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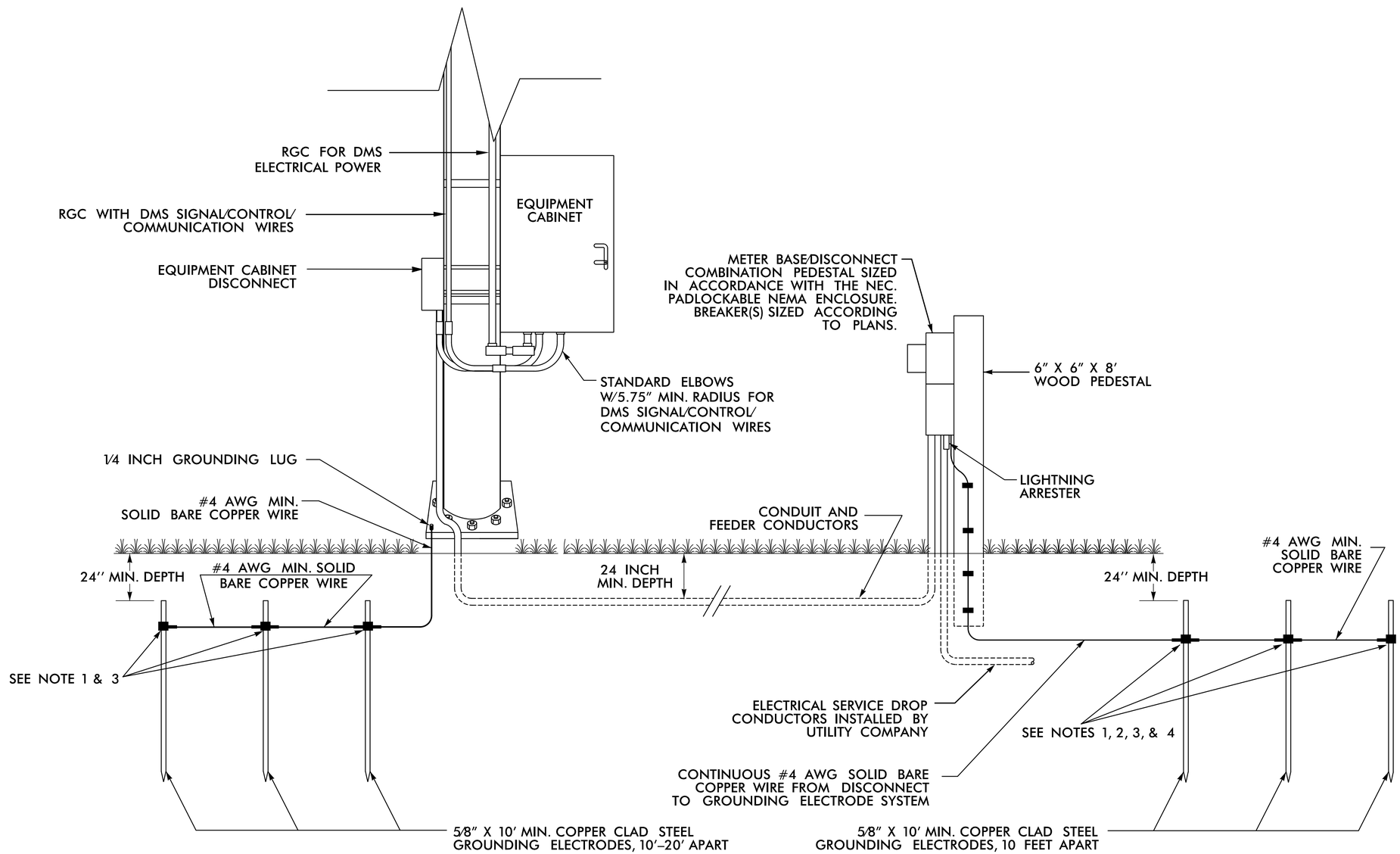
PROJECT REFERENCE NO.	SHEET NO.
C-5600H	ITS-31



NOTES

1. INSTALL A MINIMUM OF 3 GROUND RODS 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 SHALL MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUND RODS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
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 EQUIPMENT CABINET.

HNTB
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Plans Prepared for: Transportation Mobility and Safety Division, Intelligent Transportation Systems, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
250 N. Greenfield Pkwy., Garner, NC 27529

DYNAMIC MESSAGE SIGN 1
NEW ELECTRICAL SERVICE AND GROUNDING DETAIL

PLAN DATE:	AUGUST 2016	REVIEWED BY:	J.A. WAGNER
PREPARED BY:	T.R. TERRELL	REVIEWED BY:	H.L. WINSTEAD

SCALE	REVISIONS	INIT.	DATE
NONE			

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 07983 ENGINEER HARVEY L. WINSTEAD, JR.

DocuSigned by: H.L. Winstead, Jr. 8/31/2016
E53182981472674
SIGNATURE DATE

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