

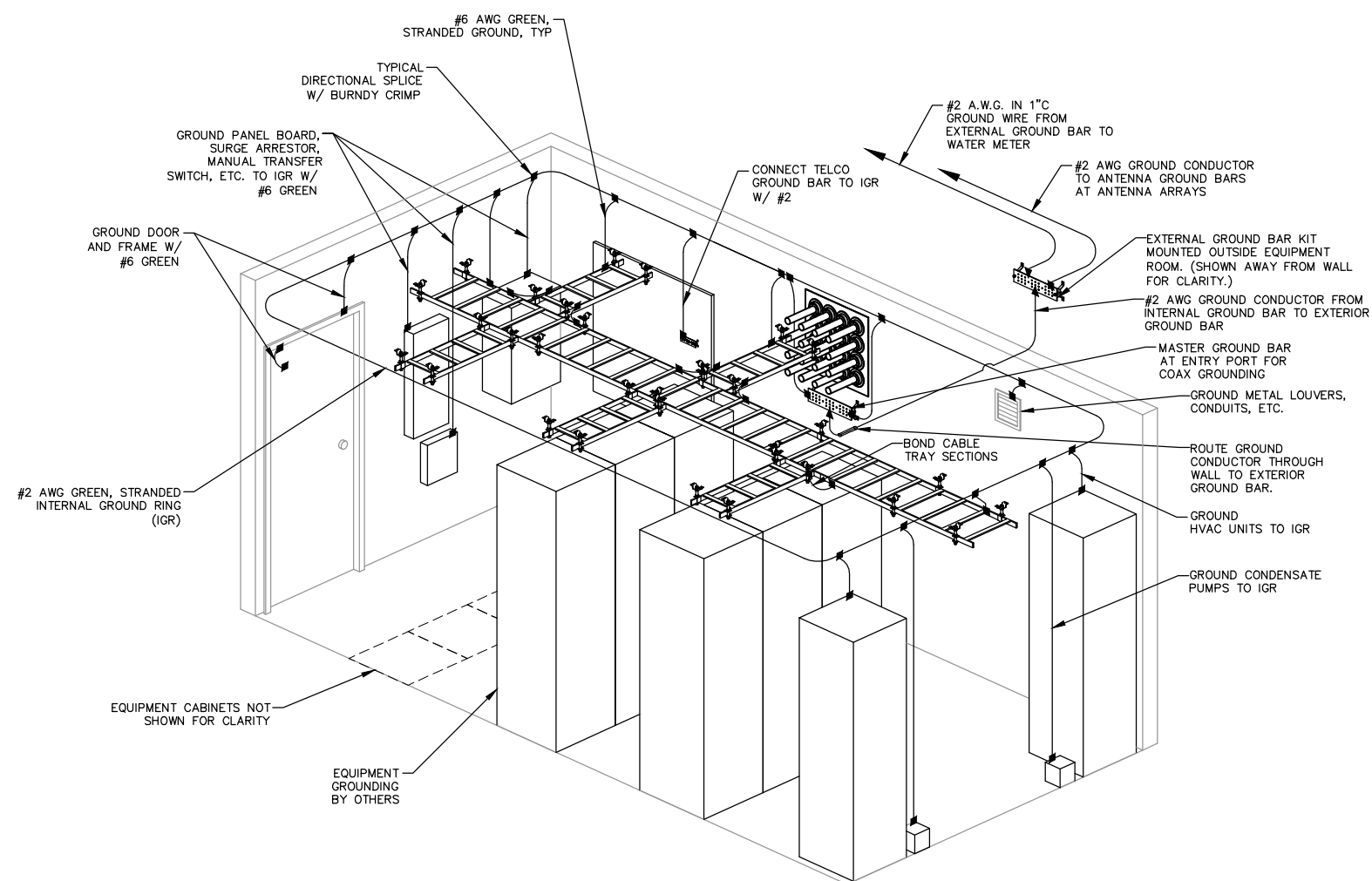
**PORTLAND 2 ME**

**CONSTRUCTION DRAWINGS**

0	05/02/13	FOR SUBMITTAL
A	04/18/13	FOR COMMENT



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**NOTE:**

- ROOM SCHEMATIC IS NOT REPRESENTATIVE OF ACTUAL ROOM LAYOUT. FOR ACTUAL ROOM LAYOUT SEE PAGE E-1.

**TYPICAL EQUIPMENT ROOM GROUNDING SCHEMATIC**

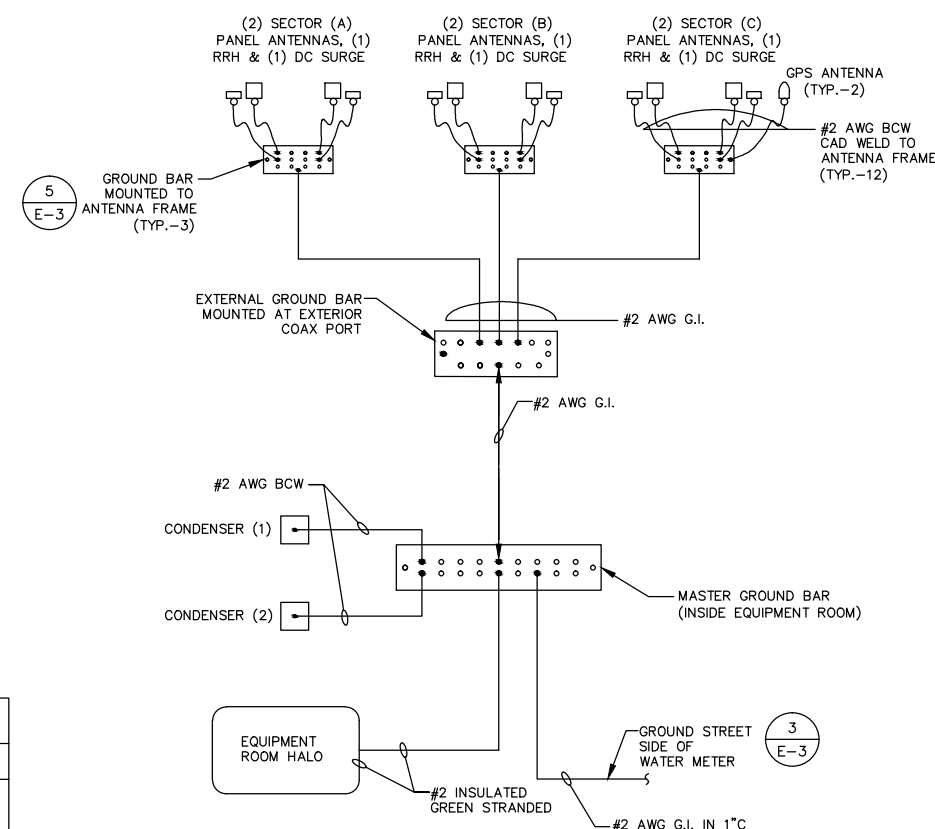
SCALE: N.T.S.

GROUNDING LEGEND	
SYMBOL	DESCRIPTION
▶	EXOTHERMIC WELD
■	MECHANICAL CONNECTION

1

**GROUNDING NOTES:**

- GROUND SHALL COMPLY WITH NEC ART. 250.
- GROUND CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR INDOOR USE.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. ALWAYS MAKE 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONNECTIONS TO GROUND BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- TEST COMPLETED GROUND SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION. GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.
- GROUND CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUND AT A MINIMUM OF TWO LOCATIONS USING VERIZON PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.



WIRE SIZE	LUG #	BOLT SIZE
#2	53207	1/4" - 20 NC x 1/2" S.S. BOLT & NUT W/LOCK WASHERS
#6	53205	

\* USE WHERE EXOTHERMIC WELD IS NOT CALLED FOR.

**NOTE:**

- SEE SHEET G-1 FOR GROUNDING NOTES.

**GROUNDING SCHEMATIC**

SCALE: N.T.S.

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DRAWN BY: MR

REVIEWED BY: MFT

CHECKED BY: PPB

PROJECT NUMBER: 50002925

JOB NUMBER: 50055368

SITE ADDRESS

202 WOODFORD STREET  
PORTLAND, ME 04103

SHEET TITLE

GROUNDING SCHEMATICS

SHEET NUMBER