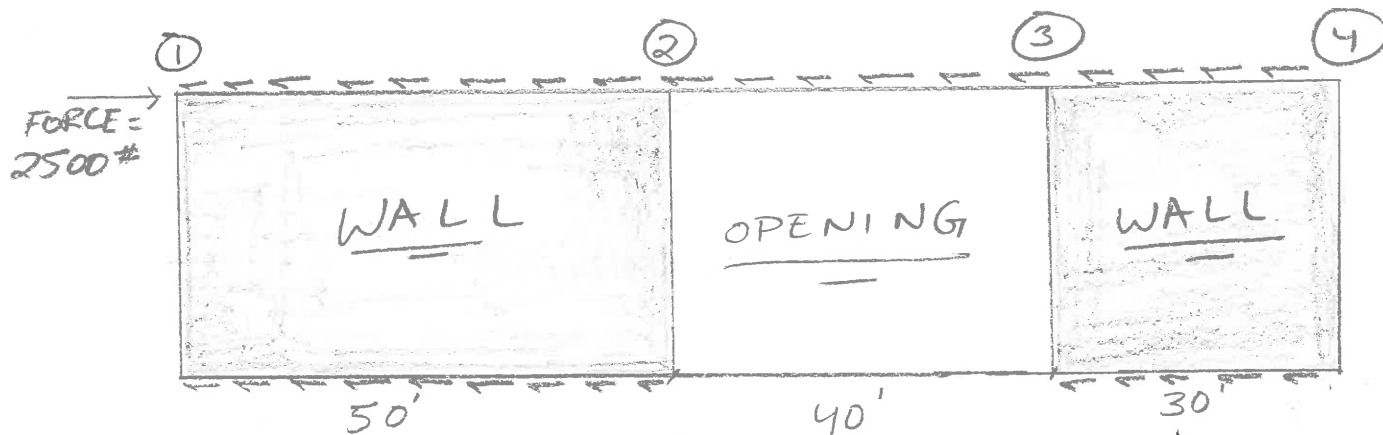


# WALL 1



TOTAL WALL LENGTH = 120'

FORCE PER UNIT LENGTH ALONG THE TOP OF WALL =  $\frac{12000\#}{120'} = 100\#/'$

FORCE PER UNIT LENGTH ALONG THE BOTTOM OF WALL =  $\frac{12000\#}{(50'+30')} = 150\#/'$

COLLECTOR FORCE AT:

POINT ① = 0#

POINT ② =  $(100 - 150)50 = -2500\#$

" ③ =  $-2500 + (100 \times 40) = 1500\#$

" ④ =  $1500 + (100 - 150)30 = 0\#$

MAX COLLECTOR FORCE =  $2500\#$