01-18-2019 LETTING ITEM 108 INDEX OF SHEETS

SEE SHEET 2 FOR INDEX OF SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION 17TS-1; 35TS; 36TS-3

TAZEWELL COUNTY

C-94-018-19

HIGHWAY STANDARDS

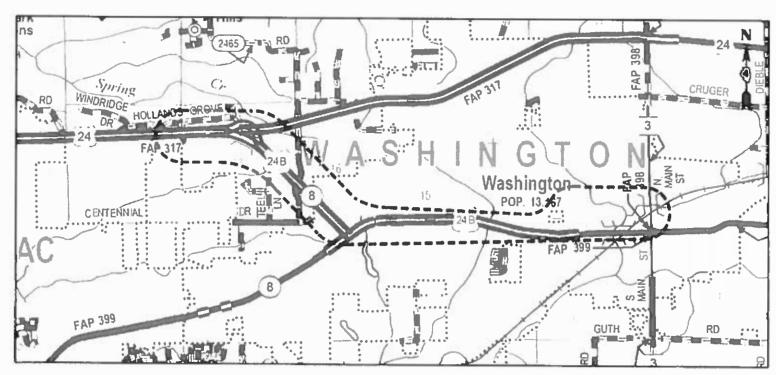
SEE SHEET 2 FOR A LIST OF APPLICABLE HIGHWAY **STANDARDS**

PROJECT DESCRIPTION

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INSTALLATION OF FIBER OPTIC CABLE, DUCT, COMMUNICATION VAULTS AND CCTV CAMERAS AT VARIOUS LOCATIONS AROUND THE CITY OF WASHINGTON LOCATED IN TAZEWELL COUNTY.



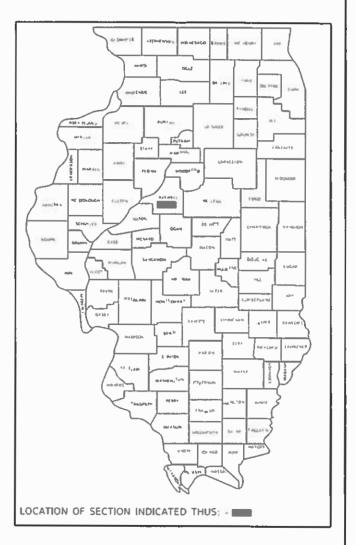
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

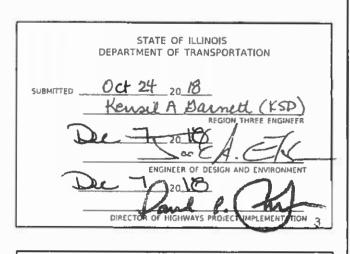
PROJECT ENGINEER: ERIC HOWALD (309) 671-4481 PROJECT MANAGER: BEN TELLEFSON (309) 671-4477

CATALOG NO. 035679-00D CONTRACT NO. 68E78

17TS-1 35TS, 36TS-3

D-94-014-19





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

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6	PROPOSED FIBER, CCTV AND CONDUIT INSTALLATION: BUS 24/ IL 8 (MCCLUGAGE
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7	PROPOSED FIBER, CCTV AND CONDUIT INSTALLATION: US 24 & GRANGE RD. AND
,	US 24 & BUS 24/ IL 8 INTERCHANGE
8	PROPOSED FIBER INSTALLATION: BUS 24 (WASHINGTON RD.) - IL 8 (MCCLUGAGE
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	MT. VERNON DR.
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12	PROPOSED FIBER, CCTV AND CONDUIT INSTALLATION: WILMOR RD. & JEFFERSON
	ST. AND JEFFERSON ST. FROM WILMOR RD. TO WASHINGTON POLICE DEPT.
13	FIBER OPTIC CABLE TERMINATION DIAGRAM
14	CLOSED CIRCUIT TELEVISION CABINET DETAIL
15	COMMUNICATIONS VAULT AND HANDHOLE INSTALLATION DETAIL

	HIGHWAY STANDARDS
STANDARD	
001006	DECMINAL OF AN INCH AND OF A FOOT
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701456-05	PARTIAL EXIT RAMP CLOSURE, FREEWAY / EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES
830021-03	LIGHT POLE STEEL TENON TOP
836001-04	LIGHT POLE FOUNDATION
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >/= 45 MPH

FIBER OPTIC CABLE SLACK

HANDHOLE: 10.0 FT.

DOUBLE HANDHOLE: 30.0 FT.

COMMUNICATIONS VAULT: 100.0 FT.

JUNCTION BOX: 10.0 FT.

ITS OR SIGNAL CABINET: 10.0 FT.

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ſ	FILE NAME =	USER NAME = SUSER\$	DESIGNED -	REVISED					F.A.P.	SECTION	COUNTY	TOTAL SHEET	
	\$FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS COMMITMENTS, INDEX OF SHEETS, AND HIGHWAY STANDARDS US 24	COMMITMENTS, INDEX OF SHEETS, AND HIGHWAY STANDARDS				STATE OF ILLINOIS COMMITMENTS INDEX OF SHEETS AND HIGHWAY STANDARDS		TAZWELL	15 2
		PLOT SCALE = SSCALES	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION				(VAR), BUS 24	17TS-1; 35TS; 36TS-3	CONTRAC	CT NO. 68E78	
		PLOT DATE = SDATE\$	DATE	REVISED		SCALE:		STA TO STA		ILLINOIS	FED. AID PROJECT		

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 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 HANDHOLES, COMMUNICATION VAULTS, CAMERA POLES AND JUNCTION BOXES 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.
- 6. THE CONTRACTOR SHALL PROVIDE FIBER OPTIC CABLE SLACK IN ACCORDANCE WITH THE TABLE PROVIDED IN THE PLANS.
- 7. | ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 871.05 & 871.06.
- POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEMS.
- 9. REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS FOR UTILITY LOCATING PURPOSES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEMS.
- 10. THERE SHALL BE NO ADDITIONAL SPLICES IN THE FIBER OPTIC CABLE EXCEPT WHERE NOTED IN THE PLANS, OR UPON APPROVAL OF THE TRAFFIC ENGINEER.
- 11. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 12. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
- 13. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN THE REQUIRED MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- 14. 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 PRICES FOR THE CONDUITS.
- 15. PCC HANDHOLES AND COMMUNICATIONS VAULTS SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
- 16. 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, TRAFFIC SIGNAL CABINETS, AND CCTV CABINETS. THE COST OF FURNISHING AND INSTALLING THE TRACER WIRE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE PAY ITEM "FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE."
- 17. ALL COMMUNICATION DUCT SHALL BE INSTALLED AND PAID FOR IN ACCORDANCE WITH SECTION 810 "UNDERGROUND RACEWAYS" OF THE STANDARD SPECIFICATIONS.
- 18. THE LOCATION OF THE PROPOSED CONDUIT AS SHOWN ON THE PLAN SHEETS IS APPROXIMATE AND NOT DRAWN TO SCALE. CONDUIT INSTALLED ALONG ROADWAYS SHALL BE LOCATED A MAXIMUM OF 10 FT. FROM THE EDGE OF THE R.O.W. UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER. THE CONDUIT SHALL BE INSTALLED AT A 24" MINIMUM DEPTH EXCEPT WHEN CROSSING WATERWAYS AND DRAINAGE FLOW LINES WHERE IT SHALL BE INSTALLED AT A 60" DEPTH.
- 19. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO ATTACH THE CONDUITS AND JUNCTION BOXES TO THE STRUCTURES, INCLUDING, BUT NOT LIMTED TO UNI-STRUT, BRACKETS, SEAL-TITE, LBS, FITTINGS, HARDWARE, AND OTHER MISCELLANEOUS ITEMS. THESE ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID UNIT PRICE FOR THE CONDUIT ATTACHED TO STRUCTURE PAY ITEM.
- 20. ALL CONDUIT ATTACHMENT BRACKETS AND HARDWARE SHALL BE STAINLESS STEEL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING FIELD TILE, UNDERDRAIN, AND 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.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING, BRUSH AND SHRUB REMOVAL, AND SMALL TREE (10" DIAMETER OR LESS) REMOVAL REQUIRED TO INSTALL THE PROPOSED CONDUIT AND COMMUNICATION VAULTS. THE CONTRACTOR SHALL DISPOSE OF ALL REMOVED ITEMS OFF OF THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICES FOR THE CONDUIT PAY ITEM.
- 23. THE CONTRACTOR SHALL PLAN AND CONDUCT CONDUIT AND FIBER INSTALLATION OPERATIONS TO MINIMIZE THE NUMBER OF ROAD LANE CLOSURES AND TO MINIMIZE TRAFFIC DISRUPTIONS AND DELAYS FOR THE MOTORING PUBLIC.
- 24. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR INSTALLING COMMUNICATIONS DUCT AND COMMUNICATION VAULTS UNDER AND ALONG STATE, COUNTY AND TOWNSHIP ROADWAYS.
- 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.
- 26 ALL CAMERAS SHALL BE INSTALLED AT A MINIMUM MOUNTING HEIGHT OF 43 FT.

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- 27. THE COST OF INSTALLING THE PROPOSED CONDUITS INTO METAL LIGHT POLE FOUNDATIONS SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT PAY ITEMS.
- 28. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS BY GRADING AND SEEDING. THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED CONDUIT.
- 29. THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE CONDUIT AND ELECTRICAL CABLE IN LIEU OF THE UNIT DUCT PAY ITEMS AT NO ADDITIONAL COMPENSATION.
- 30. THE DEPARTMENT WILL SUPPLY ONE LIGHT POLE AND CCTV CABINET FOR INSTALLATION AT THE INTERSECTION OF WILMOR & JEFFERSON AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL HARDWARE REQUIRED TO INSTALL THE LIGHT POLE AND CCTV CABINET IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE MISCELLANEOUS ELECTRICAL WORK PAY ITEM.
- 31. THE CONTRACTOR SHALL INSTALL CAPS OVER THE TENON MOUNT BRACKETS TO PREVENT WATER INTRUSION ON THE PROPOSED LIGHT POLES THAT ARE BEING UTILIZED AS CAMERA POLES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR THE PROPOSED LIGHT POLES.
- 32. THE CONTRACTOR SHALL REMOVE THE SHEATHING ON THE UNIT DUCT WHEN ROUTING THROUGH HANDHOLES, JUNCTION BOXES, AND COMMUNICATIONS VAULTS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED UNIT DUCT.
- 33. ALL TERMINATED FIBERS SHALL BE LATERALLY SPLICED INSIDE COMMUNICATION VAULTS AND HANDHOLES. ALL UNUSED FIBERS AND BUFFER TUBES SHALL REMAIN INTACT FOR FUTURE USE.
- 34. THE COST OF THE WALL PENETRATION AT THE WASHINGTON POLICE DEPARTMENT SHALL BE INCLUDED IN THE COST OF THE STAINLESS STEEL JUNCTION BOX.

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	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
CONSTRUCTION NOTES	US 24	17TS-1; 35TS; 36	TC 2	TAZWELL	15	3
	BUS 24	1713-1, 3313, 30	713-3	CONTRA	CT NO.	58E78
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	S			TAZEWELL COUNTY CONST. TYPE CODE 0021 (100% STATE HOMELAND SECURITY FUNDS)	
CODE		ITEM DESCRIPTION	UNIT	TOTAL QTY.	URBAN
4240010	PORTLAND CEMENT CONCRETE SIDE	NALK 4 INCH	SQ FT	374.0	374.0
4400060	SIDEWALK REMOVAL		SQ FT	440.0	440.0
6710010	MOBILIZATION		L SUM	1.0	1.0
8102835	UNDERGROUND CONDUIT, PVC, 2" D	IA.	FOOT	17461.0	17461.0
8130055	JUNCTION BOX, STAINLESS STEEL, A	TTACHED TO STRUCTURE, 12"X12"X6"	EACH	1.0	1.0
8140070	HANDHOLE, PORTLAND CEMENT CON	CRETE	EACH	7.0	7.0
8160304	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.	D.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	975.0	975.0
8170213	ELECTRIC CABLE IN CONDUIT, 600V	(XLP-TYPE USE) 1/C NO. 6	FOOT	1586.0	1586.0
8306083	LIGHT POLE, GALVANIZED STEEL, 45	FT. M.H., TENON MOUNT	EACH	1.0	1.0
8360036	LIGHT POLE FOUNDATION, METAL, 15	" BOLT CIRCLE, 10" X 6'	EACH	2.0	2.0
8730190	ELECTRIC CABLE IN CONDUIT, EQUIP	MENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	783.0	783.0
8790020	DRILL EXISTING HANDHOLE		EACH	5.0	5.0
X032459	CLOSED CIRCUIT TELEVISION CABINE	Т	EACH	1.0	1.0
X032460	CIRCUIT BREAKER, 1-POLE, 20 AMP,	120V IN EXISTING TSC CABINET	EACH	2.0	2.0
X032625	COMPUTER WORKSTATION		EACH	2.0	2.0
X032625	LCD MONITOR		EACH	2.0	2.0
X032681	CAT 5 ETHERNET CABLE		FOOT	649.0	649.0
X032690	CLOSED CIRCUIT TELEVISION DOME (CAMERA, IP BASED	EACH	5.0	5.0
X032773	MISCELLANEOUS ELECTRICAL WORK		L SUM	1.0	1.0
X701021	TRAFFIC CONTROL AND PROTECTION	, (SPECIAL)	L SUM	1.0	1.0
X811045	CONDUIT ATTACHED TO STRUCTURE	, 1 1/2" DIA., STAINLESS STEEL	FOOT	5.0	5.0
X813011	JUNCTION BOX (SPECIAL)		EACH	1.0	1.0
X8710030	FIBER OPTIC CABLE 48 FIBERS, SING	LE MODE	FOOT	27559.0	27559.0
X871005	FIBER OPTIC ETHERNET DROP AND F	EPEAT SWITCH	EACH	6.0	6.0
Z003305	COMMUNICATIONS VAULT		EACH	14.0	14.0
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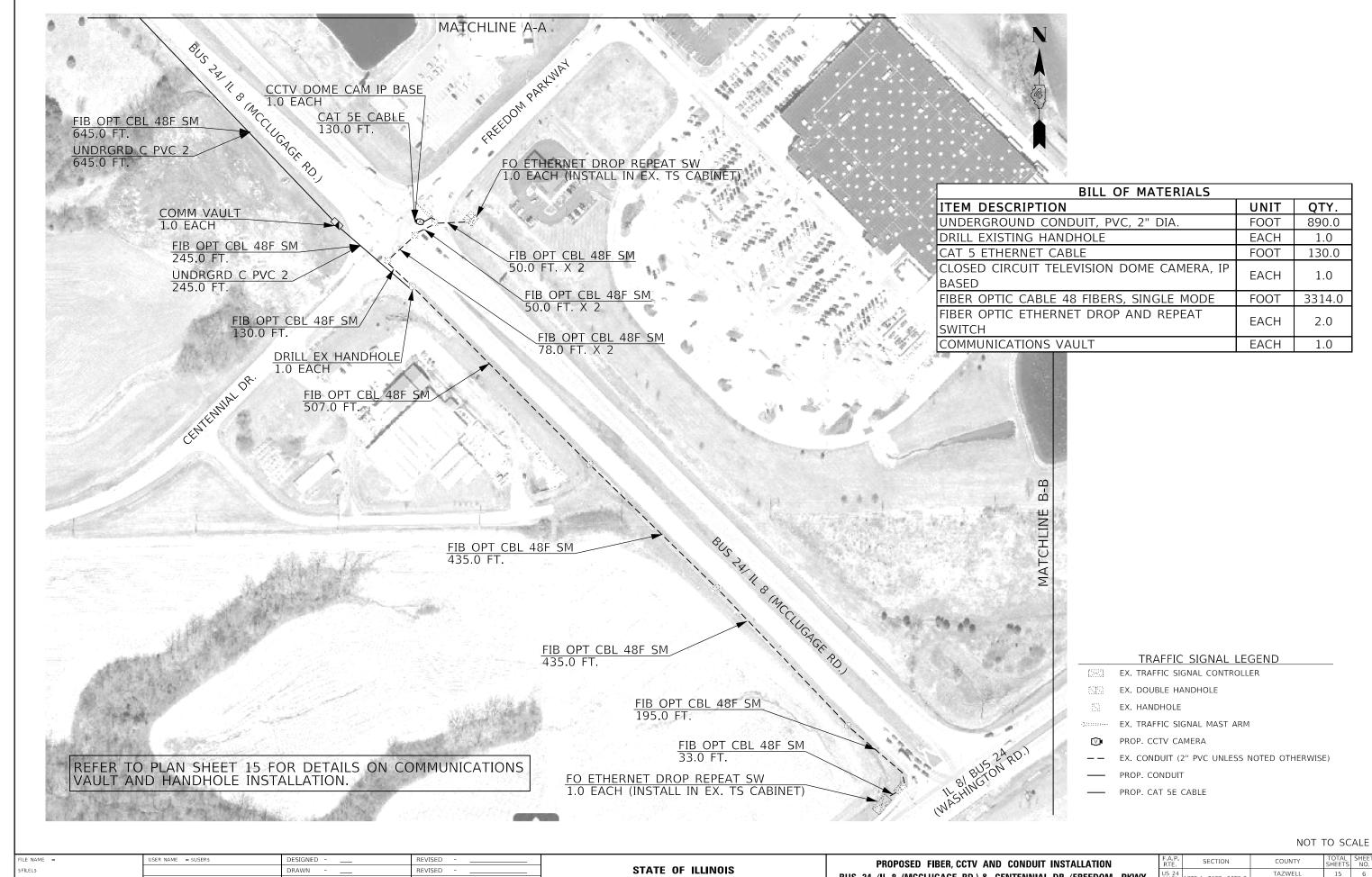
	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES		17TS-1: 35TS: 36TS-3	TAZWELL	15	4
		1713-1, 3313, 3013-3	CONTRAC	T NO. 6	8E78
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CODE	SCHEDULE OF QUANTITIES	Luxur	TOTAL QTY.	BUS 24/ IL 8 (MCCLUGAGE) & CENTENNIAL / FREEDOM	US 24 & GRANGE AND US 24 & BUS 24/ IL 8 INTERCHANGE	(MCCLLICACE)	BUS 24 (WASHINGTON) - CUMMINGS TO MT. VERNON	BUS 24 (PEORIA) - COMMERCIAL ENTR. TO EAGLE	BUS 24 (PEORIA) - MULLER TO WILMOR	WILMOR & JEFFERSON AND JEFFERSON FROM WILMOR TO WASHINGTON POLICE DEPT.
CODE	ITEM DESCRIPTION	UNIT								FOLICE DEFT.
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	374.0					136.0	68.0	170.0
44000600	SIDEWALK REMOVAL	SQ FT	440.0					160.0	80.0	200.0
67100100	MOBILIZATION	L SUM	1.0	0.1	0.2	0.1 6.5	0.1	0.1	0.2	0.2
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	17461.0	890.0	7550.0	0.5		3080.0	2096.0	3845.0
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"X12"X6"	EACH	1.0							1.0
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	7.0					2.0	2.0	3.0
81603040	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	975.0		975.0					
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1586.0						1356.0	230.0
83060830	LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT	EACH	1.0		1.0					
83600360	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 6'	EACH	2.0		1.0					1.0
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C		783.0						658.0	125.0
87900200	DRILL EXISTING HANDHOLE	EACH	5.0	1.0	1.0			1.0	2.0	
X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	1.0		1.0					
X0324603	CIRCUIT BREAKER, 1-POLE, 20 AMP, 120V IN EXISTING TSC CABINET	EACH	2.0		1.0				1.0	
X0326252	COMPUTER WORKSTATION	EACH	2.0							2.0
X0326253	LCD MONITOR	EACH	2.0							2.0
X0326812	CAT 5 ETHERNET CABLE	FOOT	649.0	130.0	191.0				283.0	45.0
X0326905	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	5.0	1.0	2.0				1.0	1.0
X0327739	MISCELLANEOUS ELECTRICAL WORK	L SUM	1.0							1.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.1	0.2	0.1	0.1	0.1	0.2	0.2
X8110456	K8110456 CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., STAINLESS STEEL		5.0							5.0
X8130110	30110 JUNCTION BOX (SPECIAL)		1.0		1.0					
X8710030	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	27559.0	3314.0	8227.0	2453.0	3224.0	3825.0	2216.0	4300.0
X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	6.0	2.0	2.0				1.0	1.0
Z0033052	COMMUNICATIONS VAULT	EACH	14.0	1.0	8.0			2.0		3.0
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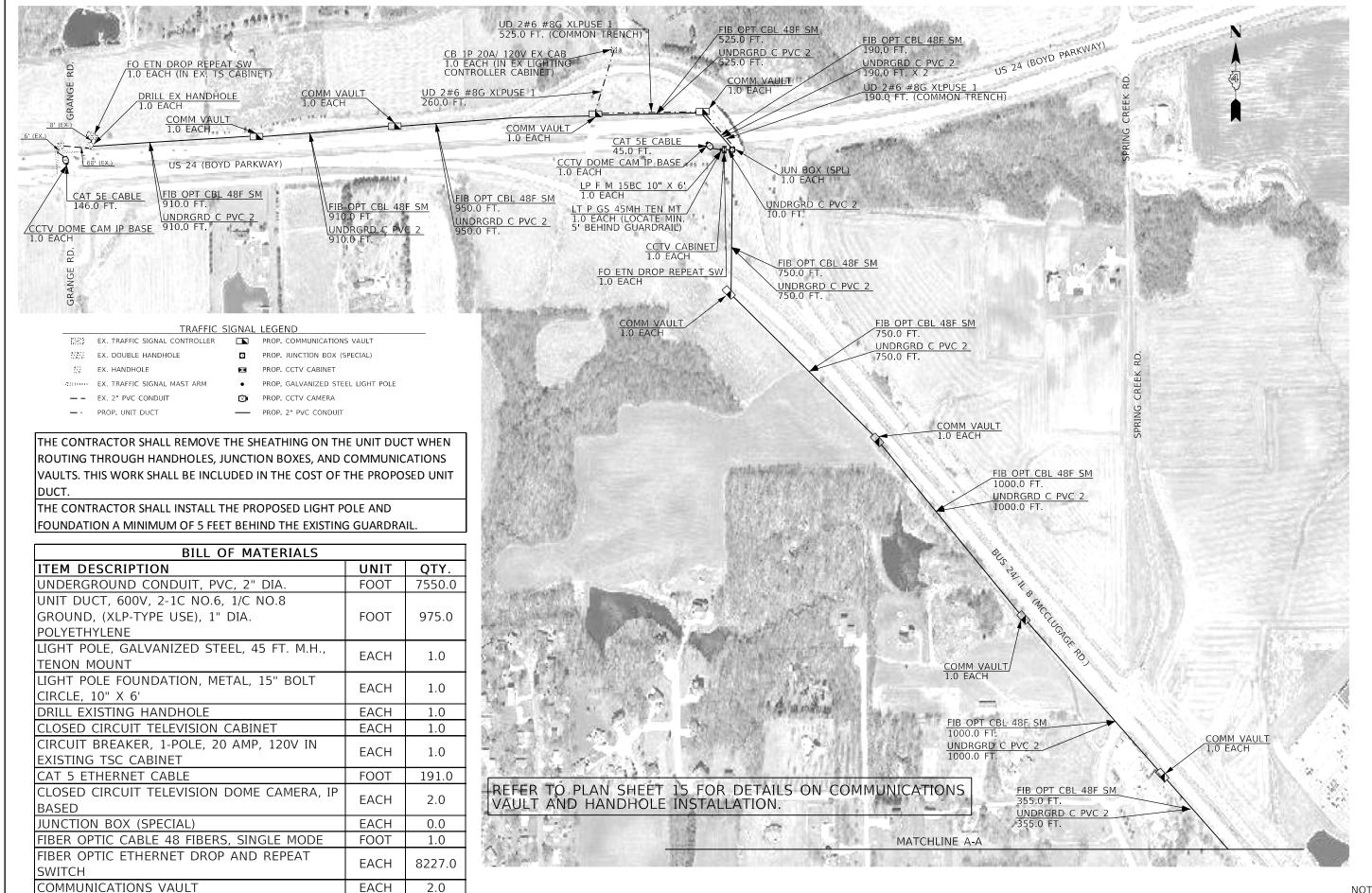
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	F.A.P. RTE	SECTION	
SCHEDULE OF QUANTITIES		17TS-1: 35TS: 36TS-3	
		1,131, 3313, 3013	
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FILE NAME = SFILELS	USER NAME = SUSER\$	DRAWN -	REVISED -	STATE OF ILLINOIS	PROPOSED FIBER, CCTV AND CONDUIT INSTALLATION US 24 & GRANGE RD. AND US 24 & BUS 24 /IL 8 INTERCHANGE			SECTION	TAZWELL	SHEETS NO. 15 7
	PLOT SCALE = SSCALES PLOT DATE = SDATES	DATE	REVISED	DEPARTMENT OF TRANSPORTATION	SCALE:	STA TO STA	BŮŚ 24	ILLINOIS	CONTR	RACT NO. 68E78



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	2453.0

TRAFFIC SIGNAL LEGEND

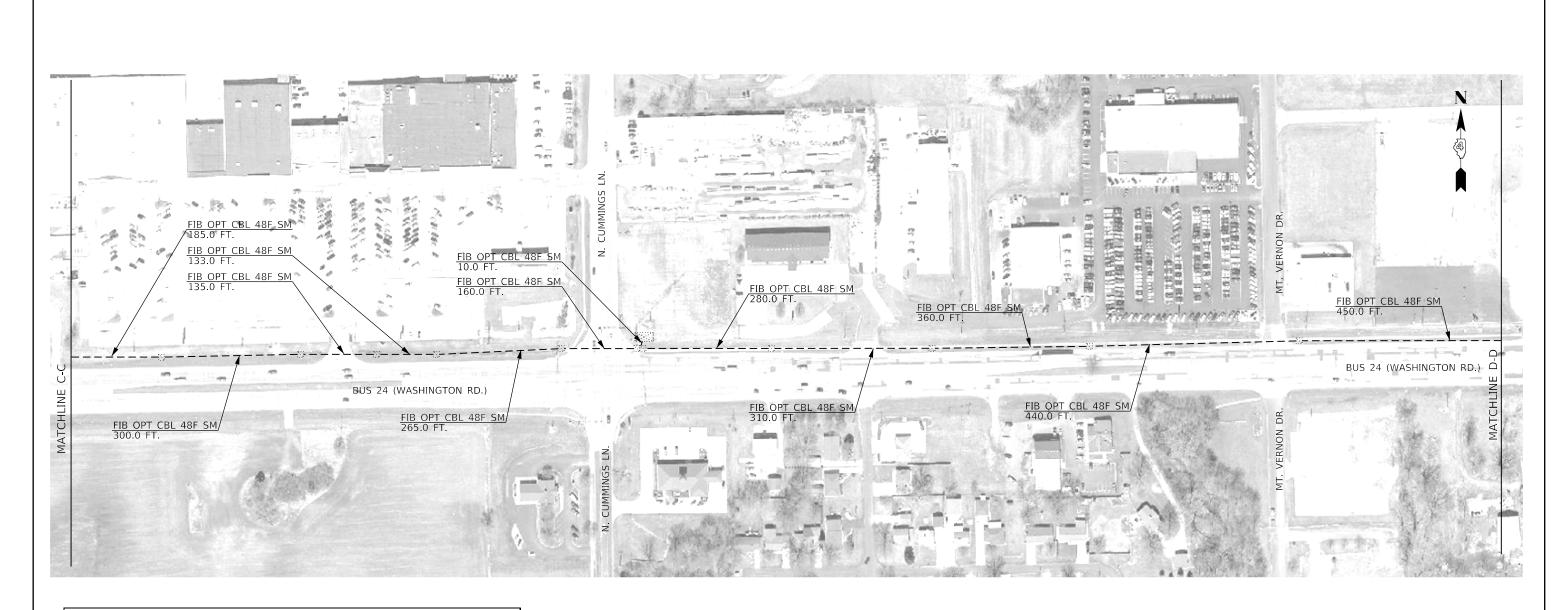
EX. TRAFFIC SIGNAL CONTROLLER

EX. DOUBLE HANDHOLE

EX. HANDHOLE

-- EX. 2" CONDUIT (2" PVC UNLESS NOTED OTHERWISE)

FILE NAME =	USER NAME = SUSER\$	DESIGNED	REVISED			PROPOSED FIBER INS	STALLATION	F.A.P. SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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	PLOT SCALE = SSCALES	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION			.UGAGE KD.) IU LAKESHUKE DK.	(VAR), 17TS-1, 35TS, 36TS-3 BUS-24	CONTR/	ACT NO. 68E78
	PLOT DATE = SDATE\$	DATE	REVISED		SCALE:		STA TO STA	ILLINOIS	FED. AID PROJECT	



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	3224.0

TRAFFIC SIGNAL LEGEND

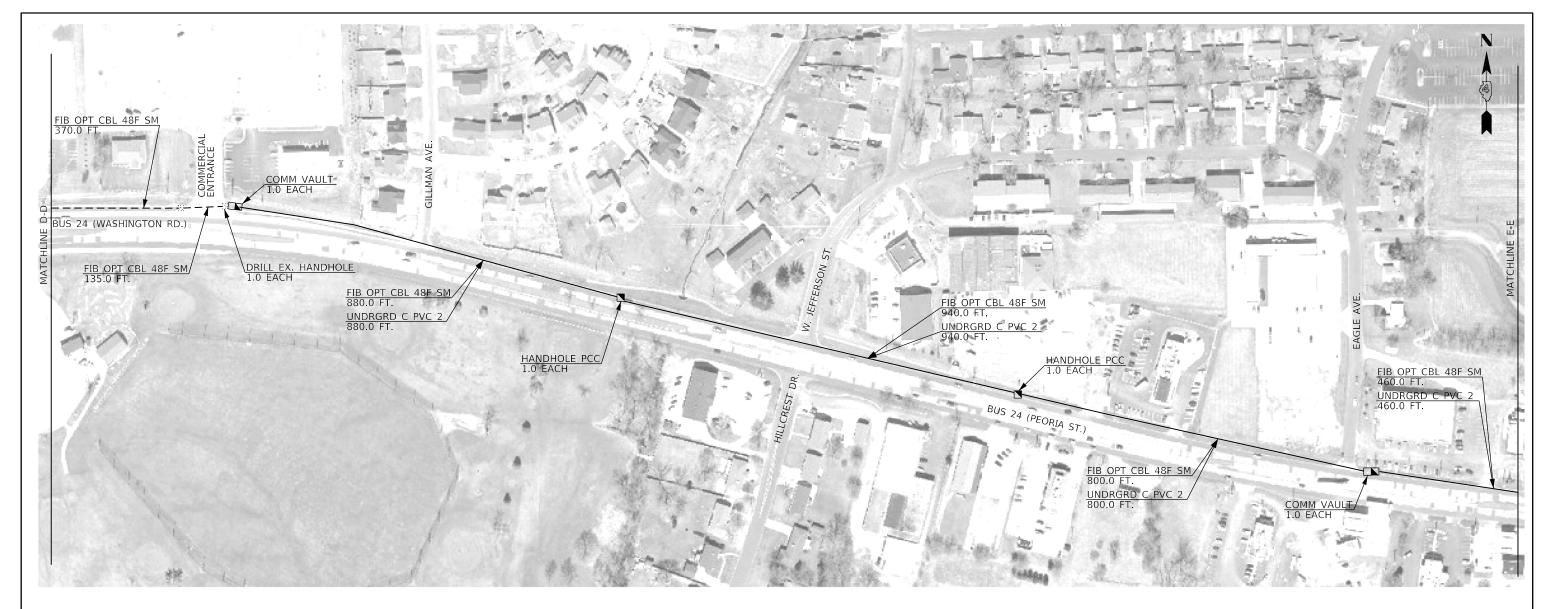
EX. TRAFFIC SIGNAL CONTROLLER

EX. DOUBLE HANDHOLE

EX. HANDHOLE

-- EX. CONDUIT (2" PVC UNLESS NOTED OTHERWISE)

FILE NAME =	USER NAME = SUSER\$	DESIGNED	REVISED		PROPOSED FIBER INSTALLATION BUS 24 (WASHINGTON RD.) – CUMMINGS LN. TO MT. VERNON		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEE' SHEETS NO
\$FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS			TATE OF ILLINOIS DUS 24 (MASHINICTON DD.) CHMMMINICS IN TO MT VEDNON DD. US 24 (1995)	7TC 1, 25TC, 26TC 2	TAZWELL	15 9
	PLOT SCALE = SSCALES	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION	DO3 24 (VV)	ASIMINATON ND./ - COMMININAS LIN. TO WIT. VERNION DR.	BUS 24	/15-1; 3313; 3613-3	CONTRA	ACT NO. 68E78
	PLOT DATE = SDATE\$	DATE	REVISED -		SCALE:	STA TO STA		ILLINOIS	FED. AID PROJECT	



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	136.0
SIDEWALK REMOVAL	SQ FT	160.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	3080.0
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2.0
DRILL EXISTING HANDHOLE	EACH	1.0
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	3825.0
COMMUNICATIONS VAULT	EACH	2.0

REFER TO PLAN SHEET 15 FOR DETAILS ON COMMUNICATIONS VAULT AND HANDHOLE INSTALLATION.

TRAFFIC SIGNAL LEGEND

EX. HANDHOLE

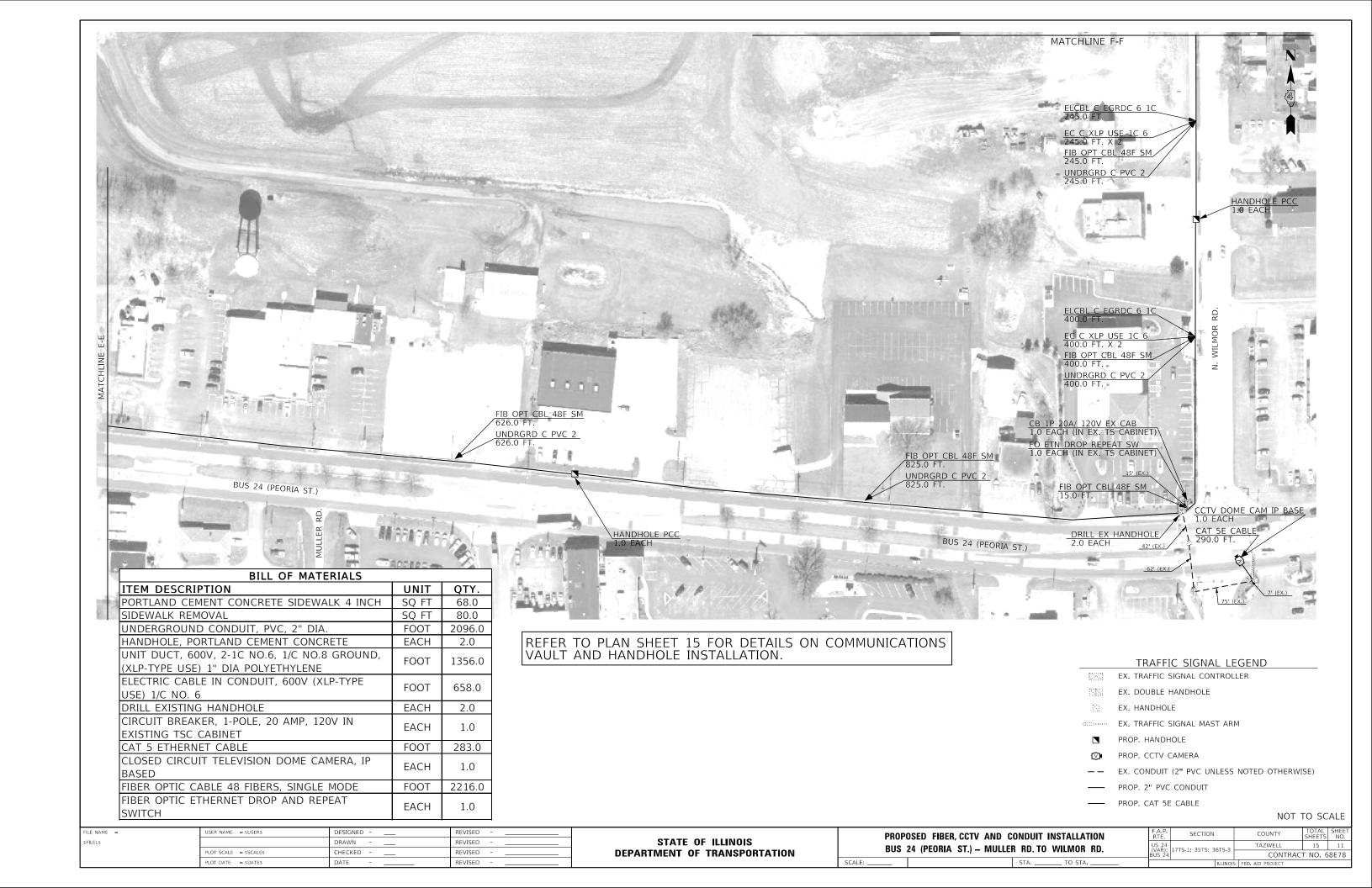
■ PROP. HANDHOLE

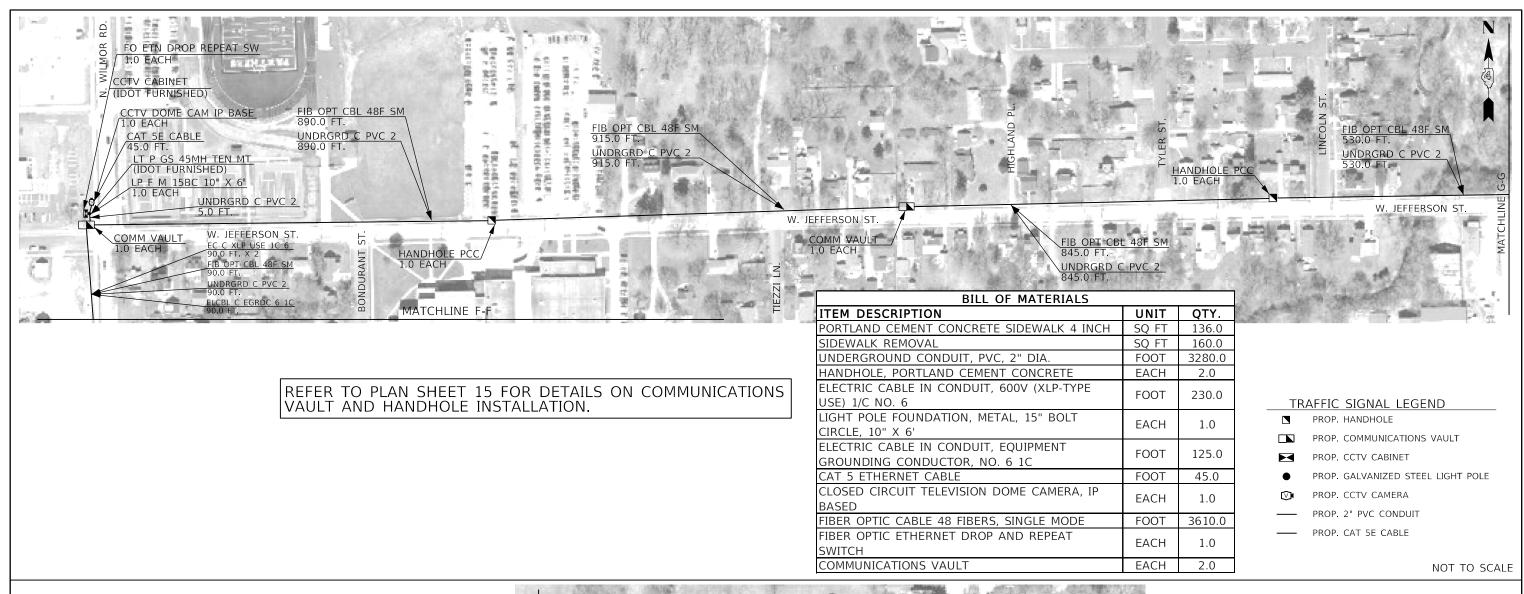
PROP. COMMUNICATIONS VAULT

PROP. 2" PVC CONDUIT

-- EX. CONDUIT (2" PVC UNLESS NOTED OTHERWISE)

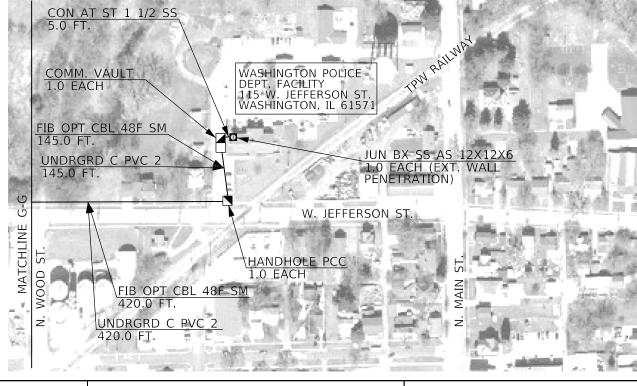
FILE NAME =	USER NAME = SUSER\$	DESIGNED	REVISED		PROPOSED FIBER AND CONDUIT INSTALLATION RUS 24 (PEORIA ST.) - COMMERCIAL ENTRANCE TO FAGIE AVE		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO
\$FILEL\$		DRAWN	REVISED -	STATE OF ILLINOIS	BUS 24 (PEORIA ST.) – COMMERCIAL ENTRANCE TO EAGLE AVE.		US 24	17TS 1 35TS 36TS 3	TAZWELL	15 10
	PLOT SCALE = SSCALES	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION			BUS 24	1/13-1, 3313, 3013-3	CONTR	₹ACT NO. 68E78
	PLOT DATE = SDATE\$	DATE	REVISED -		SCALE:	STA TO STA		ILLINOIS	FED. AID PROJECT	





REFER TO PLAN SHEET 15 FOR DETAILS ON COMMUNICATIONS VAULT AND HANDHOLE INSTALLATION.

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	565.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO	FACH	1.0
STRUCTURE, 12"X12"X6"	LACII	1.0
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0
COMPUTER WORKSTATION	EACH	2.0
LCD MONITOR	EACH	2.0
CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA.,	FOOT	5.0
STAINLESS STEEL	1001	٥.٥
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	690.0
COMMUNICATIONS VAULT	EACH	1.0



TRAFFIC SIGNAL LEGEND

PROP. HANDHOLE

PROP. COMMUNICATIONS VAULT

PROP. JUNCTION BOX (ATTACHED TO STRUCTURE)

— PROP. 2" PVC CONDUIT

NOT TO SCALE

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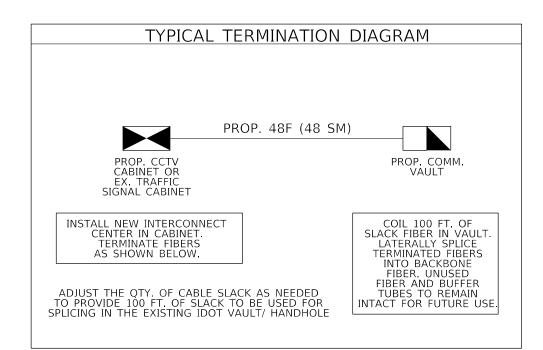
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DUG OF ADDITION OF A VICE PROPERTY OF THE PROP	T	PROPOSED FIBER, CCTV AND CONDUIT INSTALLATION		F.A.P. RTE	Γ
BUS 24 (PEURIA SI.) JEFFERSON SI WILMUR RD. 10 WASHINGTON PD		BUS 24 (PEORIA ST.)/JEFFERSON ST. – WILMOR RD. TO WASHINGTON	PD	US 24 (VAR); BUS 24	1

SECTION COUNTY TOTAL SHEET NO.

1 17TS-1; 35TS; 36TS-3 TAZWELL 15 12

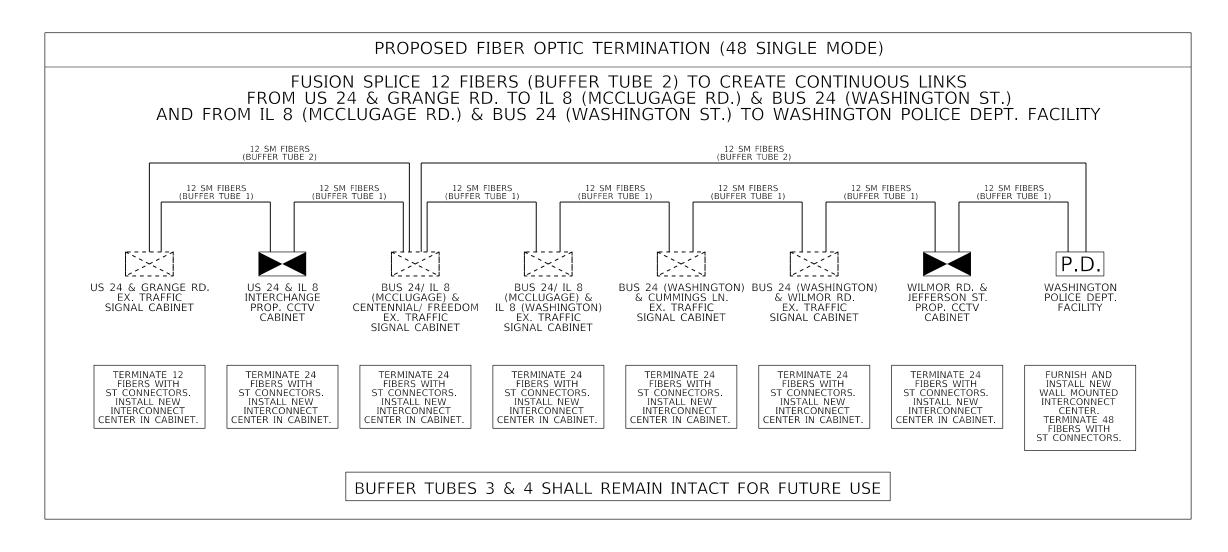
CONTRACT NO. 68E78



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.
- 2. ALL CABLE SPLICES AND TERMINATIONS SHALL BE FUSION SPLICED.
- 3. 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.
- 5. 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.

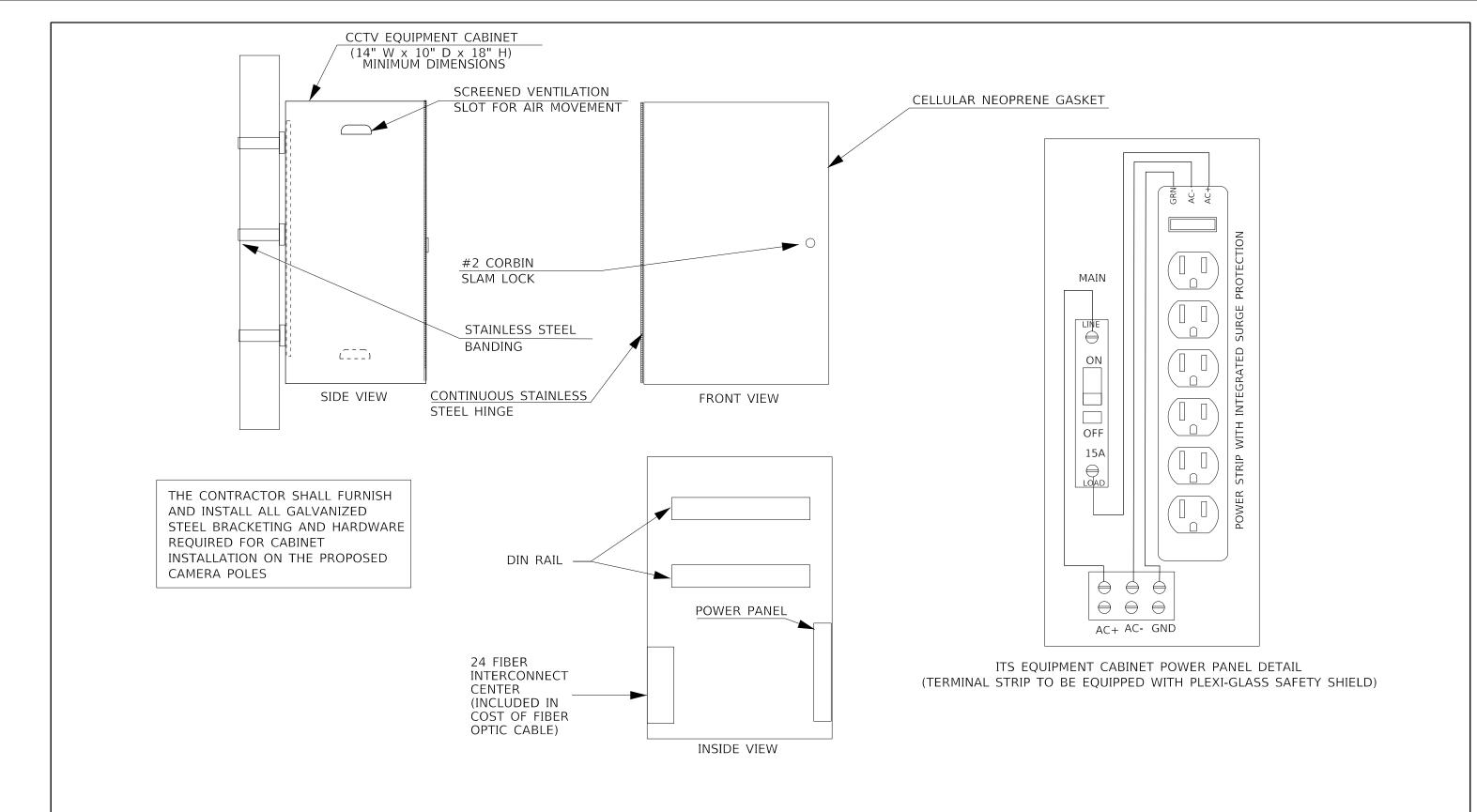
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			F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FI	FIBER OPTIC CABLE TERMINATION DIAGRAM			17TS-1; 35TS; 36TS-3	TAZWELL	15	13
					CONTRAC	T NO. 6	8E78
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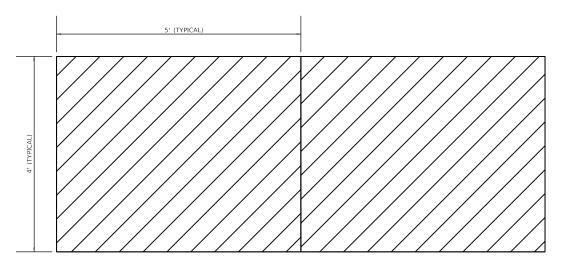


NOTES

- 1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 14" W X 10" D X 18" H (NOMINAL). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
- 2. THE CABINET SHALL BE EQUIPPED WITH A #2 CORBIN (OR SKELETON KEY) SLAM LOCK, AND ALL STAINLESS STEEL HARDWARE.

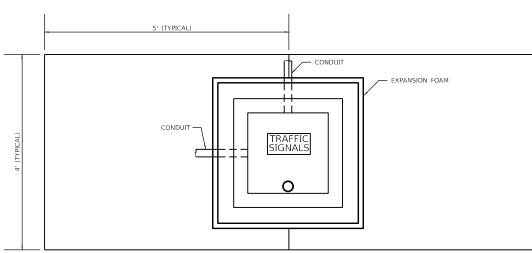
E	LE NAME =	USER NAME = SUSER\$	DESIGNED	REVISED				F.A.P. SECTION	COUNTY T	TOTAL SHEET
\$	FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS	CLOSED CIRCUIT TELEVISION	N CABINET DETAIL	US 24	TAZWELL	15 14
		PLOT SCALE = SSCALES	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION			BUS 24	CONTRACT	NO. 68E78
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SIDEWALK REMOVAL FOR PROPOSED HANDHOLE/ COMMUNICATIONS VAULT



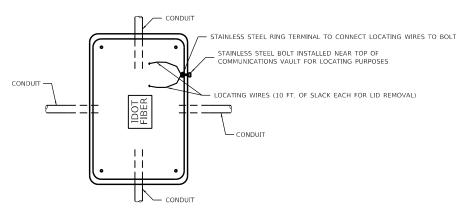
1. THE CONTRACTOR SHALL REMOVE TWO (2) PANELS OF SIDEWALK (40 SQ FT) TO ACCOMODATE PROPOSED HANDHOLE/ COMMUNICATIONS VAULT AND CONDUIT INSTALLATION.

PROPOSED HANDHOLE INSTALLATION



- NOTES:
 1. HANDHOLE CANNOT BE INSTALLED MONOLITHICALLY WITHIN SIDEWALK.
- 2. HANDHOLE 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 HANDHOLE.
 4. THE CONTRACTOR SHALL REPLACE TWO PANELS OF PCC SIDEWALK (33.75 SQ FT.)

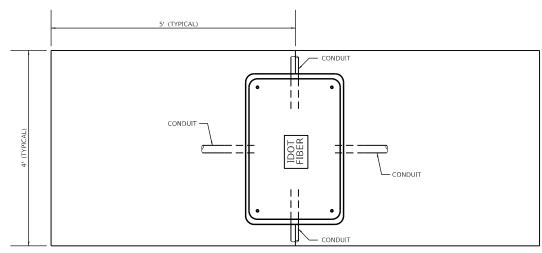
PROPOSED COMMUNICATIONS VAULT INSTALLATION (NON-SIDEWALK)



NOTES:

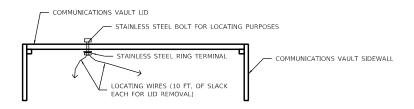
- 1. COMMUNICATIONS VAULT LOCATIONS SHALL BE FIELD VERIFIED WITH THE ENGINEER OF TRAFFIC PRIOR TO INSTALLATION.
- 2. LOCATING WIRES MUST BE ACCESSIBLE FROM OUTSIDE COMMUNICATIONS VAULT. THE CONTRACTOR SHALL DRILL A HOLE THROUGH THE COMMUNICATIONS VAULT SIDEWALL 1" BELOW THE LID AND INSTALL A 3/8" STAINLESS 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)



- 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.)

COMMUNICATIONS VAULT LID DETAIL FOR SIDEWALK LOCATIONS



THROUGH THE CONTRACTOR 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.

FILE NAME =	USER NAME = SUSER\$	DESIGNED	REVISED		COMMUNICATIONS VAULT AND HANDHOLE INSTALLATION DETAIL			F.A.P. RTF	SECTION	COUNTY	TOTAL SHEET
\$FILEL\$		DRAWN	REVISED	STATE OF ILLINOIS				US 24	17TS-1; 35TS; 36TS-3	TAZWELL	15 15
	PLOT SCALE = SSCALE\$	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION				(VAR); BUS 24		CONTRACT NO. 68E78	
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