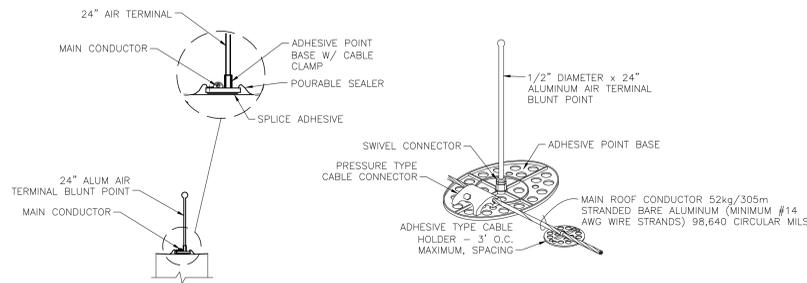
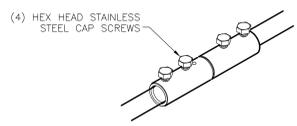


three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



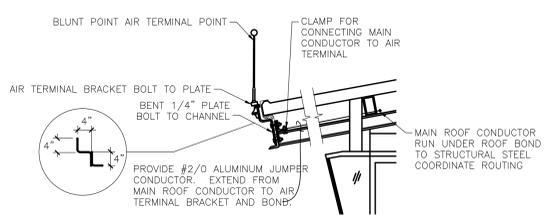
1 AIR TERMINAL "A" INSTALLATION DETAIL
 NTS

NOTE:
 1. PROVIDE BLOCKING AND ADHESIVE BASES SO THAT MAIN AND SECONDARY LIGHTNING PROTECTION CONDUCTORS DO NOT COME IN CONTACT WITH STRUCTURE. MAXIMUM SPACING 3'-0"



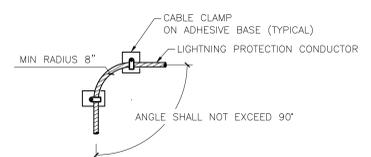
3 BI-METAL CONNECTOR
 NTS

NOTE:
 1. BI-METALLIC CONNECTOR SHALL BE UTILIZED TO PROVIDE A NON-ELECTROLYTIC CONNECTION BETWEEN ALUMINUM DOWN CONDUCTOR AND COPPER GROUND CONDUCTORS.



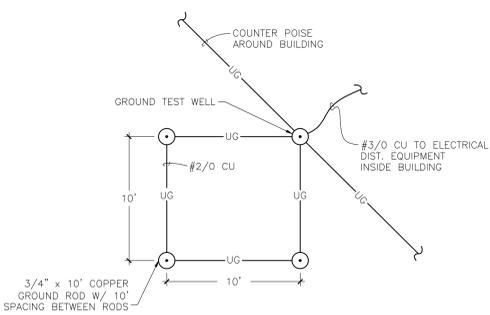
5 AIR TERMINAL "B" INSTALLATION DETAIL
 NTS

NOTE:
 1. CLASS I ALUMINUM DOWN CONDUCTOR. FASTEN TO ADJACENT SURFACE AT 3' INTERVALS AND BOND TO ALL CONDUCTIVE MATERIALS IN CLOSE PROXIMITY. COMPONENTS AND MATERIALS SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH NFPA 78.

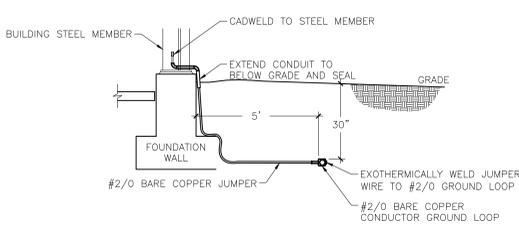


2 CONDUCTOR INSTALLATION DETAIL
 NTS

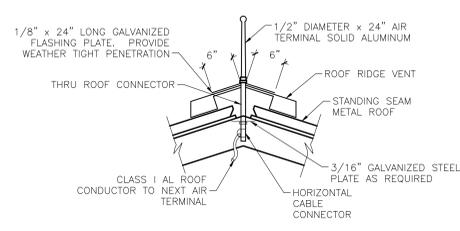
NOTE:
 1. PROVIDE BLOCKING AND ADHESIVE BASES SO THAT MAIN AND SECONDARY LIGHTNING PROTECTION CONDUCTORS DOES NOT COME IN CONTACT WITH RUBBER ROOF SURFACE. MAXIMUM SPACING 3'-0"



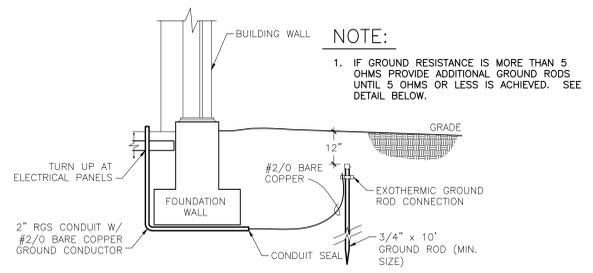
4 ELECTRICAL SYSTEM GROUND GRID DETAIL
 NTS



6 BLDG. GROUND TYPICAL INSTALLATION DETAIL
 NTS



7 AIR TERMINAL "C" DETAIL
 NTS



8 GROUND ROD INSTALLATION DETAIL
 NTS

NOTE:
 1. IF GROUND RESISTANCE IS MORE THAN 5 OHMS PROVIDE ADDITIONAL GROUND RODS UNTIL 5 OHMS OR LESS IS ACHIEVED. SEE DETAIL BELOW.

GENERAL NOTES:

1. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF UL #96A "MASTER LABEL" AND EACH BUILDING FURNISHED WITH A PLAQUE STATING SAME.
2. ALL METAL PROTRUSIONS THROUGH ROOF AND ON ROOF SHALL BE GROUND W/ #4 MINIMUM SIZE CONDUCTOR.
3. ALL GROUND CONNECTIONS SHALL BE WELDED.
4. THIS SYSTEM IS DESIGNED AROUND COPPER GROUND COMPONENTS AND ALUMINUM LIGHTNING PROTECTION COMPONENTS.
5. INCOMING METAL UTILITY LINES (WATER, ELECTRIC CONDUITS, ETC.) SHALL BE CONNECTED TO GROUND SYSTEM.
6. COORDINATE W/ ROOFING CONTRACTOR FOR LOCATIONS OF ANY ROOF PENETRATIONS REQUIRED BY LIGHTNING PROTECTIONS SYSTEM TO HAVE LEAK TIGHT PENETRATION.
7. ROOF CONDUCTORS SHALL BE FASTENED AT LEAST EVERY 0.9 METER, PER NFPA 780.

FINAL SUBMISSION

Revisions	Date

CONSULTANTS:	
CIVIL: KENNETH HORNE & ASSOCIATES 7201 NORTH 8TH AVENUE, STE. 6 PENSACOLA, FLORIDA 32504 PH: (850) 471-9005 FX: (850) 471-0053	COMM/ENR: SCHMIDT CONSULTING GROUP, INC. 40 S. PALMFOX PLAGE, STE. 200 PENSACOLA, FLORIDA 32502 PH: (850) 438-0050 FX: (850) 432-8831
LANDSCAPE ARCHITECT: CSA GROUP, INC. 6500 PROBABLY SQUARE DRIVE MOBILE, ALABAMA 36605 PH: (251) 344-4023 FX: (251) 344-4052	SURVEYORS: KGI TECHNOLOGIES, INC. 10401 HIGHLAND MANOR DRIVE, SUITE 100 TAMPA, FLORIDA 33600 PH: (813) 740-2500
ARCHITECTURE: BULLOCK TICE ASSOCIATES, INC. 909 SEAST CERVANTES STREET PENSACOLA, FL 32501 PH: (850) 454-5444 FX: (850) 432-9208	ARCHITECT/ENGINEERS: BES DESIGN/BUILD, LLC 766 Middle St. Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716

ARCHITECT/ENGINEERS:

BES DESIGN/BUILD, LLC
 766 Middle St. Fairhope, AL 36532
 Phone: 251.990.5778 Fax: 251.990.3716

Drawing Title	Project Title
LIGHTNING PROTECTION DETAILS	PANAMA CITY JOINT OUTPATIENT CLINIC VA GULF COAST HEALTH CARE
Approved Project Director	Location
	PANAMA CITY, FLORIDA
	Date
	MARCH 2012

Project Number	Building Number	Drawing Number
520-326	-	EG103
		Dwg 17 of 17

Office of Construction and Facilities Management

Department of Veterans Affairs