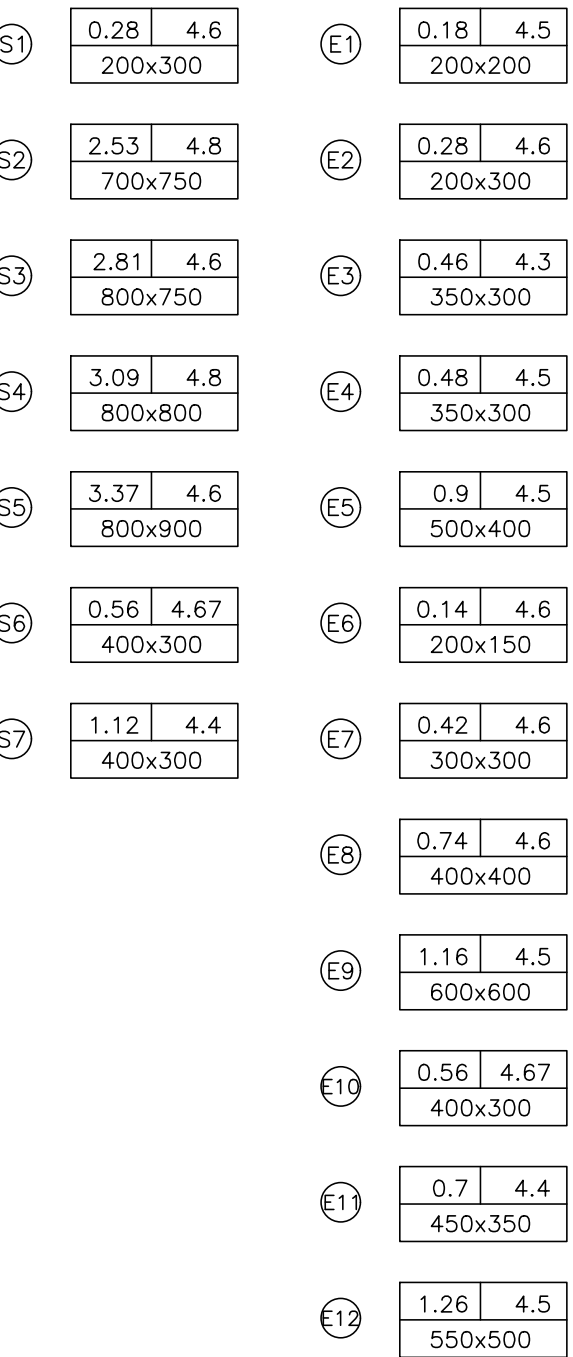




	<u>LEGEND (VENTILATION):</u>	
VCD 	VOLUME CONTROL DAMPER	
FD 	FIRE DAMPER	
	DENOTES ATTENUATOR	
	DENOTES CROSS TALK ATTENUATOR	
	INSULATED SUPPLY DUCTWORK	
	INSULATED EXTRACT DUCTWORK	
	DENOTES 4 WAY BLOW DIFFUSER.	
	LINEAR SLOT DIFFUSER, (REFER TO REFERENCE TAG FOR FURTHER DETAILS)	
	RETURN AIR LINEAR SLOT DIFFUSER, (REFER TO REFERENCE TAG FOR FURTHER DETAILS)	
	DENOTES 600x600/ 450x450 ACCESS HATCH	
	CARBON DIOXIDE SENSOR.	
	MOTORISED VOLUME CONTROL DAMPER	
	LOUVRE UNDER MAIN CONTRACT.	

GENERAL NOTES (VENTILATION):

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND INTERIOR DESIGN DRAWINGS.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT MEP LAYOUTS, SCHEMATICS AND SPECIFICATIONS.

DO NOT SCALE. VERIFY ALL DIMENSIONS BY SITE MEASUREMENT.

ALL VENTILATION DUCTWORK PASSING THROUGH FLOOR SLABS OR INTERNAL FIRE COMPARTMENT WALLS IS TO BE FITTED WITH A FIRE DAMPER.

MECHANICAL CONTRACTOR TO PROVIDE COORDINATED FABRICATION INSTALLATION DRAWINGS FOR COMMENT PRIOR TO INSTALLATION.

ALL PLANT, EQUIPMENT AND ANCLARY POSITIONS ARE INDICATIVE. FINAL LOCATIONS TO BE AGREED WITH THE CONSULTING ENGINEERS FURTHER TO REVIEW OF THE CONTRACTORS COORDINATED INSTALLATION DRAWINGS.

ALL INTERNAL DUCTWORK TO BE INSULATED IN 25mm DUCTWRAP & VAPOUR SEALED TO AVOID CONDENSATION UNLESS OTHERWISE STATED.

ALL EXTERNAL DUCTWORK TO BE INSULATED WITH 40mm FLEXIBLE GLASS FIBRE MAT WITH FOIL BACKING. JOINTS TO BE FULLY TAPED AND PVC CLAMPING BANDS FITTED AT 500mm CENTRES. DENSITY 45kg/m³. THERMAL CONDUCTIVITY 0.037. EXTERNAL DUCTWORK SHALL BE FINALLY FITTED WITH VENTURE CLAD TO ENSURE WATERPROOF FINISH, A SECTION OF GALVANISED SHEET METAL SHALL BE PLACED BETWEEN THE INSULATION AND VENTURE CLAD WITH EDGE OVERLAP TO PROVIDE MECHANICAL PROTECTION.

FIRE DAMPERS ARE TO BE COMPLETE WITH FIXING FRAMES SUITABLE FOR THE FIRE COMPARTMENT PARTITION INTO WHICH THEY ARE BEING INSTALLED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT FIRE DAMPERS ARE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS FIXING DETAILS AND TO FULLY COMPLY WITH THE FOLLOWING EXTRACTS FROM DW 145 AND B59999 RESPECTIVELY, NO DEVIATION WILL BE DEEMED ACCEPTABLE:

“ THE FIRE DAMPER SHOULD BE FIXED EITHER WITHIN OR DIRECTLY ADJACENT TO THE FIRE SEPARATING ELEMENT AND BE SUPPORTED INDEPENDENTLY OF THE CONNECTING DUCTWORK. I.E. IF THE DUCTWORK WERE TO BE REMOVED FROM BOTH SIDES OF THE DAMPER IT WOULD CONTINUE TO BE AN INTEGRAL MEMBER OF THE BARRIER IT PROTECTS.”

“ THE DAMPER SHOULD BE MOUNTED IN THE WALL OR FLOOR AND SHOULD BE SUPPORTED/RESTRAINED INDEPENDENTLY OF THE DUCT WORK.”

ACCESS DOORS SHALL BE INSTALLED IN THE DUCT WORK ADJACENT FIRE DAMPERS IN ACCORDANCE WITH DW.144.

REFER TO FIRE STRATEGY DRAWINGS TO DETERMINE THE FIRE RATING OF SPECIFIC DAMPERS THROUGH EACH FIRE RATED RATED COMPARTMENT / WALL.

REFER TO VENT GRILLE AND LOUVRE SCHEDULE FOR FURTHER DETAILS.

DRAWING NOTES:

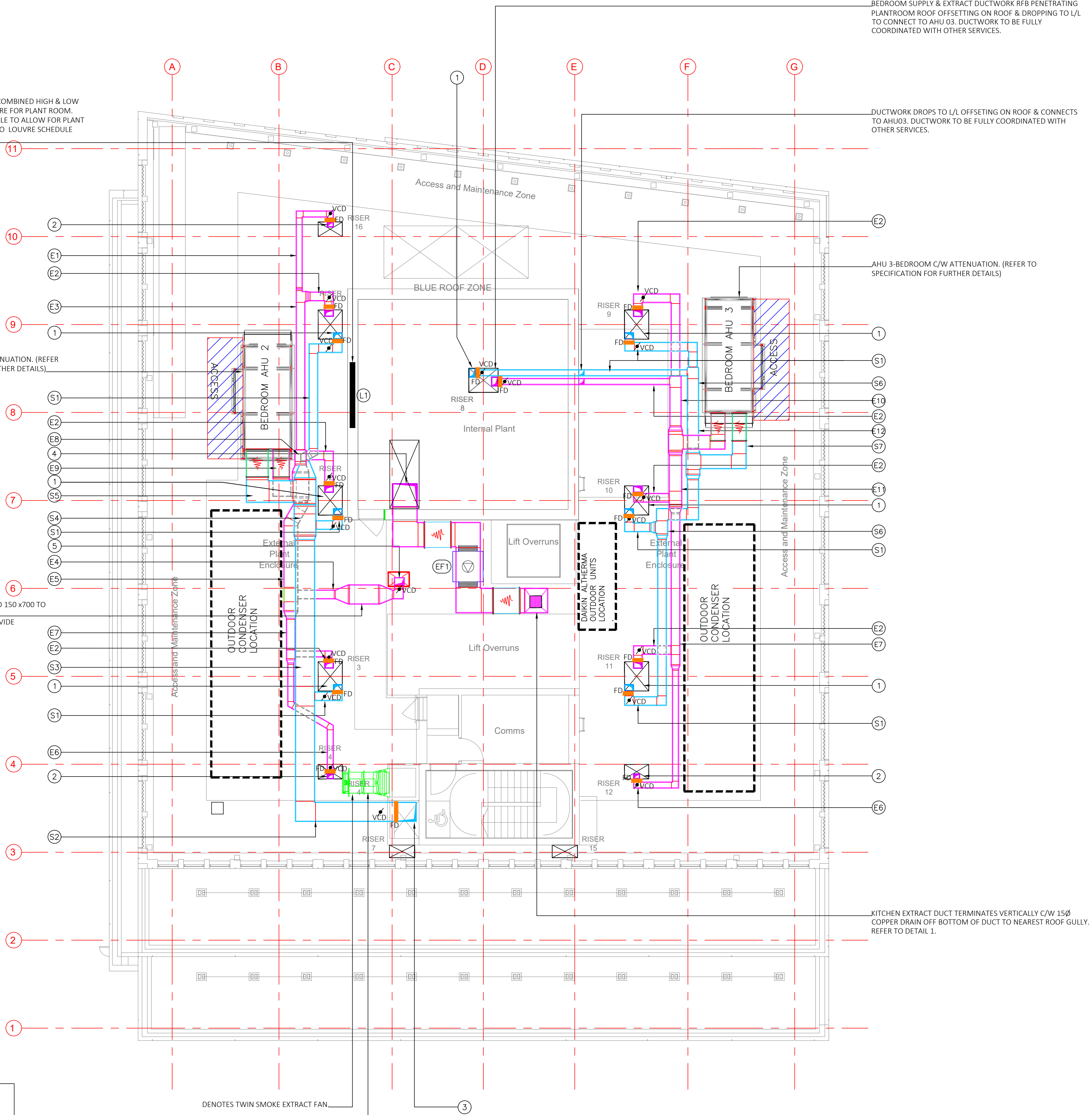
INSULATED SUPPLY & EXTRACT DUCTWORK DBT. TO SERVE DOUBLE BEDROOM RISER. FOR DUCTWORK SIZING & FLOW RATES REFER TO VENTILATION SCHEMATIC 3919/M603-1&2.

INSULATED EXTRACT DUCTWORK DBT. TO SERVE SINGLE BEDROOM RISER. FOR DUCTWORK SIZING & FLOW RATES REFER TO VENTILATION SCHEMATIC 3919/M603-1&2.

700x750 BEDROOM & CORRIDOR INSULATED SUPPLY DUCT WITHIN RISER. REFER TO VENTILATION SCHEMATIC 3919/M603-1&2 FOR FURTHER INFORMATION.

900 X 850 INSULATED FIRE RATED KITCHEN EXTRACT DUCT DROPS TO BELOW WITHIN RISER. CLEANING DOORS AS LISTED: ON VERTICAL DUCTWORK 2ND. PER FLOOR (ONE HIGH LEVEL & ONE LOW LEVEL), ON HORIZONTAL DUCTWORK, A CLEANING DOOR AT EVERY OFFSET & EVERY 2M.

350x300 INSULATED EXTRACT DUCTWORK DBT TO SERVE LINEN ROOM & CORRIDORS. REFER TO VENTILATION SCHEMATIC 3919/M603-1&2 FOR FURTHER INFORMATION.



INCLUDE ALL NECESSARY OFFSETS OF SERVICES IN CEILING VOIDS, SERVICE DUCTS AND ALL OTHER AREAS TO ACHIEVE CROSSOVERS AND CO-ORDINATION OF MECHANICAL AND ELECTRICAL SERVICES.

T1	22/01/20	ISSUED FOR TENDER	DML	G
REV	DATE	DESCRIPTION	DR	C

Caldwell

ARCHITECT
SIMPSON HAUGH
JOB
CHARLES STREET
MANCHESTER

DRAWING
MECHANICAL SERVICES INSTALLATION
VENTILATION

LEVEL 16

DRAWING No./REVISION
3919/M306

SCALE/PRINTED AT 1:100@A1	DATE JAN'20	DRAWN DML	CHECKED GJK
UNIT 6 FORESTGROVE BUSINESS PARK, NEWTOWNBREA, BELFAST, BT8 6AW TEL: 028 9069 9720 FAX: 028 9064 1625 EMAIL: admin@caldwellconsulting.net			