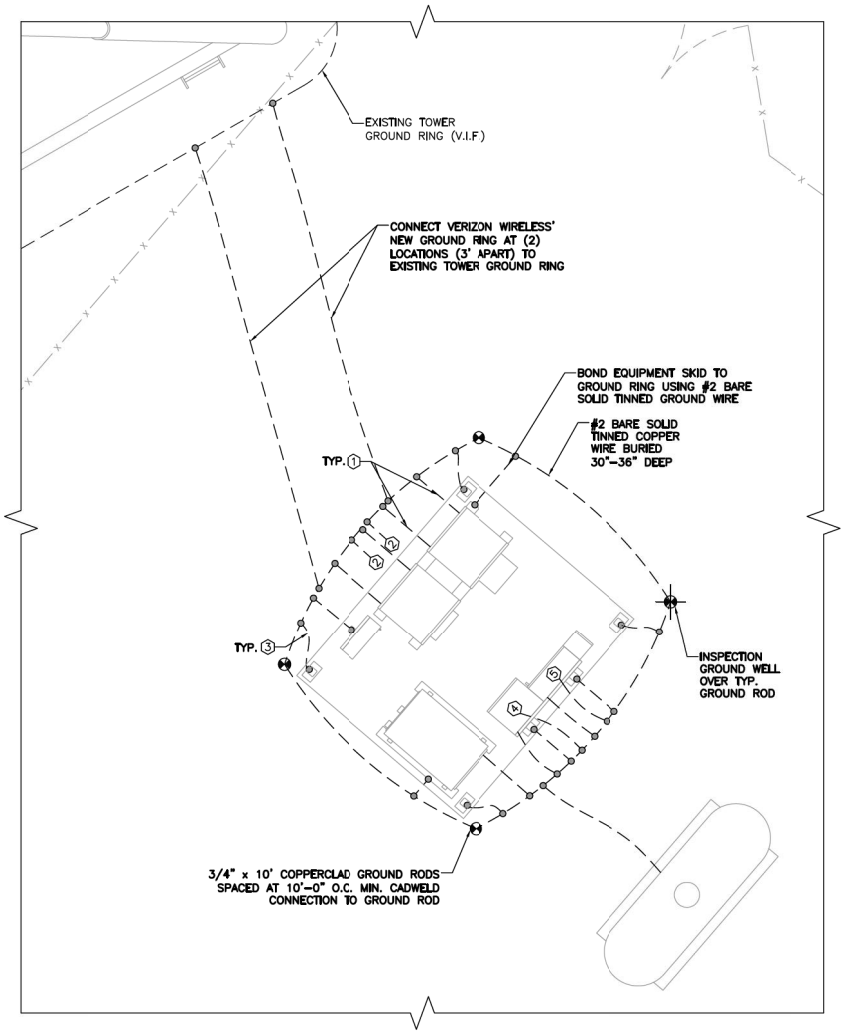


1 GROUNDING PLAN

SCALE: N.T.S.

GROUNDING CONNECTIONS

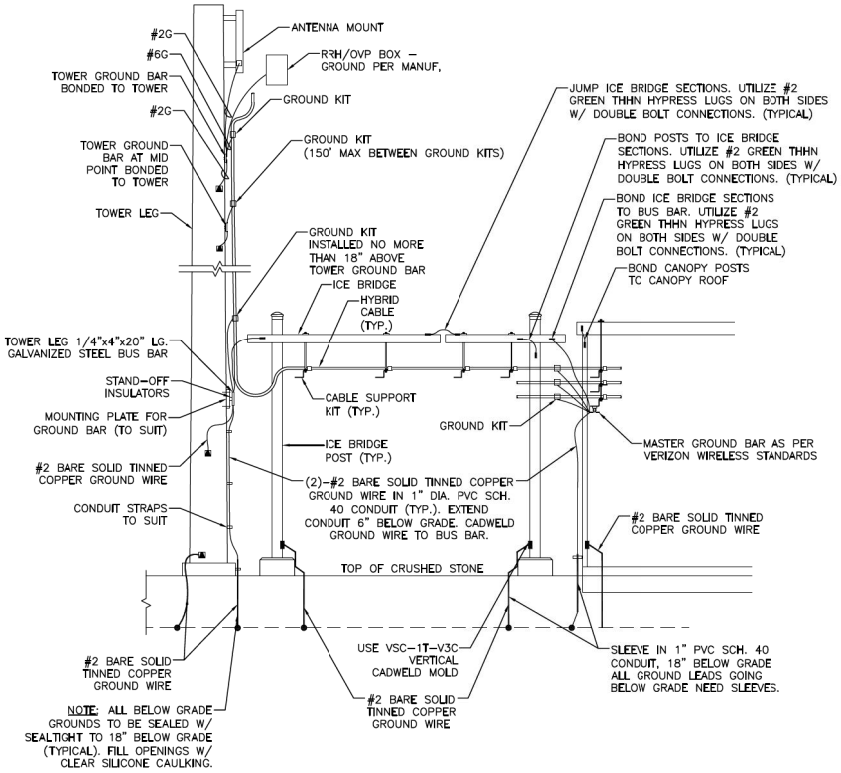
1. EQUIPMENT CABINET GROUND WIRE, #2 BARE SOLID TINNED COPPER GROUND WIRE, (2) PER CABINET. FASTENED TO CONCRETE PAD.
2. MASTER BUS BAR, (2) #2 BARE SOLID TINNED COPPER GROUND WIRE.
3. ICE BRIDGE POST & CANOPY POST GROUND, #2 BARE SOLID TINNED COPPER GROUND WIRE.
4. INTERIOR TELCO CABINET EGB, #2 BARE SOLID TINNED COPPER GROUND WIRE
5. MAIN DISCONNECT SWITCH GROUND #2 BARE TINNED COPPER GROUND WIRE.

LEGEND

- 3/4" X 10' COPPERCLAD GROUND ROD SPACED AT 10' O.C. MIN. CADWELD CONNECTION TO GROUND ROD
- VERTICAL CADWELD MOLD
- CADWELD CONNECTION
- INSPECTION WELL SEE DETAIL DWG
- CADWELD CONNECTION TO TOWER

NOTES

1. ALL ENDS OF CONDUIT SHALL BE SEALED WITH A FOAM SEALANT AFTER WIRES AND CABLES ARE INSTALLED.
2. ALL EQUIPMENT GROUND LEADS, CORNER GROUNDS, EXTERIOR GROUND BAR, TO BE #2 TINNED SOLID TO GROUND RING.
3. IF EXISTING GROUND RING IS ACCIDENTALLY BROKEN DURING CONSTRUCTION IT SHALL BE RECONNECTED VIA CADWELD.



NOTES:

1. CONTRACTOR SHALL ADD ADDITIONAL GROUND RODS & CONDUCTORS OR APPROVED GROUND ENHANCING MATERIAL TO ACHIEVE LESS THAN 5 OHMS RESISTANCE TO GROUND.
2. MAXIMUM VERTICAL/HORIZONTAL DISTANCE BETWEEN CABLE GROUNDING KITS SHALL NOT EXCEED 150 FEET. INSTALL ADDITIONAL KITS AS REQUIRED BY FIELD CONDITIONS.
3. GROUND ALL EQUIPMENT AT ANTENNAS AS REQUIRED BY MANUFACTURER.

2 TYPICAL GROUNDING RISER DIAGRAM

SCALE: N.T.S.

PREPARED BY:
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STATE OF MAINE
RONALD J. JACKSON
3773
LICENSED PROFESSIONAL ENGINEER

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SUBMITTALS

REV	DATE	DESCRIPTION	BY
A	09/28/15	FOR REVIEW	JM
B	03/09/16	REVISED EQUIPMENT	JM
C	07/25/16	REVISED PER SV	JM

SITE INFO:

SITE NAME:
PORTLAND_10_ME

LOCATION CODE:
381332

SITE ADDRESS:
81 NORTHPORT DRIVE
PORTLAND, ME 04103
CUMBERLAND COUNTY

SHEET TITLE:
GROUNDING PLAN, DETAILS & NOTES

NEXIUS PROJ. NO: **VZ11509**

SHEET NUMBER: **E-3**

CHECKED BY: MS

CHECKED BY DATE: 03/09/16

CITY OF PORTLAND
APPROVED
Subject to Conditions of Approval and Standard Conditions
Date of Approval: 8-26-16
PLANNER: Barbara Barhydt
PROJECT NO.: #2016-176