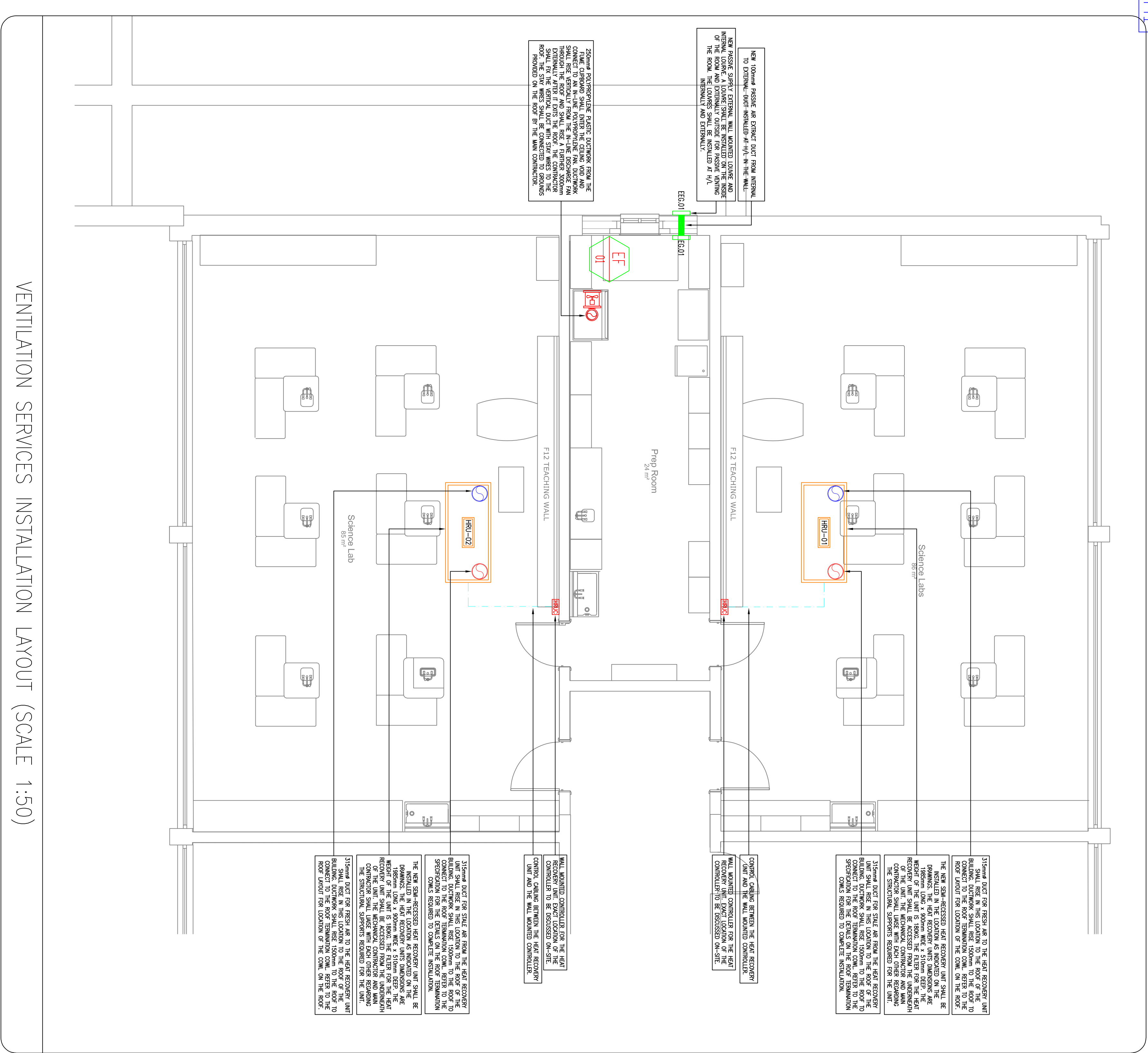




VENTILATION SERVICES INSTALLATION LAYOUT (SCALE 1:50)

VENTILATION LEGENDS AND SYMBOLS

- CONTROL WIRING BETWEEN DEVICES
- SEAM-RECESSED HEAT RECOVERY UNIT INSTALLED IN THE SCIENCE ROOM (♦ DENOTES NUMBER OF THE HEAT RECOVERY UNIT)
- POLYPROPYLENE IN-LINE FAN FOR FLOVE COFFBOARD
- EXTRACT FAN (♦ DENOTES NUMBER)
- WALL MOUNTED CONTROLLER FOR THE HEAT RECOVERY UNIT.
- H/L HIGH LEVEL
- L/L LOW LEVEL
- T.B. TO BELOW
- F.B. FROM BELOW
- T.A. TO ABOVE

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.
- THE MECHANICAL CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL THE NECESSARY INFORMATION TO ALLOW THE MAIN CONTRACTOR CO-ORDINATE ALL SERVICES.
- THE MECHANICAL CONTRACTOR SHALL ALLOW FOR CO-ORDINATING THE MECHANICAL INSTALLATION WITH THE ELECTRICAL CONTRACTOR. THE EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXPENSE NOT BEING COVERED WILL NOT BE ACCEPTED BY THE ENGINEER.
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE.
- THE MECHANICAL CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES INDICATED ON THIS DRAWING.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE PENAL ROUTES FOR PENWORK, MECHANICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.
- NEW MAINS RUN OF MECHANICAL PENWORK AND SERVICES SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATING ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR THE MECHANICAL SERVICES ON SITE THEN THAT WILL BE ACCEPTED.
- FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PENWORK, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- ALL SERVICES THROUGH FIRE BARRIERS SHALL BE STOPPED EACH SIDE OF THE BARRIER. THE MAIN CONTRACTOR SHALL ALLOW FOR FIRE PROTECTING THE OPENINGS AFTER SERVICES IS INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

VENTILATION SERVICES NOTES:

- THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL HEAT RECOVERY UNITS, DUCTWORK, SUPPORTS AND TERMINATIONS THROUGHOUT THE BUILDING FOR THE SUCCESSFUL INSTALLATION OF THE VENTILATION SYSTEM INSTALLATION AS INDICATED ON THE DRAWINGS.
- FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PENWORK ROUTES, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
- REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE VENTILATION WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
- FINAL LOCATIONS OF ALL GRATES TO BE CO-ORDINATED ON SITE WITH LIGHTING LAYOUTS.
- ALL DUCTWORK INDICATED ON THE DRAWINGS (STALE & FRESH AIR) SHALL BE INSTALLED IN GALVANIZED SHEET METAL.
- ALL BENDS & CHANGES IN DIRECTION TO BE AS PER DW 144.
- ALL DUCTING AND ASSOCIATED VENTILATION WORKS SHALL BE CARVED OUT BY THE MECHANICAL CONTRACTOR.
- ALL FIRE DAMPERS SHALL BE INSTALLED WHEREVER A DUCT PASSES THROUGH A FIRE WALL AND SHALL BE MOUNTED WITHIN THE BUILDING FABRIC AND SECURELY ATTACHED TO IT. FIRE DAMPERS SHALL BE OF MULTI-LEAF SHUTTER PATTERN WITH A RESETTABLE LINK MECHANISM AND VISUAL POSITION INDICATOR. THEY SHALL BE A MINIMUM OF 100mm FROM THE BATTING.
- SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS TO FIRE DAMPERS.
- THE VENTILATION SYSTEM SHALL BE COMMISSIONED AND BALANCED AS SPECIFIED IN THE TENDER DOCUMENTS.
- THE CONTRACTOR SHALL ALLOW FOR THE COMMISSIONING AND BALANCING OF THE VENTILATION SYSTEMS IN THE BUILDING ONCE ALL TRADES HAVE BEEN COMPLETED AND INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR INSULATING ALL THE FOLLOWING DUCTWORK TO BE INSTALLED IN THE ATTIC SPACE (REFER TO SPECIFICATION FOR DETAILS ON INSULATION):
 - ALL FRESH AIR DUCTWORK FROM THE HEAT RECOVERY UNIT FROM EXTERNAL.
 - ALL STALE AIR DUCTWORK FROM THE HEAT RECOVERY UNIT TO EXTERNAL.
- THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF A HEAT RECOVERY UNITS FOR THE BUILDING. THE HEAT RECOVERY UNITS SHALL BE SEAM-RECESSED IN THE ROOF CESSPORE OF THE BUILDING. BOTH STALE AND FRESH AIR DUCTWORK SHALL BE INSTALLED THROUGHOUT THE WALL AT HIGH LEVEL OR THROUGH THE ROOF OF THE BUILDING. SEE DRAWING FOR LOCATION OF EACH UNIT.
- SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS FOR CLEANING.
- THE CONTRACTOR SHALL ALLOW FOR THE INSTALLATION OF BACK DRAFT DAMPERS ON THE FRESH AND STALE AIR DUCTWORK TO EACH OF THE UNITS.
- THE HEAT RECOVERY UNIT IN EACH SCIENCE ROOM SHALL BE LINKED TO THE GAS PRESSURE PROTECT SYSTEM TO ALLOW THE SYSTEM TO SHUT OFF ONCE THE GAS IS DETECTED IN THE ROOM. THE MECHANICAL CONTRACTOR SHALL LINK WITH THE ELECTRICAL CONTRACTOR IN ORDER FOR THE SYSTEM TO BE LINKED TOGETHER.

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Job No: 26-027
Drawn by: J.M.
Scale: 1:50
Date: 2024

Job Title: STANHOPE STREET SECONDARY SCHOOL, MANOR STREET, STONEBATTER, DUBLIN 7, D07 YP03.

Architect: NEW VENTILATION SERVICES TO BE INSTALLED IN THE SCIENCE ROOMS AND PREP ROOM.

Rev: T3