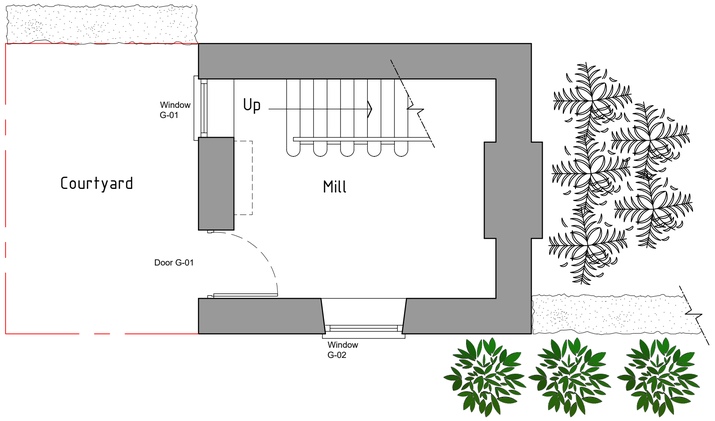
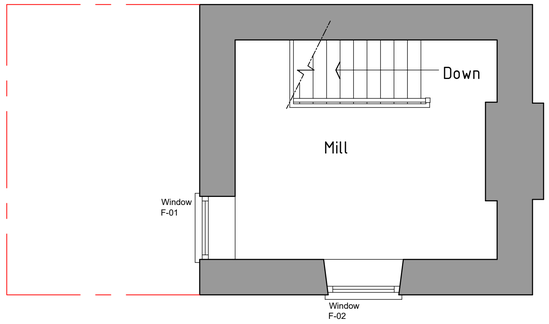
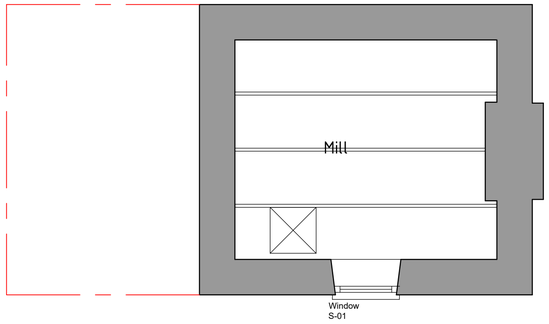


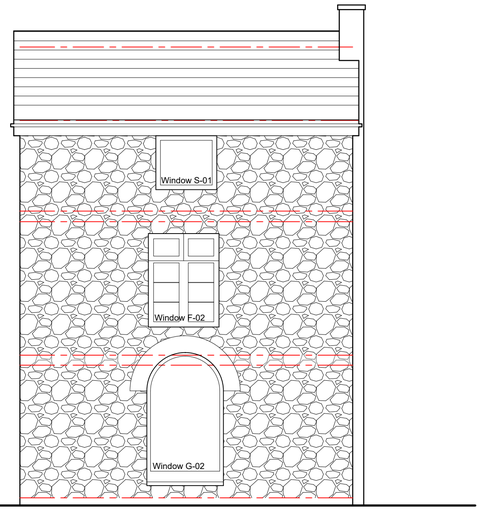

Ground floor plan 1:50



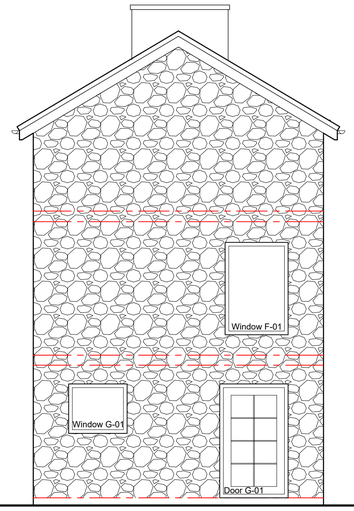

First floor plan 1:50



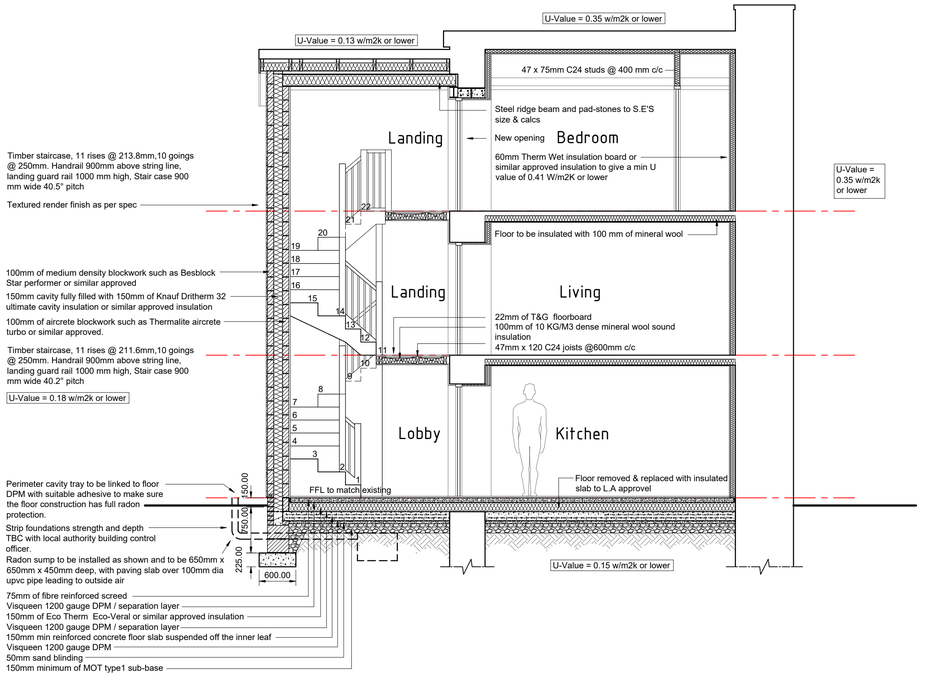

Second floor plan 1:50



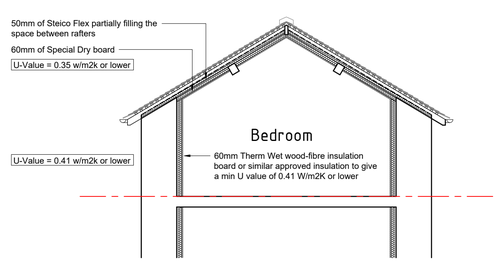

As Existing Front Elevation 1:50




As Existing Side-01 Elevation 1:50




Section AA-01 1:50




Section BB-01 1:50

All steel work to have either No.2 x layers of 12.5mm plasterboard or intumescent paint to give 60 minutes fire protection

All window & door sizes / structural openings to be site measured / confirmed prior to ordering / manufacture

Existing roof thermal upgrade comprises;
- Existing slates and battens retained
- Existing 75mm deep rafters retained
- 25 x 50mm counter battens screwed to underside of rafters
- 50mm of Steico Flex partially filling the space between rafters
- 50mm ventilation gap above insulation ensuring a Steico UDB breather membrane is fitted flush on the external face of the flex
- 60mm of Special Dry board
- 12mm of internal lime plaster as pr spec

Target U-Value of 0.35 W/m2k or lower

New cut roof comprises;
- Slates on 25 x 50mm battens to match existing
- Breathable membrane such as DuPont Tyvek Supro or similar approved
- 47 x 200mm C24 Rafters @ 600 mm c/c
- Steel ridge beam to S.E'S size & calcs
- 150mm of EcoTherm Eco-Versal partially filling the space between rafters
- 50mm ventilated air gap above insulation
- 72.5mm of EcoTherm Eco liner insulated plasterboard with 3 mm of nominal skim finish to underside of rafters

Target U-Value of 0.13 W/m2k or lower

Suspended timber floor comprises;
- 22mm of T&G floorboard
- 47mm x 120 C24 joists @600mm c/c as indicated on plans
- 100mm of 10 KG/M3 dense mineral wool sound insulation between joists
- 12.5mm of plasterboard with 3mm of skim finish to underside of joists

Internal wall insulation comprises;
- Existing solid masonry wall retained
- 20mm NHL thermo (insulating lime levelling coat)
- 3mm Isovit lime bonding coat
- 60mm Therm Wet insulation board or similar approved insulation to give a min U value of 0.41 W/m2K or lower
- Internal lime Plaster

Target U-Value of 0.41 W/m2k or lower

Internal Lime Plaster comprises;
- 3mm Isovit Lime applied with a 10mm notched trowel
- 4mm Glass Fibre Mesh
- 3mm Isovit Lime to cover mesh giving a total backing coat thickness of 6 mm
- 2mm Reabilita AC Fino applied in two passes

Existing Masonry wall repairs
Walls to be repaired / pointed using Lime mortar. Proposed product to be CLM28F ready mixed coarse lime mortar.
Mix ratio 1:3 - Lime putty: Sand plus 18mm fibres

Stud partition wall comprises;
- 47 x 75mm C24 studs @ 400 mm c/c
- 75mm of 10KG/M3 dense mineral wool sound insulation between studs
- 12.5mm of plasterboard with 3 mm of nominal skim finish each side

Brick & Block cavity wall comprises;
- Outer leaf comprises;
- 20mm of textured render as per specification
- 100mm of medium density blockwork such as Besblock Star performer or similar approved
- 150mm cavity fully filled with 150mm of Knauf Dritherm 32 ultimate cavity insulation or similar approved insulation to give a min U value of 0.18 W/m2K or lower
- Inner leaf comprises 100mm of aircrete blockwork such as Thermalite aircrete turbo or similar approved.
- 12.5mm of plasterboard on dabs with 3 mm of nominal skim finish

Target U-Value of 0.18 W/m2k or lower

Ground Floor comprises;
- 25mm floor finish allowance
- 75mm of fibre reinforced screed
- Visqueen 1200 gauge DPM / separation layer
- 25mm perimeter insulation up-stand
- 150mm of Eco Therm Eco-Veral or similar approved insulation
- Visqueen 1200 gauge DPM / separation layer
- 150mm min reinforced concrete floor slab suspended off the inner leaf
- Visqueen 1200 gauge DPM
- 50mm sand blinding
- 150mm minimum of MOT type1 sub-base
- Target U-value 0.15 W/M2k or lower

As Existing

HDS ARCHITECTURAL SERVICES
HDS Architectural Services, The Foundry,
15 Yorke Street, Wrexham
LL13 8LW
Tel (01978) 345250
www.hdsarchitectural.co.uk

**Project;**
Hen Felin, Llanarmon Dyffryn Ceiriog, Llangollen, LL20 7LD

| **Title;** | **Scale (A1);** |
|---|---|
| 01-Floor plans, elevations & sections | 1:50 |
| **Dwg No;** HF/PL/100 | **Date;** 13.04.26 |

**Revision;**