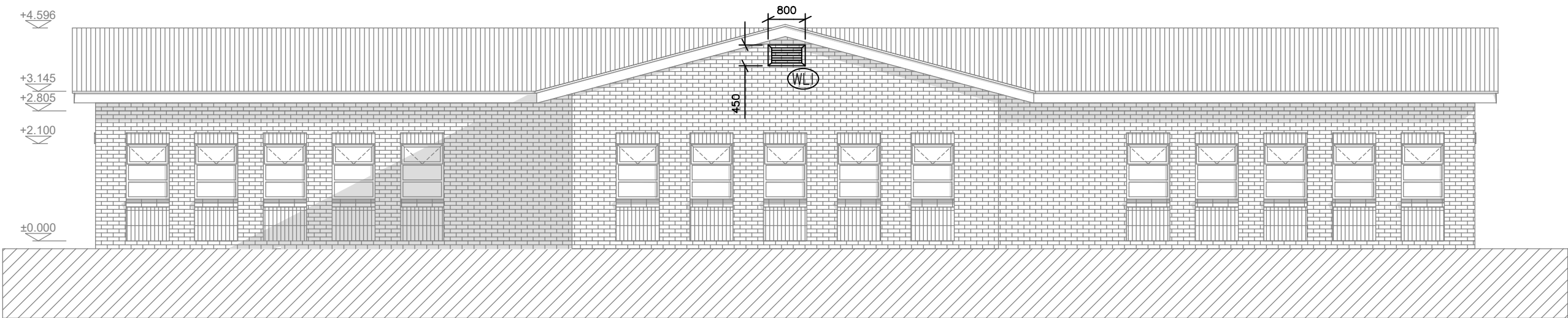
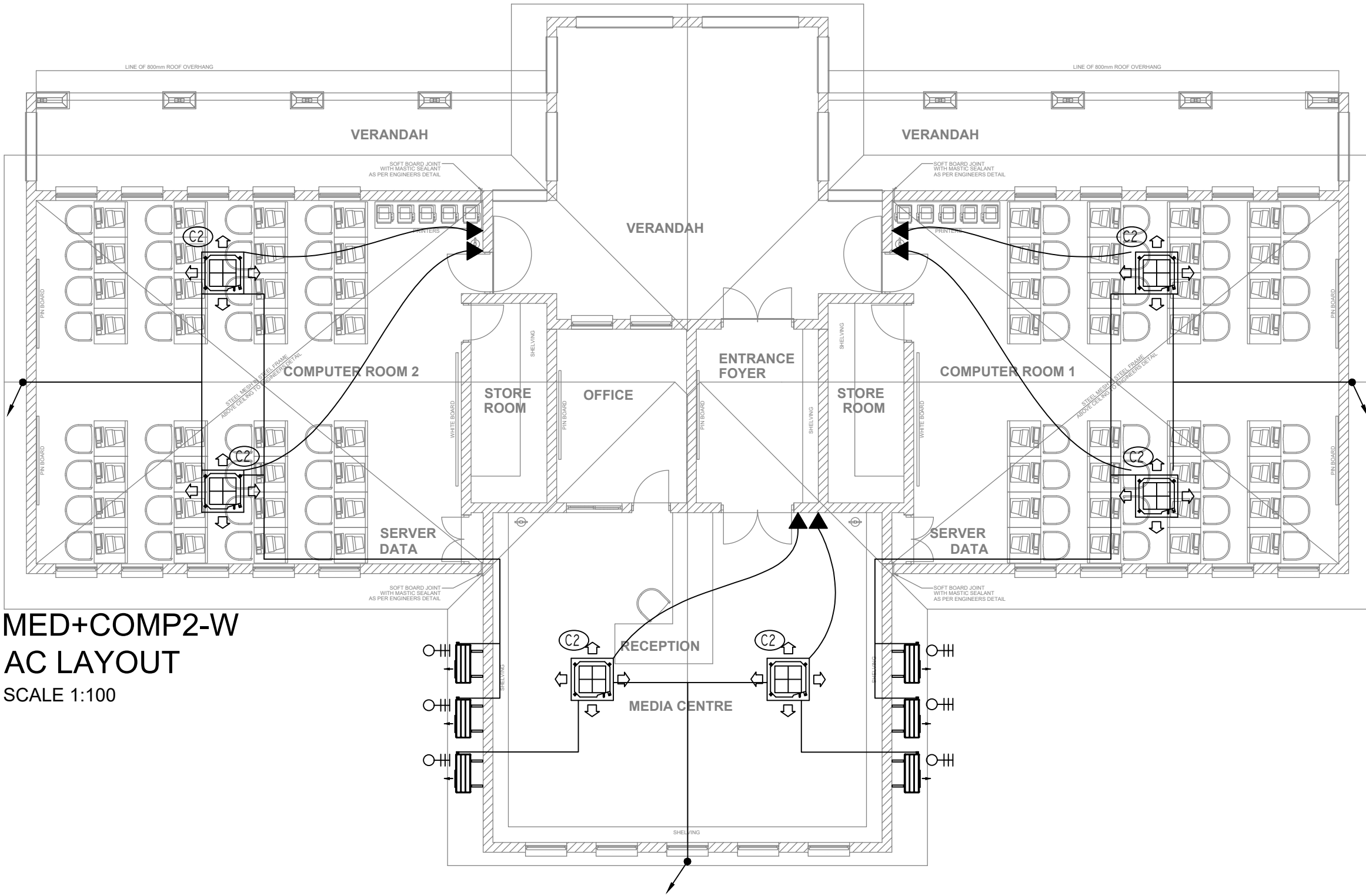
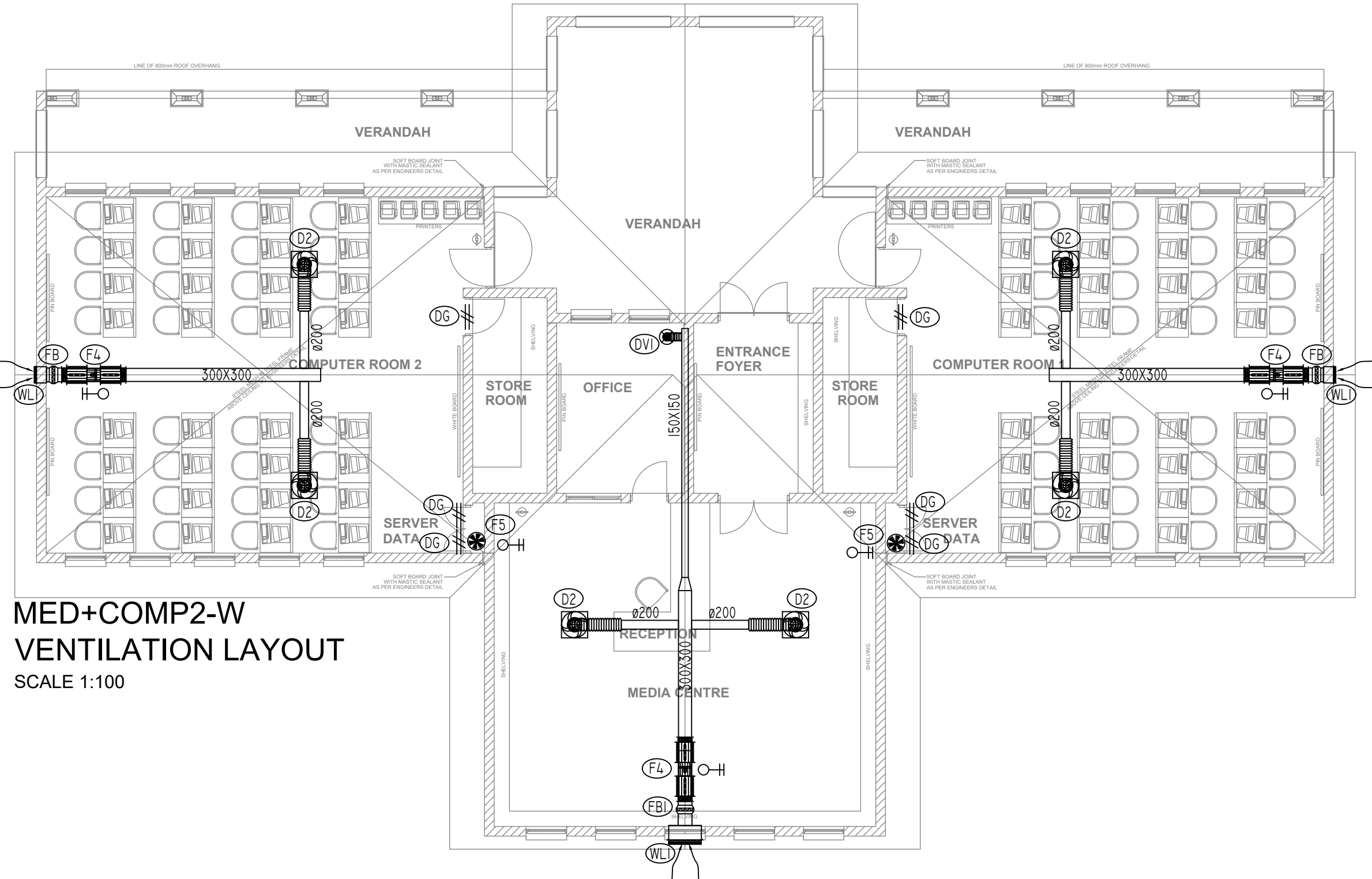


DATE	REV	DESCRIPTION
00-00	0000	0

REFER TO
SITE RETICULATION LAYOUT
FOR DB NAME

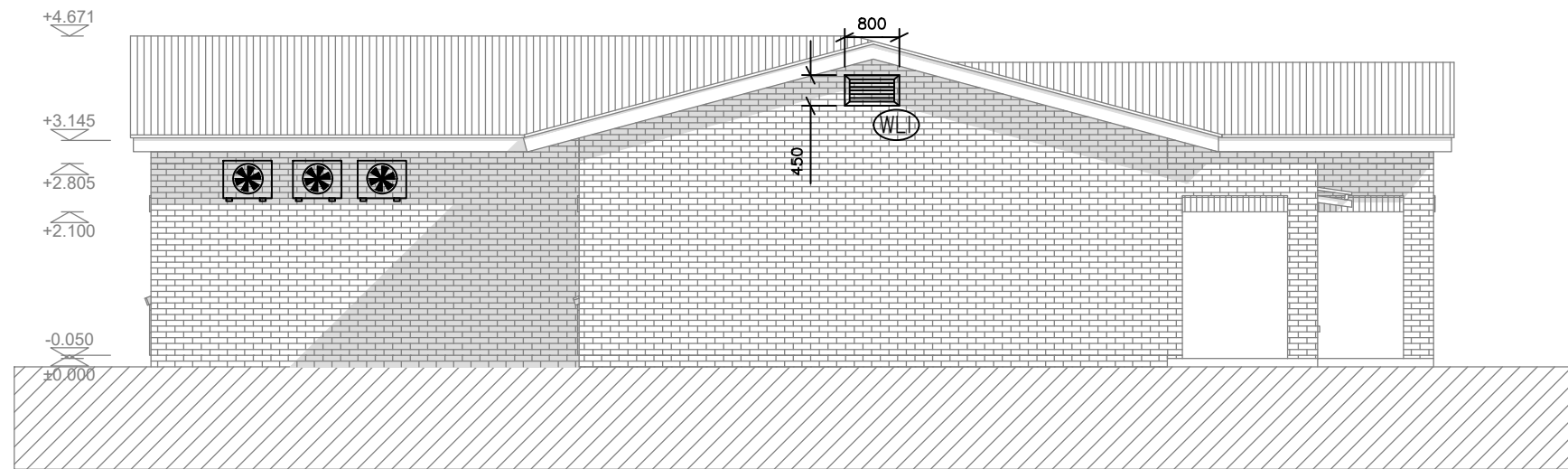
LEGEND	
(M1)	Mid-Wall Split Unit (Inverter Type) - Heatpump Reverse Cycle - 3.5kW (Nominal Capacity)
(M2)	Mid-Wall Split Unit (Inverter Type) - Heatpump Reverse Cycle - 5.0kW (Nominal Capacity)
(C1)	Cassette Unit - 4-way blow (Inverter Type) - Heatpump Reverse Cycle - 7kW (Nominal Capacity)
(C2)	Cassette Unit - 4-way blow (Inverter Type) - Heatpump Reverse Cycle - 10.5kW (Nominal Capacity)
(F1)	In-Line Mixed Flow Fan 375/s @ 250Pa @ 1400m Alt c/w sound attenuators & speed controller
(F2)	In-Line Mixed Flow Fan 300/s @ 150Pa @ 1400m Alt c/w sound attenuators & speed controller
(F3)	Window/Wall Fan Xpelair GX6 Type - 83/s c/w wall sleeve
(F4)	In-Line Mixed Flow Fan 265/s @ 250Pa @ 1400m Alt c/w sound attenuators & speed controller
(F5)	CEILING EXTRACT FAN XPELAIR CX10 TYPE
(F6)	Axial Flow Fan (Spark Proof) 1100/s @ 260Pa @ 1400m Alt - 3PH c/w supporting brackets
(S)	SOUND ATTENUATOR - MELINEX LINED - 1.5D PODED (TO MATCH FAN F6)
(SC1)	V-Bank Stainless Steel 430 Canopy 1400x1400mm (600High) c/w vapour proof light fittings (2 off), oil trays & S/S baffle filters
(CU)	COLD ROOM COMPLETE AS PER DETAILED SPECIFICATION
(WL1)	Weather Louver 700x350mm - (Neck Size) c/w insect screen - Bronze Anodised
(WL2)	Weather Louver 600x300mm - (Neck Size) c/w insect screen - Bronze Anodised
(FB1)	Filter Bank c/w 50mm Thick washable pleated filter - 400x400mm
(D1)	Rickard Air - CRD Type Dia 150mm Diffuser c/w fixing ring - White
(D2)	Rickard Air - CRD Type Dia 200mm Diffuser c/w fixing ring - White
(DG)	Door Grille 400x300mm - Natural Anodised
(DV1)	Disc Valve Dia 150mm - White
(DV2)	Disc Valve Dia 200mm - White
(S/S)	STOP/START FOR THE EXTRACT FAN F6 - BY OTHERS
CONDENSATE DRAIN PIPING	
REFRIGERATION PIPING - COPPER R410A TYPE (MAKSAL)	
2POLE ISOLATOR - BY OTHERS	
3POLE ISOLATOR - BY OTHERS	
REMOTE CONTROLLER	
MOTION SENSOR	



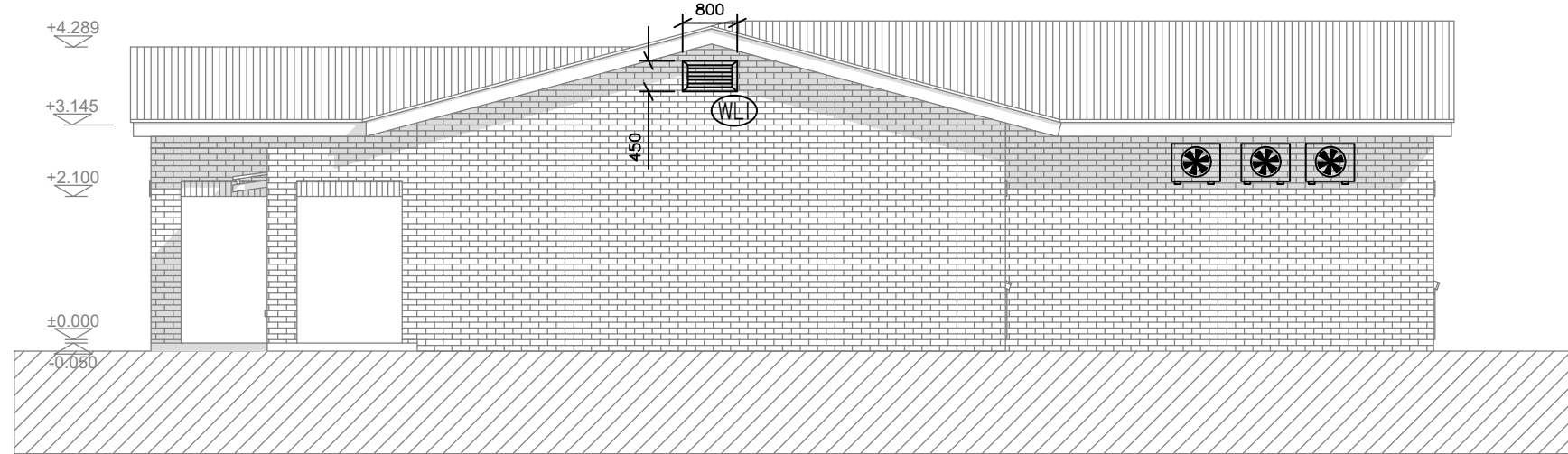
EAST ELEVATION
SCALE 1:100



WEST ELEVATION
SCALE 1:100



NORTH ELEVATION
SCALE 1:100



SOUTH ELEVATION
SCALE 1:100



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

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

CONCEPT DRAWING	TENDER DRAWING	CONSTRUCTION DRAWING	AS-BUILT DRAWING
■	□	□	□

CONSULTING ENGINEERS	 CONSULTING ENGINEERS 39 Brebner Street Westdene 9301 TEL:+27 (0)51 403 8596 e-mail: admin@fceconsultingengineers.co.za		
PROJECT TITLE	DBSA FS MEGA SCHOOLS		
CLIENT DETAILS	 DBSA Department of Education FREE STATE PROVINCE FREE STATE DEPARTMENT OF BASIC EDUCATION		
CLIENT APPROVAL			
DRAWING DESCRIPTION	MED+COMP2-W MECHANICAL LAYOUT		
DESIGN	H. HORN Pr Tech Mech: 2020300889		
CHECKED	H. HORN Pr Tech Mech: 2020300889		
SCALE	1:100	DRAWN R.M	DATE MAY 2021
PROJECT NUMBER	EE1525	DRAWING NUMBER	MED+COMP2-W