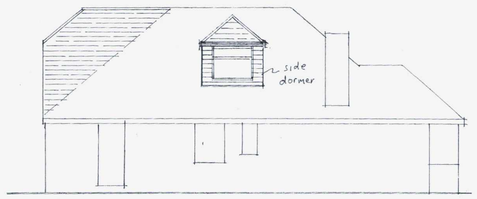
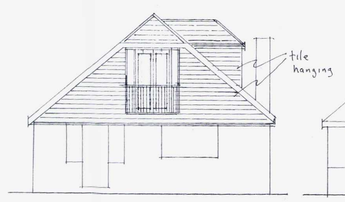
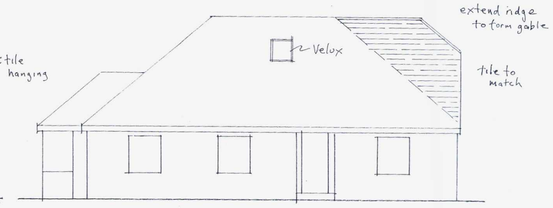
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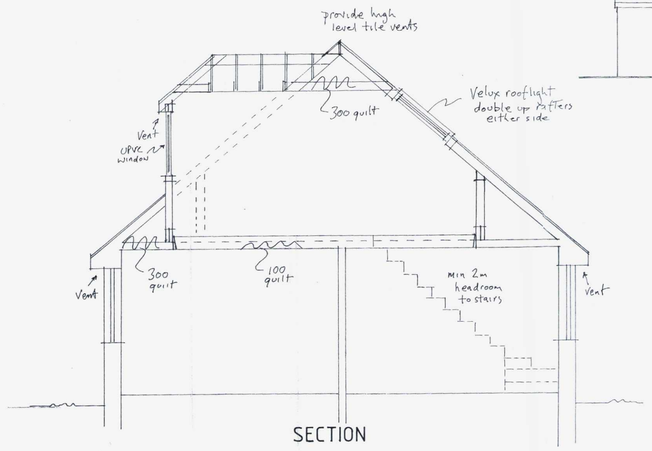

SIDE ELEVATION (N)



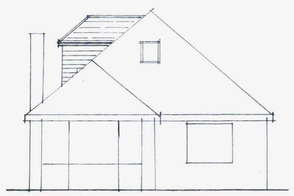

REAR ELEVATION



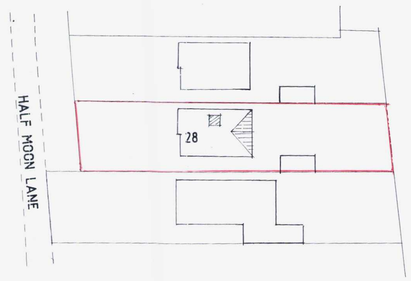

SIDE ELEVATION (S)



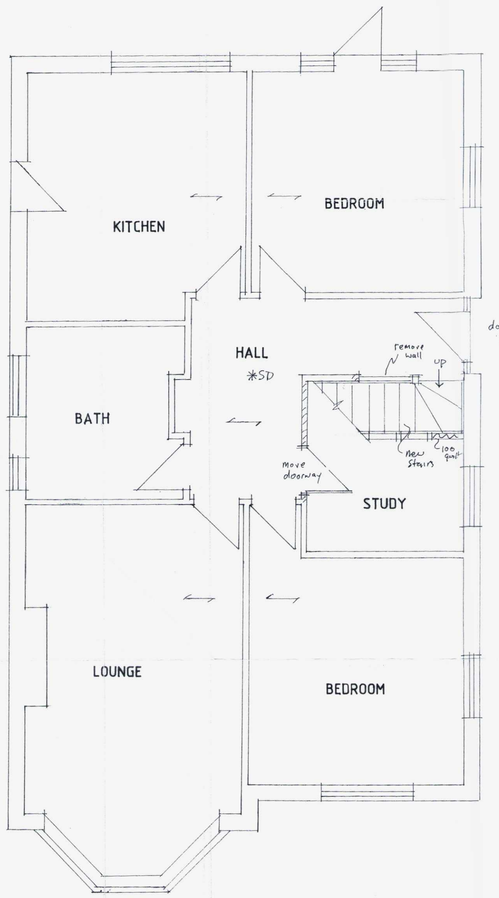

SECTION



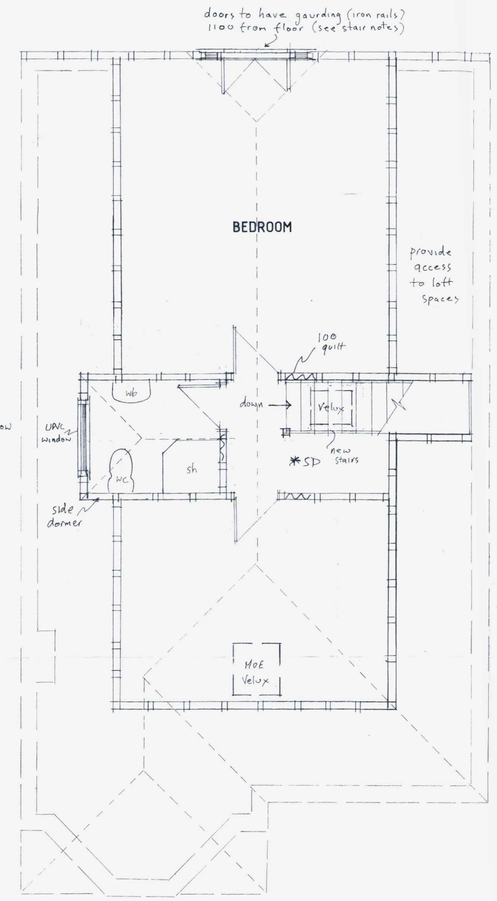
FRONT ELEVATION




BLOCK PLAN Scale 1:500




GROUND FLOOR PLAN




FIRST FLOOR PLAN

**THIS DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERS CALCULATIONS AND RECOMMENDATIONS**

**ALL FOUNDATIONS TAKEN ADDITIONAL LOADS ARE TO BE EXPOSED AND CHECKED FOR ADEQUACY AND SUITABILITY FOR GROUND CONDITIONS PRIOR TO COMMENCEMENT OF WORKS.**

**All existing lintels taking additional loads are to be exposed and checked for adequacy on commencement of work and replaced if necessary. Careful inspection is to be carried out prior to the removal of any structural elements to ensure proper and adequate support is provided and maintained by new works.**

**All building work is to be carried out in accordance with all current building regs and codes of practice in force at this time.**

**Any parts of structure covered over or inaccessible have not been inspected and no responsibility is accepted for these areas including underground.**

**All electrics, heating, plumbing and decorations to be altered/extended all to client's choice.**

**These construction notes are for the purposes of Building Regulation approval only and do not represent a detailed specification.**

**All lengths of proposed beams to be measured on site prior to ordering, to verify structural engineer's dimensions.**

**New floor to be 22mm T & G flooring grade chipboard on joists with strutting at mid span as indicated on plan. All existing ceilings are of 12.5mm plasterboard and 5mm neat gypsum plaster and finish to provide the modified ½ hour fire resistance required.**

**Internal stud partition walls as shown to be constructed of minimum 100 x 50mm studding at 400mm centres with sw base and head plates and cross noggings at maximum 1200mm centres. Studding faced both sides with 12.5mm plasterboard finished with set. Walls supported off doubled up floor joists where running parallel with floor joists.**

**Dwarf stud partition to be of minimum 100 x 50mm studding at 400mm centres with sw base and head and cross nogged. Install 70mm Celotex tuff-R GA3000 insulation between studwork (leaving a 30mm cavity). Internally fix 12mm Celotex T-Break TB3000 over studs with 1000 gauge polythene vapour barrier and 12.5mm plasterboard with set finish. Providing a U value of 0.28 W/m²K.**

**All skeilings to be insulated with 75mm Celotex tuff-R GA3000 insulation between rafters (Use battens to underside of rafters in order that a 50mm airflow is achieved over the insulation). Fix Thinsulex Multi-foil insulation system fixed to underside of rafters, all joints foil taped. Minimum 25mm thick cross battens at 400mm centres. Ceiling lined with 1000 gauge polythene and 12.5mm plasterboard with set finish. Providing a U value of 0.18 W/m²K. (This construction method has LABC system approval)**

**Ridge or high level tile ventilators to be installed to assist cross ventilation of roof space. To be equal to a continuous strip of 5mm wide.**

**Provide ventilation to the existing soffit equivalent to a 25mm continous ventilation strip fitted with a fly screen.**

**Access doors into roofspaces should be backed with 80mm Celotex insulation and be fitted with draught strips.**

**The building fabric should be constructed so that there are no reasonably avoidable thermal bridges in the insulation layers caused by gaps within the various elements,at the joints between elements and at the edges of the elements such as those around window and door openings. Reasonable provision should also be made to reduce unwanted air leakage through the new envelope parts.**

## Dormer & Gable Walls

**Dormers to be constructed of 100 x 50mm studding at 400mm centres with 100 x 100mm posts at corners and window jambs. Studding to be lined externally with plain tile hanging of colour to match main roof on 38 x 19mm battens and breather paper (Sisalkraft) on 12.5mm sheathing ply. Install 70mm Celotex tuff-R GA3000 insulation between studwork (leaving a 30mm cavity). Internally fix 12mm Celotex T-Break TB3000 over studs with 1000 gauge polythene vapour barrier and 12.5mm plasterboard with set finish. Providing a U value of 0.28 W/m²K.Rafters to be doubled up under dormer cheeks. Provide code 4 lead soakers and flashings as necessary. Dormer cheeks and Gable walls within 1.0m of the boundary to be lined externally with 12.5mm Superlux to achieve ½ hour fire resistance from both sides. SIDE FACING WINDOWS TO HAVE OBSCURE GLAZING AND ANY OPENINGS IN THE WINDOWS TO BE A MINIMUM OF 1700mm ABOVE FLOOR LEVEL.**

## Pitched Roof

**Tiles to match existing on 25 x 38mm sw treated battens on type 1F sarking felt to BS747 on SC3 grade rafters at max 400mm centres. 100 x 50mm wall plate strapped to walls at 2000mm centres using 30 x 5mm mild steel straps. SC3 grade ceiling joists at 400mm centres spiked to rafters. Fascia to match existing with soffit fitted with continuous 25mm vent and fly-proof screen. 175 x 25mm ridge, hip and valley boards. Insulate at ceiling level with 300mm Rockwool insulation quilt e.g. 150mm between joists and 150mm cross-laid. Ceiling lined with 1000 gauge polythene and 12.5mm plasterboard with set finish. Providing a U value of 0.15 W/m²K.**

## Ventilation

**All new windows to be double glazed timber or UPVC with 16mm air gap and a soft low-E coating, windows to provide openable ventilation area of not less than 1/20th of the floor area of the rooms which they serve, all fitted with a minimum 8000mm² trickle ventilator. Providing a U value of 1.6W/m²K.**

**Bath/Shower room to be provided with an extract fan capable of extracting not less than 15 litres per second, operated intermittently and ducted to external air. Mechanical vent to be ducted to the outside and to include cowl and all necessary weathering.**

**Velux rooflights to be fitted in accordance with manufacturers instructions, fitted with minimum 8000mm² trickle ventilator. Double up rafters either side. Providing a U value of 1.6W/m²K.**

## Foul Water Drainage

**All fittings to be provided with trapped waste pipes as follows:**

| | |
|---|---|
| **Shower** | **- 40mm diameter** |
| **Wash hand basin** | **- 32mm diameter** |
| **WC** | **- 100mm diameter** |

**All traps to be 75mm deep seal & all waste pipes are to be fitted with rodding access on tight bends. Common wastes or runs in excess of 1.7m long are to be fitted with anti-syphonic traps.**

**Extend existing SVP to terminate 900mm above any window opening within 3.0m and fit with PVC cage.**

**Soil and vent pipe or stub stack within the building to be fitted with a "Durgo" air admittance valve. This valve to be situated above the overflow of the highest appliance.**

**New inspection chambers/manholes to be proprietary plastic mouldings supplied by "Osma" or similar approved. Installed strictly in accordance with manufacturer's instructions.**

**All drains to be 100mm dia UPVC pipes laid and surrounded in pea beach to fall 1 in 40, provide concrete cover where invert is less than 450m.**

## Staircase

**Standard timber staircase with 220mm maximum rise, 220mm minimum going, 800mm width and layout as shown on plan. Pitch 42 degrees maximum. Openings in the vertical balustrade not to exceed 99mm. (i.e. a 100mm sphere cannot pass through any openings in the guarding) Minimum handrail height for stairs and landing to be 900mm. Handrail to be continuous top to bottom of flight, with no finger traps. Minimum headroom over pitch of staircase to be 2000mm, measured vertically above the pitch line. Minimum going at newel posts to be 50mm. ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO MANUFACTURE.**

## Beams

**Steel beams to be encased to provide ½ hour fire protection with encasing in 2 layers of 12.5mm plasterboard fixed to wooden cradles with Gypsum plaster finish; wire bound with 1.6mm wire at 100mm centres.**

## Glazing

**All glazing in critical locations to be of toughened or laminated safety glass in accordance with clause 5.3, BS6206; 1981.**

## Heating

**Heating to be controlled by room thermostat in living room and thermostatic radiator valve.**

## Smoke Detectors

**At least one number mains operated self-contained smoke alarm to BS 5446: Part 1 to be installed in the circulation space of each storey. All smoke alarms within each dwelling to be inter-connected, be permanently wired to a separate fused circuit at the distribution boards in accordance with IEE Regulations. All smoke detectors to have an alternative battery power supply. They may operate at a low voltage via a mains transformer. Smoke alarms must be installed within 7m of the living room and kitchen door, within 3m of all bedroom doors and within 15m of each other in corridors or landings. If ceiling mounted, smoke alarms should not be installed within 300mm of a light fitting. If wall mounted, smoke alarm should not be over radiator and should be fixed elsewhere within 150 and 300mm of the ceiling.**

## Electrical Works

**All electrical work required to meet the requirements of Part P (Electrical Safety) must be designed, installed, inspected and tested by a person competent to do so.**

**Prior to completion the council or approved inspector should be satisfied that Part P has been complied with. This may require an appropriate BS 7671 electrical installation certificate to be issued for the work by a person competent to do so.**

**Please be advised that problems may occur when fitting down lighters. The areas of concern relate to fire prevention, sound insulation and thermal insulation. Advice should be taken from the Building Control Officer to prevent incorrect installation.**

**Provide energy efficient light fittings to 75% of new locations with a luminous efficacy greater than 45 lamp lumens per circuit watt.**

## Water Supply

**A wholesome supply of mains water (drinking quality) to be provided to: Drinking water taps, washbasins, baths, showers, bidets, sinks, and toilets. In accordance with the requirements of the Water Supply (water fittings) regulations 1999.**

**Suitable quality water must be supplied to flushing toilets (i.e. recycled water, grey or harvested, can be used instead of wholesome water).**

**The fittings to all appliances must help prevent unnecessary water consumption.**

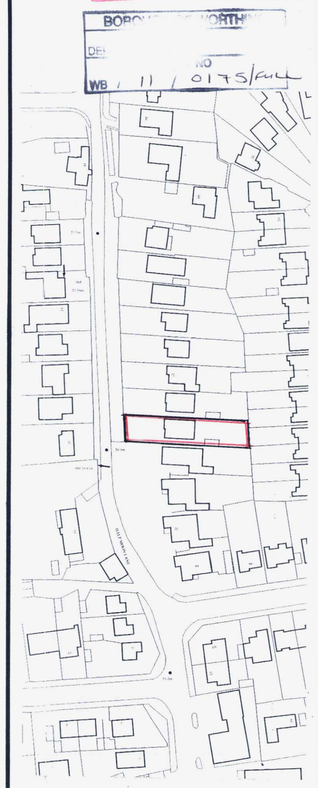
**Heated wholesome water must be supplied to washbasins, bidets, baths, showers and sinks.**

**Hot water systems must be designed, constructed and installed to prevent both accidents during normal use and possible malfunctions.**

**Hot water storage vessels must be installed to prevent the temperature exceeding 100°C.**

**Ensure discharge from safety devices safely convey water to places that are visible.**

**Hot water storage systems should be designed and installed in accordance with BS 6700 + A1 2009 indirectly heated unvented (closed) storage water heater should comply with BS EN 12897: 2006.**




LOCATION PLAN Scale 1:1250

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RICS

**Client**
Mr. PARSONS

**Job Title**
28 HALF MOON LANE
WORTHING

**Drawing Title:**
LOFT CONVERSION

**Scale:** 1:50 & 1:100

**Date:** Feb 2011

**Drawn by:** JW

**Drg No.** JW/11/015

**Rev.**