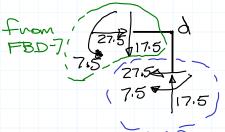


## FBD-B member def

$$N_{df} = 17.5$$
 by inspection  $V_{df} = 50-27.5 = 27.5$  by inspection  $EM_{d} = 0$  (+)  $M_{df} + 27.5 \times 3 - 50 \times 1.5 = 0$   $M_{df} = 7.5$  (6)



FBD-9 joint d

From FBD-8

$$\geq M + 4 = +7.5 - 7.5 = 0$$
  
 $\geq F_y + 4 = +17.5 - 17.5 = 0$   
 $\geq F_x + 5 = -27.5 + 27.5 = 0$ 

Fhat is a good thing.