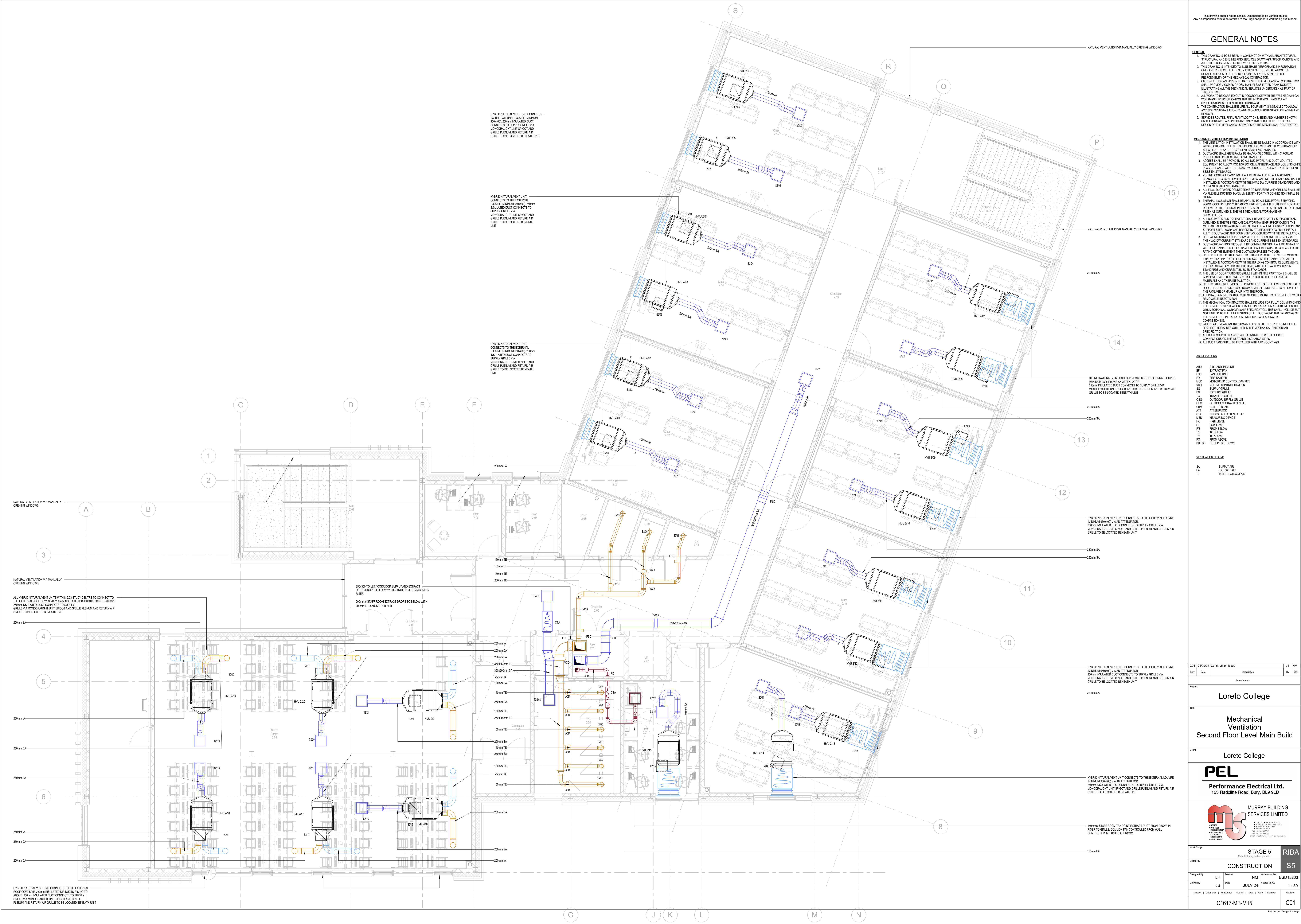




This drawing should not be scaled. Dimensions to be verified on site. Any discrepancies should be referred to the Engineer prior to work being put in hand.

GENERAL NOTES

- GENERAL**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, STRUCTURAL AND ENGINEERING SERVICES DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS ISSUED WITH THIS CONTRACT.
 - THIS DRAWING IS INTENDED TO ILLUSTRATE PERFORMANCE INFORMATION ONLY AND REFLECTS THE DESIGN INTENT OF THE INSTALLATION. THE DETAILED DESIGN OF THE SERVICES INSTALLATION SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
 - ON COMPLETION AND PRIOR TO HANDOVER, THE MECHANICAL CONTRACTOR SHALL PROVIDE 1 COPIES OF OAM MANUALS AS FITTED DRAWINGS ETC. ILLUSTRATING ALL THE MECHANICAL SERVICES UNDERTAKEN AS PART OF THIS CONTRACT.
 - ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE WBS MECHANICAL WORKMANSHIP SPECIFICATION AND THE MECHANICAL PARTICULAR SPECIFICATION ISSUED WITH THIS CONTRACT.
 - THE CONTRACTOR SHALL ENSURE ALL EQUIPMENT IS INSTALLED TO ALLOW ACCESS FOR INSTALLATION, COMMISSIONING, MAINTENANCE, CLEANING AND REMOVAL.
 - SERVICES ROUTES, FINAL PLANT LOCATIONS, SIZES AND NUMBERS SHOWN ON THIS DRAWING ARE INDICATIVE ONLY AND SUBJECT TO THE DETAIL DESIGN OF THE MECHANICAL SERVICES BY THE MECHANICAL CONTRACTOR.

- MECHANICAL VENTILATION INSTALLATION**
- THE VENTILATION INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH WBS MECHANICAL SPECIFICATION, MECHANICAL WORKMANSHIP SPECIFICATION AND THE CURRENT BS EN STANDARDS.
 - DUCTWORK SHALL GENERALLY BE GALVANIZED STEEL WITH CIRCULAR PROFILE AND SPIRAL SEAMS OR RECTANGULAR.
 - ACCESS SHALL BE PROVIDED TO ALL DUCTWORK AND DUCT MOUNTED EQUIPMENT TO ALLOW FOR INSPECTION, MAINTENANCE AND COMMISSIONING IN ACCORDANCE WITH THE HVAC ON CURRENT STANDARDS AND CURRENT BS EN STANDARDS.
 - VOLUME CONTROL DAMPERS SHALL BE INSTALLED TO ALL MAIN RUNS, BRANCHES ETC TO ALLOW FOR SYSTEM BALANCING. THE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE HVAC ON CURRENT STANDARDS AND CURRENT BS EN STANDARDS.
 - ALL FLEXIBLE DUCTWORK CONNECTIONS TO DIFFUSERS AND GRILLES SHALL BE VIA FLEXIBLE DUCTING. MAXIMUM LENGTH FOR THIS CONNECTION SHALL BE 500MM.
 - THERMAL INSULATION SHALL BE APPLIED TO ALL DUCTWORK SERVING WARM COOLED SUPPLY AIR AND WHERE RETURN AIR IS UTILISED FOR HEAT RECOVERY. THE THERMAL INSULATION SHALL BE OF A THICKNESS, TYPE AND FINISH AS OUTLINED IN THE WBS MECHANICAL WORKMANSHIP SPECIFICATION.
 - ALL DUCTWORK AND EQUIPMENT SHALL BE ADEQUATELY SUPPORTED AS OUTLINED IN THE WBS MECHANICAL WORKMANSHIP SPECIFICATION. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR ALL NECESSARY SECONDARY SUPPORT STEEL WORK AND BRACKETS ETC REQUIRED TO FULLY INSTALL ALL DUCTWORK AND EQUIPMENT ASSOCIATED WITH THE INSTALLATION.
 - DUCTWORK INSTALLATIONS SERVING THE KITCHEN ARE TO COMPLY WITH THE HVAC ON CURRENT STANDARDS AND CURRENT BS EN STANDARDS.
 - DUCTWORK PASSING THROUGH FIRE COMPARTMENTS SHALL BE INSTALLED WITH FIRE DAMPER. THE FIRE DAMPER SHALL BE EQUAL TO OR EXCEED THE RATING OF THE ELEMENT THE DUCTWORK PASSES THROUGH.
 - UNLESS SPECIFIED OTHERWISE FIRE DAMPERS SHALL BE OF THE MORTICE TYPE WITH A LINK TO THE FIRE ALARM SYSTEM. THE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE BUILDING CONTROL REQUIREMENTS, THE FIRE STRATEGY FOR THE BUILDING, WITH THE HVAC ON CURRENT STANDARDS AND CURRENT BS EN STANDARDS.
 - THE USE OF DOOR TRANSFER GRILLES WITHIN FIRE PARTITIONS SHALL BE CONFIRMED WITH BUILDING CONTROL PRIOR TO THE ORDERING OF MATERIALS AND THEIR INSTALLATION.
 - UNLESS OTHERWISE INDICATED IN WORK FIRE RATED ELEMENTS GENERALLY DOORS TO TOILET AND STORE ROOM SHALL BE UNDERCUT TO ALLOW FOR THE PASSAGE OF MAKE-UP AIR INTO THE ROOM.
 - ALL INTAKE AIRLETS AND EXHAUST OUTLETS ARE TO BE COMPLETE WITH A REMOVABLE INSECT MESH.
 - THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR FULLY COMMISSIONING THE COMPLETE VENTILATION SERVICES INSTALLATION AS OUTLINED IN THE WBS MECHANICAL WORKMANSHIP SPECIFICATION. THIS SHALL INCLUDE BUT NOT LIMITED TO THE LEAK TESTING OF ALL DUCTWORK AND BALANCING OF THE COMPLETED INSTALLATION, INCLUDING A SEASONAL RE-COMMISSIONING.
 - WHERE ATTENUATORS ARE SHOWN THESE SHALL BE SIZED TO MEET THE REQUIRED NR VALUES OUTLINED IN THE MECHANICAL PARTICULAR SPECIFICATION.
 - ALL DUCT MOUNTED FANS SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS ON THE INLET AND DISCHARGE SIDES.
 - ALL DUCT FANS SHALL BE INSTALLED WITH AAV MOUNTINGS.

- ABBREVIATIONS**
- AHU AIR HANDLING UNIT
EF EXTRACT FAN
FCU FAN COIL UNIT
FD FIRE DAMPER
MCD MOTORIZED CONTROL DAMPER
VCD VOLUME CONTROL DAMPER
SG SUPPLY GRILLE
EG EXTRACT GRILLE
TG TRANSFER GRILLE
OSG OUTDOOR SUPPLY GRILLE
OEG OUTDOOR EXTRACT GRILLE
CSM CHILLED BEAM
ATT ATTENUATOR
CTA CROSS TALK ATTENUATOR
MSD MEASURING DEVICE
HL HIGH LEVEL
LL LOW LEVEL
FB FROM BELOW
TB TO BELOW
TA TO ABOVE
FA FROM ABOVE
SU/SD SET UP / SET DOWN

- VENTILATION LEGEND**
- SA SUPPLY AIR
EA EXTRACT AIR
TE TOILET EXTRACT AIR

C01 24/06/24 Construction Issue

Rev Date Description By Ck

Amendments

Project

Loreto College

Title

Mechanical Ventilation

Second Floor Level Main Build

Client

Loreto College

PEL

Performance Electrical Ltd.

123 Radcliffe Road, Bury, BL9 9LD

MURRAY BUILDING SERVICES LIMITED

Work Stage

STAGE 5

Manufacturing and construction

Subsidiary

CONSTRUCTION

Designed By

LH Director

NM Waterman Ref

Drawn By

JB JULY 24

Scale @ A4

1 : 50

Project | Originator | Functional | Spatial | System | Type | Risk | Number

C1617-MB-M15

C01

Rev A1 A1 Design drawings