

REVISIONS		
REV. NO.	DESCRIPTION	DATE
Various		09/05/2018

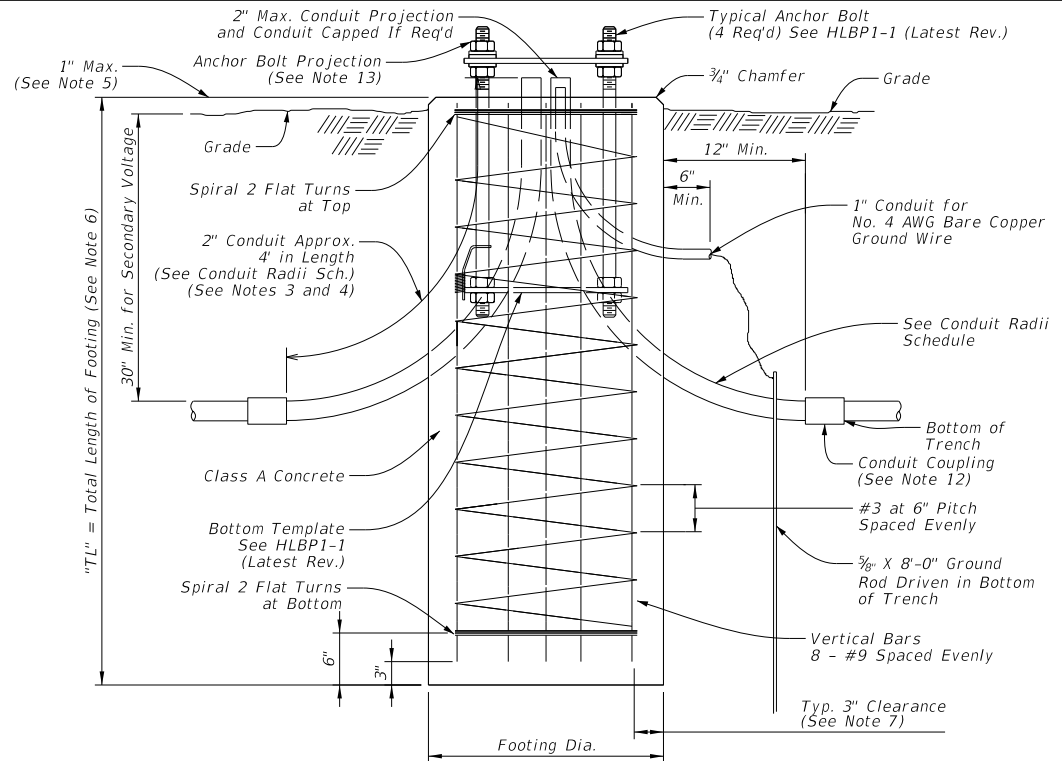
General Notes:

1. A template shall be provided to fix the location of the anchor bolts and conduits that project out of the concrete footing.
2. Anchor bolt templates shall be ASTM A-36 with a minimum thickness of 1/4" and both top and bottom need not be galvanized. The top template shall remain the property of the contractor and the top template can be reused for other installations.
3. Footing shall be constructed with at least two electrical service entry conduits, some may require more. See the plans for locations and number of conduits required. Any unused conduit shall be capped on both ends.
4. Electrical conduit or conduit sleeves shall be in accordance with Section 802, "Electrical Conduit."
5. If a breakaway device is to be installed, the footing shall be as close to ground level as possible to assure the proper action of the breakaway device and to prevent damage to the footing or underside of an impacting vehicle.
6. If specified, the footing may be extended extra length either above or below grade, see the plans for location and length. Also the vertical and spiral bar length along with conduit lengths may be adjusted accordingly.
7. Provide 3 inches of clearance from outside edges, 3 inches of clearance from bottom, and 3 inches clearance from top of footing for all reinforcing steel.
8. If anchor bolt data is not specified in the plans, the bolt size and placement for new poles shall be in accordance with the approved shop drawings. Anchor bolts shall be installed to fit the pole assembly base plate.
9. If the footing is constructed by a contractor other than the lighting contractor, the following additional requirements will apply:
 - (A) An anchor bolt template shall be installed.
 - (B) The conduit sleeves for the power conductors shall be 2 inch rigid galvanized steel or Sch. 40 PVC and extend approximately 6 inches from the edge of the footing and be capped on both ends, unless the conduit system is designed to extend to another point of termination.
 - (C) The size of the anchor bolt and the bolt circle dimensions shall be as shown in the plans and detailed on Standard HLBPI-1 (Latest Revision).
10. If the Contractor elects to install Cable-In-Duct (CID) trenching conduit prior to constructing the footing, the CID conduit may be placed in the concrete footing without a conduit sleeve. If the trenching CID conduit is to be installed after the footing is constructed, a conduit sleeve will be required. The conduit sleeve shall be sized to accommodate the CID specified in the plans. Example: 2 inch CID requires a 3 inch diameter sleeve.
11. The anchor bolts, conduit sleeves, templates, ground rod, ground wire, clamp and the conduit for the ground wire will not be measured for payment but shall be included in the unit price bid for the footing materials under Section 804, "Concrete Footings." The electrical conduit shall be measured for payment and paid for at the unit price bid for the electrical conduit of the size / type specified in the plans in accordance with Section 802, "Electrical Conduit."
12. Install a conduit coupling, adaptor, or compression coupling if necessary to connect conduits of dissimilar materials.
13. The anchor bolt projection shall be either:
 - (A) 5 3/4" (+ 1/4") for shoe base.
 - (B) 3 1/2" minimum to 4" maximum for transformer base.
 - (C) As required for double nut leveling.
14. The Contractor shall construct the top of the light pole footings level to avoid the use of shims when installing the light poles on the footings.
15. Electrical conductors shall be in accordance with Section 811, "Electrical Conductors Highway Lighting."
16. All concrete shall be Class "A" and reinforcing steel shall be in accordance with ASTM A615 Grade 60 or AASHTO M-31 Grade 60.
17. If rock is encountered, construct footing to full embedment length unless otherwise directed by the Department.
18. Bond anchor bolt to rebar cage with a #4 AWG bare stranded copper conductor. Use listed mechanical connectors rated for embedment in concrete.

Basis of Payment		
Item No.	Item	Unit
610(A)	Concrete Sidewalk	SY
802(A)	Galvanized Steel Electrical Conduit	LF
802(B)	Polyvinyl Chloride (PVC) Conduit	LF
802(C)	High Density Polyethylene (HDPE) Conduit	LF
804(A)	Structural Concrete	CY
804(B)	Reinforcing Steel	LB

Approved By Bridge Engineer: *SBM* Date: 9-14-18
 Approved By Traffic Engineer: *CE* Date: 9/28/18

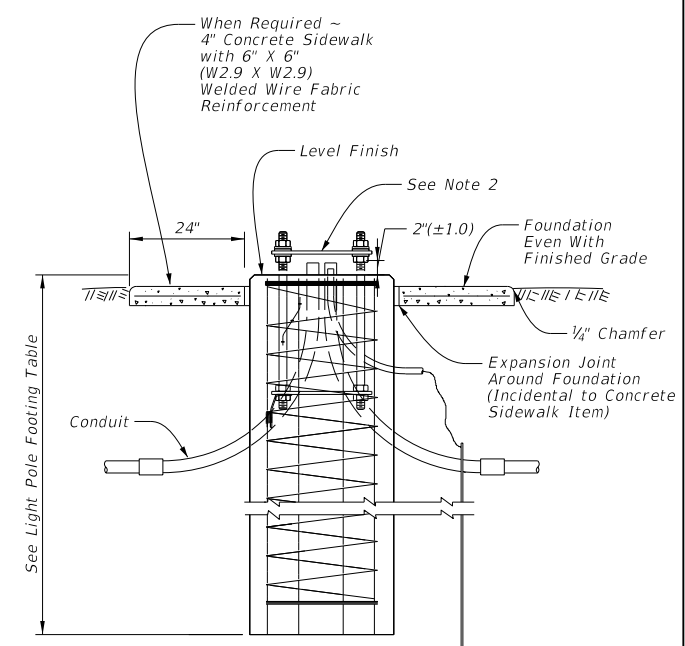
Traffic Standard
 Typical Ground Mounted
 Light Pole
 Footing Details



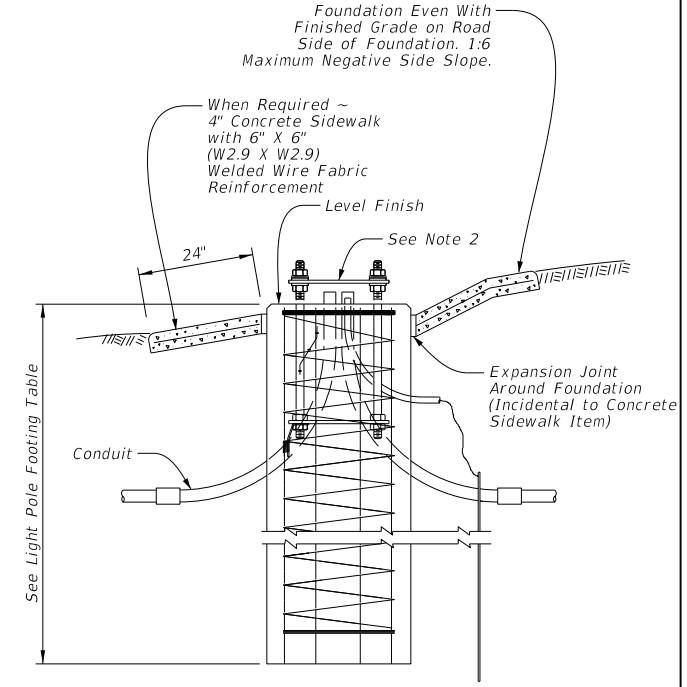
Footing ID. No.	Pole Mounting Height	Footing Dia.	Total Length of Footing "TL"	Class "A" Conc.	3" Bar Spiral Length	Reinf. Steel	Conc. Sidewalk 4" Depth
GMF30x108	Up to 40'	2'-6"	9'-0" Ea. Foot Add	C.Y. 1.64 0.18	FT. 125.60 12.56	LBS. 284 32	S.Y. 2.79

Length includes 2 Flat Turns at Top & Bottom of Spiral

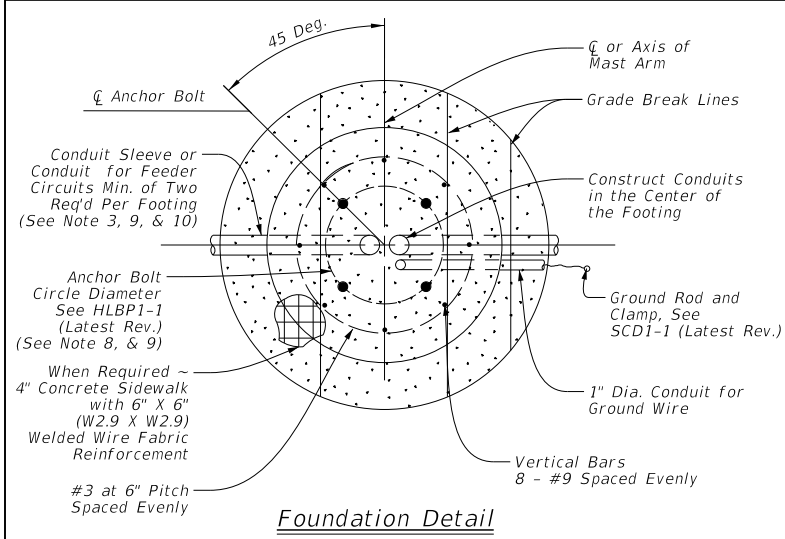
Light Pole Footing Detail



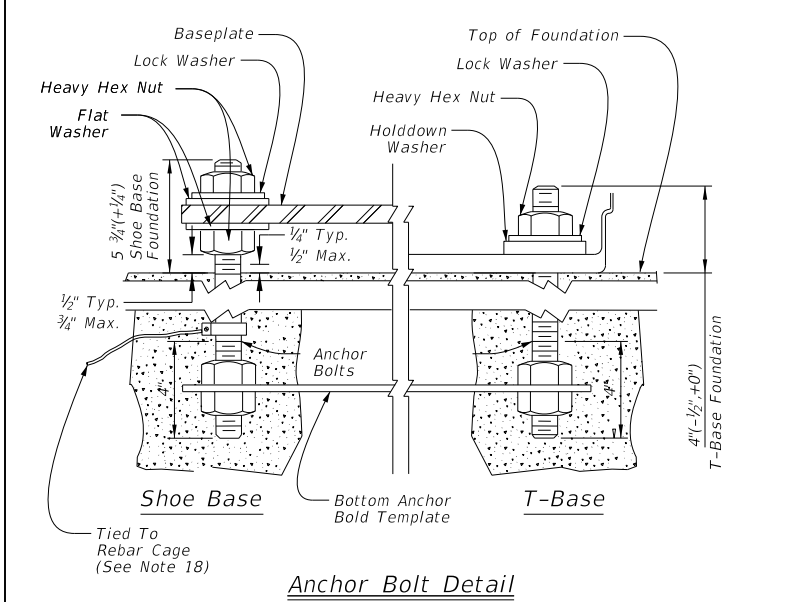
Constant Grade Section of Foundation Detail



Sloped Grade Section of Foundation Detail



Foundation Detail



Anchor Bolt Detail

Conduit Radii Schedule	
Nominal Conduit or Sleeve Diameter (Inches)	Minimum Radius (Inches)
1/2, 3/4	12
1, 1 1/4	18
1 1/2	24
2	30
2 1/2, 3	36
4	48

Conduit Radii Schedule