

CT-METERING REQUIRED:

CURRENT TRANSFORMER (C.T.) METERING IS REQUIRED WHEN A THREE-PHASE SERVICE EXCEEDS 400 AMPERES, OR WHEN A SINGLE-PHASE SERVICE EXCEEDS 320 CONTINUOUS AMPERES. FOR SERVICES OVER 800 AMPERES SEE SECTION ON SWITCHBOARD METERING.

MAIN SERVICE DISCONNECT IS REQUIRED TO BE OUTSIDE AT METER LOCATION. THE C.T. METERING EQUIPMENT SHALL BE MOUNTED IN A LOCATION APPROVED BY LEHI CITY. CURRENT TRANSFORMERS **SHALL NOT BE INSTALLED** INSIDE OF THE PAD MOUNT TRANSFORMER.

WHEN METERING EQUIPMENT IS INSTALLED AT A LOCATION WHERE IT MAY BE STRUCK BY A VEHICLE, THE CUSTOMER IS REQUIRED TO INSTALL AND MAINTAIN AN APPROVED BARRIER POST. BARRIER POST (6" DIAMETER, CONCRETE FILLED) WHERE METERING EQUIPMENT IS INSTALLED IN VEHICLE TRAFFIC AREA.

THE CUSTOMER SHALL PROVIDE AND INSTALL:

THE WEATHER TIGHT METALIC CABINET (NEMA 3R, EUSERC 316 OR EQUAL, 24" x 48" x 11" FOR SINGLE PHASE AND 36"x48"x11" FOR THREE PHASE MINIMUM) SEALABLE WITH A LOCKABLE HINGED DOOR, SECURELY MOUNTED ON A RIGID SURFACE. THE TOP OF THE CABINET SHALL BE NO MORE THAN 6 FEET FROM FINAL GRADE.

EUSERC APPROVED (EUSERC 328A FOR SINGLE PHASE, 329A FOR THREE PHASE) CURRENT TRANSFORMER MOUNTING BASE RATED 50,000 AMPERE FAULT DUTY.

THE CURRENT TRANSFORMER METER SOCKET WITH A SPACE RESERVED BELOW THE SOCKET FOR A TEST SWITCH (EUSERC 339) SHALL BE MOUNTED SO THAT THE CENTER OF THE METER IS 5'-6" MINIMUM FROM THE FINAL GRADE. METER SOCKETS WITH CIRCUIT CLOSURES OR BYPASS CLIPS **ARE NOT APPROVED**.

THE CONDUIT BETWEEN THE METER SOCKET AND THE C.T. CABINET. RIGID 1" MINIMUM WITH PROPER FITTINGS AND BUSHINGS, NOT TO EXCEED 12" IN LENGTH.

TERMINATE WITH APPROVED CONNECTORS THE CONDUCTORS BETWEEN THE TRANSFORMER AND THE LINE SIDE OF THE CURRENT TRANSFORMER-MOUNTING BASE.

TERMINATE WITH APPROVED CONNECTORS THE CONDUCTORS BETWEEN THE CUSTOMER PANEL AND THE LOAD SIDE OF THE CURRENT TRANSFORMER-MOUNTING BASE.

GROUNDING PER NEC (ARTICLE 250 GROUNDING) FOR ALL METER AND CURRENT TRANSFORMER ENCLOSURES. (SEE 7.4.1, 7.4.2)

LEHI CITY POWER SHALL OWN, PROVIDE AND INSTALL:

- THE METER AND TEST SWITCH.
- THE CURRENT TRANSFORMERS.
- THE WIRING BETWEEN THE CURRENT TRANSFORMER AND THE METER SOCKET ENCLOSURE.

ANY CHANGES OR DEVIATIONS MUST HAVE PRIOR WRITTEN APPROVAL FROM LEHI CITY POWER ENGINEERING DIVISION.

DRAWING: LEHI_DWG_010117_2016



**REQUIREMENTS & STANDARDS
ELECTRICAL SERVICE
REQUIREMENTS
CT METERING 800 AMP MAX.
COMMERCIAL/1 PHASE-3PHASE POWER SERVICE**

DWG: 6.2.1
REV. 0.00
BY: GWK/BT
DATE: 3/28/17