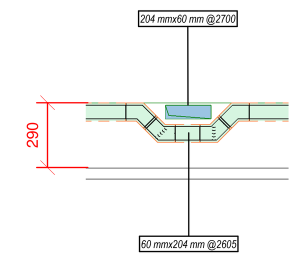
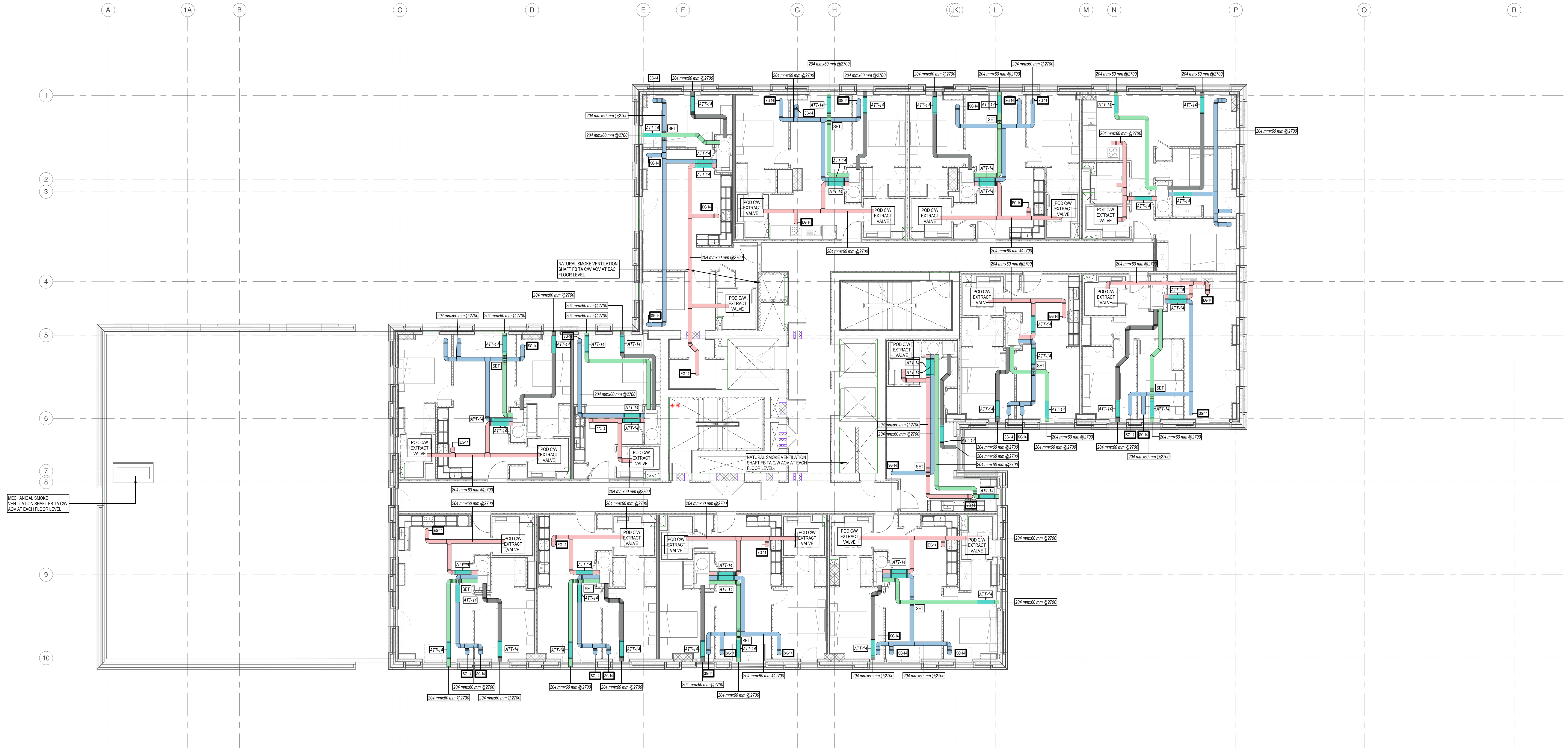
DRAWING NOT TO SCALE



2 Crossover - Level 14
1 : 20

DUCTWORK RUNNING TO EXTERNAL FACADE TO HAVE AVOUSTIC INSULATION BETWEEN ATTENUATOR AND PLENUM

MVHR TO BE SELECTED FOLLOWING COMPLETION OF SAP / OVERHEATING CALCS



1 Level 14 - Ventilation
1 : 100

Level 14 - Attenuator Schedule			
ABE_Equipment Reference Number	Manufacturer	Model Type	Count
ATT-14	Allaway Acoustics	SL - GR6TS	52

Level 14 - Supply Air Terminal Schedule			
ABE_Equipment Reference Number	Size	Type	Count
SG-14	125 mmø	AirTerminal_ABE_125-CirlcularAirValve-Supply	32

Level 14 - Extract Air Terminal Schedule			
ABE_Equipment Reference Number	Size	Type	Count
EG-14	125 mmø	AirTerminal_ABE_125-CirlcularAirValve-Return	14

BUILDING SERVICES ENGINEERS
LIVERPOOL

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REVISION	ITEM REVISED	DATE
P01	PRELIMINARY ISSUE	09.12.21

NOTES

VENTILATION NOTES

1. DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY UNLESS OTHERWISE STATED, ALL DIMENSIONS ARE GIVEN IN MILLIMETRES OR METRES. ALL DIMENSIONS TO BE CHECK ON SITE BY INSTALLERS PRIOR TO COMMENCEMENT OF WORKS.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS / DOCUMENTS / SCOPE OF WORKS AND SPECIFICATIONS. THIS DRAWING SHOULD ONLY BE USED FOR ITS INTENDED PURPOSE.

3. BEFORE COMMENCEMENT OF WORK ASSOCIATED WITH THIS DRAWING REFER TO THE APPROPRIATE METHOD STATEMENTS AND RISK ASSESSMENTS.

4. ALL DUCTWORK SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH DW/144 AND CIBSE COMMISSIONING CODES.

5. ALL DUCTWORK TO BE SUPPORTED IN ACCORDANCE WITH DW/144 ARRANGEMENT OF BEARERS AND HANGERS.

6. ACCESS PANELS TO BE PROVIDED ADJACENT TO ALL FIRE DAMPERS ON BOTH SIDE UNLESS EQUIPMENT CLARIFICATION.

7. INSPECTION PANELS TO BE PROVIDED ADJACENT TO ALL VOLUME CONTROL DAMPERS AND VCD'S AND AT LEAST EVERY 9M FOR FUTURE MAINTENANCE AND CLEANING.

8. FOR LOCATIONS OF ACCESS PANELS FOR INSPECTION / SERVICING AND OR CLEANING REFER TO TABLE 20 OF THE DW144 INTERNAL.

9. ALL ACCESS/INSPECTION HATCHES ARE TO BE PROPRIETARY MANUFACTURED WITH QUICK RELEASE CATCHES AND SELF SEALING GASKETS.

10. ALL ACCESS/INSPECTION PANELS SHALL REMAIN ACCESSIBLE, THE INSULATION CONTRACTOR SHALL SUITABLY DRESS THE EDGES OF THE INSULATION TO THE EDGE OF THE ACCESS OPENING.

11. THE USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 500mm IN LENGTH TO MAKE FINAL CONNECTIONS ONLY.

12. DUCTWORK SHALL BE MANUFACTURED WITH GRADUAL TRANSFORMATIONS AND CHANGES OF SHADE/DIRECTION.

13. TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR SECTION DUCTWORK AT ALL CHANGES IN DIRECTION.

14. FLEXIBLE CONNECTIONS SHALL BE INCORPORATED WITHIN THE DUCTWORK SYSTEM TO ISOLATE THE DUCTWORK DISTRIBUTION SYSTEM FROM VIBRATION PRODUCING EQUIPMENT.

15. GRILLES AND DIFFUSERS SHALL BE PROVIDED WITH THE MANUFACTURERS PURPOSE MADE PLENUM BOX (SIDE OR TOP ENTRY SPIGOT AS NECESSARY) WHERE INDICATED.

16. ALL GRILLES AND DIFFUSERS SHALL HAVE A FINISH/COLOUR TO SUIT THE ARCHITECTS REQUIREMENTS.

17. ALL AIR DISTRIBUTION DUCTS PASSING THROUGH ELEMENTS OF STRUCTURE FORMING FIRE COMPARTMENTS SHALL INCORPORATE A FIRE DAMPER. THE FIRE DAMPER ARRANGEMENT INCLUDING SUITABLE HVCA INSTALLATION FRAME (IF APPLICABLE), SHALL HAVE A FIRE RESISTANCE RATING EQUAL TO THE ELEMENT WHICH IT PENETRATES.

18. ALL BRANCHES FROM THE MAIN DISTRIBUTION DUCTS SHALL BE BY A SHOE-BRANCH FITTING.

19. DUCTWORK TO BE THERMALLY INSULATED AS INDICATED WITHIN THE MECHANICAL SPECIFICATION.

20. FUSIBLE LINK FIRE DAMPERS TO BE PROVIDED WHERE DUCTS PASS THROUGH CAVITY BARRIERS / FIRE COMPARTMENTATION IN COMPLIANCE WITH THE FIRE ENGINEERS REPORT.

LEGEND

EF - EXTRATCT FAN
HRU - HEAT RECOVERY UNIT
SG - SUPPLY GRILLE
EG - EXTRACT GRILLE
RG - RETURNS GRILLE
FD - FIRE DAMPER
VAV - VARIABLE AIR VOLUME
HB - HEATER BATTERY
VCD - VOLUME CONTROL DAMPER
ATT - ATTENUATOR
TG - TRANSFER GRILLE
DT - DOOR TRANSFER GRILLE
SV - SMOKE VENT
AOV - AUTOMATIC OPENING VENT

- 204 x 60 mm SUPPLY AIR
- 204 x 60 mm RETURN AIR
- 204 x 60 mm FRESH AIR - C/W INSULATION
- 204 x 60 mm EXHAUST AIR - C/W INSULATION

PRELIMINARY

CLIENT
MIDGARD

ARCHITECT
AXIS ARCHITECTS

CONTRACT
THE CASTINGS

TITLE
Mechanical Services - Ventilation Services - Fourteenth Floor

DRAWN	CHECKED	SCALE
DM	PW	As indicated@A0

DATE	DRAWING No	REV
24.09.21	CAS-ABE-XX-L14-DR-M-57-0001	P01

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