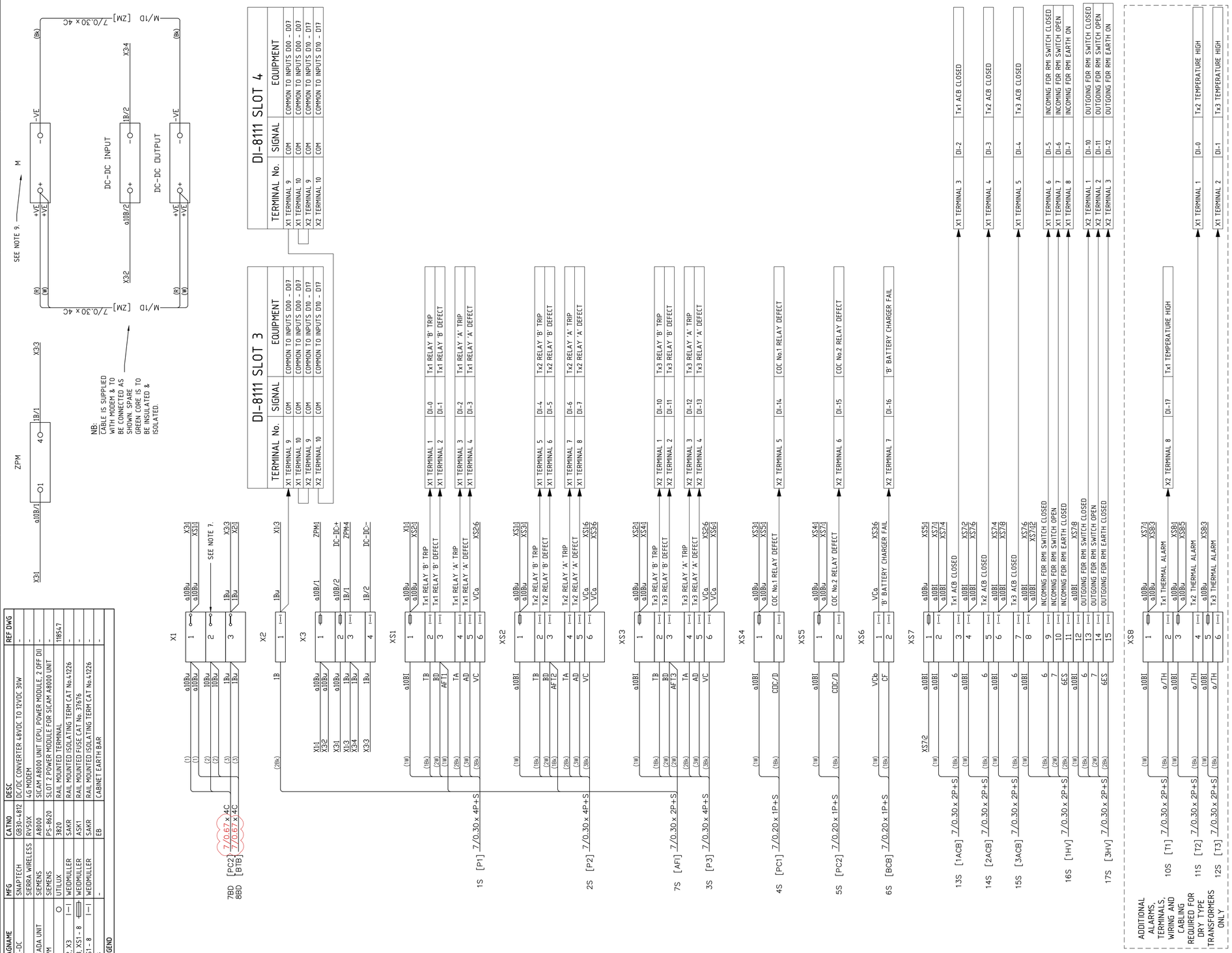

TAGNAME	MFG	CATNO	DESC	REF DWG
DC-DC	SMARTECH	GB30-48T12	DC/DC CONVERTER 48VDC TO 12VDC 30W	-
M	SIERRA WIRELESS	RV50X	4G MODEM	-
SCADA UNIT	SIEMENS	A8000	SICAM A8000 UNIT (CPU, POWER MODULE, 2 OFF DI)	-
ZPM	SIEMENS	PS-8620	SLOT 2 POWER MODULE FOR SICAM A8000 UNIT	-
X1	UTILUX	3820	RAIL MOUNTED TERMINAL	11854.7
X2, X3	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-
X3, XS1 - 8	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 31676	-
XS1 - 8	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-
EB	-	EB	CABINET EARTH BAR	-

LEGEND

NOTES:

1. THIS DRAWING SHOWS THE SCADA PANEL TERMINAL LAYOUT AND CABLING WHICH IS TO BE USED IN CONJUNCTION WITH RMICB CHAMBER TYPE SUBSTATIONS WITH ARC FLASH DETECTION INSTALLED. IT SHOULD BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
2. ADDITIONAL TERMINALS, WIRING AND CABLING TO MARSHAL SIGNALS BETWEEN VARIOUS CONTROL AND PROTECTION PANELS LOCATED INSIDE THE SUBSTATION ARE TO BE MOUNTED INSIDE THE SCADA PANEL (ZM) AS SHOWN ON THIS DRAWING.
3. WIRING FOR THESE ADDITIONAL CONNECTIONS ARE TO BE 7/0.40, 0.6kV V75 GRADE WITH PVC INSULATION. ALL INSULATION IS TO BE GREY COLOURED EXCEPT FOR EARTH WIRES WHICH ARE TO BE GREEN/YELLOW.
4. ALL WIRING TO HAVE IDENTIFICATION FERRULES FITTED AT BOTH ENDS OF WIRE ADJACENT TO TERMINALS WHERE POSSIBLE. WIRE IDENTIFICATION CODES TO BE IN ACCORDANCE WITH THIS DRAWING.
5. THE CABLING ON THIS DRAWING AND CABLE SCHEDULE (SEE DWGS 227355-1 & 227355-2) IS FOR A 3 TRANSFORMER SUBSTATION WITH 2 CUSTOMER SUPPLY PANELS. SEE DRAWING 178227-1 FOR ACCEPTABLE SUBSTATION CONFIGURATIONS. FOR VARIATIONS OF SUBSTATION CONFIGURATION, DELETE ANY EQUIPMENT NOT REQUIRED.
6. CABLE NAMING TO FOLLOW CABLE SCHEDULE.
7. THE 10Bu IS THE 30V 'B' DC PROTECTION +VE SUPPLY, NOT TO BE USED FOR OTHER PURPOSES.
8. ALARM AND SIGNAL CABLE SCREENS TO BE EARTH AT SCADA CABINET ONLY.
9. NOT SHOWN: NETWORK CONNECTION BETWEEN MODEM & SCADA CPU X3 PORT (SLOT 1). MODEM ANTENNA, MOUNTED AS SUITED TO INSTALLATION.

AFI	ARC FLASH DETECTION INDICATION PANEL
B	48V - 30V(TAPPED) DC 'B' BATTERY
BCB	BATTERY CHARGER B
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
P1	TRANSFORMER No.1 PROTECTION PANEL
P2	TRANSFORMER No.2 PROTECTION PANEL
P3	TRANSFORMER No.3 PROTECTION PANEL
T1	TRANSFORMER No.1 CONTROL PANEL (DRY TYPE)
T2	TRANSFORMER No.2 CONTROL PANEL (DRY TYPE)
T3	TRANSFORMER No.3 CONTROL PANEL (DRY TYPE)
1ACB	TRANSFORMER No.1 ACB PANEL
2ACB	TRANSFORMER No.2 ACB PANEL
3ACB	TRANSFORMER No.3 ACB PANEL
1HV	INCOMING FEEDER RMI SWITCH
3HV	OUTGOING FEEDER RMI SWITCH

PANEL ABBREVIATION TABLE

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

1. BORDER & TITLE BLOCK UPDATED. M.BENNETT 20/01/2023 CHECKED: M.BENNETT APPROVED: M.BENNETT
2. REF REVISIONS CLOUDS IN RED: AMENDED SCADA RELAY TYPE & CONNECTIONS. ADDED SCADA RELAY TERMINATIONS. ADDED DC-DC CONVERTER & X3 TERMINALS. AMENDED NOTES ADDED NOTE 9. L.MARTINUZZI 25-05-2023 CHECKED: M.BENNETT APPROVED: M.BENNETT
3. REF REVISIONS CLOUDS IN RED: AMENDED CABLE SIZE TO MATCH CABLE SCHEDULE. L.MARTINUZZI 02-08-2023 CHECKED: M.BENNETT APPROVED: M.BENNETT

RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION C&P DRAWINGS	227350 TO 227359
ABB 1500KVA DRY TYPE TRANSFORMER CONTROL WIRING CONTRACT EA7670/05	206257-1

ASSOCIATED DRAWINGS

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ISSUED FOR CONSTRUCTION

SCALE	NTS
DESIGNED	-
DRAWN	L.MARTINUZZI
CHECKED	W.BYRNE
APPROVED	M.BENNETT
DATE	16/06/2012
TRIM REF	-
PROJECT NUMBER	SM-06717

RMICB SUBSTATIONS WITH E TYPE LV BOARD & OPTICAL ARC FLASH DETECTION SCADA PANEL WIRING & CABLING DETAILS

DRAWING No 227358 | SHEET 1 | AMD 3 | SIZE A1

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