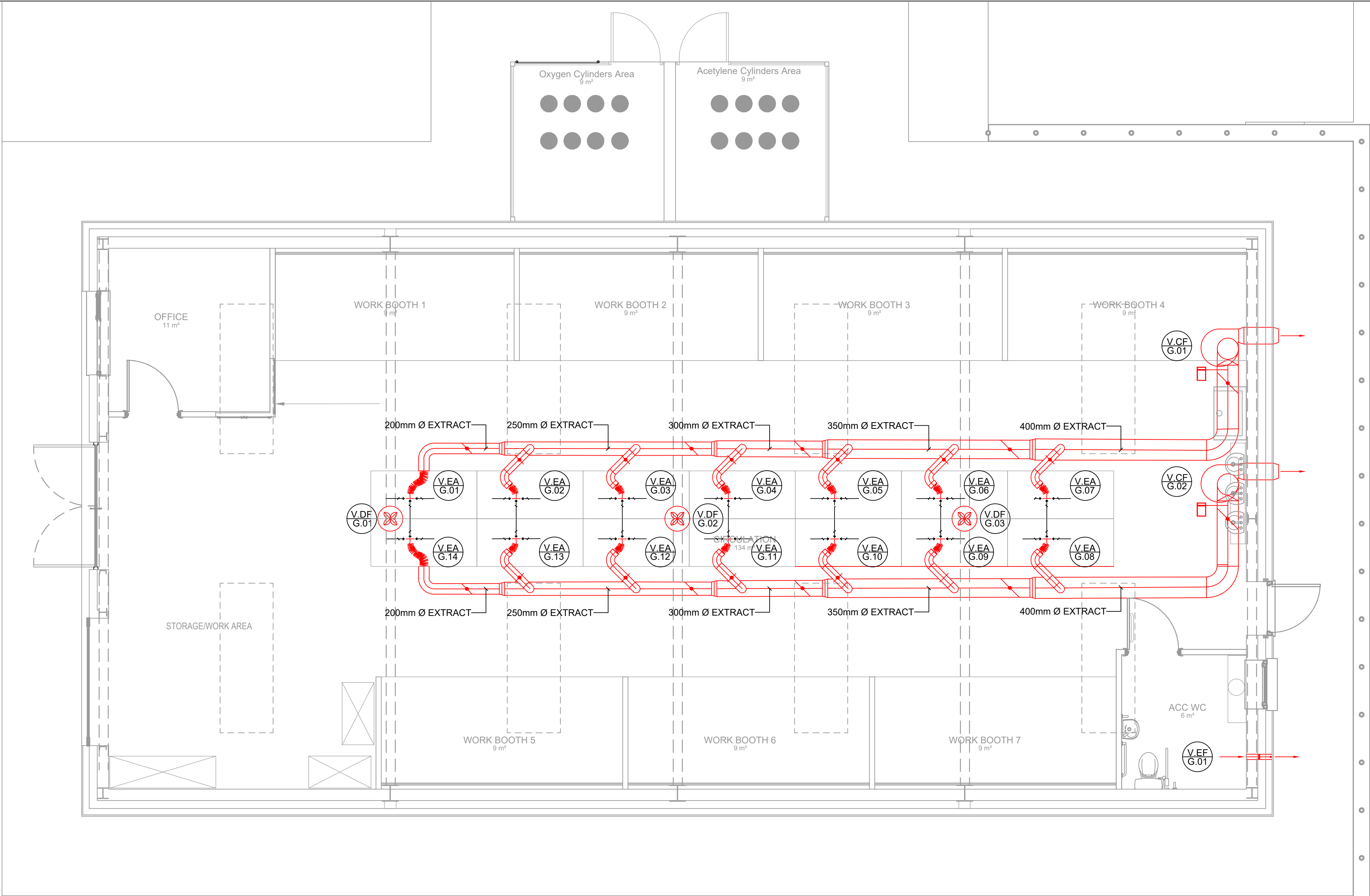




A VENTILATION SERVICES
M002 SCALE 1:50

LEGEND:

DESTRATIFICATION FAN

EXTRACTION ARM

DAMPERS

SPIRAL WOUND DUCTWORK

FAN INVERTER

CONCENTRIC REDUCER

DUCT SADDLE

FLEXIBLE CONNECTOR

CENTRIFUGAL FAN

WALL-MOUNTED EXTRACT FAN

DIRECTION OF AIRFLOW

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PARTICULAR SPECIFICATIONS.
- THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ALL SERVICES AND WORKS REQUIRED FOR THE PROJECT.
- EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE. ALL DIMENSIONS IN mm, UNLESS STATED OTHERWISE.
- EXACT LOCATIONS OF ALL SERVICES TO BE AGREED ON SITE. FINAL LOCATIONS OF ALL SERVICES TO BE CO-ORDINATED ON SITE WITH EXISTING LOOSE AND FIXED FURNITURE LAYOUTS IN THE ROOM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORKS AND BUILDERS WORKS AS IDENTIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- REFURBISHMENT WORKS ARE ONLY TO BE CARRIED OUT TO THE EXISTING FIRE ALARM INSTALLATION.
- THE CONTRACTOR SHALL ALLOW FOR CONNECTING THE NEW ELECTRICAL SERVICES TO THE EXISTING SYSTEMS IN THE BUILDING AS INDICATED.
- REFER TO ALL OTHER DRAWINGS FOR SPECIFIC LAYOUT OF REQUIRED SERVICES THROUGHOUT THE BUILDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY SUITABLE FINAL ROUTES FOR ALL CONTAINMENT THROUGHOUT THE BUILDING. NEW MAINS RUN OF ELECTRICAL CONTAINMENT SHALL BE INSTALLED IN THE AREAS AS INDICATED ON THE DRAWINGS BUT THIS IS INDICATIVE ONLY AND IF THE CONTRACTOR FINDS A MORE CONVENIENT ROUTE FOR ELECTRICAL CONTAINMENT IN THE BUILDING ON SITE THEN THAT WILL BE ACCEPTABLE.
- THE MAJORITY OF MAINS RUNS OF NEW ELECTRICAL CONTAINMENT IN THE BUILDING SHALL BE INSTALLED BELOW THE CEILING UNLESS INDICATED ON THE DRAWING.

VENTILATION SERVICES NOTES:

- PROVIDE COMPLETE LOCAL EXHAUST VENTILATION SYSTEM BY SPECIALIST CONTRACTOR. LEV SYSTEM SHALL COMPLY WITH HSG258 AND APPLICABLE HSA REQUIREMENTS.
- EXTRACTION ARM TO BE ROOF MOUNTED ON PROPRIETARY STEEL SUPPORT COLUMNS.
- DUCTWORK TO BE SUSPENDED FROM STRUCTURAL STEEL USING PROPRIETARY SUPPORTS.
- EXTRACT FAN TO BE MOUNTED INTERNALLY ADJACENT TO THE WALL ON PROPRIETARY STRUCTURAL SUPPORT FRAME COMPLETE WITH ANTI-VIBRATION MOUNTS AND FLEXIBLE CONNECTION. DISCHARGE HORIZONTALLY THOUGH WALL VIA PROPRIETARY WEATHERPROOF HIGH-VELOCITY DISCHARGE NOZZLE.
- PROVIDE VSD FOR LEV EXTRACT FAN, FAN TO BE COMMISSIONED TO ACHIEVED REQUIRED DESIGN AIRFLOW.
- PROVIDE DESTRATIFICATION FANS AS INDICATED ON THE DRAWING.
- FANS TO BE SUSPENDED FROM STRUCTURAL STEEL COMPLETE WITH ANTI-VIBRATION FIXINGS. CO-ORDINATE FAN LOCATIONS WITH LIGHTING, RADIANT HEATING PANELS AND LEV DUCTWORK.
- PROVIDE VSD TO ALL DESTRATIFICATION FANS.
- INERLOCK DESTRATIFICATION FAN CONTROL WITH LEV SYSTEM TO PREVENT ADVERSE EFFECTS ON LEV CAPTURE PERFORMANCE.
- PROVIDE EXTRACT VENTILATION TO WC.
- PROVIDE LOCAL ISOLATOR ADJACENT TO EACH FAN.
- ALL SERVICES THROUGH FIRE BARRIERS SHALL BE SLEEVED EACH SIDE OF THE BARRIER. THE MAIN CONTRACTOR SHALL ALLOW FOR FIRE PROOFING THE OPES AFTER SERVICE IS INSTALLED.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY LABOUR, WIRING AND ATTENDANCES IN COMPLETING MECHANICAL WORKS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.

SCHEDULE -CENTRIFUGAL FAN										
TAG	LOCATION	POWER [kW]	VOLTAGE [V]	FREQUENCY [Hz]	MOUNTING HEIGHT [mm]	FACTORY FITTED CLOCKWISE ROTATION [°]	TOTAL AIRFLOW [m3/h]	MODEL	MANUFACTURER	COMMENTS
V.CF/G.01	CIRCULATION	4.0	208.0	60	4000	90	5600	14522028	NEDERMAN	OR EQUAL AND EQUIVALENT
V.CF/G.02	CIRCULATION	4.0	208.0	60	4000	90	5600	14522028	NEDERMAN	OR EQUAL AND EQUIVALENT

SCHEDULE - FAN INVERTER					
TAG	LOCATION	TYPE	MODEL	MANUFACTURER	COMMENTS
V.VSD/G.01	CIRCULATION	FAN INVERTER 3	1452137	NEDERMAN	OR EQUAL AND EQUIVALENT

SCHEDULE - EXTRACT FAN						
TAG	LOCATION	FLOWRATE [l/s]	TYPE	MODEL	MANUFACTURER	COMMENTS
V.EF/G.01	WC	6	WALL MOUNTED	LO-CARBON QUADRA HTP	VENT AXIA	OR EQUAL AND EQUIVALENT

SCHEDULE -DESTRATIFICATION FANS									
TAG	LOCATION	DIAMETER	HEIGHT	VOLTS	RPM	m³/Hr	MODEL	MANUFACTURER	COMMENTS
V.DF/G.01	CIRCULATION	355	546	230	1230	690	MODEL 15	AIRIUS	OR EQUAL AND EQUIVALENT
V.DF/G.02	CIRCULATION	355	546	230	1230	690	MODEL 15	AIRIUS	OR EQUAL AND EQUIVALENT
V.DF/G.03	CIRCULATION	355	546	230	1230	690	MODEL 15	AIRIUS	OR EQUAL AND EQUIVALENT

SCHEDULE -EXTRACTION ARMS							
TAG	LOCATION	DIAMETER [mm]	ARM LENGTH [mm]	AIRFLOW [m3/h]	MODEL	MANUFACTURER	COMMENTS
V.EA/G.01	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.02	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.03	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.04	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.05	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.06	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.07	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.08	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.09	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.10	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.11	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.12	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.13	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT
V.EA/G.14	CIRCULATION	160	4000	800	EXTRACTION ARM ORIGINAL	NEDERMAN	OR EQUAL AND EQUIVALENT

No.: Date: By: Revision:

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Project: BANAGHER PLUMBING WORKSHOP

Address: BANAGHER FET CENTRE, MAIN STREET, BANAGHER, CO. OFFALY

Client: LOETB

Title: VENTILATION SERVICES INSTALLATION

Drawing No: 2512-CCE-00-ZZ-DR-M002

Rev No: B

Date: 28/09/2026

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Drawn by: NM

Checked: DM

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