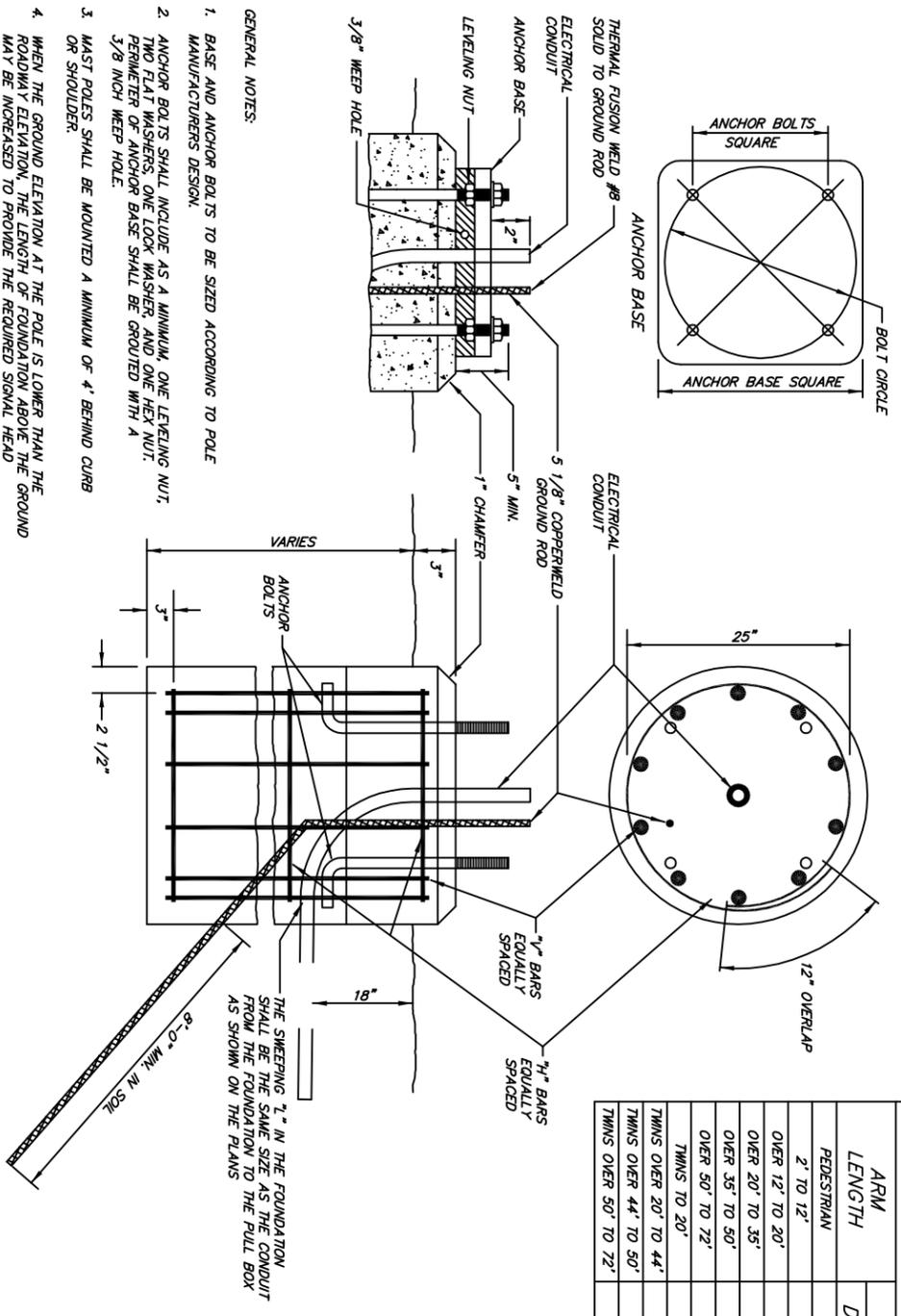


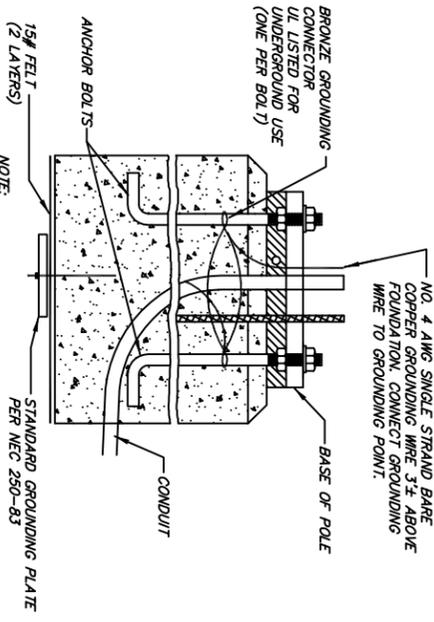
**POLE FOUNDATION MINIMUM DIMENSIONS AND STEEL REINFORCING**  
(ALL REINFORCING STEEL SHALL BE GRADE 40 MINIMUM)

ARM LENGTH	FOUNDATION		STEEL		O.C.
	DIAMETER	DEPTH	VERTICAL	HORIZONTAL	
PEDESTRIAN	30"	7'-0"	12-#7 (8'-6")	10-#4	8.44"
2' TO 12'	30"	10'-6"	12-#7 (10'-0")	15-#4	8.42"
OVER 12' TO 20'	30"	11'-6"	12-#7 (11'-0")	16-#4	8.66"
OVER 20' TO 35'	36"	12'-6"	13-#8 (12'-0")	17-#4	8.88"
OVER 35' TO 50'	36"	13'-6"	13-#8 (13'-0")	19-#4	8.56"
OVER 50' TO 72'	42"	14'-6"	18-#8 (14'-0")	20-#4	8.74"
TMS OVER 20' TO 44'	36"	16'-0"	12-#8 (15'-6")	22-#4	8.76"
TMS OVER 44' TO 50'	42"	16'-0"	13-#8 (15'-6")	22-#4	8.76"
TMS OVER 50' TO 72'	42"	16'-6"	18-#8 (16'-0")	23-#4	8.64"



- GENERAL NOTES:
1. BASE AND ANCHOR BOLTS TO BE SIZED ACCORDING TO POLE MANUFACTURER'S DESIGN.
  2. ANCHOR BOLTS SHALL INCLUDE AS A MINIMUM, ONE LEVELING NUT, TWO FLAT WASHERS, ONE LOCK WASHER, AND ONE HEX NUT. PERIMETER OF ANCHOR BASE SHALL BE GROUDED WITH A 3/8" INCH WEEP HOLE.
  3. MAST POLES SHALL BE MOUNTED A MINIMUM OF 4' BEHIND CURB OR SHOULDER.
  4. WHEN THE GROUND ELEVATION AT THE POLE IS LOWER THAN THE ROADWAY ELEVATION, THE LENGTH OF FOUNDATION ABOVE THE GROUND MAY BE INCREASED TO PROVIDE THE REQUIRED SIGNAL HEAD CLEARANCE ABOVE THE ROADWAY. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 18" OR LESS, NO INCREASE IN DEPTH WILL BE REQUIRED. WHEN THE REQUIRED LENGTH OF FOUNDATION ABOVE THE GROUND IS 5'-6" OR LESS, INCREASE DEPTH BY 1'-0" FOR LENGTHS GREATER THAN 5'-6". DEPTH SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER. LONGITUDINAL REINFORCING, AS SHOWN IN THE TABLE, SHALL BE PROVIDED FOR THE LENGTH OF THE EXTENDED SHAFT AND #4 TIES SHALL BE PROVIDED AT A SPACING NOT TO EXCEED 9" ON CENTERS.

TYPICAL FOUNDATION  
N.T.S.  
TS.2.1



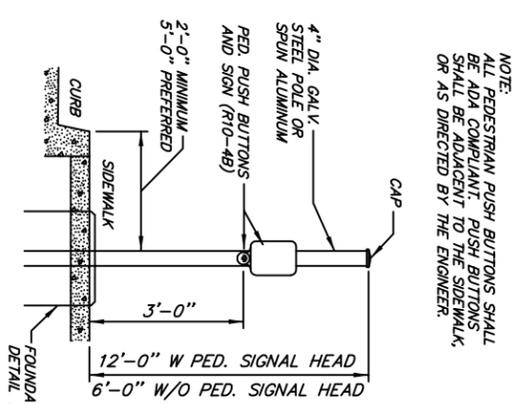
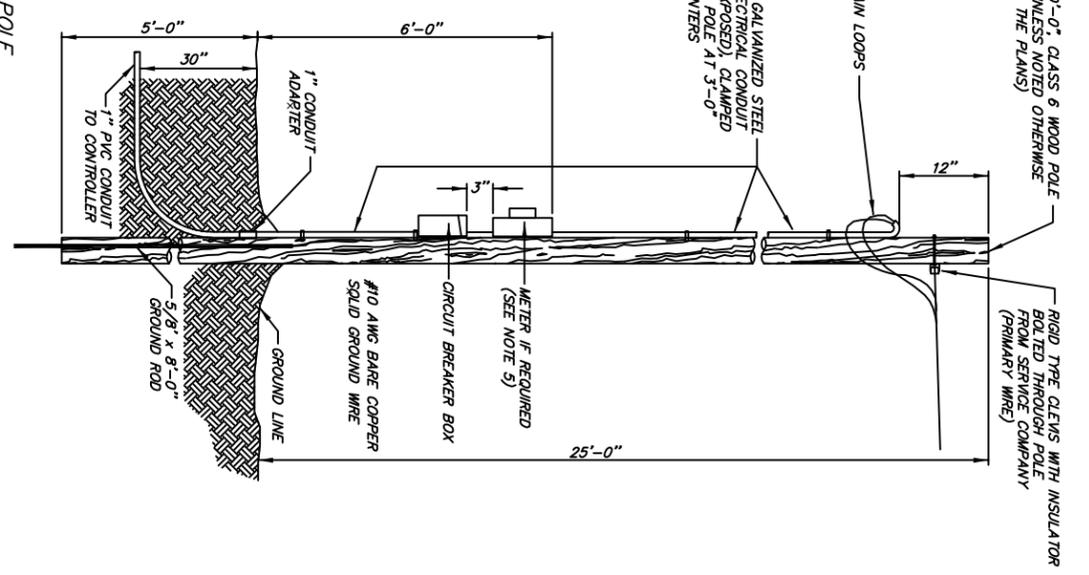
- NOTE:  
CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED DOWN TO THE GROUNDING PLATE.

ALTERNATE GROUNDING DETAIL  
N.T.S.  
TS.2.3

**OVERHEAD SERVICE TO SERVICE POLE**

N.T.S.  
TS.2.2

- GENERAL NOTES:
1. SERVICE POLE:  
PRIMARY SERVICE SHALL BE FURNISHED TO A SERVICE POLE OR TO A TRAFFIC SIGNAL POLE. THE INSTALLATION SHALL INCLUDE GROUND ROD, METER BASE, INSULATORS, CABLES, CONDUIT, SERVICE HEAD, SERVICE BRACKET, CIRCUIT BREAKERS, AND ALL OTHER ITEMS NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO GET THE CONNECTION AT THE PROPER TIME.
  2. ON PROJECTS WHERE SERVICE POLES ARE INSTALLED, THE SERVICE POLE SHALL BE INSTALLED AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE. LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
  3. INSTALL A CONDUIT COUPLING ADAPTOR, OR COMPRESSION COUPLING IF NECESSARY TO CONNECT CONDUITS OF DISSIMILAR MATERIALS.
  4. THE PRIMARY WIRING SHALL BE PROVIDED BY THE LOCAL UTILITY CO., UNLESS OTHERWISE SPECIFIED.
  5. THE CONTRACTOR SHALL INSTALL THE REQUIRED METERING EQUIPMENT FURNISHED BY THE LOCAL UTILITY CO., UNLESS OTHERWISE SPECIFIED.
  6. COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE PRIMARY SERVICE, EXCEPT FOR THE SERVICE POLE COST, SHALL BE CONSIDERED INCIDENTAL TO THE AMOUNT BID FOR TRAFFIC SIGNAL POLES.



- NOTE:  
PEDESTRIAN PUSH BUTTONS SHALL BE ADJACENT TO THE SIDEWALK OR AS DIRECTED BY THE ENGINEER.

PEDESTRIAN PUSH BUTTON POLE  
N.T.S.  
TS.2.4



Revision	Date	By
Revised Table, Detail TS.2.1	AUG-2011	MM
Added Note 4, Detail TS.2.1	AUG-2011	MM