Problem 6.036

I did not model the girders in Robot so the shear doesn’t have an angled line from B to C.

Shear in BC

Moment at C
Uniform Live Load 1.8 k/ft
Concentrated Load 12 k
Uniform Dead Load 350 lb/ft

\[ V_{e_{max}} = 12(-1) + (1.8 + 35)[(-1 \times 3) + 1/2 (-1 \times 3)] \]
\[ = 21.675 \text{kips} \]

\[ M_{e_{max}} = 12(-4) + (18 + 35)[1/2 (-4 \times 6)] \]
\[ = 110.7 \text{kips} \cdot \text{ft} \]