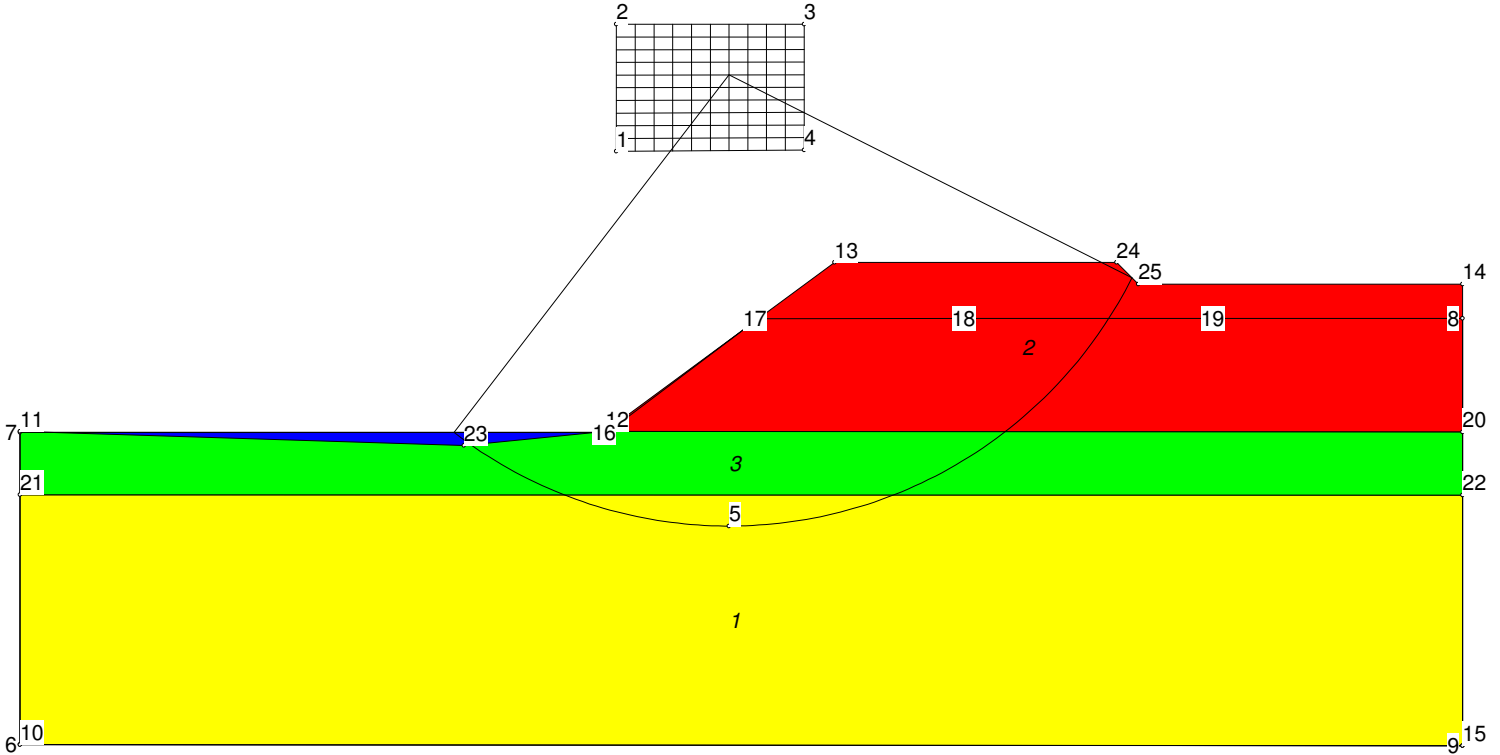


**ALL. 1 - Verifica stabilità sponda dx Rodano Campovolo**

**General Data**

Licensed User : MAIN ENGINEERING  
 File Name : Verifica stabilità sponda dx Rodano Camp.stb  
 Problem Name : **Verifica Condizioni svaso rapido - non drenate**  
 Number of Slices : 1000  
 Relative Horizontal Force:  $K_h=0,24 \times 1,439 \times 0,182 = 0.062555$   
 Number of Nodes : 25  
 Number of Soil Polygons : 3

**Figure with critical slip circle**



**F = 2.001**

**Input Data**

**Coordinates of Nodes**

Node	x	y
1	19.023	18.951
2	19.023	22.995
3	25.005	22.995
4	25.005	18.985
5	22.612	7.000
6	0.000	0.035
7	0.000	9.984
8	46.000	13.618
9	46.000	0.000
10	0.000	0.025
11	0.000	10.019
12	18.667	10.019
13	25.975	15.408
14	46.000	14.707
15	46.000	0.000
16	18.737	9.984
17	23.544	13.611
18	30.198	13.618
19	38.130	13.618
20	46.000	10.000
21	0.000	8.000
22	46.000	7.988
23	14.159	9.565
24	34.965	15.405
25	35.667	14.707

**stb, Verifica 1**

**Structure of Polygons**

Window of centers of slip circles

Nodes 1 2 3 4

Fixed point of all slip circles

Node 5

Water Polygon

Nodes 6 7 16 17 18 19 8 9

Soil Polygons

1 : Nodes 10 21 22 15  
 2 : Nodes 12 13 24 25 14 20  
 3 : Nodes 21 11 23 12 20 22

**Properties of Soils**

Soil	Wd kN/m <sup>3</sup>	Ws kN/m <sup>3</sup>	Ko --	c kN/m <sup>2</sup>	phi degrees	P/F	p=0 m	cap m
1	17.000	18.000	1.000	30.000	0.000	P		0.000
2	18.000	19.000	1.000	30.000	0.000	P		0.000
3	19.000	20.000	1.000	80.000	0.000	P		0.000

**Output Data**

**Safety Factors**

2.281	2.208	2.153	2.109	2.055	2.030	2.033	2.059	2.097	2.148	2.205
2.279	2.206	2.150	2.101	2.059	2.019	2.020	2.051	2.090	2.139	2.201
2.277	2.205	2.143	2.097	2.063	2.020	2.008	2.039	2.083	2.133	2.197
2.281	2.207	2.144	2.097	2.061	2.019	2.002	2.031	2.077	2.128	2.190
2.284	2.204	2.143	2.095	2.055	2.025	2.001	2.026	2.068	2.122	2.186
2.284	2.205	2.142	2.089	2.052	2.027	2.005	2.015	2.059	2.113	2.183
2.289	2.207	2.138	2.088	2.053	2.027	2.014	2.013	2.052	2.108	2.181
2.298	2.209	2.142	2.093	2.054	2.028	2.026	2.022	2.045	2.104	2.175
2.307	2.214	2.145	2.091	2.048	2.025	2.029	2.031	2.042	2.099	2.173
2.313	2.221	2.149	2.090	2.049	2.030	2.036	2.047	2.051	2.097	2.174
2.326	2.229	2.150	2.095	2.054	2.038	2.041	2.053	2.066	2.095	2.174

**Critical slip circle**

**Center: x = 22.612, y = 21.386, Radius: 14.386, F = 2.001**