

Temporary Service for Streetlights on Metal Poles

1. Scope

This standard covers the information necessary to install temporary overhead secondary service conductors to streetlights mounted on metal poles.

2. Application

This standard provides direction to SCL engineers, crews, and approved contractors for the installation of temporary service to metal streetlight poles.

Installation is intended for underground (UG) streetlight areas impacted by wire theft or damage to the UG streetlighting infrastructure, resulting in prolonged unplanned outages.

Installation is intended to expedite streetlight service restoration, temporarily, until the permanent UG streetlight service can be restored.

All temporary installation designs shall be reviewed and approved by SCL Streetlight Engineering in advance.

3. Requirements

3.1 Clearances

Vertical clearance between the temporary service conductor and other crossing cables and wires carried on different structures, anywhere in the span, shall be 2 ft.

Clearance in all directions when not attached to, or passing by, structures up to the strike point on the streetlight, shall be 5 ft.

For other clearance issues, see Section 4.

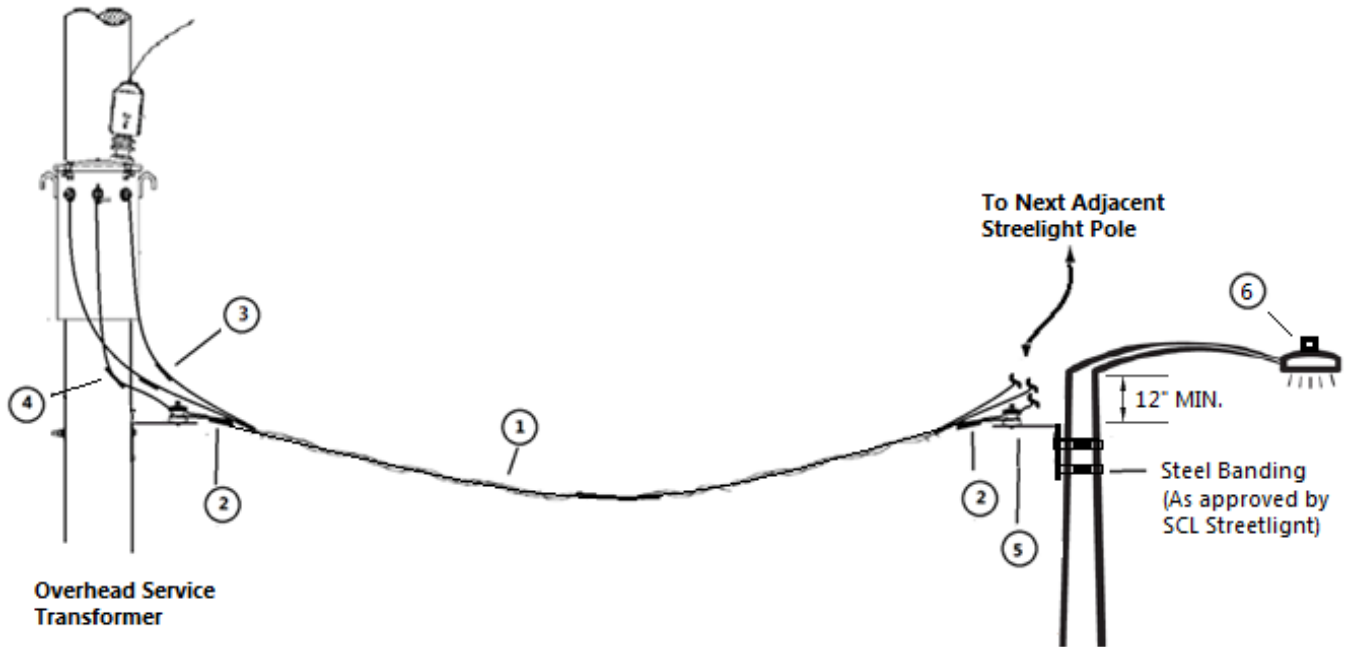
3.2 Installation

Temporary service shall be connected and installed as shown in Figure 3.2.

LR brackets shall be installed with steel banding as approved by SCL Streetlight Engineering.



Figure 3.2. Installation Details



4. Construction Notes

Secure streetlight power tap adaptor cables to the mast arms using zip-ties or tape.

Tape all connections either with a minimum of three layers of plastic electrical tape (Stock No. 736655) or apply heat-shrink sleeves. Heat-shrink sleeves may be used in place of plastic tape for straight splices only.

Consult with SCL Streetlight Engineering for issues related to:

- Loading
- Clearances and overhang
- Tree trimming

If a cable outlet port is required at the top of the streetlight pole for accessing cables, see City of Seattle Specification 563b.

Do not use automatic or straight-line clamps.

5. Material Lists

Table 5a. Service Conductors, Overhead

Fig	Compatible Unit	ID	Qty
3.2	Wire, #6 AWG Triplex Service	CNDOSVC1-#6TP	┌ └─┘ ↓
#	Material Description	ID	
1	#6 AWG triplex, coil	013271	1

Table 5b. Service Connectors, Overhead

Fig	Compatible Unit	ID	Qty
3.2	Connectors, #6 AWG Triplex Service	SLCNDOSVC-#6TPC	┌ └─┘ ↓
#	Material Description	ID	
2	Neutral service wedge clamp, #6 AWG-#2	581340	2
3	Connector, comp., bare, #8 AWG-2/0	650102	3
3	Connector, comp., insulated, yellow-blue	650567	3
4	Connector, 2-bolt, bronze, clamp, 1/0-4/0 str	669380	2
5	LR Bracket	690404	1
6	Power Tap Adapter	014057	1

6. Sources

Borek, Tom; SCL Streetlight Engineer and subject matter expert for 1760.60 (tom.borek@seattle.gov)

IEEE C2-2017; National Electric Safety Code (NESC); 2017

Neuansourinh, Ponet; SCL Standards Engineer, originator, and subject matter expert for 1760.60 (ponet.neuansourinh@seattle.gov)

NFPA-70, National Electric Code (NEC) Article 230, Fourteenth Edition, National Fire Protection Association, Quincy, MA, 2017