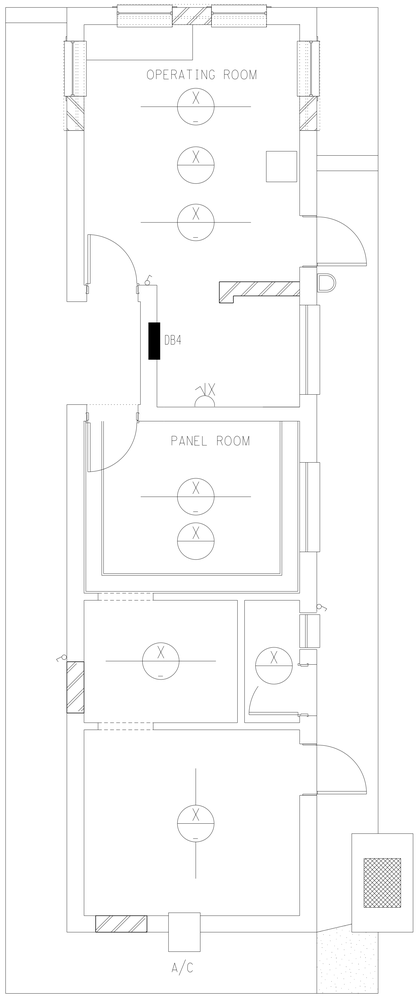
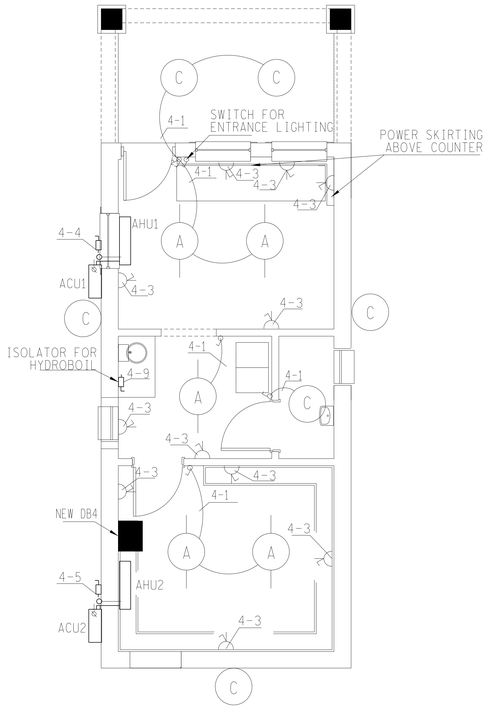


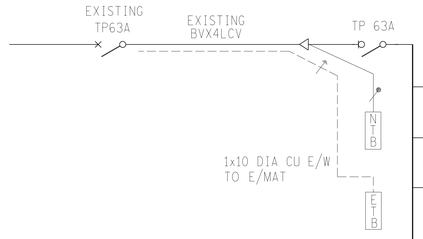
EXISTING LAYOUT

DEMOLITION NOTES:

1. ALL LUMINAIRES, POWER POINTS AND LIGHT SWITCHES TO BE REMOVED, AND REPLACED AS SHOWN IN NEW LAYOUT.
2. DB4 AND ELECTRICAL EQUIPMENT TO BE REMOVED AND MAKE GOOD
3. WIRING TO BE REMOVED.



NEW LAYOUT



LABEL : DB 4 400/230V AC

FREESTANDING COLOUR-GREY G29 TO SANS11091 WITH DOOR

CONN = 10358W
EST = 6760W

ELU'S	PHASE	MCB'S	CONDUCTOR SIZE mm² / CONDUIT SIZE mm	CIRC No	LABEL	POINT No	LOAD	
					MAIN SWITCH			
	R	SP10A	2 x 1.5 + 1 x 1.5 E/W	4-1	LIGHTS	1-11	398 W	
	W	SP10A	2 x 1.5 + 1 x 1.5 E/W	4-2	OUTDOOR LIGHTS	1-4	398 W	CONNECTED TO DAY/NIGHT SWITCH
DP60A	B	SP20A	2 x 2.5 + 1 x 2.5 E/W	4-3	PLUGS	1-5	2000 W	
	R	SP20A			SPARE			
	W	SP20A	2 x 2.5 + 1 x 2.5 E/W	4-4	ACU/AHU1		1300 W	
	B	SP20A	2 x 2.5 + 1 x 2.5 E/W	4-5	ACU/AHU1		1300 W	
	R	SP15A		4-6	ACCESS CONTROL		1000 W	
	W	SP15A		4-7	GATE MOTOR		1000 W	
	B	SP15A		4-8	ELECTRIC FENCE		1000 W	
	B	SP10A	BVX3ECV TRENCH AND GROUND	4-10	OUTDOOR POLE MOUNTED LIGHTS	1-6	360 W	CONNECTED TO DAY/NIGHT SWITCH

NOTES

1. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH:
   1.1. SANS 10142
   1.2. MODEL PREAMBLES FOR TRADES, SECTION 'S' ELECTRICAL WORK
   1.3. TECHNICAL SPECIFICATION
2. ALL WIRING SHALL BE CARRIED OUT USING PVC CABLES IN PVC CONDUITS TYPE OF INSTALLATION-FLUSH
3. COLOUR OF LIGHT SWITCHES & SOCKET-OUTLET COVERS-WHITE
4. MOUNTING HEIGHTS ABOVE FFL
   4.1. LIGHT SWITCHES-1350
   4.2. SOCKET-OUTLETS-350
   4.3. DB -2000 TO TOP OF BOARD
   4.4. LUMINAIRES SHALL BE INSTALLED AS SHOWN ON PLAN
5. EARTH & NEUTRAL TERMINALS SHALL BE OF THE PRESSURE PLATE TYPE WITH CAPTIVE SCREWS
6. POWER/CONTROL CABLES IN ROOF SPACE SHALL BE INSTALLED ON CABLE RACKING
7. POWER/CONTROL CABLES AND REFRIGERANT PIPES IN ROOF SPACE IN CONTROL ROOM SHALL BE INSTALLED IN TRUNKING WITH COVERS
8. POWER/CONTROL CABLES AND REFRIGERANT PIPES ON OUTSIDE WALLS SHALL BE INSTALLED IN TRUNKING WITH COVERS
9. TRUNKING SHALL BE FABRICATED FROM 1mm SHEET STEEL, MEASURING 127x76,2 WITH CLIP-ON COVER. CORROSION PROTECTION: HOT-DIPPED GALVANISED TO SANS 1763. EXPOSED SURFACES ON OUTSIDE WALL SHALL BE BEIGE EPOXY-POWDER COATING
10. CONTROL CABLES FROM REMOTE CONTROL UNITS TO HANDLING UNIT SHALL BE SURFACE MOUNTED WITHIN WHITE MINI TRUNKING ON WALL
11. LIGHT DUTY CABLE TRAYS SHALL BE INSTALLED IN ROOF VOID WITH OVERALL WIDTH 50mm. FOR CABLES & EARTH WIRE RUNNING FROM TRUNKING TO THE UNITS
12. DRAIN PIPE FROM HANDLING UNITS SHALL BE POLYCOP PIPE WITH SUITABLE CONNECTOR, TYPE JG SPEEDFIT OR CONNEX, BETWEEN POLYCOP AND UNIT DRAIN PIPES. PVC TAPE IS NOT ACCEPTABLE. WATER SHALL BE DISCHARGED TO THE APRON SLAB (PIPE SHALL RUN IN TRUNKING, & ON OUTSIDE WALL FIXED ON MASTER BATS SADDLES & DISCHARGED 2 COURSE OF BRICKS ABOVE APRON SLAB & 200mm FROM WALL
13. MOUNTNG BRACKETS FOR OUTDOOR UNITS SHALL BE CANTILEVER SUPPORT ARMS TYPE OL-CA0 FROM O-LINE OR EQUAL WITH STAINLESS STEEL BOLTS/WASHERS/NUTS
14. ALL AIRCONDITIONING UNITS SHALL BE INSTALLED AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS

AIRCONDITIONING UNITS SCHEDULE:

PLAN REF	DESCRIPTION	COOLING CAPACITY	SUPPLIER	No A/C UNIT
ACU/AHU1 & 2	WALL MOUNTED UNIT WITH HEATPUMP	3.1kW	MITSUBISHI	MSZ-DM35VA MUZ-DM35VA

SCHEDULE OF LUMINAIRES WITH LAMPS

PLAN REF	DESCRIPTION	SUPPLIERS	CAT No
A	SURFACE MOUNTED LED LUMINAIRE. COLOUR TEMP. 4000K.	LASCON LIGHTING	LBP-24-S-60W-LED/EMG
C	CEILING AND WALL LUMINAIRE. COLOUR TEMP. 4000K.	LASCON LIGHTING	ROMA 21W-LED

ELECTRICAL LEGEND:
(IN ACCORDANCE WITH NRS002)

- CIRCUIT BREAKER
- SWITCH-DISCONNECTOR
- CABLE GLAND WITH EARTH TAG
- EARTHSTUD
- TERMINALS

REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE	REFERENCE DRAWINGS

APPROVED BY
DATE 13/02/2025

CHECKED BY
DATE

DRAWN BY
DATE 13/02/2025

SCALE NTS

Eskom

Eskom Holdings SOC Ltd
Reg No 2002/015527/30

PEMBROKE

ACCESS CONTROL BUILDING
ELECTRICAL INSTALLATION
AND SCHEMATIC DIAGRAM

©

DRAWING NUMBER	SHEET NUMBER	REVISION
PEM25P19-SE-E43	3	0

SIZE GROOTTE A1L