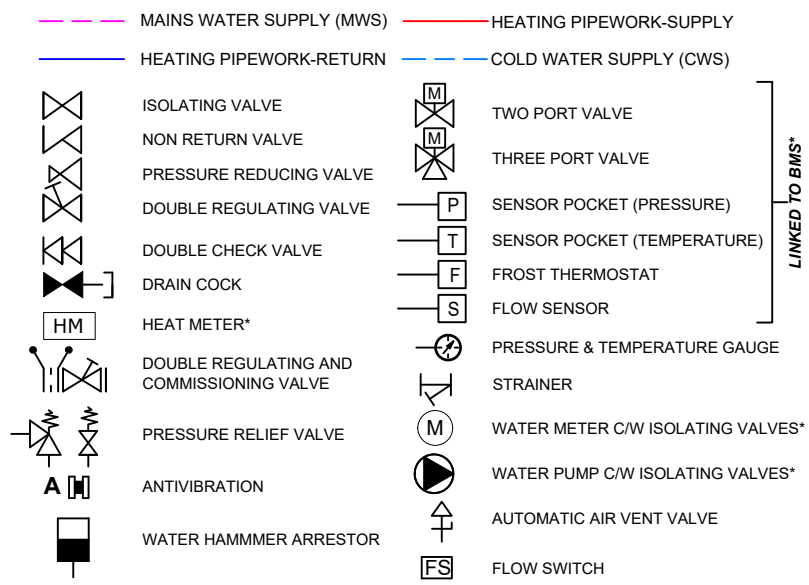
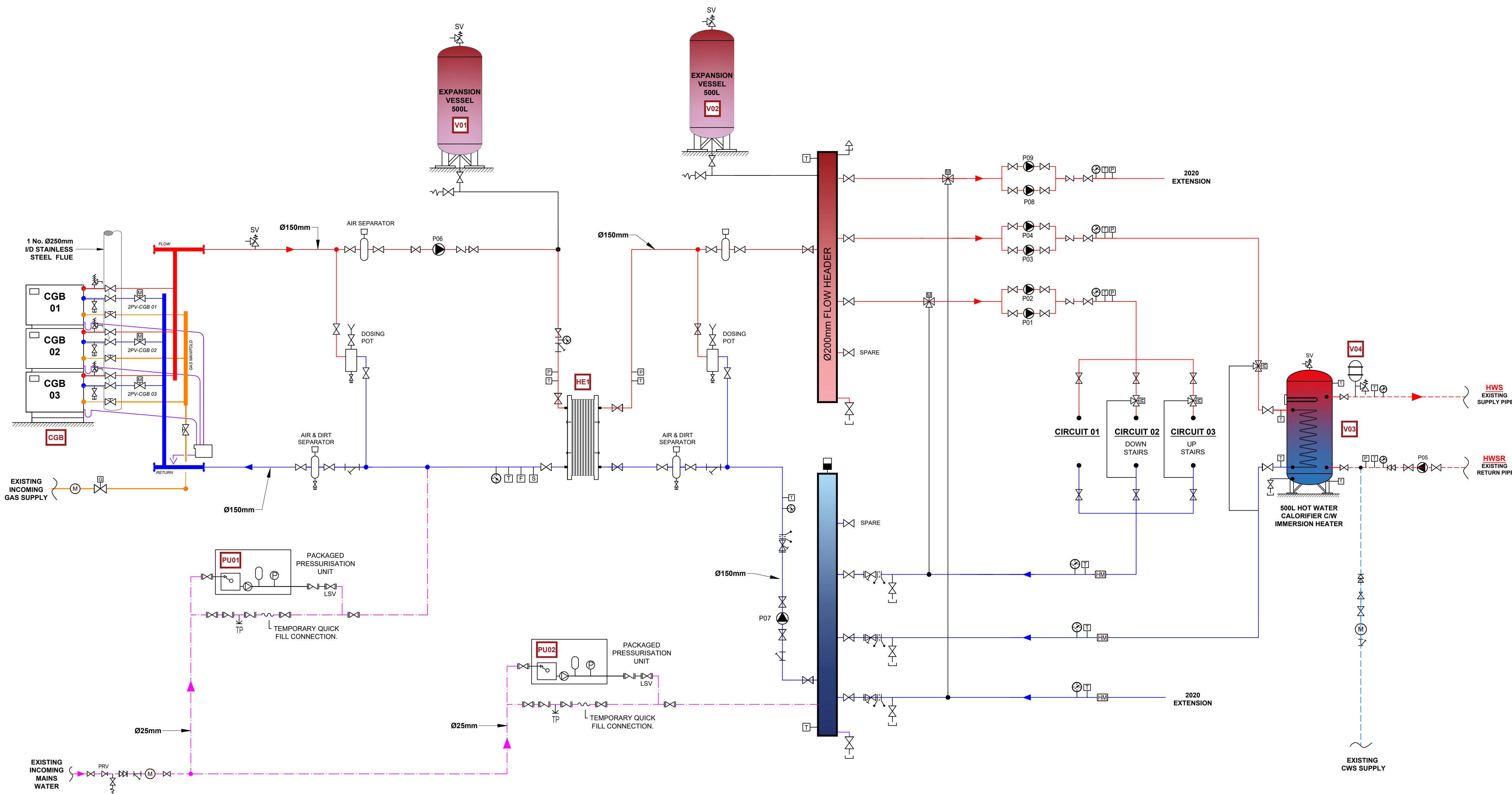
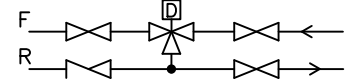
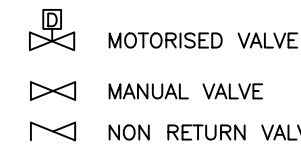


LEGEND



TYPICAL DETAIL:-

3 PORT MOTORISED VALVE



BOILER HOUSE SCHEMATIC

REF.	DESCRIPTION BOILER HOUSE
V1 & V2	LTHW STEEL CONSTRUCTION 500 LITERS EXPANSION VESSEL
V3	500L DSFI STAINLESS STEEL HOT WATER STORAGE VESSEL C/W 6KW IMMERSION HEATER OR EQUIVALENT
V4	LTHW STEEL CONSTRUCTION 50 LITERS EXPANSION VESSEL
GB 01 GB 02 GB 03	3 NO. 147kW COMPACT FLOOR STANDING GAS CONDENSING BOILERS (HAMWORTHY WESSEX MODUMAX MK3 OR EQUIVALENT TO ENGINEERS APPROVAL)
HE1	450 KW PLATE HEAT EXCHANGER, ALFA LAVAL OR EQUAL TO ENGINEERS APPROVAL
PU1 PU2	PACKAGED PRESSURIZATION SET C/W BREAK TANK, SINGLE PHASE PUMP UNIT AND BMS CONNECTION
P01 P02	(EXISTING VARIABLE SPEED PUMP IS AN EURAMO - C - 1470 3PH PUMP) CONTRACTOR TO REVIEW AND REPLACE WITH MATCHING FLOW RATE AND HEAD AS REQUIRED.
P03 P04	(EXISTING VARIABLE SPEED PUMP IS AN EURAMO - C - 1030 1PH PUMP) CONTRACTOR TO REVIEW AND REPLACE WITH MATCHING FLOW RATE AND HEAD AS REQUIRED.
P05	(EXISTING VARIABLE SPEED PUMP IS A GRUNDFOS MAGNA 3 25-120N 1PH PUMP) CONTRACTOR TO REVIEW AND REPLACE WITH MATCHING FLOW RATE AND HEAD AS REQUIRED.
P06	VARIABLE SPEED SHUNT PUMP, GRUNDFOS 1PH PUMP FLOW RATE - 3.5L/S, HEAD - 5.4M HEAD, PUMP HOUSING CAST IRON
P07	VARIABLE SPEED SHUNT PUMP, GRUNDFOS 1PH PUMP FLOW RATE - 3.5L/S, HEAD - 5.4M HEAD, PUMP HOUSING CAST IRON

- UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO ORDER ANY MATERIALS FOR THE MECHANICAL SERVICES INSTALLATION BEFORE AGREEING QUANTITY AND MANUFACTURE WITH THE CONSULTING ENGINEER.
- CONTRACTOR TO AGREE FINAL LOCATIONS OF ALL ITEMS IN THE MECHANICAL SERVICES INSTALLATION WITH THE CONSULTING ENGINEER BEFORE INSTALLING SAME.
- DRAWING TO BE READ IN CONJUNCTION WITH OTHER SERVICE DRAWINGS AND MECHANICAL SPECIFICATION.
- ALL FLUES FROM BOILERS TO BE TWIN WALL INSULATED FLUES, CORRECTLY INSTALLED TO MANUFACTURES RECOMMENDATIONS C/W DRAINS VENTS AND SUPPORT BRACKETS WHERE REQUIRED.
- ALL PLANT ITEMS TO BE MOUNTED ON SUITABLE SIZE OF PLINTHS WITHIN THE BOILER HOUSE AND ALL PIPES TO BE FULLY INSULATED AND LABELED.
- ALL VALVES ABOVE 320 MUST BE INSULATED WITH PROPRIETARY JACKETS WITH VELCRO FIXINGS.
- ALL METERS MUST BE CLEARLY LABELED WITH THEIR FUNCTION.

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

ANY SERVICES THAT PENETRATE FIRE RATED CONSTRUCTION MUST BE FIRE STOPPED

CONTRACTORS TO ENSURE THAT ALL EXISTING MECHANICAL AND ELECTRICAL SERVICES ARE CAREFULLY REMOVED AND REMAINING REDUNDANT ITEMS MADE SAFE

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 NAVISTERN CONTROLLER) TO PREVENT FLOW THROUGH NON FIRING BOILERS. VARIABLE SPEED PRIMARY PUMP CONTROLLED BY SEQUENCE OR BMS.

Issue	REVISION	DATE	BY	CHKD.
T2	RE ISSUE FOR TENDER	23.10.26	PGB	JG
T1	ISSUE FOR TENDER	23.03.26	PGB	JG

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

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Job	ST. BROGANS COLLEGE BANDON, CO. CORK
Client	ST. BROGANS COLLEGE
Drawing	MECHANICAL SERVICES BOILER HOUSE SCHEMATIC

Job No. E25/2652	Scale NTS@A1	Cad ref. 2652_St. Brogans.dwg
Drw. No. M2	Date FEB 2026	
Drawn PAUL O BRIEN	Checked JOHN GEANEY	

