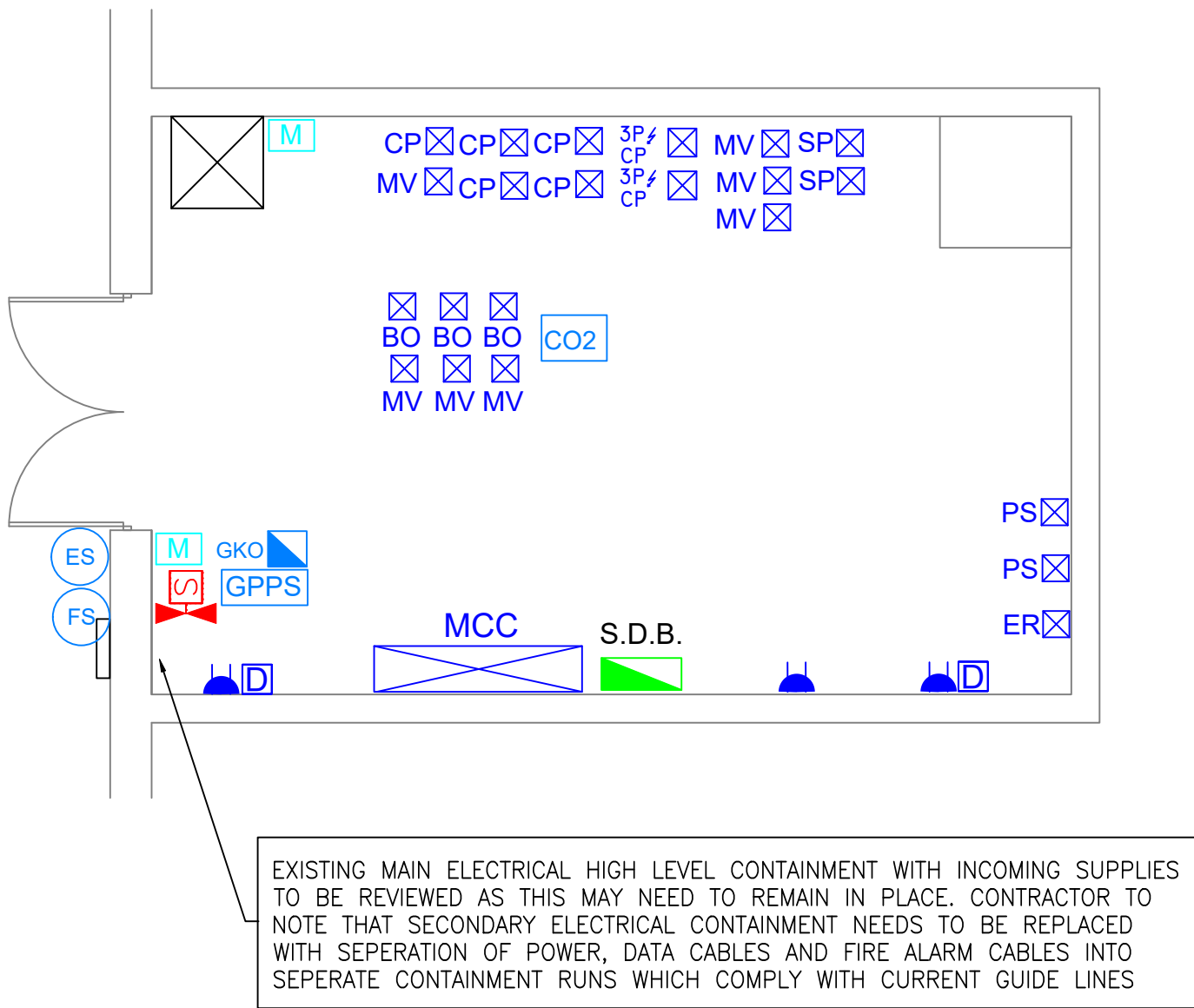


NOTES:- POWER SERVICES

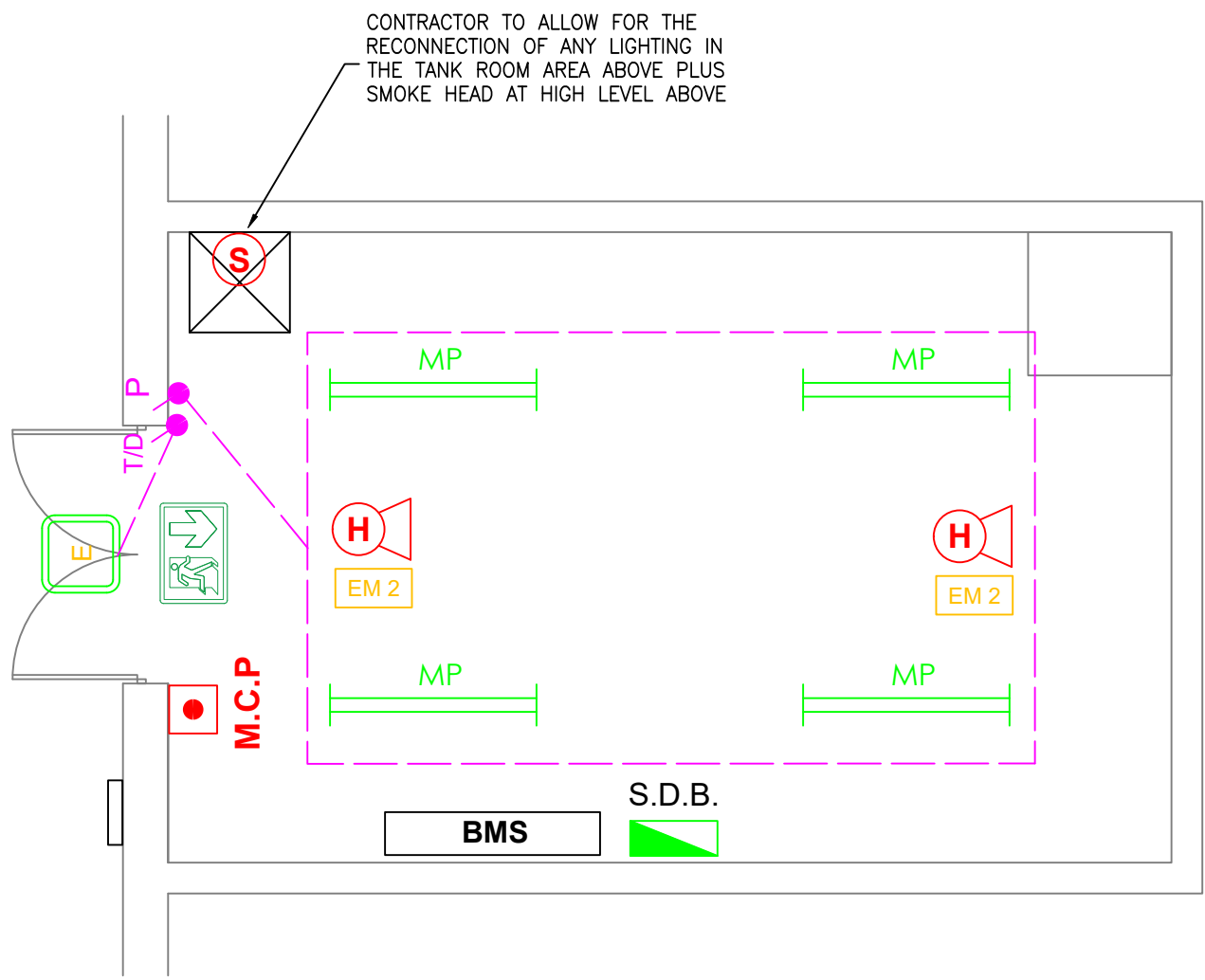
1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE ELECTRICAL INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE ELECTRICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. ELECTRICAL CONTRACTOR TO ALLOW FOR WIRING OF ROOM THERMOSTATS AND MOTORISED VALVES.
4. ALL DATA POINTS SHALL BE WIRED BACK INDIVIDUALLY TO MAIN DISTRIBUTION FACILITY IN THE DCC ROOM OR NEAREST INTERMEDIATE DISTRIBUTION FACILITY IN CAT 6A CABLE.
5. ALL ELECTRICAL SOCKET OUTLETS, FUSE SPUR OUTLETS AND LIGHT SWITCHES ETC TO BE SURFACE MOUNTED IN BOILER ROOM
6. THE CONTRACTOR SHALL ALLOW FOR A 30 CORE SWA/PVC CONNECTION BETWEEN THE MCC IN BOILER HOUSE AND REMOTE HEATING PANEL LOCATED IN THE GENERAL OFFICE
7. ALL SURFACE MOUNTED SOCKETS TO BE METALCLAD, ALL ELECTRICAL OUTLETS ON DADO TRUNKING TO BE PART M COMPLIANT, HIGH GLOSS, HIGH QUALITY THERMOSET MATERIAL.
8. ALL FIRE ALARM CABLES TO BE HIGH QUALITY GOLD ENHANCED TYPE, FIXED TO INDEPENDENT CONTAINMENT AND FIXED WITH SUITABLE FIRE RESISTANCE CLIPS AND TIES WHERE REQUIRED.
9. THE CONTRACTOR SHALL ALLOW FOR THE MONITORING OF THE FIRE ALARM SYSTEM THROUGH THE INTRUDER ALARM MONITORING.
10. ALL CABLES SHALL BE RUN IN STEEL CONDUIT THROUGHOUT, ALL DROPS SHALL ALSO BE IN STEEL CONDUIT THROUGHOUT.
11. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THE WIRING OF ALL MOTORISED VALVES AND ROOM THERMOSTATS ALL INDIVIDUALLY WIRED BACK TO THE BOILER HOUSE PANEL IN BELDEN 2-PAIR SCREENED CABLE THESE SHALL BE CONTROLLED FROM THE BOILER HOUSE PANEL.
12. CONTRACTOR TO ALLOW FOR THE WIRING OF AN OIL FILLED RADIATOR AND SWITCHED VIA A FROST STAT TO BE LOCATED IN THE BOILER HOUSE.
13. THE CONTRACTOR IS REQUIRED TO REVIEW THE MECHANICAL DRAWINGS AND MAKE ALLOWANCES FOR CONTROLS AND ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.
14. ALL SOCKET OUTLETS SHALL BE SUPPLIED WITH CONVENTIONAL 3-PIN SAFETY COVER INSERTS.
15. ALL CABLES SHALL BE LSF (LOW SMOKE FUME) TYPE.
16. DRAWING TO BE READ IN CONJUNCTION WITH SPECIFICATION.



NOTES:- FIRE ALARM SERVICES

1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE ELECTRICAL INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE ELECTRICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. CONTRACTOR TO REFER TO OTHER SERVICE DRAWINGS AND ELECTRICAL SPECIFICATION DOCUMENT FOR DETAILED EQUIPMENT SPECIFICATION.
4. THE ELECTRICAL CONTRACTOR TO ALLOW FOR THE MONITORING OF THE FIRE ALARM SYSTEM THROUGH THE INTRUDER ALARM SYSTEM.
5. ALL CABLES TO BE HIGH QUALITY GOLD FP ENHANCED, FIXED TO INDEPENDENT CONTAINMENT AND FIXED WITH SUITABLE FIRE RESISTANCE CLIPS AND TIES WHERE REQUIRED.
6. CONTRACTOR TO ALLOW FOR NEW HEADS IN BOILER ROOM AND THE RE CONNECTION INTO THE EXISTING FIRE ALARM SYSTEM.
7. ALL EQUIPMENT ASSOCIATED WITH FIRE ALARM INSTALLATION SUCH AS ADDRESSABLE SMOKE & HEAT DETECTORS, MANUAL CALL POINTS AND SOUNDERS ETC SHALL BE WIRED BACK TO ADDRESSABLE FIRE ALARM PANEL.

8. ALL SURFACE MOUNTED CABLES SHALL BE CONCEALED IN STEEL TRUNKING, LOW VOLTAGE COMPARTMENTS OR ATTACHED CABLE TRAYS, VERTICAL DROPS FROM THE CEILING TO BREAK GLASS UNITS SHALL BE GALVANIZED IN STEEL DUCTS.
8. ALL MANUAL CALL POINTS ARE TO BE OF THE FULLY RE-SETTABLE TYPE VIA KEY OPERATION.
9. ALL DOOR LOCKING DEVICES TO BE LINKED TO FIRE ALARM AND BE DE-ACTIVATED IN THE EVENT OF A FIRE.
10. MANUAL CALL POINTS UNITS SHALL BE INSTALLED BETWEEN 900mm AND 1200mm A.F.F.L. AND SHALL BE LOCATED IN EASILY ACCESSIBLE, WELL ILLUMINATED AND CONSPICUOUS POSITIONS FREE FROM OBSTRUCTION. ALL CALL POINTS SHALL HAVE PROTECTIVE COVERS.
11. ALL AUDIBLE WARNING DEVICES SHOULD HAVE A SIMILAR SOUND AND BE DISTINCT FROM ANY OTHER AUDIBLE ALARMS.
12. THE CONTRACTOR SHALL ENSURE THAT ALL VOIDS GREATER THAN 800mm DEPTH SHALL BE COVERED BY ADEQUATE DETECTION TO ENSURE FULL COMPLIANCE WITH IS3218:2009.
13. ALL CABLES SHALL BE LSF (LOW SMOKE FUME) TYPE.



S.D.B. PROPOSED SUB DISTRIBUTION BOARD LOCATION – TO BE WIRED BACK TO MDB.

MCC MECHANICAL CONTROL PANEL (MCC)

13A TWIN SWITCHED SURFACE MOUNTED SOCKET OUTLET C/W PART M COMPLIANT SOCKET OUTLET, METALCLAD METALLIC POWDER COATED FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT MATERIAL SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN C/W NEON LIGHT.

13A SWITCHED FUSED SPUR OUTLET- (PRESSURISATION SET) – MK METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN C/W NEON LIGHT.

13A SWITCHED FUSED SPUR OUTLET- (SHUNT PUMP) – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN C/W NEON LIGHT.

13A SWITCHED FUSED SPUR OUTLET- (CIRCULATING PUMP) – MK METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN C/W NEON LIGHT.

EA SWITCHED FUSED SPUR OUTLET- (BOILER) – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN C/W NEON LIGHT.

13A SWITCHED FUSED SPUR OUTLET- (OIL FILLED ELECTRICAL RADIATOR) – MK METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN C/W NEON LIGHT.

13A SWITCHED FUSED SPUR OUTLET (MOTORIZE VALVE) – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS C/W NEON LIGHT.

32A 3 PHASE SURFACE SOCKET OUTLET – (CIRCULATING PUMP) – TOUGH AND IMPACT RESISTANT, GOOD CHEMICAL RESISTANCE, SURFACE BACK BOX WITHOUT KNOCKOUTS – IP67.

DOUBLE DATA POINT CAT 6A CABLE – 2 No. RJ45 TO BE WIRED IN SEPARATE CONDUIT TO MDF (Cat6a SHIELDED TWISTED PAIR (STP)).

METERS (Mains Water, Cold Water Supply Gas etc.) TO BE WIRED IN SEPARATE CONTROL SCREEN CABLES TO MECHANICAL CONTROL PANEL

GAS SAFETY KNOCK OFF POINT.

GAS PRESSURE PROVING SYSTEM PANEL C/W KEY OPERATED EMERGENCY KNOCK OFF.

DUOMO CO2MC WALL MOUNTED CO2 SENSOR, THREE COLOUR (GREEN/YELLOW/RED) LCD BACKLIGHT INDICATING VENTILATION REQUIREMENT BASED ON CO2 MEASUREMENT

SOLENOID VALVE

EXTERNAL FROST THERMOSTAT.

EXTERNAL SENSOR.

CONTRACTORS TO REVIEW SELECTION OF EQUIPMENT AND BEST LOCATIONS PROPOSED FOR INSTALLATION ON SITE.

ANY SERVICES THAT PENETRATE FIRE RATED CONSTRUCTION MUST BE FIRE STOPPED

CONTRACTOR TO COMPLY WITH AND INSTALL TO THE NEW NATIONAL RULES AND REGULATIONS FOR ELECTRICAL INSTALLATIONS I.S. 10101:2020

CONTRACTOR TO ALLOW FOR ALL EXISTING SERVICES TO BE TERMINATED AND STRIPPED OUT OR MADE SAFE, WHILE ENSURING SERVICES TO THE MAIN SCHOOL AND PE HALL ARE MAINTAINED

CONTRACTOR TO ENSURE THAT THE BMS OR SEQUENCE CONTROLS MANAGE THE HEATING SYSTEM OPERATION AND TIMINGS AND DHW. MOTORISED CONTROL ISOLATION VALVE PER BOILER (CONTROLLED BY NAVISTERM CONTROLLER) TO PREVENT FLOW THROUGH NON FIRING BOILERS. VARIABLE SPEED PRIMARY PUMP CONTROLLED BY SEQUENCE OR BMS.

THORN AQUAFORCE II LED / AQUAF2 LED 6400 HFI L840 AN IP65, DUST AND MOISTURE RESISTANT LED LUMINAIRE. ELECTRONIC, DALI DIMMABLE. CLASS I ELECTRICAL. CANOPY: LIGHT GREY POLYCARBONATE. DIFFUSER: POLYCARBONATE WITH LINEAR PRISMS. TOGGLES: STAINLESS STEEL. FOR SURFACE OR SUSPENDED MOUNTING. QUICK-FIX BRACKETS SUPPLIED FOR SURFACE MOUNTING. MOUNTING KITS FOR CONDUIT, CHAIN SUSPENSION AND CATENARY SUSPENSION ARE AVAILABLE AS ACCESSORIES. COMPLETE WITH 4000K LED.

ANSELL ASTRO CCT2 DALI MICROWAVE SENSOR EMERGENCY FITTING IN BLACK, A ROBUST CEILING/WALL MOUNTED MULTI PURPOSE LED SQUARE BULKHEAD LUMINAIRE. 3 HOUR EMERGENCY OUTPUT DURATION, BODY: POLYCARBONATE. IP65, IK08. COMPLETE WITH 3000K AND 4000K CCT.

WALL OR CEILING MOUNTED 3 HOUR MAINTAINED EMERGENCY LED EXIT BOX ADDRESSABLE TEST IF CONNECTED TO KNX, 50,000 HOUR LIFE TO L70 (70% OF INITIAL OUTPUT) IP40, CLASS I ELECTRICAL. BODY IN POLYCARBONATE, FINISHED METALLIC SILVER. DIFFUSER IN POLYCARBONATE.

VENTILUX OPTIC LED OPN3/LED/ES/DALI ESCAPE ROUTE NON-MENTAINÉ SELF-CONTAINED – (ESCAPE ROUTES) HIGH PERFORMANCE LED SELF CONTAINED EMERGENCY LUMINAIRE WITH 3X1 W LED TO GIVE MINIMUM 300 LUMEN OUTPUT WITH REMOTE GEAR CAPABLE OF INSTALLATION THROUGH LUMINAIRE CEILING CUT-OUT, MINIMUM 5 YEAR WARRANTY , BSI APPROVAL REQUIRED AS PER VENTILUX OPTIC OPEN PLAN/ESCAPE ROUTE.

PULSE SWITCHING – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN.

ONE WAY PULSE SWITCHING – TIME DELAY SWITCH – METALCLAD METALLIC POWDER PAINT FINISH CORROSION AND SCRATCH RESISTANT, HIGH IMPACT RESISTANT, SURFACE BACK BOX WITHOUT KNOCKOUTS, STYLISH CURVED DESIGN.

ADDRESSABLE FIXED TEMPERATURE HEAT DETECTOR. C/W SOUNDER CONNECTED BACK TO MAIN FIRE ALARM PANEL

MANUAL CALL POINT – BETWEEN 900mm AND 1200mm A.F.F.L. C/W CLIP-ON COVER

NOTES:- LIGHTING SERVICES

1. UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE ELECTRICAL INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
2. CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE ELECTRICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
3. CONTRACTOR TO REFER TO ELECTRICAL SPECIFICATION DOCUMENT FOR DETAILED EQUIPMENT SPECIFICATION.
4. ALL EMERGENCY LIGHTING TO BE WIRED BACK TO AUTOMATIC TEST SYSTEM (ATS) LOCATED AT THE MAIN DISTRIBUTION BOARD ON GROUND FLOOR.
5. ALL EXTERNAL LIGHTING TO BE WIRED THROUGH PHOTOCELL, TIMECLOCK AND OVER-RIDE SWITCH AT THE MAIN DISTRIBUTION BOARD.
6. ALL SURFACE RUN CABLES SHALL BE RUN IN STEEL CONDUIT.
7. THE CONTRACTOR SHALL PROVIDE SAMPLES OF ALL LUMINAIRES TO THE EMPLOYER'S REPRESENTATIVE FOR APPROVAL PRIOR TO ORDERING.
8. THE LIGHTING INSTALLATION IS NOT TO BE USED FOR WORKING ILLUMINANCE DURING THE CONSTRUCTION PERIOD.
9. PROTECTIVE COVERING SHALL REMAIN ON ALL LUMINAIRES UNTIL IMMEDIATELY PRIOR TO HAND-OVER.
10. PROPOSED EXTERNAL LIGHT FITTINGS TO BE REVIEWED BY ENGINEER FOR APPROVAL

T2	RE ISSUED FOR TENDER	23.10.26	P08	JG
T1	ISSUED FOR TENDER	23.03.26	P08	JG
Issue	REVISION	DATE	BY	CHKD.

Figured dimensions only should be taken from this drawing. All contractors must visit the site and be responsible for taking and checking all dimensions that relate to this work

Matt O'Mahony & Associates Engineering and Project Consultants. 8 Sidney Place, Wellington Rd., Cork TEL: (021) 4508364 FAX: (021) 4509796 EMAIL: email@mattomahony.ie			
Job	ST. BROGANS COLLEGE BANDON, CO. CORK		
Client	ST. BROGANS COLLEGE		
Drawing	ELECTRICAL SERVICES HEATING CENTER POWER & LIGHTING. GROUND FLOOR		
Job No.	E25/2652	Scale	1:500A1
Dr. No.	E1	Cad ref.	2652_St. Brogans.dwg
Drawn	PAUL O'BRIEN	Date	FEB 2026
Checked	JOHN GEANEY	 