

EXTERNAL TIMBER FRAME WALLS + DORMER CONSTRUCTION
(See U value calculations 12)

Locations =
gable of new extension facing garage,
infill wall section to front of link roof between extension and existing garage roof,
dormer stud walls,
and consisting of
Three coat render on backed metal lath
Treated vertical 50mm batten with dpc to outer face to receive lath. Cavity
between battens to be vented and drained.
Breather paper over outer sheathing layer
140mm timber studs at 400mm centres
140mm Rockwool Flexi
Vapour barrier
12.5mm plasterboard with skim coat finish



18) PITCHED ROOF CONSTRUCTION - (See U value calculations 11)
Extension Roof framing (See also structural calculations)
(1) Ridge beam 115 x 315mm glulam, scarf jointed over support post (as suggested by engineer)
(2) Rafters 47 x 150mm C16 @ 400mm centres, these to be doubled up and bolted where they become trimmers to dormers.
(3) Ceiling ties 47 x 150mm C16 @ 400mm centres
ii) Insulation -
(1) 50mm air gap to be maintained between rafters above insulation
(2) 50mm CELOTEX TUFF R board insulation to be installed between rafters.
(3) 70mm CELOTEX TUFF R board insulation to be installed under rafters.
iii) Fix polythene vapour barrier
iv) Ceiling to be 12.5mm plasterboard with a 5mm coat board plaster finish.
v) Roof covering of untearable felt, 19 x 38mm treated battens and plain concrete tiles to match existing
vi) Valleys formed to tile manufacturer's detail.
vii) A 50mm air gap to be left at eaves to provide ventilation to roof space.

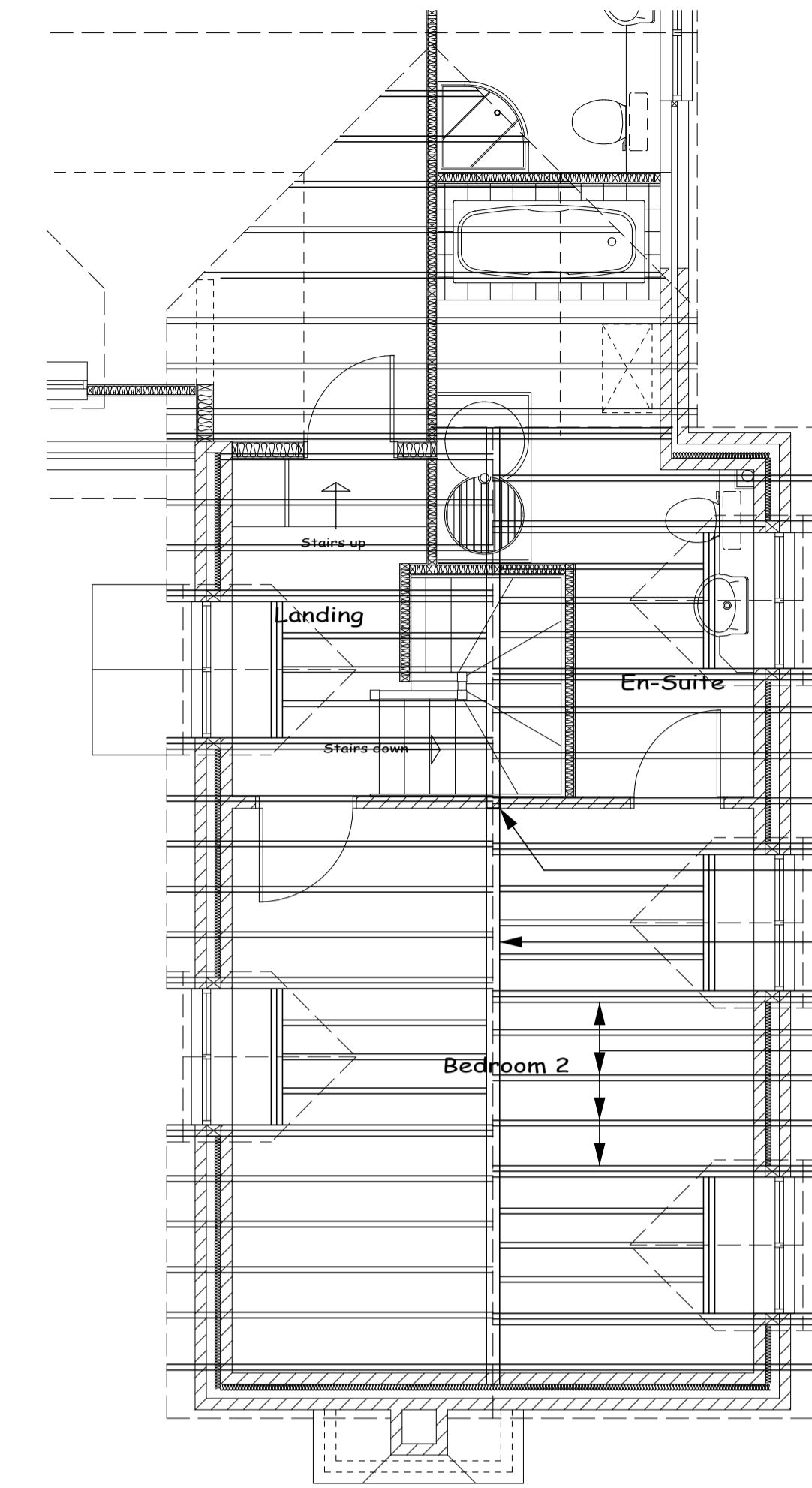
FIRST FLOOR CONSTRUCTION.
Constructed using C16 grade timber joists at 400mm centres.
size of joist shall be 50 x 220mm (as per engineers calculations)
Floor covering of 22mm T & G chipboard or 25mm softwood T & G boarding.
Underlaid with 12.5mm plasterboard and finished in one coat of board plaster.
Underlaid with 2 layers 12.5mm plasterboard with staggered joints and skim coat finish. (30 minute fire protection)
Lateral restraint - 5 x 30mm mild steel straps to be built into walls and across first three joists where joists run parallel to wall with solid strutting.
Herringbone strutting to be provided at maximum 2.0m centres.
100mm Rockwool RW45 sound quilt.

NEW EXTERNAL CAVITY WALL CONSTRUCTION
(See U value calculations 9 and 10) with
Outer leaf - 150mm natural stone to Local Authority approval and dense concrete block and rendered to match existing.
Inner leaf - 100mm celcon solar lightweight block with a two coat plaster finish.
Cavity 100/100+mm with 50mm clear and stainless steel ties supporting 50mm Celotex Tuff-R (CW3050) cavity insulation. Cavity widened as necessary to suit blockwork above stone.
Cavity to stonework area formed using the "Surecav system".
New structure to be joined to existing using stainless profiles (Furfix, Crocodile or equal) or tooth bonded.

FOUNDATIONS - NEW.
Generally in GEN 1 mix concrete, with a minimum cover of 450mm but depth to be agreed with the Building Inspector.
Sizes
i) To cavity walls 600mm wide x 225mm deep
ii) To 100mm partition walls 450mm wide x 225mm deep

GROUND FLOOR
i) Over slab insulation (See U value calculations 8)
(1) 150mm consolidated hardcore blinded with sand,
(2) 1200G polythene DPM lapped onto wall DPC's, (refer Radon protection if required by B.C.)
(3) 100mm GEN 1 mix concrete floor slab
(4) Celotex GA3065Z (65mm) (See appended PAR details 30b)
(5) 22mm chipboard floor decking to receive client floor finish
ii) Install air ducts to fireplace - (see Chimneys, Flues, and Hearths.)

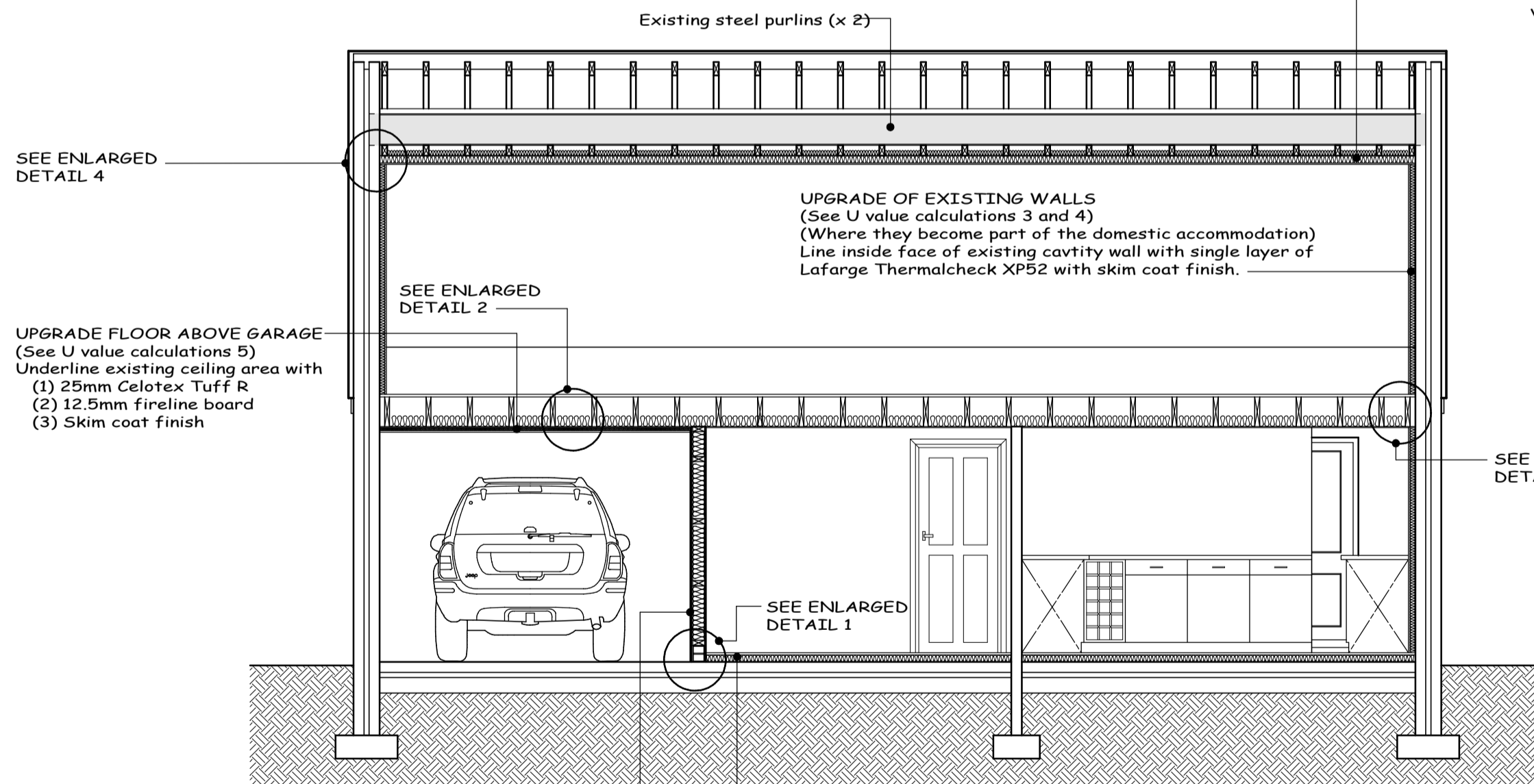
Part West Elevation/Section Through



100 x 100mm support post bearing on cut section of prestressed lintel bedded on block wall
115 x 315mm glulam ridge beam (scarf jointed over support post)
47 x 150mm C16 rafters at 400mm centres. These to be doubled up and bolted where they become trimmers to dormers
47 x 170mm C16 ceiling ties at 400mm centres bolted to rafters
(Refer also to structural engineers calculations/notes/sketches provided separately)

Indicative layout of rafter/beam arrangement

UPGRADE EXISTING GARAGE ROOF - (See U value calculations 7)
i) Remove any existing lining to rafters
ii) Remove any existing insulation from between rafters
iii) Install insulation -
(1) 50mm air gap to be maintained between rafters above insulation
(2) 50mm CELOTEX TUFF R board insulation to be installed between rafters.
(3) 70mm CELOTEX TUFF R board insulation to be installed under rafters.
iv) Fix polythene vapour barrier
v) Ceiling to be 12.5mm plasterboard with a 5mm coat board plaster finish.



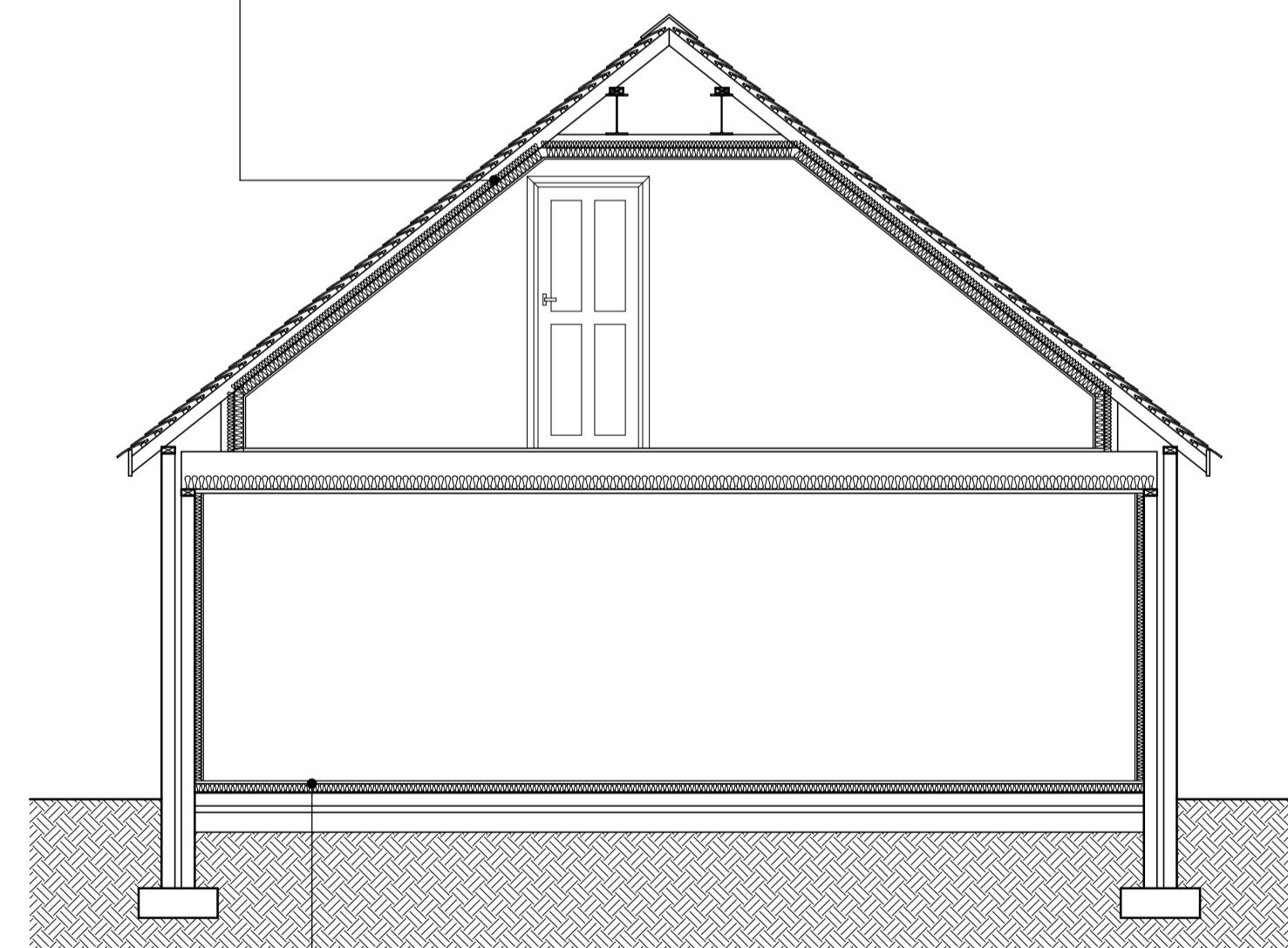
UPGRADE OF EXISTING WALLS
(See U value calculations 3 and 4)
(Where they become part of the domestic accommodation)
Line inside face of existing cavity wall with single layer of Lafarge Thermalcheck XP52 with skim coat finish.

UPGRADE FLOOR ABOVE GARAGE
(See U value calculations 5)
Underline existing ceiling area with
(1) 25mm Celotex Tuff R
(2) 12.5mm fireline board
(3) Skim coat finish

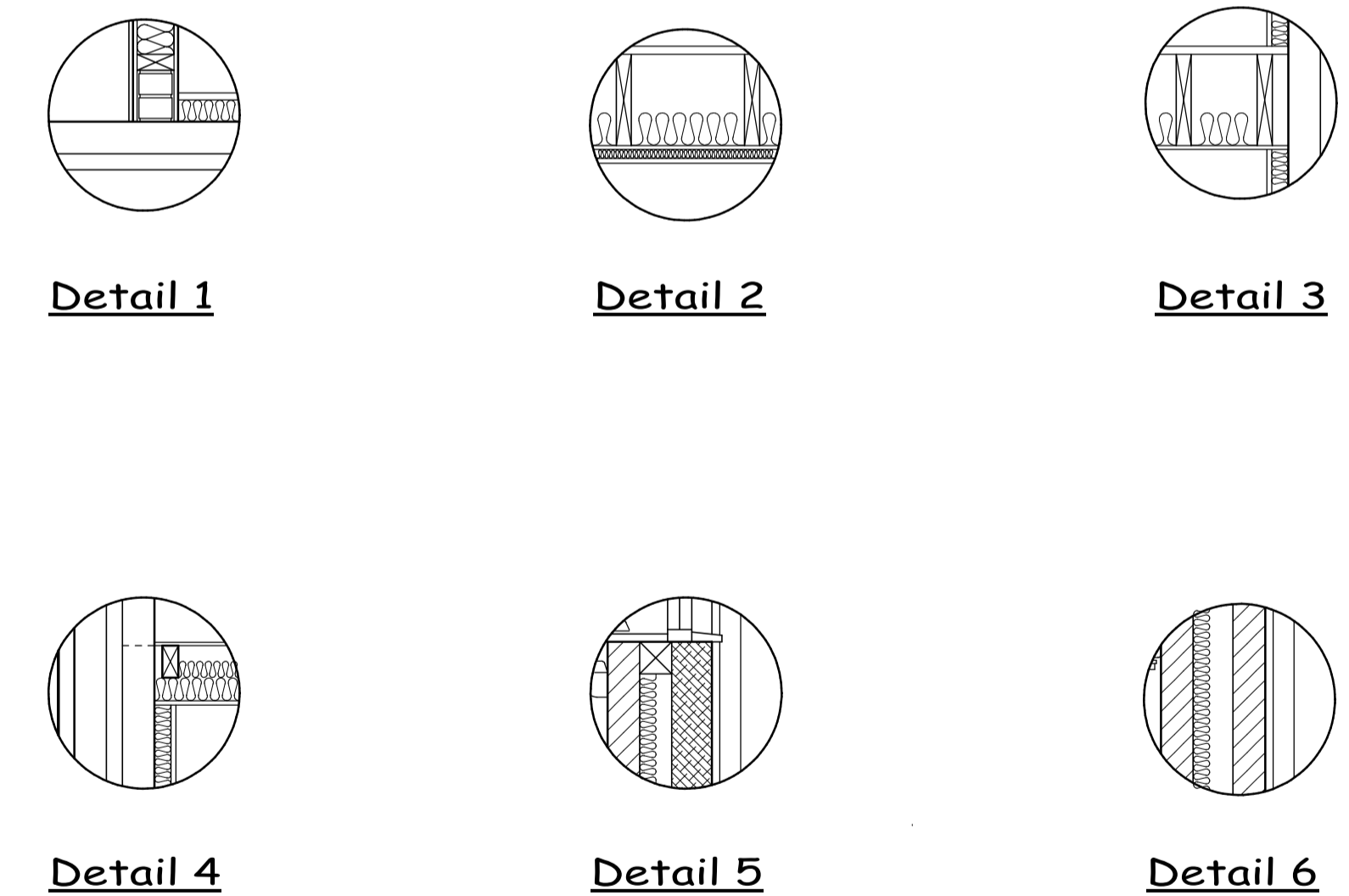
EXISTING GARAGE FLOOR AREA TO BE UPGRADED.
Add over slab insulation - (See U value calculations 1 and 2)
Celotex GA3065Z (65mm)
22mm chipboard floor decking to receive client floor finish

SEMI-EXPOSED WALL (garage/house) (See U value calculations 6)
2 courses blue engineering brick (provides fluid retention barrier for garage)
140mm timber frame wall with
Garage side two layers 12.5mm fire line board (staggered)
140mm timber framing with studs at 600mm centres and horizontal nogins at 900mm centres.
140mm full fill Rockwool Flexi
Clad dining room side with polythene vapour barrier
12.5mm plasterboard with skim coat finish

Section A - A
Sections Scale 1:50



Section B - B

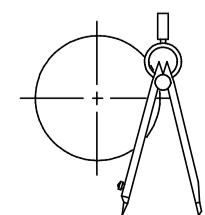


Enlarged Details - Scale 1:20

This drawing should be read in conjunction with the following separate

- 1) Building specification
- 2) Structural Engineers
 - (a) Drawing
 - (b) Calculations
 - (c) Sketches

- E Emergency escape window
- S Interlinked smoke detector
- H Interlinked heat detector



Client:

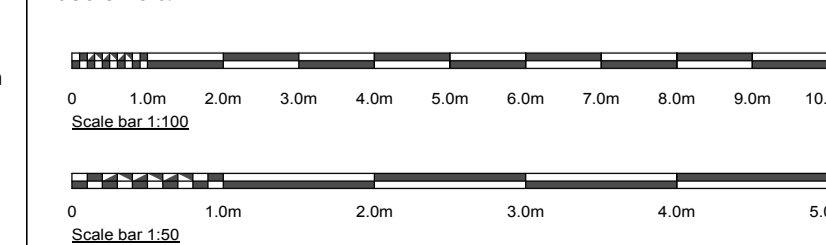
Project:

Proposed New Cottage in the grounds of Trims Cottage, Newtown, Tisbury, Wilts
This drawing = Sections and Details

Notes:

* This drawing is copyright.
* All dimensions must be checked on site and not scaled from this drawing
* Rev A - Change trussed roof to cut roof (refer to engineers information in addition to drawing)

Scale Bars:



Drawing:

Building Regulations

Sheet size:

A1

Scale:

As stated

Date:

Oct 2008

Drawing No:

1059/08/05

Rev:

A.