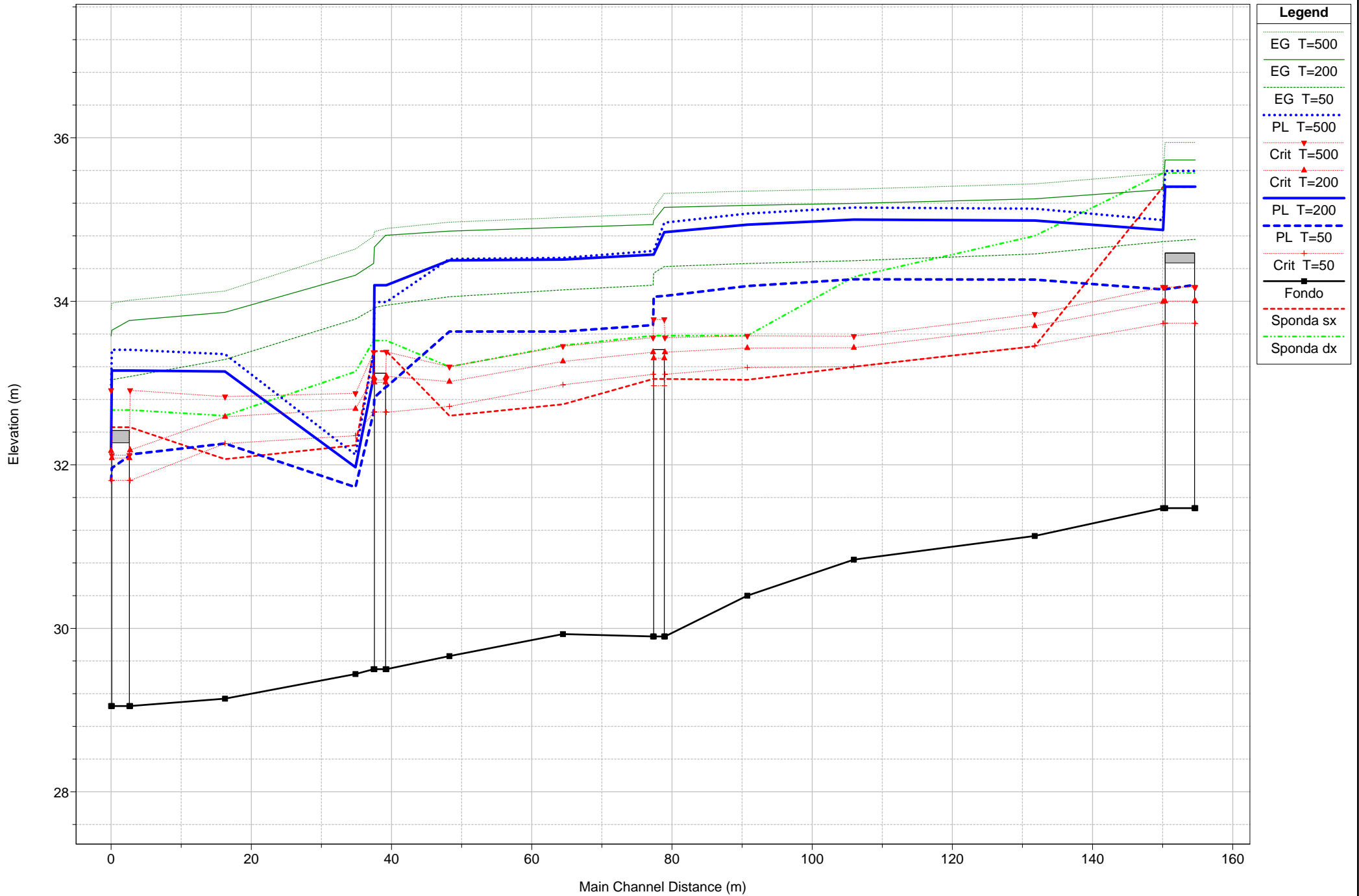
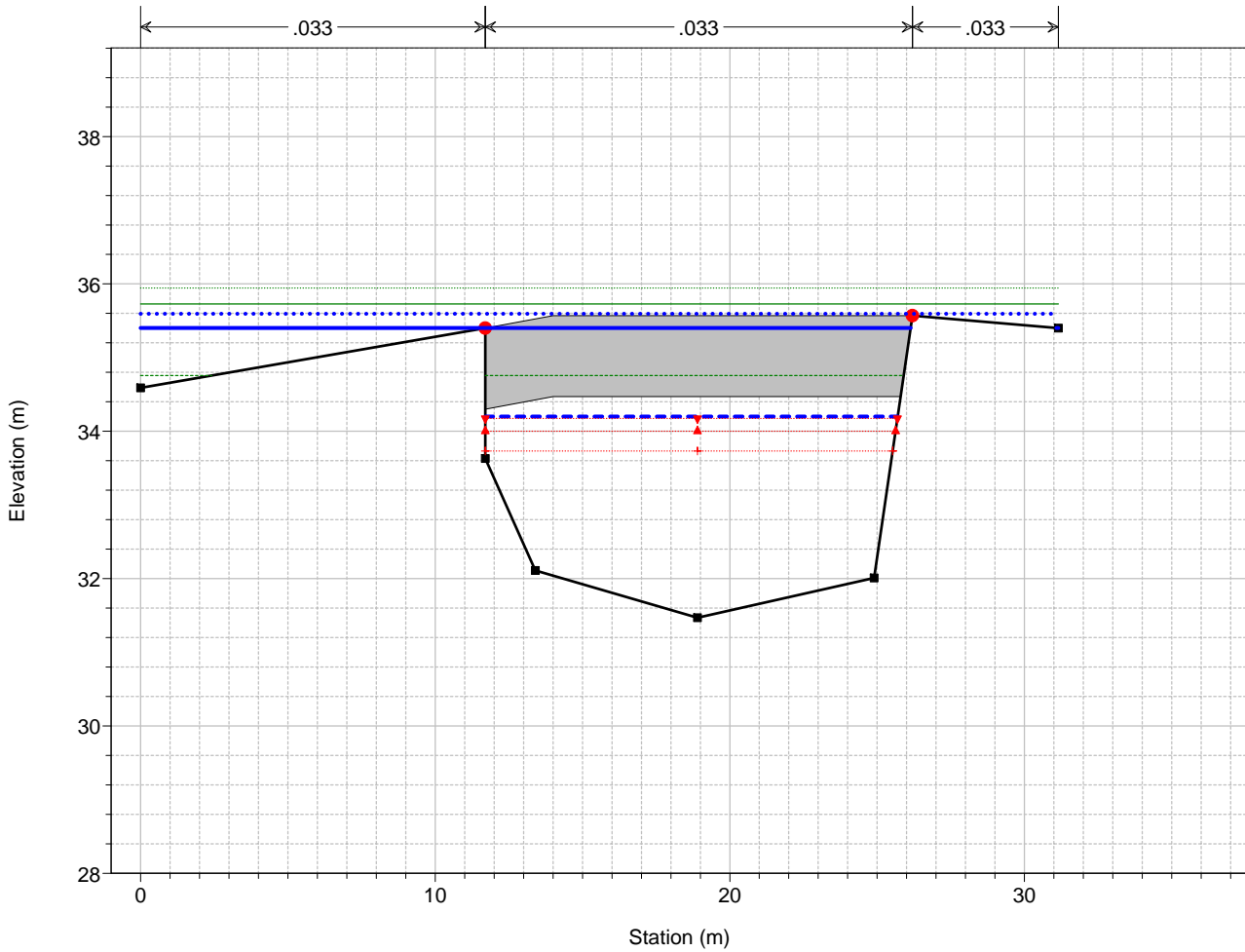


Rio Cacarello - Tratto monte

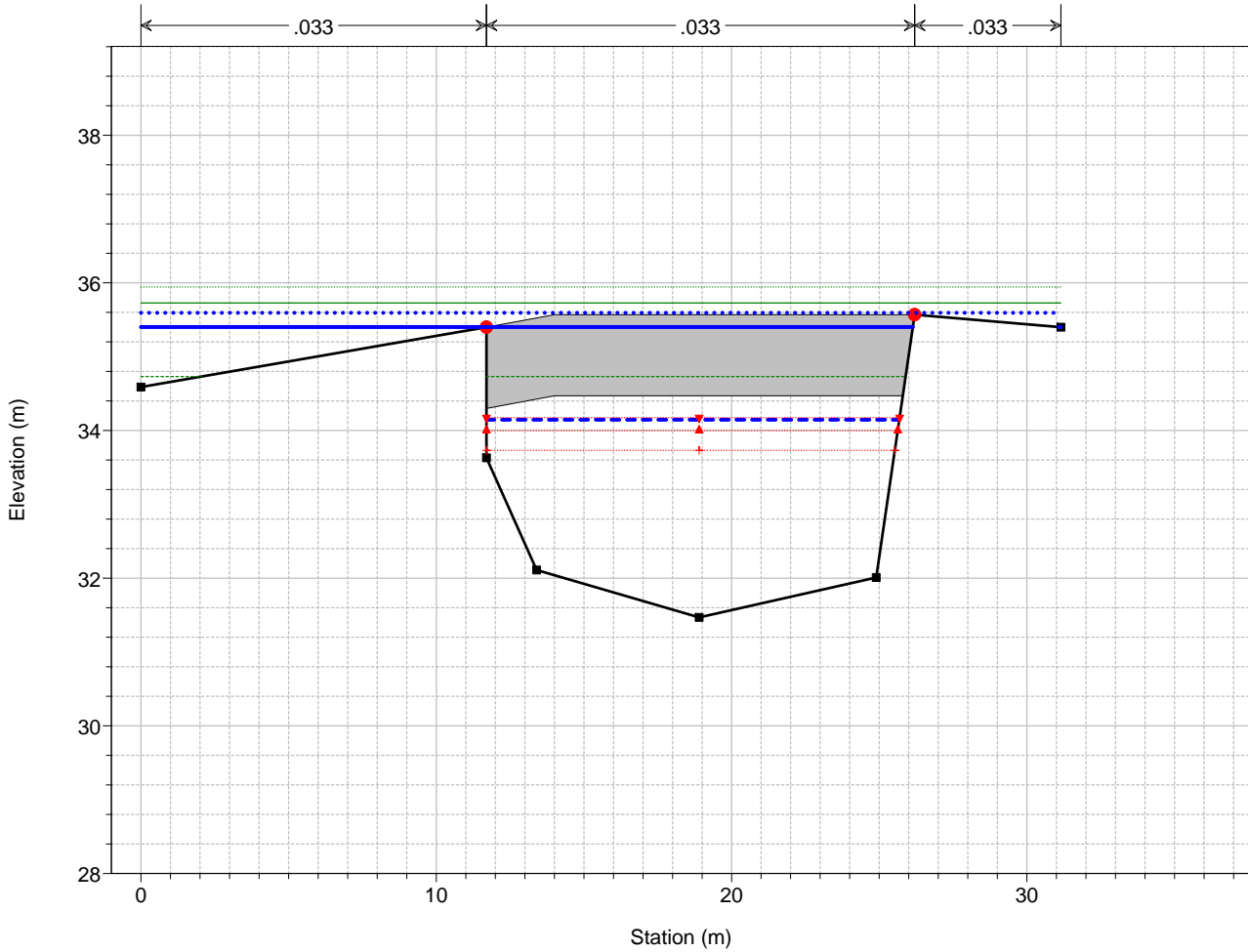


1 cm Horiz. = 7 m 1 cm Vert. = 0.6 m

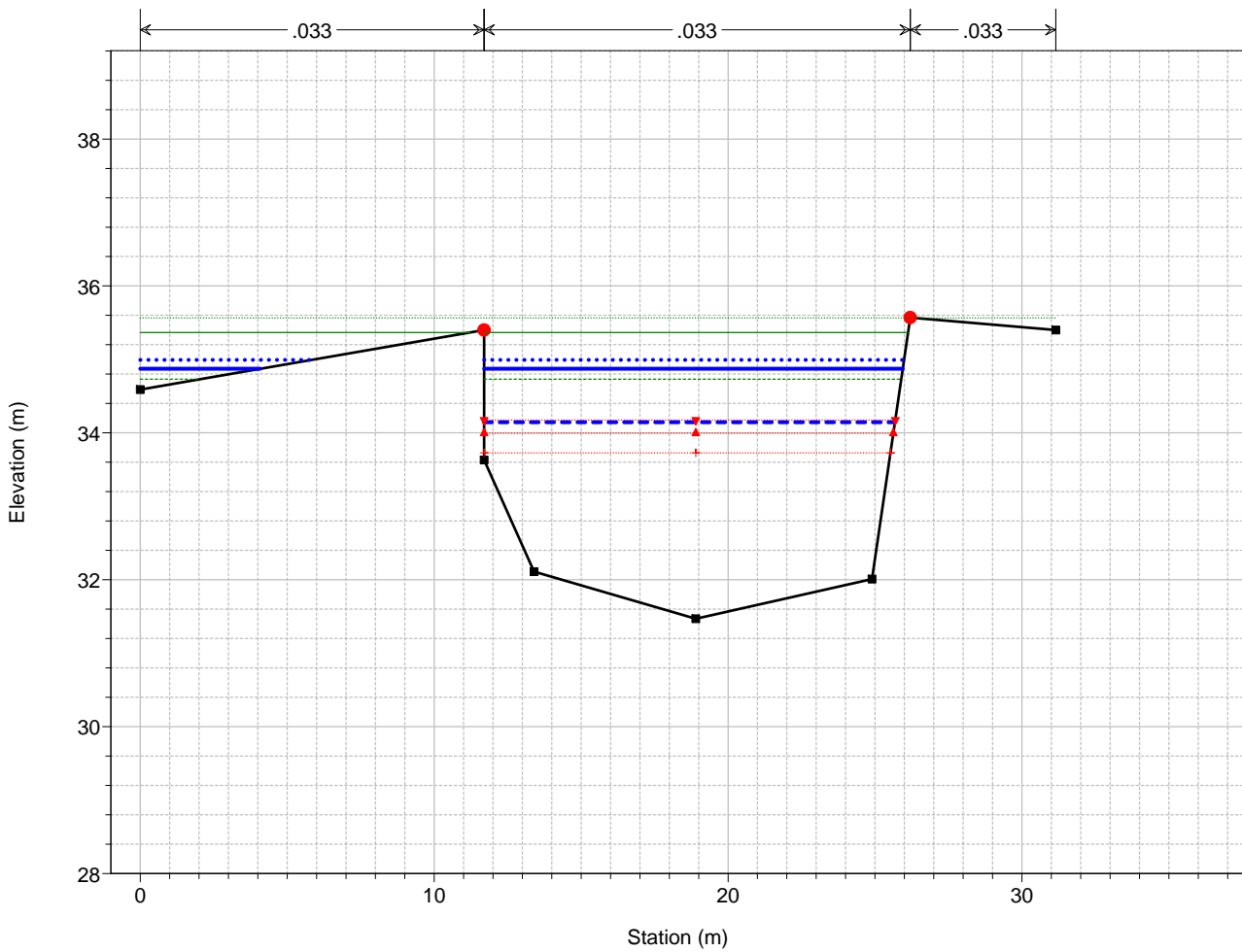
Rio Cacarello - Tratto monte
Sez. CA26



Rio Cacarello - Tratto monte
Sez. CA26

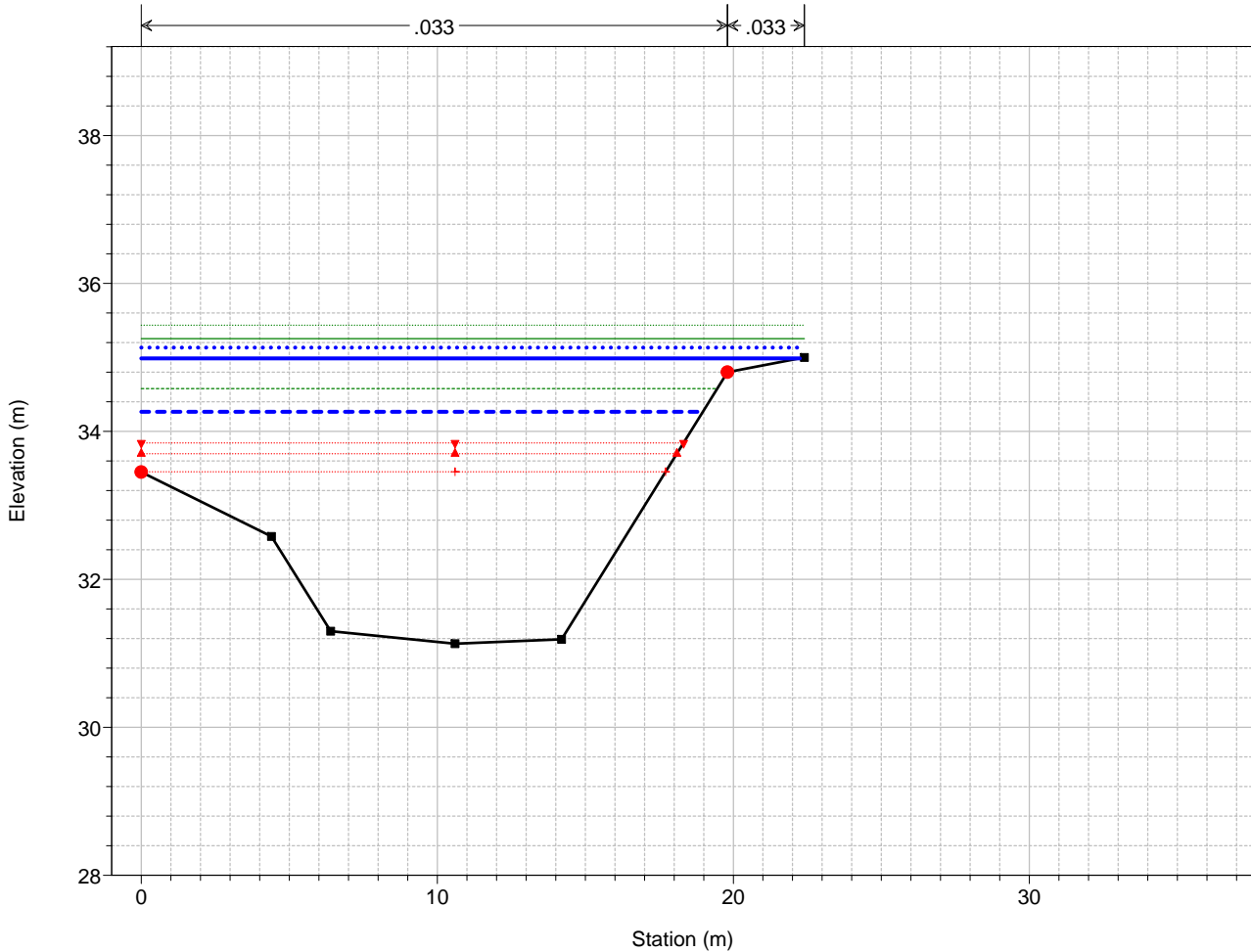


Rio Cacarello - Tratto monte



Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue solid line)
PL T=200	(Blue dashed line)
EG T=50	(Green dashed line)
Crit T=500	(Red dashed line with inverted triangles)
PL T=50	(Blue dashed line)
Crit T=200	(Red dashed line with triangles)
Crit T=50	(Red dashed line with pluses)
Fondo	(Black solid line with squares)
Sponda	(Red solid line with circles)

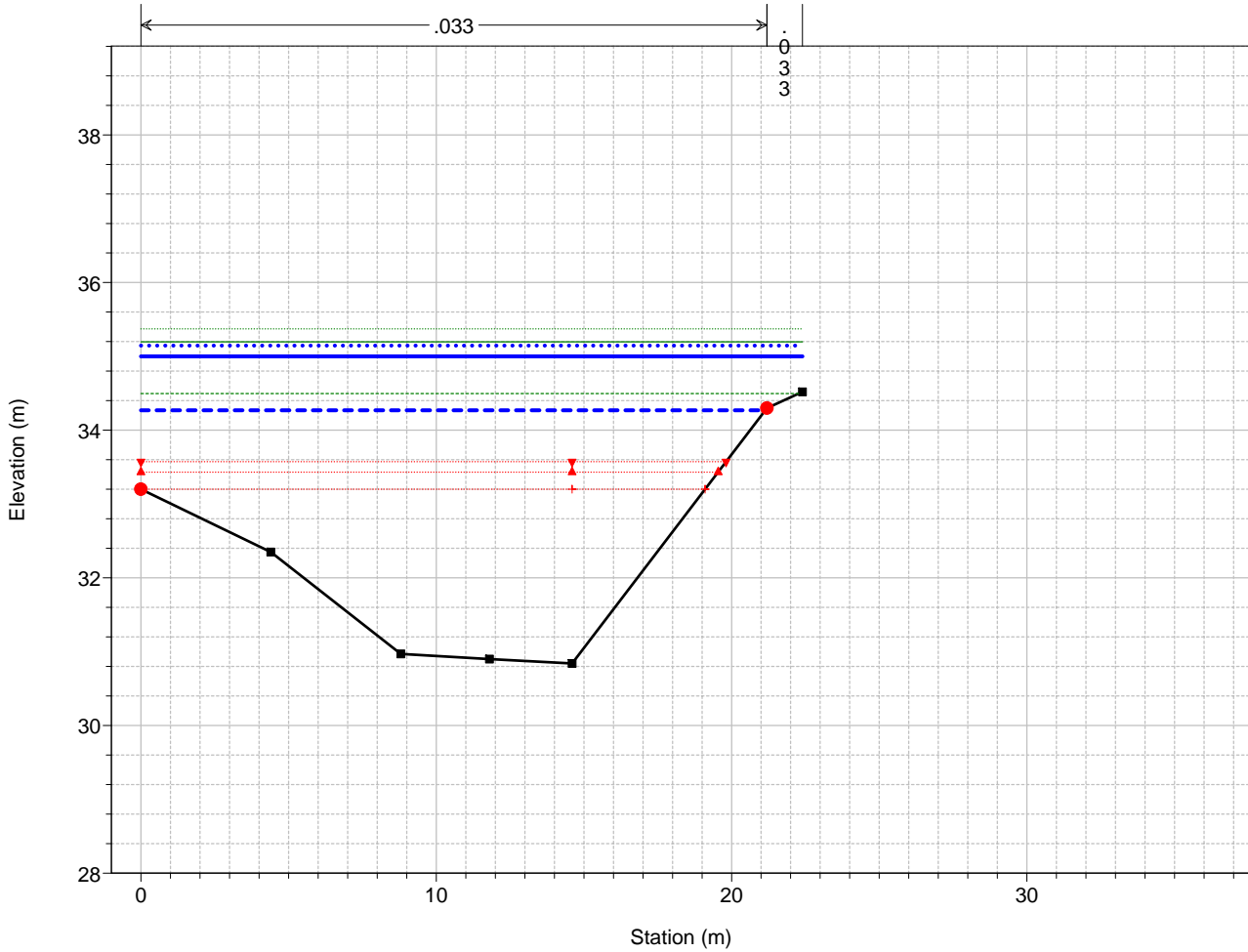
Rio Cacarello - Tratto monte Sez. CA25



Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue solid line)
PL T=200	(Blue dashed line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red dashed line with inverted triangles)
Crit T=200	(Red dashed line with triangles)
Crit T=50	(Red dashed line with pluses)
Fondo	(Black solid line with squares)
Sponda	(Red solid line with circles)

Rio Cacarello - Tratto monte

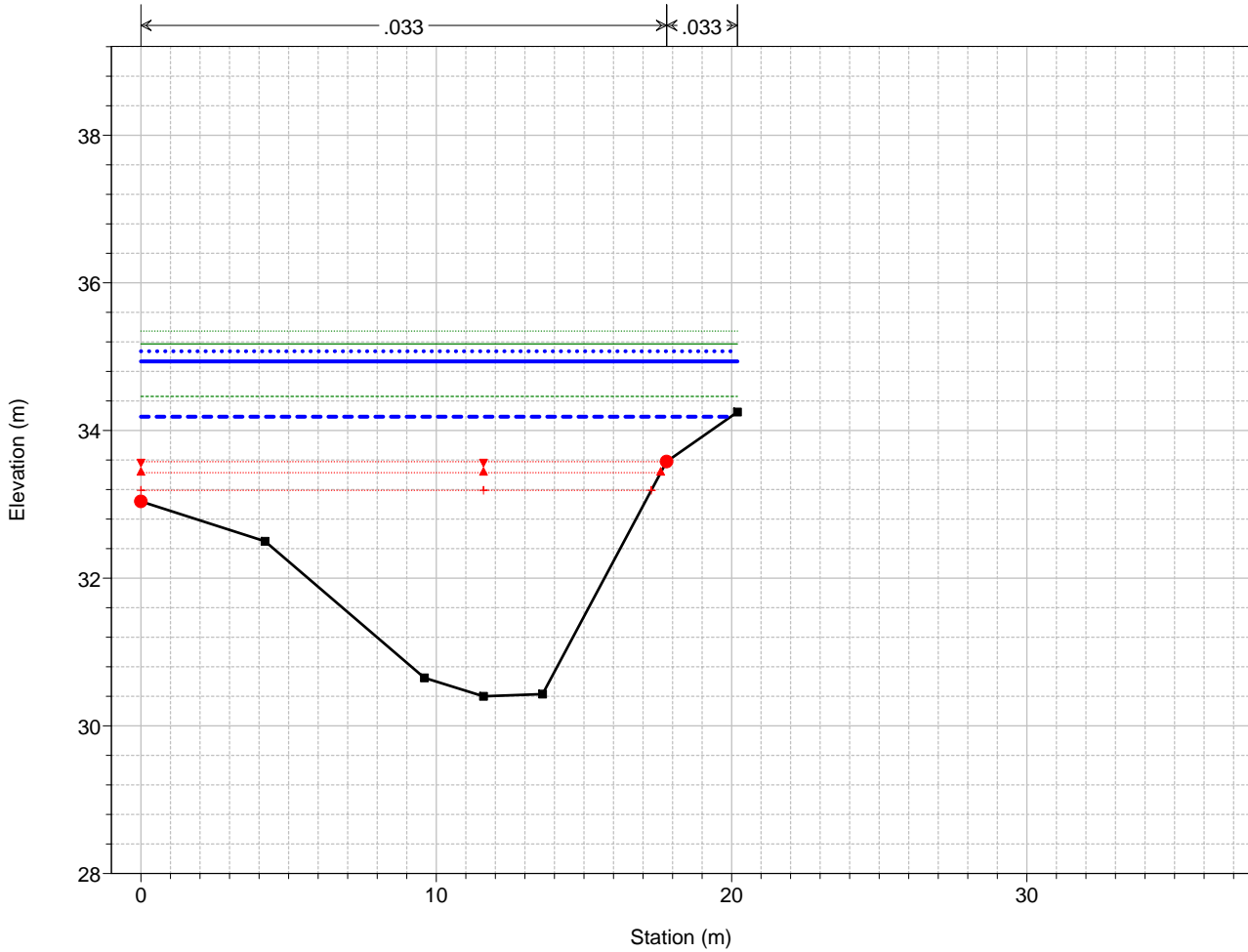
Sez. CA24



Legend	
EG T=500	(Solid Green Line)
EG T=200	(Dotted Green Line)
PL T=500	(Dotted Blue Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Red Triangle Down)
Crit T=200	(Red Triangle Up)
Crit T=50	(Red Triangle Up)
Fondo	(Black Line with Square)
Sponda	(Red Line with Circle)

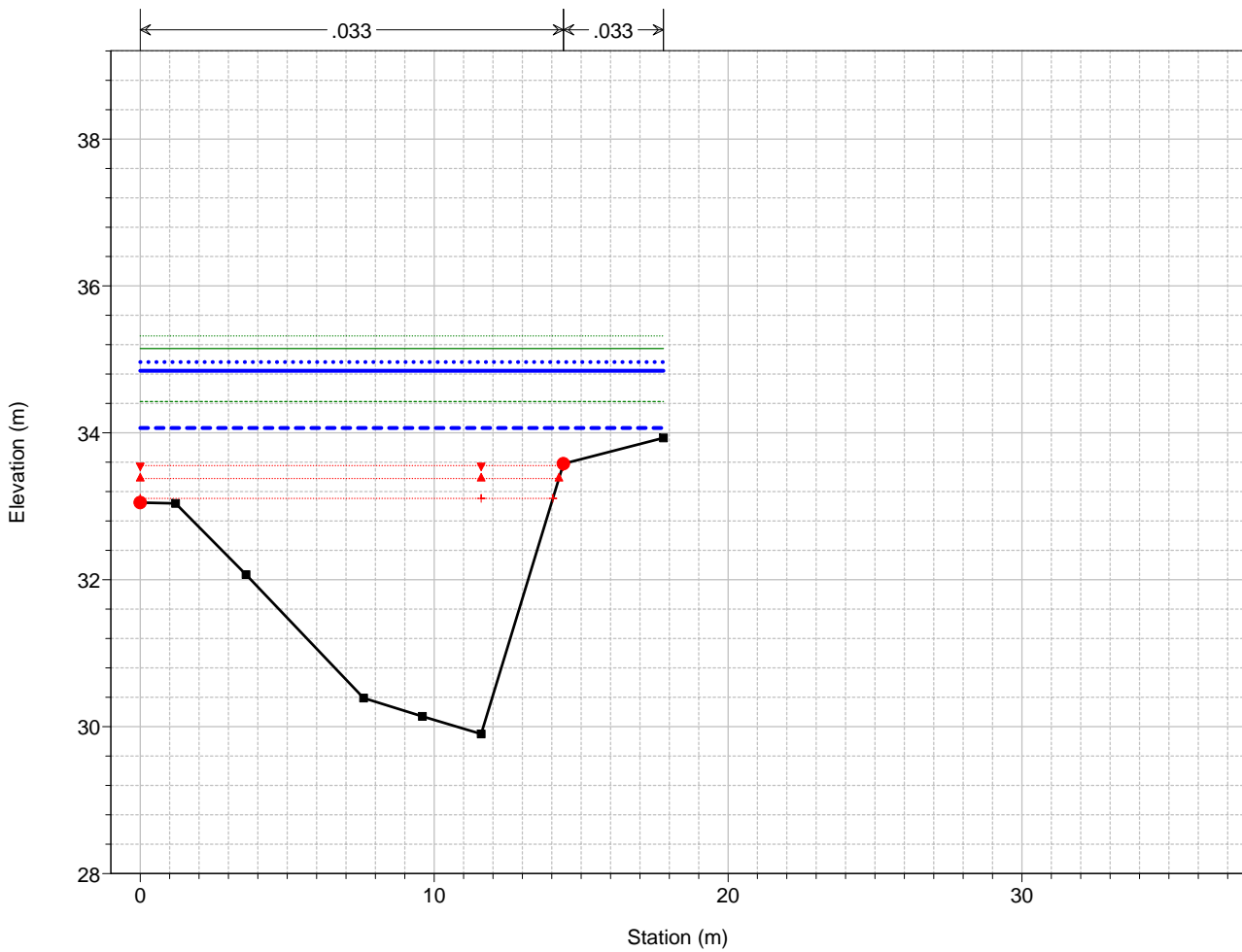
Rio Cacarello - Tratto monte

Sez. CA23



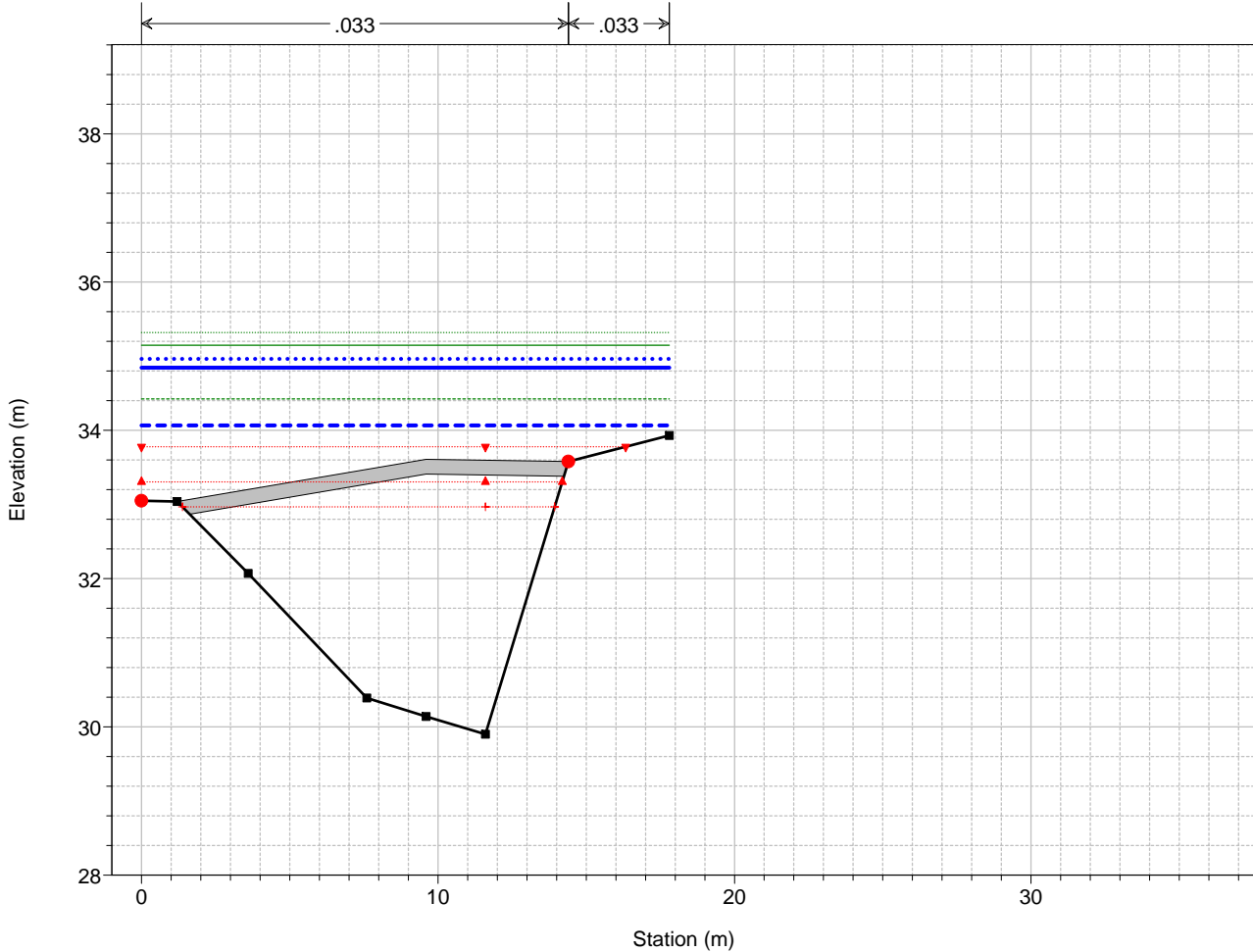
Legend	
EG T=500	(Solid Green Line)
EG T=200	(Dotted Green Line)
PL T=500	(Dotted Blue Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Red Triangle Down)
Crit T=200	(Red Triangle Up)
Crit T=50	(Red Triangle Up)
Fondo	(Black Line with Square)
Sponda	(Red Line with Circle)

Rio Cacarello - Tratto monte



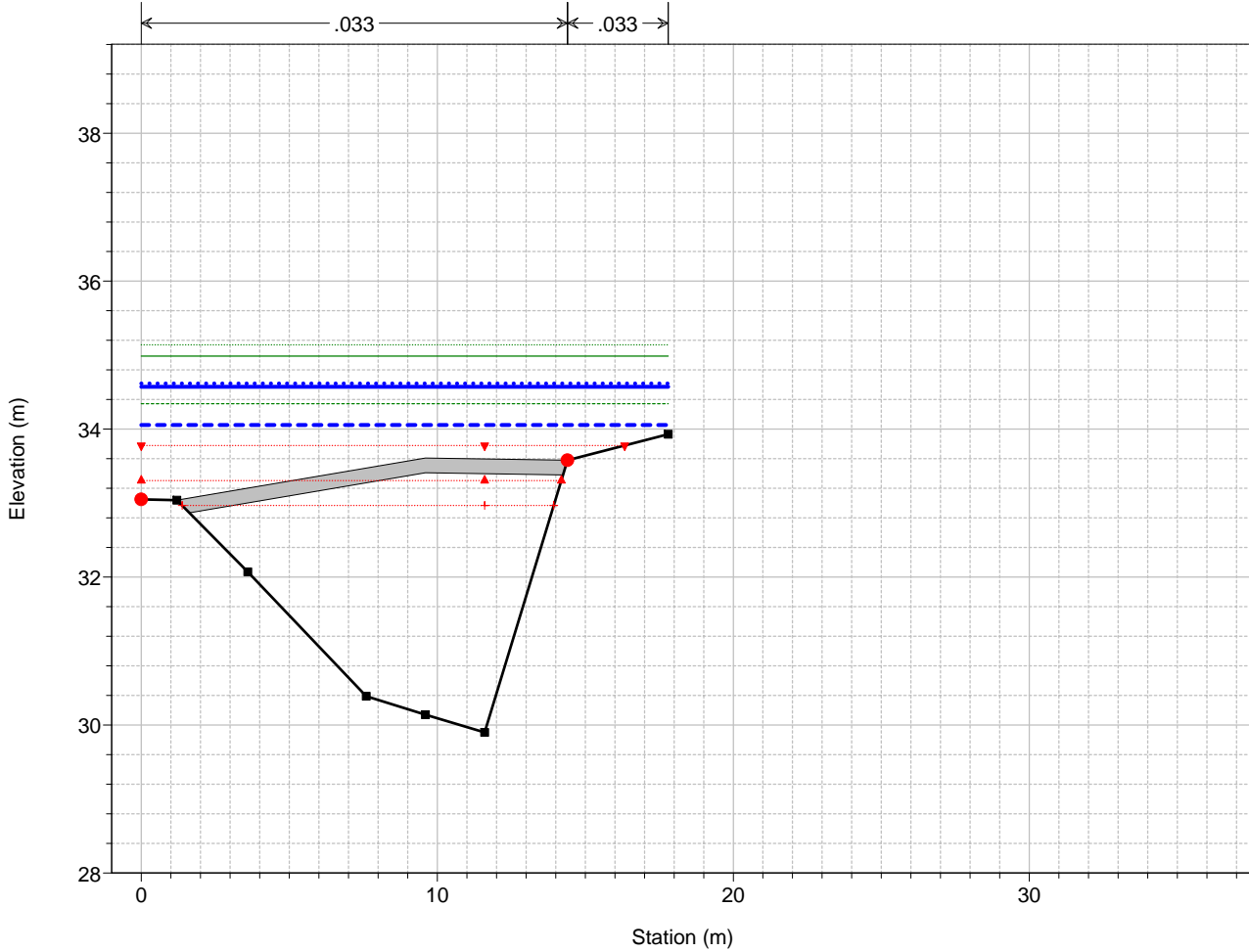
Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Dotted Blue Line)
PL T=500	(Dotted Blue Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Red Inverted Triangle)
Crit T=200	(Red Upright Triangle)
Crit T=50	(Red Plus)
Fondo	(Black Line with Square Markers)
Sponda	(Red Circle)

Rio Cacarello - Tratto monte Sez. CA22



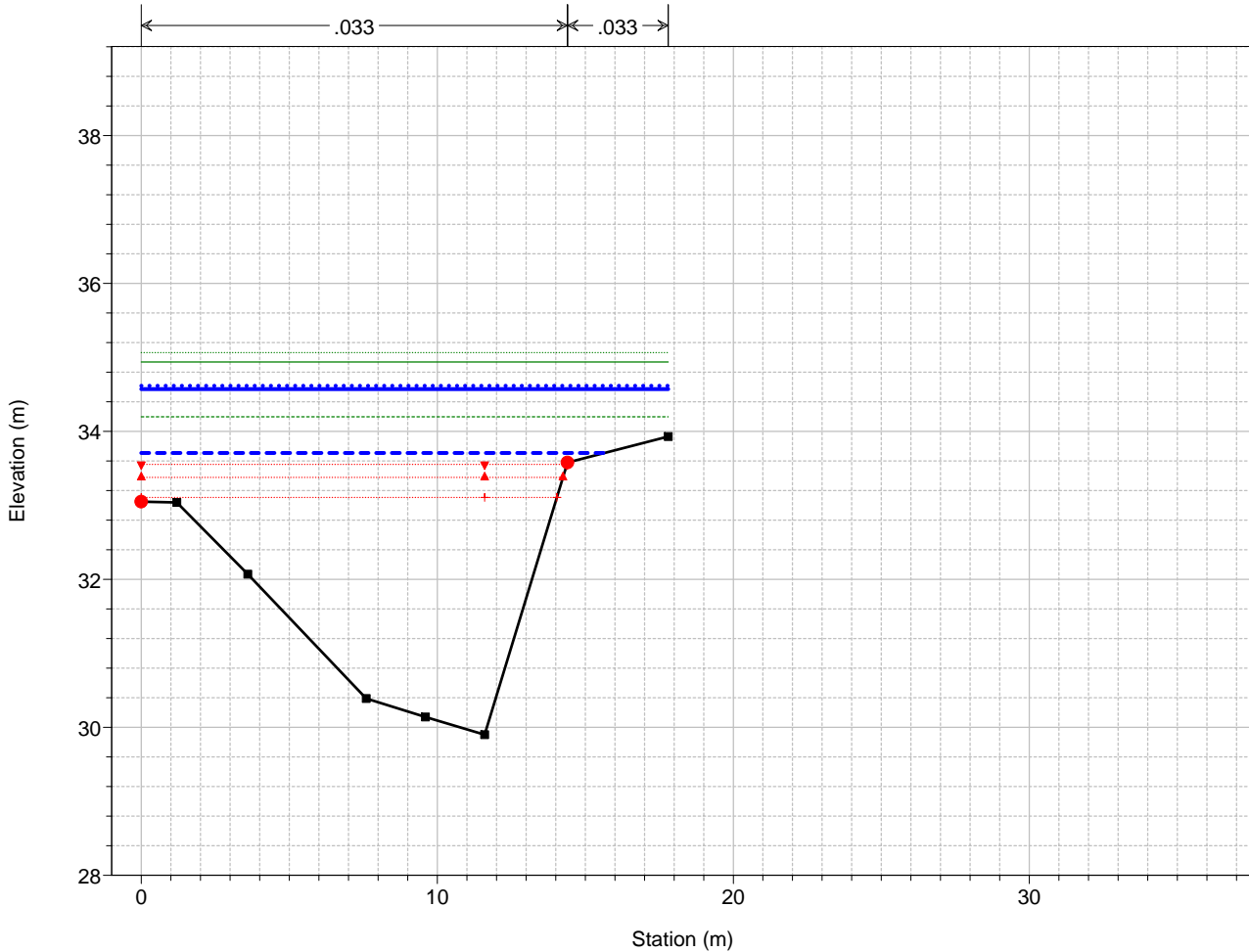
Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Dotted Blue Line)
PL T=500	(Dotted Blue Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Red Inverted Triangle)
Crit T=200	(Red Upright Triangle)
Crit T=50	(Red Plus)
Fondo	(Black Line with Square Markers)
Sponda	(Red Circle)

Rio Cacarello - Tratto monte
Sez. CA22



Legend	
EG T=500	(Green dotted line)
EG T=200	(Green dashed line)
PL T=500	(Blue dotted line)
PL T=200	(Blue dashed line)
EG T=50	(Green dash-dot line)
PL T=50	(Blue dash-dot line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red cross)
Fondo	(Black square)
Sponda	(Red circle)

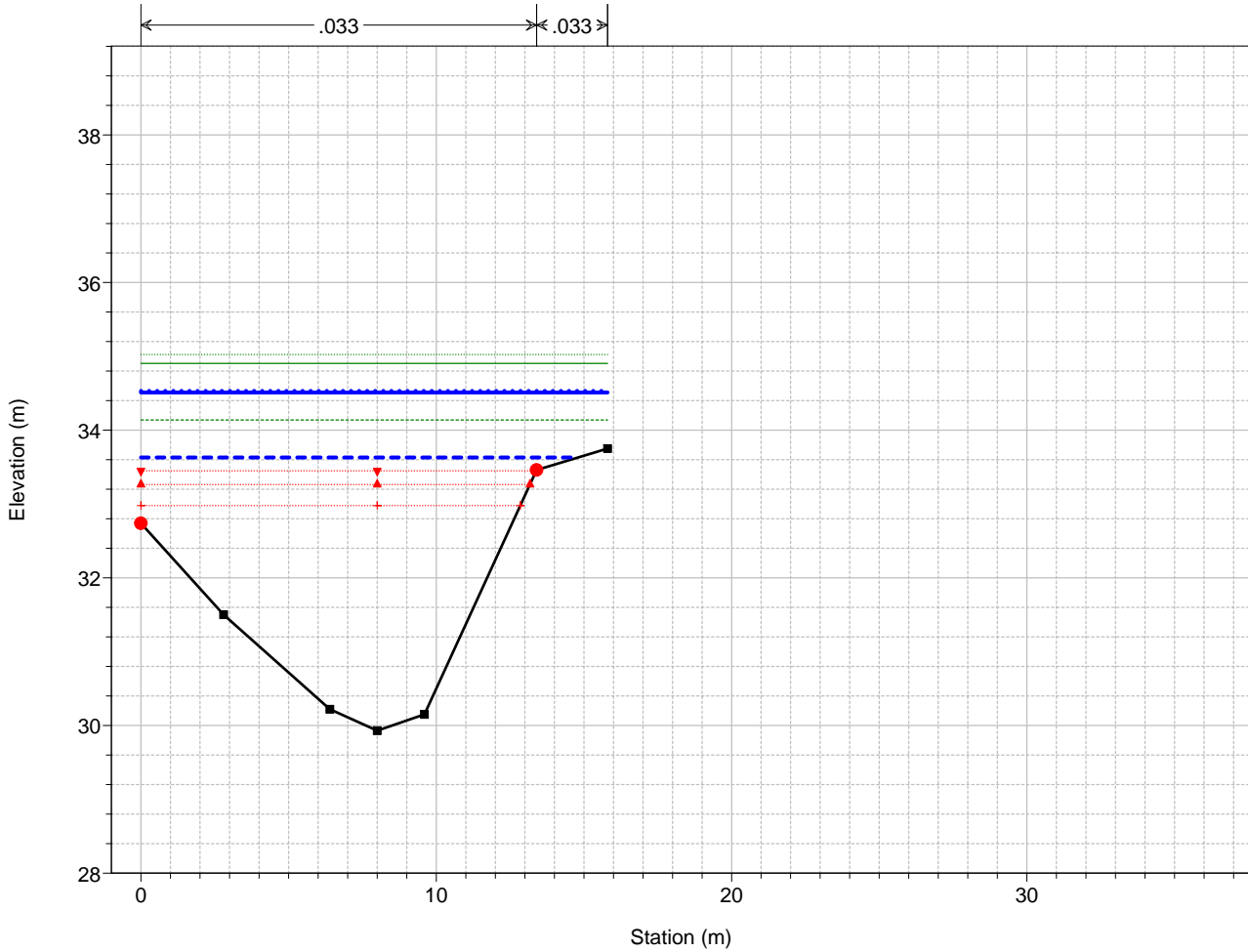
Rio Cacarello - Tratto monte



Legend	
EG T=500	(Green dotted line)
EG T=200	(Green dashed line)
PL T=500	(Blue dotted line)
PL T=200	(Blue dashed line)
EG T=50	(Green dash-dot line)
PL T=50	(Blue dash-dot line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red cross)
Fondo	(Black square)
Sponda	(Red circle)

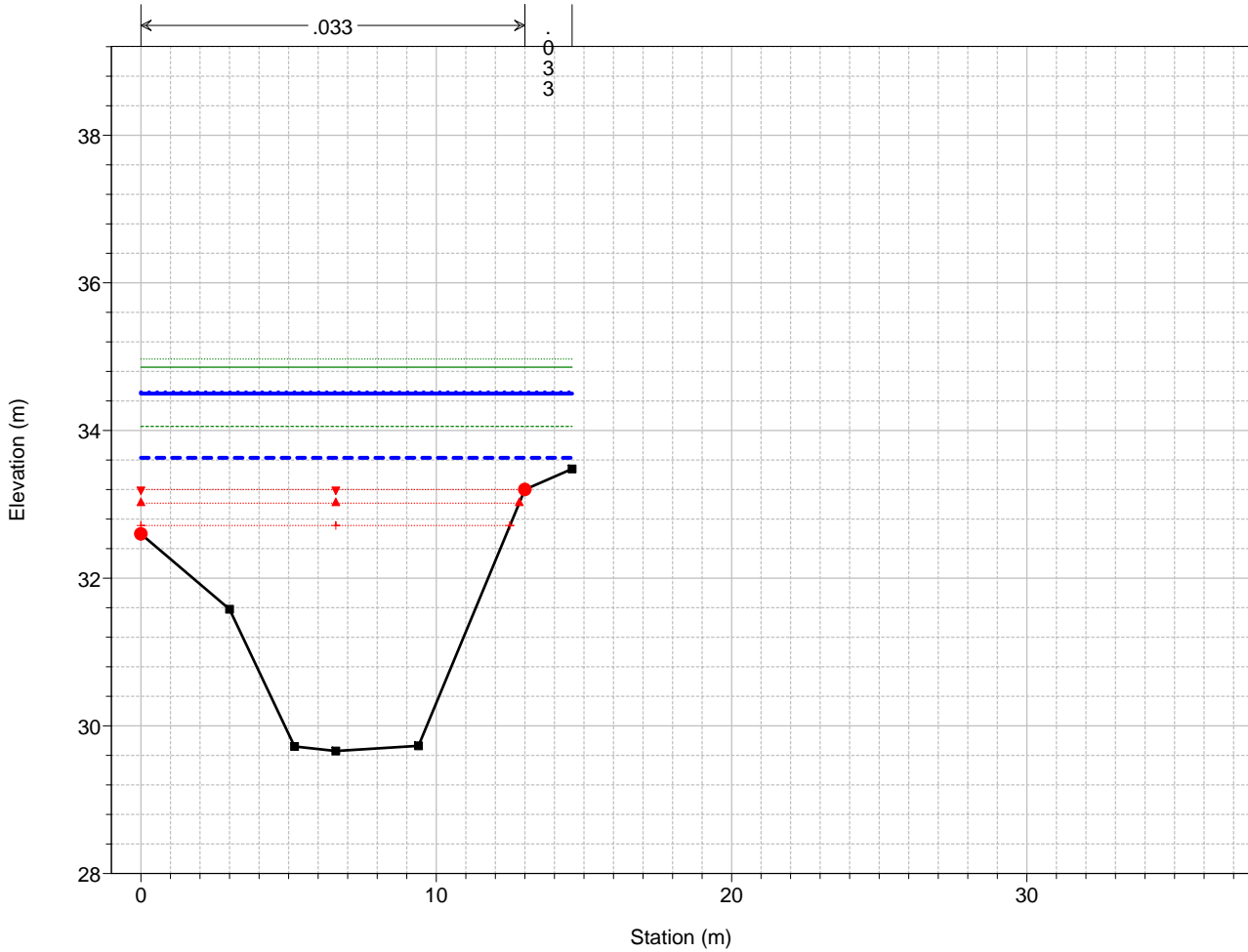
1 cm Horiz. = 2.5 m 1 cm Vert. = 1 m

Rio Cacarello - Tratto monte
Sez. CA21



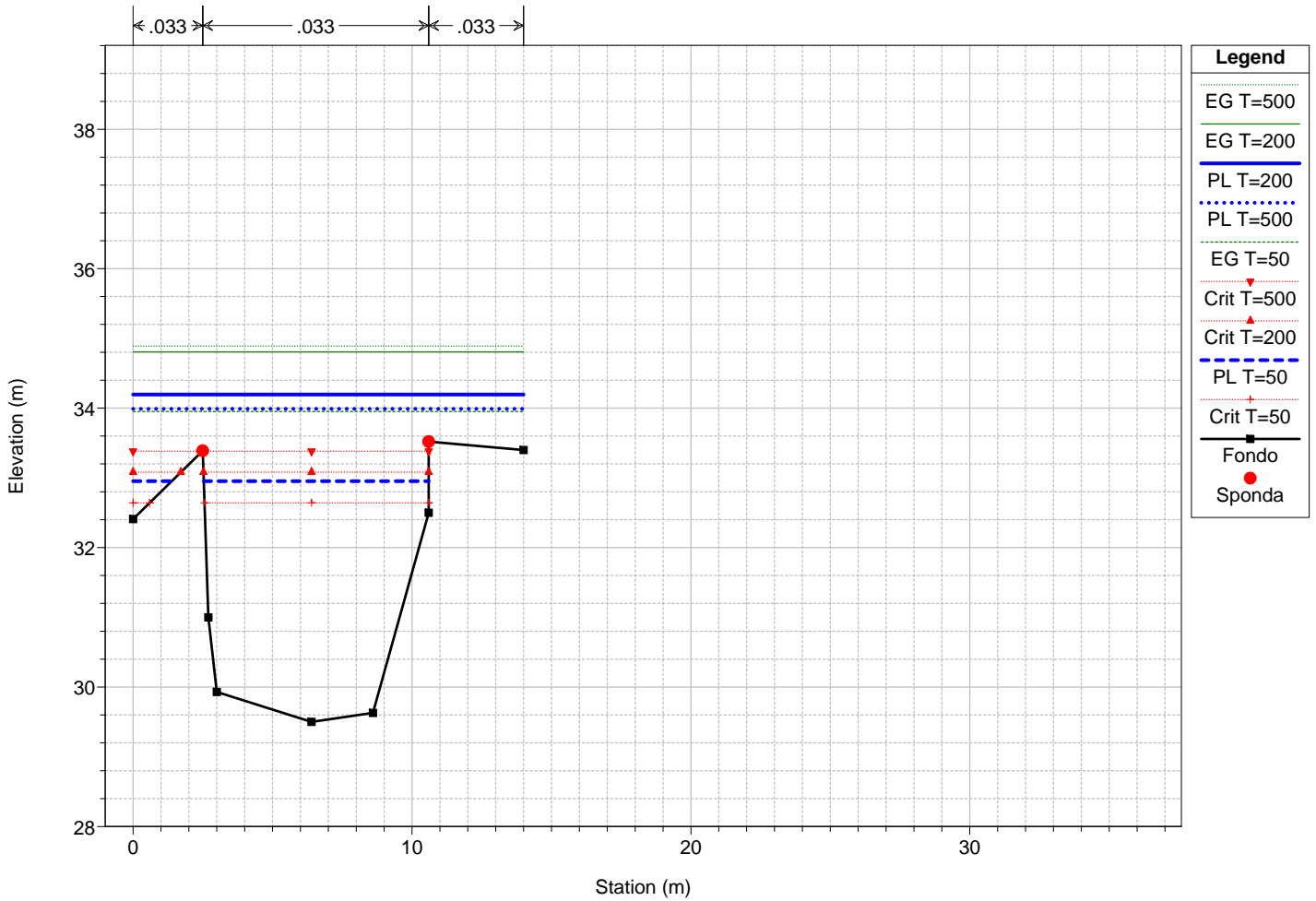
Legend	
EG T=500	— (green dotted)
EG T=200	— (green solid)
PL T=500	— (blue dotted)
PL T=200	— (blue solid)
EG T=50	— (green dashed)
PL T=50	— (blue dashed)
Crit T=500	▼ (red inverted triangle)
Crit T=200	▲ (red triangle)
Crit T=50	+ (red cross)
Fondo	■ (black square)
Sponda	● (red circle)

Rio Cacarello - Tratto monte
Sez. CA20

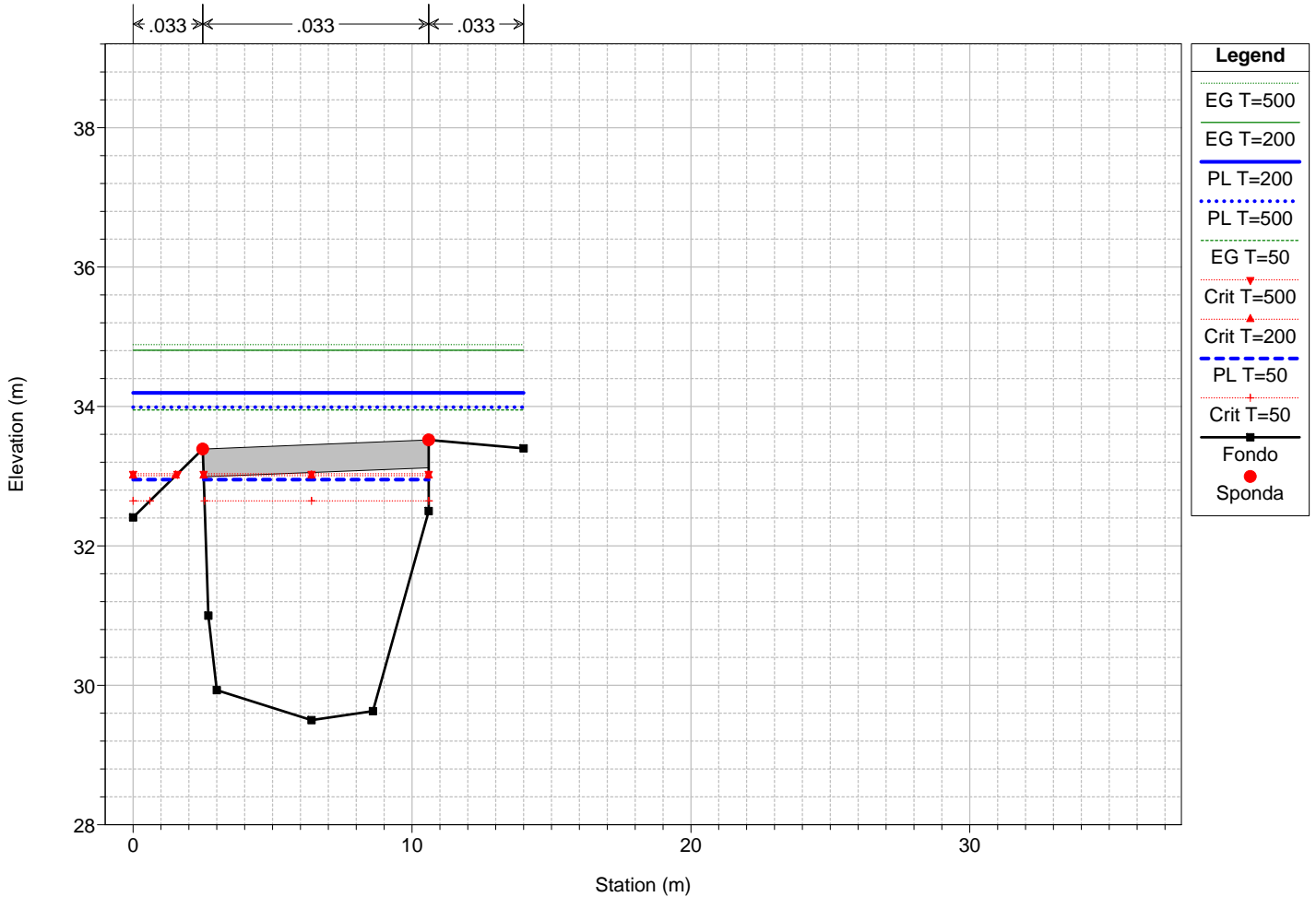


Legend	
EG T=500	— (green dotted)
EG T=200	— (green solid)
PL T=500	— (blue dotted)
PL T=200	— (blue solid)
EG T=50	— (green dashed)
PL T=50	— (blue dashed)
Crit T=500	▼ (red inverted triangle)
Crit T=200	▲ (red triangle)
Crit T=50	+ (red cross)
Fondo	■ (black square)
Sponda	● (red circle)

Rio Cacarello - Tratto monte

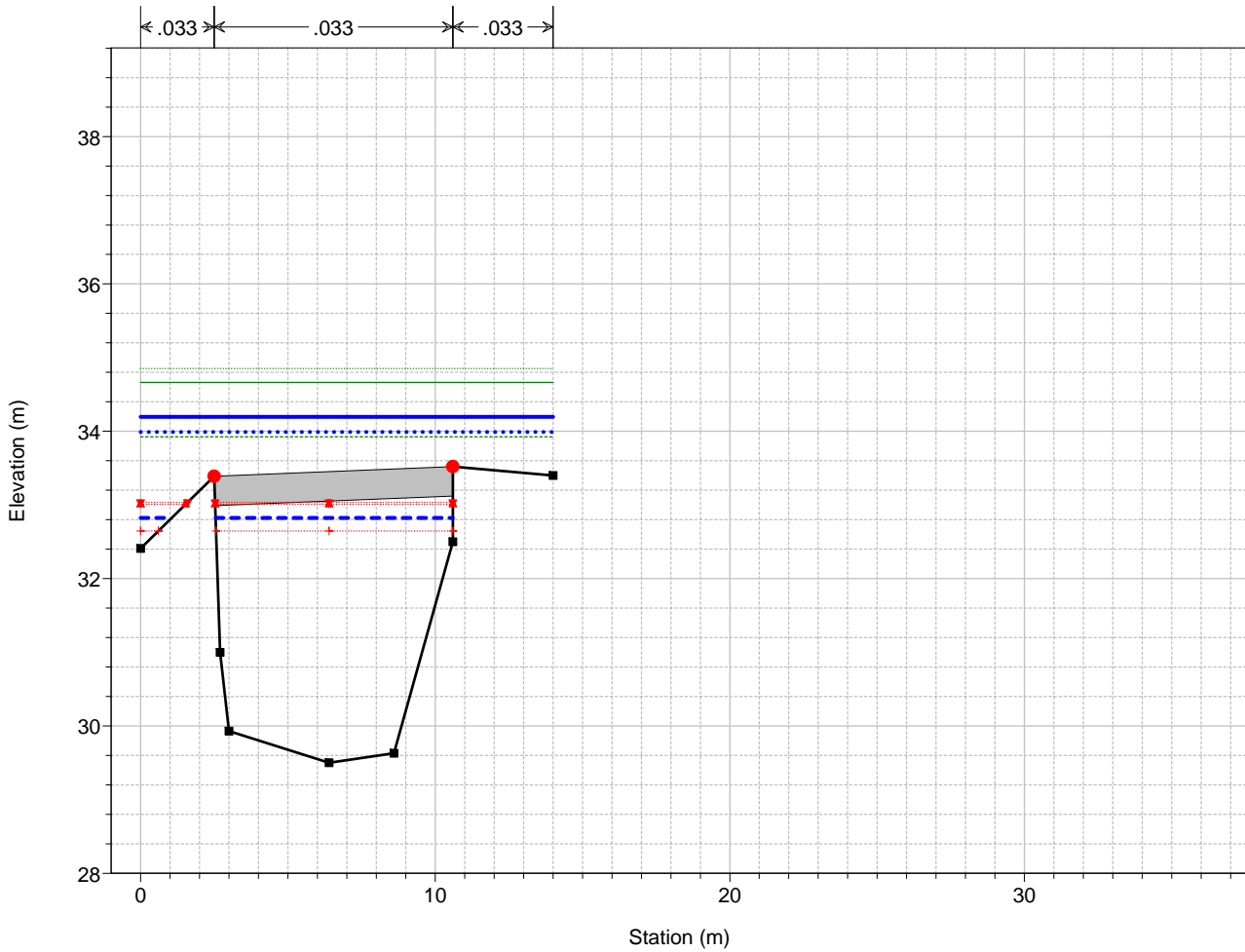


Rio Cacarello - Tratto monte Sez. CA19

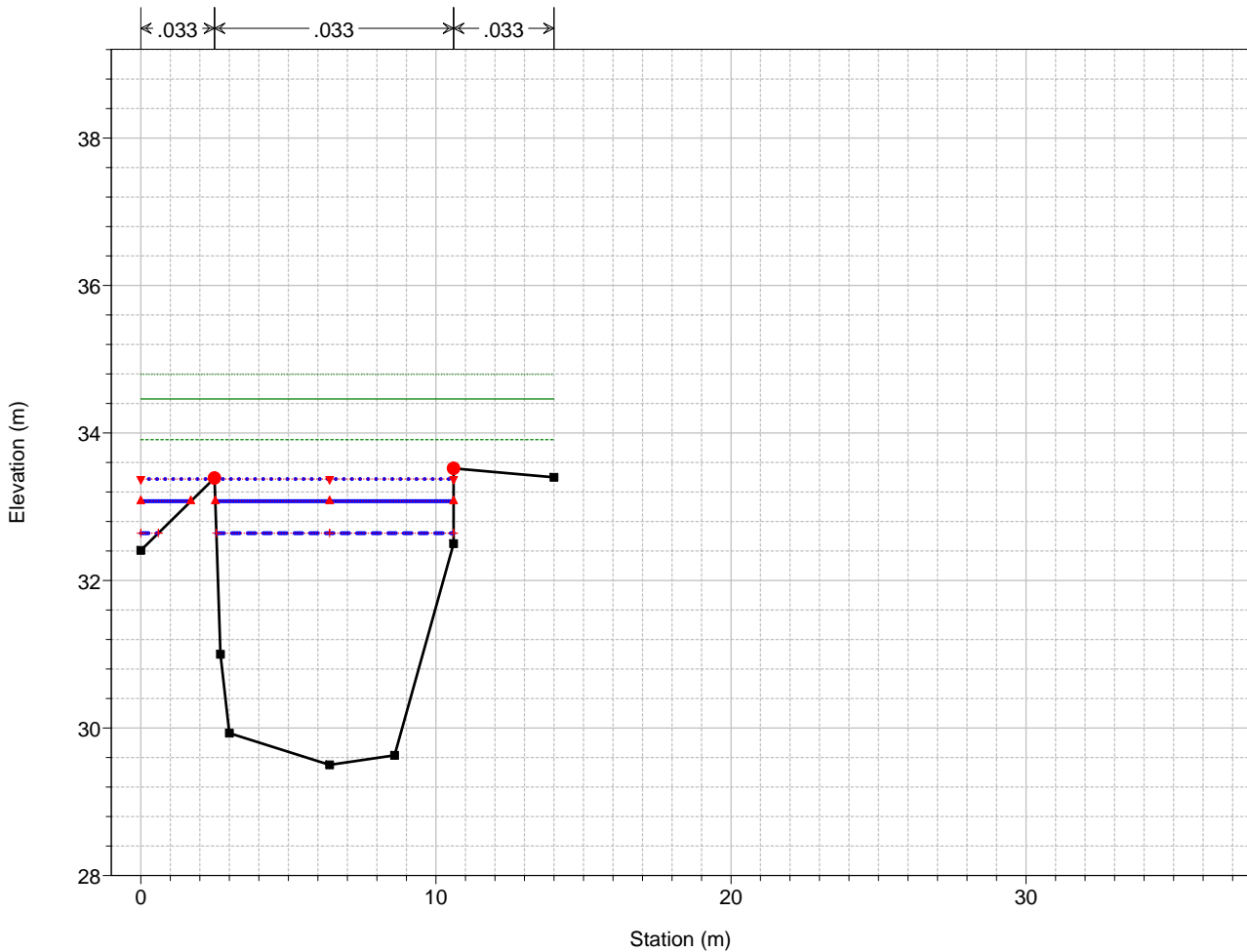


1 cm Horiz. = 2.5 m 1 cm Vert. = 1 m

Rio Cacarello - Tratto monte
Sez. CA19

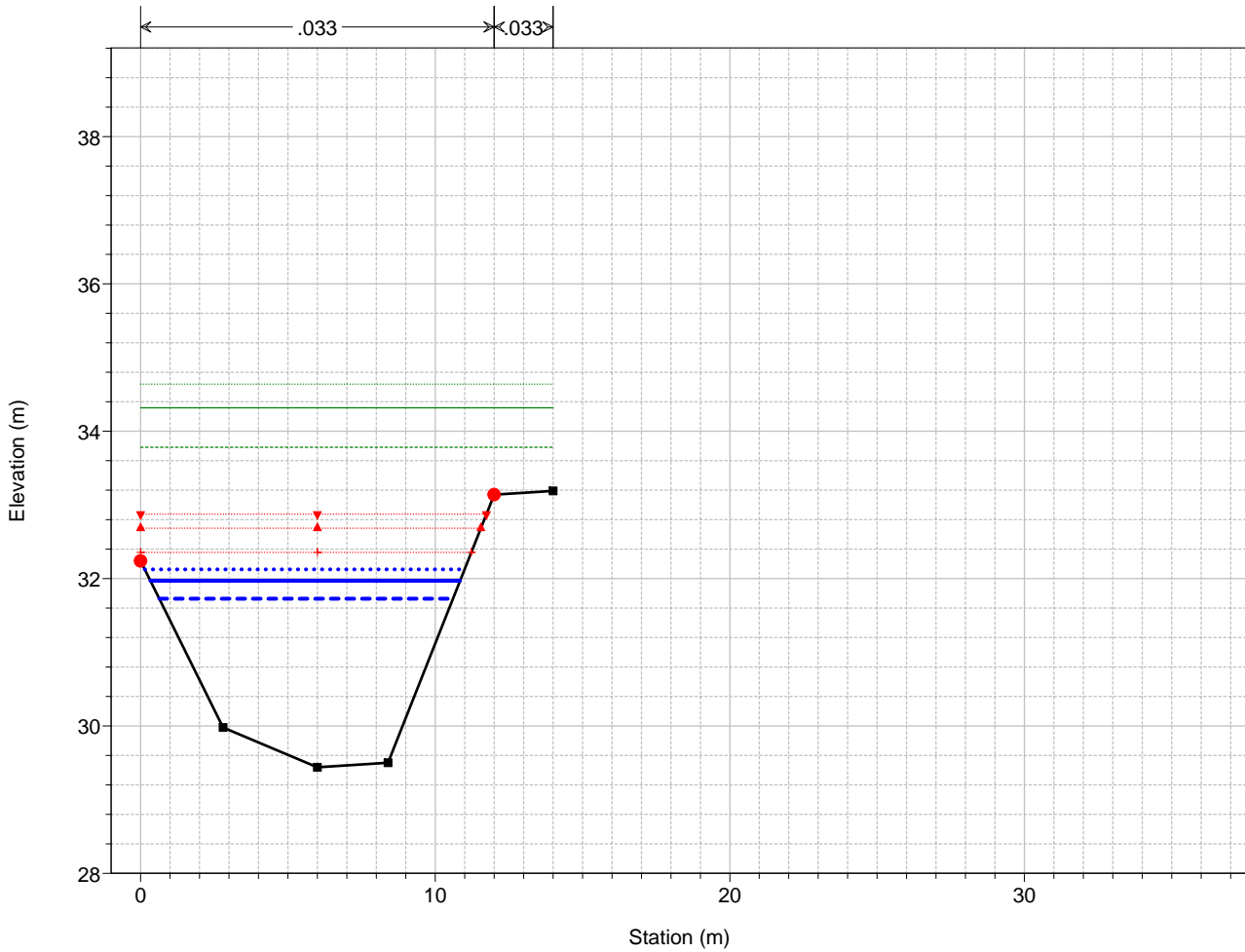


Rio Cacarello - Tratto monte



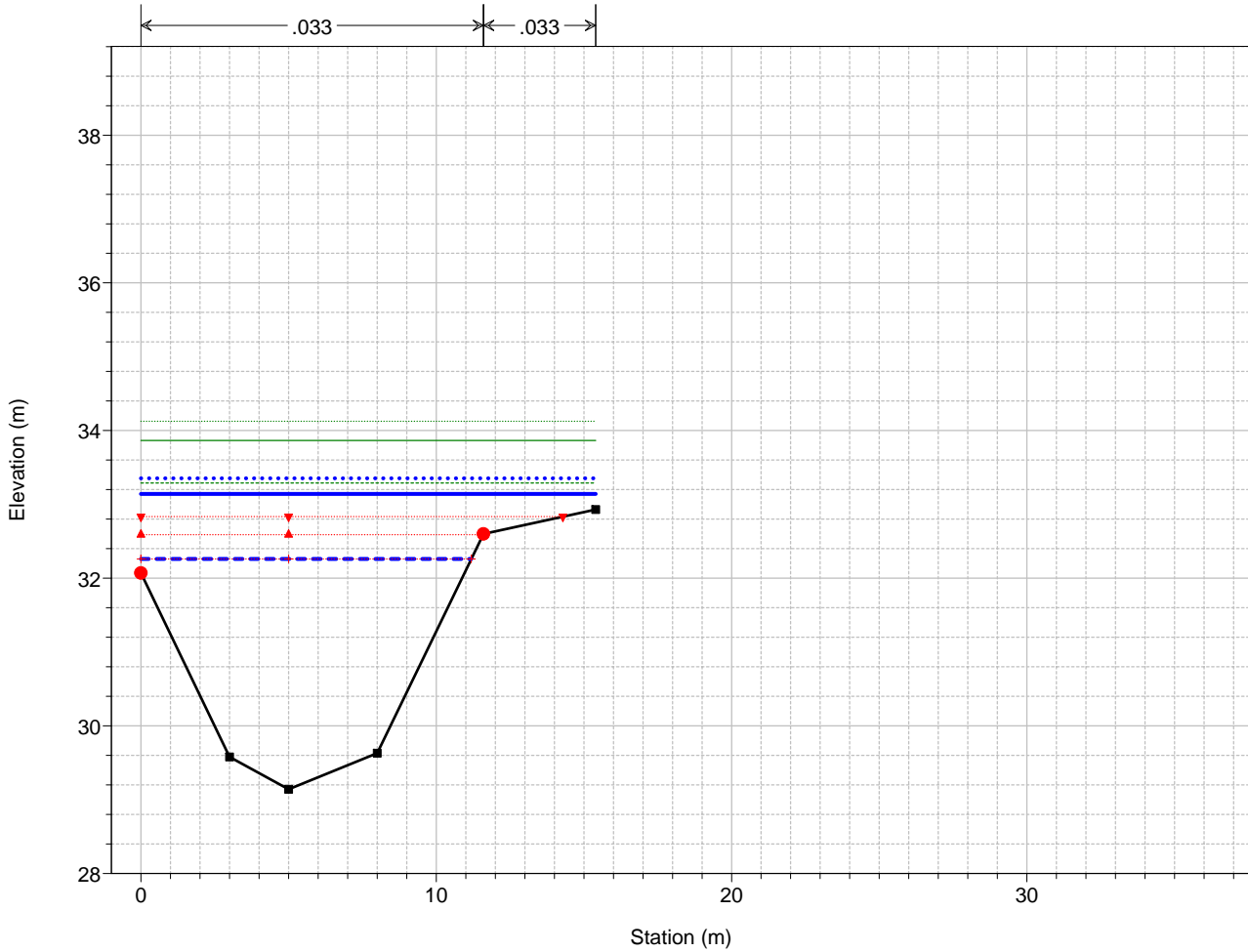
1 cm Horiz. = 2.5 m 1 cm Vert. = 1 m

Rio Cacarello - Tratto monte
Sez. CA18



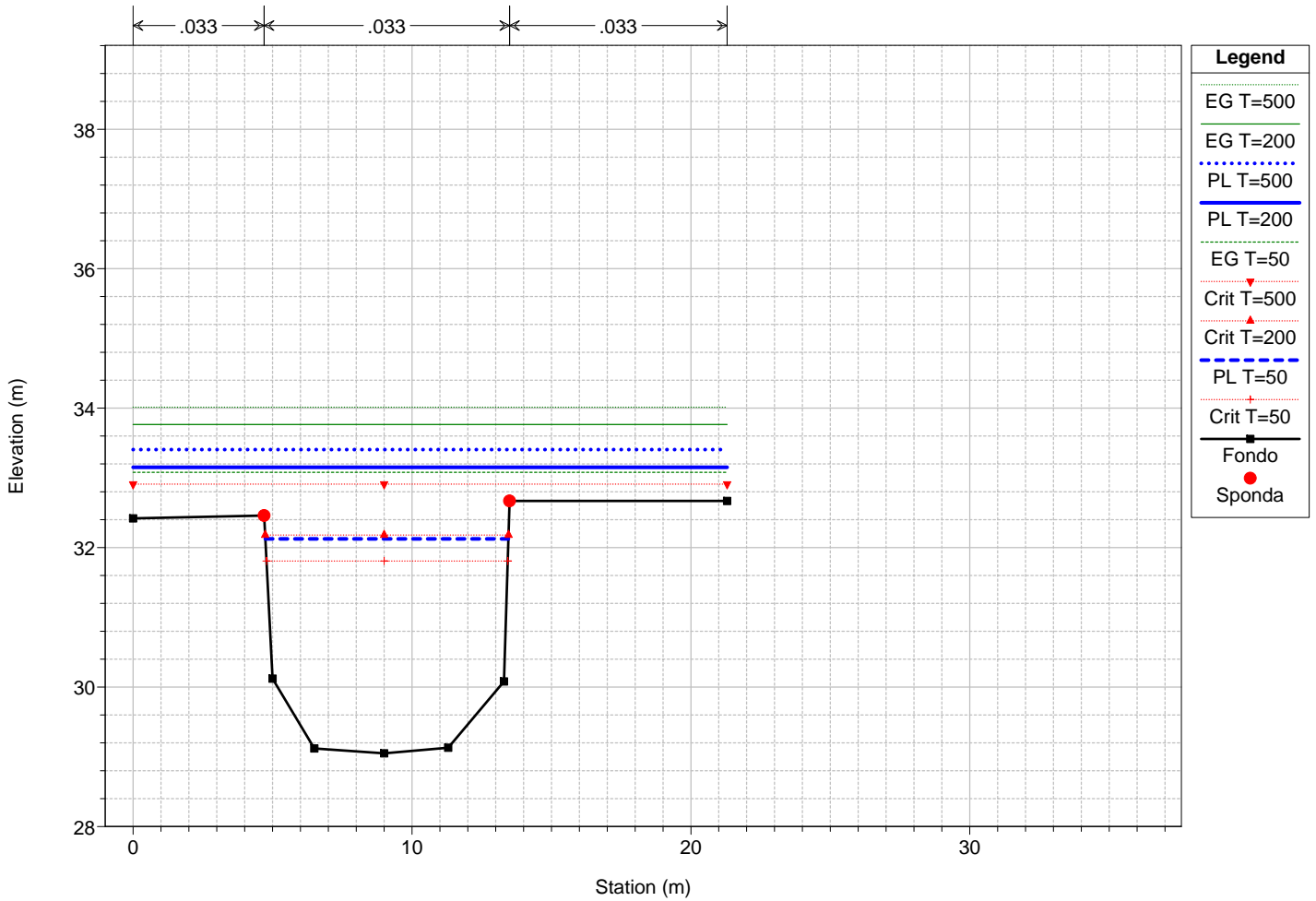
Legend	
EG T=500	(Green dotted line)
EG T=200	(Green solid line)
EG T=50	(Green dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
PL T=50	(Blue dashed line)
Fondo	(Black line with square markers)
Sponda	(Red circle)

Rio Cacarello - Tratto monte
Sez. CA17

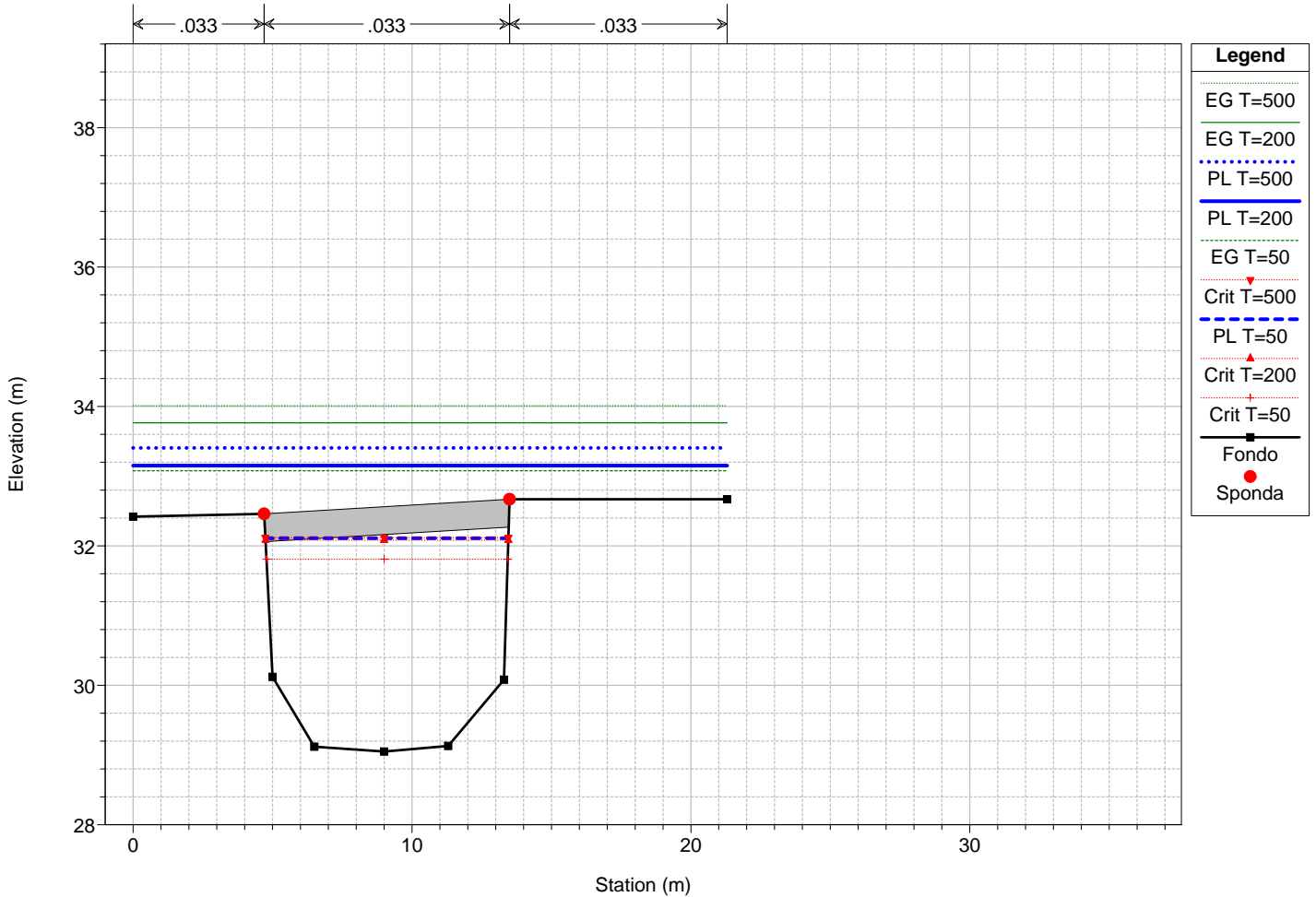


Legend	
EG T=500	(Green dotted line)
EG T=200	(Green solid line)
EG T=50	(Green dashed line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black line with square markers)
Sponda	(Red circle)

Rio Cacarello - Tratto monte

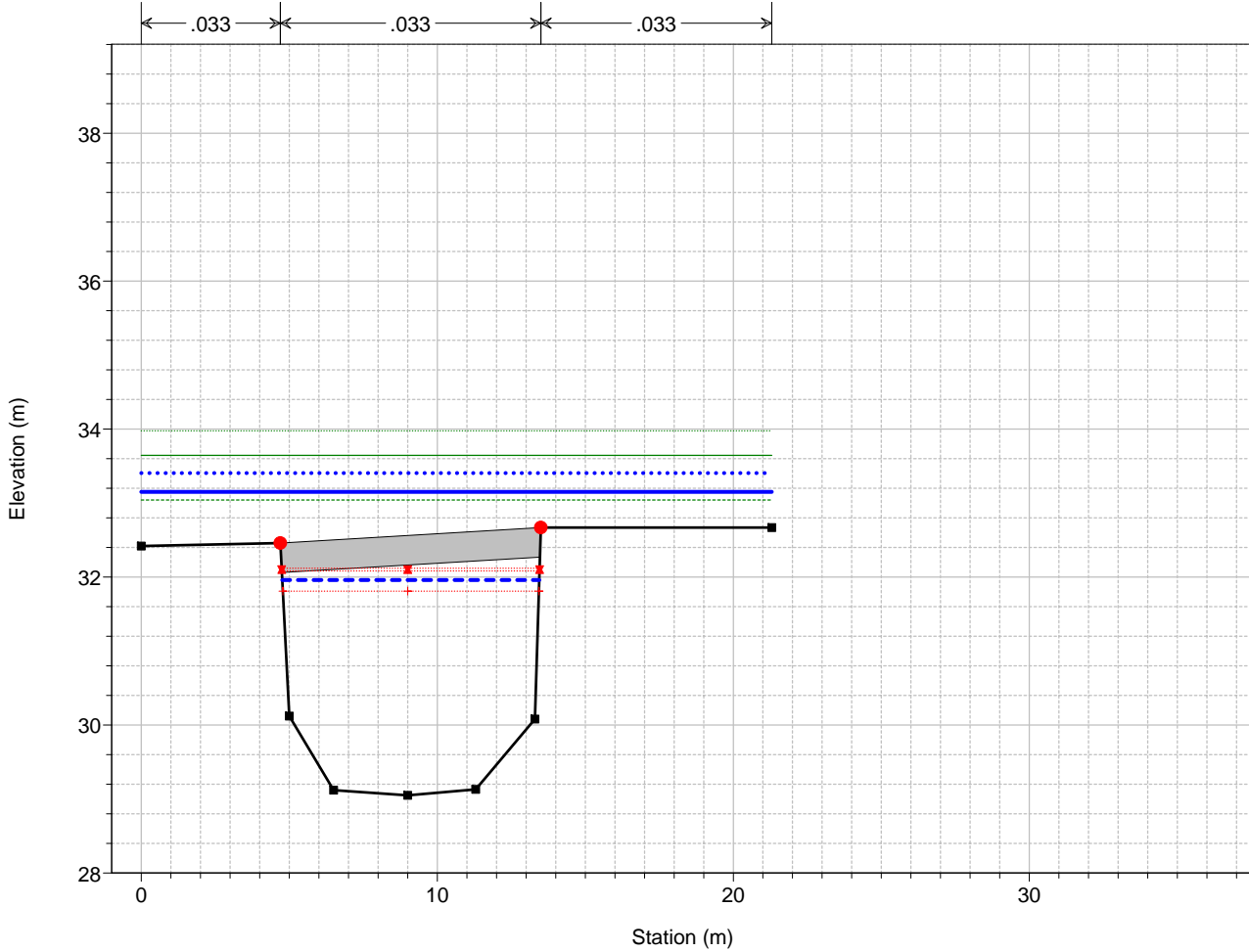


Rio Cacarello - Tratto monte Sez. CA16



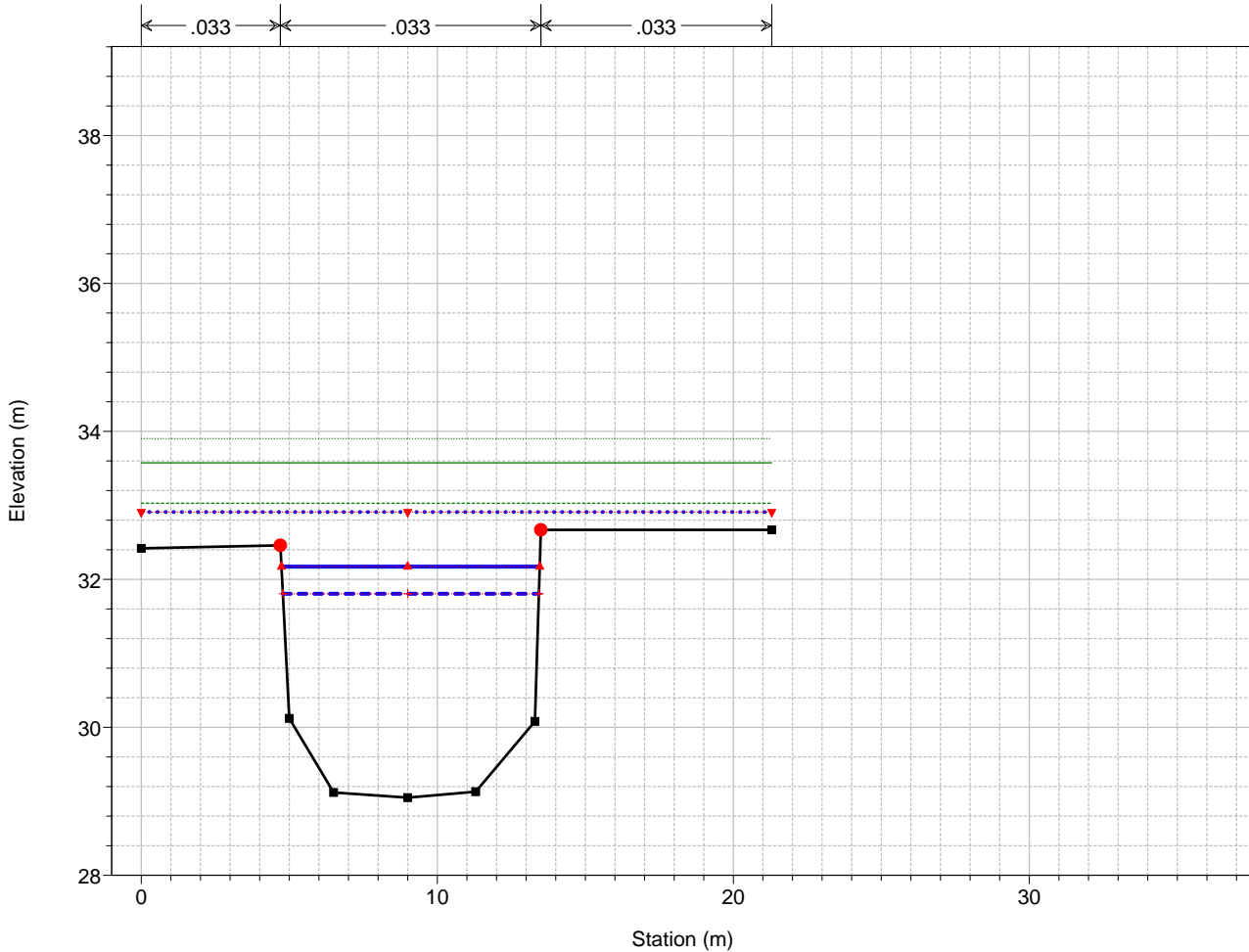
1 cm Horiz. = 2.5 m 1 cm Vert. = 1 m

Rio Cacarello - Tratto monte
Sez. CA16



Legend	
EG T=500	Green dotted line
EG T=200	Blue dotted line
PL T=500	Blue dotted line
PL T=200	Blue solid line
EG T=50	Green solid line
Crit T=500	Red inverted triangle
Crit T=200	Red upright triangle
PL T=50	Blue dashed line
Crit T=50	Red cross
Fondo	Black square
Sponda	Red circle

Rio Cacarello - Tratto monte



Legend	
EG T=500	Green dotted line
EG T=200	Blue dotted line
EG T=50	Green solid line
PL T=500	Blue dotted line
Crit T=500	Red inverted triangle
Crit T=200	Red upright triangle
PL T=200	Blue solid line
PL T=50	Blue dashed line
Crit T=50	Red cross
Fondo	Black square
Sponda	Red circle

1 cm Horiz. = 2.5 m 1 cm Vert. = 1 m

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto monte	26.2	T=50	103.00	31.47	34.20	35.40	1.20	35.57	1.37	33.73	34.76	0.005196	3.31	31.16	14.00	0.71
Tratto monte	26.2	T=200	127.00	31.47	35.40	35.40	0.00	35.57	0.17	34.00	35.73	0.002093	2.56	53.01	26.20	0.45
Tratto monte	26.2	T=500	143.00	31.47	35.60	35.40	-0.20	35.57	-0.03	34.17	35.94	0.002135	2.67	58.62	31.15	0.45
Tratto monte	26.11		Bridge													
Tratto monte	26.1	T=50	103.00	31.47	34.14	35.40	1.26	35.57	1.43	33.73	34.73	0.005605	3.39	30.38	13.98	0.73
Tratto monte	26.1	T=200	127.00	31.47	34.87	35.40	0.53	35.57	0.70	33.99	35.37	0.003607	3.12	41.23	18.33	0.59
Tratto monte	26.1	T=500	143.00	31.47	34.99	35.40	0.41	35.57	0.58	34.17	35.56	0.004031	3.36	43.55	20.12	0.62
Tratto monte	25	T=50	103.00	31.13	34.27	33.45	-0.82	34.80	0.53	33.46	34.58	0.002737	2.48	41.47	18.97	0.54
Tratto monte	25	T=200	127.00	31.13	34.99	33.45	-1.54	34.80	-0.19	33.70	35.25	0.001739	2.28	55.80	22.25	0.44
Tratto monte	25	T=500	143.00	31.13	35.13	33.45	-1.68	34.80	-0.33	33.84	35.44	0.001876	2.44	59.03	22.40	0.45
Tratto monte	24	T=50	103.00	30.84	34.27	33.20	-1.07	34.30	0.03	33.20	34.50	0.001817	2.11	48.79	21.14	0.44
Tratto monte	24	T=200	127.00	30.84	35.00	33.20	-1.80	34.30	-0.70	33.43	35.20	0.001145	1.97	64.99	22.40	0.36
Tratto monte	24	T=500	143.00	30.84	35.15	33.20	-1.95	34.30	-0.85	33.57	35.37	0.001248	2.11	68.28	22.40	0.38
Tratto monte	23	T=50	103.00	30.40	34.19	33.04	-1.15	33.58	-0.61	33.19	34.46	0.002105	2.33	44.74	19.97	0.47
Tratto monte	23	T=200	127.00	30.40	34.94	33.04	-1.90	33.58	-1.36	33.43	35.17	0.001351	2.17	59.89	20.20	0.39
Tratto monte	23	T=500	143.00	30.40	35.07	33.04	-2.03	33.58	-1.49	33.58	35.35	0.001498	2.34	62.64	20.20	0.41
Tratto monte	22.2	T=50	103.00	29.90	34.07	33.05	-1.02	33.58	-0.49	33.11	34.43	0.002767	2.66	39.47	17.80	0.52
Tratto monte	22.2	T=200	127.00	29.90	34.85	33.05	-1.80	33.58	-1.27	33.38	35.15	0.001796	2.47	53.34	17.80	0.43
Tratto monte	22.2	T=500	143.00	29.90	34.96	33.05	-1.91	33.58	-1.38	33.56	35.32	0.002039	2.68	55.43	17.80	0.45
Tratto monte	22.11		Bridge													
Tratto monte	22.1	T=50	103.00	29.90	33.71	33.05	-0.66	33.58	-0.13	33.11	34.20	0.004417	3.10	33.33	15.65	0.65
Tratto monte	22.1	T=200	127.00	29.90	34.57	33.05	-1.52	33.58	-0.99	33.38	34.94	0.002364	2.71	48.45	17.80	0.49
Tratto monte	22.1	T=500	143.00	29.90	34.62	33.05	-1.57	33.58	-1.04	33.56	35.07	0.002860	3.01	49.25	17.80	0.53
Tratto monte	21	T=50	103.00	29.93	33.63	32.74	-0.89	33.46	-0.17	32.98	34.14	0.004235	3.16	32.70	14.81	0.65
Tratto monte	21	T=200	127.00	29.93	34.51	32.74	-1.77	33.46	-1.05	33.26	34.90	0.002376	2.81	46.53	15.80	0.49
Tratto monte	21	T=500	143.00	29.93	34.53	32.74	-1.79	33.46	-1.07	33.45	35.02	0.002951	3.14	46.86	15.80	0.55
Tratto monte	20	T=50	103.00	29.66	33.63	32.60	-1.03	33.20	-0.43	32.71	34.06	0.003219	2.89	35.98	14.60	0.56
Tratto monte	20	T=200	127.00	29.66	34.50	32.60	-1.90	33.20	-1.30	33.02	34.86	0.002036	2.67	48.67	14.60	0.45
Tratto monte	20	T=500	143.00	29.66	34.52	32.60	-1.92	33.20	-1.32	33.20	34.97	0.002542	2.99	48.92	14.60	0.50
Tratto monte	19.2	T=50	103.00	29.50	32.95	33.39	0.44	33.52	0.57	32.64	33.95	0.009579	4.44	23.52	9.45	0.84
Tratto monte	19.2	T=200	127.00	29.50	34.20	33.39	-0.81	33.52	-0.68	33.08	34.81	0.004231	3.56	38.95	14.00	0.56
Tratto monte	19.2	T=500	143.00	29.50	33.99	33.39	-0.60	33.52	-0.47	33.38	34.89	0.006574	4.29	36.08	14.00	0.69
Tratto monte	19.11		Bridge													
Tratto monte	19.1	T=50	103.00	29.50	32.64	33.39	0.75	33.52	0.88	32.64	33.91	0.013182	4.99	20.71	8.63	0.99
Tratto monte	19.1	T=200	127.00	29.50	33.07	33.39	0.32	33.52	0.45	33.07	34.46	0.012941	5.23	24.69	9.77	0.97
Tratto monte	19.1	T=500	143.00	29.50	33.38	33.39	0.01	33.52	0.14	33.38	34.80	0.012449	5.31	27.76	10.57	0.94
Tratto monte	18	T=50	103.00	29.44	31.73	32.24	0.51	33.14	1.41	32.36	33.78	0.027981	6.35	16.22	9.97	1.59
Tratto monte	18	T=200	127.00	29.44	31.97	32.24	0.27	33.14	1.17	32.68	34.32	0.028676	6.79	18.70	10.51	1.62

HEC-RAS Plan: Pc2 River: Rio Cacarello Reach: Tratto monte (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto monte	18	T=500	143.00	29.44	32.12	32.24	0.12	33.14	1.02	32.88	34.64	0.028819	7.03	20.35	10.85	1.64
Tratto monte	17	T=50	103.00	29.14	32.26	32.07	-0.19	32.60	0.34	32.26	33.29	0.010653	4.49	22.92	11.19	1.00
Tratto monte	17	T=200	127.00	29.14	33.14	32.07	-1.07	32.60	-0.54	32.59	33.87	0.005325	3.79	34.50	15.40	0.72
Tratto monte	17	T=500	143.00	29.14	33.35	32.07	-1.28	32.60	-0.75	32.83	34.13	0.005305	3.93	37.77	15.40	0.72
Tratto monte	16.2	T=50	103.00	29.05	32.13	32.46	0.33	32.67	0.54	31.81	33.08	0.008997	4.33	23.81	8.72	0.84
Tratto monte	16.2	T=200	127.00	29.05	33.15	32.46	-0.69	32.67	-0.48	32.18	33.77	0.004399	3.58	39.93	21.30	0.59
Tratto monte	16.2	T=500	143.00	29.05	33.41	32.46	-0.95	32.67	-0.74	32.91	34.01	0.004105	3.62	45.34	21.30	0.58
Tratto monte	16.11	Bridge														
Tratto monte	16.1	T=50	103.00	29.05	31.81	32.46	0.65	32.67	0.86	31.81	33.03	0.012702	4.90	21.03	8.65	1.00
Tratto monte	16.1	T=200	127.00	29.05	32.17	32.46	0.29	32.67	0.50	32.17	33.57	0.013071	5.25	24.20	8.72	1.01
Tratto monte	16.1	T=500	143.00	29.05	32.91	32.46	-0.45	32.67	-0.24	32.91	33.90	0.007545	4.49	34.79	21.30	0.77

Plan: Pc2 Rio Cacarello Tratto monte RS: 26.11 Profile: T=50

E.G. US. (m)	34.76	Element	Inside BR US	Inside BR DS
W.S. US. (m)	34.20	E.G. Elev (m)	34.76	34.73
Q Total (m3/s)	103.00	W.S. Elev (m)	34.20	34.15
Q Bridge (m3/s)	103.00	Crit W.S. (m)	33.73	33.73
Q Weir (m3/s)		Max Chl Dpth (m)	2.73	2.68
Weir Sta Lft (m)		Vel Total (m/s)	3.31	3.39
Weir Sta Rgt (m)		Flow Area (m2)	31.15	30.41
Weir Submerg		Froude # Chl	0.71	0.73
Weir Max Depth (m)		Specif Force (m3)	71.30	70.52
Min El Weir Flow (m)	34.59	Hydr Depth (m)	2.23	2.18
Min El Prs (m)	34.47	W.P. Total (m)	16.74	16.63
Delta EG (m)	0.03	Conv. Total (m3/s)	1428.1	1377.9
Delta WS (m)	0.06	Top Width (m)	14.00	13.98
BR Open Area (m2)	34.75	Frctn Loss (m)	0.02	0.00
BR Open Vel (m/s)	3.39	C & E Loss (m)	0.00	0.00
Coef of Q		Shear Total (N/m2)	94.91	100.18
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 26.11 Profile: T=200

E.G. US. (m)	35.73	Element	Inside BR US	Inside BR DS
W.S. US. (m)	35.40	E.G. Elev (m)	35.73	35.73
Q Total (m3/s)	127.00	W.S. Elev (m)	35.40	35.40
Q Bridge (m3/s)	114.07	Crit W.S. (m)	34.00	34.00
Q Weir (m3/s)	12.93	Max Chl Dpth (m)	3.93	3.93
Weir Sta Lft (m)	0.00	Vel Total (m/s)	2.70	2.70
Weir Sta Rgt (m)	31.15	Flow Area (m2)	47.01	47.01
Weir Submerg	0.00	Froude # Chl	0.54	0.54
Weir Max Depth (m)	1.14	Specif Force (m3)	122.09	122.09
Min El Weir Flow (m)	34.59	Hydr Depth (m)	3.99	3.99
Min El Prs (m)	34.47	W.P. Total (m)	43.87	43.87
Delta EG (m)	0.36	Conv. Total (m3/s)		
Delta WS (m)	0.53	Top Width (m)	11.79	11.79
BR Open Area (m2)	34.75	Frctn Loss (m)		
BR Open Vel (m/s)	3.28	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 26.11 Profile: T=500

E.G. US. (m)	35.94	Element	Inside BR US	Inside BR DS
W.S. US. (m)	35.60	E.G. Elev (m)	35.94	35.94
Q Total (m3/s)	143.00	W.S. Elev (m)	35.60	35.60
Q Bridge (m3/s)	120.08	Crit W.S. (m)	34.17	34.17
Q Weir (m3/s)	22.92	Max Chl Dpth (m)	4.13	4.13
Weir Sta Lft (m)	0.00	Vel Total (m/s)	2.66	2.66
Weir Sta Rgt (m)	31.15	Flow Area (m2)	53.72	53.72
Weir Submerg	0.00	Froude # Chl	0.53	0.53
Weir Max Depth (m)	1.35	Specif Force (m3)	136.31	136.31
Min El Weir Flow (m)	34.59	Hydr Depth (m)	1.72	1.72
Min El Prs (m)	34.47	W.P. Total (m)	63.62	63.62
Delta EG (m)	0.38	Conv. Total (m3/s)		
Delta WS (m)	0.60	Top Width (m)	31.15	31.15
BR Open Area (m2)	34.75	Frctn Loss (m)		
BR Open Vel (m/s)	3.46	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 22.11 Profile: T=50

E.G. US. (m)	34.43	Element	Inside BR US	Inside BR DS
W.S. US. (m)	34.07	E.G. Elev (m)	34.43	34.34
Q Total (m3/s)	103.00	W.S. Elev (m)	34.07	34.06
Q Bridge (m3/s)	78.29	Crit W.S. (m)	32.97	32.97
Q Weir (m3/s)	24.71	Max Chl Dpth (m)	4.17	4.16
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	17.80	Flow Area (m2)		
Weir Submerg	0.28	Froude # Chl	0.44	0.44
Weir Max Depth (m)	1.39	Specif Force (m3)	87.81	87.56
Min El Weir Flow (m)	33.04	Hydr Depth (m)		
Min El Prs (m)	33.41	W.P. Total (m)	46.51	46.49
Delta EG (m)	0.23	Conv. Total (m3/s)		
Delta WS (m)	0.36	Top Width (m)	17.80	17.80
BR Open Area (m2)	26.11	Frctn Loss (m)		
BR Open Vel (m/s)	3.00	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 22.11 Profile: T=200

E.G. US. (m)	35.15	Element	Inside BR US	Inside BR DS
W.S. US. (m)	34.85	E.G. Elev (m)	35.15	34.99
Q Total (m3/s)	127.00	W.S. Elev (m)	34.85	34.57
Q Bridge (m3/s)	70.45	Crit W.S. (m)	33.30	33.30
Q Weir (m3/s)	56.55	Max Chl Dpth (m)	4.95	4.67
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	17.80	Flow Area (m2)		
Weir Submerg	0.66	Froude # Chl	0.36	0.41
Weir Max Depth (m)	2.11	Specif Force (m3)	124.86	115.11
Min El Weir Flow (m)	33.04	Hydr Depth (m)		
Min El Prs (m)	33.41	W.P. Total (m)	48.07	47.52
Delta EG (m)	0.21	Conv. Total (m3/s)		
Delta WS (m)	0.27	Top Width (m)	17.80	17.80
BR Open Area (m2)	26.11	Frctn Loss (m)		
BR Open Vel (m/s)	2.70	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 22.11 Profile: T=500

E.G. US. (m)	35.32	Element	Inside BR US	Inside BR DS
W.S. US. (m)	34.96	E.G. Elev (m)	35.32	35.14
Q Total (m3/s)	143.00	W.S. Elev (m)	34.96	34.62
Q Bridge (m3/s)	77.60	Crit W.S. (m)	33.78	33.78
Q Weir (m3/s)	65.40	Max Chl Dpth (m)	5.06	4.72
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	17.80	Flow Area (m2)		
Weir Submerg	0.62	Froude # Chl	0.38	0.45
Weir Max Depth (m)	2.28	Specif Force (m3)	137.98	126.02
Min El Weir Flow (m)	33.04	Hydr Depth (m)		
Min El Prs (m)	33.41	W.P. Total (m)	48.30	47.61
Delta EG (m)	0.25	Conv. Total (m3/s)		
Delta WS (m)	0.35	Top Width (m)	17.80	17.80
BR Open Area (m2)	26.11	Frctn Loss (m)		
BR Open Vel (m/s)	2.97	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 19.11 Profile: T=50

E.G. US. (m)	33.95	Element	Inside BR US	Inside BR DS
W.S. US. (m)	32.95	E.G. Elev (m)	33.95	33.92
Q Total (m3/s)	103.00	W.S. Elev (m)	32.95	32.82
Q Bridge (m3/s)	102.64	Crit W.S. (m)	32.65	32.65
Q Weir (m3/s)		Max Chl Dpth (m)	3.45	3.32
Weir Sta Lft (m)		Vel Total (m/s)	4.38	4.61
Weir Sta Rgt (m)		Flow Area (m2)	23.50	22.32
Weir Submerg		Froude # Chl	0.84	0.90
Weir Max Depth (m)		Specif Force (m3)	82.24	81.62
Min El Weir Flow (m)	32.41	Hydr Depth (m)	2.49	2.45
Min El Prs (m)	33.12	W.P. Total (m)	14.67	13.94
Delta EG (m)	0.04	Conv. Total (m3/s)	1051.5	986.7
Delta WS (m)	0.31	Top Width (m)	9.44	9.11
BR Open Area (m2)	23.97	Frctn Loss (m)	0.02	0.00
BR Open Vel (m/s)	4.64	C & E Loss (m)	0.01	0.02
Coef of Q		Shear Total (N/m2)	150.73	171.10
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 19.11 Profile: T=200

E.G. US. (m)	34.81	Element	Inside BR US	Inside BR DS
W.S. US. (m)	34.20	E.G. Elev (m)	34.81	34.66
Q Total (m3/s)	127.00	W.S. Elev (m)	34.20	34.20
Q Bridge (m3/s)	91.34	Crit W.S. (m)	33.01	33.01
Q Weir (m3/s)	35.66	Max Chl Dpth (m)	4.70	4.70
Weir Sta Lft (m)	0.00	Vel Total (m/s)	2.87	2.87
Weir Sta Rgt (m)	14.00	Flow Area (m2)	44.27	44.27
Weir Submerg	0.02	Froude # Chl	0.53	0.53
Weir Max Depth (m)	2.40	Specif Force (m3)	117.34	117.34
Min El Weir Flow (m)	32.41	Hydr Depth (m)	3.16	3.16
Min El Prs (m)	33.12	W.P. Total (m)	37.70	37.70
Delta EG (m)	0.34	Conv. Total (m3/s)		
Delta WS (m)	1.12	Top Width (m)	14.00	14.00
BR Open Area (m2)	23.97	Frctn Loss (m)		
BR Open Vel (m/s)	3.81	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 19.11 Profile: T=500

E.G. US. (m)	34.89	Element	Inside BR US	Inside BR DS
W.S. US. (m)	33.99	E.G. Elev (m)	34.89	34.85
Q Total (m3/s)	143.00	W.S. Elev (m)	33.99	33.99
Q Bridge (m3/s)	104.46	Crit W.S. (m)	33.04	33.04
Q Weir (m3/s)	38.54	Max Chl Dpth (m)	4.49	4.49
Weir Sta Lft (m)	0.00	Vel Total (m/s)	3.15	3.15
Weir Sta Rgt (m)	14.00	Flow Area (m2)	45.40	45.40
Weir Submerg	0.08	Froude # Chl	0.67	0.67
Weir Max Depth (m)	2.48	Specif Force (m3)	128.12	128.12
Min El Weir Flow (m)	32.41	Hydr Depth (m)	3.24	3.24
Min El Prs (m)	33.12	W.P. Total (m)	37.29	37.29
Delta EG (m)	0.09	Conv. Total (m3/s)		
Delta WS (m)	0.61	Top Width (m)	14.00	14.00
BR Open Area (m2)	23.97	Frctn Loss (m)		
BR Open Vel (m/s)	4.36	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 16.11 Profile: T=50

E.G. US. (m)	33.08	Element	Inside BR US	Inside BR DS
W.S. US. (m)	32.13	E.G. Elev (m)	33.08	33.04
Q Total (m3/s)	103.00	W.S. Elev (m)	32.11	31.96
Q Bridge (m3/s)	103.00	Crit W.S. (m)	31.81	31.81
Q Weir (m3/s)		Max Chl Dpth (m)	3.06	2.91
Weir Sta Lft (m)		Vel Total (m/s)	4.36	4.60
Weir Sta Rgt (m)		Flow Area (m2)	23.62	22.37
Weir Submerg		Froude # Chl	0.80	0.92
Weir Max Depth (m)		Specif Force (m3)	79.03	78.16
Min El Weir Flow (m)	32.42	Hydr Depth (m)	3.54	2.58
Min El Prs (m)	32.27	W.P. Total (m)	14.84	12.56
Delta EG (m)	0.05	Conv. Total (m3/s)	975.3	995.8
Delta WS (m)	0.32	Top Width (m)	6.68	8.68
BR Open Area (m2)	24.15	Frctn Loss (m)	0.03	0.00
BR Open Vel (m/s)	4.60	C & E Loss (m)	0.01	0.01
Coef of Q		Shear Total (N/m2)	174.03	186.84
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

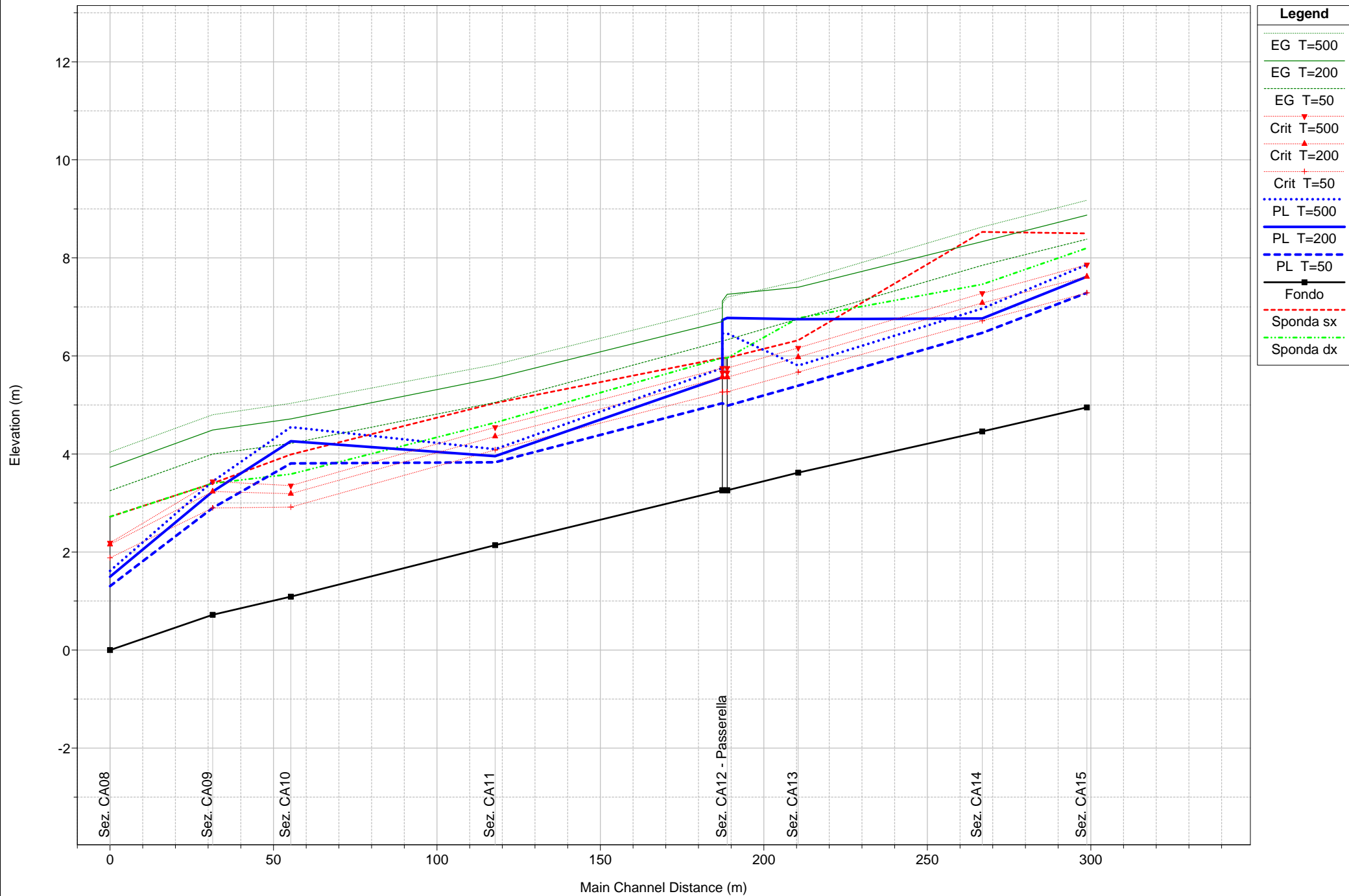
Plan: Pc2 Rio Cacarello Tratto monte RS: 16.11 Profile: T=200

E.G. US. (m)	33.77	Element	Inside BR US	Inside BR DS
W.S. US. (m)	33.15	E.G. Elev (m)	33.77	33.65
Q Total (m3/s)	127.00	W.S. Elev (m)	33.15	33.15
Q Bridge (m3/s)	86.95	Crit W.S. (m)	32.08	32.08
Q Weir (m3/s)	40.05	Max Chl Dpth (m)	4.10	4.10
Weir Sta Lft (m)	0.00	Vel Total (m/s)	2.57	2.57
Weir Sta Rgt (m)	21.30	Flow Area (m2)	49.49	49.49
Weir Submerg	0.00	Froude # Chl	0.56	0.56
Weir Max Depth (m)	1.35	Specif Force (m3)	108.08	108.08
Min El Weir Flow (m)	32.42	Hydr Depth (m)	2.32	2.32
Min El Prs (m)	32.27	W.P. Total (m)	44.21	44.21
Delta EG (m)	0.19	Conv. Total (m3/s)		
Delta WS (m)	0.98	Top Width (m)	21.30	21.30
BR Open Area (m2)	24.15	Frctn Loss (m)		
BR Open Vel (m/s)	3.60	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc2 Rio Cacarello Tratto monte RS: 16.11 Profile: T=500

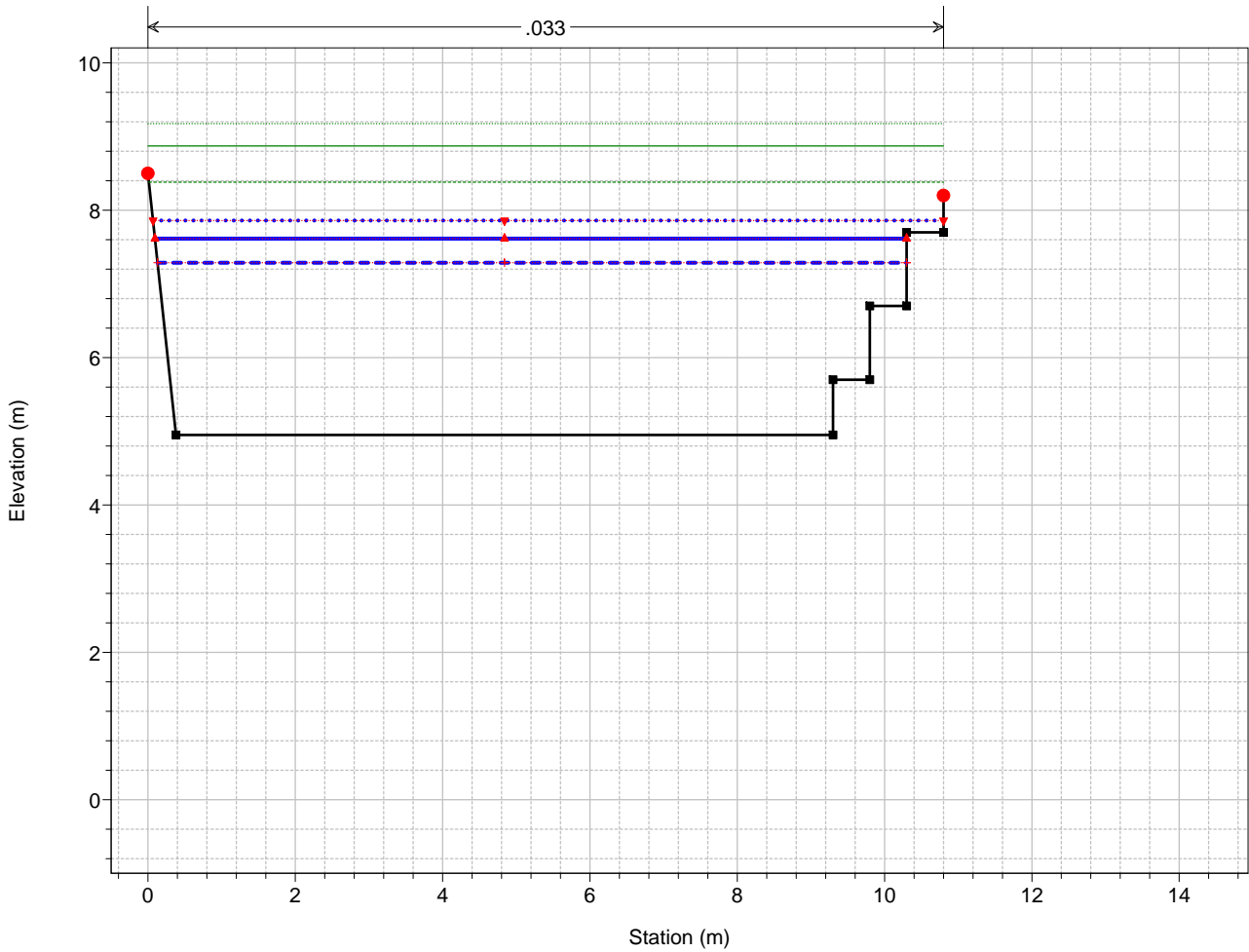
E.G. US. (m)	34.01	Element	Inside BR US	Inside BR DS
W.S. US. (m)	33.41	E.G. Elev (m)	34.01	33.98
Q Total (m3/s)	143.00	W.S. Elev (m)	33.41	33.41
Q Bridge (m3/s)	89.98	Crit W.S. (m)	32.12	32.12
Q Weir (m3/s)	53.02	Max Chl Dpth (m)	4.36	4.36
Weir Sta Lft (m)	0.00	Vel Total (m/s)	2.61	2.61
Weir Sta Rgt (m)	21.30	Flow Area (m2)	54.75	54.75
Weir Submerg	0.23	Froude # Chl	0.53	0.53
Weir Max Depth (m)	1.59	Specif Force (m3)	122.26	122.26
Min El Weir Flow (m)	32.42	Hydr Depth (m)	2.57	2.57
Min El Prs (m)	32.27	W.P. Total (m)	44.72	44.72
Delta EG (m)	0.11	Conv. Total (m3/s)		
Delta WS (m)	0.50	Top Width (m)	21.30	21.30
BR Open Area (m2)	24.15	Frctn Loss (m)		
BR Open Vel (m/s)	3.73	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Rio Cacarello - Tratto valle



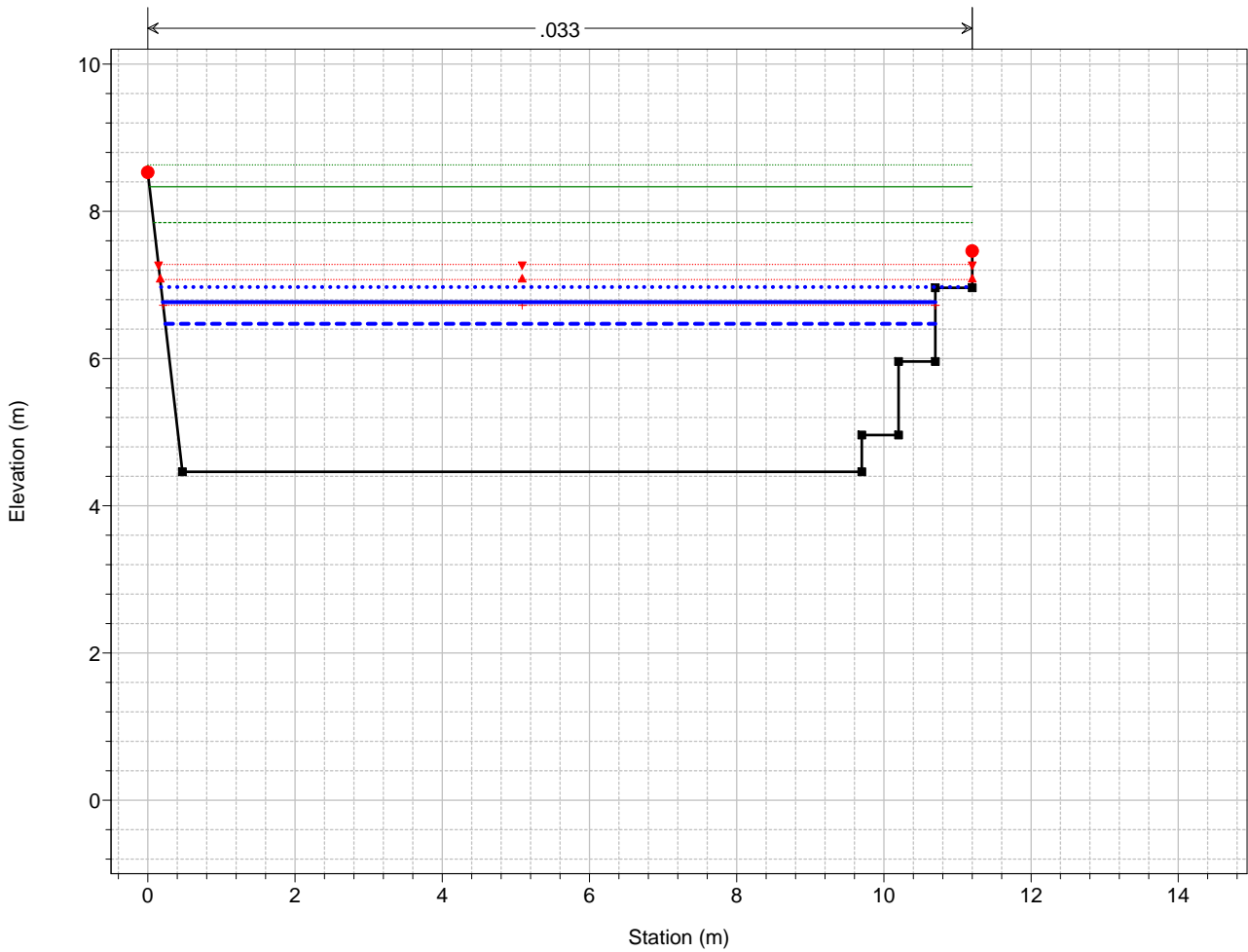
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Rio Cacarello - Tratto valle
Sez. CA15



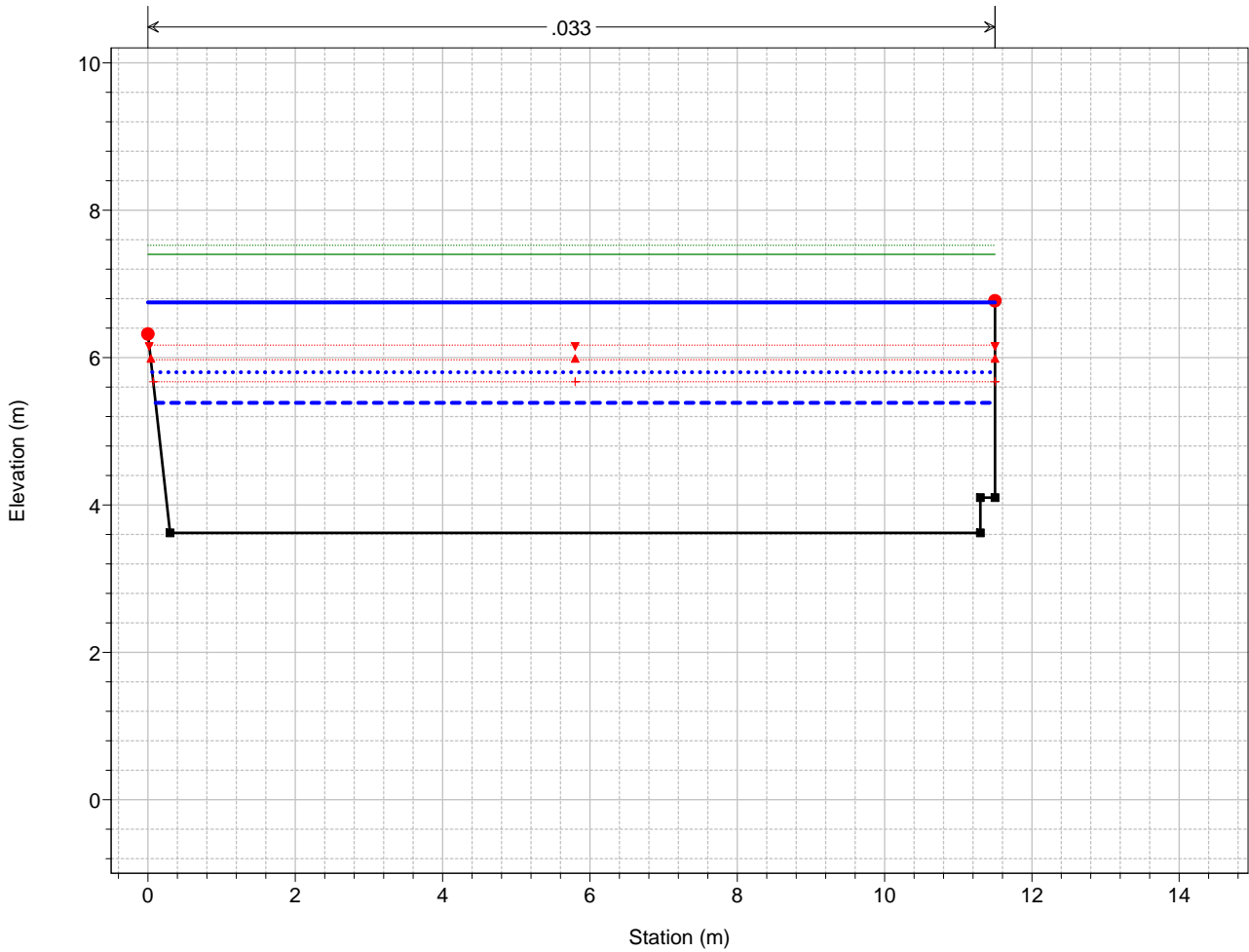
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EG T=200	— (Green solid line)
EG T=50	— (Green solid line)
PL T=500	... (Blue dotted line)
Crit T=500	▼ (Red inverted triangle)
Crit T=200	▲ (Red triangle)
PL T=200	— (Blue solid line)
PL T=50	- - - (Blue dashed line)
Crit T=50	+ (Red plus sign)
Fondo	— (Black stepped line)
Sponda	● (Red dot)

Rio Cacarello - Tratto valle
Sez. CA14

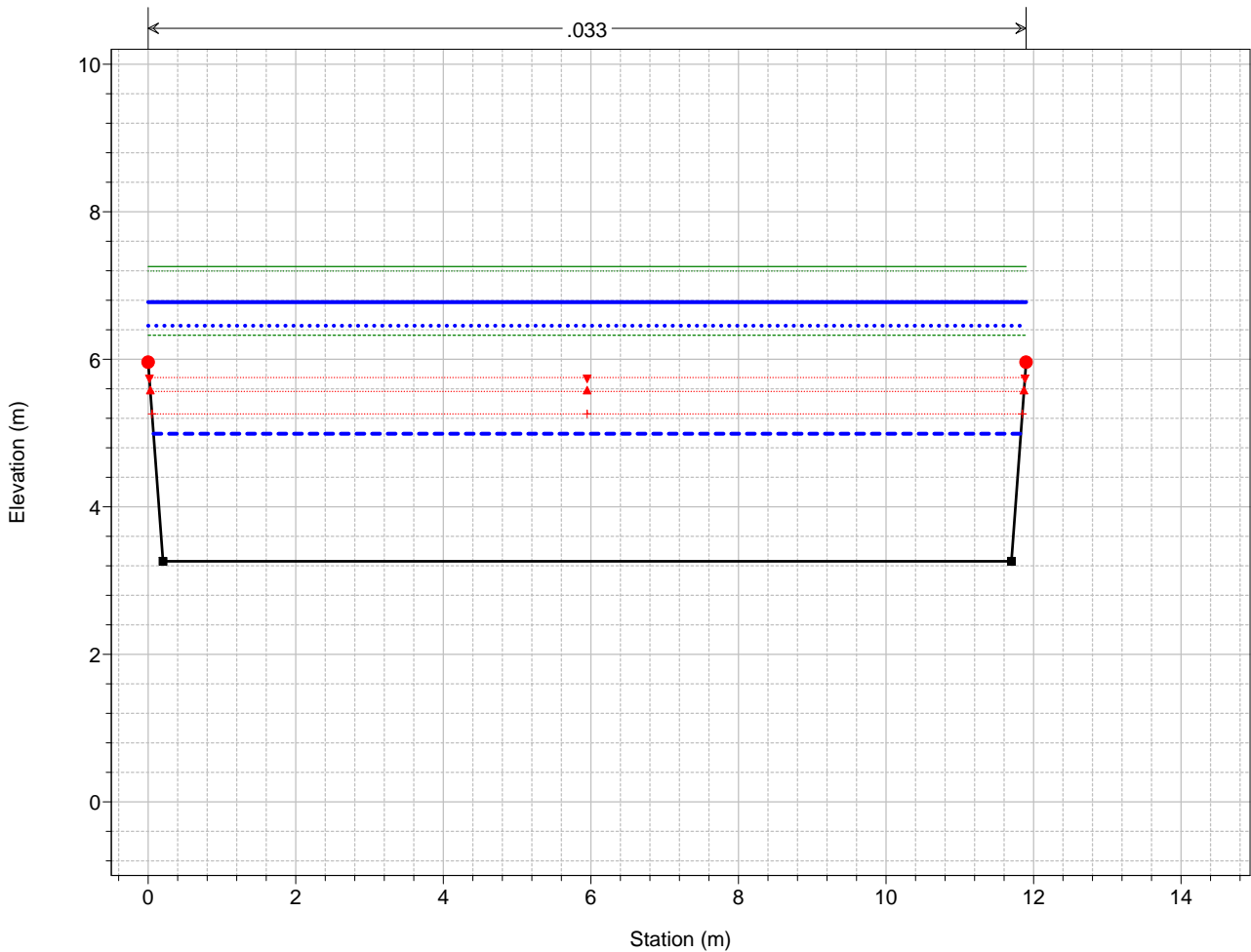


Legend	
EG T=500	— (Green solid line)
EG T=200	— (Green solid line)
EG T=50	— (Green solid line)
Crit T=500	▼ (Red inverted triangle)
Crit T=200	▲ (Red triangle)
PL T=500	... (Blue dotted line)
PL T=200	— (Blue solid line)
PL T=50	- - - (Blue dashed line)
Crit T=50	+ (Red plus sign)
Fondo	— (Black stepped line)
Sponda	● (Red dot)

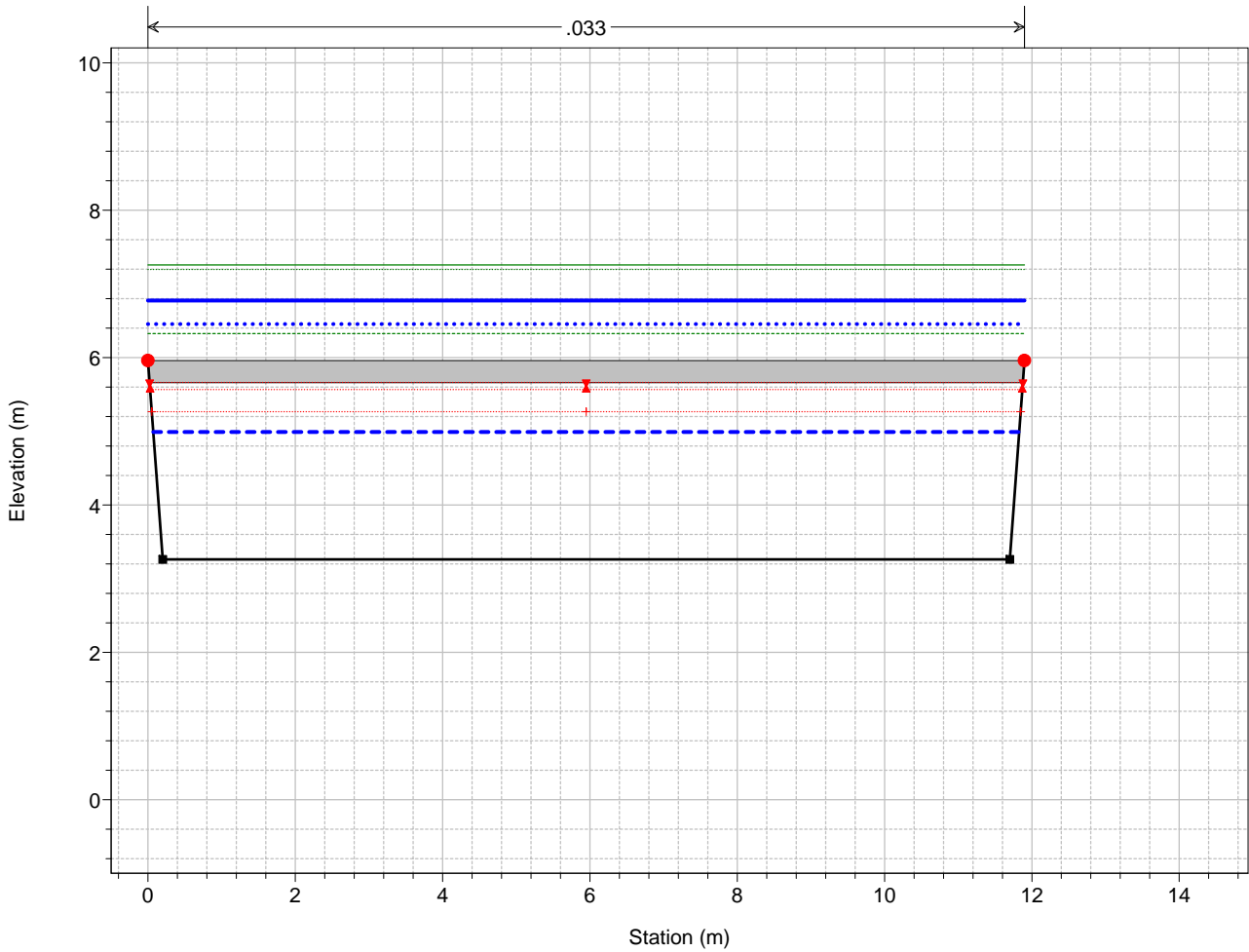
Rio Cacarello - Tratto valle
Sez. CA13



Rio Cacarello - Tratto valle

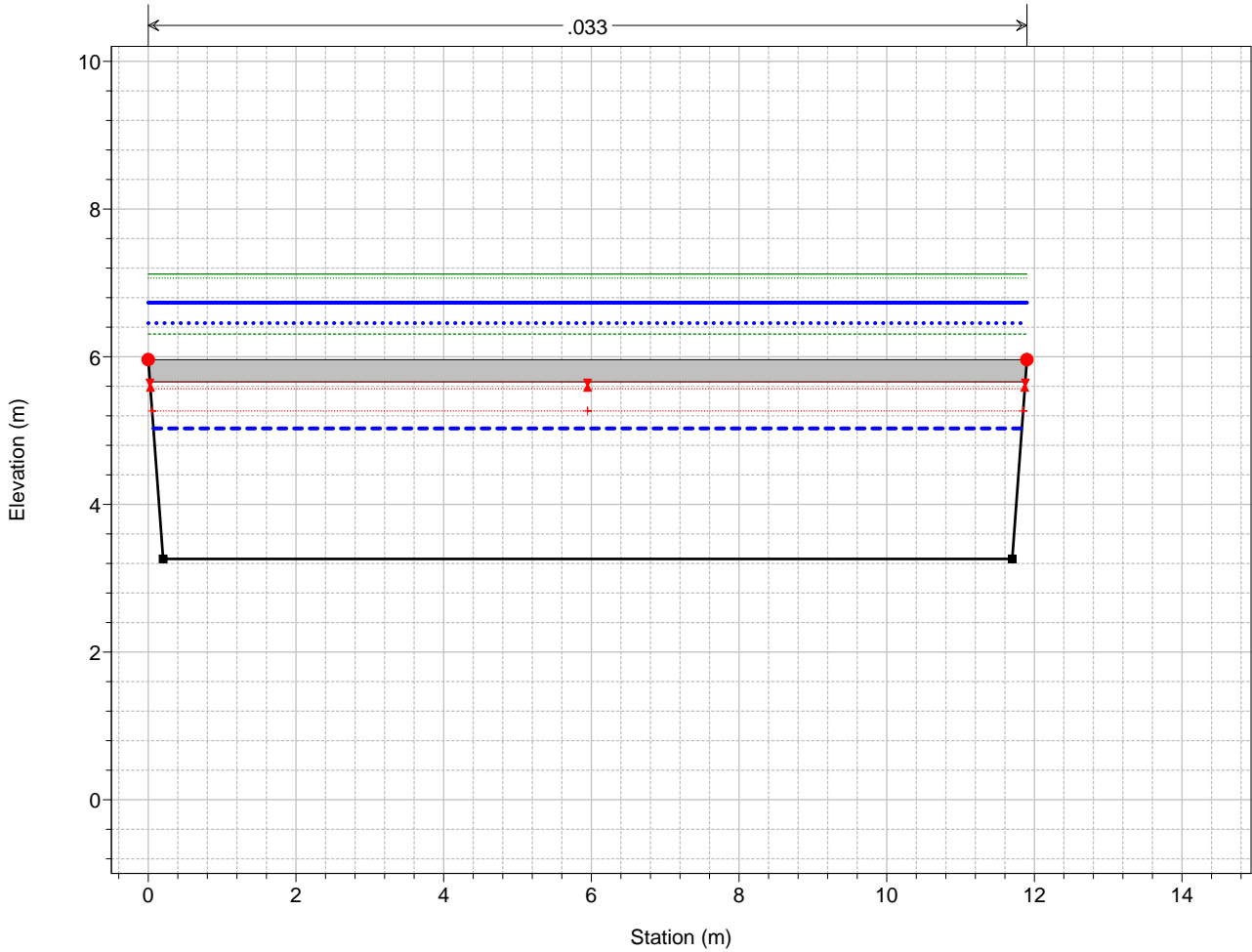


Rio Cacarello - Tratto valle
Sez. CA12 - Passerella



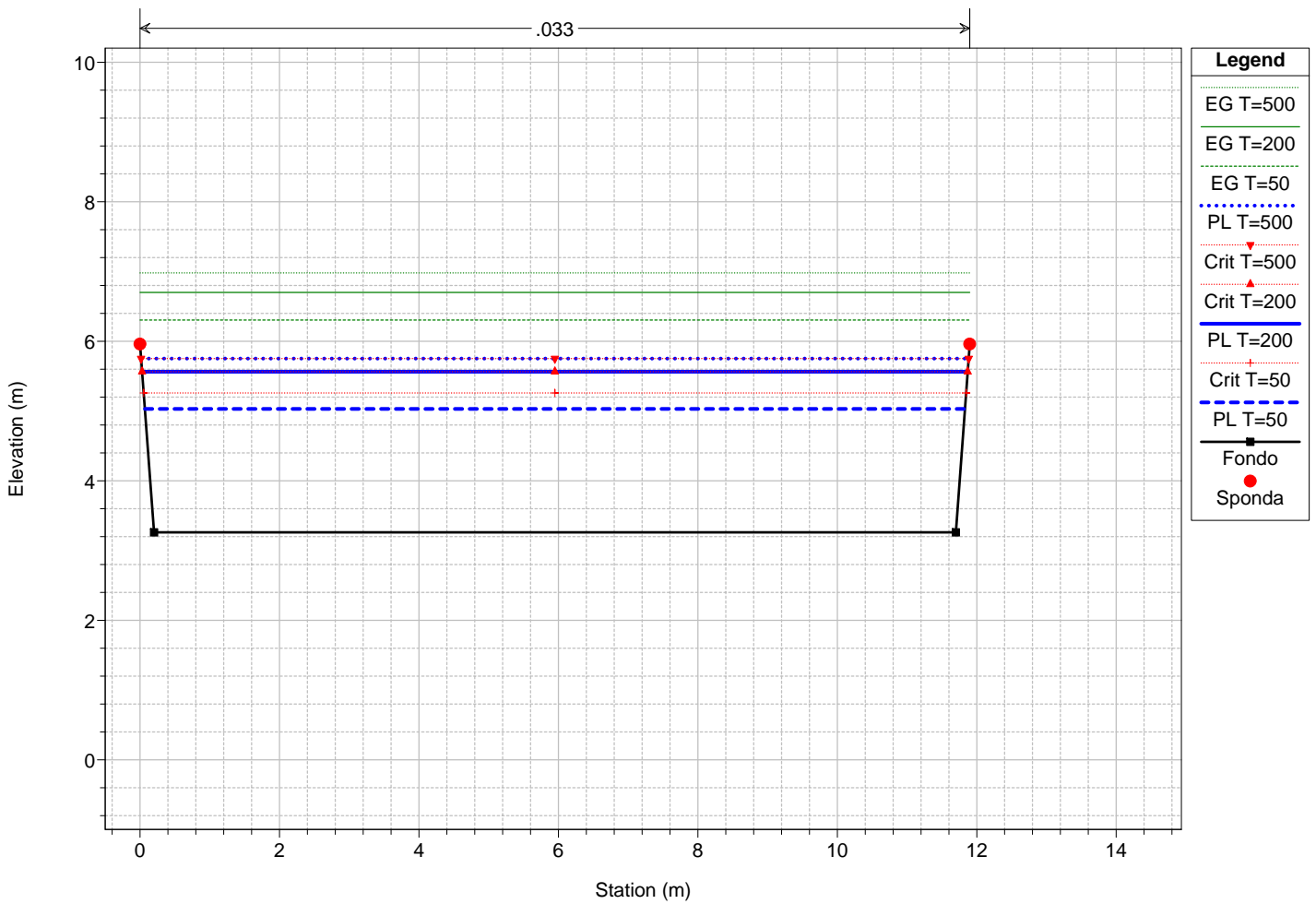
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- - -	EG T=500
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- - -	PL T=500
· · ·	EG T=50
- - - ▾	Crit T=500
· · · ▴	Crit T=200
- - - +	Crit T=50
- - -	PL T=50
— ■	Fondo
— ●	Sponda

Rio Cacarello - Tratto valle
Sez. CA12 - Passerella

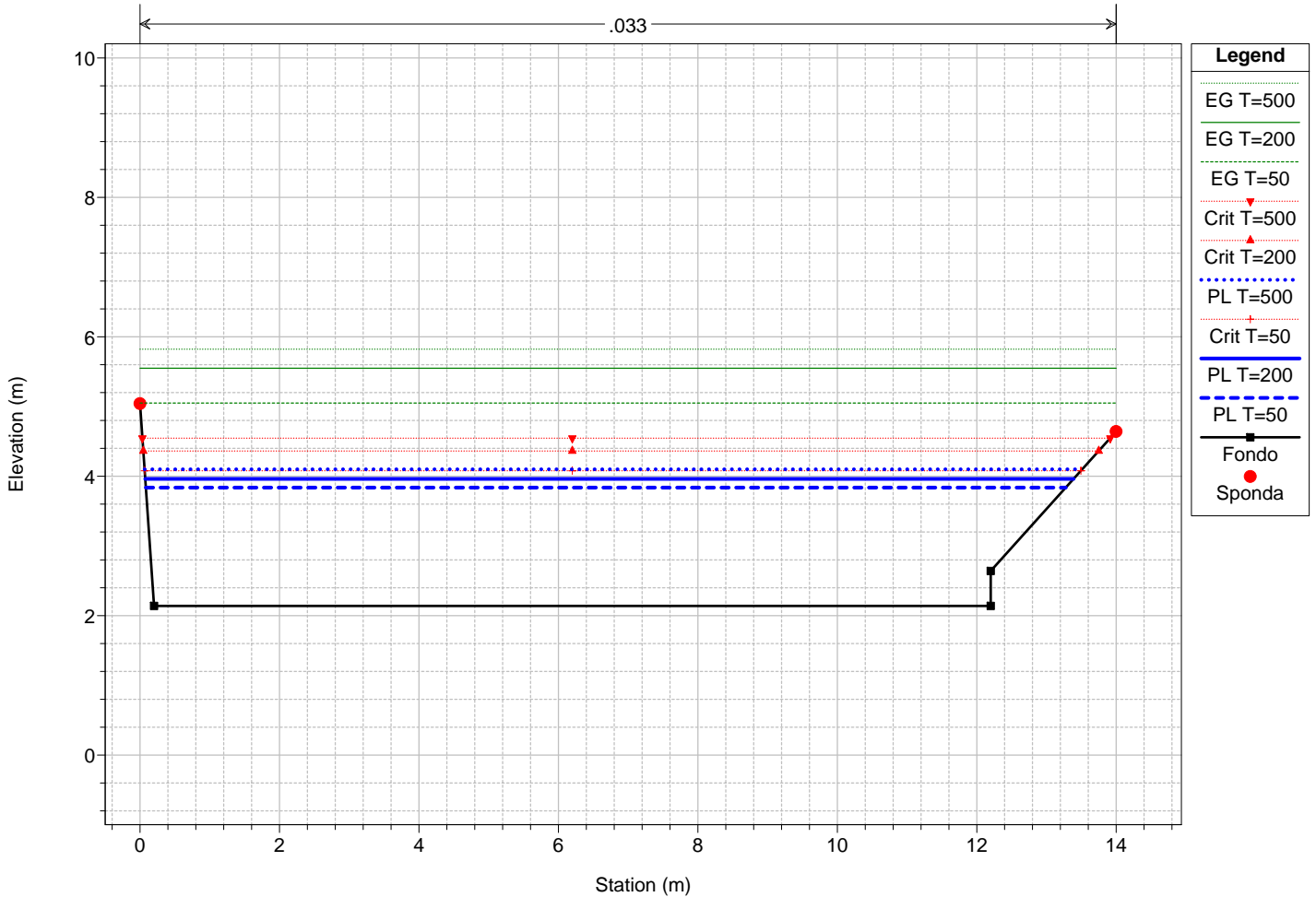


Legend	
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- - -	EG T=500
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- - -	PL T=500
· · ·	EG T=50
- - - ▾	Crit T=500
· · · ▴	Crit T=200
- - - +	Crit T=50
- - -	PL T=50
— ■	Fondo
— ●	Sponda

Rio Cacarello - Tratto valle

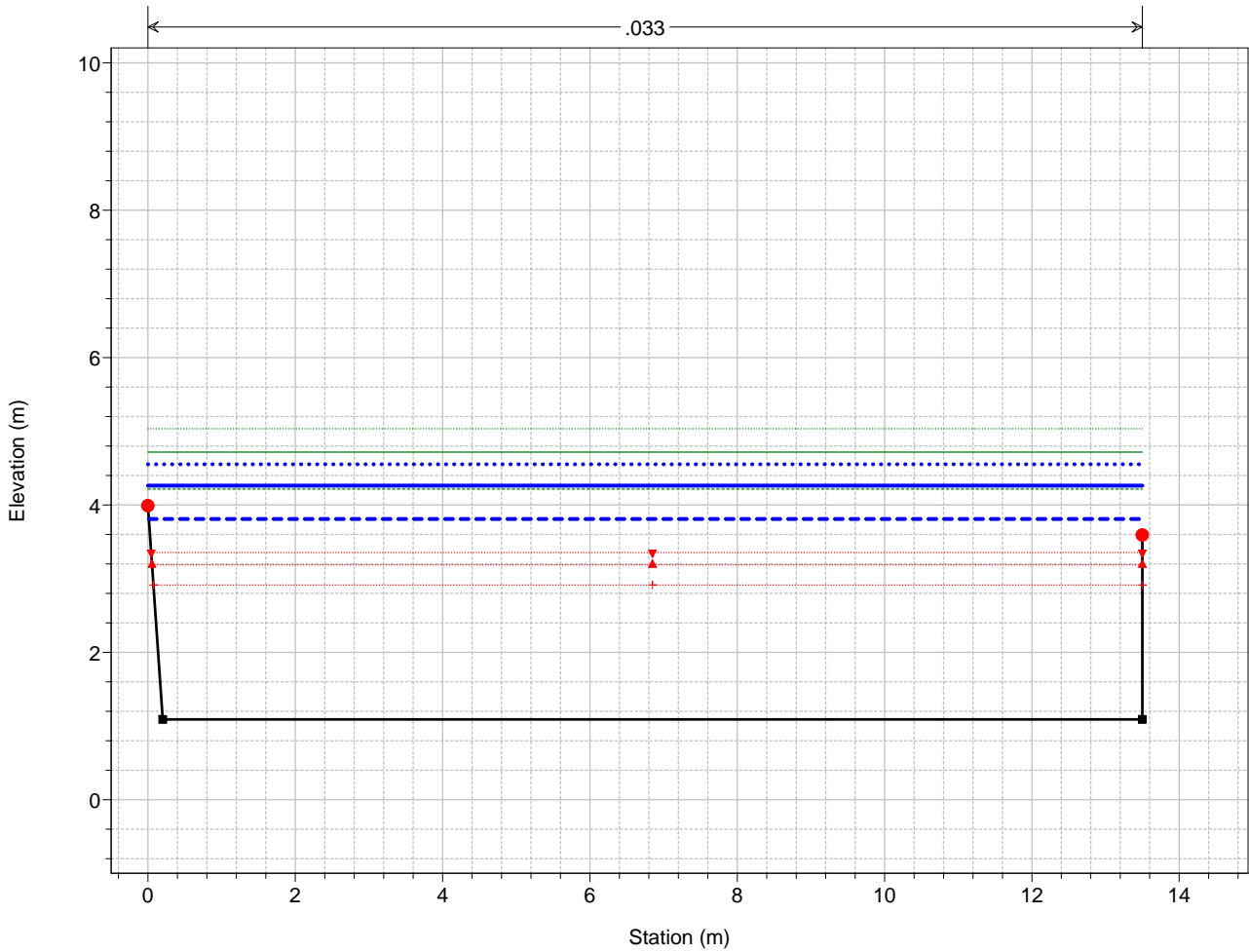


Rio Cacarello - Tratto valle Sez. CA11



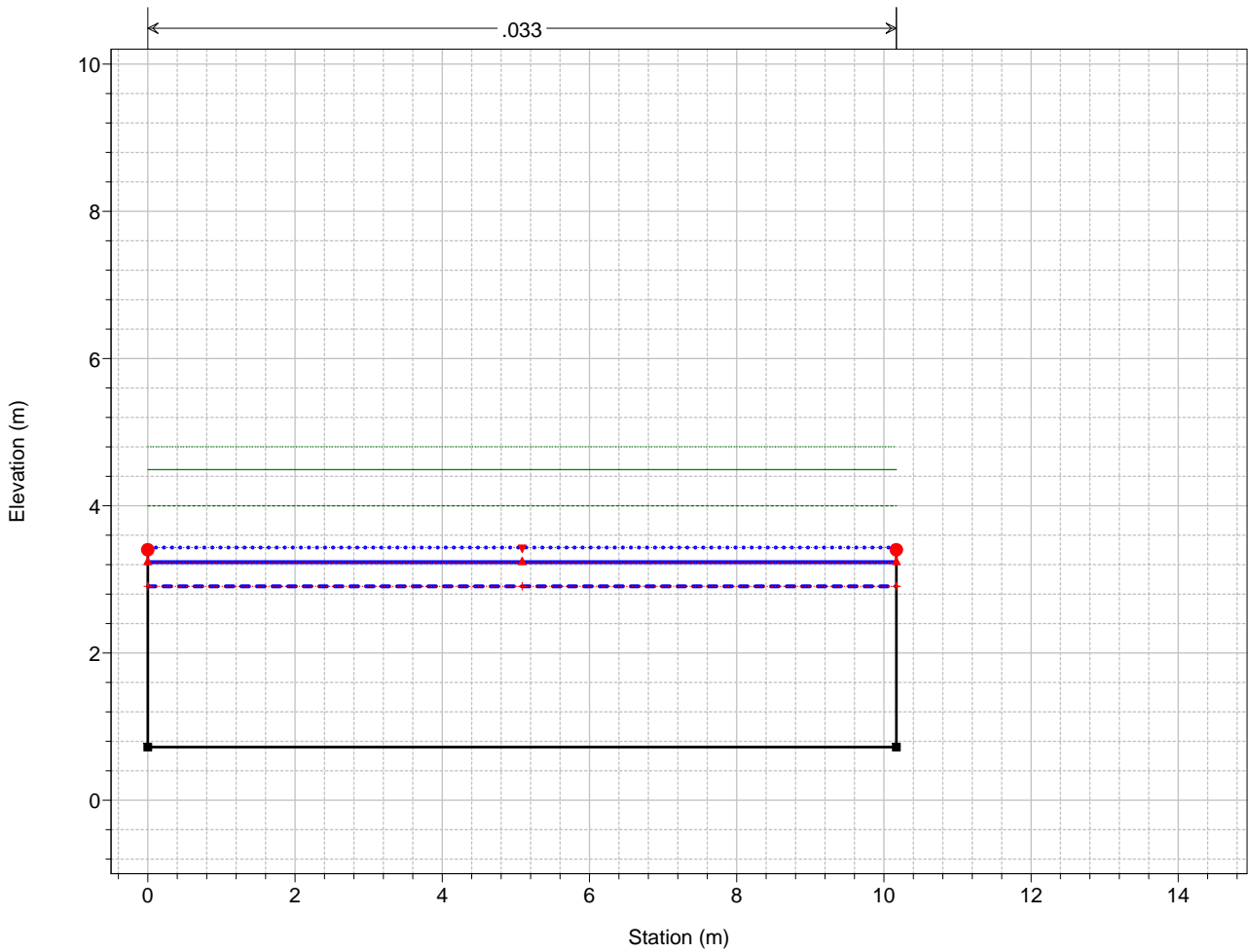
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Rio Cacarello - Tratto valle
Sez. CA10



Legend	
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EG T=200	(Green solid line)
EG T=50	(Green dotted line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black square)
Sponda	(Red circle)

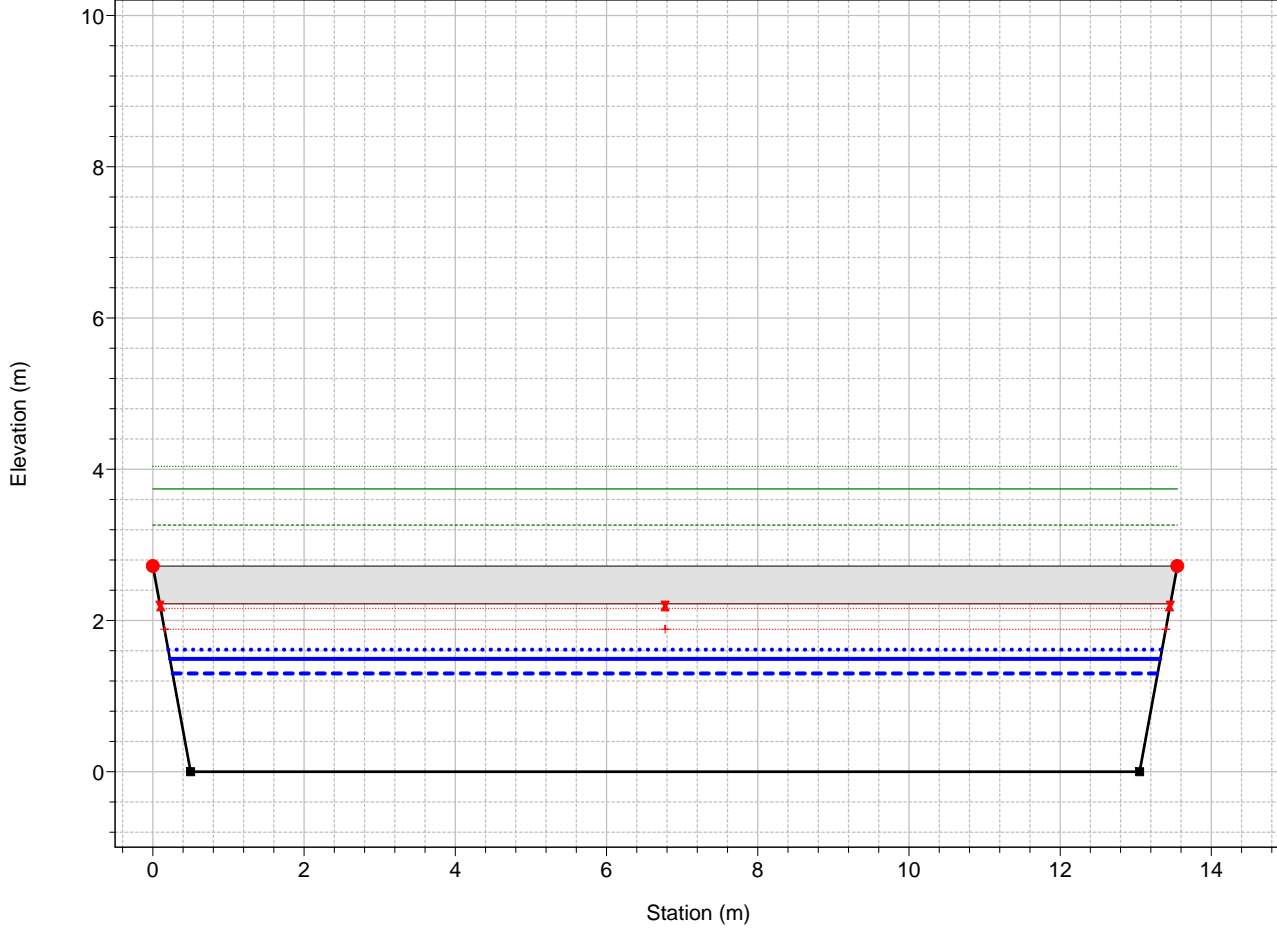
Rio Cacarello - Tratto valle
Sez. CA09



Legend	
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EG T=200	(Green solid line)
EG T=50	(Green dotted line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black square)
Sponda	(Red circle)

Rio Cacarello - Tratto valle
Sez. CA08

.033



Legend	
EG T=500	(dotted green line)
EG T=200	(dotted green line)
EG T=50	(dotted green line)
Crit T=500	(red triangle pointing down)
Crit T=200	(red triangle pointing up)
Crit T=50	(red triangle pointing up)
PL T=500	(dotted blue line)
PL T=200	(solid blue line)
PL T=50	(dashed blue line)
Fondo	(black square)
Sponda	(red circle)

HEC-RAS Plan: Pc1 River: Rio Cacarello Reach: Tratto valle

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	LOB Elev (m)	L. Freeboard (m)	ROB Elev (m)	R. Freeboard (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Tratto valle	15	T=50	103.00	4.95	7.29	8.50	1.21	8.20	0.91	7.29	8.38	0.013367	4.63	22.22	10.17	1.00
Tratto valle	15	T=200	127.00	4.95	7.61	8.50	0.89	8.20	0.59	7.62	8.87	0.013519	4.97	25.56	10.21	1.00
Tratto valle	15	T=500	143.00	4.95	7.86	8.50	0.64	8.20	0.34	7.86	9.17	0.013512	5.08	28.15	10.73	1.00
Tratto valle	14	T=50	103.00	4.46	6.47	8.53	2.06	7.46	0.99	6.72	7.85	0.018986	5.20	19.82	10.46	1.21
Tratto valle	14	T=200	127.00	4.46	6.77	8.53	1.76	7.46	0.69	7.07	8.33	0.018835	5.55	22.89	10.50	1.20
Tratto valle	14	T=500	143.00	4.46	6.97	8.53	1.56	7.46	0.49	7.28	8.63	0.019137	5.71	25.05	11.02	1.21
Tratto valle	13	T=50	103.00	3.62	5.39	6.32	0.93	6.77	1.38	5.67	6.76	0.019699	5.19	19.86	11.40	1.25
Tratto valle	13	T=200	127.00	3.62	6.75	6.32	-0.43	6.77	0.02	5.97	7.40	0.005424	3.58	35.49	11.50	0.65
Tratto valle	13	T=500	143.00	3.62	5.80	6.32	0.52	6.77	0.97	6.17	7.52	0.020009	5.81	24.60	11.44	1.27
Tratto valle	12.2	T=50	103.00	3.26	4.99	5.96	0.97	5.96	0.97	5.26	6.33	0.019236	5.12	20.12	11.76	1.25
Tratto valle	12.2	T=200	127.00	3.26	6.77	5.96	-0.81	5.96	-0.81	5.56	7.26	0.003546	3.08	41.28	11.90	0.53
Tratto valle	12.2	T=500	143.00	3.26	6.45	5.96	-0.49	5.96	-0.49	5.75	7.20	0.005926	3.82	37.47	11.90	0.69
Tratto valle	12.11		Bridge													
Tratto valle	12.1	T=50	103.00	3.26	5.03	5.96	0.93	5.96	0.93	5.26	6.31	0.017959	5.00	20.58	11.76	1.21
Tratto valle	12.1	T=200	127.00	3.26	5.56	5.96	0.40	5.96	0.40	5.56	6.70	0.012281	4.72	26.89	11.84	1.00
Tratto valle	12.1	T=500	143.00	3.26	5.75	5.96	0.21	5.96	0.21	5.75	6.98	0.012302	4.91	29.13	11.87	1.00
Tratto valle	11	T=50	103.00	2.14	3.84	5.04	1.20	4.64	0.80	4.08	5.05	0.017630	4.88	21.11	13.19	1.23
Tratto valle	11	T=200	127.00	2.14	3.96	5.04	1.08	4.64	0.68	4.36	5.55	0.021383	5.58	22.76	13.32	1.36
Tratto valle	11	T=500	143.00	2.14	4.10	5.04	0.94	4.64	0.54	4.54	5.82	0.021513	5.82	24.59	13.45	1.37
Tratto valle	10	T=50	103.00	1.09	3.81	3.99	0.18	3.59	-0.22	2.91	4.22	0.003594	2.83	36.41	13.49	0.55
Tratto valle	10	T=200	127.00	1.09	4.26	3.99	-0.27	3.59	-0.67	3.19	4.72	0.003465	2.98	42.55	13.50	0.54
Tratto valle	10	T=500	143.00	1.09	4.55	3.99	-0.56	3.59	-0.96	3.35	5.03	0.003408	3.08	46.45	13.50	0.53
Tratto valle	9	T=50	103.00	0.72	2.91	3.40	0.49	3.40	0.49	2.91	4.00	0.013287	4.63	22.22	10.17	1.00
Tratto valle	9	T=200	127.00	0.72	3.23	3.40	0.17	3.40	0.17	3.23	4.49	0.013434	4.97	25.56	10.17	1.00
Tratto valle	9	T=500	143.00	0.72	3.43	3.40	-0.03	3.40	-0.03	3.43	4.80	0.013674	5.18	27.59	10.17	1.00
Tratto valle	8	T=50	103.00	0.00	1.30	2.22	0.92	2.22	0.92	1.88	3.26	0.037268	6.21	16.60	13.03	1.76
Tratto valle	8	T=200	127.00	0.00	1.49	2.22	0.73	2.22	0.73	2.16	3.74	0.036589	6.64	19.12	13.10	1.76
Tratto valle	8	T=500	143.00	0.00	1.61	2.22	0.61	2.22	0.61	2.22	4.04	0.036202	6.90	20.72	13.14	1.75

Plan: Pc1 Rio Cacarello Tratto valle RS: 12.11 Profile: T=50

E.G. US. (m)	6.33	Element	Inside BR US	Inside BR DS
W.S. US. (m)	4.99	E.G. Elev (m)	6.33	6.31
Q Total (m3/s)	103.00	W.S. Elev (m)	4.99	5.03
Q Bridge (m3/s)	103.00	Crit W.S. (m)	5.26	5.26
Q Weir (m3/s)		Max Chl Dpth (m)	1.73	1.77
Weir Sta Lft (m)		Vel Total (m/s)	5.12	5.01
Weir Sta Rgt (m)		Flow Area (m2)	20.12	20.55
Weir Submerg		Froude # Chl	1.25	1.21
Weir Max Depth (m)		Specif Force (m3)	71.07	70.68
Min El Weir Flow (m)	5.96	Hydr Depth (m)	1.71	1.75
Min El Prs (m)	5.66	W.P. Total (m)	14.97	15.04
Delta EG (m)	0.02	Conv. Total (m3/s)	742.6	766.9
Delta WS (m)	-0.04	Top Width (m)	11.76	11.76
BR Open Area (m2)	28.03	Frctn Loss (m)	0.00	0.02
BR Open Vel (m/s)	5.12	C & E Loss (m)	0.00	0.10
Coef of Q		Shear Total (N/m2)	253.55	241.66
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pc1 Rio Cacarello Tratto valle RS: 12.11 Profile: T=200

E.G. US. (m)	7.26	Element	Inside BR US	Inside BR DS
W.S. US. (m)	6.77	E.G. Elev (m)	7.26	7.12
Q Total (m3/s)	127.00	W.S. Elev (m)	6.77	6.73
Q Bridge (m3/s)	101.70	Crit W.S. (m)	5.57	5.57
Q Weir (m3/s)	25.30	Max Chl Dpth (m)	3.51	3.47
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	11.90	Flow Area (m2)		
Weir Submerg	0.00	Froude # Chl	0.57	0.58
Weir Max Depth (m)	1.30	Specif Force (m3)	112.21	111.20
Min El Weir Flow (m)	5.96	Hydr Depth (m)		
Min El Prs (m)	5.66	W.P. Total (m)	41.70	41.61
Delta EG (m)	0.56	Conv. Total (m3/s)		
Delta WS (m)	1.21	Top Width (m)	11.90	11.90
BR Open Area (m2)	28.03	Frctn Loss (m)		
BR Open Vel (m/s)	3.63	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

Plan: Pc1 Rio Cacarello Tratto valle RS: 12.11 Profile: T=500

E.G. US. (m)	7.20	Element	Inside BR US	Inside BR DS
W.S. US. (m)	6.45	E.G. Elev (m)	7.20	7.06
Q Total (m3/s)	143.00	W.S. Elev (m)	6.45	6.45
Q Bridge (m3/s)	119.36	Crit W.S. (m)	5.66	5.66
Q Weir (m3/s)	23.64	Max Chl Dpth (m)	3.19	3.19
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	11.90	Flow Area (m2)		
Weir Submerg	0.00	Froude # Chl	0.75	0.75
Weir Max Depth (m)	1.24	Specif Force (m3)	118.62	118.62
Min El Weir Flow (m)	5.96	Hydr Depth (m)		
Min El Prs (m)	5.66	W.P. Total (m)	41.06	41.06
Delta EG (m)	0.22	Conv. Total (m3/s)		
Delta WS (m)	0.70	Top Width (m)	11.90	11.90
BR Open Area (m2)	28.03	Frctn Loss (m)		
BR Open Vel (m/s)	4.26	C & E Loss (m)		
Coef of Q		Shear Total (N/m2)		
Br Sel Method	Press/Weir	Power Total (N/m s)	0.00	0.00

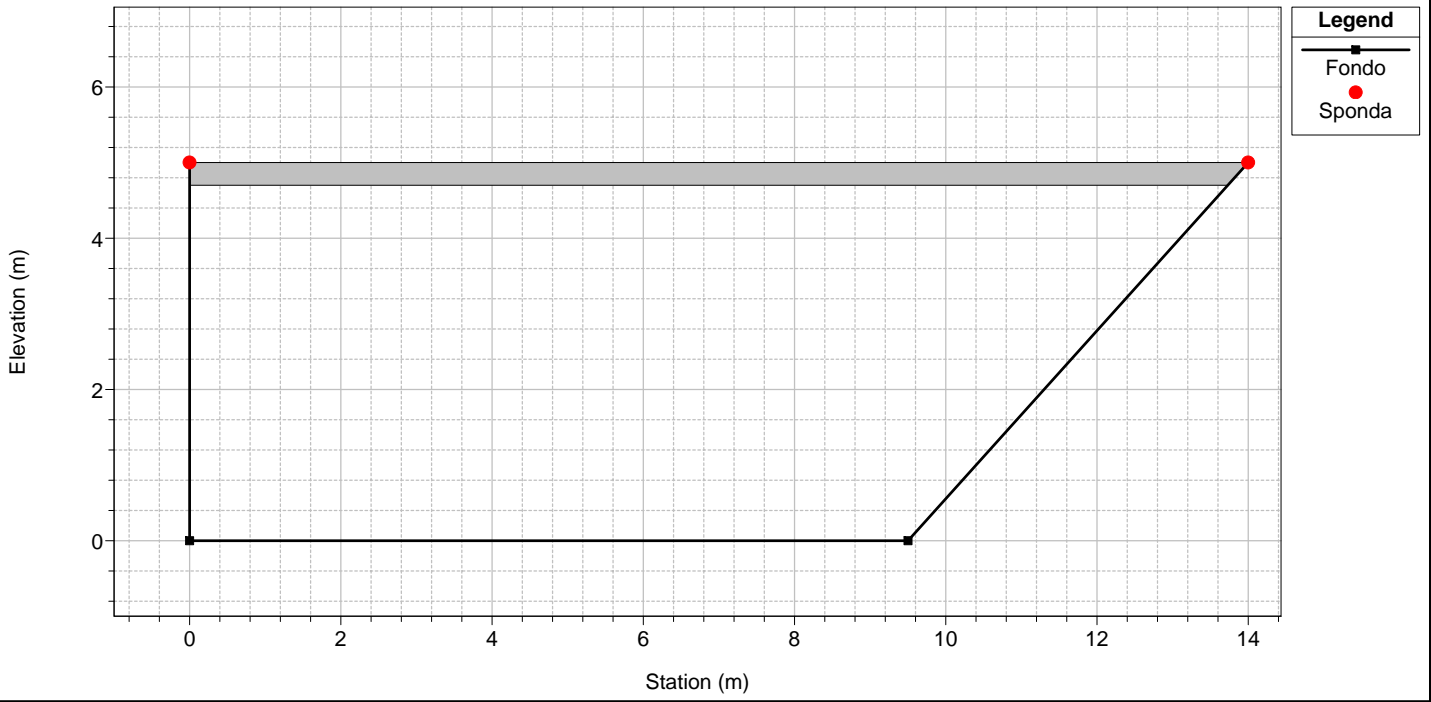
SCHEDA VERIFICA IDRAULICA DI TIPO PUNTUALE

Bacino:	T. Petronio
Sottobacino:	Rio Cacarello
Corso d'acqua:	Rio Cacarello
Località:	C. Barletta
Codice opera:	CA27
Descrizione:	Passerella
Sezione di riferimento:	27

Calcolo delle condizioni critiche

Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	14,00	14,00	14,00
Numero pile	np=	0	0	0
Spessore pile [m]	sp=	0,00	0,00	0,00
Larghezza netta [m]	Bo=	14,00	14,00	14,00
Portata [mc/s]	Q=	103	127	143
Rapporto di restringimento	r =	1,00	1,00	1,00
Numero di Froude limite	FL=	1,00	1,00	1,00
Coefficiente di forma delle pile	K=	1,000	1,000	1,000
Altezza pelo libero [m]	Y=	1,77	2,03	2,20
Area [mq]	A=	24,74	28,45	30,79
Perimetro bagnato [m]	P=	17,53	18,06	18,40
Raggio idraulico [m]	R=	1,41	1,57	1,67
Velocità media [m/s]	V=	4,16	4,46	4,64
Carico specifico [m]	E=	2,65	3,05	3,30
Numero di Froude	Fr=	1,00	1,00	1,00
Luce libera media [m]	H=	4,70	4,70	4,70
Franco [m]	f=	2,93	2,67	2,50
Verificata		SI	SI	SI

Rio Cacarello



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

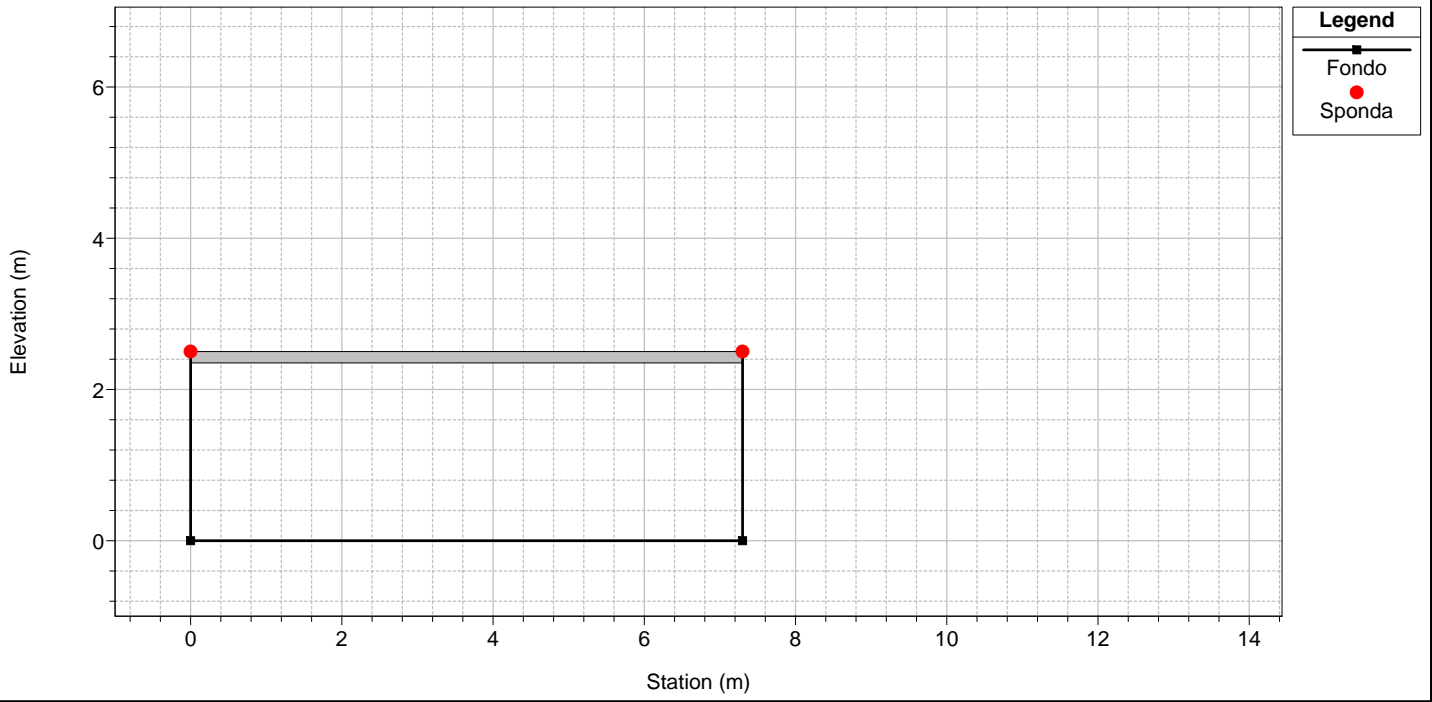
SCHEDA VERIFICA IDRAULICA DI TIPO PUNTUALE

Bacino:	T. Petronio
Sottobacino:	Rio Cacarello
Corso d'acqua:	Rio Cacarello
Località:	C. Barletta
Codice opera:	CA28
Descrizione:	Passerella
Sezione di riferimento:	27

Calcolo delle condizioni critiche

Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	7,30	7,30	7,30
Numero pile	np=	0	0	0
Spessore pile [m]	sp=	0,00	0,00	0,00
Larghezza netta [m]	Bo=	7,30	7,30	7,30
Portata [mc/s]	Q=	103	127	143
Rapporto di restringimento	r =	1,00	1,00	1,00
Numero di Froude limite	FL=	1,00	1,00	1,00
Coefficiente di forma delle pile	K=	1,000	1,000	1,000
Altezza pelo libero [m]	Y=	2,73	3,14	3,39
Area [mq]	A=	19,91	22,90	24,78
Perimetro bagnato [m]	P=	12,76	13,57	14,09
Raggio idraulico [m]	R=	1,56	1,69	1,76
Velocità media [m/s]	V=	5,17	5,55	5,77
Carico specifico [m]	E=	4,09	4,70	5,09
Numero di Froude	Fr=	1,00	1,00	1,00
Luce libera media [m]	H=	2,35	2,35	2,35
Franco [m]	f=	-0,38	-0,79	-1,04
Verificata		NO	NO	NO

Rio Cacarello



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

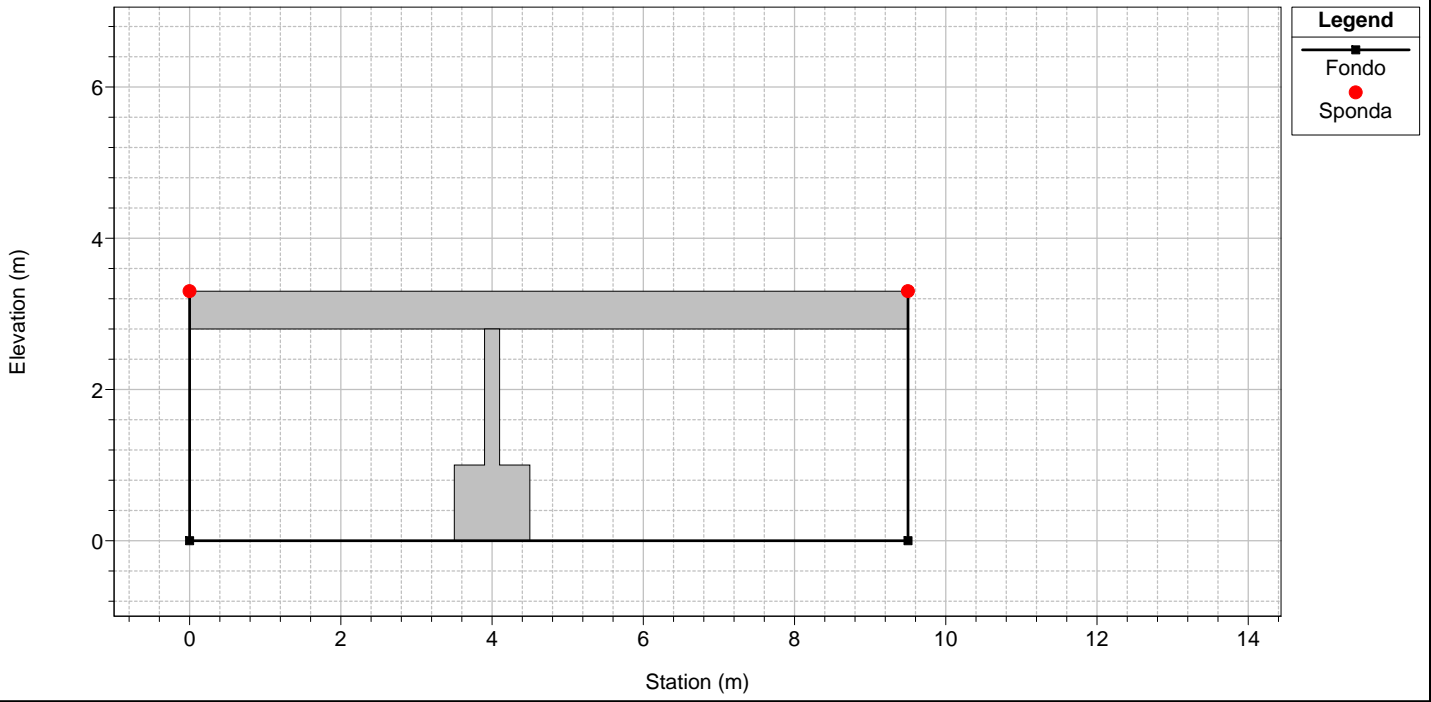
SCHEDA VERIFICA IDRAULICA DI TIPO PUNTUALE

Bacino:	T. Petronio
Sottobacino:	Rio Cacarello
Corso d'acqua:	Rio Cacarello
Località:	C. Barletta
Codice opera:	CA29
Descrizione:	Ponte
Sezione di riferimento:	27

Calcolo delle condizioni critiche

Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	9,50	9,50	9,50
Numero pile	np=	1	1	1
Spessore pile [m]	sp=	0,20	0,20	0,20
Larghezza netta [m]	Bo=	9,30	9,30	9,30
Portata [mc/s]	Q=	103	127	143
Rapporto di restringimento	r =	0,98	0,98	0,98
Numero di Froude limite	FL=	0,90	0,90	0,90
Coefficiente di forma delle pile	K=	1,085	1,085	1,085
Altezza pelo libero [m]	Y=	2,66	3,06	3,31
Area [mq]	A=	25,30	29,10	31,49
Perimetro bagnato [m]	P=	14,83	15,63	16,13
Raggio idraulico [m]	R=	1,71	1,86	1,95
Velocità media [m/s]	V=	4,07	4,36	4,54
Carico specifico [m]	E=	3,51	4,03	4,37
Numero di Froude	Fr=	0,80	0,80	0,80
Luce libera media [m]	H=	2,80	2,80	2,80
Franco [m]	f=	0,14	-0,26	-0,51
Verificata		SI	NO	NO

Rio Cacarello



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