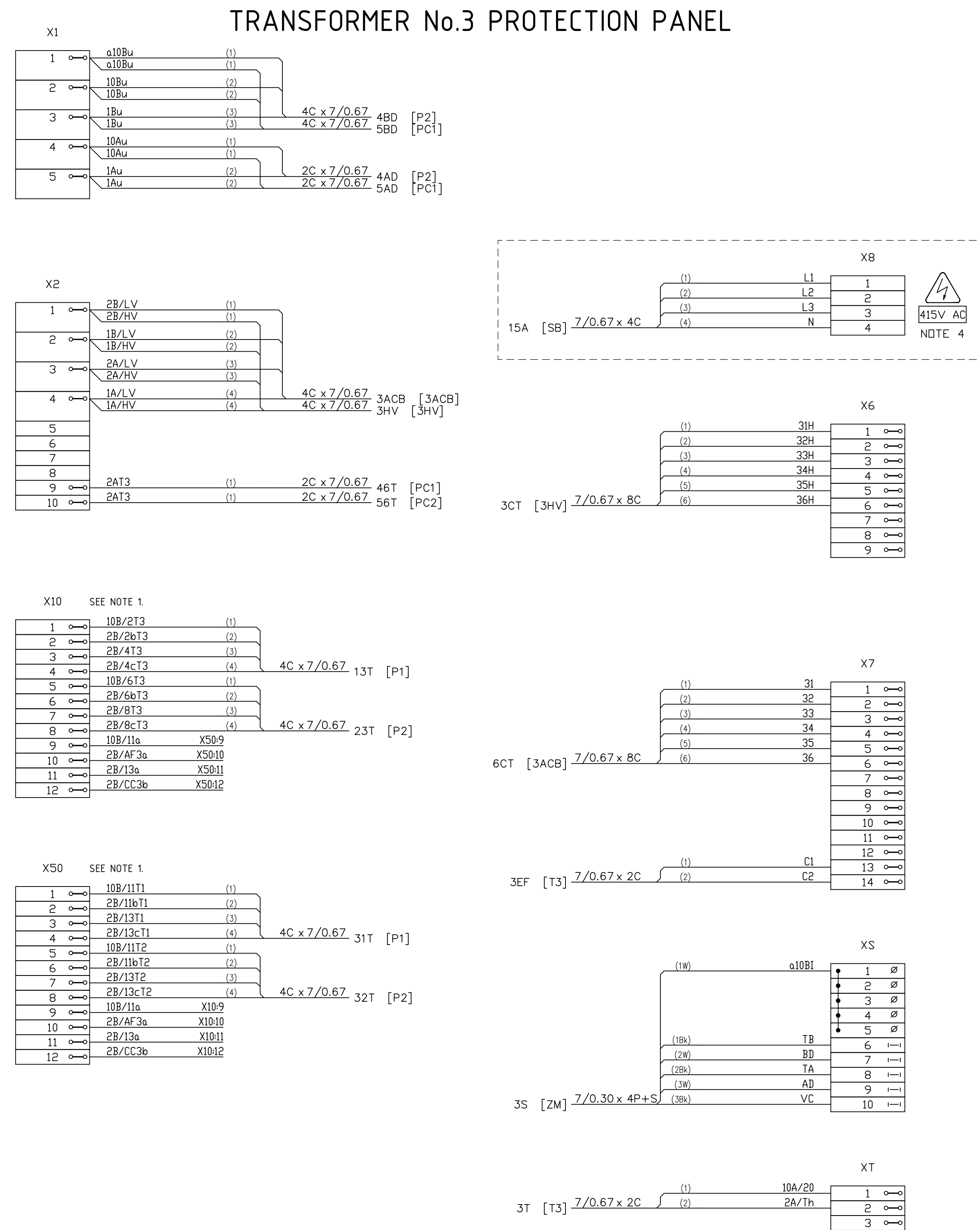
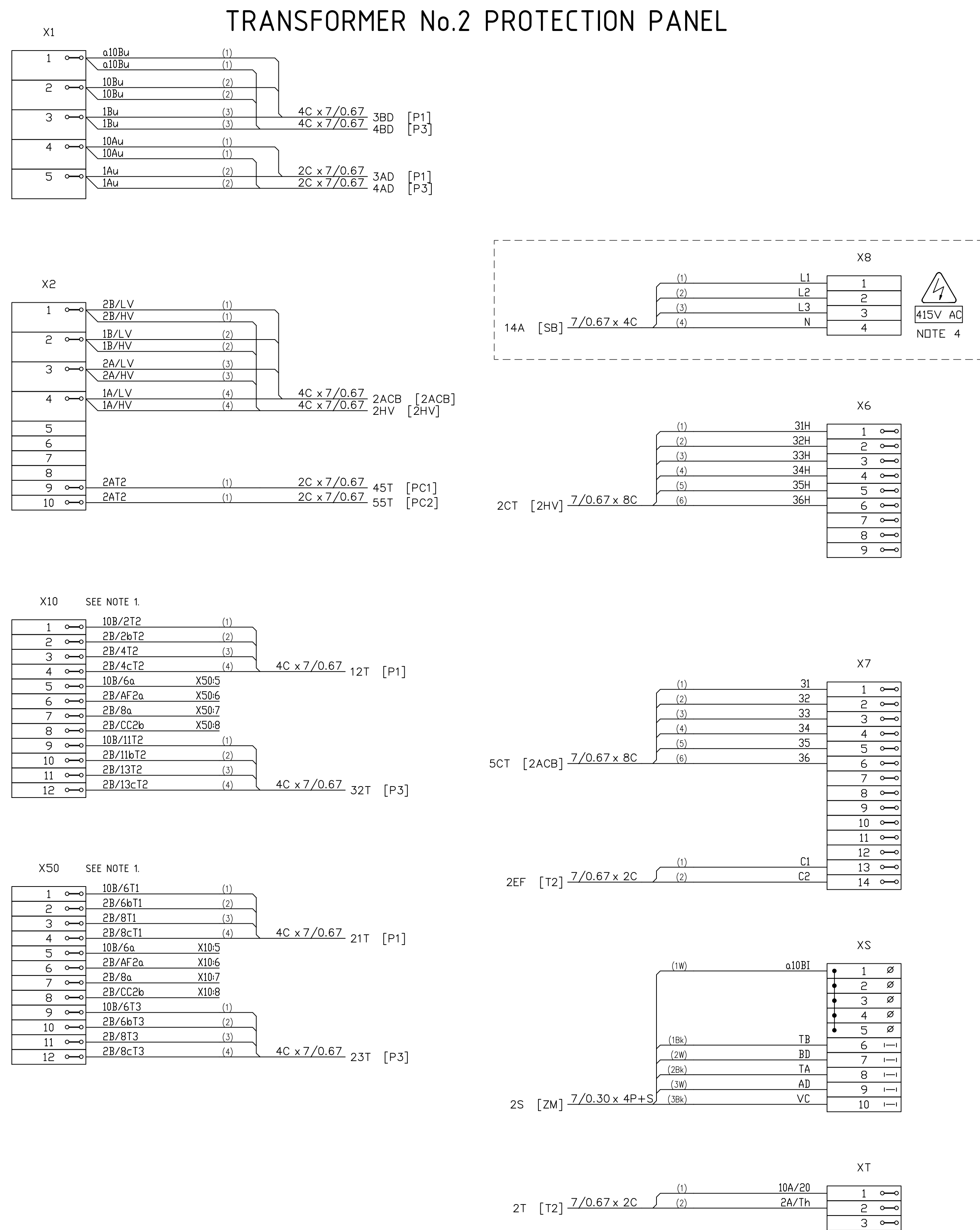
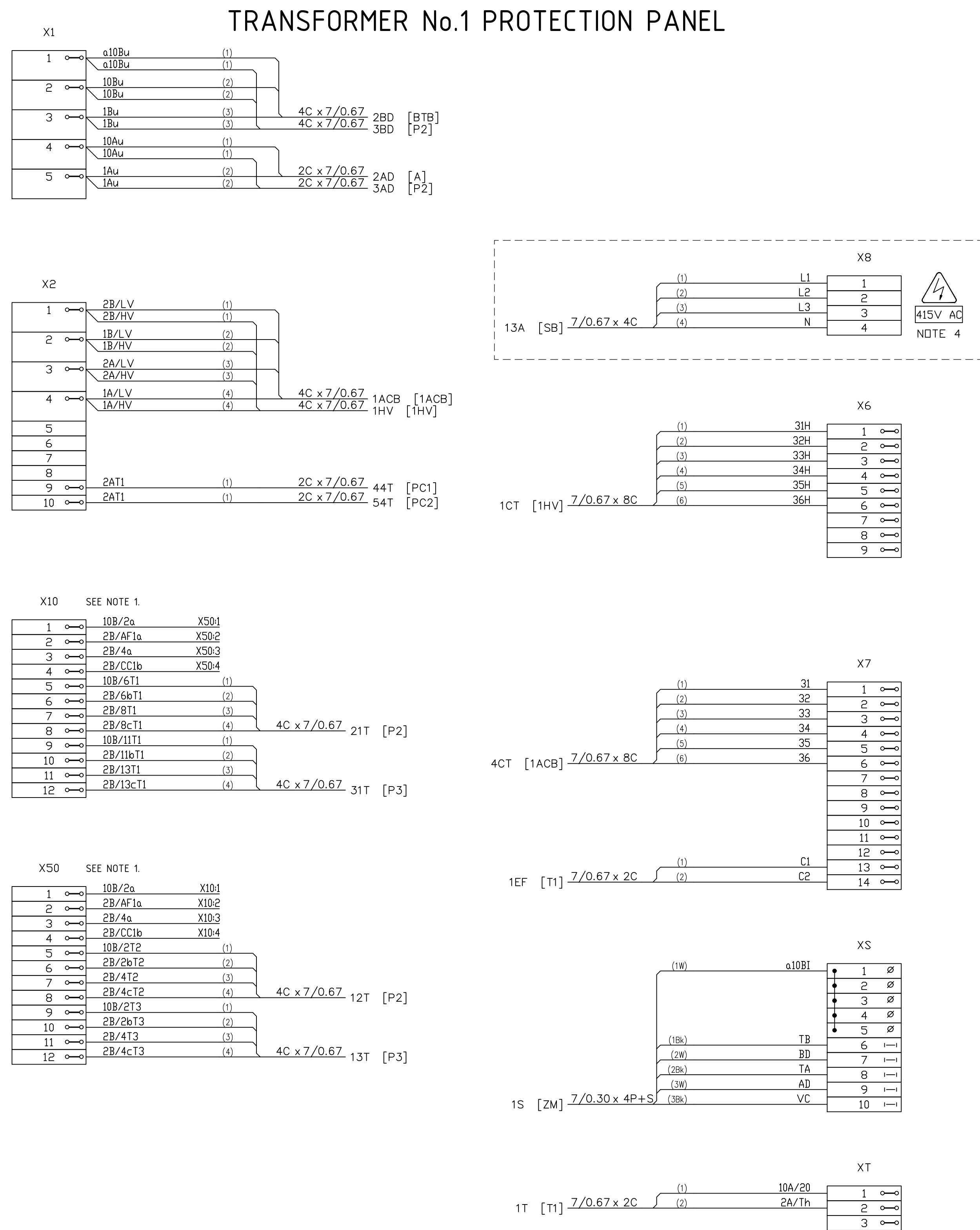




1A1B	TRANSFORMER NO.1 45KV CIRCUIT BREAKER
1H	TRANSFORMER NO.1 EARTH FAULT CT
1HV	TRANSFORMER NO.1 11KV RM CIRCUIT BREAKER
K	30V DC "A" BATTERY
B1B	"B" BATTERY TERMINATION BOX
P2	TRANSFORMER NO.2 PROTECTION PANEL
P3	TRANSFORMER NO.3 PROTECTION PANEL
OC1	CUSTOMER OVERCURRENT NO.1 PROTECTION PANEL
OC2	CUSTOMER OVERCURRENT NO.2 PROTECTION PANEL
S1	SERVICE BOARD
TB	TRANSFORMER NO.1
ZM	SCADA CABINET (ALARM & SIGNALING UNIT)
PANEL ABREVIATION TABLE	

2A2B	TRANSFORMER No.2 415V CIRCUIT BREAKER
2EF	TRANSFORMER No.2 EARTH FAULT CT
2HV	TRANSFORMER No.2 11kV KM CIRCUIT BREAKER
P1	TRANSFORMER No.1 PROTECTION PANEL
P3	TRANSFORMER No.3 PROTECTION PANEL
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
TSB	TSB BOARD
T2	TRANSFORMER No.2
ZM	SCADA CABINET (ALARM & SIGNALING UNIT)

PANEL ABBREVIATION TABLE

3ACB	TRANSFORMER NO 3 415V CIRCUIT BREAKER
3EF	TRANSFORMER NO 3 EARTH FAULT CT
3HV	TRANSFORMER NO 3 11kV RM CIRCUIT BREAKER
P1	TRANSFORMER NO 1 PROTECTION PANEL
P2	TRANSFORMER NO 2 PROTECTION PANEL
PC1	CUSTOMER OVERCURRENT NO 1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT NO 2 PROTECTION PANEL
TB	SERVICE BOARD
T3	TRANSFORMER NO 3
ZM	SCADA CABINET (ALARM & SIGNALING UNIT)
PANEL ABBREVIATION TABLE	

PANEL TERMINAL RAIL LAYOUT CABLING & WIRE JUMPERS

PANEL TERMINAL RAIL LAYOUT CABLING & WIRE JUMPERS

PANEL TERMINAL RAIL LAYOUT CABLING & WIRE JUMPERS

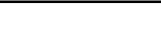
NOTES:

1. ALL CABLING AND WIRE JUMPING SHOWN IS FOR A 3 TRANSFORMER SUBSTATION WITH 2 CUSTOMER OVERCURRENT PROTECTION PANELS, ONLY REQUIRED CABLING AND WIRE JUMPING IS TO BE INSTALLED. SEE THE SUBSTATION DESIGN INFORMATION PACKAGE AND RELEVANT NETWORK STANDARDS.
2. CABLE NAMING COULD ALTER FOR THE POSSIBLE SUBSTATION CONFIGURATIONS. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE CABLING AND CABLE SCHEDULE DRAWINGS 227355Sh01 – 02.
3. ALL PANEL WIRING IS TO BE AS LISTED HERE:
 - DC WIRING IS TO BE 7/0.50, 0.6kV GRADE PVC INSULATED COLOURED GREY.
 - EARTH WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED GREEN/YELLOW (Y/G).
 - A PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED RED (R).
 - B PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED WHITE (W).
 - C PHASE CT AND AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED BLUE (B).
 - EARTH CT AND NEUTRAL AC WIRING IS TO BE 7/0.67, 0.6kV GRADE PVC INSULATED COLOURED BLACK (Bk).
4. TERMINALS, FUSES AND RELAY CONNECTIONS ARE TO BE FITTED WITH CAUTION LABELS TO WARN OF THE 415V/240 AC HAZARD. ANY EXPOSED TERMINALS ARE TO BE APPROPRIATELY COVERED.
5. 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.
6. 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	MFG	CATNO	DESC	REF_DWG	
X1, X2, X10	Ø=	UTLUX	3820	RAIL MOUNTED TERMINAL	118547
X8, X7	Ø=	UTLUX	3820	RAIL MOUNTED TERMINAL	118547
X10, X1	Ø=	PHOENIX	3820 00 00 3946281	FEED THROUGH TERMINAL BLOCK	-
X50, XT	Ø=	UTLUX	3820	RAIL MOUNTED TERMINAL	118547
X5	Ø=	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 21966	-
X5	-	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-
LEGEND					

A M E N D M E N T S						
AMD	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
1						
2	24/10/2024	NEW UPDATED BOARDER ADDED	S.M.	S.M.	M.B.	M.B.
3	10/09/2025	DRAWING BORDER UPDATED UTIL/LUX H2239 ORANGE RAIL MOUNTED TERMINALS REPLACED BY PHOENIX UT 10 G 304628T FEED-THROUGH TERMINAL BLOCK LEGENDS TABLE UPDATED.	H.O.	H.O.	M.B.	M.B.

RMCB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	DWG No.
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	2273505Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	2273505Sh02
RMCB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	2273505Sh03
RMCB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	2273505Sh05
RMCB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTEN PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227351Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 WIRING DIAGRAM	227351Sh02
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 CABLE CONNECTION DIAGRAM	227351Sh03
RMCB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTEN PANEL WITH OPTICAL AFD STYLE 2 LAYOUT AND LABEL DETAILS DIAGRAM	227352Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227352Sh02
RMCB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227352Sh03
RMCB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROTEN PANEL LAYOUT AND LABEL DETAILS DIAGRAM	227353Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM	227353Sh02
RMCB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION INDICATION PANEL SCHEMATIC DRILLING AND WIRING DIAGRAM	227354Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355Sh01
RMCB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355Sh02
RMCB 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
RMCB 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
REFERENCE DRAWINGS	

 Ausgrid 24 Campbell Street SYDNEY NSW 2000 P: 9272 3805	SCALE	AS SHOWN	RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER WALL MOUNTED PROTECTION PANEL WITH OPTICAL AFD STYLE 2 CABLING CONNECTION DIAGRAM					
	DESIGNED	-						
	DRAWN	L.MARTINUZZI						
	CHECKED	W.BYRNE						
	APPROVED	M.BENNETT						
	DATE	15/06/2012						
ISSUED FOR CONSTRUCTION	ISSUE	PROJECT NUMBER	SM 671-1-2	DRAWING No	227352	SHEET 3	AMD 3	SIZE A0