

06-17-2022 LETTING ITEM 137

PROPOSED HIGHWAY PLANS LOCAL AGENCY PROJECT

CMAQ & LOCAL FUNDS
CITY OF EDWARDSVILLE, ILLINOIS (LEAD LOCAL AGENCY)
VILLAGE OF GLEN CARBON, ILLINOIS (PARTNER LOCAL AGENCY)
FAP 600 /FAU 8887 (TROY RD.)
SECTION 16-00108-00-TL
PROJECT NO. NQJU(219)
TRAFFIC SIGNAL AND INTERCONNECT IMPROVEMENTS
MADISON COUNTY
C-98-323-16

FOR INDEX OF SHEETS AND STANDARDS, SEE SHEET NO. 2

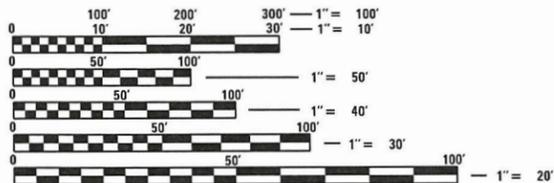
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	1
FAP 600/FAU 8887	ILLINOIS	CONTRACT NO. 97777		



DESIGN DESIGNATION

FAP ROUTE 600 (IL 159 /TROY RD.) - OTHER PRINCIPAL ARTERIAL
 2019 ADT: 27,100 8% TRUCKS

FAU ROUTE 8887 (TROY RD.) - MINOR ARTERIAL
 2016 ADT: 21,700

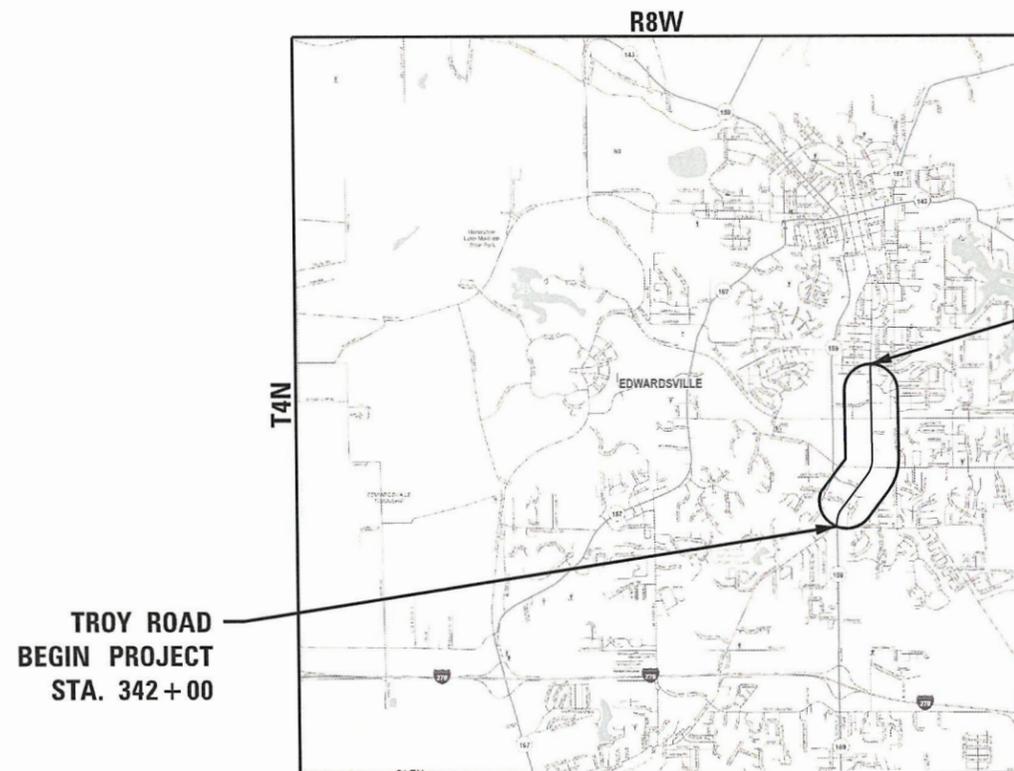


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - NATHAN M. NOHREN, PE, PTOE
 PROJECT MANAGER - TYSON W. KING, PE, PTOE, RSP2

CONTRACT NO. 97777



TROY ROAD
 BEGIN PROJECT
 STA. 342 + 00



TROY ROAD
 END PROJECT
 STA. 418 + 00

LOCATION MAP
 EDWARDSVILLE TOWNSHIP



GROSS LENGTH = 7,600 FT. = 1.44 MILE
 NET LENGTH = 7,600 FT. = 1.44 MILE



SIGNED: *Nathan M. Nohren*
 ILLINOIS PROFESSIONAL ENGINEER NO. 062-061863
 LICENSE EXPIRES: 11-30-2023

CITY OF EDWARDSVILLE		
APPROVED	<i>April 12 2022</i>	20 22
	<i>Ant Dvorak</i>	MAYOR
PASSED	<i>4/12</i>	20 22
	<i>[Signature]</i>	DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>4/12</i>	20 22
	<i>Kirk Brown</i>	REGION 5 ENGINEER

PLANS PREPARED BY:



PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

GENERAL NOTES

- TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (ILMUTCD), HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL EQUIPMENT. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE BEEN LOCATED AT THE TIME OF THE SURVEY, OR BASED ON AVAILABLE EXISTING INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EACH UTILITY PRIOR TO INSTALLING THE NEW TRAFFIC SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.30 OF THE "STANDARD SPECIFICATIONS". CALL J.U.L.I.E. AT 1-800-892-0123, AS WELL AS ANY OTHER KNOWN UTILITY COMPANIES NOT SERVED BY J.U.L.I.E., A MINIMUM OF 48 HOURS IN ADVANCE OF DIGGING OPERATIONS. THE CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITY COMPANY.
- PRIOR TO CONSTRUCTION ACTIVITIES TAKING PLACE, THE CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANIES TO VERIFY THAT NO MODIFICATIONS TO THE EXISTING POWER SOURCE LOCATIONS WILL BE REQUIRED TO ACCOMMODATE THE PROPOSED TRAFFIC SIGNAL IMPROVEMENTS.
- ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION. ALL EXISTING FACILITIES NOT EXPLICITLY IDENTIFIED AS BEING REMOVED OR RELOCATED IN THE PLANS THAT ARE DISTURBED OR OTHERWISE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION.
- DIRECTIONAL BORING OR PUSHING OF CONDUIT MAY BE USED INSTEAD OF TRENCHING CONDUIT; HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE, UNLESS RESPECTIVE CONDUIT SEGMENT IS INCLUDED IN THE PAY ITEM "UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2-INCH DIAMETER". REFER TO SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
- CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED AS PART OF WORK ASSOCIATED WITH INSTALLING RESPECTIVE CONDUIT PAY ITEMS.
- ALL UNUSED AND/OR UNNECESSARY TRAFFIC SIGNAL CABLES SHALL BE COMPLETELY REMOVED FROM THE EXISTING CONDUIT SYSTEM, IF POSSIBLE, TO ENSURE ADEQUATE CONDUIT CAPACITY. ALL UNUSED CONDUITS SHALL BE REMOVED OR ABANDONED.
- PRIOR TO INSTALLING NEW TRAFFIC SIGNAL CABLES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF NEW TRAFFIC SIGNAL CABLES CAN BE PULLED THROUGHOUT EXISTING CONDUIT SEGMENTS WITHOUT AFFECTING THE OPERATION OF THE TRAFFIC SIGNAL. IF EXISTING CONDUIT CAPACITIES WILL PREVENT THE INSTALLATION OF THE NEW TRAFFIC SIGNAL CABLES WITHOUT AFFECTING THE OPERATION OF THE TRAFFIC SIGNAL, THE TRAFFIC SIGNAL WILL HAVE TO BE TEMPORARILY SHUT DOWN WHILE UNNECESSARY EXISTING SIGNAL CABLES ARE REMOVED AND NEW SIGNAL CABLES ARE INSTALLED. IT IS LIKELY THAT IDOT, CITY OF EDWARDSVILLE, AND VILLAGE OF GLEN CARBON WILL REQUIRE THAT ALL WORK CAUSING A TEMPORARY SHUT DOWN OF THE TRAFFIC SIGNAL BE COMPLETED DURING EVENING HOURS (7 P.M. TO 5 A.M.).
- ALL NEW TRAFFIC SIGNAL POSTS, POLES, AND PUSH BUTTON EXTENSION BRACKETS SHALL BE GALVANIZED STEEL AND POWDER COATED BLACK TO MATCH OTHER EXISTING SIGNAL EQUIPMENT AT EACH PROJECT INTERSECTION. THE CONTRACTOR SHALL PROVIDE PAINT SPECIFICATIONS AND SAMPLES FOR APPROVAL TO THE CITY OF EDWARDSVILLE AND VILLAGE OF GLEN CARBON PRIOR TO ORDERING EQUIPMENT. REFER TO SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL VERIFY ALL NEW SIGNAL HEAD LOCATIONS PRIOR TO INSTALLATION. A MINIMUM SPACING OF 8 FT. SHALL BE MAINTAINED BETWEEN ALL EXISTING AND PROPOSED MAST ARM MOUNTED SIGNAL HEADS. ANY UNUSED OPENINGS REMAINING IN THE SIGNAL MAST ARMS OR POLES SHALL BE FILLED OR COVERED, TO THE SATISFACTION OF THE ENGINEER.
- ALL IMPROVED PEDESTRIAN RELATED FACILITIES MUST COMPLY WITH CURRENT PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). REFER TO CURB RAMP DETAIL SHEETS AND IDOT STANDARDS FOR INFORMATION PERTAINING TO THE CONSTRUCTION OF THE PROPOSED CURB RAMPS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF PEDESTRIAN SIGNAL EQUIPMENT WITH SIDEWALK AND CURB RAMP CONSTRUCTION TO ENSURE FINAL LOCATIONS ARE COMPLIANT WITH ADA STANDARDS.
- ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) REQUIREMENTS.
- ANY EQUIPMENT REMOVED FROM THE PROJECT LOCATIONS AND NOT UTILIZED IN THE FINAL INSTALLATION SHALL REMAIN THE PROPERTY OF THE RESPECTIVE GOVERNING AGENCY (IDOT, CITY OF EDWARDSVILLE, OR VILLAGE OF GLEN CARBON). THE CONTRACTOR SHALL CONTACT THE RESPECTIVE GOVERNING AGENCY TO DETERMINE WHERE SAID SALVAGED EQUIPMENT IS TO BE TRANSPORTED TO. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION .
- ALL FIBER OPTIC SPLICES AND TERMINATIONS SHALL OCCUR WITHIN NEW OR EXISTING TRAFFIC SIGNAL CABINETS. NO UNDERGROUND SPLICE ENCLOSURES ARE ALLOWED UNLESS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR PROGRAMMING OF NEW SIGNAL CONTROLLERS WITH UPDATED COORDINATED TIMING PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMING OR SETUP OF ALL SIGNAL CABINET EQUIPMENT.

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001006	DECIMAL OF AN INCH AND OF A FOOT
424001-11	PERPENDICULAR CURB RAMPS
424021-06	DEPRESSED CORNER
424031-02	MEDIAN PEDESTRIAN CROSSINGS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
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
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
838001-01	BREAKAWAY DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

UTILITIES

THE FOLLOWING UTILITY COMPANIES ARE KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

- AT&T DISTRIBUTION
- AMEREN IP
- CHARTER COMMUNICATIONS
- MCI, INC.
- EXTENET SYSTEMS
- CITY OF EDWARDSVILLE
- VILLAGE OF GLEN CARBON

COMMITMENTS

- PRIOR TO THE COMMENCEMENT OF THIS PROJECT, THE CITY OF EDWARDSVILLE SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO RECONSTRUCT THE EXISTING CURB RAMPS AND ADJOINING SIDEWALK PANELS WITHIN THE NORTHWEST AND SOUTHWEST QUADRANTS AT THE INTERSECTION OF TROY ROAD AND HARVARD DRIVE, TO ENSURE COMPLIANCE WITH CURRENT PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), AS WELL AS TO ENSURE COMPATIBILITY WITH THE PROPOSED SIGNAL IMPROVEMENTS AT THESE LOCATIONS. THIS WORK SHALL BE CONSIDERED AND SHOWN AS AN EXISTING CONDITION WITHIN THESE 16-00108-00-TL PROJECT PLANS.
- THE CONTRACTOR IS ADVISED THAT THERE IS AN 8" HIGH PRESSURE GAS MAIN LOCATED ALONG THE WEST SIDE OF TROY ROAD, BETWEEN COTTONWOOD ROAD AND MONTCLAIRE AVENUE. BASED UPON DIRECTIVES RECEIVED FROM AMEREN IP DURING THE PRELIMINARY DESIGN PROCESS, THE CONTRACTOR IS ADVISED THAT THE ILLINOIS COMMERCE COMMISSION (ICC) HAS MANDATED THAT AMEREN IP SHALL PERFORM A GAS SAFETY WATCH AND PROTECT STANDBY WHENEVER ANY EXCAVATION NEAR THE AFOREMENTIONED GAS MAIN TAKES PLACE. THE CONTRACTOR SHALL CONTACT THE FOLLOWING AMEREN IP REPRESENTATIVE AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION TAKING PLACE NEAR THE AFOREMENTIONED GAS MAIN PIPELINE:

MR. GUY SPICKARD
DAMAGE PREVENTION SPECIALIST
AMEREN ILLINOIS
1050 WEST BLVD.
BELLEVILLE, IL 62221
618-202-0435
GSPICKARD@AMEREN.COM

TRAFFIC SIGNAL LEGEND

	EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
	PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET
	EXISTING UNDERGROUND CONDUIT
	PROPOSED UNDERGROUND CONDUIT: "T" TRENCHED OR "P" PUSHED; SIZE, TYPE & LENGTH SPECIFIED
PVCC	POLYVINYL CHLORIDE CONDUIT
CNC	COILABLE NONMETALLIC CONDUIT
	EXISTING HANDHOLE
	PROPOSED HANDHOLE
	EXISTING DOUBLE HANDHOLE
	EXISTING STEEL MAST ARM ASSEMBLY AND POLE
	EXISTING TRAFFIC SIGNAL POST
	PROPOSED TRAFFIC SIGNAL POST
	EXISTING SIGNAL HEAD (NO BACKPLATE)
	PROPOSED SIGNAL HEAD (NO BACKPLATE)
	EXISTING SIGNAL HEAD (WITH BACKPLATE)
	PROPOSED SIGNAL HEAD (WITH BACKPLATE)
	EXISTING PEDESTRIAN SIGNAL HEAD
	PROPOSED PEDESTRIAN SIGNAL HEAD
	EXISTING PEDESTRIAN PUSH BUTTON
	PROPOSED PEDESTRIAN PUSH BUTTON
	EXISTING MAST ARM MOUNTED SIGN

FILE NAME = S:\Projects\2018 Projects\518-2093-01E - Edwardsville Troy Rd ITS and F&A Design\000 Sheets\08-sh1-genNotes.dgn



USER NAME - LJackson	DESIGNED - NMN	REVISED -
MODEL NAME - GEN NOTES 1	DRAWN - CJW	REVISED -
PLOT SCALE - 2:0000' = 1" IN.	CHECKED - TWK	REVISED -
PLOT DATE - 4/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS &
HIGHWAY STANDARDS

SCALE: SHEET 1 OF 1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	2
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED.AID PROJECT				

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	
						CITY OF EDWARDSVILLE	
						CMAQ 80% FED 20% LOCAL	100% LOCAL
SPEC PROV	SPEC ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS	ROADWAY
						0021	0004
						URBAN	URBAN
	Δ	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	369	0	369
	Δ	42001300	PROTECTIVE COAT	SQ YD	369	0	369
	Δ	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	2,517	0	2,517
	Δ	42400800	DETECTABLE WARNINGS	SQ FT	250	0	250
	Δ	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	261	0	261
	Δ	44000600	SIDEWALK REMOVAL	SQ FT	2,401	0	2,401
	Δ	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	261	0	261
*	Δ	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	0	250
*	Δ	66900530	SOIL DISPOSAL ANALYSIS	EACH	6	0	6
*	Δ	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0	1
*	Δ	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0	1
*	Δ	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	8	0	8
		67100100	MOBILIZATION	L SUM	1	0.50	0.50

* = SPECIAL PROVISION
Δ = SPECIALTY ITEM

XXX = QUANTITY TO BE UPDATED ONCE IDOT BDE STAFF HAS COMPLETED THEIR REVIEW OF PESA DOCUMENTATION

FILE NAME: S:\Projects\2018 Projects\16-00108-00-01E - Edwardsville - Troy Rd ITS and FTA\Design\CADD Sheets\08-ah-500.dgn

	USER NAME = jackson	DESIGNED = NMN	REVISED = -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	MODEL NAME = SOQ 01	DRAWN = CJW	REVISED = -			16-00108-00-TL	MADISON	52	3	
	PLOT SCALE = 2.0000' / IN.	CHECKED = TWK	REVISED = -			FAP 600/FAU 8887	CONTRACT NO. 97777			
PLOT DATE = 4/15/2022	DATE = 2/1/2022	REVISED = -		SCALE:	SHEET 1 OF 5 SHEETS	ILLINOIS FED. AID PROJECT				

FILE NAME: S:\Projects\2018 Projects\518-8003-DTE - Edwardsville - Troy Rd ITS and FVA Design\CADD Sheets\DR-nht-500.dgn

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	
						CITY OF EDWARDSVILLE	
SPEC PROV	SPEC ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CMAQ 80% FED 20% LOCAL	100% LOCAL
						TRAFFIC SIGNALS 0021 URBAN	ROADWAY 0004 URBAN
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	75	37.5	37.5
		72000100	SIGN PANEL - TYPE 1	SQ FT	19	19	0
		72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	25	25	0
		72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	143	143	0
	Δ	78006150	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,794	0	1,794
	Δ	78006180	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	133	0	133
		78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,876	0	1,876
		81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1,224	1,224	0
		81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	20	20	0
		81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	2,713	2,713	0
		81400100	HANDHOLE	EACH	3	3	0
		85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	3	3	0
	*	85706000	INTERSECTION MONITOR UNIT	EACH	6	6	0

* = SPECIAL PROVISION
 Δ = SPECIALTY ITEM



USER NAME = ljackson
 MODEL NAME = S04 02
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 4/15/2022

DESIGNED NMN
 DRAWN CJW
 CHECKED TWK
 DATE - 2/1/2022

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 5 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	4
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	
						CITY OF EDWARDSVILLE	
						CMAQ 80% FED 20% LOCAL	100% LOCAL
						TRAFFIC SIGNALS	ROADWAY
SPEC PROV	SPEC ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021 URBAN	0004 URBAN
		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,440	3,440	0
		87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,390	1,390	0
		87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,820	3,820	0
		87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	840	840	0
		87301805	ELECTRIC CABLE IN CONDUIT, SERVICE. NO. 6 2 C	FOOT	40	40	0
		87301900	ELECTRIC CABLE IN CONDUIT. EQUIPMENT GROUNDING CONDUCTOR. NO. 6 1C	FOOT	590	590	0
*		87502250	TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.	EACH	8	8	0
*		87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	9	9	0
*		87601200	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	1	1	0
		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	54	54	0
		87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3	3	0
		87900200	DRILL EXISTING HANDHOLE	EACH	38	38	0
		88030020	SIGNAL HEAD, LED. 1-FACE. 3-SECTION. MAST-ARM MOUNTED	EACH	4	4	0

* = SPECIAL PROVISION
 Δ = SPECIALTY ITEM

FILE NAME: S:\Projects\218 Projects\1818-0093-DTE - Edwardsville Tree Rd ITS and FYNDesign\CADD Sheets\08-sh1-900.dgn



USER NAME = tjackson
 MODEL NAME = SOQ 03
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 4/15/2022

DESIGNED NMN
 DRAWN CJW
 CHECKED TWK
 DATE = 2/1/2022

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	5
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	
						CITY OF EDWARDSVILLE	
SPEC PROV	SPEC ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CMAQ 80% FED 20% LOCAL	100% LOCAL
						TRAFFIC SIGNALS	ROADWAY
						0021 URBAN	0004 URBAN
		88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	20	20	0
		88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4	4	0
		88800100	PEDESTRIAN PUSH-BUTTON	EACH	20	20	0
		89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	34	34	0
*		89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1	1	0
		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9,245	9,245	0
		89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	1,020	1,020	0
		89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5	5	0
*		Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.50	0.50
*		X1400158	FIBER OPTIC SPLICE ENCLOSURE	EACH	9	9	0
*		X1400216	LAYER II (DATALINK) SWITCH	EACH	9	9	0
*		X1400217	TERMINATE FIBER IN CABINET	EACH	36	36	0
*		X1400423	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	26	26	0

* = SPECIAL PROVISION
 Δ = SPECIALTY ITEM

FILE NAME: S:\Projects\2018 Projects\518-8093-01E - Edwardsville - Tray Rd ITS and FVA\Design\CADD Sheets\08-shv-SDD.dgn

	USER NAME = jackson	DESIGNED = NMN	REVISED = -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	MODEL NAME = SOQ 04	DRAWN = CWJ	REVISED = -			16-00108-00-TL	MADISON	52	6	
	PLOT SCALE = 2.0000' / in.	CHECKED = TWK	REVISED = -			FAP 600/FAU 8887	CONTRACT NO. 9777			
PLOT DATE = 4/15/2022	DATE = 2/1/2022	REVISED = -		SCALE:		SHEET 4 OF 5 SHEETS		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES						CONSTRUCTION CODE	
						CITY OF EDWARDSVILLE	
						CMAQ 80% FED 20% LOCAL	100% LOCAL
						TRAFFIC SIGNALS	ROADWAY
SPEC PROV	SPEC ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021 URBAN	0004 URBAN
*		X1400437	GPS CLOCK SYNC UNIT	EACH	9	9	0
*		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.50	0.50
*		X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1	1	0
*		X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	6	6	0
*		X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	11,880	11,880	0
*		X8710071	FIBER OPTIC FUSION SPLICE	EACH	64	64	0
*		X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	8	0
*		X8950060	REMOVE EXISTING CONTROLLER	EACH	6	6	0
*		X8950105	REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	3	3	0
*		X8950125	REMOVE EXISTING INTERSECTION MONITOR UNIT	EACH	6	6	0
*		X8950301	REMOVE EXISTING TRAFFIC SIGNAL POST	EACH	4	4	0
*		X8950305	REMOVE EXISTING SIGNAL HEAD	EACH	4	4	0
*		X8950307	REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	18	18	0

* = SPECIAL PROVISION
 Δ = SPECIALTY ITEM

FILE NAME: S:\Projects\2218 Projects\2218-0093-07E - Edwardsville Truss Rd ITS and FTA Design\GOOD Sheets\08-shl-500.dgn



USER NAME = jackson
 MODEL NAME = SOQ.05
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 4/15/2022

DESIGNED NMN
 DRAWN CJW
 CHECKED TWK
 DATE = 2/1/2022

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	7
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES (NON-TRAFFIC SIGNAL OR INTERCONNECT RELATED PAY ITEMS)										
LOCATION	AGGREGATE BASE COURSE, TYPE B 4"	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	DETECTABLE WARNINGS	COMBINATION CURB & GUTTER REMOVAL	SIDEWALK REMOVAL	COMBINATION CONCRETE CURB & GUTTER, B-6.24	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 12"	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 24"	PAVEMENT MARKING REMOVAL - WATER BLASTING
	SQ YD	SQ YD	SQ FT	SQ FT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT
ROUTE 159										
SE QUADRANT	19	19	111	19	20	140	20	230	38	300
NE QUADRANT	19	19	125	21	14	120	14			
GOVERNORS PKWY										
SW QUADRANT	28	28	151	25	33	189	32	616	0	615
NW QUADRANT	50	50	372	20	25	353	25			
NE QUADRANT	47	47	328	25	30	318	30			
EDWARDSVILLE CROSSING DR										
SE QUADRANT	17	17	109	19	13	94	13	400	41	253
SW QUADRANT	20	20	123	15	19	143	20			
NW QUADRANT	19	19	114	15	20	137	20			
NE QUADRANT	18	18	113	21	17	87	17			
HARVARD DR										
SE QUADRANT	39	39	270	27	26	203	26	411	54	588
NE QUADRANT	38	38	281	14	20	229	20			
MONTCLAIRE AVE										
SE QUADRANT	39	39	313	12	11	290	11	137	0	120
NE QUADRANT	16	16	107	17	13	98	13			
TOTAL	369	369	2517	250	261	2401	261	1794	133	1876

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville - Edwardsville Trce, Rd ITS and FVA Design\CADD Sheets\05-sh-500.dgn



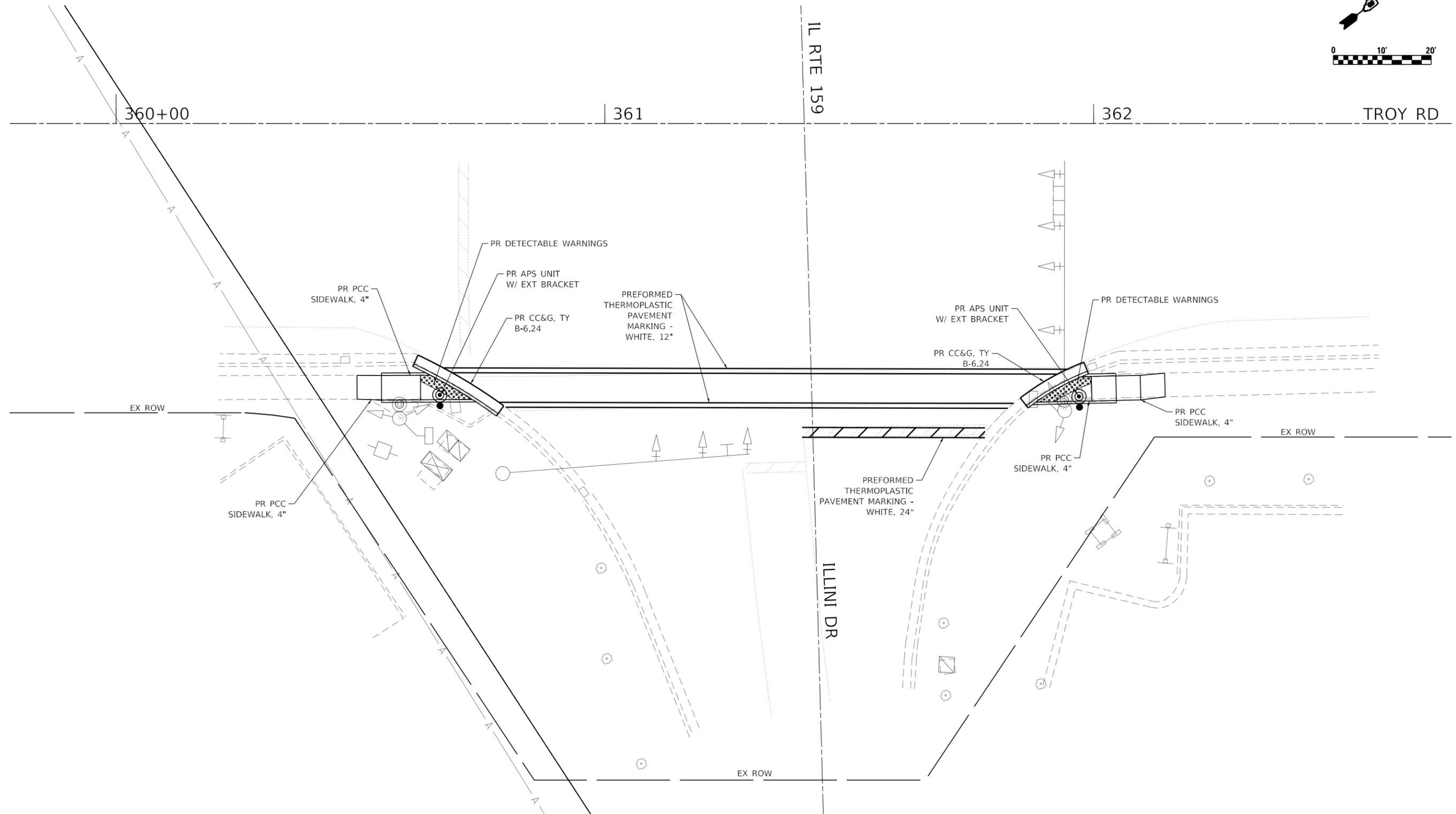
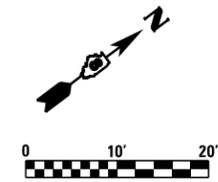
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MODEL NAME = SCHED01	DRAWN = CJW	REVISED = -
PLOT SCALE = 2.0000" / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/15/2022	DATE = 2/1/2022	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 1 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	8
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\05-st-Ramp_Detail.dgn



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MODEL NAME =	A_IL RT 159	DRAWN	CJW	REVISED	-
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PLOT DATE =	4/11/2022	DATE	-	REVISED	-

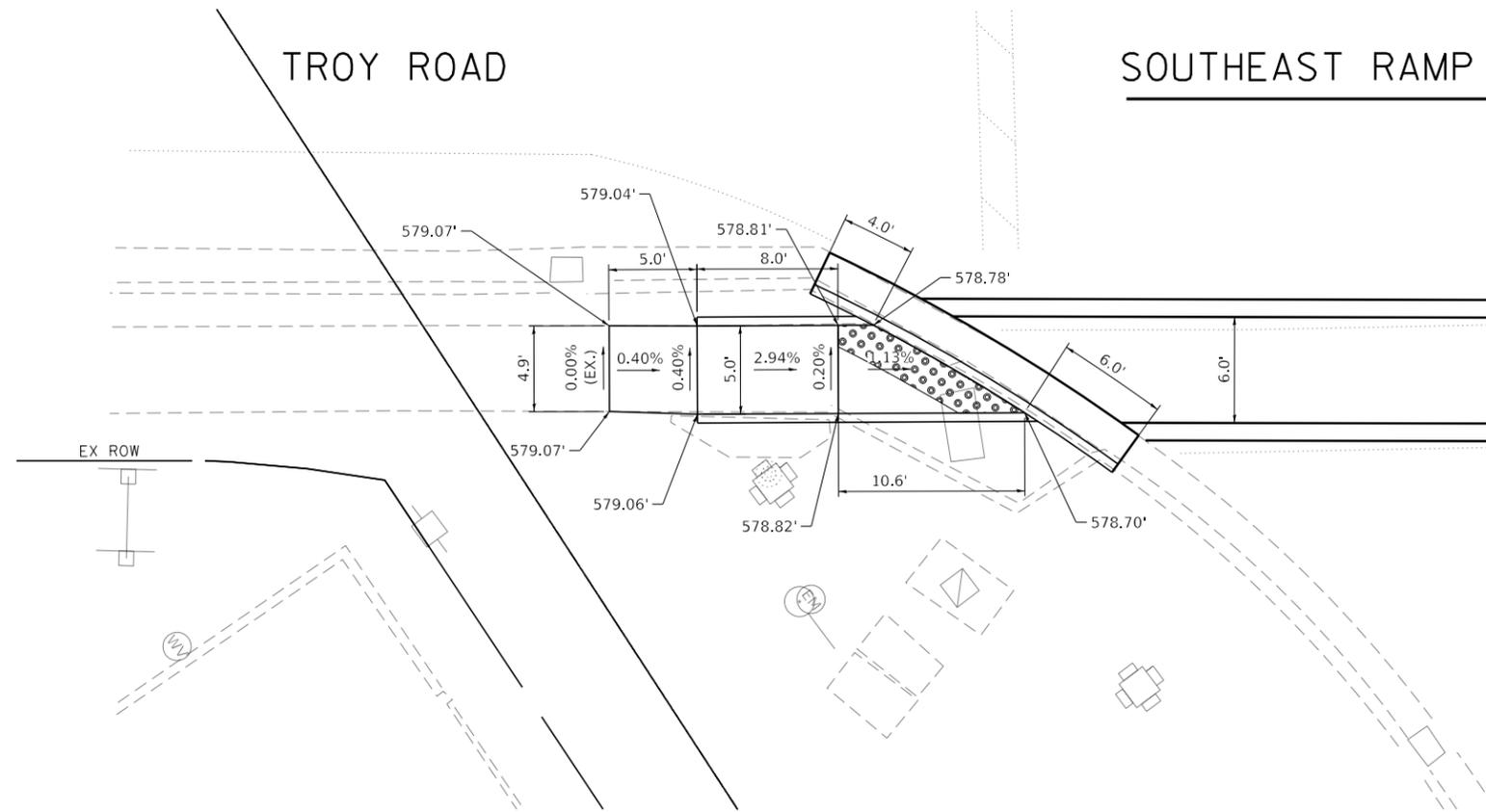
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB RAMP DETAILS
TROY RD AND IL RTE 159 (1 OF 2)**

SCALE: 1:10 SHEET 1 OF 10 SHEETS

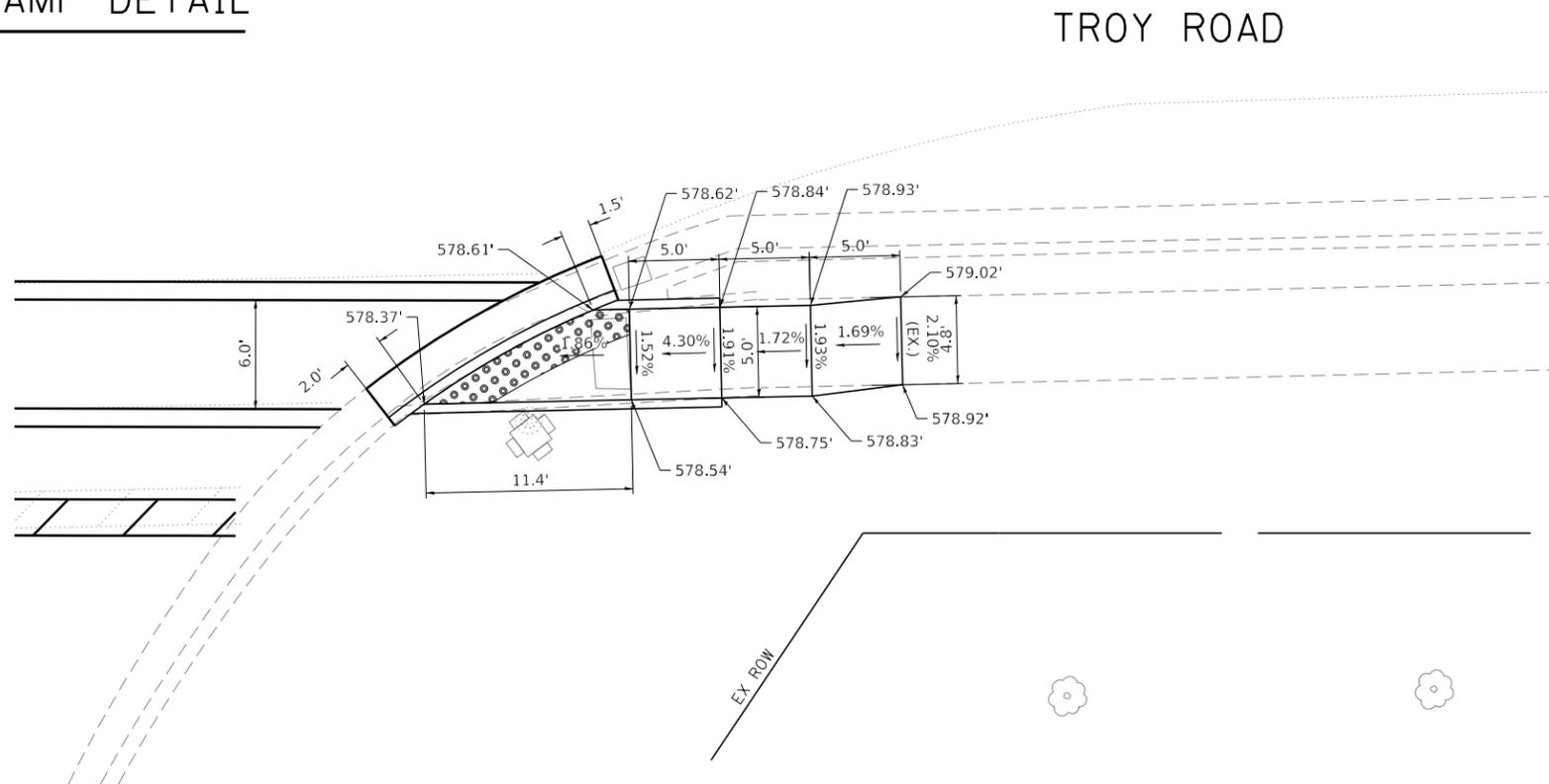
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	9
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

SOUTHEAST RAMP DETAIL



IL ROUTE 159

NORTHEAST RAMP DETAIL



IL ROUTE 159

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd IIS and FVA Design\CADD Sheets\05-sh-ramp-Detail.dgn



USER NAME	= LJackson
MODEL NAME	= B_Detail - IL RT 159
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PLOT DATE	= 4/11/2022

DESIGNED	TMG
DRAWN	CJW
CHECKED	LWJ
DATE	-

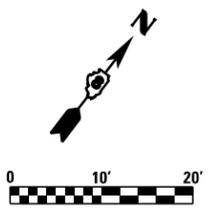
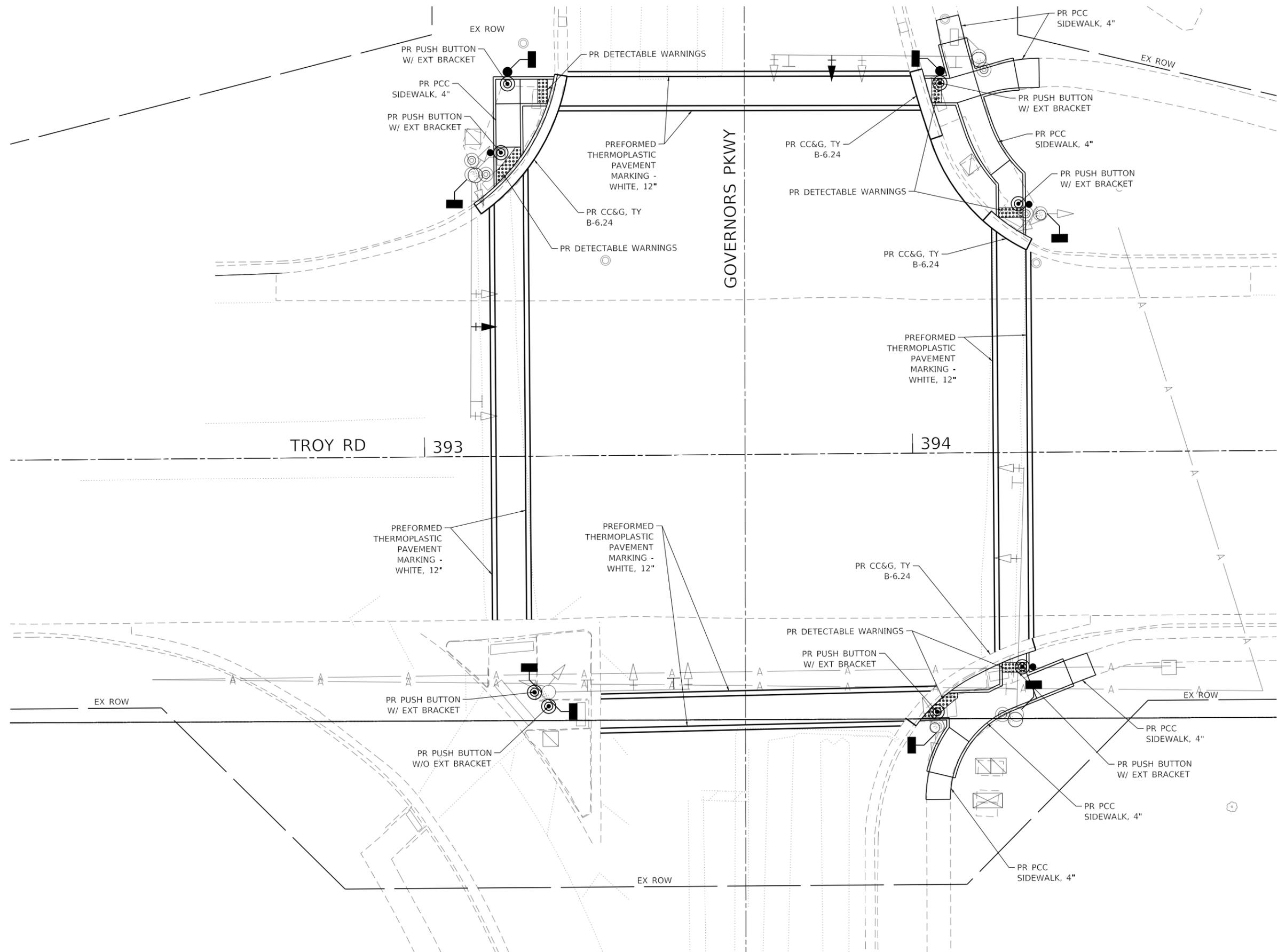
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB RAMP DETAILS
TROY RD AND IL RTE 159 (2 OF 2)**

SCALE: 1:5 SHEET 2 OF 10 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	10
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\05-shr-ramp_Details.dgn



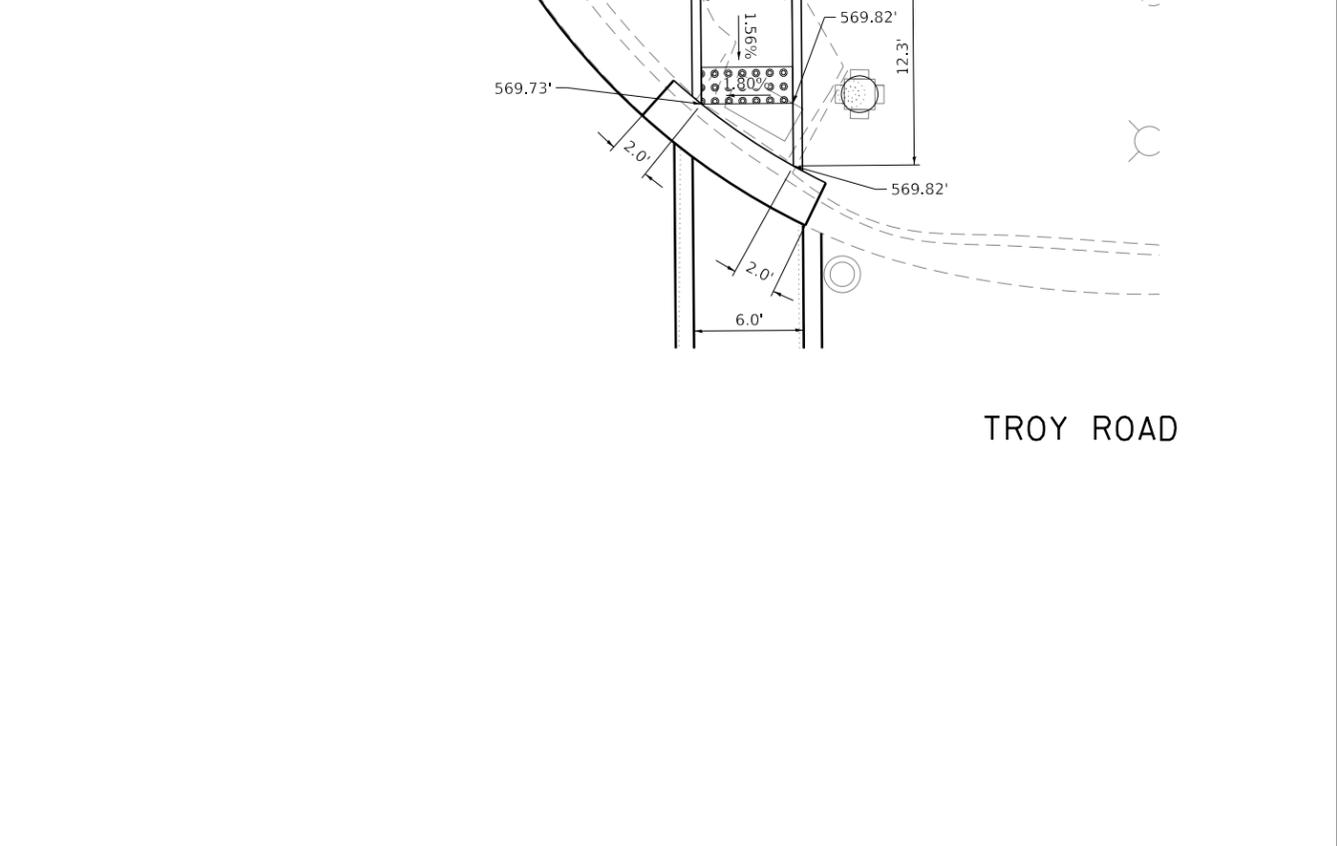
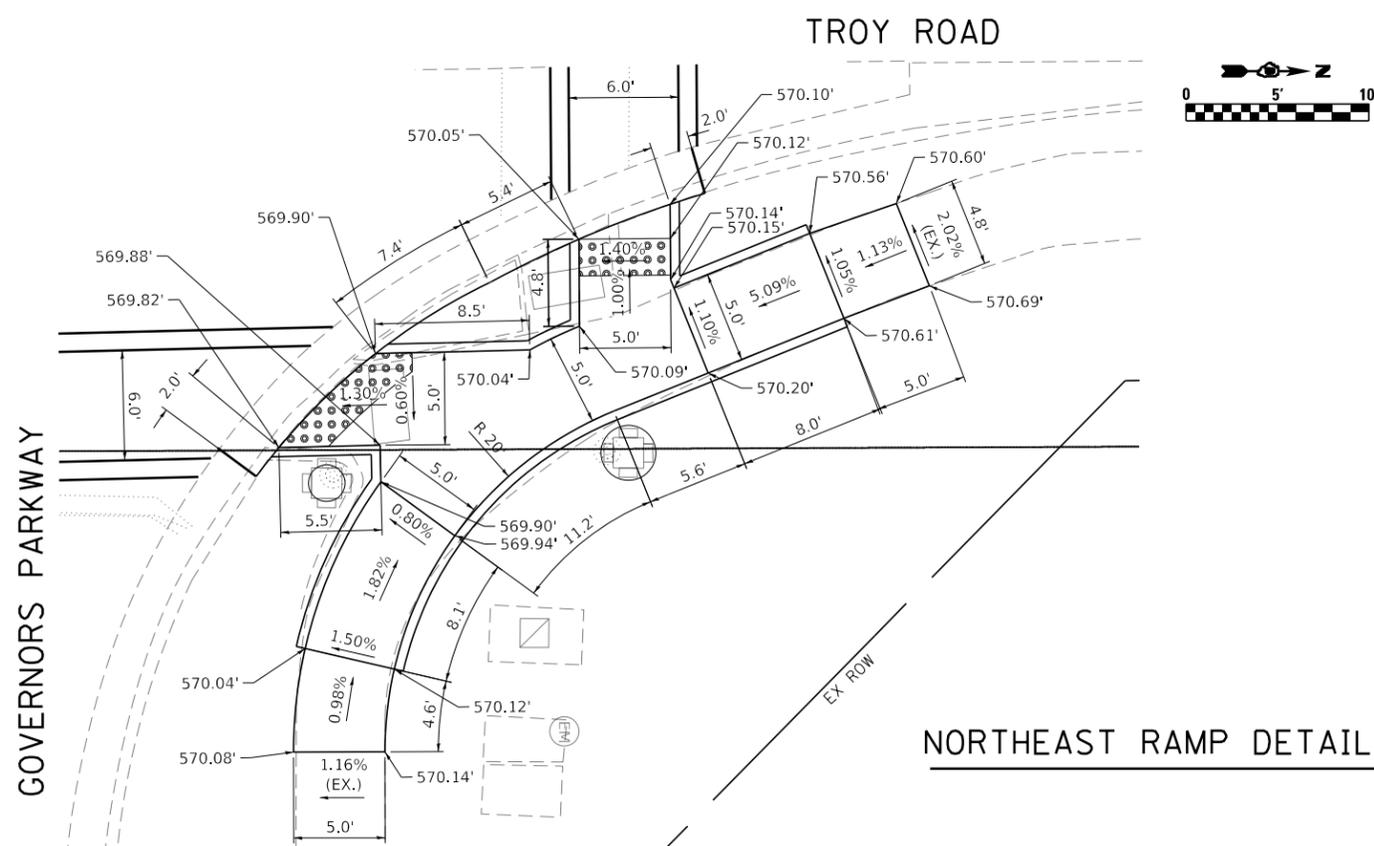
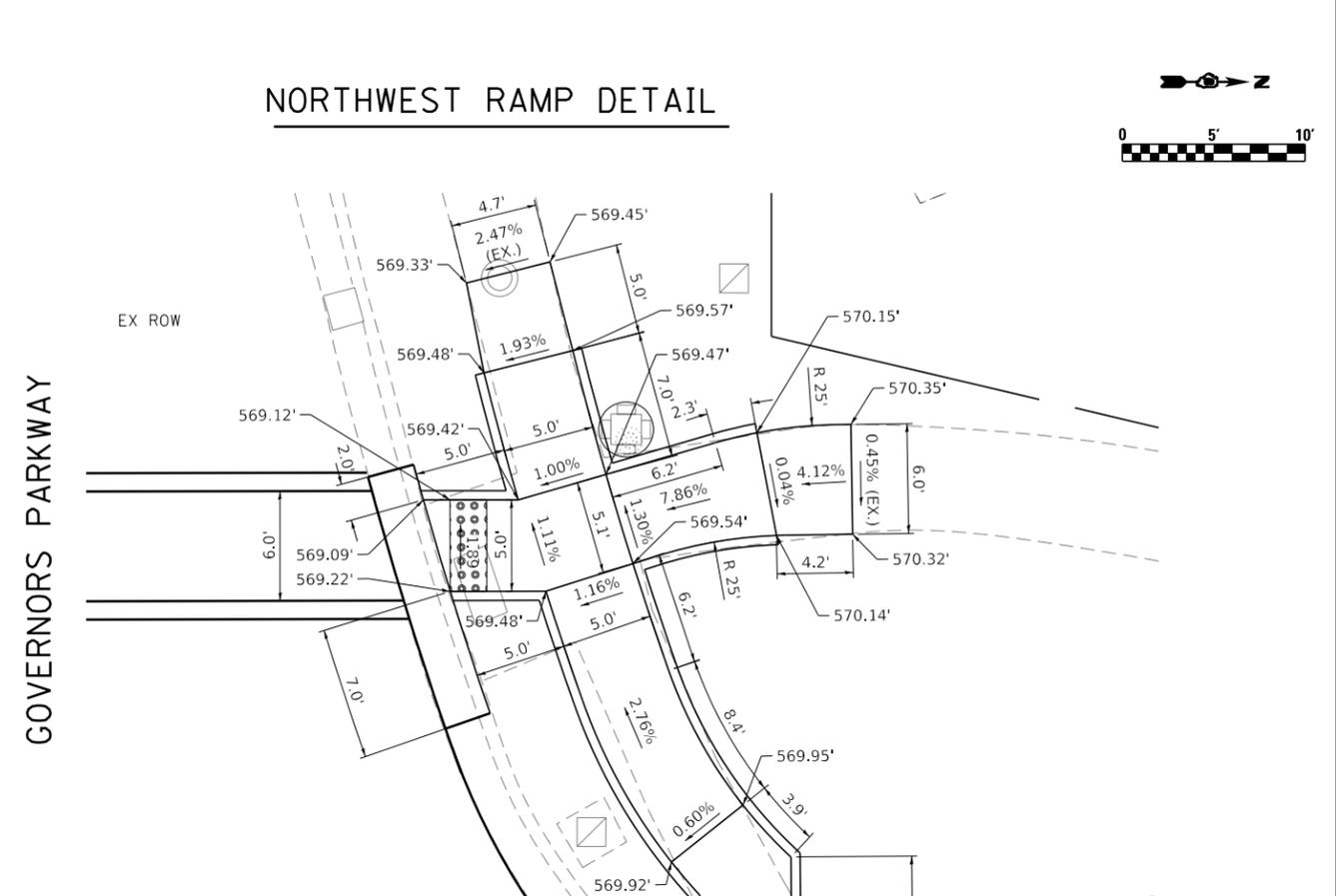
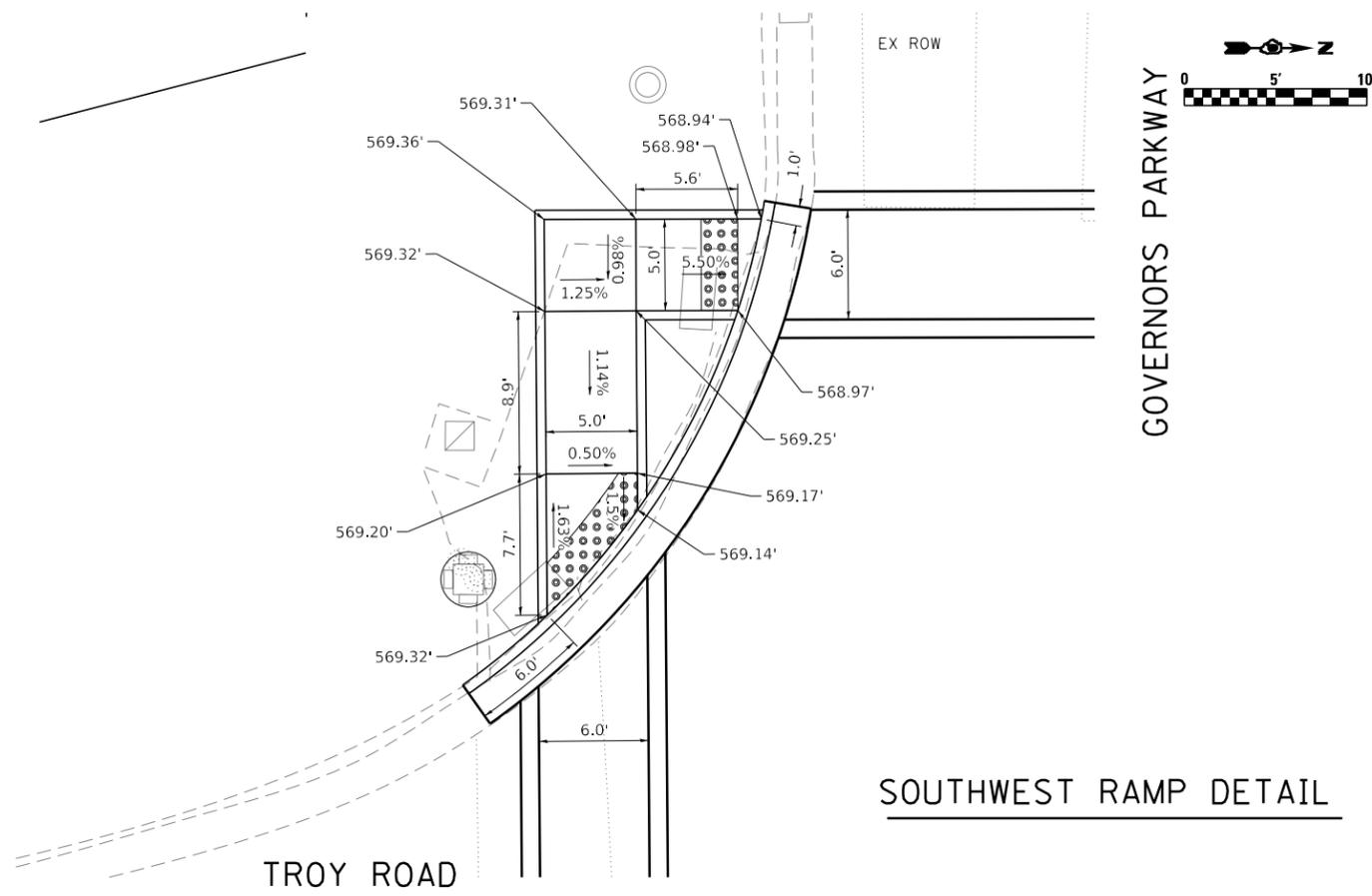
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MODEL NAME = C_Governors Parkway	DRAWN CJW	REVISED -
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PLOT DATE = 4/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB RAMP DETAILS TROY RD AND GOVERNORS PKWY (1 OF 2)		
SCALE: 1:10	SHEET 3 OF 10 SHEETS	

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	11
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS		FED. AID PROJECT		

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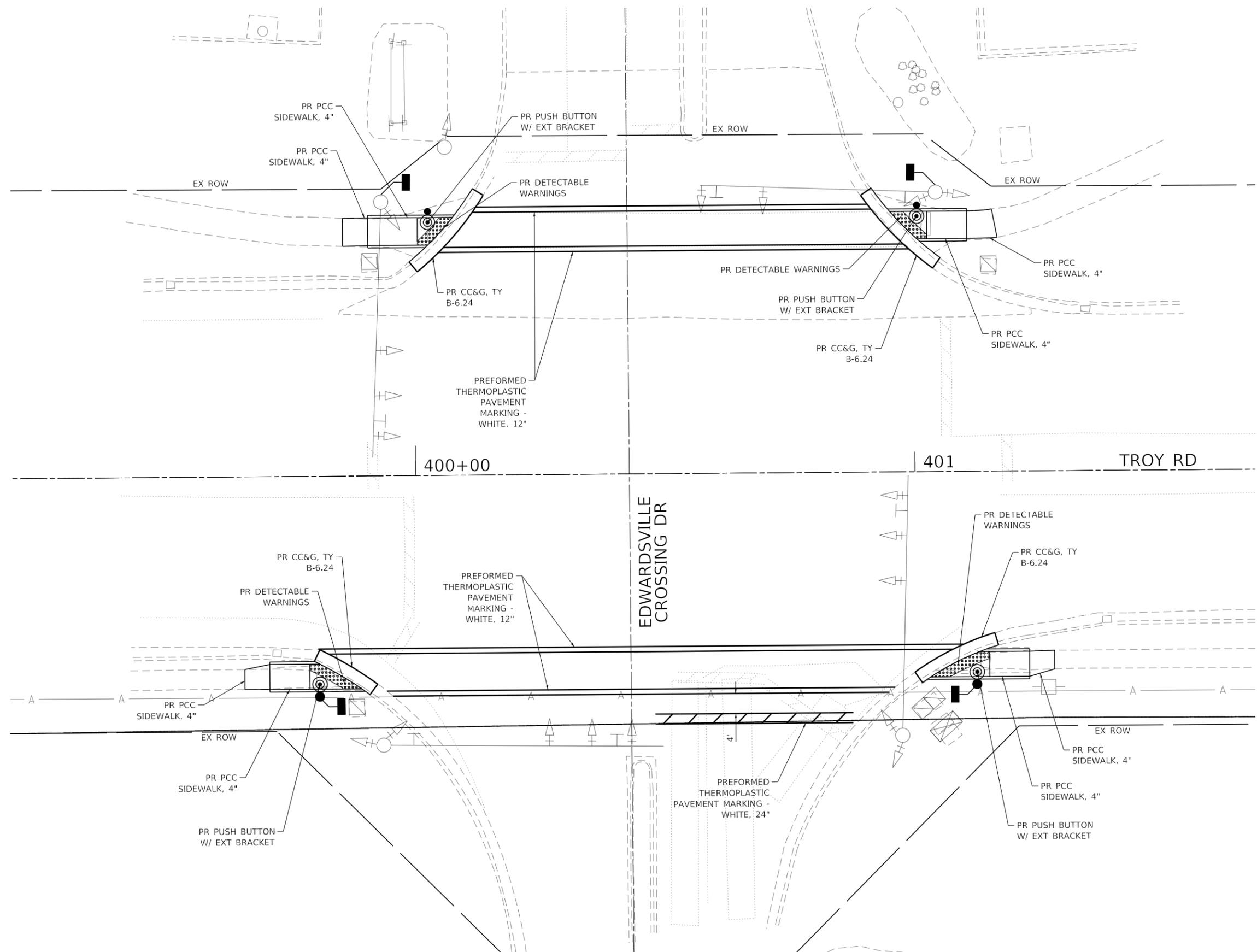
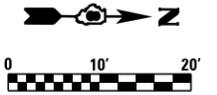
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MODEL NAME = D_Detail - Governors Parkway	DRAWN CJW	REVISED -
PLOT SCALE = 10.0000" / ft.	CHECKED LWJ	REVISED -
PLOT DATE = 4/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB RAMP DETAILS
TROY RD AND GOVERNORS PKWY (2 OF 2)**

SCALE: 1:5 SHEET 4 OF 10 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	12
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\06-st-Ramp_Details.dgn



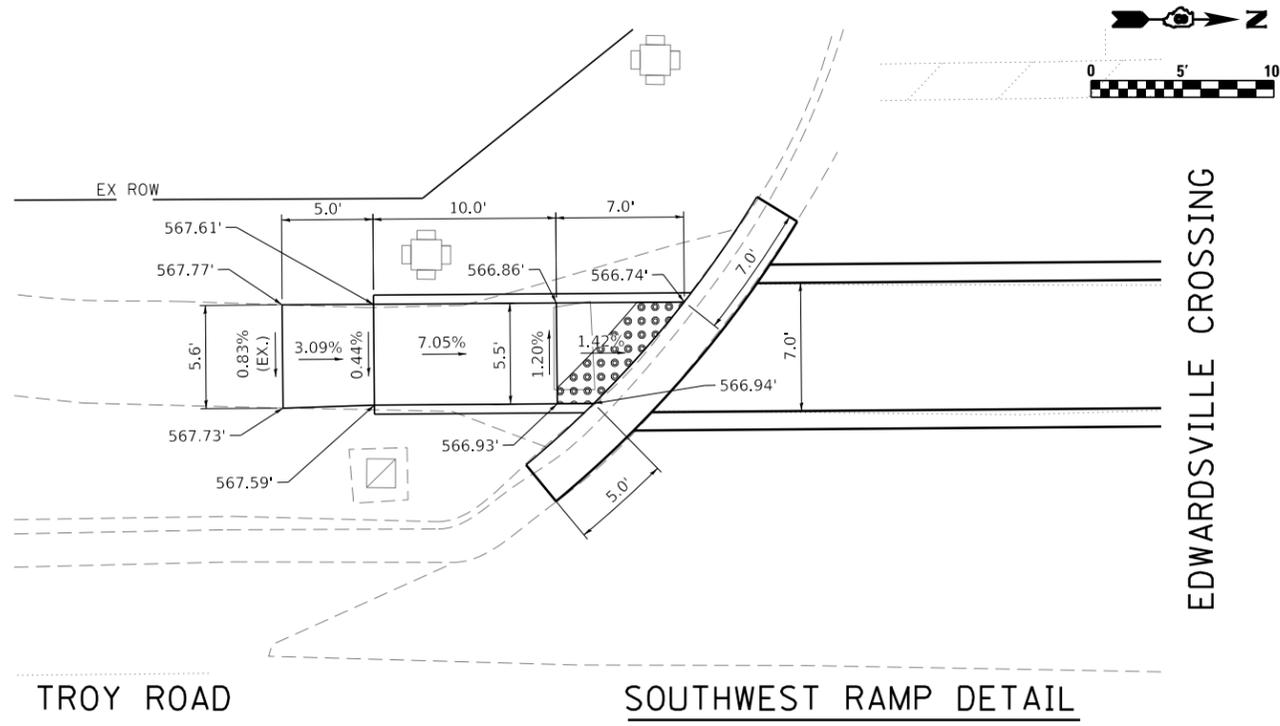
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MODEL NAME =	F_Edwardsville Crossing	DRAWN	CJW	REVISED	-
PLOT SCALE =	20.0000' / in.	CHECKED	LWJ	REVISED	-
PLOT DATE =	4/11/2022	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB RAMP DETAILS
TROY RD EDWARDSVILLE CROSSING DR (1 OF 2)**

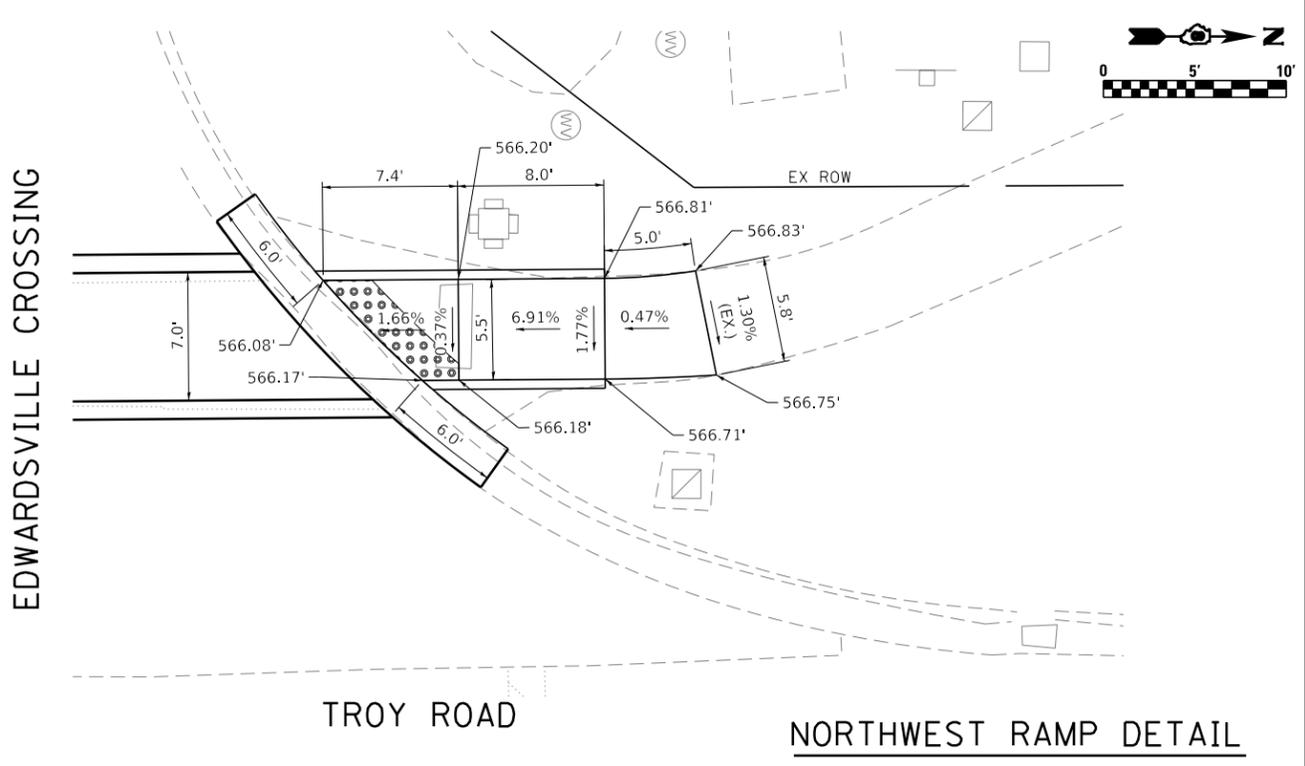
SCALE: 1:10 SHEET 5 OF 10 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				



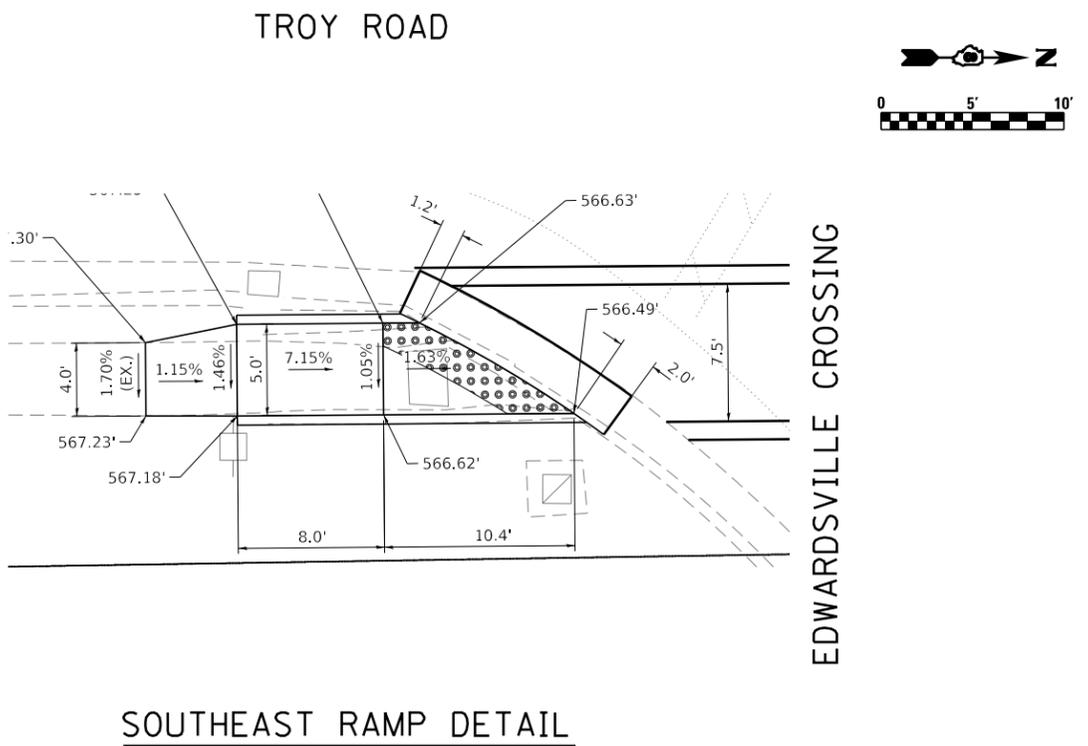
TROY ROAD SOUTHWEST RAMP DETAIL

EDWARDSVILLE CROSSING



TROY ROAD NORTHWEST RAMP DETAIL

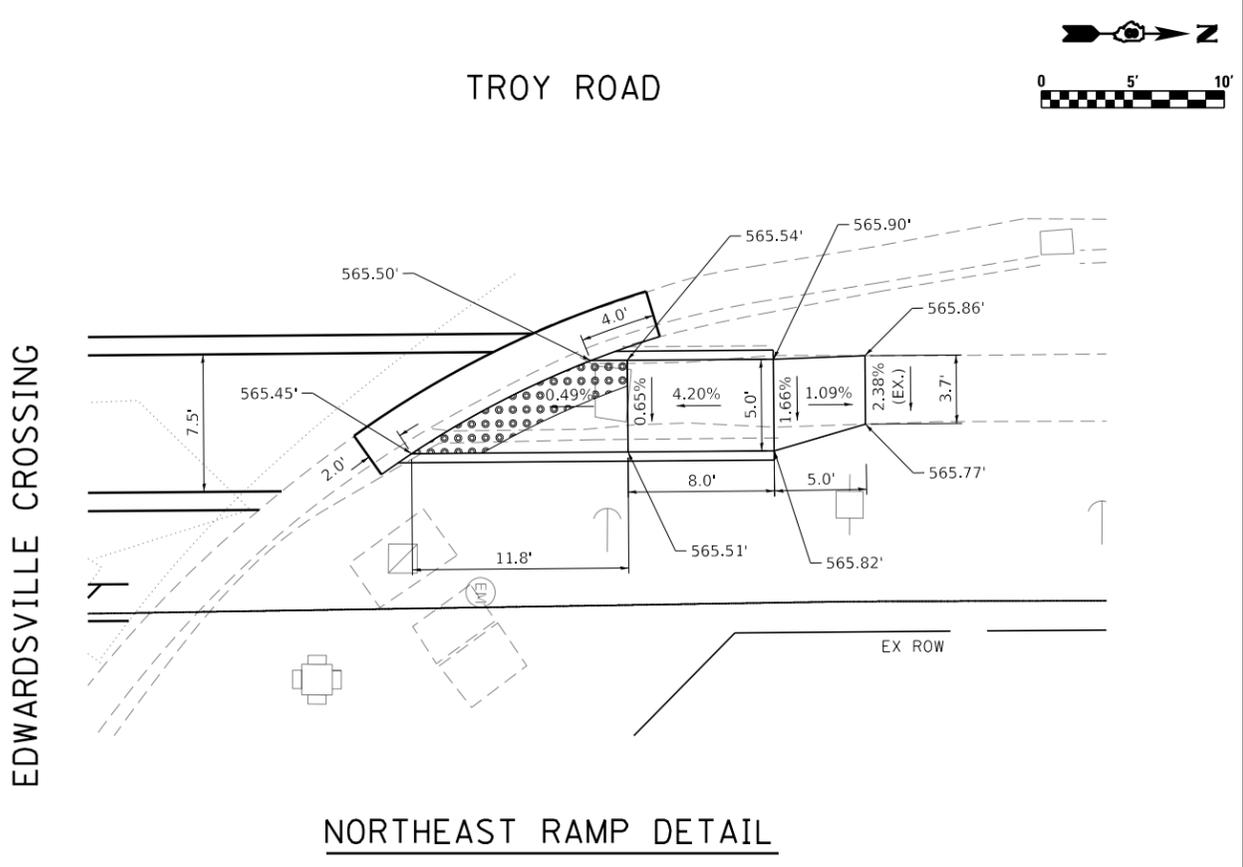
EDWARDSVILLE CROSSING



SOUTHEAST RAMP DETAIL

EDWARDSVILLE CROSSING

TROY ROAD



NORTHEAST RAMP DETAIL

EDWARDSVILLE CROSSING

TROY ROAD

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville Troy Rd ITS and FVA Design\CADD Sheets\05-st-Ramp_Detail.dgn

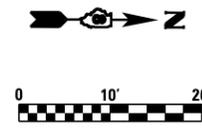
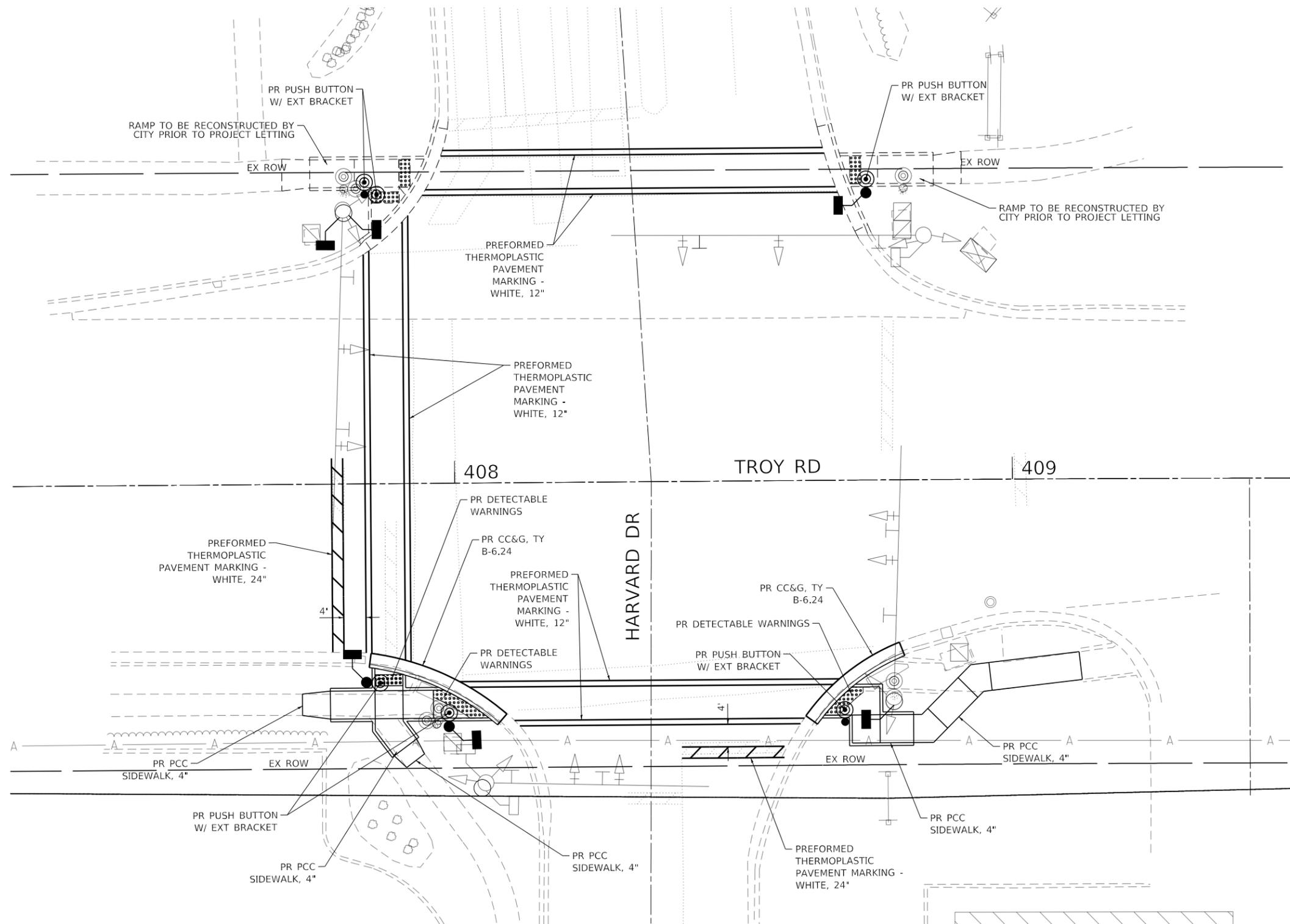


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MODEL NAME = G_Detail - Edwardsville Crossing	DRAWN CJW	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED LWJ	REVISED -
PLOT DATE = 4/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB RAMP DETAILS		
TROY RD AND EDWARDSVILLE CROSSING DR (2 OF 2)		
SCALE: 1:5	SHEET 6 OF 10 SHEETS	

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	14
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville - Troy Rd ITS and FVA Design\CADD Sheets\05-st-Ramp_Details.dgn



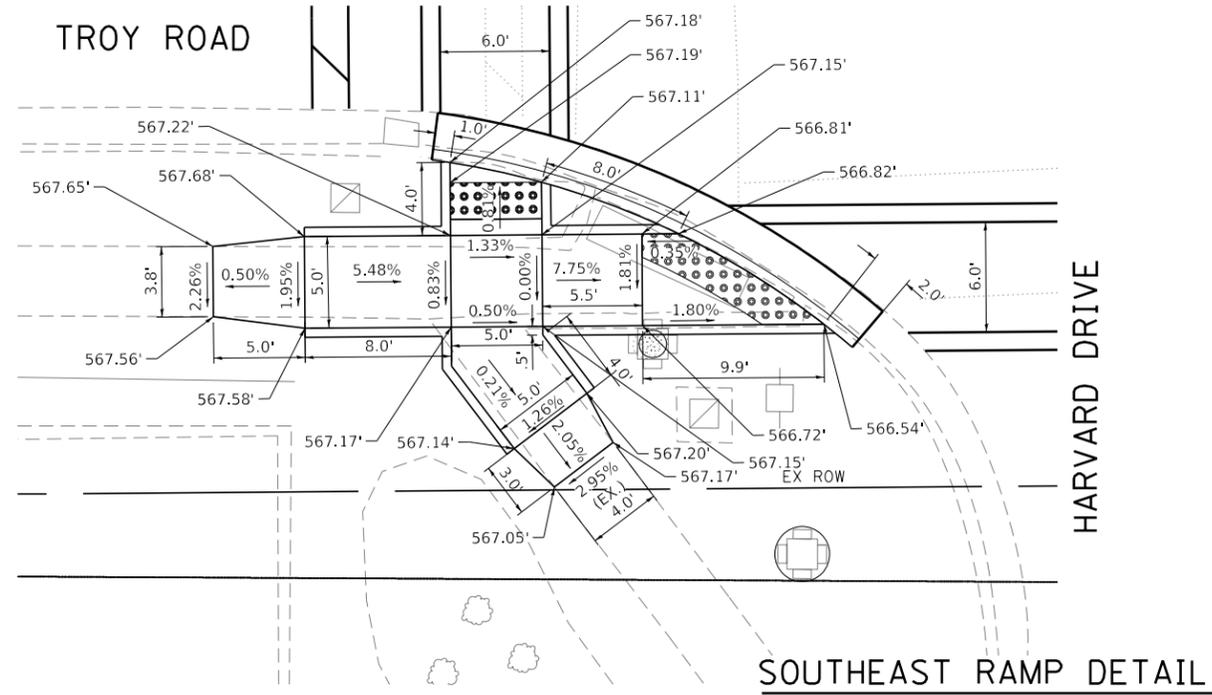
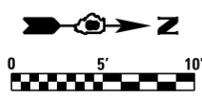
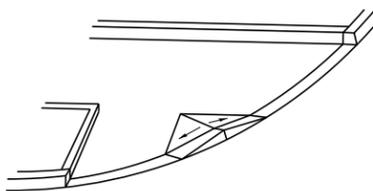
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MODEL NAME = H_Harvard Drive	DRAWN CJW	REVISED -
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PLOT DATE = 4/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

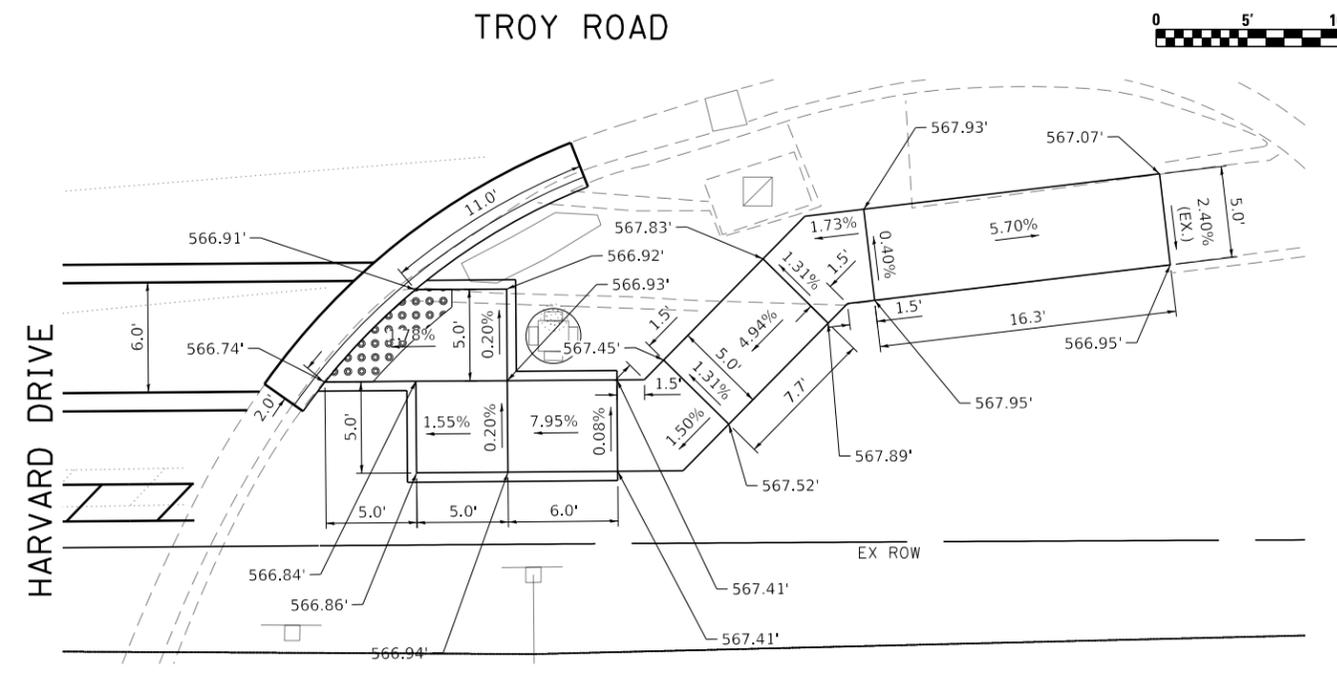
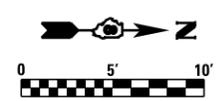
**CURB RAMP DETAILS
TROY RD AND HARVARD DR (1 OF 2)**

SCALE: 1:10 SHEET 7 OF 10 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	15
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				



SOUTHEAST RAMP DETAIL



NORTHEAST RAMP DETAIL

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd IIS and FVA Design\CADD Sheets\08-st-Ramp_Detail.dgn



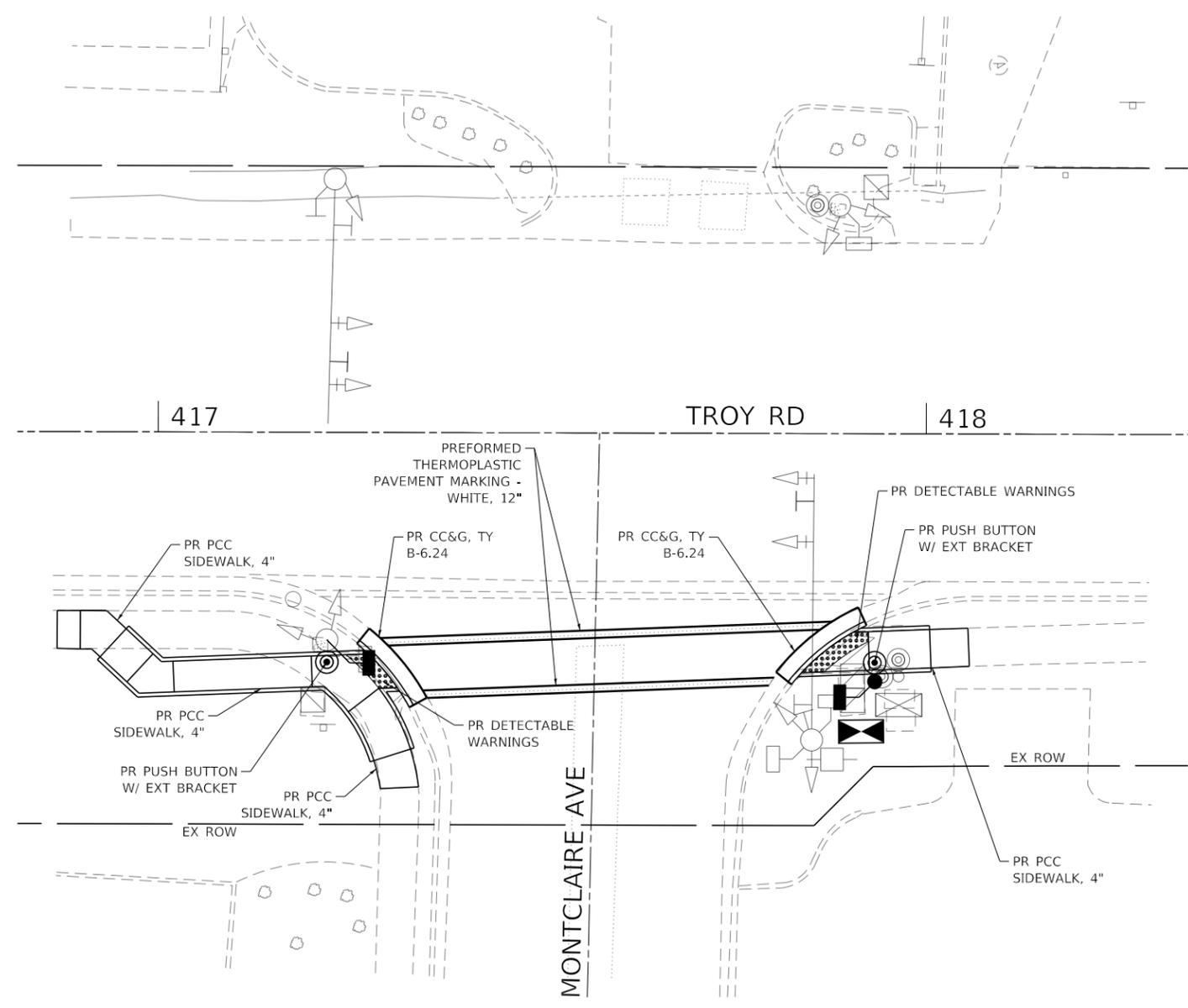
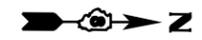
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PLOT DATE =	4/11/2022	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB RAMP DETAILS
TROY RD AND HARVARD DRIVE (2 OF 2)**

SCALE: 1:5 SHEET 8 OF 10 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	16
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville - Troy Rd ITS and FVA Design\CADD Sheets\05-shr-Ramp_Details.dgn



USER NAME = LJackson	DESIGNED TMG	REVISED -
MODEL NAME = J_Montclaire Avenue	DRAWN CJW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED LWJ	REVISED -
PLOT DATE = 4/11/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB RAMP DETAILS
TROY RD AND MONTCLAIRE AVE (1 OF 2)**

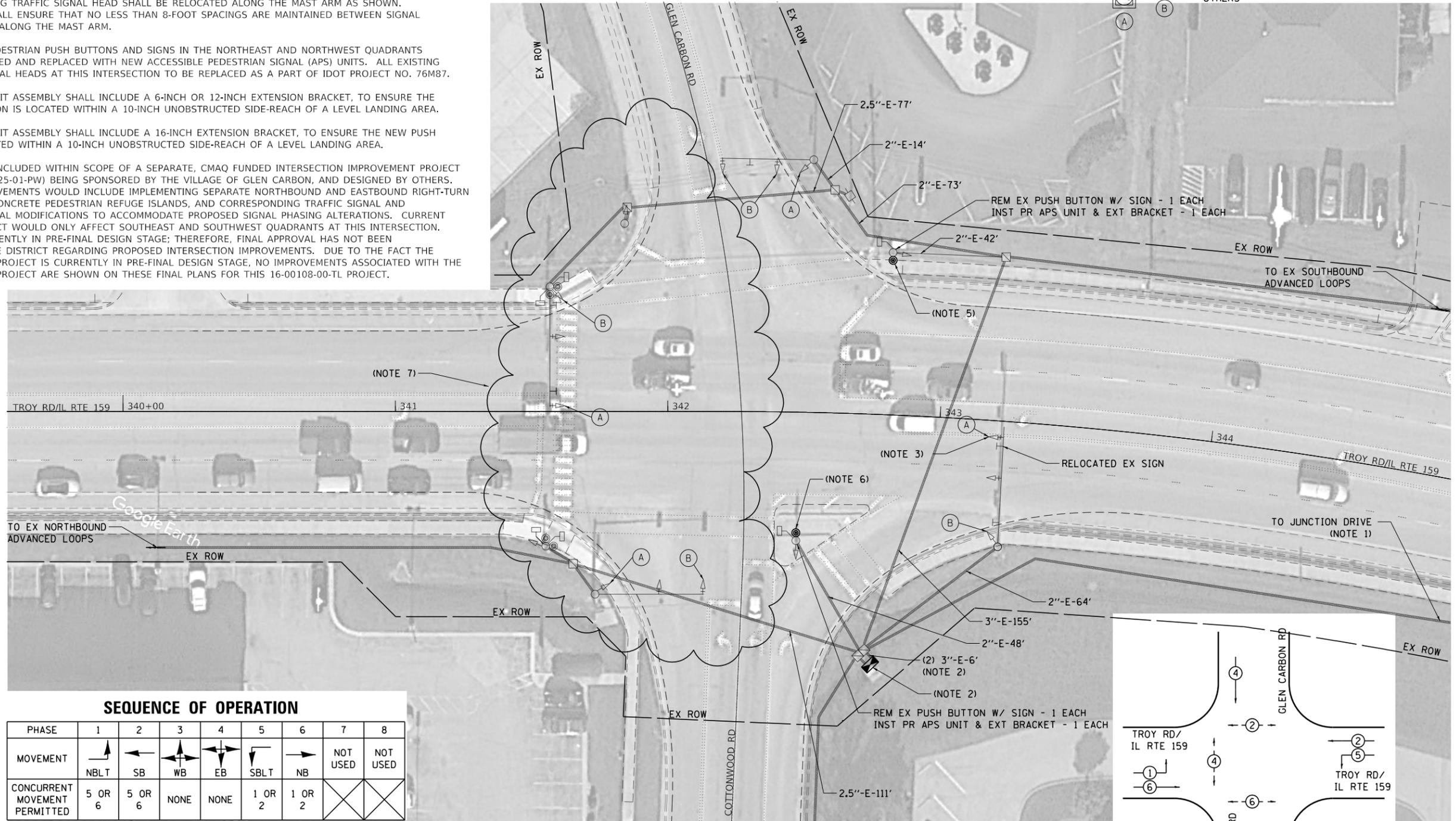
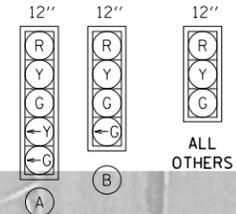
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FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	17
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL GENERAL NOTES

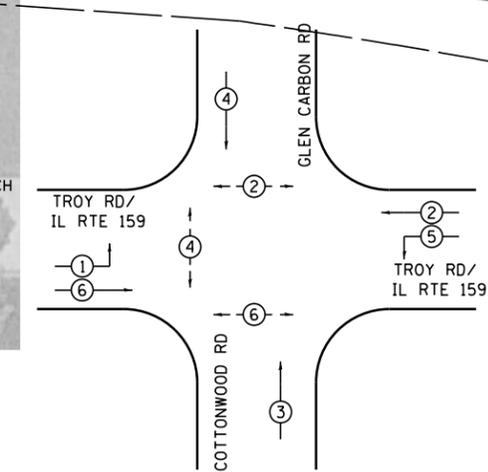
- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER AND NEW TYPE IV CABINET ON THE EXISTING CONCRETE FOUNDATION. THE NEW SIGNAL CABINET SHALL BE CAPABLE OF ACCOMMODATING FLASHING YELLOW ARROW OPERATIONS.
- DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.
- ALL EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS IN THE NORTHEAST AND NORTHWEST QUADRANTS SHALL BE REMOVED AND REPLACED WITH NEW ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNITS. ALL EXISTING PEDESTRIAN SIGNAL HEADS AT THIS INTERSECTION TO BE REPLACED AS A PART OF IDOT PROJECT NO. 76M87.
- DENOTED APS UNIT ASSEMBLY SHALL INCLUDE A 6-INCH OR 12-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.
- DENOTED APS UNIT ASSEMBLY SHALL INCLUDE A 16-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.
- DENOTED AREA INCLUDED WITHIN SCOPE OF A SEPARATE, CMAQ FUNDED INTERSECTION IMPROVEMENT PROJECT (SEC. NO. 19-00025-01-PW) BEING SPONSORED BY THE VILLAGE OF GLEN CARBON, AND DESIGNED BY OTHERS. SCOPE OF IMPROVEMENTS WOULD INCLUDE IMPLEMENTING SEPARATE NORTHBOUND AND EASTBOUND RIGHT-TURN LANES, RAISED CONCRETE PEDESTRIAN REFUGE ISLANDS, AND CORRESPONDING TRAFFIC SIGNAL AND PEDESTRIAN SIGNAL MODIFICATIONS TO ACCOMMODATE PROPOSED SIGNAL PHASING ALTERATIONS. CURRENT SCOPE OF PROJECT WOULD ONLY AFFECT SOUTHEAST AND SOUTHWEST QUADRANTS AT THIS INTERSECTION. PROJECT IS CURRENTLY IN PRE-FINAL DESIGN STAGE; THEREFORE, FINAL APPROVAL HAS NOT BEEN OBTAINED BY THE DISTRICT REGARDING PROPOSED INTERSECTION IMPROVEMENTS. DUE TO THE FACT THE 19-00025-01-PW PROJECT IS CURRENTLY IN PRE-FINAL DESIGN STAGE, NO IMPROVEMENTS ASSOCIATED WITH THE 19-00025-01-PW PROJECT ARE SHOWN ON THESE FINAL PLANS FOR THIS 16-00108-00-TL PROJECT.

TRAFFIC SIGNAL FACES

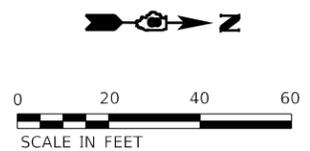


SEQUENCE OF OPERATION

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	WB	EB	SBLT	NB	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2	X	X



PHASE DESIGNATION DIAGRAM



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\05-shr-Pln-Trougden



USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 01 Signal Sheet 01 Cottonwood Glen Carbon	DRAWN = CJW	REVISED =
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PLOT DATE = 4/11/2022	DATE =	REVISED =

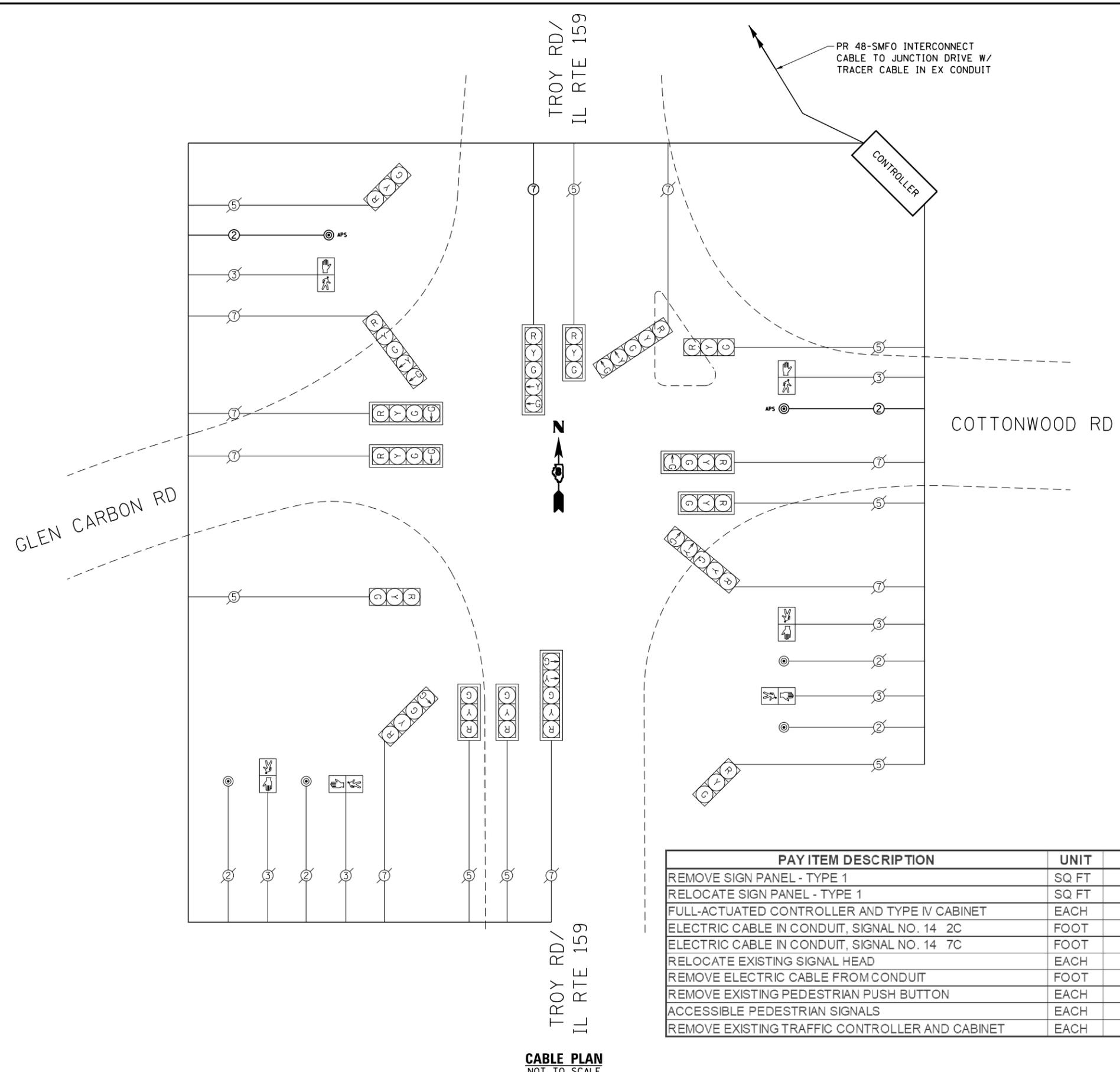
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
TROY RD AND COTTONWOOD RD**

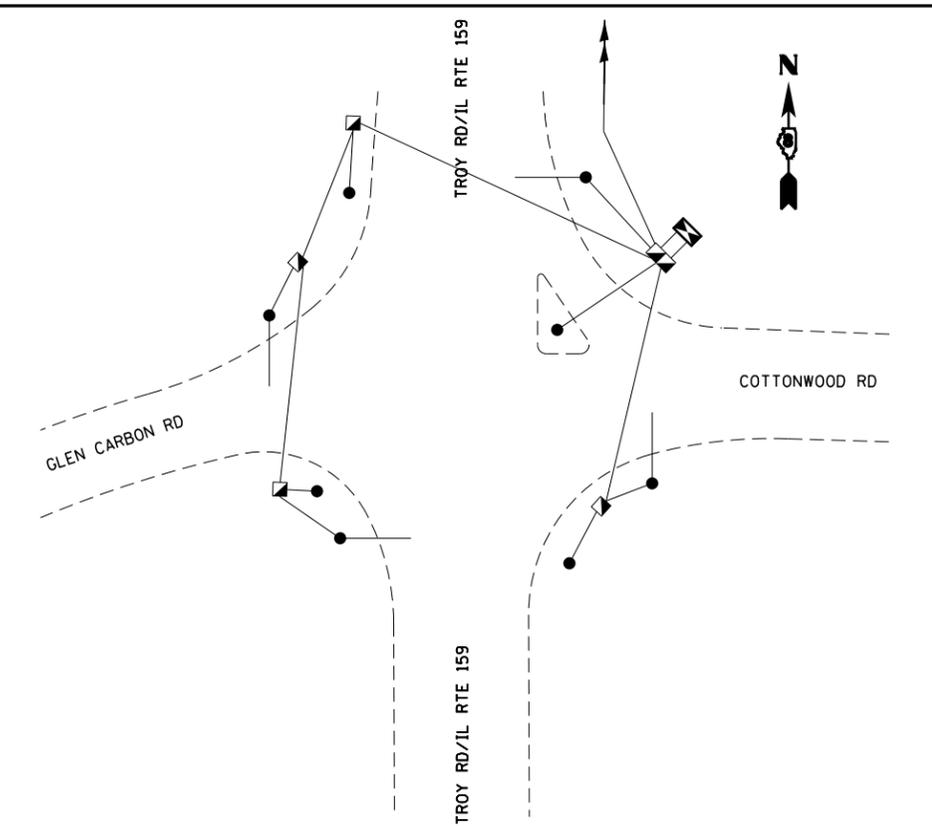
SCALE: 1:20 SHEET 1 OF 18 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	19
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd IIS and FVA Design\CADD Sheets\05-sht-Pln_Troy.dgn



CABLE PLAN
NOT TO SCALE



GROUNDING SCHEMATIC

TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

- EXISTING CABLE NUMBER
•=CABLE NUMBER
- PROPOSED CABLE NUMBER
•=CABLE NUMBER
- EXISTING TRAFFIC SIGNAL HEADS, WITHOUT BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITHOUT BACKPLATE
- EXISTING TRAFFIC SIGNAL HEADS, WITH BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITH BACKPLATE
- SIGNAL SECTION 12"
- LEFT TURN YELLOW
- LEFT TURN GREEN
- EXISTING PEDESTRIAN SIGNAL HEAD WITHOUT COUNTDOWN TIMER
- EXISTING PEDESTRIAN PUSH BUTTON
- PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT
- SMFO SINGLE MODE FIBER OPTIC CABLE

PAY ITEM DESCRIPTION	UNIT	QTY
REMOVE SIGN PANEL - TYPE 1	SQ FT	2
RELOCATE SIGN PANEL - TYPE 1	SQ FT	7.5
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	360
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	180
RELOCATE EXISTING SIGNAL HEAD	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	520
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1



USER NAME = LJackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 02 Cable Diagram 01 Cottonwood Glen Car	DRAWN = CJW	REVISED = -
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

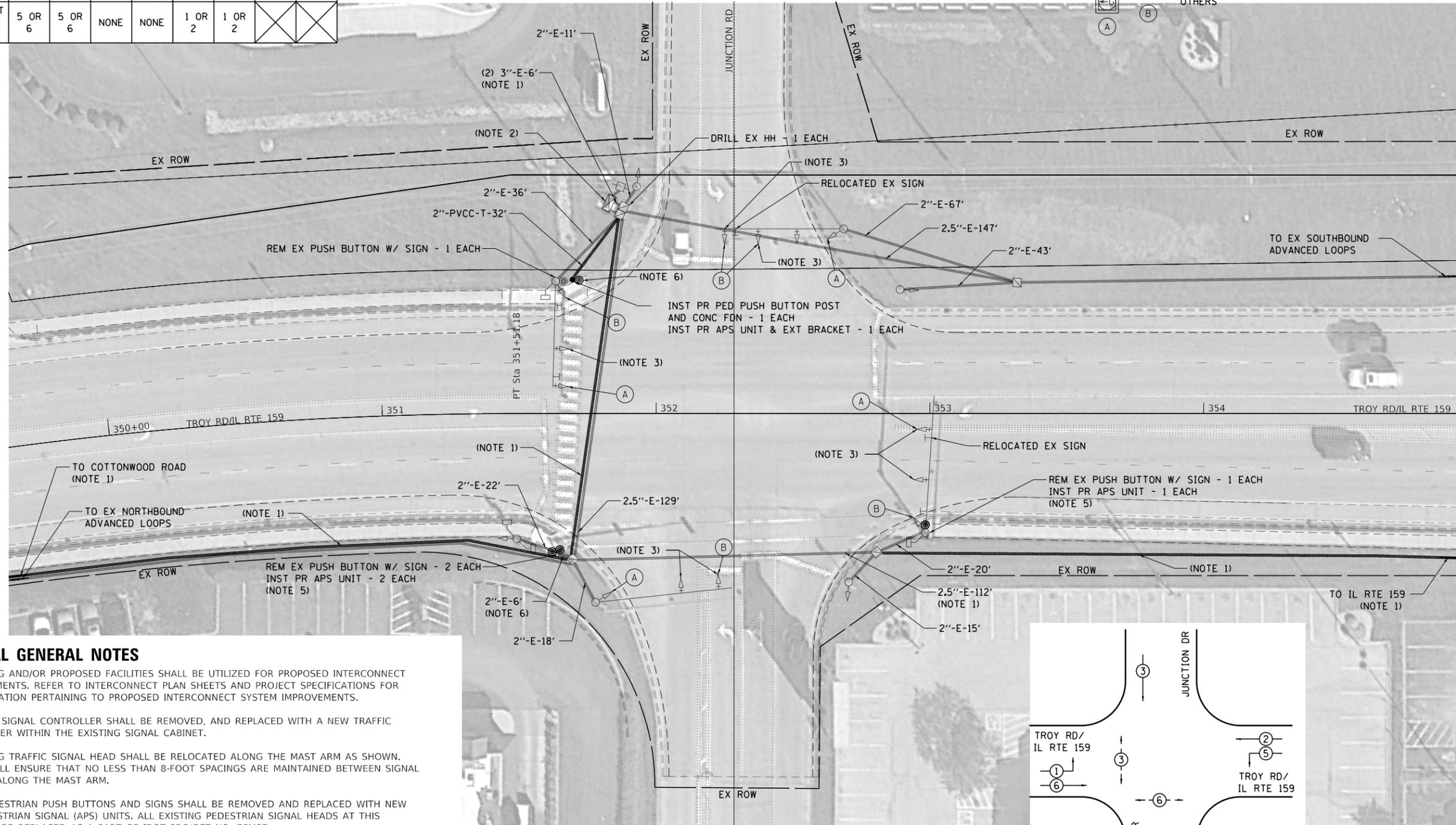
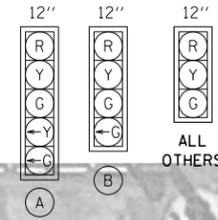
CABLE DIAGRAM	
TROY RD AND COTTONWOOD RD	
SCALE:	SHEET 2 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	20
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

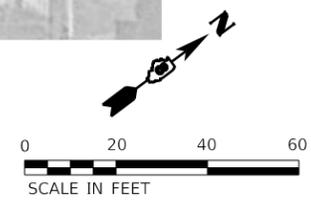
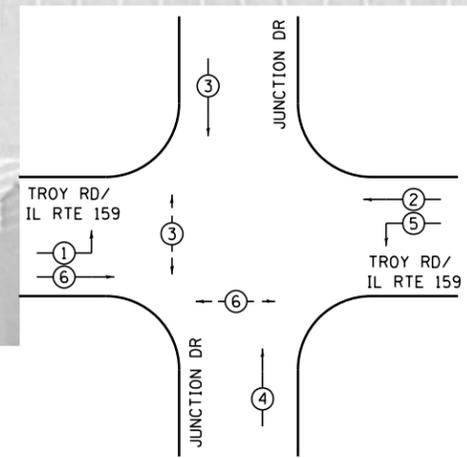
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	WB	EB	SBLT	NB	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2	X	X

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL GENERAL NOTES

- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER WITHIN THE EXISTING SIGNAL CABINET.
- DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.
- ALL EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS SHALL BE REMOVED AND REPLACED WITH NEW ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNITS. ALL EXISTING PEDESTRIAN SIGNAL HEADS AT THIS INTERSECTION TO BE REPLACED AS A PART OF IDOT PROJECT NO. 76M87.
- DENOTED PROPOSED PEDESTRIAN RELATED EQUIPMENT SHOWN IN LOCATION THAT WOULD CORRESPOND TO INTERSECTION IMPROVEMENTS RECENTLY COMPLETED AS A PART OF IDOT PROJECT NO. 76J86.
- DENOTED NEW APS UNIT ASSEMBLY SHALL INCLUDE A 6-INCH OR 12-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\08-sht-Pln-Troy.dgn



USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 03 Signal Sheet 02 Junction	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

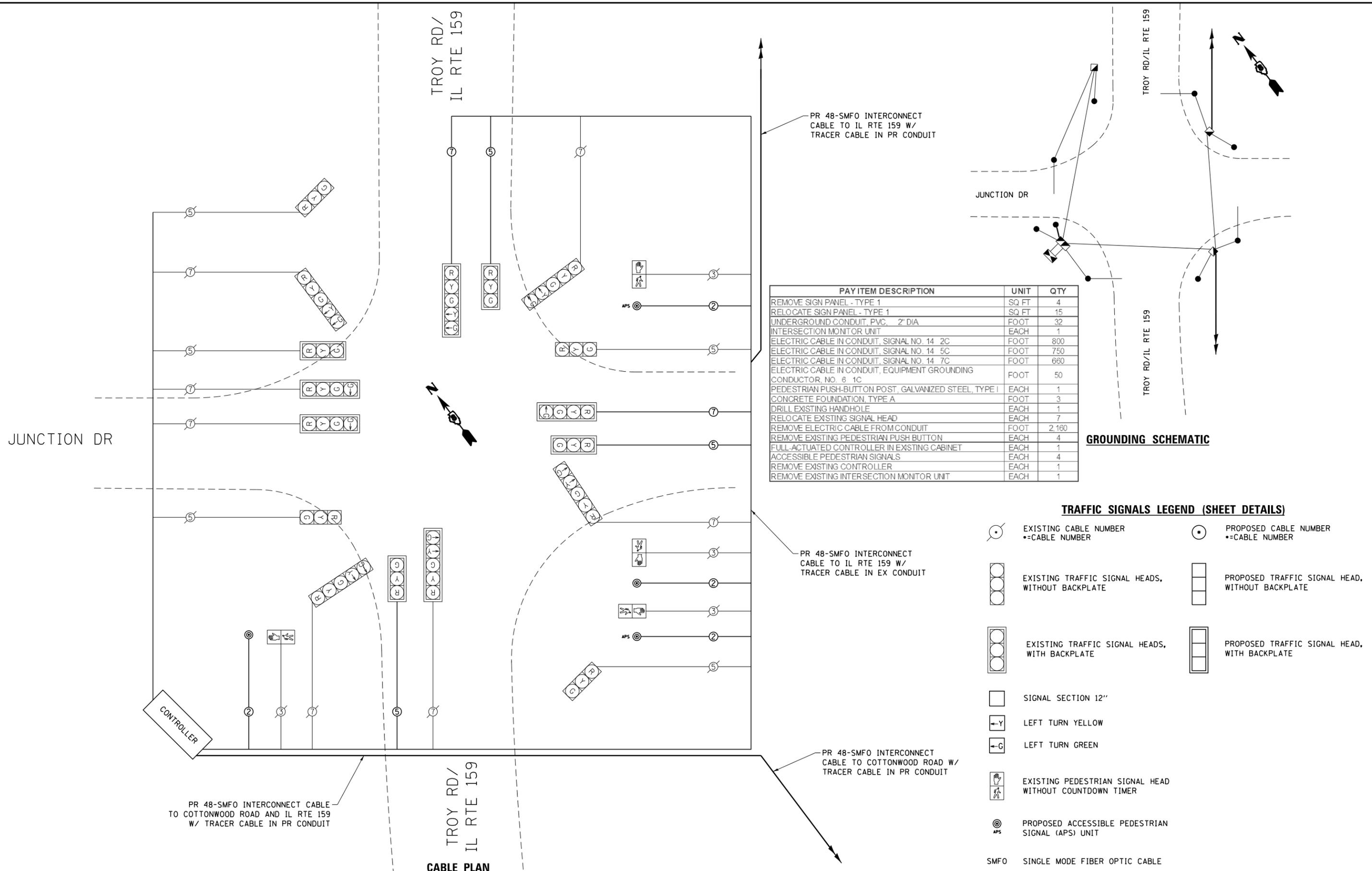
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
TROY RD AND JUNCTION DR**

SCALE: 1:20 SHEET 3 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	21
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd IIS and FVA Design\CADD Sheets\05-sht-Pln-Troy.dgn



PAY ITEM DESCRIPTION	UNIT	QTY
REMOVE SIGN PANEL - TYPE 1	SQ FT	4
RELOCATE SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	32
INTERSECTION MONITOR UNIT	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	800
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	750
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	660
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	50
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
DRILL EXISTING HANDHOLE	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	7
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,160
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
REMOVE EXISTING CONTROLLER	EACH	1
REMOVE EXISTING INTERSECTION MONITOR UNIT	EACH	1

GROUNDING SCHEMATIC

TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

	EXISTING CABLE NUMBER •=CABLE NUMBER		PROPOSED CABLE NUMBER •=CABLE NUMBER
	EXISTING TRAFFIC SIGNAL HEADS, WITHOUT BACKPLATE		PROPOSED TRAFFIC SIGNAL HEAD, WITHOUT BACKPLATE
	EXISTING TRAFFIC SIGNAL HEADS, WITH BACKPLATE		PROPOSED TRAFFIC SIGNAL HEAD, WITH BACKPLATE
	SIGNAL SECTION 12"		
	LEFT TURN YELLOW		
	LEFT TURN GREEN		
	EXISTING PEDESTRIAN SIGNAL HEAD WITHOUT COUNTDOWN TIMER		
	PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT		
	SMFO		SINGLE MODE FIBER OPTIC CABLE

CONTROLLER

PR 48-SMFO INTERCONNECT CABLE TO COTTONWOOD ROAD AND IL RTE 159 W/ TRACER CABLE IN PR CONDUIT

CABLE PLAN
NOT TO SCALE

PR 48-SMFO INTERCONNECT CABLE TO IL RTE 159 W/ TRACER CABLE IN EX CONDUIT

PR 48-SMFO INTERCONNECT CABLE TO COTTONWOOD ROAD W/ TRACER CABLE IN PR CONDUIT



USER NAME = LJackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 04 Cable Diagram 02 Junction	DRAWN = CJW	REVISED = -
PLOT SCALE = 40.0000" / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
TROY RD AND JUNCTION DR

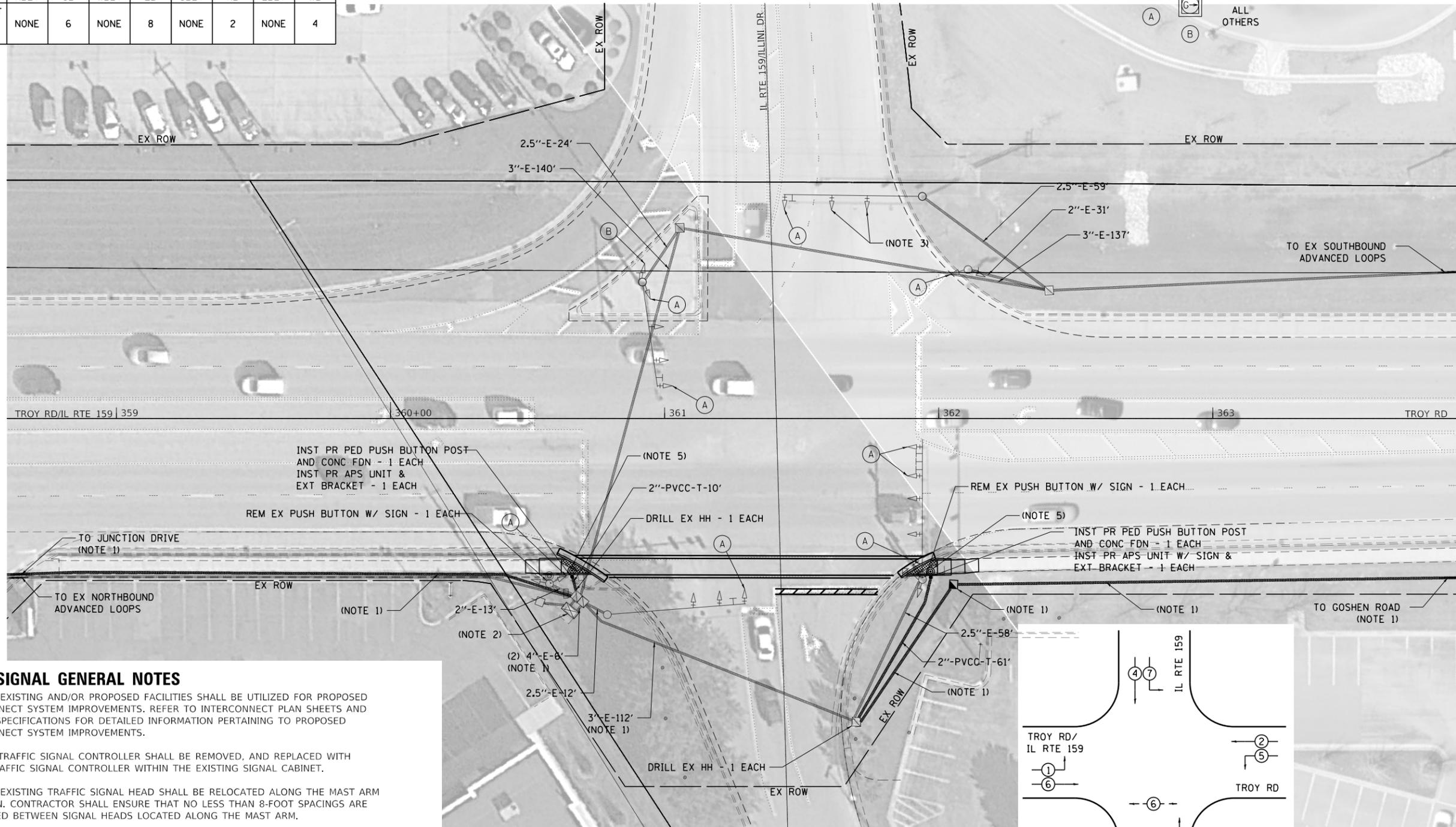
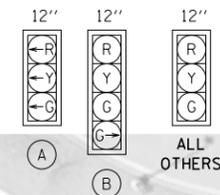
SCALE: 1:20 SHEET 4 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	22
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

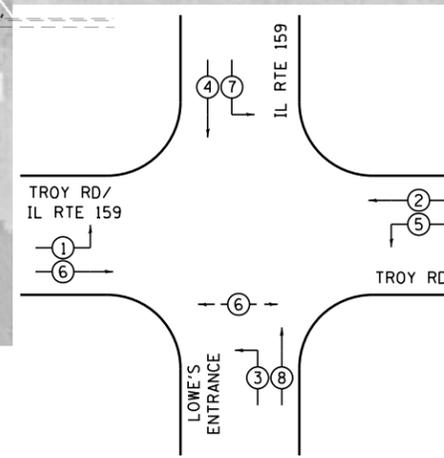
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	WBLT	EB	SBLT	NB	EBLT	WB
CONCURRENT MOVEMENT PERMITTED	NONE	6	NONE	8	NONE	2	NONE	4

TRAFFIC SIGNAL FACES

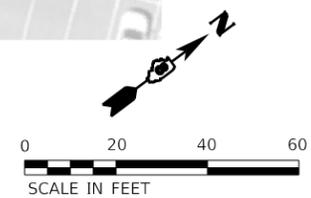


TRAFFIC SIGNAL GENERAL NOTES

- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER WITHIN THE EXISTING SIGNAL CABINET.
- DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.
- ALL EXISTING PEDESTRIAN PUSH BUTTONS AND SIGNS IN THE SHALL BE REMOVED AND REPLACED WITH NEW ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNITS. ALL EXISTING PEDESTRIAN SIGNAL HEADS AT THIS INTERSECTION TO BE REPLACED AS A PART OF IDOT PROJECT NO. 76M87.
- DENOTED NEW PUSH BUTTON ASSEMBLY SHALL INCLUDE A 6-INCH OR 12-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.



PHASE DESIGNATION DIAGRAM



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\08-stt-Pln-Troy.dgn



USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 05 Signal Sheet 03 Il Rte 159 Kettle River	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
TROY RD AND IL RTE 159**

SCALE: 1:20 SHEET 5 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	23
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

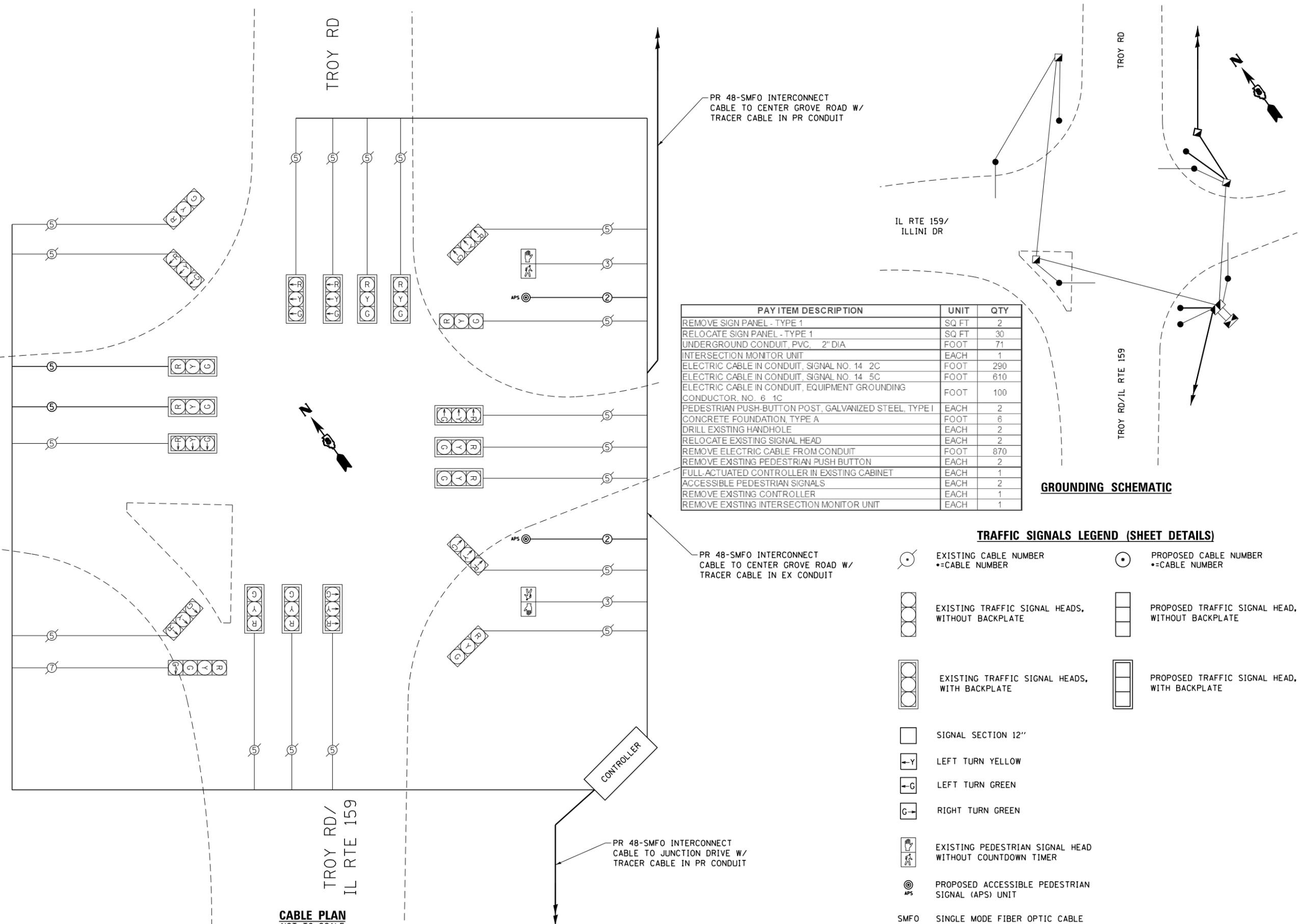
FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\06-sht-Pln-TroyRd

IL RTE 159/
ILLINI DR

TROY RD

TROY RD

TROY RD/IL RTE 159



TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

- EXISTING CABLE NUMBER
•=CABLE NUMBER
- PROPOSED CABLE NUMBER
•=CABLE NUMBER
- EXISTING TRAFFIC SIGNAL HEADS, WITHOUT BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITHOUT BACKPLATE
- EXISTING TRAFFIC SIGNAL HEADS, WITH BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITH BACKPLATE
- SIGNAL SECTION 12"
- LEFT TURN YELLOW
- LEFT TURN GREEN
- RIGHT TURN GREEN
- EXISTING PEDESTRIAN SIGNAL HEAD WITHOUT COUNTDOWN TIMER
- PROPOSED ACCESSIBLE PEDESTRIAN SIGNAL (APS) UNIT
- SMFO SINGLE MODE FIBER OPTIC CABLE

CABLE PLAN
NOT TO SCALE



USER NAME = LJackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 06 Cable Diagram 03 Il Rte 159 Kettle River	DRAWN = CJW	REVISED = -
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
TROY RD AND IL RTE 159

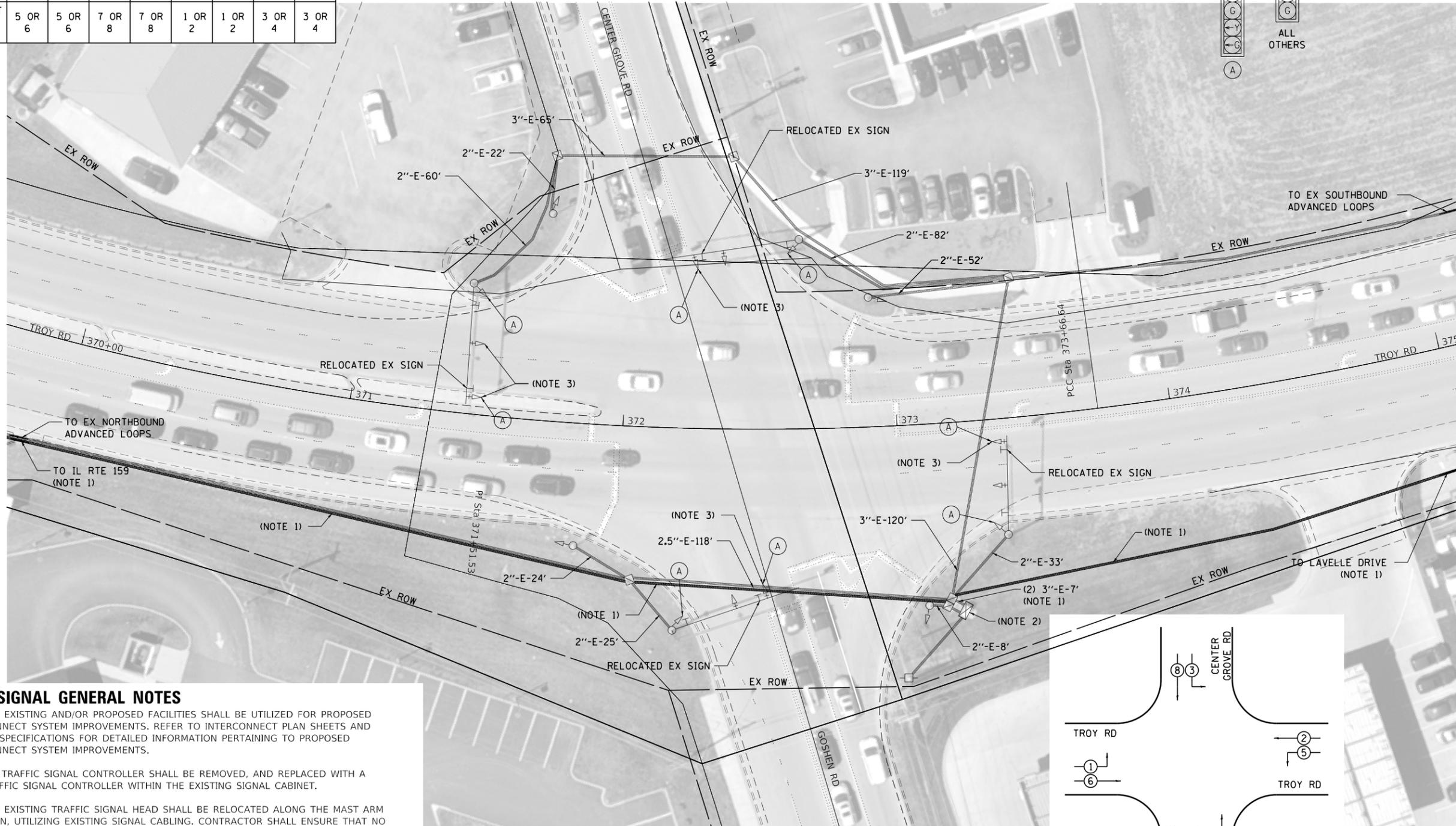
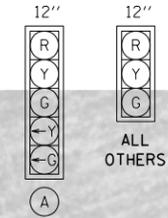
SCALE: 1:20 SHEET 6 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	24
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

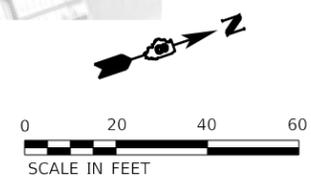
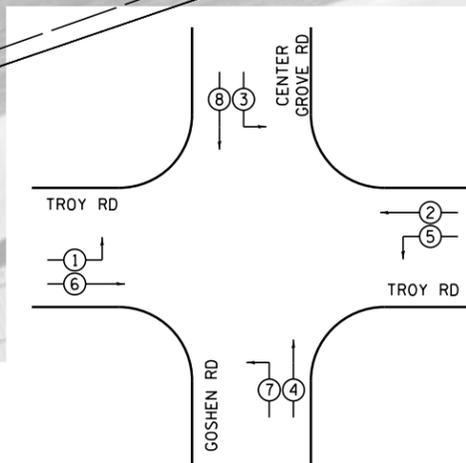
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL GENERAL NOTES

- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER WITHIN THE EXISTING SIGNAL CABINET.
- DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN, UTILIZING EXISTING SIGNAL CABLING. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd, ITS and FVA Design\CADD Sheets\08-stt-Pln-Troy.dgn



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PLOT DATE = 4/11/2022	DATE =	REVISED =

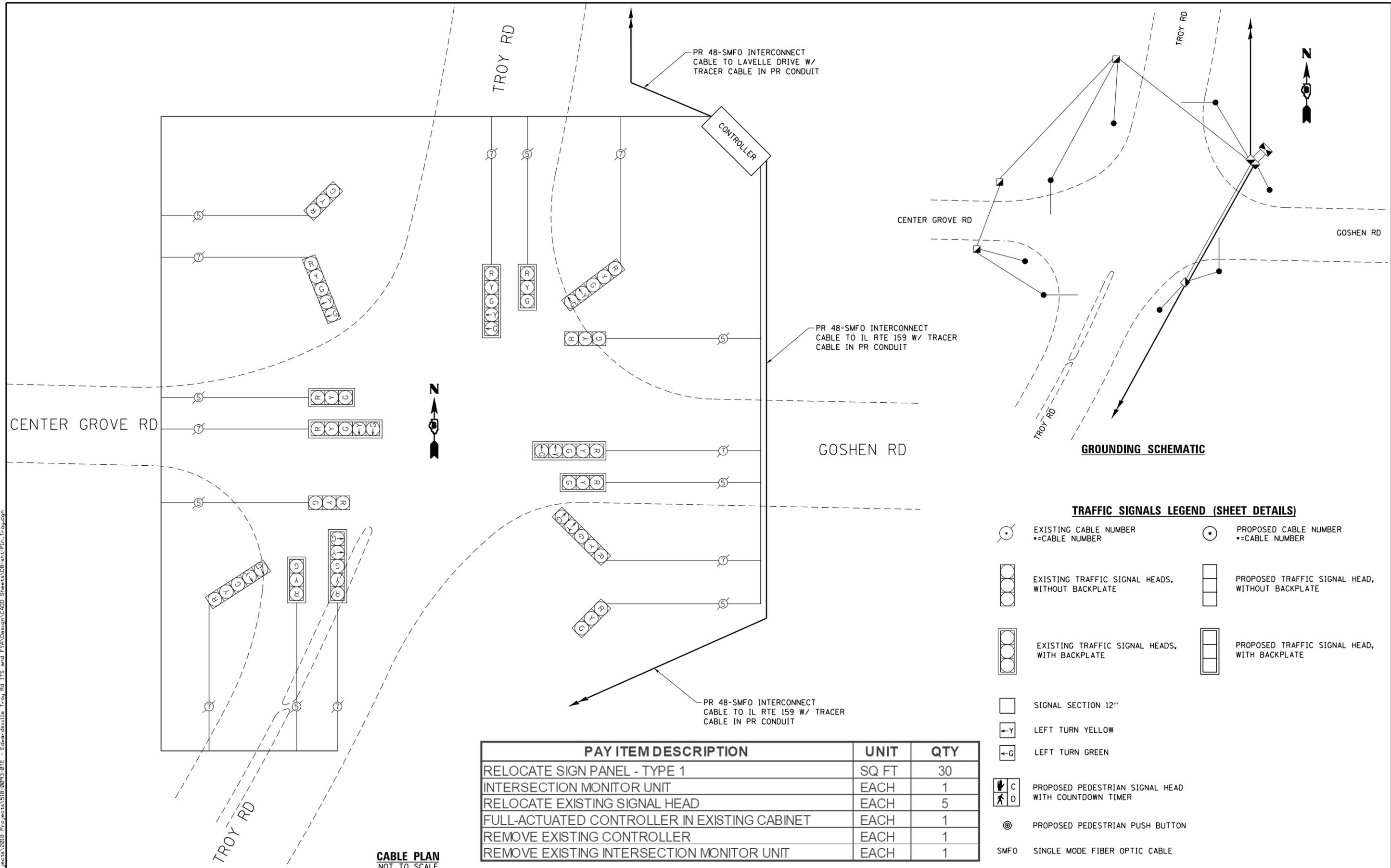
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
TROY RD AND CENTER GROVE RD**

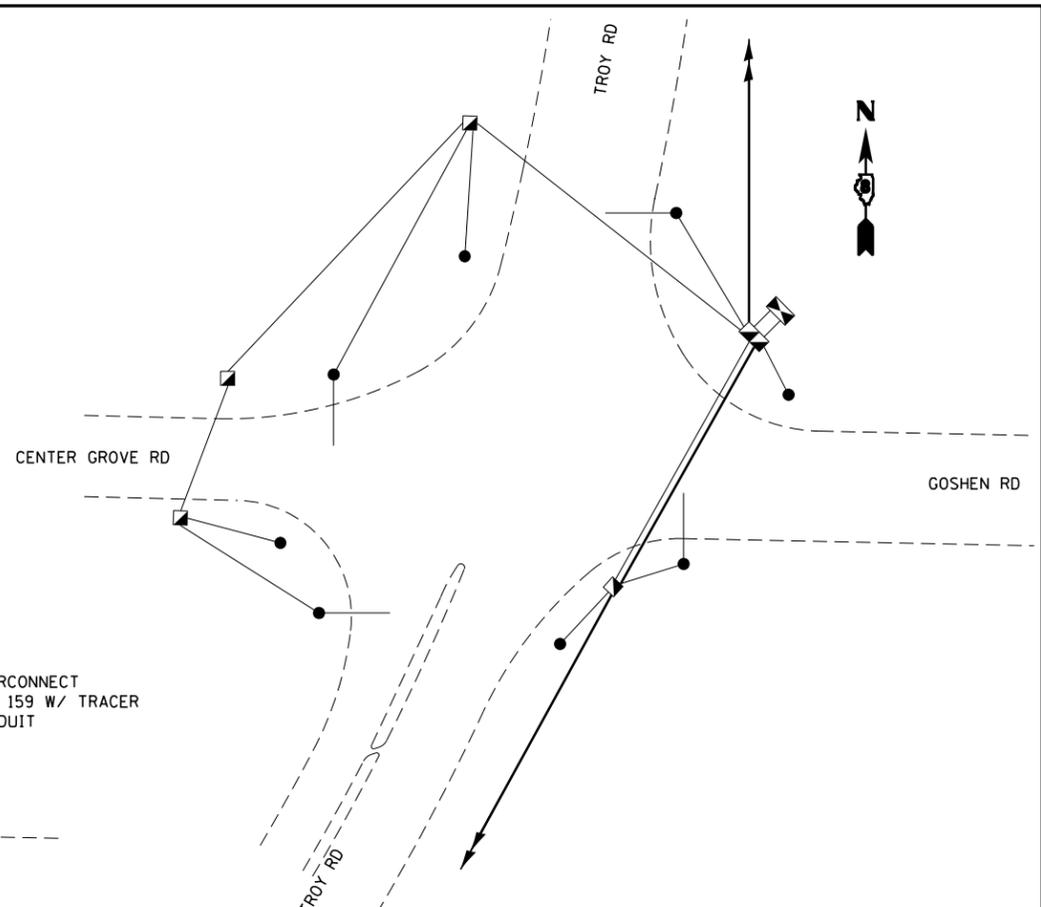
SCALE: 1:20 SHEET 7 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	25
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd IIS and FVA Design\CADD Sheets\08-sht-Pln_Troy.dgn



GROUNDING SCHEMATIC



TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

- ⊙ EXISTING CABLE NUMBER
• CABLE NUMBER
- ⊙ PROPOSED CABLE NUMBER
• CABLE NUMBER
- ⊞ EXISTING TRAFFIC SIGNAL HEADS,
WITHOUT BACKPLATE
- ⊞ PROPOSED TRAFFIC SIGNAL HEAD,
WITHOUT BACKPLATE
- ⊞ EXISTING TRAFFIC SIGNAL HEADS,
WITH BACKPLATE
- ⊞ PROPOSED TRAFFIC SIGNAL HEAD,
WITH BACKPLATE
- SIGNAL SECTION 12"
- ←Y LEFT TURN YELLOW
- ←G LEFT TURN GREEN
- ⊞ C PROPOSED PEDESTRIAN SIGNAL HEAD
WITH COUNTDOWN TIMER
- ⊞ D PROPOSED PEDESTRIAN SIGNAL HEAD
WITH COUNTDOWN TIMER
- ⊙ PROPOSED PEDESTRIAN PUSH BUTTON
- SMFO SINGLE MODE FIBER OPTIC CABLE

PAY ITEM DESCRIPTION	UNIT	QTY
RELOCATE SIGN PANEL - TYPE 1	SQ FT	30
INTERSECTION MONITOR UNIT	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	5
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE EXISTING CONTROLLER	EACH	1
REMOVE EXISTING INTERSECTION MONITOR UNIT	EACH	1

CABLE PLAN
NOT TO SCALE



USER NAME = LJackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 08 Cable Diagram 04 Center Grove Goshen	DRAWN = CJW	REVISED = -
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

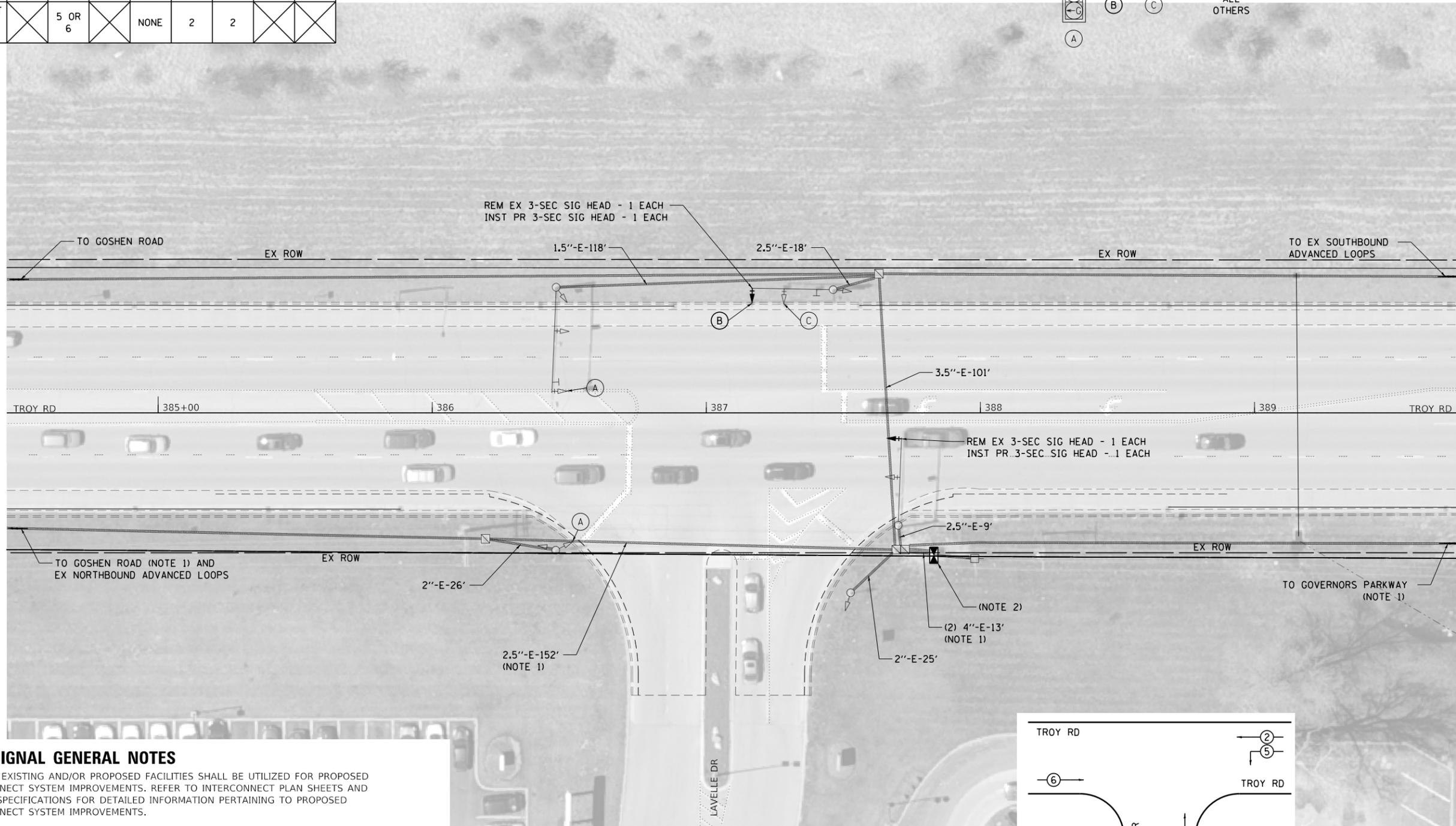
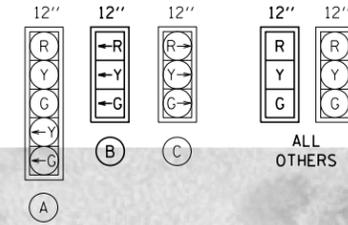
CABLE DIAGRAM	
TROY RD AND CENTER GROVE RD	
SCALE: 1:20	SHEET 8 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	26
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

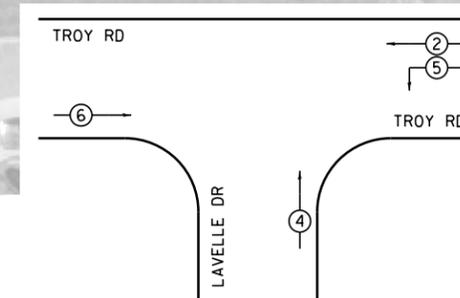
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NOT USED	← SB	NOT USED	← WB	↙ SBLT	→ NB	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED		5 OR 6		NONE	2	2		

TRAFFIC SIGNAL FACES

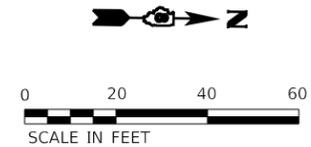


TRAFFIC SIGNAL GENERAL NOTES

- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER AND NEW TYPE IV CABINET ON THE EXISTING CONCRETE FOUNDATION. THE NEW SIGNAL CABINET SHALL BE CAPABLE OF ACCOMMODATING FLASHING YELLOW ARROW OPERATIONS.



PHASE DESIGNATION DIAGRAM



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\05-sht-Pln-Troy.dgn



USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 09 Signal Sheet 05 Lavelle	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

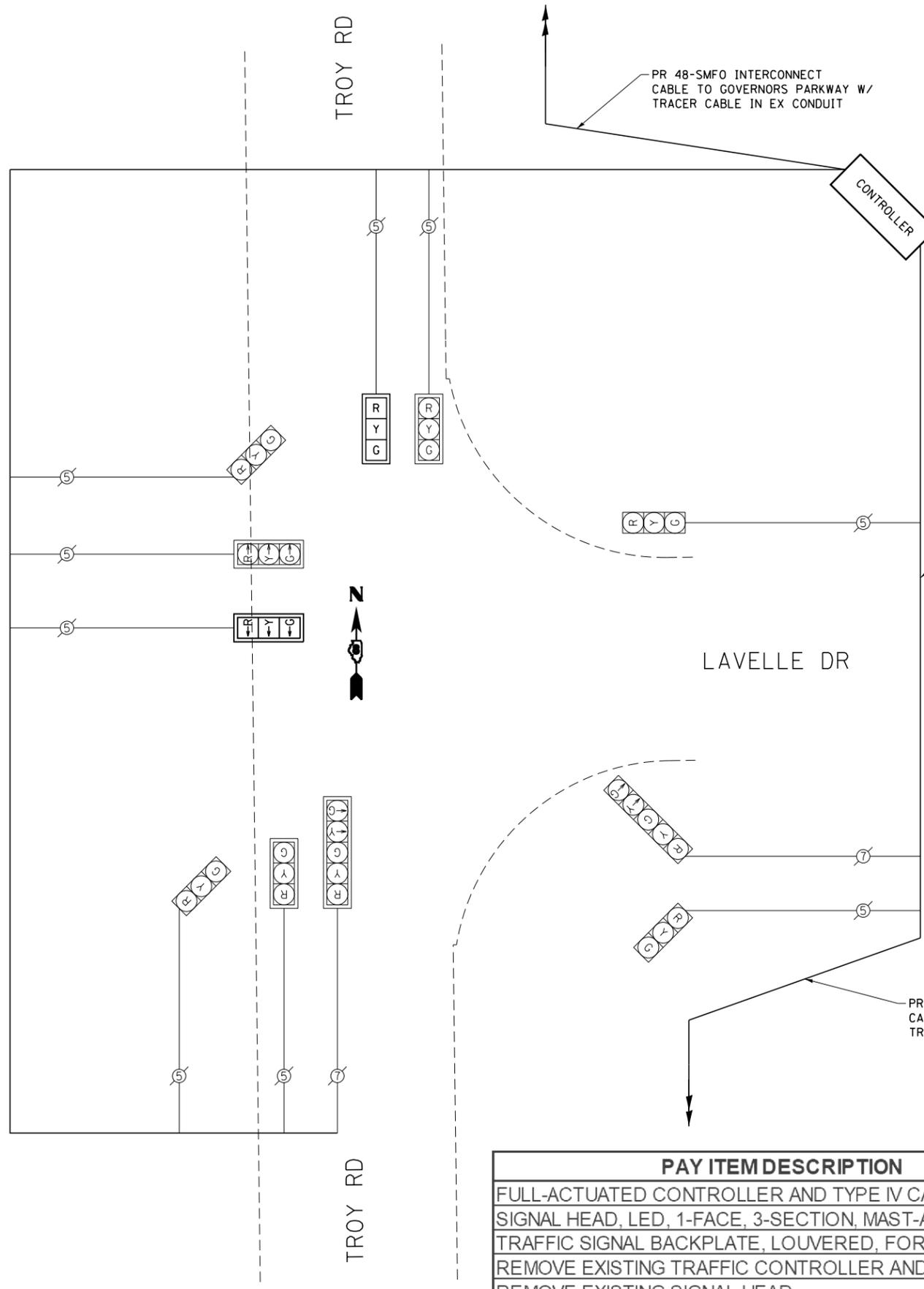
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
TROY RD AND LAVELLE DR**

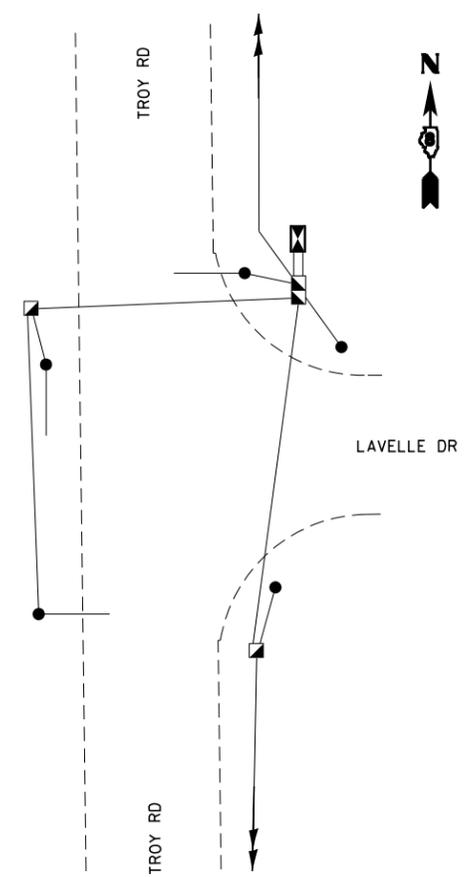
SCALE: 1:20 SHEET 9 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	27
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\05-stt-Pin-Troy.dgn



CABLE PLAN
NOT TO SCALE



GROUNDING SCHEMATIC

TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

- EXISTING CABLE NUMBER
•=CABLE NUMBER
- PROPOSED CABLE NUMBER
•=CABLE NUMBER
- EXISTING TRAFFIC SIGNAL HEADS,
WITHOUT BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD,
WITHOUT BACKPLATE
- EXISTING TRAFFIC SIGNAL HEADS,
WITH BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD,
WITH BACKPLATE
- SIGNAL SECTION 12"
- LEFT TURN YELLOW
- RIGHT TURN GREEN
- LEFT TURN GREEN
- RIGHT TURN GREEN
- PROPOSED PEDESTRIAN SIGNAL HEAD
WITH COUNTDOWN TIMER
- PROPOSED PEDESTRIAN PUSH BUTTON
- SMFO SINGLE MODE FIBER OPTIC CABLE

PAY ITEM DESCRIPTION	UNIT	QTY
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2
REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1
REMOVE EXISTING SIGNAL HEAD	EACH	2



USER NAME = LJackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 10 Cable Diagram 05 Lavelle	DRAWN = CJW	REVISED = -
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
TROY RD AND LAVELLE DR

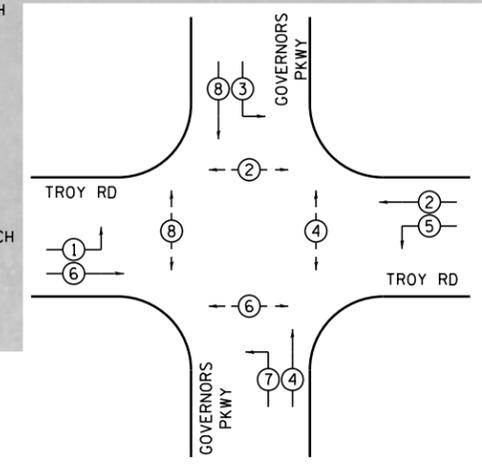
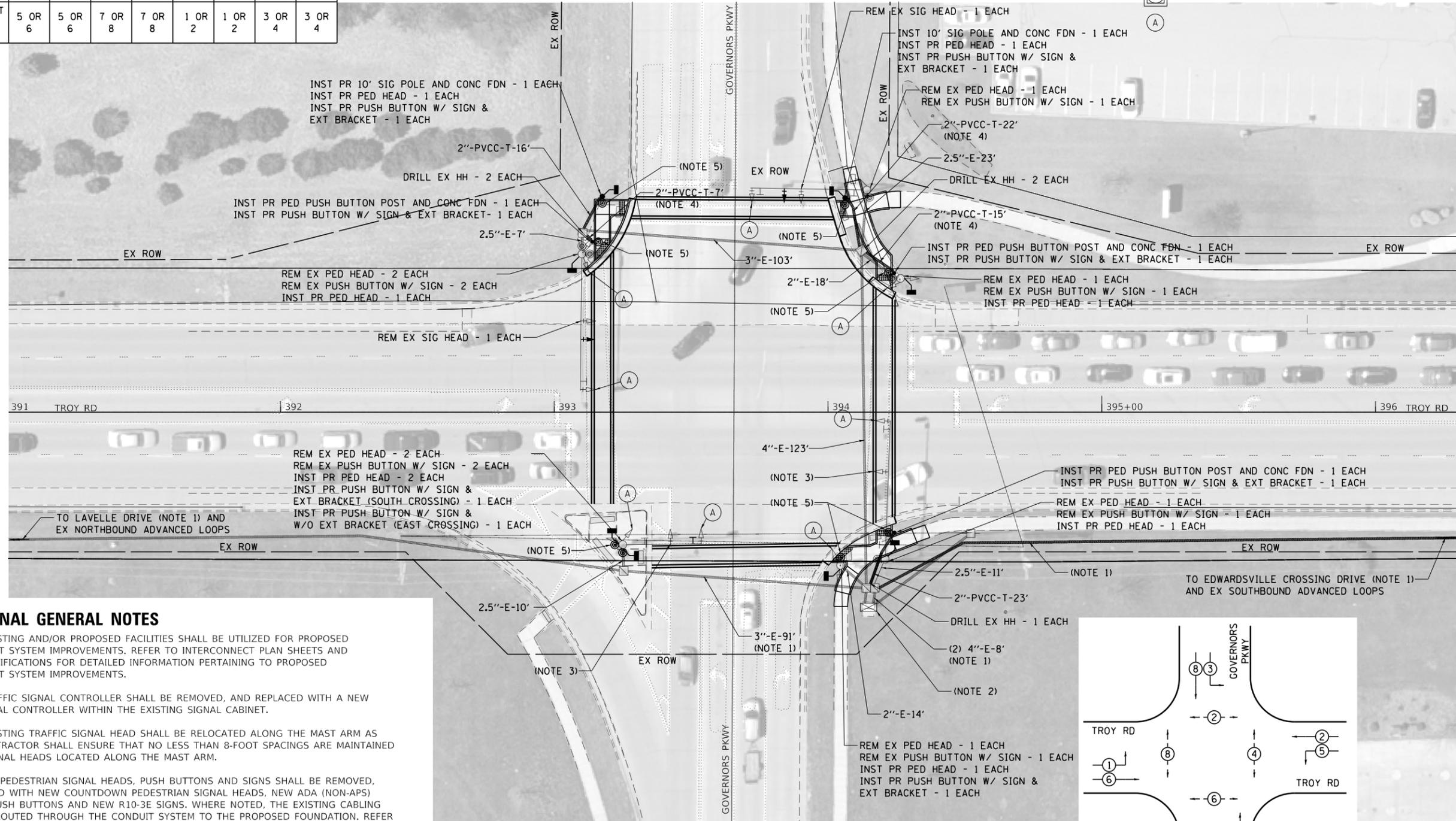
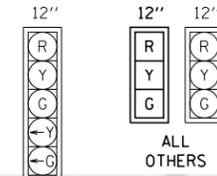
SCALE: 1:20 SHEET 10 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	28
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL GENERAL NOTES

- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER WITHIN THE EXISTING SIGNAL CABINET.
- DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.
- ALL EXISTING PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS SHALL BE REMOVED, AND REPLACED WITH NEW COUNTDOWN PEDESTRIAN SIGNAL HEADS, NEW ADA (NON-APS) COMPLIANT PUSH BUTTONS AND NEW R10-3E SIGNS. WHERE NOTED, THE EXISTING CABLING SHALL BE REROUTED THROUGH THE CONDUIT SYSTEM TO THE PROPOSED FOUNDATION. REFER TO CABLE DIAGRAM FOR FURTHER INFORMATION DETAILING WHERE EXISTING CABLING SHALL BE UTILIZED, AND WHERE NEW CABLING IS TO BE INSTALLED, FOR NEW PEDESTRIAN HEADS AND PUSH BUTTONS.
- DENOTED NEW PUSH BUTTON ASSEMBLY SHALL INCLUDE A 6-INCH OR 12-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\06-sht-Pln-Troy.dgn



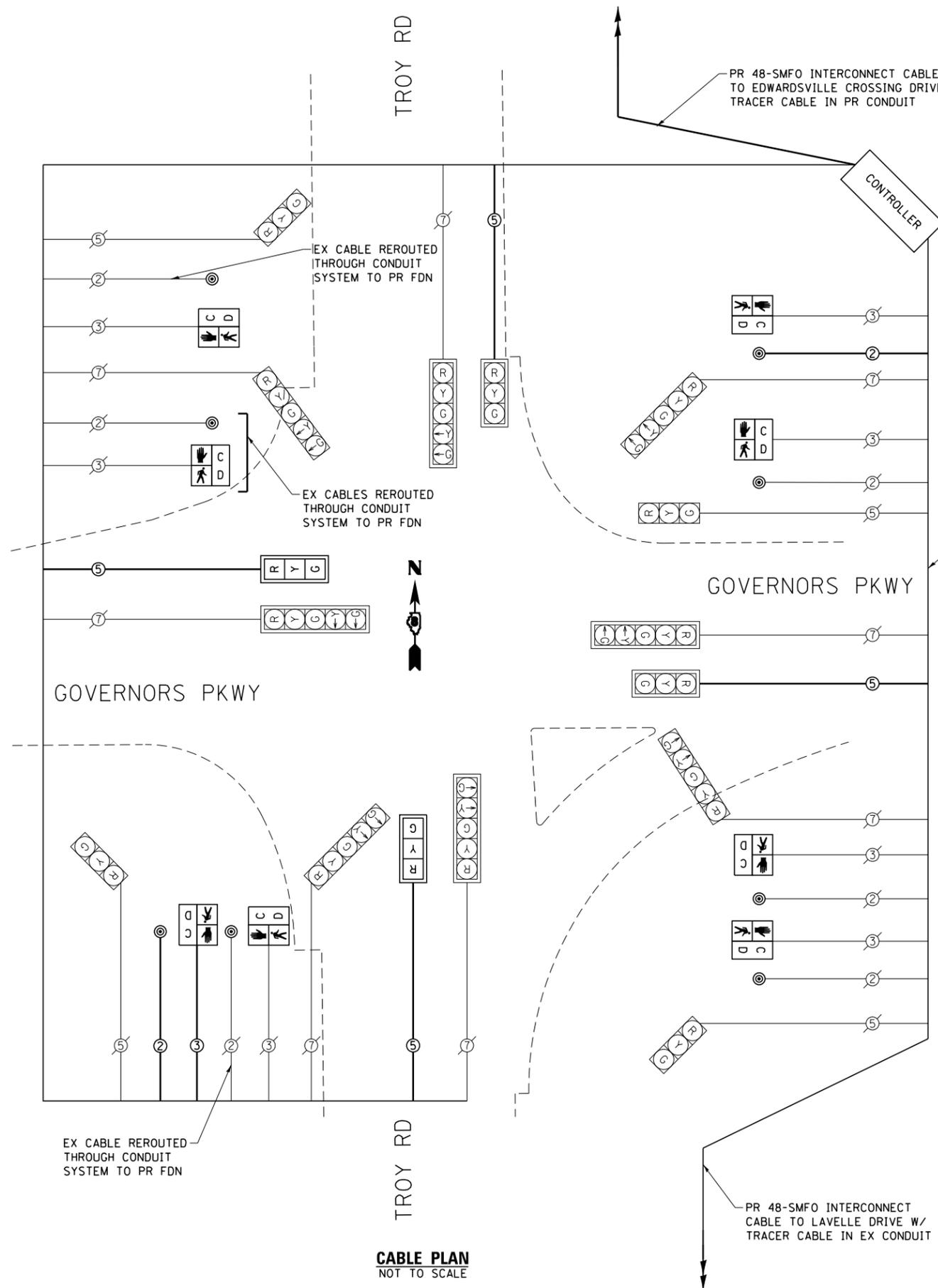
USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 11 Signal Sheet 06 Governors	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

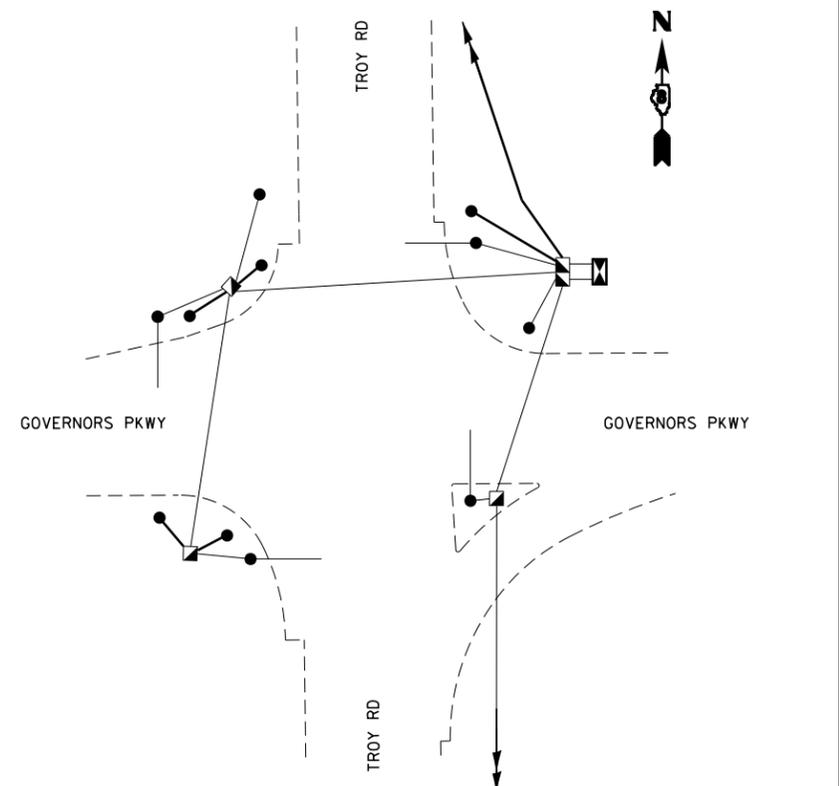
TRAFFIC SIGNAL MODIFICATION PLAN TROY RD AND GOVERNORS PKWY		
SCALE: 1:20	SHEET 11	OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	29
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS		FED. AID PROJECT		

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd, IIS and FVA Design\CADD Sheets\06-sht-Pln_Troy.dgn



PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	8
REMOVE SIGN PANEL - TYPE 1	SQ FT	8
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	83
INTERSECTION MONITOR UNIT	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	390
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	320
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	910
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	150
TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.	EACH	2
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	15
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	8
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,580
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	210
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	8
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE EXISTING CONTROLLER	EACH	1
REMOVE EXISTING INTERSECTION MONITOR UNIT	EACH	1
REMOVE EXISTING SIGNAL HEAD	EACH	2
REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8



TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

	EXISTING CABLE NUMBER •=CABLE NUMBER		PROPOSED CABLE NUMBER •=CABLE NUMBER
	EXISTING TRAFFIC SIGNAL HEADS, WITHOUT BACKPLATE		PROPOSED TRAFFIC SIGNAL HEAD, WITHOUT BACKPLATE
	EXISTING TRAFFIC SIGNAL HEADS, WITH BACKPLATE		PROPOSED TRAFFIC SIGNAL HEAD, WITH BACKPLATE
	SIGNAL SECTION 12"		
	LEFT TURN YELLOW		
	LEFT TURN GREEN		
	PROPOSED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
	PROPOSED PEDESTRIAN PUSH BUTTON		
	SMFO SINGLE MODE FIBER OPTIC CABLE		



USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 12 Cable Diagram 06 Governors	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000" / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

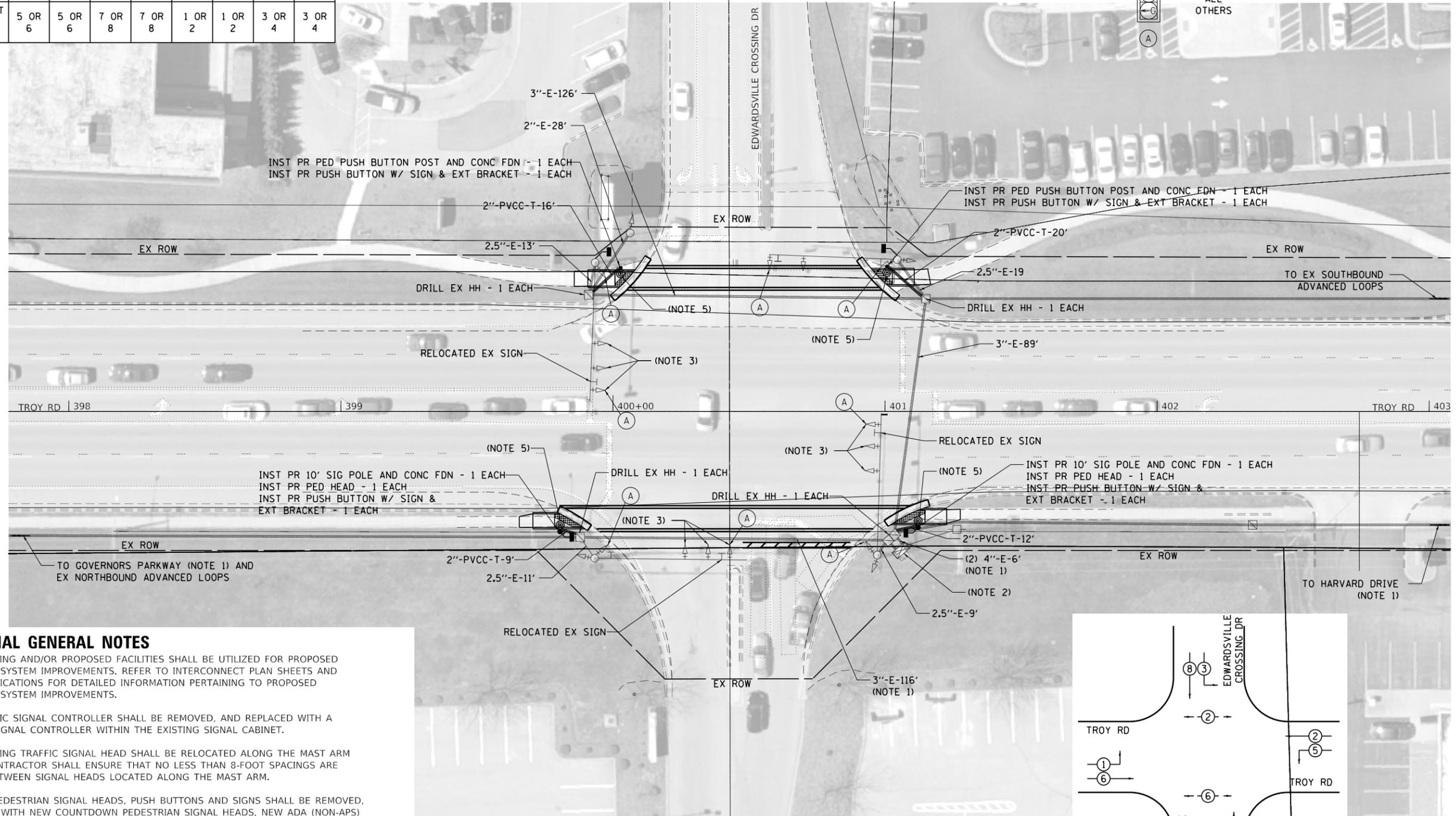
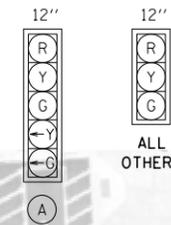
CABLE DIAGRAM TROY RD AND GOVERNORS PKWY	
SCALE: 1:20	SHEET 12 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	30
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

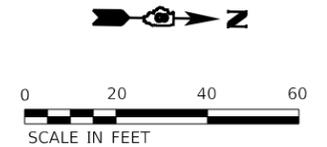
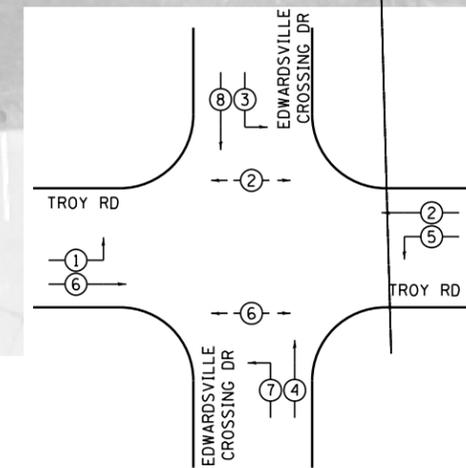
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL GENERAL NOTES

1. DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
2. EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER WITHIN THE EXISTING SIGNAL CABINET.
3. DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.
4. ALL EXISTING PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS SHALL BE REMOVED, AND REPLACED WITH NEW COUNTDOWN PEDESTRIAN SIGNAL HEADS, NEW ADA (NON-APS) COMPLIANT PUSH BUTTONS AND NEW R10-3E SIGNS.
5. DENOTED NEW PUSH BUTTON ASSEMBLY SHALL INCLUDE A 6-INCH OR 12-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.



USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 13 Signal Sheet 07 Edwardsville Crossing	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

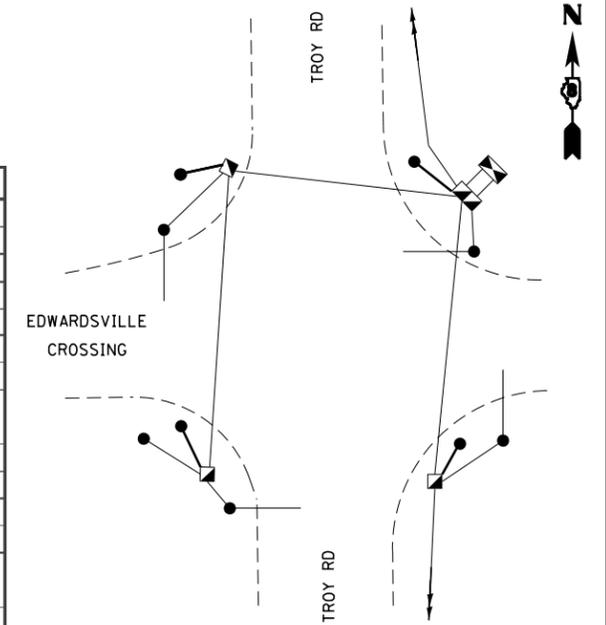
**TRAFFIC SIGNAL MODIFICATION PLAN
TROY RD AND EDWARDSVILLE CROSSING DR**

SCALE: 1:20 SHEET 13 OF 18 SHEETS

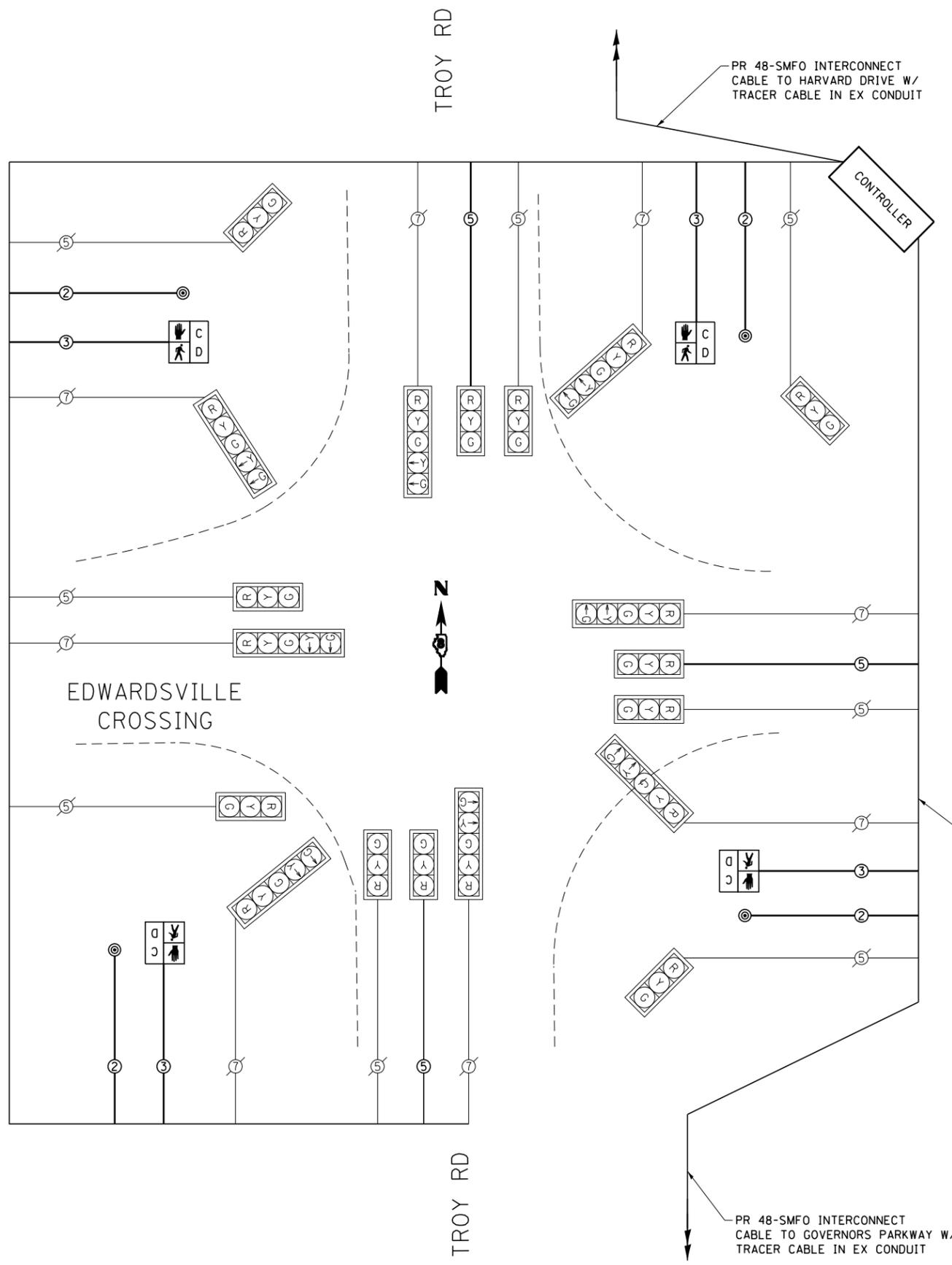
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	31
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville Troy Rd ITS and FVA Design\CADD Sheets\08-st-Pln-Troy.dgn

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	4
RELOCATE SIGN PANEL - TYPE 1	SQ FT	22.5
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	57
INTERSECTION MONITOR UNIT	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	710
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	720
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	720
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	110
TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.	EACH	2
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	12
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATE EXISTING SIGNAL HEAD	EACH	9
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,090
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE EXISTING CONTROLLER	EACH	1
REMOVE EXISTING INTERSECTION MONITOR UNIT	EACH	1



GROUNDING SCHEMATIC



CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

- EXISTING CABLE NUMBER
•=CABLE NUMBER
- PROPOSED CABLE NUMBER
•=CABLE NUMBER
- EXISTING TRAFFIC SIGNAL HEADS, WITHOUT BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITHOUT BACKPLATE
- EXISTING TRAFFIC SIGNAL HEADS, WITH BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITH BACKPLATE
- SIGNAL SECTION 12"
- LEFT TURN YELLOW
- LEFT TURN GREEN
- PROPOSED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER
- PROPOSED PEDESTRIAN PUSH BUTTON
- SMFO SINGLE MODE FIBER OPTIC CABLE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\08-sht-Pln-Troy.dgn



USER NAME = LJackson	DESIGNED NMN	REVISED -
MODEL NAME = 14 Cable Diagram 07 Edwardsville Crossing	DRAWN CJW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED TWK	REVISED -
PLOT DATE = 4/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

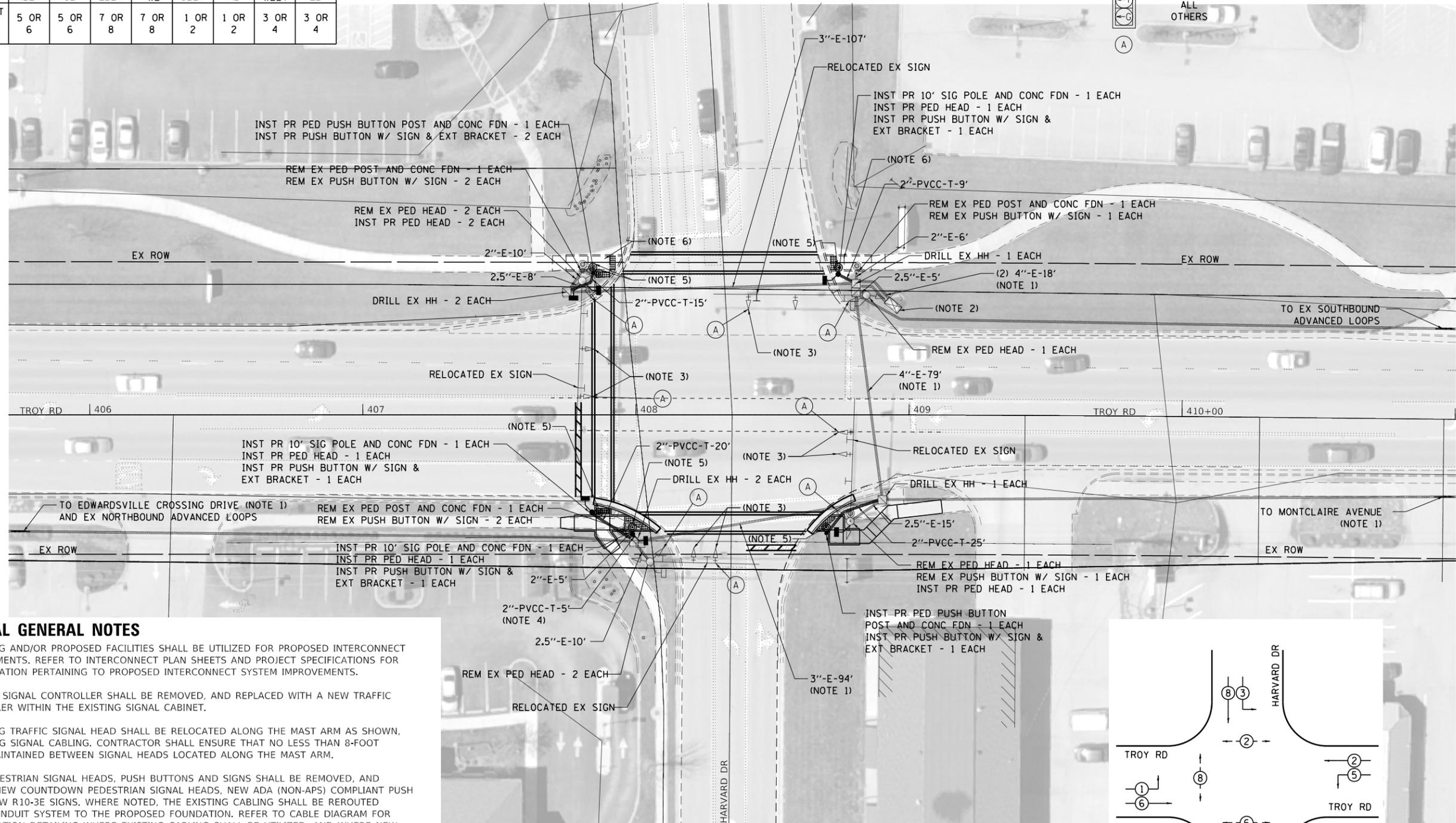
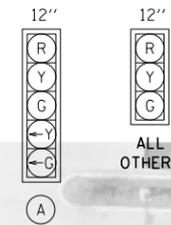
CABLE DIAGRAM	
TROY RD AND EDWARDSVILLE CROSSING DR	
SCALE: 1:20	SHEET 14 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

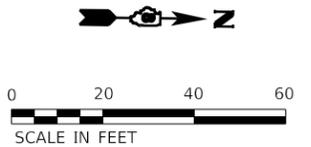
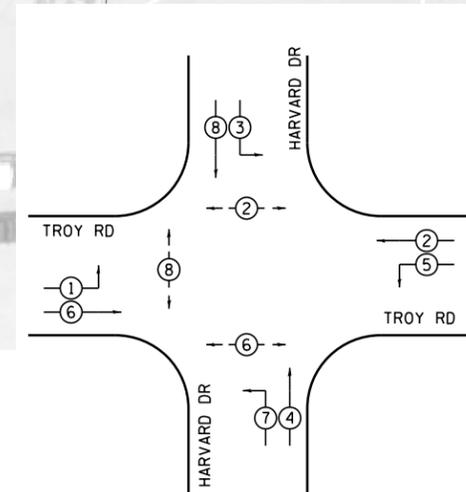
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL GENERAL NOTES

- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE REMOVED, AND REPLACED WITH A NEW TRAFFIC SIGNAL CONTROLLER WITHIN THE EXISTING SIGNAL CABINET.
- DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN, UTILIZING EXISTING SIGNAL CABLING. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.
- ALL EXISTING PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS SHALL BE REMOVED, AND REPLACED WITH NEW COUNTDOWN PEDESTRIAN SIGNAL HEADS, NEW ADA (NON-APS) COMPLIANT PUSH BUTTONS AND NEW R10-3E SIGNS, WHERE NOTED, THE EXISTING CABLING SHALL BE REROUTED THROUGH THE CONDUIT SYSTEM TO THE PROPOSED FOUNDATION. REFER TO CABLE DIAGRAM FOR FURTHER INFORMATION DETAILING WHERE EXISTING CABLING SHALL BE UTILIZED, AND WHERE NEW CABLING IS TO BE INSTALLED, FOR NEW PEDESTRIAN HEADS AND PUSH BUTTONS.
- DENOTED NEW PUSH BUTTON ASSEMBLY SHALL INCLUDE A 6-INCH OR 12-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.
- CURB RAMPS IN NORTHWEST AND SOUTHWEST QUADRANTS TO BE RECONSTRUCTED BY THE CITY OF EDWARDSVILLE PRIOR TO PROJECT LETTING.



PHASE DESIGNATION DIAGRAM

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\08-sht-Pln.Troy.dgn



USER NAME = LJackson
 MODEL NAME = 15 Signal Sheet 08 Harvard
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 4/11/2022

DESIGNED NMN
 DRAWN CJW
 CHECKED TWK
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

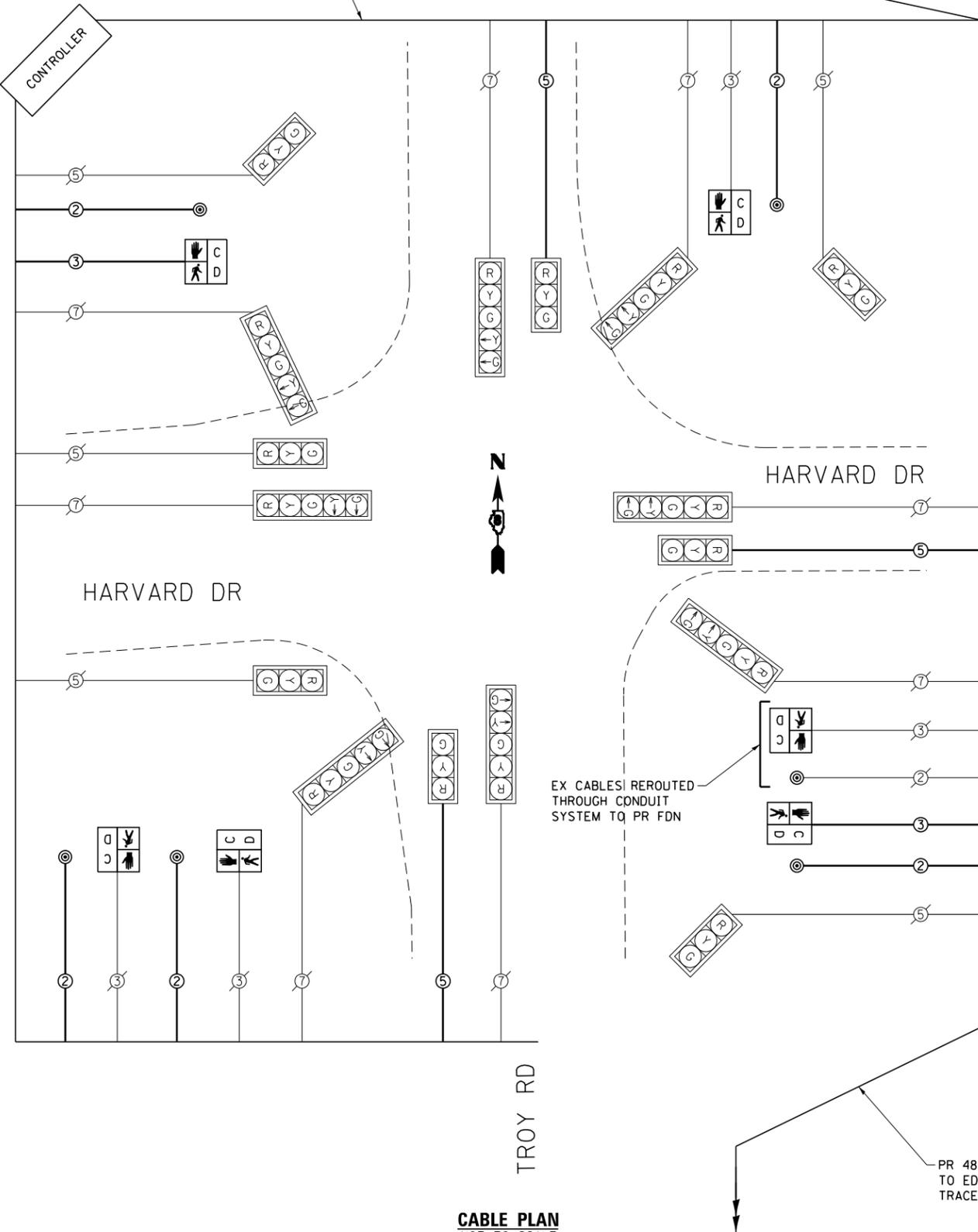
**TRAFFIC SIGNAL MODIFICATION PLAN
 TROY RD AND HARVARD DR**

SCALE: 1:20 SHEET 15 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS		FED. AID PROJECT		

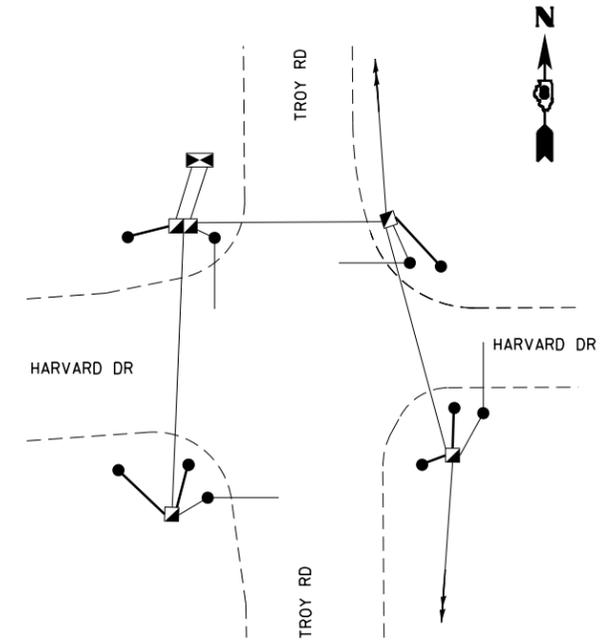
PR 48-S.M.F.O. INTERCONNECT CABLE TO EDWARDSVILLE CROSSING DRIVE AND MONTCLAIRE AVENUE W/ TRACER CABLE IN EX CONDUIT

PR 48-SMFO INTERCONNECT CABLE TO MONTCLAIRE AVENUE W/ TRACER CABLE IN EX CONDUIT



CABLE PLAN
NOT TO SCALE

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	5
REMOVE SIGN PANEL - TYPE 1	SQ FT	5
RELOCATE SIGN PANEL - TYPE 1	SQ FT	30
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	69
INTERSECTION MONITOR UNIT	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	890
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	350
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	730
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	140
TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.	EACH	3
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	1
PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	15
DRILL EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
PEDESTRIAN PUSH-BUTTON	EACH	6
RELOCATE EXISTING SIGNAL HEAD	EACH	7
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,930
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	90
REMOVE EXISTING CONCRETE FOUNDATION	EACH	3
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	6
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
REMOVE EXISTING CONTROLLER	EACH	1
REMOVE EXISTING INTERSECTION MONITOR UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL POST	EACH	3
REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	6



GROUNDING SCHEMATIC

TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

-  EXISTING CABLE NUMBER
•=CABLE NUMBER
-  PROPOSED CABLE NUMBER
•=CABLE NUMBER
-  EXISTING TRAFFIC SIGNAL HEADS, WITHOUT BACKPLATE
-  PROPOSED TRAFFIC SIGNAL HEAD, WITHOUT BACKPLATE
-  EXISTING TRAFFIC SIGNAL HEADS, WITH BACKPLATE
-  PROPOSED TRAFFIC SIGNAL HEAD, WITH BACKPLATE
-  SIGNAL SECTION 12"
-  LEFT TURN YELLOW
-  LEFT TURN GREEN
-  PROPOSED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER
-  PROPOSED PEDESTRIAN PUSH BUTTON
-  SMFO SINGLE MODE FIBER OPTIC CABLE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\08-sht-Pln-Troy.dgn



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MODEL NAME = 16 Cable Diagram 08 Harvard	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM
TROY RD AND HARVARD DR

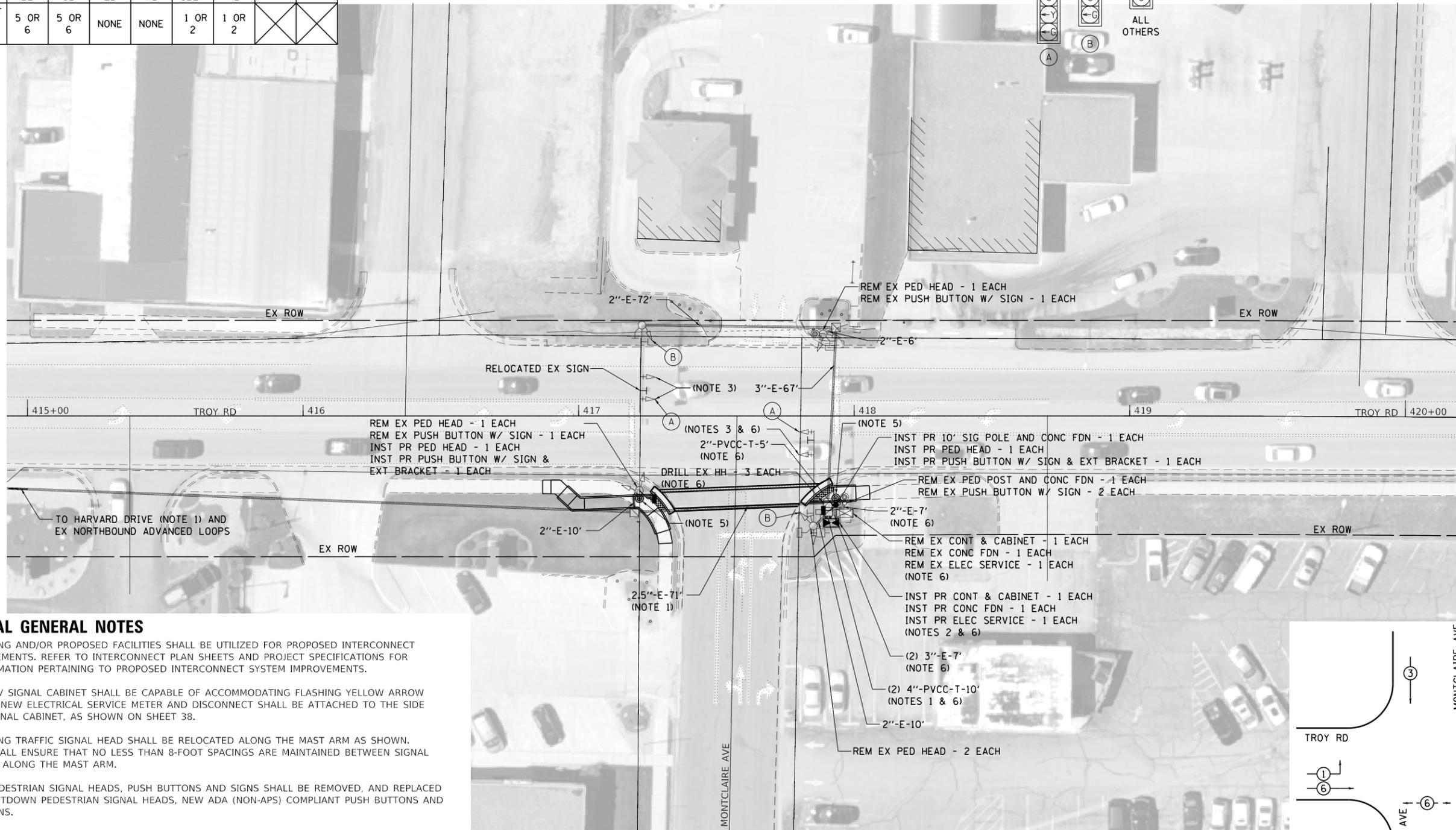
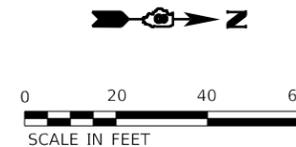
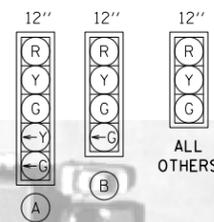
SCALE: 1:20 SHEET 16 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	34
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

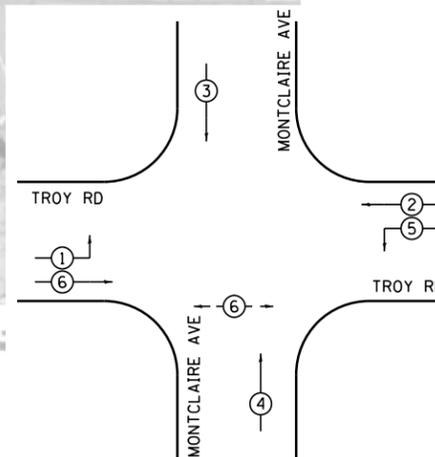
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	NBLT	SB	EB	WB	SBLT	NB	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2	X	X

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL GENERAL NOTES

- DENOTED EXISTING AND/OR PROPOSED FACILITIES SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. REFER TO INTERCONNECT PLAN SHEETS AND PROJECT SPECIFICATIONS FOR DETAILED INFORMATION PERTAINING TO PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
- THE NEW TYPE IV SIGNAL CABINET SHALL BE CAPABLE OF ACCOMMODATING FLASHING YELLOW ARROW OPERATIONS. A NEW ELECTRICAL SERVICE METER AND DISCONNECT SHALL BE ATTACHED TO THE SIDE OF THE NEW SIGNAL CABINET, AS SHOWN ON SHEET 38.
- DENOTED EXISTING TRAFFIC SIGNAL HEAD SHALL BE RELOCATED ALONG THE MAST ARM AS SHOWN. CONTRACTOR SHALL ENSURE THAT NO LESS THAN 8-FOOT SPACINGS ARE MAINTAINED BETWEEN SIGNAL HEADS LOCATED ALONG THE MAST ARM.
- ALL EXISTING PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS SHALL BE REMOVED, AND REPLACED WITH NEW COUNTDOWN PEDESTRIAN SIGNAL HEADS, NEW ADA (NON-APS) COMPLIANT PUSH BUTTONS AND NEW R10-3E SIGNS.
- DENOTED NEW PUSH BUTTON ASSEMBLY SHALL INCLUDE A 6-INCH OR 12-INCH EXTENSION BRACKET, TO ENSURE THE NEW PUSH BUTTON IS LOCATED WITHIN A 10-INCH UNOBSTRUCTED SIDE-REACH OF A LEVEL LANDING AREA.
- WITH THE EXCEPTION OF SIGNAL CABLING TO BE USED FOR THE RELOCATED NORTHBOUND 3-SECTION SIGNAL HEAD, ALL EXISTING SIGNAL SYSTEM RELATED CABLING SHALL BE DISCONNECTED FROM WITHIN THE EXISTING SIGNAL CABINET, PULLED BACK INTO THE DOUBLE HANDHOLE, REROUTED THROUGH THE CONDUIT SYSTEM TO THE PROPOSED SIGNAL CONTROLLER CABINET AND FOUNDATION, AND THEN RECONNECTED WITHIN THE NEW CABINET. NEW SIGNAL CABLING SHALL BE PROVIDED TO POWER THE RELOCATED NORTHBOUND 3-SECTION SIGNAL HEAD.



PHASE DESIGNATION DIAGRAM

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\08-sht-Pln_Troy.dgn



USER NAME = lJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 17 Signal Sheet 09 Montclair	DRAWN = CJW	REVISED =
PLOT SCALE = 40.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

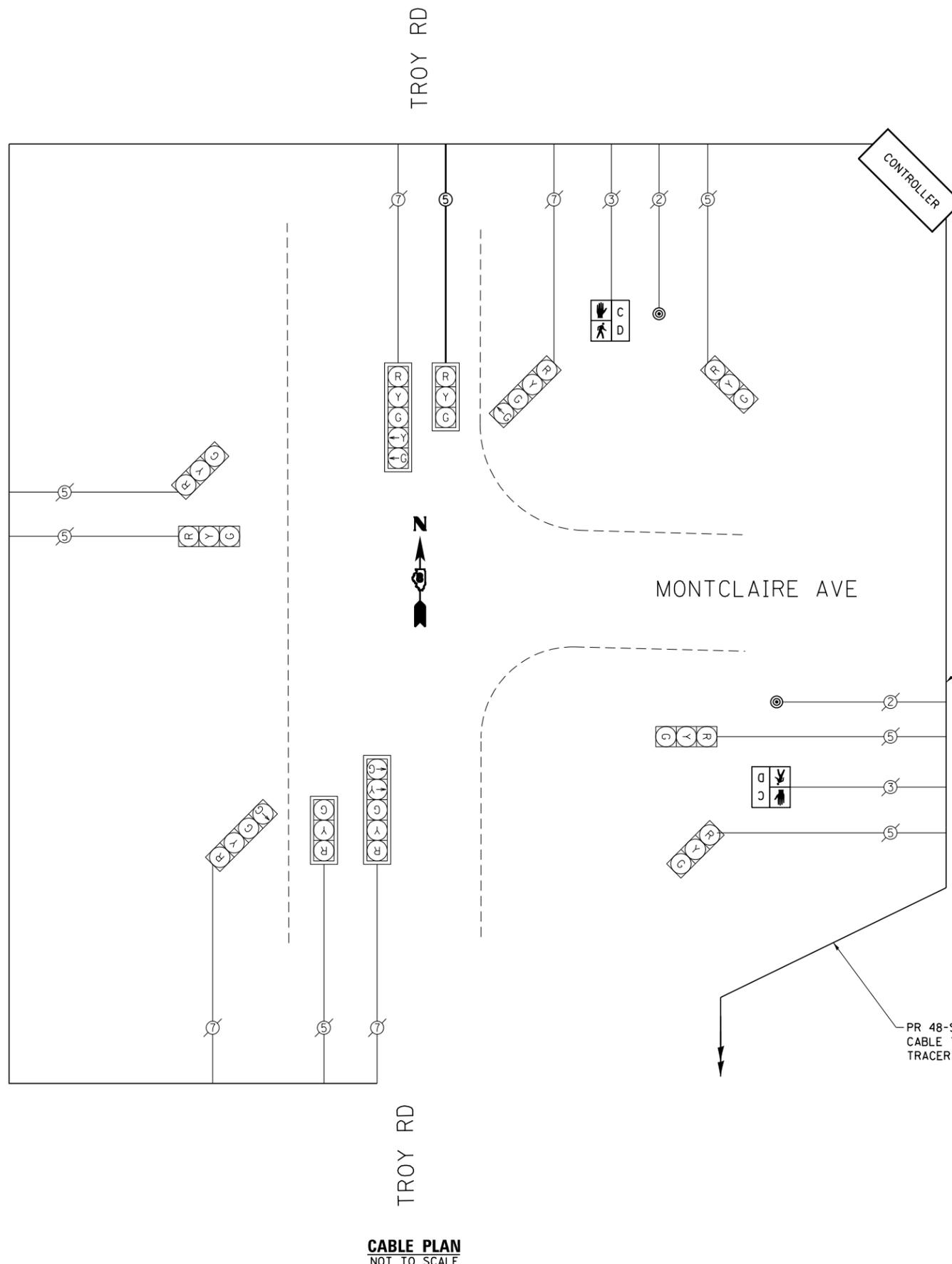
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
TROY RD AND MONTCLAIRE AVE**

SCALE: 1:20 SHEET 17 OF 18 SHEETS

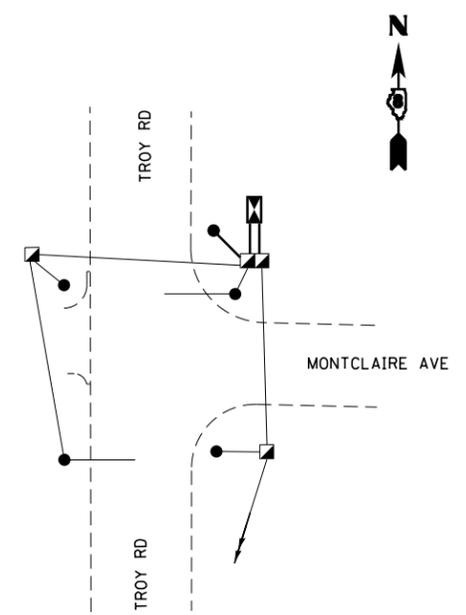
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	35
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\08-stt-Pln-Troy.rvt



CABLE PLAN
NOT TO SCALE

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 1	SQ FT	2
REMOVE SIGN PANEL - TYPE 1	SQ FT	4
RELOCATE SIGN PANEL - TYPE 1	SQ FT	7.5
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	5
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	20
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	100
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
TRAFFIC SIGNAL POST, PAINTED STEEL 10 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	3
CONCRETE FOUNDATION, TYPE D	FOOT	3
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING SIGNAL HEAD	EACH	3
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	95
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	720
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4
ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC CONTROLLER AND CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4



GROUNDING SCHEMATIC

TRAFFIC SIGNALS LEGEND (SHEET DETAILS)

- EXISTING CABLE NUMBER
•=CABLE NUMBER
- PROPOSED CABLE NUMBER
•=CABLE NUMBER
- EXISTING TRAFFIC SIGNAL HEADS, WITHOUT BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITHOUT BACKPLATE
- EXISTING TRAFFIC SIGNAL HEADS, WITH BACKPLATE
- PROPOSED TRAFFIC SIGNAL HEAD, WITH BACKPLATE
- SIGNAL SECTION 12"
- LEFT TURN YELLOW
- LEFT TURN GREEN
- PROPOSED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER
- PROPOSED PEDESTRIAN PUSH BUTTON
- SMFO SINGLE MODE FIBER OPTIC CABLE

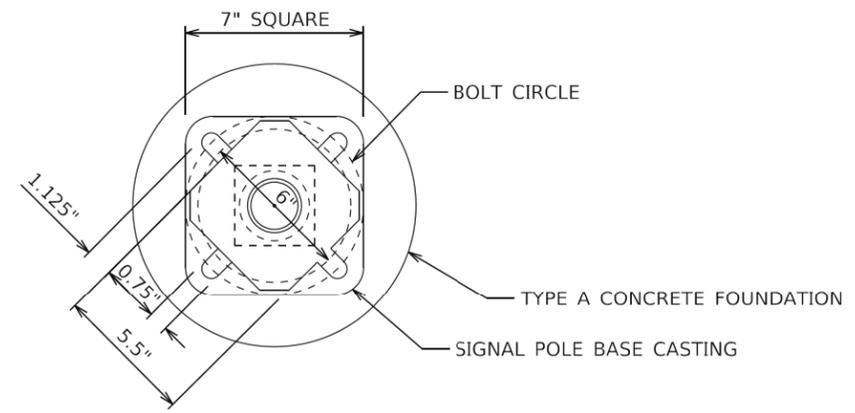
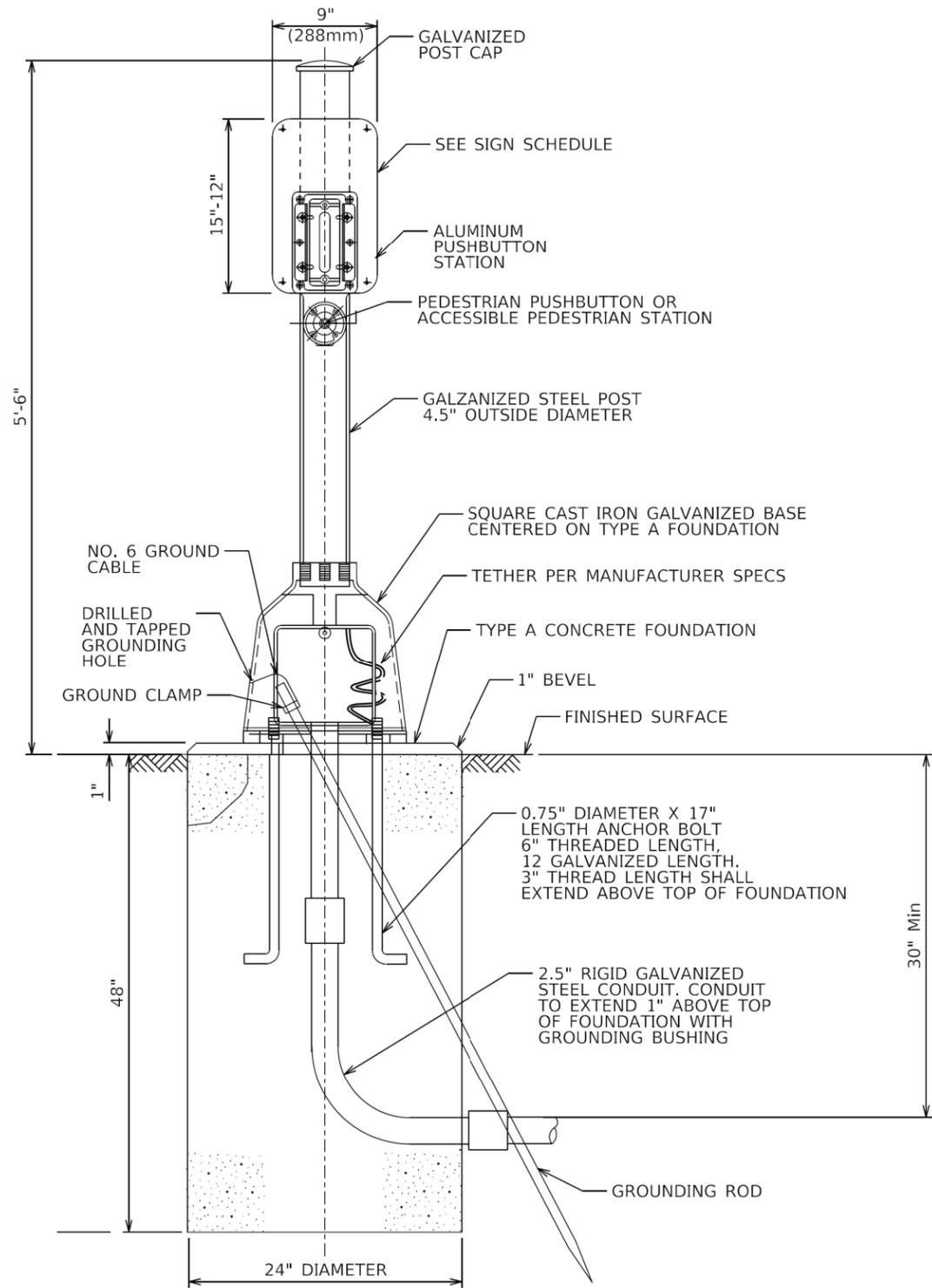


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PLOT SCALE = 40.0000" / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE DIAGRAM TROY RD AND MONTCLAIRE AVE	
SCALE: 1:20	SHEET 18 OF 18 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	36
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				



BOLT PATTERN
PEDESTRIAN PUSH-BUTTON POST

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville - Edwardsville, Troy, Rd. ITS and FVA Design\CADD Sheets\08-sht-Pin.Troy.dgn

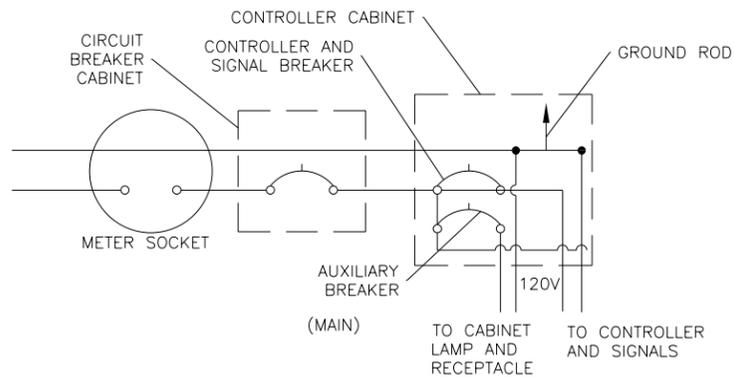


USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 19 Push Button Detail	DRAWN = CJW	REVISED =
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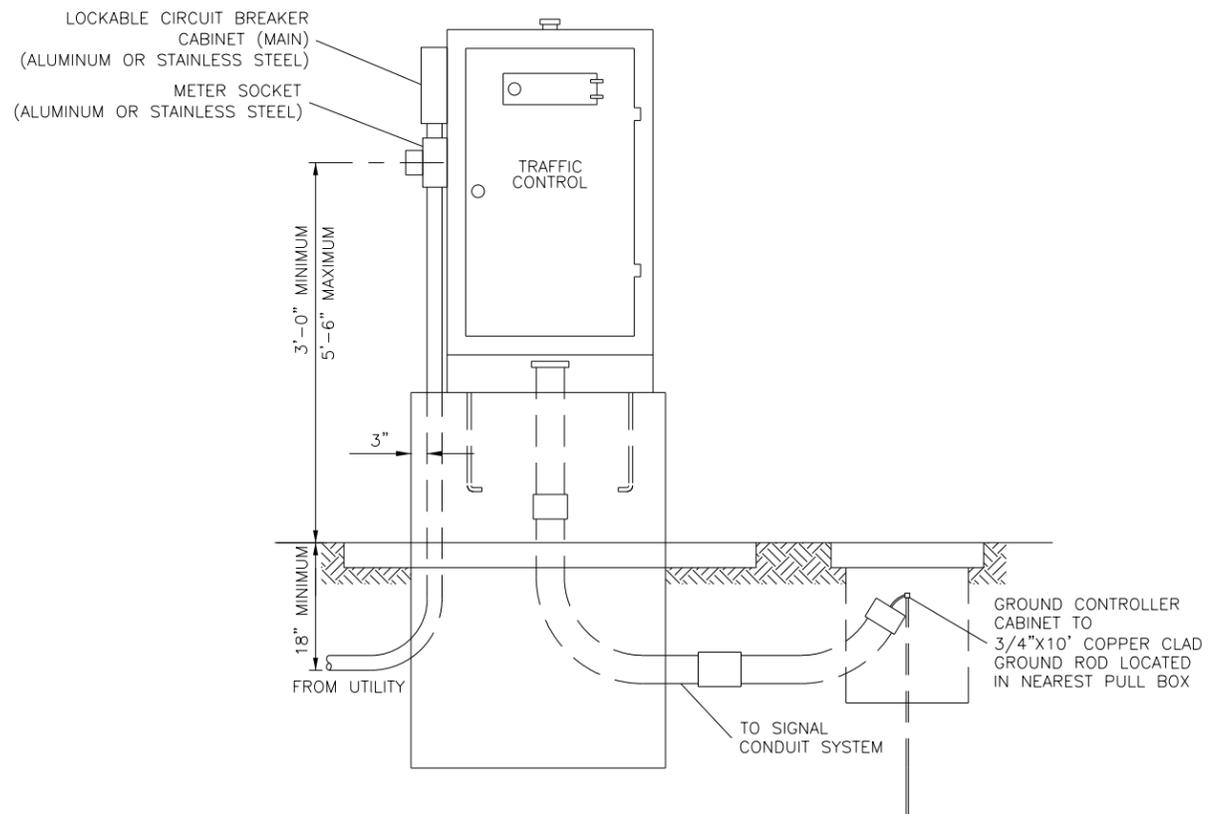
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS		
SCALE: NTS	SHEET 1	OF 2 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	37
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				



CABINET-MOUNTED DISCONNECT
WIRING DIAGRAM



DETAIL "A"

SIGNAL CONTROLLER CABINET WITH METER,
MAIN DISCONNECT AND LIGHTING CONTROLLER

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\05-sh-1-Pin-Troy.dgn



USER NAME = LJackson	DESIGNED NMN	REVISED -
MODEL NAME = 20 Electrical Service Installation Deta	DRAWN CJW	REVISED -
PLOT SCALE = 4.0000 1/ in.	CHECKED TWK	REVISED -
PLOT DATE = 4/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

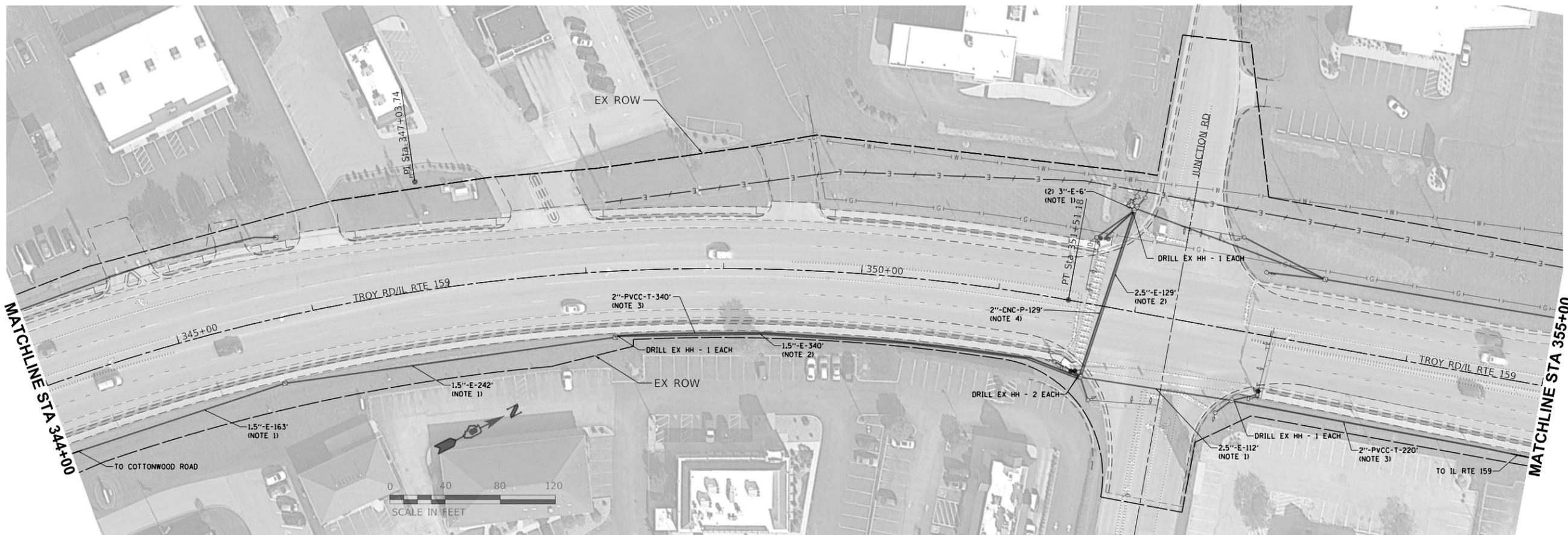
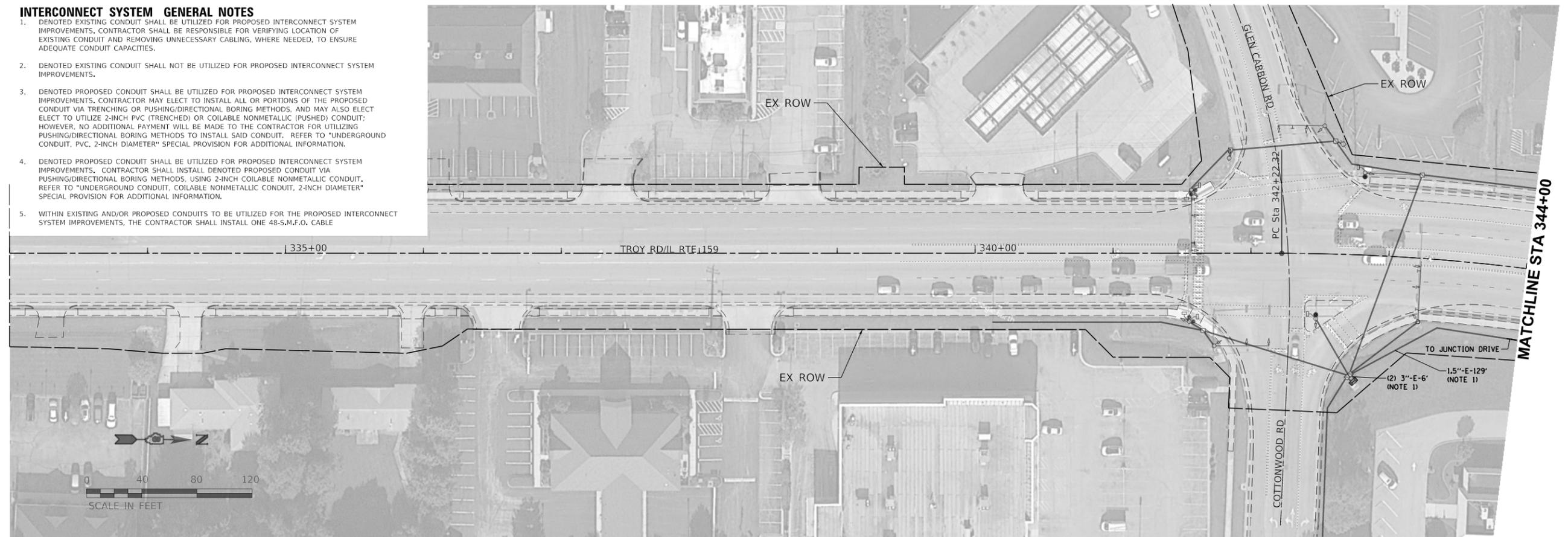
MISCELLANEOUS DETAILS

SCALE: NTS SHEET 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	38
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

INTERCONNECT SYSTEM GENERAL NOTES

1. DENOTED EXISTING CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF EXISTING CONDUIT AND REMOVING UNNECESSARY CABLING, WHERE NEEDED, TO ENSURE ADEQUATE CONDUIT CAPACITIES.
2. DENOTED EXISTING CONDUIT SHALL NOT BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
3. DENOTED PROPOSED CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR MAY ELECT TO INSTALL ALL OR PORTIONS OF THE PROPOSED CONDUIT VIA TRENCHING OR PUSHING/DIRECTIONAL BORING METHODS, AND MAY ALSO ELECT TO ELECT TO UTILIZE 2-INCH PVC (TRENCHED) OR COILABLE NONMETALLIC (PUSHED) CONDUIT; HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILIZING PUSHING/DIRECTIONAL BORING METHODS TO INSTALL SAID CONDUIT. REFER TO "UNDERGROUND CONDUIT, PVC, 2-INCH DIAMETER" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
4. DENOTED PROPOSED CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR SHALL INSTALL DENOTED PROPOSED CONDUIT VIA PUSHING/DIRECTIONAL BORING METHODS, USING 2-INCH COILABLE NONMETALLIC CONDUIT. REFER TO "UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2-INCH DIAMETER" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
5. WITHIN EXISTING AND/OR PROPOSED CONDUITS TO BE UTILIZED FOR THE PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS, THE CONTRACTOR SHALL INSTALL ONE 48-S.M.F.O. CABLE



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\08-sht-Pln_Troy.dgn



USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 21 Interconnect Sheet 01	DRAWN = CJW	REVISED =
PLOT SCALE = 80.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN TROY RD		
SCALE: 1:40	SHEET 1	OF 5 SHEETS

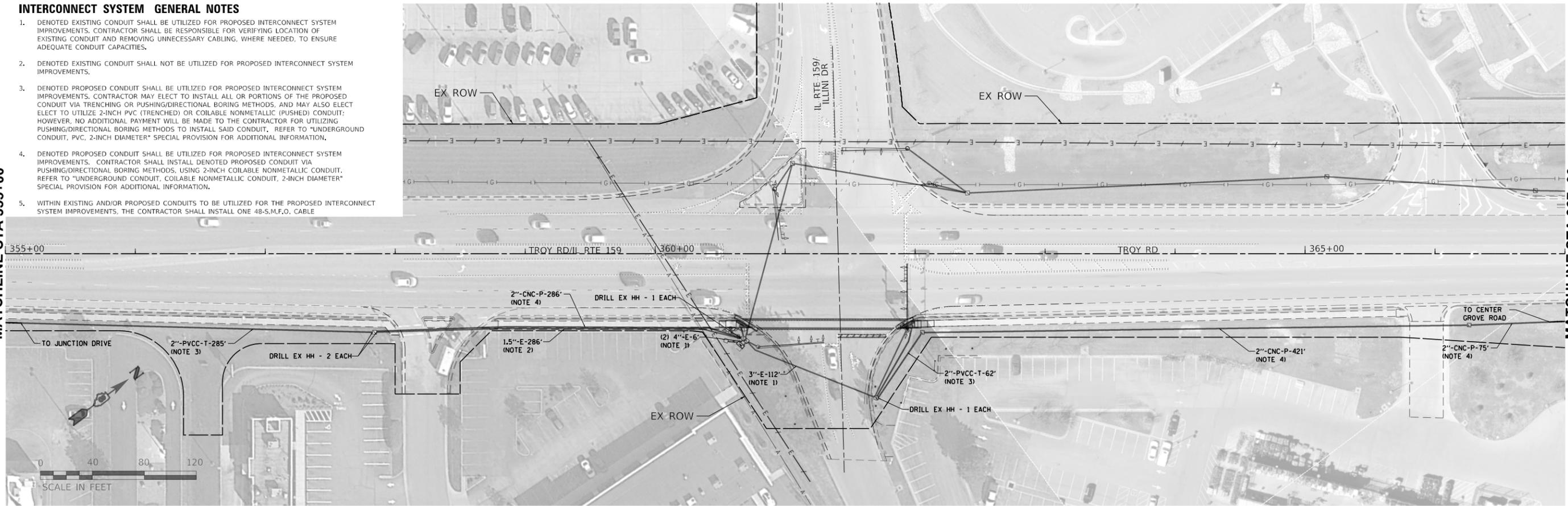
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	39
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

INTERCONNECT SYSTEM GENERAL NOTES

1. DENOTED EXISTING CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF EXISTING CONDUIT AND REMOVING UNNECESSARY CABLING, WHERE NEEDED, TO ENSURE ADEQUATE CONDUIT CAPACITIES.
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5. WITHIN EXISTING AND/OR PROPOSED CONDUITS TO BE UTILIZED FOR THE PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS, THE CONTRACTOR SHALL INSTALL ONE 48-S.M.F.O. CABLE

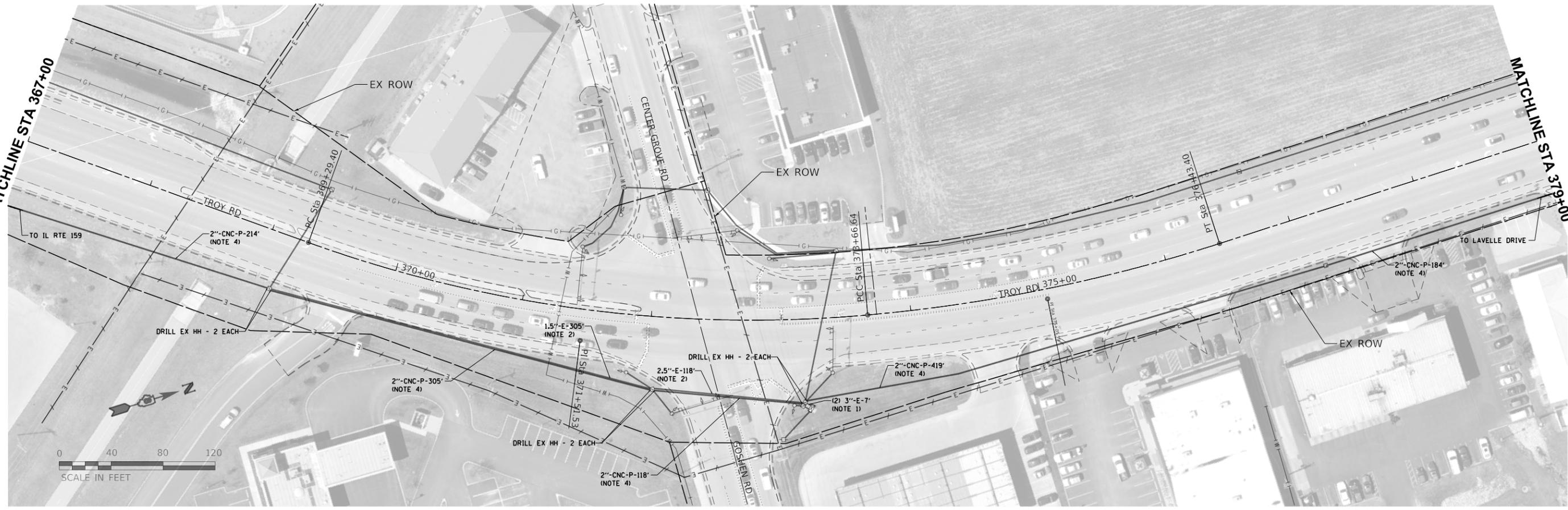
MATCHLINE STA 355+00

MATCHLINE STA 367+00



MATCHLINE STA 367+00

MATCHLINE STA 379+00



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\08-st-Pln_Troy.dgn



USER NAME = lJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 22 Interconnect Sheet 02	DRAWN = CJW	REVISED =
PLOT SCALE = 80.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN
TROY RD**

SCALE: 1:40 SHEET 2 OF 5 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	40
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS		FED. AID PROJECT		

INTERCONNECT SYSTEM GENERAL NOTES

1. DENOTED EXISTING CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF EXISTING CONDUIT AND REMOVING UNNECESSARY CABLING, WHERE NEEDED, TO ENSURE ADEQUATE CONDUIT CAPACITIES.
2. DENOTED EXISTING CONDUIT SHALL NOT BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
3. DENOTED PROPOSED CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR MAY ELECT TO INSTALL ALL OR PORTIONS OF THE PROPOSED CONDUIT VIA TRENCHING OR PUSHING/DIRECTIONAL BORING METHODS, AND MAY ALSO ELECT TO UTILIZE 2-INCH PVC (TRENCHED) OR COILABLE NONMETALLIC (PUSHED) CONDUIT; HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILIZING PUSHING/DIRECTIONAL BORING METHODS TO INSTALL SAID CONDUIT. REFER TO "UNDERGROUND CONDUIT, PVC, 2-INCH DIAMETER" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
4. DENOTED PROPOSED CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR SHALL INSTALL DENOTED PROPOSED CONDUIT VIA PUSHING/DIRECTIONAL BORING METHODS, USING 2-INCH COILABLE NONMETALLIC CONDUIT. REFER TO "UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2-INCH DIAMETER" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
5. WITHIN EXISTING AND/OR PROPOSED CONDUITS TO BE UTILIZED FOR THE PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS, THE CONTRACTOR SHALL INSTALL ONE 48-S.M.F.O. CABLE

MATCHLINE STA 379+00

MATCHLINE STA 391+00



MATCHLINE STA 391+00

MATCHLINE STA 403+00



FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\08-st-Pln_Troy.dgn



USER NAME = lJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 23 Interconnect Sheet 03	DRAWN = CJW	REVISED =
PLOT SCALE = 80.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN TROY RD		
SCALE: 1:40	SHEET 3	OF 5 SHEETS

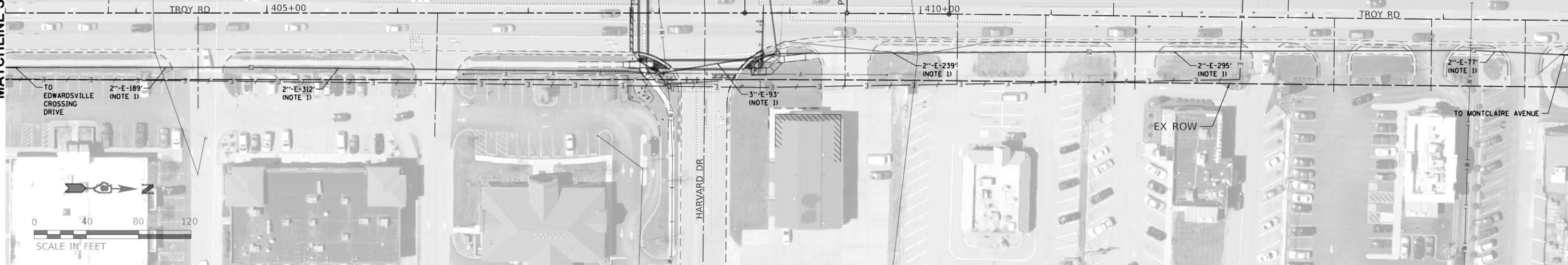
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	41
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS		FED. AID PROJECT		

INTERCONNECT SYSTEM GENERAL NOTES

1. DENOTED EXISTING CONDUIT SHALL NOT BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF EXISTING CONDUIT AND REMOVING UNNECESSARY CABLING, WHERE NEEDED, TO ENSURE ADEQUATE CONDUIT CAPACITIES.
2. DENOTED EXISTING CONDUIT SHALL NOT BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.
3. DENOTED PROPOSED CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS, CONTRACTOR MAY ELECT TO INSTALL ALL OR PORTIONS OF THE PROPOSED CONDUIT VIA TRENCHING OR PUSHING/DIRECTIONAL BORING METHODS, AND MAY ALSO ELECT TO UTILIZE 2-INCH PVC (TRENCHED) OR COILABLE NONMETALLIC (PUSHED) CONDUIT; HOWEVER, NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILIZING PUSHING/DIRECTIONAL BORING METHODS TO INSTALL SAID CONDUIT. REFER TO "UNDERGROUND CONDUIT, PVC, 2-INCH DIAMETER" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
4. DENOTED PROPOSED CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS, CONTRACTOR SHALL INSTALL DENOTED PROPOSED CONDUIT VIA PUSHING/DIRECTIONAL BORING METHODS, USING 2-INCH COILABLE NONMETALLIC CONDUIT. REFER TO "UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2-INCH DIAMETER" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
5. WITHIN EXISTING AND/OR PROPOSED CONDUITS TO BE UTILIZED FOR THE PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS, THE CONTRACTOR SHALL INSTALL ONE 48-S.M.F.O. CABLE.
6. DENOTED PROPOSED SIGNAL CONDUIT SHALL BE UTILIZED FOR PROPOSED INTERCONNECT SYSTEM IMPROVEMENTS.

MATCHLINE STA 403+00

MATCHLINE STA 415+00



MATCHLINE STA 415+00



PAY ITEM DESCRIPTION	UNIT	QTY
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	907
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA	FOOT	2,713
HANDHOLE	EACH	3
DRILL EXISTING HANDHOLE	EACH	18
FIBER OPTIC SPUCE ENCLOSURE	EACH	9
LAYER II (DATA/UNK) SWITCH	EACH	9
TERMINATE FIBER IN CABINET	EACH	36
GPS CLOCK SYNC UNIT	EACH	9
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	8,890
FIBER OPTIC FUSION SPLICE	EACH	64

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd ITS and FVA Design\CADD Sheets\08-shr-Pln_Troy.dgn



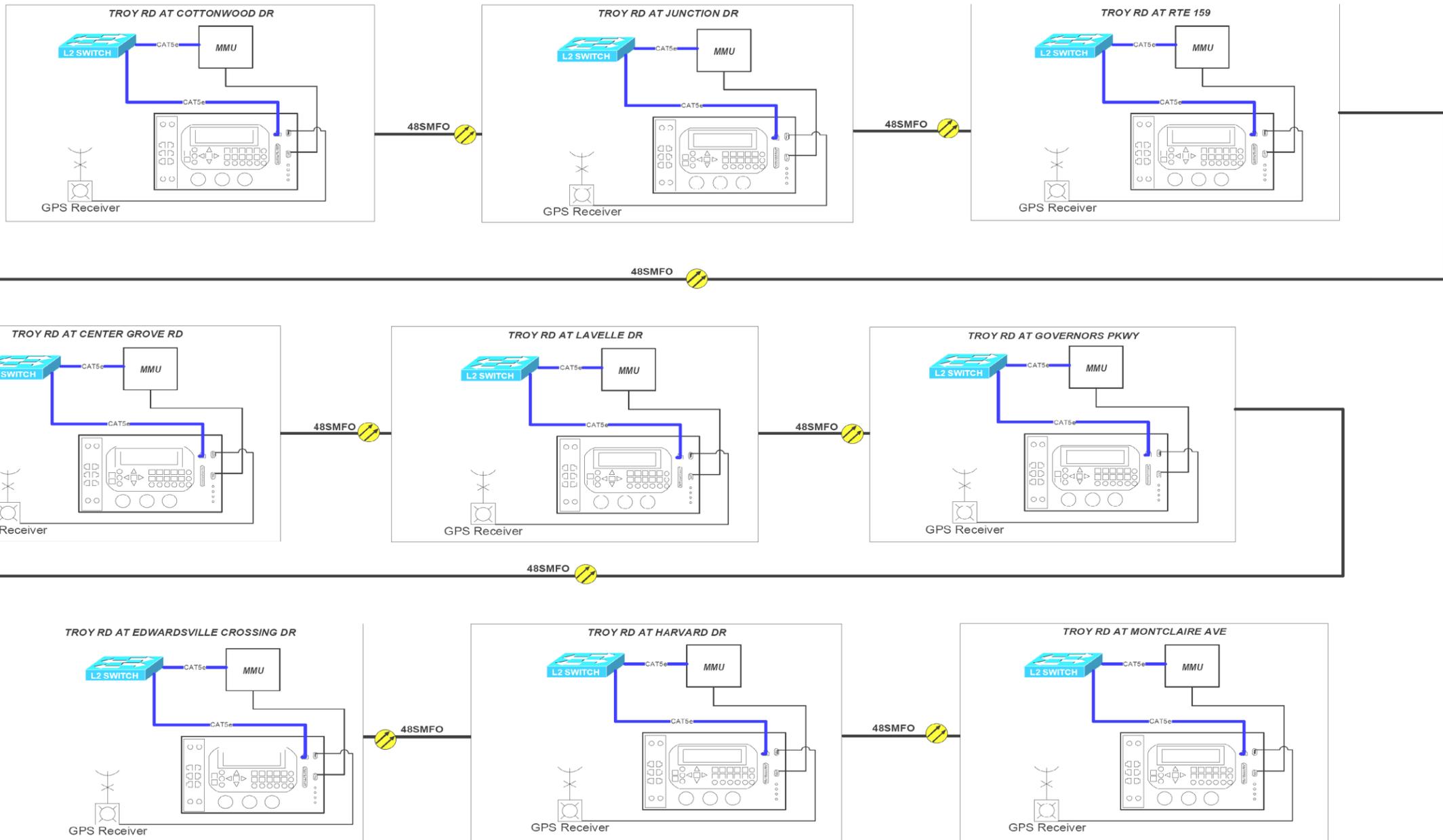
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PLOT SCALE = 80.0000' / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT PLAN
TROY RD**
SCALE: 1:40 SHEET 4 OF 5 SHEETS

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	42
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

TROY ROAD CORRIDOR



CONNECTION OVERVIEW
TROY ROAD
COTTONWOOD DRIVE TO
MONTCLAIRE AVENUE

NOTE:
1) DASHED LINES INDICATE EXISTING EQUIPMENT OR CABLING.
2) ALL FIBER SPLICES ARE NOT SHOWN. SEE DETAIL COMMUNICATION DIAGRAMS.

ROUTE @ ROUTE	LOCATION IDENTIFIER	EXISTING/PROPOSED LAYER 2 SWITCH	MMU MALFUNCTION MANAGEMENT UNIT	CELLULAR MODEM CELLULAR MODEM	VIDEO DETECTION SYSTEM	SENSYS DETECTION SYSTEM	FIBER OPTIC CABLE	PROPOSED CABLE
		EXISTING/PROPOSED TRAFFIC SIGNAL CONTROLLER	WIRELESS ETHERNET BRIDGE	WIRELESS ETHERNET BRIDGE POWER INJECTOR	10 MBPS ETHERNET	IP VIDEO ENCODER	WIRELESS CONNECTION	EXISTING CABLE
			POWER INJECTOR		100 MBPS ETHERNET	DEVICE SERVER	EXISTING/PROPOSED FUSION SPLICE	

FILE NAME: S:\Projects\2018 Projects\518-0893-01E - Edwardsville, Troy Rd ITS and FVA Design\CADD Sheets\08-ht-Pln-Troy.dgn



USER NAME = l.Jackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 25 Communication Diagram	DRAWN = CJW	REVISED = -
PLOT SCALE = 4.0000' / in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

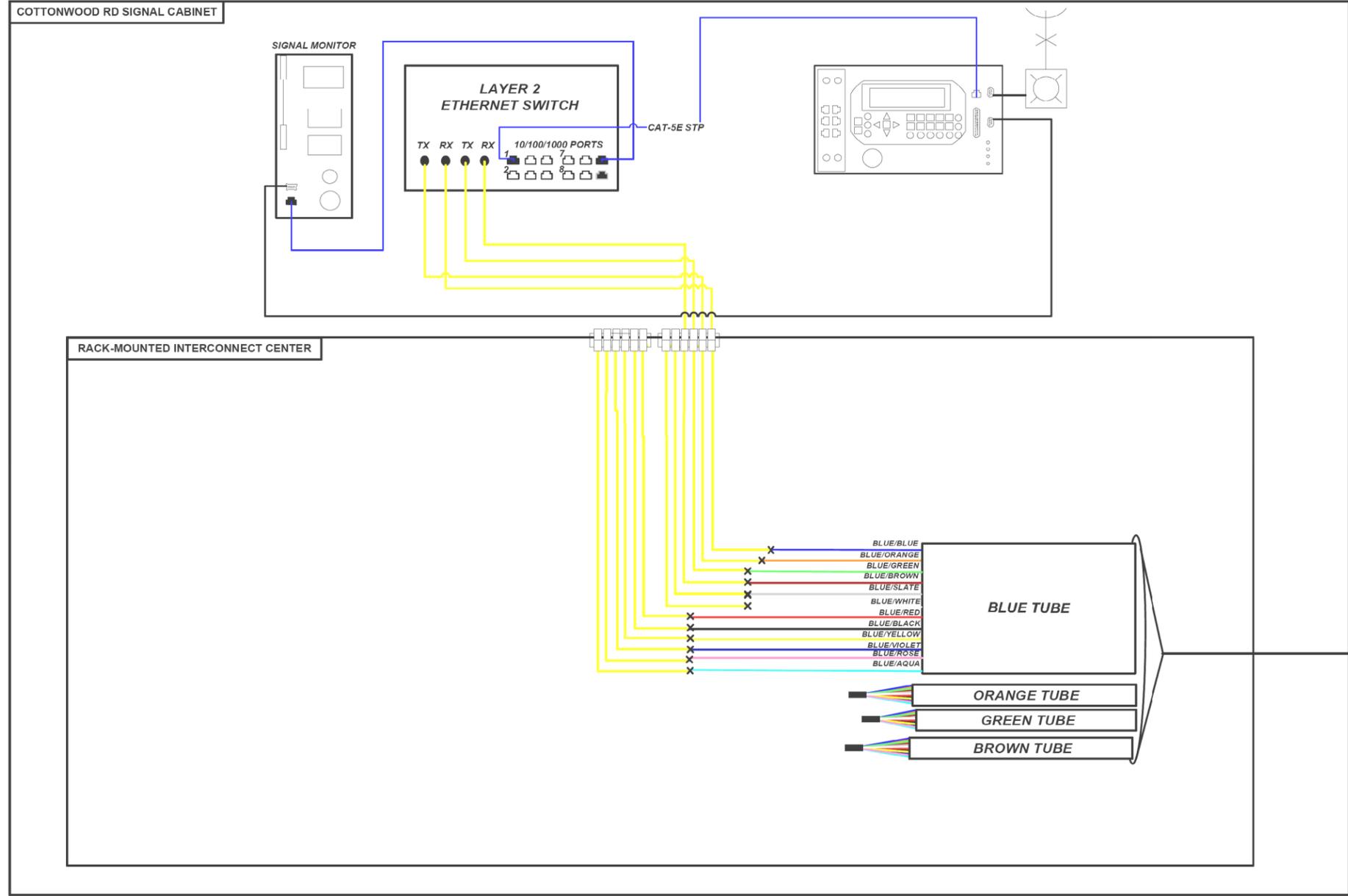
NETWORK COMMUNICATION DIAGRAM
TROY RD (COTTONWOOD RD TO MONTCLAIRE DR)

SCALE: NTS SHEET 1 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	43
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

-  GPS RECEIVER
-  TRAFFIC SIGNAL CONTROLLER
-  EQUIPMENT CONNECTION FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  BARE FIBER LEFT COILED IN SPLICE TRAY
-  FUSION SPLICE
-  PATCH PANEL MODULE
-  MALFUNCTION MANAGEMENT UNIT
-  VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
 2. NO INTERMEDIATE SPLICES ALLOWED
 3. ALL SPLICES SHALL BE FUSION SPLICES
- NOT TO SCALE**

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville Troy Rd ITS and FVA Design\CADD Sheets\05-st-Pln-Troy.dgn

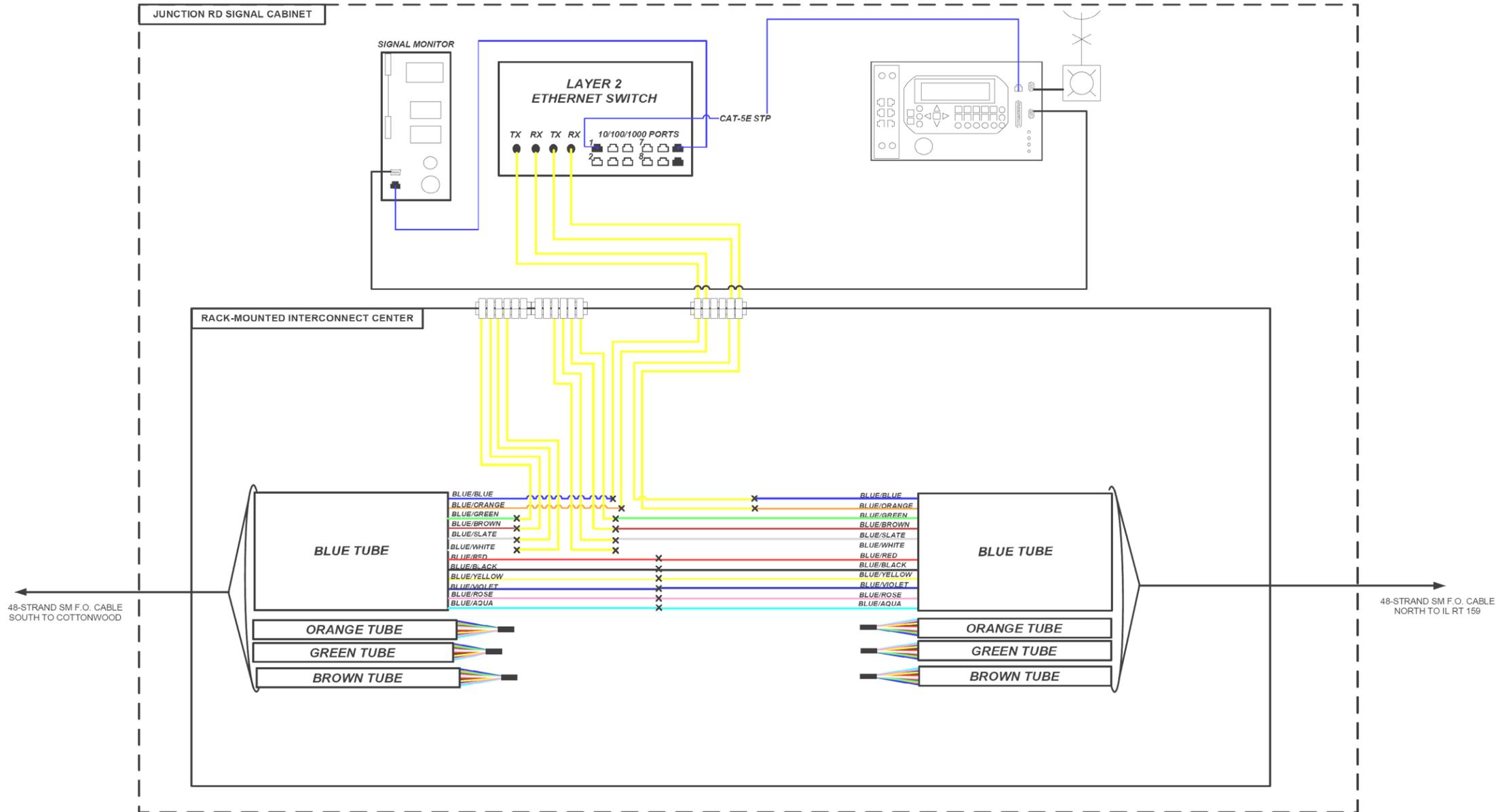
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MODEL NAME = 26 Communication Diagram - Cottonwood	DRAWN CJW	REVISED -
PLOT SCALE = 4.0000 1/ in.	CHECKED TWK	REVISED -
PLOT DATE = 4/11/2022	DATE -	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	44
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

KEY

- GPS RECEIVER
- TRAFFIC SIGNAL CONTROLLER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- MALFUNCTION MANAGEMENT UNIT
- VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



NOTES

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES

NOT TO SCALE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd, IIS and FVA Design\CADD Sheets\05-st-Pln, Troy.dgn

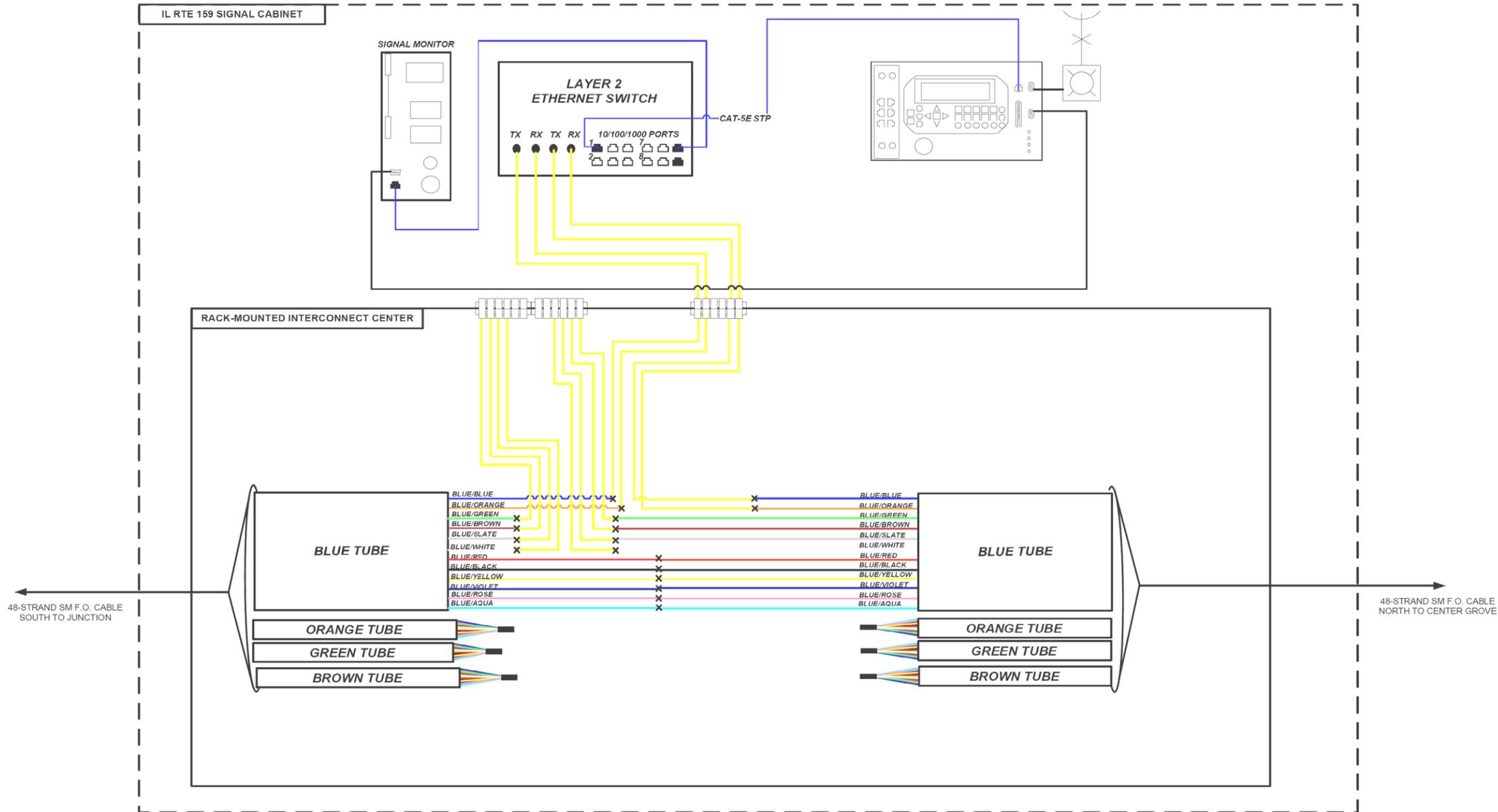
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MODEL NAME = 27 Communication Diagram - Junction	DRAWN = CJW	REVISED = -
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PLOT DATE = 4/11/2022	DATE = -	REVISED = -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	45
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

KEY

- GPS RECEIVER
- TRAFFIC SIGNAL CONTROLLER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- MALFUNCTION MANAGEMENT UNIT
- VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
 2. NO INTERMEDIATE SPLICES ALLOWED
 3. ALL SPLICES SHALL BE FUSION SPLICES
- NOT TO SCALE**

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd, IIS and FVA Design\CADD Sheets\05-st-Pln_Troy.dgn

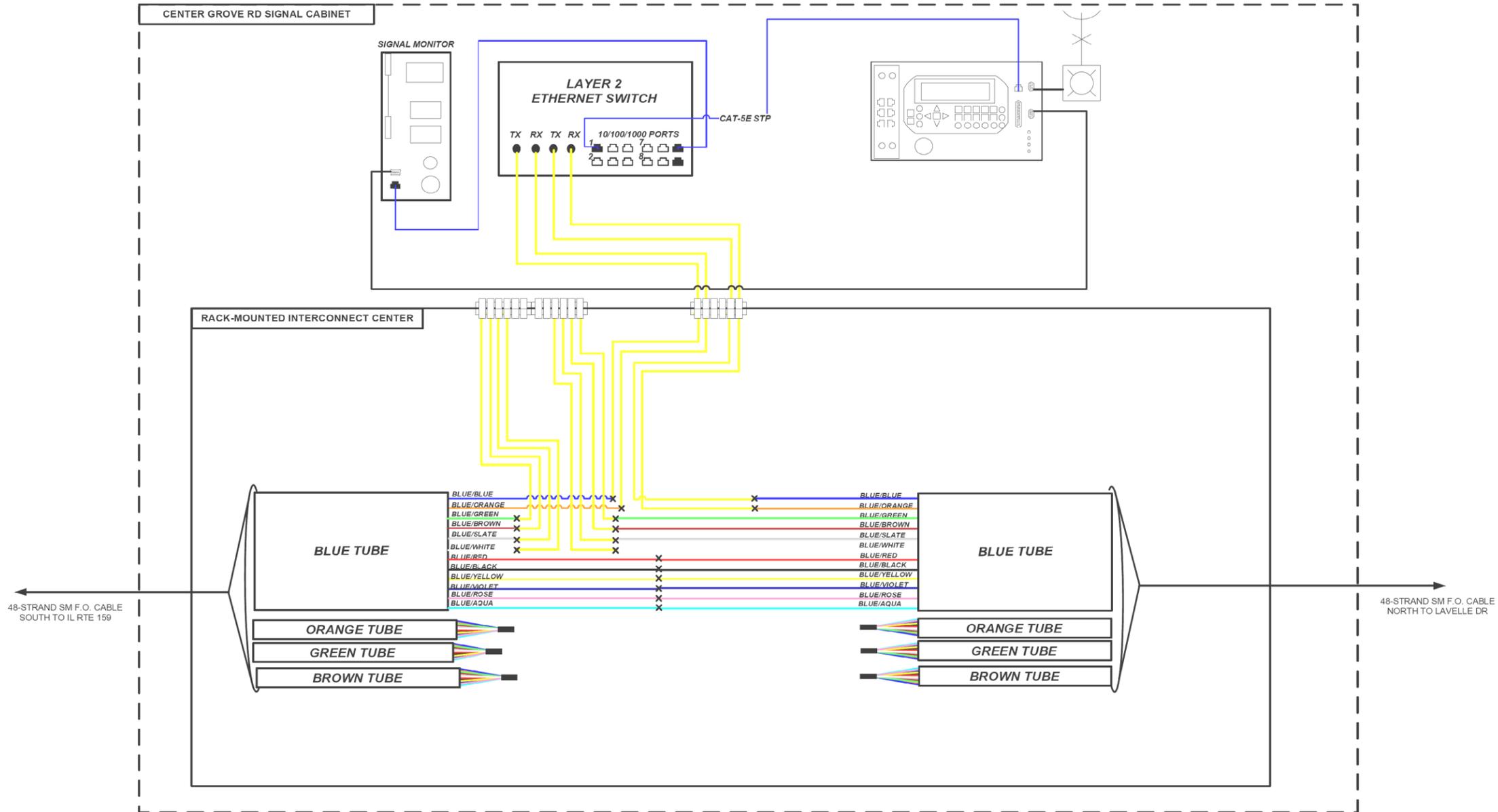
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MODEL NAME = 28 Communication Diagram - IL RT 159	DRAWN = CJW	REVISED = -
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PLOT DATE = 4/11/2022	DATE = -	REVISED = -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	46
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

KEY

- GPS RECEIVER
- TRAFFIC SIGNAL CONTROLLER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- MALFUNCTION MANAGEMENT UNIT
- VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
 2. NO INTERMEDIATE SPLICES ALLOWED
 3. ALL SPLICES SHALL BE FUSION SPLICES
- NOT TO SCALE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy Rd, ITS and FVA Design\CADD Sheets\05-st-Pln_Troy.dgn

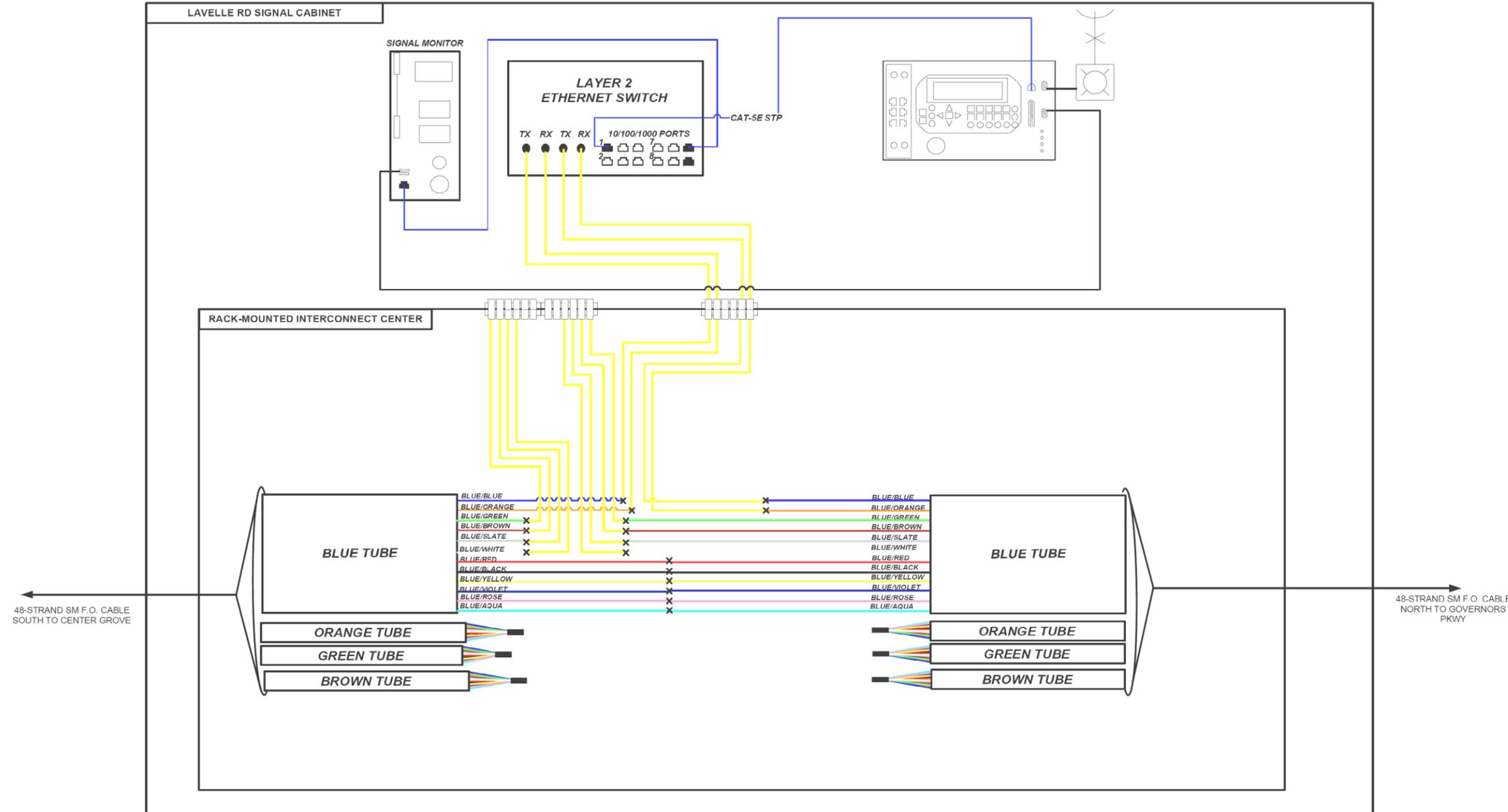
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MODEL NAME = 29 Communication Diagram - Center Grove	DRAWN = CJW	REVISED = -
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PLOT DATE = 4/11/2022	DATE = -	REVISED = -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	47
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				

KEY

- GPS RECEIVER
- TRAFFIC SIGNAL CONTROLLER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- MALFUNCTION MANAGEMENT UNIT
- VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



NOTES

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES

NOT TO SCALE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd, ITS and FVA Design\CADD Sheets\05-st-Pln_Troy.dgn

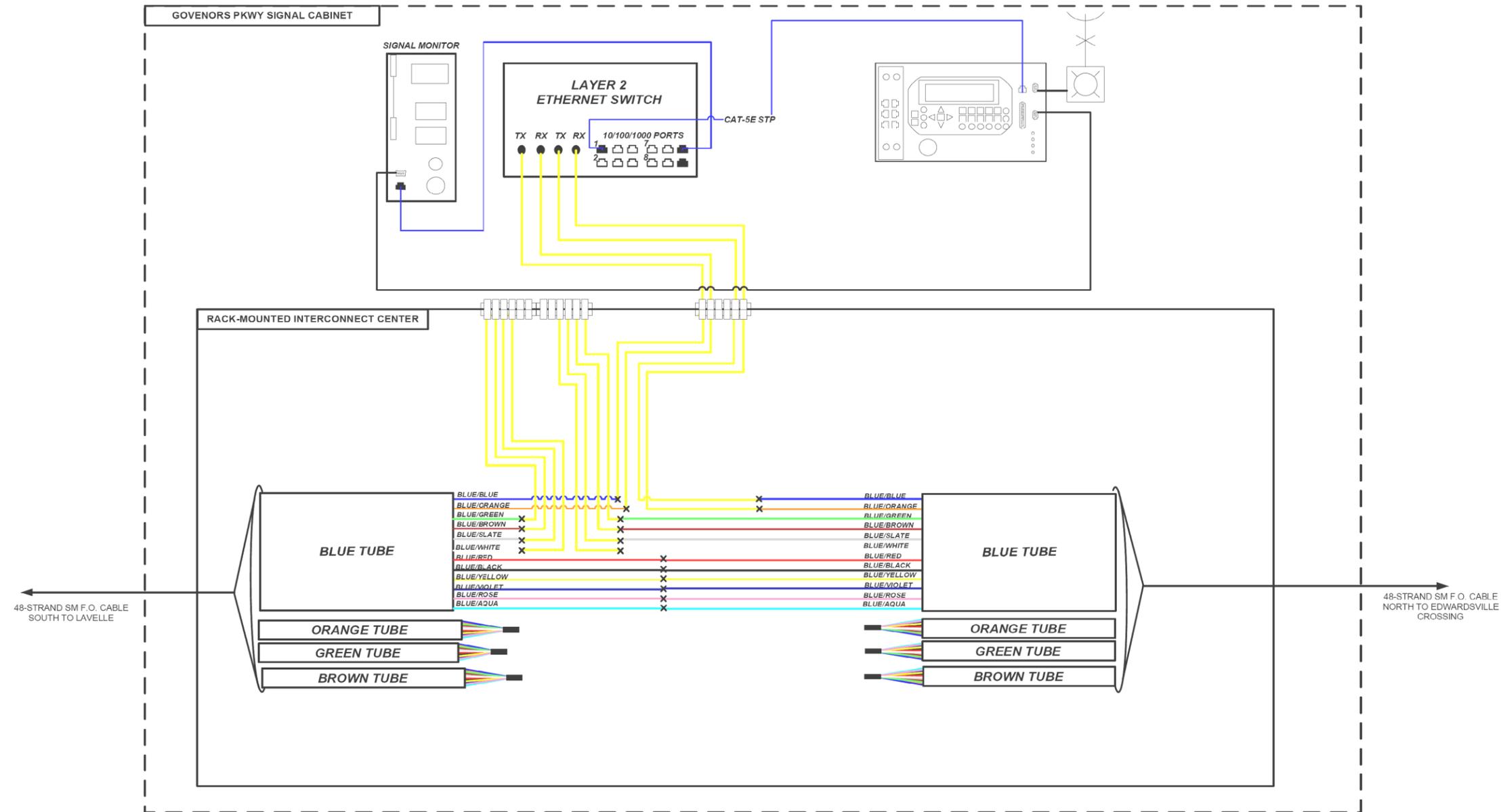
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MODEL NAME = 30 Communication Diagram - Lavelle	DRAWN = CJW	REVISED = -
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PLOT DATE = 4/11/2022	DATE = -	REVISED = -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	48
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

KEY

- GPS RECEIVER
- TRAFFIC SIGNAL CONTROLLER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- MALFUNCTION MANAGEMENT UNIT
- VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



- ### NOTES
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
 2. NO INTERMEDIATE SPLICES ALLOWED
 3. ALL SPLICES SHALL BE FUSION SPLICES
- NOT TO SCALE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville - Troy Rd ITS and FVA Design\CADD Sheets\05-st-Pln-Troy.dgn

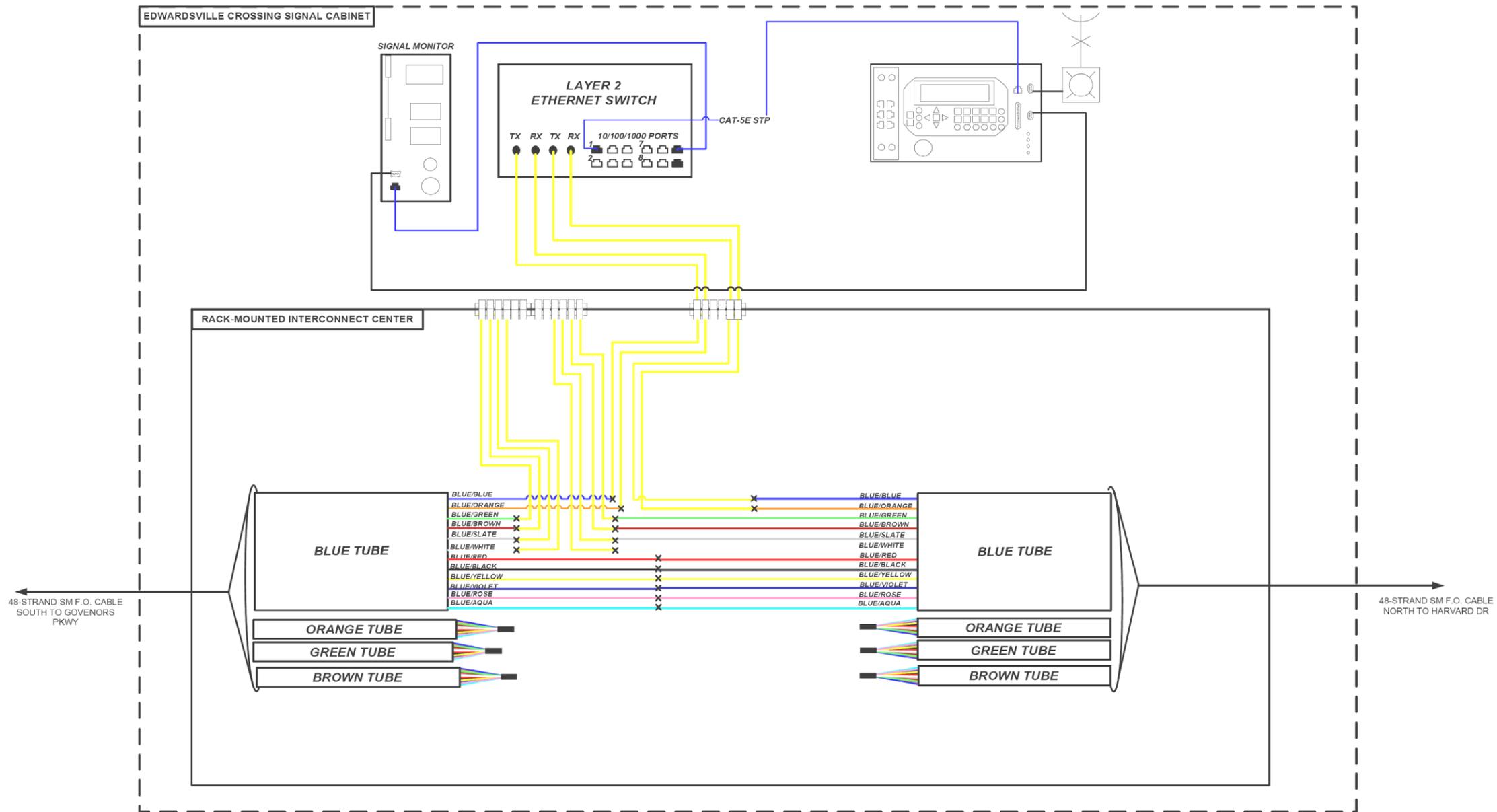
USER NAME = LJackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 31 Communication Diagram - Governors	DRAWN = CJW	REVISED = -
PLOT SCALE = 4.0000 1/ in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	49
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

KEY

- GPS RECEIVER
- TRAFFIC SIGNAL CONTROLLER
- EQUIPMENT CONNECTION FIBER OPTIC JUMPER
- FIBER OPTIC PIGTAIL
- BARE FIBER LEFT COILED IN SPLICE TRAY
- FUSION SPLICE
- PATCH PANEL MODULE
- MALFUNCTION MANAGEMENT UNIT
- VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



- ### NOTES
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
 2. NO INTERMEDIATE SPLICES ALLOWED
 3. ALL SPLICES SHALL BE FUSION SPLICES
- NOT TO SCALE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd, ITS and FVA Design\CADD Sheets\05-st-Pln-1.rvt.dgn

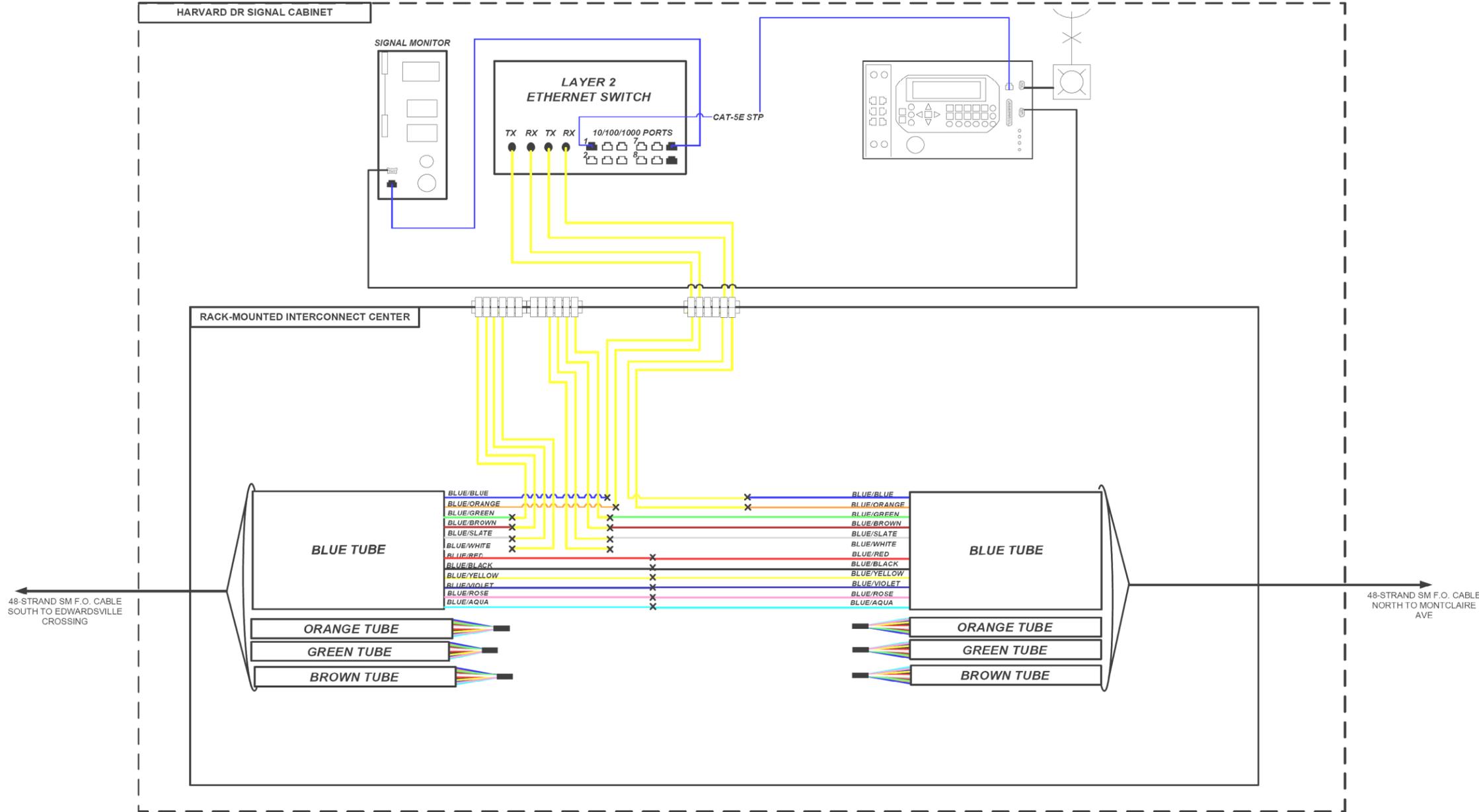
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MODEL NAME = 32 Communication Diagram - Edwardsville	DRAWN CJW	REVISED -
PLOT SCALE = 4.0000 1/ in.	CHECKED TWK	REVISED -
PLOT DATE = 4/11/2022	DATE -	REVISED -

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	50
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				

KEY

-  GPS RECEIVER
-  TRAFFIC SIGNAL CONTROLLER
-  EQUIPMENT CONNECTION FIBER OPTIC JUMPER
-  FIBER OPTIC PIGTAIL
-  BARE FIBER LEFT COILED IN SPLICE TRAY
-  FUSION SPLICE
-  PATCH PANEL MODULE
-  MALFUNCTION MANAGEMENT UNIT
-  VIDEO DETECTION SYSTEM

NOTE: DASHED LINES DENOTE EXISTING CABLES, DEVICES, OR ENCLOSURES.



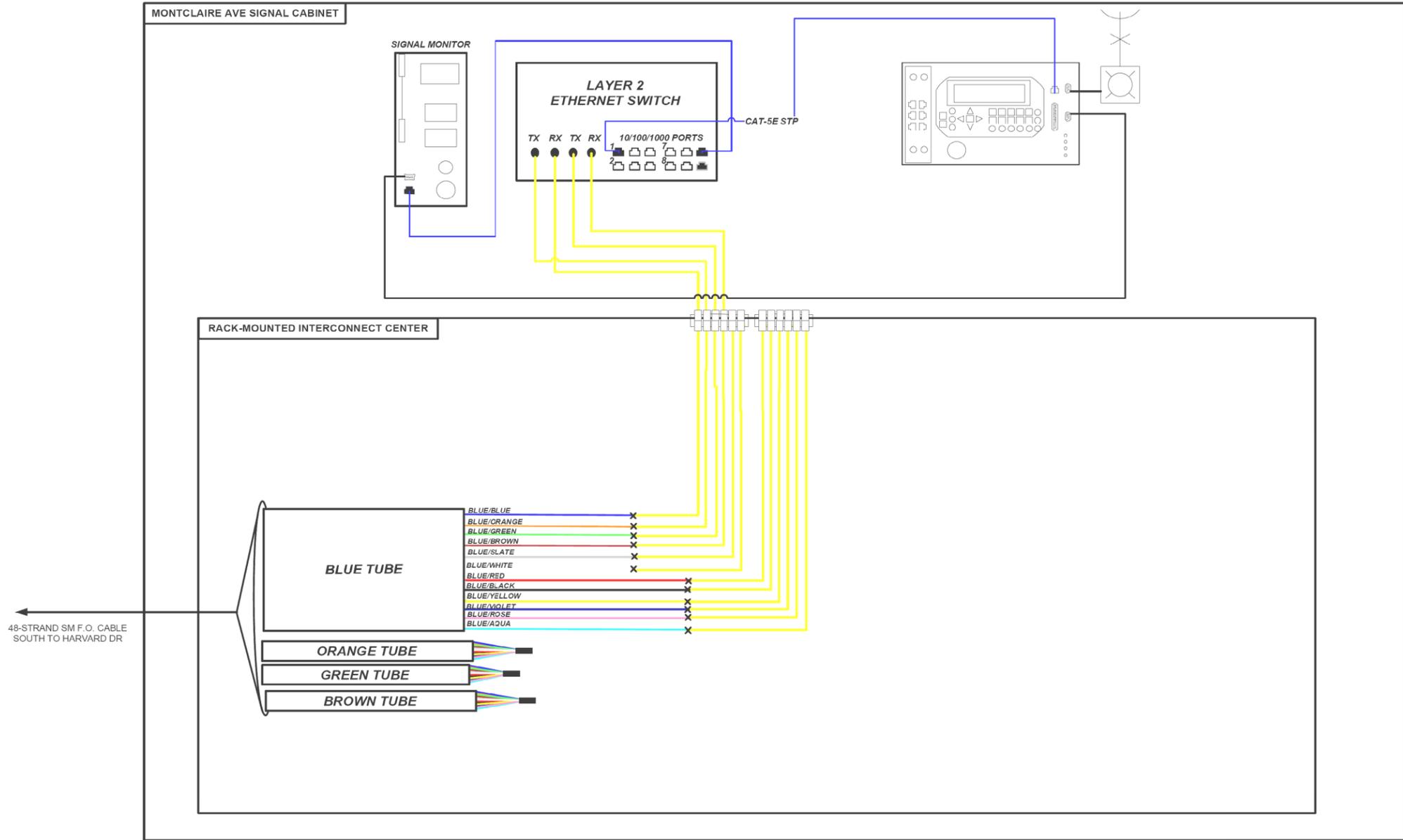
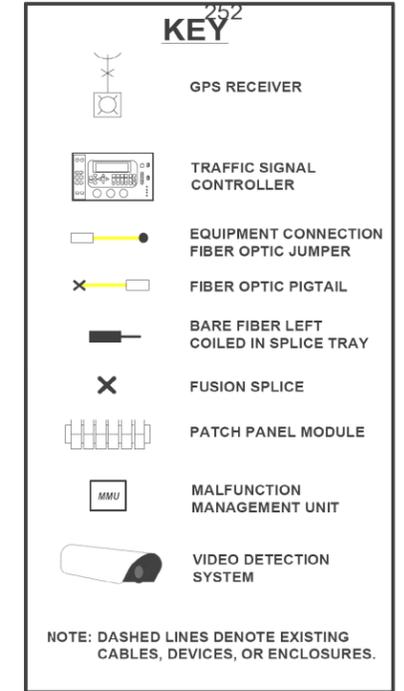
- NOTES**
1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
 2. NO INTERMEDIATE SPLICES ALLOWED
 3. ALL SPLICES SHALL BE FUSION SPLICES

NOT TO SCALE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville, Troy, Rd, ITS and FVA Design\CADD Sheets\05-st-Pln-1.rvt.dgn

USER NAME = LJackson	DESIGNED = NMN	REVISED = -
MODEL NAME = 33 Communication Diagram - Harvard	DRAWN = CJW	REVISED = -
PLOT SCALE = 4.0000 1/ in.	CHECKED = TWK	REVISED = -
PLOT DATE = 4/11/2022	DATE = -	REVISED = -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	51
FAP 600/FAU 8887			CONTRACT NO. 97777	
ILLINOIS FED. AID PROJECT				



NOTES

1. MAXIMUM SPLICE LOSS SHALL BE 0.1 dB
2. NO INTERMEDIATE SPLICES ALLOWED
3. ALL SPLICES SHALL BE FUSION SPLICES

NOT TO SCALE

FILE NAME: S:\Projects\2018 Projects\518-0093-01E - Edwardsville - Troy Rd ITS and FVA Design\CADD Sheets\05-st-Pln-Troy.dgn

USER NAME = LJackson	DESIGNED = NMN	REVISED =
MODEL NAME = 34 Communication Diagram - Montclair	DRAWN = CJW	REVISED =
PLOT SCALE = 4.0000" / in.	CHECKED = TWK	REVISED =
PLOT DATE = 4/11/2022	DATE =	REVISED =

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00108-00-TL	MADISON	52	52
FAP 600/FAU 8887		CONTRACT NO. 97777		
ILLINOIS FED. AID PROJECT				