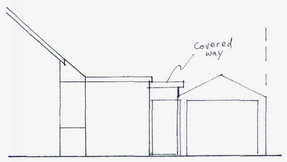
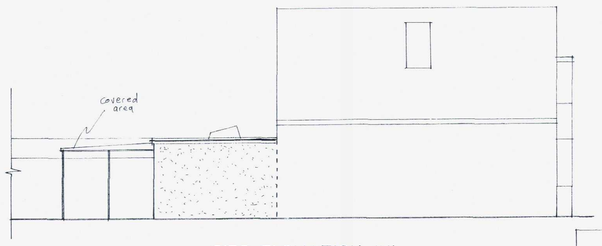
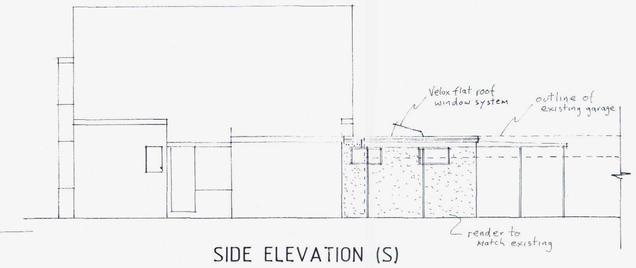
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FRONT ELEVATION



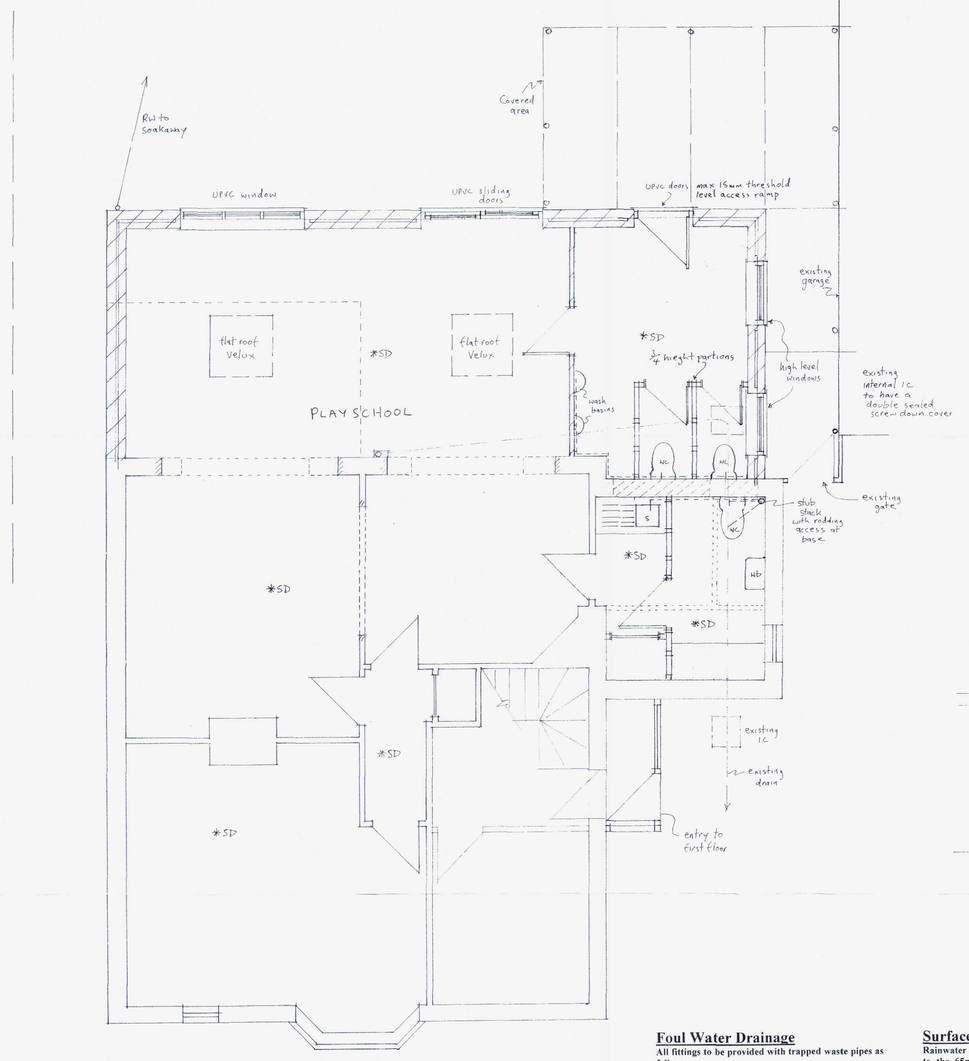
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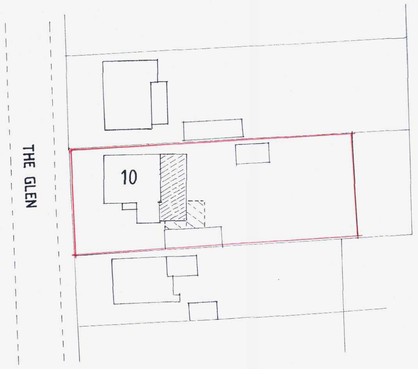
SIDE ELEVATION (S)



REAR ELEVATION (S)



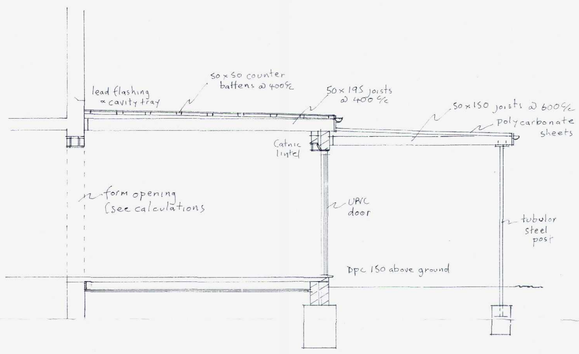
GROUND FLOOR PLAN



BLOCK PLAN Scale 1:500

Smoke Detectors

Smoke detectors ('SD) as shown on plan to be *mains* operated self-contained smoke alarm to BS 5446: Part 1. All smoke alarms 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.



TYPICAL SECTION

Foul Water Drainage

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

Shower/sink	- 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.
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.
All manholes within the building to be fitted with double seal screw down covers.

Surface Water Drainage

Rainwater to 100m half round PVC gutter laid to falls to the 65mm downpipes as shown to discharge to soakaway.
New soakaway min 5m away from any building to be $1m^3$ below invert of drain, to be hollow ring construction. *Drain to be 100 dia* UPVC lain to min fall of 1 in 40, bedded and surrounded in pea beach.

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 thermostatic radiator valve. If the boiler is to be moved or changed it must be a condensing type with a SEDBUK rating not less than 86%.

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 in 1 per 4 of new locations or 1 per $25m^2$ whichever is greater.

BUILDING REGULATION NOTES

THIS DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERS CALCULATIONS AND RECOMMENDATIONS
ALL FOUNDATIONS, WALLS AND LINTELS TAKEN ADDITIONAL LOADS ARE TO BE EXPOSED AND CHECKED FOR ADEQUACY AND SUITABILITY FOR GROUND CONDITIONS PRIOR TO COMMENCEMENT OF WORKS.
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.
No work to encroach over the boundary of the neighbours property.
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.
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

750 x 500mm trench fill foundations (1:2:4 concrete mix). All foundations to be minimum 1.0m below ground level with the exact depth to suit site conditions. New foundations to go down to invert level of any adjacent drains. Internal loadbearing walls to have 225 x 450mm strip concrete foundations (1:2:4 concrete mix) taken to at least 1.0m deep or to suit site conditions.
If tree roots are present within excavations, foundations should be taken down to 600mm below any root growth, external face of trenches to be lined with 1000 gauge polythene slip membrane, internal face of trenches lined with 25mm thick clayboard.

External Walls

Cavity walls comprising matching rendered block outer leaf with 50 x 85mm cavity filled with 85mm Dritherm or Rockwool. Inner leaf 100mm Thermalite "Turbo" or equal and approved blockwork min 3.5 N/mm^2. All walls constructed using 1:1:6 mortar or 1:5 masonry cement mortar. Finished with 12.5mm plasterboard on dabs and set finish 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. Ensure that at all openings no cold bridging occurs by using a proprietary system such as Thermabate Closers, or similar approved.
New walls to be bonded to existing using British Board of Agrément certificated stainless steel wall profiles.
Blockwork 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.
Where drains pass through external walls provide 65mm deep x thickness of wall prestressed concrete lintel over in each leaf of wall. Minimum cover over drains to be 50mm clear. Mask opening with sheet material to prevent entry of fill or vermin.
All walls constructed with stainless steel double triangle 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.
The building fabric will 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 elements such as those around window and door openings. Reasonable provision to be made to reduce unwanted air leakage through the new envelope parts.

Ground Floors

22mm flooring grade tongued and grooved chipboard on a 1200 gauge polythene vapour barrier, turned up 100mm at room edges, fixed behind the skirting, 80mm Celotex Insulation, laid on 100mm concrete ground floor slab (1.2.4 mix) on 1200 gauge polythene damp proof membrane on blinded hardcore minimum 100mm thick. Where drain runs pass under new floor provide A142 mesh 1.0m wide within bottom of slab min 50mm concrete cover, over length of drain.
Where existing suspended timber floor air bricks are covered by new extension provide 100mm dia vent duct under new floor within hardcore to terminate at new 65 x 215mm air bricks built into new cavity wall. Ducts to be sleeved through cavity with cavity tray over.

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 $8000mm^2$ trickle ventilator. Providing a U value of $1.8W/m^{2o}K$.
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 $8000mm^2$ trickle ventilator. Double up rafters either side. Providing a U value of $1.8W/m^{2o}K$.
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.
WC rooms to be provided with mechanical ventilation giving a rate of 15 litres per second, ducted to external air with 15 minute over run and worked off light switch.

Flat Roof

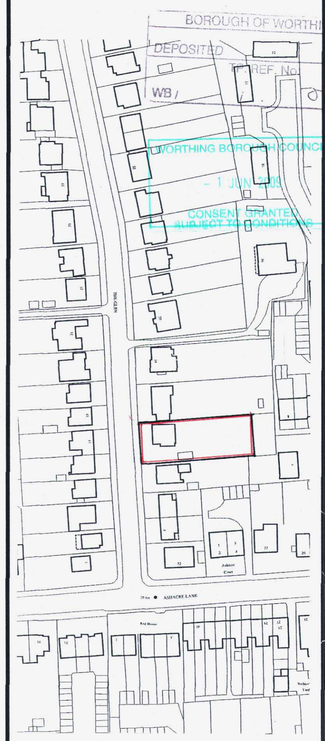
Flat roof covered with 3 layer built up felt to BS747 finished with 12.5mm white stone chippings bedded in bitumen.
All felt work and detailing to be in accordance with CP144. 18mm WBP plywood decking on sw firrings to give min 1 in 40 fall and SC3 grade sw joists (size and centres as shown on plan) with 120mm Celotex Extra-R XR3000 insulation laid between joists (Ensure a 50mm air gap above insulation) and 25mm Celotex T-Break below joists. Fascia to match existing with soffit fitted with continuous 25mm vent and fly-proof screen. Roofing felt dressed up existing wall by 150mm with code 4 lead cavity tray and cover flashing built into existing cavity wall dressed down over felt upstand. Ceiling lined with 1000 gauge polythene and 12.5mm plasterboard with set finish. Providing a U value of 0.2 $W/m^{2o}K$.

Internal Walls

Internal blockwork partition walls as shown to be constructed of 100mm lightweight blockwork.
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 noggins at maximum 1200 centres. Studding faced both sides with 12.5mm plasterboard finished with set.

Beams and Lintels

Catnic or similar approved lintels to be used over door and window openings with min 150mm bearings. All voids within lintels to be filled with 150mm fibreglass. 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.



LOCATION PLAN
Scale 1:1250

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Job Title
10 THE GLEN
WORTHING

Drawing Title:
EXTENSIONS

Scale: 1:50 & 1:100

Date: Feb 2009

Drawn by: JW

Drg No. 097/09/JW

Rev.