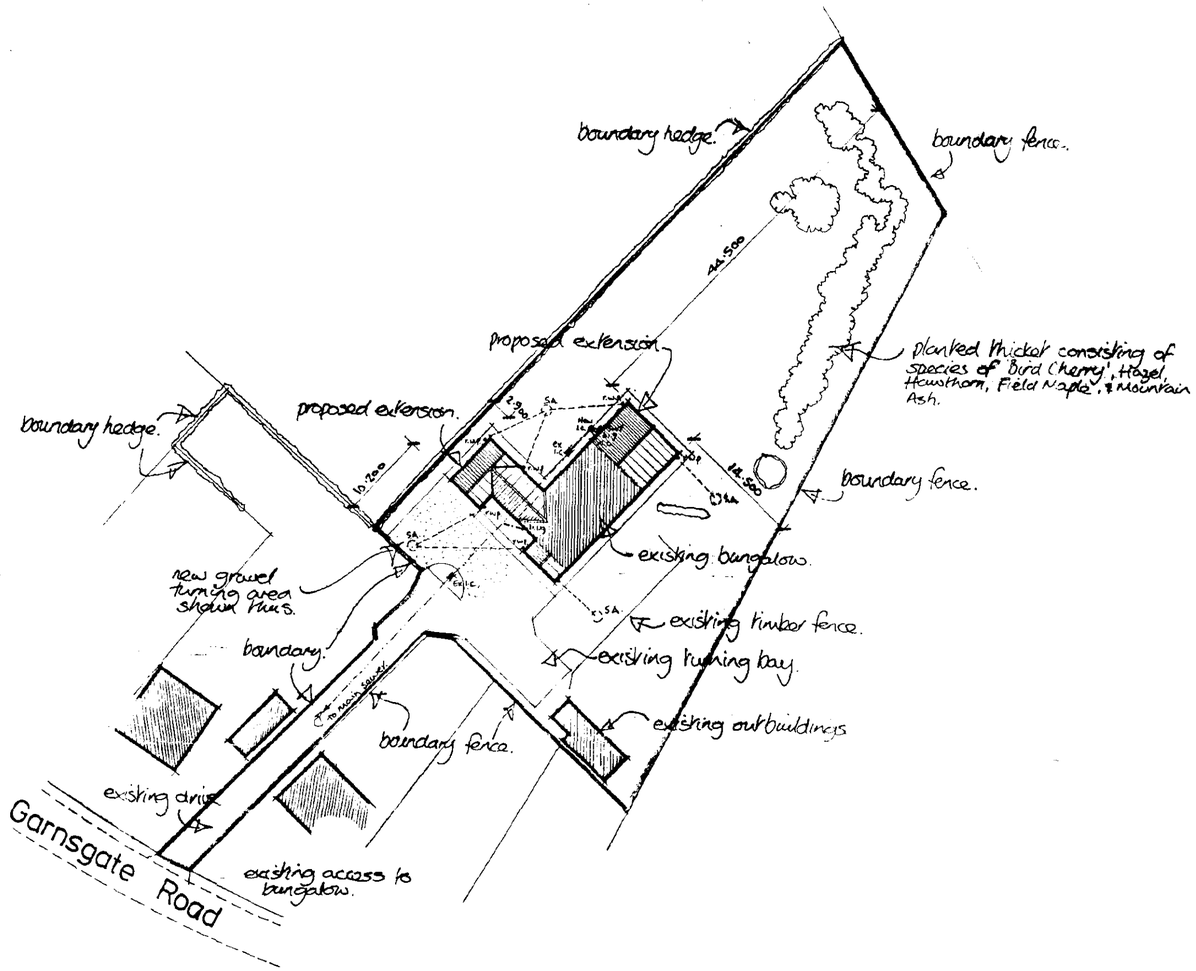
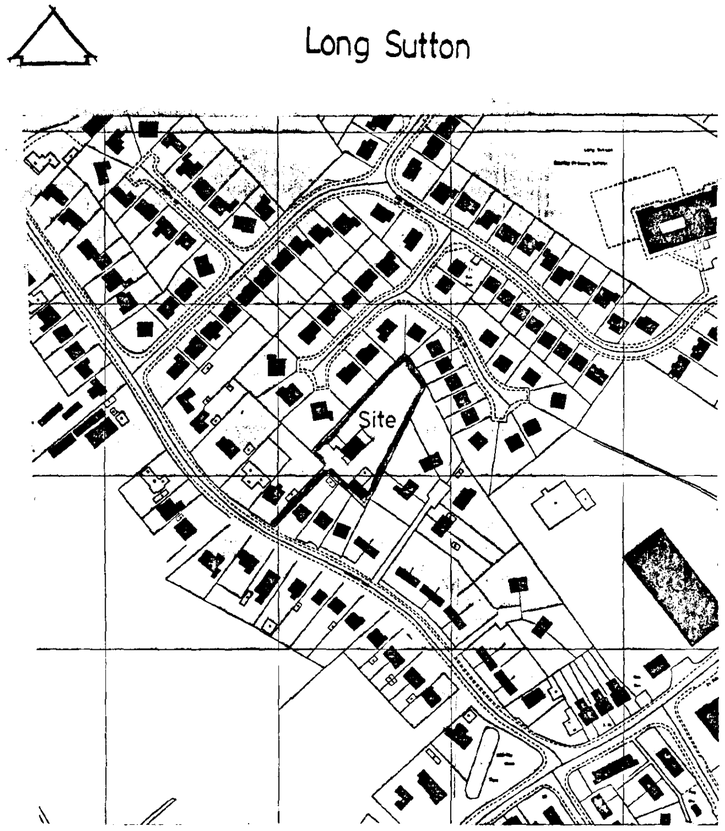


Block Plan 1:500



Location Plan 1:2500

Amendments

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Job
Alterations & Additions To Bungalow

Drawing
Location & Block Plan

Scale
As Shown

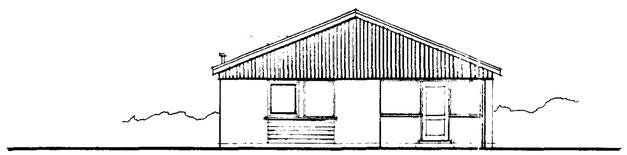
Date
March '96

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030.2

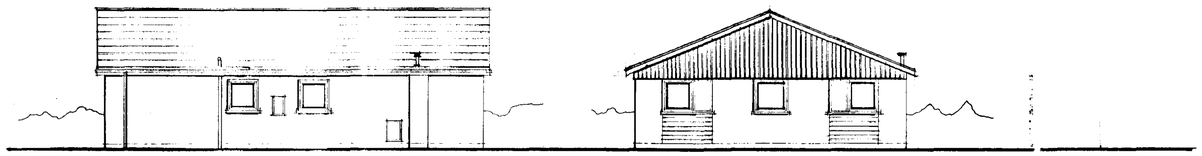
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DETERMINED
PLAN

0293/96

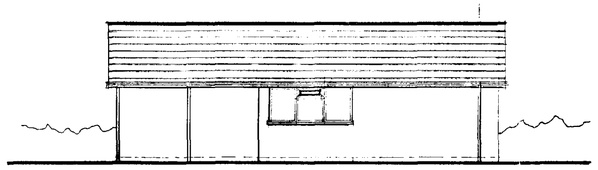


South Elevation

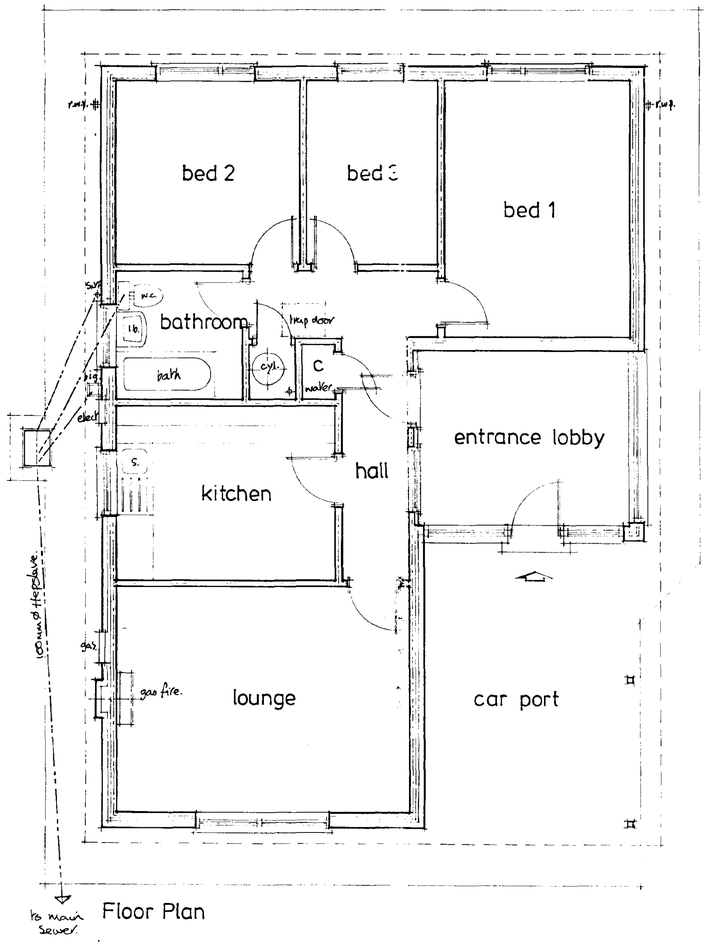


West Elevation

North Elevation



East Elevation



Floor Plan

SOUTH HOLLAND DISTRICT COUNCIL
PLANNING
11 APR 1996
Ref. o 0313/96

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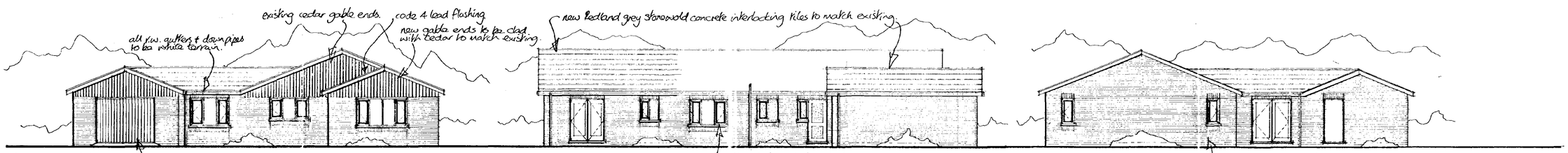
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Plan & Elevations As Existing

Scale
1:50 1:100

Date
Feb '96

No.
030

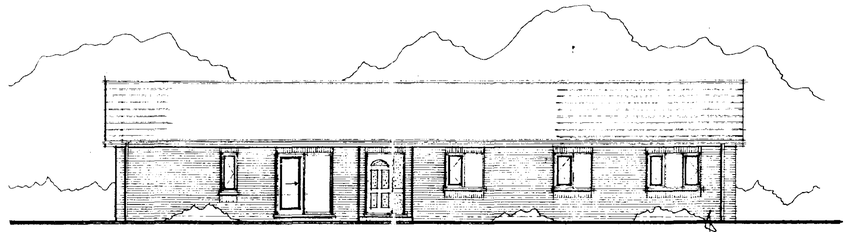
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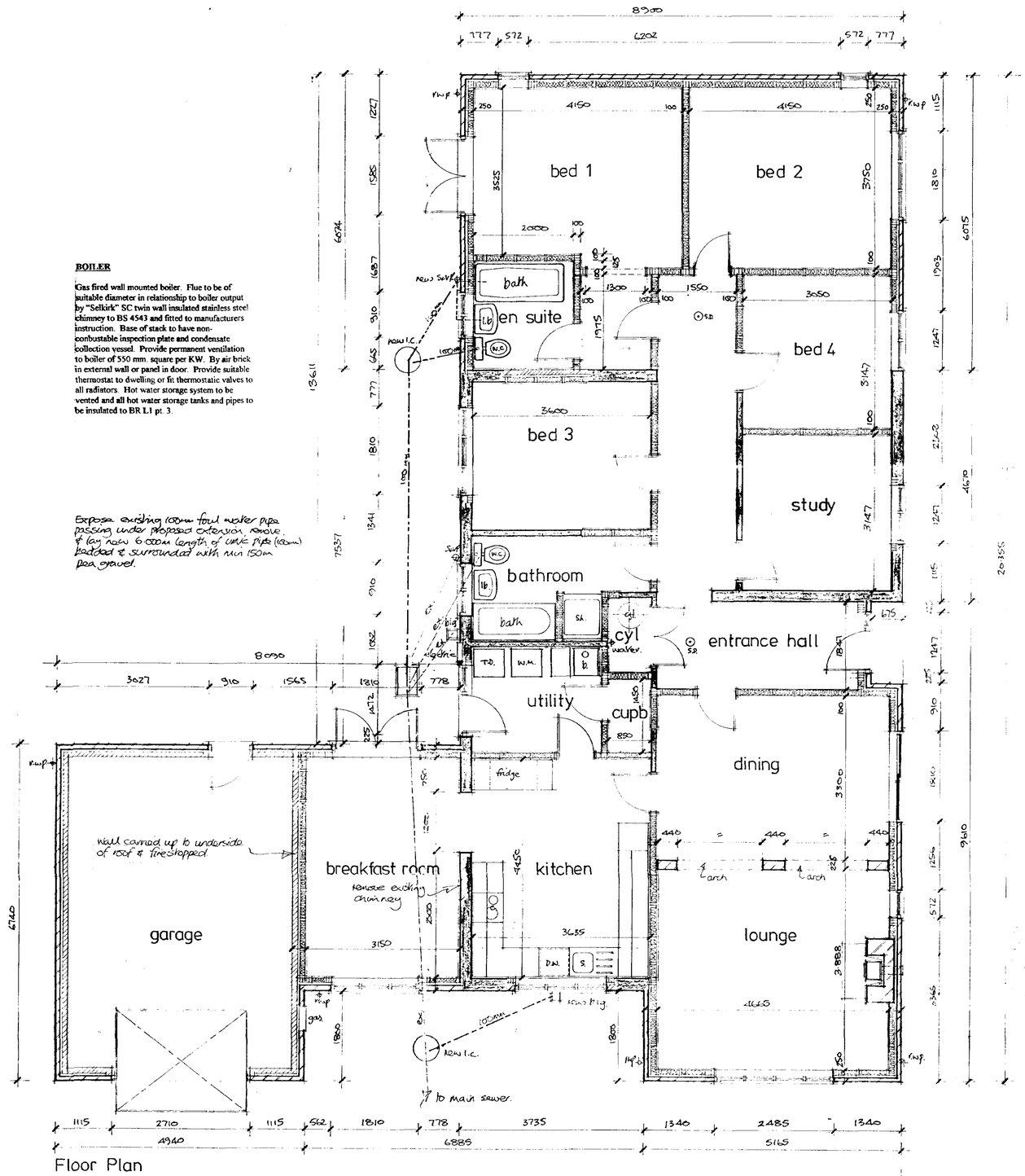
South Elevation

West Elevation

North Elevation



East Elevation



Floor Plan

BOILER

Gas fired wall mounted boiler. Flue to be of suitable diameter in relationship to boiler output by "Selkirk" SC twin wall insulated stainless steel chimney to BS 4543 and fitted to manufacturers instruction. Base of stack to have non-combustable inspection plate and condensate collection vessel. Provide permanent ventilation to boiler of 550 mm. square per KW. By air brick in external wall or panel in door. Provide suitable thermostat to dwelling or fit thermostatic valves to all radiators. Hot water storage system to be vented and all hot water storage tanks and pipes to be insulated to BR L1 pt. 3.

FOUL DRAINAGE

Inspection chamber construction to be "Osma" and installed in accordance with makers instructions with the internal diameter related to the depth in accordance with BS 8301: 1985. Foul drainage pipes to be 100 mm. diameter. uPVC, to BS 4660 : 1983, flexibly jointed and laid to makers instruction to a fall of 1:70. Bed and surround with 100 mm. pea gravel. Where pipes pass under floors, encase in 150 mm. pea gravel. Where pipes pass under drives, surround in 150 mm. concrete with flexel joints to correspond with joints in pipework. Provide 65 x 100 mm. prestressed concrete lintel bridging where pipes pass through walls, allow 50 mm. gap around pipe, opening masked both sides of wall with ridged sheet material.

Soil and vent pipes to be 100 mm. internal diameter PVC to BS 4514 : 1983, and to extend 900 mm. above window head terminating with PVC balloon. Waste pipes to be 40 mm. diameter PVC to BS 3943 : 1979. Complete with rodding eyes at every change in direction. Bath, basins and sink to have 75 mm. deep seal traps. Shower to be raised on 150 mm. plinth with access plate to anti-syphon trap and 50 mm. waste.

SMOKE DETECTORS

Provide mains operated self-contained smoke alarms to BS 5446, pt. 1, in positions shown on plan.

SURFACE WATER DRAINAGE

115 dia. half round rainwater gutters to 65 diameter. rainwater pipes 82.4 diameter. underground pipes flexibly jointed to a fall of 1:70 pipes bedded and surrounded in 100 pea gravel and discharge to 1.2 m. diameter. soakaway min. 5.0 m. from dwelling.

GLAZING

Double glaze property throughout (minimum 12 mm. air gap to all units), excluding garage. All glazing between finished floor level and 800 mm. high and between finished floor level and 1500 mm. high in doors and side lights to be safety glass to BS 6206.

VENTILATION

All windows to have opening lights to give the equivalent of 1/20th the floor area. Provide background ventilation to habitable rooms, minimum 8000 mm. square permanent free air ventilation per room. To all other rooms, provide minimum 4000 mm. square. All following rooms to have in addition to above wall/window mounted mechanical extractor fan. Kitchen to extract minimum 60 litres per second. Utility Rooms to extract minimum 30 litres per second. Bathrooms to extract minimum 15 litres per second which may be operated intermittently.

WALLING TO GARAGE

[illegible] mm. cavity walling to consist of face brickwork to BS 3921, 1974 for clay bricks and BS 187, 1978 for calcium silicate bricks 50 mm. cavity. Build into cavity Rockwool cavity wall batts insulating boarding in accordance with maker instructions and agreement certificate number 83/1087. 100 mm. Tarmac Hemelite solid insulation blocks or similar. Cavity walls tied together using galvanised iron twist ties set 900 mm. horizontally and 450 mm. vertically to BS 1243 : 1978. Wall ties positioned at 300 mm. vertical centres at all unbonded closures of cavity. Close cavities with "Thermabate" preformed closer and provide bitumen felt DPC to CP 121. External walls to have maximum "U" value of [illegible] W/m2 deg. C. Stud walls to consist of 38 x 100 mm. studs at 400 mm. centres, both sides to be clad with 12.7 mm. plasterboard and skim. 100 mm. glassfibre infill between studs.

Amendments

SC [illegible] 13 NOV 1996 Ref 0295/96

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Drawing

Floor Plan
Elevations

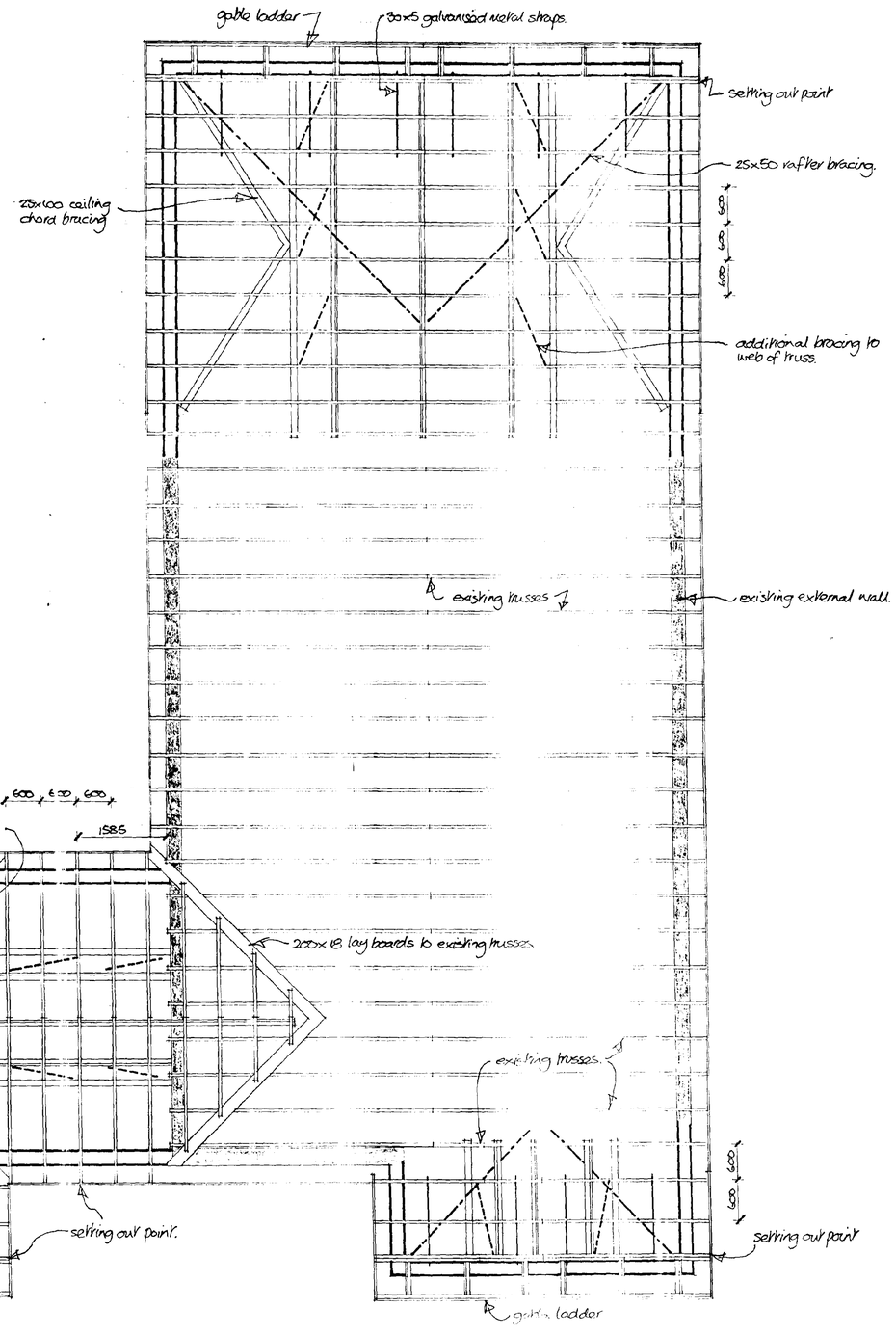
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No. 030.1 | Ref

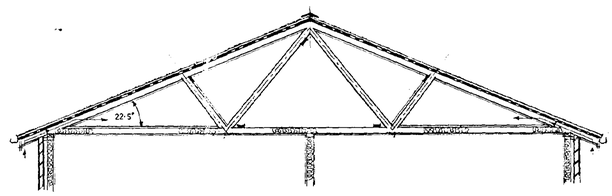
DETAILING PLAN

PITCHED ROOF CONSTRUCTION

Interlocking concrete roof tiles to BS 473 : 550 pt. 2 1971, on 25 x 38 mm. softwood treated battens on underfelt to BS 747 (type 1F) and in all cases to be lapped by 150 mm. both vertically and horizontally. Tiles to be laid with minimum headlap of 75 mm. and to be fixed in accordance with regard to wind speed, roof pitch and exposure category as detailed in CP3 chapter V part 2 1972. Twinaplate specialist made prefabricated roof trusses to comply with BS 5267 part 3 1985, Trusses to be fan type at 600 centres to a pitch of 22.5 deg 38 x 100 mm. ridge node binder 2 No 38 x 100 mm. ceiling binders. All trusses to be strapped to wall plate by 30 x 5 mm. galvanised metal straps acting as anchor and lateral restraint straps at maximum 1.5 metre centres. Note : provide solid bridging beneath straps, 50 x 100 mm. wall plate, 25 x 175 mm. fascia boards, 6 mm. exterior grade plywood soffit complete with 10 mm. wide continuous air gap and fly proof screen. All structural timber to be minimum SC3 grade. Where span of trussed rafter exceeds 5.0 metres, provide additional bracing within the plane of the web in accordance with Truss Plate Association Technical Bulletin Sheet 4. Timbers supports are to be provided beneath water storage tanks over 4 No. ceiling joists. At roof intersections, provide 25 x 100 mm. lay boards and diminishing trusses at 600 centres. Install code 4 lead valley liner. Close cavity at plate level.



Roof Plan



Section Thro' Roof

Amendments

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01 APR 1996
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Drawing
Roof Plan

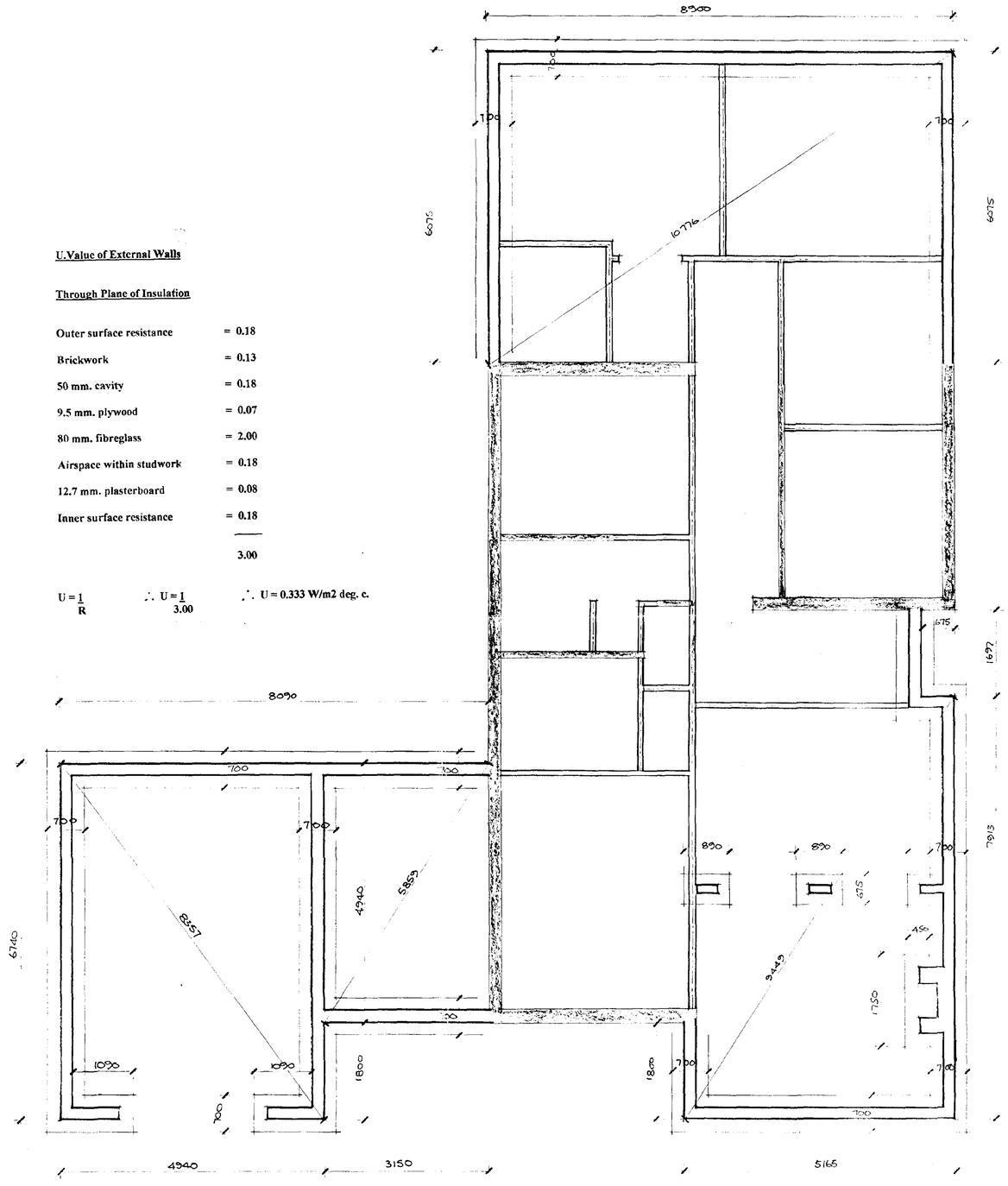
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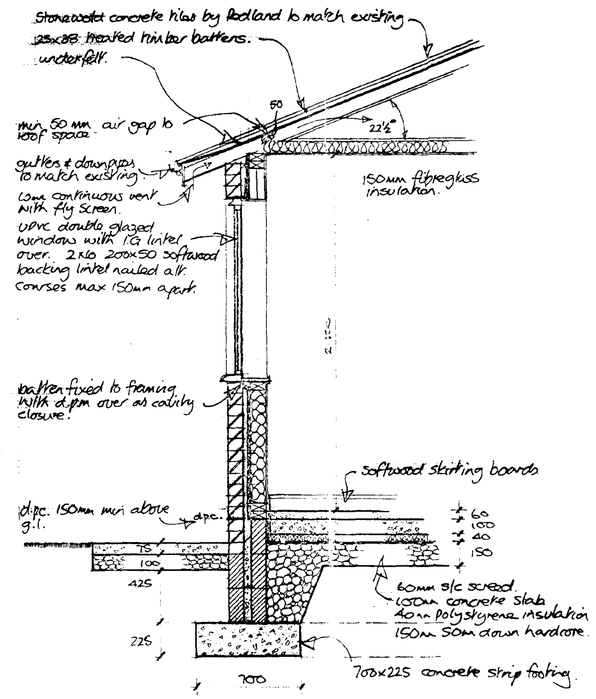
U.Value of External Walls

Through Plane of Insulation

Outer surface resistance	= 0.18
Brickwork	= 0.13
50 mm. cavity	= 0.18
9.5 mm. plywood	= 0.07
80 mm. fibreglass	= 2.00
Airspace within studwork	= 0.18
12.7 mm. plasterboard	= 0.08
Inner surface resistance	= 0.18
	3.00

$U = \frac{1}{R}$ $\therefore U = \frac{1}{3.00}$ $\therefore$ U = 0.333 W/m2 deg. c.





Section Thro'

SUB STRUCTURE WALLING

100 mm. dense concrete blocks to BS 6073 pt. 1 1981. DPC to external wall, positioned in accordance with CP 102 min. 150 above finished ground level. Weak mix concrete infill to base of cavity, no closer than 225 mm. to DPC. All brickwork below DPC to be F.L. quality.

GROUND FLOOR CONSTRUCTION

Strip all vegetable soil and lay floor as follows. 70 mm. sand and cement screed with chicken wire reinforcement on 500g. polythene DPM on 50 mm. polystyrene insulation board, on 1200 g. polythene DPM lapped continuous with DPC by min. 100 mm. on 100 mm. concrete oversite. Concrete mix ST4 to BS 5328 1990 : 150 mm. blinded and consolidated hard-core. Garage floor to be as above except sand cement screed and insulation.

FOUNDATIONS

Under walls as shown. 250 - 225 x 700 mm. concrete strip foundations ST4 mix to BS 5328 : 1990. All foundations taken down to bear on load bearing strata minimum depth of 600 mm. to top of foundations, should shrinkable soil conditions be found on site, then foundations shall be taken down to a depth of one metre below ground level.

LINTELS

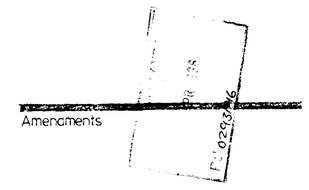
All lintels to be as manufactured by Messrs. I.G. and to be installed in accordance with makers instructions and to have minimum end bearing of 150 mm. and at external positions to have cavity tray DPC to CP 121. Lintels in garage to be underlined with 12.7 mm. fireline board or receive 12 mm. render and skim.

WALLING TO BUNGALOW

250 mm. cavity walling to consist of face brickwork to BS 3921 : 1974, for clay bricks, 50 mm. cavity. 100 mm. timber frame internally of building paper breather membrane minimum laps of 150 mm. fixed to 12 mm. exterior grade ply on 100 x 50 mm. lumber treated studs at maximum 600 mm. centres. Infill between studs with 80 mm. glassfibre. Clad studs with 12.7 mm. plasterboard and skim. Form 40 x 50 mm. fire stops to all openings and at all corners of walls. Stainless steel wall ties set 900 mm. horizontally, 450 mm. vertically to BS 1243 : 1978. Ties to be positioned at 300 mm. vertical centres at all openings. External walls to have a minimum "U" value of 0.45 N/m2 deg. C.

CEILINGS

200 mm. glassfibre insulation, total thickness, 100 mm. between rafters and 100 mm. over rafters. 12.7 mm. Gyproc "duplex" plasterboard Artex, minimum 38 x 38 mm. noggins to all plasterboard edges. All joints to be taped and filled. Garage ceiling to be 12.7 mm. Gyproc Fireline board and Artex. Provide access trap to roof space, opening to be lined with 25 x 25 mm. planted stops. Access panel to be 12 mm. ply with layer of 12.7 mm. Fireline board fixed to face.



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Job
Alterations & Additions To Bungalow

Drawing
Foundation Plan
Section Thro'

Scale
1:50 1:20

Date
March '96

No
030.5

Ref