

**BOISE CITY
STANDARD REVISIONS
FOR ISPWC DIVISION 1102
STREET LIGHTS**

GENERAL INFORMATION

All work shall conform to the requirements of the most current edition of the National Electrical Code, the Idaho Standards for Public Works Construction (ISPWC), and the Supplementary Conditions and these Standard Revisions. Contractor shall become familiar with these documents to ensure full understanding of the requirements of this Project. Failure to do so does not relieve the Contractor of the duties, obligations and responsibilities addressed within those documents.

The Idaho State Electrical Board has determined that all street lights are to be provided with an external fuse disconnect, in a junction box between the power source and the street light pole. See attached standard drawings for connection requirements.

Street light installations inspections will be required for the concrete base reinforcing, the trench depth and bedding, and for the pole. Contact City of Boise at 208-608-7526 for inspections, 48 hour notice required. Contractor shall notify the City when street light is ready for turn on.

Attachment A lists approved products for Boise City street light installations. Contact Boise street light staff to seek approval for any substitute products.

REVISIONS TO THE STANDARD SPECIFICATIONS

SECTION 1102

STREET LIGHTING

PART 2 MATERIALS

2.2 JUNCTION BOXES

2.2.A Replace with the following:

Junction boxes in driveways or roadways are not allowed.

2.2.B Replace with the following:

Junction boxes in sidewalks and similar areas to be concrete with steel lid and this lid must be bonded to the equipment grounding conductor with the use of a #6 compression lug.

Add the following:

2.2.C Junction boxes in landscape areas may be plastic or fiberglass.

2.2.D All junction boxes to have a means to secure lid (i.e.bolt).

2.2.E See Attachment A for approved products.

2.2.F J-boxes used at the Idaho Power service connections may not use a metal lid.

2.3 FUSE HOLDERS

A.1. Add the following sentence.

Fuses for Boise City installation shall be fast acting – 100k RMS Amps-600VAC.

B.1. Add the following sentence.

Fuses for Boise City installation shall be fast acting – 100k RMS Amps-600VAC.

2.4 CONDUCTOR

B.2 Add the following sentence.

Phase “A” shall be colored Black, phase “B” shall be colored Red, and the receptacle conductors shall be in Blue and White.

2.7 DISCONNECT BOXES

Add paragraph D

D. Disconnect boxes are only required for overhead wiring.

2.8 MAST ARMS FOR WOOD POLES **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.9 WOOD POLES **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.10 METAL POLES

Add the following paragraph:

F. Poles may be square, round or tapered round. Decorative poles are prohibited. Poles for decorative fixtures (approved by the City) are to be round. See Street Light Approved list on the web page for approved poles for decorative fixtures.

2.11 FIBERGLASS POLES **NOT USED FOR BOISE CITY INSTALLATIONS**

2.12 HISTORICAL POLES

Replace with the following:

- A. Historical style metal poles shall be true copies, approved by Boise City, Department of Public Works, of the original Old Boise Historical Pole. The new historical poles shall have the same surface texture and have the same Dark Green or Black Green color finish that matches the existing Historical poles in the Historical Lighting District. Metal poles shall have a powder coat finish in accordance with ASTM B-117.
- B. Historical poles for the City of Boise shall be cast aluminum, in style and texture of the original Old Boise Historical Pole (see standard drawing BC SD-8). See Attachment A for approved products.
- C. Color: To match existing poles, approved color mix for Sherwin Willams DTM Acrylic Coating RAL 6009 Fir Green Order #0174795.
- D. Additional pole requirement for historic lights installed within the Capitol City Development Corporation (CCDC) shall be:
 - 1. Poles shall be supplied with an GFCI receptacle with a metal bubble cover having the same color as the pole as shown on standard drawing BC SD-8.
 - 2. Poles shall be supplied with a manufacturer's adaptor for installation of the approved banner arms and a breakaway banner arm. The adapter or banner arm shall face the building or lot only.

2.13 BOLLARDS **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.14 PREFABRICATED BASES **NOT USED FOR BOISE CITY INSTALLATIONS.**

2.15 SERVICE PEDESTAL

Add the following:

- C. See Street Light Approved list on the city web page for approved products.

2.16 LIGHT FIXTURES

Replace paragraph A. with the following and add G.:

- A. Fixture light level as required by Boise City Public Works. See Attachment A for approved products. Class “A” residential, Class “B” collector/general roadway.
- G. Effective 1 October, 2015 all fixtures installed shall be labeled with the fixture wattage using a label meeting ANSI C136.15-2011 using the large type. If the manufacturer does not supply the ANSI label then the installer shall mark the fixture with the fixture wattage using black labels with white numbering a minimum of 1.5 inches wide by 2.5 inches high on the bottom of the fixture visible from the ground. If there is not sufficient area on the bottom of the fixture, the wattage label shall be placed on the pole just below the fixture. See examples below. The only exception to this requirement shall be the City of Boise Historical Pole and Fixture. It will not require any wattage label.



PART 3 WORKMANSHIP

3.2 JUNCTION BOX INSTALLTION

Modify paragraph D: Do not install in any driveway or roadway.

3.3 WIRE OR CONNECTORS

Add the following item:

F. For all street lighting installations within the City of Boise the only approved connectors for # 6 or larger wire shall be a split-bolt type connector for ground wires. Waterproof connectors from the Street Light Approved list on the city web page for all other conductors.

3.4 CONDUIT INSTALLATION

B. Underground:

Modify item 5 to read: “Locating wires only **required** for conduit in which the conductors are not installed in conjunction with the conduit.”

Add the following item:

9. For historical street lights within the Capital City Development areas, an additional, parallel conduit shall be installed from the street light to the control cabinet to accommodate a separate circuit for the outlets on the poles.

3.6 DISCONNECT BOXES **NOT USED FOR BOISE CITY INSTALLATIONS.**

3.7 GROUNDING

Add to paragraph C. reference to City of Boise standard drawing BC SD-1117 and ISPWC Standard Drawings.

3.8 CONCRETE POLE BASES

In paragraph F., add reference to City of Boise standard drawing BC SD-9 Historical Pole base.

3.9 POLE INSTALLATION

In paragraph B., delete reference to wood and fiberglass poles.. Add reference to City of Boise standard drawing BC SD-11.

G. NOT USED FOR BOISE CITY INSTALLATIONS

3.11 SERVICE PEDESTAL

Modify paragraph A: Service pedestals shall be installed in accordance with standard drawing BC SD-1127.

In paragraph B., Add the following sentence:

Service pedestals connected to historical street lights in the downtown core shall conform to SD-1126 with an additional meter connected to the electrical outlet circuit. Contact Public Works to verify if your locations will need to meet this requirement. See Street Light Approved list on the city web page for approved products.

ADDITIONAL CITY OF BOISE STANDARD DRAWINGS ATTACHED

BC SD-8 HISTORICAL POLE DETAIL

BC SD-9 HISTORICAL POLE BASE DETAIL

BC SD-11 HISTORICAL STREET LIGHT PLACEMENT

BC SD-1127 STREET LIGHT SERVICE PEDESTAL BASE

EXAMPLE OF THE ANSI C136.15-2011 LED WATTAGE LABEL