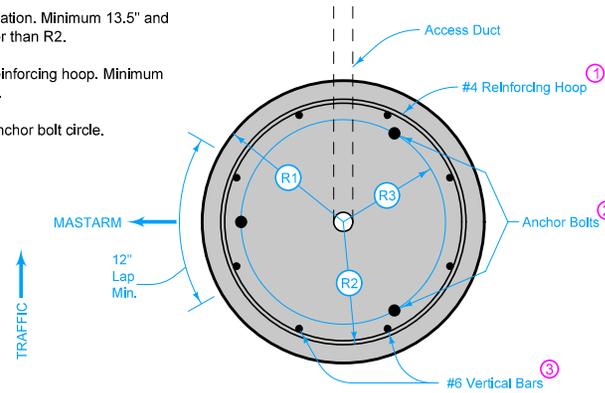
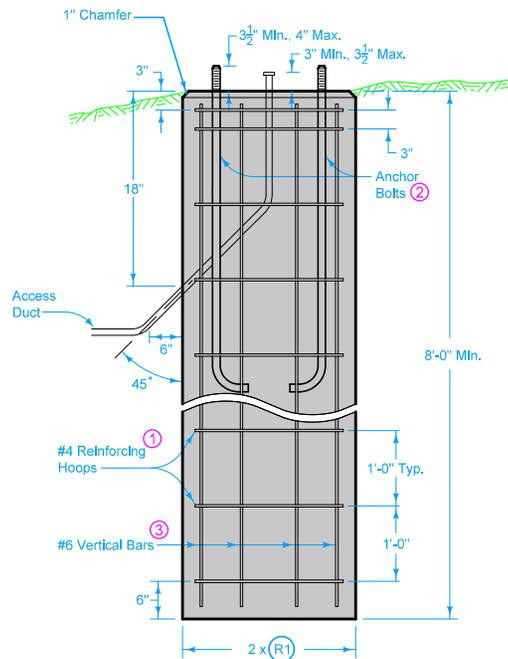


PLAN (TRANSFORMER BASE)

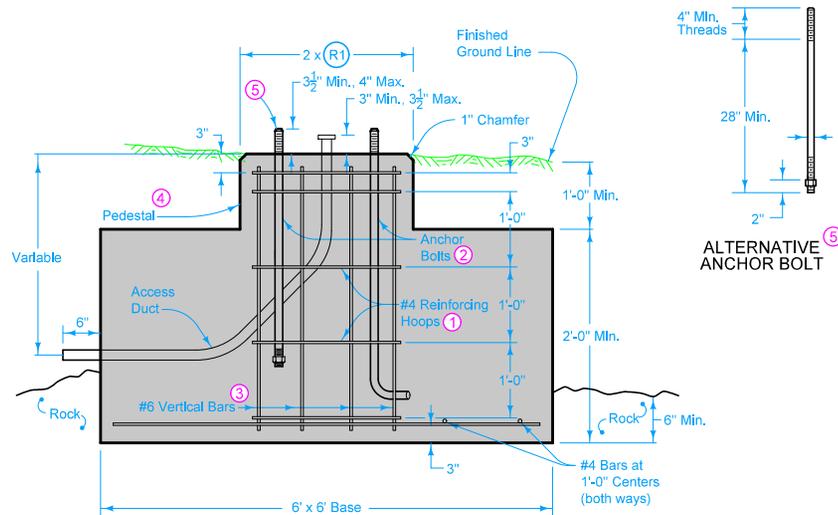
- (R1) = Radius of foundation. Minimum 13.5" and minimum of 2" greater than R2.
- (R2) = Radius of the reinforcing hoop. Minimum of 1" greater than R3.
- (R3) = Radius of the anchor bolt circle.



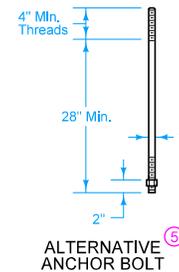
PLAN (SLIP-BASE)



TYPICAL SECTION  
TYPE A FOUNDATION



TYPICAL SECTION  
TYPE B FOUNDATION



ALTERNATIVE  
ANCHOR BOLT

The Type A Foundation is the normally required foundation construction. Where rock, shale, sandstone, broken or shattered rock, or other similar material is encountered, the Engineer may approve the use of the Type B Foundation. Dispose of all excavations in the area adjacent to the foundation and shape to the natural contour unless directed otherwise by the Engineer.

Minimum diameter of foundation is determined by the Anchor Bolt Circle required for the diameter of the pole being installed. Where dimensional requirements indicated cannot be met with normal foundations, enlarge the foundation as necessary to accommodate the required diameter at no additional cost to the Contracting Authority.

Provide minimum 2" clear for all reinforcement.

Cap open ends of conduit during construction to prevent infiltration of foreign material. After the cable is installed, seal the upper end of the ducts against entry of moisture by a method approved by the Engineer.

For access ducts, use a 2" nominal inside diameter duct.

For Transformer Base foundations, install a minimum of two access ducts, unless specified otherwise. Also install a 1" nominal inside diameter duct for the ground wire duct.

When precast foundations are used, backfill with Class B concrete. When caving soil or ground water is present, remove to provide an acceptable condition prior to placing Class B concrete.

- (1) #4 bars lapped a minimum of 12" as indicated. Hoops may be welded to vertical bars.
- (2) Use full length galvanized anchor bolts; four for Transformer Base, three for Slip-Base. Refer to the manufacturer's requirements for anchor bolt dimensions. Obtain a template from the light pole manufacturer for anchor bolt placement. Do not weld anchor bolts.
- (3) Place 8 bars spaced equally. Use #7 bars when the mounting height is greater than 44 feet.
- (4) Foundation base may be thickened and pedestal omitted at the Contractor's option.
- (5) If depth from finished ground line to bottom of foundation is less than 48", Alternative Anchor Bolt may be used.

<b>IOWA DOT</b>	REVISION
	New 10-21-14
<b>STANDARD ROAD PLAN</b>	<b>LI-201</b>
SHEET 1 of 1	

REVISIONS: New. Replaces RM-39 and RM-47.

*Brian Smith*  
APPROVED BY DESIGN METHODS ENGINEER

**LIGHT POLE FOUNDATION**