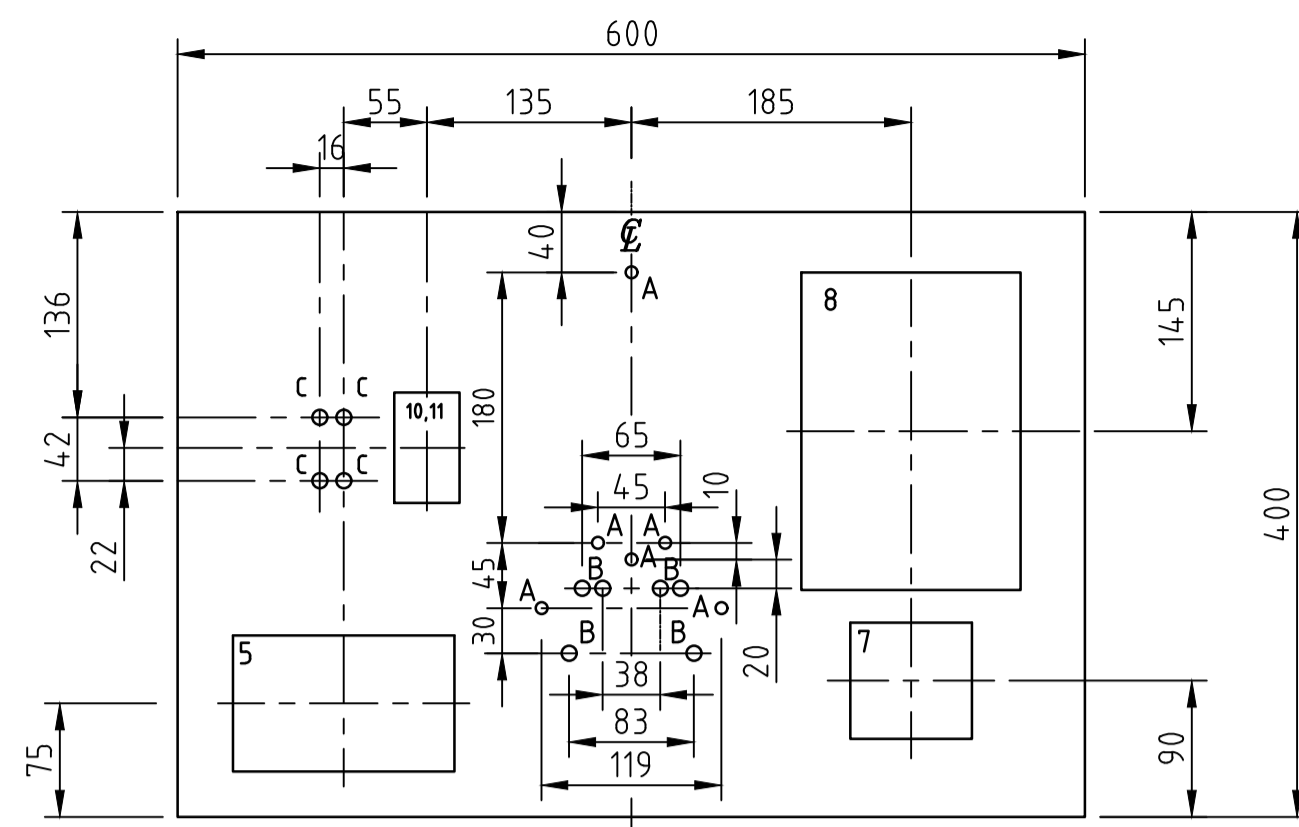
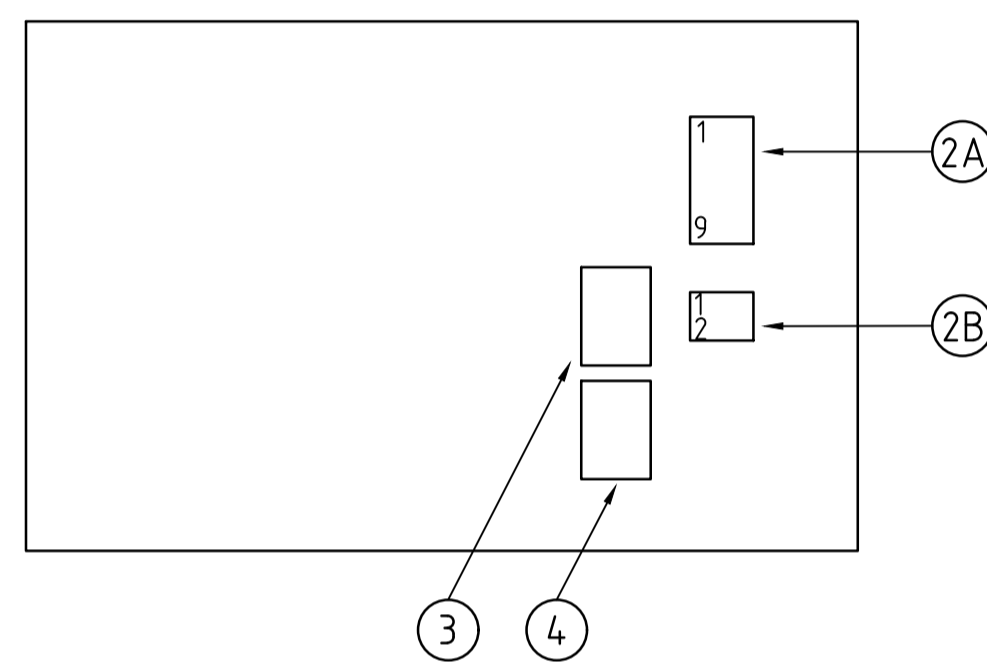


GENERAL ARRANGEMENT
SCALE 1:5

DOOR (FRONT VIEW)

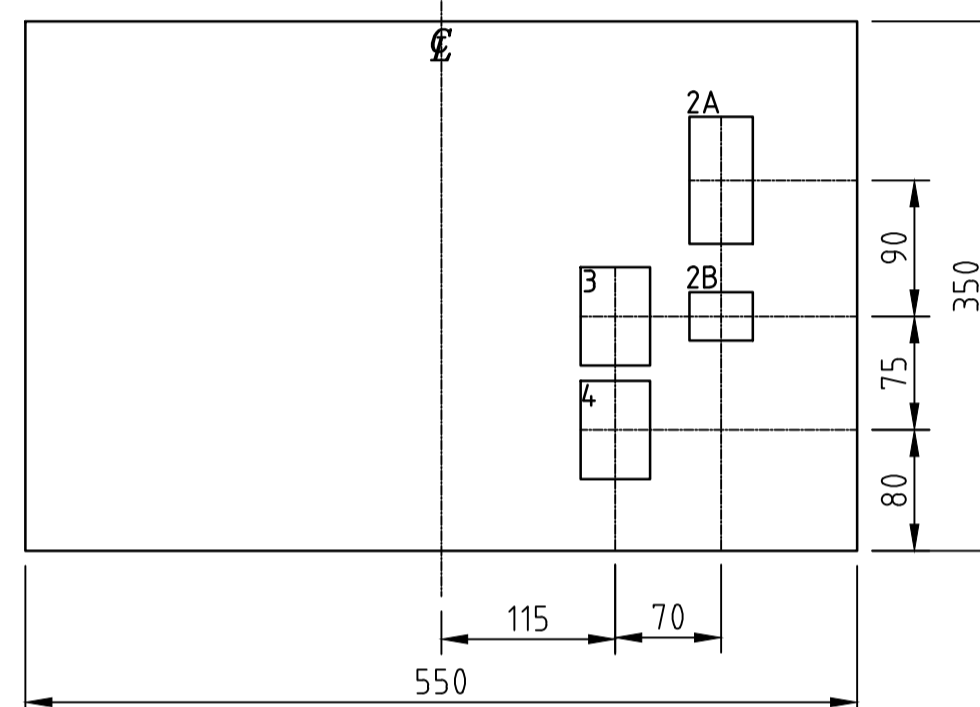


DRILLING DETAILS
SCALE 1:5
SEE NOTE 4 & 5

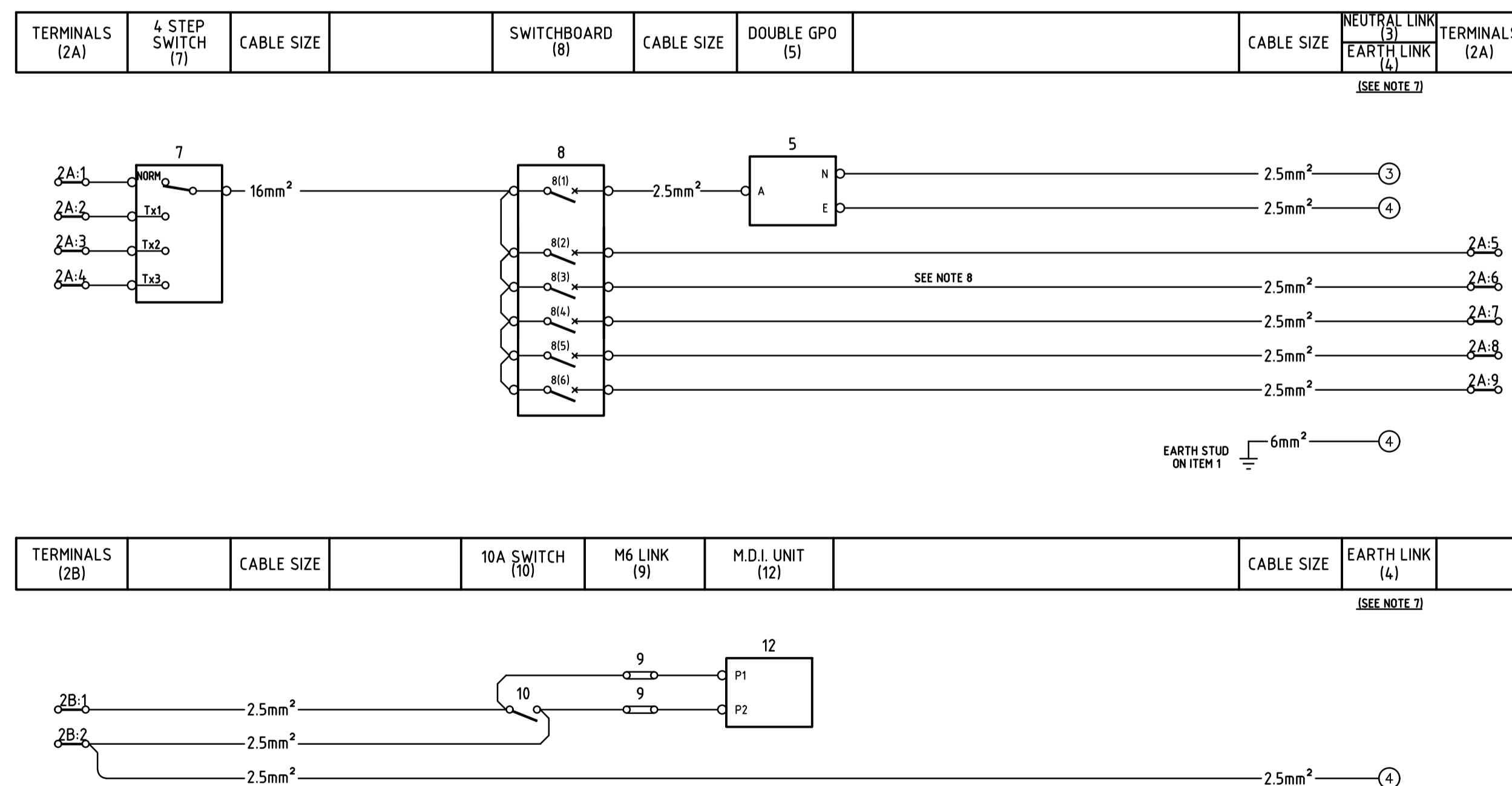


GENERAL ARRANGEMENT
SCALE 1:5

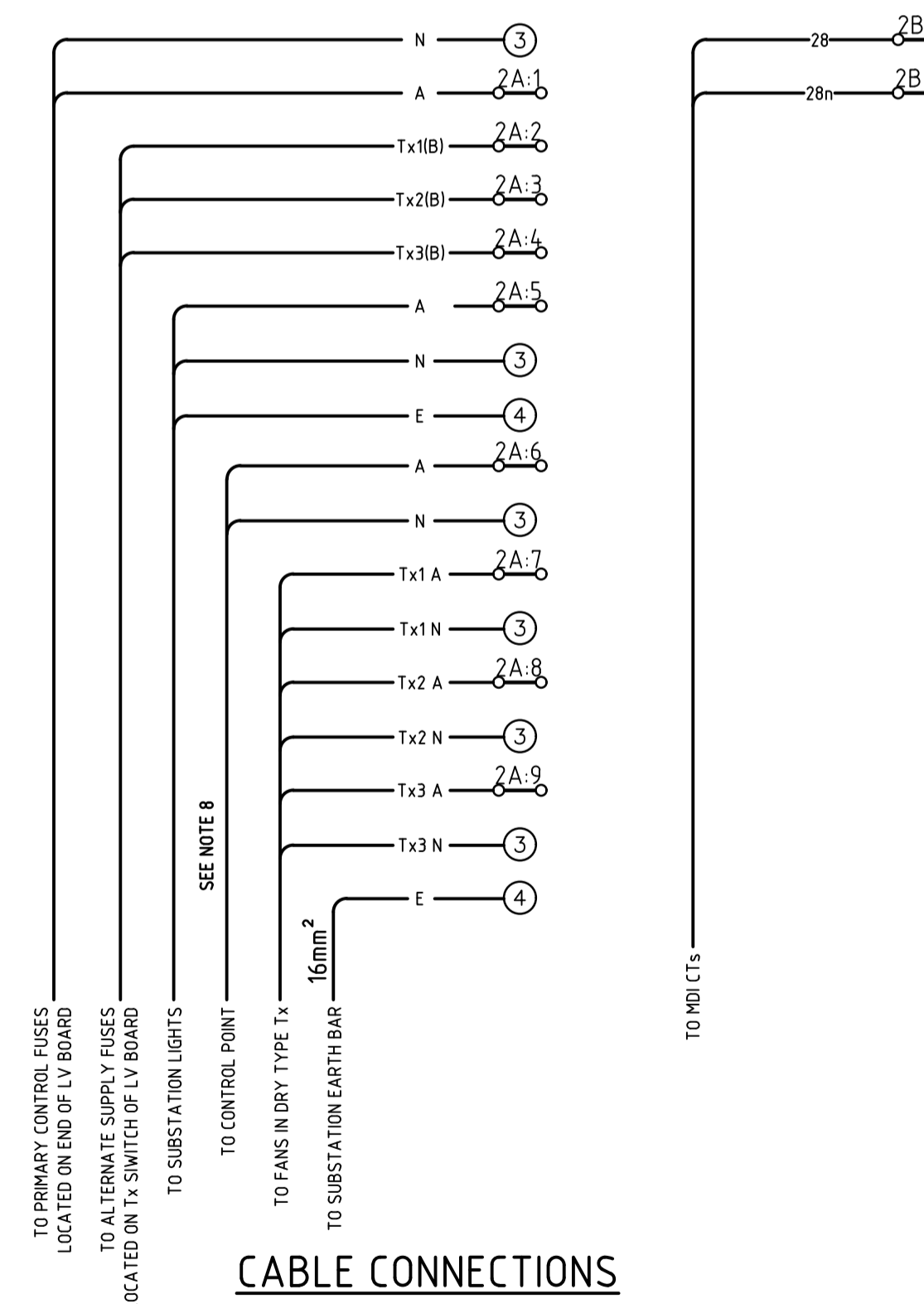
INTERIOR PANEL (FRONT VIEW)



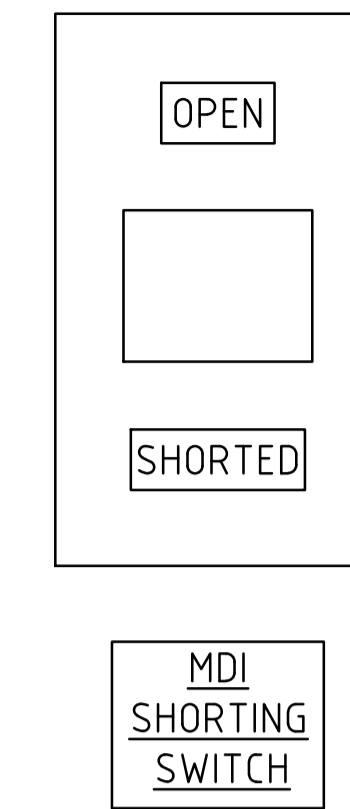
DRILLING DETAILS
SCALE 1:5
SEE NOTE 4 & 5



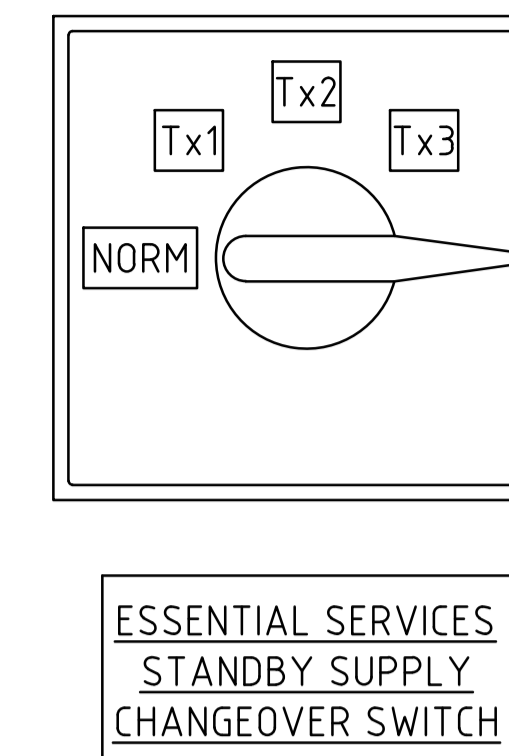
WIRING DIAGRAM



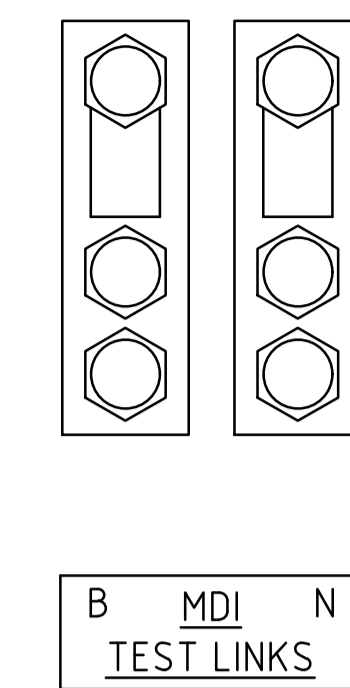
CABLE CONNECTIONS



DETAIL 1
MDI SHORTING SWITCH
REFER NOTE 10



DETAIL 2
CHANGEOVER SWITCH
REFER NOTE 10



DETAIL 3
MDI TEST LINKS
REFER NOTE 10

NOTES

- THIS SERVICE BOARD IS DESIGNED FOR 1000kVA OR LESS TYPE SUBSTATION SUBSTATIONS.
- ALL MATERIALS SHOWN CAN BE SUBSTITUTED AS LONG AS THE SUBSTITUTE COMPONENT PROVIDES SIMILAR OR BETTER PERFORMANCE THAN THE ONE SHOWN. DETAILS PROVING THE PERFORMANCE OF OTHER PRODUCTS MUST BE SUBMITTED FOR ACCEPTANCE, IN ACCORDANCE WITH THE REQUIREMENTS OF NETWORK STANDARD NS181, BEFORE USE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT NETWORK STANDARDS.
- DRILLING DETAILS FOR THE M.D.I. UNIT AND MOULDED LINKS ONLY ARE SHOWN. FOR ALL OTHER COMPONENTS REFER TO THE MANUFACTURE FOR DETAILS.
- DRILLING DETAILS, DIAMETER OF HOLES.
A - 8mm
B - 10mm
C - 13mm
- COMPRESSION TYPE CABLE LUGS ARE TO BE USED FOR CABLE TERMINATIONS ONTO ITEMS 2A, 2B AND 9.
- THE EARTH AND NEUTRAL LINK CONNECTIONS DESIGNATED BY ③ & ④ ARE TO BE INDIVIDUALLY CONNECTED TO THEIR LINK.
- CIRCUIT 8(3) CONTROL POINT IS NOT REQUIRED ON ALL INSTALLATIONS.
- CABLE TO BE OF ADEQUATE SIZE TO PREVENT VOLTAGE DROP, REFER TO AS 3000 FOR CABLE SIZE.
- DETAILS 1, 2 & 3 SHOW WORDING AND POSITION OF SELF ADHESIVE LABELS. LABELS ARE TO BE BLACK LETTERING ON WHITE BACKGROUND.

ITEM No	DESCRIPTION	REMARKS	No. OFF
12	M.D.I. UNIT	LOGISTICS SERVICES SC 169920	1
11	MOUNTING BLOCK	HPM TYPE 141	1
10	10A SINGLE POLE SWITCH	HPM TYPE A770/1	1
9	M5 MOULDED LINK	AUSGRID STOCK CODE H28494	2
8(4)(5)(6)	16A 1Ø 8kA MINIATURE C/B (Tx FAN)	CLIPSAL TYPE 4CB116	3
8(2)(3)	16A 1Ø 8kA MINIATURE C/B (LIGHTS)	CLIPSAL TYPE 4CB116	2
8(1)	20A 1Ø 8kA MINIATURE C/B (1Ø POWER)	CLIPSAL TYPE 4CB120	1
8	6 MODULE SWITCHBOARD	CLIPSAL TYPE 4C6FD	1
7B	TERMINAL COVERS	KRAUS & NAIMER TYPE S1 M160/B03	1
7A	ADJUSTABLE SHAFT	KRAUS & NAIMER TYPE S1 M004E/000B070	1
7	4 STEP CHANGEOVER SWITCH	KRAUS & NAIMER TYPE C32 A231 603 E	1
6	MOUNTING BLOCK	HPM TYPE 140	1
5	10A DOUBLE GPO	HPM TYPE 777	1
4	EARTH LINK	CLIPSAL TYPE L6	1
3	NEUTRAL LINK	CLIPSAL TYPE L7	1
2B	TERMINAL STRIP 2 (2B: 1-2)	UTILUX H3820 30A	2
2A	TERMINAL STRIP 1 (2A: 1-9)	UTILUX H3820 30A	9
1	WALL MOUNTED BOX	EMPCO W4625	1

MATERIAL LIST (SEE NOTE 2)

CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS

1. NEUTRAL LINK TO EARTH LINK CONNECTION DELETED. EARTH STUD CONNECTION DESIGNATED. MAIN NEUTRAL CONNECTION MOVED FROM 2A TERMINAL STRIP TO NEUTRAL LINK.
CONNECTIONS TO NEUTRAL & EARTH LINKS ADDED TO CABLE CONNECTIONS ALLOCATION OF 2A TERMINALS ALTERED.
ITEMS 2A & 2B NO OFF ADJUSTED. ITEMS 2A & 2B WERE NOMINATED AS X ON WIRING & CABLE CONNECTIONS. SIZE OF NEUTRAL & EARTH LINKS INCREASED.
CABLE CONNECTIONS CLARIFIED.
CABLE CONNECTIONS CLARIFIED. REPAIRING ITEMS 8(1) & 8(5) WERE DELETED. REPAIRING ITEMS 8(1) & 8(5) BEING ADDED.
DRILLING DIMENSIONS CLARIFIED.

PWJ 26/9/07
CHECKED: IMR
APPROVED: MT
PN 208/09/07

2. NEW AUSGRID BORDER & LOGO ADDED.
24/09/2013
R.LAALAA
T.LAMPARD
APPROVED:

3. BORDER & TITLE BLOCK UPDATED.
M.D.I. LINKS WERE M6.
25/09/2024
L.MARTINOZZI
H.BENNETT
CHECKED:
APPROVED:

Ausgrid
24 Campbell Street
SYDNEY NSW 2000
P: 9272 3805

ISSUED FOR CONSTRUCTION

SCALE	AS SHOWN
DESIGNED	-
DRAWN	J.HAYDEN
CHECKED	P.JARVIS
APPROVED	P.JARVIS
DATE	10/04/2007
TRIM REF	-
PROJECT NUMBER	ES 103-59-1-2

SUBURBAN SUBSTATIONS
WITH TRANSFORMERS LESS THAN 1500kVA
SERVICE BOARD
GENERAL ARRANGEMENT & WIRING DIAGRAM

DRAWING No **169392** SHEET 1 AMD 3 SIZE A1