

Foundations:
600 x 600mm concrete trench fill taken down to firm bearing strata at min 900mm below ground level. Foundations to be taken down to invert of any drain within 1000mm of excavation.

Drainage:
All new drainage to be 100mm diameter Polypipe Underground or similar drainage system. Pipes laid to self cleansing fall on 150 bed pea shingle. New gullies to be roddable with connection to existing drain. Pipes passing through flashings to be bridged using pre-stressed concrete lintols. All new drainage passing under new extension to be encased in minimum 150mm concrete.

Ground Floor Construction:
18mm asphalt screed on 100mm concrete slab on visqueen 110mm Celotex XR4000 or equivalent floor insulation on 1200 gauge DPM lapped into DPC on 25mm sand blinding on consolidated hardcore. Provide 25mm ridged insulation to the edge of slab. Provide 100mm dia duct pipe through to air bricks with cavity trays over to vent any exg air bricks.

Heating:
Mode of heating to extension as yet unknown if a new boiler to be fitted this is to have a Class A SEDBUK energy efficiency rating. NB All plumbing work to be carried out by GAS SAFE registered installer Hot water & heating systems to comply with Domestic Heating Compliance guide.

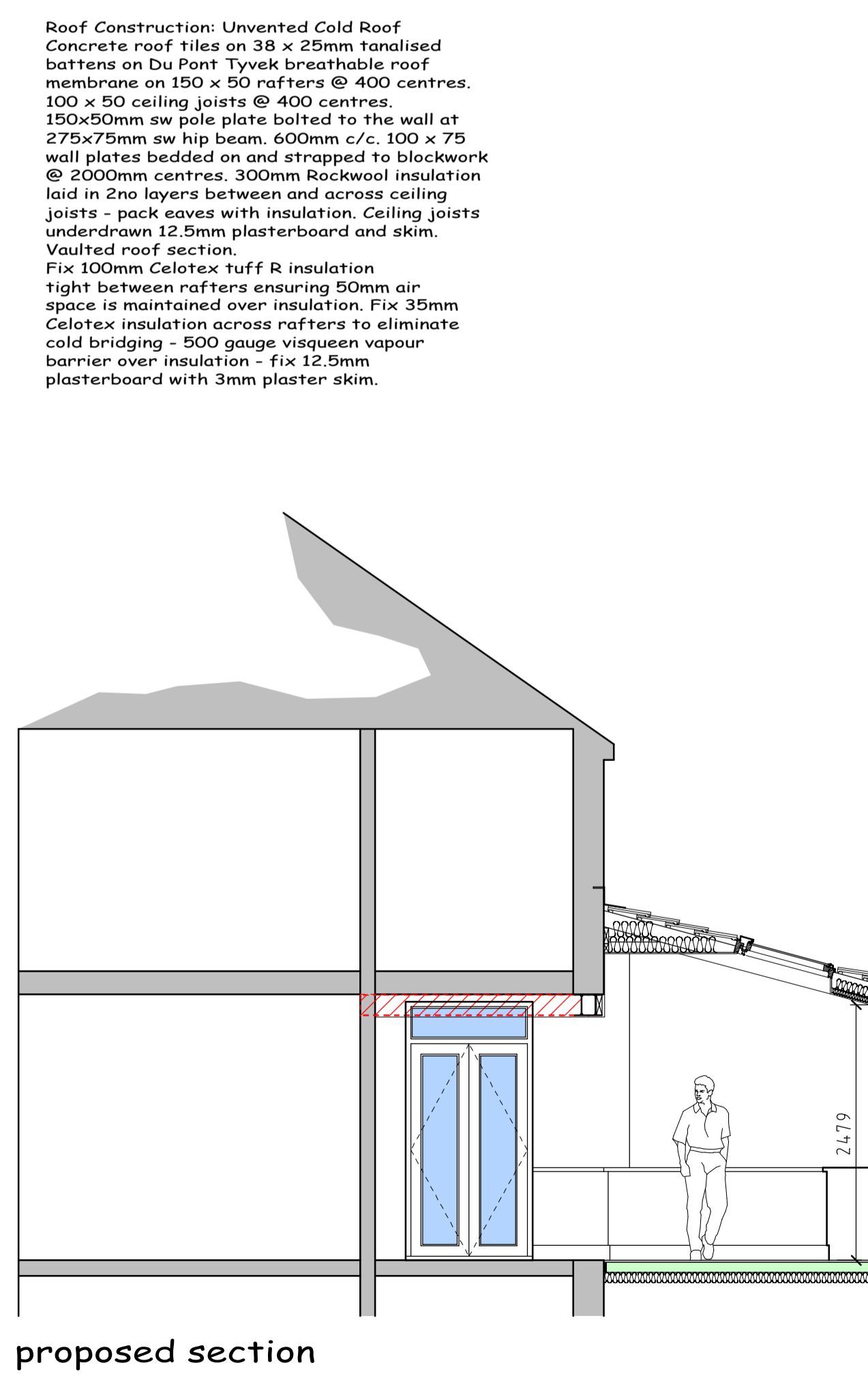
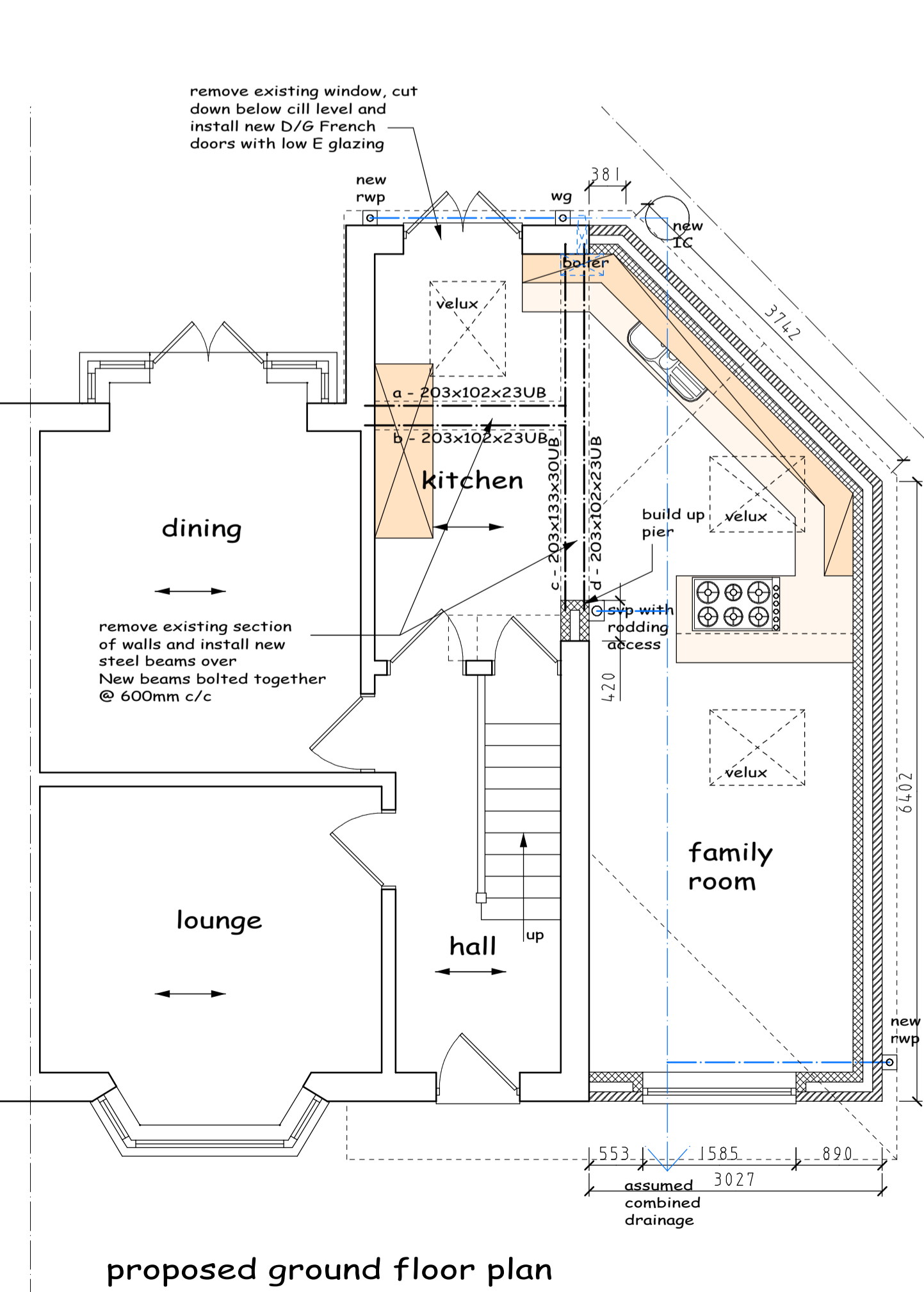
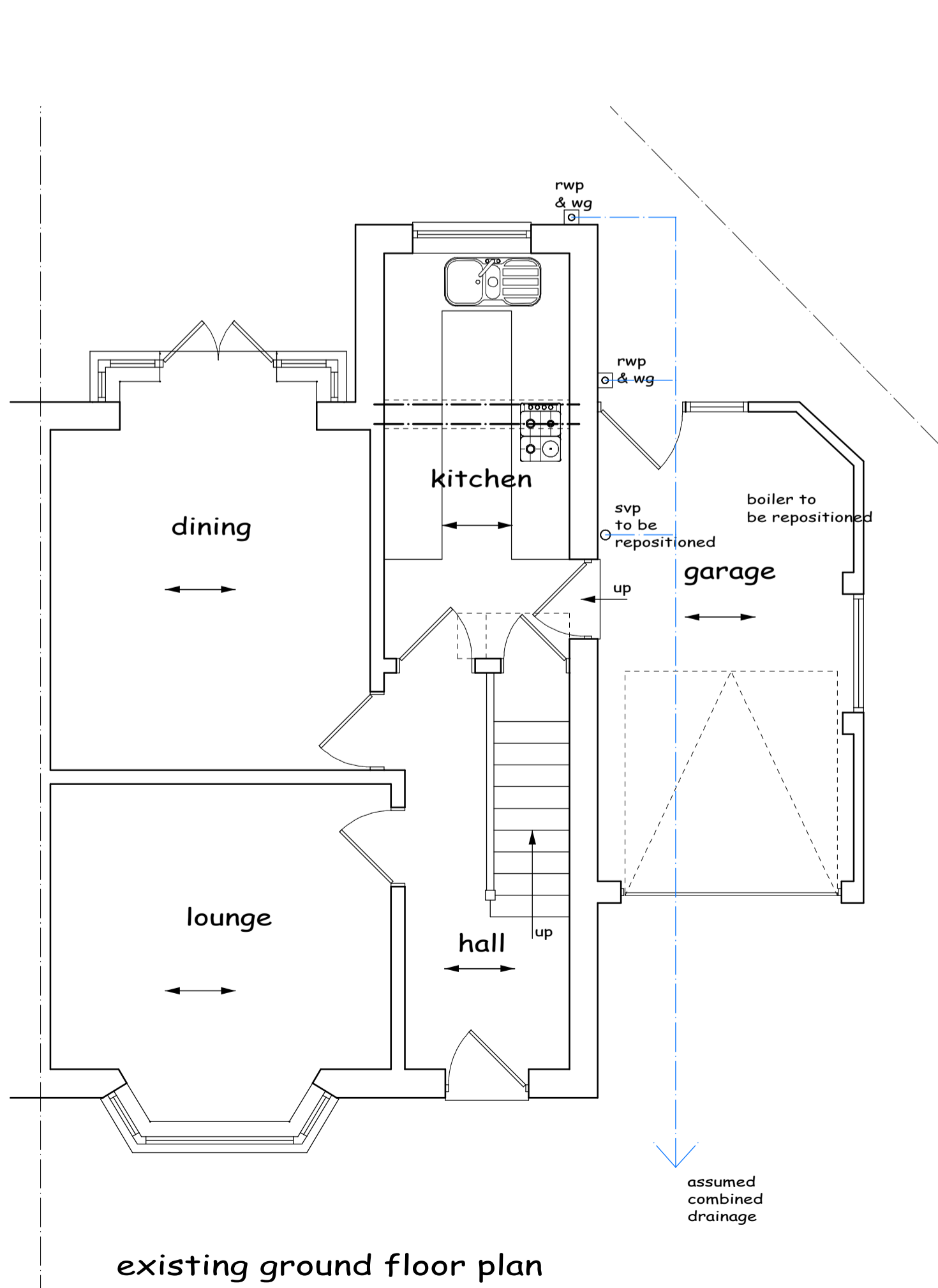
Flashings:
Code 4 lead stepped and straight flashings with DPC cavity trays over at all abutments.

Lighting:
One third of the primary light fittings in the proposed extension (minimum one) to be of a type which will only receive high efficiency lamps.

Structural Steel:
All structural steel to be encased in a minimum 18mm Gypsum plaster to give minimum half hour fire protection.

External Walls traditional:
100mm brickwork outer leaf to match existing 100mm cavity with cavity wall batts - 100mm thermolite block inner leaf dry lined in 12.5mm plasterboard and skim on Drywall dabs. Stainless steel double triangle wall ties (min 59mm embedment) 750mm horizontal c/c & 450 vertical c/c staggered and doubled up at all window and door reveals. Cavities to be closed at all reveals and at eaves - using Thermabate insulated cavity closers. NB all masonry below ground level to be in concrete common brick. DPC to be fixed at min 150mm above ground level. Provide cavity fill to 225mm below damp proof course.

Ventilation:
Unless otherwise stated, room ventilation will be provided by natural means. Windows to incorporate opening lights at least equal to 1/20th floor area, along with controllable trickle vents with an equivalent area of 5,000mm². Where opening restrictors are to be provided the opening lights to be increased in size to 1/10th of the room floor area. Wet room areas to be afforded mechanical extract ventilation using the following extract rates:
Kitchen 30 Litres/sec (adjacent to the hob)
60 Litres/sec elsewhere
Utility Room 30 Litres/sec
Bathroom 15 Litres/sec
Sanitary accommodation 6 Litres/sec.
In addition, controllable trickle vents with equivalent area of area of 2,500mm². All extracts to open air.



Roof Construction: Unvented Cold Roof
Concrete roof tiles on 38 x 25mm tanalised battens on Du Pont Tyvek breathable roof membrane on 150 x 50 rafters @ 400 centres. 100 x 50 ceiling joists @ 400 centres. 150x50mm sw pole plate bolted to the wall at 275x75mm sw hip beam. 600mm c/c. 100 x 75 wall plates bedded on and strapped to blockwork @ 2000mm centres. 300mm Rockwool insulation laid in 2no layers between and across ceiling joists - pack eaves with insulation. Ceiling joists underdrawn 12.5mm plasterboard and skim. Vaulted roof section.
Fix 100mm Celotex tuff R insulation tight between rafters ensuring 50mm air space is maintained over insulation. Fix 35mm Celotex insulation across rafters to eliminate cold bridging - 500 gauge visqueen vapour barrier over insulation - fix 12.5mm plasterboard with 3mm plaster skim.

Doors and Windows:
All new windows to be double glazed and have trickle vents not less than 8000mm². All windows adjoining a door or a glazed door or less than 800mm above floor to be in toughened glass to BS6206 or EN12150. New and replacement windows and roof lights fully draught proofed & double glazed in Optiwhite (outer pane) 16mm argon filled air space with aluminium spacer bar with an inner pane of low emissivity 'K' glass to give a 'U' value of 1.6w/m²k or window energy rating band C certificates of compliance to be provided to building control on completion.
New windows to habitable rooms without alternative at least 1no opening light with a clear opening of 450 x 750mm. Top hung Windows to have assist arms and stays to keep up.

APPROVED DOCUMENT L1 (2005)
From the 1st April 2005, All new and replacement natural gas and LPG boilers are required to have a minimum SEDBUK (Seasonal Efficiency of Domestic Boilers in the UK) rating of 86%. From the 1st April 2005 Oil fired boilers must have a minimum SEDBUK rating of 86%. Exceptional circumstances permitting the installation of a Non-Condensing boiler. The installer must complete an 'Assessment form' using the procedure described in the document 'Guide to the Condensing Boiler Installation Procedures for dwellings' (ODPM 2005). The declaration should be retained by the householder as it may be needed when the property is offered for sale. All electrical work required to meet the requirements of Part P (electrical safety) will be designed, installed, inspected and tested by a person competent to do so. Prior to completion the Local Authority must be satisfied by either:- An electrical installation certificate issued under a Competent Person Scheme has been issued; or Appropriate certificates and forms defined in BS 7671 (as amended) have been submitted that confirm the work has been inspected and tested by a competent person. A competent person will have a sound knowledge and experience relevant to the nature of the work undertaken and to Technical standards set down in BS 7671, be fully versed in the inspection and testing procedures contained in the regulations and employ adequate testing equipment.

This drawing has been prepared for the sole purpose of obtaining Planning Permission and Building Regulation Approval (B.R.). All structural calculations are to be checked by structural engineer prior to construction.

All dimensions & details are to be checked on site prior to construction, any discrepancies reported to ExtensionsNW prior to any work undertaken. Any work undertaken prior to full planning & building regulation approval is at the builder's own risk. ExtensionsNW will not be held responsible for any problems arising.

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DATE	

SCALE	1:50	DATE	March 13
DRAWN	JDJ	PP	BR

CUSTOMER

PROJECT
Single Storey Extension

LOCATION

LOCAL AUTHORITY

3 Clifton Street, Ravenhill, B8A 8BZ
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Web: www.extensionsnw.co.uk E-mail: jpc@extensionsnw.co.uk

JOB No.		REV.	
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