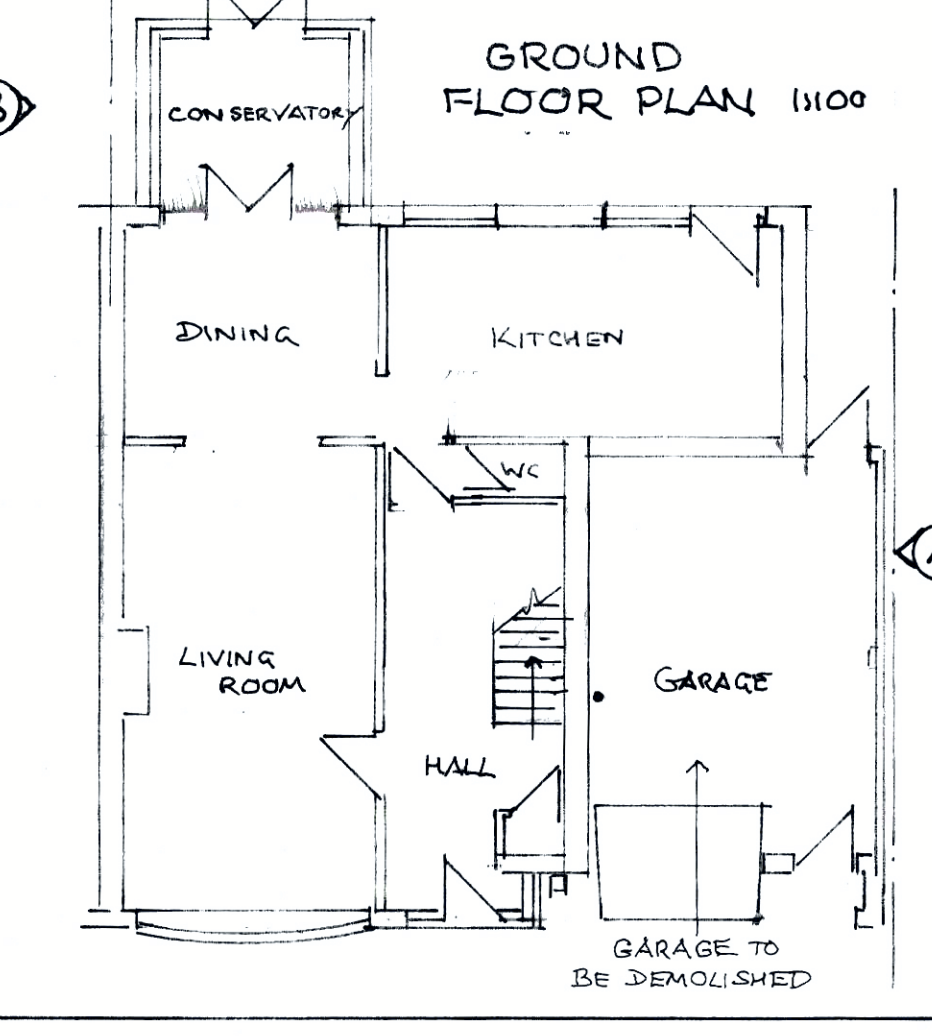
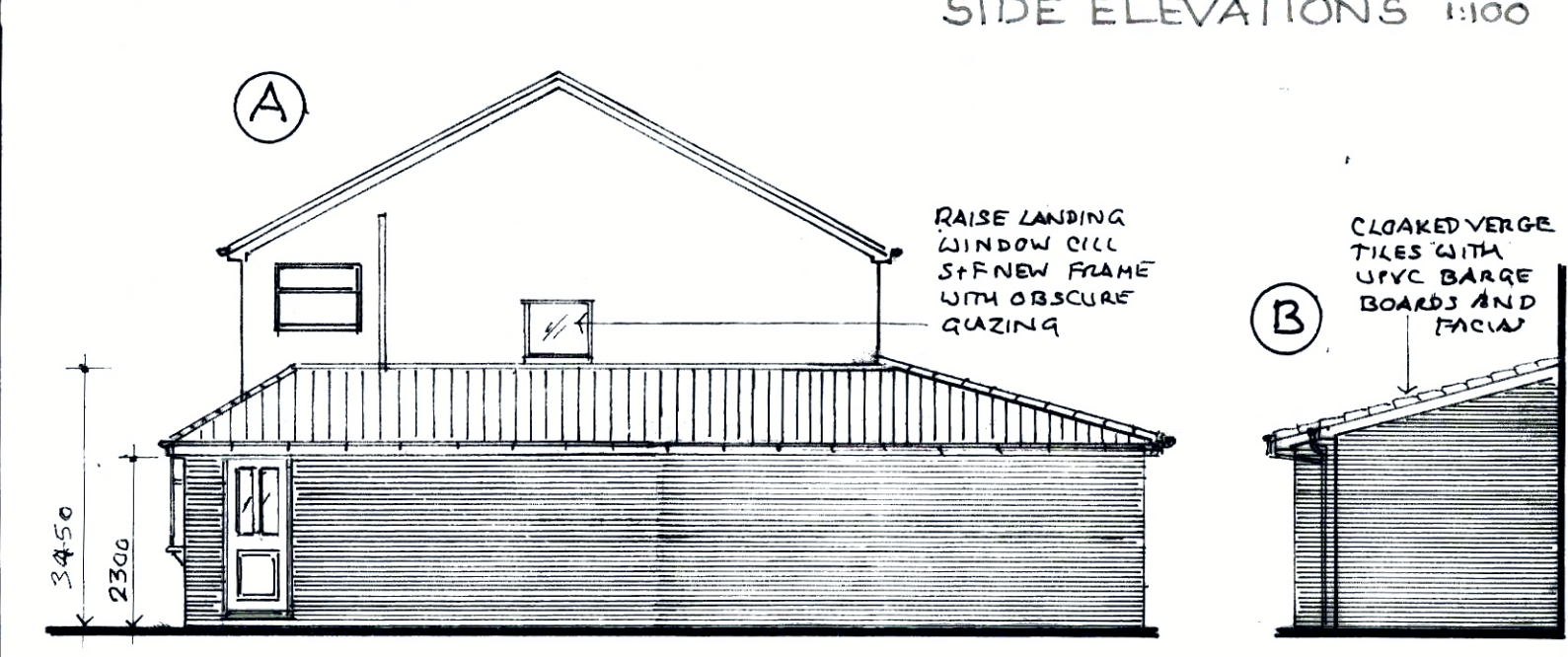
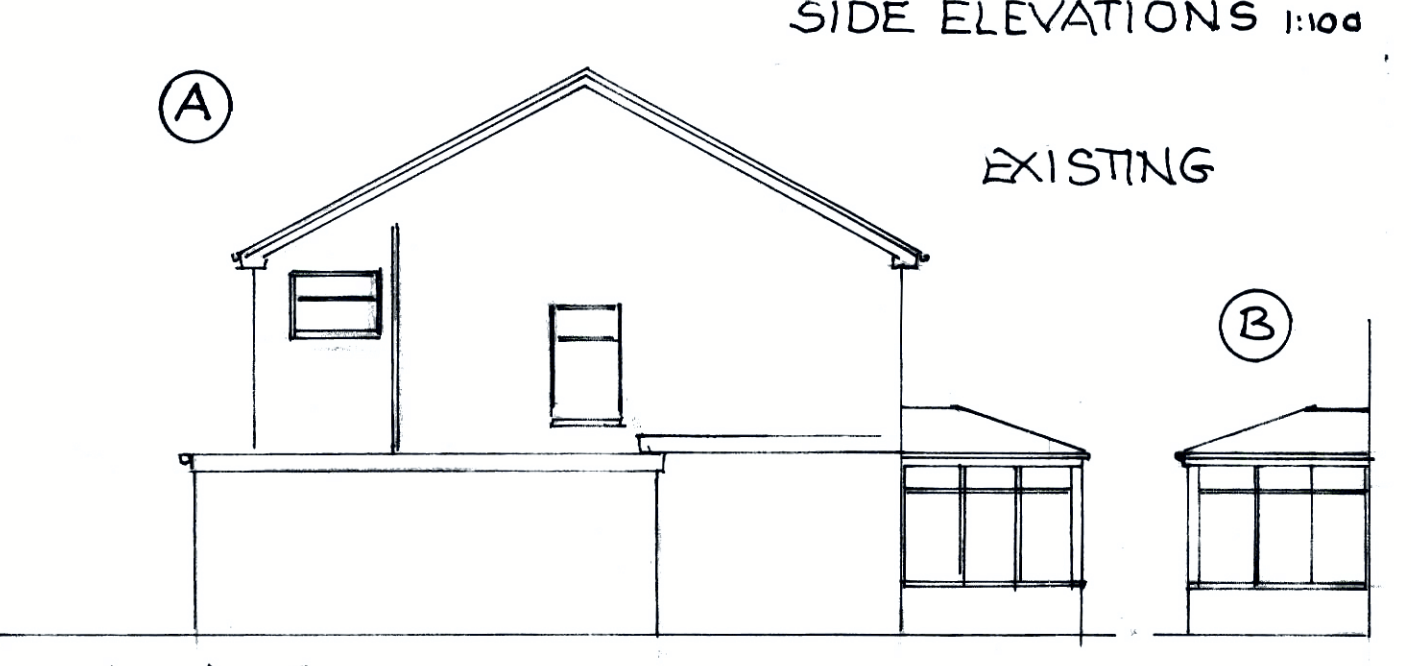
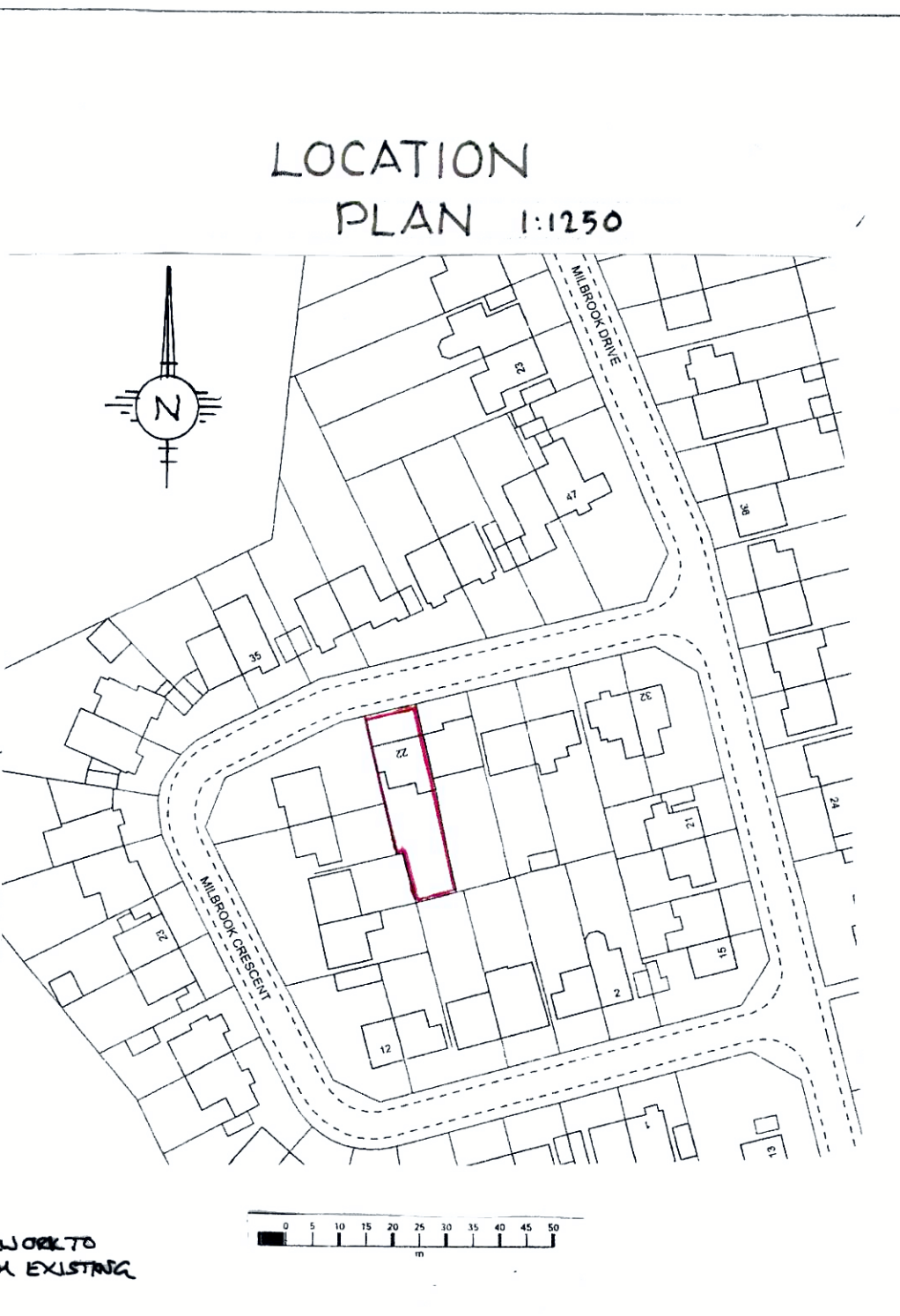
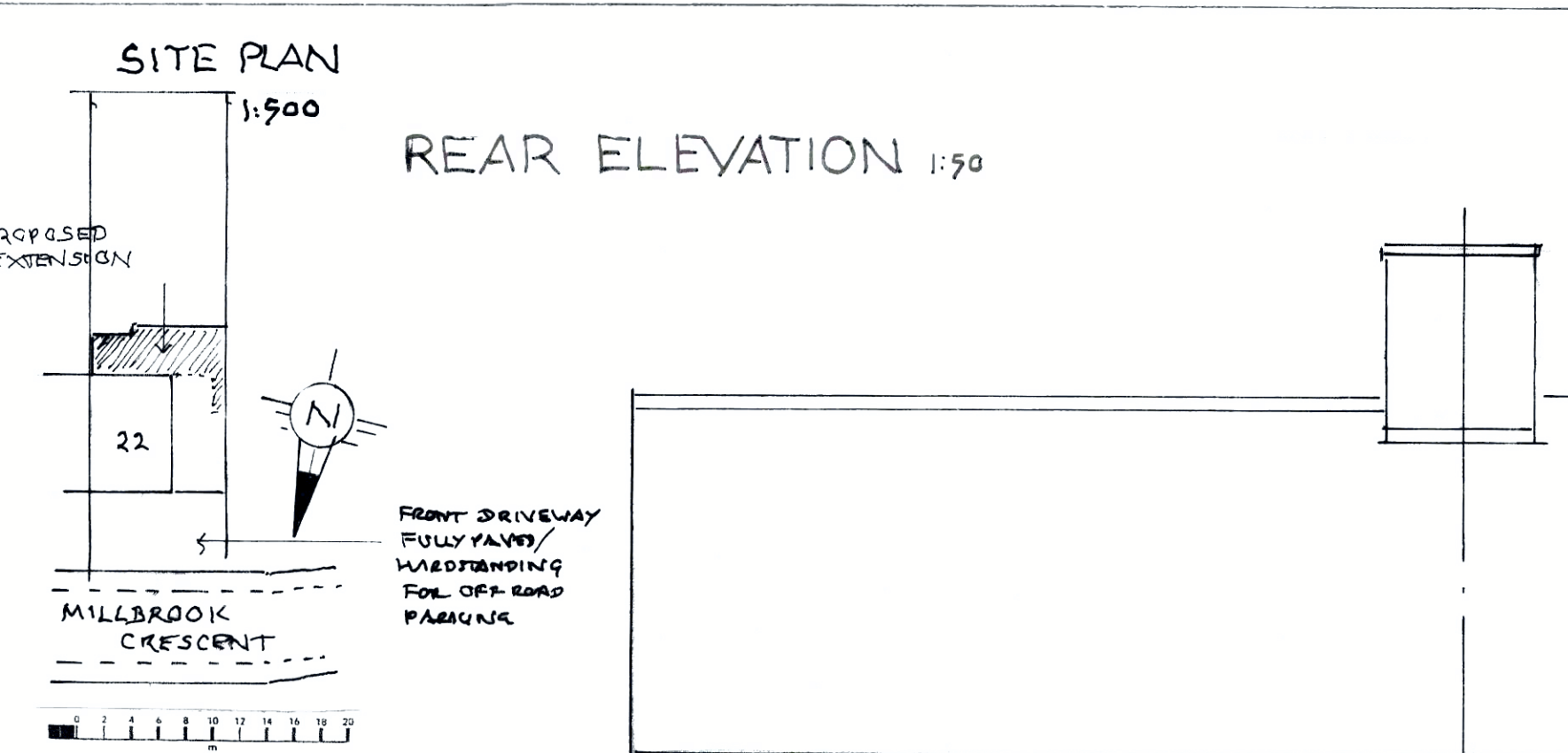
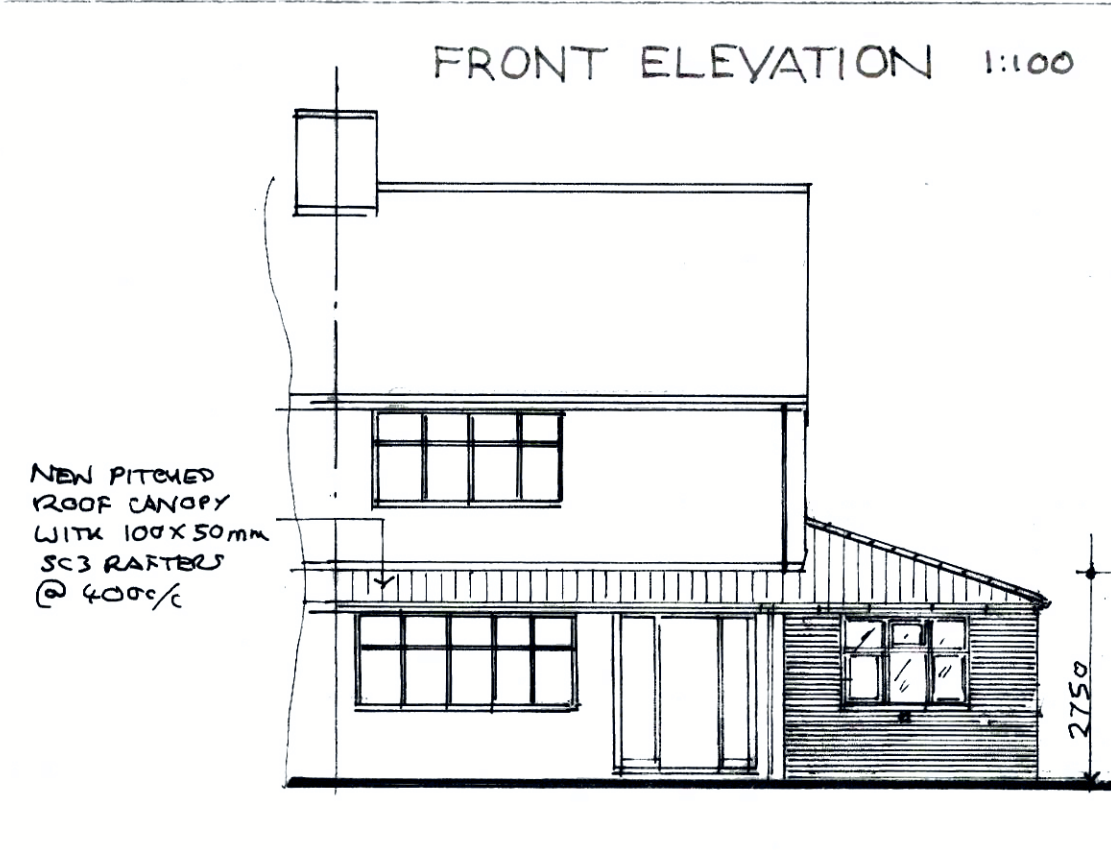
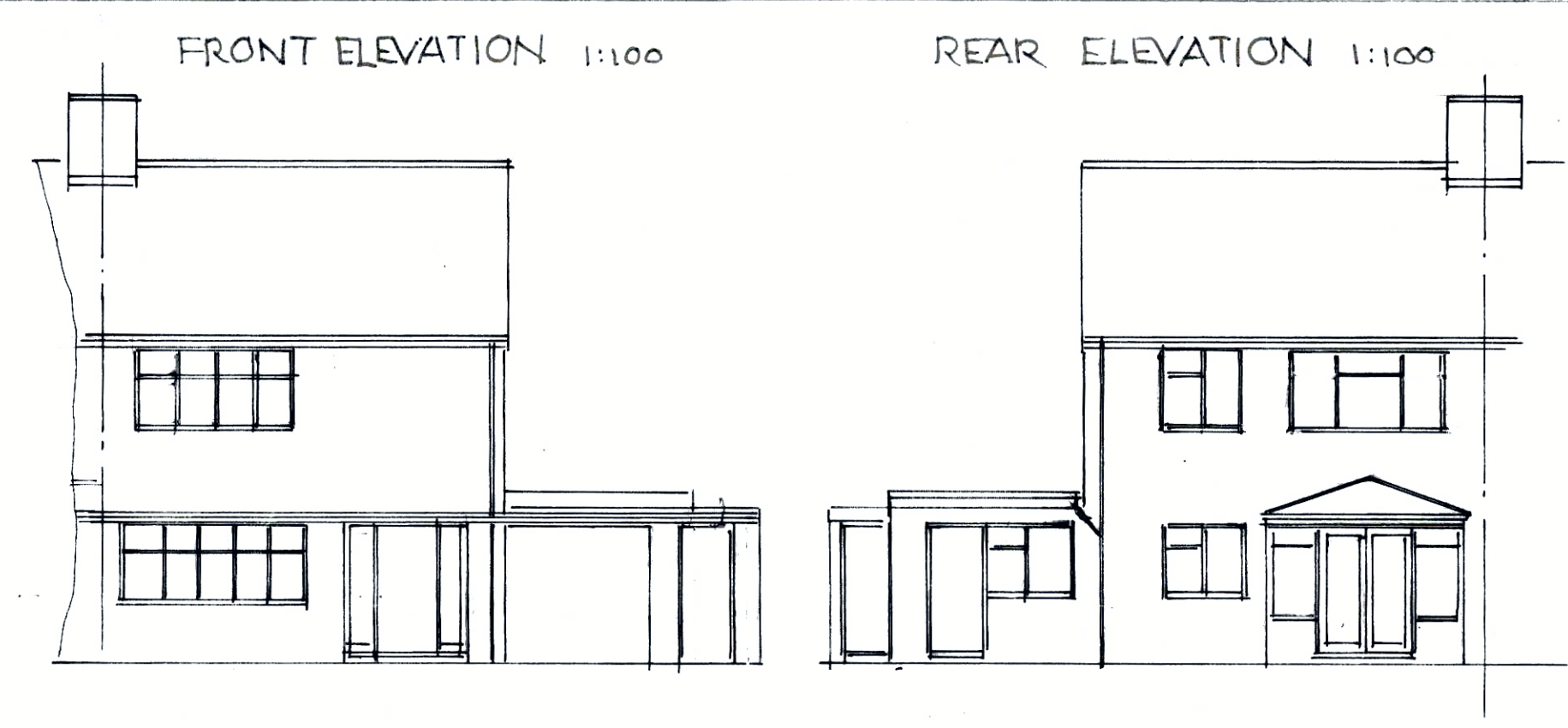




STEEL CHECKS

① 203x102mm UB SPAN 3000

LOADS

GWK 3.5 x 3.0 x 2.2 23.1

FLOOR 1.2 x 3.0 x 2.5 9.75

ROOF 2.4 x 1.3 x 2.0 6.24

W 29.09

BM W/L = 14.66 kN/m

Z_{ed} M/pbc = 89 cm³/m

S_p 1/360 = 8.3 mm

S_a 5UL3 = 13.7 k = 3 mm ✓

② 254x102mm 28kg/m UB SPAN 3600

LOADS

GWK 2.5 x 3.6 x 2.2 19.8

ROOF 1.2 x 3.6 x 2.0 8.64

W 28.44 kN

POINT LOAD FROM X P = 31.1 kN

BM W/L + P/L = 12.8 + 28 = 40.8 kN/m

Z_{ed} M/pbc = 247 cm³/m

S_p 1/360 = 10 mm

S_a 5UL3 + P/L = 18 + 17.5 = 35.5 = 3.2 mm ✓

WINDOWS

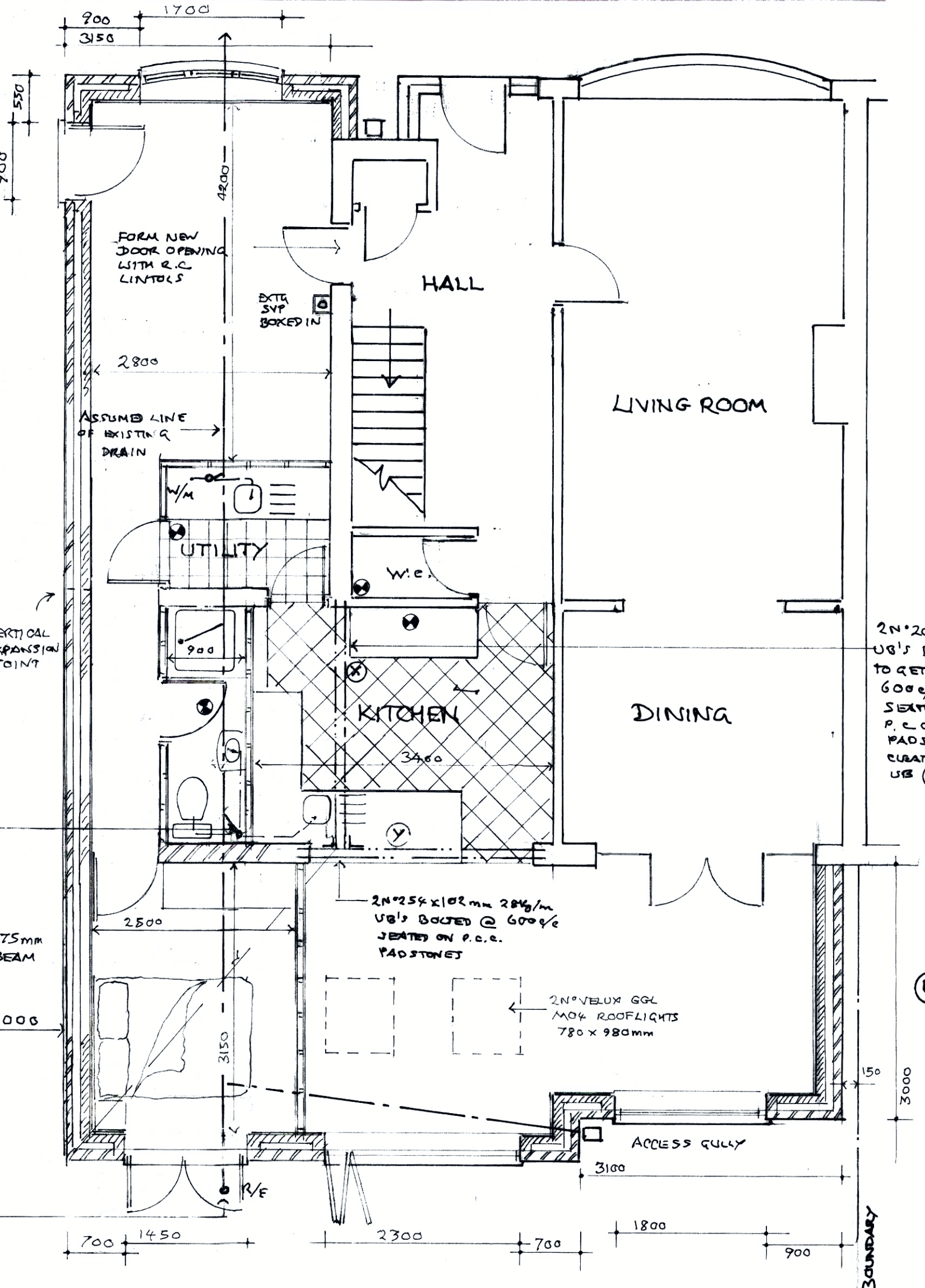
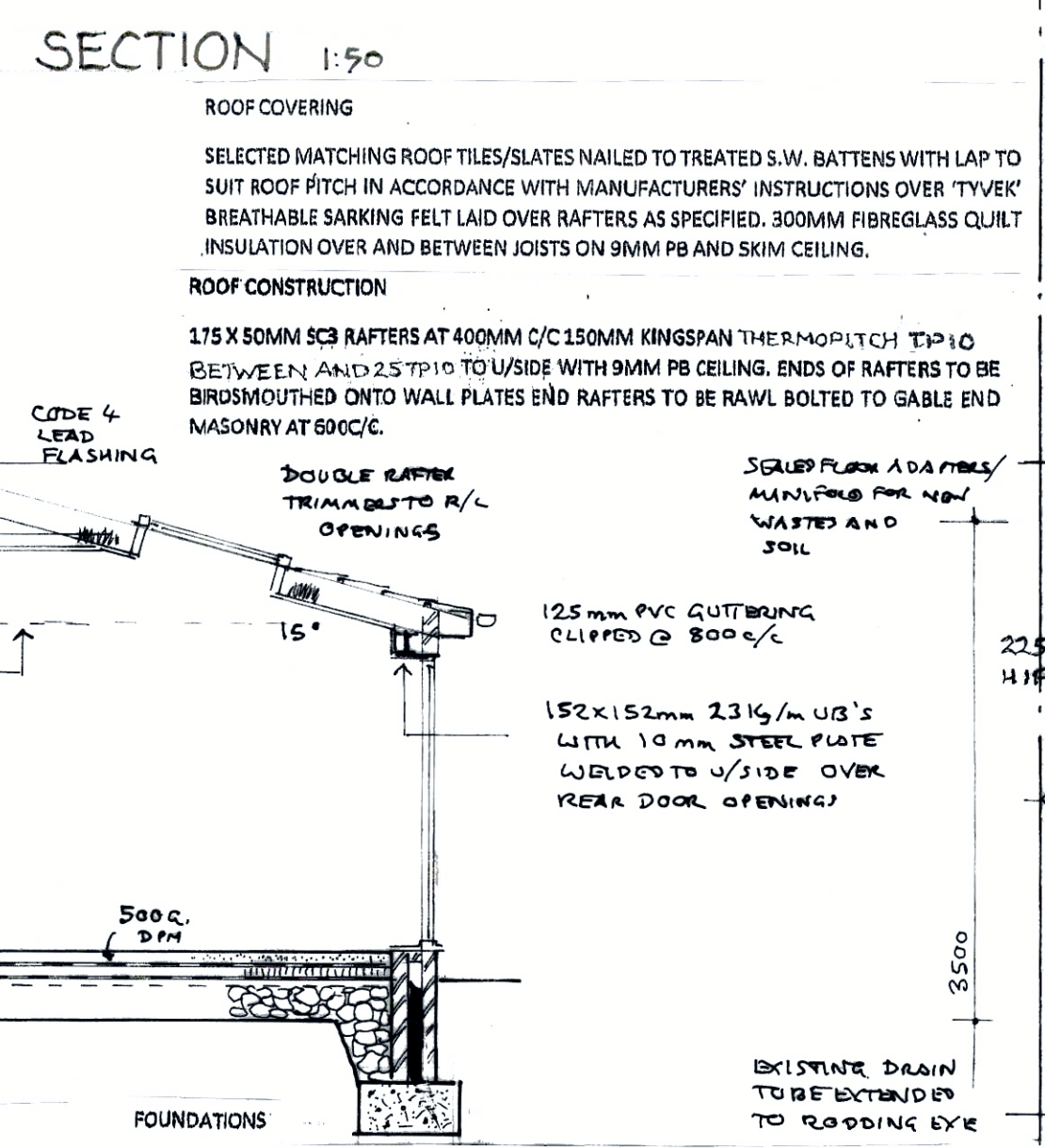
ALL NEW WINDOWS AND ROOF LIGHTS IN U.P.V.C OR H.W. FRAMES TO HAVE 20MM SEALED DOUBLE GLAZED UNITS INCORPORATING LOW EMISSIVITY 'K' GLASS TO ACHIEVE A MAXIMUM 1.4W/M²K VALUE.

VENTILATION

ALL HABITABLE ROOMS TO HAVE AT LEAST 8000MM³ BACKGROUND VENTILATION PROVIDED THROUGH TRICKLE VENTILATORS BUILT INTO WINDOW FRAMES OR 2 NO 225 X 130MM AIR BRICKS WITH LOUVERED 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.

WALL CONSTRUCTION

TWO COAT SAND CEMENT RENDER TO MATCH EXISTING ON 100MM CONCRETE BLOCKWORK OR SELECTED FACING BRICK OUTER LEAF 100MM CAVITY WITH 125MM 32 ULTIMATE FULL FILL 100MM CELCON SOLAR BULK INNER LEAF WITH 132.5MM 64 PROTECT THERMAL BOARD FOR 0.18U VALUE. STAINLESS STEEL CAVITY TIES TO BE PROVIDED AT 450 = 750MM CENTRES AND AT 300MM CENTRES AROUND ALL OPENINGS. INSULATED THERMABATE OR SIMILAR CAVITY CLOSERS WITH INSULATED CATNIC OR I.G. PROPRIETARY GALV. STEEL LINTOLS 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.



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 3 AIR CHANGES PER HOUR WITH A 15 MINUTE OVER RUN FACILITY.

DRAINAGE

ALL NEW DRAINS TO BE LAID USING 100MM DIAMETER HEPSELEVE 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.C. LINTOLS AND ROCKER PIPE USED EITHER SIDE OF WALL 100MM DIAMETER S.P.F. 5 TO RECEIVE UPPER FLOOR FITTINGS WITH WIRE BIRD CAGE TERMINAL AT LEAST 900MM ABOVE THE HIGHEST WINDOW VENT OPENING AND ABOVE 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
ANGELA RUGG

SCHEME
SINGLE STOREY EXTENSION
AT REAR AND SIDE

ADDRESS
N° 22 MILLBROOK CRESCENT
KIRKBY
L 32 1 TJ

DRAWING TITLE
NUMBER
KA 041

DATE
APRIL 2023

SCALES
A1 SIZE SHEET

REVISION
A3

1:50
1:100