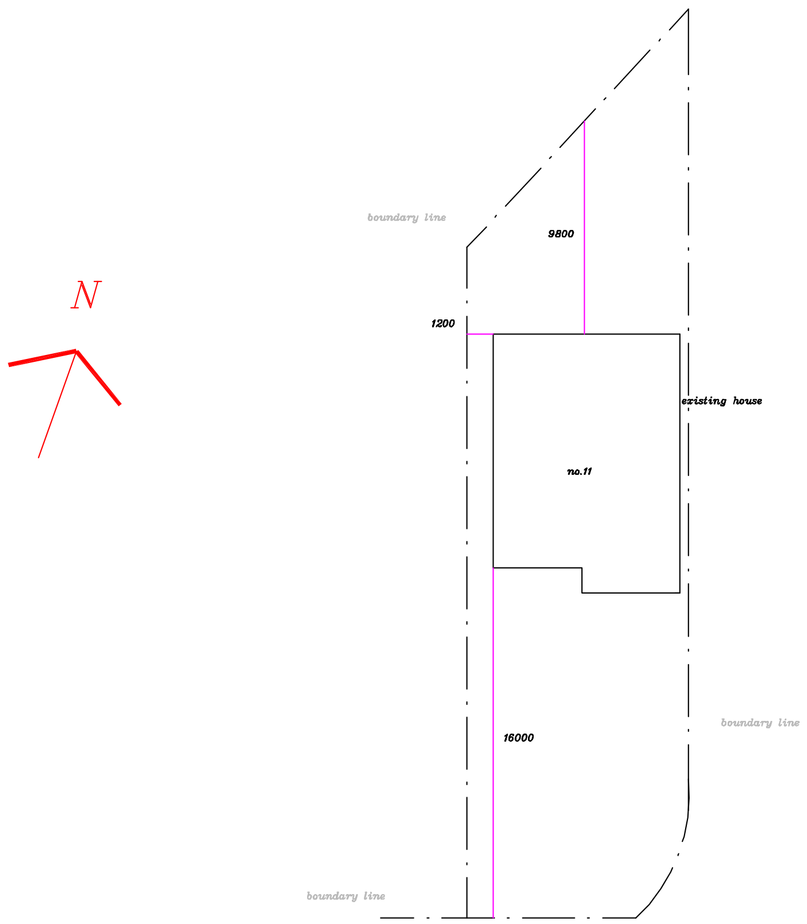


0m 5m 10m

EXISTING BLOCK PLAN 1:200

New lintel to be encased 13mm thick plasterboard with lapped joints and plastered finish to provide fire protection.

New opening in existing load bearing wall to be formed and new Catnic CX70/100 lintel or similar approved to be incorporated as shown. Lintel to bear on 3 courses of class "A" engineering brickwork internally and brickwork externally.
N.B.(see note on cavity width on calculations)

Builder to cart away all building debris, make good to openings and all works with coats of finishing plaster, reinstate and generally leave site tidy.

LINTEL CALCULATION

Floor span = 5300mm
Lintel to span opening of 1800mm

Floor load: $\frac{5.35 \times 2 \times 1.8}{2} = 9.63kN$

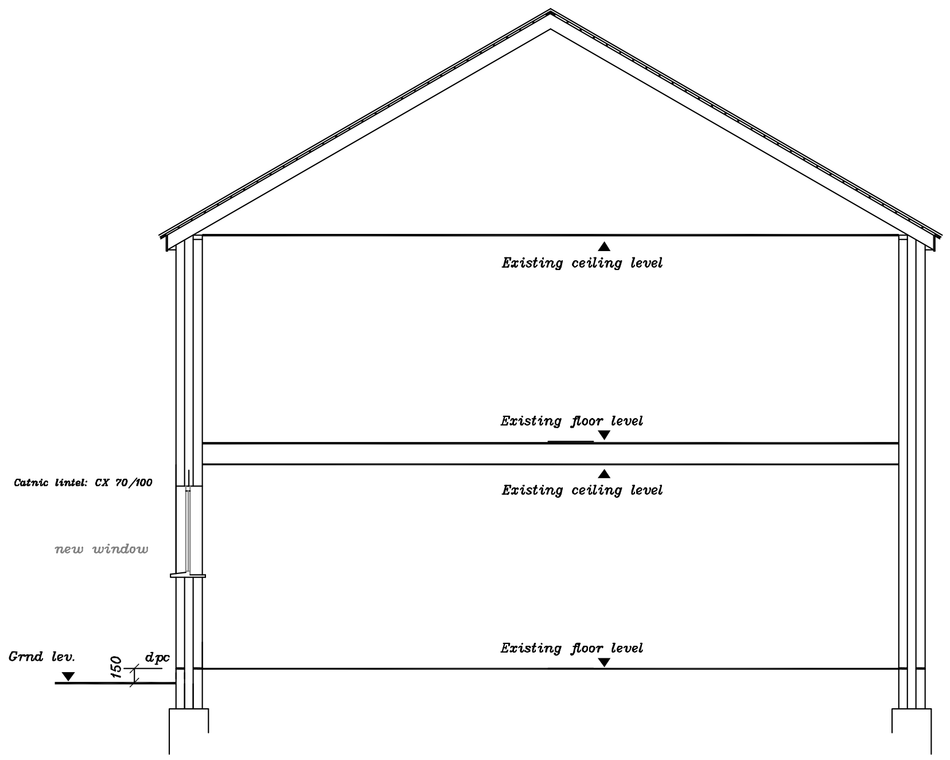
Cavity external wall: $3.9 \times 1.8 \times 3 = 21.06kn$

Pitched Roof: $\frac{5.35 \times 2 \times 1.8}{2} = 9.63kN$

Partition Walls 10m X 2.4m X .3= 7.2kN

Total: = 47.52kN

Therefore use Catnic CX70/100 SWL 60kN
(dependent of cavity width or use CX50/100 or CX90/100)



SECTION A – A

Loads kN/m2

	DL	IL	Total
215 solid brick wall:			
Brick 215mm	4.60		
Plaster both sides	0.20		4.80 kN/m2
Suspended Timber Floor:			
Boards & Joists	0.35		
Ceiling.	0.15	1.50	2.00 kN/m2
Flat roof:			
Felt & chippings	0.20		
Boards & Joists.	0.35		
Ceiling & insulation	0.20	0.75	1.50 kN/m2
Pitched roof:			
Tiles	0.50		
Battens & felt .	0.10		
Rafters	0.15	0.75	
Ceiling, joists, insulation.	0.25	0.25	2.00 kN/m2
Internal brick partition wall:			
Brick 102mm	2.30		
Plaster both sides	0.20		2.50 kN/m2
External Cavity wall:			
Brick 102mm.	2.30		
Block 100mm.	1.50		
Plaster 1 sides	0.10		3.90 kN/m2

Ventilation to habitable rooms

Ventilation to all habitable rooms where vented to the external air to be a mininum of 1/20 the floor area of the particular room.
Trickle ventilation minimum of 8000 sq mm to all habitable rooms.

D.P.C
Vertical D.P.C shall be provided to all window and door reveals in the external cavity walls.

Windows/doors
All windows,external doors, patio doors etc to be double-glazed with 15mm gap between glass, glass to be K glass. Minimum U value for new doors is 1.4 w/m K

Lintels
All lintels to be catnic or similar approved with min end bearing of 150mm unless instructed otherwise. Cavity trays to be provided where needed and where not incorporated within the lintels design. The types are shown on the general plan.
lintels in the external walls to be insulated.

C

KEY

Smoke detectors (SD)
Existing walls
Walls to be demolished
New Cavity wall
New block walls
New Stud walls

NOTES

This drawing is to be read in conjunction with the construction notes provided. All dimensions to be checked on site by builder and not scaled from this drawing. This drawing is for submission to L.A. and builder to liaise direct with Building control officer on site following submission of a building notice. This is an architectural drawing only, structural details and calculations are to be obtained separately from a structural engineer.

REVISIONS

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Client: Annette Woods

Location: 11 Manor Gardens
Buckden
Cambs
PE19 5TN

Project: Proposed new window

Title: Existing/Proposal drawing.

Scale: 1:50, 1:200 at A1

Date: Feb 2025

Drg.No. AW/AJD/02