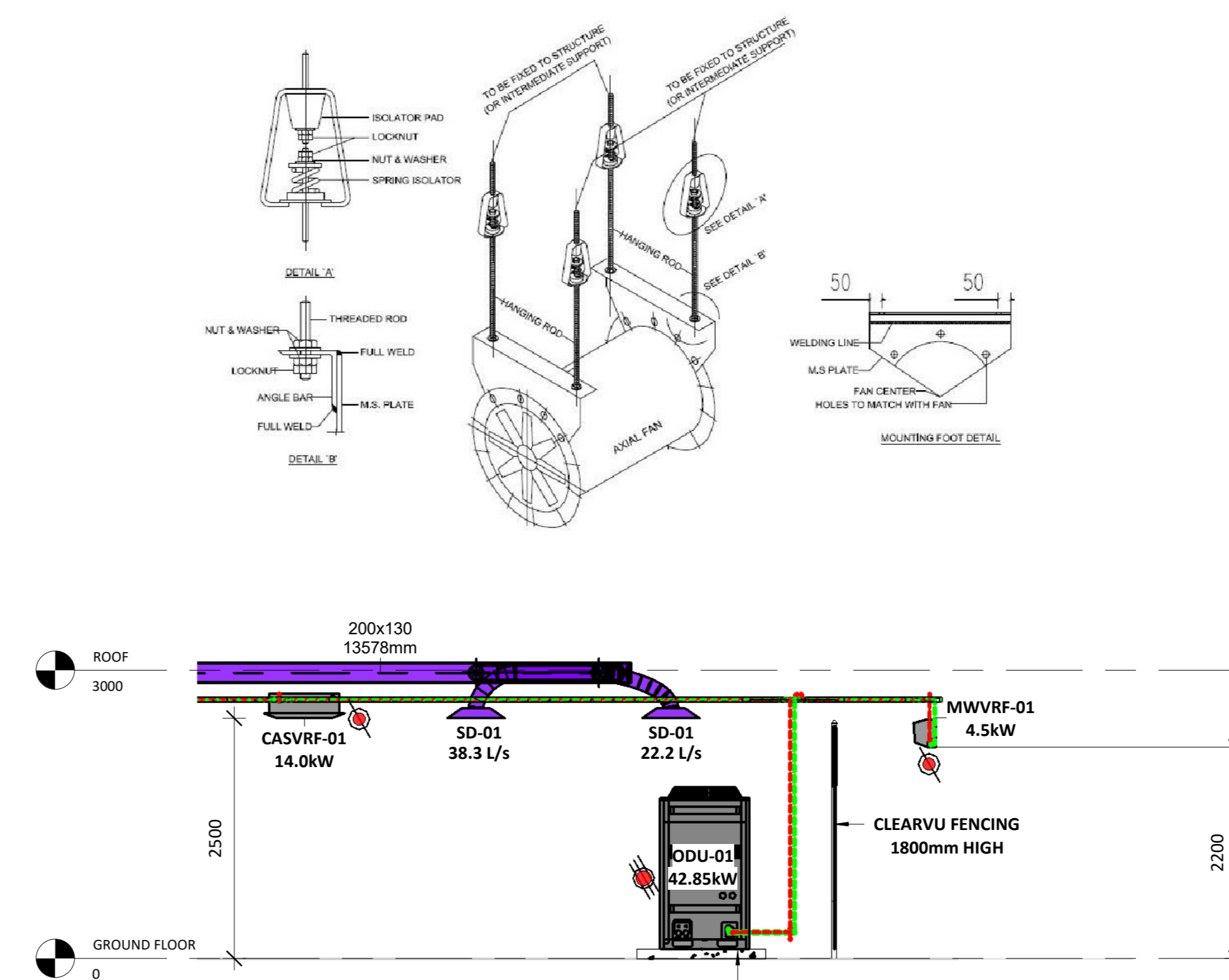


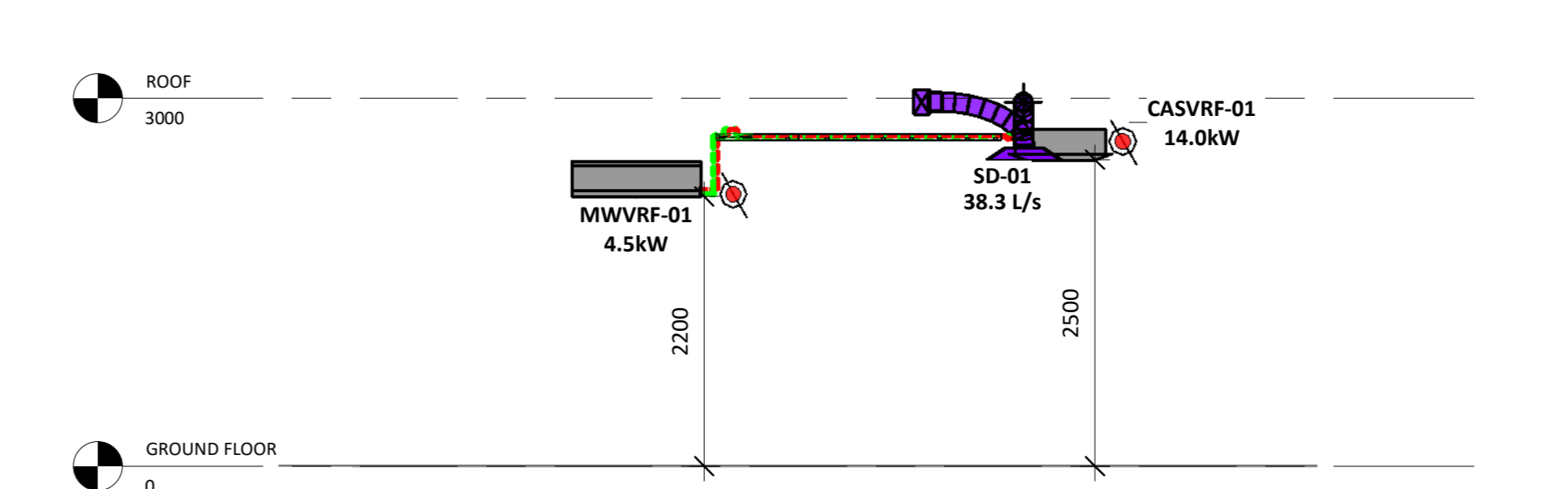
Air Terminal Schedule				
Mark	Count	Description	Size	Flow
Ceiling diffusers with square diffuser face				
SD-01	1	Ceiling diffusers with square diffuser face	150ø	10.8 L/s
SD-01	1	Ceiling diffusers with square diffuser face	150ø	15.9 L/s
SD-01	2	Ceiling diffusers with square diffuser face	150ø	18.2 L/s
SD-01	1	Ceiling diffusers with square diffuser face	150ø	19.4 L/s
SD-01	1	Ceiling diffusers with square diffuser face	150ø	22.2 L/s
SD-01	1	Ceiling diffusers with square diffuser face	150ø	36.8 L/s
SD-01	1	Ceiling diffusers with square diffuser face	150ø	37.4 L/s
SD-01	1	Ceiling diffusers with square diffuser face	150ø	38.3 L/s
Weather Louvre				
WL-02	1	Weather Louvre	300x200	0.0 L/s
Grand total: 10				

Mechanical Equipment Schedule							
ITEM	DESCRIPTION	COOLING CAPACITY	INPUT POWER	POWER SUPPLY	QTY	Refrigerant Liquid Connection Diameter	Refrigerant Suction Gas Connection Diameter
CASVRF-01	MIDWALL UNIT	14000 W	0.20 kW	230V/1Ph/50Hz	2	9.82mm	15.9mm
MW-ODU-03	MIDWALL UNIT	7100 W	0.10 kW	230V/1Ph/50Hz	1	6.35mm	15.9mm
MW-ODU-04	MIDWALL UNIT	7100 W	0.10 kW	230V/1Ph/50Hz	1	6.35mm	15.9mm
MWVRF-01	MIDWALL UNIT	4500 W	0.10 kW	230V/1Ph/50Hz	3	6.35mm	12.7mm
ODU-01	VRF	42850 W	7.60 kW	400V/3Ph/50Hz	1	9.82mm	15.9mm
ODU-03	HEAT PUMP	7100 W	0.10 kW	230V/1Ph/50Hz	1	12.7mm	28.6mm
ODU-04	HEAT PUMP	7100 W	0.10 kW	230V/1Ph/50Hz	1	6.35mm	15.9mm
SD-01	Fan Kit (WJ-200) Fan and Circular Silencer	781 W @200Pa			1	6.35mm	15.9mm
Grand total: 11							

TYPICAL INSTALLATION OF ROOF SUSPENDED AXIAL FAN



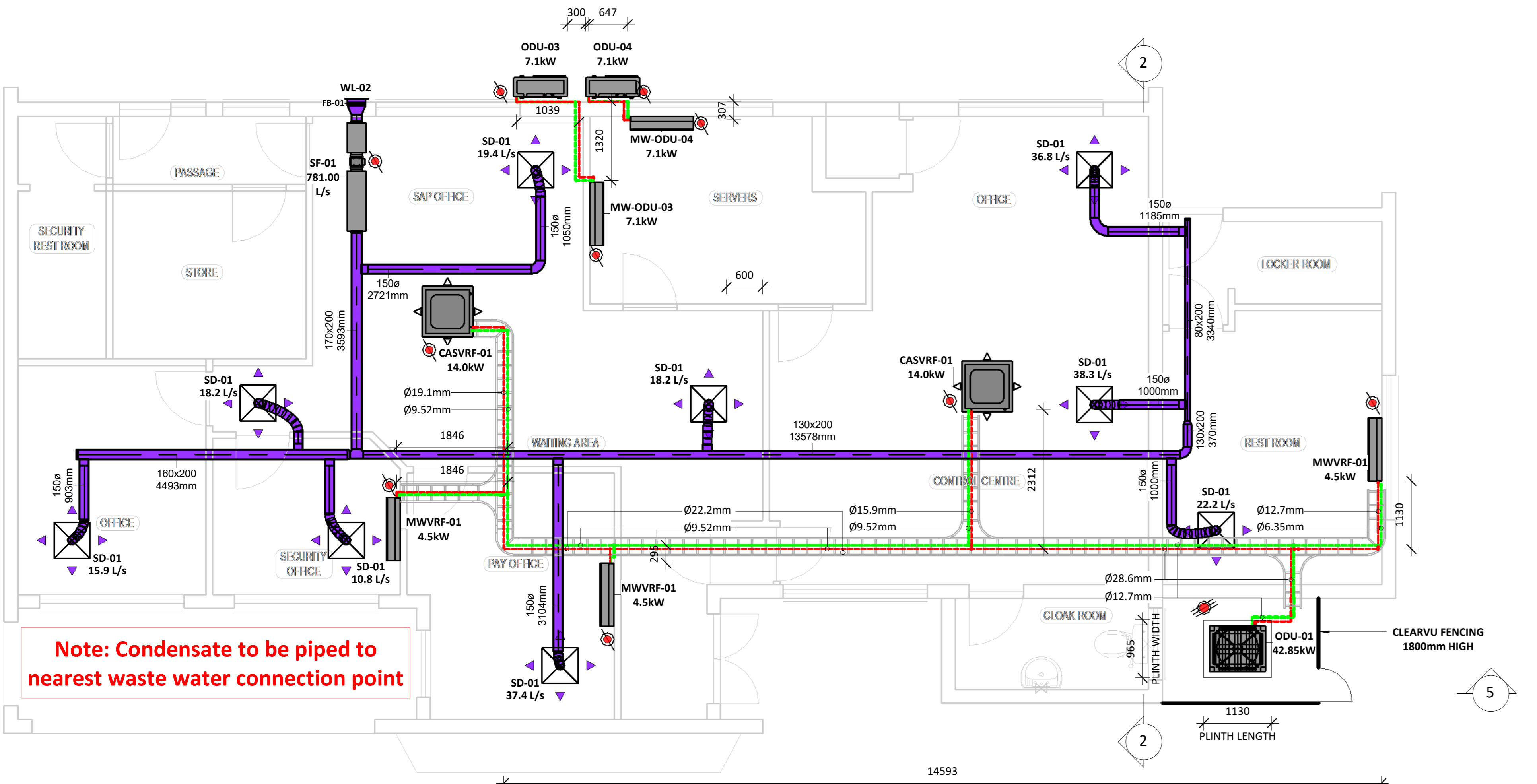
Section 2 SCALE 1 : 50



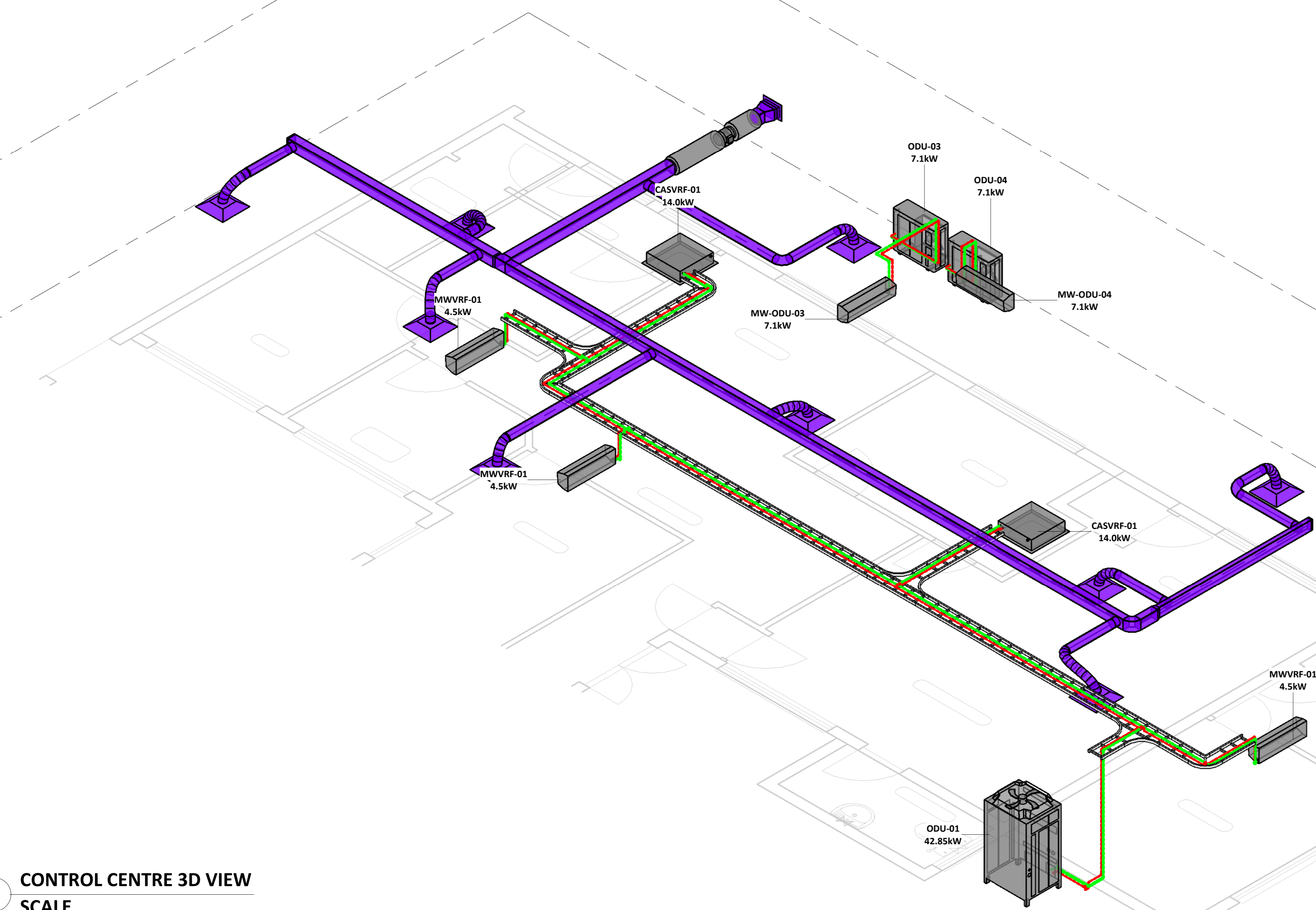
Section 1 SCALE 1 : 50

LEGEND	
GENERAL	ISOLATOR ( 3 PHASE )
	ISOLATOR ( 1 PHASE )
AIR TERMINALS	DISC VALVE (EXHAUST)
	WEATHER LOUVER
	Ø250mm CRD SUPPLY DIFFUSER
	RETURN GRILLE
MECHANICAL EQUIPMENT	ODU (CONDENSOR UNIT)
	ODU (VRF UNIT)
	AXIAL FAN
	MIDWALL SPLIT UNIT
	CEILING CASSETTE UNIT
	THERMOSTAT (AC UNIT)
REFRIGERANT PIPING	GAS LINE
	LIQUID LINE
	CONDENSATE
DUCTING	SUPPLY AIR
	RETURN AIR
	FRESH AIR
	EXHAUST AIR
	INDICATES EXISTING DUCTS & TO BE RETAINED

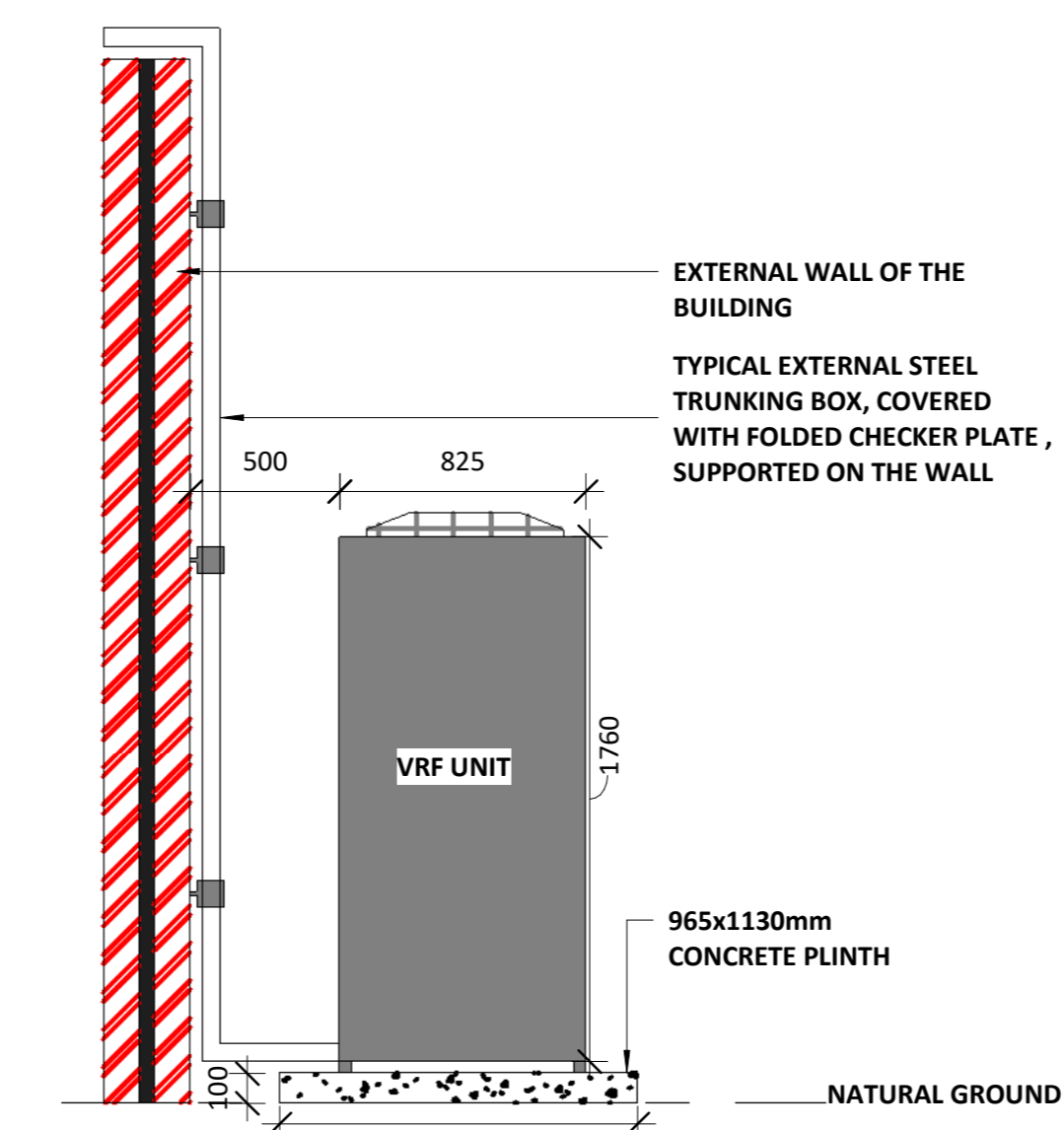
- NOTES:**
- ALL WORKS TO BE EXECUTED STRICTLY IN ACCORDANCE WITH THE HEALTH AND SAFETY ACT, ACT 85 OF 1993 AS AMENDED.
  - THE CONSTRUCTION REGULATIONS SHALL BE ADHERED TO IN THE EXECUTION AND PLANNING OF WORKS
  - WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
  - SHOP DRAWINGS SHALL BE ISSUED FOR APPROVAL A MINIMUM OF 14 DAYS PRIOR TO CONSTRUCTION COMMENCEMENT, SUCH SHOP DRAWINGS SHALL BE COMPLETED WITH THE ASSISTANCE OF THE MAIN CONTRACTOR AND VARIOUS TRADES AS REQUIRED TO ENSURE CO-ORDINATION PROVISIONS ARE MADE.
  - THIS DRAWING SHALL NOT BE SCALED, FIGURED DIMENSIONS ONLY SHALL BE USED.
  - THE PROVISION OF SIGNAGE AND INSTALLATION OF EXPOSED SERVICES SHALL BE IN ACCORDANCE WITH ARCHITECTS DRAWINGS.
  - EXPOSED SERVICES COLORS SHALL BE TO ARCHITECTS SPECIFICATION, CLIENT SPECIFICATION AND NATIONAL STANDARDS.
  - THIS DRAWING IS TO BE READ AND WORKS ARE TO BE EXECUTED IN ACCORDANCE WITH THE RELEVANT PROJECT SPECIFICATIONS, ENGINEERING CODES AND GOOD ENGINEERING PRACTICE.
  - PIPING SHALL BE SABS G2 MEDIUM WEIGHT PIPING DIAMETER 200 AND LARGER MAY BE SABS 719 4.5L.
  - PIPING Ø65mm AND ABOVE SHALL BE WELDED, FLANGED OR CLAMSON COUPLED, PIPING BELOW Ø65mm SHALL BE BS SCREWED; ALL IN ACCORDANCE WITH PROJECT SPECIFICATIONS, NATIONAL REGULATIONS AND GOOD ENGINEERING PRACTICE.
  - PIPING INSULATION ON PIPING Ø200mm AND ABOVE SHALL BE HIGH DENSITY POLYSTYRENE, 30mm THICK, PIPING INSULATION ON PIPING BELOW Ø200mm SHALL BE HIGH DENSITY POLYSTYRENE, 25mm THICK.
  - MYLAR SHEATH VAPOUR BARRIER TO BE EMPLOYED.
  - ALL CHILLED PIPING IN ACCESS FLOOR VOID AND CEILING VOID TO BE INSULATED AND CLAD IN GALVANISED SHEET 0.6mm t
  - ALL EXPOSED CHILLED WATER PIPE AND CONDENSATE DRAINS IN CORRIDORS AND PASSAGES TO BE IN A BRUSHED STAINLESS STEEL CONDUIT
  - ALL PIPING AND TO BE INSULATED AND CLAD IN SHINY STAINLESS STEEL 0.6mm t
  - PIPING SUPPORTS SHALL BE PROVIDED AT ALL CHANGES IN PIPING DIRECTION AND AT A MAXIMUM SPACING AS INDICATED IN THE PIPING SUPPORT TABLE BELOW.
  - "ROUGH-IN" (TACK AND LOOSELY SUPPORT) ALL PIPING AND FITTINGS FOR THE APPROVAL OF THE ENGINEER PRIOR TO FULL WELDING AND FIRM FIXING.
  - ALL DISCREPANCIES BETWEEN THIS DRAWING AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE RESPONSIBLE ENGINEER.
  - FIRE STOPPING SHALL BE PROVIDED AT ALL FIRE BARRIERS AND FIRE WALLS BY THE RESPONSIBLE FIRE PROOFING CONTRACTOR.
  - THE APPROVAL OF THE STRUCTURAL ENGINEER SHALL BE SOUGHT FOR ALL PIPING SUPPORT METHODS WHERE STRUCTURAL FIXING IS EMPLOYED.



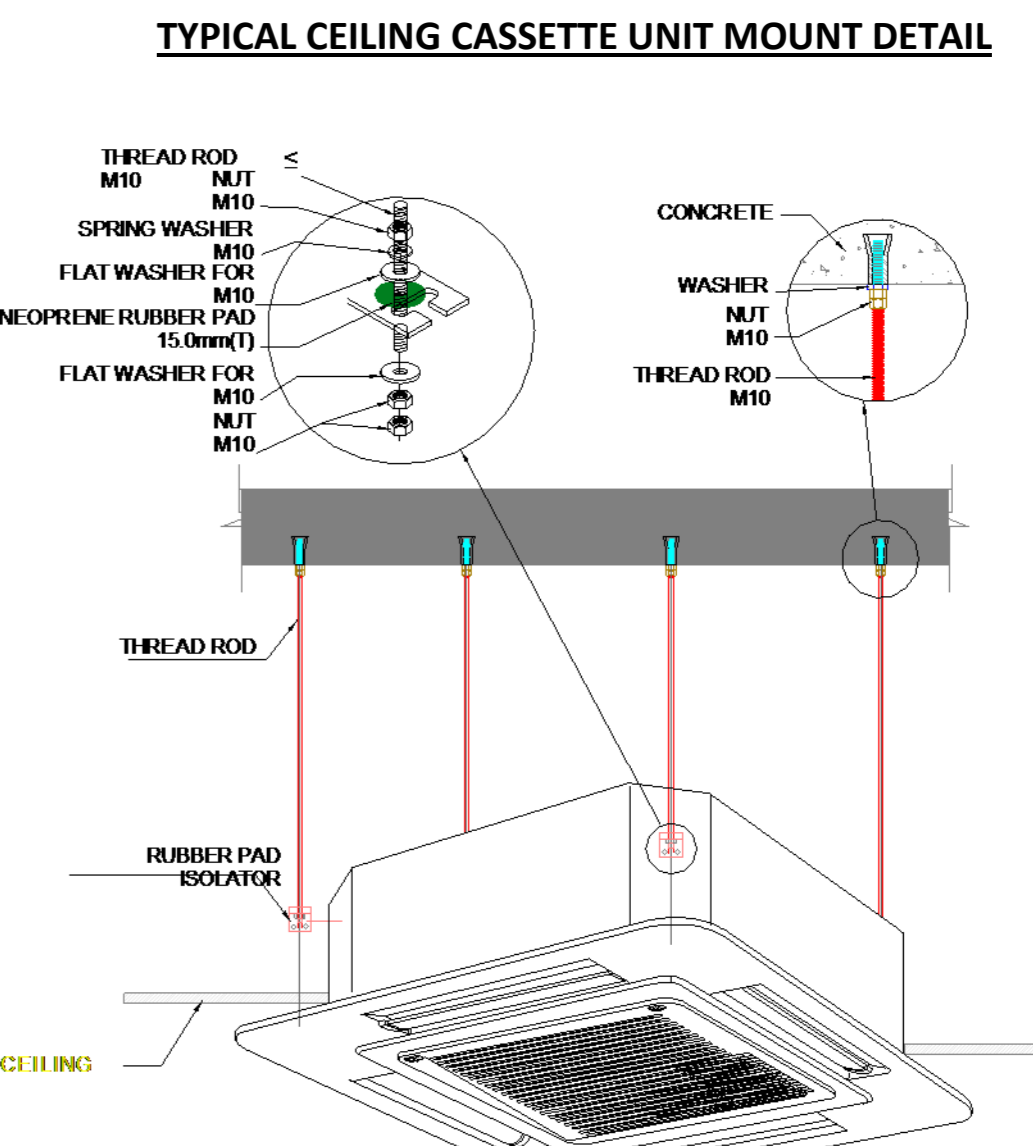
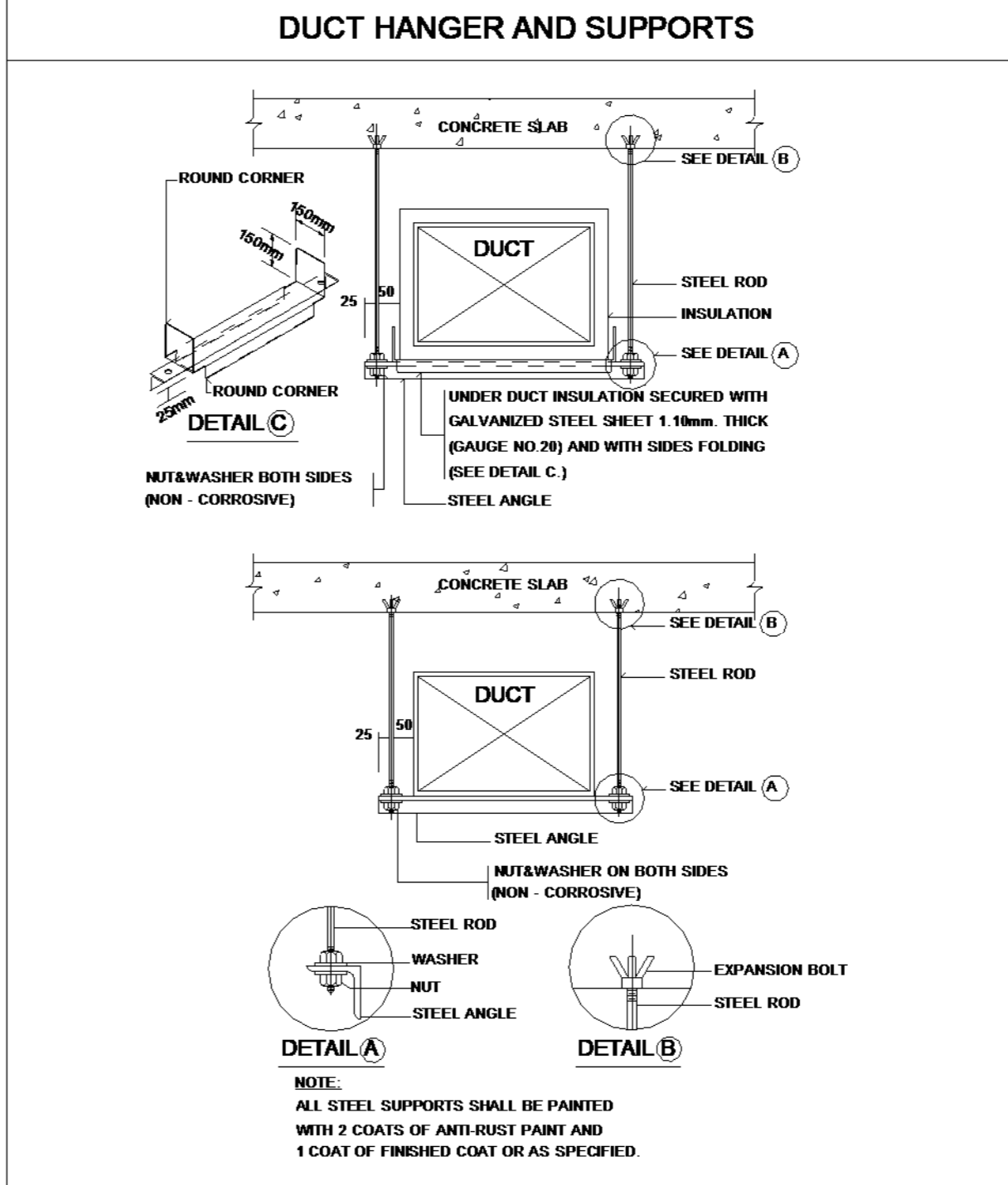
1 GROUND FLOOR SCALE 1 : 50



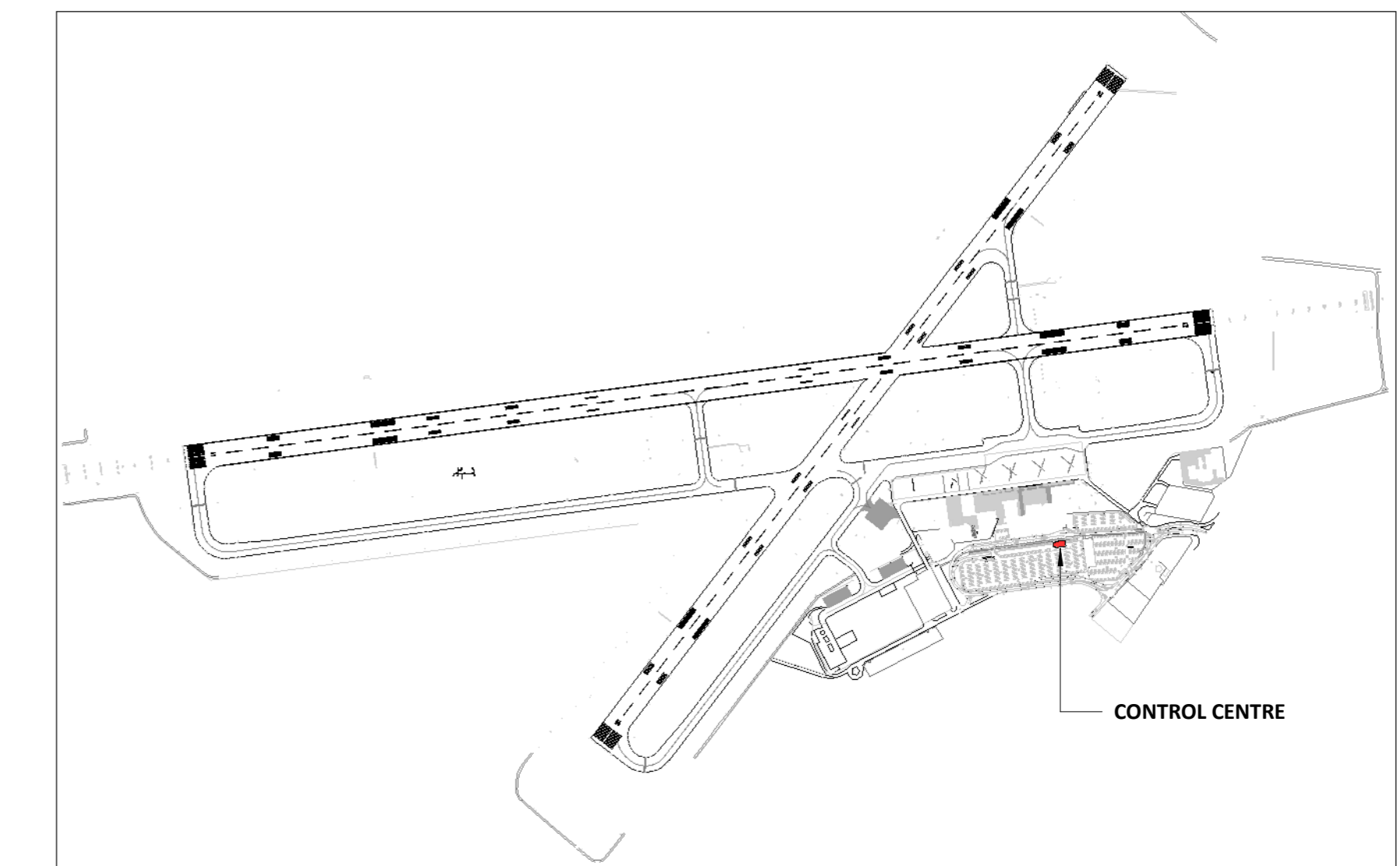
3 CONTROL CENTRE 3D VIEW SCALE



6 Typical Detail Of Outdoor VRF Units SCALE 1 : 25



Typical Ceiling Cassette Unit Mount Detail



4 KEY PLAN SCALE 1 : 5000

NO.	DATE	BY	DESCRIPTION
1	2025-09-19	PG	ISSUED FOR TENDER
REVISIONS:			
101 MANDEL STREET PORT ELIZABETH TEL: 041-390 8000 E-MAIL: PEG@CARIFRO.COM		4 BELLEVUE ROAD SOMERBURY EAST LONDON TEL: 031-743 8000 E-MAIL: EL@CESA.CO.ZA	
CLIENT:			
PROJECT TITLE:			
ACSA EAST LONDON HVAC			
DISCIPLINE:			
MECHANICAL			
DRAWING TITLE:			
CONTROL CENTRE HVAC LAYOUT			
DESIGNED:	DRAWN:	APPROVED:	
PG	HK	PG	
SCALE:	COPYRIGHT PROTECTED	DATE:	
As indicated		2024-06-18	
Drawing number:		REV:	
2413-M-HVAC-CC-01		T	
PROJECT STATUS:			
TENDER			