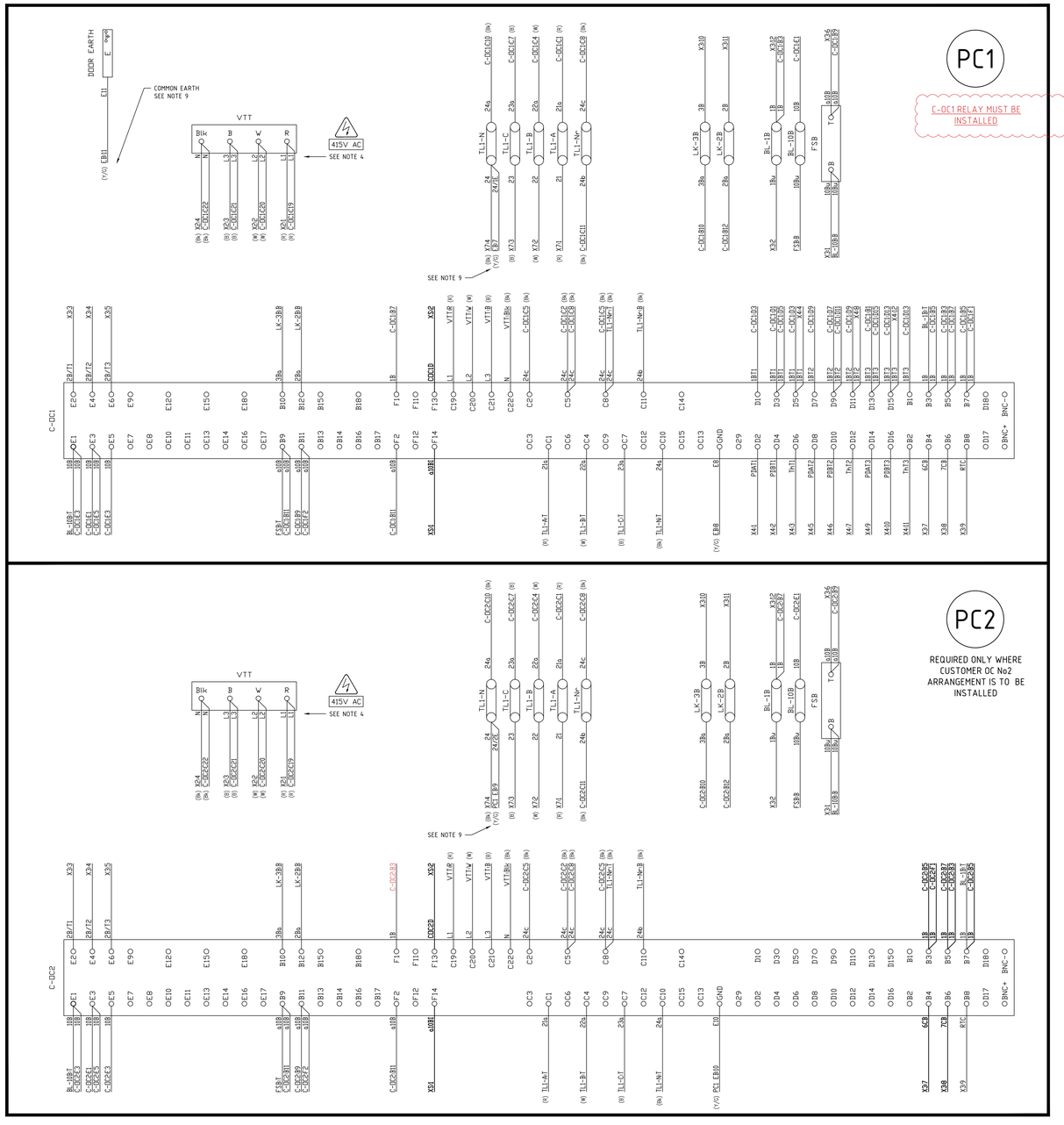
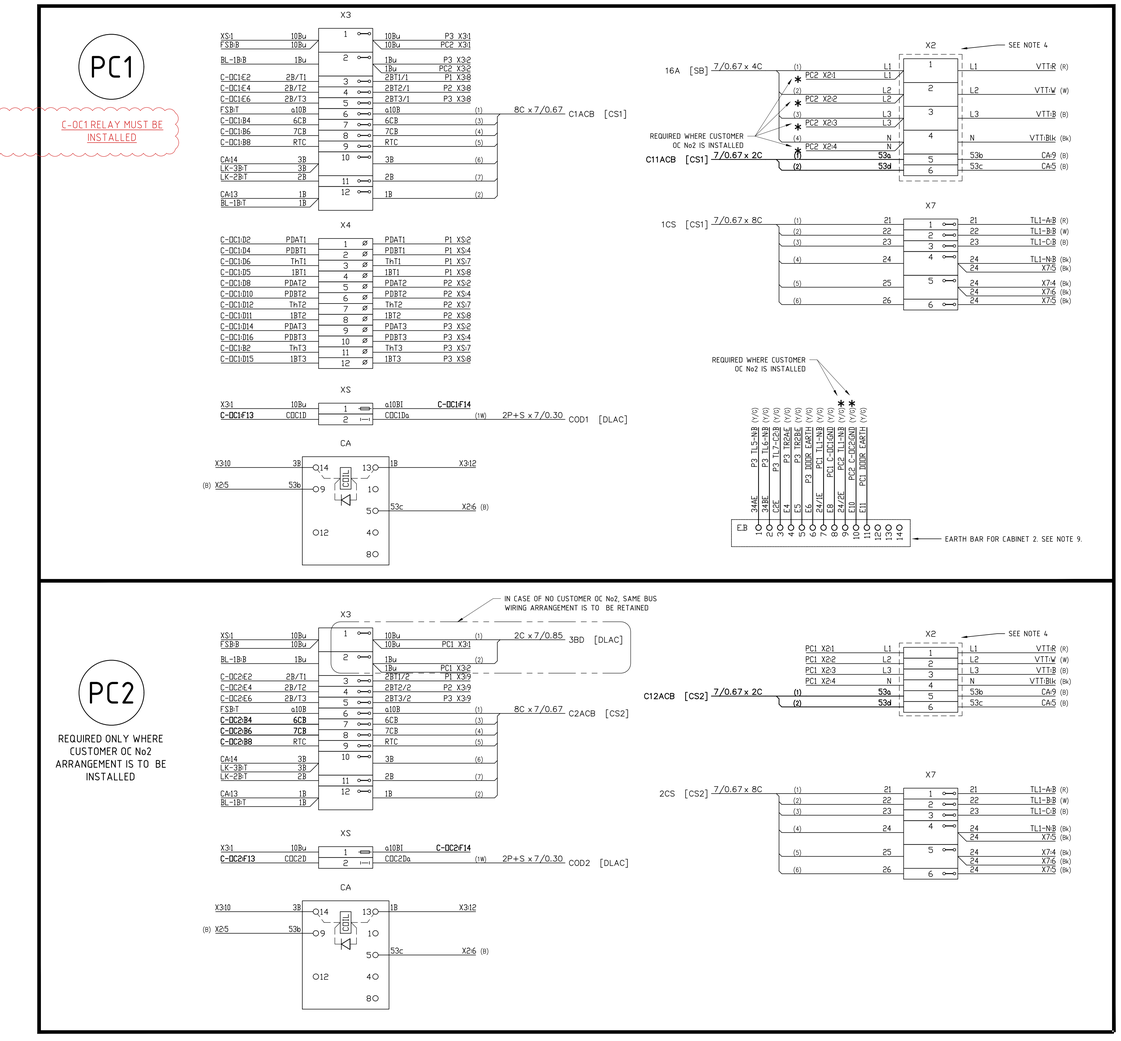
CUSTOMER OC No.1 (TOP) & No.2 (BOTTOM) PROTECTION PANEL DOOR (REAR VIEW)



CUSTOMER OC No.1 (TOP) & No.2 (BOTTOM) PROTECTION PANEL DOOR (REAR VIEW)



TAGNAME	MFG	CATNO	DESC	REF_DWG
BL, TL	EUGAGUIP	MOULDED TYPE M5	BATTERY/TEST LINK	507111
C-OC1, C-OC2	SCHNEIDER ELECT.	MICOM P142	OVERCURRENT & EARTH FAULT RELAY	224809
EB	-	EARTH BAR	CABINET EARTH BAR	-
FSB	ALSTOM	RS20P Black	FUSE - 2 STUD BACK CONNECTED	-
VTT	MULTI CONNECT (RS COMPONENTS)	SL84-G	INSULATED TEST PANEL SOCKETS 1 x RED 23.3020.22 (404-244) 1 x WHITE 23.3020.29 (404-250) 1 x BLUE 23.3020.23 (404-256) 1 x BLACK 23.3020.21 (404-200)	231226
X3, X7	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
X2	UTILUX	H2238	RAIL MOUNTED TERMINAL - ORANGE	-
X4	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 27966	-
XS	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676	-
XS	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-
LEGEND				

CS1	CUSTOMER SUPPLY No.1 PANEL
CS2	CUSTOMER SUPPLY No.2 PANEL
DLAC	DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL
P1	FIRST TRANSFORMER PROTECTION PANEL
P2	SECOND TRANSFORMER PROTECTION PANEL
P3	THIRD TRANSFORMER PROTECTION PANEL
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
SB	SERVICE BOARD

PANEL ABBREVIATION TABLE

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 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, INSULATED TEST PANEL SOCKETS 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. TEST LINKS (TL) TO BE WIRED N-C-B-A LEFT TO RIGHT WHEN VIEWED FROM THE REAR OF THE PANEL.
7. THE WIRING SHOWN IS BASED ON THE RELAYS LISTED IN THE LEGEND.
8. PANEL DOOR LAYOUT IS REPRESENTATIVE, FOR ACTUAL DOOR LAYOUT SEE DWG 227381.
9. SHOWN ARE THE WIRING CONNECTIONS TO THE EARTH BAR FOR CUSTOMER OC PROTECTION PANEL IN SECOND PROTECTION CABINET. THE EARTH BAR IS COMMON TO Tx No.3, CUSTOMER OC No.1 AND CUSTOMER No.2 PROTECTION PANELS.
10. FOR INTER-PANEL WIRING THE WIRE DESTINATIONS ARE PREFIXED WITH THE DESTINATION PANELS ABBREVIATION. FOR EXAMPLE "P3 X3:1" MEANS IT WILL TERMINATE IN THE THIRD Tx PROTECTION PANEL ON THE X3 TERMINAL RAIL, TERMINAL 1. SEE PANEL ABBREVIATION TABLE.

TITLE	DWG No.
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227350 Sh5
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD TRANSFORMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No1 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING DIAGRAM	227389 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No1 & No2 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING	227389 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL LAYOUT AND LABEL DETAILS	227388 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD 1500kVA TX'S AND VENTILATION FAN AC SERVICE BOARD LAYOUT, WIRING, & CONNECTIONS	227387 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227386 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227386 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER OC No1 & No.2) PROTECTION PANEL WIRING AND CABLE CONNECTIONS	227385 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & OAFD, TRANSFORMERS AND CUSTOMER OVERCURRENT PROTECTION FREE STANDING PANELS LABEL DETAILS	227382 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION IE TYPE LV) TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LAYOUT DETAILS	227381 Sh1
CITY DISTRIBUTION SUB WITH E TYPE LV BOARD AND OAFD, DLAC PANEL SCHEMATIC, GENERAL DC SUPPLIES INTER-PANEL WIRING, FIBRE COMMS & CABLING DIAGRAM	227380 Sh4
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OVERCURRENT DC SCHEMATIC	227380 Sh3
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, & OPTICAL ARC FLASH DETECTION TRANSFORMER DC SCHEMATIC	227380 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION AC SCHEMATIC	227380 Sh1

REFERENCE DRAWINGS

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

- 1 BORDER & TITLE BLOCK UPDATED FOR CUSTOMER OC No2 ADDITIONS — L.MARTINUZZI 03-02-2020
- DLC DLDR PANELS ADDED MISSING CABLE CONNECTIONS TO CUSTOMER OC No.1 & No.2 PANELS AS SHOWN — M.BENNETT 09-05-2019
- CHECKED — L.MARTINUZZI
- APPROVED — M.BENNETT
- 2 REF REVISION CLOUDS & NUMBERED — CONTACT FOR C-OC1 & C-OC2 RELAY DETAILS AMENDED PC2 CONNECTIONS DELETED, ALL AS SHOWN — L.MARTINUZZI 03-02-2020
- CHECKED — M.BENNETT
- APPROVED — M.BENNETT
- 1 REF REVISION CLOUDS & NUMBERED — WIRES COLOUR PRINTED, ADDED TEXT FOR C-OC1 & C-OC2 PANELS — L.MARTINUZZI 26-08-2020
- CHECKED — M.BENNETT
- APPROVED — M.BENNETT

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ISSUED FOR CONSTRUCTION

SCALE	AS SHOWN
DESIGNED	-
DRAWN	E.KAIROUZ / L.MARTINUZZI
CHECKED	L.MARTINUZZI
APPROVED	M.BENNETT
DATE	24/02/2015
TRIM REF	-
PROJECT NUMBER	-

CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OC No.1 (& No.2) PROTECTION PANEL WIRING AND CABLE CONNECTIONS

DRAWING No 227385 | SHEET 1 | AMD 3 | SIZE A0

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