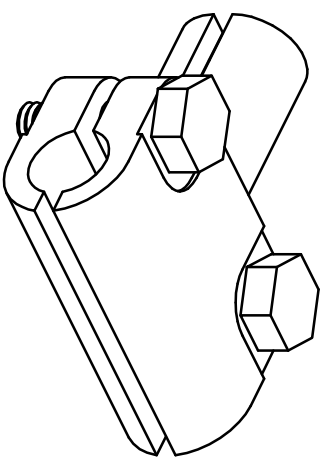
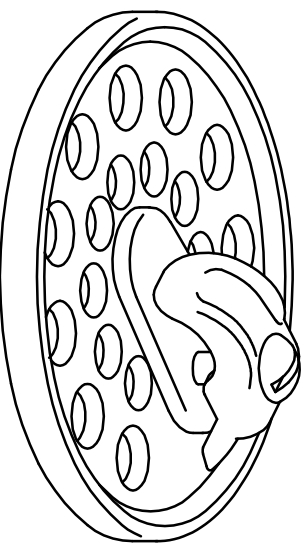


2 BONDING PIPE STRAP DETAIL
ELP101 NOT TO SCALE

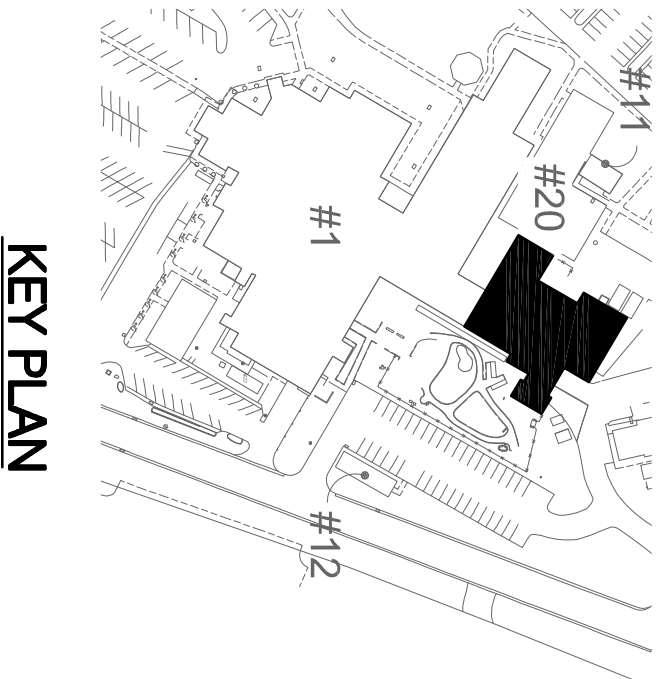


3 CAST 'T' SPLICER DETAIL
ELP101 NOT TO SCALE



4 ADHESIVE CABLE HOLD DETAIL
ELP101 NOT TO SCALE

LIGHTNING PROTECTION SYMBOLS	
	GROUNDING CONDUCTOR
	AIR TERMINAL
	GROUND LOOP DROP TO LOWER LEVEL
	GROUND CONDUCTOR THROUGH ROOF TO STEEL
	ONE INCH PVC CONDUIT - ROOF-TO-GRADE
	BONDING CONNECTION POINT



KEY PLAN

- SHEET NOTES:
- ALL CABLING ASSOCIATED WITH LIGHTNING PROTECTION SYSTEM SHALL BE #4/0-BARE COPPER, UNLESS OTHERWISE NOTED.

KEY NOTES:

- RECONNECT EXISTING LIGHTNING PROTECTION CONDUCTOR AND SPLICE TO EXISTING PERIMETER CONDUCTOR. CONTRACTOR SHALL PROVIDE 3/6" OF NEW LIGHTNING PROTECTION CONDUCTOR CABLE IN THE EVENT THAT THE EXISTING CONDUCTOR NEEDS TO BE EXTENDED OR THE EXISTING END IS DAMAGED BEYOND REPAIR. SEE DRAWING 3/ELP101 FOR CONNECTION DETAILS.
- RECONNECT LIGHTNING PROTECTION CONDUCTOR TO EXISTING VENT PIPING. SEE DRAWING 2/ELP101 FOR CONNECTION DETAILS.
- INSTALL ADHESIVE CABLE HOLD COMPONENTS AS REQUIRED TO EXISTING LIGHTNING PROTECTION CONDUCTOR RUNNING ACROSS ROOF. SPACING SHALL BE AS OUTLINED IN NFPA 780 AND SHALL BE PLACED AT INTERVALS NOT TO EXCEED 36". SEE DRAWING 4/ELP101 FOR CONNECTION DETAILS.

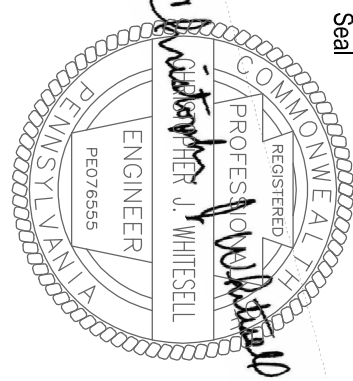
GENERAL LIGHTNING PROTECTION NOTES:

- THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH UL 96A, NFPA 780 AND ANSI WITH CONFORMANCE TO ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- ALL COMPONENTS ARE INTENDED TO BE COPPER OR BRONZE. BARE COPPER SHALL NOT BE INSTALLED WHERE IN DIRECT CONTACT WITH ALUMINUM.
- THE INSTALLATION SHALL BE COMPLETED IN A NEAT AND WORKMAN LIKE MANNER WITH ALL CONDUCTORS INSTALLED PARALLEL AND/OR PERPENDICULAR TO THE STRUCTURE.
- ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED HORIZONTALLY AND VERTICALLY NOT MORE THAN 3'-0" O.C. MAXIMUM SPACING. ON ROOF LOCATIONS, COORDINATE FASTENING OF CONDUCTORS WITH ROOFING CONTRACTOR.
- METALLIC BODIES OF INDUCTANCE SITUATED WITHIN 6'-0" OF A LIGHTNING CONDUCTOR OR ANOTHER BONDED METAL BODY SHALL BE INTERCONNECTED TO THE LIGHTNING CONDUCTOR SYSTEM, UNLESS INHERENTLY GROUND (I.E. ROOF DRAINS, ROOF VENTS, FLASHINGS, ETC.).
- BOND TO ALL METAL BODIES OF CONDUCTANCE WITHIN 6'-0" OF THE MAIN LIGHTNING CONDUCTOR SUCH AS EXHAUST FANS, RANGE HOOD EXHAUST FANS, LOADERS, BALUNES, ANTENNAS, METAL STACKS AND ANY OTHER LARGE METAL BODY WHO'S HEIGHT EXCEEDS THAT OF THE AIR TERMINALS IN USE, UNLESS PROTECTED BY HIGHER ROOF ELEVATIONS.
- NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90 DEGREES NOR SHALL HAVE A RADIUS OF BEND OF LESS THAN 8".
- ALL REINFORCING, STRUCTURAL, FRAMING, AND MISCELLANEOUS STEEL SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGHOUT CONSTRUCTION BY WELDING, CLIPPING, BOLTING, OR OTHER APPROVED METHODS.
- THE INSTALLATION CONTRACTOR SHALL PROVIDE A UL MASTER LABEL CERTIFICATE. IF EXISTING SYSTEM DOES NOT MAINTAIN A UL MASTER LABEL, PROVIDE CERTIFICATE FOR SCOPE OF WORK INCLUDED WITHIN THIS PROJECT.
- CONTRACTOR SHALL LIMIT EXTENT OF ROOFING BALLAST MATERIAL REMOVAL TO ALLOW FOR INSTALLATION OF ADHESIVE CABLE HOLDS ONLY.
- CONTRACTOR SHALL PROTECT ROOF AT ALL TIMES AND SHALL BE RESPONSIBLE FOR ANY AND ALL REPAIRS TO THE ROOF IF WORK ASSOCIATED WITH THIS PROJECT CAUSES DAMAGE TO EPDM RUBBER MEMBRANE AND ASSOCIATED SUBSTRUCTURE.

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Drawing Title
LIGHTNING PROTECTION FLOOR PLANS

Project Manager:

Project Title

ALTOONA, PA VA MEDICAL CENTER UPDATES

Project Number

2011200182.000

Building Numbers

1,3,8,11,15,16

Location

James E. Van Zandt VA Medical Center

Drawing Number

ELP101

Date

10/28/2011

BID SET

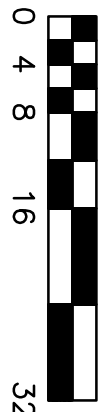


Department of Veterans Affairs

Revision

Date

1 BLDG. 1 - LIGHTNING PROTECTION
ELP101



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