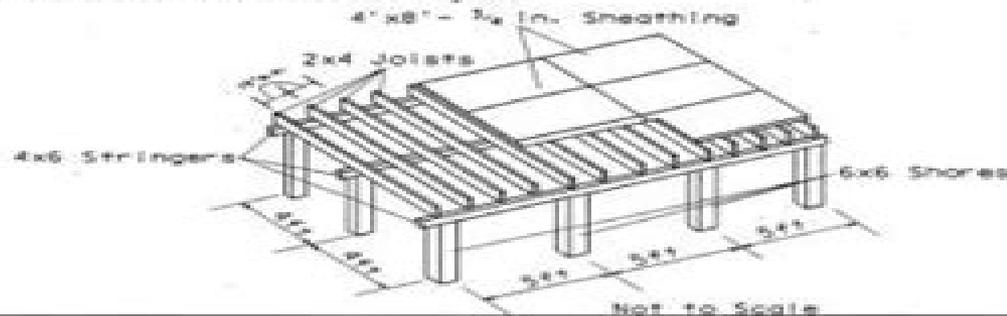


The following information is to be used for problems PE#1-1 to 2

The timber formwork and shoring support for a cast-in-place concrete slab is shown below. The 7 in concrete slab is placed on the $\frac{3}{4}$ in plywood that is supported by 2x4 (actual size 1.5" x 3.5") joists spaced 15 in. o.c. Stringers 4x6 are spaced @48 in. apart. The shores directly under the stringers are 6x6 and are spaced @ 5 ft intervals along the stringers. The concrete weighs 145 pcf and a construction live load of 20 psf. Assume the dead load is 3 psf.

**PE Exam #1-1**

Find: The maximum bending on the joists is most nearly:

- (A) 200.00 lb-ft
- (B) 269.00 lb-ft
- (C) 299.80 lb-ft
- (D) 349.00 lb-ft

Solution: Interior joists are the critical ones because the tributary area will be the largest. The tributary area for an interior joist = 15" x 8". The loads on an interior joist is the summation of:

$$\begin{aligned} W_{\text{concrete}} &= 145 \text{ pcf} \times 7" / (12" / \text{ft}) = 84.58 \text{ psf} \\ \text{Construction LL} &= 20 \text{ psf} \\ \text{Dead load} &= 3 \text{ psf} \\ \Sigma &= 107.58 \text{ psf} \end{aligned}$$

The tributary width of an interior joist is 15". The load per joist = (107.58 psf) x 15" / (12" / ft) = 134.48 plf. Using the "Beam Diagrams and Formula" in the Steel Manual, the maximum bending moment will be at the center support (middle stringer) and its magnitude equals:

$$M_{\text{max}} = -\frac{wl^2}{8} = -\frac{134.48 \times (4')^2}{8} = 268.96 \text{ lb-ft}$$

Answer: (B) ◀

PE Exam #1-2

Find: The maximum bending stress on the joists is most nearly:

- (A) 880 psi
- (B) 980 psi
- (C) 1025 psi
- (D) 1055 psi

Solution: An interior joist is a continuous two equal spans beam.

$$\sigma_{\text{max}} = \frac{MC}{I} = \frac{268.96 \text{ lb-ft} \times (12' / \text{ft}) \times (3.5' / 2)}{(1.5')(3.5')^3 / 12} = 1053.88 \text{ psi}$$

Answer: (D) ◀

Am Civil Pe Problems

Padhraic Smyth



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