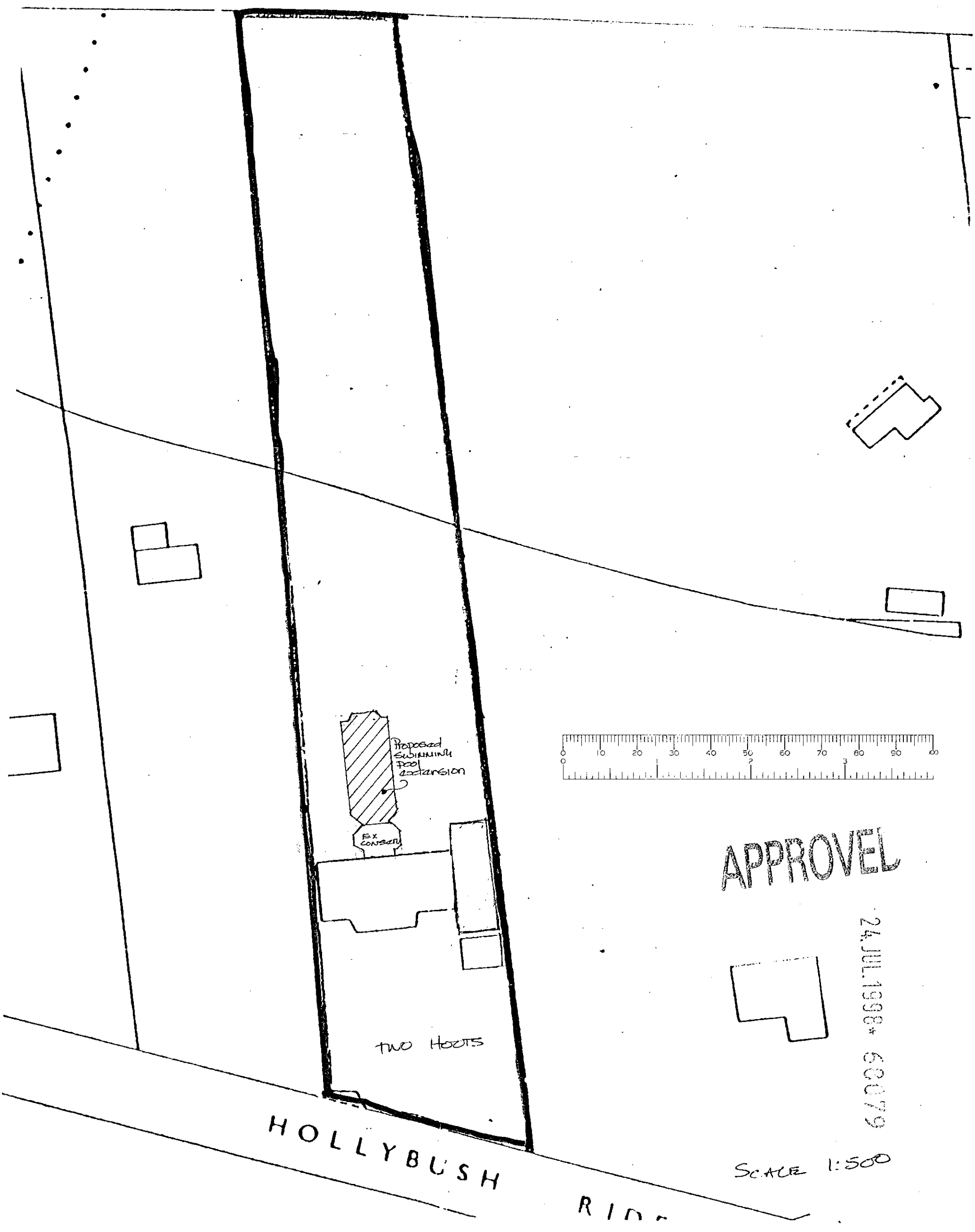
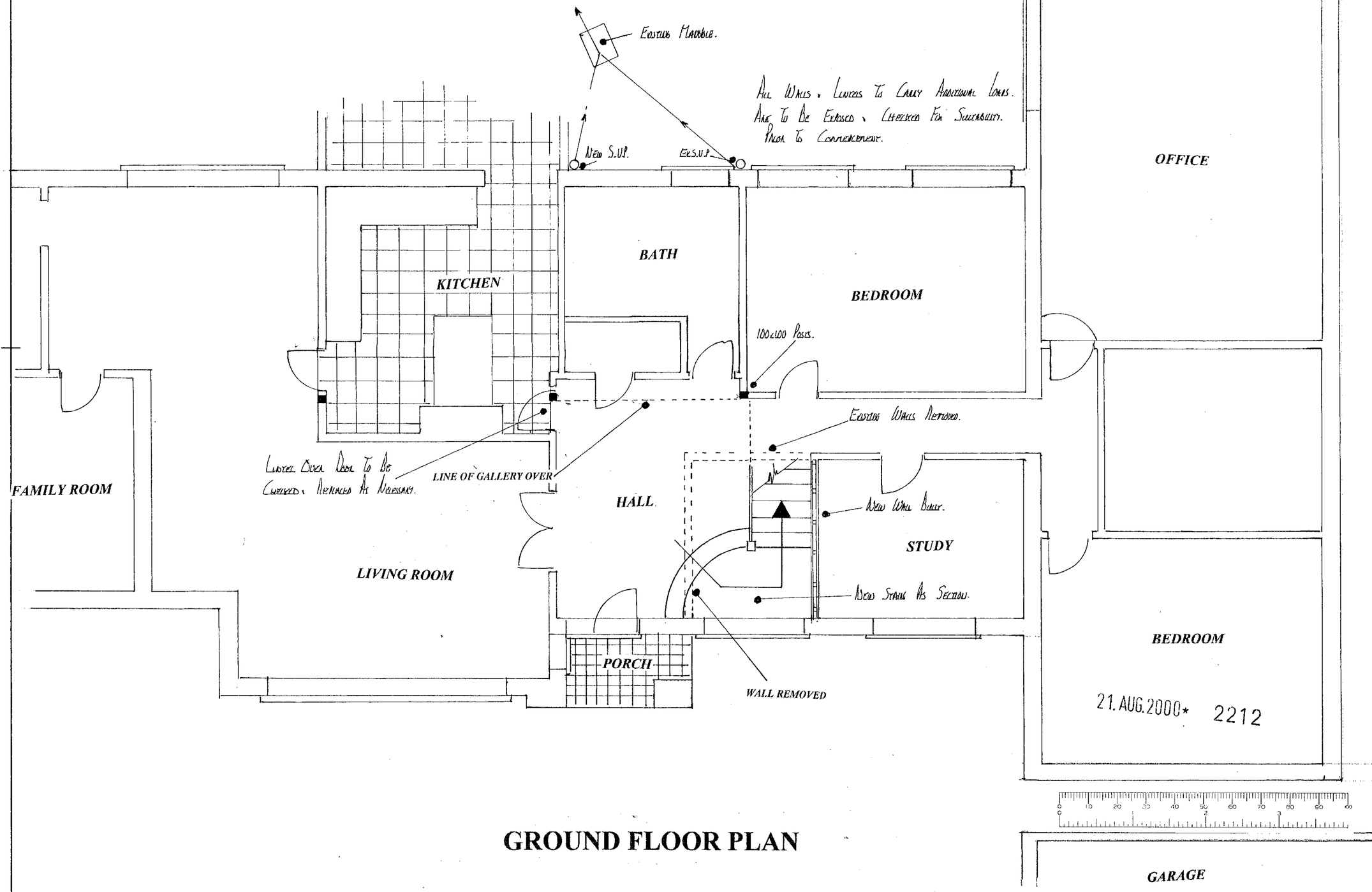

Proposed swimming pool extension
Ex conserv
TWO HOOTS
HOLLYBUSH RID
0 10 20 30 40 50 60 70 80 90 100
0 1 2 3
APPROVEL
24.JUL.1998* 68079
SCALE 1:500

SURREY BUILDING SERVICES
01252 838168
ARCHITECTURAL & BUILDING CONSULTANTS

Notes:
All dimensions must be checked on site and not scaled from this drawing.



GROUND FLOOR PLAN

A		
	Date	Revisions

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Client
MR WILSON

Job Title
TWO HOOTS
HOLLYBUSH RIDE
WOKINGHAM
BERKS

Drawing Title
PROPOSED LOFT CONVERSION

Scale 1:100 1:50

Date JUNE 2000

Drawn by

Drg. No. 211/06/00/02

Rev.

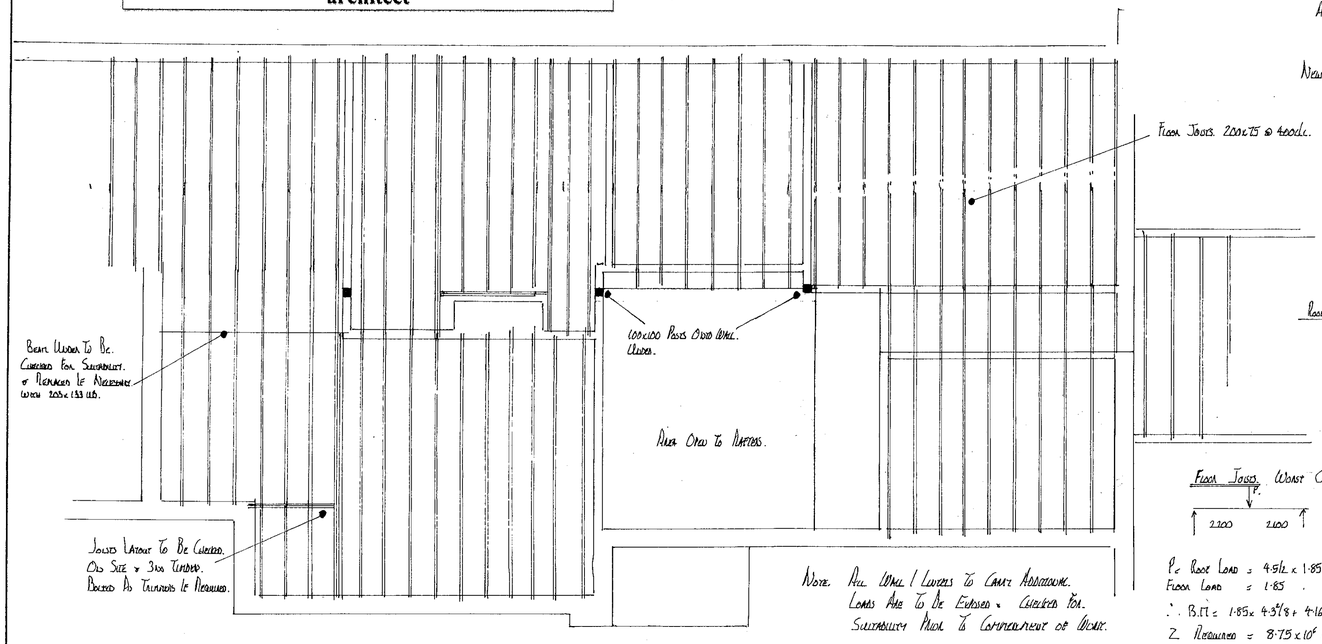
(ARCH.)

420 x 594mm A2

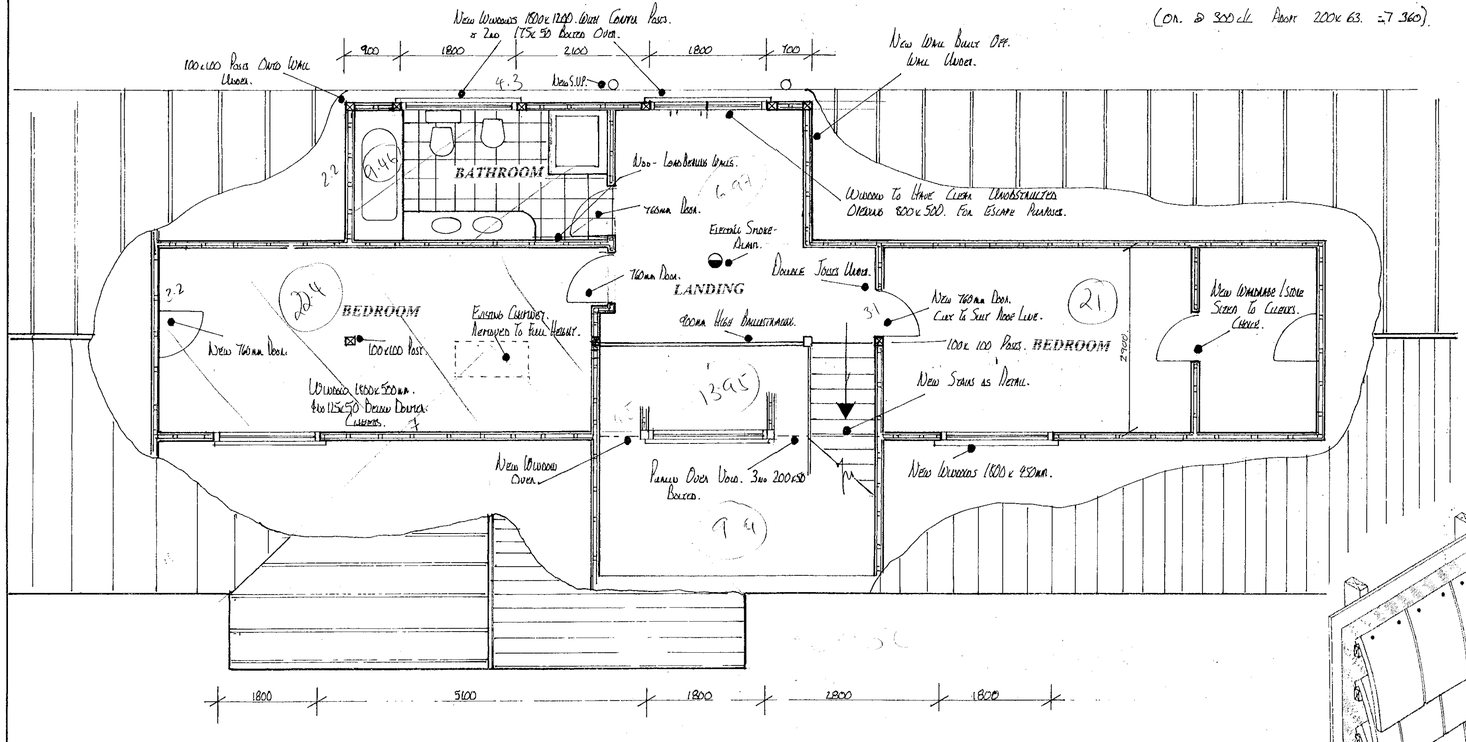
NOTE

Due to the nature of the works, it is imperative that all measurements are checked on site prior to undertaking any areas of work. Any discrepancies or variations should be reported back to the architect

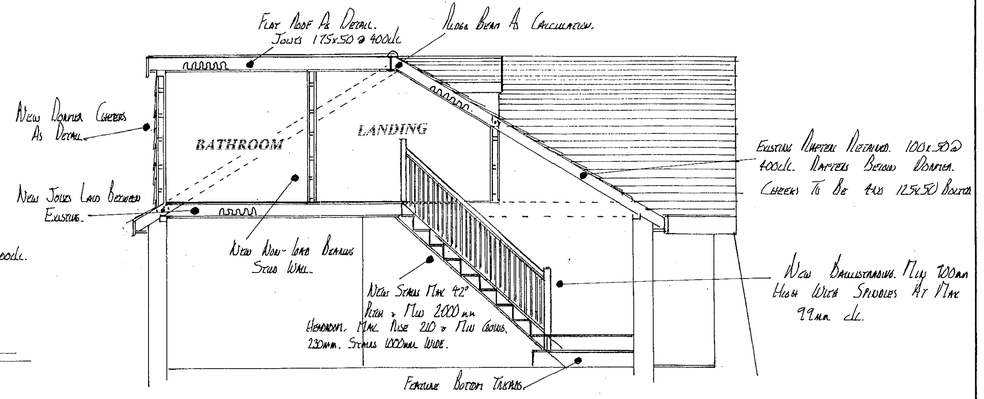
PROPOSED LOFT CONVERSION



JOIST PLAN



FIRST FLOOR PLAN



SECTION

Roof Joist. Span. 3600mm.

B.M. = 3600/18 x 1.65 = 2.67 kNm.

Z. Required = 2.67 x 10^6/53x1.1x1.25 = 36.7 x 10^3 mm^3/m.

@ 400c/c. 150 Required.

Adopt 175x 50 @ 400 c/c.

Floor Joists. Worst Case Span 4500mm.

Pc Roof Load = 4.5/2 x 1.85 = 4.16.

Floor Load = 1.85.

∴ B.M. = 1.85x 4.5²/8 + 4.16 x 2.2 x 2.2/4.3 = 8.75 kNm.

Z. Required = 8.75 x 10^6 / 53x 1.1x1.25 = 1.2 x 10^3 mm^3/m.

@ 400c/c. 480 Required.

200x 75 :7 500. SCA To Lower Dr.

(Cor. @ 300 c/c Adopt 200x 63. :7 360)

Ridge Beam. Span. 4100mm.

Load: Flat Roof 1.65 kN.

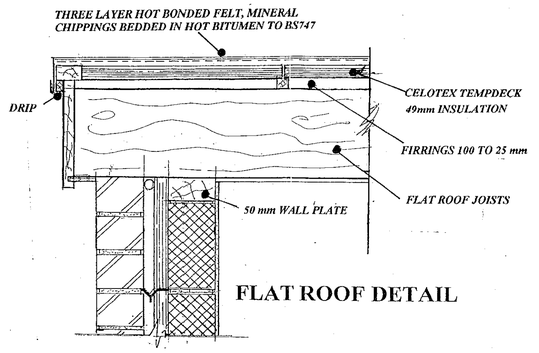
Purlin. 1.85 x 4.5/2. 5.81 kN.

B.M. = 5.81 x 4.1²/8 = 12.2. kNm.

Z. Required = 12.2 x 10^6 / 53x 1.1 = 20.93 x 10^3 mm^3/m.

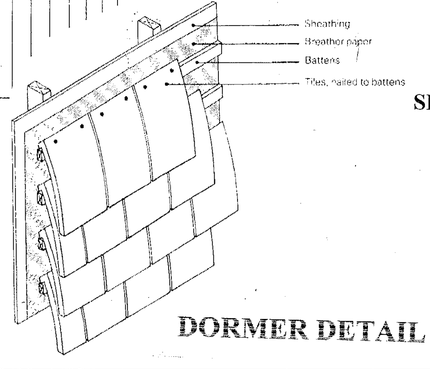
∴ Adopt 4no 225x 75 Bolted. (:7 2532)

(Alternative Adopt UB. 203x 133 x 30 kg.)

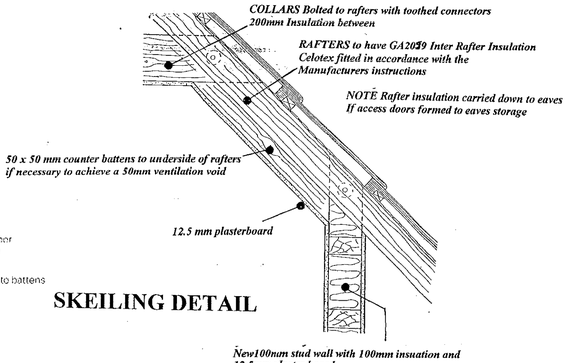


FLAT ROOF DETAIL

21.AUG.2000* 2212



DORMER DETAIL



SKEILING DETAIL

Notes:
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Date		Revisions

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SURREY BUILDING SERVICES
ARCHITECTURAL & BUILDING CONSULTANTS
JAMES TEMPLEMAN ACIOB
14 GLAMIS CLOSE
FIRMLEY
CAMBERLEY
SURREY GU16 6YR
PHONE 01252 838166
FAX 01252 838166
SBS@ARCHITECTURAL.FBUSINESS.CO

Client

MR WILSON

Job Title

TWO HOOTS
HOLLYBUSH RIDE
WOKINGHAM
BERKS

Drawing Title

PROPOSED LOFT CONVERSION

Scale: 1:100 1:50

Date: JUNE 2000 | Drawn by: JWT

Drg. No. 211/06/00/03 | Rev.

(ARCH.)

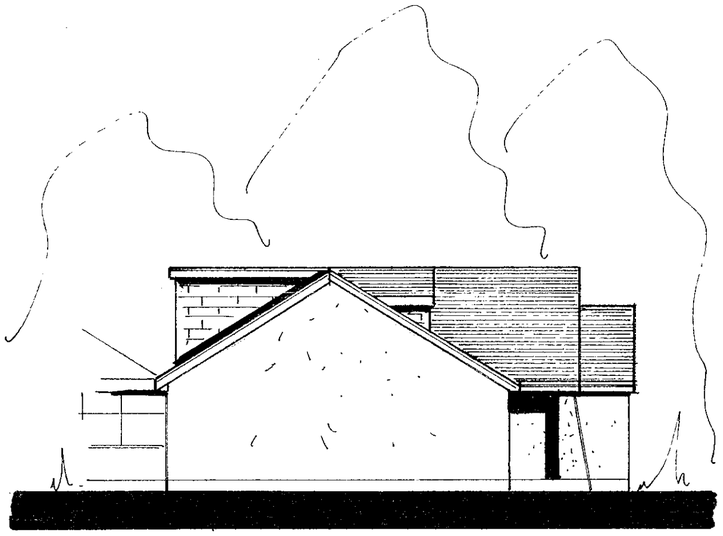
10 20 30 40 50 60 70 80 90

@ 21/11/00

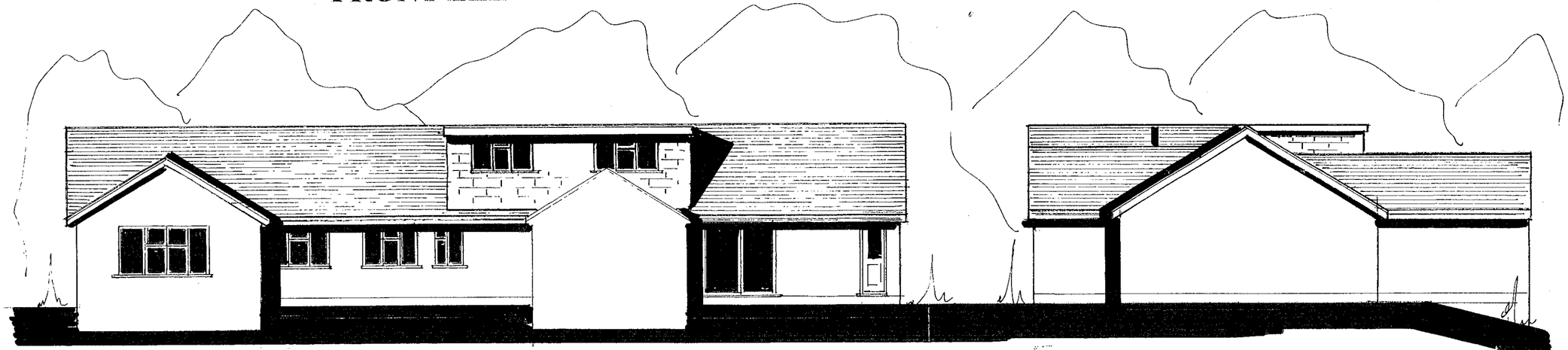
594 x 841mm A1



FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION

SIDE ELEVATION

BUILDING NOTES

FOUNDATIONS
All foundations to carry additional loads are to be checked for suitability prior to the commencement of work. To be founded at a depth to suit subsoil and below all drain invertsAny drains passing through foundation walls to have lintels over.

EXTERNAL WALLS
As detailed on plans
Vertical D.P.C.'S & Thermocore or similar to be provided at all reveals and abutments.

LINTELS AND BEAMS
All lintels tocarry additional loads are to be checked for
All exposed faces to lintels are to have 15mm two coat gypsum plaster cover for fire protection. All beams to be treated with two coats of red oxide primer and are to be as detailed per calculations.

TIMBER
All timber to be tanalised and GS Grade to a Min. SC3 unless otherwise stated. All saw cuts to be treated on site.

PITCHED ROOF
All timbers as shown on sections.
Rafters to have one layer untearable roofing felt with softwood tile battens to tile gauge with tiles to match existing house. Ridge board to be 200 x 38mm as are hip boards. Lateral restraints at 1500 c/c All rafter feet to be tied back . Lateral restraints to be provided to gable walls at 1.0m c/c Soffits to be masterboard or similar with vents equivalent to 25mm continuous air gap with
insect mesh. Ridge vent to be provided to new ridge at 1.0m c/c Code 4 lead to all abutments and any valleys to be formed as detailed in Code 5 lead.

GLAZING
All windows to be fitted with double glazed units. Trickle vents to all new windows and patio doors of a Min 8000mm sq. for background ventilation.
All glazing to doors below 1500mm and windows within 800 mm of floor level to have toughened glass to BS 6206. or laminated safety glass., all to be clearly marked as such.
All windows to match existing house or as detailed.

NOTE
Central heating and existing electrical system to be extended to suit clients requirements.All materials used to match existing house as closely as possible.

RAINWATER GOODS
New rainwater goods to be 75mm p.v.c. to match existing house. New downpipes to be 65mm diameter p.v.c.

DRAINAGE
s.v.p.'s to be 100mm u.p.v.c. pipe with Min. 200mm radius bends at ground level and to and to have rodding access. Pipe to continue a Min. 900mm above window head height. All waste to connect separately to s.v.p. via 50mm p.v.c. pipe with rodding access at all changes of direction and with 75mm anti-syphon traps. New drains to be 100mm u.p.v.c. flexibly jointed, laid on and surrounded by 150mm granular fill to a fall 1:40. Lintels to be provided over all new drains and a concrete cover a Min.150mm thick over any drains within 300mm of ground level. New manholes to be formed with 150mm concrete base, 225mm engineering brick side and a stainless steel cover and frame. All benching to manhole to be smooth and any disturbed benching to be made good.

INTERNAL WALLS
Block walls to be 100mm Celcon blocks with foundations under and two coat 13mm plaster to both sides. Concrete lintels to be provided over all door openings.
Stud walls to have 100 x 50mm timber studs at 400c/c with insulation between and 12.5mm plasterboard to both sides with a 7mm plaster skim.

VENTILATION
Bathroom - to have mechanical extractors ducted to outside and to be capable of 30 litres per second. Extractor to be linked with light switch if no other ventilation to room and to have a 4 minute overrun.

21.AUG.2000* 2212

0 10 20 30 40 50 60 70 80 90 100
1 2 3

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CD 21/11/00.