

**Scope of Works**

**General.**  
Construction of a two storey rear extension.  
Creating a ground floor Sitting Room + 2 additional first floor bedrooms.

**Notes.**

**General.**  
These plans and details have been prepared for the purpose of providing information to the local authority to assist them in determining approval or rejection of planning / building regulations.  
These notes and details indicated on these drawing drawings are to be checked and verified by the contractor at the time of pricing and prior to commencement, the builder shall satisfy himself that all details and dimensions are correct.  
Any discrepancies shall be identified at the time of tendering and the client notified in writing of such changes required.  
All dimensions to be taken to the nearest brick size.  
His price shall be deemed to include for:  
Any additional calculations as required by building control and as a result any additional building works that may be required.  
Satisfying all current relevant codes of practices and British Standards shown or omitted from these drawings.  
When appropriate it is the owners responsibility to serve notice on the adjoining / adjacent neighbours for the proposed works under the Party Wall act 1996. The explanatory booklet can be obtained free of charge from ODPM free literature PO Box 236 West Yorkshire LS23 7NB. Tel 0870 122 6236

**Water supply**

Hot water taps to be installed on the left.

**Electrical Installations.**

All installations to be subject to certification under the "competent persons scheme"  
Qualified to a min of Part P  
A certificate shall be supplied on completion of all electrical works  
Lighting - 75% to be low energy.  
Light switches to be fixed 1200 above ffl, Power sockets to be fixed at 450mm above ffl.

**Means of escape.**

All new first floor windows to have a clear opening of 750 mm x 450 mm and max 1100 from floor height.  
1 No self contained operated smoke alarm to BS 5446 Part 1 to be installed on each storey smoke detectors interlinked and located as indicated on the drawing.  
All detectors to be a min of 300 mm from any wall.  
Interconnected & wired to a separated fused circuit. Battery back up required.

**Heating.**

The existing Boiler to be checked for suitability for extension.  
All internal gas works to be designed and installed by a competent corgi registered contractor.  
All hot water pipes shall be insulated with foam equivalent to the outside dia of the pipe.  
Radiators to have thermostatic valves.

**Roof design.(Trusses.)**

The roof shall be of timber construction all as per supplier's calculations. Calculations to be supplied to building control for approval a min of 28 days prior to commencement on site.  
Trusses to be at 600 mm c/c  
Fixing of roof timbers to vertical walls to 6 x 2 timber wall plate fixed to wall by m12 at 600 c/c  
or to horizontal wall plate  
Valleys or connection of roof to walls to have 5 lb lead flashing.  
Tiles, appearance to match existing, on timber tile battens of 40 mm x 19 mm c/c to suit tile type on sarkin felt.  
Roof shall ensure a continued air flow. Soffits shall be fitted with vents or a 25 mm gap with bird mesh.  
Ridge vents shall be fitted where necessary and as directed by the Building Inspector.  
Roof to be suitably wind braced to appendix A of BS 5268 PT 3.  
100 x 65 sw wall plates secured to brickwork with galv steel straps @ 1800 c/c  
Roof insulation.  
Above ceiling joists/ roof voids. - A min of 300 mm rockwool to be provided within the roof space. 150 between joists and 150 mm over joists at 90 degree.  
Min 50 mm min air flow required between insulation and roof covering.

**Lateral Restraint to floors / gable roof**

Galvanised mild steel strap 38 x 5 @ 2m c/c to joists and rafters spanning 3 joists with solid noggins at 450 c/c down cavity.

**Roof Ventilation.**

Ridge ventilation to be equivalent to a continuous gap strip of 5 mm.  
Eaves to be equivalent to a continuous gap strip of 25mm.

**Plumbing and Drainage.**

Hepworth or similar 112mm UPVC gutters, brackets and fittings down pipe to be 75 mm dia.  
**Surface / Foul water drainage**  
All external drains to be 100mm Osma plastic pipe betw and surround in gravel to falls  
Foul - 1:80  
Surface water - 1:100  
All new surface water to be taken to a soakaway a min of 5m from any building  
All drainage and protection details to existing shall be agreed with the Building Inspector.  
All internal drainage to connect into new s & w pipe replacing the existing trapped shared gully. Additional shared trapped gully to be provided and connected into existing foul drain.

**All drains / potential connections to be investigated for suitability prior to commencement and any required changes to be discussed with Building Control.**

Pipe sizes-Basin 32mm up to 1.7m run. Sink bath / shower 40mm up to 3m run 50mm up to 4m run  
WC - 100 mm. Separate connections and 75 mm deep seal traps to 100 x 45 vvt terminating internally with non return valve.  
Head of foul drain runs to be vented naturally to external air.  
External stacks vented traditionally terminating 900 mm above any open light within 3 m with suitable cage. Shower trays to have access panels to trap. All joints push fitted & access panels provided at all changes in direction.  
All internal s&wp to be insulated with min 50mm rockwool.

**Doors / windows.**

All to be UPVC double glazed (min 16 mm gap between panes) glazed with Pilkington K glass with soft low "E" coating.  
Style and colour of all to match existing.  
All windows to have 1/20 th floor area as open light.  
Safety glass(stamped accordingly) to be provided to all critical areas. - Door and panels 1.5 m from ffl. Or windows within 800 mm from ffl.  
Trickle vents to be provided to all new windows 8000 mm2 min equivalent area

**Radon Barrier**

Where Radon Barrier is required visqueen to be 2000 g with all joints overlapped and gas taped and all penetrations thro to be sealed. This to continue thro the external leaf with tray dpc. On sag ended timber floor visqueen to be placed under oversite conc.

For category 1 land fill sites use gas membrane such as Monarflex or similar

**Timber Ground Floor**

38 x 150 (sc 3) softwood joists at 400 c/c with herringbone strutting at mid span. 19 mm T & G floor grade particle board (EN 312-5) screwed to joists or 19mm T&G floorboards (BS 1297) 150 mm fibre insulation to be provided between joists.

Joists to be built into walls or attached to joist hangers. Ends of joists where built in to be treated.  
Provide oversite concrete on 1200 g visqueen.  
Provide 150mm between conc and u.s. of joists.  
Airbricks required to all sides of extension at 900 c/c

**Timber First Floors.**

50 x 195 (sc 3) softwood joists at 400 c/c with herring bone strutting mid span and underdrain with fire lined board.19 mm T & G floor grade particleboard (EN 312-5) screwed to joists or 19 mm T & G floorboards (BS 1297) 195 mm fibre insulation to be provided to first floor joists.  
Joists to be built into walls or attached to joist hangers and screwed to joists.  
Joists to be doubled up under stud wall location.

**Foundations**

All concrete to be grade C35  
Foundations to be 600mm x 225 mm deep.  
Placed 1000 mm below fgl. Or as directed by the Building Inspector.  
Where foundations cross drainage services the foundations to be taken down below the 1.L. of the pipe. A concrete lintol to be placed over to bridge the pipe.  
Provide rocker pipes either side of the wall and a 50mm space between masonry and pipe with flexible seal.  
Any eccentric foundations to be 750 x 450 thk reinforced with 2 layers B783 mesh 50mm cover to all faces.  
It is assumed that the ground conditions facilitate the use of traditional strip foundations.  
The building Inspector to advise otherwise.

**U Values**

The builder shall ensure that the following values are achieved.  
Pitched roof insulation at ceiling level 0.16w/m2k  
Pitched roof insulation at rafter level 0.18w/m2k  
Flat roof with integral insulation 0.18w/m2k  
Walls 0.28w/m2k  
g.E 0.22(with Pa 09)  
Windows / doors 1.6w/m2k  
All roof and wall insulation to be continuous.

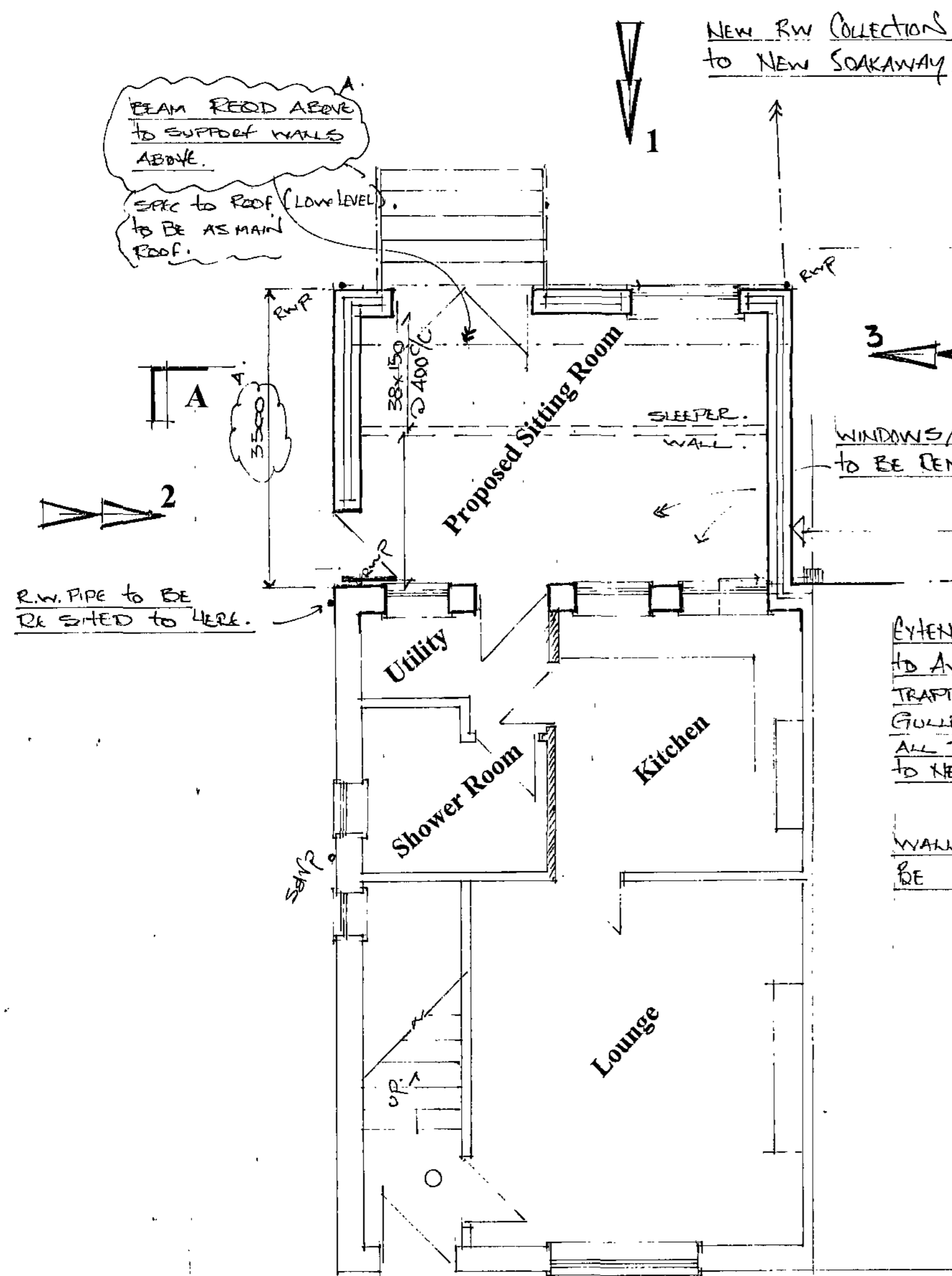
**Construction (Design and Management) Regulations 1994**

Applicable to all projects except work to a persons own house other than that carried out by the developer.  
The client shall be advised that all projects lasting for more than 30 days or include more than 4 people engaged on the construction on site at any one time shall be subject to the above regulation.  
The client shall take all reasonable steps to ensure that the appointed contractors have the competence and adequate resources sufficient to manage the construction work and comply with the above regulations.  
If the project is subject to the above regulation the client shall appoint a planning supervisor and ensure that notice is served on the health and safety executive at tender acceptance stage using form 10.

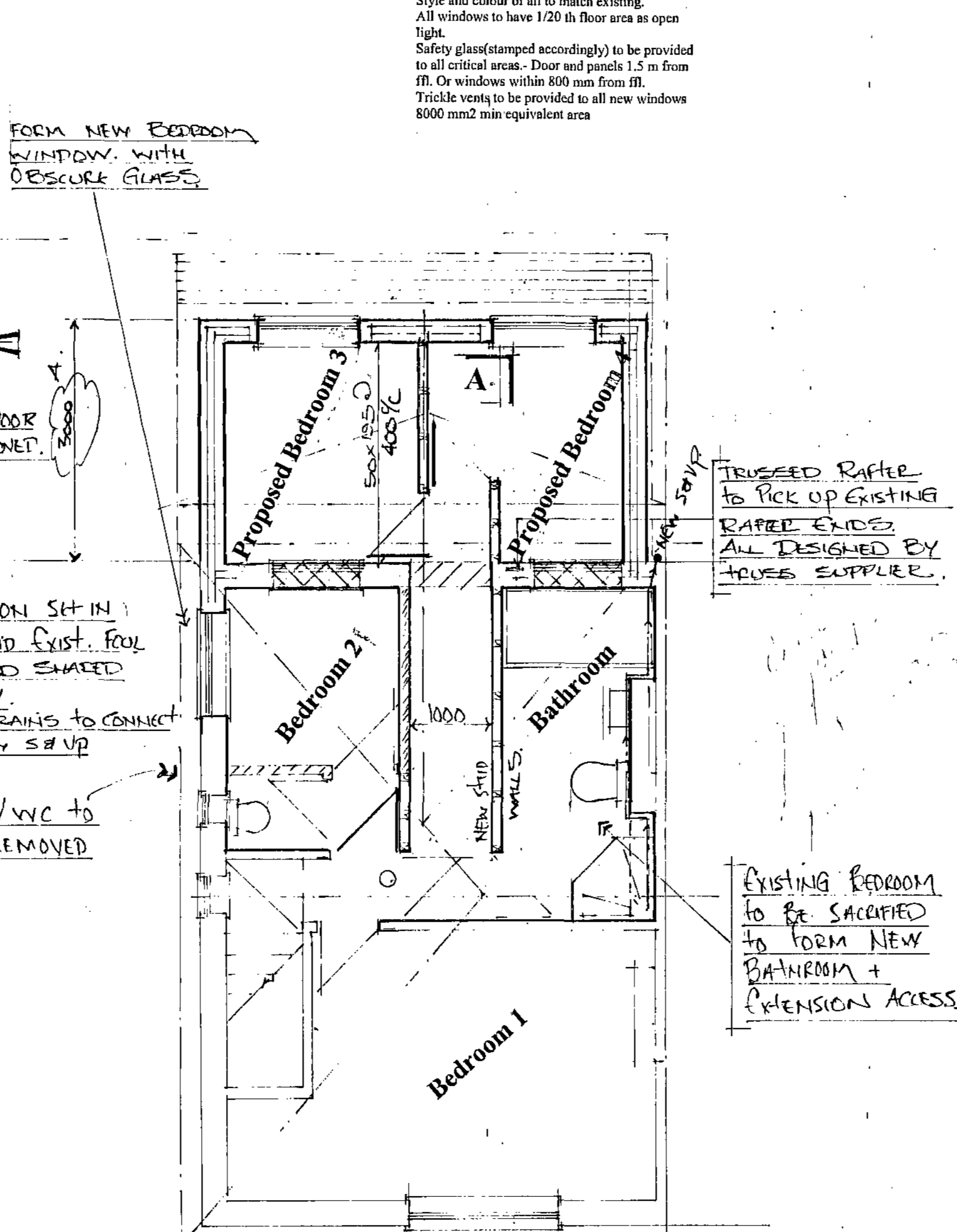
**DPC's**

To be provided to External walls 150 mm above fgl.  
All door and window jamb / heads Under lintols  
Above all air bricks

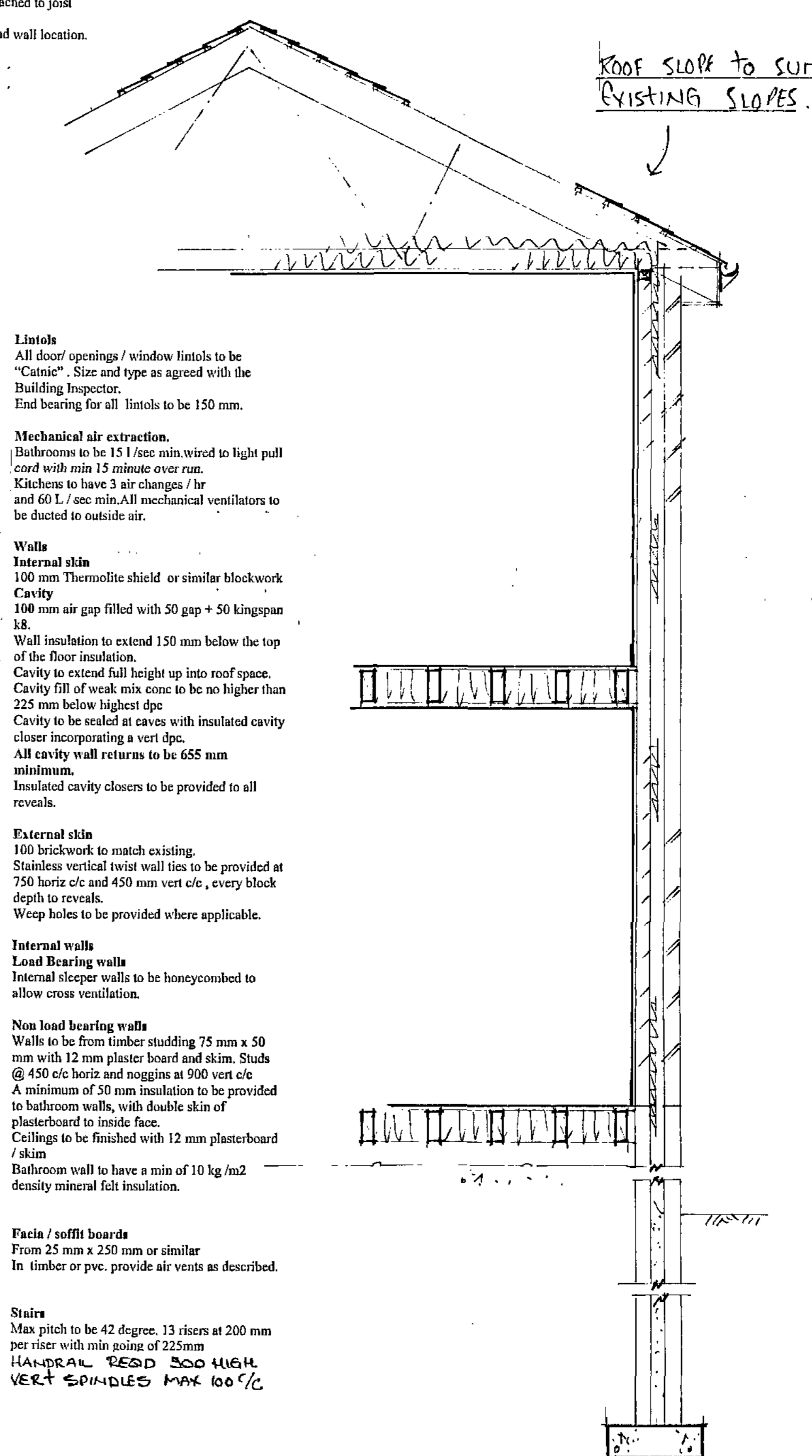
**NOTES:**  
All dimensions must be checked on site and not scaled from this drawing.



**Proposed Ground Floor Layout**



**Proposed First Floor Layout**



**Typical Section On A - A**

E	
D	
C	
B	
A	22.6.11 Site of CHN Amended
Date	Revisions
@ copyright	



**16 Hollowdene  
Gawber  
Barnsley  
S75 2NQ**

Client  
**John Lockwood**

Job Title  
**Proposed Two Storey  
Rear Extension**

Drawing Title  
**General Arrangement /  
Sections**

Scale  
**1 : 50 1 : 20**

Date **24.5.11** Drawn by **Steve Camps**

Drg. No. **JL/ 01** Rev. **A**