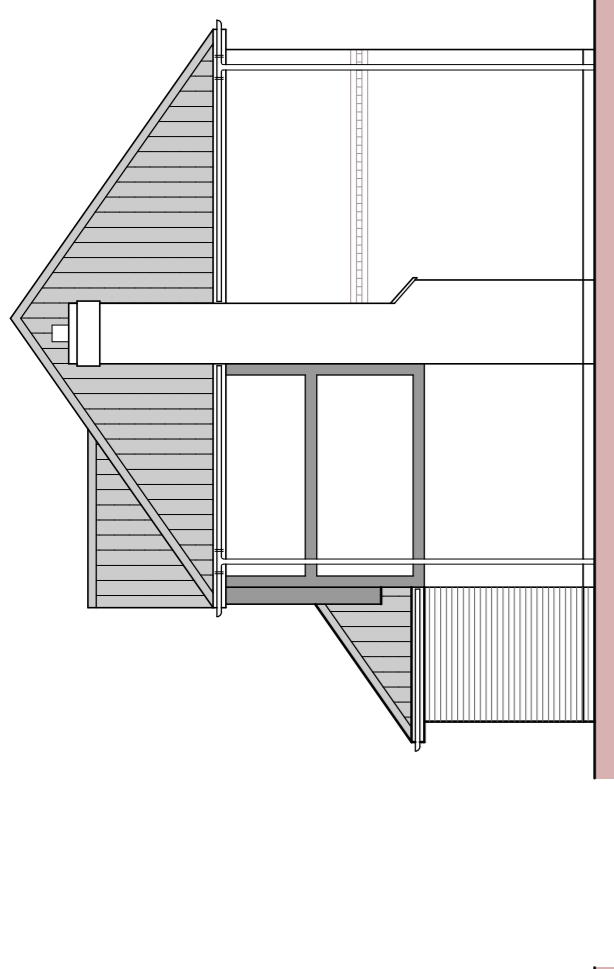
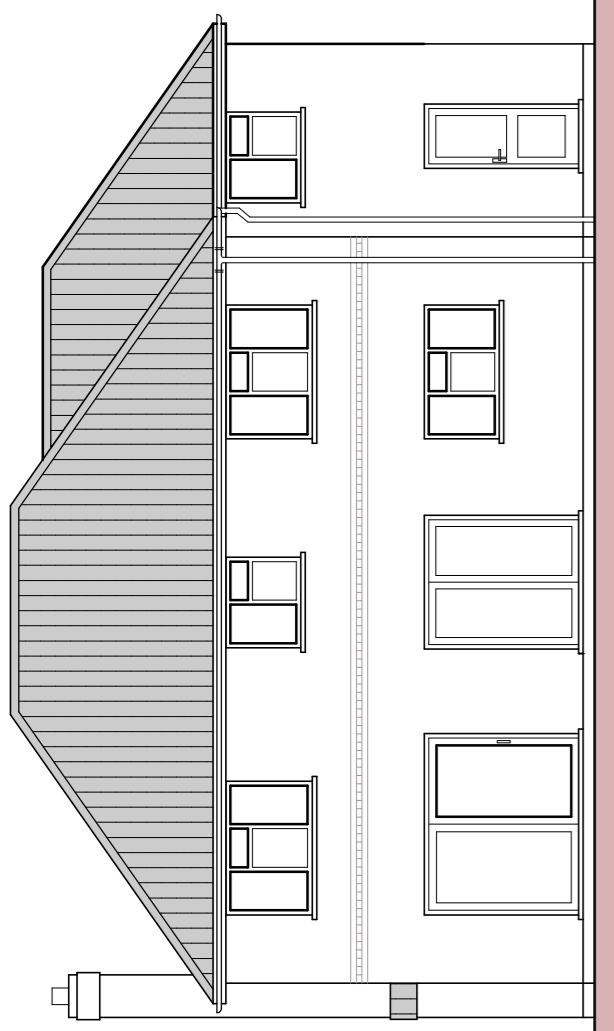


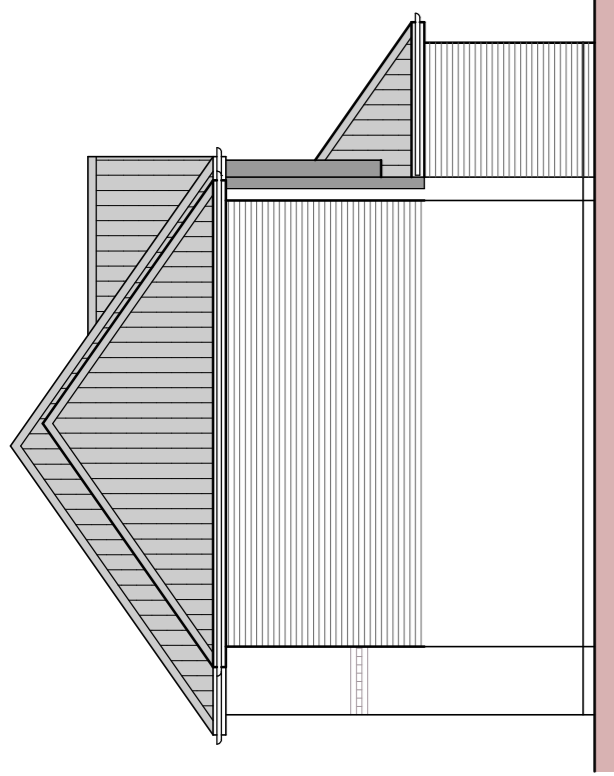
Front Elevation



Side Elevation



Rear Elevation



Side Elevation

ROOF
 125mm felt-based plasterboard with plaster skim finish to ceiling.
 Ceiling to be finished with 100mm Gypsum board in accordance with BS2220 Control of Asbestos in Buildings.
 150mm fibreglass quilt insulation between ceiling joists with a further 100mm insulation laid across.
 Roof void ventilated through continuous 25mm soffit vents backed with fly screen all round.
 Code 4 stepped lead flashings to be provided at junctions of roof to walls.
 A suitable cavity tray is to be inserted over the flashing where the roof abuts the external wall.
 Lead sheet in the valley gutters and flashings to be limited to 1.200m in lengths between expansion joints/drips.
 All lead work to be carried out in accordance with the Lead Development Association's recommendations.

110mm HR, extruded gutters, 60mm dia, downpipes connecting via new 100mm dia, 150mm UPVC drains laid & bedded on parashield to new subgrade min. 5000mm from buildings. Any existing soakaway found within 5000mm of new extension to be moved to >5000mm away.
 Soakaway to be designed in accordance with BRE Digest 365 and sizes determined by percolation test on site.
ALL ROOF TIMBERS TO BE MIN. C24 GRADE AND TANGLED.

FIRST FLOOR.
 22mm chipboard (type P3) to BS EN 312) on min 175 x 50mm C24 grade joists & 400mm centres.
 15mm plasterboard (minimum mass 10kg/m²) & skimmed ceiling.
 Herring bone strapping @ 175sq-spac. Floor void to have 100mm sound damping mineral wool laid between joists.
 100 x 100 (L10 L10) joists.
 1st floor stud partitions built off double joists bedded together.
 Double joists to be provided under bathroom areas.
 Floor joists strapped to walls using 30 x 2mm m/s strips @ 1800mm centres to provide lateral restraint.
 Solid noggin to be provided between 1st floor joists under stairs.
 Where joists have an angled or irregular top, noggin to BS2622:part 1 are to be incorporated @ max. 2.000m centres.

WALLS.
 100mm facing bricks to match existing.
 100mm cavity with 90mm Celcon Thermacore. Cavity wall insulation on outside of cavity.
 100mm Thermalite Turbo blocks with 12.5mm plasterboard on dabs.
 NOTE: New walls built over or in line with existing walls where cavity width is maintained to have full 100mm cavity sub 22 insulation, 100mm Thermalite Turbo blocks and bedded increasing with 75mm Celcon PL4089 insulation backed plasterboard.

2700mm long Incon ST1 General purpose stainless steel wall ties @ 750mm horiz. & 450mm vert. centres.
 New walls bedded to existing & cavities maintained.
 Hybrid DPC min. 150mm above G.L. to lap with existing.
 100mm Celcon Thermacore DPC's & double wall ties provided to all external walls.
 NOTE: For walls exceeding 6000mm in length movement joints to be inserted into brick and block walls in accordance with NIBC Technical Guidance 6.1/26.

Cavity linings with perforated base & filled with insulation all to manufacturers specification over new openings.
 Gypsum board to be carried out in accordance with BS2220 Control of Asbestos in Buildings.
 150mm fibreglass quilt insulation between ceiling joists with a further 100mm insulation laid across.
 Roof void ventilated through continuous 25mm soffit vents backed with fly screen all round.
 Code 4 stepped lead flashings to be provided at junctions of roof to walls.
 A suitable cavity tray is to be inserted over the flashing where the roof abuts the external wall.
 Lead sheet in the valley gutters and flashings to be limited to 1.200m in lengths between expansion joints/drips.
 All lead work to be carried out in accordance with the Lead Development Association's recommendations.

110mm HR, extruded gutters, 60mm dia, downpipes connecting via new 100mm dia, 150mm UPVC drains laid & bedded on parashield to new subgrade min. 5000mm from buildings. Any existing soakaway found within 5000mm of new extension to be moved to >5000mm away.
 Soakaway to be designed in accordance with BRE Digest 365 and sizes determined by percolation test on site.
ALL ROOF TIMBERS TO BE MIN. C24 GRADE AND TANGLED.

DRAINAGE.
 40mm Ø PVC waste to sewer. 32mm Ø to NHBS.
 All wastes to have 75mm deep seal anti-vacuum traps & rodding eyes to BS 9572:1/1/2.
 Wastes to connect to BLS or S/V.P. as shown.
 S.V.P. to terminate min. 900mm above any window head with 100mm dia. 100mm Ø 50mm UPVC pipes laid & bedded on parashield to new subgrade min. 5000mm from buildings. Any existing soakaway found within 5000mm of new extension to be moved to >5000mm away.
 Where passing through walls, drains to be protected with R.C. linings over.
 All shallow drain runs to be protected with 100mm concrete cover over.
 New manholes to be built in 225mm semi-rigid brickwork on 150mm concrete base with suitable cover fitted.

VENTILATION.
 All rooms to have min. 1/20th floor area of the room in ventilation openings & trickle vents in window frames with 8000mm² in total area per room.
 En-suites to be fitted with mechanical extract fan capable of extracting at a rate of 15 l/sec.
 All doors to have 10mm air gap at bottom.

All external glazing to doors and windows to be double-glazed with 16mm clear panes and 16mm E-glass and to be recognised safety glass clearly marked to BS6206.
 Windows to achieve a maximum U-value of 1.4 W/m²K, and doors a maximum U-value of 1.4 W/m²K.
 Doors and window frames to be set back to overlap insulated cavity closer by a minimum of 50mm.
 Any glazing in internal doors to be toughened safety glass to BS6206 Class B.

ELECTRICS.
 All new electric points and lighting to be provided to client's specification.
 All wiring and electrical work will be designed, installed, inspected and tested in accordance with the requirements of BS7671, the IEE 18th edition Wiring Guidance and Building Regulation Part P (Electrical safety) by a competent person registered with an electrical self-certification scheme authorised by the Secretary of State, AND

The competent person is to send to the local authority a self-certification certificate within 30 days of the electrical work being completed.
 The electrical work must be accompanied by a self-certification certificate and a BS7671 Electrical Installation Test Certificate.

FIRE PRECAUTIONS.
 All rooms to have escape windows having a minimum clear opening of 750mm high and 450mm wide. The bottom of the window opening is to be between 800mm and 1100mm above the finished floor level.
 Fully linked mains operated smoke alarms with battery back-up to be provided to ground floor and first floor landing areas, all in accordance with BS 5839-6:2014.

HEATING.
 Provision of underfloor heating or new radiators at designer's discretion. All new radiators in property to have thermostatic radiator valves fitted & underfloor heating to be on separate thermostat zones.

LIGHTING.
 Provide all low energy light fittings capable of taking only lamps of maximum wattage of 40W.
 All downlights to be used in new work to be FLAMEGUARD Fire and Acoustic Rated LED Downlights.
 When used with insulation around, downlights to have insulation support box over.

STEELWORK.
 All steelwork to be painted with 2 coats red oxide primer & 2 coats of anti-rust paint.
 All steelwork to be hot dip galvanized after fabrication.
 It is not possible to encase steel beams then they are to be coated with intumescent paint to give 112 hour fire resistance.

All pairs of beams to be bolted together using 12mm diameter bolts with spacer tubes at 650mm centres.

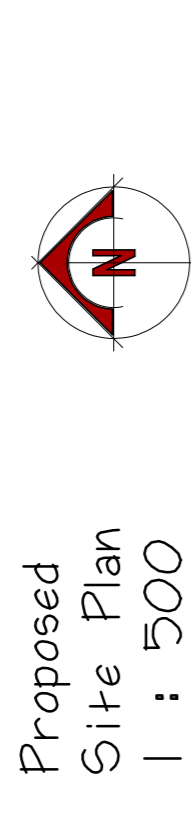
VENTILATION.
 All rooms to have min. 1/20th floor area of the room in ventilation openings & trickle vents in window frames with 8000mm² in total area per room.
 En-suites to be fitted with mechanical extract fan capable of extracting at a rate of 15 l/sec.
 All doors to have 10mm air gap at bottom.

All external glazing to doors and windows to be double-glazed with 16mm clear panes and 16mm E-glass and to be recognised safety glass clearly marked to BS6206.
 Windows to achieve a maximum U-value of 1.4 W/m²K, and doors a maximum U-value of 1.4 W/m²K.
 Doors and window frames to be set back to overlap insulated cavity closer by a minimum of 50mm.
 Any glazing in internal doors to be toughened safety glass to BS6206 Class B.

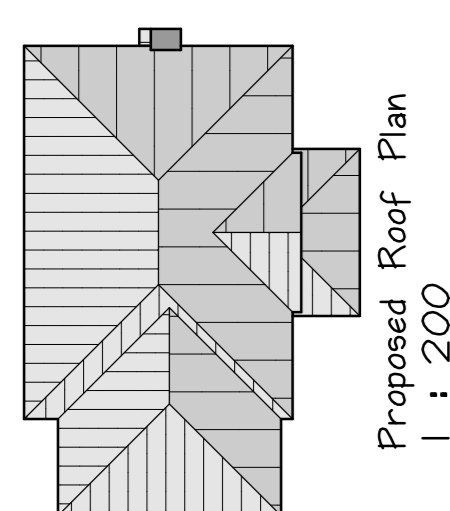
ELECTRICS.
 All new electric points and lighting to be provided to client's specification.
 All wiring and electrical work will be designed, installed, inspected and tested in accordance with the requirements of BS7671, the IEE 18th edition Wiring Guidance and Building Regulation Part P (Electrical safety) by a competent person registered with an electrical self-certification scheme authorised by the Secretary of State, AND

The competent person is to send to the local authority a self-certification certificate within 30 days of the electrical work being completed.
 The electrical work must be accompanied by a self-certification certificate and a BS7671 Electrical Installation Test Certificate.

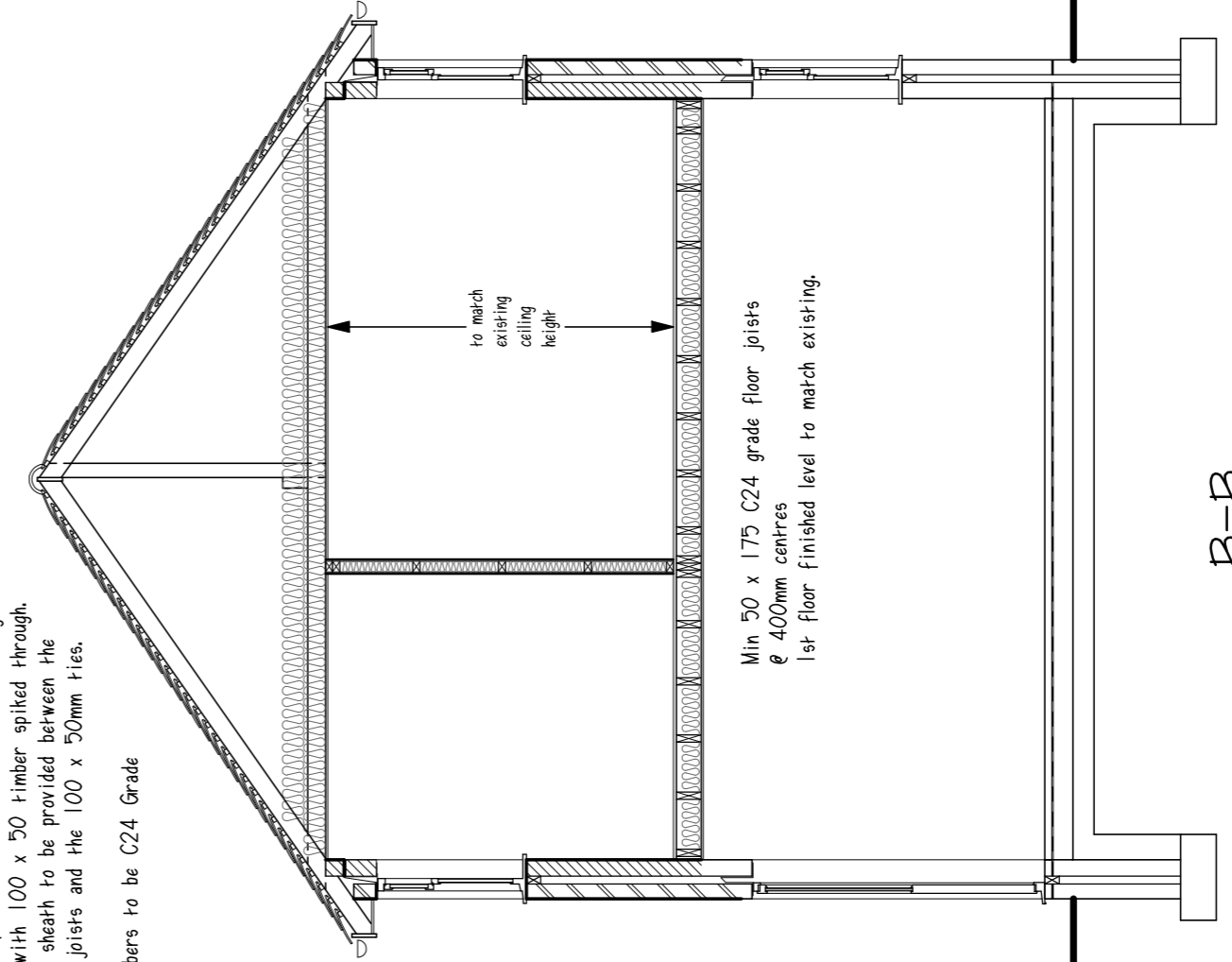
FIRE PRECAUTIONS.
 All rooms to have escape windows having a minimum clear opening of 750mm high and 450mm wide. The bottom of the window opening is to be between 800mm and 1100mm above the finished floor level.
 Fully linked mains operated smoke alarms with battery back-up to be provided to ground floor and first floor landing areas, all in accordance with BS 5839-6:2014.



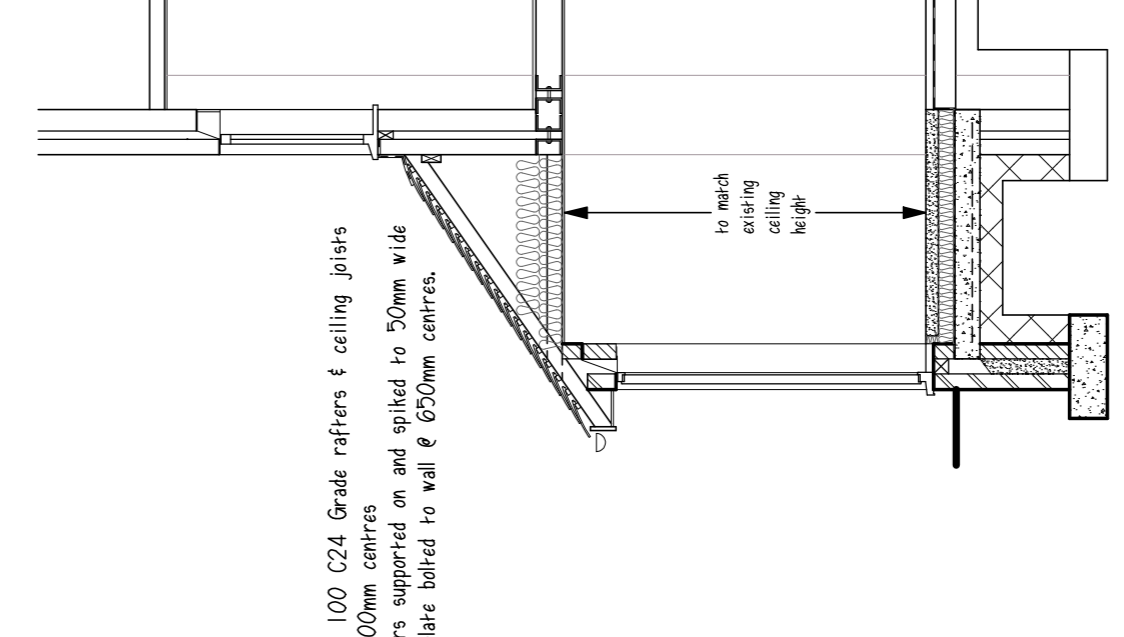
Proposed Site Plan 1 : 500



Proposed Roof Plan 1 : 200



B-B

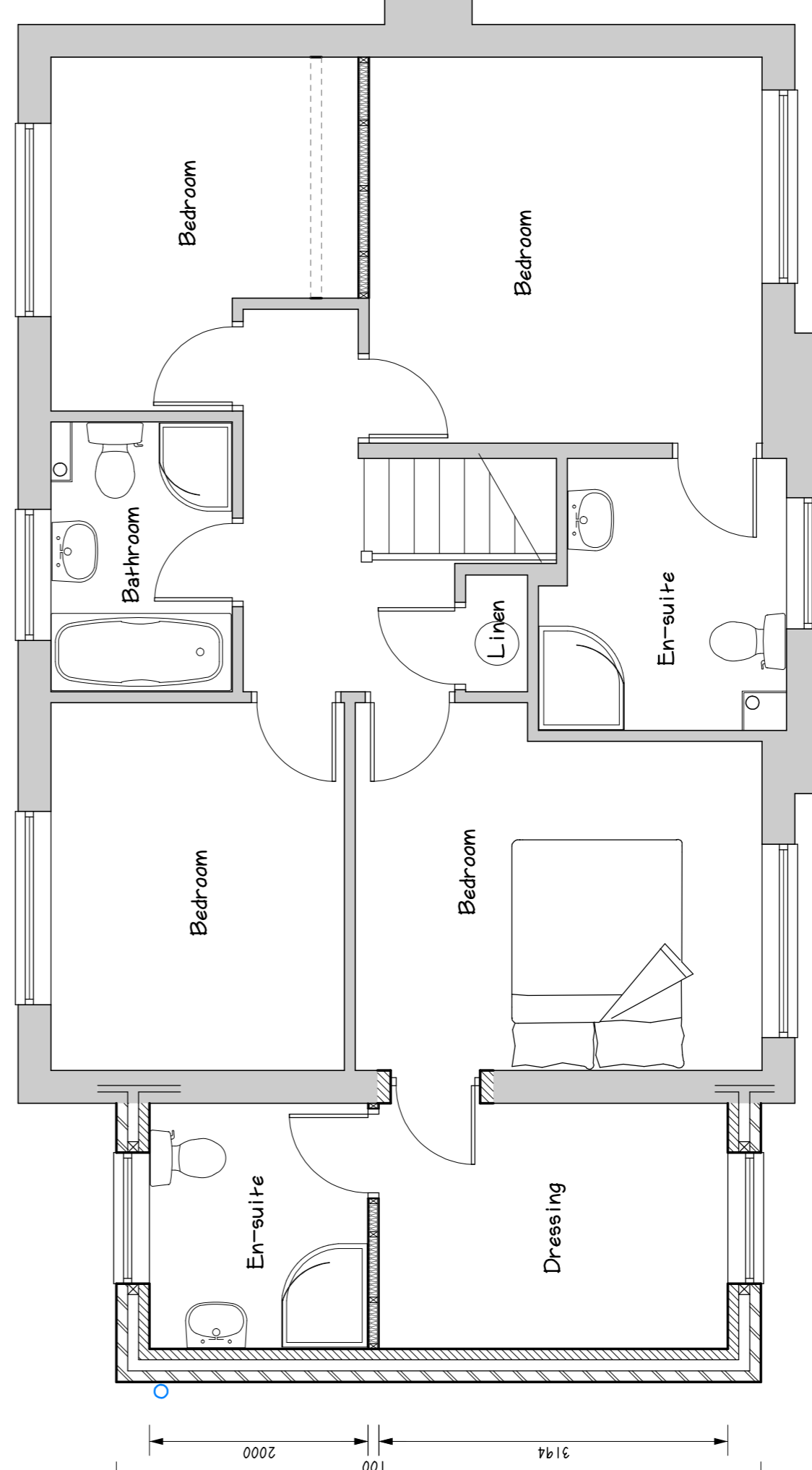


A-A

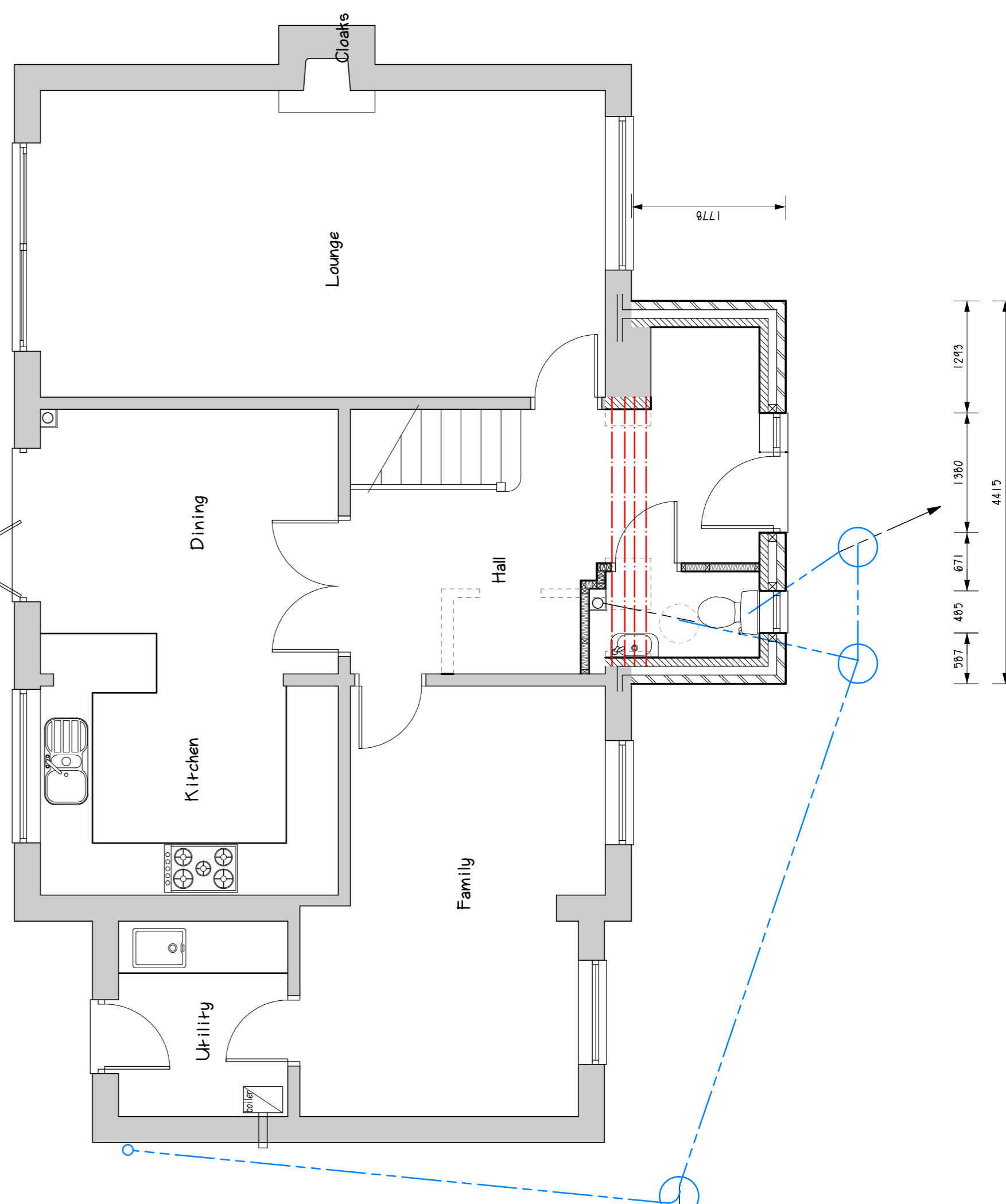
25 x 175mm Ridge board
 50 x 125mm rafters @ 400mm centres
 50 x 150mm ceiling joists @ 400mm centres
 65 x 175mm binder at mid-span with 100 x 50mm bangers @ 2.000m centres

To prevent spread of roof at hipped ends, end of rafters fixed back across 3rd ceiling joists with 100 x 50 timber spiked through. Pigeoned sheath to be provided between the ceiling joists and the 100 x 50mm tie.
 All timbers to be C24 Grade.

50 x 100 C24 Grade rafters & ceiling joists @ 400mm centres
 Rafter connection and spiked to 50mm wide wall plate bolted to wall @ 650mm centres.
 Min 20 x 175 C24 grade floor joists @ 400mm centres
 1st floor finished level to match existing.



900
 1200
 475
 2792



297
 495
 671
 1380
 1243
 4415

Milburns Designs

Clive Milburn MFRCs MCABE
 25 Alford Close
 Fimley
 Gamberley
 Surrey
 GU16 9PL
 Tel : 01252 835607
 Email : milburndesigns@btinternet.com

Proposed Extension at
25 Alford Close
Lightwater
GU18 5LF

CLIENT: Mr & Mrs A Keenan
 SCALE: 1:50 1:100
 DRAWING NO: 23/24 / 037 / 2
 REV: B

CONTRACT: PROPOSED PLANS

