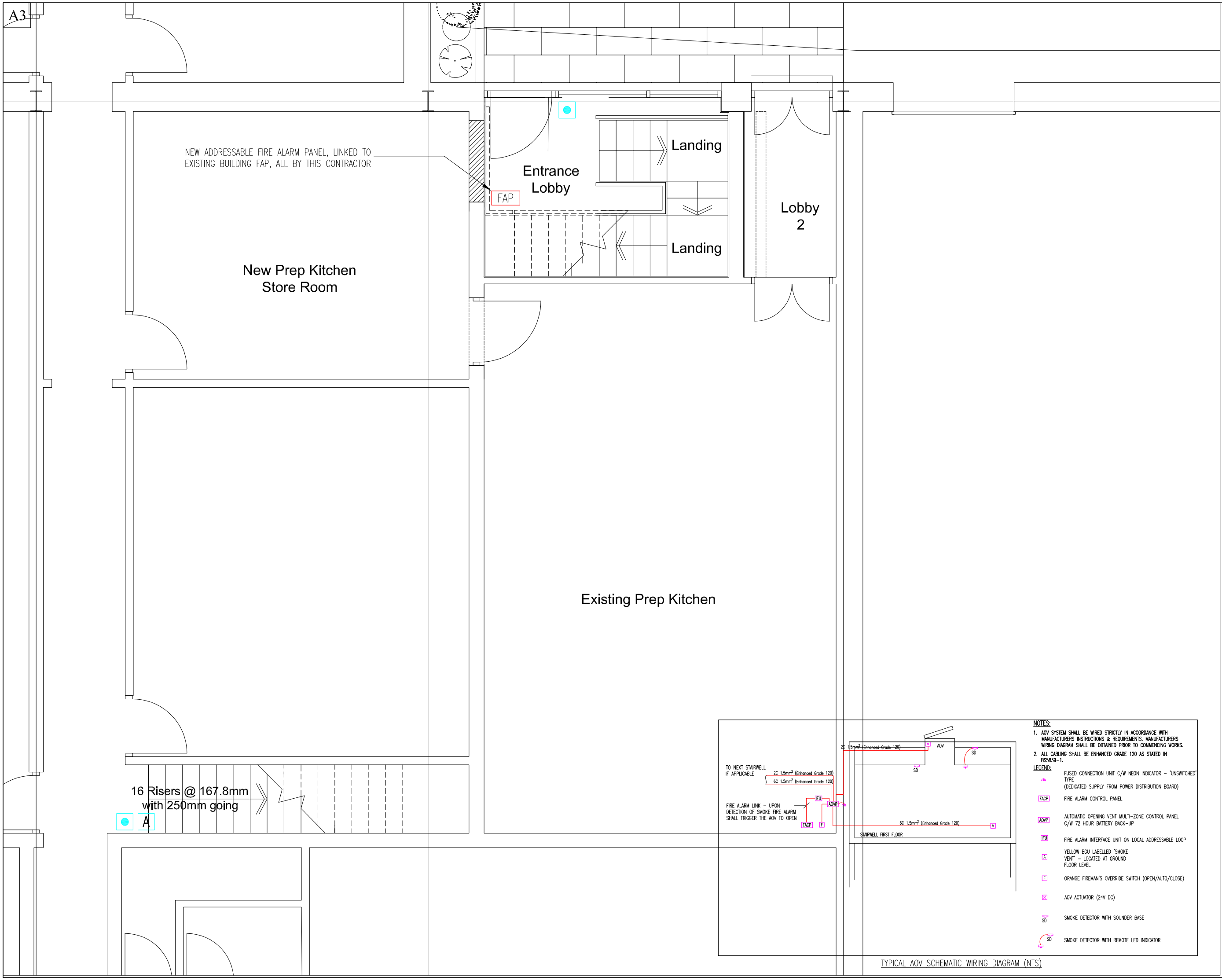
A3



NOTES:

1. AOV SYSTEM SHALL BE WIRED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS & REQUIREMENTS. MANUFACTURERS WIRING DIAGRAM SHALL BE OBTAINED PRIOR TO COMMENCING WORKS.
2. ALL CABLING SHALL BE ENHANCED GRADE 120 AS STATED IN BS5839-1.

LEGEND:

- FUSED CONNECTION UNIT C/W NEON INDICATOR – 'UNSWITCHED' TYPE (DEDICATED SUPPLY FROM POWER DISTRIBUTION BOARD)
- FACP — FIRE ALARM CONTROL PANEL
- AOVP — AUTOMATIC OPENING VENT MULTI-ZONE CONTROL PANEL C/W 72 HOUR BATTERY BACK-UP
- IFU — FIRE ALARM INTERFACE UNIT ON LOCAL ADDRESSABLE LOOP
- A — YELLOW BGU LABELLED 'SMOKE VENT' – LOCATED AT GROUND FLOOR LEVEL
- F — ORANGE FIREMAN'S OVERRIDE SWITCH (OPEN/AUTO/CLOSE)
- AOV ACTUATOR (24V DC)
- SD — SMOKE DETECTOR WITH SOUNDER BASE
- SD — SMOKE DETECTOR WITH REMOTE LED INDICATOR

TYPICAL AOV SCHEMATIC WIRING DIAGRAM (NTS)

GENERAL NOTES

1) Do not scale services equipment from this drawing.
2) All dimensions should be checked on site.
3) Any drawing errors or divergences should be brought to the attention of Geaney Engineering Consultants at the address shown below.
4) Drawing to be read in conjunction with all other drawings and documentation.

NOTES:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL DRAWINGS & SPECIFICATIONS.
2. THE ELECTRICAL CONTRACTOR SHALL CO-ORDINATE ALL SERVICES FULLY WITH ALL TRADES BEFORE COMMENCING WORK.
3. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS SHALL BE TAKEN ON SITE.
4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY INFORMATION TO ALLOW PROPER CO-ORDINATION OF ALL SERVICES.
5. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.
6. EXACT LOCATION OF ALL SERVICES SHALL BE AGREED WITH THE EMPLOYERS REPRESENTATIVE PRIOR TO COMMENCEMENT ON SITE.
7. ALL SERVICES AS SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE FINAL TENDER PRICE.
8. SAMPLE OF ALL EQUIPMENT SHALL BE APPROVED BY CLIENT, ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO ORDERING.
9. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.

FIRE ALARM & DETECTION NOTES:

1. THE FIRE ALARM SYSTEM SHALL COMPLY WITH I.S. 3218:2013 + A1: 2019 (NEW WORKS).
2. ALL EQUIPMENT REQUIRED TO PROVIDE A COMPLETE AND WORKING FIRE ALARM SYSTEM AS INDICATED ON THE DRAWINGS IS TO BE SUPPLIED, INSTALLED AND COMMISSIONED UNDER THIS CONTRACT.
3. ALLOW FOR RECOMMISSIONING THE ENTIRE EXISTING FIRE ALARM SYSTEM IN THE BUILDING/S FOLLOWING COMPLETION OF WORKS. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO SURVEY THE BUILDING/S TO DETERMINE THE EXACT LOCATION OF THE EXISTING FIRE ALARM CONTROL PANEL.
4. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO SURVEY THE EXISTING BUILDING/S TO DETERMINE THE EXACT LOCATION OF THE EXISTING FIRE ALARM CONTROL PANEL.
5. FIRE ALARM & DETECTION CABLING SHALL BE ENHANCED GRADE 120 AS STATED IN BS5839-1.
6. PRIMARY CONTAINMENT FOR FIRE ALARM & DETECTION CABLING SHALL BE DEDICATED GALVANISED STEEL CABLE TRAY. CABLING FROM PRIMARY CONTAINMENT TO INDIVIDUAL DEVICES (<2.0m) SHALL BE CLIPPED TO STRUCTURE WITH P-CLIPS RATED TO WITHSTAND A SIMILAR TEMPERATURE AND DURATION TO THAT OF THE CABLING (ENHANCED GRADE 120). THE MAXIMUM LENGTH OF CABLING TO BE RUN WITHOUT CABLE TRAY SHALL BE 2.0m. VERTICAL DROPS TO WALL MOUNTED DEVICES SHALL BE CARRIED IN 25ø GALVANISED STEEL CONDUITS.
7. SURFACE MOUNTED CONDUIT OR CONTAINMENT DROPS ARE NOT ACCEPTABLE IN THE EXTENSION.
8. MANUAL CALL POINTS SHALL BE SEMI-RECESSED C/W RECESSED GALVANISED STEEL BACKBOXES, GALVANISED STEEL CONDUITS TO SAME SHALL BE RECESSED IN STUD PARTITIONS/DRY LINING OR CHASED INTO MASONRY WALLS IF NECESSARY – LIAISE WITH MAIN CONTRACTOR. INTUMESCENT FIRE PADS TO BE FIXED TO THE REAR OF BACK BOXES RECESSED IN STUD PARTITIONS. THE INTEGRITY OF THE FIRE RATED PARTITIONS MUST BE MAINTAINED.
9. MANUAL CALL POINTS SHALL BE INSTALLED AT 1200mm A.F.F.L. AND SHALL BE LOCATED IN EASILY ACCESSIBLE, WELL ILLUMINATED AND CONSPICUOUS POSITIONS THAT ARE FREE FROM OBSTRUCTION.
10. ALL FIRE ALARM AUDIBLE SOUNDER DEVICES SHOULD HAVE A SIMILAR SOUND AND SHALL BE DISTINCT FROM ANY OTHER AUDIBLE ALARMS.
11. FIRE ALARM DETECTORS TO BE C/W CONDITION INDICATING LIGHT.
12. INTERFACE UNIT POSITIONS SHOWN ARE INDICATIVE ONLY TO INDICATE EQUIPMENT TO BE INTERFACED. GENERALLY INTERFACE UNITS SHALL BE LOCATED IN ELECTRICAL SWITCHROOMS OR IN OTHER AGREED LOCATIONS.
13. DOOR HOLD DEVICES SHALL BE LINKED TO THE FIRE ALARM SYSTEM TO RELEASE AUTOMATICALLY IN THE EVENT OF FIRE.
14. POWER SUPPLIES TO DOOR HOLD DEVICES SHALL BE FROM A DEDICATED CIRCUIT.
15. THE MAIN CONTRACTOR AND M&E CONTRACTORS SHALL LIAISE PRIOR TO COMMENCING WORKS SUCH THAT:
    - MINIMUM CLEAR SPACE OF 500mm IS MAINTAINED AROUND AND BELOW EACH SMOKE DETECTOR.
    - MINIMUM CLEAR SPACE OF 1000mm IS MAINTAINED BETWEEN VENTILATION TERMINALS AND SMOKE DETECTORS.

FIRE ALARM & DETECTION LEGEND:

- S — SMOKE DETECTOR
- S — SMOKE DETECTOR WITH SOUNDER BASE
- S — SMOKE DETECTOR WITH SOUNDER BASE & LED STROBE
- CV S — SMOKE DETECTOR IN CEILING VOID
- AS S — SMOKE DETECTOR WITH SOUNDER BASE IN ATTIC SPACE
- REMOTE LED INDICATOR VISIBLE AT CEILING
- MANUAL CALL POINT (RESETTABLE VIA KEY)
- IFU — FIRE ALARM INTERFACE UNIT
- PSU — POWER SUPPLY UNIT FOR DOOR HOLD OPEN DEVICE
- FAP — ADDRESSABLE FIRE ALARM PANEL (LINKED TO MAIN FAP)
- ASAP — ASPIRATING SMOKE DETECTION PANEL

AOV LEGEND:

- AOVP — AUTOMATIC OPENING VENT CONTROL PANEL
- A — AOV OVERRIDE (YELLOW BGU)
- F — FIREMAN'S OVERRIDE SWITCH (OPEN/AUTO/CLOSE)
- AOV — AOV ACTUATOR LINKED TO AOV CONTROL PANEL

Revision	Description	Date	Drawn	Checked
1	Construction Issue	May 2026	RJM	CG
0	Construction Issue	April 2024	RJM	CG

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project title:
Dunhill Eco Centre
Proposed Offices
Dunhill, Co. Waterford

drawing title:
Fire Detection & Alarm Layout
Ground Floor

architect: The E Project Charted Architects

scale: 1:50 @ A3

drawing number: EL6

project number: 0595