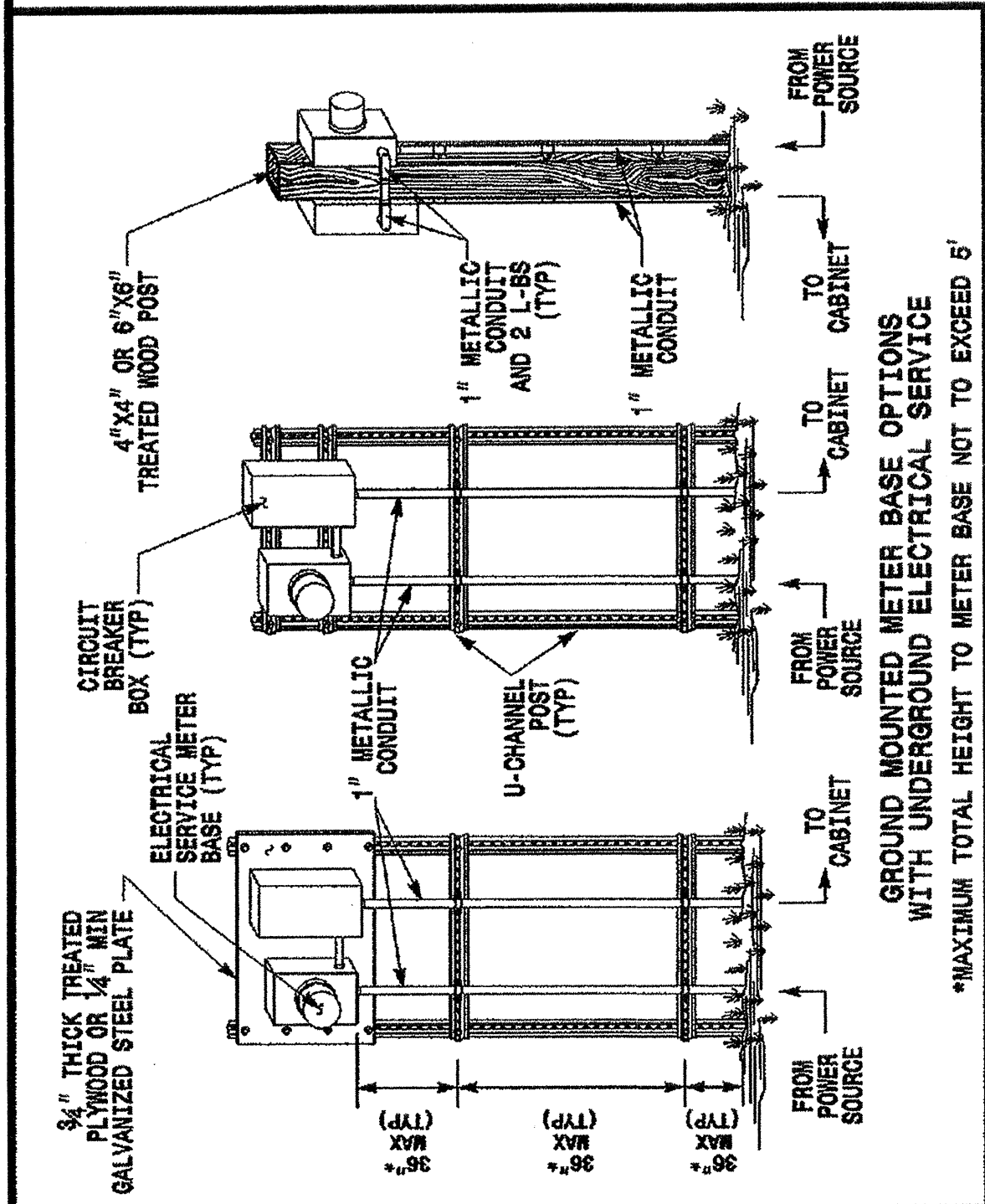
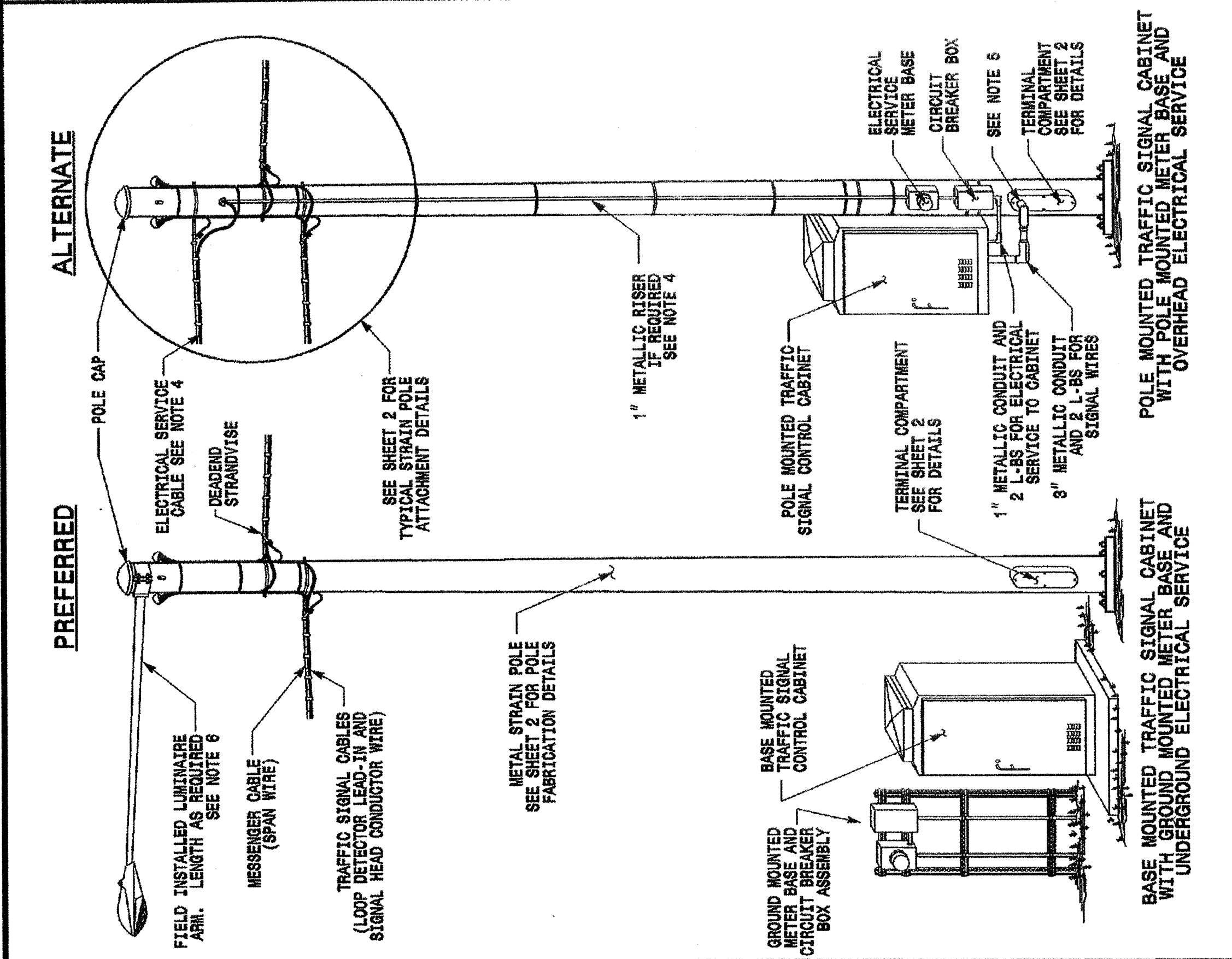


STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR METAL POLES ELECTRICAL SERVICE AND SIGNAL CABINET MOUNTING OPTIONS

SHEET 1 OF 3 1740.01



GENERAL NOTES

- WHEN TRAFFIC SIGNALS ARE INSTALLED USING METAL SIGNAL SUPPORTS, METER BASE MOUNTING OPTIONS ARE THE PREFERRED CABINET OPTION. ROUTE POWER SOURCE UNDERGROUND AND USE GROUND MOUNTING OPTIONS SHOWN ABOVE TO INSTALL METER BASE AND CIRCUIT BREAKER BOX IF POSSIBLE.
- LOCATE THE METER BASE ASSEMBLY NEAR THE SIGNAL CABINET IN A MANNER THAT WILL ALLOW EASY ACCESS TO THE CIRCUIT BREAKER BOX.
- INSTALL METER BASE ASSEMBLIES AS SHOWN ABOVE. ENSURE ALL METALLIC CONNECTIONS ARE PROPERLY MADE BETWEEN ALL METALLIC PARTS. REFER TO ROADWAY STANDARD DRAWING 175.02 FOR ELECTRICAL SERVICE DETAILS.
- INSTALL ELECTRICAL SERVICE ENTRANCE CONDUCTOR AS SHOWN WHEN UNDERGROUND SOURCE IS NOT AN OPTION. METER BASE AND CIRCUIT BREAKER BOX MAY BE INSTALLED ON THE POLE WHEN POLE MOUNTED CABINETS ARE REQUIRED FOR THE INSTALLATION. SEE SHEET 2 FOR ADDITIONAL INSTALLATION DETAILS.
- FOR POLE MOUNTED CABINETS, USE A FACTORY DRILLED HOLE IN THE TERMINAL COMPARTMENT TO PROVIDE ACCESS FOR SIGNAL WIRES ENTERING THE POLE FROM THE CABINET. FIELD DRILLED HOLES ARE ACCEPTABLE ONLY IF APPROVED BY THE ENGINEER.
- SEE ROADWAY STANDARD DRAWING 1408.01 (LIGHT STANDARD LUMINAIRES) FOR LUMINAIRE INSTALLATIONS.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

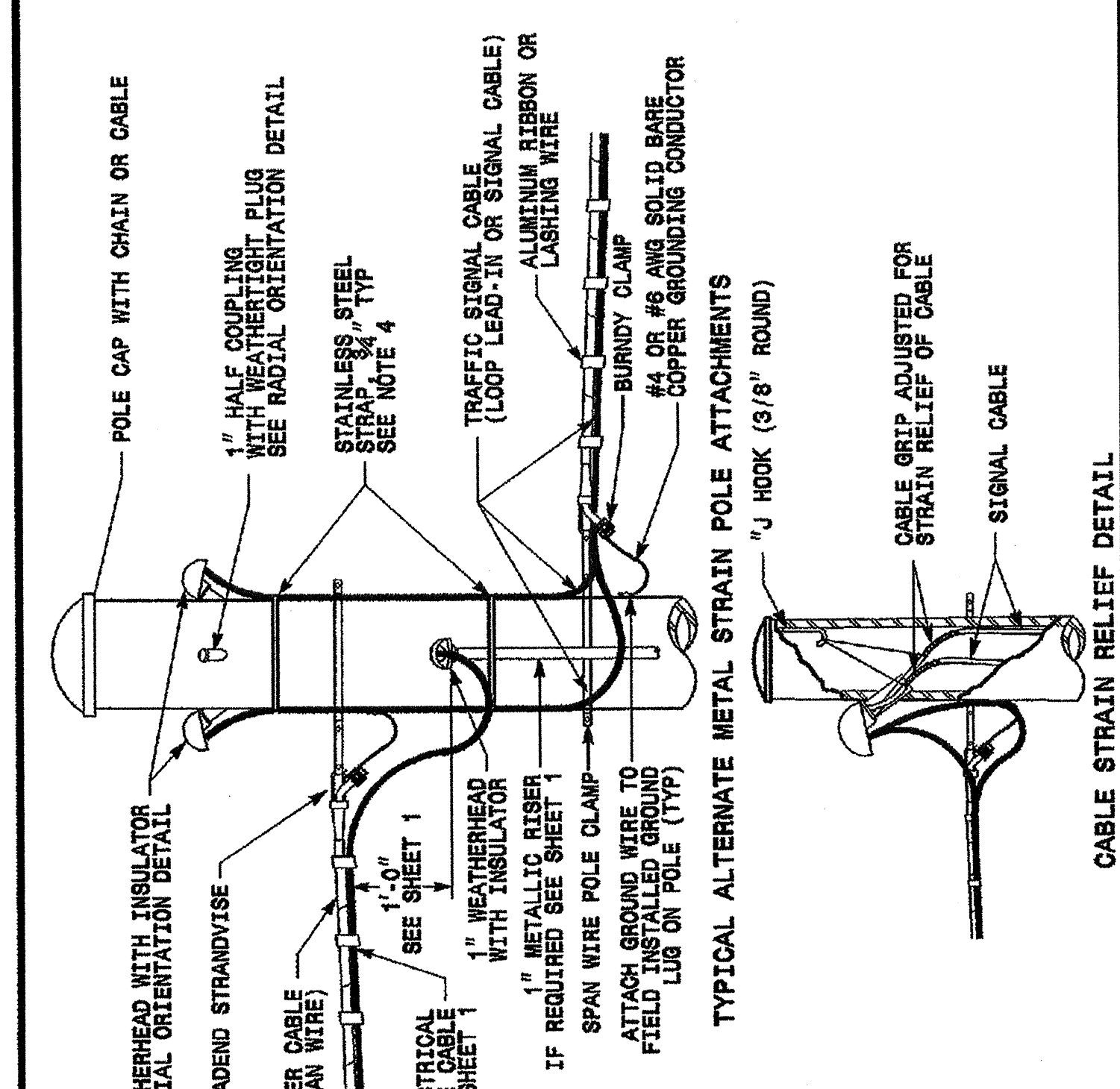
ENGLISH STANDARD DRAWING FOR METAL POLES ELECTRICAL SERVICE AND SIGNAL CABINET MOUNTING OPTIONS

SHEET 1 OF 3 1740.01

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

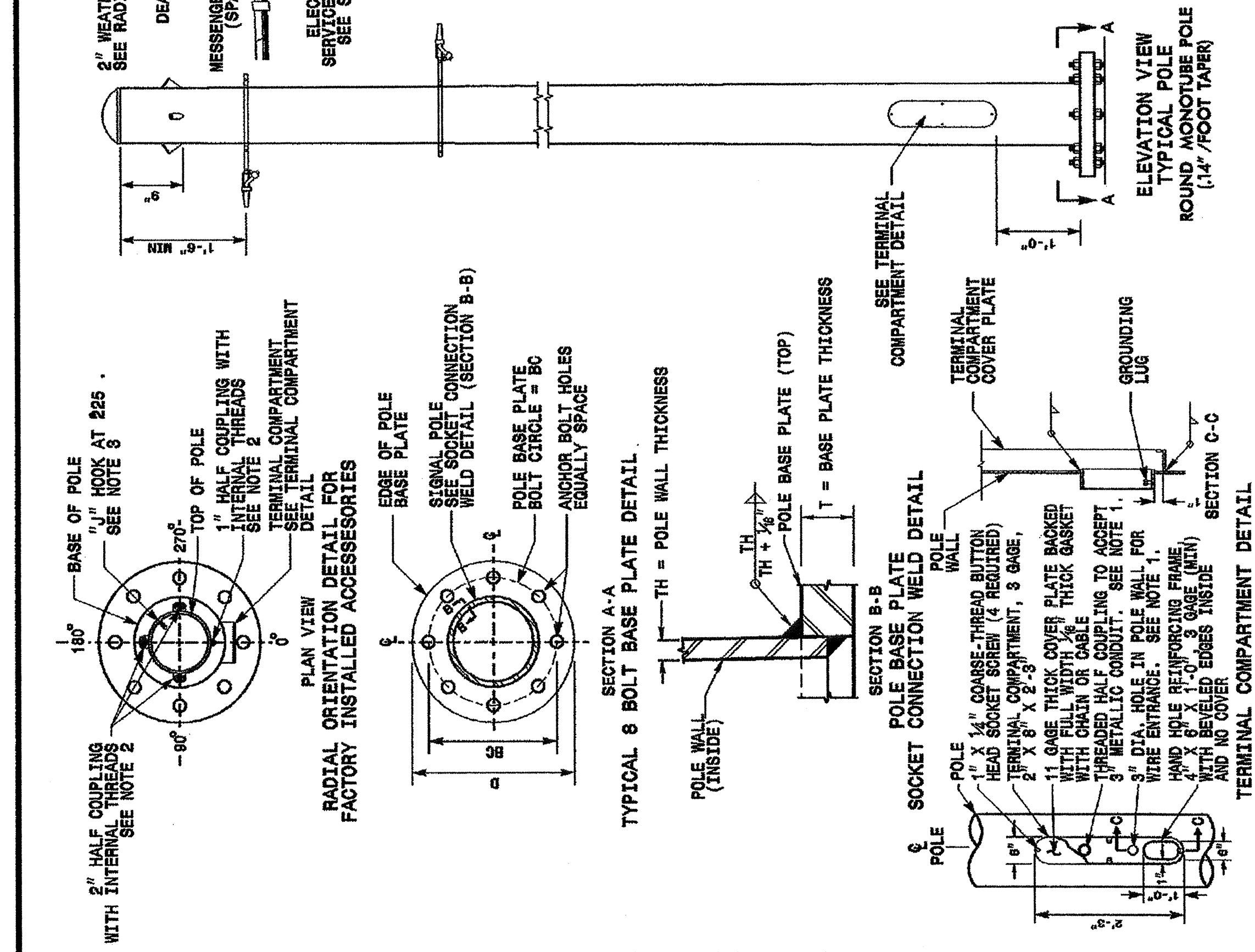
ENGLISH STANDARD DRAWING FOR METAL POLES FABRICATION AND ATTACHMENT DETAILS

SHEET 2 OF 3 1740.01



GENERAL NOTES

- PROVIDE 2-3" FACTORY DRILLED HOLES THROUGH THE POLE WALL FOR WIRE ENTRANCE ACCESS INSIDE THE TERMINAL COMPARTMENT. LOCATE HOLES AT 90° AND 360° FROM THE BASE OF THE POLE. WELD A THREADED HALF COUPLING IN THE TOP HOLE THAT CAN RECEIVE A 3" DIA. METALLIC CONDUIT.
- FABRICATE THE METAL POLE WITH 3-2" THREADED HALF COUPLINGS AND 1-1" THREADED INSTALLATION FOR SIGNAL WIRE ENTRANCE TO THE POLE. WELD THE COUPLINGS TO THE POLE AT AN ANGLE OF NO LESS THAN 45 DEGREES FROM HORIZONTAL TO PROPERLY INSTALL THE WEATHERHEADS. LOCATE THE HALF COUPLINGS ON THE POLE AS SHOWN IN THE RADIAL ORIENTATION DETAIL.
- OF THE POLE AT 225 DEGREES ON THE POLES RADIAL INDEX.
- STRAP ALL SIGNAL CABLES TO THE SIDE OF THE POLE WHEN THE DISTANCE BETWEEN THE SPANWIRE ATTACHMENT CLAMP ON THE POLE AND THE WEATHERHEADS EXCEEDS 36". USE 3/4" STAINLESS STEEL STRAPS TO SECURE WIRE TO THE POLE.
- DO NOT INSTALL FIBER OPTIC COMMUNICATION CABLE IN OR ON ANY METAL POLES FOR THE PURPOSES OF TRANSMITTING THE SIGNAL FROM OVERHEAD TO UNDERGROUND. OVERHEAD ATTACHMENTS MAY BE ALLOWED USING A 3-BOLT CLAMP WITH 3/4" HOOK IF THE PURPOSE OF THE ATTACHMENT IS TO CONTINUE A RUN OVERHEAD. SEE SHEET 3.



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR METAL POLES FABRICATION AND ATTACHMENT DETAILS

SHEET 2 OF 3 1740.01

<p>Structural Engineer</p> <p>J. S. Searles 9-23-03</p>	<p>Electrical Engineer</p> <p>Milton J. Dean 9-24-03</p>
<p>Standard Drawings</p> <p>Traffic Management and Signal Systems Unit</p> <p>122 N. McDowell St., Raleigh, NC 27603</p>	
<p>See Plate for Title</p>	
<p>Original: 2002 Standards</p>	

21-SEP-2003 11:28
 P:\F600\18-JUN17\kkr-kp\cupsa03\roadway\std\cdr\dwg\skp\174001.dwg
 1740.01