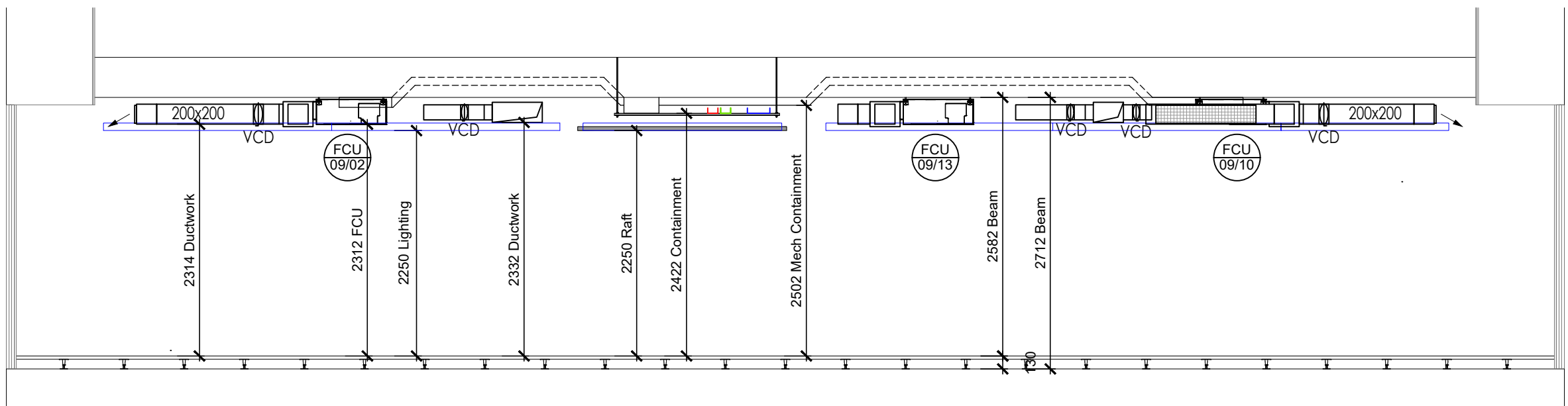


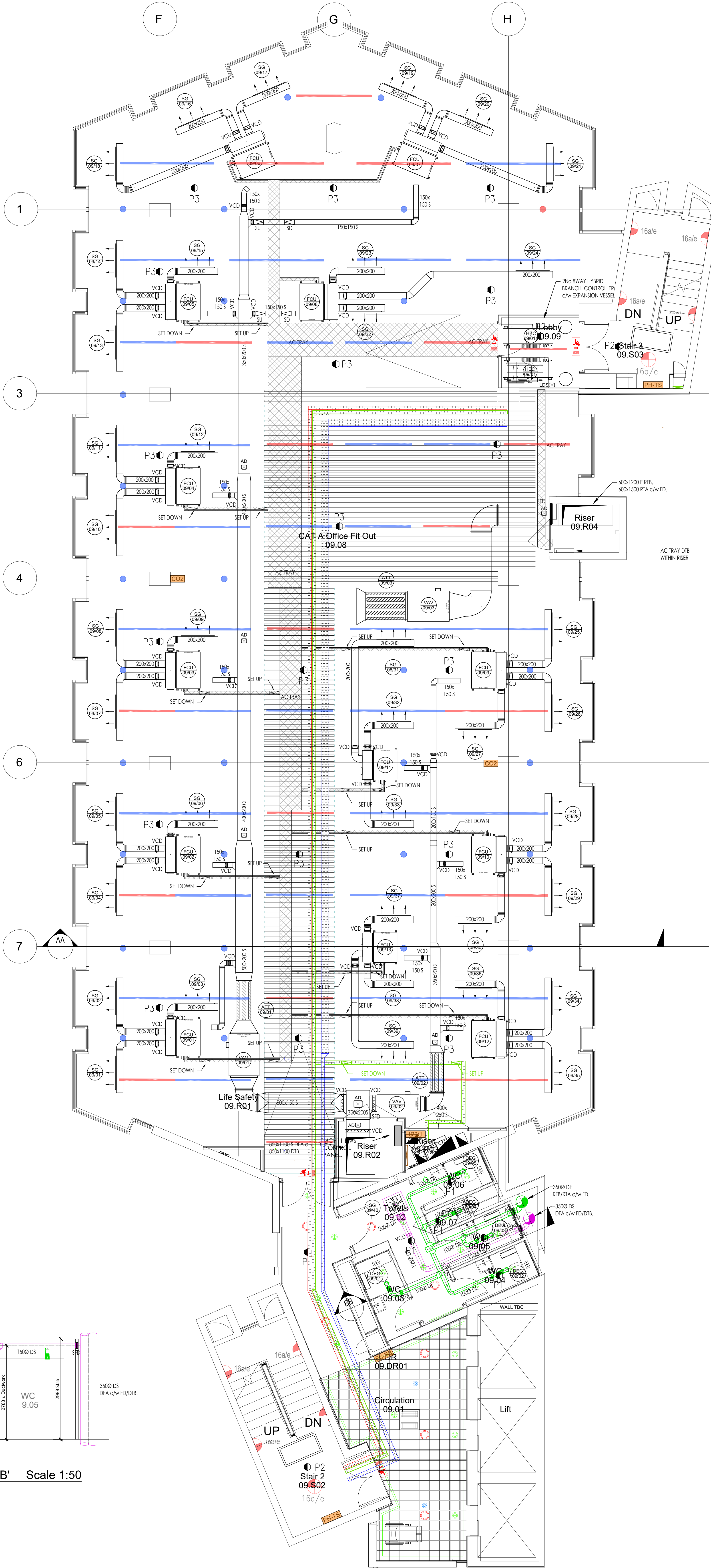


SECTION 'A' - 'A' ON GRID LINE 7 Scale 1:50

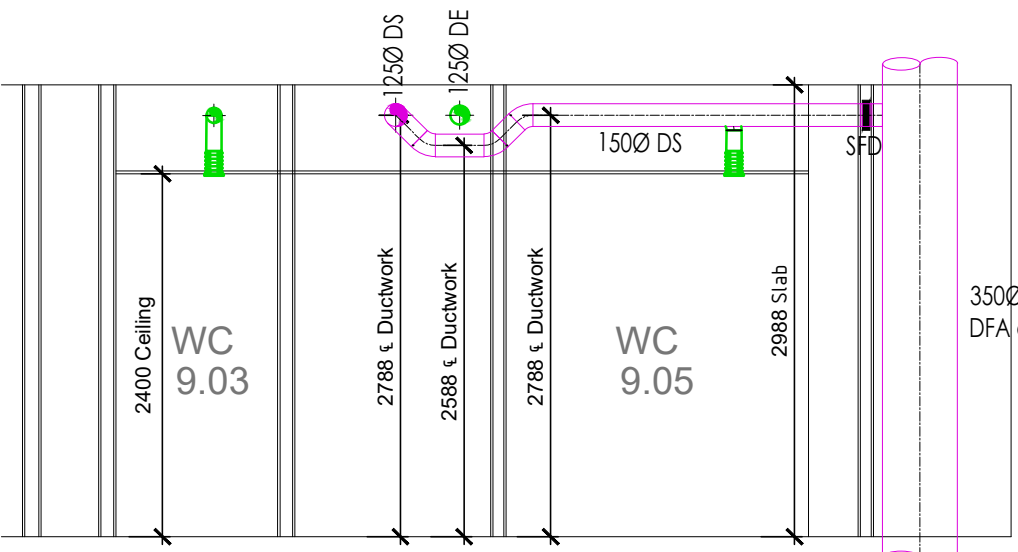
HVFR Tower Block 9th Floor Zone 1									
CU Ref	Location	Model	Cooling KW	Heating	COP	EC A	Input KW	Rate	
HVFR-09-01	Lower Roof	PURY-EM507NW-A1	56	63	3.4/3	27.9 / 28.9	18.56	501/h	
Unit Ref	Room	Model	Type	Air l/s	Required Sensible Cooling KW	Required Heating KW	NR		
FCU09-01	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-02	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-03	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-04	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-05	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-06	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-07	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-08	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-09	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-10	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-11	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	200	2.23	1.45	27		
FCU09-12	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	300	3.45	2.05	29		
FCU09-13	CAT A Office 09.08	FEYWPAD-VMA-E	FCU	200	2.23	1.45	27		
HBC Ref	Location	Model	No	Size	EC A	EC A	Input KW	Rate	
HBC-09-01	Corridor	CMB-WN10V-AA	8	132x630x300	2	2.83	0.46	6	
HBC-09-03	Corridor	CMB-WN10V-AA	8	132x630x300	2	2.83	0.46	6	

VAV Schedule Ninth Floor									
Unit Ref	Zone Served	Model	Attenuator	Air max (Pa)	JP (Pa)	Dimensions (mm)	Connections (mm)	Room	
VAV-09-01	08.08 - CAT A Office (West) - Supply	T2Silencio250/BMO	No	411	32	1250 700 311	598 201	35	
VAV-09-02	08.08 - CAT A Office (East) - Supply	T2Silencio200/BMO	No	281	35	1250 600 381	458 210	35	
VAV-09-03	08.08 - CAT A Office - Extract	T2Silencio316/BMO	No	662	35	1250 600 361	768 252	35	

Attenuator Schedule Ninth Floor									
Ref	System	Location	L/S	Dimensions (mm)	Noise Criteria	Max PD (Pa)	Duct Size		
ATT-09	VAV-09-01 Supply Air	08.08 CAT A Office	416	Width: 700 Height: 311 Length: 1250	35	30	400x250		
ATT-09	VAV-09-02 Supply Air	08.08 CAT A Office	280	Width: 600 Height: 381 Length: 1250	35	30	400x200		
ATT-09	VAV-09-03 Extract Air	08.08 CAT A Office	696	Width: 600 Height: 361 Length: 1250	35	30	800x250		



PLAN AT 9th FLOOR LEVEL Scale 1:50



SECTION ON 'B' - 'B' Scale 1:50

- NOTES
- CONDENSATE DRAINS TO FOLLOW ROUTES OF REFRIGERATION PIPEWORK AND DISCHARGE INTO LOCAL WASTE STACK (LOCATION TO BE AGREED ON SITE TO SUIT FALL OF DRAIN PIPEWORK)
 - FOR DETAILS OF LHW PIPEWORK SEE DRG. CW1193-M-09-01

ELECTRICAL EQUIPMENT LEGEND

- FIRE ALARM BASKET
- POWER BASKET
- COMMS TRAY

MECHANICAL EQUIPMENT LEGEND

- MITSUBISHI HVFR DUCTED FAN COIL
- DUCT MOUNTED LINEAR GRILLE
- VOLUME CONTROL DAMPER
- VOLUME CONTROL DAMPER
- ATTENUATOR
- VAV - VARIABLE AIR VOLUME UNIT
- SMOKE/FIRE DAMPER
- ACCESS DOOR
- AC PIPEWORK TRAY
- AC PIPEWORK
- LEAK DETECTION SENSOR

Revision									
Revision	Ref	Description	Author	Check	Appr	Date	For Approval	For Approval	For Approval
1	P1	Undated as comments from client 13.09.24. Reissued for approval.							
2	P2	Undated as comments from client. Reissued for final approval.							
3	P3	Reissued for final approval. Updated as comments from client 14.06.24							
4	P4	PROVISION ISSUE FOR INFORMATION ONLY - NOT FOR ISSUE TO CLIENT							
5	P5	SD09-18 and SD09-21 repositioned to give better air distribution. VAV09-03 & ATT09-03 repositioned due to limited height above ceiling void.							
6	P6	For Approval							
7	P7	Revision description							

Client		Bruntwood	
Project		Pall Mall Manchester	
Title		Coordinated M+E Services Layout 9th Floor Level	
Drawn by		P.S.	
Checked by		D.I.	
Approved by		S.K.	
Scale		1:50	
Sheet Size		A0	
Issue Date		March24	
Contract No.		CW1193	
Drawing No.		ME-59-09-01	
Revision		P6	
The contractor is to check all dimensions and conditions on site before commencing. (If NOT SCALE - USE TYPED DIMENSIONS ONLY). This drawing is confidential & is the property of CubicWorks Ltd. It must not be copied, lent or disclosed to any third party without prior written consent.		2nd Floor Spinnaker Court, 31 Broadway, Salford, Manchester M50 2YR.	

ISSUED FOR APPROVAL



CubicWorks