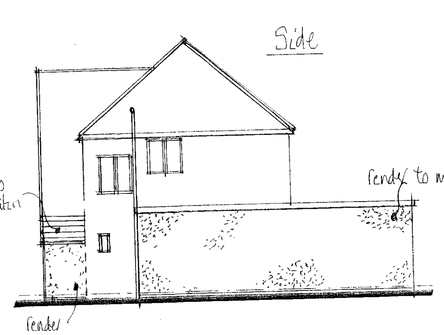
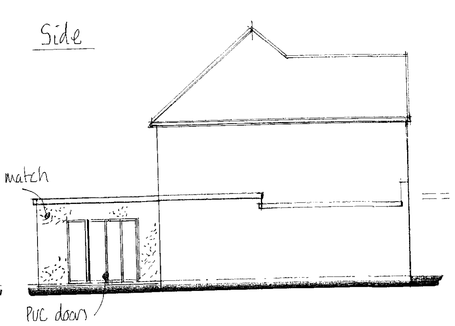
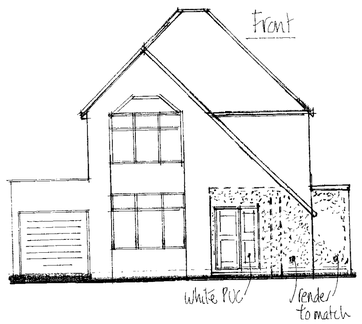
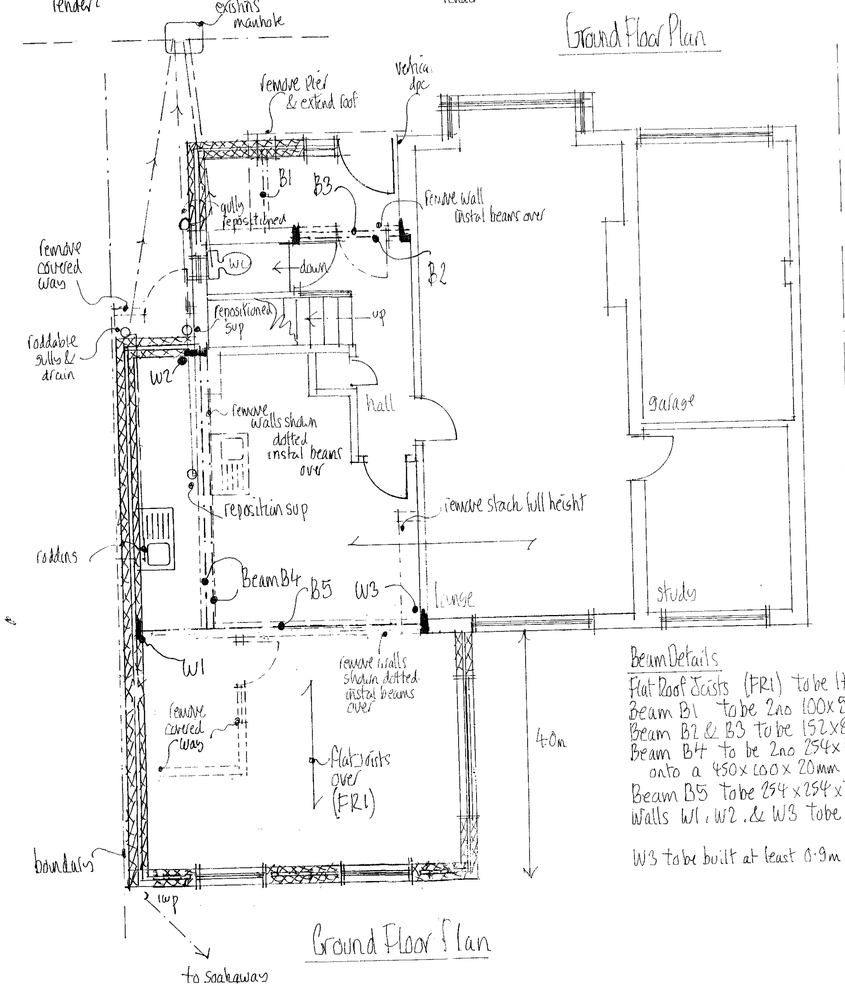
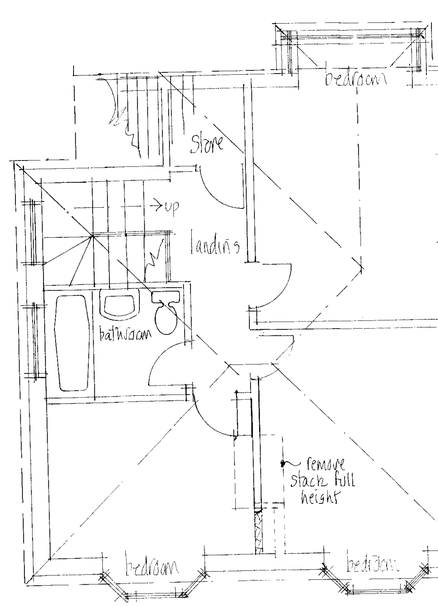








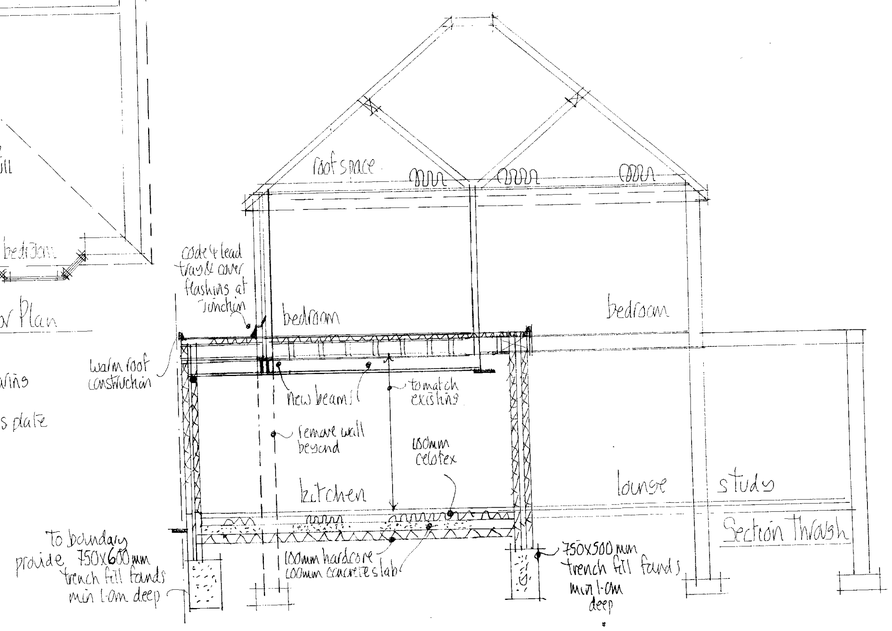




Beam Details

Flat Roof Joists (FR1) to be 175x50mm timbers at 400mm c/c.
Beam B1 to be 2no 100x50mm timbers
Beam B2 & B3 to be 152x89x16 UB
Beam B4 to be 2no 254x146x37 UB bolted to beam with 4no M16 ϕ bolts & bearing onto a 450x100x20mm m.s. plate.
Beam B5 to be 254x254x73 UC bearing each end onto a 450x100x20mm m.s plate
Walls W1, W2 & W3 to be 7.3 MN/m² blocks

W3 to be built at least 0.9m lap in 7.3 MN/m² blocks.



Building Regulation Notes

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. All foundations and lintels taking additional loads are to be exposed and checked for adequacy and suitability for ground conditions prior to commencement of work. The property owner is reminded of the requirement to serve a Party Structure Notice on any adjoining owner should they need to do so under the requirements of the Party Wall Act 1996.

Foundations
750mm x min 500 mm wide trenches fill (1:2:4 concrete mix). Foundations to be minimum 1.0m below ground level and at least to the level of any adjacent drains with the exact depth to suit site conditions.

Ground Floor
Minimum 75mm screed reinforced with chicken wire (mix 1:3 or 4), 100mm Celotex flooring, and 3 coats RIW dpm on 100mm concrete slab and blinded 100mm consolidated hardcore. Provide A193 mesh, 1m wide within oversite slab over any drain runs. Provide an insulated up stand to the perimeter of the floor. Any air bricks covered to be ducted through the oversite to external air via 100mm dia ducts.

External Walls
Cavity walls comprising rendered blockwork to match existing, 100mm cavity with 100mm Rockwool insulation cavity batts, inner leaf 100mm Thermalite or equal and approved block work min 3.5 N/mm². Render to be 2 coats of 10mm each of nominal mix of 1:1:6. All walls constructed using 1:1:6 mortars or 1:5 masonry cement mortars. Finished with 13mm lightweight plaster internally. Horizontal strip polymer (hyload) damp proof course in each leaf of new walls min 150mm above adjacent ground level in external leaf. DPC to be lapped with existing wall DPC and with floor DPM. Vertical DPC to be installed at all reveals where cavity is closed. Block work below ground level to be Class a dense concrete or alternatively semi engineering brickwork. Cavities below ground level to be filled with lean mix concrete up to ground level and min 225mm below damp proof course. Ensure that at all openings no cold bridging occurs by using a proprietary system such as Thermabate Closers, or similar approved. All walls constructed with stainless steel wall ties built in at 450mm centres vertically and 750mm centres horizontally in staggered rows. Doubled up at corners and reveals. Cavities closed at eaves level with slate and to be continuous. All external walls running parallel to roof to be restrained at roof level using 1000 x 30 x 5mm galvanised mild steel horizontal restraint straps built into walls at max 1200 centres and screw fixed to joists. Weep holes to be provided adjacent to ground level and over openings/cavity trays etc every third perpendicular Catnic or similar approved lintels to be used over door and window openings with min 150mm bearings.

Steel beams and supports
To provide at least ½ hour fire resistance, encased in 12.5mm Fireline board upon a timber cradle.

Pitched Roof to front extension
Tiles to match on 25 x 38mm sw treated battens on type 1F breathable sarking felt (tyvek or similar)to BS747. Rafters at max 400mm centres. Ceiling joists Rafters and 100mm x 50mm wall plate strapped down to walls using 1000 x 30 x 5mm mild steel straps at 1.2m centres. All skeilings to be insulated with 50mm Celotex, securely supported and battened to achieve a minimum airspace of 50mm over the insulation and under draw with a further 70mm of Celotex with 1000 gauge polythene vapour barrier between insulation and plasterboard.Fix 12.5mm plasterboard to skeilings. Roof to be ventilated with high-level tile ventilators to be installed to assist cross ventilation of roof space. To be equal to a continuous strip of 5mm wide.

Electrics
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 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.

Ventilation
New windows to provide open able 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. All glazing in those critical locations to be of toughened or laminated safety glass in accordance with clause 5.3, BS6206. Kitchen to be provided with an extract fan capable of extracting not less than 60 litres per second (or 30 litres per second if fitted within a cooker hood) which may be operated intermittently and ducted to external air. All new doors to be double glazed PVC with 16mm argon gas filled cavity and a hard coat low-E glass to achieve a u value of 1.6 W/m²K.

Foul Water Drainage
All fittings to be provided with trapped waste pipes as follows: Sink, shower & baths 40mm diameter Wash hand basin - 32mm diameter WC - 100mm diameter Common waste pipes to be 50mm 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. 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 diameter UPVC pipes laid and surrounded in 150mm of pea beach to fall 1 in 40, provide concrete cover where invert is less than 450mm. Any manholes installed within the building to be fitted with a doubled sealed screwed down cover.

Surface Water
Rainwater to 100m half round PVC gutter laid to falls to new 65mm down pipes to discharge to new soak away. New soak away min 5m away from any building to be 2.0m³ below invert of drain, filled with hardcore and covered with 300mm lean mix concrete on 1000-gauge polythene. Drain to be 100mm diameter UPVC laid to min fall of 1 in 40, bedded and surrounded in pea beach.

Energy efficient lighting
At least 75% of new light fittings will be energy efficient

Heating
Any radiators to be installed into new extended room are to be fitted with TVR's.

Sanitation Hot Water Safety and Water Efficiency
There will be a supply of wholesome water (mains water supplied and stored in accordance with the requirements of the Water Supply (water fittings) Regulations 1999) to the following locations.....
a) Any place where drinking water is drawn off.
b) Wash hand basins, baths, showers and sinks.
c) Sanitary conveniences -however alternative supplies to sanitary conveniences are acceptable (e.g. harvester rainwater).
Heated (includes softened) wholesome water will be supplied to the following locations.....
Wash hand basins, bidets, baths, showers and sinks (in areas where food is prepared).
Any hot water storage and supply system installed is required to be commissioned in accordance with procedures set out in the domestic heating compliance guide .Commissioning documentation will be required at completion.
Hot water storage systems should be designed and installed in accordance with BS 6700, 2006 + A1 2009.
Indirectly heated unvented (closed) storage water heater should comply with BS EN 12897.2006.

1:100 METRES

1:50 METRES

Mel Humphrey
MRICS MBEng
39 Northease Drive
Hove East Sussex BN3 8PQ
Mobile: 07701 055182
RICS Email: mel_humphrey_uk@yahoo.co.uk

Drawing Title: Extensions @ 215 Upper Shoreham Road, Shoreham by Sea
Scale: 1:50, 1:100
Date: Jan 12 Drawn by: mjh
A1 size drawing
Drg No. Rev.