-AIR TERMINAL BASE HVAC UNIT ADHESIVE BASE AND CONDUCTOR HOLDER

# LIGHTNING PROTECTION SYSTEM AIR TERMINAL DETAIL

— AIR TERMINAL

**DETAIL NOTES:** 

1. AIR TERMINAL LENGTHS AND EXACT LOCATIONS TO BE DETERMINED BY LIGHTNING PROTECTION SYSTEM INSTALLER.

2. REFER TO SPECIFICATION SECTION #16670 FOR ADDITIONAL REQUIREMENTS.

### 1//2" X 24" GENTLY TAPERED SOLID ALUMINUM AIR TERMINAL 1//2" X 18" GENTLY TAPERED SOLID 1//2" X 12" GENTLY TAPERED SOLID ALUMINUM AIR TERMINAL ALUMINUM AIR TERMINAL -ALUMINUM UNIVERSAL BASE SET IN ADHESIVE— ALUMINUM UNIVERSAL BASE ALUMINUM UNIVERSAL BASE MOUNTED VERTICALLY-MOUNTED VERTICALLY -LIGHTING CONDUCTOR (24 STRANDS OF 14 AWG LIGHTING CONDUCTOR LIGHTING CONDUCTOR (24 STRANDS OF 14 AWG (24 STRANDS OF 14 AWG WIRES, 98 LBS. PER 1000')-WIRES, 98 LBS. PER 1000')-WIRES, 98 LBS. PER 1000')\_ ALUMINUM CABLE CLIP WITH STAINLESS STEEL ALUMINUM CABLE CLIP WITH STAINLESS STEEL ALUMINUM ADHESIVE CABLE FASTENER EVERY 3 FT. MAX.— FASTENER EVERY 3 FT. MAX. FASTENER EVERY 3 FT. MAX. AIR TERMINAL DETAIL "A" AIR TERMINAL DETAIL "B" AIR TERMINAL DETAIL "C" CLASS 1 ALUMINUM LIGHTING CONDUCTOR 1//2" X 18" GENTLY TAPERED SOLID ALUMINUM AIR TERMINAL-(24 STRANDS OF 14 AWG WIRE, 98 LBS. PER 1000FT) ~ULTRAWELD MOLD WITH UWM90 WELD METAL BIMETAL THRU-ROOF MOUNTED VERTICALLY-CONNECTOR ASSEMBLY-CLASS 1 COPPER LIGHTING CONDUCTOR (29 STRNADS OF 16 AWG 215 LBS. PER 1000')\_ CLASS 1 ALUMINUM LIGHTING CONDUCTOR (24 STRANDS OF 14 AWG WIRES -1" PVC PIPE----98 LBS. PER 1000'— ULTRAWELD MOLD WITH UWM150 WELD METAL— CLASS 1 COPPER LIGHTING CONDUCTOR (29 STRNADS OF 16 AWG ALUMINUM CABLE CLIP W/STAINLESS STEEL ULTRAWELD MOLD FASTENER EVERY 3' MAX-215 LBS. PER 1000')\_ WITH UWM115 WITH UWM115 5/8" X 10" WELD METAL-COPPER CLAD GROUND ROD-AIR TERMINAL DETAIL "D" THRU ROOF DETAIL "E" **GROUND ROD DETAIL "F"**

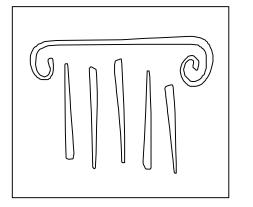
# LIGHTNING PROTECTION SYSTEM AIR TERMINAL INSTALLATION DETAIL

## NOTES:

- 1. THE COMPLETED INSTALLATION SHALL MEET THE "INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, UL96A" OF UNDERWRITERS LABORATORIES. THE UL MASTER LABEL SHALL BE FURNISHED TO THE OWNER UPON COMPLETION.
- 2. ALUMINUM LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL NOT BE MOUNTED TO COPPER SURFACES. COPPER COMPONENTS SHALL BE USED TO AVOID ELECTROLYTIC CORROSION.
- 3. METAL BODIES WITHIN 6' 0" OF THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE SYSTEM IN ACCORDANCE WITH UL96A REQUIREMENTS. 4. UNDERGROUND METALLIC PIPING ENTERING THE BUILDING SHALL BE

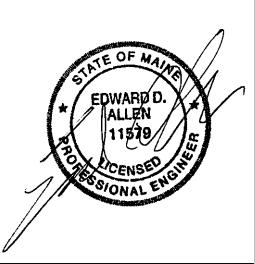
BONDED TO THE NEAREST DOWN CONDUCTOR OR GROUND

- 5. ADHESIVE USED WITH ADHESIVE AIR TERMINAL BASES AND CONDUCTOR FASTENERS SHALL BE COMPATIBLE WITH ROOFING MEMBRANE - VERIFY WITH ROOFING CONTRACTOR.
- 6. ROOF TOP EQUIPMENT NOT SHOWN ON THIS DRAWING SHALL BE PROTECTED AS REQUIRED TO MEET THE REQUIREMENTS LISTED ABOVE INCLUDING THE INSTALLATION OF AIR TERMINALS AND OR
- 7. AIR TERMINALS ARE TO BE LOCATED A MAXIMUM OF 24" FROM THE ROOF EDGE AND PROJECT A MINIMUM OF 10" ABOVE THE PROTECTED EDGE. THE SPACING BETWEEN AIR TERMINALS IS NOT TO EXCEED 20 FEET. SPACING FOR AIR TERMINALS THAT EXTEND 24" ABOVE THE PROTECTED EDGE IS NOT TO EXCEED
- 8. ALL LIGHTNING CONDUCTORS ARE TO MAINTAIN A HORIZONTAL OR DOWNWARD PATH. ALL BENDS IN THE CONDUCTOR SHALL HAVE A RADIUS BEND OF 8 INCHES OR GREATER, AND SHALL HAVE AN ANGLE BEND OF 90 DEGREES OR GREATER.
- 9. NOT ALL INDIVIDUAL ITEMS OF THE LIGHTNING PROTECTION SYSTEM ARE SHOWN, BUT A COMPLETE SYSTEM SHALL BE PROVIDED TO MEET MASTER LABEL REQUIREMENTS.
- 10. ROOF PADS, PAVERS, FLASHINGS OR ANY OTHER SPECIAL ROOFING MATERIALS REQUIRED FOR THE INSTALLATION OF THE LIGHTNING PROTECTION SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR.



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VANZELM HEYWOOD & SHADFORD, INC PROJECT NO.: 2007120.00

BECKER structurel engineers, inc.

ALLIED/COOK CONSTRUCTION

**■ Favreau** 

Titan Mechanical, Ir Design Build Engineering - Mechanical Contracti

# DATE DESCRIPTION

PERMIT SET

Date Issued 01/24/08 Project Number 06506

> LICHTNING **PROTECTION DETAILS**

Drawn By AMM

Checked By

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