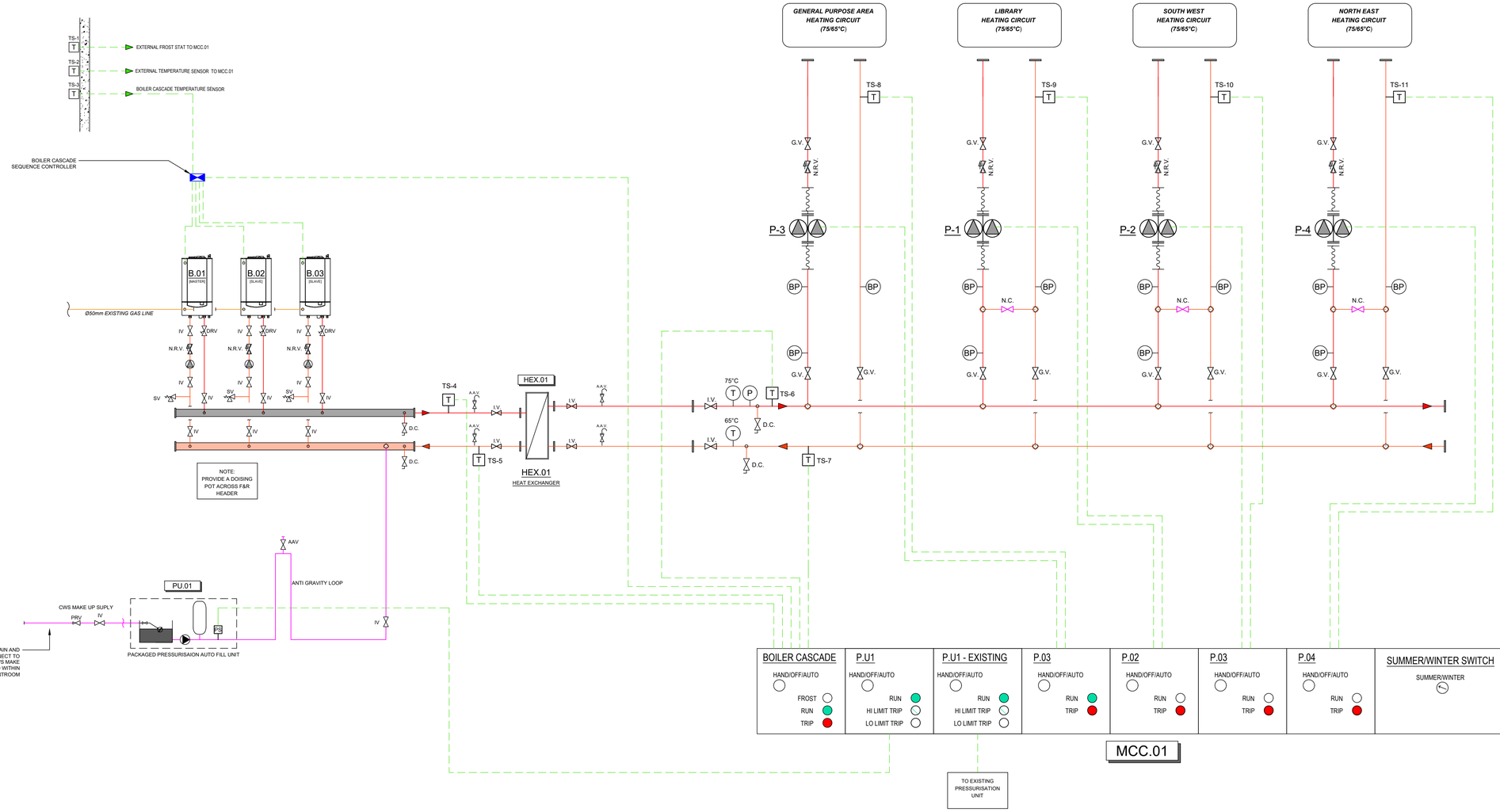
THIS DRAWING IS THE PROPERTY OF ENERJ BUILDING SERVICES ENGINEERING & SHALL NOT BE USED, REPRODUCED OR DISCLOSED TO ANYONE WITHOUT PRIOR WRITTEN PERMISSION OF ENERJ BUILDING SERVICES ENGINEERING & SHALL BE RETURNED UPON REQUEST.

GENERAL NOTES

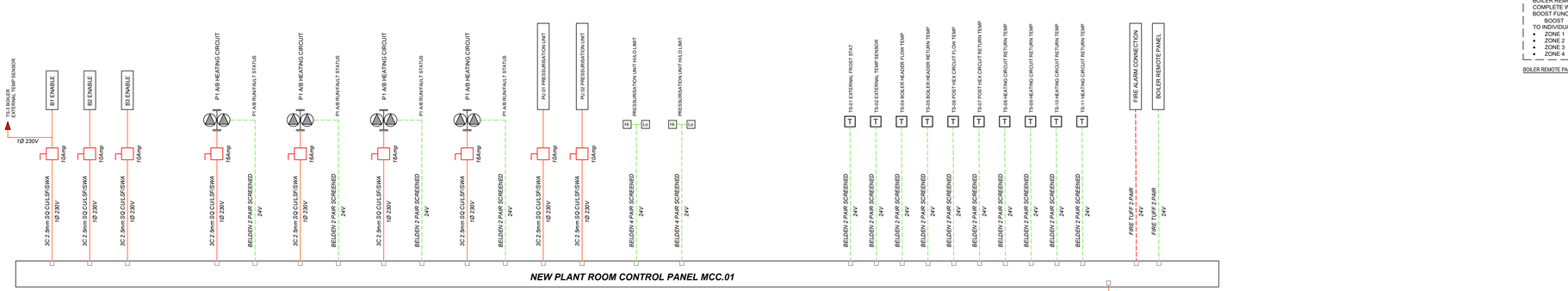
1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE ENERJ SPECIFICATION TOGETHER WITH THE REQUIREMENTS AND BUILDING REGULATIONS OF ALL STATUTORY AUTHORITIES, STANDARDS AND CODES RELEVANT TO THE WORKS.
2. THE MECHANICAL CONTRACTOR SHALL CO-ORDINATE ALL SERVICES FULLY WITH ALL TRADES BEFORE COMMENCING WORK.
3. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS SHALL BE TAKEN ON SITE.
4. THE MECHANICAL CONTRACTOR 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 MILLIMETERS, UNLESS STATED OTHERWISE.

HEATING SERVICES NOTES

1. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE HEATING SYSTEM COMPLETE WITH ALL VALVES, CONTROLS MAGNETIC FILTRATION AND SYSTEM EXPANSION VESSEL TO FORM A COMPLETE SYSTEM.
2. LOCATIONS OF EQUIPMENT AND PIPEWORK SHOWN ARE DIAGRAMMATIC ONLY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, EXISTING SERVICES, AND BUILDING WORK.
3. UNLESS OTHERWISE STATED ALL ITEMS OF PLANT PIPEWORK, VALVES ETC, SHALL BE SUPPLIED & INSTALLED UNDER THE MECHANICAL CONTRACT.
4. THE CONTRACTOR MUST ATTEND SITE TO VERIFY THE EXISTING INSTALLATIONS, TIE INS ,DRAIN DOWNS ETC. LACK OF KNOWLEDGE OF EXISTING INSTALLATION WILL NOT BE ACCEPTED FOR ANY COST IMPLICATIONS,
5. MECHANIGAL CONTRACTOR WILL VERIFY BY ON SITE INSPECTION AND WITH ASSISTANCE OF CONTROL SPECIALIST. THE EXISTING CONTROLS POINTS LIST SERVED FROM EXISTING MCC PANEL SHALL BE RETAINED.
6. THE MECHANICAL CONTRACTOR SHALL VERIFY THE ACTUAL WORKING PRESSURE OF THE SYSTEM. THE NEW INSTALLATION SHALL NOT EXCEED THIS OPERATIONAL PRESSURE.
7. ALL MECHANICAL AND ELECTRICAL MODIFICATIONS TO BE AGREED WITH ENGINEER AND IBTS FACILITIES TECHNICAL SERVICES PRIOR TO COMMENCING ON SITE.
8. ALL SHUT DOWNS, TIE INS AT WILL REQUIRED RAMS TWO WEEKS IN ADVANCE TO FACILITATE APPROVALS PRIOR TO WORK COMMENCING ON SITE.
9. ALL PIPEWORK WITHIN THE BOILER PLANTROOM SHALL BE INSULATED & CLADDED IN STUCCO ALUMINUM TO MATCH EXISTING.
10. ALL AUTOMATIC AIR VENTS TO BE SUPPLIED COMPLETE WITH INLINE LEVER ACTION ISOLATION
11. MECHANICAL CONTRACTOR TO VISIT SITE AND ASCERTAIN EXACT SYSTEM PRESSURE FOR LPHW HEATING SYSTEM.
12. NEW HEATING SYSTEM TO OPERATE WITHIN SAME PRESSURE PROFILE.
13. ALL VALVES ABOVE 32Ø MUST BE INSULATED WITH PROPRIETARY JACKETS WITH VELCRO FIXINGS.
14. ALL PIPEWORK SIZES NOTED ARE INTERNAL PIPE DIAMETER.
15. TESTING, COMMISSIONING AND BALANCING OF THE INSTALLATION IN ACCORDANCE WITH STANDARD SPECIFICATION "TESTING AND COMMISSIONING".
16. PROVIDE LABELS ON EQUIPMENT INCLUDING CONTROLLERS, PUSH BUTTONS, TEMPERATURE SENSORS AND SIMILAR EQUIPMENT. THE LABEL SHALL BE A NON TARNISHABLE CAST OR ENGRAVED LABEL OF APPROVED SIZE, WORDING AND DESIGN, CLEARLY INDICATING THE FUNCTION AND/OR CIRCUIT DESIGNATION OF THE COMPONENT CONCERNED AND SECURLEY FIXED.
17. PROVIDE AUTOMATIC AIR VENTS ON ALL HIGH POINTS ON PIPEWORK SYSTEMS



1 NEW HEATING SYSTEM SCHEMAITC
M.102 NTS



2 NEW HEATING SYSTEM BMS POINTS LIST
M.102 NTS

BOILER REMOTE PANEL

BOILER REMOTE PANEL WITH 4 ZONES
COMPLETE WITH TIME CLOCK & WEEKLY PROGRAMMER
BOOST FUNCTION OFFERING 1 HOUR /2 HOUR / 3 HOURS HEATING BOOST
TO INDIVIDUAL ZONES
- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4

BOILER REMOTE PANEL LOCATED IN MAIN RECEPTION OFFICE

REV	DESCRIPTION	DRN	ENG	APP	DATE
T1	ISSUED FOR TENDER	JH	JH	JH	26.08.26

EnerJ
BUILDING SERVICES ENGINEERING AND BUILDING PERFORMANCE
T +353 86 028 6302 E johnhayes@enerj.ie
T +353 87 933 9298 E johnhssett@enerj.ie

PROJECT
COLÁISTE MHUIRE
BOILER UPGRADE EMERGENCY WORKS

CLIENT
KILKENNY AND CARLOW EDUCATION AND TRAINING BOARD

kcetb Bord Oideachais agus Oiliúna Chill Chainnigh agus Cheatharlach Kilkenny and Carlow Education and Training Board

DRAWING TITLE
MECHANICAL SERVICES
LPHW BOILER SYSTEM
NEW HEATING SYSTEM SCHEMATIC

SCALE	SHEET SIZE	PROJECT No.	DRAWING No.	REV.
1:50	A1	26-020	M-102	T1