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DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**PAVILION ELECTRICAL**

OAK:KHC 1 of 2 APPR:BMB:NJM:06-26-24

**a. Description.** This work consists of furnishing, installing, and testing of the pavilion LED lights, weatherproof outlet boxes, raceway, and circuit wiring at the locations shown on the plans. Perform this work in accordance with this special provision, the *NEC*, and the standard specifications. Furnish all labor, materials, equipment, and miscellaneous hardware required for complete installation of the pavilion electrical as shown on the plans and as specified herein.

**b. Materials.** Furnish material in accordance with subsection 819.02 of the Standard Specifications for Construction except as specified herein. Materials must meet all applicable code requirements of the *ANSI/NEMA/UL* Standards. Furnish the following:

1. LED Luminaires. Furnish LED vandal-resistant luminaires by one of the following manufacturers:

A. Large Pavilion.

Manufacturer Product

Luminaire LED #VPF4-4FT-NODIM-40W-40K-MVOLT-OP-BRZ-WL

Fail-Safe #BAA-HVSL4-4-LD4-1HI-40-UNV-O-EDC1-ALH-BZ-WL

Engineer Approved Equal

B. Small Pavilions

Manufacturer Product

Luminaire LED #VPF4-4FT-NODIM-20W-40K-MVOLT-OP-BRZ-WL

Fail-Safe #BAA-HVSL4-4-LD4-1LO-40-UNV-O-EDC1-ALH-BZ-WL

Engineer Approved Equal

Ensure luminaire is wet-location listed with one-piece aluminum housing, UV-stabilized high-impact opal polycarbonate lens, stainless-steel fasteners, and a brushed stainless steel or dark platinum finish. Ensure the entire luminaire assembly including the housing, driver, and optical components, are manufactured, and assembled in the United States of America. Ensure the luminaire optical assembly has a color temperature of 4000 kelvin (K), with a color rendering index (CRI) of 70 or greater. Ensure the luminaire has a minimum 5-year manufacturer’s written warranty covering luminaire assembly, electrical components, driver, mechanical components, and paint finish.

2. Conduit. Furnish liquid-tight flexible conduit or PVC-jacketed metal-clad cable suitable for wet location applications.

3. Junction Boxes, Fittings, and Connectors. Furnish *NEMA 3R* die-cast aluminum junction boxes and box extensions. Ensure fittings and connectors are liquid-tight. Ensure covers are gasketed. Furnish stainless-steel screws.

4. Wiring. Furnish thermosplastic heat and water resistant (THWN) or cross-linked high heat water resistant (XHHW) insulated wire. Use 12 AWG minimum.

**c. Construction.** Perform work in accordance with sections 818 and 918 of the Standard Specifications for Construction and this special provision. Ensure all workmanship, materials, and methods of installation are governed by the requirements of the *NEC* and local codes.

Refer to the lighting plans for light fixture and outlet box locations and installation details. Coordinate electrical installation requirements with pavilion contractor.

Ensure light fixtures and outlets are securely attached to pavilion structure and are installed flush, parallel, and straight with structural members. Install light fixtures in accordance with the manufacturer’s recommendations and instructions.

Conduit and wire for light fixtures to be concealed within the pavilion column and structural members. Stub PVC conduit into base of column for installation of cabling. Coordinate all required electrical access/cutout locations within the pavilion structure for conduit and wire installation with the pavilion contractor and manufacturer prior to shipment. Electrical access/cutouts in the pavilion structure performed in the field are prohibited. Furnish blank stainless-steel covers with neoprene gasket at access/cutout locations as required.

Install light fixture cable and conduit within PVC raceway from the handhole to pavilion column as shown on plans. Splice conductors within the handhole using a watertight UL-listed direct burial splice block per the plans.

Stub outlet PVC conduit up the front face of the pavilion column and install the outlet box. Furnish box extensions as required for flush installation with face of column stone wrap. Plug all unused box hubs.

Upon installation completion, test operation of the lighting fixtures. Make any necessary adjustments and replace all faulty equipment prior to final acceptance.

**d. Measurement and Payment.** The completed work as described will be measured as a lump sum and paid for at the contract unit price using the following pay item:

**Pay Item Pay Unit**

Pavilion Elec Lump Sum

**Pavilion Elec** includes furnishing and installing light fixtures, outlet boxes, cable, conduit, splices, ancillary components, and equipment associated with the pavilion electrical system as described herein and on the plans for a complete installation.

Ground Fault Circuit Interrupter (GFCI) rated receptacle and single-gang in-use weatherproof cover will be furnished by others.