Streetlight, Precast, Concrete Foundation Installation

1. Scope

This standard specifies the requirements for the installation of precast streetlight concrete foundations.

This standard applies to the installation of the following Seattle City Light (SCL) stock numbers:

Stock No.	Bolt Circle, diameter (in)	Bolt Projection (in)
568025	9	4
568028	11-1/2	4

Excavation and work practices are outside the scope of this standard.

2. Application

This standard provides direction to SCL crews about installation requirements for precast streetlight concrete foundations.

This standard is only applicable to installations by SCL crews.

Installation of non-standard SCL material is subject to requirements in the City of Seattle Standard Plans.

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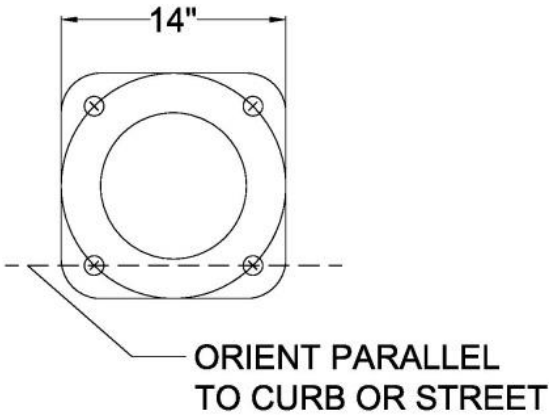
3. Requirements

3.1 Orientation

Precast foundations shall be oriented parallel to the curb or street as shown in Figure 3.1.

Figure 3.1. Orientation Requirements, Plan View



The bed of the installation area shall be filled and compacted with a 6-in minimum thickness of 3/8-in washed gravel.

Backfill shall be compacted to 95-percent density in 12-in layers.

3.2 Installation Depth

Precast foundations shall be installed at the depths listed in Table 3.2.

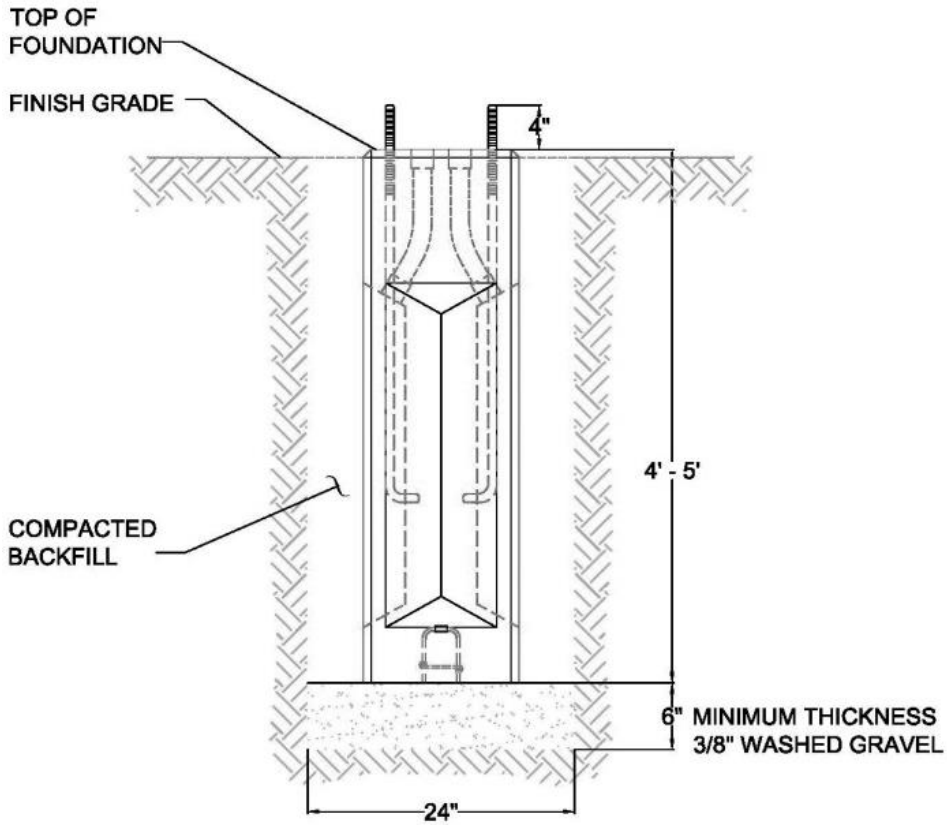
Table 3.2. Installation Depths

Stock No.	Roadway Type	Bolt Circle diameter (in)	Installation Depth (ft)
568025	Residential	9	4
568028	Arterial	11-1/2	5

3.3 In-Earth

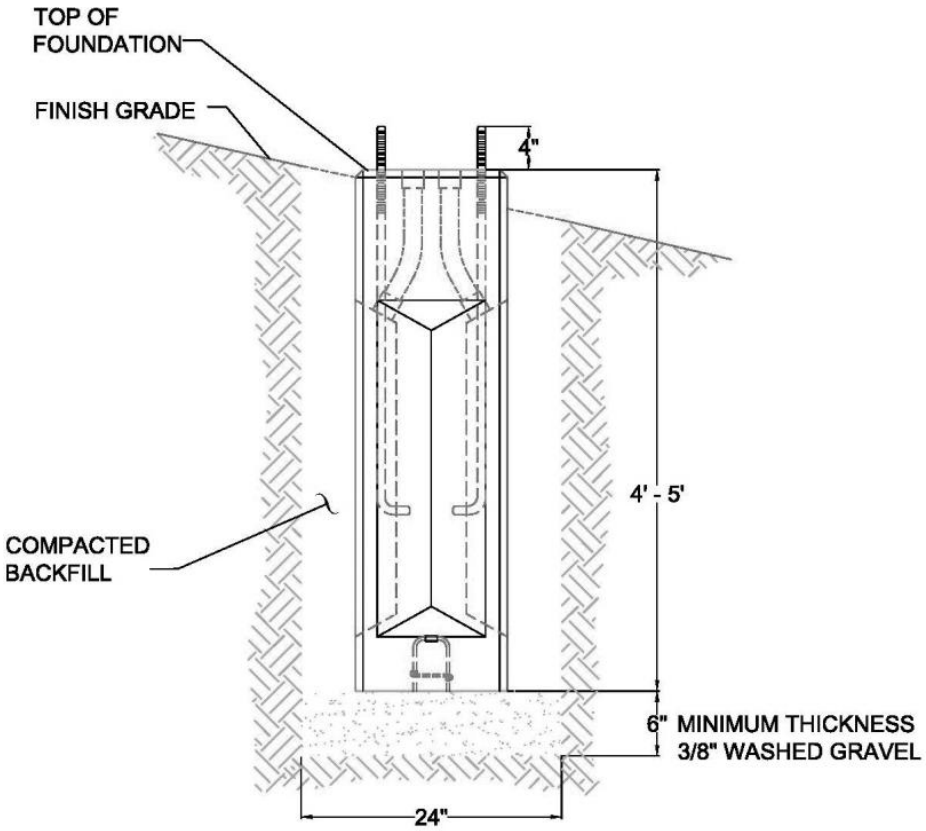
Installations in earth without incline shall conform to Figure 3.3a.

Figure 3.3a. Requirements for In-Earth, Without Incline, Installation, Elevation View



Installations in-earth with incline shall conform to Figure 3.3b.

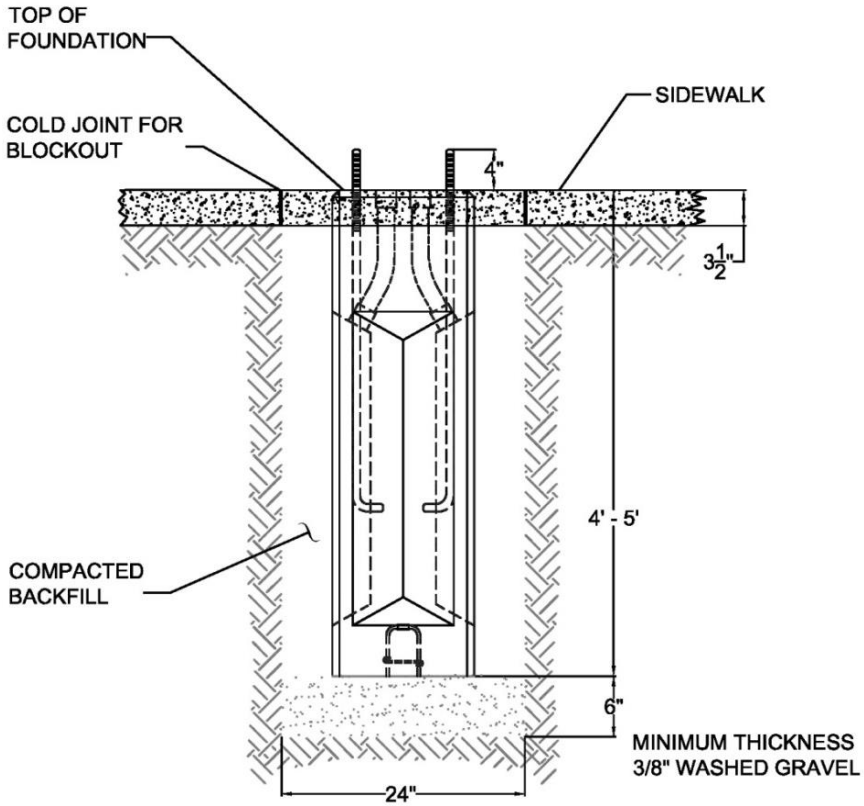
Figure 3.3b. Requirements for In-Earth, With Incline, Installation, Elevation View



3.4 In-Sidewalk

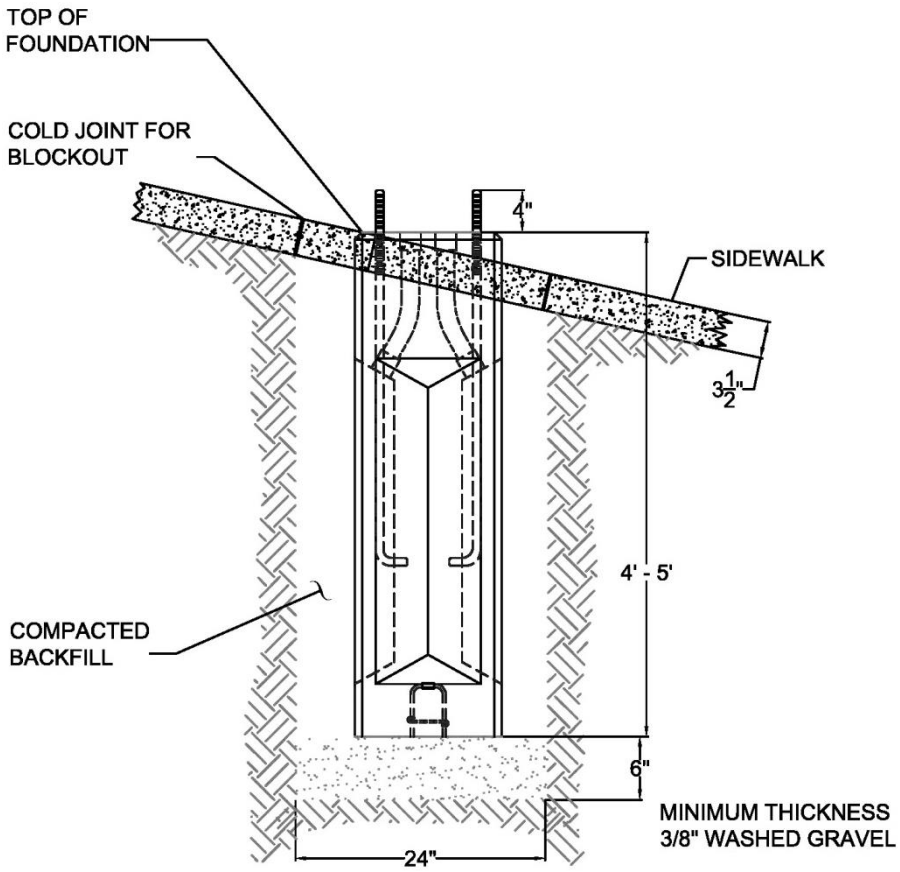
Installations in sidewalk without incline shall conform to Figure 3.4a.

Figure 3.4a. Requirements for In-Sidewalk, Without Incline, Installation, Elevation View



Installations in sidewalk with incline shall conform to Figure 3.4b.

Figure 3.4b. Requirements for In-Sidewalk, With Incline, Installation, Elevation View



4. References

SCL Material Standard 5778.20; "Footings, Precast Concrete for Residential Streetlight Poles"

SCL Material Standard 5778.40; "Footings, Precast Concrete for Arterial Streetlight Poles"

5. Sources

ASTM C891-11; Standard Practice for Underground Precast Concrete Utility Structures

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