



**SPECIAL LIGHT POLE FOOTING  
WITH PILLAR - ELEVATION VIEW**

**ANCHOR BOLTS:**

- A1 - ANCHOR BOLTS SHALL BE 4-1" DIAMETER.  
AS GIVEN IN SPECIFICATIONS ASTM F1554 GR 36.
- A2 - BOLT CIRCLE DIAMETER TO MATCH POLE BASEPLATE.
- A3 - ANCHOR BOLTS SHALL HAVE HEADS, OR NUTS WITH THE THREADS STAKED AT TWO PLACES BELOW THE NUT, EMBEDDED IN FOUNDATION.
- A4 - ANCHOR BOLTS SHALL BE EMBEDDED 33" MINIMUM, BELOW STREET GRADE (63" EMBEDMENT IN CONCRETE).
- A5 - BOLT PROJECTION AS RECOMMENDED BY THE MANUFACTURER.

**CONDUIT:**

- C1 - CONDUIT SHALL BE RIGID STEEL. GALVANIZED, INSIDE THE FOUNDATION, WITH 6" MINIMUM STUB-OUT.
- C2 - SERVICE AND FEED CONDUITS SHALL BE RGS OR SCH 80 PVC, AS REQUIRED.
- C3 - STUB UP TO WITHIN 4" FROM HAND HOLE.

**FOUNDATION:**

- F2 - THE FOUNDATION SHALL CURE A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO POLE INSTALLATION OR TORQUING OF THE ANCHOR BOLTS.
- F3 - FOUNDATION DEPTH (FD): 84" DEEP (IN UNDISTURBED NATIVE SOIL), 90" DEEP (WHERE INDICATED).
- F4 - THERE SHALL BE A MINIMUM OF 17" FOUNDATION BELOW THE ANCHOR BOLT HEADS.
- F5 - TOP OF FOUNDATION TO BE 30" (PIER) ABOVE FINISH GRADE. (FOUNDATION DEPTH BELOW FINISH GRADE SHALL REMAIN 84" MIN.)
- F6 - FILL JOINT WITH THIOKOL TO PREVENT MOISTURE FROM PENETRATING JOINT.
- F7 - FOUNDATION SHALL BE POURED SEPARATE FROM BUILDING AND LOADING DOCK STRUCTURES.

**GROUND ROD:**

- G1.- MINIMUM 3" EXPOSURE AT TOP OF FOUNDATION, WITHIN BOLT CIRCLE.
- G2.- GROUND ROD SHALL BE MINIMUM 0.625" DIA. X 8 FT LONG, COPPER CLAD.

**REINFORCEMENT:**

- R1 - VERTICAL REBAR SHALL BE (7) #6 EQUALLY SPACED INSIDE OF HOOPS.
- R2 - HOOPS SHALL BE #4 X 18" I.D., SPACED 4" O/C FROM TOP OF FOUNDATION TO END OF ANCHOR BOLTS.
- R3 - HOOPS SHALL BE #4 X 18" I.D., SPACED 12" MIN. FROM THE ANCHOR BOLTS TO BOTTOM OF FOUNDATION.
- R4 - ALL REBAR SHALL HAVE 3" MINIMUM COVERING.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

Note:  
All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.

**BUREAU OF TRANSPORTATION  
CITY OF PORTLAND, OREGON**

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Standard Drawing Title

**STREET LIGHTING  
SPECIAL LIGHT POLE FOOTING  
WITH PILLAR**

Effective Date: 05-10-12

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