

Drawing No. 24CSMB/11/01

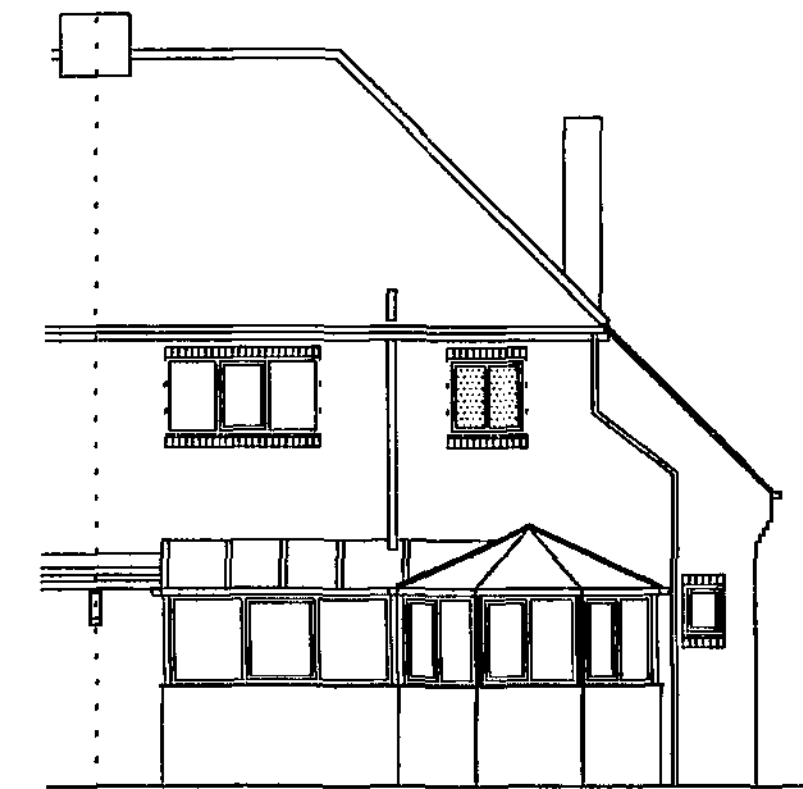
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Address 24 Cross Street
Monk Bretton
Barnsley
Project Existing Plans
Scale 1 : 50 & 1 : 100

Date May 2011

Willowbrook Design Services

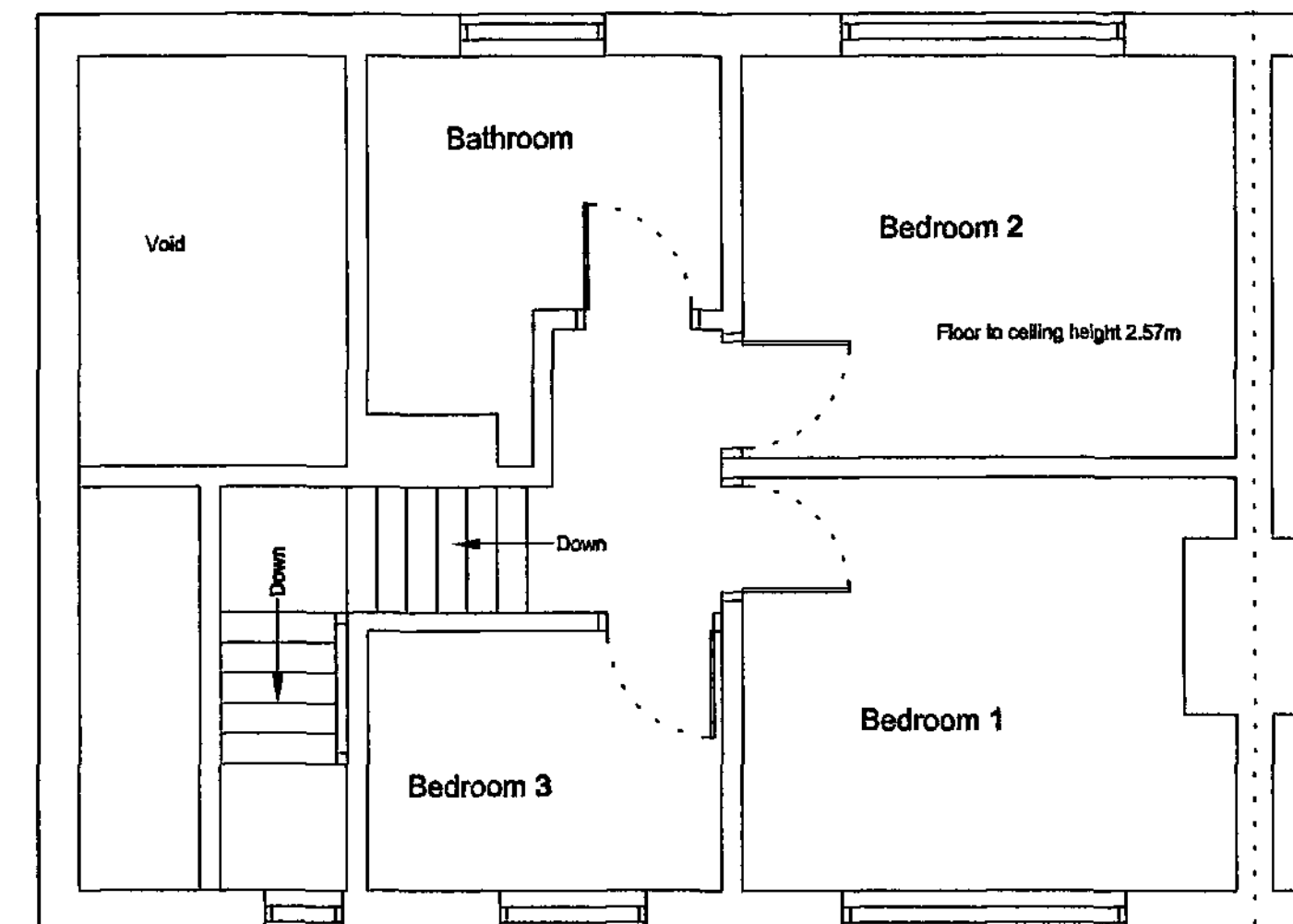
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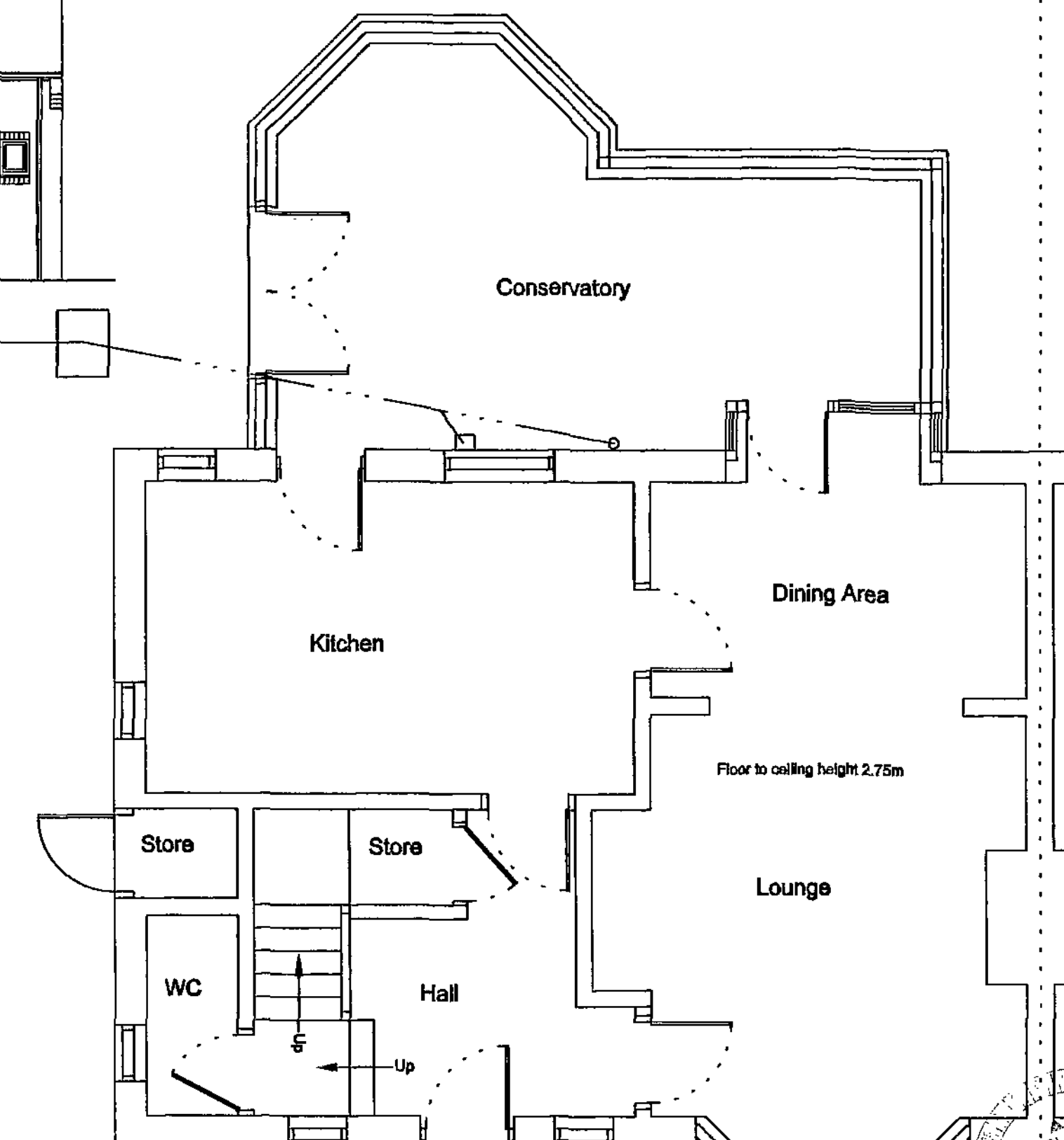
Existing Rear Elevation



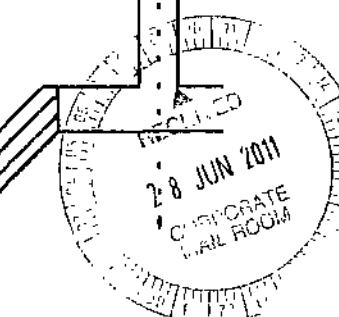
Existing Side Elevation



Existing First Floor Plan



Existing Ground Floor Plan



SINGLE STOREY ROOF
The roof to be 35 degree pitch with tile battens and felt as per main roof on 47mm x 120mm SC3 rafters and ceiling joists at 400mm centres with 50mm x 75mm triangulation hangers, 75mm x 100mm lower wallplate to inner leaf tied down to blockwork with 30mm x 5mm x 1000mm long galvanised steel straps at 1.8m centres, 75mm x 100mm upper wallplates Rawl bolted to wall at 600mm centres supporting ceiling joists with steel hangers, rafters and ceiling joists tied to gable walls with 30mm x 5mm x 1.8m long steel straps spanning a minimum of 3 joists and block out between joists and extended down the cavity 450mm at 1.5m centres. Finished with insulation and underside as per main roof.

Proposed Side Elevation B

EXTERNAL WALLS

To be cavity wall construction with external leaf of brick to match existing with 100mm cavity with 50mm Kingspan Kooltherm K8 insulation wall batts fixed to internal leaf of 100mm Thermalite shield blocks. Walls ties to be 5 number per metre square and 225mm vertical centres to reveals, stainless steel double triangle to BS 1243. The internal wall to be finished with 15mm two coat gypsum plaster or 12.5mm plasterboard on dabs. The blockwork and brickwork to be either block bonded or tied using Furfix stainless steel ties to the existing, with the cavities made continuous with existing. The dpc is to be 150mm above the adjacent finished ground level and linked with the existing, cavities closed with Thermabate or similar approved cavity closer.

WINDOWS & VENTILATION

The windows and doors are to have a U value of 1.6 and be UPVC double glazed with 16mm air gap and a "soft" low-E coating and draught stripped with trickle ventilation of 8000mm² and opening lights minimum 5% floor area of the room. Glazing to doors and side panels within 1500mm and windows within 800mm of the floor must laminated or toughened safety glass and marked according to BS 6206. Mechanical ventilation provided to kitchen, bathroom & En-suite of 60L/sec and 30L/sec respectively and ducted to the external air. All new first floor windows to habitable rooms to be provided with escape windows a minimum area 0.33m² with a minimum clear opening height and width of 450mm (ie. minimum clear opening of 450mm wide and 750mm high) with the opening window between 800mm and 1100mm above finished floor level.

LINTELS

The lintels to be Catnic CG90/100 or similar approved to be insulated and have a minimum end bearing of 150mm with tray dpc over and weap holes at 450mm centres and with exposed internal faces covered with 12.5mm plasterboard and 5mm skim. The lintel over the rear doors is to be heavy duty and those over new opening at first floor level are to be Naylor R4 concrete lintels.

ROOF

The roof to be at the same pitch as the existing (45 degrees) with pan tiles to match the existing in colour and texture on 38mm x 20mm tanalised battens on Kingspan nil-vent breathable untearable sarking felt on 47mm x 125mm C16 rafters at 400mm centres with 75mm x 200mm C16 purlins at mid-span, 225mm x 50mm hip rafters and 38mm x 150mm ridgeboard, ceiling joists to be 47mm x 170mm C16 at 400mm centres with 50mm x 75mm hip ties running at right angles across the top of the ceiling joists at every other rafter to the hip sides, 50mm x 100mm dragon ties to hip corners. Rafter feet and ceiling joists seated on wallplate to inner leaf tied down to blockwork with 30mm x 5mm galvanized steel straps at 1.8m centres. Ceiling joists underdrawn with 12.5mm plasterboard and 5mm skim, two layers of fibreglass one of 200mm laid between the joists and one of 150mm laid at right angles. The fascia board and soffit are to be upvc to match the existing and proprietary box ventilation fixed between rafters to maintain 50mm air space over insulation. The eaves gutter and 65mm downpipe in upvc to match existing.

This elevation of the roof is to be tiled using the existing tiles from the rear area of roof if possible.

The roof area over the bathroom is to be re-tiled using same tiles but with Kingspan felt as per new roof.

Proposed Side Elevation

GENERAL

These Plans are to be used for Planning and Building Regulations purposes only. The contractor shall ensure that all works comply with the Planning consent and the Building Regulations and that all materials are fixed in a workmanlike manner and in accordance with the relevant British Standard Codes of Practice and in accordance with the manufacturers recommendations. The contractor is to be responsible for checking and verifying all levels and dimensions on site and for submitting the relevant notices at the appropriate stages to the local authority for inspection of work. The contractor to verify with the client the position and number of, socket outlets, switches, lighting points, radiators and similar fitting before commencement of work on site.

Drawing No. 24CS/11/02

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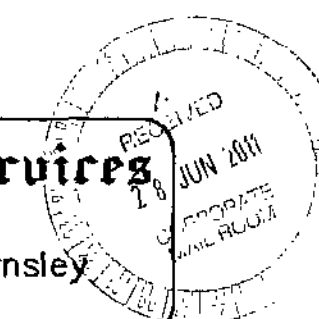
Project Proposed Elevations

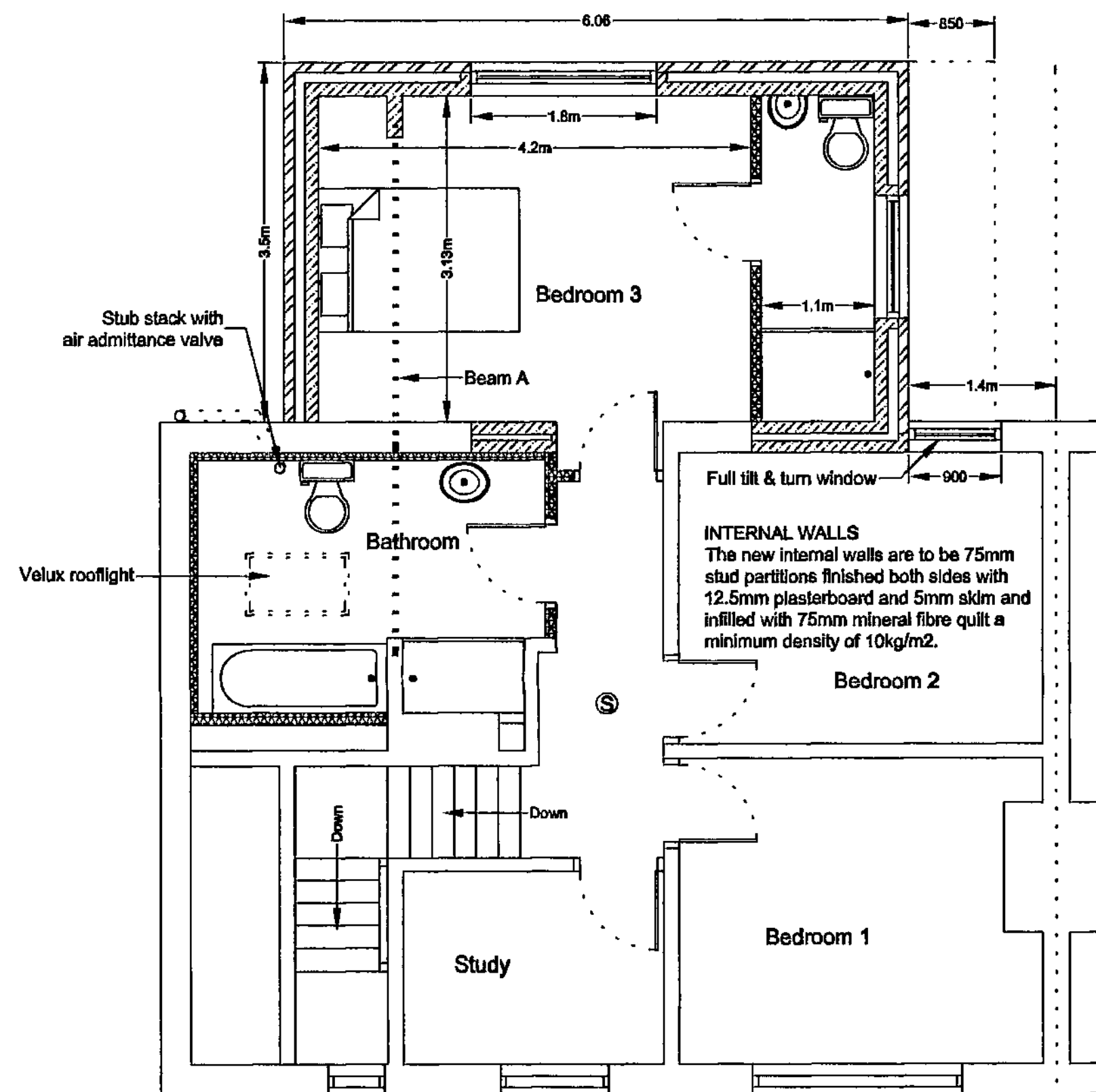
Scale 1 : 50

Date June 2011

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Proposed First Floor Plan

GROUND FLOOR

The new floor is to be 22mm t&g boarding on 47mm x 170mm C16 timber joists at 400mm centres supported on existing and new wall. The floor is to be insulated with two layers of 60mm Kingspan Kooltherm K3 suspended between the joists. The under floor ventilation is to be provided with air bricks giving a free air space equal to 1500mm² per metre run of wall. The air bricks are to have cavity liners and a tray dpc. The air space between the top of the oversite concrete and the underside of the joists is to be a minimum 150mm. The oversite concrete to be 100mm thick on 150mm layers of well consolidated hardcore. The Radon barrier to be MONARFLEX RMB 300 reinforced polythene Radon barrier/DPM (or other equal and approved) under the oversite concrete and taken through whole of new ground floor walls linked with cavity wall dpc's, all joints and pipe penetrations in the barrier are to be taped using self adhesive butyl tape.

FIRST FLOOR

The floor is to be at the same level as the existing floor with 22mm floorboarding on 50mm x 195mm C16 timber joists at 400mm centres with herring bone strutting at mid-span and doubled up under any first floor walls. The floor is to be insulated with 100mm mineral fibre quilt minimum density of 10kg/m² laid between joists and under drawn with 12.5mm plasterboard and 5mm plaster skim. Where floor joists run parallel to wall 38mm x 5mm steel strap to be provided spanning a minimum of three joists with timber noggins between joists and bent down cavity a minimum of 450mm.

BATHROOM

The external bathroom walls are to be lined with 42.5mm Kingspan Kooltherm K17 dry-lining board and finished with skim. The sloping area of ceiling to the bathroom (Existing rafters 100mm deep) is to have 25mm battens fixed to the underside of the existing rafters and 75mm Kingspan thermapitch fixed between the rafters with 50mm air space over, then 50mm thermapitch fixed under the rafters and finished with 12.5mm plasterboard and skim. The sloping area is to be re-roofed using the same tiles and with Kingspan nil-vent breathable felt as per new roofs.

DRAINAGE

The new drains to be 100mm flexible jointed pipes (Hepsleve or similar) laid to minimum fall of 1 : 40 with 150mm pea gravel surround in accordance with BS 8301. gullies to be back inlet and fitted with an internal rodding access. Inspection chambers to be either proprietary Upvc to a maximum depth of 1m or 225mm class B engineering bricks on 150mm concrete base with heavy duty cover. The 100mm soil vent pipe is to extend a minimum 900mm above any opening window, stub stack to extend 300mm above highest fitting. The waste pipes are to be 40mm to Bath & shower and 35mm to wash basin, all to be fitted with deep seal anti-vac traps. The surface water is to be taken to a soakaway if the ground conditions are suitable and the foul taken to the existing system.

EXTERNAL WALLS

To be cavity wall construction with external leaf of brick to match existing with 100mm cavity with 50mm Kingspan Kooltherm K8 insulation wall batts fixed to internal leaf of 100mm ThermaLite shield blocks. Walls ties to be 5 number per metre square and 225mm vertical centres to reveals, stainless steel double triangle to BS 1243. The internal wall to be finished with 15mm two coat gypsum plaster or 12.5mm plasterboard on dabs. The blockwork and brickwork to be either block bonded or tied using Furtix stainless steel ties to the existing, with the cavities made continuous with existing. The dpc is to be 150mm above the adjacent finished ground level and linked with the existing, cavities closed with Thermabate or similar approved cavity closer.

WINDOWS & VENTILATION

The windows and doors are to have a U value of 1.6 and be UPVC double glazed with 16mm air gap and a "soft" low-E coating and draught stripped with trickle ventilation of 8000mm² and opening lights minimum 5% floor area of the room. Glazing to doors and side panels within 1500mm and windows within 800mm of the floor must be laminated or toughened safety glass and marked according to BS 6206. Mechanical ventilation provided to kitchen, bathroom & En-suite of 60L/sec and 30L/sec respectively and ducted to the external air. All new first floor windows to habitable rooms to be provided with escape windows a minimum area 0.33m² with a minimum clear opening height and width of 450mm (ie. minimum clear opening of 450mm wide and 750mm high) with the opening window between 800mm and 1100mm above finished floor level.

LINTELS

The lintels to be Catnic CG90/100 or similar approved to be insulated and have a minimum end bearing of 150mm with tray dpc over and weep holes at 450mm centres and with exposed internal faces covered with 12.5mm plasterboard and 5mm skim. The lintel over the rear doors is to be heavy duty and those over new opening at first floor level are to be Naylor R4 concrete lintels.

Steelwork

The new steelwork to structural engineers design with minimum half hour fire resistance, 12.5mm fireline plasterboard and 5mm skim.

ALARM DETECTION SYSTEM

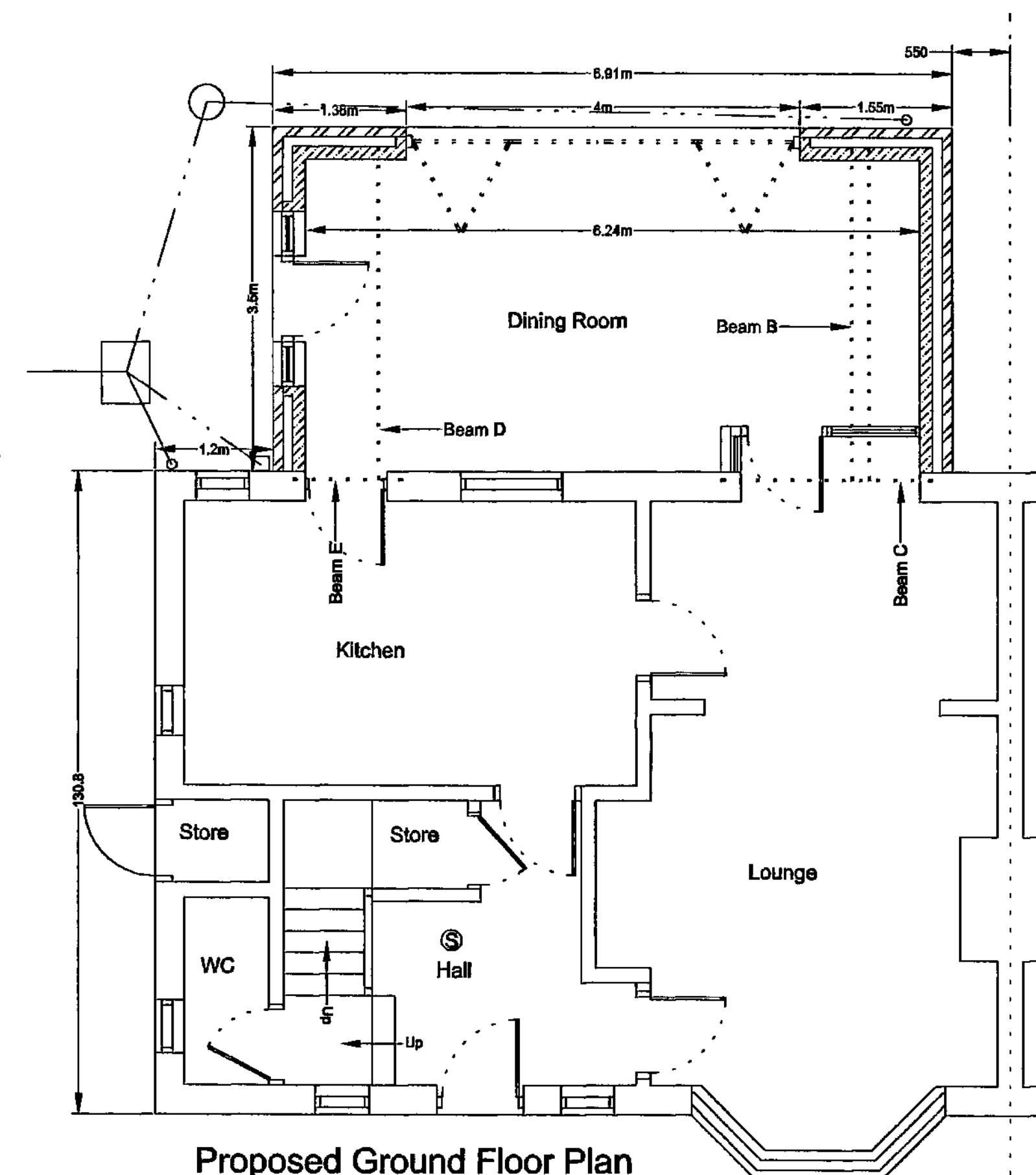
Provide interconnecting smoke alarms with battery backup to comply with BS 5446:Part 1 in the positions indicated. Smoke alarms to be permanently wired into a fused circuit.

ELECTRICAL

The electrical contractor must be registered under the "Competent person scheme" and will be required to provide full certification for design, inspection and testing of all the electrical work carried out on this project.

Heating & Hot Water

The existing heating and hot water system are to be checked, serviced and extended by qualified Gas Safe engineer and certified on completion. All new radiators are to be fitted with thermostatic valves and all pipes in unheated areas are to be insulated to the current standards.



Proposed Ground Floor Plan

GENERAL

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Drawing No. 24CS/11/03

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Address 24 Cross Street
Monk Bretton
Barnsley
Project Proposed Floor Plans
Scale 1 : 50 Date June 2011

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