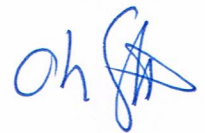


VEDLEGG Q2
13.12.2018

Dimensjonering Stabilitet, H = 8 m til vei.

Kirkeveien 18, Lyngdal

oh 

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10 sider.

PROJECT IDENTIFICATION

Title: Kirkeveien 18, Lyngdal
Project Number: -
Client: Aamodt Hus AS v/ Alexander Aa.
Designer: Stein H. Stokkebo
Station Number: Vedlegg Q2, H = 8 m-stabilitet

Description:

Stabilitet til leilighetsbygg mot skråning, H = ca. 8 m. Fundamenter på stedlig meget fast grusig sand.

Company's information:

Name: Stokkebo Competanse AS
Street: Mellomskarva 7
1350 Lommedalen
Telephone #: +47 90184211
Fax #:
E-Mail: post@stokkebo-competanse.no

Original file path and name: C:\Users\S Lyngdal-01-20181213-Q2-H 8 m-stabilitet-tier-a.MSE
Original date and time of creating this file: 13-12-2018

PROGRAM MODE: Analysis of a Tiered Slope using NO reinforcement material.

DRAWING OF SPECIFIED GEOMETRY - TIERED

- Problem geometry is defined along sections selected by user at x,y coordinates.
- X1,Y1 represents the coordinates of soil surface. X2,Y2 represent the coordinates of the end of soil layer 1 and start of soil layer 2, and so on.
- Xw,Yw represents the coordinates of phreatic surface.

GEOMETRY

Soil profile contains 3 layers (see details in next page)

WATER GEOMETRY

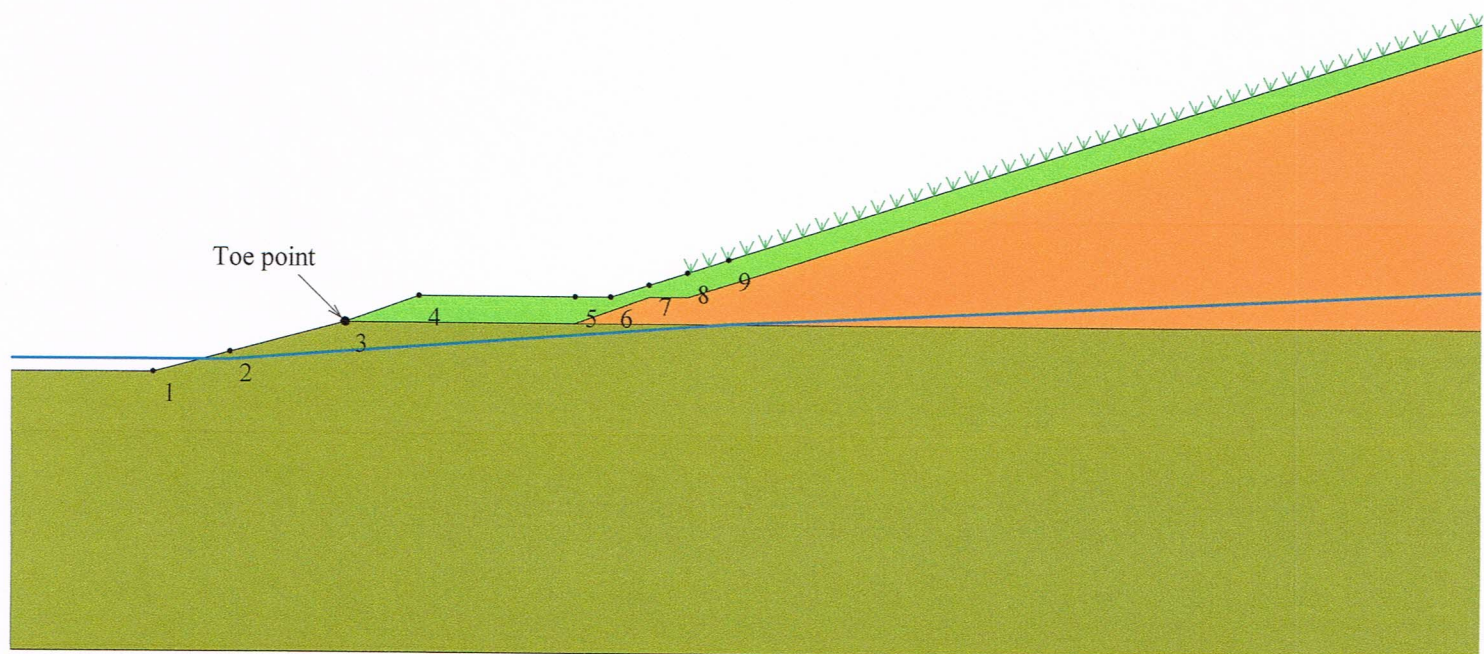
Phreatic line was specified.

UNIFORM SURCHARGE

Load Q1 = 6.50 [kPa] inclined from verical at 0.00 degrees, starts at X1s = 9.00 and ends at X1e = 40.00 [m].
Load Q2 = 80.00 [kPa] inclined from verical at 0.00 degrees, starts at X2s = 40.00 and ends at X2e = 70.00 [m].
Surcharge load, Q3.....None

STRIP LOAD

.....None.....



SCALE:

0 2 4 6[m]

TABULATED DETAILS OF GEMERAL SPECIFIED GEOMETRY

Soil profile contains 3 layers. Coordinates in [m.]
 Water was described by phreatic line.

	#	Xi	Yi
 Top of Layer 1	1	-5.00	-1.34
	2	0.00	0.00
	3	1.92	0.70
	4	6.00	0.70
	5	6.92	0.70
	6	7.92	1.02
	7	8.92	1.35
	8	31.54	8.70
	9	31.54	8.70
	10	33.54	8.70
 Top of Layer 2	11	-5.00	-1.34
	12	0.00	0.00
	13	1.92	0.00
	14	6.00	0.00
	15	6.92	0.34
	16	7.92	0.70
	17	8.92	0.70
	18	31.54	8.05
	19	31.54	8.05
	20	33.54	8.70
 Top of Layer 3	21	-5.00	-1.34
	22	0.00	0.00
	23	1.92	0.00
	24	6.00	0.00
	25	6.92	0.00
	26	7.92	0.00
	27	8.92	0.00
	28	31.54	0.00
	29	31.54	0.00
	30	33.54	0.00
Top of Phreatic Line	32	-3.00	-1.00
	33	10.00	0.00
	34	40.00	1.50

TABULATED DETAILS OF SPECIFIED GEOMETRY

Soil profile contains 3 layers. Coordinates in [m.]

Water was described by phreatic line. Y values are tabulated in the right most column.
(phreatic)

#	X	Y1	Y2	Y3	Yw
1	-5.00	-1.34	-1.34	-1.34	-1.00
2	-3.00	-0.80	-0.80	-0.80	-1.00
3	0.00	-0.00	-0.00	-0.00	-0.77
4	1.92	0.70	0.00	0.00	-0.62
5	6.00	0.70	0.00	0.00	-0.31
6	6.92	0.70	0.34	0.00	-0.24
7	7.92	1.02	0.70	0.00	-0.16
8	8.92	1.35	0.70	0.00	-0.08
9	10.00	1.70	1.05	0.00	0.00
10	31.54	8.70	8.05	0.00	1.08
11	33.54	8.70	8.70	0.00	1.18
12	40.00	8.70	8.70	0.00	1.50

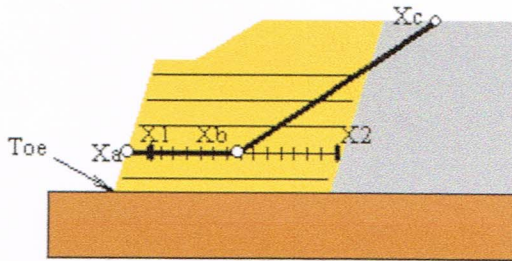
Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-entry' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

Results in the tables below represent critical circles identified between specified points on entry and exit. (Theta-exit set to 50.00 deg.) The most critical circle is obtained from a search considering all the combinations of input entry and exit points.

Note: In the 'Status' column, OK means the critical circle was identified within the specified search domain. 'On extreme X-exit' means that the critical result is on the edge of the search domain; a lower Fs may result if the search domain is expanded.

RESULTS OF TRANSLATIONAL ANALYSIS



Results in the table below represent critical two-part wedges identified between specified starting (X1) and ending (X2) search points. Wedges along all reinforcement layers and at elevation zero are reported. The critical two-part wedge, one for each predetermined elevation, is defined by Xa, Xb and Xc where Xa is the front end of the passive wedge (slope face), Xb is where the passive wedge ends and the active one starts, and Xc is the X-ordinate at which the active wedge starts.

Critical two-part wedge along each interface:

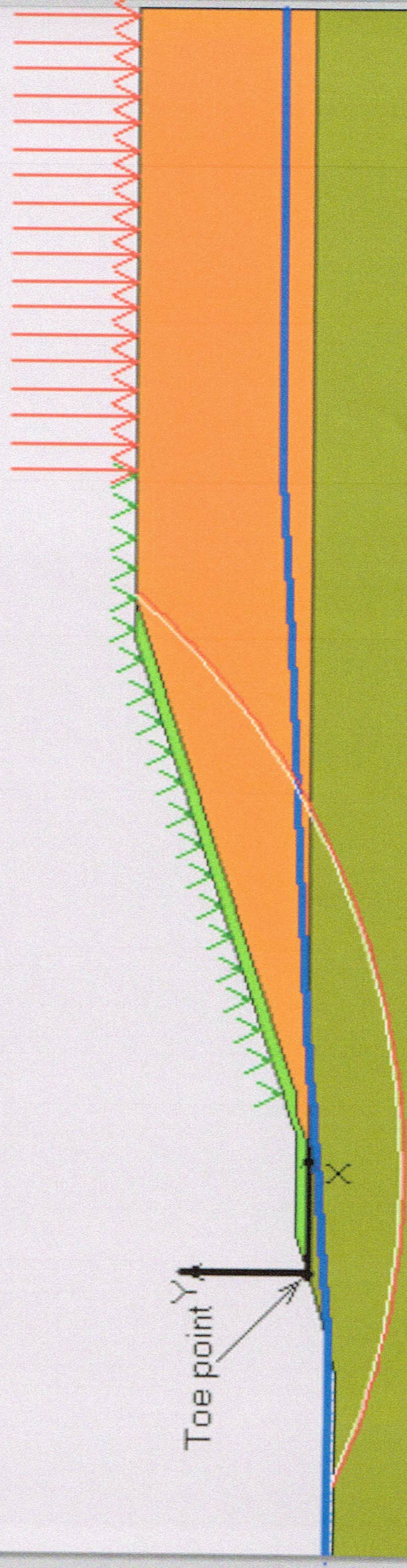
Interface	Height Relative to Toe [m]	(Xa, Ya) [m]	(Xb, Yb) [m]	(Xc, Yc) [m]	Fs	STATUS
At toe elevation	0.00	0.00 -0.00	0.20 -0.00	0.42 0.15	2.50	Minimum on Edge

Note: In the 'Status' column, OK means the critical two part-wedge was identified within the specified search domain. 'Minimum on Edge' means the critical result corresponds to a minimum on the edge of the search domain; i.e., either on X1 or X2 or the internally preset limits on Xc.

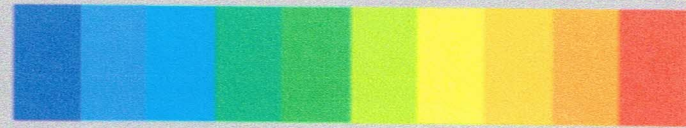
SCALE [m.]

l_0

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Color Code: Safety Factors



>3.00

2.91

2.82

2.74

2.65

2.56

2.47

2.39

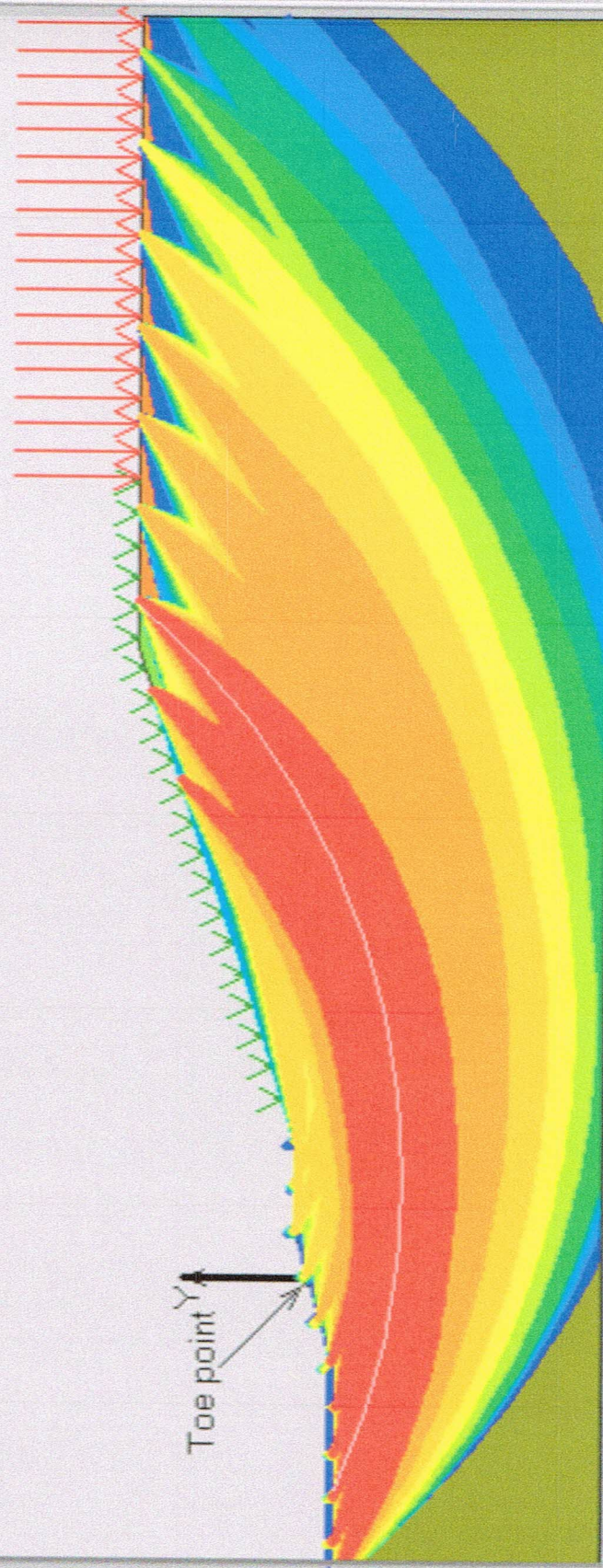
2.30

2.21

2.12

SCALE [m.]

T_0



Hide Scale