

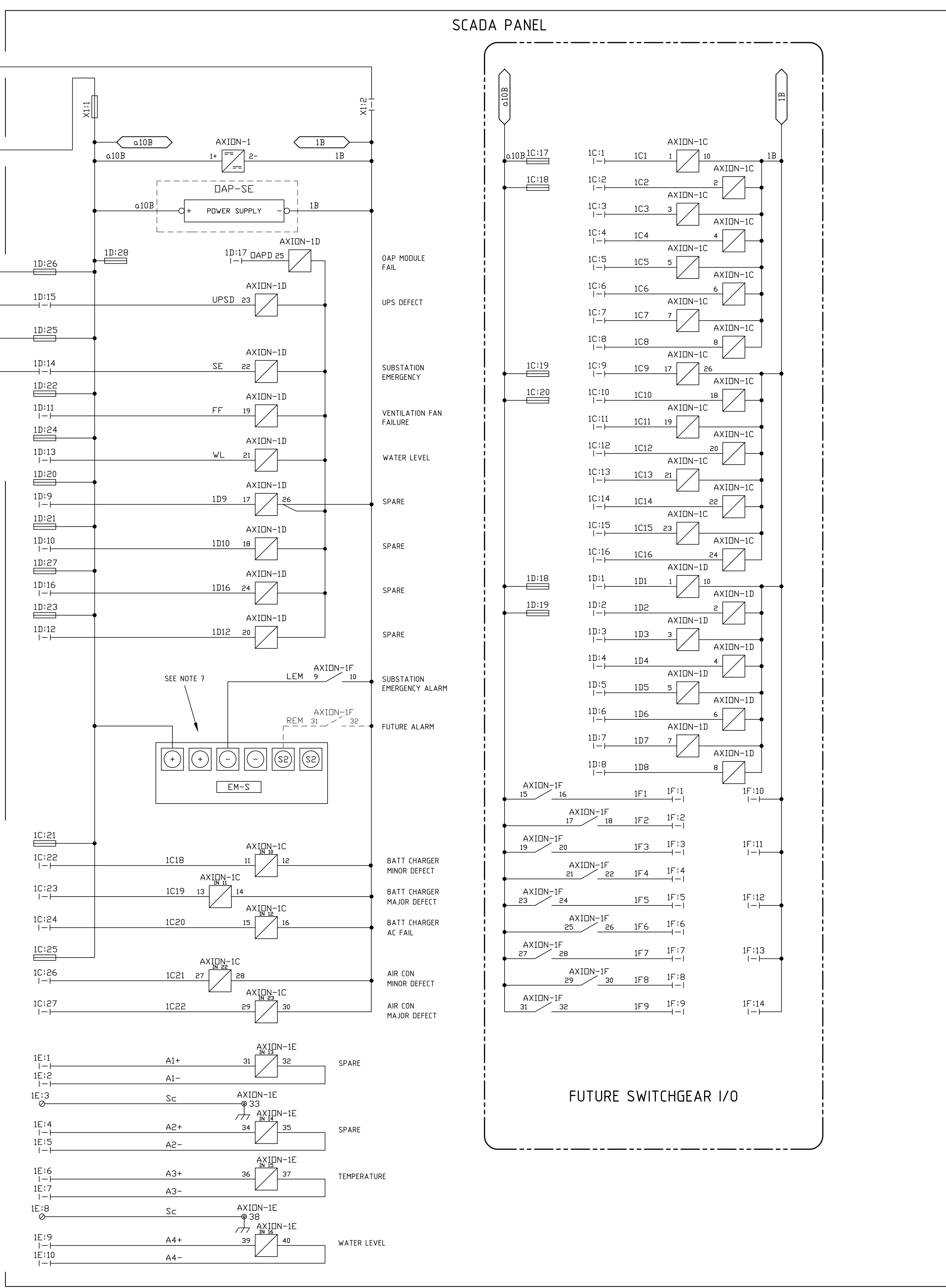
- NOTES:**
- THIS DRAWING SHOWS THE DC SUPPLIES, INTER-PANEL WIRING, COMMS CONNECTIONS AND THE SCADA PANEL SCHEMATIC TO BE USED FOR CITY CONTROL POINTS. IT SHOULD BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
 - THE CABLING ON THIS DRAWING AND CABLE SCHEDULE (SEE DWGS 227386 SH3 & SH4) IS FOR A CONTROL POINT FOR HIGH LEVEL SUBSTATIONS. VENTILATION, FAN FAILURE, WATER LEVEL AND ANALOGUES TO BE INSTALLED WHERE REQUIRED (REFER TO DESIGN PACKAGE).
 - EQUIPMENT SHOWN THUS MAY NOT BE IN SERVICE IN ALL CONTROL POINTS.
 - CABLE NAMING TO FOLLOW CABLE SCHEDULE.
 - THE SCADA PANEL INCORPORATES THE SEL-2240 AXION RTAC AND AUSGRID COMMUNICATIONS NETWORK EQUIPMENT.
 - THE SCADA PANEL IS TO BE LOCATED IN THE CONTROL POINT. A 240V AC - 48V DC UPS IS TO BE USED TO SUPPLY THE DLAC PANEL. REFER DRAWING 24-7770.
 - FOR THE ELECTRONIC SOUNDER LISTED IN THE LEGEND:
 - THE VOLUME CONTROL IS TO BE SET AT MAXIMUM (DIAL FULLY TURNED CLOCKWISE)
 - THE DIP SWITCH CONFIGURATION MUST BE: DOWN, UP, UP, DOWN, UP (READ LEFT TO RIGHT).
 - THE DAP_XE MODULE IS FOR REMOTE END CONNECTION TO AUSGRID'S CSACS NETWORK. THIS MODULE IS TO BE PROVIDED WITH THE SCADA PANEL AND IS TO BE INSTALLED BY AUSGRID AT THE CSACS NODE.

TAGNAME	MANUFACTURER	CATALOGUE NUMBER	DESCRIPTION
IS	CLIPSAL	WS226D	WALL MOUNTED 2 POLE ISOLATING SWITCH
ENCLOSURE	RITTAL	1073.500	WALL MOUNTED ENCLOSURE AE 760mm x 760mm x 300mm
EM-S	ASSERTA	AS/M/S/9-60/G	ELECTRONIC SOUNDER, GREY, 9 - 60VDC
AXION	SCHWEITZER	SEL-2241HCN4F, CU ETH	1 x WITH 10/100BASE-T ETHERNET PORTS - S/C. 185154
	SCHWEITZER	SEL-2242R1X0	1 x BACKPLANE - S/C. 185291
	SCHWEITZER	SEL-224321X0	1 x POWER COUPLER - S/C. 185290 (SLOT B)
	SCHWEITZER	SEL-2244222X0	2 x DI CARD - S/C. 185293 (SLOTS C&D)
	SCHWEITZER	SEL-22452121X0	1 x AI CARD - S/C. 185295 (SLOT E)
DAP (DISTRIBUTION SUB END)	AVARA	DAP-SE-EFL-SA	OPTICAL ACCESS POINT - SUBSCRIBER END AUSGRID STOCK CODE: 187275
DAP (COMMS NODE END)	AVARA	DAP-XE-VoIP	OPTICAL ACCESS POINT - COMMS NODE END AUSGRID STOCK CODE: 187274. SEE NOTE 8
IE	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 27966
X1, IC, ID	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676
X1, IC, ID, IE, IF	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No. 41226

UPS	240V AC - 48V DC UPS
SB	240V LV SERVICE BOARD
SE1	SUBSTATION EMERGENCY PUSH BUTTON 1
SE2	SUBSTATION EMERGENCY PUSH BUTTON 2

TITLE	DWG No.
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAP/D DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL LAYOUT AND LABEL DETAILS	227388 SH2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAP/D 1500kVA TX'S AND VENTILATION FAN AC SERVICE BOARD LAYOUT, WIRING, & CONNECTIONS	227387 SH1
CITY CONTROL POINT CABLING DIAGRAM	227386 SH3
CITY CONTROL POINT CABLE & INTER-PANEL WIRING SCHEDULE	227386 SH4
CITY CONTROL POINT, SCADA PANEL SCHEMATIC, GENERAL DC SUPPLIES INTER-PANEL WIRING, FIBRE COMMS & CABLING DIAGRAM	227380 SH5

REFERENCE DRAWINGS				
AMD	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY
4	29/04/2021	DAP MODULE UPDATED	M.BENNETT	M.BENNETT
5	16/06/2022	RTAC PART NUMBER UPDATED	M.B	M.B
6	14/01/2025	DAP-XE MODULE ADDED TO LEGEND. DAP STOCK CODES ADDED. NOTE 8 ADDED.	M.B.	M.B.



SCADA PANEL

SCALE	NTS
DESIGNED	M.BENNETT
DRAWN	M.BENNETT
CHECKED	L.MARTINUZZI
APPROVED	M.BENNETT
DATE	20/05/2020
TRIM REF	-
PROJECT NUMBER	SJ-00313

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CITY CONTROL POINT SCADA PANEL SCHEMATIC, GENERAL DC SUPPLIES, INTER-PANEL WIRING, COMMS & CABLING DIAGRAM

ISSUED FOR CONSTRUCTION

DRAWING No **227380** SHEET 5 AMD 6 SIZE B1