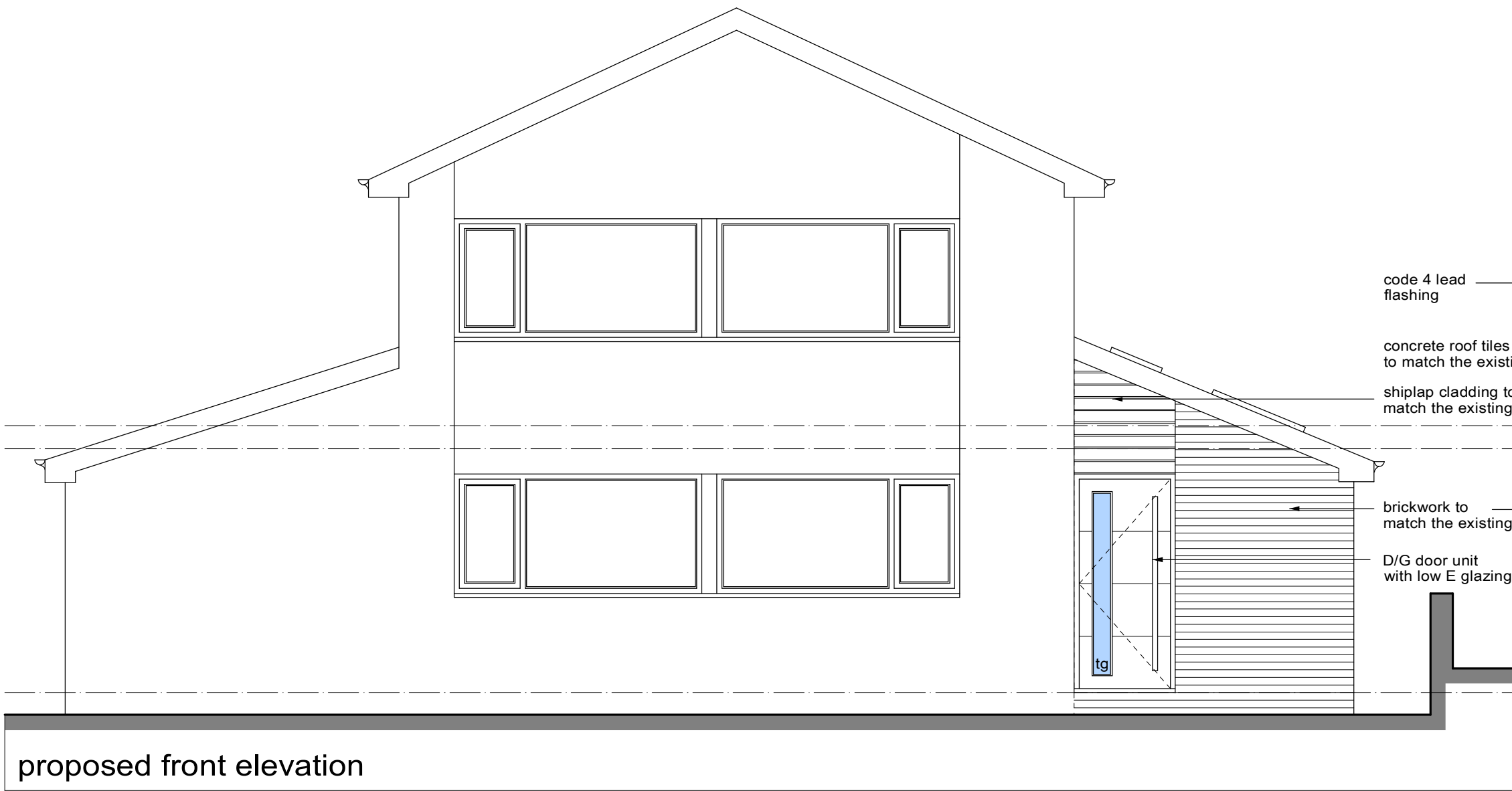
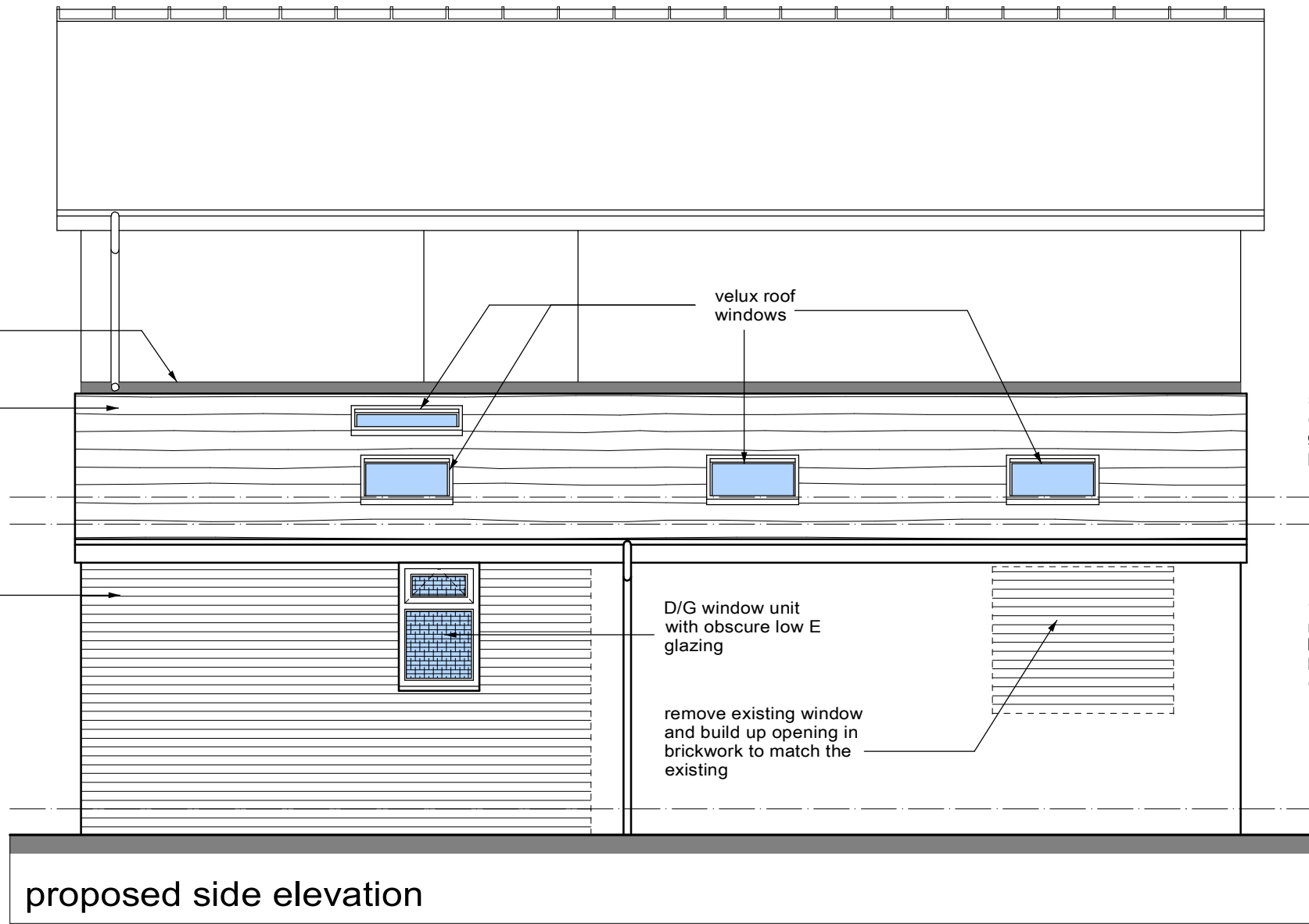
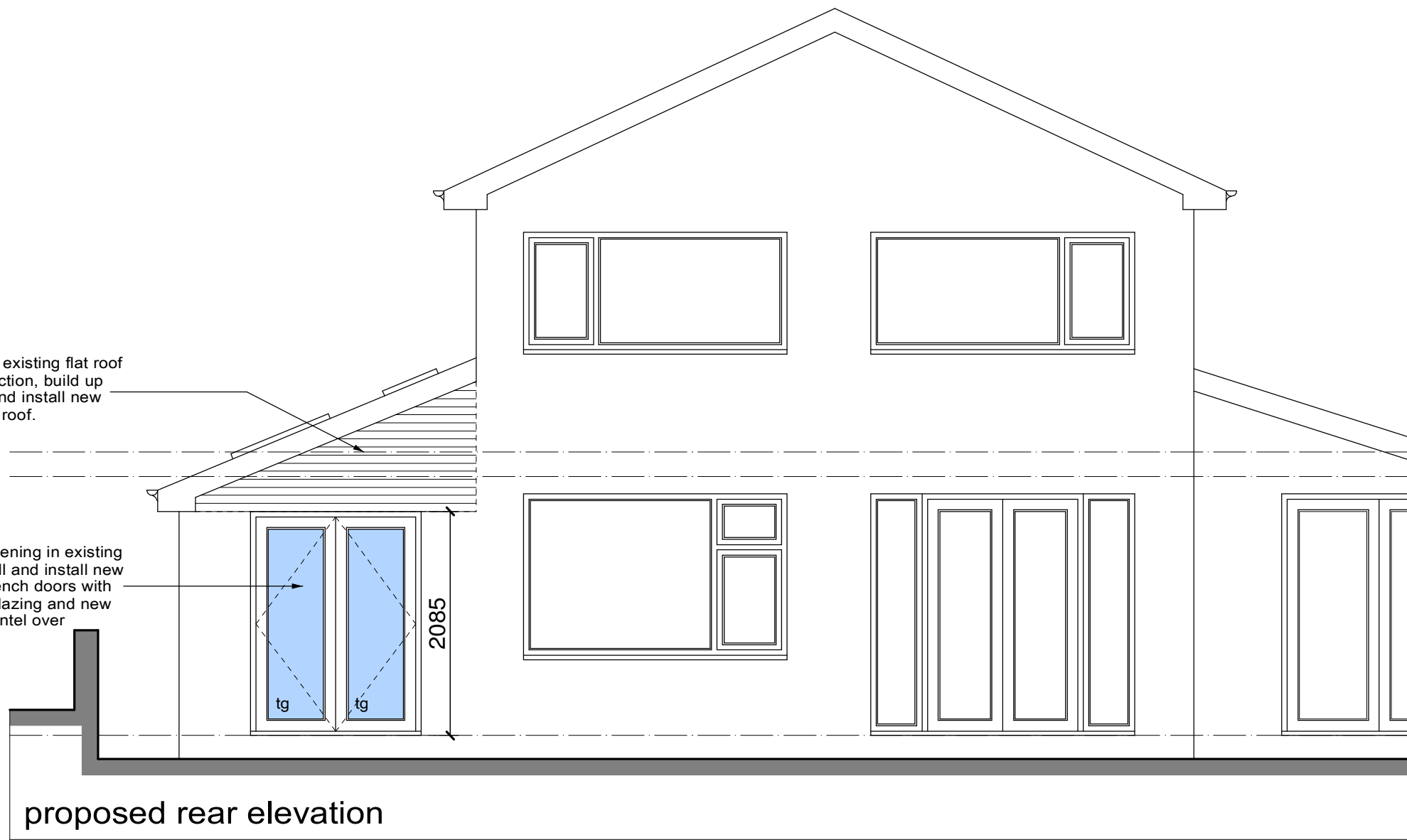




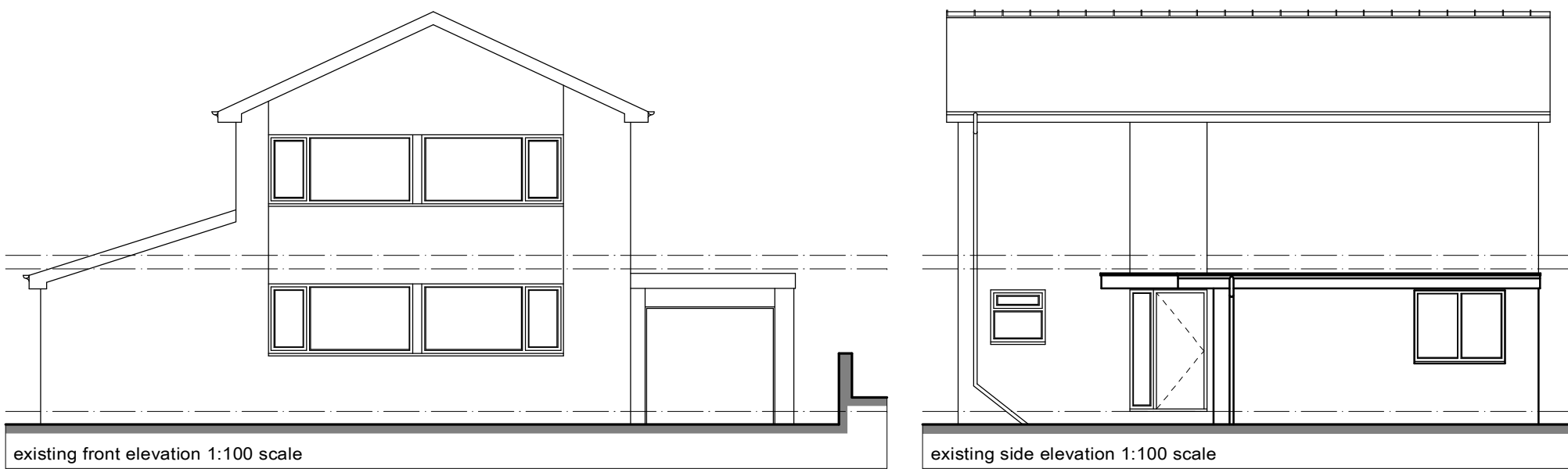
proposed front elevation



proposed side elevation



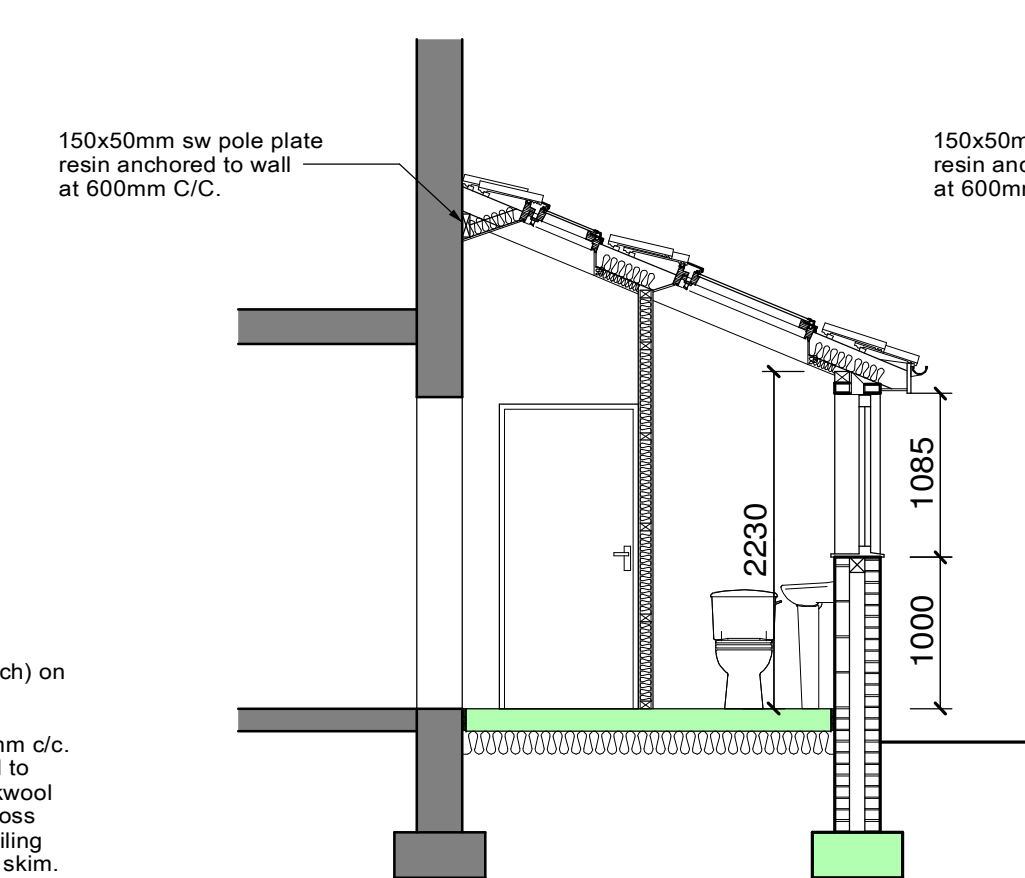
proposed rear elevation



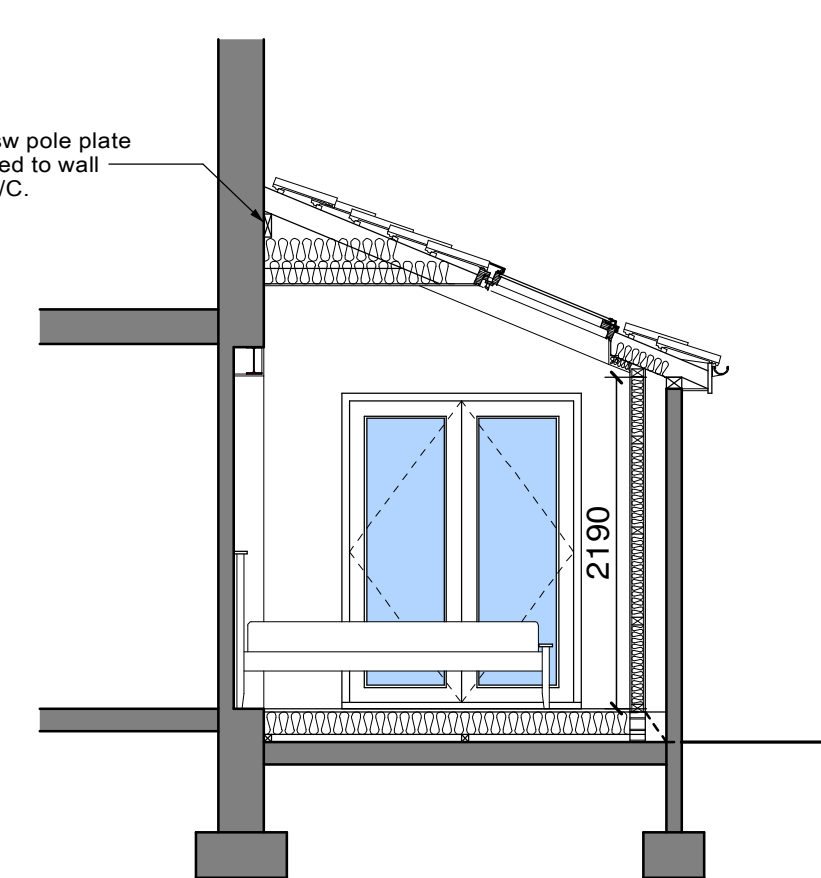
existing front elevation 1:100 scale



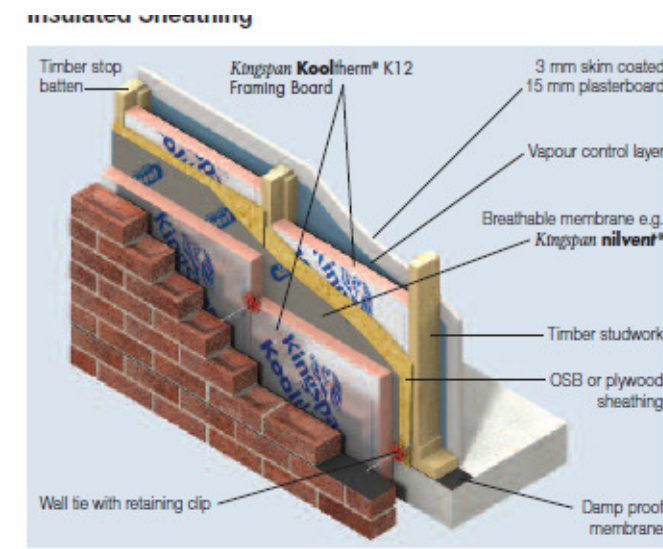
existing side elevation 1:100 scale



section through extension



section through garage conversion



garage wall specification

Foundations:
600 x 300mm 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:
New drains bridged where passing through footings. Drains passing under building to be encased in 150mm concrete. All new drainage to be 100mm diameter Poly pipe Underground or similar drainage system. Pipes laid to self cleansing fall on 150 bed pea shingle. New gullies to be rodable NB Drainage systems to be checked on site to determine - combined or separate systems - if separate ensure foul and surface water are connected to correct drainage system. Any new gas boiler to be min 90% SEDBUK condensing wall mounted with balanced flue/stainless steel guard to outlet. Flues discharge in accordance with manufacturers instructions & to Building Regulations ADJ. Copy of the Building Regulations Compliance Certificate from your GAS SAFE installer to be provided. All new radiators to be provided with thermostatic valves.

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

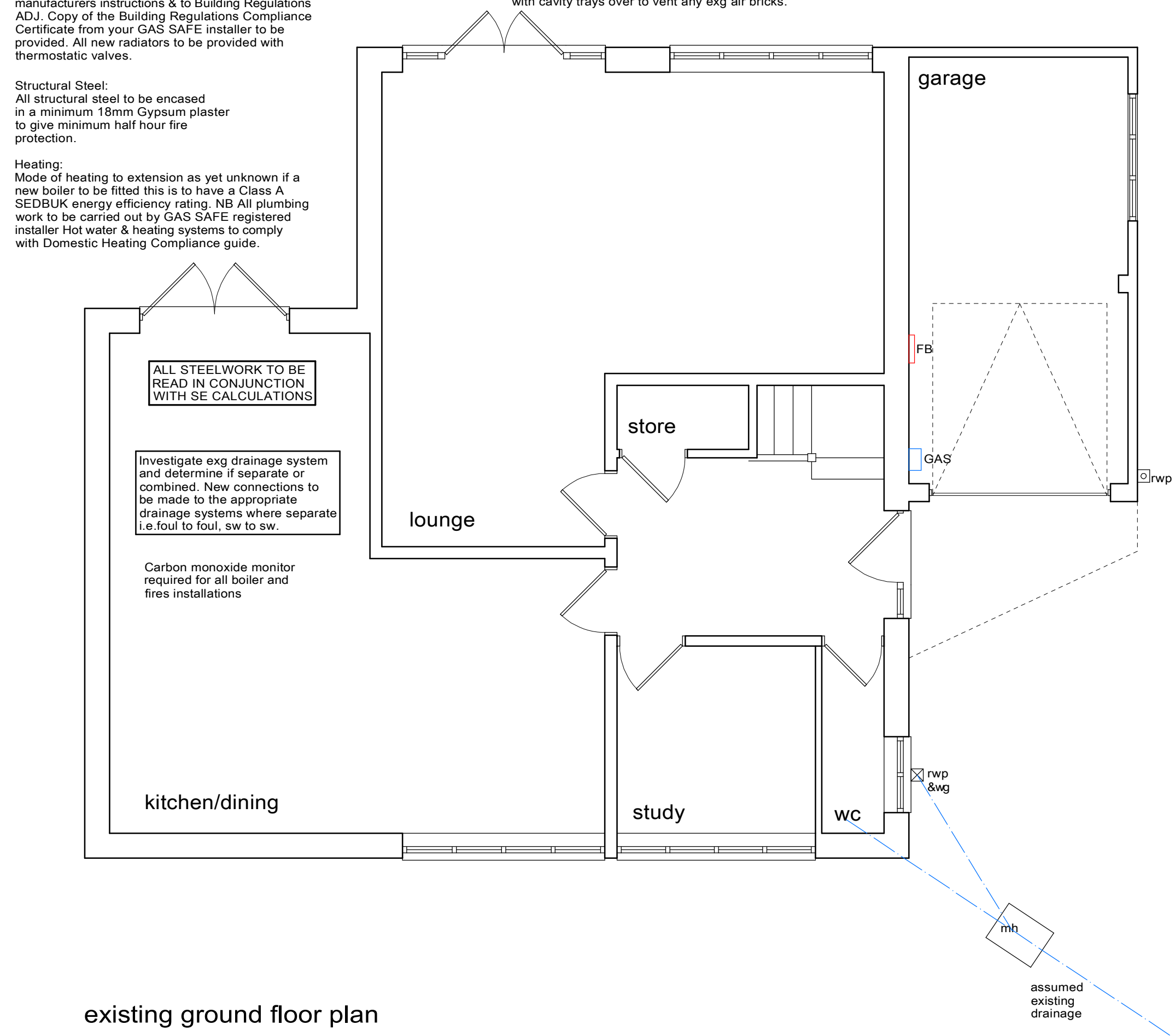
Heating:
Mode of heating to extension as yet unknown if a new boiler to be fitted this is to have a Class A SEDBUK energy efficiency rating. NB All plumbing work to be carried out by GAS SAFE registered installer Hot water & heating systems to comply with Domestic Heating Compliance guide.

External Walls traditional:
Brickwork to match the existing outer leaf 100mm cavity with 90mm Eco-Cavity Full Fill, 10mm cavity - 100mm light 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.

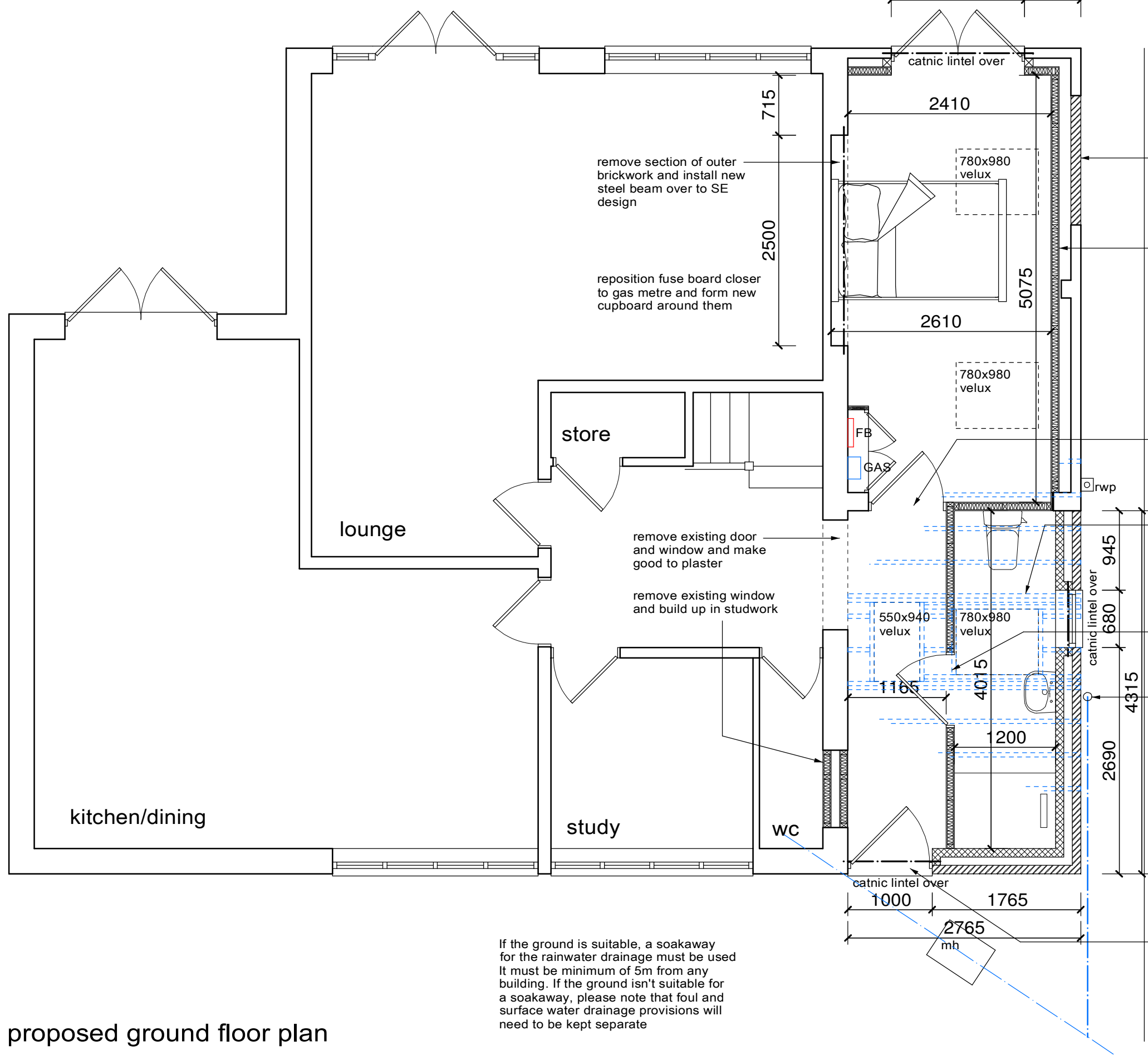
Ground Floor Construction rear extension:
150mm concrete slab with floated finish on visqueen on 110mm Celotex XR4000 or equivalent floor insulation on 1200 gauge DPM lapped into DPC on 25mm sand binding on consolidated hardcore. Provide 25mm ridged insulation to the edge of slab. Provide 100mm dia duct pipe through to air bricks with cavity trays over to vent any exg air bricks.

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 1.4w/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

Main Roof Construction (Side extension):
Roof tiles to match existing and (22.5 deg pitch) on sw tanalised battens on Kingspan Nivent 17 Breathable Membrane with counter batten on C24 150x50mm sw rafters at 400mm 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 section Fix 125mm Kingspan K7 insulation tight between rafters ensuring 25mm air space is maintained over insulation. Fix 42.5mm Kingspan Kooltherm insulation across rafters to eliminate cold bridging - 500 gauge visqueen vapour barrier over insulation - fix 12.5mm plasterboard with 3mm plaster skim. U Value to be 0.15W/m²K



existing ground floor plan



proposed ground floor plan

If the ground is suitable, a soakaway for the rainwater drainage must be used. It must be minimum of 5m from any building. If the ground isn't suitable for a soakaway, please note that foul and surface water drainage provisions will need to be kept separate

remove existing window and build up opening in brickwork to match the existing

140mm cavity and 100mm insulated studwork with 12.5mm plasterboard and skim finish. (see specification)

bedroom door to be 850 - 900mm for wheelchair access

C24 150x50mm sw rafters at 400mm C/C. Double up to the side of velux

bathroom door to be 850 - 900mm for wheelchair access

new stub stack connected back to existing foul drainage

External door to be wide enough for wheelchair access

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)
Utility Room 60 Litres/sec elsewhere
Bathroom 30 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. Extractor to have min 15 mins over run and to be connected to light switch.

Partitions:
Stud walls formed in 100 x 50mm studing at 400 centres with 12.5mm plasterboard and skim finish both sides. All walls between WC & bedrooms to have 50mm sound deadening insulation between.

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.

Ground Floor Construction: Garage conversion 22mm tongue and groove moisture resistant flooring grade chipboard or softwood floorboards to clients discretion on 150x50mm sw floor joists in treated timber bearers with kingspan ridged insulation (125mm thick fitted tight between floor joists) on visqueen DPM on existing garage slab. New floor level to line through with existing house floor.

This drawing has been prepared for the sole purpose of obtaining Planning Permission and Building Regulations Approval (B.R.). All structural calculations are to be checked by a 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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C	
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DATE	

SCALE 1:50	DATE Nov 2024
DRAWN J.D.J.	PP B.R.
CUSTOMER Mr B Popelier	
PROJECT Garage conversion & extension	
LOCATION 8 Keats Road, Greenmount BL8 4EP	
LOCAL AUTHORITY	

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