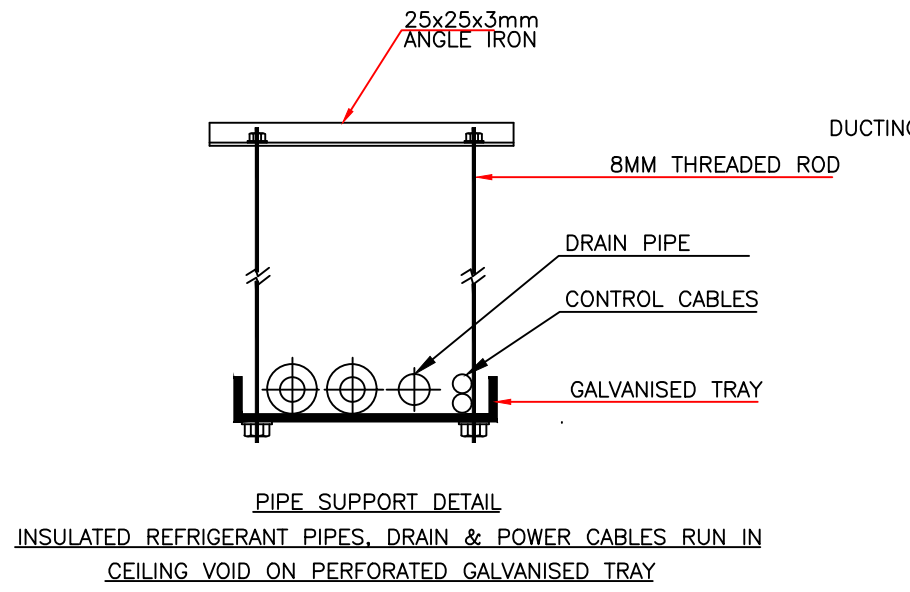
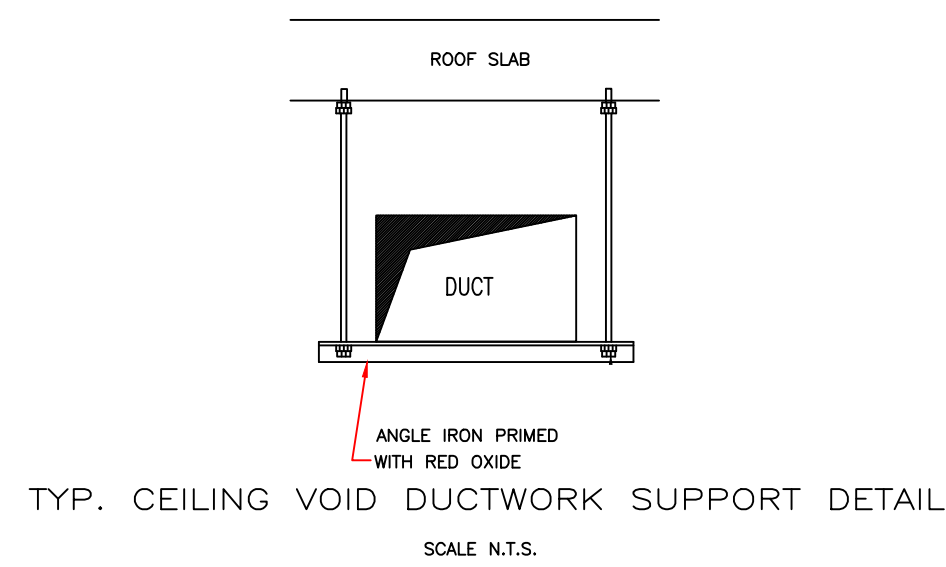




HIDEWAY UNITS (ESP @ 150Pa)				QTY
NO-90-47	TYPE	WH	HEAT RECOVERY	
	Cooling Capacity	kW	9	3
	Sound Pressure	dB(A)	37	
	Air Flowrate	m³/s	220-240/170/0.5/3	
	Power Supply	V/p/n/Hz	220-240/170/0.5/3	
	Dimension (WxDxH)	mm	470x1050x119	
	External Static Pressure	Pa	50 ~ 250	
NO-71-77	TYPE	WH	HEAT RECOVERY	
	Cooling Capacity	kW	7.1	1
	Sound Pressure	dB(A)	36	
	Air Flowrate	m³/s	30	
	Power Supply	V/p/n/Hz	220-240/170/0.5/3	
	Dimension (WxDxH)	mm	245x500x80	
	External Static Pressure	Pa	30 ~ 150	
NO-112-17	TYPE	WH	HEAT RECOVERY	
	Cooling Capacity	kW	11.2	1
	Sound Pressure	dB(A)	35	
	Air Flowrate	m³/s	51.3	
	Power Supply	V/p/n/Hz	220-240/170/0.5/3	
	Dimension (WxDxH)	mm	245x1000x80	
	External Static Pressure	Pa	30 ~ 150	
NO-140-17	TYPE	WH	HEAT RECOVERY	
	Cooling Capacity	kW	14	4
	Sound Pressure	dB(A)	35	
	Air Flowrate	m³/s	400 ~ 600	
	Power Supply	V/p/n/Hz	220-240/170/0.5/3	
	Dimension (WxDxH)	mm	245x1000x80	
	External Static Pressure	Pa	30 ~ 150	
NO-180-17	TYPE	WH	HEAT RECOVERY	
	Cooling Capacity	kW	18	4
	Sound Pressure	dB(A)	35	
	Air Flowrate	m³/s	400 ~ 600	
	Power Supply	V/p/n/Hz	220-240/170/0.5/3	
	Dimension (WxDxH)	mm	245x1000x80	
	External Static Pressure	Pa	30 ~ 150	
NO-225-17	TYPE	WH	HEAT RECOVERY	
	Cooling Capacity	kW	22.5	4
	Sound Pressure	dB(A)	44	
	Air Flowrate	m³/s	1128	
	Power Supply	V/p/n/Hz	220-240/170/0.5/3	
	Dimension (WxDxH)	mm	470x1335x119	
	External Static Pressure	Pa	50 ~ 250	

SCHEDULE OF EQUIPMENT				QTY
EXTRACTION FAN				
EF-01	EXTRACTION C/W MATCHING SOUND ATTENUATORS			4
	NOMINAL SIZE	mm	315	
EF-02	EXTRACTION C/W MATCHING SOUND ATTENUATORS			3
	NOMINAL SIZE	mm	400	
WM-01	WALL MOUNTED FAN			4
	NOMINAL SIZE	mm	100	
FC1	CEILING MOUNTED FAN			0
	NOMINAL SIZE	mm	100	
IN-LINE DUCT FAN-FRESH AIR				QTY
FAF-01	Inline duct fan with matching sound attenuators			1
	AIR FLOW RATES	l/s	634	
	POWER INPUT	kW	0.37	
	DIAMETER	mm	500	
	POWER SUPPLY	V/ph/Hz	415/3/50	
FAF-02	Inline duct fan with matching sound attenuators			1
	AIR FLOW RATES	l/s	843	
	POWER INPUT	kW	0.37	
	DIAMETER	mm	500	
	POWER SUPPLY	V/ph/Hz	415/3/50	
	WEIGHT	kg	--	

SCHEDULE OF EQUIPMENT				
BS UNITS (CENTRALIZED)				QTY
BS-03	TYPE		VRV HEAT RECOVERY	
	Max capacity index of indoor units	—	400	
	No. of Branches	No.	4	1
	Power Supply	V/ph/Hz	220~240/1/50	
	Dimension (HxWxD)	mm	298x370x430	
BS-02	TYPE		VRV HEAT RECOVERY	
	Max capacity index of indoor units	—	750	
	No. of Branches	No.	10	1
	Power Supply	V/ph/Hz	220~240/1/50	
	Dimension (HxWxD)	mm	298x1060x430	
BS-01	TYPE		VRV HEAT RECOVERY	
	Max capacity index of indoor units	—	750	
	No. of Branches	No.	16	1
	Power Supply	V/ph/Hz	220~240/1/50	
	Dimension (HxWxD)	mm	298x1060x430	

<u>SCHEDULE OF EQUIPMENT</u>				QTY
BS UNITS (CENTRALIZED)				
BS-03	TYPE		VRV HEAT RECOVERY	1
	Max capacity index of indoor units	—	400	
	No. of Branches	No.	4	
	Power Supply	V/ph/Hz	220~240V/1/50	
	Dimension (HxWxD)	mm	298x370x430	
BS-01	TYPE		VRV HEAT RECOVERY	2
	Max capacity index of indoor units	—	750	
	No. of Branches	No.	16	
	Power Supply	V/ph/Hz	220~240V/1/50	
	Dimension (HxWxD)	mm	298x1060x430	

WEATHER LOUVRE (WL)					
TAG No.	TYPE	DIMENSIONS (mm)	AIR QTY. EACH (1/4)	SPECIAL REQUIREMENTS	QTY.
WL-01	System/Air or similar	1250x355	LISTED	-	2
WL-02	System/Air or similar	830x355	LISTED	-	2

SCHEDULE OF AIR TERMINALS			
SUPPLY AIR DIFFUSERS			
SAG-01	Fixed square pattern: plain, con. grille		QTY
	16" SQUARE, 100% R/A	1500	15
	PLAIN METAL 1/2" A	50-50	
SAG-02	Fixed square pattern: plain, con. grille		
	16" SQUARE, 100% R/A	1000	20
	PLAIN METAL 1/2" A	70-30	
SAG-03	Fixed square pattern: plain, con. grille		
	16" SQUARE, 100% R/A	1500	18
	PLAIN METAL 1/2" A	100-200	
RETURN AIR GRILLES			
R021	Fixed square pattern: plain, con. grille		QTY
	16" SQUARE, 100% R/A	1000/600	2
	PLAIN METAL 1/2" A	100-400	
R022	Fixed square pattern: plain, con. grille		
	16" SQUARE, 100% R/A	1200/600	4
	PLAIN METAL 1/2" A	200-800	
FILTER PLENUM WITH FILTERS			
FB1	Filter plenum with filter, dry filter mounter & access door		QTY
	16" SQUARE, 100% R/A	1000/600	2
	PLAIN METAL 1/2" A	100-400	
	Quantity	No	1
	Material	Steel	STAINLESS
	Weight	kg	

- | NOTES AND SPECIFICATIONS | |
|--------------------------|---|
| 1. | ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE N.B.R. SANS 10400 AND LOCAL AUTHORITY REGULATIONS. |
| 2. | THE DRAWING IS NOT TO BE SCALED. |
| 3. | ANY DISCREPANCIES ARE TO BE IMMEDIATELY REPORTED TO THE ARCHITECT. |
| 4. | ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION. |

HVAC NOTES:

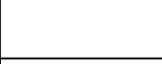
1. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES TO ENSURE NO CLASHES ARE ENCOUNTERED DURING CONSTRUCTION.
2. THIS DRAWING IS MERELY A GUIDE AND NO DIMENSIONS SHOULD BE TAKEN DIRECTLY FROM IT. ALL DIMENSIONS TO BE VERIFIED ON SITE.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH NATIONAL BUILDING REGULATIONS AND BUILDING STANDARDS ACT (ACT 107 OF 1977)
4. DUCTING INSTALLATION IN ACCORDANCE TO SANS 1238

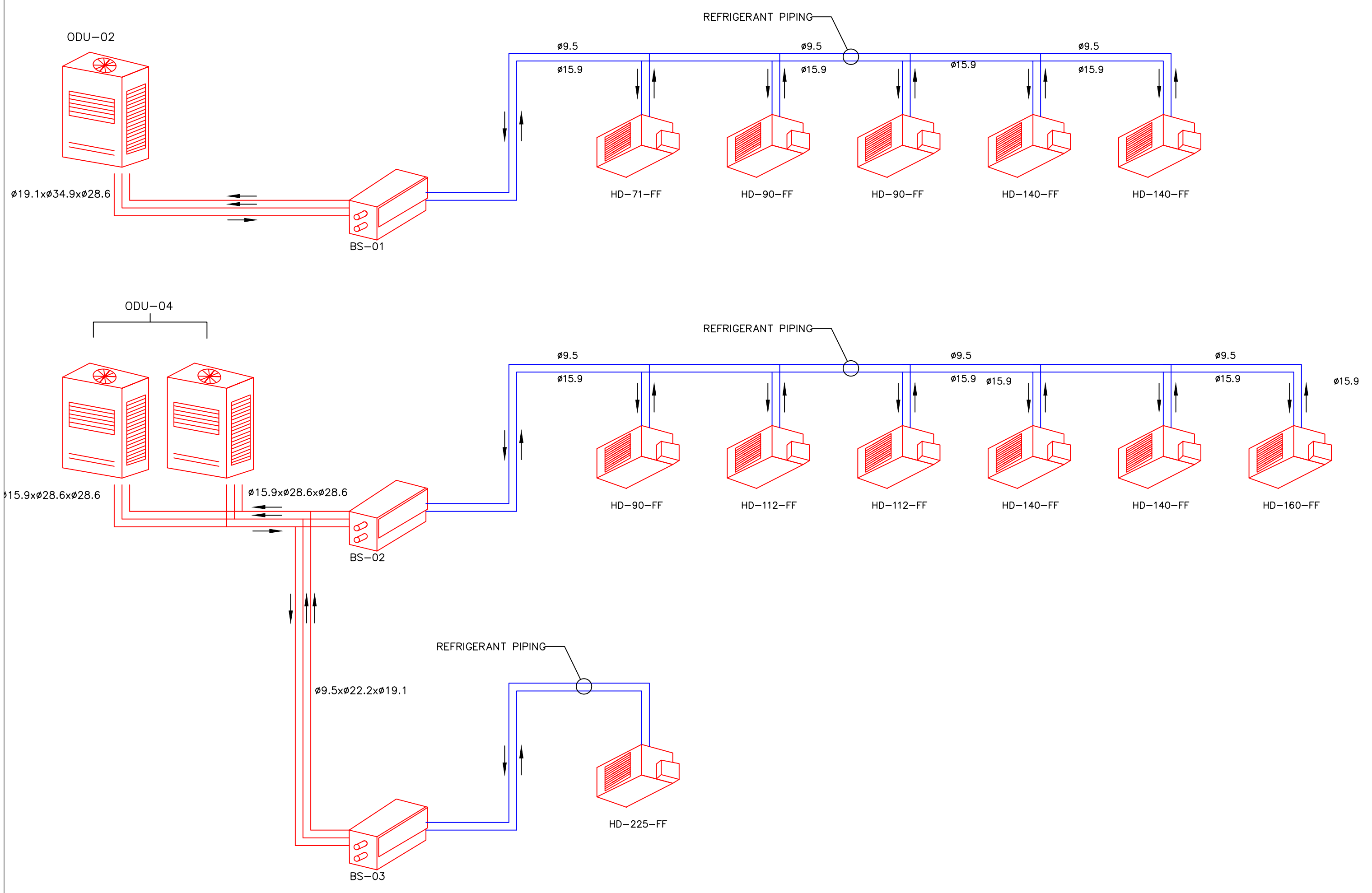
CONDENSATE PIPING NOTES:

ALL CONDENSATE PIPING CONNECTIONS TO DRAINAGE TO INCLUDE Ø50mm P-TRAP & ONE-WAY VALVE BEFORE STACK.

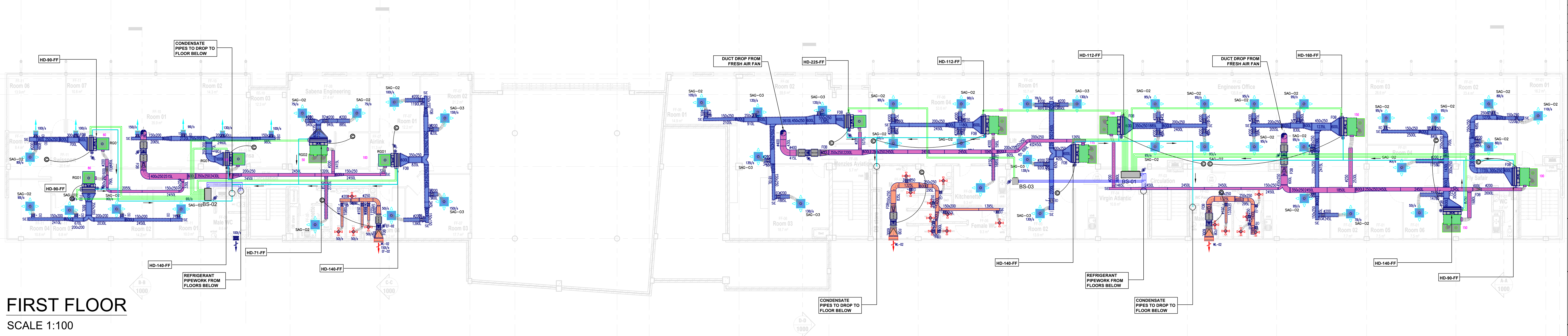
DUCTING NOTES:

1. ALL NEW DUCTING TO BE MANUFACTURED TO SMACNA HVAC DUCT SPECIFICATION.
2. DUCTING METHOD:
- | | | |
|--------------|-------------|-------------|
| LONGEST SIDE | 0-600 S & D | |
| LONGEST SIDE | 601-1200 | MEZZ FLANGE |
3. DUCT SUPPORTS:
- | <u>LONGEST SIDE</u> | <u>SUPPORT MATERIAL</u> | <u>SPACING</u> |
|---------------------|-------------------------|----------------|
| 300x300 | 0.8 G.S.M. CHANNEL | 3000 |
| 600x900 | 0.8 G.S.M. CHANNEL | 1800 |
| 600x1200 | 1.0 G.S.M. CHANNEL | 1200 |

Approvals (Sign Off):			
Name	Company	Date	Signature
Vuyolwethu Nodana	ACSA	17-09-24	
Karabo Thebe	ACSA		
Jennifer Smith	ACSA		
Gareth Muedi	ACSA		
Ntombonolo Genti	ACSA	21/11/2024	
Mark Maclean	ACSA		
Sofako Mokoko	ACSA		
Maheshwari Modiba	2BLN	12/07/2024	
Ikumetshwe Moshokoa	2BLN	12/07/2024	



FIRST FLOOR: VRV HEAT RECOVERY SYSTEM SCHEMATIC
SCALE: NTS



FOR DOOR GRILLE LAYOUT
REFER TO DRAWING
JD-2302-M-MA-102-A

A	DETAILED DESIGN LAYOUT	H0826A	LM
No.	DESCRIPTION	DATE	BY
REVISION			
CUSTOMER:	 ACSA - CAPE TOWN Administrative Building Cape Town International Airport Matroosdrif Cape Town 7690		
CONSULTANT:			
 2BLN (PTY) LTD 50 Mustang Avenue Pierre van Rensburg, Centurion PO Box 3003, The Reeds Garden, 0159 Tel: 086 177 7719 E-Mail: admin@2bln.co.za			
PROJECT:			
CAPE TOWN AIRPORT: AIR SIDE OFFICE BUILDING			
DRAWING TITLE:			
FIRST FLOOR PLAN: HEATING,VENTILATION & AIR-CONDITIONING LAYOUT			
DATE	SCALE	DRAWN	APPROVED
04/06/2024	1:100	L.MOSHOKOA	L.MOSHOKOA
DESIGN	CHECKED	DATE	
I.MOSHOKOVA	L.PKEKICHE	12/07/2024	
DESIGN ENGINEER APPROVAL:		DATE	
I.MOSHOKOVA		12/07/2024	
PROJECT ENGINEER APPROVAL:		DATE	
M.MODIBA <i>[Signature]</i>		12/07/2024	
CLIENT APPROVAL:		DATE	
		REVISION	
JD-2302-M-MA-102 A			