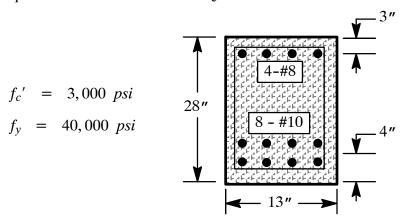
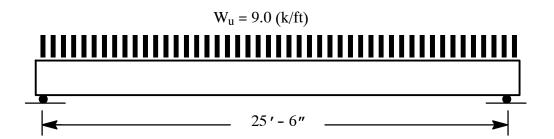
CIVL 4135 HOMEWORK SET 9

1. Select the spacing of U-shaped stirrups made of No. 3 bars for the beam shown below. Use Eq. 11-5 of ACI 318 to obtain V_c .





CIVL 4135 HOMEWORK SET 9

2. Determine the spacing of vertical U-shaped stirrups made of No. 3 deformed bars at point 6.0 ft from the face of the support for the cantilever beam shown below. Use Equation 11-5 of ACI 318 to determine V_c. The loads shown are service loads (load factors have not been applied). The concentrated load is a dead load. Compare the calculations with the maximum spacing.

