HOT WATER EXPANSION VESSEL
TYPE/MODEL TBC SUBJECT TO
HOT WATER CYLINDER

LSV

IV

CONNECT ONTO EXISTING
HOT WATER SERVICE

CONNECT ONTO EXISTING
COLD WATER SERVICE

EXISTING RADIATOR ONLY
PIPEWORK CONNECTS TO NEW
ASHP CIRCUIT

EXISTING UNVENTED HOT WATER CYLINDER TO BE RETAINED & REUSED IF EXISTING COIL CAPACITY IS MINIMUM 2M² (FOR 4, 6 & 9kW RANGE). IF COIL CAPACITY INSUFFICIENT THEN EITHER HOT WATER CYLINDER TO BE UPGRADED WITH A NEW UNVENTED CYLINDER FOR A CYLINDER WHICH DOES HAVE THE COIL CAPACITY (SUCH AS WORLD HEAT CLIMA CYL) OR PRE-PLUMBED EQUIVALENT OR PROCEED WITH OPTION 2 & HAVE AN EXTERNAL PLATE HEAT EXCHANGER INSTALLED TO REPLACE INDIRECT COIL.

25L BUFFER VESSEL TO
SUPPLEMENT WATER
SYSTEM VOLUME & PROVIDE
A HYDRAULIC BREAK

SECONDARY PUMP MODEL
SUBJECT TO SPECIFIED
MANUFACTURER

EXISTING RADIATORS
TO BE UPGRADED AS
PER CUSTOMER
AGREEMENT TO ALLOW
ADEQUATE HEATING
DUTY WITH REDUCED
FLOW/RETURN TEMPS

OPTION 2: PLATE HEAT EXCHANGER
EXTERNAL WRAS APPROVED

PRIMARY PUMP MODEL SUBJECT
TO SPECIFIED MANUFACTURER

28Ø HEATING FLOW & RETURN
PRE-INSULATED STAINLESS
STEEL BRAIDED FLEXIBLE HOSE

DISCHARGE
TO WASTE

IV

DCV

EXISTING INCOMING
WATER SERVICE / VALVE
ARRANGEMENT

OPTION 2: POTABLE
CIRCULATION PUMP

MONO HEAT PUMP - 5, 8, 12 OR 16 KW

TP

DOC

FLUSH
VALVE

FLOW
SWITCH

STR

STRAINER WITH IN-BUILT
ISOLATION VALVE

3 PORT CONTROL VALVE FOR HEATING /
HOT WATER WITH HOT WATER PRIORITY.
3 PORT TO BE WIRED TO HIGH LIMIT
THERMOSTAT FOR COMPLIANCE WITH
BUILDING REGULATIONS APPROVED
DOCUMENT G

FILLING
LOOP

18L
HEATING
EXPANSION
VESSEL

LSV

EXISTING PIPEWORK DIRECTIONS
TO BE NOTED BY CONTRACTOR
PRIOR TO ANY PIPEWORK
REMOVAL

EXISTING HEATING FLOW AND
RETURN PIPEWORK IN DWELLING

FILL LOOP TO
CONNECT TO EXISTING
LOCAL COLD WATER
SERVICE COMPLETE
WITH DOUBLE CHECK
VALVE, ISOLATION
VALVES AND FLEXIBLE
CONNECTION

PROPOSED ARRANGEMENT FOR GAS SYSTEM BOILER
REPLACEMENT (OPTION 1)

GENERAL NOTES:

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LEGEND:

TP - TEST POINT

IV - ISOLATION VALVE

STR - STRAINER

FI	FOR INFORMATION	17.03.22
FI	FOR INFORMATION	11.03.22

FOR INFORMATION

CLIENT

DOMESTIC CLIENT

PROJECT NAME

ENERGY INITIATIVE
ASHP INSTALLATIONS

DRAWING TITLE

MECHANICAL SERVICES TYPICAL ASHP
MONO & HWC INSTALL

DRAWING TITLE	REV:
ELT HEAT(50)TYP(--)001	FI

DATE:	MARCH'22	SCALE:	NTS
DRAWN: PS	CHECKED: TO	AUTH: TO	

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