

GENERAL NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
- ALL NEW CONDUITS, JUNCTION BOXES AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL THE UNDERPASS LUMINAIRES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATION OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATION OF THE FINISHED GRADE WITH THE CONDUIT BURIAL DEPTH AND THE LIKE SHALL REMAIN WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS NOTED OTHERWISE OR DIRECTED BY THE ENGINEER. THE LUMINAIRES MAY REQUIRE NIGHT-TIME OPTICAL ADJUSTMENT UPON INSPECTION BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30 INCH DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST OF THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, AS PART OF THE UNDERGROUND CONDUIT OR UNIT DUCT. THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUITS AND UNIT DUCTS WITH THE ROADWAY, BRIDGE WORK, AND UNDERGROUND UTILITIES.
- THE QUANTITIES OF CONDUIT AND UNIT DUCT WHERE INDICATED IN THESE PLAN DRAWINGS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN EXISTING UNDERPASS LIGHTING SYSTEMS AS SPECIFIED USING AERIAL FEEDS INCLUDING AREAS WHICH ARE AFFECTED BY CONSTRUCTION ACTIVITIES.
- UNDERPASS LIGHTING SYSTEM SHALL BE INSTALLED AS SHOWN ON THE SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS, PER IDOT DISTRICT 1 STANDARD BE-900.

LEGENDS

- EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
- EXISTING UNIT DUCT, TO BE REMOVED.
- EXISTING JUNCTION BOX, TO REMAIN.
- EXISTING JUNCTION BOX, TO BE REMOVED.
- PROPOSED UNDERPASS LUMINAIRE, SS HOUSING SUSPENDED MOUNT, 100W HPS TYPE M-SC-IV, 240V RATING
- PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
- PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
- ABANDON EXISTING UNIT DUCT
- 3-1/C NO. 2 AND 1/C NO. 4 GND IN 1 1/4" DIA., UNIT DUCT, UNDERGROUND
- 4-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" PVCC RGC
- 2-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" PVCC RGC
- 3-1/C NO. 2 AND 1/C NO. 4 GND. 1 1/4" UNIT DUCT IN 3" PVCC RGC ATTACHED TO PIER
- JUNCTION BOX, STAINLESS STEEL, 18"x12"x6", ATTACHED TO BACKSIDE OF PIER COLUMN
- JUNCTION BOX, STAINLESS STEEL, 12"x10"x6", MOUNTED ON TOP OF THE PIER CAP
- JUNCTION BOX, STAINLESS STEEL, 6"x6"x4", ATTACHED TO THE UNDERPASS MOUNTING ASSEMBLY
- LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
- EXISTING HIGH MAST TOWER TO REMAIN
- PROPOSED CABLE OR UNIT DUCT IN CONCEALED CONDUIT, SIZE AND TYPE AS NOTED

ABBREVIATIONS

| ABBREVIATION | DESCRIPTION |
|--------------|---|
| AC | ALTERNATING CURRENT |
| A/C | AERIAL CABLE |
| CB | CIRCUIT BREAKER |
| CKT | CIRCUIT |
| CM | CENTIMETER |
| CP | CONTROL PANEL |
| CT | CURRENT TRANSFORMER |
| DA | DAVIT ARM |
| DC | DIRECT CURRENT |
| DIA | DIAMETER |
| DP | DISTRIBUTION PANEL |
| E | EXISTING UNIT TO REMAIN |
| ECA | ELECTRIC CABLE ASSEMBLY |
| FT | FEET OR FOOT |
| FU | FUSE |
| GND | GROUND |
| HID | HIGH INTENSITY DISCHARGE |
| JB | JUNCTION BOX |
| KVA | KILOVOLT-AMPERE |
| KW | KILOWATTS |
| M | METER |
| MA | MAST ARM |
| MC | MULTI-CONDUCTOR |
| MM | MILLIMETER |
| M.H. | MOUNTING HEIGHT |
| MW | MESSENGER WIRE |
| NO. # | NUMBER |
| N.T.S. | NOT TO SCALE |
| P | PROPOSED |
| PB | PUSH BUTTON |
| PNL | PANEL |
| PVC | POLYVINYL CHLORIDE |
| PVCC RGC | PVC COATED RIGID GALVANIZED CONDUIT |
| PT | POTENTIAL TRANSFORMER |
| R | EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.) |
| RR | EXISTING UNIT TO BE REMOVED AND REINSTALLED |
| RECP | RECEPTACLE |
| RGC | RIGID GALVANIZED CONDUIT |
| SEL SW | SELECTOR SWITCH |
| SPARE | SPARE |
| SPACE | SPACE |
| SS | STAINLESS STEEL |
| STA | STATION |
| UD | UNIT DUCT |
| U.N.O. | UNLESS NOTED OTHERWISE |
| UGC, GS | UNDERGROUND CONDUIT, GALVANIZED STEEL |
| WP | WOOD POLE |
| XFMR | TRANSFORMER |
| HPS | HIGH PRESSURE SODIUM |
| LPS | LOW PRESSURE SODIUM |
| LTFM | LIQUID TIGHT FLEXIBLE METALLIC |

UNDERPASS LUMINAIRE IDENTIFICATION



IDOT SCHEDULE OF UNDERPASS LIGHTING QUANTITIES

| PAY ITEM NO. | ITEM DESCRIPTION | ITEM QUANTITY | | | | | |
|--------------|---|---------------|-----------|-----------|-------|----------------|-----------------|
| | | SHEET E-2 | SHEET E-3 | SHEET E-4 | UNITS | CONTRACT TOTAL | RECORD QUANTITY |
| 81028240 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | - | 116 | 206 | FOOT | 322 | - |
| • 81100320 | CONDUIT ATTACHED TO STRUCTURE, 1" DIA. PVC COATED GALVANIZED STEEL | - | 845 | - | FOOT | 845 | - |
| • 81100805 | CONDUIT ATTACHED TO STRUCTURE, 3" DIA. PVC COATED GALVANIZED STEEL | - | 40 | - | FOOT | 40 | - |
| 81300220 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" x 6" x 4" | - | 16 | - | EACH | 16 | - |
| 81300530 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" x 10" x 6" | - | 8 | - | EACH | 8 | - |
| 81300800 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" x 12" x 6" | - | 2 | - | EACH | 2 | - |
| • 81600800 | UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE | - | 960 | 812 | FOOT | 1772 | - |
| • 81702110 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 | - | 4043 | - | FOOT | 4043 | - |
| • 82107200 | UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM | - | 16 | - | EACH | 16 | - |
| 84200600 | REMOVAL OF LIGHTING UNIT, NO SALVAGE | 20 | - | - | EACH | 20 | - |
| • X8130125 | REMOVE EXISTING JUNCTION BOX | 2 | - | - | EACH | 2 | - |
| • X8210305 | PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LIGHTING | 1 | - | - | LSUM | 1 | - |
| • X8430100 | REMOVE EXISTING CONDUIT ATTACHED TO STRUCTURE | 681 | - | - | FOOT | 681 | - |

• DESIGNATES SPECIAL PROVISION

INDEX OF IDOT-D1 STANDARDS:

| STANDARD NO. | TITLE |
|--------------|--|
| BE-702 | MISC. ELECTRICAL DETAILS SHEET A |
| BE-900 | SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS |

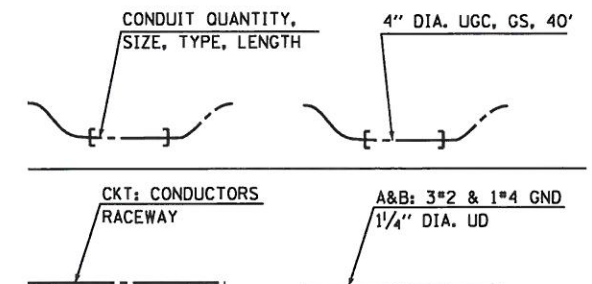


Exp. 11/30/2013

Angela C. Giovannone
1/18/2013

CALL-OUT SAMPLE

DEFINITION AND EXAMPLE



FILE NAME = J:\288\DOWN\CADD Sheets\Electrical\0160K77-sh21-elec1.dgn



| | | |
|-------------------------------|------------------|-----------|
| USER NAME = dsobota | DESIGNED - AM | REVISED - |
| PLOT SCALE = 3/8"=1' | DRAWN - YJ | REVISED - |
| PLOT DATE = 18-JAN-2013 16:21 | CHECKED - AG | REVISED - |
| | DATE - 1/24/2013 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRICAL GENERAL NOTES, SCHEDULE OF QUANTITIES AND LEGENDS

SCALE: NONE SHEET NO. 1 OF 5 SHEETS STA. TO STA.

| | | | | |
|--|----------|-------------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 2684 | 22-1HB-R | COOK/DUPAGE | 161 | 84 |
| CONTRACT NO. 60K77 | | | | |
| FED. ROAD, DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | | | | |

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