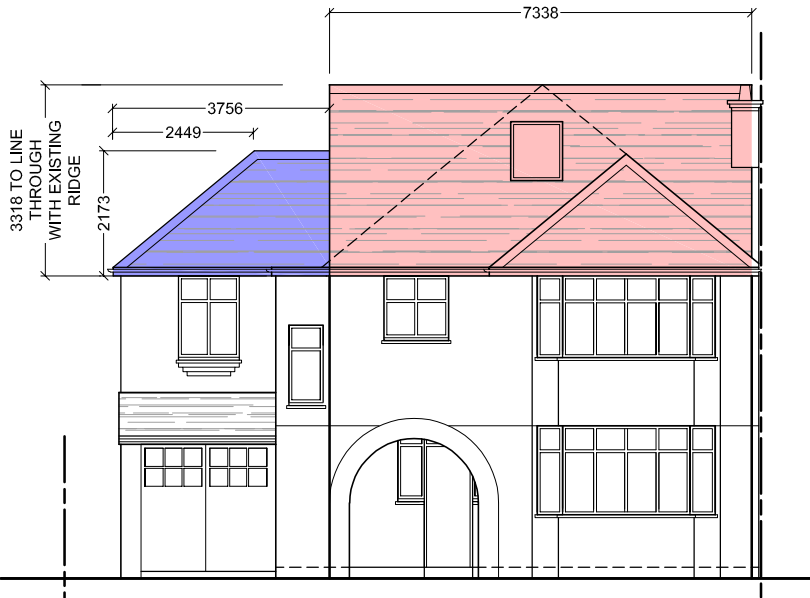# PROPOSED ROOF
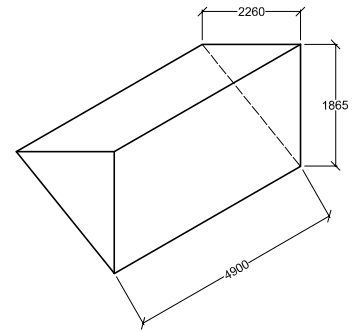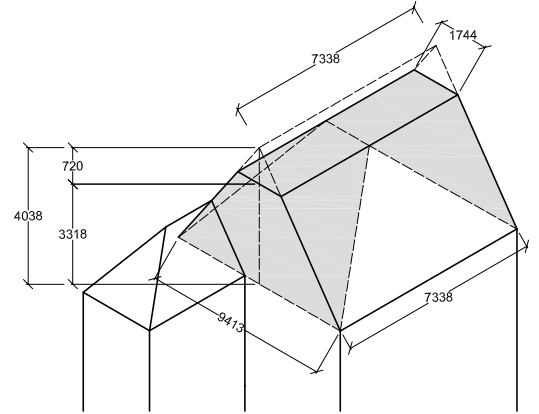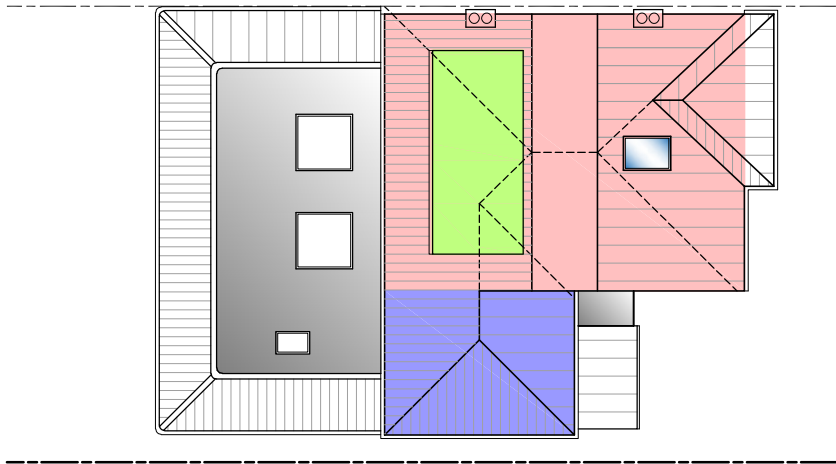# VOLUME CALCULATIONS

MAIN SECTION OF ROOF WITH HIP TO
GABLE CHANGES HIGHLIGHTED IN RED

$7.338 \times 4.038 \times (9.413 / 2) = 139.46m^3$

-

$7.338 \times 0.720 \times (1.744 / 2) = 4.6m^3$

= 134.86m³
+
REAR DORMER ROOF IN GREEN

= 10.33m³
+

REMAINING SIDE SECTION OF ROOF
HIGHLIGHTED IN BLUE

$3.756 \times 2.173 \times (4.898 / 2) = 19.98m^3$

-

$(2.449 \times 2.173 \times 4.898) / 6) = 4.34m^3$

=15.64m³

TOTAL VOLUME
160.83 m³

VOLUME INCREASE
160.83 - 110.87 = 49.96m³
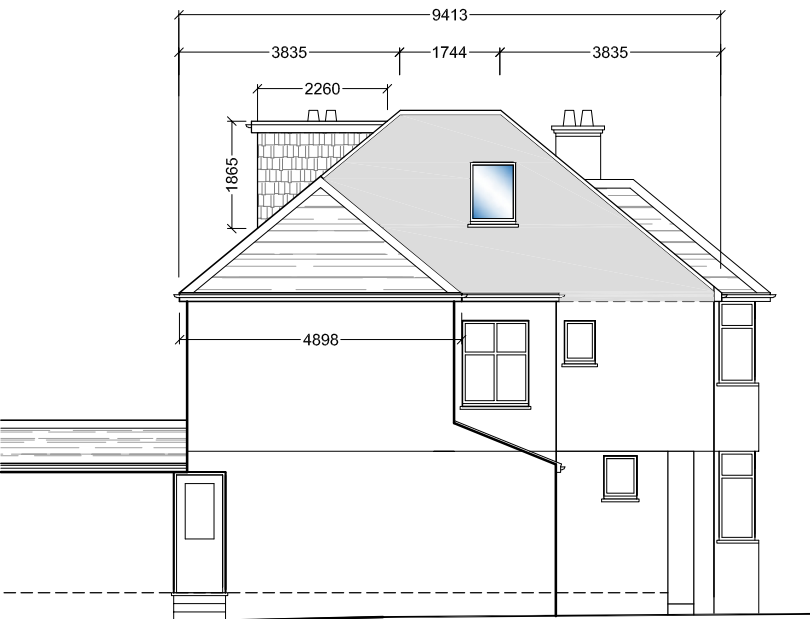
SECTION OF ROOF ABOVE FRONT BAY WINDOW NOT INCLUDED IN CALCULATIONS