



REGIONE PUGLIA COMUNE DI ACCADIA



COMPLETAMENTO DISSESTO IDROGEOLOGICO CENTRO URBANO VIA PERTINI

FINANZIAMENTO

P.O.R. Puglia 2014/2020 - Asse V - Azione 5.1 - "Interventi di riduzione del rischio idrogeologico e di erosione costiera". Programma di interventi cantierabili ai sensi della DGR n. 511 del 19.04.2016

Progetto N. 17328
Ottobre 2017

Progetto _____ **BONIFICA DISSESTO**
Fase Progettuale _____ PROGETTO ESECUTIVO
Localizzazione _____ ACCADIA - Via Pertini
Committente _____ COMUNE DI ACCADIA
Responsabile Unico del Procedimento _____ DOTT. ING. GIUSEPPE CELA
Progettista Raggruppamento temporaneo di professionisti _____

CAPOGRUPPO



AREA PROGETTO ASSOCIATI
Dott. Ing. Marco BALDUCCI
Dott. Ing. Roberto REGNI

MANDANTI:

Dott. Ing. Paolo COPPOLELLA

Dott. Ing. Donato COPPOLELLA



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Dott. Geol. Michele ROSSI




rev.	data	aggiornamento	redatto	verificato	approvato
00	Ottobre 2017	Emissione	Bruschini	Bartocci	Balducci

Verifica di stabilità versante
Fascicolo dei calcoli

scala

tav.


GEOTA

	VERIFICHE DI STABILITÀ VERSANTE - FASCICOLO DEI CALCOLI		
	Nome File: 17328GEOTA PE00	N° Pratica: 17328	Pagina1

COMUNE DI ACCADIA (FG)

PROGETTO INTERVENTO DI COMPLETAMENTO DISSESTO
IDROGEOLOGICO CENTRO URBANO VIA PERTINI

VERIFICHE DI STABILITÀ VERSANTE FASCICOLO DEI CALCOLI

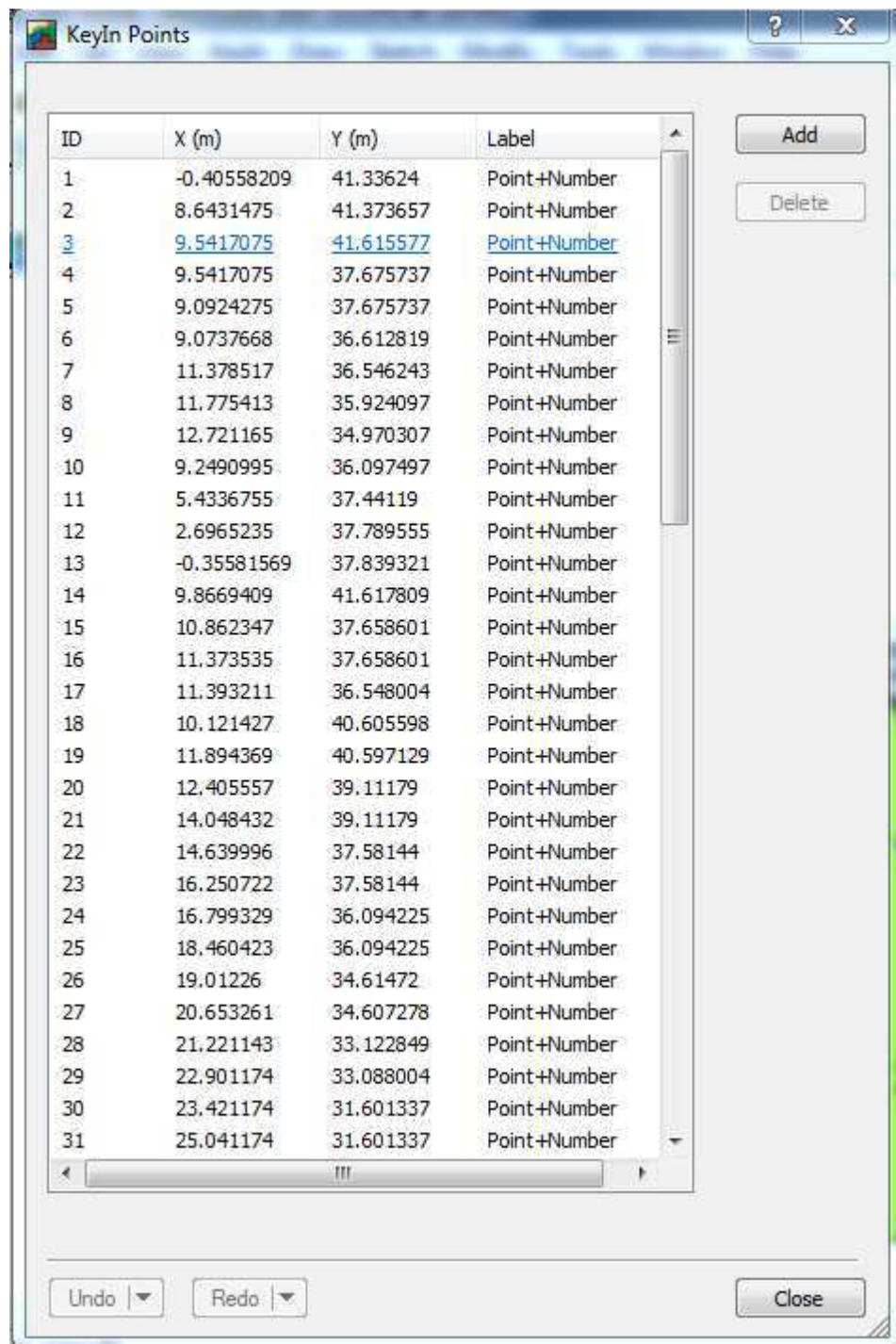
	VERIFICHE DI STABILITÀ VERSANTE - FASCICOLO DEI CALCOLI		
	Nome File: 17328GEOTA PE00	N° Pratica: 17328	Pagina2

INDICE

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SEZIONE 2

Dati di input



ID	X (m)	Y (m)	Label
1	-0.40558209	41.33624	Point+Number
2	8.6431475	41.373657	Point+Number
3	9.5417075	41.615577	Point+Number
4	9.5417075	37.675737	Point+Number
5	9.0924275	37.675737	Point+Number
6	9.0737668	36.612819	Point+Number
7	11.378517	36.546243	Point+Number
8	11.775413	35.924097	Point+Number
9	12.721165	34.970307	Point+Number
10	9.2490995	36.097497	Point+Number
11	5.4336755	37.44119	Point+Number
12	2.6965235	37.789555	Point+Number
13	-0.35581569	37.839321	Point+Number
14	9.8669409	41.617809	Point+Number
15	10.862347	37.658601	Point+Number
16	11.373535	37.658601	Point+Number
17	11.393211	36.548004	Point+Number
18	10.121427	40.605598	Point+Number
19	11.894369	40.597129	Point+Number
20	12.405557	39.11179	Point+Number
21	14.048432	39.11179	Point+Number
22	14.639996	37.58144	Point+Number
23	16.250722	37.58144	Point+Number
24	16.799329	36.094225	Point+Number
25	18.460423	36.094225	Point+Number
26	19.01226	34.61472	Point+Number
27	20.653261	34.607278	Point+Number
28	21.221143	33.122849	Point+Number
29	22.901174	33.088004	Point+Number
30	23.421174	31.601337	Point+Number
31	25.041174	31.601337	Point+Number

Buttons: Add, Delete, Undo, Redo, Close

KeyIn Points

ID	X (m)	Y (m)	Label
30	23.421174	31.601337	Point+Number
31	25.041174	31.601337	Point+Number
32	25.561174	30.101337	Point+Number
33	20.569137	30.108189	Point+Number
34	19.764292	31.624453	Point+Number
35	18.268415	31.615523	Point+Number
36	17.36971	33.084578	Point+Number
37	16.109191	33.068298	Point+Number
38	15.152561	34.586192	Point+Number
39	14.002125	34.597045	Point+Number
40	12.997841	36.120226	Point+Number
41	12.305248	36.117448	Point+Number
42	11.780899	37.638353	Point+Number
43	20.313972	30.514825	Point+Number
44	20.796769	30.103273	Point+Number
45	22.039366	30.106249	Point+Number
46	22.526829	29.133557	Point+Number
47	23.451082	28.666831	Point+Number
48	24.518211	28.654485	Point+Number
49	24.698767	28.182263	Point+Number
50	27.258952	30.16467	Point+Number
51	27.770063	28.636893	Point+Number
52	29.43673	28.61467	Point+Number
53	30.020063	27.16467	Point+Number
54	25.131144	27.128336	Point+Number
55	22.90247	28.640596	Point+Number
56	26.380013	27.138483	Point+Number
57	35.685011	21.728279	Point+Number
58	50.515398	14.283225	Point+Number
59	59.911295	9.8639688	Point+Number
60	74.044952	4.3100386	Point+Number

Buttons: Add, Delete, Undo, Redo, Close

KeyIn Points


ID	X (m)	Y (m)	Label
61	73.965326	9.5056507	Point+Number
62	70.382145	10.83939	Point+Number
63	67.654947	12.670794	Point+Number
64	59.214565	15.975283	Point+Number
65	57.880826	16.751639	Point+Number
66	52.625494	17.946032	Point+Number
67	48.734756	20.430633	Point+Number
68	45.322991	21.254162	Point+Number
69	37.293388	27.157977	Point+Number
70	-0.31687846	-6.240279	Point+Number
71	74.238508	-6.2058804	Point+Number
72	-0.36882582	41.898004	Point+Number
73	8.4700631	41.898004	Point+Number
74	35.09235	26.161151	Point+Number
75	30.0303	26.145612	Point+Number
76	35.100392	27.159995	Point+Number
77	35.103958	26.329717	Point+Number
78	37.006558	26.337317	Point+Number
79	37.007464	27.15824	Point+Number
80	---	---	Point+Number

KeyIn Regions

Region	Points
1	1,2,3,4,5,6,7,8,9,10,11,12,13
2	3,14,18,15,16,17,7,6,5,4
3	18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,45,44...
4	9,8,7,17,16,42,41,40,39,38,37,36,35
5	35,34,43
6	44,45,46
7	47,48,49
8	45,32,50,51,52,53,56,54,49,48,47,55,46
9	56,57,58,59,60,61,62,63,64,65,66,67,68,69,79,78,77...
10	13,70,71,60,59,58,57,56,54,49,47,55,46,44,33,43,35...
11	53,75,74,77,76
12	76,77,78,79
13	56,53,75

Add ▼

Delete


Name: ALT1 Color:  Set...

Material Model: Mohr-Coulomb ▼

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ ... Cohesion: 5 kPa ...

Phi: 21 ° ...


Name: ALT2 Color:  Set...

Material Model: Mohr-Coulomb ▼

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ ... Cohesion: 0 kPa ...

Phi: 18 ° ...


Name: Color: 

Material Model:

Basic

Unit Weight: Cohesion:

Phi:


Name: Color: 

Material Model:

Basic

Unit Weight: Cohesion:

Phi:


Name: Color: 

Material Model:

Basic

Unit Weight: Cohesion:

Phi:


Name: ALT1 (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 4 kPa

Phi: 17 °


Name: ALT2 (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 4 kPa

Phi: 14.6 °


Name: BNA3 (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 17.6 kPa

Phi: 17 °

Name: Tratt.Calce (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19 kN/m³ Cohesion: 12 kPa

Phi: 26.6 °

KeyIn Piezometric Lines

Piezometric Line

1

Add

Delete

Points Materials Properties

X (m)	Y (m)
-0.35075333	32.108386
34.500173	14.307113
40.462586	12.386528
74.100987	1.2656447
---	---

Add

Delete

Undo

Redo

Close

KeyIn Seismic Load

Coefficient

Horizontal: 0.084

Vertical: None

☐ Ignore seismic load in base shear strength calculations.

OK

Cancel

KeyIn Reinforcement Loads

Reinf.	Type	Outside Pt X	Outside Pt Y	Inside Pt X	Inside Pt Y
1	Pile	36.450538	27.158753	36.450538	15.158753
2	Pile	35.644077	27.159495	35.644077	15.159495
3	Fabric	30.020063	27.16467	25.120427	27.139053
4	Fabric	27.770063	28.636893	22.856174	28.654485

1 Pile 36.450538 m 27.158753 m 36.450538 m 15.158753 m

F of S Dependent: No Load Distribution: Conc. in 1 slice

Pile Spacing: 2.2 m

Shear Force: 290 kN

Shear Safety Factor: 1

Apply Shear: Parallel to Slip

KeyIn Reinforcement Loads

Reinf.	Type	Outside Pt X	Outside Pt Y	Inside Pt X	Inside Pt Y
8	Fabric	19.01226	34.61472	14.012978	34.607898
9	Fabric	16.799329	36.094225	12.305248	36.117448
10	Fabric	14.639996	37.58144	11.373535	37.658601
11	Fabric	12.405557	39.11179	10.508393	39.066446

11 Fabric 12.405557 m 39.11179 m 10.508393 m 39.066446 m

F of S Dependent: No Load Distribution: Conc. in 1 slice

☐ Bond Skin Friction (F/Area): Fabric Capacity: 165 kN

☒ Calculate Bond Resistance from: Fabric Safety: 1

Contact Cohesion: 12 kPa Load Orientation: 0

Contact Phi: 26.6 ° (0 - Axial, 1 - Parallel to Slice Base)

Interface Factor: 2

Bond Safety Factor: 1

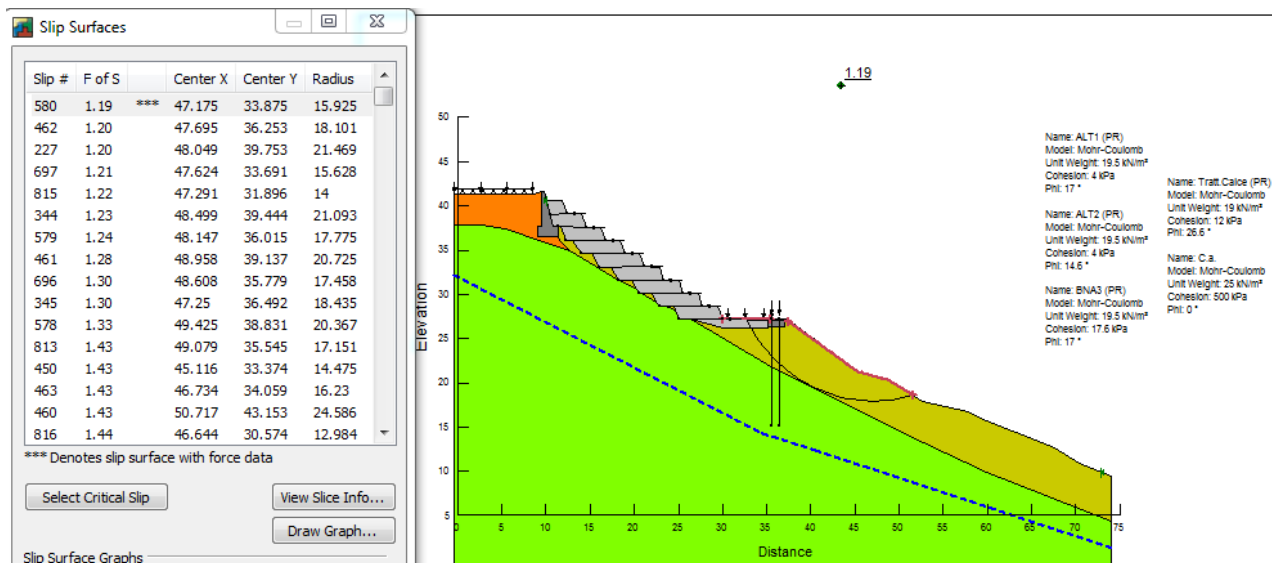
Applied Load: 0 - 165 kN Bond Resistance: ---

Undo Redo Close

VERIFICHE A VALLE DELLE TERRE RINFORZATE

KeyIn Slip Surface Entry and Exit Range

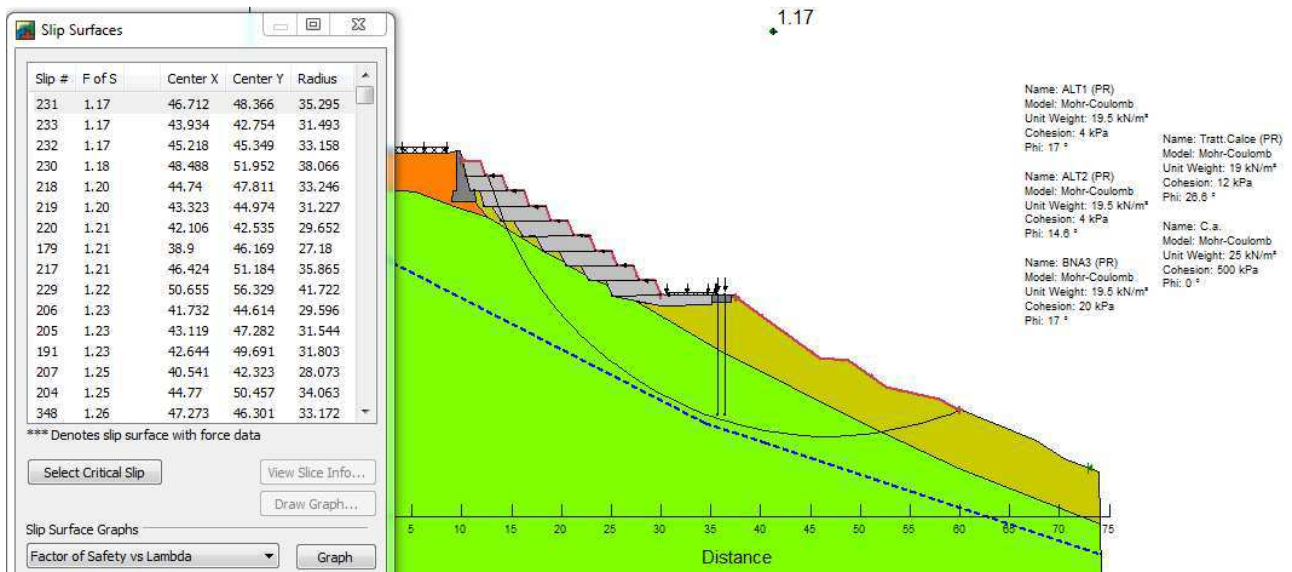
Entry Range (Left Side)			Exit Range (Right Side)		
Type:	Left Point:	Right Point:	Type:	Left Point:	Right Point:
Range	X: 30.000000 Y: 27.214542	X: 35.500000 Y: 27.159628	Range	X: 37.510136 Y: 26.998611	X: 51.626417 Y: 18.584036
Number of increments over range: 8			Number of increments over range: 8		
Number of radius increments: 12					
Slip Surface Projection Angle					
<input type="checkbox"/> Use Left (Active) Projection Angle: 135			<input type="checkbox"/> Use Right (Passive) Projection Angle: 45		
Clear			OK Cancel Apply		



VERIFICHE STABILITA' GLOBALE PARATIA

KeyIn Slip Surface Entry and Exit Range

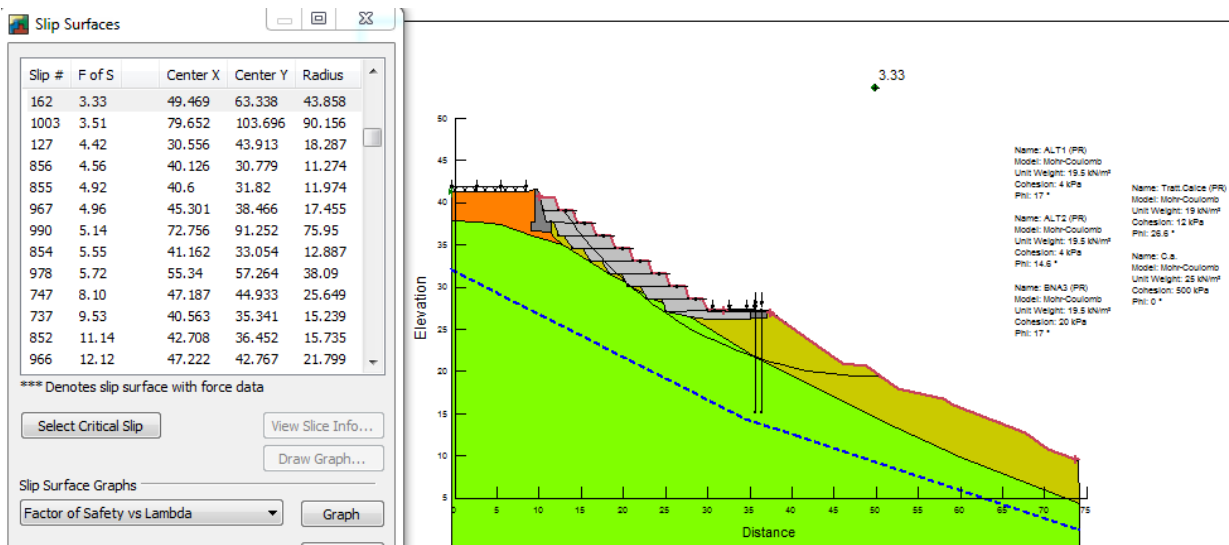
Entry Range (Left Side)			Exit Range (Right Side)		
Type:	Left Point:	Right Point:	Type:	Left Point:	Right Point:
Range	X: 10.032051 Y: 40.961087	X: 34.000000 Y: 27.161008	Range	X: 37.511314 Y: 27.000000	X: 60.000000 Y: 15.667778
Number of increments over range:		8	Number of increments over range:		8
Number of radius increments: 12					
Slip Surface Projection Angle					
<input type="checkbox"/> Use Left (Active) Projection Angle:		135	<input type="checkbox"/> Use Right (Passive) Projection Angle: 45		
Clear		OK		Cancel	
				Apply	



VERIFICHE ESTESE AL VERSANTE

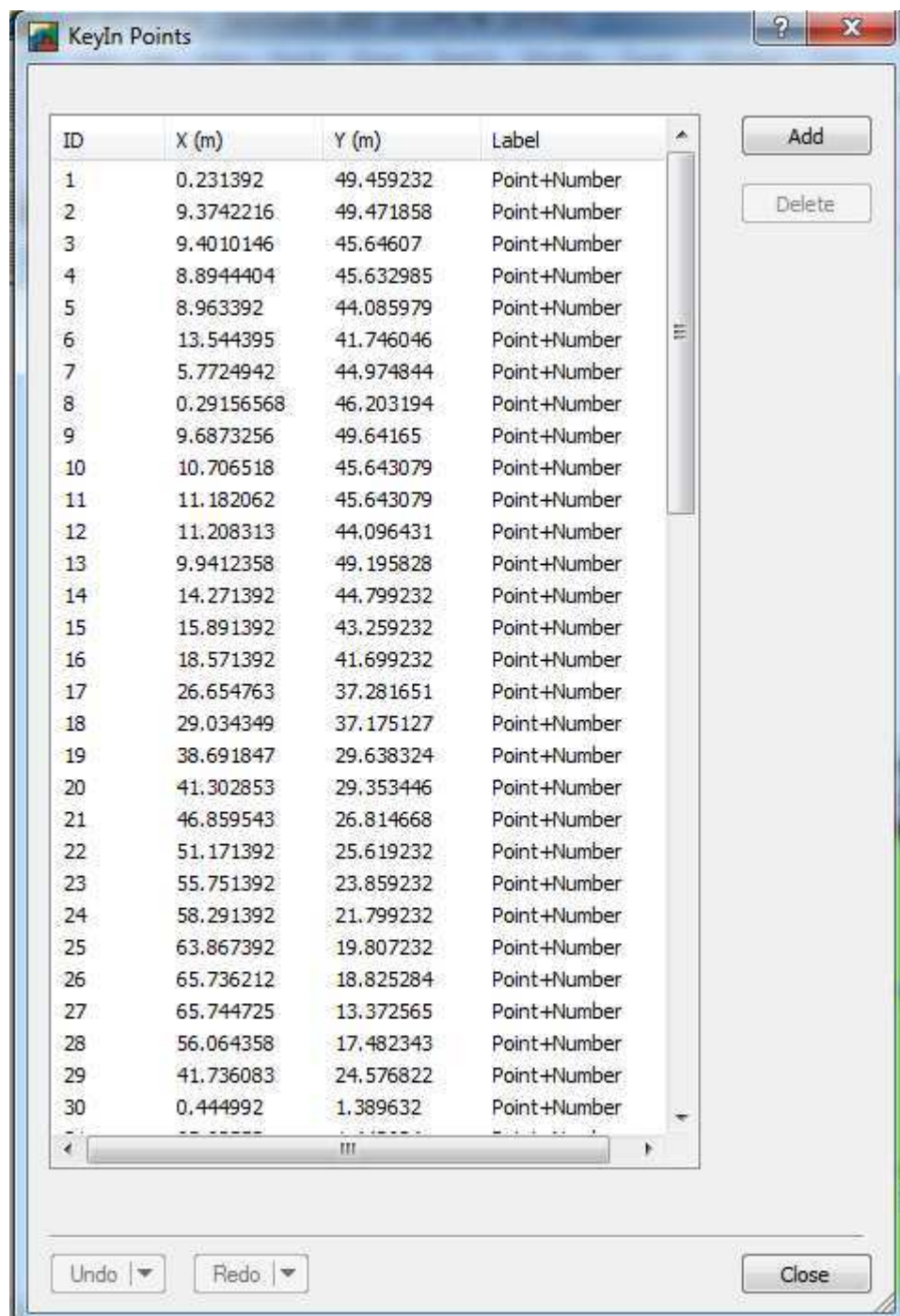
KeyIn Slip Surface Entry and Exit Range

Entry Range (Left Side)			Exit Range (Right Side)		
Type:	Left Point:	Right Point:	Type:	Left Point:	Right Point:
Range	X: 10.104346 Y: 40.673536	X: 32.000000 Y: 27.162848	Range	X: 37.511314 Y: 27.000000	X: 73.685333 Y: 9.609871
Number of increments over range:		8	Number of increments over range:		8
Number of radius increments: 12					
Slip Surface Projection Angle					
<input type="checkbox"/> Use Left (Active) Projection Angle:		135	<input type="checkbox"/> Use Right (Passive) Projection Angle: 45		
Clear		OK		Cancel	
				Apply	



SEZIONE 4

Dati di input



ID	X (m)	Y (m)	Label
1	0.231392	49.459232	Point+Number
2	9.3742216	49.471858	Point+Number
3	9.4010146	45.64607	Point+Number
4	8.8944404	45.632985	Point+Number
5	8.963392	44.085979	Point+Number
6	13.544395	41.746046	Point+Number
7	5.7724942	44.974844	Point+Number
8	0.29156568	46.203194	Point+Number
9	9.6873256	49.64165	Point+Number
10	10.706518	45.643079	Point+Number
11	11.182062	45.643079	Point+Number
12	11.208313	44.096431	Point+Number
13	9.9412358	49.195828	Point+Number
14	14.271392	44.799232	Point+Number
15	15.891392	43.259232	Point+Number
16	18.571392	41.699232	Point+Number
17	26.654763	37.281651	Point+Number
18	29.034349	37.175127	Point+Number
19	38.691847	29.638324	Point+Number
20	41.302853	29.353446	Point+Number
21	46.859543	26.814668	Point+Number
22	51.171392	25.619232	Point+Number
23	55.751392	23.859232	Point+Number
24	58.291392	21.799232	Point+Number
25	63.867392	19.807232	Point+Number
26	65.736212	18.825284	Point+Number
27	65.744725	13.372565	Point+Number
28	56.064358	17.482343	Point+Number
29	41.736083	24.576822	Point+Number
30	0.444992	1.389632	Point+Number

KeyIn Points

ID	X (m)	Y (m)	Label
31	65.63552	1.442624	Point+Number
32	9.3804525	49.636977	Point+Number
33	17.264633	38.897546	Point+Number
34	18.01232	38.892473	Point+Number
35	18.838707	37.389702	Point+Number
36	20.662927	35.878903	Point+Number
37	18.994446	40.402671	Point+Number
38	20.143828	40.394596	Point+Number
39	20.687713	38.907324	Point+Number
40	21.842926	38.907324	Point+Number
41	22.392494	37.402555	Point+Number
42	10.205012	47.909453	Point+Number
43	27.655836	31.996639	Point+Number
44	28.665166	37.186031	Point+Number
45	26.673712	37.576222	Point+Number
46	28.663006	37.603014	Point+Number
47	16.045497	40.429182	Point+Number
48	0.22748854	50.037593	Point+Number
49	8.6725284	49.470889	Point+Number
50	9.0098531	50.008122	Point+Number
51	23.359026	38.396003	Point+Number
52	27.593565	37.54054	Point+Number
53	16.906805	38.779751	Point+Number
54	18.666779	37.208345	Point+Number
55	11.202109	44.938839	Point+Number
56	12.15275	44.900633	Point+Number
57	12.696732	43.388287	Point+Number
58	13.827133	41.879799	Point+Number
59	14.317102	41.852793	Point+Number
60	15.065559	40.463904	Point+Number

Add

Delete

Undo | Redo | Close

KeyIn Points


ID	X (m)	Y (m)	Label
61	11.659392	47.821979	Point+Number
62	12.139392	46.437979	Point+Number
63	13.379392	46.437979	Point+Number
64	13.891392	44.885979	Point+Number
65	15.163392	44.909979	Point+Number
66	15.611392	43.357979	Point+Number
67	16.683392	43.357979	Point+Number
68	17.307392	41.893979	Point+Number
69	18.379392	41.893979	Point+Number
70	13.267392	43.413978	Point+Number
71	---	---	Point+Number
72	28.667733	36.583518	Point+Number
73	26.657886	36.60236	Point+Number
74	26.651385	36.314813	Point+Number
75	22.391483	36.448772	Point+Number
76	11.082194	44.095843	Point+Number
77	8.943216	44.538649	Point+Number
78	---	---	Point+Number

Buttons: Add, Delete, Undo, Redo, Close

KeyIn Regions 38.615725, 58.632955

Region	Points
1	1,49,2,3,4,77,7,8
2	2,32,9,13,42,10,11,55,12,76,5,77,4,3
3	8,30,31,27,28,29,43,36,54,53,6,76,5,77,7
4	39,40,41,35,34,33,47,37,38
5	18,19,20,21,22,23,24,25,26,27,28,29,43,36,54,53,33...
6	42,61,62,63,64,65,66,67,68,69,37,47,60,59,58,70,57...
7	55,56,57,70,58,59,60,47,33,53,6,76,12
8	17,73,72,44
9	41,75,74,17
10	35,41,75

Buttons: Add, Delete


Name: ALT1 Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 5 kPa

Phi: 21 °


Name: ALT2 Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 0 kPa

Phi: 18 °


Name: BNA3 Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 20 kPa

Phi: 22 °


Name: C.a. Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 25 kN/m³ Cohesion: 500 kPa

Phi: 0 °


Name: Tratt.Calce Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19 kN/m³ Cohesion: 15 kPa

Phi: 32 °


Name: ALT1 (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 4 kPa

Phi: 17 °


Name: ALT2 (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 4 kPa

Phi: 14.6 °


Name: BNA3 (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19.5 kN/m³ Cohesion: 17.6 kPa

Phi: 17 °

Name: Tratt. Calce (PR) Color:  Set...

Material Model: Mohr-Coulomb

Basic Suction Drawdown Liquefaction Advanced

Unit Weight: 19 kN/m³ Cohesion: 12 kPa

Phi: 26.6 °

KeyIn Piezometric Lines

Piezometric Line

1

Add

Delete

Points Materials Properties

X (m)	Y (m)
0.31743441	38.647321
4.347392	36.943232
14.355392	31.543232
35.091392	20.455232
48.723392	14.935232

Add

Delete

Undo

Redo

Close

KeyIn Seismic Load

Coefficient

Horizontal: 0.084

Vertical: None

☐ Ignore seismic load in base shear strength calculations.

OK

Cancel

KeyIn Reinforcement Loads

Reinf.	Type	Outside Pt X	Outside Pt Y	Inside Pt X	Inside Pt Y
1	Pile	36.450538	27.158753	36.450538	15.158753
2	Pile	35.644077	27.159495	35.644077	15.159495
3	Fabric	30.020063	27.16467	25.120427	27.139053
4	Fabric	27.770063	28.636893	22.856174	28.654485

1 Pile 36.450538 m 27.158753 m 36.450538 m 15.158753 m

F of S Dependent: No Load Distribution: Conc. in 1 slice

Pile Spacing: 2.2 m

Shear Force: 290 kN

Shear Safety Factor: 1

Apply Shear: Parallel to Slip

KeyIn Reinforcement Loads

Reinf.	Type	Outside Pt X	Outside Pt Y	Inside Pt X	Inside Pt Y
8	Fabric	19.01226	34.61472	14.012978	34.607898
9	Fabric	16.799329	36.094225	12.305248	36.117448
10	Fabric	14.639996	37.58144	11.373535	37.658601
11	Fabric	12.405557	39.11179	10.508393	39.066446

11 Fabric 12.405557 m 39.11179 m 10.508393 m 39.066446 m

F of S Dependent: No Load Distribution: Conc. in 1 slice

☐ Bond Skin Friction (F/Area): Fabric Capacity: 165 kN

☒ Calculate Bond Resistance from: Fabric Safety: 1

Contact Cohesion: 12 kPa Load Orientation: 0

Contact Phi: 26.6 ° (0 - Axial, 1 - Parallel to Slice Base)

Interface Factor: 2

Bond Safety Factor: 1

Applied Load: 0 - 165 kN Bond Resistance: ---

Undo Redo Close

VERIFICHE A VALLE DELLE TERRE RINFORZATE

KeyIn Slip Surface Entry and Exit Range

Entry Range (Left Side)			Exit Range (Right Side)		
Type:	Left Point:	Right Point:	Type:	Left Point:	Right Point:
Range	X: 22.000000 Y: 38.477241	X: 27.000000 Y: 37.265231	Range	X: 30.000000 Y: 36.421523	X: 40.000000 Y: 29.495596
Number of increments over range: 4			Number of increments over range: 4		
Number of radius increments: 8					
Slip Surface Projection Angle					
<input type="checkbox"/> Use Left (Active) Projection Angle: 135			<input type="checkbox"/> Use Right (Passive) Projection Angle: 45		
Clear			OK Cancel Apply		

Slip Surfaces

Slip #	F of S		Center X	Center Y	Radius
690	1.32	***	36.853	42.202	13.091
590	1.39		37.781	44.978	15.641
789	1.39		37.232	42.053	12.859
681	1.42		36.347	41.902	12.51
781	1.42		35.778	40.063	10.855
581	1.46		37.269	44.529	14.975
689	1.50		38.166	44.765	15.379
780	1.51		36.742	41.754	12.294
880	1.51		36.17	39.963	10.657
790	1.53		36.275	40.253	11.384
490	1.57		39.358	49.275	19.79
680	1.58		37.67	44.318	14.73
481	1.59		38.842	48.607	18.978

*** Denotes slip surface with force data

Select Critical Slip

View Slice Info...

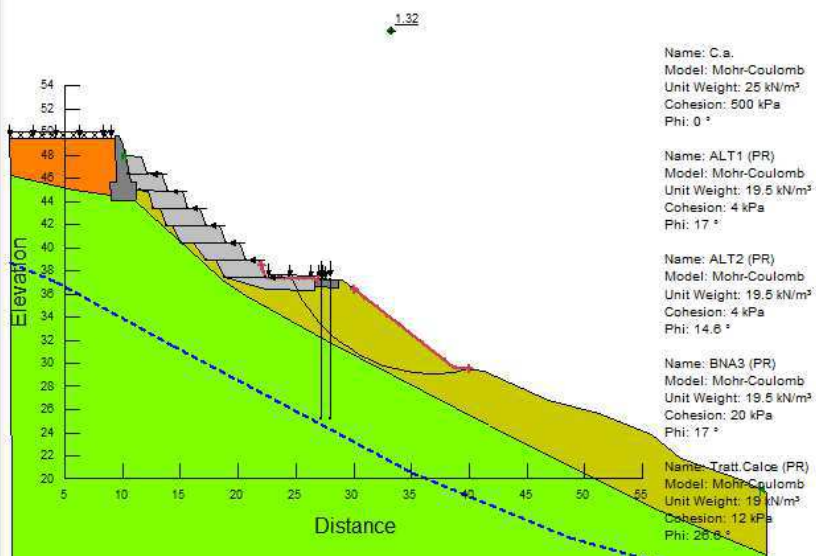
Draw Graph...

Slip Surface Graphs

Factor of Safety vs Lambda

Graph

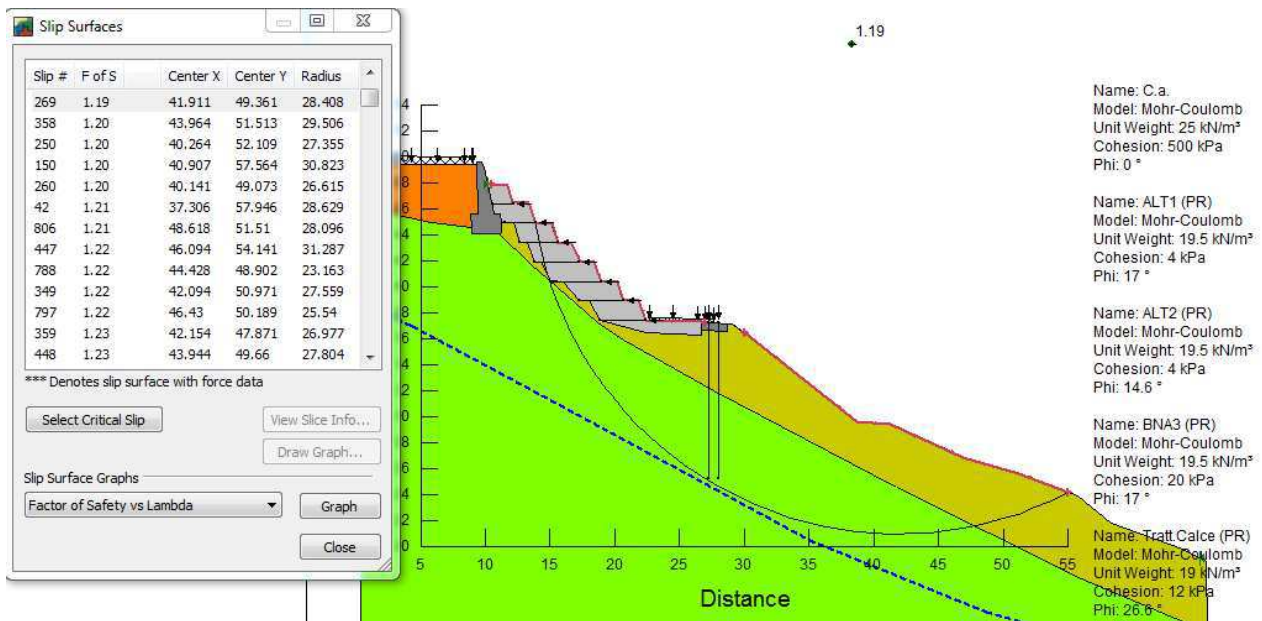
Close



VERIFICHE STABILITA' GLOBALE DELLA PARATIA

KeyIn Slip Surface Entry and Exit Range

Entry Range (Left Side)			Exit Range (Right Side)		
Type:	Left Point:	Right Point:	Type:	Left Point:	Right Point:
Range	X: 11.000000 Y: 47.861638	X: 12.000000 Y: 46.839892	Range	X: 30.000000 Y: 36.421523	X: 55.000000 Y: 24.147977
Number of increments over range: 4			Number of increments over range: 4		
Number of radius increments: 8					
Slip Surface Projection Angle					
<input type="checkbox"/> Use Left (Active) Projection Angle: 135			<input type="checkbox"/> Use Right (Passive) Projection Angle: 45		
Clear			OK Cancel Apply		



VERIFICHE ESTESE AL VERSANTE

KeyIn Slip Surface Entry and Exit Range

Entry Range (Left Side)			Exit Range (Right Side)		
Type:	Left Point:	Right Point:	Type:	Left Point:	Right Point:
Range	X: 10.500000 Y: 47.891711	X: 27.000000 Y: 37.265231	Range	X: 30.000000 Y: 36.421523	X: 50.000000 Y: 25.943994
Number of increments over range: 4			Number of increments over range: 4		
Number of radius increments: 8					
Slip Surface Projection Angle					
<input type="checkbox"/> Use Left (Active) Projection Angle: 135			<input type="checkbox"/> Use Right (Passive) Projection Angle: 45		
Clear			OK Cancel Apply		

Slip Surfaces

Slip #	F of S	Center X	Center Y	Radius
33	1.48	33.271	56.375	24.299
984	1.48	52.808	66.166	40.319
260	1.48	34.092	48.582	20.65
889	1.49	40.79	42.76	19.173
24	1.49	31.318	55.704	22.235
369	1.49	34.541	45.394	19.292
691	1.50	41.008	46.288	22.242
773	1.51	37.136	41.431	16.427
781	1.52	39.55	44.068	19.347
477	1.52	36.025	44.147	19.332
941	1.52	37.771	44.493	14.973
50	1.53	40.286	62.937	33.37
683	1.55	38.491	43.309	19.154

*** Denotes slip surface with force data

Select Critical Slip View Slice Info... Draw Graph...

Slip Surface Graphs

Factor of Safety vs Lambda Graph Close

