PROJECT REFERENCE NO. SHEET NO RISER WITH WEATHERHEAD DMS SIGNAL/CONTROL/ COMMUNICATION WIRES EQUIPMENT CABINET DISCONNECT RAINPROOF CONDUIT HUB STANDARD ELBOWS W/5.75" MIN. RADIUS FOR METER BASE/DISCONNECT COMBINATION PANEL SIZED IN ACCORDANCE WITH THE NEC (MINIMUM 50 AMPS SINGLE POLE BREAKER) PADLOCKABLE NEMA ENCLOSURE DMS SIGNAL/CONTROL/ COMMUNICATION WIRES 1/4 INCH GROUNDING LUG #4 AWG MIN. CONDUIT AND LIGHTNING ARRESTER SOLID BARE COPPER WIRE FEEDER CONDUCTORS 24 INCH MIN₁ DEPTH #4 AWG MIN. SOLID BARE COPPER WIRE 24 ÎNCH 24" MIN. DEPTH

5/8" X 10' MIN. COPPER CLAD STEEL GROUNDING ELECTRODES, 10 FEET APART

SEE NOTES 1, 2, 3, & 4

CONTINUOUS #4 AWG SOLID BARE COPPER WIRE FROM DISCONNECT TO GROUNDING ELECTRODE SYSTEM -

MIN, DEPTH

5/8" X 10' MIN. COPPER CLAD STEEL GROUNDING ELECTRODE

NOTES

- 1. INSTALL A MINIMUM OF THREE (3) GROUNDING ELECTRODES SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
- 2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
- 3. MECHANICALLY CRIMP ALL CONNECTIONS TO GROUND RODS USING AN IRREVERSIBLE COMPRESSION TOOL.

BY OTHERS

- 4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
- 5. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
- 6. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
- 7. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
- 8. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET.

