

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

GENERAL INFORMATION

All work shall conform to the requirements of the 2010 Edition of the Idaho Standards for Public Works Construction (ISPWC), 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 384-3900 for inspections, 48 hour notice required. Contractor shall notify the City when street light is ready for turn on.

REVISIONS TO THE STANDARD SPECIFICATIONS

SECTION 1102

STREET LIGHTING

PART 2 MATERIALS

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.

2.7 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.

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). Such as:
 - 1. Antique Street Lamp's PA B-120 12-6 CLD107811 FG-S BI 601810 DGRG Capitol-B1113641CS.
 - 2. Continental Pole & Lighting., ID20-FT12-ID21, RAL 6009, Fluted-Cast Aluminum Pole w/ capitol integral to the pole (no capitol required).
- C. Color: To match existing poles, approved color mix for Valspar Anti-Rust gloss, oil enamel paint, base #4, #49437: mixture formula; 114-1Y29.44, 101-4Y42.9, 103-4Y14.55. Color designate for Antique is DGRG, for Continental it is RAL 6009.
- D. Provide Capitol top adaptor to accept Holophane Boisean fixture, if required.
- E. Additional pole requirement for historic lights installed within the Capitol City Development Corporation (CCDC) shall be:
 - 1. Poles shall be supplied with a block out for an electrical outlet 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; Continental Pole & Lighting, pole number ID20-FT12-

ID21-BA or Antique Street Lamps, BAB25B4BBA ANDG, as shown on standard drawing BC SD-8.

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

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

2.17 LIGHT FIXTURES

Replace paragraphs A., B. and F. with the following:

A. Fixture wattage as required by Boise City Public Works.

B. Light Source:

1. Overhead lights – multi-tapped ballast for voltage, high pressure sodium light source.
2. Historic lights – Light Emitting Diode with wattage specific driver light source. Lights shall be 70 watt L.E.D. The following units are approved:
 - a. Holophane GV1A73N/GV3N/LED 70W E350 MVOLT (match with Holophane fixture).
 - b. Cooper Lighting GRANVIL-50-E-1

F. Approved fixture types as follows:

1. Shoe Box fixture, Lithonia Lighting, Contour series, KAD 1005 TB; GE Decashield Series, or approved equal.
2. Decorative fixtures
 - a. Decorative fixtures to be approved prior to installation and may be used only in certain situations consistent with Public Works policy.
 - b. Approved fixtures:
 - i. EMCO, Ecoround model, ERA201-3H100HPSMT-BLP-PCR
 - ii. Cooper Lighting, Epic series, ECM-100-HPS-MT-3S-FG-SO-BL-BK- L-VA6154-BK-R
 - iii. Eurotique, model EH22RT-100S-MOG-GCF-SR3-TB-ANBK w/ bracket EAG-4/1-PNIP6PER(ANBK)
 - c. Fixtures listed in black color. Dark bronze, when available, will be accepted.
3. Historic fixtures
 - a. Holophane BOISELED070ASRTRN MVOLT (match with Holophane light).
 - b. Cooper Lighting GRANVIL-50-E1 (note; light and fixture are integral).
4. Historic globes shall be Holophane Granville GV3N Glass or Continental ID21-C445 Type V.

PART 3 WORKMANSHIP

3.2 CONDUIT INSTALLATION

A. 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-23

3.8 POLE INSTALLATION

In paragraph B., delete reference to wood poles. Add reference to City of Boise standard drawing BC SD-23.

In paragraph C., add reference to City of Boise standard drawing BC SD-8 Historical Pole.

G. NOT USED FOR BOISE CITY INSTALLATIONS

3.11 SERVICE PEDESTAL

In paragraph B., Add the following sentence:

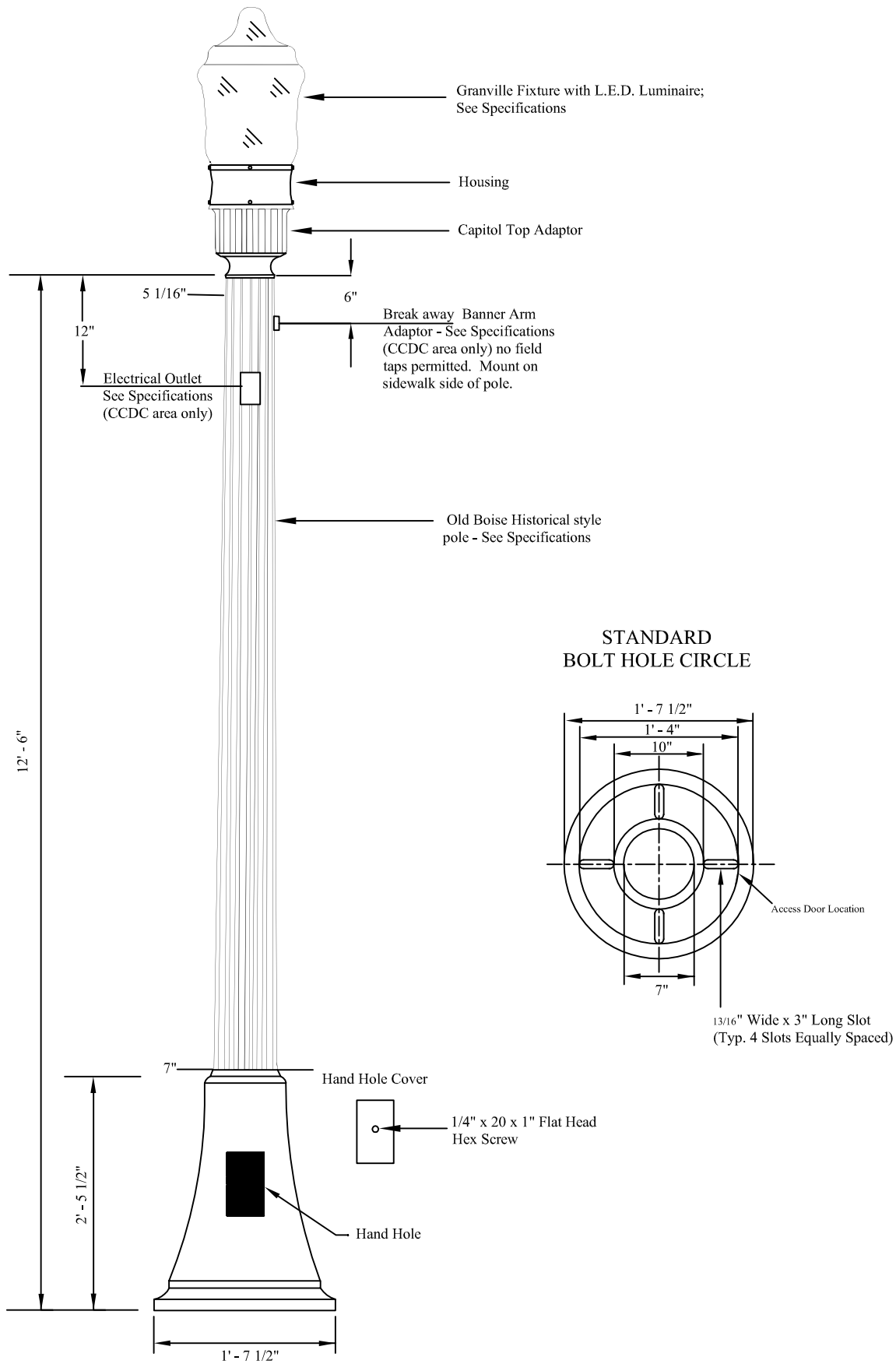
Service pedestals connected to historical street lights shall conform to SD-1126 with an additional meter connected to the electrical outlet circuit.

ADDITIONAL CITY OF BOISE STANDARD DRAWINGS

BC SD-8 HISTORICAL POLE DETAIL

BC SD-9 HISTORICAL POLE BASE DETAIL

BC SD-11 HISTORICAL STREET LIGHT PLACEMENT



Drawn By: H.A.

Checked By: B.C.

Date: 5/7/97



PUBLIC WORKS DEPARTMENT

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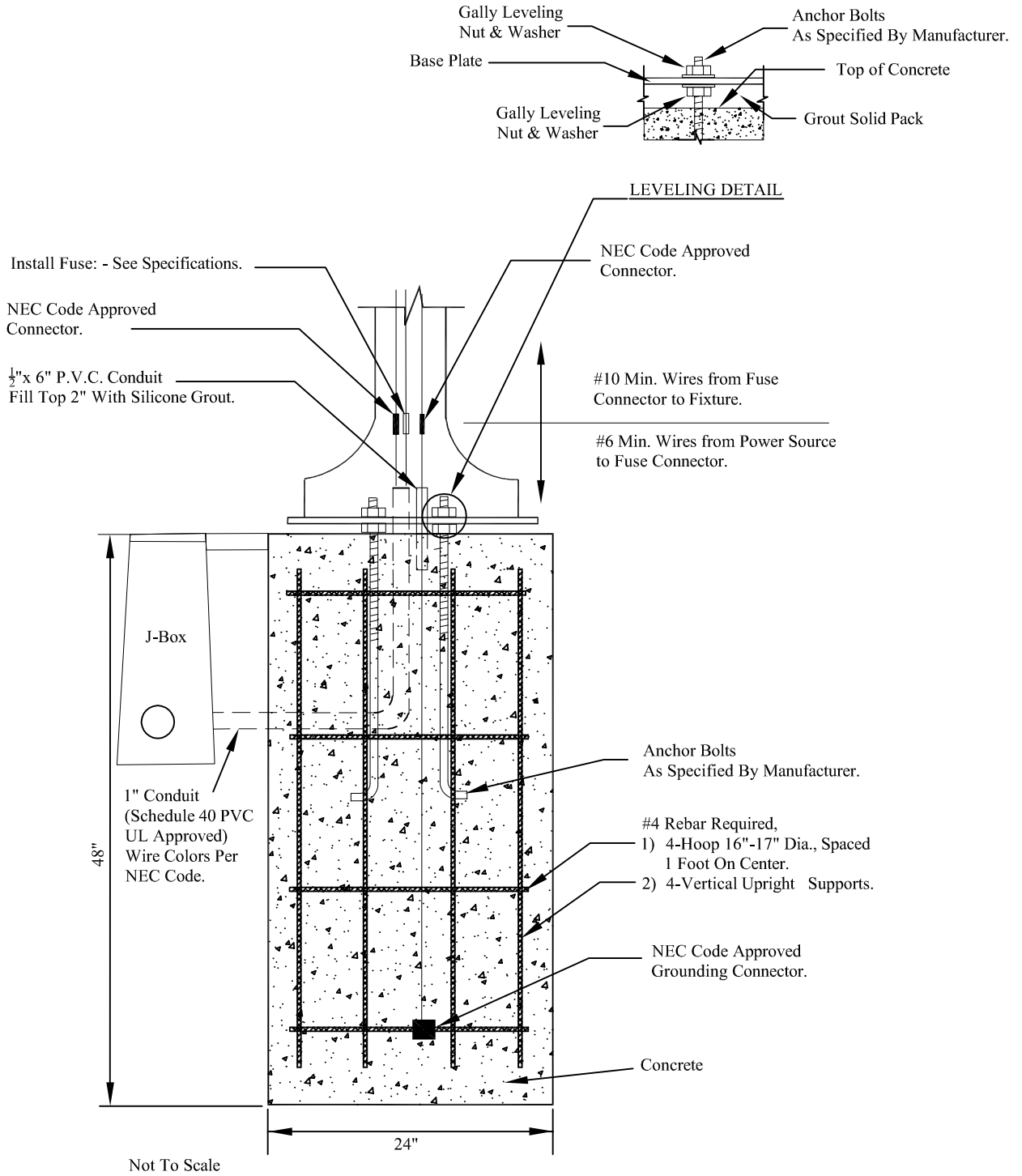
HISTORICAL POLE DETAIL

STANDARD DRAWING

NO.

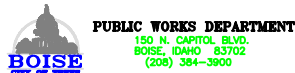
BC SD-8

REVISED: 06/24/2010



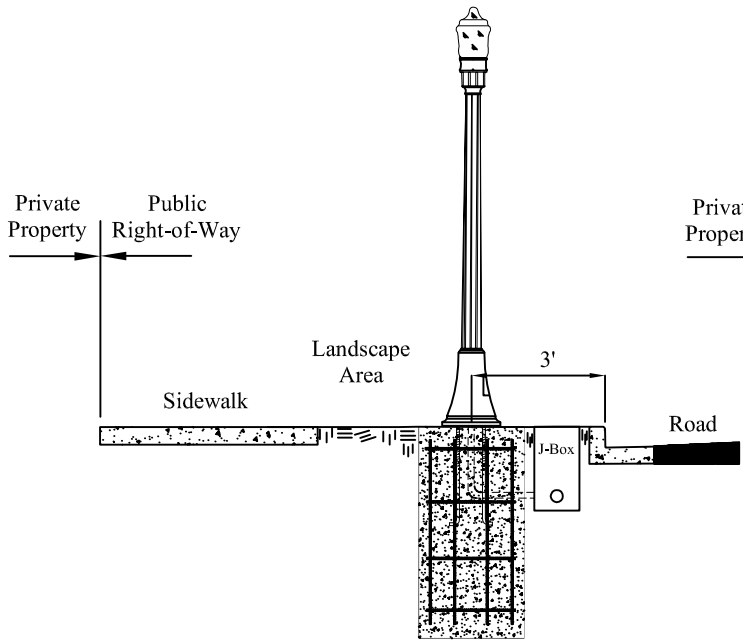
NOTE
 1. For grounding Details See ISPWC Standard Drawing SD-1109
 2. Ground Rod May Be Placed in Lieu of Connection to Rebar Cage.

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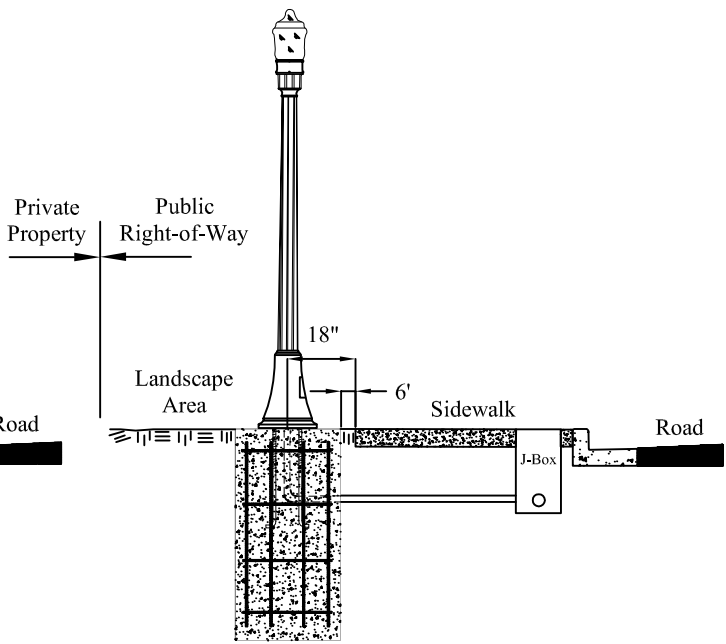


HISTORICAL POLE BASE DETAIL

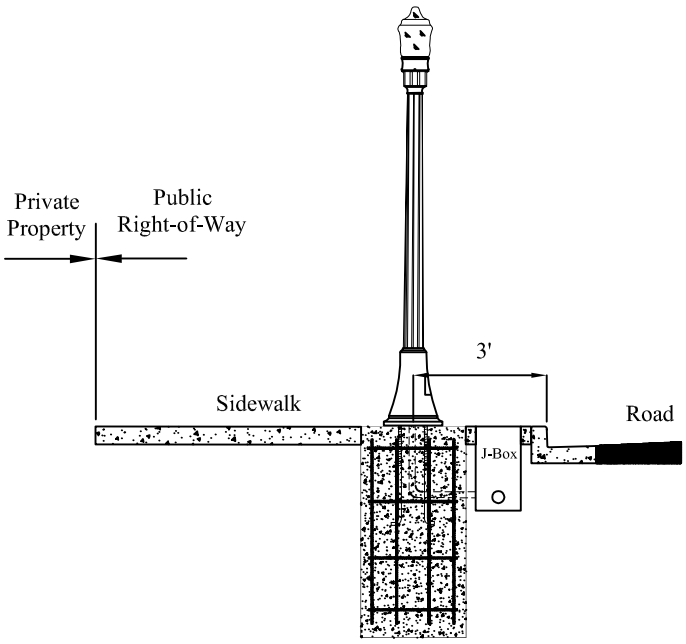
STANDARD DRAWING
 NO. **BC SD- 9**
 REVISED: 08/10/2006



Not to Scale



Not to Scale



Not to Scale