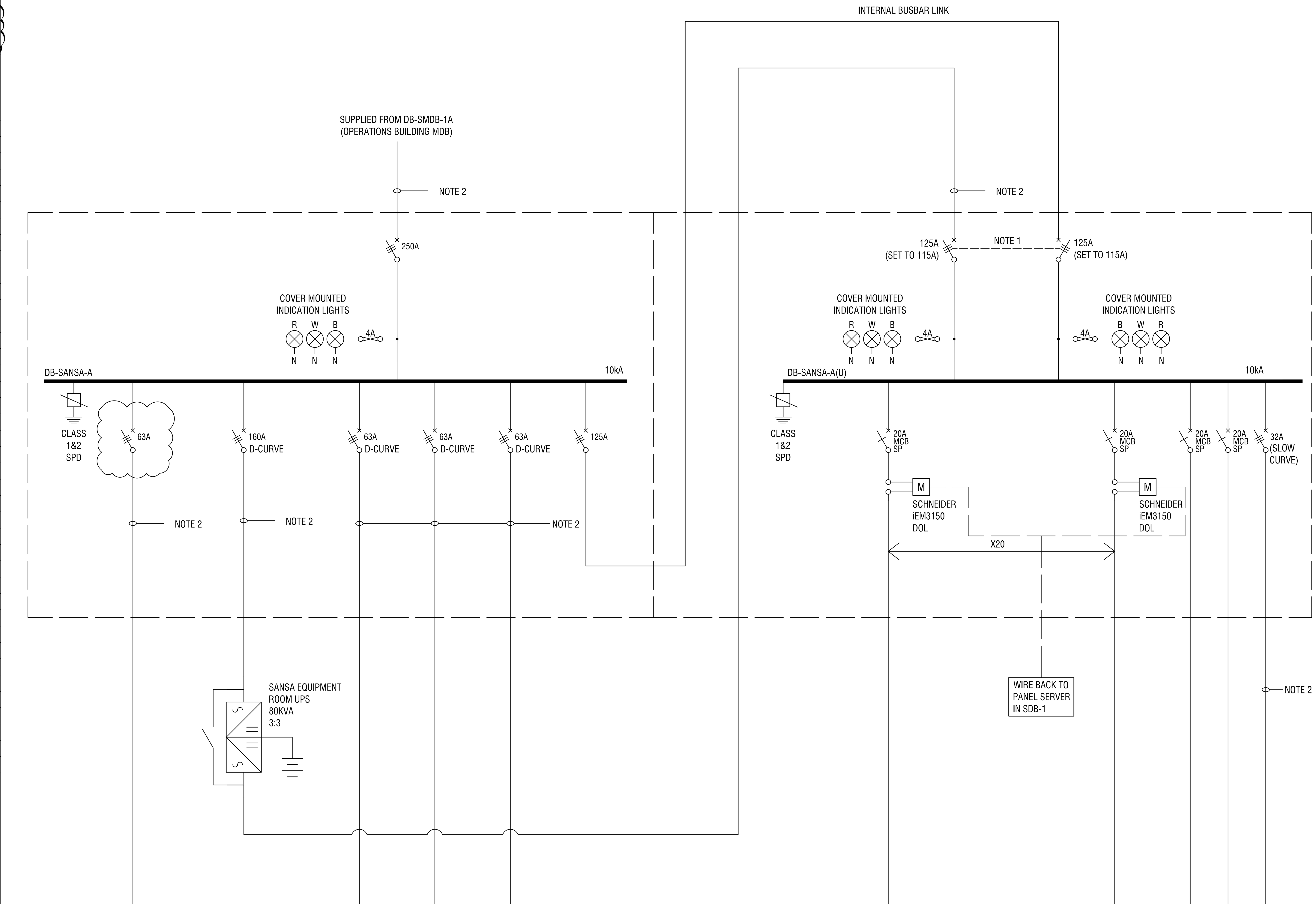
DISTRIBUTION BOARD CONSTRUCTION & ELECTRICAL SPECIFICATION

RECESSED		WEATHER PROOF		MATERIAL THICKNESS		MATERIAL TYPE		FINISH		CABLE ENTRY		SEPARATED DIVISIONS		COLOUR- MAIN	WHITE	WIDTH (max)	1000	BUSBAR RATING -A	250A	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. KEY INTERLOCKED
2. REFER TO DRAWING SMFN-CAI-EE-DR005_00 FOR CABLE SCHEDULE
3. FINAL LOCATION AND SETTING OUT OF POWER FENCE TO BE COORDINATED SANSA/NASA BEFORE THE COMMENCEMENT OF THE INSTALLATION



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	DB-SER(SANSA EQUIPMENT ROOM)
5	
6	-
7	-
8	-
9	-
10	CRAC AC UNIT 1
11	
12	CRAC AC UNIT 2
13	-
14	CRAC AC UNIT 3
15	
16	-
17	
18	-
19	
20	-
21	-
22	-
23	-
24	UP1 - NETWORK CABINET 1 SUPPLY
25	
26	
27	
28	
29	
30	UP20 - NETWORK CABINET 20 SUPPLY
31	-
32	UP21 - SANSA OPS WORKSTATIONS
33	UP22 - SANSA OPS WORKSTATIONS
34	SUPPLY TO SDB-1(U)
35	-
36	-
37	-
38	-
39	-
	-
	-
	-
	-
	-
	-

A1

- REVISIONS -

REV	DATE	DESCRIPTION	SIGN
A	2024-11-08	ISSUED FOR INFORMATION	R.M
TD	2024-12-11	ISSUED FOR TENDER	R.M
TD1	2025-02-10	REVISED AS PER COMMENTS	R.M

- LEGEND -

- TRANSFORMER
- GENERATOR
- SELECTOR SWITCH
- AMMETER
- VOLTMETER
- INDICATOR LIGHT
- FUSE
- METER + CURRENT TRANSFORMERS (REQUIRES FUSES)
- 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

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\SEAN\CLAASSEN AURET INC\CA DRAWINGS - DOCUMENTS\2700 - SANSA\DRAWINGS\ELECTRICAL\SLDS\SMFN-CAI-EE-DR-005_05-DB-SANSA-A SINGLE LINE DIAGRAM

- DRAWING DESCRIPTION -

DB-SANSA-A
SINGLE LINE DIAGRAM

- DRAWING NUMBER -

PROJECT # | COMPANY | DISCIPLINE & TYPE | SUB DISCIPLINE & NUMBER

SMFN-CAI-EE-DR-005_05

REV. TD1