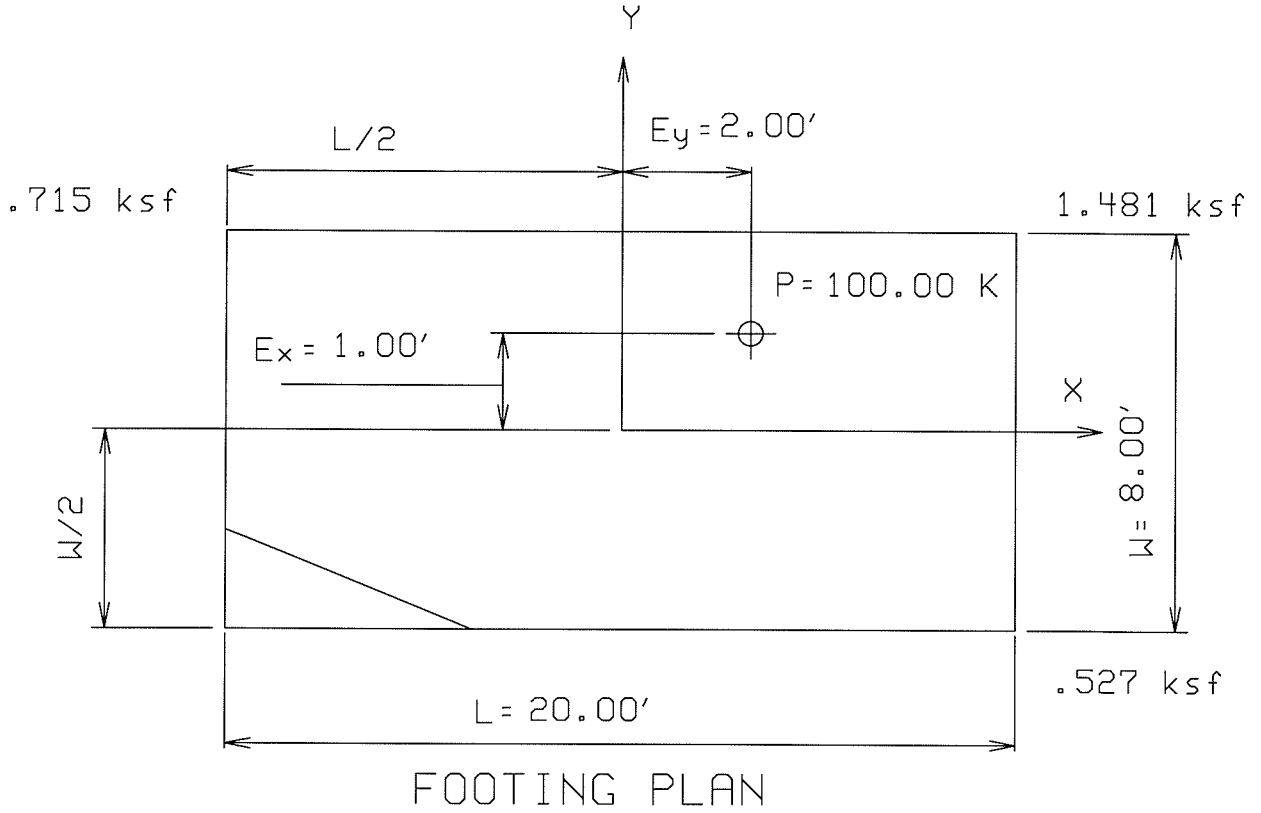


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FOOTING PRESSURE CALCULATION:

Loading:



Solution:

Left edge zero point at 1.993 ft from bottom
 Bottom edge zero point at 6.207 ft from left side

Section properties of area in contact:

A= 153.81, Ix= 780.38, Iy= 4915.4 Ixy= -168.07
 C.G. at Xc= 10.31, Yc= 4.13 (measured from bottom left corner)

Moments resolved about C.G.:

Mx= (4.00 + 1.00 - 4.13) * 100.00 k= 86.58 k'
 My= (10.00 + 2.00 - 10.31) * 100.00 k= 168.10 k'

Area in contact is non-prismatic, therefore the following equations apply:

$q = P / A + [M_x * (I_y * Y - I_{xy} * X) + M_y * (I_x * X - I_{xy} * Y)] / B$
 where $B = I_x * I_y - I_{xy}^2 = 3807665.25$

qtl= $100.00 / 153.81 + [86.58 * (4915.41 * (3.86) - -168.07 * (-10.31))$
 $+ 168.10 * (780.38 * -10.31 - -168.07 * 3)] / 3807665.25 = .715 \text{ ksf}$
 qtr= $100.00 / 153.81 + [86.58 * (4915.41 * (3.86) - -168.07 * (9.68))$
 $+ 168.10 * (780.38 * 9.68 - -168.07 * 3)] / 3807665.25 = 1.481 \text{ ksf}$
 qbr= $100.00 / 153.81 + [86.58 * (4915.41 * (-4.13) - -168.07 * (9.68))$
 $+ 168.10 * (780.38 * 9.68 - -168.07 * -4)] / 3807665.25 = .527 \text{ ksf}$