

**GENERAL NOTES:**

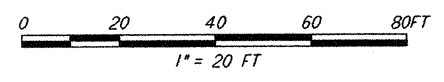
- FOR SYMBOLS, ABBREVIATIONS AND ACRONYMS SEE DWG. WA-E-001.
- FOR PLAN SYMBOLS SEE DWG. WA-EE-002.
- FOR GROUNDING STANDARD INSTALLATION DETAILS SEE DWG. WA-E-406, WA-E-407, AND WA-E-408.
- PANELBOARDS SHOWN FOR REFERENCE ONLY.

**GENERAL NOTES (LIGHTNING PROTECTION):**

- INSTALLATION SHALL COMPLY IN ALL RESPECTS WITH LIGHTNING PROTECTION INSTITUTE (LPI) CODE 175 AS REQUIRED PER NFPA 78.
- FOR LIGHTNING PROTECTION INSTALLATION DETAILS, SEE DWG. WA-E-406, WA-E-407, AND WA-E-408.
  - BLDG. METAL WITH CORRUGATED SIDING ROOF FINISH SINGLE PLY MEMBRANE
  - GABLE. ROOF (CENTERED RIDGE) LESS THAN 75'H, LOWER ROOF PROTECTION FOR 50' OR LESS (NFPA 78-10)
- LOCATE AIR TERMINALS AS SHOWN.
- SUPPORT ALL EXPOSED ROOF, DOWNLEAD AND BONDING CABLE AT 3'-0" ON CENTER MAXIMUM, SEE DETAIL 7/032.
- ALL MATERIALS SHALL BE U.L. APPROVED WITH "A" LABELS ON CONDUCTORS AT 10'-0" INTERVALS AND "B" LABELS ON ALL AIR TERMINALS.
- UNLESS OTHERWISE INDICATED ALL MATERIALS SHOWN HEREIN SHALL BE BY THOMPSON LIGHTNING PROTECTION INC. MFR. OR EQUAL.

**NOTES:**

- CONNECT GROUNDING CONDUCTOR TO FOUNDATION BAR AT BOTTOM. BAR SHALL BE AT LEAST 20 FT. LONG, 1/2" DIAMETER.
- ALL GROUND WIRES ROUTED ABOVE GRADE SHALL BE IN PVC CONDUIT OR NON-METALLIC LIQUID-TIGHT FLEXIBLE CONDUIT.
- PEDESTALS AT RAISED FLOOR ROOMS SHALL BE GROUNDED: MINIMUM 10% OF ALL THROUGHOUT ENTIRE RAISED FLOOR.
- ALL METAL PARTS SUPPORTING AIR HANDLING UNITS SHALL BE GROUNDED WITH 1#1/0 (GREEN) IN PVC CONDUIT, CONNECT TO GROUNDING PLATES. METAL-TO-METAL PARTS SHALL BE BONDED WITH 1#1/0 (GREEN) STRANDED SOFT DRAWN CU. WIRE.
- CONNECT GROUND WIRE TO BALLASTS RFI FILTERS CASE (3).
- TRANSFORMERS ARE LOW RESISTANCE TYPE CONNECT GROUND CONDUCTOR TO NEUTRAL AND CASE.
- GROUNDING MAT FOR PERSONNEL PROTECTION SHALL BE PREFABRICATED 4'x6', SIZE 6'x6' APART, WIRE # 1/0 AWG, 40% CONDUCTIVITY COPPERWELD, WITH CENTER WIRE # 1/0 AWG, ERICO MFR. CABLE TO MESH TYPE PT, MOLD PTC-1G2C, WELD METAL #55.
- GROUNDING MAT SHALL BE INSTALLED 12" DEEP MIN. ADJACENT TO HIGH VOLTAGE PRIMARY SIDE.



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LASER INTERFEROMETER  
 GRAVITATIONAL-WAVE OBSERVATORY  
 SITE NO. 1 - HANFORD, WASHINGTON

TITLE: ELECTRICAL CORNER STATION LVEA GROUNDING PLAN

SCALE: AS NOTED CONTRACT NUMBER: PP150969 PROJECT NUMBER: 8094

SHEET NUMBER: WA-E-103