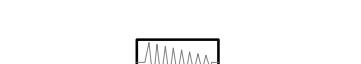
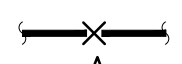
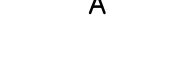
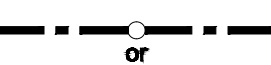
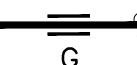
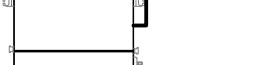
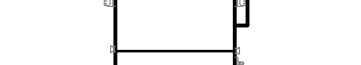
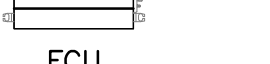
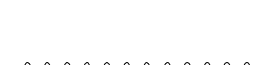
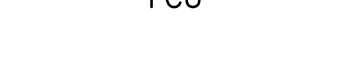
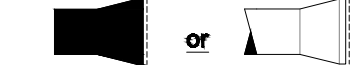
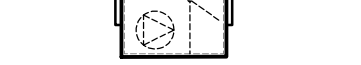
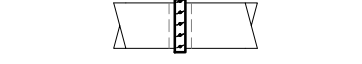
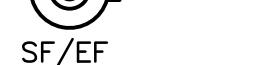
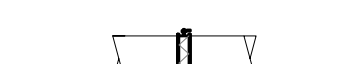
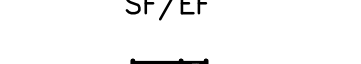
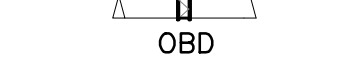
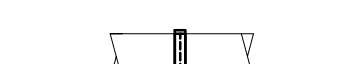
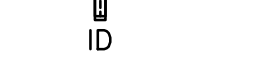
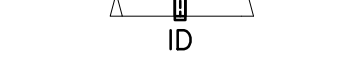
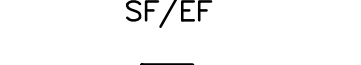
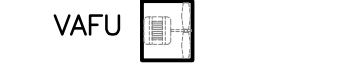
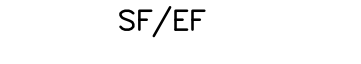
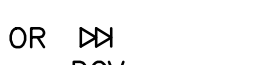
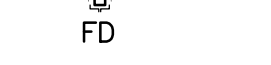
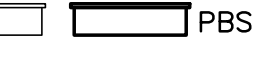
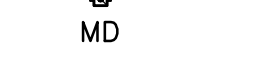
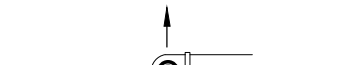
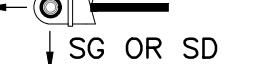
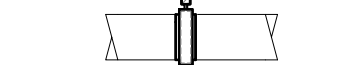
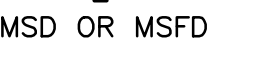
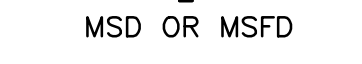
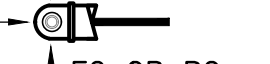
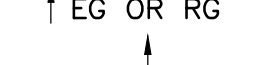
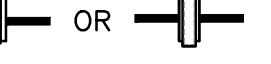
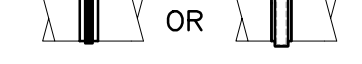
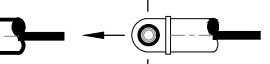
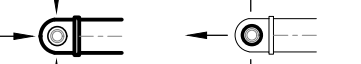
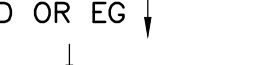
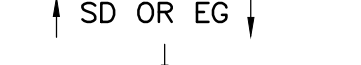
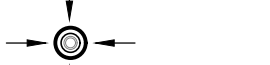
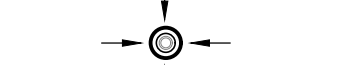
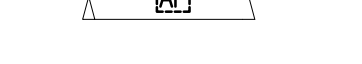
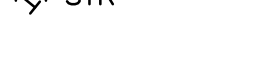
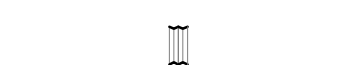
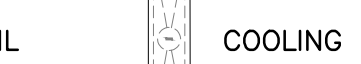
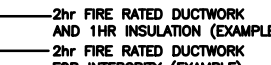
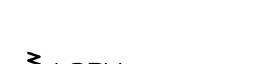
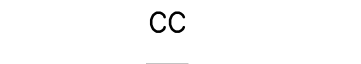
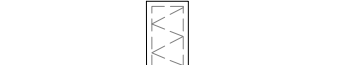
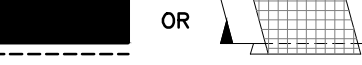
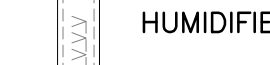
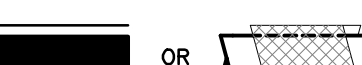
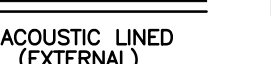
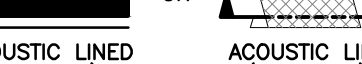
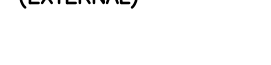
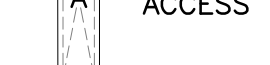
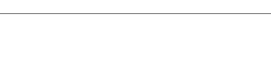
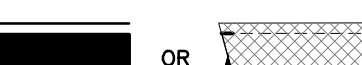
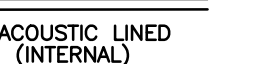
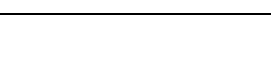
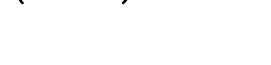


TWO DIMENSIONAL DRAWING OR SCHEMATIC: THE MAJORITY OF LAYOUT DRAWINGS ARE PRODUCED FROM A REVIT MODEL AND THE PIPEWORK AND DUCTWORK RUNS AND FITTINGS ARE NOT AS INDICATED ON THIS SHEET BUT ARE NOTED USING THE SAME ABBREVIATIONS. WHERE TWO DIMENSIONAL CAD DRAWINGS AND SCHEMATICS HAVE BEEN PRODUCED THE PIPEWORK, DUCTWORK AND ASSOCIATED EQUIPMENT IS AS INDICATED ON THIS SHEET APPLIES.		PIPEWORK & ASSOCIATED EQUIPMENT		DUCTWORK & ASSOCIATED EQUIPMENT		DUCTWORK & ASSOCIATED EQUIPMENT		SERVICE	
PIPEWORK & ASSOCIATED EQUIPMENT		PIPEWORK & ASSOCIATED EQUIPMENT		SCHEMATIC LAYOUT FLOOR PLAN LAYOUT		SCHEMATIC LAYOUT FLOOR PLAN LAYOUT		PIPEWORK & ASSOCIATED EQUIPMENT DUCTWORK & ASSOCIATED EQUIPMENT	
	SERVICE IN SUSPENDED CEILING / ROOF VOID		FLEXIBLE CONNECTION					A ACCESS	AP ACCESS PANEL
	SERVICE AT HIGH LEVEL		EXPANSION BELLOW (SLEEVED)					AV AIR VENT	AHU AIR HANDLING UNIT
	SERVICE AT LOW LEVEL		UNION					BV BALL VALVE (#50mm AND UNDER)	ATT ATTENUATOR
	SERVICE WITHIN DUCT / TRENCH / FLOOR VOID		ANCHORS					BFV BUTTERFLY ISOLATING VALVE (#65mm AND OVER)	BDD BACK DRAFT DAMPER
	SET DOWN IN SERVICE		PIPEWORK GUIDE POINT					CHW CHILLED WATER	CAV CONSTANT AIR VOLUME
	RISE IN SERVICE		PUDDLE FLANGE					CF COLD FEED	CTA CROSS TALK ATTENUATOR
	DROP IN SERVICE		SAFETY VALVE					CFR CONSTANT FLOW REGULATOR	CAO EXHAUST AIR OUTLET
	TRACE HEATING		DOUBLE SAFETY VALVE					CS COMMISSIONING STATION	EF EXTRACT FAN
	REDUCER SIZE IN PIPEWORK		AIR BOTTLE (WITH LOCKSHIELD VENT)					CA COMPRESSED AIR	EG EXTRACT GRILLE
	ISOLATING VALVE / GATE VALVE		AIR SEPARATOR					CW CONDENSER WATER	EV EXTRACT VALVE
	LOCKSHIELD VALVE		DIRT SEPARATOR					CWS COLD WATER SERVICE (UNDER PUBLIC HEALTH SERVICE)	FC FLEXIBLE CONNECTION
	BALL VALVE		AIR / DIRT SEPARATOR					COND CONDENSATE	FCU FAN COIL UNIT
	LOCKSHIELD BALL VALVE		EXPANSION / BUFFER VESSEL					CT CONSTANT TEMPERATURE	FD FIRE DAMPER
	COMMISSIONING STATION		CENTRIFUGAL PUMP					DPCV DIFFERENTIAL PRESSURE CONTROL VALVE	ID IRIS DAMPER
	DOUBLE REGULATING VALVE		CIRCULATION PUMP					DCV DOUBLE CHECK VALVE	LSD LINEAR SLOT DIFFUSER
	PRESSURE TAPPED VALVE		VALVE ARRANGEMENT SET					DRV DOUBLE REGULATING VALVE	MD MOTORISED DAMPER
	ORIFICE VALVE		STEEL PANEL RADIATOR (DOUBLE OR SINGLE PANEL)					DC DRAIN COCK	MSD MOTORISED SMOKE DAMPER
	STOP COCK		COLUMN RADIATOR					DOC DRAIN-OFF COCK	MSFD MOTORISED SMOKE/FIRE DAMPER
	NON-RETURN VALVE		TRENCH / SKIRTING HEATING					DP DRAIN POINT	MVHR MECHANICAL VENTILATION WITH HEAT RECOVERY
	CHECK VALVE		UNDERFLOOR HEATING					FD FIRE DAMPER	NRD NON RETURN DAMPER
	DOUBLE CHECK VALVE (VARIABLE)		PLATE HEAT EXCHANGER UNIT					FV FIRE VALVE	OAI OUTSIDE AIR INTAKE
	3-WAY VENT COCK		TEMPERATURE GAUGE					FE FEED AND EXPANSION	OBD OPPOSED BLADE DAMPER
	DIFFERENTIAL PRESSURE CONTROL VALVE		ALTITUDE GAUGE WITH SIPHON & GAUGE COCK					FC FLEXIBLE CONNECTION	PB PLENUM BOX
	PRESSURE INDEPENDENT CONTROL VALVE		DIFFERENTIAL PRESSURE GAUGE					F FEED AND EXPANSION	PRD PRESSURE RELIEF DAMPER
	PRESSURE REDUCING VALVE (SMALL END DENOTES LOW PRESSURE)		DIFFERENTIAL PRESSURE SWITCH					FMD FLOW MEASUREMENT DEVICE	RG RETURN GRILLE
	4-PORT MOTORISED VALVE		PRESSURE SWITCH					F&R FLOW & RETURN	SBD SINGLE BLADE DAMPER
	3-PORT MOTORISED VALVE		ENERGY METER					GG GAS GOVERNER	SD SUPPLY DIFFUSER
	2-PORT MOTORISED VALVE		HEAT METER					G GAS	SG SUPPLY GRILLE
	GAS PLUG VALVE		FLOW GRID METER					GLV GLOBE VALVE	SEF SMOKE EXTRACT FAN
	GAS PRESSURE REGULATION VALVE (OR GAS GOVERNOR)		HEAT SENSOR					GV GATE VALVE	SF SUPPLY FAN
	SOLENOID VALVE (GAS SERVICE)		GAS SENSOR					HTG HEATING	TEF TOILET EXTRACT FAN
	FREE-FALL VALVE (GAS OR OIL SERVICES)		TEMPERATURE SENSOR / ROOM STAT					HUDC HOSE UNION DRAIN COCK	TG TRANSFER GRILLE
	STRAINER		FLOAT SWITCH					HWS HOT WATER SERVICE (UNDER PUBLIC HEALTH SERVICES)	TV TURNING VANE
	STRAINER WITH DRAIN COCK		KNOCK-OFF BUTTON					IV ISOLATING VALVE	VAV VARIABLE AIR VOLUME
	DUPLEX FILTER		INTEGRAL PUMP CHANGEOVER VALVE					LPCO LOW PRESSURE CUT-OFF VALVE	VCD VOLUME CONTROL DAMPER
	THERMOSTATIC RADIATOR VALVE							LPHW LOW PRESSURE HOT WATER	
	LOCKSHIELD RADIATOR VALVE							LSBV LOCKSHIELD BALL VALVE	
	HOSE UNION DRAIN COCK							LSRV LOCKSHIELD RADIATOR VALVE	
	DRAIN-OFF COCK							LSV LOCKSHIELD VALVE	
	MANUAL AIR VENT							LTHW LOW TEMPERATURE HOT WATER	
	METERING STATION/FLOW MEASUREMENT DEVICE							MFV MOTORISED FIRE VALVE	
	TEST POINT							MCWS MAIN COLD WATER SERVICE (UNDER PUBLIC HEALTH SERVICE)	
	GAS PURGE POINT							NV NEEDLE VALVE	

REVISION

01	STAGE 4 ISSUE	NOV '24	JF
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REVDESCRIPTIONDATEDW

CLIENT

GRIGGS

PROJECT

11 SHELDON AVENUE

TITLE

MECHANICAL SERVICES
LEGEND AND SYMBOLS

PURPOSE OF ISSUE

STAGE 4

DRAWING NUMBER

1405-50-SYM-01

SCALE

N.T.S.

SHEET

AO

DATE

NOV 2024

DRAWN

MR

REVISION

01

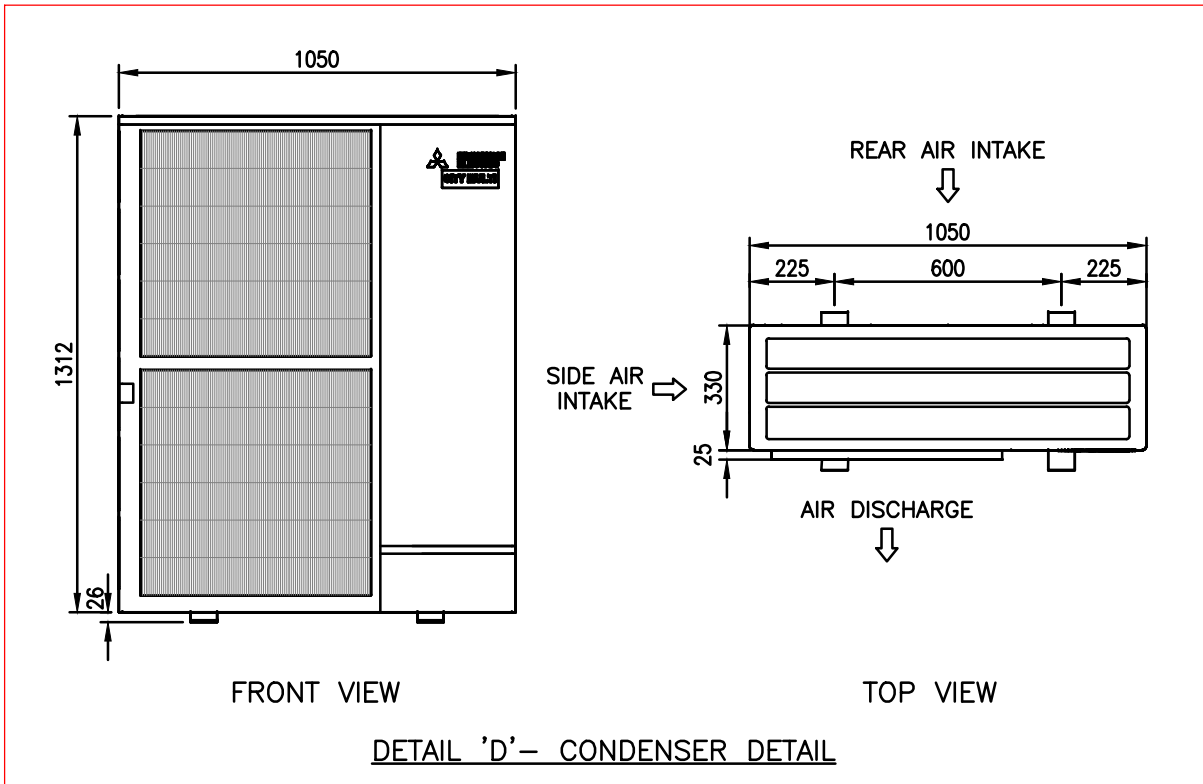
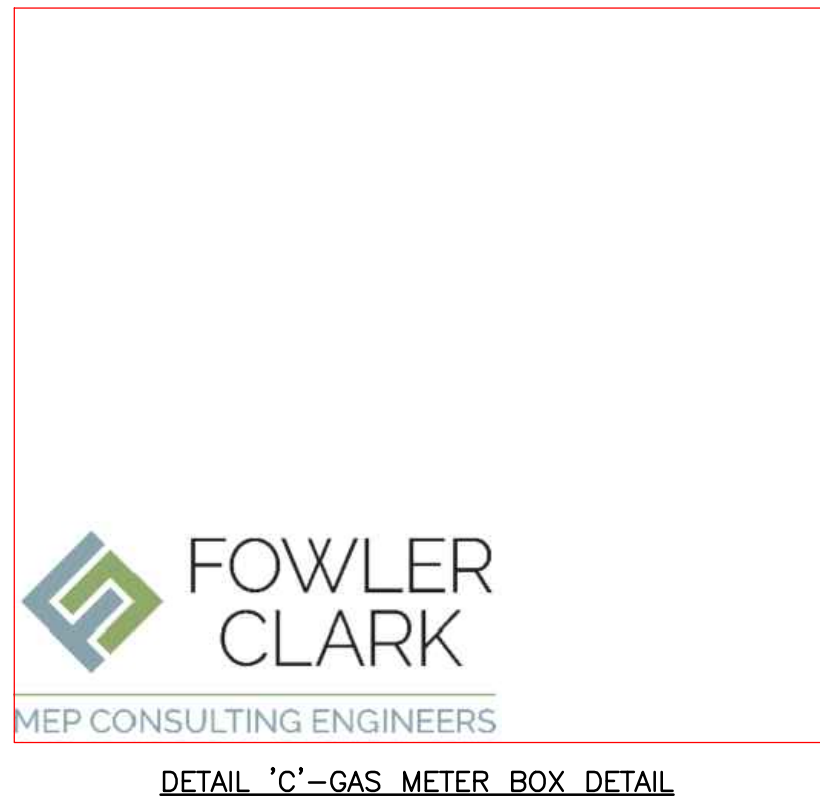
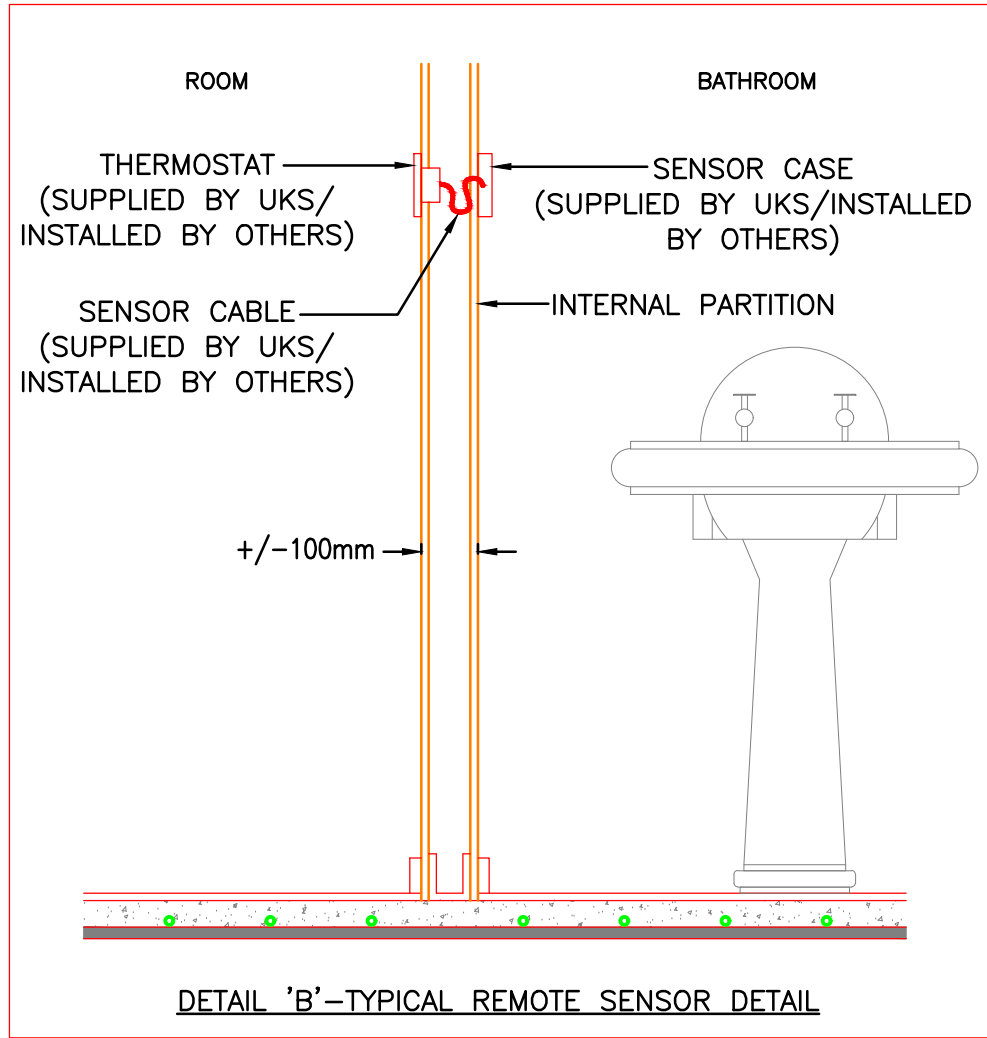
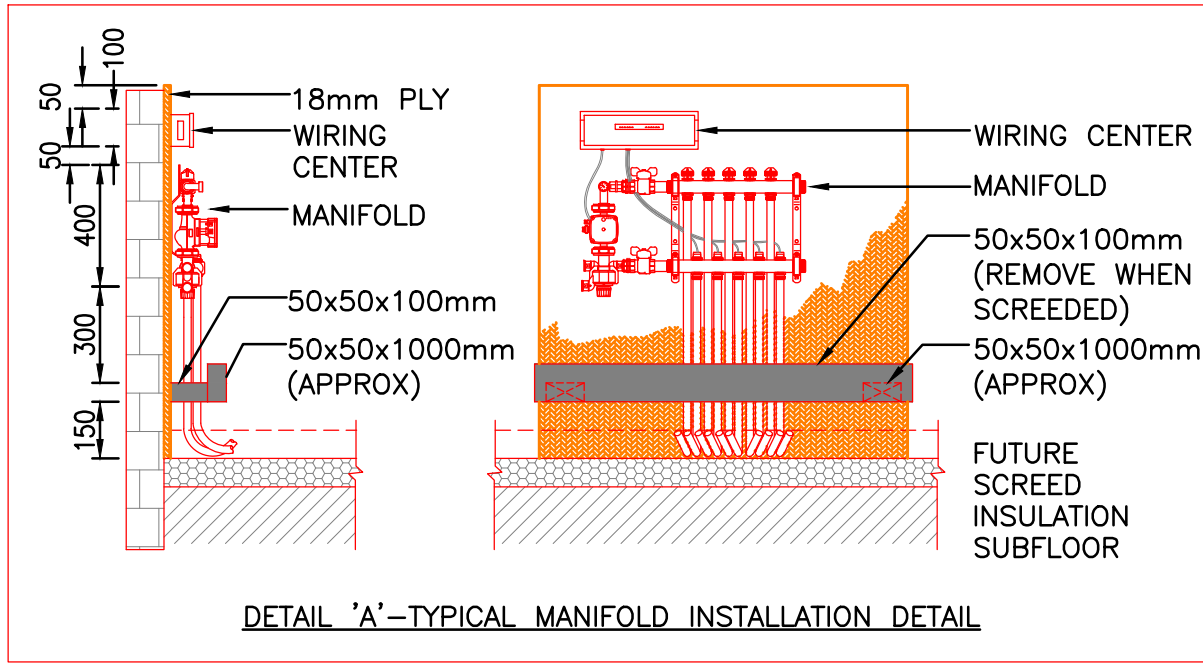
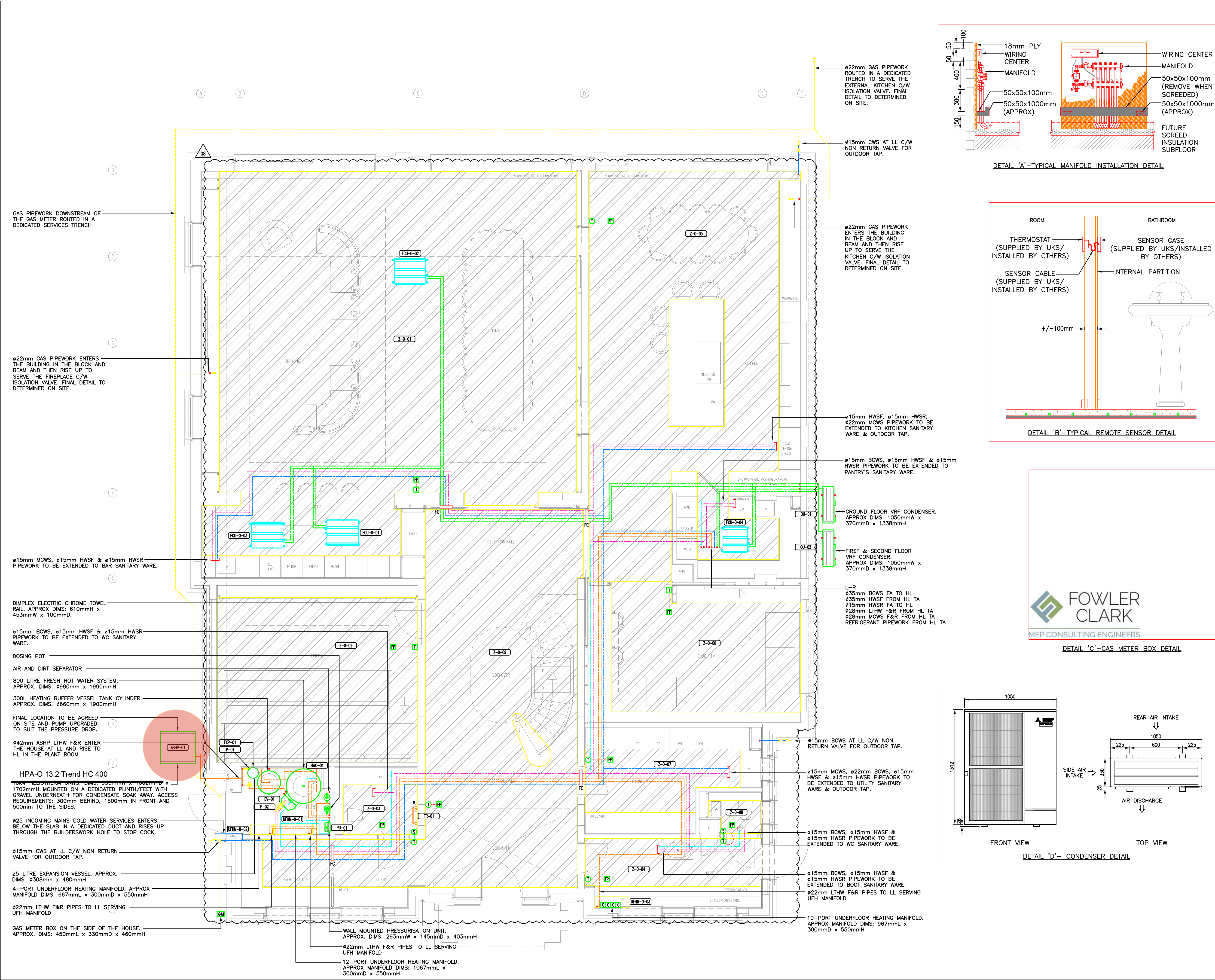
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PROJECT	11 SHELDON AVENUE
TITLE	MECHANICAL SERVICES LEGEND AND SYMBOLS
PURPOSE OF ISSUE	STAGE 4
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SHEET	AO
DATE	NOV 2024
DRAWN	MR
REVISION	01



REFERENCE PLAN
1405/08/201

REVISION NO.
08

NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE PROJECT SPECIFIC DESIGNERS' RISK ASSESSMENTS AND THE PROJECT SPECIFIC ARCHITECT & STRUCTURAL ENGINEERS DRAWINGS & SPECIFICATIONS.
- THIS IS A TENDER DRAWING AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.
- ALL WORKING DRAWINGS SHALL BE UNDERTAKEN BY THE SERVICES SUB CONTRACTOR TO ALL OF THE LATEST INFORMATION PROVIDED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
- THE SERVICES CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL, ELECTRICAL, PUBLIC HEALTH AND FIRE PROTECTION DRAWINGS WILL ALL OTHER CONTRACTORS, SPECIALISTS AND TRADES.
- THE SERVICES CONTRACTOR SHALL FULLY LIAISE WITH ALL OTHER CONTRACTORS TO ENSURE ADEQUATE PERMANENT FLOOR, WALL AND CEILING PANELS FOR THE BUILDING SERVICES ARE FULLY DETAILED AND INSTALLED.
- THE SERVICES CONTRACTOR SHALL PROVIDE TECHNICAL SUBMISSIONS FOR ALL MATERIALS TO THE PROFESSIONAL TEAM PRIOR TO ORDER FOR THEIR COMMENTS.
- ALL DIMENSIONS IN MILLIMETERS (UNLESS OTHERWISE NOTED). ALL DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS.
- DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTS DRAWINGS FOR SETTING OUT AND DIMENSIONAL DATA.
- ALL SERVICES PASSING THROUGH FIRE AND SMOKE BARRIERS/WALLS SHALL BE SUITABLY FIRE STOPPED TO THE SAME STANDARD AS THE BARRIER/WALL BEING PENETRATED.
- THE FINAL ASHP HYDRAULIC ARRANGEMENT TO BE DETAILED AND SPACE PLANNED BY THE NOMINATED MECHANICAL CONTRACTOR.
- PIPEWORK SERVICES TO BE COORDINATED WITH THE ABOVE GROUND DRAINAGE OFFSETS IN CEILING VOIDS.
- FINAL HYDRAULICS OF THE ASHP LTHW NETWORK TO BE DETAILED DESIGNED BY THE MCS INSTALLING CONTRACTOR.

LEGEND:

- COMBINED TEMPERATURE SENSOR AND CONTROLLER ABLE TO INTERLOCK THE U/F HEATING AND VRF
- COMBINED TEMPERATURE SENSOR AND CONTROLLER FOR THE U/F HEATING
- COMBINED TEMPERATURE SENSOR AND CONTROLLER LOCATED OUTSIDE THE WET ROOM
- FLOOR PROBE
- FCU CONTROLLER
- FIRE COLLAR
- UNDER FLOOR HEATING ZONE

REVISION			
REV	DESCRIPTION	DATE	CHK
08	CLIENT COMMENTS INCORPORATED	MAR '26	JF
07	CLIENT COMMENTS INCORPORATED	SEP '25	JF
06	UPDATED FOR LATEST ARCHITECTURE	AUG '25	JF
05	UPDATED FOR LATEST ARCHITECTURE	JUN '25	JF
04	AMENDED AS CLOUDED	APR '25	JF
03	UPDATED FOR REVISED RCPs	MAR '25	JF
02	FAN COIL UNITS ADDED	DEC '24	JF
01	STAGE 4 ISSUE	NOV '24	JF

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CLIENT

GRIGGS

PROJECT

11 SHELDON AVENUE

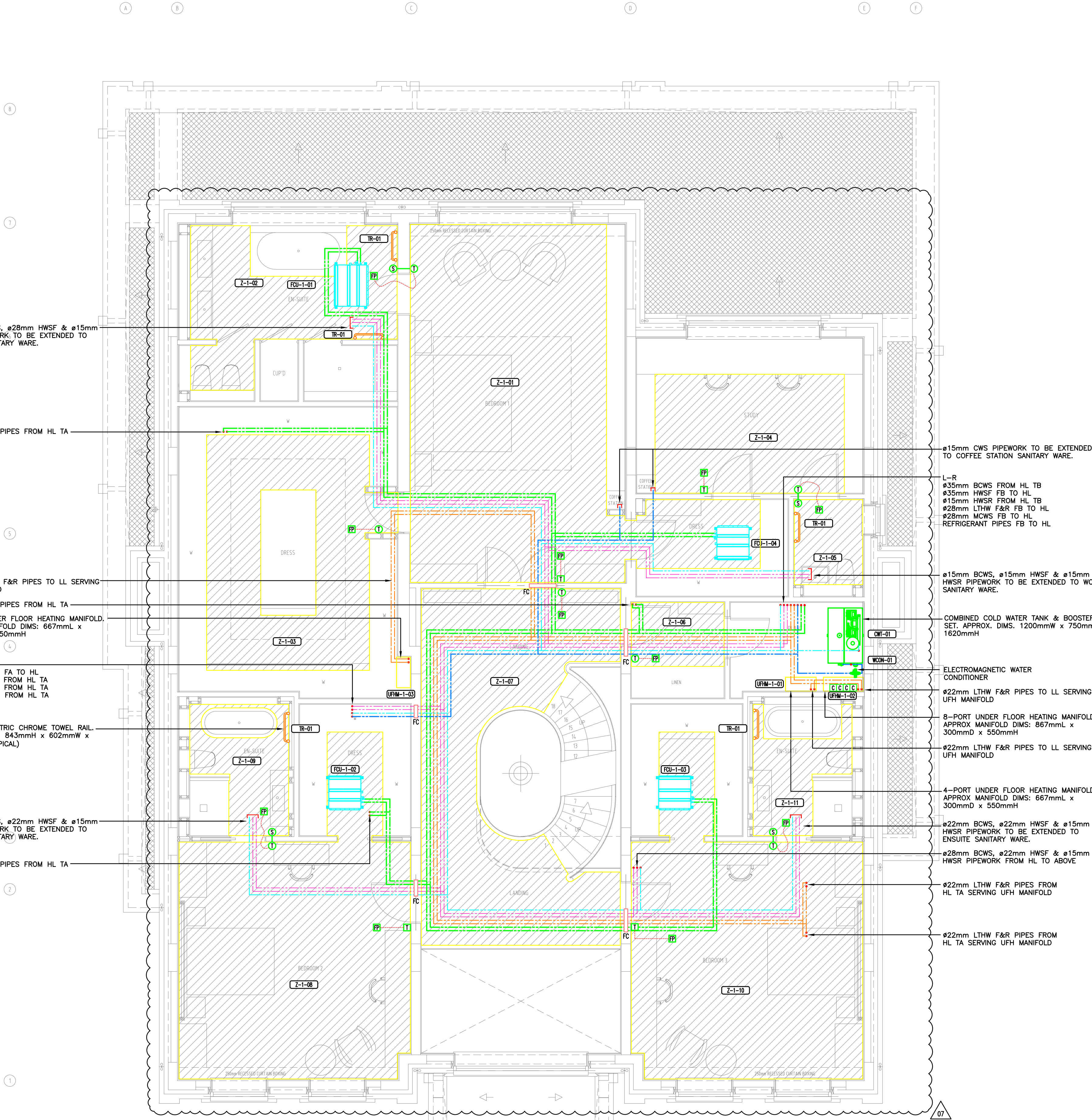
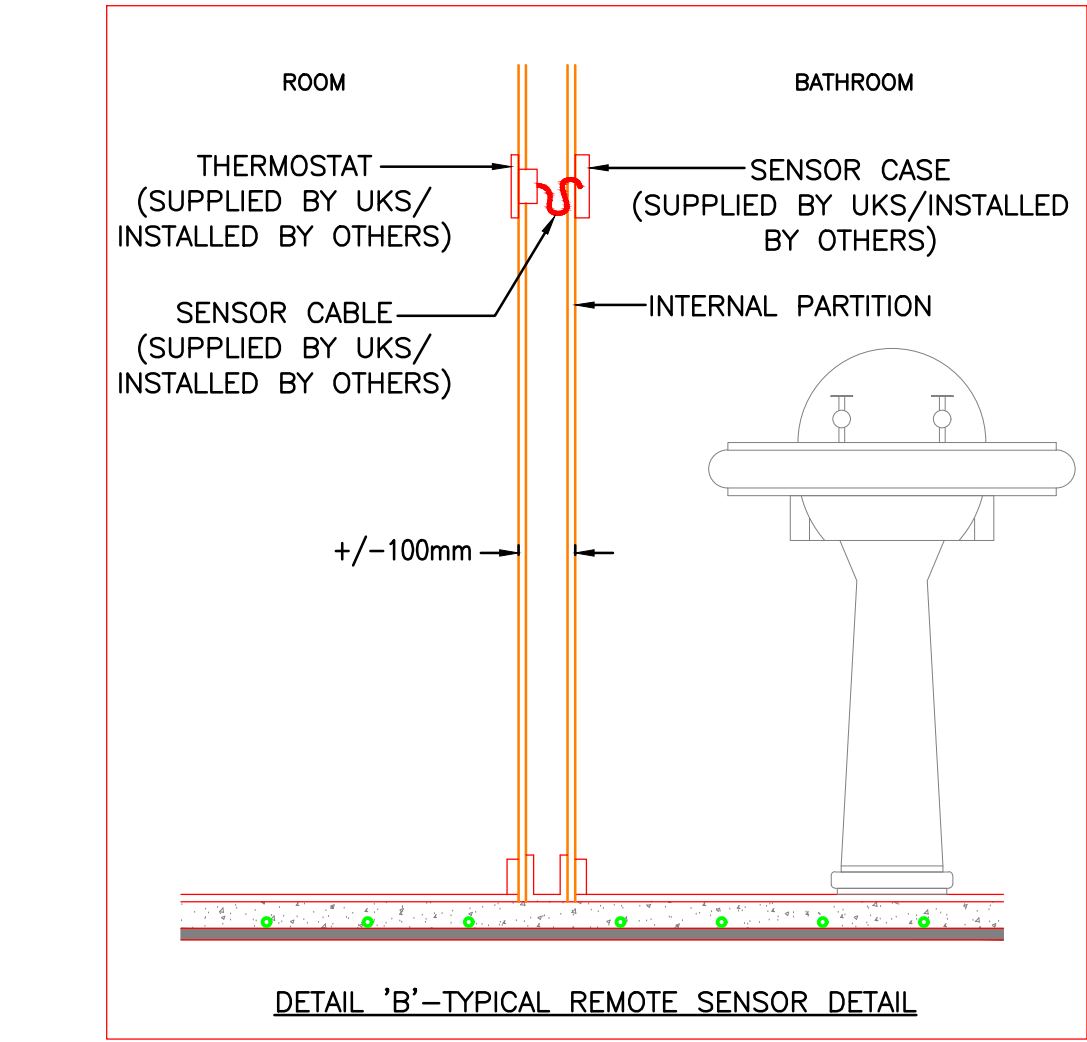
TITLE

GROUND FLOOR PIPEWORK LAYOUT

PURPOSE OF ISSUE

STAGE 4

DRAWING NUMBER		REVISION	
1405-56-00-LAY-01		08	
SCALE	SHEET	DATE	DRAWN
1:50	A1	NOV 2024	MR



- | LEGEND: | |
|--|---|
|  | COMBINED TEMPERATURE SENSOR AND CONTROLLER
ABLE TO INTERLOCK THE U/F HEATING AND VRF |
|  | COMBINED TEMPERATURE SENSOR AND
CONTROLLER FOR THE U/F HEATING |
|  | COMBINED TEMPERATURE SENSOR AND
CONTROLLER LOCATED OUTSIDE THE WET ROOM |
|  | FLOOR PROBE |
|  | FCU CONTROLLER |
|  FC | FIRE COLLAR |
|  | UNDER FLOOR HEATING ZONE |

REVISION			
07	CLIENT COMMENTS INCORPORATED	MAR '26	JF
06	CLIENT COMMENTS INCORPORATED	SEP '25	JF
05	UPDATED FOR LATEST ARCHITECTURE	AUG '25	JF
04	UPDATED FOR LATEST ARCHITECTURE	JUN '25	JF
03	BACKGROUND UPDATED	APR '25	JF
02	FAN COIL UNITS ADDED	DEC '24	JF
01	STAGE 4 ISSUE	NOV '24	JF
REV	DESCRIPTION	DATE	CHK

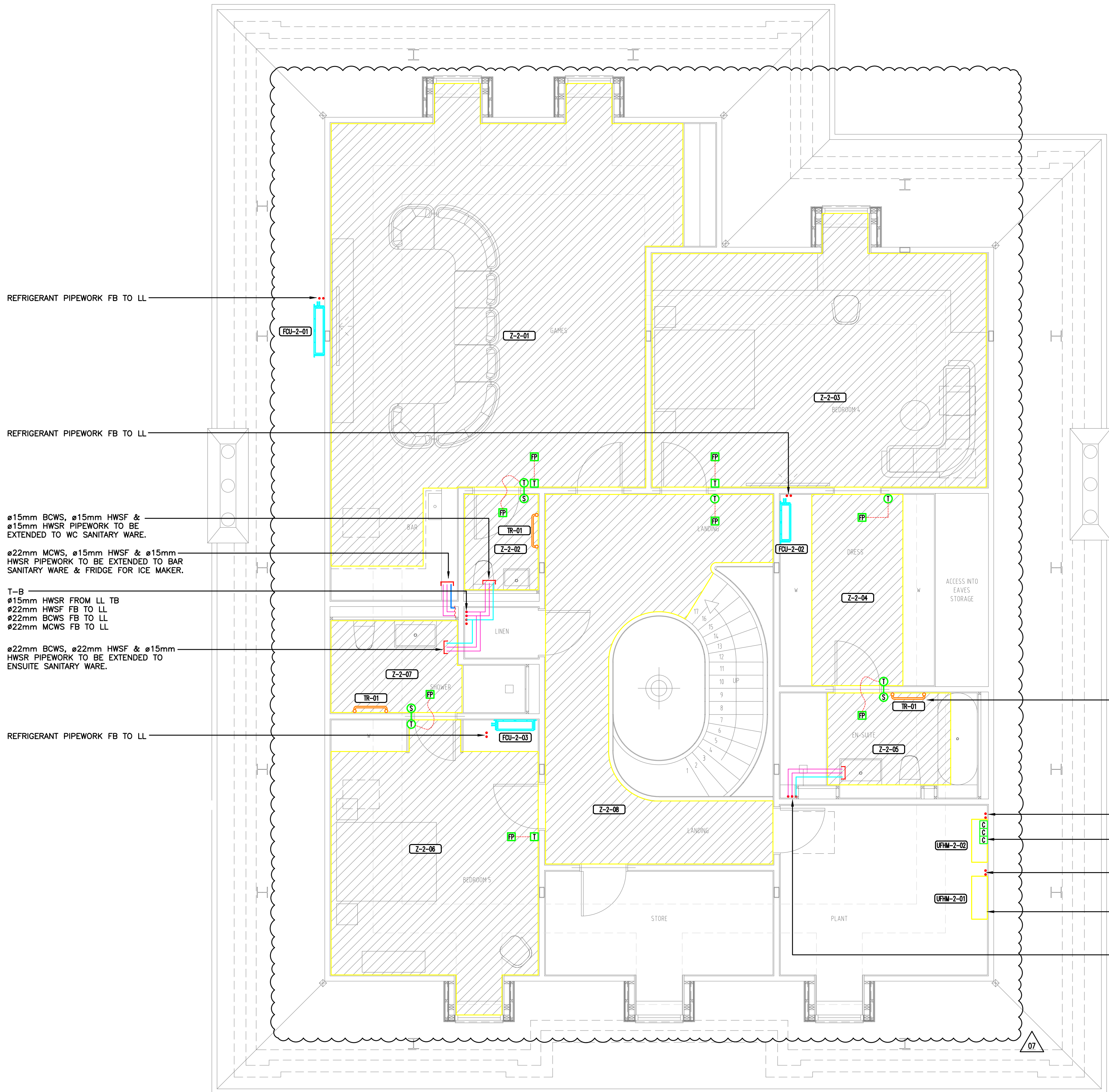
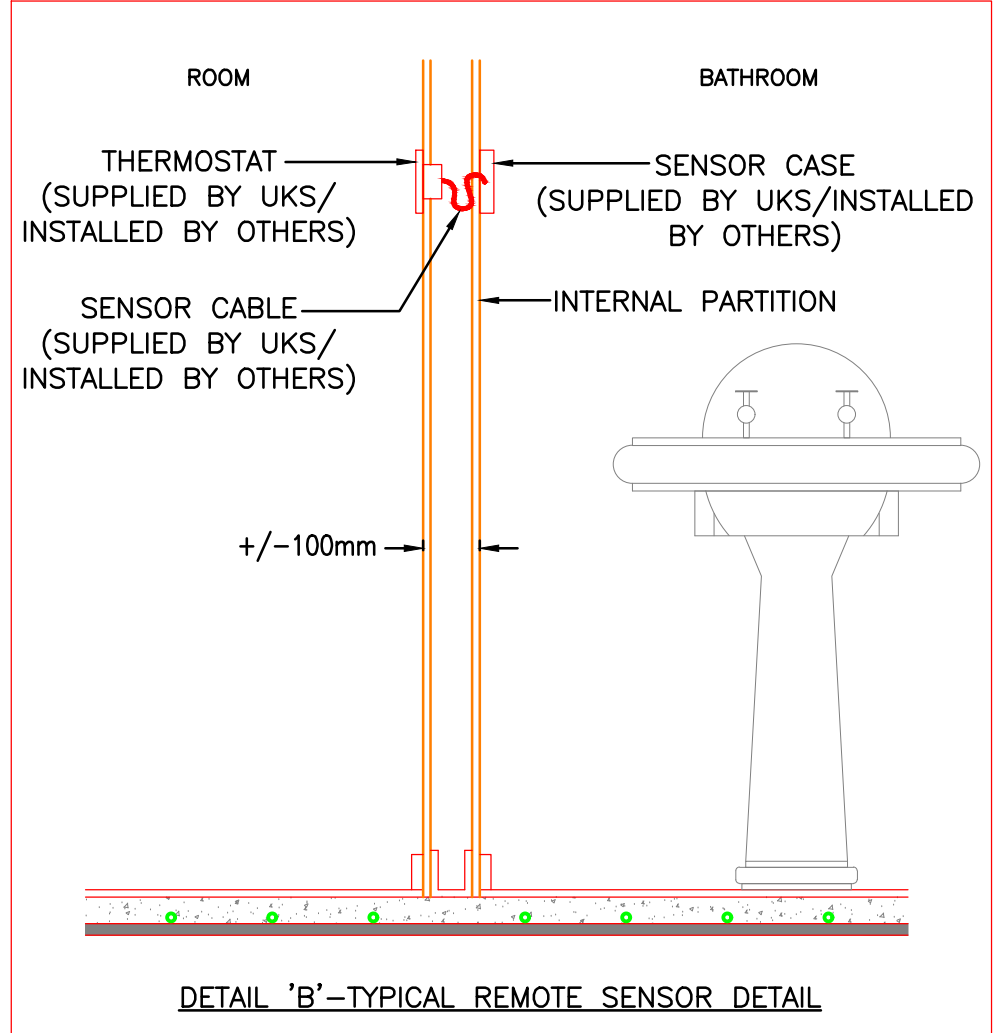
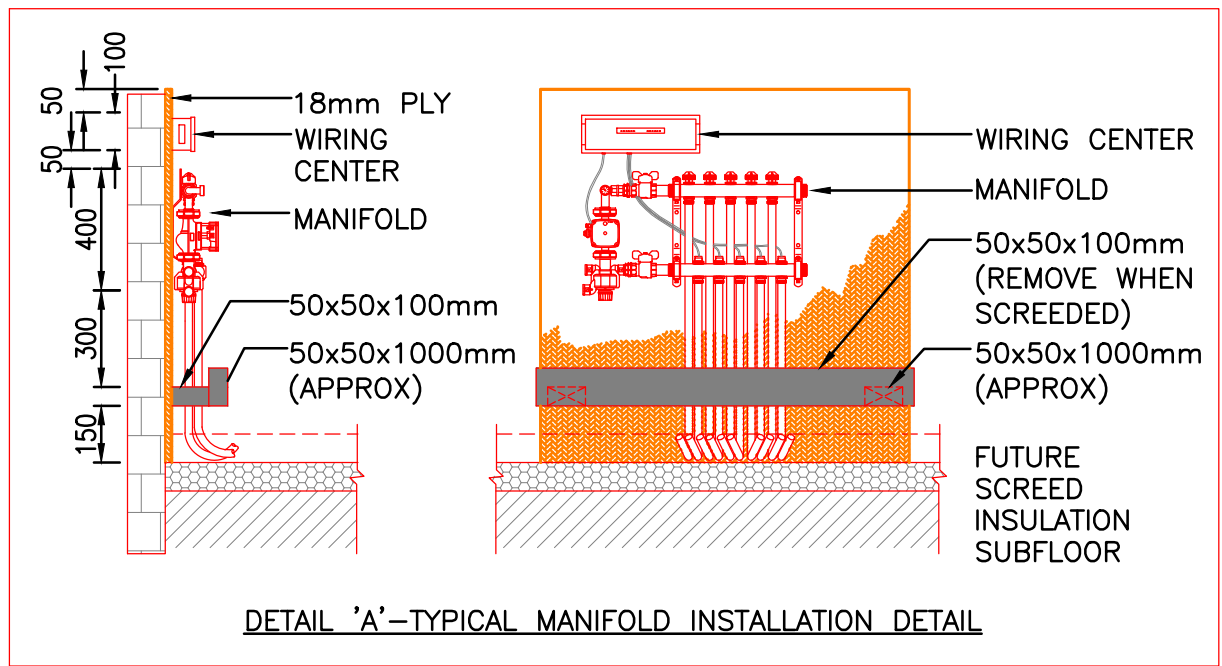
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CLIENT			
GRIGGS			
PROJECT			
11 SHELDON AVENUE			
TITLE			
FIRST FLOOR PIPEWORK LAYOUT			
PURPOSE OF ISSUE			
STAGE 4			
DRAWING NUMBER			REVISION
1405-56-01-LAY-01			07
SCALE	SHEET	DATE	DRAWN
1:50	A1	NOV 2024	MR



NOTES:

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- TI COMBINED TEMPERATURE SENSOR AND CONTROLLER FOR THE U/F HEATING
- TI-S COMBINED TEMPERATURE SENSOR AND CONTROLLER LOCATED OUTSIDE THE WET ROOM
- FP FLOOR PROBE
- FC FCU CONTROLLER
- FC FIRE COLLAR
- UNDER FLOOR HEATING ZONE

REVISION			
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REV	DESCRIPTION	DATE	CHK

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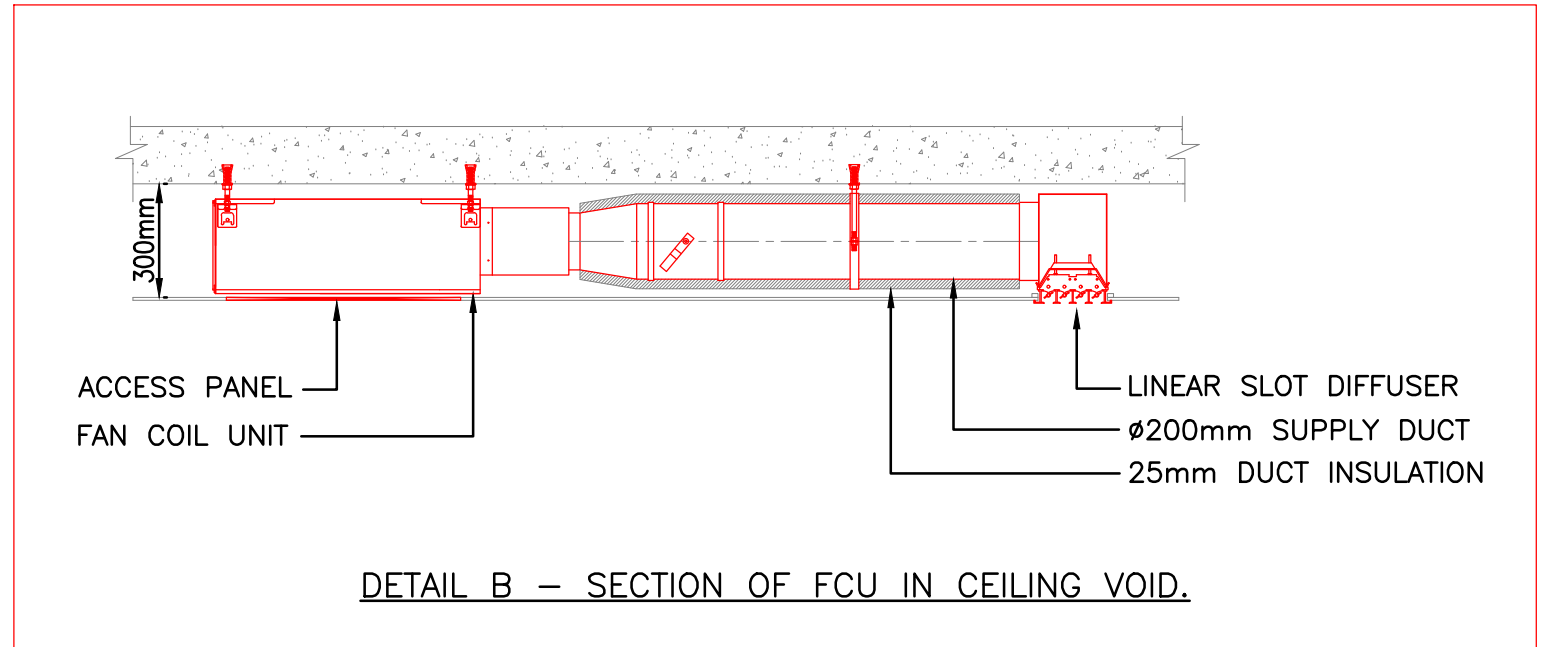
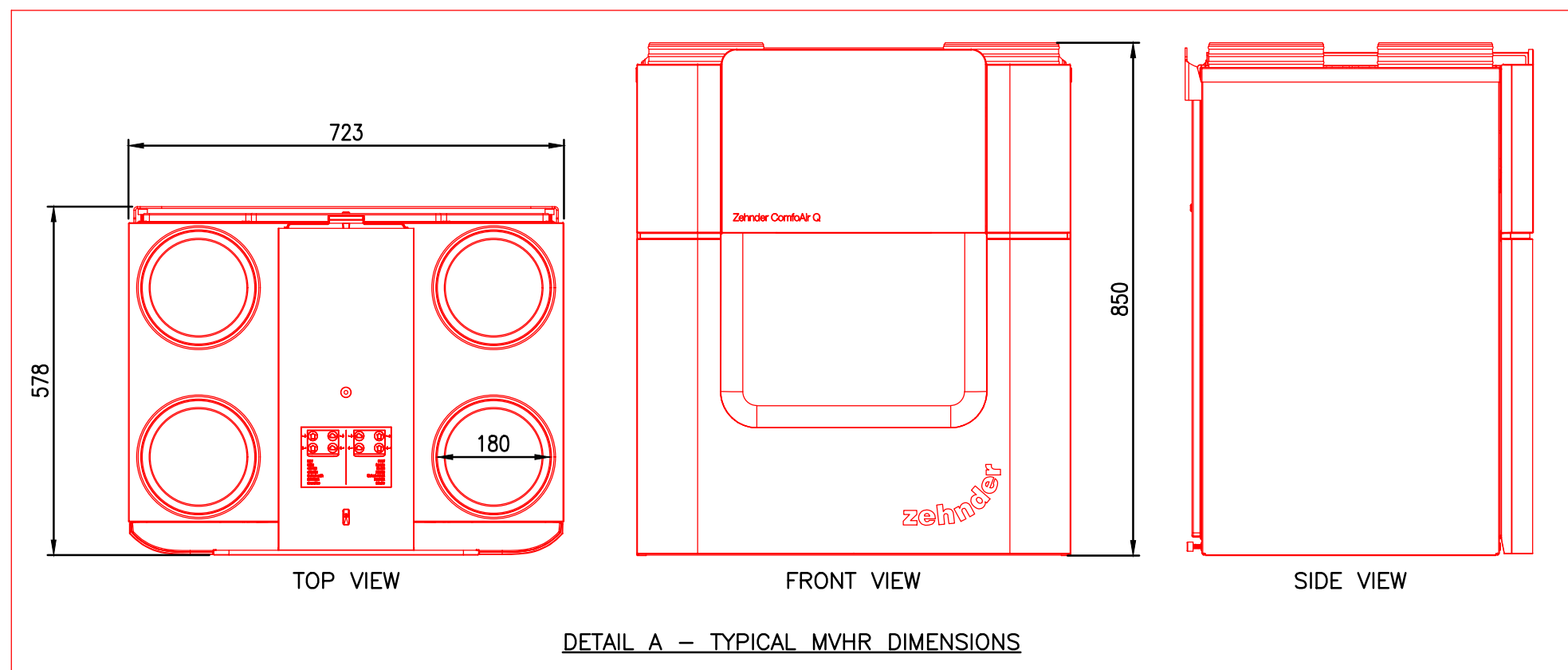
CLIENT
GRIGGS

PROJECT
11 SHELDON AVENUE

TITLE
SECOND FLOOR
PIPEWORK LAYOUT

PURPOSE OF ISSUE
STAGE 4

DRAWING NUMBER		REVISION	
1405-56-02-LAY-01		07	
SCALE	SHEET	DATE	DRAWN
1:50	A1	NOV 2024	MR



- LEGEND:**
- P ✓ PUSH BUTTON BOOST CONTROL
 - CEILING VOID INTAKE/EXHAUST DUCTWORK WITH 20mm INSULATION
 - CEILING VOID SUPPLY/EXTRACT DUCTWORK WITHOUT INSULATION
 - FC FIRE COLLAR
 - VOLUME CONTROL DAMPER
 - 450x450mm ACCESS PANEL FOR FAN COIL UNITS
 - FCU CONTROLLER

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 - DUCTS SHALL BE FITTED WITH FIRE WRAP AT EACH FIRE COMPARTMENT PENETRATION REFER TO ARCHITECTS DRAWINGS FOR FIRE COMPARTMENT DETAILS.
 - ALL VENTILATED ROOMS DOORS TO BE UNDERCUT BY 10mm.
 - ALL FRESH AIR INTAKE AND ALL DISCHARGE AIR DUCTWORK SHALL BE LAGGED IN ACCORDANCE WITH THE SPECIFICATION.
 - WALL MOUNTED MVHR UNITS WILL REQUIRE A HEAVY WALL CONSTRUCTION WHERE POSSIBLE. IF UNABLE PROVIDE A HEAVIER MASS WALL, INCLUDE A SHEET OF 25mm PLY WOOD FITTED FLOOR TO CEILING ONTO STUD PARTITION.
 - ALL BENDS IN DUCTWORK ROUTES TO HAVE VANES TO REDUCE PRESSURE DROP.
 - ALL EXTRACT GRILLES TO COME WITH INTEGRAL FILTER FOR EASY MAINTENANCE AND TO SATISFY NHBC REQUIREMENTS.
 - CONTRACTOR TO REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR SETTING OUT OF DOUBLE AIR BRICKS.
 - CONTRACTOR TO REFER ARCHITECT'S REFLECTED CEILING PLAN FOR SETTING OUT OF THE GRILLES.
 - CONTRACTOR TO ALLOW FOR A 40mm CONDENSATE DRAIN CONNECTION FROM MVHR UNIT CONNECTS INTO NEAREST SWP COMPLETE WITH WATERLESS HEPVO TRAP ARRANGEMENT.
 - CONTRACTOR TO ALLOW FOR 220mmW x 90mmH DUCTWORK ON THE PRIMARY RUNS FROM THE MVHR TO REDUCE PRESSURE DROPS IF APPROPRIATE FOR A FULLY OPERATING AND BALANCED SYSTEM.
 - ALL FCU SUPPLY DUCTWORK AND PLENUM BOXES TO BE INSULATED AND VAPOUR SEALED.
 - ATTENUATION TO THE FCU DUCTWORK TO BE ADDED SUBJECT TO ACOUSTICIANS ADVICE.
 - CLEAR CEILING VOID DEPTHS REQUIRED FOR SERVICES:
 - MINIMUM LIGHTING ZONE - 150mm
 - FAN COIL UNITS - 200-300mm
 - SINGLE DUCT RUNS - 150mm
 - DUCT CROSSOVER AREAS - 250mm

SUPPLY GRILLE MOUNTED VERTICALLY AT THE UPSTAND OF THE COFFER CEILING. APPROX DIMS 3000mmL x 121mmW WITH 200mm & 204mm x 60mm SUPPLY DUCT CONNECTIONS.

CEILING-MOUNTED DUCTED VRF FAN COIL UNIT. CONTRACTOR TO PROVIDE AN ACCESS PANEL FOR FILTER MAINTENANCE BELOW THE UNIT. APPROX DIMS 900mmW x 732mmD x 250mmH

EXTRACT AIR VALVE (TYPICAL)

200mm CROSS TALK ATTENUATORS FOR THE RETURN AIR TO FCU. (TYPICAL)

SUPPLY AIR VALVE

EXTRACT GRILLE MOUNTED VERTICALLY AT THE UPSTAND OF THE COFFER CEILING. APPROX DIMS 3000mmL x 121mmW.

220mm x 90mm EXTRACT DUCT (TYPICAL TO ALL PRIMARY/MAIN DISTRIBUTION DUCTS)

204mm x 60mm EXTRACT DUCT RISE TO ABOVE

204mm x 60mm EXTRACT DUCT RISE TO ABOVE

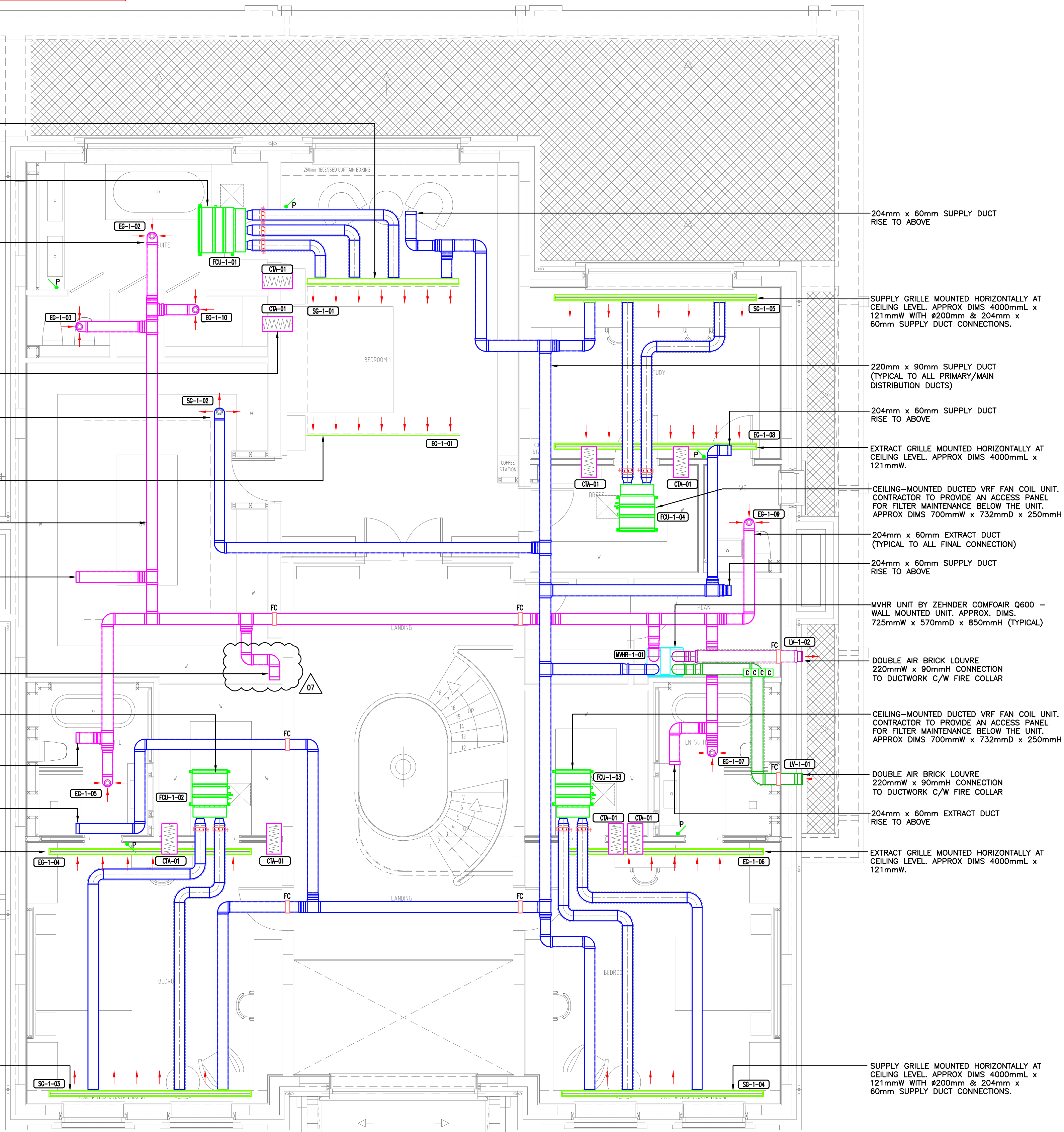
CEILING-MOUNTED DUCTED VRF FAN COIL UNIT. CONTRACTOR TO PROVIDE AN ACCESS PANEL FOR FILTER MAINTENANCE BELOW THE UNIT. APPROX DIMS 700mmW x 732mmD x 250mmH

204mm x 60mm EXTRACT DUCT RISE TO ABOVE

204mm x 60mm SUPPLY DUCT RISE TO ABOVE

EXTRACT GRILLE MOUNTED HORIZONTALLY AT CEILING LEVEL. APPROX DIMS 4000mmL x 121mmW.

SUPPLY GRILLE MOUNTED HORIZONTALLY AT CEILING LEVEL. APPROX DIMS 4000mmL x 121mmW WITH 200mm & 204mm x 60mm SUPPLY DUCT CONNECTIONS.



REVISION				
REV	DESCRIPTION	DATE	CHK	
07	CLIENT COMMENTS INCORPORATED	MAR '26	JF	
06	MVHR SIZE AMENDMENTS	DEC '25	JF	
05	UPDATED FOR LATEST ARCHITECTURE	AUG '25	JF	
04	UPDATED FOR LATEST ARCHITECTURE	JUN '25	JF	
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CLIENT	GRIGGS
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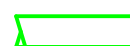
PROJECT	11 SHELDON AVENUE
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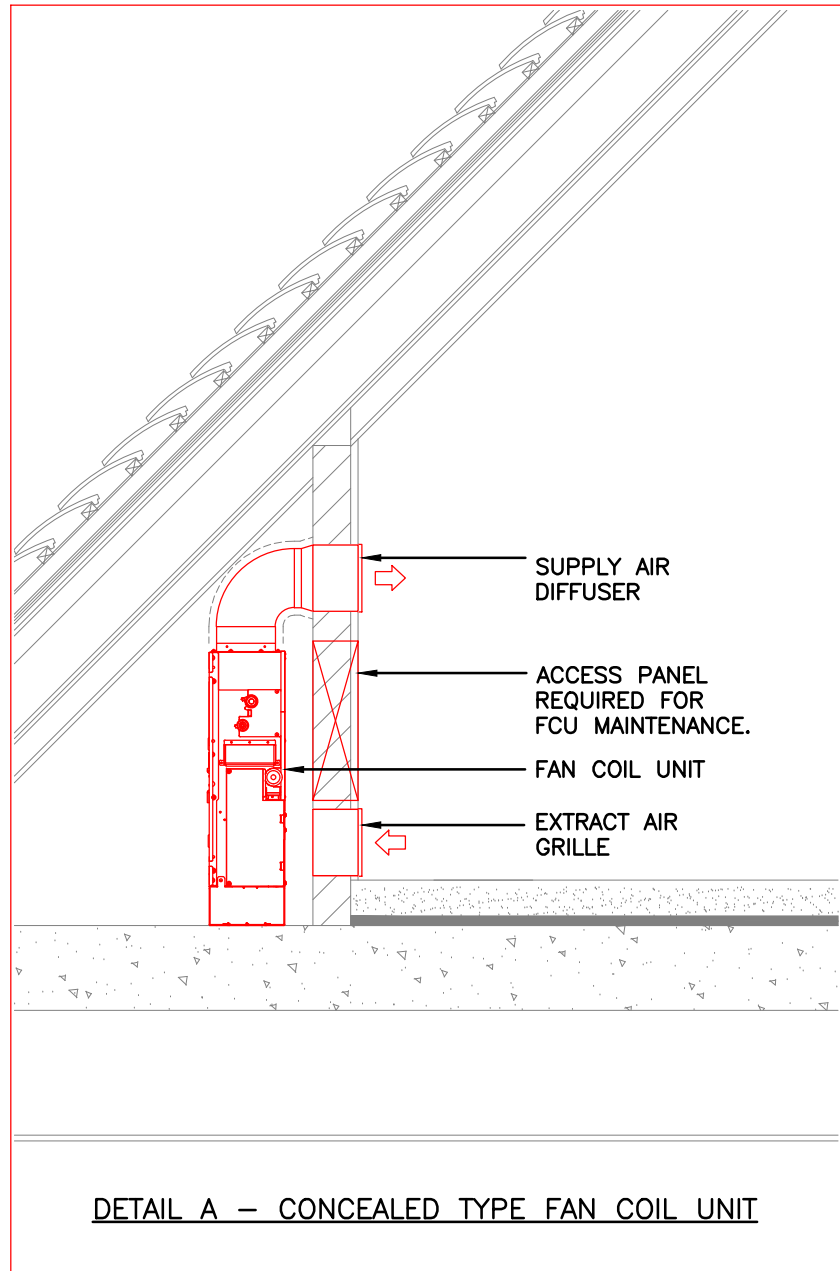
TITLE	FIRST FLOOR VENTILATION LAYOUT
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PURPOSE OF ISSUE	STAGE 4
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DRAWING NUMBER	1405-57-01-LAY-01	REVISION	07
SCALE	1:50	SHEET	A1
DATE	NOV 2024	DRAWN	MR

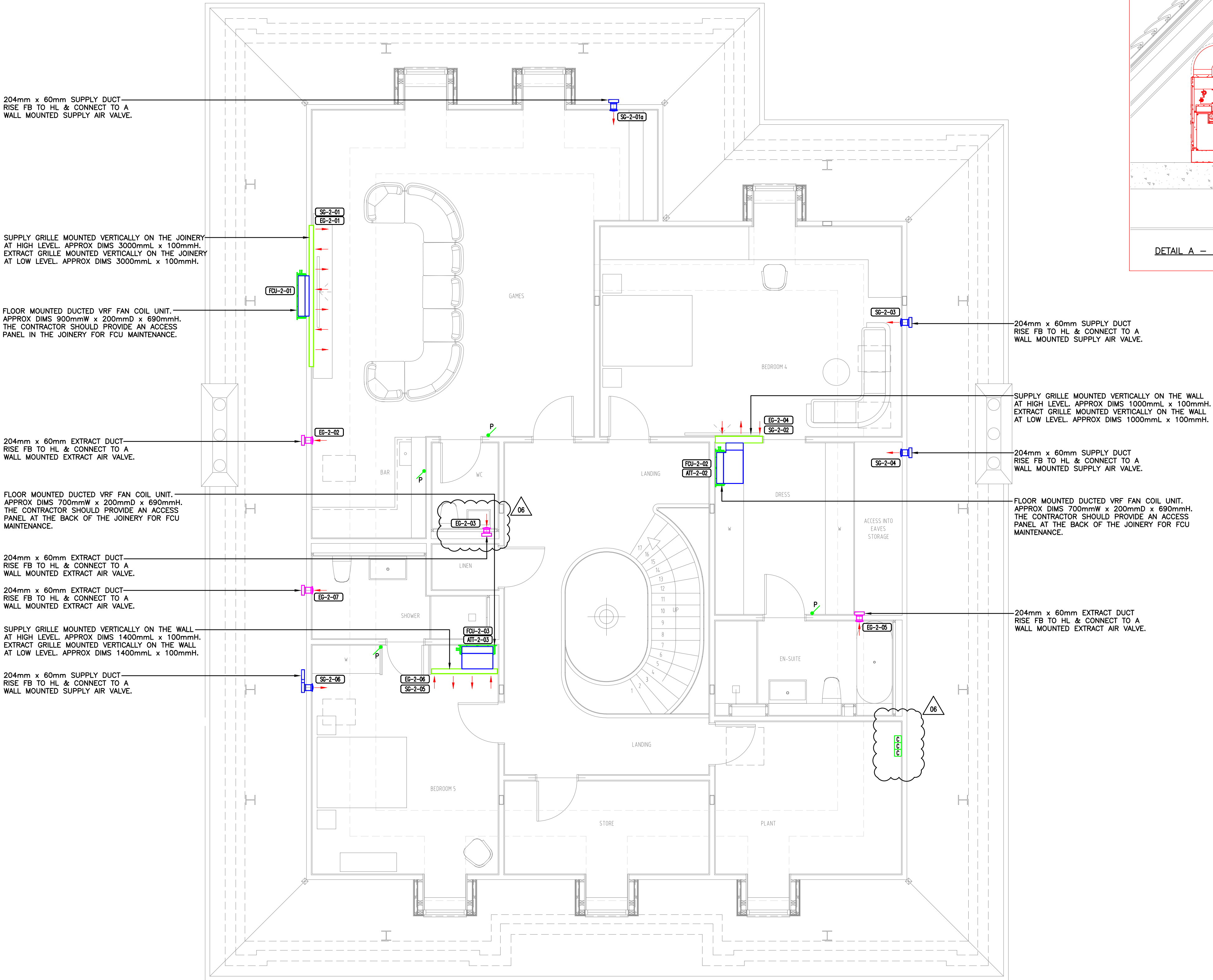
LEGEND:

- P  PUSH BUTTON BOOST CONTROL
-  CEILING VOID INTAKE/EXHAUST DUCTWORK WITH 20mm INSULATION
-  CEILING VOID SUPPLY/EXTRACT DUCTWORK WITHOUT INSULATION
-  FC FIRE COLLAR
-  COOLMASTER WALL CONTROLLER FOR AIR CONDITIONING



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 - SINGLE DUCT RUNS - 150mm
 - DUCT CROSSOVER AREAS - 250mm



REVISION			
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GRIGGS

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11 SHELDON AVENUE

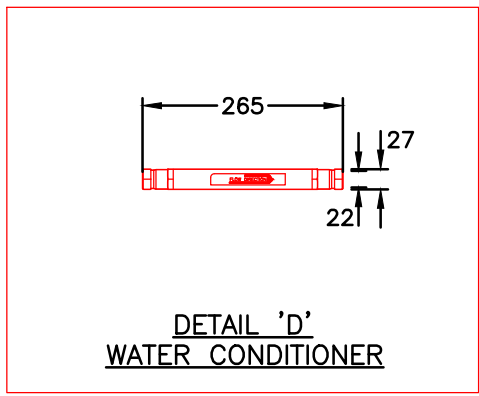
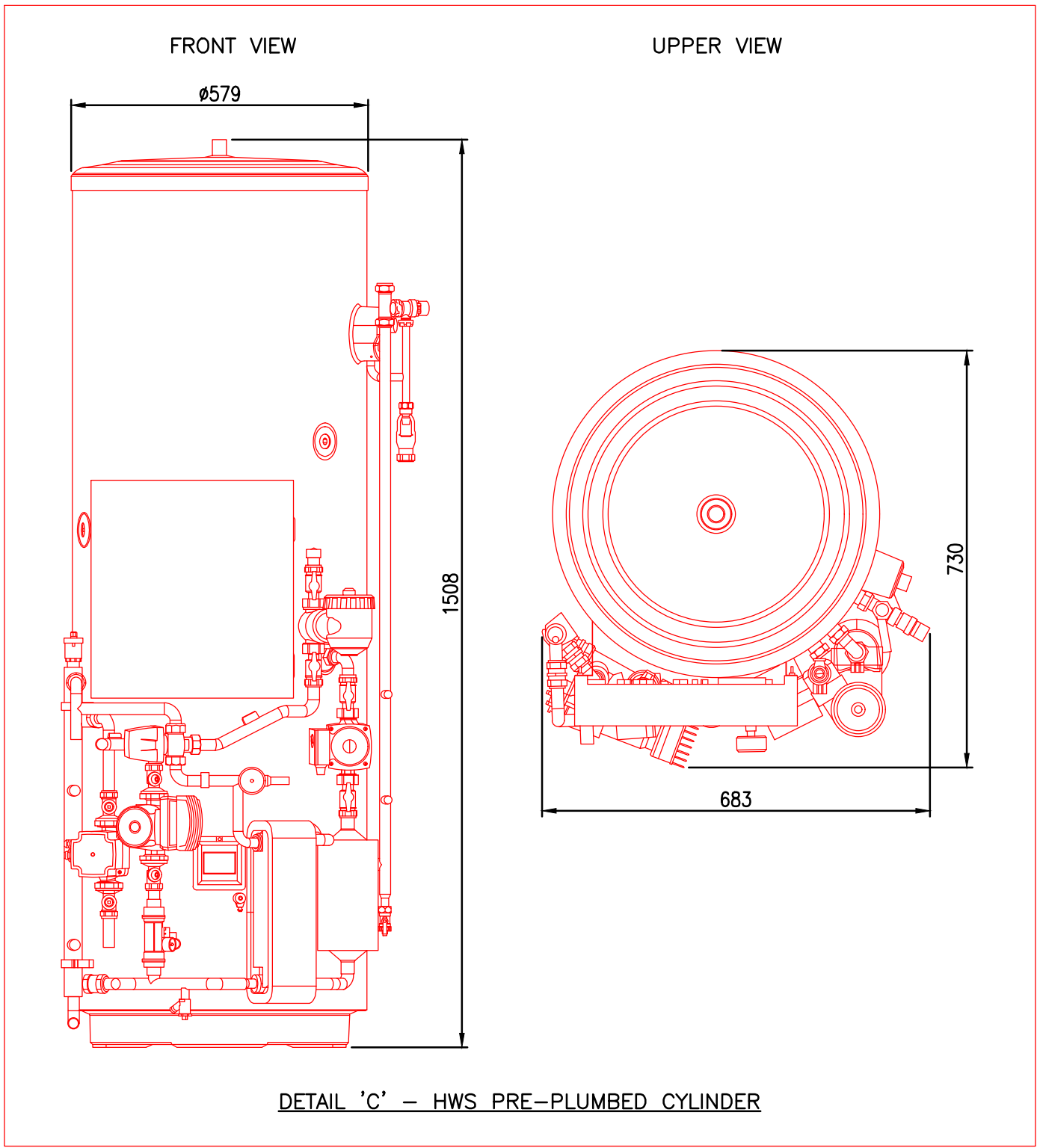
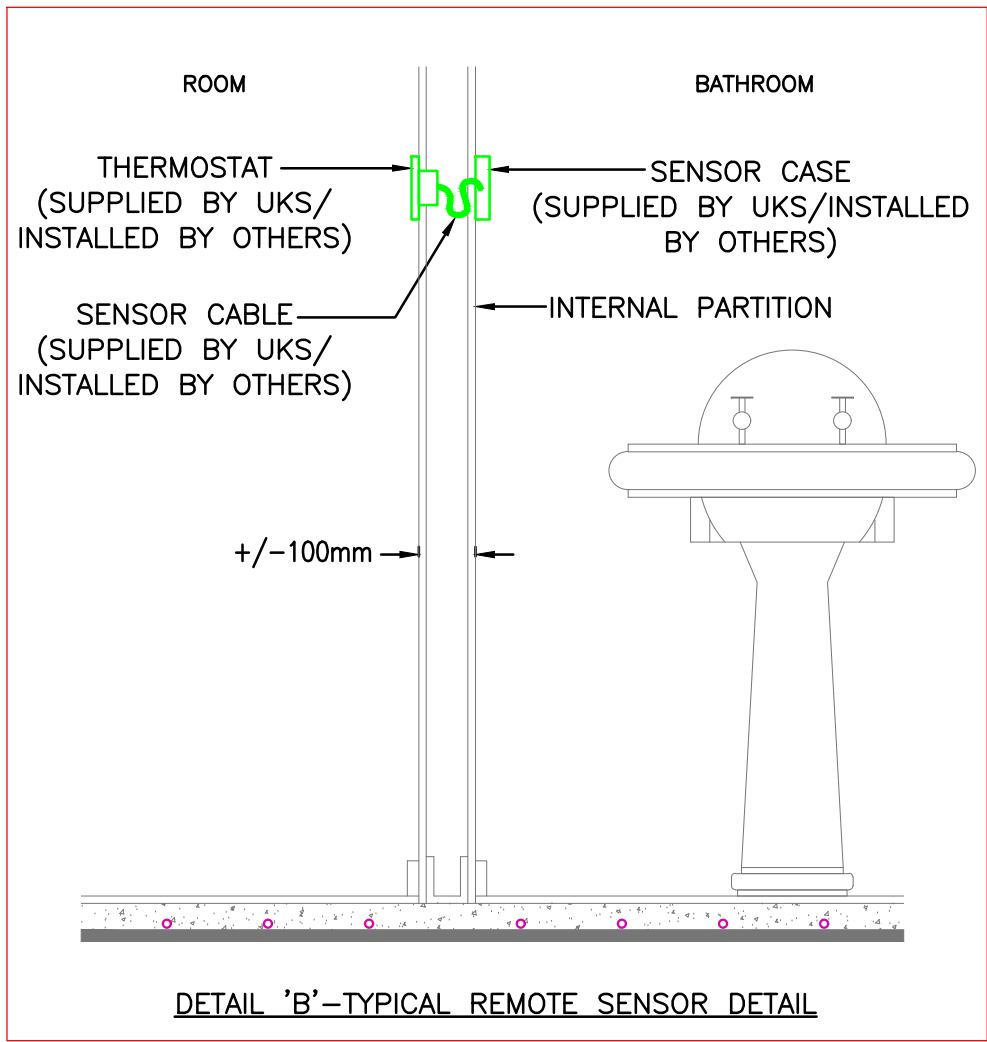
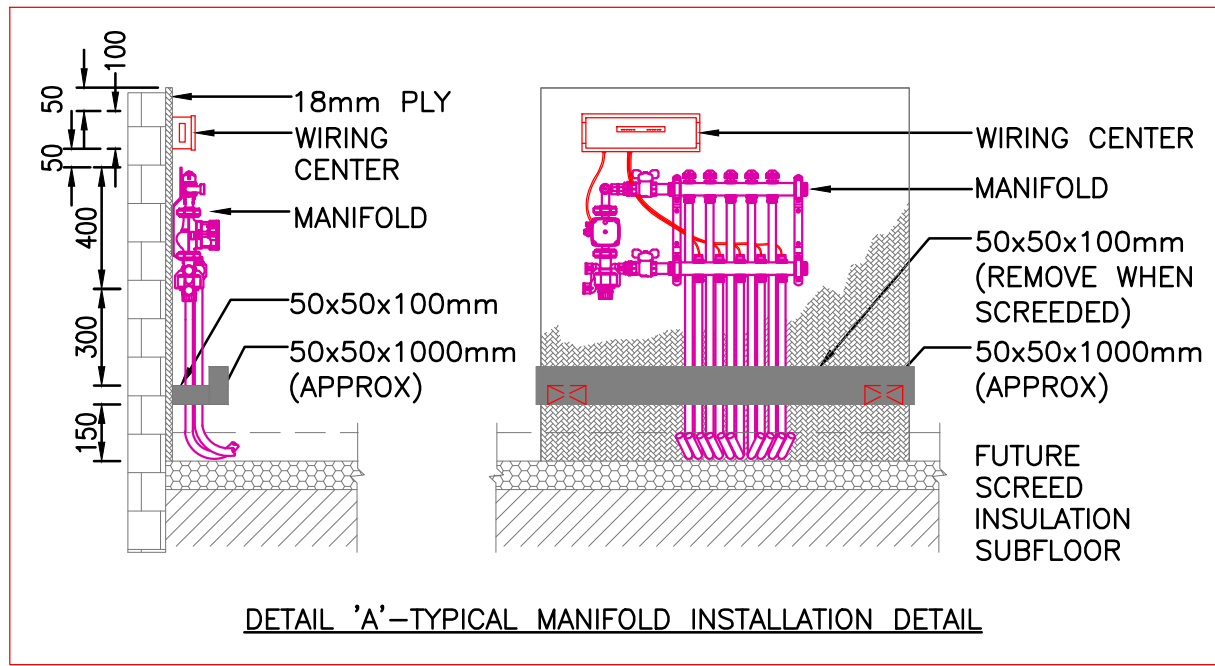
TITLE

SECOND FLOOR VENTILATION LAYOUT

PURPOSE OF ISSUE

STAGE 4

DRAWING NUMBER			REVISION
1405-57-02-LAY-01			07
SCALE	SHEET	DATE	DRAWN
1:50	A1	NOV 2024	MR



- LEGEND:**
- ① COMBINED TEMPERATURE SENSOR AND CONTROLLER ABLE TO INTERLOCK THE U/F HEATING AND VRF
 - ① COMBINED TEMPERATURE SENSOR AND CONTROLLER FOR THE U/F HEATING
 - ①-⑤ COMBINED TEMPERATURE SENSOR AND CONTROLLER LOCATED OUTSIDE THE WET ROOM
 - FP FLOOR PROBE
 - FC FLOOR COLLAR
 - SPRINKLER HEAD
 - UNDER FLOOR HEATING ZONE
 - REFRIGERANT PIPEWORK (ROUTED ON A CABLE TRAY WHEN ROUTED HORIZONTALLY)
 - HOT WATER SUPPLY PIPE
 - HOT WATER RETURN PIPE
 - MAINS COLD WATER PIPE
 - BOOSTED COLD WATER PIPE
 - LTHW FLOW PIPE
 - LTHW RETURN PIPE
 - SPRINKLER PIPE

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 - LOW TEMPERATURE HOT WATER TREATMENT TO BE DETAILED BY THE MECHANICAL CONTRACTOR AND ALLOWANCE FOR MANUAL DOSING POT IF REQUIRED.
 - IN-LINE WATER CONDITIONER TO BE POSITIONED ON THE UPSTREAM CWS FEED INTO THE HWS CYLINDER.
 - PRE-PLUMBED CYLINDER TO BE MOUNTED ON A SUITABLE LEVEL BASE TO SPREAD THE LOAD.
 - ASHP SYSTEM TO COME WITH A QUICK FILL LOOP OFF THE MAINS AS PER MANUFACTURERS RECOMMENDATIONS WHICH ALLOWS FOR WATER TREATMENT INJECTION.
 - SPRINKLER DESIGN TO BE DEVELOPED, SPACE PLANNED, INSTALLED AND COMMISSIONED BY A SPECIALIST CONTRACTOR.

1000L COLD WATER TANK C/W BOOSTER SET. APPROX DIMS: 1678mmW x 822mmD x 1973mmH

PIPEWORKS WILL ENTER THE PLANT ROOM AT LL AND RISE TO HL.

25mm INCOMING MAINS COLD WATER.

STIEBEL ELTRON HPA HC 230
APPROX DIMENSIONS: 1050mmW x 480mmD x 1020mmH

25mm PRE-INSULATED LTHW F&R PIPES ROUTED FROM ASHP UNIT TO THE HOUSE. PIPES TO BE ROUTED THROUGH SUITABLY SIZED DUCTS AS THEY ENTER UNDER THE BUILDING AND MUST BE LAID TO FALL AND HAVE NO HIGH POINTS TO AVOID AIR LOCKS.

PRE-INSULATED REFRIGERANT PIPES

VRF CONDENSER. APPROX DIMENSIONS: 1050mmW x 370mmD x 1338mmH

L-R REFRIGERANT PIPES AT HL.
22mm HWSF AT HL.
15mm HWSR AT HL.
28mm BCWS AT HL.
22mm CWS AT HL.
32mm SPRINKLER AT HL.
22mm LTHW F&R AT HL.

15mm CWS AT LL C/W NON RETURN VALVE FOR OUTDOOR TAP.
15mm BCWS, 15mm HWSF & 15mm HWSR PIPEWORK TO BE EXTENDED TO SALON SANITARY WARE.

REFRIGERANT PIPEWORK FROM HL & DROPS TO LL
15mm CWS, 22mm BCWS, 15mm HWSF & 15mm HWSR PIPEWORK TO BE EXTENDED TO KITCHEN SANITARY WARE.

22mm BCWS, 22mm HWSF & 15mm HWSR PIPEWORK TO BE EXTENDED TO BATHROOM SANITARY WARE.

32mm SPRINKLER PIPE AT HL

REFRIGERANT PIPEWORK FROM HL & DROPS TO LL

REFRIGERANT PIPEWORK FROM HL & DROPS TO LL

SPRINKLER HEAD LAYOUT IS INDICATIVE ONLY. FINAL LAYOUT SHALL BE DEVELOPED BY THE SPRINKLER SPECIALIST.

L-R 8 LITRE EXPANSION VESSEL FOR LTHW. APPROX. DIMS: 272mm x 233mmH

25 LITRE EXPANSION VESSEL FOR HOT WATER. APPROX. DIMS: 308mm x 480mmH;

210L PRE-PLUMBED CYLINDER. APPROX DIMENSIONS: 579mm x 1508mmH

22mm LTHW F&R PIPES AT LL TO SERVE UFH MANIFOLD

8-PORT UNDERFLOOR HEATING MANIFOLD. APPROX MANIFOLD DIMS: 867mmL x 300mmD x 550mmH

WATER CONDITIONER

ELECTRIC PANEL HEATER. APPROXIMATE DIMS: 756mmW x 105mmD x 546mmH

REFRIGERANT PIPEWORK FROM HL & DROP TO LL

15mm CWS PIPE AT HL TO BE EXTENDED TO SERVE DRINK STATION

22mm LTHW F&R PIPES DROP TO LL TO SERVE UFH MANIFOLD

8-PORT UNDERFLOOR HEATING MANIFOLD. APPROX MANIFOLD DIMS: 867mmL x 300mmD x 550mmH

15mm CWS, 15mm HWSF & 15mm HWSR PIPEWORK TO BE EXTENDED TO BAR SANITARY WARE.

15mm BCWS, 15mm HWSF & 15mm HWSR PIPEWORK TO BE EXTENDED TO WC SANITARY WARE.

22mm BCWS, 22mm HWSF & 15mm HWSR PIPEWORK TO BE EXTENDED TO GIRLS SHOWER ROOM SANITARY WARE.

32mm SPRINKLER PIPE AT HL

DIMPLEX ELECTRIC CHROME TOWEL RAIL. APPROX DIMS: 843mmH x 602mmW x 155mmD. (TYPICAL)

15mm BCWS, 15mm HWSF & 15mm HWSR PIPEWORK TO BE EXTENDED TO BOYS SHOWER ROOM SANITARY WARE.

15mm CWS AT LL C/W NON RETURN VALVE FOR OUTDOOR TAP.

REVISION			
08	CLIENT COMMENTS INCORPORATED	MAR '26	JF
07	SPRINKLER SYSTEM ADDED	MAR '26	JF
06	UPDATED FOR MEV VENTILATION	JAN '26	JF
05	DRINKS STATION SERVICES ADDED	DEC '25	JF
04	CLIENT COMMENTS INCORPORATED	SEP '25	JF
03	ARCHITECT COMMENTS INCORPORATED	AUG '25	JF
02	REVISED ARCHITECTURAL LAYOUT	JUNE '25	JF
01	STAGE 4 ISSUE	FEB '25	JF
REV	DESCRIPTION	DATE	CHK

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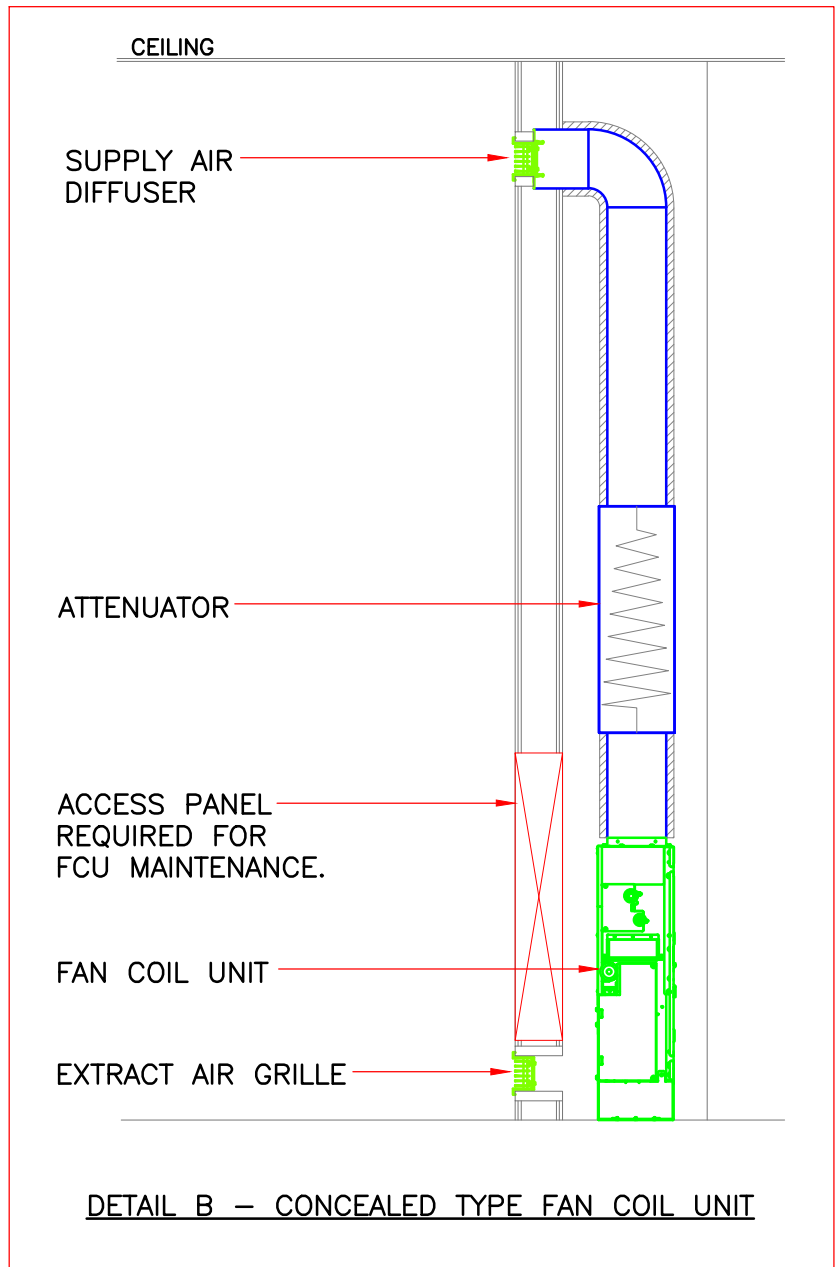
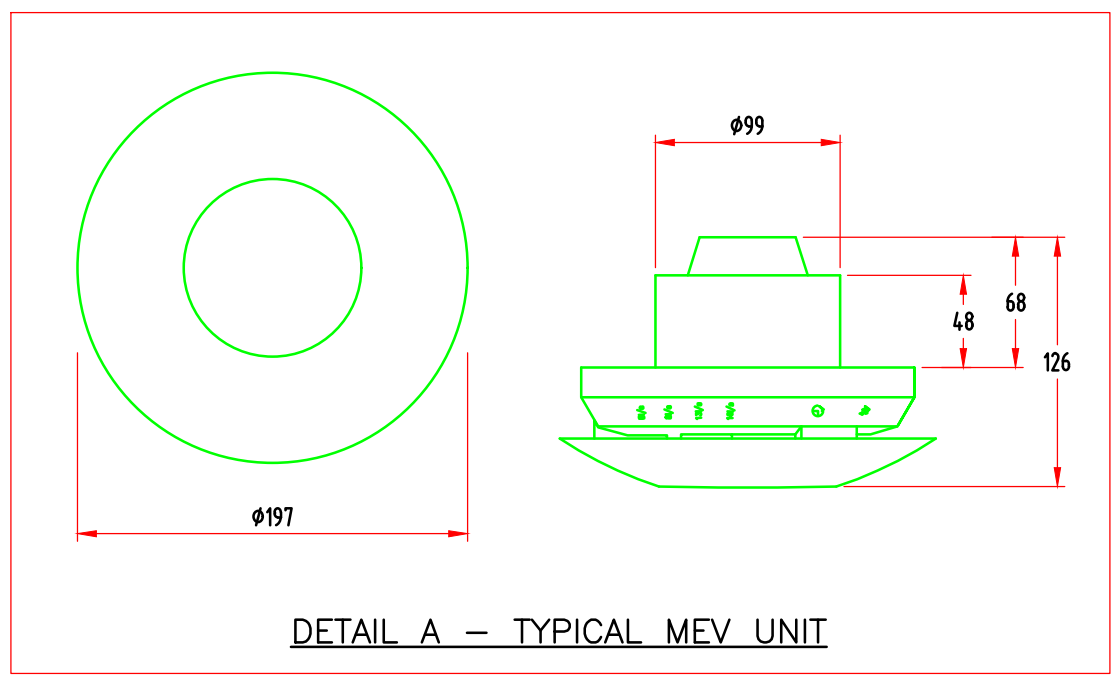
CLIENT
GRIGGS

PROJECT
11 SHELDON AVENUE

TITLE
OUTBUILDING GROUND FLOOR PIPEWORK LAYOUT

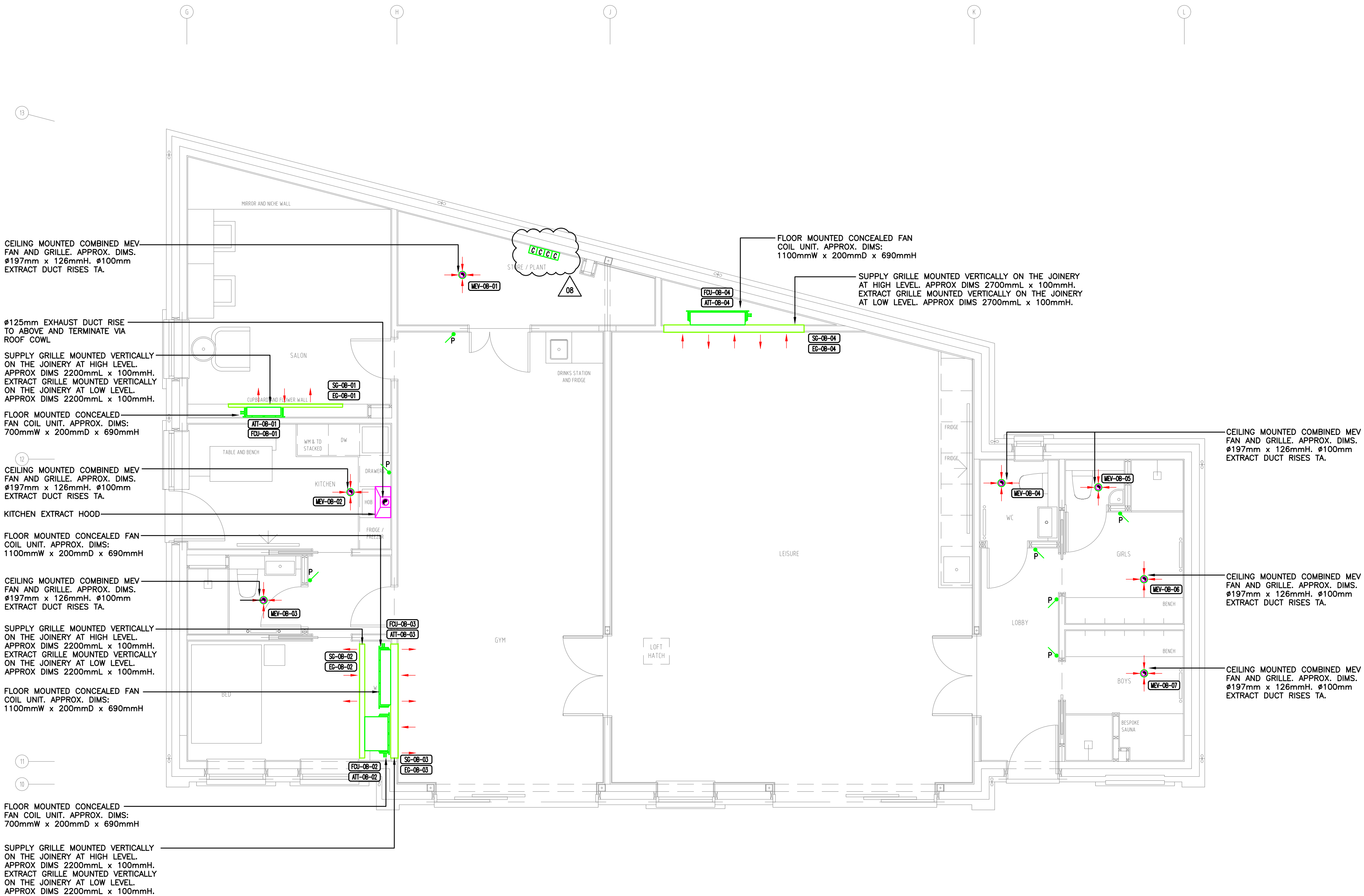
PURPOSE OF ISSUE
STAGE 4

DRAWING NUMBER		REVISION	
1405-56-00-LAY-02		08	
SCALE	SHEET	DATE	DRAWN
1:50	A1	FEB 2025	DE



- LEGEND:
- P PUSH BUTTON BOOST CONTROL
 - FC FIRE COLLAR
 - FCU CONTROLLER

- REFERENCE PLAN: 1405/57/00/LAY/02
- REVISION NO: 08
- NOTES:
- THIS DRAWING TO BE READ IN CONJUNCTION WITH: THE PROJECT SPECIFIC M&E SPECIFICATIONS. THE PROJECT SPECIFIC DESIGNERS RISK ASSESSMENTS.
 - ALL WORKING DRAWINGS SHALL BE UNDERTAKEN BY THE SERVICES SUB CONTRACTOR TO ALL OF THE LATEST INFORMATION PROVIDED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
 - THE SERVICES CONTRACTORS SHALL FULLY COORDINATE THE MECHANICAL, ELECTRICAL, PUBLIC HEALTH AND FIRE PROTECTION DRAWINGS WITH ALL OTHER CONTRACTORS, SPECIALISTS AND TRADES.
 - THE SERVICES CONTRACTORS SHALL FULLY LIAISE WITH ALL OTHER CONTRACTORS TO ENSURE ADEQUATE PERMANENT FLOOR, WALL AND CEILING ACCESS PANELS FOR THE BUILDING SERVICES ARE FULLY DETAILED AND INSTALLED.
 - THE SERVICES CONTRACTORS SHALL PROVIDE TECHNICAL SUBMISSIONS FOR ALL MATERIALS TO THE PROFESSIONAL TEAM PRIOR TO ORDER FOR THEIR COMMENTS.
 - ALL DIMENSIONS IN MILLIMETERS (UNLESS OTHERWISE NOTED). ALL DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS.
 - DO NOT SCALE FROM THESE DRAWING. REFER TO ARCHITECTS DRAWINGS FOR SETTING OUT AND DIMENSIONAL DATA.
 - ALL SERVICES PASSING THROUGH FIRE AND SMOKE BARRIERS/WALLS SHALL BE SUITABLY FIRE STOPPED TO THE SAME STANDARDS AS THE BARRIER/WALL BEING PENETRATED.
 - DUCTS SHALL BE FITTED WITH FIRE WRAP AT EACH FIRE COMPARTMENT PENETRATION REFER TO ARCHITECTS DRAWINGS FOR FIRE COMPARTMENT DETAILS.
 - ALL SPACES THAT HAVE AN ACTIVE EXTRACT VENTILATION TO HAVE THEIR DOORS UNDERCUT BY 10mm OR A DEDICATED DOOR TRANSFER GRILLE.
 - ALL BENDS IN DUCTWORK ROUTES TO HAVE VANES TO REDUCE PRESSURE DROP.
 - ALL EXTRACT GRILLES TO COME WITH INTEGRAL FILTER FOR EASY MAINTENANCE AND TO SATISFY NHBC REQUIREMENTS.
 - CONTRACTOR TO REFER TO ARCHITECT'S PLANS AND ELEVATIONS FOR SETTING OUT OF DOUBLE AIR BRICKS.
 - CONTRACTOR TO REFER ARCHITECT'S REFLECTED CEILING PLAN FOR SETTING OUT OF THE GRILLES.
 - TRICKLE VENTS TO BE PROVIDED IN ALL WINDOWS IN OCCUPIED AREAS TO MEET PART F REGULATIONS. 4000mm² OF TRICKLE VENTILATORS REQUIRED FOR EACH HABITABLE ROOM.
 - CEILING MOUNTED MEV UNITS TO BE HUNG FROM ANTI-VIBRATION SUPPORTS TO REDUCE NOISE AND MOVEMENT TRANSFER.
 - CLEAR CEILING VOID DEPTHS REQUIRED FOR SERVICES:
 - MINIMUM LIGHTING ZONE - 150mm
 - SINGLE DUCT RUNS - 150mm
 - DUCT CROSSOVER AREAS - 250mm



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CLIENT	GRIGGS
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PROJECT	11 SHELDON AVENUE
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TITLE	OUTBUILDING GROUND FLOOR VENTILATION LAYOUT
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PURPOSE OF ISSUE	RIBA STAGE 4
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