

M_B				
		$\max M_1$		$\max A$
10,80	-25,87	-16,99	-24,23	-16,99
+ $M_A \cdot 2,00$	+ 1,60	+ 1,60	+ 2,12	+ 2,38
	-24,27	-15,39	-22,11	-14,61
M_B	-2,25	-1,42	-2,05	-1,35

Auflagerkräfte:

$$A = 1,20 \cdot 1,00 + \frac{0,88}{3} = \frac{1,35}{2,00} = 1,20 + 0,29 = 0,98 = 1,41 \text{ Np/m}$$

$$B_1 = 1,20 + \frac{2 \cdot 0,88}{3} + \frac{2,25}{2,00} = 1,20 + 0,59 + 0,73 = 2,52 \text{ Np/m}$$

$$B_2 = 1,06 \cdot 1,70 + \frac{2 \cdot 3,92}{3} + \frac{2,25}{3,40} = 1,80 + 2,61 + 0,66 = 5,07 \text{ Np/m}$$

$$B = 2,52 + 5,07 = 7,59 \text{ Np/m}$$

$$C = 1,80 + \frac{3,92}{3} - \frac{2,05}{3,40} = 1,80 + 1,31 - 0,60 = 2,51 \text{ Np/m}$$

Feldmomente:

$$A = 1,20 + 0,29 = \frac{1,42}{2,00} = 1,20 + 0,29 = 0,31 = 1,18 \text{ Np/m}$$

geprüft

$$\frac{0,88}{2,00} \cdot \frac{x^2}{2} + 1,20x = 1,18$$

$$x^2 + 5,44x = 5,36$$

$$x = -2,72 \pm \sqrt{7,40 + 5,36} = -2,72 + 3,57 = 0,85 \text{ m}$$

$$\left[\frac{0,88}{2,00} \cdot \frac{0,85^2}{2} + 1,20 \cdot 0,85 = 0,16 + 1,02 = 1,18 = A \right]$$

$$M_1 = 1,18 \cdot 0,85 - \frac{0,16 \cdot 0,85}{3} - \frac{1,02 \cdot 0,85}{2} = 0,80 = 1,00 - 0,95 = 0,43 - 0,80 = -0,28 \text{ Np/m}$$

$$\max M_1 = \frac{2,00}{24} (1,20 \cdot 2,00 + 0,88 \cdot 1,024) = 0,0833 (2,40 + 0,90) = 0,28 \text{ Np/m}$$

$$\frac{2,31}{3,40} \cdot \frac{x^2}{2} + 1,06x = 2,51$$

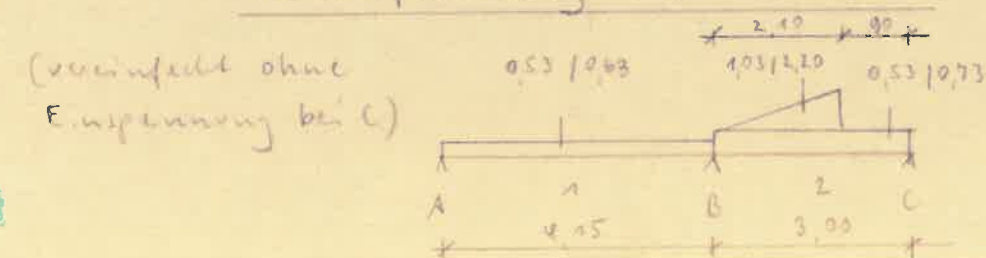
$$x^2 + 3,92x = 7,39$$

$$x = -1,96 \pm \sqrt{2,43 + 7,39} = -1,96 + 3,14 = 1,58 \text{ m}$$

$$\left[\frac{2,31}{3,40} \cdot \frac{1,58^2}{2} + 1,06 \cdot 1,58 = 0,85 + 1,67 = 2,52 \approx C \right]$$

$$M_2 = 2,51 \cdot 1,58 - \frac{0,85 \cdot 1,58}{3} - \frac{1,67 \cdot 1,58}{2} = 3,97 - 0,45 - 1,32 = 2,20 \text{ Np/m}$$

Durchlaufwirkung Pos. 19-19:



geprüft