

SECTION 16518
EXIT LIGHTING EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawing and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

1.2 SUMMARY

- A. Section includes the following:
 - 1. Exit lighting units, lamps, and accessories.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Section 16120, Building Wire and Cable 600v and Below.

1.3 REFERENCES

- A. Code of Federal regulations (CFR).
 - 1. CFR 29 1910.37q, Exit Lights and Signs.
- B. National Fire Protection Association (NFPA).
 - 1. NFPA 70-1999, National Electrical Code.
 - 2. NFPA 101-2000, Life Safety Code.
- C. Underwriters' Laboratories, Inc. (UL).
 - 1. UL certified listing of materials for construction.

1.4 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and General and Supplementary Conditions.
- B. Product Data for Exit fixtures and equipment specified, including the following:
 - 1. Data sheets shall include size, materials of construction, lamp data, and power supply data.
 - 2. Manufacturer's standard installation instructions.

1.5 QUALITY ASSURANCE

- A. NFPA Compliance: Fixtures and components shall be designed, fabricated, and installed in compliance with NFPA documents.
- B. UL compliance: Provide Exit light fixtures that are listed and labeled by UL.
- C. Comply with NFPA 70 for electrical components devices and accessories installation.
- D. Coordination: Coordinate layout and installation of Exit light fixtures with architectural features.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver equipment as a factory-assembled module with protective crating and covering.
- B. Store equipment in clean, dry, secure location.
- C. Handle equipment with care to preserve finishes and internal components.

1.7 SEQUENCING AND SCHEDULING

- A. Coordinate location of fixtures with architectural feature to assure maximum visibility.

PART 2 - PRODUCTS

2.1 EXIT LIGHTING UNITS

- A. Applicable Standards: NFPA requirements under Life Safety Code 101; internal wiring in compliance with the NEC.
- B. Acceptable Manufacturers
 - 1. Dualite.
 - 2. Daybrite.
 - 3. Lightalarms.
 - 4. Chloride.
 - 5. Exitronix.
 - 6. Lithonia.
 - 7. And as shown on fixture schedules.

2.2 LAMPS

- A. Furnish and install light emitting DIODE (LED) exit signs as shown.

2.3 ACCESSORIES

- A. Supply materials such as brackets, plates, etc., necessary for mounting.
- B. Provide directional arrows on the units as shown.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in for compliance with installation instructions. Use manufacturer's roughing-in data if roughing-in data are not indicated.
- B. Examine walls for suitable conditions where fixtures are to be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install units plumb and level.
- B. Install branch circuit wiring, connections, configuration, and identification in compliance with Article 700 of the NEC.

- C. The 120-V branch circuits supplying exit lights will be exclusively dedicated for this emergency circuits. Mark the circuit directory at panelboards supplying these circuits "DO NOT TURN OFF," and install clips on the circuit breaker operating handles to ensure circuit breakers are maintained in "ON" position.
- D. Clean all fixtures after installation.

3.3 FIELD QUALITY CONTROL

- A. Operate the unit to determine lamps will operate. Correct any failure of lamps to operate.
- B. Check that fixtures are complete with trim, arrows, fittings, and other specified components.
- C. Inspect installed fixtures for damage. Replace damaged fixtures and components.

END OF SECTION 16518