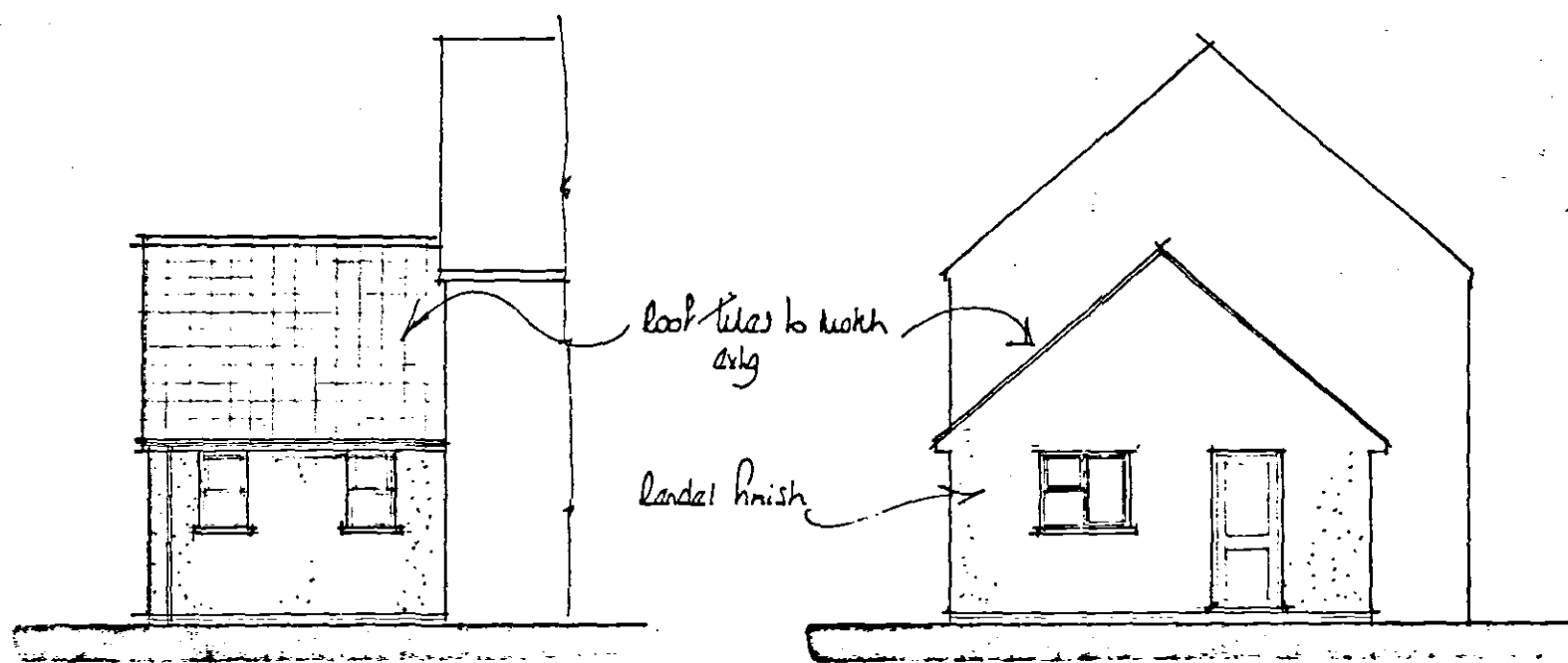
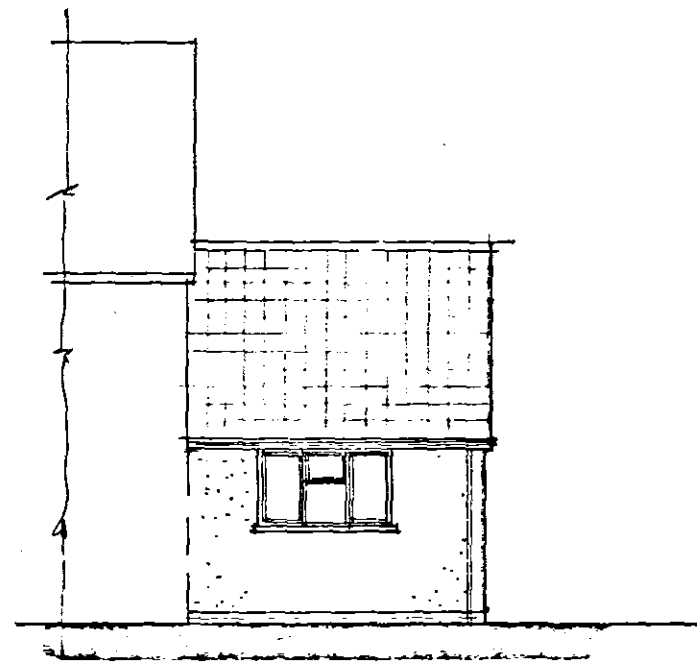


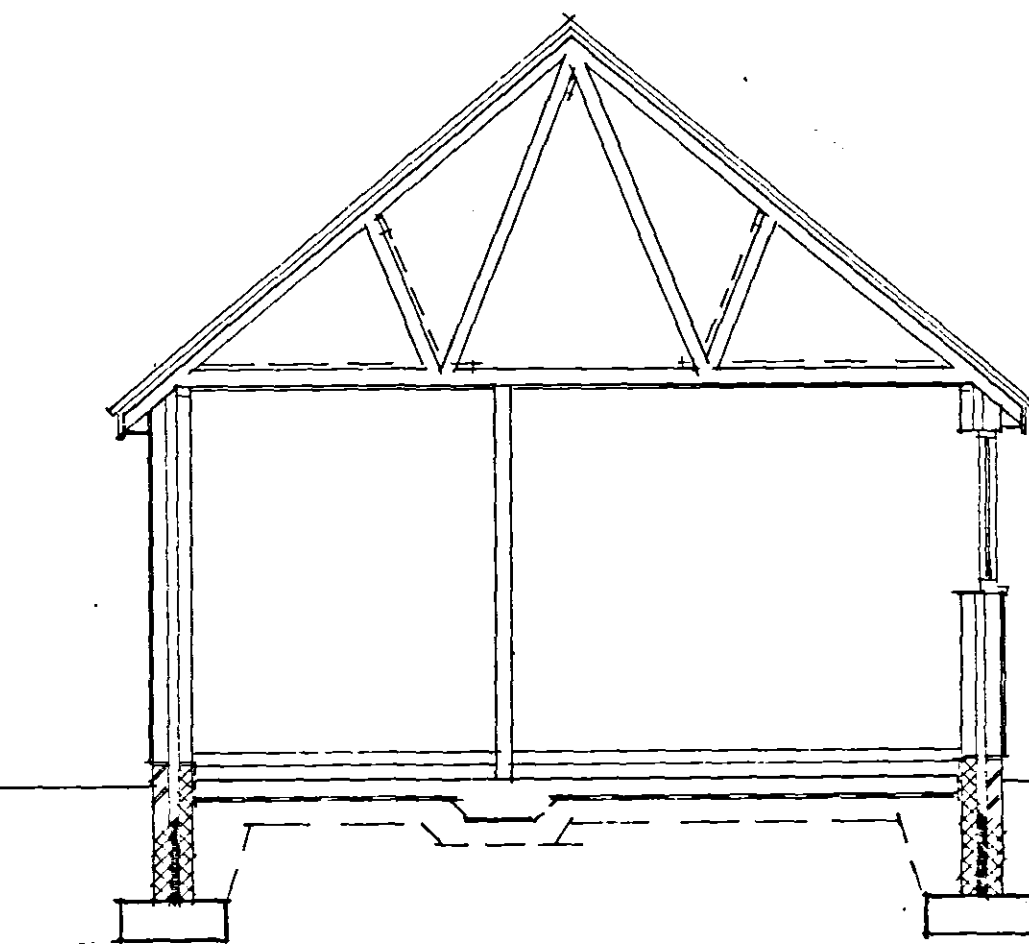


n west

n east



s east



section

FOUNDATIONS

Foundations to be ST4 grade concrete
For 285mm walls foundations to be 700 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.
Where 100mm internal walls are constructed off the floor slab the slab is to be thickened to 230mm for a min. width of 450mm
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 285mm o/a constructed as follows :-

100mm insulation blocks (3 course Eng brick below dpc level)
85 Crown Dritherm cavity wall insulation
100mm loadbearing insulation blocks i.e. Tarmac
Toplite standard/ Therma-lite shield, k = 0.15

All to be tied together using stainless steel wall ties positioned at distance not exceeding 900mm horizontally, 450mm vertically and staggered. To be at every block course vertically at all returns and reveals.

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

External render finish to be min. 12mm thickness render with proprietary waterproof additive with all necessary expanded metal plaster stops and finished with Tyrolean render applied in strict accordance with manufacturers instructions. Render to terminate 150mm above ground level in a bell mouth drip.
Render to conform to BS5262 : 1976

Internal Walls

To be 100mm blockwork constructed off a dpc off the floor slab

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.

LINTELS

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

Lintels over internal openings to be Catnic CN102 lintels unless specified otherwise.

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 UPVC, or similar and approved, double glazed using glass having a soft low E coating with an emissivity value of 0.05 with min. 12mm 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.

WINDOW/DOOR & LINTEL SCHEDULE

Location	Window/door ref.	Lintel ref.	& length
1	1200 x 1050	CG70/100	2100
2	1200 x 1050	.	1200
3	900 x 2100	.	1200
4	600 x 1050	.	400
5	600 x 1050	.	900

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 than 1/10° of the floor area.

The kitchen is to be mechanically ventilated direct to the external air. The capacity of the extractor is to be 60 litres/sec or 30 litres/sec if in a cooker hood.

The shower room is to be mechanically ventilated direct to the external air. The capacity of the extractor is to be 15 litres/sec.

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.

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

A room sealed gas fired central heating boiler (having a min. SEDBUK rating of 85%) is to be installed where indicated complete with fan assisted flue and combustion air vent, the area of which is to comply with the manufacturers recommendations. The flue is to be guarded externally with a stainless steel guard.

Separate timing controls (space heating and hot water) are to be provided to control the operating periods of the boiler, with the exception of combi boilers, and should only fire the boiler when space heating or the hot water cylinder thermostat calls for heat.

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.

The hot water system is to be vented.

A 3 kW immersion heater is to be fitted to a hot water cylinder insulated with 35mm thick factory applied coating of PU foam insulation plus an additional 50mm thick insulating jacket. The hot water cylinder is to be fitted with a thermostat and time switch.

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.

LIQUID FUEL STORAGE

The oil storage tank is to be of the integrally banded type and is to be placed on a hard standing, either a concrete base or paving slabs of at least 42mm in thickness, which extends beyond the tank by at least 300mm.

The tank is to be located a min. 1800mm from any part of the building and a min. 800mm from any boundary.

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.

Soul

Supply and install proprietary upvc inspection chambers on 100mm pea gravel bed in strict accordance with manufacturers instructions. Inspection chambers to conform to the following sizes :-

Depth	Internal diam	Cover diam
6m or less	190mm	190mm
1.0m or less	450 mm	450mm

Excavate for and lay in where indicated 100mm diam. flexible jointed upvc drains on 100mm pea gravel bed at a gradient of 1 : 70.

Where 100mm diam. drains pass through walls they are to be protected by the use of a lintel over. Both sides the wall to be masked with rigid sheet material with 50mm clearance of the pipe and the void filled with compressible material to prevent entry of gas.

Where flexible pipes are not under a road and have less than 600mm cover they are to have concrete paving slabs with a compressible filler laid as bridging above the pipes for protection and are to have a min. 75mm granular material between the top of the pipe and the underside of the compressible filler.

Install where indicated trapped (roddable) gullies - waste pipes to discharge below grating level and above water level.

Install 40mm diam. pvc waste to sinks and showers, 32mm diam. pvc waste to hand basins all with 75mm deep traps. Unless specified otherwise on plan.
All waste pipes to have rodding access at each change of direction and be readily accessible throughout their length.

Above ground drainage to comply with BS5272 : 1978
Below ground drainage to comply with BS8301 : 1985

All drainage items are to be installed in strict accordance with the manufacturers instructions.

ROOF CONSTRUCTION

Tiles

The roof is to be covered with interlocking concrete roof tiles fixed in strict accordance with manufacturers instructions.

Battens

Approved quality tanalised s/w battens, 38 x 25mm, are to be laid at a gauge suitable for the tiles and fixed with 90 x 3.35mm wire nails. Battens should be at least 1.2m in length and should be of sufficient length to be supported at each end and intermediately by at least three rafters, trusses or walls. Butt joints over intermediate supports should be staggered and the ends must be sawn.

Underlay

Approved breathable membrane, ie Tyvak or similar, is to be laid over the rafters lapped 150mm at the joints and secured with clout nails. The underlay should extend over the fascia board and into the eaves gutter. In order to prevent water traps behind the fascia it is recommended that a strip of 6mm marine plywood is provided to support the underlay. The ply is to be laid over the rafters and under the roofing felt positioned as close as possible to the last lining batten and secured to the fascia.

Eaves

Eaves are to be formed with standard size tiles and purpose made eave fillers must be nailed to the fascia board. Eave tiles must be laid at the same pitch as the main body of tiling and should overhang the fascia by an amount sufficient to ensure that the water discharges into the centre of the gutter.

Verges

Verges are to be formed with 150mm wide asbestos cement strip onto which is bedded the tiles which form the verge projecting approx. 50mm over bargeboards or gable brickwork.

Ridge

The ridge is to be covered with segmental ridge tiles of the same colour as the main body of tiling, unless specified otherwise, and secured using a proprietary ventilated dry ridge system having ventilation equivalent to a continuous 6mm gap.

Abutments

The tiling is to be cut closely at abutments and weathered by Code 4 lead flashing dressed down over the tiles and up the abutment a min. 150mm

Mortar

All bedding mortar is to consist of 3 parts sharp sand to 1 part Portland cement and should be struck off to give a smooth face and pointed in one operation.

Trusses

Gangnail trusses, pitch to match extg, at 600mm centres to be designed, fixed and braced in accordance with BS5268 : pt3 : 1985 and secured to wall plate with proprietary stainless steel clips.

Manufacturers details and calculations in respect of prefabricated trusses, include compound roof trusses, are to be submitted to the Local Authority Building Control Dept. for approval at least 28 days prior to fixing on site.

Truss positions and bracing shown is indicative only and is to be confirmed/superseded by truss manufacturer.

All bracing to be 100 x 25mm.

Insulation

To be Rockwool Rollbatts (k = 0.037 W/mK), 150mm laid between joists with a further layer of 150mm laid at right angles over the top.

Ceilings

12.7mm foil backed plasterboard, fixed in accordance with manuf. instructions with all necessary nogginns etc., and skim finish in accord with clients instructions.

Rainwater Goods

Supply and fix 115mm PVC gutters to fascia with all necessary brackets, stop ends, outlets etc.

Supply and fix 64mm PVC downpipes securely clipped to walls at 1800mm cts with all necessary offsets, swannecks, adaptors etc. and taken into 100mm diam. upturned bend at base.

STRAPPING

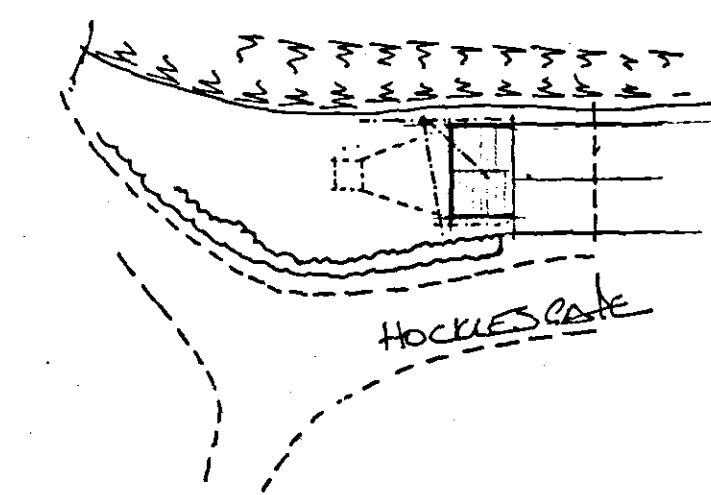
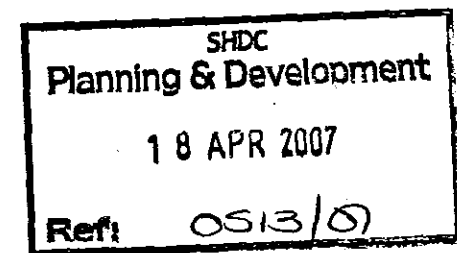
Where rafters, floor joist and ceiling ties run parallel to walls they are to be strapped at 1800mm cts. Straps to be fixed to a min. 3No. rafters etc., having nogged between beforehand, and hooked into the cavity a min. 150mm. Similar straps to be used at 1800mm cts to hold down the wall plate.

Straps to be 30 x 6mm galv. m's.

NOTICES

The purchaser is to be provided with a folder containing the following :-

Planning permission approval
Building Regulation approval
Commissioning details and instructions on boiler
Instructions of burglar alarm system, fire alarm system, electrical appliances installed



Rev A - 14/04/07 Drawn & Supplied.

EAST MIDLANDS
DESIGN ASSOC.

Architectural Consultants

Willow Lodge
Horneshoe Road
Spalding
Lincs
PE11 3JA

Tel/fax :- 01775 767968
E-mail :- willowlodge@zoom.co.uk
Mobile phone :- 07710 815044

Client

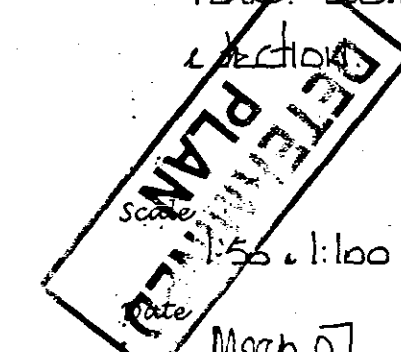
DE R OULTON

Project

KITCHEN & SHOWER ROOM EXTENSION
AT 47 HOCKES COTE
FLEET
PE11 8

Drawing

Plans, Elevations



Drawn

March 07

Check No.

Rev.

07/05/01

A

existing
ground floor plan

proposed