

EXISTING LTHW GAS SERVICES NOTES:

THE MECHANICAL CONTRACTOR SHALL ALLOW FOR ALL NECESSARY MODIFICATIONS TO THE EXISTING GAS SERVICES INFRASTRUCTURE AS REQUIRED TO FACILITATE THE PROPOSED WORKS.

ALL PROPOSED MODIFICATIONS TO THE EXISTING GAS SERVICES INFRASTRUCTURE SHALL BE REVIEWED AND AGREED WITH THE BUILDING SERVICES ENGINEER PRIOR TO COMMENCEMENT OF WORKS.

THE FULL EXTENT OF THE EXISTING GAS SERVICES INSTALLATION IS NOT FULLY INDICATED ON THIS DRAWING. ALL EXISTING GAS SERVICES SHOWN SHALL BE VERIFIED ON SITE BY THE MECHANICAL CONTRACTOR. IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO UNDERTAKE A COMPREHENSIVE SITE SURVEY TO TRACE, IDENTIFY AND CONFIRM ALL EXISTING GAS SERVICES THAT MAY BE AFFECTED BY THE PROPOSED WORKS.

THE MECHANICAL CONTRACTOR SHALL ALLOW FOR DE-GASSING/PURGING THE EXISTING GAS INSTALLATION AS REQUIRED TO FACILITATE THE WORKS, TOGETHER WITH SUBSEQUENT RE-GASSING, PURGING AND TESTING OF THE SYSTEM UPON COMPLETION.

EXISTING GAS SERVICES INFRASTRUCTURE WITHIN THE AREAS OF WORK THAT ARE TO BE RETAINED SHALL BE ADEQUATELY PROTECTED THROUGHOUT THE DURATION OF THE WORKS.

THE SCHOOL AUTHORITY SHALL BE ADVISED THAT GAS SERVICES MAY BE TEMPORARILY UNAVAILABLE IN AREAS OF THE BUILDING OUTSIDE THE PRINCIPAL AREAS OF WORK. THE MECHANICAL CONTRACTOR SHALL ALLOW FOR OUT-OF-HOURS WORKING WHERE NECESSARY TO MINIMISE DISRUPTION TO GAS SERVICES DURING NORMAL OFFICE HOURS.

TENDERING CONTRACTORS ARE STRONGLY ADVISED TO VISIT SITE PRIOR TO SUBMISSION OF THEIR TENDER TO SURVEY THE AREAS OF WORK AND FAMILIARISE THEMSELVES WITH THE SCOPE AND EXTENT OF THE WORKS DESCRIBED ABOVE, TOGETHER WITH ALL OTHER WORKS INDICATED ON THIS AND THE ASSOCIATED DRAWINGS. TENDER SUBMISSIONS SHALL BE DEEMED TO HAVE INCLUDED FOR ALL NECESSARY ALLOWANCES ARISING FROM THIS EXERCISE. ADDITIONAL COSTS INCURRED AS A RESULT OF A FAILURE TO UNDERTAKE A PRE-TENDER SITE VISIT WILL NOT BE ACCEPTED.

ELECTRICAL CONTAINMENT NOTES:

1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION & LAYOUT OF THE CABLE CARRIER SYSTEM WHICH SHALL INCLUDE A GALVANISED STEEL TRAY, TRUNKING & CONDUIT SYSTEM THROUGHOUT.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BENDS, TEES AND CROSS-OVERS THAT ARE REQUIRED TO MEET CURRENT ETC STANDARDS. THE ROUTES INDICATED ARE MAIN ROUTES ONLY. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL TRAY AND TRUNKING TO ENSURE MECHANICAL PROTECTION OF ALL CABLEING.
3. ALL CONTAINMENT SHALL RUN TRUE TO MAIN BUILDING LINES.
4. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR ALL FOR CHANGES OF LEVEL AND VERTICAL CONTAINMENT AS REQUIRED.
5. ALL ELECTRICAL TRUNKING/TRAY PENETRATIONS THROUGH WALLS AND FIRE COMPARTMENTS SHALL BE C/W SUITABLE INTUMESCENT PADS/PILLOWS TESTED TO BS476 PART 22.
6. PRIMARY CONTAINMENT FOR FIRE ALARM & DETECTION CABLEING SHALL BE DEDICATED GALVANISED STEEL CABLE TRAY. CABLEING 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 CABLEING (ENHANCED GRADE 120). THE MAXIMUM LENGTH OF CABLEING TO BE RUN WITHOUT CABLE TRAY SHALL BE 2.0m. VERTICAL DROPS TO WALL MOUNTED DEVICES SHALL BE CARRIED IN 25# GALVANISED STEEL CONDUITS.
7. PRIMARY CONTAINMENT FOR LV/SUB-CIRCUIT CABLEING SHALL GENERALLY BE SUITABLY SIZED GALVANISED STEEL CABLE TRUNKING. SECONDARY CONTAINMENT SHALL GENERALLY BE GALVANISED STEEL CONDUIT UNLESS INDICATED OTHERWISE.
8. PRIMARY CONTAINMENT FOR ELY/COMMS CABLEING SHALL GENERALLY BE SUITABLY SIZED GALVANISED STEEL CABLE TRAYS. SECONDARY CONTAINMENT SHALL GENERALLY BE GALVANISED STEEL CONDUIT UNLESS INDICATED OTHERWISE.
9. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR ALL NEW ELECTRICAL CONTAINMENT AS REQUIRED. HE-USE EXISTING PRIMARY ELECTRICAL CONTAINMENT WHERE SUFFICIENT CAPACITY IS AVAILABLE. OVERFILLING OF ELECTRICAL CONTAINMENT WILL NOT BE ACCEPTED - TO BE REVIEWED ON SITE PRIOR TO COMMENCEMENT OF WORKS. FINAL ROUTES OF NEW CONTAINMENT TO BE AGREED.

ELECTRICAL NOTES:

1. ELECTRICAL INSTALLATION SHALL BE INSTALLED & CERTIFIED IN ACCORDANCE WITH I.S. 10101: 2020 NATIONAL RULES FOR ELECTRICAL INSTALLATIONS.
2. ALL ELECTRICAL SERVICES INDICATED & NOTED ON THIS DRAWING ARE PART OF THE NEW INSTALLATION UNLESS CLEARLY INDICATED OTHERWISE.
3. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR POWER SUPPLY & ELECTRICAL CONNECTION TO ALL MECHANICAL ITEMS.
4. WHERE SIGNAL/CONTROL CABLES ARE ROUTED TO THEIR RESPECTIVE CONTROL PANEL PROVIDE GALVANISED STEEL TRUNKING TO ENCLOSE MULTIPLE RUNS OF CABLE.
5. SURFACE MOUNTED ELECTRICAL OUTLETS, CONNECTION UNITS, SWITCHES ETC. SHALL HAVE METALLIC FINISH WITHOUT KNOCKOUTS.
6. ALL LV CIRCUITS SHALL BE PROTECTED BY AN RCBO.
7. LV/SUB-CIRCUIT CABLEING SHALL GENERALLY BE PVC SINGLES CARRIED IN GALVANISED STEEL CONTAINMENT THROUGHOUT.

GAS SAFETY NOTES:

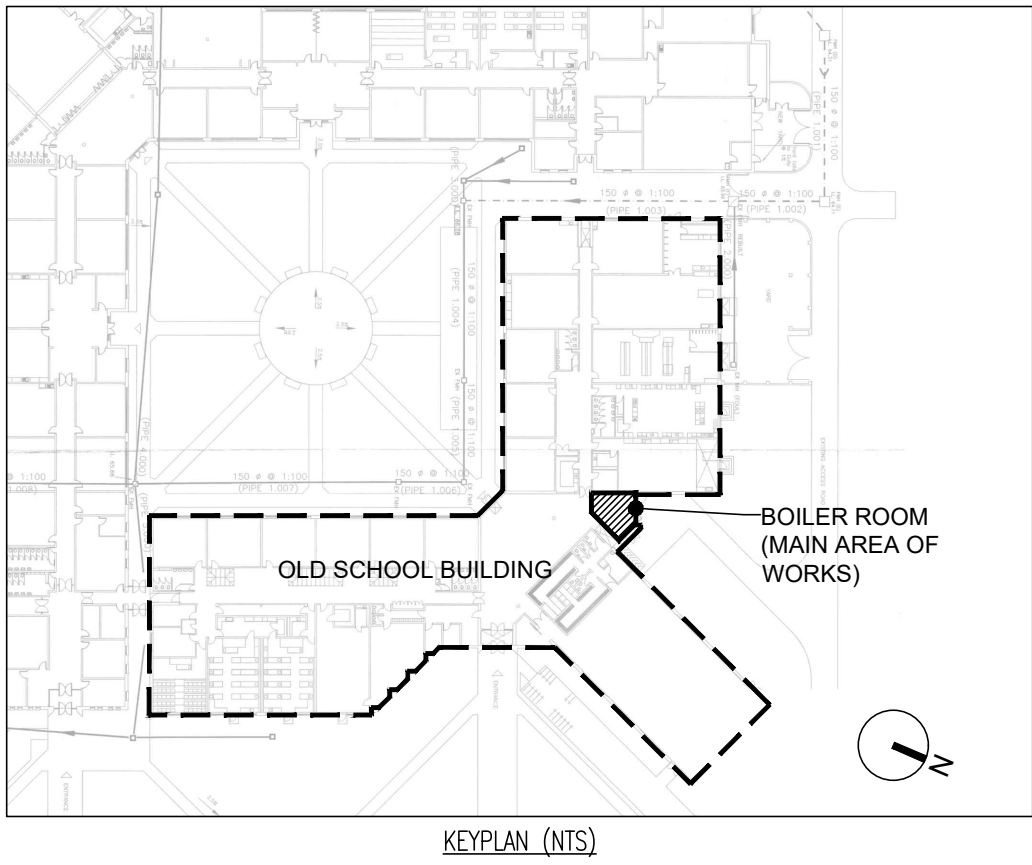
1. ALL GAS SAFETY SERVICES INDICATED & NOTED ON THIS DRAWING ARE PART OF THE NEW INSTALLATION UNLESS CLEARLY INDICATED OTHERWISE.
2. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR ALL WIRING FOR THE GAS SAFETY SYSTEMS.
3. ALL ELECTRICAL WIRING TO GAS PANELS AND ASSOCIATED GAS EQUIPMENT SHALL BE AS RECOMMENDED BY THE MANUFACTURER'S SPECIFICATIONS - TO BE WIRED IN A SEPARATE DEDICATED CONDUIT SYSTEM.
4. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL LIAISE AND ARRANGE FOR INTERFACE BETWEEN GAS SAFETY INSTALLATIONS AND ELECTRICAL INSTALLATIONS.

FIRE ALARM & DETECTION NOTES:

1. THE FIRE ALARM SYSTEM SHALL COMPLY WITH I.S. 3218:2024 (NEW WORKS).
2. 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.
3. FIRE ALARM & DETECTION CABLEING SHALL BE ENHANCED GRADE 120 AS STATED IN BS5839-1 CARRIED IN DEDICATED CONTAINMENT.

EMERGENCY LIGHTING NOTES:

1. EMERGENCY LIGHTING SHALL COMPLY WITH I.S. 3217:2023 (NEW WORKS).
2. ALL EMERGENCY LIGHTING AND ELECTRICAL SERVICES INDICATED & NOTED ON THIS DRAWING ARE PART OF THE NEW INSTALLATION UNLESS CLEARLY INDICATED OTHERWISE.
3. ALL EMERGENCY LIGHT FITTINGS, EXIT SIGNS ETC SHALL BE WIRED VIA INTERFACE UNITS AND CONTROLLED BY CENTRAL TEST UNIT ON RESPECTIVE DB.
4. SUB-CIRCUIT CABLEING SHALL GENERALLY BE PVC SINGLES CARRIED IN GALVANISED STEEL CONTAINMENT THROUGHOUT. PRIMARY CONTAINMENT SHALL GENERALLY BE SUITABLY SIZED GALVANISED STEEL CABLE TRUNKING. SECONDARY CONTAINMENT SHALL GENERALLY BE GALVANISED STEEL CONDUITS UNLESS INDICATED OTHERWISE.



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 MECHANICAL & ELECTRICAL CONTRACTORS 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 MECHANICAL & ELECTRICAL CONTRACTORS 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.

GENERAL SERVICES & SMALL POWER LEGEND:

- FUSED CONNECTION UNIT C/W NEON INDICATOR - 'UNSWITCHED' TYPE
- SINGLE PHASE & NEUTRAL ISOLATOR - RATING AS INDICATED
- THREE PHASE & NEUTRAL ISOLATOR - RATING AS INDICATED
- MOTORISED DIVERTING VALVE
- MOTORISED MIXING VALVE
- R4/5 NETWORK OUTLET - CAT 6A
- EXISTING FUSED CONNECTION UNIT - 'UNSWITCHED' TYPE
- EXISTING POWER ISOLATOR

FIRE ALARM & DETECTION LEGEND:

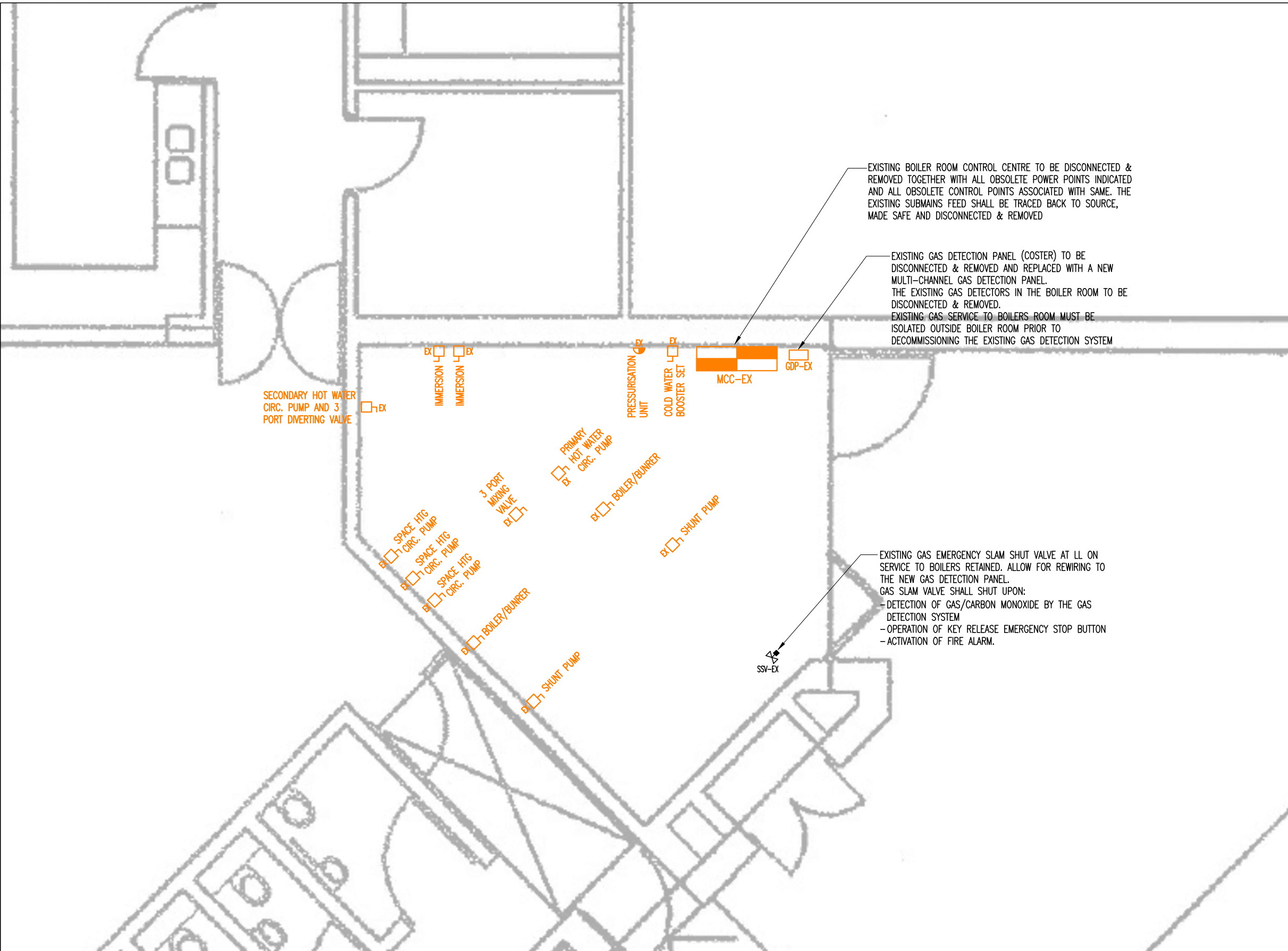
- FIRE ALARM INTERFACE UNIT

GAS SAFETY LEGEND:

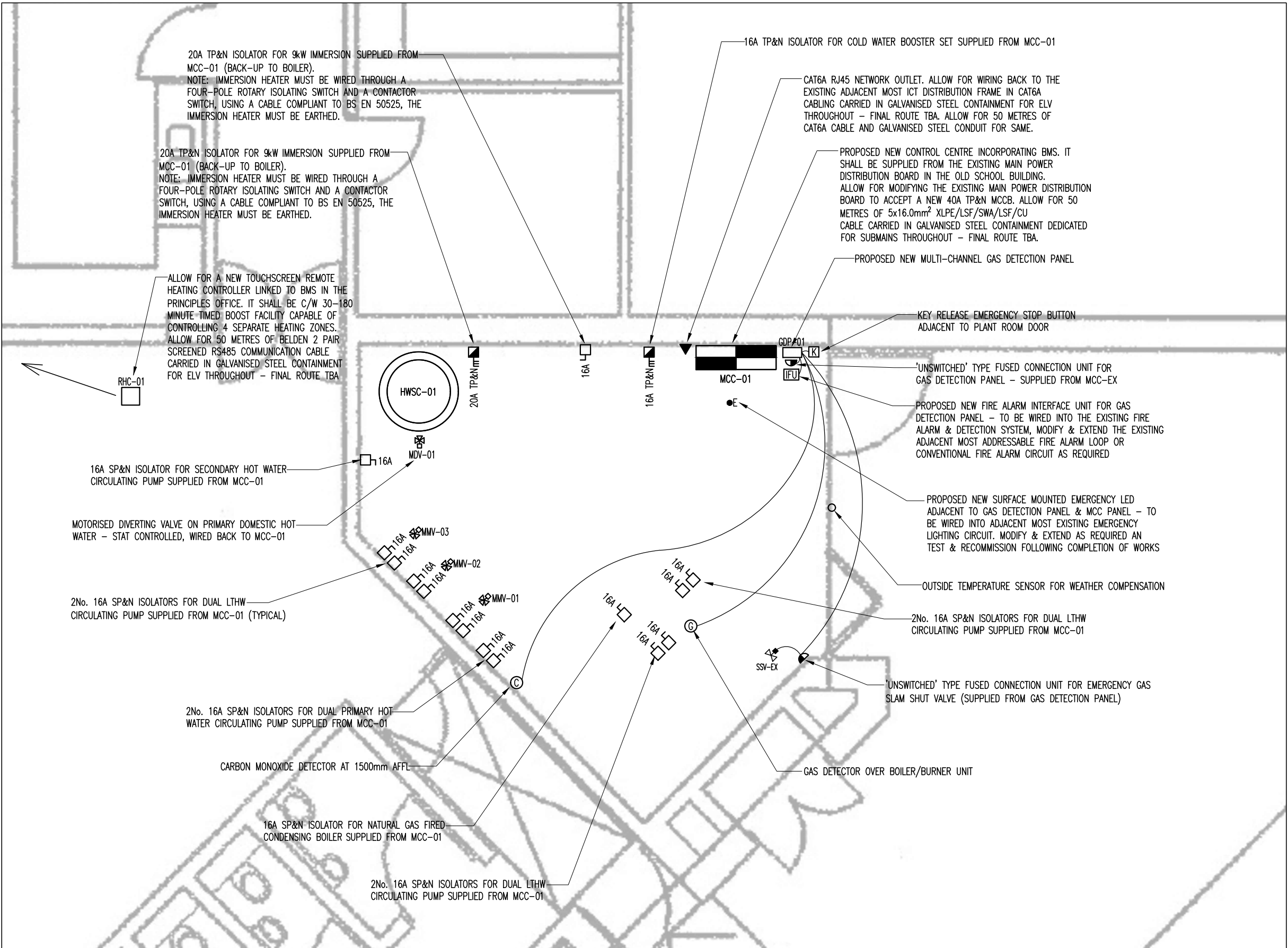
- GAS DETECTION PANEL
- GAS DETECTOR LINKED TO GAS DETECTION PANEL
- KEY RELEASE EMERGENCY STOP BUTTON LINKED TO GAS DETECTION PANEL
- CARBON MONOXIDE DETECTOR LINKED TO GAS DETECTION PANEL
- EXISTING GAS SLAM SHUT VALVE LINKED TO GAS DETECTION PANEL

EMERGENCY LIGHTING LEGEND:

- SURFACE MOUNTED EMERGENCY LED - IP65 RATED ANSELL IP65 FALCON SURFACE OR EQUIVALENT



1 EXISTING ELECTRICAL SERVICES LAYOUT
1:50 @ A1



2 PROPOSED ELECTRICAL SERVICES LAYOUT
1:50 @ A1

A	Tender Issue	23-Jun-2026	FD	JG
Revision	Description	Date	Drawn	Checked
 GEANEY ENGINEERING CONSULTANTS		STUDIO 22, WATERFORD BUSINESS PARK, CORK ROAD, WATERFORD, IRELAND. TEL: 051-879371 FAX: 051-853188 EMAIL: info@geaneyengineering.ie		
project title: Emergency Works Scheme Boiler Upgrade at Castleknock Community College Carpenterstown Road, Castleknock, Dublin 15				
drawing title: Electrical Services Layout				
scale: 1:50 @A1				
project number: 0835		drawing number: Volume A. 3.3 - EL1		