

LIGHTNING PROTECTION SYSTEM DURING REROOFING 16670 B

(This specification for a removal and replace as original lightning protection system addressing only the parts of the system directly affected by the reroofing project)

PART I. GENERAL

- 1.01 **Objective:** To provide safety for the building and occupants by preventing damage to the building caused by lightning.
- 1.02 **Standards:** The following specifications and standards of the latest issue form a part of this specification:
- (1) Underwriters Laboratories, Inc., (UL)
Installation Requirements for Lightning Protection Systems, UL 96A
 - (2) Underwriters Laboratories, Inc.,
Lightning Protection Components, UL 96
 - (3) National Fire Protection Association
Standard for the Installation of Lightning Protection, NFPA 780
 - (4) LPI 175
The standard for the installation of lightning protection for the LPI-IP Certification
- 1.03 **System Design:** The work covered by this section of the specifications consists of furnishing all labor, materials and items of service required to return the lightning protection system back to original condition.

The lightning protection system shall be reviewed by a Lightning Protection Certified Master Designer and the drawing shall bear the seal. The seal shall be current at the time of submission and shall be signed by the Master Designer. This shall be accepted in lieu of a state certified engineers stamp on the lightning protection drawings.

The lightning protection installation company shall employ LPI Certified Master Installers to do the actual removal and reinstallation of the LPS.

- 1.04 **Submittals:** As required by owner.
- 1.05 **Quality Assurance:** Provide a letter stating that the LPS has been reinstalled to original or better condition. Make note of any variation from UL 96a in writing to the owner for his review.

PART II. PRODUCTS

- 2.01 **Standard:** Remove the existing LPS material and refurbish for reinstallation where in conformance with UL 96. Replace defective material and any material contaminated with roofing materials that is incompatible with the new Roof system materials. The new equipment shall be UL listed and properly UL labeled.

Acceptable Manufacturers:

Northeast Lightning Protection, Bloomfield, CT
East Coast Lightning Protection Equipment, Winstead, CT
Acme Lightning Rod Co., Bloomfield, CT

- 2.02 **Equipment:** Reinstall the lightning protection system in compliance with the original design.
- 2.03 **Materials:** All new lightning protection materials and components shall comply in weight, size and composition with UL 96 and NFPA-780 lightning protection material requirements for this type of structure. All materials shall be matched in design and composition to the existing materials where possible. Aluminum components shall be used in locations where system components are mounted to aluminum, zinc and galvanized surfaces to avoid galvanic corrosion of dissimilar metals. Class I materials shall be used on structures not more than 75 feet in height. Class II materials shall be used on structures over 75 feet in height.

PART III. EXECUTION

- 3.01 **Installation: The roofing contractor shall hire a LPI certified LP contractor.** The installation shall be accomplished by an experienced installation company that is listed with Underwriters Laboratories for lightning protection installation. The installation company shall utilize Lightning Protection Institute Certified Master Installers. All equipment shall be installed in a neat, workmanlike manner.
- 3.02 **Coordination:** The lightning protection installer will work with other trades to ensure a correct, neat and unobtrusive installation. The roofing contractor will be responsible for sealing and flashing all lightning protection roof penetrations and installing slip pads, stripping, heat welding or anything as required per the roof manufacturer's recommendations.