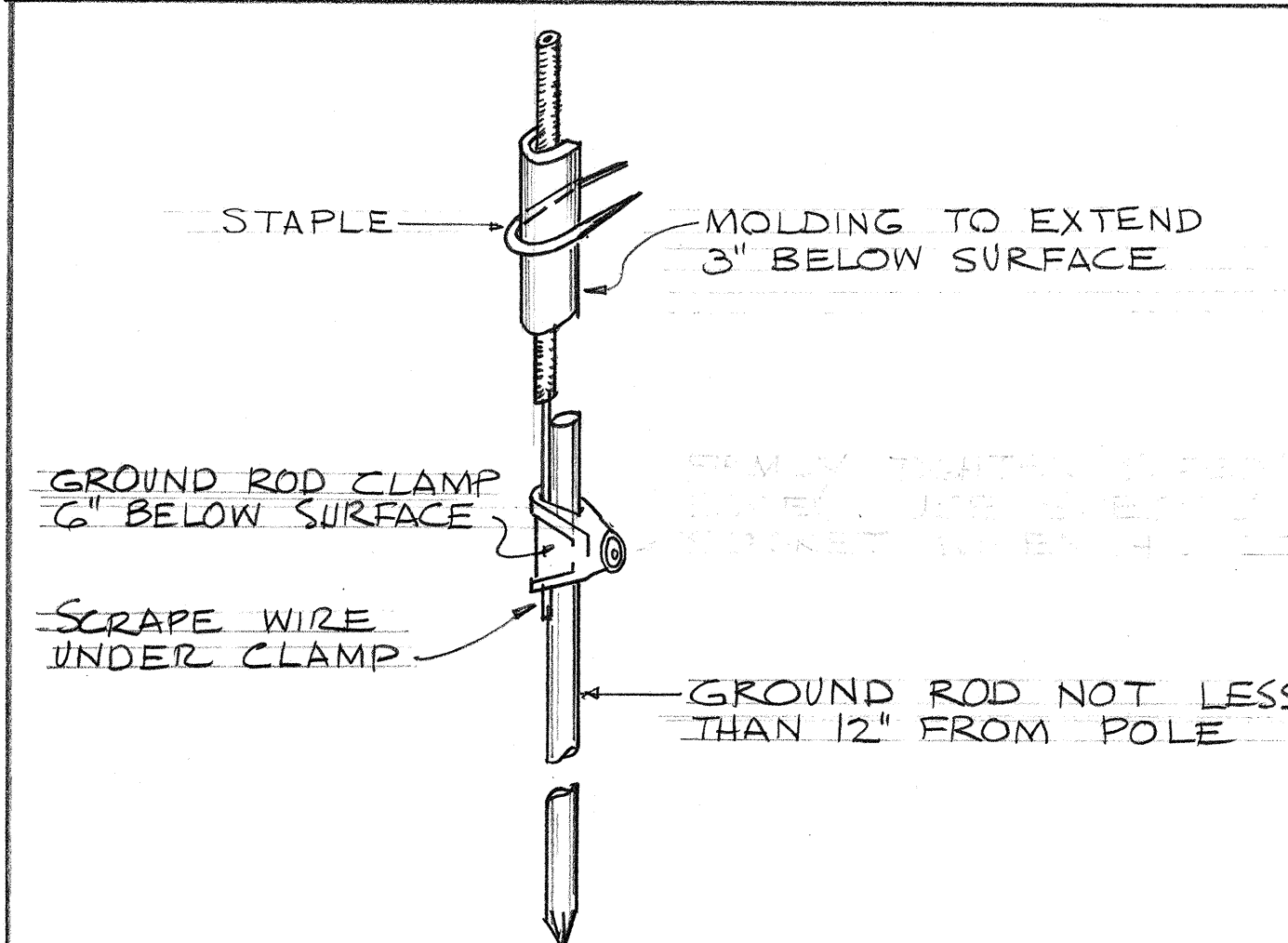
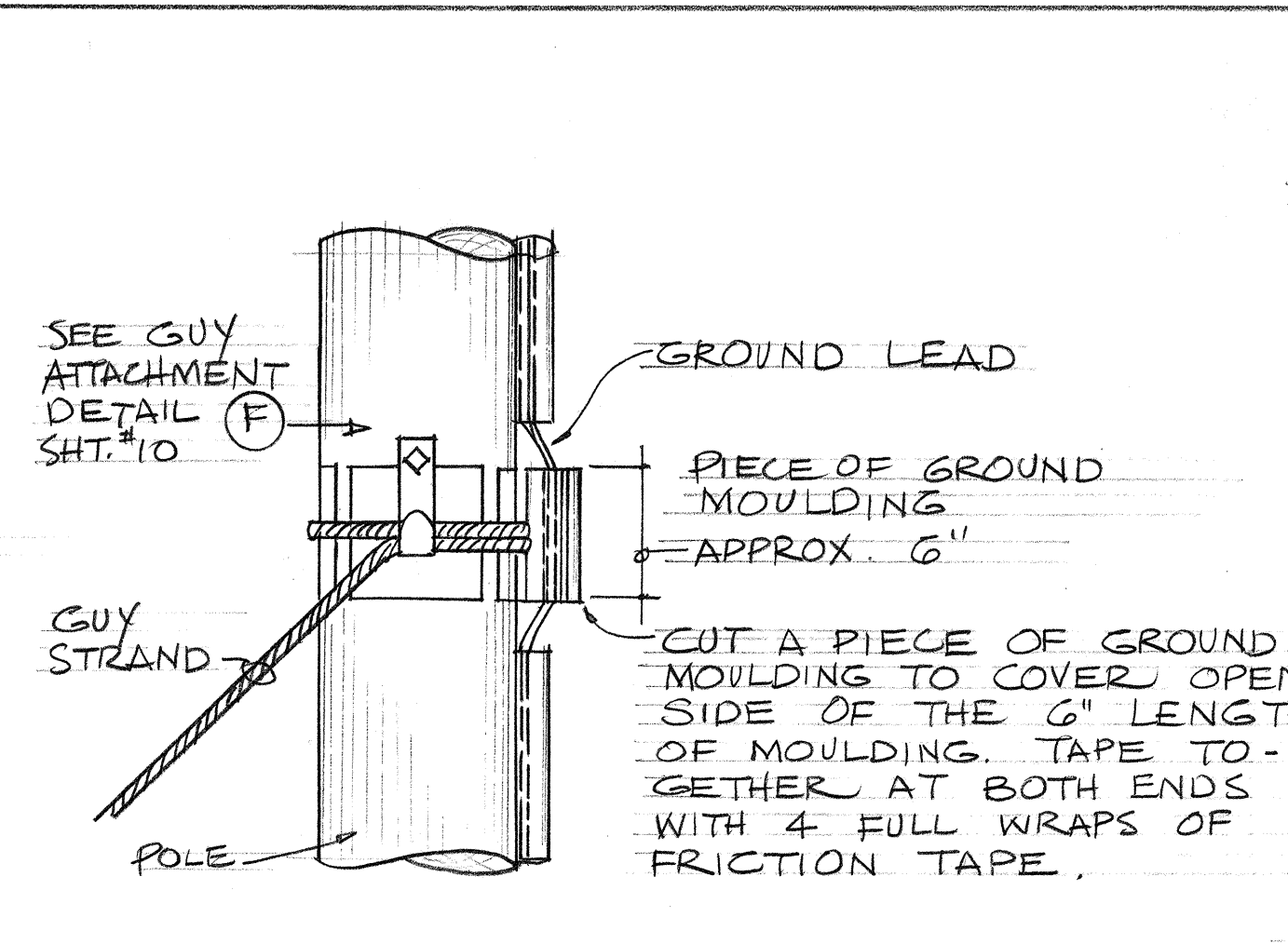
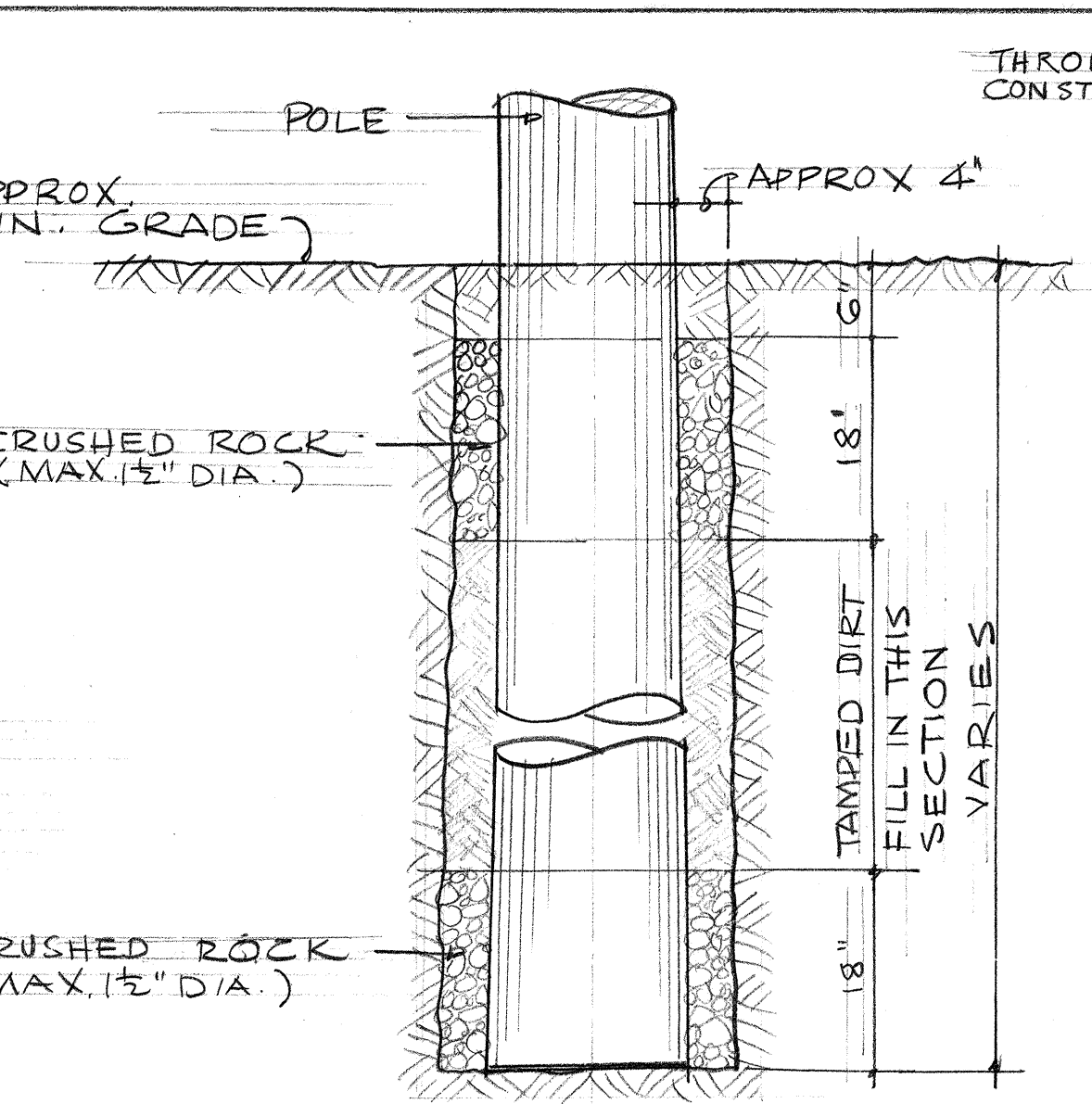




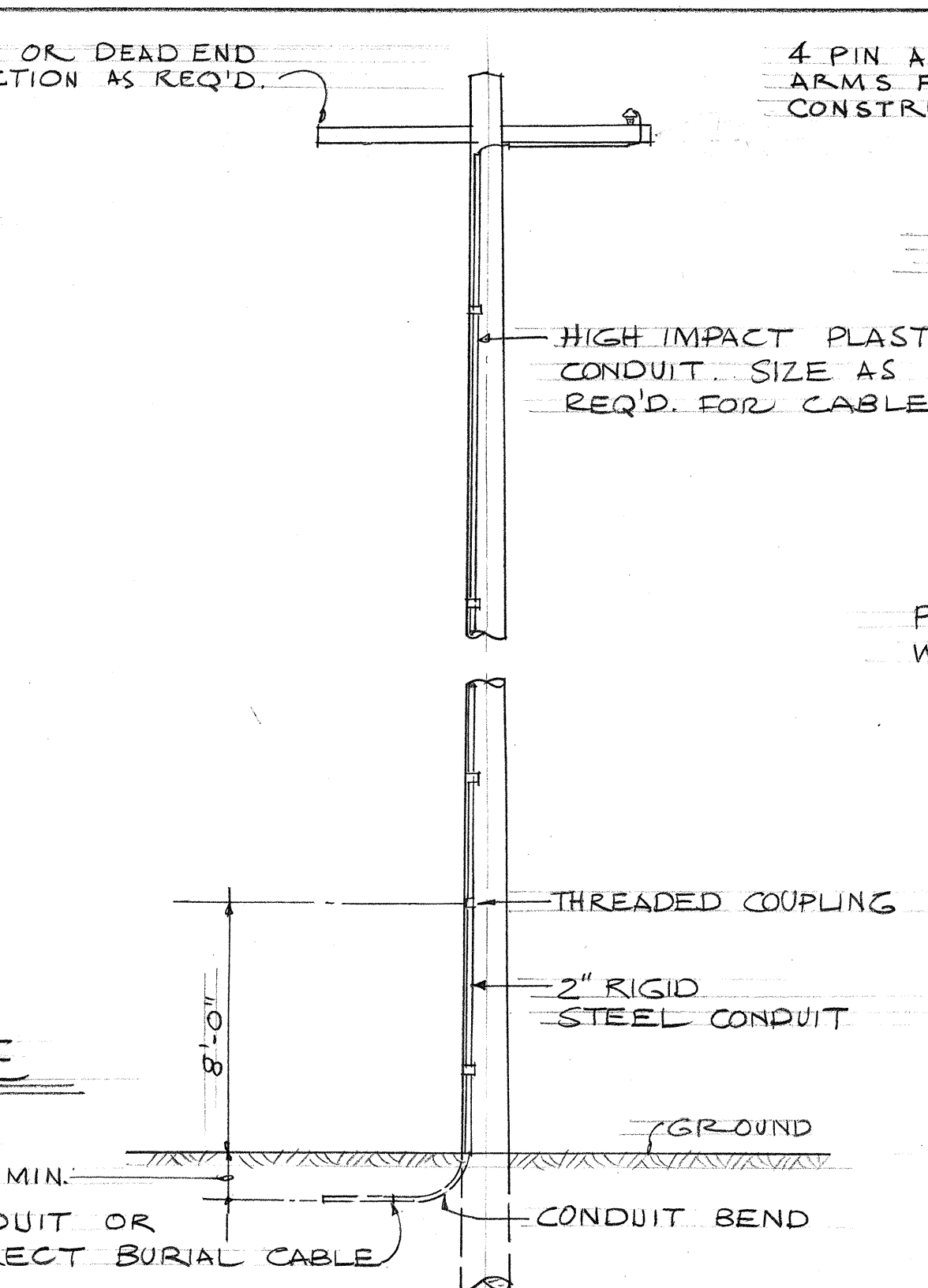
TYPICAL GROUND ROD DETAIL (11A)
NOT TO SCALE:



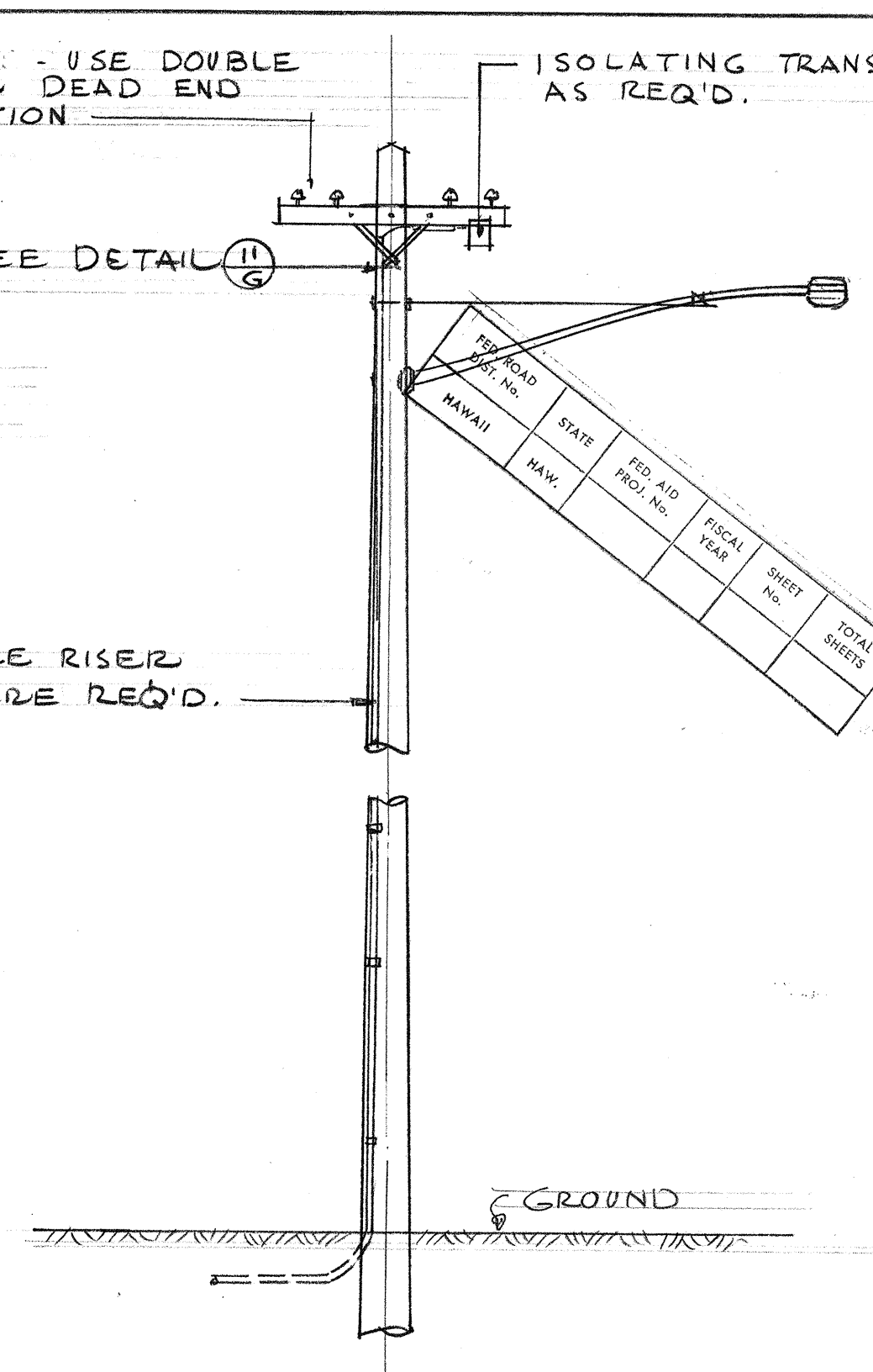
GROUND GUY CONFLICT DETAIL (11B)
NOT TO SCALE:



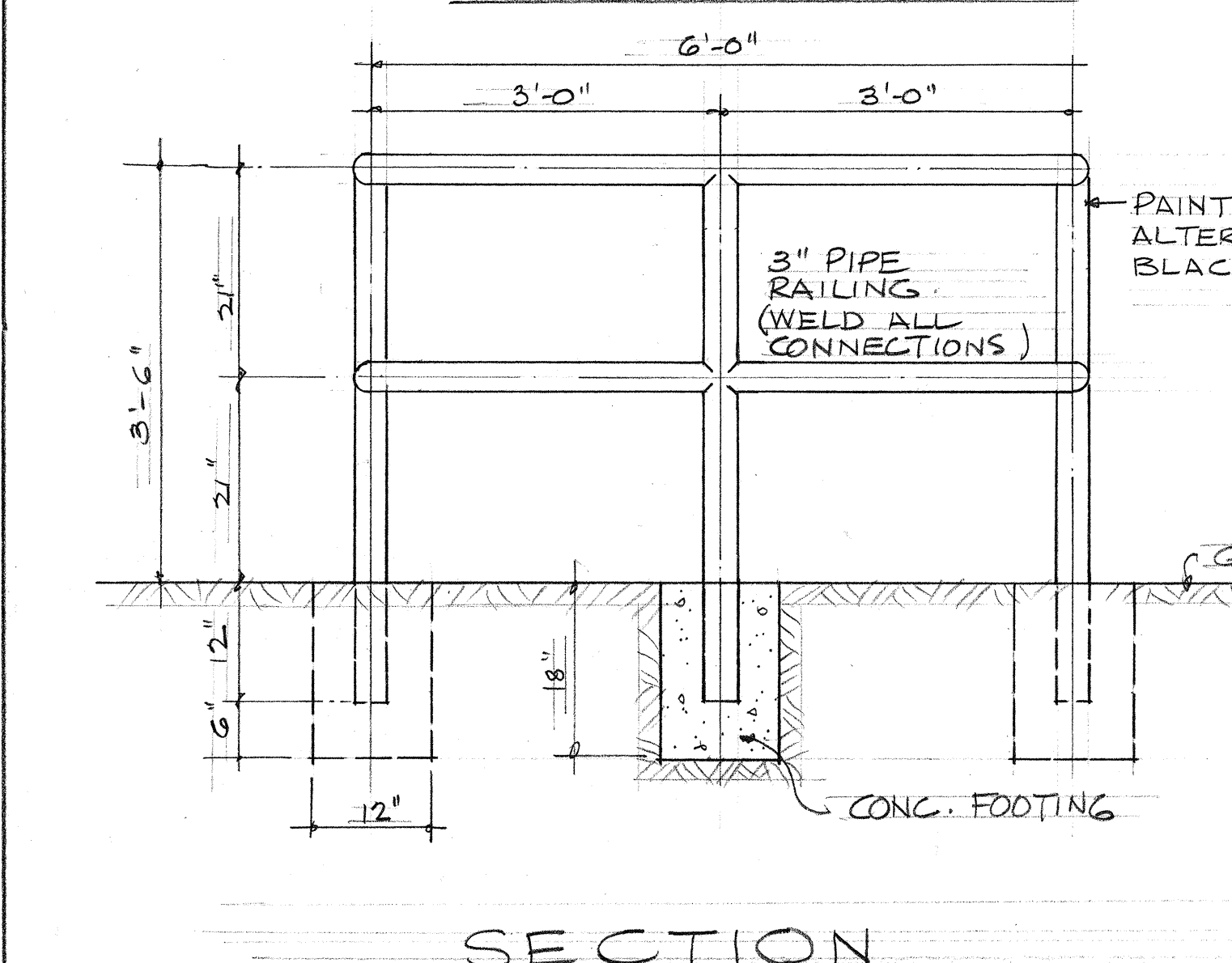
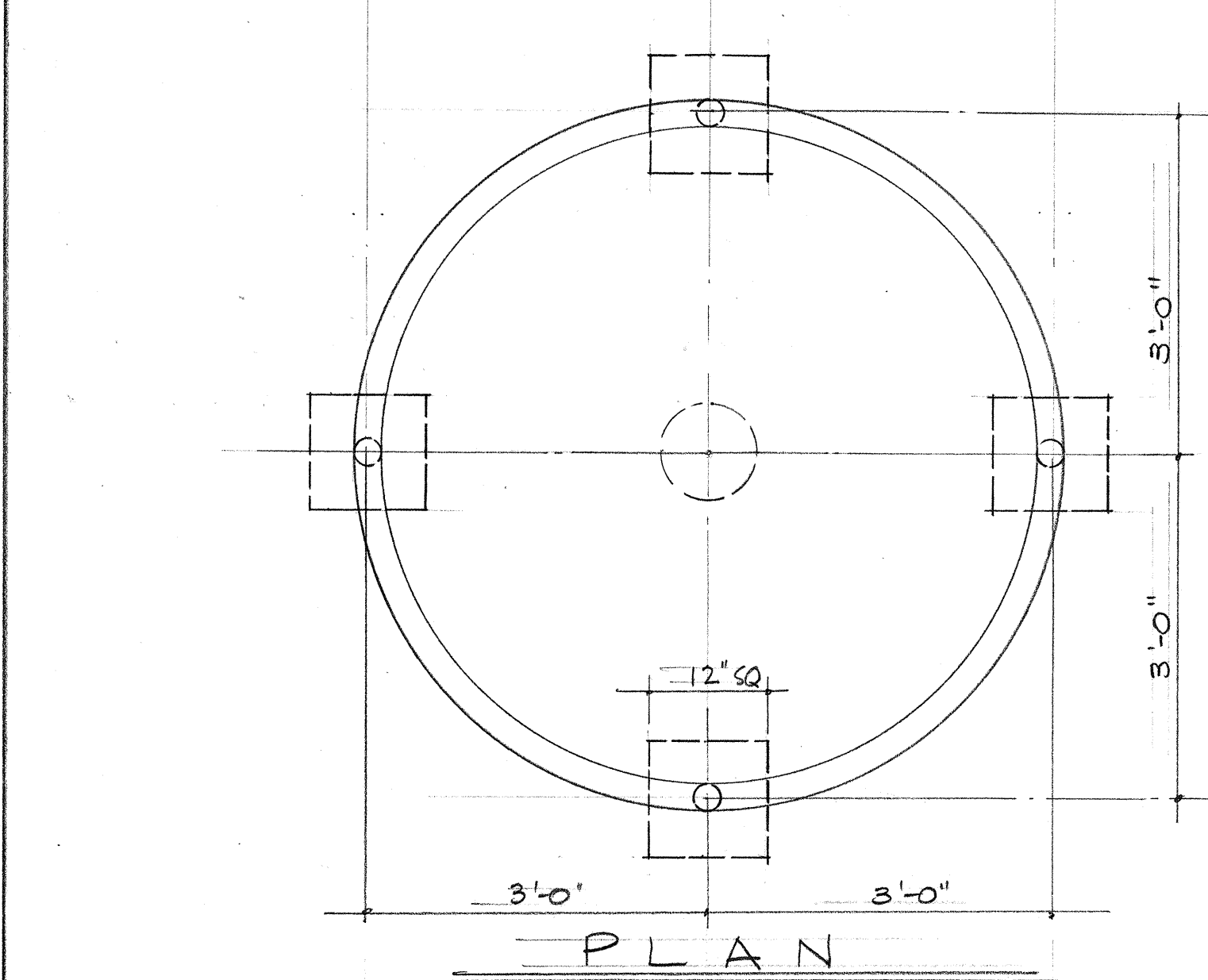
SELF-SUSTAINED POLE DETAIL (11C)



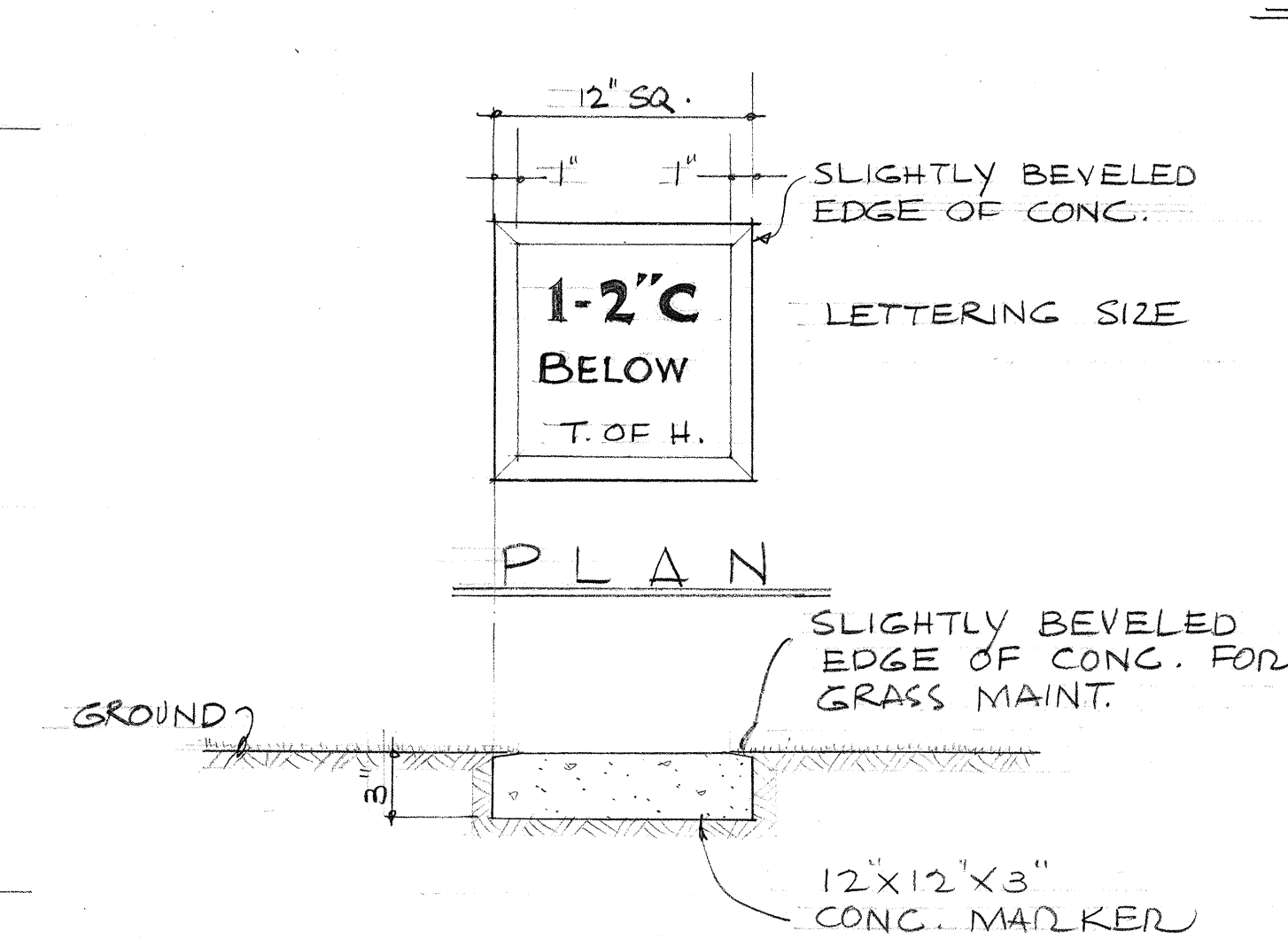
HIGHWAY LIGHTING POLE RISER DETAIL (11F)
NOT TO SCALE:



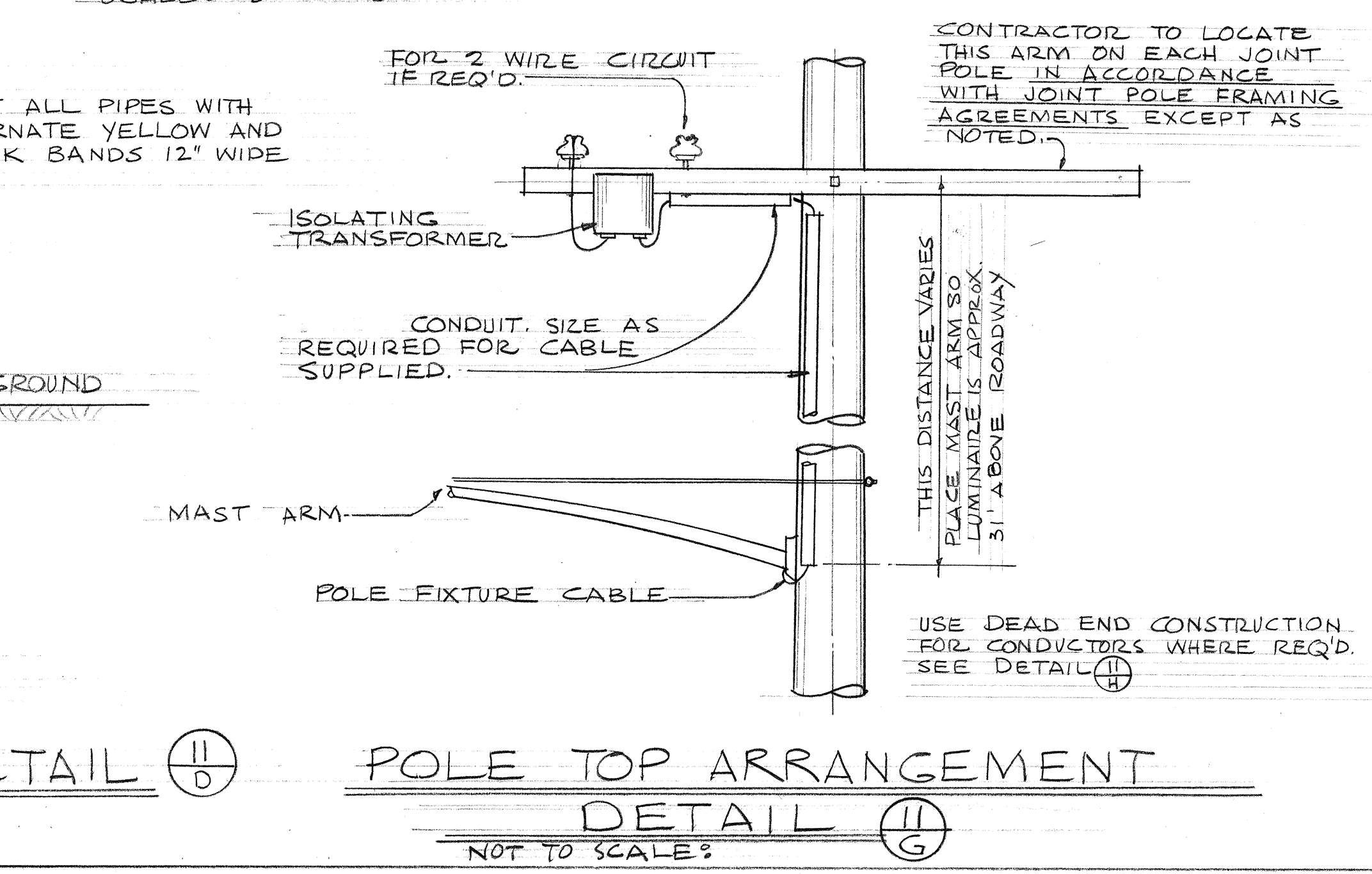
CONTRACTOR INSTALLED POLE DETAIL (11I)
NOT TO SCALE:



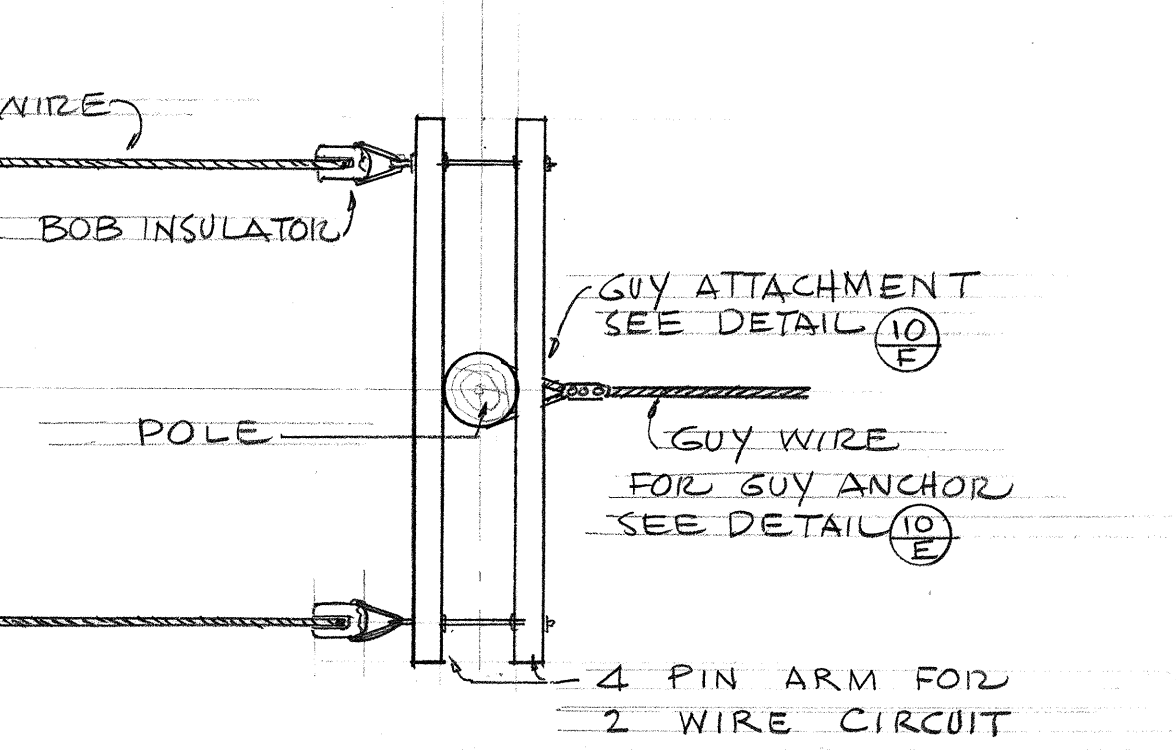
PIPE GUARD FOR POLE DETAIL (11D)
SCALE: 3/4" = 1'-0"



SECTION CONDUIT MARKER (11E)
SCALE: 1 1/2" = 1'-0"



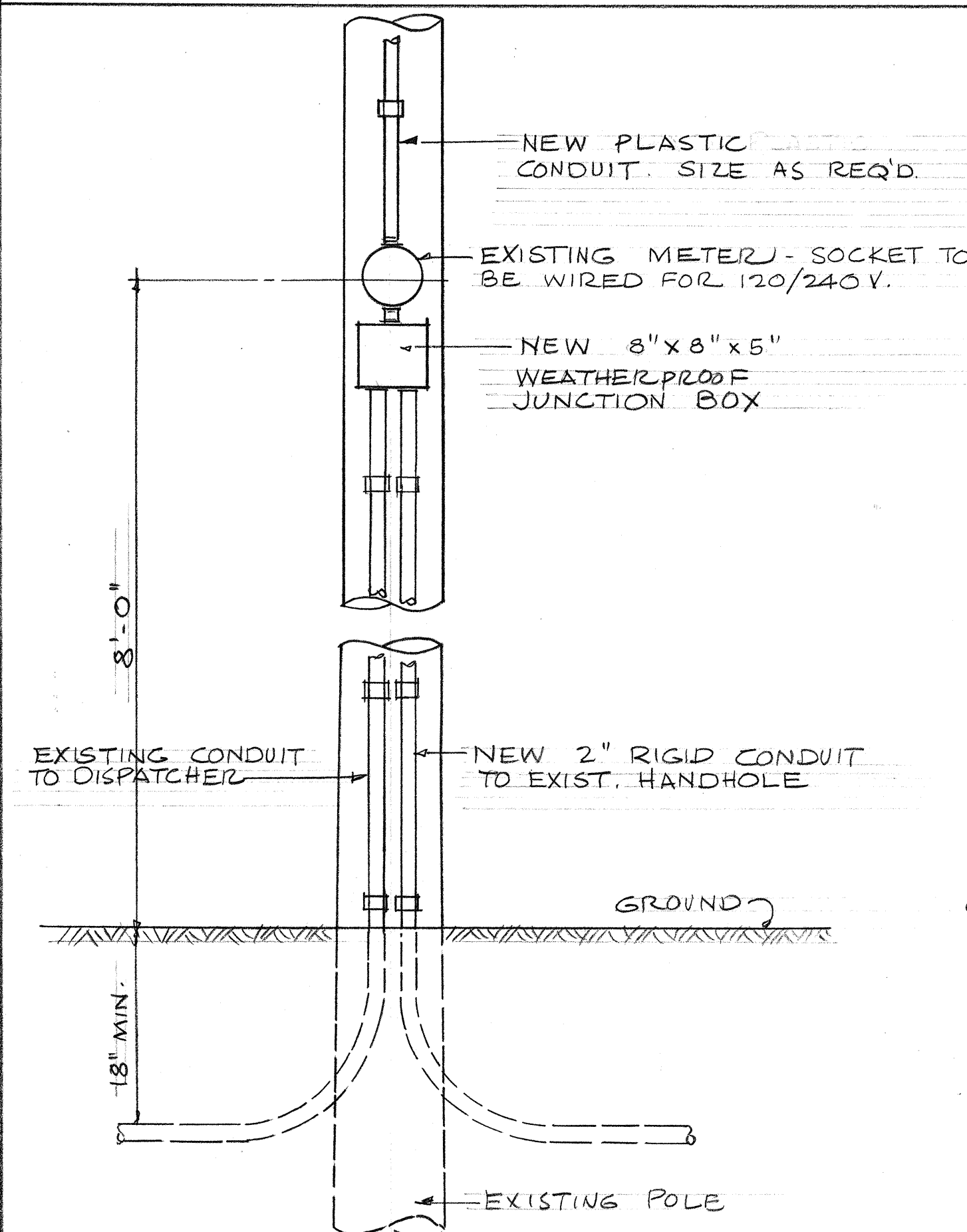
POLE TOP ARRANGEMENT DETAIL (11G)
NOT TO SCALE:



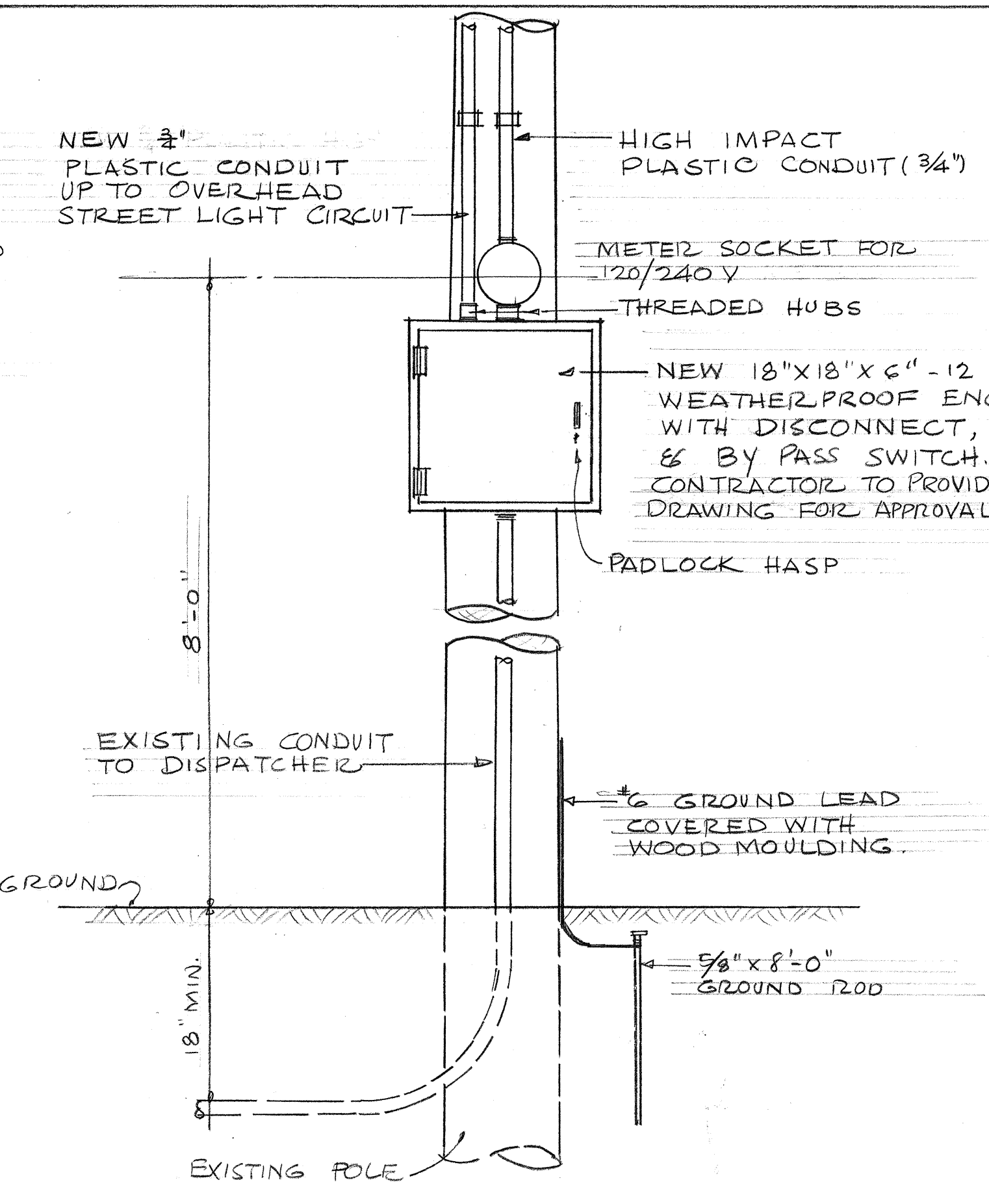
DEAD END DETAIL (11H)
NOT TO SCALE:



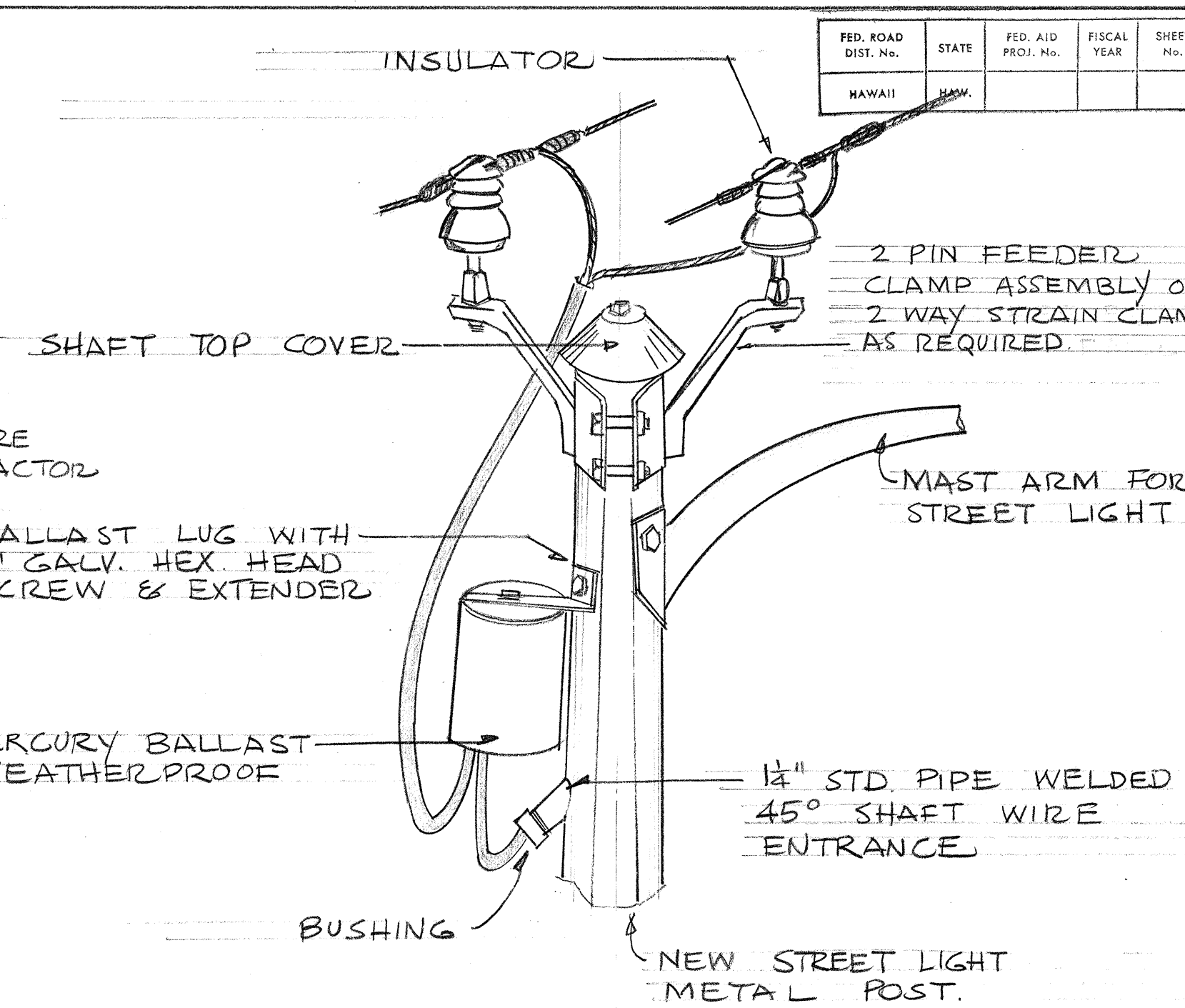
TERRITORIAL HIGHWAY DEPARTMENT TERRITORY OF HAWAII	
INTERSECTION LIGHTING MISC. DETAILS	
JAMES J. OBERHAUSEN ELECTRICAL ENGINEER	PROJECT NO. _____ SCALE: AS SHOWN DATE: _____
SHEET NO. ____ OF ____ SHEETS	



DETAIL (12) A
NOT TO SCALE



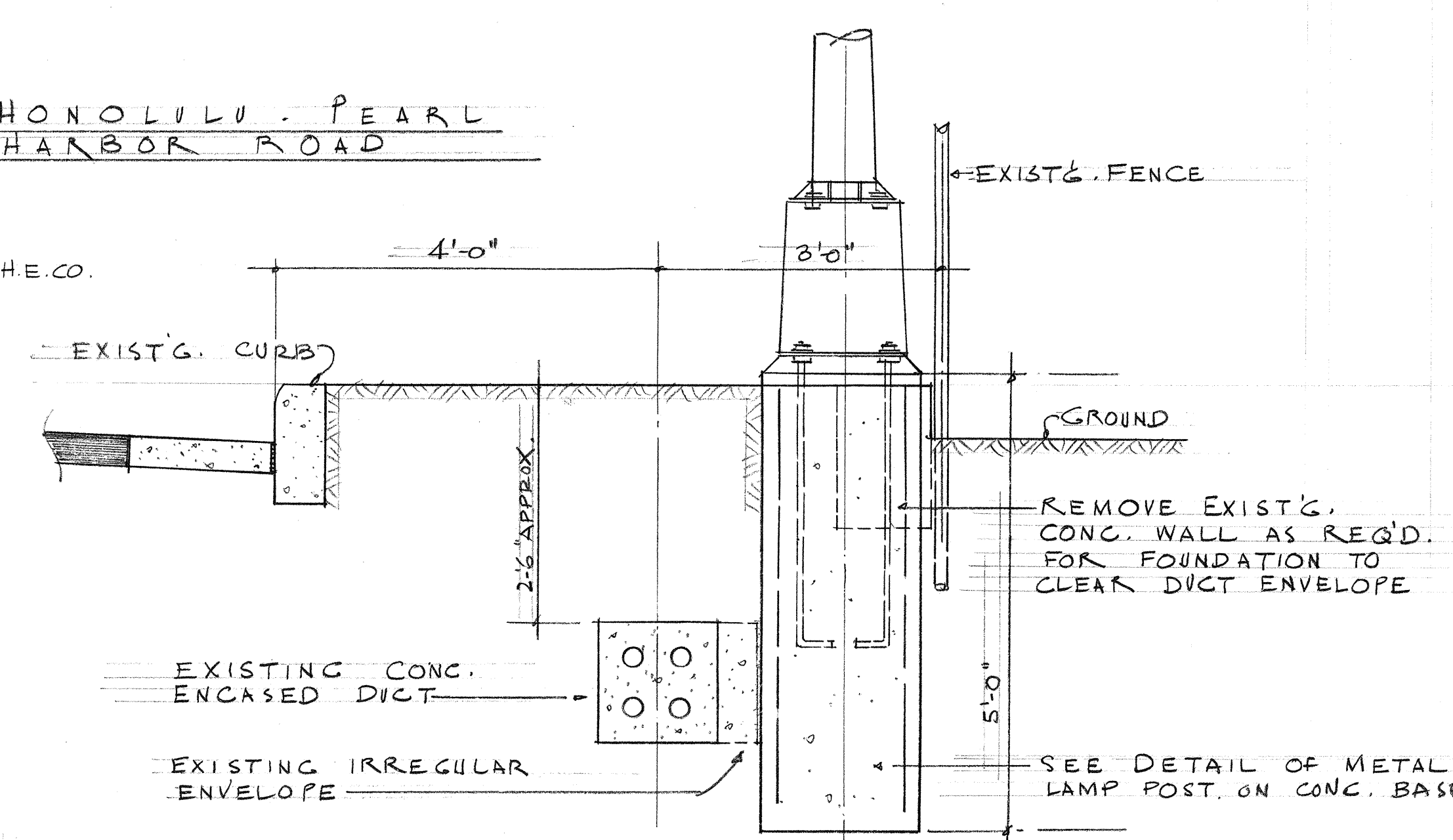
DETAIL (12) B
NOT TO SCALE



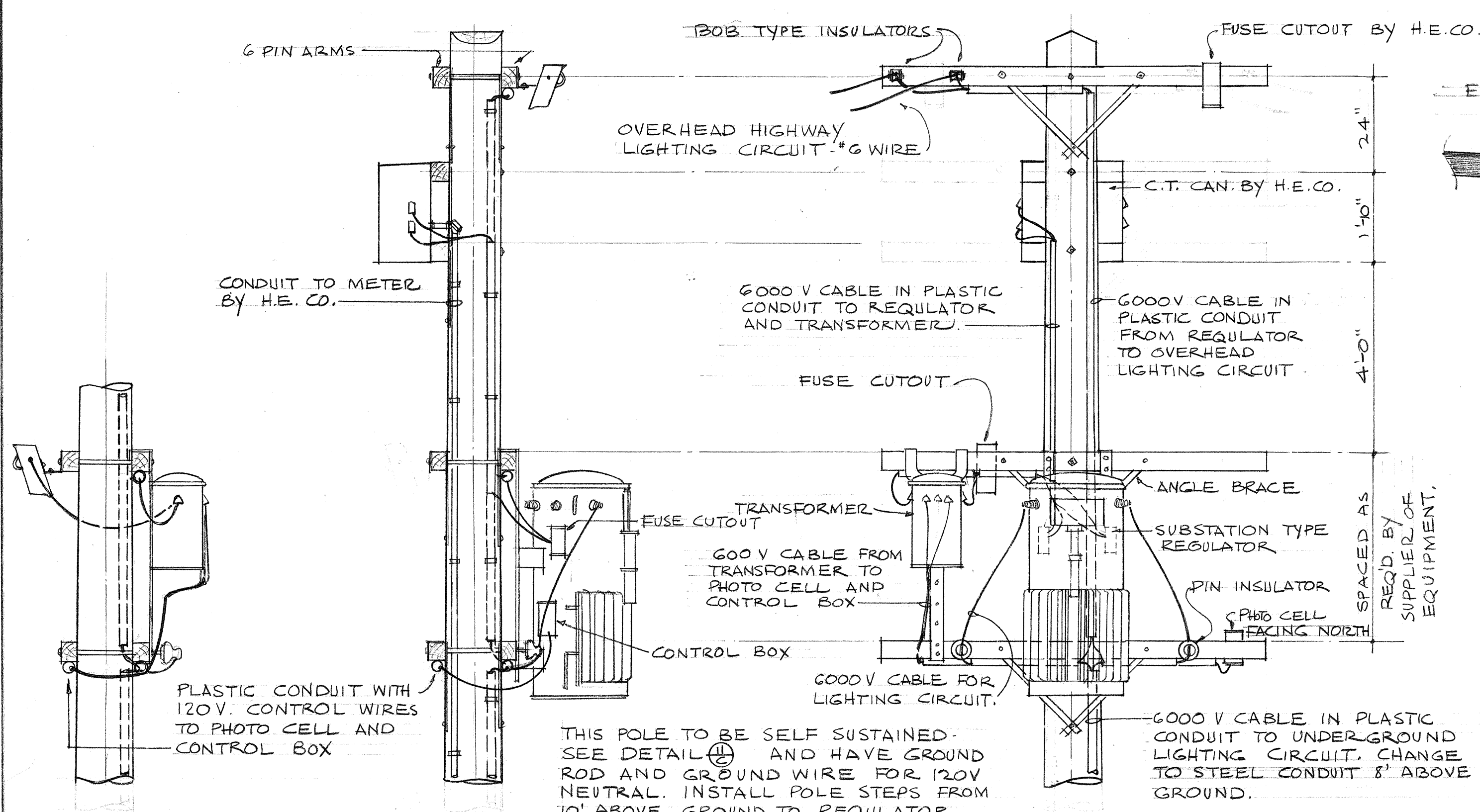
METAL LAMP POST WITH OVERHEAD WIRING (12) C
NOT TO SCALE

- | FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | | | | |
- ELECTRICAL SYMBOLS**
- ¹² LUMINAIRE ON METAL LAMP POST - NUMERAL INDICATES BRACKET LENGTH.
 - ¹⁶ LUMINAIRE AND MAST ARM TO BE INSTALLED ON EXIST. JOINT POLE - NUMERAL INDICATES BRACKET LENGTH.
 - ¹⁵ LUMINAIRE AND MAST ARM ON NEW WOOD POLE - NUMERAL INDICATES BRACKET LENGTH.
 - 20,000 LUMEN MERCURY VAPOR LUMINAIRE.
 - 11,000 LUMEN MERCURY VAPOR LUMINAIRE.
 - 300 WATT INCANDESCENT LUMINAIRE (6000 LUMEN)
 - 2C— DIRECT BURIAL CABLE FOR SERIES CIRCUIT, 2C INDICATES 2 CABLE - 1C INDICATES 1 CABLE.
 - 2C--- CABLE IN CONDUIT (OR DUCT); FOR SERIES CIRCUIT 2C INDICATES 2 CABLES, 1C INDICATES 1 CABLE. FOR MULTIPLE CIRCUITS ALL CABLE IS 2 CONDUCTOR.
 - 2W— OVERHEAD WIRE - FOR SERIES CIRCUIT 2W INDICATES 2 CONDUCTORS, 1W INDICATES 1 CONDUCTOR. FOR MULTIPLE CIRCUITS ALL SPANS CONTAIN 2 CONDUCTORS.
 - ☒ HANDHOLE.
 - G' BACK DISTANCE FROM CENTERLINE OF LAMP POST OR POLE TO FACE OF CURB.
 - DUCT MARKER AT END OF CONDUIT OR DUCT.
 - GUY AND ANCHOR.
- NOTE:** FOR SYMBOLS OF EXISTING CONDITIONS, SEE SHEET #3.

HONOLULU - PEARL HARBOR ROAD



METAL LAMP POST CONC. BASE DETAIL (12) D
SCALE: 3/4" = 1'-0"



40' METER & CONTROL POLE (12) E
SCALE: 1/2" = 1'-0"



JAMES J. OBERHAUSEN
ELECTRICAL ENGINEER

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

INTERSECTION LIGHTING ELECTRICAL SYMBOLS & MISC. DETAILS

PROJECT NO. _____
SCALE: AS SHOWN DATE: _____

SHEET NO. _____ OF SHEETS