Problem 1: (Similar to Example Problem 12-3)

Design the formwork for a 10 ft high wall. The concrete is to be placed at a rate of 5 ft/hr and will be internally vibrated. Concrete temperature is expected to be 70 deg. F. The maximum deflection for bending members is taken as 1/360 of the span. Use ¾” class I plyform for the sheathing and #2 Douglas-fir-larch for the rest of the lumber. Assume all bending members to be supported on three or more spans.

The following conditioned for design have been established:
1. Studs and wales are to be designed based on adequate lateral supports.
2. Studs, wales, and bracing are to be used under dry service condition.
3. The formwork will be used one time for short duration.