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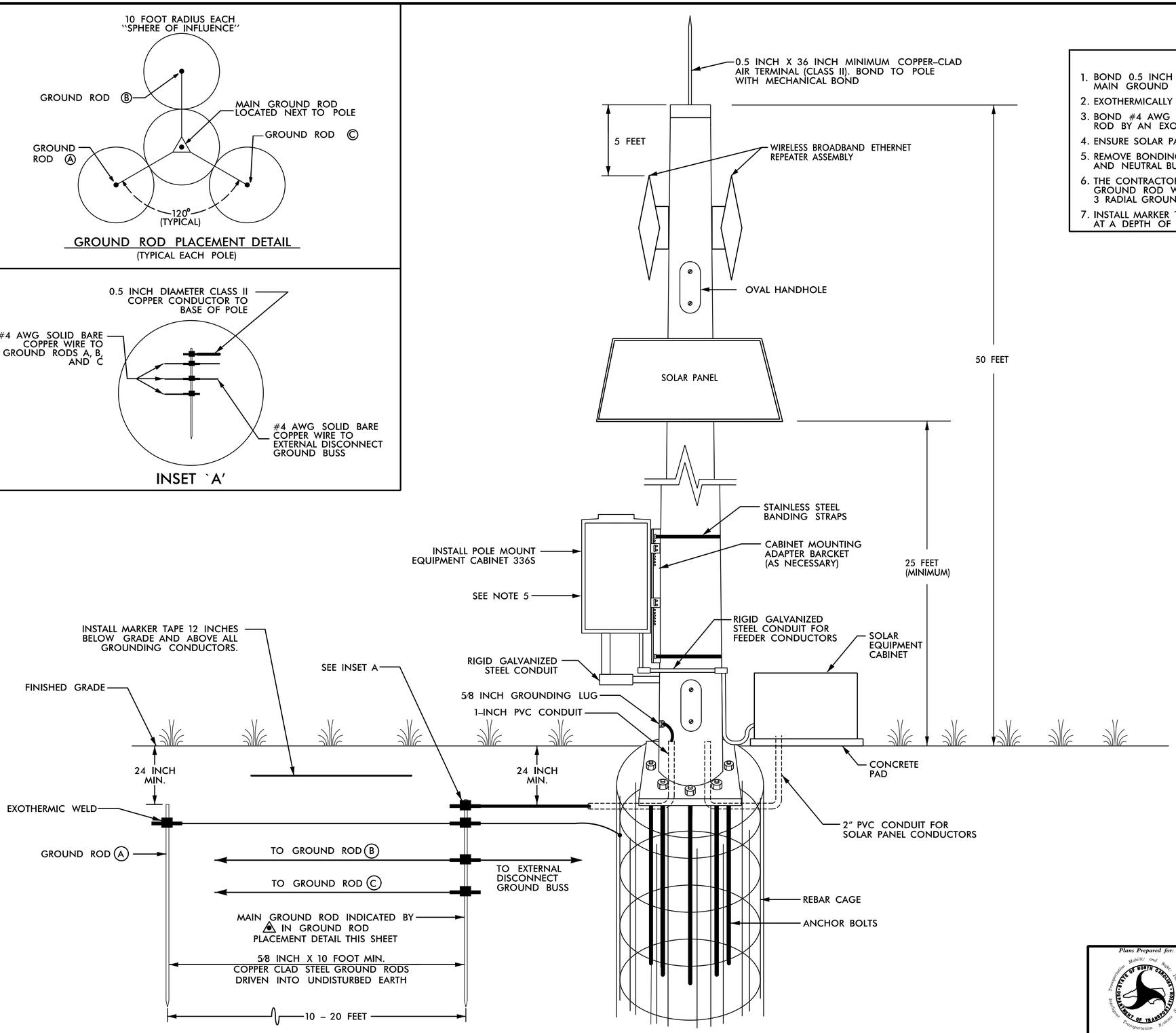
PROJECT REFERENCE NO.	SHEET NO.
C-5600G	ITS-43

GROUND ROD PLACEMENT DETAIL
(TYPICAL EACH POLE)

INSET `A'

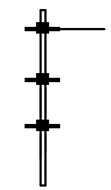


NOTES

1. BOND 0.5 INCH DIAMETER, 28 STRAND (MINIMUM) CLASS II COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD.
2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
3. BOND #4 AWG SOLID BARE COPPER WIRE TO REBAR CAGE AND THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD.
4. ENSURE SOLAR PANEL AND WIRELESS RADIOS ARE BONDED TO POLE.
5. REMOVE BONDING JUMPER, IF PRESENT, BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.
6. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 RADIAL GROUND RODS.
7. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.

ALTERNATE GROUNDING METHOD

IF SPACE IS NOT AVAILABLE TO DRIVE MULTIPLE RODS, DRIVE SECTIONAL GROUND RODS A MINIMUM OF 30 FEET.



JOIN SECTIONAL GROUND RODS BY EXOTHERMIC WELDING CONNECTION

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

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UNLESS ALL SIGNATURES COMPLETED

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

WIRELESS REPEATER
ON METAL POLE WITH
SOLAR PANEL ASSEMBLY

PLAN DATE:	JUNE 2016	REVIEWED BY:	A.D. KLINKSIEK
PREPARED BY:	T.R. TERRELL	REVIEWED BY:	H.L. WINSTEAD

SCALE: NONE

REVISIONS	INIT.	DATE

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

DocuSigned by: H.L. Winstead, Jr. 6/29/2016
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SIGNATURE DATE

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