

A Treated So. Yel. Pine
 32.34 Mid. Cir. (field measure)
 17.4 cu. ft. x 53#/cu. ft. = 922.2 lbs

$$P = \frac{3wh}{s + 0.35} \times \frac{w}{w + m}$$

$$W = 4990 \div 2000 = 2.49 \text{ tons}$$

$$= \frac{(3)(2.49)(5)}{s + 0.35} \times \frac{2.49}{3.31}$$

$$M = \frac{922.2 + 730}{2000} = 0.82 \text{ tons}$$

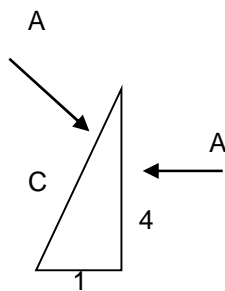
$$= \frac{28.01}{s + 0.35} \text{ Straightpiles}$$

$$W + M = 2.49 + 0.82 = 3.31 \text{ tons}$$

$$H = 5$$

$$S = \text{Avg Pen} / 5 \text{ blows}$$

B



$$\text{sine } A = \frac{1}{4.1231} = .24254$$

$$\begin{aligned} \text{Batter Factor (1:4)} &= \text{cosine } A - (f \text{ sine } A) & f &= 0.10 \\ &= 0.97014 - (0.10)(0.24254) \\ &= 0.94589 \end{aligned}$$

C

$$p = \frac{28.01}{s + 0.35} \times 0.94589$$

$$= \frac{26.49}{s + 0.35} \text{ Batter 1:4}$$

D

Required bearing 28 Tons

Batter 1:4

s=?

$$28 = \frac{26.49}{s + 0.35}$$

$$s + 0.35 = \frac{26.49}{28}$$

$$s = \frac{26.49}{28} - 0.35 = 0.596 \text{ per blow} \times 5 = 2.98 \text{ blows}$$

Note: This procedure shows maximum penetration to obtain plan formula bearing. Use actual penetration in the formula to get formula bearing.

Only data in A & C above, if applicable, needs to be shown on the back side of the Log of Piling.