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Government of Ireland



Arna chomhchistiú ag
an Aontas Eorpach
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Tionól Réigiúnach
an Deiscirt
Southern Regional
Assembl



Enterprise
Ireland

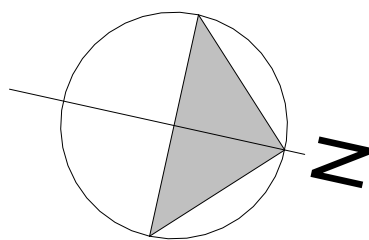
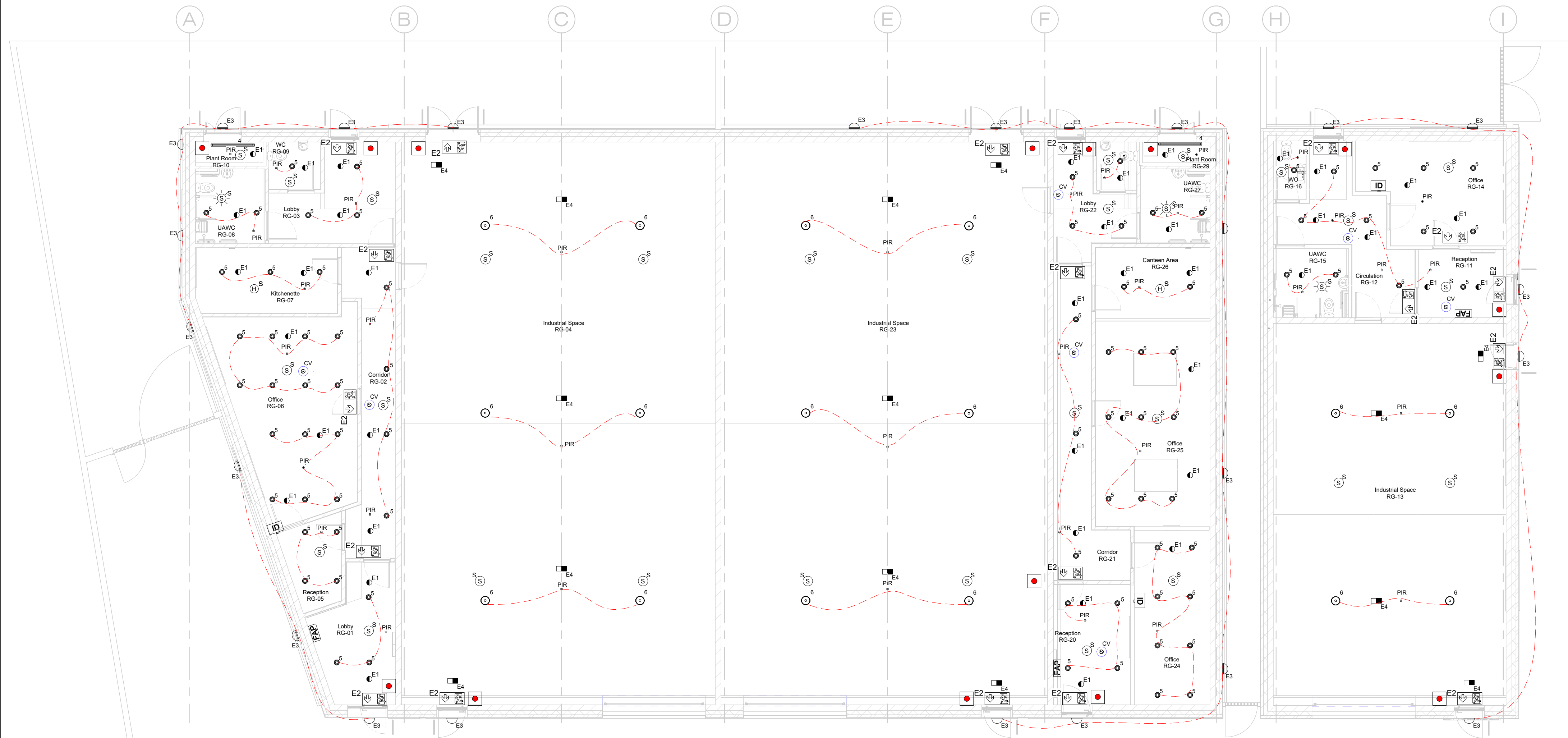
South East Catalyst Innovation Company CLG (trading as Catalyst HQ) is co-funded by the Government of Ireland and the European Union through the ERDF Southern, Eastern & Midland Regional Programme 2021-2027

Fire Alarm System Notes:

- The fire alarm system shall comply with IS3218: 2024.
- Vertical drops to manual call points shall be in galvanised steel conduit.
- Manual call points shall be installed 1200mm A.F.F.L. and shall be in easily accessible, well illuminated and conspicuous positions that are free from obstructions.
- All manual call points shall be fitted with cover.
- All fire alarm audible sounder devices should have a similar sound and shall be distinct from any other audible alarms.
- Interface units/relays shall be installed for linking to gas detection systems, gas valves, smoke vents, boilers and ventilation fans.
- Allow for interface units to all extract fans and AHUs to turn off on fire alarm activation.
- Interface unit positions shown are indicative only to indicate equipment to be interfaces. Final positions of interface units to be agreed on site.
- All new and existing access controllers shall be interfaced with the fire alarm system.
- Fire alarm cabling to be carried in dedicated galvanized steel containment. Allow for all vertical cable tray and offsets as required. Cabling from tray to devices to be carried in 25mm Ø galvanized steel conduit.
- All containment shall run true to main building lines.
- Fire alarm detectors to be c/w condition indicating light.

Normal & Emergency Lighting Notes:

- The emergency lighting installation shall comply with IS3217: 2023.
- Emergency lighting to be coordinated with safety signs and fire aid which are subject to statutory requirement.
- Handover drawings and documents shall be in accordance with clauses 6.1, 6.2 and 6.3 of IS EN 50172.
- All emergency light fitting, exit sign ETC shall be wired via interface units and controlled by central test unit in respective distribution board.
- The electrical contractor shall ensure that all fire alarm manual call points, fire alarm panels, AOV panels, fire fighting equipment, first aid boxes, safety signs, disabled toilet alarm call points, emergency evacuation call points, control panels, and electrical distribution boards have an emergency light adjacent to them such that in the event of a power outage 5 lux vertical illuminance is provided. To this end the electrical contractor shall allow for 12No. 33W LED fittings in addition to fittings already shown on the layouts. Their final location of all to be agreed.
- The electrical contractor shall allow for 10No. IP65 LED twin spot emergency fittings in addition to those shown on the layouts - same to be mounted on the building facade in locations to be agreed. Fittings to directed at assembly points to be defined.
- The electrical contractor shall allow for the installation of emergency lighting within each lift shaft in accordance with IS3217 2023.
- The electrical contractor shall allow for labeling all emergency lights and for identifying on as installed drawings.
- The electrical sub contractor shall allow for the supply and installation of a dust proof batten LEDs at each level within the lift shaft including the lift pit. lights to be switch at both the lift pit and the lift control panel.
- External wall lights to be controlled by time clock and photocell. these lights also provide emergency lighting to muster points.



LIGHTING

X	LED LUMINAIRE (X DENOTES TYPE)
X	LED LUMINAIRE - EMERGENCY (X DENOTES TYPE)
X	DOWNLIGHT RECESSED OR SURFACE TYPE LUMINAIRE (X DENOTES TYPE)
X	DOWNLIGHT RECESSED / SURFACE TYPE LUMINAIRE - EMERGENCY (X DENOTES TYPE)
X	WALL MOUNTED LUMINAIRE (X DENOTES TYPE)
X	WALL MOUNTED LUMINAIRE - EMERGENCY (X DENOTES TYPE)
X	EMERGENCY BULKHEAD - RECESSED OR SURFACE LUMINAIRE (X DENOTES TYPE)
X	EXTERNAL BULKHEAD - WALL MOUNTED EMERGENCY LUMINAIRE (X DENOTES TYPE)
X	LOW BAY TYPE LUMINAIRE (X DENOTES TYPE)
X	EXTERNAL POLE MOUNTED LUMINAIRE (X DENOTES TYPE)
X	LED STRIP LIGHT IN ALUMINIUM PROFILE (X DENOTES TYPE)
X	EXTERNAL GROUND LUMINAIRE (X DENOTES TYPE)
X	EXTERNAL BOLLARD LUMINAIRE (X DENOTES TYPE)
X	EMERGENCY TWIN SPOT LUMINAIRE
X	EMERGENCY EXIT SIGN - EXIT AT CENTRE (X DENOTES TYPE)
X	EMERGENCY EXIT SIGN - EXIT AT YOUR LEFT (X DENOTES TYPE)
X	EMERGENCY EXIT SIGN - EXIT AT YOUR RIGHT (X DENOTES TYPE)
X	ONE WAY SWITCH
X	TWO WAY SWITCH
X	INTERMEDIATE SWITCH
X	DIMMER SWITCH
X	PASSIVE INFRARED MOTION DETECTOR
X	PHOTOCELL
X	CENTRAL TEST UNIT FOR EMERGENCY LIGHTING
X	DOOR BELL PUSH BUTTON
X	DOOR BELL

FIRE DETECTION

S	X	SMOKE DETECTOR CV - IN CEILING VOID FV - IN FLOOR VOID AH - IN AIR HANDLING DUCT	OP - OPTICAL ION - IONISATION M - MULTI SENSOR
S	S	COMBINED SMOKE DETECTOR/SOUNDER	
H		HEAT DETECTOR F - FIXED TEMPERATURE R - RATE OF RISE	
D		DUCT DETECTOR	
CO		CARBON MONOXIDE DETECTOR MAINS AND BATTERY TYPE WITH INTEGRAL SOUNDER	
S		SMOKE DETECTOR MAINS AND BATTERY TYPE WITH INTEGRAL SOUNDER	
H		HEAT DETECTOR MAINS AND BATTERY TYPE WITH INTEGRAL SOUNDER	
S	CO	COMBINED SMOKE & CARBON MONOXIDE DETECTOR MAINS AND BATTERY TYPE WITH INTEGRAL SOUNDER	
RT		BEAM SMOKE DETECTOR R - RECEIVER T - TRANSMITTER	
FAP		MANUAL CALL POINT (BREAK GLASS UNIT)	
FARP		FIRE ALARM PANEL	
B		FIRE ALARM REPEATER PANEL	
S		FLASHING BEACON	
S		COMBINED FIRE DETECTOR, SOUNDER & FLASHING BEACON	
R		REMOTE LAMP INDICATOR UNIT	
Ri		REMOTE DETECTOR INDICATOR	
B		FIRE ALARM BELL CEILING MOUNTED	
B		FIRE ALARM BELL WALL MOUNTED	
B		FIRE ALARM EXTERNAL SOUNDER	
IO		INPUT/OUTPUT MODULE	
DRAP		DISABLED REFUGE ALARM PANEL	
DACP		DISABLED REFUGE ALARM CALLPOINT	
FHD		FIRE DOOR HOLDER	
K		KEYSWITCH	

STATUS		TENDER	
 Ronan Meally Consulting Engineers			
PROJECT			
CATALYST HQ, QUANTUM HOUSE O'BRIEN ROAD, CARLOW			
TITLE			
BLOCK C LIGHTING & FIRE ALARM LAYOUT			
CLIENT			
CARLOW ENTERPRISE			
DRAWN BY MM		CHECKED BY RM	DATE JUL-2026
SCALE (@ A1) 1 : 100		PROJECT NUMBER E-C-200	
DRAWING NUMBER 23K14-RMCE-C-XX-DR-E-200			REV T3