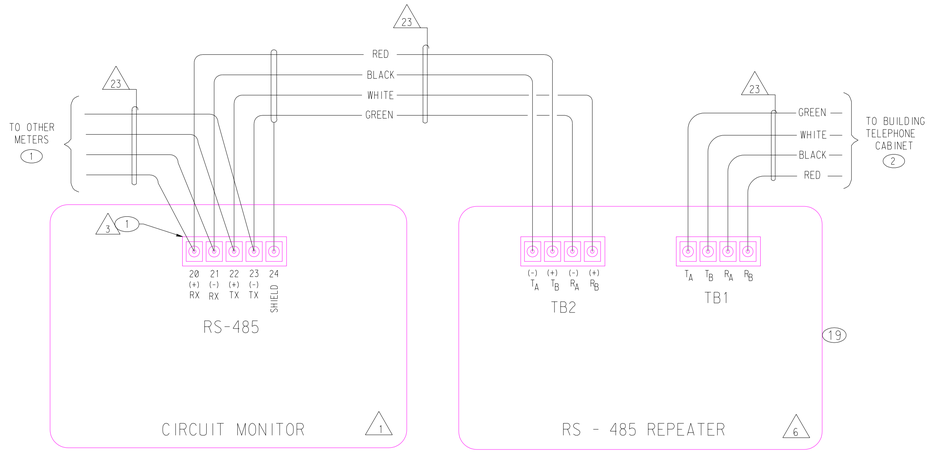
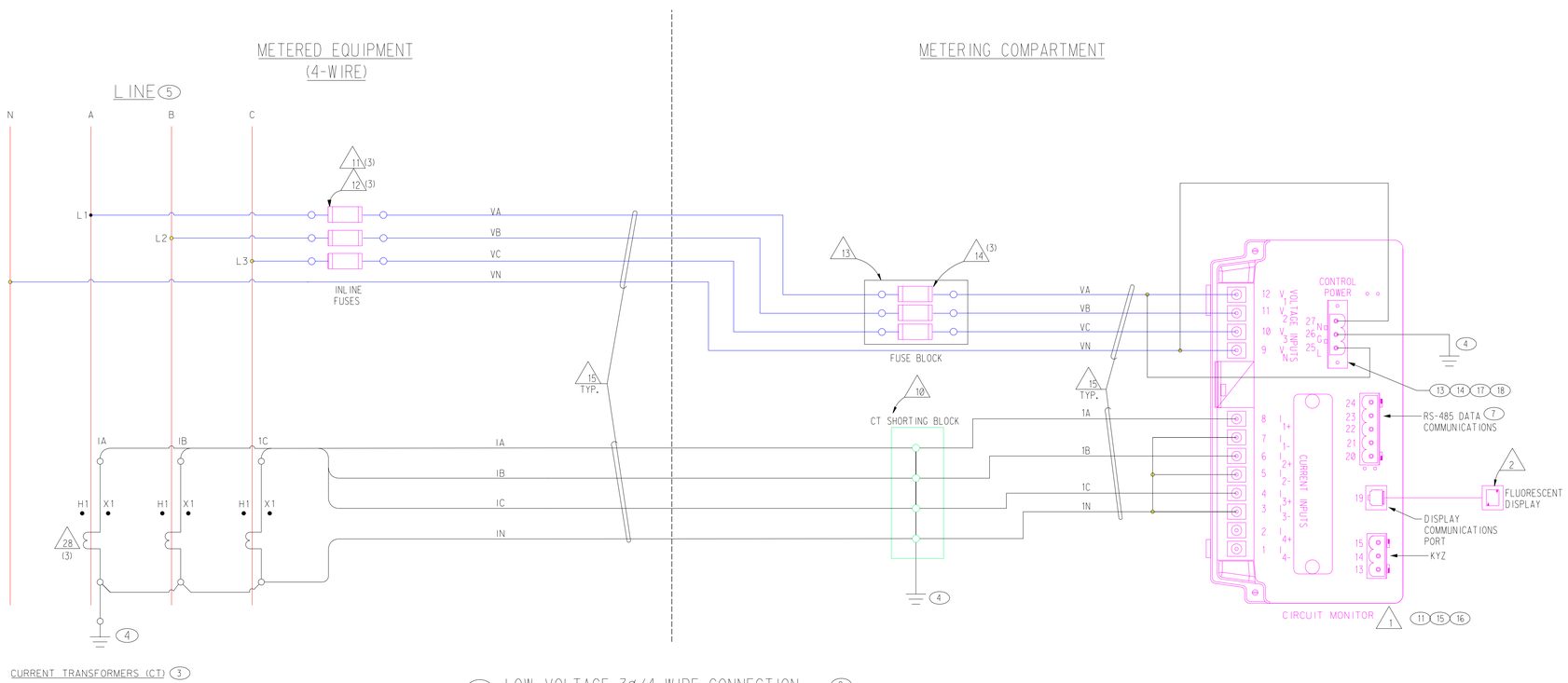


A DAISY CHAIN CONNECTION - FIRST DEVICE

SCALE: NONE



B LOW VOLTAGE 3Ø/4 WIRE CONNECTION 9

SCALE: NONE

GENERAL NOTES

1. SEE DRAWING NO. E15001STD FOR METERING CIRCUIT MONITOR ENCLOSURE AND MOUNTING DETAILS.
2. SEE DRAWING NO. E16004STD FOR EQUIPMENT LIST.
3. WIRING COLORS AND CONVENTIONS MUST BE FOLLOWED THROUGHOUT.
4. ALL CURRENT TRANSFORMER TERMINATIONS TO BE MADE WITH RING TERMINALS.
5. METER WIRING DETAILS FOR INFORMATION PURPOSES ONLY. REFER TO MANUFACTURER'S REFERENCE MANUALS FOR DETAILED INSTALLATION AND TERMINATION INSTRUCTIONS.
6. PAY CLOSE ATTENTION TO POLARITY MARKS (•) WHEN CONNECTING CTs.

KEYED NOTES

1. WHEN SINGLE METER IS USED, TERMINATOR 3 MUST BE INSTALLED ON RS485 PORT WHEN MULTIPLE METERS ARE DAISY-CHAINED, LOCATE TERMINATOR AT METER FARTHEST FROM REPEATER.
2. EXISTING TERMINAL BLOCK IN BUILDING TELEPHONE CABINET.
3. SIZE CTs FOR BUS RATING OF METERED EQUIPMENT.
4. CONNECT TO EXISTING EQUIPMENT SERVICE GROUND.
5. SYSTEM $V_{LL} \leq 600$ VRMS.
6. SYSTEM $V_{LL} > 600$ VRMS.
7. REFERENCE DETAIL A FOR METERING COMMUNICATION LINK WIRING.
8. SIZE PT SECONDARIES FOR 120V L-N.
9. USE FOR SYSTEMS WHERE SYSTEM V_{LL} IS 600V OR LESS.
10. USE FOR SYSTEMS WHERE SYSTEM V_{LL} EXCEEDS 600V.
11. USE SYSTEM TYPE 3Ø4W 3CT.
12. USE SYSTEM TYPE 3Ø3W 2CT.
13. CONTROL POWER CAN BE DRAWN FROM FUSED VOLTAGE INPUTS OR AN EXTERNAL SOURCE.
14. CONTROL POWER RANGE: 90-305 VAC, 100-300 VDC.
15. USE MOUNTING ADAPTER 4 FOR NEW CM-3250 INSTALLATIONS.
16. USE MOUNTING ADAPTER KIT 5 FOR CM-3250 RETROFITS INTO EXISTING CM-2X50 INSTALLATIONS.
17. SEPARATE CONTROL POWER PT MUST BE USED WHEN SYSTEM V_{LN} EXCEEDS 300VAC.
18. USE 500VA OR LARGER PTs WHEN CONTROL POWER IS DERIVED FROM METERING INPUTS.
19. LOCATE REPEATER IN OR NEAR IDR/TELEPHONE EQUIPMENT ROOM.

P.O. / PROJECT NO.	REV	DATE	DESCRIPTION	DWN	CKD	APP
	A	7/03	CREATION OF NEW METERING STD	MIP	JR	

U.S. DEPARTMENT OF ENERGY

KIRTLAND AREA OFFICE — ALBUQUERQUE, NEW MEXICO

SANDIA NATIONAL LABORATORIES

LOW VOLTAGE METERING WIRING DETAILS

METERING

ELECTRICAL — STANDARDS

P.O.	
PROJECT NO.	
DRAWN BY	10863
CHECKED BY	J. RATHBUN
SNL ENGR	
DATE	4/03
SIZE	D+
DRAWING NO	E17015STD
SEQ.	

MICROSTATION FILE

FILE NAME: E17015STD.dgn

REFERENCE FILES: BORDER.DGN

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