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ROADWAY LIGHTING CONSTRUCTION NOTES

1. CONDUIT SHALL BE 2" PVC SCHEDULE 40, UNLESS OTHERWISE NOTED.
2. ALL CONDUIT CROSSING ROADWAYS SHALL BE 2" PVC SCHEDULE 80, UNLESS OTHERWISE NOTED.
3. THE GROUND CONDUCTOR SHALL HAVE NO SPLICE OR KINKS BELOW GRADE. IT SHALL BE SOLIDLY CONNECTED TO THE GROUNDING LUG OF EACH POLE AND TO THE GROUND ROD AT THE SERVICE INSTALLATION.
4. ALL POLES AND STREET LIGHT CONTROLLERS SHALL BE CONNECTED TO A CONTINUOUS GROUND CONSISTING OF A GREEN INSULATED ELECTRICAL CONDUCTOR 600V XLP-TYPE USE (SIZE AS INDICATED ON THE PLANS). THE CONDUCTOR SHALL BE PLACED INSIDE THE CONDUIT ALONG WITH THE INSULATED CABLE.
5. THE CONTRACTOR SHALL PROVIDE A 3/16" POLY PULL-LINE THROUGH EACH PVC CONDUIT IN WHICH NO CONDUCTORS ARE PLACED IN THIS CONTRACT. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE PRICE FOR THE CONDUIT SPECIFIED.
6. ALL NON-METALLIC JUNCTION BOXES EMBEDDED IN THE PARAPET WALLS SHALL BE CONSTRUCTED FROM POLYMER CONCRETE AS SPECIFIED IN ARTICLE 1088.05.
7. JUNCTION BOXES OF "SLIGHTLY" LARGER THAN THOSE SPECIFIED ON THE PLANS MAY BE USED WHEN APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
8. EXISTING AND/OR TEMPORARY LIGHTING UNITS SHALL NOT BE REMOVED UNTIL THE NEW LIGHTING SYSTEM IS COMPLETELY INSTALLED AND FULLY OPERATIONAL TO THE SATISFACTION OF THE ENGINEER.

ESTIMATED PROJECT LIGHTING QUANTITIES

DESCRIPTION	UNIT	TOTAL
ELECTRIC SERVICE INSTALLATION	EACH	3
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2,141
UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	290
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	14,869
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 8"	EACH	24
JUNCTION BOX EMBEDDED IN STRUCTURE 8" X 24" X 10"	EACH	6
UNIT DUCT,600V,2 1C NO.10, 1/C NO.10 GND,(XLP-TYPE USE),3/4" DIA. POLY.	FOOT	262
UNIT DUCT,600V,2 1C NO.4,1/C NO.6 GND,(XLP-TYPE USE), 1 1/4" DIA. POLY.	FOOT	17,041
UNIT DUCT,600V,2 1C NO.2,1/C NO.4 GND,(XLP-TYPE USE),1 1/4" DIA. POLY.	FOOT	10,425
UNIT DUCT,600V,4 1C NO.2, 1/C NO.4 GND,(XLP-TYPE USE),1 1/2" DIA. POLY.	FOOT	1,193
UNIT DUCT,600V,4 1C NO.6, 1/C NO.6 GND,(XLP-TYPE USE),1 1/4" DIA. POLY.	FOOT	145
UNIT DUCT,600V,4 1C NO.4, 1/C NO.6 GND,(XLP-TYPE USE),1 1/2" DIA. POLY.	FOOT	2,221
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.10	FOOT	1,815
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	4,258
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYP USE), 1/C NO. 6	FOOT	19,446
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYP USE), 1/C NO. 4	FOOT	24,939
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	1,124
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	855
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	123
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	138
UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP	EACH	3
LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 12 FT. MAST ARM, TWIN	EACH	11
LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 15 FT. MAST ARM	EACH	101
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 12 FT. MAST ARM, TWIN	EACH	48
LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	39
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	867
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	138
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	38
REMOVAL OF POLE FOUNDATION	EACH	38
REMOVAL OF LIGHTING CONTROLLER	EACH	2
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2
CONDUIT, FLEXIBLE NON METALLIC, WEATHERPROOF, 1.0" DIAMETER	FOOT	60
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., STAINLESS STEEL	FOOT	501
CONDUIT ATTACHED TO STRUCTURE, 2" DIA. STAINLESS STEEL	FOOT	515
LIGHT POLE FOUNDATION, SPECIAL	FOOT	260
LIGHT POLE FOUNDATION, 30" DIAMETER, SPECIAL	FOOT	24
TEMPORARY LIGHTING SYSTEM	L SUM	1

ROADWAY LIGHTING GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO NATIONAL, STATE, AND LOCAL CODES.
2. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL LIGHTING SYSTEM. THE EQUIPMENT SHALL BE FURNISHED AS SPECIFIED AND SHALL INCLUDE ALL INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM. INCIDENTAL ITEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ITEMS: ANCHORAGES, MOUNTING HARDWARE, CONNECTORS, LUGS, FUSES, ETC.
3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, QUANTITIES, AND TYPE OF UTILITIES IN AREAS TO BE EXCAVATED PRIOR TO THE COMMENCEMENT OF ANY WORK AND SHALL HAND EXCAVATE AS REQUIRED IN ORDER TO NOT INTERRUPT ANY EXISTING SERVICES. SEE CIVIL DRAWINGS FOR LOCATIONS OF EXISTING AND NEW UTILITIES. IF, IN PERFORMING WORK, DAMAGE TO EXISTING UTILITIES OCCURS, THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNER IMMEDIATELY AND PAY ANY COST INCURRED FOR REPAIR OR REPLACEMENT.
4. ELECTRICAL EQUIPMENT, RACEWAY, ETC. ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL INSTALL ELECTRICAL EQUIPMENT, RACEWAYS, ETC. WHERE DIRECTED BY THE ENGINEER IN ORDER TO BEST SUIT JOB CONDITIONS.

ROADWAY LIGHTING GENERAL NOTES (CONTINUED)

5. REMOVE ALL ABANDONED LIGHT POLE FOOTINGS TO 3' BELOW GRADE AND COMPLETELY REMOVE HANDHOLES, BACKFILL AND COMPACT.
6. ALL REPLACEMENT AND TEMPORARY WIRING SHALL BE EQUAL TO OR GREATER THAN THE EXISTING WIRE GAUGE. ALL PERMANENTLY INSTALLED CURRENT CARRYING CONDUCTORS SHALL BE XLP-TYPE USE.
7. NO SPLICING IS ALLOWED INSIDE ELECTRICAL DUCTS. ALL WIRING INTERCONNECTIONS SHALL BE ABOVE GRADE AND INSTALLED IN ACCESSIBLE AREAS AND SHALL BE MADE WITH ILLINOIS DOT APPROVED CONNECTORS.
8. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING STATE OWNED LIGHTING AND / OR TRAFFIC SIGNAL UTILITIES WITHIN THE LIMITS OF THE CONTRACT.
9. GUY WIRES SHALL BE INSTALLED AS REQUIRED AT ALL LOCATIONS WHERE AN UNEVEN STRAIN SHALL BE PLACED ON A POLE, OR AS DIRECTED BY THE ENGINEER. THE PRICE FOR THE GUY WIRES SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR "TEMPORARY LIGHTING SYSTEM."

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