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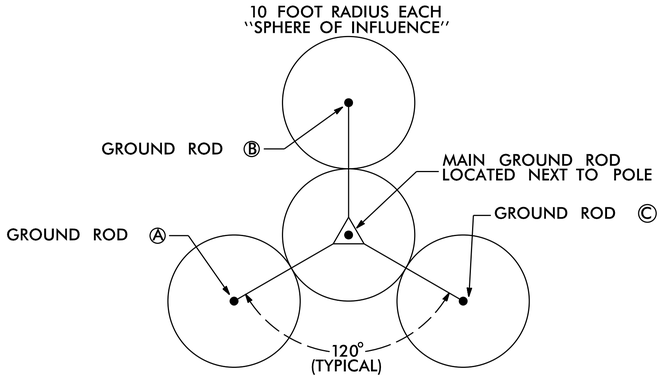
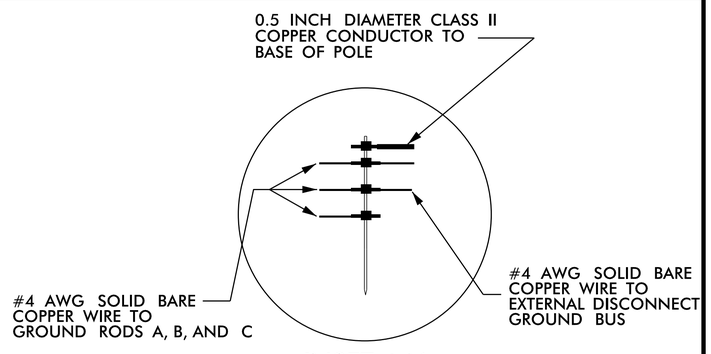
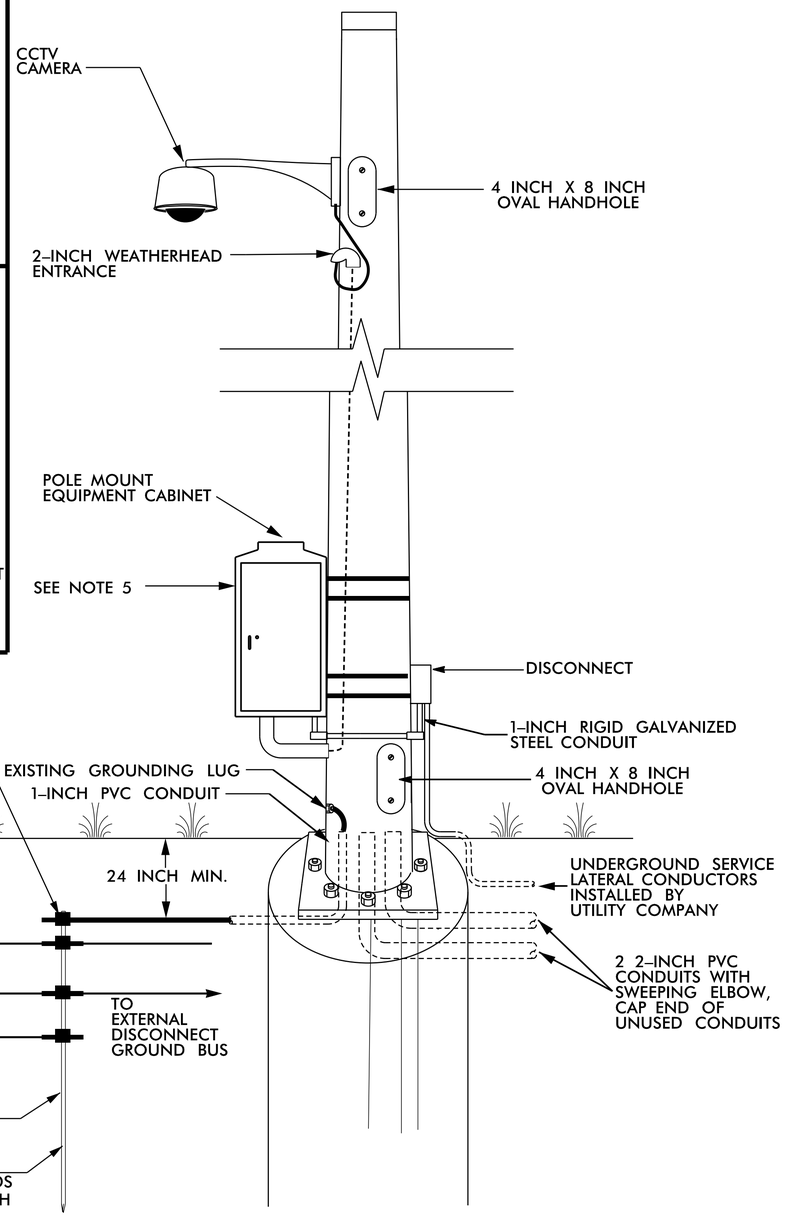
PROJECT REFERENCE NO.	SHEET NO.
U-2579B	ITS-48

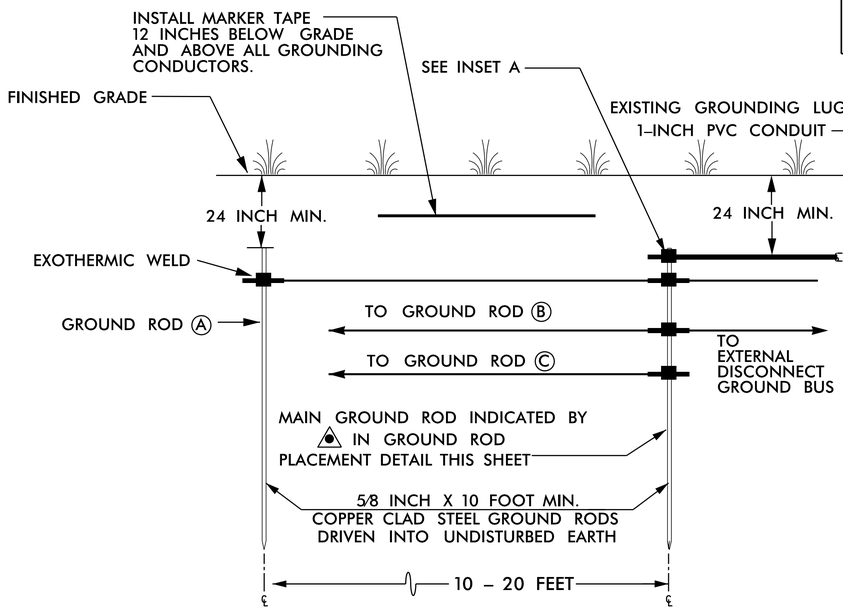


GROUND ROD PLACEMENT DETAIL
(TYPICAL EACH POLE)



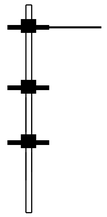
INSET `A'





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 0.5 INCH DIAMETER, 28 STRAND (MINIMUM) CLASS II COPPER CONDUCTOR TO THE MAIN GROUND ROD BY A MECHANICAL 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 CAMERA HOUSING, CAMERA, AND PAN –TILT UNIT ARE BONDED TO POLE.
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUS AND NEUTRAL BUS.
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.
8. INSTALL AIR TERMINAL ONLY ON PROPOSED CCTV POLE INSTALLATIONS.

ATKINS
5200 77 CENTER DR, SUITE 500
CHARLOTTE, NC 28217
704.665.4411 NCBEES #F-0326

Prepared in the Offices of:
750 N. Greenfield Pkwy., Garner, NC 27529

CCTV Camera Installation,
Metal Poles U/G Elec. Service

DIVISION 09 FORSYTH CO KERNERSVILLE

PLAN DATE:	JUNE 2014	REVIEWED BY:	HAB
PREPARED BY:	BJS	REVIEWED BY:	JTB

SCALE

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 019962 ALFRED BADGETT JR.

DocuSigned by:
Alf Badgett 6/9/2014
SIGNATURE DATE

CADD Filename: S01_Metal CCTV Pole.dgn