RESERVED (TRAFFIC SIGNALS APPROVED MATERIALS LIST)

RESERVED
(APPROVED MATERIALS LIST SECTION 200 – TRANSPORTATION)

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(APPROVED MATERIALS LIST SECTION 600 – PARKS)

All materials shall meet the requirements of the City of Longmont's Public Improvement Design Standards and Construction Specifications.

1. SPECIFICATION FOR METER HOUSINGS 200 AMPS OR LESS SINGLE-PHASE

A. General

(1) Description: Socket, Meter, 5 Terminal, 200 Amp, Continuous Duty Bypass required

(2) Unit of Measure: Each

(3) Use: Mounting watt-hour meters for residential and commercial revenue metering

(4) Recommended dimensions for individual meter sockets used in underground installations shall be: up to 200 amp – 19" height by 13" width

B. Standards

(1) All sockets shall have a lever-operated bypass and shall be constructed in accordance with and conform to the following ANSI (American National Standards Institute) publications.

(2) Meter socket bypass lever shall be constructed of metal.

(3) Two piece lids are not allowed unless combination meter main equipment is being used.

(4) Meter sockets shall have ringless style covers with latch capable of accommodating City seal and lock mechanism.

(5) Meter sockets shall be suitable for outdoor installation, i.e. weatherproof (NEMA 3R,IP,14, or equivalent)

C. Construction

(1) Meter sockets shall be constructed of galvanized steel, 16-gauge minimum. Non- metallic or aluminum enclosures are not acceptable

(2) Cover shall be of the one piece ringless type, equipped with a suitable devise for closing and sealing with padlock type seals.

(3) Finish shall be bonderized with light neutral gray baked enamel.

(4) Knockout for load carrying cable shall be concentric type.

(5) The general construction of the socket shall provide protection to personnel against accidental contact with energized elements of the meter and socket; and shall provide protection to the electrical components against adverse environmental weather conditions.

(6) All three wire sockets, both single-phase and network, shall have a fifth jaw installed at the 9 o'clock position.

D. Electrical

(1) The neutral terminal shall be electrically bonded to the enclosure by a bolted or riveted connection.

(2) A bonding jumper in the form of a separate screw, strap, or other means shall bond the enclosure to the grounded (neutral) conductor using a #4 AWG copper jumper.

(3) The following are pre-approved products:

a. Milbank part number: Z911531-AC

b. Durham part number: ARPO I074

c. Landis and Gyr #HQ Block, part number: 64 560-1

2. SPECIFICATIONS FOR 320 CLASS, NEMA 3R, IP, 14 OR EQUIVALENT METER HOUSING

A. 400 amp K-Base meter housings are not acceptable

B. General

(1) Socket, Meter, Self-Contained, 120/240 or 120/208 volt, single-phase, rated for up to 320 amps (continuous duty) shall have jaw-clamping, lever-operated bypass mechanism that can operate as a continuous duty bypass device.

(2) 320 class meter sockets shall be equipped with anti-inversion clips that prevent normal width terminal blades from being installed in a 320 class socket. All three wire sockets, both single-phase and network, shall have a fifth terminal installed at the 9 o'clock position.

(3) Two piece lids are not allowed, unless combination meter main equipment is being used. Recommended dimensions for individual meter sockets used in underground installations shall be:

320 amp – 26.5" height by 13" width

C. Standards

(1) Meter sockets should be constructed of galvanized steel, 16-gauge minimum. Non- metallic or aluminum enclosures are not acceptable.

(2) Meter sockets shall be suitable for outdoor installation, i.e. weatherproof (NEMA 3R, IP, 14, or equivalent).

(3) 320 class meter sockets shall be equipped with anti-inversion clips that prevent normal width terminal blades from being installed in a 320 socket.

(4) ANSI C12.7 American National Standard Requirements for Watt-hour Meter Sockets dated 1993 or latest revision.

D. Construction

(1) Sockets shall be constructed of 16 gauge (minimum) galvanized sheet steel.

(2) Cover shall be equipped with a suitable device for closing and sealing with padlock type seals.

(3) Finish shall be bonderized with light neutral gray baked enamel.

(4) Knockout for load carrying cable shall be concentric type.

(5) The general construction of the socket shall provide protection to personnel against accidental contact with energized elements of the meter and socket; and shall provide protection to the electrical components against adverse environmental weather conditions.

E. Electrical

(1) The neutral terminal shall be electrically bonded to the enclosure by means of a bolted or riveted connection.