

A

B

C

D

E

F

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H

A

B

C

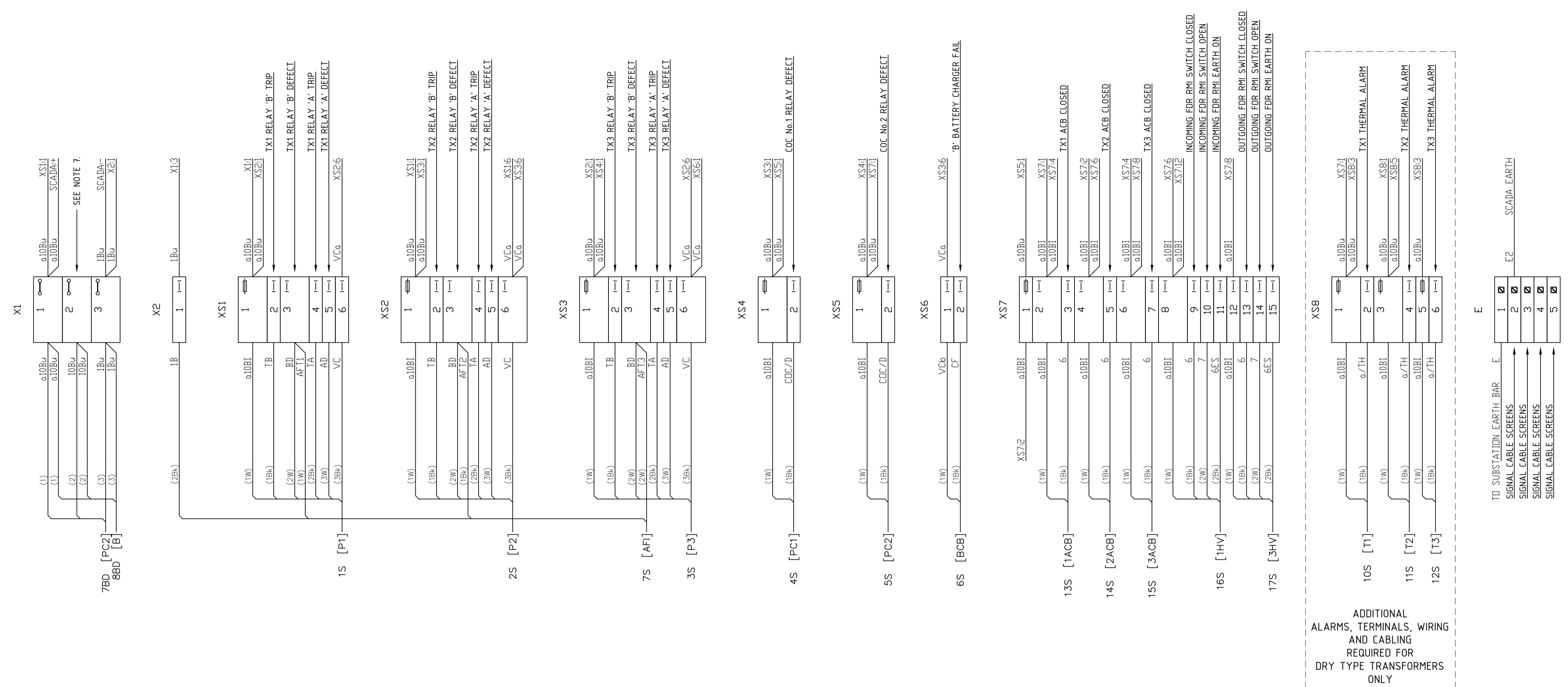
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NOTES:

- THIS DRAWING SHOWS THE SCADA PANEL TERMINAL LAYOUT AND CABLING WHICH IS TO BE USED IN CONJUNCTION WITH RMICB CHAMBER TYPE SUBSTATIONS WITH ARC FLASH DETECTION INSTALLED. IT SHOULD BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
- ADDITIONAL TERMINALS, WIRING AND CABLING TO MARSHAL SIGNALS BETWEEN VARIOUS CONTROL AND PROTECTION PANELS LOCATED INSIDE THE SUBSTATION ARE TO BE MOUNTED INSIDE THE SCADA PANEL (ZM) AS SHOWN ON THIS DRAWING. POWER AND SIGNAL TERMINATIONS ON THE ACTUAL SCADA CABLE UNIT ARE NOT SHOWN. THE TERMINAL CONFIGURATION SHOWN IS PREFERRED HOWEVER THIS WILL BE DETERMINED BY SCADA TYPE INSTALLED IN THE DISTRIBUTION SUBSTATION, SEE THE RELEVANT MANUFACTURER'S DRAWINGS FOR DETAILS.
- WIRING FOR THESE ADDITIONAL CONNECTIONS ARE TO BE 7/0.40, 0.6kV V75 GRADE WITH PVC INSULATION. ALL INSULATION IS TO BE GREY COLOURED EXCEPT FOR EARTH WIRES WHICH ARE TO BE GREEN/YELLOW.
- 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.
- THE CABLING ON THIS DRAWING AND CABLE SCHEDULE (SEE DWGS 227355Sh01 & 227355Sh02) IS FOR A 3 TRANSFORMER SUBSTATION WITH 2 CUSTOMER SUPPLY PANELS. SEE DRAWING 178227 FOR ACCEPTABLE SUBSTATION CONFIGURATIONS. FOR VARIATIONS OF SUBSTATION CONFIGURATION, DELETE ANY EQUIPMENT NOT REQUIRED.
- CABLE NAMING TO FOLLOW CABLE SCHEDULE.
- THE 10Bu IS THE 30V 'B' DC PROTECTION +VE SUPPLY, NOT TO BE USED FOR OTHER PURPOSES.
- ALARM AND SIGNAL CABLE SCREENS TO BE EARTH AT SCADA CABINET ONLY.

Panel	Description
AFI	ARC FLASH DETECTION INDICATION PANEL
B	48V - 30V TAPPED DC 'B' BATTERY
BCB	BATTERY CHARGER B
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
P1	TRANSFORMER No.1 PROTECTION PANEL
P2	TRANSFORMER No.2 PROTECTION PANEL
P3	TRANSFORMER No.3 PROTECTION PANEL
T1	TRANSFORMER No.1 CONTROL PANEL (DRY TYPE)
T2	TRANSFORMER No.2 CONTROL PANEL (DRY TYPE)
T3	TRANSFORMER No.3 CONTROL PANEL (DRY TYPE)
1ACB	TRANSFORMER No.1 ACB PANEL
2ACB	TRANSFORMER No.2 ACB PANEL
3ACB	TRANSFORMER No.3 ACB PANEL
1HV	INCOMING FEEDER RMI SWITCH
3HV	OUTGOING FEEDER RMI SWITCH

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 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 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 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 AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355Sh01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355Sh02
ABB 1500KVA DRY TYPE TRANSFORMER CONTROL WIRING CONTRACT EA7670/05	206257Sh01

TAGNAME	MFG	CATNO	DESC	REF DWG
X1	UTILUX	3820	RAIL MOUNTED TERMINAL	11854.7
X2	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.4.1226	-
XS1 - 8	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676	-
XS1 - 8	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.4.1226	-
E	WEIDMULLER	EK 2.5N	RAIL MOUNTED EARTH TERM CAT No.47436	-

CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS

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APPROVED	M.BENNETT
DATE	16/06/2012
PRJTRK No.	
PROJECT NUMBER	SM 6717-1-2

**RMICB SUBSTATIONS
WITH E TYPE LV BOARD
AND OPTICAL ARC FLASH DETECTION
SCADA PANEL WIRING AND
CABLING DETAILS**

DRAWING No **227358** SHEET 1 AMD 0 SIZE A1