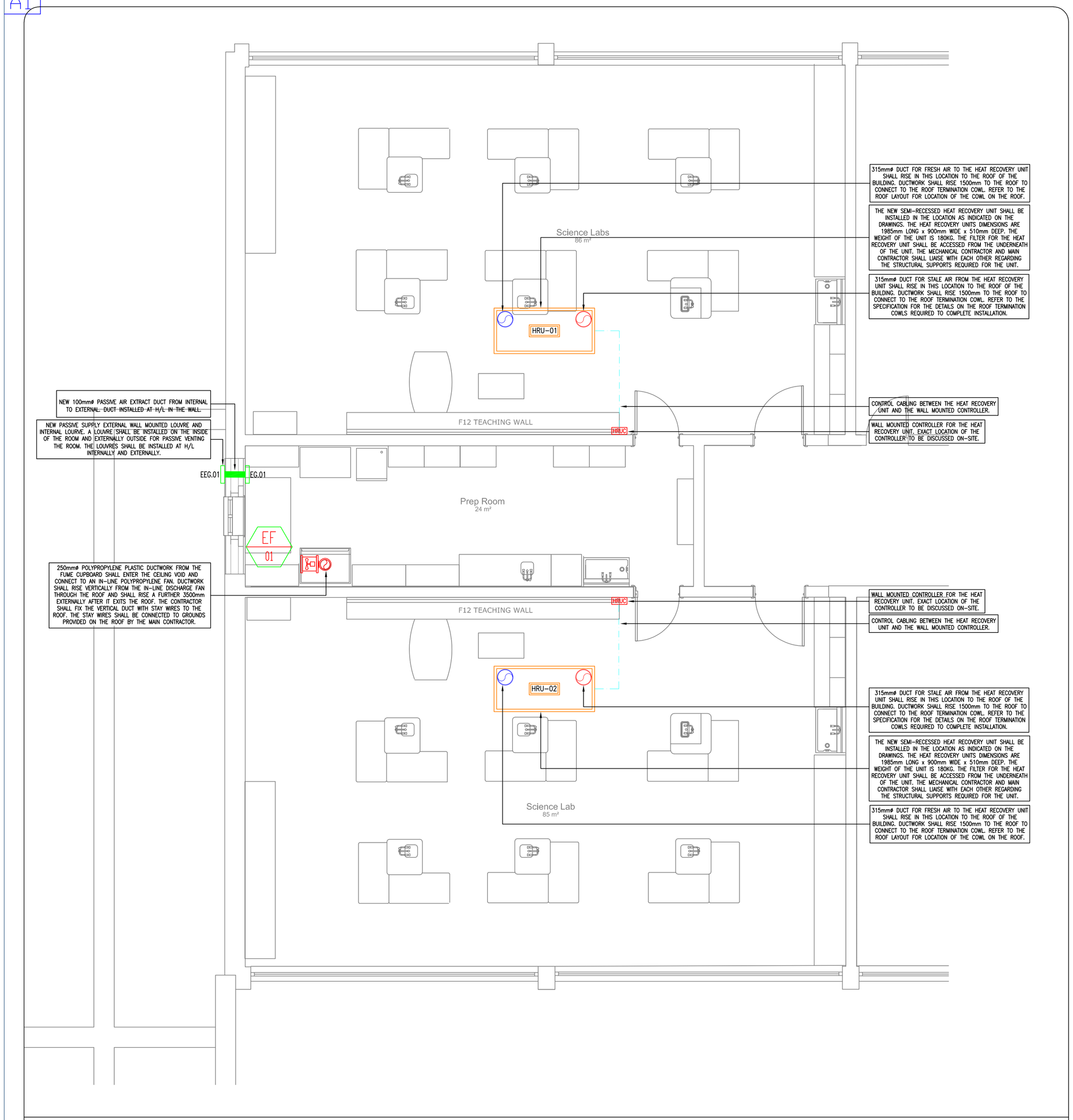
A1



VENTILATION SERVICES INSTALLATION LAYOUT (SCALE 1:50)

VENTILATION LEGENDS AND SYMBOLS

	CONTROL WIRING BETWEEN DEVICES
HRU-*	SEMI-RECESSED HEAT RECOVERY UNIT INSTALLED IN THE SCIENCE ROOM (* DENOTES NUMBER OF THE HEAT RECOVERY UNIT)
	POLYPROPYLENE IN-LINE FAN FOR FUME CUPBOARD
EF *	EXTRACT FAN (* DENOTES NUMBER)
HRUC	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:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.

2. 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.

3. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR CO-ORDINATING THE MECHANICAL INSTALLATION WITH THE ELECTRICAL CONTRACTOR ON SITE. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.

4. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE.

5. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES INDICATED ON THIS DRAWING.

6. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR PIPEWORK, MECHANICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.

7. NEW MAINS RUN OF MECHANICAL PIPEWORK AND SERVICES SHALL BE INSTALLED IN THE AREAS AS INDICATED. THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR THE MECHANICAL SERVICES ON SITE THEN THAT WILL BE ACCEPTABLE.

8. FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.

9. ALL SERVICES THROUGH FIRE BARRIERS SHALL BE SLEEVED EACH SIDE OF THE BARRIER. THE MAIN CONTRACTOR SHALL ALLOW FOR FIRE PROOFING THE OPES AFTER SERVICES IS INSTALLED.

10. 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:

11. THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL HEAT RECOVERY UNITS, DUCTWORK, SUPPORTS, INSULATION ETC. THROUGHOUT THE BUILDING FOR THE SUCCESSFUL INSTALLATION OF THE VENTILATION SYSTEM INSTALLATION AS INDICATED ON THE DRAWINGS.

12. FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWORK ROUTES, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.

13. REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.

14. THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE VENTILATION WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

15. FINAL LOCATIONS OF ALL GRILLES TO BE CO-ORDINATED ON SITE WITH LIGHTING LAYOUTS.

16. ALL DUCTWORK INDICATED ON THE DRAWINGS (STALE & FRESH AIR) SHALL BE INSTALLED IN GALVANIZED SHEET METAL.

17. ALL BENDS & CHANGES IN DIRECTION TO BE AS PER DW 144.

18. ALL DUCTING AND ASSOCIATED VENTILATION WORKS SHALL BE CARRIED OUT BY THE MECHANICAL CONTRACTOR.

19. ALL DUCTWORK LOCATED AT HIGH LEVEL WITHIN ATTIC SPACE.

20. 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 60MINS FIRE RATING.

21. SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS TO FIRE DAMPERS.

22. THE VENTILATION SYSTEM SHALL BE COMMISSIONED AND BALANCED AS SPECIFIED IN THE TENDER DOCUMENTS.

23. THE CONTRACTOR SHALL ALLOW FOR THE COMMISSIONING AND BALANCING OF THE VENTILATION SYSTEMS IN THE BUILDING ONCE ALL ITEMS HAVE BEEN COMPLETED AND INSTALLED.

24. 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 SUPPLY AIR DUCTWORK TO THE HEAT RECOVERY UNIT FROM EXTERNAL.
- ALL STALE AIR DUCTWORK FROM THE HEAT RECOVERY UNIT TO EXTERNAL.

25. 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 SEMI-RECESSED IN THE EACH CLASSROOM OF THE BUILDING. BOTH STALE AND FRESH AIR DUCTWORK SHALL POP THROUGH TO EXTERNAL THROUGHOUT THE WALL AT HIGH LEVEL OR THROUGH THE ROOF OF THE BUILDING. SEE DRAWING FOR LOCATION OF EACH UNIT.

26. SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS FOR CLEANING.

27. THE CONTRACTOR SHALL ALLOW FOR THE INSTALLATION OF BACK DRAFT DAMPERS ON THE FRESH AND STALE AIR DUCTWORK TO EACH OF THE UNITS.

28. THE HEAT RECOVERY UNIT IN EACH SCIENCE ROOM SHALL BE LINKED TO THE GAS PRESSURE PROVING SYSTEM TO ALLOW THE SYSTEM TO PURGE ONCE THE GAS IS ACTIVATED IN THE ROOM. THE MECHANICAL CONTRACTOR SHALL LIAISE WITH THE ELECTRICAL CONTRACTOR IN ORDER FOR THE SYSTEM TO BE LINKED TOGETHER.

REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:
T2	20.07.26	J. MARTIN	G. BENNDORF
T1	18.06.26	J. MARTIN	G. BENNDORF

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Drawing Status
TENDER

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

Drawing Title
NEW VENTILATION SERVICES TO BE INSTALLED IN THE SCIENCE ROOMS AND PREP ROOM.

Architect
MCLA
McLoughlin Architecture
Unit 4B, Elm House,
Millenium Park,
Naas, Co. Kildare

Drawing No:
57(M001)

Job No.	Drawn by:	Scale:	Rev.
26-027	J.M	1:50 on A1	T2