Questionnaire

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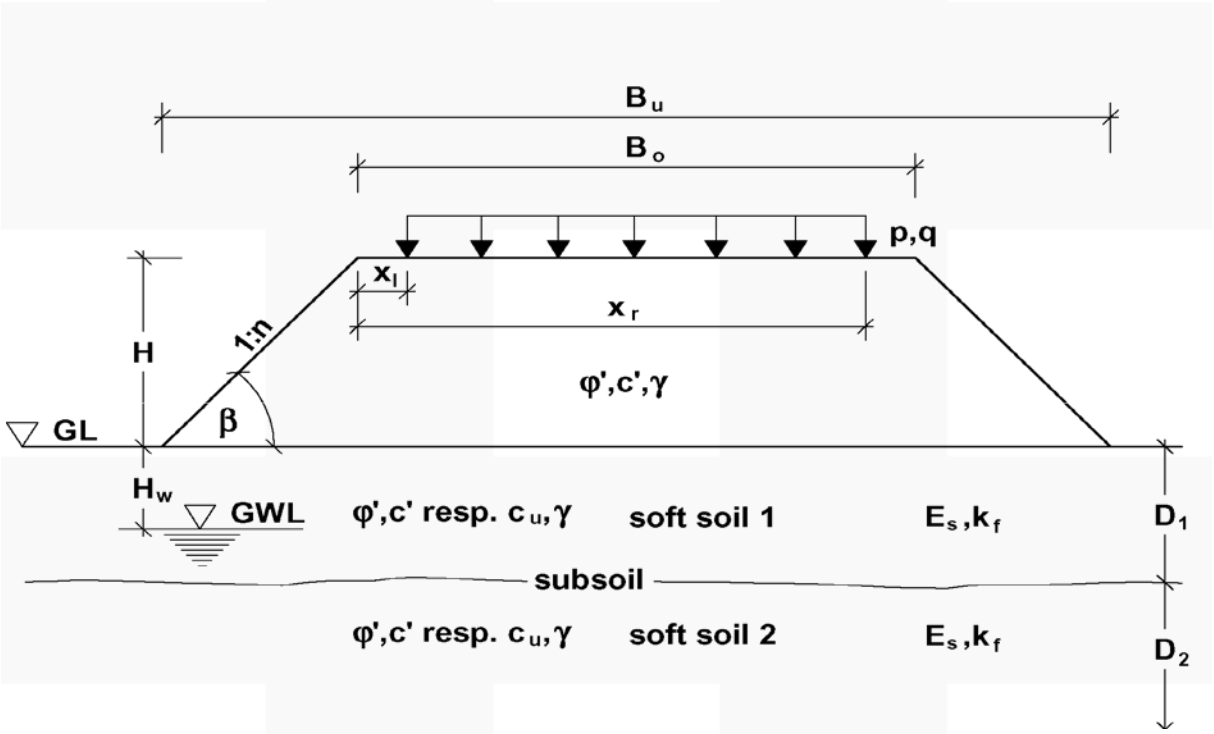
Ideen. Ingenieure. Innovationen.

Embankment with reinforced soil foundation on poor ground

1. General

Project / Object name: _____
Company / Client: _____
Contact person: _____
Telephone number: _____
Fax number: _____
E-Mail: _____
Internal person in charge: _____



sketch (please add information if required)

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2. Geometry, loads and soil parameters

2.1 Data of the embankment

Geometry			
embankment height	H =		m
crest width	B_o =		m
base width	B_u =		m
slope angle	β = °	or 1:n	n =
dam length	L =		m

Loads			
dead load	p = kN/m²	x_1 = m	x_r = m
live load	q = kN/m²	x_1 = m	x_r = m
type of use	☐ road embankment	☐ railroad embankment	
other type of use			
expected settlement of the embankment	at the sides [m]		
	in the middle [m]		
Soil parameter of embankment material			
angle of internal friction	φ' =		°
cohesion	c' =		kN/m²
soil unit weight	γ =		kN/m³
pH-value (1,0 to 14,0)		alternative: acid ☐	neutral ☐ alkaline ☐

2.2 Data of the subsoil

		Layer 1	Layer 2	
General				
thickness of the soft soil layer	D =			m
soil unit weight	γ =			kN/m³
pH-value Layer 1 (1,0 to 14,0)		alternative: acid ☐	neutral ☐	alkaline ☐
in the state of construction				
undrained shear strength	c_u =			kN/m²
final state				
angle of internal friction	φ' =			°
cohesion	c' =			kN/m²
If deformation or consolidation is relevant				
oedometric moduls	E_S =			kN/m²
coefficient of permeability	k_f =			m/s
Groundwater level under surface				
Groundwater level	H_W =			m

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2.3 Brief description of the soil (e.g.: cohesive soil, clay, peat,…)

2.4 Additional information (Construction stages and height? Earthquake hazards? If so, which safety has to be reached in the design? Vertikal drains?)

2.5 Service life of the embankment

☐ Permanent ☐ temporary _____ months/years

3. Norm/Standard which should be used for the design (e.g. DIN 1054 (old/new), BS 8006)

4. Target date of project completion

In addition to this Questionnaire a representative cross section of the intended structure, illustrating soil stratification, trenches, roads etc., is requiered.

Date: _____ Signature: _____

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