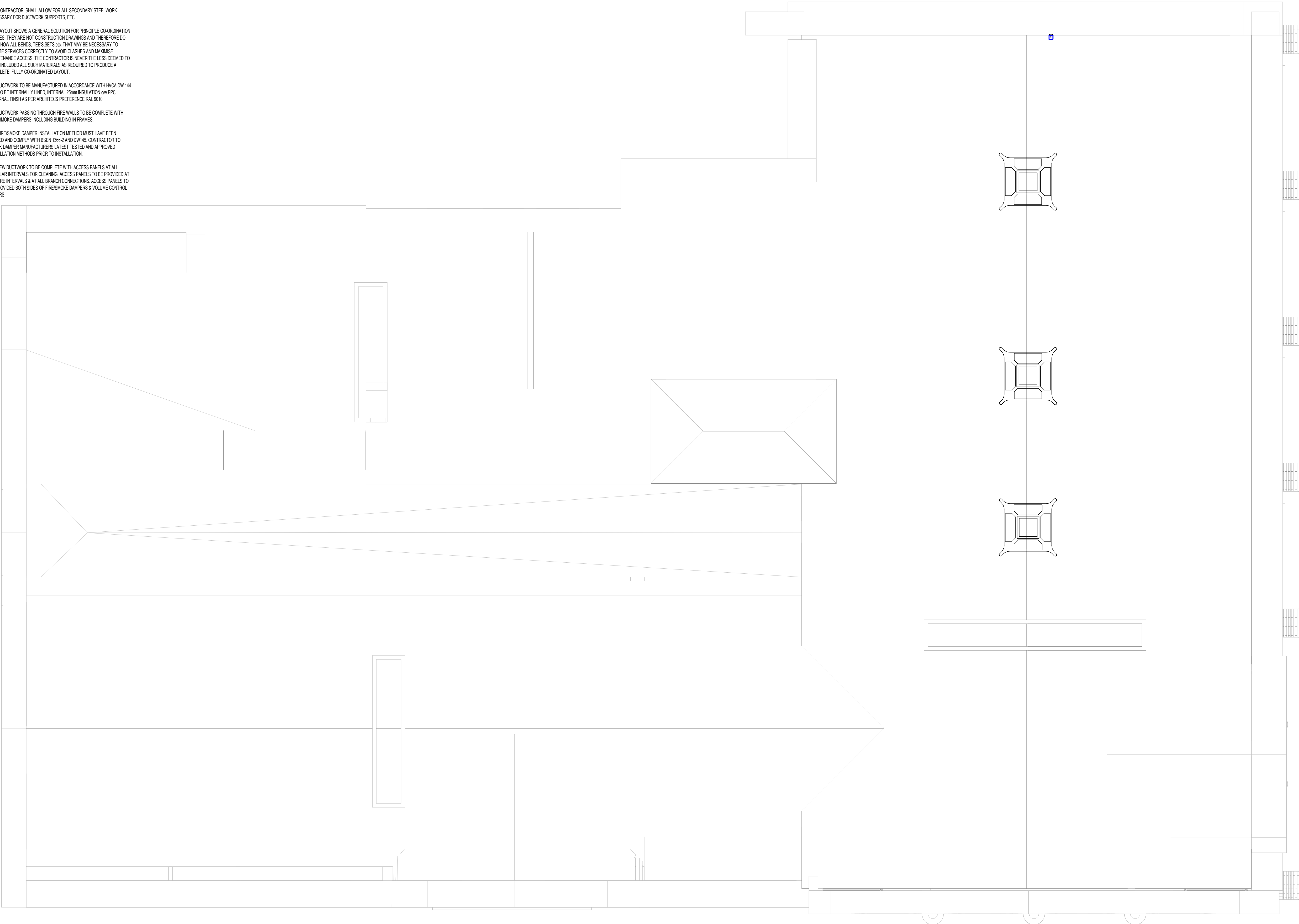


- VENTILATION NOTES:
- THIS DRAWING IS FOR COSTING ONLY. FULLY CO-ORDINATED, DETAILED INSTALLATION DRAWINGS MUST BE PROVIDED BY THE CONTRACTOR.
 - ALL EQUIPMENT AND GRILLES TO BE SUSPENDED BY BUILDING STRUCTURE.
 - ALL SHEET METAL DUCTWORK SHALL BE PROVIDED WITH ACCESS DOORS IN COMPLIANCE WITH RECOMMENDATIONS MADE WITHIN HVAC PUBLICATION 'CLEANLINESS OF VENTILATION TR17'. ALL POSITIONS OF ACCESS DOORS SHALL BE DETAILED ON THE CONTRACTORS WORKING DRAWING.
 - ALL FLEXIBLE CONNECTIONS TO BE MAXIMUM OF 300mm.
 - ALL GRILLES TO BE CO-ORDINATED ON SITE IN CONJUNCTION WITH ALL OTHER SERVICES
 - THE CONTRACTOR SHALL ALLOW FOR ALL SECONDARY STEELWORK NECESSARY FOR DUCTWORK SUPPORTS, ETC.
 - THE LAYOUT SHOWS A GENERAL SOLUTION FOR PRINCIPLE CO-ORDINATION ROUTES. THEY ARE NOT CONSTRUCTION DRAWINGS AND THEREFORE DO NOT SHOW ALL BENDS, TEES, SETS etc. THAT MAY BE NECESSARY TO LOCATE SERVICES CORRECTLY TO AVOID CLASHES AND MAXIMISE MAINTENANCE ACCESS. THE CONTRACTOR IS NEVER THE LESS DEEMED TO HAVE INCLUDED ALL SUCH MATERIALS AS REQUIRED TO PRODUCE A COMPLETE, FULLY CO-ORDINATED LAYOUT.
 - ALL DUCTWORK TO BE MANUFACTURED IN ACCORDANCE WITH HVCA DW 144 AND TO BE INTERNALLY LINED, INTERNAL 25mm INSULATION @w PPC EXTERNAL FINISH AS PER ARCHITECTS PREFERENCE RAL 9010
 - ALL DUCTWORK PASSING THROUGH FIRE WALLS TO BE COMPLETE WITH FRESMOKE DAMPERS INCLUDING BUILDING IN FRAMES.
 - THE FRESMOKE DAMPER INSTALLATION METHOD MUST HAVE BEEN TESTED AND COMPLY WITH BSEN 1366-2 AND DIN145. CONTRACTOR TO CHECK DAMPER MANUFACTURERS LATEST TESTED AND APPROVED INSTALLATION METHODS PRIOR TO INSTALLATION.
 - ALL NEW DUCTWORK TO BE COMPLETE WITH ACCESS PANELS AT ALL REGULAR INTERVALS FOR CLEANING. ACCESS PANELS TO BE PROVIDED AT 3 METRE INTERVALS & AT ALL BRANCH CONNECTIONS. ACCESS PANELS TO BE PROVIDED BOTH SIDES OF FRESMOKE DAMPERS & VOLUME CONTROL DAPERS



NOTES:
THIS IS A DESIGN DRAWING NOT AN INSTALLATION DRAWING.
DIMENSIONS SHOULD NOT BE SCALED.
SITE DIMENSIONS TO BE CHECKED BEFORE PRODUCTION OF CRITICAL MANUFACTURING DRAWINGS.
THE DRAWING IS COPYRIGHT AND NO PART MAY BE REPRODUCED WITHOUT WRITTEN CONSENT.

LEGEND:

MVE	EXTRACT DUCTWORK
MVEA	EXHAUST AIR DUCTWORK
MVFI	FRESH AIR INTAKE DUCTWORK
MVS	SUPPLY DUCTWORK
MVR	RETURN DUCTWORK

DUCT SYSTEM ABBREVIATIONS:

EG	EXTRACT GRILLE
RG	RETURN GRILLE
SD	SUPPLY DIFFUSER
SD	SUPPLY SWIRL DIFFUSER
	BELL MOUTH
ATT	ATTENUATOR
CTA	CROSS TALK ATTENUATOR
FD	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
FCU	FAN COIL UNIT
MVHR	HEAT RECOVERY UNIT
VCD	VOLUME CONTROL DAMPER
MVFI	MECHANICAL VENTILATION FRESH AIR INTAKE
MVEA	MECHANICAL VENTILATION EXTRACT AIR
MVE	MECHANICAL VENTILATION EXTRACT
C	WALL MOUNTED CONTROLLER

Rev C01	STAGE 4 CONTRACT ISSUE				
	By:	JN	Chkd:	JFH	Date: 16.08.24 App: JCF

Status A4	Description STAGE 4A COMPLETED	Stage 4a
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Client

The University of Manchester

Project

UNIVERSITY OF MANCHESTER RUTHERFORD BUILDING

Drawing

MECHANICAL SERVICES
VENTILATION
ROOF LEVEL
GENERAL ARRANGEMENT LAYOUT



CAD21LTD
BUILDING
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& ENERGY
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NEWCASTLE ■ TEESSIDE ■ YORKSHIRE ■ NORTH WEST

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Scale As indicated	Size A1
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Drawing Origins :
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