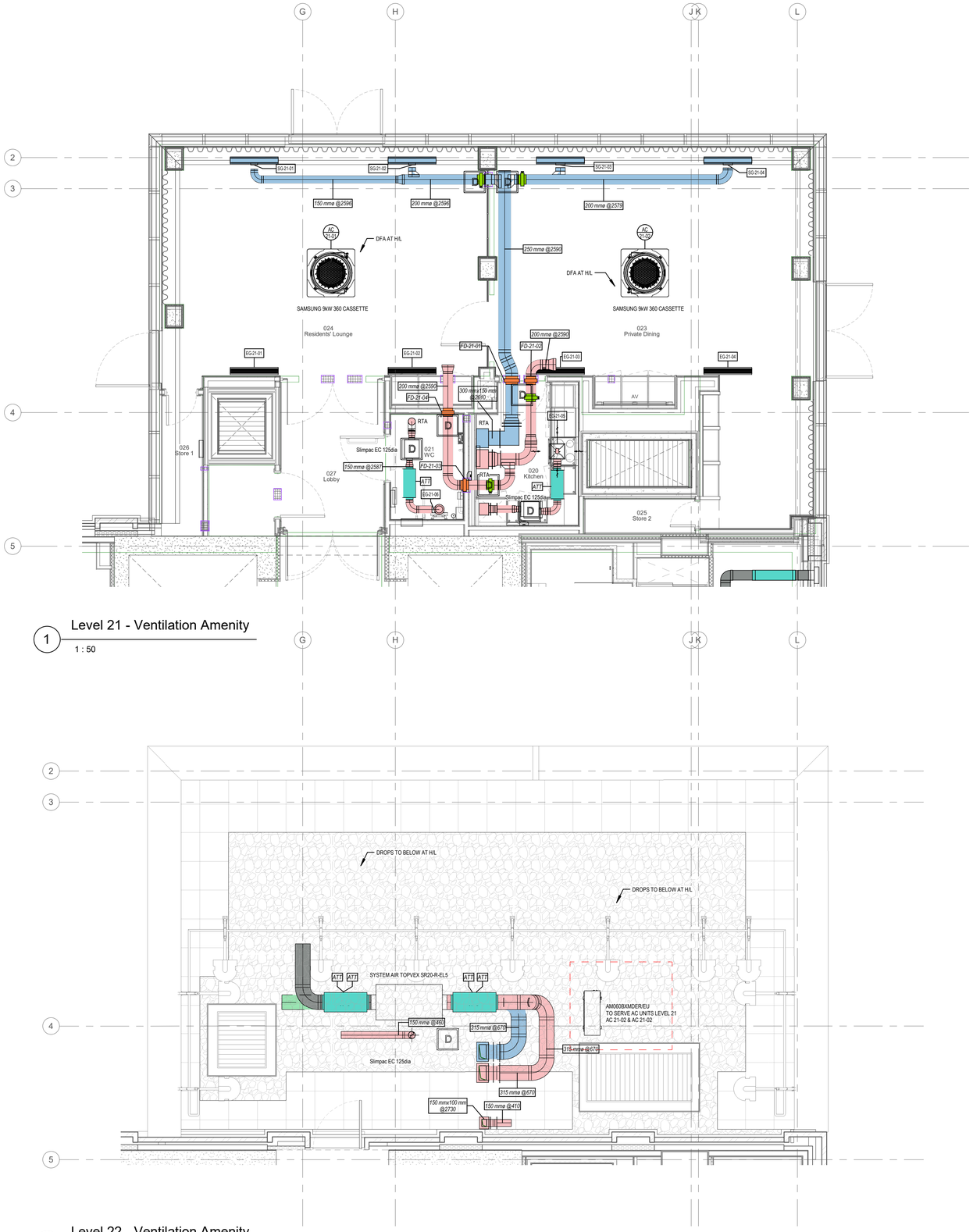
DRAWING NOT TO SCALE



1 Level 21 - Ventilation Amenity

1 : 50

2 Level 22 - Ventilation Amenity

1 : 50

Fire Dampers - Amenity Level 21	
ABE_Equipment Reference Number	ABE_Ductwork_Diameter
FD-21-01	250
FD-21-02	200
FD-21-03	200
FD-21-04	200

Air Conditioning Units - Amenity Level 21		
ABE_Equipment Reference Number	Manufacturer	Type
AC 21-01	SAMSUNG	9.00 KW, 220-240V, VRF 360 CASSETTE(Circle)
AC 21-02	SAMSUNG	9.00 KW, 220-240V, VRF 360 CASSETTE(Circle)

Amenity - Level 21 - Extract Grille Schedule				
ABE_Equipment Reference Number	Type	ABE_AirFlow (l/s)	Diffuser Width	Connector Diameter
EG-21-01	JSL-P	42.0 L/s	1000	150
EG-21-02	JSL-P	42.0 L/s	1000	150
EG-21-03	JSL-P	50.0 L/s	1000	150
EG-21-04	JSL-P	50.0 L/s	1000	150
EG-21-05	AirTerminal_ABE_Diffuser 299x299 160 Spigot SEB - Return	60.0 L/s		
EG-21-06	AirTerminal_ABE_150-CirlcularAirValve-Return	23.0 L/s		

Amenity - Level 21 - Supply Grille Schedule				
ABE_Equipment Reference Number	Type	ABE_AirFlow (l/s)	Diffuser Width	Connector Diameter
SG-21-01	JSL-P	42.0 L/s	1000	150
SG-21-02	JSL-P	42.0 L/s	1000	150
SG-21-03	JSL-P	50.0 L/s	1000	200
SG-21-04	JSL-P	50.0 L/s	1000	200

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 250mm 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. 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
FCU - FAN COIL 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

BUILDING SERVICES ENGINEERS
LIVERPOOL

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REVISION	ITEM REVISED	DATE
P01	PRELIMINARY ISSUE	03.07.23
P02	COMMENTS INCORPORATED	15.08.23
P03	DUCTWORK & GRILLES REVISED & ATTENUATORS ADDED	14.09.23

NOTES:

CLIENT
JRL MIDGARD

ARCHITECT
AXIS ARCHITECTS

CONTRACT
THE CASTINGS

TITLE
Mechanical Services - Ventilation Services - Level 21 & 22 Amenity Fit Out

DRAWN	CHECKED	SCALE
DM	PW	1 : 50

DATE	DRAWING No	REV
26.06.23	CAS-ABE-AME-ZZ-DR-M-57-0052	P03

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