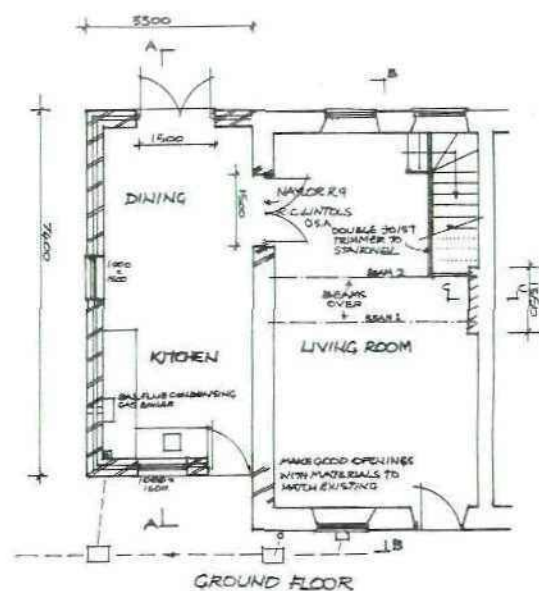
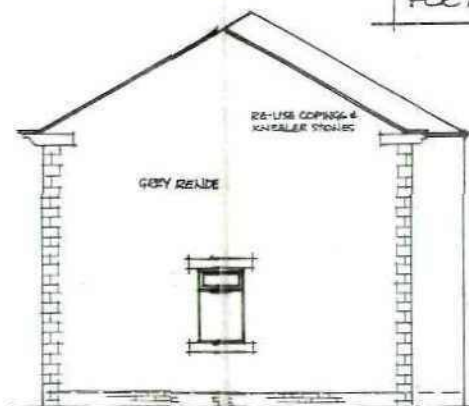


PROPOSED TWO STOREY EXTENSION
AND ALTERATIONS - AT 1 SPRING GARDENS
HUTHWAITE LAKE THURGOLAND
FOR MR. M. BALL

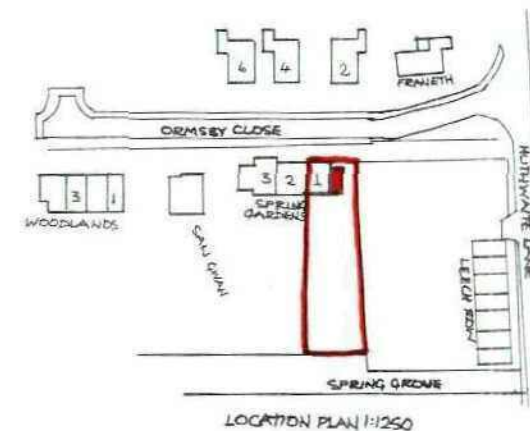
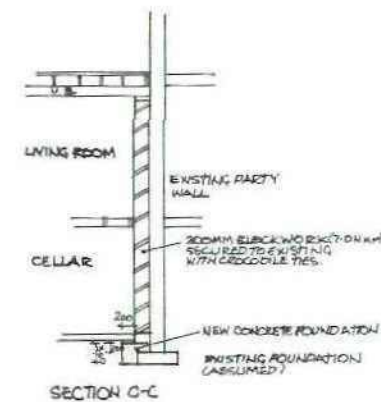
SCALE 1:100



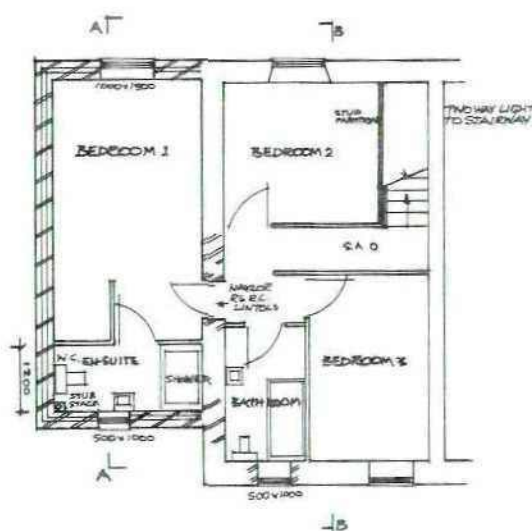
FRONT ELEVATION



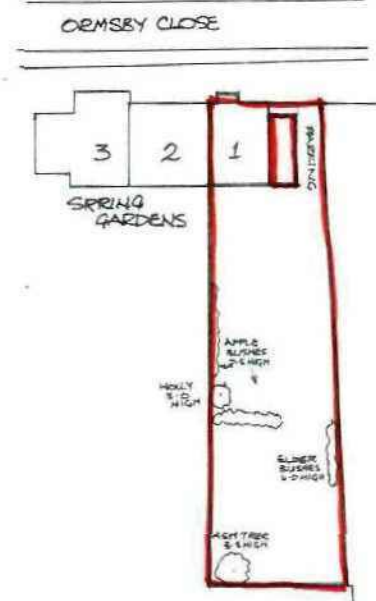
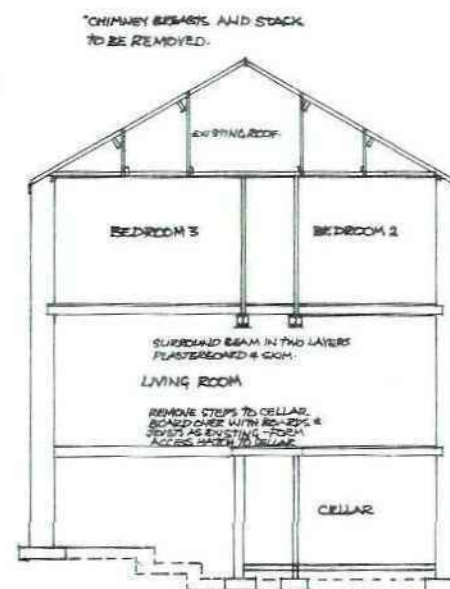
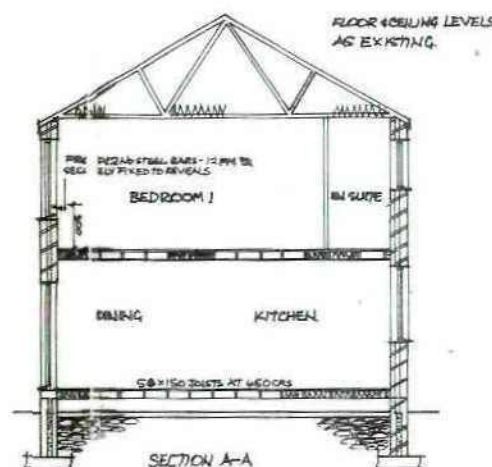
SIDE ELEVATION



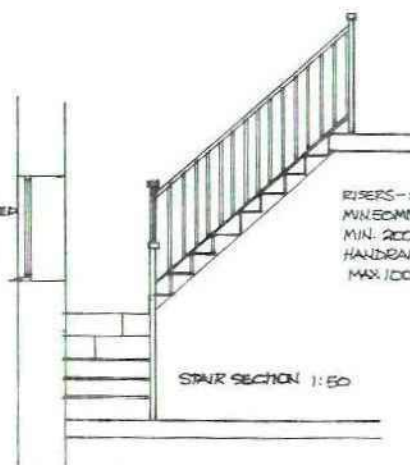
SEE SEPARATE CONSTRUCTION NOTES.



REAR ELEVATION
(TO ORMSBY CLOSE)



Toughened glass,
guarding to be fitted
to window if
required by the
BCD



RISERS - 200MM. TREADS 225MM.
MINIMUM TREADS TO TAPERED STEPS
MIN. 2000 HEADROOM ABOVE PITCH LINE
HANDRAIL 900 ABOVE PITCH LINE
MAX. 100MM GAPS IN GUARDING

BEAMS TO LIVING ROOM - SPAN 8800
WORST CASE IS BEAM NO 1
LOADING - (2.8 x 2.7 x 2) + (8.8 x 4.8 / 2 x 2) = 38.76 kN
M = 38.76 x 3.8 / 8 = 18.4
TRY 203 x 133 x 25 KG U.B. BUILT IN AT ENDS.
L_c = 3800 / 50 = 3960
L_R = 3960 / 10 = 127.4 D_T = 203.2 / 7.8 = 26.1
P_{BC} = 106
F_{BC} = 18.4 x 10⁶ / (231.9 x 10⁶) = 79.34 - OK.
USE 203 x 133 x 25 KG U.B. ON 300 x 200
X 150 DEEP CONCRETE PADSTONES TO BOTH BEAMS