04-23-2021 LETTING ITEM 185

SEE SHEET 2 FOR INDEX OF SHEETS

INDEX OF SHEETS:

0

0

0

0

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D-94-021-21

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION D4 ITS SYSTEM 2021

VARIOUS COUNTIES

C-94-036-21

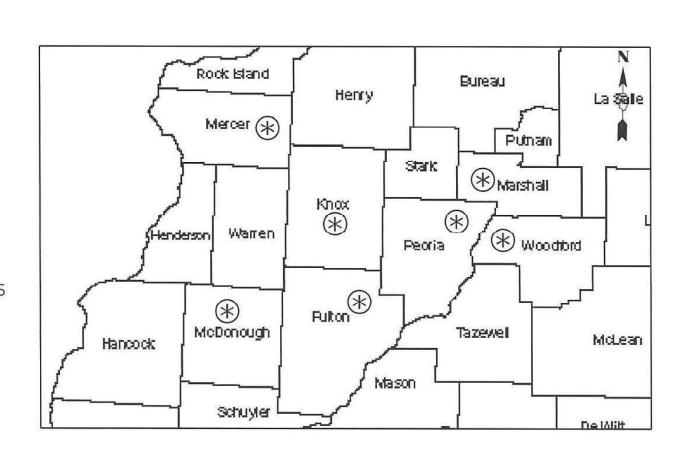
HIGHWAY STANDARDS: SEE SHEET 2 FOR A LIST OF APPLICABLE HIGHWAY STANDARDS

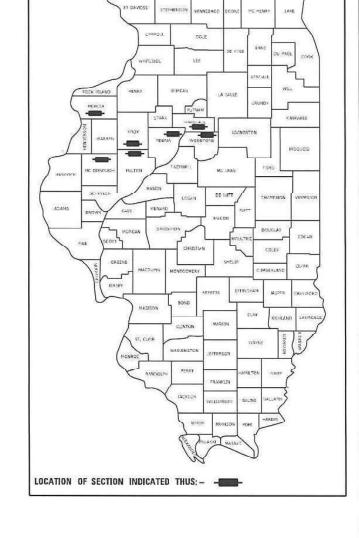
PROJECT DESCRIPTION:
INSTALLATION OF NEW TRAFFIC SIGNAL
CABINETS, TRAFFIC SIGNAL CONTROLLERS,
COMMUNICATIONS EQUIPMENT, AND VIDEO
DETECTION SYSTEMS AT VARIOUS LOCATIONS
IN DISTRICT FOUR.

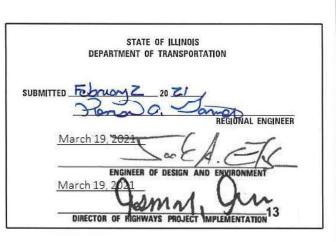
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: ERIC HOWALD (309) 671–4481
PROJECT MANAGER: BEN TELLEFSON (309) 671–4477

CATALOG NO. 036151-00D CONTRACT NO. 68G19







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

	INDEX OF SHEETS
SHEET	DESCRIPTION
1	COVER SHEET
2	COMMITMENTS, INDEX OF SHEETS, AND
	HIGHWAY STANDARDS
3	CONSTRUCTION NOTES
4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6 - 9	PROPOSED FIBER OPTIC INSTALLATION - IL 29
0 - 9	(4TH ST.) - CHILLICOTHE
10	COMMUNICATIONS VAULT INSTALLATION DETAIL
11	FIBER OPTIC CABLE INSTALLATION DIAGRAM
12 - 15	PROPOSED TRAFFIC SIGNAL CONTROLLER PHASE
12 - 13	DIAGRAMS AND INSTALLATION NOTES

	HIGHWAY STANDARDS
STANDARD	APPLICATION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM
701101-05	PAVEMENT EDGE
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH
701002-10	BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE
02/001-01	SEQUENCES

701001-02

701006-05

701106-02

FIBER OPTIC CABLE SLACK
HANDHOLE: 10.0 FT.
DOUBLE HANDHOLE: 30.0 FT.
COMMUNICATIONS VAULT: 200.0 FT.
TRAFFIC SIGNAL CABINET: 10.0 FT.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION COMMITMENTS, INDEX OF SHEETS, AND HIGHWAY STANDARDS

ALE: SHEET OF SHEETS STA. TO STA.

CONSTRUCTION NOTES

- 1. THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.
- 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
- 3. | ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
- 4. THE LOCATIONS FOR COMMUNICATIONS VAULTS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
- 5. ALL EXISTING IDOT ELECTRIC FACILITIES SHALL REMAIN IN OPERATION DURING THE CONSTRUCTION OF THE PROPOSED CONDUIT AND FIBER OPTIC CABLE.
- 5. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.
- 7. REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND CONCRETE ISLANDS FOR UTILITY LOCATING PURPOSES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEM.
- 8. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEM.
-). | ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 10. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 24" MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR THE CONDUIT.
- 12. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
- 13. REMOVAL OF EXISTING TRAFFIC SIGNAL COMPONENTS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PROPOSED ITEMS.
- 14. THERE SHALL BE NO ADDITIONAL SPLICES IN THE FIBER OPTIC CABLE EXCEPT WHERE NOTED IN THE PLANS, OR UPON APPROVAL OF THE TRAFFIC ENGINEER.
- 15. COMMUNICATIONS VAULTS SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUNDLINE.
- 16. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
- 17. THE CONTRACTOR SHALL INSTALL A #12 (XLP-TYPE USE OR THHN) TRACER WIRE ALONG WITH THE FIBER OPTIC CABLE FOR LOCATING PURPOSES. THE TRACER WIRE SHALL BE CONTINUOUS AND BE ACCESSIBLE FROM COMMUNICATION VAULTS, HANDHOLES, AND TRAFFIC SIGNAL CABINETS. THE COST OF FURNISHING AND INSTALLING THE TRACER WIRE SHALL BE INCLUDED IN THE BID PRICE FOR
- 18. ALL COMMUNICATION DUCT SHALL BE INSTALLED AND PAID FOR IN ACCORDANCE WITH SECTION 810 "UNDERGROUND RACEWAYS" OF THE STANDARD SPECIFICATIONS.
- 19. THE LOCATION OF THE PROPOSED CONDUIT AS SHOWN ON THE PLAN SHEETS IS APPROXIMATE AND NOT DRAWN TO SCALE. CONDUIT SHALL BE INSTALLED UNDER THE EXISTING SIDEWALK WHEN POSSIBLE. THE CONDUIT SHALL E INSTALLED AT A 24" MINIMUM DEPTH EXCEPT WHEN CROSSING WATERWAYS AND DRAINAGE FLOW LINES WHERE IT SHALL BE INSTALLED AT A 60" DEPTH.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING DRAINAGE STRUCTURES. THE CONTRACTOR SHALL MAKE AN EFFORT TO MINIMIZE DAMAGE TO THESE FACILITIES DURING THE INSTALLATION OF CONDUIT AND COMMUNICATION VAULTS. IN THE EVENT THAT THESE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING REPAIRS TO THESE ITEMS AND RESTORING FUNCTIONALITY TO THE SATISFACTION OF THE ENGINEER.
- 21. THE CONTRACTOR SHALL PLAN AND CONDUCT COMMUNICATIONS VAULT, CONDUIT AND FIBER OPTIC CABLE INSTALLATION OPERATIONS TO MINIMIZE THE NUMBER OF ROAD LANE CLOSURES AND TO MINIMIZE TRAFFIC DISRUPTIONS AND DELAYS FOR THE MOTORING PUBLIC.
- 22. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR INSTALLING COMMUNICATIONS DUCT AND COMMUNICATIONS VAULTS UNDER AND ALONG STATE, CITY, AND TOWNSHIP ROADWAYS
- 23. ALL CCTV CAMERAS SHALL BE INSTALLED AT A MINIMUM MOUNTING HEIGHT OF 43 FT.
- 24. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS BY GRADING AND SEEDING. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED CONDUIT.
- 25. ALL TERMINATED FIBERS SHALL BE LATERALLY SPLICED INSIDE COMMUNICATIONS VAULTS AND HANDHOLES. ALL UNUSED FIBERS AND BUFFER TUBES SHALL REMAIN INTACT FOR FUTURE USE.
- 26. $oxed{\mathsf{T}}$ THE DEPARTMENT WILL PROGRAM THE TRAFFIC SIGNAL CONTROLLERS PRIOR TO INSTALLATION IN THE FIELD.
- 27. \mid THE TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE ORIENTED SO THAT THE DOOR IS FACING AWAY FROM TRAFFIC.
- THE CONTRACTOR SHALL REMOVE THE EXISTING TRAFFIC SIGNAL CABINET AND PERIPHERAL EQUIPMENT FROM THE LOCATIONS AS LISTED IN THE PLANS AND DELIVER THEM TO THE IDOT TRAFFIC BUILDING AT 1025 W. DETWEILLER DR. PEORIA, IL 61615.
- 29. THE CONTRACTOR SHALL REMOVE EXISTING BATTERY BACKUP SYSTEM CABINETS AND COMPONENTS FROM EXISTING TRAFFIC SIGNAL CONTROLLER CABINETS AND INSTALL THEM IN THE PROPOSED CONTROLLER CABINETS AT EACH LOCATION. THIS WORK SHALL BE INCLUDED IN THE BID PRICE OF THE PROPOSED TRAFFIC SIGNAL CABINETS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A MINIMUM OF TWO STOP SIGNS PER APPROACH WHEN THE INTERSECTION IS OPERATING IN ALL-RED FLASH MODE OR ALL-WAY STOP CONTROL FOR TIME PERIODS IN EXCESS OF FIFTEEN MINUTES. THE STOP SIGNS SHALL BE DISPLAYED IN ACCORDANCE WITH ALL APPLICABLE MUTCD REQUIREMENTS. ALL COSTS (LABOR, MATERIALS, AND EQUIPMENT) ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE PROPOSED TRAFFIC SIGNAL CABINETS AND CONTROLLERS. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -
PLOT DATE = 2/4/2021	DATE -	REVISED -

	COLICED	LICTION	NOTES	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
	CONSTR	UCTION	NOTES		VAR.	D4 ITS SYSTEM 20	VARIOUS	15	3	
								CONTRACT	NO. 68	3G19
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AI	ID PROJECT		

				VARIOUS COUNTIES		FULTON COUNT	Υ		KNOX COUNTY		MCDONOUGH COUNTY						
	SUMMARY OF QUANTITIES	T		CONST. TYPE CODE 0021 100% STATE 0% COUNTY ITS / SIGNALS URBAN	CODE 0021 95% STATE 5% CANTON	CONST. TYPE CODE 0021 93.3% STATE 6.7% CANTON ITS / SIGNALS URBAN	CODE 0021 90% STATE 10% CANTON	CONST. TYPE CODE 0021 90% STATE 10% ABINGDON ITS / SIGNALS URBAN	CONST. TYPE CODE 0021 100% STATE 0% GALESBURG ITS / SIGNALS URBAN	CONST. TYPE CODE 0021 90% STATE 10% GALESBURG ITS / SIGNALS URBAN	CONST. TYPE CODE 0021 90% STATE 10% GOOD HOPE ITS / SIGNALS URBAN	CONST. TYPE CODE 0021 100% STATE 0% MACOMB ITS / SIGNALS URBAN	CONST. TYPE CODE 0021 90% STATE 10% MACOMB ITS / SIGNALS URBAN	CONST. TYPE CODE 0021 80% STATE 20% MACOMB ITS / SIGNALS URBAN			
ITEM CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	O NEXT	ONDAIN	ONDANG	ONDAIN	ONDAIN	ONDAN	ONDAIN		ONDAIN	ONDAN	ONDAIN			
42400100 I	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	170.0	170													
44000600	SIDEWALK REMOVAL	SQ FT	200.0	200													
67100100 I	MOBILIZATION	LSUM	1.0	0.3			0.2	0.1	0.1		0.1		0.2				
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	4670.0	4670.0													
87900200 I	DRILL EXISTING HANDHOLE	EACH	5.0	5.0													
X0320023	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	4.0	4.0													
X0323071	SPARE FULL ACTUATED CONTROLLER, SPECIAL	EACH	10.0	10.0													
X0326266 I	ETHERNET SWITCH	EACH	7.0							7.0							
X0327739 I	MISCELLANEOUS ELECTRICAL WORK	LSUM	1.0	1.0													
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1.0	0.3			0.2	0.1	0.1		0.1		0.2				
X8570215	FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	12.0	3.0						6.0			3.0				
IX8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	7.0				2.0	1.0	1.0		1.0		2.0				
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	7274.0	7274.0													
X8710050 I	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	25.0	9.0	1.0	1.0	5.0	1.0	1.0		1.0	1.0	5.0				
Z0033052 (COMMUNICATIONS VAULT	EACH	5.0	5.0													
Z0033072	VIDEO VEHICLE DETECTION SYSTEM	EACH	2.0										1.0	1.0			

EN\Transfer - bureaus\68G19 - Final Plans\68G19 (Final 02-04-21).c

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -
PLOT DATE = 2/4/2021	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	CLUMANA A DV	05.011			F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SUMMARY	OF QUA	ANTITIES		VAR.	D4 ITS SYSTEM 2021	VARIOUS	15	4
							CONTRACT	NO. 68	3G19
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

		COUNTY			FULT	ON CO	UNTY						KNO	x cou	NTY					I	SHALL JNTY				NOUG	н сои	NTY				MER COU	I	PEORIA COUNTY		WOOI	DFORD	COUN	ITY
		CITY			c	ANTO	V			ABINGDON				GA	LESBUF	RG				LA	CON		ICDONOUGH COUNTY	ĺ		N	IACON	1B			ALE	DO	СНІЦІСОТНІ	EUREKA		IANTO HILLS	WN	METAMORA
SCHEDULE OF QUAN			IL 9 (Locust) & IL 78 (Main) (95/5)	IL 78 (Main) & Lincoln (93.3/6.7)	IL 9 (Fifth) & Chestnut (90/10)	IL 9 (Locust) & First (90/10)	IL 78 (Main) & Ash (90/10)	IL 78 (Main) & Sycamore Terrace (90/10)	IL 78 (Main) & Vine (90/10)	IL 41 (Monroe) & Latimer (90/10)	US 150 (Henderson) & Lake Storey (100/0)	US 150 (Grand) & Farnham (90/10)	US 150 (Main) & Academy (90/10)	US 150 (Main) & Chambers (90/10)	US 150 (Main) & Cherry (90/10)	US 150 (Main) & Grand (90/10)	US 150 (Main) & Kellogg (90/10)	US 150 (Main) & Prairie (90/10)	US 150 (Main) & Seminary (90/10)	IL 17 (Fifth) & IL 26 (Prairie) (100/0)	L 17 (Fifth) & High (90/10)	US 67 (Monmouth) & Main (90/10)	US 67 & IL 9 (100/0)	US 67 (Lafayette) & US 136 (Calhoun) (100/0)	US 67/ US 136 (E. Jackson) & Campbell (90/10)	US 67/ US 136 (E. Jackson) & Prairie (90/10)	US 136 (W. Jackson) & Johnson (90/10)	US 136 (W. Jackson) & Wigwam Hollow (90/10)	US 67/ US 136 (Calhoun) & Campbell (90/10)	US 67/ US 136 (E. Jackson) & Wheeler/ Walmart Entrance (80/20)	IL 94 (Fifth) & IL 17 (Third/Walmart Entrance) (95/5)	IL 94 (College) & IL 17 (Third) (95/5)	. 29 (From Cloverdale Rd. to Truitt Ave.) (100/0)	US 24 (Center) & IL 117 (Main) (100/0)	IL116 & Fandel (90/10)	IL116 & Schmitt (90/10)	IL 116 & Woodland Knolls (90/10)	IL 116 (Mt. Vernon) & IL 89 (Niles) (95/5)
ITEM DESCRIPTION	UNIT	TOTAL QTY.													-									-				_				_	=					
PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	170.0																															170.0					
SIDEWALK REMOVAL	SQ FT	200.0																															200.0					
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	4670.0										_																				_	4670.0					
DRILL EXISTING HANDHOLE	EACH	5.0																															5.0					
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	4.0			1.0															1.0														1.0				1.0
ETHERNET SWITCH	EACH	7.0											1.0	1.0	1.0	1.0	1.0	1.0	1.0																			
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	12.0										1.0		1.0	1.0	1.0		1.0	1.0	1.0	1.0				1.0		1.0		1.0									1.0
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	7.0					1.0		1.0	1.0	1.0											1.0				1.0		1.0										
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	7274.0																															7274.0					
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	25.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	_										1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	1.0	3.0		1.0	1.0	1.0	
COMMUNICATIONS VAULT	EACH	5.0																															5.0					
VIDEO VEHICLE DETECTION SYSTEM	EACH	2.0																										1.0		1.0								
- Dureau.																																						

MODEL: Default FILE NAME: 0:\common\GEN\

 USER NAME
 = hansontj
 DESIGNED
 REVISED

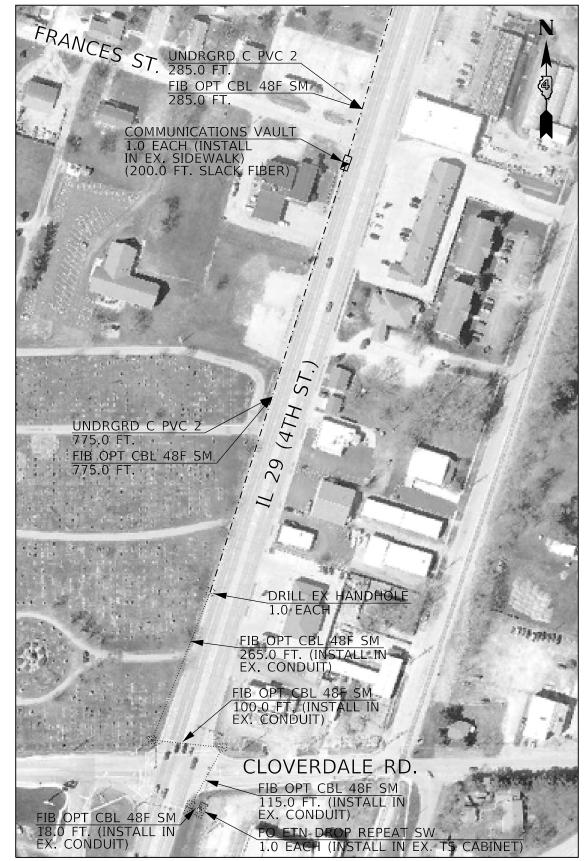
 DRAWN
 REVISED

 PLOT SCALE
 = 165,0762 ' / in.
 CHECKED
 REVISED

 PLOT DATE
 = 2/4/2021
 DATE
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MATCHLINE A



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	34.0
SIDEWALK REMOVAL	SQ FT	40.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1060.0
DRILL EXISTING HANDHOLE	EACH	1.0
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	1831.0
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0
COMMUNICATIONS VAULT	EACH	1.0

LEGEND

EXISTING TRAFFIC SIGNAL CABINET

EXISTING DOUBLE HANDHOLE

EXISTING HANDHOLE

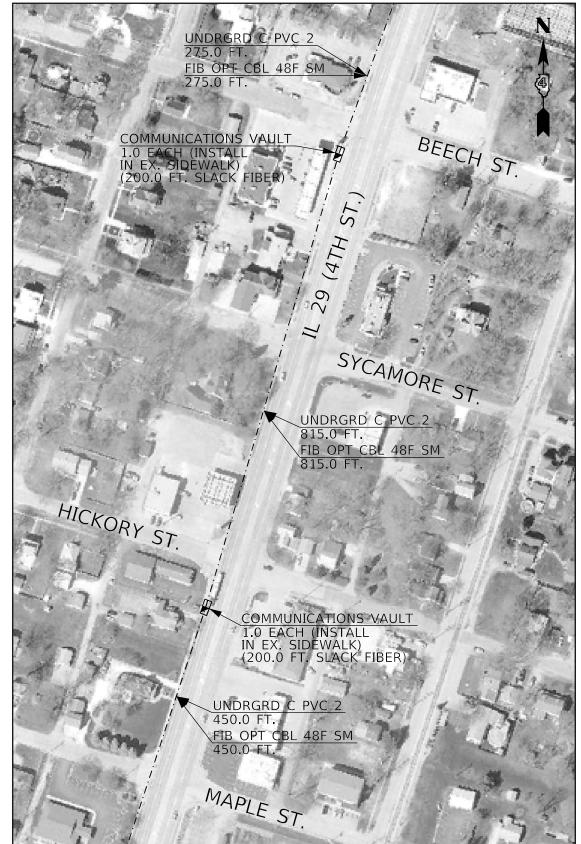
PROPOSED FIBER OPTIC CABLE IN EX. CONDUIT

PROPOSED COMMUNICATIONS VAULT

··- PROPOSED FIBER OPTIC CABLE IN PROP. CONDUIT

REFER TO PLAN SHEET 10 FOR DETAILS ON COMMUNICATIONS VAULT INSTALLATION

USER NAME = hansontj	DESIGNED -	REVISED -			PR∩P∩SI	ED EIREI	R OPTIC	INSTALLATIC	ıNı	F.A.P. BTF	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		11(01/03)			IILLICOTHE	· 1 V	VAR.	D4 ITS SYSTEM 2021	VARIOUS	15 6
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		16 23	9 (4111 5	31.) - CII	IILLICOTTIL				CONTRAC	T NO. 68G19
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	68.0
SIDEWALK REMOVAL	SQ FT	80.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1540.0
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	1940.0
COMMUNICATIONS VAULT	EACH	2.0

LEGEND

PROPOSED COMMUNICATIONS VAULT

··- PROPOSED FIBER OPTIC CABLE IN PROP. CONDUIT

REFER TO PLAN SHEET 10 FOR DETAILS ON COMMUNICATIONS VAULT INSTALLATION

NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -			PP OP OS	ED EIRE	D ODTIC	` INSTALLATI	PROPOSED FIBER OPTIC INSTALLATION F.A.P. RTE.					SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	IL 29 (4TH ST.) - CHILLICOTHE (CONTINUED)						VAR	D4 ITS SYSTEM 2021	VARIOUS	15	7
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 29 (41H St.) - CHILLICOTHE (CC					IL 29 (4111 31.) - CHILLICOTHE (CONTINUED)			CONTRAC	T NO. 6	3G19
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

MATCHLINE A



MAI	CH	LIN	F B
-----	----	-----	-----

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	1075.0
DRILL EXISTING HANDHOLE	EACH	2.0
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	1529.0
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0

LEGEND

EXISTING TRAFFIC SIGNAL CABINET

EXISTING DOUBLE HANDHOLE

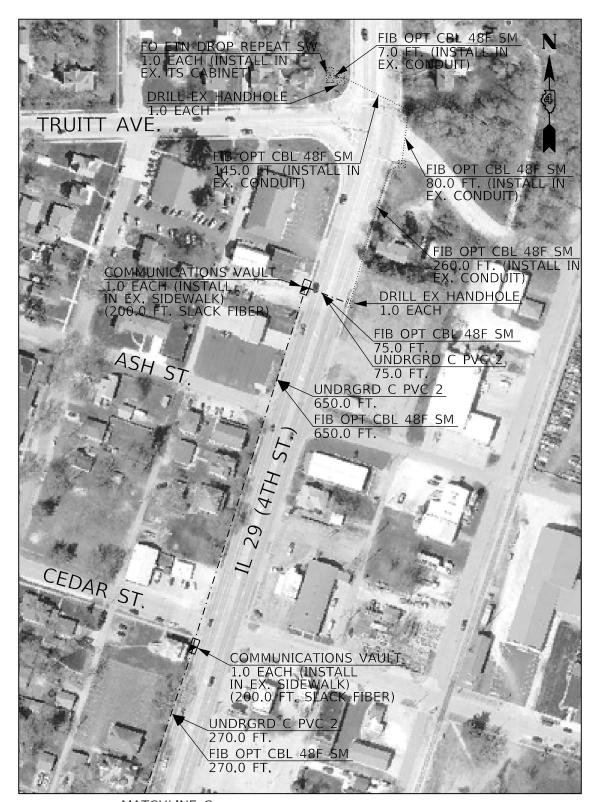
EXISTING HANDHOLE

PROPOSED FIBER OPTIC CABLE IN EX. CONDUIT

··- PROPOSED FIBER OPTIC CABLE IN PROP. CONDUIT

REFER TO PLAN SHEET 10 FOR DETAILS ON COMMUNICATIONS VAULT INSTALLATION

USER NAME = hansontj	DESIGNED -	REVISED -		PROPOSED FIBER OPTIC INSTALLATION						F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS								D4 ITS SYSTEM 2021	VARIOUS	15	8
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL 29 (4TH ST.) - CHILLICOTHE (CONTINUED)							CONTRACT	T NO. 68	8G19
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT		



MATCHLINE C

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	68.0
SIDEWALK REMOVAL	SQ FT	80.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	995.0
DRILL EXISTING HANDHOLE	EACH	2.0
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	1960.0
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0
COMMUNICATIONS VAULT	EACH	2.0

LEGEND

EXISTING TRAFFIC SIGNAL CABINET

EXISTING DOUBLE HANDHOLE

EXISTING HANDHOLE

PROPOSED FIBER OPTIC CABLE IN EX. CONDUIT

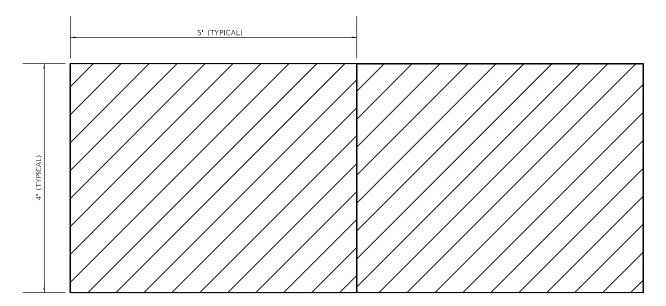
■ PROPOSED COMMUNICATIONS VAULT

··- PROPOSED FIBER OPTIC CABLE IN PROP. CONDUIT

REFER TO PLAN SHEET 10 FOR DETAILS ON COMMUNICATIONS VAULT INSTALLATION

USER NAME = hansontj	DESIGNED -	NED - REVISED - PROPOSED FIRER OPTIC INSTALLATION						PROPOSED FIBER OPTIC INSTALLATION		F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS								D4 ITS SYSTEM 2021	VARIOUS	15	9
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL 29 (4TH ST.) - CHILLICOTHE (CONTINUED)							CONTRAC		8G19
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.					TO STA.		ILLINOIS FED.	AID PROJECT		

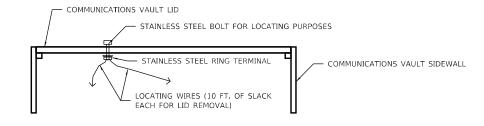
SIDEWALK REMOVAL FOR PROPOSED COMMUNICATIONS VAULT



NOTES

1. THE CONTRACTOR SHALL REMOVE TWO (2) PANELS OF SIDEWALK (40 SQ FT) TO ACCOMODATE PROPOSED HANDHOLE/ COMMUNICATIONS VAULT AND CONDUIT INSTALLATION.

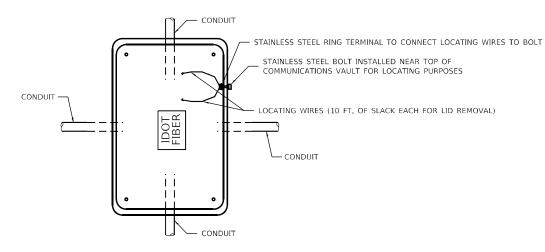
COMMUNICATIONS VAULT LID DETAIL FOR SIDEWALK LOCATIONS



NOTES

1. LOCATING WIRES SHALL BE ACCESSIBLE FROM OUTSIDE COMMUNICATIONS VAULT. THE CONTRACTOR SHALL DRILL A HOLE
THROUGH THE COMMUNICATIONS VAULT LID AWAY FROM THE EDGES AND INSTALL A3/8" STAINLESS STEEL BOLT WITH LOCK NUT
THROUGH THE HOLE. THE CONTRACTOR SHALL ATTACH BOTH OF THE LOCATING WIRES (10 FT. OF SLACK FOR EACH WIRE)
TO THE STAINLESS STEEL BOLT TO PROVIDE EXTERNAL ACCESS TO LOCATING WIRES.

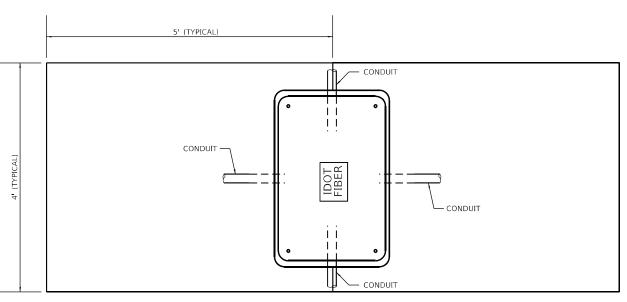
PROPOSED COMMUNICATIONS VAULT INSTALLATION (NON-SIDEWALK)



NOTES

- 1. COMMUNICATIONS VAULT LOCATIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER OF TRAFFIC PRIOR TO INSTALLATION.
- 2. LOCATING WIRES MUST BE ACCESSIBLE FROM OUTSIDE COMMUNICATIONS VAULT. THE CONTRACTOR SHALL DRILL A HOLE THROUGH THE COMMUNICATIONS VAULT SIDEWALL 1" BELOW THE LID AND INSTALL A 3/8" STAINLESS STEEL BOLT WITH LOCK NUT THROUGH THE HOLE. THE CONTRACTOR SHALL ATTACH BOTH OF THE LOCATING WIRES (10 FT. OF SLACK FOR EACH WIRE) TO THE STAINLESS STEEL BOLT TO PROVIDE EXTERNAL ACCESS TO LOCATING WIRES.

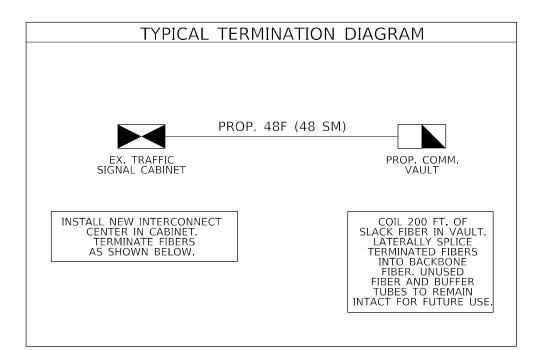
PROPOSED COMMUNICATIONS VAULT INSTALLATION (SIDEWALK)



NOTES:

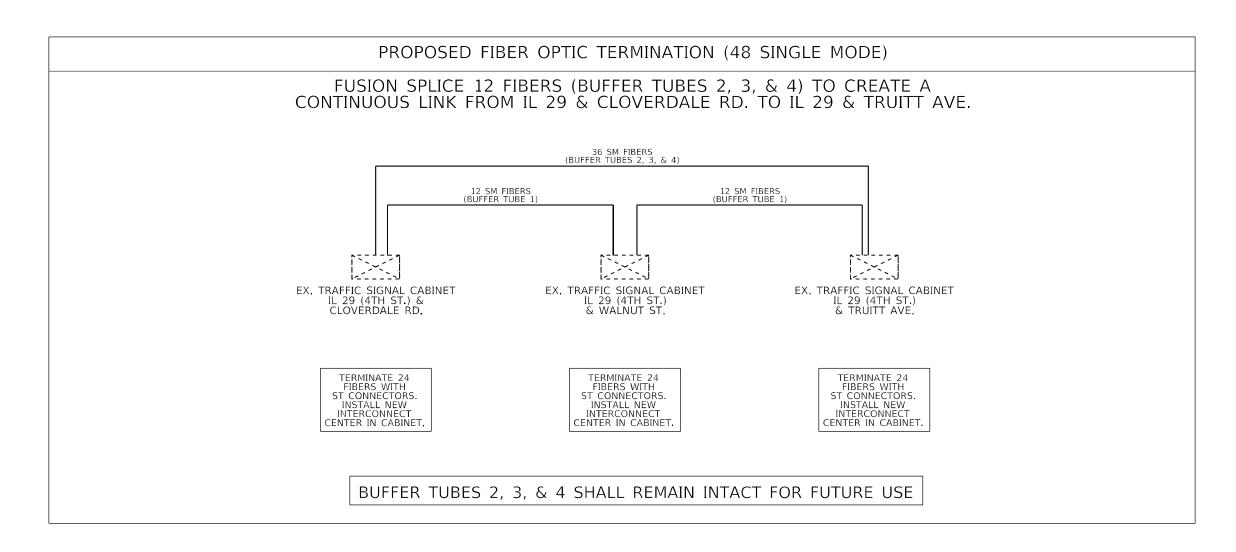
- 1. COMMUNICATIONS VAULT CANNOT BE INSTALLED MONOLITHICALLY WITHIN SIDEWALK.
- 2. COMMUNICATIONS VAULT LOCATIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER OF TRAFFIC PRIOR TO INSTALLATION.
- 3. THE CONTRACTOR SHALL BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL TO PREVENT SETTLEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED COMMUNICATIONS VAULT.
- 4. THE CONTRACTOR SHALL REPLACE TWO PANELS OF PCC SIDEWALK (33.75 SQ FT.)

USER NAME = hansontj	DESIGNED -	REVISED -				F. R			F.A.P.	SECTION	COUNTY	TOTAL SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS	CO	MMUNICA ⁻	ICATIONS VAULT INSTALLATION DETAIL					D4 ITS SYSTEM 2021	VARIOUS	15 10
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION										NO. 68G19
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	



FIBER OPTIC CABLE TERMINATION NOTES (SINGLE MODE FIBER OPTIC CABLE)

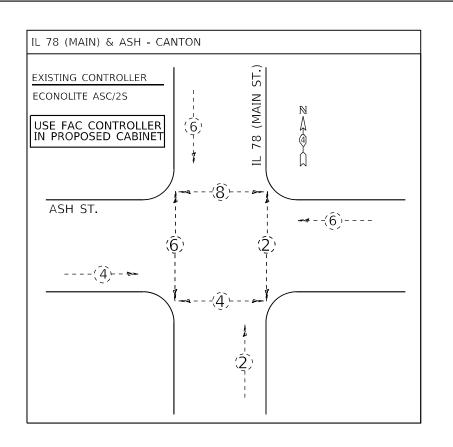
- 1. THE PROPOSED FIBER OPTIC CABLE SHALL BE TERMINATED AS SHOWN ON THE FIBER OPTIC LINE/ TERMINATION DIAGRAM.
- ALL CABLE SPLICES AND TERMINATIONS SHALL BE FUSION SPLICED.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR FIBER OPTIC CABLE TERMINATION, INCLUDING, BUT NOT LIMITED TO, BREAKOUT KITS, FANOUT KITS, ENCLOSURES, WEATHERPROOF SPLICE BOOTS, SPLICE SLEEVES, CONNECTORS, ETC.
- 4. ALL FIBER CONNECTORS SHALL BE FUSION SPLICED UTILIZING PRE-FORMED CABLES WITH CONNECTORS THAT ARE FUSION SPLICED TO THE PROPOSED FIBER.
- ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED FIBER OPTIC CABLE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.
- 6. ALL TERMINATED FIBERS SHALL BE LATERALLY SPLICED INSIDE COMMUNICATION VAULTS AND HANDHOLES.
- 7. ALL UNUSED FIBERS AND BUFFER TUBES SHALL REMAIN INTACT FOR FUTURE USE.

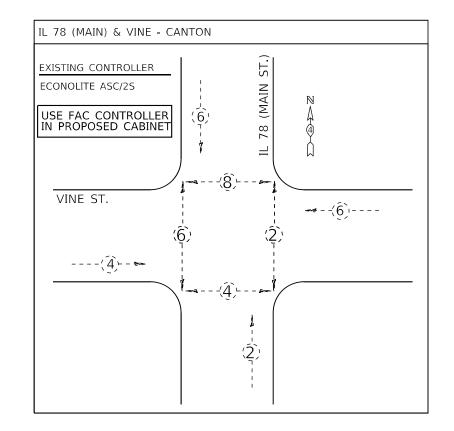


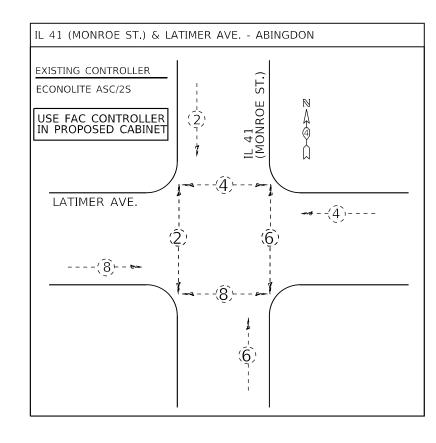
NOT TO SCALE

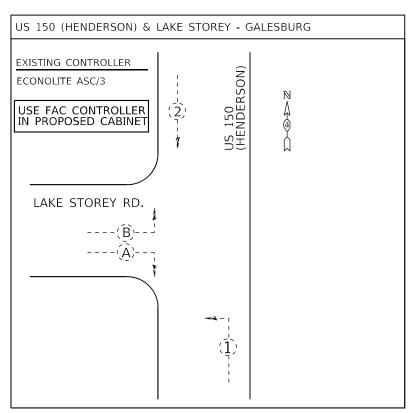
USER NAME = hansontj	DESIGNED -	REVISED -						F.A.P.	SECTION	COUNTY	TOTAL	SHEET		
	DRAWN -	REVISED -	STATE OF ILLINOIS	FIBER OPTIC CABLE TERMINATION DIAGRAM							D4 ITS SYSTEM 2021	VARIOUS	15	11
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	_	8G19
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEE	AID PROJECT		

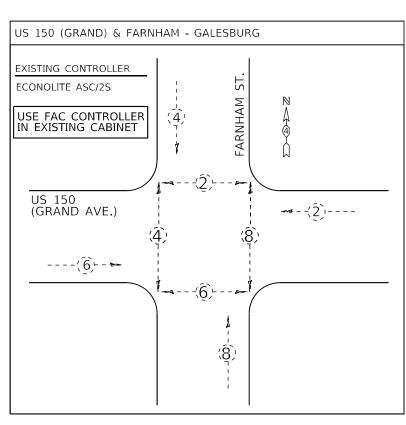
MUDEL: Default FILE NAME: O:\common\GEN\

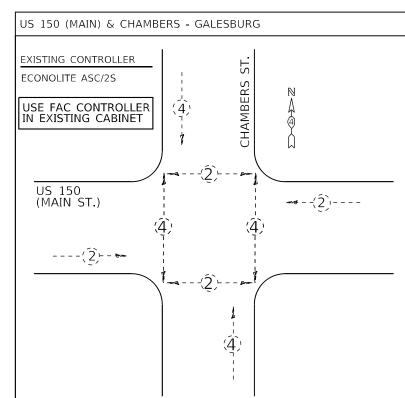












LEGEND

EX. VEHICULAR MOVEMENT

EX. PEDESTRIAN MOVEMENT

NUMBER REFERS TO ASSOCIATED PHASE

REFER TO INSTALLATION NOTES ON SHEET 15

NOT TO SCALE

 USER NAME
 = hansontj
 DESIGNED
 REVISED

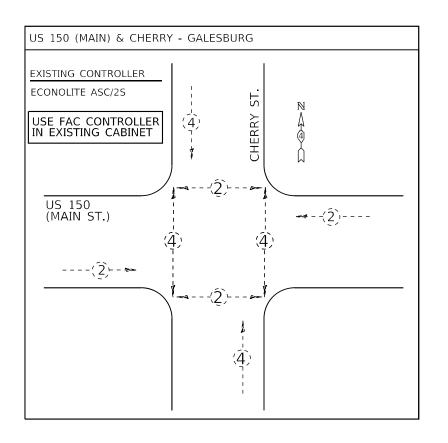
 DRAWN
 REVISED

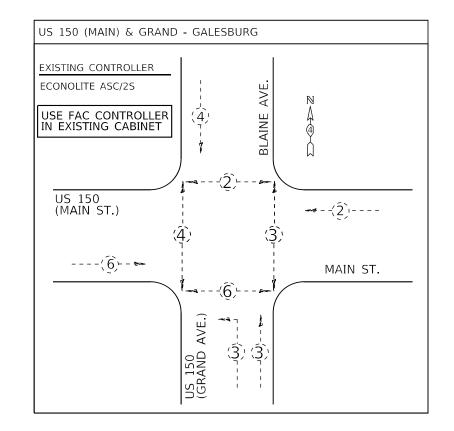
 PLOT SCALE
 = 165,0762 ' / in.
 CHECKED
 REVISED

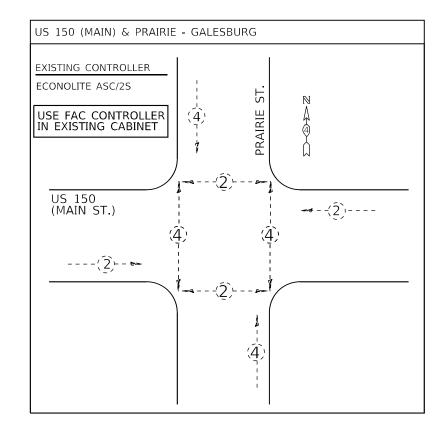
 PLOT DATE
 = 2/4/2021
 DATE
 REVISED

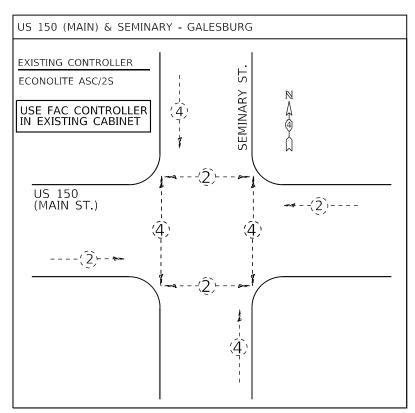
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TRAFFIC SIGNAL CONTROLLER PHASE DIAGRAMS
AND INSTALLATION NOTES

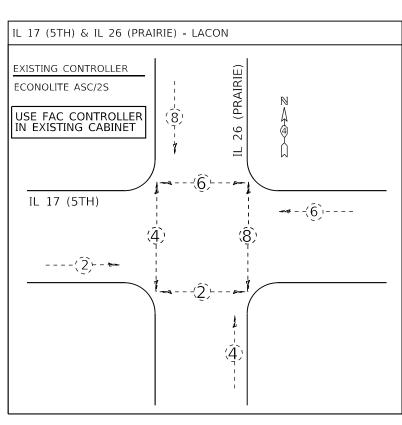
SHEET OF SHEETS STA. TO STA.

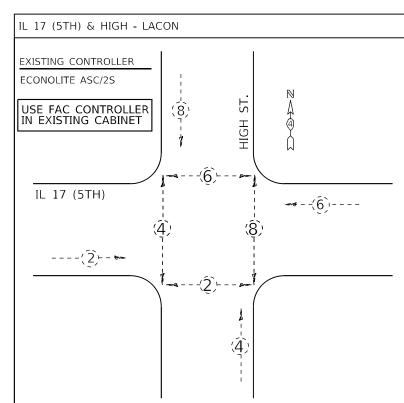












REFER TO INSTALLATION NOTES ON SHEET 15

NOT TO SCALE

 USER NAME
 = hansontj
 DESIGNED
 REVISED

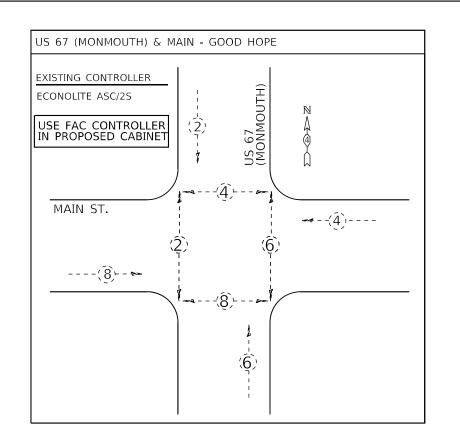
 DRAWN
 REVISED

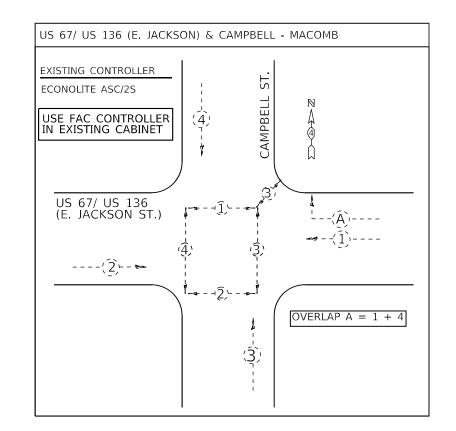
 PLOT SCALE
 = 165,0762 ' / in.
 CHECKED
 REVISED

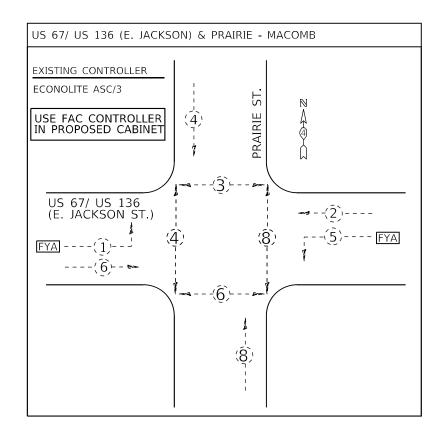
 PLOT DATE
 = 2/4/2021
 DATE
 REVISED

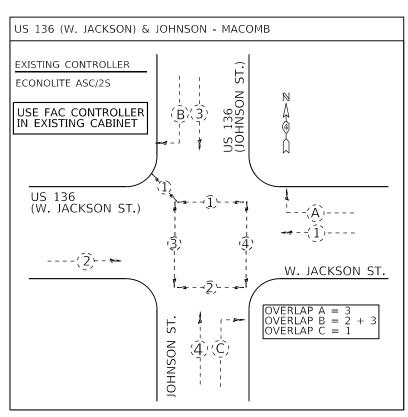
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TRAFFIC SIGNAL CONTROLLER PHASE DIAGRAMS
AND INSTALLATION NOTES - CONTINUED

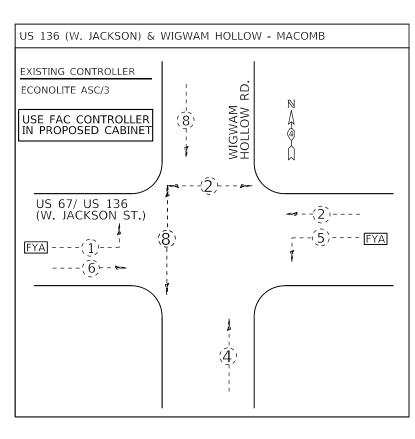
SHEET OF SHEETS STA. TO STA.

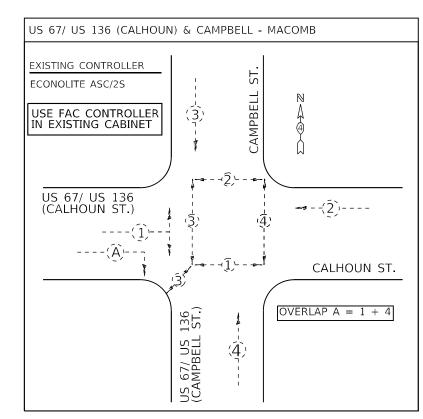










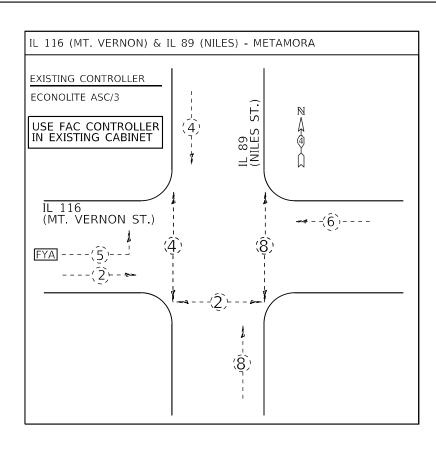


REFER TO INSTALLATION NOTES ON SHEET 15

NOT TO SCALE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED TRAFFIC SIGNAL CONTROLLER PHASE DIAGRAMS
AND INSTALLATION NOTES - CONTINUED

CALE: SHEET OF SHEETS STA. TO STA.



TRAFFIC SIGNAL CONTROLLER/ CABINET CONSTRUCTION STAGING NOTES

- THE CONTRACTOR WILL BE ALLOWED TO PLACE THE INTERSECTION INTO ALL-RED FLASH MODE TO FACILITATE THE INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL CONTROLLERS, CABINETS, AND OTHER COMPONENTS.
- 2. THE CONTRACTOR SHALL FURNISH AND INSTALL A MINIMUM OF TWO STOP SIGNS PER APPROACH WHEN THE INTERSECTION IS OPERATING IN ALL-RED FLASH MODE. THE TRAFFIC SIGNALS MAY BE PLACED INTO ALL-RED FLASH MODE BETWEEN THE HOURS OF 8:30AM AND 3:00PM ONLY.
- THE CONTRACTOR SHALL RESTORE THE TRAFFIC SIGNAL TO NORMAL OPERATION AT ALL OTHER TIMES, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE ENGINEER.
- ALL COSTS (LABOR, MATERIALS, AND EQUIPMENT) ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE SIGNAL CONTROLLER OR SIGNAL CONTROLLER AND CABINET. THERE WILL BE NO ADDITIONAL COMPENSATION FOR ITEMS REQUIRED TO IMPLEMENT STAGING, INCLUDING BUT NOT LIMITED TO TEMPORARY TRAFFIC POSTS, AND PREMIUM TIME HOURS.
- THE CONTRACTOR SHALL VERIFY THE EXISTING CONTROLLER CABINET PHASING, OVERLAPS, AND PREEMPTION (IF APPLICABLE) PRIOR TO RELEASING THE CONTROLLER CABINET.

LEGEND

EX. PEDESTRIAN MOVEMENT NUMBER REFERS TO ASSOCI NUMBER REFERS TO ASSOCIATED PHASE REFER TO INSTALLATION NOTES ON SHEET 15

												NOTT	O JCALL
USER NAME = hansontj	DESIGNED -	REVISED -		DD \ D C	SED TDAFEI	C SIGN.	AL CONTRO	JIIED DHVC	E DIAGRAMS	F.A.P.	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	I KOI C				- CONTINU		VAR.	D4 ITS SYSTEM 2021	VARIOUS	15 15
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		AND INS	IALLAII	ION NOTES	- CONTINU	בט				NO. 68G19
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS S	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	