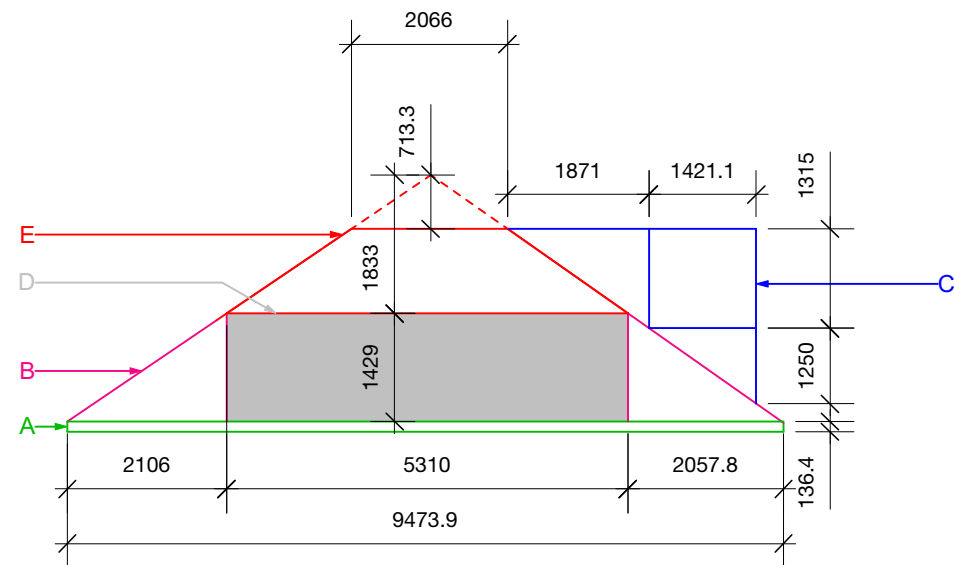
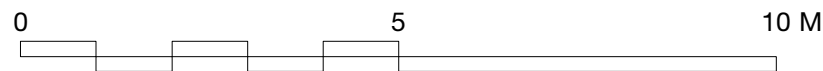




Volume Diagram



Proposed Roof Volumn:

A.
Plinth: $9473.9 \times 6783.4 \times 136.4 = 8.77\text{m}^3$

B.
Front Prism: $0.5(6783.4 \times 1429 \times 2106) = 10.21\text{m}^3$

Rear Prism: $0.5(6783.4 \times 1429 \times 2057.8) = 9.97\text{m}^3$

$10.21\text{m}^3 + 9.97\text{m}^3 = 20.18\text{m}^3$

D.
Rectangle: $6783.4 \times 5310 \times 1429 = 51.47\text{m}^3$

C.
Rear Dormer Prism: $0.5(1421 \times 1250 \times 3555) = 3.16\text{m}^3$

Prism: $0.5(3555 \times 1315 \times 1421) = 3.32\text{m}^3$

Pyramid: $(3555 \times 1315 \times 1871) \div 3 = 2.92\text{m}^3$

$3.16\text{m}^3 + 3.32\text{m}^3 + 2.92\text{m}^3 = 9.4\text{m}^3$

E.
Pyramid-base: $(6783.4 \times 1833.3 \times 5310) \div 3 = 22.01\text{m}^3$

Pyramid-top: $(3479 \times 713.3 \times 2066) \div 3 = 1.71\text{m}^3$

$22.01\text{m}^3 - 1.71\text{m}^3 = 20.30\text{m}^3$

$8.77\text{m}^3 + 20.18\text{m}^3 + 51.47\text{m}^3 + 9.4\text{m}^3 + 20.30\text{m}^3 = 110.12\text{m}^3$

Total roof volumn: 110.12m^3

110.12m^3 (proposed) - 66.01m^3 (existing) = 44.11m^3

NET INCREASE: 44.11m^3

GENERAL NOTES

- This drawing is the copyright of Haines Phillips Architects.
- Do not scale from this drawing. Use figured dimensions only.
- This drawing must not be used for land transfer purposes, or for construction purposes unless accompanied by an Architect's Instruction.

DRAWING ISSUE STATUS

ISSUE	STATUS	COMMENT
P	PRELIMINARY	For comment and review
PL	PLANNING	Planning/Listed Building Application
BR	BUILDING REGS	Building Regs Application
T	TENDER	For pricing purposes only
C	CONSTRUCTION	For procurement & construction
FC	FINAL CONSTRUCTION	Record drawings on completion
L	LEGAL	Conveyancing or other legal purposes

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REV DATE NOTES

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DRAWING TITLE
Roof Calculation
As Proposed

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PL	Aug 2021	1:100@A3
JOB NR	DRAWING NO.	ISSUE REVISION
4218	GA 600	PL