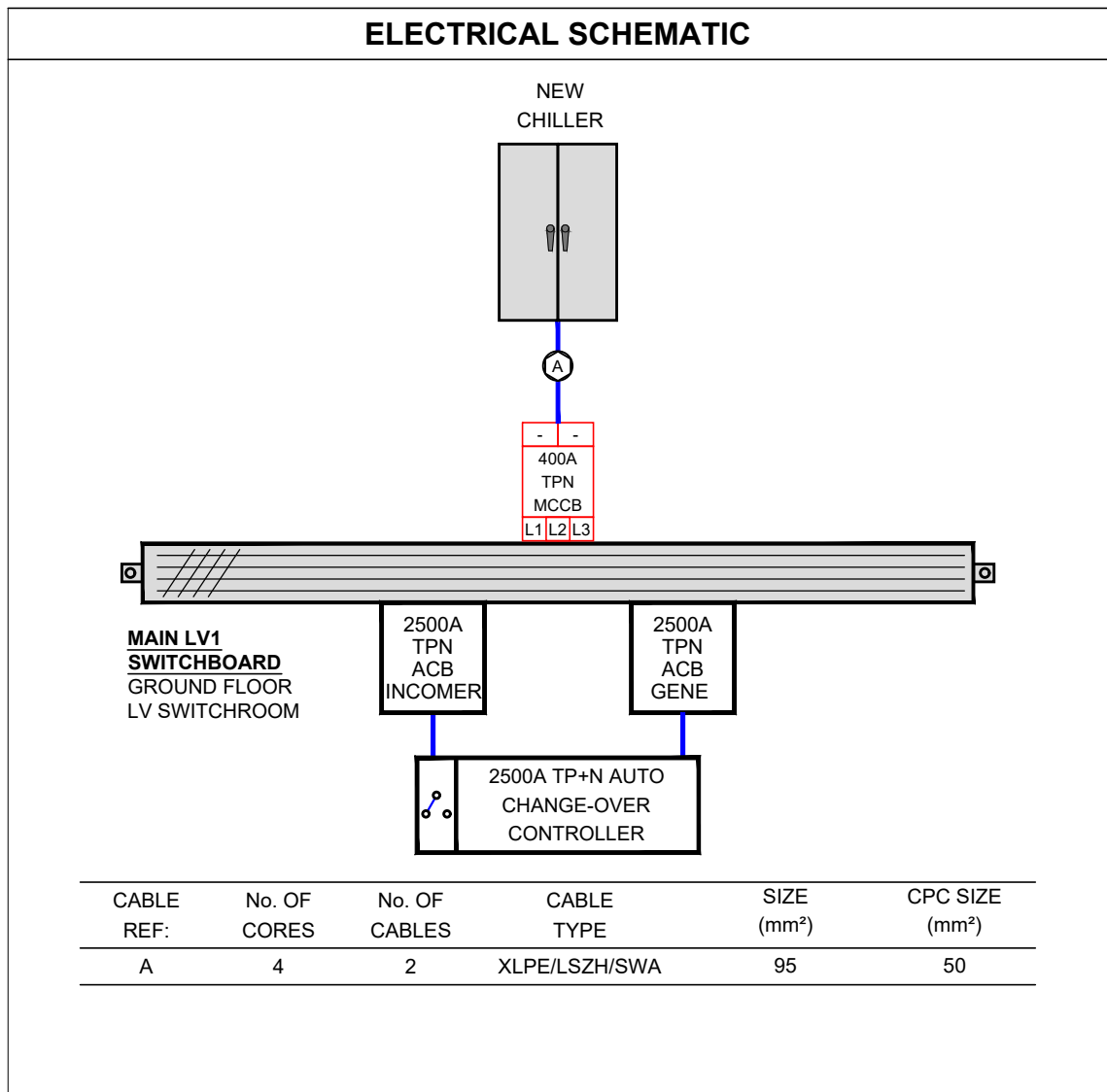
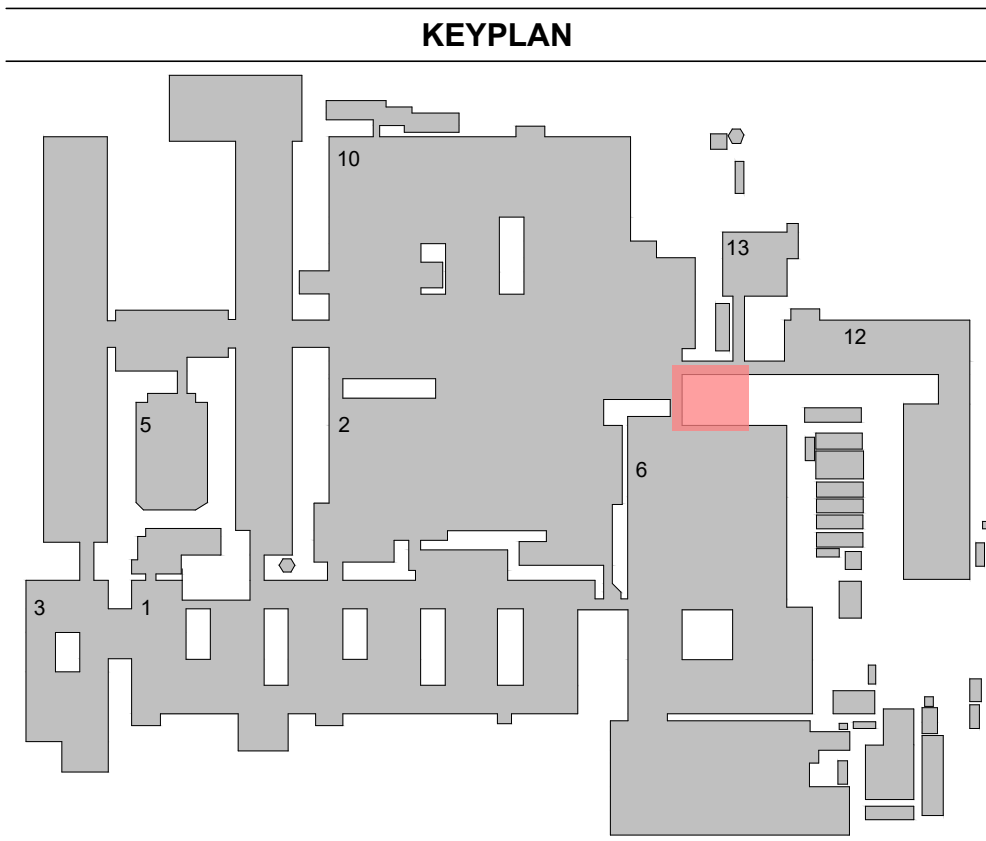




SCHEDULE OF CHILLERS, BEAUMOUNT AHU AND CHILLER REPLACEMENT B2605										
Ref. No.	Location	Type	Height (mm)	Width (mm)	Length (mm)	Nominal Cooling Output (kW)	Fan Air Flow Rate (l/s)	CHW. F&R Conn. (mm)	SEER kW/kW	Comments
CH.01	External Chiller Compund	Air Cooled Outdoor Chiller	2,535	2,238	3,694	426.6	38240	Ø80	4.93	Air cooled outdoor chiller c/w scroll compressor, R32, Duty/Standby VSD pumps, Axial fans, flow switch, anti-vibration mounts and BCAnet BMS Capability - <u>Selection based on - Daikin EWAT-430-SSC2</u>
		Cooling Efficiency EER kW/kW	Inlet/Outl et Water Temps		Water Flow rate system side l/s	Water Pressure drop (kPa)	Refrigerant	GWP	Compres sor Type	Chiller shall be capable of providing 426.6 kW @ external temperature of 35°C with design flow and return temperatures of 7/12°C.
		2.894	7/12°C		20.36	73.3	R32	675.0	Scroll Step	Chiller shall be suitable for installation within existing plant constrains and shall incorporate variable capacity control to match system load.
		Weight (kg)	Power Supply	Max Inrush Current (A)	Running current Nominal (A)	Running Current Max (A)	Input Power (kW)	Sound Power - Lw(dBA)	Sound Pressure (10m) (dBA)	Contractor to decommission, disconnect and remove existing chiller and install new chiller complete with all necessary pipework, electrical and controls modifications. System to be recommissioned with minimal disruption to existing chilled water operation. System to be flushed, refilled and treated following installation in accordance with water treatment requirements. Contractor to ensure existing systems remain protected from contamination during works. All new pipework to be pressure tested and witnessed prior to commissioning.
		2951	400V/50 Hz/3~	792.0	263.0	344	147	92	60	



M10 - CHILLED WATER NOTES

- THE IN2 ENGINEERING DESIGN INTENT DRAWINGS ONLY SHOW INDICATIVE PRIMARY SERVICES ROUTES & TYPICAL LAYOUTS FOR PRELIMINARY CO-ORDINATION. THE SPECIALIST CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESIGN, INCLUDING THE LAYOUT OF SERVICES & DETAILED COORDINATION, & SHALL BE SUBJECT TO REVIEW BY THE TECHNICAL ADVISORS AS DEEMED APPROPRIATE. FOR MORE INFORMATION, PLEASE REFER TO IN2 ENGINEERING'S PERFORMANCE SPECIFICATION.
- ALL DIMENSIONS ARE IN MILLIMETERS
- THE CONTRACTOR SHALL ALLOW FOR ALL ANCILLARIES, CONNECTION PEICES, ISOLATORS, CONTROLS, SENSORS, SUPPORTS & ASSOCIATED COMPONENTS REQUIRED FOR A COMPLETE & FULLY FUNCTIONING INSTALLATION
- THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY ELECTRICAL WORKS & BUILDERS WORKS REQUIRED TO COMPLETE THE INSTALLATION.
- ALL NEW PLANT & ANCILLARY SERVICES SHALL BE INSTALLED ON NON-PENETRATIVE, FREE-STANDING SUPPORT SYSTEMS (E.G. BIG FOOT OR SIMILAR) SUITABLY RATED FOR PLANT LOAD, WIND LOAD & ACCESS REQUIREMENTS. NO INSULATION SUPPORTS SHALL BE ACCEPTABLE FOR PLANT. REFRIGERANT TRAYS CROSSING WALKWAYS SHALL BE PROVIDED WITH GALVANISED STEEL STEPS TO PREVENT DAMAGE FROM FOOT TRAFFIC.
- FOR CLARITY ON VALVING ARRANGEMENT PLEASE REFER TO SCHEMATIC DRAWING.
- ALL VALVES & FITTINGS TO MATCH 'LINE SIZE'.
- ALL EQUIPMENT SHALL BE INSTALLED WITH APPROPRIATE PIPE TRANSITIONS BEFORE VALVES & FITTINGS.
- IT IS MECHANICAL CONTRACTORS RESPONSIBILITY TO CAP ALL PIPEWORK DURING THE CONSTRUCTION TO ENSURE NO DIRT OR DEBRIS BLOCKS PIPES WHILE ALSO ENSURING THAT PIPEWORK IS ADEQUATELY PROTECTED WHILE EXPOSED. ALL ISOLATION VALVES SHALL BE QUARTER TURN LEVEL VALVES

M10 - CHILLED WATER LEGEND

- PIPEWORK RISE / DROP FROM ABOVE / BELOW
- PIPEWORK TEE
- PIPEWORK AT LOW LEVEL
- PIPEWORK AT HIGH LEVEL
- CHILLED WATER FLOW PIPEWORK
- CHILLED WATER RETURN PIPEWORK
- EXISTING CHILLED WATER FLOW PIPEWORK
- EXISTING CHILLED WATER RETURN PIPEWORK
- CONNECTION POINT TO EXISTING

LV DISTRIBUTION INSTALLATION NOTES

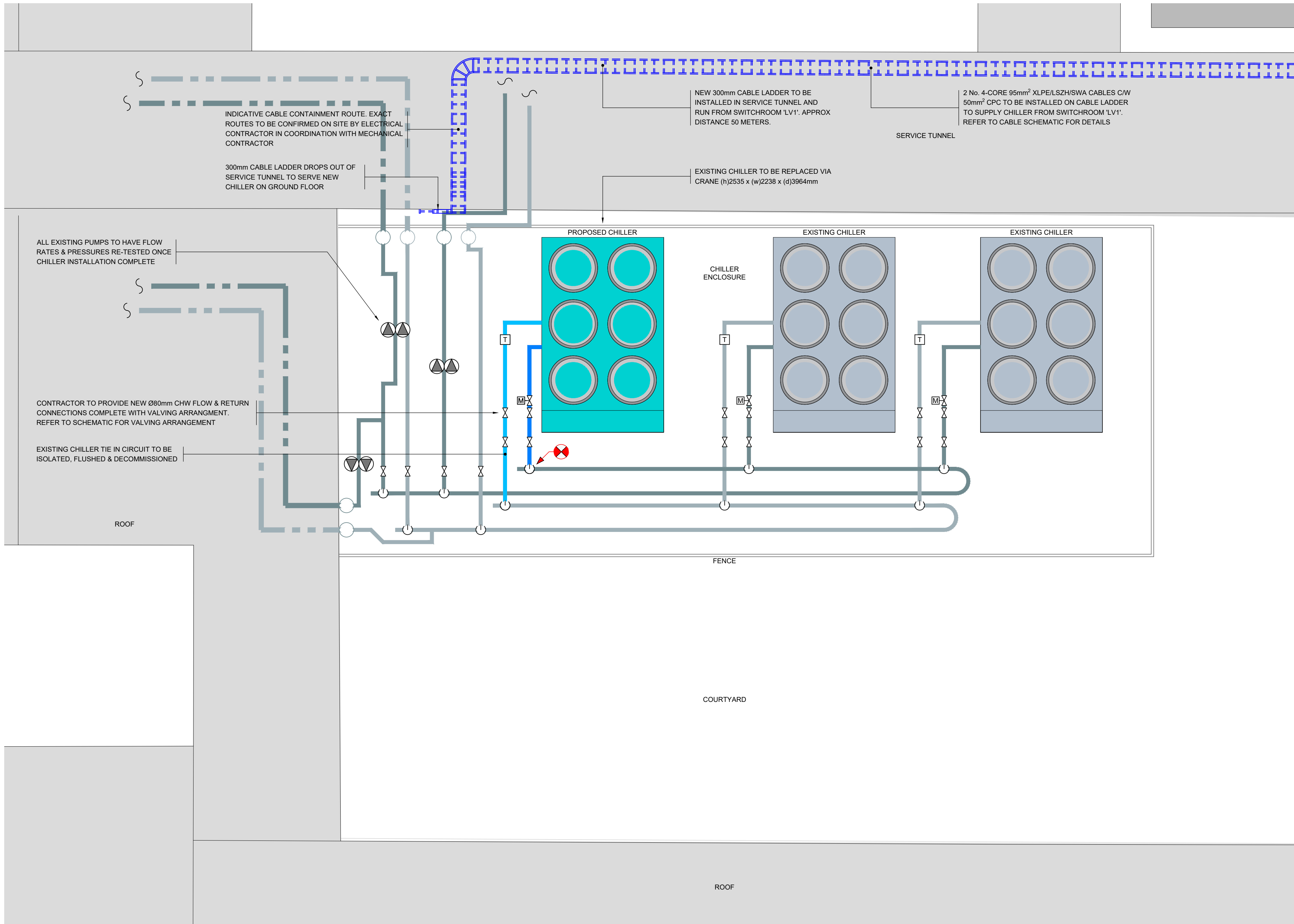
- THE DESIGN SHALL BE IN ACCORDANCE WITH THE NSAI NATIONAL RULES FOR ELECTRICAL INSTALLATIONS I.S.10101:2020+A1:2024/AC2:2025 AND ET201 CODE OF PRACTICE FOR THE DESIGN, SELECTION, AND ERECTION OF LOW VOLTAGE SWITCHBOARDS FOR INDUSTRIAL/COMMERCIAL APPLICATIONS.
- DRAWING INDICATES DESIGN INTENT ONLY. CONTRACTOR TO DEVELOP DESIGN & MODIFY CIRCUIT BREAKER & CABLE SIZES ETC. RATINGS TO SUIT DESIGN LOADS.
- THE FUSE SWITCH CUBICLE FOR THE FIRE ALARM PANEL SHALL BOTH BE PAINTED RED & CLEARLY LABELED 'FIRE ALARM - DO NOT SWITCH OFF'.
- COMPLETE BUSBAR CONNECTIONS ARE TO BE PROVIDED FOR CONNECTION OF POWER CORRECTION EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT LABELLING & TAGGING OF MAIN AND SUB-MAIN BOARDS, ETC.
- EXACT NUMBER OF OUTGOING WAYS TO BE DEVELOPED BY CONTRACTOR.
- ALL SWITCHBOARDS & DISTRIBUTION BOARDS SHALL HAVE 25% SPARE CAPACITY.
- ALL ELECTRICAL SWITCHBOARDS & DISTRIBUTION BOARDS SHALL BE I.S. EN 61439 COMPLIANT, TYPE TESTED ASSEMBLY (TTA) OR PARTIALLY TYPE TESTED ASSEMBLY (PTTA) COMPLYING WITH I.S. EN 61439-1.
- MAIN BOARD SHALL BE FITTED WITH COMBINED CLASS B & C LIGHTNING CURRENT ARRESTOR (B) & SURGE ASSESSOR (C).
- ELECTRONIC LIGHTNING / SURGE PROTECTION SHALL BE PROVIDED ON ALL INCOMING MAINS ALONG WITH SHUNT TRIP FACILITY VIA FIREMAN'S SWITCH.

CABLE CONTAINMENT INSTALLATION NOTES

- THE DESIGN SHALL BE IN ACCORDANCE WITH I.S.10101:2020+A1:2024/AC2:2025
- THIS DRAWING IS REPRESENTATIVE OF PRIMARY CONTAINMENT INSTALLATIONS. ANY ADDITIONAL CABLE CONTAINMENT OR CONDUIT RUNS REQUIRED BY THE SPECIFICATION OR REQUIRED BY THE CONTRACTOR TO PROVIDE A COMPLETE INSTALLATION WILL BE DEEMED TO BE INCLUDED.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER SERVICES INSTALLATION DRAWINGS AND WITH CO-ORDINATED MECHANICAL ELECTRICAL DRAWINGS PREPARED IN THE TENDOR DOCUMENTS.
- A SPACING OF 300mm WILL BE PROVIDED BETWEEN ALL L.V. POWER DISTRIBUTION CABLE TRAY AND FIRE DETECTION CONTAINMENT SYSTEMS.
- ALL PENETRATIONS THROUGH FIRE COMPARTMENT WALLS SHALL BE FIRE STOPPED TO THE SAME RATING AS THE WALL.
- CABLE CONTAINMENT ROUTES SHOWN ARE INDICATIVE AND SUBJECT TO INTRUSIVE SITE SURVEY TO DETERMINE OPTIMUM OPTION.

CABLE CONTAINMENT SCHEDULE OF SYMBOLS

- GALVANISED STEEL CABLE LADDER FOR SUB MAINS INSTALLATION (SIZE AS INDICATED)



13.05.2026	TENDER ISSUE	PG	CON	JF	S0	P01
DATE	DESCRIPTION	DRN	ENG	APP	STATUS	REVISION
CLIENT: BEAUMONT HOSPITAL BEAUMONT Rd, BEAUMONT, DUBLIN, IRELAND						
PROJECT: BEAUMONT AHU & CHILLER REPLACEMENT BEAUMONT Rd, BEAUMONT, DUBLIN, IRELAND						
DRAWING TITLE: COMBINED SERVICES INSTALLATION SITE PLAN PROPOSED CHILLED WATER INFRASTRUCTURE						
DRAWING No: B2605-IN2-XX-ZZ-DR-ME-1001		IN2 REF: B2605		SCALE 1:50		REVISION P01



IN2 Engineering
2nd Floor,
5-23 Hill Street,
Belfast, BT1 2LA
in2engineering.com