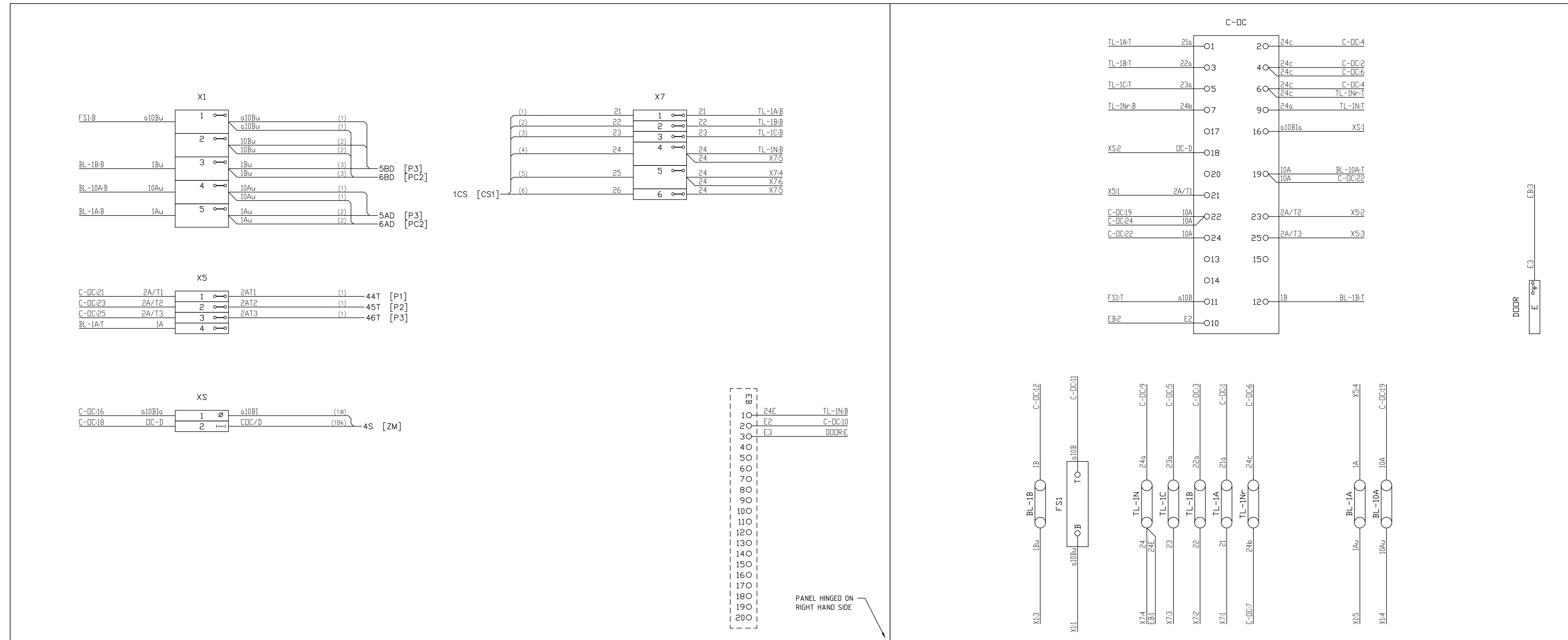


## CUSTOMER OVERCURRENT PROTECTION PANEL No.1 (SEE NOTE 4)



PANEL TERMINAL RAIL LAYOUT FRONT VIEW

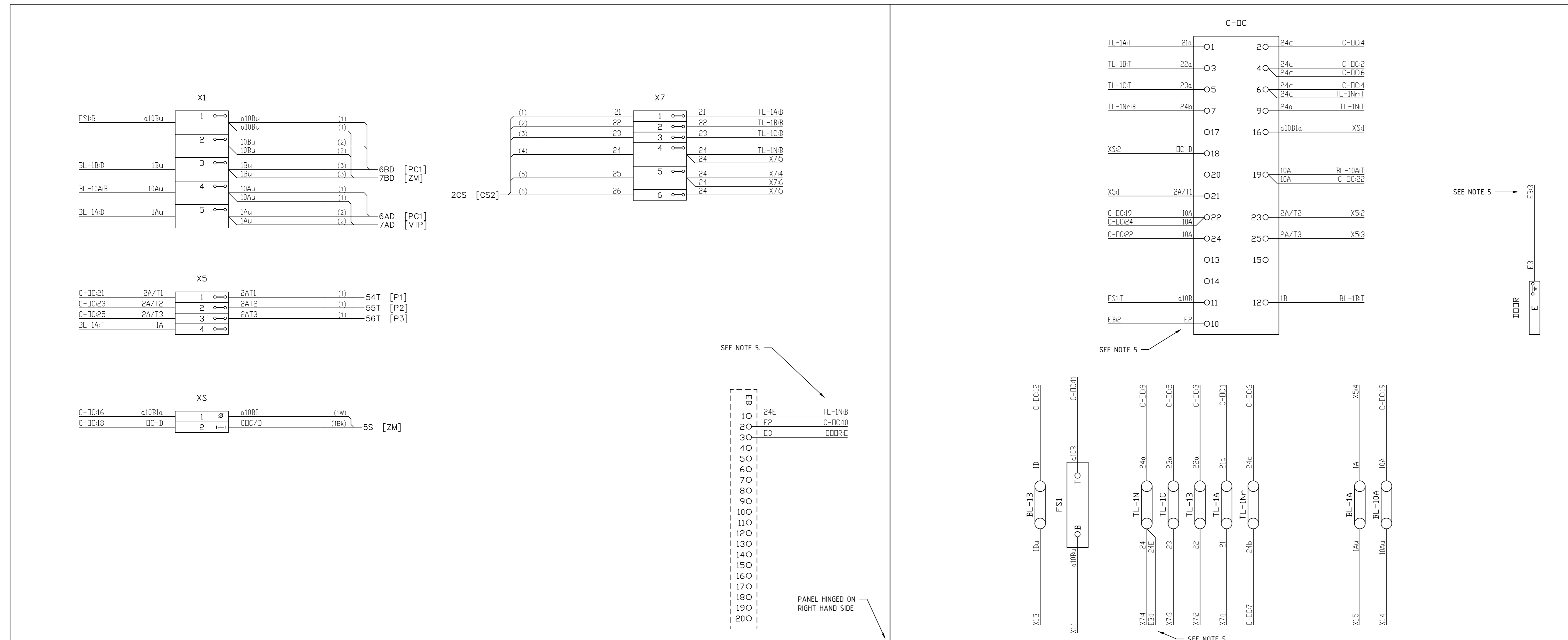
PANEL DOOR REAR VIEW

### NOTES:

1. LINKS SHOULD BE MOUNTED SO THAT THE MOVEABLE LINK FALLS OPEN WHEN RELEASED.
2. NUMBERING ON BATTERY AND TEST LINKS REFERS TO LINK IDENTIFICATION AS SHOWN ON THE ASSOCIATED AC & DC PROTECTION SCHEMATICS. SEE DRAWING REFERENCE TABLE.
3. ALL PANEL WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED GREY UNLESS OTHERWISE SPECIFIED. ALL EARTH WIRING TO BE COLOURED GREEN/YELLOW.
4. FOR DUAL PANEL VERSION, THE TOP HALF OF THE PANEL WILL BE CUSTOMER OVERCURRENT No.1 AND THE BOTTOM HALF OF THE PANEL WILL BE CUSTOMER OVERCURRENT No.2.
5. FOR DUAL PANEL VERSION ONLY A SINGLE EARTH BAR IS INSTALLED. EARTH WIRES FOR CUSTOMER OVERCURRENT No.2 PANEL ARE TO BE RENAMED AND TERMINATION TO EARTH BAR MOVED AS BELOW.  
 24E BECOMES 24E/2 TERMINATES ON E4  
 E2 BECOMES E2/2 TERMINATES ON E5  
 E3 BECOMES E3/2 TERMINATES ON E6
6. 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
7. TEST LINKS (TL) TO BE WIRED N-C-B-A LEFT TO RIGHT WHEN VIEWED FROM THE REAR OF THE PANEL.
8. THE WIRING SHOWN IS BASED ON THE RELAYS LISTED IN THE LEGEND.
9. PANEL DOOR LAYOUT IS REPRESENTATIVE, FOR ACTUAL DOOR LAYOUT SEE DWG 227353Sh01.
10. ALARM AND SIGNAL CABLE SCREENS TO BE ISOLATED AND NOT TO BE TERMINATED IN THIS CABINET. SCREENS ONLY TO BE EARTHED AT SCADA CABINET.

TAGNAME	DESC
CS1	CUSTOMER SUPPLY No 1 PANEL
CS2	CUSTOMER SUPPLY No 2 PANEL
P1	TRANSFORMER No 1 PROTECTION PANEL
P2	TRANSFORMER No 2 PROTECTION PANEL
P3	TRANSFORMER No 3 PROTECTION PANEL
P4	TRANSFORMER No 4 PROTECTION PANEL
P5	TRANSFORMER No 5 PROTECTION PANEL
P6	TRANSFORMER No 6 PROTECTION PANEL
P7	TRANSFORMER No 7 PROTECTION PANEL
P8	TRANSFORMER No 8 PROTECTION PANEL
P9	TRANSFORMER No 9 PROTECTION PANEL
P10	TRANSFORMER No 10 PROTECTION PANEL
P11	TRANSFORMER No 11 PROTECTION PANEL
P12	TRANSFORMER No 12 PROTECTION PANEL
P13	TRANSFORMER No 13 PROTECTION PANEL
P14	TRANSFORMER No 14 PROTECTION PANEL
P15	TRANSFORMER No 15 PROTECTION PANEL
P16	TRANSFORMER No 16 PROTECTION PANEL
P17	TRANSFORMER No 17 PROTECTION PANEL
P18	TRANSFORMER No 18 PROTECTION PANEL
P19	TRANSFORMER No 19 PROTECTION PANEL
P20	TRANSFORMER No 20 PROTECTION PANEL
P21	TRANSFORMER No 21 PROTECTION PANEL
P22	TRANSFORMER No 22 PROTECTION PANEL
P23	TRANSFORMER No 23 PROTECTION PANEL
P24	TRANSFORMER No 24 PROTECTION PANEL
P25	TRANSFORMER No 25 PROTECTION PANEL
P26	TRANSFORMER No 26 PROTECTION PANEL
P27	TRANSFORMER No 27 PROTECTION PANEL
P28	TRANSFORMER No 28 PROTECTION PANEL
P29	TRANSFORMER No 29 PROTECTION PANEL
P30	TRANSFORMER No 30 PROTECTION PANEL
P31	TRANSFORMER No 31 PROTECTION PANEL
P32	TRANSFORMER No 32 PROTECTION PANEL
P33	TRANSFORMER No 33 PROTECTION PANEL
P34	TRANSFORMER No 34 PROTECTION PANEL
P35	TRANSFORMER No 35 PROTECTION PANEL
P36	TRANSFORMER No 36 PROTECTION PANEL
P37	TRANSFORMER No 37 PROTECTION PANEL
P38	TRANSFORMER No 38 PROTECTION PANEL
P39	TRANSFORMER No 39 PROTECTION PANEL
P40	TRANSFORMER No 40 PROTECTION PANEL
P41	TRANSFORMER No 41 PROTECTION PANEL
P42	TRANSFORMER No 42 PROTECTION PANEL
P43	TRANSFORMER No 43 PROTECTION PANEL
P44	TRANSFORMER No 44 PROTECTION PANEL
P45	TRANSFORMER No 45 PROTECTION PANEL
P46	TRANSFORMER No 46 PROTECTION PANEL
P47	TRANSFORMER No 47 PROTECTION PANEL
P48	TRANSFORMER No 48 PROTECTION PANEL
P49	TRANSFORMER No 49 PROTECTION PANEL
P50	TRANSFORMER No 50 PROTECTION PANEL
P51	TRANSFORMER No 51 PROTECTION PANEL
P52	TRANSFORMER No 52 PROTECTION PANEL
P53	TRANSFORMER No 53 PROTECTION PANEL
P54	TRANSFORMER No 54 PROTECTION PANEL
P55	TRANSFORMER No 55 PROTECTION PANEL
P56	TRANSFORMER No 56 PROTECTION PANEL
P57	TRANSFORMER No 57 PROTECTION PANEL
P58	TRANSFORMER No 58 PROTECTION PANEL
P59	TRANSFORMER No 59 PROTECTION PANEL
P60	TRANSFORMER No 60 PROTECTION PANEL
P61	TRANSFORMER No 61 PROTECTION PANEL
P62	TRANSFORMER No 62 PROTECTION PANEL
P63	TRANSFORMER No 63 PROTECTION PANEL
P64	TRANSFORMER No 64 PROTECTION PANEL
P65	TRANSFORMER No 65 PROTECTION PANEL
P66	TRANSFORMER No 66 PROTECTION PANEL
P67	TRANSFORMER No 67 PROTECTION PANEL
P68	TRANSFORMER No 68 PROTECTION PANEL
P69	TRANSFORMER No 69 PROTECTION PANEL
P70	TRANSFORMER No 70 PROTECTION PANEL
P71	TRANSFORMER No 71 PROTECTION PANEL
P72	TRANSFORMER No 72 PROTECTION PANEL
P73	TRANSFORMER No 73 PROTECTION PANEL
P74	TRANSFORMER No 74 PROTECTION PANEL
P75	TRANSFORMER No 75 PROTECTION PANEL
P76	TRANSFORMER No 76 PROTECTION PANEL
P77	TRANSFORMER No 77 PROTECTION PANEL
P78	TRANSFORMER No 78 PROTECTION PANEL
P79	TRANSFORMER No 79 PROTECTION PANEL
P80	TRANSFORMER No 80 PROTECTION PANEL
P81	TRANSFORMER No 81 PROTECTION PANEL
P82	TRANSFORMER No 82 PROTECTION PANEL
P83	TRANSFORMER No 83 PROTECTION PANEL
P84	TRANSFORMER No 84 PROTECTION PANEL
P85	TRANSFORMER No 85 PROTECTION PANEL
P86	TRANSFORMER No 86 PROTECTION PANEL
P87	TRANSFORMER No 87 PROTECTION PANEL
P88	TRANSFORMER No 88 PROTECTION PANEL
P89	TRANSFORMER No 89 PROTECTION PANEL
P90	TRANSFORMER No 90 PROTECTION PANEL
P91	TRANSFORMER No 91 PROTECTION PANEL
P92	TRANSFORMER No 92 PROTECTION PANEL
P93	TRANSFORMER No 93 PROTECTION PANEL
P94	TRANSFORMER No 94 PROTECTION PANEL
P95	TRANSFORMER No 95 PROTECTION PANEL
P96	TRANSFORMER No 96 PROTECTION PANEL
P97	TRANSFORMER No 97 PROTECTION PANEL
P98	TRANSFORMER No 98 PROTECTION PANEL
P99	TRANSFORMER No 99 PROTECTION PANEL
P100	TRANSFORMER No 100 PROTECTION PANEL

## CUSTOMER OVERCURRENT PROTECTION PANEL No.2 (SEE NOTE 4)



PANEL TERMINAL RAIL LAYOUT FRONT VIEW

PANEL DOOR REAR VIEW

TAGNAME	MFG	CATNO	DESC	REF_DWG
BL_LK_TL	EUGADUP	MOULDED TYPE M6	BATTERY/TEST LINK	38841
EB	-	EARTH BAR	EARTH BAR	-
FS1	ALSTOM	RS20P Black	FUSE - 2 STUD BACK CONNECTED	-
C-DC	SCHNEIDER ELECT	MEDM P115	OVERCURRENT & EARTH FAULT RELAY	225082
X1, X5, X7	LUTLUX	3820	RAIL MOUNTED TERMINAL	19547
X5	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No 27966	-
X5	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No 43226	-

TITLE	DWG No.
RMICB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	227350SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	227350SH04
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227350SH05
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROT N PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227351SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 WIRING DIAGRAM	227351SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 CABLE CONNECTION DIAGRAM	227351SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROT N PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227352SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227352SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227352SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROT N PANEL LAYOUT AND LABEL DETAILS DIAGRAM	227353SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM	227353SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION INDICATION PANEL SCHEMATIC DRILLING AND WIRING DIAGRAM	227354SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD SUBURBAN TYPE SUBSTATION WITH 1500kVA TRANSFORMERS SERVICE BOARD GEN. ARRANGEMENT AND WIRING	227356SH01
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION SCADA PANEL WIRING AND CABLING DETAILS	227358SH01
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190

TITLE	DWG No.
RMICB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	227350SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	227350SH04
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227350SH05
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROT N PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227351SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 WIRING DIAGRAM	227351SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 CABLE CONNECTION DIAGRAM	227351SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROT N PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227352SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227352SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227352SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROT N PANEL LAYOUT AND LABEL DETAILS DIAGRAM	227353SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM	227353SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION INDICATION PANEL SCHEMATIC DRILLING AND WIRING DIAGRAM	227354SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD SUBURBAN TYPE SUBSTATION WITH 1500kVA TRANSFORMERS SERVICE BOARD GEN. ARRANGEMENT AND WIRING	227356SH01
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION SCADA PANEL WIRING AND CABLING DETAILS	227358SH01
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190

20111004  
EAS DRAWING  
OF  
AMENDMENTS



**Ausgrid**  
NETWORK STANDARD  
DESIGN AND ENGINEERING BRANCH  
570 GEORGE ST SYDNEY, NSW 2000  
P: 9272 3895  
F: 9272 6269

SCALE	AS SHOWN
DESIGNED	-
DRAWN	L.MARTINUZZI
CHECKED	W.BYRNE
APPROVED	M.BENNETT
DATE	15/06/2012
PRJ/TRK No.	-
PROJECT NUMBER	SM 6717-1-2

RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM			
DRAWING No.	227353	SHEET	2
AMD	0	SIZE	A0