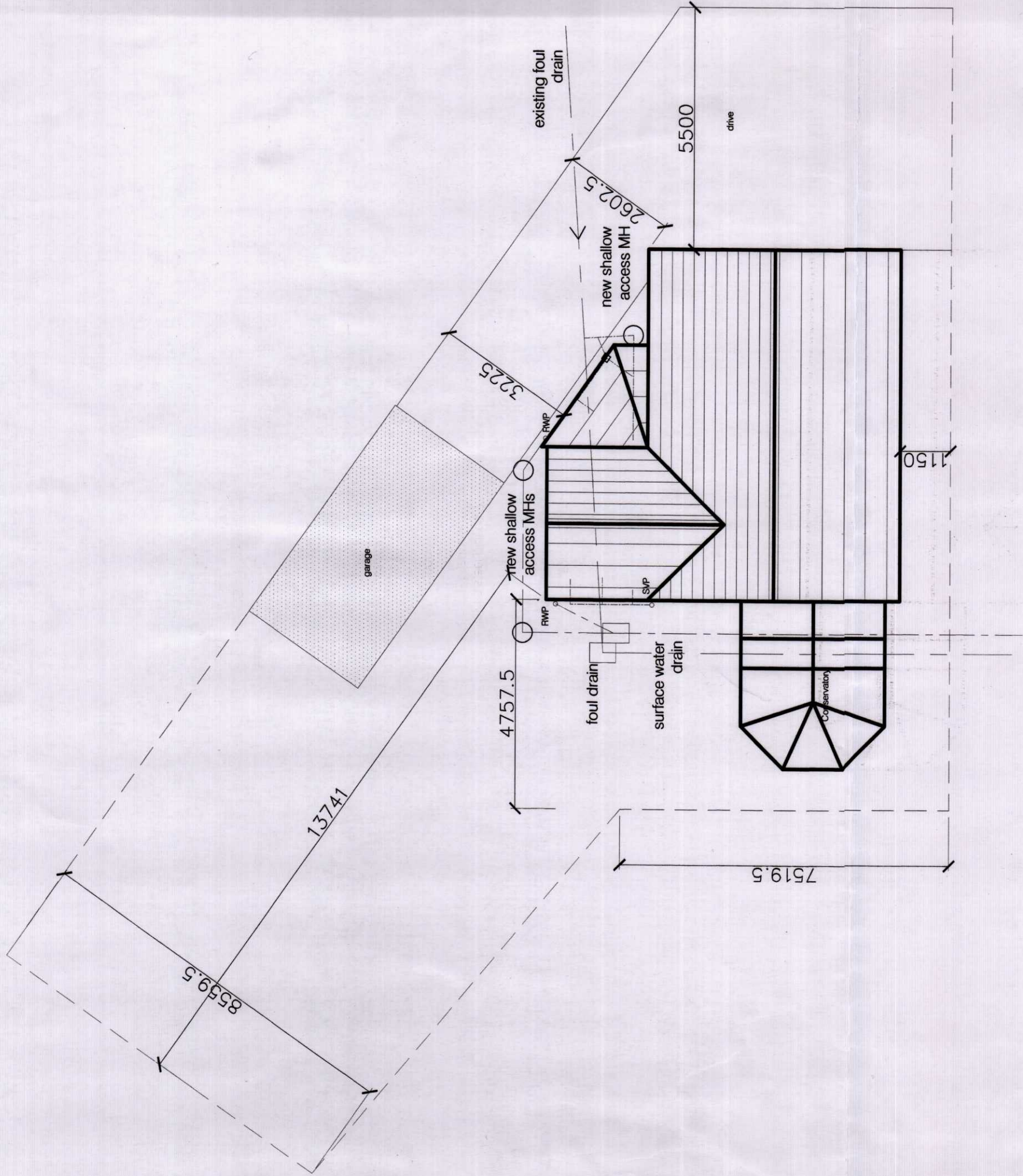




SITE PLAN

FOUNDATIONS
Foundation to existing wall to be exposed for inspection and approval by Building Inspector.
Foundation to ground floor extension to be taken to a depth approved by Building Inspector and to be 600 x 225mm deep.

FLOOR
To first floor extension
22mm flooring grade chipboard on 125x50mm C16 floor joists at 400mm centres, built into wall one side with the other supported with joist hangers. Lateral restraint mild steel straps 30 x 5mm built into internal skin and taken over 3No. joists. 50mm sound quilt between joist, 12.5mm plasterboard and skimmed ceiling.
To ground floor extension
85mm sand / cement screed with D49 mesh reinforcement on isolating membrane on 85mm Celotex FF-4000 insulation on 125mm concrete slab on 1200 gauge DPM on 50mm sand binding on 225mm consolidated hardcore.
U value to be achieved = 0.22

EXTERNAL WALLS
102.5mm face brick to match existing, 50mm cavity full fill cavity insulation 100mm dense concrete block 13mm plaster.
U value to be achieved = 0.28
Wall ties to be vertical twist stainless steel placed at 400mm vertical centres and 600mm horizontal centres 215mm adjacent to openings.
Proprietary insulated cavity closer to windows and to close cavity at eaves level.
New walls fixed to existing with crocodile clips.
Cavity maintained to existing wall and vertical dpc inserted.
INTERNAL
100x50mm timber stud partition with 12.5mm plasterboard and skim boths,
LINTELS:
Galvanised insulated steel lintels, G Ltd. or similar approved, with flexible cavity tray over. To areas where roof rafters bear over window opening, heavy duty lintels are to be used.

ROOF
Ground floor extension:
concrete roof tile to match existing on 50x25mm battens on breathable membrane on 125x50mm C16 rafters at 600mm centres. 25mm thick hip board. 100x50mm wall plate held down with 30x5mm MS straps at max. 2m centres. Bottom of rafters held down with 30x5x1000mm once twisted restraint stays at 2m centres. Top of rafters fixed to 100x50mm 'bearer' fixed to existing walls will rawbolts at 1200mm centres. 125x50mm C16 ceiling joists at 600mm centres. 300mm mineral wool insulation, 200mm laid between ceiling joists with 100mm laid over joists at right angles to joists.
U value to be achieved = 0.16
ROOF
First floor extension:
concrete roof tile to match existing on 50x25mm battens on breathable membrane on proprietary roof trusses at 600mm centres. 100x50mm wall plate held down with 30x5mm MS straps at max. 2m centres. Diminishing roof trusses on 25mm lay board to form valleys, code 5 lead to form valleys. Ventilated roof tile. 300mm mineral wool insulation, 200mm laid between ceiling joists with 100mm laid over joists at right angles to joists.
U value to be achieved = 0.16

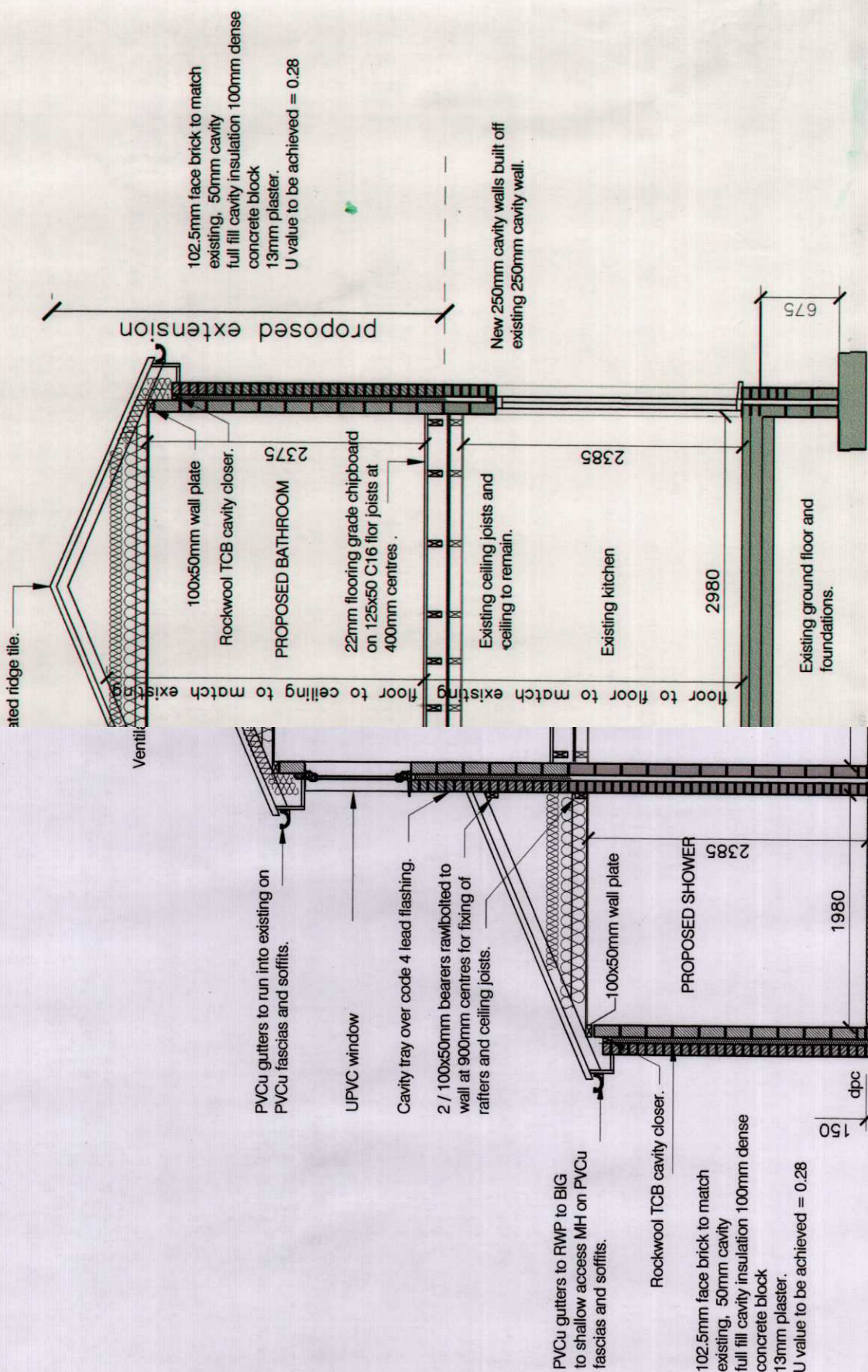
WINDOWS:
Double glazed high performance upvc units fitted with trickle vents giving background ventilation area not less than 8000mm sq. All safety glazing to be provided in accordance with Building Regulations Approved Document Part N Glazing to satisfy U values stated in Part L of the current Building Regulations.

PLUMBING:
All pipes and fittings to BS 4660. All sizes, falls, traps and vents to satisfy the requirements of the recent Building Regulations.
Soil and Vent pipes.....100mm. dia.
W.C. Waste pipe.....100mm. dia.
Shower, sink waste pipe.....40mm. dia.
Wash hand basin.....32mm. dia.
All lengths of waste to be roddable by means of suitable access provisions to BCO approval. Traps to BS 3943, 75mm. seal min. All goods and fittings to comply with CPO 305 are installed in accordance with CP 304. Soil and vent pipes encased with 9mm ply on sw framing. Pipes passing through roof finish shall be fitted with all necessary flashing and soakers. Pipes passing through substructure to be fitted with all necessary pc. conc. lintel over, pipes to have no joints 150mm.min either side of wall.

DRAINAGE
100mm UPVC pipes with 150mm granular bed and surround. New 450mm dia. shallow access manhole. foul drain to existing inspection chamber Storm - RWP 's existing inspection chamber.

SMOKE ALARMS: ϕ SD
Smoke detectors to be fitted in positions as shown on plan. Alarms to comply with BS 5446, part 1:1990.

LIGHTING
Min. 2No. lights to be 'energy efficient' type



SECTION A - A

PROPOSED EXTENSION AT 37 ANTHONY GROVE,
BERCANAIID, MERTHYR TYDFIL.

PIE PLAN, SECTION A - A, SPECIFICATION

Al scales : 1 / 100 , 1 / 50

02