





| SHEET NUM.                                                                |  |  |  |  |  |  |    |    |    |    | PART. |            | ITEM | ITEM EXT | GRAND TOTAL | UNIT  | DESCRIPTION | SEE SHEET NO.                                                             |            |
|---------------------------------------------------------------------------|--|--|--|--|--|--|----|----|----|----|-------|------------|------|----------|-------------|-------|-------------|---------------------------------------------------------------------------|------------|
|                                                                           |  |  |  |  |  |  | 11 | 15 | 16 | 39 | 163   | 01/MPO/P V |      |          |             |       |             |                                                                           | 02/S>2>P V |
| <b>STRUCTURE 20 FOOT SPAN AND UNDER (E. WILSON BRIDGE ROAD) CONTINUED</b> |  |  |  |  |  |  |    |    |    |    |       |            |      |          |             |       |             |                                                                           |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 40    | 40         |      | 512      | 10050       | 40    | SY          | SEALING OF CONCRETE SURFACES (NON-EPOXY)                                  |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 127   | 127        |      | 512      | 33001       | 127   | SY          | TYPE 2 WATERPROOFING, AS PER PLAN                                         | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 63    | 63         |      | 512      | 33011       | 63    | SY          | TYPE 3 WATERPROOFING, AS PER PLAN                                         | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 32    | 32         |      | 516      | 13600       | 32    | SF          | 1" PREFORMED EXPANSION JOINT FILLER                                       |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 29    | 29         |      | 518      | 21200       | 29    | CY          | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                    |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 130   | 130        |      | 518      | 40000       | 130   | FT          | 6" PERFORATED CORRUGATED PLASTIC PIPE                                     |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 11    | 11         |      | 601      | 32200       | 11    | CY          | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER                               |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 70    | 70         |      | 611      | 97400       | 70    | FT          | CONDUIT, MISC.:9'X4' CONDUIT, TYPE A, 706.05                              |            |
| <b>STRUCTURE 20 FOOT SPAN AND UNDER (S. WORTHINGTON-GALENA ROAD)</b>      |  |  |  |  |  |  |    |    |    |    |       |            |      |          |             |       |             |                                                                           |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | LS    | LS         |      | 503      | 11100       | LS    |             | COFFERDAMS AND EXCAVATION BRACING                                         |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | LS    | LS         |      | 503      | 21301       | LS    |             | UNCLASSIFIED EXCAVATION, AS PER PLAN                                      | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 8,386 | 8,386      |      | 509      | 10000       | 8,386 | LB          | EPOXY COATED REINFORCING STEEL                                            |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 26    | 26         |      | 511      | 46011       | 26    | CY          | CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 46    | 46         |      | 511      | 46510       | 46    | CY          | CLASS QC1 CONCRETE, FOOTING                                               |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 68    | 68         |      | 512      | 10050       | 68    | SY          | SEALING OF CONCRETE SURFACES (NON-EPOXY)                                  |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 228   | 228        |      | 512      | 33001       | 228   | SY          | TYPE 2 WATERPROOFING, AS PER PLAN                                         | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 41    | 41         |      | 516      | 13600       | 41    | SF          | 1" PREFORMED EXPANSION JOINT FILLER                                       |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 56    | 56         |      | 518      | 21200       | 56    | CY          | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                    |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 258   | 258        |      | 518      | 40000       | 258   | FT          | 6" PERFORATED CORRUGATED PLASTIC PIPE                                     |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 6     | 6          |      | 518      | 40010       | 6     | FT          | 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS             |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 22    | 22         |      | 601      | 32200       | 22    | CY          | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER                               |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 101   | 101        |      | 611      | 94800       | 101   | FT          | 8' X 4' CONDUIT, TYPE A, 706.05                                           |            |
| <b>STRUCTURE 20 FOOT SPAN AND UNDER (PRIVATE DRIVE)</b>                   |  |  |  |  |  |  |    |    |    |    |       |            |      |          |             |       |             |                                                                           |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | LS    | LS         |      | 202      | 11000       | LS    |             | STRUCTURE REMOVED                                                         |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | LS    | LS         |      | 503      | 11100       | LS    |             | COFFERDAMS AND EXCAVATION BRACING                                         |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | LS    | LS         |      | 503      | 21301       | LS    |             | UNCLASSIFIED EXCAVATION, AS PER PLAN                                      | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 3,937 | 3,937      |      | 509      | 10000       | 3,937 | LB          | EPOXY COATED REINFORCING STEEL                                            |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 12    | 12         |      | 511      | 46011       | 12    | CY          | CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 24    | 24         |      | 511      | 46510       | 24    | CY          | CLASS QC1 CONCRETE, FOOTING                                               |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 40    | 40         |      | 512      | 10050       | 40    | SY          | SEALING OF CONCRETE SURFACES (NON-EPOXY)                                  |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 164   | 164        |      | 512      | 33001       | 164   | SY          | TYPE 2 WATERPROOFING, AS PER PLAN                                         | 162        |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 34    | 34         |      | 516      | 13600       | 34    | SF          | 1" PREFORMED EXPANSION JOINT FILLER                                       |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 30    | 30         |      | 518      | 21200       | 30    | CY          | POROUS BACKFILL WITH GEOTEXTILE FABRIC                                    |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 12    | 12         |      | 601      | 32200       | 12    | CY          | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER                               |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 72    | 72         |      | 611      | 94800       | 72    | FT          | 8' X 4' CONDUIT, TYPE A, 706.05                                           |            |
| <b>MAINTENANCE OF TRAFFIC</b>                                             |  |  |  |  |  |  |    |    |    |    |       |            |      |          |             |       |             |                                                                           |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 1,500 | 1,500      |      | 410      | 12000       | 1,500 | CY          | TRAFFIC COMPACTED SURFACE, TYPE A OR B                                    | 16         |
|                                                                           |  |  |  |  |  |  |    |    |    |    | LS    | LS         |      | 614      | 11000       | LS    |             | MAINTAINING TRAFFIC                                                       |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 120   | 120        |      | 614      | 11110       | 120   | hour        | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE                    | 16         |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 3     | 3          |      | SPECIAL  | 61411300    | 3     | EACH        | WORK ZONE TRAFFIC SIGNAL                                                  | 16         |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 1.69  | 1.69       |      | 614      | 21000       | 1.69  | MILE        | WORK ZONE CENTER LINE, CLASS I                                            |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 0.19  | 0.19       |      | 614      | 21550       | 0.19  | MILE        | WORK ZONE CENTER LINE, CLASS III, 642 PAINT                               |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 1.93  | 1.93       |      | 614      | 22000       | 1.93  | MILE        | WORK ZONE EDGE LINE, CLASS I, 4"                                          |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 0.19  | 0.19       |      | 614      | 22350       | 0.19  | MILE        | WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT                             |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 819   | 819        |      | 614      | 23000       | 819   | FT          | WORK ZONE CHANNELIZING LINE, CLASS I, 8"                                  |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 58    | 58         |      | 614      | 24000       | 58    | FT          | WORK ZONE DOTTED LINE, CLASS I                                            |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 222   | 222        |      | 614      | 25000       | 222   | FT          | WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I                               |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 197   | 197        |      | 614      | 26000       | 197   | FT          | WORK ZONE STOP LINE, CLASS I                                              |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 100   | 100        |      | 614      | 26610       | 100   | FT          | WORK ZONE STOP LINE, CLASS III, 642 PAINT                                 |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 812   | 812        |      | 614      | 27000       | 812   | FT          | WORK ZONE CROSSWALK LINE, CLASS I                                         |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 11    | 11         |      | 614      | 30000       | 11    | EACH        | WORK ZONE ARROW, CLASS I                                                  |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 2     | 2          |      | 614      | 31000       | 2     | EACH        | WORK ZONE WORD ON PAVEMENT, 72", CLASS I                                  |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 3     | 3          |      | 614      | 32000       | 3     | EACH        | WORK ZONE RAILROAD SYMBOL MARKING, CLASS I                                |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 346   | 346        |      | 615      | 20000       | 346   | SY          | PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A                                 |            |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 2,000 | 2,000      |      | 616      | 10000       | 2,000 | MGAL        | WATER                                                                     | 11         |
|                                                                           |  |  |  |  |  |  |    |    |    |    | 0.5   | 0.5        |      | 616      | 20000       | 0.5   | TON         | CALCIUM CHLORIDE                                                          | 11         |

GENERAL SUMMARY

FRA-CR 84-1.36  
NORTHEAST GATEWAY

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**STREET LIGHTING NOTES**

The street lighting shall be constructed in accordance with the current Ohio Department of Transportation "Construction and Material Specifications" (2016 Edition, Section 625 titled "Highway Lighting") and City of Columbus, Ohio "Construction and Material Specifications" (2018 Edition, Section 1001, titled "Street Lighting"), including all supplements thereto, in force on the date of the contract, shall govern all materials and workmanship involved in the improvements shown on these plans, except as such specifications are modified by the following specifications or by the construction details set forth herein.

**ITEM 625- LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, 480V**  
In addition to the requirements of ODOT's Construction and Material Specifications, luminaires for underpass lighting shall be as follows:

Luminaires for underpass lighting units shall be 480V, 3000K and shall be Evolve LED Area Light, Scalable Wall Pack EWS3-5-A7-D1-30-1-BLCK, Holophane Wallpack Full Cutoff LED HLWPC2-P10-30K-AH-T3M-BKSDP, or equal are approved by the Engineer.

Luminaires for underpass lighting unit which are wall mounted shall be furnished with an integral fuse holder and 10-ampere fuses.

Luminaires shall be painted black to match the light poles.

Payment will be made at the unit price bid under C&MS Item 625, "Luminaire, Underpass, Solid State (LED), As Per Plan, 480V" for each luminaire which shall be full compensation for all labor, materials and incidentals required to complete this item in a satisfactory and workmanlike manner.

**ITEM 625 - SERVICE TO UNDERPASS LIGHTING, AS PER PLAN**

This item shall consist of providing complete electrical power, except for luminaires, for underpass lighting systems. This installation work shall include disconnect switch, conduits, grounding, mountings, fittings, junction boxes, cables, splice kits, connection kits, and all incidentals necessary to complete, ready for use, the service as detailed on the plans.

The price bid for Item 625, Service to Underpass Lighting, As Per Plan, shall include payment for all equipment, labor and materials necessary to complete the work as specified, component parts not specifically mentioned, but required for satisfactory operation of this item, shall be furnished and considered paid for as part of the item.

**ITEM 625 - LUMINAIRE, DECORATIVE, SOLID STATE (LED), AS PER PLAN, 480V**

Tear Drop luminaires shall conform with all of the specifications of ODOT Item 625, with the following exceptions:

- Luminaire shall be manufactured by Spring City Electrical Mfg. Co., Columbia Series, catalog number ALMCLU-LE155/EV2/X2-22-CR3-YLC3-FED-LACLB-CB.
- Luminaires shall be painted black to match the light poles.

Payment shall be as per Item 625.

**ITEM 625 - LIGHTING, MISC.: POLE TO BE WIRED, 3 WIRE**

Poles shall be wired in accordance with MIS-501, except that they shall be designed for a three wire, 480V single phase power, with ground, lighting system. The Contractor shall wire each pole as shown on the detail contained herein.

Payment shall be as per Item 625.

**ITEM 625- LIGHTING, MISC.: 240/480V PAD MOUNTED CONTROL SITE, COMPLETE**

Pad mount control site shall be as per MIS-603, except that it shall be designed for a three wire, 240/480V plus ground, single phase power system with a separate insulated neutral bus and a ground bar. The Contractor shall install three #4, 5 kV cables from the line terminals of the control panel to the CT cabinet and from the CT cabinet to the power company's ground mounted service transformer, leaving 10' of cable coiled for the final connection to be made by the power company.

Provide an Arc Flash Hazard Warning sign on the outside front door of the enclosure, CT cabinet, and meter socket in accordance with the current National Electrical Code paragraph 110.16.

Provide an Available Fault Current sign on the outside of the front door of the service disconnect enclosure in accordance with the current National Electrical Code paragraph 110.24.

All lighting control enclosures, including CT cabinet, meter socket and disconnect switch, exposed conduits/fittings, mounting supports, etc. shall be painted black to match the light poles.

All labor and equipment required to provide a metered power service per AEP's requirements including meter, socket mounting, CT cabinet, mounting supports, foundations, and disconnect switch shall be considered incidental to this item. Additional compensation for coordination with the power supply agency shall not be made.

Payment shall be as per Item 625.

**ITEM 625 - Lighting Misc.: LIGHT POLE, DECORATIVE, AS PER PLAN**

Light poles for teardrop lighting shall be manufactured by Spring City Electrical Mfg. Co., catalog number SSHOC-G17-07.88-29.00-TN3.50/8.00-CB, with base DWBWR-23-CB and upper cross arm SARCMB-1S-72.00-TN2.38/-CB similar in appearance with Spring City drawing number LP-29139. All elements of the light

pole shall be a classic black finish, prime paint then finish Sherwin Williams Acrolon. Light poles shall include a warranty not less than five years.

In addition to the requirements of Item 625, light pole structures shall be designed and constructed by the supplier to support the loads that the plan requires to Contractor to install. The use of standard design designations and any details provided in this plan are intended to promote uniformity of design and are not warranted to be structurally adequate. The Contractor shall verify the anchor bolt circle, anchor bolt diameter, and orientation pattern with the light pole manufacturer. The manufacturer shall be responsible for verifying the pole design, and shall prepare shop drawings and structural design calculations stamped by an Ohio Professional Engineer. The shop drawings and calculations shall be submitted to the City of Worthington for approval prior to fabrication.

Payment shall be made per Item 625.

**ITEM 625 - LIGHTING, MISC.: PULL BOX, MEDIUM DUTY, 13" X 24" (MIS-54)**

Lighting pull boxes installed for use associated with existing City of Columbus street lighting circuits near the intersection of Worthington-Galena Road and Sancus Boulevard shall be installed as per City of Columbus MIS-54.

Payment shall be as per Item 625 for each pull box furnished and installed by the Contractor.

**ITEM 625 - LIGHTING, MISC.: 6' STREET LIGHT FOUNDATION (MIS-201)**

Street light pole foundations installed for this project shall be as per City of Columbus MIS-201.

Payment shall be as per Item 625 for each foundation furnished and installed by the Contractor.

**ITEM 625 - LIGHTING, MISC.: POLE TO BE WIRED, 2 WIRE (MIS-500)**

Existing light poles to be wired and remain wired on an existing City of Columbus maintained circuit near the intersection of Worthington-Galena Road and Sancus Boulevard shall be wired in accordance with City of Columbus MIS-500.

Payment shall be made for each existing light pole to be wired and shall include all labor and materials listed in MIS-500.

**ITEM 625 - LIGHTING, MISC.: CIRCUIT CABLE, TWO #4 AWG, CU, 5KV (MIS-403)**

Proposed lighting circuit cable installed as part of a modification to an existing City of Columbus lighting circuit near the intersection of Worthington-Galena Road and Sancus Boulevard shall be furnished and installed as per City of Columbus MIS-403.

Payment shall be made per linear foot of circuit, which shall include both #4 AWG cables.

**ITEM 625 - LIGHTING, MISC.: 2" CONDUIT, CONCRETE ENCASED (MIS-700)**

**ITEM 625 - LIGHTING, MISC.: 3" CONDUIT, JACKED OR DRILLED (MIS-702)**

Lighting conduit shall be furnished and installed per the associated City of Columbus MIS drawing.

Payment shall be made per linear foot of conduit furnished and installed by the Contractor.

**GROUNDING AND BONDING**

The requirements of the State of Ohio Department of Transportation Construction and Material Specifications (C&MS) and the HL series of Standard Construction Drawings are modified as follows:

- All metallic parts containing electrical conductors shall be permanently joined to form an Effective Ground Fault Current Path back to the grounded conductor in the power service disconnect switch.
  - Provide an equipment grounding conductor in metallic conduits (725.04) in addition to the conductors specified and bond the conduit to this grounding conductor.
  - When an equipment grounding conductor is required in plastic conduit (725.05), the installation shall include a separate equipment grounding conductor in addition to the conductors specified.
  - Metal pull box lids shall be bonded by attachment of the equipment grounding conductor to the frame diagonal as provided on HL-30.11.
- Conduits.
  - The 725.04 conduit shall have grounding bushings installed at all termination points. The bushing material shall be compatible with galvanized steel conduit and the grounding lug material shall be compatible for use with copper wire. Threaded or compression type bushings may be used.
  - The 725.05 conduit shall have the inside and outside diameters of the conduit deburred at all termination points.
  - Both ends of metallic conduit shall be bonded to the equipment grounding conductor.
  - Metallic conduit may be bonded to metallic boxes through the use of conduit fittings UL approved for this type of connection, with the box bonded to the equipment grounding conductor.
- Wire for grounding and bonding.
  - Use insulated, copper wire for the equipment grounding conductor. Bonding jumpers in boxes and enclosures may be bare or insulated

copper wire. Wire size shall be as follows: The insulation shall be green or green with yellow stripe(s). For 4 AWG or larger, insulation may also be black with green tape/labels installed at all access points.

- In a highway lighting system, the equipment grounding conductor shall be the minimum conductor size of 4 AWG. Bonding jumpers shall be minimum size 4 AWG.
- Ground rod.
    - A 3/4 inch Schedule 40 PVC conduit shall be used in foundations and concrete walls for the grounding conductor (ground wire) raceway to the ground rod. Should metallic conduit be used, both ends of the conduit shall be bonded to the grounding conductor.
    - The typical grounding conductor (ground wire) shall be 4 AWG insulated, copper.
  - Power Service and Disconnect Switch.
    - At the power service location, the grounding conductor (ground wire) from the disconnect switch neutral (AC-) bar to the ground rod shall be a continuous, unspliced conductor. If spliced, it shall be an exothermic weld butt splice.
    - The service neutral shall only be connected to ground at the main power service disconnect switch.
  - Payment for grounding and bonding shall be considered incidental to the conductors installed by the project.

**ITEM 625- LIGHTING, MISC.: CIRCUIT CABLE, THREE #4 AWG, CU, 5KV**

In addition to the requirements of MIS-404 circuit cable for this project shall contain three (3) #4 AWG, 5 kV cables.

Payment shall be made per linear foot of circuit, which shall include three #4 AWG cables.

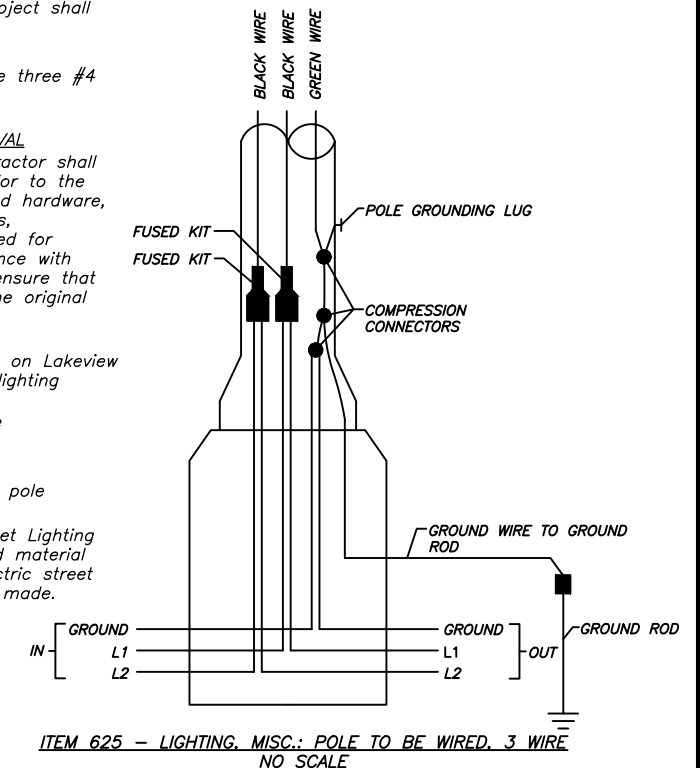
**ITEM 625 - LIGHTING, MISC.:EXISTING STREET LIGHTING SYSTEM REMOVAL**

In addition to the requirements of MIS-901 and MIS-902, the Contractor shall coordinate with AEP and the City of Columbus, Division of Power prior to the removal of all conduits, wire, aerial cable, insulators, cross arms and hardware, street light fixtures and lamps, mast arms, coils, transformers, poles, miscellaneous hardware, and appurtenances that have been designated for removal in the plans. Pole foundations shall be removed in accordance with MIS-900 and shall be incidental to this item. The Contractor shall ensure that all poles and luminaires that are removed remain the property of the original owner.

This item of work shall also include decommissioning two light poles on Lakeview Plaza Boulevard to remove them from the City of Columbus public lighting circuit. Decommissioning a light pole shall consist of removing:

- all underground wire leading up to or departing from the pole
- all connector kits in the base of the pole
- all pole and bracket cable
- all City of Columbus pole identification tags/stickers from the pole

Payment shall be made per Item 625 - Lighting, MISC.:Existing Street Lighting System Removal, shall include all coordination, equipment, labor, and material necessary to remove the designated components of the existing electric street lighting system. No separate payment for itemized removal shall be made.



ITEM 625 - LIGHTING, MISC.: POLE TO BE WIRED, 3 WIRE  
NO SCALE

**SUB-SUMMARY OF LIGHTING ITEMS**

| ITEM NO. | TOTAL | UNIT | ITEM DESCRIPTION                                             |
|----------|-------|------|--------------------------------------------------------------|
| 625      | 12    | EACH | LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN, 480V   |
| 625      | 2     | EACH | SERVICE TO UNDERPASS LIGHTING, AS PER PLAN                   |
| 625      | 3     | EACH | LIGHTING, MISC.:PULL BOX, MEDIUM DUTY, 13"X24" (MIS-54)      |
| 625      | 9     | EACH | PULL BOX, 18", 725.06                                        |
| 625      | 3     | EACH | PULL BOX, 24", 725.06                                        |
| 625      | 32    | EACH | LIGHTING, MISC.:6' STREET LIGHT FOUNDATION (MIS-201)         |
| 625      | 32    | EACH | LIGHT POLE, DECORATIVE, AS PER PLAN                          |
| 625      | 32    | EACH | LUMINAIRE, DECORATIVE, SOLID STATE (LED), AS PER PLAN, 480V  |
| 625      | 3     | EACH | LIGHTING, MISC.:POLE TO BE WIRED, 2 WIRE (MIS-500)           |
| 625      | 34    | EACH | LIGHTING, MISC.:POLE TO BE WIRED, 3 WIRE                     |
| 625      | 547   | FT   | LIGHTING, MISC.:CIRCUIT CABLE, TWO #4 AWG, CU, 5KV (MIS-403) |
| 625      | 9866  | FT   | LIGHTING, MISC.:CIRCUIT CABLE, THREE #4 AWG, CU, 5KV         |
| 625      | 9194  | FT   | LIGHTING, MISC.:2" CONDUIT, CONCRETE ENCASED (MIS-700)       |
| 625      | 130   | FT   | LIGHTING, MISC.:3" CONDUIT, JACKED OR DRILLED (MIS-702)      |
| 625      | 1     | EACH | LIGHTING, MISC.:240/480V PAD MOUNTED CONTROL SITE, COMPLETE  |
| 625      | 1     | LS   | LIGHTING, MISC.:EXISTING STREET LIGHTING SYSTEM REMOVAL      |

CALCULATED  
BER  
CHECKED  
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LIGHTING NOTES

FRA-CR 84-1.36  
NORTHEAST GATEWAY

240  
347

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