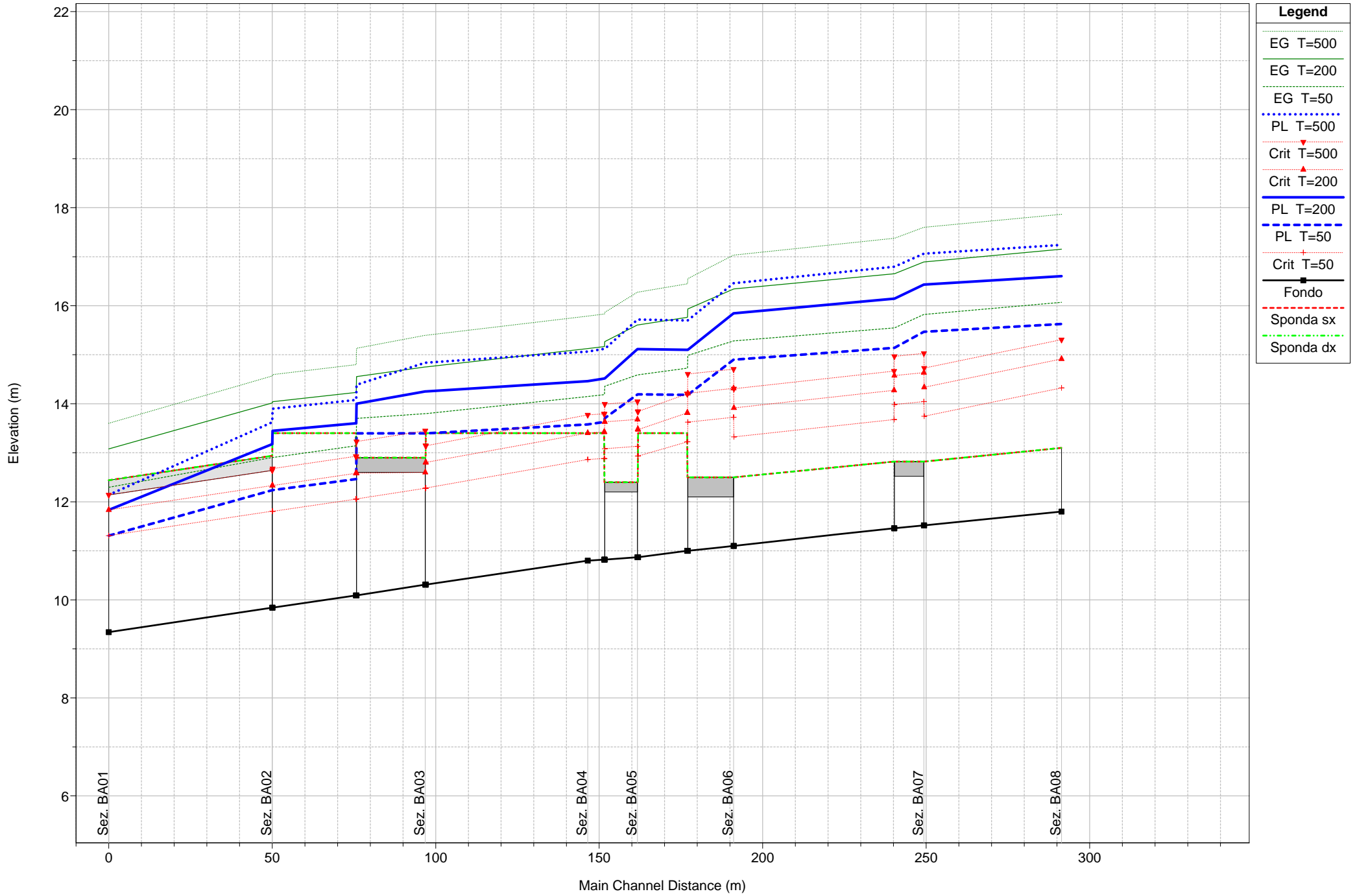


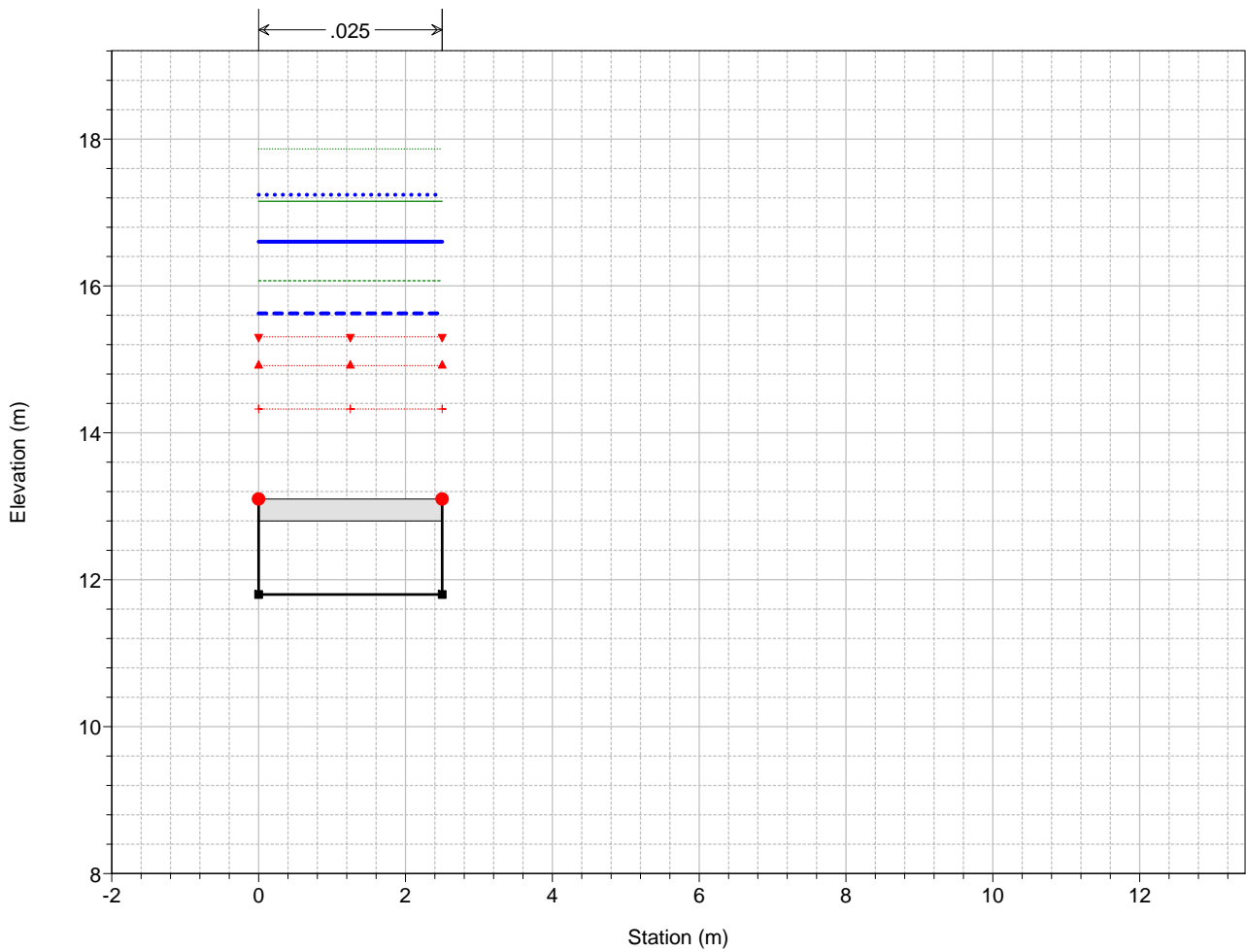
T. Battana



Legend	
EG T=500	Solid green line
EG T=200	Dotted green line
EG T=50	Dotted light green line
PL T=500	Dotted blue line
Crit T=500	Dotted red line with downward triangles
Crit T=200	Dotted red line with upward triangles
PL T=200	Solid blue line
PL T=50	Dashed blue line
Crit T=50	Dotted red line with plus signs
Fondo	Solid black line with square markers
Sponda sx	Dashed red line
Sponda dx	Dashed green line

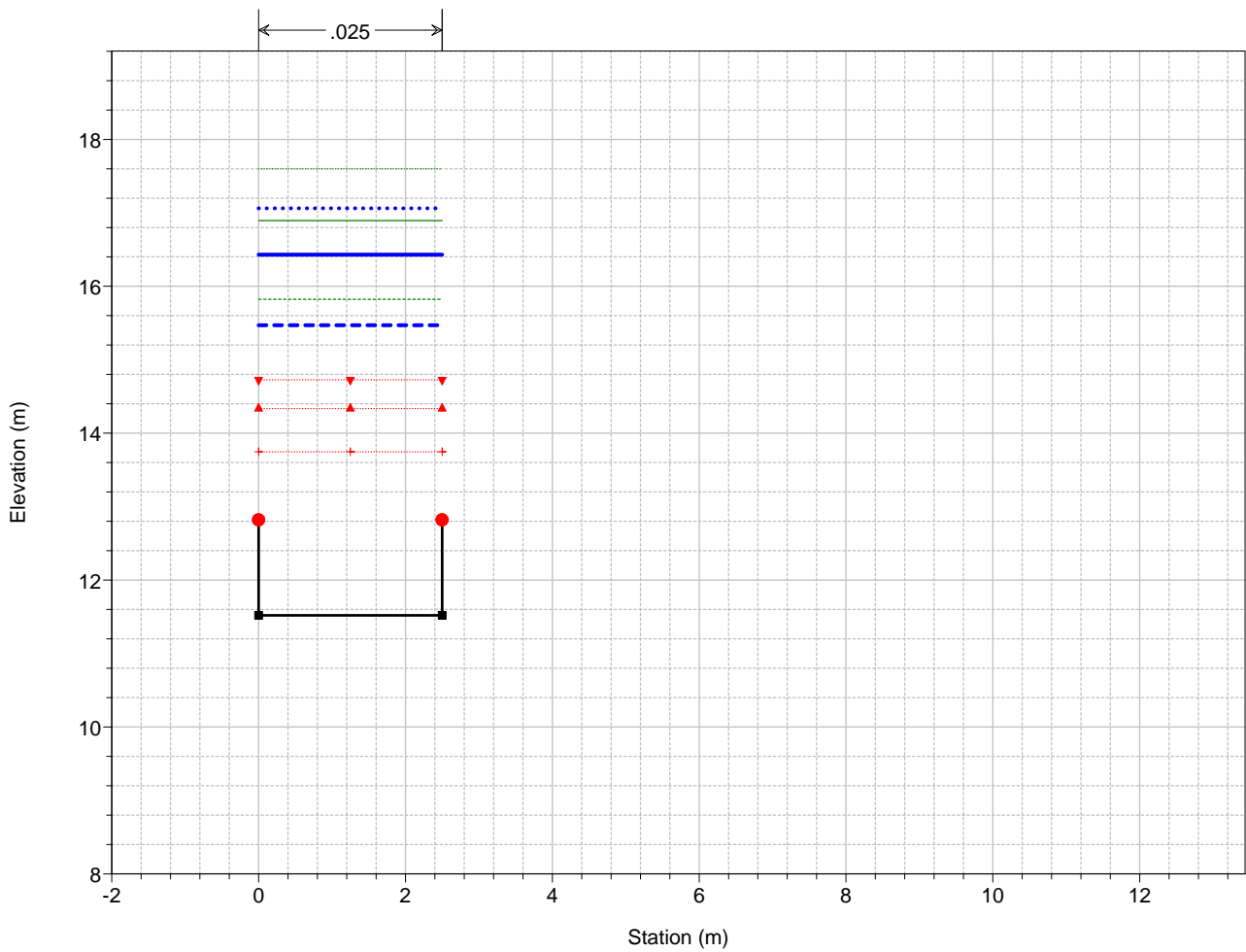
1 cm Horiz. = 15 m 1 cm Vert. = 1 m

T. Battana
Sez. BA08



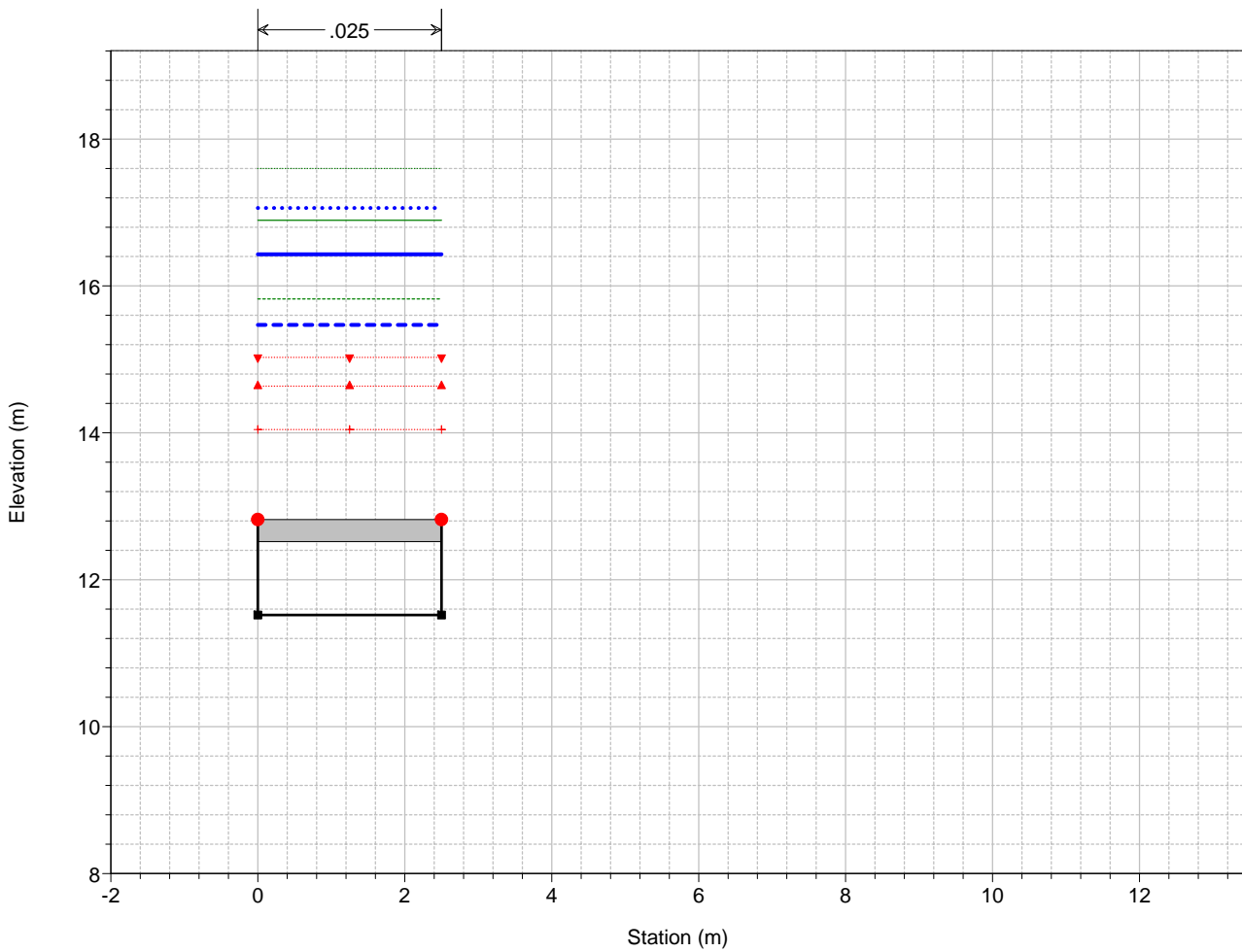
Legend	
EG T=500	PL T=500
EG T=200	PL T=200
EG T=50	PL T=50
Crit T=500	Crit T=200
Crit T=50	Fondo
Sponda	

T. Battana



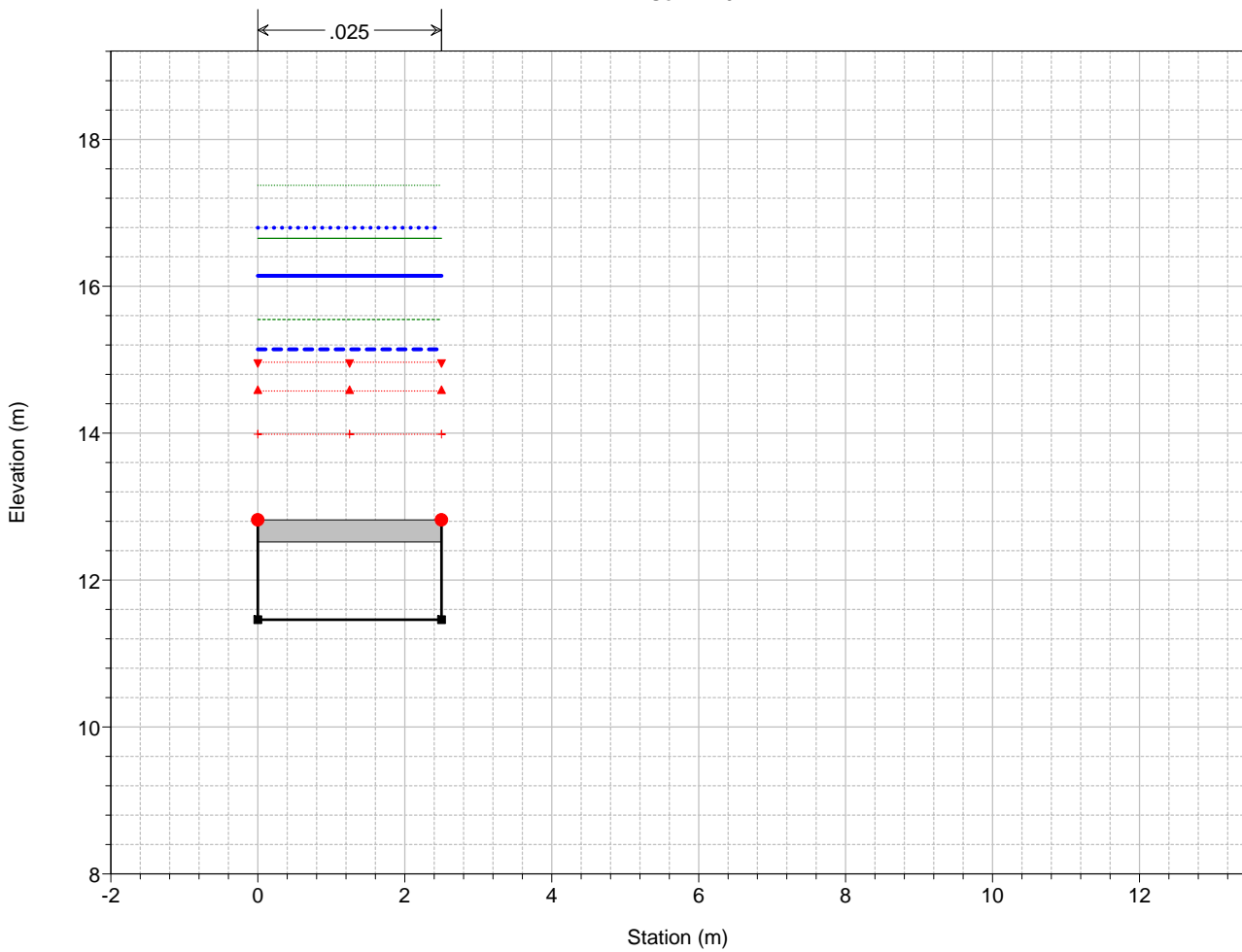
Legend	
EG T=500	PL T=500
EG T=200	PL T=200
EG T=50	PL T=50
Crit T=500	Crit T=200
Crit T=50	Fondo
Sponda	

T. Battana
Sez. BA07



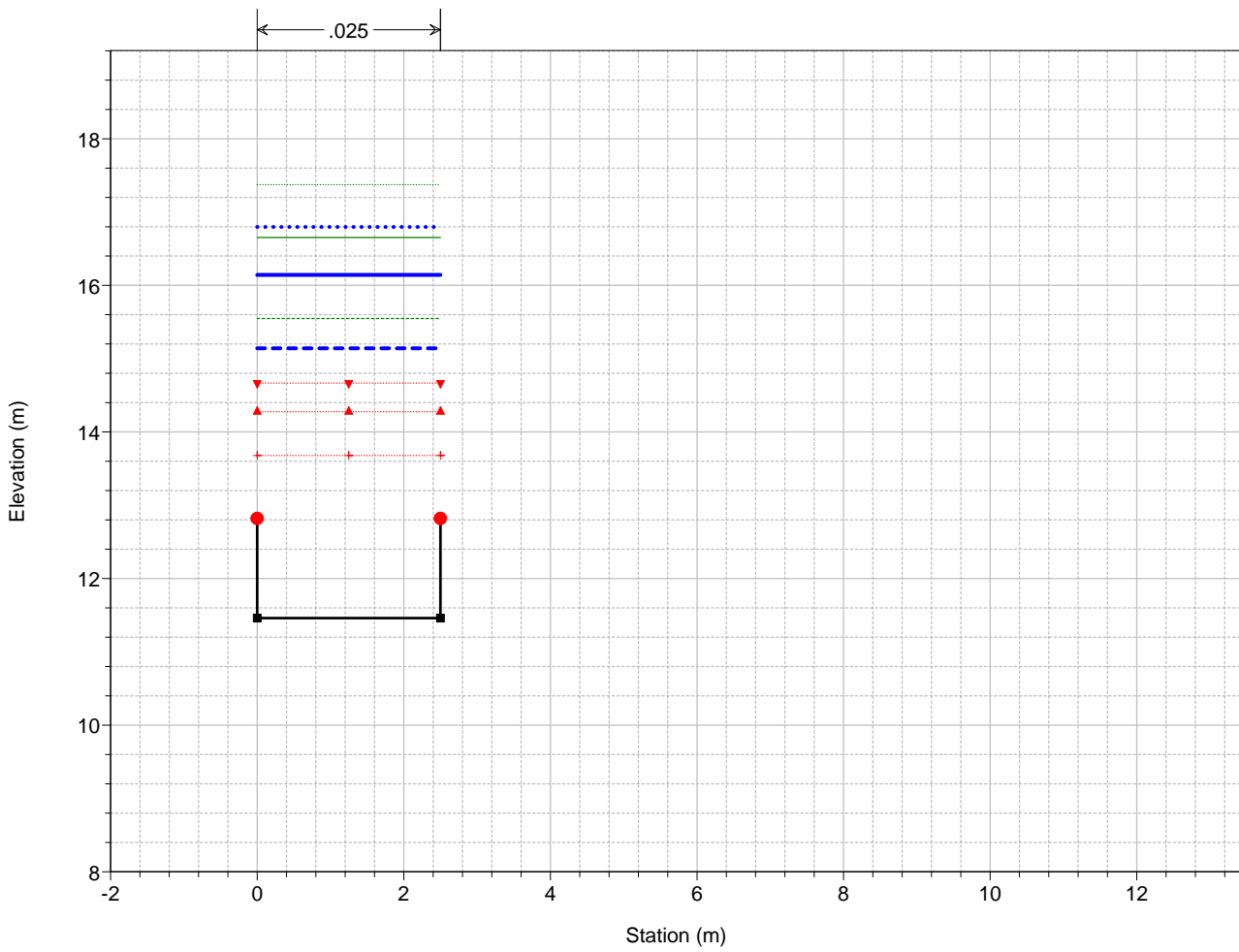
Legend	
EG T=500	(Green dotted line)
PL T=500	(Blue dotted line)
EG T=200	(Green solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus)
Fondo	(Black square)
Sponda	(Red circle)

T. Battana
Sez. BA07



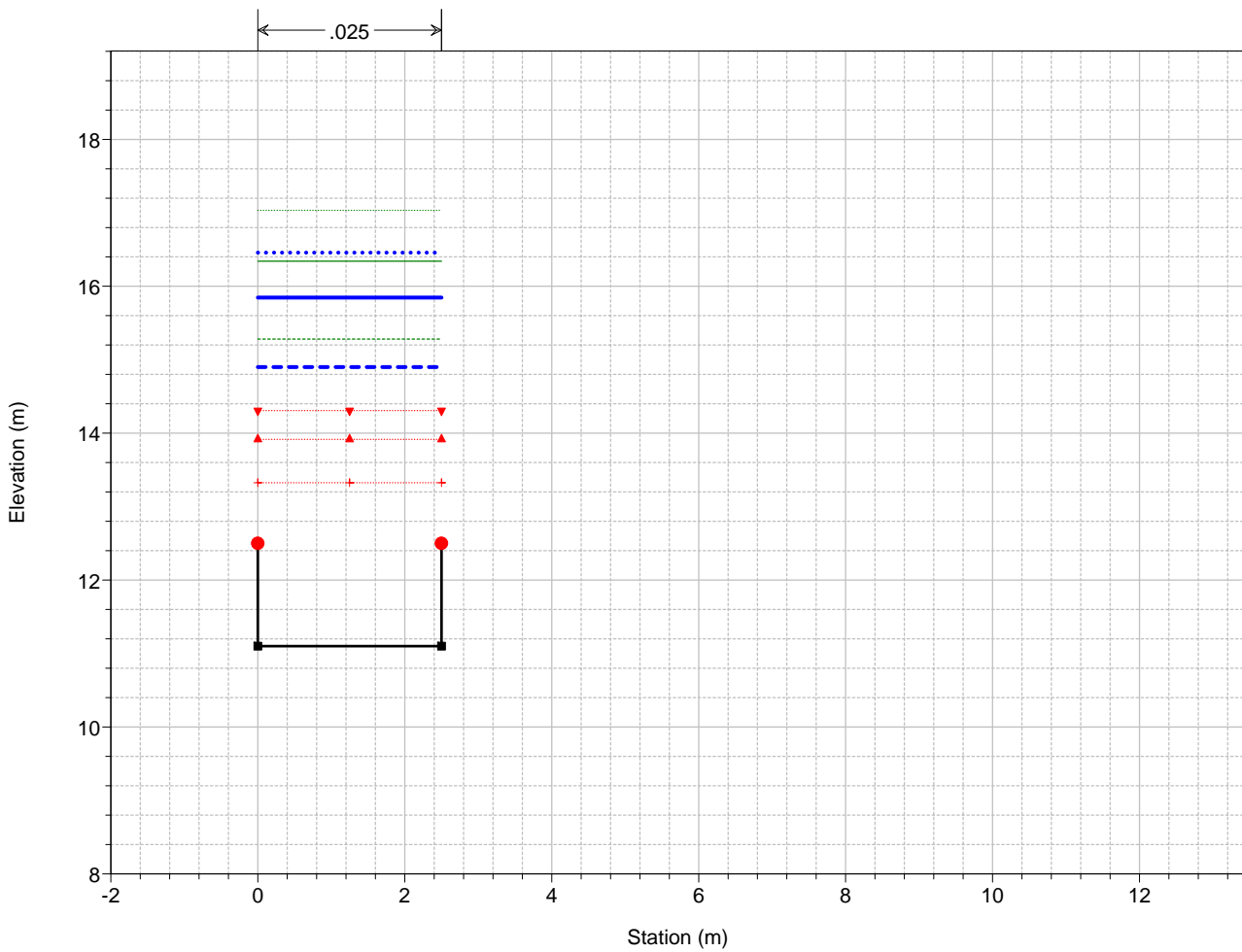
Legend	
EG T=500	(Green dotted line)
PL T=500	(Blue dotted line)
EG T=200	(Green solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus)
Fondo	(Black square)
Sponda	(Red circle)

T. Battana



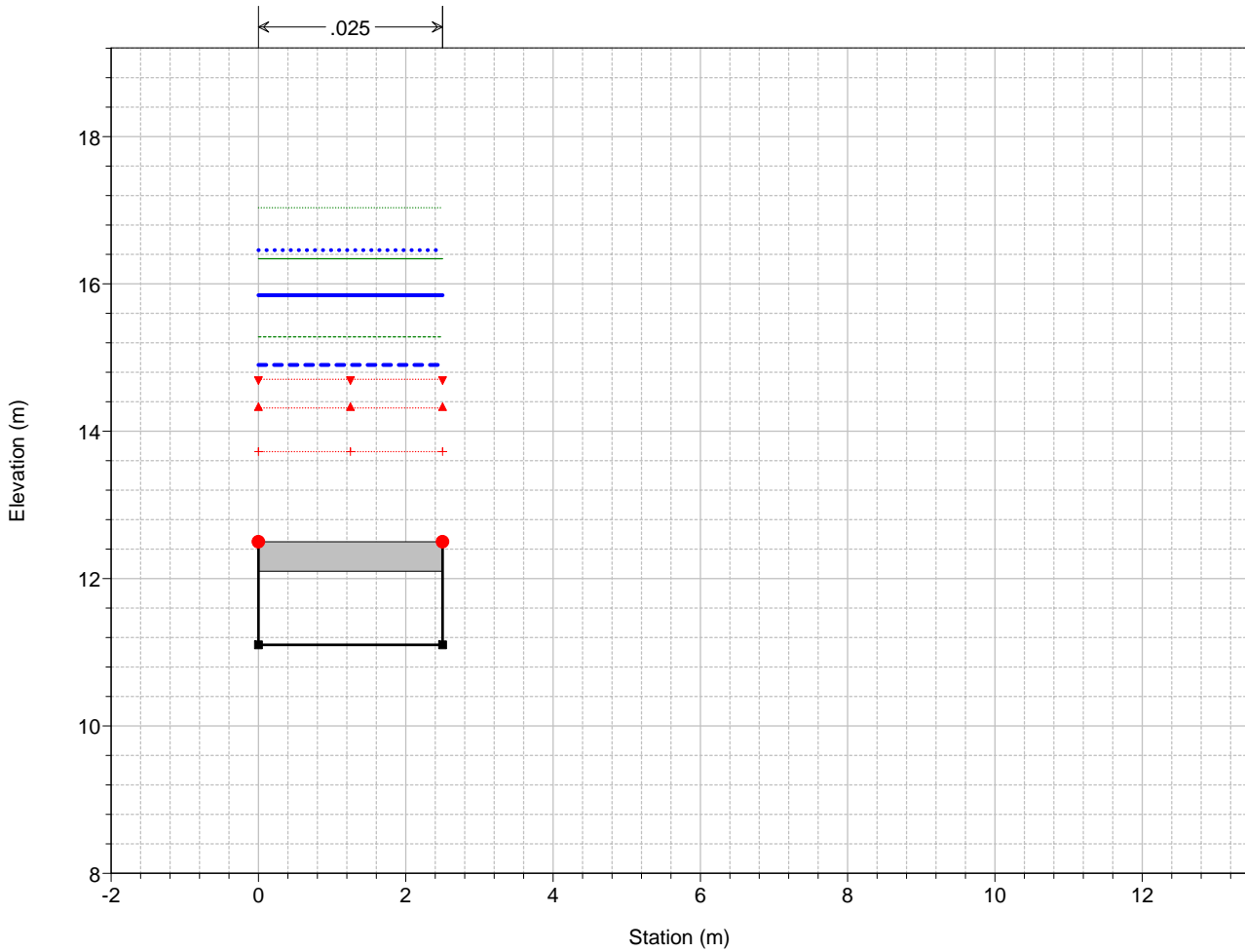
Legend	
EG T=500	(Dotted Green Line)
PL T=500	(Dotted Blue Line)
EG T=200	(Solid Blue Line)
PL T=200	(Dashed Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Dotted Red Line with inverted triangles)
Crit T=200	(Dotted Red Line with triangles)
Crit T=50	(Dotted Red Line with pluses)
Fondo	(Solid Black Line with squares)
Sponda	(Solid Black Line with circles)

T. Battana



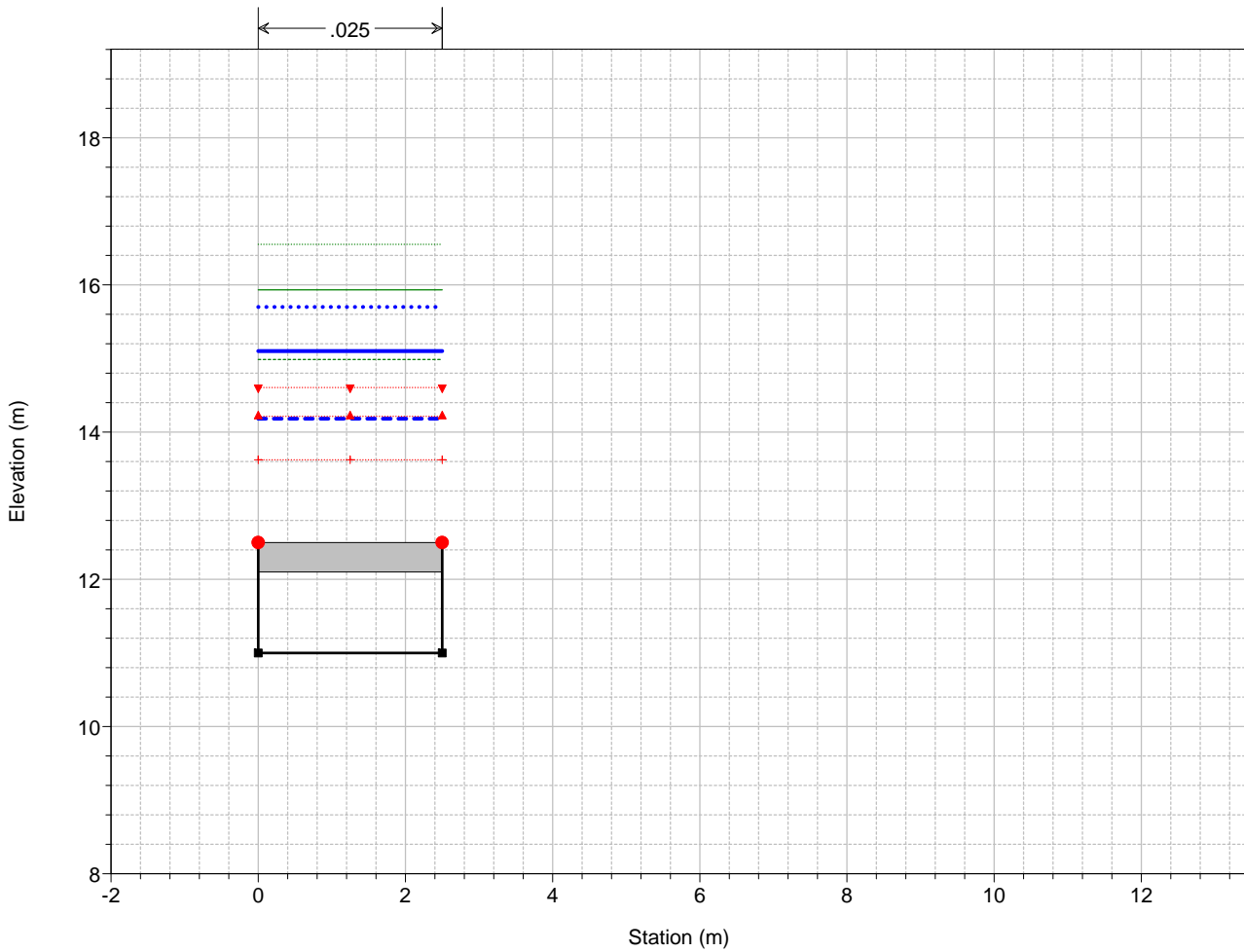
Legend	
EG T=500	(Dotted Green Line)
PL T=500	(Dotted Blue Line)
EG T=200	(Solid Blue Line)
PL T=200	(Dashed Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Dotted Red Line with inverted triangles)
Crit T=200	(Dotted Red Line with triangles)
Crit T=50	(Dotted Red Line with pluses)
Fondo	(Solid Black Line with squares)
Sponda	(Solid Black Line with circles)

T. Battana
Sez. BA06



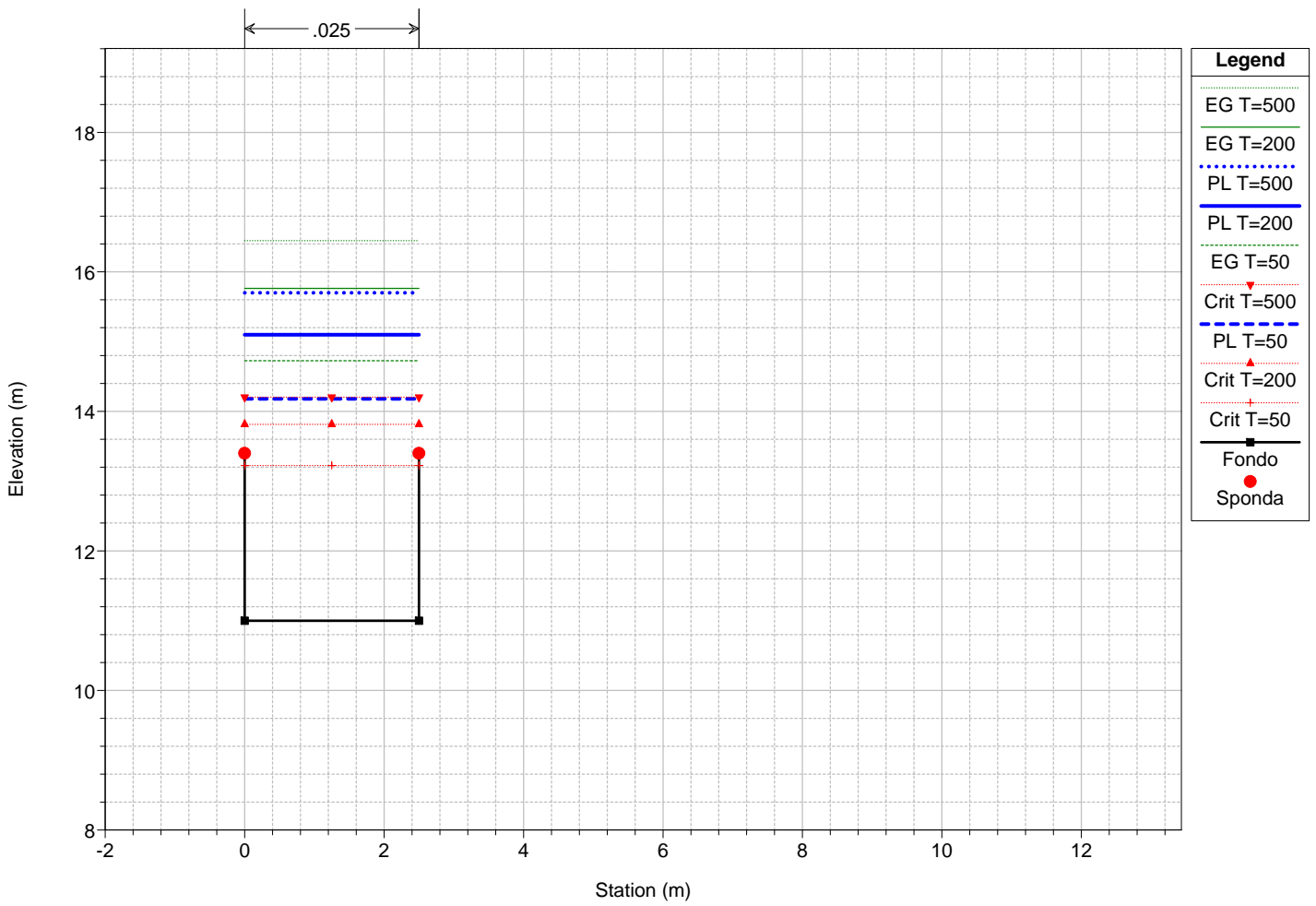
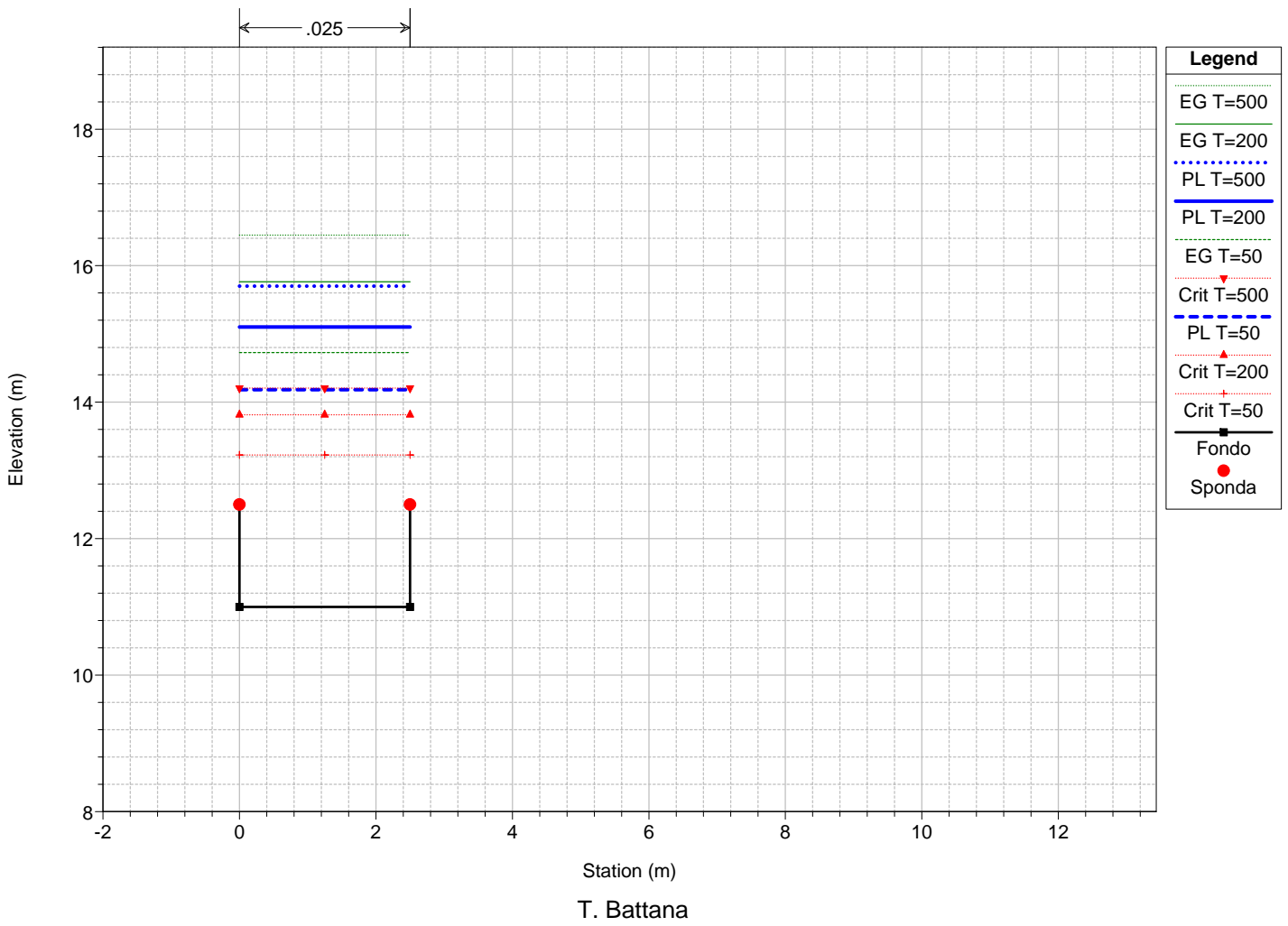
Legend	
EG T=500	(Dotted Green Line)
PL T=500	(Dotted Blue Line)
EG T=200	(Solid Green Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dashed Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Red Inverted Triangle)
Crit T=200	(Red Triangle)
Crit T=50	(Red Plus Sign)
Fondo	(Black Square)
Sponda	(Red Circle)

T. Battana
Sez. BA06

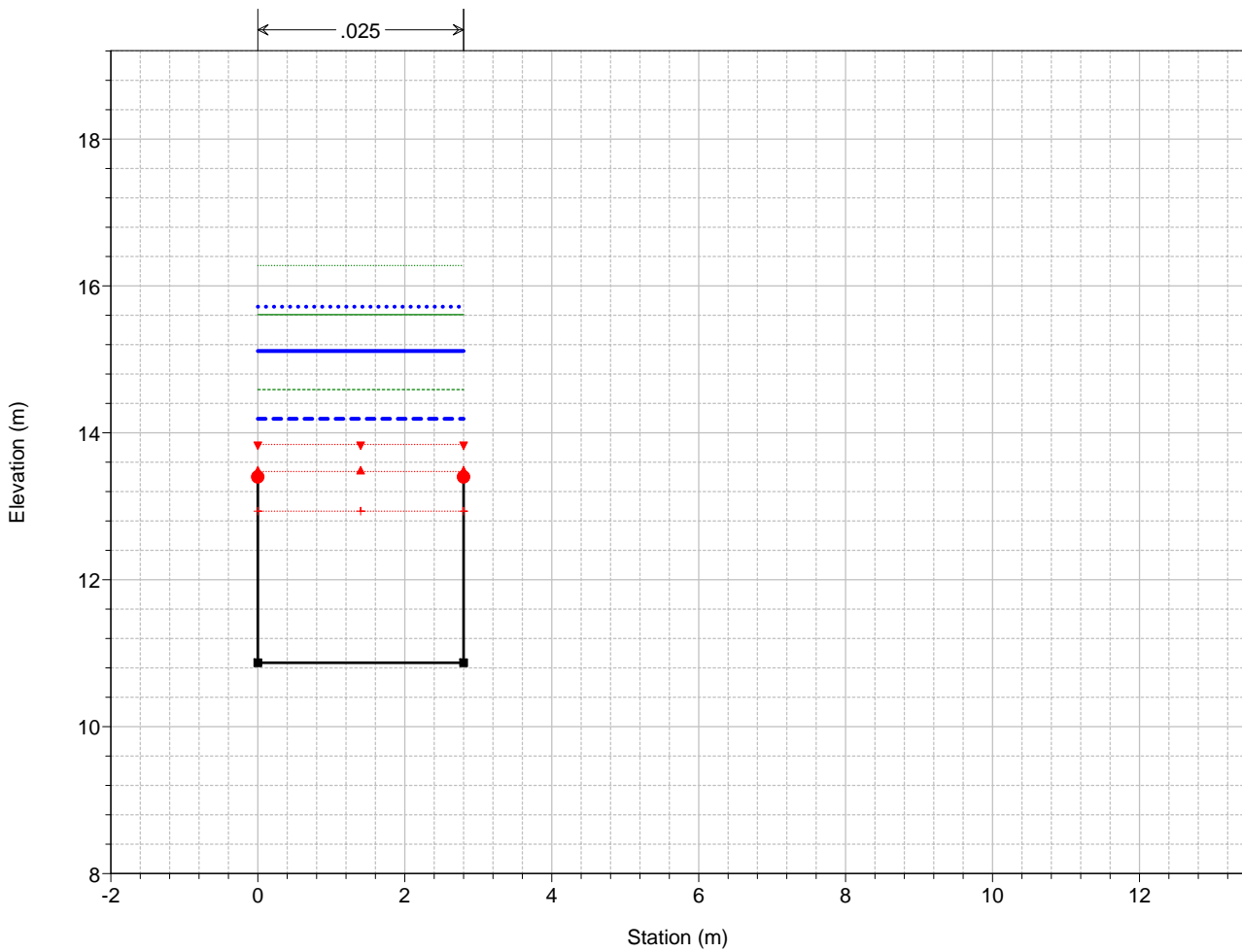


Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Dotted Blue Line)
PL T=500	(Dotted Blue Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dashed Green Line)
Crit T=500	(Red Inverted Triangle)
Crit T=200	(Red Triangle)
PL T=50	(Dashed Blue Line)
Crit T=50	(Red Plus Sign)
Fondo	(Black Square)
Sponda	(Red Circle)

T. Battana

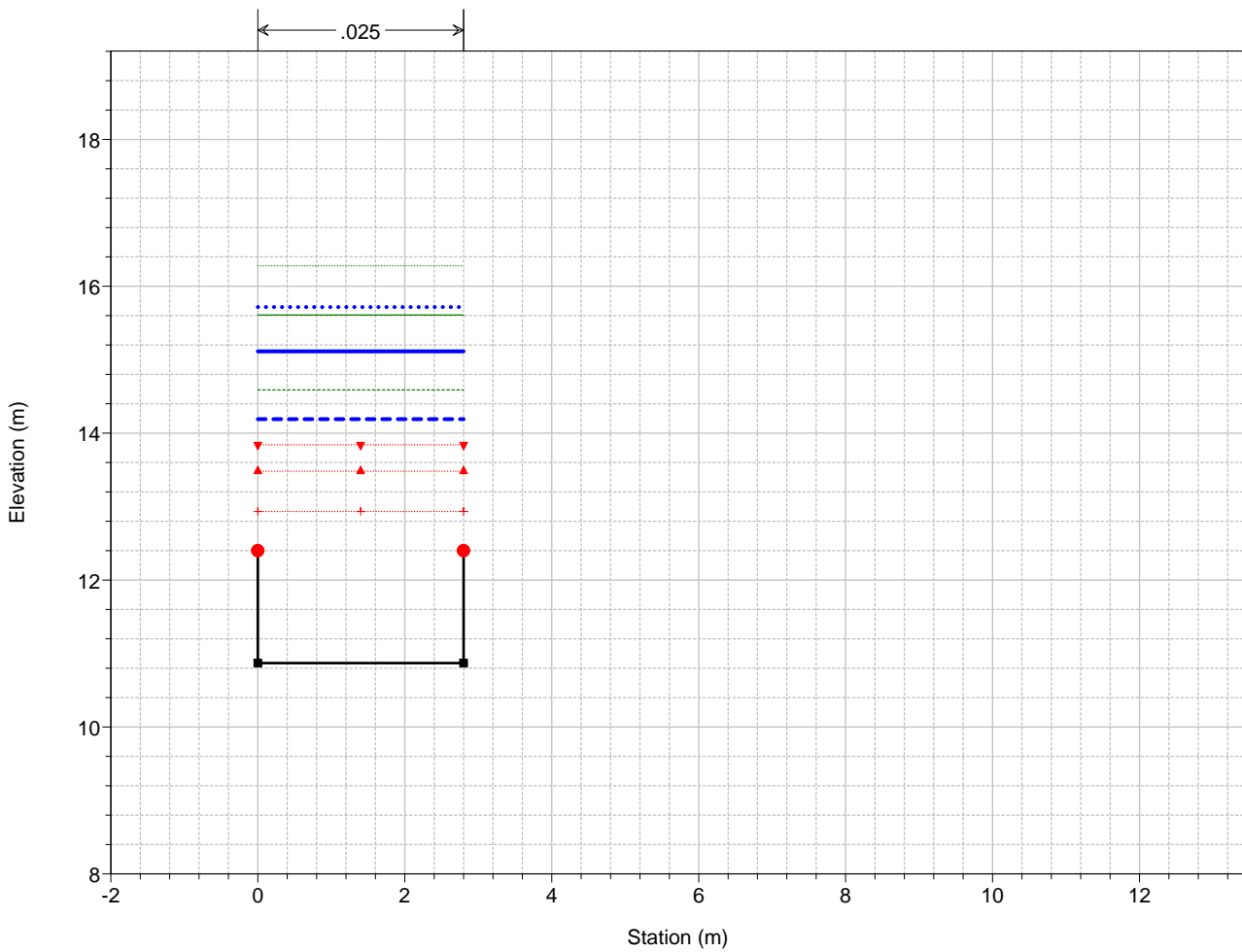


T. Battana



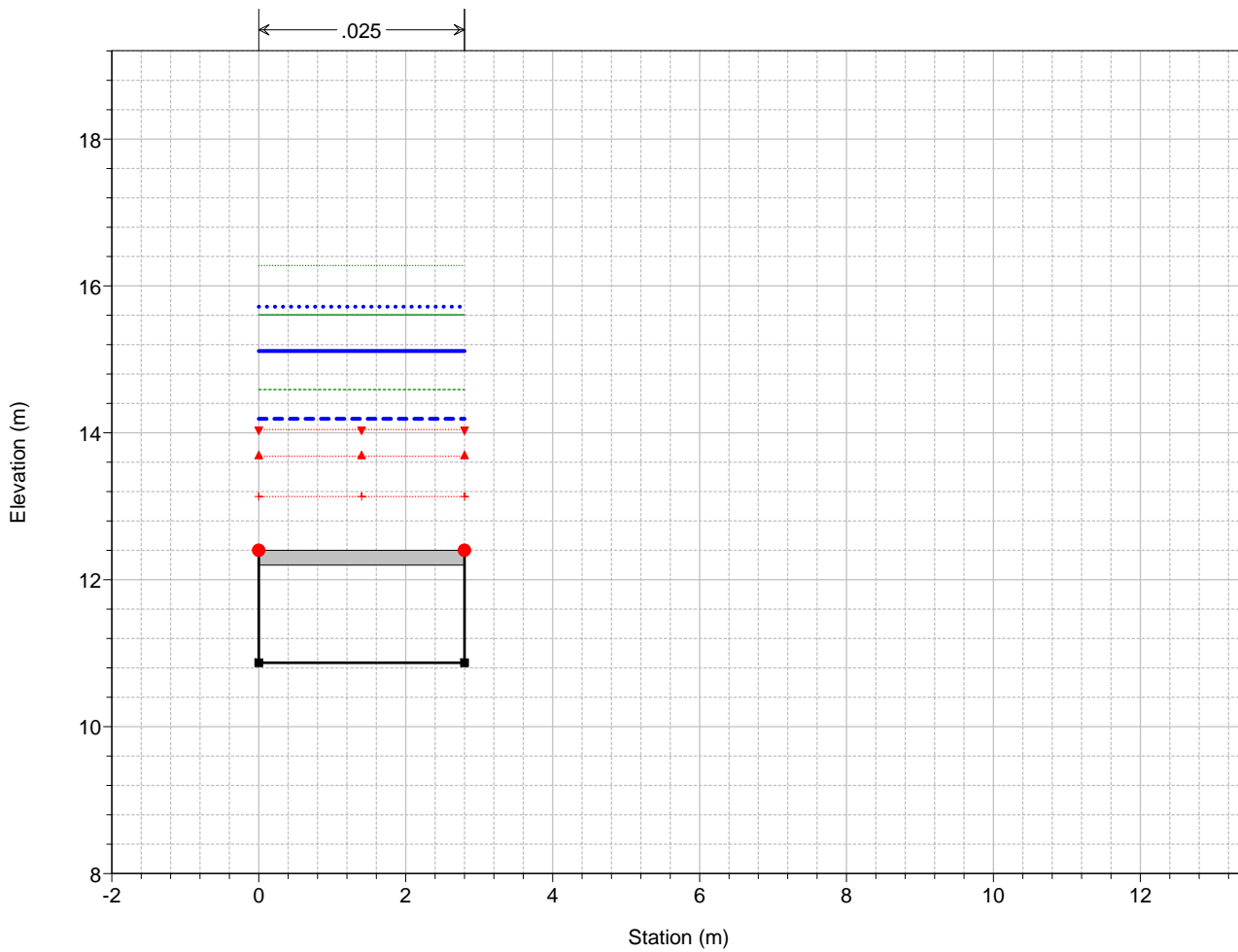
Legend	
EG T=500	PL T=500
EG T=200	PL T=200
EG T=50	PL T=50
Crit T=500	Crit T=200
Crit T=50	Fondo
Sponda	

T. Battana



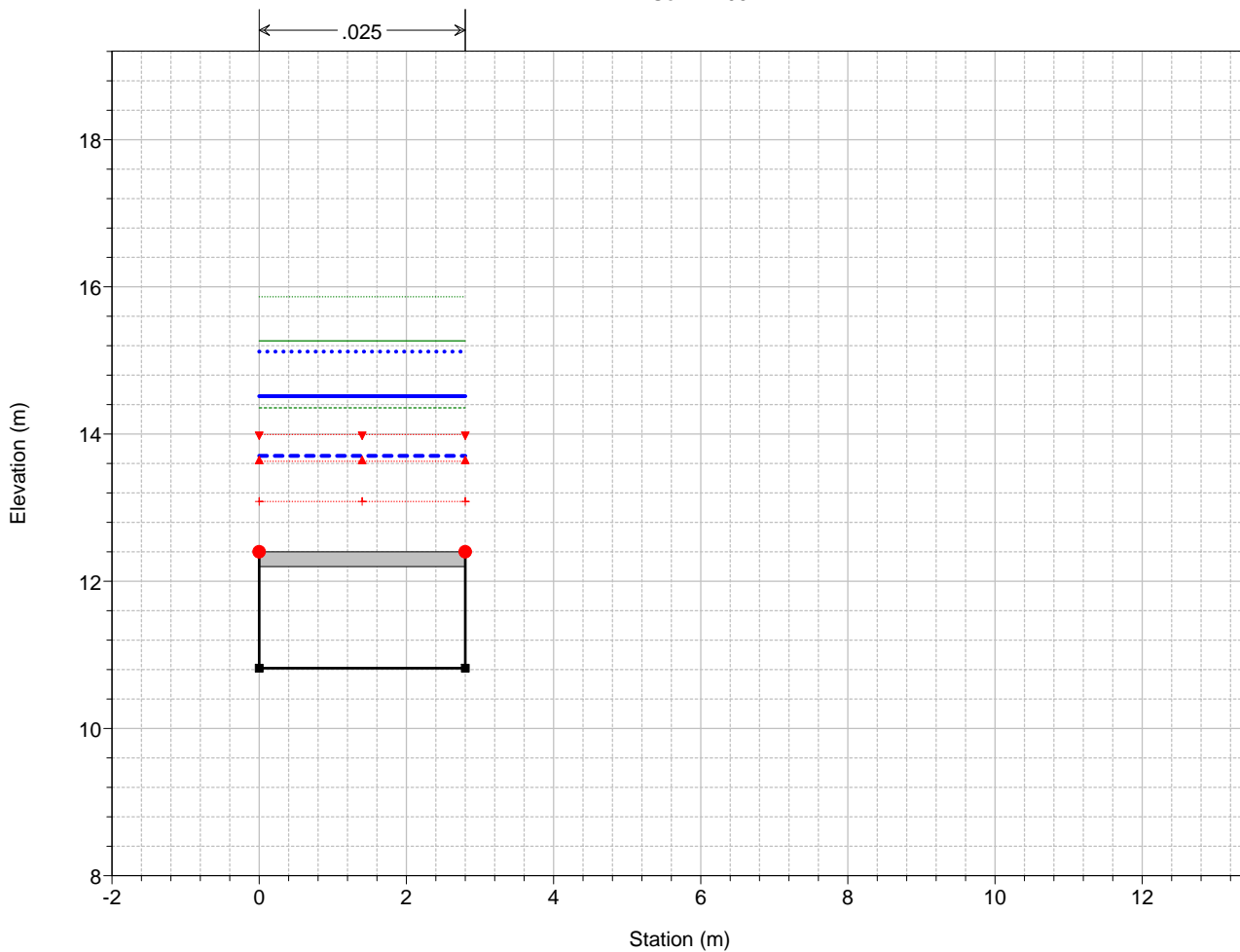
Legend	
EG T=500	PL T=500
EG T=200	PL T=200
EG T=50	PL T=50
Crit T=500	Crit T=200
Crit T=50	Fondo
Sponda	

T. Battana
Sez. BA05



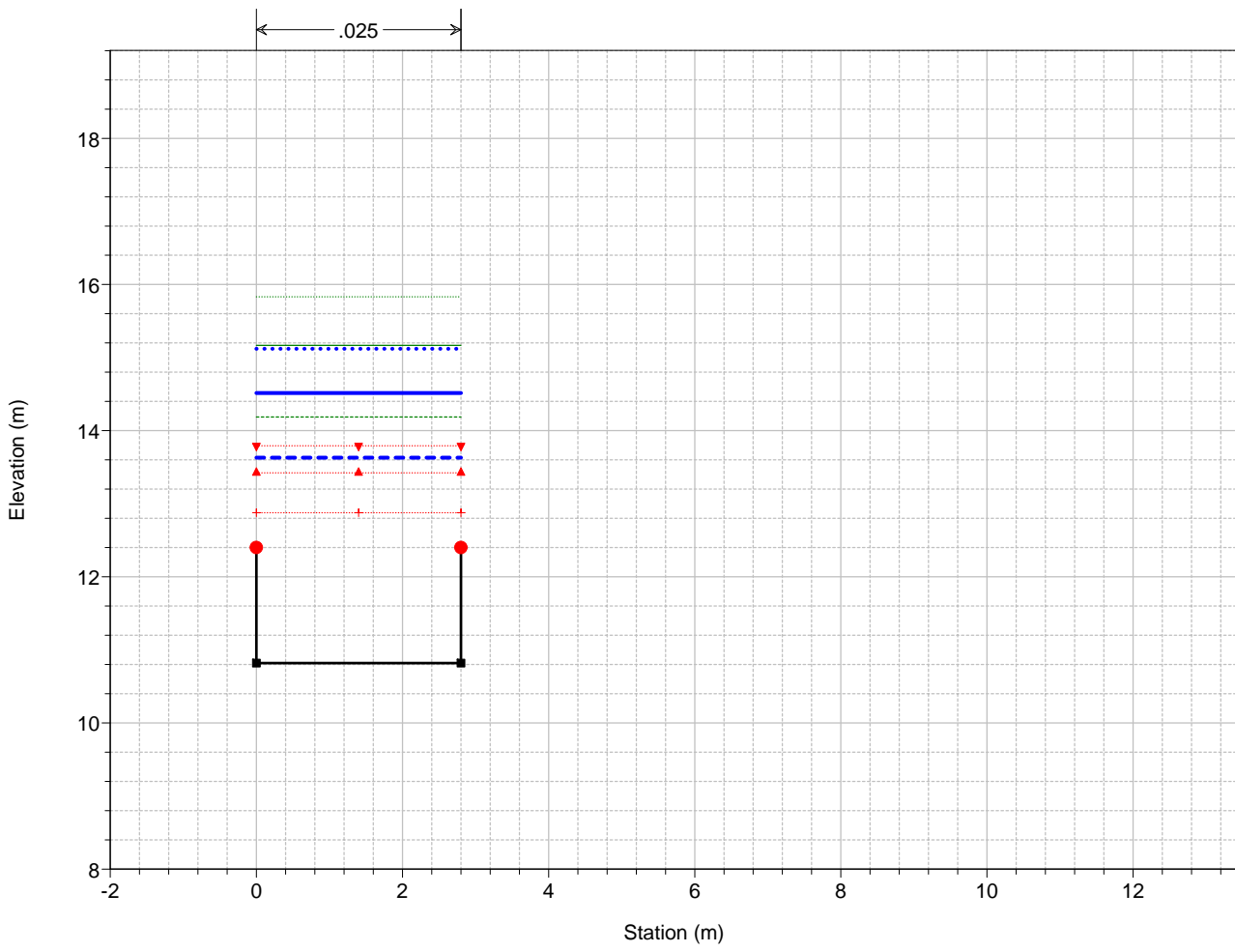
Legend	
EG T=500	(Green dotted line)
PL T=500	(Blue dotted line)
EG T=200	(Green solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red dotted line with downward triangle)
Crit T=200	(Red dotted line with upward triangle)
Crit T=50	(Red dotted line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

T. Battana
Sez. BA05



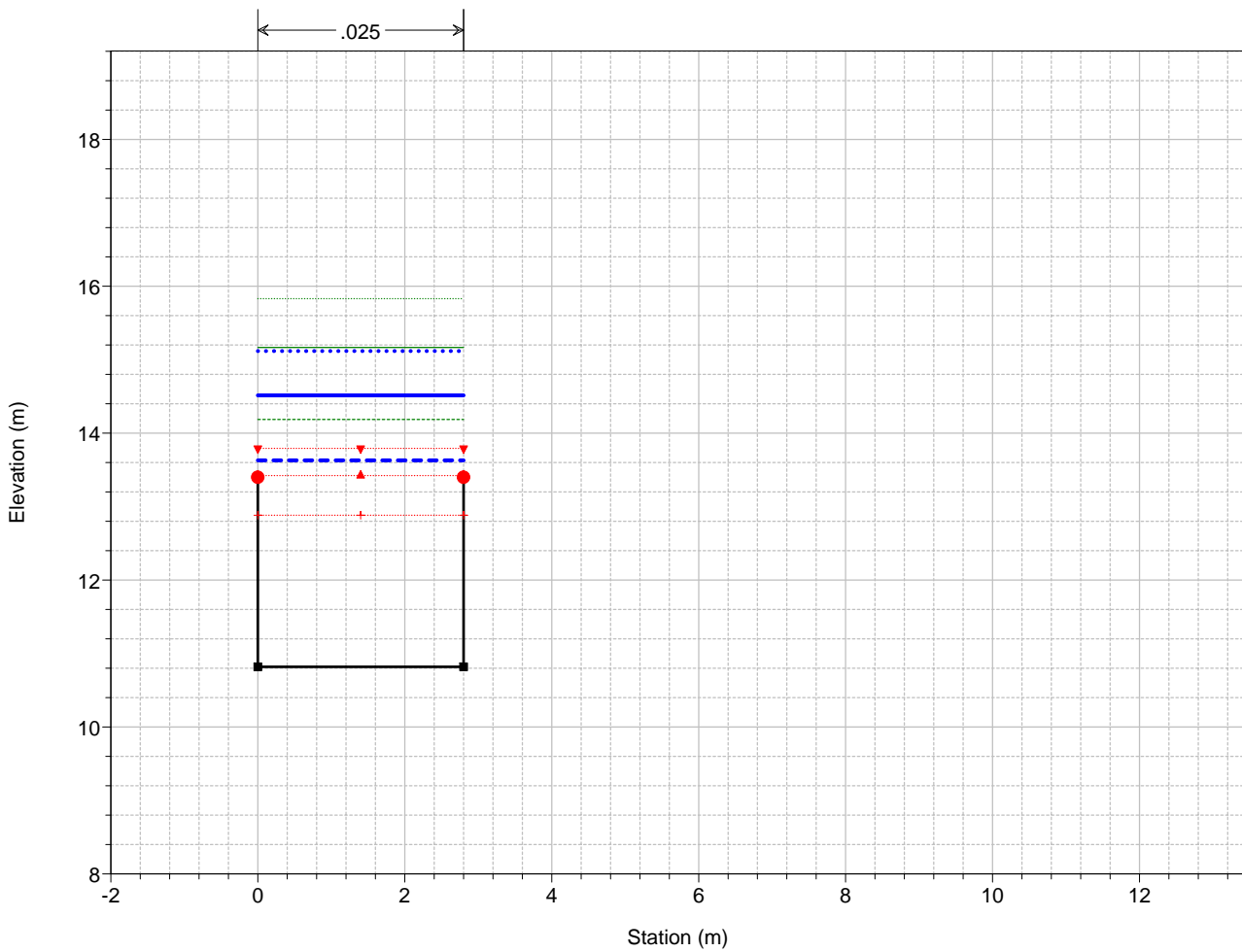
Legend	
EG T=500	(Green dotted line)
EG T=200	(Green solid line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
Crit T=500	(Red dotted line with downward triangle)
PL T=50	(Blue dashed line)
Crit T=200	(Red dotted line with upward triangle)
Crit T=50	(Red dotted line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

T. Battana



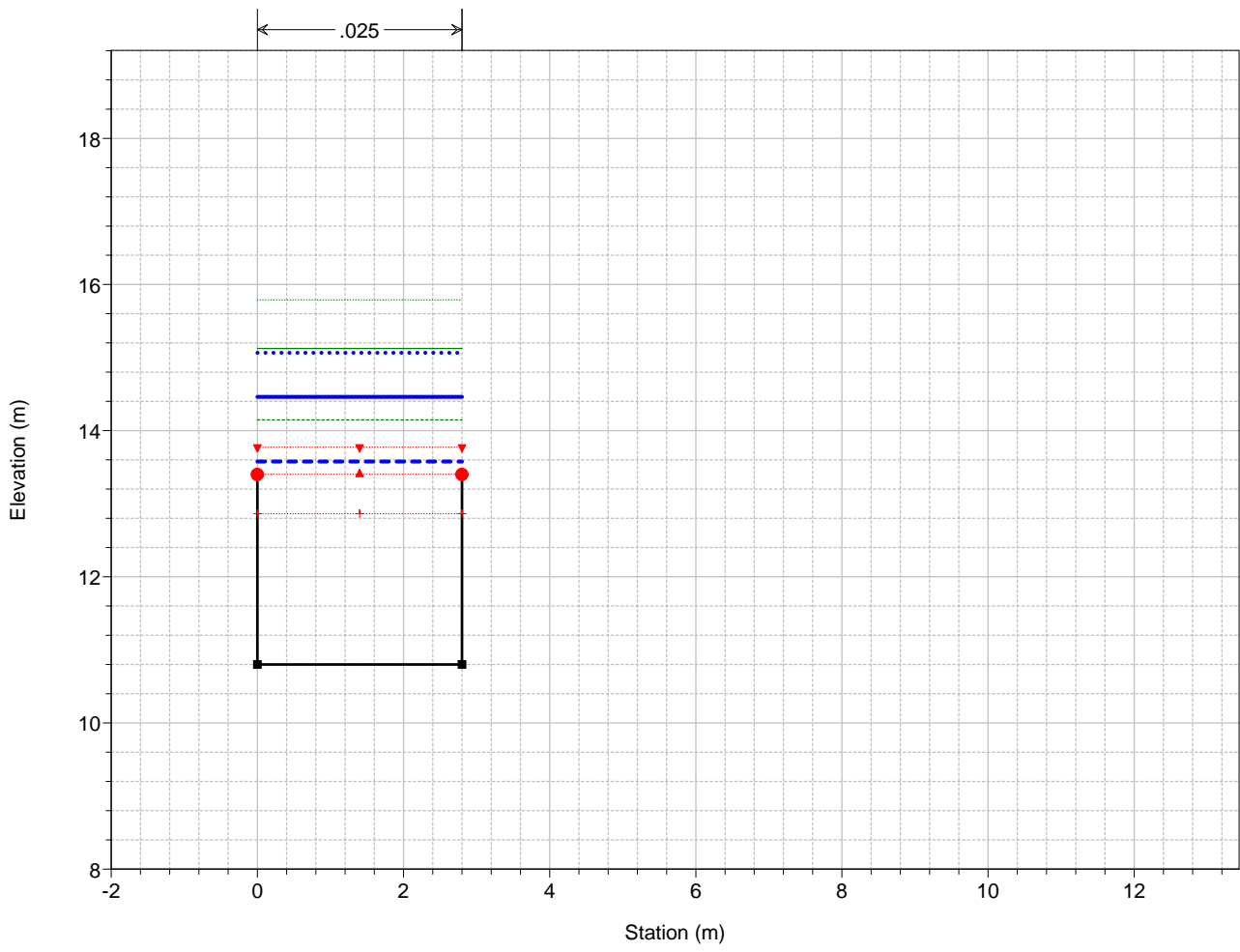
Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
Crit T=500	(Red inverted triangle)
PL T=50	(Blue dashed line)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black square)
Sponda	(Red circle)

T. Battana



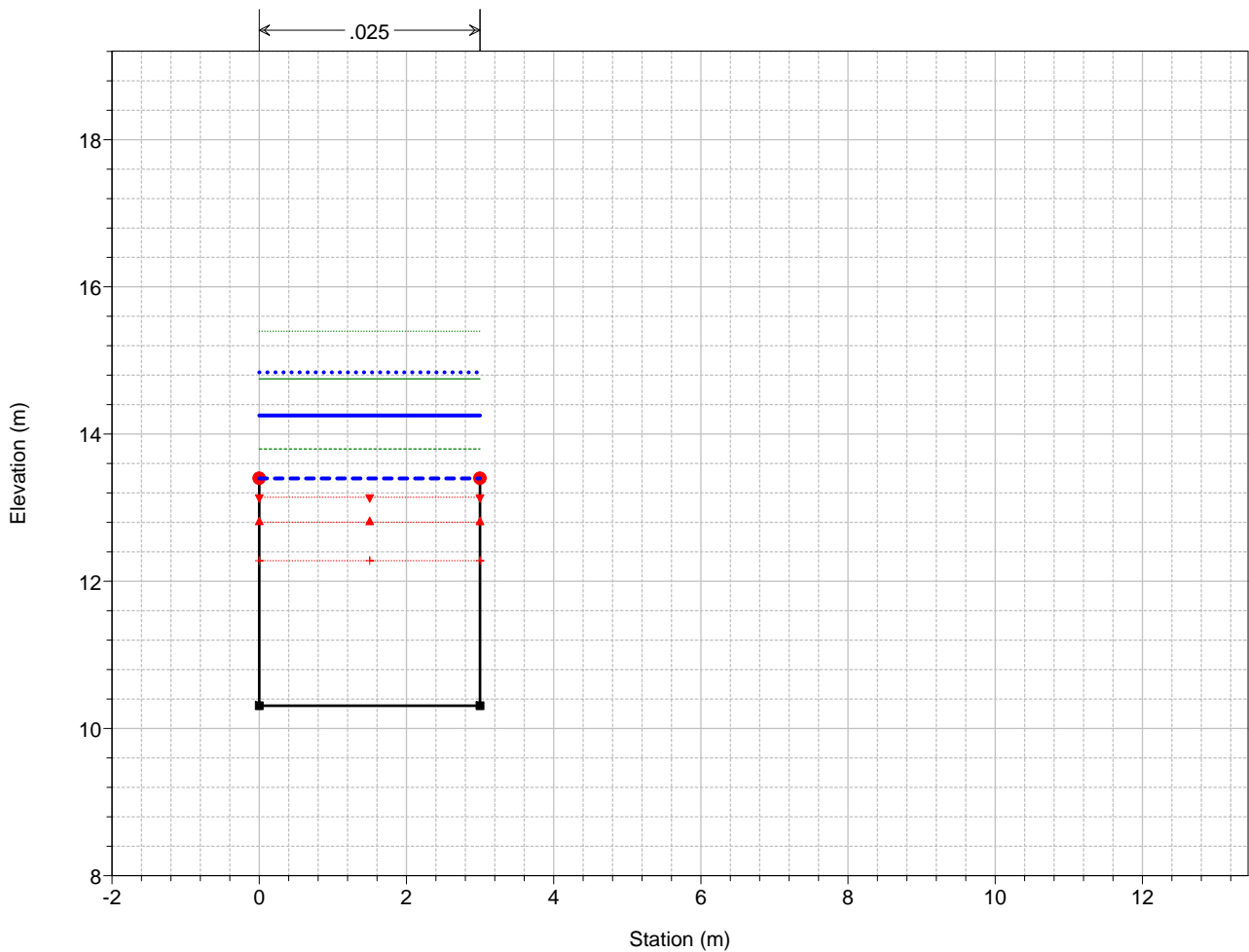
Legend	
EG T=500	(Green dotted line)
EG T=200	(Blue dotted line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
Crit T=500	(Red inverted triangle)
PL T=50	(Blue dashed line)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black square)
Sponda	(Red circle)

T. Battana
Sez. BA04



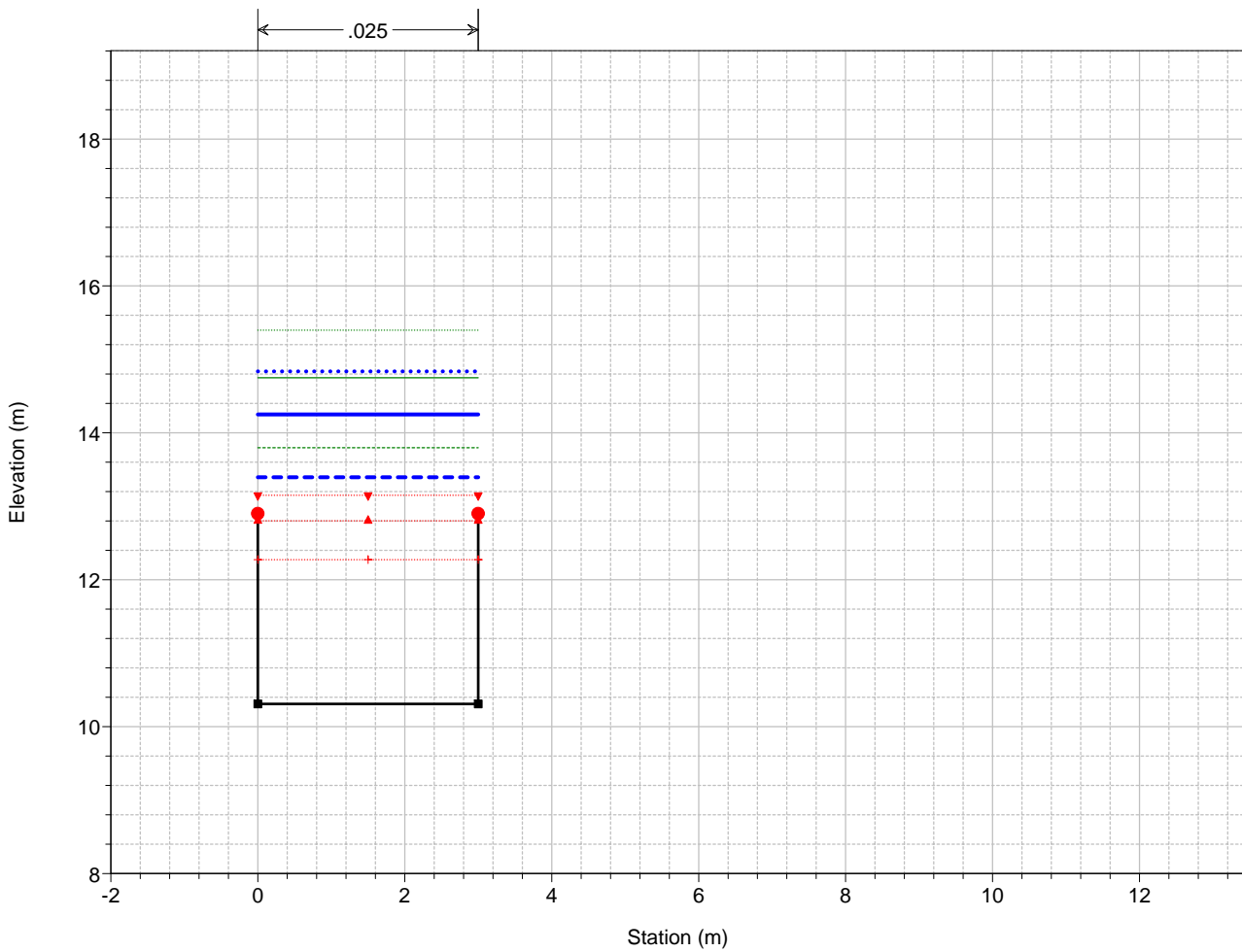
Legend	
EG T=500	(Dotted green line)
EG T=200	(Dotted blue line)
PL T=500	(Dotted blue line)
PL T=200	(Solid blue line)
EG T=50	(Dotted green line)
Crit T=500	(Dotted red line with inverted triangles)
PL T=50	(Dashed blue line)
Crit T=200	(Dotted red line with triangles)
Crit T=50	(Dotted red line with pluses)
Fondo	(Solid black line)
Sponda	(Red circle)

T. Battana



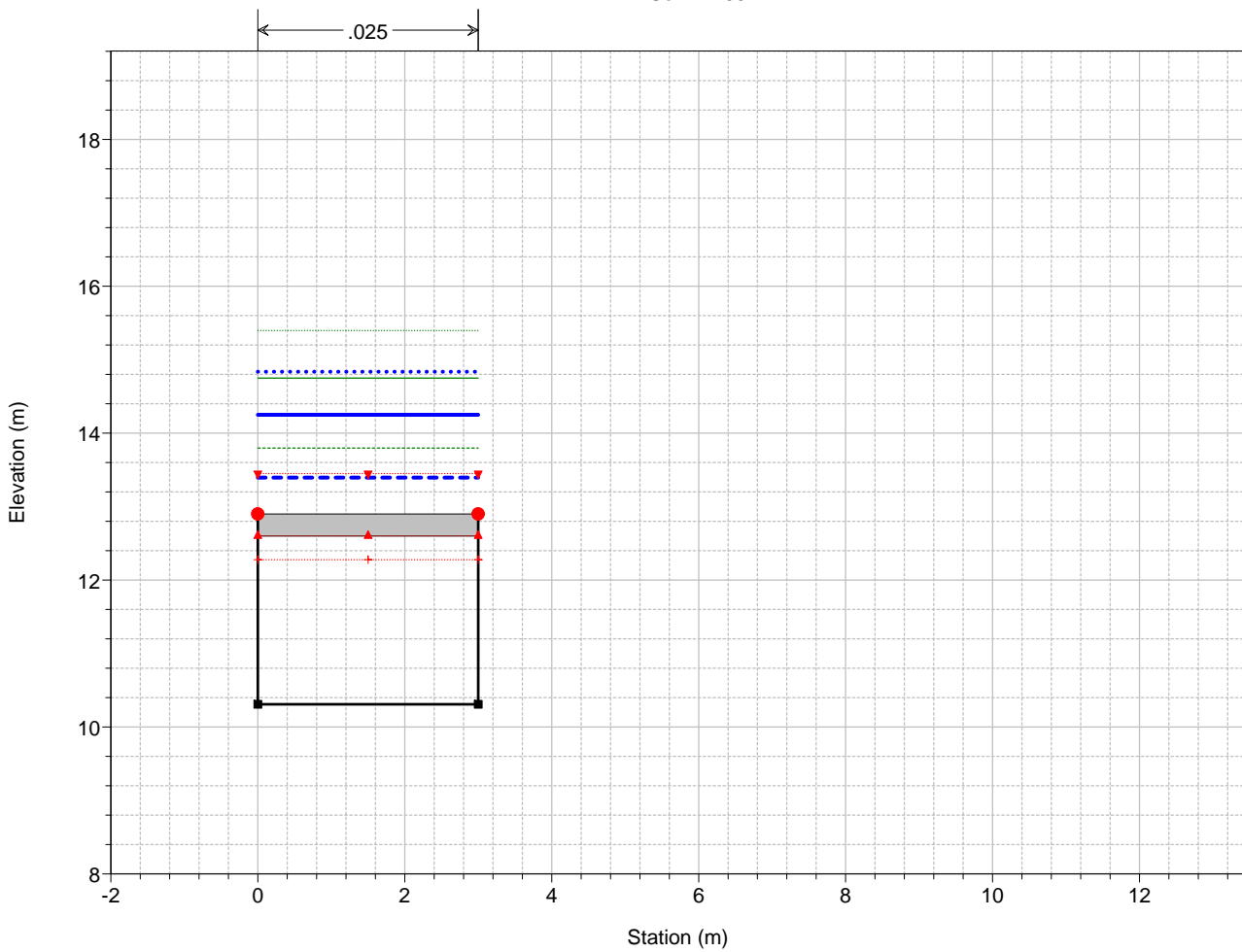
Legend	
EG T=500	(Dotted green line)
PL T=500	(Dotted blue line)
EG T=200	(Dotted blue line)
PL T=200	(Solid blue line)
EG T=50	(Dotted green line)
PL T=50	(Dashed blue line)
Crit T=500	(Dotted red line with inverted triangles)
Crit T=200	(Dotted red line with triangles)
Crit T=50	(Dotted red line with pluses)
Fondo	(Solid black line)
Sponda	(Red circle)

T. Battana



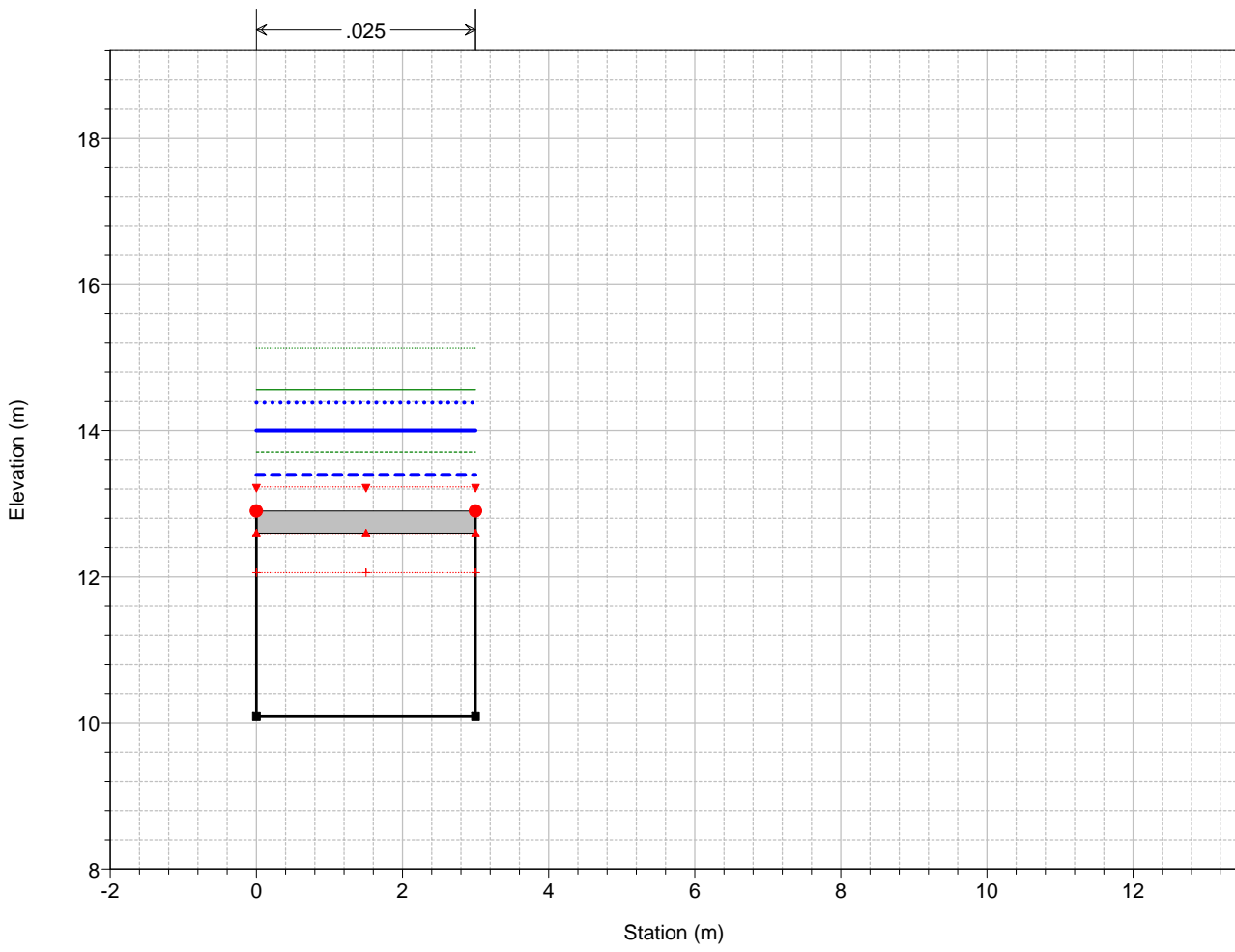
Legend	
EG T=500	(Green dotted line)
PL T=500	(Blue dotted line)
EG T=200	(Green solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black solid line with square markers)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

T. Battana
Sez. BA03



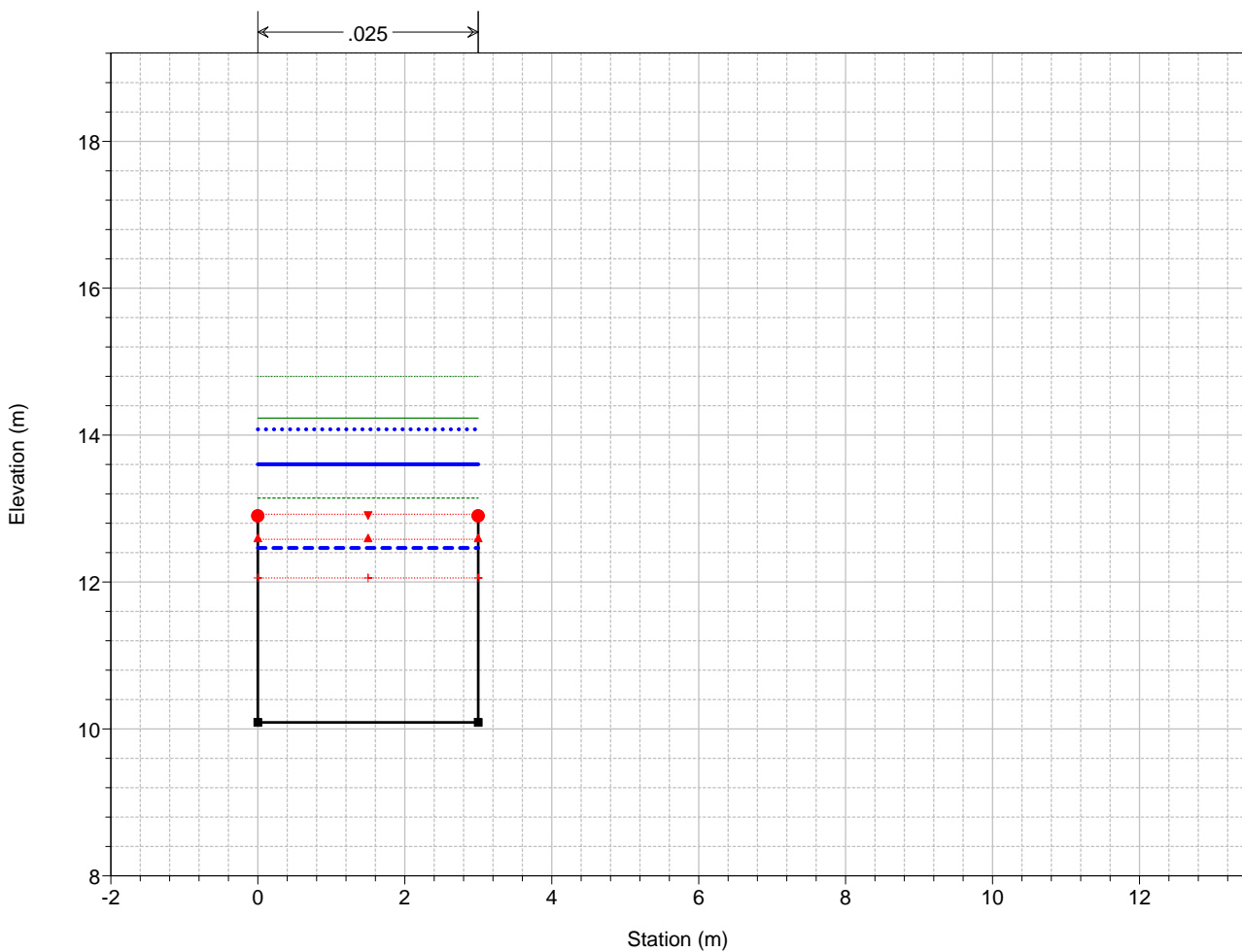
Legend	
EG T=500	(Green dotted line)
PL T=500	(Blue dotted line)
EG T=200	(Green solid line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black solid line with square markers)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

T. Battana
Sez. BA03



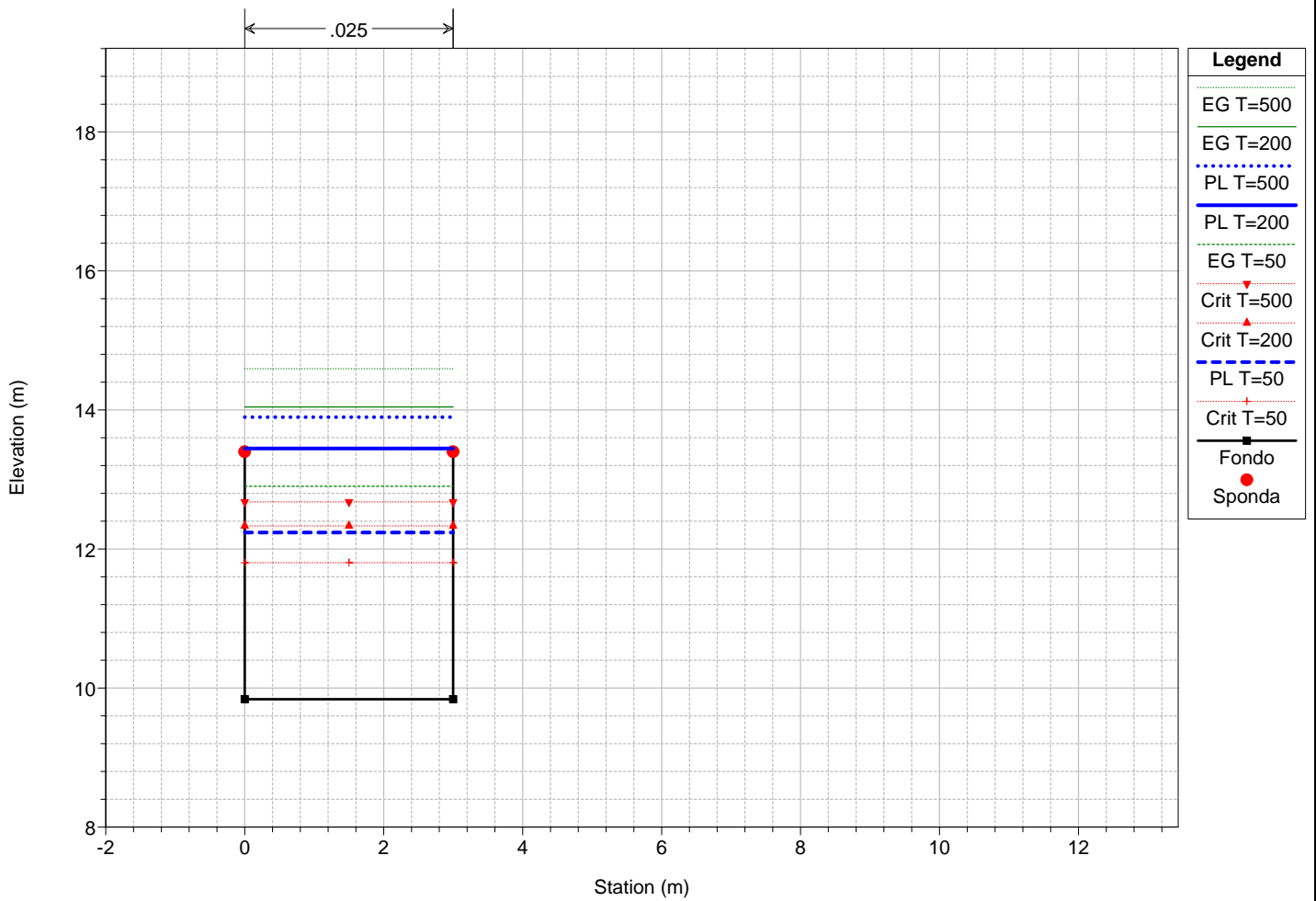
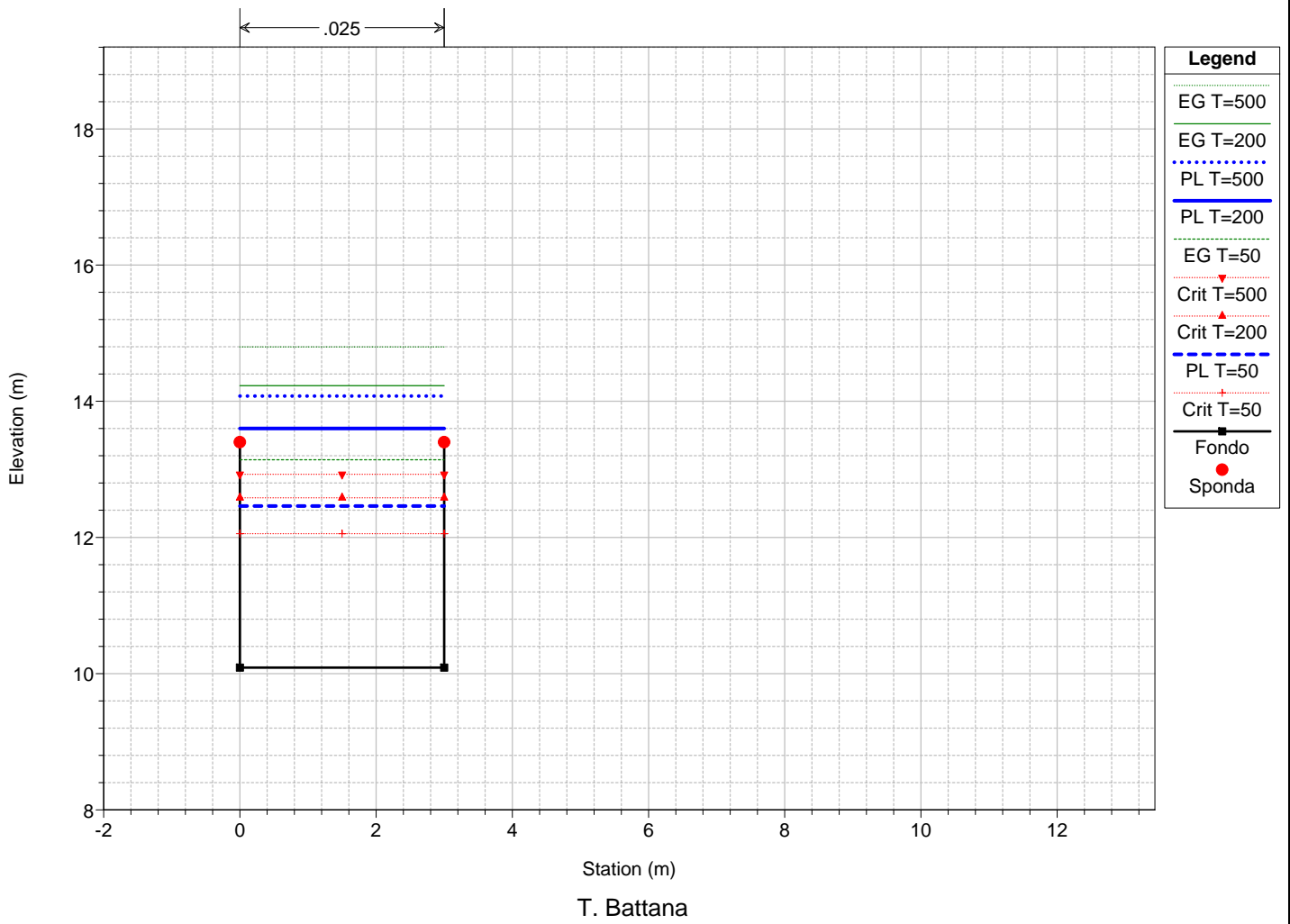
Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Dotted Blue Line)
PL T=500	(Dotted Blue Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Red Inverted Triangle)
Crit T=200	(Red Triangle)
Crit T=50	(Red Plus)
Fondo	(Black Square)
Sponda	(Red Circle)

T. Battana

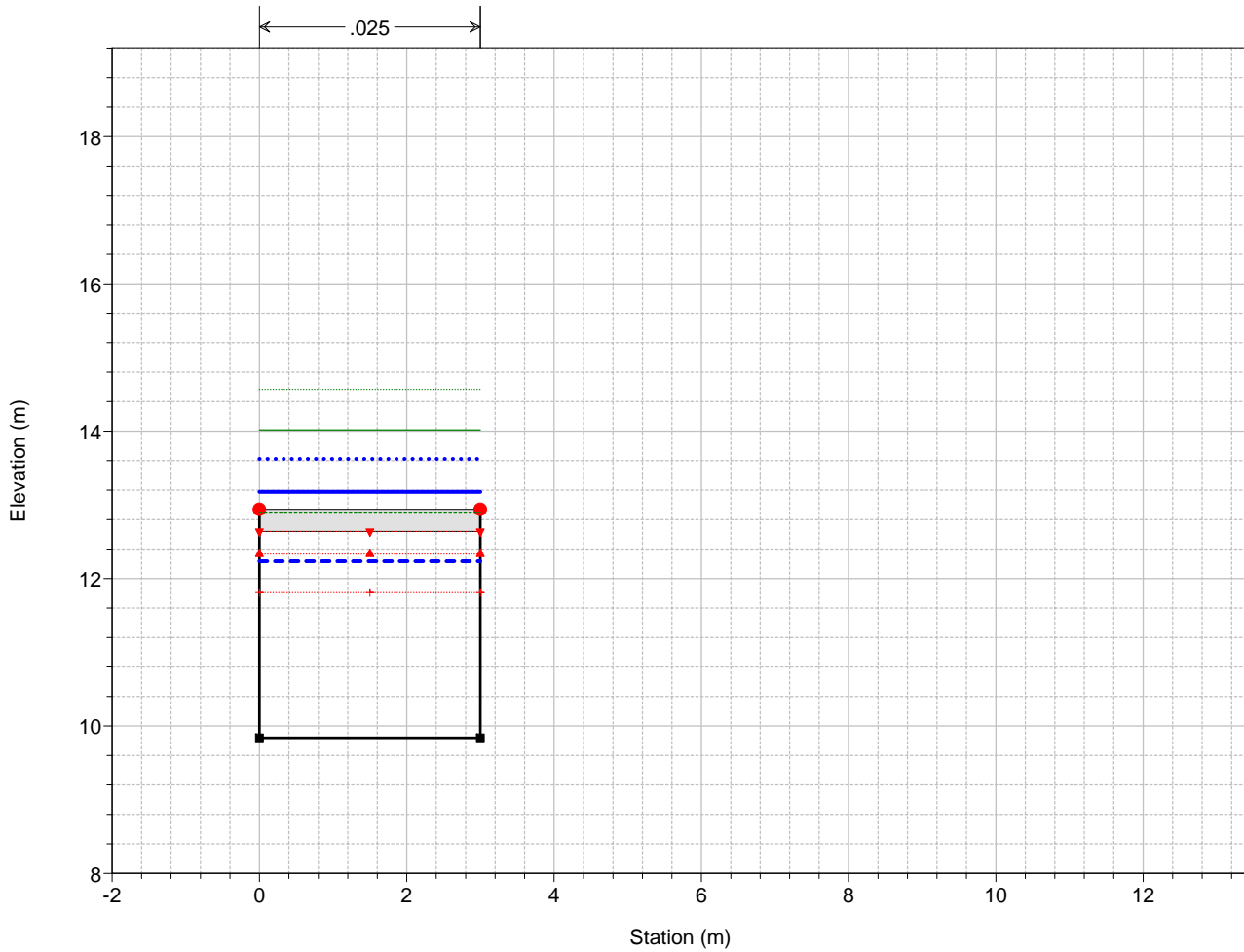


Legend	
EG T=500	(Dotted Green Line)
EG T=200	(Dotted Blue Line)
PL T=500	(Dotted Blue Line)
PL T=200	(Solid Blue Line)
EG T=50	(Dotted Green Line)
PL T=50	(Dashed Blue Line)
Crit T=500	(Red Inverted Triangle)
Crit T=200	(Red Triangle)
Crit T=50	(Red Plus)
Fondo	(Black Square)
Sponda	(Red Circle)

T. Battana

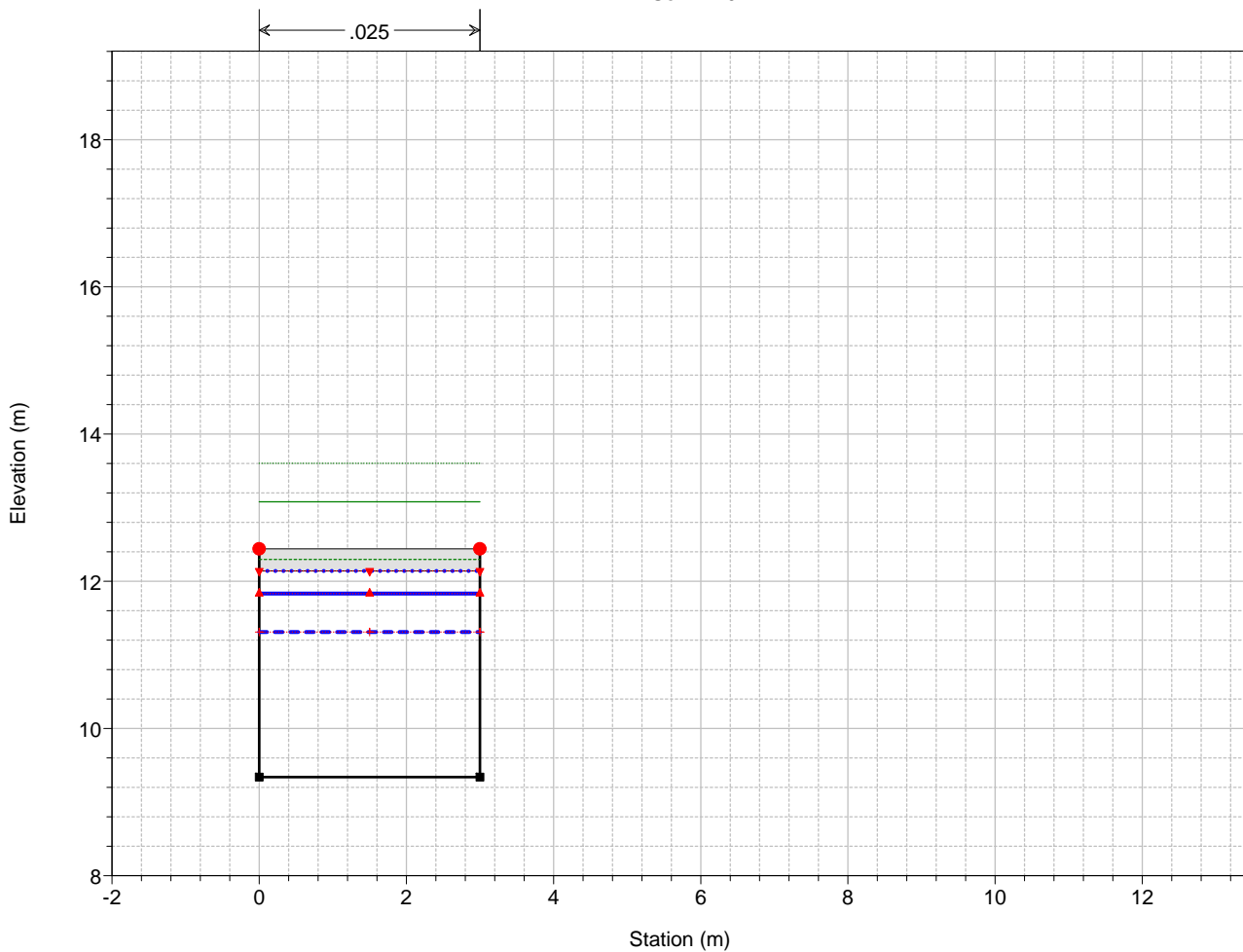


T. Battana
Sez. BA02



Legend	
EG T=500	— (solid green)
EG T=200	... (dotted green)
PL T=500	... (dotted blue)
PL T=200	— (solid blue)
EG T=50	... (dotted red)
Crit T=500	▼ (dotted red)
Crit T=200	▲ (solid red)
PL T=50	- - - (dashed blue)
Crit T=50	+ (dotted red)
Fondo	— (solid black)
Sponda	● (solid red)

T. Battana
Sez. BA01



Legend	
EG T=500	— (solid green)
EG T=200	... (dotted green)
EG T=50	... (dotted red)
PL T=500	... (dotted blue)
Crit T=500	▼ (dotted red)
Crit T=200	▲ (solid red)
PL T=200	— (solid blue)
PL T=50	- - - (dashed blue)
Crit T=50	+ (dotted red)
Fondo	— (solid black)
Sponda	● (solid red)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	LOB Elev	L. Freeboard	ROB Elev	R. Freeboard	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Via S. Vittoria	8.1	T=50	26.00	11.80	15.63	12.80	-2.83	12.80	-2.83	14.32	16.07	0.006000	2.95	8.82	2.50	0.48
Via S. Vittoria	8.1	T=200	37.00	11.80	16.60	12.80	-3.80	12.80	-3.80	14.91	17.15	0.005385	3.29	11.26	2.50	0.48
Via S. Vittoria	8.1	T=500	45.00	11.80	17.24	12.80	-4.44	12.80	-4.44	15.31	17.87	0.005120	3.50	12.85	2.50	0.48
Via S. Vittoria	7.2	T=50	26.00	11.52	15.47	12.82	-2.65	12.82	-2.65	13.75	15.82	0.004644	2.63	9.87	2.50	0.42
Via S. Vittoria	7.2	T=200	37.00	11.52	16.43	12.82	-3.61	12.82	-3.61	14.34	16.89	0.005703	3.01	12.28	2.50	0.43
Via S. Vittoria	7.2	T=500	45.00	11.52	17.06	12.82	-4.24	12.82	-4.24	14.73	17.60	0.006421	3.25	13.86	2.50	0.44
Via S. Vittoria	7.11		Bridge													
Via S. Vittoria	7.1	T=50	26.00	11.46	15.14	12.82	-2.32	12.82	-2.32	13.68	15.55	0.005472	2.83	9.20	2.50	0.47
Via S. Vittoria	7.1	T=200	37.00	11.46	16.14	12.82	-3.32	12.82	-3.32	14.28	16.65	0.006353	3.16	11.71	2.50	0.47
Via S. Vittoria	7.1	T=500	45.00	11.46	16.80	12.82	-3.98	12.82	-3.98	14.67	17.38	0.006993	3.37	13.34	2.50	0.47
Via S. Vittoria	6.2	T=50	26.00	11.10	14.90	12.50	-2.40	12.50	-2.40	13.33	15.28	0.005079	2.74	9.50	2.50	0.45
Via S. Vittoria	6.2	T=200	37.00	11.10	15.85	12.50	-3.35	12.50	-3.35	13.92	16.34	0.006164	3.12	11.87	2.50	0.46
Via S. Vittoria	6.2	T=500	45.00	11.10	16.46	12.50	-3.96	12.50	-3.96	14.31	17.03	0.006927	3.36	13.40	2.50	0.46
Via S. Vittoria	6.11		Bridge													
Via S. Vittoria	6.1	T=50	26.00	11.00	14.18	12.50	-1.68	12.50	-1.68	13.23	14.73	0.007711	3.27	7.96	2.50	0.58
Via S. Vittoria	6.1	T=200	37.00	11.00	15.10	12.50	-2.60	12.50	-2.60	13.81	15.76	0.008620	3.61	10.25	2.50	0.57
Via S. Vittoria	6.1	T=500	45.00	11.00	15.70	12.50	-3.20	12.50	-3.20	14.21	16.45	0.009321	3.83	11.75	2.50	0.56
Via S. Vittoria	6.0	T=50	26.00	11.00	14.18	13.40	-0.78	13.40	-0.78	13.22	14.73	0.007716	3.27	7.95	2.50	0.59
Via S. Vittoria	6.0	T=200	37.00	11.00	15.10	13.40	-1.70	13.40	-1.70	13.81	15.76	0.008626	3.61	10.25	2.50	0.57
Via S. Vittoria	6.0	T=500	45.00	11.00	15.70	13.40	-2.30	13.40	-2.30	14.20	16.45	0.009326	3.83	11.75	2.50	0.56
Via S. Vittoria	5.3	T=50	26.00	10.87	14.19	13.40	-0.79	13.40	-0.79	12.93	14.59	0.004986	2.80	9.30	2.80	0.49
Via S. Vittoria	5.3	T=200	37.00	10.87	15.12	13.40	-1.72	13.40	-1.72	13.47	15.61	0.005656	3.11	11.89	2.80	0.48
Via S. Vittoria	5.3	T=500	45.00	10.87	15.72	13.40	-2.32	13.40	-2.32	13.84	16.28	0.006151	3.32	13.57	2.80	0.48
Via S. Vittoria	5.2	T=50	26.00	10.87	14.19	12.40	-1.79	12.40	-1.79	12.93	14.59	0.004988	2.80	9.30	2.80	0.49
Via S. Vittoria	5.2	T=200	37.00	10.87	15.11	12.40	-2.71	12.40	-2.71	13.48	15.61	0.005658	3.11	11.88	2.80	0.48
Via S. Vittoria	5.2	T=500	45.00	10.87	15.72	12.40	-3.32	12.40	-3.32	13.84	16.28	0.006154	3.32	13.57	2.80	0.48
Via S. Vittoria	5.11		Bridge													
Via S. Vittoria	5.1	T=50	26.00	10.82	13.63	12.40	-1.23	12.40	-1.23	12.88	14.19	0.007465	3.30	7.87	2.80	0.63
Via S. Vittoria	5.1	T=200	37.00	10.82	14.52	12.40	-2.12	12.40	-2.12	13.42	15.17	0.007834	3.58	10.35	2.80	0.59
Via S. Vittoria	5.1	T=500	45.00	10.82	15.12	12.40	-2.72	12.40	-2.72	13.79	15.83	0.008120	3.74	12.04	2.80	0.58
Via S. Vittoria	5.0	T=50	26.00	10.82	13.63	13.40	-0.23	13.40	-0.23	12.88	14.19	0.007472	3.30	7.87	2.80	0.63
Via S. Vittoria	5.0	T=200	37.00	10.82	14.51	13.40	-1.11	13.40	-1.11	13.42	15.17	0.007839	3.58	10.34	2.80	0.59
Via S. Vittoria	5.0	T=500	45.00	10.82	15.12	13.40	-1.72	13.40	-1.72	13.79	15.83	0.008125	3.74	12.04	2.80	0.58
Via S. Vittoria	4	T=50	26.00	10.80	13.58	13.40	-0.18	13.40	-0.18	12.86	14.15	0.007683	3.34	7.78	2.80	0.64
Via S. Vittoria	4	T=200	37.00	10.80	14.46	13.40	-1.06	13.40	-1.06	13.40	15.13	0.008003	3.61	10.25	2.80	0.60
Via S. Vittoria	4	T=500	45.00	10.80	15.07	13.40	-1.67	13.40	-1.67	13.77	15.79	0.008273	3.77	11.94	2.80	0.58

HEC-RAS Plan: Pb River: T. Battana Reach: Via S. Vittoria (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
Via S. Vittoria	3.3	T=50	26.00	10.31	13.40	13.40	0.00	13.40	0.00	12.28	13.80	0.004865	2.81	9.26	3.00	0.51
Via S. Vittoria	3.3	T=200	37.00	10.31	14.25	13.40	-0.85	13.40	-0.85	12.80	14.75	0.005475	3.13	11.83	3.00	0.50
Via S. Vittoria	3.3	T=500	45.00	10.31	14.84	13.40	-1.44	13.40	-1.44	13.14	15.40	0.005847	3.31	13.59	3.00	0.50
Via S. Vittoria	3.2	T=50	26.00	10.31	13.40	12.90	-0.50	12.90	-0.50	12.27	13.80	0.004868	2.81	9.26	3.00	0.51
Via S. Vittoria	3.2	T=200	37.00	10.31	14.25	12.90	-1.35	12.90	-1.35	12.80	14.75	0.005478	3.13	11.83	3.00	0.50
Via S. Vittoria	3.2	T=500	45.00	10.31	14.84	12.90	-1.94	12.90	-1.94	13.15	15.40	0.005850	3.31	13.58	3.00	0.50
Via S. Vittoria	3.11		Bridge													
Via S. Vittoria	3.1	T=50	26.00	10.09	12.46	12.90	0.44	12.90	0.44	12.05	13.14	0.009320	3.65	7.12	3.00	0.76
Via S. Vittoria	3.1	T=200	37.00	10.09	13.60	12.90	-0.70	12.90	-0.70	12.58	14.23	0.007210	3.51	10.54	3.00	0.60
Via S. Vittoria	3.1	T=500	45.00	10.09	14.08	12.90	-1.18	12.90	-1.18	12.92	14.80	0.007880	3.76	11.97	3.00	0.60
Via S. Vittoria	3.0	T=50	26.00	10.09	12.46	13.40	0.94	13.40	0.94	12.05	13.14	0.009334	3.65	7.12	3.00	0.76
Via S. Vittoria	3.0	T=200	37.00	10.09	13.60	13.40	-0.20	13.40	-0.20	12.58	14.23	0.007215	3.51	10.53	3.00	0.60
Via S. Vittoria	3.0	T=500	45.00	10.09	14.08	13.40	-0.68	13.40	-0.68	12.93	14.80	0.007885	3.76	11.96	3.00	0.60
Via S. Vittoria	2.1	T=50	26.00	9.84	12.24	13.40	1.16	13.40	1.16	11.80	12.90	0.009088	3.61	7.19	3.00	0.75
Via S. Vittoria	2.1	T=200	37.00	9.84	13.45	13.40	-0.05	13.40	-0.05	12.33	14.04	0.006766	3.42	10.82	3.00	0.57
Via S. Vittoria	2.1	T=500	45.00	9.84	13.90	13.40	-0.50	13.40	-0.50	12.68	14.59	0.007564	3.70	12.17	3.00	0.59
Via S. Vittoria	2.0	T=50	26.00	9.84	12.24	12.64	0.40	12.64	0.40	11.81	12.90	0.009103	3.62	7.19	3.00	0.75
Via S. Vittoria	2.0	T=200	37.00	9.84	13.18	12.64	-0.54	12.64	-0.54	12.33	14.02	0.019331	4.06	9.11	3.00	0.71
Via S. Vittoria	2.0	T=500	45.00	9.84	13.62	12.64	-0.98	12.64	-0.98	12.64	14.57	0.018089	4.31	10.45	3.00	0.71
Via S. Vittoria	1	T=50	26.00	9.34	11.31	12.14	0.83	12.14	0.83	11.31	12.30	0.014991	4.40	5.91	3.00	1.00
Via S. Vittoria	1	T=200	37.00	9.34	11.83	12.14	0.31	12.14	0.31	11.83	13.08	0.016679	4.95	7.48	3.00	1.00
Via S. Vittoria	1	T=500	45.00	9.34	12.14	12.14	0.00	12.14	0.00	12.14	13.60	0.018491	5.36	8.40	3.00	1.02

Plan: Pb T. Battana Via S. Vittoria RS: 7.11 Profile: T=50

E.G. US. (m)	15.82	Element	Inside BR US	Inside BR DS
W.S. US. (m)	15.47	E.G. Elev (m)	15.82	15.55
Q Total (m3/s)	26.00	W.S. Elev (m)	15.47	15.14
Q Bridge (m3/s)	7.32	Crit W.S. (m)	14.04	13.99
Q Weir (m3/s)	18.68	Max Chl Dpth (m)	3.95	3.68
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.50	Flow Area (m2)		
Weir Submerg	0.77	Froude # Chl	0.46	0.51
Weir Max Depth (m)	3.00	Specif Force (m3)	24.95	23.23
Min El Weir Flow (m)	12.82	Hydr Depth (m)		
Min El Prs (m)	12.52	W.P. Total (m)	9.50	9.62
Delta EG (m)	0.28	Conv. Total (m3/s)		
Delta WS (m)	0.33	Top Width (m)	2.50	2.50
BR Open Area (m2)	2.50	Frctn Loss (m)		
BR Open Vel (m/s)	2.93	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: Pb T. Battana Via S. Vittoria RS: 7.11 Profile: T=200

E.G. US. (m)	16.89	Element	Inside BR US	Inside BR DS
W.S. US. (m)	16.43	E.G. Elev (m)	16.89	16.65
Q Total (m3/s)	37.00	W.S. Elev (m)	16.43	16.14
Q Bridge (m3/s)	7.69	Crit W.S. (m)	14.64	14.58
Q Weir (m3/s)	29.31	Max Chl Dpth (m)	4.91	4.68
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.50	Flow Area (m2)		
Weir Submerg	0.82	Froude # Chl	0.46	0.50
Weir Max Depth (m)	4.07	Specif Force (m3)	39.43	37.54
Min El Weir Flow (m)	12.82	Hydr Depth (m)		
Min El Prs (m)	12.52	W.P. Total (m)	9.50	9.62
Delta EG (m)	0.24	Conv. Total (m3/s)		
Delta WS (m)	0.29	Top Width (m)	2.50	2.50
BR Open Area (m2)	2.50	Frctn Loss (m)		
BR Open Vel (m/s)	3.07	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: Pb T. Battana Via S. Vittoria RS: 7.11 Profile: T=500

E.G. US. (m)	17.60	Element	Inside BR US	Inside BR DS
W.S. US. (m)	17.06	E.G. Elev (m)	17.60	17.38
Q Total (m3/s)	45.00	W.S. Elev (m)	17.06	16.80
Q Bridge (m3/s)	7.94	Crit W.S. (m)	15.03	14.97
Q Weir (m3/s)	37.06	Max Chl Dpth (m)	5.54	5.34
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.50	Flow Area (m2)		
Weir Submerg	0.84	Froude # Chl	0.47	0.49
Weir Max Depth (m)	4.78	Specif Force (m3)	50.85	48.89
Min El Weir Flow (m)	12.82	Hydr Depth (m)		
Min El Prs (m)	12.52	W.P. Total (m)	9.50	9.62
Delta EG (m)	0.22	Conv. Total (m3/s)		
Delta WS (m)	0.27	Top Width (m)	2.50	2.50
BR Open Area (m2)	2.50	Frctn Loss (m)		
BR Open Vel (m/s)	3.18	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: Pb T. Battana Via S. Vittoria RS: 6.11 Profile: T=50

E.G. US. (m)	15.28	Element	Inside BR US	Inside BR DS
W.S. US. (m)	14.90	E.G. Elev (m)	15.28	14.99
Q Total (m3/s)	26.00	W.S. Elev (m)	14.90	14.18
Q Bridge (m3/s)	9.29	Crit W.S. (m)	13.72	13.62
Q Weir (m3/s)	16.71	Max Chl Dpth (m)	3.80	3.18
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.50	Flow Area (m2)		
Weir Submerg	0.60	Froude # Chl	0.50	0.67
Weir Max Depth (m)	2.78	Specif Force (m3)	23.56	20.68
Min El Weir Flow (m)	12.50	Hydr Depth (m)		
Min El Prs (m)	12.10	W.P. Total (m)	9.50	9.70
Delta EG (m)	0.56	Conv. Total (m3/s)		
Delta WS (m)	0.72	Top Width (m)	2.50	2.50
BR Open Area (m2)	2.50	Frctn Loss (m)		
BR Open Vel (m/s)	3.72	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: Pb T. Battana Via S. Vittoria RS: 6.11 Profile: T=200

E.G. US. (m)	16.34	Element	Inside BR US	Inside BR DS
W.S. US. (m)	15.85	E.G. Elev (m)	16.34	15.93
Q Total (m3/s)	37.00	W.S. Elev (m)	15.85	15.10
Q Bridge (m3/s)	9.87	Crit W.S. (m)	14.32	14.21
Q Weir (m3/s)	27.13	Max Chl Dpth (m)	4.75	4.10
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.50	Flow Area (m2)		
Weir Submerg	0.68	Froude # Chl	0.50	0.63
Weir Max Depth (m)	3.84	Specif Force (m3)	37.45	33.30
Min El Weir Flow (m)	12.50	Hydr Depth (m)		
Min El Prs (m)	12.10	W.P. Total (m)	9.50	9.70
Delta EG (m)	0.58	Conv. Total (m3/s)		
Delta WS (m)	0.75	Top Width (m)	2.50	2.50
BR Open Area (m2)	2.50	Frctn Loss (m)		
BR Open Vel (m/s)	3.95	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: Pb T. Battana Via S. Vittoria RS: 6.11 Profile: T=500

E.G. US. (m)	17.03	Element	Inside BR US	Inside BR DS
W.S. US. (m)	16.46	E.G. Elev (m)	17.03	16.55
Q Total (m3/s)	45.00	W.S. Elev (m)	16.46	15.70
Q Bridge (m3/s)	10.22	Crit W.S. (m)	14.71	14.61
Q Weir (m3/s)	34.78	Max Chl Dpth (m)	5.36	4.70
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.50	Flow Area (m2)		
Weir Submerg	0.71	Froude # Chl	0.50	0.62
Weir Max Depth (m)	4.53	Specif Force (m3)	48.38	43.41
Min El Weir Flow (m)	12.50	Hydr Depth (m)		
Min El Prs (m)	12.10	W.P. Total (m)	9.50	9.70
Delta EG (m)	0.59	Conv. Total (m3/s)		
Delta WS (m)	0.76	Top Width (m)	2.50	2.50
BR Open Area (m2)	2.50	Frctn Loss (m)		
BR Open Vel (m/s)	4.09	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: Pb T. Battana Via S. Vittoria RS: 5.11 Profile: T=50

E.G. US. (m)	14.59	Element	Inside BR US	Inside BR DS
W.S. US. (m)	14.19	E.G. Elev (m)	14.59	14.36
Q Total (m3/s)	26.00	W.S. Elev (m)	14.19	13.70
Q Bridge (m3/s)	12.93	Crit W.S. (m)	13.13	13.08
Q Weir (m3/s)	13.07	Max Chl Dpth (m)	3.32	2.88
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.80	Flow Area (m2)		
Weir Submerg	0.56	Froude # Chl	0.52	0.65
Weir Max Depth (m)	2.19	Specif Force (m3)	22.26	20.03
Min El Weir Flow (m)	12.40	Hydr Depth (m)		
Min El Prs (m)	12.20	W.P. Total (m)	11.06	11.16
Delta EG (m)	0.40	Conv. Total (m3/s)		
Delta WS (m)	0.56	Top Width (m)	2.80	2.80
BR Open Area (m2)	3.72	Frctn Loss (m)		
BR Open Vel (m/s)	3.47	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: Pb T. Battana Via S. Vittoria RS: 5.11 Profile: T=200

E.G. US. (m)	15.61	Element	Inside BR US	Inside BR DS
W.S. US. (m)	15.11	E.G. Elev (m)	15.61	15.27
Q Total (m3/s)	37.00	W.S. Elev (m)	15.11	14.52
Q Bridge (m3/s)	13.80	Crit W.S. (m)	13.68	13.63
Q Weir (m3/s)	23.20	Max Chl Dpth (m)	4.24	3.70
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.80	Flow Area (m2)		
Weir Submerg	0.66	Froude # Chl	0.51	0.63
Weir Max Depth (m)	3.21	Specif Force (m3)	35.96	32.13
Min El Weir Flow (m)	12.40	Hydr Depth (m)		
Min El Prs (m)	12.20	W.P. Total (m)	11.06	11.16
Delta EG (m)	0.44	Conv. Total (m3/s)		
Delta WS (m)	0.60	Top Width (m)	2.80	2.80
BR Open Area (m2)	3.72	Frctn Loss (m)		
BR Open Vel (m/s)	3.71	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: Pb T. Battana Via S. Vittoria RS: 5.11 Profile: T=500

E.G. US. (m)	16.28	Element	Inside BR US	Inside BR DS
W.S. US. (m)	15.72	E.G. Elev (m)	16.28	15.87
Q Total (m3/s)	45.00	W.S. Elev (m)	15.72	15.12
Q Bridge (m3/s)	14.20	Crit W.S. (m)	14.05	13.99
Q Weir (m3/s)	30.80	Max Chl Dpth (m)	4.85	4.30
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	2.80	Flow Area (m2)		
Weir Submerg	0.70	Froude # Chl	0.50	0.60
Weir Max Depth (m)	3.88	Specif Force (m3)	46.84	42.28
Min El Weir Flow (m)	12.40	Hydr Depth (m)		
Min El Prs (m)	12.20	W.P. Total (m)	11.06	11.16
Delta EG (m)	0.45	Conv. Total (m3/s)		
Delta WS (m)	0.60	Top Width (m)	2.80	2.80
BR Open Area (m2)	3.72	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: Pb T. Battana Via S. Vittoria RS: 3.11 Profile: T=50

E.G. US. (m)	13.80	Element	Inside BR US	Inside BR DS
W.S. US. (m)	13.40	E.G. Elev (m)	13.80	13.70
Q Total (m3/s)	26.00	W.S. Elev (m)	13.40	13.40
Q Bridge (m3/s)	22.31	Crit W.S. (m)	12.28	12.06
Q Weir (m3/s)	3.69	Max Chl Dpth (m)	3.09	3.31
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	3.00	Flow Area (m2)		
Weir Submerg	0.00	Froude # Chl	0.57	0.51
Weir Max Depth (m)	0.90	Specif Force (m3)	21.94	23.45
Min El Weir Flow (m)	12.90	Hydr Depth (m)		
Min El Prs (m)	12.60	W.P. Total (m)	13.58	14.02
Delta EG (m)	0.65	Conv. Total (m3/s)		
Delta WS (m)	0.93	Top Width (m)	3.00	3.00
BR Open Area (m2)	6.87	Frctn Loss (m)		
BR Open Vel (m/s)	3.25	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: Pb T. Battana Via S. Vittoria RS: 3.11 Profile: T=200

E.G. US. (m)	14.75	Element	Inside BR US	Inside BR DS
W.S. US. (m)	14.25	E.G. Elev (m)	14.75	14.55
Q Total (m3/s)	37.00	W.S. Elev (m)	14.25	14.00
Q Bridge (m3/s)	26.10	Crit W.S. (m)	12.60	12.58
Q Weir (m3/s)	10.90	Max Chl Dpth (m)	3.94	3.91
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	3.00	Flow Area (m2)		
Weir Submerg	0.38	Froude # Chl	0.54	0.55
Weir Max Depth (m)	1.85	Specif Force (m3)	34.72	34.70
Min El Weir Flow (m)	12.90	Hydr Depth (m)		
Min El Prs (m)	12.60	W.P. Total (m)	13.58	14.02
Delta EG (m)	0.52	Conv. Total (m3/s)		
Delta WS (m)	0.65	Top Width (m)	3.00	3.00
BR Open Area (m2)	6.87	Frctn Loss (m)		
BR Open Vel (m/s)	3.80	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: Pb T. Battana Via S. Vittoria RS: 3.11 Profile: T=500

E.G. US. (m)	15.40	Element	Inside BR US	Inside BR DS
W.S. US. (m)	14.84	E.G. Elev (m)	15.40	15.13
Q Total (m3/s)	45.00	W.S. Elev (m)	14.84	14.39
Q Bridge (m3/s)	27.97	Crit W.S. (m)	13.45	13.23
Q Weir (m3/s)	17.03	Max Chl Dpth (m)	4.53	4.30
Weir Sta Lft (m)	0.00	Vel Total (m/s)	0.00	0.00
Weir Sta Rgt (m)	3.00	Flow Area (m2)		
Weir Submerg	0.47	Froude # Chl	0.53	0.58
Weir Max Depth (m)	2.50	Specif Force (m3)	45.14	43.43
Min El Weir Flow (m)	12.90	Hydr Depth (m)		
Min El Prs (m)	12.60	W.P. Total (m)	13.58	14.02
Delta EG (m)	0.60	Conv. Total (m3/s)		
Delta WS (m)	0.76	Top Width (m)	3.00	3.00
BR Open Area (m2)	6.87	Frctn Loss (m)		
BR Open Vel (m/s)	4.07	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. Gromolo
Sottobacino:	Rio Battana
Corso d'acqua:	Rio Battana
Località:	Via per S. Vittoria
Codice opera:	GRBA06TB02
Descrizione:	Imbocco tombinatura
Sezione di riferimento:	BA09

Calcolo delle condizioni critiche

Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	2,50	2,50	2,50
Numero pile	np=	0	0	0
Spessore pile [m]	sp=	0,00	0,00	0,00
Larghezza netta [m]	Bo=	2,50	2,50	2,50
Portata [mc/s]	Q=	26	37	45
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=	2,23	2,82	3,21
Area [mq]	A=	5,56	7,04	8,02
Perimetro bagnato [m]	P=	6,95	8,13	8,92
Raggio idraulico [m]	R=	0,80	0,87	0,90
Velocità media [m/s]	V=	4,67	5,26	5,61
Carico specifico [m]	E=	3,34	4,22	4,81
Numero di Froude	Fr=	1,00	1,00	1,00
Luce libera media [m]	H=	1,10	1,10	1,10
Franco [m]	f=	-1,13	-1,72	-2,11
Verificata		NO	NO	NO

SCHEDA VERIFICA IDRAULICA DI TIPO PUNTUALE

Bacino:	T. Gromolo
Sottobacino:	Rio Battana
Corso d'acqua:	Rio Battana
Località:	Via per S. Vittoria
Codice opera:	GRBA07PT05
Descrizione:	Ponte in c.a.
Sezione di riferimento:	BA10

Calcolo delle condizioni critiche

Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	2,40	2,40	2,40
Numero pile	np=	0	0	0
Spessore pile [m]	sp=	0,00	0,00	0,00
Larghezza netta [m]	Bo=	2,40	2,40	2,40
Portata [mc/s]	Q=	26	37	45
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=	2,29	2,89	3,30
Area [mq]	A=	5,49	6,94	7,91
Perimetro bagnato [m]	P=	6,97	8,19	8,99
Raggio idraulico [m]	R=	0,79	0,85	0,88
Velocità media [m/s]	V=	4,74	5,33	5,69
Carico specifico [m]	E=	3,43	4,34	4,95
Numero di Froude	Fr=	1,00	1,00	1,00
Luce libera media [m]	H=	1,10	1,10	1,10
Franco [m]	f=	-1,19	-1,79	-2,20
Verificata		NO	NO	NO

SCHEDA VERIFICA IDRAULICA DI TIPO PUNTUALE

Bacino:	T. Gromolo
Sottobacino:	Rio Battana
Corso d'acqua:	Rio Battana
Località:	Casa del Lavoratore
Codice opera:	GRBA09PT06
Descrizione:	Passerella metallica
Sezione di riferimento:	BA11

Calcolo delle condizioni critiche

Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	3,45	3,45	3,45
Numero pile	np=	0	0	0
Spessore pile [m]	sp=	0,00	0,00	0,00
Larghezza netta [m]	Bo=	3,45	3,45	3,45
Portata [mc/s]	Q=	26	37	45
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=	1,80	2,27	2,59
Area [mq]	A=	6,19	7,84	8,93
Perimetro bagnato [m]	P=	7,04	7,99	8,63
Raggio idraulico [m]	R=	0,88	0,98	1,04
Velocità media [m/s]	V=	4,20	4,72	5,04
Carico specifico [m]	E=	2,69	3,41	3,88
Numero di Froude	Fr=	1,00	1,00	1,00
Luce libera media [m]	H=	1,00	1,00	1,00
Franco [m]	f=	-0,80	-1,27	-1,59
Verificata		NO	NO	NO

SCHEDA VERIFICA IDRAULICA DI TIPO PUNTUALE

Bacino:	T. Gromolo
Sottobacino:	Rio Battana
Corso d'acqua:	Rio Battana
Località:	Casa del Lavoratore
Codice opera:	GRBA10PT07
Descrizione:	Ponte in c.a.
Sezione di riferimento:	BA12

Calcolo delle condizioni critiche

Periodo di ritorno [anni]	T =	50	200	500
Larghezza di calcolo [m]	B=	4,05	4,05	4,05
Numero pile	np=	0	0	0
Spessore pile [m]	sp=	0,00	0,00	0,00
Larghezza netta [m]	Bo=	4,05	4,05	4,05
Portata [mc/s]	Q=	26	37	45
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=	1,61	2,04	2,33
Area [mq]	A=	6,53	8,27	9,42
Perimetro bagnato [m]	P=	7,28	8,13	8,70
Raggio idraulico [m]	R=	0,90	1,02	1,08
Velocità media [m/s]	V=	3,98	4,48	4,78
Carico specifico [m]	E=	2,42	3,06	3,49
Numero di Froude	Fr=	1,00	1,00	1,00
Luce libera media [m]	H=	1,80	1,80	1,80
Franco [m]	f=	0,19	-0,24	-0,53
Verificata		NO	NO	NO