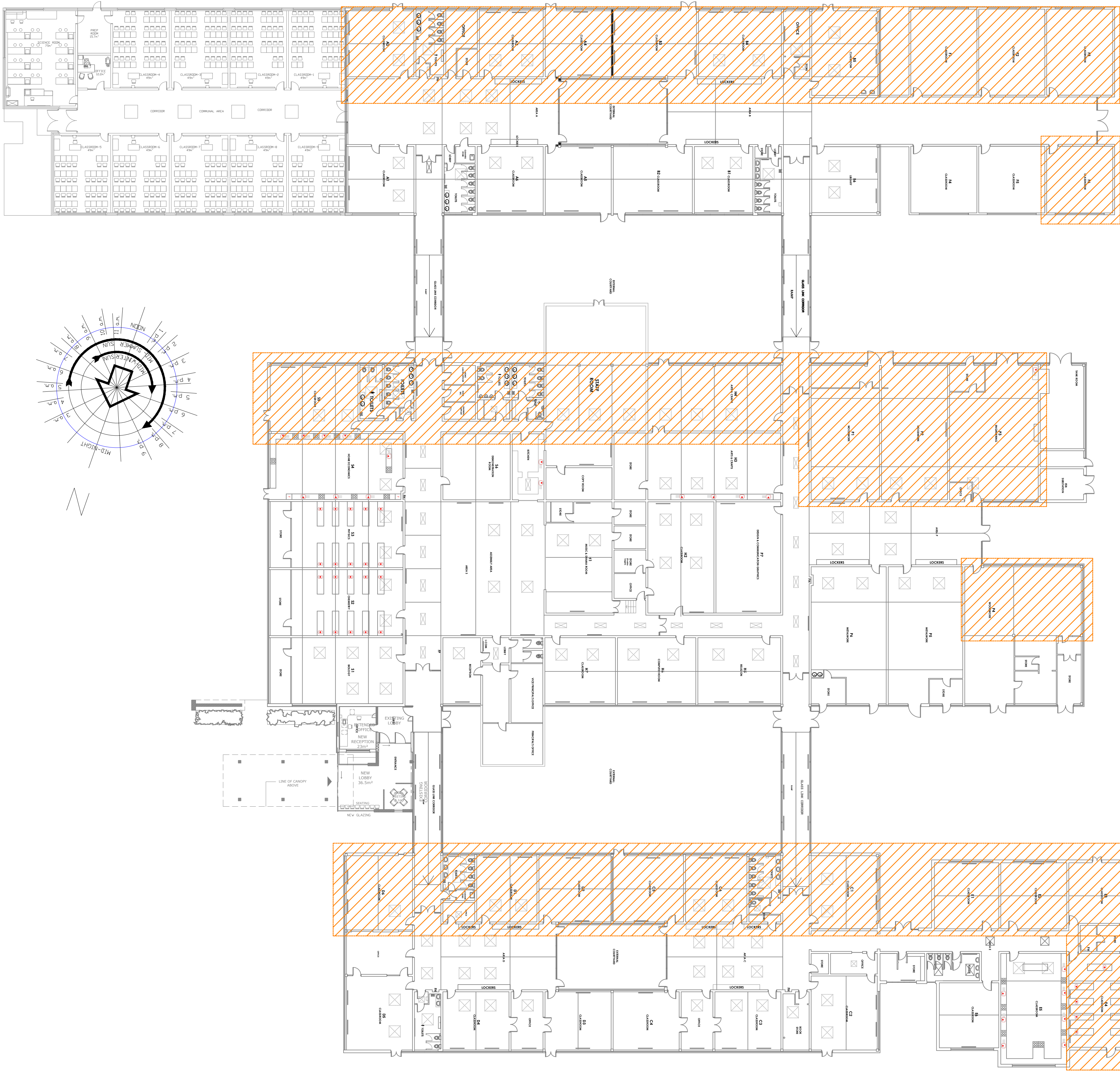




INSTALLATION OF TRVS TO SOUTH-FACING CLASSROOM RADIATORS

THERMOSTATIC RADIATOR VALVES (TRVS) SHALL BE INSTALLED TO ALL RADIATORS LOCATED WITHIN SOUTH FACING CLASSROOMS, AS IDENTIFIED BY HATCHED ZONES ON THE DRAWING. THE WORKS ARE INTENDED TO IMPROVE LOCAL TEMPERATURE CONTROL AND REDUCE OVERHEATING DUE TO SOLAR GAINS.

SCOPE OF WORKS
THE CONTRACTOR SHALL ALLOW FOR THE COMPLETE INSTALLATION OF TRVS, INCLUDING ALL ASSOCIATED LABOUR, MATERIALS, ISOLATION, REINSTATEMENT, TESTING AND COMMISSIONING. EXISTING HEATING SYSTEM OPERATION SHALL BE MAINTAINED TO ADJACENT AREAS WHEREVER PRACTICABLE.

SEQUENCE OF WORKS

PREPARATION & ISOLATION

IDENTIFY ALL RADIATORS WITHIN THE DESIGNATED HATCHED ZONES.
ISOLATE THE AFFECTED RADIATOR(S) USING LOCAL FLOW AND RETURN VALVES WHERE AVAILABLE.
WHERE LOCAL ISOLATION IS NOT POSSIBLE, DRAIN DOWN THE RELEVANT SECTION OF THE HEATING SYSTEM AS NECESSARY.

DRAIN DOWN

DRAIN THE RADIATOR OR LOCAL CIRCUIT TO A SAFE LEVEL TO ALLOW REMOVAL OF THE EXISTING VALVE.
COLLECT AND DISPOSE OF HEATING SYSTEM WATER IN ACCORDANCE WITH SITE AND ENVIRONMENTAL REQUIREMENTS.

REMOVAL OF EXISTING VALVE

REMOVE THE EXISTING MANUAL VALVE FROM THE RADIATOR FLOW CONNECTION.
INSPECT PIPEWORK AND THREADED CONNECTIONS; CLEAN AND PREPARE FOR NEW VALVE INSTALLATION.

INSTALLATION OF NEW TRV BODY

INSTALL A NEW TRV VALVE BODY TO THE RADIATOR FLOW CONNECTION, SIZED TO SUIT THE EXISTING PIPEWORK.
ENSURE CORRECT FLOW DIRECTION AND SECURE, LEAK FREE INSTALLATION.

INSTALLATION OF TRV HEAD

FIT THE TRV HEAD TO THE VALVE BODY FOLLOWING COMPLETION OF WET WORKS.
SET TRV HEAD TO THE SPECIFIED DEFAULT SETTING (OR MID RANGE UNLESS NOTED OTHERWISE).

REFILLING & VENTING

REFILL THE RADIATOR AND/OR HEATING CIRCUIT.
VENT ALL AIR FROM THE RADIATOR AND AFFECTED PIPEWORK.
REINSTATE SYSTEM PRESSURE TO DESIGN OPERATING CONDITIONS.

TESTING & COMMISSIONING

CHECK ALL NEW VALVES FOR LEAKS.
VERIFY TRV OPERATION AND CORRECT RESPONSE TO TEMPERATURE CHANGE.
BALANCE RADIATORS IF DISTURBED DURING THE WORKS.

REINSTATEMENT

REINSTATE ANY FINISHES DISTURBED DURING THE WORKS.
REMOVE ALL WASTE MATERIALS FROM SITE.

GENERAL

ALL TRVS SHALL BE SUITABLE FOR LPHW HEATING SYSTEMS AND COMPATIBLE WITH EXISTING RADIATORS.
WORKS SHALL BE CARRIED OUT DURING AGREED SHUTDOWN PERIODS WHERE REQUIRED TO AVOID DISRUPTION TO TEACHING SPACES.
INSTALLATION SHALL COMPLY WITH CURRENT STANDARDS, MANUFACTURER'S INSTRUCTIONS AND PROJECT SPECIFICATIONS.

ROOMS TO BE FITTED WITH TRV
HIGHLIGHTED WITHIN HATCHED ZONE

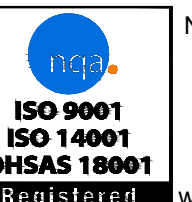
NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DRAWINGS.
- THE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATING THE MECHANICAL SERVICES SO AS TO ENSURE A NEAT AND ACCESSIBLE INSTALLATION
- REFER TO OTHER RELEVANT STRUCTURE DRAWINGS INCLUDING ARCHITECTURAL DETAILED ROOM LAYOUTS.
- CONTRACTOR SHALL TAKE FULL COGNISANCE OF THE SAFETY AND HEALTH PLAN, AND PROVIDE FULL METHOD STATEMENTS FOR ALL HAZARDOUS OPERATIONS LISTED THEREIN. METHOD STATEMENTS SHALL ALSO BE PROVIDED FOR ANY HAZARDOUS OPERATION WHICH BECOMES APPARENT THROUGHOUT THE CONSTRUCTION PHASE.
- ALL HEATING PIPEWORK SHALL BE MEDIUM GRADE STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH PART 3 OF THE STANDARD SPECIFICATION.
- WHERE PIPEWORK IS ROUTED WITHIN THE FLOOR SCREED, PEX PIPE-IN-PIPE SHALL BE USED AS DETAILED IN PART 3: STANDARD SPECIFICATION. NO JOINTS SHALL BE INSTALLED WITHIN UNDERGROUND PIPEWORK.
- ALL PIPEWORK IN CEILING VOIDS, FLOOR DUCTS AND RISING SERVICES DUCTS SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATION.
- WHERE PIPEWORK PASSES THROUGH WALLS OR FLOOR SLABS, SLEEVES MANUFACTURED FROM SIMILAR MATERIAL SHALL BE PROVIDED.
- AIR VENTS SHALL BE PROVIDED ON ALL HIGH POINTS IN THE PIPEWORK INSTALLATION TO FACILITATE VENTING OF THE SYSTEM.
- DRAIN VALVES SHALL BE PROVIDED ON ALL LOW POINTS OF THE INSTALLATION TO FACILITATE COMPLETE DRAINING DOWN OF THE SYSTEM.
- ALL RADIATORS SHALL BE PROVIDED WITH 2no. LOCKSHIELD VALVE ON THE FLOW AND RETURN CONNECTIONS.
- SYSTEM TO BE COMPLETE WITH NECESSARY CORROSION INHIBITOR AS DETAILED BY MANUFACTURER.
- ALL HEATING PIPEWORK TO BE HYDRAULICALLY TESTED TO A PRESSURE OF 7 BAR FOR A PERIOD OF TWO HOURS. TEST TO WITNESSED BY THE ENGINEER (TEST CERTIFICATE TO BE PROVIDED BY THE CONTRACTOR).
- ALL LPHW PIPEWORK PASSING THROUGH FIRE COMPARTMENT WALLS & FLOORS TO BE FIRE DAMPED, STOPPED & SLEVED BY THE CONTRACTOR.
- ANCHOR POINTS, GUIDES & EXPANSION LOOPS TO BE PROVIDED WHERE REQUIRED.

LEGEND

- PIPEWORK IN CEILING VOID
- PIPEWORK BURIED IN FLOOR SCREED
- PIPEWORK AT LOW LEVEL EXPOSED IN SPACE
- PIPEWORK AT HIGH LEVEL EXPOSED IN SPACE
- ISOLATION VALVE
- COMMISSIONING SET
- DOUBLE REGULATING VALVE
- 3 PORT CONTROL VALVE
- BMS TEMPERATURE STAT
- ADJUSTABLE ROOM THERMOSTAT
- TRV- THERMOSTATIC RADIATOR VALVE
- EXPANSION BELLOWS
- C/V CEILING VOID
- H/L HIGH LEVEL

TENDER

REV	DESCRIPTION	DRN	CKD	DATE
ISSUE	TENDER			
  NATURALLY INNOVATIVE CONSULTING ENGINEERS Belfast +44 (0)28 90331700 Castleblayney +353 (0)42 9749570 www.semplemckillop.com admin@semplemckillop.com				
PROJECT TITLE ST OLIVERS CC DROGHEDA EWS2026				
DRAWING TITLE HEATING INSTALLATION				
DRAWING REFERENCE 3279-SMK-ZZ-LL-DR-M-5601			DRN CMG	SCALE A1 1:100