







ITEM DESCRIPTION	UNIT	TOTAL QTY.
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
ATTENUATOR BASE	SQ YD	102
ELECTRIC SERVICE INSTALLATION	EACH	1
SERVICE INSTALLATION, TYPE B	EACH	2
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	45,711
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	17,088
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	230
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,120
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	20
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	9,653
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	5,342
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60.0
DRILL EXISTING HANDHOLE	EACH	5.0
TRAFFIC COUNTER	EACH	5
DATA NETWORK PORT ADAPTER	EACH	8
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	2
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1
CAT 5 ETHERNET CABLE	FOOT	249
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	4
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED (MATERIAL ONLY)	EACH	3
CELLULAR MODEM	EACH	2
SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	1
CAMERA POLE, 55 FT	EACH	3
FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	EACH	17,729
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	13
CONCRETE FOUNDATION (SPECIAL)	FOOT	11
COMMUNICATIONS VAULT	EACH	6
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
CABINET, MODEL 334	EACH	3
WIRELESS ETHERNET RADIO	EACH	1
TRAFFIC COUNTER POST, GALVANIZED STEEL	EACH	4
RELOCATE OVERHEAD SIGN STRUCTURE - SPAN, SPECIAL	L SUM	1

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 CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES PRIOR TO THE INSTALLATION OF ANY COMPONENTS. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO COMMENCING WORK ON THE PROJECT.	
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, TRAFFIC COUNTER POLES, AND CONCRETE FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.	
8. THE COMMUNICATION VAULTS AND CONCRETE HANDHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE. COMMUNICATION VAULTS AND HANDHOLES SHALL BE INSTALLED AT 1200 FOOT INTERVALS.	
9. COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR UNDERGROUND CONDUIT.	
10. POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.	
11. 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.	
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 (XLP-TYPE USE) TRACER WIRE ALONG WITH THE FIBER OPTIC CABLE FOR LOCATING PURPOSES. 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.	
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING FIELD TILE AND UNDERDRAIN LOCATIONS. 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 TO RESTORE FUNCTIONALITY TO THE SATISFACTION OF THE ENGINEER.	
16. THE CONTRACTOR SHALL STUB OUT TWO 1-1/2" DIA. PVC CONDUITS OUT OF ALL COMMUNICATION VAULTS AND HEAVY DUTY HANDHOLES THAT ARE INSTALLED UNDER CONCRETE OR BITUMINOUS SHOULDERS OR PAVEMENT TO PROVIDE FUTURE ACCESS TO THESE FACILITIES. THE CONDUITS SHALL BE EXTENDED TWO FEET BEYOND THE LIMITS OF THE SHOULDER OR PAVEMENT AND CAPPED. THE COST OF INSTALLING THESE CONDUITS SHALL BE INCLUDED IN THE UNIT BID PRICES FOR "COMMUNICATIONS VAULT" AND "HEAVY-DUTY HANDHOLE".	

LEGEND	
	PROP. SERVICE INSTALLATION
	PROP. TYPE 334 OR TYPE B CABINET
	PROP. CCTV DOME CAMERA
	PROP. CAMERA POLE
	PROP. COMMUNICATIONS VAULT
	PROP. TRAFFIC COUNTER