

SCHEDULE OF QUANTITIES		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	4020.0
CONDUIT PUSHED, 2" DIA., PVC	FOOT	300.0
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	235.0
CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., GALVANIZED STEEL	FOOT	240.0
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	5115.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	12.0
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE)	FOOT	1615.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	3270.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4634.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	3348.0
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3900.0
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	4802.0
CONCRETE FOUNDATION, TYPE E 24-INCH DIAMETER (SPECIAL)	FOOT	10.0
CONCRETE FOUNDATION, TYPE E 36 INCH DIAMETER	FOOT	35.0
DRILL EXISTING HANDHOLE	EACH	3.0
TRAFFIC COUNTER	EACH	2.0
CONCRETE FOUNDATION, TYPE 1	FOOT	7.0
CAMERA POLE, 45 FT	EACH	1.0
CABINET, MODEL 334	EACH	2.0
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	7.0
ETHERNET SWITCH (MATERIAL ONLY)	EACH	18.0
TRAFFIC SIGNAL POST, SPECIAL	EACH	2.0
CAT 5 ETHERNET CABLE	FOOT	747.0
CLOSED-CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	9.0
CLOSED-CIRCUIT TELEVISION DOME CAMERA, IP BASED (MATERIAL ONLY)	EACH	2.0
CAMERA POLE, 55 FT	EACH	1.0
ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1.0
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	EACH	5254.0
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	4.0
COMMUNICATIONS VAULT	EACH	4.0

LEGEND	
	PROP. SERVICE INSTALLATION
	PROP. CCTV CABINET
	PROP. TYPE 334 ITS CABINET
	PROP. CCTV DOME CAMERA
	PROP. CAMERA POLE
	PROP. CONDUIT, TRENCHED
	PROP. CONDUIT, PUSHED
	PROP. CONDUIT, ATTACHED TO STRUCTURE
	PROP. JUNCTION BOX, SS, ATS
	PROP. COMMUNICATIONS VAULT
	PROP. TRAFFIC COUNTER

FIBER OPTIC CABLE SLACK
DOUBLE HANDHOLE: 30.0 FT.
COMMUNICATIONS VAULT: 30.0 FT
JUNCTION BOX: 10.0 FT.
HANDHOLE: 10.0 FT.
ITS OR SIGNAL CABINET: 10.0 FT.
EQUIPMENT CABINET: 3.0 FT

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 CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03 UNLESS SPECIFIED OTHERWISE.	
5. ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 873.04.	
6. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.	
7. THE LOCATIONS FOR CAMERA POLES AND CCTV CAMERAS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.	
8. THE COMMUNICATION VAULT SHALL BE INSTALLED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.	
9. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.	
10. THE CONTRACTOR MAY ELECT TO PUSH A CONDUIT THAT IS SHOWN TO BE TRENCHED ON THE PLANS. HOWEVER, THIS WORK WILL BE MEASURED FOR PAYMENT AND PAID FOR AS CONDUIT IN TRENCH OF THE TYPE AND SIZE SPECIFIED AND TRENCH AND BACKFILL FOR ELECTRICAL WORK.	
11. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEMS (PUSHED OR TRENCHED).	
12. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.	
13. 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.	
14. THE CONTRACTOR SHALL INSTALL A #12 (EPR-TYPE RHW) TRACER WIRE ALONG WITH THE FIBER OPTIC CABLE IN ALL UNDERGROUND CONDUIT. THE TRACER WIRE SHALL BE CONTINUOUS AND BE ACCESSIBLE FROM THE HANDHOLES. THE COST OF FURNISHING AND INSTALLING THE TRACER WIRE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE FIBER OPTIC CABLE IN CONDUIT PAY ITEM. ONLY ONE TRACER WIRE IS REQUIRED PER CONDUIT.	
15. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED TO ATTACH THE CONDUITS, JUNCTION BOXES, CONTROLLER CABINETS, AND CAMERAS TO THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO UNISTRUT, 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 PRICE FOR THEIR ASSOCIATED PAY ITEMS.	
16. THE CONTRACTOR SHALL SUBMIT A COMPLETE PACKAGE (INCLUDING CONDUIT BRACKETS, HARDWARE, ATTACHMENT POINTS, ATTACHMENT METHODS, ETC.) TO THE DEPARTMENT FOR REVIEW AND SUBSEQUENT APPROVAL PRIOR TO COMMENCING WORK.	
17. THE CONTRACTOR SHALL FURNISH AND INSTALL EXPANSION/DEFLECTION COUPLINGS (OR OTHER EQUIPMENT AND METHODS AS APPROVED BY THE ENGINEER) FOR ALL BRIDGE JOINTS AS REQUIRED AND DIRECTED BY THE ENGINEER.	
18. ALL SEAL-TITE CONDUIT SHALL BE NON-METALLIC AND SHALL INCLUDE CONNECTORS WITH INTEGRAL STAINLESS STEEL KELLUM GRIPS AT THE ENDS FOR INCREASED STRENGTH AND DURABILITY.	
19. THE CONTRACTOR SHALL GROUND ALL EXPOSED STEEL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE GROUND SYSTEM WHEN USING NON-METALLIC SEAL-TITE CONDUIT BY INSTALLING A #6 GROUNDING CONDUCTOR INSIDE THE SEAL-TITE AND BONDING THIS WIRE TO THE GALVANIZED STEEL CONDUITS AT EACH END. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE GALVANIZED STEEL CONDUIT PAY ITEMS.	
20. ALL BRACKETS SHALL BE FULLY GALVANIZED AND ALL HARDWARE SHALL BE EITHER GALVANIZED OR STAINLESS STEEL.	
21. THE CONTRACTOR SHALL INSTALL THREAD LOCKER ON ALL THREADED CONNECTIONS TO PREVENT LOOSENING THROUGH VIBRATION.	
22. THE PROPOSED ELECTRICAL CABLE AND ALL SPLICES SHALL BE IN ACCORDANCE WITH ARTICLE 1066 OF THE STANDARD SPECIFICATIONS.	
23. THE CONTRACTOR SHALL CLEAR AWAY ALL DEBRIS (PLANTS, LOGS, FALLEN TREES, ETC.) REQUIRED FOR CONDUIT TRENCHING OPERATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF CONDUIT PAY ITEM.	