

SECTION 16530

CONTROL LIGHTING

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Exterior Luminaries and Accessories.
- B. Emergency Lighting.

1.2 REFERENCES

- A. ANSI/NFPA 70 - National Electrical Code.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300 - Submittals.
- B. Shop Drawings: Indicate dimensions and components for each fixture which is not a standard product of the manufacturer.

1.4 QUALIFICATIONS

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

1.5 REGULATORY REQUIREMENTS

- A. Conform to requirements of ANSI/NFPA 70.
- B. Furnish products listed and classified by underwriters Laboratories, Inc., or testing firm acceptable to authority having jurisdiction as suitable for purpose specified and shown.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect, and handle products to site under provisions of Section 01600 – Material and Equipment.
- B. Accept products on Site. Inspect for damage.

1.7 EXTRA MATERIALS

- A. Furnish under provisions of Section 01700 – Contract Closeout.
- B. Provide two of each lamp type and wattage installed.

2. PART 2 PRODUCTS

2.1 LUMINARIES

- A. Furnish products as specified.
 - 1. Alarm light: 100W incandescent Red lamp or cover: Fail-Safe model RCS-12 100IN 120V BK.
 - 2. Motion activated or controlled entry light: Lumark QZWedge 500W.
 - 3. Flood lighting: Lumark QZWedge 500W.
- B. Substitutions: Under provisions of Section 01600 – Material and Equipment.

2.2 LAMPS

- A. Provide lamp type specified for fixture.

2.3 LIGHTING CONTACTOR

- A. Rating 120 volt, 20 amp.
- B. Control coil: 120 volt.

3. PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine excavation and concrete foundation for camera/lighting poles.
- B. Examine each laminar to determine suitability for lamps specified.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install lamps in each fixture.
- C. Install utility light and connect to control system in a manor consistent with plans.
- D. Install entry lights with photocell and motion sensor so the motion sensor will only activate light at night or with signal from control system.
- E. Install flood lighting on building and camera poles in manor consistent with plans. Connect to control system per electrical plans.
- F. Bond luminaries and metal accessories to branch circuit equipment grounding conductor.

3.3 FIELD QUALITY CONTROL

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

3.4 ADJUSTING

- A. Relamp luminaries, which have failed lamps at Date of Substantial Completion.
- B. Adjust direction of luminaries to cover predetermined areas as directed by the Engineer.

3.5 CLEANING

- A. Clean work under provisions of Section 01700 – Contract Closeout.
- B. Clean electrical parts to remove conductive and deleterious materials.
- C. Remove dirt and debris from enclosure.
- D. Clean motion control surfaces as recommended by manufacturer.
- E. Clean finishes and touch-up damaged.
- F. With one-week notice, provide demonstration of outdoor lighting system to Engineer and/or Owner.

END OF SECTION