

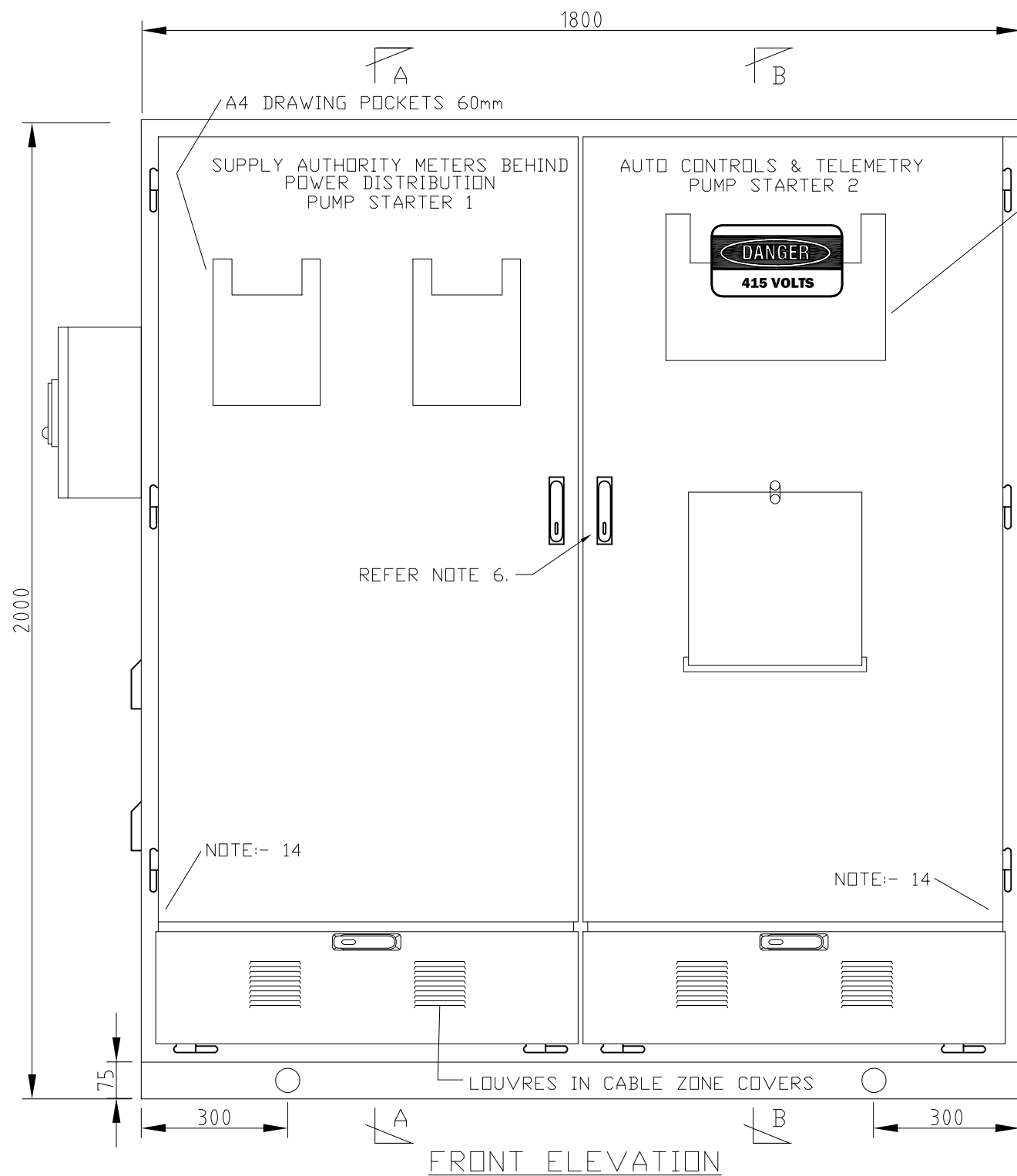
CHELSEA GARDENS SEWER PUMP STATION

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Client		
PRIME MOSS VALE PTY LTD		
Project		
CHELSEA GARDENS SEWER PUMP STATION		
Drawn	S. SHOKRAVI	Date
Designed	D. PRIDHAM	18.18.2020
Checked	P. PRIDHAM	Size A3
Title		
ELECTRICAL DETAILS		
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45x45 FOLDED BRACKET FULL DEPTH
ENDS CLOSED WELDED TO RIGHT SIDE

CONSTRUCTION NOTES:

1. SCA SHALL BE CONSTRUCTED FROM 3.0mm MARINE GRADE ALUMINIUM.
2. ENCLOSURE TO HAVE DEGREE OF PROTECTION RATING OF IP56 TO AS1939-1990.
3. FORM OF SEGREGATION OF ASSEMBLY IS FORM 2BI TO AS1136.1.
4. CABINET TO BE POWDER COATED WILDERNESS GREEN INTERIOR & EXTERIOR. INNER DOORS TO BE POWDER COATED GLOSS WHITE.
5. EQUIPMENT PANELS 3mm MILD STEEL AND PAINTED GLOSS WHITE.
6. EXTERIOR DOORS TO BE FITTED WITH STAINLESS SELECTRIX, 3 POINT LATCHING WITH ROLER ENDS AND FITTED PADLOCKING FACILITIES. DOORS TO BE HINGED ON CHROME PLATED BRASS LIFT OFF PIN HINGES WITH STAINLESS STEEL PIN HINGES-EXTERNAL.
7. INNER DOORS SHALL BE ALUMINIUM, FITTED WITH 'T' TYPE LOCKING HANDLES AND PINTLE TYPE HINGES.
8. PLINTH TO BE 75x50mm HOT DIPPED GALVANISED STEEL CHANNEL. THE PLINTH FLANGES SHALL FACE INWARD. A NEOPRENE OR SIMILAR MEDIUM SHALL BE PLACED BETWEEN THE PLINTH AND CABINET TO PREVENT ELECTROLYSIS REACTION.
9. PLINTH TO HAVE 2 OFF 50mm DIA. HOLES FOR LIFTING PIPE. WELDED PIPE THROUGH HOLES.
10. GLAND PLATES TO BE ALUMINIUM AND 5mm THICK.
11. INSULATION BUSHES TO BE FITTED AROUND ALL CUTOUTS.
12. POWER METERING SECTION COMPLIES WITH ENERGY AUTHORITY SERVICE AND INSTALLATION RULES.
13. SHORT CIRCUIT FAULT CAPACITY OF SWITCHBOARD IS 30kA FOR 1 SEC.
14. OUTSIDE DOORS TO BE FITTED WITH DOOR STAY'S AT THE BOTTOM OF BOTH DOORS ON THE INSIDE

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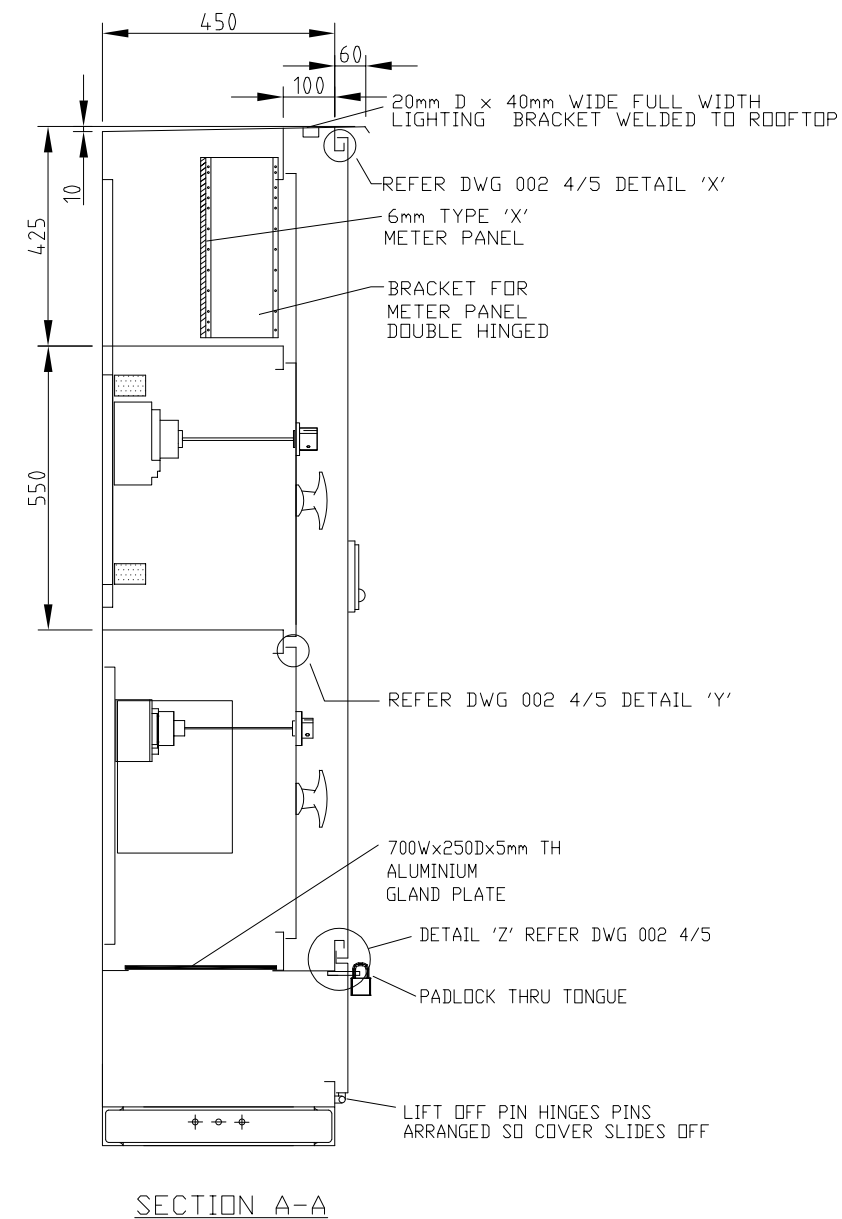
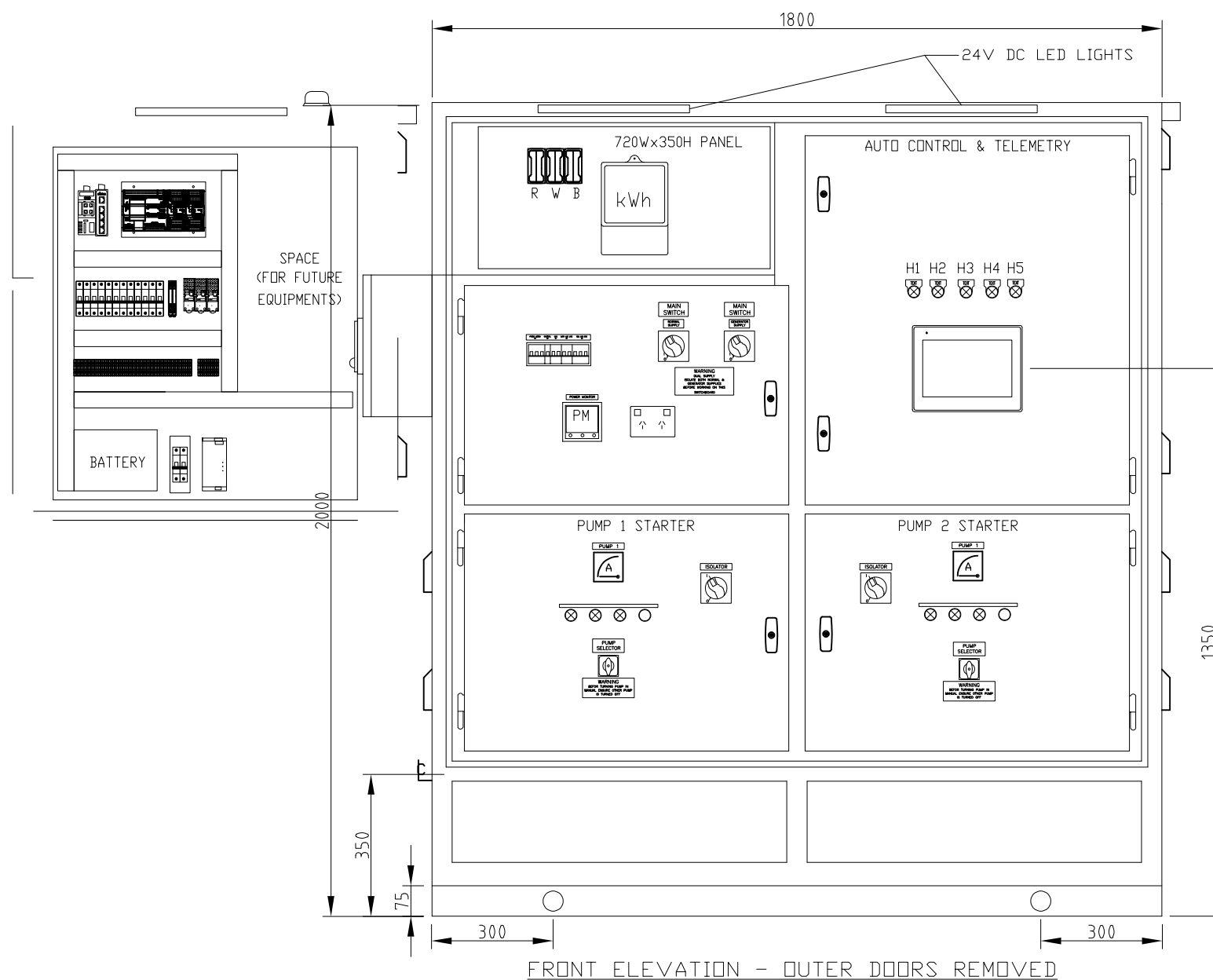
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Drawn	S. SHOKRAVI	Date	18.18.2020
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Checked	P. PRIDHAM	Size	A3

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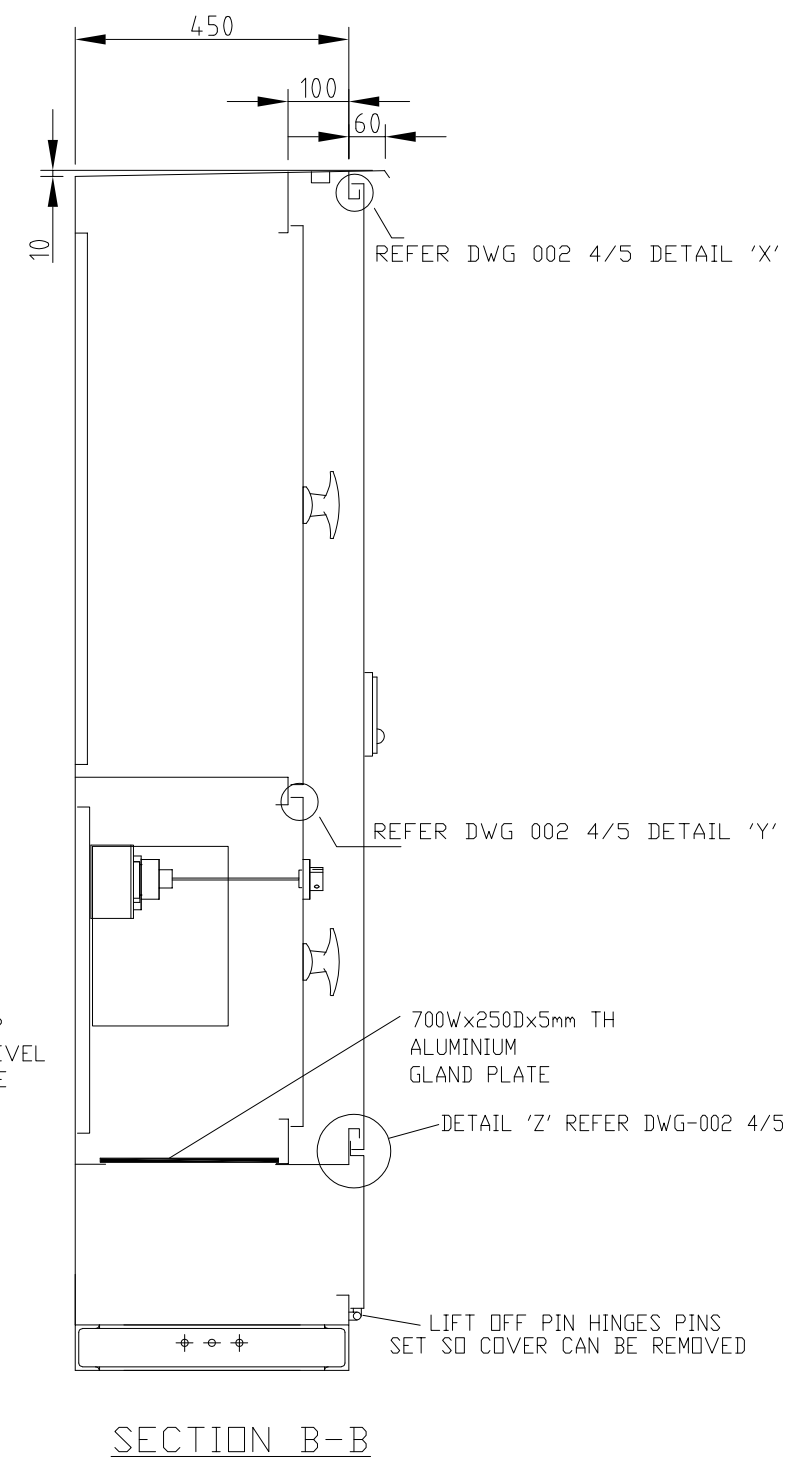
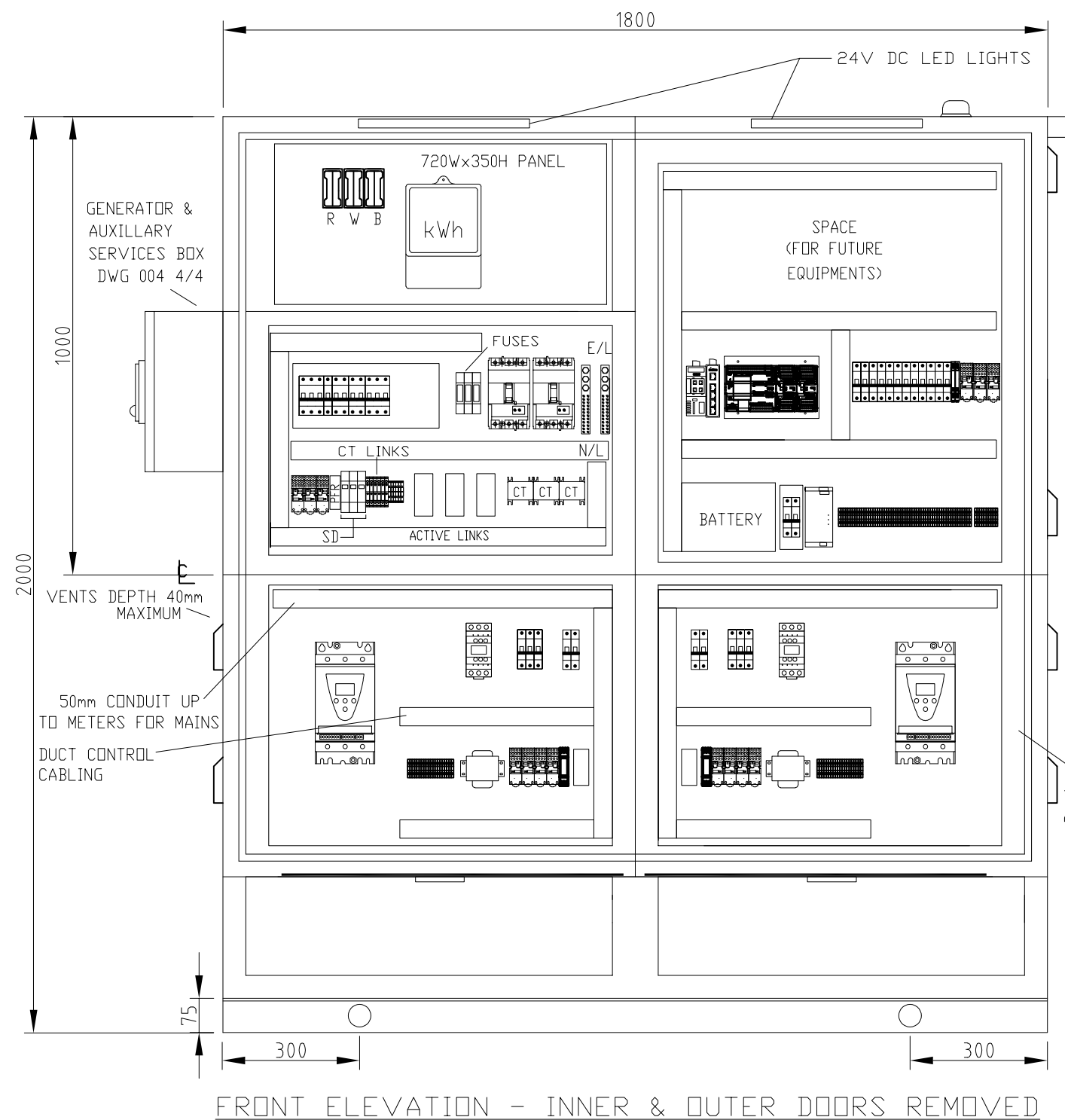
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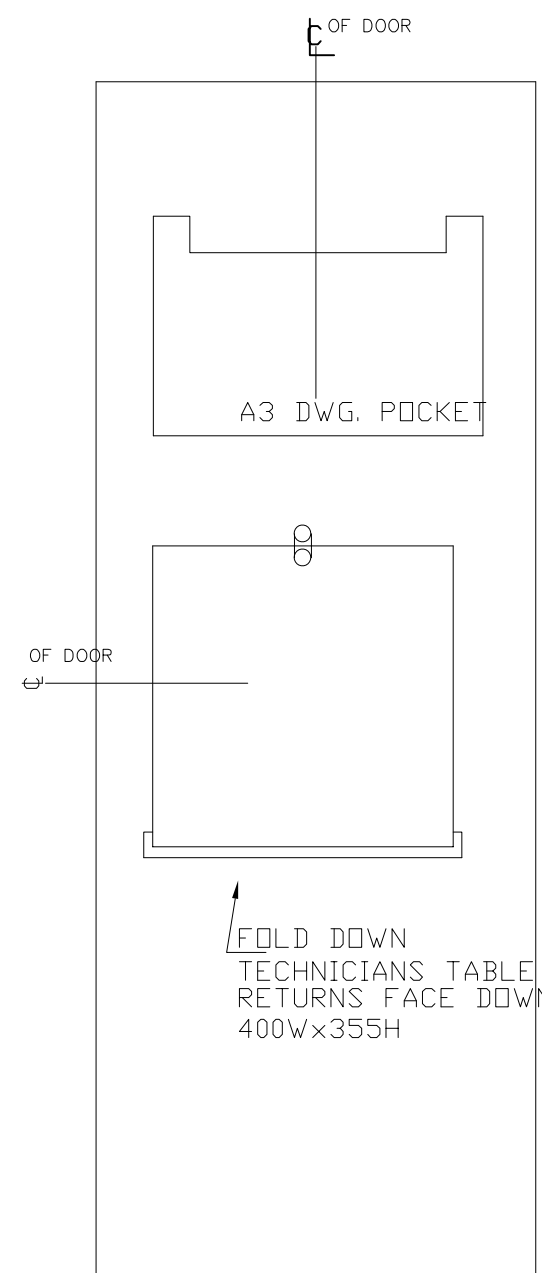
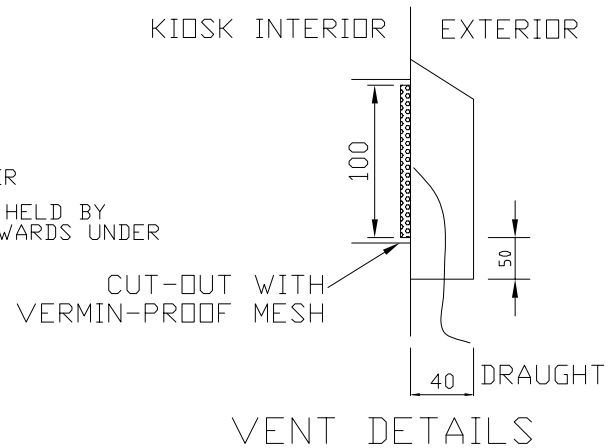
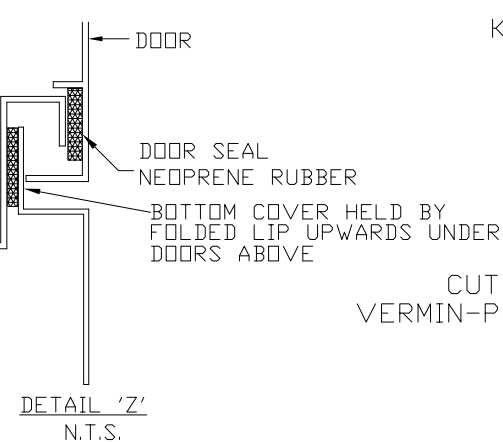
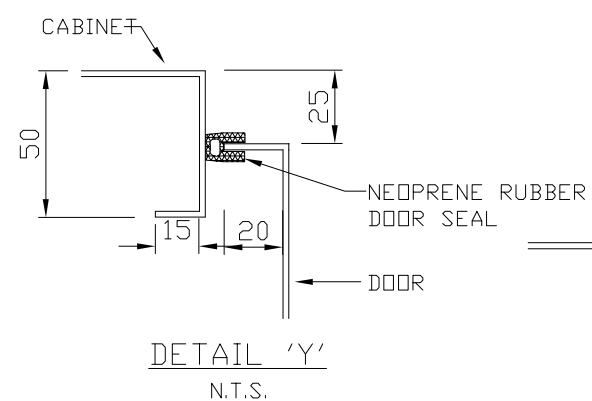
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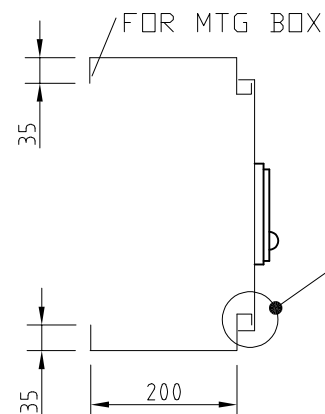
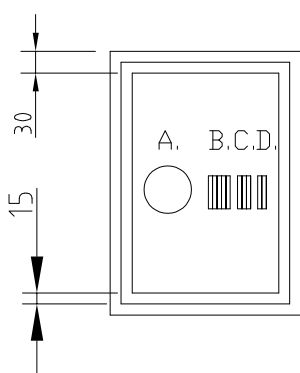
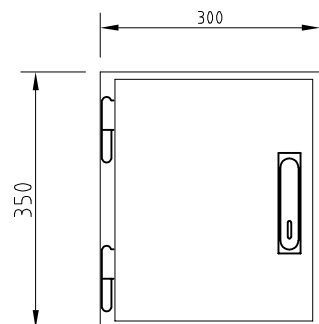
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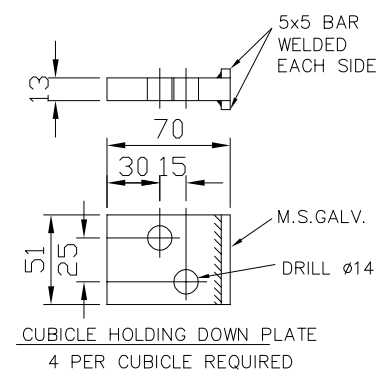
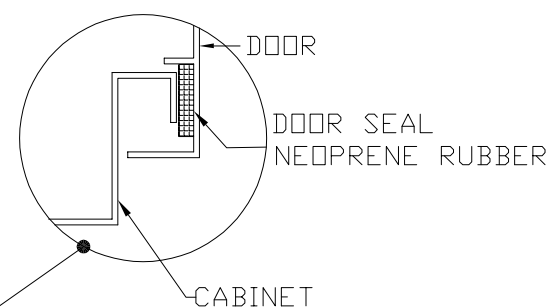
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GENERATOR & AUX SERVICES CONNECTION BOX



DETAIL 'X' N.T.S.



MANUFACTURED SAME DETAILS AS CABINET

- A. GENERATOR INLET (MARECHAL 150A)
- B. 32A 3PH & N+E OUTLET TERMINALS (CBQ8-N8)
- C. 240V SUPPLY TERMINALS (CBQ6-N6)
- D. BY PASS HIGH LEVEL FLOAT TERMINALS TO PLC DI-29, WIRES 57 & 29 (BRIDGED WHEN NOT IN USE)

REAR VIEW RH DOOR
HINGED TECHNICIANS TABLE
SHELF UP

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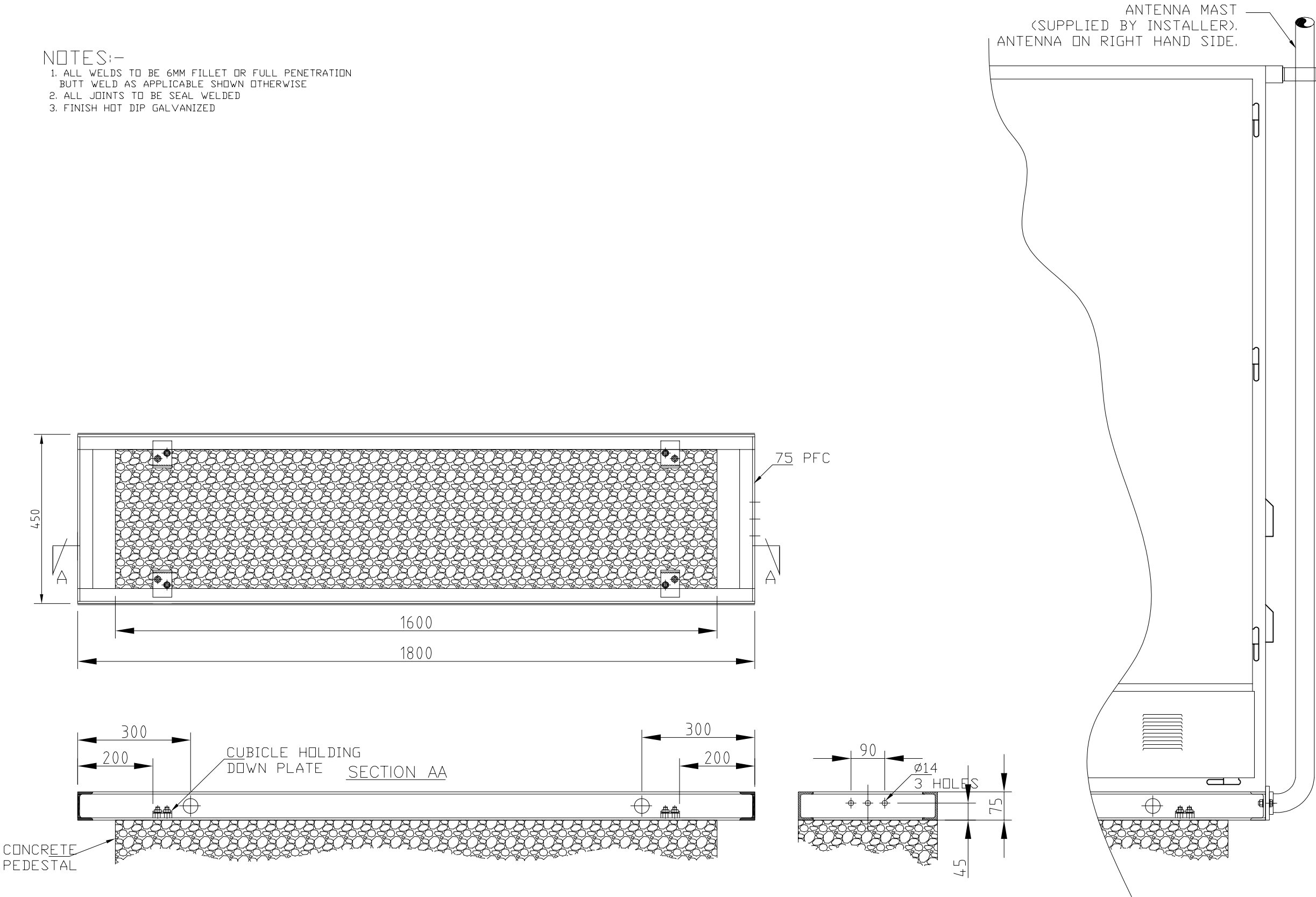
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- NOTES:-
- 1. ALL WELDS TO BE 6MM FILLET OR FULL PENETRATION BUTT WELD AS APPLICABLE SHOWN OTHERWISE
 - 2. ALL JOINTS TO BE SEAL WELDED
 - 3. FINISH HOT DIP GALVANIZED




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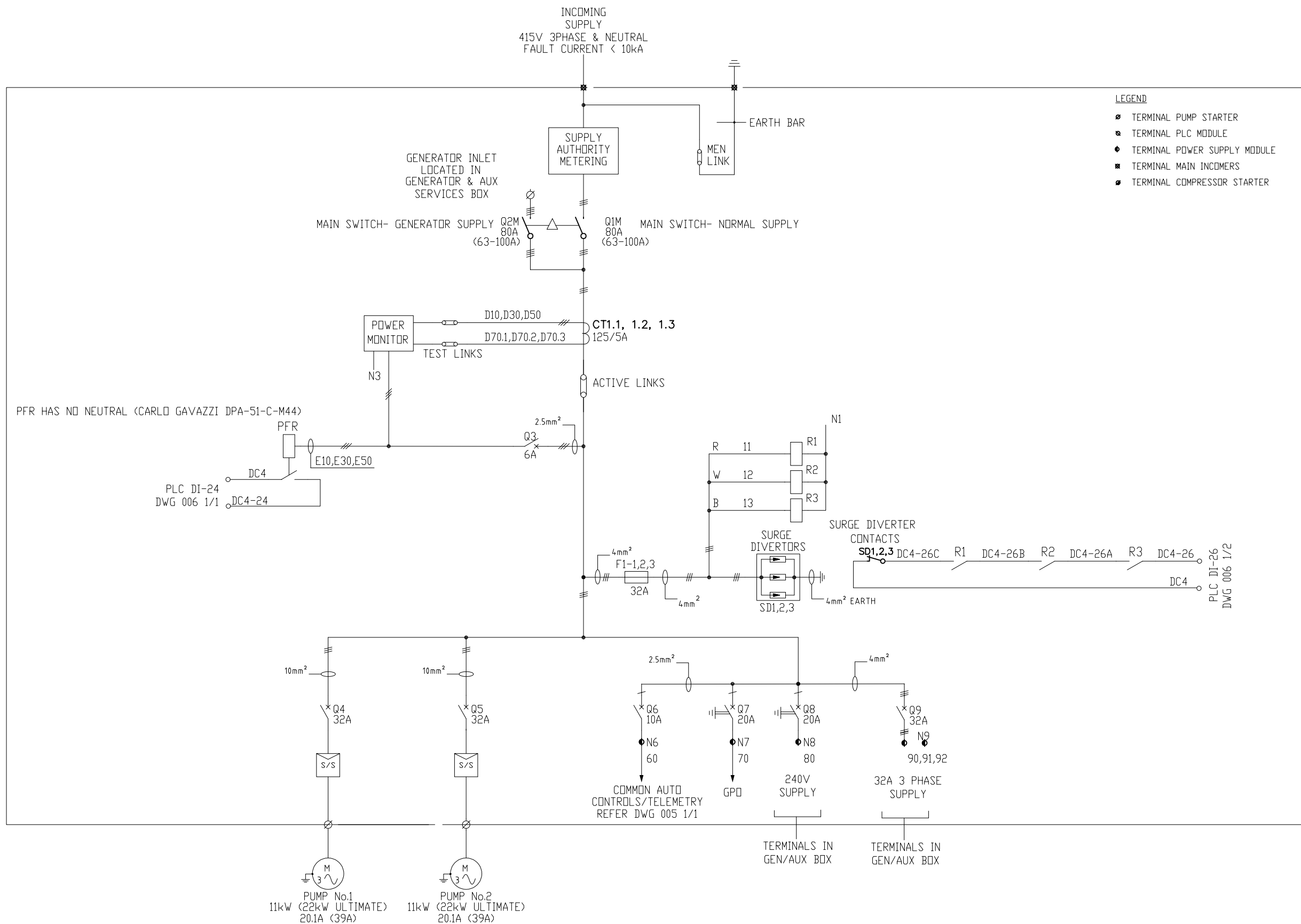
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**CHELSEA GARDENS SEWER
PUMP STATION**

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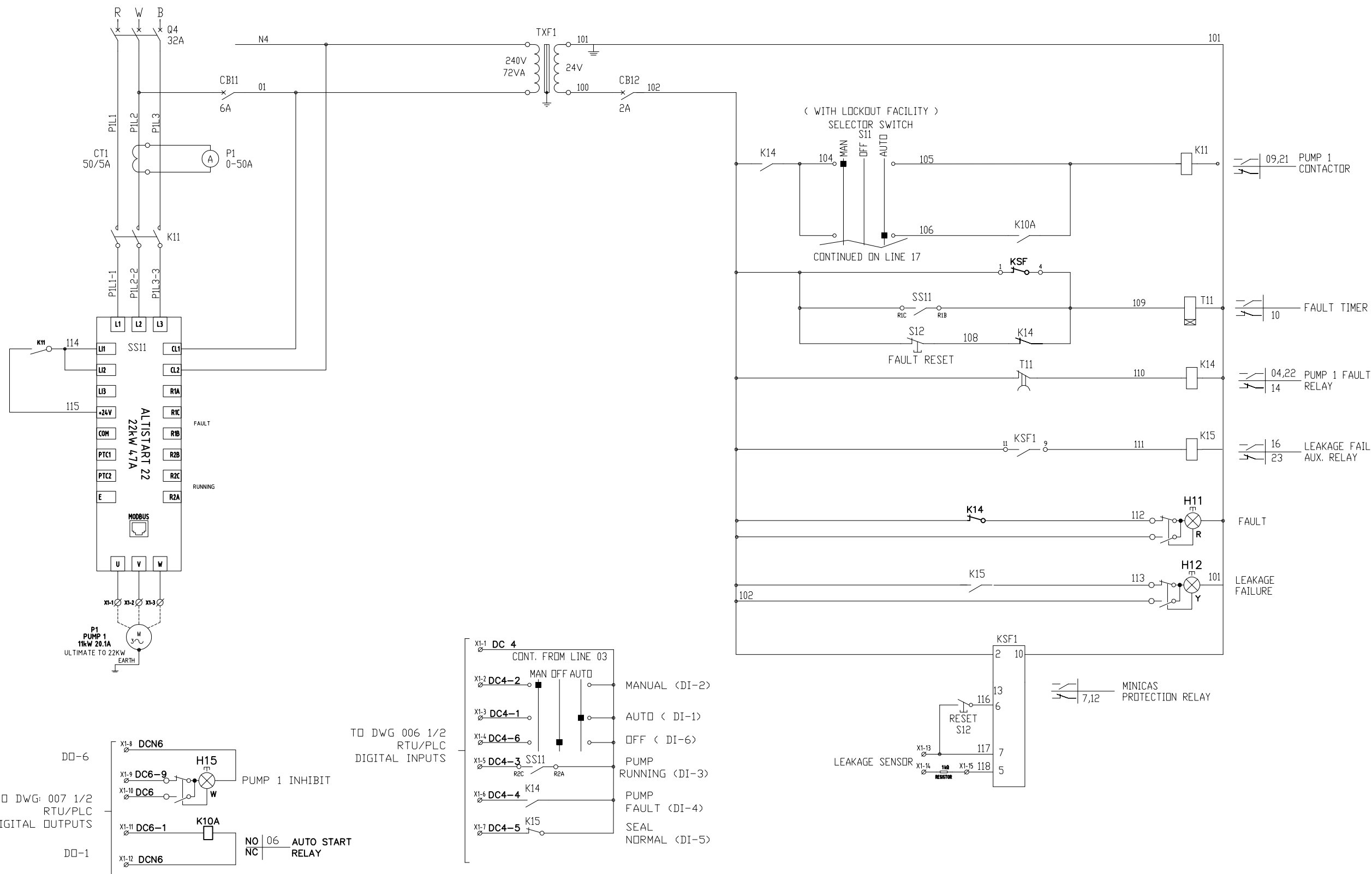
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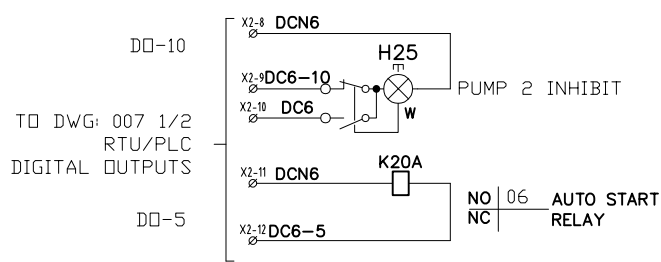
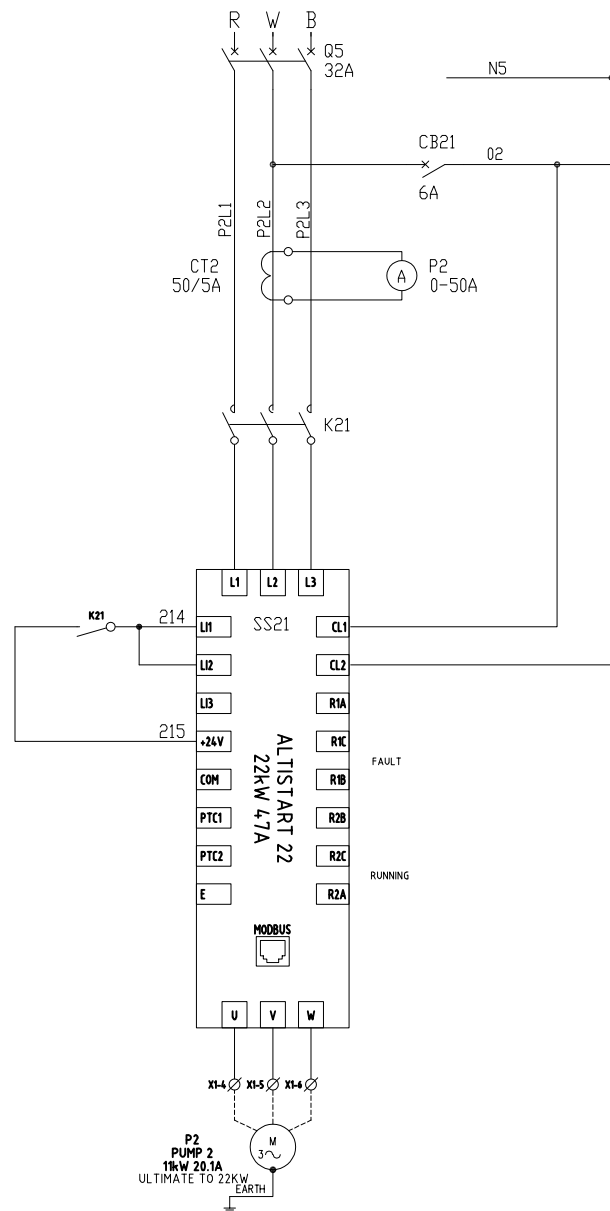
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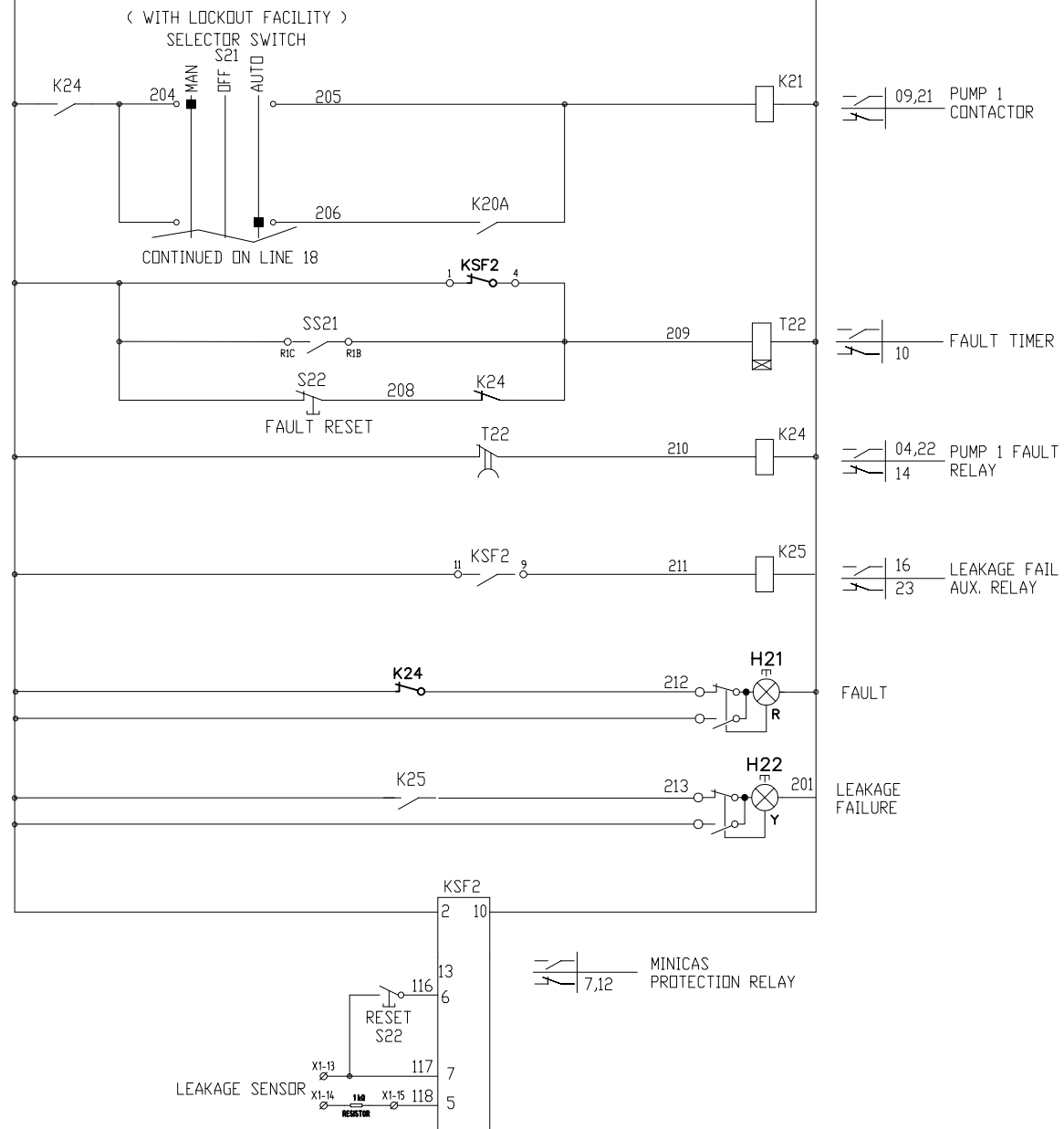
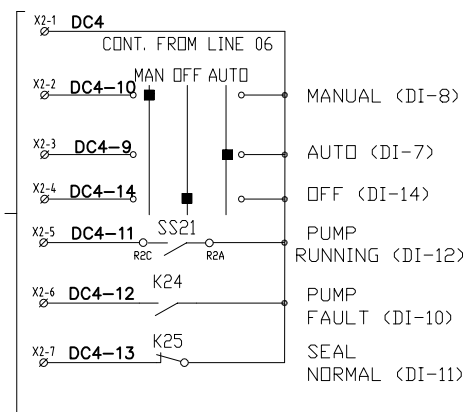
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TO DWG 006 1/1
RTU/PLC
DIGITAL INPUTS



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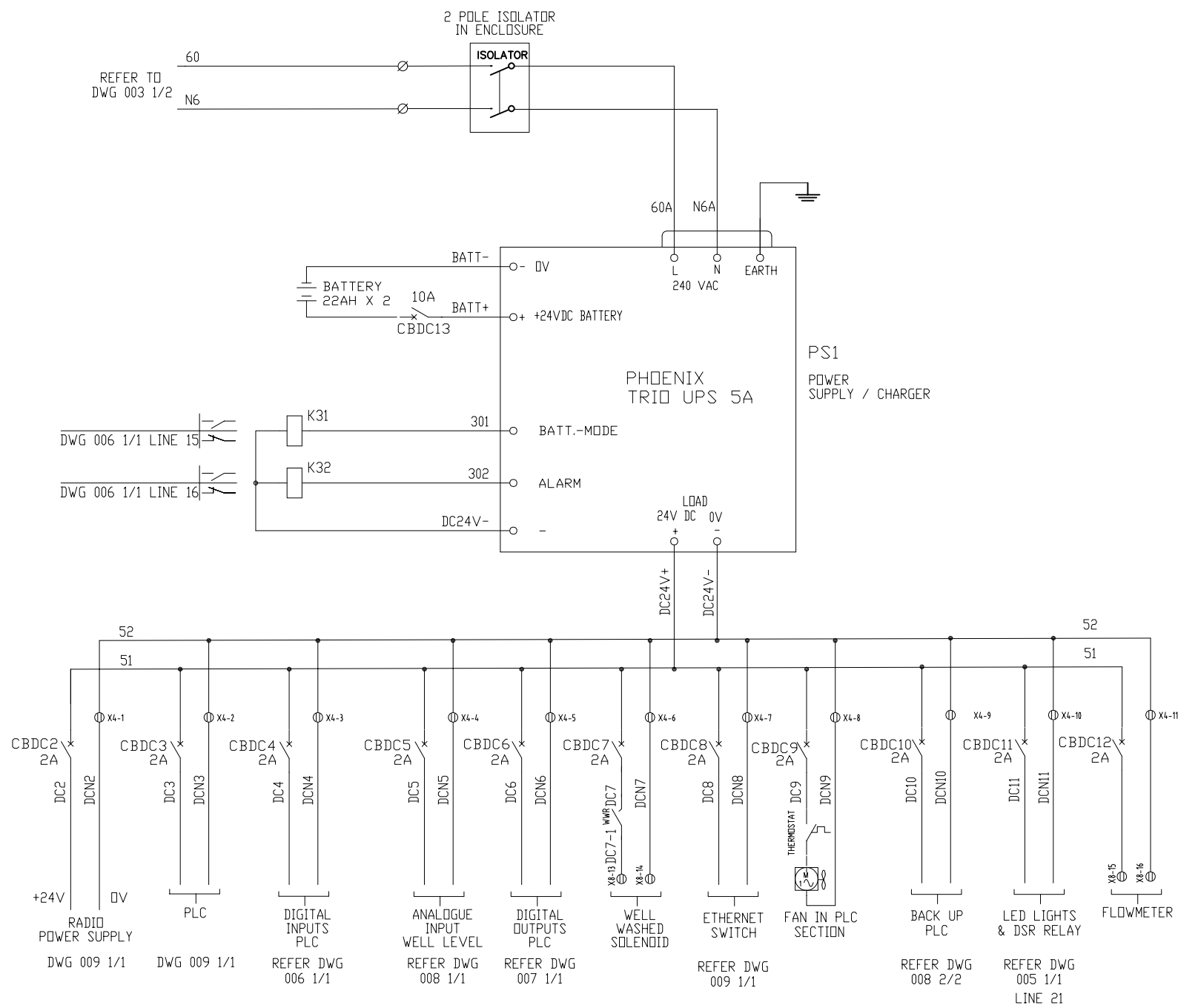
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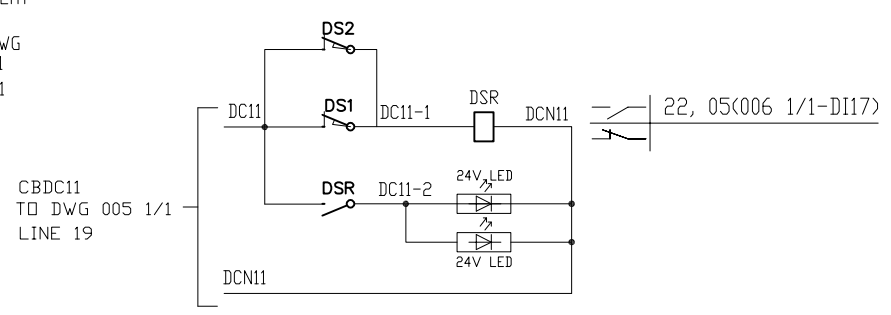
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- NOTES:
1. ALL CBDC CIRCUIT BREAKERS TO BE STANDARD AC RATED CB's
 2. DS1 DOOR SWITCH OPERATES DSR RELAY.
DOOR SWITCH IS N.C. WHEN OUTSIDE DOOR ARE OPEN.



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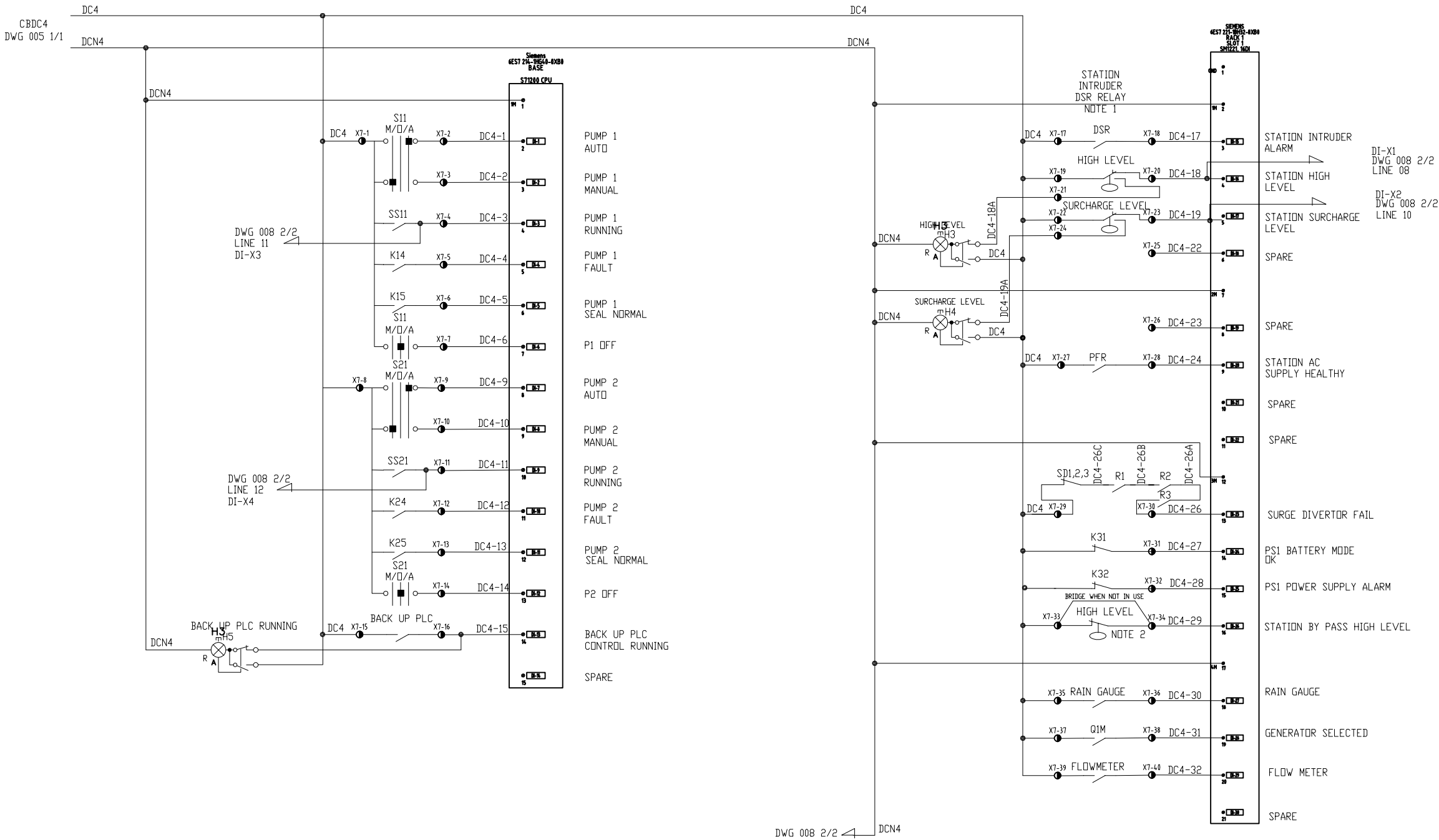
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CBDC4
DWG 005 1/1

NOTES:

1. DOOR SWITCH DS1 TO OPERATE RELAY DSR WHEN OUTSIDE DOORS ARE OPENED.



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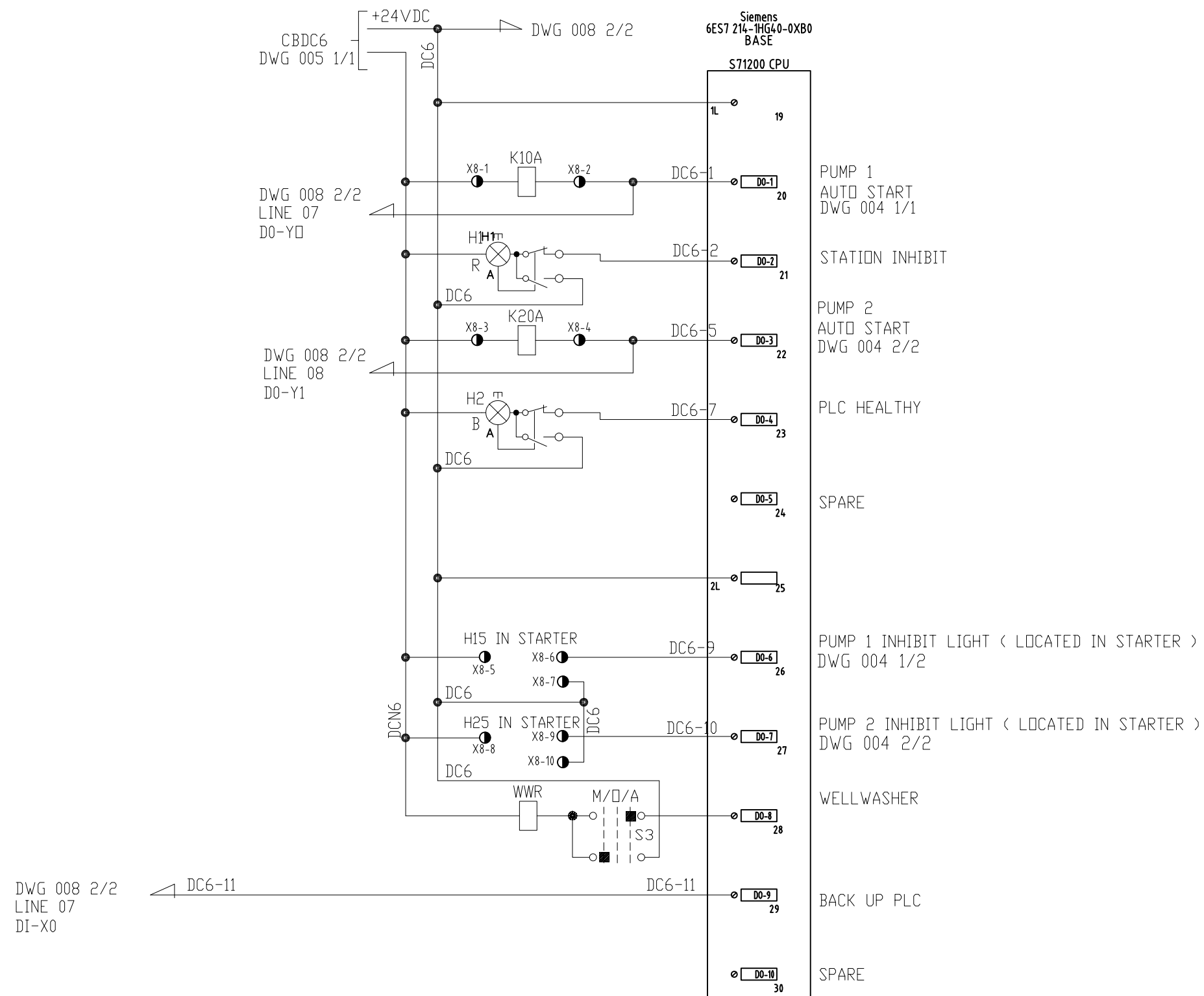
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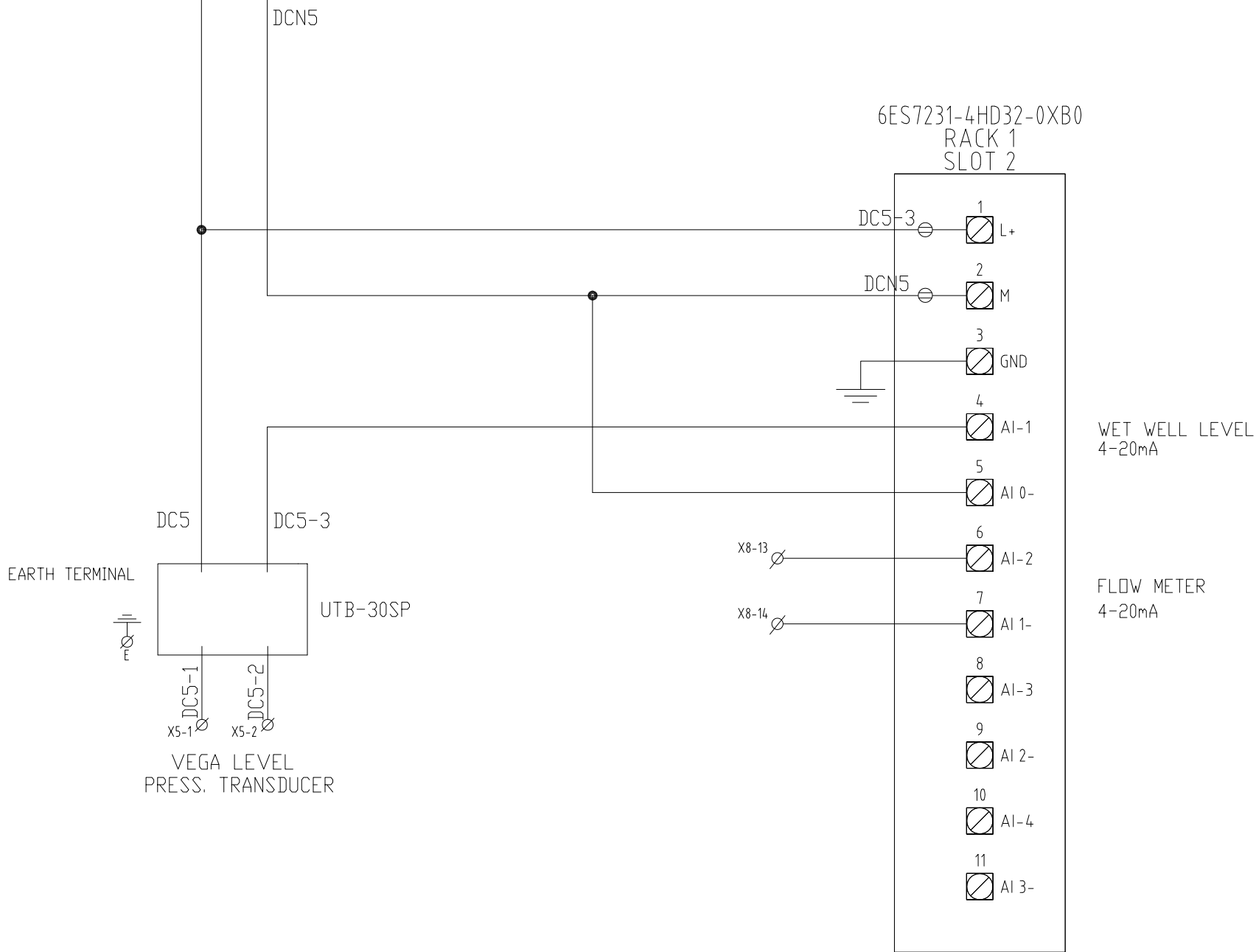
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24 VDC
FED FROM CBDC5
DWG. 005 1/1


- DCN5
+ DC5



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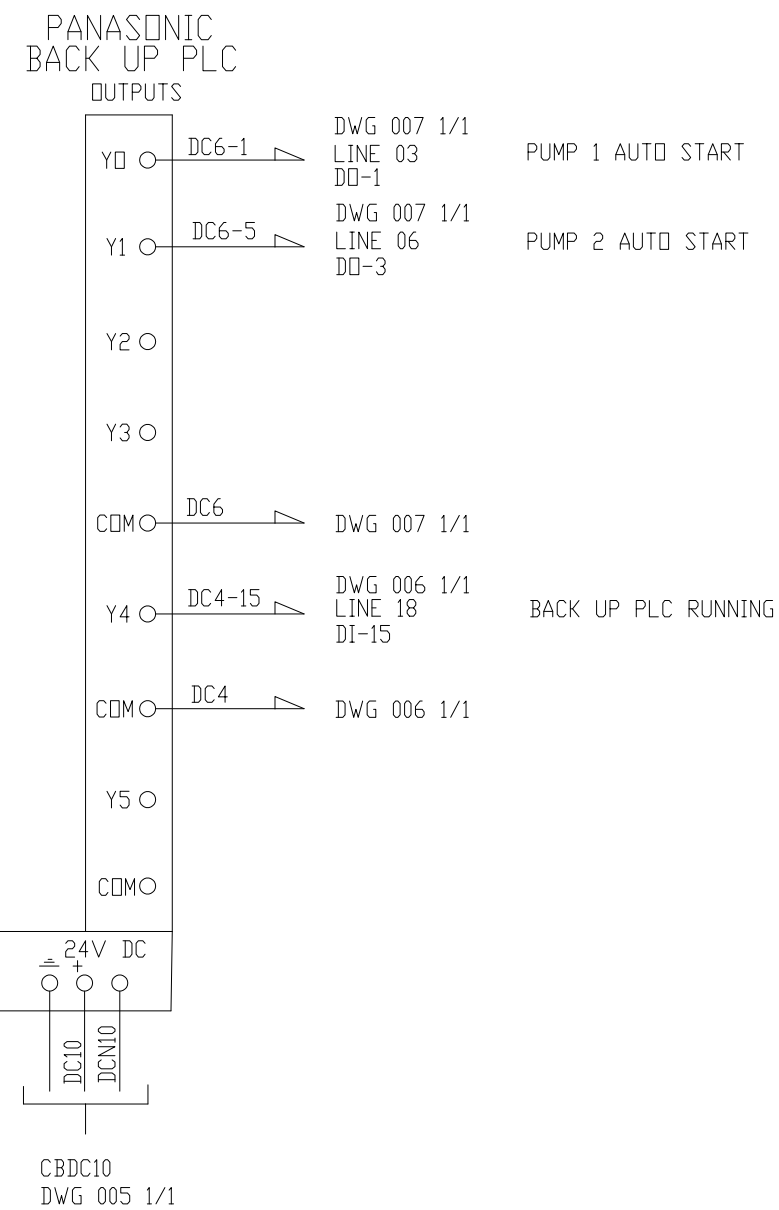
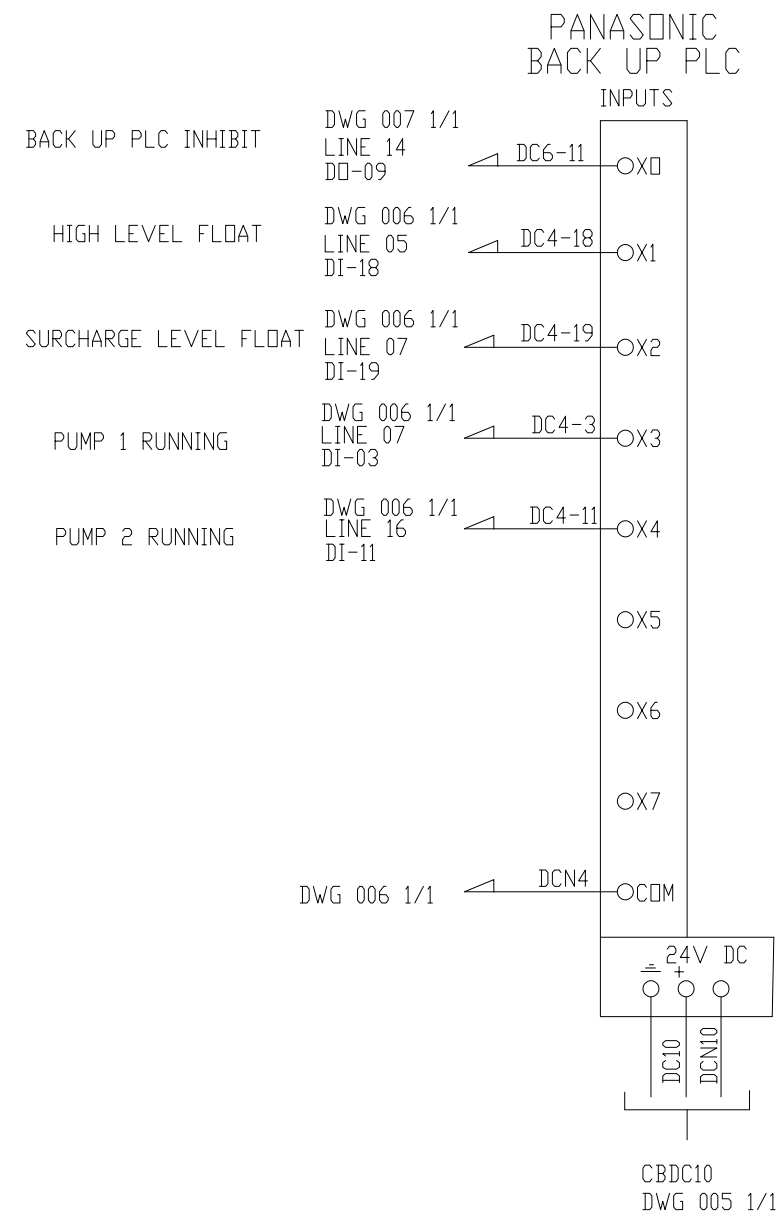
Client
PRIME MOSS VALE PTY LTD

Project
**CHELSEA GARDENS SEWER
PUMP STATION**

Drawn	S. SHOKRAVI	Date	18.18.2020
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Size	A3

Title
ELECTRICAL DETAILS

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Rev	Description	Date

Status

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CHELSEA GARDENS SPS - PLC

Digital Inputs	Comments
DI-1	Pump 1 Auto
DI-2	Pump 1 Man
DI-3	Pump 1 Running
DI-4	Pump 1 Fault
DI-5	Pump 1 Seal Normal
DI-6	Pump 1 OFF
DI-7	Pump 2 Auto
DI-8	Pump 2 Man
DI-9	Pump 2 Running
DI-10	Pump 2 Fault
DI-11	Pump 2 Seal Normal
DI-12	Pump 2 OFF
DI-13	Spare
DI-14	Spare
DI-15	Station Intruder
DI-16	Station High Level
DI-17	Station Surcharge Level
DI-18	Spare
DI-19	Spare
DI-20	Station AC Supply Healthy
DI-21	Spare
DI-22	Spare
DI-23	Surge Diverter Fail
DI-24	DC Power Supply Battery OK
DI-25	DC Power Supply OK
DI-26	Station By-Pass High Level
DI-27	Rain Gauge
DI-28	Generator Selected
DI-29	Flow Meter
DI-30	Spare


Digital Outputs	Comments
DO-1	Pump 1 Auto Start
DO-2	Station Inhibit
DO-3	Pump 2 Auto Start
DO-4	Spare
DO-5	PLC Healthy
DO-6	Pump 1 Inhibit
DO-7	Pump 2 Inhibit
DO-8	Wellwasher
DO-9	Vent Fan Control
DO-10	

Analogue Inputs	Comments
AI-1	Wet Well Level
AI-2	Flow Meter
AI-3	Spare
AI-4	Spare

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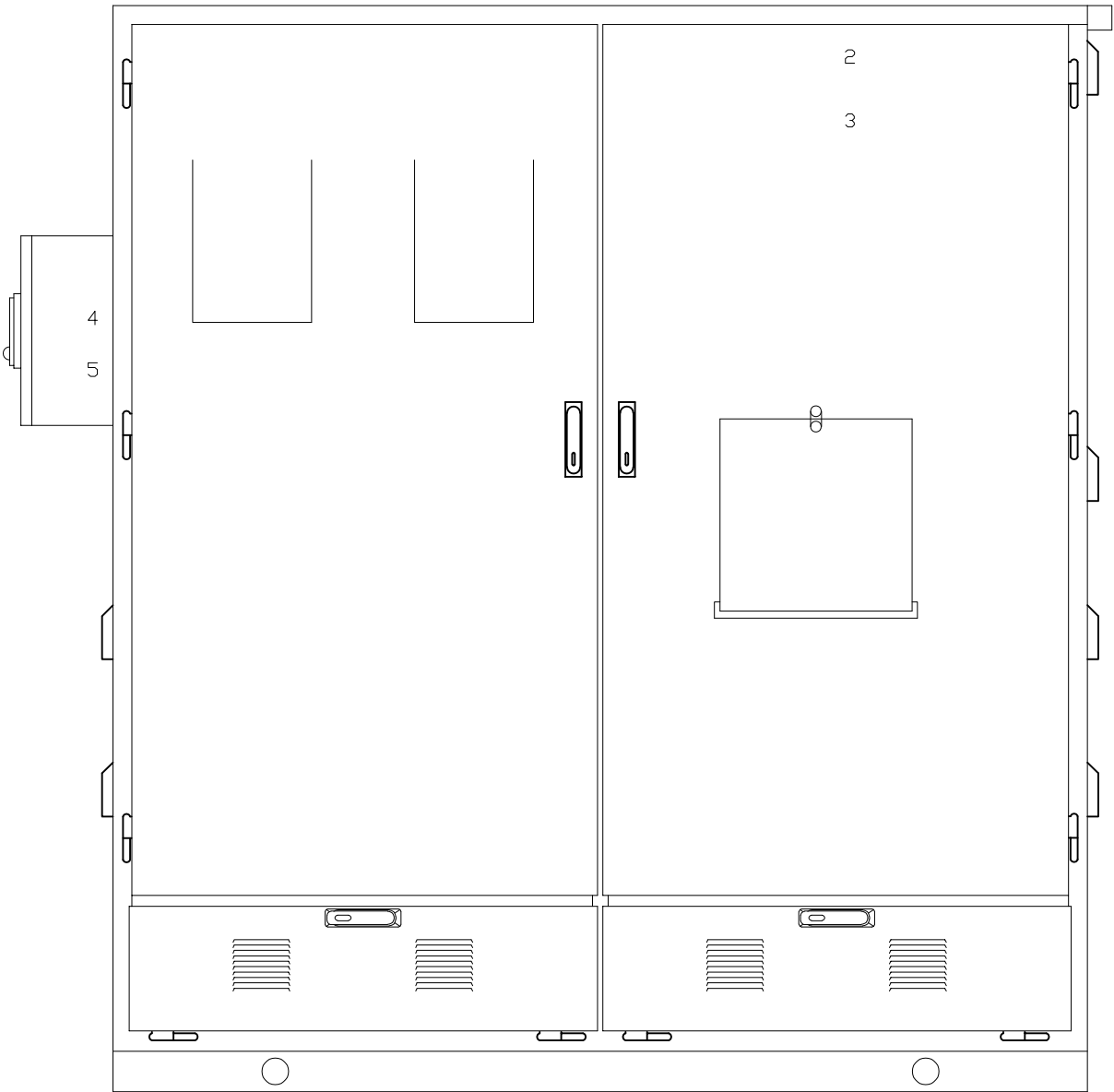
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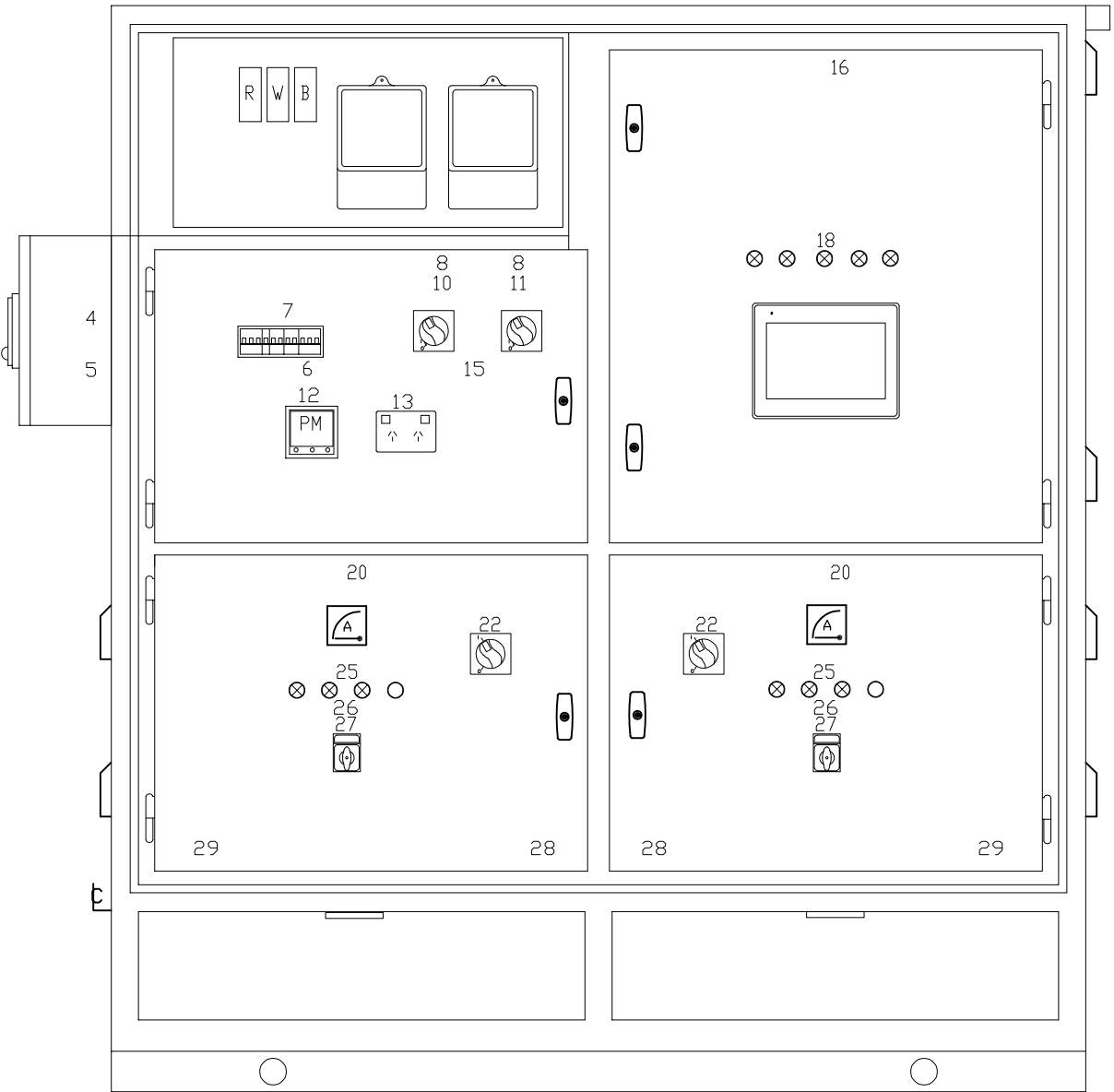
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SEE DRAWING 20043-E0012 2/3 & 3/3



FRONT ELEVATION



FRONT ELEVATION - OUTER DOORS REMOVED

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LOCATION No.	WORDING	LENGTH	HEIGHT	LETTER COLOUR	BACKGROUND COLOUR	MATERIAL	QTY	COMMENTS
OUTSIDE OF SCA								
2	CHELSEA GARDENS SPS	250(Min)	50	BLACK	SILVER	STAINLESS STEEL	1	
3	<div><div>DANGER</div><div>415 VOLTS</div></div>	300	230			METAL	1	STANDARD SAFETY SIGN
4	GENERATOR & AUX SERVICES BOX	150	30	BLACK	SILVER	STAINLESS STEEL	1	OUTSIDE DOOR OF GENERATOR & AUX SERVICES BOX
5	GENERATOR INPUT SUPPLY 32A 3 PHASE + N & E SUPPLY - Q9 N9 240V SUPPLY - Q8 N8 HIGH LEVEL FLOAT	100	35	BLACK	WHITE	TRAFFOLYTE	1	INSIDE DOOR OF GENERATOR & AUX SERVICES BOX

POWER DISTRIBUTION SECTION								
6	POWER DISTRIBUTION	150	30	BLACK	WHITE	TRAFFOLYTE	1	
7	Q6 - AUTO CONTROLS Q7 - GPO Q8 - 240V AUX BOX Q9 - 32A AUX BOX	TO FIT	TO FIT	BLACK	WHITE	TRAFFOLYTE	1	
8	MAIN SWITCH	80	30	RED	WHITE	TRAFFOLYTE	2	
10	NORMAL SUPPLY	50	20	BLACK	WHITE	TRAFFOLYTE	1	
11	GENERATOR SUPPLY	50	20	BLACK	WHITE	TRAFFOLYTE	1	
12	POWER MONITOR	90	20	BLACK	WHITE	TRAFFOLYTE	1	
13	GPO FED FROM Q7	80	20	BLACK	WHITE	TRAFFOLYTE	1	
15	WARNING DUAL SUPPLY ISOLATE BOTH NORMAL & GENERATOR SUPPLIES BEFORE WORKING ON THIS SWITCHBOARD	120	60	WHITE	RED	TRAFFOLYTE	1	

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LOCATION No.	WORDING	LENGTH	HEIGHT	LETTER COLOUR	BACKGROUND COLOUR	MATERIAL	QTY	COMMENTS
AUTO CONTROL SECTION								
16	AUTO CONTROLS AND TELEMETRY	200	30	BLACK	WHITE	TRAFFOLYTE	1	
18	STATION INHIBIT	SEE COMMENTS	20	BLACK	WHITE	TRAFFOLYTE	1	THESE LABELS ARE BE COMBINED INTO THE ONE LABEL WITH LENGTH TO SUIT
	PLC HEALTHY							
	HIGH LEVEL							
	SURCHARGE LEVEL							
	BACK-UP PLC RUNNING							


PUMP 1 & 2 STARTERS								
20	PUMP 1 STARTER	150	30	BLACK	WHITE	TRAFFOLYTE	1	
21	PUMP 2 STARTER	150	30	BLACK	WHITE	TRAFFOLYTE	1	
22	ISOLATOR	70	20	BLACK	WHITE	TRAFFOLYTE	2	
25	FAULT	SEE COMMENTS	20	BLACK	WHITE	TRAFFOLYTE	2	THESE LABELS ARE BE COMBINED INTO THE ONE LABEL WITH LENGTH TO SUIT
	LEAKAGE FAILURE							
	PUMP INHIBIT							
	FAULT RESET							
26	WARNING BEFORE RUNNING PUMP IN MANUAL ENSURE OTHER PUMP IS TURNED OFF	70	30	WHITE	RED	TRAFFOLYTE	2	LOCATED DIRECTLY ABOVE PUMP SELECTOR SWITCH LABEL
27	PUMP SELECTOR	70	20	BLACK	WHITE	TRAFFOLYTE	2	

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