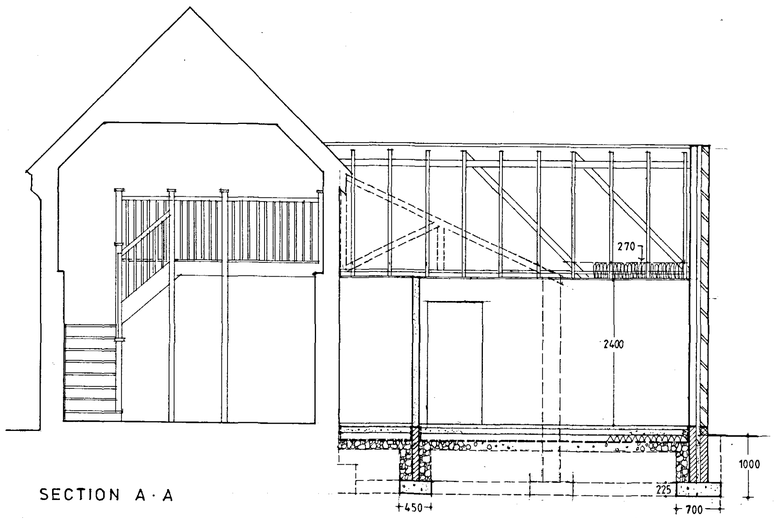


SECTION A·A

GROUND FLOOR: Min. 150mm well consolidated hardcore with sand or dust blinding. 1200g polythene membrane lapped continuous with dpc by 100mm. 80mm Celotex fast-RFF 3000 cut to lap up walls at perimeters. 500g membrane. 100mm concrete laid oversite. 50mm sand and cement screed giving a 'U' value of 0.21W/m2k.

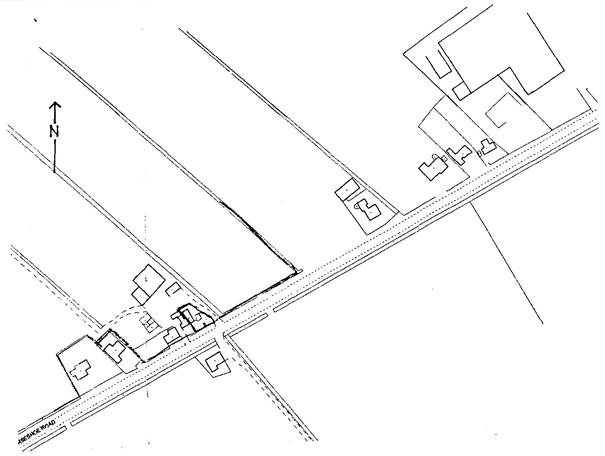
FOUNDATIONS: 700 x 225 and 450 x 225 strip concrete foundations taken down to bear on suitable load bearing strata deemed to be 1.0M below natural ground level or as on site conditions or local authority building inspector dictates.

ROOF CONSTRUCTION: Interlocking concrete pantiles to match existing to BS:473:500 part 2:1972 on 25 x 38 softwood treated battens and underfelt to BS:747 type 1F and in all cases to be lapped by min. 150mm both horizontally and vertically. Tiles to be laid with a min. head lap of 75mm and to be fixed with regard to wind speed roof pitch and exposure category as detailed in BS:6399 part 2:1985. Specialist made prefabricated roof trusses to BS:5268 part 5:1985 set at max. 600mm centres. 25 x 100 ridge node and intermediate binders. Wind bracing to truss plate ass. Tech. bulletin sheet 1. 50 x 100 wall plate bedded on sand and cement. 30 x 5 galvanised metal straps to act as anchor and lateral restraint straps set at max. 2.0M centres. Lateral straps to be over min. 3 No. members with solid bridging beneath and straps down walls to be min. 900mm long. 25 x 150 lay board. Vulcanal fibreglass trough valley. All structural timber to be min. SC3 grade. 9mm external grade plywood soffits with min. *25mm continuous air gap with fly proof screens at eaves to promote and retain through and cross ventilation.* 270mm insulation quilt to roof space laid between and over ceiling joists. Maintain min. 50mm air gap at eaves. Roof insulation to be laid integral with wall insulation at eaves. 112 half round pvc. rain water gutters to 68mm down pipes to 110 dia. underground pipes laid to falls and flexibly jointed with bed and surround of 150mm pea gravel. Discharge to min. 1.2M dia. properly formed soakaways set min. 5M from buildings. 12.5mm plasterboard with Artex or 3mm skim finish. Any access traps to roof space to be fully insulated and 100% draft proofed.

WALLING: 280MM cavity wall construction to consist of face brickwork to BS:3921:1974 for clay bricks to match existing. 80mm cavity. Maintaining 25mm residual cavity. 55mm Celotex tuff-R CW3000 cavity wall insulation bats in complete accord with the makers instructions along with manufacturers wall ties and fixings. 100mm solid insulation blocks – Tarmac Hemelite 3.5 (lambda=0.45) set plaster and skim giving a 'U' value of 0.30 W/m2k. Wall ties to be positioned at 750mm horizontally and 450 vertically to BS:1243:1978. wall ties to be positioned at 225mm vertical centres at all unbonded closures of cavity. To all closures of cavity provide Damcor to makers instructions. Substructure walling to consist of 100mm Class A dense concrete blocks to BS:6703:part 1;1981. Dpc to be set min. 150mm above finished ground level. Weak mix infill to base of cavity and no closer to dpc than 225mm. Dpc's to BS:6398/8215:1991

WINDOW DOORS GLASS: Standard pattern framing to match existing all double glazed with min. 28mm thermal break and energy glass(Pilkington K) or similar. Toughened or laminated glass to all new doors. Glass to BS:6206:1981 and to Approved Document part N of the Building Regulations. Provide 100% draft proofing. Purge ventilation equal to 1/20th of floor area part of which must be at least 1.75M above floor level. Background ventilation with an equivalent area of 5000 sq. mm. All new openings consist of doors and will therefore act as adequate means of escape.

ELECTRICAL: All electrical works shall be carried out to the latest and current regulations and to Approved Document Part P of the Building Regulations. Reasonable provision shall be made in the installation of electrical installations in order to protect persons from fire or injury. Provide minimum 2No. light fittings that will only accept lamps with an efficiency of 40 lumens per circuit watt or better.



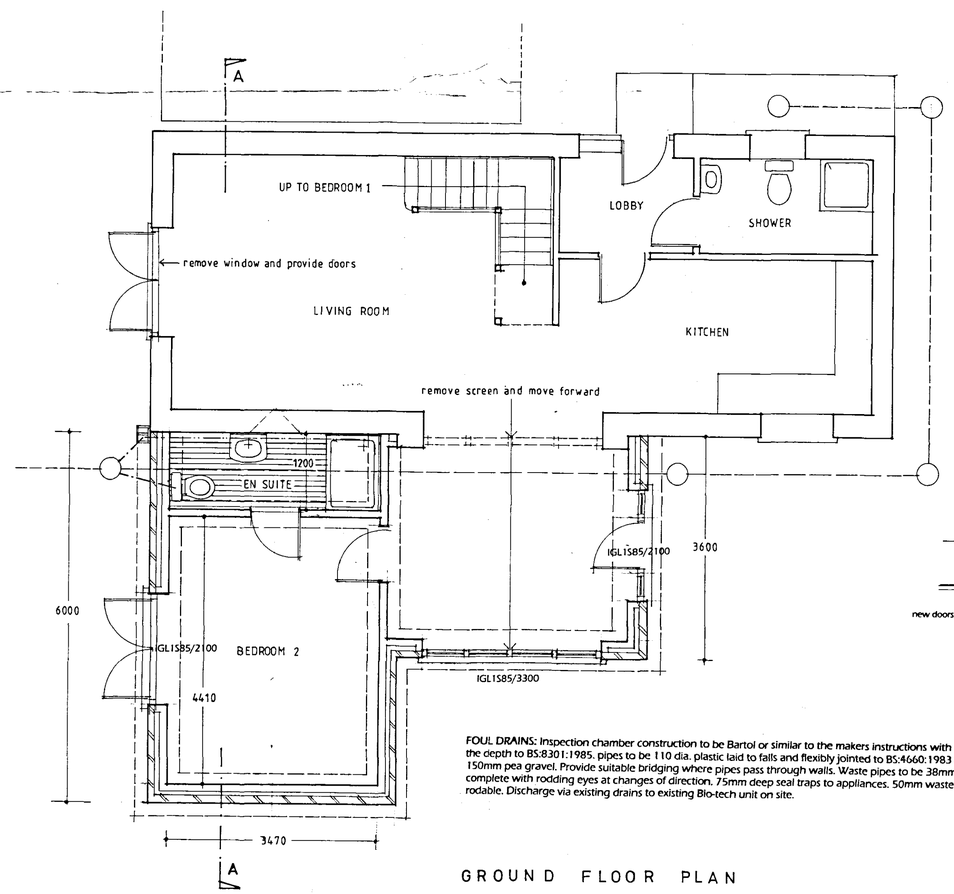
LOCATION PLAN 1:2500

MECHANICAL VENTILATION: To en-suite bathroom provide a mechanical ventilator offering min. 3 No. air changes per hour with a 20 minute over run and a minimum extract rate of 15 litres per second.

SMOKE DETECTORS: Mains operated smoke detectors exist but any additional units to be provided shall be interconnected and wired back to the distribution board and fused on a separate circuit.

LINTELS: As manufactured by Messrs. I.G. or similar and to be installed in complete accordance with the makers instructions and have min. 150mm end bearings and cavity tray dpc's to external positions.

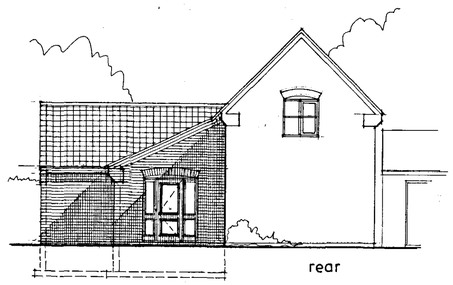
HOT WATER / HEAT: *Existing circuits to be extended through to new accommodation. Provide thermostatic radiator valves and insulate all pipes not contributing to useful heat output.*



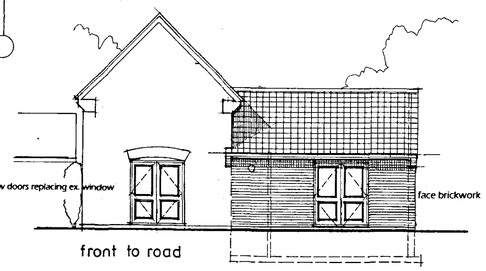
GROUND FLOOR PLAN

FOUL DRAINS: Inspection chamber construction to be Bartol or similar to the makers instructions with the internal dia. related to the depth to BS:8301:1985. pipes to be 110 dia. plastic laid to falls and flexibly jointed to BS:4660:1983 with bed and surround of 150mm pea gravel. Provide suitable bridging where pipes pass through walls. Waste pipes to be 38mm int. dia. to BS:3943:1979 complete with rodding eyes at changes of direction. 75mm deep seal traps to appliances. 50mm waste to shower. Gully to be rodable. Discharge via existing drains to existing Bio-tech unit on site.

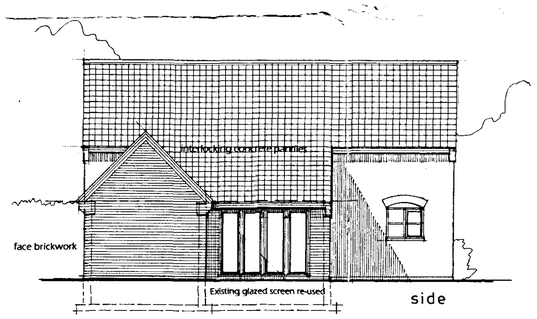
25% of the total floor area equals 25.85 sq.M - Total glazed areas equals 23.80 sq.M. Therefore compliant.



rear



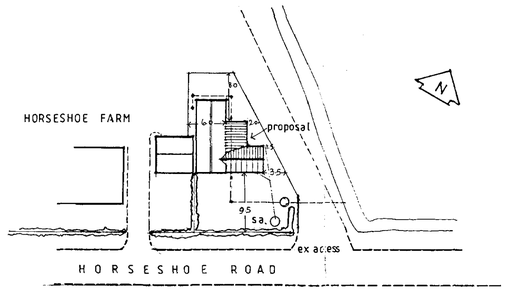
front to road



side

PLANNING & BUILDING CONTROL
11 JUL 2006
0982/06

DETERMINED PLAN



BLOCK PLAN 1:500

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Client: M WRIGHT. (C A WRIGHT & SON)

Project: PROPOSED EXTENSION TO 'THE BARN' HORSESHOE FARM HORSESHOE ROAD SPALDING PE11 3BE

Scale: 1:50 - 1:100

Date: JUNE 2006

Drawing No: 01

© This drawing is copyright

All dimensions to be checked and verified on site prior to commencement of works. Ground bearing capabilities are assumed to be normal unless deemed otherwise with due account given thereto. All drawings are issued, where appropriate, subject to Local Authority approvals.

The works shall comprise of that shown on the drawings and include any works that whilst not specifically shown but may be reasonably inferred as being necessary to carry out the works shall be deemed to be included. The drawings are limited in the amount of information contained and are specifically for the gaining of consents or considerations from Local Authorities. The works are not fully specified and drawings should not be used for Contract purposes.

Unless specified otherwise, no formal Flood Risk Assessment has been undertaken and due account therefore has been given to the discharge of surface and foul water to existing outfalls or as specified upon the drawing.