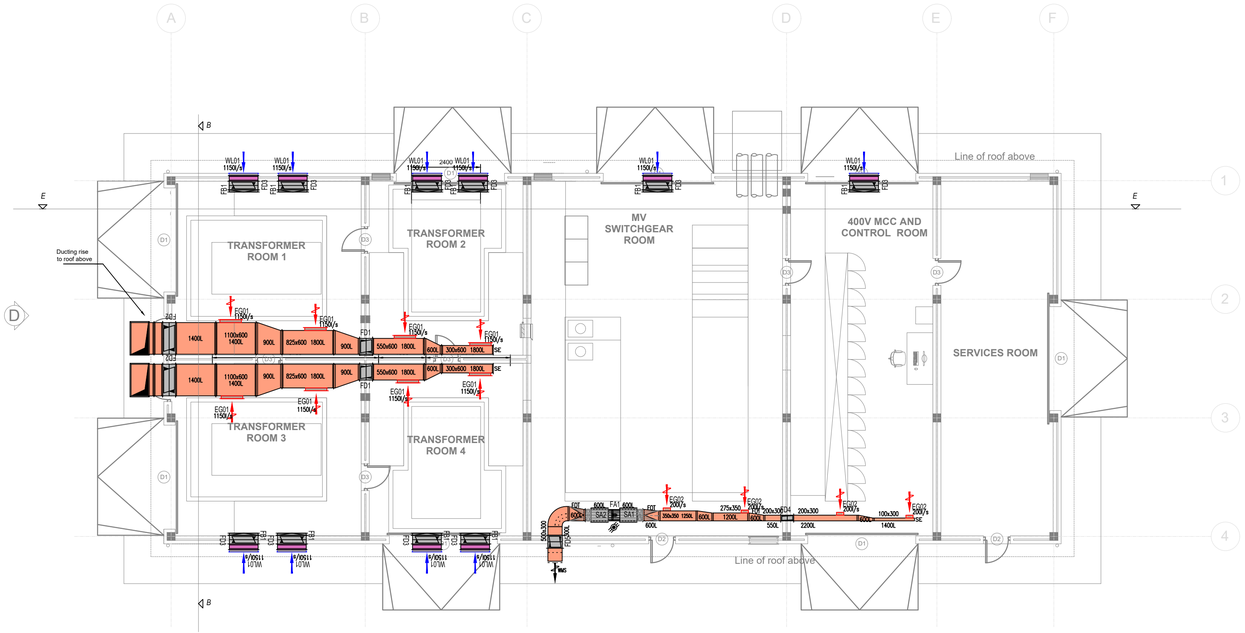


HVAC FLOOR PLAN
Scale 1:75

HVAC NOTES

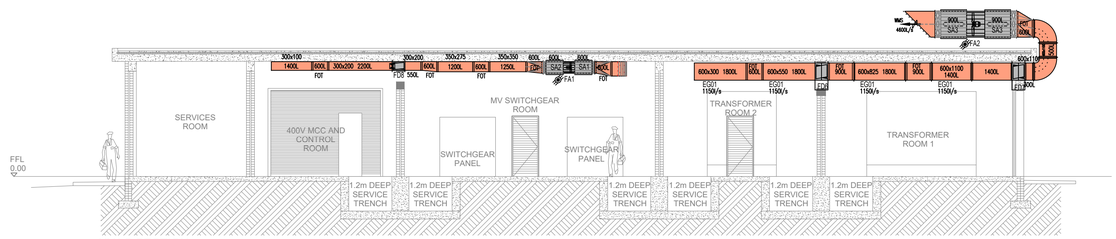
1. ALL DUCTING SHALL BE UNINSULATED
2. ALL DUCTING SHALL BE FLANGED
3. ALL GRILLES SHALL BE ALLUMINIUM AND ANODISED
4. INTAKE FIRE DAMPERS SHALL BE MOTORISED AND LINKED TO A FIRE DETECTION PANEL
5. EXTRACTION FIRE DAMPERS SHALL BE FUSIBLE LINK TYPE FIRE DAMPERS
6. ALL POWER CABLES OUTSIDE THE BUILDING SHALL BE IN GALVALNISED TRUNKING.
7. PROVIDE SLEEVES FOR VENTILATION DUCTS AND ALL OPENINGS.
8. REFER TO SCHEDULE FOR SIZES

ELECTRICAL NOTES:

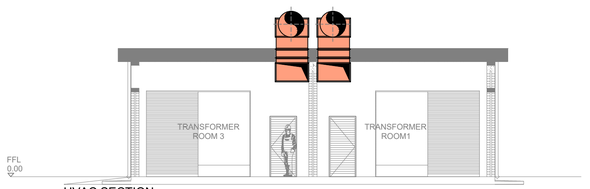
ALL WIRING/PIPING/SERVICES TO COMPLY WITH RELEVANT SANS SPECIFICATION.

POWER SUPPLY TO BE INSTALLED WITHIN 1M OF THE UNITS

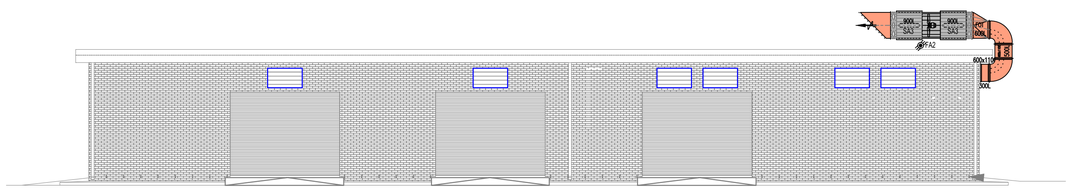
ALL HVAC EQUIPMENT SHALL BE CONNECTED TO A 7 DAY TIMER



HVAC SECTION
E-E
Scale 1:75



HVAC SECTION
B-B
Scale 1:75



North East Elevation View A
Scale 1:75

Fire Damper Schedule			
Code	Type	Size	Quantity
FD 1	Fusible Link Fire Damper	550x600	2
FD 2	Fusible Link Fire Damper	1100x600	2
FD 3	Motorised Fire Shutter Damper	1000x500	10
FD 4	Fusible Link Fire Damper	200x300	1
FD 5	Fusible Link Fire Damper	500x300	1

Filter Bank Schedule			
Code	Type	Size	Quantity
FB 1	Filter Bank	1000x500	10

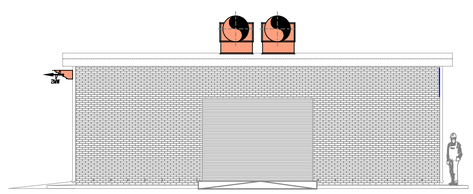
Fan Schedule			
Code	Type	Size	Quantity
FA 1	Axial Flow Fan	Ø400	1
FA 2	Axial Flow Fan	Ø900	2

Sound Attenuator Schedule			
Code	Type	Size	Quantity
SA 1	600 Long Circular SA	Ø400	1
SA 2	600 Long Circular SA	Ø400	1

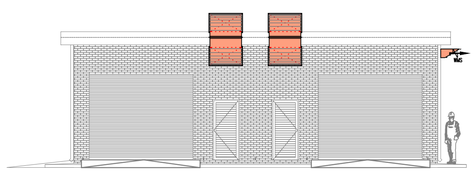
Terminal Schedule					
Code	Type	Size	Heater	Spigots Ø	Quantity
EG01	Duct EAG	750x500	-	-	12
EG02	Duct EAG	250x250	-	-	4
WL01	FA Louvre	1000x500	-	-	10

HVAC LEGEND

- Split Air-conditioned condenser unit
- Hideaway indoor Air-condition unit
- Cassette Air-condition unit
- Midwall split unit
- Insulated Air-conditioned air supply duct
- Insulated Return air duct
- Fresh air duct
- Extract air duct
- Sound attenuator
- Axial Flow fan
- Axial flow tube fan
- Ceiling mounted extract air fan
- Wall/Window mounted fan
- Flexible collar
- Three phase isolator
- Single phase isolator
- Return air grille
- Supply air diffuser
- Disc extract valve
- Door grille
- Weather Louvre
- Wired Controller
- Controller wiring
- Condensate Drain Pipes



South East Elevation View B
Scale 1:75



North West Elevation View D
Scale 1:75

CLIENT: TRANSNET national ports authority

Client Name:	
Designation & Section :	MECHANICAL ENGINEER: PORT ENGINEERING
Client Signature:	Project Phase: 0
Date:	
Contact No's:	

No.	DATE	REVISION DETAIL
0	13/4/23	Issued for Tender

Main Contractor: Stateway Switchboards

Main Contractor:	
ZML Africa Drawing No.	TNPA/2000

Consultant: Z.M.L Africa Group — Engineering Africa Forward

Site Address: Sturrock Dry Dock, Cape Town

Building Name: New Substation

Project Description: Sturrock Dry Dock Electrical Infrastructure Upgrades: Graving Dock Substaion - Sketch Plan

Drawing Description: VENTILATION LAYOUT

Drawn:	Ruel Mthethwa	Date:	22/3/2023
Designer / Checked :	Elvis Ntsoane	Scale:	1:100
Approved:	Elvis Ntsoane	Drawing Size:	A1
Prof Reg. No.	201470214	Revision No.	00
Signature:			

Drawing Number:

Site & Building No.	Floor No.	Descipline & Service Type

Sheet Number	Project Number	Proposal No.
1041-001-4004		000