

Roof trusses-Truss roof calculations to be submitted and approved before work on these elements are commenced. Conditional approval sought

Existing roof structure to be assessed and any alterations to be carried out in strict accordance with structural engineer's details and calculations which must be approved by building control before works commence on site. The existing roof condition must be checked and be free from defects as required by the Building Control Officer any defective coverings or felt to be replaced in accordance with manufacturer's details Existing roof structure to be assessed and any alterations to be carried out in strict accordance with structural engineer's details and calculations which must be approved by building control before works commence on site. The existing roof condition must be checked and be free from defects as required by the Building Control Officer any defective coverings or felt to be replaced in accordance with manufacturer's details

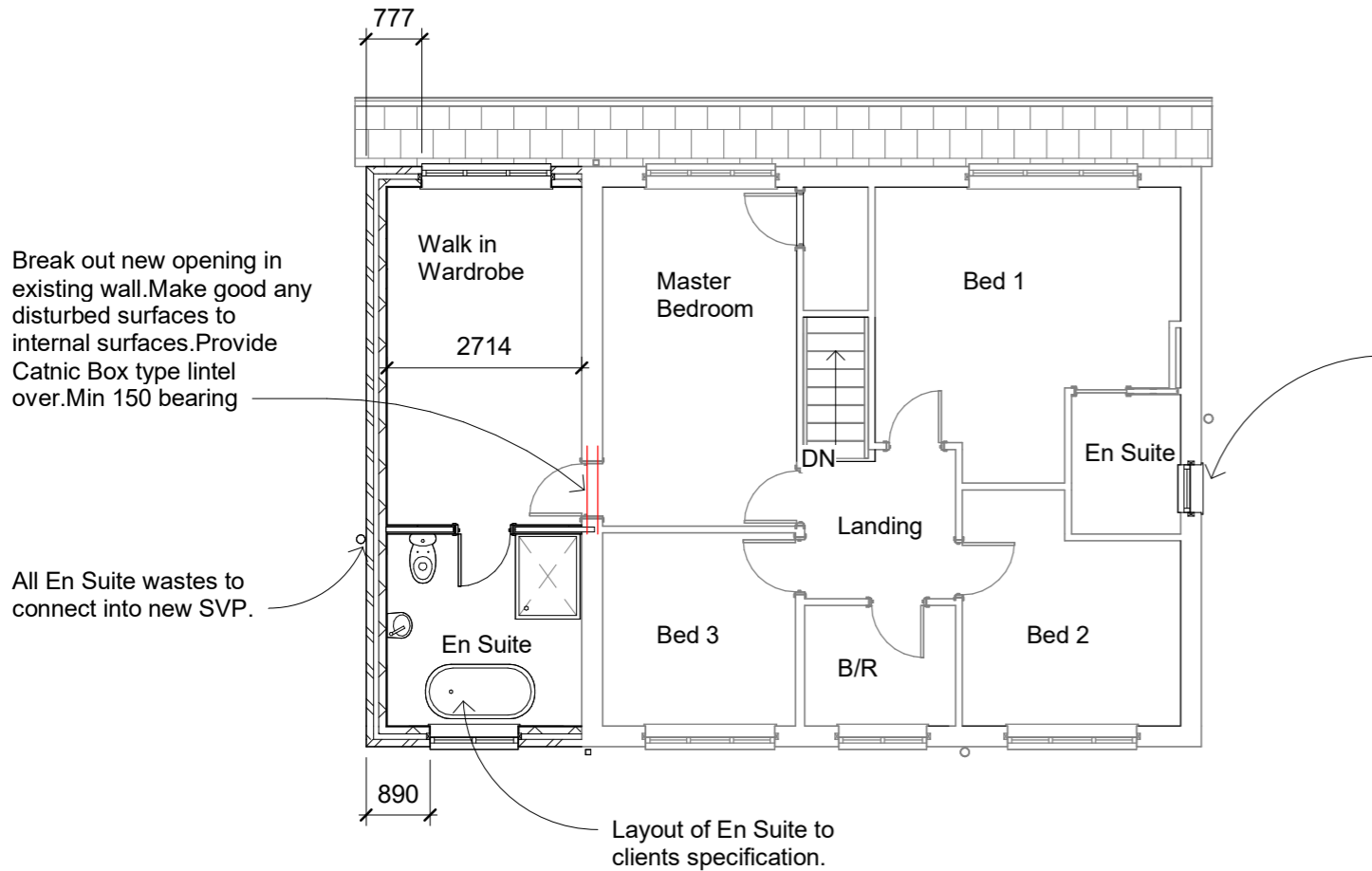
MAIN ROOF - PITCHED ROOF INSULATION AT CEILING LEVEL –Truss roof. Pitch approx. 25° To achieve U value of 0.15 W/m²K
 Timber roof structures to be designed by a specialist roof truss engineer. Calculations to be based on BS EN 1995-1-1 and BS 5268-3. Roofing tiles to match existing on 25 x 50 mm tanalised sw treated battens on breathable felt to BS5534 supported on Roof trusses at max 600 c/s. Trusses supported on 100 x 50 s/w wall plates .Insulation at ceiling level to be 150mm Rockwool insulation laid between ceiling joists with a further 150mm layer over joists (cross direction). Construct ceiling utilising bottom chord of roof trusses, finished internally with 12.5mm plasterboard and min 3mm thistle multi-finish plaster. Provide polythene vapour barrier between insulation and plasterboard. Restraint strapping - 100mm x 50mm wall plate strapped down to walls. Trusses to be strapped to walls and gable walls, straps built into cavity, across at least 3 timbers with noggins. All straps to be 1000 x 30 x 5mm galvanized straps or other approved to BSEN 845-1 at 2m centres, in accordance with CP111 Part 2

INTERMEDIATE FLOORS
 Intermediate floor to be 25mm t&g flooring grade chipboard or floorboards laid on C24 150 X 47 joists (Or to match extg) max span 2760 at 400mm ctrs Lay 100mm Rockwool mineral fibre quilt insulation min 10kg/m³ or equivalent between floor joists. Ceiling to be 12.5 FireLine plasterboard with skim plaster set and finish. Joist spans over 2.5m to be strutted at mid span using 38 x 38mm herringbone strutting or 38mm solid strutting (at least 2/3 of joist depth). In areas such as kitchens, utility rooms and bathrooms, flooring to be moisture resistant grade in accordance with BS7331:1990. Identification marking must be laid upper most to allow easy identification. Provide lateral restraint where joists run parallel to walls, floors are to be strapped to walls with 1000mm x 30mm x 5mm galvanised mild steel straps or other approved in compliance with BS EN 845-1 at max 2.0m centres, straps to be taken across minimum 3 no. joists. Straps to be built into walls. Provide 38mm wide x ¾ depth solid noggins between joists at strap positions

EXTRACT TO EN SUITE. To En Suite provide mechanical ventilation ducted to external air capable of extracting at a rate of 30 litres per second. Internal doors should be provided with a 10mm gap below the door to aid air circulation. Ventilation provision in accordance with the Domestic Ventilation Compliance Guide. Intermittent extract fans to BS EN 13141-4. All fixed mechanical ventilation systems, where they can be tested and adjusted, shall be commissioned and a commissioning notice given to the BCO.

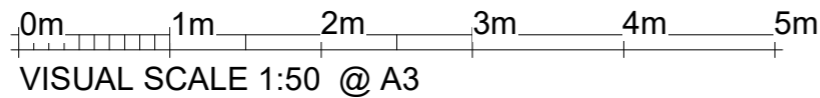
ABOVE GROUND DRAINAGE All new above ground drainage and plumbing to comply with BS. 5572.1978 for sanitary pipework. All drainage to be in accordance with Part H of the Building Regulations. Wastes to have 75mm deep anti vac bottle traps and rodding eyes to be provided at changes of direction. Size of wastes pipes and max length of branch connections (if max length is exceeded then anti vacuum traps to be used) Waste pipes not to connect on to SVP within 200mm of the WC connection. Supply hot and cold water to all fittings as appropriate

INTERNAL STUD PARTITIONS
 100mm x 50mm softwood treated timbers studs at 400mm ctrs with 50 x 100mm head and sole plates and solid intermediate horizontal noggins at 1/3 height or 450mm. Provide min 10kg/m³ density acoustic soundproof quilt tightly packed (eg. 100mm Rockwool or Isowool mineral fibre sound insulation) in all voids the full depth of the stud. Partitions built off doubled up joists where partitions run parallel or provide noggins where at right angles, or built off DPC on thickened concrete slab if solid ground floor. Walls faced throughout with 12.5mm plaster board with skim plaster finish. Taped and jointed complete with beads and stops



Drawings produced for the purpose of Building Regulation approvals only and do not constitute full working drawings

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No.	Description	Date



Planning Building Control Structural Calculations Project Management

PROJECT Proposed Garage Conversion , and Double Extension To Side With Internal Alterations To 5 Sanderling Close , Westhoughton, Bolton. BL5 2SP.	CLIENT Mr And Mrs Quinn
SHEET Proposed First Floor Layout	Date 02/02/2022
	Project number NDH/CQ/9/21/A
	Scale (@ A3) 1 : 100
	Drawn by Neil
	DRAWING NUMBER 3 Of 6
	Checked by Checker
	REV

05/08/2023 14:17:01