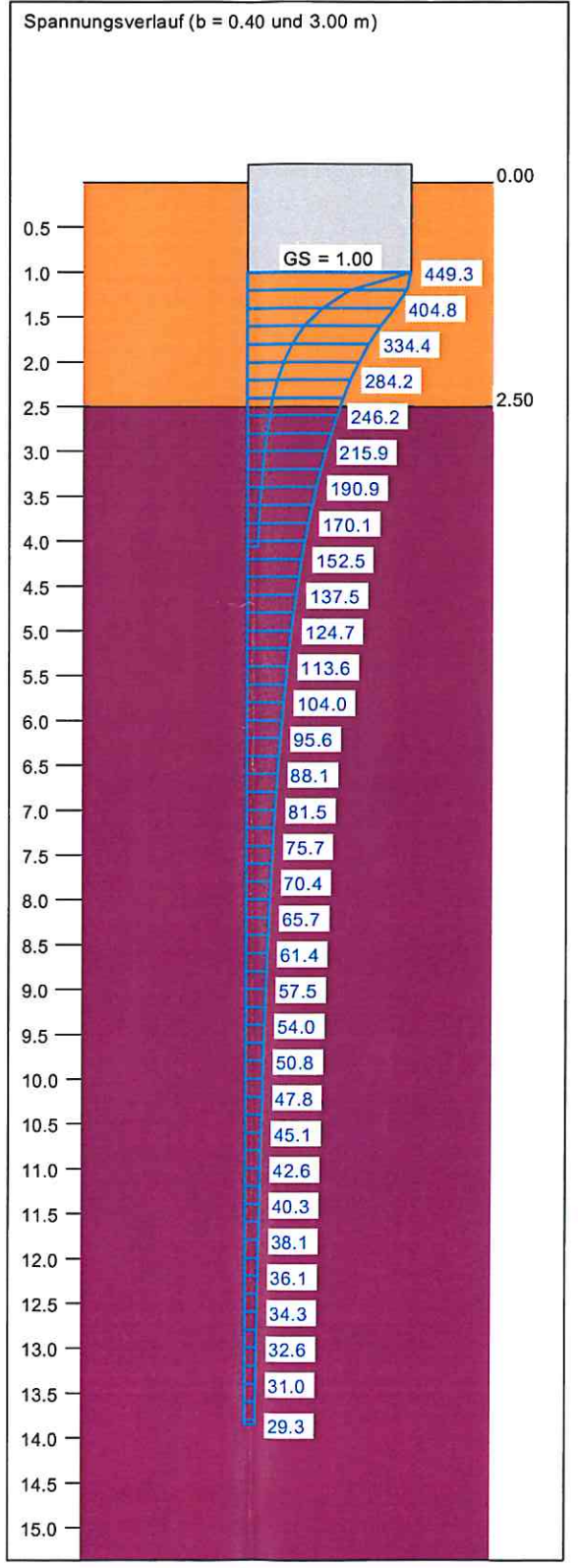
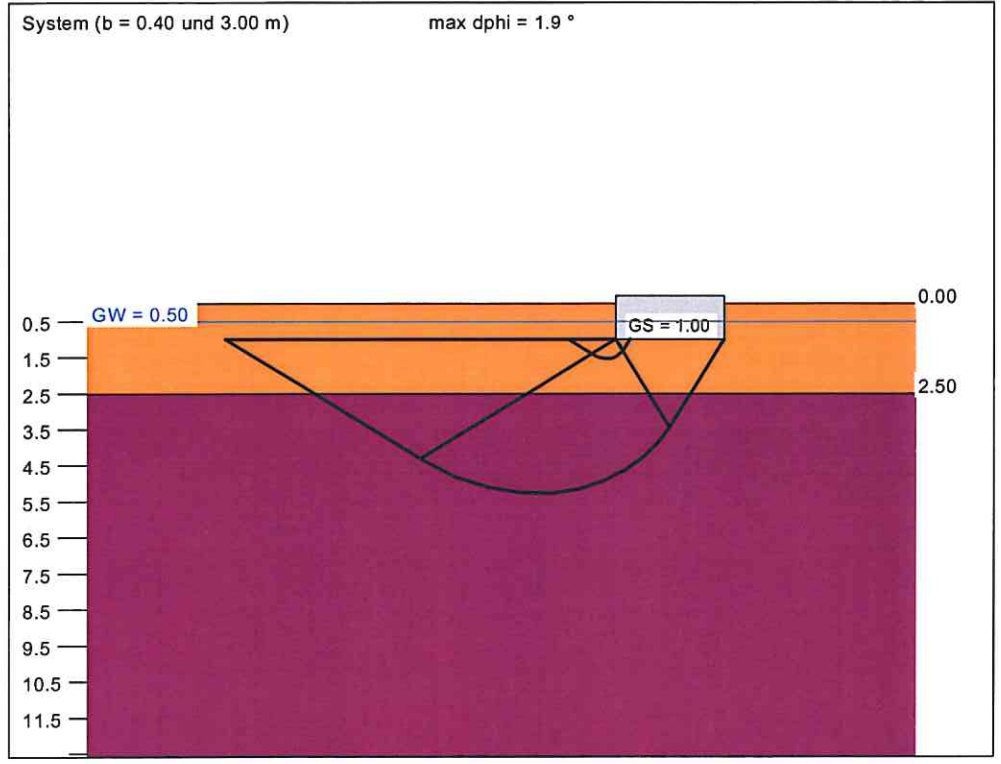


Boden	γ [kN/m ³]	γ' [kN/m ³]	ϕ [°]	c [kN/m ²]	E_s [MN/m ²]	v [-]	Bezeichnung
	19.0	9.0	25.0	5.0	10.0	0.00	HB 3 Feinsande
	20.5	10.5	27.5	25.0	65.0	0.00	HB 4 Tiefere OSM



Berechnungsgrundlagen:
 Norm: EC 7
 BS: DIN 1054: BS-P
 Grundbruchformel nach DIN 4017:2006
 Teilsicherheitskonzept (EC 7)
 Streifenfundament (a = 10.00 m)
 $\gamma_{R,v} = 1.40$
 $\gamma_G = 1.35$
 $\gamma_Q = 1.50$
 Anteil Veränderliche Lasten = 0.500

$\gamma_{(G,Q)} = 0.500 \cdot \gamma_Q + (1 - 0.500) \cdot \gamma_G$
 $\gamma_{(G,Q)} = 1.425$
 Gründungssohle = 1.00 m
 Grundwasser = 0.50 m
 Grenztiefe mit p = 20.0 %
 Grenztiefen spannungsvariabel bestimmt

— Sohldruck
 — Setzungen

a	b	$\sigma_{R,d}$	$R_{n,d}$	$\sigma_{E,k}$	s	cal ϕ	cal c	γ_2	σ_{ϕ}	t_{ϕ}	UK LS	k_s
[m]	[m]	[kN/m ²]	[kN/m]	[kN/m ²]	[cm]	[°]	[kN/m ²]	[kN/m ²]	[kN/m ²]	[m]	[m]	[MN/m ²]
10.00	0.40	195.3	78.1	137.0	0.80	25.0	5.00	9.00	14.00	4.06	1.54	17.2
10.00	0.50	198.9	99.4	139.6	0.93	25.0	5.00	9.00	14.00	4.44	1.67	15.1
10.00	0.60	202.5	121.5	142.1	1.04	25.0	5.00	9.00	14.00	4.79	1.81	13.6
10.00	0.70	206.0	144.2	144.6	1.15	25.0	5.00	9.00	14.00	5.12	1.94	12.6
10.00	0.80	209.6	167.7	147.1	1.25	25.0	5.00	9.00	14.00	5.42	2.08	11.7
10.00	0.90	213.1	191.8	149.6	1.35	25.0	5.00	9.00	14.00	5.71	2.21	11.1
10.00	1.00	216.7	216.7	152.1	1.44	25.0	5.00	9.00	14.00	5.99	2.35	10.6
10.00	1.10	220.2	242.2	154.5	1.53	25.0	5.00	9.00	14.00	6.25	2.48	10.1
10.00	1.20	315.3	378.4	221.3	2.30	25.6	9.72	9.04	14.00	7.46	2.64	9.6
10.00	1.30	356.7	463.8	250.3	2.70	25.8	11.52	9.10	14.00	8.09	2.79	9.3
10.00	1.40	388.3	543.6	272.5	3.04	26.0	12.77	9.16	14.00	8.61	2.94	9.0
10.00	1.50	413.5	620.3	290.2	3.33	26.1	13.69	9.22	14.00	9.06	3.08	8.7
10.00	1.60	436.4	698.2	306.2	3.62	26.2	14.48	9.28	14.00	9.48	3.23	8.5
10.00	1.70	456.7	776.4	320.5	3.88	26.3	15.14	9.33	14.00	9.88	3.37	8.3
10.00	1.80	475.6	856.1	333.8	4.14	26.4	15.72	9.38	14.00	10.26	3.52	8.1
10.00	1.90	493.2	937.2	346.1	4.38	26.4	16.24	9.43	14.00	10.62	3.67	7.9
10.00	2.00	509.7	1019.4	357.7	4.62	26.5	16.69	9.47	14.00	10.96	3.81	7.7
10.00	2.10	525.3	1103.2	368.6	4.85	26.5	17.10	9.51	14.00	11.29	3.96	7.6
10.00	2.20	540.2	1188.4	379.1	5.08	26.6	17.47	9.55	14.00	11.61	4.10	7.5
10.00	2.30	554.3	1275.0	389.0	5.31	26.6	17.81	9.58	14.00	11.92	4.25	7.3
10.00	2.40	567.9	1363.1	398.6	5.52	26.7	18.12	9.61	14.00	12.22	4.39	7.2
10.00	2.50	581.0	1452.6	407.7	5.74	26.7	18.40	9.64	14.00	12.51	4.54	7.1
10.00	2.60	593.6	1543.5	416.6	5.95	26.7	18.66	9.67	14.00	12.79	4.68	7.0
10.00	2.70	605.8	1635.7	425.1	6.16	26.7	18.90	9.70	14.00	13.07	4.83	6.9
10.00	2.80	617.6	1729.4	433.4	6.36	26.8	19.12	9.72	14.00	13.34	4.97	6.8
10.00	2.90	629.1	1824.4	441.5	6.56	26.8	19.33	9.75	14.00	13.60	5.12	6.7
10.00	3.00	640.3	1920.8	449.3	6.76	26.8	19.53	9.77	14.00	13.85	5.26	6.6

$\sigma_{E,k} = \sigma_{\phi,k} / (\gamma_{R,v} \cdot \gamma_{(G,Q)}) = \sigma_{\phi,k} / (1.40 \cdot 1.43) = \sigma_{\phi,k} / 1.99$ (für Setzungen)
 Verhältnis Veränderliche(Q)/Gesamtlasten(G+Q) [-] = 0.50

