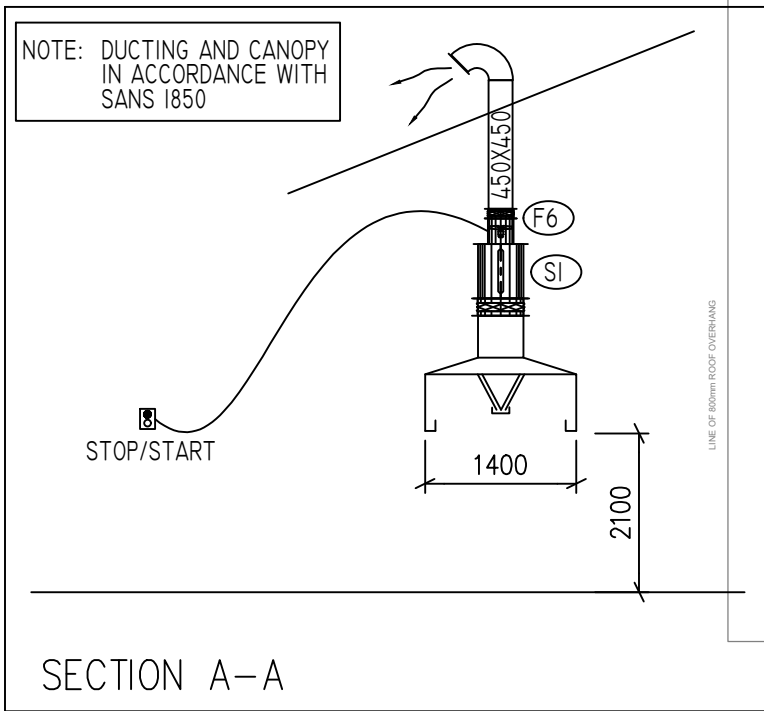


DATE	REV	DESCRIPTION
00-00	0000	0

PROJECT NOTES	REFER TO SITE RETICULATION LAYOUT FOR DB NAME	LEGEND
		<div><div>M1</div>Mid-Wall Split unit (Inverter Type) - Heatpump Reverse Cycle - 3.5kW (Nominal Capacity)</div> <div><div>M2</div>Mid-Wall Split unit (Inverter Type) - Heatpump Reverse Cycle - 5.0kW (Nominal Capacity)</div> <div><div>C1</div>Cassette Unit - 4-way blow (Inverter Type) - Heatpump Reverse Cycle - 7kW (Nominal Capacity)</div> <div><div>C2</div>Cassette Unit - 4-way blow (Inverter Type) - Heatpump Reverse Cycle - 10.5kW (Nominal Capacity)</div> <div><div>F1</div>In-Line Mixed Flow Fan 375/s @ 250Pa @ 1400m Alt c/w sound attenuators &amp; speed controller</div> <div><div>F2</div>In-Line Mixed Flow Fan 300/s @ 150Pa @ 1400m Alt c/w sound attenuators &amp; speed controller</div> <div><div>F3</div>Window/Wall Fan Xpelair GX6 Type - 83/s c/w wall sleeve</div> <div><div>F4</div>In-Line Mixed Flow Fan 265/s @ 250Pa @ 1400m Alt c/w sound attenuators &amp; speed controller</div> <div><div>F5</div>CEILING EXTRACT FAN XPELAIR CX10 TYPE</div> <div><div>F6</div>Axial Flow Fan (Spark Proof) 1100/s @ 260Pa @ 1400m Alt - 3PH c/w supporting brackets</div> <div><div>SI</div>SOUND ATTENUATOR - MELINEX LINED - 1.5D PODDED (TO MATCH FAN F6)</div> <div><div>SCI</div>V-Bank Stainless Steel 430 Canopy 1400x1400mm (600High) c/w vapour proof light fittings (2 off), oil trays &amp; S/S baffle filters</div> <div><div>CU</div>COLD ROOM COMPLETE AS PER DETAILED SPECIFICATION</div> <div><div>WL</div>Weather Louver 700x350mm - (Neck Size) c/w insect screen - Bronze Anodised</div> <div><div>WL2</div>Weather Louver 600x300mm - (Neck Size) c/w insect screen - Bronze Anodised</div> <div><div>FBI</div>Filter Bank c/w 50mm Thick washable pleated filter - 400x400mm</div> <div><div>D1</div>Rickard Air - CRD Type Dia 150mm Diffuser c/w fixing ring - White</div> <div><div>D2</div>Rickard Air - CRD Type Dia 200mm Diffuser c/w fixing ring - White</div> <div><div>DG</div>Door Grille 400x300mm - Natural Anodised</div> <div><div>DVI</div>Disc Valve Dia 150mm - White</div> <div><div>DV2</div>Disc Valve Dia 200mm - White</div> <div><div>S/S</div>STOP/START FOR THE EXTRACT FAN F6 - BY OTHERS</div> <div><div></div>CONDENSATE DRAIN PIPING</div> <div><div></div>REFRIGERATION PIPING - COPPER R410A TYPE (MAKSAL)</div> <div><div>O-II</div>2POLE ISOLATOR - BY OTHERS</div> <div><div>O-III</div>3POLE ISOLATOR - BY OTHERS</div> <div><div>▼</div>REMOTE CONTROLLER</div> <div><div>M</div>MOTION SENSOR</div>



HALL-W  
MECHANICAL LAYOUT  
SCALE 1:100

AC Unit Schedule

Unit Nr	M1	M2	C1	C2
Type	Inverter Mid-Wall	Inverter Mid-Wall	Inverter Cassette	Inverter Cassette
Cooling Capacity (kW)	3,5	5	7	10,5
Heating Capacity (kW)	3,5	5	7	10,5
Air Flow (l/s)	150	180	305	500
Power Requirements	240/1/50	240/1/50	240/1/50	400/3/50
Power Input (kW)	1,1	1,65	2,45	3,95
Refrigerant	R410A	R410A	R410A	R410A
Extras	-	-	Wired Remote Controller	Wired Remote Controller

Fan Schedule

Unit Nr	F1	F2	F3	F4	F5	F6
Type	In-Line Mixed Flow	In-Line Mixed Flow	Window/Wall	In-Line Mixed Flow	Ceiling	Axial Flow
Diameter (mm)	315	315	150	315	250	400
Air Flow (l/s)	375	300	83	265	80	1100
Static Pressure (Pa)	250	150	-	250	-	260
Alt (m)	1400	1400	1400	1400	1400	1400
Power Requirements	240/1/50	240/1/50	240/1/50	240/1/50	240/1/50	400/3/50
Power Input (kW)	0,26	0,26	0,03	0,26	0,03	0,55
Extras	Sound Att (600L), speed controller, 7-day timer	Sound Att (600L), speed controller, motion sensor	Motion Sensor	Sound Att (600L), speed controller, 7-day timer	-	Melinex Sound Att, Stop/Start

CONCEPT DRAWING	TENDER DRAWING	CONSTRUCTION DRAWING	AS-BUILT DRAWING
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONSULTING ENGINEERS	<div><div>FCE</div><div>CONSULTINGENGINEERS</div><div>39 Brebner Street Westdene 9301</div><div>TEL:+27 (0)51 403 8596</div><div>e-mail: admin@fceconsultingengineers.co.za</div></div>
PROJECT TITLE	DBSA FS MEGA SCHOOLS
CLIENT DETAILS	<div><div><div>DBSA</div><div>Development Bank of Southern Africa</div></div><div><div>education</div><div>Department of Education</div><div>FREE STATE PROVINCE</div></div></div> <div>FREE STATE DEPARTMENT OF BASIC EDUCATION</div>
CLIENT APPROVAL	
DRAWING DESCRIPTION	MP-HALL-W MECHANICAL LAYOUT
DESIGN	<div>H. HORN</div> <div>Pr Tech Mech: 2020300889</div>
CHECKED	<div>H. HORN</div> <div>Pr Tech Mech: 2020300889</div>
SCALE	<div>1:100</div> <div>DRAWN</div> <div>R.M</div> <div>DATE</div> <div>MAY 2021</div>
PROJECT NUMBER	<div>EE1525</div> <div>DRAWING NUMBER</div> <div>MP-HALL-W</div>