

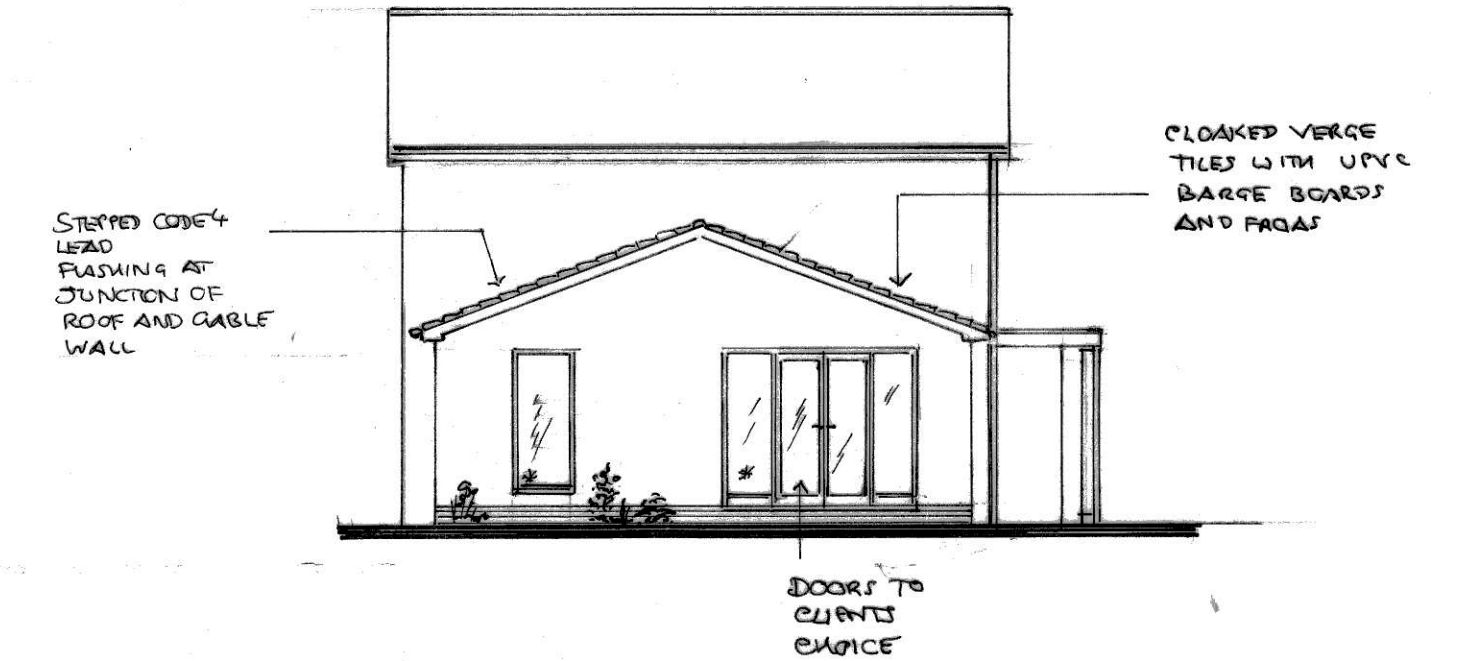
REAR ELEVATION



FRONT ELEVATION



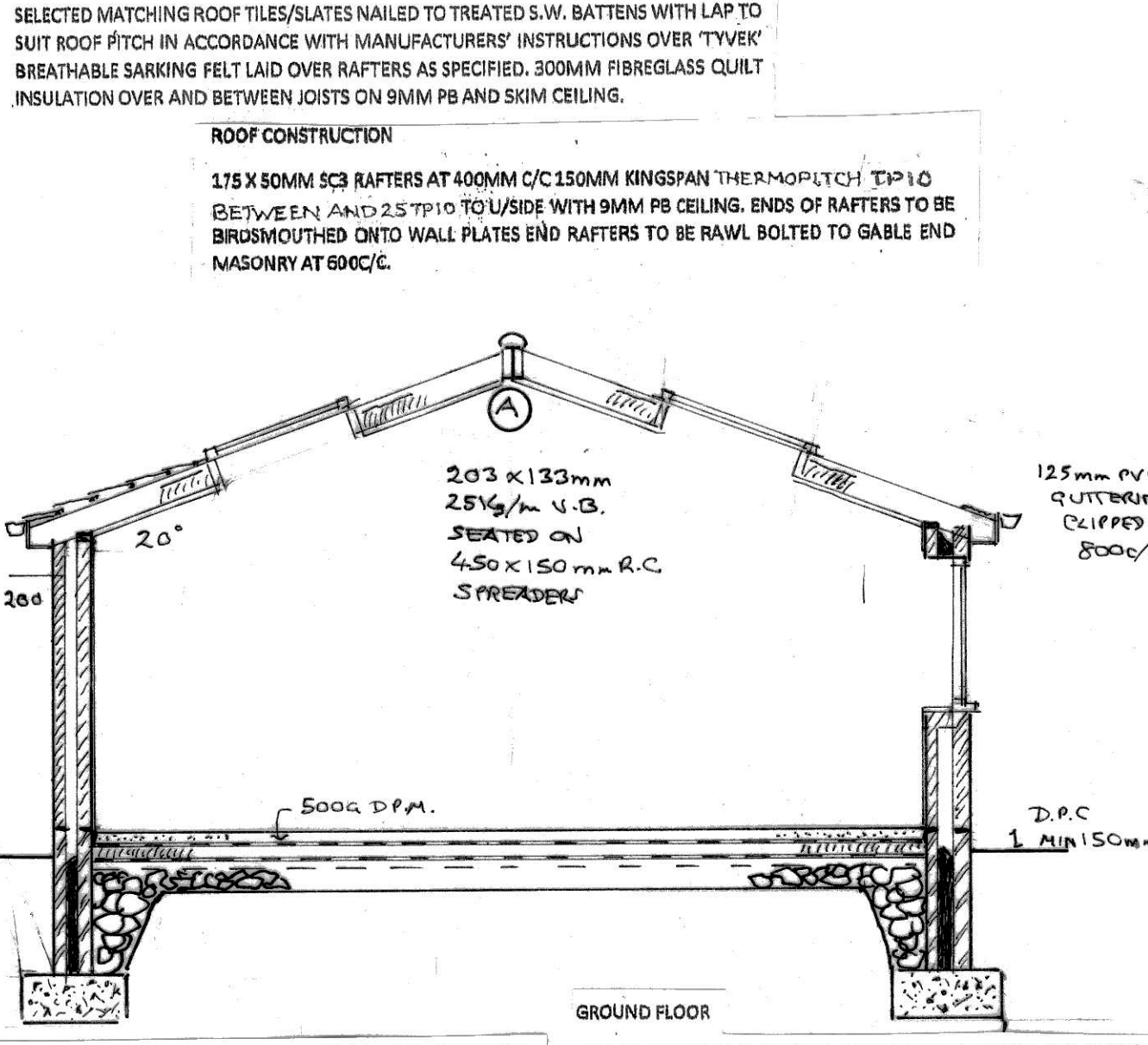
SIDE ELEVATION



MECHANICAL VENTILATION
 ALL BATHROOMS AND SHOWER ROOMS TO BE FITTED WITH A MECHANICAL EXTRACT FAN CAPABLE OF AT LEAST 15 LITRES/SECOND EXTRACT RATE. KITCHENS TO HAVE EITHER A MECHANICAL EXTRACT FAN CAPABLE OF 60 LITRES/SECOND OR A COOKER HOOD CAPABLE OF 30L/s. MECHANICAL EXTRACT FANS SERVING WINDOWLESS BATHROOM/SHOWER ROOMS/W.C. CUBICLES TO PROVIDE AT LEAST 8 AIR CHANGES PER HOUR WITH A 45 MINUTE OVER RUN FACILITY.

NOTE:
 KITCHEN LAYOUT TO CLIENTS CHOICE

SECTION



WALL CONSTRUCTION
 TWO COAT SAND CEMENT RENDER TO MATCH EXISTING ON 100MM CONCRETE BLOCKWORK OR SELECTED FACING BRICK OUTER LEAF 100MM CAVITY WITH EXTERNAL 32 ULTIMATE FULL FILL 100MM CELCON SOLAR BULK INNER LEAF WITH 32.5mm GYPROCK THERMAL BOARD FOR 0.18U VALUE. STAINLESS STEEL CAVITY TIES TO BE PROVIDED AT 450 + 750MM CENTRES AND AT 900MM CENTRES AROUND ALL OPENINGS INSULATED 'THERMABATE' OR SIMILAR CAVITY CLOSERS WITH INSULATED GATNIC OR I.G. PROPRIETARY GALV. STEEL UNITS TO BE PROVIDED OVER ALL CAVITY WALL OPENINGS WITH A MINIMUM 150MM END BEARING. TIMBER STUD PARTITIONS 75 X 50MM STUDDING WITH MINERAL WOOL INFILL AND 12MM PB AND SKIM BOTH SIDES.
 ALTERNATIVE WALL SPEC FOR '3.28' U VALUE TO JO LEAVES 100mm CONCRETE BLOCK WITH 100mm CAVITY FILL TO WITH XTREATHORM INSULATION AND 12mm PB ON DIES

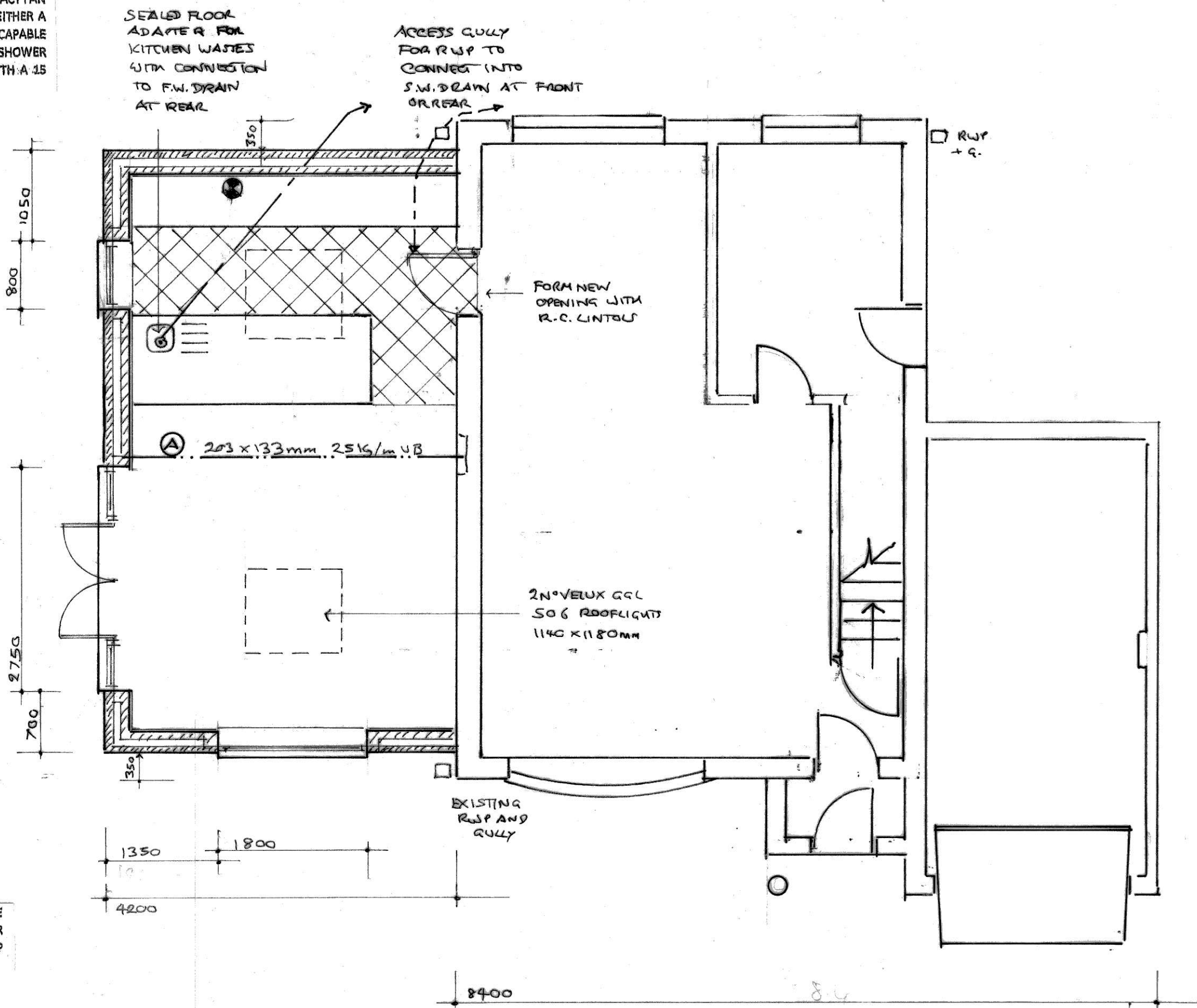
STEEL CHECK
 (A) 203 x 133mm 2516/m UB
 EFFECTIVE SPAN 4200mm
 LOADS
 ROOF1 1.7 x 4.2 x 2.0 14.28
 ROOF2 1.7 x 4.2 x 2.0 14.28
 W 28.56

BENDING
 BM 44/8 = 14.99 KNm
 S_{yd} 44/8 = 91 cm³

DEFLECTION
 S_p 2/360 = 11.6mm
 S_a 541/3 = 5 x 28.56 x 4.2³ / 384 EI = 27.55 EI = 5.6mm ✓

FOUNDATIONS
 TWO LEAVES BRICKWORK BELOW D.P.C. LEVEL WITH CONCRETE CAVITY FILL UP TO 225MM BELOW D.P.C. LEVEL STRIP CONCRETE FOOTINGS MINIMUM 600MM X 200MM THICK AT LEAST 1000MM DEEP BEARING ON FIRM CLAY SUB STRATA, OVERALL SIZE AND DEPTH TO SUIT GROUND CONDITIONS IN AGREEMENT WITH THE B.C.O./A1.

GROUND FLOOR
 100MM CONCRETE SLAB WITH SELF LEVELLING SCREED AND FINISH TO CLIENT'S CHOICE ON 120MM 'CELOTEX' ON 1200 G VISQUEEN DPM ON 50MM SAND BLINDING OVER 150MM WELL CONSOLIDATED BRICK HARDCORE. INSULATION BOARD TO BE TURNED UP AT EDGE OF SLAB, D.P.C. AND D.P.M. TO BE LAPPED AND BONDED.



GROUND FLOOR PLAN

WINDOWS
 ALL NEW WINDOWS AND ROOF LIGHTS IN U.P.V.C OR H.W. FRAMES TO HAVE 20MM SEALED DOUBLE GLAZED UNITS INCORPORATING LOW EMISSIVITY 'K' GLASS TO ACHIEVE A MAXIMUM 1.4W/m² K VALUE.

VENTILATION
 ALL HABITABLE ROOMS TO HAVE AT LEAST 8000MM³ BACKGROUND VENTILATION PROVIDED THROUGH TRICKLE VENTILATORS BUILT INTO WINDOW FRAMES OR 2 NO 225 X 150MM AIR BRICKS WITH LOUVRED CONTROLLABLE PLASTER VENTS. AT LEAST 4000MM³ BACKGROUND VENTILATION TO BE PROVIDED TO KITCHENS, BATHROOMS AND UTILITY ROOMS. WINDOW FRAMES TO INCORPORATE OPENING VENTS EQUIVALENT TO AT LEAST 5% OF THE FLOOR AREA OF THE ROOM SERVED.

DRAINAGE
 ALL NEW DRAINS TO BE LAID USING 100MM DIAMETER HEPSELYE OR U.P.V.C PIPES AT 1:40 MINIMUM SELF-CLEANING GRADIENT. DRAINS UNDER BUILDING AND WITHIN 1M OF FOUNDATIONS TO BE ENCASED IN CONCRETE SURROUND, DRAINS PASSING THROUGH FOUNDATIONS TO BE BRIDGED OVER WITH P.C.G. LINTOLS AND ROCKER PIPE USED EITHER SIDE OF WALL. 100MM DIAMETER S.V.P.'s TO RECEIVE UPPER FLOOR FITTINGS WITH WIRE BIRD CAGE TERMINAL AT LEAST 900MM ABOVE THE HIGHEST WINDOW VENT OPENING AND ABOVE ROOF LEVEL. ALL NEW SANITARY FITTINGS TO HAVE ANTI VAC TRAPS WITH WASTES CONNECTED SEPARATELY INTO SOIL STACKS. ALL WASTES TO BE MADE ACCESSIBLE.

GENERAL NOTES
 ALL DIMENSIONS INCLUDING ROOF PITCHES TO BE CHECKED BY CONTRACTOR BEFORE WORK COMMENCES. ALL WORK TO COMPLY WITH CURRENT BUILDING REGULATIONS AND CARRIED OUT TO THE COMPLETE SATISFACTION OF THE DISTRICT B.C.O. ALL TIMBER TO BE TREATED WITH PRESERVATIVE. ALL NEW STEELWORK TO BE ENCASED IN 12M GYPSUM 'FIRELINE' BOARD FOR 30 MINUTES FIRE PROTECTION. ALL GALV. LINTOLS TO BE INSULATED AND ENCASED WITH 12MM PLASTERBOARD AND SKIMFOR 30 MINUTES FIRE PROTECTION. ALL ELECTRICAL WORK TO BE UNDERTAKEN BY NICEIC APPROVED CONTRACTOR WITH AN INSTALLATION CERTIFICATE TO BE PROVIDED ON COMPLETION. ALL NEW RADIATORS TO BE FITTED WITH THERMOSTATIC VALVES AND C.H. BOILERS TO BE REPLACED IF NECESSARY WITH CONDENSING TYPE BOILERS AND INSTALLED BY A CORGI REGISTERED CONTRACTOR. TOUGHENED OR LAMINATED SAFETY GLASS TO BE USED IN ALL CRITICAL LOCATIONS. *

CLIENT
 MR & MRS. A. WHEELHOUSE

SCHEME
 SINGLE STOREY
 EXTENSION AT SIDE

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 HELMSHORE
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DRAWING TITLE	NUMBER	REVISION
DATE	August 2023	SCALES 1:50 1:100

