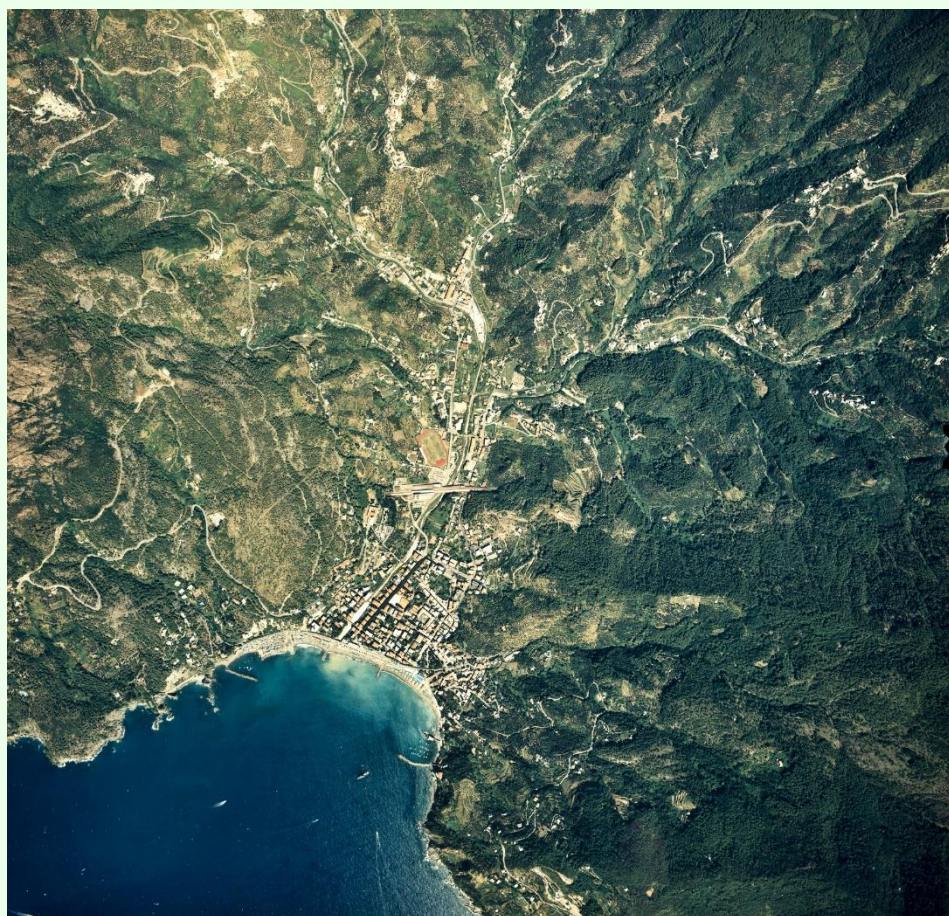


**PIANO DI BACINO STRALCIO
PER LA TUTELA DAL RISCHIO IDROGEOLOGICO
(ai sensi dell'art. 1, comma 1, del D.L. 180/1998 convertito con L. 267/1998)**

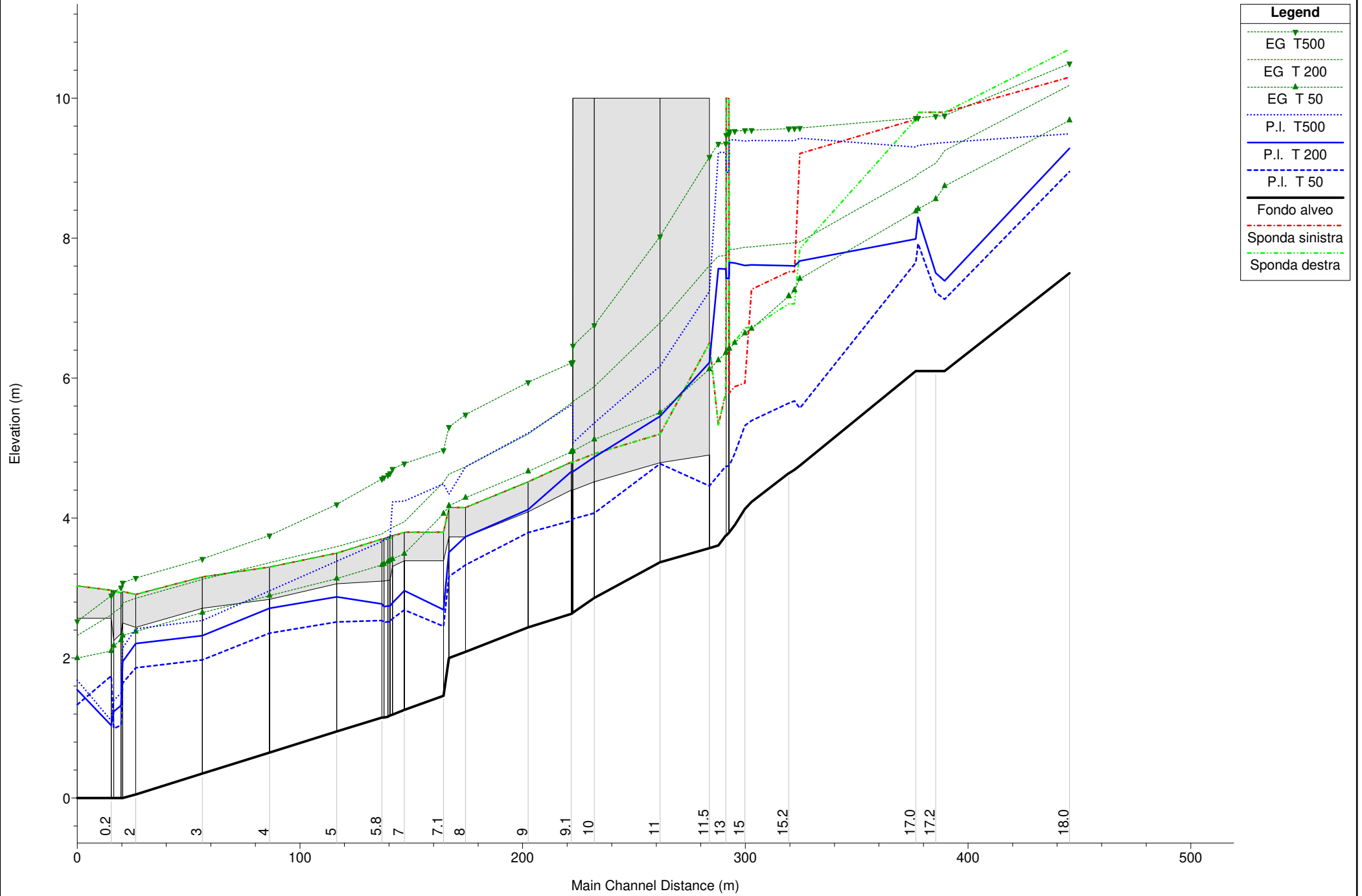
AMBITO 18 – Ghiararo



**VERIFICHE IDRAULICHE
TORRENTE CANTARANA E AFFLUENTI
*LEVANTO***

APPROVAZIONE	Delibera del Consiglio Provinciale della Spezia n. 51 del 05/05/2003
ULTIMA MODIFICA DELL'ELABORATO	Decreto del Direttore Generale n. 4387 del 03/08/2020
ENTRATA IN VIGORE	Pubblicazione sul BURL n. 34 del 19/08/2020 – parte II

Cantarana



1 cm Horiz. = 22 m 1 cm Vert. = 0.7 m

Reach	River Sta	Profile	Q Total	Cum Ch Len	LOB Elev	ROB Elev	Min Ch El	W.S. Elev	E.G. Elev	Max Chl Dpth	Hydr Depth	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
Cantarana	18.0	T 200	45.00	445.52	10.30	10.70	7.50	9.28	10.19	1.78	1.78	4.20	10.71	6.00	1.00
Cantarana	18.0	T 50	33.00	445.52	10.30	10.70	7.50	8.95	9.68	1.45	1.45	3.79	8.71	6.00	1.00
Cantarana	18.0	T500	53.00	445.52	10.30	10.70	7.50	9.49	10.49	1.99	1.99	4.44	11.94	6.00	1.00
Cantarana	17.3	T 200	45.00	389.52	9.80	9.80	6.10	7.39	9.25	1.29	1.24	6.04	7.45	6.00	1.73
Cantarana	17.3	T 50	33.00	389.52	9.80	9.80	6.10	7.13	8.74	1.03	0.98	5.63	5.86	6.00	1.82
Cantarana	17.3	T500	53.00	389.52	9.80	9.80	6.10	9.37	9.75	3.27	3.22	2.75	19.31	6.00	0.49
Cantarana	17.2	T 200	45.00	385.52	9.80	9.80	6.10	7.50	9.07	1.40	1.35	5.55	8.11	6.00	1.52
Cantarana	17.2	T 50	33.00	385.52	9.80	9.80	6.10	7.23	8.56	1.13	1.08	5.11	6.45	6.00	1.57
Cantarana	17.2	T500	53.00	385.52	9.80	9.80	6.10	9.35	9.74	3.25	3.20	2.76	19.23	6.00	0.49
Cantarana	17.1	T 200	45.00	377.52	9.80	9.80	6.10	8.30	8.92	2.20	2.15	3.49	12.90	6.00	0.76
Cantarana	17.1	T 50	33.00	377.52	9.80	9.80	6.10	7.92	8.41	1.82	1.77	3.10	10.65	6.00	0.74
Cantarana	17.1	T500	53.00	377.52	9.80	9.80	6.10	9.33	9.72	3.23	3.18	2.78	19.06	6.00	0.50
Cantarana	17.0	T 200	45.00	376.52	9.70	9.70	6.10	7.99	8.89	1.89	1.79	4.20	10.73	6.00	1.00
Cantarana	17.0	T 50	33.00	376.52	9.70	9.70	6.10	7.65	8.38	1.55	1.45	3.78	8.73	6.00	1.00
Cantarana	17.0	T500	53.00	376.52	9.70	9.70	6.10	9.30	9.72	3.20	3.10	2.85	18.62	6.00	0.52
Cantarana	16	T 200	45.00	324.52	9.21	7.85	4.75	7.68	7.95	2.93	2.93	2.31	19.51	6.67	0.43
Cantarana	16	T 50	33.00	324.52	9.21	7.85	4.75	5.57	7.42	0.82	0.82	6.02	5.48	6.67	2.12
Cantarana	16	T500	53.00	324.52	9.21	7.85	4.75	9.43	9.57	4.68	4.50	1.69	31.84	7.07	0.25
Cantarana	15.4	T 200	45.00	322.02	7.52	7.06	4.69	7.60	7.94	2.91	2.89	2.55	17.66	6.10	0.48
Cantarana	15.4	T 50	33.00	322.02	7.52	7.06	4.69	5.67	7.26	0.98	0.98	5.57	5.92	6.04	1.80
Cantarana	15.4	T500	53.00	322.02	7.52	7.06	4.69	9.39	9.57	4.70	4.68	1.85	28.57	6.10	0.27
Cantarana	15.3	T 200	45.00	319.52	7.52	7.06	4.64	7.61	7.93	2.97	2.95	2.50	17.98	6.10	0.47
Cantarana	15.3	T 50	33.00	319.52	7.52	7.06	4.64	5.64	7.17	1.00	1.00	5.48	6.02	6.04	1.75
Cantarana	15.3	T500	53.00	319.52	7.52	7.06	4.64	9.39	9.57	4.75	4.73	1.84	28.88	6.10	0.27
Cantarana	15.2	T 200	45.00	319.42	7.52	7.06	4.64	7.61	7.93	2.97	2.95	2.50	17.97	6.10	0.47
Cantarana	15.2	T 50	33.00	319.42	7.52	7.06	4.64	5.64	7.17	1.00	1.00	5.48	6.02	6.04	1.75
Cantarana	15.2	T500	53.00	319.42	7.52	7.06	4.64	9.39	9.57	4.75	4.73	1.84	28.88	6.10	0.27
Cantarana	15.1	T 200	45.00	302.77	7.27	6.72	4.23	7.62	7.87	3.39	3.28	2.25	20.04	6.10	0.40
Cantarana	15.1	T 50	33.00	302.77	7.27	6.72	4.23	5.39	6.71	1.16	1.08	5.07	6.50	6.04	1.56
Cantarana	15.1	T500	53.00	302.77	7.27	6.72	4.23	9.39	9.55	5.16	5.06	1.72	30.88	6.10	0.24
Cantarana	15	T 200	45.00	299.77	5.93	6.72	4.13	7.61	7.87	3.48	3.39	2.26	19.91	5.87	0.39
Cantarana	15	T 50	33.00	299.77	5.93	6.72	4.13	5.32	6.64	1.19	1.11	5.09	6.49	5.87	1.54
Cantarana	15	T500	53.00	299.77	5.93	6.72	4.13	9.39	9.54	5.26	5.17	1.75	30.34	5.87	0.25
Cantarana	14	T 200	45.00	295.27	5.88	6.52	3.90	7.65	7.84	3.75	3.68	1.97	22.83	6.21	0.33
Cantarana	14	T 50	33.00	295.27	5.88	6.52	3.90	4.92	6.50	1.02	0.95	5.57	5.92	6.20	1.82
Cantarana	14	T500	53.00	295.27	5.88	6.52	3.90	9.40	9.53	5.50	5.43	1.57	33.75	6.21	0.22
Cantarana	13.3	T 200	45.00	292.77	5.79	6.51	3.80	7.65	7.84	3.85	3.84	1.90	23.66	6.17	0.31

HEC-RAS Plan: 0.025 River: Cantarana Reach: Cantarana (Continued)

Reach	River Sta	Profile	Q Total	Cum Ch Len	LOB Elev	ROB Elev	Min Ch El	W.S. Elev	E.G. Elev	Max Chl Dpth	Hydr Depth	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
Cantarana	13.3	T 50	33.00	292.77	5.79	6.51	3.80	4.75	6.42	0.95	0.93	5.72	5.77	6.17	1.89
Cantarana	13.3	T500	53.00	292.77	5.79	6.51	3.80	9.41	9.53	5.61	5.59	1.54	34.49	6.17	0.21
Cantarana	13.2	T 200	45.00	292.67	5.35	5.35	3.79	7.43	7.82	3.64		2.76	16.28		0.46
Cantarana	13.2	T 50	33.00	292.67	5.35	5.35	3.79	4.75	6.42	0.96	0.93	5.73	5.76	6.17	1.89
Cantarana	13.2	T500	53.00	292.67	5.35	5.35	3.79	8.94	9.48	5.15		3.26	16.28		0.46
Cantarana	13.1	T 200	45.00	291.37	5.35	5.35	3.75	7.42	7.81	3.67		2.74	16.40		0.46
Cantarana	13.1	T 50	33.00	291.37	5.35	5.35	3.75	4.74	6.37	0.99	0.95	5.65	5.84	6.17	1.85
Cantarana	13.1	T500	53.00	291.37	5.35	5.35	3.75	8.94	9.47	5.19		3.23	16.40		0.45
Cantarana	13	T 200	45.00	291.27	5.79	5.79	3.75	7.56	7.75	3.81	3.77	1.94	23.24	6.17	0.32
Cantarana	13	T 50	33.00	291.27	5.79	5.79	3.75	4.74	6.36	0.99	0.95	5.64	5.85	6.17	1.85
Cantarana	13	T500	53.00	291.27	5.79	5.79	3.75	9.22	9.35	5.47	5.43	1.58	33.52	6.17	0.22
Cantarana	12	T 200	45.00	287.87	5.33	5.33	3.61	7.56	7.74	3.95	3.89	1.88	23.98	6.16	0.30
Cantarana	12	T 50	33.00	287.87	5.33	5.33	3.61	4.61	6.26	1.00	0.94	5.68	5.81	6.16	1.87
Cantarana	12	T500	53.00	287.87	5.33	5.33	3.61	9.23	9.35	5.62	5.56	1.55	34.23	6.16	0.21
Cantarana	11.5	T 200	45.00	283.87	4.90	4.90	3.57	6.22	7.61	2.65		5.21	8.63		1.02
Cantarana	11.5	T 50	33.00	283.87	4.90	4.90	3.57	4.46	6.13	0.89	0.89	5.72	5.77	6.49	1.94
Cantarana	11.5	T500	53.00	283.87	4.90	4.90	3.57	7.24	9.16	3.67		6.14	8.63		1.02
Cantarana	11	T 200	45.00	261.70	4.79	4.79	3.37	5.46	6.79	2.09		5.12	8.79		1.13
Cantarana	11	T 50	33.00	261.70	4.79	4.79	3.37	4.78	5.51	1.41	1.34	3.79	8.71	6.49	1.04
Cantarana	11	T500	53.00	261.70	4.79	4.79	3.37	6.17	8.02	2.80		6.03	8.79		1.15
Cantarana	10	T 200	45.00	232.19	4.52	4.52	2.86	4.87	5.88	2.01		4.44	10.13		1.00
Cantarana	10	T 50	33.00	232.19	4.52	4.52	2.86	4.07	5.12	1.21	1.14	4.54	7.27	6.38	1.36
Cantarana	10	T500	53.00	232.19	4.52	4.52	2.86	5.36	6.76	2.50		5.23	10.13		1.06
Cantarana	9.4	T 200	45.00	222.59	4.40	4.40	2.65	4.66	5.66	2.01		4.43	10.16		1.00
Cantarana	9.4	T 50	33.00	222.59	4.40	4.40	2.65	3.99	4.96	1.34	1.20	4.36	7.56	6.30	1.27
Cantarana	9.4	T500	53.00	222.59	4.40	4.40	2.65	5.07	6.46	2.43		5.22	10.16		1.07
Cantarana	9.3	T 200	45.00	222.49	4.40	4.40	2.65	4.66	5.66	2.01		4.43	10.16		1.00
Cantarana	9.3	T 50	33.00	222.49	4.40	4.40	2.65	3.99	4.96	1.34	1.20	4.36	7.57	6.30	1.27
Cantarana	9.3	T500	53.00	222.49	4.40	4.40	2.65	5.62	6.23	2.97	2.43	3.46	15.30	6.30	0.64
Cantarana	9.2	T 200	45.00	221.97	4.40	4.40	2.63	4.67	5.64	2.04		4.38	10.27		0.98
Cantarana	9.2	T 50	33.00	221.97	4.40	4.40	2.63	3.96	4.95	1.33	1.19	4.40	7.50	6.30	1.29
Cantarana	9.2	T500	53.00	221.97	4.40	4.40	2.63	5.62	6.22	2.99	2.45	3.44	15.41	6.30	0.64
Cantarana	9.1	T 200	45.00	221.87	4.40	4.40	2.63	4.66	5.64	2.03		4.38	10.27		0.98
Cantarana	9.1	T 50	33.00	221.87	4.40	4.40	2.63	3.96	4.95	1.33	1.19	4.39	7.51	6.30	1.28
Cantarana	9.1	T500	53.00	221.87	4.40	4.40	2.63	5.61	6.22	2.98	2.44	3.44	15.40	6.30	0.64
Cantarana	9	T 200	45.00	202.49	4.09	4.09	2.44	4.12	5.20	1.68		4.60	9.79		1.13
Cantarana	9	T 50	33.00	202.49	4.09	4.09	2.44	3.79	4.67	1.35	1.31	4.14	7.97	6.10	1.16

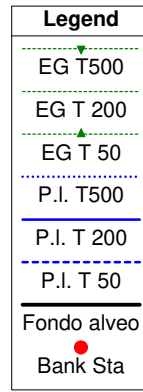
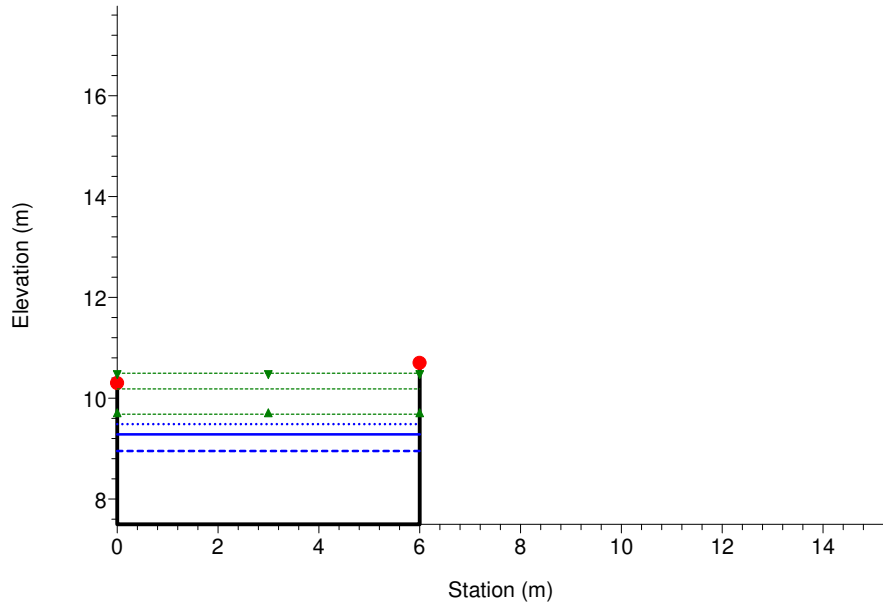
HEC-RAS Plan: 0.025 River: Cantarana Reach: Cantarana (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	LOB Elev (m)	ROB Elev (m)	Min Ch El (m)	W.S. Elev (m)	E.G. Elev (m)	Max Chl Dpth (m)	Hydr Depth (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cantarana	9	T500	53.00	202.49	4.09	4.09	2.44	5.21	5.94	2.78	2.30	3.78	14.03	6.10	0.72
Cantarana	8	T 200	45.00	174.37	3.73	3.73	2.09	3.73	4.73	1.64	1.60	4.43	10.16	6.36	1.12
Cantarana	8	T 50	33.00	174.37	3.73	3.73	2.09	3.33	4.29	1.24	1.19	4.35	7.59	6.36	1.27
Cantarana	8	T500	53.00	174.37	3.73	3.73	2.09	4.73	5.48	2.64	2.18	3.83	13.84	6.36	0.75
Cantarana	7.2	T 200	45.00	166.87	3.73	3.73	2.00	3.51	4.63	1.51	1.51	4.69	9.60	6.36	1.22
Cantarana	7.2	T 50	33.00	166.87	3.73	3.73	2.00	3.17	4.18	1.17	1.17	4.45	7.41	6.36	1.32
Cantarana	7.2	T500	53.00	166.87	3.73	3.73	2.00	4.34	5.30	2.34	1.92	4.34	12.22	6.36	0.91
Cantarana	7.1	T 200	45.00	164.46	3.39	3.39	1.46	2.69	4.51	1.23	1.08	5.98	7.53	7.00	1.84
Cantarana	7.1	T 50	33.00	164.46	3.39	3.39	1.46	2.45	4.06	0.99	0.84	5.62	5.88	7.00	1.96
Cantarana	7.1	T500	53.00	164.46	3.39	3.39	1.46	4.49	4.97	3.03	2.46	3.07	17.25	7.00	0.56
Cantarana	7	T 200	45.00	146.87	3.39	3.39	1.26	2.96	3.95	1.70	1.46	4.40	10.24	7.00	1.16
Cantarana	7	T 50	33.00	146.87	3.39	3.39	1.26	2.69	3.49	1.43	1.19	3.97	8.32	7.00	1.16
Cantarana	7	T500	53.00	146.87	3.39	3.39	1.26	4.24	4.78	2.98	2.33	3.25	16.33	7.00	0.60
Cantarana	6.2	T 200	45.00	141.57	3.31	3.31	1.19	2.79	3.87	1.60	1.28	4.60	9.78	7.62	1.30
Cantarana	6.2	T 50	33.00	141.57	3.31	3.31	1.19	2.56	3.41	1.37	1.06	4.09	8.07	7.62	1.27
Cantarana	6.2	T500	53.00	141.57	3.31	3.31	1.19	4.23	4.70	3.04	2.29	3.04	17.43	7.62	0.56
Cantarana	6.1	T 200	45.00	140.47	3.11	3.11	1.18	2.74	3.85	1.56	1.27	4.65	9.68	7.62	1.32
Cantarana	6.1	T 50	33.00	140.47	3.11	3.11	1.18	2.52	3.40	1.34	1.04	4.15	7.96	7.62	1.30
Cantarana	6.1	T500	53.00	140.47	3.11	3.11	1.18	3.72	4.64	2.54		4.25	12.46		0.85
Cantarana	6.0	T 200	45.00	139.47	3.11	3.11	1.16	2.74	3.83	1.58	1.28	4.61	9.76	7.62	1.30
Cantarana	6.0	T 50	33.00	139.47	3.11	3.11	1.16	2.52	3.38	1.36	1.06	4.10	8.04	7.62	1.28
Cantarana	6.0	T500	53.00	139.47	3.11	3.11	1.16	3.71	4.62	2.55		4.23	12.54		0.85
Cantarana	5.9	T 200	45.00	137.77	3.10	3.10	1.15	2.73	3.79	1.58	1.30	4.56	9.87	7.62	1.28
Cantarana	5.9	T 50	33.00	137.77	3.10	3.10	1.15	2.51	3.35	1.36	1.07	4.05	8.15	7.62	1.25
Cantarana	5.9	T500	53.00	137.77	3.10	3.10	1.15	3.69	4.58	2.54		4.19	12.65		0.84
Cantarana	5.8	T 200	45.00	136.77	3.10	3.10	1.15	2.77	3.77	1.62	1.33	4.43	10.16	7.62	1.22
Cantarana	5.8	T 50	33.00	136.77	3.10	3.10	1.15	2.54	3.33	1.39	1.10	3.95	8.36	7.62	1.20
Cantarana	5.8	T500	53.00	136.77	3.10	3.10	1.15	3.67	4.56	2.52		4.19	12.65		0.84
Cantarana	5	T 200	45.00	116.52	3.06	3.06	0.95	2.88	3.59	1.93	1.70	3.75	12.00	7.05	0.92
Cantarana	5	T 50	33.00	116.52	3.06	3.06	0.95	2.52	3.14	1.57	1.34	3.48	9.47	7.05	0.96
Cantarana	5	T500	53.00	116.52	3.06	3.06	0.95	3.39	4.19	2.44		3.98	13.30		0.82
Cantarana	4	T 200	45.00	86.32	2.84	2.84	0.65	2.71	3.36	2.06	1.85	3.57	12.60	6.82	0.84
Cantarana	4	T 50	33.00	86.32	2.84	2.84	0.65	2.36	2.89	1.70	1.49	3.25	10.17	6.82	0.85
Cantarana	4	T500	53.00	86.32	2.84	2.84	0.65	2.96	3.75	2.31		3.93	13.48		0.83
Cantarana	3	T 200	45.00	56.20	2.71	2.71	0.35	2.32	3.12	1.97	1.72	3.97	11.35	6.58	0.96
Cantarana	3	T 50	33.00	56.20	2.71	2.71	0.35	1.97	2.65	1.62	1.38	3.64	9.06	6.58	0.99
Cantarana	3	T500	53.00	56.20	2.71	2.71	0.35	2.54	3.42	2.19	1.94	4.15	12.76	6.58	0.95

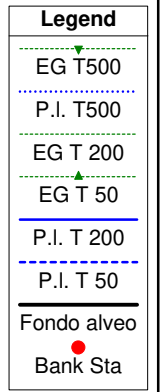
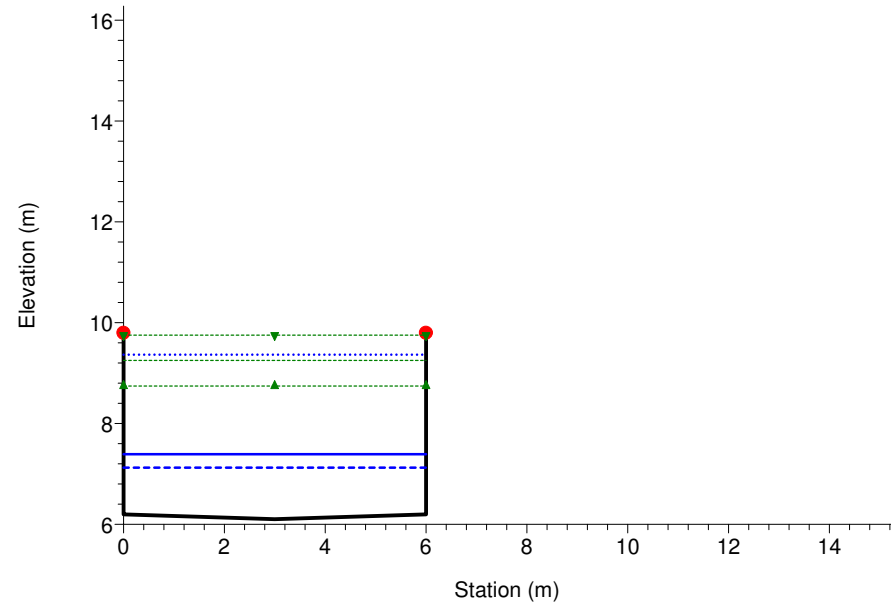
HEC-RAS Plan: 0.025 River: Cantarana Reach: Cantarana (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	LOB Elev (m)	ROB Elev (m)	Min Ch El (m)	W.S. Elev (m)	E.G. Elev (m)	Max Chl Dpth (m)	Hydr Depth (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cantarana	2	T 200	45.00	26.30	2.44	2.44	0.05	2.21	2.85	2.16	1.90	3.56	12.65	6.65	0.82
Cantarana	2	T 50	33.00	26.30	2.44	2.44	0.05	1.86	2.38	1.81	1.56	3.19	10.34	6.65	0.82
Cantarana	2	T500	53.00	26.30	2.44	2.44	0.05	2.42	3.14	2.37	2.11	3.77	14.05	6.65	0.83
Cantarana	1	T 200	45.00	20.40	2.50	2.50	0.00	1.95	2.79	1.95	1.67	4.05	11.10	6.65	1.00
Cantarana	1	T 50	33.00	20.40	2.50	2.50	0.00	1.64	2.32	1.64	1.36	3.65	9.05	6.65	1.00
Cantarana	1	T500	53.00	20.40	2.50	2.50	0.00	2.15	3.08	2.15	1.87	4.27	12.41	6.65	1.00
Cantarana	0.4	T 200	45.00	19.65	2.35	2.35	0.00	1.32	2.72	1.32	1.32	5.23	8.60	6.50	1.45
Cantarana	0.4	T 50	33.00	19.65	2.35	2.35	0.00	1.04	2.26	1.04	1.04	4.88	6.76	6.50	1.53
Cantarana	0.4	T500	53.00	19.65	2.35	2.35	0.00	1.50	3.01	1.50	1.50	5.44	9.74	6.50	1.42
Cantarana	0.3	T 200	45.00	16.40	2.25	2.25	0.00	1.24	2.65	1.24	1.24	5.27	8.53	6.90	1.51
Cantarana	0.3	T 50	33.00	16.40	2.25	2.25	0.00	0.99	2.18	0.99	0.99	4.82	6.85	6.90	1.54
Cantarana	0.3	T500	53.00	16.40	2.25	2.25	0.00	1.39	2.94	1.39	1.39	5.51	9.62	6.90	1.49
Cantarana	0.2	T 200	60.00	15.30	2.57	2.57	0.00	1.04	2.62	1.04	1.04	5.57	10.78	10.40	1.75
Cantarana	0.2	T 50	48.00	15.30	2.57	2.57	0.00	1.74	2.10	1.74	1.74	2.65	18.14	10.40	0.64
Cantarana	0.2	T500	68.00	15.30	2.57	2.57	0.00	1.10	2.89	1.10	1.10	5.92	11.48	10.40	1.80
Cantarana	0.1	T 200	60.00		2.57	2.57	0.00	1.55	2.32	1.55	1.55	3.90	15.39	9.95	1.00
Cantarana	0.1	T 50	48.00		2.57	2.57	0.00	1.33	2.00	1.33	1.33	3.62	13.27	9.95	1.00
Cantarana	0.1	T500	68.00		2.57	2.57	0.00	1.68	2.52	1.68	1.68	4.06	16.73	9.95	1.00

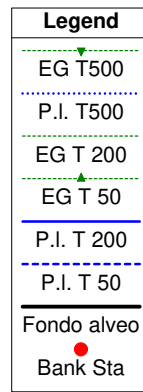
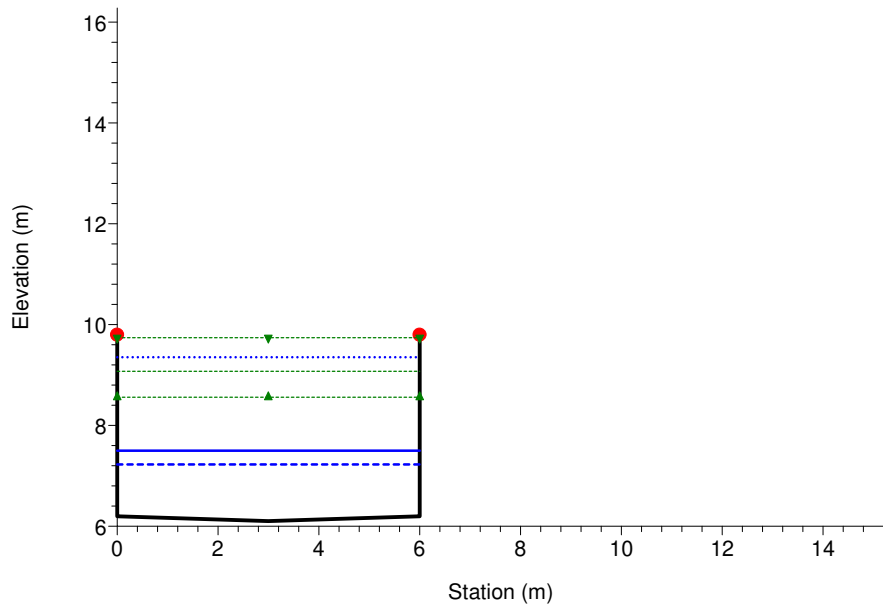
Cantarana
RS = 18.0 Sez. 6.0 del PdB



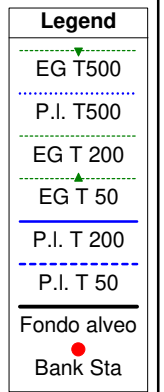
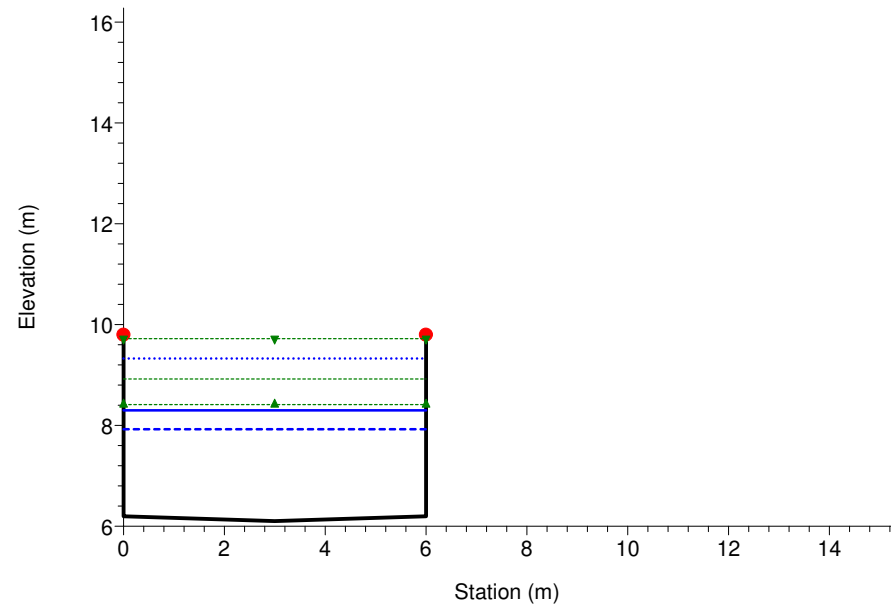
Cantarana
RS = 17.3 Sez. 5.1 del PdB



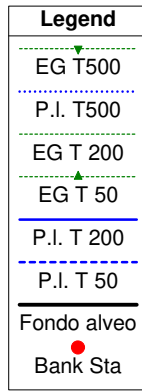
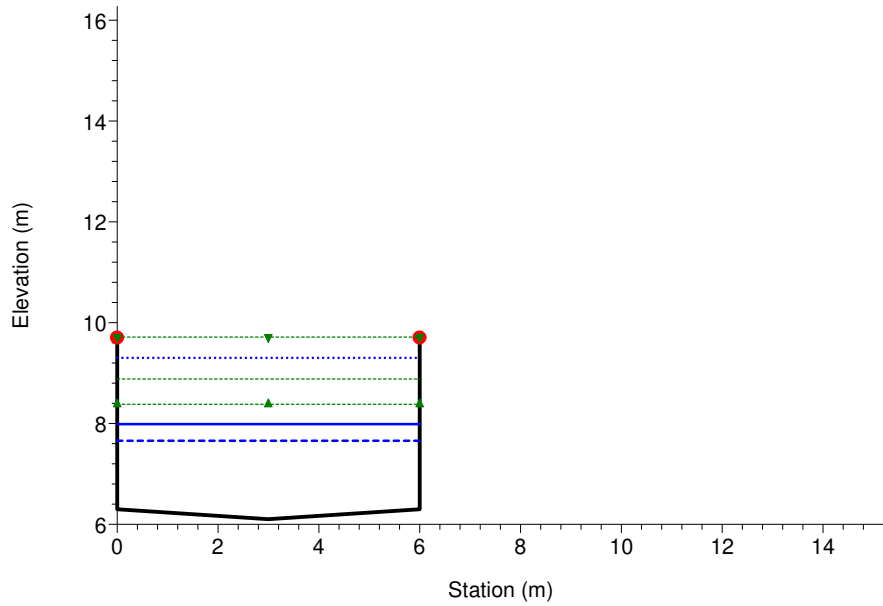
Cantarana
RS = 17.2 Sez. 5.1 del PdB



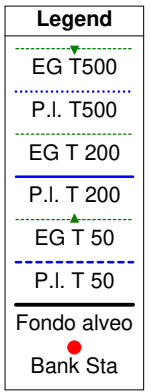
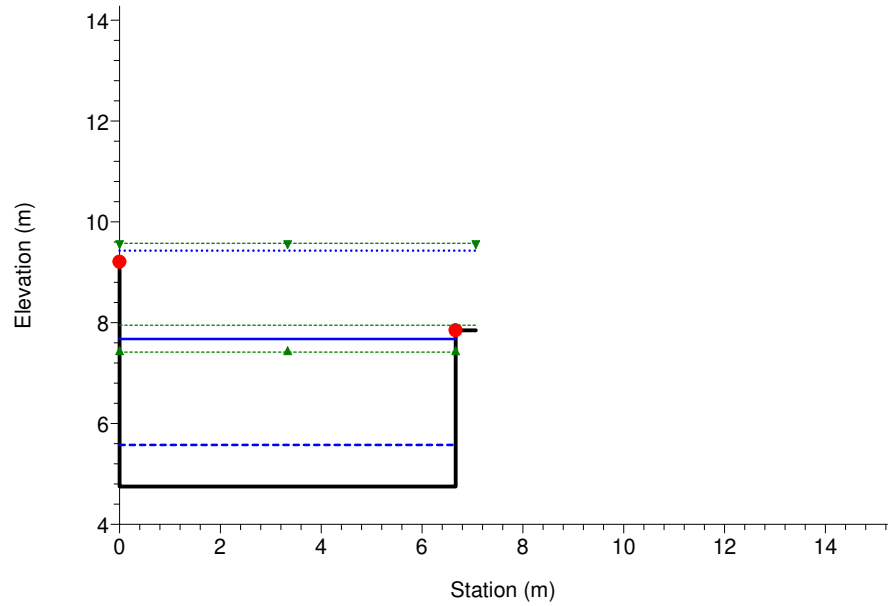
Cantarana
RS = 17.1 Sez. 5.1 del PdB



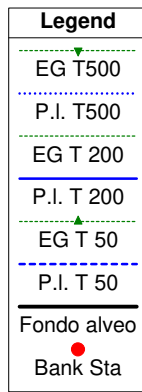
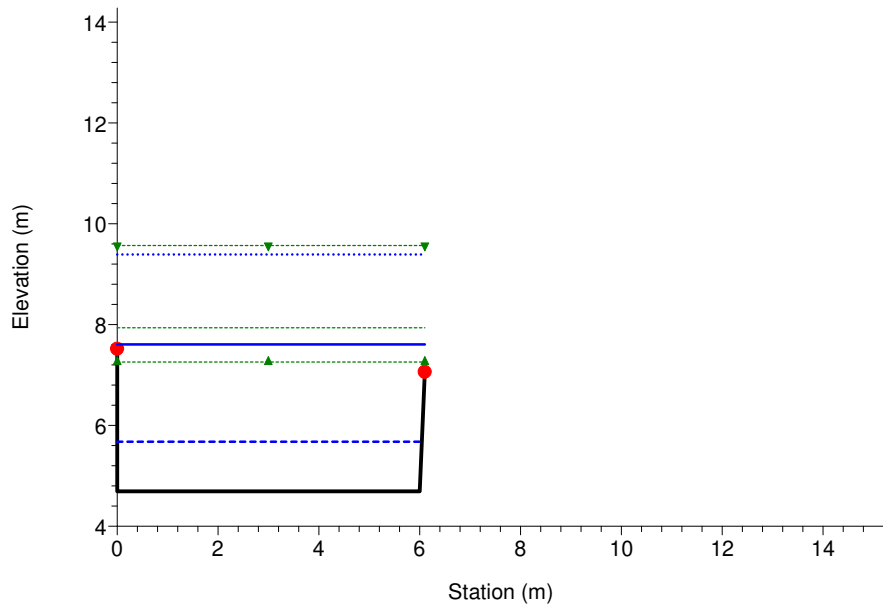
Cantarana
RS = 17.0 Sez. 5.0 del PdB



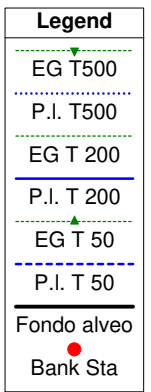
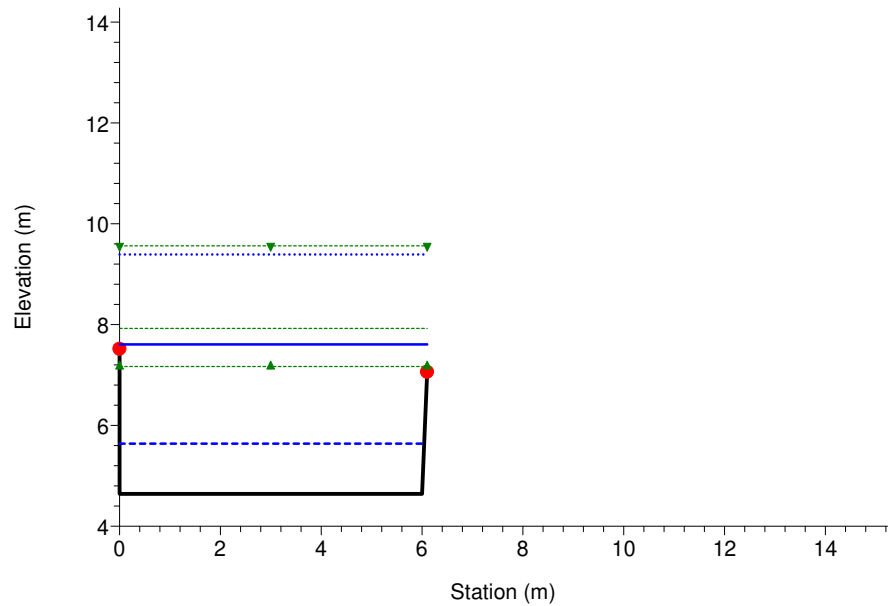
Cantarana
RS = 16 Sez. 16



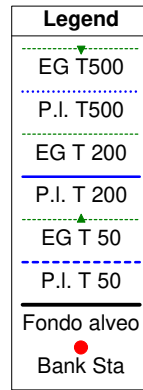
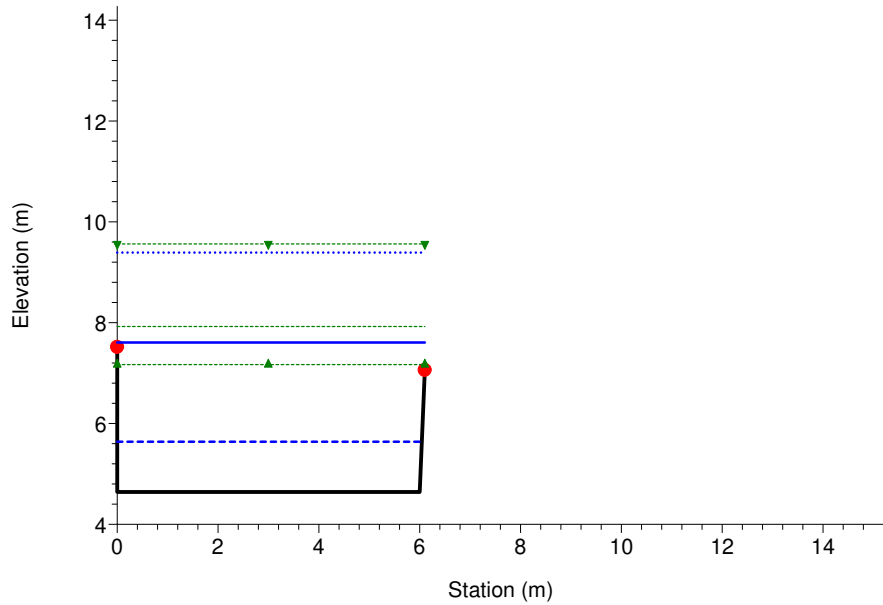
Cantarana
RS = 15.4 Sez. 15.4



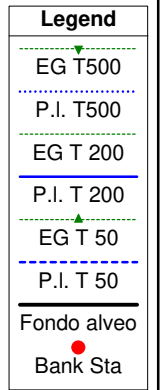
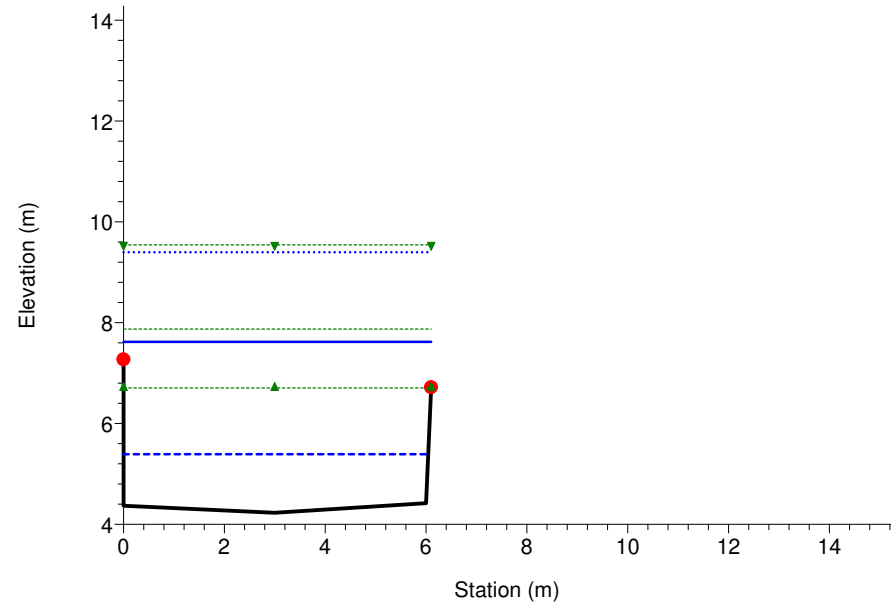
Cantarana
RS = 15.3 Sez. 15.3



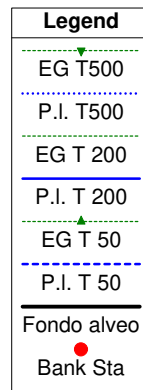
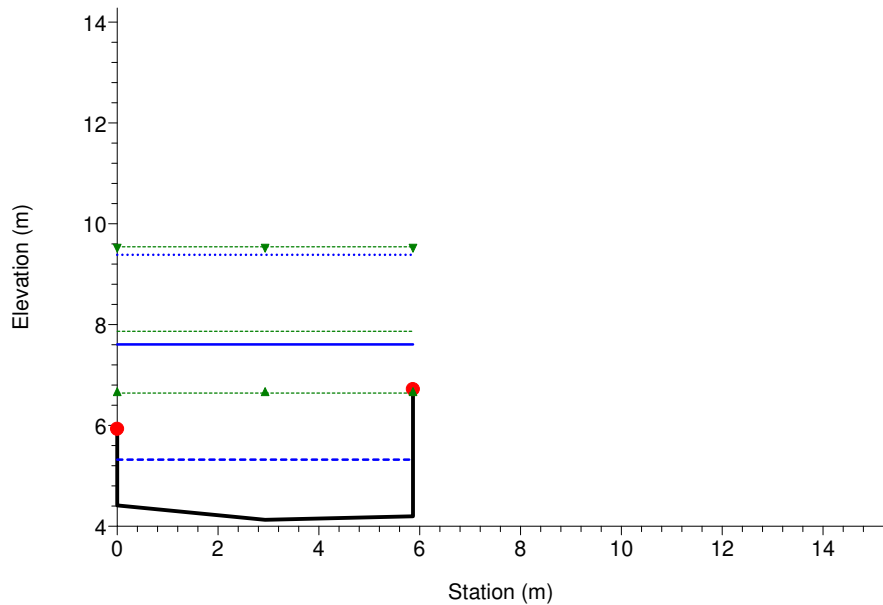
Cantarana
RS = 15.2 Sez. 15.2



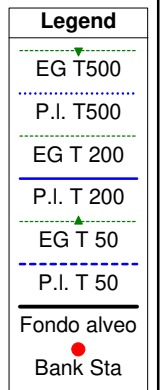
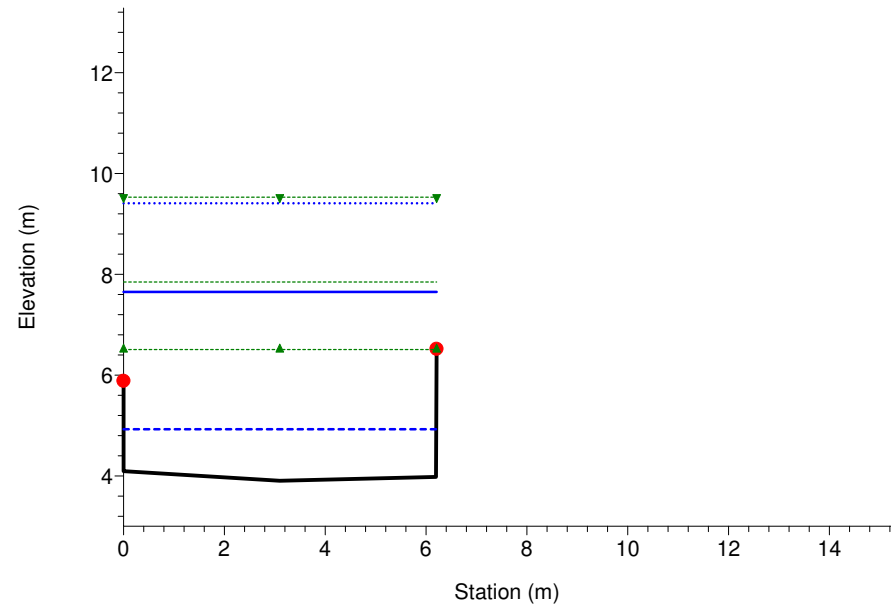
Cantarana
RS = 15.1 Sez. 15.1



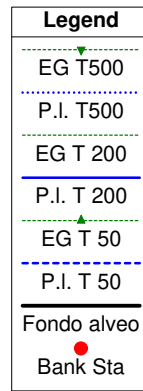
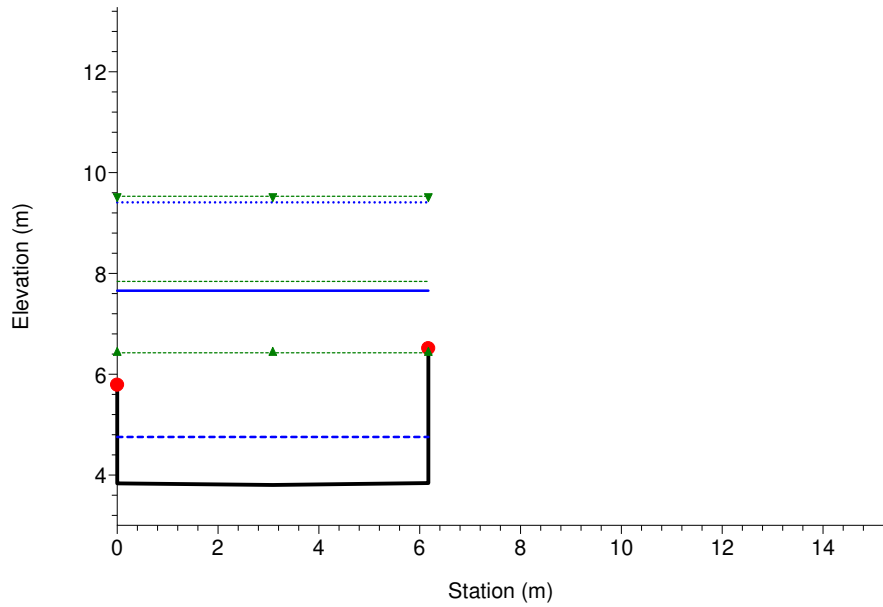
Cantarana
RS = 15 Sez. 15



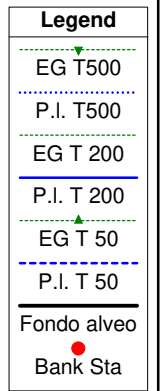
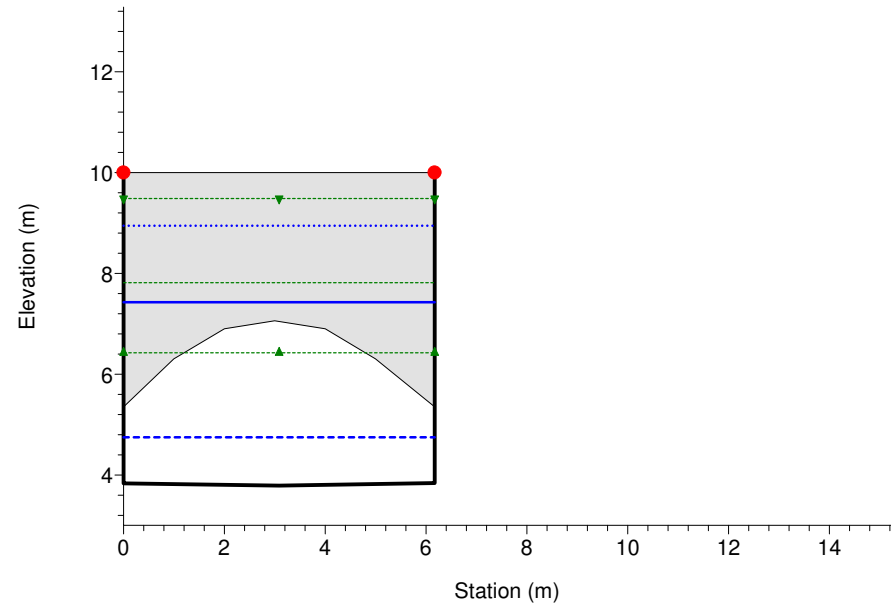
Cantarana
RS = 14 Sez. 14



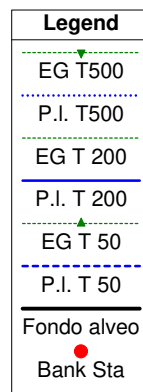
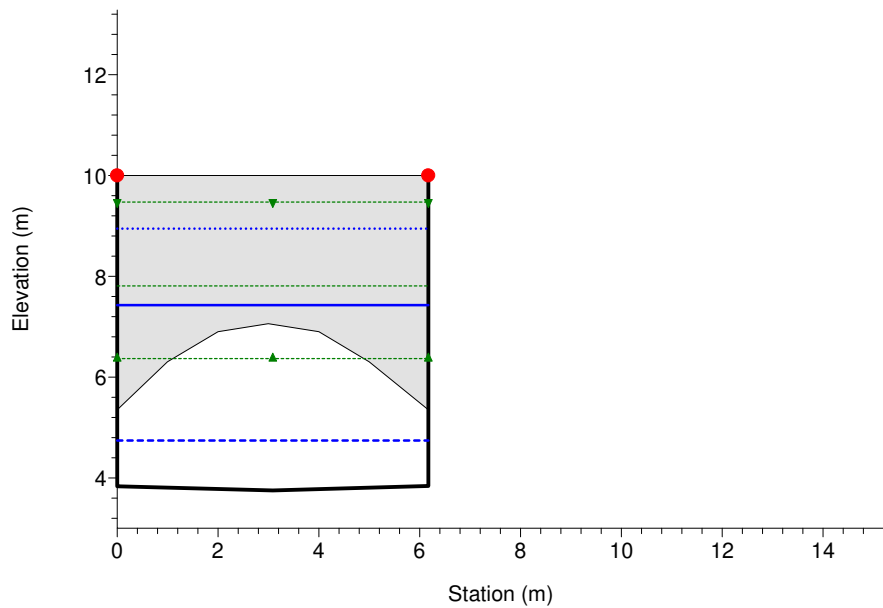
Cantarana
RS = 13.3 Sez. 13.3



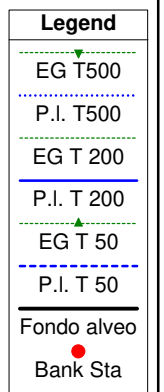
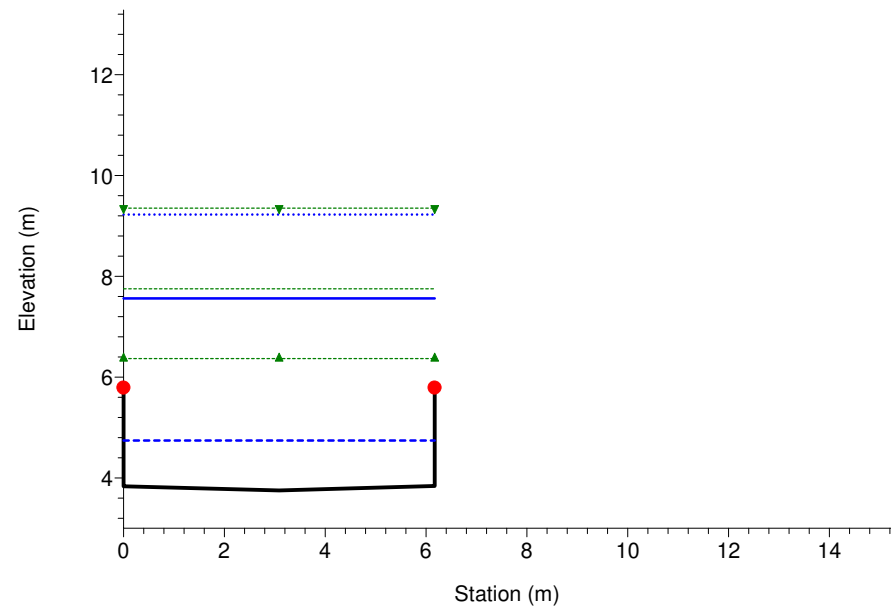
Cantarana
RS = 13.2 Sez. 13.2



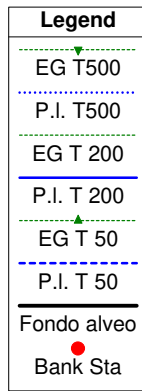
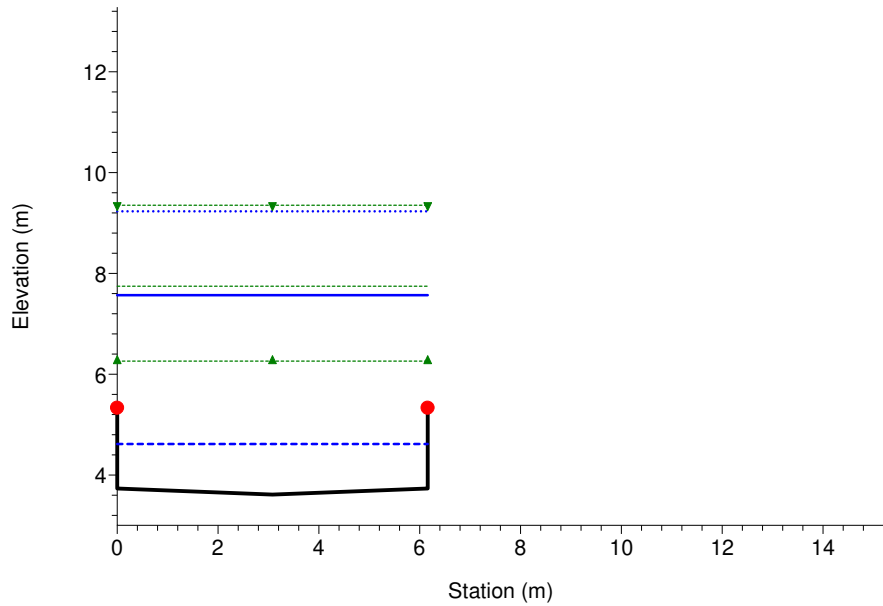
Cantarana
RS = 13.1 Sez. 13.1



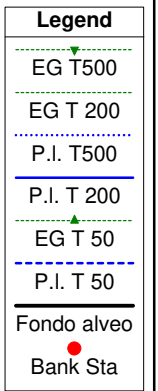
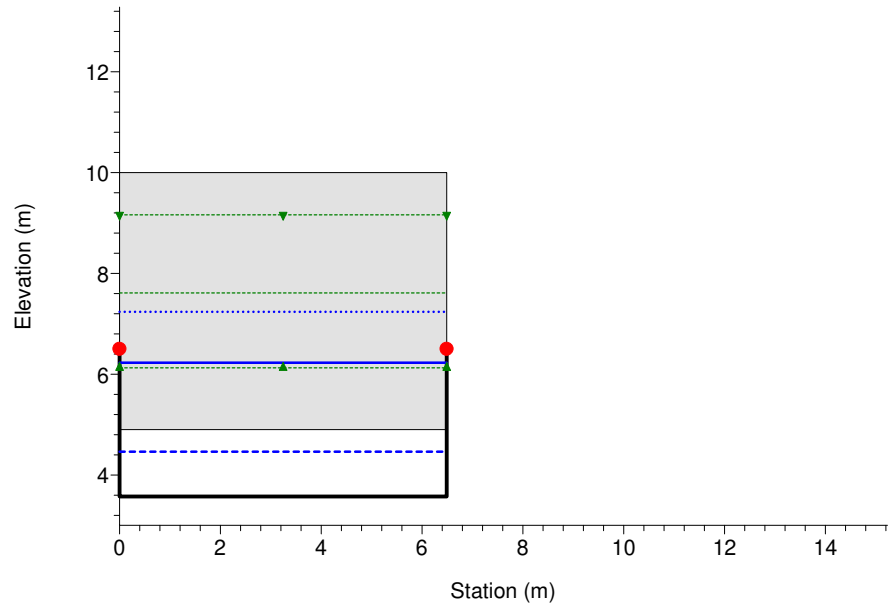
Cantarana
RS = 13 Sez. 13



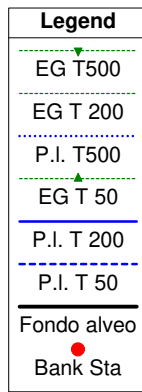
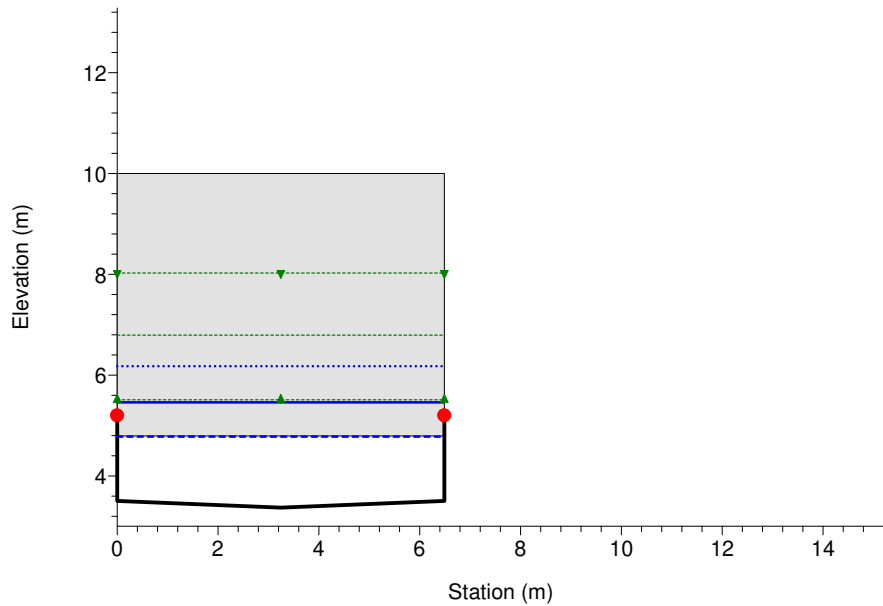
Cantarana
RS = 12 Sez. 12



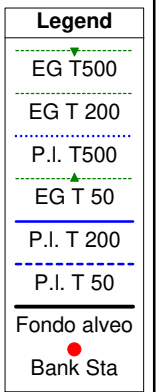
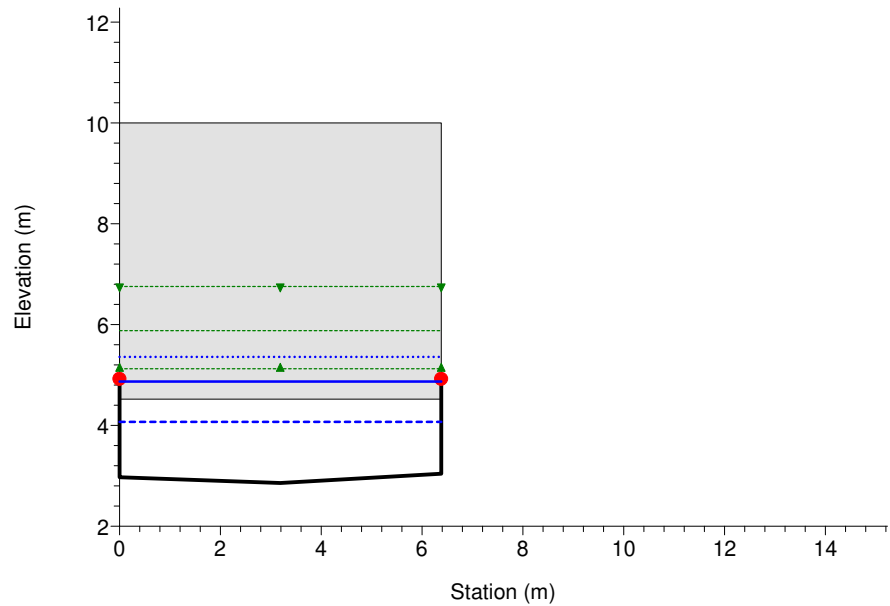
Cantarana
RS = 11.5 Sez. 11.5



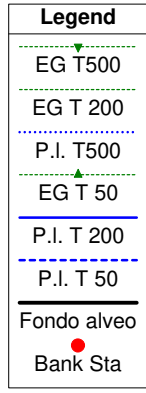
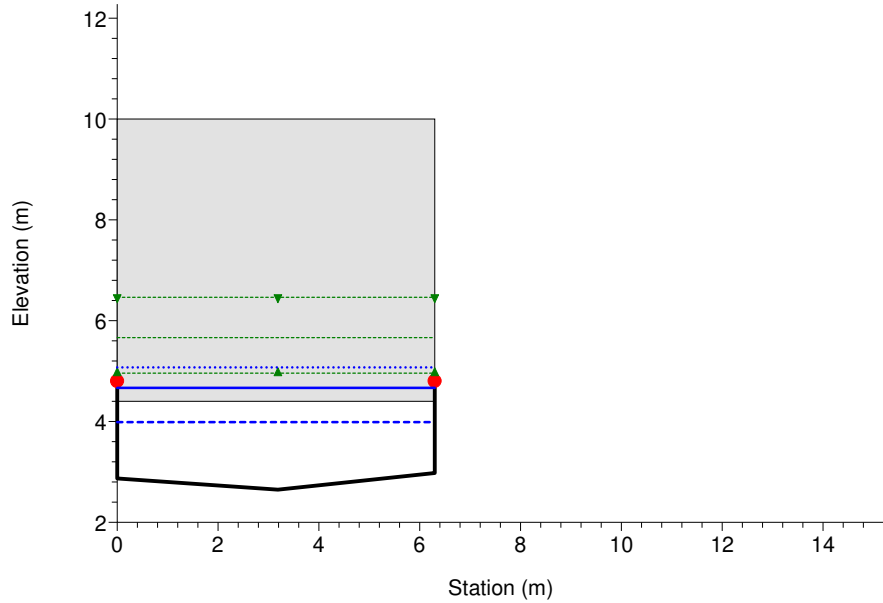
Cantarana
RS = 11 Sez. 11



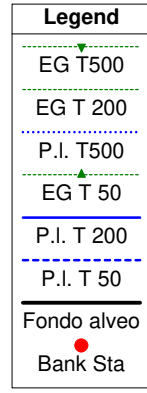
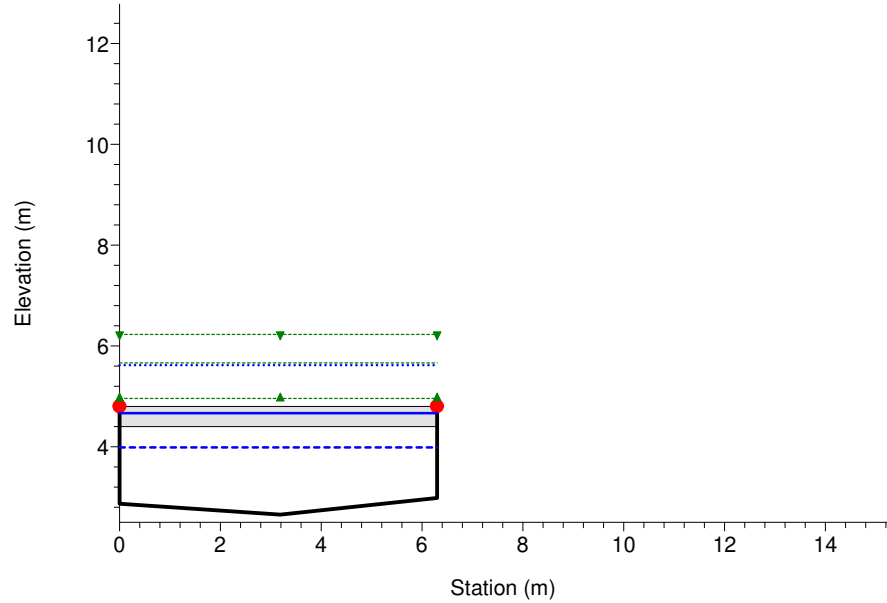
Cantarana
RS = 10 Sez. 10



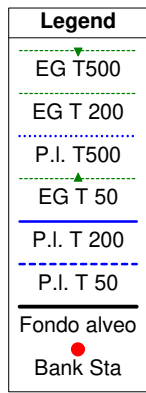
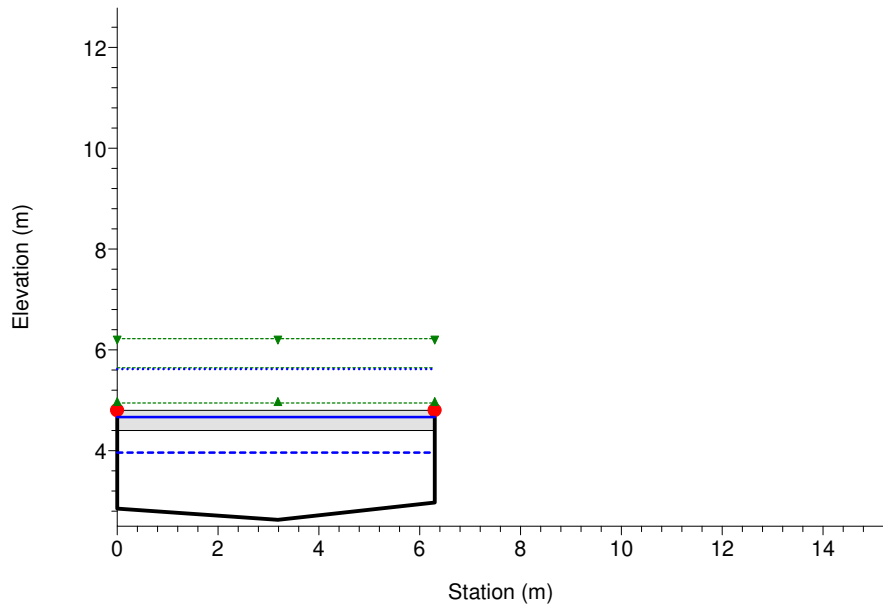
Cantarana
RS = 9.4 Sez. 9.4



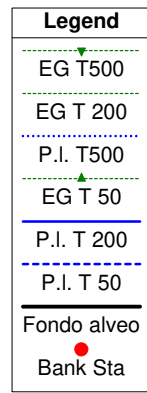
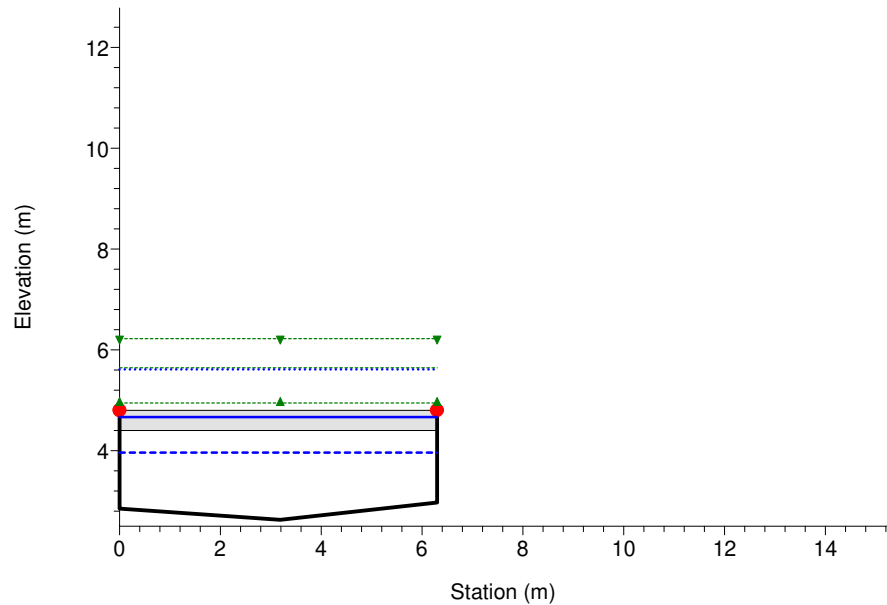
Cantarana
RS = 9.3 Sez. 9.3



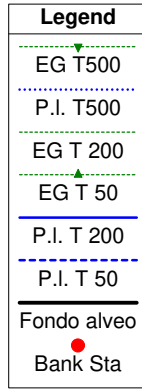
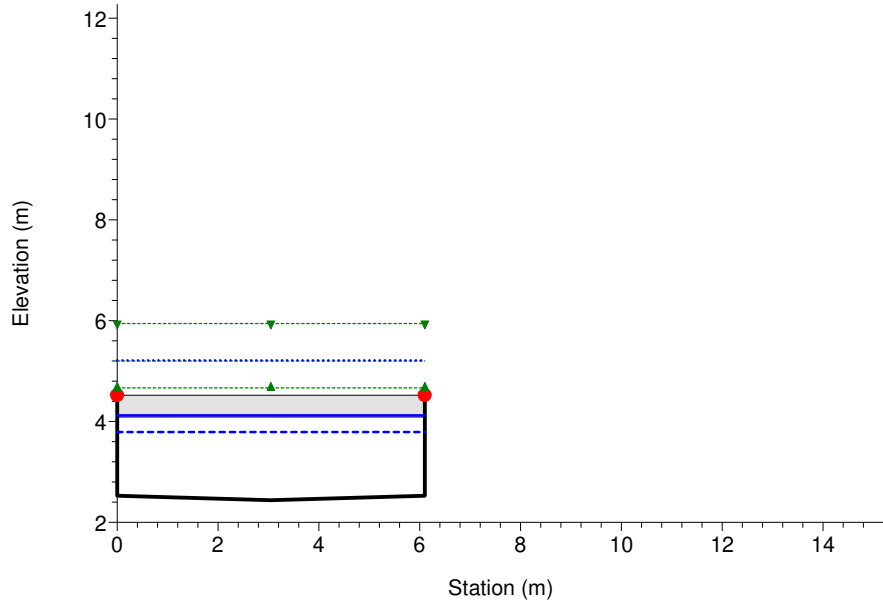
Cantarana
RS = 9.2 Sez. 9.2



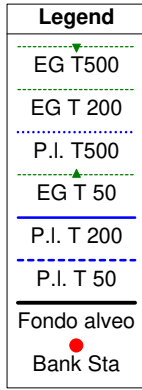
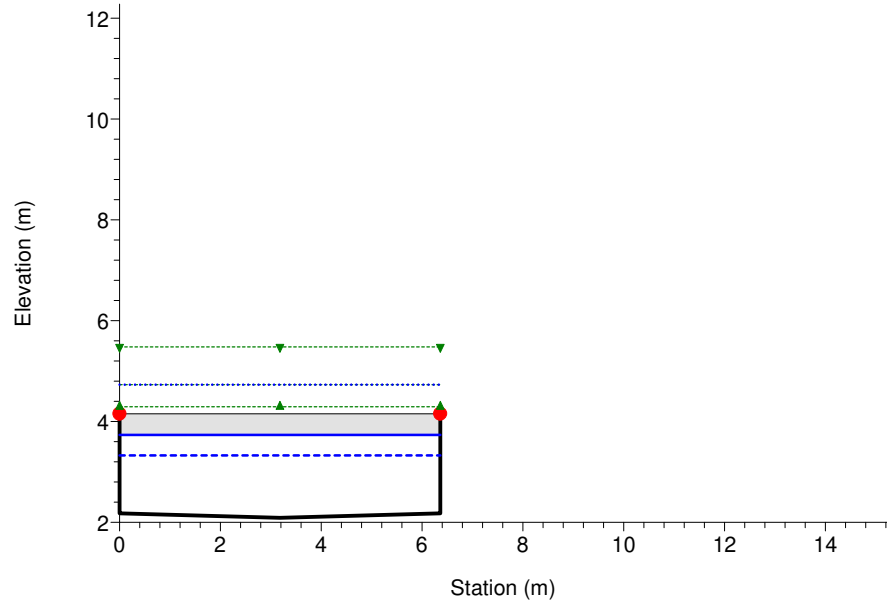
Cantarana
RS = 9.1 Sez. 9.1



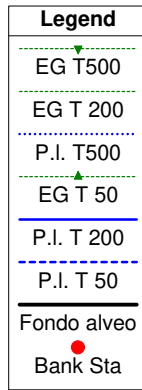
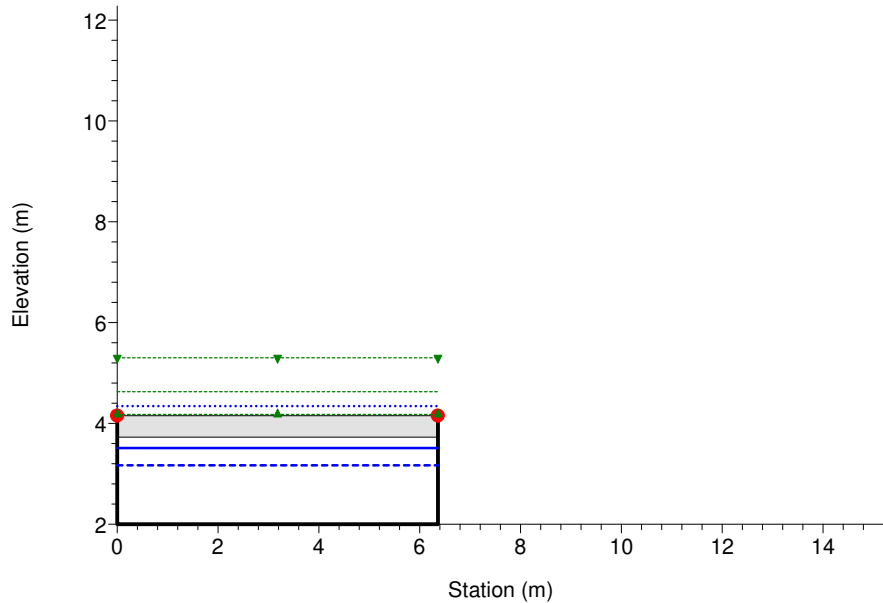
Cantarana
RS = 9 Sez. 9



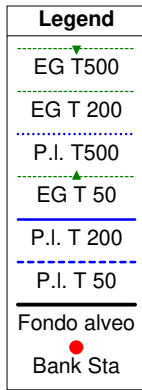
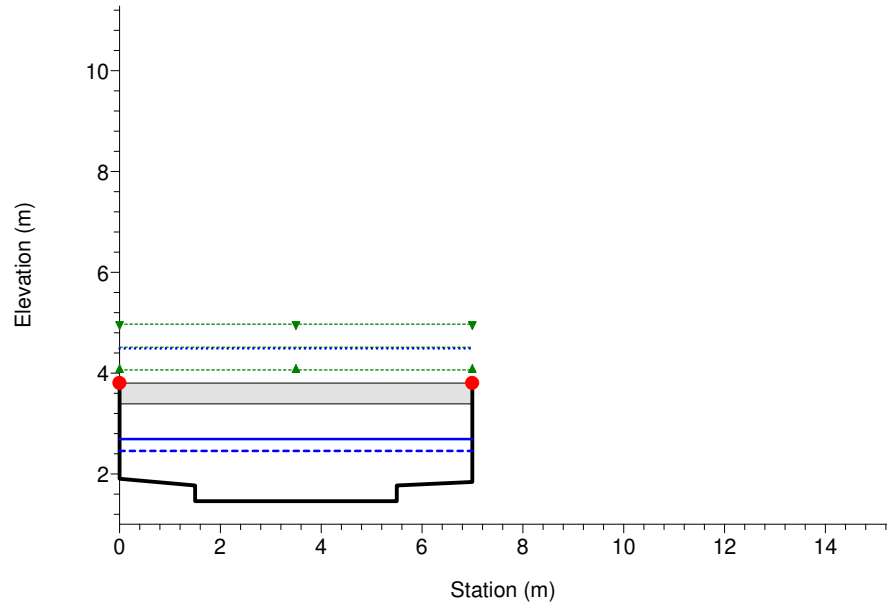
Cantarana
RS = 8 Sez. 8



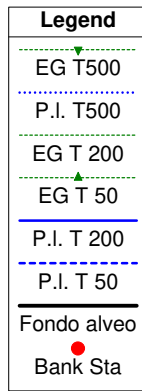
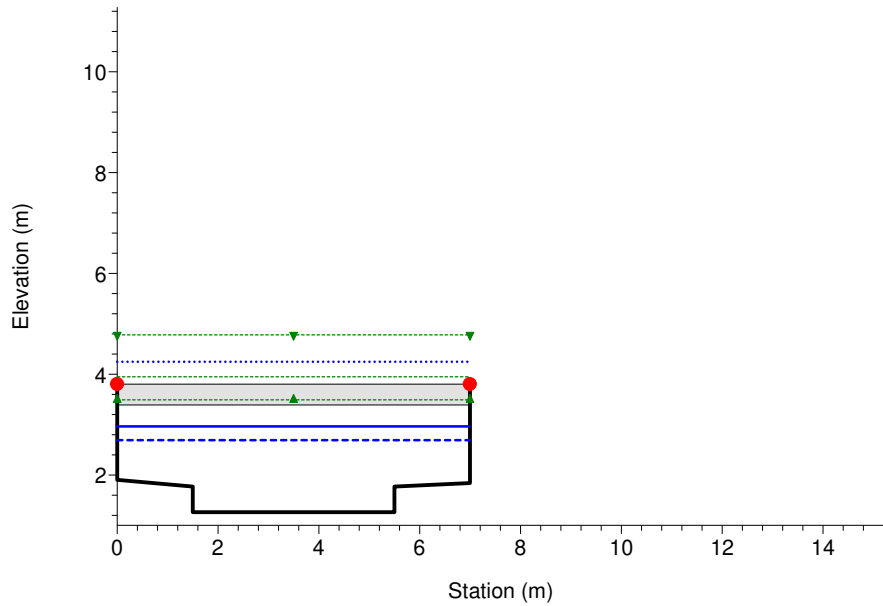
Cantarana
RS = 7.2 Sez. 7.2



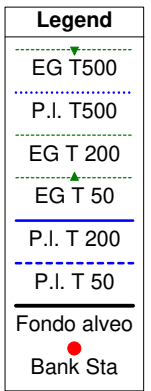
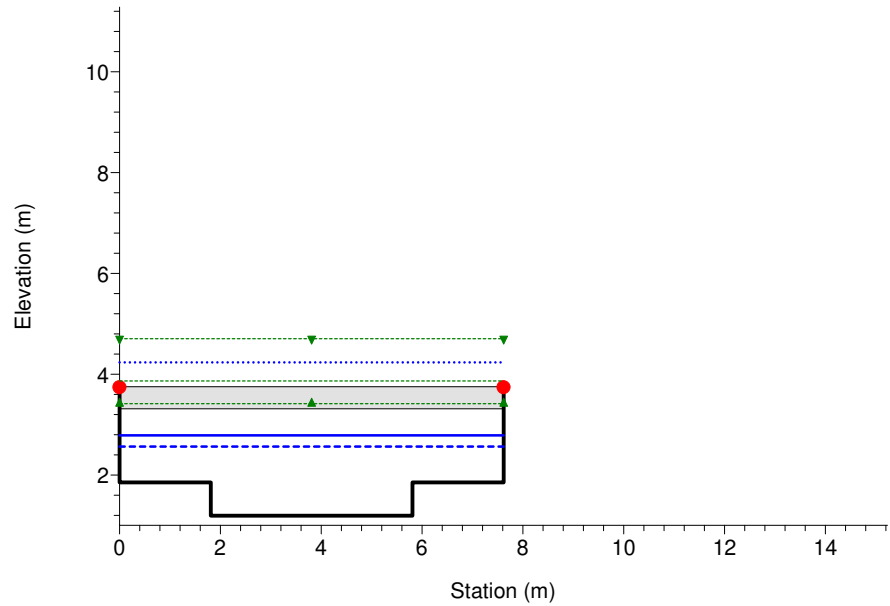
Cantarana
RS = 7.1 Sez. 7.1



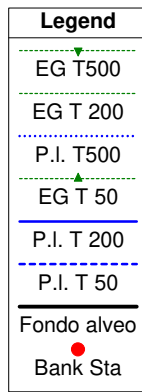
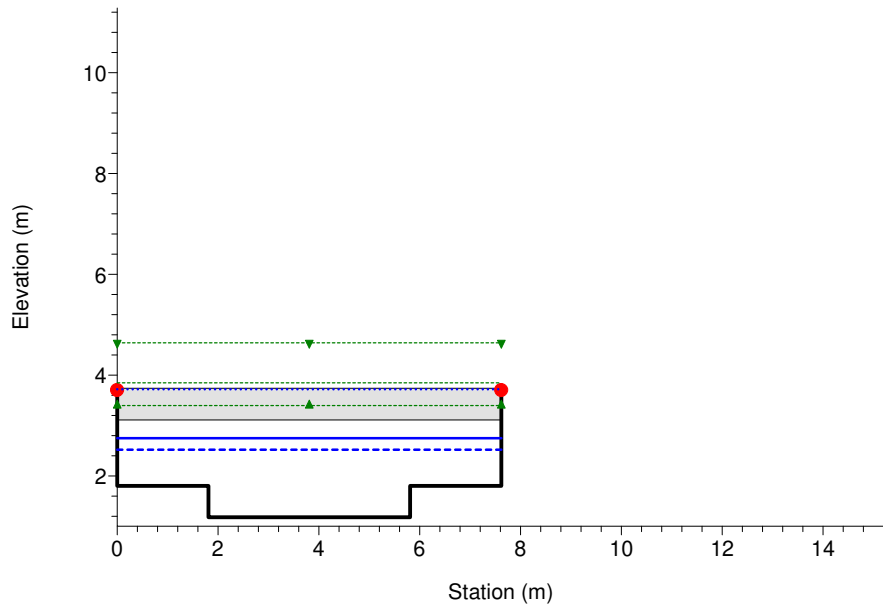
Cantarana
RS = 7 Sez. 7



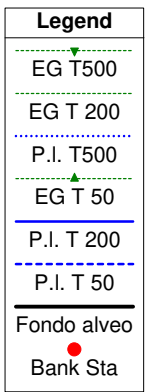
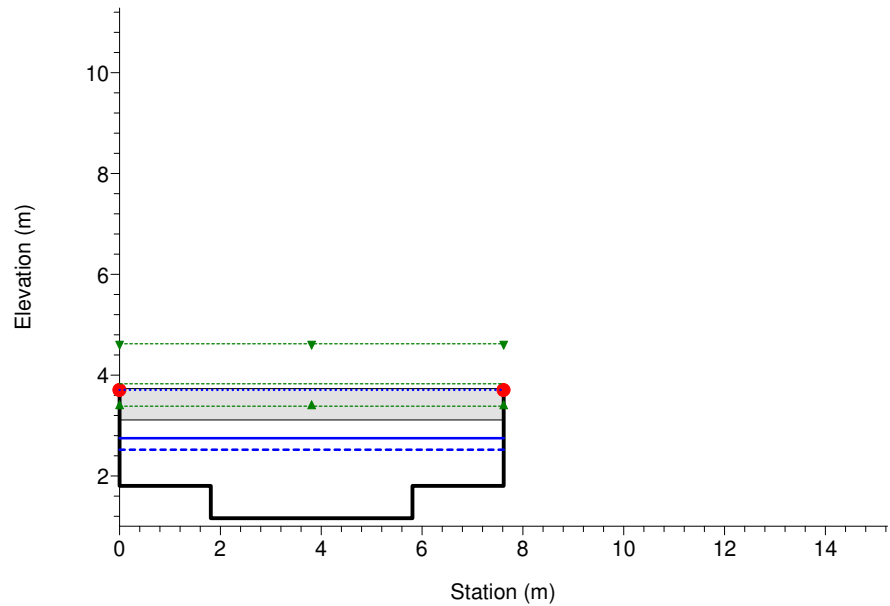
Cantarana
RS = 6.2 Sez. 6.2



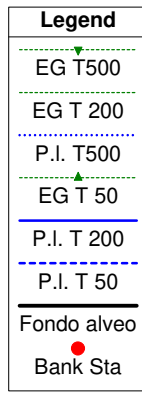
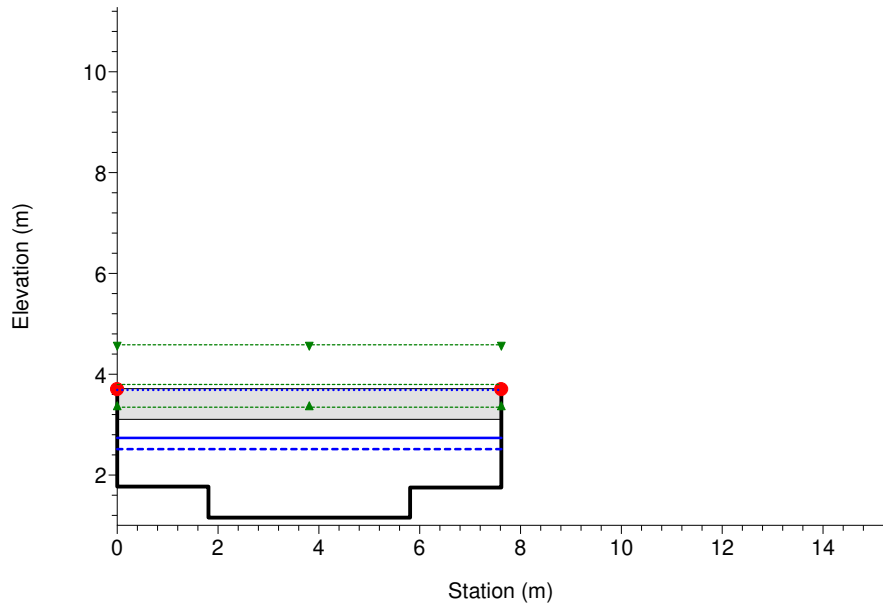
Cantarana
RS = 6.1 Sez. 6.1



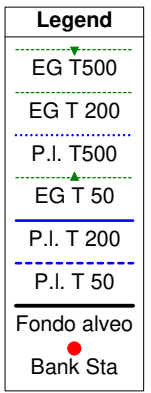
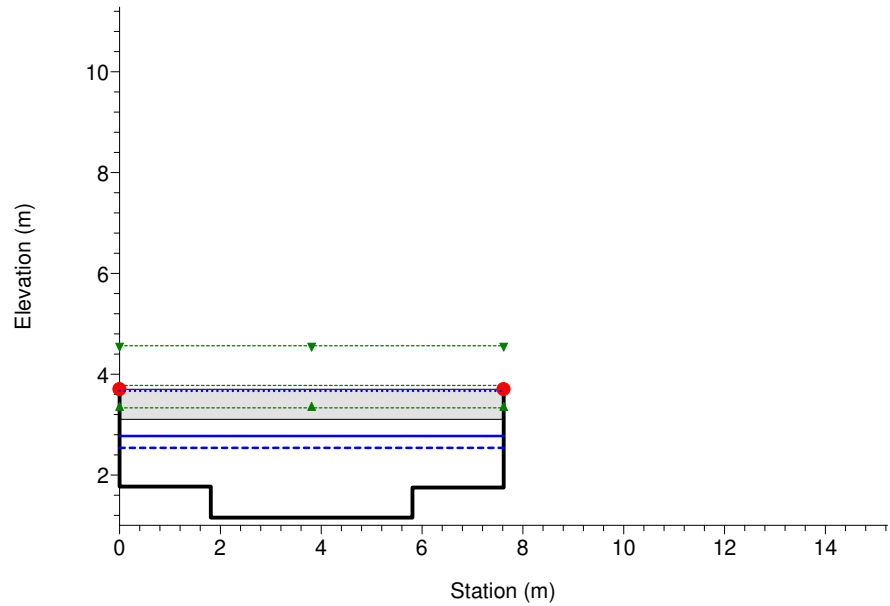
Cantarana
RS = 6.0 Sez. 6.0



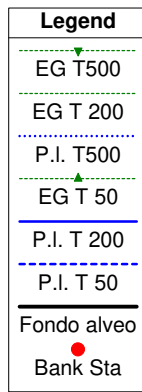
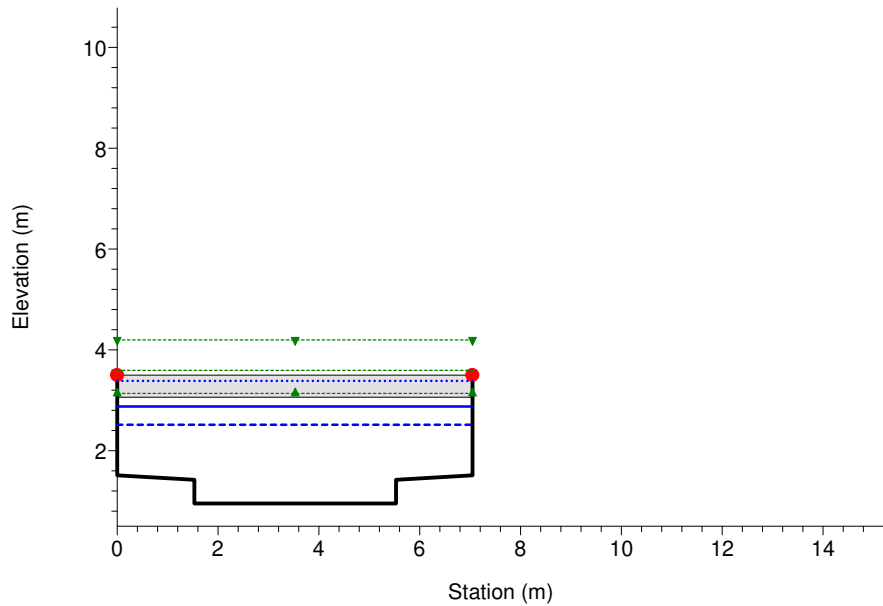
Cantarana
RS = 5.9 Sez. 5.9



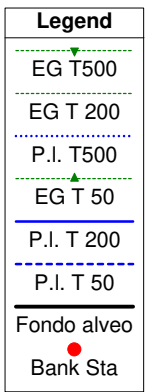
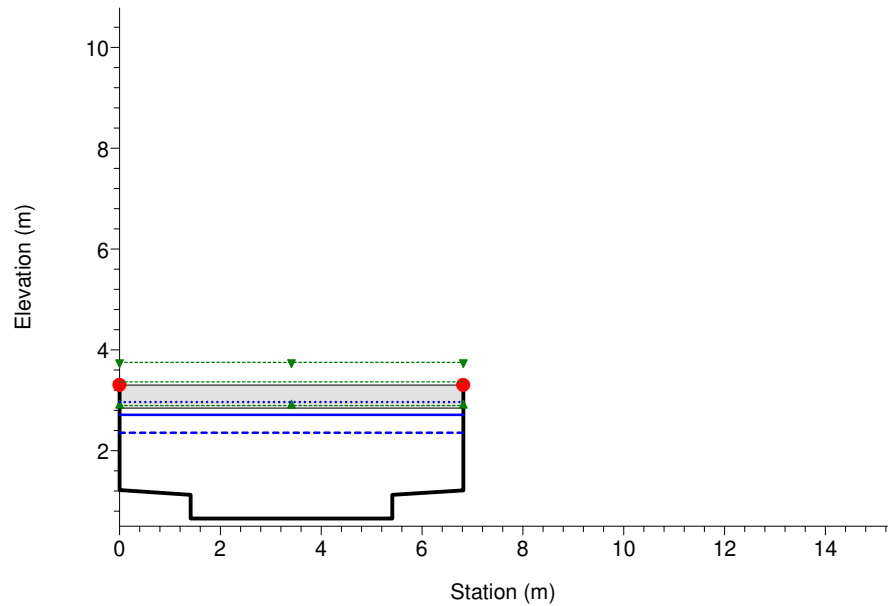
Cantarana
RS = 5.8 Sez. 5.8



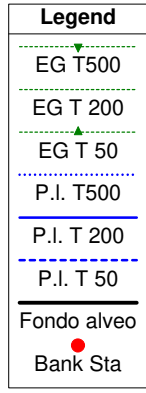
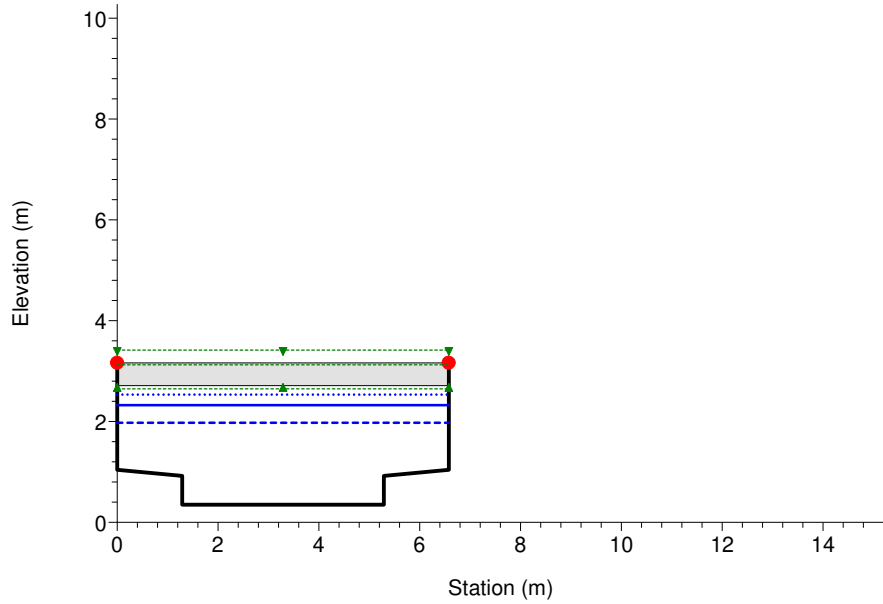
Cantarana
RS = 5 Sez. 5



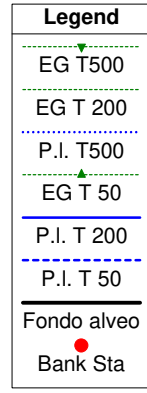
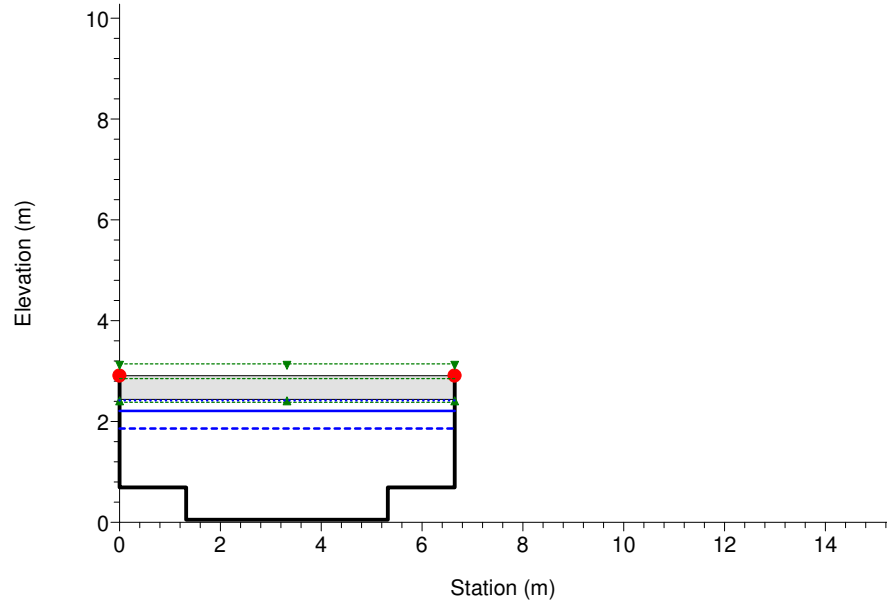
Cantarana
RS = 4 Sez. 4



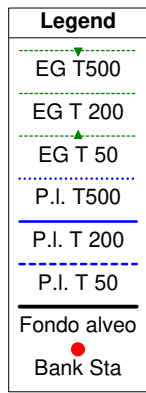
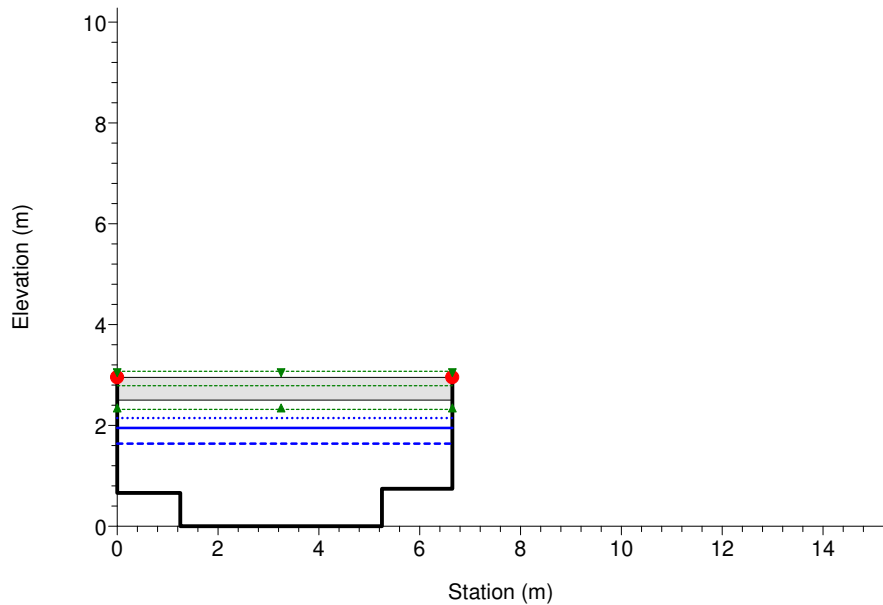
Cantarana
RS = 3 Sez. 3



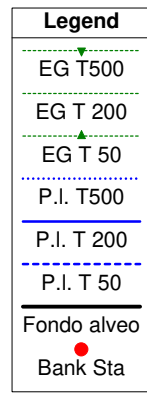
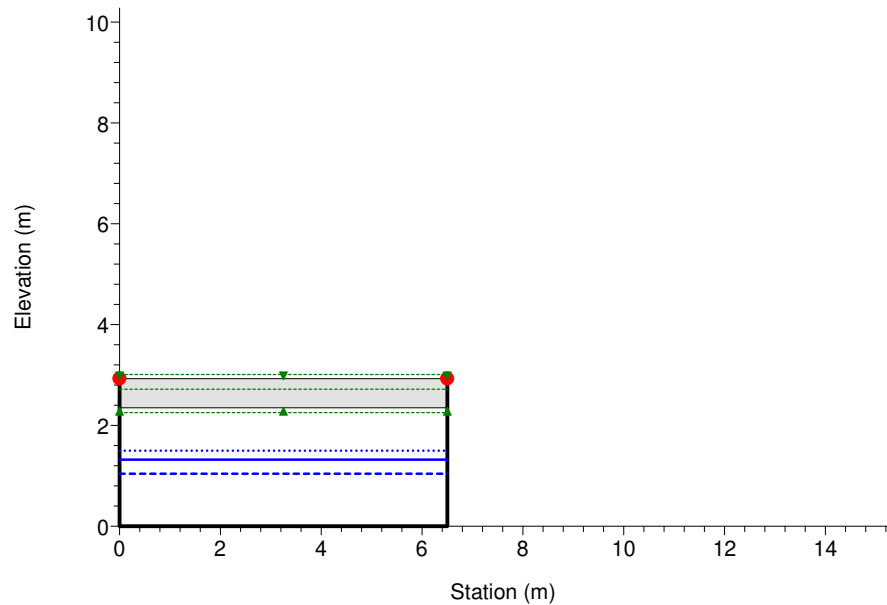
Cantarana
RS = 2 Sez. 2



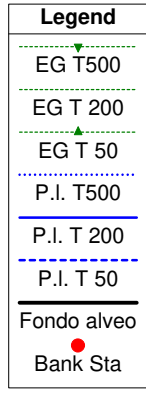
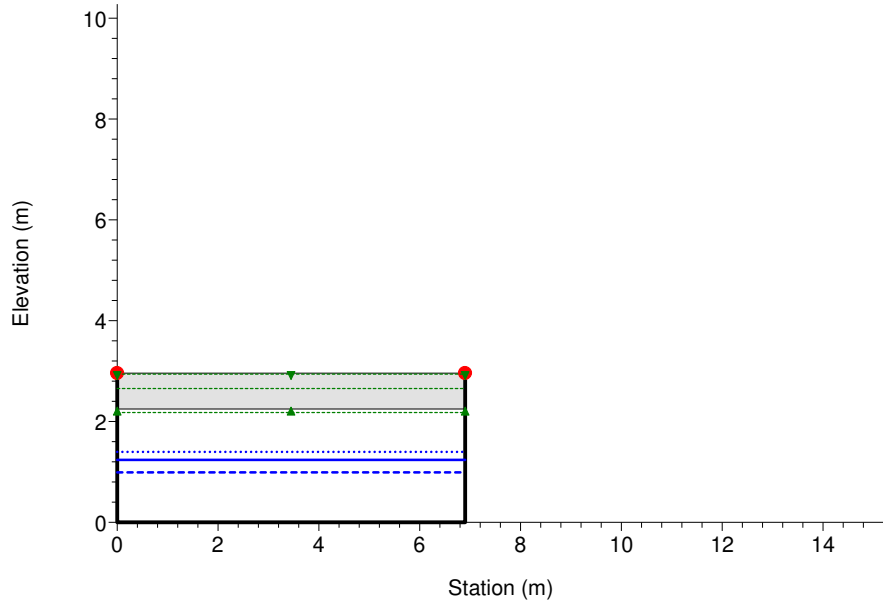
Cantarana
RS = 1 Sez. 1



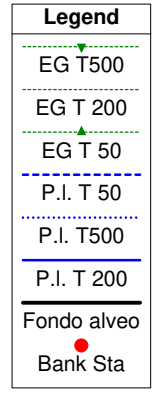
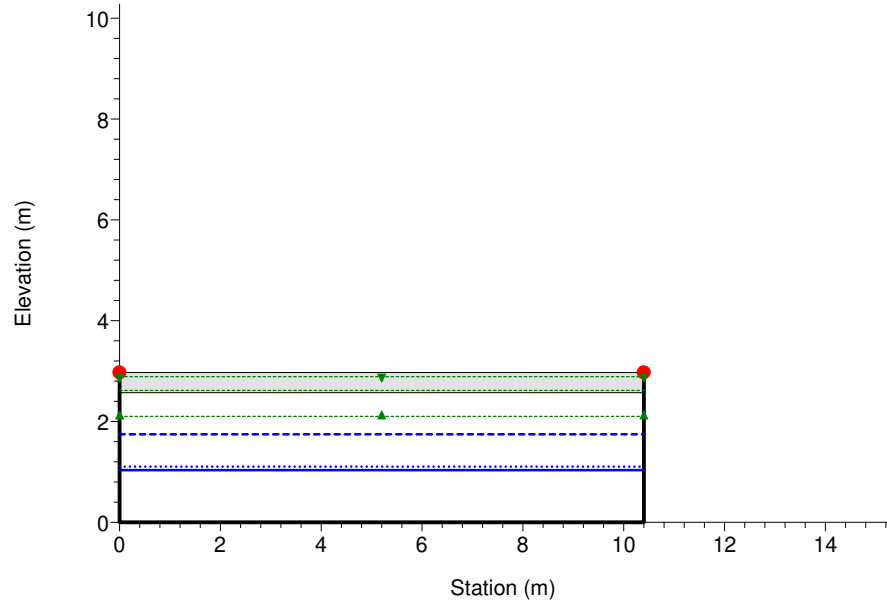
Cantarana
RS = 0.4 Sez. 0.4



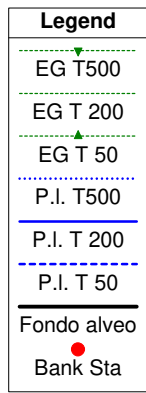
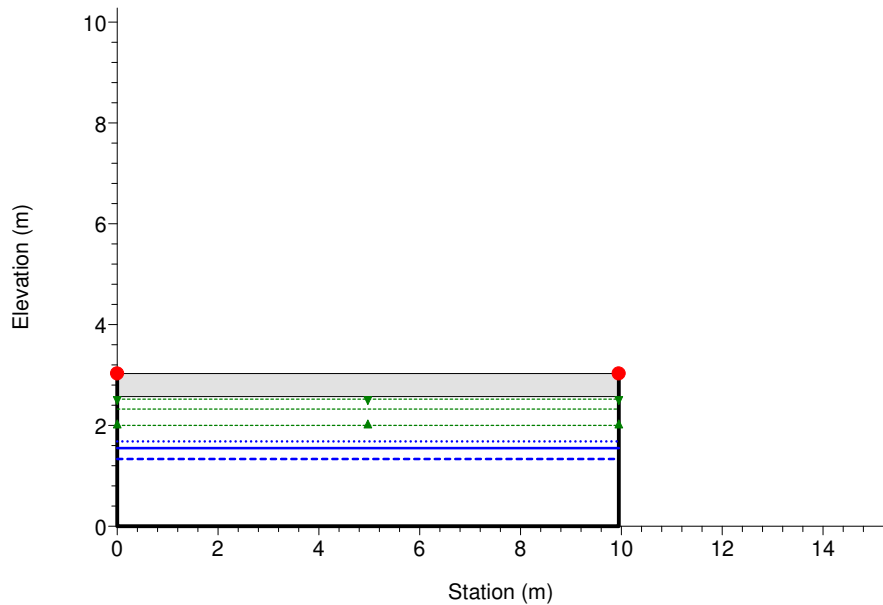
Cantarana
RS = 0.3 Sez. 0.3



Cantarana
RS = 0.2 Sez. 0.2

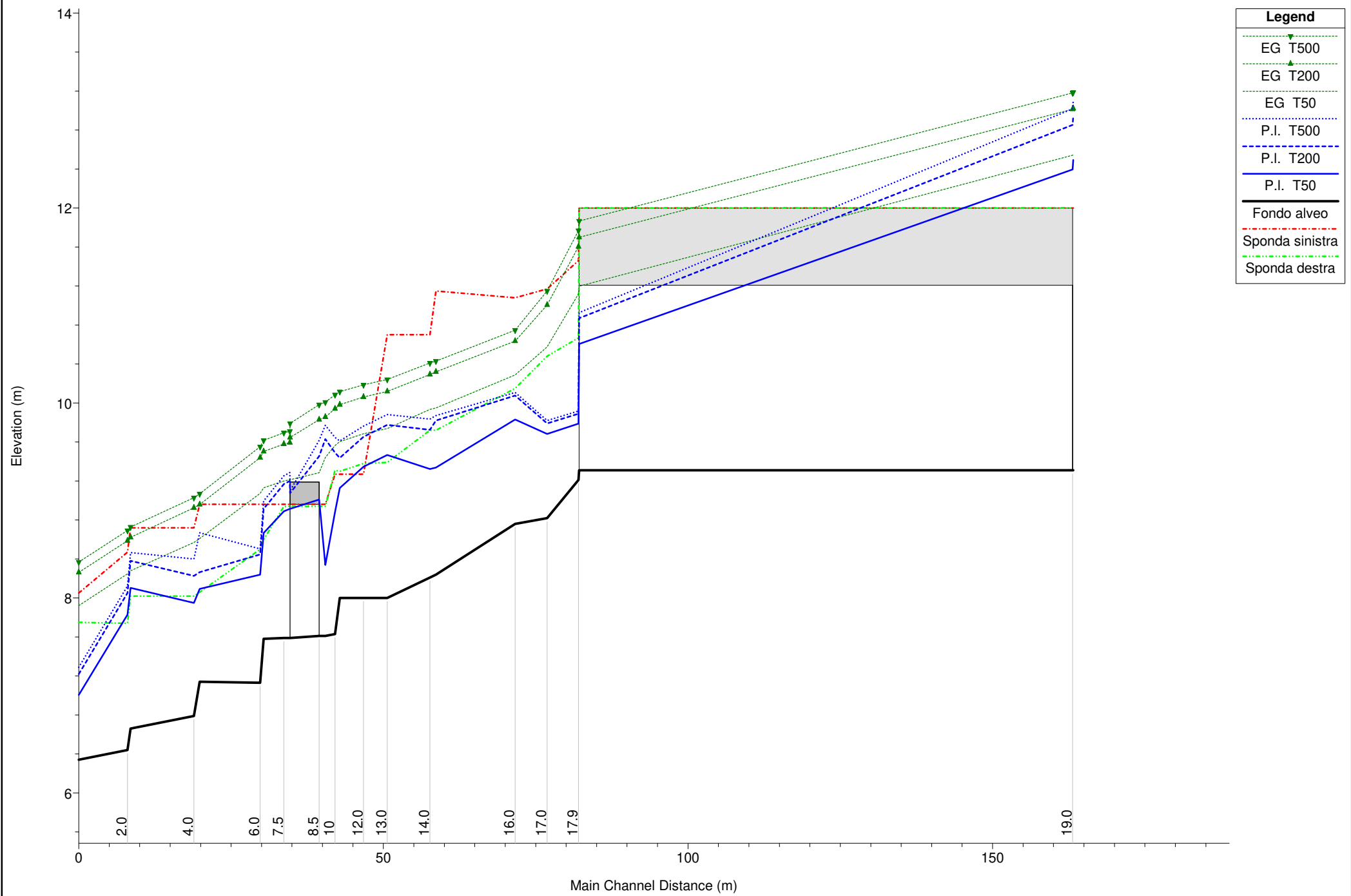


Cantarana
RS = 0.1 Sez. 0.1



1 cm Horiz. = 1.5 m 1 cm Vert. = 1.5 m

Acquadolce



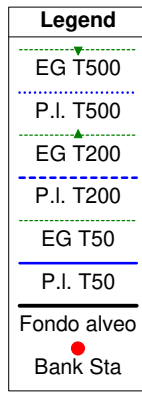
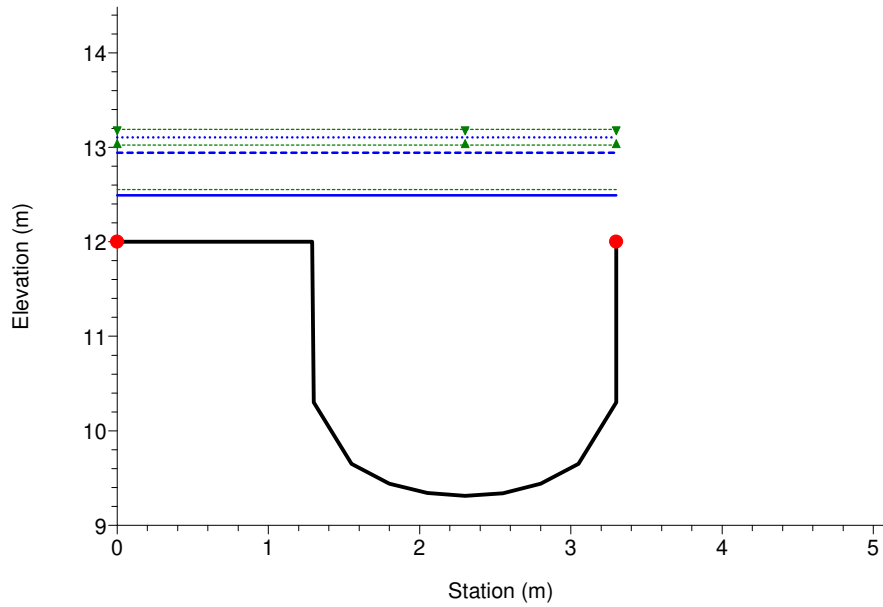
1 cm Horiz. = 8 m 1 cm Vert. = 0.5 m

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	LOB Elev (m)	ROB Elev (m)	Min Ch El (m)	W.S. Elev (m)	E.G. Elev (m)	Max Chl Dpth (m)	Hydr Depth (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Acquadolce	19.1	T50	7.00	158.42	12.00	12.00	9.31	12.49	12.55	3.18	1.97	1.07	6.52	3.30	0.24
Acquadolce	19.1	T200	10.00	163.23	12.00	12.00	9.31	12.94	13.02	3.63	2.42	1.25	8.00	3.30	0.26
Acquadolce	19.1	T500	11.00	163.23	12.00	12.00	9.31	13.10	13.19	3.79	2.59	1.29	8.53	3.30	0.26
Acquadolce	19.0	T50	7.00	158.32	10.30	10.30	9.31	12.40	12.54	3.09	1.25	1.69	4.13	3.30	0.31
Acquadolce	19.0	T200	10.00	163.13	10.30	10.30	9.31	12.85	13.01	3.54	1.71	1.77	5.64	3.30	0.30
Acquadolce	19.0	T500	11.00	163.13	10.30	10.30	9.31	13.02	13.18	3.71	1.88	1.78	6.19	3.30	0.29
Acquadolce	18.0	T50	7.00	77.32	10.30	10.30	9.31	10.61	11.20	1.30	1.19	3.41	2.05	1.73	0.96
Acquadolce	18.0	T200	10.00	82.13	10.30	10.30	9.31	10.87	11.70	1.56	1.66	4.03	2.48	1.50	1.03
Acquadolce	18.0	T500	11.00	82.13	10.30	10.30	9.31	10.93	11.87	1.62	1.88	4.29	2.56	1.36	1.08
Acquadolce	17.9	T50	7.00	77.22	11.46	10.67	9.21	9.79	11.12	0.58	0.40	5.11	1.37	3.47	2.59
Acquadolce	17.9	T200	10.00	82.03	11.46	10.67	9.21	9.89	11.60	0.68	0.47	5.80	1.72	3.63	2.69
Acquadolce	17.9	T500	11.00	82.03	11.46	10.67	9.21	9.92	11.77	0.71	0.50	6.03	1.82	3.66	2.72
Acquadolce	17.0	T50	7.00	72.07	11.17	10.48	8.82	9.68	10.58	0.86	0.48	4.18	1.67	3.47	1.92
Acquadolce	17.0	T200	10.00	76.88	11.17	10.48	8.82	9.79	11.01	0.97	0.58	4.88	2.05	3.51	2.04
Acquadolce	17.0	T500	11.00	76.88	11.17	10.48	8.82	9.82	11.15	1.00	0.61	5.11	2.15	3.52	2.08
Acquadolce	16.0	T50	7.00	66.82	11.08	10.15	8.76	9.83	10.29	1.07	0.86	3.00	2.34	2.72	1.03
Acquadolce	16.0	T200	10.00	71.63	11.08	10.15	8.76	10.08	10.64	1.32	1.07	3.31	3.02	2.81	1.02
Acquadolce	16.0	T500	11.00	71.63	11.08	10.15	8.76	10.11	10.75	1.35	1.10	3.54	3.11	2.82	1.08
Acquadolce	15.0	T50	7.00	53.82	11.15	9.72	8.24	9.34	9.95	1.10	0.86	3.47	2.02	2.35	1.20
Acquadolce	15.0	T200	10.00	58.63	11.15	9.72	8.24	9.82	10.32	1.58	1.28	3.13	3.20	2.49	0.88
Acquadolce	15.0	T500	11.00	58.63	11.15	9.72	8.24	9.87	10.43	1.63	1.34	3.31	3.33	2.49	0.91
Acquadolce	14.0	T50	7.00	52.83	10.70	9.72	8.21	9.32	9.93	1.11	0.86	3.46	2.02	2.35	1.19
Acquadolce	14.0	T200	10.00	57.64	10.70	9.72	8.21	9.72	10.29	1.51	1.20	3.34	3.00	2.50	0.97
Acquadolce	14.0	T500	11.00	57.64	10.70	9.72	8.21	9.83	10.41	1.62	1.31	3.36	3.27	2.50	0.94
Acquadolce	13.0	T50	7.00	45.83	10.70	9.39	8.00	9.47	9.74	1.47	1.14	2.31	3.03	2.67	0.69
Acquadolce	13.0	T200	10.00	50.64	10.70	9.39	8.00	9.78	10.12	1.78	1.44	2.59	3.86	2.67	0.69
Acquadolce	13.0	T500	11.00	50.64	10.70	9.39	8.00	9.88	10.24	1.88	1.55	2.66	4.14	2.67	0.68
Acquadolce	12.0	T50	7.00	41.93	9.27	9.38	8.00	9.35	9.68	1.35	1.04	2.58	2.72	2.61	0.81
Acquadolce	12.0	T200	10.00	46.74	9.27	9.38	8.00	9.65	10.06	1.65	1.33	2.84	3.53	2.65	0.79
Acquadolce	12.0	T500	11.00	46.74	9.27	9.38	8.00	9.76	10.19	1.76	1.44	2.88	3.82	2.65	0.77
Acquadolce	11.0	T50	7.00	38.03	9.27	9.30	8.00	9.13	9.61	1.13	0.95	3.06	2.29	2.42	1.00
Acquadolce	11.0	T200	10.00	42.84	9.27	9.30	8.00	9.44	9.98	1.44	1.22	3.27	3.05	2.51	0.95
Acquadolce	11.0	T500	11.00	42.84	9.27	9.30	8.00	9.61	10.12	1.61	1.39	3.15	3.49	2.51	0.85
Acquadolce	10	T50	7.00	37.25	9.27	9.31	7.63	8.88	9.56	1.25	0.85	3.66	1.91	2.25	1.27
Acquadolce	10	T200	10.00	42.06	9.27	9.31	7.63	9.49	9.94	1.86	1.37	2.97	3.36	2.46	0.81
Acquadolce	10	T500	11.00	42.06	9.27	9.31	7.63	9.65	10.09	2.02	1.52	2.94	3.75	2.46	0.76

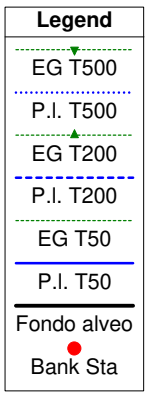
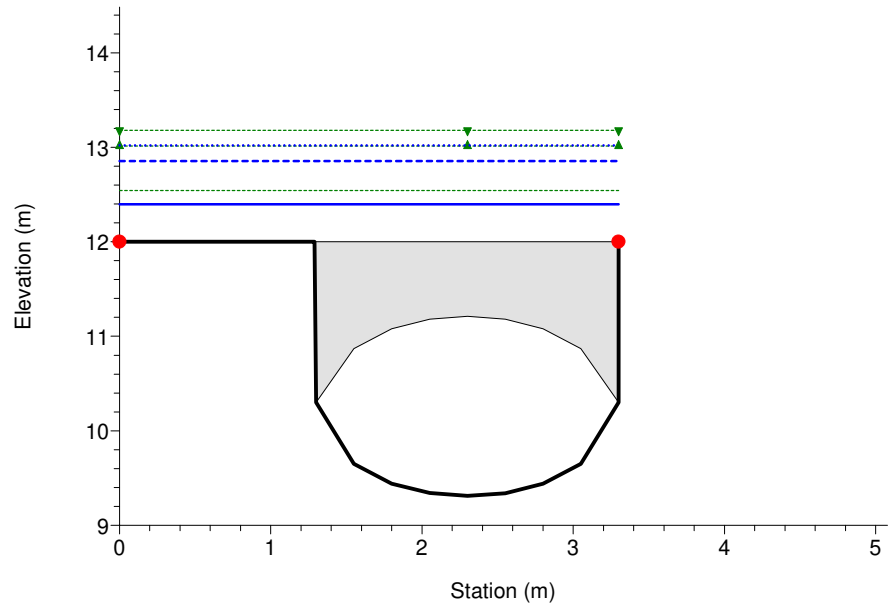
HEC-RAS Plan: 0.033 River: Acquadolce Reach: Acquadolce (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	LOB Elev (m)	ROB Elev (m)	Min Ch El (m)	W.S. Elev (m)	E.G. Elev (m)	Max Chl Dpth (m)	Hydr Depth (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Acquadolce	9.0	T50	7.00	35.65	8.96	8.94	7.61	8.34	9.44	0.73	0.63	4.65	1.51	2.40	1.88
Acquadolce	9.0	T200	10.00	40.46	8.96	8.94	7.61	9.63	9.86	2.02	1.87	2.11	4.75	2.54	0.49
Acquadolce	9.0	T500	11.00	40.46	8.96	8.94	7.61	9.77	10.01	2.16	2.01	2.16	5.10	2.54	0.49
Acquadolce	8.5	Bridge													
Acquadolce	8.0	T50	7.00	34.66	8.96	8.94	7.59	8.92	9.21	1.32	1.18	2.42	2.90	2.46	0.71
Acquadolce	8.0	T200	10.00	34.66	8.96	8.94	7.59	9.20	9.59	1.61	1.46	2.78	3.60	2.47	0.73
Acquadolce	8.0	T500	11.00	34.66	8.96	8.94	7.59	9.29	9.71	1.70	1.55	2.88	3.82	2.47	0.74
Acquadolce	7.5	T50	7.00	33.66	8.96	8.94	7.59	8.89	9.20	1.30	1.15	2.47	2.84	2.46	0.73
Acquadolce	7.5	T200	10.00	33.66	8.96	8.94	7.59	9.17	9.58	1.58	1.43	2.84	3.52	2.47	0.76
Acquadolce	7.5	T500	11.00	33.66	8.96	8.94	7.59	9.25	9.70	1.66	1.51	2.95	3.73	2.47	0.77
Acquadolce	7.0	T50	7.00	30.36	8.96	8.60	7.58	8.67	9.13	1.09	0.92	3.02	2.32	2.53	1.01
Acquadolce	7.0	T200	10.00	30.36	8.96	8.60	7.58	8.91	9.50	1.33	1.16	3.40	2.94	2.53	1.01
Acquadolce	7.0	T500	11.00	30.36	8.96	8.60	7.58	9.00	9.62	1.42	1.25	3.49	3.15	2.53	1.00
Acquadolce	6.0	T50	7.00	29.76	8.96	8.50	7.13	8.24	9.07	1.11	0.70	4.05	1.73	2.49	1.55
Acquadolce	6.0	T200	10.00	29.76	8.96	8.50	7.13	8.45	9.44	1.32	0.83	4.41	2.27	2.74	1.55
Acquadolce	6.0	T500	11.00	29.76	8.96	8.50	7.13	8.50	9.55	1.37	0.85	4.53	2.43	2.84	1.57
Acquadolce	5.0	T50	7.00	19.86	8.96	8.06	7.14	8.09	8.61	0.95	0.73	3.18	2.20	3.00	1.19
Acquadolce	5.0	T200	10.00	19.86	8.96	8.06	7.14	8.26	8.96	1.12	0.90	3.69	2.71	3.00	1.24
Acquadolce	5.0	T500	11.00	19.86	8.96	8.06	7.14	8.67	9.07	1.53	1.31	2.80	3.92	3.00	0.78
Acquadolce	4.0	T50	7.00	18.90	8.72	8.02	6.79	7.95	8.57	1.16	0.81	3.49	2.01	2.47	1.23
Acquadolce	4.0	T200	10.00	18.90	8.72	8.02	6.79	8.23	8.93	1.44	1.08	3.71	2.70	2.50	1.14
Acquadolce	4.0	T500	11.00	18.90	8.72	8.02	6.79	8.40	9.03	1.61	1.25	3.51	3.13	2.50	1.00
Acquadolce	3.0	T50	7.00	8.50	8.72	8.02	6.66	8.10	8.28	1.44	1.30	1.85	3.79	2.92	0.52
Acquadolce	3.0	T200	10.00	8.50	8.72	8.02	6.66	8.38	8.62	1.72	1.57	2.17	4.60	2.92	0.55
Acquadolce	3.0	T500	11.00	8.50	8.72	8.02	6.66	8.46	8.73	1.80	1.66	2.27	4.84	2.92	0.56
Acquadolce	2.0	T50	7.00	8.00	8.47	7.74	6.44	7.83	8.25	1.39	0.84	2.87	2.44	2.91	1.00
Acquadolce	2.0	T200	10.00	8.00	8.47	7.74	6.44	8.05	8.59	1.61	1.06	3.24	3.09	2.91	1.00
Acquadolce	2.0	T500	11.00	8.00	8.47	7.74	6.44	8.12	8.69	1.68	1.13	3.34	3.30	2.91	1.00
Acquadolce	1.0	T50	7.00		8.05	7.75	6.34	7.00	7.92	0.66	0.63	4.24	1.65	2.60	1.70
Acquadolce	1.0	T200	10.00		8.05	7.75	6.34	7.22	8.26	0.88	0.85	4.52	2.21	2.60	1.57
Acquadolce	1.0	T500	11.00		8.05	7.75	6.34	7.29	8.37	0.95	0.92	4.60	2.39	2.60	1.53

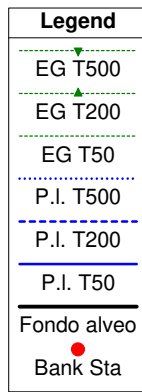
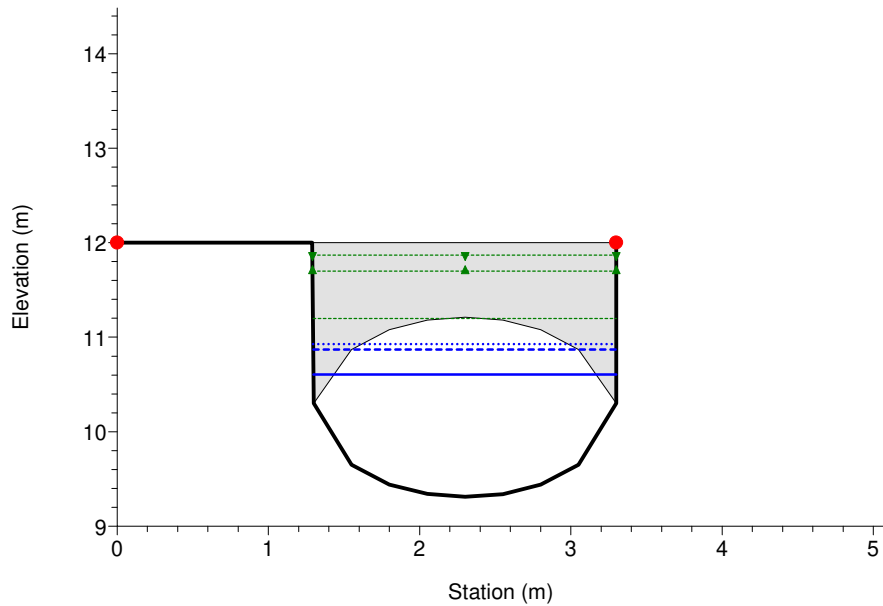
Acquadolce
RS = 19.1



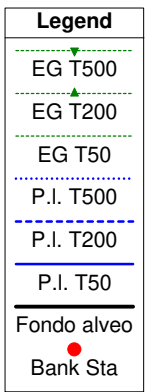
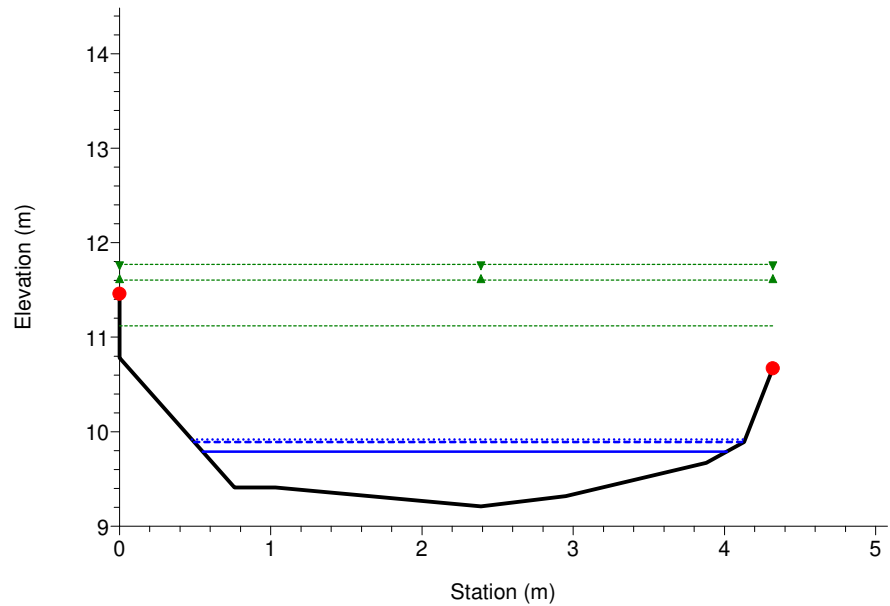
Acquadolce
RS = 19.0



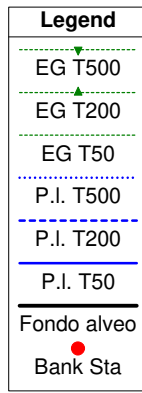
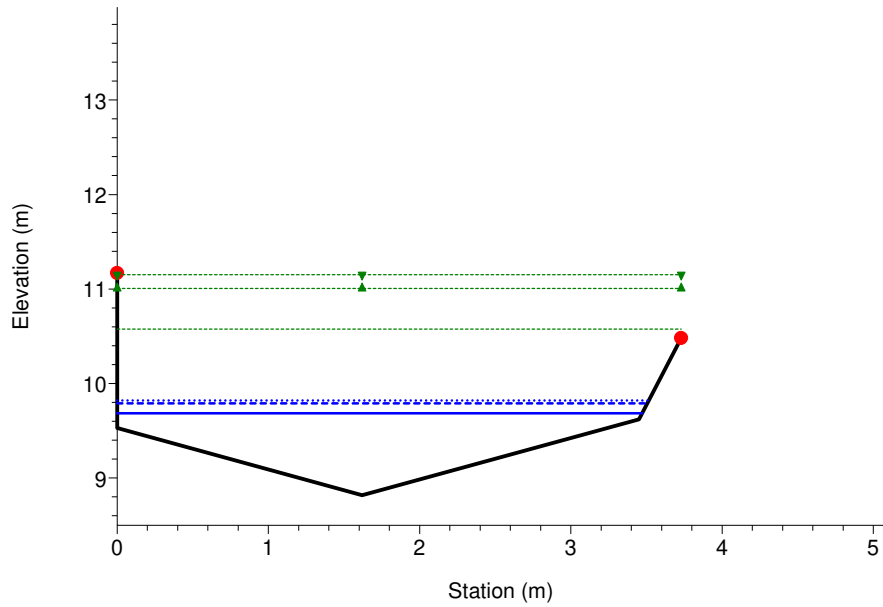
Acquadolce
RS = 18.0



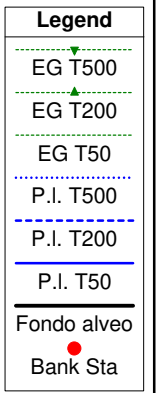
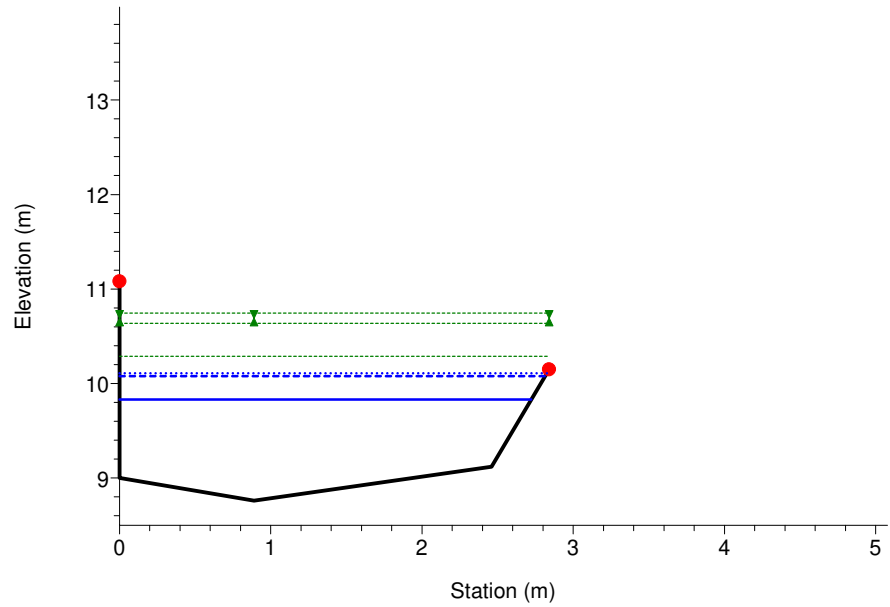
Acquadolce
RS = 17.9



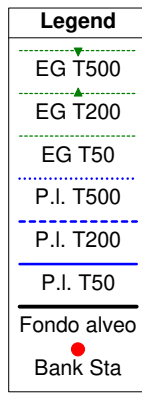
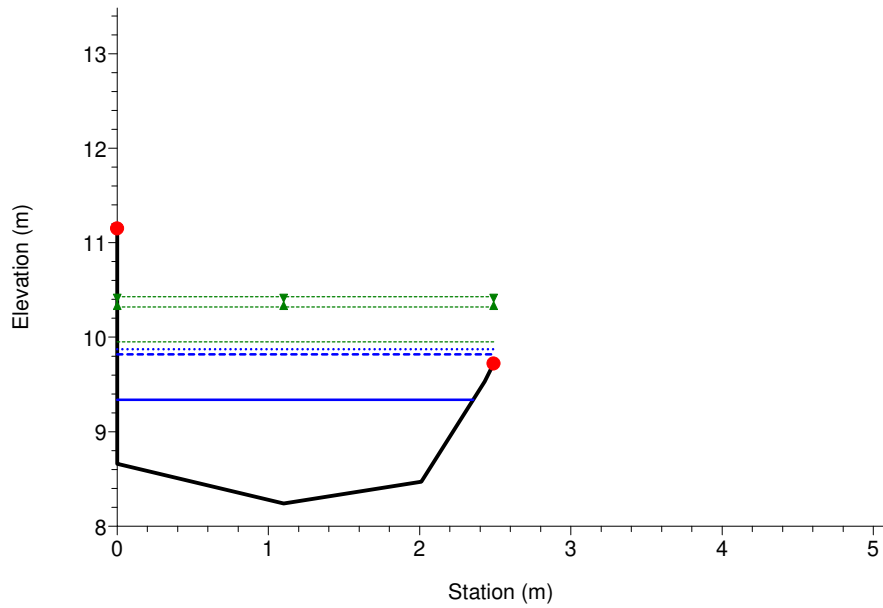
Acquadolce
RS = 17.0



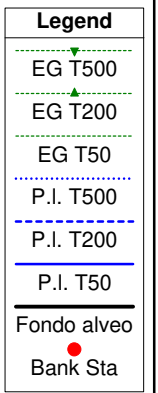
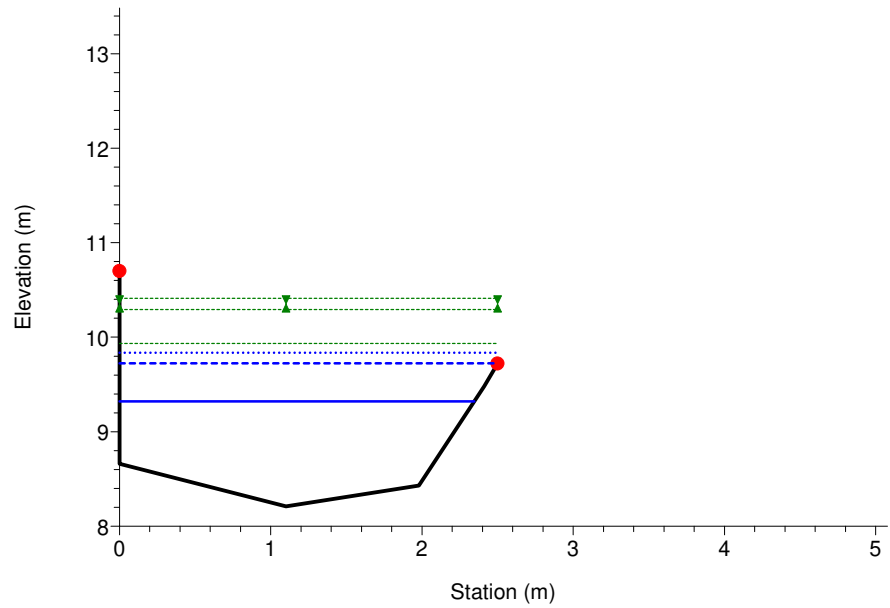
Acquadolce
RS = 16.0



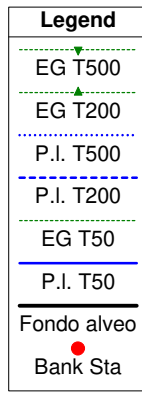
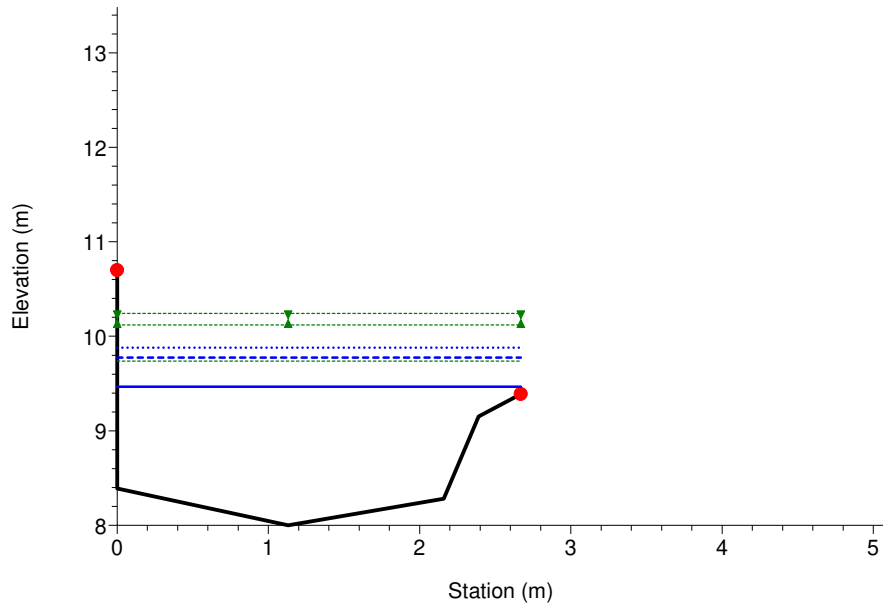
Acquadolce
RS = 15.0



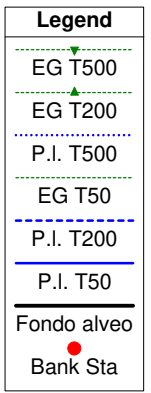
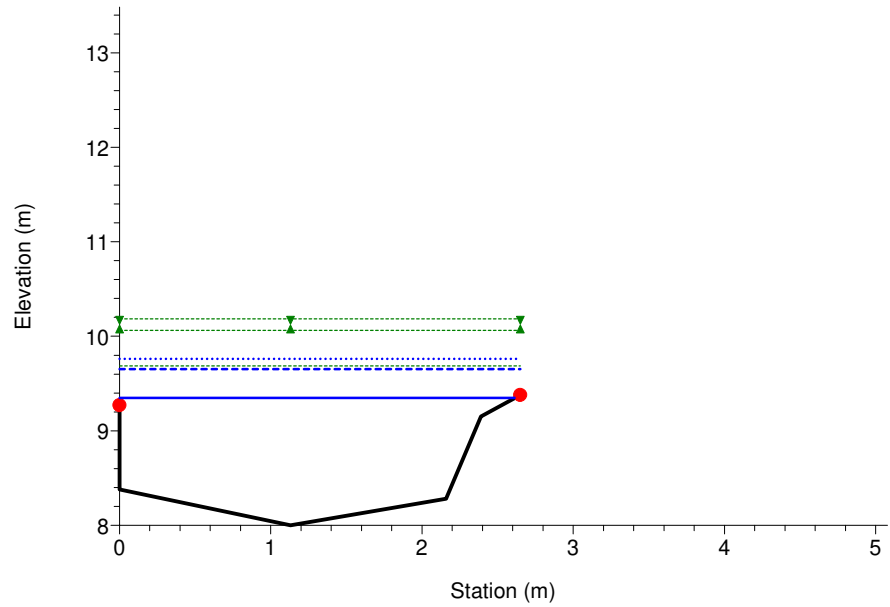
Acquadolce
RS = 14.0



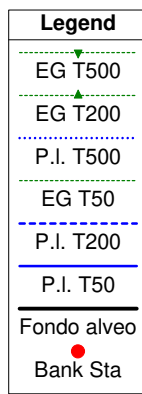
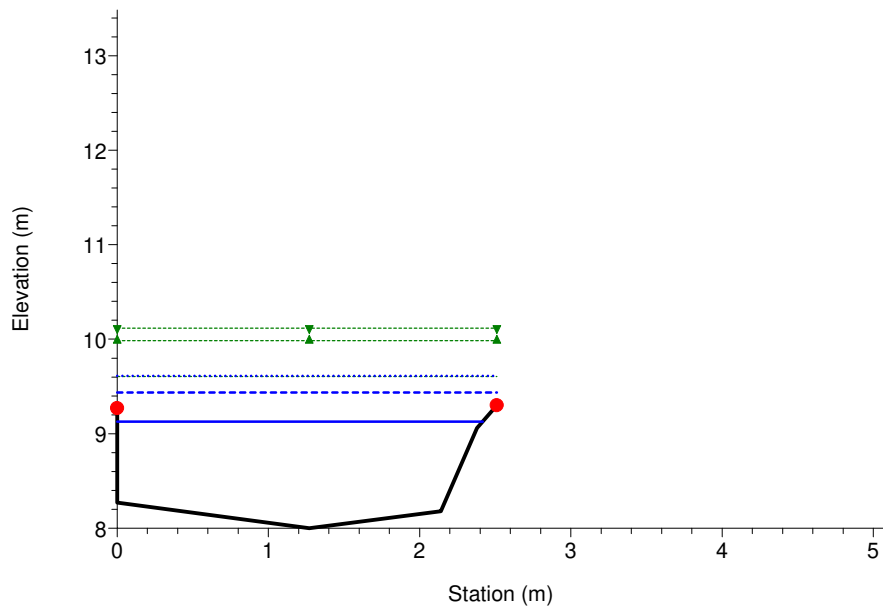
Acquadolce
RS = 13.0



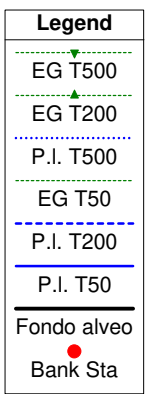
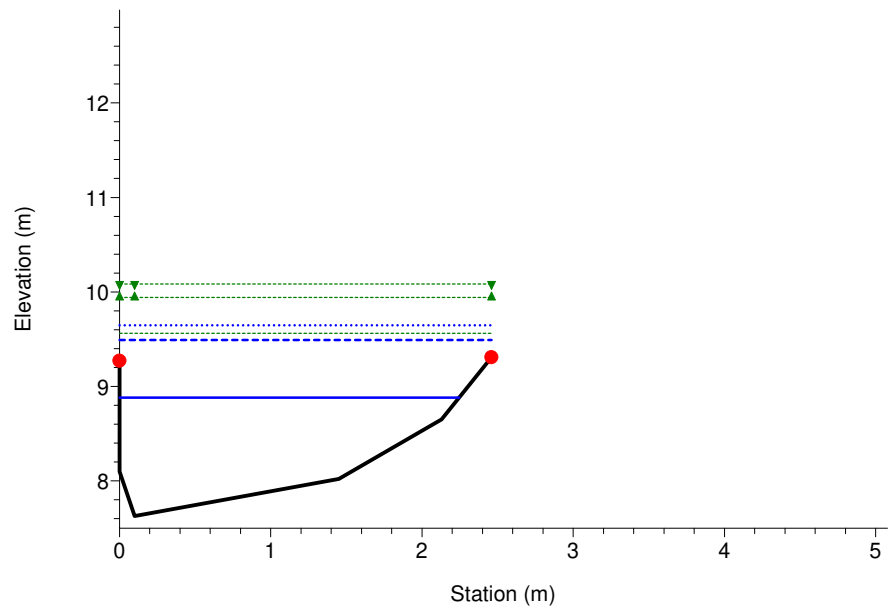
Acquadolce
RS = 12.0



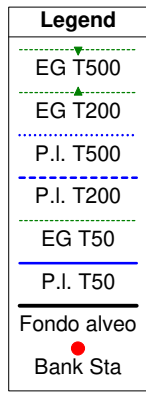
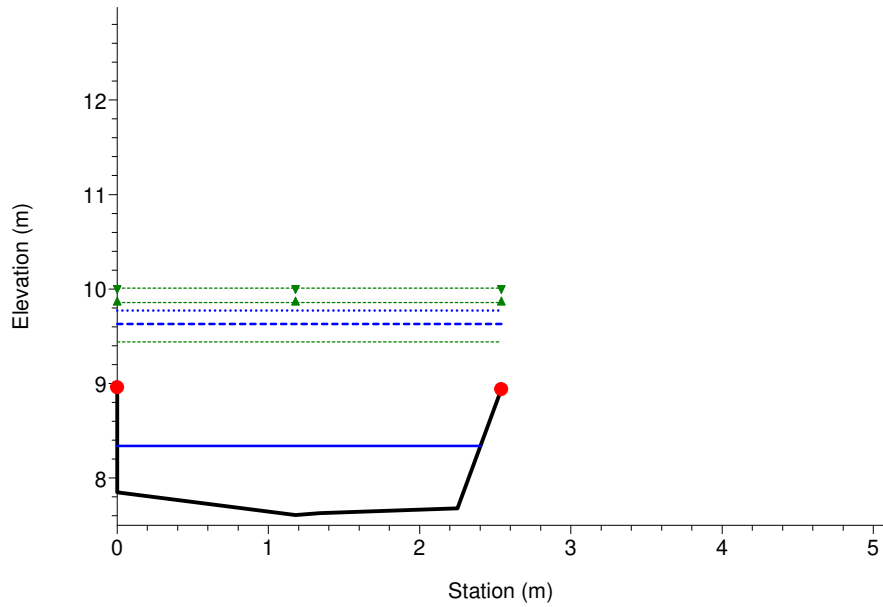
Acquadolce
RS = 11.0



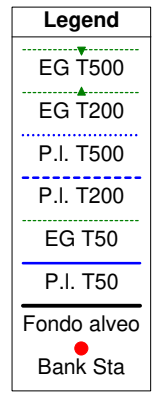
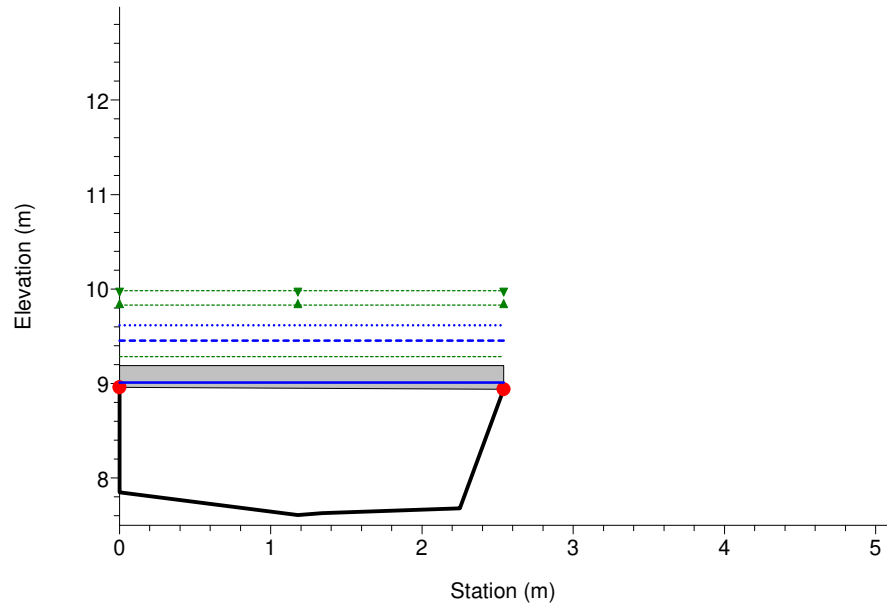
Acquadolce
RS = 10



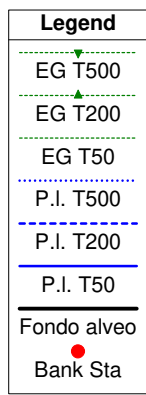
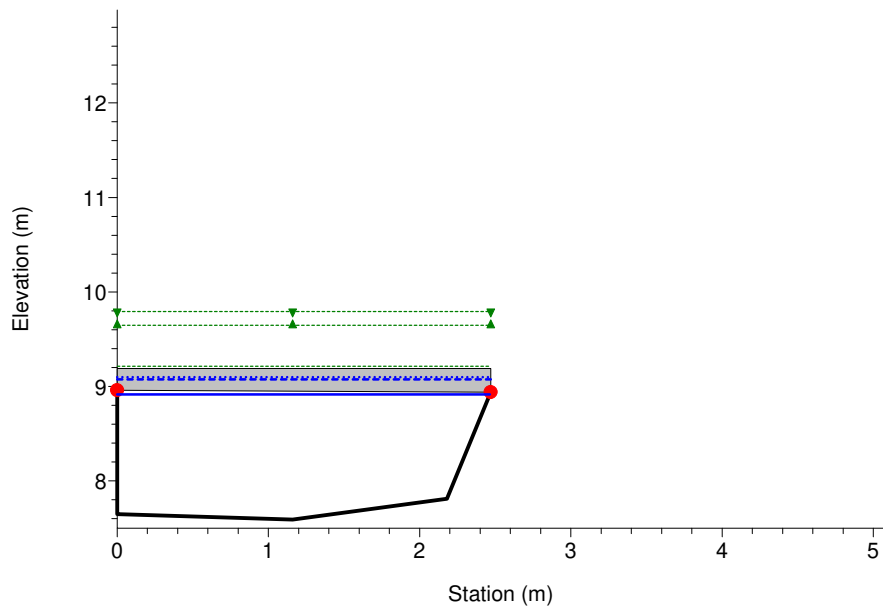
Acquadolce
RS = 9.0



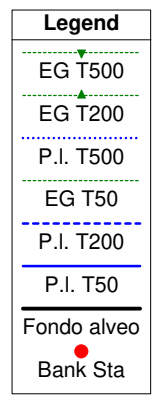
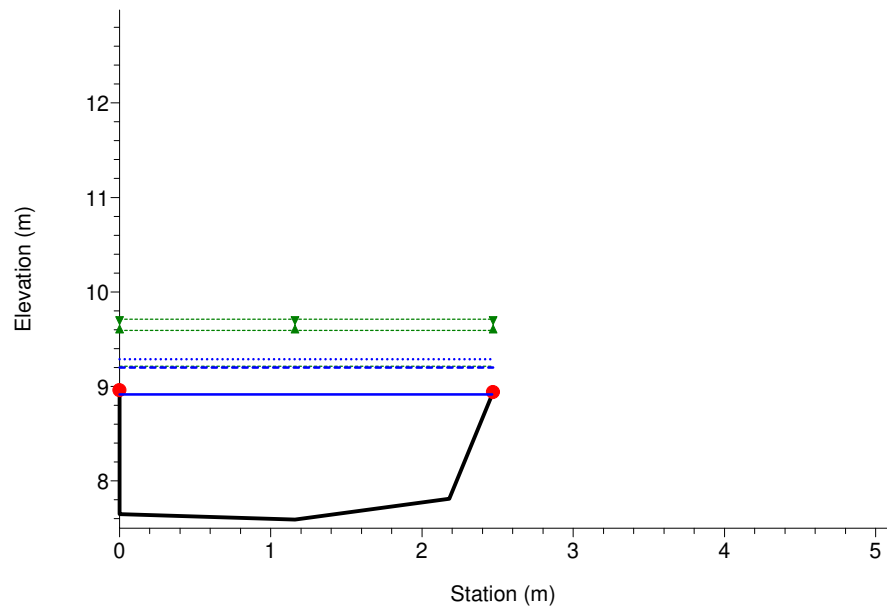
Acquadolce
RS = 8.5 BR



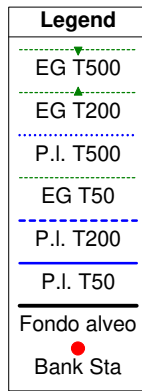
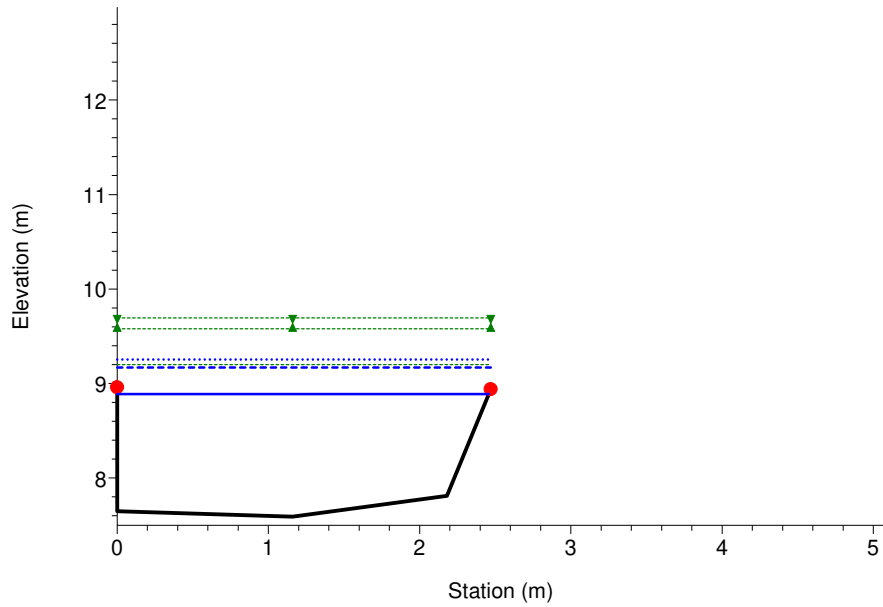
Acquadolce
RS = 8.5 BR



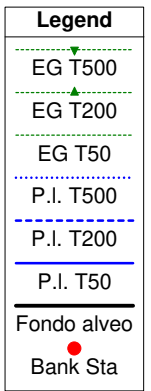
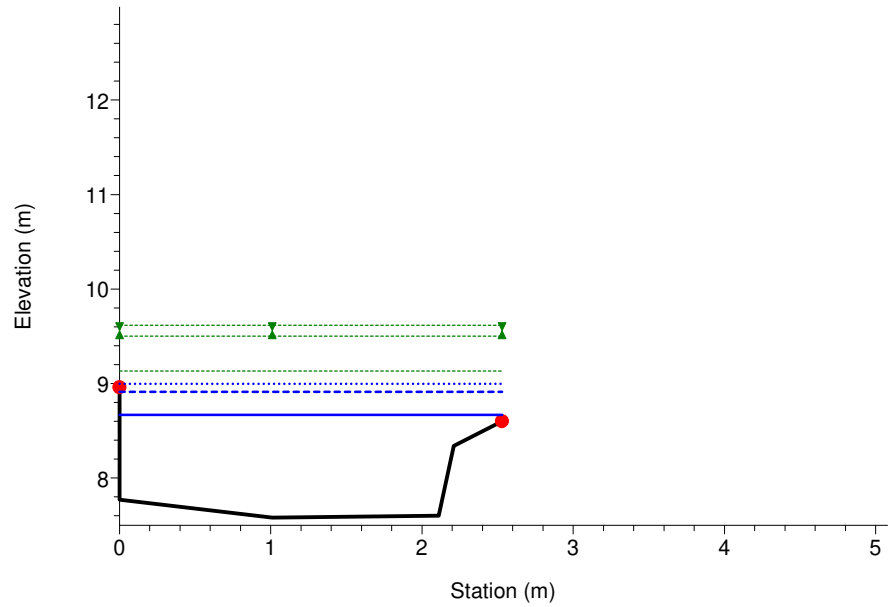
Acquadolce
RS = 8.0



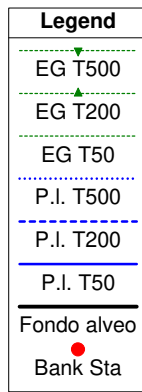
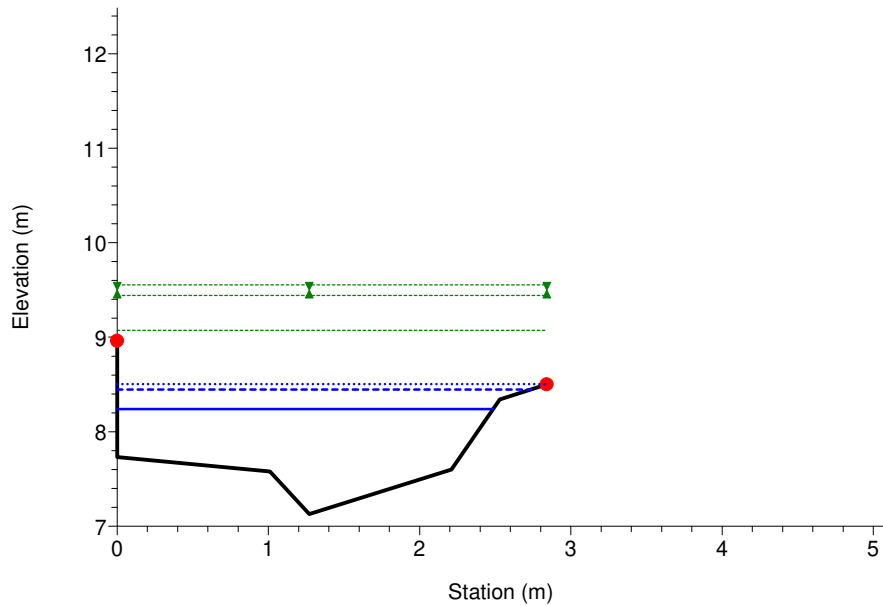
Acquadolce
RS = 7.5



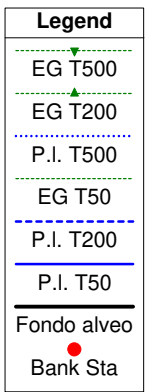
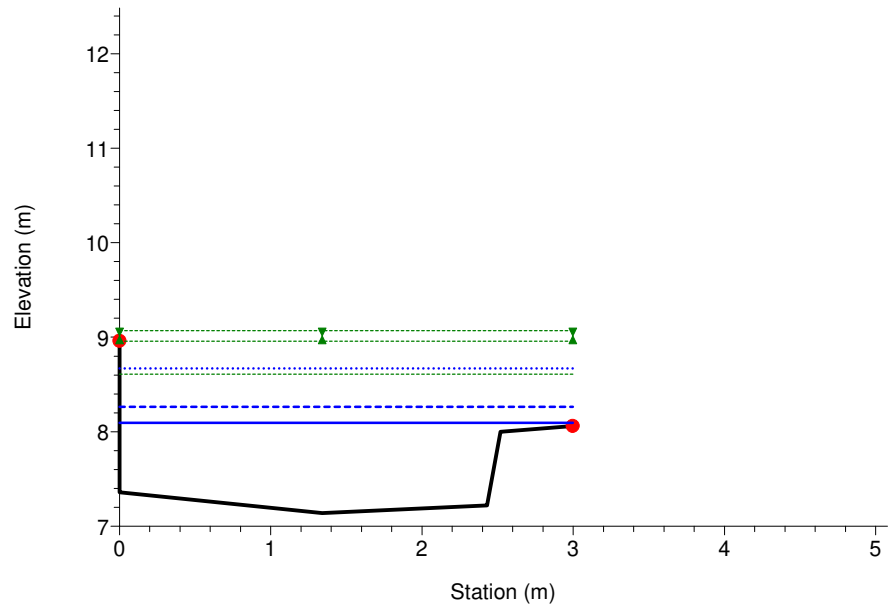
Acquadolce
RS = 7.0



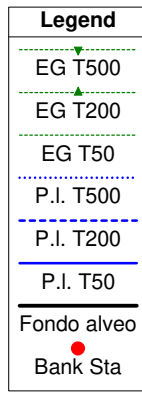
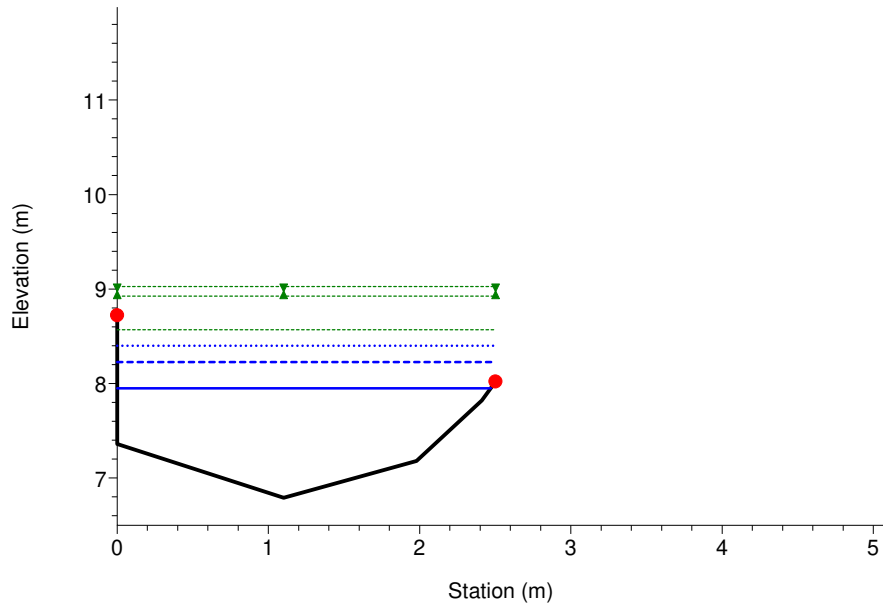
Acquadolce
RS = 6.0



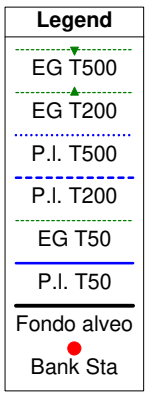
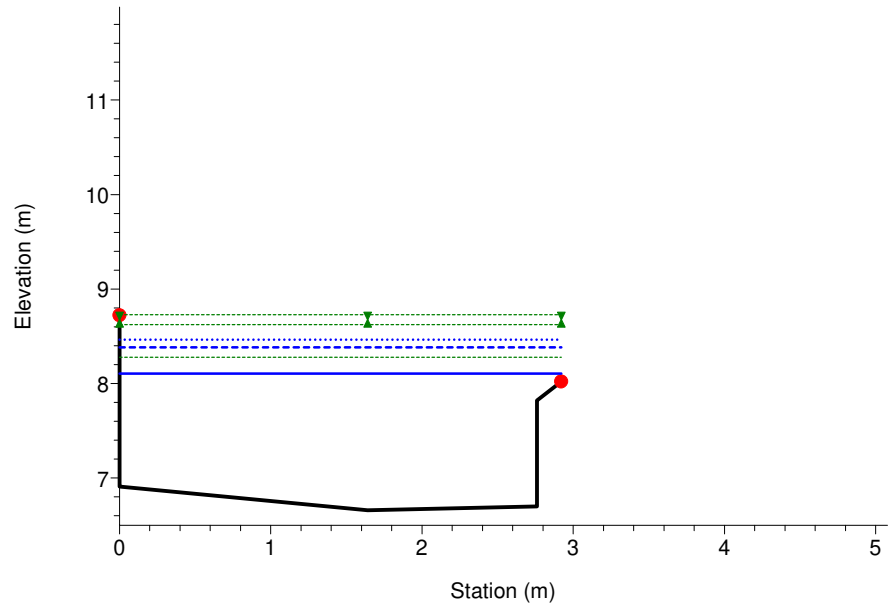
Acquadolce
RS = 5.0



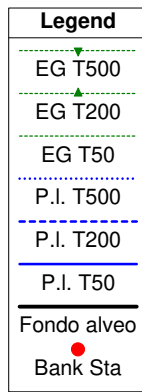
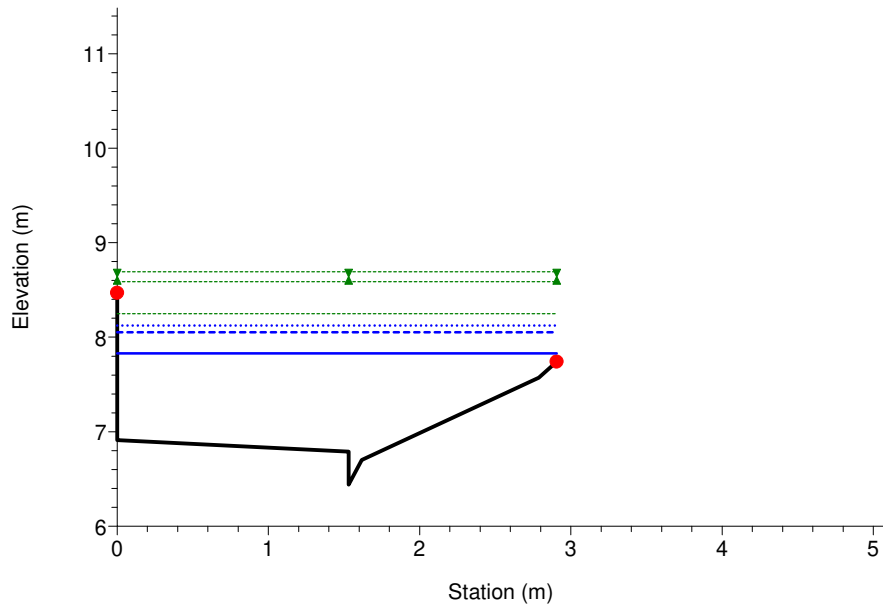
Acquadolce
RS = 4.0



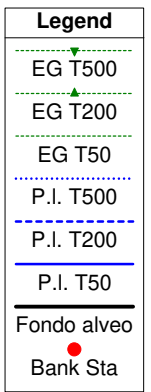
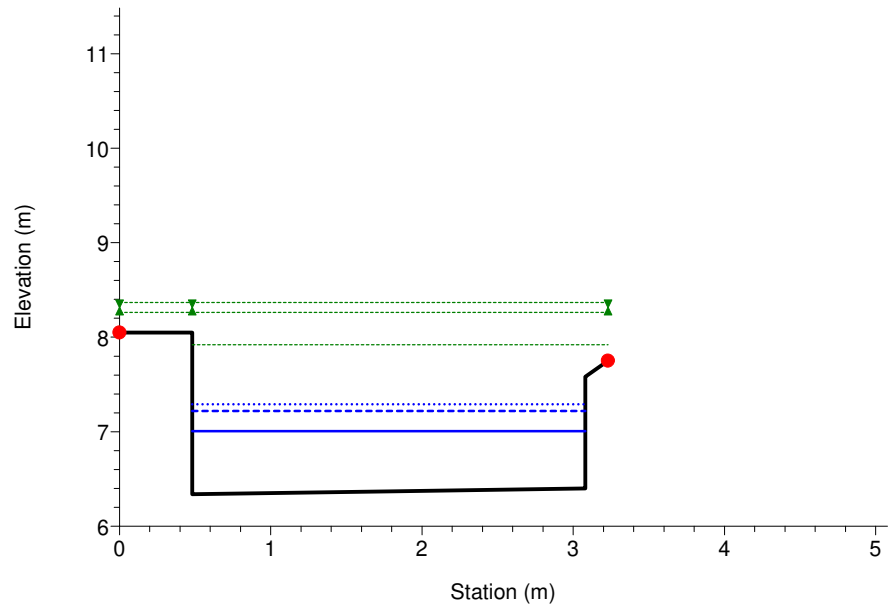
Acquadolce
RS = 3.0



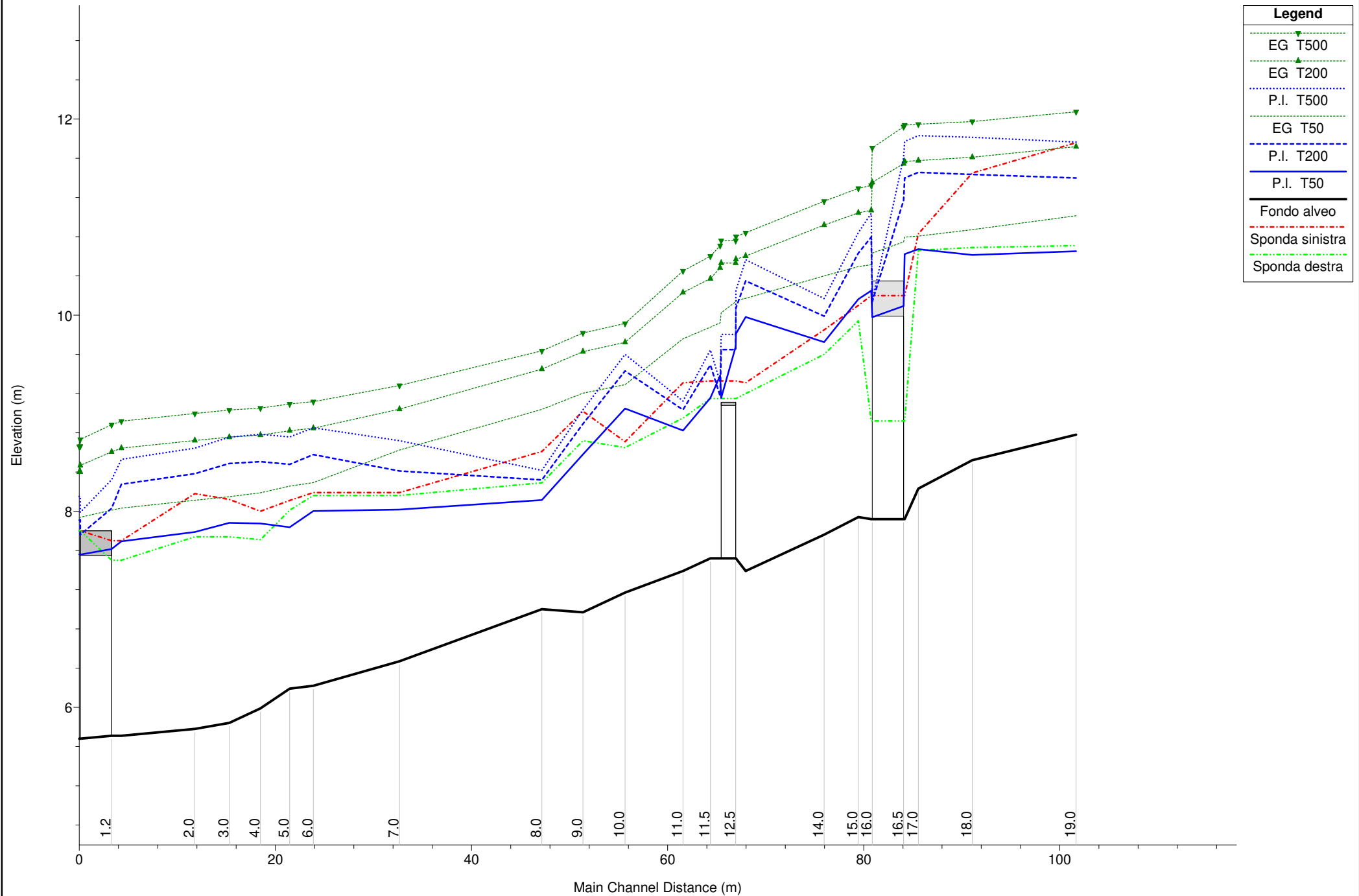
Acquadolce
RS = 2.0



Acquadolce
RS = 1.0



Prealpa



1 cm Horiz. = 5 m 1 cm Vert. = 0.5 m

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	LOB Elev (m)	ROB Elev (m)	Min Ch El (m)	W.S. Elev (m)	E.G. Elev (m)	Max Chl Dpth (m)	Hydr Depth (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Prealba	19.0	T50	11.00	101.67	11.76	10.71	8.78	10.65	11.01	1.87	1.65	2.66	4.13	2.50	0.66
Prealba	19.0	T200	15.00	101.67	11.76	10.71	8.78	11.40	11.72	2.62	2.40	2.50	6.00	2.50	0.52
Prealba	19.0	T500	17.00	101.67	11.76	10.71	8.78	11.77	12.07	2.99	2.77	2.46	6.92	2.50	0.47
Prealba	18.0	T50	11.00	91.07	11.45	10.69	8.52	10.61	10.87	2.09	1.43	2.25	4.89	3.42	0.60
Prealba	18.0	T200	15.00	91.07	11.45	10.69	8.52	11.43	11.61	2.91	2.07	1.86	8.07	3.90	0.41
Prealba	18.0	T500	17.00	91.07	11.45	10.69	8.52	11.81	11.98	3.29	2.45	1.78	9.55	3.90	0.36
Prealba	17.0	T50	11.00	85.57	10.83	10.66	8.23	10.67	10.81	2.44	1.78	1.61	6.81	3.82	0.39
Prealba	17.0	T200	15.00	85.57	10.83	10.66	8.23	11.46	11.58	3.23	2.57	1.53	9.81	3.82	0.30
Prealba	17.0	T500	17.00	85.57	10.83	10.66	8.23	11.83	11.95	3.60	2.94	1.51	11.23	3.82	0.28
Prealba	16.6	T50	11.00	84.17	10.20	8.92	7.92	10.62	10.80	2.70	1.98	1.85	5.94	3.00	0.42
Prealba	16.6	T200	15.00	84.17	10.20	8.92	7.92	11.40	11.57	3.48	2.76	1.81	8.28	3.00	0.35
Prealba	16.6	T500	17.00	84.17	10.20	8.92	7.92	11.77	11.94	3.85	3.13	1.81	9.39	3.00	0.33
Prealba	16.5	T50	11.00	84.07	8.92	8.92	7.92	10.09	10.75	2.17		3.58	3.07		0.78
Prealba	16.5	T200	15.00	84.07	8.92	8.92	7.92	11.17	11.55	3.25	1.84	2.71	5.53	3.00	0.48
Prealba	16.5	T500	17.00	84.07	8.92	8.92	7.92	11.61	11.92	3.69	2.28	2.48	6.84	3.00	0.41
Prealba	16.0	T50	11.00	80.87	8.92	8.92	7.92	9.98	10.63	2.06		3.58	3.07	0.12	0.80
Prealba	16.0	T200	15.00	80.87	8.92	8.92	7.92	10.14	11.35	2.22		4.89	3.07		1.05
Prealba	16.0	T500	17.00	80.87	8.92	8.92	7.92	10.14	11.71	2.22		5.54	3.07		1.19
Prealba	15.9	T50	11.00	80.77	10.20	8.92	7.92	10.25	10.51	2.33	1.61	2.28	4.82	3.00	0.57
Prealba	15.9	T200	15.00	80.77	10.20	8.92	7.92	10.80	11.07	2.88	2.15	2.32	6.46	3.00	0.51
Prealba	15.9	T500	17.00	80.77	10.20	8.92	7.92	11.04	11.32	3.12	2.40	2.37	7.19	3.00	0.49
Prealba	15.0	T50	11.00	79.47	10.10	9.94	7.94	10.16	10.50	2.22	2.07	2.55	4.31	2.08	0.57
Prealba	15.0	T200	15.00	79.47	10.10	9.94	7.94	10.63	11.04	2.69	2.54	2.84	5.29	2.08	0.57
Prealba	15.0	T500	17.00	79.47	10.10	9.94	7.94	10.84	11.29	2.90	2.75	2.97	5.72	2.08	0.57
Prealba	14.0	T50	11.00	75.97	9.85	9.60	7.76	9.73	10.40	1.97	1.75	3.64	3.03	1.72	0.88
Prealba	14.0	T200	15.00	75.97	9.85	9.60	7.76	9.99	10.92	2.23	1.86	4.27	3.52	1.89	1.00
Prealba	14.0	T500	17.00	75.97	9.85	9.60	7.76	10.17	11.16	2.41	2.04	4.41	3.86	1.89	0.99
Prealba	13.0	T50	11.00	67.97	9.31	9.20	7.39	9.98	10.17	2.59	2.01	1.94	5.68	2.83	0.44
Prealba	13.0	T200	15.00	67.97	9.31	9.20	7.39	10.35	10.60	2.96	2.38	2.23	6.73	2.83	0.46
Prealba	13.0	T500	17.00	67.97	9.31	9.20	7.39	10.57	10.84	3.18	2.59	2.32	7.34	2.83	0.46
Prealba	12.9	T50	11.00	66.97	9.33	9.15	7.52	9.81	10.15	2.29	2.08	2.58	4.26	2.05	0.57
Prealba	12.9	T200	15.00	66.97	9.33	9.15	7.52	10.07	10.57	2.55	2.34	3.12	4.80	2.05	0.65
Prealba	12.9	T500	17.00	66.97	9.33	9.15	7.52	10.25	10.80	2.73	2.52	3.29	5.16	2.05	0.66
Prealba	12.5		Bridge												
Prealba	12.0	T50	11.00	65.37	9.33	9.15	7.52	9.39	9.92	1.87	1.65	3.24	3.39	2.05	0.81
Prealba	12.0	T200	15.00	65.37	9.33	9.15	7.52	9.17	10.48	1.65	1.45	5.07	2.96	2.04	1.34
Prealba	12.0	T500	17.00	65.37	9.33	9.15	7.52	9.32	10.71	1.80	1.59	5.22	3.25	2.05	1.32

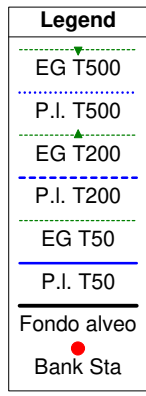
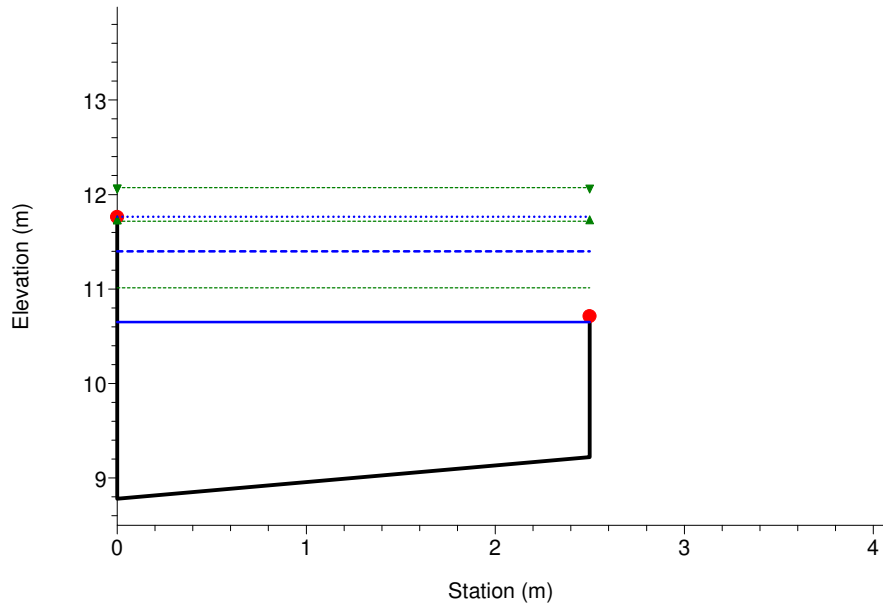
HEC-RAS Plan: 0.033 River: Rio Prealba Reach: Prealba (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	LOB Elev (m)	ROB Elev (m)	Min Ch El (m)	W.S. Elev (m)	E.G. Elev (m)	Max Chl Dpth (m)	Hydr Depth (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Prealba	11.5	T50	11.00	64.37	9.33	9.15	7.52	9.15	9.88	1.63	1.43	3.77	2.92	2.04	1.00
Prealba	11.5	T200	15.00	64.37	9.33	9.15	7.52	9.49	10.37	1.97	1.76	4.15	3.61	2.05	1.00
Prealba	11.5	T500	17.00	64.37	9.33	9.15	7.52	9.64	10.60	2.12	1.91	4.33	3.92	2.05	1.00
Prealba	11.0	T50	11.00	61.57	9.31	8.95	7.39	8.82	9.76	1.43	1.08	4.29	2.57	2.39	1.32
Prealba	11.0	T200	15.00	61.57	9.31	8.95	7.39	9.03	10.23	1.65	1.20	4.84	3.10	2.58	1.41
Prealba	11.0	T500	17.00	61.57	9.31	8.95	7.39	9.12	10.45	1.73	1.25	5.10	3.33	2.66	1.46
Prealba	10.0	T50	11.00	55.67	8.71	8.65	7.17	9.05	9.29	1.88	1.55	2.19	5.03	3.24	0.56
Prealba	10.0	T200	15.00	55.67	8.71	8.65	7.17	9.43	9.72	2.26	1.94	2.39	6.27	3.24	0.55
Prealba	10.0	T500	17.00	55.67	8.71	8.65	7.17	9.60	9.92	2.43	2.11	2.49	6.82	3.24	0.55
Prealba	9.0	T50	11.00	51.37	9.02	8.72	6.97	8.58	9.20	1.61	1.25	3.50	3.14	2.52	1.00
Prealba	9.0	T200	15.00	51.37	9.02	8.72	6.97	8.89	9.63	1.92	1.47	3.80	3.95	2.68	1.00
Prealba	9.0	T500	17.00	51.37	9.02	8.72	6.97	9.03	9.82	2.06	1.57	3.92	4.34	2.77	1.00
Prealba	8.0	T50	11.00	47.17	8.61	8.29	7.00	8.11	9.04	1.11	0.88	4.26	2.58	2.93	1.45
Prealba	8.0	T200	15.00	47.17	8.61	8.29	7.00	8.32	9.45	1.32	1.08	4.71	3.19	2.96	1.45
Prealba	8.0	T500	17.00	47.17	8.61	8.29	7.00	8.42	9.64	1.42	1.14	4.89	3.48	3.06	1.46
Prealba	7.0	T50	11.00	32.67	8.19	8.16	6.47	8.02	8.62	1.55	1.20	3.45	3.19	2.65	1.01
Prealba	7.0	T200	15.00	32.67	8.19	8.16	6.47	8.41	9.04	1.94	1.54	3.52	4.27	2.76	0.90
Prealba	7.0	T500	17.00	32.67	8.19	8.16	6.47	8.72	9.28	2.25	1.85	3.32	5.12	2.76	0.78
Prealba	6.0	T50	11.00	23.87	8.19	8.16	6.22	8.00	8.29	1.78	1.40	2.39	4.61	3.29	0.64
Prealba	6.0	T200	15.00	23.87	8.19	8.16	6.22	8.58	8.85	2.36	1.95	2.30	6.52	3.34	0.53
Prealba	6.0	T500	17.00	23.87	8.19	8.16	6.22	8.85	9.12	2.63	2.22	2.29	7.44	3.34	0.49
Prealba	5.0	T50	11.00	21.47	8.11	8.01	6.19	7.84	8.26	1.65	1.29	2.86	3.84	2.99	0.81
Prealba	5.0	T200	15.00	21.47	8.11	8.01	6.19	8.48	8.82	2.29	1.91	2.60	5.78	3.03	0.60
Prealba	5.0	T500	17.00	21.47	8.11	8.01	6.19	8.76	9.09	2.57	2.19	2.56	6.63	3.03	0.55
Prealba	4.0	T50	11.00	18.47	8.00	7.71	5.99	7.87	8.19	1.88	1.35	2.49	4.42	3.27	0.68
Prealba	4.0	T200	15.00	18.47	8.00	7.71	5.99	8.51	8.78	2.52	1.98	2.31	6.50	3.29	0.52
Prealba	4.0	T500	17.00	18.47	8.00	7.71	5.99	8.78	9.05	2.79	2.26	2.29	7.42	3.29	0.49
Prealba	3.0	T50	11.00	15.30	8.12	7.74	5.84	7.88	8.15	2.04	1.71	2.29	4.80	2.81	0.56
Prealba	3.0	T200	15.00	15.30	8.12	7.74	5.84	8.49	8.76	2.65	2.28	2.30	6.53	2.86	0.49
Prealba	3.0	T500	17.00	15.30	8.12	7.74	5.84	8.75	9.03	2.91	2.55	2.33	7.29	2.86	0.47
Prealba	2.0	T50	11.00	11.80	8.18	7.74	5.78	7.79	8.11	2.01	1.82	2.52	4.37	2.40	0.60
Prealba	2.0	T200	15.00	11.80	8.18	7.74	5.78	8.38	8.72	2.60	2.37	2.58	5.81	2.45	0.54
Prealba	2.0	T500	17.00	11.80	8.18	7.74	5.78	8.64	9.00	2.86	2.63	2.64	6.45	2.45	0.52
Prealba	1.5	T50	11.00	4.30	7.70	7.50	5.71	7.69	8.03	1.98	1.90	2.58	4.27	2.25	0.60
Prealba	1.5	T200	15.00	4.30	7.70	7.50	5.71	8.28	8.64	2.57	2.48	2.69	5.58	2.25	0.55
Prealba	1.5	T500	17.00	4.30	7.70	7.50	5.71	8.53	8.92	2.82	2.73	2.76	6.15	2.25	0.53

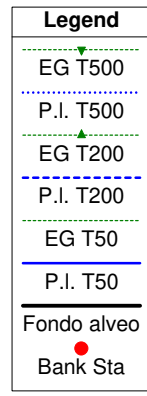
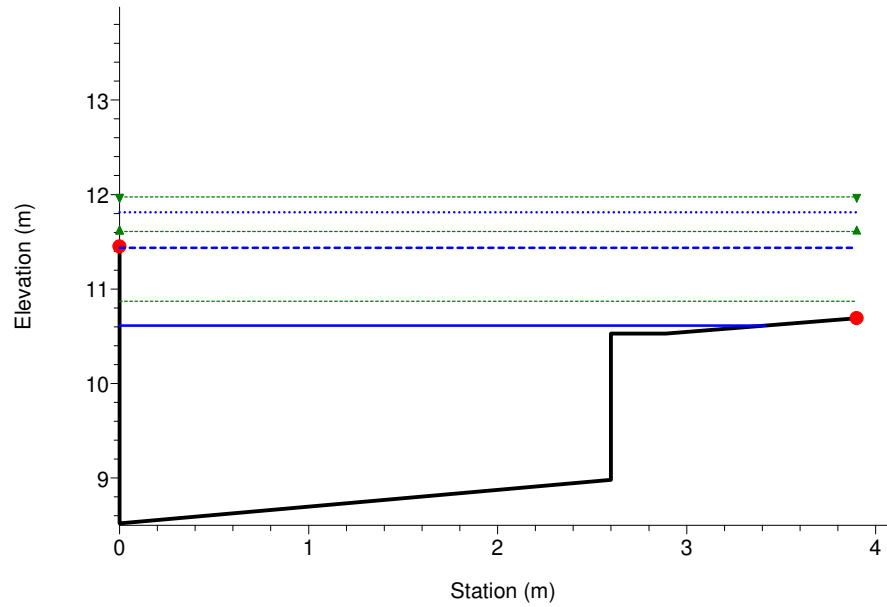
HEC-RAS Plan: 0.033 River: Rio Prealba Reach: Prealba (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Cum Ch Len (m)	LOB Elev (m)	ROB Elev (m)	Min Ch El (m)	W.S. Elev (m)	E.G. Elev (m)	Max Chl Dpth (m)	Hydr Depth (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Prealba	1.2		Bridge												
Prealba	1.0	T50	11.00	0.10	7.80	7.80	5.68	7.56	7.94	1.88	1.80	2.72	4.05	2.25	0.65
Prealba	1.0	T200	15.00	0.10	7.80	7.80	5.68	7.91	8.40	2.23	2.15	3.10	4.84	2.25	0.67
Prealba	1.0	T500	17.00	0.10	7.80	7.80	5.68	8.15	8.66	2.47	2.39	3.16	5.38	2.25	0.65
Prealba	0.5	T50	11.00		7.80	7.80	5.68	7.56	7.94	1.88	1.80	2.72	4.05	2.25	0.65
Prealba	0.5	T200	15.00		7.80	7.80	5.68	7.91	8.40	2.23	2.15	3.10	4.83	2.25	0.68
Prealba	0.5	T500	17.00		7.80	7.80	5.68	8.15	8.66	2.47	2.39	3.16	5.37	2.25	0.65

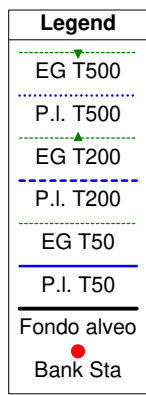
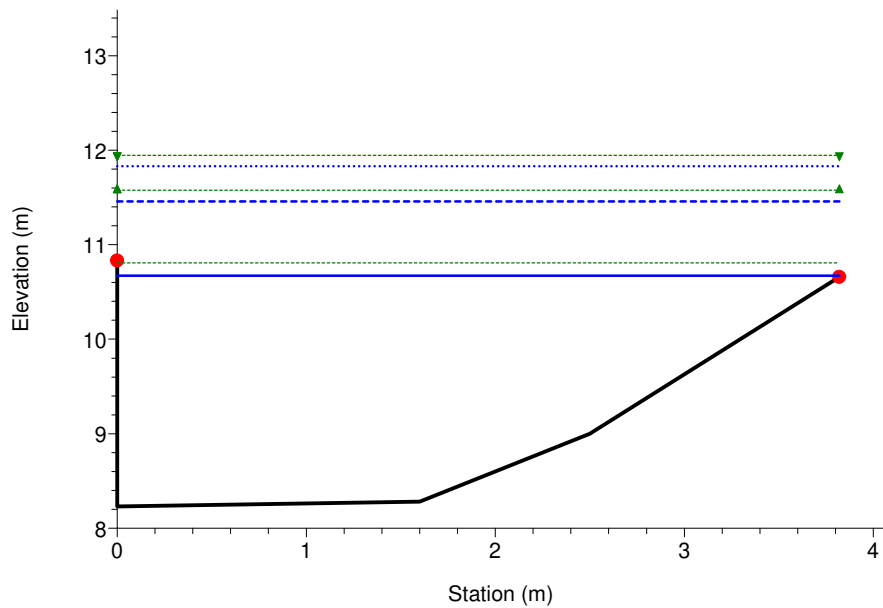
Prealpa
RS = 19.0



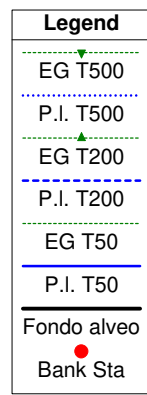
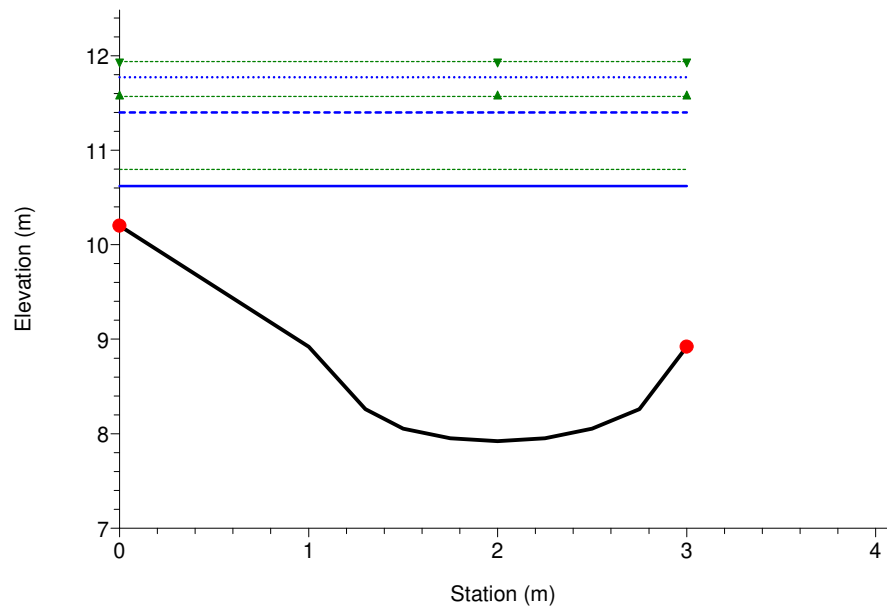
Prealpa
RS = 18.0



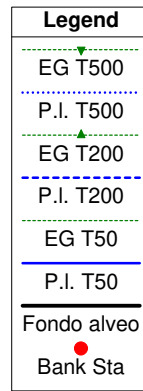
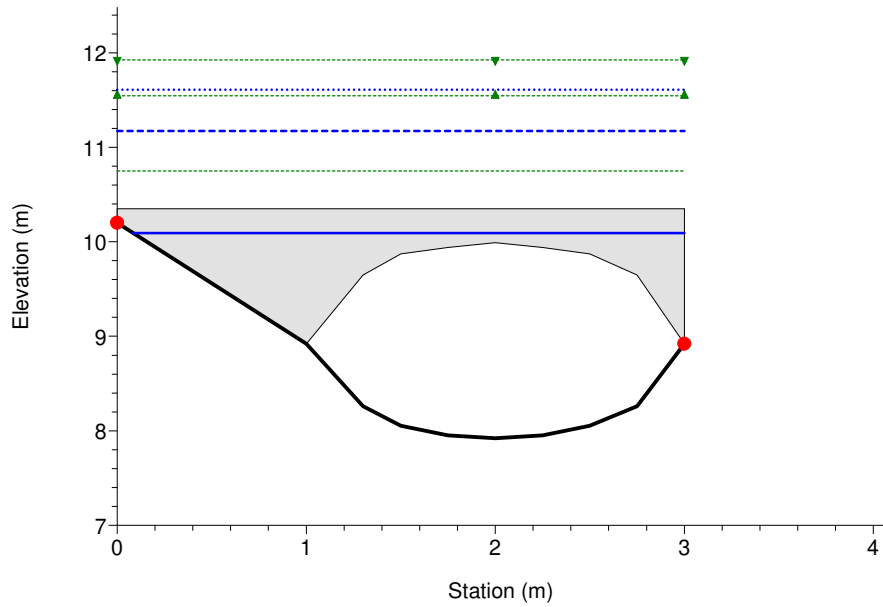
Prealpa
RS = 17.0



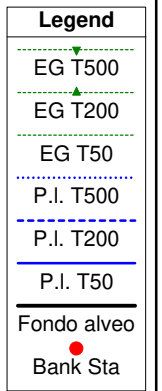
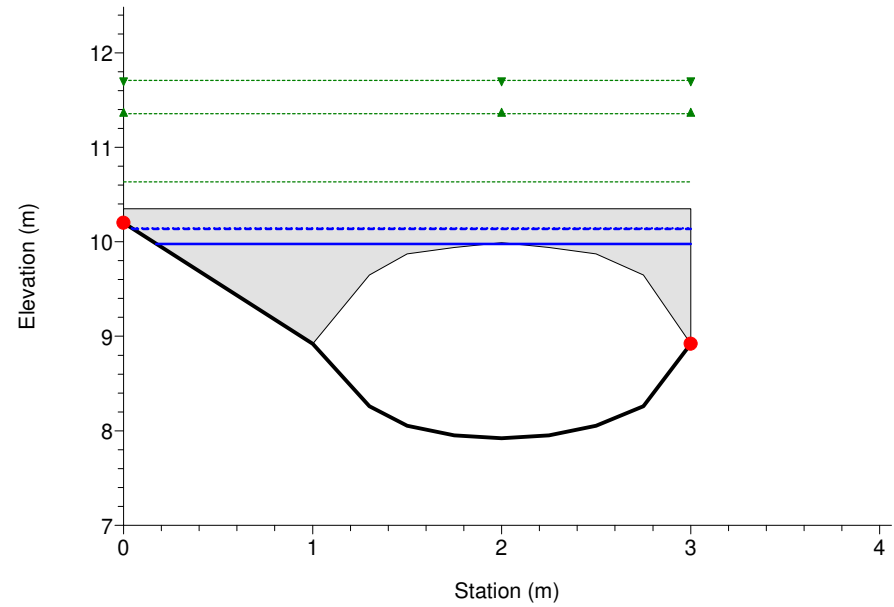
Prealpa
RS = 16.6



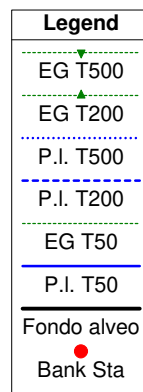
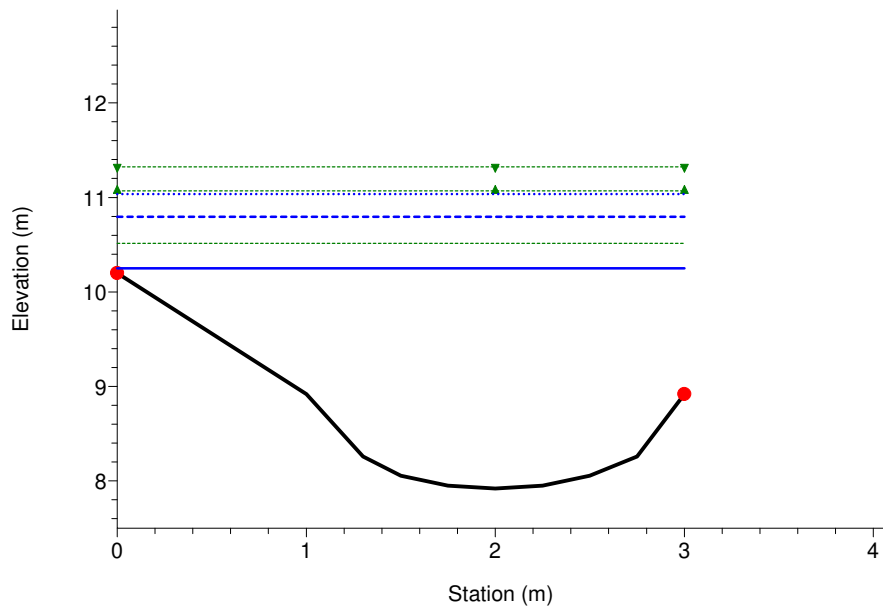
Prealpa
RS = 16.5



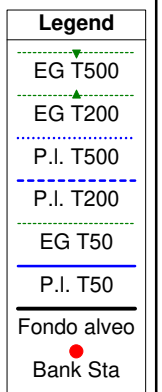
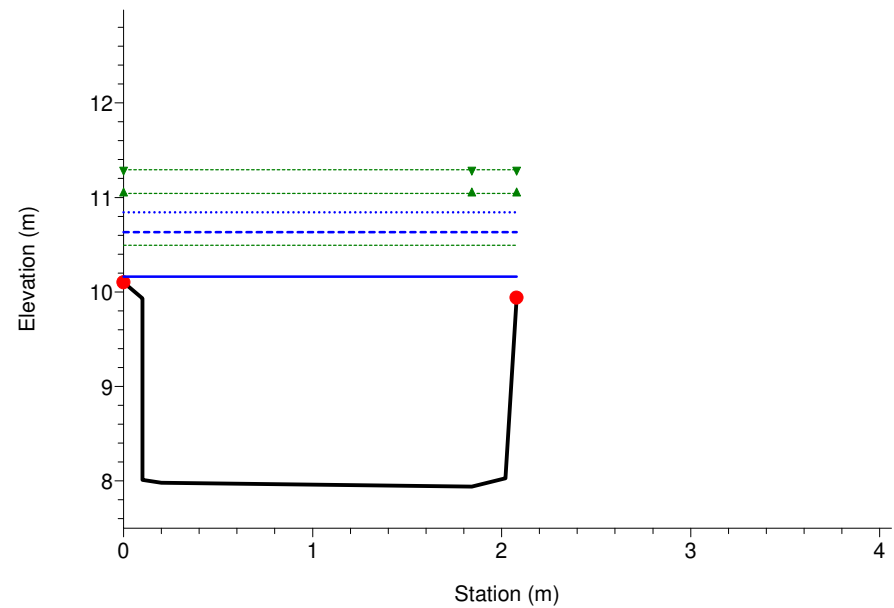
Prealpa
RS = 16.0



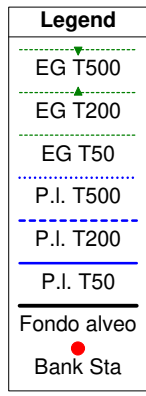
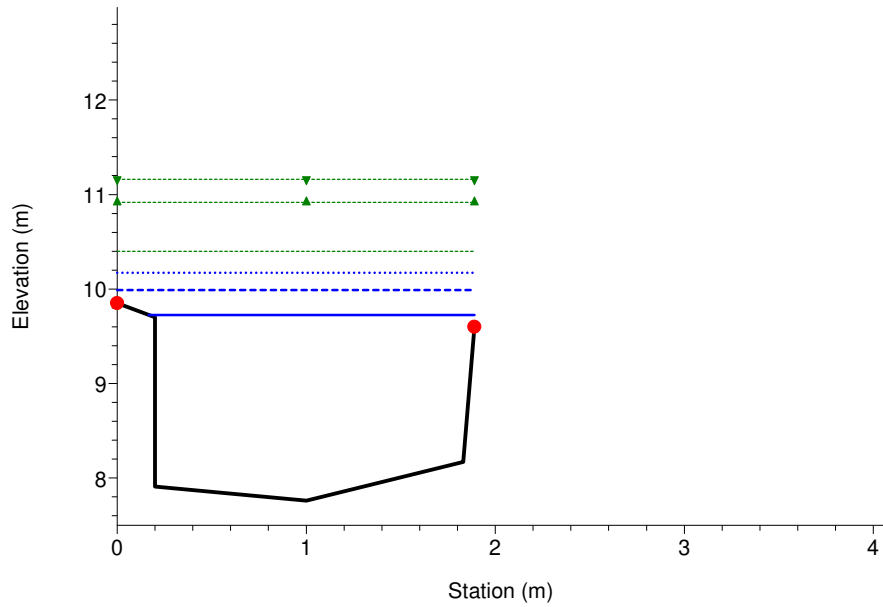
Prealpa
RS = 15.9



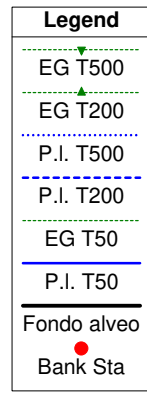
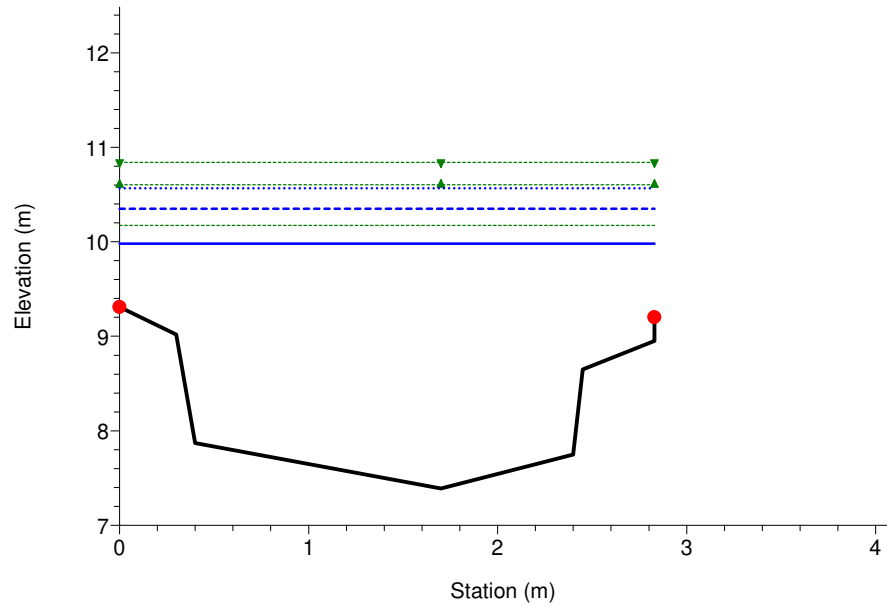
Prealpa
RS = 15.0



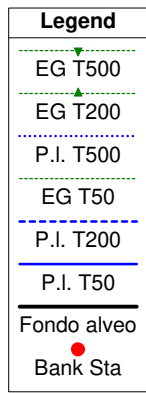
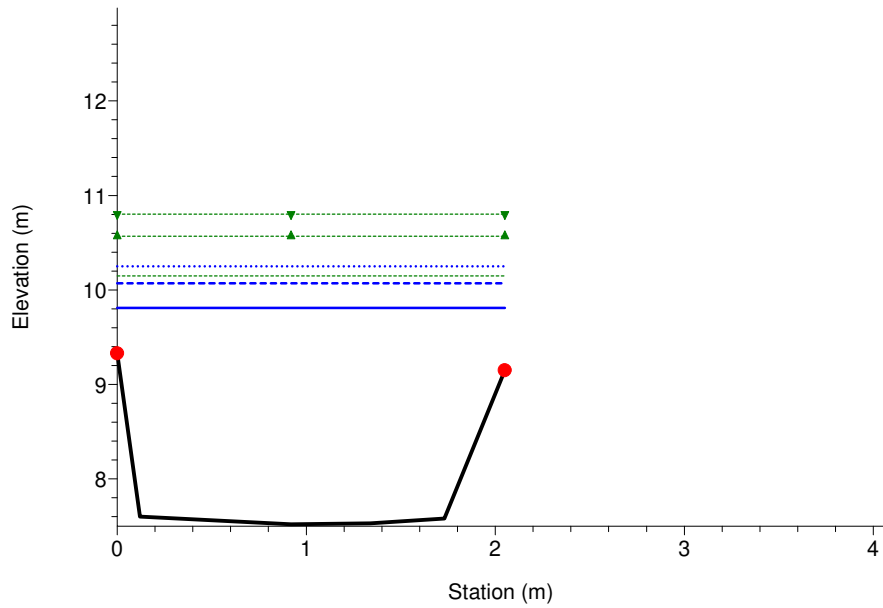
Prealpa
RS = 14.0



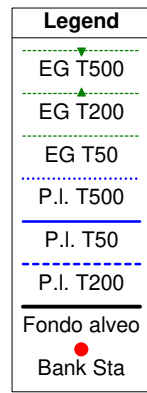
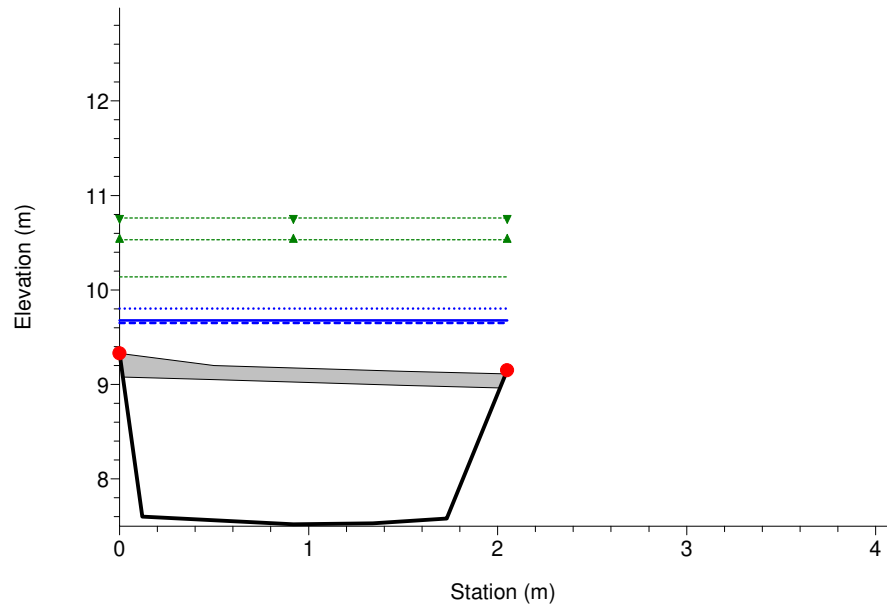
Prealpa
RS = 13.0



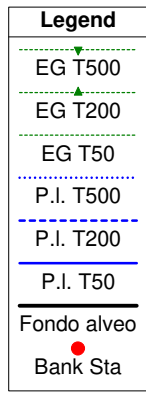
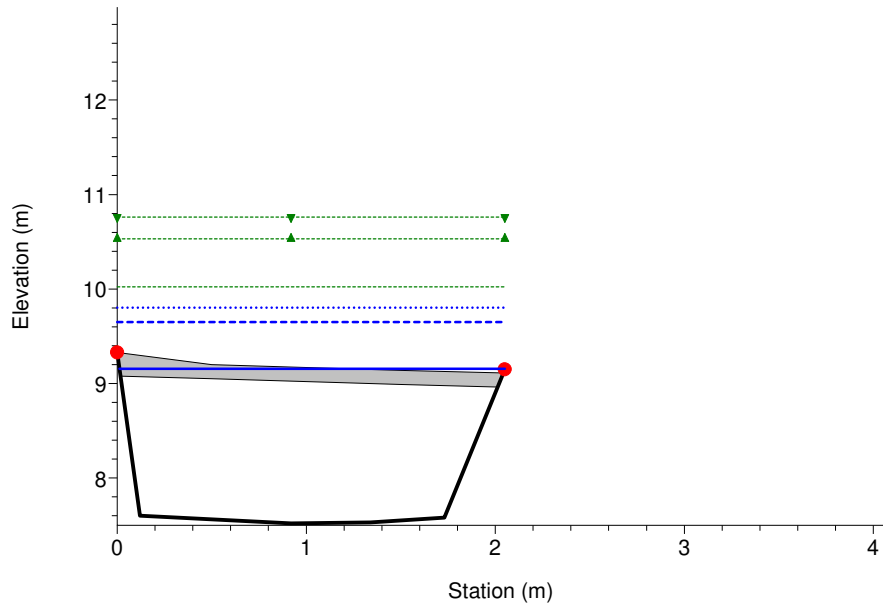
Prealpa
RS = 12.9



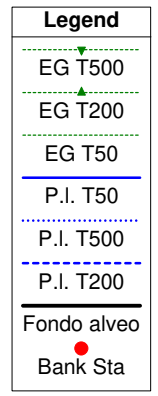
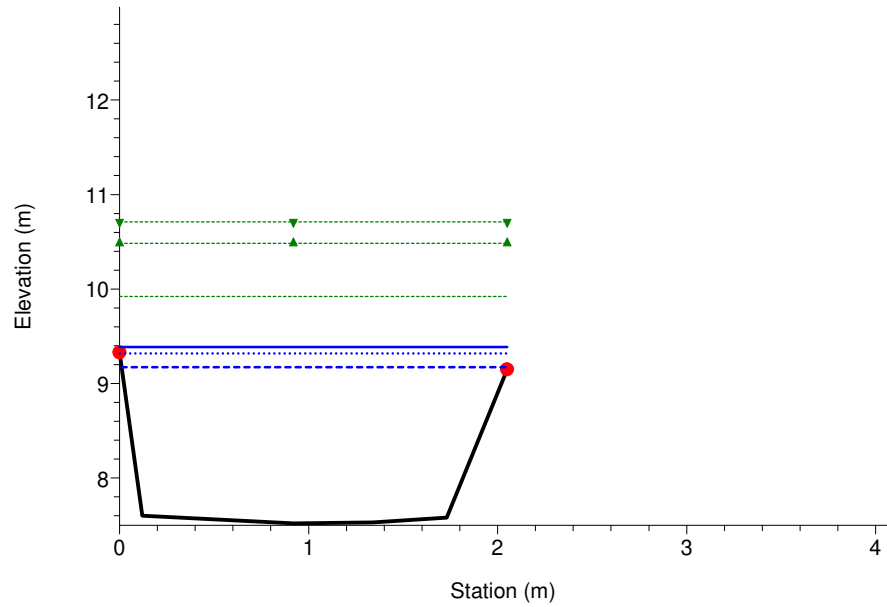
Prealpa
RS = 12.5 BR



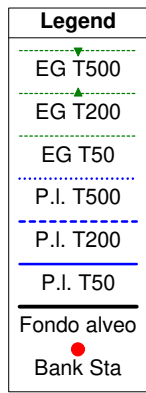
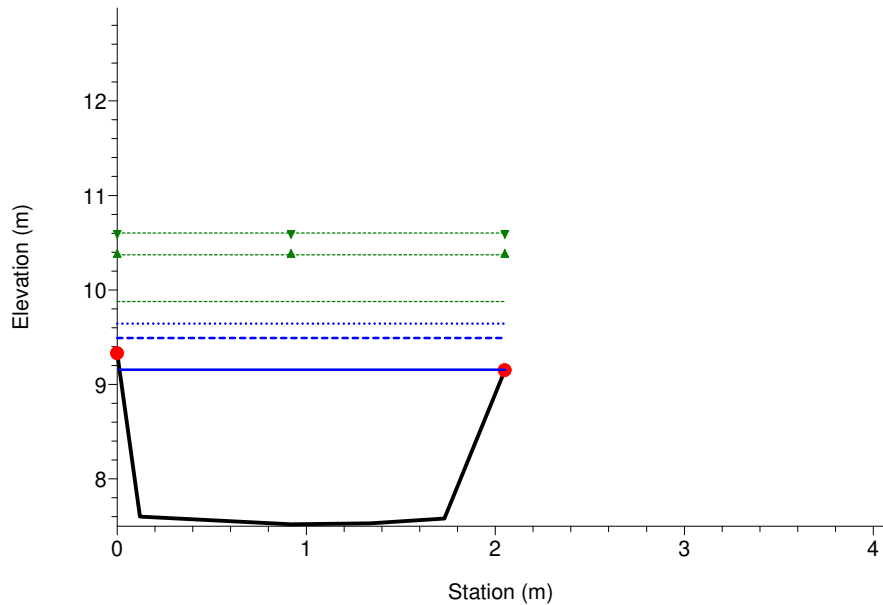
Prealba
RS = 12.5 BR



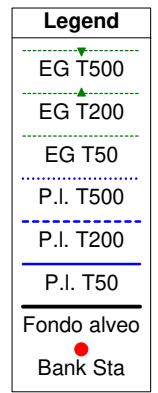
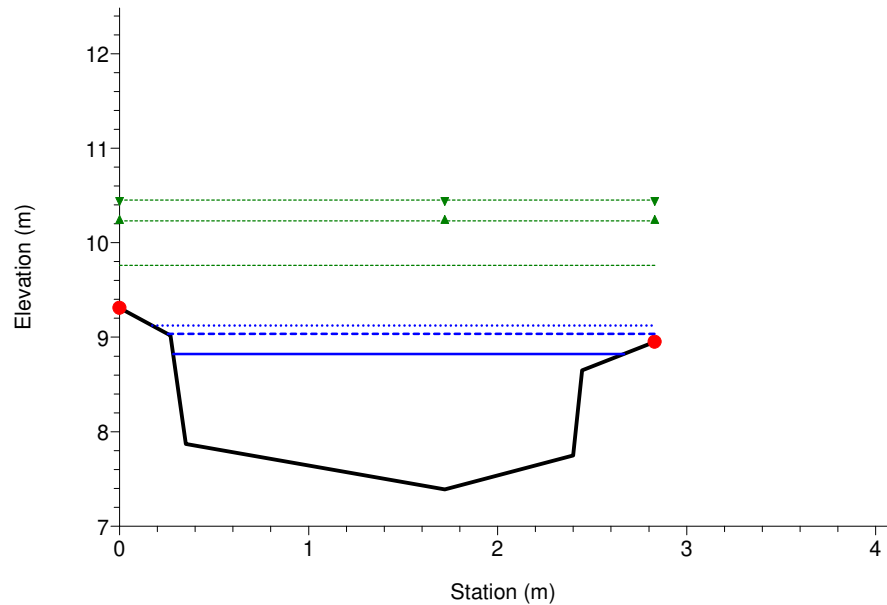
Prealba
RS = 12.0



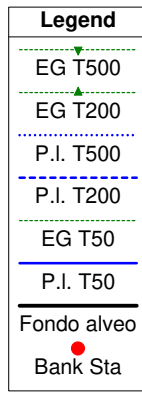
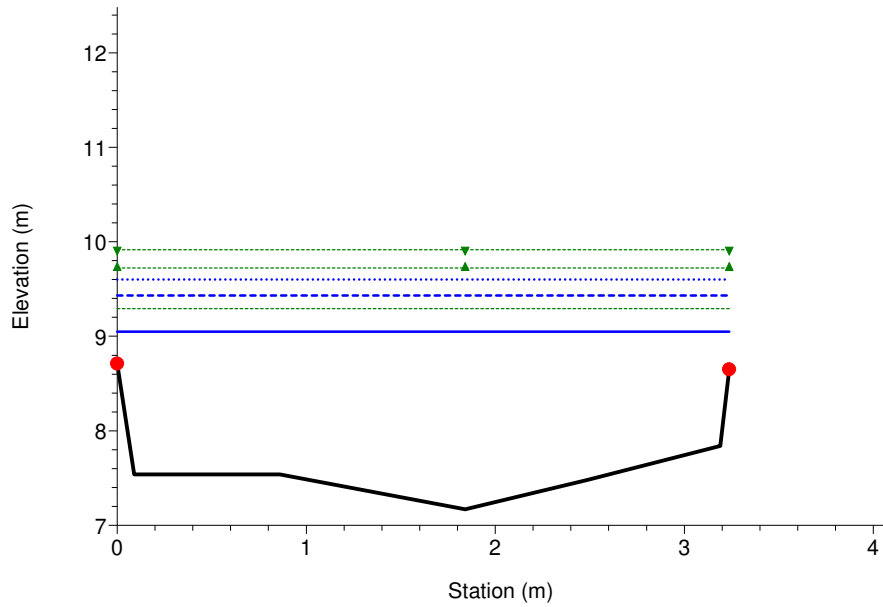
Prealba
RS = 11.5



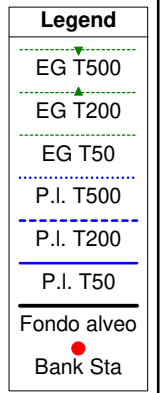
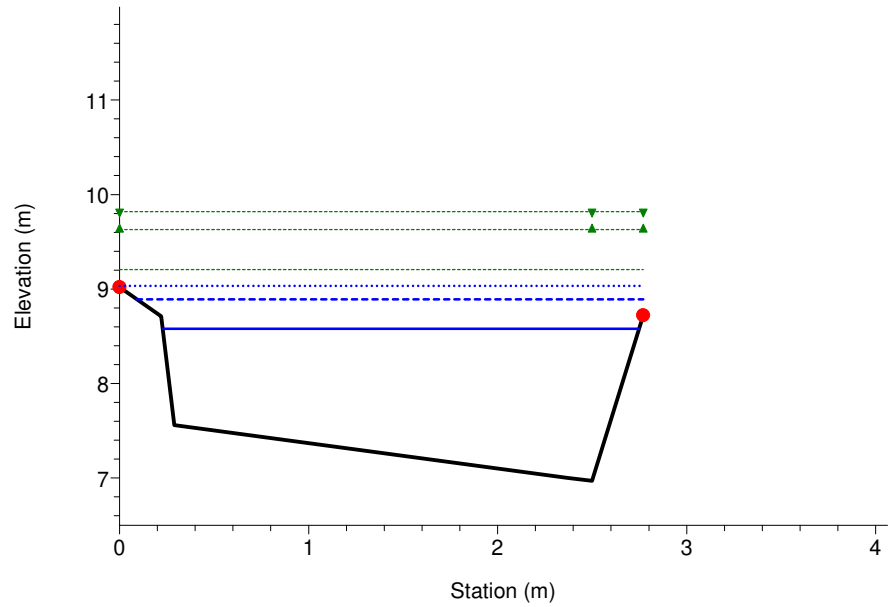
Prealba
RS = 11.0



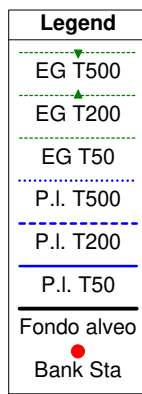
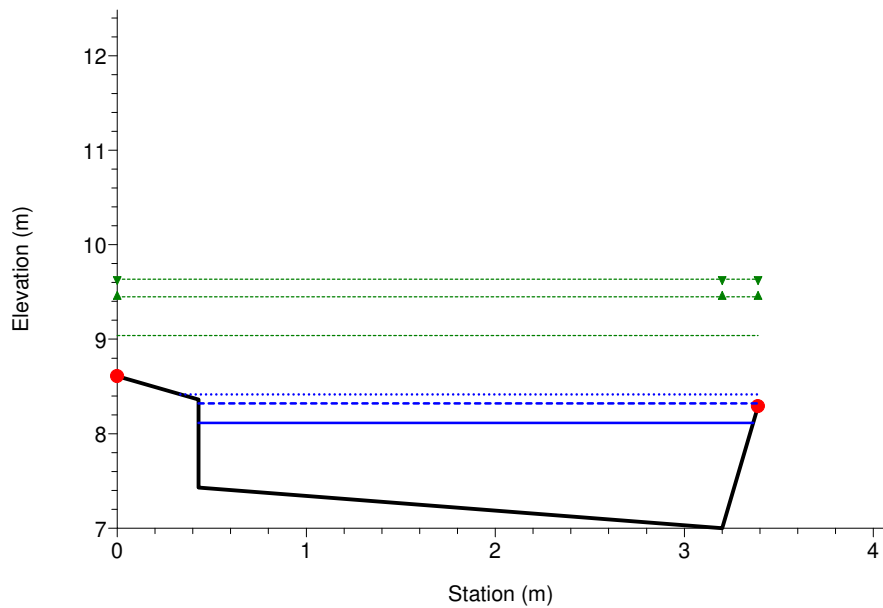
Prealpa
RS = 10.0



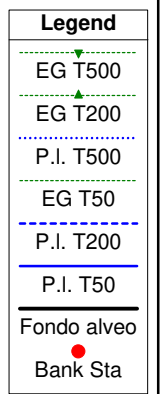
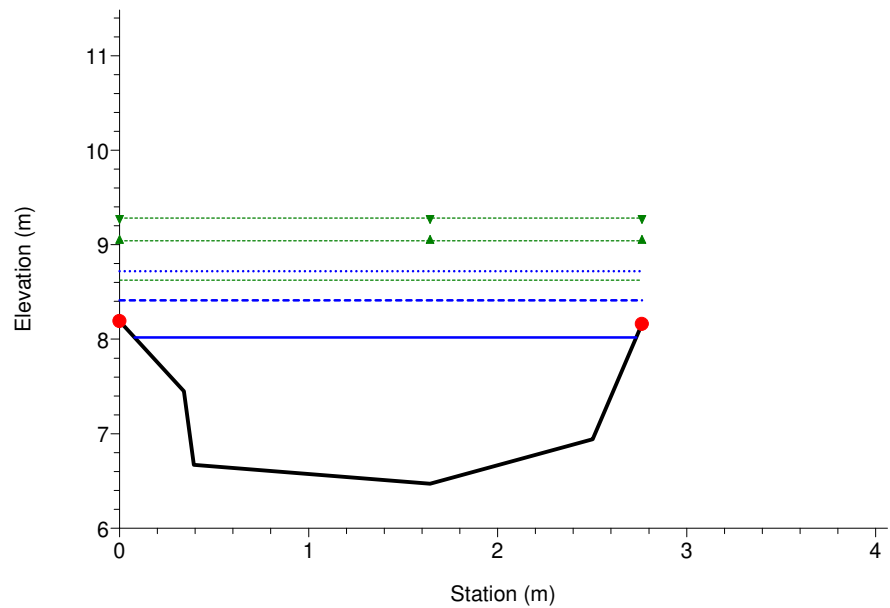
Prealpa
RS = 9.0



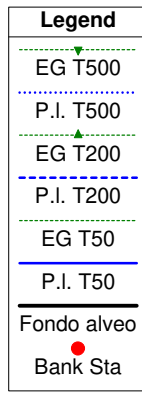
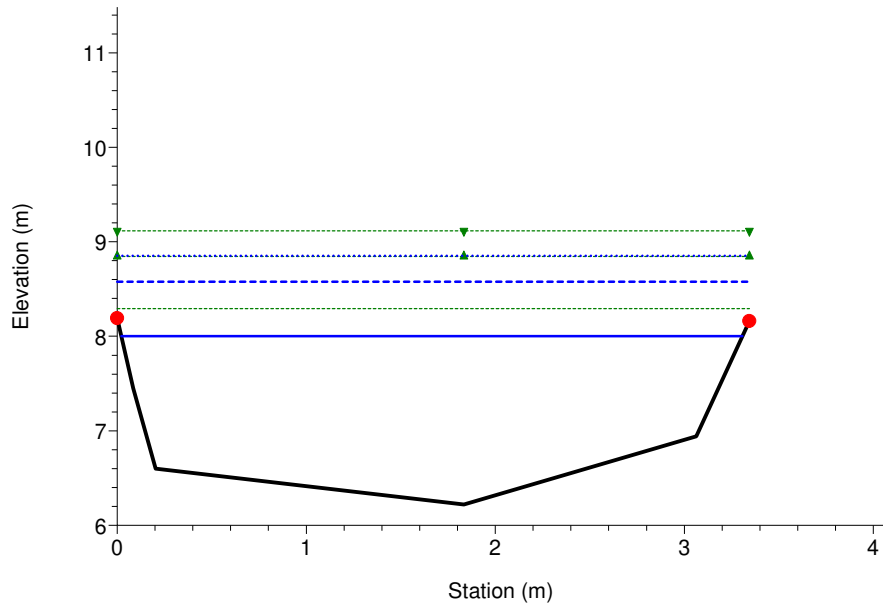
Prealpa
RS = 8.0



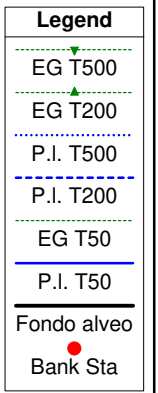
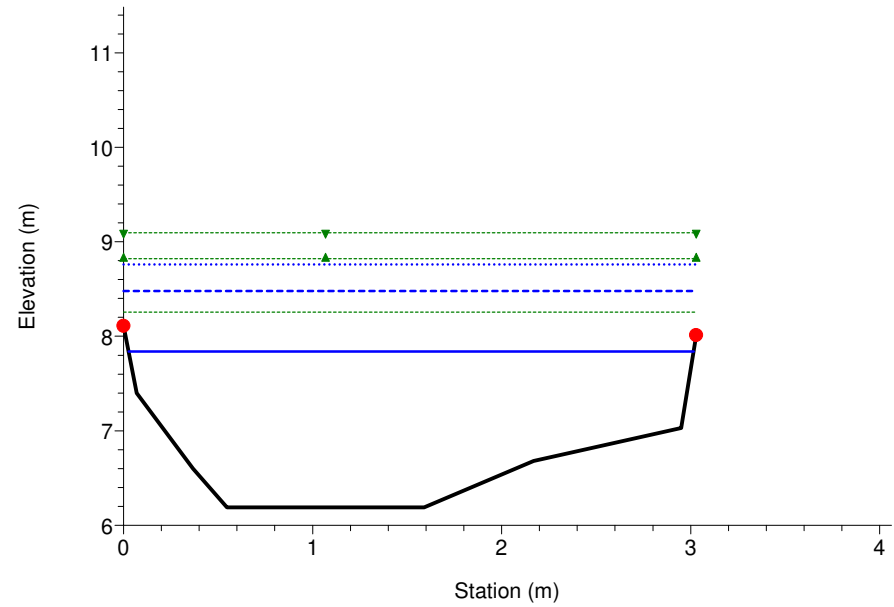
Prealpa
RS = 7.0



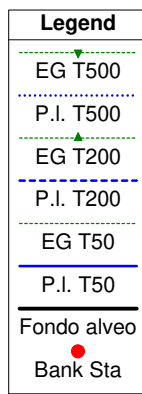
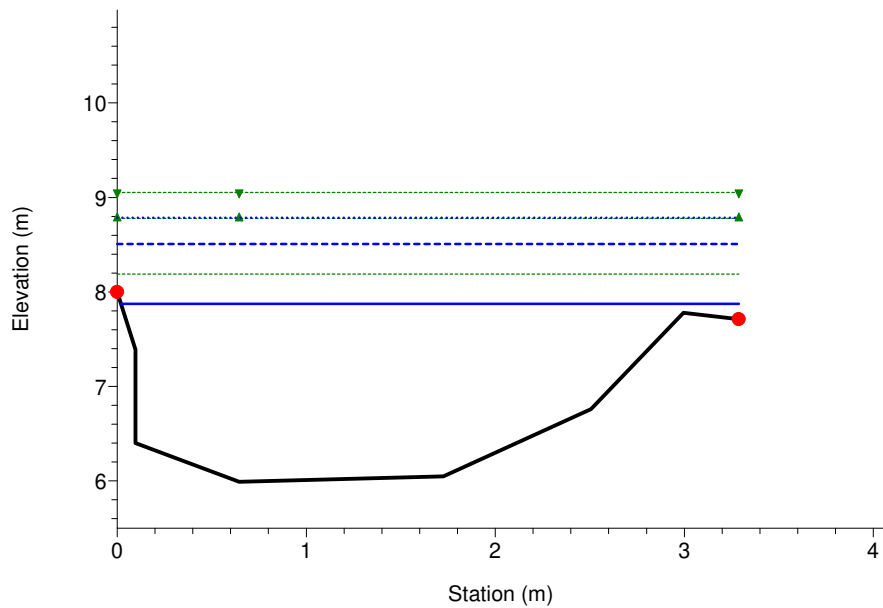
Prealba
RS = 6.0



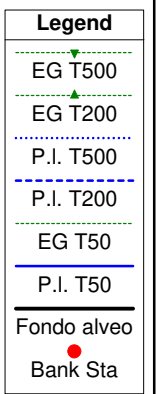
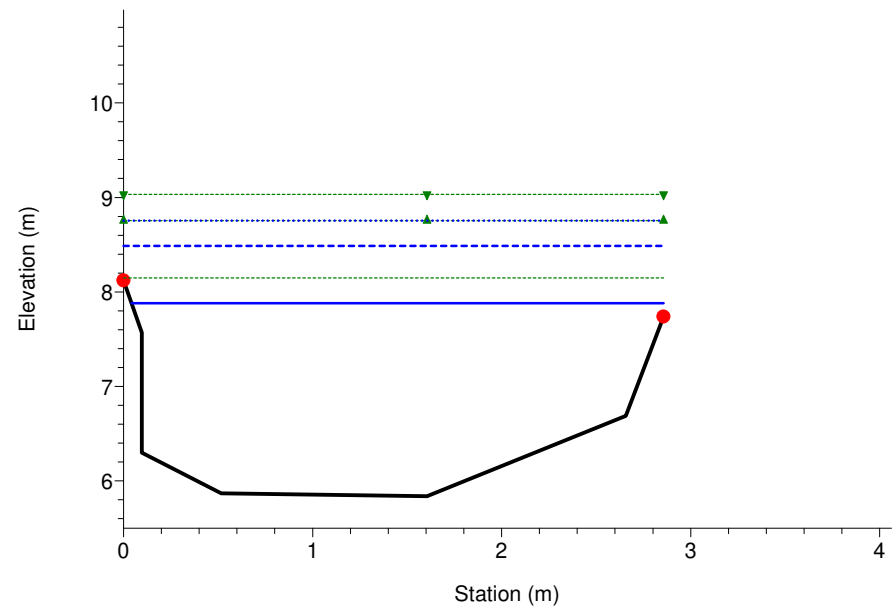
Prealba
RS = 5.0



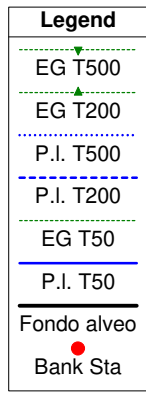
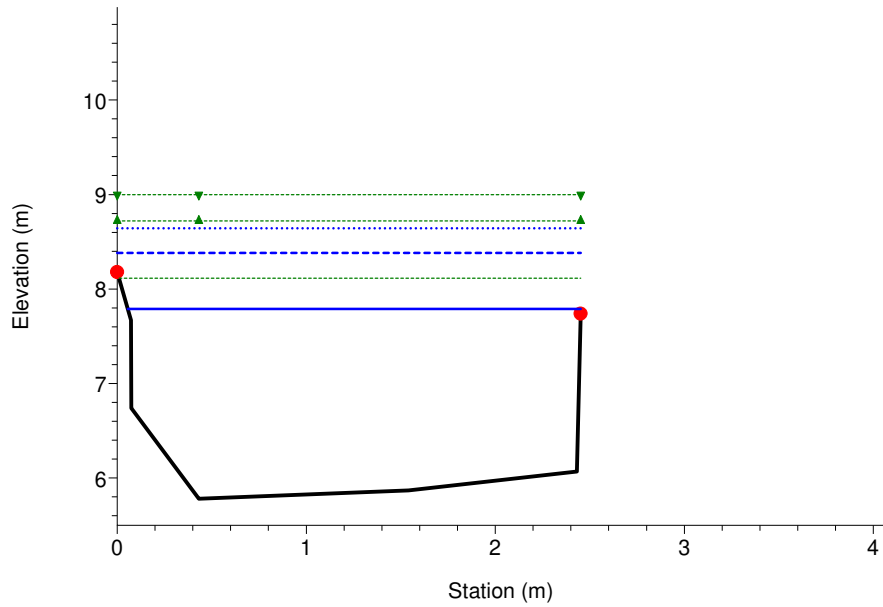
Prealba
RS = 4.0



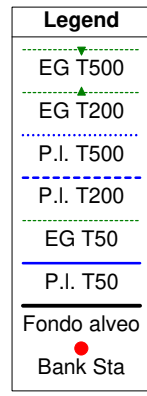
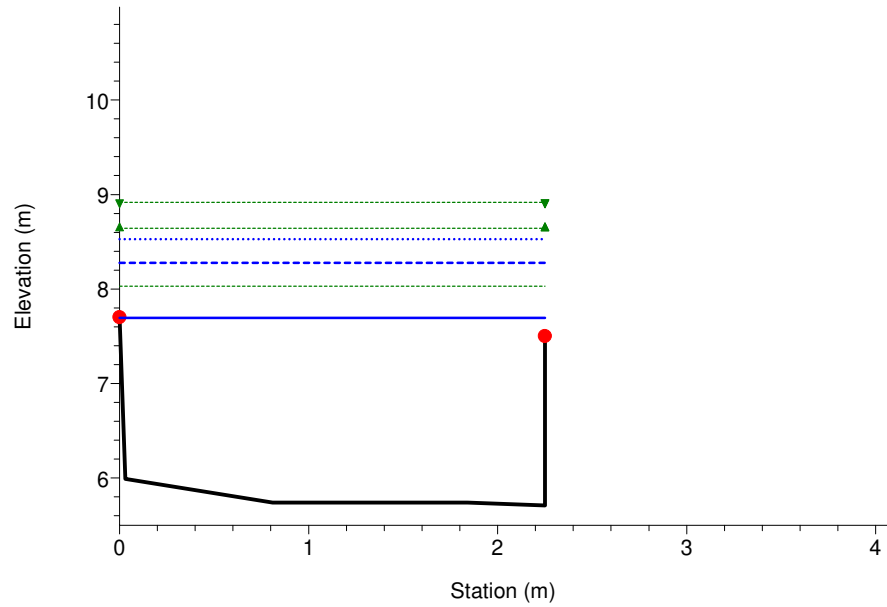
Prealba
RS = 3.0



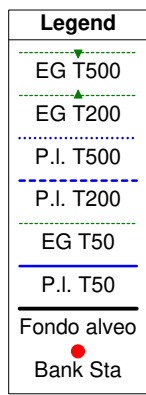
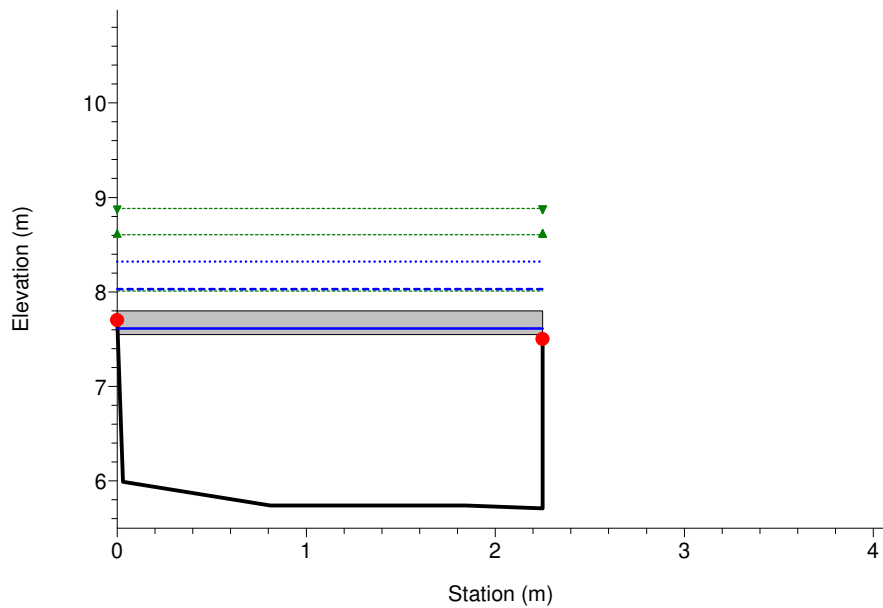
Prealpa
RS = 2.0



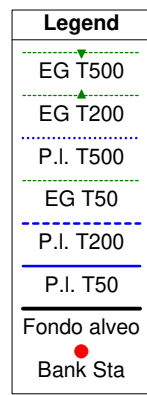
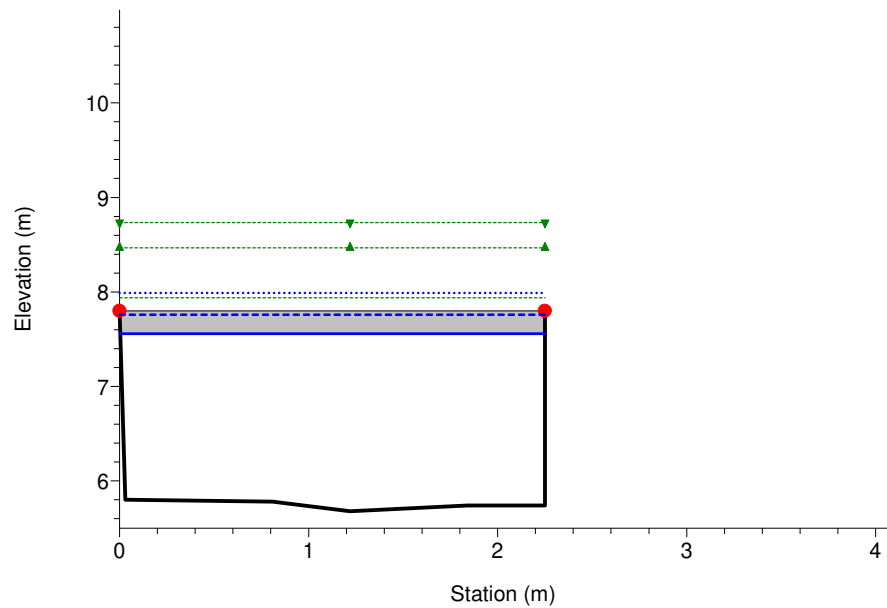
Prealpa
RS = 1.5



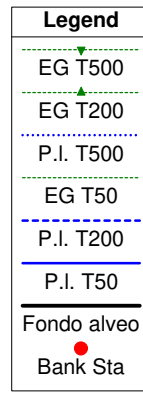
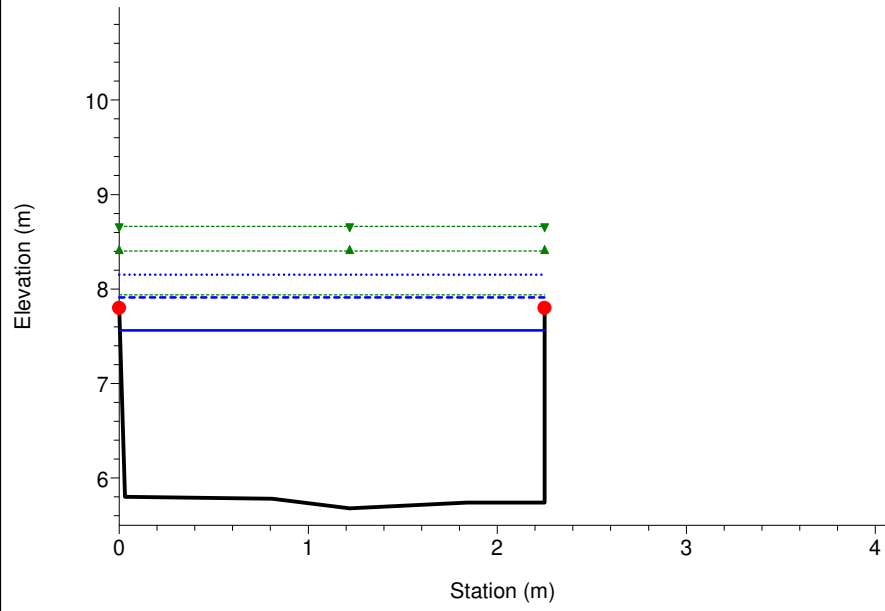
Prealpa
RS = 1.2 BR



Prealpa
RS = 1.2 BR



Prealba
RS = 1.0



Prealba
RS = 0.5

