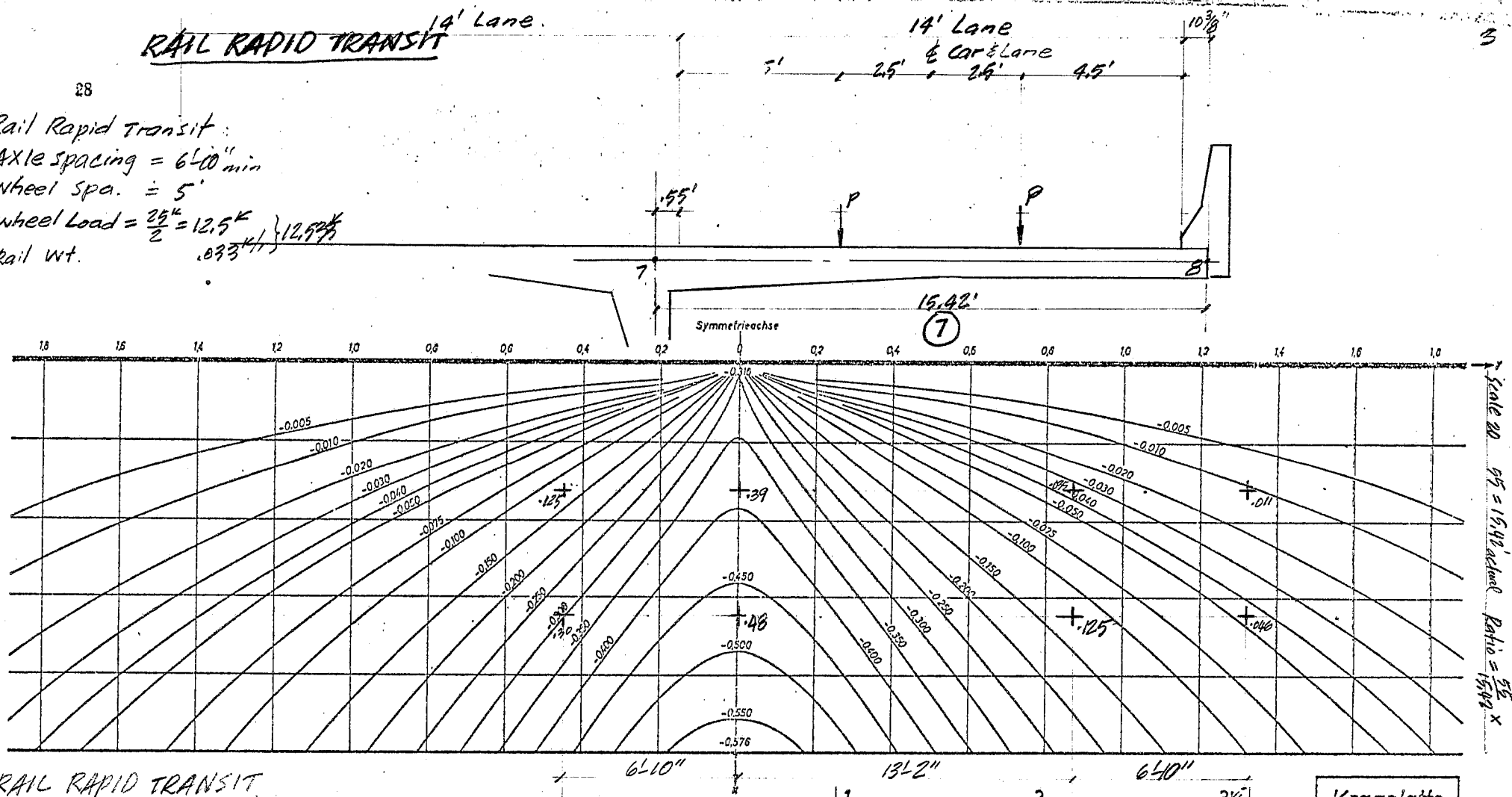
RAIL RAPID TRANSIT

28

Rail Rapid Transit:
Axle spacing = 6'-10" min
Wheel Spa. ≐ 5'
Wheel Load = $\frac{25^k}{2} = 12.5^k$ } 12.533^k
Rail Wt. $.033^{k/'}$



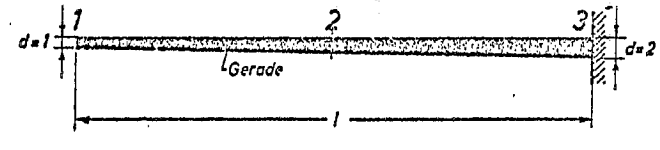
RAIL RAPID TRANSIT

$M_7 = (P+I)$ Coef

$= 12.533^k(1.3)\left[.48+.39+.30+.125+.125+.035+.046+.011\right]$

$= 24.64^{k'}$

$24.64^{k'} = P(5.05+10.05)$ $P = 1.634^k$ For max shear (not govern in slab design)



Kragplatte
1:2
$m_{3,x}$

11/30/83 – ASKING BY METRO OF SEATTLE "

$M_7 = 24.64^{k'}\left(\frac{27^k}{25^k}\right) = 26.61^k$ BY PRORATE (SEE PAGE 211)

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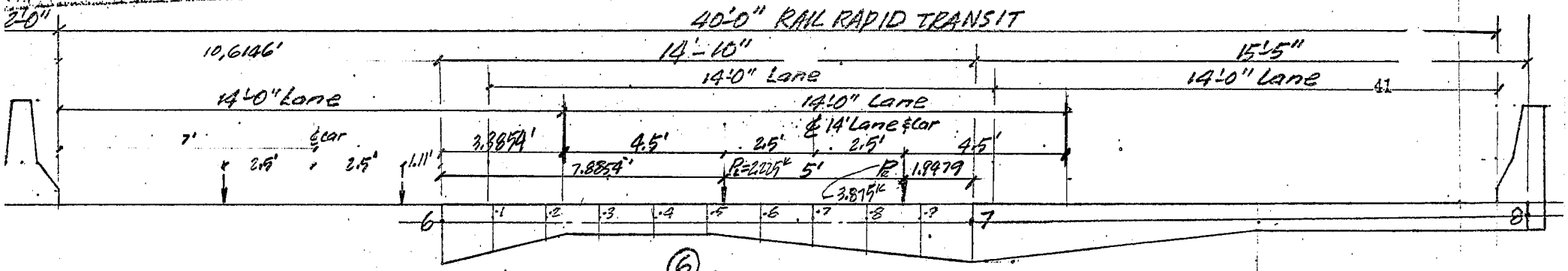
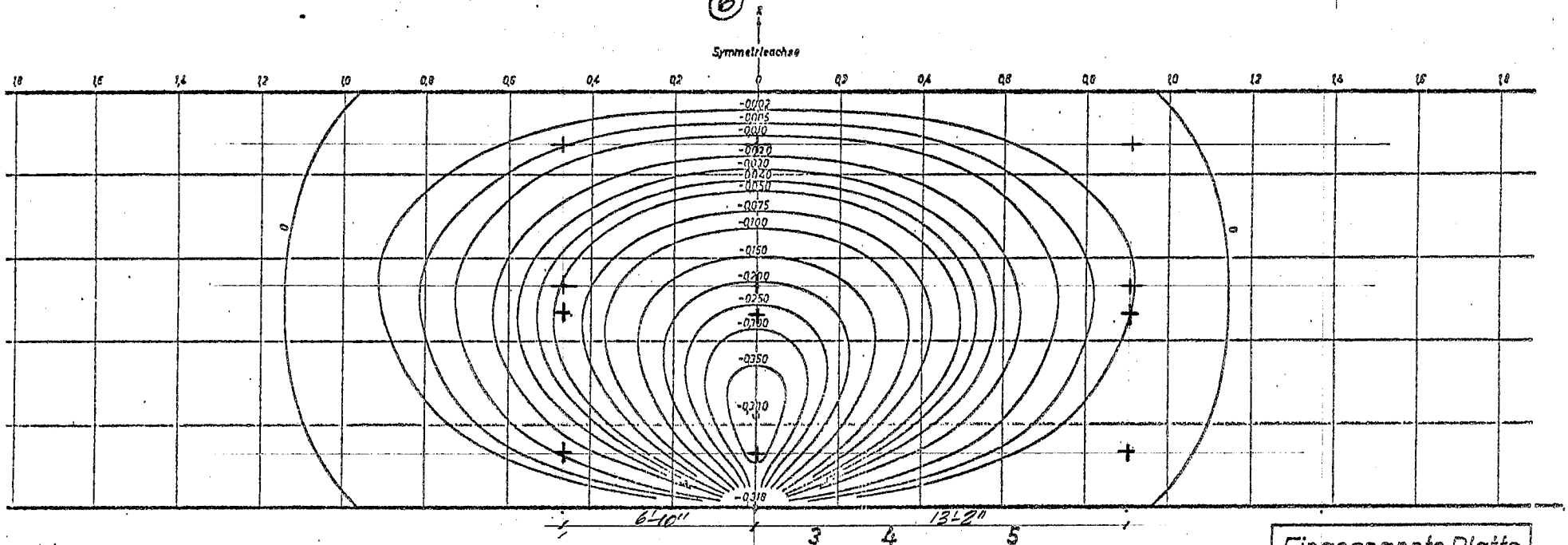




RAIL RAPID TRANSIT — case I

$M_6 = 12.533^k(1.3)\left[.21+.015+.051+.005+\overset{.2841}{.0022}+.0009\right] = 4.63^{k'}$

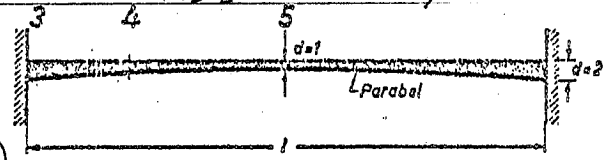
$4.63^{k'} = (1.82P_L + .15P_R)$

$+\ M_7 = 12.533^k(1.3)\left[.36+.21+.12+.06+\overset{.8129}{.002}+.0009\right] = 13.245^{k'}$

$13.245^{k'} = (3.08P_L + 1.65P_R)$

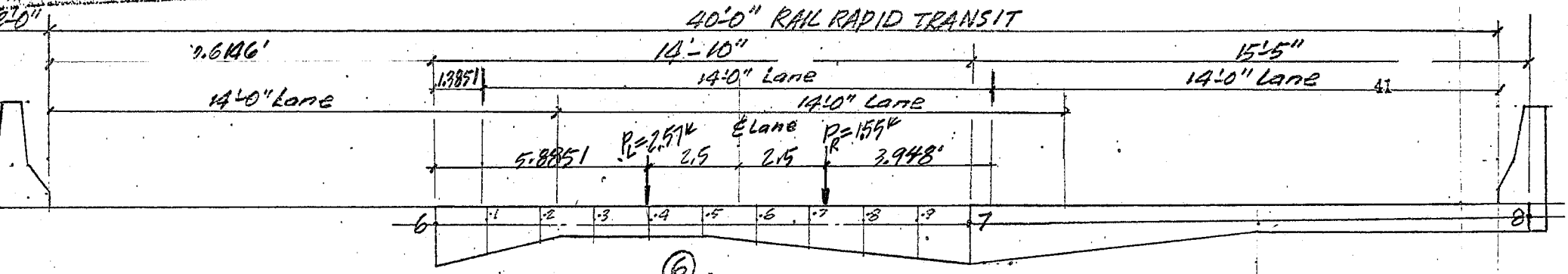
$P_L = 2.225^k$

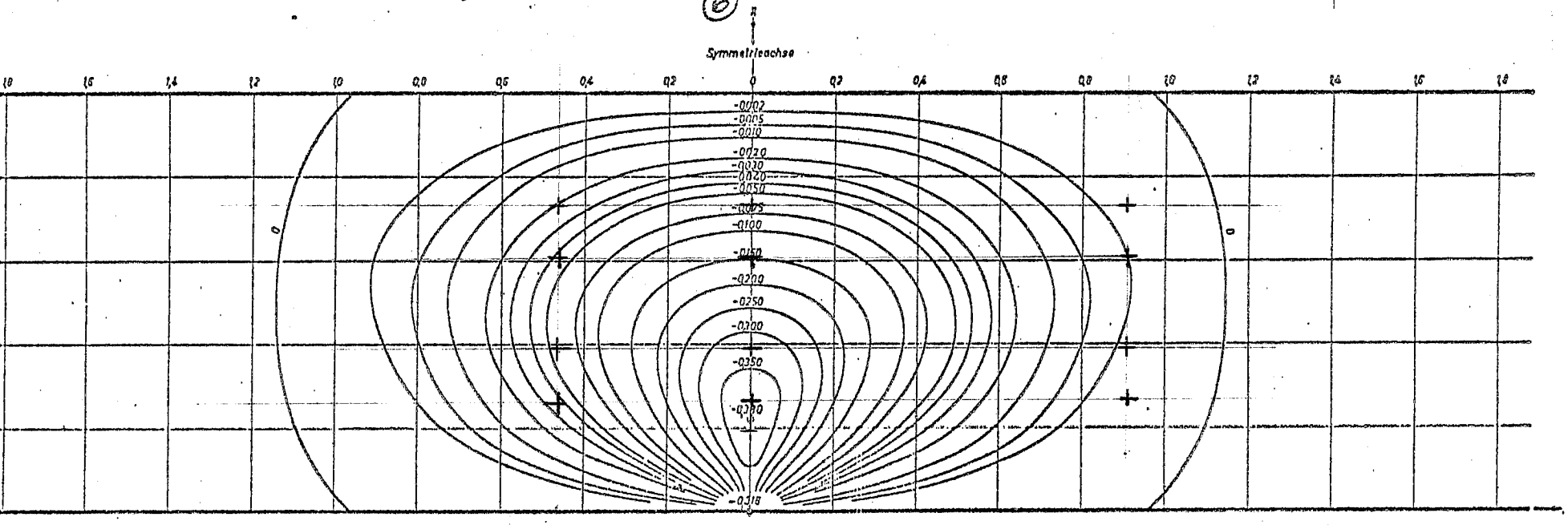
$P_R = 3.875^k$



Eingespannte Platte
1:2
$m_{3,x}$

33003345





RAIL RAPID TRANSIT — Case II

$M_6 = 12.533^k(1.3)[.335 + .07 + .06 + .02 + .0786 + .0019 + .0017] = 7.80^{k'}$

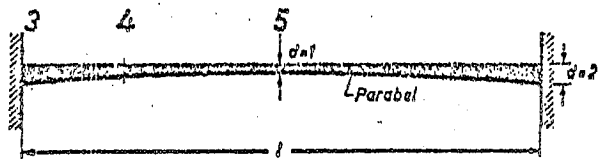
$7.80^{k'} = (2.67 P_L + .61 P_R)$

$+ M_7 = 12.533^k(1.3)[.37 + .15 + .037 + .0445 + .0015 + .002] = 9.85^{k'}$

$9.85^{k'} = 2.10 P_L + 2.88 P_R)$

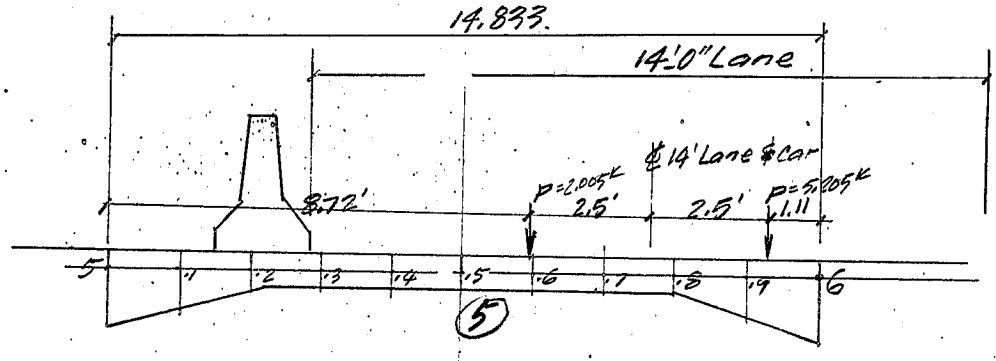
$P_L = 2.567^k$

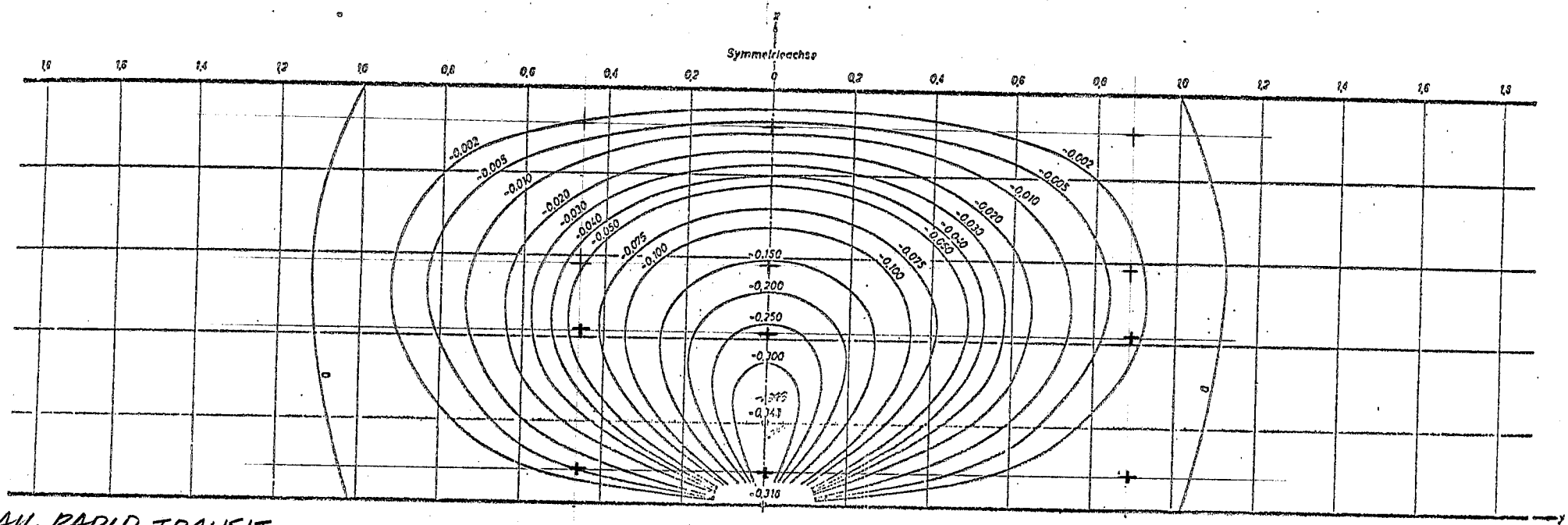
$P_R = 1.549^k$



Eingespannte Platte
1:2
m 3,x

33003346





RAIL RAPID TRANSIT —

$M_5 = 12.533^k(1.3)[.16 + .007 + .048 + .003 + .003 + .001] = 3.617^{k'}$ (.222)

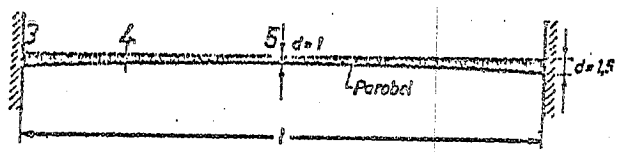
$3.617^{k'} = (1.70 P_L + .84 P_R)$

$+ M_6 = 12.533^k(1.3)[.32 + .27 + .005 + .06 + .0009 + .003] = 10.736^{k'}$ (.6589)

$10.74^{k'} = (2.89 P_L + .95 P_R)$

$P_L = 2.005^k$

$P_R = 5.205^k$



Eingespannte Platte
1:1,5
$m_{3,x}$