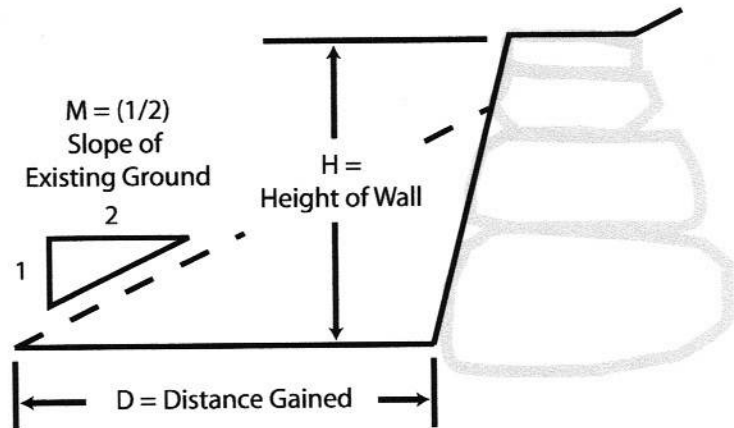


Formula for calculating the height of a rock retaining wall built into an existing 2:1 backslope, given the desired distance to be gained.

$$H = \frac{4D + 6}{7}$$



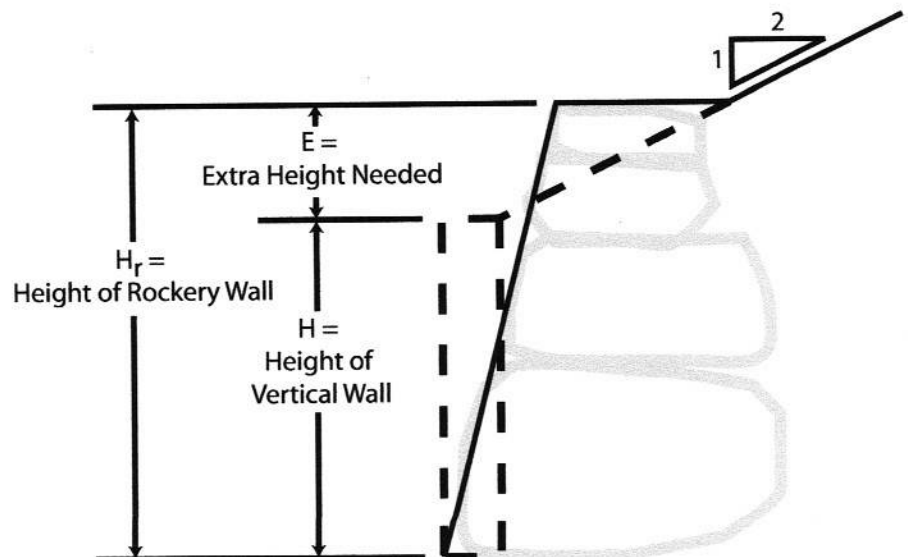
For a variable backslope use:  $H = \frac{4M(D + 1.5)}{4 - M}$  where  $M =$  backslope (rise/run)

Formula for calculating the extra height needed to replace a 6" wide, vertical masonry wall with a rock retaining wall (batter of 1:4) with a 2:1 backslope.

$$E = \frac{H + 4}{7}$$

and

$$H_r = H + E$$



For a variable backslope use:  $E = \frac{M(H+4)}{4 - M}$  where  $M =$  backslope (rise/run)