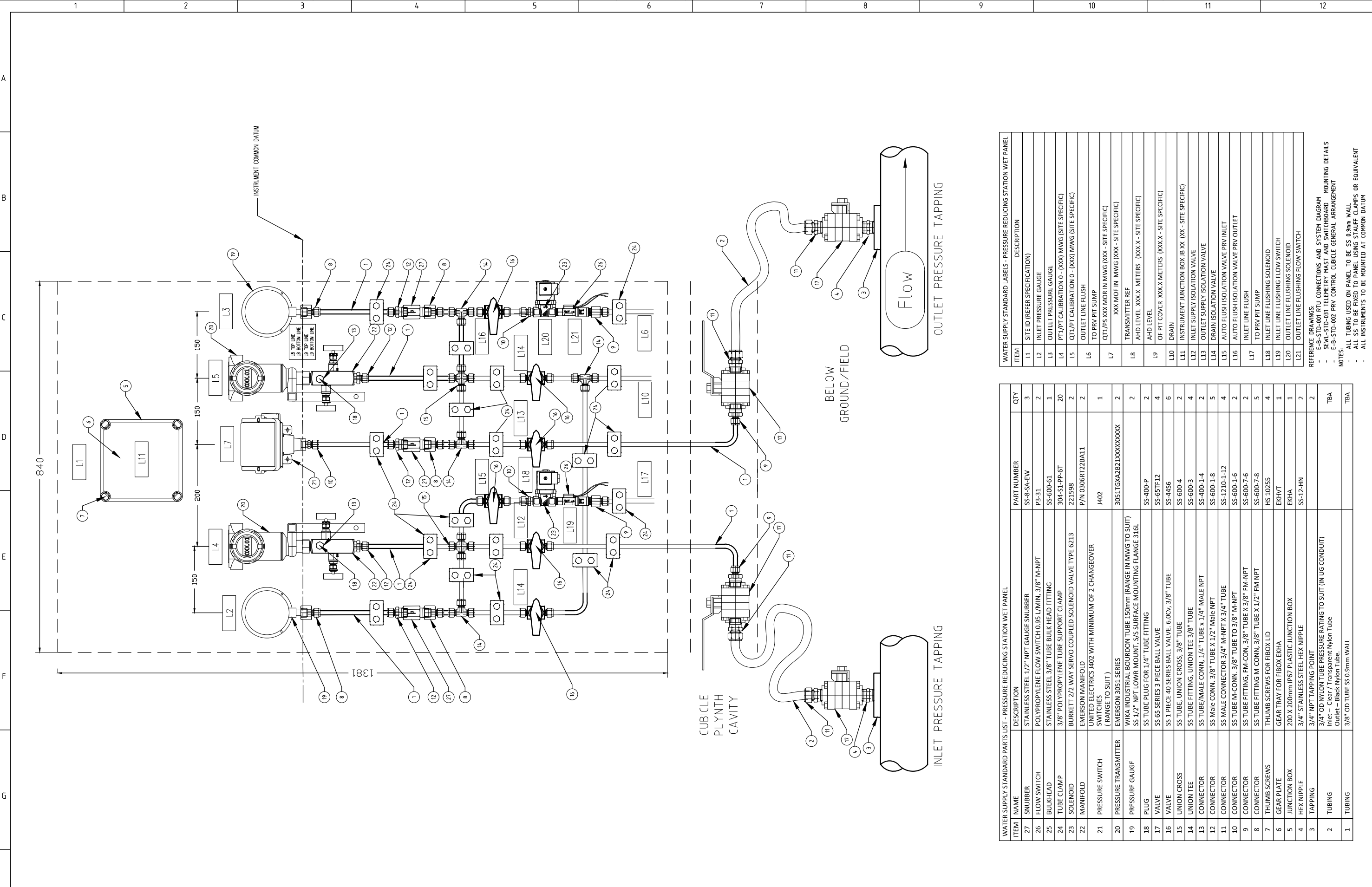


CO-ORDINATION CHECK	INITIALS	DATE
DRAWING NUMBER		
NUMERAL		

THE ORIGINAL DRAWING WAS HAND SIGNED BY THE PERSON WHOSE NAME OR INITIALS APPEAR PRINTED AND MARKED THIS IN THE SIGNATURE BLOCKS.



ITEM	DESCRIPTION
L1	WATER SUPPLY STANDARD LABELS - PRESSURE REDUCING STATION WET PANEL
L2	INLET PRESSURE GAUGE
L3	OUTLET PRESSURE GAUGE
L4	PTI/PT CALIBRATION 0 - (XXX) MWG (SITE SPECIFIC)
L5	PTI/PT CALIBRATION 0 - (XXX) MWG (SITE SPECIFIC)
L6	OUTLET LINE FLUSH
L7	TO PRV PIT PUMP
L8	XXX MOF IN MWG (XXX - SITE SPECIFIC)
L9	AHD LEVEL XXX.X METERS (XXX.X - SITE SPECIFIC)
L10	OF PIT COVER XXX.X METERS (XXX.X - SITE SPECIFIC)
L11	INSTRUMENT JUNCTION BOX XX (XX - SITE SPECIFIC)
L12	INLET SUPPLY ISOLATION VALVE
L13	OUTLET SUPPLY ISOLATION VALVE
L14	DRAIN ISOLATION VALVE
L15	AUTO FLUSH ISOLATION VALVE PRV INLET
L16	AUTO FLUSH ISOLATION VALVE PRV OUTLET
L17	INLET LINE FLUSH
L18	INLET LINE FLUSHING SOLENOID
L19	INLET LINE FLUSHING FLOW SWITCH
L20	OUTLET LINE FLUSHING SOLENOID
L21	OUTLET LINE FLUSHING FLOW SWITCH

ITEM	NAME	DESCRIPTION	PART NUMBER	QTY
27	SNUBBER	STAINLESS STEEL 1/2" NPT GAUGE SNUBBER	SS-8-SA-EW	3
26	FLOW SWITCH	POLYPROPYLENE FLOW SWITCH 0.95 L/MIN, 3/8" M-NPT	FS-31	2
25	BULK HEAD	STAINLESS STEEL 3/8" TUBE BULK HEAD FITTING	SS-600-61	1
24	TUBE CLAMP	3/8" POLYPROPYLENE TUBE SUPPORT CLAMP	304-S1-PP-6T	20
23	SOLENOID	BURKETT 2/2 WAY SERVO COUPLED SOLENOID VALVE TYPE 6213	221598	2
22	MANIFOLD	EMERSON MANIFOLD	P/N 0306RT2BA11	2
21	PRESSURE SWITCH	UNITED ELECTRICS J402 WITH MINIMUM OF 2 CHANGEOVER (RANGE TO SUIT)	J402	1
20	PRESSURE TRANSMITTER	EMERSON 3051 SERIES	3051TGXA2B21XXXXXXX	2
19	PRESSURE GAUGE	WIKA INDUSTRIAL BOURDON TUBE 150mm (RANGE IN MWG TO SUIT) SS 1/2" NPT LOWR MOUNT, S/S SURFACE MOUNTING FLANGE 316L		2
18	PLUG	SS TUBE PLUG FOR 1/4" TUBE FITTING	SS-400-P	2
17	VALVE	SS 65 SERIES 3 PIECE BALL VALVE	SS-65TF12	4
16	VALVE	SS 1 PIECE 40 SERIES BALL VALVE, 6.0CV, 3/8" TUBE	SS-4456	6
15	UNION CROSS	SS TUBE, UNION CROSS, 3/8" TUBE	SS-600-4	2
14	UNION TEE	SS TUBE FITTING, UNION TEE 3/8" TUBE	SS-600-3	4
13	CONNECTOR	SS TUBE/MALE CONN, 1/4" TUBE x 1/4" MALE NPT	SS-400-1-4	2
12	CONNECTOR	SS MALE CONN, 3/8" TUBE x 1/2" Male NPT	SS-600-1-8	5
11	CONNECTOR	SS TUBE M-CONN, 3/8" TUBE TO 3/8" M-NPT	SS-1210-1-12	4
10	CONNECTOR	SS TUBE FITTING, FM-CONN, 3/8" TUBE x 3/8" FM-NPT	SS-600-1-6	2
9	CONNECTOR	SS TUBE FITTING, FM-CONN, 3/8" TUBE x 3/8" FM NPT	SS-600-7-6	2
8	CONNECTOR	SS TUBE FITTING, FM-CONN, 3/8" TUBE x 1/2" FM NPT	SS-600-7-8	5
7	THUMB SCREWS	THUMB SCREWS FOR FIBOX LID	HS 10255	4
6	GEAR PLATE	GEAR TRAY FOR FIBOX EKHA	EKHVT	1
5	JUNCTION BOX	200 x 200mm IP67 PLASTIC JUNCTION BOX	EKHA	1
4	HEX NIPPLE	3/4" STAINLESS STEEL HEX NIPPLE	SS-12-HN	2
3	TAPPING	3/4" NPT TAPPING POINT		2
2	TUBING	3/4" OD NYLON TUBE PRESSURE RATING TO SUIT (IN UG CONDUIT) Inlet - Clear / Transparent Nylon Tube Outlet - Black Nylon Tube.		TBA
1	TUBING	3/8" OD TUBE SS 0.9mm WALL		TBA

REFERENCE DRAWINGS:  
 - E-B-STD-001 RTU CONNECTIONS AND SYSTEM DIAGRAM  
 - SEML-STD-031 TELEMETRY MAST AND SWITCHBOARD MOUNTING DETAILS  
 - E-B-STD-002 PRV CONTROL CUBICLE GENERAL ARRANGEMENT  
 NOTES:  
 - ALL TUBING USED ON PANEL TO BE SS 0.9mm WALL  
 - ALL SS TO BE FIXED TO PANEL USING STAUFF CLAMPS OR EQUIVALENT  
 - ALL INSTRUMENTS TO BE MOUNTED AT COMMON DATUM

REV	ZONE	DESCRIPTION	DATE	APP'D
J		GAUGE SNUBBERS ADDED	9/21	S.B.
I		PRESSURE GAUGE & PRESSURE SWITCH REVISED	07/21	M.L.
H		ISSUED FOR CONSTRUCTION	02/21	

**PID Controls Pty Ltd**  
 Instrumentation & Electrical  
 ABN: 97601 132 316 ACN: 60101320316  
 E: stuart@pidcontrols.com.au

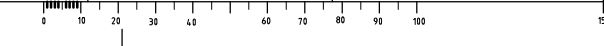
PID Controls Pty Ltd  
 ABN: 97601 132 316  
 ACN: 60101320316  
 PO Box 3196  
 Mornington, 3931  
 P: 0457 580 477  
 F: (03) 5975 9872

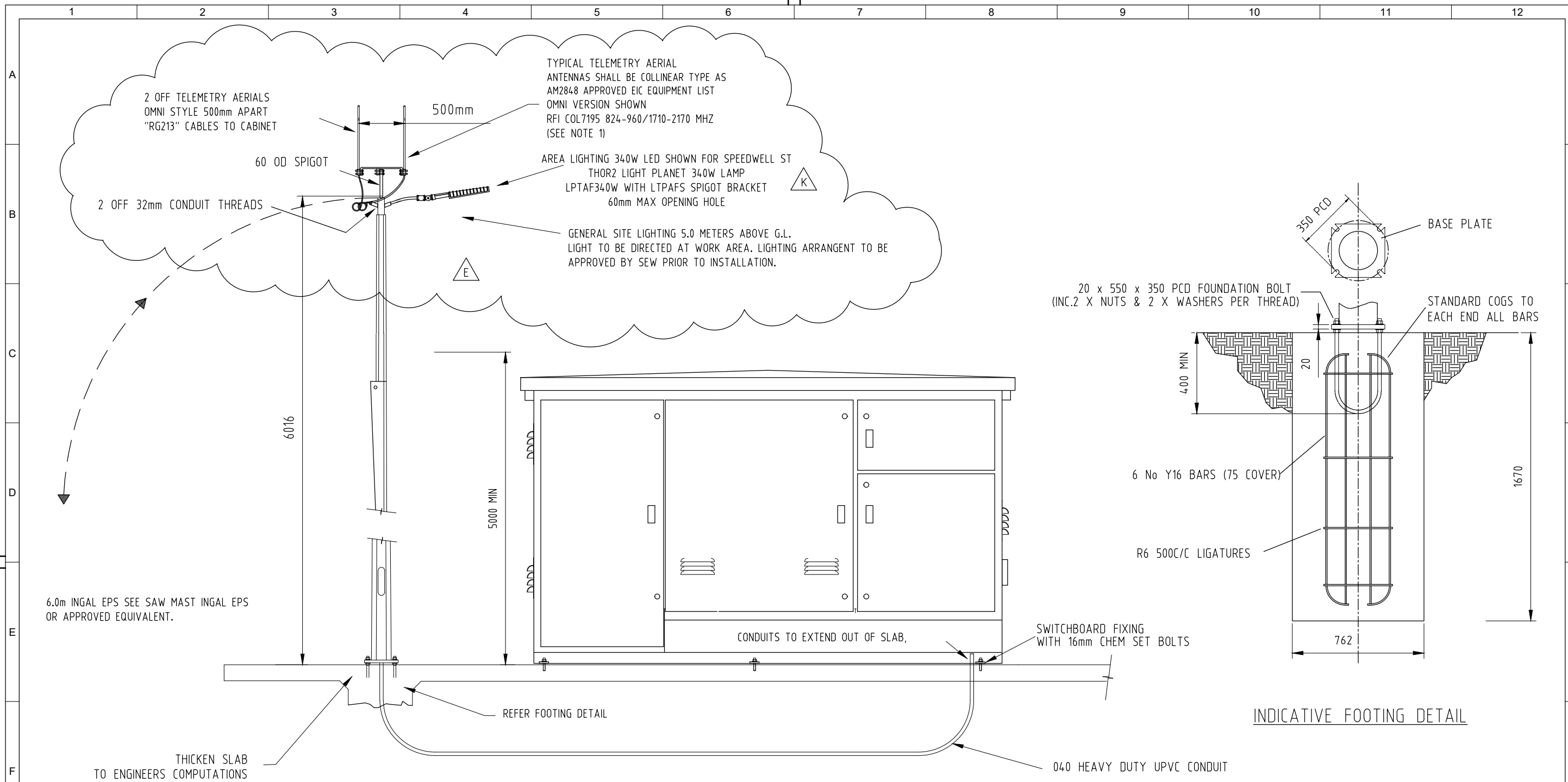
DESIGNED STUART BENNETT	DRAWN	PROJECT MGR.
DESIGN CHECK	DRAFT CHECK	GENERAL FILE No
APPROVED JAYSON STREET	DATE 02/21	



**PRESSURE REDUCING STATION**  
**WET PANEL INSTRUMENTATION**  
**GENERAL ARRANGEMENT**

DO NOT SCALE	
SCALE: NTS	
DRAWING NUMBER	E-PRV-STD-005
SHEET OF	J
REV	





FRONT ELEVATION

INDICATIVE FOOTING DETAIL

-NOTES-

1. MAST DESIGN TO COMPLY WITH AS1170 AND 1798.
2. MAST WELDS TO COMPLY WITH AS1554.
3. MAST GALVANISING TO COMPLY WITH AS4680.
4. AERIAL CONNECTION - "N" TYPE COAXIAL END CONNECTION.  
CONNECTION TO BE WRAPPED WITH SELF AMALGAMATING TAPE.
5. FOOTING DETAIL BASED ON TERRAIN CAT2 TO AS1170.2 AND AN  
ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 50kPa PER METRE  
DEPTH. FOOTING SIZES WILL VARY WITH SOIL CONDITIONS, WIND LOADING  
AND TERRAIN CATEGORIES.  
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN  
ENGINEERING COMPUTATIONS TO DETERMINE THE FOOTING DETAIL.

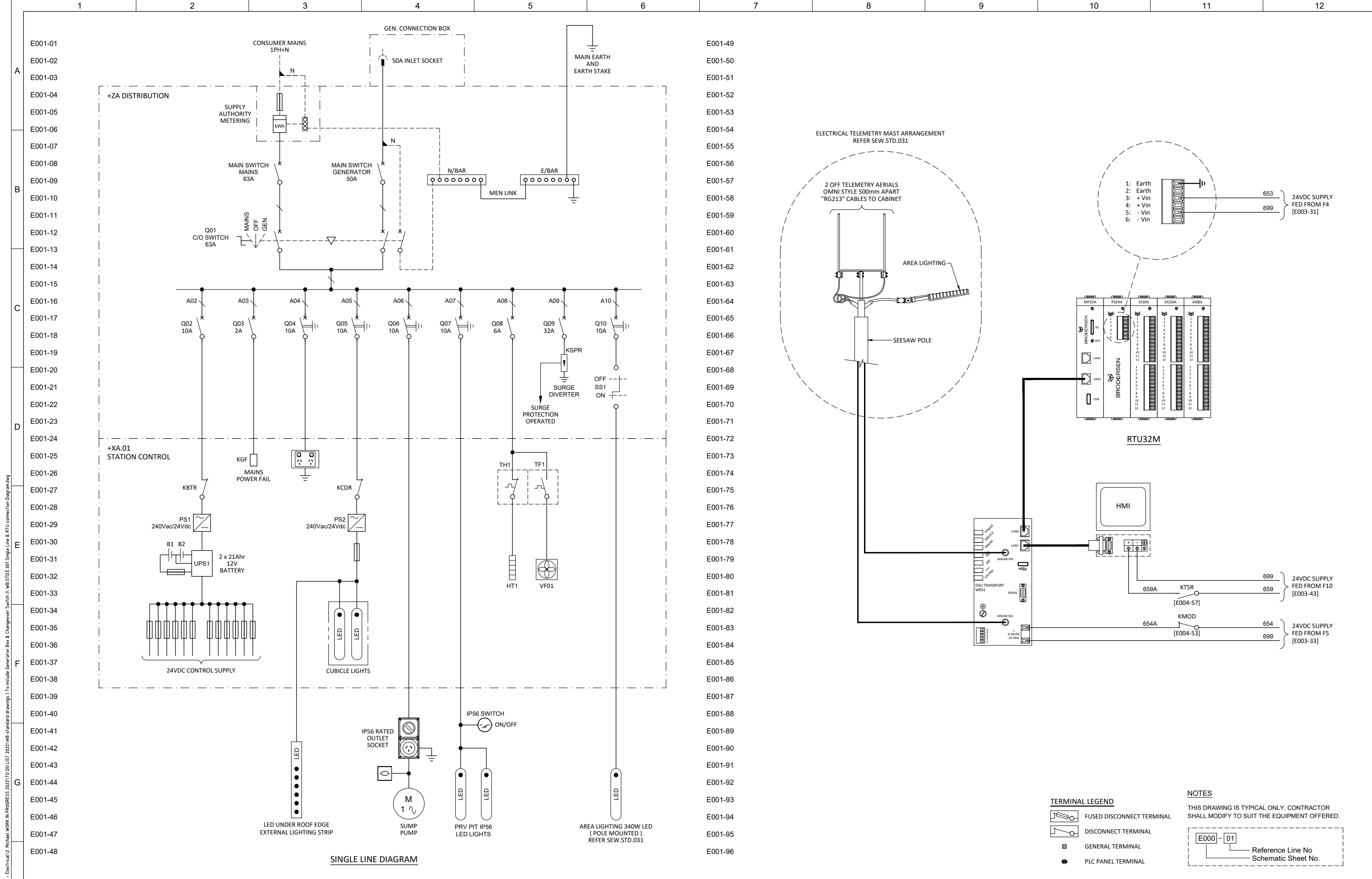
D	CABINET UGRADED TO CABLEWAY MODEL.	01/04/15	K.H
G	AERIAL REFERENCE ADDED, STD LIGHT CHANGED 340W	29.10.20	K.H
F	NOTES & REVISION HISTORY UPDATED	18/10/17	JM
E	2 X ANTENNA AND LED LIGHT ADDED	01/11/16	A.P.W
REV	DESCRIPTION	DATE	APP'D



**SEWAGE PUMPING STATION**  
STANDARD DESIGN REQUIREMENTS  
TELEMETRY MAST & SWITCHBOARD  
MOUNTING DETAILS

DO NOT SCALE		
SCALE: N.T.S.		
DRAWING NUMBER		
SEW-STD-031		G
SHEET 1 OF 1		REV





REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
3	GEN BOX & CHANGE OVER SWITCH ADDED		M.L.			05.10.22
2	MINOR REVISION		M.L.			29.07.22
1	WIRE NUMBERS REVISED		M.L.			22.02.22
0	NEW DRAWING		M.L.			10.02.21

DESIGNER	DRAFTER	SEW PROJECT MANAGER
M.L.M	M.L.M	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

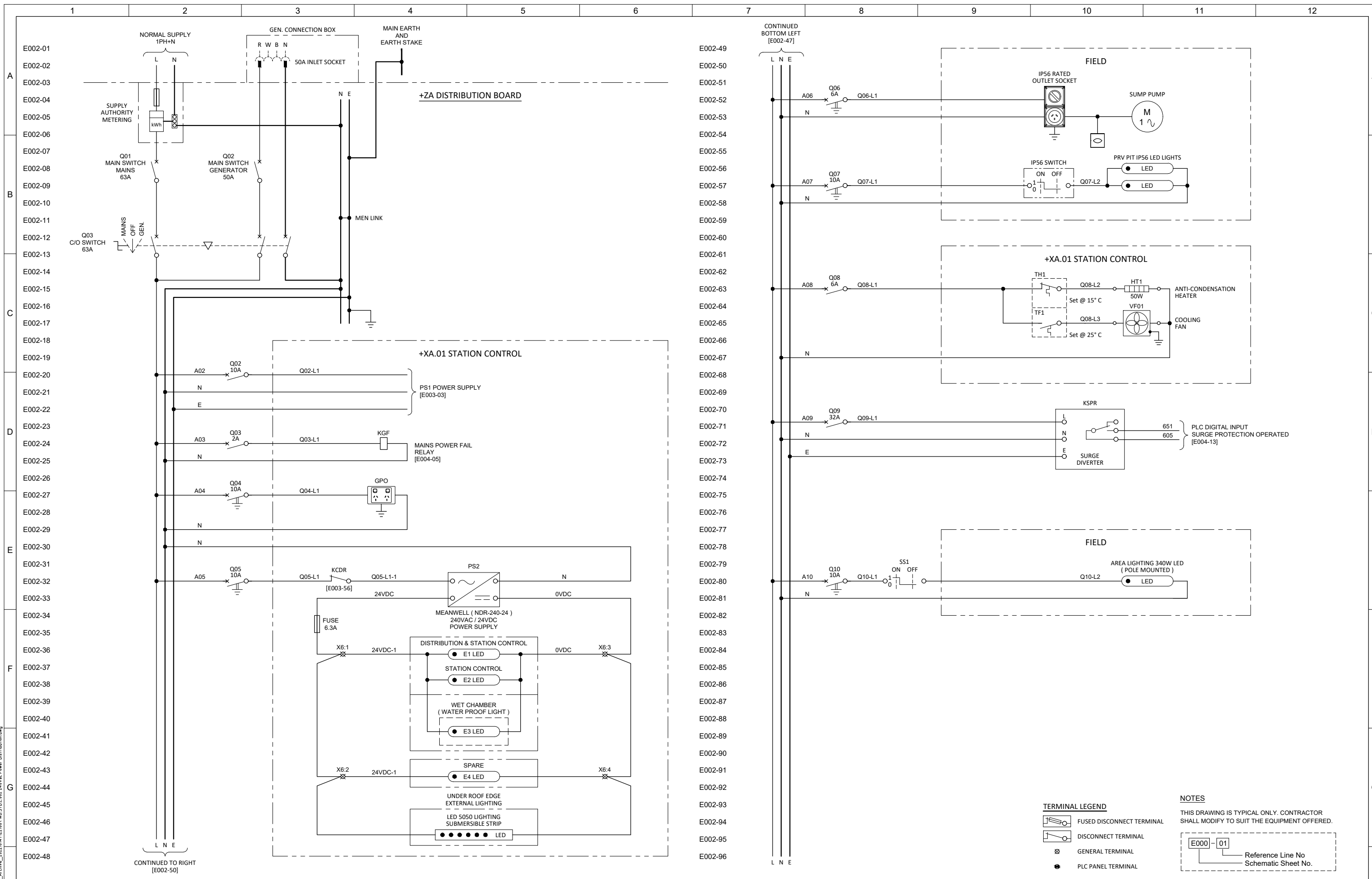
**South East Water**

101 Wells Street, Frankston, VIC 3199 W : www.sew.com.au  
T : 61 3 9552 3000 F : 61 3 9552 3001 E : info@sew.com.au

**PRESSURE REDUCING STATION  
DESIGN DRAWINGS STANDARDS  
SINGLE LINE & RTU CONNECTION  
SCHEMATIC DIAGRAM**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
<b>WB.STD.E.001</b>	<b>3</b>
SEW JOB No:	REV

CAD FILE NAME: X:\Drawings\Sub\pdp\ea\03 - Electrical\Z - Michael\WORK IN PROGRESS 2022\TO DO LIST 2022\WB - Standard drawings (To include Generator Box & Changeover Switch)\WB STD.E.001 Single Line & RTU Connection Diagram.dwg  
 Plotted @ 05/10/2022 11:30am by mlm



REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
3	GEN BOX & CHANGEOVER SWITCH ADDED		M.L.			05.10.22
2	MINOR REVISION		M.L.			29.07.22
1	WIRE NUMBERS REVISED		M.L.			22.02.22
0	NEW DRAWING		M.L.			10.02.21

DESIGNER	DRAFTER	SEW PROJECT MANAGER
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

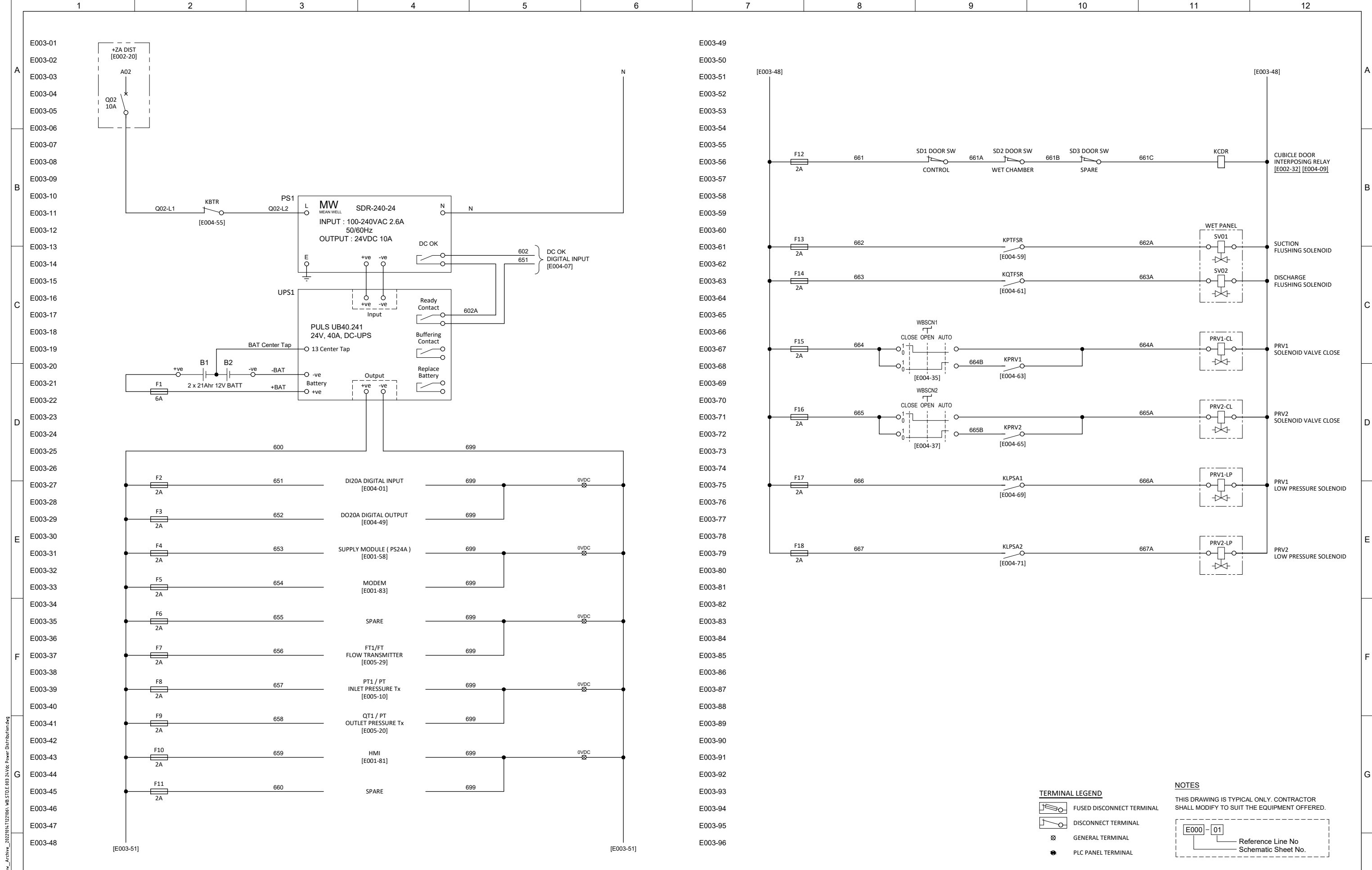
**South East Water**

101 Wells Street, Frankston, VIC 3199 W : www.sew.com.au  
 T : 61 3 9552 3000 F : 61 3 9552 3001 E : info@sew.com.au

**PRESSURE REDUCING STATION  
 DESIGN DRAWINGS STANDARDS  
 +ZA 240VAC POWER DISTRIBUTION  
 SCHEMATIC DIAGRAM**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
<b>WB.STD.E.002</b>	<b>3</b>
SEW JOB No:	REV

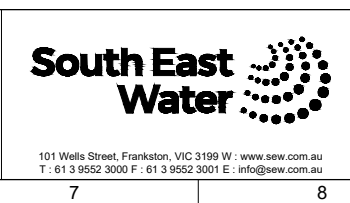
CAD FILE NAME: C:\Users\milm\Downloads\New\_Archive\_2022\01\TZ2106A\_WB STD E 002 240VAC Power Distribution.dwg  
 Plotted @ 14/10/2022 12:36pm by mlm



REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
4	WIRE NUMBERS REVISED			M.L.		22.02.22
3	PRV1 & PRV2 SOLENOID LOW PRESSURE ADDED			M.L.		12.11.21
2	PRV1 & PRV2 CONTROLS ADDED			M.L.		28.10.21
6	UPS REVISED TO PULS UB40.241 ( WAS MEAN WELL )			M.L.		15.08.22
5	MINOR REVISION			M.L.		29.07.22

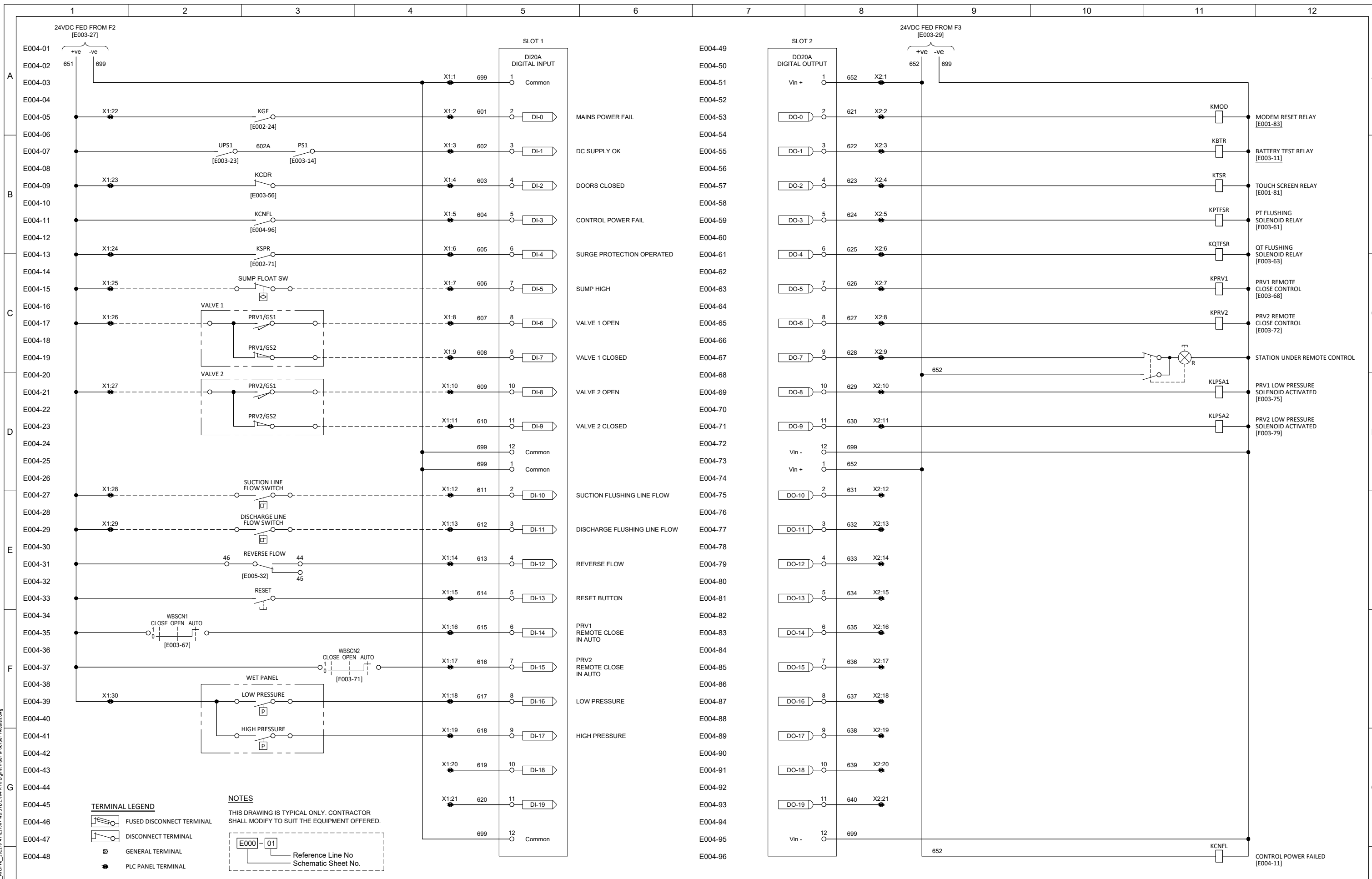
DESIGNER	DRAFTER	SEW PROJECT MANAGER
	M.LIM	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

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**PRESSURE REDUCING STATION  
 DESIGN DRAWINGS STANDARDS  
 +XA.01 24VDC POWER DISTRIBUTION  
 SCHEMATIC DIAGRAM**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
<b>WB.STD.E.003</b>	
SEW JOB No:	6
	REV



**TERMINAL LEGEND**

	FUSED DISCONNECT TERMINAL
	DISCONNECT TERMINAL
	GENERAL TERMINAL
	PLC PANEL TERMINAL

**NOTES**  
 THIS DRAWING IS TYPICAL ONLY. CONTRACTOR SHALL MODIFY TO SUIT THE EQUIPMENT OFFERED.

**E000-01**  
 Reference Line No Schematic Sheet No.

REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
4	WIRE NUMBERS REVISED			M.L.		22.02.22
3	KLPSA1, KLPSA2 & RESET BUTTON ADDED			M.L.		12.11.21
2	PRV1 & PRV2 CONTROLS & DO-7 ADDED			M.L.		28.10.21
1	KCDR REVISED TO NORMALLY CLOSED			M.L.		23.09.21
5	MINOR REVISION			M.L.		29.07.22

DESIGNER	DRAFTER	SEW PROJECT MANAGER
M.L.M	M.L.M	06.02.20
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

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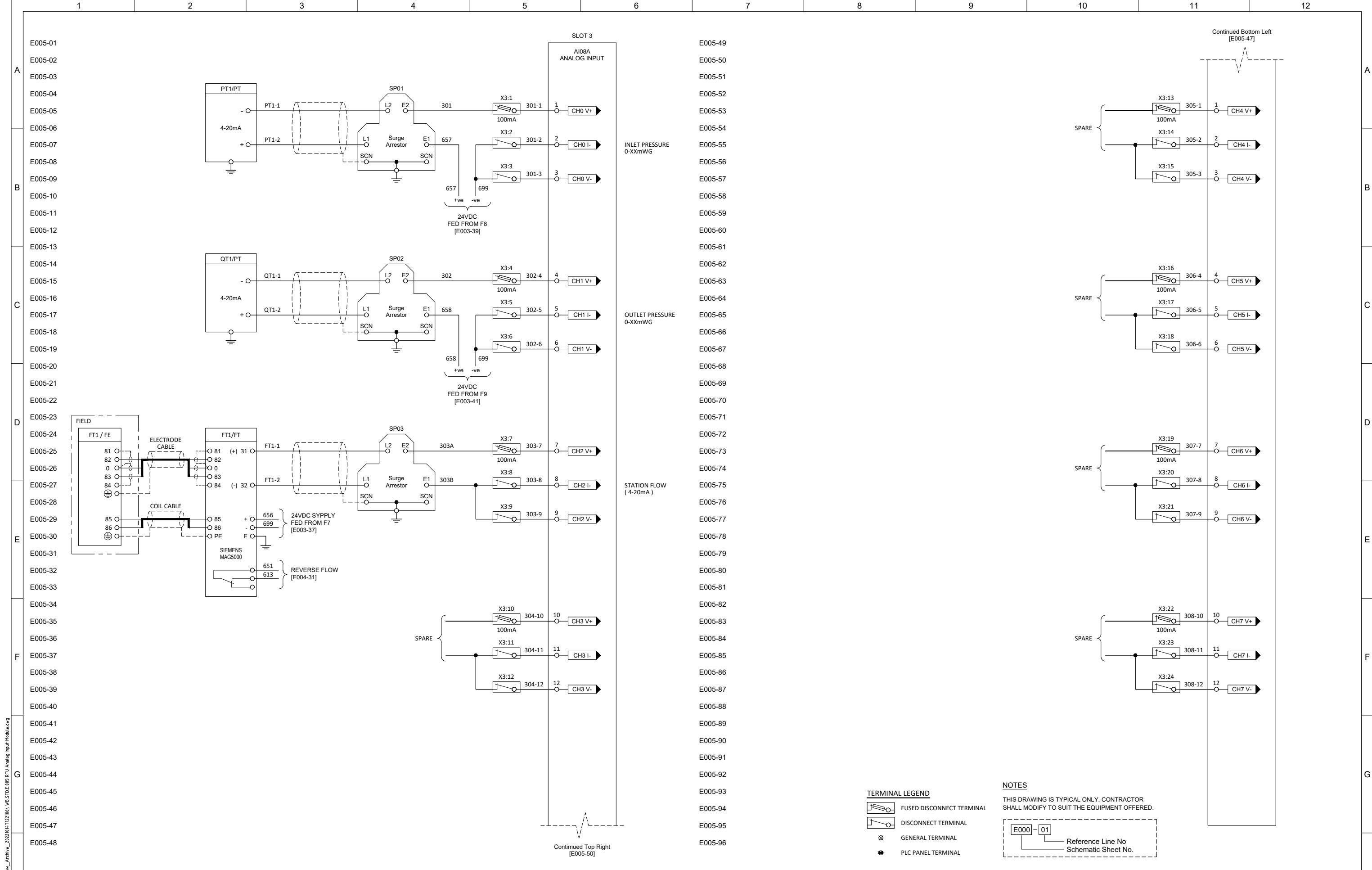


101 Wells Street, Frankston, VIC 3199 W : www.sew.com.au  
 T : 61 3 9552 3000 F : 61 3 9552 3001 E : info@sew.com.au

**PRESSURE REDUCING STATION  
 DESIGN DRAWINGS STANDARDS  
 RTU DIGITAL INPUT & OUTPUT MODULES  
 SCHEMATIC DIAGRAM**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
<b>WB.STD.E.004</b>	<b>5</b>
SEW JOB No:	REV

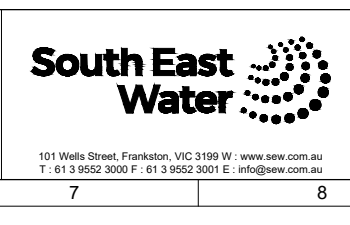
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 Plotted @ 14/10/2022 12:37pm by mlm



REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
2	MINOR REVISION		M.L.			29.07.22
1	WIRE NUMBERS REVISED		M.L.			22.02.22
0	NEW DRAWING		M.L.			10.02.21

DESIGNER	DRAFTER	SEW PROJECT MANAGER
M.L.M	M.L.M	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

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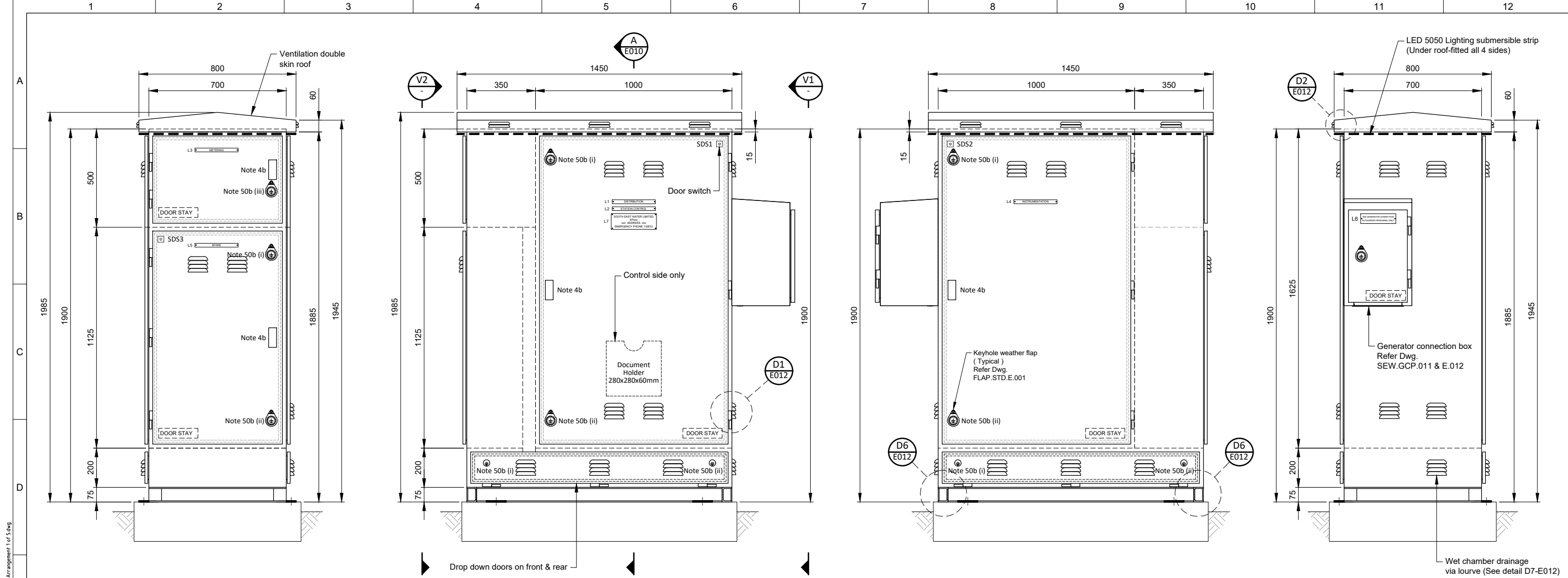
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DESIGN DRAWINGS STANDARDS  
RTU ANALOG INPUT MODULE  
SCHEMATIC DIAGRAM**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
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SEW JOB No:	REV

CAD FILE NAME: C:\Users\milm\Downloads\New\_Archive\_20220112\RTU Analog Input Module.dwg







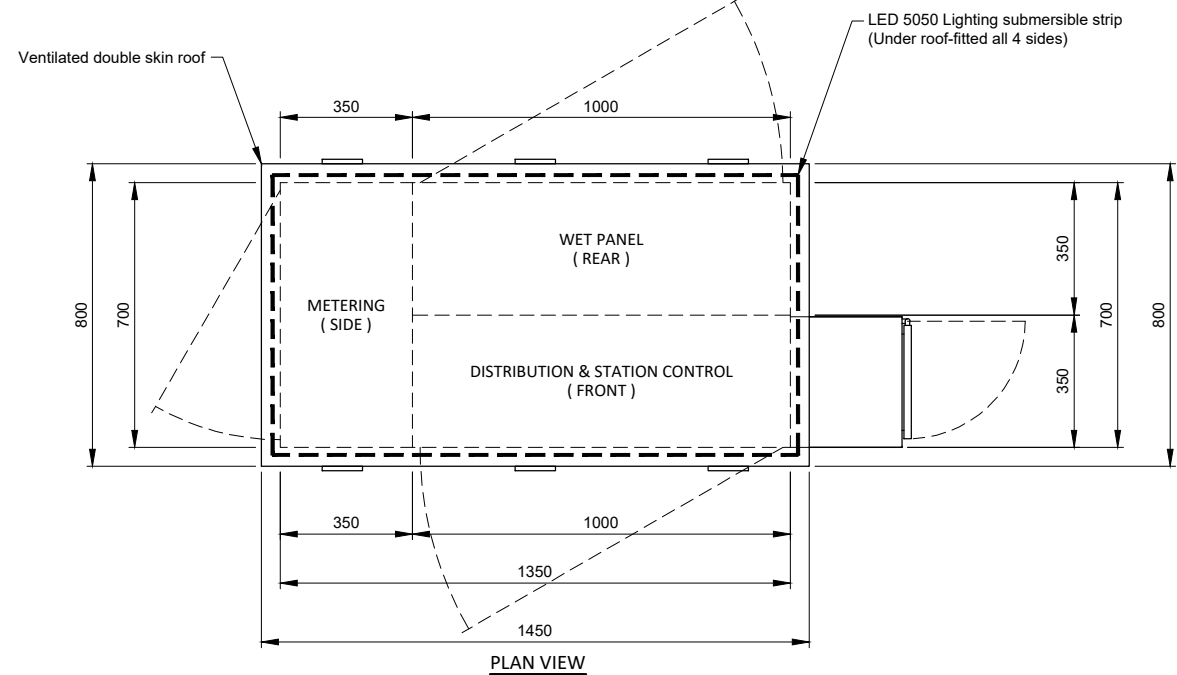
Drop down doors on front & rear  
**NOTES:**  
 1. SWITCHBOARD CONSTRUCTION TO COMPLY WITH AS61439.

VIEW V2 METERING PANEL DOORS ON

FRONT ELEVATION - DISTRIBUTION & STATION CONTROL (DOORS ON)

REAR ELEVATION - WET PANEL (DOORS ON)

VIEW V1 GENERATOR BOX DOORS ON



PLAN VIEW

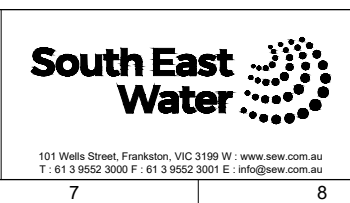
**NOTES**  
 THIS DRAWING IS TYPICAL ONLY. CONTRACTOR SHALL MODIFY TO SUIT THE EQUIPMENT OFFERED.

CAD FILE NAME: X:\Drawings\Substation\03 - Electrical\2 - Michael Work in Progress\2022\10 DD LIST 2022\WB STD.E.008 Main Switchboard General Arrangement 1 of 5.dwg

REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
1	GENERATOR CONNECTION BOX & C/O SWITCH ADDED		M.L.			05.10.22
0	NEW DRAWING ( UPGRADE 2021 )		M.L.			12.01.21

DESIGNER	DRAFTER	SEW PROJECT MANAGER
J.STREET	M.LIM	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
12.01.21		
APPROVED		

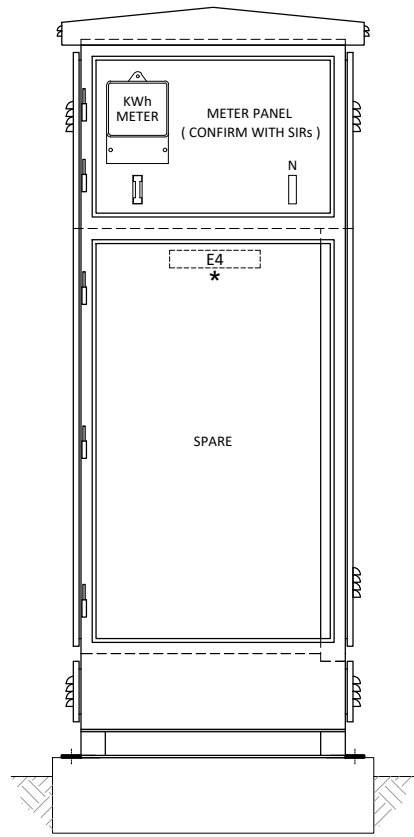
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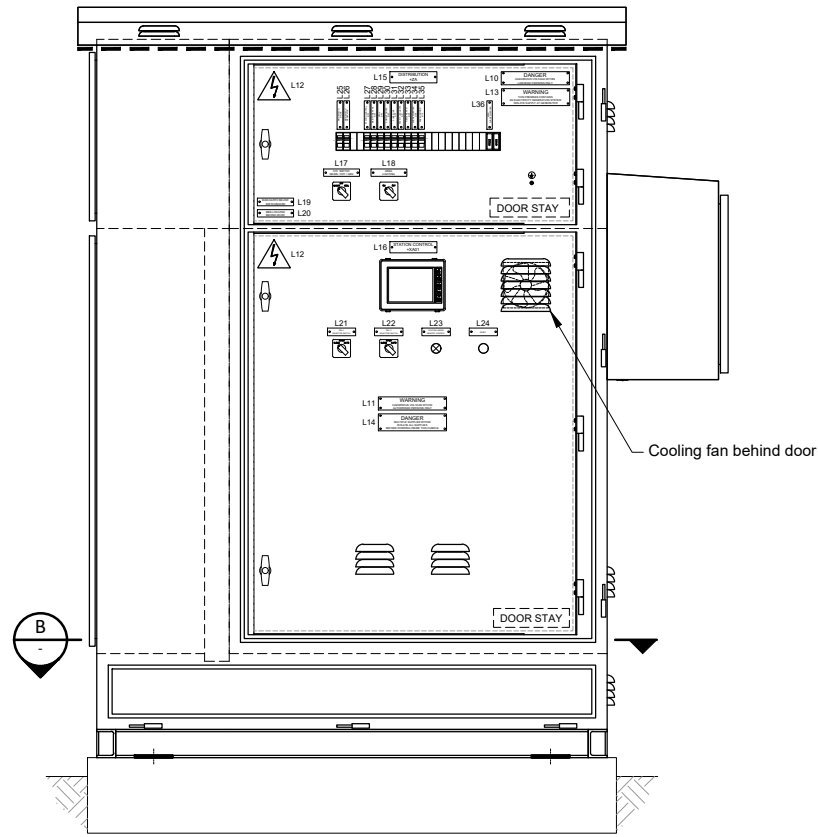
**PRESSURE REDUCING STATION  
 DESIGN DRAWINGS STANDARDS  
 MAIN SWITCHBOARD  
 GENERAL ARRANGEMENT ( SHEET 1 OF 5 )**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
<b>WB.STD.E.008</b>	
SEW JOB No:	1
REV	1

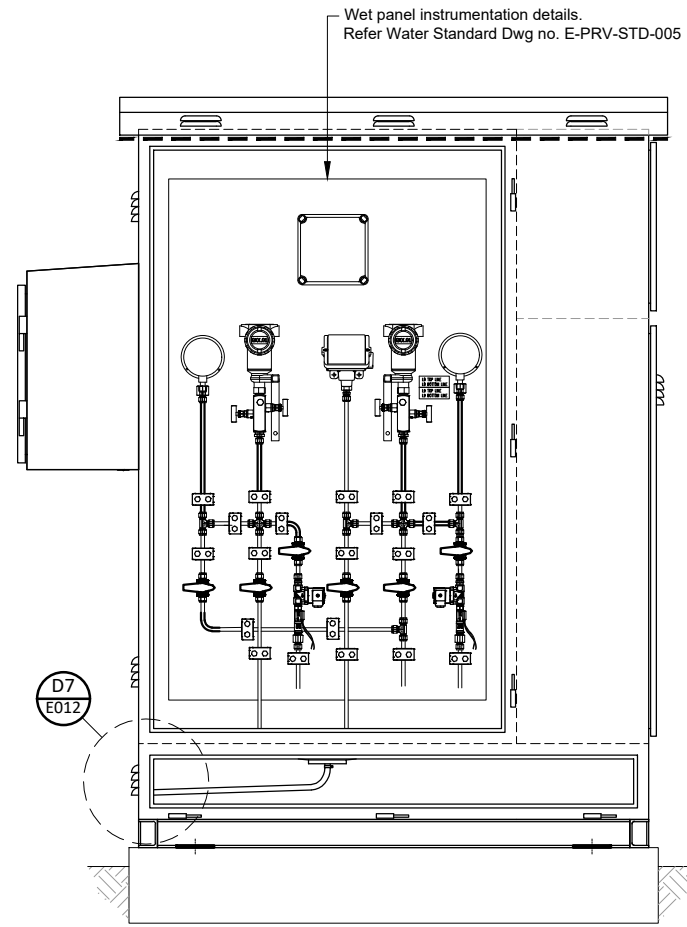
\* CUBICLE DOOR LIGHTING ( WB.STD.E.002 )



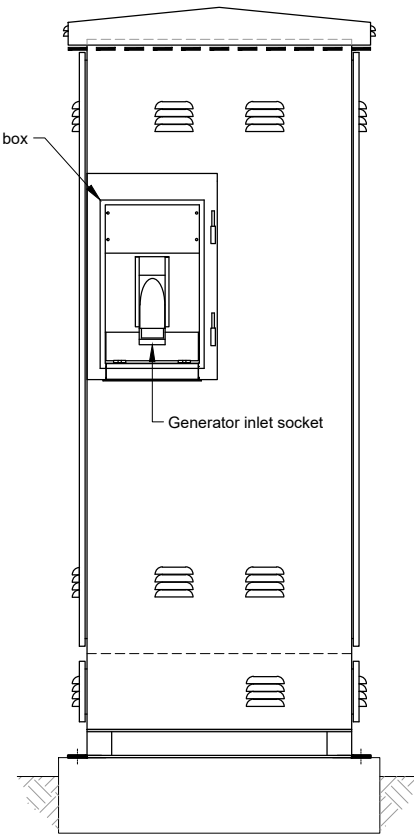
VIEW **V2** METERING PANEL  
DOORS REMOVED



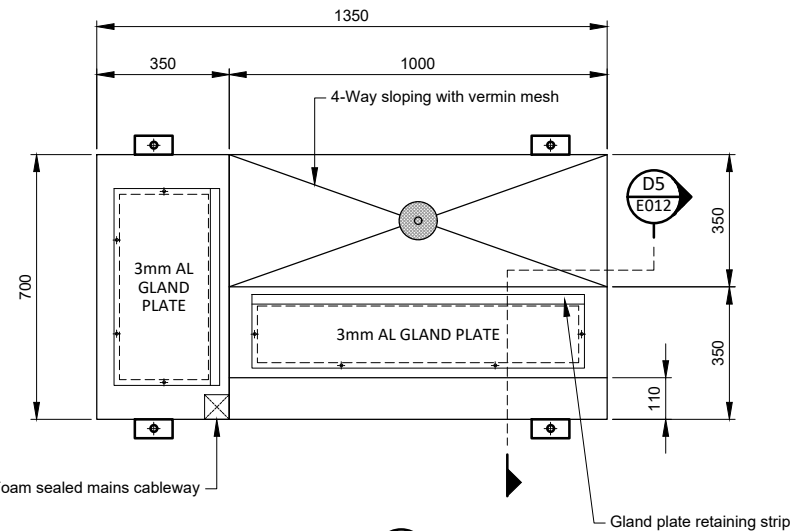
FRONT ELEVATION - DISTRIBUTION & STATION CONTROL  
(OUTER DOORS REMOVED)



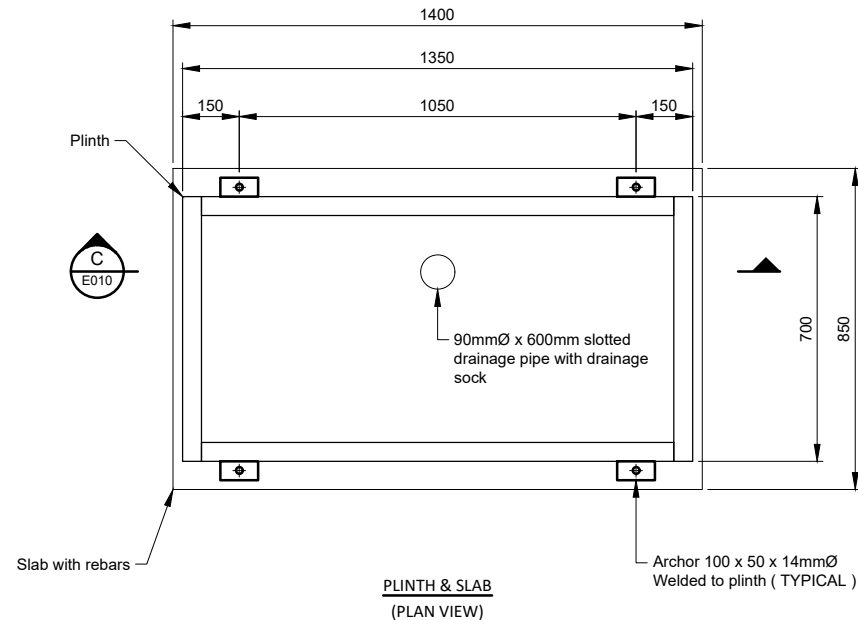
REAR ELEVATION - WET PANEL  
(DOOR REMOVED)



VIEW **V1** GENERATOR BOX  
(DOOR REMOVED)



SECTION **B**



PLINTH & SLAB  
(PLAN VIEW)

**NOTES**

THIS DRAWING IS TYPICAL ONLY. CONTRACTOR SHALL MODIFY TO SUIT THE EQUIPMENT OFFERED.

REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
3	GENERATOR CONNECTION BOX & C/O SWITCH ADDED		M.L.			05.10.22
2	ADDED RESET BUTTON		M.L.			12.11.21
1	PRV1, PRV2 & STATION UNDER REMOTE CONTROL ADDED		M.L.			28.10.21
0	NEW DRAWING ( UPGRADE 2021 )		M.L.			12.01.21

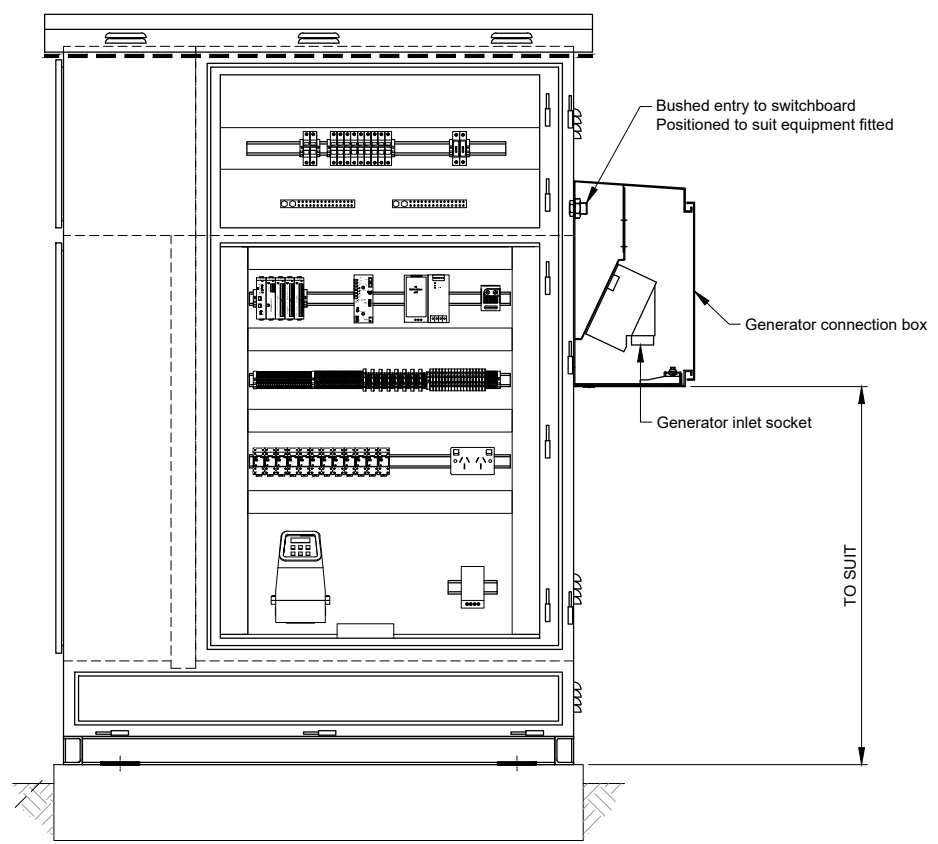
DESIGNER	DRAFTER	SEW PROJECT MANAGER
J.STREET	M.LIM	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
12.01.21		
APPROVED		

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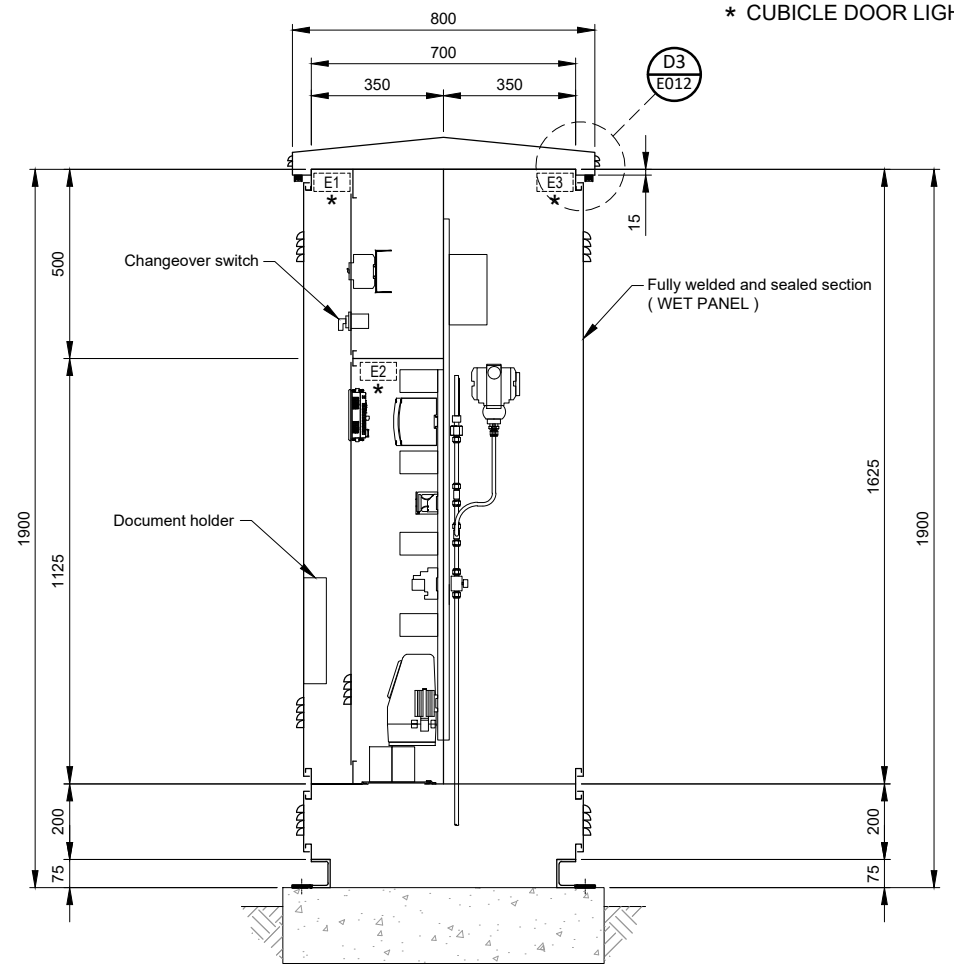


**PRESSURE REDUCING STATION  
DESIGN DRAWINGS STANDARDS  
MAIN SWITCHBOARD  
GENERAL ARRANGEMENT ( SHEET 2 OF 5 )**

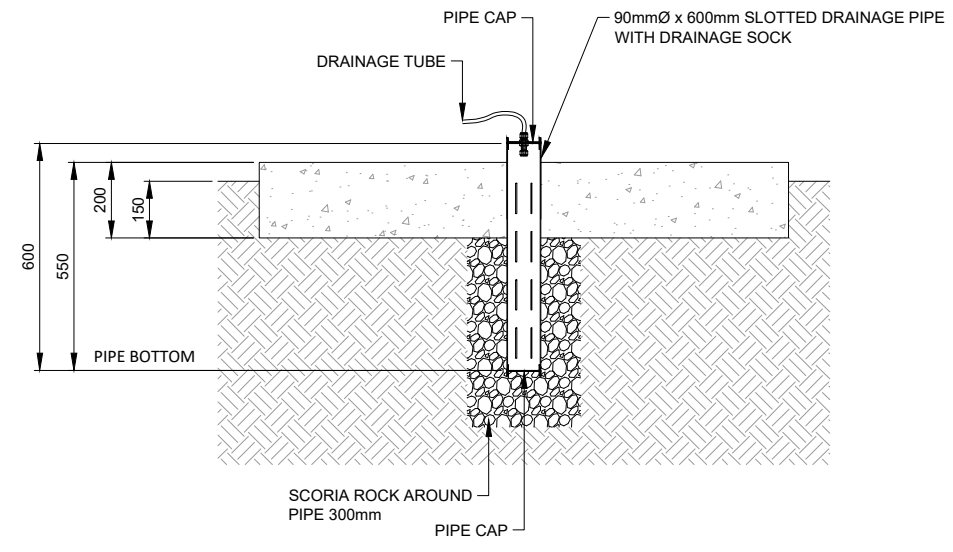
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MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
<b>WB.STD.E.009</b>	
SEW JOB No:	3
REV	



FRONT ELEVATION - DISTRIBUTION & STATION CONTROL  
(ALL DOORS REMOVED)



SECTION A  
E008



SECTION C  
E009  
PLINTH NOT SHOWN FOR CLARITY

NOTES  
THIS DRAWING IS TYPICAL ONLY. CONTRACTOR SHALL MODIFY TO SUIT THE EQUIPMENT OFFERED.

REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
3	GENERATOR CONNECTION BOX & C/O SWITCH ADDED		M.L.			05.10.22
2	ADDED RELAYS KHPSA1 & KHPSA2 ( LABEL L40 )		M.L.			12.11.21
1	LABEL L40 ADDED TO STATION CONTROL		M.L.			28.10.21
0	NEW DRAWING ( UPGRADE 2021 )		M.L.			12.01.21

DESIGNER M.LIM 12.01.21	DRAFTER M.LIM 12.01.21	SEW PROJECT MANAGER
DESIGN REVIEW J.STREET 12.01.21	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

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**South East Water**

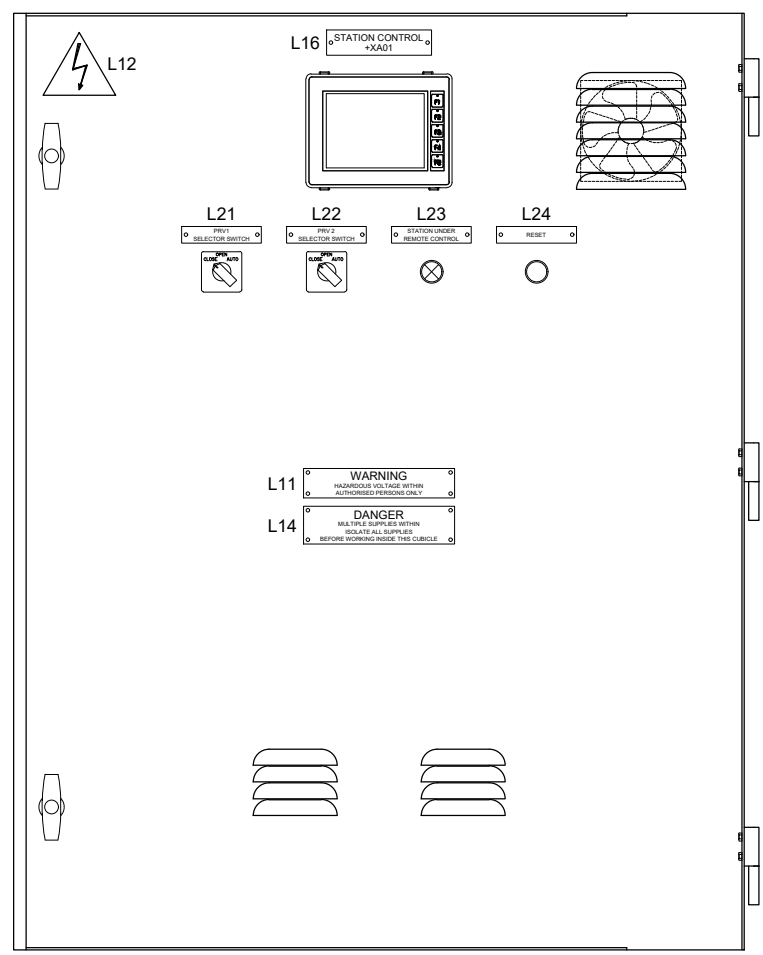
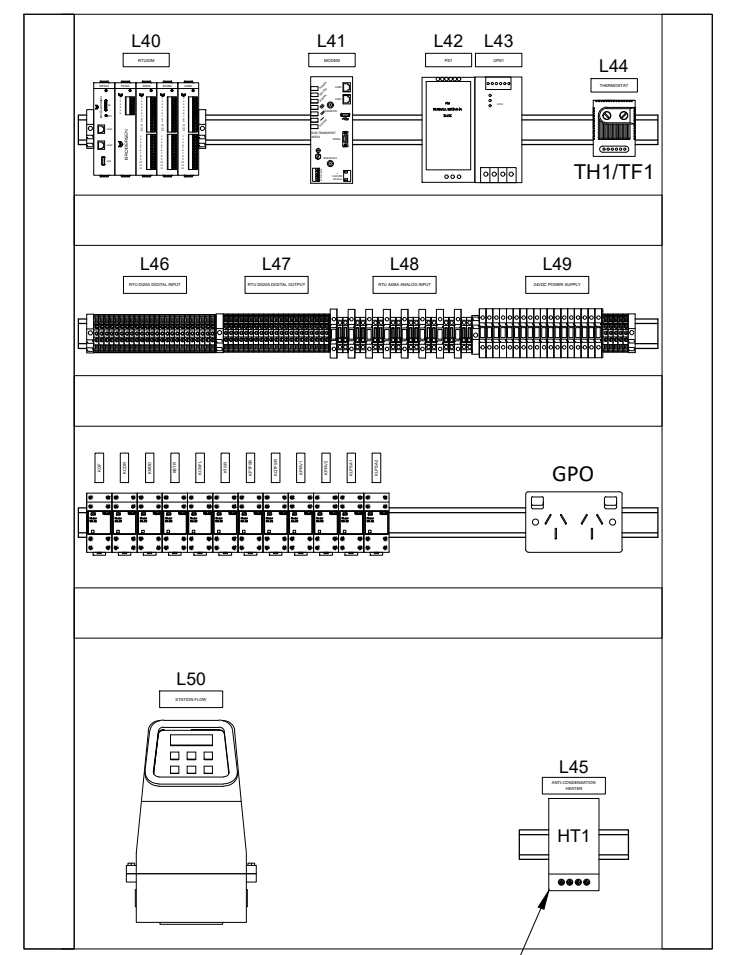
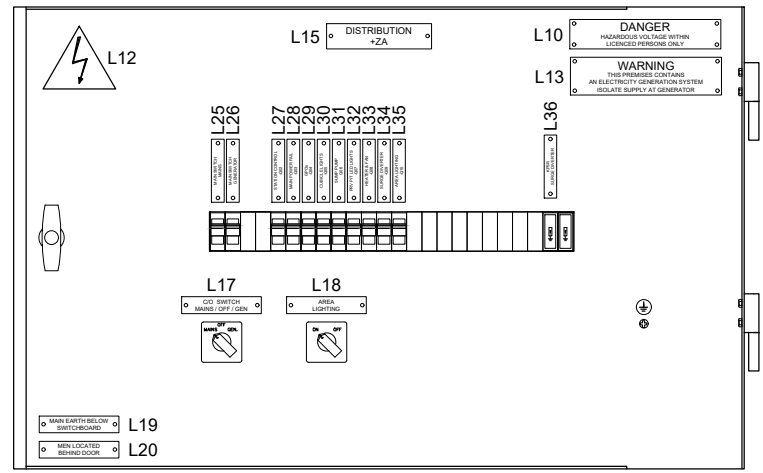
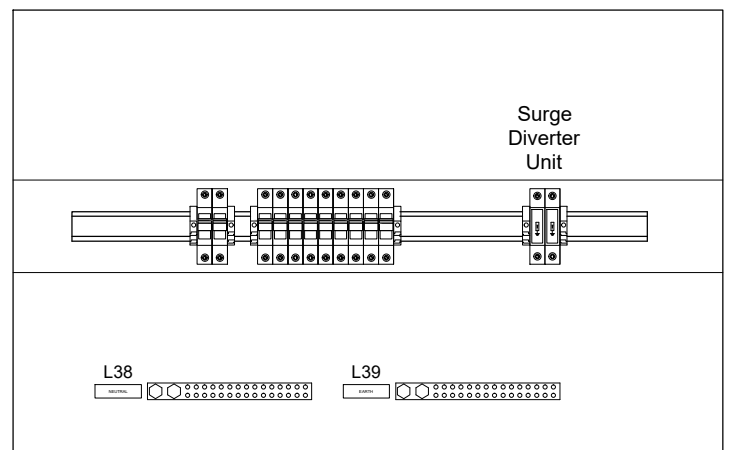
101 Wells Street, Frankston, VIC 3199 W : www.sew.com.au  
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PRESSURE REDUCING STATION  
DESIGN DRAWINGS STANDARDS  
MAIN SWITCHBOARD  
GENERAL ARRANGEMENT ( SHEET 3 OF 5 )

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
WB.STD.E.010	
SEW JOB No:	3
	REV

CAD FILE NAME: X:\Drawings\B\Updates\03 - Electrical\2 Michael Work in Progress 2021\DO LIST 2021\WB Standard drawings ( To include Generator Box & Changeover Switch )\WB STD.E.010 Main Switchboard General Arrangement 3 of 5.dwg  
Plotted @ 05/10/2022 10:05am by mlm

CAD FILE NAME: X:\Drawings\88\Update\88\3 - Electrical\2 - Michael Work in Progress\2022\10\10\WB STD.E.011 Main Switchboard General Arrangement 4 of 5.dwg



ANTI-CONDENSATION HEATER  
NSYCR50WU2C ClimaSys PTC heating resistance  
50W, 110-250V insulate ( TYPICAL)

**+ZA Distribution & Station Control**  
**Doors & Gear Trays Details ( N.T.S )**

**NOTES**  
THIS DRAWING IS TYPICAL ONLY. CONTRACTOR SHALL MODIFY TO SUIT THE EQUIPMENT OFFERED.

REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
0	NEW DRAWING ADDED		M.L.			05.10.22

DESIGNER	DRAFTER	SEW PROJECT MANAGER
J.STREET	M.LIM	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
12.01.21		
APPROVED		

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**PRESSURE REDUCING STATION**  
**DESIGN DRAWINGS STANDARDS**  
**MAIN SWITCHBOARD**  
**GENERAL ARRANGEMENT ( SHEET 4 OF 5 )**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
<b>WB.STD.E.011</b>	
SEW JOB No:	
	<b>0</b>
REV	

