



**1** UTILITY METER SOCKET WIRING  
 A1.01 SCALE: NO SCALE

**GENERAL NOTES**

- CONSTRUCTION SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL ELECTRICAL CODES AND STANDARDS.
- COORDINATE WITH UNL UTILITIES TO ALLOW ANY AND ALL INSPECTIONS BEFORE, DURING AND AFTER METER INSTALLATION AND CIRCUITING IS COMPLETE.
- COORDINATE WITH UNL PROJECT MANAGER FOR REQUIRED TEMPORARY POWER OUTAGES AND FOR ANY ANTICIPATED LOUD WORK GENERATING VIBRATIONS. COORDINATE A MINIMUM OF THREE (3) DAYS PRIOR TO SUCH WORK.
- TYPICALLY, SOLID CORE CURRENT TRANSFORMERS (CT'S) WILL BE INSTALLED VS. SPLIT CORE STYLE CT'S. SOLID CORE CT'S REQUIRE TEMPORARY DISCONNECTION OF EXISTING TRANSFORMER SECONDARY CONDUCTORS. PROVIDE THIS WORK AS REQ'D.
- ALL EXTERIOR ENCLOSURE PENETRATIONS SHALL BE WATER PROOFED.
- EXACT LOCATIONS AND PLACEMENT OF POSITIONS OF CT'S, METER SOCKET, AND SOCKET TEST SWITCH ON TRANSFORMER EXTERIOR SHALL BE REVIEWED AND APPROVED ON A PROJECT-BY-PROJECT BASIS.
- AS MUCH AS PRACTICAL, THE METER SOCKET, TEST SWITCH, AND CT'S SHALL BE PRE-WIRED OFF SITE TO MINIMIZE POWER OUTAGE DURATION.
- ALL CONDUCTORS SHALL BE SOLID CORE, #12AWG, COPPER, XHHW-2 TYPE CONDUCTORS. ALL NEW METER CONDUCTORS SHALL HAVE CONTINUOUS COLORED JACKETING MATCHING COLOR CODING PROVIDED ON THIS SHEET.

**# KEY NOTES**

- TERMINATE VOLTAGE CONDUCTOR ON TRANSFORMER SPADE. ADD LUGS AS REQ'D.
- CURRENT TRANSFORMER (CT) POLARITY MARK. POSITION TOWARDS SOURCE.
- CT FURNISHED BY UNL, INSTALLED BY CONTRACTOR. POSITION TO MINIMIZE STRAIN ON SECONDARY CONDUCTORS AS MUCH AS POSSIBLE.
- CT SHORTING BLOCK INTEGRAL TO CT. SHOWN FOR REFERENCE ONLY.
- NEATLY TRAIN METER CONDUCTORS INSIDE TRANSFORMER COMPARTMENT THRU TO TEST SWITCH. USE ZIP TIES AS REQ'D. ENSURE PROPER SLACK IS PROVIDED.
- BOND NEUTRAL METER CONDUCTOR TO GND STUD ON TEST SWITCH ENCLOSURE.
- METER SOCKET TEST SWITCH ENCLOSURE WITH VOLTAGE SWITCHES AND CT SHORTING SWITCHES. FURNISHED BY UNL, INSTALLED BY CONTRACTOR.
- METER SOCKET FURNISHED BY UNL, INSTALLED BY CONTRACTOR. METER BY UNL. SOCKET INTERNAL WIRING SHOWN HERE FOR REFERENCE ONLY.
- 1" GRS CONDUIT SURFACE MOUNTED ON TRANSFORMER EXTERIOR. PROVIDE TWO (2) 600V RATED CAT 5E CABLES FROM METER SOCKET TO J-BOX (KEYNOTE 8). BELDEN #7957A OR EQUAL CABLES. PROVIDE WITH FACTORY RJ45 JACKS ON BOTH ENDS.
- 4" SQ., NEMA 3R, GASKETED J-BOX. MOUNT TO TRANSFORMER EXTERIOR AT 18" ABOVE TRANSFORMER PAD. CONNECT CAT 5E CABLES VIA A RJ45-TO-RJ45 COUPLER.
- 1" GRS CONDUIT SURFACE MOUNTED ON TRANSFORMER EXTERIOR. PROVIDE TWO (2) CAT 5E CABLES FROM J-BOX TO BUILDING PER PROJECT DIRECTION. CABLES SHALL BE BELDEN #7929A OR EQUAL CABLES WITH RJ45 JACKS ON BOTH ENDS.

**SYMBOLS LEGEND**

■	CONDUCTOR TERMINATION/CONNECTION	PHASE TAP CONDUCTORS	
●	CURRENT TRANSFORMER POLARITY MARK	GY	GRAY JACKETED CONDUCTOR
⊂	CURRENT TRANSFORMER	BL	BLACK JACKETED CONDUCTOR
J	JUNCTION BOX	BU	BLUE JACKETED CONDUCTOR
		RE	RED JACKETED CONDUCTOR
		CURRENT XFMR CONDUCTORS	
		WH	WHITE JACKETED CONDUCTOR
		BR	BROWN JACKETED CONDUCTOR
		OR	ORANGE JACKETED CONDUCTOR
		YW	YELLOW JACKETED CONDUCTOR