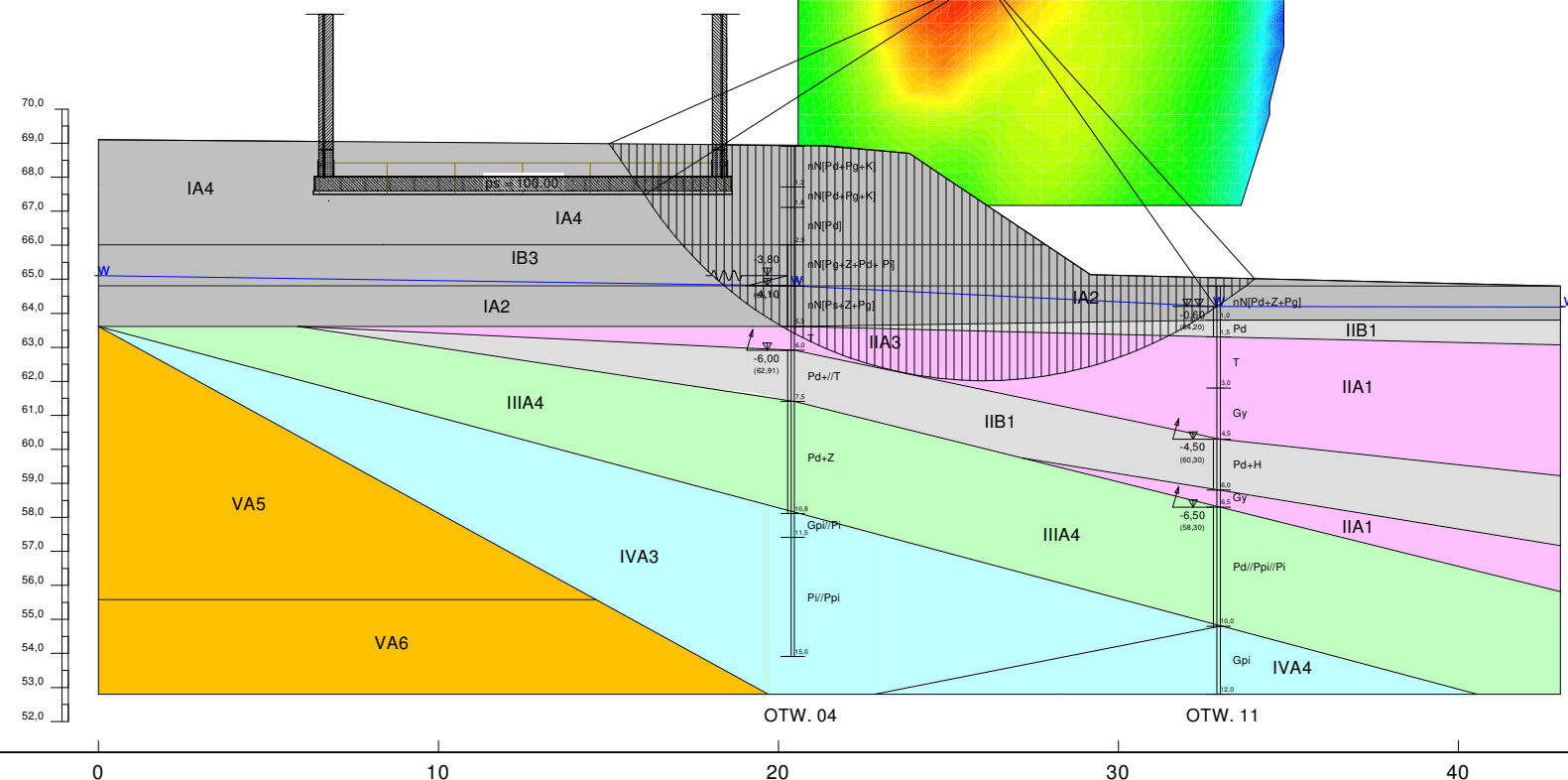


Soil	ϕ_k [°]	c_k [kN/m ²]	γ_k [kN/m ³]	Designation
	24.40	0.00	17.00	IA1
	24.80	0.00	17.20	IA2
	25.40	0.00	17.40	IA4
	26.10	0.00	17.60	IA6
	7.80	6.50	20.50	IB1
	10.50	10.10	20.70	IB2
	11.90	12.80	20.90	IB3
	10.50	4.00	11.20	IIA1
	11.20	4.50	11.80	IIA2
	13.10	5.00	12.30	IIA3
	24.40	0.00	16.50	IIB1
	9.20	8.10	17.20	IIC1
	29.70	0.00	17.20	IIIA3
	30.20	0.00	17.50	IIIA4
	30.70	0.00	17.70	IIIA5
	19.20	33.50	20.50	IIIB5
	15.50	26.40	20.00	IVA3
	17.30	29.70	20.20	IVA4
	29.70	0.00	17.50	IVB3
	30.20	0.00	17.70	IVB4
	20.70	37.10	21.00	VA4
	22.40	41.70	21.50	VA5
	25.00	50.00	22.00	VA6

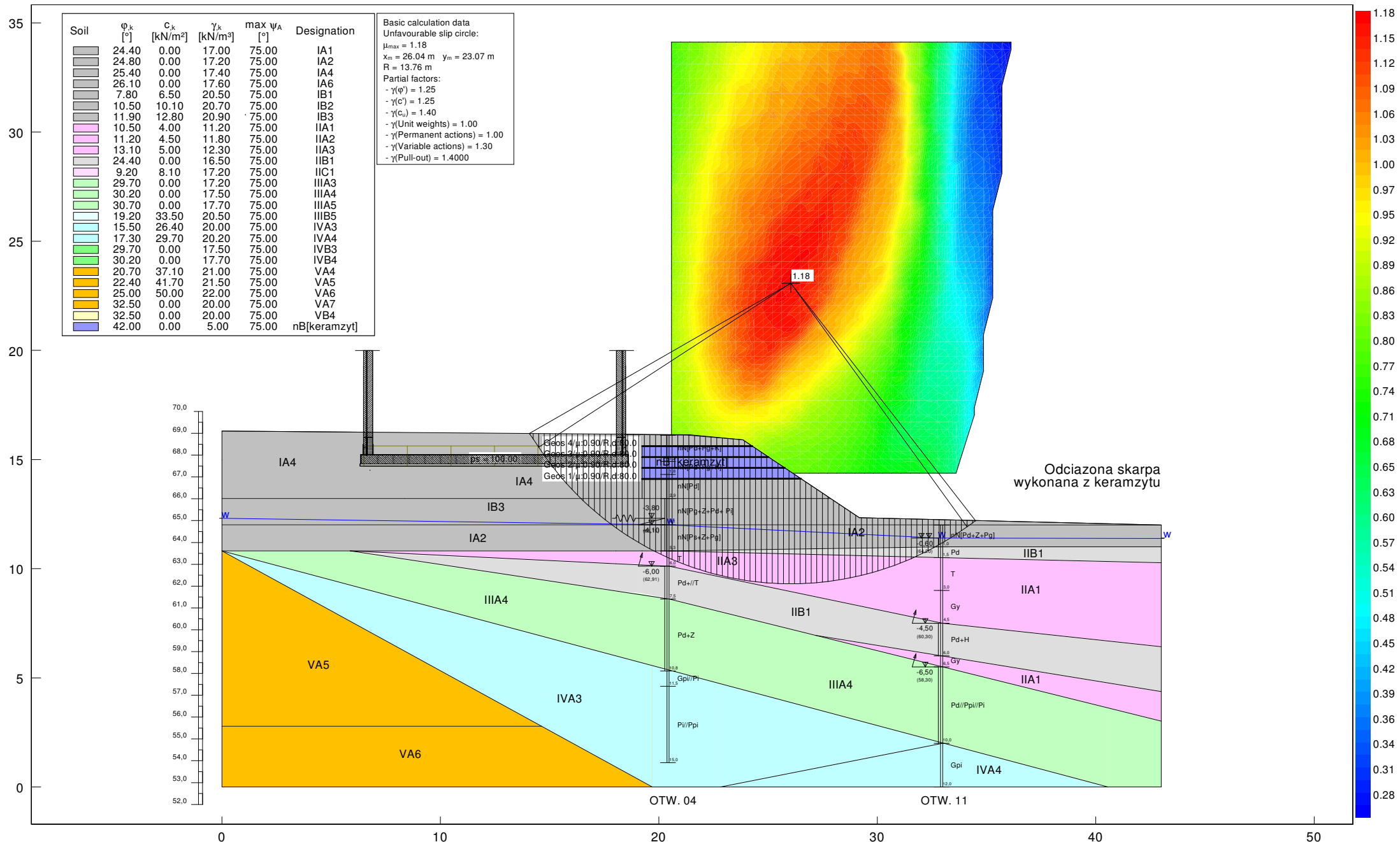
Basic calculation data
Unfavourable slip circle:
 $\mu_{max} = 1.19$
 $x_m = 26.04 \text{ m}$ $y_m = 21.06 \text{ m}$
 $R = 11.84 \text{ m}$
Partial factors:
- $\gamma(\phi') = 1.25$
- $\gamma(c') = 1.25$
- $\gamma(c_u) = 1.40$
- $\gamma(\text{Unit weights}) = 1.00$
- $\gamma(\text{Permanent actions}) = 1.00$
- $\gamma(\text{Variable actions}) = 1.30$

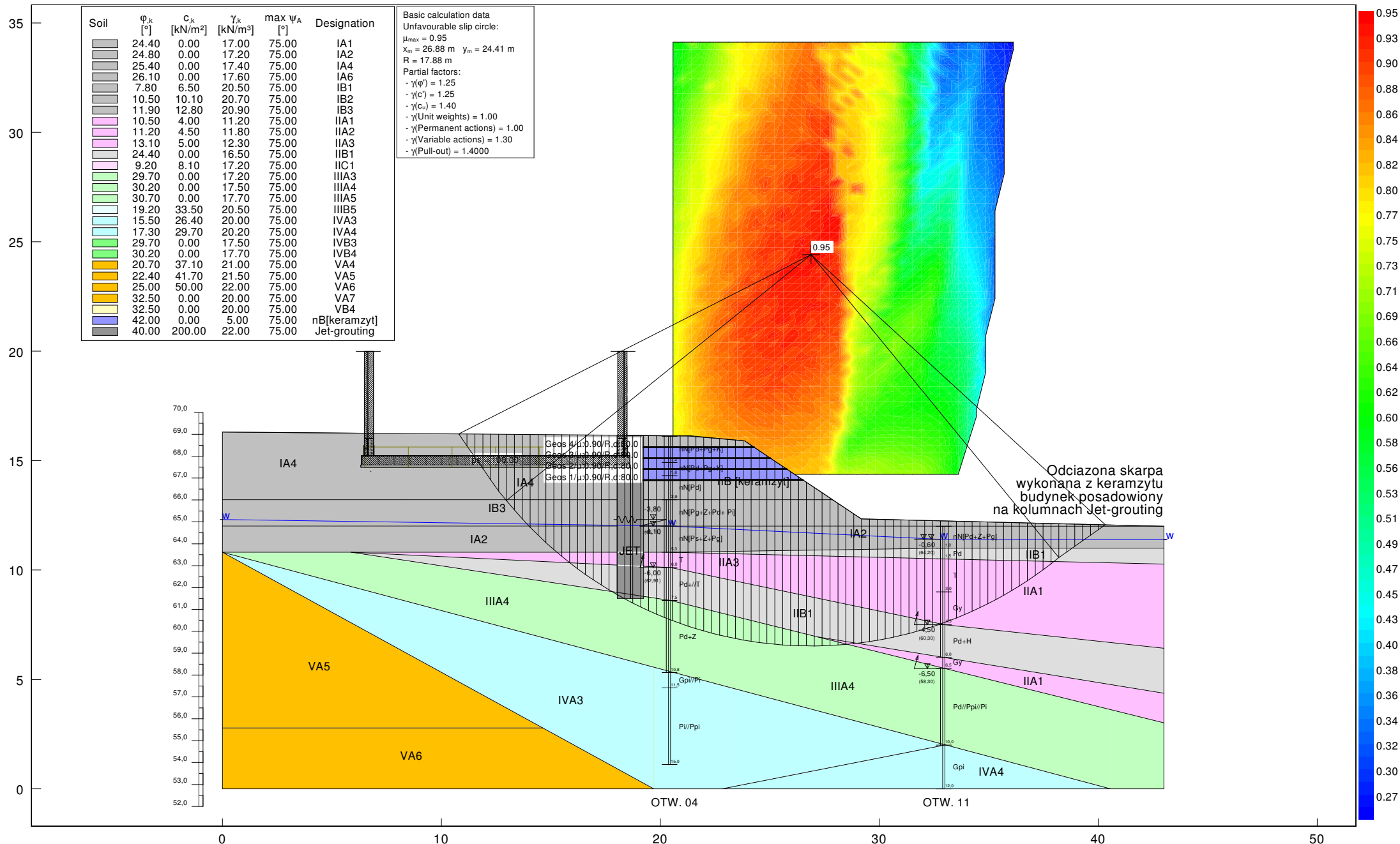


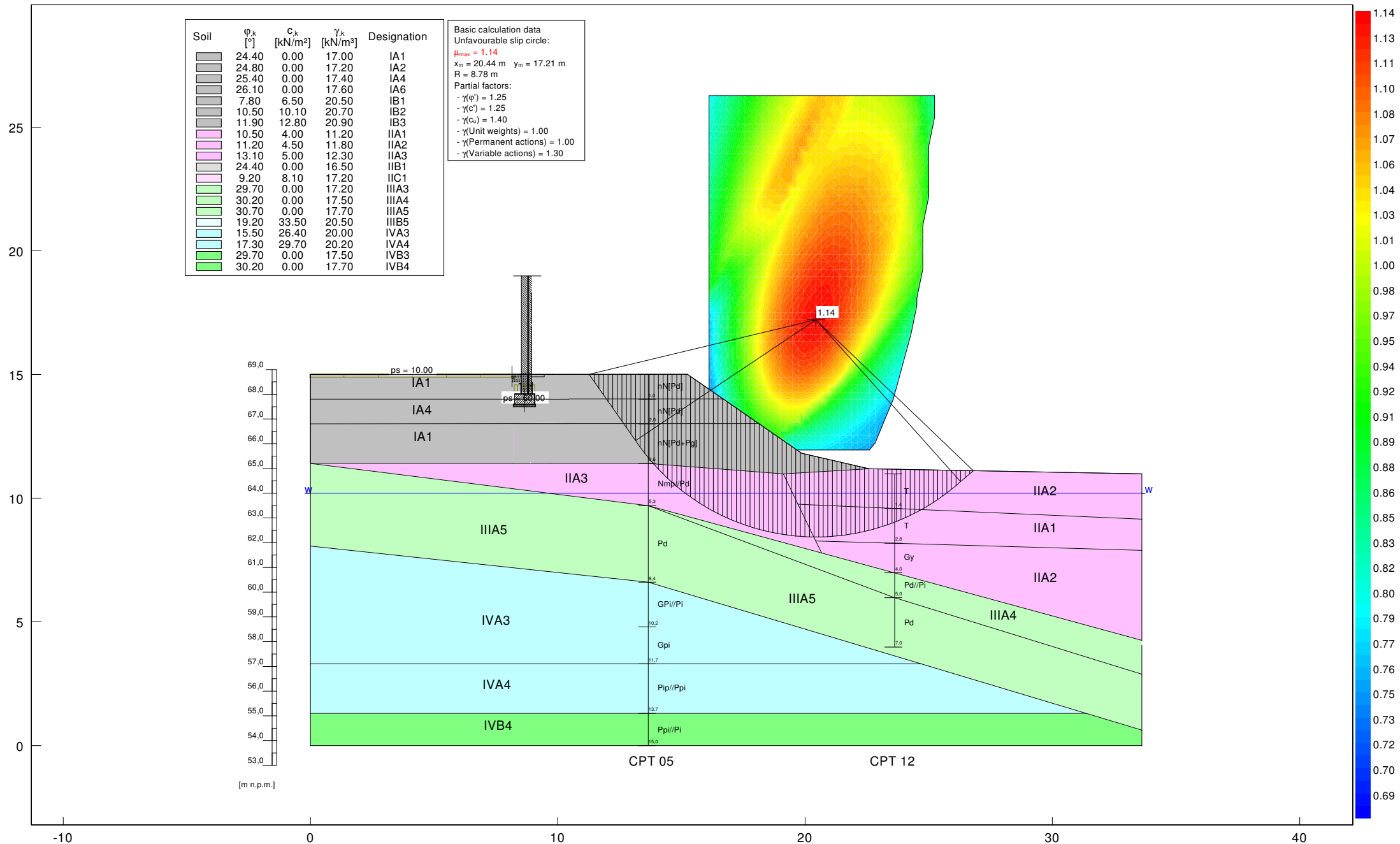
GT PROJEKT

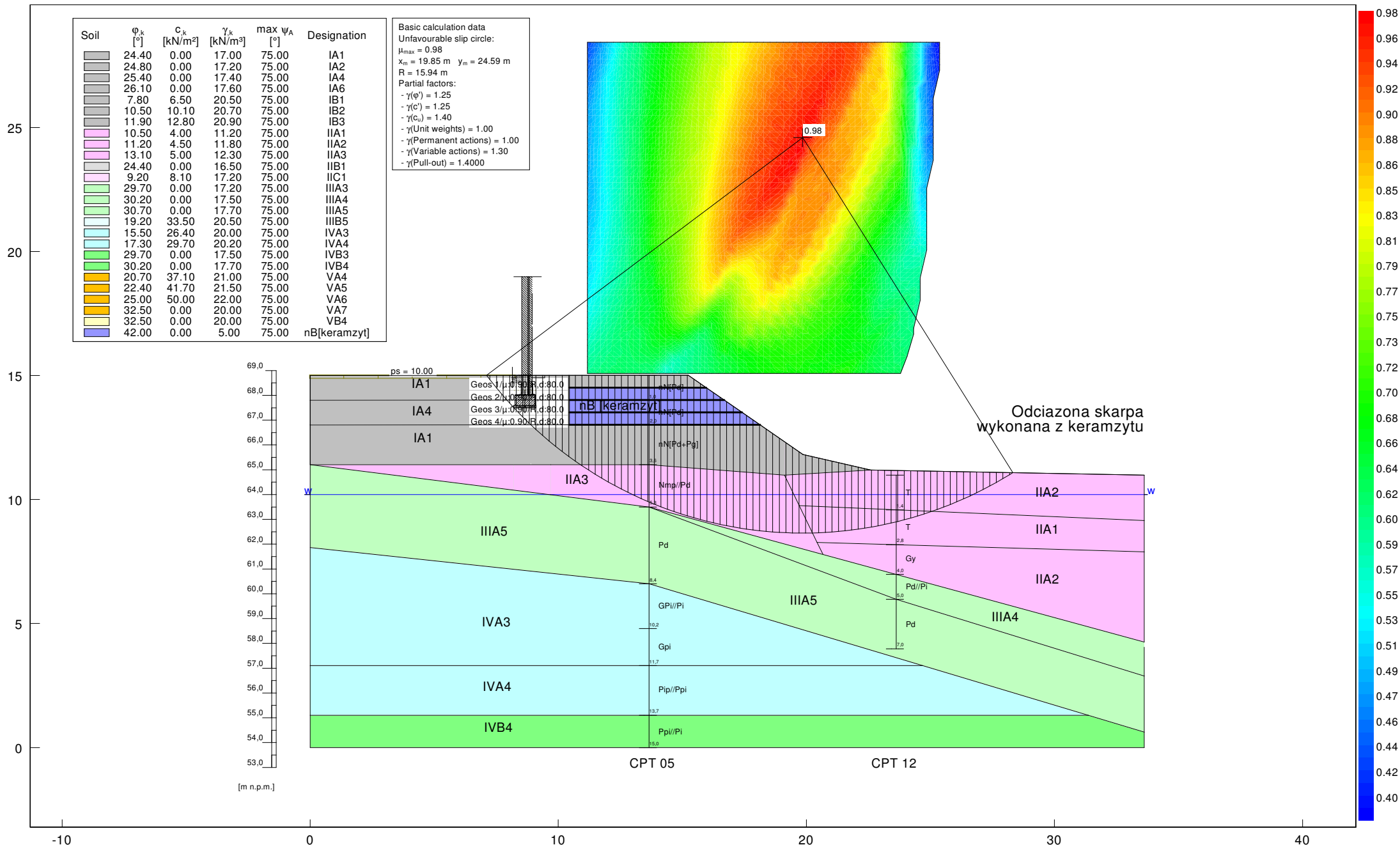
ANALIZA STATECZNOŚCI
Oczyszczalnia ścieków Borówiec
Opracował: mgr inż. J. Maczynska

Projekt nr
8836A/2020
Zał. 3.1









Soil	φ_k [°]	c_k [kN/m²]	γ_k [kN/m³]	max ψ_A [°]	Designation
	24.40	0.00	17.00	75.00	IA1
	24.80	0.00	17.20	75.00	IA2
	25.40	0.00	17.40	75.00	IA4
	26.10	0.00	17.60	75.00	IA6
	7.80	6.50	20.50	75.00	IB1
	10.50	10.10	20.70	75.00	IB2
	11.90	12.80	20.90	75.00	IB3
	10.50	4.00	11.20	75.00	IIA1
	11.20	4.50	11.80	75.00	IIA2
	13.10	5.00	12.30	75.00	IIA3
	24.40	0.00	16.50	75.00	IIB1
	9.20	8.10	17.20	75.00	IIC1
	29.70	0.00	17.20	75.00	IIIA3
	30.20	0.00	17.50	75.00	IIIA4
	30.70	0.00	17.70	75.00	IIIA5
	19.20	33.50	20.50	75.00	IIIB5
	15.50	26.40	20.00	75.00	IVA3
	17.30	29.70	20.20	75.00	IVA4
	29.70	0.00	17.50	75.00	IVB3
	30.20	0.00	17.70	75.00	IVB4
	20.70	37.10	21.00	75.00	VA4
	22.40	41.70	21.50	75.00	VA5
	25.00	50.00	22.00	75.00	VA6
	32.50	0.00	20.00	75.00	VA7
	32.50	0.00	20.00	75.00	VB4
	42.00	0.00	5.00	75.00	nB[keramzyt] Jet-grouting
	40.00	200.00	22.00	75.00	

Basic calculation data
Unfavourable slip circle:
 $\mu_{max} = 0.86$
 $x_m = 20.91\text{ m}$ $y_m = 21.20\text{ m}$
 $R = 12.91\text{ m}$
Partial factors:
- $\gamma(\varphi) = 1.25$
- $\gamma(c) = 1.25$
- $\gamma(G_u) = 1.40$
- $\gamma(\text{Unit weights}) = 1.00$
- $\gamma(\text{Permanent actions}) = 1.00$
- $\gamma(\text{Variable actions}) = 1.30$
- $\gamma(\text{Pull-out}) = 1.4000$

