SECTION 265629 - SITE LIGHTING

PART 1 - GENERAL

1.1 WORK INCLUDES

A. Contractor Provide:

1. Exterior luminaries and accessories.

1.2 REFERENCES

A. ANSI/NFPA 70 - National Electrical Code.

1.3 PROJECT RECORD DOCUMENTS

A. Accurately record actual locations of each luminaire and circuit routing to each luminaire.

1.4 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years documented experience.

1.5 REGULATORY REQUIREMENTS

A. Conform to requirements of ANSI/NFPA 70.

B. Furnish products listed and classified by Underwriters Laboratories, Inc. or other testing firm acceptable to authority having jurisdiction as suitable for purpose specified and shown.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Accept products on site. Inspect for damage.

1.7 WARRANTIES

A. Provide 5 year warranty on all LED fixtures.

PART 2 - PRODUCTS

2.1 LUMINAIRES

A. Furnish products as specified on Drawings.

B. Substitutions: none

2.2 LAMPS

A. Provide lamp type specified for luminaire.

B. LED Lamps

1. Per fixture Led color temperature binning +/- 275K from specified fixture color temperature.
2. Minimum 70CRI.
3. Leds meet or exceed LM79 standard.

C. Luminaire to be IP66 rated.

D. Alternate lamp wattages to those specified on the drawings will not be considered.

2.3 FOUNDATIONS AND BASES

A. Concrete, as indicated on plans, provide reinforcing as indicated on plans.

B. For poles with exposed concrete bases taller than 6” AFG, contractor shall provide a rubbed finish on the exposed surfaces.

1. Apply a water proof agent after concrete has cured and been rubbed.

C. Bases and poles shall conform to AASHTO standards.

2.4 LED DRIVERS

A. LED driver

1. UL listed.
2. Minimum .9 power factor.
3. Less than 20% THD.
4. Minimum 9kV surge suppression protection.
5. Substitutions: none.
6. Voltage: Match luminaire voltage.

B. Provide a disconnecting means for each circuit at the pole.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine each luminaire to determine suitability for lamps specified.

3.2 INSTALLATION

A. Install in accordance with manufacturers' instructions.

B. Install lamps in each luminaire.

C. Bond luminaires and metal accessories to branch circuit equipment grounding conductor.

3.3 FIELD QUALITY CONTROL

A. Operate each luminaire after installation and connection. Inspect for improper connections and operation.

3.4 ADJUSTING

A. Aim and adjust luminaires to provide illumination levels and distribution as directed. This work will be completed at night after hours. Contractor shall provide all labor to aim fixtures as directed by the architect/engineer.

B. Relamp luminaires which have failed lamps at Date of Substantial Completion.

3.5 CLEANING

A. Clean electrical parts to remove conductive and deleterious materials.

B. Remove dirt and debris from enclosure.

C. Clean photometric control surfaces as recommended by manufacturer.

D. Clean finishes and touch up damage.

END OF SECTION 265629