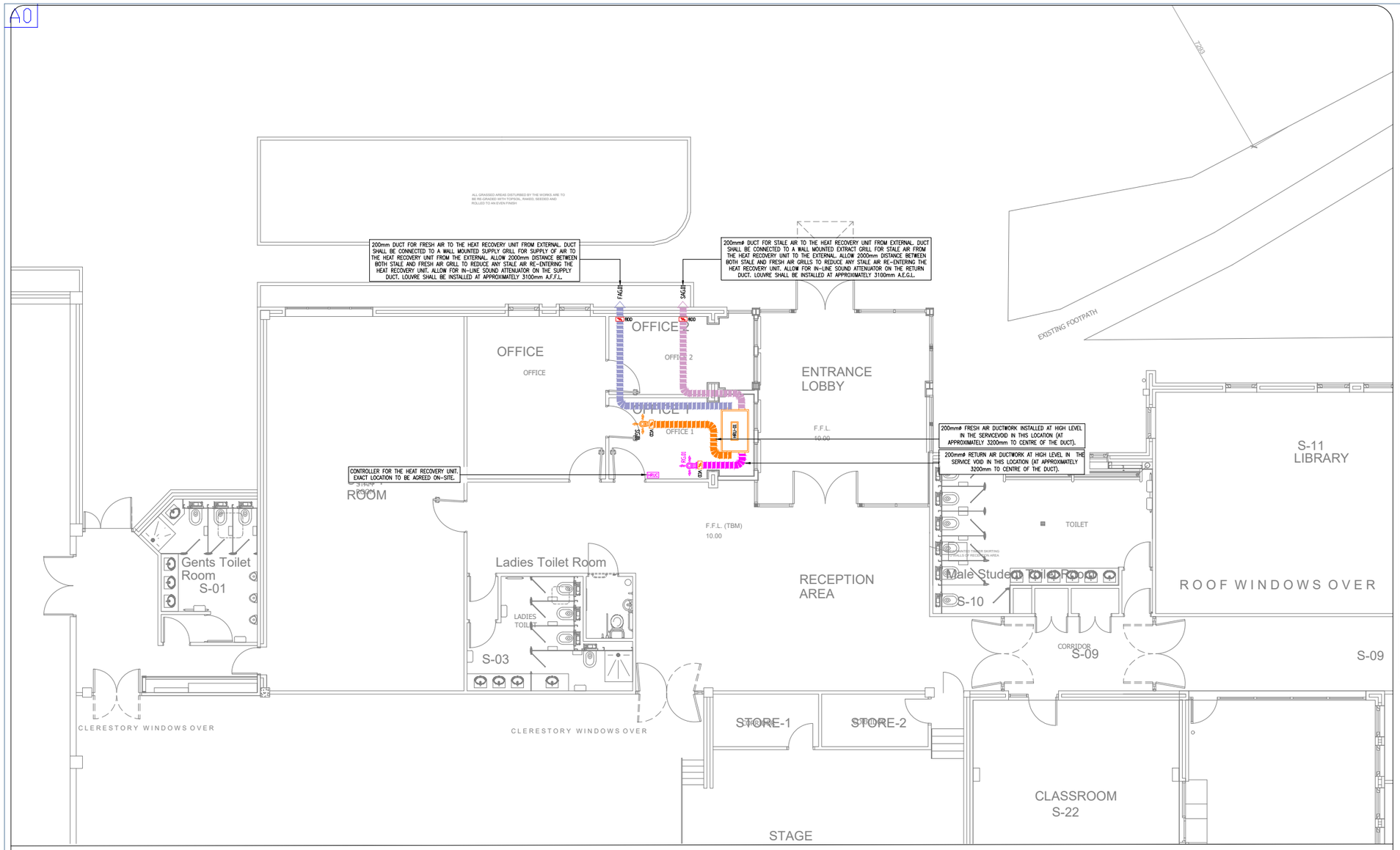
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VENTILATION SERVICES LAYOUT ON THE GROUND FLOOR IN THE EXTENSION (SCALE 1:75)

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.
2. THE 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-ORDINTATING 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 CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES INDICATED ON THIS DRAWING.
6. THE 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 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.
11. SEE THE KEY PLAN ON DRAWING FOR THE AREAS IN THE BUILDING WHERE WORKS ARE TO BE CARRIED OUT.

VENTILATION SERVICES NOTES:

12. THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL FANS, DUCTWORK, SUPPORTS, INSULATION ETC. THROUGHOUT THE BUILDING FOR THE SUCCESSFUL INSTALLATION OF THE VENTILATION SYSTEM INSTALLATION AS INDICATED ON THE DRAWINGS.
13. FINAL LOCATION OF ALL ITEMS OF PLANT/EQUIPMENT/PIPEWWORK ROUTES, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYERS REPRESENTATIVE AND THE CLIENT.
14. REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.
15. THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING ALL THE VENTILATION WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
16. FINAL LOCATIONS OF ALL GRILLES TO BE CO-ORDINATED ON SITE WITH LIGHTING LAYOUTS.
17. ALL GRILLES SHALL HAVE LOCAL VOLUME CONTROL BALANCING DAMPERS. ALL VCD'S SHALL BE BLADE TYPE AND SHALL HAVE A LOCKING QUADRANT C/W WING NUT LOCKING DEVICE.
18. ALL BENDS & CHANGES IN DIRECTION TO BE AS PER DW 144.
19. ALL DUCTING AND ASSOCIATED VENTILATION WORKS SHALL BE CARRIED OUT BY THE MECHANICAL CONTRACTOR.
20. ALL DUCTWORK LOCATED AT HIGH LEVEL WITHIN CEILING VOID.
21. 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.
22. SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS TO FIRE DAMPERS.
23. 26. THE VENTILATION SYSTEM SHALL BE COMMISSIONED AND BALANCED AS SPECIFIED IN THE TENDER DOCUMENTS.
24. 27. THE CONTRACTOR SHALL ALLOW FOR THE COMMISSIONING AND BALANCING OF THE VENTILATION SYSTEMS IN THE BUILDING ONCE ALL ITEMS HAVE BEEN COMPLETED AND INSTALLED.
25. THE CONTRACTOR SHALL ALLOW FOR INSULATING ALL THE FOLLOWING DUCTWORK TO BE INSTALLED ABOVE THE CEILING (REFER TO SPECIFICATION FOR DETAILS ON INSULATION):
    26. ALL FRESH SUPPLY AIR DUCTWORK TO THE HEAT RECOVERY UNIT FROM EXTERNAL.
    27. ALL STALE AIR DUCTWORK FROM THE HEAT RECOVERY UNIT TO EXTERNAL.
    28. ALL TREATED SUPPLY AIR DUCTWORK FROM THE HEAT RECOVERY UNIT TO THE BUILDING.
    29. ALL RETURN AIR DUCTWORK TO THE HEAT RECOVERY UNIT FROM THE BUILDING.
30. THE CONTRACTOR SHALL ALLOW FOR THE SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF A HEAT RECOVERY UNIT FOR THE BUILDING. THE HEAT RECOVERY UNIT SHALL BE LOCATED IN THE CEILING VOID OF THE BUILDING. BOTH STALE AND FRESH AIR DUCTWORK SHALL POP THROUGH TO EXTERNAL AT HIGH LEVEL. SEE DRAWING FOR LOCATION OF UNIT.
31. SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS FOR CLEANING.
32. THERE IS A NUMBER OF HEAT RECOVERY UNITS TO BE INSTALLED THROUGHOUT THE BUILDING. THE HEAT RECOVERY UNITS WILL BE LOCATED ABOVE THE CEILING VOID AND WITHIN CONCRETE VOID SPACES THROUGHOUT THE BUILDING. THE HEAT RECOVERY UNITS WILL HAVE DIFFERENT ACCESS TO THE FILTERS DUE TO THE LOCATIONS OF THE UNIT. SEE BELOW FOR REFERENCE TO THE ACCESS TO THE UNITS:
    - 1. HEAT RECOVERY UNIT 1 WILL HAVE ACCESS TO THE FILTERS AT THE BOTTOM OF THE UNIT.

VENTILATION LEGENDS AND SYMBOLS

- RETURN AIR DUCTWORK TO HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.
- SUPPLY AIR DUCTWORK FROM HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.
- FRESH AIR DUCTWORK TO HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.
- STALE AIR DUCTWORK FROM HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.
- FAG.* — EXTERNAL WALL MOUNTED LOUVRE FOR FRESH AIR SUPPLY TO THE HEAT RECOVERY UNIT (* DENOTES NUMBER OF LOUVRE)
- SAG.* — EXTERNAL WALL MOUNTED LOUVRE FOR STALE EXTRACT AIR FROM THE HEAT RECOVERY UNIT (* DENOTES NUMBER OF LOUVRE)
- HRU-* — HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID OVER THE ROOM (* DENOTES NUMBER OF THE HEAT RECOVERY UNIT)
- VCD — VOLUME CONTROL BALANCING DAMPER (VCD)
- BDD — BACK DRAFT DAMPER
- 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

REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:
T1	13.10.26	E.OLAYA	G. BENNDORF

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