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General notes:

This drawing to be read in conjunction with all relevant architectural drawings and specifications.

This drawing to be read in conjunction with all relevant structural drawings and specifications.

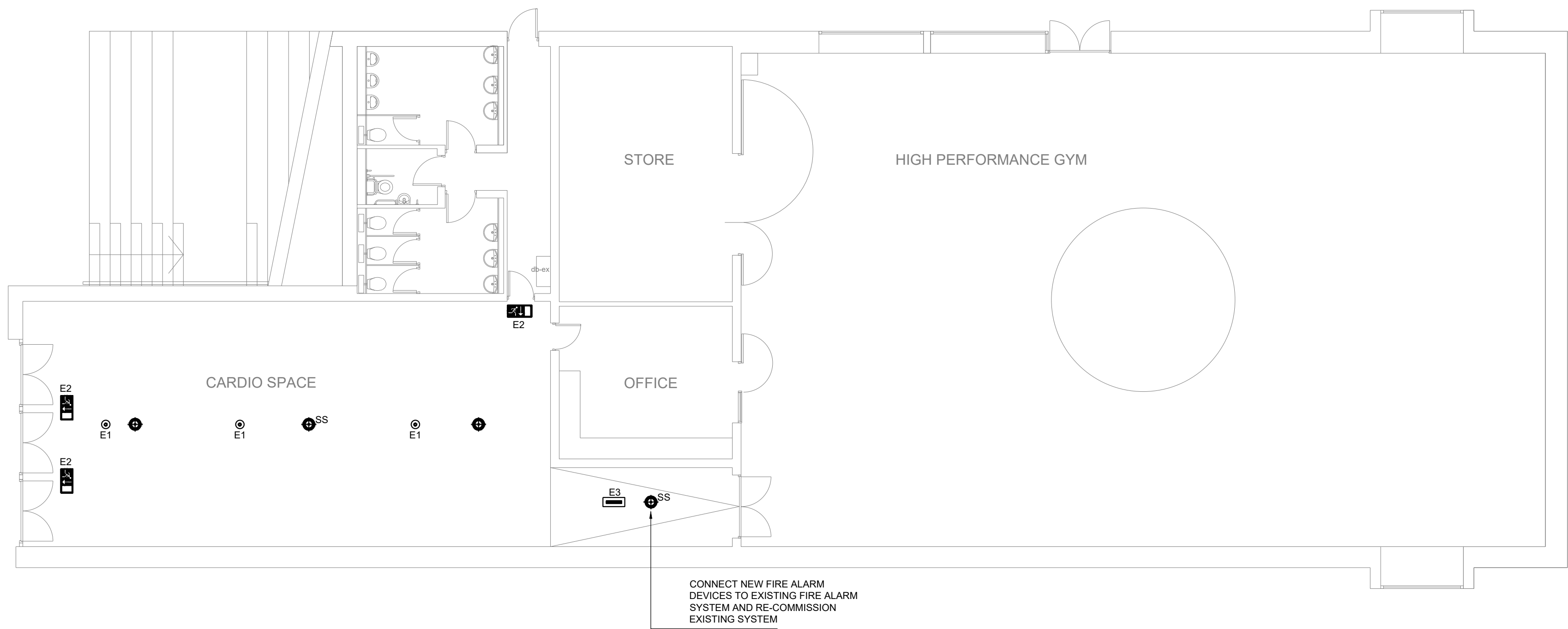
This drawing to be read in conjunction with all relevant mechanical and electrical drawings and specifications.

All dimensions in millimeters. do not scale from this drawing. only use figured dimensions only.

Contractor must verify all dimensions on site prior to installation of services and production of working drawings.

PROTECTIVE SERVICES

- Legend:**
- | SYMBOL | DESCRIPTION |
|--------|--|
| | OPTICAL SMOKE DETECTOR |
| | OPTICAL SMOKE DETECTOR - SOUNDER |
| | OPTICAL SMOKE DETECTOR SOUNDER / STROBE |
| | OPTICAL SMOKE DETECTOR IN CEILING VOID |
| | FIXED TEMPERATURE HEAT DETECTOR |
| | MANUAL CALL POINT C/W LID |
| | FIRE ALARM SOUNDER |
| | FIRE ALARM SOUNDER C/W FLASHING BEACON |
| | EXTERNAL FIRE ALARM SOUNDER |
| | FIRE ALARM INTERFACE UNIT (I/O) |
| | FIRE ALARM PANEL |
| | FIRE ALARM REPEATER PANEL |
| | FIRE ALARM TRANSMITTER / RECEIVER BEAM |
| | CARBON MONOXIDE SENSOR |
| | DISABLE REFUGE ALARM PANEL |
| | DISABLE REFUGE CALL POINT |
| | DOOR HOLD DEVICE |
| | MAINTAINED EXIT |
| | RECESSED LED EMERGENCY SPOT |
| | RECESSED EMERGENCY BULKHEAD |
| | 1200 X 600 RECESSED / SURFACE FLUORESCENT C/W 3HR EMERGENCY INVERTER |
| | 600 X 600 RECESSED / SURFACE FLUORESCENT C/W 3HR EMERGENCY INVERTER |
| | 1500MM RECESSED/SUFACE FLUORESCENT C/W 3HR EMERGENCY INVERTER |
| | 1200MM RECESSED/SUFACE FLUORESCENT |
| | TWIN SPOT INVERTOR |
| | RECESSED DOWNLIGHT C/W 3HR EMERGENCY INVERTER |
| | WALL LIGHT C/W 3HR EMERGENCY INVERTER |
- Standard Fire Alarm notes:**
- The Fire Alarm system shall be installed and tested in accordance with IS3218:2024 Code of Practice for Fire Detection and Alarms
 - All cabling to be PH120 Enhanced - fire rated cables and contained on cabletray and steel conduit.
 - In the event the main cabletray cannot be utilised, the cables shall be clipped using steel clips to the building fabric and structural components
 - The cabling installation shall be in full compliance with the relevant chapter (cable systems) of the standard.
 - Cable segregation shall be adhered to at all times.
 - Where a new and independent system is installed, the fire alarm panel shall be linked to the intruder alarm panel and shall have 24hr monitoring. Contractor to provide telephone to fire alarm panel.
 - All fire alarm devices shall be clearly labeled and a laminated zone and device chart provided adjacent the main fire alarm panel
 - All void detectors are to be fitted with a remote led indicator fixed to underside of ceiling directly below the device in the void
 - Location of all electrical services to be agreed with the design team prior to installation
 - All break glass units to be installed at 1000mm AFFL unless noted otherwise
 - All sounder units to be installed at 2200mm AFFL unless noted otherwise
 - All high level fused connection units to be installed at 2200mm AFFL unless noted otherwise
 - This drawing is to be read in conjunction with the electrical technical specification which mentions items not specifically mentioned on contract drawings.
 - Final location of devices to be coordinated with the architect's reflective ceiling plan and coordinated through the main contractor on site.
 - The contractor shall include for the supply and installation 15No. additional devices to cater for unforeseen obstructions as part of the building construction.
 - As part of handover, the contractor shall include for two client demonstrations. The contractor shall ensure adequately trained personnel shall be on site to give the client demonstrations and will have full knowledge of the system.
- Standard Emergency Lighting notes:**
- All cabling for lighting and emergency lighting circuits to be 1.5mm LSOH Cca singles in steel conduit and trunking.
 - All switch locations to be co-ordinated on site with the latest architectural drawings at the time of installation.
 - Each luminaire to have its own click as described in the technical specification.
 - The wiring installation must be installed in accordance with the ETCI regulations IS10101
 - The emergency lighting installation shall be installed, tested and commissioned in accordance with IS3217:2023 Code for Emergency Lighting.
 - All products shall be CE marked.
 - All products shall comply with the specification.
 - Light Fittings shall be installed in strict accordance with the manufactures instructions.
 - In the event that alternative light fittings are proposed, the electrical contractor shall produce and submit full lighting calculations and cost benefit analysis for the Consulting Engineer to review and approve.
 - The contractor shall include for the supply and installation 15No. additional fittings to cater for unforeseen obstructions as part of the building construction.



1 NEW GENERAL LIGHTING LAYOUT

Scale: 1:100

TYPE E1				
	MANUFACTURER	COOPER LIGHTING	HALO PACK 2	
	INSTALLATION TYPE	RECESSED / SURFACE	DIMENSIONS	120mmØ
	CONSTRUCTION	POLYCARBONATE	BALLAST TYPE	LED DRIVER
	COLOUR / RAL NO.	WHITE	DIMMING	YES
	REFLECTOR / LOUVRE	POLYCARBONATE	EMERGENCY	YES
	LAMP SOURCE	3W WHITE LED	BATTERIES	NIMH
	NO. OF LAMPS	1	INGRESS PROTECTION	IP44

TYPE E2				
	MANUFACTURER	COOPER LIGHTING	VELOS	
	INSTALLATION TYPE	SUSPENDED / SURFACE	DIMENSIONS	346x224x69
	CONSTRUCTION	POLYCARBONATE	VIEWING DISTANCE	30/40M
	COLOUR / RAL NO.	WHITE	DIMMING	NO
	REFLECTOR / LOUVRE	POLYCARBONATE	EMERGENCY	YES
	LAMP SOURCE	24W LED STRIP	BATTERIES	NIMH
	NO. OF LAMPS	1 LED STRIP	INGRESS PROTECTION	IP40

TYPE E3				
	MANUFACTURER	EATON	ZETA 4 LARGE	
	INSTALLATION TYPE	SURFACE	DIMENSIONS	170 X 69 X 371mm
	CONSTRUCTION	POLYCARBONATE	BALLAST TYPE	LED DRIVER
	COLOUR / RAL NO.	WHITE	DIMMING	NO
	REFLECTOR / LOUVRE	POLYCARBONATE	EMERGENCY	YES
	LAMP SOURCE	8 * .6W LEDS (4.8W)	BATTERIES	NICD
	NO. OF LAMPS	4.8W TOTAL	INGRESS PROTECTION	IP65

2 LIGHT FITTING SCHEDULE

Scale: NTS

P01	For Information	dd/mm/2025
Rev	Description	Date



Client: Mary Immaculate College

Architect: Quinn Architects

Project: High Performance Gym
T2 Tailteann Building, MIC

Drawing: Electrical Installation
Protective Services New

MFC Project Reference | 26.3138 | Scale | 1:100 A1

Drawn | BC | Checked | TK | Approved | JM

Drawing Reference: Status: Rev: 26.3138-MFC-XX-00-DR-E-6500 (S2) (P01)