

DIREZIONE GENERALE ROMA

AUTOSTRADA A1 MILANO - NAPOLI
da progr. km 144+519 a progr. km 152+500

PIANO DI RISANAMENTO ACUSTICO
AI SENSI DELLA LEGGE QUADRO n. 447/95

PROGETTO DEFINITIVO

MACROINTERVENTI 106-107
REGGIO EMILIA - CORREGGIO - SAN MARTINO IN RIO - RUBIERA

GEOLOGIA E GEOTECNICA

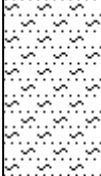
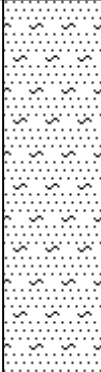
Titolo Elaborato

QUADERNO DELLE INDAGINI GEOGNOSTICHE BIBLIOGRAFICHE

Commessa	Codice Elaborato	Rev	Scala	Data	autostrade <i>per l'italia</i> Società per azioni IL RESPONSABILE UNICO DEL PROCEDIMENTO I.R.U.P. (<i>Daniela Trotti</i>) D. TROTTI	
OI 314	GEO-002	1		01-2019		
					IL RESPONSABILE PROGETTAZIONE INGEGNERE ROMA E. PAMPANA - 27082 Ord. Ing. ROMA N. A-27082	
					IL RESPONSABILE PROTEZIONI ANTIRUMORE E. PAMPANA	
Rev	Descrizione	Data	Redatto	Verificato	Approvato	Il Committente
0	EMISSIONE PER VALIDAZIONE TECNICA	09-2017	P. PELLEGRINI	G. PIACENTINI	E. PAMPANA	M. DONFERRI
1	EMISSIONE PER CDS	01-2019		E. PAMPANA	E. PAMPANA	M. DONFERRI
2						
3						

Note : Il foro è stato condizionato per tutta la sua lunghezza a piezometro DIN 60

Note : Il foro è stato condizionato per tutta la sua lunghezza a piezometro DIN 60

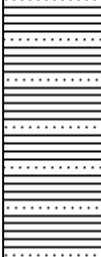
I.Geo. s.a.s. Indagini geognostiche-geofisiche-idrogeologiche Via Aldo Moro n. 2 - 81050 Pastorano (CE) Tel-fax: 0823/879116 E-Mail : igeo2004@virgilio.it			Committente : Società Autostrade per l'Italia S.p.A.					Sond. S27								
			Localita: A1 Km 149+000					Data 04/12/07								
Perforatrice: TEREDO DC 100		Lunghezza carotiere: 3.00 mt			diametro carotiere : 101 mm											
Sondatore: Messuri Angelo			Manuale: D'Onofrio Tommaso													
Prof. (m)	Pot. (m)	Stratig.	Descrizione Litologica	Falde (m)	camp. ind.	S.P.T.					% di carotaggio 25 50 75					
						Prof		n. colpi								
1.50	1.50		Conglomerati eterometrici (diam. Max = 5 cm) in matrice sabbiosa limosa	3.70 ==	4.00 C₁ 4.50 7.50 C₂ 8.00											
			Sabbia con limo poco compatta di colore bruno-ocra			2.50	2.95	3	3	3						
			Limo sabbioso grigio, a tratti ocra, poco compatto e a luoghi debolmente argilloso con plasticita da media a bassa													
9.00	5.00															
			Argilla limosa grigio chiara			9.00	9.45	5	4	6						
15.00																

Note : Il foro è stato condizionato per tutta la sua lunghezza a piezometro DIN 60

Note : Il foro è stato condizionato per tutta la sua lunghezza a piezometro DIN 60

I.Geo. s.a.s. Indagini geognostiche-geofisiche-idrogeologiche Via Aldo Moro n. 2 - 81050 Pastorano (CE) Tel-fax: 0823/879116 E-Mail : igeo2004@virgilio.it			Committente : Società Autostrade per l'Italia S.p.A.					Sond. S29					
			Localita: A1 Km 150+850					Data 22/11/07					
			Perforatrice: TEREDO DC 100		Lunghezza carotiere: 3.00 mt		diametro carotiere : 101 mm						
			Sondatore: Messuri Angelo			Manuale: D'Onofrio Tommaso							
Prof. (m)	Pot. (m)	Stratig.	Descrizione Litologica	Falde (m)	camp. ind.	S.P.T.					% di carotaggio		
						Prof		n. colpi			25 50 75		
1.00	1.00		Limo argilloso di colore marrone con inclusi litoidi eterometrici	3.30									
			Limo argilloso sabbioso di colore beige chiaro										
3.50	2.50												
			Limo sabbioso sciolto										
11.00	7.50												
			Conglomerati in matrice sabbiosa										
15.00													

Note : Il foro è stato condizionato per tutta la sua lunghezza a piezometro DIN 60

I.Geo. s.a.s. <i>Indagini geognostiche-geofisiche-idrogeologiche</i> <i>Via Aldo Moro n. 2 - 81050 Pastorano (CE)</i> <i>Tel-fax: 0823/879116</i> <i>E-Mail : igeo2004@virgilio.it</i>				Committente : Società Autostrade per l'Italia S.p.A.					Sond. S30					
				Localita: A1 Km 151+500					Data 05/12/07					
				Perforatrice: TEREDO DC 100		Lunghezza carotiere: 3.00 mt		diametro carotiere : 101 mm						
				Sondatore: Messuri Angelo			Manuale: D'Onofrio Tommaso							
Prof. (m)	Pot. (m)	Stratig.	Descrizione Litologica	Falde (m)	camp. ind.	S.P.T.					% di carotaggio			
						Prof		n. colpi			25	50	75	
2.00	2.00		Conglomerati eterometrici (diam. Max = 5 cm) in matrice sabbiosa limosa	3.50 =	3.00 C₁ 3.50	2.00	2.45	6	8	10				
2.50	0.50		Limo ghiaioso di colore bruno-ocra											
			Limo debolmente sabbioso, debolmente argilloso di colore bruno ocraceo, con qualche ciottolo sparso, poco consistente											
6.50	4.00													
			Argilla limosa grigio chiara											
15.00						9.00	9.45	2	1	2				

Note : Il foro è stato condizionato per tutta la sua lunghezza a piezometro DIN 60

I.Geo. s.a.s. Indagini geognostiche-geofisiche-idrogeologiche Via Aldo Moro n. 2 - 81050 Pastorano (CE) Tel-fax: 0823/879116 E-Mail : igeo2004@virgilio.it			Committente : Società Autostrade per l'Italia S.p.A.					Sond. S31				
			Localita: A1 Km 152+200					Data 06/12/07				
Perforatrice: TEREDO DC 100		Lunghezza carotiere: 3.00 mt		diametro carotiere : 101 mm								
			Sondatore: Messuri Angelo		Manuale: D'Onofrio Tommaso							
Prof. (m)	Pot. (m)	Stratig.	Descrizione Litologica	Falde (m)	camp. ind.	S.P.T.				% di carotaggio		
						Prof	n. colpi			25	50	75
2.00	2.00		Ciottoli	4.00 =								
4.50	2.50		Argilla da beige a marrone									
15.00			Argilla limosa grigio chiara									

Note : Il foro è stato condizionato per tutta la sua lunghezza a piezometro DIN 60

Km 146 + 350



**Sondaggio S25
Cassetta n. 2**

Da 5.00 m a 10.00 m

Km 146 + 350



**Sondaggio S25
Cassetta n. 3**

Da 10.00 m a 15.00 m

Km 149 + 000



**Sondaggio S27
Cassetta n. 1**

Da 0.00 m a 5.00 m

Km 149 + 000



**Sondaggio S27
Cassetta n. 2**

Da 5.00 m a 10.00 m

Km 149 + 000



**Sondaggio S27
Cassetta n. 3**

Da 10.00 m a 15.00 m

Km 149 + 500



**Sondaggio S28
Cassetta n. 1**

Da 0.00 m a 5.00 m

Km 149 + 500



**Sondaggio S28
Cassetta n. 2**

Da 5.00 m a 10.00 m

Km 149 + 500



**Sondaggio S28
Cassetta n. 3**

Da 10.00 m a 15.00 m

Km 150 + 850



**Sondaggio S29
Cassetta n. 1**

Da 0.00 m a 5.00 m

Km 150 + 850



**Sondaggio S29
Cassetta n. 2**

Da 5.00 m a 10.00 m

Km 150 + 850



**Sondaggio S29
Cassetta n. 3**

Da 10.00 m a 15.00 m

Km 151 + 500



**Sondaggio S30
Cassetta n. 1**

Da 0.00 m a 5.00 m

Km 151 + 500



**Sondaggio S30
Cassetta n. 2**

Da 5.00 m a 10.00 m

Km 151 + 500



**Sondaggio S30
Cassetta n. 3**

Da 10.00 m a 15.00 m

Km 152 + 200



**Sondaggio S31
Cassetta n. 1**

Da 0.00 m a 5.00 m

Km 152 + 200



**Sondaggio S31
Cassetta n. 2**

Da 5.00 m a 10.00 m

Km 152 + 200



**Sondaggio S31
Cassetta n. 3**

Da 10.00 m a 15.00 m

PROVA PENETROMETRICA STATICA (C.P.T.U.)

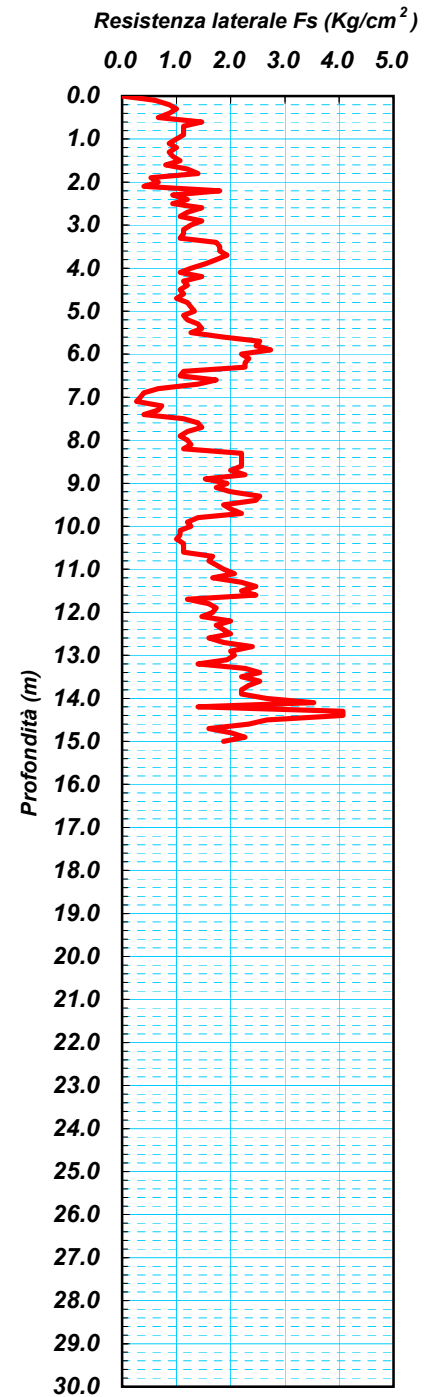
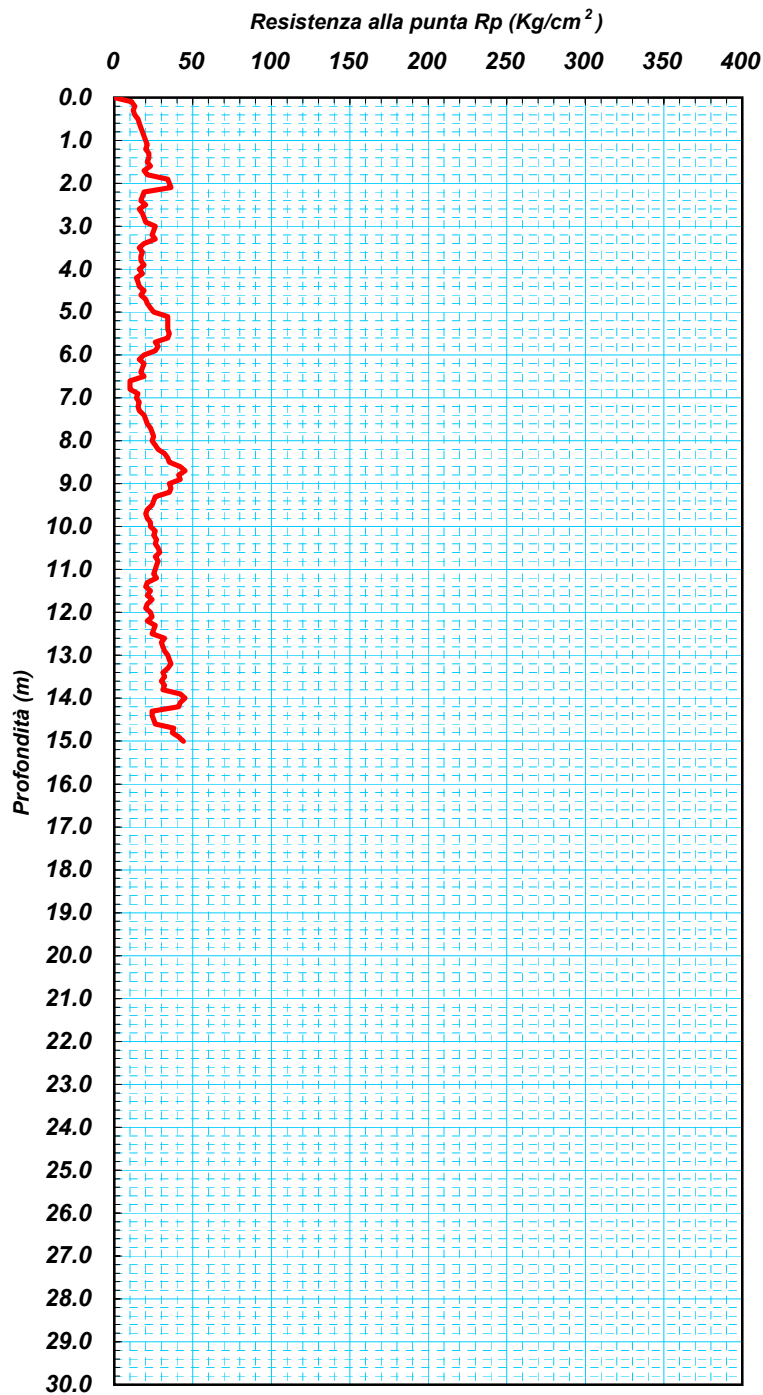
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 146+700

Prova (n): C.P.T.U - 35

Data esecuzione prova: 05/12/2007

Profondità prova (m) 15.00



PROVA PENETROMETRICA STATICA (C.P.T.U.)

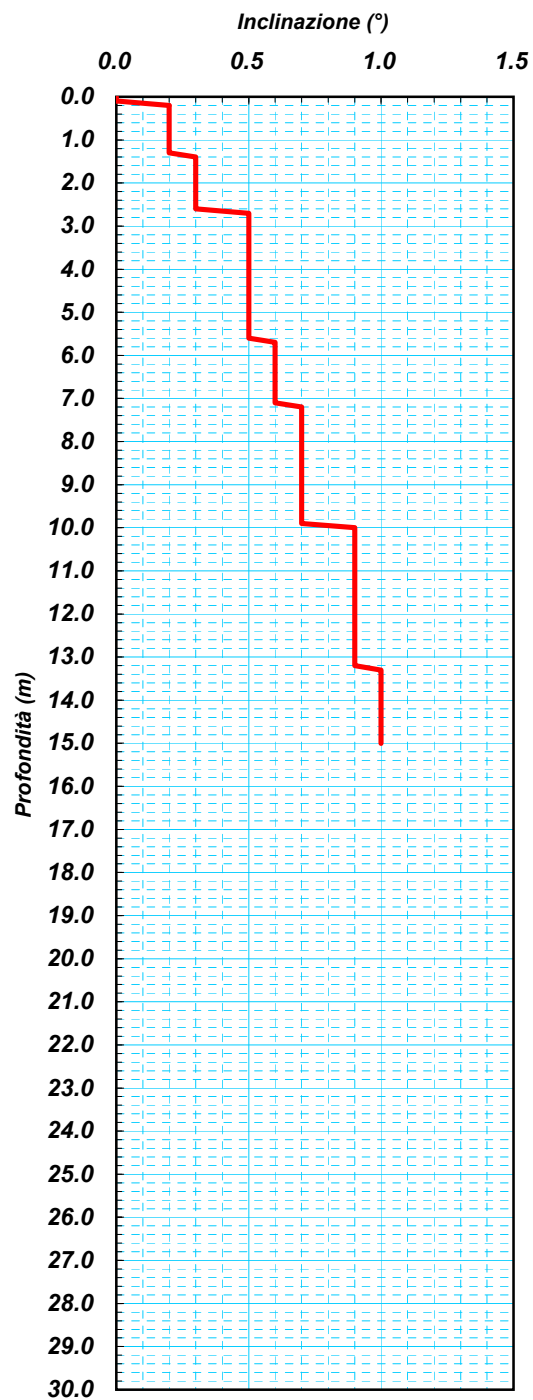
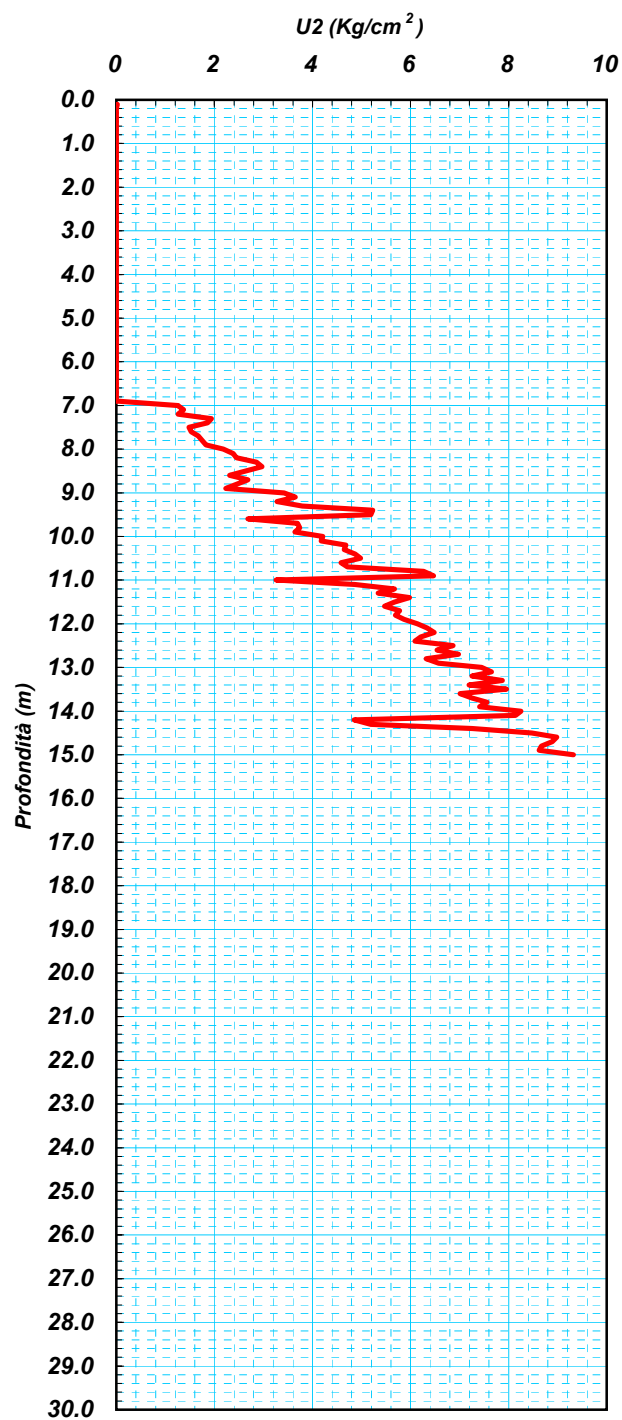
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 146+700

Prova (n): C.P.T.U - 35

Data esecuzione prova: 05/12/2007

Profondità prova (m) 15.00



Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 146+700

Data esecuzione prova: 05/12/07

Prova (n): C.P.T.U - 35

TABULATO DEI VALORI MISURATI

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
0.00	0.00	0.00	0.00	0.00	0.00
0.10	11	1	0.01	0.00	0.02
0.20	13	1	2.00	0.20	0.00
0.30	12	1	2.00	0.20	0.00
0.40	13	1	2.10	0.20	0.00
0.50	15	1	2.10	0.20	0.00
0.60	16	1	2.20	0.20	0.00
0.70	17	1	2.20	0.20	0.00
0.80	18	1	2.10	0.20	0.00
0.90	19	1	2.10	0.20	0.00
1.00	20	1	2.10	0.20	0.00
1.10	21	1	2.20	0.20	0.00
1.20	20	1	2.00	0.20	0.00
1.30	22	1	2.00	0.20	0.00
1.40	22	1	2.00	0.30	0.00
1.50	21	1	2.00	0.30	0.00
1.60	23	1	2.10	0.30	0.00
1.70	19	1	2.20	0.30	0.00
1.80	21	1	2.00	0.30	0.00
1.90	34	1	2.00	0.30	0.00
2.00	35	1	2.00	0.30	0.00
2.10	36	0	2.00	0.30	0.00
2.20	19	2	2.00	0.30	0.00
2.30	18	1	2.10	0.30	0.00
2.40	17	1	2.20	0.30	0.00
2.50	20	1	2.10	0.30	0.00
2.60	16	1	2.10	0.30	0.00
2.70	18	1	2.10	0.50	0.00
2.80	19	1	2.10	0.50	0.00
2.90	20	1	2.10	0.50	0.00
3.00	26	1	2.10	0.50	0.00
3.10	25	1	2.20	0.50	0.00
3.20	24	1	2.00	0.50	0.00
3.30	26	1	2.00	0.50	0.00
3.40	19	2	2.00	0.50	0.00
3.50	16	2	2.00	0.50	0.00
3.60	18	2	2.00	0.50	0.00
3.70	17	2	2.00	0.50	0.00
3.80	17	2	2.00	0.50	0.00
3.90	19	2	2.00	0.50	0.00
4.00	16	1	2.00	0.50	0.00
4.10	18	1	2.00	0.50	0.00
4.20	14	1	2.00	0.50	0.00
4.30	15	1	2.10	0.50	0.00
4.40	16	1	2.10	0.50	0.00
4.50	19	1	2.10	0.50	0.00
4.60	17	1	2.10	0.50	0.00
4.70	20	1	2.10	0.50	0.00
4.80	21	1	2.20	0.50	0.00
4.90	23	1	2.00	0.50	0.00
5.00	25	1	2.20	0.50	0.00
5.10	34	1	2.00	0.50	0.00
5.20	34	1	2.00	0.50	0.00
5.30	34	1	2.00	0.50	0.00
5.40	34	1	2.20	0.50	0.00
5.50	35	1	2.00	0.50	0.00
5.60	34	2	2.00	0.50	0.00
5.70	26	3	2.00	0.60	0.00
5.80	28	2	2.00	0.60	0.00
5.90	26	3	2.00	0.60	0.00

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
6.00	19	2	2.00	0.60	0.00
6.10	16	2	2.10	0.60	0.00
6.20	19	2	2.10	0.60	0.00
6.30	18	2	2.10	0.60	0.00
6.40	17	1	2.10	0.60	0.00
6.50	19	1	2.10	0.60	0.00
6.60	10	2	2.10	0.60	0.00
6.70	10	1	2.10	0.60	0.00
6.80	10	1	2.10	0.60	0.00
6.90	15	0	2.10	0.60	0.00
7.00	14	0	2.10	0.60	1.25
7.10	16	0	2.10	0.60	1.37
7.20	15	1	2.10	0.70	1.26
7.30	16	1	2.10	0.70	1.94
7.40	19	0	2.10	0.70	1.86
7.50	20	1	2.10	0.70	1.48
7.60	21	1	2.10	0.70	1.53
7.70	23	1	2.10	0.70	1.67
7.80	24	1	2.10	0.70	1.75
7.90	25	1	2.10	0.70	1.83
8.00	24	1	2.10	0.70	2.18
8.10	26	1	2.10	0.70	2.38
8.20	28	1	2.10	0.70	2.45
8.30	32	2	2.10	0.70	2.86
8.40	34	2	2.10	0.70	2.97
8.50	35	2	2.10	0.70	2.65
8.60	42	2	2.10	0.70	2.31
8.70	45	2	2.10	0.70	2.68
8.80	41	2	2.10	0.70	2.47
8.90	42	2	2.10	0.70	2.23
9.00	35	2	2.10	0.70	3.42
9.10	36	2	2.10	0.70	3.65
9.20	35	2	2.10	0.70	3.28
9.30	26	3	2.10	0.70	3.79
9.40	25	2	2.10	0.70	5.23
9.50	24	2	2.10	0.70	5.19
9.60	21	2	2.10	0.70	2.68
9.70	20	2	2.10	0.70	3.69
9.80	21	1	2.10	0.70	3.74
9.90	23	1	2.10	0.70	3.64
10.00	23	1	2.10	0.90	4.21
10.10	26	1	2.10	0.90	4.18
10.20	25	1	2.10	0.90	4.68
10.30	27	1	2.10	0.90	4.65
10.40	26	1	2.10	0.90	4.87
10.50	28	1	2.10	0.90	4.98
10.60	29	1	2.10	0.90	4.58
10.70	26	2	2.10	0.90	4.71
10.80	28	2	2.10	0.90	6.27
10.90	27	2	2.10	0.90	6.47
11.00	26	2	2.10	0.90	3.26
11.10	25	2	2.10	0.90	4.86
11.20	27	2	2.10	0.90	5.67
11.30	21	2	2.10	0.90	5.34
11.40	20	2	2.10	0.90	5.98
11.50	23	2	2.10	0.90	5.67
11.60	21	2	2.10	0.90	5.47
11.70	24	1	2.10	0.90	5.78
11.80	21	2	2.10	0.90	5.69
11.90	20	2	2.10	0.90	5.87

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
12.00	23	2	2.10	0.90	6.14
12.10	24	1	2.10	0.90	6.34
12.20	21	2	2.10	0.90	6.48
12.30	26	2	2.20	0.90	6.21
12.40	25	2	2.20	0.90	6.09
12.50	24	2	2.20	0.90	6.87
12.60	32	2	2.20	0.90	6.54
12.70	30	2	2.20	0.90	6.98
12.80	31	2	2.20	0.90	6.32
12.90	32	2	2.20	0.90	6.57
13.00	34	2	2.20	0.90	7.45
13.10	35	2	2.20	0.90	7.65
13.20	36	1	2.20	0.90	7.25
13.30	34	2	2.20	1.00	7.87
13.40	31	3	2.20	1.00	7.19
13.50	32	2	2.20	1.00	7.96
13.60	30	3	2.20	1.00	7.01
13.70	32	2	2.20	1.00	7.26
13.80	31	2	2.20	1.00	7.56
13.90	42	2	2.20	1.00	7.41
14.00	45	3	2.20	1.00	8.25
14.10	42	4	2.20	1.00	8.14
14.20	41	1	2.20	1.00	4.85
14.30	24	4	2.20	1.00	5.19
14.40	24	4	2.20	1.00	7.26
14.50	25	3	2.20	1.00	8.47
14.60	26	2	2.20	1.00	8.98
14.70	38	2	2.20	1.00	8.89
14.80	37	2	2.20	1.00	8.67
14.90	41	2	2.20	1.00	8.62
15.00	44	2	2.20	1.00	9.32

PROVA PENETROMETRICA STATICA (C.P.T.U.)

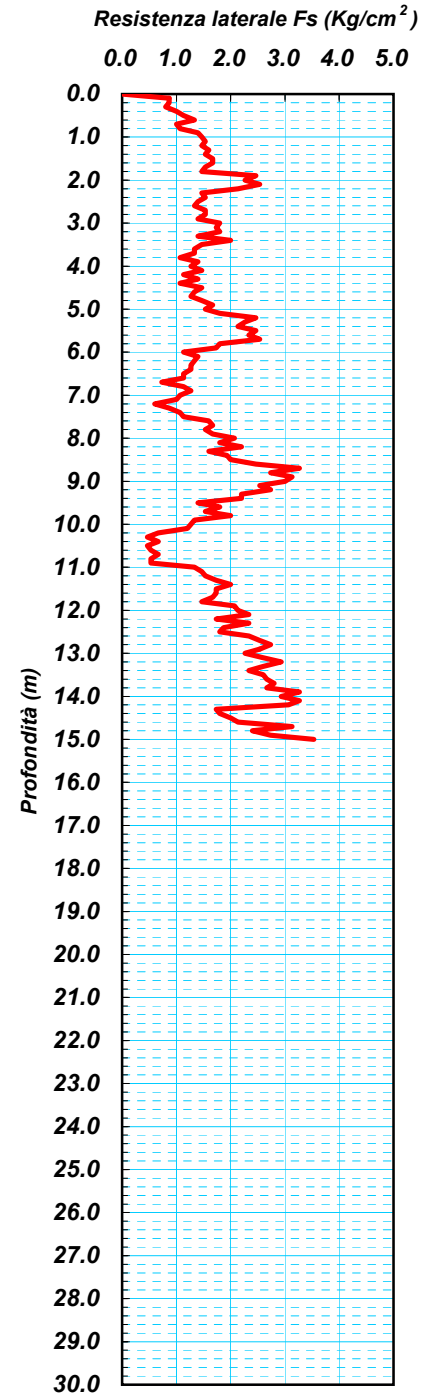
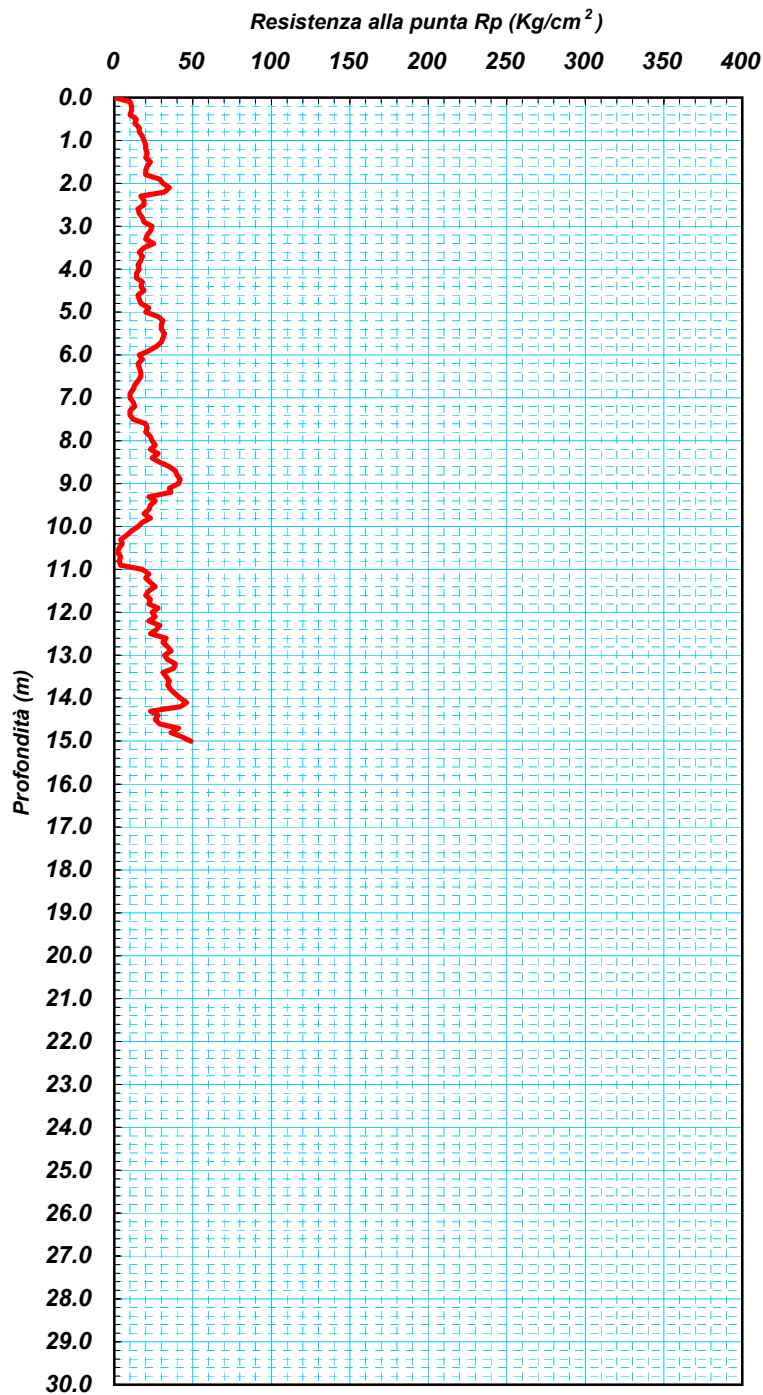
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 147+700

Prova (n): C.P.T.U - 36

Data esecuzione prova: 05/12/2007

Profondità prova (m) 15.00



PROVA PENETROMETRICA STATICA (C.P.T.U.)

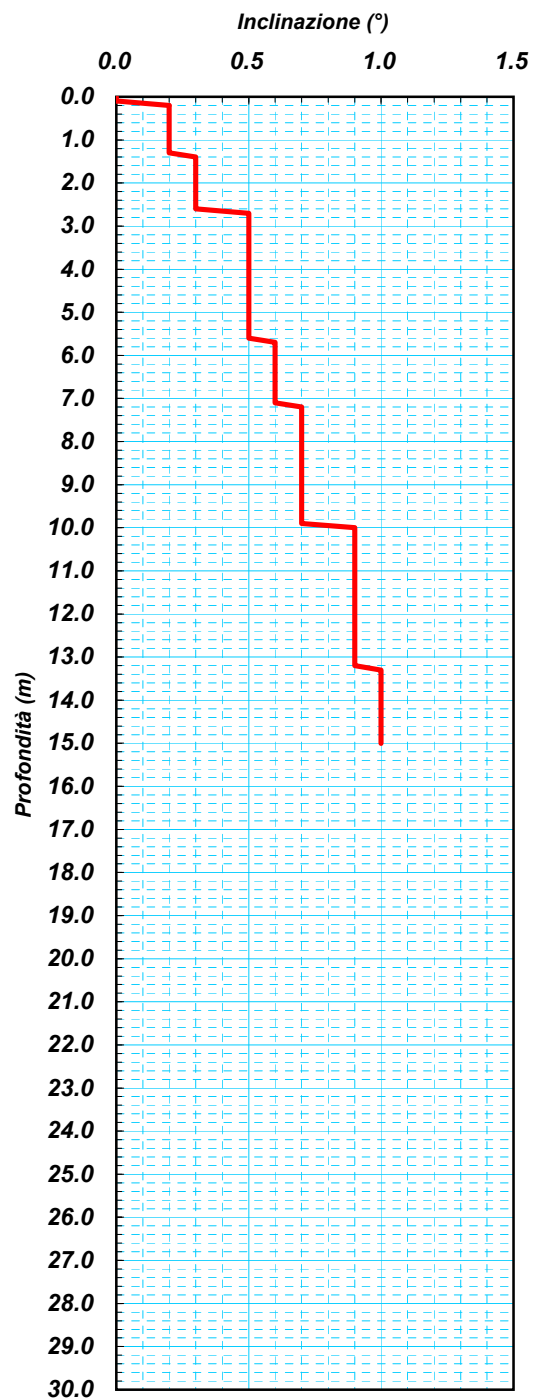
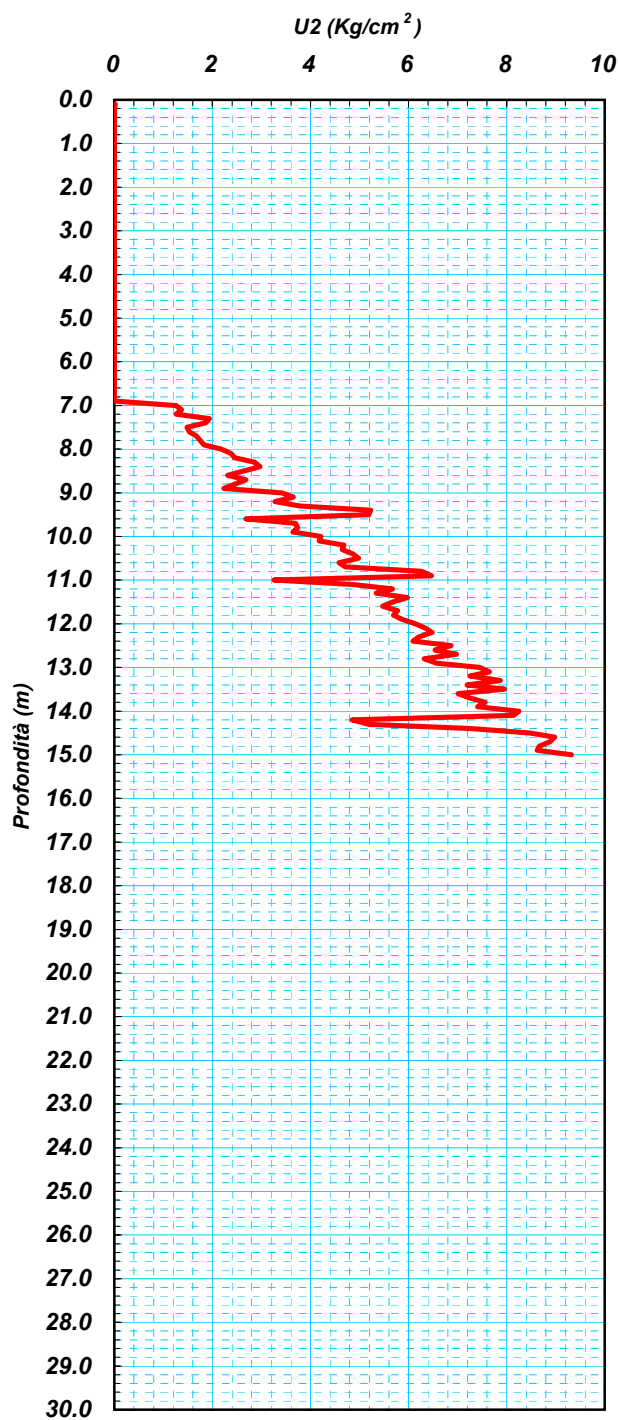
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 147+700

Prova (n): C.P.T.U - 36

Data esecuzione prova: 05/12/2007

Profondità prova (m) 15.00



Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 147+700

Data esecuzione prova: 05/12/07

Prova (n): C.P.T.U - 36

TABULATO DEI VALORI MISURATI

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
0.00	0.00	0.00	0.00	0.00	0.00
0.10	10	1	0.01	0.00	0.02
0.20	11	1	1.90	0.20	0.00
0.30	11	1	1.90	0.20	0.00
0.40	10	1	1.90	0.20	0.00
0.50	14	1	1.90	0.20	0.00
0.60	13	1	2.00	0.20	0.00
0.70	16	1	2.00	0.20	0.00
0.80	16	1	2.00	0.20	0.00
0.90	18	1	2.00	0.20	0.00
1.00	19	1	1.90	0.20	0.00
1.10	20	2	2.00	0.20	0.00
1.20	20	1	2.10	0.20	0.00
1.30	21	2	2.10	0.20	0.00
1.40	20	2	2.10	0.30	0.00
1.50	23	2	2.10	0.30	0.00
1.60	21	2	2.20	0.30	0.00
1.70	20	2	2.20	0.30	0.00
1.80	20	1	2.20	0.30	0.00
1.90	29	2	2.20	0.30	0.00
2.00	31	2	2.20	0.30	0.00
2.10	35	3	2.20	0.30	0.00
2.20	32	2	2.20	0.30	0.00
2.30	17	1	2.20	0.30	0.00
2.40	19	2	2.20	0.30	0.00
2.50	19	1	2.20	0.30	0.00
2.60	15	1	2.20	0.30	0.00
2.70	16	2	2.20	0.50	0.00
2.80	18	2	2.10	0.50	0.00
2.90	19	1	2.10	0.50	0.00
3.00	24	2	2.10	0.50	0.00
3.10	23	2	2.10	0.50	0.00
3.20	21	2	2.20	0.50	0.00
3.30	20	1	2.00	0.50	0.00
3.40	25	2	2.20	0.50	0.00
3.50	19	1	2.20	0.50	0.00
3.60	16	1	2.20	0.50	0.00
3.70	18	1	2.00	0.50	0.00
3.80	17	1	2.20	0.50	0.00
3.90	15	1	2.20	0.50	0.00
4.00	16	1	2.20	0.50	0.00
4.10	14	1	2.20	0.50	0.00
4.20	14	1	2.20	0.50	0.00
4.30	18	1	2.20	0.50	0.00
4.40	17	1	2.20	0.50	0.00
4.50	19	1	2.20	0.50	0.00
4.60	15	1	2.20	0.50	0.00
4.70	16	1	2.20	0.50	0.00
4.80	17	1	2.20	0.50	0.00
4.90	22	2	2.20	0.50	0.00
5.00	20	2	2.20	0.50	0.00
5.10	28	2	2.20	0.50	0.00
5.20	31	2	2.20	0.50	0.00
5.30	30	2	2.20	0.50	0.00
5.40	30	2	2.20	0.50	0.00
5.50	32	2	2.20	0.50	0.00
5.60	31	2	2.20	0.50	0.00
5.70	30	3	2.20	0.60	0.00
5.80	27	2	2.20	0.60	0.00
5.90	22	2	2.20	0.60	0.00

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
6.00	16	1	2.00	0.60	0.00
6.10	18	1	2.00	0.60	0.00
6.20	15	1	2.00	0.60	0.00
6.30	16	1	2.00	0.60	0.00
6.40	17	1	2.00	0.60	0.00
6.50	17	1	2.00	0.60	0.00
6.60	15	1	2.00	0.60	0.00
6.70	13	1	2.00	0.60	0.00
6.80	12	1	2.00	0.60	0.00
6.90	10	1	2.00	0.60	0.00
7.00	10	1	2.00	0.60	1.25
7.10	12	1	2.00	0.60	1.37
7.20	13	1	2.00	0.70	1.26
7.30	10	1	2.00	0.70	1.94
7.40	10	1	2.00	0.70	1.86
7.50	12	1	2.00	0.70	1.48
7.60	20	2	2.00	0.70	1.53
7.70	21	2	2.00	0.70	1.67
7.80	20	2	2.00	0.70	1.75
7.90	23	2	2.00	0.70	1.83
8.00	24	2	2.00	0.70	2.18
8.10	26	2	2.00	0.70	2.38
8.20	23	2	2.00	0.70	2.45
8.30	28	2	2.00	0.70	2.86
8.40	24	2	2.00	0.70	2.97
8.50	29	2	2.10	0.70	2.65
8.60	35	2	2.10	0.70	2.31
8.70	39	3	2.10	0.70	2.68
8.80	40	3	2.10	0.70	2.47
8.90	42	3	2.10	0.70	2.23
9.00	41	3	2.10	0.70	3.42
9.10	35	3	2.10	0.70	3.65
9.20	36	3	2.10	0.70	3.28
9.30	22	2	2.10	0.70	3.79
9.40	26	2	2.10	0.70	5.23
9.50	23	1	2.10	0.70	5.19
9.60	22	2	2.10	0.70	2.68
9.70	19	2	2.10	0.70	3.69
9.80	23	2	2.10	0.70	3.74
9.90	18	1	2.10	0.70	3.64
10.00	15	1	2.10	0.90	4.21
10.10	11	1	2.10	0.90	4.18
10.20	8	1	2.10	0.90	4.68
10.30	4	0	2.10	0.90	4.65
10.40	5	1	2.10	0.90	4.87
10.50	3	0	2.10	0.90	4.98
10.60	2	1	2.00	0.90	4.58
10.70	4	1	2.00	0.90	4.71
10.80	3	1	2.10	0.90	6.27
10.90	4	1	2.00	0.90	6.47
11.00	18	1	2.10	0.90	3.26
11.10	22	1	2.00	0.90	4.86
11.20	20	2	2.00	0.90	5.67
11.30	23	2	2.00	0.90	5.34
11.40	26	2	2.10	0.90	5.98
11.50	22	2	2.00	0.90	5.67
11.60	20	2	2.00	0.90	5.47
11.70	23	2	2.00	0.90	5.78
11.80	22	1	2.10	0.90	5.69
11.90	28	2	2.10	0.90	5.87

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
12.00	24	2	2.10	0.90	6.14
12.10	26	2	2.10	0.90	6.34
12.20	22	2	2.00	0.90	6.48
12.30	29	2	2.10	0.90	6.21
12.40	27	2	2.10	0.90	6.09
12.50	23	2	2.00	0.90	6.87
12.60	33	2	2.00	0.90	6.54
12.70	31	3	2.10	0.90	6.98
12.80	34	3	2.20	0.90	6.32
12.90	36	3	2.10	0.90	6.57
13.00	32	2	2.10	0.90	7.45
13.10	34	3	2.00	0.90	7.65
13.20	39	3	2.00	0.90	7.25
13.30	38	3	2.10	1.00	7.87
13.40	31	2	2.10	1.00	7.19
13.50	33	3	2.00	1.00	7.96
13.60	35	3	2.00	1.00	7.01
13.70	34	3	2.10	1.00	7.26
13.80	36	3	2.10	1.00	7.56
13.90	39	3	2.10	1.00	7.41
14.00	42	3	2.00	1.00	8.25
14.10	46	3	2.00	1.00	8.14
14.20	42	3	2.10	1.00	4.85
14.30	23	2	2.00	1.00	5.19
14.40	28	2	2.00	1.00	7.26
14.50	26	2	2.00	1.00	8.47
14.60	29	2	2.20	1.00	8.98
14.70	41	3	2.10	1.00	8.89
14.80	36	2	2.00	1.00	8.67
14.90	43	3	2.10	1.00	8.62
15.00	49	4	2.00	1.00	9.32

PROVA PENETROMETRICA STATICA (C.P.T.U.)

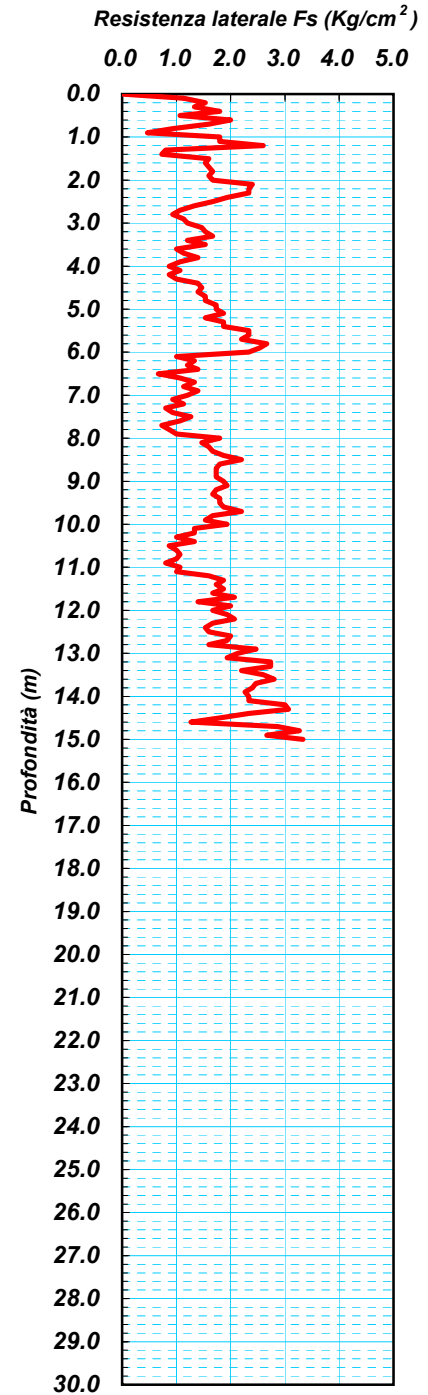
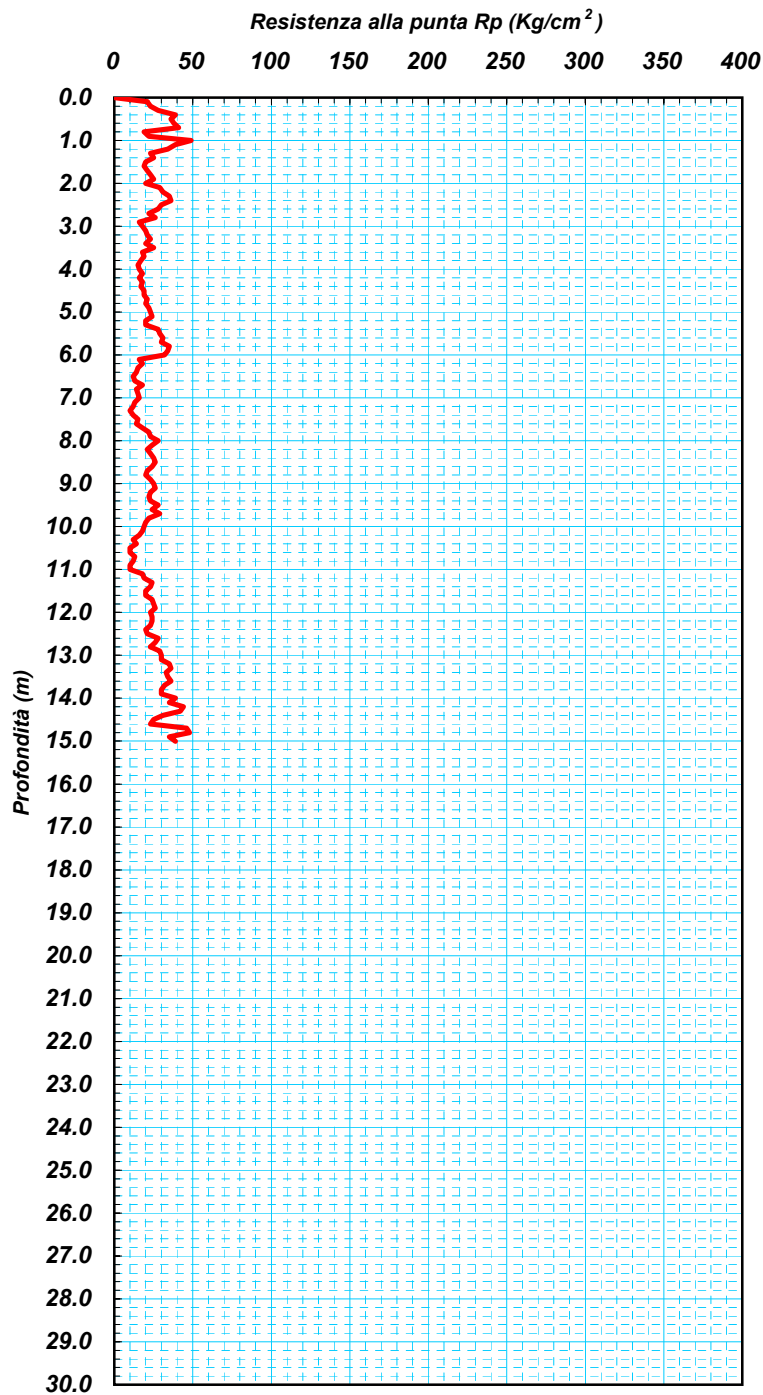
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 148+350

Prova (n): C.P.T.U - 37

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



PROVA PENETROMETRICA STATICA (C.P.T.U.)

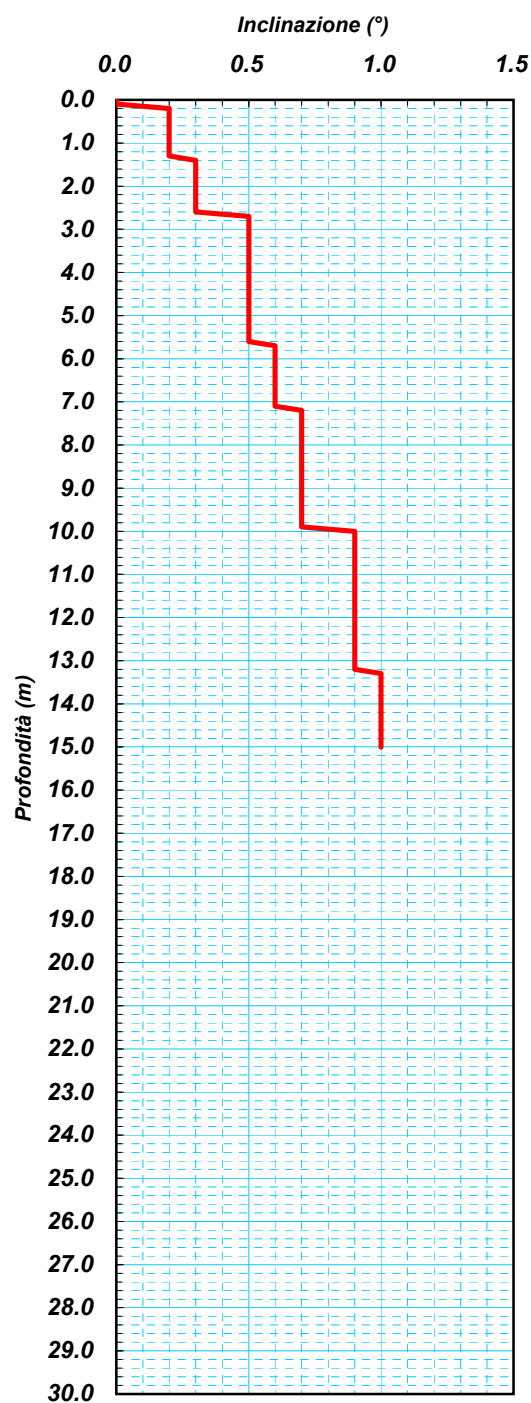
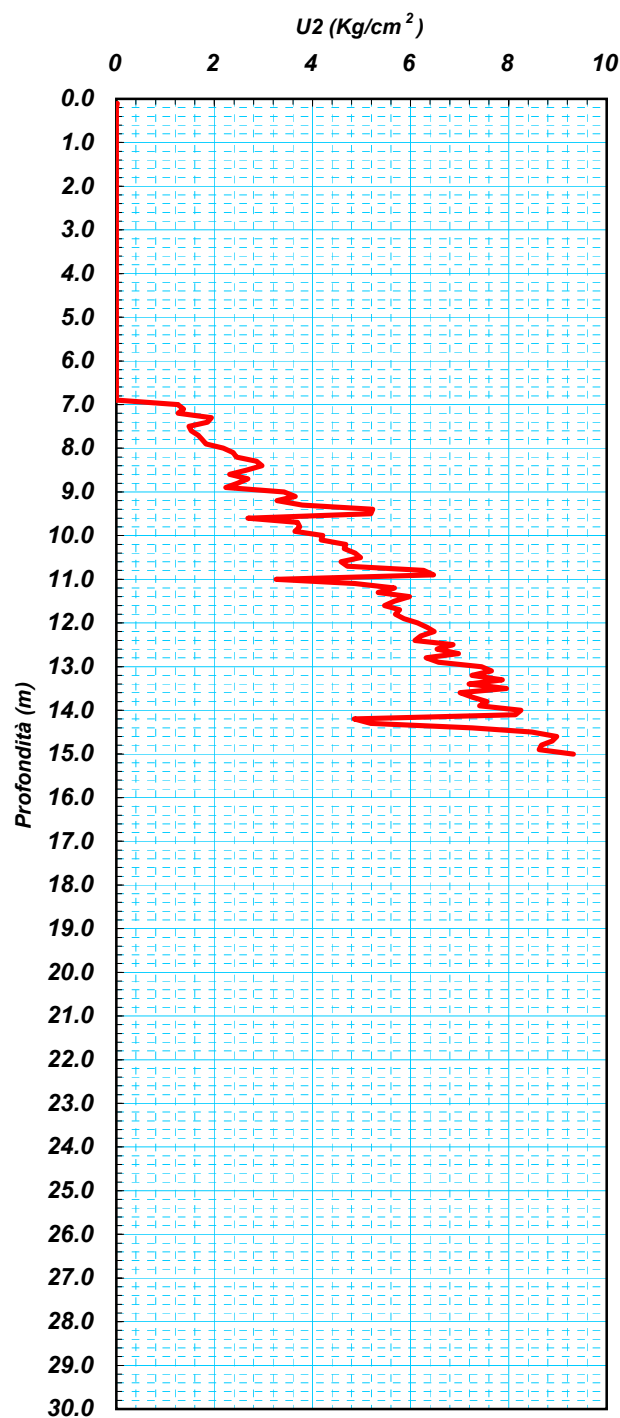
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 148+350

Prova (n): C.P.T.U - 37

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 148+350

Data esecuzione prova: 06/12/07

Prova (n): C.P.T.U - 37

TABULATO DEI VALORI MISURATI

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
0.00	0.00	0.00	0.00	0.00	0.00
0.10	21	1	0.01	0.00	0.02
0.20	23	2	1.90	0.20	0.00
0.30	28	1	1.90	0.20	0.00
0.40	39	2	1.90	0.20	0.00
0.50	36	1	1.90	0.20	0.00
0.60	38	2	2.00	0.20	0.00
0.70	41	2	2.00	0.20	0.00
0.80	19	1	2.00	0.20	0.00
0.90	22	0	2.00	0.20	0.00
1.00	49	2	1.90	0.20	0.00
1.10	39	2	2.00	0.20	0.00
1.20	34	3	2.10	0.20	0.00
1.30	23	1	2.10	0.20	0.00
1.40	25	1	2.10	0.30	0.00
1.50	20	2	2.10	0.30	0.00
1.60	19	2	2.20	0.30	0.00
1.70	21	2	2.20	0.30	0.00
1.80	23	2	2.20	0.30	0.00
1.90	25	2	2.20	0.30	0.00
2.00	20	2	2.20	0.30	0.00
2.10	29	2	2.20	0.30	0.00
2.20	31	2	2.20	0.30	0.00
2.30	35	2	2.20	0.30	0.00
2.40	36	2	2.20	0.30	0.00
2.50	30	2	2.20	0.30	0.00
2.60	28	1	2.20	0.30	0.00
2.70	22	1	2.20	0.50	0.00
2.80	26	1	2.10	0.50	0.00
2.90	16	1	2.10	0.50	0.00
3.00	18	1	2.10	0.50	0.00
3.10	20	1	2.10	0.50	0.00
3.20	21	2	2.20	0.50	0.00
3.30	23	2	2.00	0.50	0.00
3.40	20	1	2.20	0.50	0.00
3.50	25	2	2.20	0.50	0.00
3.60	18	1	2.20	0.50	0.00
3.70	19	1	2.00	0.50	0.00
3.80	17	1	2.20	0.50	0.00
3.90	15	1	2.20	0.50	0.00
4.00	16	1	2.20	0.50	0.00
4.10	18	1	2.20	0.50	0.00
4.20	16	1	2.20	0.50	0.00
4.30	18	1	2.20	0.50	0.00
4.40	17	1	2.20	0.50	0.00
4.50	19	1	2.20	0.50	0.00
4.60	19	1	2.20	0.50	0.00
4.70	21	2	2.20	0.50	0.00
4.80	20	2	2.20	0.50	0.00
4.90	22	2	2.20	0.50	0.00
5.00	23	2	2.20	0.50	0.00
5.10	24	2	2.20	0.50	0.00
5.20	20	2	2.20	0.50	0.00
5.30	20	2	2.20	0.50	0.00
5.40	28	2	2.20	0.50	0.00
5.50	29	2	2.20	0.50	0.00
5.60	31	2	2.20	0.50	0.00
5.70	30	2	2.20	0.60	0.00
5.80	35	3	2.20	0.60	0.00
5.90	34	3	2.20	0.60	0.00

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
6.00	32	2	2.00	0.60	0.00
6.10	16	1	2.00	0.60	0.00
6.20	18	1	2.00	0.60	0.00
6.30	15	1	2.00	0.60	0.00
6.40	14	1	2.00	0.60	0.00
6.50	12	1	2.00	0.60	0.00
6.60	13	1	2.00	0.60	0.00
6.70	18	1	2.00	0.60	0.00
6.80	14	1	2.00	0.60	0.00
6.90	15	1	2.00	0.60	0.00
7.00	16	1	2.00	0.60	1.25
7.10	13	1	2.00	0.60	1.37
7.20	12	1	2.00	0.70	1.26
7.30	10	1	2.00	0.70	1.94
7.40	12	1	2.00	0.70	1.86
7.50	15	1	2.00	0.70	1.48
7.60	14	1	2.00	0.70	1.53
7.70	18	1	2.00	0.70	1.67
7.80	22	1	2.00	0.70	1.75
7.90	23	1	2.00	0.70	1.83
8.00	28	2	2.00	0.70	2.18
8.10	24	1	2.00	0.70	2.38
8.20	21	2	2.00	0.70	2.45
8.30	23	2	2.00	0.70	2.86
8.40	25	2	2.00	0.70	2.97
8.50	26	2	2.10	0.70	2.65
8.60	24	2	2.10	0.70	2.31
8.70	21	2	2.10	0.70	2.68
8.80	20	2	2.10	0.70	2.47
8.90	23	2	2.10	0.70	2.23
9.00	25	2	2.10	0.70	3.42
9.10	26	2	2.10	0.70	3.65
9.20	23	2	2.10	0.70	3.28
9.30	22	2	2.10	0.70	3.79
9.40	23	2	2.10	0.70	5.23
9.50	28	2	2.10	0.70	5.19
9.60	24	2	2.10	0.70	2.68
9.70	29	2	2.10	0.70	3.69
9.80	22	2	2.10	0.70	3.74
9.90	20	2	2.10	0.70	3.64
10.00	19	2	2.10	0.90	4.21
10.10	18	1	2.10	0.90	4.18
10.20	16	1	2.10	0.90	4.68
10.30	12	1	2.10	0.90	4.65
10.40	14	1	2.10	0.90	4.87
10.50	10	1	2.10	0.90	4.98
10.60	10	1	2.00	0.90	4.58
10.70	13	1	2.00	0.90	4.71
10.80	12	1	2.10	0.90	6.27
10.90	10	1	2.00	0.90	6.47
11.00	10	1	2.10	0.90	3.26
11.10	18	1	2.00	0.90	4.86
11.20	19	2	2.00	0.90	5.67
11.30	24	2	2.00	0.90	5.34
11.40	23	2	2.10	0.90	5.98
11.50	20	2	2.00	0.90	5.67
11.60	20	2	2.00	0.90	5.47
11.70	24	2	2.00	0.90	5.78
11.80	25	1	2.10	0.90	5.69
11.90	26	2	2.10	0.90	5.87

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
12.00	23	2	2.10	0.90	6.14
12.10	24	2	2.10	0.90	6.34
12.20	24	2	2.00	0.90	6.48
12.30	23	2	2.10	0.90	6.21
12.40	20	2	2.10	0.90	6.09
12.50	21	2	2.00	0.90	6.87
12.60	28	2	2.00	0.90	6.54
12.70	26	2	2.10	0.90	6.98
12.80	23	2	2.20	0.90	6.32
12.90	29	2	2.10	0.90	6.57
13.00	30	2	2.10	0.90	7.45
13.10	30	2	2.00	0.90	7.65
13.20	35	3	2.00	0.90	7.25
13.30	36	3	2.10	1.00	7.87
13.40	33	2	2.10	1.00	7.19
13.50	34	3	2.00	1.00	7.96
13.60	36	3	2.00	1.00	7.01
13.70	32	2	2.10	1.00	7.26
13.80	30	2	2.10	1.00	7.56
13.90	30	2	2.10	1.00	7.41
14.00	39	2	2.00	1.00	8.25
14.10	35	2	2.00	1.00	8.14
14.20	44	3	2.10	1.00	4.85
14.30	42	3	2.00	1.00	5.19
14.40	31	2	2.00	1.00	7.26
14.50	25	2	2.00	1.00	8.47
14.60	23	1	2.20	1.00	8.98
14.70	46	3	2.10	1.00	8.89
14.80	48	3	2.00	1.00	8.67
14.90	35	3	2.10	1.00	8.62
15.00	39	3	2.00	1.00	9.32

PROVA PENETROMETRICA STATICA (C.P.T.U.)

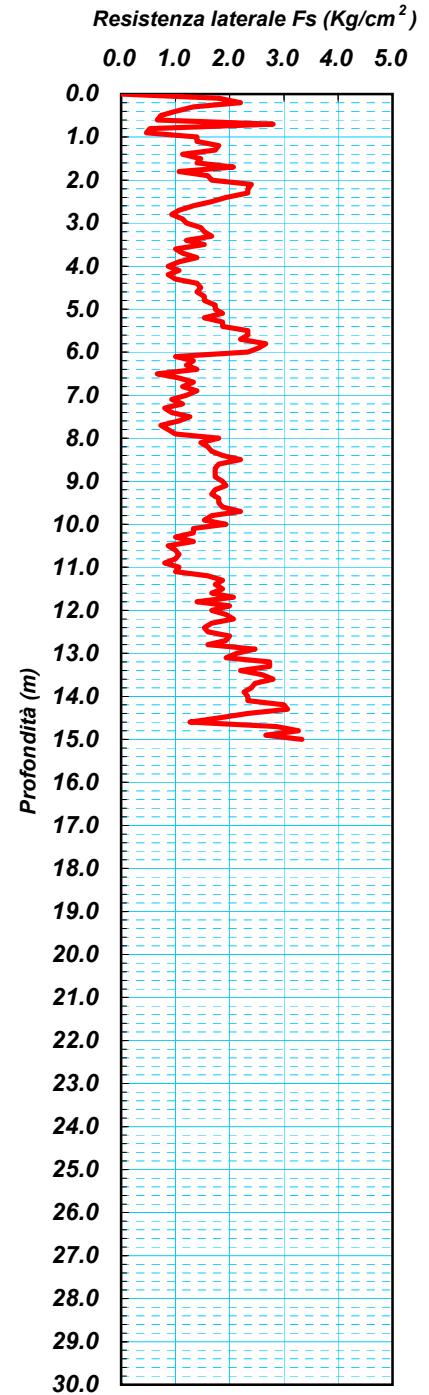
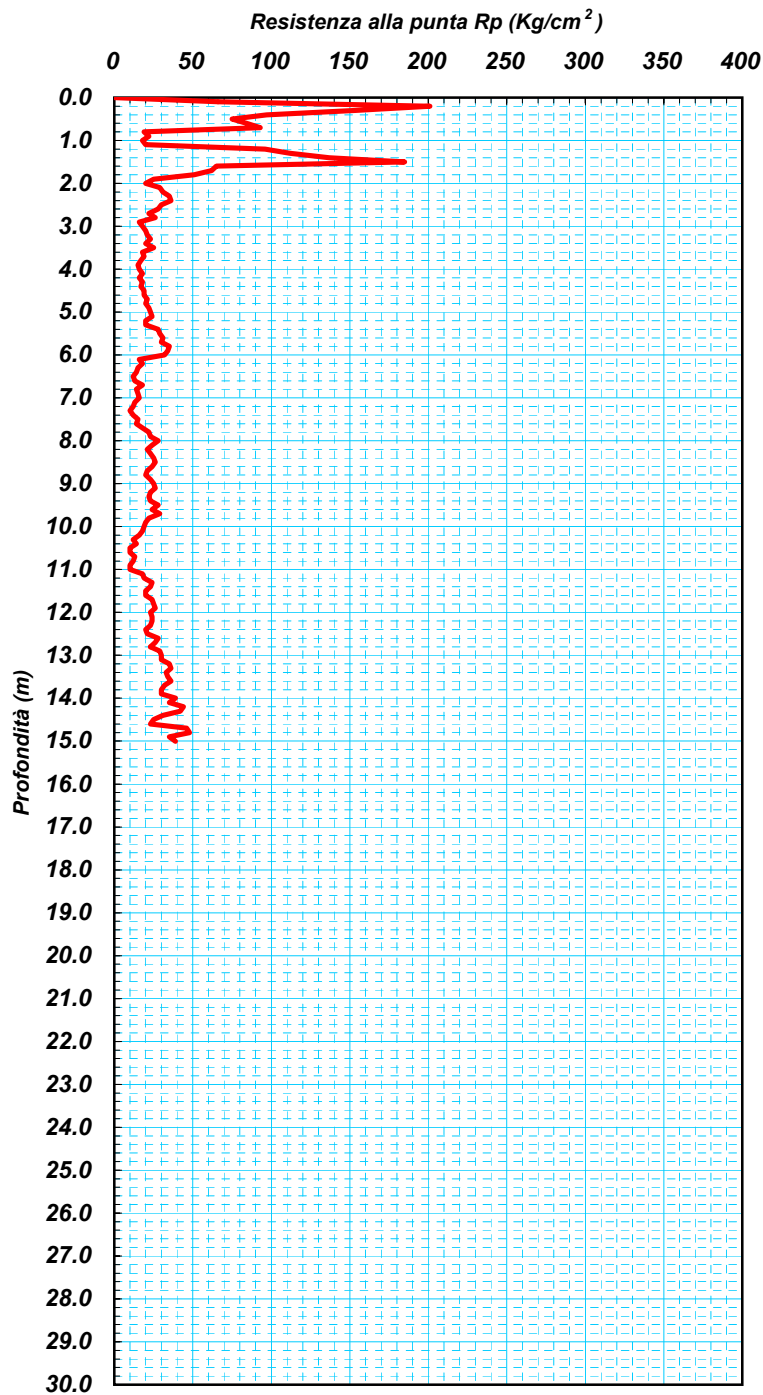
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 148+650

Prova (n): C.P.T.U - 38

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



PROVA PENETROMETRICA STATICA (C.P.T.U.)

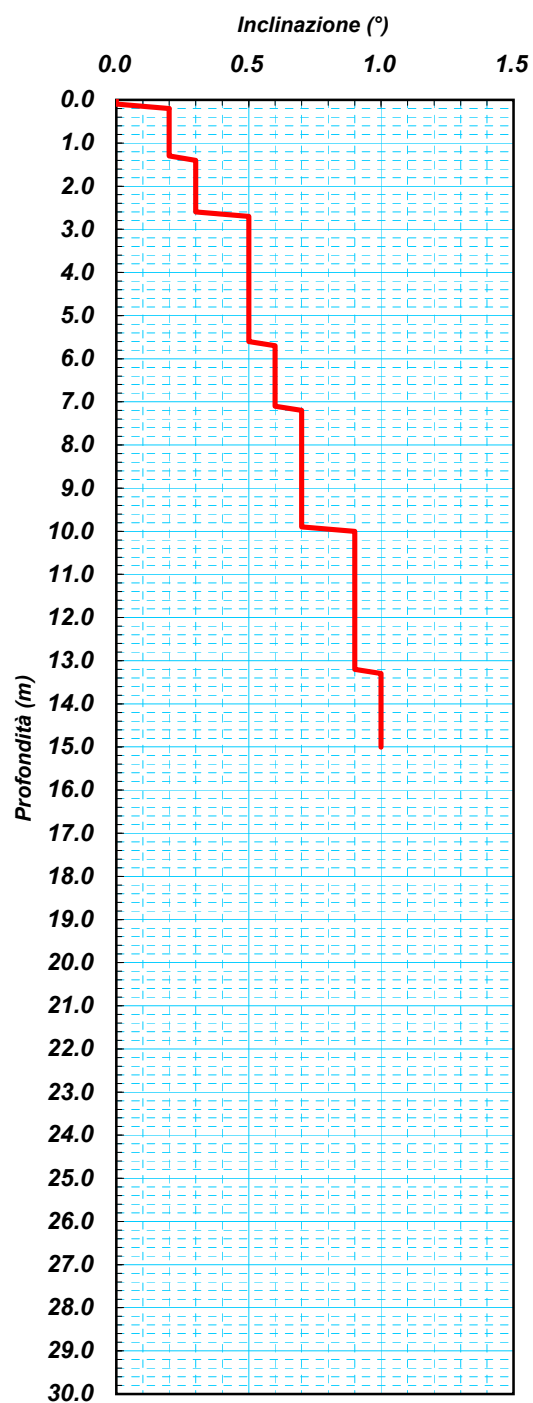
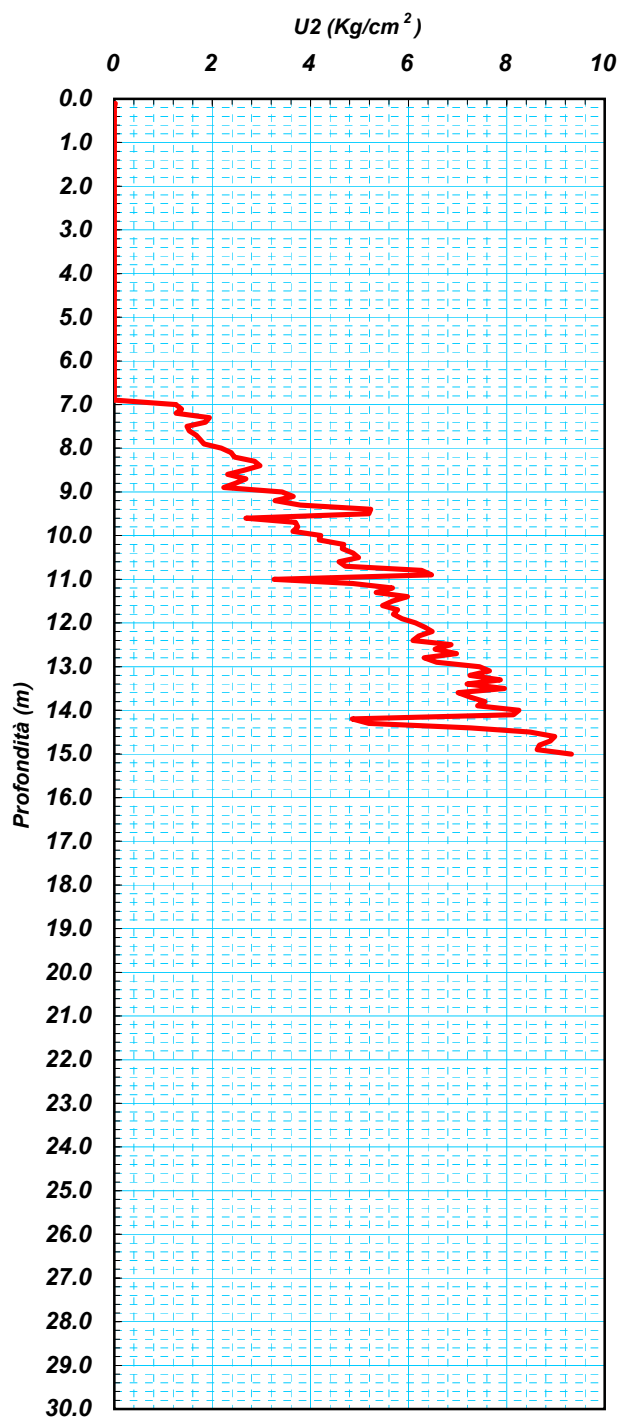
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 148+650

Prova (n): **C.P.T.U - 38**

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 148+650

Data esecuzione prova: 06/12/07

Prova (n): C.P.T.U - 38

TABULATO DEI VALORI MISURATI

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
0.00	0.00	0.00	0.00	0.00	0.00
0.10	66	2	0.02	0.00	0.02
0.20	201	2	1.80	0.20	0.00
0.30	154	1	1.80	0.20	0.00
0.40	97	1	1.80	0.20	0.00
0.50	75	1	1.80	0.20	0.00
0.60	84	1	1.80	0.20	0.00
0.70	93	3	1.80	0.20	0.00
0.80	19	1	1.80	0.20	0.00
0.90	22	0	1.80	0.20	0.00
1.00	18	1	1.80	0.20	0.00
1.10	20	1	1.80	0.20	0.00
1.20	96	2	1.80	0.20	0.00
1.30	112	2	1.80	0.20	0.00
1.40	137	1	1.80	0.30	0.00
1.50	185	1	1.80	0.30	0.00
1.60	65	1	1.80	0.30	0.00
1.70	62	2	1.80	0.30	0.00
1.80	51	1	1.80	0.30	0.00
1.90	25	2	1.90	0.30	0.00
2.00	20	2	1.90	0.30	0.00
2.10	29	2	2.00	0.30	0.00
2.20	31	2	1.90	0.30	0.00
2.30	35	2	2.00	0.30	0.00
2.40	36	2	2.00	0.30	0.00
2.50	30	2	2.00	0.30	0.00
2.60	28	1	2.00	0.30	0.00
2.70	22	1	1.90	0.50	0.00
2.80	26	1	1.80	0.50	0.00
2.90	16	1	1.90	0.50	0.00
3.00	18	1	2.00	0.50	0.00
3.10	20	1	2.00	0.50	0.00
3.20	21	2	2.00	0.50	0.00
3.30	23	2	2.00	0.50	0.00
3.40	20	1	2.00	0.50	0.00
3.50	25	2	2.00	0.50	0.00
3.60	18	1	2.10	0.50	0.00
3.70	19	1	2.20	0.50	0.00
3.80	17	1	2.10	0.50	0.00
3.90	15	1	2.00	0.50	0.00
4.00	16	1	2.00	0.50	0.00
4.10	18	1	2.00	0.50	0.00
4.20	16	1	2.20	0.50	0.00
4.30	18	1	2.00	0.50	0.00
4.40	17	1	2.00	0.50	0.00
4.50	19	1	2.00	0.50	0.00
4.60	19	1	2.10	0.50	0.00
4.70	21	2	2.10	0.50	0.00
4.80	20	2	2.10	0.50	0.00
4.90	22	2	2.10	0.50	0.00
5.00	23	2	2.10	0.50	0.00
5.10	24	2	2.10	0.50	0.00
5.20	20	2	2.10	0.50	0.00
5.30	20	2	2.10	0.50	0.00
5.40	28	2	2.10	0.50	0.00
5.50	29	2	2.10	0.50	0.00
5.60	31	2	2.10	0.50	0.00
5.70	30	2	2.10	0.60	0.00
5.80	35	3	2.10	0.60	0.00
5.90	34	3	2.10	0.60	0.00

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
6.00	32	2	2.10	0.60	0.00
6.10	16	1	2.10	0.60	0.00
6.20	18	1	2.10	0.60	0.00
6.30	15	1	2.10	0.60	0.00
6.40	14	1	2.10	0.60	0.00
6.50	12	1	2.10	0.60	0.00
6.60	13	1	2.10	0.60	0.00
6.70	18	1	2.10	0.60	0.00
6.80	14	1	2.10	0.60	0.00
6.90	15	1	2.10	0.60	0.00
7.00	16	1	2.10	0.60	1.25
7.10	13	1	2.10	0.60	1.37
7.20	12	1	2.10	0.70	1.26
7.30	10	1	2.10	0.70	1.94
7.40	12	1	2.10	0.70	1.86
7.50	15	1	2.10	0.70	1.48
7.60	14	1	2.10	0.70	1.53
7.70	18	1	2.10	0.70	1.67
7.80	22	1	2.10	0.70	1.75
7.90	23	1	2.10	0.70	1.83
8.00	28	2	2.10	0.70	2.18
8.10	24	1	2.10	0.70	2.38
8.20	21	2	2.10	0.70	2.45
8.30	23	2	2.10	0.70	2.86
8.40	25	2	2.10	0.70	2.97
8.50	26	2	2.10	0.70	2.65
8.60	24	2	2.20	0.70	2.31
8.70	21	2	2.20	0.70	2.68
8.80	20	2	2.00	0.70	2.47
8.90	23	2	2.00	0.70	2.23
9.00	25	2	2.00	0.70	3.42
9.10	26	2	2.00	0.70	3.65
9.20	23	2	2.00	0.70	3.28
9.30	22	2	2.00	0.70	3.79
9.40	23	2	2.00	0.70	5.23
9.50	28	2	2.00	0.70	5.19
9.60	24	2	2.00	0.70	2.68
9.70	29	2	2.00	0.70	3.69
9.80	22	2	2.00	0.70	3.74
9.90	20	2	2.00	0.70	3.64
10.00	19	2	2.00	0.90	4.21
10.10	18	1	2.00	0.90	4.18
10.20	16	1	2.00	0.90	4.68
10.30	12	1	2.00	0.90	4.65
10.40	14	1	2.00	0.90	4.87
10.50	10	1	2.00	0.90	4.98
10.60	10	1	2.00	0.90	4.58
10.70	13	1	2.00	0.90	4.71
10.80	12	1	2.00	0.90	6.27
10.90	10	1	2.00	0.90	6.47
11.00	10	1	2.00	0.90	3.26
11.10	18	1	2.00	0.90	4.86
11.20	19	2	2.00	0.90	5.67
11.30	24	2	2.00	0.90	5.34
11.40	23	2	2.00	0.90	5.98
11.50	20	2	2.00	0.90	5.67
11.60	20	2	2.00	0.90	5.47
11.70	24	2	2.00	0.90	5.78
11.80	25	1	2.00	0.90	5.69
11.90	26	2	2.00	0.90	5.87

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
12.00	23	2	2.00	0.90	6.14
12.10	24	2	2.10	0.90	6.34
12.20	24	2	2.20	0.90	6.48
12.30	23	2	2.20	0.90	6.21
12.40	20	2	2.20	0.90	6.09
12.50	21	2	2.00	0.90	6.87
12.60	28	2	2.00	0.90	6.54
12.70	26	2	2.10	0.90	6.98
12.80	23	2	2.20	0.90	6.32
12.90	29	2	2.10	0.90	6.57
13.00	30	2	2.10	0.90	7.45
13.10	30	2	2.00	0.90	7.65
13.20	35	3	2.00	0.90	7.25
13.30	36	3	2.00	1.00	7.87
13.40	33	2	2.10	1.00	7.19
13.50	34	3	2.00	1.00	7.96
13.60	36	3	2.00	1.00	7.01
13.70	32	2	2.00	1.00	7.26
13.80	30	2	2.00	1.00	7.56
13.90	30	2	2.00	1.00	7.41
14.00	39	2	2.10	1.00	8.25
14.10	35	2	2.20	1.00	8.14
14.20	44	3	2.20	1.00	4.85
14.30	42	3	2.20	1.00	5.19
14.40	31	2	2.20	1.00	7.26
14.50	25	2	2.20	1.00	8.47
14.60	23	1	2.20	1.00	8.98
14.70	46	3	2.20	1.00	8.89
14.80	48	3	2.20	1.00	8.67
14.90	35	3	2.20	1.00	8.62
15.00	39	3	2.20	1.00	9.32

PROVA PENETROMETRICA STATICA (C.P.T.U.)

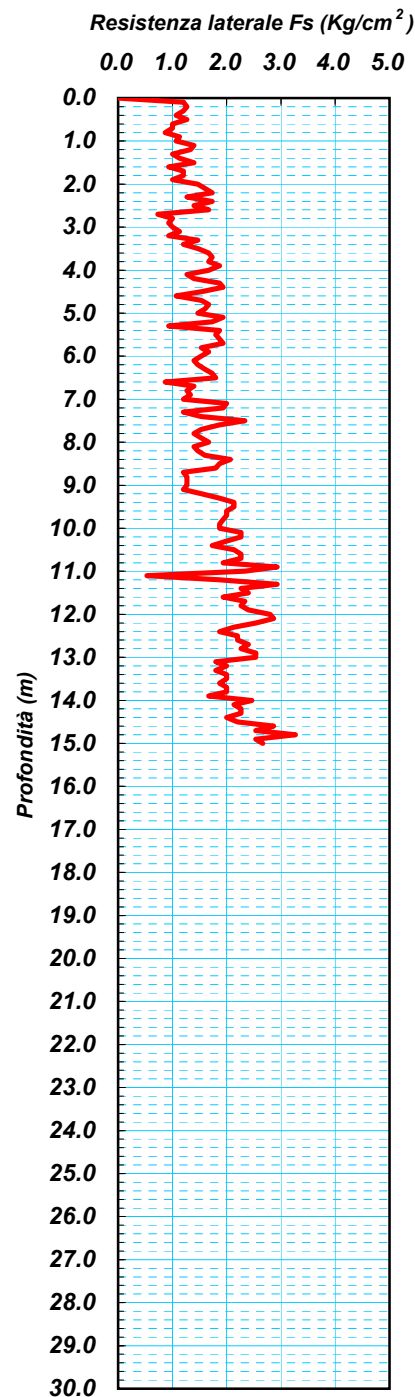
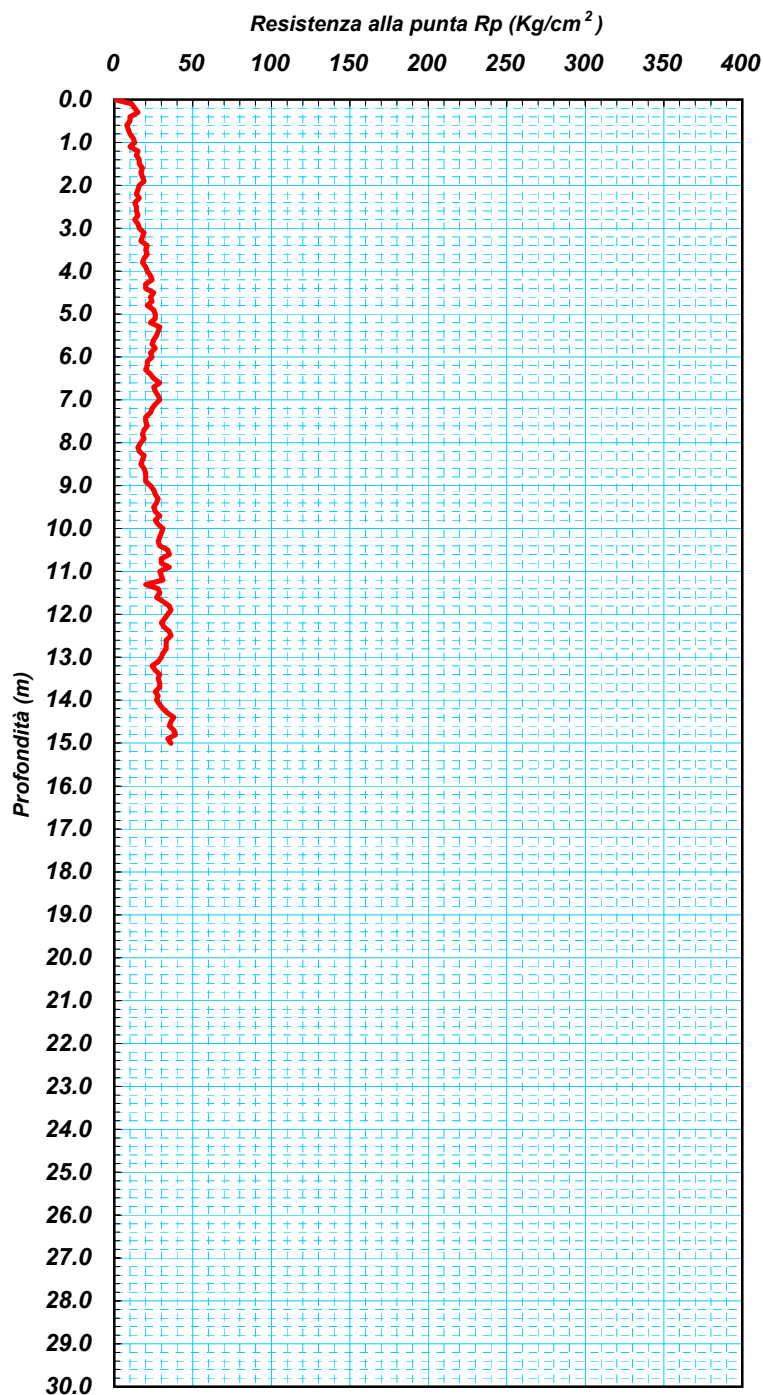
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 150+050

Prova (n): C.P.T.U - 39

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



PROVA PENETROMETRICA STATICA (C.P.T.U.)

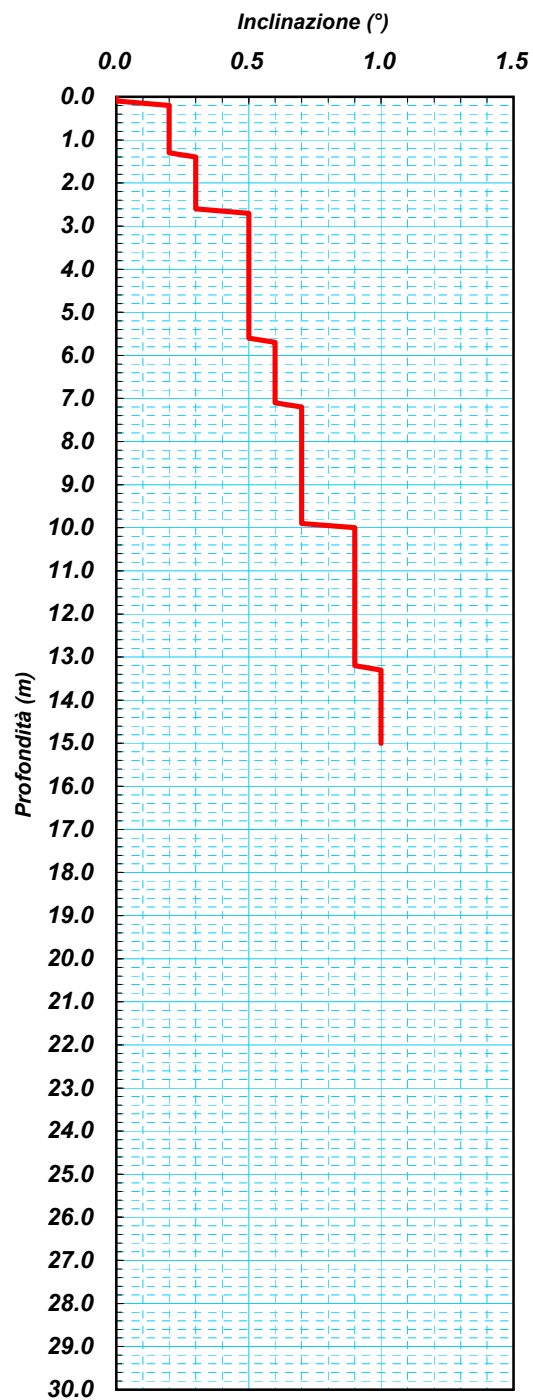
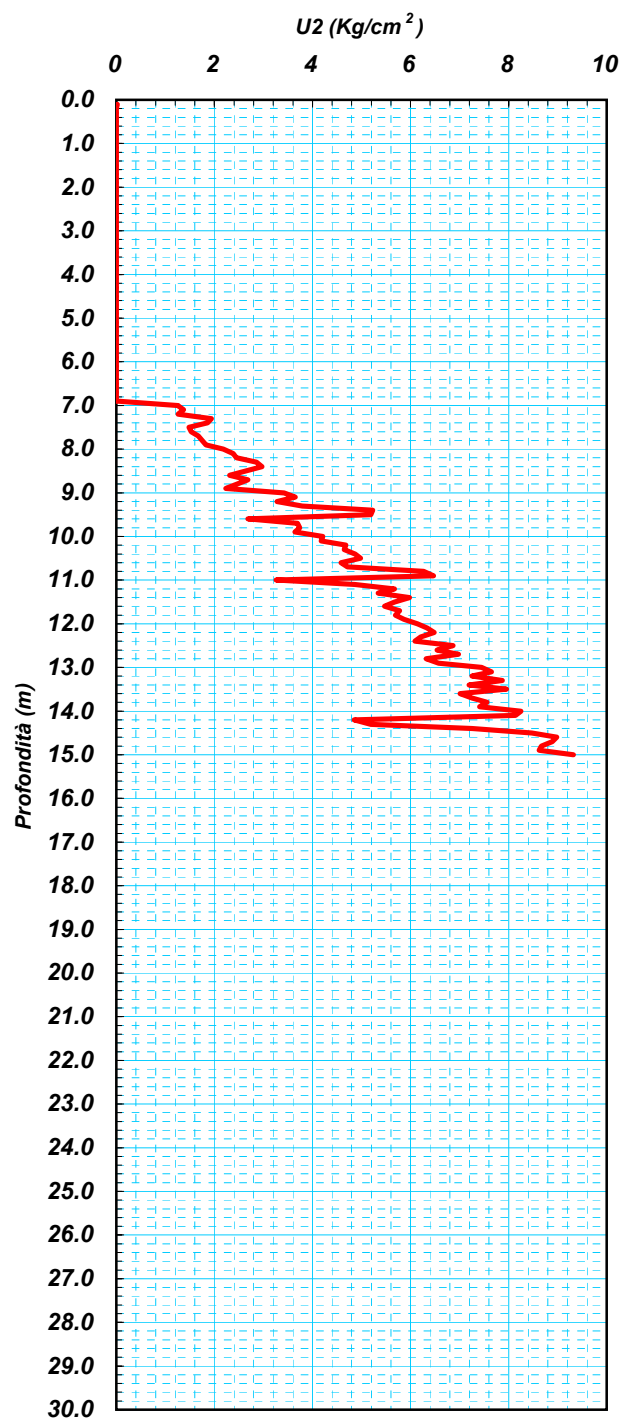
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 150+050

Prova (n): C.P.T.U - 39

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 150+050

Data esecuzione prova: 06/12/07

Prova (n): C.P.T.U - 39

TABULATO DEI VALORI MISURATI

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
0.00	0.00	0.00	0.00	0.00	0.00
0.10	11	1	0.01	0.00	0.02
0.20	13	1	2.20	0.20	0.00
0.30	15	1	2.20	0.20	0.00
0.40	10	1	2.20	0.20	0.00
0.50	10	1	2.20	0.20	0.00
0.60	8	1	2.20	0.20	0.00
0.70	9	1	2.20	0.20	0.00
0.80	10	1	2.20	0.20	0.00
0.90	12	1	2.20	0.20	0.00
1.00	13	1	2.20	0.20	0.00
1.10	10	1	2.20	0.20	0.00
1.20	15	1	2.20	0.20	0.00
1.30	14	1	2.20	0.20	0.00
1.40	16	1	2.20	0.30	0.00
1.50	16	1	2.20	0.30	0.00
1.60	18	1	2.20	0.30	0.00
1.70	17	1	2.20	0.30	0.00
1.80	18	1	2.20	0.30	0.00
1.90	19	1	2.20	0.30	0.00
2.00	16	1	2.20	0.30	0.00
2.10	15	2	2.20	0.30	0.00
2.20	14	2	2.20	0.30	0.00
2.30	16	1	2.20	0.30	0.00
2.40	13	2	2.20	0.30	0.00
2.50	14	1	2.20	0.30	0.00
2.60	14	2	2.20	0.30	0.00
2.70	15	1	2.20	0.50	0.00
2.80	13	1	2.20	0.50	0.00
2.90	15	1	2.20	0.50	0.00
3.00	16	1	2.20	0.50	0.00
3.10	19	1	2.20	0.50	0.00
3.20	18	1	2.20	0.50	0.00
3.30	17	1	2.20	0.50	0.00
3.40	21	1	2.20	0.50	0.00
3.50	20	1	2.20	0.50	0.00
3.60	21	2	2.20	0.50	0.00
3.70	19	2	2.20	0.50	0.00
3.80	18	2	2.20	0.50	0.00
3.90	20	2	2.20	0.50	0.00
4.00	21	2	2.20	0.50	0.00
4.10	23	1	2.20	0.50	0.00
4.20	24	1	2.20	0.50	0.00
4.30	20	2	2.20	0.50	0.00
4.40	20	2	2.20	0.50	0.00
4.50	25	2	2.20	0.50	0.00
4.60	23	1	2.20	0.50	0.00
4.70	24	2	2.20	0.50	0.00
4.80	21	2	2.20	0.50	0.00
4.90	25	2	2.00	0.50	0.00
5.00	26	1	2.00	0.50	0.00
5.10	26	2	2.00	0.50	0.00
5.20	23	2	2.00	0.50	0.00
5.30	29	1	2.00	0.50	0.00
5.40	28	2	2.10	0.50	0.00
5.50	27	2	2.10	0.50	0.00
5.60	25	2	2.10	0.50	0.00
5.70	24	2	2.00	0.60	0.00
5.80	26	2	2.00	0.60	0.00
5.90	23	2	2.00	0.60	0.00

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
6.00	24	2	2.10	0.60	0.00
6.10	21	1	2.10	0.60	0.00
6.20	21	1	2.10	0.60	0.00
6.30	20	2	2.10	0.60	0.00
6.40	23	2	2.10	0.60	0.00
6.50	25	2	2.20	0.60	0.00
6.60	29	1	2.20	0.60	0.00
6.70	25	1	2.10	0.60	0.00
6.80	26	1	2.20	0.60	0.00
6.90	28	1	2.00	0.60	0.00
7.00	29	1	2.00	0.60	1.25
7.10	26	2	2.00	0.60	1.37
7.20	24	2	2.00	0.70	1.26
7.30	23	1	2.00	0.70	1.94
7.40	20	2	2.00	0.70	1.86
7.50	20	2	2.00	0.70	1.48
7.60	21	2	2.00	0.70	1.53
7.70	19	2	2.00	0.70	1.67
7.80	18	1	2.00	0.70	1.75
7.90	19	2	2.00	0.70	1.83
8.00	17	2	2.00	0.70	2.18
8.10	15	1	2.00	0.70	2.38
8.20	16	1	2.00	0.70	2.45
8.30	19	2	2.00	0.70	2.86
8.40	18	2	2.00	0.70	2.97
8.50	17	2	2.00	0.70	2.65
8.60	19	2	2.00	0.70	2.31
8.70	20	1	2.00	0.70	2.68
8.80	20	1	2.00	0.70	2.47
8.90	20	1	2.00	0.70	2.23
9.00	23	1	2.00	0.70	3.42
9.10	25	1	2.00	0.70	3.65
9.20	26	2	2.00	0.70	3.28
9.30	28	2	2.00	0.70	3.79
9.40	27	2	2.00	0.70	5.23
9.50	25	2	2.00	0.70	5.19
9.60	26	2	2.00	0.70	2.68
9.70	29	2	2.00	0.70	3.69
9.80	26	2	2.00	0.70	3.74
9.90	28	2	2.00	0.70	3.64
10.00	31	2	2.00	0.90	4.21
10.10	30	2	2.00	0.90	4.18
10.20	29	2	2.00	0.90	4.68
10.30	28	2	2.00	0.90	4.65
10.40	29	2	2.00	0.90	4.87
10.50	34	2	2.00	0.90	4.98
10.60	35	2	2.00	0.90	4.58
10.70	30	2	2.00	0.90	4.71
10.80	30	2	2.00	0.90	6.27
10.90	35	3	2.00	0.90	6.47
11.00	29	2	2.00	0.90	3.26
11.10	30	1	2.00	0.90	4.86
11.20	31	2	2.00	0.90	5.67
11.30	20	3	2.00	0.90	5.34
11.40	28	2	2.00	0.90	5.98
11.50	29	2	2.00	0.90	5.67
11.60	27	2	2.00	0.90	5.47
11.70	31	2	2.00	0.90	5.78
11.80	35	2	2.00	0.90	5.69
11.90	36	2	2.00	0.90	5.87

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
12.00	34	3	2.00	0.90	6.14
12.10	32	3	2.00	0.90	6.34
12.20	30	3	2.00	0.90	6.48
12.30	32	2	2.00	0.90	6.21
12.40	35	2	2.00	0.90	6.09
12.50	36	2	2.00	0.90	6.87
12.60	33	2	2.00	0.90	6.54
12.70	33	2	2.00	0.90	6.98
12.80	33	2	2.00	0.90	6.32
12.90	31	3	2.00	0.90	6.57
13.00	30	3	2.00	0.90	7.45
13.10	28	2	2.00	0.90	7.65
13.20	24	2	2.00	0.90	7.25
13.30	26	2	2.00	1.00	7.87
13.40	29	2	2.00	1.00	7.19
13.50	28	2	2.00	1.00	7.96
13.60	29	2	2.00	1.00	7.01
13.70	29	2	2.00	1.00	7.26
13.80	26	2	2.00	1.00	7.56
13.90	28	2	2.00	1.00	7.41
14.00	27	2	2.00	1.00	8.25
14.10	29	2	2.00	1.00	8.14
14.20	31	2	2.00	1.00	4.85
14.30	34	2	2.00	1.00	5.19
14.40	38	2	2.00	1.00	7.26
14.50	36	2	2.00	1.00	8.47
14.60	35	3	2.00	1.00	8.98
14.70	38	3	2.00	1.00	8.89
14.80	39	3	2.00	1.00	8.67
14.90	34	3	2.00	1.00	8.62
15.00	36	3	2.00	1.00	9.32

PROVA PENETROMETRICA STATICA (C.P.T.U.)

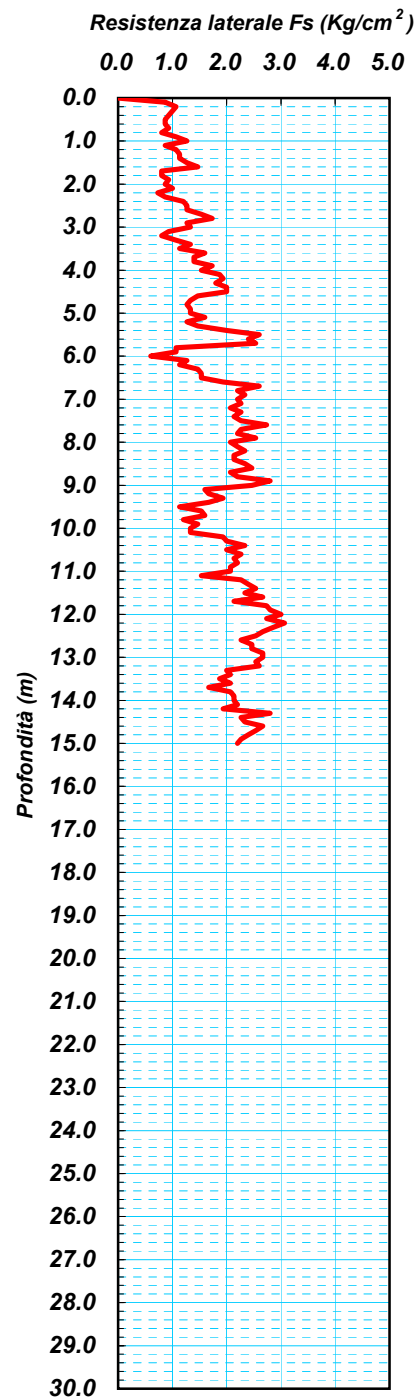
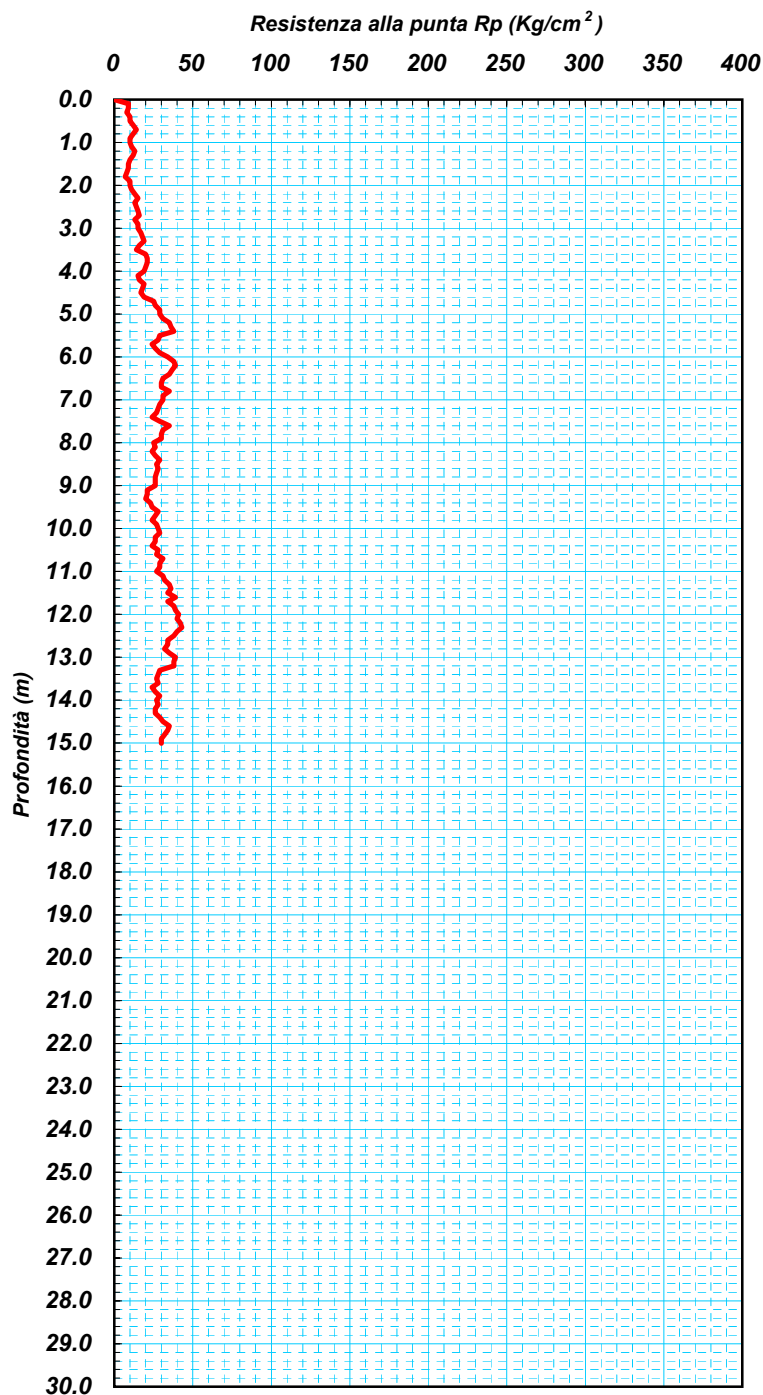
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 150+550

Prova (n): C.P.T.U - 40

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



PROVA PENETROMETRICA STATICA (C.P.T.U.)

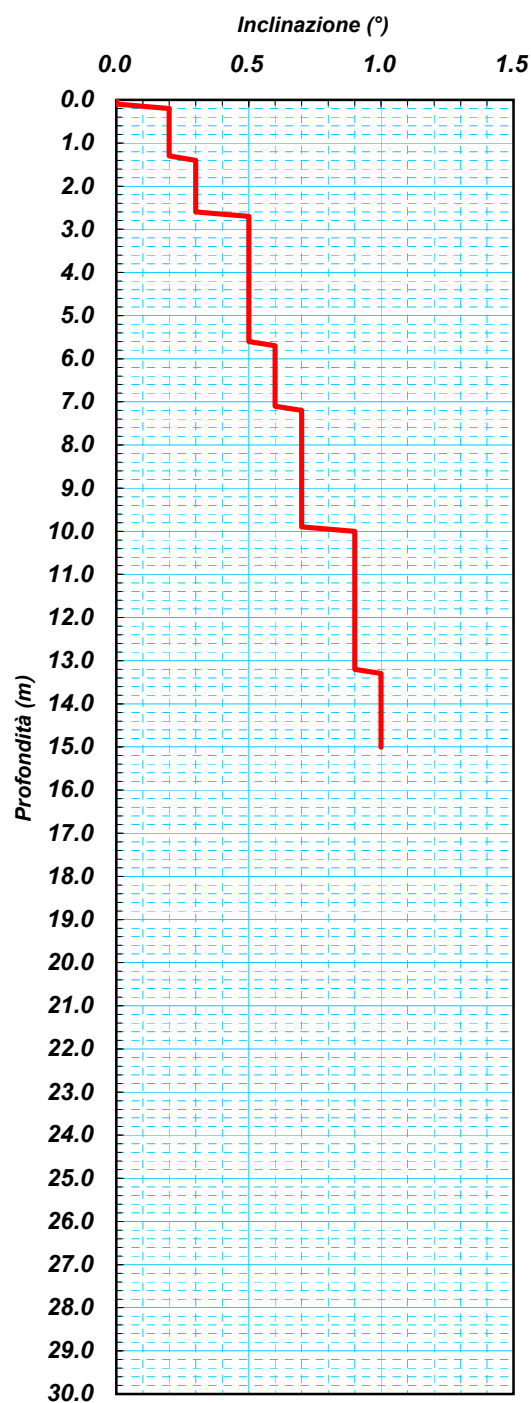
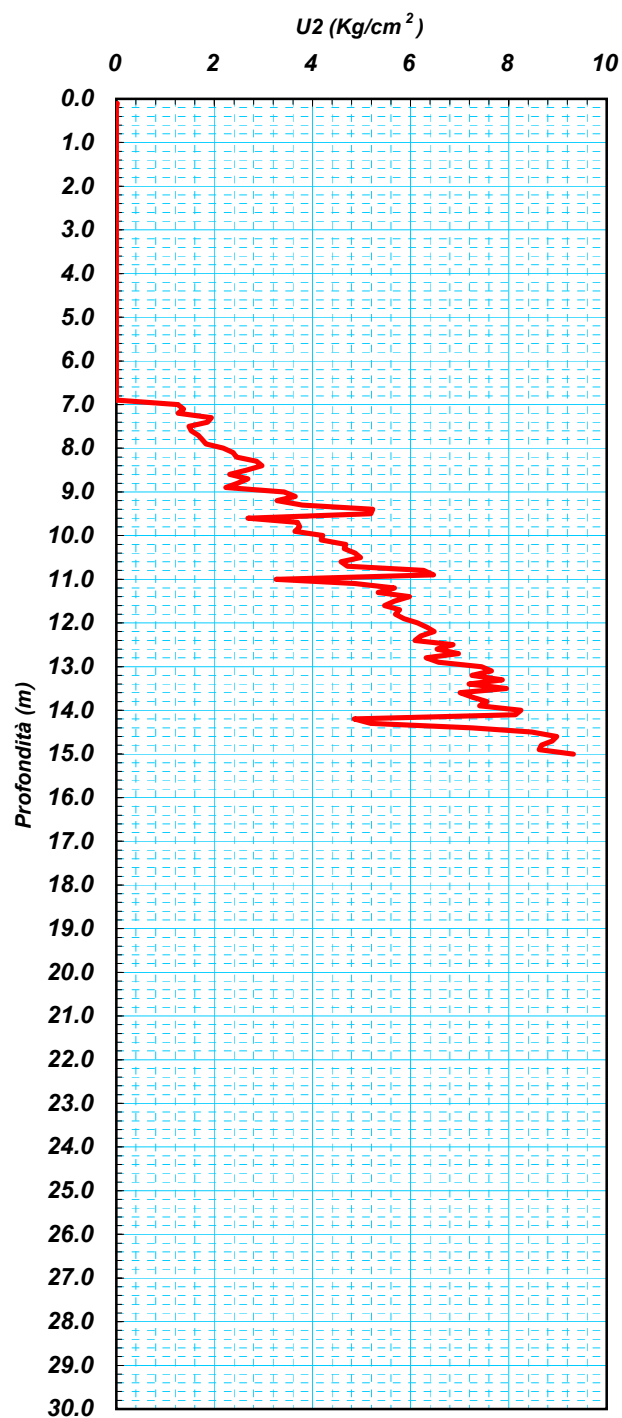
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 150+550

Prova (n): **C.P.T.U - 40**

Data esecuzione prova: 06/12/2007

Profondità prova (m) 15.00



Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 150+550

Data esecuzione prova: 06/12/07

Prova (n): C.P.T.U - 40

TABULATO DEI VALORI MISURATI

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
0.00	0.00	0.00	0.00	0.00	0.00
0.10	9	1	0.01	0.00	0.02
0.20	9	1	2.20	0.20	0.00
0.30	8	1	2.10	0.20	0.00
0.40	10	1	2.20	0.20	0.00
0.50	10	1	2.10	0.20	0.00
0.60	12	1	2.10	0.20	0.00
0.70	14	1	2.20	0.20	0.00
0.80	12	1	2.20	0.20	0.00
0.90	10	1	2.20	0.20	0.00
1.00	10	1	2.20	0.20	0.00
1.10	11	1	2.20	0.20	0.00
1.20	13	1	2.20	0.20	0.00
1.30	12	1	2.20	0.20	0.00
1.40	10	1	2.20	0.30	0.00
1.50	9	1	2.20	0.30	0.00
1.60	9	1	2.20	0.30	0.00
1.70	8	1	2.20	0.30	0.00
1.80	7	1	2.20	0.30	0.00
1.90	10	1	2.20	0.30	0.00
2.00	10	1	2.20	0.30	0.00
2.10	11	1	2.20	0.30	0.00
2.20	13	1	2.20	0.30	0.00
2.30	15	1	2.20	0.30	0.00
2.40	13	1	2.20	0.30	0.00
2.50	14	1	2.20	0.30	0.00
2.60	15	1	2.20	0.30	0.00
2.70	16	2	2.20	0.50	0.00
2.80	13	2	2.20	0.50	0.00
2.90	15	1	2.20	0.50	0.00
3.00	15	1	2.20	0.50	0.00
3.10	17	1	2.20	0.50	0.00
3.20	18	1	2.20	0.50	0.00
3.30	19	1	2.20	0.50	0.00
3.40	16	1	2.20	0.50	0.00
3.50	14	1	2.20	0.50	0.00
3.60	20	2	2.20	0.50	0.00
3.70	21	1	2.20	0.50	0.00
3.80	21	1	2.20	0.50	0.00
3.90	20	2	2.20	0.50	0.00
4.00	19	2	2.20	0.50	0.00
4.10	15	2	2.20	0.50	0.00
4.20	16	2	2.20	0.50	0.00
4.30	19	2	2.20	0.50	0.00
4.40	18	2	2.20	0.50	0.00
4.50	17	2	2.20	0.50	0.00
4.60	19	1	2.20	0.50	0.00
4.70	25	1	2.20	0.50	0.00
4.80	26	1	2.20	0.50	0.00
4.90	29	1	2.00	0.50	0.00
5.00	29	1	2.00	0.50	0.00
5.10	31	2	2.00	0.50	0.00
5.20	35	1	2.00	0.50	0.00
5.30	36	1	2.00	0.50	0.00
5.40	38	2	2.00	0.50	0.00
5.50	29	3	2.00	0.50	0.00
5.60	28	2	2.00	0.50	0.00
5.70	24	3	2.00	0.60	0.00
5.80	26	1	2.00	0.60	0.00
5.90	29	1	2.00	0.60	0.00

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
6.00	34	1	1.90	0.60	0.00
6.10	38	1	1.90	0.60	0.00
6.20	39	1	1.80	0.60	0.00
6.30	37	1	1.90	0.60	0.00
6.40	35	2	2.00	0.60	0.00
6.50	31	2	2.00	0.60	0.00
6.60	30	2	1.90	0.60	0.00
6.70	30	3	1.90	0.60	0.00
6.80	35	2	1.90	0.60	0.00
6.90	31	2	1.80	0.60	0.00
7.00	31	2	1.90	0.60	1.25
7.10	29	2	2.00	0.60	1.37
7.20	28	2	2.00	0.70	1.26
7.30	27	2	1.90	0.70	1.94
7.40	24	2	1.80	0.70	1.86
7.50	29	2	1.90	0.70	1.48
7.60	35	3	2.00	0.70	1.53
7.70	31	2	2.00	0.70	1.67
7.80	30	2	1.90	0.70	1.75
7.90	30	3	2.00	0.70	1.83
8.00	25	2	1.90	0.70	2.18
8.10	26	2	2.10	0.70	2.38
8.20	24	2	2.10	0.70	2.45
8.30	26	2	2.10	0.70	2.86
8.40	29	2	2.10	0.70	2.97
8.50	27	2	2.10	0.70	2.65
8.60	28	2	2.10	0.70	2.31
8.70	27	2	2.10	0.70	2.68
8.80	26	2	2.10	0.70	2.47
8.90	26	3	2.10	0.70	2.23
9.00	26	2	2.10	0.70	3.42
9.10	21	2	2.10	0.70	3.65
9.20	21	2	2.10	0.70	3.28
9.30	20	2	2.10	0.70	3.79
9.40	23	2	2.10	0.70	5.23
9.50	24	1	2.10	0.70	5.19
9.60	28	2	2.10	0.70	2.68
9.70	26	2	2.10	0.70	3.69
9.80	24	1	2.10	0.70	3.74
9.90	27	1	2.10	0.70	3.64
10.00	28	1	2.10	0.90	4.21
10.10	29	1	2.10	0.90	4.18
10.20	26	2	2.10	0.90	4.68
10.30	26	2	2.10	0.90	4.65
10.40	24	2	2.10	0.90	4.87
10.50	28	2	2.10	0.90	4.98
10.60	27	2	2.10	0.90	4.58
10.70	31	2	2.10	0.90	4.71
10.80	29	2	2.10	0.90	6.27
10.90	29	2	2.10	0.90	6.47
11.00	27	2	2.10	0.90	3.26
11.10	31	2	2.10	0.90	4.86
11.20	32	2	2.10	0.90	5.67
11.30	35	2	2.10	0.90	5.34
11.40	36	3	2.10	0.90	5.98
11.50	34	2	2.10	0.90	5.67
11.60	39	3	2.10	0.90	5.47
11.70	34	2	2.10	0.90	5.78
11.80	38	3	2.10	0.90	5.69
11.90	39	3	2.10	0.90	5.87

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
12.00	41	3	2.10	0.90	6.14
12.10	40	3	2.10	0.90	6.34
12.20	42	3	2.10	0.90	6.48
12.30	43	3	2.10	0.90	6.21
12.40	40	3	2.10	0.90	6.09
12.50	38	3	2.10	0.90	6.87
12.60	34	2	2.10	0.90	6.54
12.70	34	2	2.10	0.90	6.98
12.80	32	2	2.10	0.90	6.32
12.90	35	3	2.20	0.90	6.57
13.00	39	3	2.20	0.90	7.45
13.10	38	3	2.20	0.90	7.65
13.20	38	3	2.20	0.90	7.25
13.30	29	2	2.20	1.00	7.87
13.40	28	2	2.20	1.00	7.19
13.50	27	2	2.20	1.00	7.96
13.60	28	2	2.20	1.00	7.01
13.70	24	2	2.20	1.00	7.26
13.80	26	2	2.20	1.00	7.56
13.90	29	2	2.20	1.00	7.41
14.00	27	2	2.20	1.00	8.25
14.10	28	2	2.20	1.00	8.14
14.20	26	2	2.20	1.00	4.85
14.30	26	3	2.20	1.00	5.19
14.40	29	2	2.20	1.00	7.26
14.50	31	2	2.20	1.00	8.47
14.60	35	3	2.20	1.00	8.98
14.70	34	3	2.20	1.00	8.89
14.80	32	2	2.20	1.00	8.67
14.90	30	2	2.20	1.00	8.62
15.00	30	2	2.20	1.00	9.32

PROVA PENETROMETRICA STATICA (C.P.T.U.)

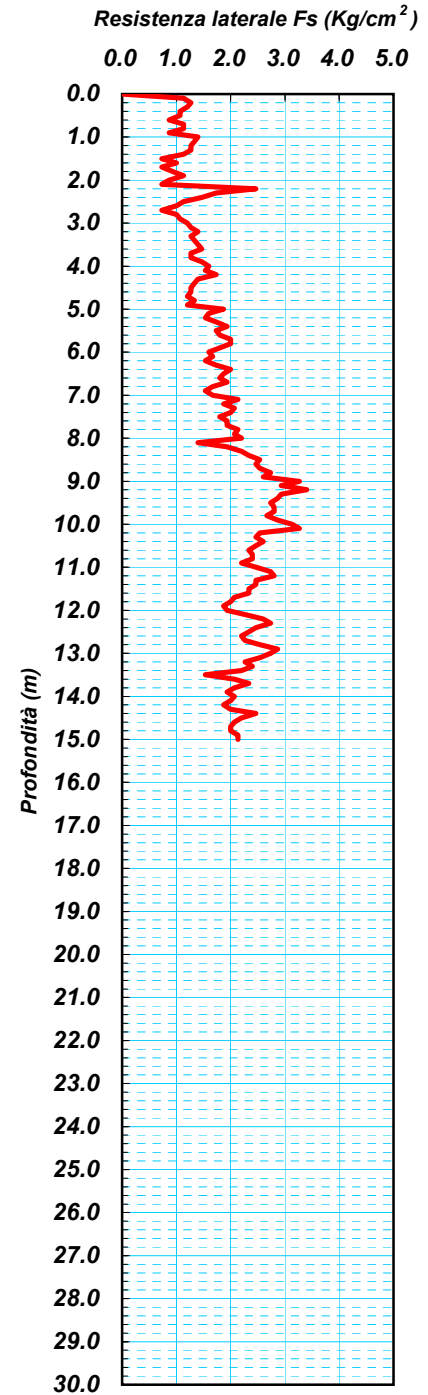
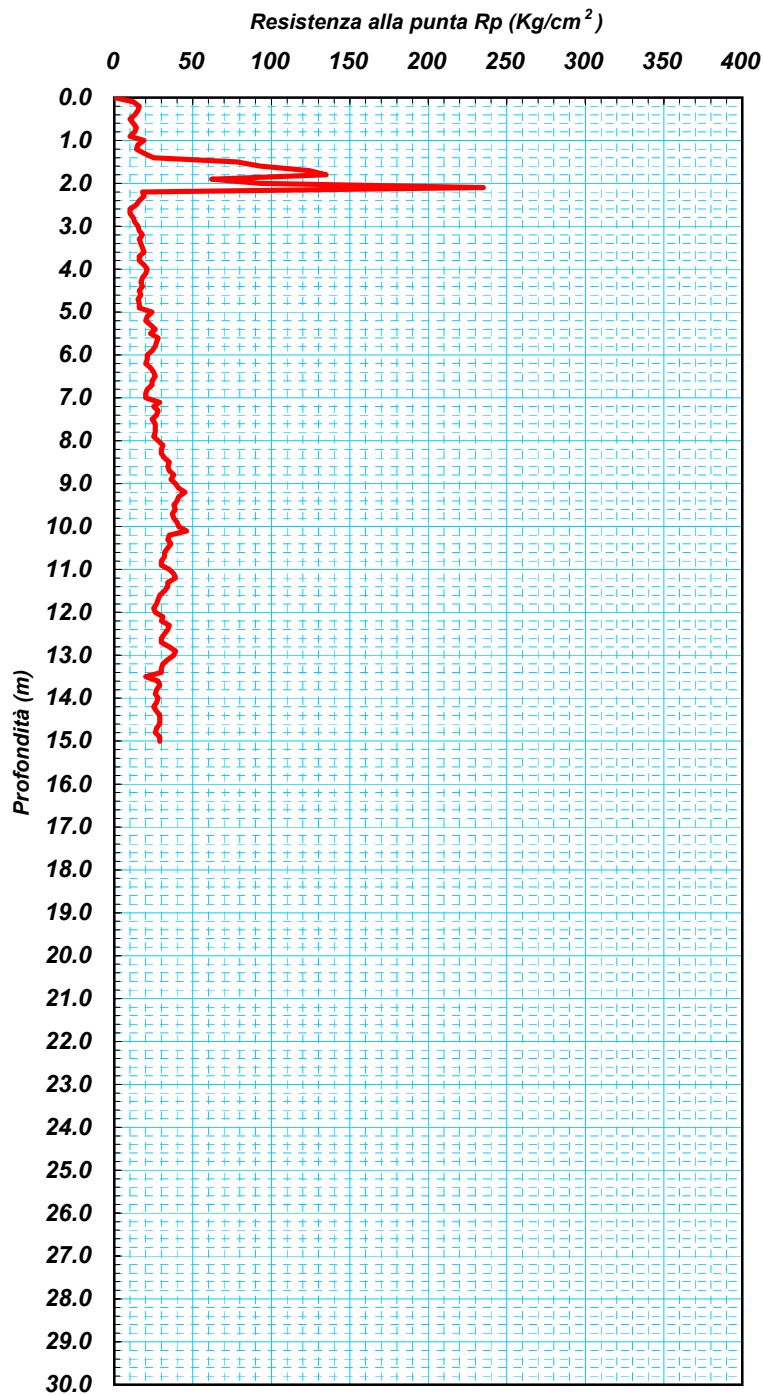
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 151+800

Prova (n): C.P.T.U - 41

Data esecuzione prova: 07/12/2007

Profondità prova (m) 15.00



PROVA PENETROMETRICA STATICA (C.P.T.U.)

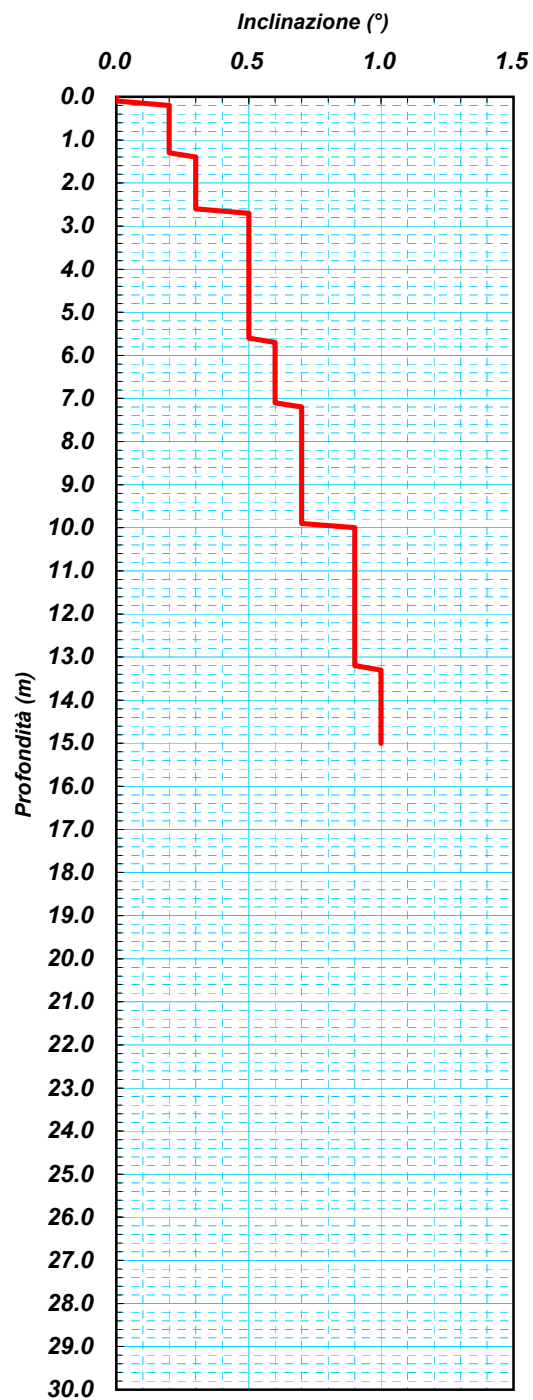
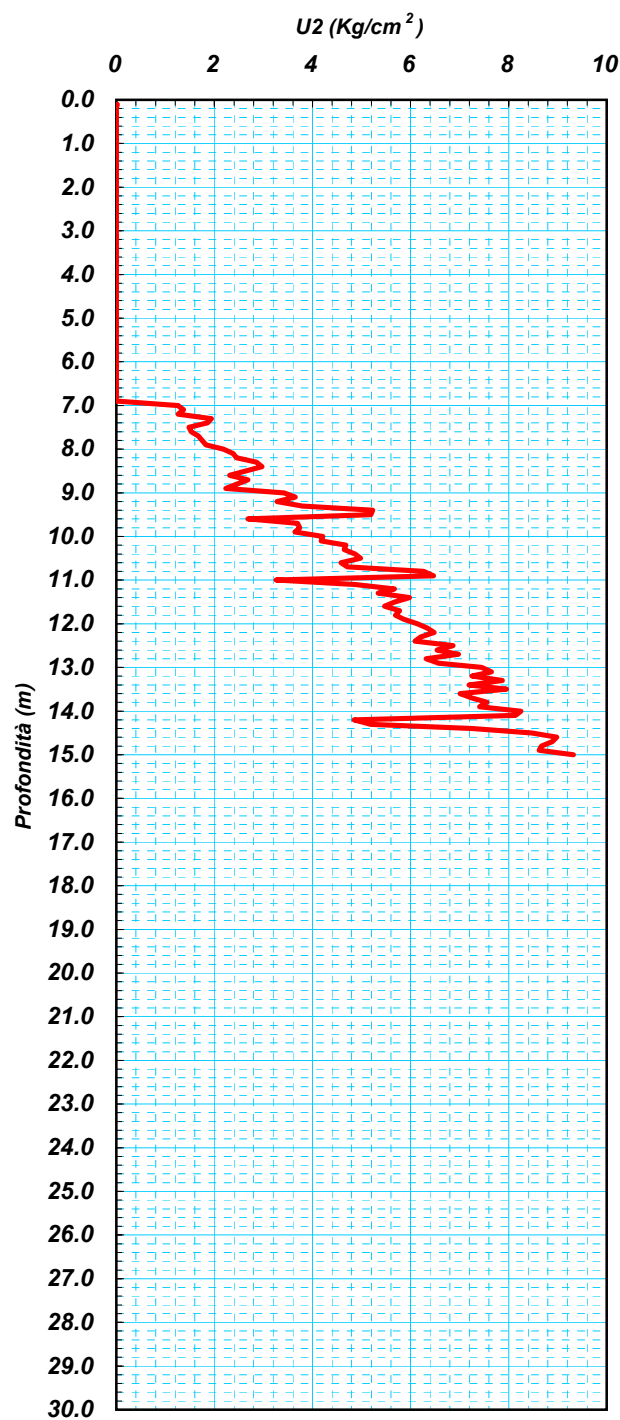
Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 151+800

Prova (n): C.P.T.U - 41

Data esecuzione prova: 07/12/2007

Profondità prova (m) 15.00



Committente: Soc. Autostrade per l'Italia S.p.a.

Cantiere: A1 - Km 151+800

Data esecuzione prova: 07/12/07

Prova (n): C.P.T.U - 41

TABULATO DEI VALORI MISURATI

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
0.00	0.00	0.00	0.00	0.00	0.00
0.10	12	1	0.01	0.00	0.02
0.20	16	1	2.10	0.20	0.00
0.30	15	1	2.10	0.20	0.00
0.40	13	1	2.00	0.20	0.00
0.50	10	1	2.00	0.20	0.00
0.60	12	1	2.20	0.20	0.00
0.70	14	1	2.10	0.20	0.00
0.80	13	1	2.10	0.20	0.00
0.90	10	1	2.20	0.20	0.00
1.00	19	1	2.00	0.20	0.00
1.10	15	1	2.00	0.20	0.00
1.20	14	1	2.00	0.20	0.00
1.30	19	1	2.10	0.20	0.00
1.40	25	1	1.90	0.30	0.00
1.50	78	1	1.90	0.30	0.00
1.60	93	1	2.10	0.30	0.00
1.70	124	1	2.00	0.30	0.00
1.80	135	1	2.00	0.30	0.00
1.90	62	1	2.00	0.30	0.00
2.00	93	1	2.00	0.30	0.00
2.10	235	1	1.90	0.30	0.00
2.20	18	2	2.20	0.30	0.00
2.30	19	2	2.00	0.30	0.00
2.40	16	1	2.00	0.30	0.00
2.50	14	1	2.00	0.30	0.00
2.60	10	1	2.00	0.30	0.00
2.70	10	1	2.00	0.50	0.00
2.80	12	1	2.10	0.50	0.00
2.90	13	1	2.10	0.50	0.00
3.00	15	1	2.10	0.50	0.00
3.10	16	1	2.00	0.50	0.00
3.20	18	1	2.10	0.50	0.00
3.30	16	1	2.10	0.50	0.00
3.40	17	1	2.10	0.50	0.00
3.50	18	1	2.10	0.50	0.00
3.60	19	1	2.10	0.50	0.00
3.70	16	1	2.10	0.50	0.00
3.80	16	1	2.10	0.50	0.00
3.90	19	1	2.10	0.50	0.00
4.00	21	2	2.10	0.50	0.00
4.10	20	2	2.10	0.50	0.00
4.20	18	2	2.10	0.50	0.00
4.30	17	1	2.10	0.50	0.00
4.40	18	1	2.10	0.50	0.00
4.50	16	1	2.10	0.50	0.00
4.60	17	1	2.10	0.50	0.00
4.70	15	1	2.10	0.50	0.00
4.80	16	1	2.10	0.50	0.00
4.90	16	1	2.10	0.50	0.00
5.00	24	2	2.10	0.50	0.00
5.10	21	2	2.10	0.50	0.00
5.20	20	2	2.10	0.50	0.00
5.30	23	2	2.10	0.50	0.00
5.40	26	2	2.10	0.50	0.00
5.50	23	2	2.10	0.50	0.00
5.60	28	2	2.10	0.50	0.00
5.70	27	2	2.10	0.60	0.00
5.80	26	2	2.10	0.60	0.00
5.90	24	2	2.10	0.60	0.00

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
6.00	21	2	2.10	0.60	0.00
6.10	21	2	2.10	0.60	0.00
6.20	20	2	2.10	0.60	0.00
6.30	23	2	2.10	0.60	0.00
6.40	25	2	2.10	0.60	0.00
6.50	26	2	2.10	0.60	0.00
6.60	24	2	2.20	0.60	0.00
6.70	24	2	2.10	0.60	0.00
6.80	21	2	2.20	0.60	0.00
6.90	20	2	2.10	0.60	0.00
7.00	20	2	2.10	0.60	1.25
7.10	29	2	2.10	0.60	1.37
7.20	25	2	2.20	0.70	1.26
7.30	28	2	2.20	0.70	1.94
7.40	27	2	2.20	0.70	1.86
7.50	24	2	2.20	0.70	1.48
7.60	26	2	2.20	0.70	1.53
7.70	26	2	2.20	0.70	1.67
7.80	26	2	2.20	0.70	1.75
7.90	25	2	2.20	0.70	1.83
8.00	28	2	2.20	0.70	2.18
8.10	31	1	2.20	0.70	2.38
8.20	30	2	2.20	0.70	2.45
8.30	30	2	2.20	0.70	2.86
8.40	32	2	2.20	0.70	2.97
8.50	35	3	2.20	0.70	2.65
8.60	34	2	2.20	0.70	2.31
8.70	35	3	2.20	0.70	2.68
8.80	38	3	2.20	0.70	2.47
8.90	36	3	2.20	0.70	2.23
9.00	39	3	2.20	0.70	3.42
9.10	41	3	2.20	0.70	3.65
9.20	45	3	2.20	0.70	3.28
9.30	41	3	2.20	0.70	3.79
9.40	40	3	2.20	0.70	5.23
9.50	38	3	2.20	0.70	5.19
9.60	39	3	2.20	0.70	2.68
9.70	37	3	2.20	0.70	3.69
9.80	38	3	2.20	0.70	3.74
9.90	40	3	2.20	0.70	3.64
10.00	41	3	2.20	0.90	4.21
10.10	46	3	2.20	0.90	4.18
10.20	35	3	2.20	0.90	4.68
10.30	34	2	2.20	0.90	4.65
10.40	36	3	2.20	0.90	4.87
10.50	34	2	2.20	0.90	4.98
10.60	32	2	2.20	0.90	4.58
10.70	32	2	2.20	0.90	4.71
10.80	30	2	2.20	0.90	6.27
10.90	30	2	2.20	0.90	6.47
11.00	35	2	2.20	0.90	3.26
11.10	38	3	2.20	0.90	4.86
11.20	39	3	2.20	0.90	5.67
11.30	34	2	2.20	0.90	5.34
11.40	34	2	2.20	0.90	5.98
11.50	32	2	2.20	0.90	5.67
11.60	29	2	2.20	0.90	5.47
11.70	28	2	2.20	0.90	5.78
11.80	27	2	2.20	0.90	5.69
11.90	25	2	2.20	0.90	5.87

Prof.	Rp	Fs	Veloc.	Inclinaz.	U ₂
(m)	Kg/cm ²	Kg/cm ²	cm/sec	(°)	Kg/cm ²
12.00	26	2	2.20	0.90	6.14
12.10	31	2	2.20	0.90	6.34
12.20	30	3	2.20	0.90	6.48
12.30	35	3	2.20	0.90	6.21
12.40	34	2	2.20	0.90	6.09
12.50	32	2	2.20	0.90	6.87
12.60	30	2	2.20	0.90	6.54
12.70	30	2	2.20	0.90	6.98
12.80	35	3	2.20	0.90	6.32
12.90	39	3	2.20	0.90	6.57
13.00	38	3	2.20	0.90	7.45
13.10	34	3	2.20	0.90	7.65
13.20	31	2	2.20	0.90	7.25
13.30	30	2	2.20	1.00	7.87
13.40	30	2	2.20	1.00	7.19
13.50	20	2	2.20	1.00	7.96
13.60	28	2	2.20	1.00	7.01
13.70	29	2	2.20	1.00	7.26
13.80	27	2	2.20	1.00	7.56
13.90	26	2	2.20	1.00	7.41
14.00	28	2	2.20	1.00	8.25
14.10	27	2	2.20	1.00	8.14
14.20	25	2	2.20	1.00	4.85
14.30	27	2	2.20	1.00	5.19
14.40	29	2	2.20	1.00	7.26
14.50	29	2	2.20	1.00	8.47
14.60	29	2	2.20	1.00	8.98
14.70	27	2	2.20	1.00	8.89
14.80	26	2	2.20	1.00	8.67
14.90	29	2	2.20	1.00	8.62
15.00	29	2	2.20	1.00	9.32