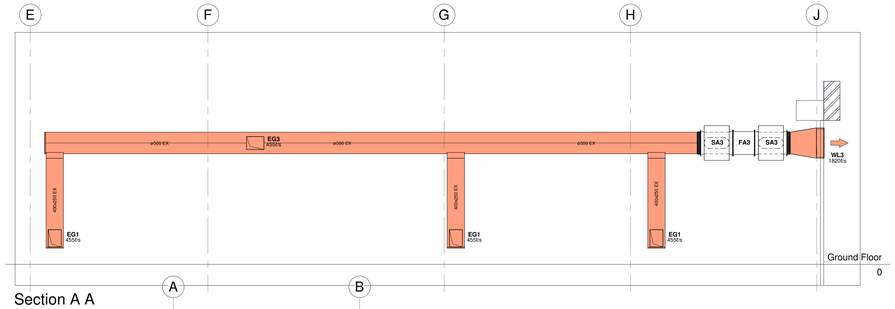
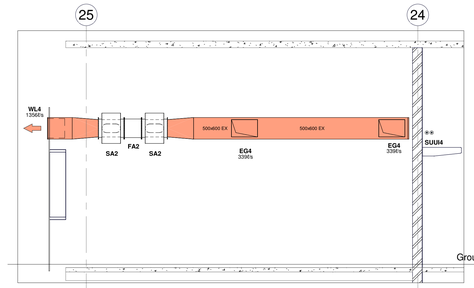


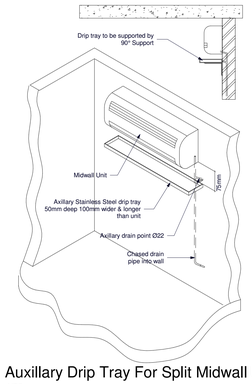
Section A A

1 : 50



Section F F

1 : 50



Auxillary Drip Tray For Split Midwall Unit

NTS

4GF Terminal Schedule																
		Dimentions										Connection Size				
Code	Type	Length (mm)	Width (mm)	Diameter (Ømm)	Heating Capacity (kW)	Throw Max (m)	Throw Min (m)	Static Pressure (Pa)	Noise Level (NC)	Volume Control Damper (Yes/No)	Master Diffuser Yes/No	Round (Ømm)	Length (mm)	Width (mm)	No. Off	Notes
WL1	Weather Louvre	400	700					40	30				400	700	2	
WL2	Weather Louvre	500	900					40	30				500	900	1	
WL3	Weather Louvre	700	1100					40	30				700	1100	2	
WL4	Weather Louvre	500	1600					40	30				500	1600	2	
WL5	Weather Louvre	500	600					40	30				500	600	3	
SG1	SAG 45°	300	300			0.0	0	40	30	Yes		200			2	
SG2	SAG 45°	200	200		0.0	0.0	0	40	30	Yes			200	200	1	
SG3	SAG 45°	400	600		0.0	0.0	0	40	30	Yes			400	600	2	
SG4	SAG 45°	250	250			0.0	0	40	30	Yes		150			1	
EG1	EAG 45°	400	300					40	30	Yes			400	300	6	
EG3	EAG 45°	300	400					40	30	Yes			300	400	2	
EG4	EAG 45°	400	600					40	30	Yes			400	600	4	
EG5	EAG 45°	250	400					40	30	Yes			250	400	2	
DG1	Door Grille	400	400					40	30						4	
DV02	Disk Valve			200				40	30	Yes		150			2	
DV03	Disk Valve			250				40	30	Yes		200			8	

4GF Split Units								
		Capacity			Power			
Code	Type	Cooling Total (kW)	Cooling Sensible (kW)	Heating Capacity (kW)	Air Flow (l/s)	Phase (V/ph/Hz)	Power Absorbed (kW)	Weight (kg)	No. Off
SCUI1	Cassette	3.8	3	3.8	233			24	3
SCUI4	Cassette	10.5	8.4	10.5	466			28	1
SMUI1	Midwall	1.7	1.4	2.7	216			24	1
SMUI2	Midwall	2.65	2.1	2.7	216			24	1
SMUI3	Midwall	3.8	3	3.8	233			24	1
SMUI4	Midwall	5.27	4.2	5.3	250			26	2
SUU4	Underceiling	11.2	9	12.5	400				2

4GF Dampers							
				Dimentions			
Code	Type	Control	Blade	Width (mm)	Height (mm)	Diameter (Ømm)	No. Off
DA1	Balancing	Manual	Butterfly			150	2
DA2	Balancing	Manual	Butterfly			200	2
DA3	Balancing	Manual	Butterfly			315	1
FD1	Fire	Motorized	OBD	600	500		2

4GF Water Cooled VRVIII Unit														
		Capacity			Physical Properties						Power			
Code	Type	Cooling Total (kW)	Cooling Sensible (kW)	Heating Capacity (kW)	Water Flow (l/s)	Width (mm)	Height (mm)	Length (mm)	Weight (kg)	Phase (V/ph/Hz)	Power Absorbed (kW)	Variable Speed (Yes/No)	No. Off
RCOU01	VRVII Water Cooled	26.7	0	31.50	1.52	781	1000	551	150	400/3/50	6.03		2

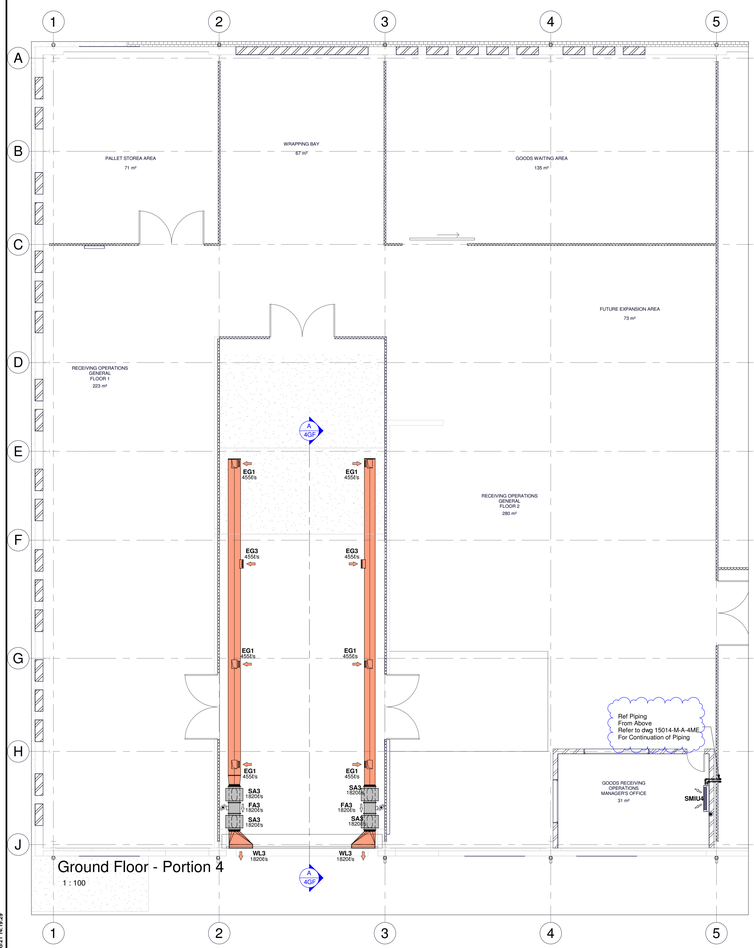
4GF Cooling Tower										
		Capacity		Physical Properties				Power		
Code	Type	THR (kW)	Water Flow (l/s)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Phase (V/ph/Hz)	Motor (kW)	No. Off
CT1	Closed Circuit		0	1950	1350	3000	1450	400/3/50	4.75	1

4GF Fans										
			Air Flow	Static Pressure	Total Pressure		Power			
Code	Type	Diameter (Ømm)	(l/s)	(Pa)	(Pa)	Phase (V/ph/Hz)	Motor (kW)	Variable Speed (Yes/No)	No. Off	Notes
FA1	Axial	315			0.0	400/3/50		Yes	4	
FA2	Axial	400			0.0	400/3/50	0.40	Yes	2	
FA3	Axial	500	1820	0.0	0.0	400/3/50	0.00	Yes	2	
FWD1	Wall	150	69	0.0	0.0	231/1/50	0.03	No	2	

4GF Sound Attenuator									
		Dimentions							
Code	Type	Width (mm)	Height (mm)	Length (mm)	Diameter (Ømm)	Air Flow (l/s)	Static Pressure (Pa)	No. Off
SA1	POD			600	315		50	4
SA2	POD			600	315		50	4
SA2	POD			600	400		50	4
SA3	POD			750	500	1820.0	50	4

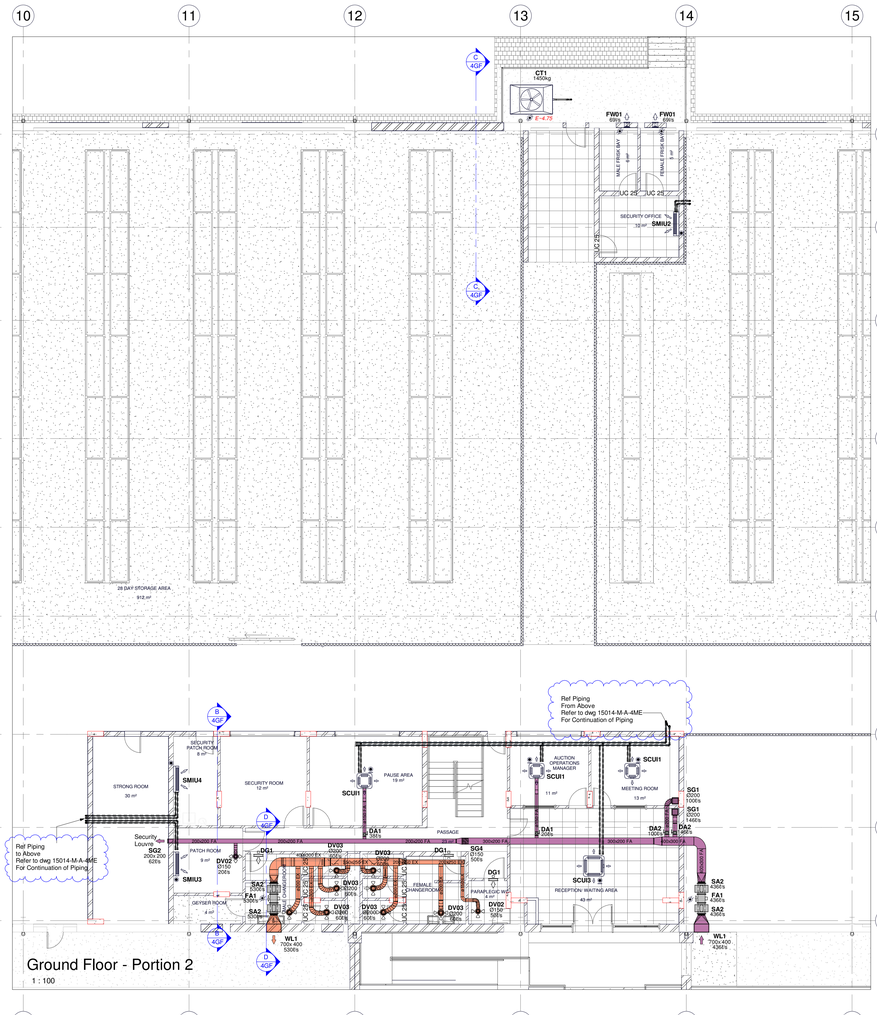
Ground Floor Key Plan

1 : 1000



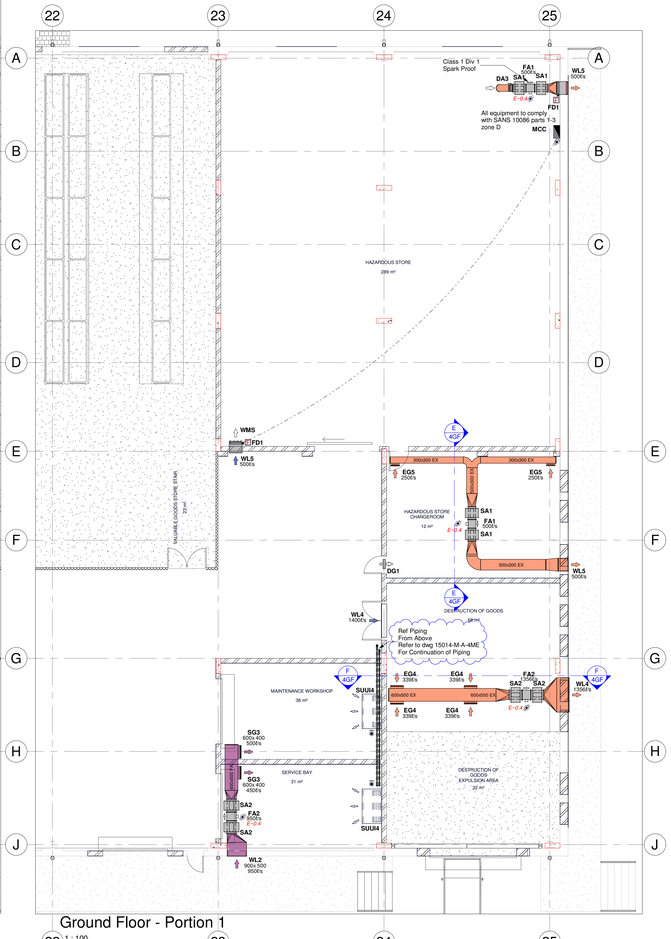
Ground Floor - Portion 4

1 : 100



Ground Floor - Portion 2

1 : 100



Ground Floor - Portion 1

1 : 100

Revisions:

Rev	Description	Date	By
A	For Information	02.03.2015	KM
B	Updated Architectural Layout	06.06.2015	KM
C	Updated Architectural Layout	08.06.2015	MH
D	Updated Architectural Layout; Extract fans and flows revised	18.10.2016	KM
E	Notes Added	06.07.2018	KM

Standard Mechanical Notes:

This drawing shall not be used as a construction/ installation drawing.

Routed and zones have been allocated to this service, locations dimensions are indicated of these.

To prepare his construction/ installation drawing, the (sub) contractor shall adhere to this co-ordination principle and shal inspect all the architect's drawings, including structural, and other available design drawings pertaining to that works. The (sub) contractor shall co-ordinate his work with the relevant contractors and all other services and ensure that in fixing his/her work it shall not obstruct the fixing of future maintenance of other services.

The (sub) contractor shall be responsible for the correct field dimensions; clearances and heights, quantities, fabrication processes and techniques of construction co-ordination of his/her work with that of all other trades, providing all devices necessary for safe and satisfactory operation.

Legend:

HVAC:

- SG4 / EG4 / EG5 - Ceiling Disk Valve
- Door Grille
- Ceiling Grille 45°
- Ceiling Sweep Fan
- Axial Fan
- Pod/round Sound Attenuator
- Tube Fan

Electrical:

- Sensor / Setpoint adjuster at 1800 AFFL Ø20mm conduit chased into wall with draw wire by electrical subcontractor
- Single phase electrical isolator by electrical sub-contractor
- Three phase electrical isolator by electrical sub-contractor
- 24 Volt Fire Signal to fire Damper
- E-# - Equipment Electrical load in kW

Plumber:

- Drain Point at floor Level by plumber
- Full bore drain point by plumber
- Drain point **BELOW** ceiling by plumber Refer to Unit details
- Drain point **ABOVE** ceiling by plumber Refer to Unit details

Architects Logo:

This drawing is based on Architects drawing No:

-

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SPOORMAKER & PARTNERS
MECHANICAL & ELECTRICAL CONSULTING ENGINEERS

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Project:

SARS STATE WAREHOUSE

Drawing Title:

Ground Floor
HVAC Layout

Designed	Drawn	Checked		Passed	Date	Size
		Quality	Design	PR Eng		A0
CK	KM				04/01/15	Scale As indicated

Drawing Status : **Issued for Information**

Project Number	Division	Service	Drawing Number	Revision
15014	M	A	4GF	E

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