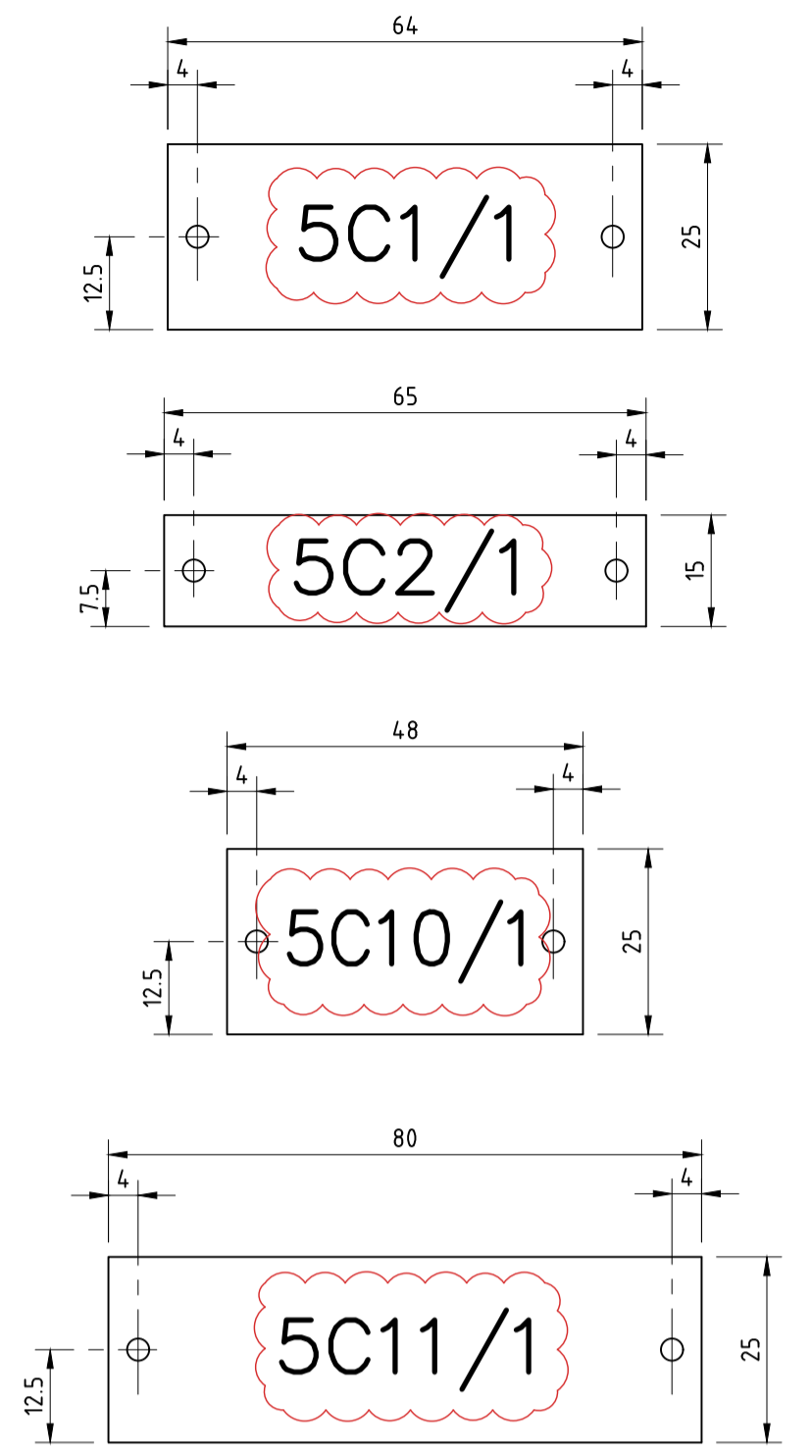


LABEL DETAILS FOR TRANSFORMER PANELS													
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF	LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
1	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	8.0 8.0	FIRST TRANSFORMER	1	29	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	FIRST TRANSFORMER ARC FLASH BATTERY LINK	3
2	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	8.0 8.0	SECOND TRANSFORMER	1	30	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	FIRST TRANSFORMER ARC FLASH TRIP LINK	3
3	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	8.0 8.0	THIRD TRANSFORMER	1	31	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	SECOND TRANSFORMER ARC FLASH BATTERY LINK	3
5	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	DIFFERENTIAL RELAY DIFF	3	32	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	SECOND TRANSFORMER ARC FLASH TRIP LINK	3
6	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	LV OVERCURRENT & EARTH FAULT 'A' RELAY LV OC&EF-A	3	33	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	THIRD TRANSFORMER ARC FLASH BATTERY LINK	3
7	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	MULTITRIP RELAY TR1A	3	34	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	THIRD TRANSFORMER ARC FLASH TRIP LINK	3
8	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	MULTITRIP RELAY TR2A	3	35	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	ARC FLASH BYPASS BATTERY LINK NORMALLY OPEN	3
9	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	PILOT INTERLOCK RELAY PIR	3	36	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	FIRST TRANSFORMER CURRENT CHECK LINK	3
10	C23	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	A B C N 415V AC VOLTAGE TEST TERMINALS	3	37	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	FIRST TRANSFORMER CURRENT CHECK TRIP LINK	3
11	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	Tx & ARC FLASH RELAY TXP-B	3	38	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	SECOND TRANSFORMER CURRENT CHECK LINK	3
12	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	MULTITRIP RELAY TR1B	3	39	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	SECOND TRANSFORMER CURRENT CHECK TRIP LINK	3
13	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	MULTITRIP RELAY TR2B	3	40	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	THIRD TRANSFORMER CURRENT CHECK LINK	3
14	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	TRANSFORMER THERMAL TRIP INDICATOR TI-1	3	41	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	THIRD TRANSFORMER CURRENT CHECK TRIP LINK	3
14a	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	TRANSFORMER BUCHHOLZ TRIP INDICATOR TI-1	3	42	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER HV 'A' (TR1A) TRIP LINK	3
15	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER HV 'B' (TXP-B) TRIP LINK	3	43	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER LV 'A' (TR2A) TRIP LINK	3
15a	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	TRANSFORMER BUCHHOLZ TRIP LINK	3	44	C4	TRAFFOLYTE RED/WHITE/RED	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	FSA 10A 1A 48V & 30V 'A' MASTER BATT FUSE & LINKS	3
16	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER LV 'B' (TXP-B) TRIP LINK	3	45	C4	TRAFFOLYTE RED/WHITE/RED	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	FSB 10B 1B 48V 'B' MASTER BATT FUSE & LINKS	3
17	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	TRANSFORMER THERMAL TRIP LINK	3	46	5C10/1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C OVERCURRENT & EARTH FAULT RELAY CT TEST LINKS	3
18	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	CUSTOMER OC No.1 TRIP LINK	3	47	5C10/1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C OVERCURRENT & EARTH FAULT RELAY DELTA TEST LINKS	3
19	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	CUSTOMER OC No.2 TRIP LINK	3	48	5C1/1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C N TRANSFORMER DIFFERENTIAL RELAY TEST LINKS	3
20	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	CO-GENERATION OPEN Tx ACB TRIP LINK	3	49	5C1/1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	A B C N TRANSFORMER PROTECTION H.V. CT TEST LINKS	3
21	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	PILOT INTERLOCK OPEN Tx ACB TRIP LINK	3	50	5C10/1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	Nr C1 C2 EARTH FAULT CT TEST LINKS	3
22	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	Tx ACB CLOSE RELAY LINK	3							
23	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	11kV FEEDER IN SERVICE CHECK LINK	3							
24	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	Tx PROTECTION OPERATED LINK	3							
25	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	Tx PROTECTION OPERATED CHECK LINK	3							
26	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	Tx ACB STATUS LINK	3							
27	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	Tx ACB STATUS CHECK LINK	3							
28	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	Tx ACB READY TO CLOSE LINK	3							

ONLY WHERE REQUIRED SEE NOTE 4

LABEL DETAILS FOR CUSTOMER OC No.1 PANEL													
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF	LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
4	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	7.0 7.0	CUSTOMER OVERCURRENT No.1	1	10	C23	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	A B C N 415V AC VOLTAGE TEST TERMINALS	1
45	C4	TRAFFOLYTE RED/WHITE/RED	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	FSB 10B 1B 48V 'B' MASTER BATT FUSES & LINKS	1	51	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	CUSTOMER ACB SCADA CONTROL CLOSE LINK	1
52	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	CUSTOMER ACB SCADA CONTROL OPEN LINK	1	53	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP TO FIRST TRANSFORMER TRIP LINK ON 1st TX PANEL	1
54	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP TO SECOND TRANSFORMER TRIP LINK ON 2nd TX PANEL	1	55	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP TO THIRD TRANSFORMER TRIP LINK ON 3rd TX PANEL	1
56	5C11/1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	Nr A B C N CUSTOMER OVERCURRENT AND EARTH FAULT CT TEST LINKS	1	57	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	CUSTOMER OVERCURRENT & EARTH FAULT RELAY C-OC1	1



**SPECIAL LABEL DETAILS**  
DIMENSIONS ARE IN MILLIMETRES - ALL HOLES Ø3mm  
SEE NOTE 3  
SCALE 1:1

LABEL DETAILS FOR CUSTOMER OC No.2 PANEL													
* ONLY WHERE REQUIRED - SEE NOTE 4													
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF	LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
10	C23	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	A B C N 415V AC VOLTAGE TEST TERMINALS	1	51	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	CUSTOMER ACB SCADA CONTROL CLOSE LINK	1
52	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	CUSTOMER ACB SCADA CONTROL OPEN LINK	1	56	5C11/1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	Nr A B C N CUSTOMER OVERCURRENT AND EARTH FAULT CT TEST LINKS	1
58	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	7.0 7.0	CUSTOMER OVERCURRENT No.2	1	59	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP TO FIRST TRANSFORMER TRIP LINK ON 1st TX PANEL	1
60	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRIP TO SECOND TRANSFORMER TRIP LINK ON 2nd TX PANEL	1	61	5C2/1	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRIP TO THIRD TRANSFORMER TRIP LINK ON 3rd TX PANEL	1
62	C7	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2 LINE 3	2.5 2.5 4.0	CUSTOMER OVERCURRENT & EARTH FAULT RELAY C-OC2	1							

- NOTES:**
- THIS DRAWING SHOWS LABELS REQUIRED FOR FREE STANDING TRANSFORMER & CUSTOMER OVERCURRENT PROTECTION PANELS LAYOUTS FOR CITY DISTRIBUTION SUBSTATIONS WITH OAFD.
  - CUSTOMER OVERCURRENT PROTECTION PANEL IS A DUAL TYPE AS SHOWN ON DWG 227381 Sh1, WITH CUSTOMER No2 OC PROTECTION ONLY INSTALLED WHERE REQUIRED. SEE THE SUBSTATION DESIGN INFORMATION PACKAGE.
  - SPECIAL LABELS (5C1/1, 5C2/1, 5C10/1 & 5C11/1) ARE SIZED TO FIT 5mm EUGAQUIP MOULDED TYPE M5 LINKS, SEE DRAWING 507111. FOR ALL OTHER LABEL CONSTRUCTION, DRILLING AND ENGRAVING DETAILS REFER TO DRAWINGS 50996 & 64825.
  - LABELS 14 & 17 ARE ONLY REQUIRED WHERE DRY TYPE TRANSFORMERS ARE INSTALLED.  
- LABELS 14a & 15a ARE ONLY REQUIRED FOR OLDER OIL TYPE TRANSFORMERS WITH BUCHHOLZ RELAYS.  
- CUSTOMER No2 LABELS ARE ONLY REQUIRED WHERE THERE IS CUSTOMER OVERCURRENT No2 PROTECTION INSTALLED.

TITLE	DWG No.
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION AC SCHEMATIC	227380 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION DC SCHEMATIC	227380 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OVERCURRENT DC SCHEMATIC	227380 Sh3
CITY DISTRIBUTION SUB WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION DLAC PANEL SCHEMATIC, GENERAL DC SUPPLIES INTER-PANEL WIRING, CABLING DIAGRAM	227380 Sh4
CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION (E TYPE LV) TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LAYOUT DETAILS	227381 Sh1

**REFERENCE DRAWINGS**

<p>570 George Street SYDNEY NSW 2000 P: 9272 3805</p>	SCALE	AS SHOWN	<b>CITY DISTRIBUTION SUBSTATIONS (E TYPE LV) WITH OPTICAL ARC FLASH DETECTION TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LABEL DETAILS</b>
	DESIGNED	-	
	DRAWN	E.KAIROUZ	
	CHECKED	L.MARTINUZZI	
	APPROVED	M.BENNETT	
DATE	24/02/2015	PROJECT NUMBER: OPEX-6923-1 DRAWING No: 227382 SHEET 1 AMD 1 SIZE A1	
TRIM REF	-		

CAD DRAWING DO NOT MANUALLY AMEND  
AMENDMENTS  
1. BORDER & TITLE BLOCK UPDATED. REF. REVISION CLOUDS, IN RED WHEN CHANGES TO PREVIOUS VERSION.  
2. CHECKED BY: L.MARTINUZZI  
3. 17-09-2018  
4. M.BENNETT  
5. APPROVED: