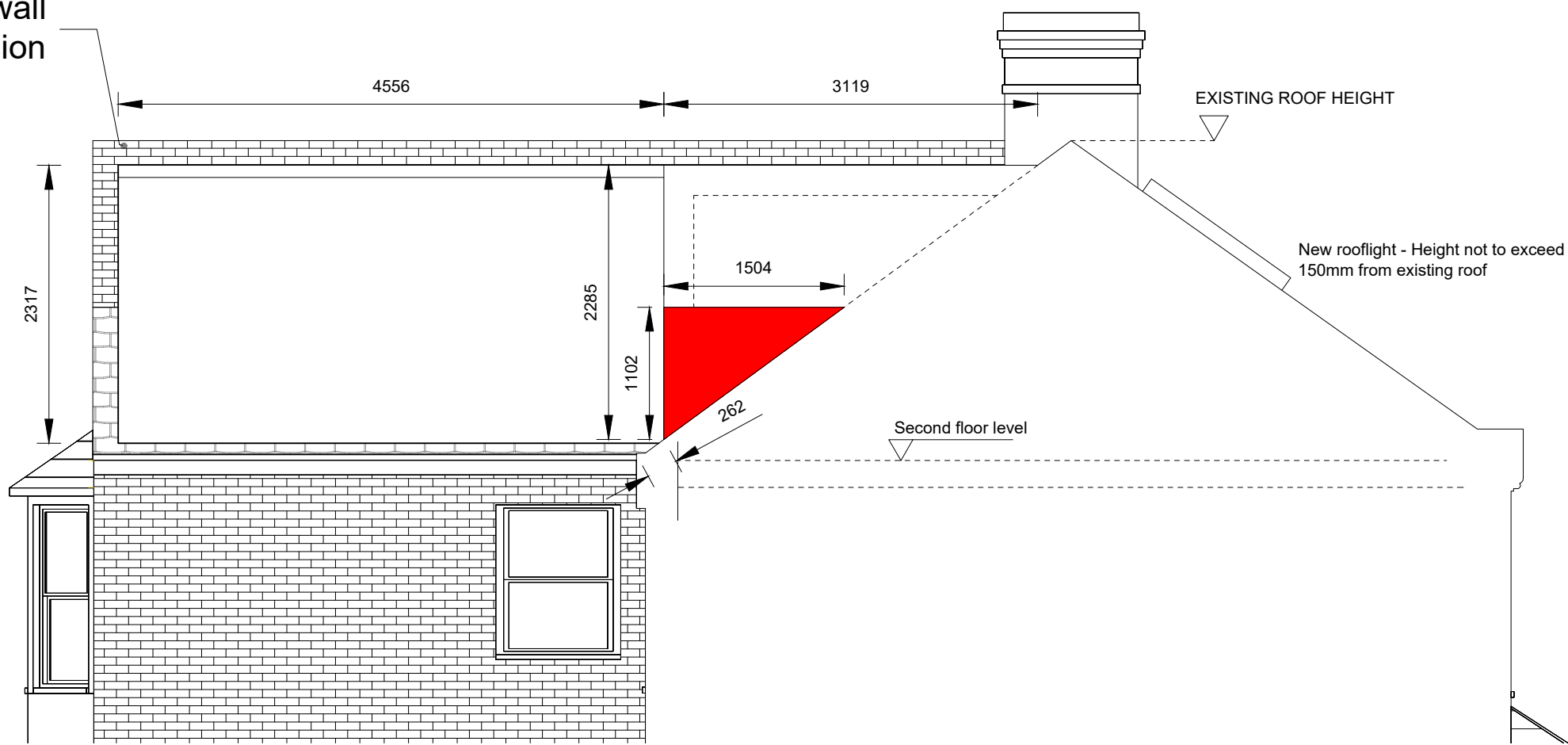
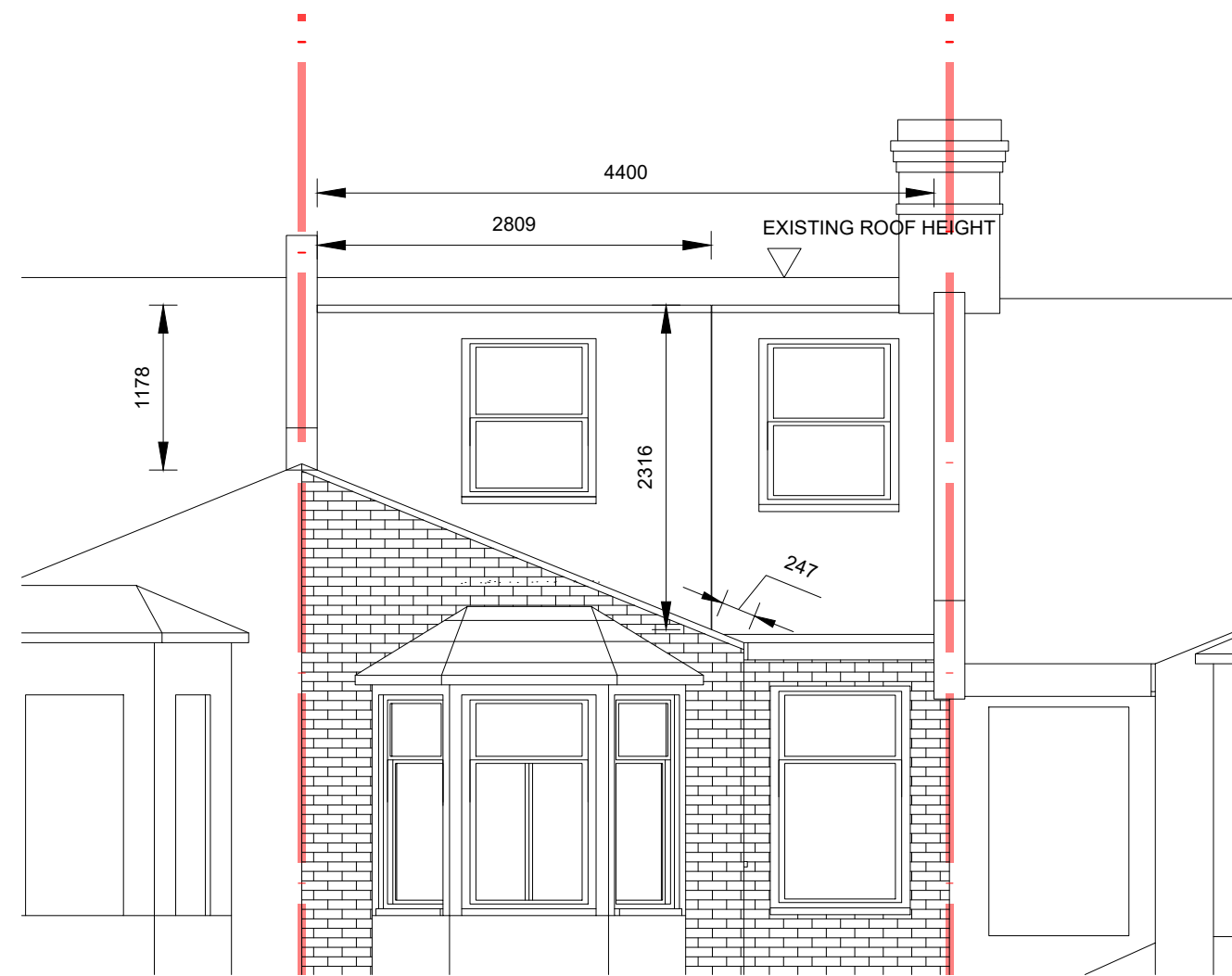


Party wall extension



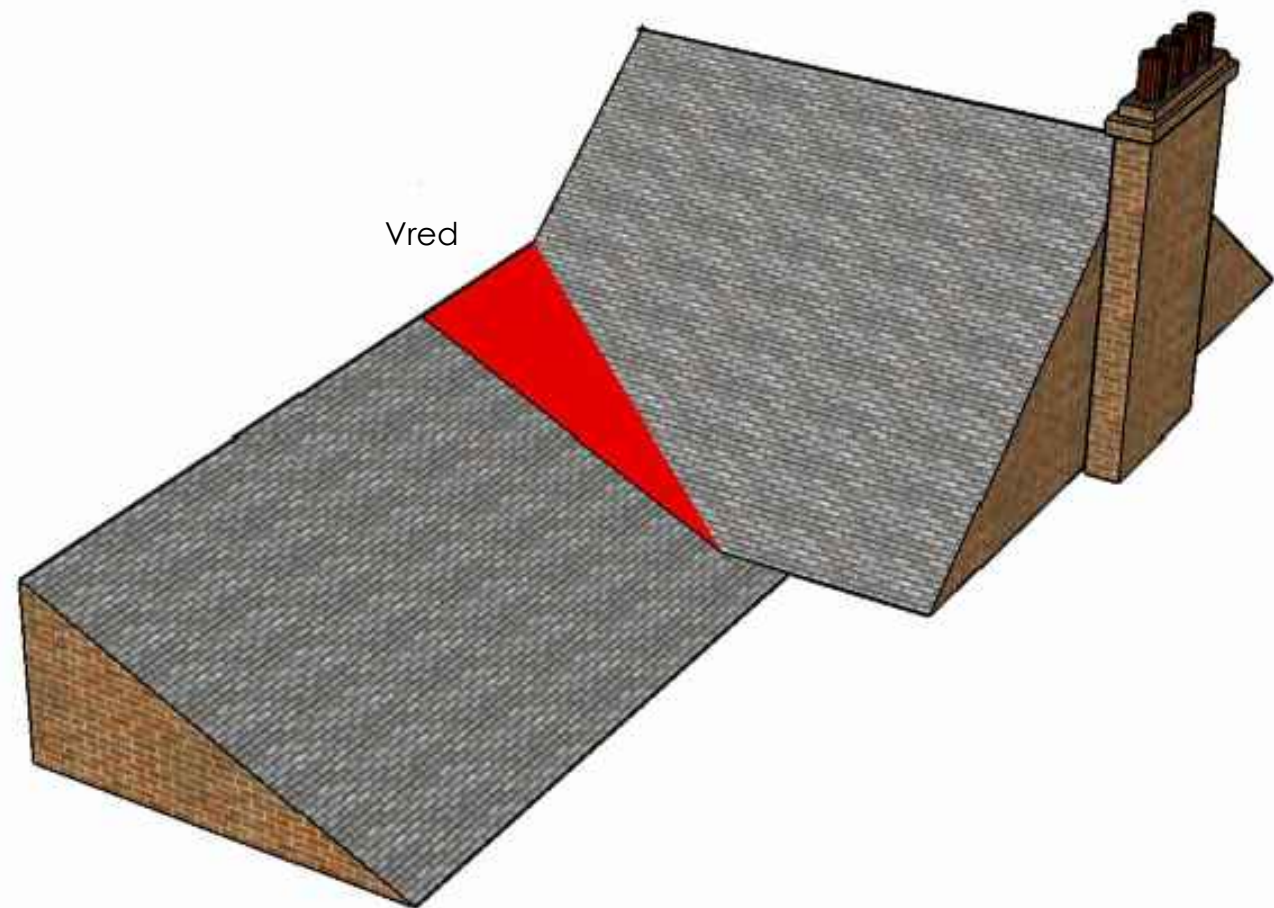
Proposed south elevation and section (extract)

Scale 1:50 @A1

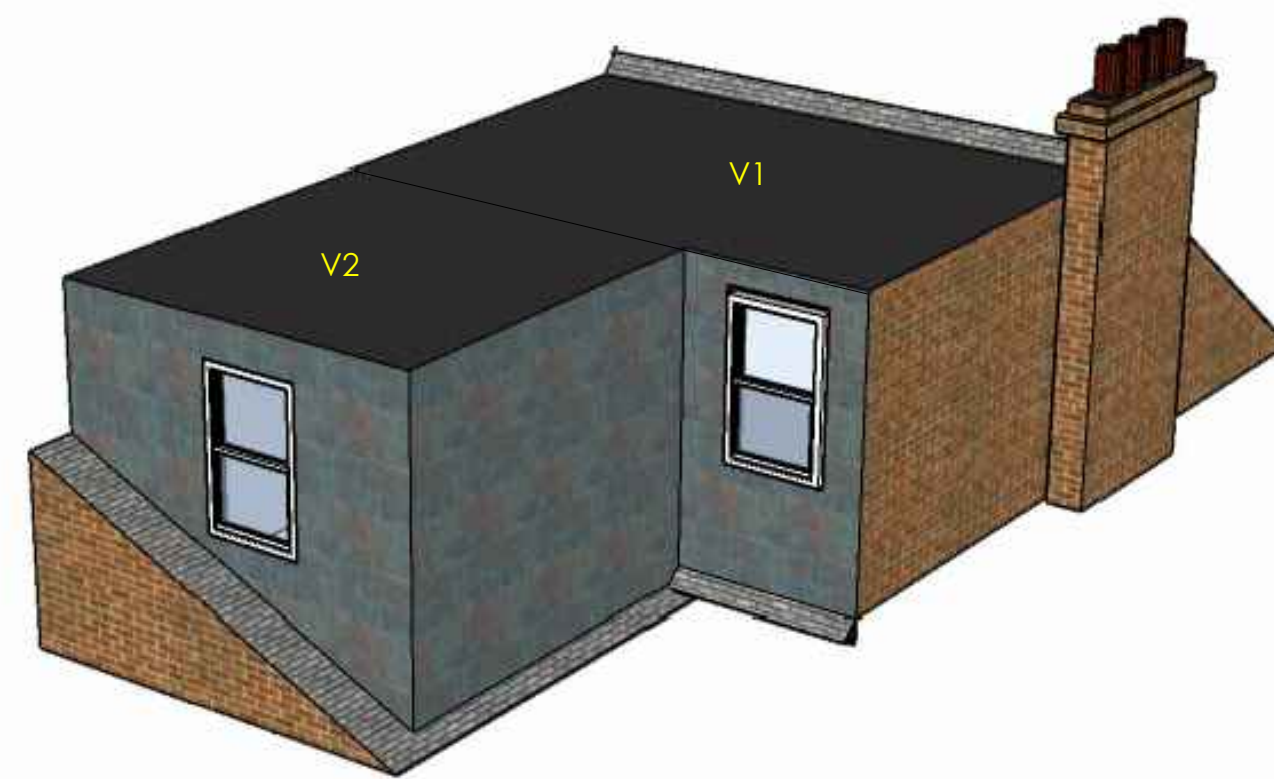


Proposed rear elevation (extract)

Scale 1:50 @A1



Existing roof 3D model



Proposed roof 3D model

Volume of highlighted red area (triangular pyramid)
 $V_{red} = (1.102 \times 1.504 \times 2.809) / 6 = 0.78m^3$

The additional roof volume created must not increase the volume of the original roof space of the house by more than $40m^3$.

ADDITIONAL ROOF VOLUME CALCULATION

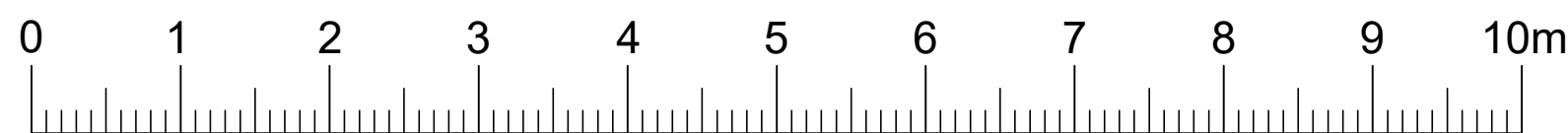
$$V1 = 2.285 \times 3.119 / 2 \times 4.400 = 15.68m^3$$

$$V2 = (1.178 + 2.316) / 2 \times 2.809 \times 4.556 = 22.36m^3$$

Additional roof volume is

$$V_{add} = V1 + V2 - V_{red} = 15.68 + 22.36 - 0.78 = 37.26m^3$$

$$V_{add} < 40m^3 \text{ Condition met}$$



Notes:

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REV:	DESCRIPTION:	BY:	DATE:
STATUS: ISSUED TO CLIENT			



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CLIENT:

SITE:		57 Dunloe Avenue N17 6LB		
TITLE:		Additional roof volume calculation		
SCALE: AT A1: 1:50		DATE: 29/11/2022	DRAWN: RR	CHECKED:
PROJECT NO: 22.57DA		DRAWING NO: PL014A		REVISION: