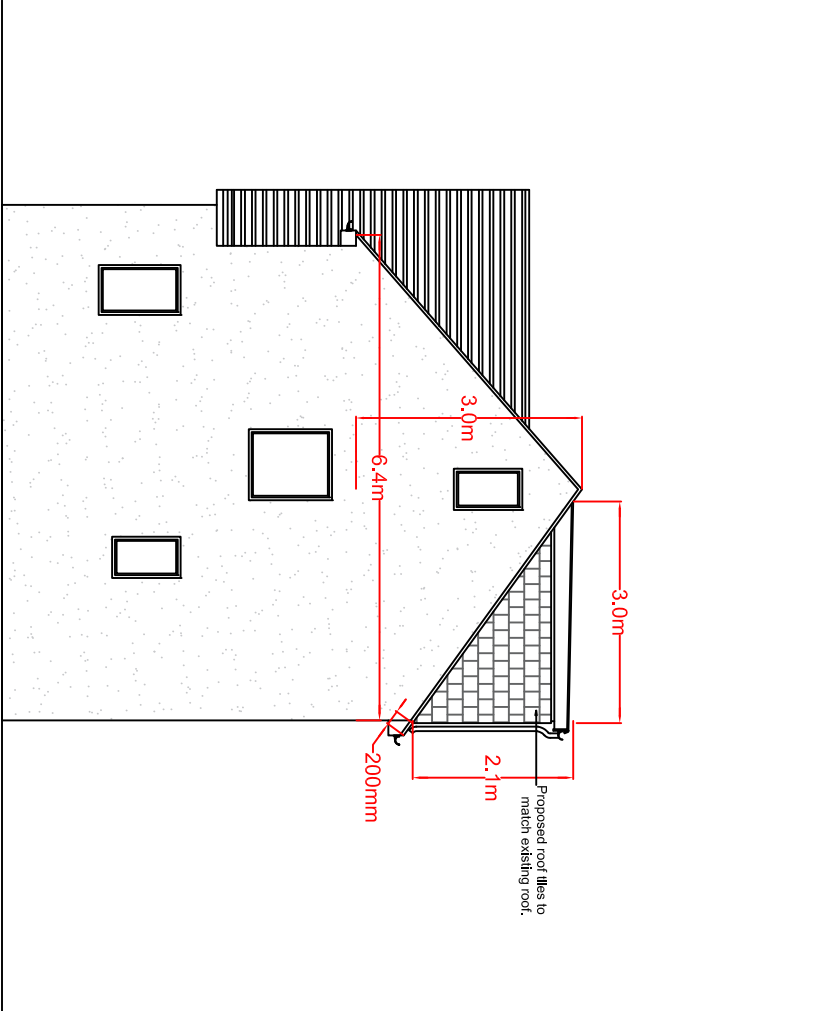
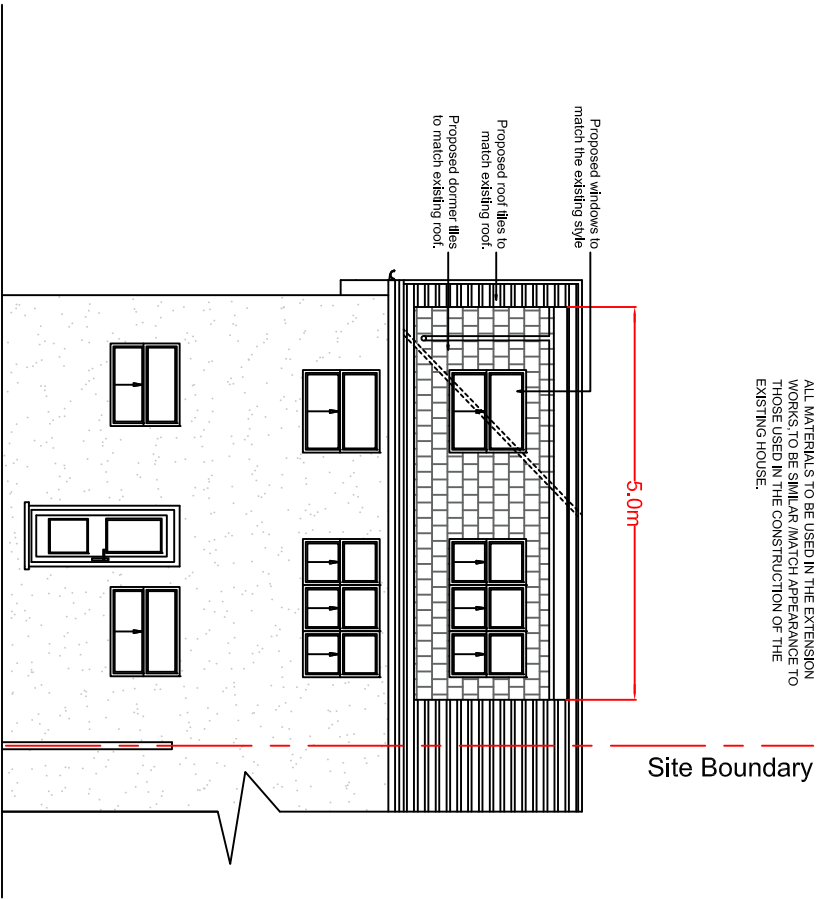


Proposed Front Elevation



Proposed Side Elevation



Proposed Rear Elevation

## Calculation for Hip to Gable Roof Volume

Depth of main roof- (A) 6.4m  
Height of main roof- (B) 3.0m  
Ridge to Eaves in plan- (C) 3.1m

Formula:  $V = \frac{1}{3}$  Base are x Height.

$$V = \frac{1}{3} (6.4 \times 3.1/2) \times 3.0$$
$$3.30 \times 3.0 = 9.92 \text{ m}^3.$$

Total Volume added to the existing roof = **9.92m<sup>3</sup>**

## Volume of additional Dormer

Depth of Dormer- (D) 3.0m  
Height of Dormer - (H) 2.1m  
Length of Dormer - (L) 5.0m

Formula:  $V = \text{Depth} \times \text{Height}/2 \times \text{Length}.$

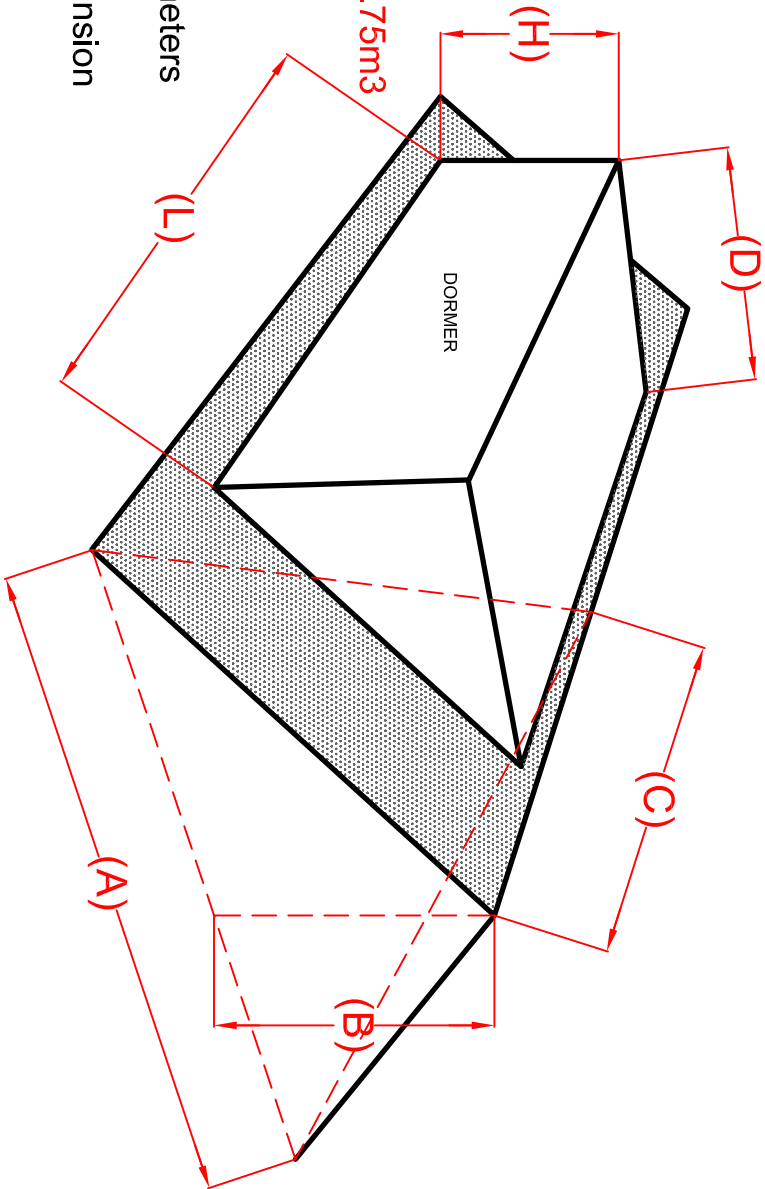
$$V = 3.0 \times 2.1/2 \times 5.0 = 15.75 \text{ m}^3.$$

Total Dormer Volume added to the existing roof = **15.75m<sup>3</sup>**

$$\text{Total Volume} = 9.92\text{m}^3 + 15.75\text{m}^3 = \mathbf{25.67\text{m}^3}$$

In the proposed development added volume to the existing roof is **25.67m<sup>3</sup>** cubic meters, which is within 50 cubic meters limit for a Permitted Development for a semi-detached property that has not been previously extended.

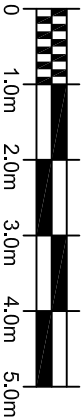
Also any proposed part of the roof alteration is not higher than the highest part of the existing roof. The Dormer extension is set at least 200mm from eaves.



NOTES:

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS.  
ALL DIMENSIONS / LEVELS TO BE CHECKED AND VERIFIED ON SITE BEFORE COMMENCEMENT OF WORK.  
THIS DRAWING IS TO BE USED IN CONJUNCTION WITH PROJECT WORKING DRAWINGS. SPECIFICATIONS, DETAILS AND STRUCTURE DRAWINGS.  
ALL MATERIAL USED IN THE PROPOSED EXTENSION SHOULD MATCH THE EXISTING BUILDING.

1:100  
@ A3



### LAWFUL DEVELOPMENT CERTIFICATE

DRAWING TITLE:  
PROPOSED ELEVATION & VOLUME CALCULATIONS

PROJECT: 4 THORNTON AVENUE, WEST DRAYTON, UB7 9JT

SCALE: 1:100@A3  
DATE: 28/12/2022

DRAWING NUMBER:

GA 2002

REV:

A