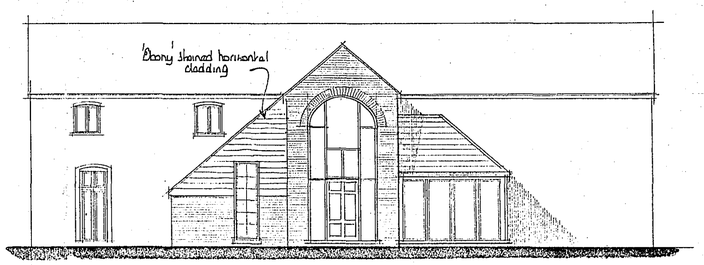
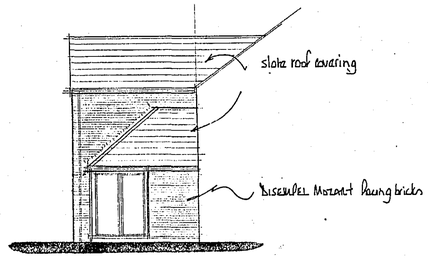


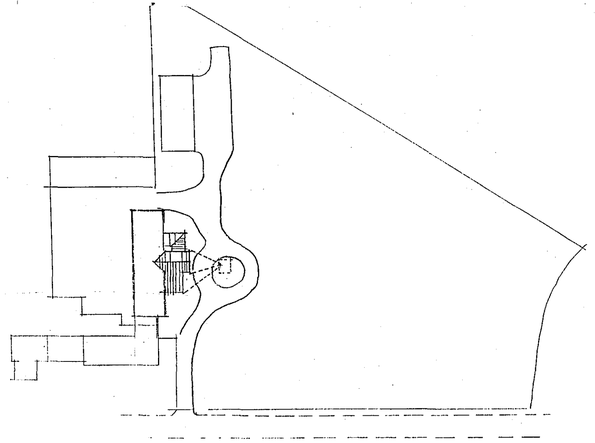
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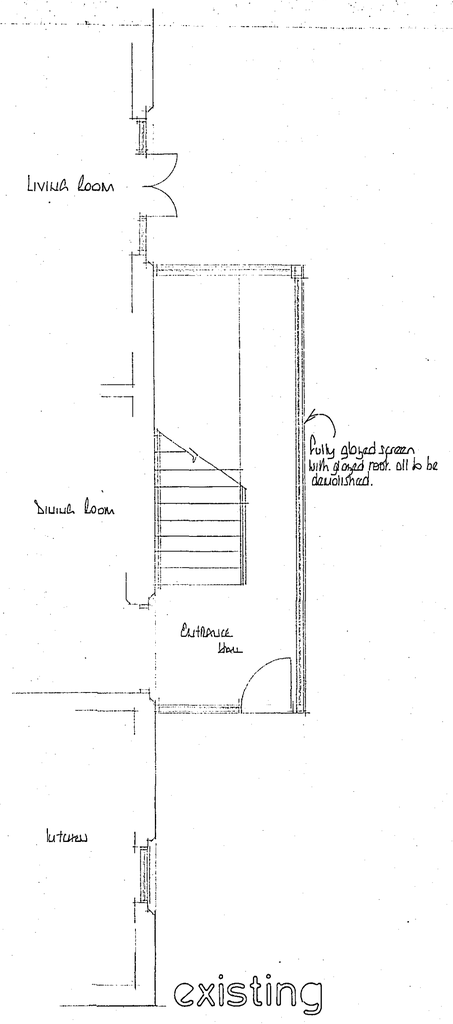
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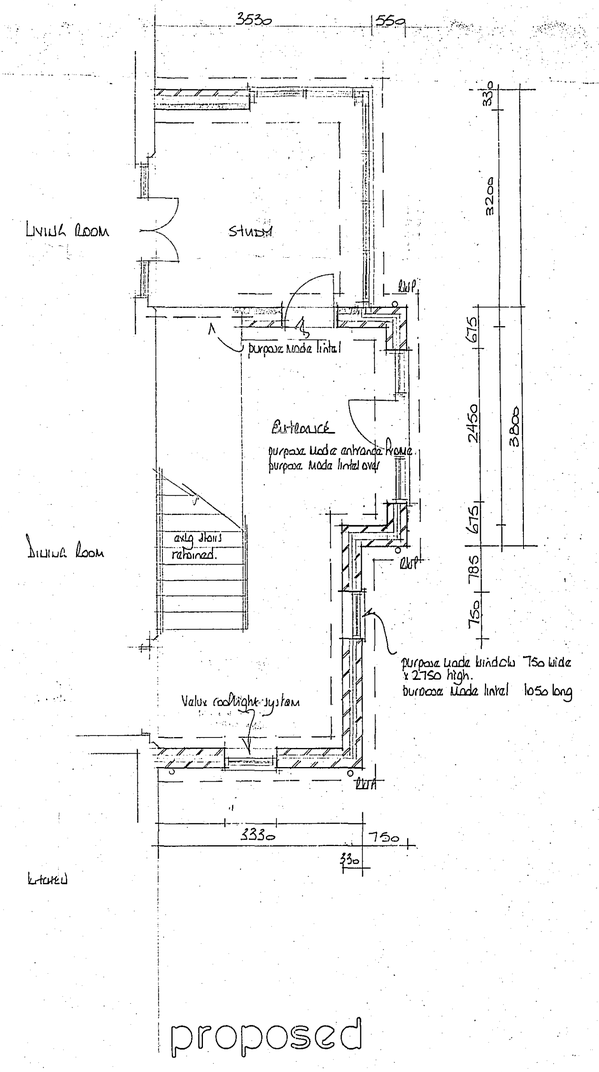
west



block plan



existing



proposed

FOUNDATIONS

Foundations to be ST4 grade concrete

For 330mm walls foundations to be 750 x 230mm

Foundations to be taken down to a firm loadbearing strata, a min. 1.0m if in shrinkable sub soil, in accordance with the requirements of the Local Authority Building Control Dept. and in accord with the NHBC guidelines for building near trees.
Site soil surveys are recommended in respect of foundations to establish specific site conditions before foundation work is undertaken.

FLOOR CONSTRUCTION

Ground
65mm sand/cement screed reinforced with chicken wire mesh
500g polythene separating membrane
80mm Celotex fast-R FF3000 floor insulation
100mm ST4 grade oversite concrete
1200g polythene damp proof membrane
25mm sand blinding
100mm compacted hard-core - if in excess of 100mm fill, to a max. 600mm, the hard-core is to be laid and compacted in layers not exceeding 150mm.
Strip off all vegetable soil beneath proposal.

WALL CONSTRUCTION

Below Ground
To be 100mm Class A concrete blocks
Cavity to be filled to 225mm below lowest dpc level with lean mix concrete

Above Ground
To be 330 mm o/a constructed as follows :-

100mm facing brick (to be FL quality below dpc level)
50mm cavity
80mm Celotex tuff R CW3000 insulation
100mm facing brick/100mm block

All to be tied together using stainless steel wall ties positioned at distance not exceeding 750mm horizontally, 450mm vertically and staggered. To be at every block course vertically at all returns and reveals.

Internal finish, where applicable, to be 12mm render with gypsum plaster skim finish to give a 'U' value of 0.3W/mK

DPC in Walls
To be a min. 150mm above finished ground level
An insulating vertical cavity closer and dpc, i.e. Thermabate, is to be provided to all cavity closures.
A dpc cavity tray, stepped as applicable, is to be constructed within the wall immediately above an abutment.

External Claddir.g
Horizontal timber cladding
38 x 25mm tanal. vertical battens
100mm Tarmac hemelite blockwork

LINTELS

Lintels to be Catnic, or similar and equivalent, to have a min. 150mm end bearing and be installed in strict accordance with manufacturers instructions with a dpc cavity tray over where applicable.

Lintels to be protected with min. 15mm gypsum plaster skim finish to give a min. half hour fire protection.

WINDOWS & DOORS

Windows and doors to be purpose made oak, or similar and approved, double glazed using glass having a soft low E coating with an emissivity value of 0.05 with min. 16mm air gap to sealed units and weather stripped.
'U' value of double glazing to be 1.8W/m²K
Double glazing manufacturers certificate to be provided to prove compliance of the glazing to that specified.

Glazing to windows less than 800mm and doors (include sidelights to doors) less than 1500mm above floor level is to be laminated or toughened glass in accord with BS6206 : 1981.

VENTILATION

All habitable rooms are to have windows containing hinged or pivoted opening vents (which open greater than 30°) or sashes, the combined total of which is equal to not less than 1/20th of the floor area of the room
If the vents open at an angle of less than 30° then the combined total is to be not less that 1/10th of the floor area.

Back ground ventilation is to be provided, either by trickle vents set within the construction of the windows or by airbricks through the walls with a controllable hit/miss vent on the inside. The area of trickle vents to habitable rooms is to be a **minimum** of 5000mm².

SMOKE DETECTION

Self contained smoke alarms complying with BS5446 : Pt 1 : 1990 are to be installed where indicated **SD** on the drawing. An alarm must be positioned within 3.0m of bedroom doors.

The alarms are to be permanently wired to a separately fixed circuit at the distribution board operating at a low voltage via a mains transformer.

Where more than one smoke alarm is required the units are to be interconnected so that the detection of smoke by one unit operates the alarm signal in all units.

The wiring installation is to comply with the I.E.E. Regulations.

ELECTRICAL INSTALLATION

The electrical installation is to be carried out by an electrician registered with NICEIC, ECA or NAPIT. The electrician is to issue a design, installation and test certificate under BS7671 upon completion of the works.

Any electrical fitting indicated on the drawing in a position contravening these regulations must be relocated in order to achieve full compliance.

All switches, sockets, tv points and telephone jackpoints are to be located at a height between 450 and 1200mm above finished floor level.

25% of all light fittings are to be comprised of fluorescent tubes or compact fluorescent lamps or other light fitting which will only accept lamps having a luminous efficacy greater than 40 lumens per circuit –watt.

External light fittings i.e. porch etc. are to be controlled by the fitting of passive infra red's with bulkhead fittings having sockets that can only be used with lamps having an efficacy greater than 40 lumens per circuit-watt.

HOT WATER/CENTRAL HEATING SYSTEM

Thermostatic radiator valves are to be installed with a room thermostat provided to switch off the boiler when there is no demand for heating or hot water.

All pipes not contributing to useful heat requirements are to be insulated using an insulation material with a thermal conductivity not exceeding 0.45W/mK and a thickness equal to the external diameter of the pipe up to a max. of 40mm.

DRAINAGE

Surface
Excavate for and lay in where indicated 100mm diam. flexible jointed UPVC drains on 100mm pea gravel bed from 100mm diam. upturned bend at base of downpipe to surface water soakaway.

Form soakaway where indicated a min. 5.0m from the nearest building. Excavate 1200 x 1200 x 1200mm deep, backfill with brick rubble to 300mm below ground level, lay in sheet polythene and make up with vegetable soil.

b 20-07-07
Glazing & study amended

Rev a 29-05-07
Wall thickness note amended to 330mm
Air gap to glazing increased to 16mm

EAST MIDLANDS DESIGN ASSOC.
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Client
Mr & Mrs T Abbott

Project
Proposed Entrance Hall and Study At 'The Granary' North Drove Spalding. Lincs

Drawing
Plans & Elevations as Proposed

Scale 1:50 & 1:100

Date 20.01.06 Drawn BL

Dwg. No: 06/14/01 Rev. b