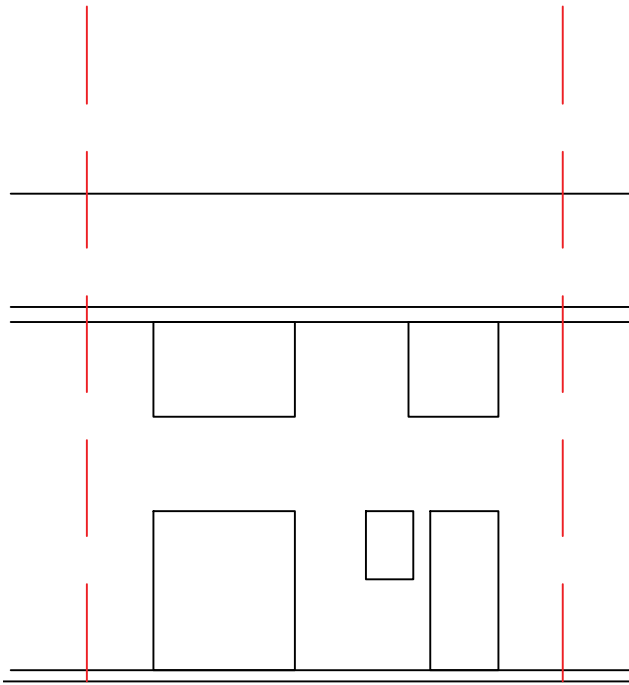
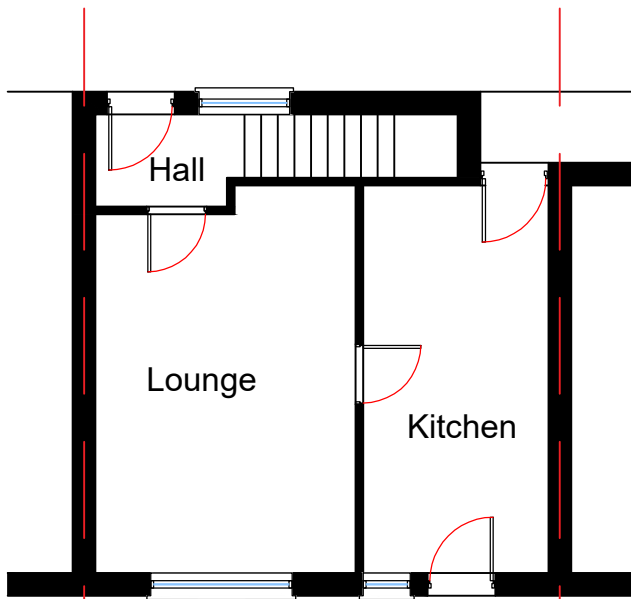


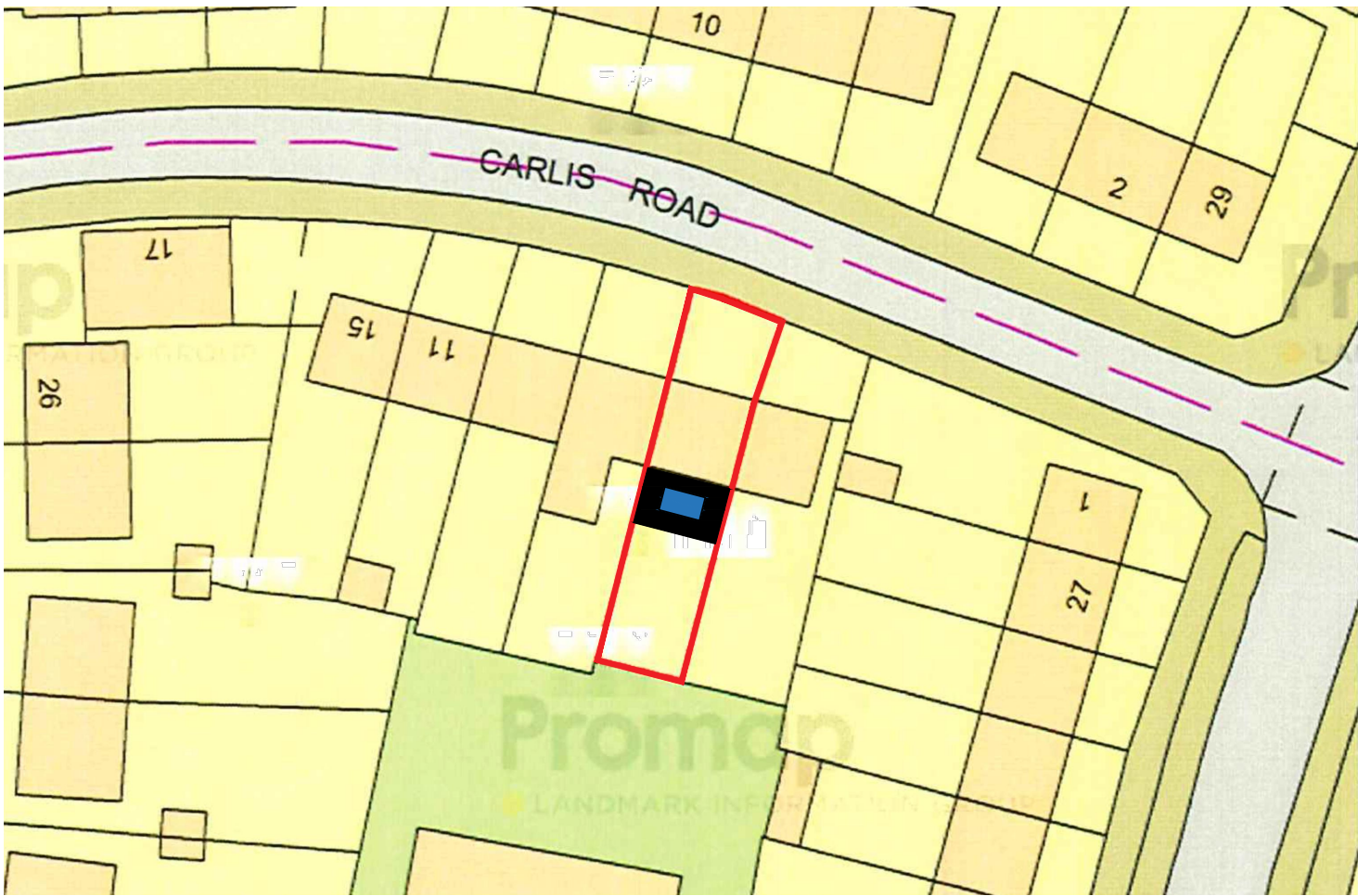
5 Carlis Road, Kirkby L32 6QS



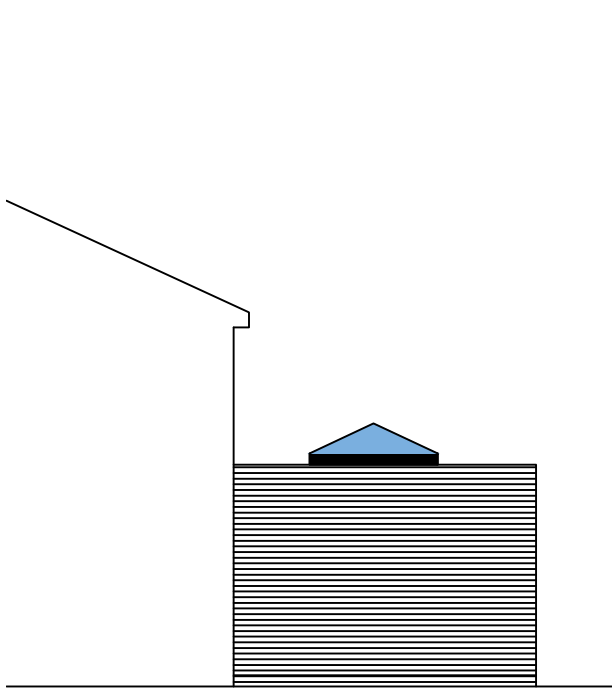
Existing Rear Elevation



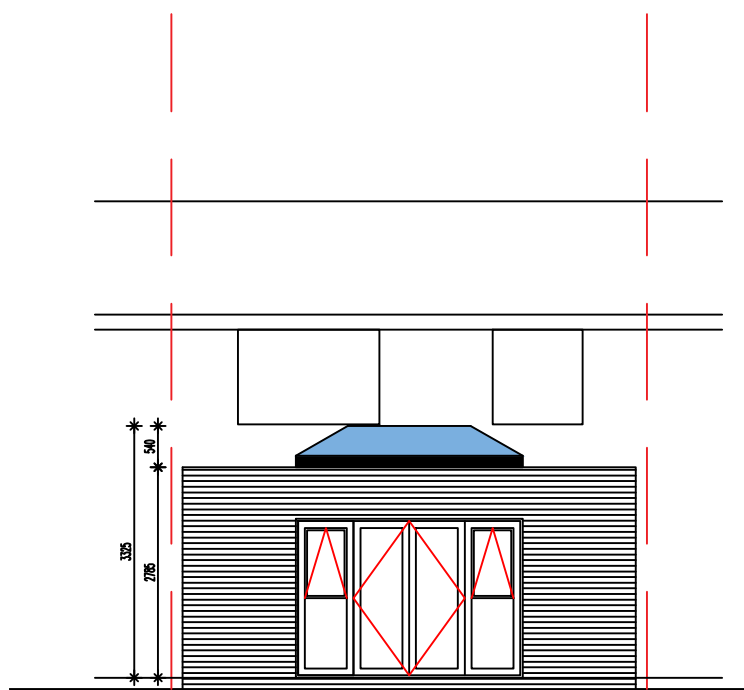
Existing Ground Floor Plan



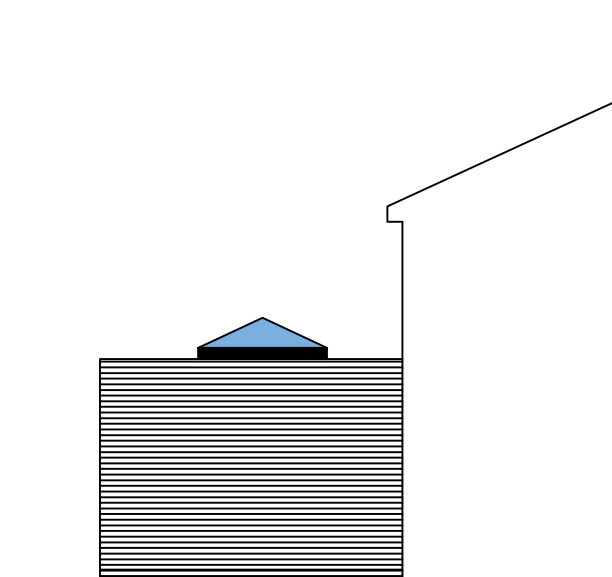
1:500 Site Plan



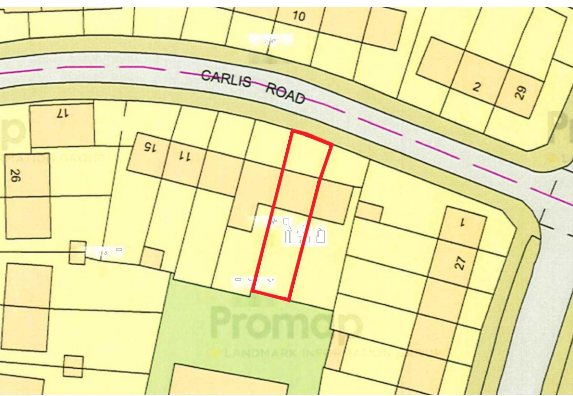
Proposed Side Elevation



Proposed Rear Elevation



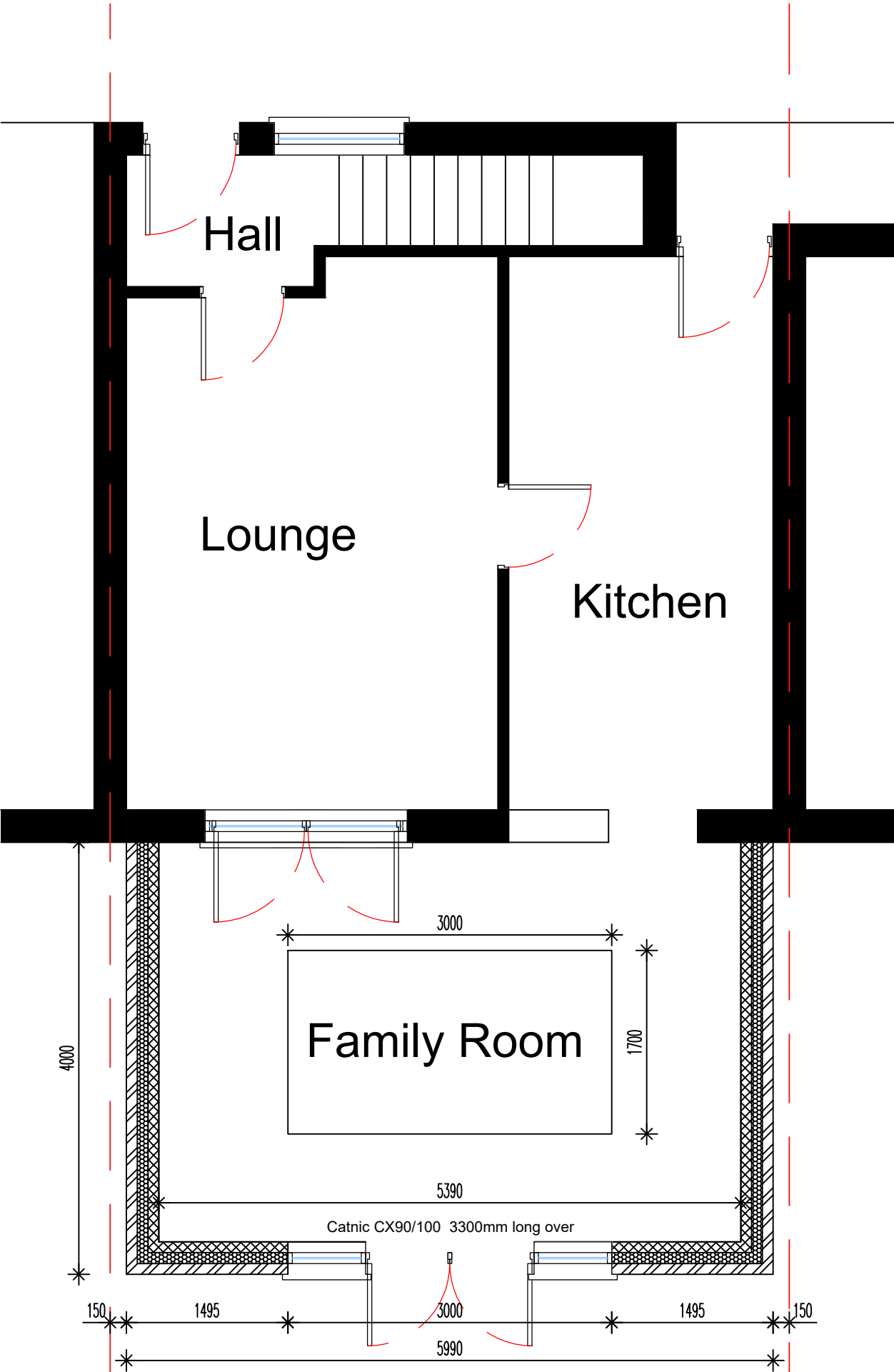
Proposed Side Elevation



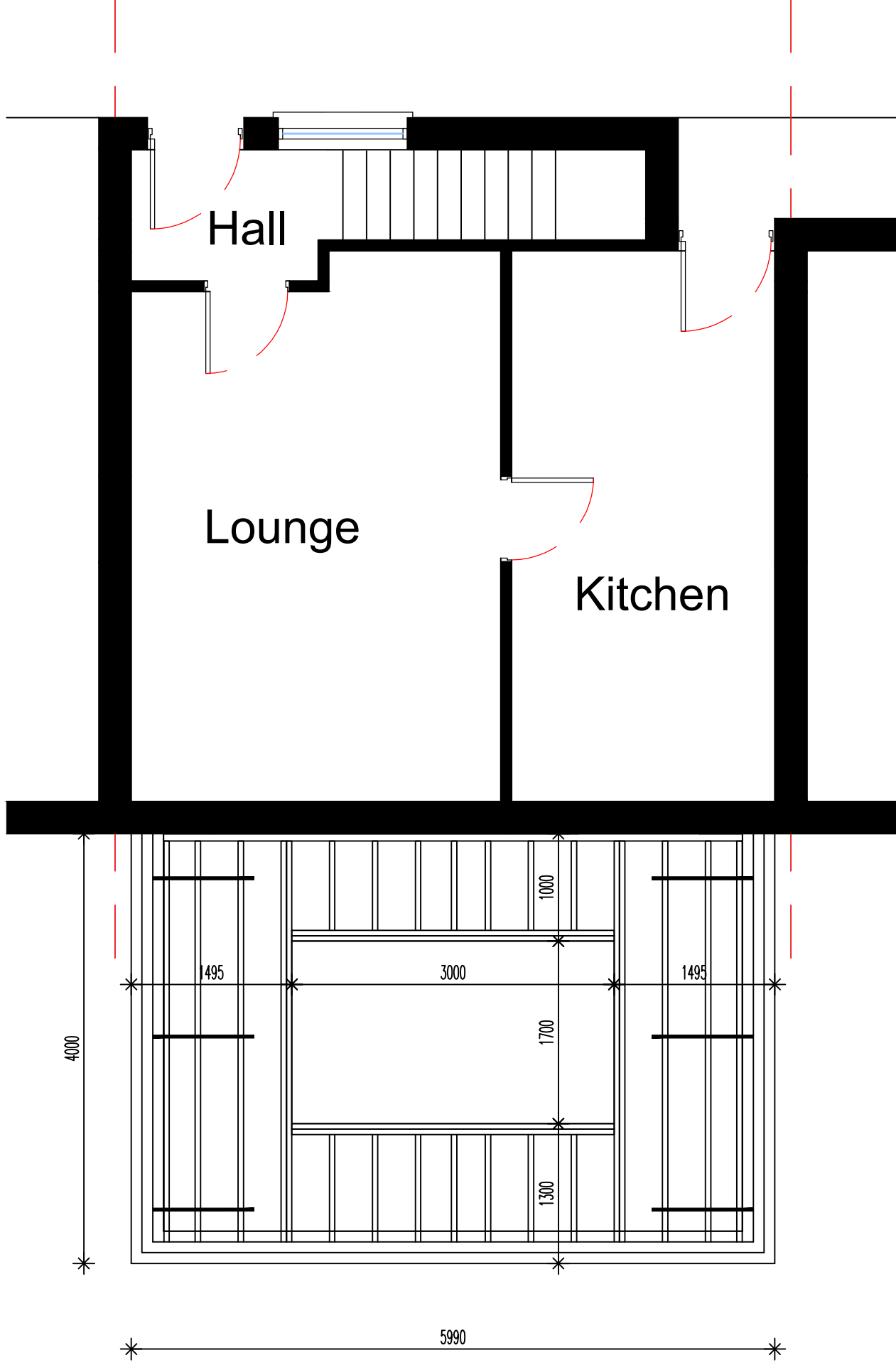
1:1250 Location Plan



1:100 Scale



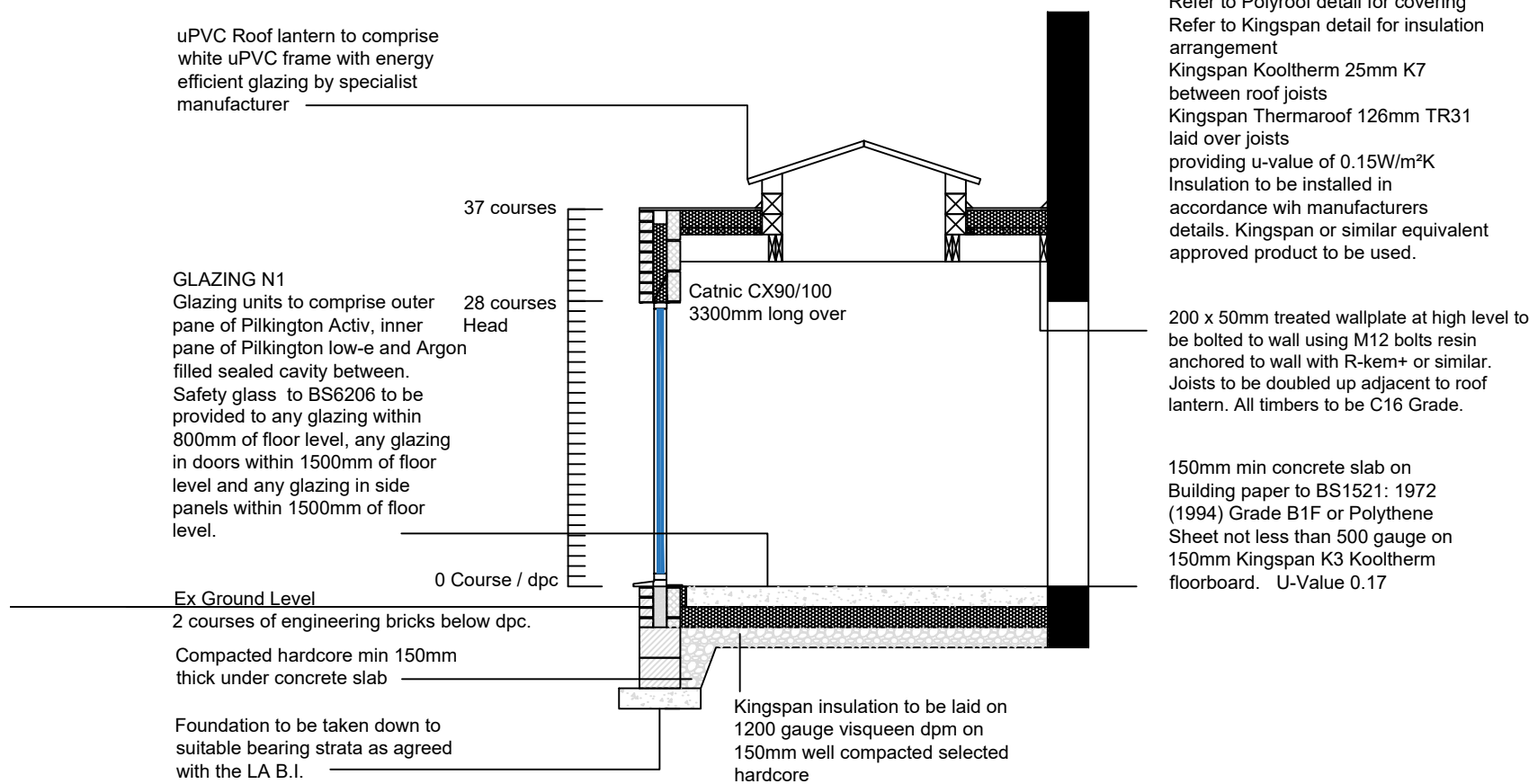
Proposed Ground Floor Plan



Roof Plan



1:50 Scale



Typical Section

General
All work to comply with the Town & Country Planning Act 1990, the latest Approved Documents of the Building Regulations, Codes of Practice, British & European Standards, The Party Wall Act 1996, neighbouring consent to be sort for work on, at or within 3m of a party wall or fence with 2 months notice required.

Foundations
Foundation design and depth is subject to ground conditions. It is recommended that a trial hole is dug to assess existing conditions prior to quoting or work commencing.

A standard strip foundation is suitable for depths of between 450mm to 900mm to the underside of the foundation on good load bearing strata.

For foundations between 900mm to 2500mm consider trench fill foundation design.
If deeper foundations are required seek the advice of a structural engineer for a possible pile design.

Foundations to be 600mm wide by 150mm minimum thickness.

Foundation depth to be agreed on site with Building Control Officer.

Allowance should be made for building within influence of tree roots, advice to be sought from structural engineer to avoid clay heave.

Consideration to be given to stepped foundations on sloping sites.

Drainage
New plastic drains to be laid to fall at 1:40 on 150mm pea gravel bed and connect to existing system. Drains to have min 150mm cover.

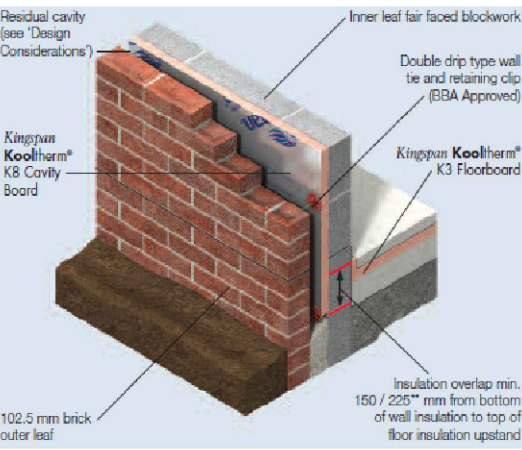
Any existing drains passing under proposed building to be exposed and inspected for integrity. Any damaged or poor quality pipework to be replaced.

Existing (and replaced) drains passing under proposed building to be encased in 150mm concrete with joints left flexible.

Where the drains pass through sub walls, concrete lintels to be provided over.

All drainage to comply with AD H

Mechanical Ventilation Summary		
Kitchen	60 ltrs/sec	
Utility	30 ltrs/sec	
Bathroom & Ensuite	15 ltrs/sec	
WC	6 ltrs/sec	
Minimum U-Value Summary		
Floors	0.22W/m2K	New Build 0.11W/m2K
Walls	0.21W/m2K	0.16W/m2K
Roof Ceiling level insulation	0.15W/m2K	0.11W/m2K
Roof Rafter level insulation	0.15W/m2K	0.11W/m2K
Flat Roof insulation	0.18W/m2K	0.11W/m2K
Windows	0.14W/m2K	0.11W/m2K
Doors	0.14W/m2K	0.11W/m2K



Wall Insulation Detail

Walls
a) Sub Walls
Brick cavity wall construction, with 100mm cavity filled with lean mix concrete to within 225mm of ground level.

DPC to be provided 150mm above ground level, with double damp proof course incorporated where level threshold is provided.

Use 3 courses of engineering or facing bricks (FL quality) below DPC.

Any existing drains passing through sub walls to have concrete lintels provided over.

Consider use of trench blockwork for deeper foundations in lieu of cavity brickwork.

Walls to be finished internally with 12.5mm plasterboard and skim on plaster dabs.

Internal Walls
Internal load bearing walls to be 100mm solid blockwork.

Non load bearing partition walls to be 75 x 50mm studwork finished with 12.5mm plasterboard and skim finish.

Ground Floor
To comprise 150mm in-situ concrete on separation layer on 150mm Kingspan Kooltherm K3 insulation providing a U-Value of 0.17W/m2K with 25mm perimeter insulation around slab edges on 1200g DPM on 150mm well compacted selected clean hardcore.

All vegetable matter to be removed from below slab area

Flat Roof
Roof joists to be formed from 200 x 50mm C16 timbers @ 400mm max ctrs and seated on 100 x 100 saw timber wallplate strapped to wall.
Refer to Kingspan detail for insulation arrangement
Kingspan Kooltherm 25mm K7 between roof joists
Kingspan Thermofoam 126mm TR31 laid over joists
providing u-value of 0.15W/m2K
Insulation to be installed in accordance with manufacturers details.
Kingspan or similar equivalent approved product to be used.
Fascias to be white uPVC.

Rainwater Goods
Rainwater goods to be 100mm half round guttering leading to 68mm dia rainwater downpipes discharging into back inlet gulleys.

Windows
Windows to be double glazed white uPVC.

Trickle vents to be provided to window heads equal to min 5000mm2 for habitable rooms and 2500mm2 for wet rooms.

Any glazed areas below 800mm above floor level to be laminated or toughened glass.

Glazing to be Pilkington K Glass with min 20mm sealed double glazed units with U-value equal to min 1.4W/m2K

Doors
External doors to be white uPVC, style to match elevation unless alternative specification provided by client with U-value equal to min 1.4W/m2K

Internal doors to be good quality doors to clients specification.

Electrics
All electrical work to be carried out to AD Part P & BS7671.

Position and number of sockets and light fittings to be agreed with client prior to tender / quotation.

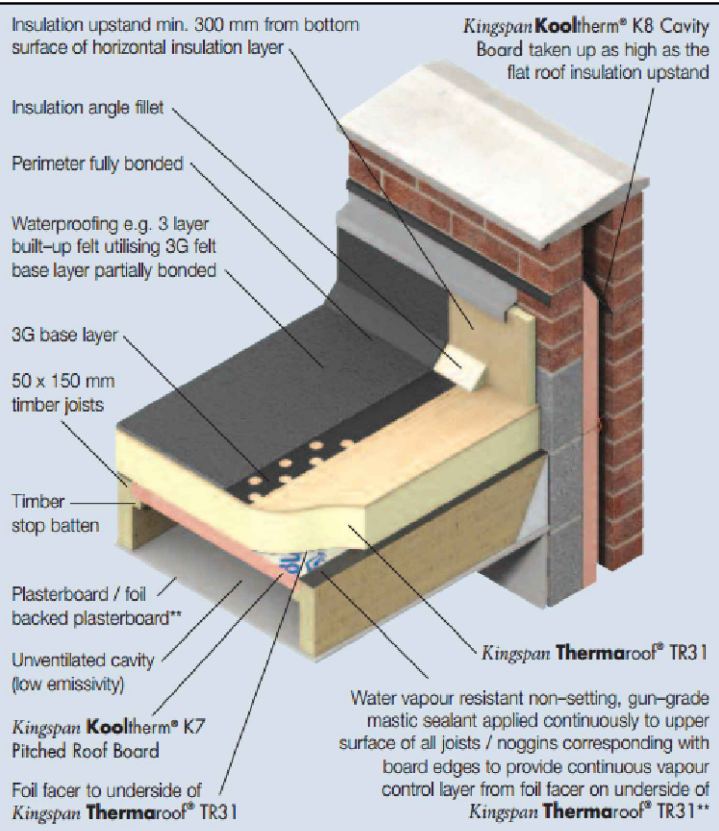
Low energy light fittings to be provided.

Sockets and switches to be positioned in accordance with AD Part M. Contractor to be Part P certified.

Electrician to provide full details of fire alarm system

Structural Steelwork
All structural steelwork to be designed by structural engineer. Unless otherwise specified, steel beams to be sealed on designed concrete padstones.

All structural steel beams to be encased with two layers of 12.5mm plasterboard providing fire protection.



Flat Roof Insulation Detail

Rev	Description	Drawn	Date
1	6 Carlis Road, Kirkby Knowsley L32 6QS	N.M.Ward	Sept 21

Project Title
6 Carlis Road, Kirkby Knowsley L32 6QS

Drawing Title
Proposed Single Storey Rear Extension

Scale
1:100 1:50

Job No.
6CRK/WD01

Original Sheet Size A1

Drawn By
N.M.Ward

Checked By
Date

Authorised By
Date

Revision
6CRK/WD01