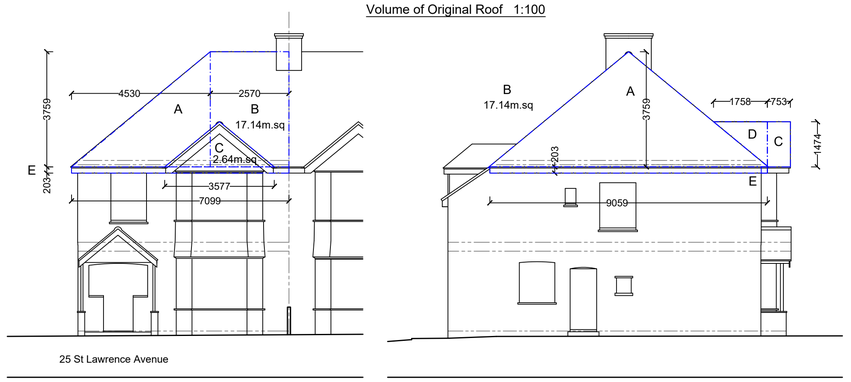
The contractor is responsible for setting out and must check all levels and dimensions prior to work being put in hand.

This drawing may be scaled for planning purposes only. For construction purposes only written dimensions are to be taken in respect of this project.

Rev Date Comment

Volume of Original Roof 1:100



Volume of Original Roof

Volume of A =
V= LWH =
3
4.53m x 9.06m x 3.76m = 154.26m.cu divided by 3 = 51.44m.cu
3

Volume of B =
Area x Length =
17.14m.sq x 2.57m = 44.05m.cu

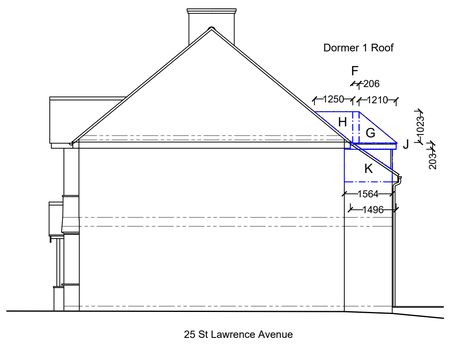
Volume of C =
Area x Length =
2.64m.sq x 0.75m = 1.98m.cu

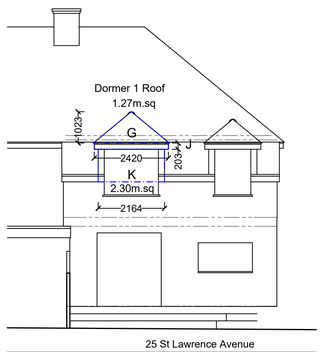
Volume of D =
V= LWH =
3
1.76m x 3.58m x 1.47m = 9.26m.cu divided by 3 = 3.09m.cu
3

Volume of E (Eaves) =
Length x Width x Height =
7.10m x 9.06m x 0.20m = 12.87m.cu

Total Volume of Original Roof = 113.43m.cu

Previous Extension to Original Roof - Volume of Pitched Dormer 1 1:100





Volume of Pitched Dormer 1

Volume of F =
Area x Length =
1.27m.sq x 0.21m = 0.27m.cu

Volume of G =
V= LWH =
3
1.21m x 2.42m x 1.02m = 2.99m.cu divided by 3 = 0.99m.cu
3

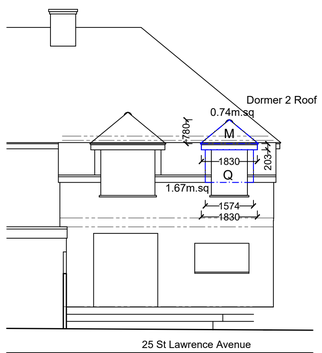
Volume of H =
V= LWH =
3
1.25m x 2.42m x 1.02m = 3.09m.cu divided by 3 = 1.03m.cu
3

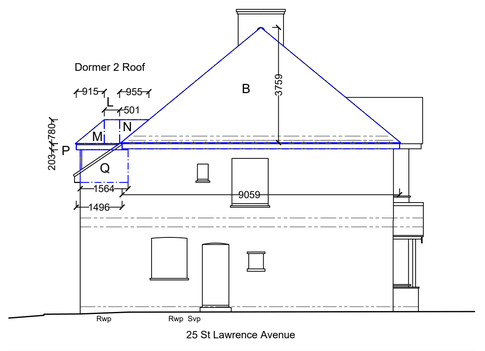
Volume of J (Eaves) =
Length x Width x Height =
1.50m x 2.42m x 0.20m = 0.73m.cu

Volume of K (Dormer) =
Area x Length =
2.30m.sq x 1.56m = 3.59m.cu

Total Volume of Dormer 1 = 6.61m.cu

Previous Extension to Original Roof - Volume of Pitched Dormer 2 1:100





Volume of Pitched Dormer 2

Volume of L =
Area x Length =
0.74m.sq x 0.50m = 0.37m.cu

Volume of M =
V= LWH =
3
0.92m x 1.83m x 0.78m = 1.31m.cu divided by 3 = 0.44m.cu
3

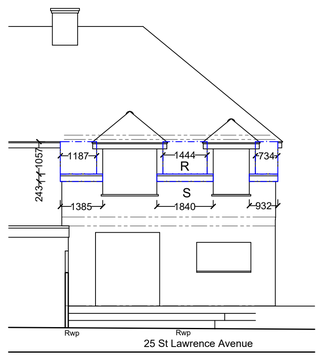
Volume of N =
V= LWH =
3
0.96m x 1.83m x 0.78m = 1.37m.cu divided by 3 = 0.46m.cu
3

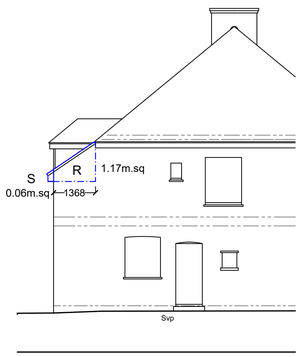
Volume of P (Eaves) =
Length x Width x Height =
1.50m x 1.83m x 0.20m = 0.55m.cu

Volume of Q (Dormer) =
Area x Length =
1.67m.sq x 1.56m = 2.60m.cu

Total Volume of Dormer 2 = 4.42m.cu

Previous Extension to Original Roof - Volume of Pitched Roof Extension to Existing Roof 1:100





Volume of Extended Pitched Roof

Volume of R (Extended Pitched Roof) =
Area x Length =
1.17m.sq x 3.36m (1.19m + 1.44m + 0.73m) = 3.93m.cu

Volume of S (Extended Roof Eaves) =
Area x Length =
0.06 x 4.16 (1.39 + 1.84 + 0.93) = 0.25m.cu

Total Volume of Extended Pitched Roof = 4.18m.cu

Volume of Proposed Rear Dormer

Volume of T (Proposed Rear Dormer):
Area 2.09m.sq x 3.70m maximum = 7.73m.cu

Volume of Pitched Side Dormer

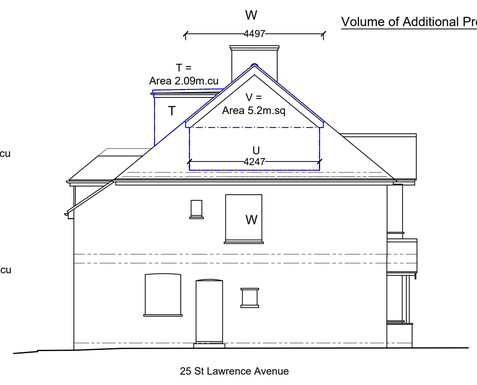
Volume of U:
V= LWH =
3
1.69m x 4.25m x 1.40m = 10.05m.cu divided by 3 = 3.35m.cu
3

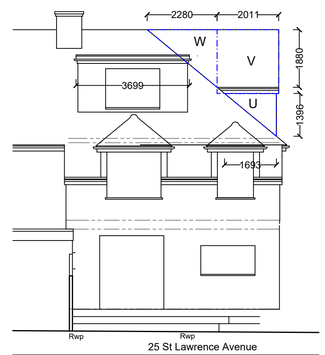
Volume of V:
Area 5.20 x 2.01m.cu = 10.45m.cu

Volume of W:
V= LWH =
3
2.28m x 4.50m x 1.88m = 19.29m.cu divided by 3 = 6.43m.cu
3

Total Volume of Side Dormer = 20.23m.cu

Volume of Additional Proposed Roof 1:100





Total Volume of Previously Extended Roof & Dormers
6.61m.cu - Dormer 1
4.42m.cu - Dormer 2
4.18m.cu - Extended Pitched Roof
Previous Roof Extensions Volume = 15.21m.cu

Total Proposed Additional Roof Volume =
7.73m.cu (Rear Dormer) + 20.23m.cu (Side Dormer) = 27.96m.cu

Existing Previous Roof Extensions + Proposed Extensions
15.21m.cu + 27.96m.sq maximum = 43.17m.cu

Total Proposed Additional Volume = 43.17m.cu maximum

0 1 2 3 4 5 6 7 8 9 10
Metres 1:100 Scale Bar

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Project:-
Application for Lawful Development Certificate for Proposed Internal Alterations & Loft Conversion at 25 St Lawrence Avenue, Worthing.

Client:-
Mr & Mrs Martin

Address:-
25 St Lawrence Avenue, Worthing, West Sussex, BN14 7JG.

Drawing Title:-
Loft Conversion - Volume Calculations

Scale:-
1:1250 / 1:500 / 1:100 @ A1

Date:-
June 2023

Drawing No:-
1472 / VC01

Rev:-