

## SWITCH BOARD METERING

A EUSERC (EUSERC 354 OUTDOOR) SWITCHBOARD METERING SECTION IS REQUIRED WHEN THE SERVICE ENTRANCE RATING IS GREATER THAN 800 AMPERES. THE METERING CURRENT TRANSFORMERS WILL BE LOCATED IN THE CURRENT TRANSFORMER COMPARTMENT. THE METER AND TEST SWITCH MAY BE MOUNTED ON THE HINGED COVER OF THE COMPARTMENT OR MOUNTED REMOTELY WITH LEHI CITY POWER APPROVAL. THE AREA BELOW THIS COMPARTMENT'S BARRIER MAY BE USED AS A MAIN SWITCH (BREAKER) COMPARTMENT, OR A LOAD DISTRIBUTION COMPARTMENT. THE METERING COMPARTMENT SHALL BE ON THE SUPPLY SIDE OF THE MAIN SWITCH OR BREAKER.

THE MOUNTING PAD FOR ALL SWITCHBOARD METERING ENCLOSURES WILL BE A MINIMUM 4" THICK CONCRETE PAD, EXTENDING 3' IN FRONT OF THE ENCLOSURE TO ENSURE AN ADEQUATE AND SAFE WORK AREA.

### THE CUSTOMER WILL PROVIDE AND INSTALL:

THE CONDUIT AND CONDUCTORS, A MAXIMUM OF 32 CONDUCTORS NOT TO EXCEED 750 MCM MAXIMUM, CONDUCTOR SIZED PER NEC ACCORDING TO THE FULL LOAD CAPACITY OF THE TRANSFORMER.

THE SWITCHBOARD SERVICE SECTION, CURRENT TRANSFORMER MOUNTING BASE, PANELS, PULLING SECTION SEPERATE FROM THE CT COMPARTMENT, METER SOCKET AND PROVISIONS FOR A TEST SWITCH.

CURRENT TRANSFORMER BUSS BARS, AND TERMINATING BOLTS MUST BE SECURED IN PLACE AND SHALL BE PROVIDED WITH NUTS, FLAT WASHER, SPRING WASHERS, AND ALL PARTS MUST BE PLATED TO PREVENT CORROSION. BUSS BARS ARE REQUIRED FROM THE PULL SECTION INTO THE SERVICE SECTION.

ALL PULL AND TERMINATION SECTIONS SHALL BE FULL FRONT ACCESS. COVER PANELS SHALL BE REMOVABLE, SEALABLE, AND PROVIDED WITH TWO LIFTING HANDLES, AND LIMITED TO 9 SQUARE FEET IN AREA.

ALL REMOVABLE PANELS AND COVERS TO THE COMPARTMENTS USED FOR TERMINATING OR ROUTING CONDUCTORS SHALL HAVE SEALING PROVISIONS.

GROUNDING MUST MEET NEC REQUIREMENTS. LUGS FOR TERMINATING THE CUSTOMER'S GROUND WIRE SHALL BE LOCATED OUTSIDE OF THE SEALABLE SECTION AND SHALL BE DESIGNED TO READILY PERMIT THE CUSTOMER'S NEUTRAL SYSTEM TO BE ISOLATED, WHEN NECESSARY, FROM LEHI CITY'S NEUTRAL.

THE NEC REQUIRES A CLEAR WORKSPACE OF 78" HIGH BY 70" WIDE BY 48" DEEP IN FRONT OF METERING EQUIPMENT.

### LEHI CITY WILL OWN, PROVIDE AND INSTALL:

THE METER AND TEST SWITCH.  
THE CURRENT TRANSFORMERS.  
THE WIRING BETWEEN THE CURRENT TRANSFORMERS AND THE METER TEST SWITCH.

**ANY CHANGES OR DEVIATIONS MUST HAVE PRIOR WRITTEN APPROVAL BY LEHI CITY POWER METERING DIVISION.**



**REQUIREMENTS & STANDARDS**  
**REQUIREMENTS FOR**  
**ELECTRIC SERVICE**  
**SWITCHBOARD METERING**  
**OVER 400 AMP COMMERCIAL & INDUSTRIAL 3<sup>^</sup> POWER**

DWG: **6.3.1**

REV. 0.00

BY: GWK/BT

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