

## NOTES:

- ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2011 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC NFPA 70) AND THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.
- 2. GROUND CONDUCTORS / TOWER GROUND RADIALS DAMAGED OR CUT DURING CONSTRUCTION SHALL BE REPAIRED BEFORE CONTINUING CONSTRUCTION ACTIVITIES. REROUTING OF GROUND CONDUCTORS AROUND IMPACTED AREAS SHALL BE COMPLETED BEFORE CONTINUING.
- 3. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC, NO COMPRESSION CONNECTIONS PERMITTED. MECHANICAL CONNECTIONS SHALL BE PERMITTED FOR EQUIPMENT UTILIZING BOLTED TYPE CONNECTIONS WHICH MAY REQUIRE REMOVAL FOR MAINTENANCE.
- 4. MODULE GROUND CONNECTIONS SHALL BE LOCATED AT ALL PENETRATION AREAS IN ADDITION TO THE PROVIDED GROUNDING PADS AT THE GENERATOR MODULE CORNERS. A MECHANICAL CONNECTION SHALL BE ATTACHED TO THE CONDUIT / PIPING EXITING THE MODULE UTILIZING A BURNDY CONNECTOR TYPE GAR-BU OR APPROVED EQUAL. SIZE AS REQUIRED.
- 5. CONTRACTOR SHALL TIE INTO EXISTING GROUND LOOP TO ENSURE CONTINUITY OF THE OVERALL GROUNDING SYSTEM.
- 6. CONTRACTOR SHALL CONNECT THE INTERIOR RF 4" COPPER BONDING TAPE (PROVIDED BY SABRE INDUSTRIES) TO THE RF GROUND TAPE ROUTED WITH THE RF COAXIAL CABLE (PROVIDED BY SITE CONTRACTOR). SILVER SOLDER ALL RF 4" WIDE TAPE CONNECTIONS.
- 7. WHERE THE GROUNDING ELECTRODE CONDUCTOR EXITS FROM BELOW GRADE IT SHALL BE ROUTED IN A SCHEDULE 80 PVC CONDUIT FROM 18" BELOW GRADE UP TO 8'-0" ABOVE GRADE.
- 8. THE RF COAX CABLE SHALL BE BONDED TO THE GROUNDING BUS BARS BELOW THE BULK HEAD PENETRATION BOTH EXTERIOR AND INTERIOR. ANDREWS GROUNDING KIT(S) NO. 241088-2 OR APPROVED EQUAL
- 9. CONTRACTOR SHALL CONNECT THE EXTERIOR RF GROUND BUS BAR TO THE GROUND LOOP UTILIZING A # 4/0 AWG INSULATED GROUNDING CONDUCTOR.
- 10. MODULE GROUND CONNECTIONS ARE LOCATED ON THE SIDES OF THE MODULE BUILDING. SEE CELLXION DRAWINGS FOR EXACT LOCATIONS FOR GROUNDING STUB-UPS. TYPICAL BOTH MODULES

## **LEGEND:**

---- UNDERGROUND CONDUIT

ABOVE GROUND CONDUIT

GROUND ROD, 3/4" X 10' SECTIONAL COPPER CLAD

EXOTHERMIC WELD, SEE DETAIL FOR TYPE

■ MECHANICAL GROUND CONNECTION, SEE DETAIL FOR TYPE

GROUNDING TEST WELL

— GROUNDING CONDUCTOR (BURIAL DEPTH 30")

CONDUIT / CABLE TURNED DOWN

---- 3"C 7/8" RF COAXIAL CABLE

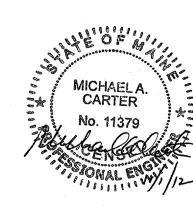
— CONDUIT / CABLE TURNED UP

TT GROUNDING BUS BAR

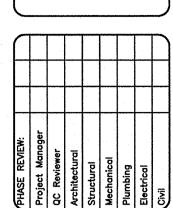
GROUND CONNECTION TO FOUNDATION REBAR LOCATION AT LOWEST LEVEL (UFER GROUND)

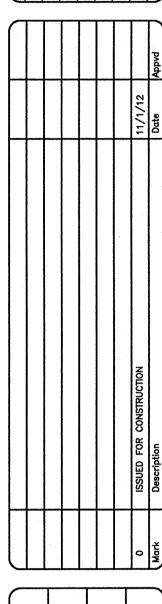


DETAIL/SHEET#











FEMA EMERGENCY RADIO NETWORK
ON WGAN PORTLAND, MAINE
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Drawing Number:

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