

EXISTING VOLUME



CROSS SECTIONAL AREA TAKEN
FROM COMPUTER MODEL = 63.87 m^2

$$L^1 = 3.75 \text{ m}$$

$$L^2 = 3.899 \text{ m}$$

$$L^1 + L^2 = 7.65 \text{ m}$$

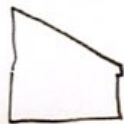
$$\text{Vol} = 7.65 \text{ m} \times 63.87 \text{ m}^2 = \underline{488.6 \text{ m}^3}$$



CROSS SECTIONAL AREA TAKEN
FROM COMPUTER MODEL = 82.7 m^2

$$L = 4.163 \text{ m}$$

$$\text{Vol} = 4.163 \text{ m} \times 82.7 \text{ m}^2 = \underline{344.28 \text{ m}^3}$$



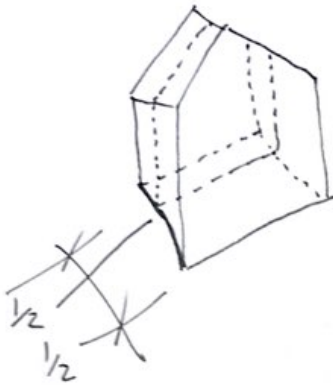
CROSS SECTIONAL AREA TAKEN
FROM COMPUTER MODEL = 15.34 m^2

$$L = 9.187 \text{ m}$$

$$\text{Vol} = 9.187 \text{ m} \times 15.34 \text{ m}^2 = \underline{140.92 \text{ m}^3}$$

$$\underline{\underline{\text{TOTAL EXISTING VOL} = 973.8 \text{ m}^3}}$$

Additional Vol



CROSS SECTIONAL AREA
TAKEN FROM COMPUTER MODEL
AT HALF DEPTH OF LEANTO ROOF

$$= 32.87 \text{ m}^2$$

$$L = 4.859 \text{ m}$$

$$\text{Vol} = 4.859 \text{ m} \times 32.87 \text{ m}^2 = \underline{\underline{159.71 \text{ m}^3}}$$

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$$\text{EXISTING VOLUME} = 973.8 \text{ m}^3$$

$$\text{ADDITIONAL VOLUME} = 159.71 \text{ m}^3$$

$$\therefore \text{ INCREASE IN VOL} = \left(\frac{159.71}{973.8} \times 100 \right)$$
$$= \underline{\underline{16.4 \%}}$$