

NOTES

- NON AUTO MANUAL TRANSFER SWITCH TO REPLACE ATS FOR SITES AS SPECIFIED.
- DE CONTACTOR PLUG SOCKET REPLACED BY HARD WIRE LINKS FOR SITE WITH A PERMANENT GENERATOR.
- PLUG SOCKET SIZED TO SUIT 50A, 90A, 150A & 250A.

CABLE COLOUR CODE :

- 3Ø CIRCUIT - RED, WHITE, BLUE
- NEUTRAL - BLACK
- EARTHING - GREEN / YELLOW
- CONTROL LV VAC - GREY
- CONTROL NEUTRAL LV VAC - BLACK
- CONTROL ELV VAC - ORANGE
- CONTROL NEUTRAL ELV VAC - ORANGE
- CONTROL ELV VDC - VIOLET
- CONTROL NEUTRAL ELV VDC - VIOLET
- INSTRUMENTATION (SCREENED) POSITIVE - WHITE
- INSTRUMENTATION (SCREENED) NEGATIVE - BLACK

RECOMMENDED WIRING SIZES

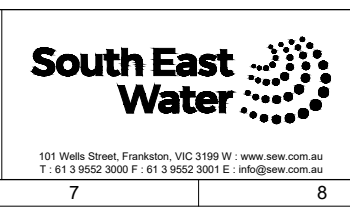
- GENERAL POWER WIRING - 2.5mm²
- CT SECONDARY WIRING - 2.5mm²
- LIGHTING - 1.5mm² (min)
- CONTROL WIRING - 0.5mm² (min)
- PLC & RTU I/O - 0.5mm²
- INSTRUMENTATION WIRING TWISTED PAIR INDIVIDUAL & OVERALL SCREEN - 0.3mm²
- INSTRUMENTATION POWER - FLEXIBLE CORD TO AS3191

CAD FILE NAME: X:\DRAWING\103-ELC-112-MCH-T102-NF-T117PCA-T101-SOF-T1 SPSS.E.001 - Soft Starter Operation Single Line Diagram 1 of 2.dwg

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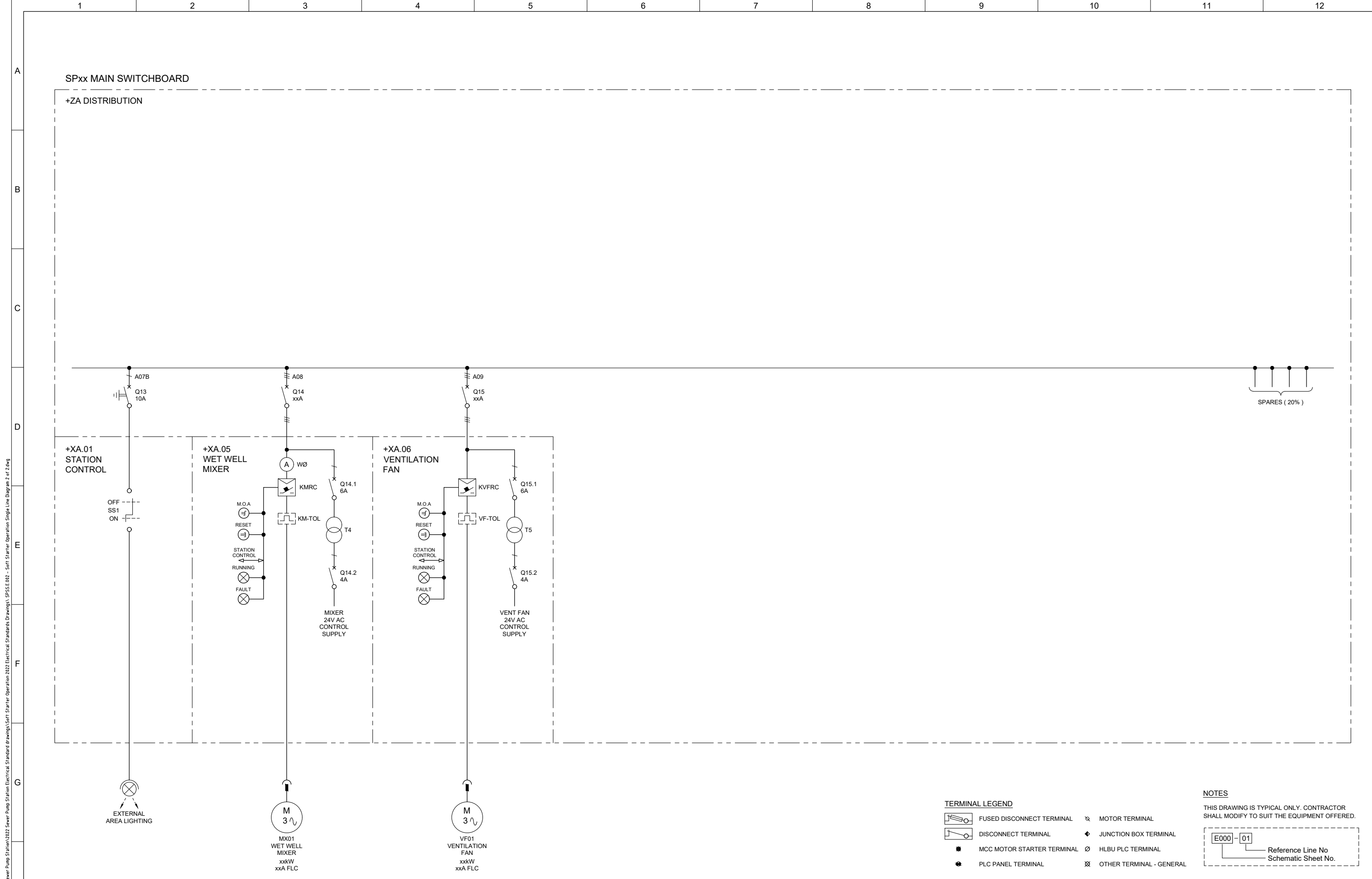
DESIGNER	M.LIM	SEW PROJECT MANAGER
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

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**SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
SOFT STARTER (S/S) OPERATION
SINGLE LINE DIAGRAM (SHEET 1 OF 2)**

DATUM:	
MELWAY REF:	
SCALE:	
SEW DRAWING NUMBER	
SPSS.E.001	
SEW JOB No:	
SHEET SIZE: A1	
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REV	



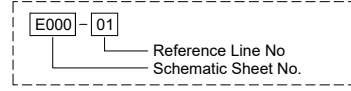
CAD FILE NAME: C:\Michael's Backlog\14 - SP Sewer Pump Station Electrical Standards Drawings\Soft Starter Operation 2022 Electrical Standards Drawings\SPSS.E.002 - Soft Starter Operation Single Line Diagram 2 of 2.dwg
 Plotted @ 05/9/2022 12:58pm by mlm

TERMINAL LEGEND

- FUSED DISCONNECT TERMINAL
- DISCONNECT TERMINAL
- MCC MOTOR STARTER TERMINAL
- PLC PANEL TERMINAL
- MOTOR TERMINAL
- JUNCTION BOX TERMINAL
- HLBU PLC TERMINAL
- OTHER TERMINAL - GENERAL

NOTES

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



REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APPD	DATE
0	REDRAW 2022		M.L.			15.03.22

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

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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
SOFT STARTER (S/S) OPERATION
SINGLE LINE DIAGRAM (SHEET 2 OF 2)

DATUM:	
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SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
SPSS.E.002	
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	M.LIM	
	2022	
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APPROVED		

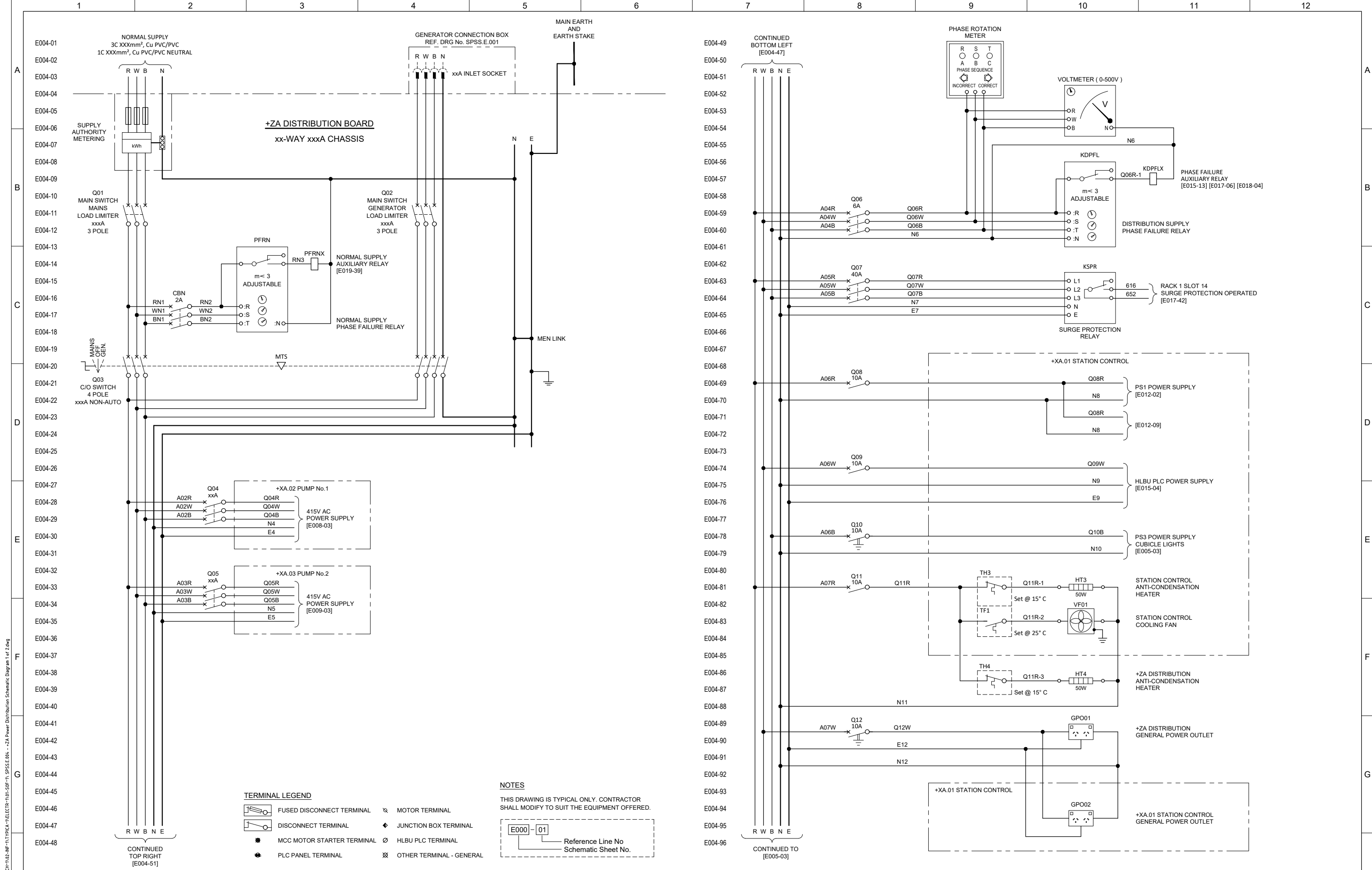
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**SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
BLANK**

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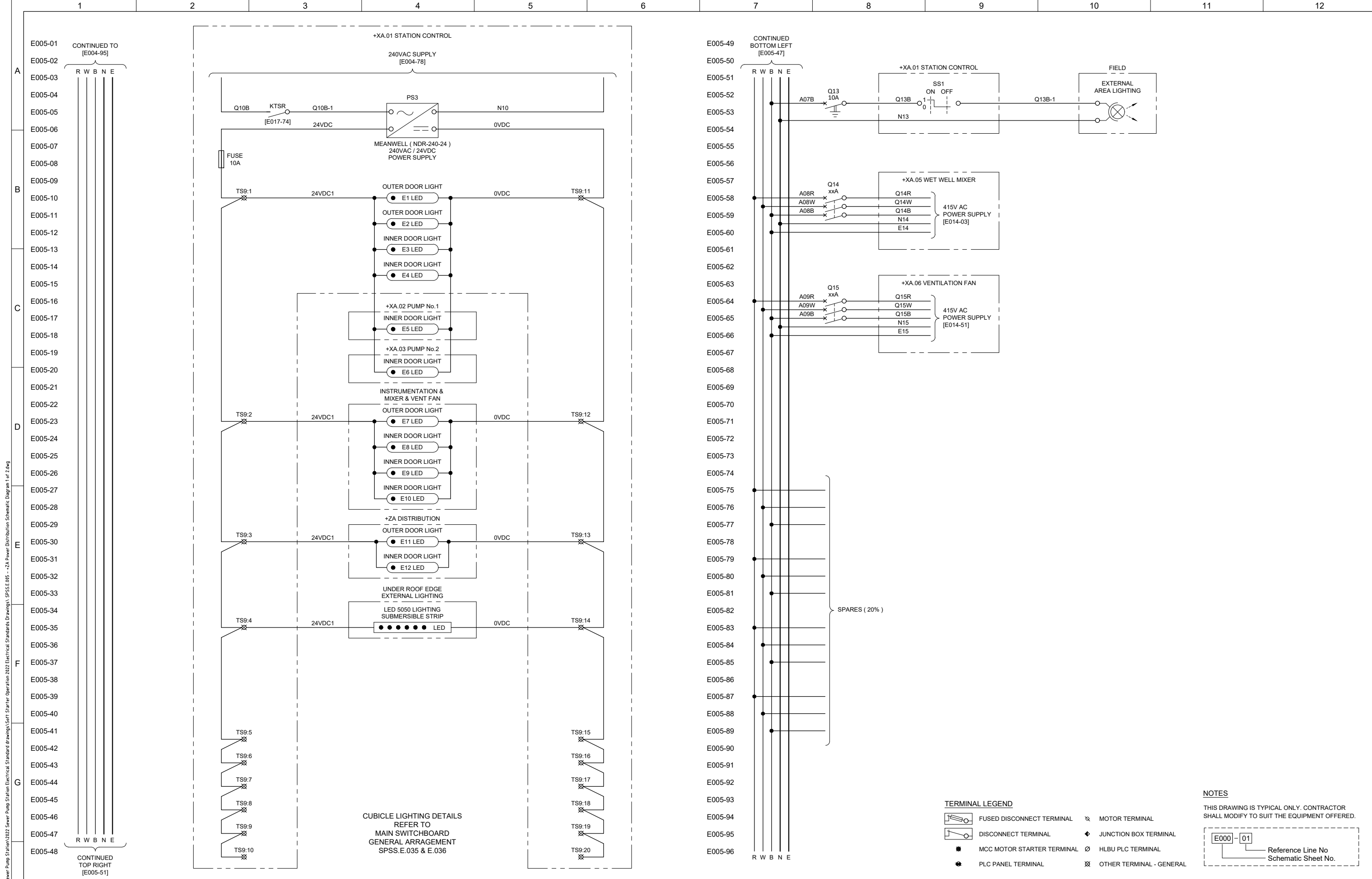
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M.LIM	2022	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+ZA POWER DISTRIBUTION
SCHEMATIC DIAGRAM (SHEET 1 OF 2)

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
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 Plotted @ 05/9/2022 12:59pm by mlm

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DESIGNER	DRAFTER	SEW PROJECT MANAGER
	M.LIM	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
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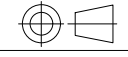
SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+ZA POWER DISTRIBUTION
SCHEMATIC DIAGRAM (SHEET 2 OF 2)

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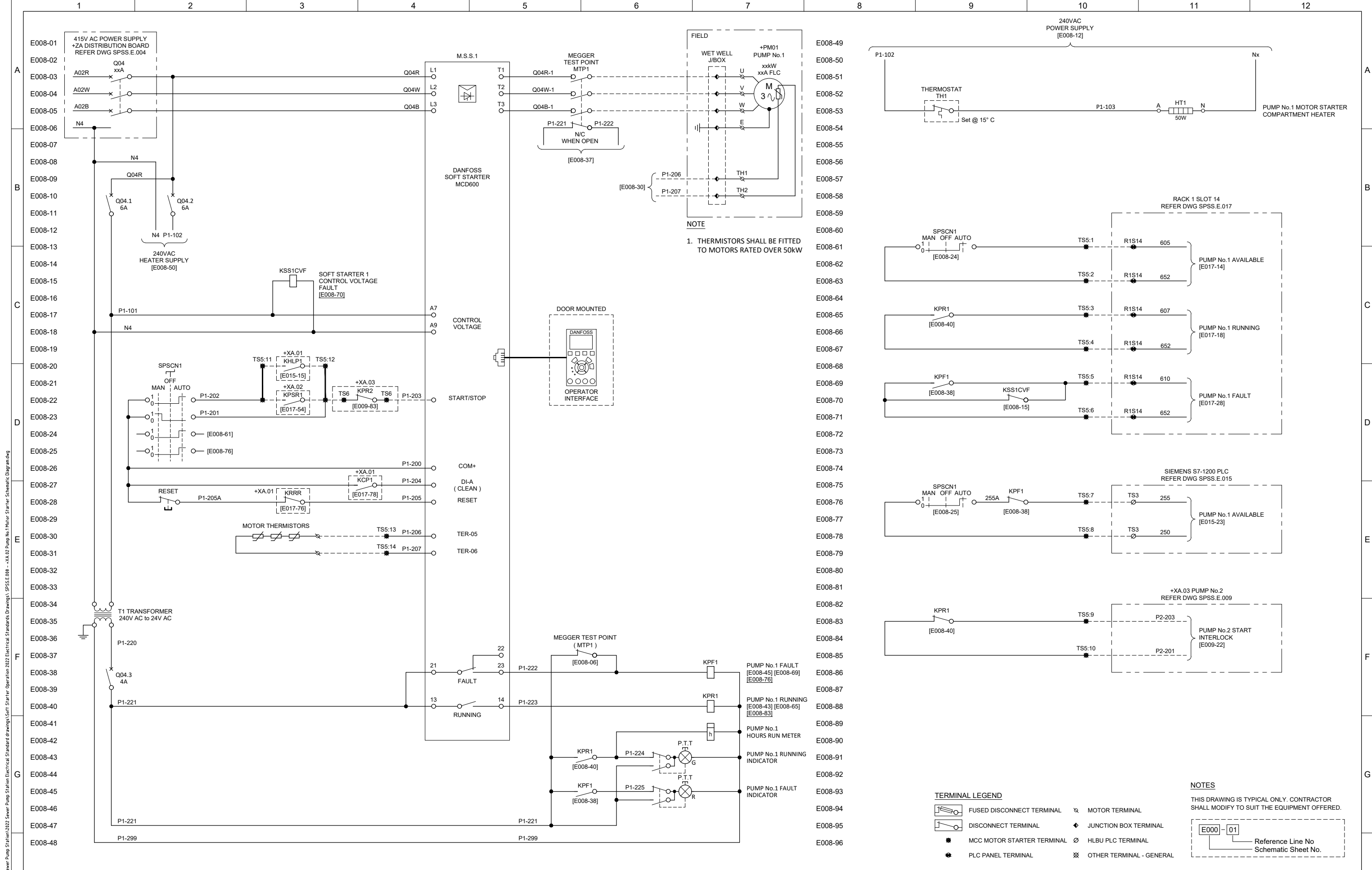
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 Plotted @ 05/9/2022 12:59pm by mlm

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REV												SEW JOB No:	REV					
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NOTE
1. THERMISTORS SHALL BE FITTED TO MOTORS RATED OVER 50KW

TERMINAL LEGEND

	FUSED DISCONNECT TERMINAL		MOTOR TERMINAL
	DISCONNECT TERMINAL		JUNCTION BOX TERMINAL
	MCC MOTOR STARTER TERMINAL		HLBU PLC TERMINAL
	PLC PANEL TERMINAL		OTHER TERMINAL - GENERAL

NOTES
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Reference Line No Schematic Sheet No.

DESIGNER	M.LIM	2022	SEW PROJECT MANAGER
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER	
APPROVED			
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DESIGNER	M.LIM	2022	SEW PROJECT MANAGER
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APPROVED			

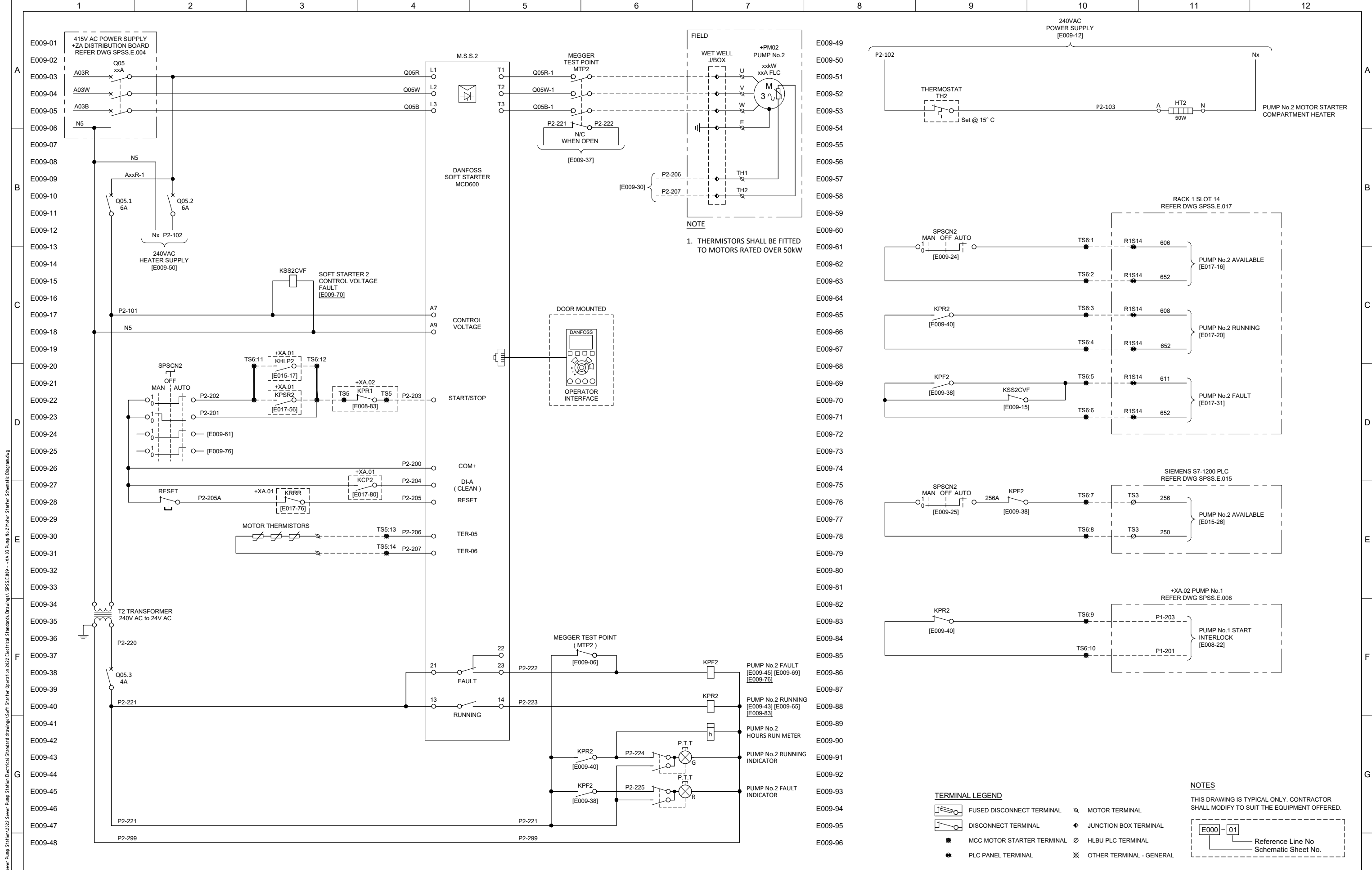
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**SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.02 PUMP No.1 MOTOR STARTER
SCHEMATIC DIAGRAM**

DATUM:	
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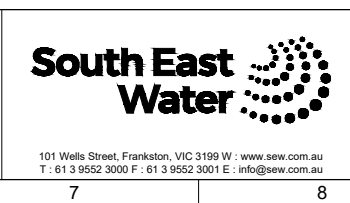


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0	REDRAW 2022		M.L.			15.03.22	

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

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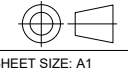


SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.03 PUMP No.2 MOTOR STARTER
SCHEMATIC DIAGRAM

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SEW JOB No:	0
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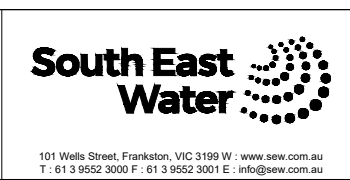
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REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APP'D	DATE
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DESIGNER M.LIM	DRAFTER 2022	SEW PROJECT MANAGER
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER

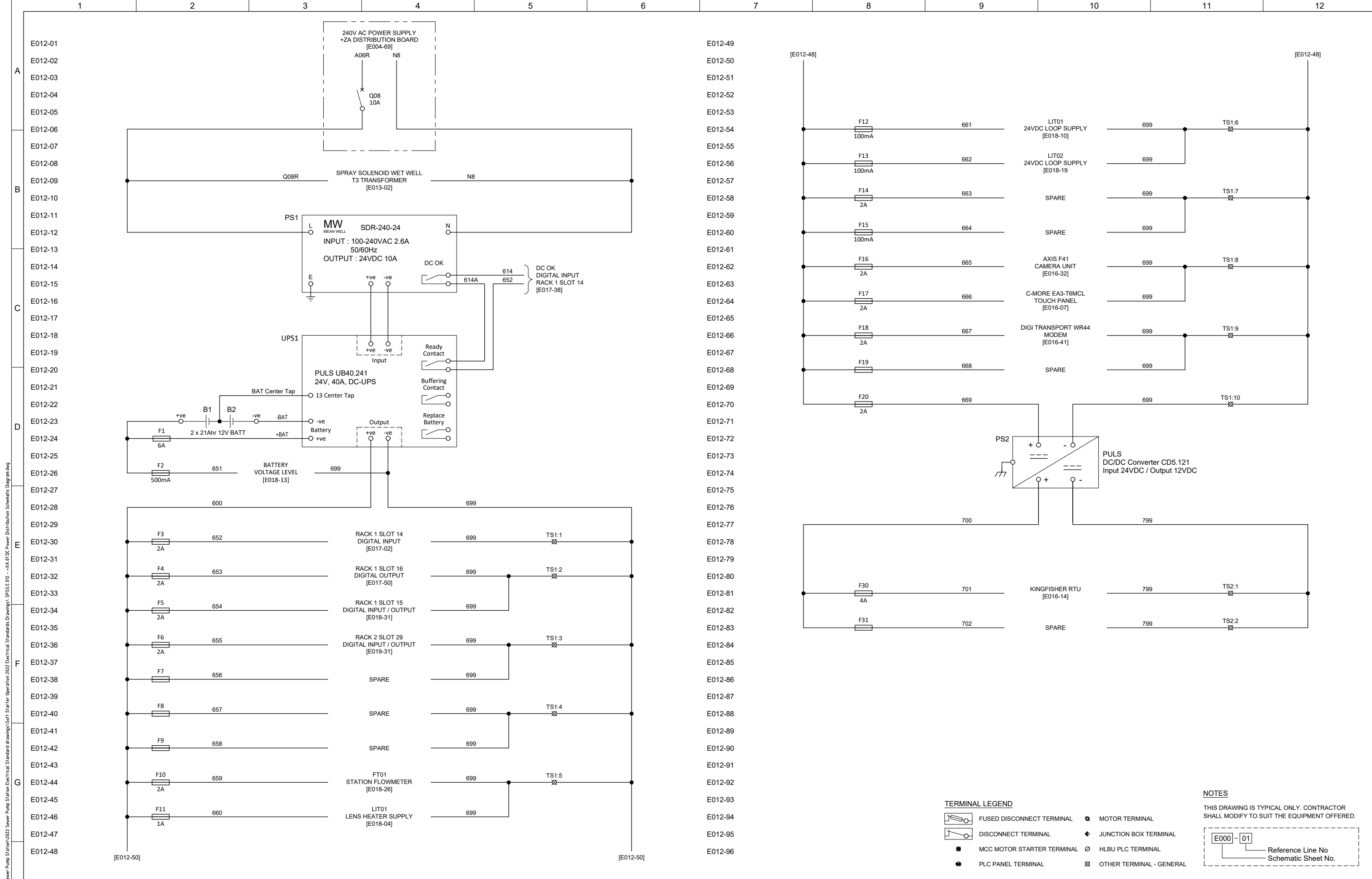
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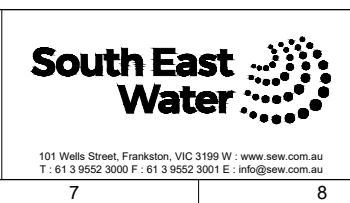


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 Plotted @ 05/9/2022 12:59pm by mlm

REV	DESCRIPTION	JOB No	DRAFTER	DES REVIEW	PM APPD	DATE
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0	REDRAW 2022		M.L.			15.03.22

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

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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.01 DC POWER DISTRIBUTION
SCHEMATIC DIAGRAM

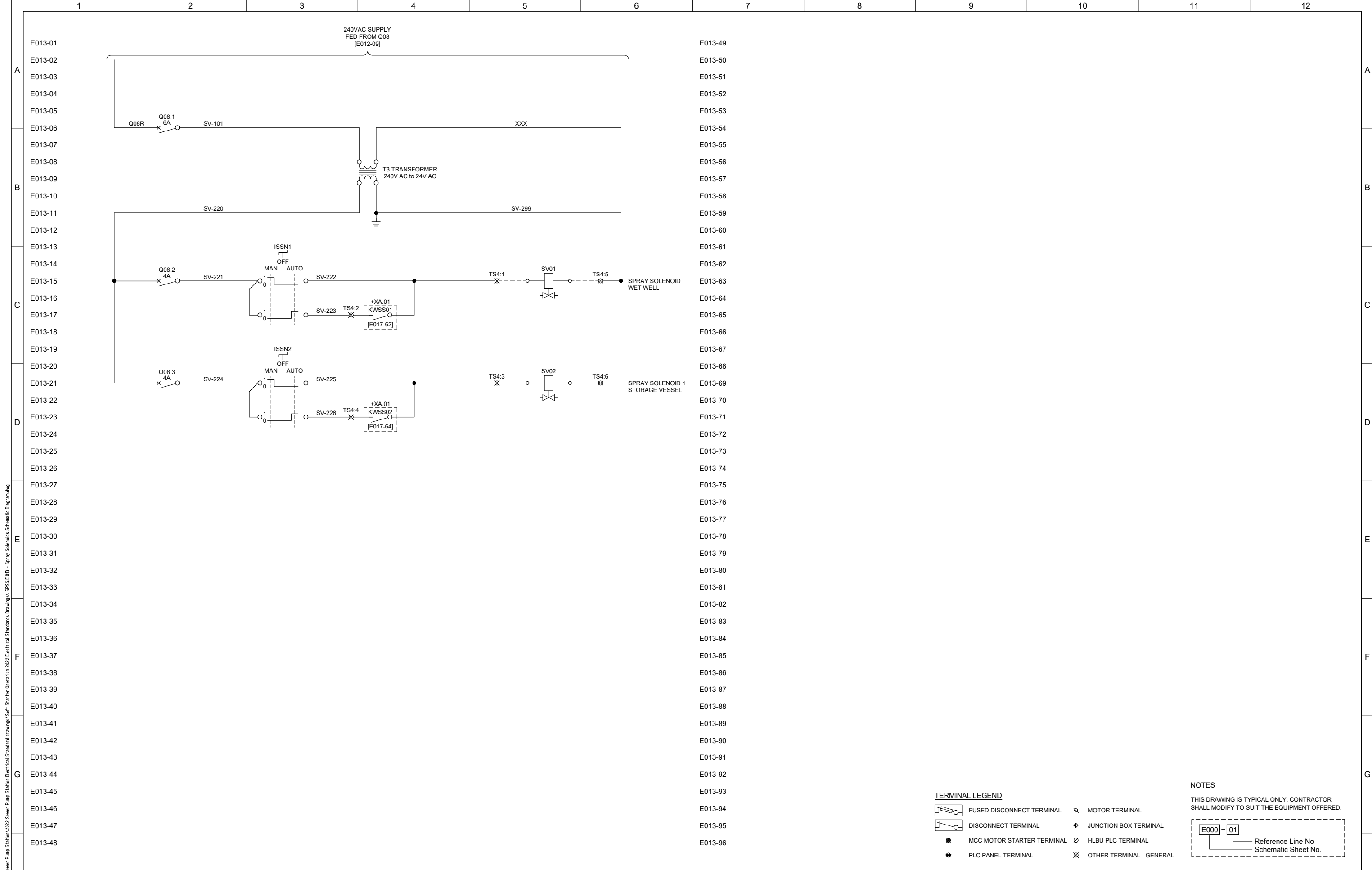
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TERMINAL LEGEND

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	DISCONNECT TERMINAL		JUNCTION BOX TERMINAL
	MCC MOTOR STARTER TERMINAL		HLBU PLC TERMINAL
	PLC PANEL TERMINAL		OTHER TERMINAL - GENERAL

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

Reference Line No
Schematic Sheet No.



CAD FILE NAME: C:\Michael's Backlog\11 - SP - Sewer Pump Station\2022 Sewer Pump Station Electrical Standards Drawings\SPSS.E.013 - Spray Solenoid Schematic Diagram.dwg

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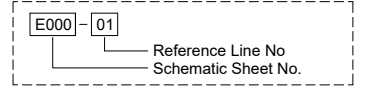
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TERMINAL LEGEND

- FUSED DISCONNECT TERMINAL
- DISCONNECT TERMINAL
- MCC MOTOR STARTER TERMINAL
- PLC PANEL TERMINAL
- MOTOR TERMINAL
- JUNCTION BOX TERMINAL
- HLBU PLC TERMINAL
- OTHER TERMINAL - GENERAL

NOTES

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REV	DESCRIPTION	JOB No	DRAFTER	DES. REVIEW	PM APP'D	DATE	VENDOR DRAWING No.
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DESIGNER	DRAFTER	SEW PROJECT MANAGER
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APPROVED		

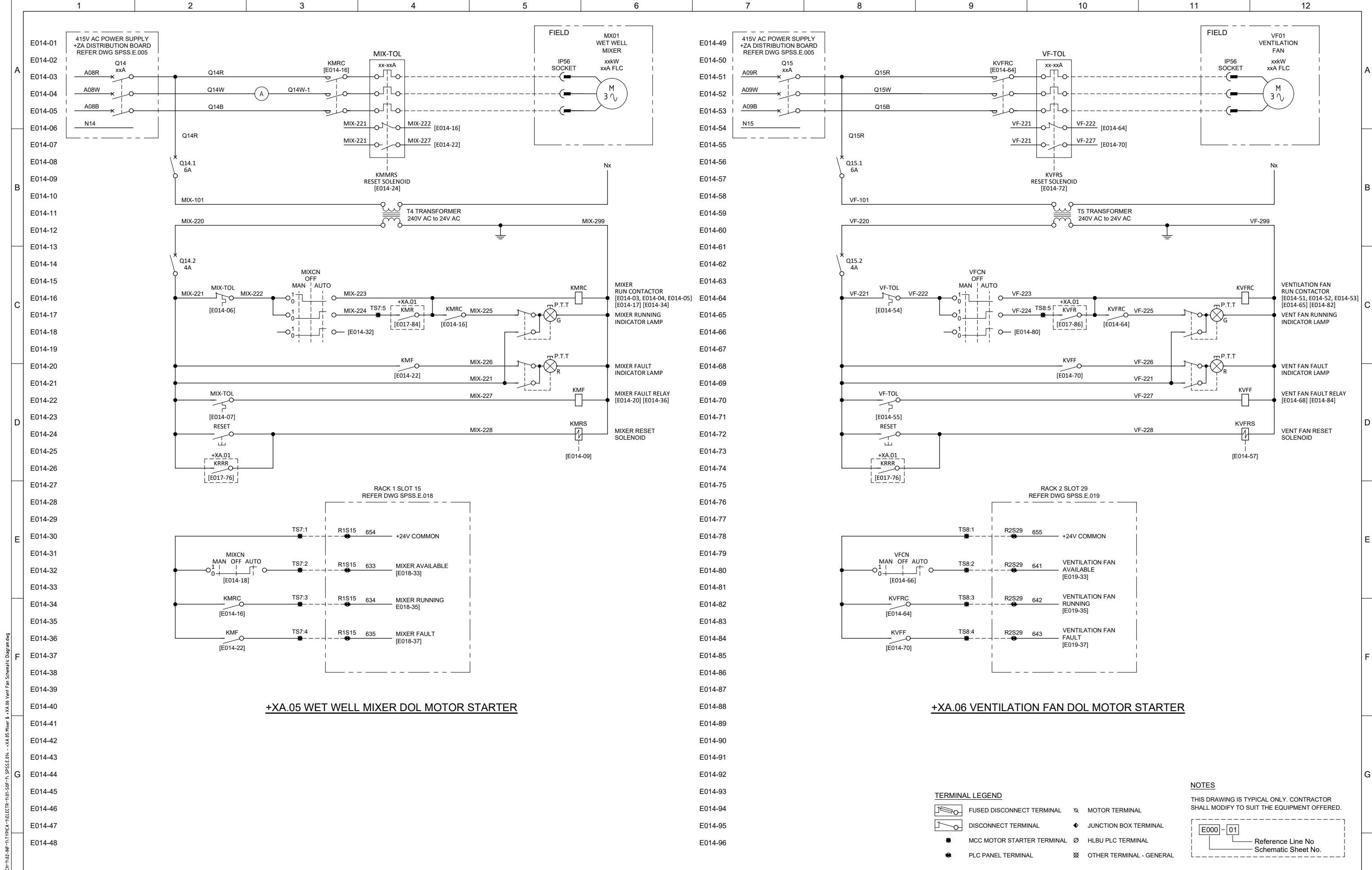
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**SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
SPRAY SOLENOIDS
SCHEMATIC DIAGRAM**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
SPSS.E.013	
SEW JOB No:	0
	REV



+XA.05 WET WELL MIXER DOL MOTOR STARTER

+XA.06 VENTILATION FAN DOL MOTOR STARTER

TERMINAL LEGEND

	FUSED DISCONNECT TERMINAL		MOTOR TERMINAL
	DISCONNECT TERMINAL		JUNCTION BOX TERMINAL
	MCC MOTOR STARTER TERMINAL		HLBU PLC TERMINAL
	PLC PANEL TERMINAL		OTHER TERMINAL - GENERAL

NOTES

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Reference Line No
Schematic Sheet No.

DESIGNER	M.LIM	2022	SEW PROJECT MANAGER
DESIGN REVIEW	DRAFT CHECK		ASSET/ENG. MANAGER
APPROVED			
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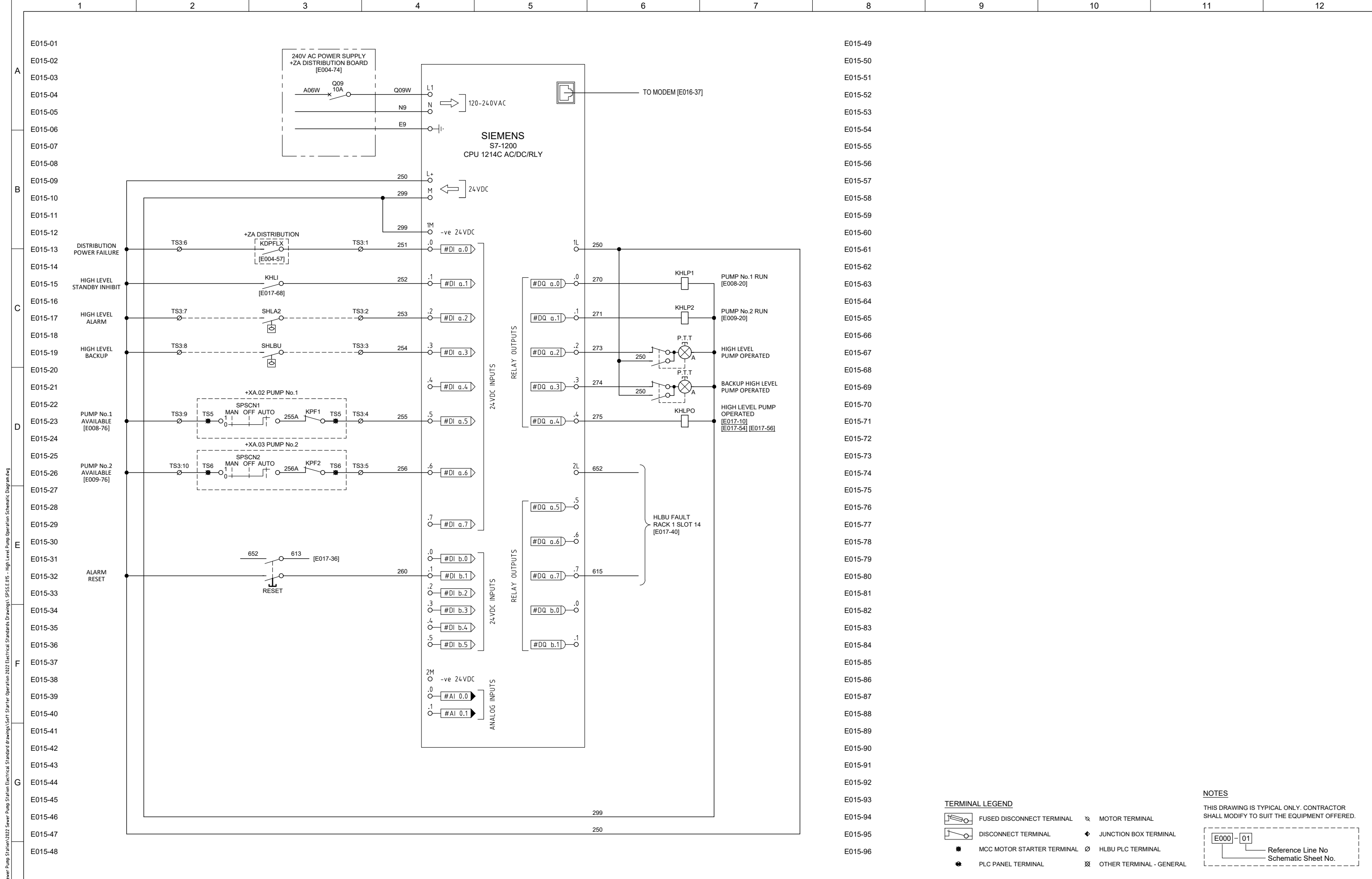
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**SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.05 MIXER & +XA.06 VENTILATION FAN
SCHEMATIC DIAGRAM**

DATUM:	
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 Plotted @ 05/9/2022 12:59pm by mlm

TERMINAL LEGEND

	FUSED DISCONNECT TERMINAL		MOTOR TERMINAL
	DISCONNECT TERMINAL		JUNCTION BOX TERMINAL
	MCC MOTOR STARTER TERMINAL		HLBU PLC TERMINAL
	PLC PANEL TERMINAL		OTHER TERMINAL - GENERAL

NOTES

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Reference Line No Schematic Sheet No.

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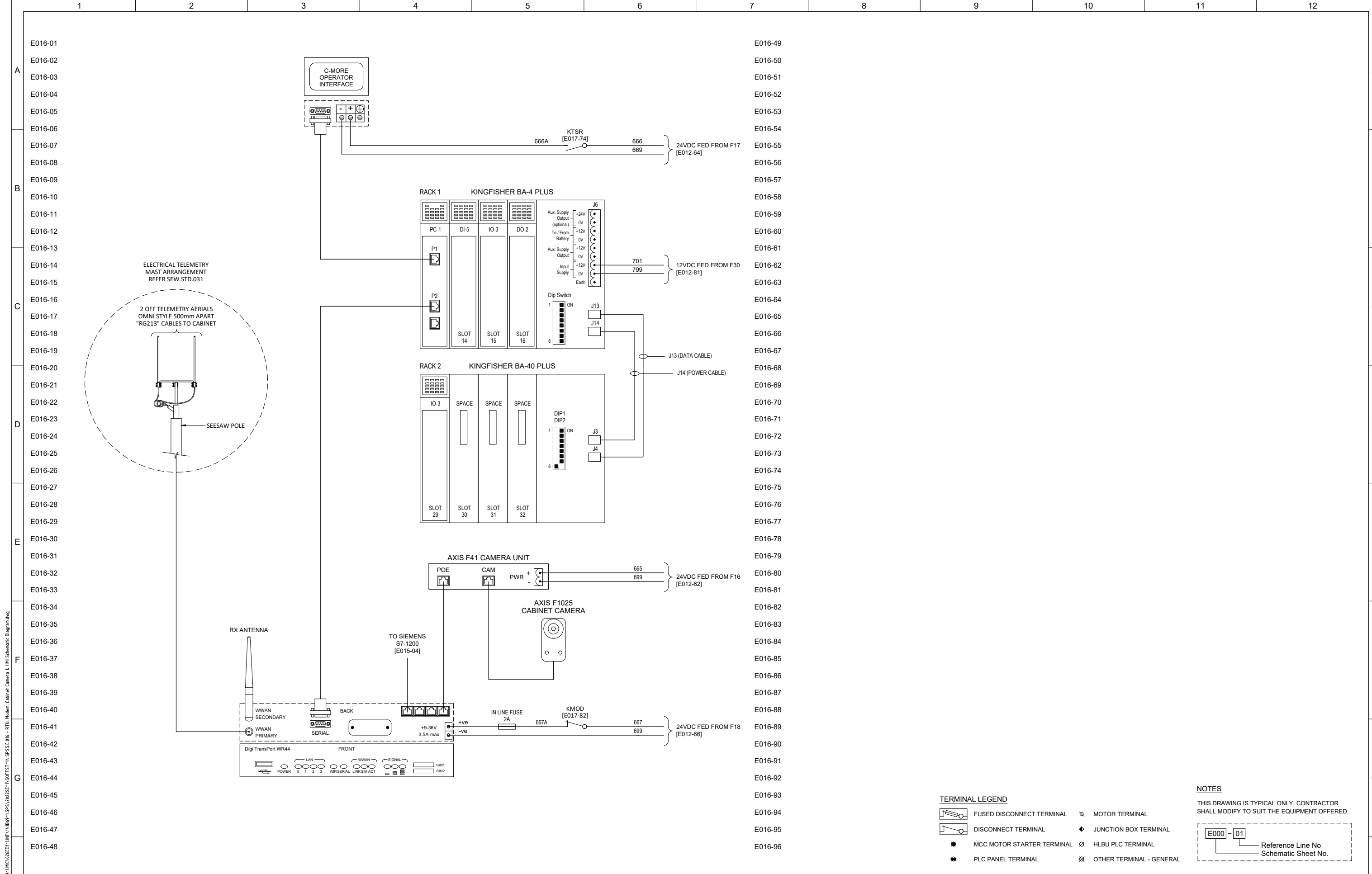
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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.01 HIGH LEVEL PUMP OPERATION
SCHEMATIC DIAGRAM

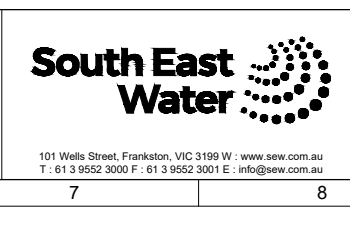
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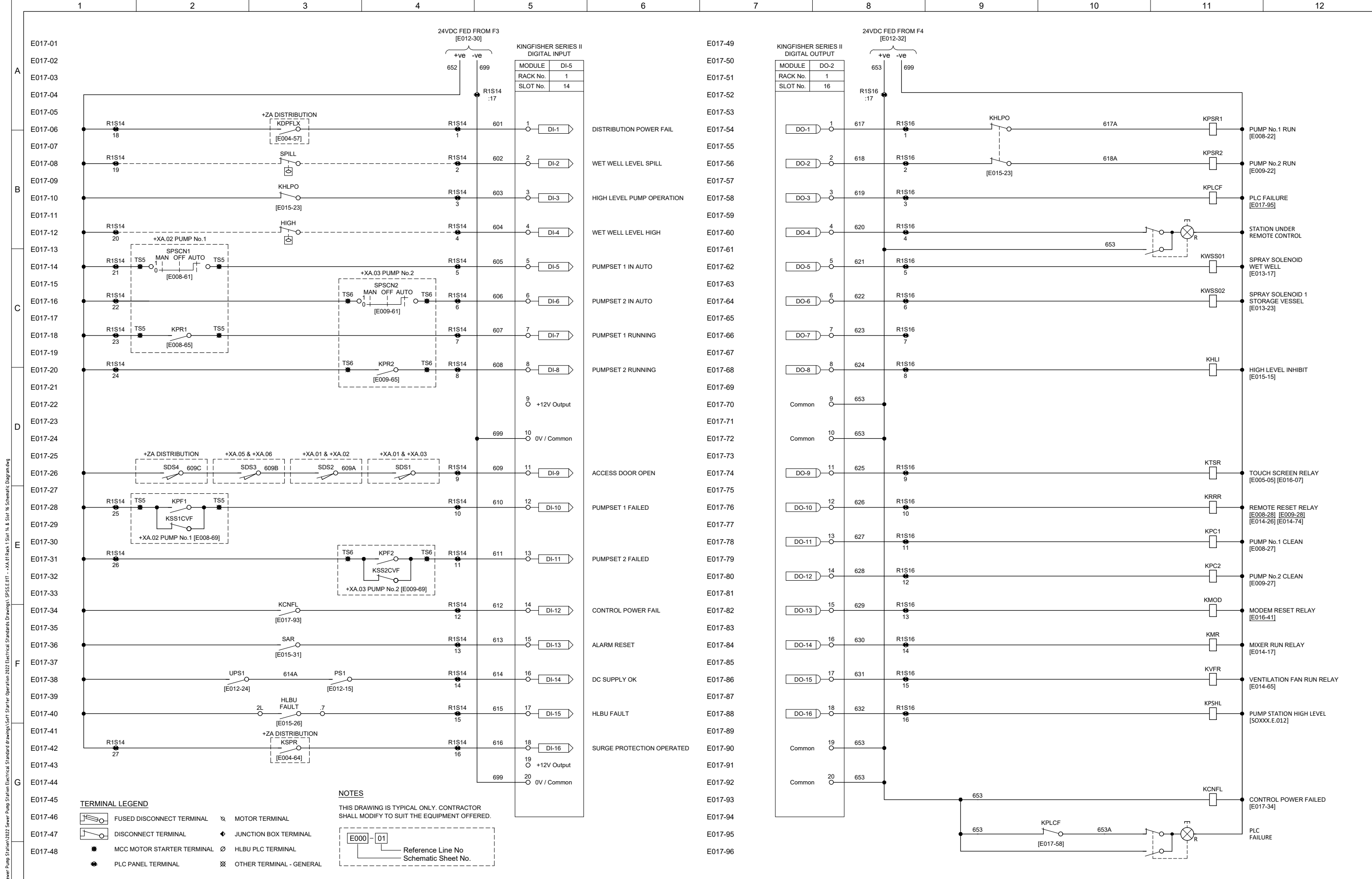
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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.01 RTU, MODEM, CABINET CAMERA & HMI
SCHEMATIC DIAGRAM

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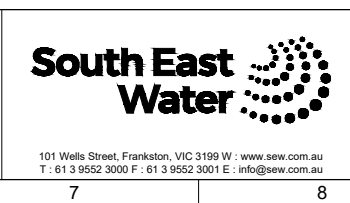


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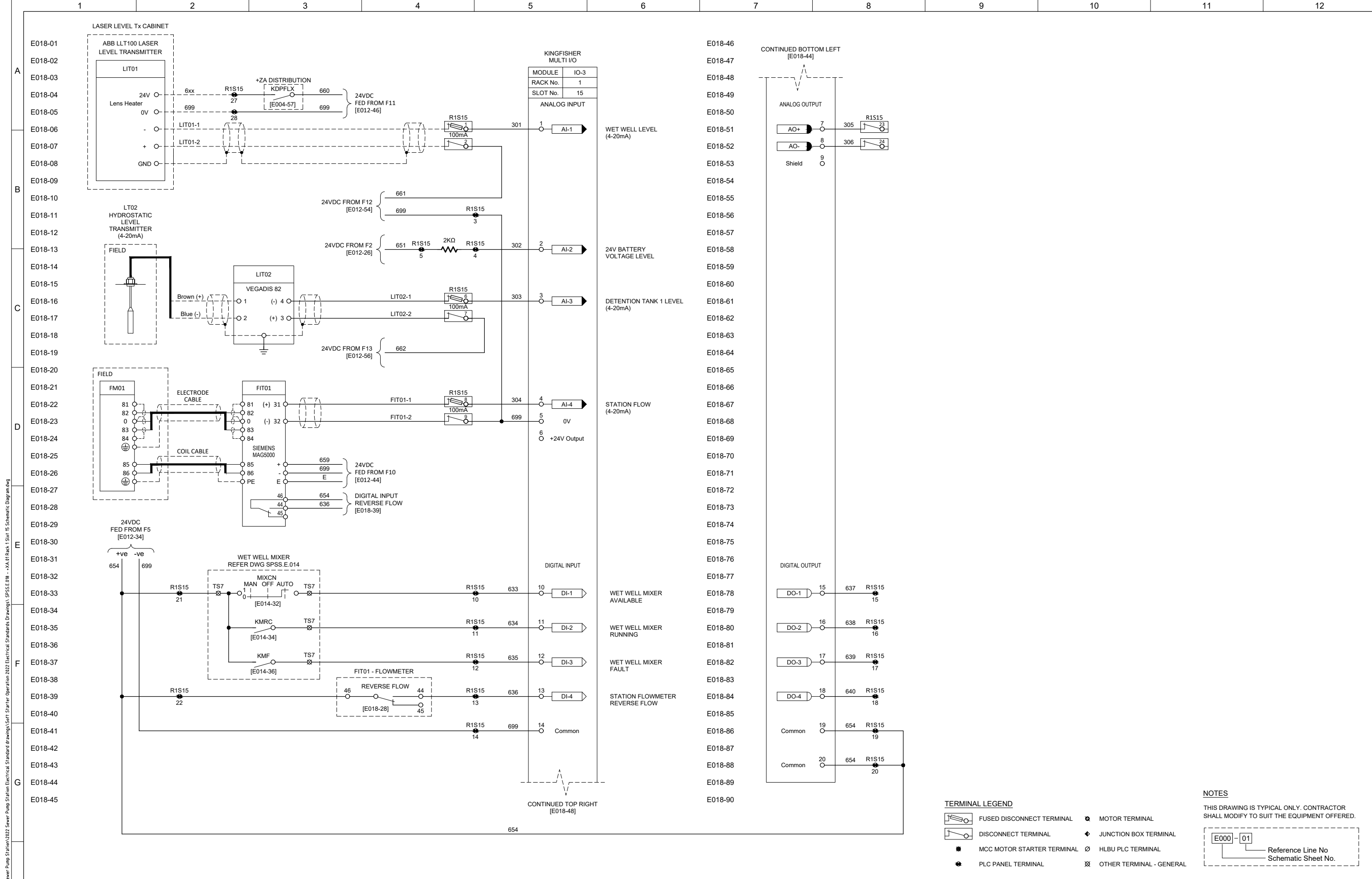
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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.01 RACK 1 SLOT 14 & SLOT 16
SCHEMATIC DIAGRAM

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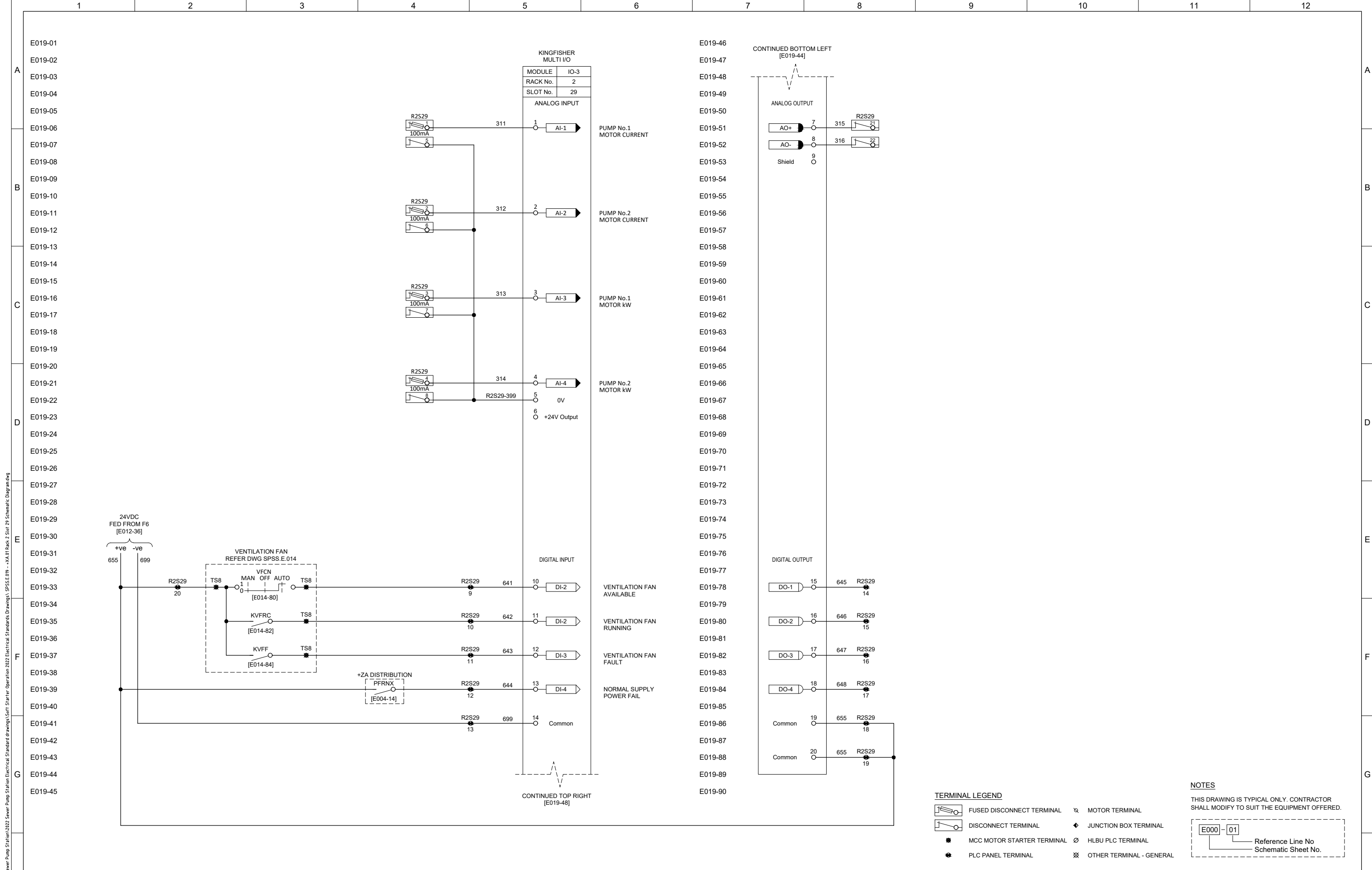
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M.LIM	M.LIM	
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APPROVED		

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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.01 RACK 1 SLOT 15
SCHEMATIC DIAGRAM

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DESIGNER	DRAFTER	SEW PROJECT MANAGER
M.LIM	2022	
DESIGN REVIEW	DRAFT CHECK	ASSET/ENG. MANAGER
APPROVED		

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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
+XA.01 RACK 2 SLOT 29
SCHEMATIC DIAGRAM

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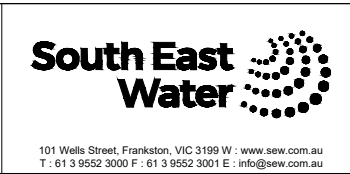
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				VENDOR DRAWING No:

DESIGNER	M.LIM	2022	SEW PROJECT MANAGER
DESIGN REVIEW	DRAFT CHECK		ASSET/ENG. MANAGER
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	M.LIM	
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DESIGN DRAWINGS STANDARDS
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MELWAY REF:	
SCALE:	SHEET SIZE: A1
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SEW JOB No:	0
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Plotted @ 05/9/2022 1:00pm by mlm

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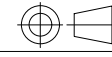
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DATUM:		
MELWAY REF:		
SCALE:	SHEET SIZE: A1	
SEW DRAWING NUMBER		
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SEW JOB No:	REV	

MAIN SWITCHBOARD CONSTRUCTION NOTES :

- SWITCHBOARD TO BE CONSTRUCTED FROM MARINE GRADE ALUMINIUM MINIMUM THICKNESS 3mm (H34 5005 GRADE)
ALL EXTERNAL WELDS SHALL BE CONTINUOUS FILLET WELDS
- SWITCHBOARD CONSTRUCTION TO FORM 3aih TO AS/NZS 3439.1 DEGREE OF PROTECTION IP56
- ALL INTERNAL DOORS, PANELS, ESCUTCHEONS, GEAR TRAYS FROM 3mm MILD STEEL

ALL INTERNAL DOORS & ESCUTCHEONS TO BE FITTED WITH M6 EARTH STUDS

ALL GEAR TRAYS TO BE REMOVABLE UNLESS OTHERWISE NOTED
- ALL EXTERIOR DOORS TO BE FITTED WITH :
 - HIGH DENSITY NEOPRENE SEALING STRIPS & ALUMINIUM RETAINING STRIPS
 - 100 x 40 x 20 RECESSED WELDED HANDLES - ALUMINIUM
 - DOOR STIFFENER
 - DOCUMENT HOLDER 280 x 280 x 60 (AS SHOWN)
- DOOR LOCKING :
 - INTERNAL DOORS - MINI 'T' HANDLE KEYED TO CL001 (½ TURN)
 - EXTERNAL DOORS
 - TOP LOCK - 100 NIGHTLATCH, ABLOY 201 CYLINDERS 5AP100 KEYING SYSTEM. M3 KEYS BY API SECURITY
 - BOTTOM LOCK - 213 DEADBOLT, ABLOY 201 CYLINDERS 5AP100 KEYING SYSTEM. M3 KEYS BY API SECURITY
 - TOP LOCK - 100 NIGHTLATCH, ABLOY 201 CYLINDERS VPIL KEYING SYSTEM. AA2445 KEYS SUPPLY AUTHORITY LOCK
 - BOTTOM LOCK - 213 DEADBOLT, ABLOY 201 CYLINDERS VPIL KEYING SYSTEM. AA2445 KEYS SUPPLY AUTHORITY LOCK
- DOORS HINGES : LENLOCK STAINLESS STEEL LIFT OFF TYPE. TOP HINGE PIN 5mm LONGER THAN OTHERS
- FIT ALL INTERNAL & EXTERNAL HINGED DOORS WITH STAINLESS STEEL DOOR STAYS (BOTTOM) TO SECURE IN THE OPEN POSITION.
ALL DOOR STAYS ARE TO BE ATTACHED TO THE SWITCHBOARD
- MINIMUM OPENING FOR ALL EXTERNAL DOORS 120°
- MINIMUM OPENING FOR ALL INTERNAL DOORS 105°
- ALL EXTERNAL LOUVRES TO BE PRESSED IN THE ALUMINIUM ARE TO BE FITTED WITH 'ORNAMESH' ALUMINIUM MESHING
- GLAND PLATES 3mm ALUMINIUM COLOUR MATCHED TO CABINET INTERNAL. NEOPRENE RUBBER SEAL TO BE FITTED ON LIP OF THE GLAND PLATES
- NO SWITCHBOARD EQUIPMENT SHALL BE INSTALLED ON EXTERNAL SIDE WALLS
- CUBICLE PLINTH - HOT DIPPED GALVANISED STEEL (75mm x 40mm x 5mm CHANNEL) TOE OUT ALL ROUND

PROVIDE 50mm x 65mm x 5mm PLATE WELDED ON EACH END (FRONT AND BACK) FOR RETAINMENT OF LIFTING ROD, BAR OR SLING
PROVIDE 50mm x 50mm x 5mm ANGLE CROSS BRACES
PROVIDE 100mm x 50mm ANCHOR (WITH 14mmØ ANCHOR HOLES) WELDED TO PLINTH
- OUTER DOORS TO BE FITTED WITH NEOPRENE RUBBER SEALS
- "WET" SECTION TO BE FULLY WELDED AND SEALED.


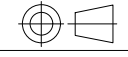
FINISH :

EXTERNAL : POWDER COATED RIVERGUM GREEN G62 TO AS2700 (GLOSS)

INTERNAL : ALL INNER SURFACES, INNER DOORS, ESCUTCHEONS, GEAR TRAYS AND MOUNTING PLATES POWDER COAT COLOUR - GLOSS WHITE N14

ALL POWDER COATING SHALL BE A MINIMUM THICKNESS OF 75 MICRONS

CAD FILE NAME: C:\Michael's Backlog\14 - SP - Sewer Pump Station\2022 Sewer Pump Station Electrical Standard Drawings\SPSS.E.030 - Main Switchboard Construction Notes.dwg

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LABEL SCHEDULE			LABEL SCHEDULE			LABEL SCHEDULE			LABEL SCHEDULE																	
LABEL	ENGRAVING	DESCRIPTION	LABEL	ENGRAVING	DESCRIPTION	LABEL	ENGRAVING	DESCRIPTION	LABEL	ENGRAVING	DESCRIPTION															
L1	DISTRIBUTION	STAINLESS STEEL LABEL (S/S RIVETS)	L27	DANGER HAZARDOUS VOLTAGE WITHIN LICENCED PERSONS ONLY	RED LABEL / WHITE TEXT FOR DRIVES AND LIVE EXPOSED BARS OR TERMINALS	L53	MAIN SWITCH NORMAL SUPPLY	WHITE LABEL / BLACK TEXT	L83	MAINS	WHITE LABEL / BLACK TEXT															
L2	STATION CONTROL	STAINLESS STEEL LABEL (S/S RIVETS)	L28	WARNING HAZARDOUS VOLTAGE WITHIN AUTHORISED PERSONS ONLY	RED LABEL / WHITE TEXT FOR IP2X SHARED POWERED CUBICLES	L54	MAIN SWITCH GENERATOR SUPPLY	WHITE LABEL / BLACK TEXT	L84	OFF	WHITE LABEL / BLACK TEXT															
L3	PUMP 1	STAINLESS STEEL LABEL (S/S RIVETS)	L29	HAZARD	YELLOW LABEL / BLACK LINES	L55	PHASE ROTATION METER	WHITE LABEL / BLACK TEXT	L85	GENERATOR	WHITE LABEL / BLACK TEXT															
L4	PUMP 2	STAINLESS STEEL LABEL (S/S RIVETS)	L30	WARNING THIS PREMISES CONTAINS AN ELECTRICITY GENERATION SYSTEM ISOLATE SUPPLY AT GENERATOR	GREEN LABEL / WHITE TEXT FOR PANELS WITH ONSITE GENERATORS INSTALLED	L56	VOLTMETER	WHITE LABEL / BLACK TEXT	L86	SURGE ARRESTOR	WHITE LABEL / BLACK TEXT															
L5	WET WELL MIXER	STAINLESS STEEL LABEL (S/S RIVETS)	L31	DANGER MULTIPLE SUPPLIES WITHIN ISOLATE ALL SUPPLIES BEFORE WORKING INSIDE THIS CUBICLE	RED LABEL / WHITE TEXT	L57	MEN LOCATED BEHIND DOOR	WHITE LABEL / BLACK TEXT	L87	DISTRIBUTION SUPPLY PHASE FAILURE	WHITE LABEL / BLACK TEXT															
L6	VENTILATION FAN	STAINLESS STEEL LABEL (S/S RIVETS)	L32	CAUTION PUMPS CAN BE REMOTELY STARTED VIA TELEMETRY SYSTEM ISOLATE BEFORE WORKING ON PUMPS OR STARTERS PUMPS MAY AUTO RESET	RED LABEL / WHITE TEXT	L58	PUMP 1 -Q04	WHITE LABEL / BLACK TEXT	L88	NORMAL SUPPLY PHASE FAILURE	WHITE LABEL / BLACK TEXT															
L7			L33	WARNING MEGGER TEST POINT ISOLATE BEFORE TESTING OR EQUIPMENT DAMAGE WILL OCCUR	RED LABEL / WHITE TEXT	L59	PUMP 2 -Q05	WHITE LABEL / BLACK TEXT	L89	MODEM	WHITE LABEL / BLACK TEXT															
L8			L34	TEST THIS SIDE	WHITE LABEL / BLACK TEXT	L60	DIST. PHASE FAILURE -Q06	WHITE LABEL / BLACK TEXT	L90	HLBU PLC	WHITE LABEL / BLACK TEXT															
L9	METERING	STAINLESS STEEL LABEL (S/S RIVETS)	L35	STATION CONTROL +XA01	WHITE LABEL / BLACK TEXT	L61	SURGE ARRESTOR -Q07	WHITE LABEL / BLACK TEXT	L91	STATION FLOW	WHITE LABEL / BLACK TEXT															
LABEL L10 <table border="1"> <tr> <td colspan="3">SOUTH EAST WATER LIMITED SPxxx xxx ADDRESS xxx EMERGENCY PHONE 132812</td> </tr> </table> <p>DIMENSIONS : 230Wmm x 80Hmm LABEL : STAINLESS STEEL (S/S RIVETS) TEXT : 10mm HIGH BLACK LETTERING ENGRAVED MOUNTING : 4 x 4mm DIAMETER MOUNTING HOLES DRILLED AS SHOWN</p> <table border="1"> <tr> <td>L11</td><td>HOSE REEL</td><td>STAINLESS STEEL LABEL (S/S RIVETS)</td> </tr> <tr> <td>L12</td><td>METERING CT CHAMBER</td><td>STAINLESS STEEL LABEL (S/S RIVETS)</td> </tr> <tr> <td>L13</td><td>SPARE</td><td>STAINLESS STEEL LABEL (S/S RIVETS)</td> </tr> <tr> <td>L14</td><td>xxA GENERATOR CONNECTION AUTHORISED PERSONNEL ONLY</td><td>STAINLESS STEEL LABEL (S/S RIVETS)</td> </tr> </table>			SOUTH EAST WATER LIMITED SPxxx xxx ADDRESS xxx EMERGENCY PHONE 132812			L11	HOSE REEL	STAINLESS STEEL LABEL (S/S RIVETS)	L12	METERING CT CHAMBER	STAINLESS STEEL LABEL (S/S RIVETS)	L13	SPARE	STAINLESS STEEL LABEL (S/S RIVETS)	L14	xxA GENERATOR CONNECTION AUTHORISED PERSONNEL ONLY	STAINLESS STEEL LABEL (S/S RIVETS)	L36	PUMP 1 +XA02	WHITE LABEL / BLACK TEXT	L62	STATION CONTROL -Q08	WHITE LABEL / BLACK TEXT	L92	DETENTION TANK 1 LEVEL	WHITE LABEL / BLACK TEXT
SOUTH EAST WATER LIMITED SPxxx xxx ADDRESS xxx EMERGENCY PHONE 132812																										
L11	HOSE REEL	STAINLESS STEEL LABEL (S/S RIVETS)																								
L12	METERING CT CHAMBER	STAINLESS STEEL LABEL (S/S RIVETS)																								
L13	SPARE	STAINLESS STEEL LABEL (S/S RIVETS)																								
L14	xxA GENERATOR CONNECTION AUTHORISED PERSONNEL ONLY	STAINLESS STEEL LABEL (S/S RIVETS)																								
			L37	PUMP 2 +XA03	WHITE LABEL / BLACK TEXT	L63	HLBU PLC -Q09	WHITE LABEL / BLACK TEXT																		
			L38		WHITE LABEL / BLACK TEXT	L64	CUBICLE LIGHTS -Q10	WHITE LABEL / BLACK TEXT																		
			L39	MIXER +XA05	WHITE LABEL / BLACK TEXT	L65	HEATER & FAN -Q11	WHITE LABEL / BLACK TEXT																		
			L40	VENT FAN +XA06	WHITE LABEL / BLACK TEXT	L66	GPOs -Q12	WHITE LABEL / BLACK TEXT																		
			L41	DISTRIBUTION +ZA	WHITE LABEL / BLACK TEXT	L67	FLOOD LIGHT -Q13	WHITE LABEL / BLACK TEXT																		
			L42	RESET RUNNING FAULT	WHITE LABEL / BLACK TEXT	L68	WET WELL MIXER -Q14	WHITE LABEL / BLACK TEXT																		
			L43	PUMP 1 SELECTOR	WHITE LABEL / BLACK TEXT	L69	VENTILATION FAN -Q15	WHITE LABEL / BLACK TEXT																		
			L44	PUMP 2 SELECTOR	WHITE LABEL / BLACK TEXT	L70																				
			L45	EXTERNAL FLOOD LIGHT	WHITE LABEL / BLACK TEXT	L71	AMMETER	WHITE LABEL / BLACK TEXT																		
			L46	PUMP 1 HOURS RUN	WHITE LABEL / BLACK TEXT	L72	ANTI-CONDENSATION HEATER	WHITE LABEL / BLACK TEXT																		
			L47	PUMP 2 HOURS RUN	WHITE LABEL / BLACK TEXT	L73	TRANSFORMER 240VAC / 24VAC	WHITE LABEL / BLACK TEXT																		
			L48	VENT FAN SELECTOR	WHITE LABEL / BLACK TEXT	L74	THERMOSTAT	WHITE LABEL / BLACK TEXT																		
			L49	MIXER SELECTOR	WHITE LABEL / BLACK TEXT	L75	NEUTRAL	WHITE LABEL / BLACK TEXT																		
			L50	WET WELL SOL SELECTOR	WHITE LABEL / BLACK TEXT	L76	EARTH	WHITE LABEL / BLACK TEXT																		
			L51	VESSEL SOL SELECTOR	WHITE LABEL / BLACK TEXT	L77	PS1	WHITE LABEL / BLACK TEXT																		
			L52	SPARE	WHITE LABEL / BLACK TEXT	L78	UPS1	WHITE LABEL / BLACK TEXT																		
			L53	ALARM RESET	WHITE LABEL / BLACK TEXT	L79	PS2	WHITE LABEL / BLACK TEXT																		
			L54	PLC FAILURE	WHITE LABEL / BLACK TEXT	L80	PS3	WHITE LABEL / BLACK TEXT																		
			L55	STATION UNDER REMOTE	WHITE LABEL / BLACK TEXT	L81	RACK 1	WHITE LABEL / BLACK TEXT																		
			L56	HIGH LEVEL PUMP OPERATED	WHITE LABEL / BLACK TEXT	L82	RACK 2	WHITE LABEL / BLACK TEXT																		
			L57	HIGH LEVEL BACKUP PUMP OPERATED	WHITE LABEL / BLACK TEXT																					
			L150																							

- NOTES :**
1. ALL EXTERNAL LABELS TO STAINLESS STEEL FIXED WITH STAINLESS STEEL RIVETS SEALED WITH SILICONE ADHESIVE.

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1	MINOR REVISION		M.L.			03.10.22
0	REDRAW 2022		M.L.			15.03.22

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South East Water

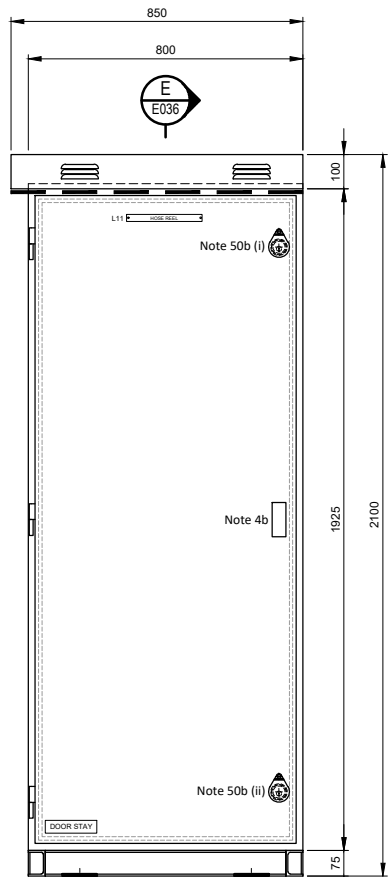
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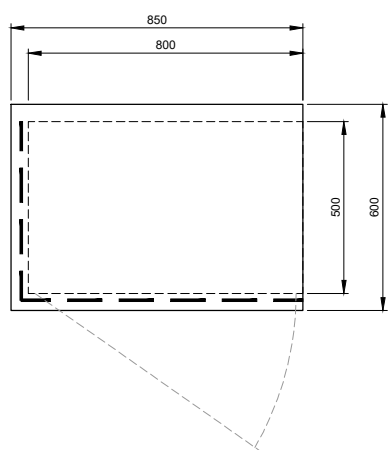
**SEWER PUMP STATION
 DESIGN DRAWINGS STANDARDS
 MAIN SWITCHBOARD
 LABEL SCHEDULE**

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SEW JOB No:	REV

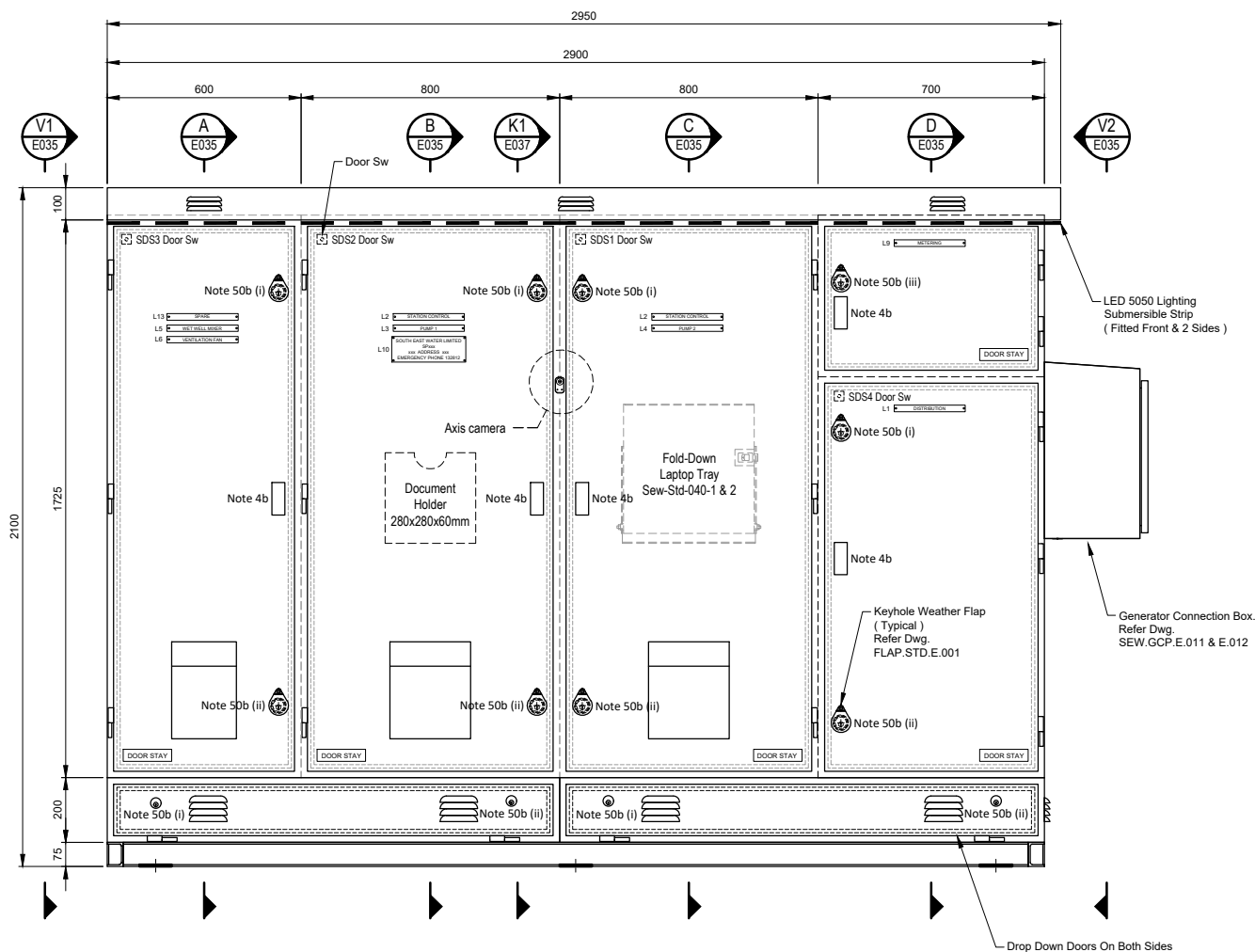
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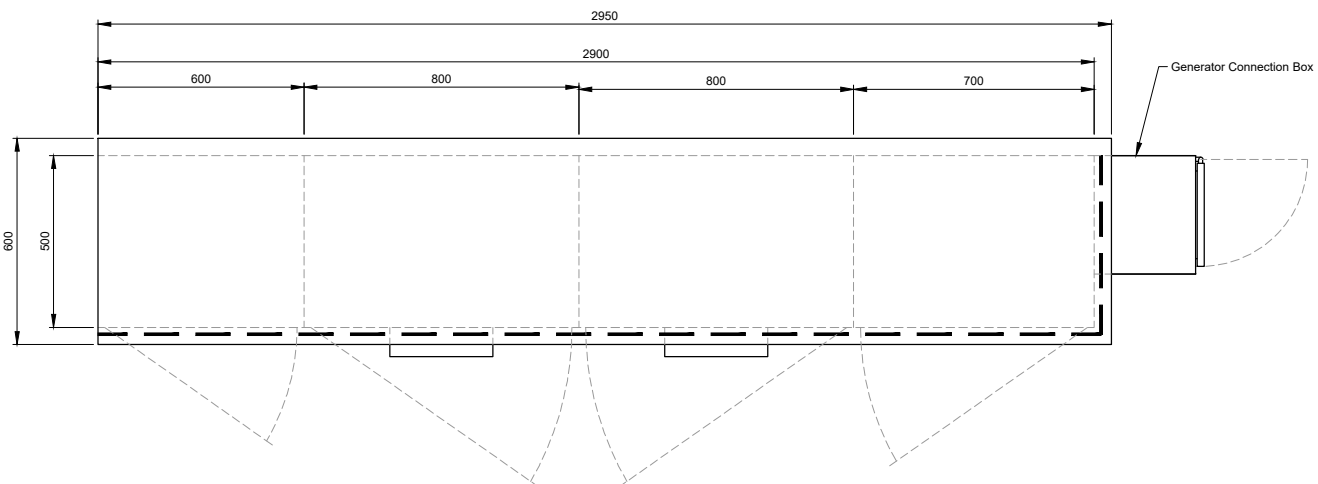
HOSE REEL CABINET - FRONT ELEVATION
(DOOR ON)



HOSE REEL CABINET - PLAN VIEW



MAIN SWITCHBOARD - FRONT ELEVATION
(DOORS ON)



MAIN SWITCHBOARD - PLAN VIEW

NOTES :
1. SWITCHBOARD CONSTRUCTION TO COMPLY WITH AS61439.

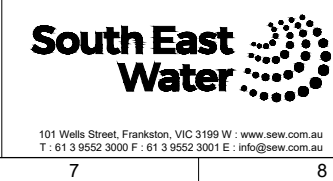
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0	REDRAW 2022		M.L.			15.03.22

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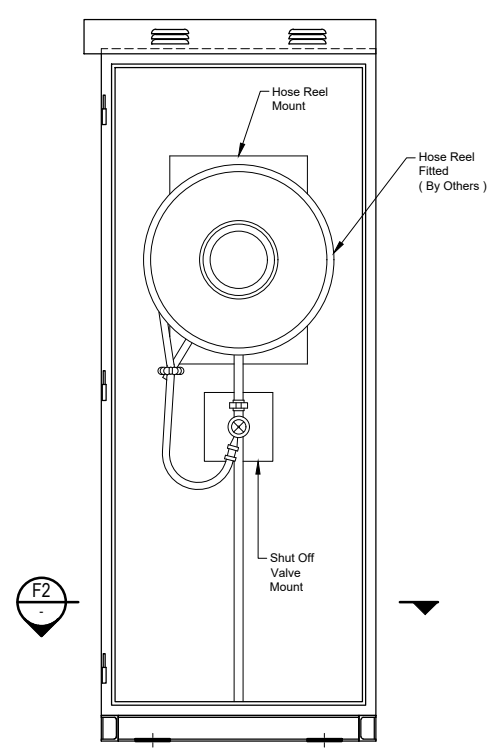
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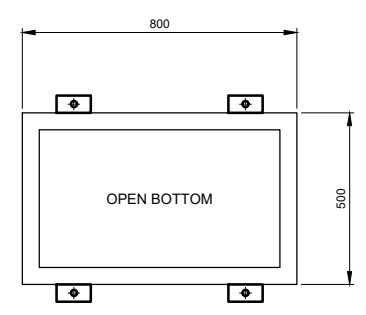
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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
MAIN SWITCHBOARD GENERAL ARRANGEMENT
SHEET 1 OF 11

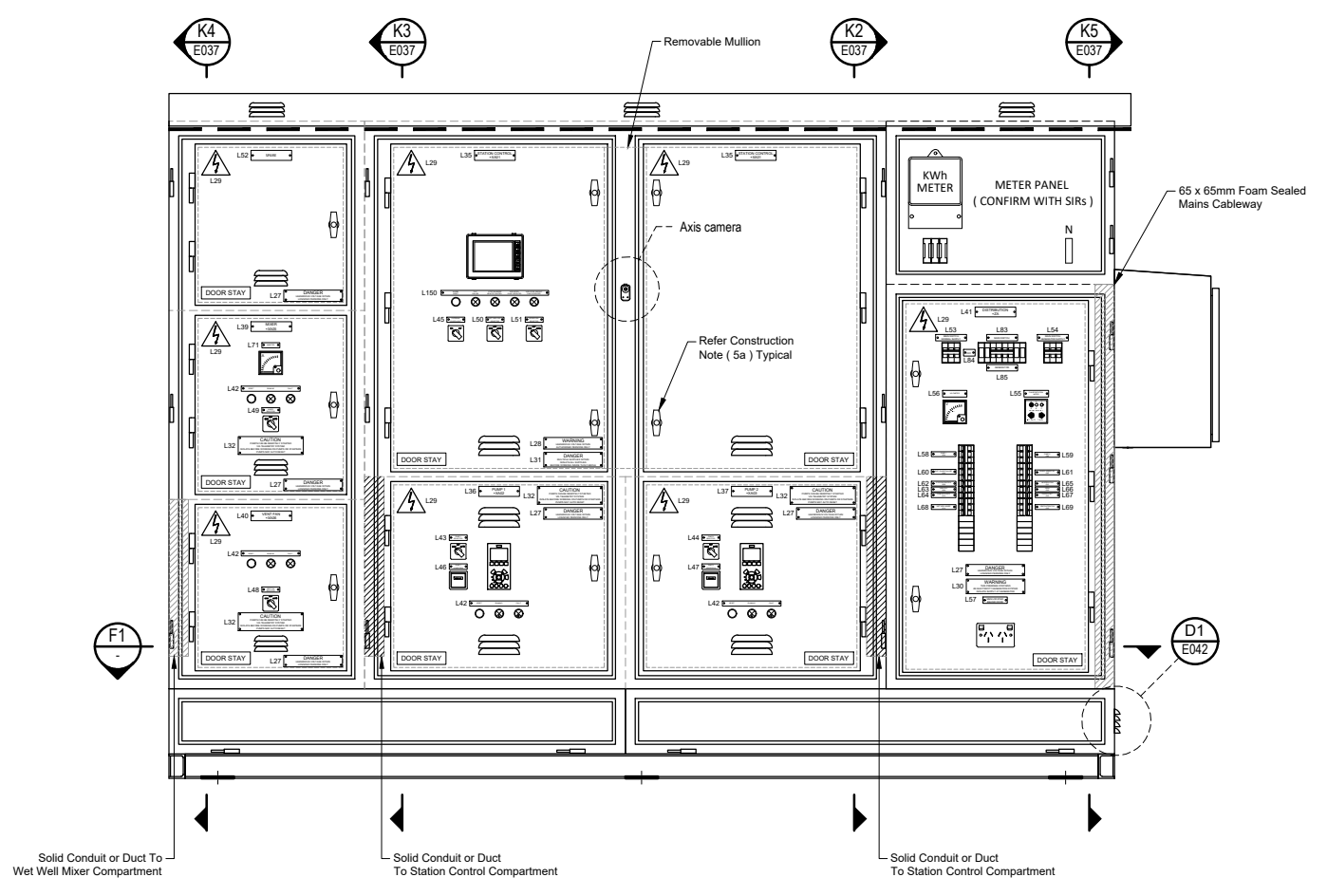
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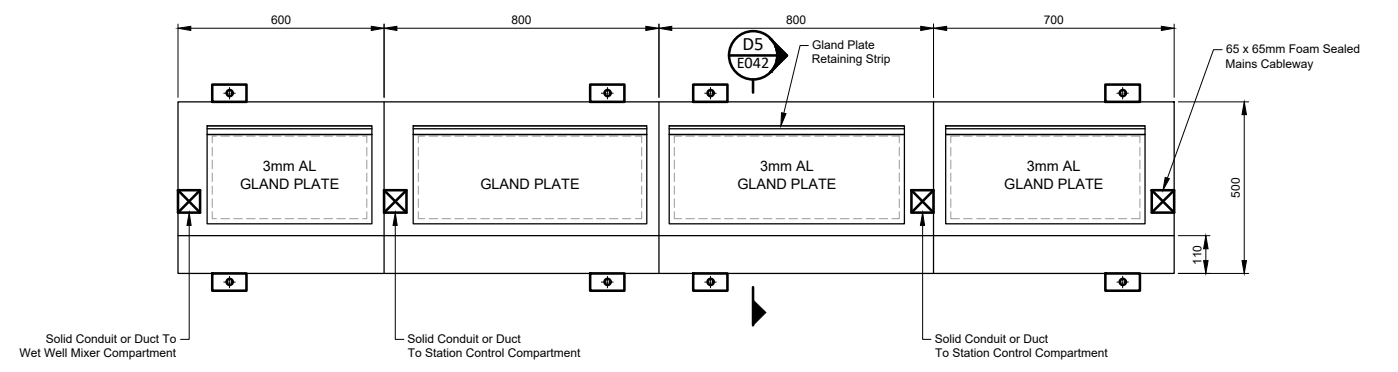
HOSE REEL CABINET - FRONT ELEVATION
(DOOR REMOVED)



SECTION F2



MAIN SWITCHBOARD - FRONT ELEVATION
(OUTER DOORS REMOVED)



SECTION F1

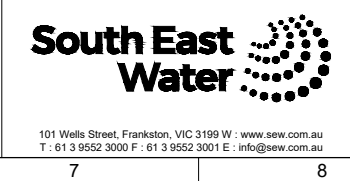
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0	REDRAW 2022		M.L.			15.03.22

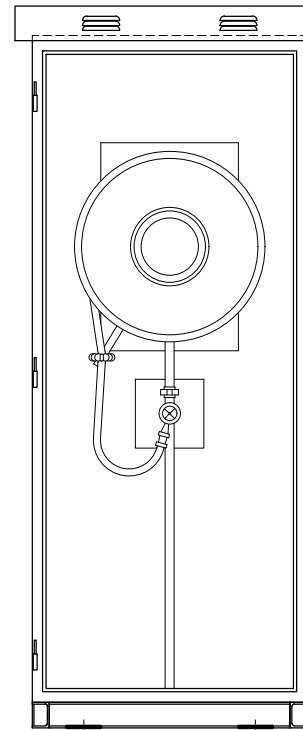
DESIGNER	M.LIM	2022	SEW PROJECT MANAGER
DESIGN REVIEW	DRAFT CHECK		ASSET/ENG. MANAGER
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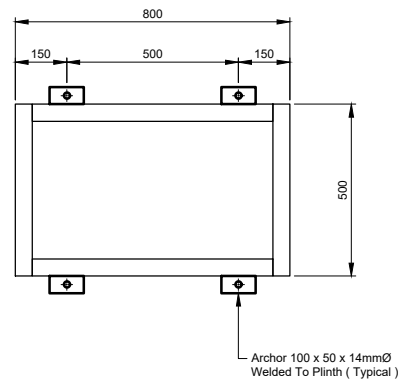


SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
MAIN SWITCHBOARD GENERAL ARRANGEMENT
SHEET 2 OF 11

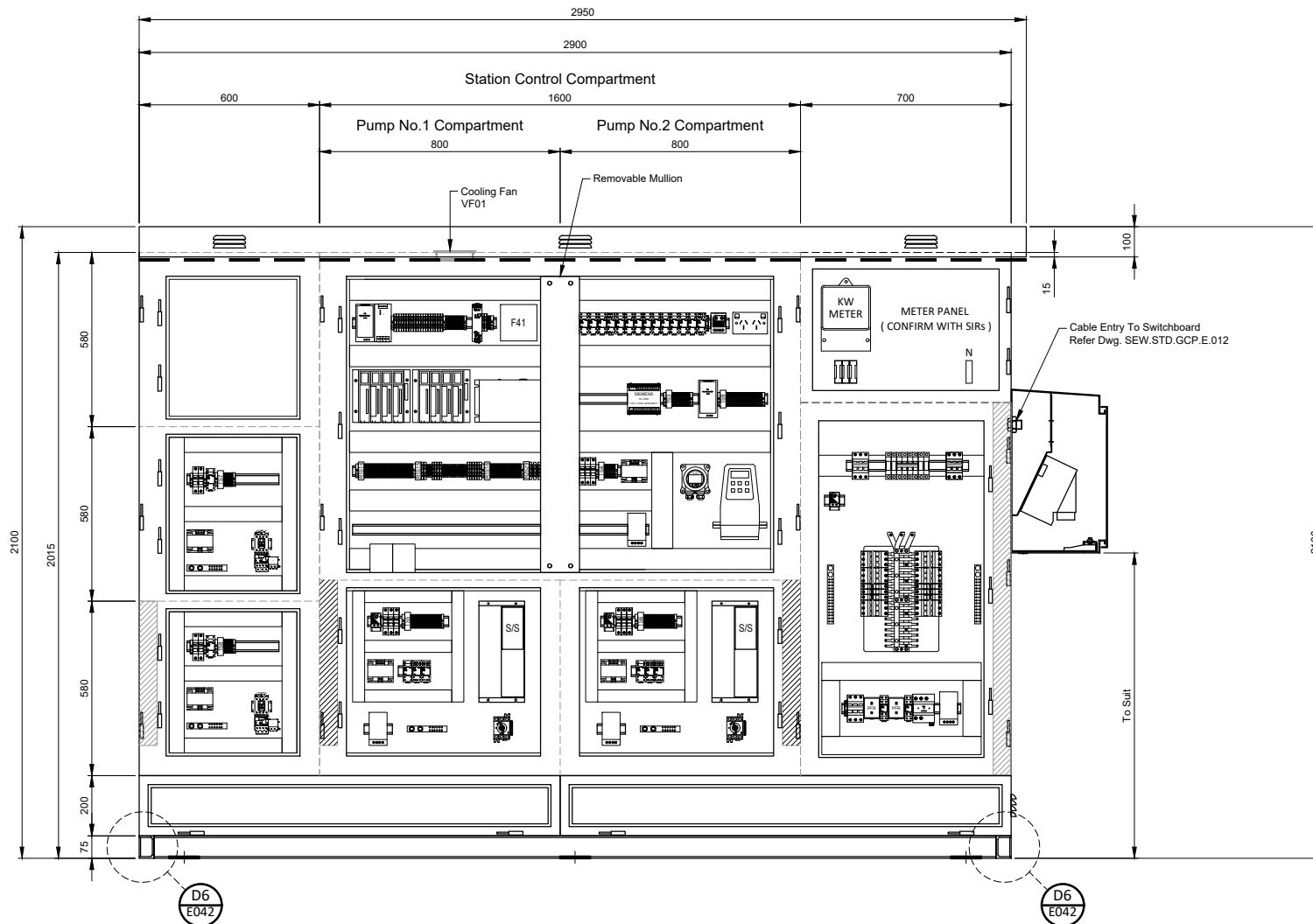
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SEW JOB No:	1
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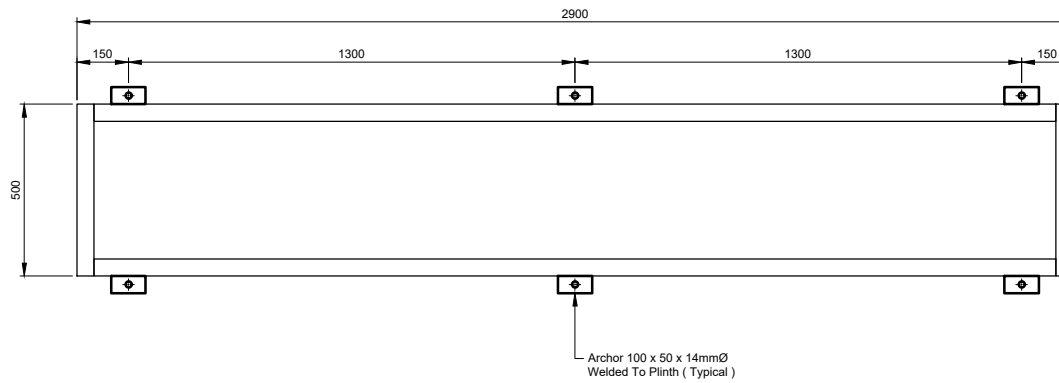
HOSE REEL CABINET - FRONT ELEVATION
(DOOR REMOVED)



HOSE REEL CABINET PLINTH - PLAN VIEW



MAIN SWITCHBOARD - FRONT ELEVATION
(ALL DOORS & OUTER WALL REMOVED FOR CLARITY)



MAIN SWITCHBOARD PLINTHS - PLAN VIEW

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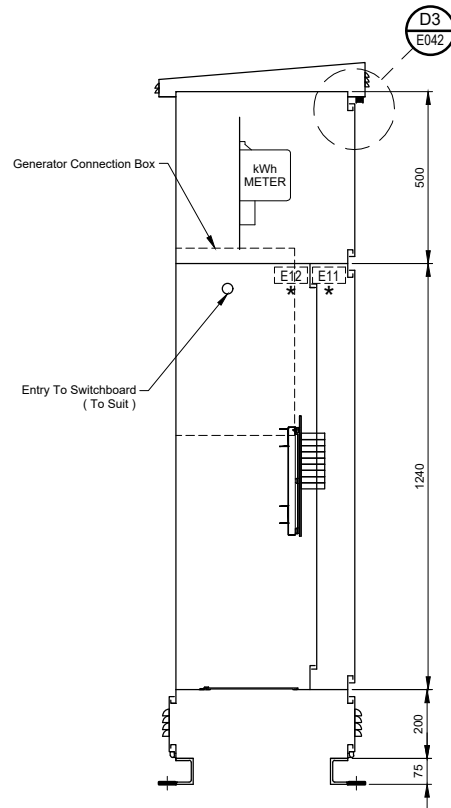


SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
MAIN SWITCHBOARD GENERAL ARRANGEMENT
SHEET 3 OF 11

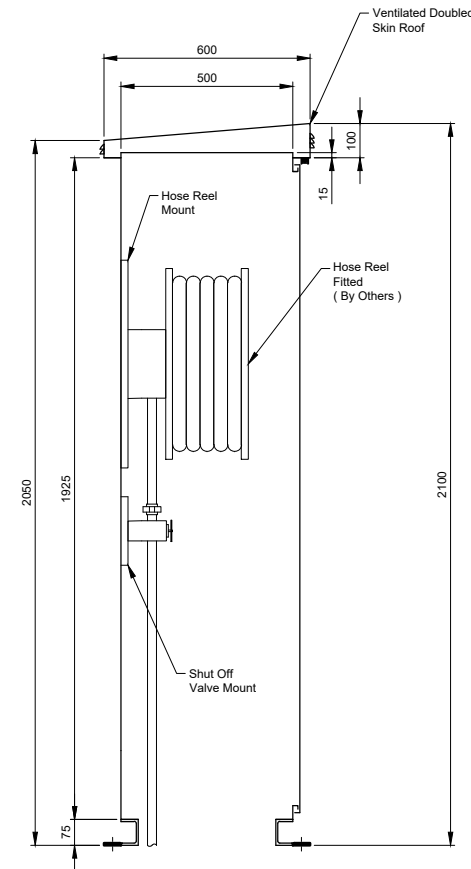
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CAD FILE NAME: X:\DRAWING\103-EL-1\10399-1\10399-1\10399-1\10399-1\SPSS.E.034 - Main Switchboard General Arrangement_Sht 3 of 11.dwg

* CUBICLE DOOR LIGHTING (SPSS.E.005)



SECTION **D**
Metering Panel
+ZA Distribution



SECTION **E**
Hose Reel Cabinet

NOTES

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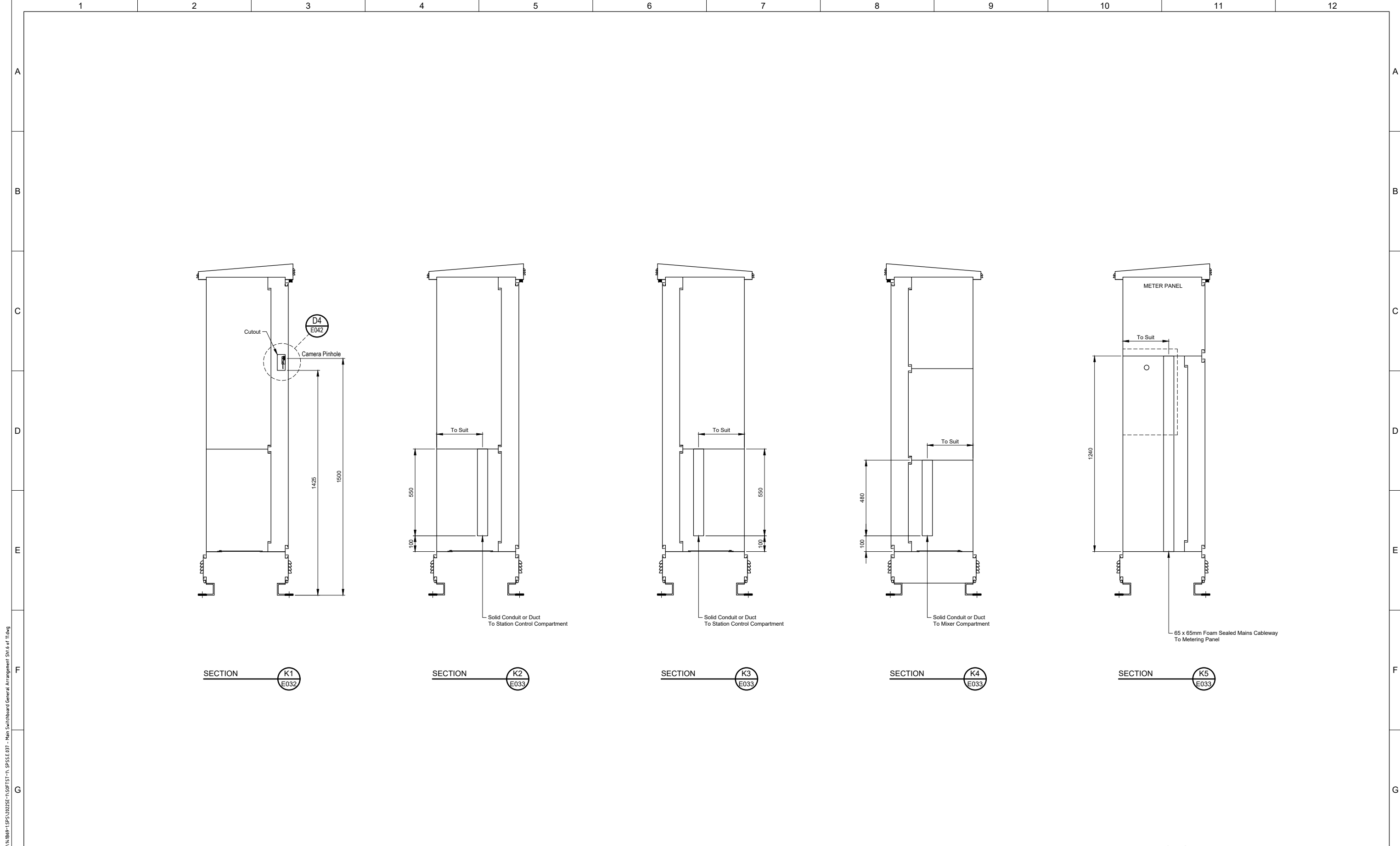


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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
MAIN SWITCHBOARD GENERAL ARRANGEMENT
SHEET 5 OF 11

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
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Plotted @ 05/9/2022 10:1pm by mlm



NOTES
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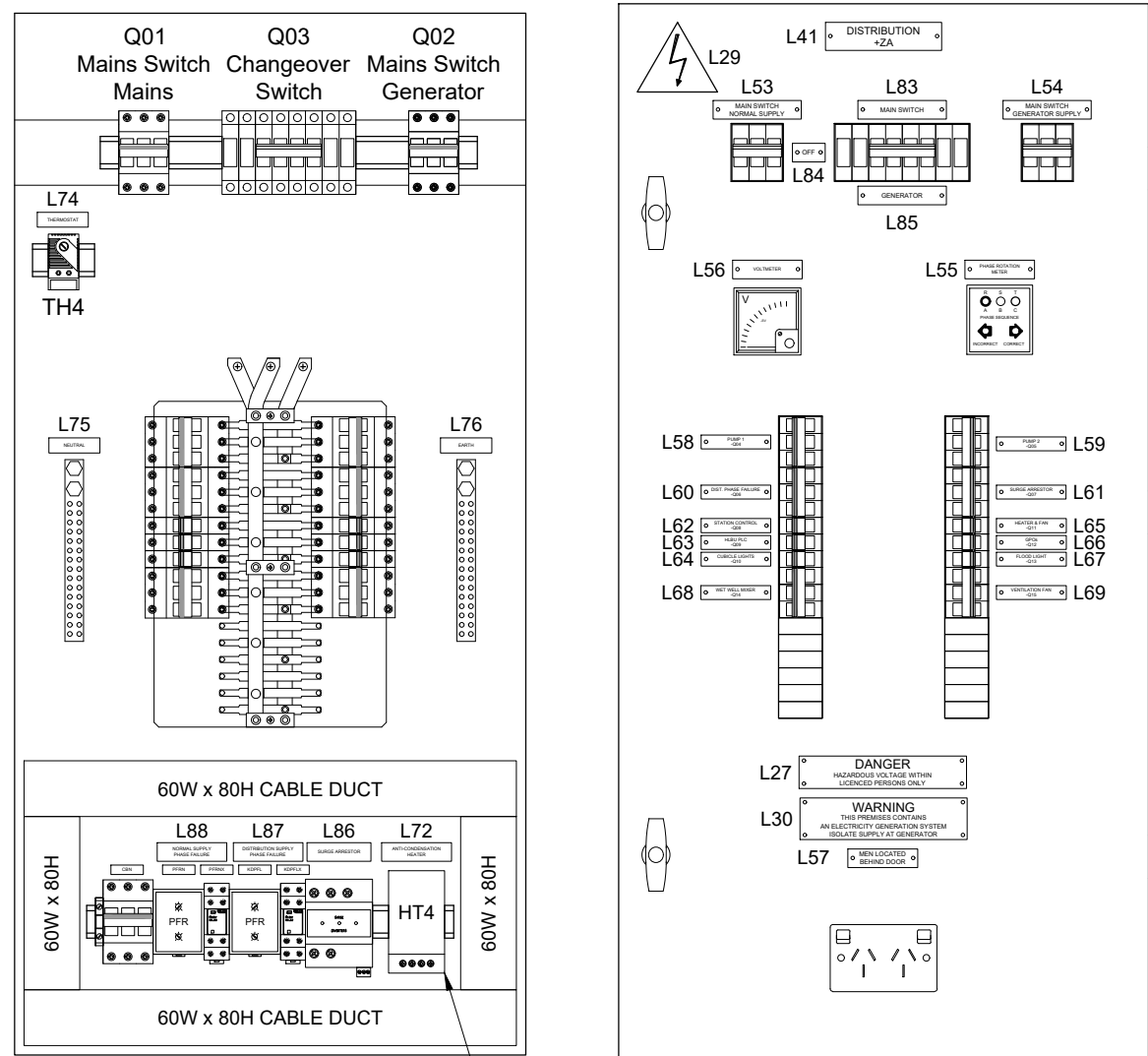
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	M.LIM	
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**SEWER PUMP STATION
 DESIGN DRAWINGS STANDARDS
 MAIN SWITCHBOARD GENERAL ARRANGEMENT
 SHEET 6 OF 11**

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
SPSS.E.037	
SEW JOB No:	REV
	1



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

+ZA Power Distribution
Door & Gear Tray Details (N.T.S)

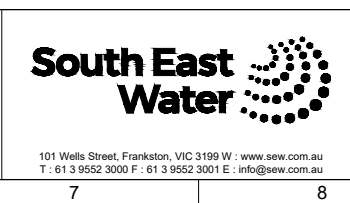
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 Plotted @ 03/10/2022 10:02am by mlm

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0	REDRAW 2022		ML			15.03.22

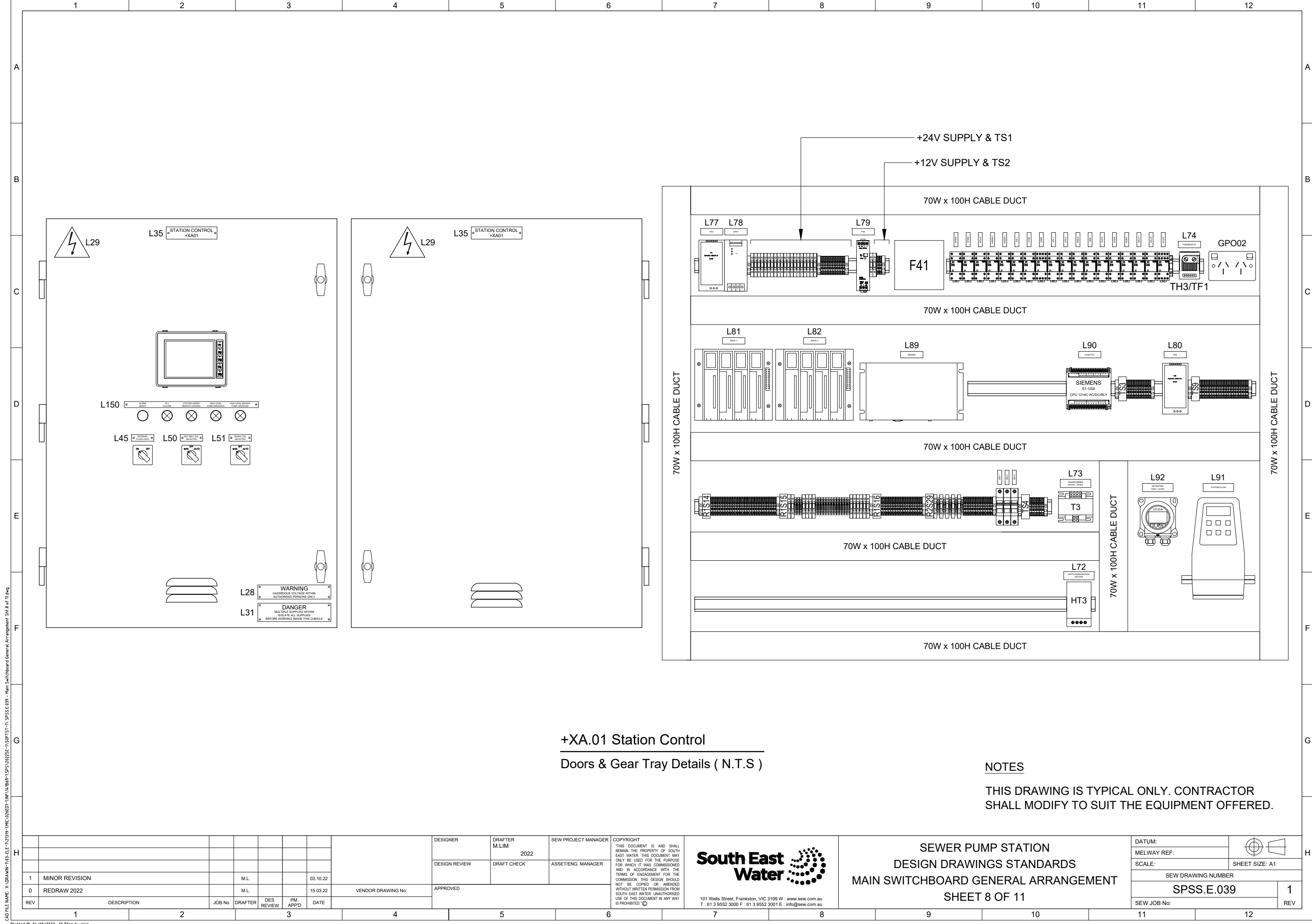
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SEWER PUMP STATION
 DESIGN DRAWINGS STANDARDS
 MAIN SWITCHBOARD GENERAL ARRANGEMENT
 SHEET 7 OF 11

DATUM:	
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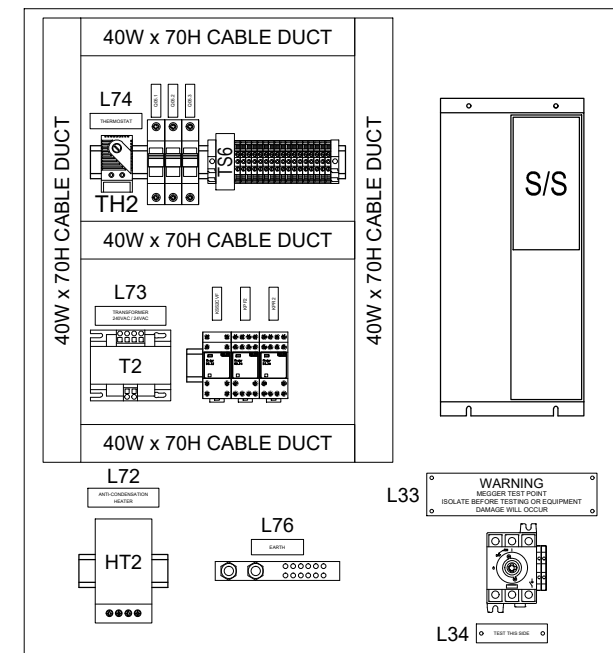
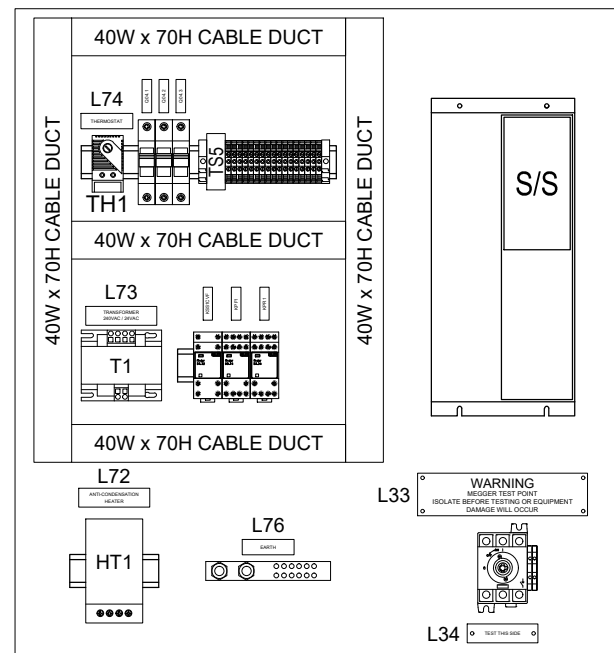
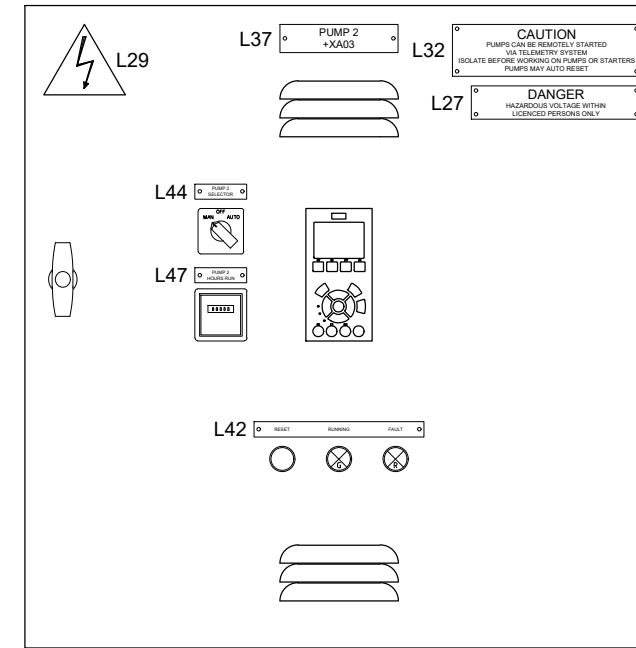
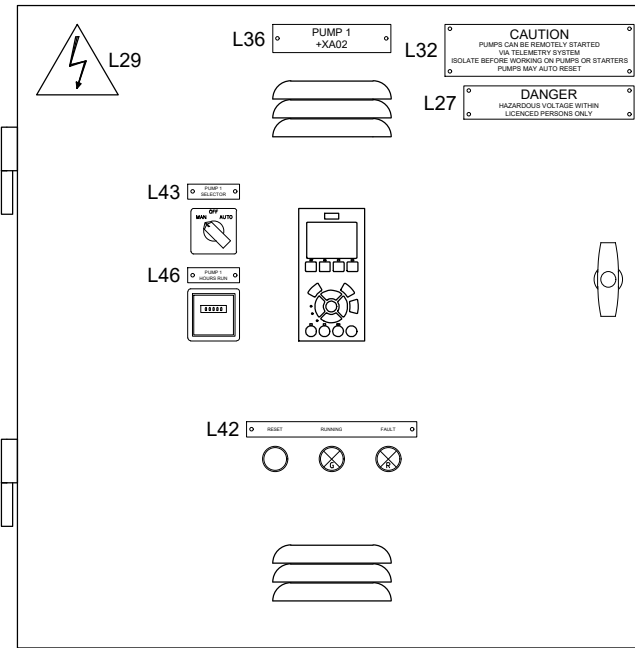


+XA.01 Station Control
Doors & Gear Tray Details (N.T.S)

NOTES
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 Plotter @ 04/10/2022 12:37pm by mlm



+XA.02 Pump No.1
Door & Gear Tray Details (N.T.S)

+XA.03 Pump No.2
Door & Gear Tray Details (N.T.S)

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REV	DESCRIPTION	JOB No	DRAFTER	DES. REVIEW	PM APP'D	DATE
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0	REDRAW 2022			M.L.		15.03.22

DESIGNER	DRAFTER	SEW PROJECT MANAGER
M.LIM	M.LIM	
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APPROVED		

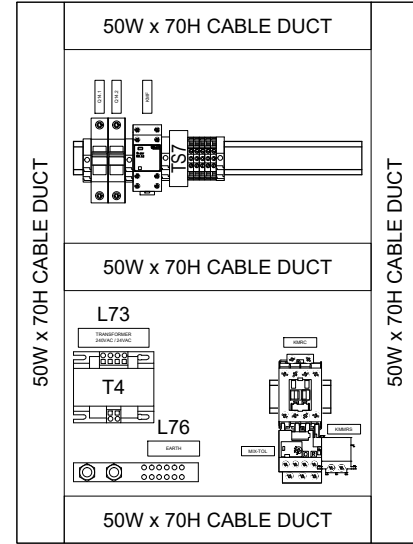
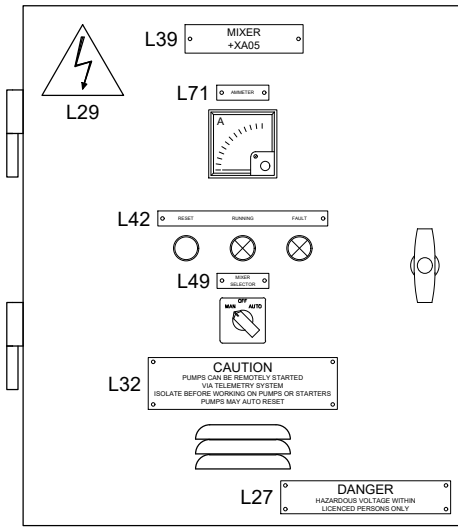
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South East Water

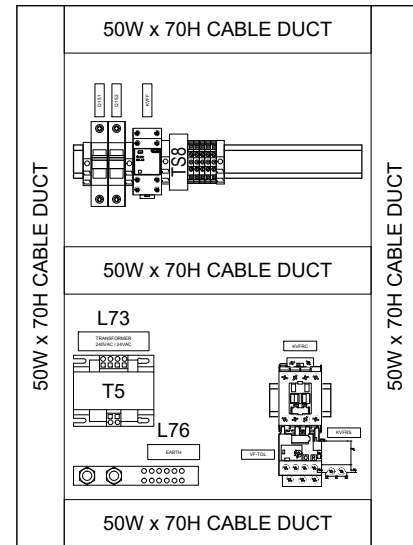
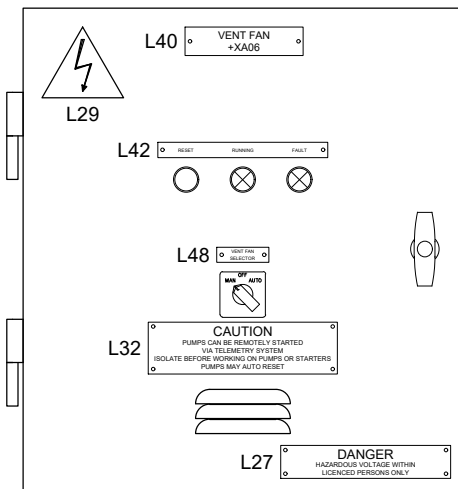
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SEWER PUMP STATION
DESIGN DRAWINGS STANDARDS
MAIN SWITCHBOARD GENERAL ARRANGEMENT
SHEET 9 OF 11

DATUM:	
MELWAY REF:	
SCALE:	SHEET SIZE: A1
SEW DRAWING NUMBER	
SPSS.E.040	
SEW JOB No:	1
REV	



Wet Well Mixer
Door & Gear Tray Details (N.T.S)



Ventilation Fan
Door & Gear Tray Details (N.T.S)

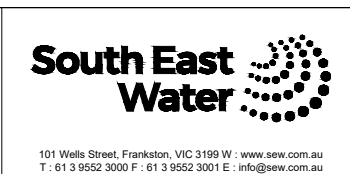
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	M.LIM	
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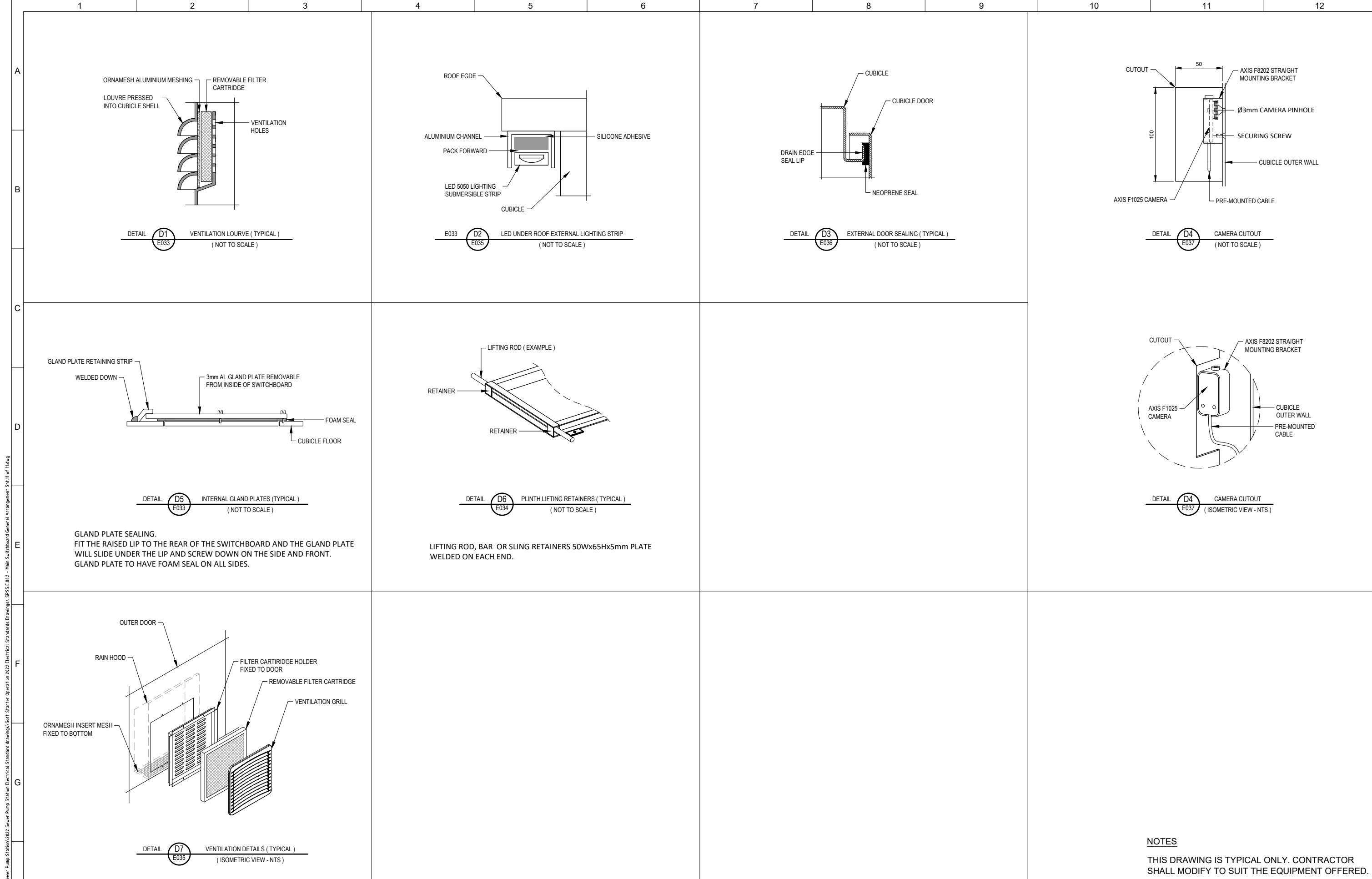
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DESIGN DRAWINGS STANDARDS
MAIN SWITCHBOARD GENERAL ARRANGEMENT
SHEET 10 OF 11

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GLAND PLATE SEALING.
 FIT THE RAISED LIP TO THE REAR OF THE SWITCHBOARD AND THE GLAND PLATE WILL SLIDE UNDER THE LIP AND SCREW DOWN ON THE SIDE AND FRONT. GLAND PLATE TO HAVE FOAM SEAL ON ALL SIDES.

NOTES
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