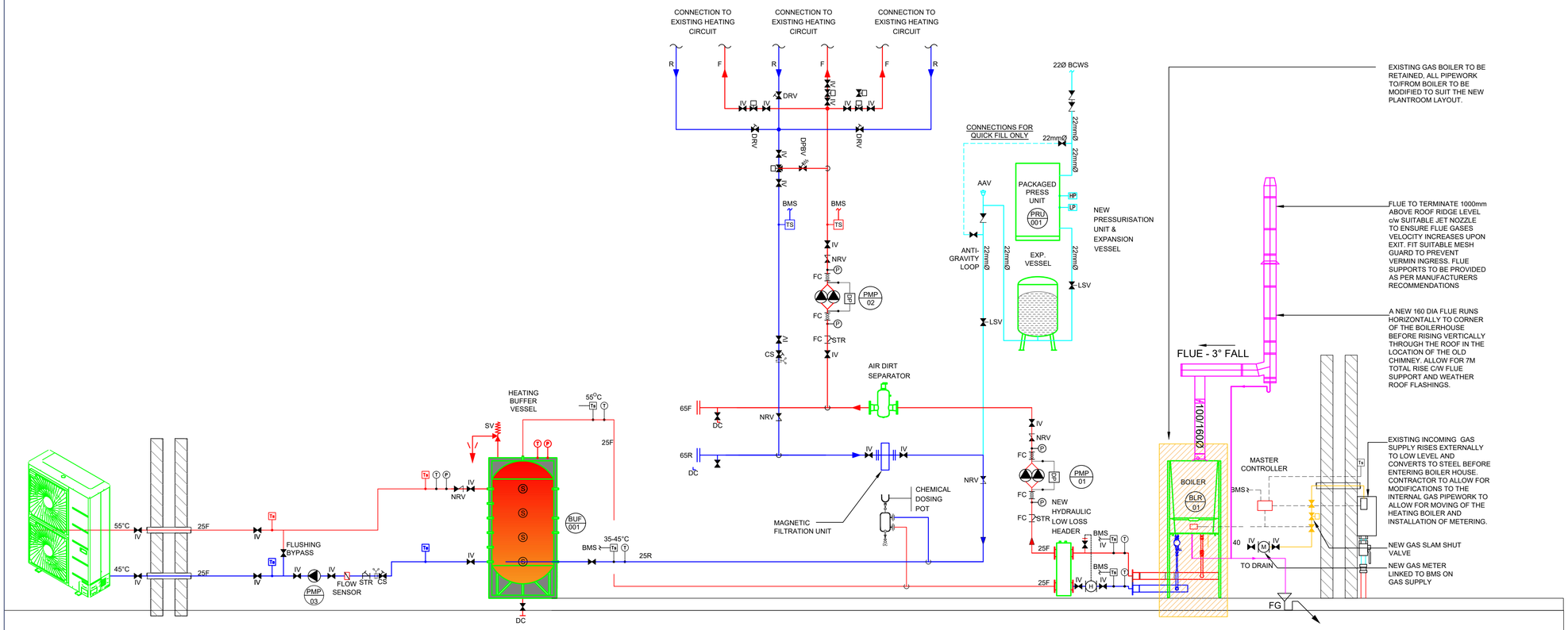
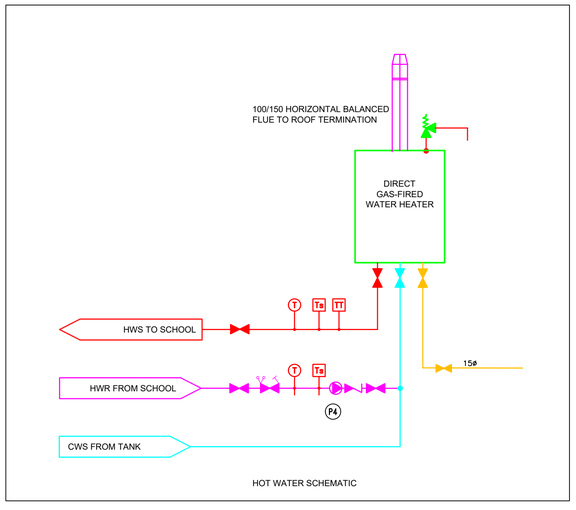
THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING WORKING DRAWINGS



BOILERHOUSE SCHEMATIC



AIR TO WATER HEAT PUMP SCHEDULE

ITEM	MAKE/MODEL	NOMINAL HEATING CAPACITY (EN14511)	SIZE	SEASONAL EFFICENCY	DESIGN TEMPERATURES	REFRIGERANT	COMPRESSOR TYPE	POWER SUPPLY	NOTES:
ASHP 01	HIGH TEMPERATURE AIR SOURCE HEAT PUMP.	11W	1040X480X1040L XWXH	135%	55°C FLOW TEMPERATURE @ A7 / W55	R290	SEMI-HERMETIC	220-240/1ph/50Hz	ASHP TO BE SUPPLIED WITH MASTER/SLAVE CONTROLLER TO ENABLE STEPPED PERFORMANCE c/w ALL PIPE FITTINGS, PUMPS AND FINAL CONNECTORS. HEAT PUMPS TO BE PROVIDED WITH INTEGRAL HYDRAULIC CONNECTOR KIT WITH FLANGED CONNECTION FOR HEATING FLOW AND RETURN.

PUMP SCHEDULE

ITEM	CIRCUIT	DUTY	STATIC HEAD	TYPE	POWER	CONTROLS
P1	BUFFER PRIMARY LOOP	1.5 kg/s	55 kPA	TWIN HEAD INLINE	230v/1ph/50Hz	VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK
P2	HEATING CIRCUIT	1.5 kg/s	120 kPA	TWIN HEAD INLINE	230v/1ph/50Hz	VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK
P3	HEAT PUMP PRIMARY	0.5 kg/s	60 kPA	SINGLE HEAD INLINE	230v/1ph/50Hz	VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK
P4	HOW WATER RETURN	0.4 kg/s	270 kPA	SINGLE HEAD INLINE	230v/1ph/50Hz	VARIABLE SPEED PUMP c/w DIFFERENTIAL PRESSURE CONTROLS & BACNET BMS LINK

BUFFER VESSEL SCHEDULE

ITEM	MAKE/MODEL	CAPACITY:	PRESSURE RATING	SIZE:	NOTES:
BFF 01	300 LITRE BUFFER VESSEL SUITABLE FOR LARGE VOLUME STORAGE OF HOT WATER	300 LITRES	3 Bar	1755mmH x 595mmØ	PRE INSULATED - FACTORY FITTED. SENSOR POCKETS TO BE PROVIDED ALONG THE VERTICAL FACE OF THE BUFFER VESSEL FOR TEMPERATURE MONITORING.

WATER HEATER SCHEDULE

ITEM	MAKE/MODEL	FUEL	SIZE	SEASONAL EFFICENCY	MIN PEAK FLOW @55 DEGREES	POWER CONSUMPTION	POWER SUPPLY
WH 01	DIRECT GAS-FIRED INSTANTANEOUS WATER HEATER	LPG	615X464X240	104%	15 LITRES/MIN	75.9w	220-240/1ph/50Hz

LTHW HEATING LEGEND

- ISOLATION VALVE
- NON RETURN CHECK VALVE
- DOUBLE REGULATING VALVE
- COMMISSIONING VALVE
- COMMISSIONING SET
- THREE PORT CONTROL VALVE
- THREE PORT VALVE
- TWO PORT CONTROL VALVE
- ANGLE PRESSURE RELIEF SAFETY VALVE
- MEASURING STATION
- LOCKSHIELD VALVE
- DEADWEIGHT VALVE
- PRESSURE RELIEF SAFETY VALVE
- PRESSURE INDEPENDENT CONTROL VALVE
- DIFFERENTIAL PRESSURE VALVE
- DIFFERENTIAL PRESSURE VALVE C/W TWO PORT CONTROL
- ANGLE VALVE
- STRAINER
- FLEXIBLE CONNECTION
- ANCHOR POINT
- EXPANSION GUIDE
- EXPANSION BELLOWS
- DRAINCOCK C/W HOSE UNION
- HEAT METER
- METER
- SINGLE PUMP
- TWIN PUMP
- DIFFERENTIAL PRESSURE SENSOR
- TEMPERATURE GAUGE
- TEMPERATURE SENSOR
- PRESSURE GAUGE
- PRESSURE SENSOR
- ROOM SENSOR
- AAV AUTOMATIC AIR VENT
- MAV MANUAL AIR VENT
- PIPEWORK AT LOW LEVEL
- PIPEWORK AT HIGH LEVEL
- PIPEWORK IN CEILING VOID
- PIPEWORK UNDER FLOOR
- HEATING FLOW PIPEWORK SERVING GF
- HEATING RETURN PIPEWORK SERVING GF
- HEATING FLOW PIPEWORK SERVING FF
- HEATING RETURN PIPEWORK SERVING FF
- HEATING FLOW/RETURN PIPEWORK SERVING CIRCULATION
- HEATING FLOW/RETURN PIPEWORK CONSTANT TEMP

LPHW	LOW PRESSURE HOT WATER
MPHW	MEDIUM PRESSURE HOT WATER
HPHW	HIGH PRESSURE HOT WATER
VTC	VARIABLE TEMPERATURE CIRCUIT
CTC	CONSTANT TEMPERATURE CIRCUIT
DTA	DROPS TO ABOVE
DTB	DROPS TO BELOW
RTA	RISES TO ABOVE
RFB	RISES FROM BELOW
C/V	CEILING VOID
H/L	HIGH LEVEL
L/L	LOW LEVEL

REV	DESCRIPTION	DRN	CKD	DATE
P02	TENDER STAGE	KC	SK	20.04.2026
P01	TA ISSUE	SK	SF	02-04-2026

ISSUE: TENDER STAGE

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PROJECT TITLE
ENERGY PATHFINDER MEATH SCHOOLS
8.6 ST PATRICK (UGHTYNEILL NS)

DRAWING TITLE
BOILERHOUSE HEATING SCHEMATIC

DRAWING REFERENCE	DRN	SCALE
3232-SMK-8.6-ZZ-SC-M-5601	SK	NTS @ A1