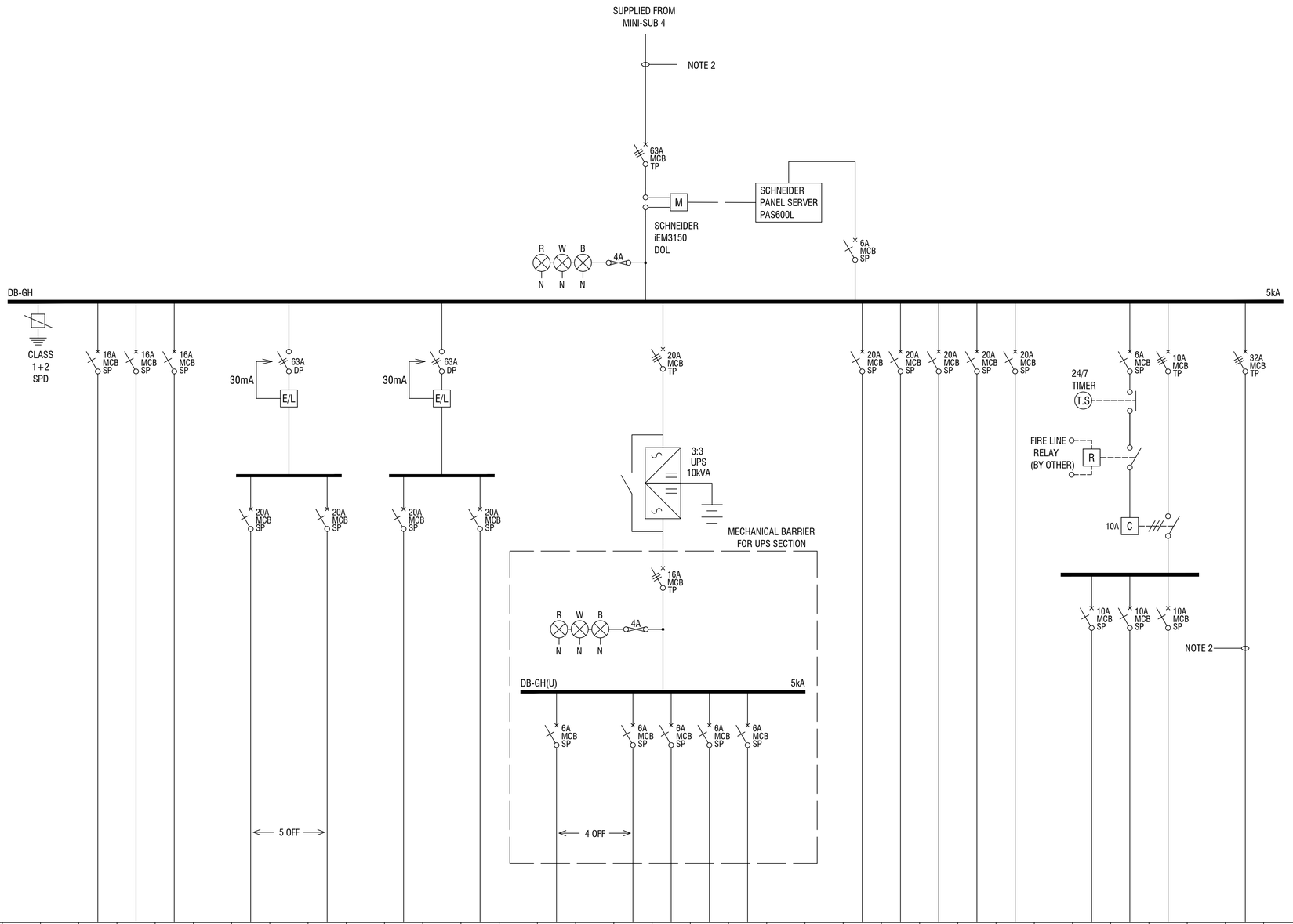
DISTRIBUTION BOARD CONSTRUCTION & ELECTRICAL SPECIFICATION

RECESSED		WEATHER PROOF		MATERIAL THICKNESS		MATERIAL TYPE		FINISH		CABLE ENTRY		SEPARATED DIVISIONS		COLOUR- MAIN	WHITE	WIDTH (max)	1000	BUSBAR RATING -A	63A	FRONT ACCESS	●
HALF-RECESSED		DUST PROOF		1.2mm		ELECTRO GALVANISED	●	ETCH PRIME		TOP	●	NORMAL SECTION		COLOUR- NORMAL		HEIGHT (max)	1000	FAULT LEVEL -kA	5kA	REAR ACCESS	
SURFACE	●	HINGED PANELS	●	1.6mm	●	3CR12		BRUSHED		BOTTOM	●	EMERGENCY SECTION	●	COLOUR- EMERGENCY	RED	DEPTH (max)	200	NEUTRAL (full)	●	SUPPLY: SINGLE CORE	
FLOOR STANDING		SMOKED GLASS DOORS		2.0mm		304 SS		EPOXY COATED	●	GLAND PLATE		UPS SECTION 1	●	COLOUR- UPS1	BLUE	EQUIPMENT	ABB SCHNEIDER	EARTH BAR	●	SUPPLY: CABLE	●
DOOR (PER SECTION)	●	C/W NEOPRENE GASKETS				318 SS		STRUCTURED	●	BACK		UPS SECTION 2		COLOUR- UPS2	-	FUTURE EXPANSION	30%	EARTH STUD	●	SUPPLY: BUSBAR	

FOR TENDER

NOTES

1. REFER TO DETAIL FOR KEY INTERLOCK
2. REFER TO DRAWING SMFN-CAI-EE-DR005_00 FOR CABLE SCHEDULE



CIRCUIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
INSTALLATION METHOD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CIRCUIT LOAD (kVA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
No OFF CONDUCTORS/SIZE	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
EARTH SIZE mm 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CIRCUITS	
No	DESCRIPTION
1	-
2	-
3	-
4	L1(LIGHTS)
5	L2(LIGHTS)
6	L3(LIGHTS)
7	-
8	P1(PLUGS)
9	TO
10	P5(PLUGS)
11	-
12	P6(PLUGS)
13	-
14	HWC
15	-
16	UDP1
17	TO
18	UDP4
19	ISO1-BOOM GATE
20	ISO2-BOOM GATE
21	ISO3-BOOM GATE
22	-
23	-
24	DP1
25	DP2
26	AC1
27	AC2
28	AC3
29	-
30	FA1(FAN)
31	EF1(FAN)
32	EF2(FAN)
33	-
34	PUMP1(DOMESTIC WATER PUMP)
35	-
36	-
37	-
38	-
39	-
	-
	-
	-
	-
	-

A1

- REVISIONS -

REV	DATE	DESCRIPTION	SIGN
TD	2024-12-11	ISSUED FOR TENDER	R.M
TD1	2025-02-10	REVISED AS PER COMMENTS	R.M

- LEGEND -

- TRANSFORMER
- G GENERATOR
- SS SELECTOR SWITCH
- A AMMETER
- V VOLTMETER
- INDICATOR LIGHT
- FUSE
- M METER + CURRENT TRANSFORMERS (REQUIRES FUSES)
- M DIRECT ONLINE METER
- SURGE ARRESTOR
- xxA TYPE SP SINGLE PHASE CIRCUIT BREAKER
- xxA TYPE SP SINGLE PHASE CIRCUIT BREAKER (D-CURVE)
- xxA TYPE DP DOUBLE POLE CIRCUIT BREAKER
- xxA TYPE DP DOUBLE POLE CIRCUIT BREAKER (D-CURVE)
- xxA TYPE THREE PHASE CIRCUIT BREAKER
- xxA TYPE THREE PHASE CIRCUIT BREAKER (D-CURVE)
- xxA ISO. SP SINGLE PHASE ISOLATOR
- xxA ISO. DP DOUBLE POLE ISOLATOR
- xxA ISO. TP THREE PHASE ISOLATOR
- 30mA 63A ISO. DP E/L ISOLATOR EARTH LEAKAGE
- 30mA 63A MCB DP E/L EARTH LEAKAGE WITH OVERLOAD PROTECTION
- xxA C CONTACTOR
- R RELAY
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- PUSH BUTTON
- T THERMOSTAT
- T.S 24hr / 7DAY PROGRAMMABLE TIMER

CESA
CLAASSEN AURET (PTY) LTD.
CONSULTING ENGINEERS
8 HANDEL ROAD, ORMONDE, 2091, TEL: 011 496 3101
1 HAWSTON ROAD, MILNERTON, 7441, TEL: 021 555 0940

FOR TENDER

- PROJECT -

SANSA

sansa SOUTH AFRICAN NATIONAL SPACE AGENCY

APPROVED:	F.L	CREATED:	2025-01-29
CHECKED:	F.L	PLOT DATE:	2023-04-18
DESIGNED:	F.L	SCALE:	NTS
DRAWN:	S.P	FILE:	C:\USERS\DEANCL\ASSEN AURET BACK UP\WARNIE - DOCUMENTS\JOTTER\SANSA\ELECTRICAL\SLD\SMFN-CAI-EE-DR-005_09-DB-GH SINGLE LINE DIAGRAM

- DRAWING DESCRIPTION -

DB-GH(GATEHOUSE)
SINGLE LINE DIAGRAM

- DRAWING NUMBER -

PROJECT #	COMPANY	DISCIPLINE & TYPE	SUB DISCIPLINE & NUMBER	REV
SMFN	CAI	EE	DR-005_09	TD1