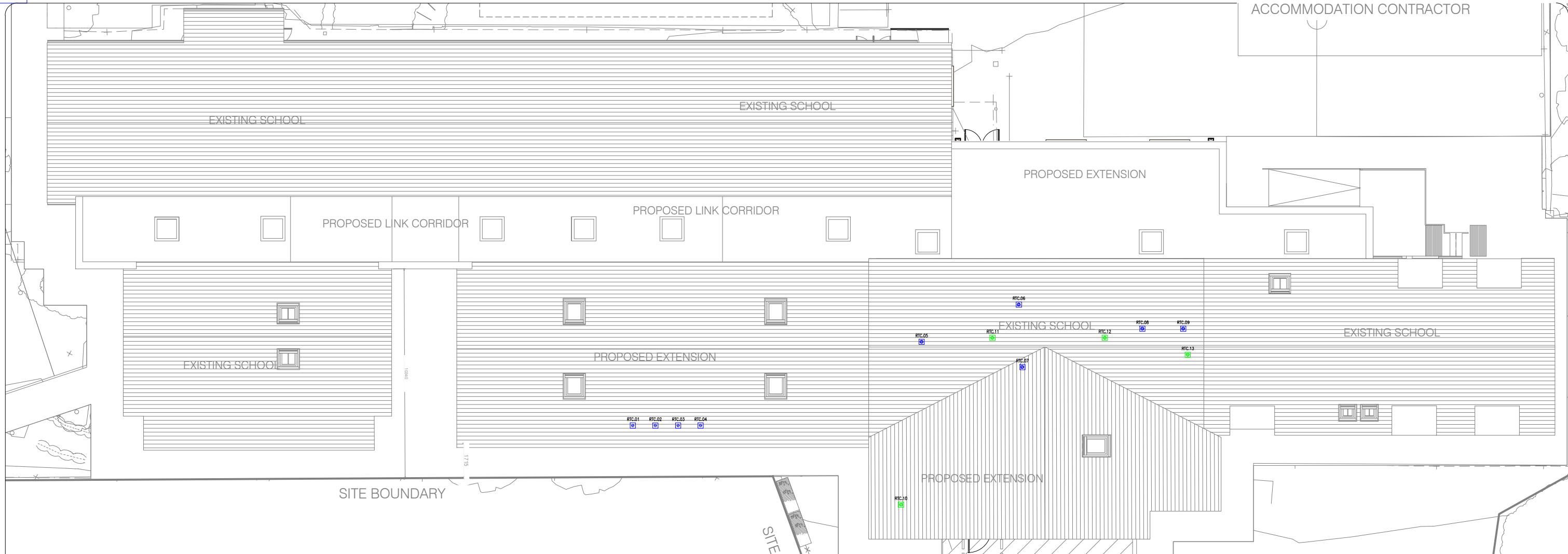




VENTILATION SERVICES LAYOUT (SCALE 1:100)

VENTILATION LEGENDS AND SYMBOLS

	EXTRACT AIR DUCTWORK FOR TOILETS AND GENERAL AREAS INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.		EXTRACT FAN (* DENOTES NUMBER)
	PASSIVE AIR DUCTWORK FOR STORES INSTALLED IN THE ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.		HEAT RECOVERY UNIT (* DENOTES NUMBER)
	FRESH AIR DUCTWORK TO HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.		VOLUME CONTROL BALANCING DAMPER (VCD)
	STALE AIR DUCTWORK FROM HEAT RECOVERY UNIT INSTALLED IN THE CEILING VOID/ATTIC SPACE. SEE DRAWING FOR SPECIFIC SIZE.	H/L	HIGH LEVEL
	IN-LINE MOUNTED EXTRACT FAN	L/L	LOW LEVEL
EG.* 	RECESSED EXTRACT AIR GRILL. GRILL RECESSED INTO THE CEILING FROM THE ATTIC SPACE. (* DENOTES NUMBER OF GRILL)	T.B.	TO BELOW
PG.* 	RECESSED PASSIVE SUPPLY AIR GRILL. GRILL RECESSED INTO THE CEILING FROM THE ATTIC SPACE. (* DENOTES NUMBER OF GRILL)	F.B.	FROM BELOW
EPG.* 	INTERNAL WALL MOUNTED PASSIVE LOUVER (* DENOTES NUMBER OF LOUVER)	T.A.	TO ABOVE
EEG.* 	EXTERNAL WALL MOUNTED EXTRACT LOUVER (* DENOTES NUMBER OF LOUVER)		CONTROL WIRING BETWEEN DEVICES
EPG.* 	EXTERNAL WALL MOUNTED PASSIVE LOUVER (* DENOTES NUMBER OF LOUVER)	HRU.* 	NEW WALL MOUNTED HEAT RECOVERY UNIT WHICH SHALL BE INSTALLED INTERNALLY IN EACH SET ROOM OF THE BUILDING AS INDICATED.
	CEILING MOUNTED REMOTE PIR SENSOR FOR CONTROL OF EXTRACT FAN FOR THE TOILETS	EHR.* 	EXTERNAL WALL MOUNTED HEAT RECOVERY LOUVER (* DENOTES NUMBER OF LOUVER)
RTC.* 	ROOF TERMINATION COWL (* DENOTES NUMBER OF COWL).	RTC.* 	ROOF TERMINATION COWL (* DENOTES NUMBER OF COWL)
	GENERAL ACCESS PANEL IN THE DUCTWORK FOR CLEANING PURPOSES.		SPEED CONTROLLER
HRU.* 	NEW WALL MOUNTED HEAT RECOVERY UNIT WHICH SHALL BE INSTALLED INTERNALLY IN THE OFFICE OF THE BUILDING AS INDICATED.	FD.* 	NEW WALL MOUNTED FIRE DAMPER LOCATED IN SOME FIRE WALLS (* DENOTES NUMBER OF DAMPER)
HRU.* 	FLOOR STANDING HEAT RECOVERY UNIT INSTALLED IN EACH CLASSROOM IN THE BUILDING (* DENOTES NUMBER OF THE HEAT RECOVERY UNIT)		
	GENERAL ACCESS PANEL IN THE DUCTWORK FOR CLEANING PURPOSES.		
	WALL MOUNTED CONTROLLER FOR THE HEAT RECOVERY UNIT.		
BBD 	BACK DRAFT MOTORIZED DAMPER		

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 ALL OTHER TRADES TO CO-ORDINATE WITH 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 CONTRACTOR SHALL ALLOW FOR THE SUPPLY AND INSTALLATION OF ALL MECHANICAL SERVICES, INDICATED ON THIS DRAWING.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUFFICIENT FINAL ROUTES FOR PIPEWORK, MECHANICAL SERVICES, ETC. AS INDICATED ON THE DRAWINGS.
7. NEW MAIN 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 PLUMBING/EQUIPMENT/PIPEWORK, ETC. SHALL BE AGREED ON SITE WITH THE EMPLOYER REPRESENTATIVE.
9. ALL SERVICES THROUGH FIRE BARRIERS SHALL BE SLEAVED 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 FANS, DUCTWORK, SUPPLERS, 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 LOCATION 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 LOCATIONS.
16. ALL GRILLES SHALL HAVE LOCAL VOLUME CONTROL BLOWING DAMPERS. ALL VCO'S SHALL BE BRASS PLATE TYPE AND SHALL HAVE A LOOKING QUANTITY C/W WING NUT LOCKING DEVICE.
17. ALL DUCTWORK INDICATED ON THE DRAWINGS (TOILET EXTRACT & PASSIVE AIR SUPPLY) SHALL BE INSTALLED IN GALVANIZED SHEET METAL.
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. SEE SPECIFICATIONS FOR THE CONTROLLING THE EXTRACT FAN. THE EXTRACT FAN SHALL BE CONTROLLED VIA PIR SENSOR WITH THE TOILETS.
21. ALL DUCTWORK LOCATED AT HIGH LEVEL WITH CEILING VELD.
22. 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 150-DEGREE SHUTTER PANEL WITH A RESTRICTABLE LINK MECHANISM AND VISUAL POSITION INDICATOR. THEY SHALL BE A MINIMUM OF 60MM'S FIRE RATING.
23. SUITABLE ACCESS PANELS WITH BOLT-IN COVERS SHALL BE PROVIDED IN THE DUCTWORK TO PROVIDE ACCESS TO FIRE DAMPERS.
24. THE VENTILATION SYSTEM SHALL BE COMMISSIONED AND BALANCED AS SPECIFIED IN THE TENDER DOCUMENTS.
25. THE CONTRACTOR SHALL ALLOW FOR THE COMMISSIONING AND BALANCING OF THE VENTILATION SYSTEMS IN THE BUILDING ONCE ALL ITEMS HAVE BEEN COMPLETED AND INSTALLED.

T1	21.07.26	R. WHYTE		G. BENNDORF	
REV	DATE	PREPARED BY/PROJECT ENGINEER		QUALITY CHECK BY:	

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VENTILATION SERVICES
LAYOUT.

Architect MCGLOUGHLIN ARCHITECTURE

Unit 4B, Elm House
Millennium Park, Naas
Co.Kildare, Ireland

Scale: 1:75 @ A1

1.73 GAT

Drawn By:

ROBERT WHITE

Job No.

22-053

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57(M002)

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