

SECTION 26 41 13 - LIGHTNING PROTECTION FOR STRUCTURES

PART 1 - GENERAL

1.1 DESIGN REQUIREMENTS

- A. Air terminal maximum size 24". Install Per UL Master label requirements.
- B. Down-lead conductors to be routed in PVC conduit. Minimum size one-inch.
- C. Install a lightning protection loop around the building perimeter. Locate within 3'-0" of the building. Minimum size to match the down lead conductor.
- D. Install ground rods Per UL Master label requirements.
- E. Bond columns to the roof lightning protection cable and underground lightning protection loop as required per NFPA.
- F. Each individual system (building) shall be UL Master labeled.
- G. Except for special environments, all material shall be copper and bronze.

1.2 SUBMITTALS

- A. Shop Drawings: Indicate layout of air terminals, grounding electrodes, and bonding connections to structure and other metal objects. Include terminal, electrode, and conductor sizes, and connection and termination details. Include mounting detail of air terminals and conductors.

1.3 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in lightning protection equipment with minimum three (3) years documented experience and member of the Lightning Protection Institute.
- B. Installer: Authorized installer of manufacturer with minimum three (3) years documented experience and certified by the Lightning Protection Institute.
- C. Obtain the services of Underwriters Laboratories, Inc. to provide inspection and labeling of the lightning protection system in accordance with UL 96A.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturers: Subject to compliance with requirements, provide products by the following:
 - 1. Thompson Lightning Protection, Inc.
 - 2. American Lightning Rod Co.
 - 3. Capitol Lightning Protection Co., Inc.
 - 4. Independent Protection Co., Inc.

2.2 MATERIALS, GENERAL

- A. Product Listing: UL 96 – Master Cable

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Connect conductors using mechanical connectors above grade and exothermic welding process below grade. Protect adjacent construction elements and finishes from damage.
- B. Bond exterior metal bodies on building to lightning protection system.

END OF SECTION 26 41 13