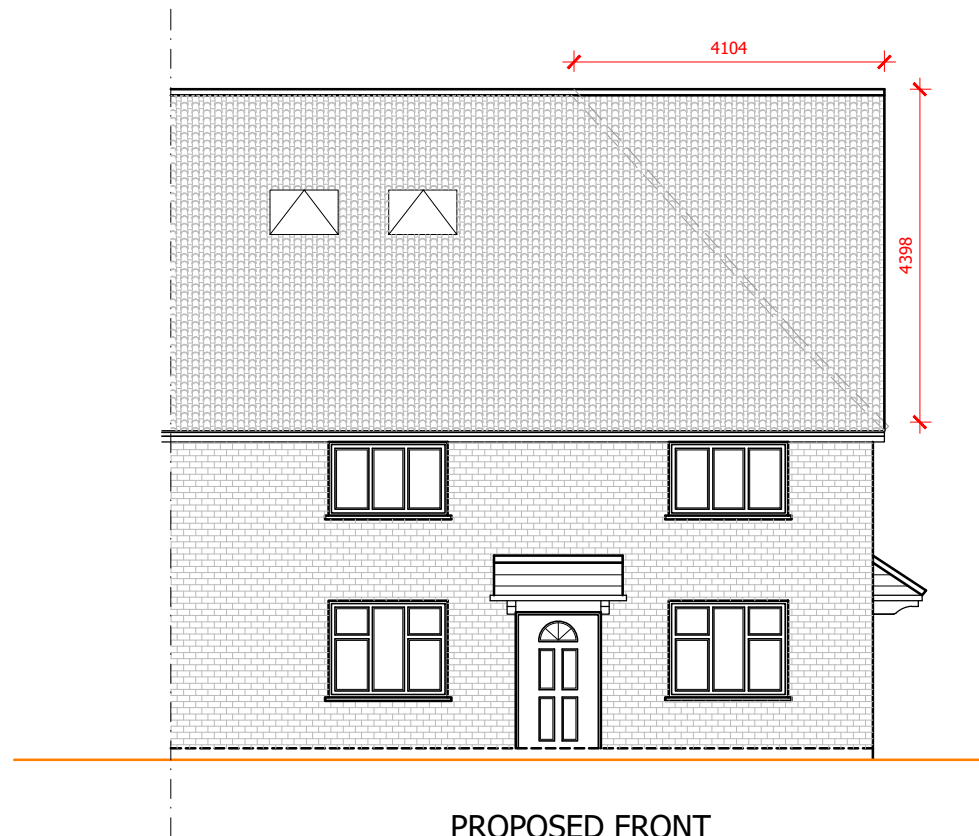
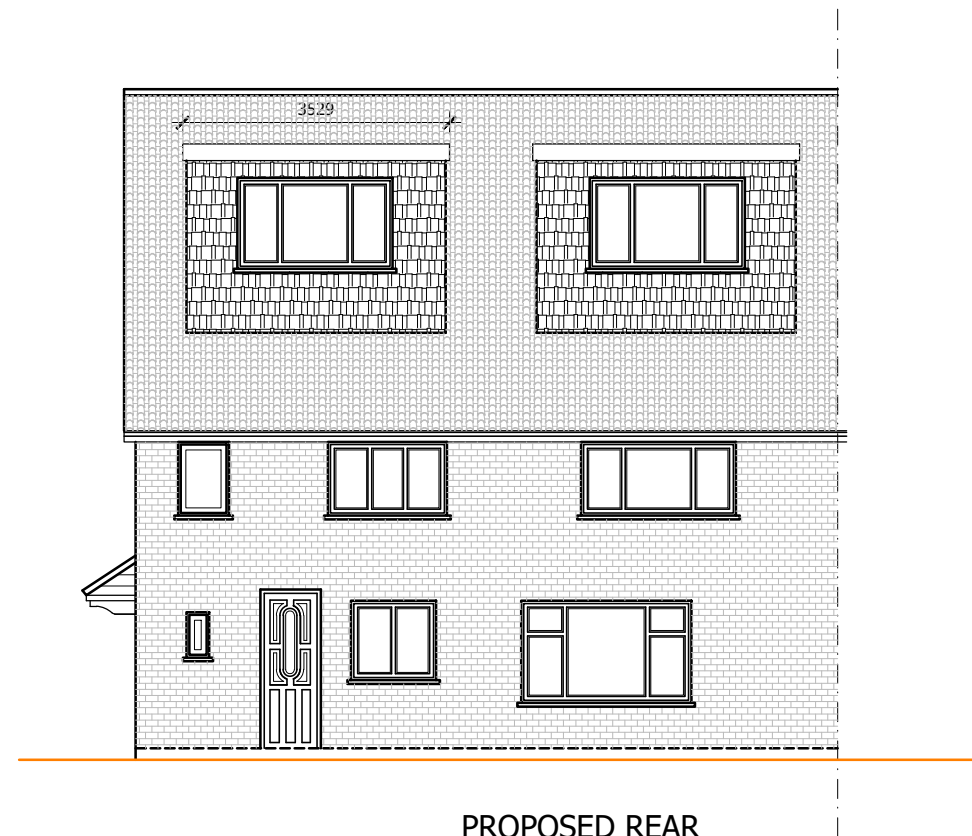




PROPOSED FRONT  
ELEVATION



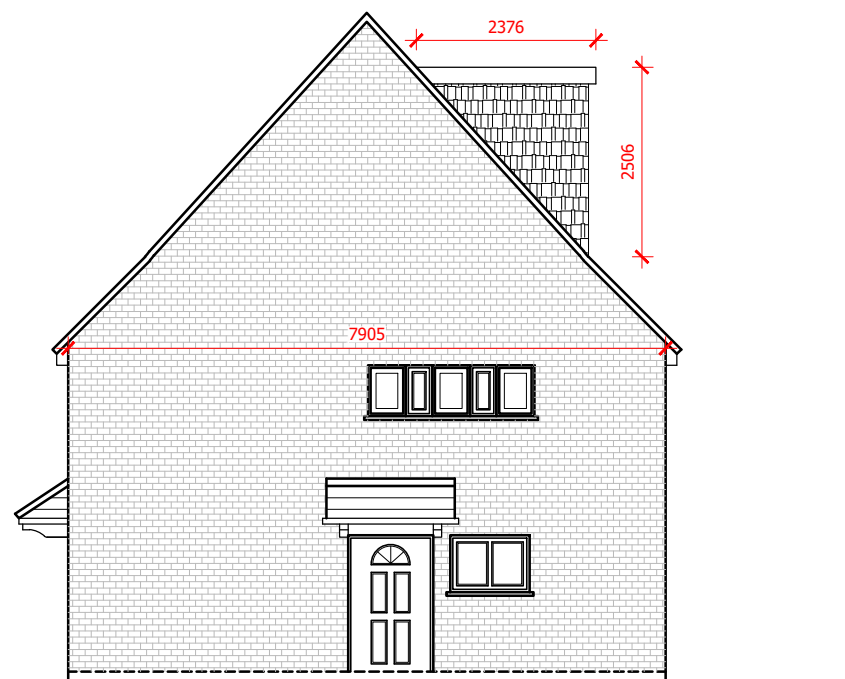
PROPOSED REAR  
ELEVATION

## ROOF VOLUME CALCULATIONS

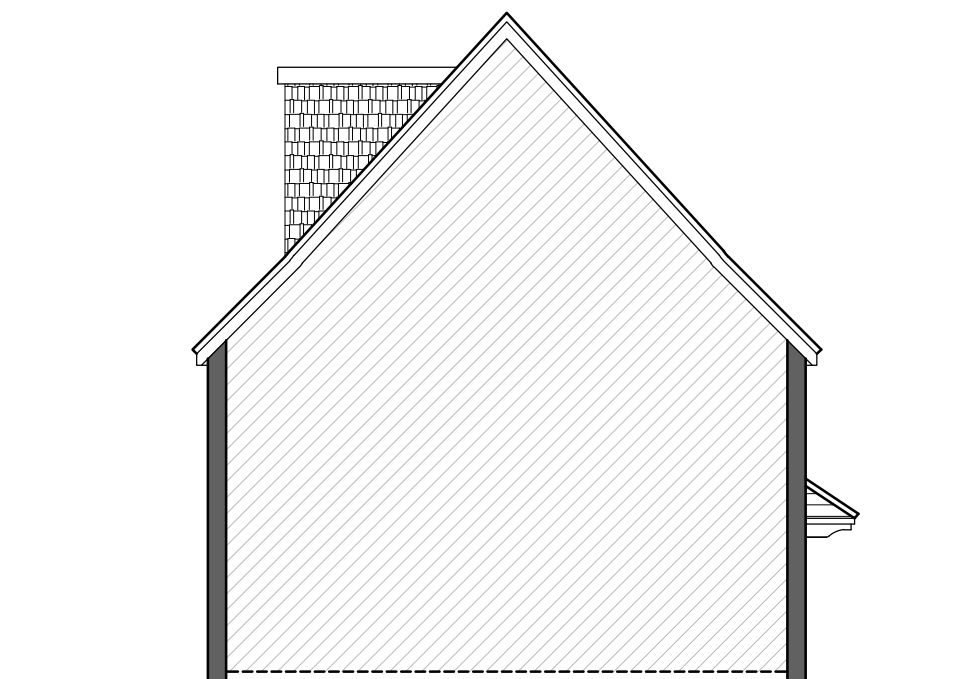
$$\begin{aligned} \text{HIP TO GABLE END} &= V1 \\ &= \frac{1}{6} (L1 \times W1 \times H1) \\ &= \frac{1}{6} (7.90 \times 4.10 \times 4.39) \\ &= \frac{1}{6} (142.19) \text{ M}^3 \\ &= 23.69 \text{ M}^3 \end{aligned}$$

$$\begin{aligned} \text{REAR DORMER} &= V2 \\ &= \frac{1}{2} (L2 \times W2 \times H2) \\ &= \frac{1}{2} (3.52 \times 2.37 \times 2.50) \\ &= \frac{1}{2} (20.85) \\ &= 10.42 \text{ M}^3 \end{aligned}$$

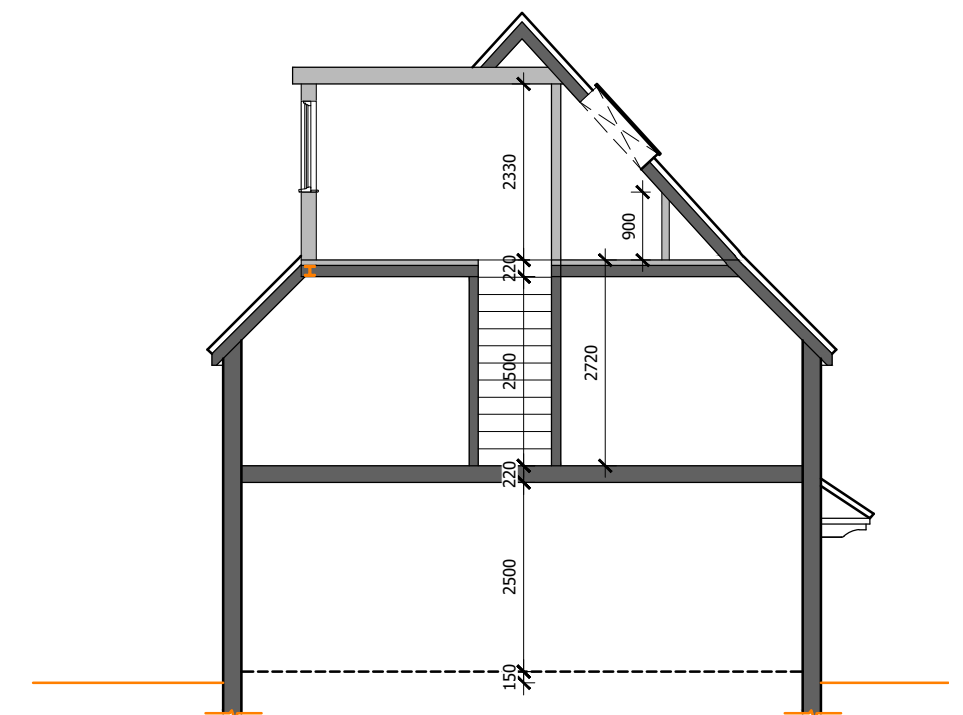
$$\begin{aligned} \text{TOTAL NEW ROOF VOLUME} &= V1 + V2 + V3 \\ &= 14.1 \text{ M}^3 + 10.42 + 10.42 \text{ M}^3 \\ &= 34.92 \text{ M}^3 < 50 \text{ M}^3 \end{aligned}$$



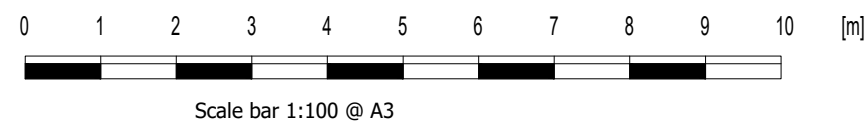
PROPOSED SIDE  
ELEVATION



PROPOSED SIDE  
ELEVATION



PROPOSED SECTION



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Scale 1:100 @ A3

Project  
120 Stanley Grove Manchester M12 5GF

Client

Drawing:  
Proposed Elevations  
Number:  
2022/004/01  
Date:  
January 2022