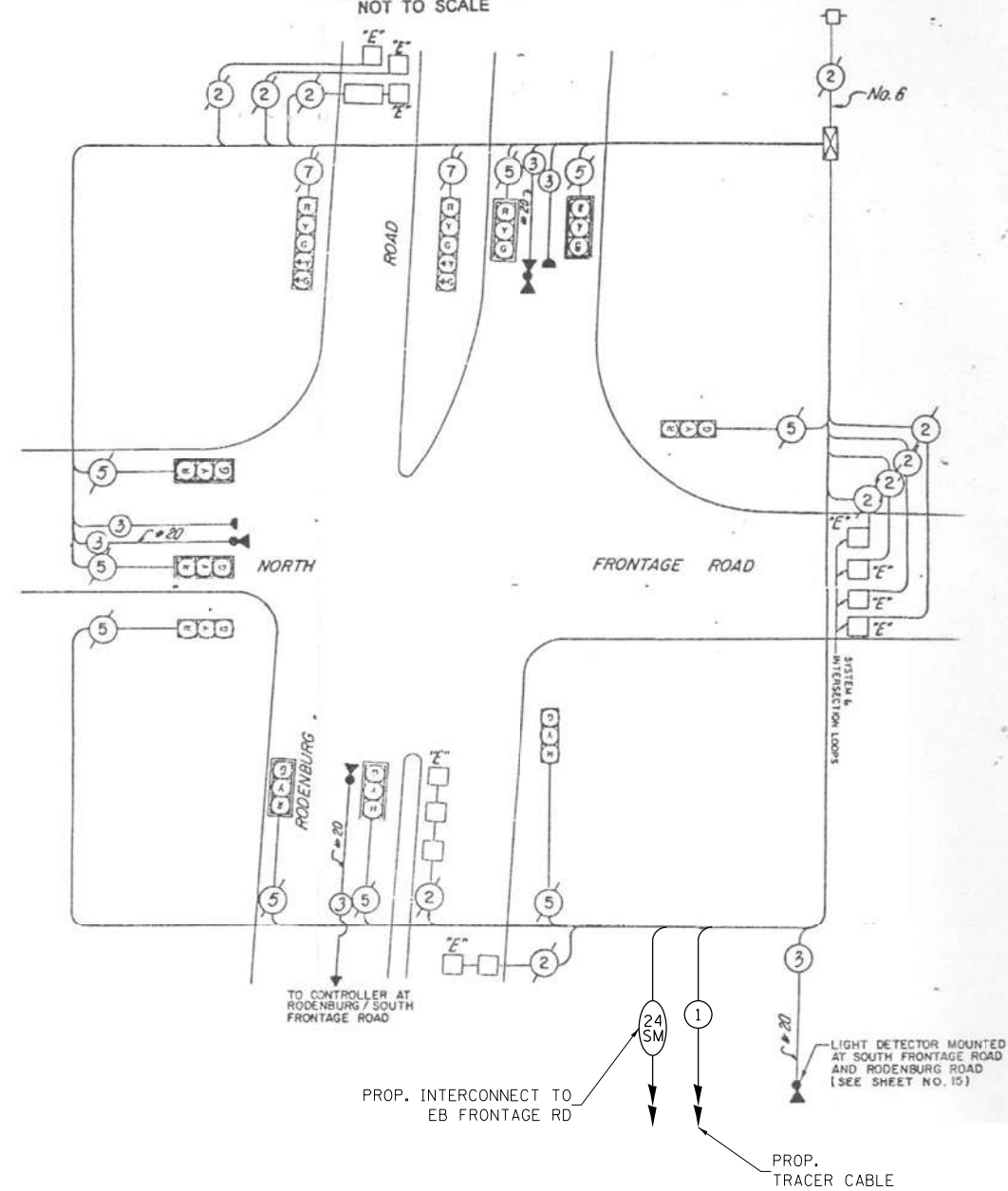
DUAL ENTRY - ALL LEGS
PROTECTED/PERMITTED LEFT TURN PHASING

EMERGENCY VEHICLE PREEMPTION SEQUENCE NOTES FOR DUAL ENTRY OPERATION - ALL LEGS



PROPOSED PRIORITY LANES		
PRIORITY LANE INTERVAL	1	2
MOVEMENT	←	↑

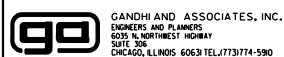
CABLE PLAN
NOT TO SCALE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

K:\PROJECTS\Projects\2022\22-ESR-502-101.CM40 Contracts Phase 2\CADD_Sheets\0409_Rodenburg Rd at WB Frontage Rd.CADD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #85
RODENBURG RD AT WB FRONTAGE RD CABLE PLAN**

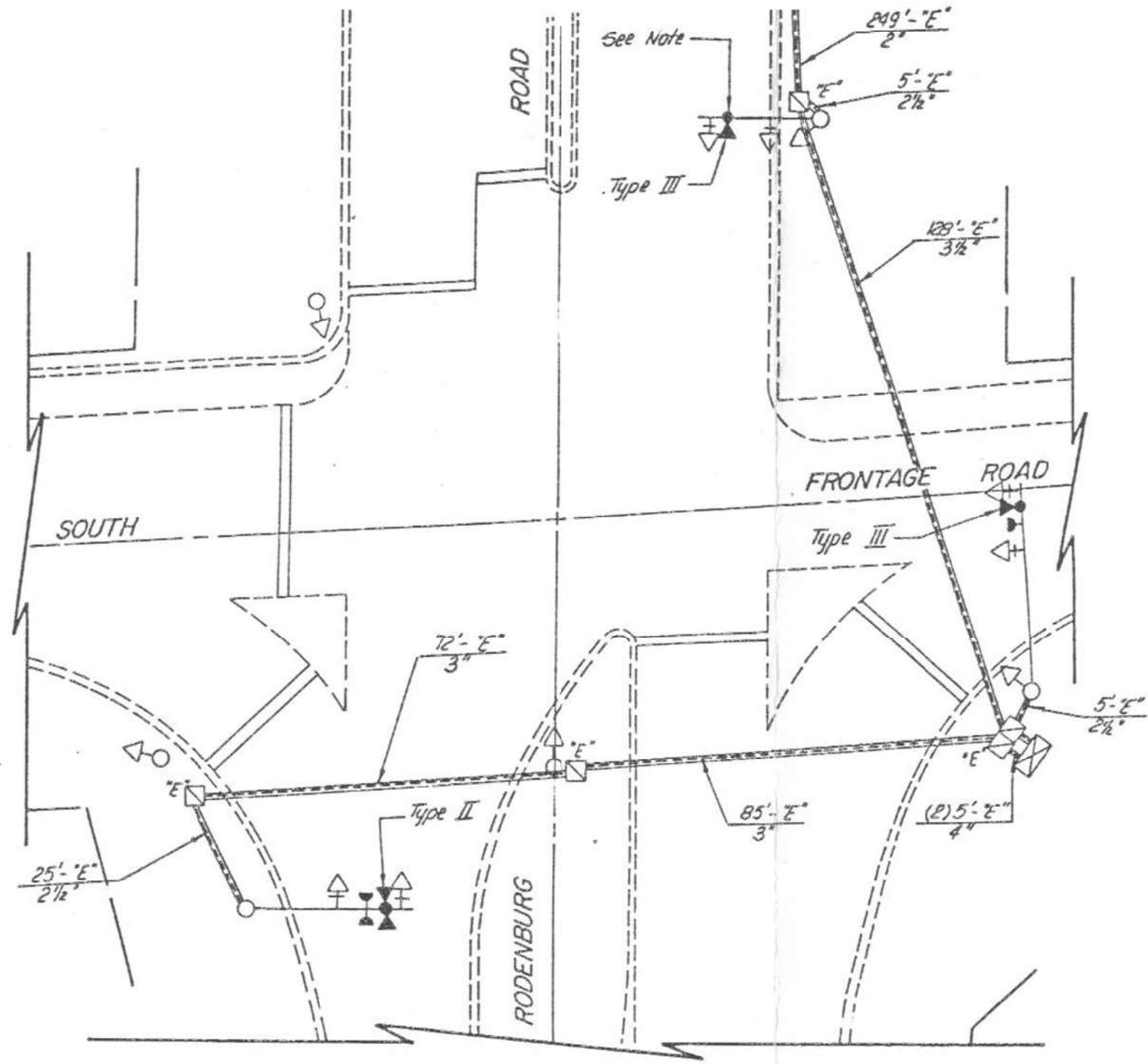
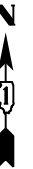
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	57
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 2
IDOT CENTRACS
FORMER ECON 89**

NOTES:

1. THE EXISTING TRANSCEIVER FIBER OPTIC WILL BE ABANDONED IN CABINET.



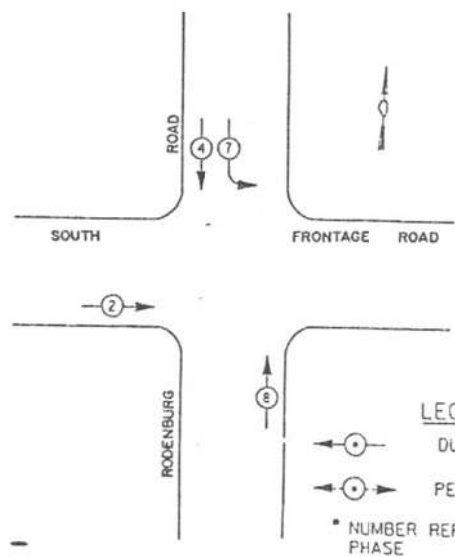
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 5
IDOT CENTRACS
FORMER ECON 89**

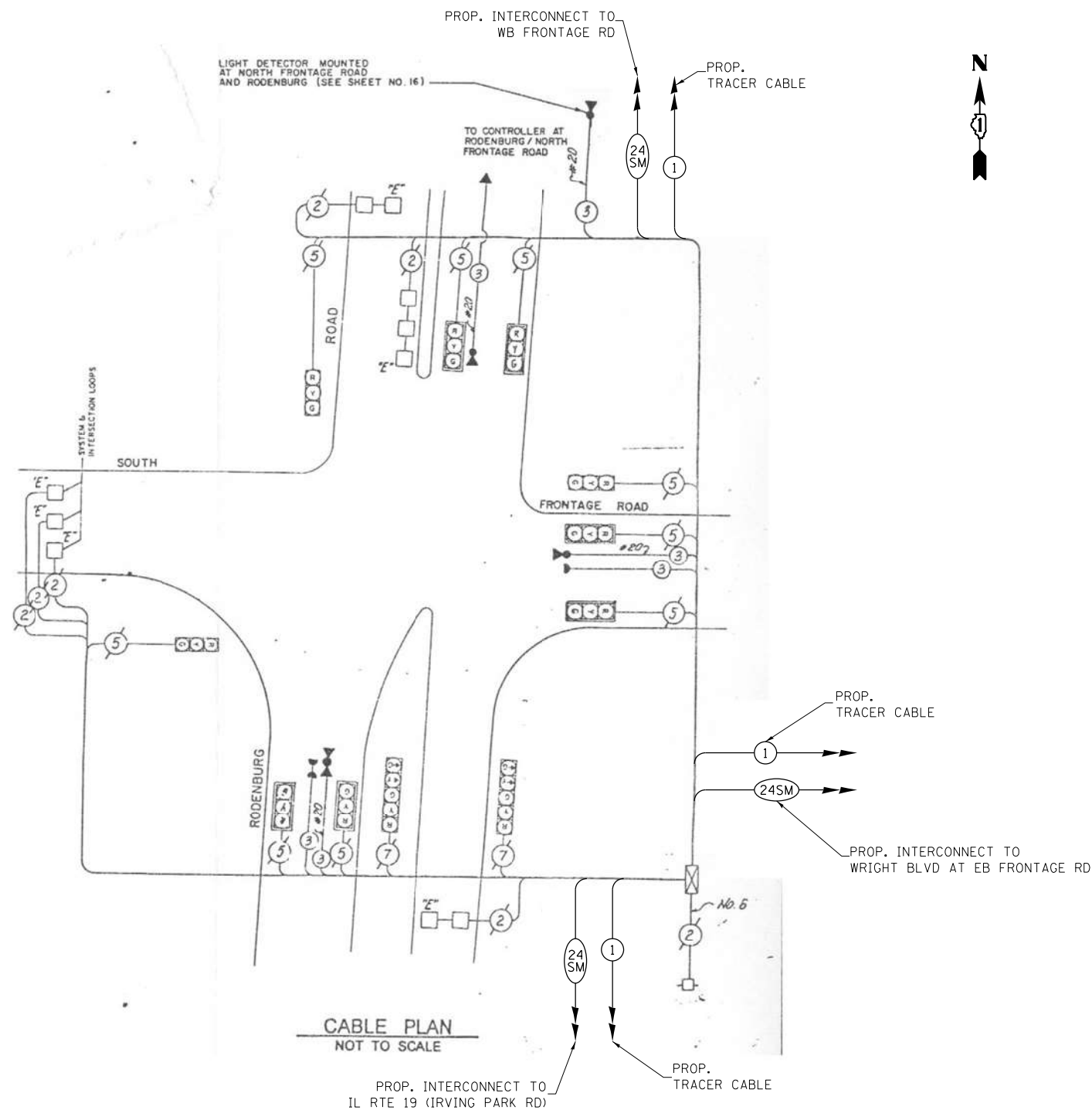
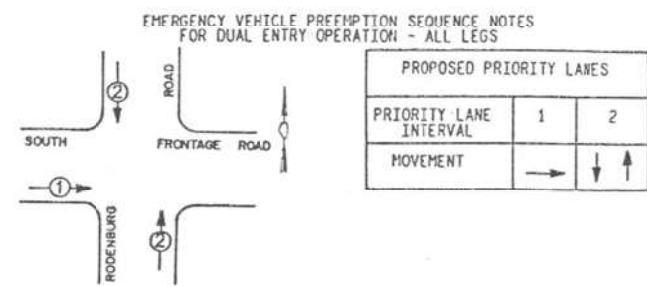
K:\PROJECTS\Projects\2022\22-ESR-502-IDD\CMAD Contracts Phase 2\CADD\Sheets\QAPC_Rodenburg Rd at EB Frontage Rd_INT.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #86 RODENBURG RD AT EB FRONTAGE RD INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC Q2	VARIOUS
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -										
								FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

CONTROLLER SEQUENCE IV
 REFERRING TO STANDARD 2393, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



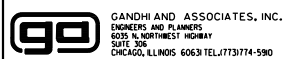
PHASE DESIGNATION DIAGRAM
 DUAL ENTRY - ALL LEGS
 PROTECTED/PERMITTED LEFT TURN PHASING



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-101.CM40 Contracs Phase 2\CADD\Sheets\09\Rodenburg Rd at EB Frontage Rd_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION #86
 RODENBURG RD AT EB FRONTAGE RD CABLE PLAN**

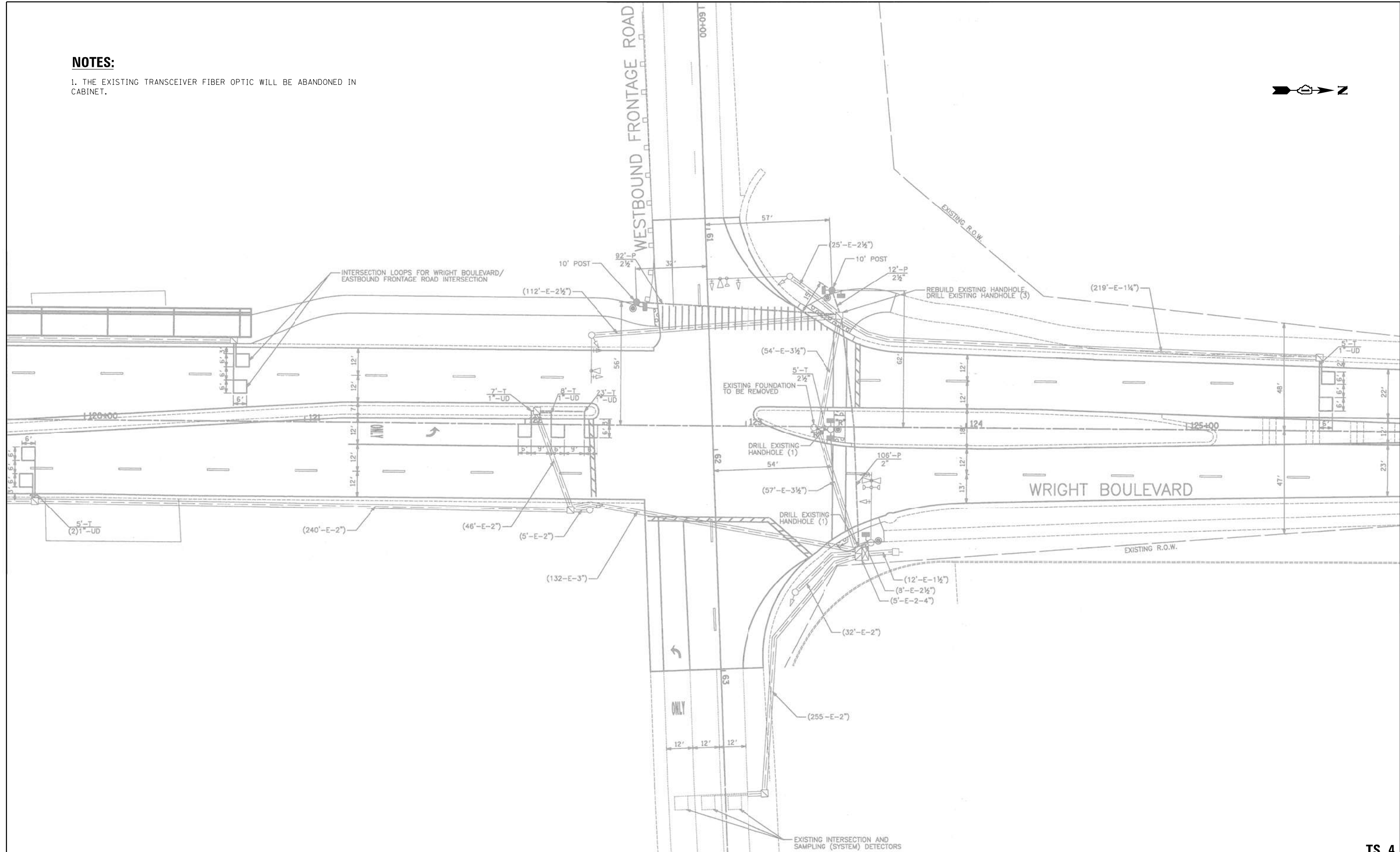
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	59
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 5
 IDOT CENTRACS
 FORMER ECON 89**

NOTES:

1. THE EXISTING TRANSCEIVER FIBER OPTIC WILL BE ABANDONED IN CABINET.



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 4
IDOT CENTRACS
FORMER ECON 89**

K:\PROJECTS\Projects 2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\0491.Wright Blvd at WB Frontage Rd.INT.dgn

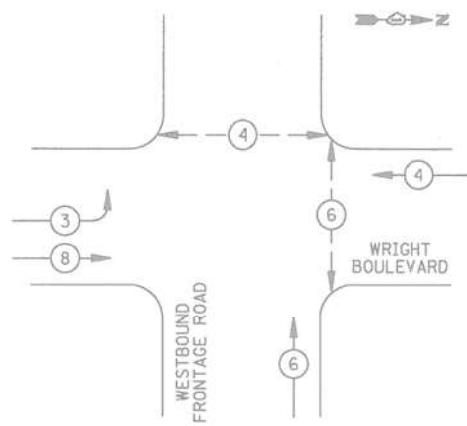
<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773/774-590</p>	USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	DATE = \$DATE*	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

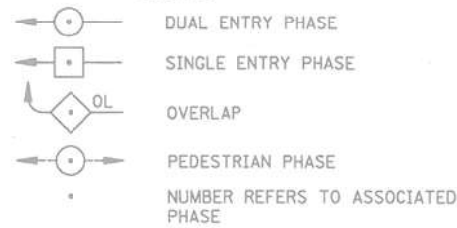
LOCATION #87			
WRIGHT BLVD AT WB FRONTAGE RD INTERSECTION PLAN			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC Q2	VARIOUS	306	60
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

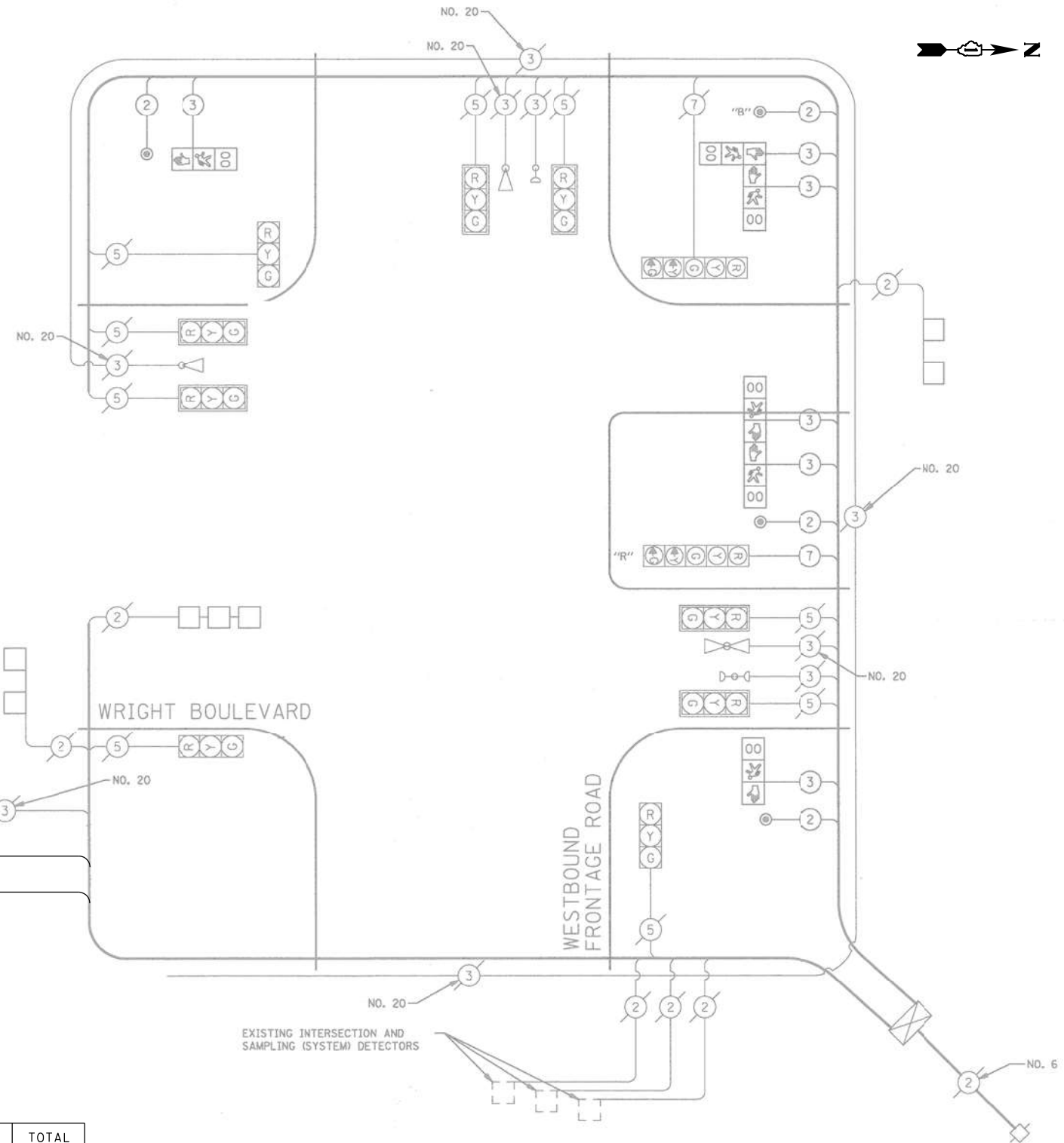
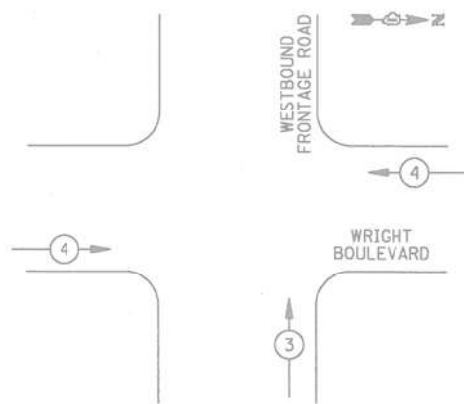
PROPOSED CONTROLLER SEQUENCE



LEGEND



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROP. TRACER CABLE
 PROP. INTERCONNECT TO EB FRONTAGE RD

CABLE PLAN
 NOT TO SCALE

NOTE:
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS*	WATTAGE INCAND.	LED % OPERATION	
SIGNAL (RED)	11	17	0.50	94
(YELLOW)	11	25	0.25	63
(GREEN)	11	15	0.25	41
ARROW	4	12	0.10	5
PED. SIGNAL	6	25	1.00	150
CONTROLLER	1	100	1.00	100
FLASHER			0.50	
TOTAL =				459

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

ENERGY SUPPLY: CONTACT: MARK GLOECKLE
 PHONE: (630) 691-4529
 COMPANY: COM ED

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT.CM40_Centracs Phase 2\CADD_Sheets\0491_Wright Blvd at WB Frontage Rd.Caddgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION #87
 WRIGHT BLVD AT WB FRONTAGE RD CABLE PLAN

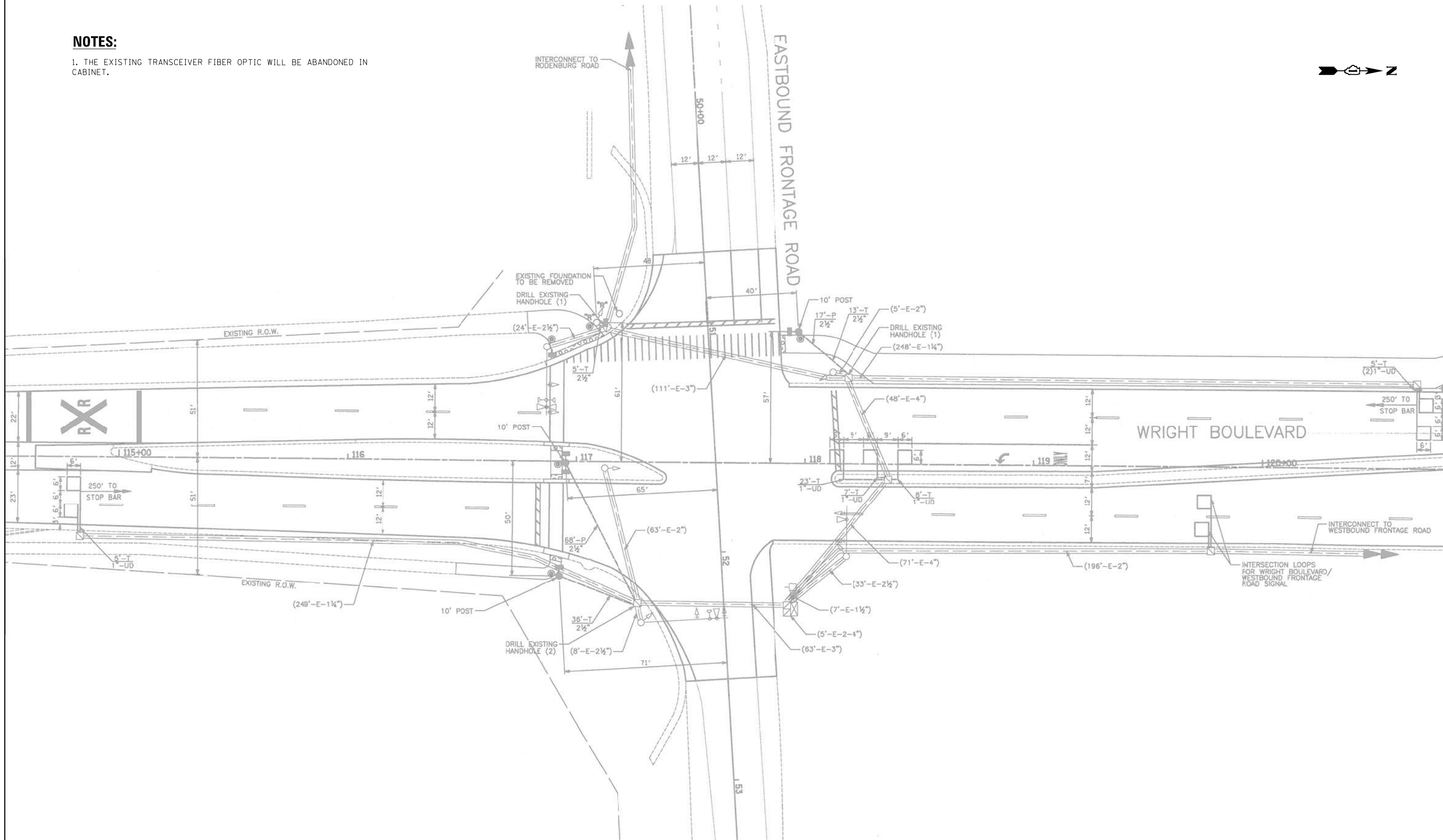
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	61
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 4
 IDOT CENTRACS
 FORMER ECON 89

NOTES:

1. THE EXISTING TRANSCEIVER FIBER OPTIC WILL BE ABANDONED IN CABINET.



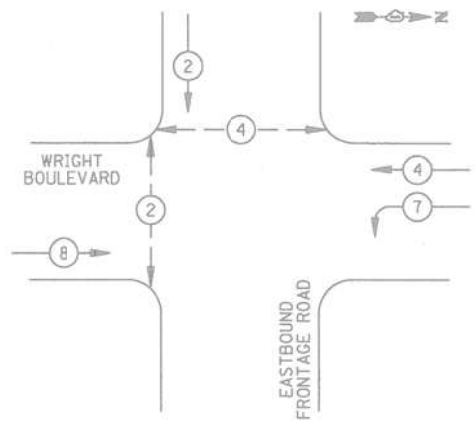
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 7
IDOT CENTRACS
FORMER ECON 89**

K:\PROJECTS\Projects\2022\22-ESR-502-1DDT.CM40 Contracts Phase 2\CADD\Sheets\09%_Wright Blvd at EB Frontage Rd.INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER*	DESIGNED - EA	REVISED - 12-2-2022	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">LOCATION #88 WRIGHT BLVD AT EB FRONTAGE RD INTERSECTION PLAN</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1".	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC Q2	VARIOUS
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
								FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE

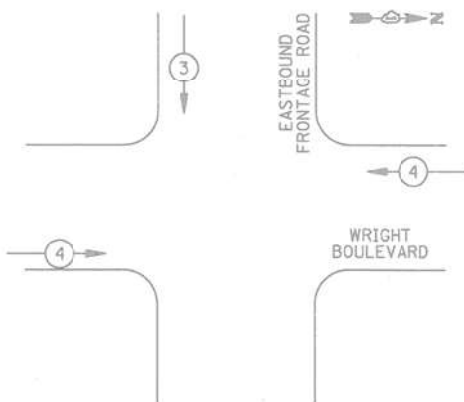


LEGEND

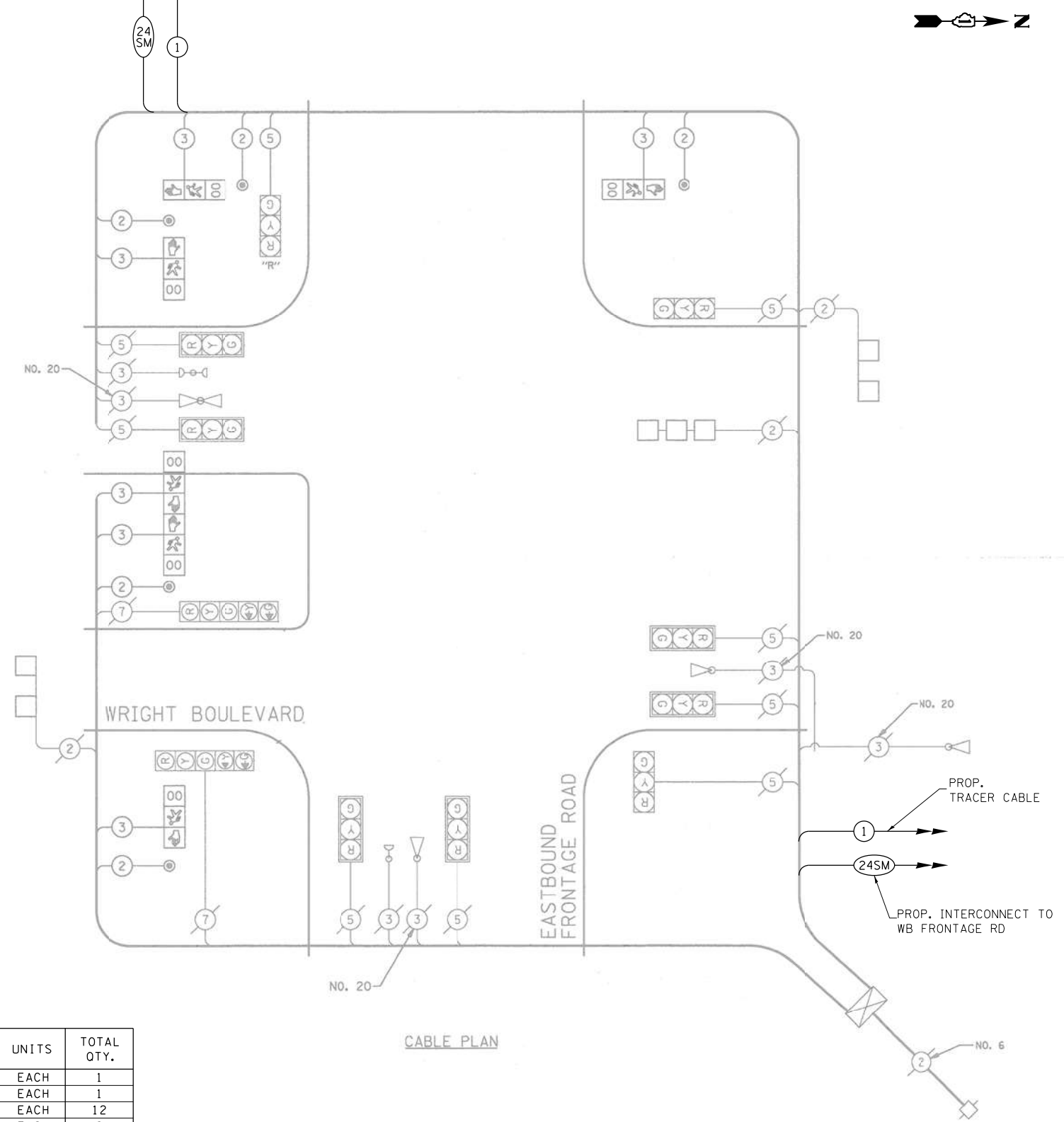
- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROP. INTERCONNECT TO RODENBURG RD AT EB FRONTAGE RD
PROP. TRACER CABLE



CABLE PLAN

SCHEDULE OF QUANTITIES

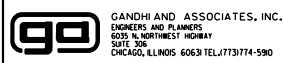
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS*	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	94
(YELLOW)	11		25	0.25	69
(GREEN)	11		15	0.25	41
ARROW	4		12	0.10	5
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					459

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

ENERGY SUPPLY: CONTACT: MARK GLOECKLE
PHONE: (630) 691-4529
COMPANY: COM ED

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT.CM40 Contracts Phase 2\CADD\Sheets\0498...Wright Blvd at EB Frontage Rd.CADD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #88
WRIGHT BLVD AT EB FRONTAGE RD CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	63
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 7
IDOT CENTRACS
FORMER ECON 89

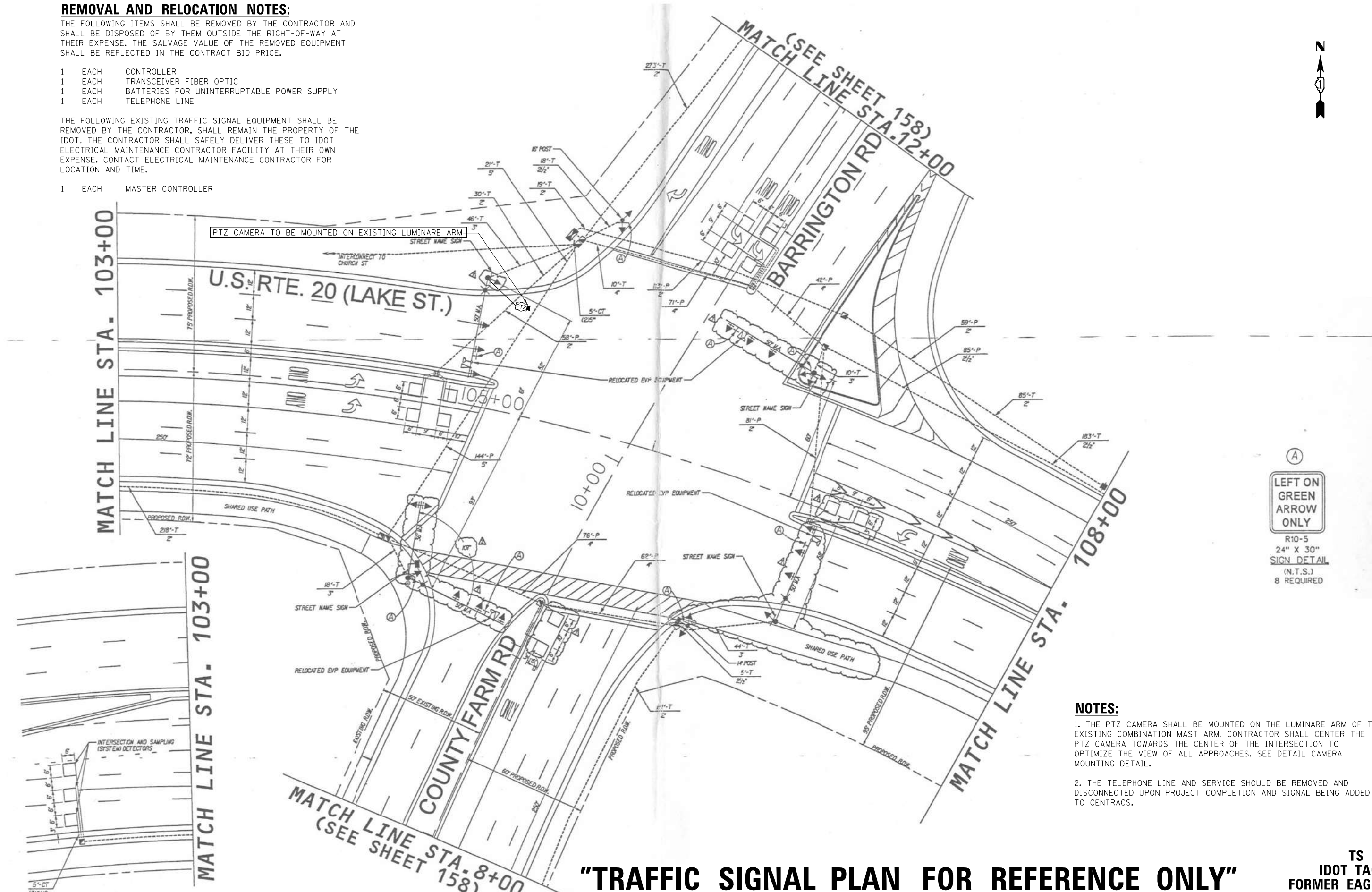
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY
- 1 EACH TELEPHONE LINE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH MASTER CONTROLLER



- NOTES:**
1. THE PTZ CAMERA SHALL BE MOUNTED ON THE LUMINARE ARM OF THE EXISTING COMBINATION MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.
 2. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO CENTRACS.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 13765
IDOT TACTICS
FORMER EAGLE 5F**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\051.Barrington Rd at US Rte 20.INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISOR -	REVISION -
PLOT SCALE = 40.0000' / 1"	CHECKED - MS	REVISOR -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISION -

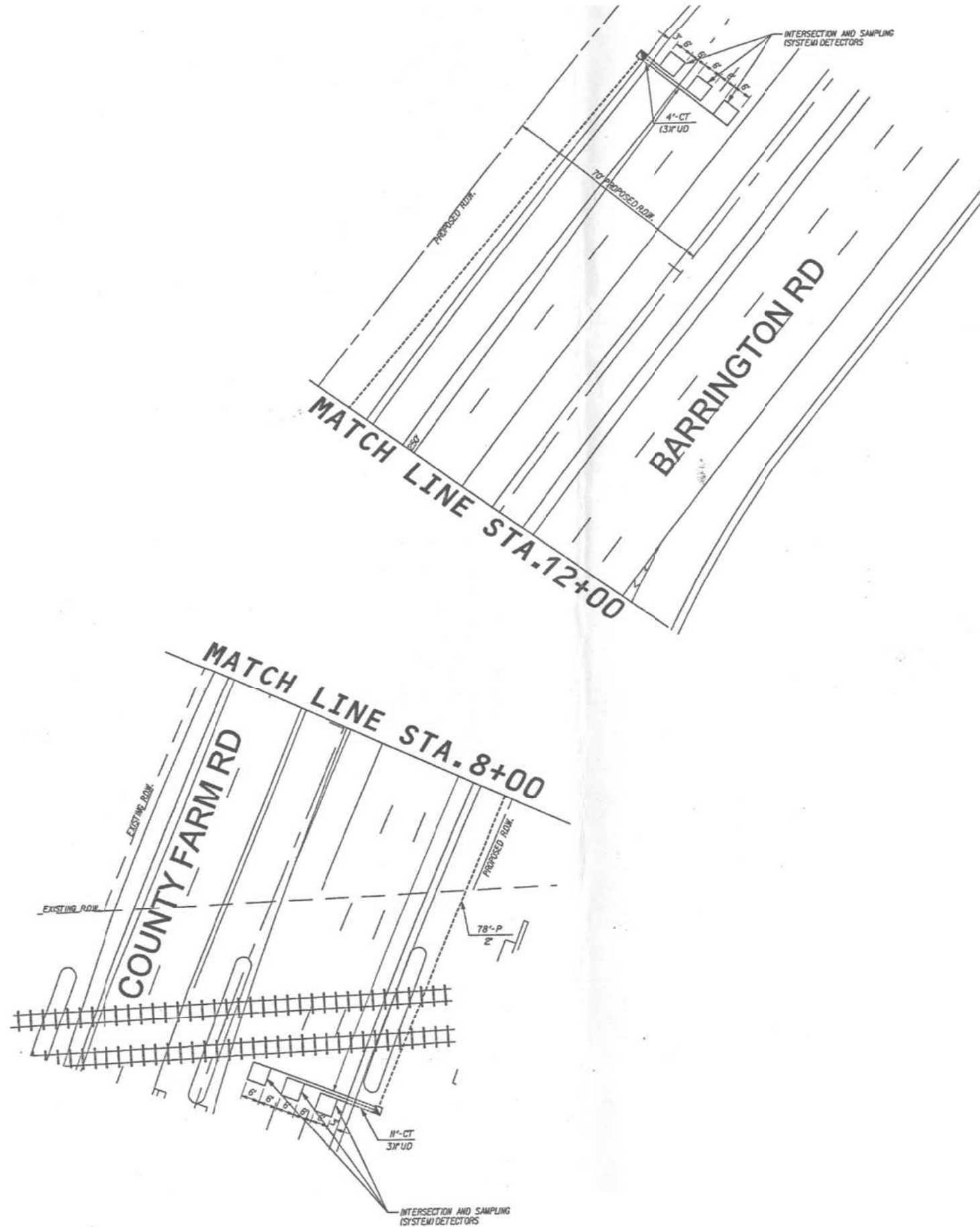
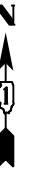
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #15
BARRINGTON RD AT US RTE 20 (LAKE ST) INTERSECTION PLAN SHEET 1**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	64
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\052.Barrington Rd at US Rte 20.INT.2.dgn

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 205
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISIONS -	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

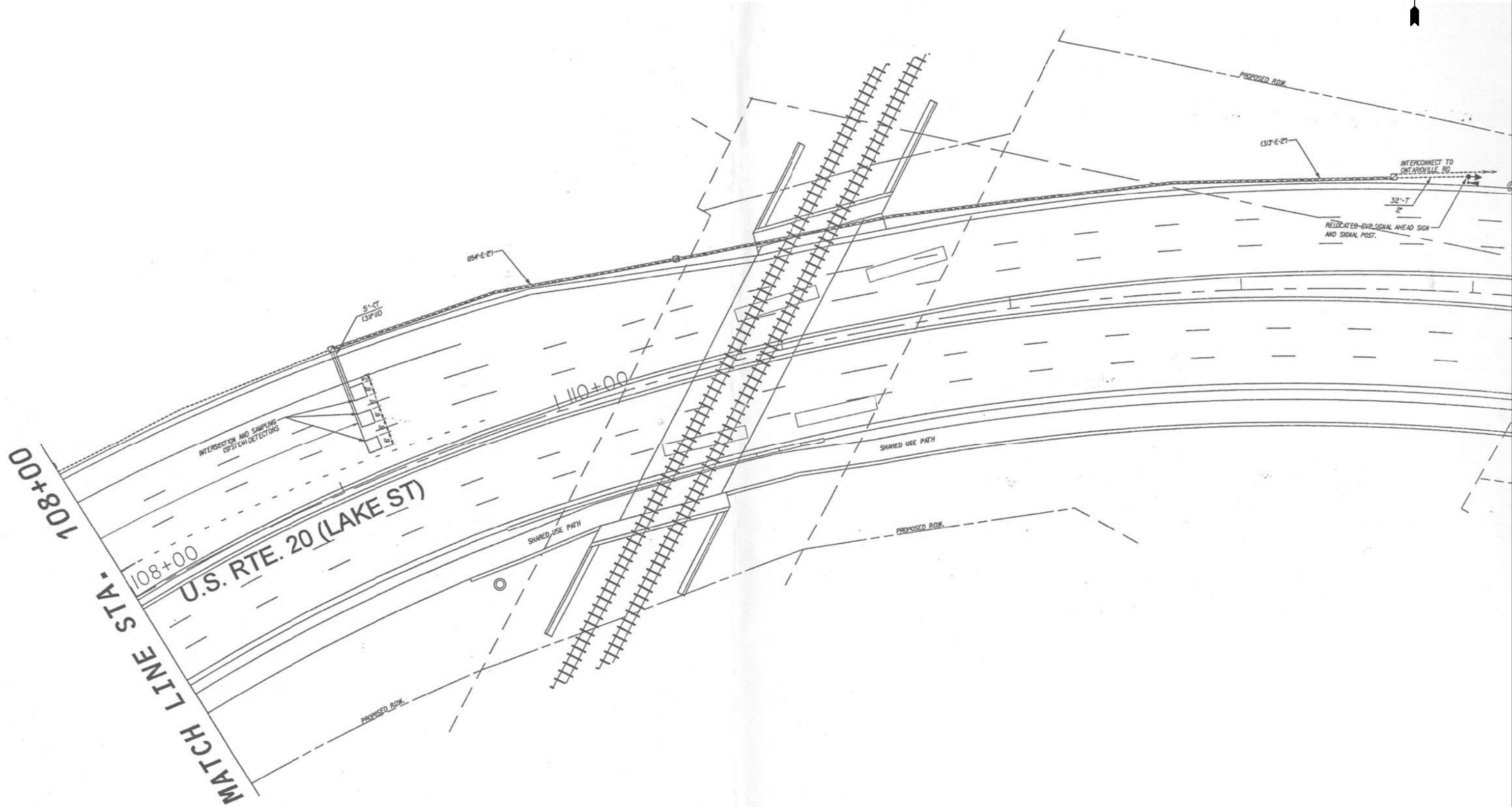
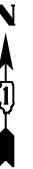
**LOCATION #15
BARRINGTON RD AT US RTE 20 (LAKE ST) INTERSECTION PLAN SHEET 2**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	65
CONTRACT NO. 62T54			ILLINOIS FED. AID PROJECT	

**TS 13765
IDOT TACTICS
FORMER EAGLE 5F**

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



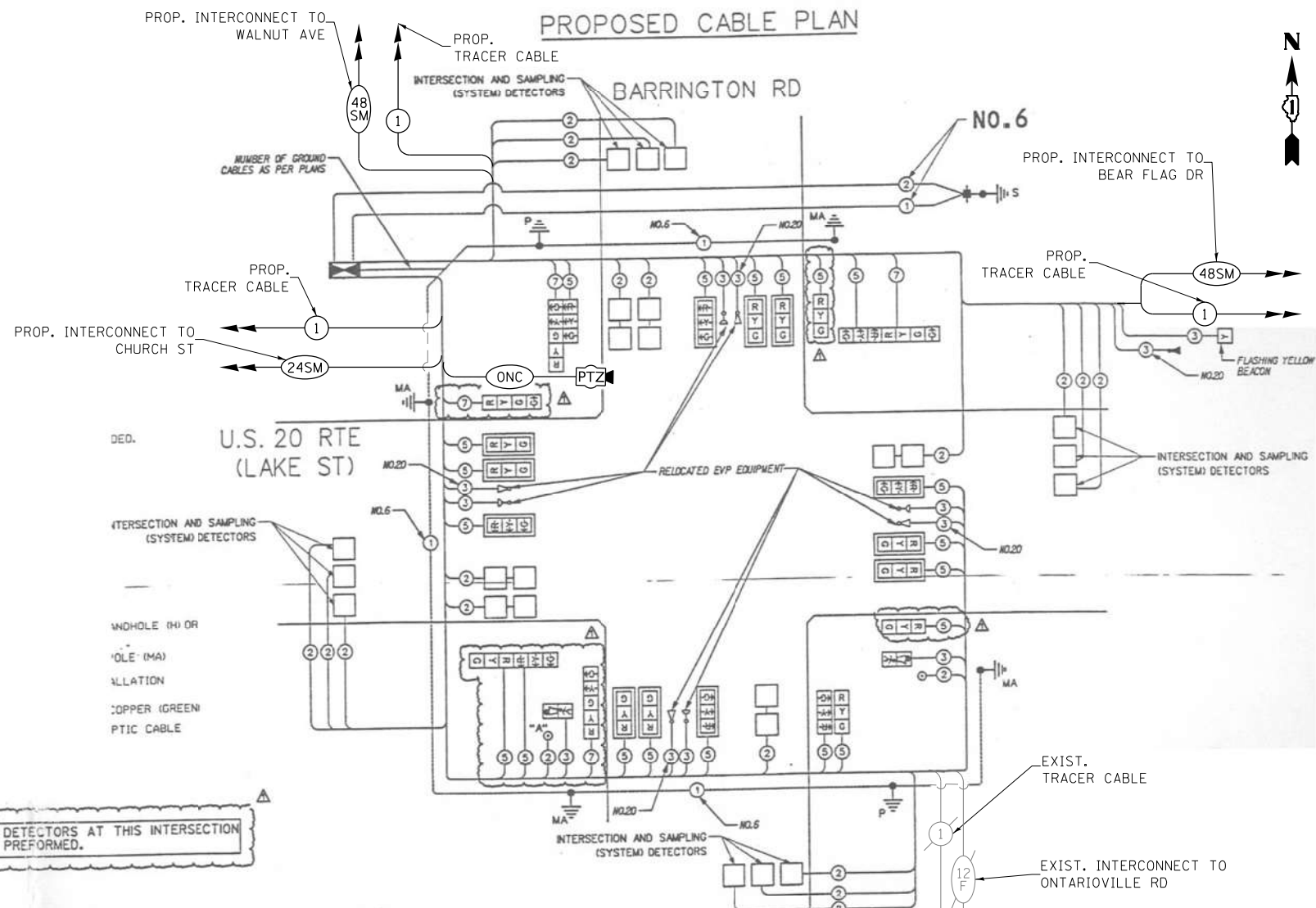
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**TS 13765
IDOT TACTICS
FORMER EAGLE 5F**

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER*	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #15 BARRINGTON RD AT US RTE 20 (LAKE ST) INTERSECTION PLAN SHEET 3			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		VAR	2023 TRAFFIC 02	VARIOUS	306	66			
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT						
						CONTRACT NO. 62T54						

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1064
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	116
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	48
LAYER III (NETWORK) SWITCH	EACH	1
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
TACTICS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

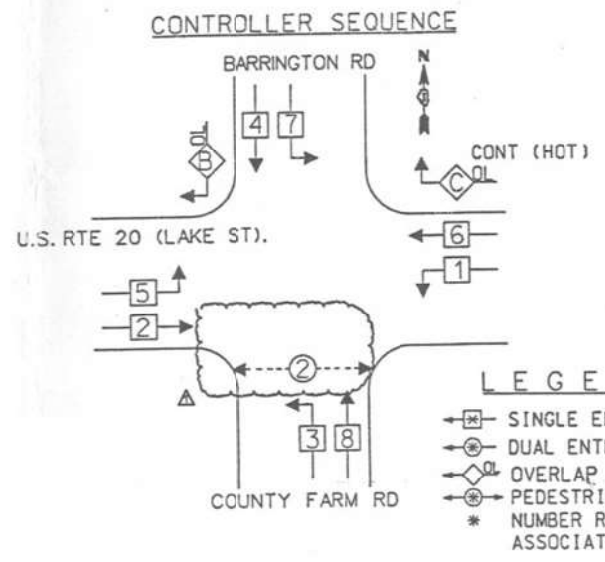


NOTE: ALL LOOP DETECTORS AT THIS INTERSECTION SHALL BE PREFORMED.

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

RIGHT TURN OVERLAP PHASE DESIGNATION

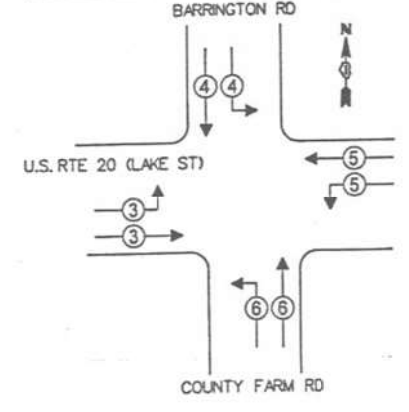
OVERLAP LETTER	PROTECTED PHASE
B	S
C	CONTINUOUS (HOT)



PHASE DESIGNATION DIAGRAM

- LEGEND**
- SINGLE ENTRY PHASE
 - DUAL ENTRY PHASE
 - OVERLAP
 - PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED	% OPERATIONS	
SIGNAL (RED)	15	135	17	0.50	127.5
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	30	135	12	0.10	36
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	513.5

VILLAGE OF HANOVER PARK
2121 W. LAKE ST
HANOVER PARK, ILLINOIS 60133
ENERGY SUPPLY - CONTACT: JUDY KNELL
PHONE: (630) 691-4608
COMPANY: COMED

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM00 Contracts Phase 2\CADD\Sheets\054-Barrington Rd at US Rte 20.CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISIONS -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISIONS -
	DATE - 10/31/2022	REVISIONS -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #15 BARRINGTON RD AT US RTE 20 (LAKE ST) CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

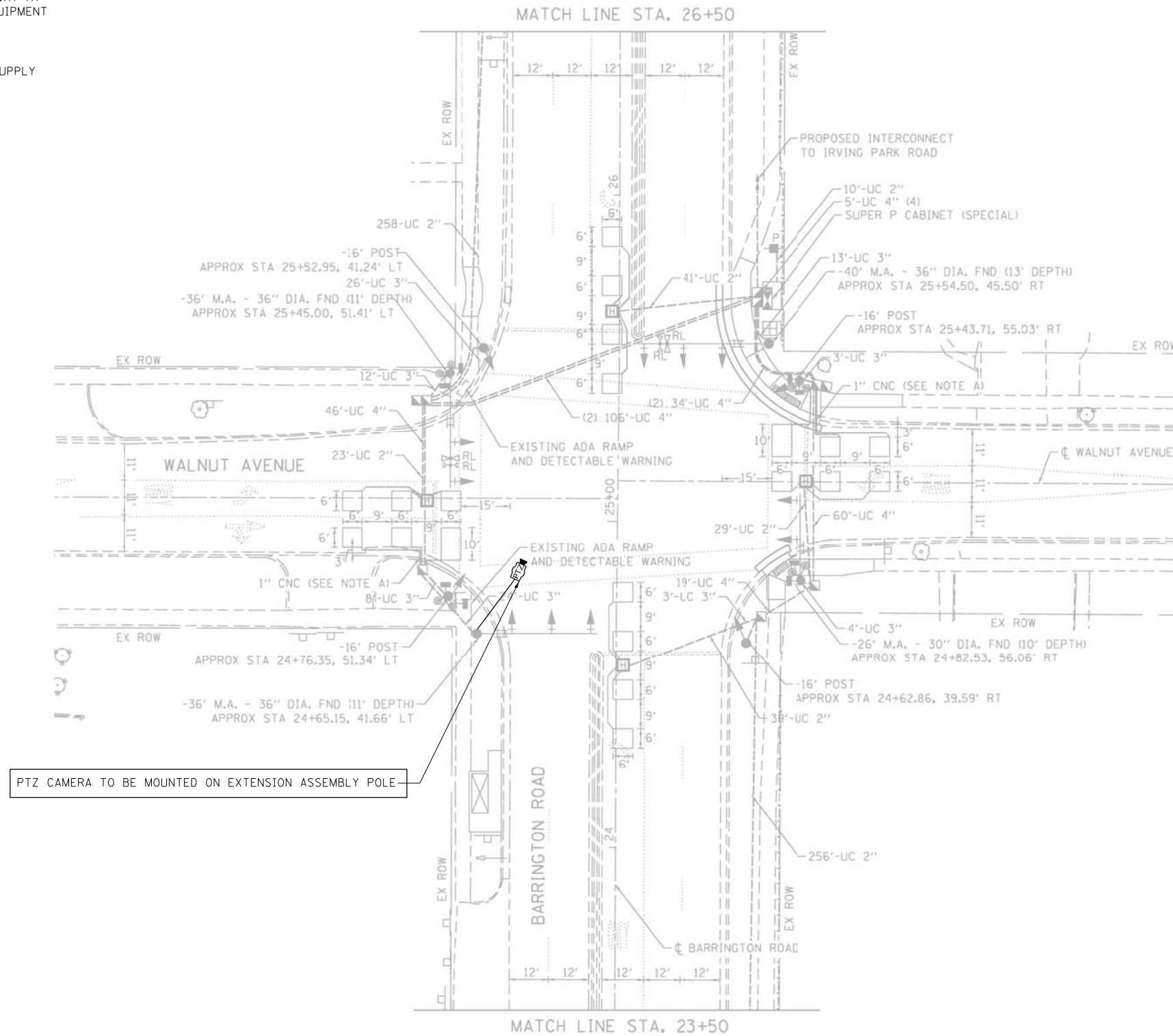
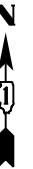
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	67
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 13765 IDOT TACTICS FORMER EAGLE 5F

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



NOTES:

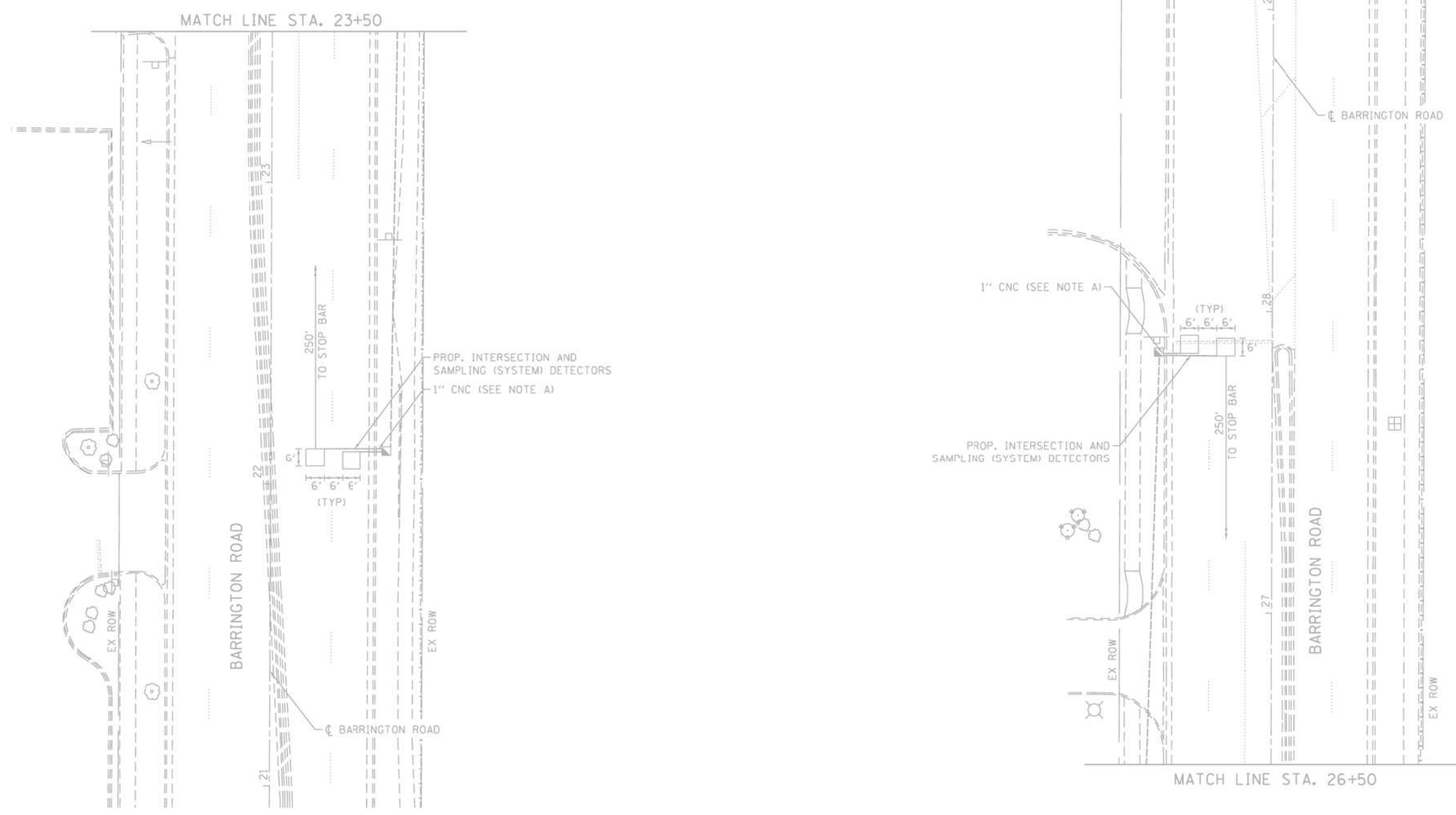
THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 13775
IDOT CENTRACS
FORMER ECON 158**

K:\PROJECTS\Projects 2022\22-ESR-502-IDOT-CM40-Contracts Phase 2\CADD\Sheets\085-Barrington Rd at Walnut Ave_INT.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #16 BARRINGTON RD AT WALNUT AVE INTERSECTION PLAN SHEET 1			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT												



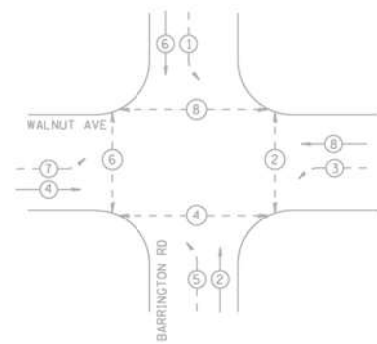
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 13775
IDOT CENTRACS
FORMER ECON 158

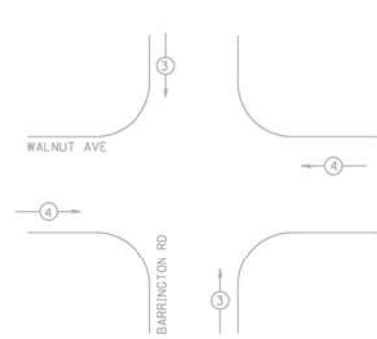
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	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773/774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #16 BARRINGTON RD AT WALNUT AVE INTERSECTION PLAN SHEET 2			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		REVISED -	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -	REVISED -	REVISED -	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 62T54	69

PROPOSED CONTROLLER SEQUENCE



**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



LEGEND

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

**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	14	10	10	14.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	5.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	-	-	-	-
TOTAL =				685.6

ENERGY COST TO:

VILLAGE OF HANOVER PARK
2121 WEST LAKE STREET
HANOVER PARK, ILLINOIS 60133

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

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	266
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

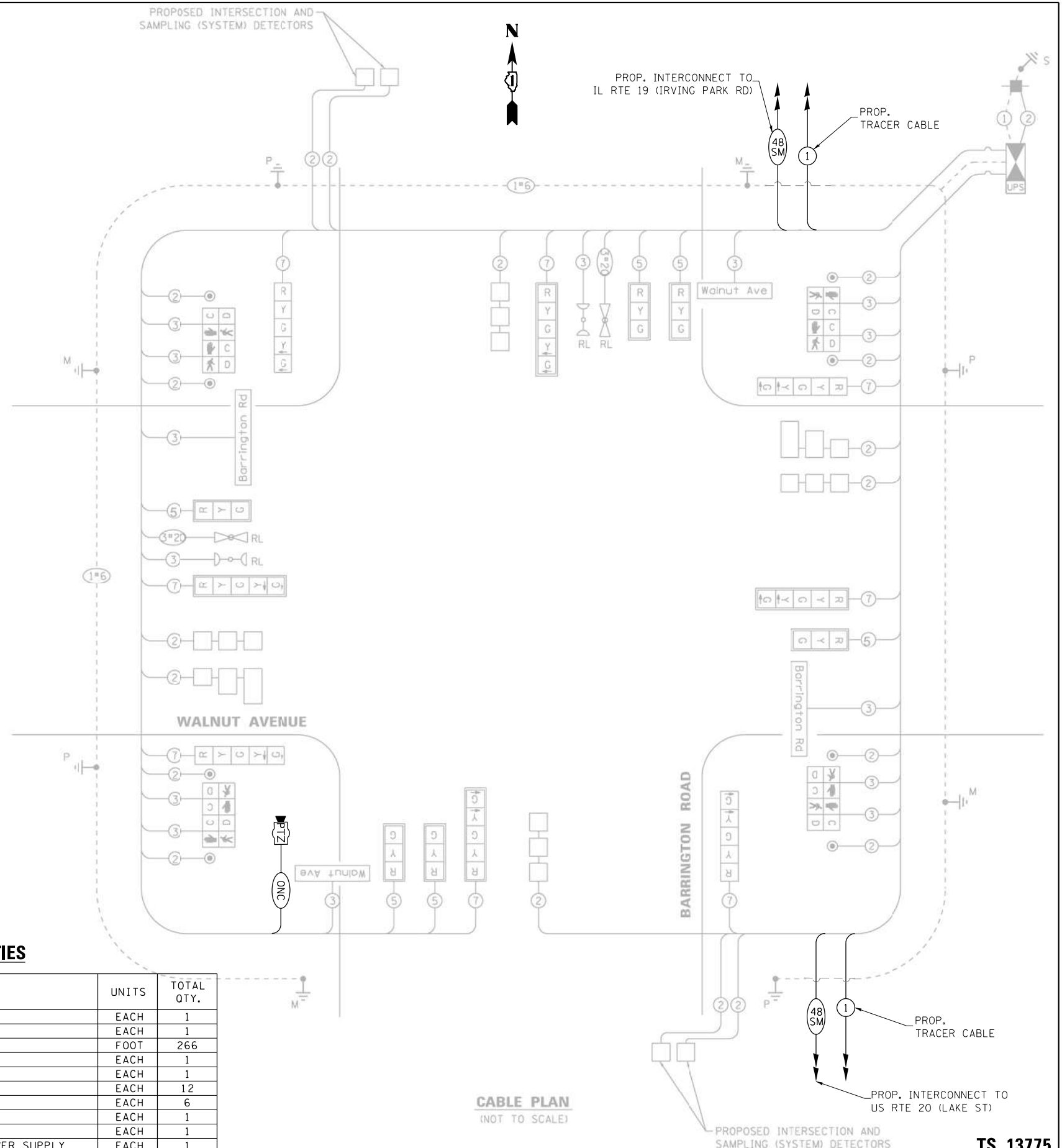
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #16
BARRINGTON RD AT WALNUT AVE CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	70
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 13775
IDOT CENTRACS
FORMER ECON 158**



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM00_Centrac Phase 2\CADD_Sheets\057-Barrington Rd at Walnut Ave_CD.dgn

GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = #USER#	DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV <td>REVISION - <td></td> </td>	REVISION - <td></td>	
PLOT SCALE = 40.0000' / in. <td>CHECKED - MS <td>REVISION -</td> </td>	CHECKED - MS <td>REVISION -</td>	REVISION -
PLOT DATE = #DATE# <td>DATE - 10/31/2022 <td>REVISION -</td> </td>	DATE - 10/31/2022 <td>REVISION -</td>	REVISION -

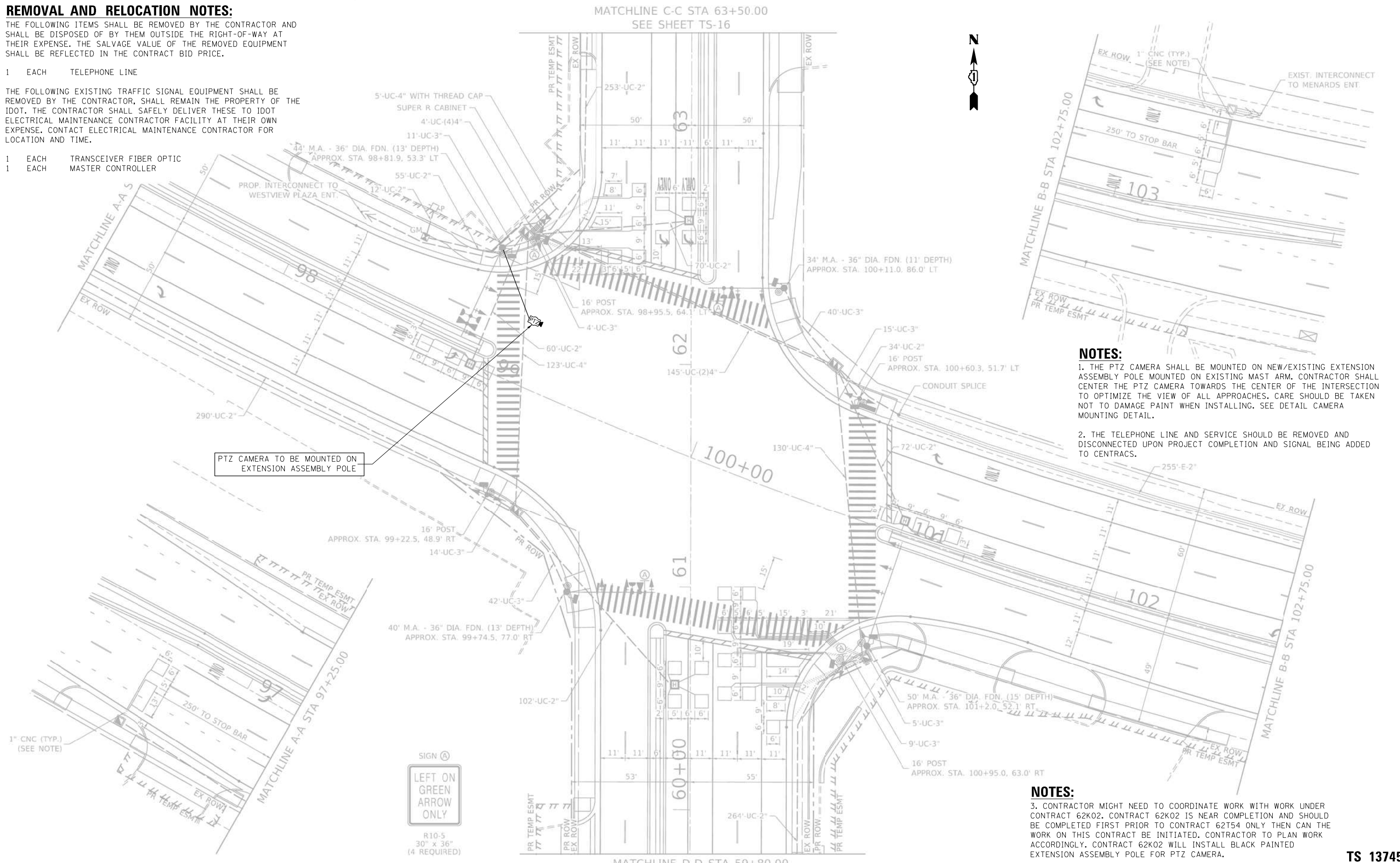
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TELEPHONE LINE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH MASTER CONTROLLER



NOTES:
 1. THE PTZ CAMERA SHALL BE MOUNTED ON NEW/EXISTING EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. CARE SHOULD BE TAKEN NOT TO DAMAGE PAINT WHEN INSTALLING. SEE DETAIL CAMERA MOUNTING DETAIL.
 2. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO CENTRACS.

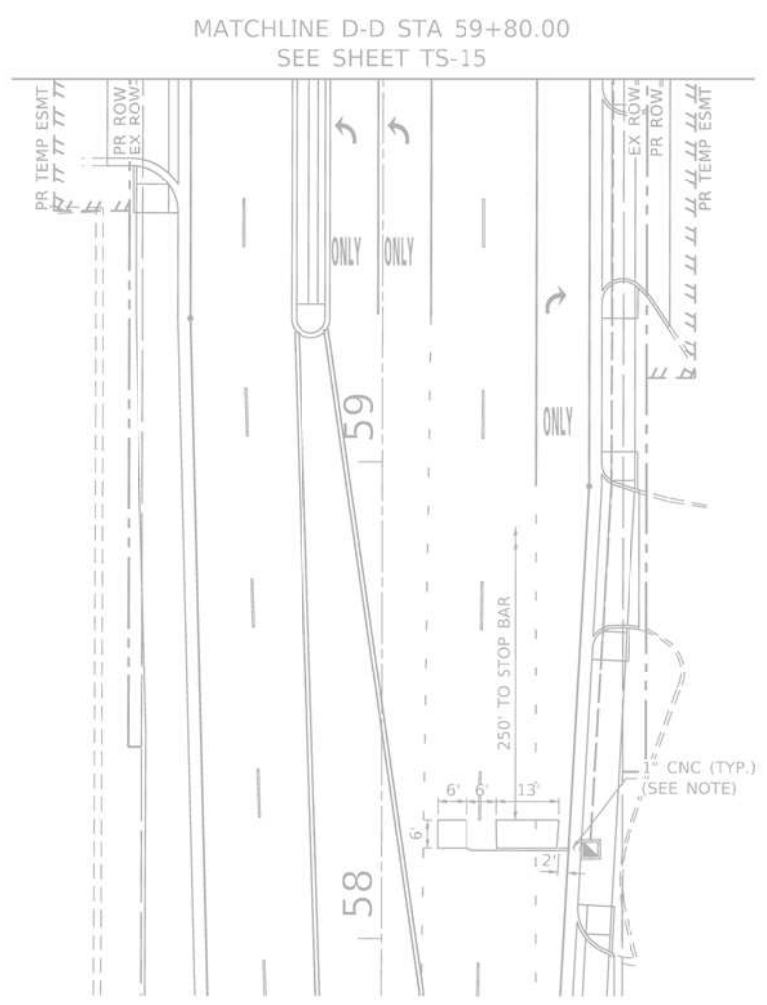
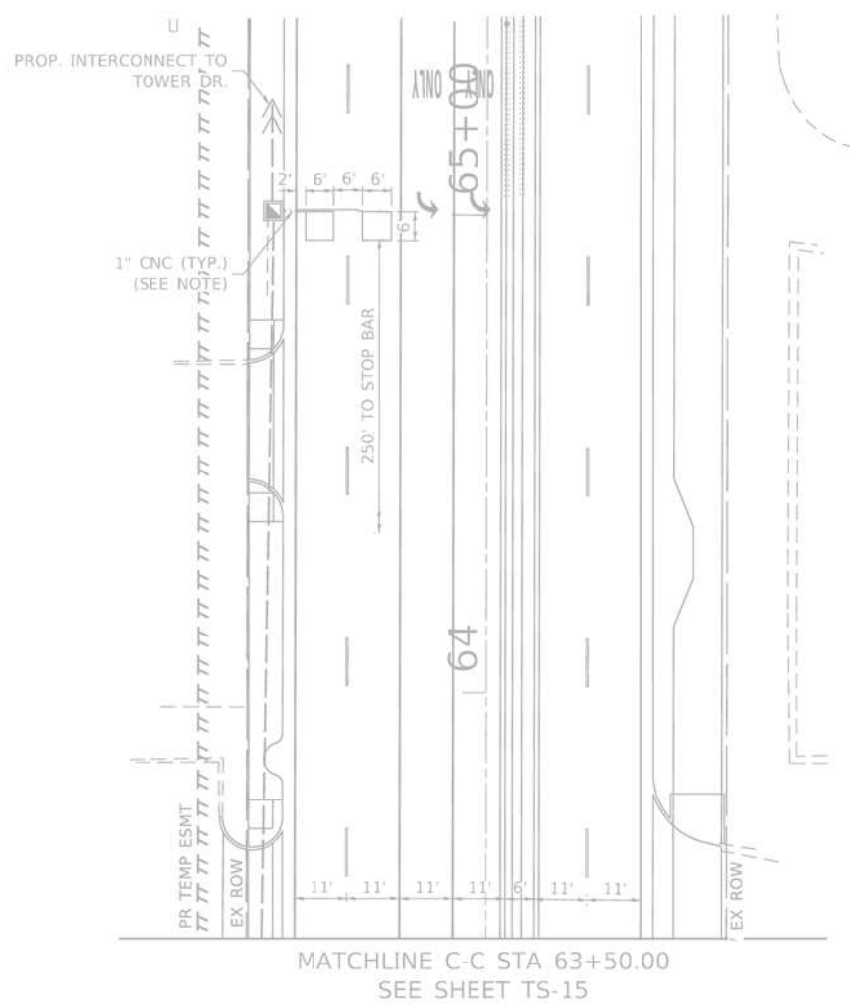
NOTES:
 3. CONTRACTOR MIGHT NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62K02. CONTRACT 62K02 IS NEAR COMPLETION AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY. CONTRACT 62K02 WILL INSTALL BLACK PAINTED EXTENSION ASSEMBLY POLE FOR PTZ CAMERA.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 13745
 IDOT CENTRACS
 FORMER ECON 158**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-902-1001.CM40 Contracts Phase 2\CADD\Sheets\058-Barrington Rd at IL Rte 19_INT.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5015 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60639 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #17 BARRINGTON RD AT IL RTE 19 (IRVING PARK RD) INTERSECTION PLAN SHEET 1			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT												



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 13745
 IDOT CENTRACS
 FORMER ECON 158

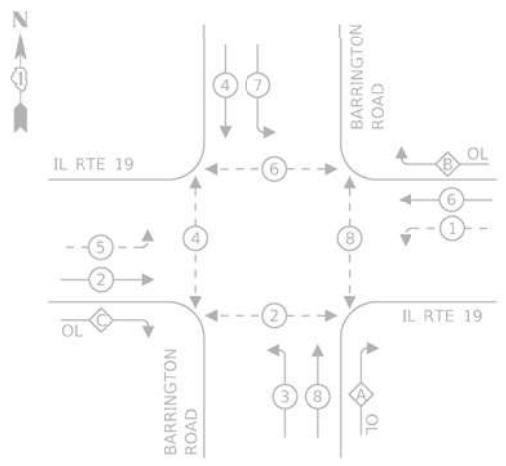
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GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #17 BARRINGTON RD AT IL RTE 19 (IRVING PARK RD) INTERSECTION PLAN SHEET 2			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS	306
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -											
								FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT					

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	80
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	48
LAYER III (NETWORK) SWITCH	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

PROPOSED CONTROLLER SEQUENCE



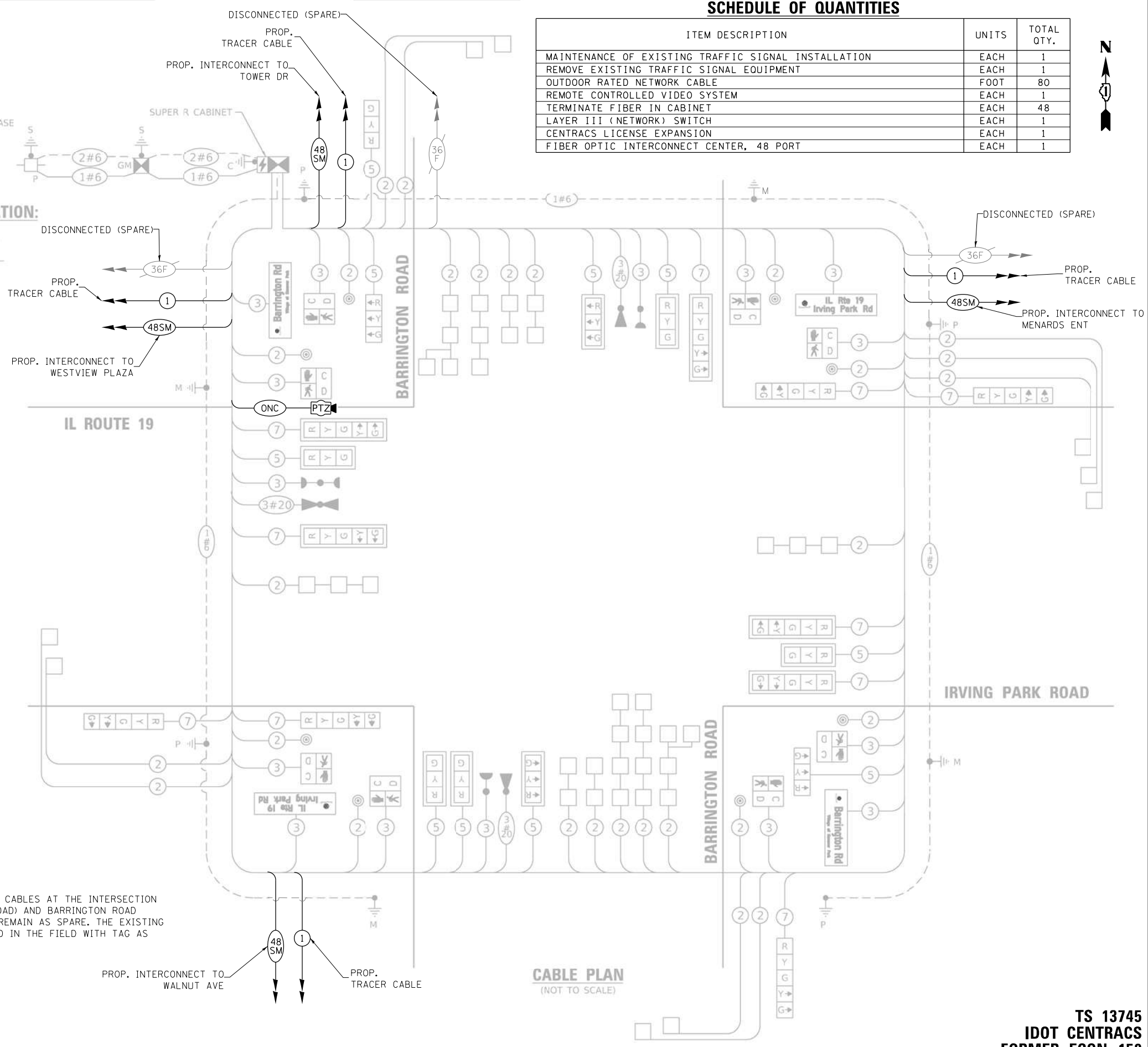
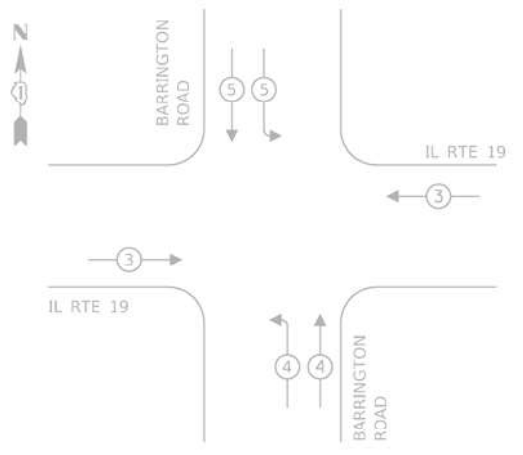
LEGEND:

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

OVERLAP PHASE DESIGNATION:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

NOTE:
THE EXISTING 36 FIBER OPTIC CABLES AT THE INTERSECTION OF IL RTE 19 (IRVING PARK ROAD) AND BARRINGTON ROAD SHALL BE DISCONNECTED AND REMAIN AS SPARE. THE EXISTING 36F CABLES SHALL BE LABELED IN THE FIELD WITH TAG AS IDOT FIBER SPARE.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	20	10	10	20.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240
LUMINAIRE	-	165	50	-
TOTAL =				783.0

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTRAL COURT
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: 630-424-5704
COMPANY: IDOT
TOWER ACCOUNT NUMBER: 69751-70057

GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

DESIGNED - EA	REVISED - 12-2-2022
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #17
BARRINGTON RD AT IL RTE 19 (IRVING PARK RD) CABLE PLAN
SHEET 1
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	73
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

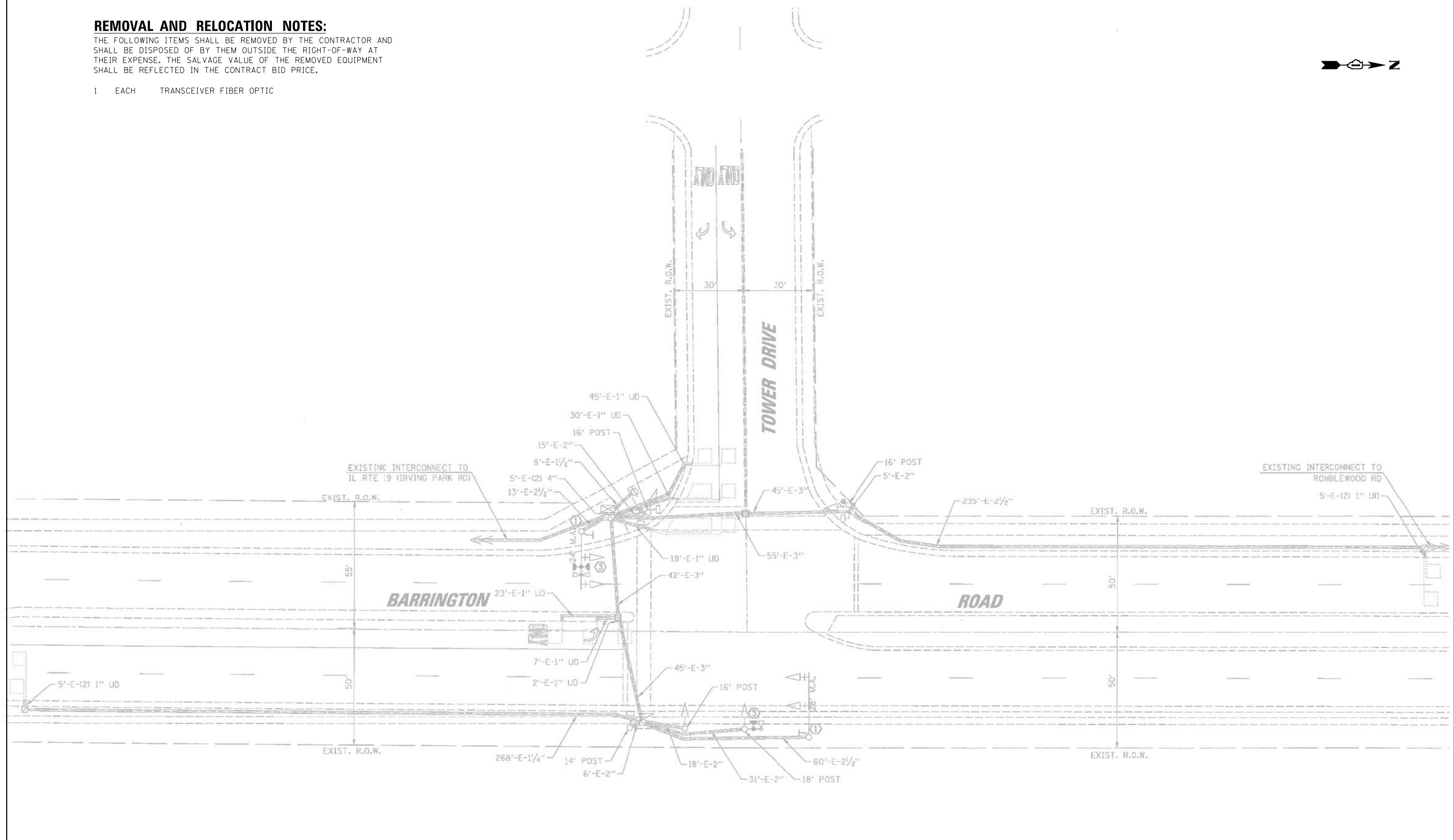
TS 13745
IDOT CENTRACS
FORMER ECON 158

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\060-Barrington Rd at IL Rte 19_CD.dgn

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC



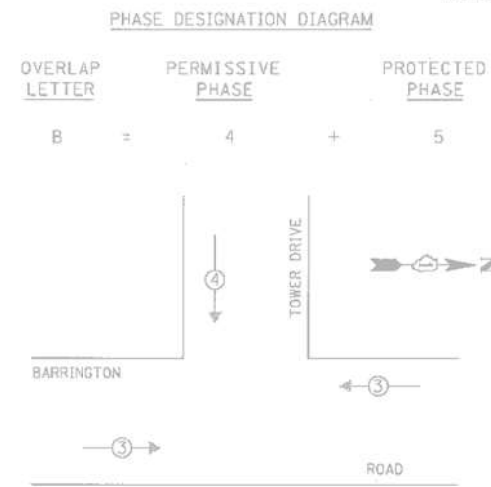
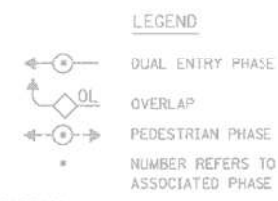
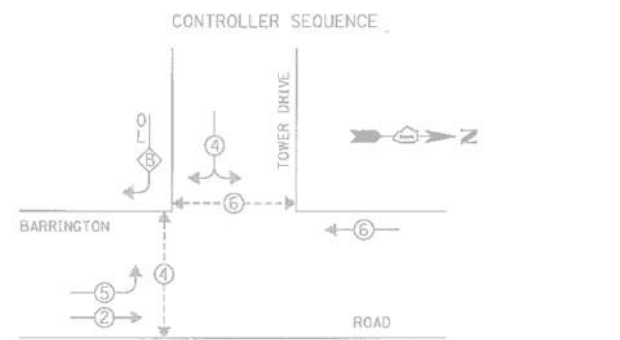
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 7860
IDOT CENTRACS
FORMER ECON 158**

K:\PROJECTS\Projects 2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\CADD\Sheets\062.Barrington Rd at Tower Dr-INT.dgn

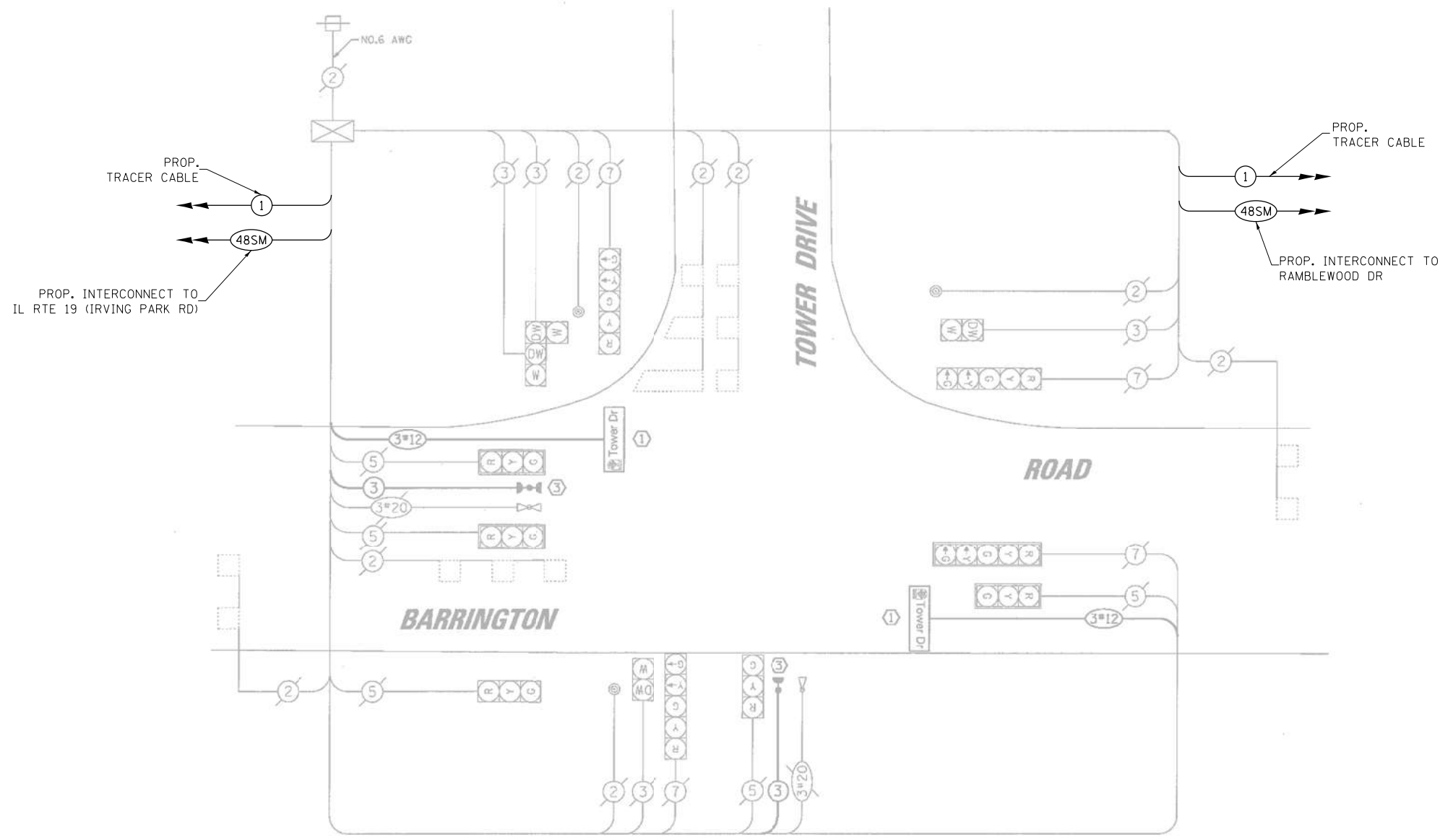
GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773-774-590	USER NAME = \$USER*	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #18 BARRINGTON RD AT TOWER DR INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / 1" / in.	CHECKED - MS	REVISED -		REVISED -	SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE*	DATE - 10/31/2022	REVISED -	REVISED -								CONTRACT NO. 62T54		
										FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-602-101.CM40 Contracs Phase 2\CADD_Sheets\063.Barrington Rd at Tower Dr-CD.dgn



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED	% OPERATION	
SIGNAL (RED)	9		17	0.50	76.50
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	8		12	0.10	9.50
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	2		25	0.05	2.50
VIDEO SYSTEM	-		150	1.00	-
BATTERY BACKUP SYSTEM				1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	378.50

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (847) 608-2400
 COMPANY: COMED



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

CABLE PLAN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #18 BARRINGTON RD AT TOWER DR CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02		306	75
CONTRACT NO. 62T54				

FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

TS 7860 IDOT CENTRACS FORMER ECON 158



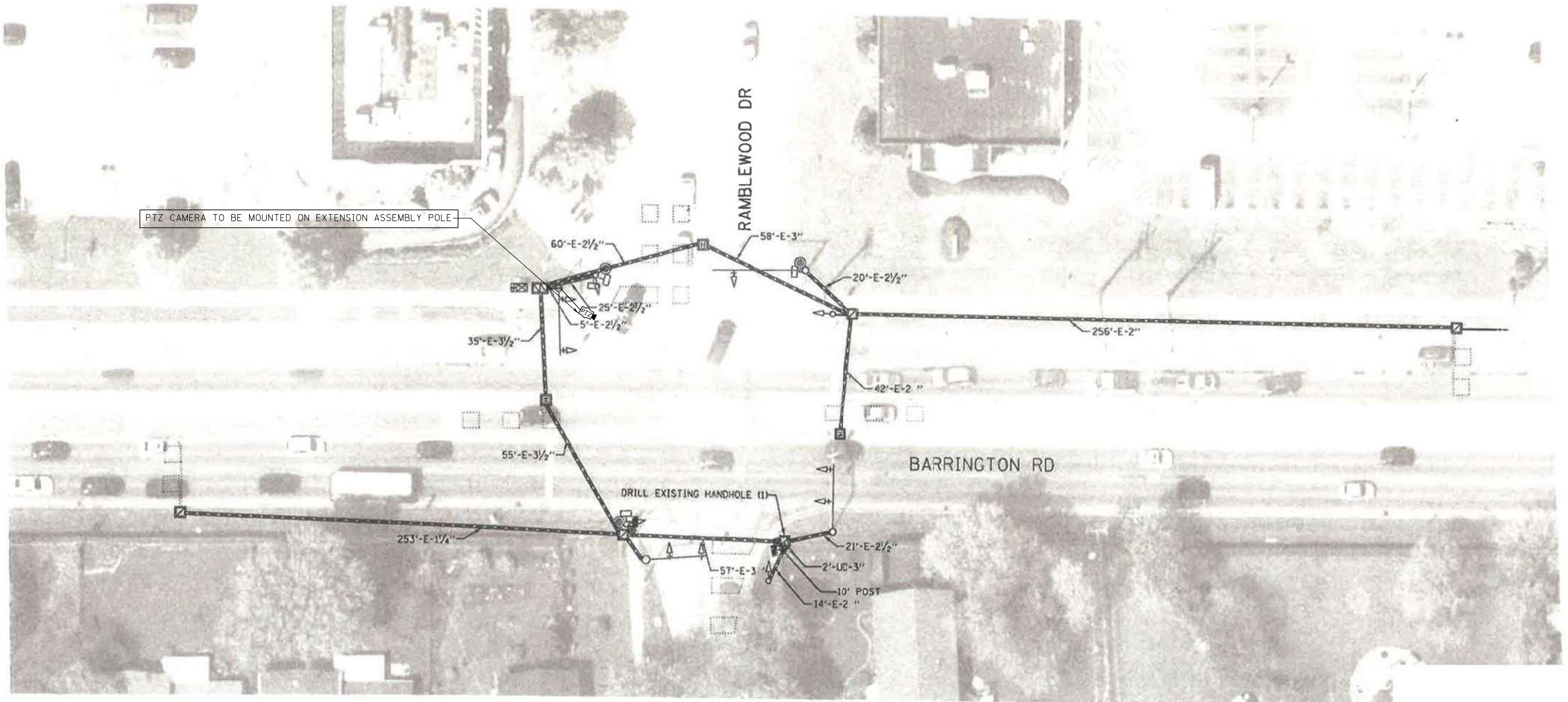
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PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY



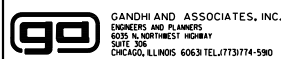
NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE EXTENSION ASSEMBLY POLE MOUNTED ON EXISTING MAST ARM. CONTRACTOR SHALL CENTER THE PTZ CAMERA TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL APPROACHES. SEE DETAIL CAMERA MOUNTING DETAIL.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 21285
IDOT CENTRACS
FORMER ECON 158**

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\064-Barrington Rd at Ramblewood Dr-INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISOR -	
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PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISOR -

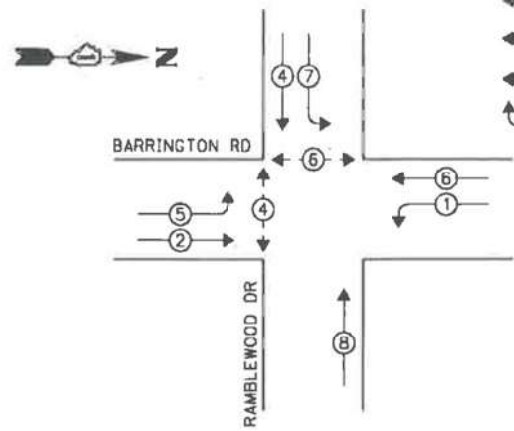
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #19
BARRINGTON RD AT RAMBLEWOOD DR INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

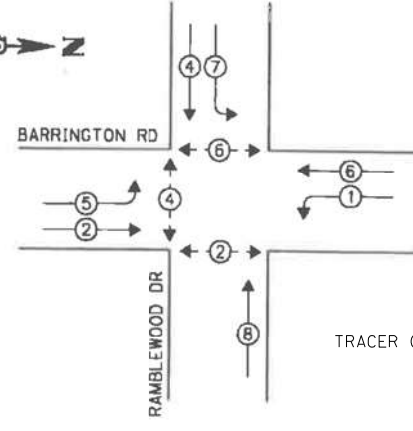
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	76
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



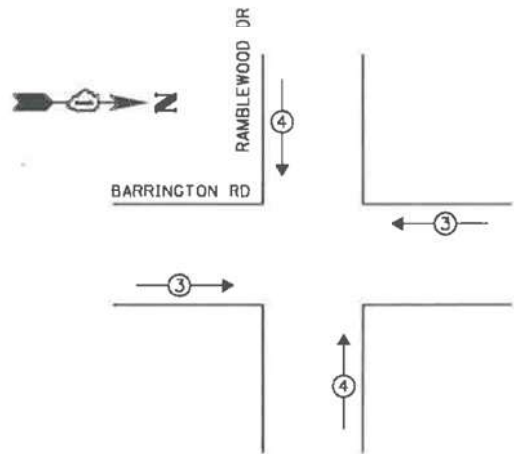
LEGEND:

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◉ PEDESTRIAN PHASE
- ◊ OVERLAP



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	6	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				438.9

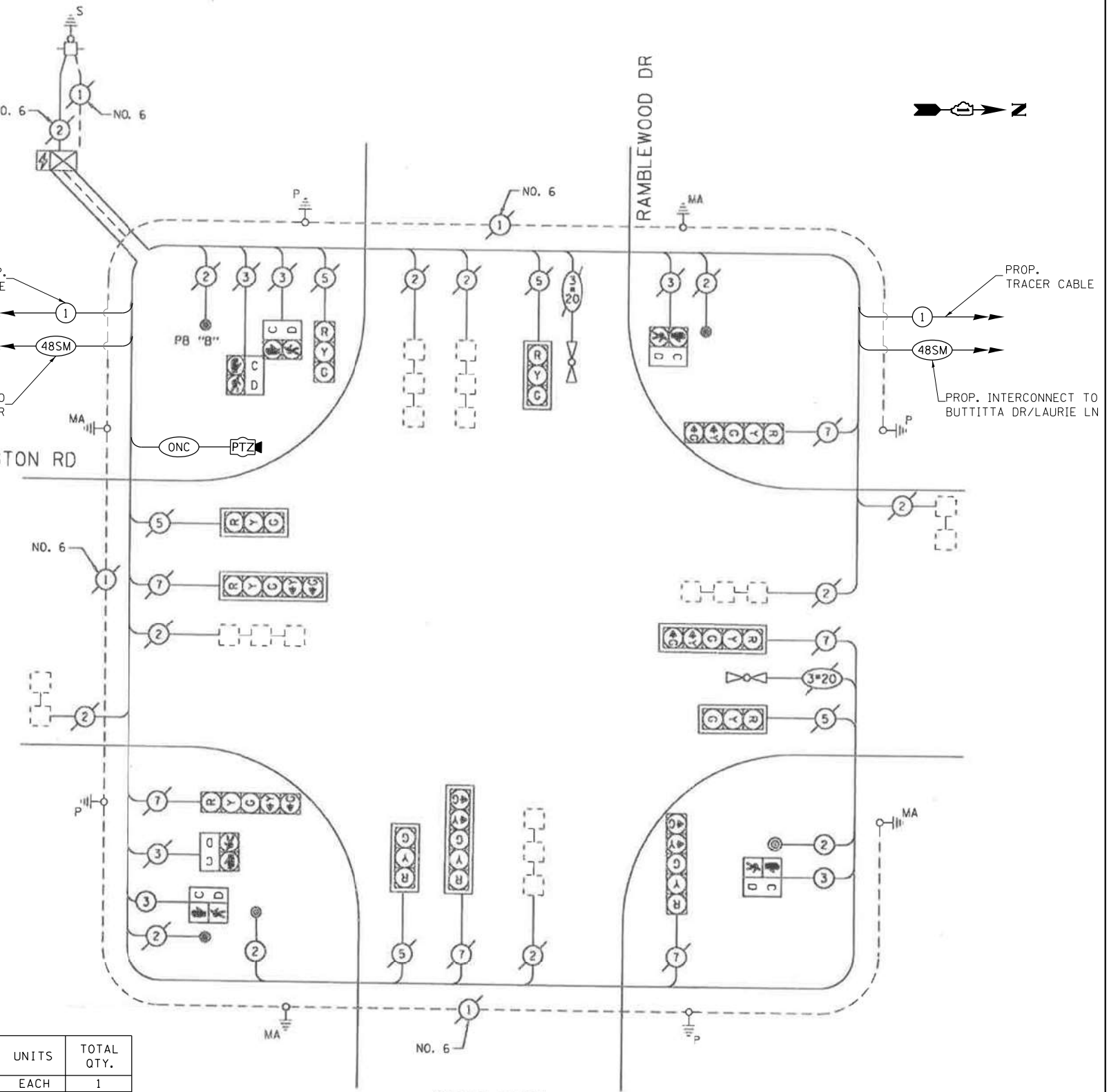
ENERGY COSTS TO:

VILLAGE OF STREAMWOOD
301 E. IRVING PARK RD
STREAMWOOD, IL 60107

ENERGY SUPPLY: CONTACT: JOE STACHO
PHONE: (630) 424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	85
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #19
BARRINGTON RD AT RAMBLEWOOD DR CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	77
CONTRACT NO. 62T54				

TS 21285
IDOT CENTRACS
FORMER ECON 158

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

FILE NAME: K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\085.Barrington Rd at Ramblewood Dr.Caddgn

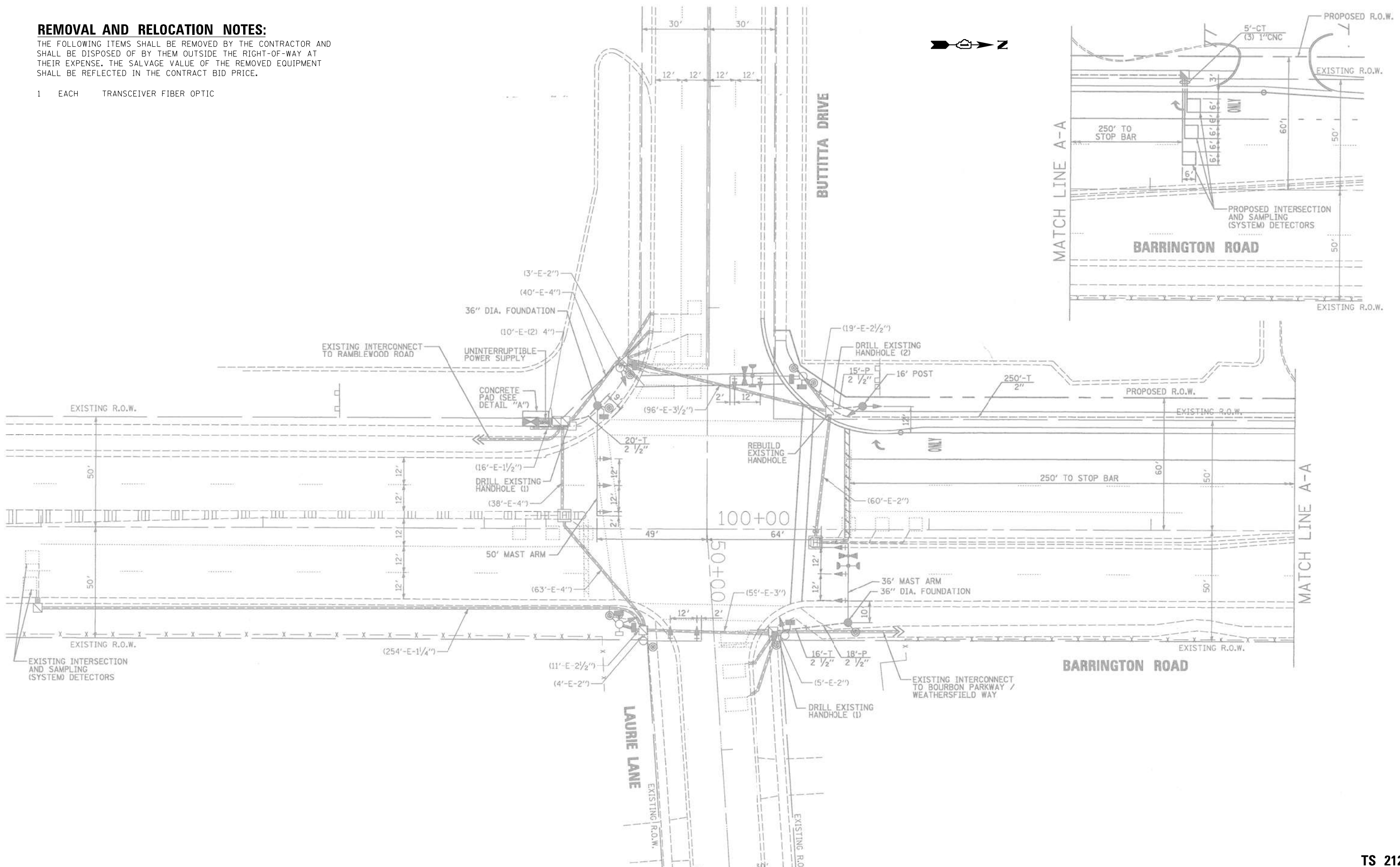
GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5015 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$
DESIGNED - EA
DRAWN - EA, AV
PLOT SCALE = 40.0000' / in.
CHECKED - MS
DATE - 10/31/2022
REVISD -
REVISD -
REVISD -
REVISD -

REMOVAL AND RELOCATION NOTES:

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

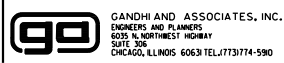
- 1 EACH TRANSCEIVER FIBER OPTIC



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 21280
IDOT CENTRACS
FORMER ECON 158

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\086-Barrington Rd at Laurie Ln_INT.dgn



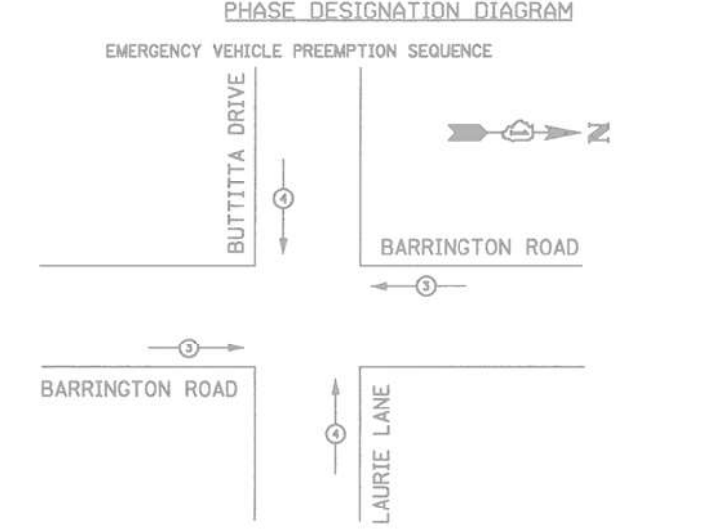
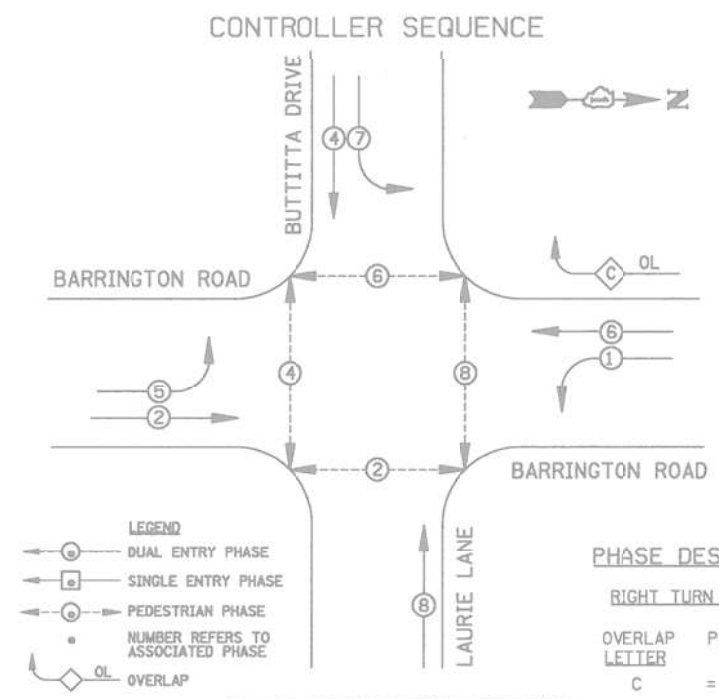
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PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE*	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #20
BARRINGTON RD AT BUTTITTA DR/LAURIE LN INTERSECTION PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	78
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 62T54	

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-602-101.CM40.Contracts\Phase 2\CADD\Sheets\067-Barrington Rd at Laurie Ln.Caddgn



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	WATTAGE LED	XOPERATION	
SIGNAL (RED)	15	135	17	0.50	127.5
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 W. CENTER COURT SCHAUMBURG, IL 60196					TOTAL = 596.7
ENERGY SUPPLY CONTACT: _____					
PHONE: _____					
COMPANY: COMED					

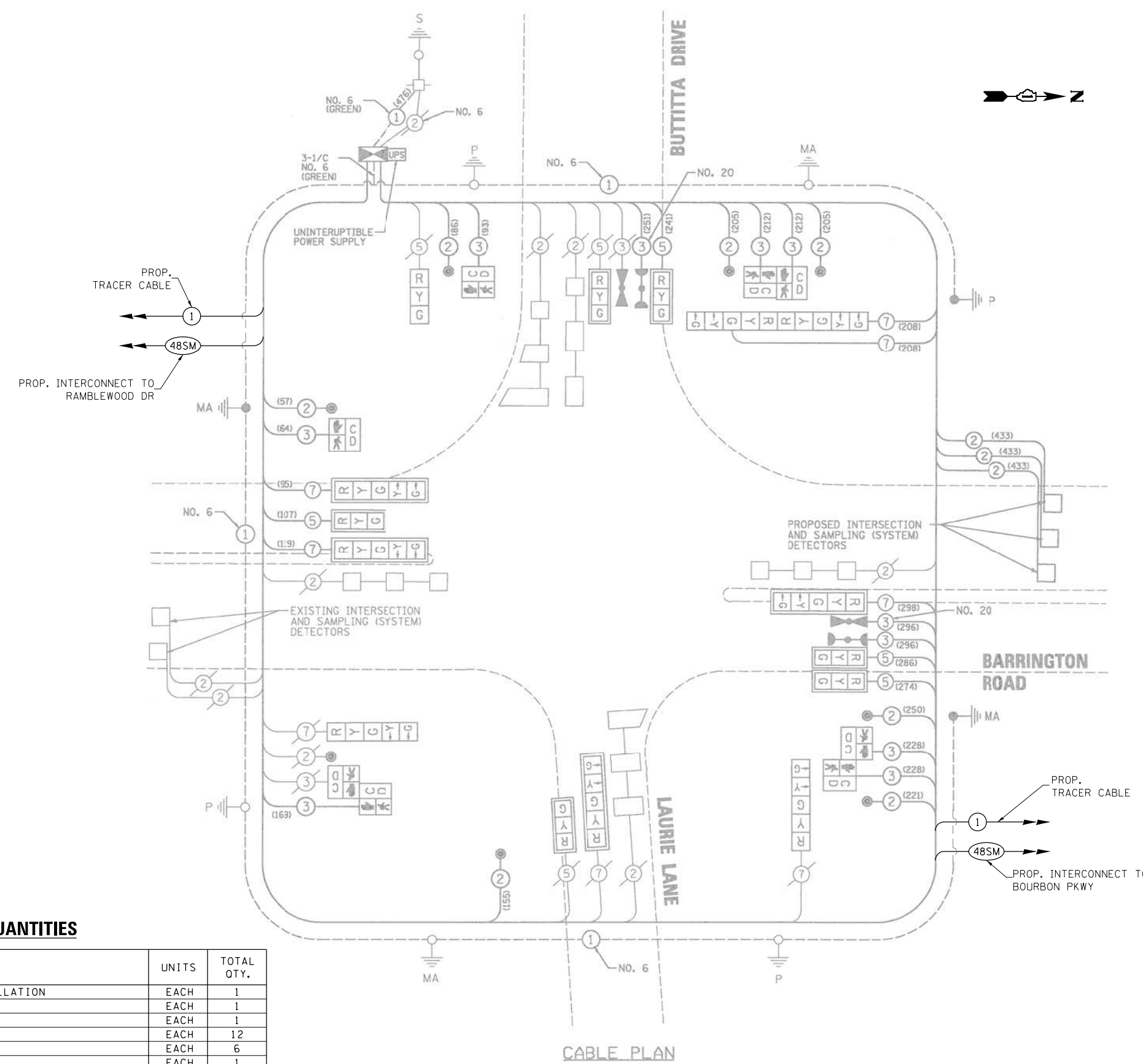
PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP DESIGNATION

OVERLAP LETTER: C = 6 + 7

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #20
BARRINGTON RD AT BUTTITTA DR/LAURIE LN CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	79
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900

USER NAME = \$USER\$
DESIGNED - EA
DRAWN - EA, AV
CHECKED - MS
DATE - 10/31/2022

REVISED -
REVISED -
REVISED -
REVISED -

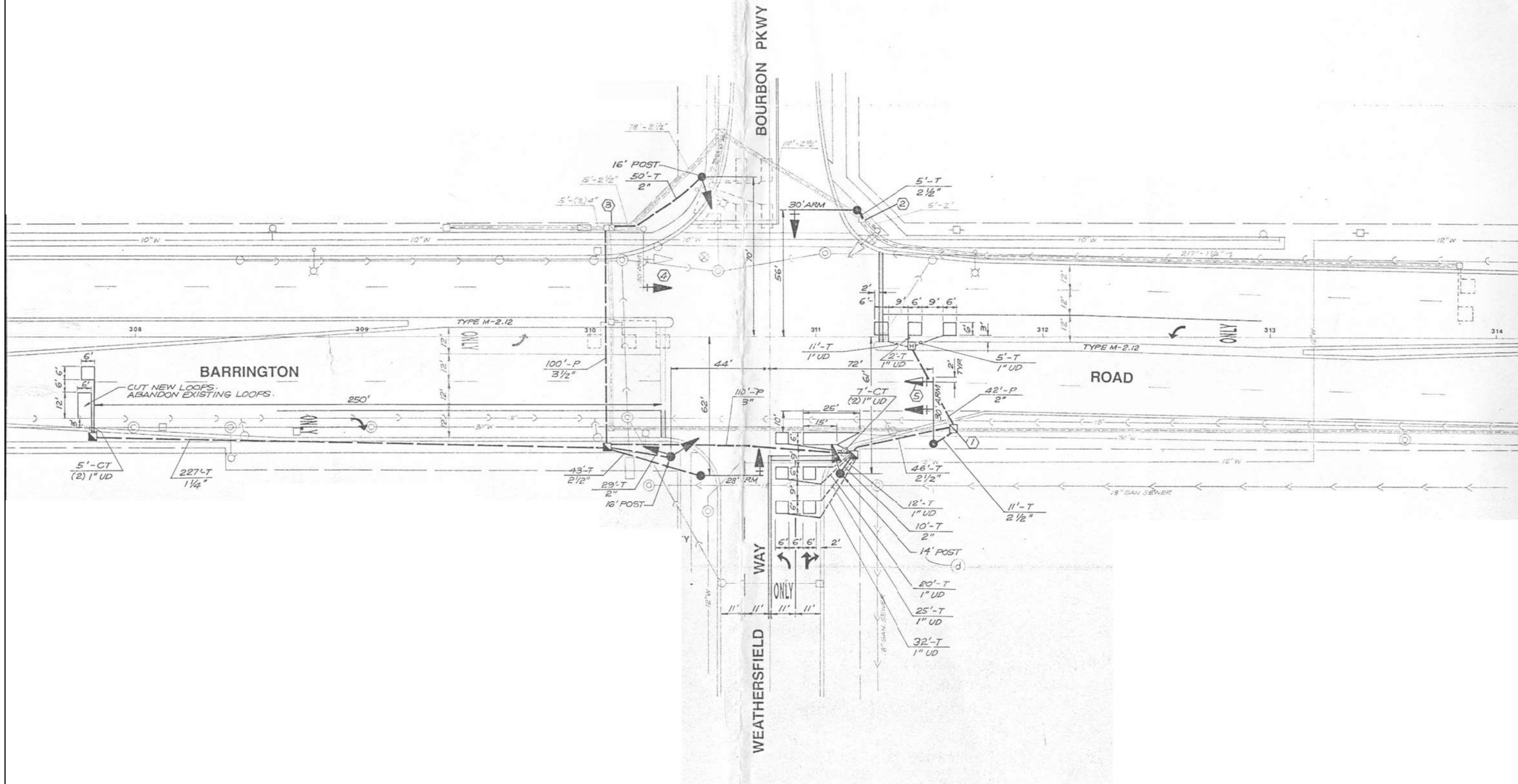
**TS 21280
IDOT CENTRACS
FORMER ECON 158**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC



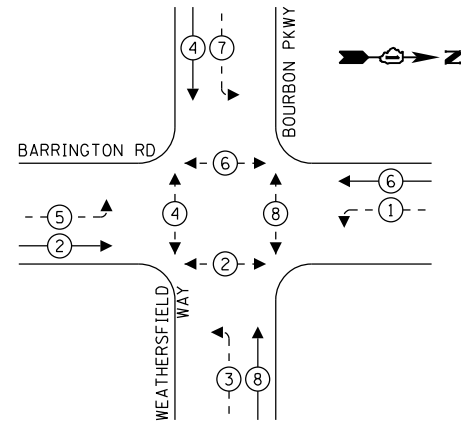
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4165
IDOT CENTRACS
FORMER ECON 158

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\088-Barrington Rd at Bourbon Pkwy.INT.dgn

<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: 773-774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	LOCATION #21 BARRINGTON RD AT BOURBON PKWY/WEATHERSFIELD WAY INTERSECTION PLAN			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -										CONTRACT NO. 62T54
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT												

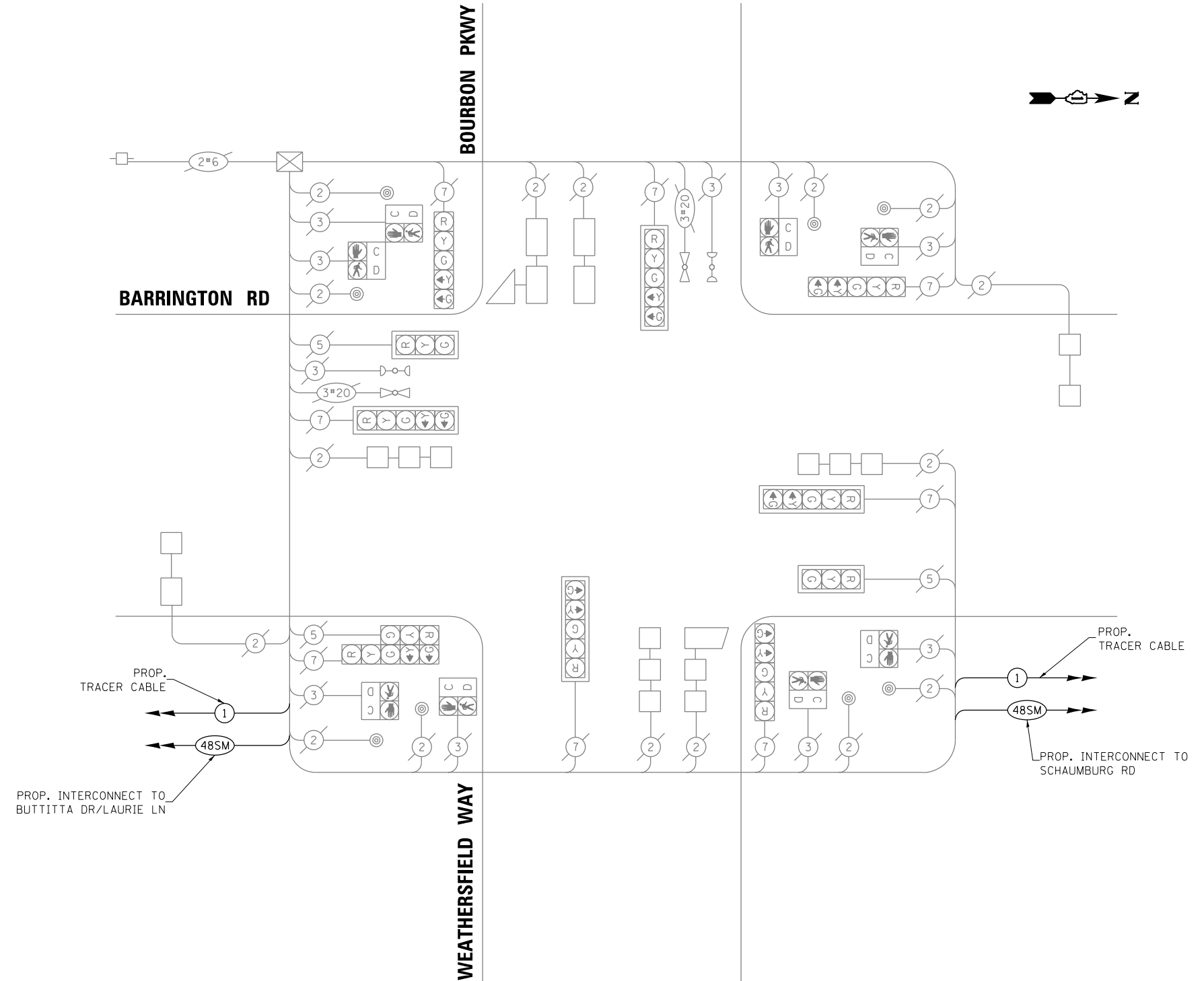
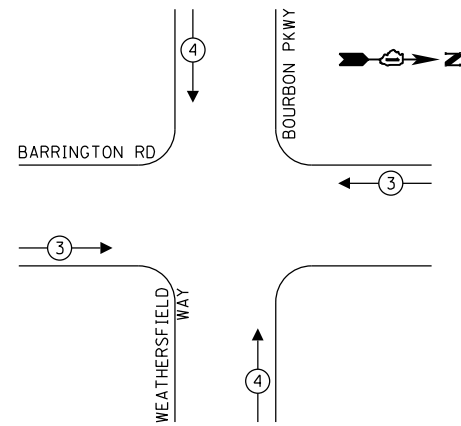
EXISTING CONTROLLER SEQUENCE



LEGEND:

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

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



CABLE PLAN
(NOT TO SCALE)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #21
BARRINGTON RD AT BOURBON PKWY/WEATHERSFIELD WAY CABLE PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	81
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 62T54	

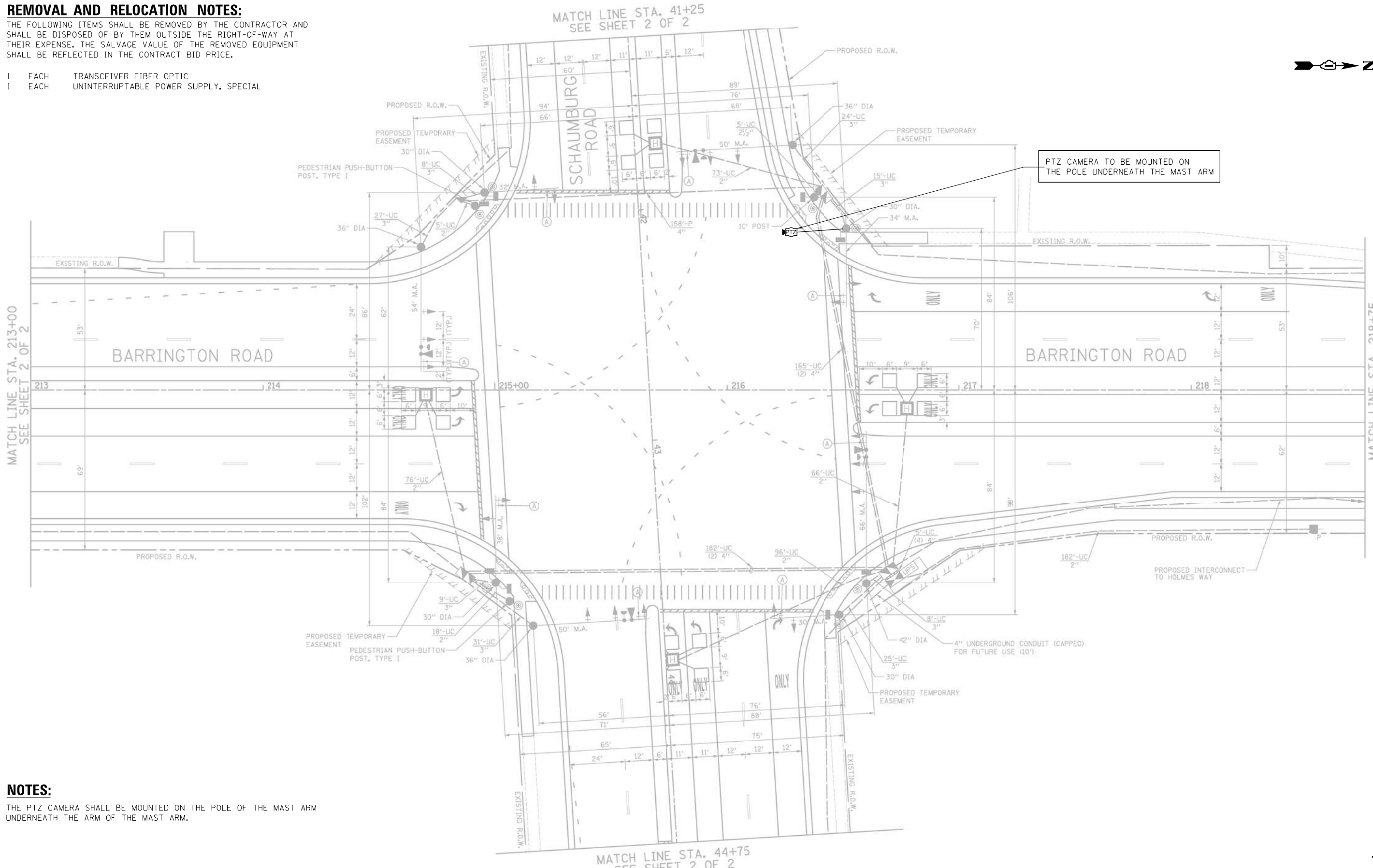
**TS 4165
IDOT CENTRACS
FORMER ECON 158**

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
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PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL



NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.

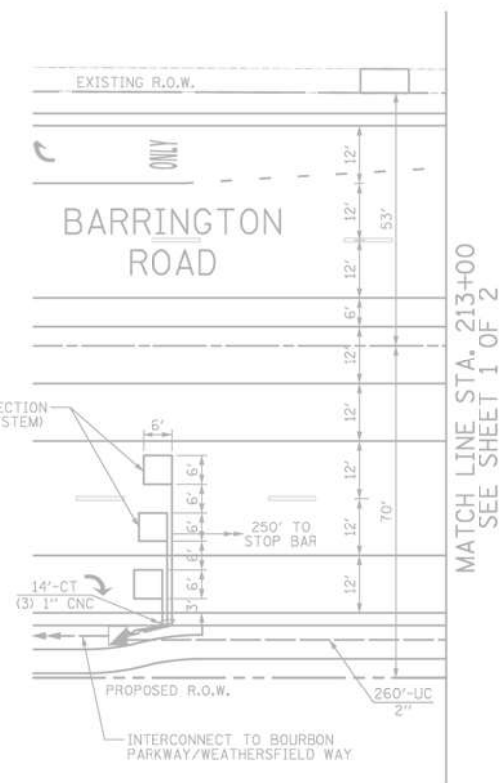
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 4180
IDOT CENTRACS
FORMER ECON 158**

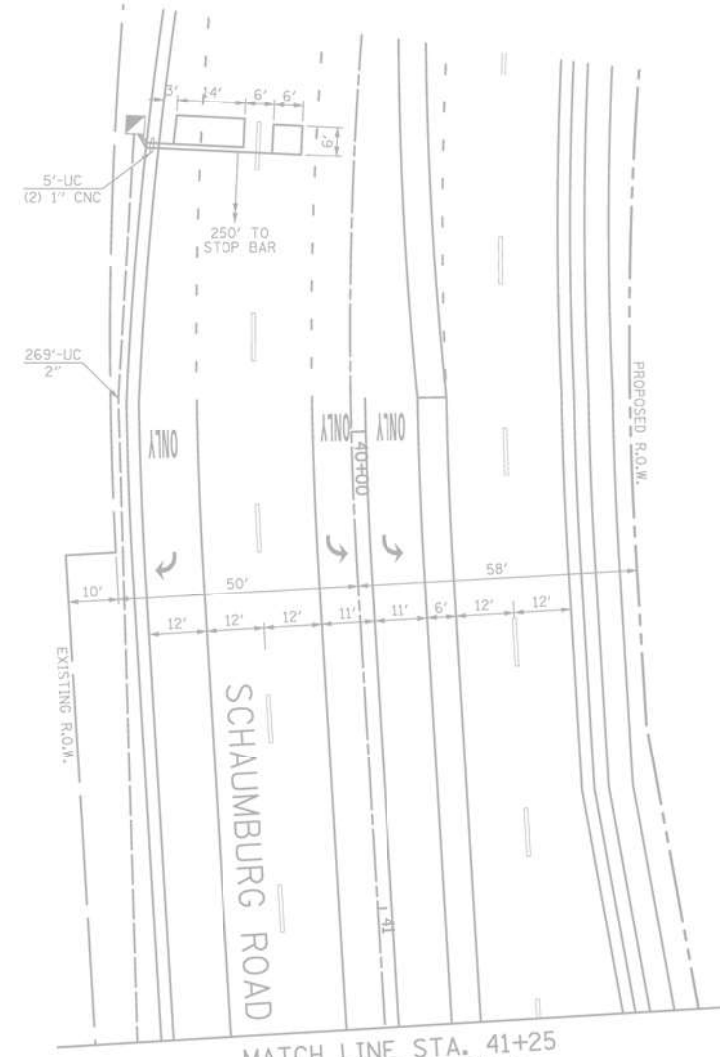
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GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #22 BARRINGTON RD AT SCHAUMBURG RD INTERSECTION PLAN SHEET 1			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -									CONTRACT NO. 62T54	
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT												

MATCH LINE STA. 218+75
SEE SHEET 1 OF 2



MATCH LINE STA. 44+75
SEE SHEET 1 OF 2



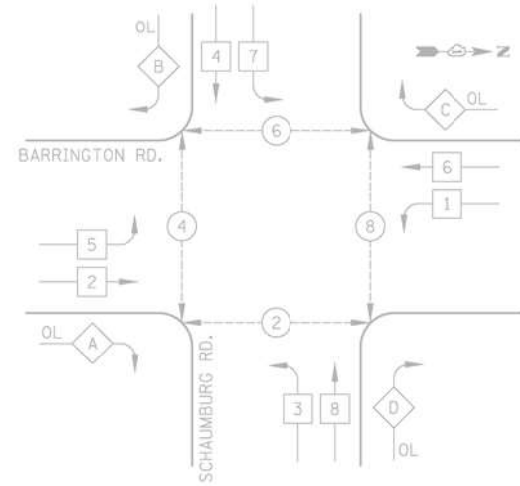
"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4180
IDOT CENTRACS
FORMER ECON 158

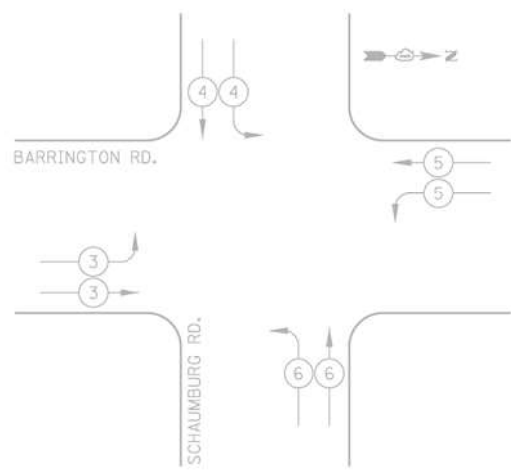
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<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 205 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">LOCATION #22 BARRINGTON RD AT SCHAUMBURG RD INTERSECTION PLAN SHEET 2</p>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.	VAR	2023 TRAFFIC 02	VARIOUS	306
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -					<p align="center">CONTRACT NO. 62T54</p>					
								<p>FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT</p>				

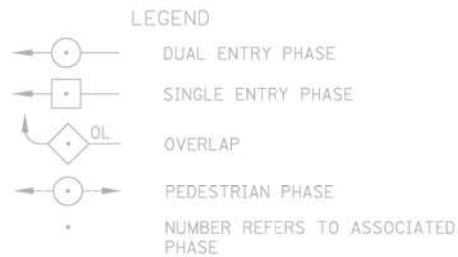
PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	←	↓	→	↑



PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

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

SCHEDULE OF QUANTITIES

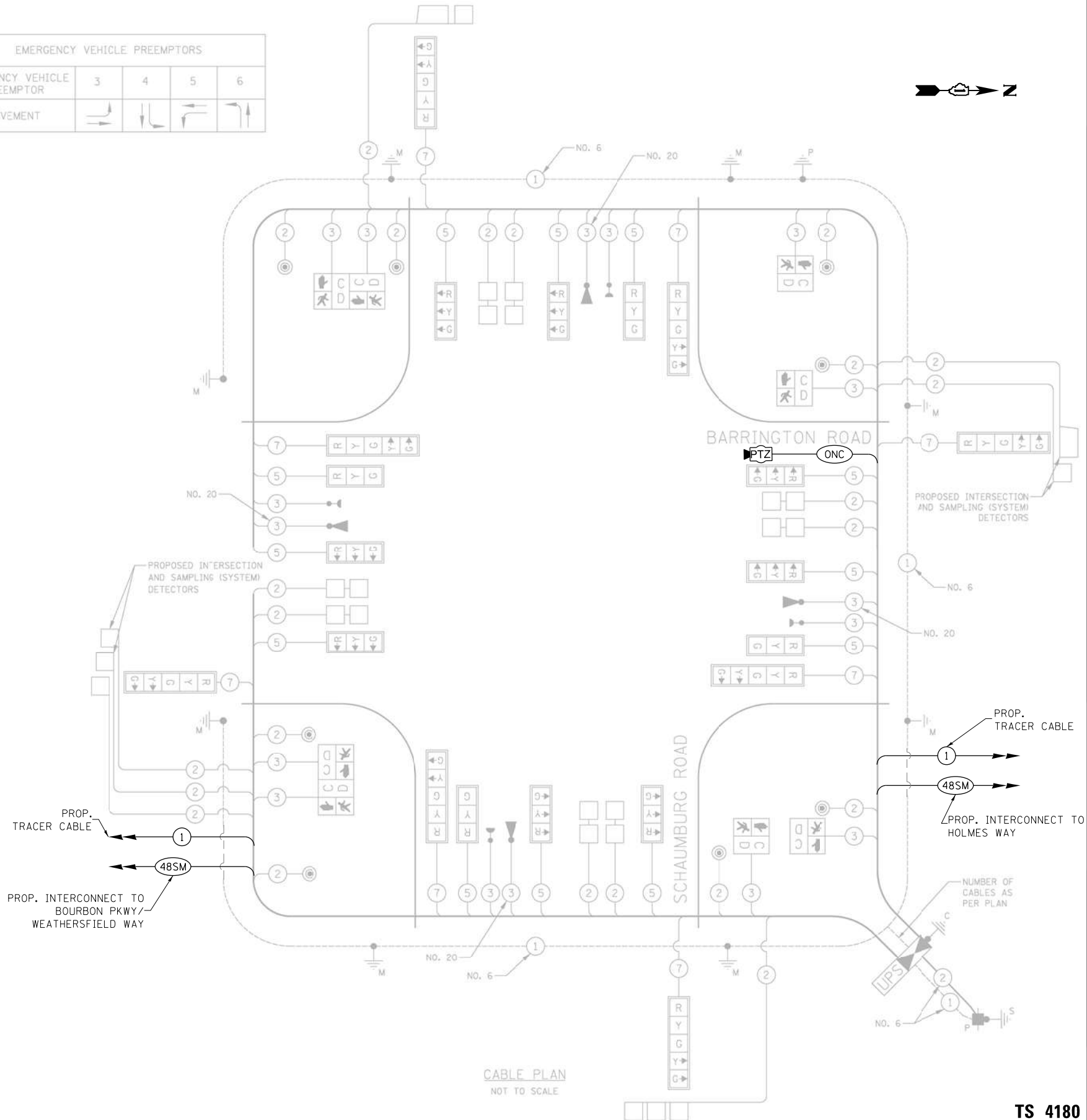
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	243
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	17	0.50		170
(YELLOW)	20	25	0.25		125
(GREEN)	20	15	0.25		75
ARROW	16	12	0.10		19
PED. SIGNAL	8	25	1.00		200
CONTROLLER	1	100	1.00		100
FLASHER			0.50		
TOTAL =					689

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

ENERGY SUPPLY: CONTACT: MARK GLOECKLE
PHONE: (630) 691-4529
COMPANY: COM ED



CABLE PLAN NOT TO SCALE

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-IDD1.CM40 Contracts Phase 2\ICDD_Sheets\072-Barrington Rd at Schaumburg Rd.CDD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / 1" =	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION #22 BARRINGTON RD AT SCHAUMBURG RD CABLE PLAN
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

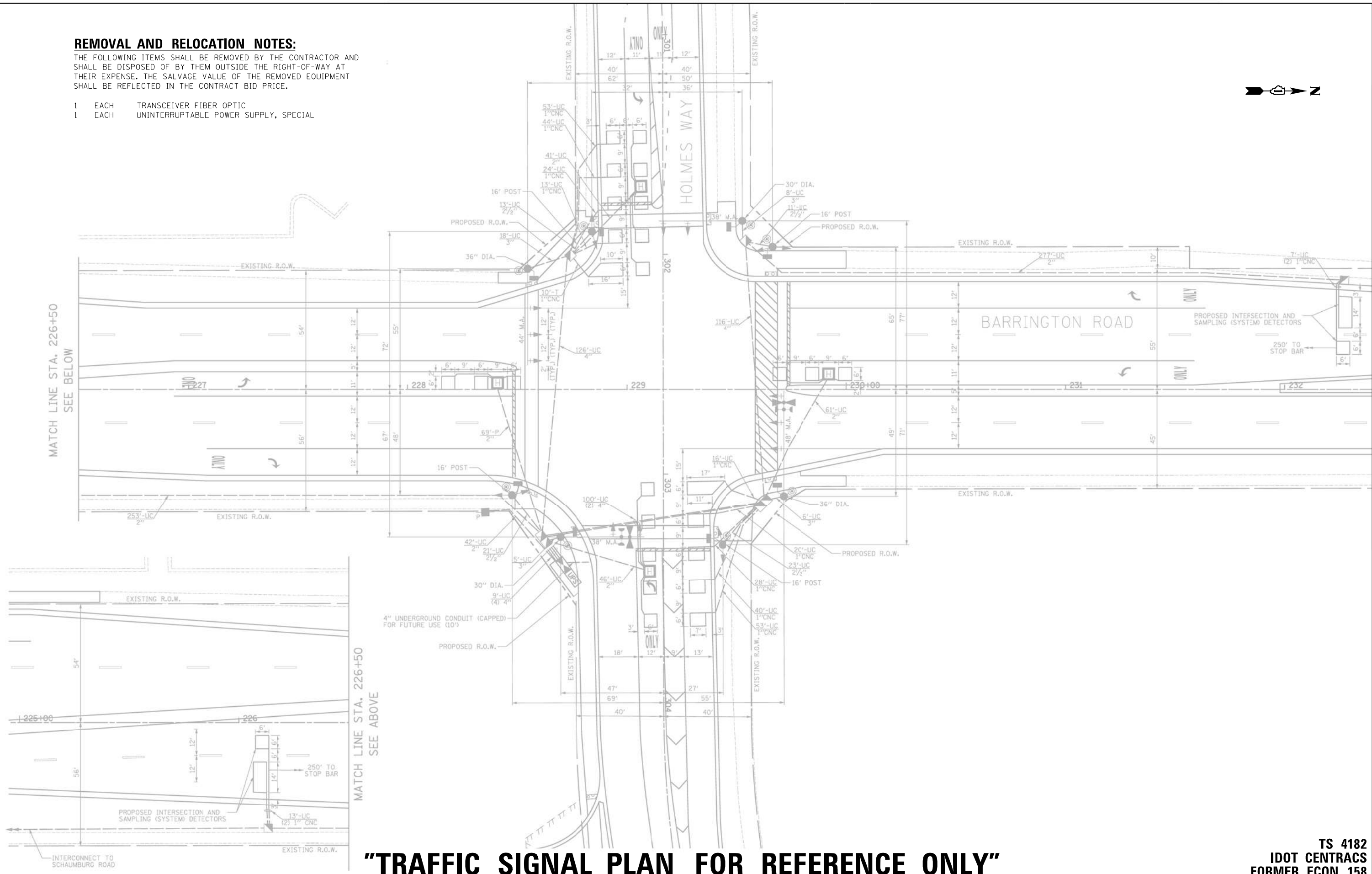
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	84
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 4180 IDOT CENTRACS FORMER ECON 158

REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 4182
IDOT CENTRACS
FORMER ECON 158**

K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM00 Contracts Phase 2\CADD\Sheets\073.Barrington Rd at Holmes Way_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

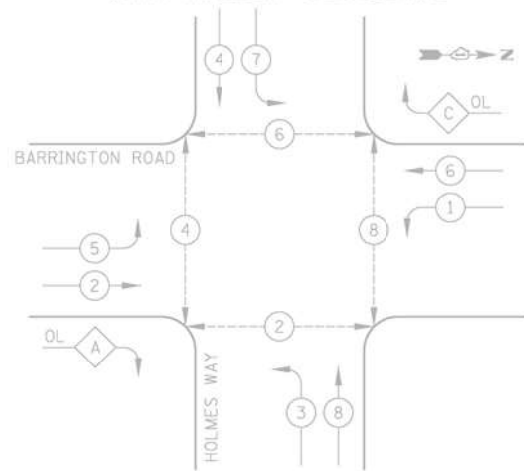
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #23
BARRINGTON RD AT HOLMES WAY INTERSECTION PLAN**

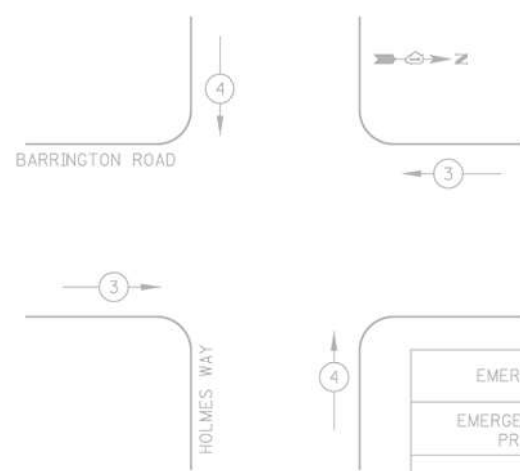
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	85
			CONTRACT NO. 62T54	
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE

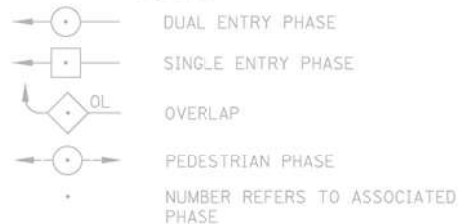


PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← → ↑ ↓

LEGEND



PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

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

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-562-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\074-Barrington Rd at Holmes Way.dgn

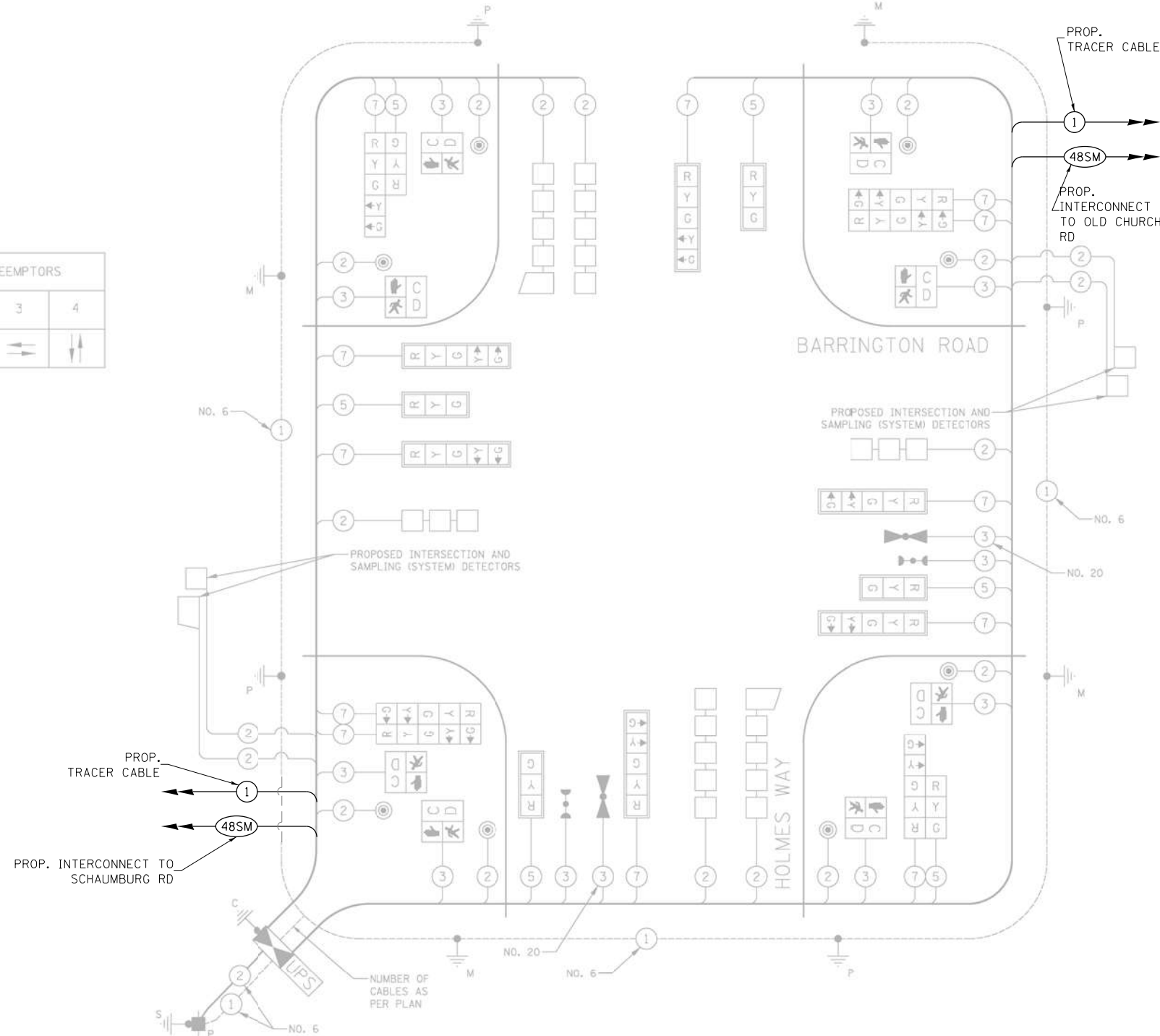
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18		17	0.50	153
(YELLOW)	18		25	0.25	113
(GREEN)	18		15	0.25	68
ARROW	24		12	0.10	29
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
FLASHER					0.50
TOTAL =					663

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
CONTACT: MARK GLOECKLE
PHONE: (630) 691-4529
COMPANY: COM ED

ENERGY SUPPLY:

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1



<p>GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: 773/774-5900</p>	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	PLOT SCALE = 40.0000' / 1" =	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #23
BARRINGTON RD AT HOLMES WAY CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	86
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 4182
IDOT CENTRACS
FORMER ECON 158

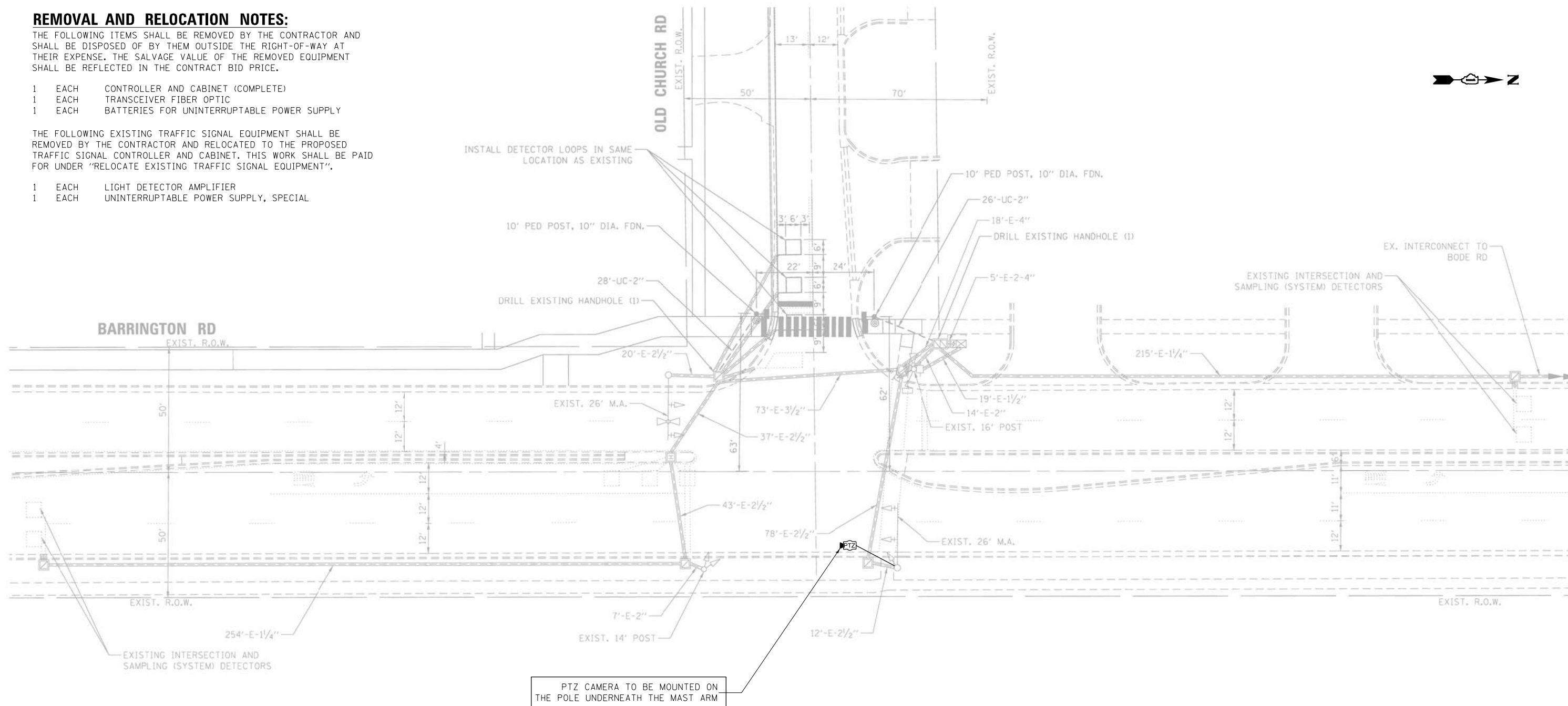
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT".

- 1 EACH LIGHT DETECTOR AMPLIFIER
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL



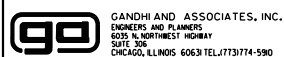
NOTES:

THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 21130
IDOT CENTRACS
FORMER ECON 150**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1DOT.CM40 Contracts Phase 2\CADD\Sheets\075.Barrington Rd at Old Church Rd.INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #24
BARRINGTON RD AT OLD CHURCH RD INTERSECTION PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	87
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

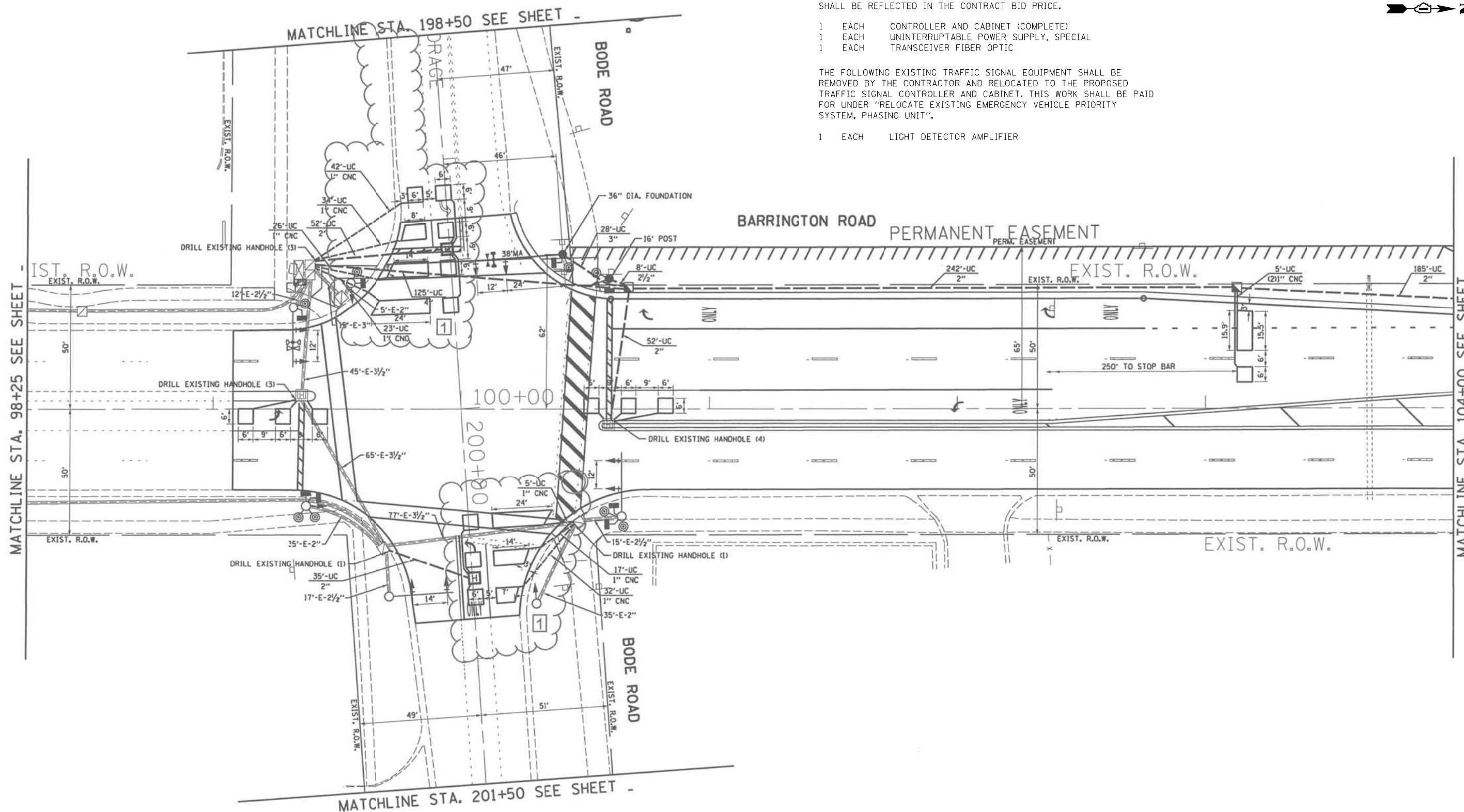
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
- 1 EACH TRANSCEIVER FIBER OPTIC

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER AND CABINET. THIS WORK SHALL BE PAID FOR UNDER "RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT".

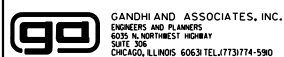
- 1 EACH LIGHT DETECTOR AMPLIFIER



"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 4170
IDOT CENTRACS
FORMER ECON 150**

K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\077-Barrington Rd at Bode Rd.INT.dgn



USER NAME = \$USER*	DESIGNED - EA	REVISED -
DRAWN - EA, AV	CHECKED - MS	REVISED -
PLOT SCALE = 40.0000' / in.	DATE - 10/31/2022	REVISED -
PLOT DATE = \$DATE*		

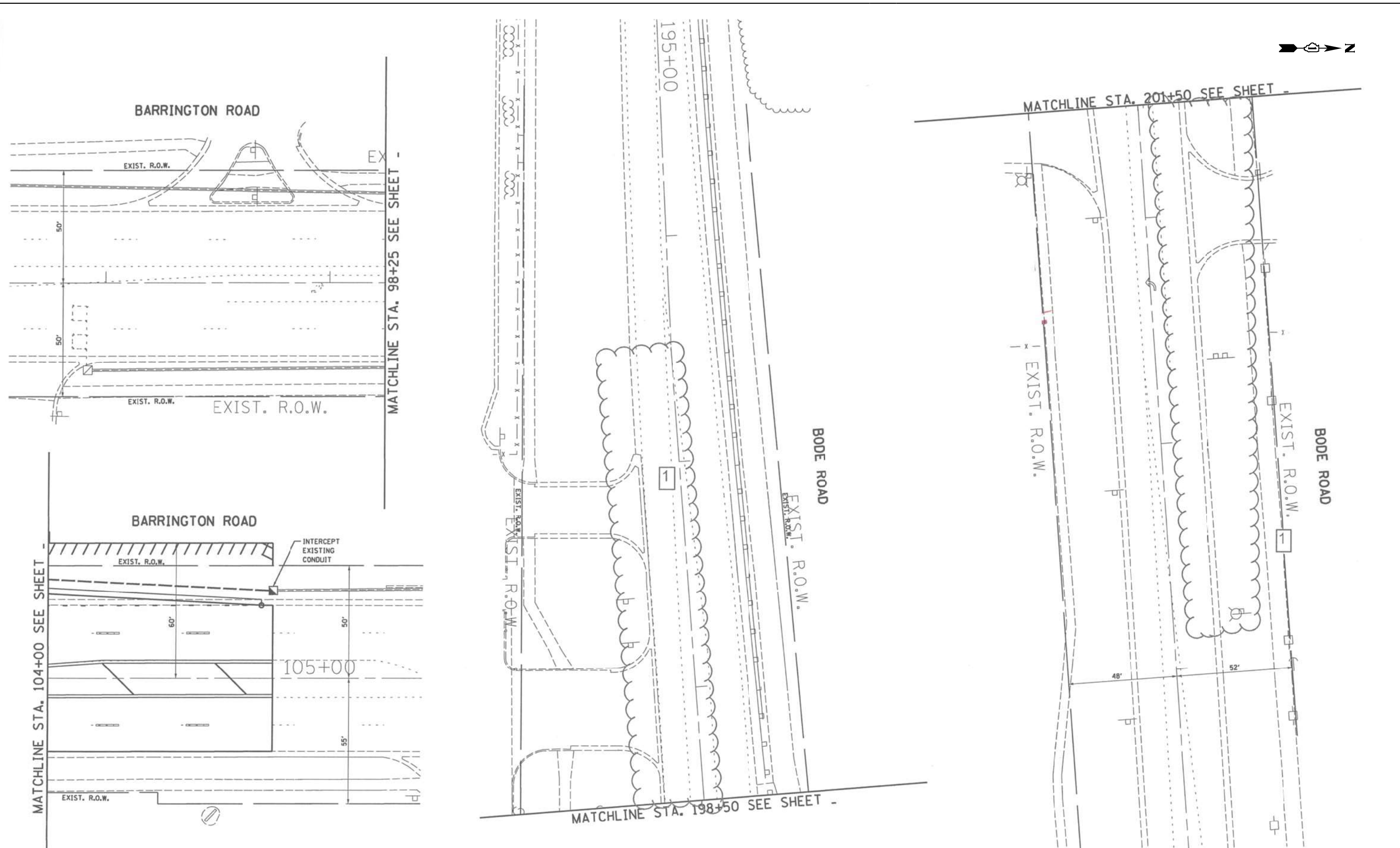
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #25
BARRINGTON RD AT BODE RD INTERSECTION PLAN SHEET 1**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	89
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

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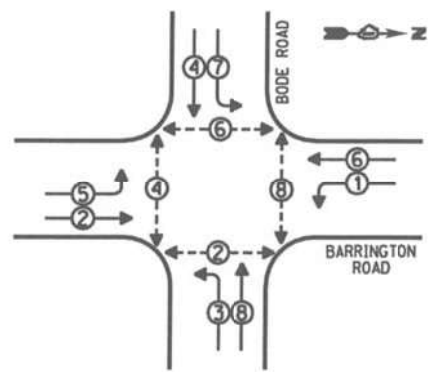


"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

TS 4170
IDOT CENTRACS
FORMER ECON 150

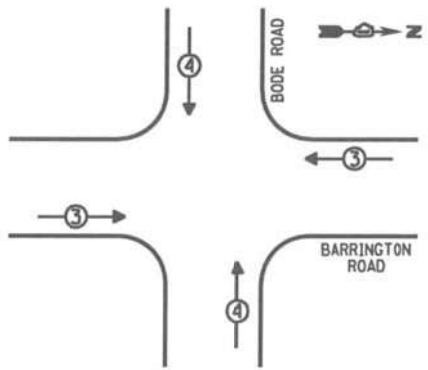
	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 5035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: 773/774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #25 BARRINGTON RD AT BODE RD INTERSECTION PLAN SHEET 2			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
							SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
		PLOT SCALE = 40.0000' / 1".	CHECKED - MS	REVISED -					CONTRACT NO. 62T54					
		PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -					FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT					

PROPOSED CONTROLLER SEQUENCE

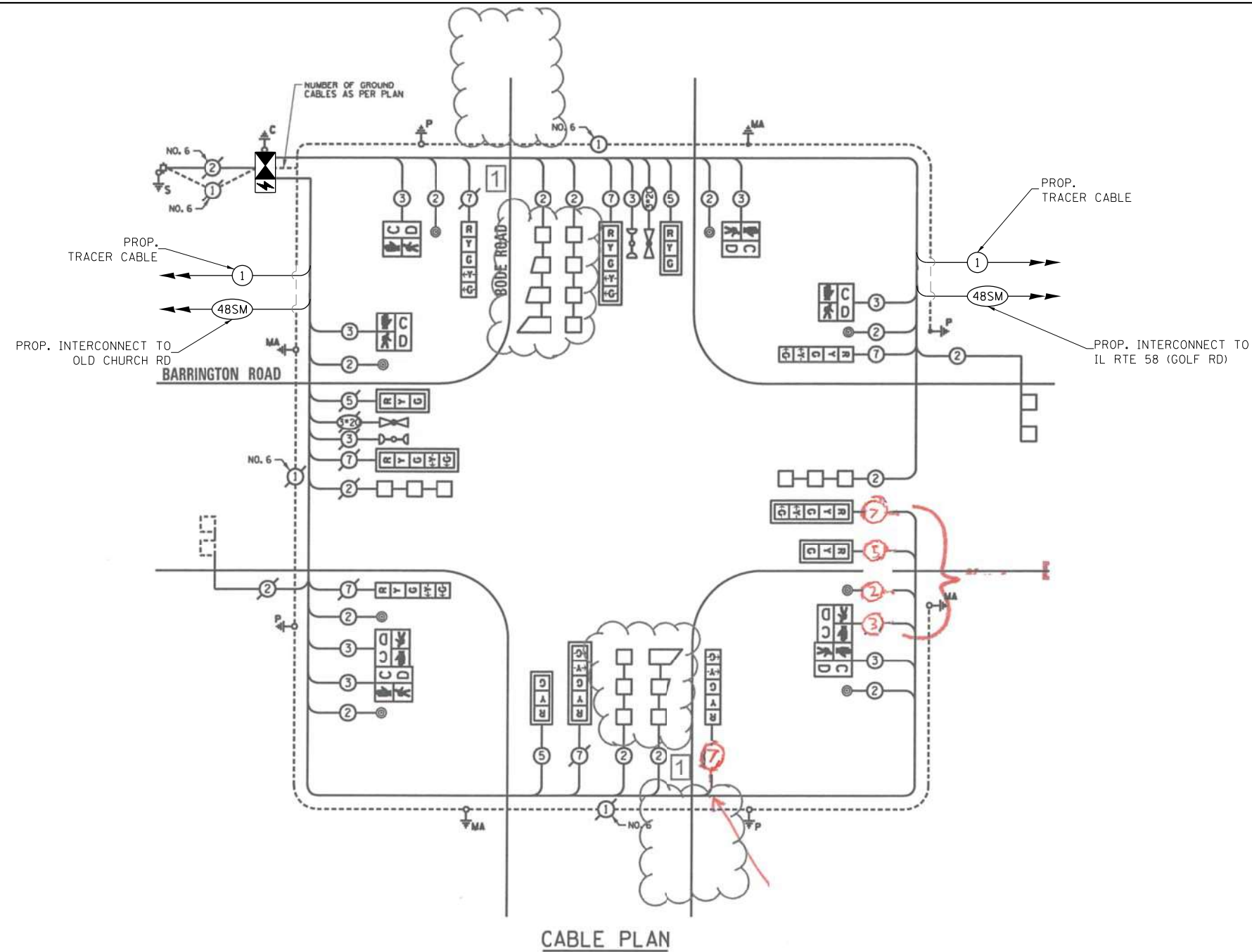


PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↕



CABLE PLAN

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	8
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED % OPERATIONS	WATTAGE	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN			25	0.05	
LUMINAIRE		250		0.50	
VIDEO SYSTEM		150		1.00	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	541.20

VILLAGE OF HOFFMAN ESTATES
1900 HASSEL ROAD
HOFFMAN ESTATES, ILLINOIS 60169

ENERGY SUPPLY - CONTACT: JOE STACHO
PHONE: 16301 424-5704
COMPANY: ComEd

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Contracts\Phase 2\CADD\Sheets\079-Barrington Rd at Bode Rd.CADD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.
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LOCATION #25
BARRINGTON RD AT BODE RD CABLE PLAN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	91
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 4170
IDOT CENTRACS
FORMER ECON 150

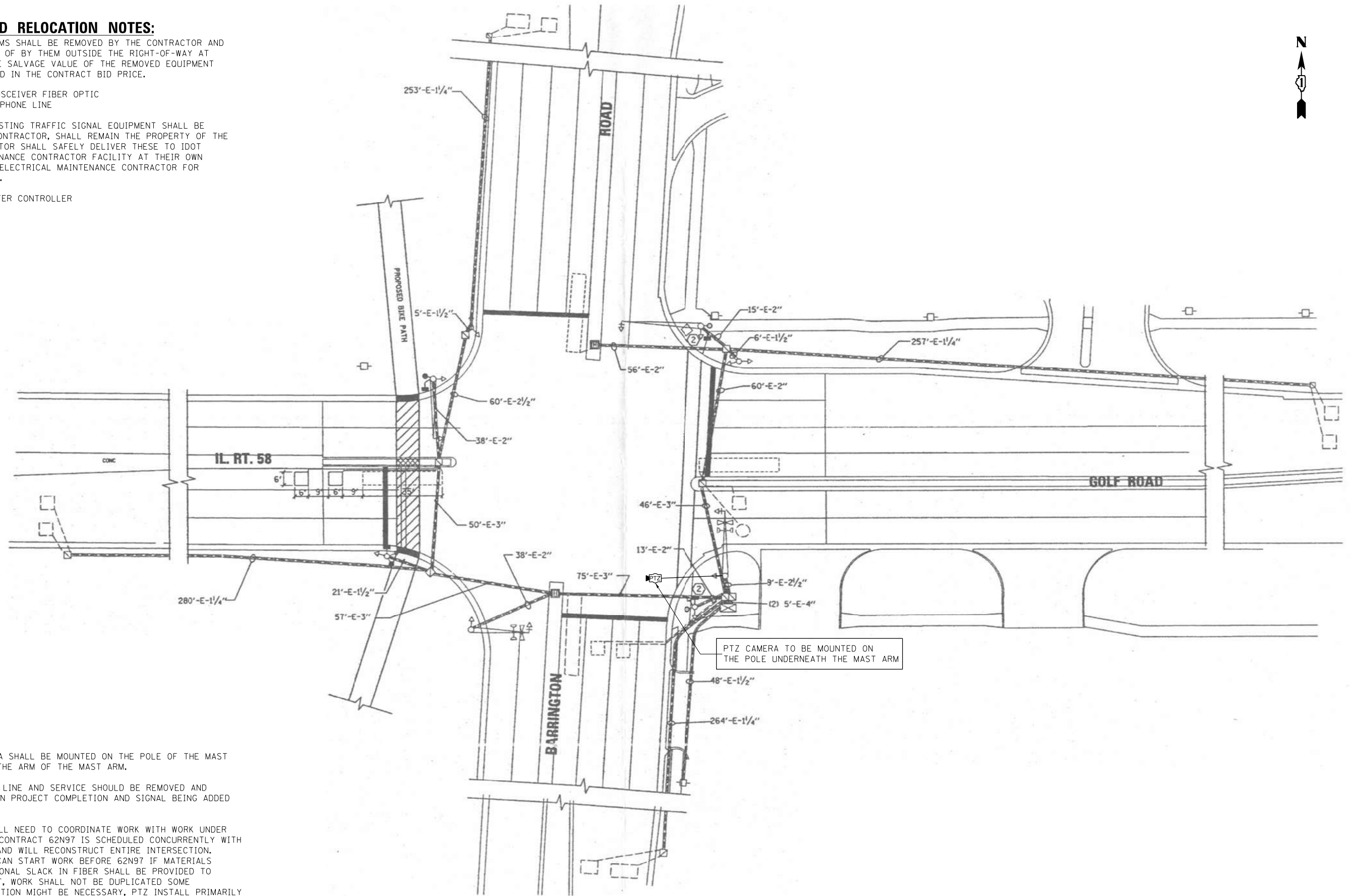
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH TRANSCEIVER FIBER OPTIC
- 1 EACH TELEPHONE LINE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE IDOT. THE CONTRACTOR SHALL SAFELY DELIVER THESE TO IDOT ELECTRICAL MAINTENANCE CONTRACTOR FACILITY AT THEIR OWN EXPENSE. CONTACT ELECTRICAL MAINTENANCE CONTRACTOR FOR LOCATION AND TIME.

- 1 EACH MASTER CONTROLLER



NOTES:

1. THE PTZ CAMERA SHALL BE MOUNTED ON THE POLE OF THE MAST ARM UNDERNEATH THE ARM OF THE MAST ARM.
2. THE TELEPHONE LINE AND SERVICE SHOULD BE REMOVED AND DISCONNECTED UPON PROJECT COMPLETION AND SIGNAL BEING ADDED TO CENTRACS.
3. CONTRACTOR WILL NEED TO COORDINATE WORK WITH WORK UNDER CONTRACT 62N97. CONTRACT 62N97 IS SCHEDULED CONCURRENTLY WITH CONTRACT 62T54 AND WILL RECONSTRUCT ENTIRE INTERSECTION. CONTRACT 62T54 CAN START WORK BEFORE 62N97 IF MATERIALS AVAILABLE. ADDITIONAL SLACK IN FIBER SHALL BE PROVIDED TO ACCOUNT FOR THAT, WORK SHALL NOT BE DUPLICATED SOME EQUIPMENT RELOCATION MIGHT BE NECESSARY, PTZ INSTALL PRIMARILY AS SHOWN ON PLANS UNLESS COMBINATION MAST ARM IS IN PLACE UNDER 62N97. CONTRACTOR TO PLAN WORK ACCORDINGLY. COORDINATION WILL BE REQUIRED AMONG THE DESIGNERS, RE, AND CONTRACTORS.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

**TS 2725
IDOT CENTRACS
FORMER ECON 150**

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-602-1001.CM40 Contracts Phase 2\CADD\Sheets\080-Barrington Rd at IL Rte 58_INT.dgn

 GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 200 CHICAGO, ILLINOIS 60630 TEL: (773) 774-5900	USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION #26 BARRINGTON RD AT IL RTE 58 (GOLF RD) INTERSECTION PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -		REVISED -	SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	VAR	2023 TRAFFIC 02	VARIOUS
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -	REVISED -								CONTRACT NO. 62T54		
										FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			

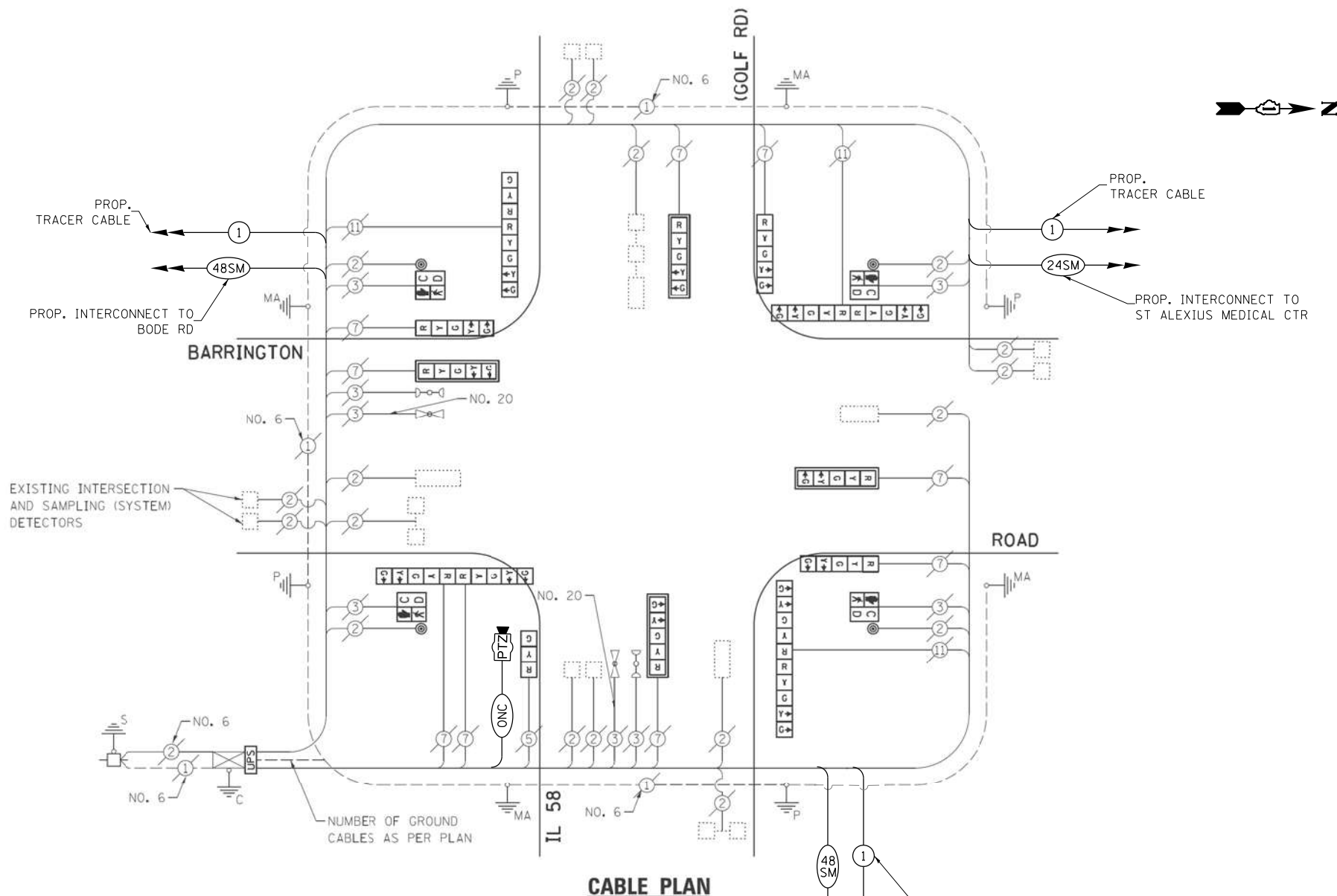
FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-101.CM00.Contracts\Phase 2\CADD\Sheets\081.Barrington Rd at IL Rte 58.Caddgn

SCHEDULE OF QUANTITIES

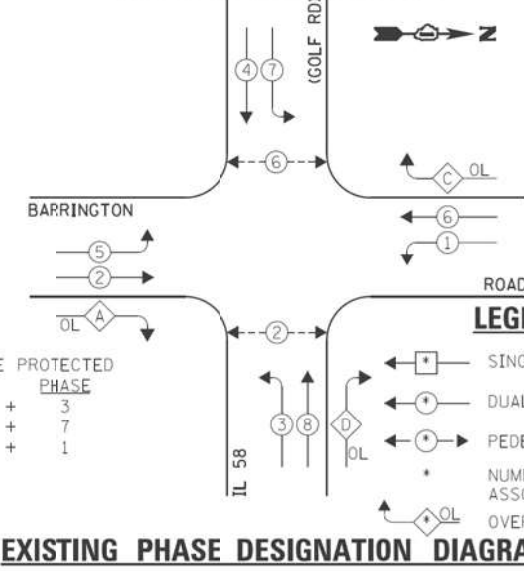
ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	78
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL LAYER III (NETWORK) SWITCH	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	28	135	12	0.10	33.6
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					554.6

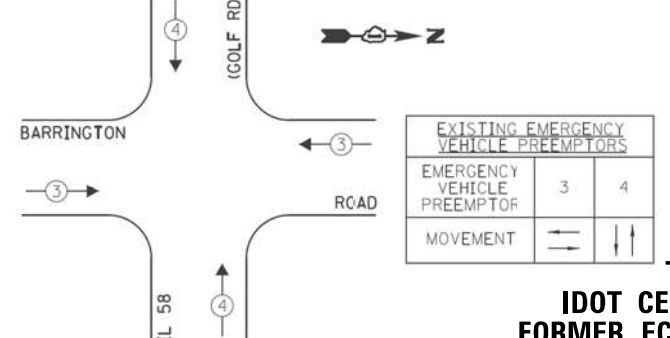
ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE



EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← →

EXISTING PHASE DESIGNATION DIAGRAM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #26
BARRINGTON RD AT IL RTE 58 (GOLF RD) CABLE PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	93
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

TS 2725
IDOT CENTRACS
FORMER ECON 150

GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6055 N. NORTHWEST HIGHWAY
 SUITE 200
 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISED -
CHECKED - MS	REVISED -
DATE - 10/31/2022	REVISED -

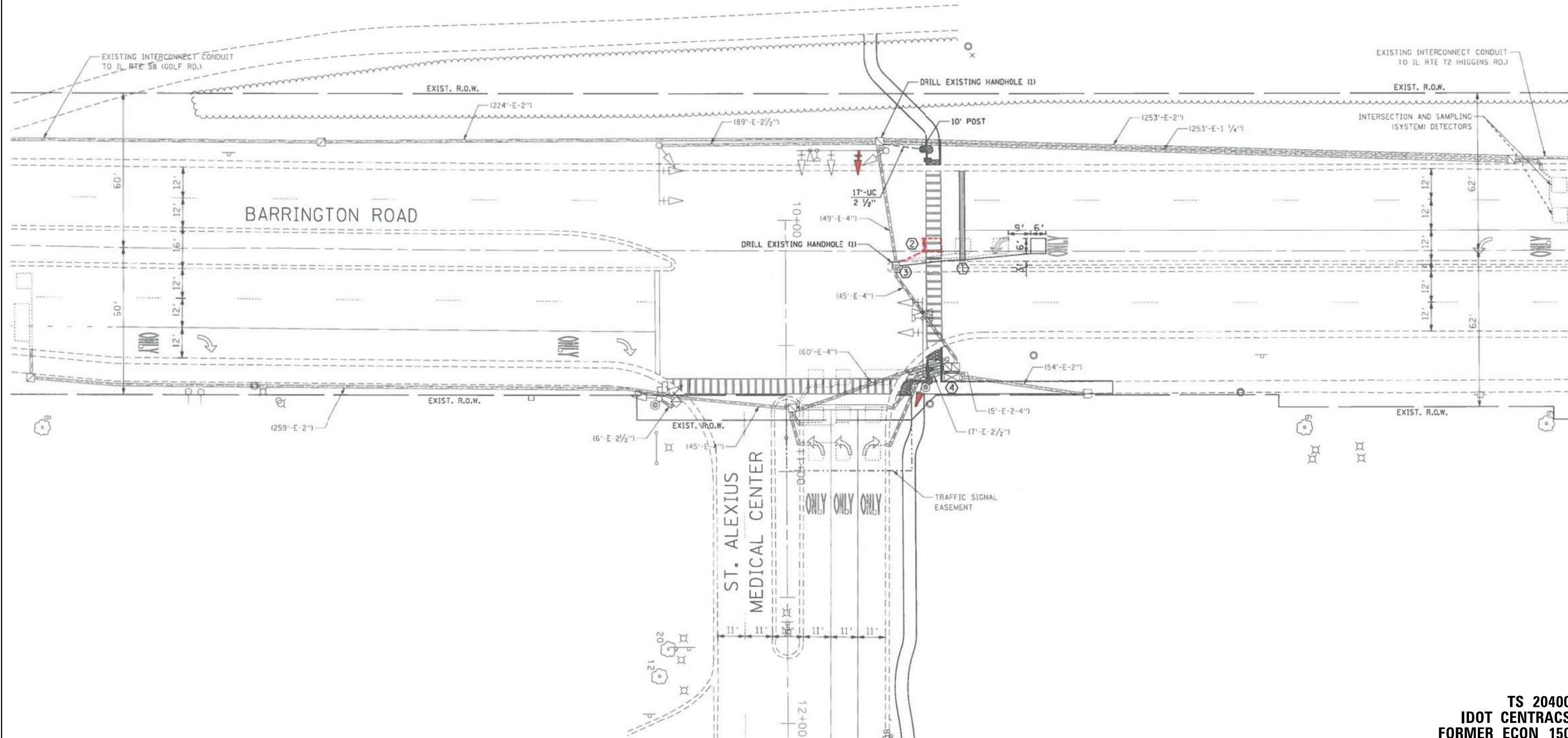
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PLOT SCALE = 40.0000' / in.
PLOT DATE = \$DATE\$

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"

REMOVAL AND RELOCATION NOTES:

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

1 EACH TRANSCEIVER FIBER OPTIC



FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\082.Barrington Rd at St. Alexius Medical Center_INT.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
DRAWN - EA, AV	REVISIONS -	
CHECKED - MS	REVISIONS -	
DATE - 10/31/2022	REVISIONS -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

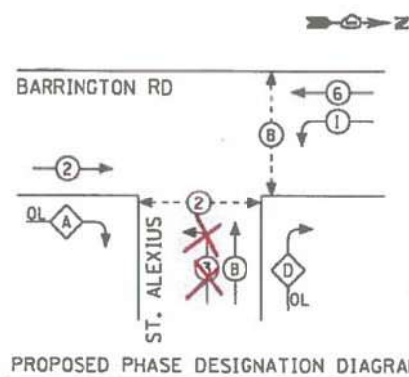
**LOCATION #27
BARRINGTON RD AT ST ALEXIUS MEDICAL CENTER INTERSECTION PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	94
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 20400
IDOT CENTRACS
FORMER ECON 150**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

PROPOSED CONTROLLER SEQUENCE



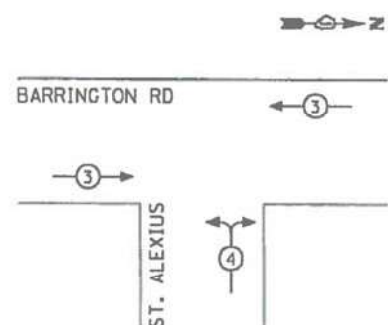
LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED PHASE DESIGNATION DIAGRAM

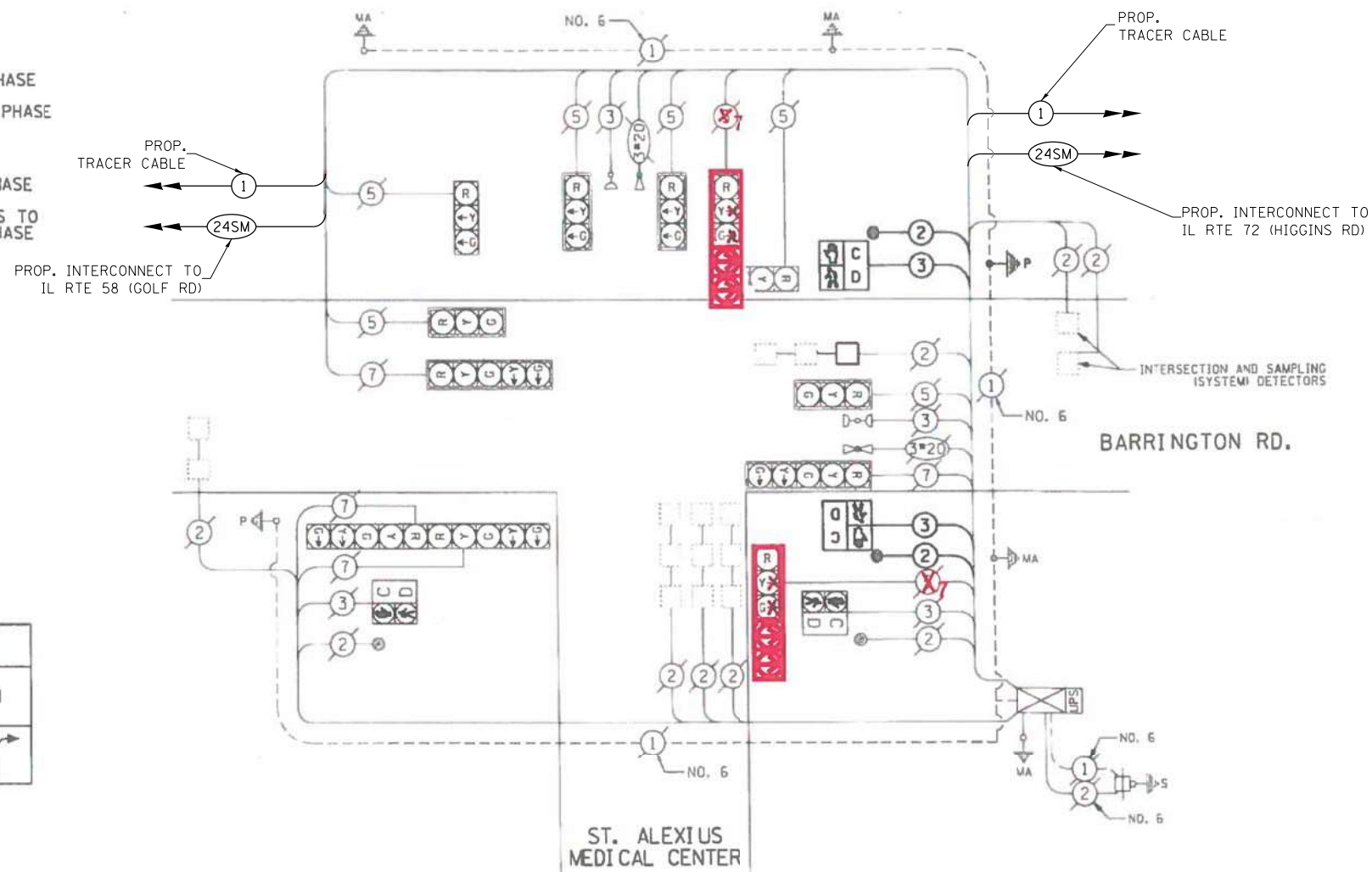
OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2	+ 3
D =	4	+ 1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	→

CABLE PLAN



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE INCANDE.	LED	% OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	8		12	0.10	9.60
PED. SIGNAL	4		25	1.00	100.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-				
U.P.S.	1		25	1.00	25.00
ENERGY COSTS TO:					TOTAL = 456.60

VILLAGE OF HOFFMAN ESTATES
 1900 HASSELL ROAD
 HOFFMAN ESTATES, ILLINOIS 60195
 ENERGY SUPPLY: CONTACT: LEN STADLER
 PHONE: (847) 691-4376
 COMPANY: COMED

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000' / 1" =	CHECKED - MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

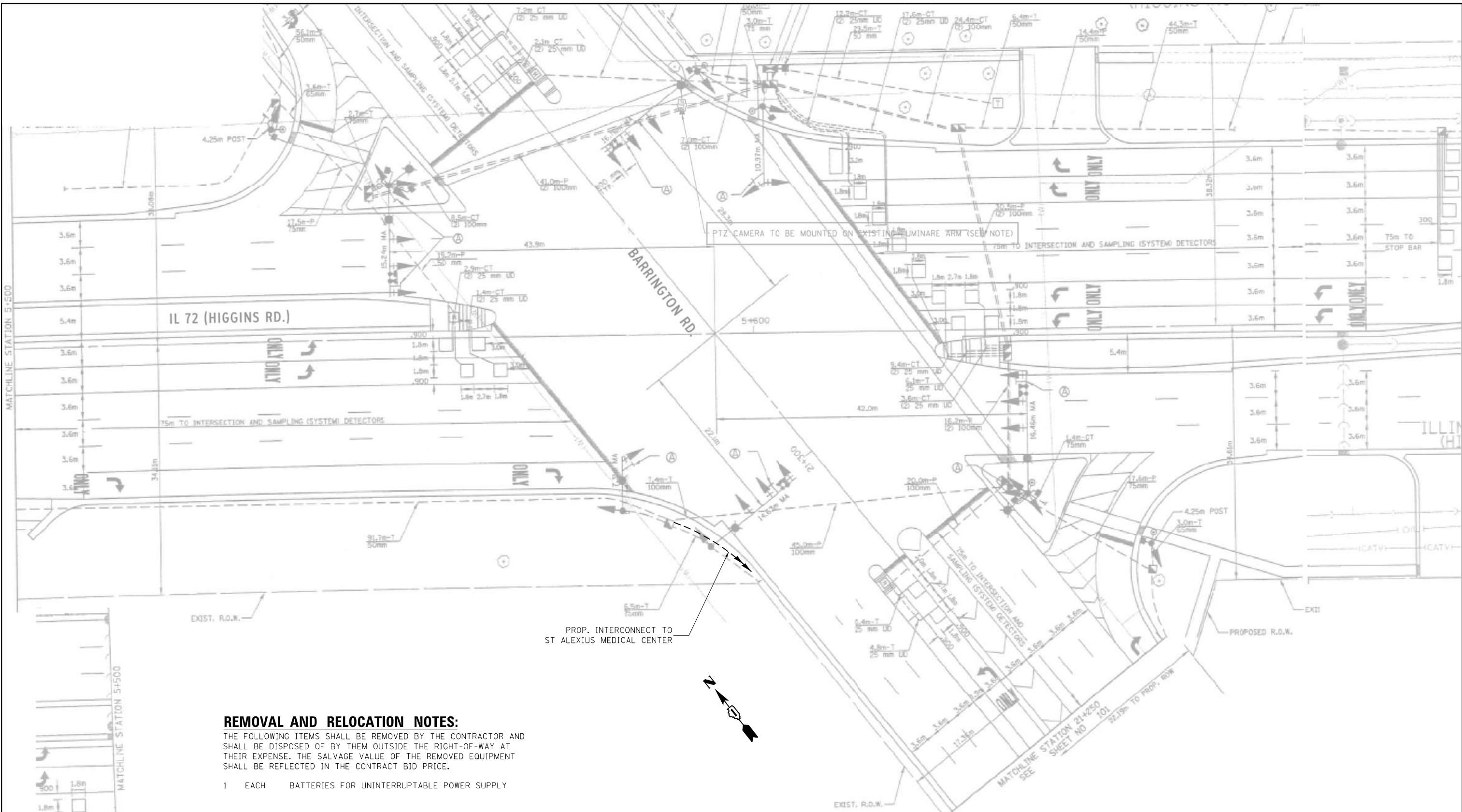
LOCATION #27
 BARRINGTON RD AT ST ALEXIUS MEDICAL CENTER CABLE PLAN
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	95
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

TS 20400
 IDOT CENTRACS
 FORMER ECON 150

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM40-Centrac-Phase 2\CADD_Sheets\083-Barrington_Rd_at_St_Alexius_Medical_Center-CD.dgn

FILE NAME = K:\PROJECTS\Projects 2022\22-ESR-502-1001.CM40 Contracts Phase 2\CADD\Sheets\084-Barrington Rd at IL Rte 72-INT.dgn



REMOVAL AND RELOCATION NOTES:

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

- 1 EACH BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY

NOTES:

1. CONTRACTOR SHOULD COORDINATE WORK WITH WORK UNDER CONTRACT 62R81. CONTRACT 62R81 CONSISTS OF SYSTEM EXPANSION 1 AND SHOULD BE COMPLETED FIRST PRIOR TO CONTRACT 62T54 ONLY THEN CAN THE WORK ON THIS CONTRACT BE INITIATED. CONTRACTOR TO PLAN WORK ACCORDINGLY.

"TRAFFIC SIGNAL PLAN FOR REFERENCE ONLY"



USER NAME = \$USER\$	DESIGNED - EA	REVISED - 12-2-2022
PLOT SCALE = 40.0000' / 1"	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION #28
BARRINGTON RD AT IL RTE 72 (HIGGINS RD) INTERSECTION PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

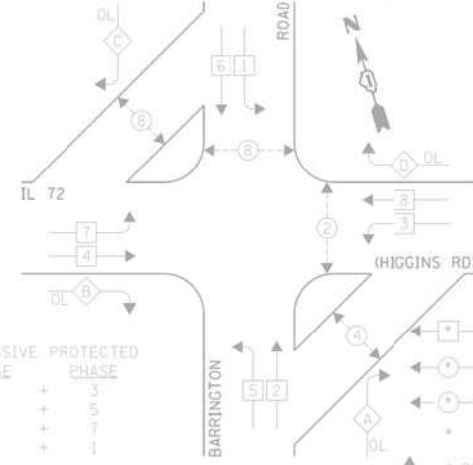
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	96
FED. ROAD DIST. NO. - ILLINOIS			FED. AID PROJECT	

TS 3290
IDOT CENTRACS
FORMER ECON 73

CONTRACT NO. 62T54

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EXISTING CONTROLLER SEQUENCE

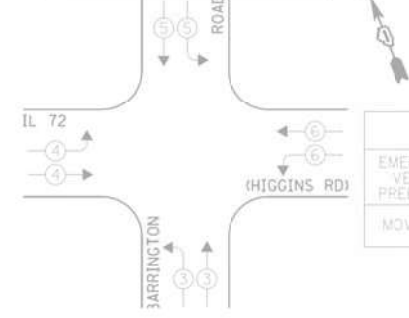


OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3
B	4	5
C	6	7
D	8	1

- LEGEND:**
- SINGLE ENTRY PHASE
 - DUAL ENTRY PHASE
 - ◀ PEDESTRIAN PHASE
 - NUMBER REFERS TO ASSOCIATED PHASE
 - DL OVERLAP

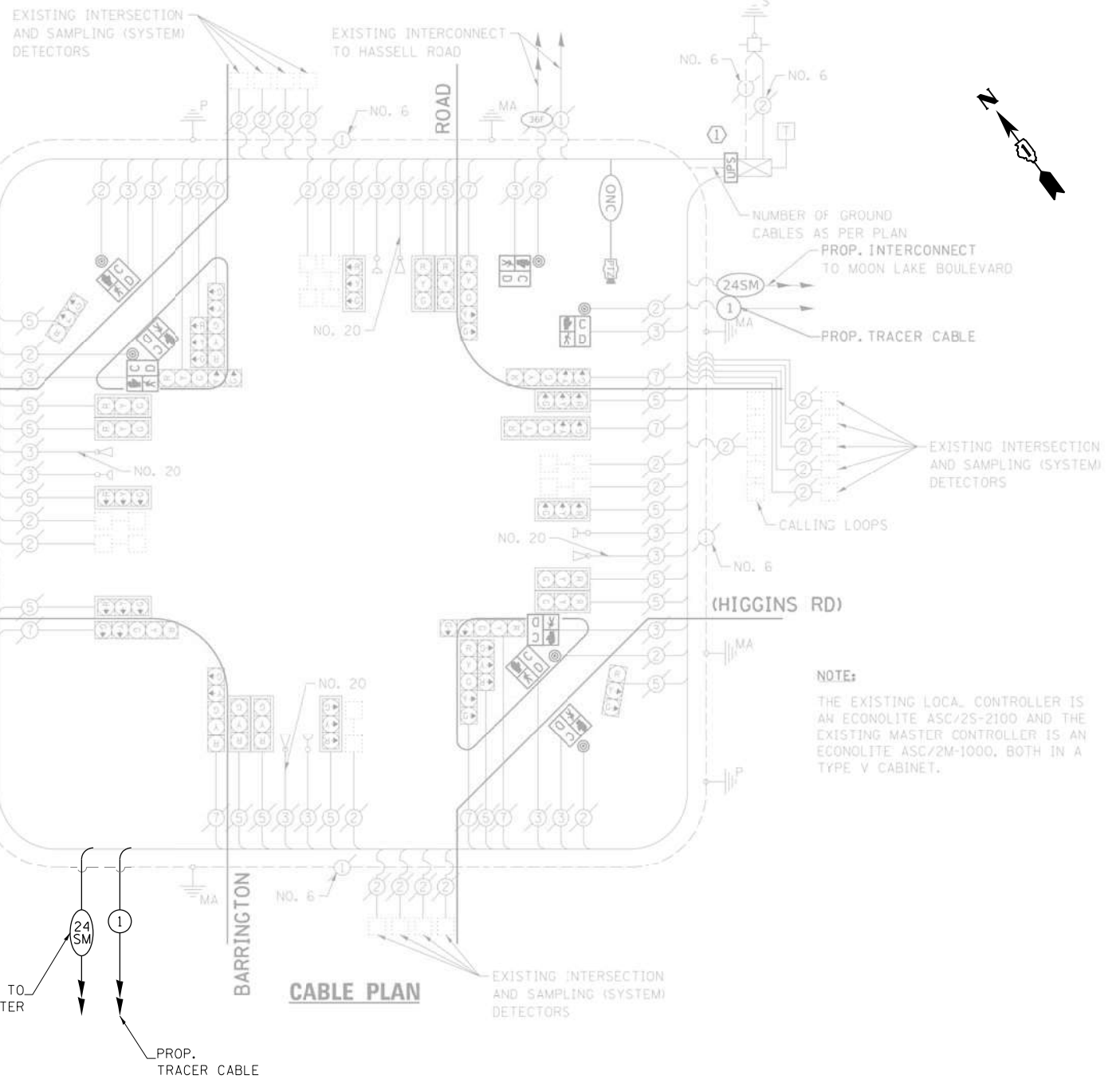
EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	MOVEMENT
3	↑
4	→
5	↓
6	←

CONSTRUCTION NOTE:
 ① INSTALL UNINTERRUPTABLE POWER SUPPLY (UPS) ON LEFT SIDE OF THE EXISTING CONTROLLER CABINET.



NOTE:
 THE EXISTING LOCAL CONTROLLER IS AN ECONOLITE ASC/25-2100 AND THE EXISTING MASTER CONTROLLER IS AN ECONOLITE ASC/2M-1000, BOTH IN A TYPE V CABINET.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
REMOVE AND REPLACE BATTERIES FOR UNINTERRUPTABLE POWER SUPPLY	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE		OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	27	135	17	0.50	229.5
SIGNAL (YELLOW)	27	135	25	0.25	168.75
SIGNAL (GREEN)	27	135	15	0.25	101.25
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					846.1

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

	USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
	PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
		DATE - 10/31/2022	REVISED -

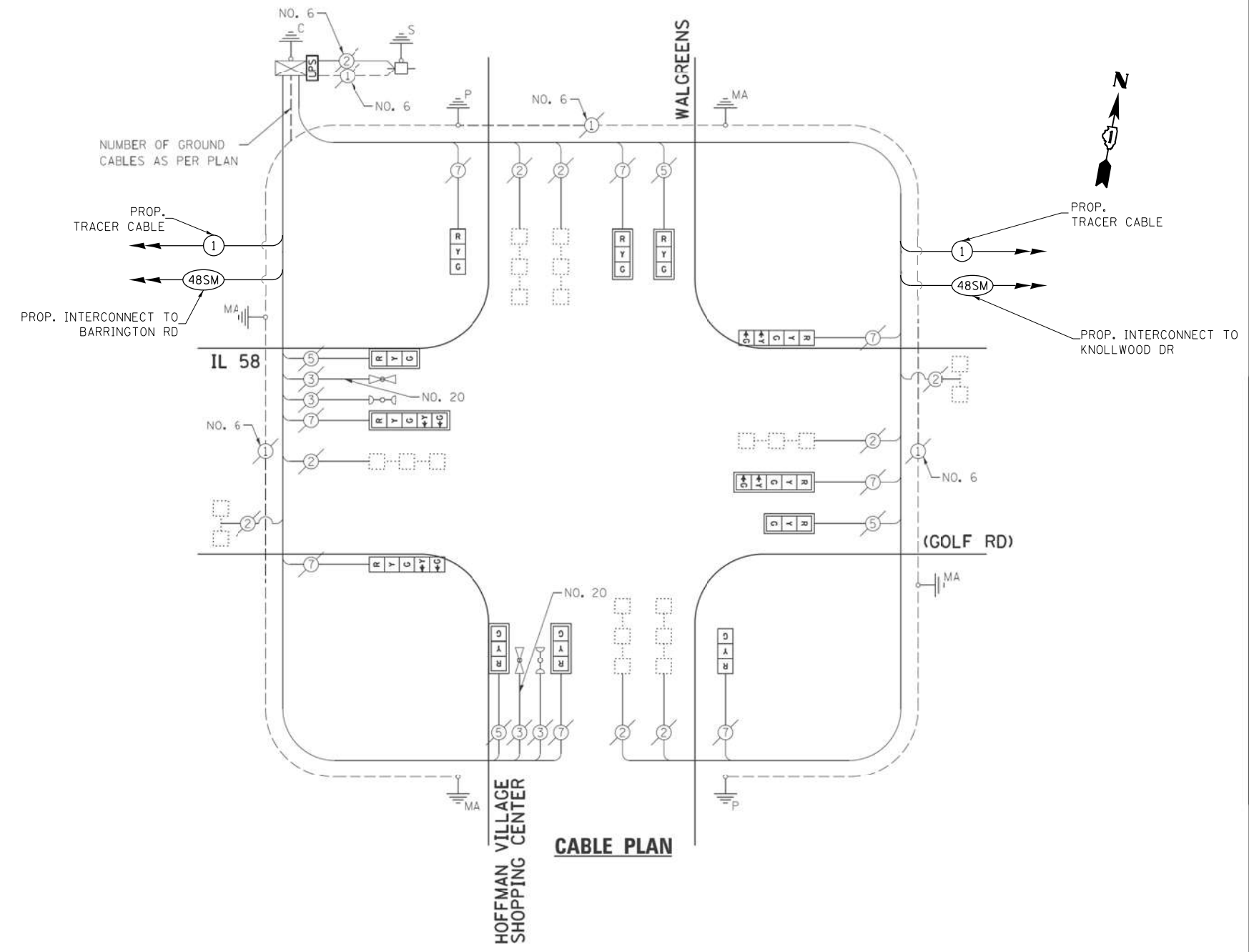
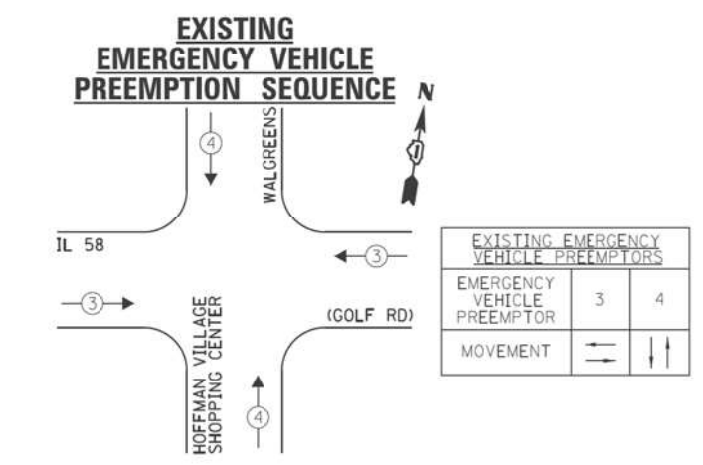
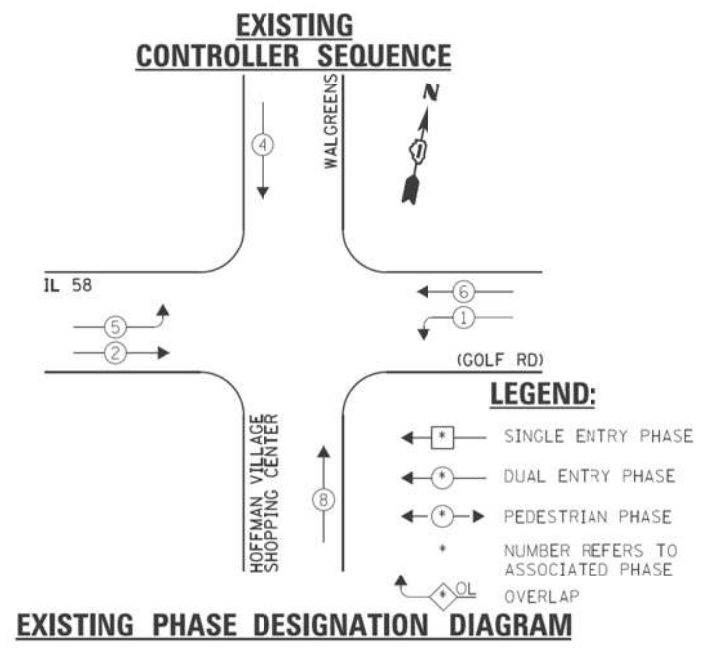
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION #28
 BARRINGTON RD AT IL RTE 72 (HIGGINS RD) CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	97
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

**TS 3290
 IDOT CENTRACS
 FORMER ECON 73**



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					356.6

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
CENTRACS LICENSE EXPANSION	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1

FILE NAME = K:\PROJECTS\Projects\2022\22-ESR-502-IDOT-CM00-Sheets\086-IL_Rte_58_at_Hoffman_Estates_SC_CD.dgn



USER NAME = \$USER\$	DESIGNED - EA	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - EA, AV	REVISED -
PLOT DATE = \$DATE\$	CHECKED - MS	REVISED -
	DATE - 10/31/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION #29
IL RTE 58 (GOLF RD) AT HOFFMAN ESTATES SHOPPING CENTER
CABLE PLAN**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2023 TRAFFIC 02	VARIOUS	306	99
CONTRACT NO. 62T54				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

**TS 20402
IDOT CENTRACS
FORMER ECON 150**

