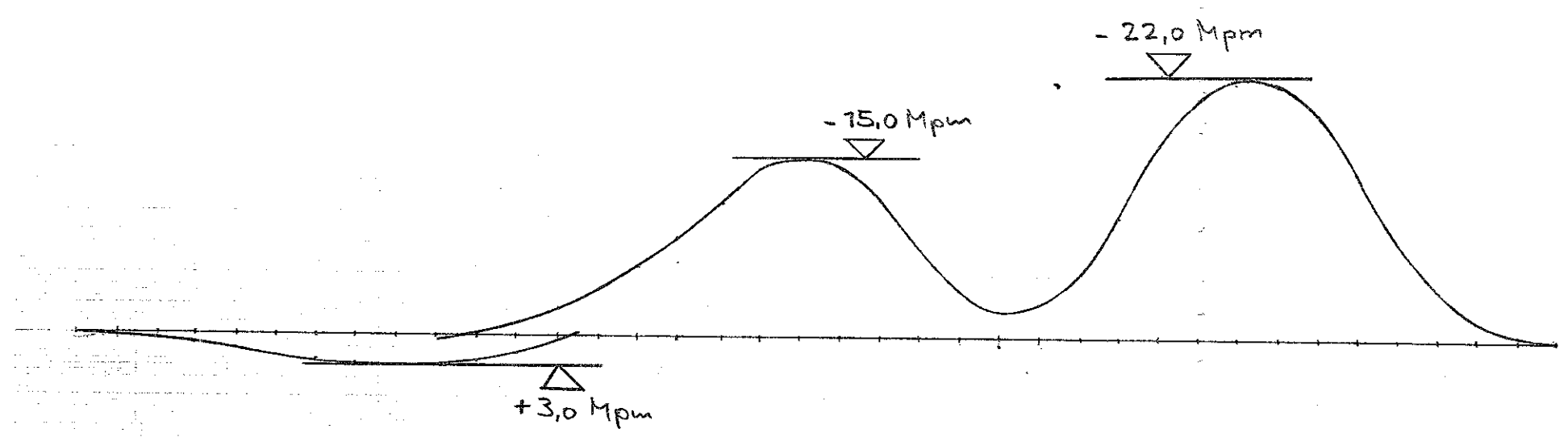


BEMESSUNG: $b | d | h = 1,70 | 45 | 47$; $\sigma_e = 2,4 \text{ Mp/cm}^2$

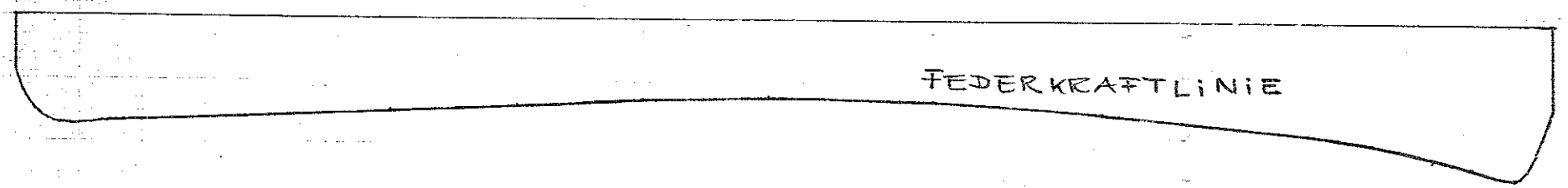
$M_{\max} = +3,0 \text{ Mpm}$; $K_n = 47 / \sqrt{\frac{3,0}{1,70}} = 30,8$; $f_{\text{III}b} = \frac{0,44 \times 3,0}{0,47} = 3,22 \text{ cm}^2$
 $\rightarrow 4 \phi 12$

$M_{\min_1} = -15,0 \text{ Mpm}$; $K_n = 47 / \sqrt{\frac{15,0}{1,70}} = 13,8$; $f_{\text{III}b} = \frac{0,45 \times 15,0}{0,47} = 16,5 \text{ cm}^2$
 $\rightarrow 6 \phi 20$

$M_{\min_2} = -22,0 \text{ Mpm}$; $K_n = 47 / \sqrt{\frac{22,0}{1,70}} = 17,4$; $f_{\text{III}b} = \frac{0,46 \times 22,0}{0,47} = 24,7 \text{ cm}^2$
 $\rightarrow 8 \phi 20$



Q_{\max} : STAB NR. 66
 $Q = 23,78 \text{ Mp}$
 $\tau = \frac{23,780}{170 \times 0,9 \times 47} = 3,8 \text{ kp/cm}^2$



FUNDAMENT BREITE
 $b = 1,70 \text{ m}$

4,34	8,27	7,83	7,34	6,79	6,29	6,07	6,41	6,88	7,56	8,86	10,75
8,54	8,13	7,68	7,16	6,61	6,16	6,15	6,57	7,06	7,91	9,45	11,43
8,40	7,98	7,51	6,98	6,44	6,08	6,27	6,72	7,28	8,35	10,09	12,12
8,27	7,83	7,34	6,79	6,29	6,05	6,41	6,88	7,56	8,86	10,75	6,41
29,55	32,21	30,36	28,27	26,13	24,58	24,90	26,58	28,78	32,68	39,15	40,71

ausgeführt wie in Achsen 4-6 da Wandscheibe wie dort!

HAUS (A)
 ACHSE 3
 MÜ-EN

$\sigma_1 = \frac{32,7}{1,70} = 19,3 \text{ Mp/m}^2$
 $M = \frac{19,3 \times 0,77^2}{2} = 5,75 \text{ Mpm/m}$
 $K_n = 42 / \sqrt{5,75} = 17,6$
 $f_{\text{IV}b} = \frac{0,38 \times 5,75}{0,42} = 5,20 \text{ cm}^2/\text{m} \rightarrow \text{R513}$

$\sigma_{\max} = \frac{40,71}{1,70} = 24,0 \text{ Mp/m}^2$
 $M = \frac{24,0 \times 0,77^2}{2} = 7,1 \text{ Mpm/m}$
 $K_n = 42 / \sqrt{7,1} = 15,8$
 $f_{\text{IV}b} = \frac{0,38 \times 7,1}{0,42} = 6,42 \text{ cm}^2/\text{m} \rightarrow \text{R664}$