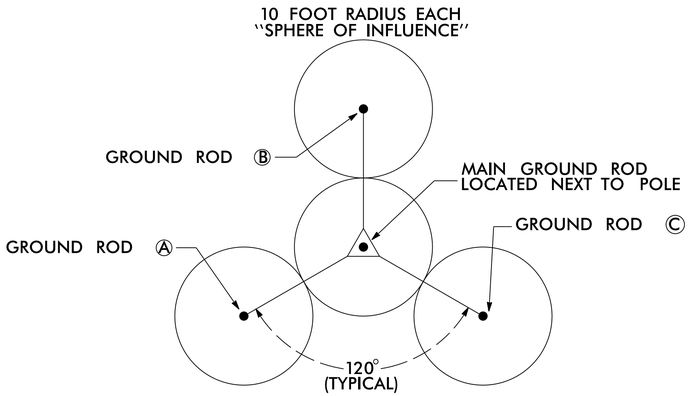
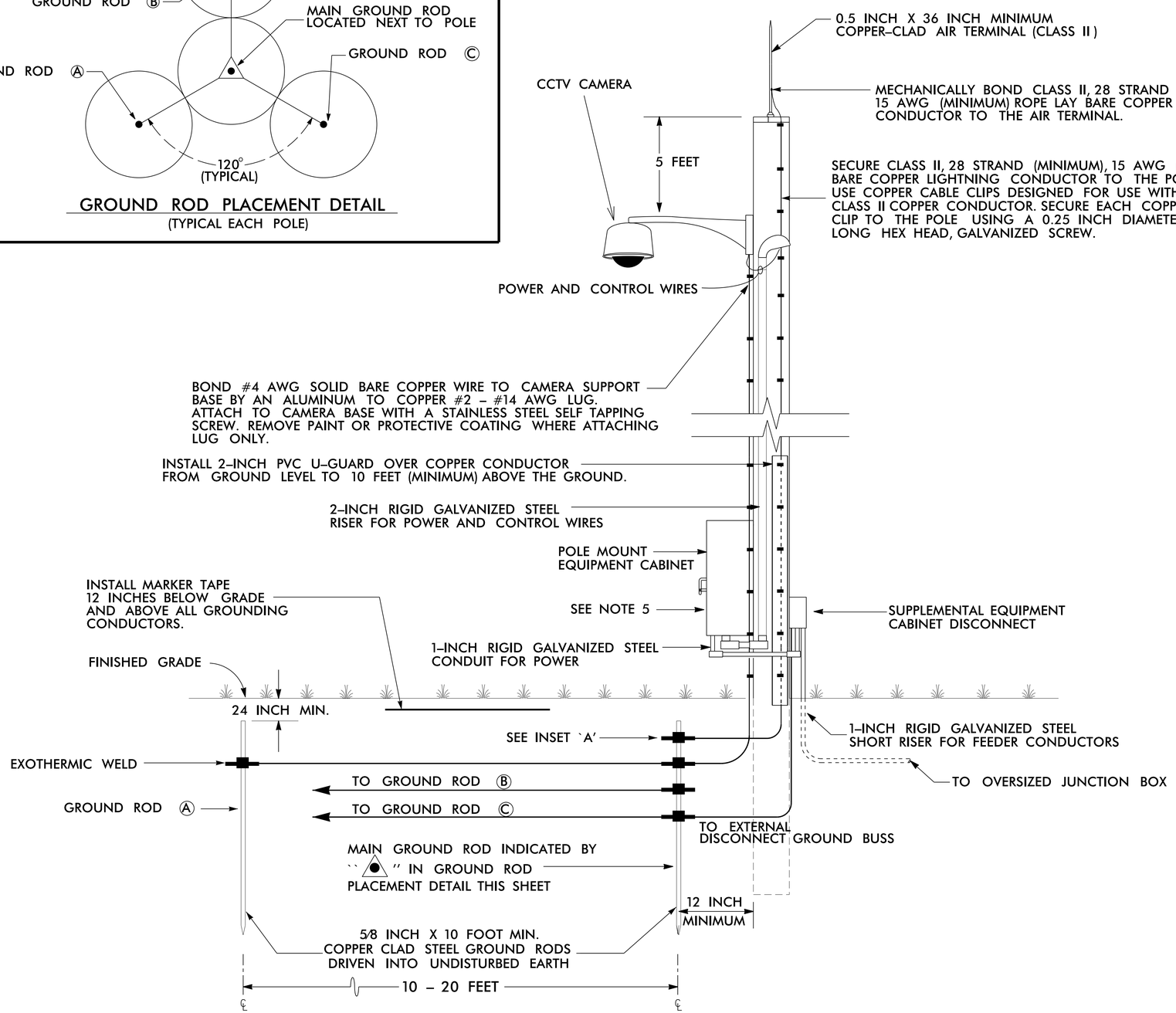
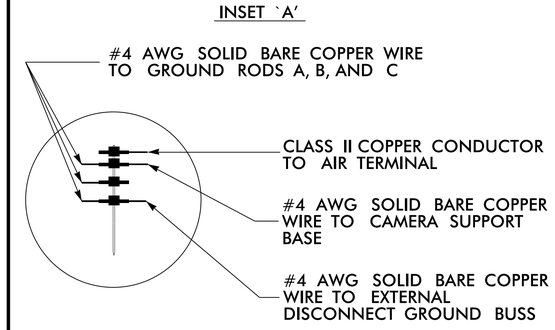
PROJECT REFERENCE NO.	SHEET NO.
B-5103	SCP. 3



GROUND ROD PLACEMENT DETAIL

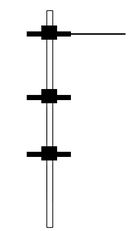
(TYPICAL EACH POLE)





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

NOTES

1. BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE–LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
3. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30–FOOT SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 – RADIAL GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.

Prepared in the Offices of:

STATE OF NORTH CAROLINA Department of Transportation Mobility and Traffic Engineering Transportation Systems Section

750 N. Greenfield Pkwy., Garner, NC 27529

CCTV CAMERA INSTALLATION
FOR WOOD POLES WITH
UNDERGROUND FEEDER CONDUCTORS
TYPICAL DETAIL

DIVISION 3 NEW HANOVER CO. WILMINGTON

PLAN DATE:	OCTOBER 2014	REVIEWED BY:	Neil Avery
PREPARED BY:	P.C. LOUDER	REVIEWED BY:	09F5DB4CBED3443...

SCALE 0

REVISIONS	INIT.	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 023919 ENGINEER GREGORY A. FULLER

DocuSigned by:
Gregory A. Fuller 11/4/2014
DocuSigned by: SIGNATURE DATE

CADD Filename: