

Footings, Precast Concrete for Residential Streetlight Poles



1. Scope

This standard covers the requirements for precast concrete footings used to support residential streetlight poles.

This standard applies to the following Seattle City Light Stock Numbers:

Stock No.	Bolt Circle, Diameter (in)	Bolt Projection (in)
568025	9	4

Precast concrete footings used to support *arterial* streetlight poles are outside the scope of this standard.

2. Application

Precast concrete residential streetlight pole footings are a cost-effective alternative to poured-in-place footings. Residential streetlight footings allow for an immediate foundation system for at-grade and above-grade applications.

Footing design includes convenient connection points to conduit systems.

Footing is set using lift plate secured to anchor bolt with nut (two places).

Requirements for footings used to support *arterial* streetlight poles are covered in SCL 5778.40.

Standard Coordinator
Jay Ytell

Standards Engineering Supervisor
John Shipek

Division Director
Andrew Strong

3. Industry Standards

Footing manufacturer shall meet the applicable requirements of the following industry standard:

National Precast Concrete Association (NPCA) Quality Control Manual for Precast and Pre-stressed Concrete Plants, 9th Edition, January 2012.

4. Requirements

Concrete Finish	Flat float with machined edges
Footing Dimensions, Concrete Portion	
Height	4'-0" $\pm 1/4$ "
Width	1'-6" $\pm 1/4$ "
Depth	1'-6" $\pm 1/4$ "
Concrete Chamfer, nominal	3/4 in
Footing weight, nominal	700 lb
Tolerances	
Bolt Circle Diameter	$\pm 1/8$ in
Bolt Projection	$\pm 1/4$ in

Provision for routing customer supplied conductor through footing shall be accomplished by means of two sections of 2-inch, PVC, flexible conduit.

A PVC conduit coupling shall be installed on each end of each flexible conduit section.

Anchor bolt details shall be as specified in Section 8.

5. Product Approval

Manufacturers and/or distributors interested in having their product approved for purchase by Seattle City Light must participate in the stepped process summarized below. Contact Standards for the details.

1. Submit documentation that establishes the product meets the requirements of this standard.
 2. Provide one sample for evaluation.
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6. Packaging

Footings shall be packaged to prevent damage during shipping, handling, and storage.

Each shipping container shall be marked with:

- Seattle City Light purchase order number
 - Seattle City Light stock number
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7. Issuance

8. Approved Manufacturer**Anchor Bolt Details**

Stock No.	Number	Length (in)	Diam (in)	Bolt Circle Diam (in)	Bolt Projection (in)	Oldcastle Precast Catalog No.
568025	4	36	3/4	9	4	4-LB-CL-4

Oldcastle Precast products were previously manufactured under the name Utility Vault.

9. References

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

10. Sources

Chao, Yaochiem; SCL Standards Engineer, subject matter expert, and originator of SCL Material Standard 5778.20; (yaochiem.chao@seattle.gov)

Oldcastle Precast; drawing no. 010-X949002-001; September 18, 2012

SCL Material Standard 5678.20; “Footings, Precast Concrete for Residential Streetlight Poles” (renumbered to 5778.20 in October 2015)