

**ROOF VENTILATION**  
Provide to soffit around dwelling 125 x 400mm slots for roof ventilation, to be at maximum 2400mm c/c. Position internally flyproof gauze.

**WALL CONSTRUCTION**  
270mm cavity walls to consist of:- 110mm face brickwork (see site plan for details), 50mm cavity to be filled with Crown Detherm full fill insulation in accordance with BBA Certificate No. 86/1678 or similar approved, 110mm internal skin of Thermalite Shield blockwork. Cavity walls tied together using galvanized iron or plastic twist ties spaced 900mm horizontally and 450mm vertically to BS1243 1978. Internal blockwork walls to be same as above. All internal walls to receive 10mm sand/cement render and skim finish.

**BOILER**  
Provide balanced flue type oil fired boiler of required rating in to be either a wall hung type or freestanding on 125mm high concrete hearth above oversite. Boiler to have protective guard cover and to be minimum 600mm from any opening into the building. Read in conjunction with Approved Document J1/2/3.

**ROOF INTERSECTIONS**  
If compound truss used, where main trusses fix to compound, truss provide proprietary truss connectors. Provide 32 x 175mm valley lay boards and fix reducing trusses over to complete roof intersection. Fix in accordance with roof truss manufacturers instructions.

**FLUE CONSTRUCTION**  
Provide 225mm diameter clay flue liners to BS1181 1971 with minimum 100mm brick surround. Flue to extend past ridge as stated in Approved Document J1/2/3 Part B and to terminate in 75mm concrete capping and clay pot. Provide Code 4 lead flashing to roof intersection. Provide 2 no. courses of engineering brick or similar as d.p.c. No timber to be within 40mm of chimney. Chimney also to be read in conjunction with Approved Document A1/2 Section 1D.

**COMBUSTION AIR**  
Provide proprietary ventilator to room of open fire at low level to outside air (ideally opposite open fire) to give combustion air equivalent to 50% the cross sectional area of the throat opening on the appliance. Alternatively provide proprietary underground ducting from appliance to outside air to give above.

**METER BOXES**  
Position gas and electricity meter boxes if required in external position to suit client. To be completely sealed around in a non-combustible material. To be minimum 500mm, maximum 1000mm above footpath to base.

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**ROOF CONSTRUCTION**  
Concrete interlocking roof tiles (see site plan) on 38 x 25 softwood treated timber battens on underfelt to BS747 (Type 1F) lapped 150mm horizontally and 100mm vertically. Prefabricated roof trusses at 600mm c/c and pitch as stated in accordance with BS5268 Part 3, 1985. Provide 25 x 100mm timber bracing and fix in accordance with truss manufacturers instructions. All trusses and gable ladders (if any) to be strapped to 50 x 100mm timber wallplate, the gable wall at verges and ceiling level with 30 x 5mm mild steel anchor and lateral restraint straps to span minimum 3 no. trusses at a maximum of 1200mm c/c. At strap positions provide pack and noggins to trusses. Main contractor to supply local authority building control with roof truss calculations 28 days prior to erection on site.

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**KITCHEN VENTILATION**  
Provide proprietary mechanical extract ventilation unit capable of extracting 60lts/second. Alternatively provide proprietary cooker hood capable of extracting 30lts/second.

**BATHROOM VENTILATION**  
Provide proprietary mechanical extract ventilation unit capable of extracting 15lts/second. System to offer intermittent operation.

**HOT WATER STORAGE**  
Provide system approved by BBA and install by BBA approved installer. System to be vented and insulated in accordance with BS5615 1985. Provide thermostatic control.

**HEATING SYSTEM**  
Provide room thermostat or thermostatic radiator valve or similar approved to control the output from the heating system.

**INSULATED PIPES AND DUCTS**  
All pipes which do not contribute to the heating of the building will be insulated to BS5422 1977.

**SAFETY GLAZING**  
Provide safety glass to BS6206 to all windows to a minimum height of 800mm above floor level plus doors to a minimum height of 1500mm above floor level. Side screens to be same as doors if within 300mm of doors.

**SMOKE DETECTION**  
Provide mains operated self-contained smoke alarms to BS5446 Part 1 in accordance with Approved Document B1

**RAINWATER GOODS**  
P.V.C. rainwater goods 110 half round gutters and 68mm diameter downpipes.

**LINTELS**  
All coded lintels as stated in Schedule or marked on plan to be by to be installed in strict accordance with manufacturers instructions. Form d.p.c. cavity tray above all lintels. To all exposed lintels i.e. not sheltered from overhanging eaves, etc. to have proprietary weepholes to joints of brickwork at approx. 450mm c/c.

**SUBSTRUCTURE WALLING**  
100mm Class A dense concrete blocks. Butumen felt d.p.c. to external walls 150mm above ground level. Weak mix infill to base of cavities to terminate 225mm below lowest d.p.c. level.

**FOUNDATIONS**  
As indicated on plan provide concrete strip foundations. To cavity walls provide 700mm wide x 225mm thick and to 100mm walls provide 450mm wide x 225mm thick, unless noted otherwise. To non-loadbearing internal walls thicken out ground floor oversite concrete to 450mm wide x 200mm thick. Widen foundations at chimney breast accordingly and make 300mm thick. Foundations to taken down to an approved firm base, subject to local authority specifications. Concrete to be ST3 grade unless noted otherwise.

**JOINERY**  
All coded joinery as stated in Schedule or marked on plan by (OC) denotes items handed. All windows to be double glazed sealed units except to garage.

**HABITABLE ROOMS AND KITCHENS**  
Provide proprietary trickle ventilators to head of window giving a total opening area of not less than 2000mm<sup>2</sup>

**FOUL WATER DRAINAGE**  
Underground drainage to be proprietary 110mm diameter P.V.C. pipes flexible jointed to fall 1:70 bedded in 100mm pea gravel. Under building drains to be encased in 150mm pea gravel with lintel over pipes at wall abutments. Surround pipes at wall abutments with 50mm compressible material. 110mm diameter soil and vent pipe to extend 900mm above window head and to terminate in balloon finial. Soil and vent pipe to be fitted with access plate at base. Provide suitably sized wastes from all appliances (in accordance with Approved Document H) complete with minimum 75mm deep sealed traps and rodding eye access points at every direction change. All above ground drainage to BS5582 and all underground drainage to BS6301.

**SURFACE WATER DRAINAGE**  
To be proprietary 110mm diameter P.V.C. pipes flexible jointed to fall 1:70 bedded in 100mm pea gravel. Pipes to discharge into 1200mm diameter soakaways sited 5000mm away from buildings.

**PROTECTION TO UNDERGROUND PIPES**  
Where pipes are not under road and have less than 600mm cover concrete paving slabs should be laid as bridging above the pipes on minimum 75 pea gravel. If flexible pipes are under a road and have less than 900mm cover reinforced concrete bridging should be used instead of paving slabs.

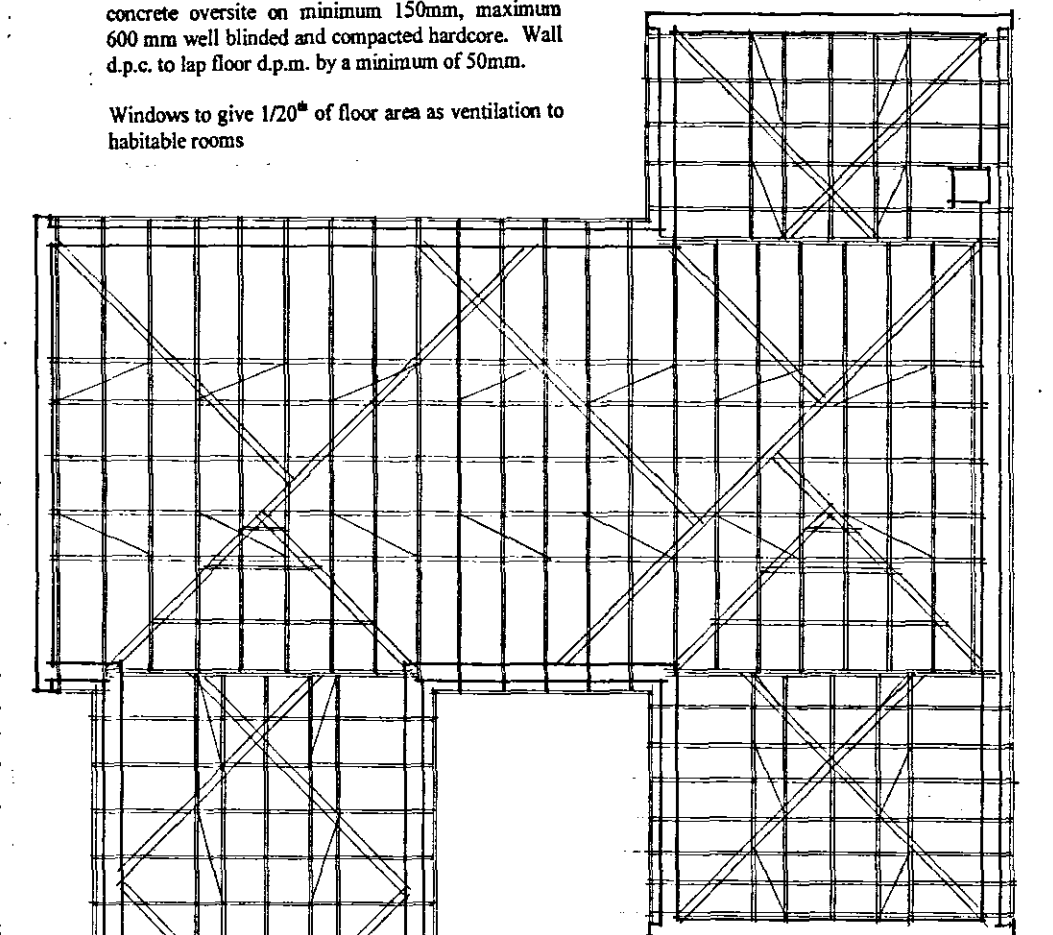
**INSPECTION CHAMBER CONSTRUCTION**  
Proprietary polypropylene inspection chambers bedded on 150mm concrete. Form protective 255mm thick concrete collar around head of inspection chamber with 300mm projection from cover. Covers to be Grade C light duty unless inspection chambers are in driveways where Grade B medium duty covers are to be used.

**OPEN FIRE**  
To be capable of burning smokeless fuel. Hearth to be 125mm high above finished floor level. Flue liners to BS1181 1971 (sockets up). Build into brick jambs of open fire 2 no. metal anchorage points.

**Utility Ventilation**  
Provide proprietary mechanical extract ventilation unit capable of extracting 30 lts/sec. System to offer intermittent operation.

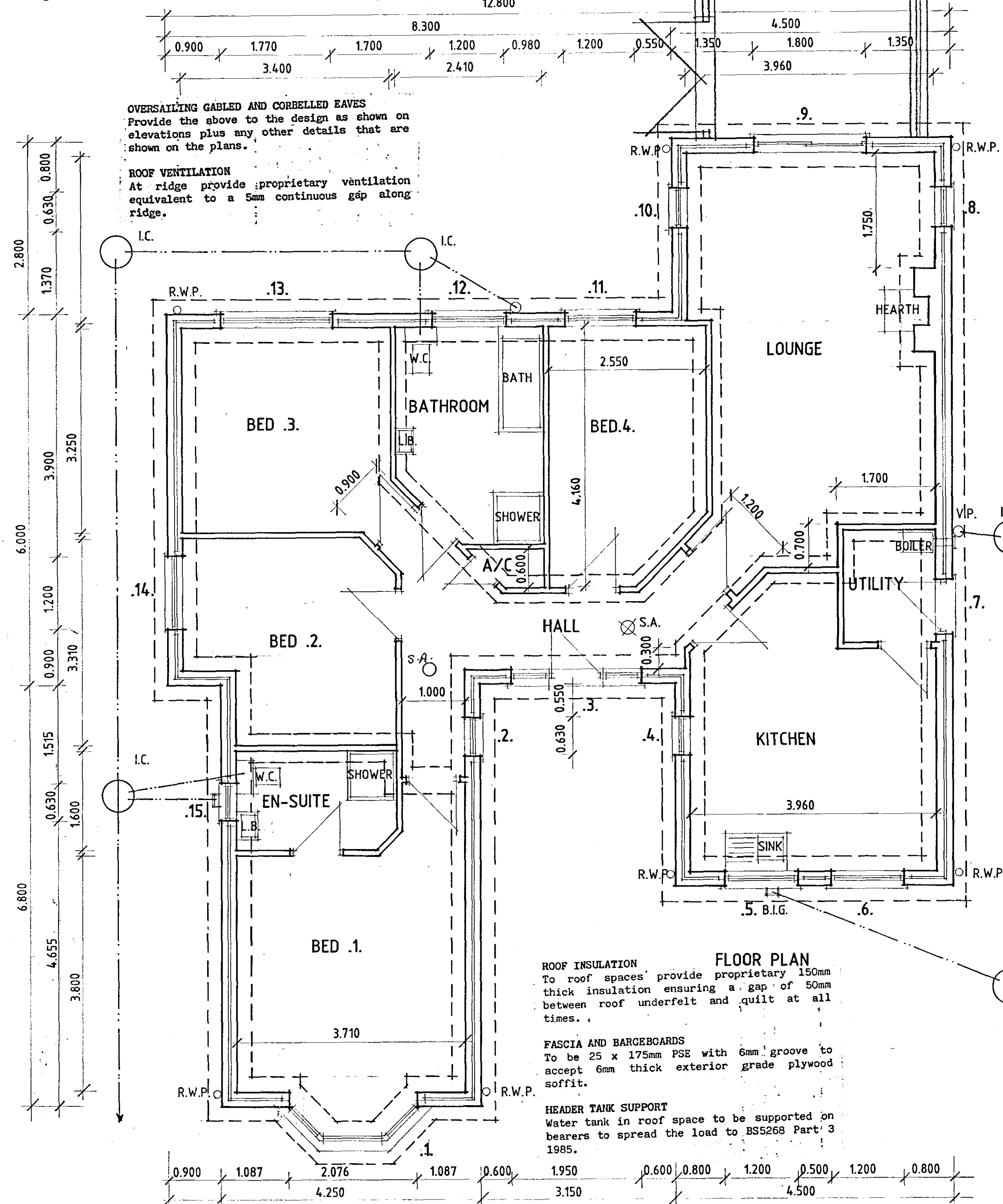
**Ground Floor Construction**  
65mm sand/cement screed on proprietary 50mm thick floor insulation with perimeter insulation to screed on 1200 gauge polythene d.p.m. on 100 mm concrete oversite on minimum 150mm, maximum 600 mm well blinded and compacted hardcore. Wall d.p.c. to lap floor d.p.m. by a minimum of 50mm.

Windows to give 1/20<sup>th</sup> of floor area as ventilation to habitable rooms



ROOF PLAN

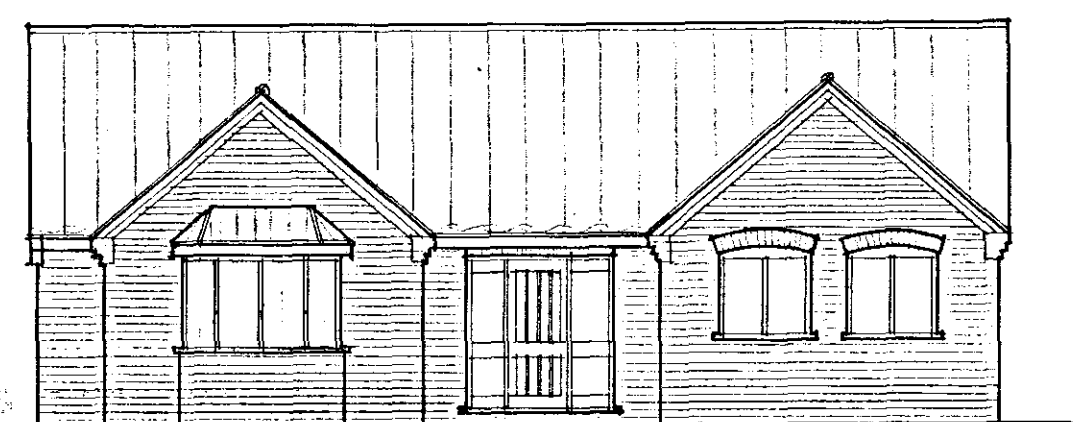
**SPLAY BAY WINDOW ROOF CONSTRUCTION**  
Concrete interlocking tiles on battens - all as main - on made-on-site roof comprising of:- 38 x 75 rafters, 38 x 100 hip rafters, 38 x 75 jack rafters and 38 x 75 ceiling ties. Build ceiling ties and rafters into wall min. 100 mm or fix into m.s. joist. Provide roof insulation and plasterboard + skim finish as main.



Provide a firm level approach to front entrance of minimum width 900mm. Gradient of approach to be no steeper than 1:20. At entrance to building threshold to be maximum 150mm high.

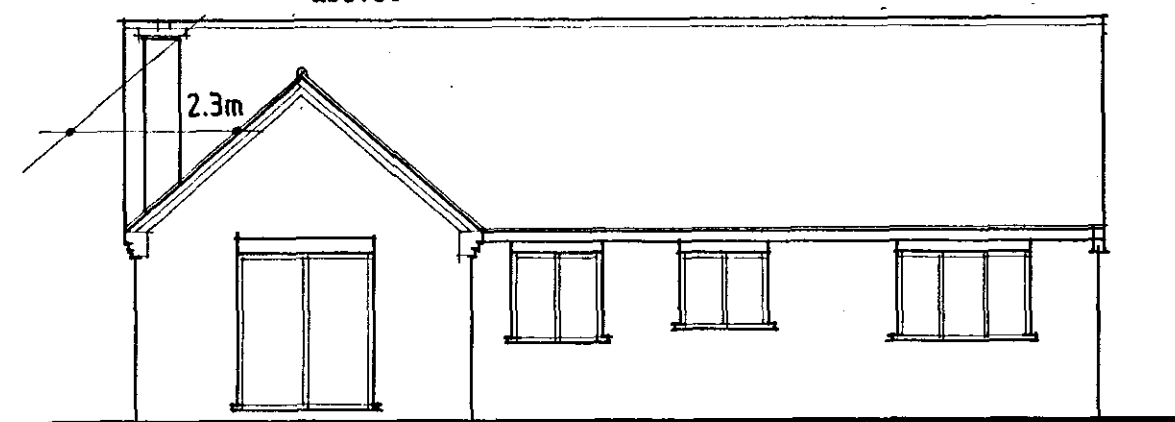
Front entrance door and door into WC/Bathroom compartment to give minimum 800mm clear opening width.

Ensure minimum 900mm corridor width, access to ground floor WC with no obstructions (radiators, etc.) adjacent WC access door.

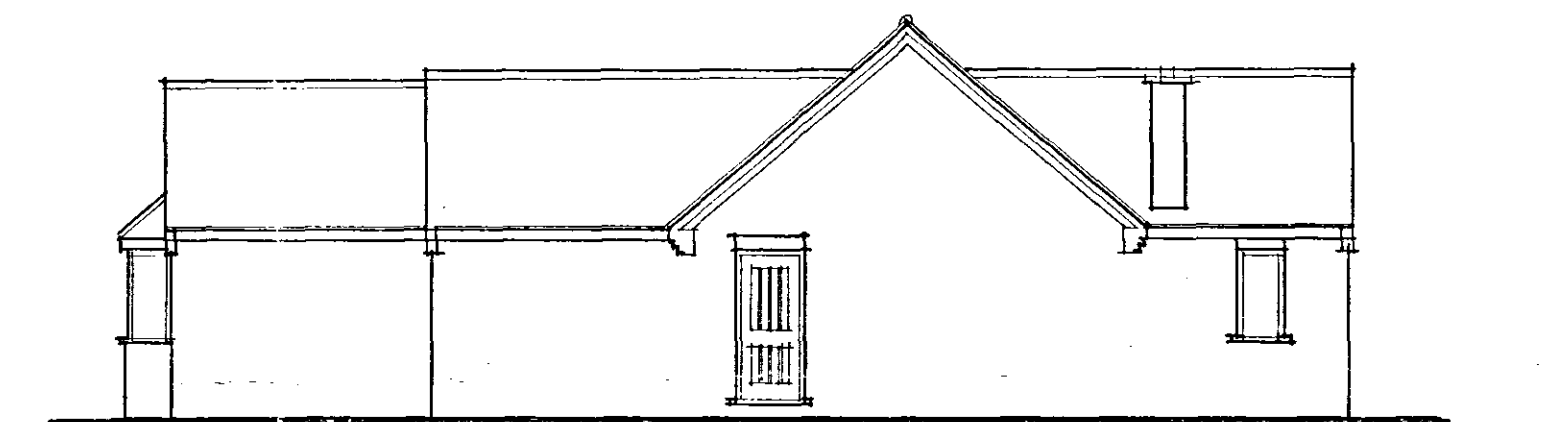


FRONT

**CEILINGS**  
To all insulated roof ceilings provide 12.5mm Gyproc Duplex plasterboard or similar and either 5mm skim or Artex finish. To remaining ceilings provide 12.5mm Gyproc plasterboard or similar with finishes as above.

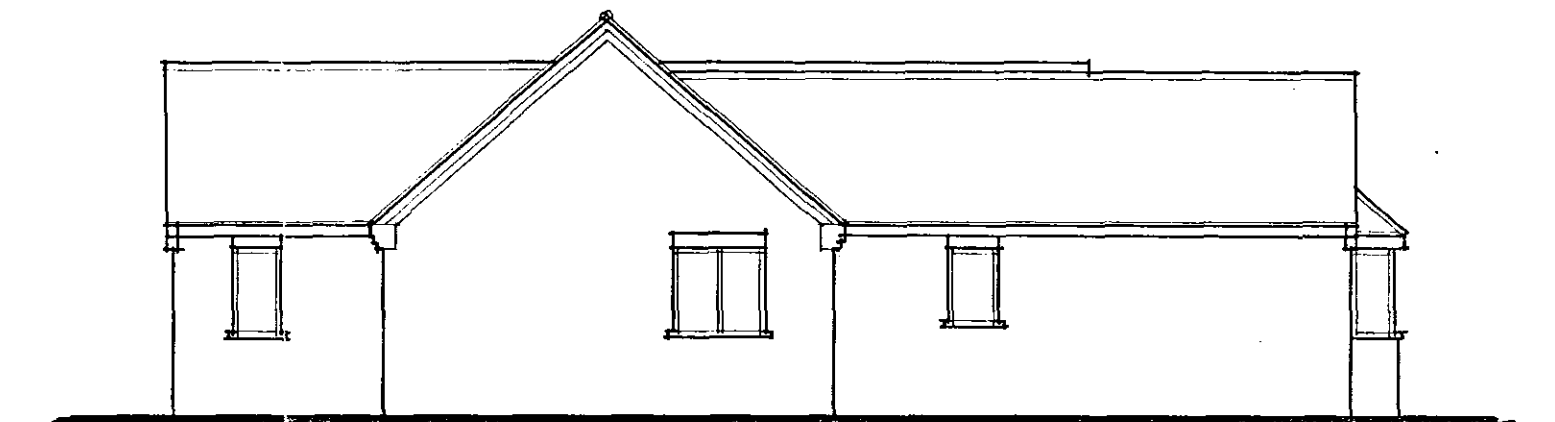


REAR



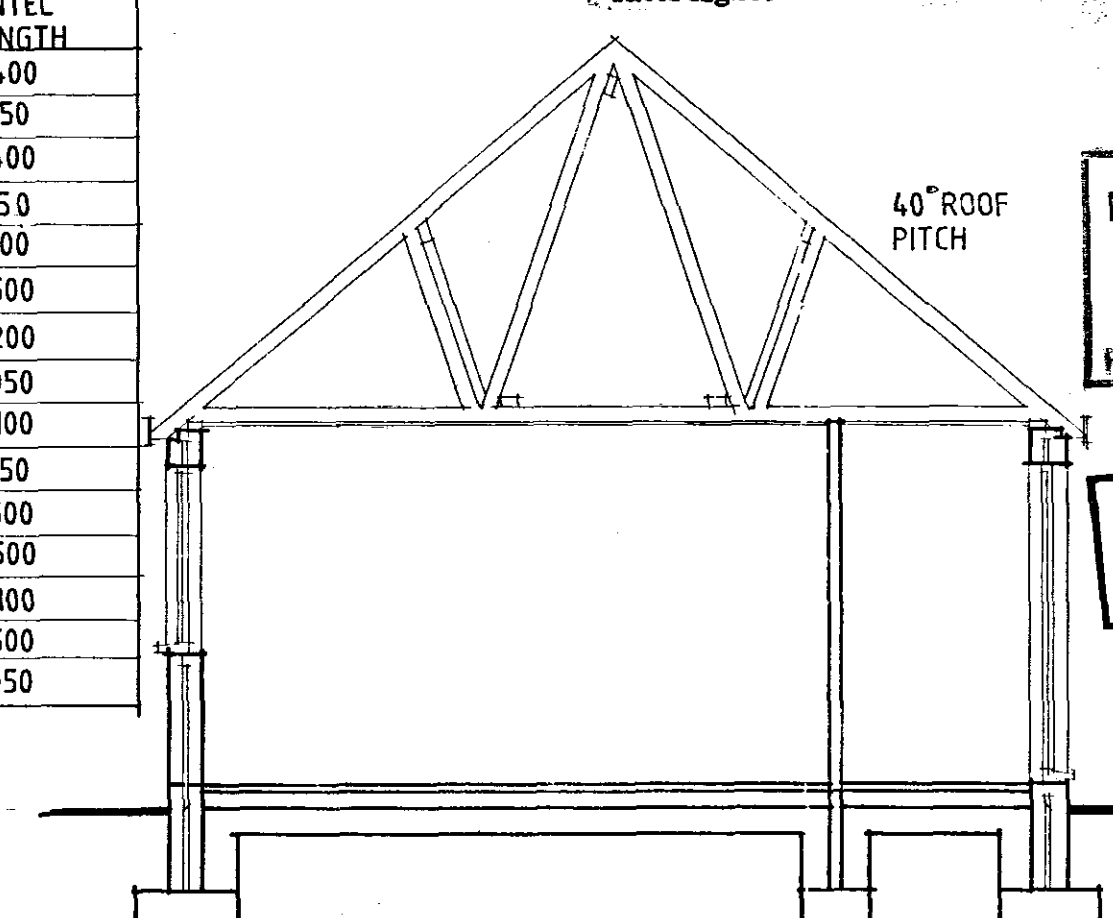
SIDE

**REVEALS**  
Ensure the path through all window and door reveals, including lintels, is limited to a minimum 'U' value of 1.2W/m<sup>2</sup>K. also at every closure of cavity provide d.p.c.



SIDE

**VALLEYS**  
Use proprietary fibreglass valleys or provide Code 4 lead to valleys to make completely watertight.



SECTION

| LINTEL / JOINERY REF. |                              |          |               |
|-----------------------|------------------------------|----------|---------------|
| No                    | JOINERY REF.                 | LINTEL   | LINTEL LENGTH |
| 1.                    | SPRFR-112C/212C /112C ( OC ) | I.G-LI/S | 2400          |
| 2.                    | 110C                         | "        | 1050          |
| 3.                    | SPECIAL/POERTCULLIS          | "        | 2400          |
| 4.                    | 110C ( OC )                  | "        | 1050          |
| 5.                    | 210C                         | "        | 1500          |
| 6.                    | 210C ( OC )                  | "        | 1500          |
| 7.                    | FNS-PORTCULLIS               | "        | 1200          |
| 8.                    | 112C                         | "        | 1050          |
| 9.                    | PATIO DOOR                   | "        | 2100          |
| 10.                   | 112C ( OC )                  | "        | 1050          |
| 11.                   | 212C                         | "        | 1500          |
| 12.                   | 210C ( OC )                  | "        | 1500          |
| 13.                   | 312CC                        | "        | 2100          |
| 14.                   | 212C                         | "        | 1500          |
| 15.                   | 110C                         | "        | 1050          |

JOHN CARR JOINERY.  
I.G. INT. LINTELS.  
TO WINDOWS 5 & 6 PROVIDE  
UNIVERSAL ARCH.

B - B.R. ALTS - 23.9.02  
A - N.H.B.C. ALTS - 3.9.98

**Status**  
CONSULTANTS IN ARCHITECTURE & PLANNING

SHDC  
Planning & Development  
19 SEP 2008  
Ref: 1010107

**DETERMINED PLAN**

DON.

1:50 1:100 APRIL-95

B.GILHAM.

A - GEN ALTS - 7.12.95

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