Lower Ground Flue with insulated ducts for internal ASHP heating and cooling.

2nd Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from 2F Bedroom rises in redundant Flue

3rd Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from 3F Bedroom rises in redundant Flue

1st Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from FF Bedroom rises in redundant Flue

Ground Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from GF Bedroom rises in redundant Flue to discharge through Chimney Pot

Extract fans from bedrooms/shower-rooms to discharge via duct in redundant flue. Ducts discharge to air via chimney pot.

Return Air from ASHP units to discharge through Chimney pot.

Ground Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from GF Bedroom rises in redundant Flue

1st Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from FF Bedroom rises in redundant Flue

3rd Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from 3F Bedroom rises in redundant Flue

2nd Floor Flue with insulated ducts for internal ASHP heating and cooling.

100mm dia Extract Duct from 2F Bedroom rises in redundant Flue

Lower Ground Flue with insulated ducts for internal ASHP heating and cooling.

Wall plate at head of Mansard Roof, supports ceiling and truss joists.

Purlin supporting common rafters,. Purlin propped down to truss with vertical and raking props.

Ceiling and Truss Joist Binder located below Purlin

Loft hatch

Load bearing partition below, supports ceiling and truss joists.

Existing 227L CWT

Existing 227L CWT

Ridge Beam

Ceiling and Truss Joist Binder located below Ridge

Existing Water Tank Platform

Air Supply to ASHP units to be drawn from loft through side of fllue passing through loft.

Fully enclose Tanks with insulation to protect from cold and excess summer heat.

Insulate the loft at ceiling level with min 300mm mineral wool, ommitting 1m2 below each tank to allow some heat transfer to tanks in Winter.

Flat Roofed Projection to roof covering existing glazed opening/roof access.

Ceiling and Truss Joist Binder located below Purlin

Purlin supporting common rafters,. Purlin propped down to truss with vertical and raking props.

Convert door to louvered door to supply air to loft space for ASHP Units and provide ventilated loft space.

Wall plate at external wall, supports ceiling and truss joists.

All Flues serve rooms as shown at left.

Extract from LGF room rises in redundant flue.

Pumped HWS rises from and returns to lower GF Plant Room. Distributes to Shower Rooms via loop in loft, 50mm drops to shower rooms in duct behind WCs.

Wall plate at head of Mansard Roof, supports ceiling and truss joists.

Cold Water Supply drops from break tanks to pumpset in Lower Ground Floor Plant Room.

Pumped Cold Water Supply, balanced to hot supply rises to loft to distribute to CWS dropping in ducts behind WCs in Shower rooms.

Purlin supporting common rafters,. Purlin propped down to truss with vertical and raking props.

Ceiling and Truss Joist Binder located below Purlin

Loft hatch

Load bearing partition below, supports ceiling and truss joists.

Existing 227L CWT

Existing 227L CWT

Ridge Beam

Ceiling and Truss Joist Binder located below Ridge

Existing Water Tank Platform

Extract ducts from 3 shower rooms rise to loft and discharge through tile vent tiles on rear roof.

Fully enclose Tanks with insulation to protect from cold and excess summer heat.

Insulate the loft at ceiling level with min 300mm mineral wool, ommitting 1m2 below each tank to allow some heat transfer to tanks in Winter.

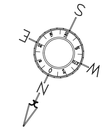
Ceiling and Truss Joist Binder located below Purlin

Purlin supporting common rafters,. Purlin propped down to truss with vertical and raking props.

Flat Roofed Projection to roof covering existing glazed opening/roof access.

Convert door to louvered door to supply air to loft space for ASHP Units and provide ventilated loft space.

Wall plate at external wall, supports ceiling and truss joists.



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All dimensions and levels indicated must be site checked prior to commencement of works,and any discrepancies found must be reported.
Please consult with the architect in the event of an anomaly or conflicting information.
Please also refer to the structural engineer's details and specification for structural information and the services engineer's details and manufacture drawing

1M 2M 3M 4M 5M

REV	BRIEF DETAILS	DATE
-	Initial Issue	

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ARCHITECTURE SURVEYING TOWN PLANNING PHD

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Drawing: M&E Water Supplies
Loft floor plans

Date: 23-08-2022

Drawn By: SHD/VM

Scale: 1-20 at A1

Drawing Number: 2105/BC/WS 615