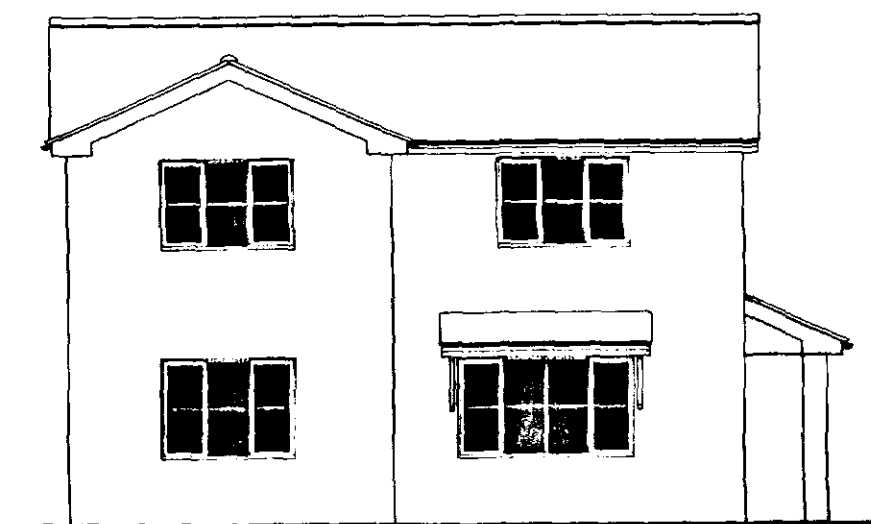
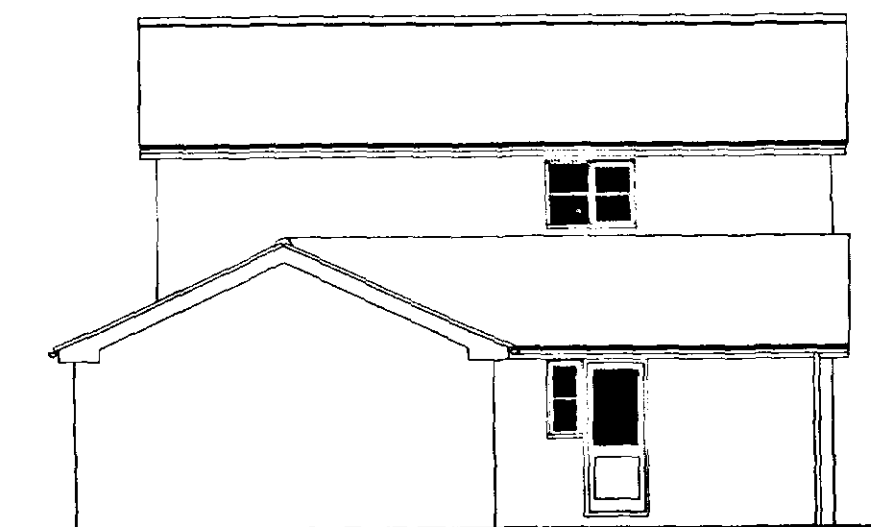




SIDE ELEVATION



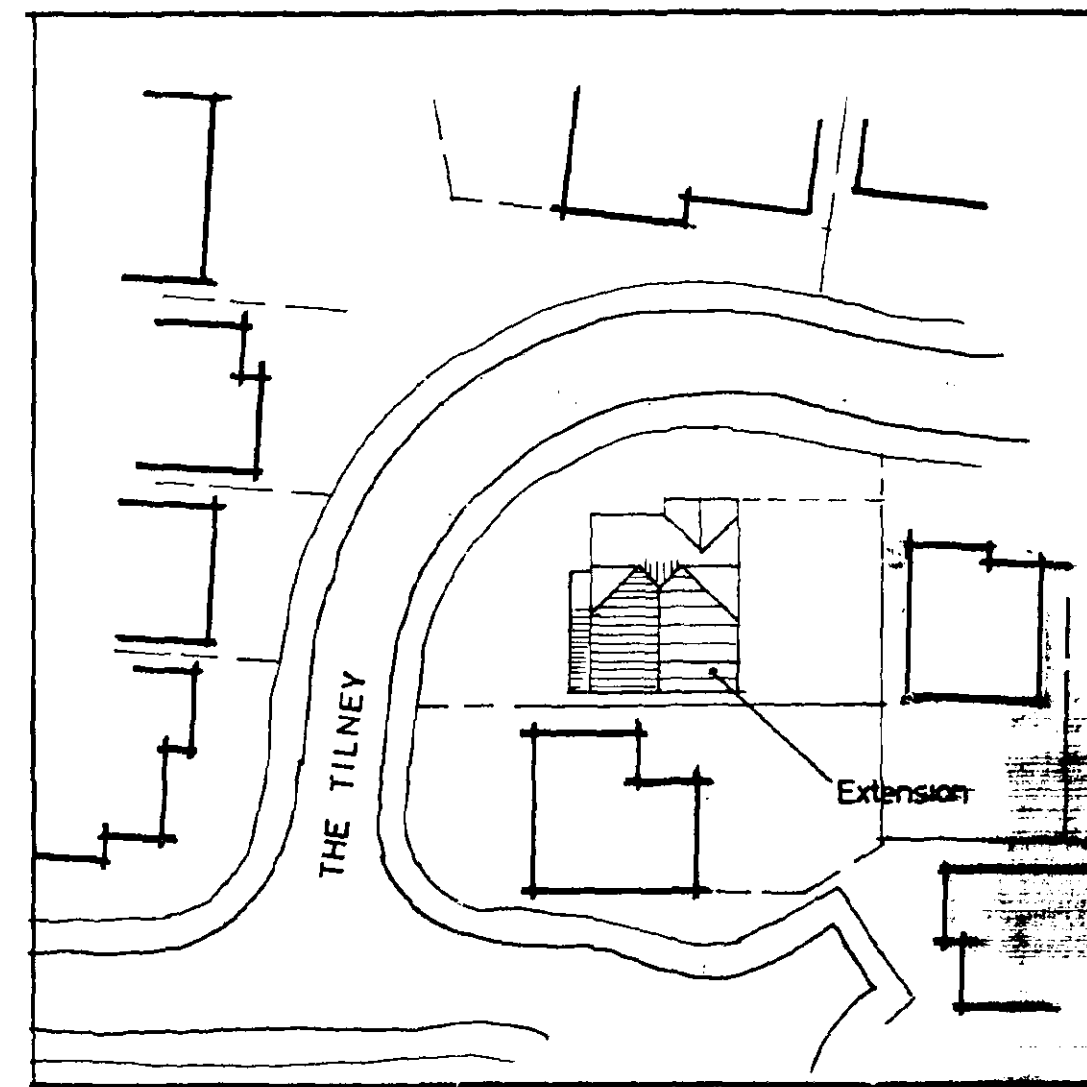
REAR ELEVATION



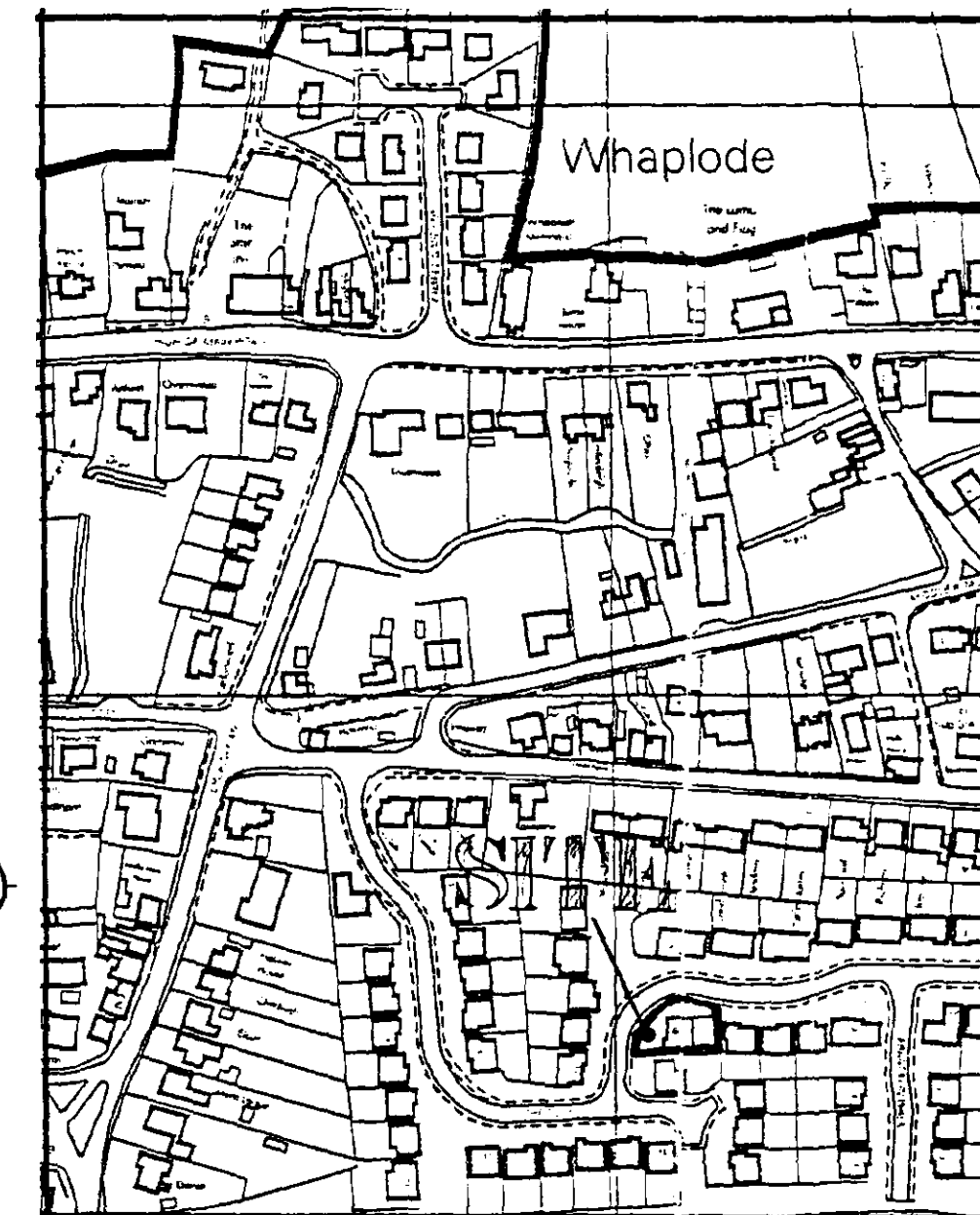
SIDE ELEVATION



FRONT ELEVATION



SITE PLAN
1/500



LOCATION PLAN
1/2500

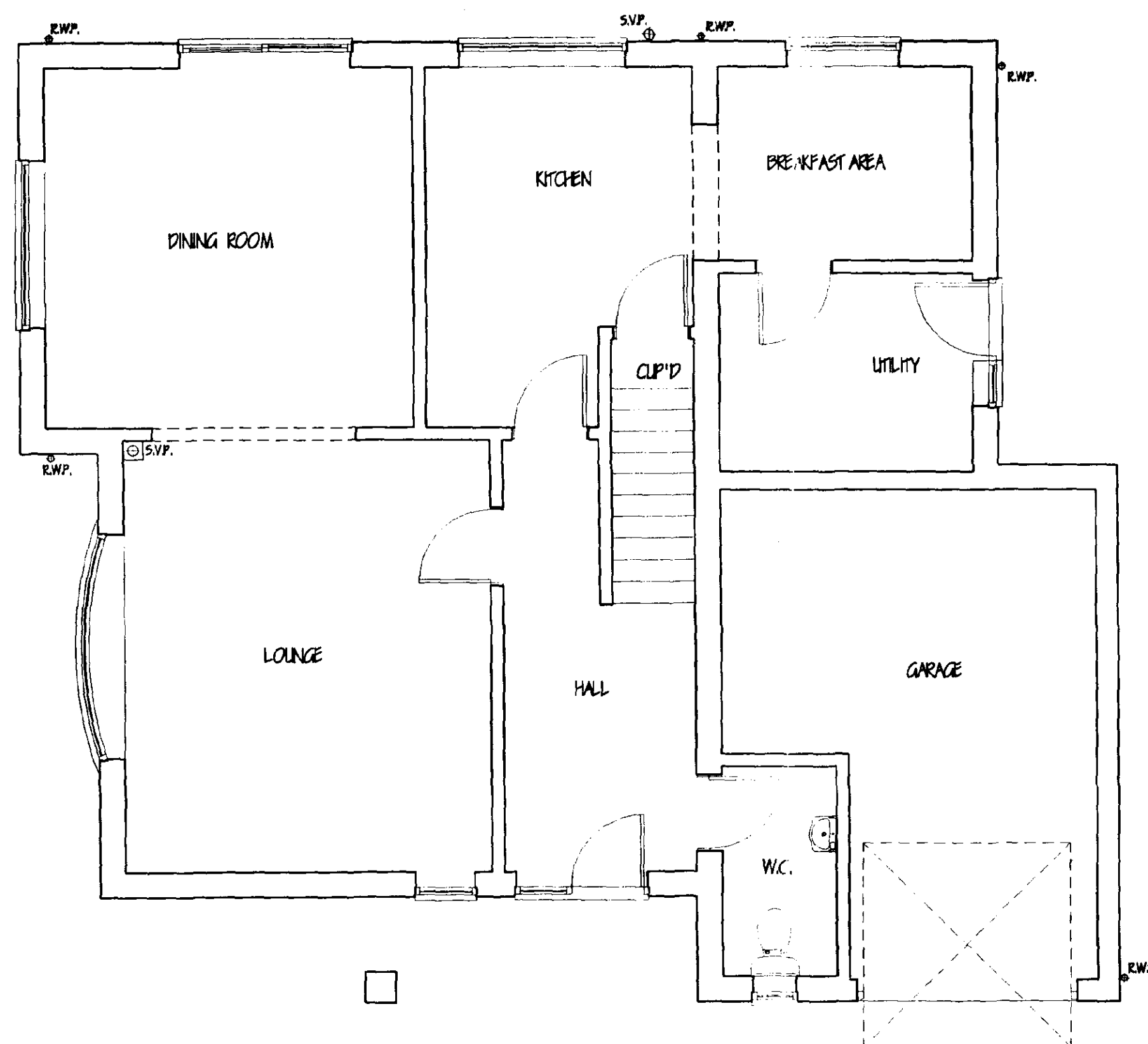
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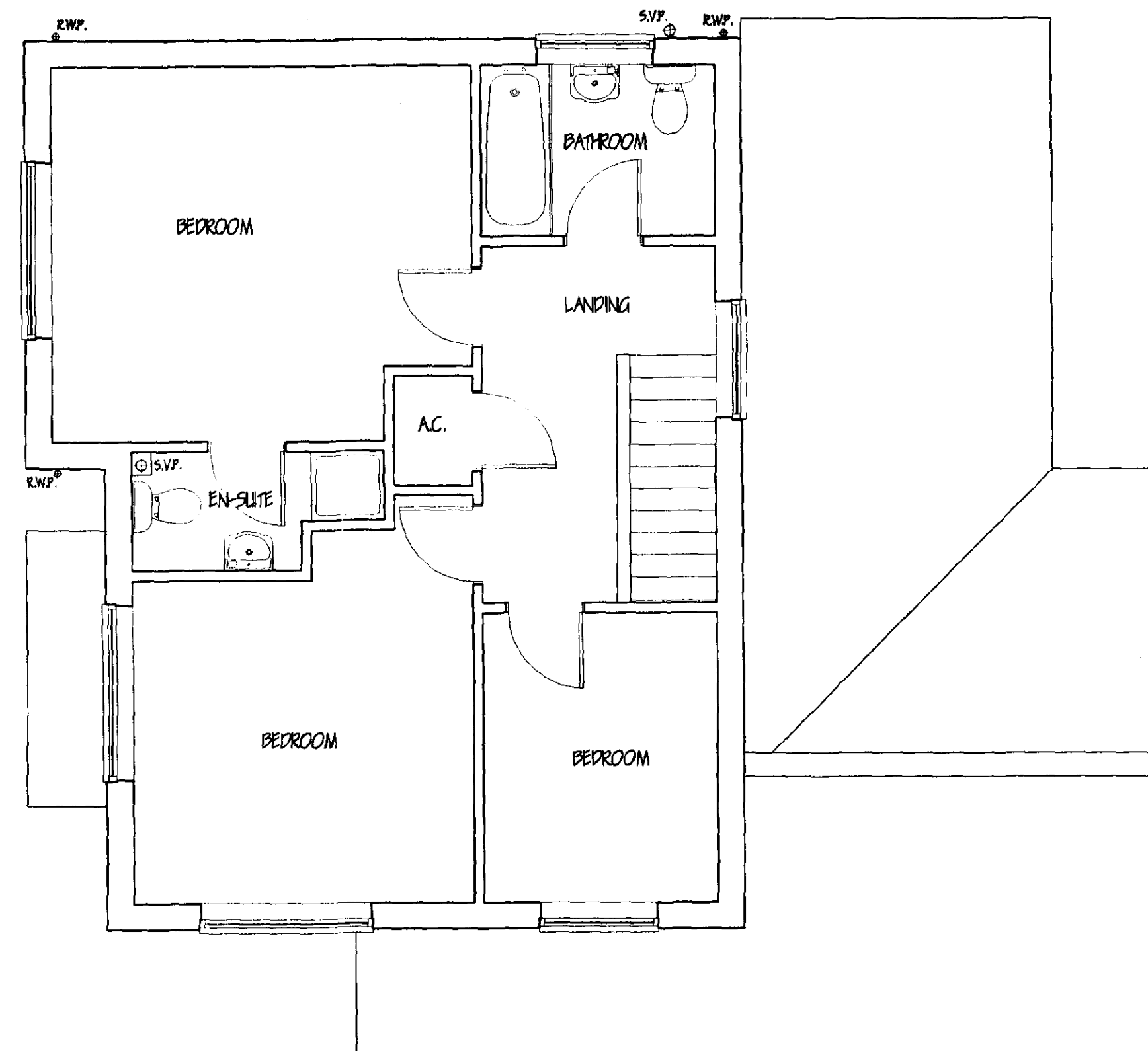
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GROUND FLOOR

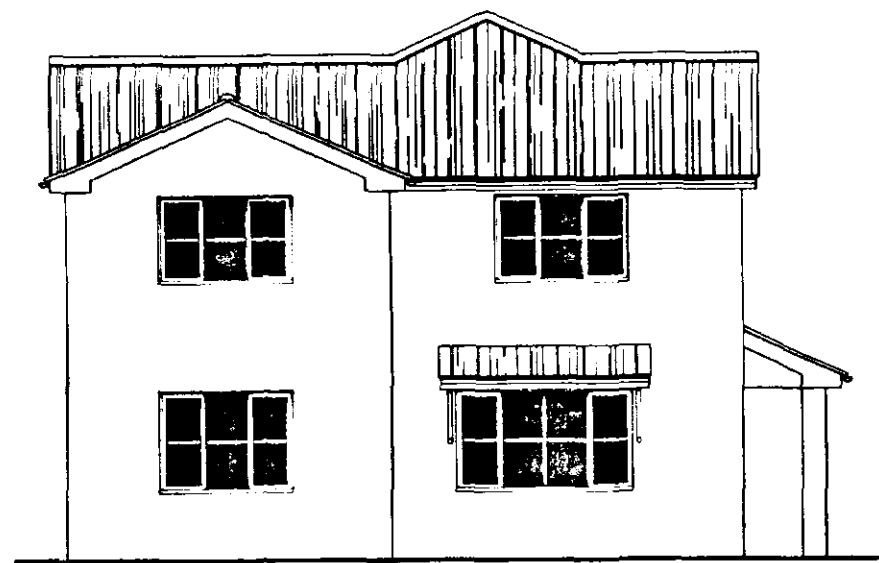


FIRST FLOOR

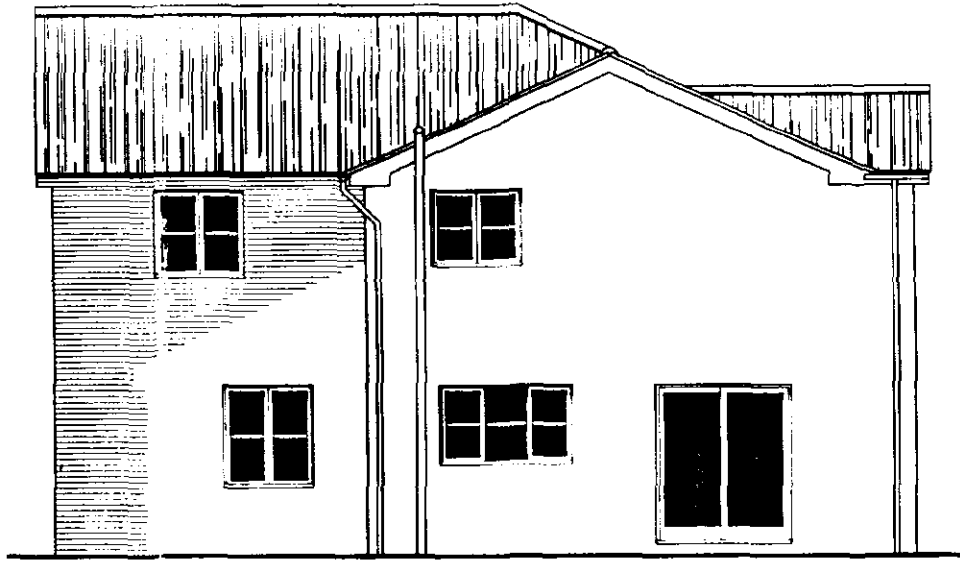
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Planning & Development
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Ref 1061/02

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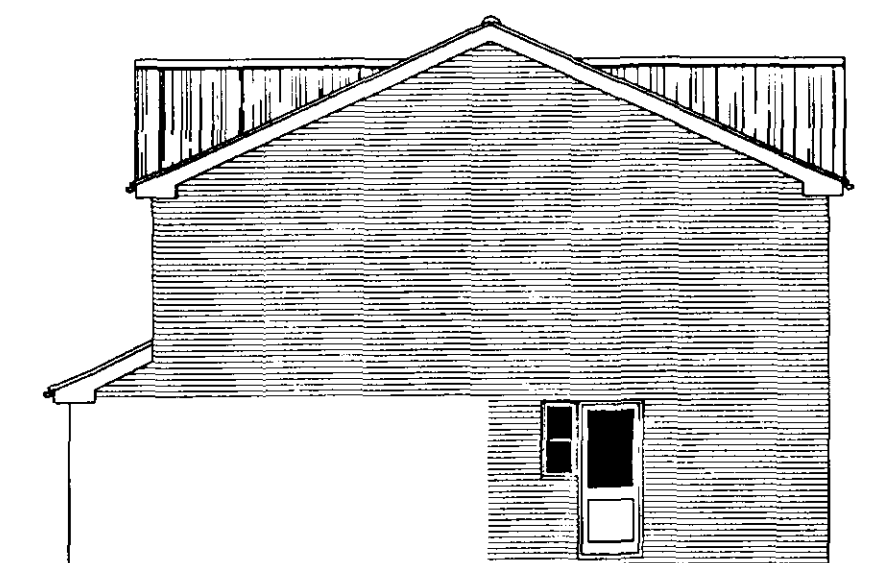
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G. R. MERCHANT LENO AMICE FIWO ARCHITECTURAL, STRUCTURAL AND LAND DRAINAGE CONSULTANTS Unit 4, Wrights Mews 12A, Park Road, Holbeach, Spalding, Lincs. PE12 7EZ Tel: 01406 425000 Fax: 01406 425744 E-Mail: G. R. Merchant @ Merchant. PE. Co. UK		
Project EXTENSION & ALTERATIONS 38 THE TILNEY WHAPLODE SPALDING Lincs.		
Client MR & MRS S. WALKER		
Drawing EXISTING FLOOR PLANS / ELEVATIONS		
Job Ref.	Drawing No.	
533-02	01	
Date	Drawn	
AUG. '02	J.C.	
Scales 1:50 1:100 [unless otherwise stated]		
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SIDE ELEVATION



REAR ELEVATION



SIDE ELEVATION



FRONT ELEVATION

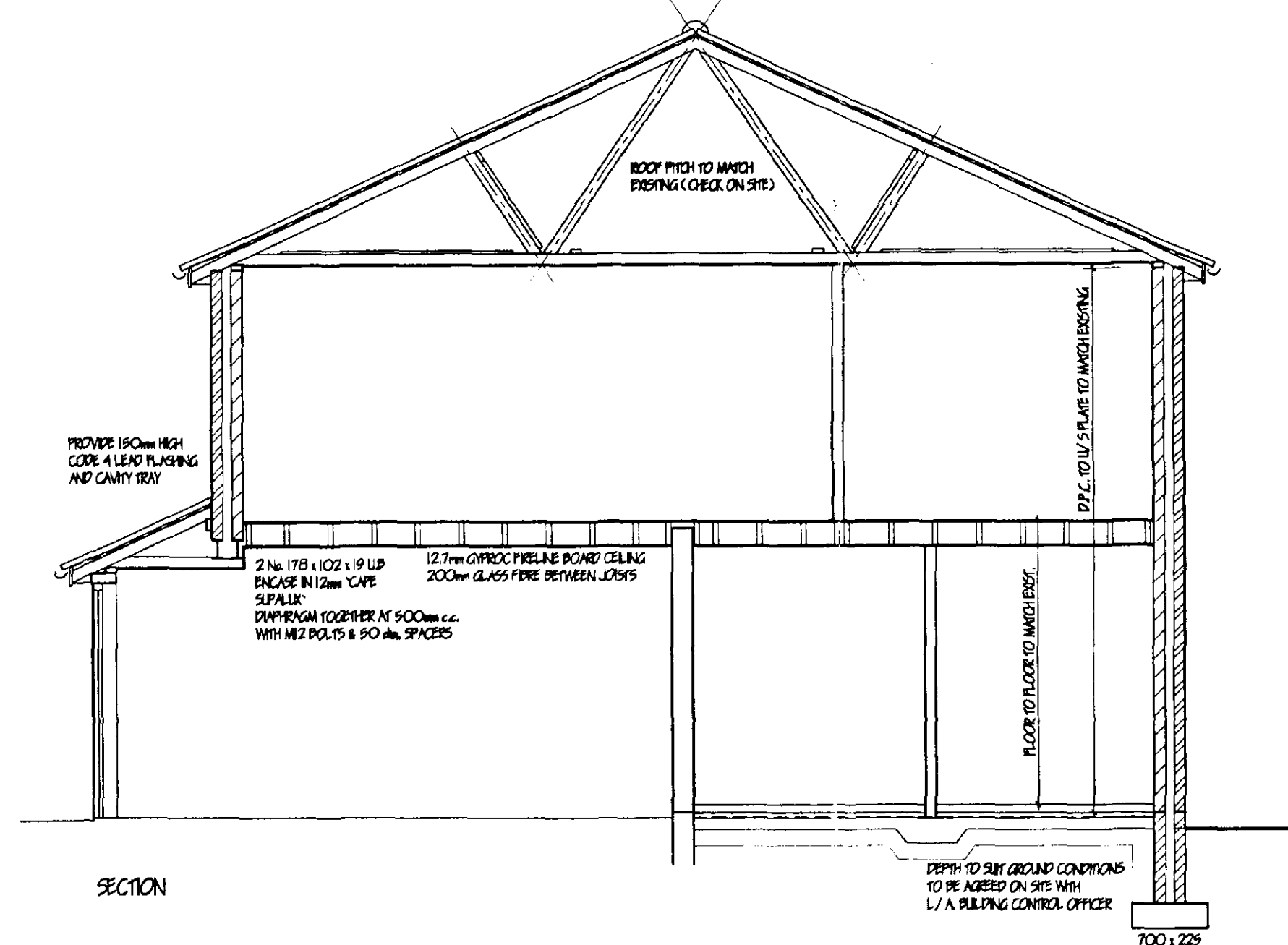
SUB STRUCTURE WALLING
100mm dense concrete blocks to B.S. 6079 p41 1993. DPC to external wall positioned in accordance with CP 102 min. 150 above finished ground level. Work min. concrete fill to base of cavity no closer than 225 to DPC. All brickwork below DPC to be P.L. quality.

GROUND FLOOR CONSTRUCTION
Strip all vegetable soil and lay floor as follows: 70mm sand and cement screed with chicken wire reinforcement on 500q polythene D.P.M. on 45mm Celotex GA204B insulation board, on 1200q polythene D.P.M. lapped continuous with D.P.C. by min. 100mm, lay 500mm wide D.P.M. strip into D.P.C. to top floor D.P.M. All on 100 concrete near site. Concrete mix GEM to B.S. 5522; p4 1991, 150 Unfilled and consolidated hardcore (Garage floor to be as above except sand cement screed and insulation. Ensure 100mm threshold at door from garage to utility.

FIRST FLOOR CONSTRUCTION
19mm T&G flooring grade chipboard on 47 x 195 SC3 grade joists stamped 'YRY' or 'YD' to indicate moisture content of 20% or less in accordance with BS 4978 at 400c/c. 50 x 55 galvanised, steel anchor and lateral restraint straps to joist at min. 1.5m c/c straps to be run over min. 25mm joists with solid bridging beneath. Provide herring bone strutting min. 58 x 58 at mid span of joists where span exceeds 2.5m. Provide 25mm joists bolted together under all first floor walls where not supported on block work below. All joists at junction with external wall to be supported in mild steel galvanised hangers. Supported off 47 x 200 wall plate. Rafted back to inner skin of blockwork at 400mm centres with M10 x 125 bolts. Alternatively screw each hanger to inner skin of blockwork.

FOUNDATIONS
Under walls as shown provide strip concrete foundations as follows: Under 225 cavity walls provide 225 x 700 GEM mix to B.S. 5522; p4 1991. All foundations taken down to bear on load bearing strata min. depth of 600 to top of foundations; should shrinkable soil conditions be found on site then foundations shall be taken down to a minimum depth of 1 metre below ground level. Where internal walls are taken up off floor then thicken out slab to 225 x 450 or 1' considered necessary be taken down to 225 x 450 foundations.

LINEALS
All lineals to be manufactured by Messrs. I.G. Gales U/L 575 and U/L 110 75 all to be installed in accordance with makers' instructions and to have min. and bores of 150mm and at external positions to have cavity tray D.P.C. to CP 121. Internal lineals to be I.G. 100 Plot tape. Lineals in garage to be underlaid with 12.7 fibre board or receive 12mm render and skim. Provide Parylene vapour holes and stop ends to cavity tray.



SECTION

SURFACE WATER DRAINAGE
115mm dia. half round rainwater gutters to 65mm dia. rainwater pipes. 110mm dia. underground pipes flexibly joined to a fall of 1:70 pipes bedded and surrounded in pea gravel and discharge to 120mm dia. soak away min. 5.0m to edge from dwelling. All footpaths and drives to slope away from dwelling.

GLAZING
Double glaze property Extension threshold (minimum 12mm air gap to all units with Low 'E' (0.5 class) max 'U' value 2.0 W/ sqm.K. All glazing between 1.1m and 2.0m high and between 1.1m and 1.500mm high in doors and side lights to be safety glass to B.S. 6206. All windows/doors to be draught sealed.

VENTILATION
All windows to have opening lights to give the equivalent of 1/20th the floor area. Provide background ventilation to habitable rooms min. 8000mm sq permanent free air ventilation per room. To all other rooms provide min 4000 sq.

PITCHED ROOF CONSTRUCTION
Interlocking concrete roof tiles to B.S. EN 490 / 491, on 25 x 38 softwood treated battens on under felt to B.S. 747 (type 1F) and in all cases to be lapped by 150mm both vertically and horizontally. Tiles to be laid with min. head lap of 75mm and to be fixed in accordance with regard to wind speed, roof pitch and exposure category as detailed in B.S. 5599. Pt 2. Twinplate specialist made prefabricated roof trusses to comply with B.S. 5268 part 3 1980. TRUSS CALC'S TO BE SUBMITTED TO L/A MIN. 28 DAYS PRIOR TO ERECTION. Trusses to be at 400c/c to a pitch of to match existing. 58 x 100 ridge node bridle. 58 x 100 ceiling bridle. All trusses to be strapped to wall plate by 30 x 5 galvanised metal straps acting as anchor and lateral restraint straps at min. 1.5m c/c. Notes provide solid 1' joists to be installed in 50 x 100 joists bedded in sand and cement. 25 x 175 fascia boards: 6mm dia. grade plywood soffit complete with 10mm wide continuous air gap and fly proof screen. All structural timber to be min. SC3 grade. stamped 'YRY' or 'YD' to indicate moisture content of 20% or less all in accordance with BS 4978. Where span of trusses exceeds 5.0m provide additional bracing within the plane of the web in accordance with Truss Plate Assoc. tech. bulletin sheet 4. Timber supports are to be provided beneath water storage tanks over 4th ceiling joists. All roof intersections provide 25 x 100 la. boards and diminishing trusses at 600 c/c. Total code 4 lead valley, 10m.

FIRE ESCAPE WINDOWS
All habitable rooms in the upper story of a dwelling should have a window with an unobstructed opening area of at least 0.35 sqm, and at least 450mm wide x 750mm high (the route through the opening may be at an angle rather than straight through). The bottom of the opening area should not be more than 100mm above floor level.

CEILING
1st ceiling lay 250mm glass fibre insulation total thickness. 100mm between joists & 150mm over joists to provide max. 'U' value of 0.16 W/ sqm.K. Staped ceiling lay Celotex GA2040 + GA2040 to provide a max. 'U' value of 0.2 W/ sqm.K. Ensure 50mm air gap over all insulation. 12.7mm Gypsum plasterboard 9mm skin finish. Provide min. 58 x 58 square to all plasterboard edges. All joints to be taped and filled. Provide access trap to roof space: opening to be fixed with 25 x 25 plasterboard. Access panel to be 12mm ply with layer of 12.7mm 1' rotan board fixed to face. 100mm Lathes to top surface. Provide slide bolt fasteners & draught seal all round.

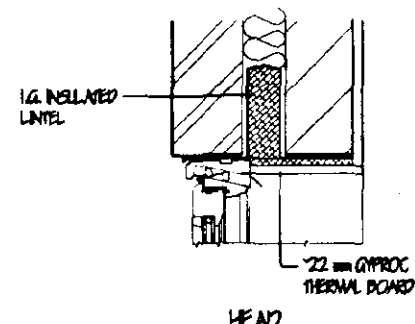
WALLING
225 cavity walls to consist of face brickwork to B.S. 5522:1974 for clay bricks and B.S. 187:1978 for calcium silicate bricks. 225 cavity: build into cavity. Ditherm cavity wall batt insulation boards in accord. with makers' instructions and ascertain cert. No. 04/1268 & 06/1584. 100mm Tarmac Hemithe solid insulation blocks or similar. Cavity walls laid together using approved run bond ties set 750 horizontally and 450 vertically to B.S. 1249:1978 wall ties positioned at 500 vertical centres at all unobstructed courses of cavity. Close cavities with 'Thermabate' performed closer and provide between felt DPC to CP 121. All work to be carried out in accordance with BS Code of Practice 121 Part 1:1973. External walls to have max. 'U' value of 0.35 W/ sqm.K. Internal walls of 100mm Tarmac Hemithe solid insulation blocks: All to receive 10mm S/C render and 2mm skim (except garage). Stud walls to consist of 58 x 89mm c/s studs at 400mm c/c, both sides to be clad with 12.7mm plasterboard and skim. 100mm glass fibre fill between studs.

HOT WATER AND SPACE HEATING
Extend and upgrade existing system as required. Ensure timer switch, suitable zone and boiler control interlocks. Fit thermostatic control valves to all radiators. Hot water system to be thermostatically controlled with timer switch and to be vented. All hot water storage cylinders to have min. 25mm thick factory applied foam insulation and pipe work to be insulated to B.S. 5422:2001. Heating Engineer to provide L/A Building Control with a suitable Commissioning Certificate in accordance with their published as part of the Benchmark Code of Practice upon completion. To Office and other commercial premises provide heating controls to limit heating to hours of normal occupation with manual override. Stoves and heaters in Office and other commercial premises to be provided by self contained thermostatically controlled instantaneous water heaters.

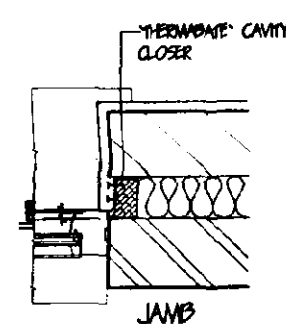
SMOKE DETECTORS
Provide ceiling mounted mains operated self-contained smoke alarms to B.S. 5446: p4 1990 in positions shown on plan. Where more than one detector is to be provided they will be interconnected. All permanently wired to a separate fused circuit at distribution board.

LIGHTING
To Bedroom provide energy efficient light fittings capable only of taking lamps having a luminous efficacy greater than 40 lumens per circuit. External lighting to be fitted with PIR/Dusk or movement sensors and capable only of taking lamps having a luminous efficacy greater than 40 lumens per circuit.

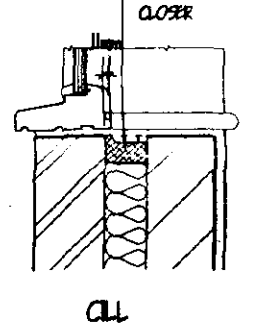
GENERAL
All electrical installations to be in accordance with the latest I.E.E. Regulations. Provide hot & cold water supply to all wash basins. All electrical switches, socket outlets, telephone and T.V. points to habitable rooms to be positioned at appropriate heights between 450mm & 1200mm from F.F.L.



HEAD

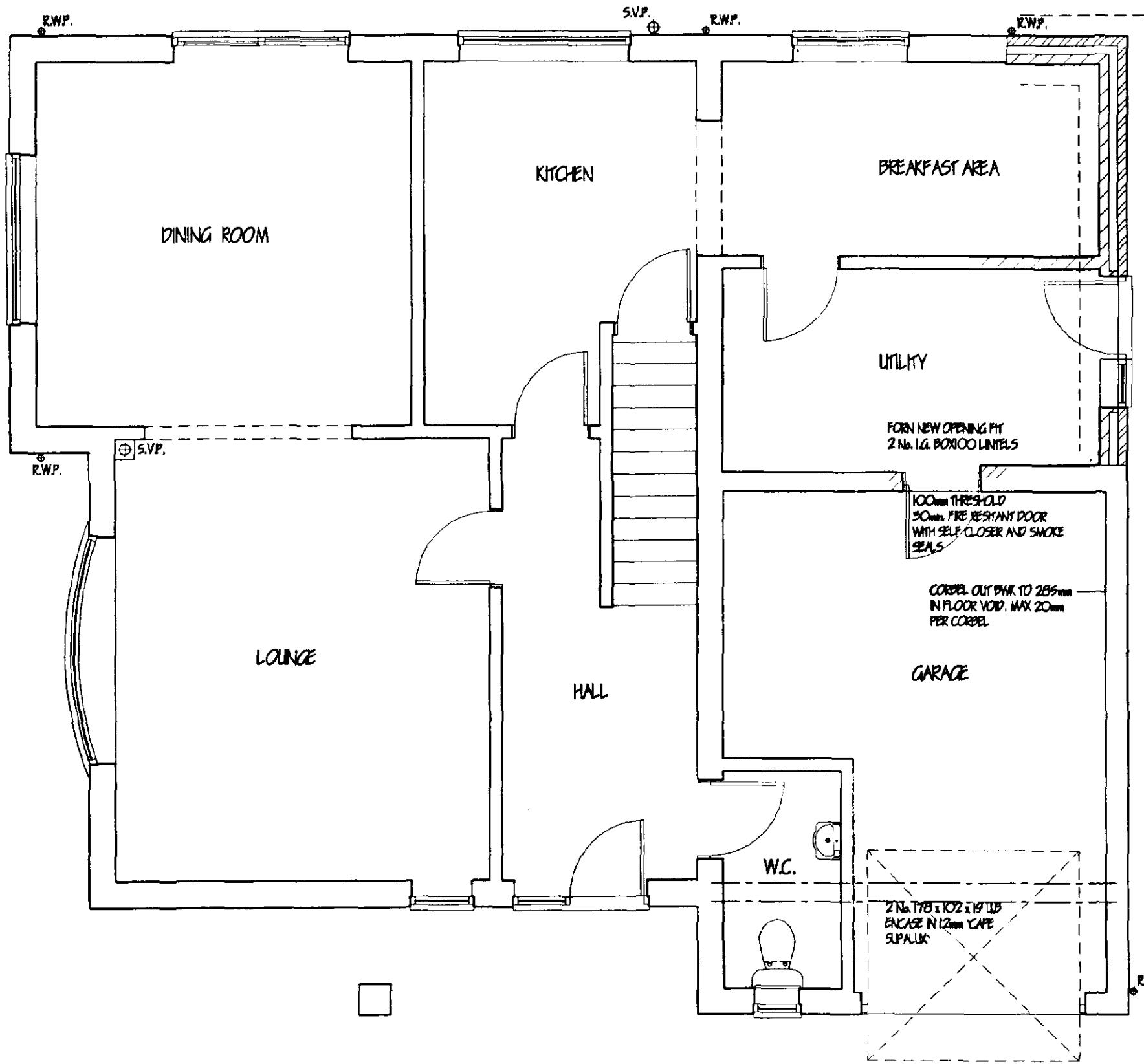


JAMB

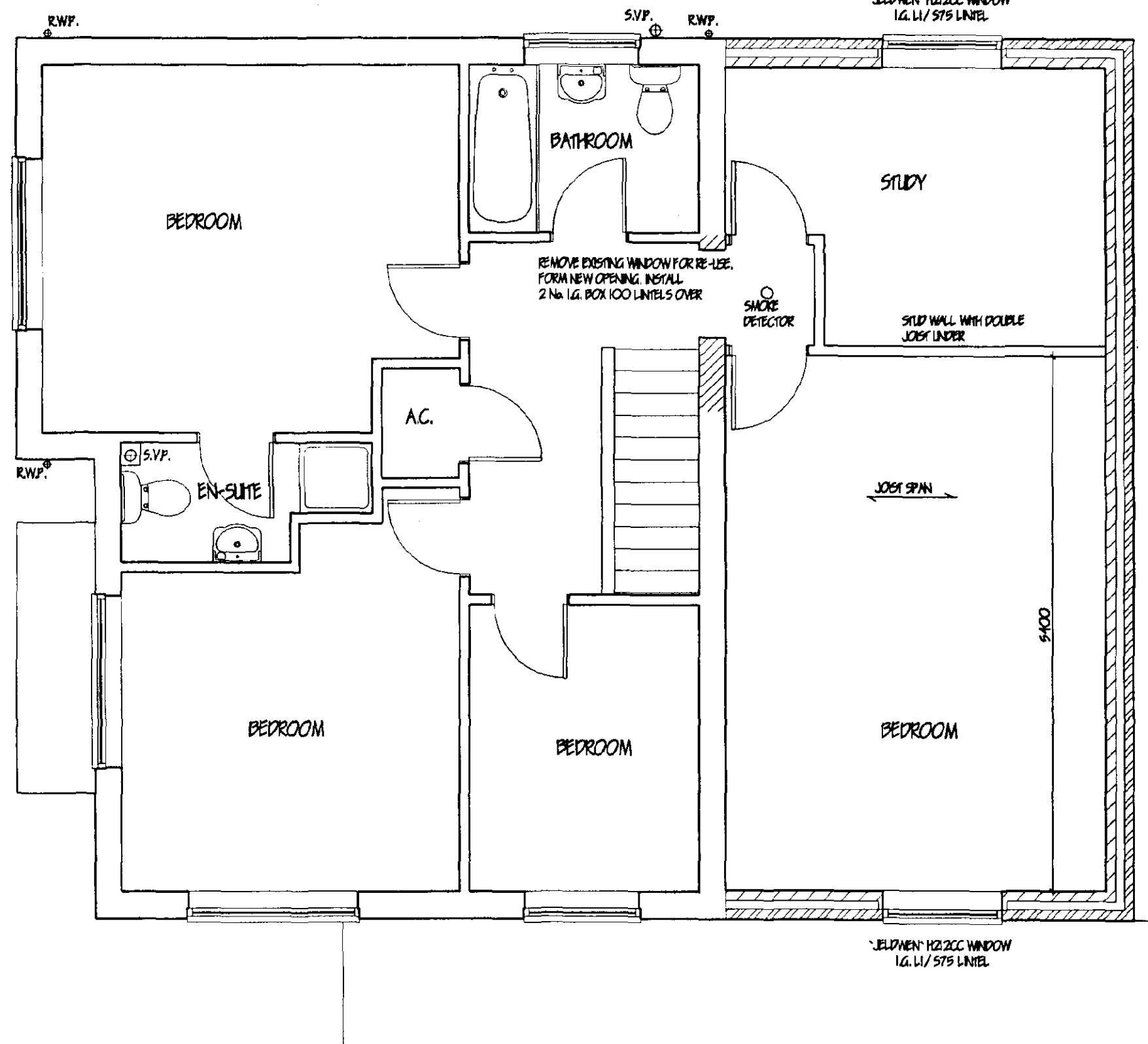


SILL

REVEAL DETAILS



GROUND FLOOR



FIRST FLOOR

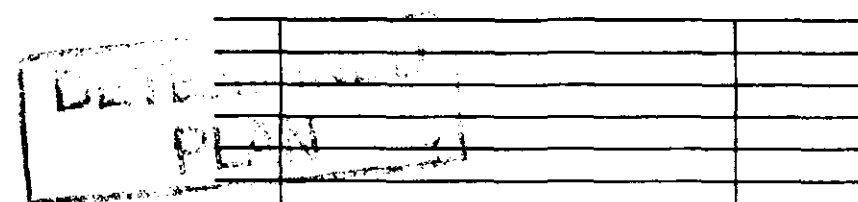
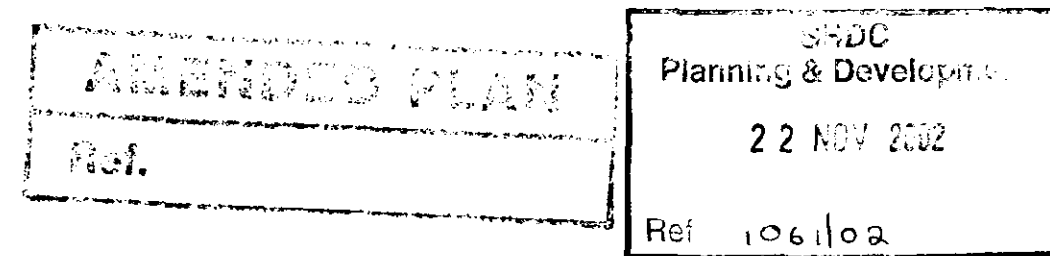
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A	NOV 02
ref. revision	date

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12A, Park Road, Halesworth,
Suffolk, Suffolk. IP12 7JX
Tel: 01408 480800
Fax: 01408 488744
E-Mail: G. R. Merchant @ Merchant. PS. Co. UK

Project EXTENSION & ALTERATIONS 38 THE LANE WHARFODE SPALDING Lincs.	
Client MR & MRS S. WALKER	
Drawing PROPOSED FLOOR PLANS / ELEVATIONS	
Job Ref. 555-02	Drawing No. 02-A
Date SEPT. '02	Drawn J.C.
Scales 1:50 1:100	
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