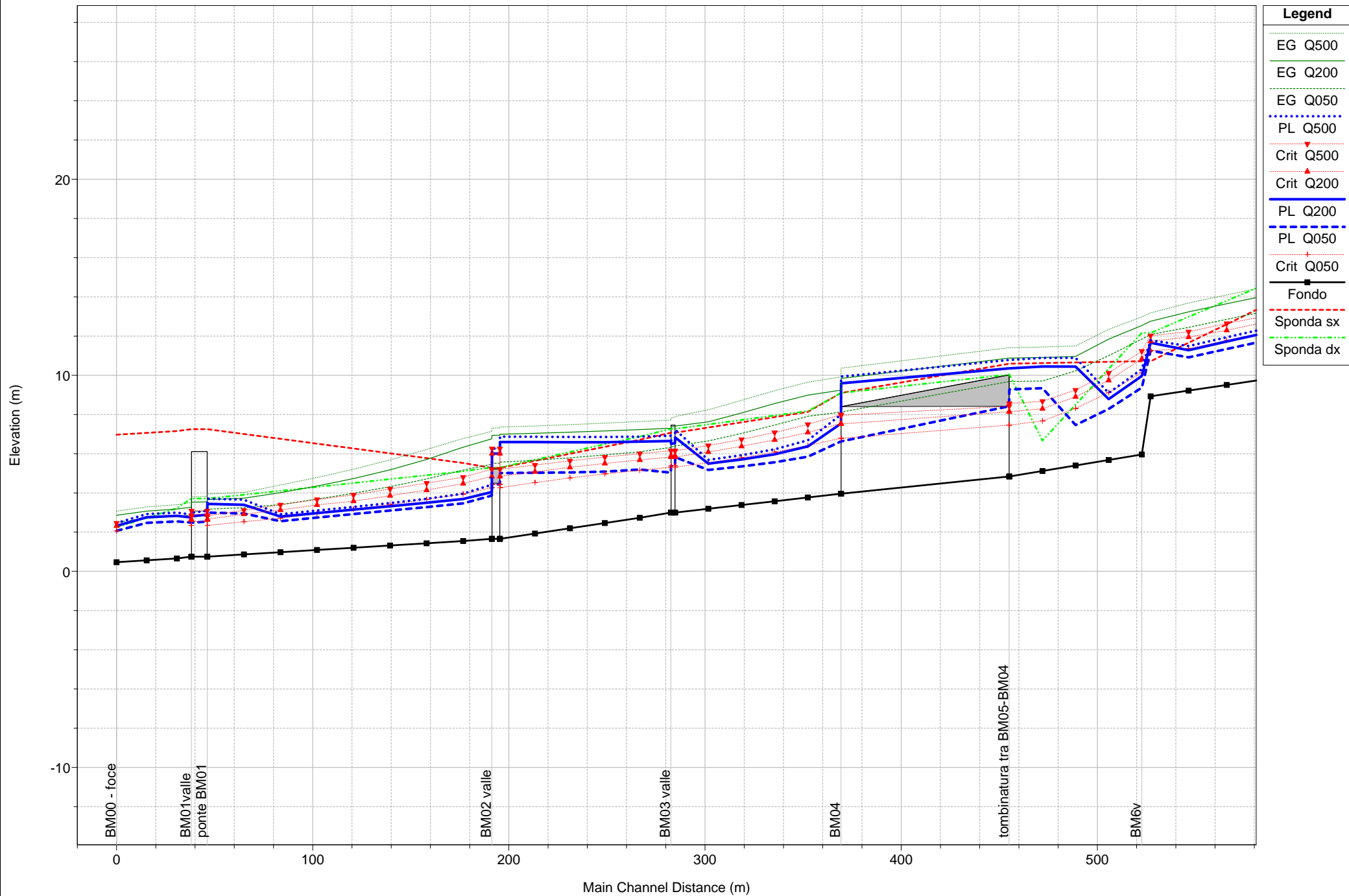
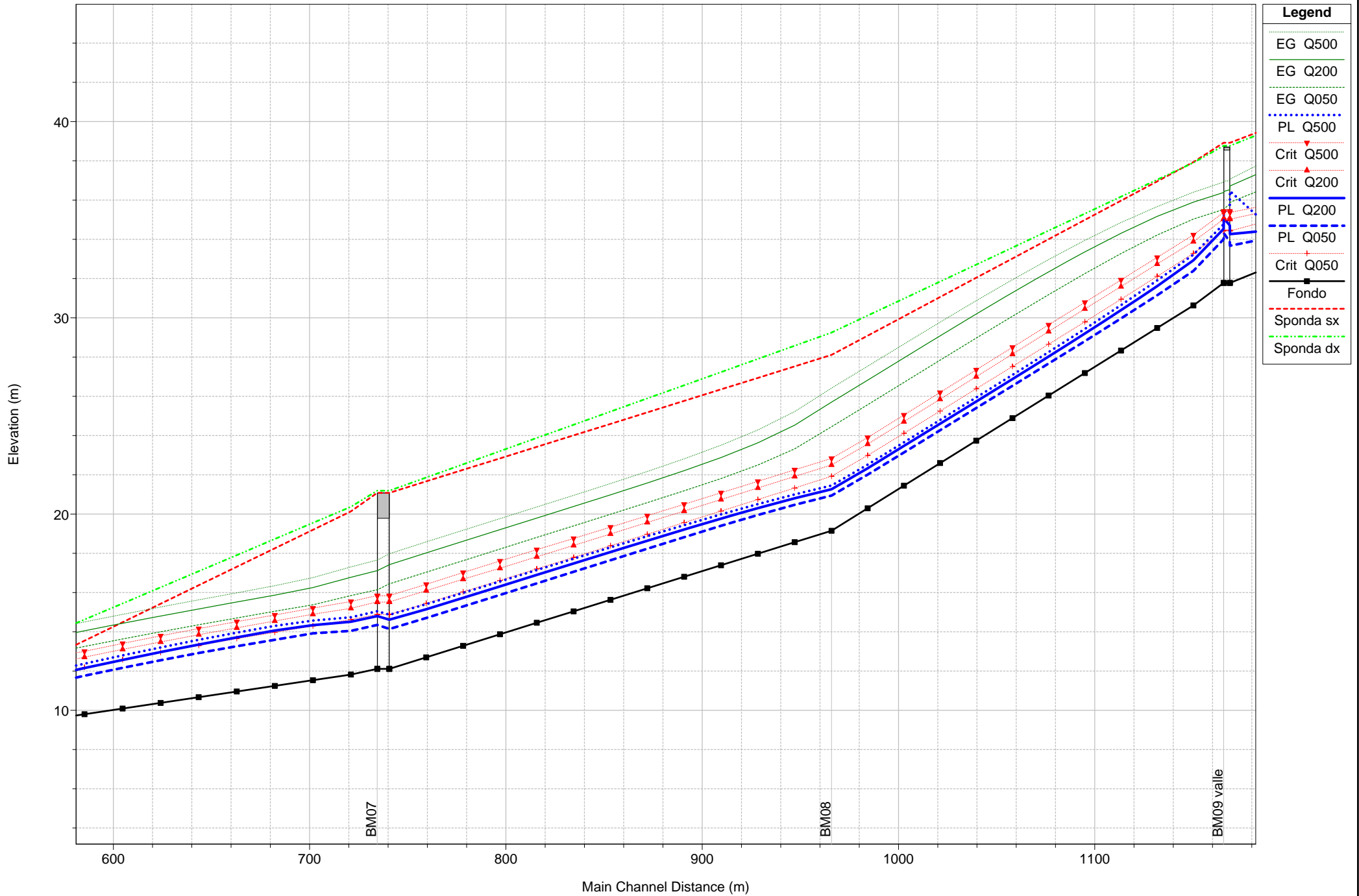


Bisagno - Fasce DL180



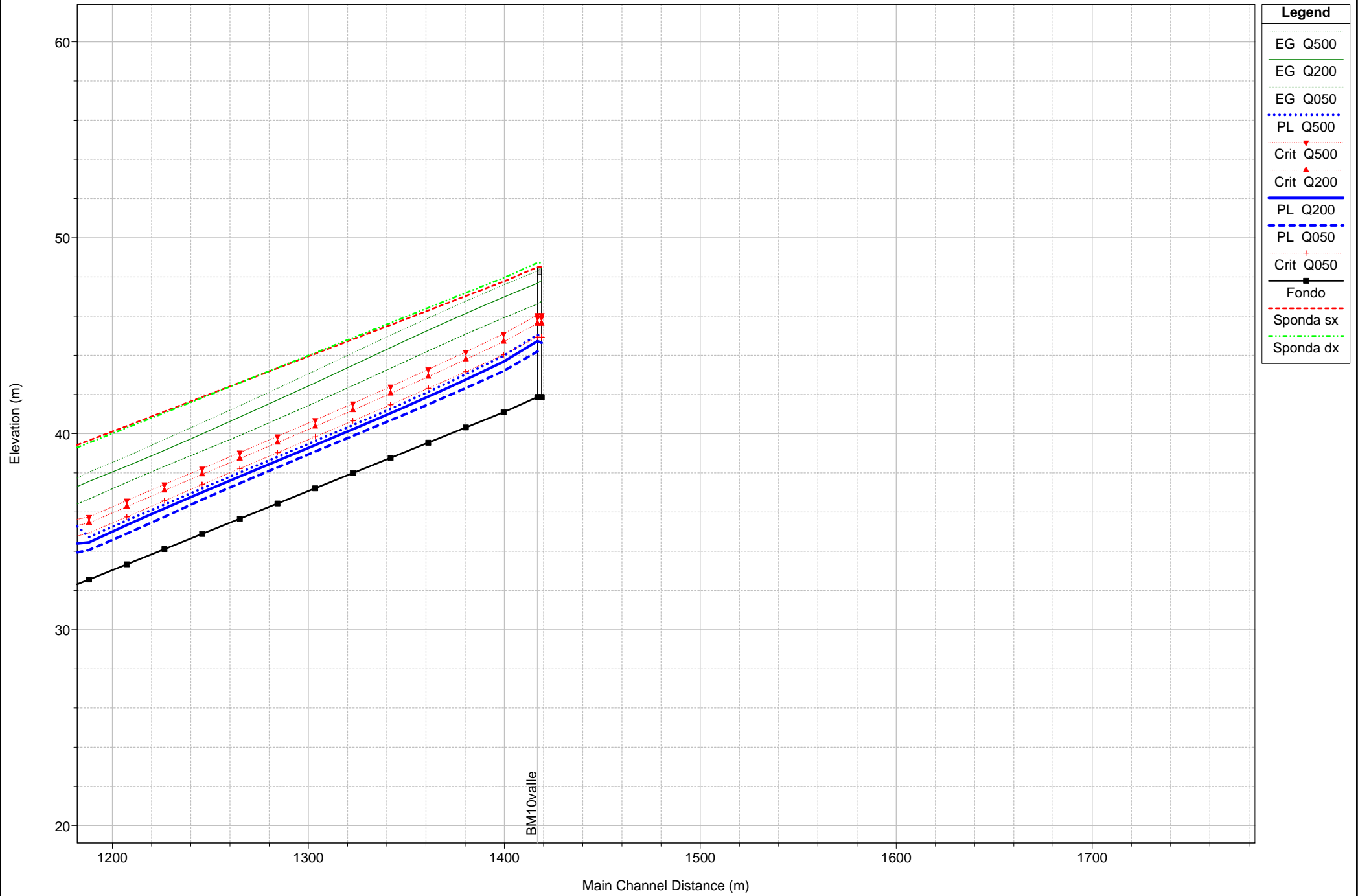
1 cm Horiz. = 25 m 1 cm Vert. = 2.5 m

Bisagno - Fasce DL180



1 cm Horiz. = 25 m 1 cm Vert. = 2.5 m

Bisagno - Fasce DL180

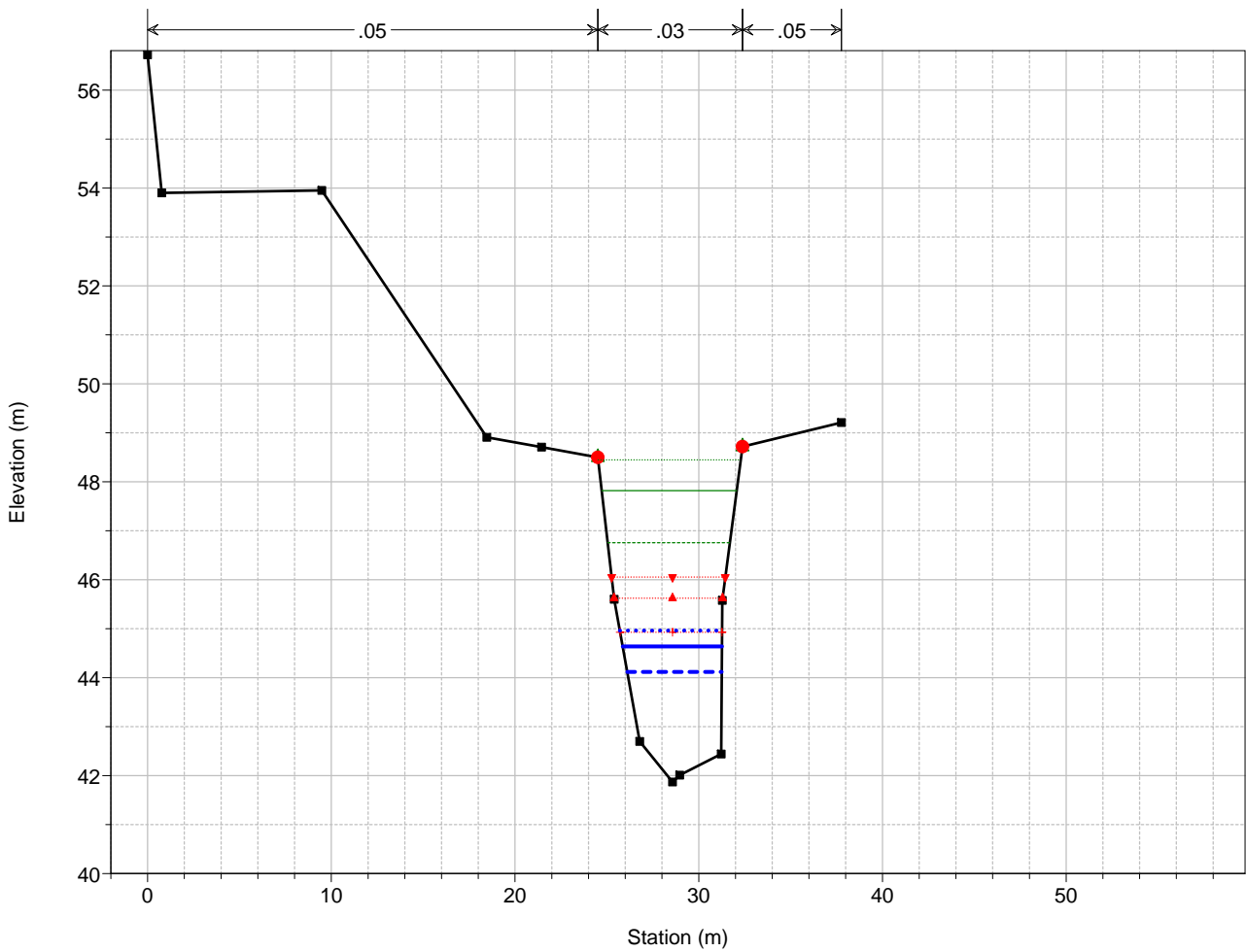


Legend	
EG Q500	(Solid green line)
EG Q200	(Solid blue line)
EG Q050	(Dotted green line)
PL Q500	(Dotted blue line)
Crit Q500	(Dotted red line with upward triangles)
Crit Q200	(Dotted red line with downward triangles)
PL Q200	(Solid blue line)
PL Q050	(Dashed blue line)
Crit Q050	(Dotted red line with plus signs)
Fondo	(Solid black line with square markers)
Sponda sx	(Dashed red line with downward triangles)
Sponda dx	(Dashed green line with upward triangles)

1 cm Horiz. = 25 m 1 cm Vert. = 2.5 m

Bisagno - Fasce DL180

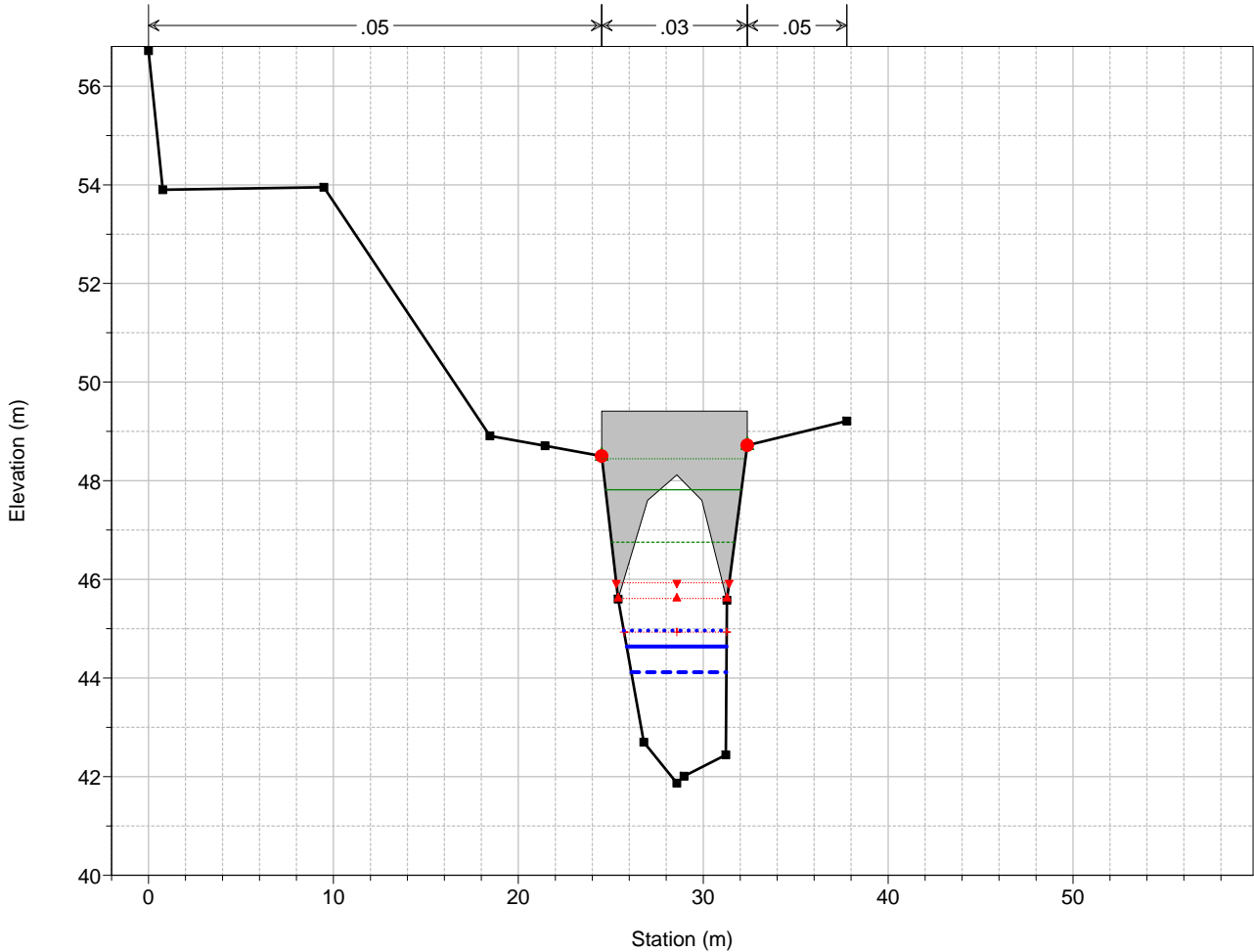
BM10



Legend	
EG Q500	(Green dotted line)
EG Q200	(Green solid line)
EG Q050	(Green dashed line)
Crit Q500	(Red dotted line)
Crit Q200	(Red solid line)
PL Q500	(Blue dotted line)
Crit Q050	(Red dashed line)
PL Q200	(Blue solid line)
PL Q050	(Blue dashed line)
Fondo	(Black square)
Ineff	(Green triangle)
Sponda	(Red circle)

Bisagno - Fasce DL180

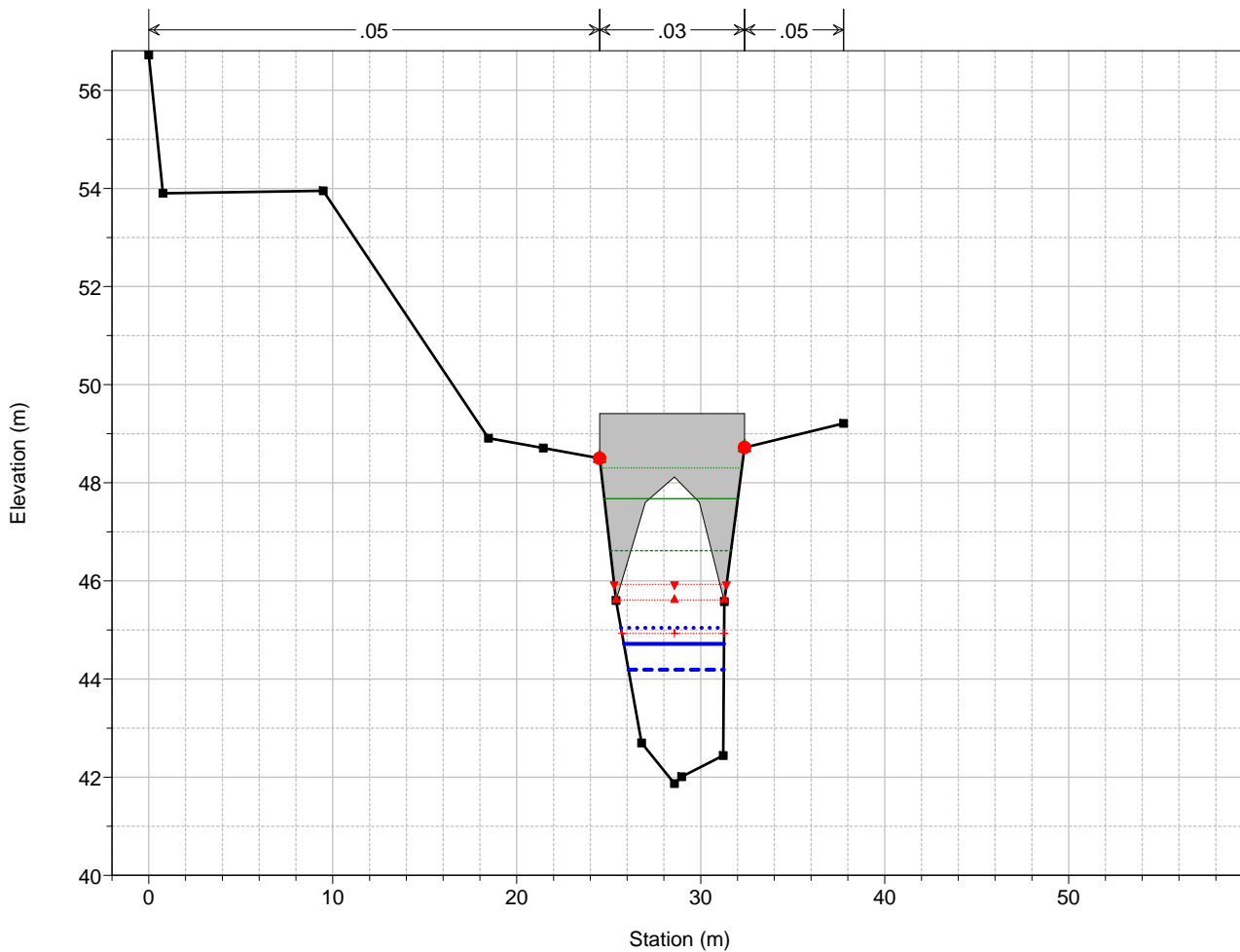
Ponte BM10



Legend	
EG Q500	(Green dotted line)
EG Q200	(Green solid line)
EG Q050	(Green dashed line)
Crit Q500	(Red dotted line)
Crit Q200	(Red solid line)
PL Q500	(Blue dotted line)
Crit Q050	(Red dashed line)
PL Q200	(Blue solid line)
PL Q050	(Blue dashed line)
Fondo	(Black square)
Ineff	(Green triangle)
Sponda	(Red circle)

Bisagno - Fasce DL180

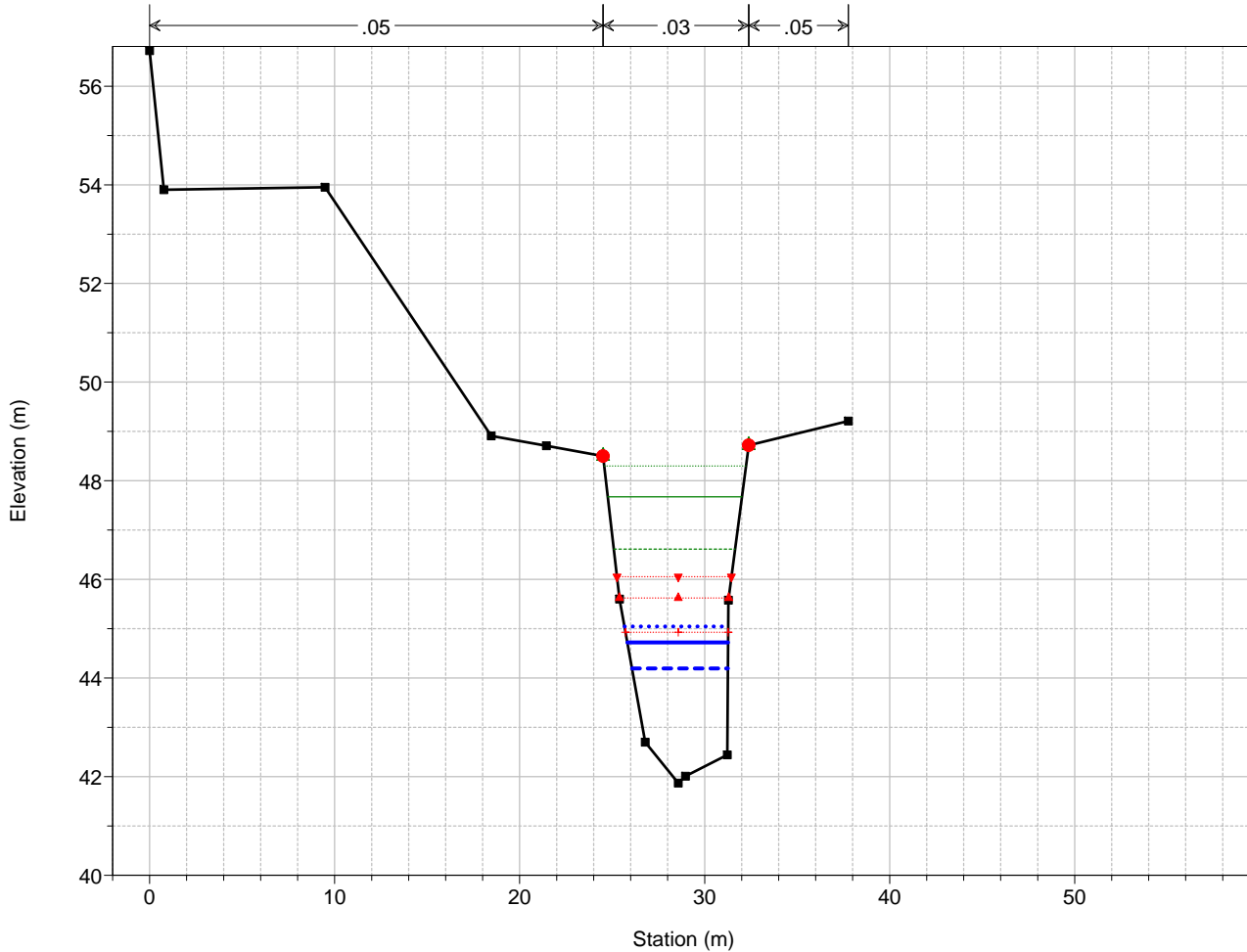
Ponte BM10



Legend	
EG Q500	Green dotted line
EG Q200	Green solid line
EG Q050	Green dashed line
Crit Q500	Red inverted triangle
Crit Q200	Red triangle
PL Q500	Blue dotted line
Crit Q050	Red plus sign
PL Q200	Blue solid line
PL Q050	Blue dashed line
Fondo	Black square
Ineff	Green triangle
Sponda	Red circle

Bisagno - Fasce DL180

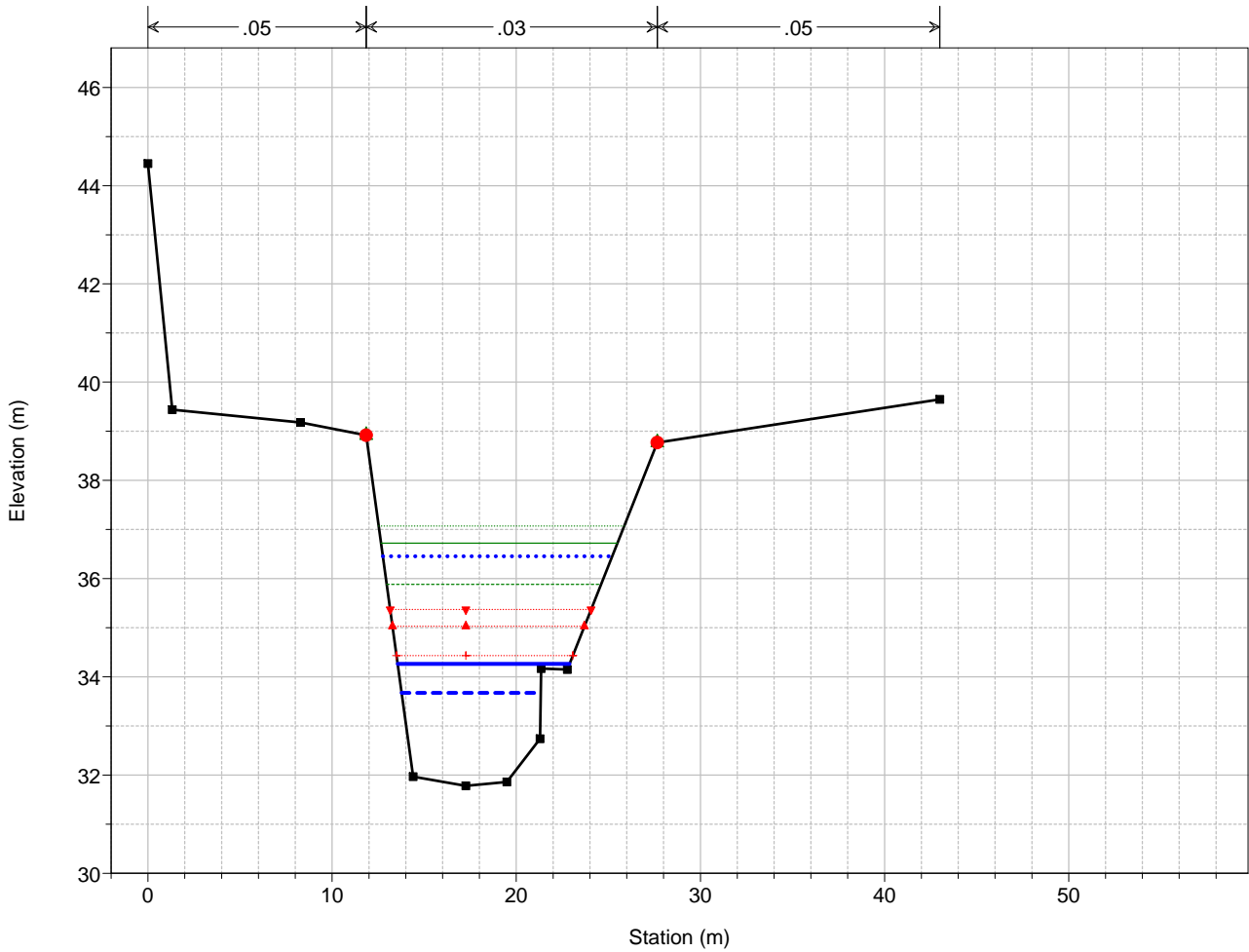
BM10valle



Legend	
EG Q500	Green dotted line
EG Q200	Green solid line
EG Q050	Green dashed line
Crit Q500	Red inverted triangle
Crit Q200	Red triangle
PL Q500	Blue dotted line
Crit Q050	Red plus sign
PL Q200	Blue solid line
PL Q050	Blue dashed line
Fondo	Black square
Ineff	Green triangle
Sponda	Red circle

Bisagno - Fasce DL180

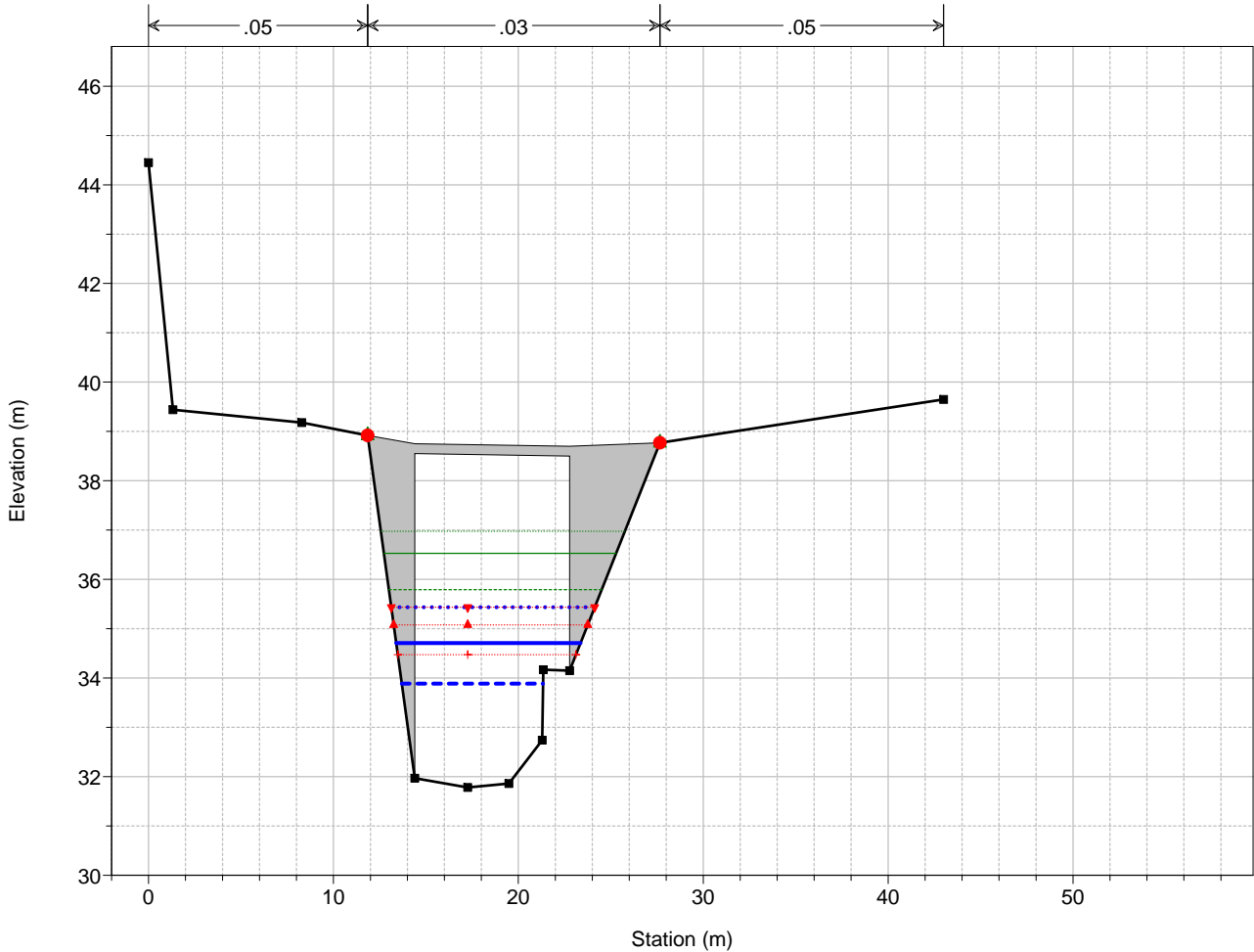
BM09



Legend	
EG Q500	(Dotted Green Line)
EG Q200	(Solid Green Line)
EG Q050	(Dotted Green Line)
Crit Q500	(Red Inverted Triangle)
Crit Q200	(Red Triangle)
Crit Q050	(Red Plus Sign)
PL Q200	(Solid Blue Line)
PL Q050	(Dashed Blue Line)
Fondo	(Solid Black Line)
Ineff	(Green Triangle)
Sponda	(Red Circle)

Bisagno - Fasce DL180

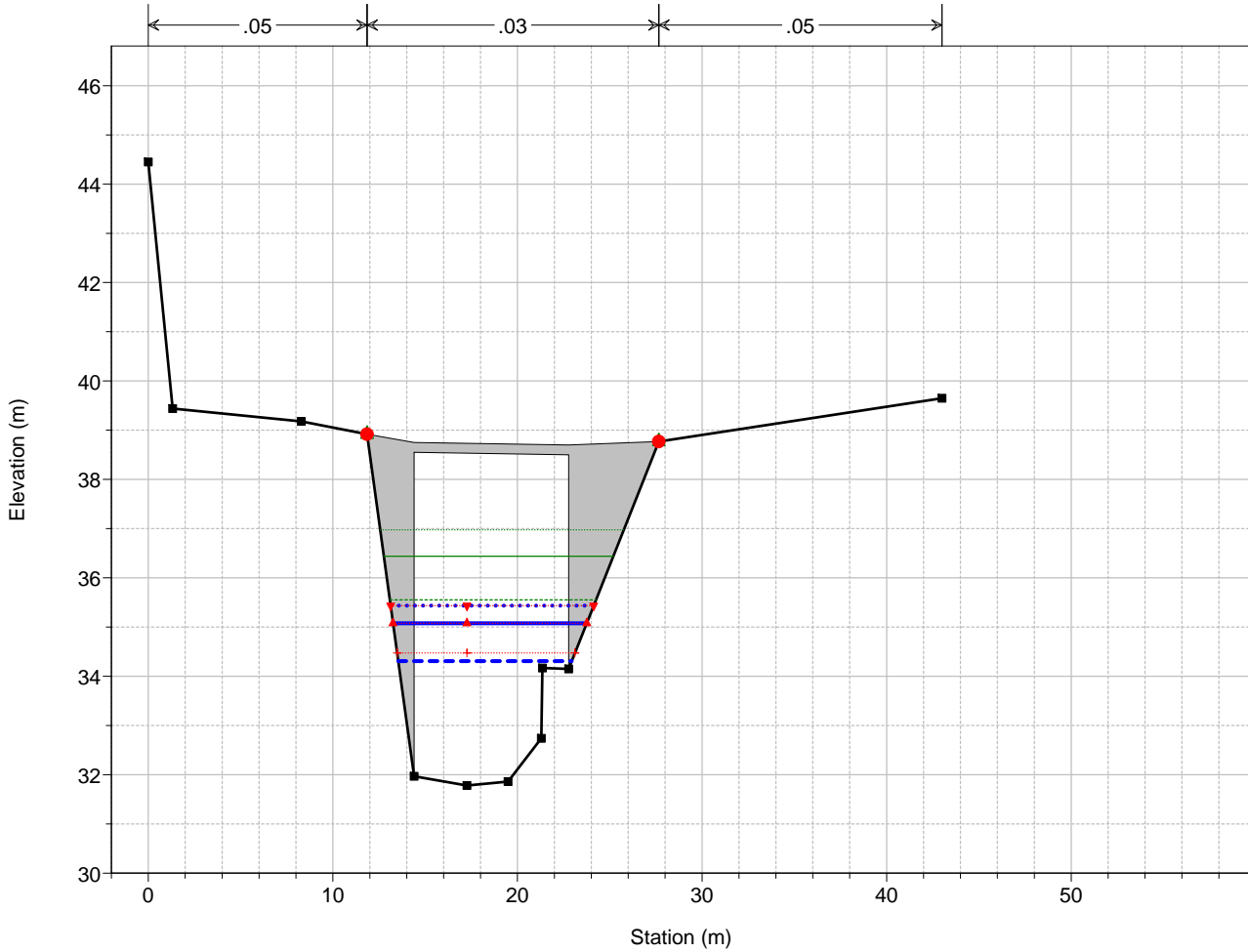
ponete BM09



Legend	
EG Q500	(Dotted Green Line)
EG Q200	(Solid Green Line)
EG Q050	(Dotted Green Line)
PL Q500	(Dotted Blue Line)
Crit Q500	(Red Inverted Triangle)
Crit Q200	(Red Triangle)
Crit Q050	(Red Plus Sign)
PL Q200	(Solid Blue Line)
PL Q050	(Dashed Blue Line)
Fondo	(Solid Black Line)
Ineff	(Green Triangle)
Sponda	(Red Circle)

Bisagno - Fasce DL180

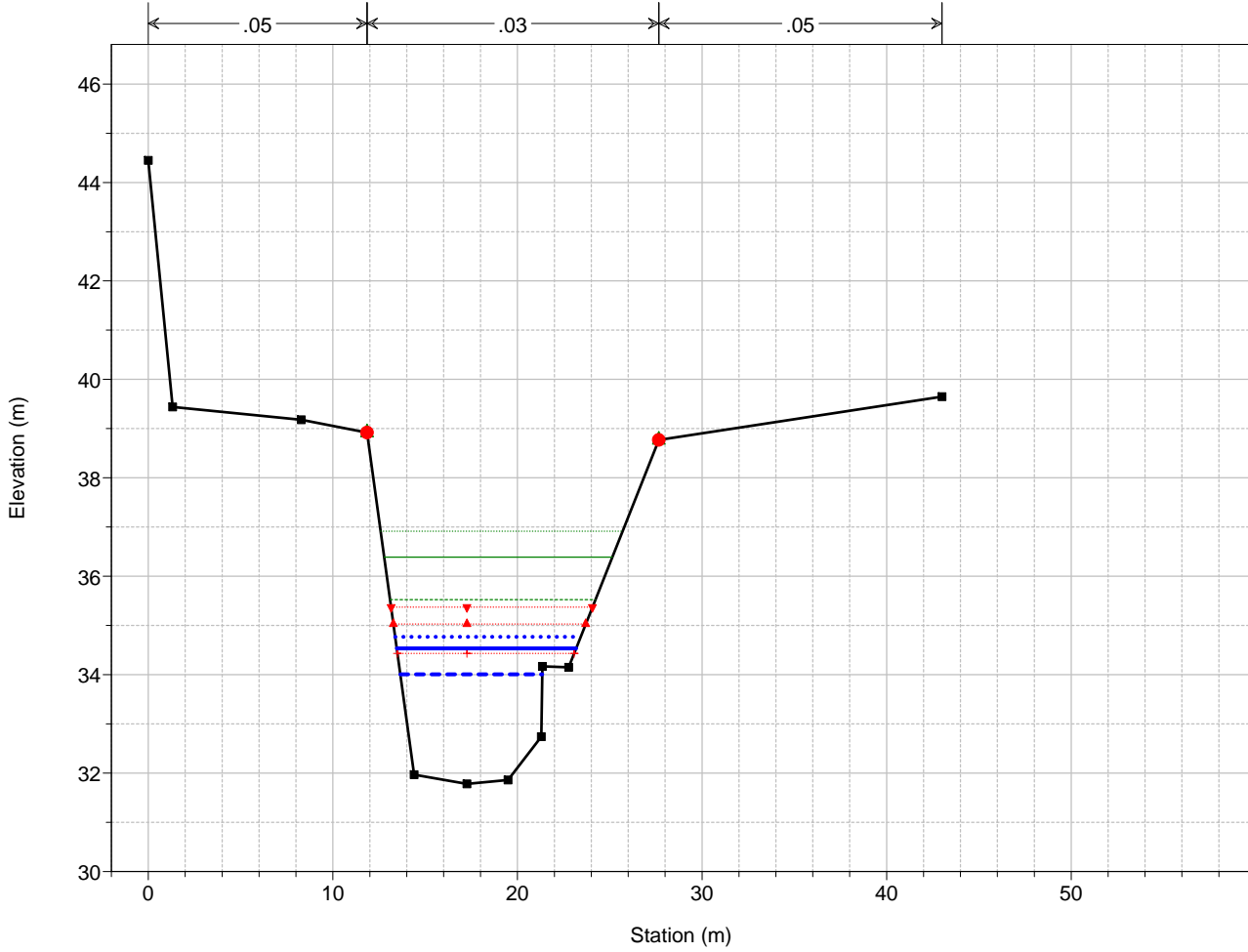
ponete BM09



Legend	
EG Q500	Green dotted line
EG Q200	Green solid line
EG Q050	Green dashed line
PL Q500	Blue dotted line
Crit Q500	Red dotted line with inverted triangles
Crit Q200	Red solid line with triangles
PL Q200	Blue solid line
Crit Q050	Red dashed line with crosses
PL Q050	Blue dashed line
Fondo	Black solid line with square markers
Ineff	Green solid line with triangle markers
Sponda	Red solid line with circle markers

Bisagno - Fasce DL180

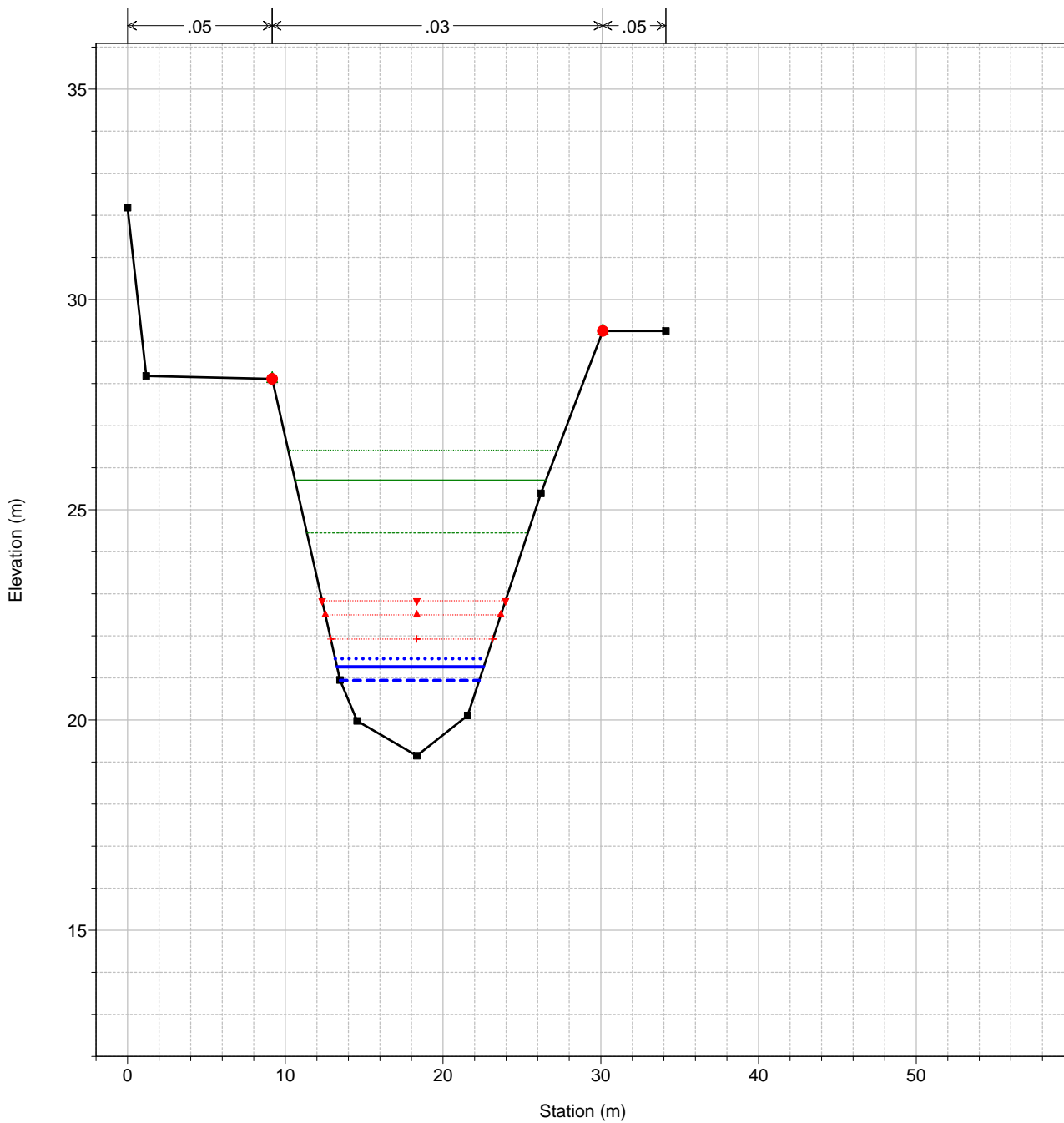
BM09 valle



Legend	
EG Q500	Green dotted line
EG Q200	Green solid line
EG Q050	Green dashed line
Crit Q500	Red dotted line with inverted triangles
Crit Q200	Red solid line with triangles
PL Q500	Blue dotted line
PL Q200	Blue solid line
Crit Q050	Red dashed line with crosses
PL Q050	Blue dashed line
Fondo	Black solid line with square markers
Ineff	Green solid line with triangle markers
Sponda	Red solid line with circle markers

Bisagno - Fasce DL180

BM08

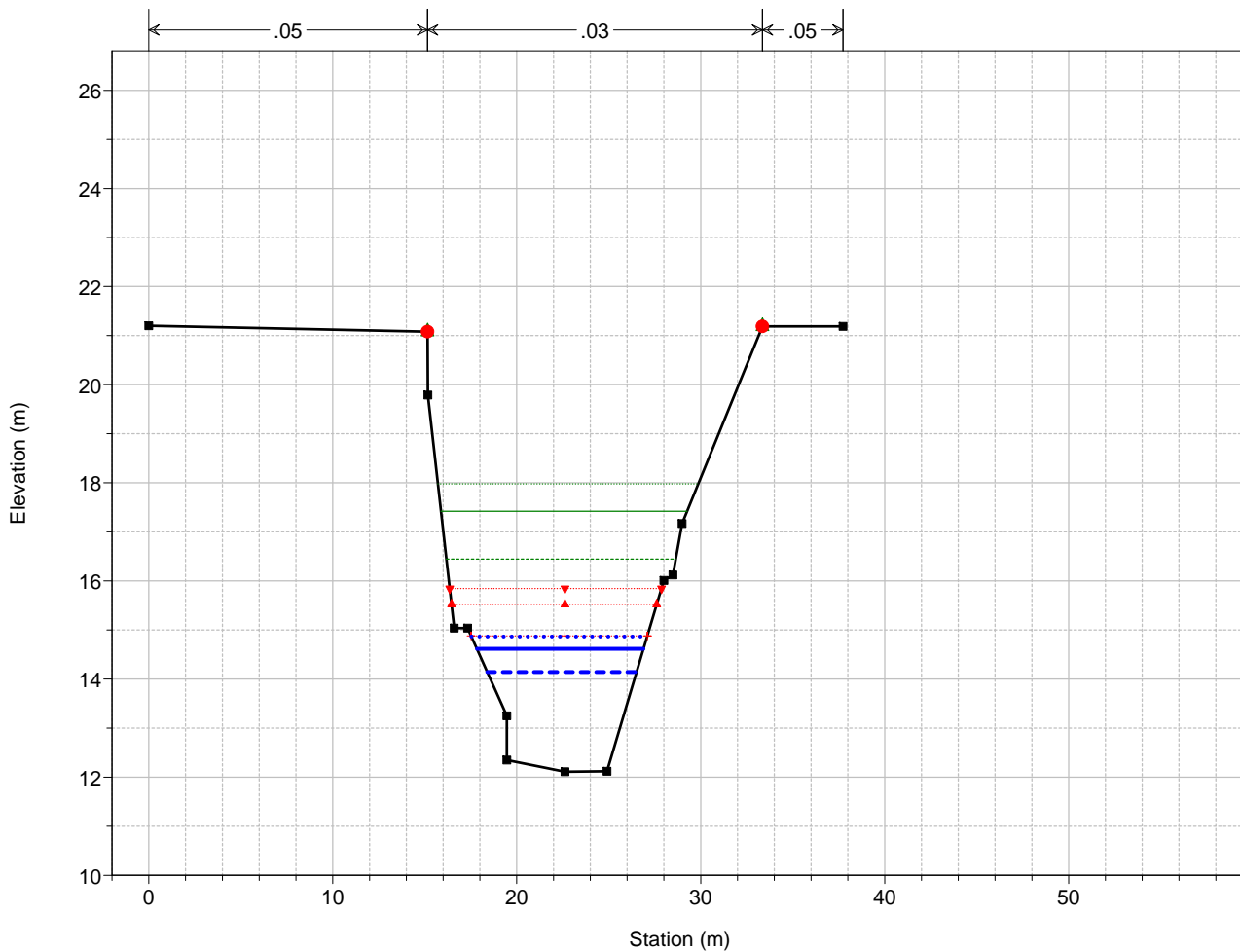


Legend	
EG Q500	(Dotted green line)
EG Q200	(Solid green line)
EG Q050	(Dotted green line)
Crit Q500	(Red inverted triangle)
Crit Q200	(Red triangle)
Crit Q050	(Red plus sign)
PL Q500	(Dotted blue line)
PL Q200	(Solid blue line)
PL Q050	(Dashed blue line)
Fondo	(Black line with square markers)
Ineff	(Green triangle)
Sponda	(Red circle)

1 cm Horiz. = 4 m 1 cm Vert. = 1.5 m

Bisagno - Fasce DL180

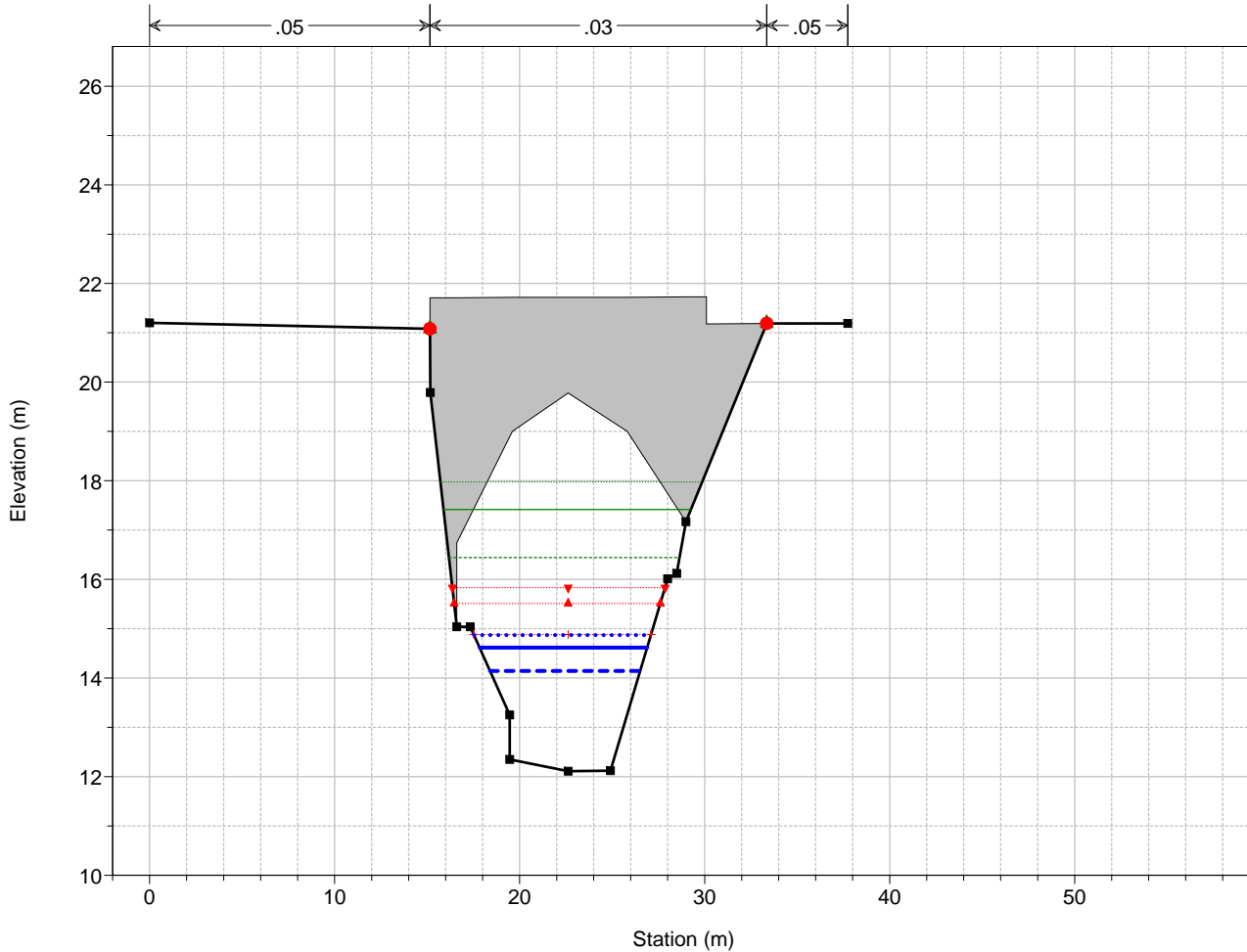
BM07



Legend	
EG Q500	--- (green)
EG Q200	--- (green)
EG Q050	--- (green)
Crit Q500	▼ (red)
Crit Q200	▲ (red)
Crit Q050	⊕ (red)
PL Q500	⋯ (blue)
PL Q200	— (blue)
PL Q050	- - - (blue)
Fondo	— (black)
Ineff	— (green)
Sponda	● (red)

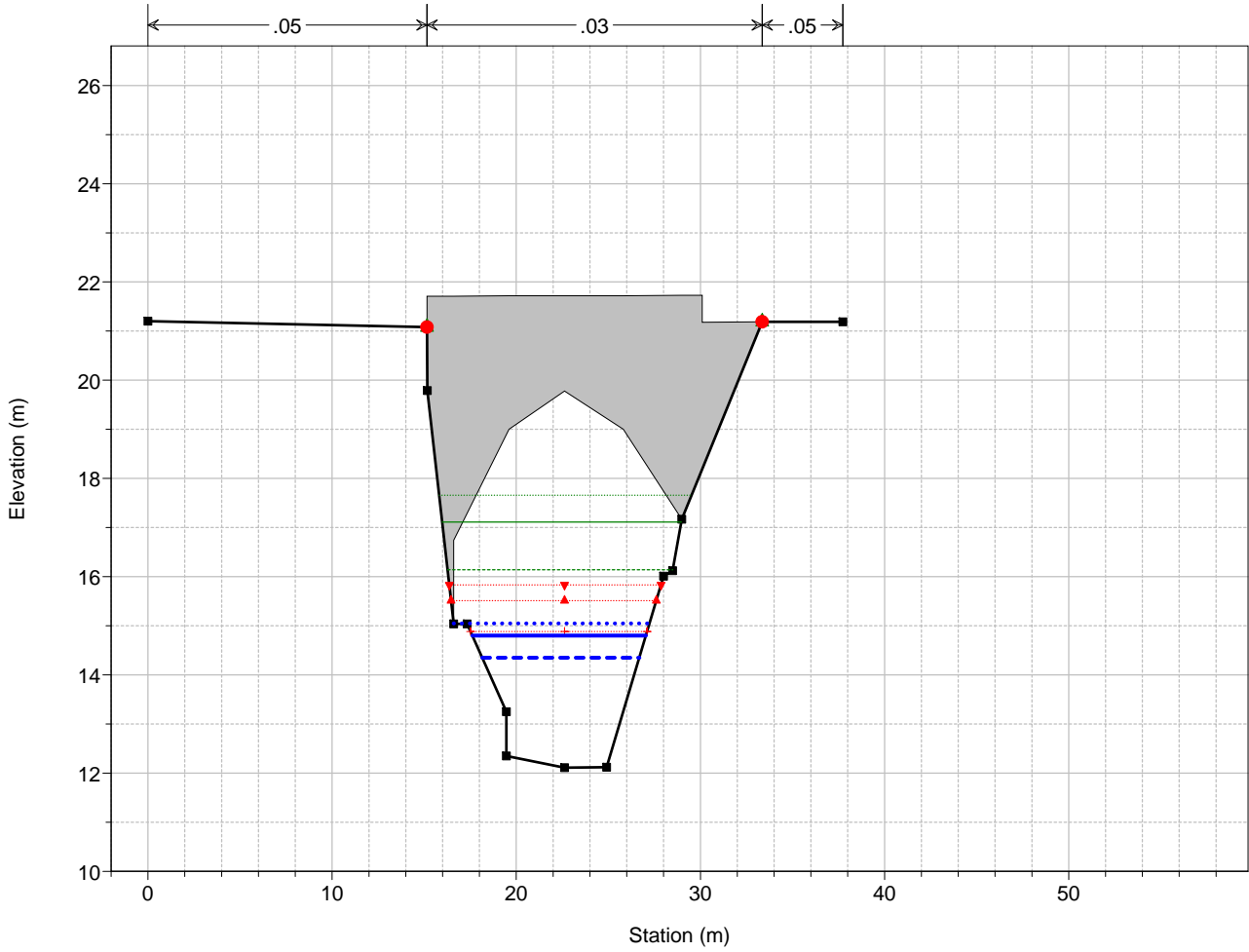
Bisagno - Fasce DL180

ponte BM07-pte Molacco



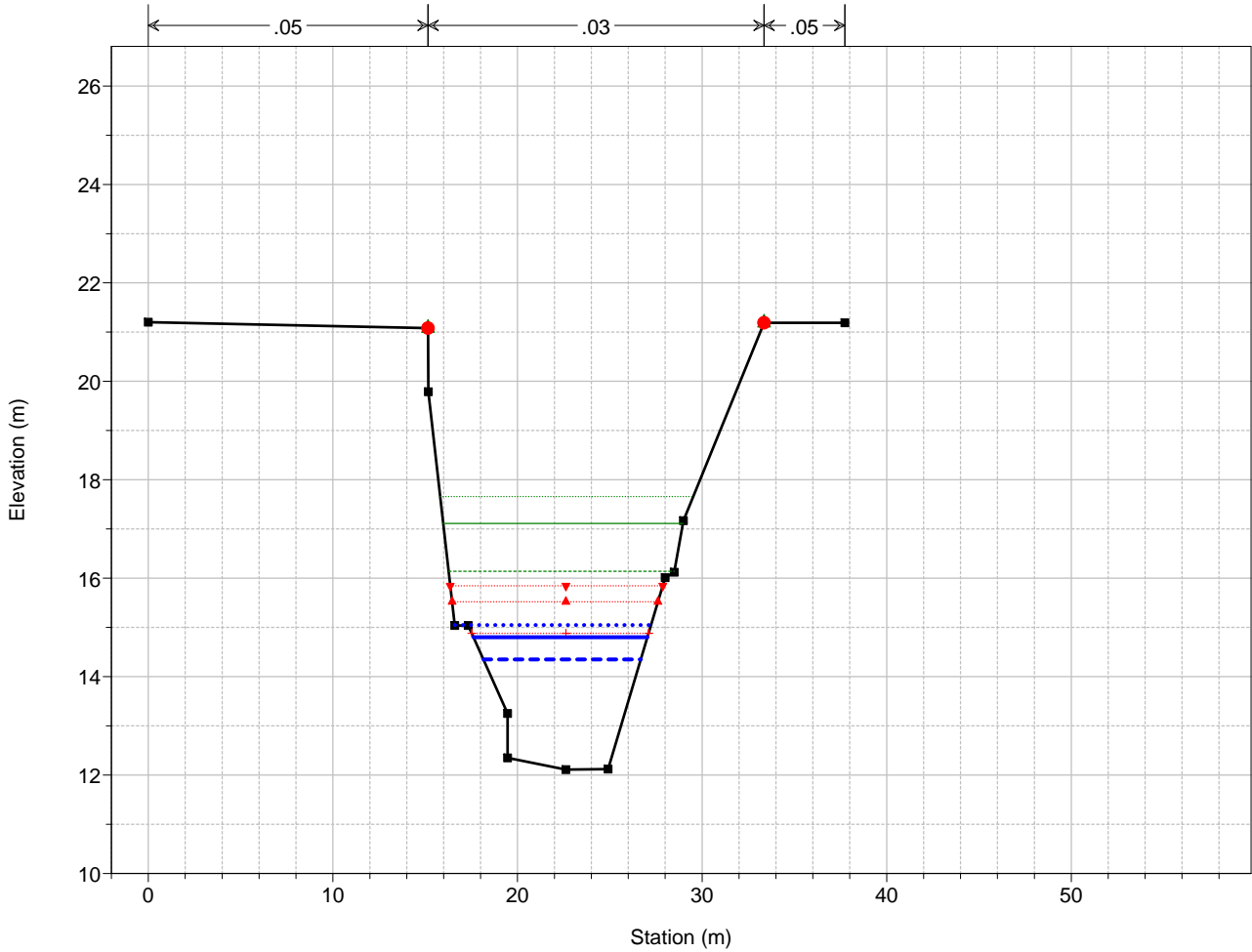
Legend	
EG Q500	--- (green)
EG Q200	--- (green)
EG Q050	--- (green)
Crit Q500	▼ (red)
Crit Q200	▲ (red)
Crit Q050	⊕ (red)
PL Q500	⋯ (blue)
PL Q200	— (blue)
PL Q050	- - - (blue)
Fondo	— (black)
Ineff	— (green)
Sponda	● (red)

Bisagno - Fasce DL180
 ponte BM07-pte Molacco



Legend	
EG Q500	(Dotted Green Line)
EG Q200	(Solid Green Line)
EG Q050	(Dotted Green Line)
Crit Q500	(Solid Red Line with Downward Triangle)
Crit Q200	(Dotted Red Line with Upward Triangle)
PL Q500	(Dotted Blue Line with Cross)
Crit Q050	(Dotted Red Line with Cross)
PL Q200	(Solid Blue Line with Cross)
PL Q050	(Dashed Blue Line with Cross)
Fondo	(Solid Black Line with Square)
Ineff	(Solid Green Line with Upward Triangle)
Sponda	(Solid Red Line with Circle)

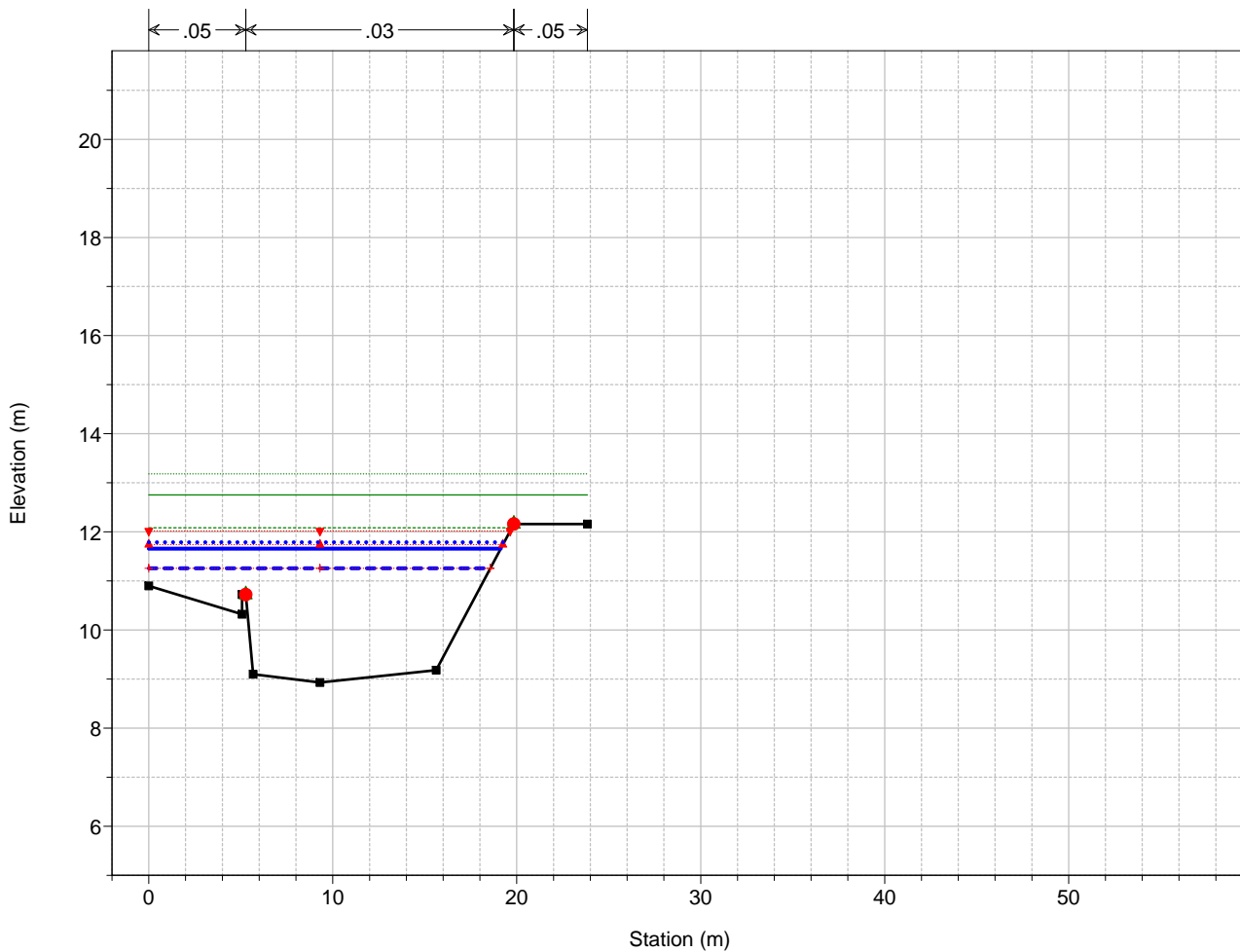
Bisagno - Fasce DL180
 BM07



Legend	
EG Q500	(Dotted Green Line)
EG Q200	(Solid Green Line)
EG Q050	(Dotted Green Line)
Crit Q500	(Solid Red Line with Downward Triangle)
Crit Q200	(Dotted Red Line with Upward Triangle)
PL Q500	(Dotted Blue Line with Cross)
Crit Q050	(Dotted Red Line with Cross)
PL Q200	(Solid Blue Line with Cross)
PL Q050	(Dashed Blue Line with Cross)
Fondo	(Solid Black Line with Square)
Ineff	(Solid Green Line with Upward Triangle)
Sponda	(Solid Red Line with Circle)

Bisagno - Fasce DL180

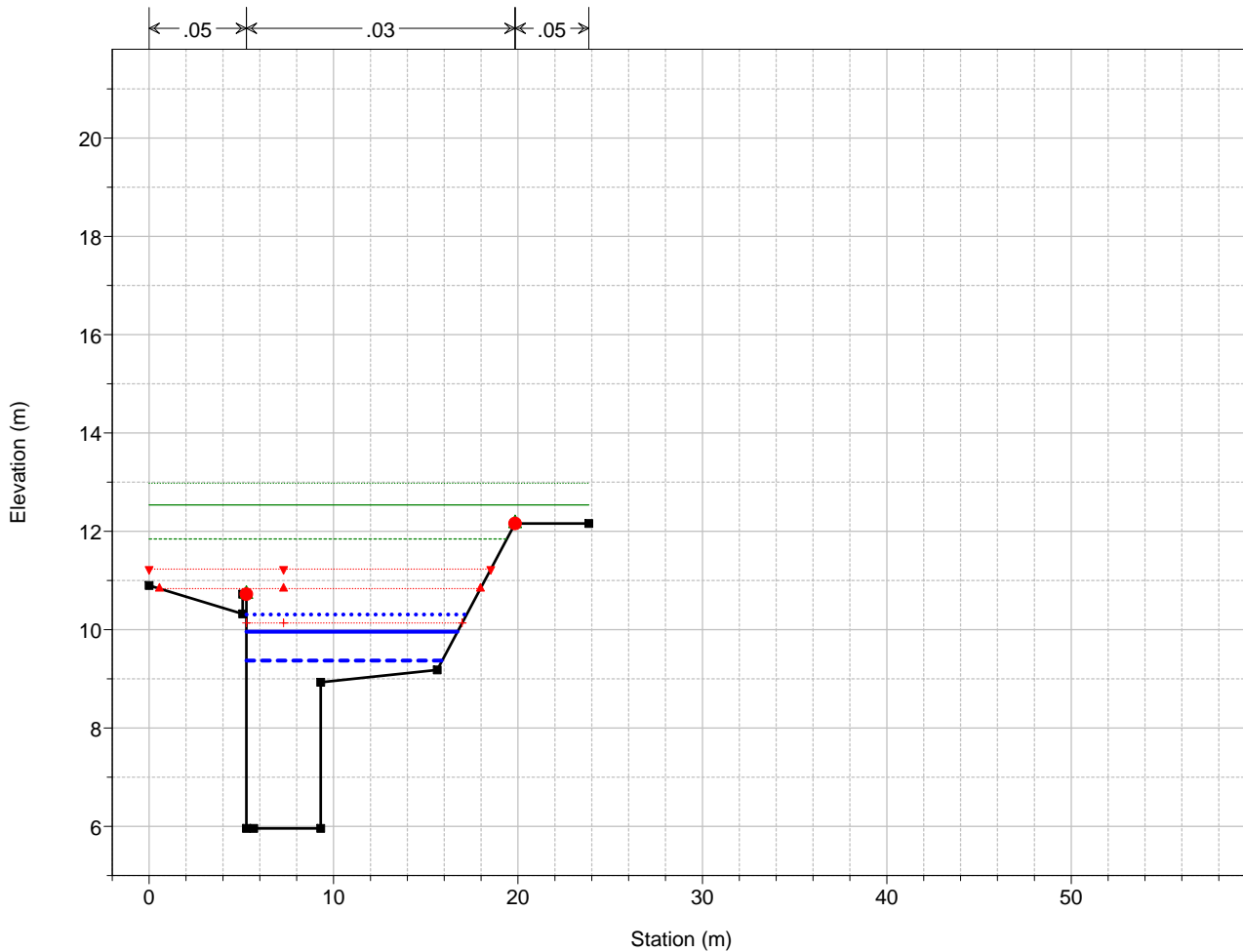
BM06



Legend	
EG Q500	(Green dotted line)
EG Q200	(Green solid line)
EG Q050	(Green dashed line)
Crit Q500	(Red line with inverted triangle)
PL Q500	(Blue dotted line)
Crit Q200	(Red line with triangle)
PL Q200	(Blue solid line)
PL Q050	(Blue dashed line)
Crit Q050	(Red line with plus)
Fondo	(Black line with square)
Ineff	(Green line with triangle)
Sponda	(Red dot)

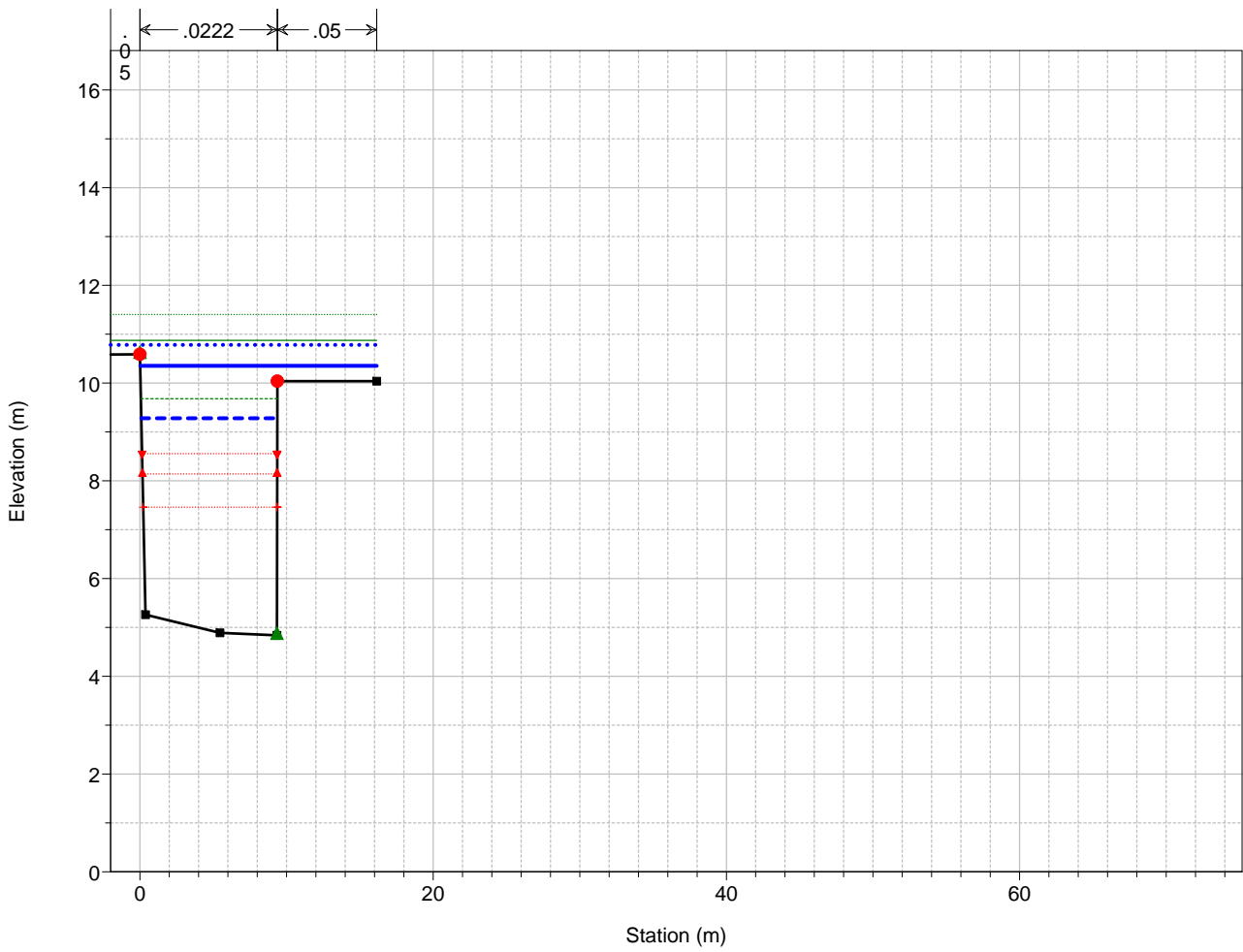
Bisagno - Fasce DL180

BM6v

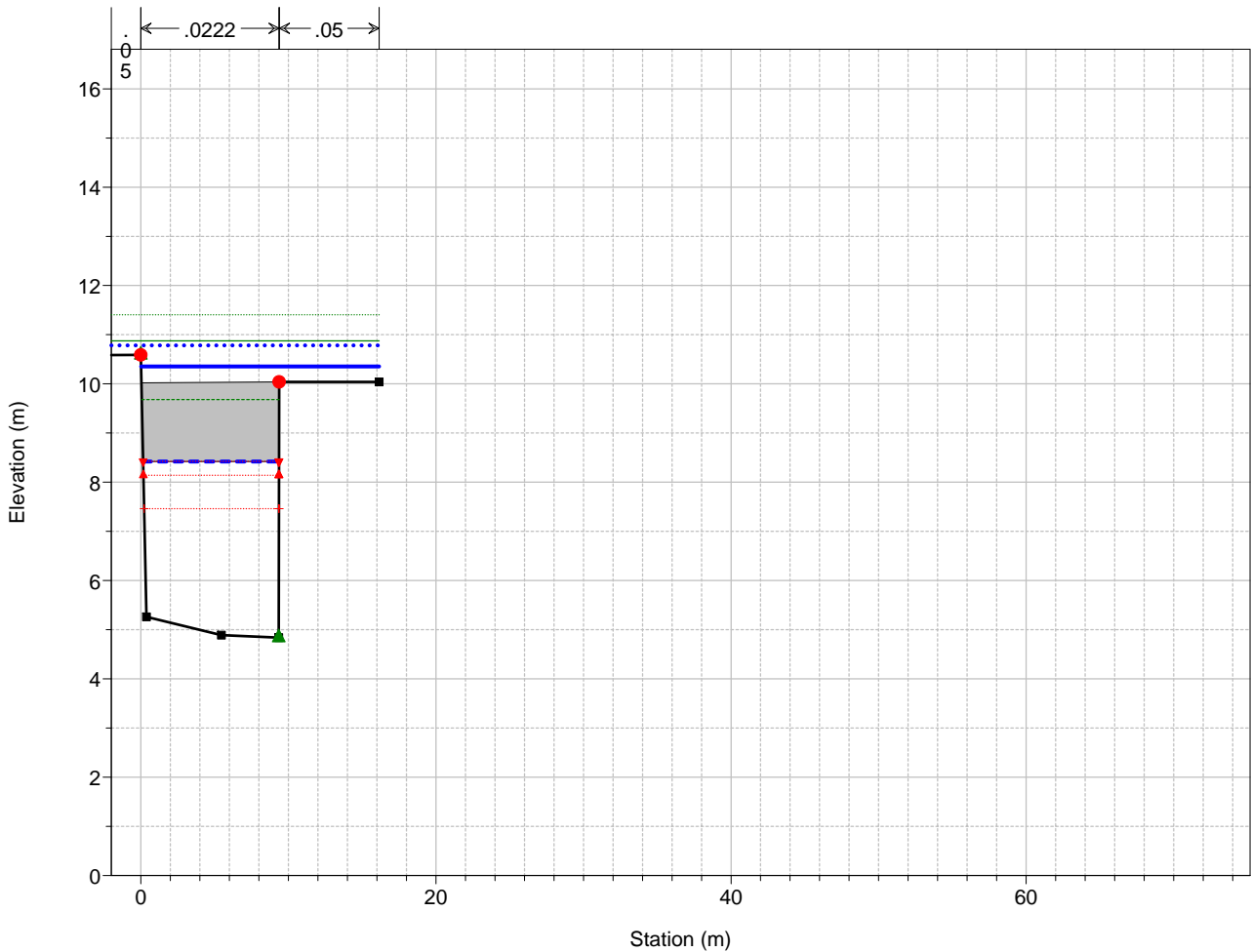


Legend	
EG Q500	(Green dotted line)
EG Q200	(Green solid line)
EG Q050	(Green dashed line)
Crit Q500	(Red line with inverted triangle)
PL Q500	(Blue dotted line)
Crit Q200	(Red line with triangle)
PL Q200	(Blue solid line)
PL Q050	(Blue dashed line)
Crit Q050	(Red line with plus)
Fondo	(Black line with square)
Ineff	(Green line with triangle)
Sponda	(Red dot)

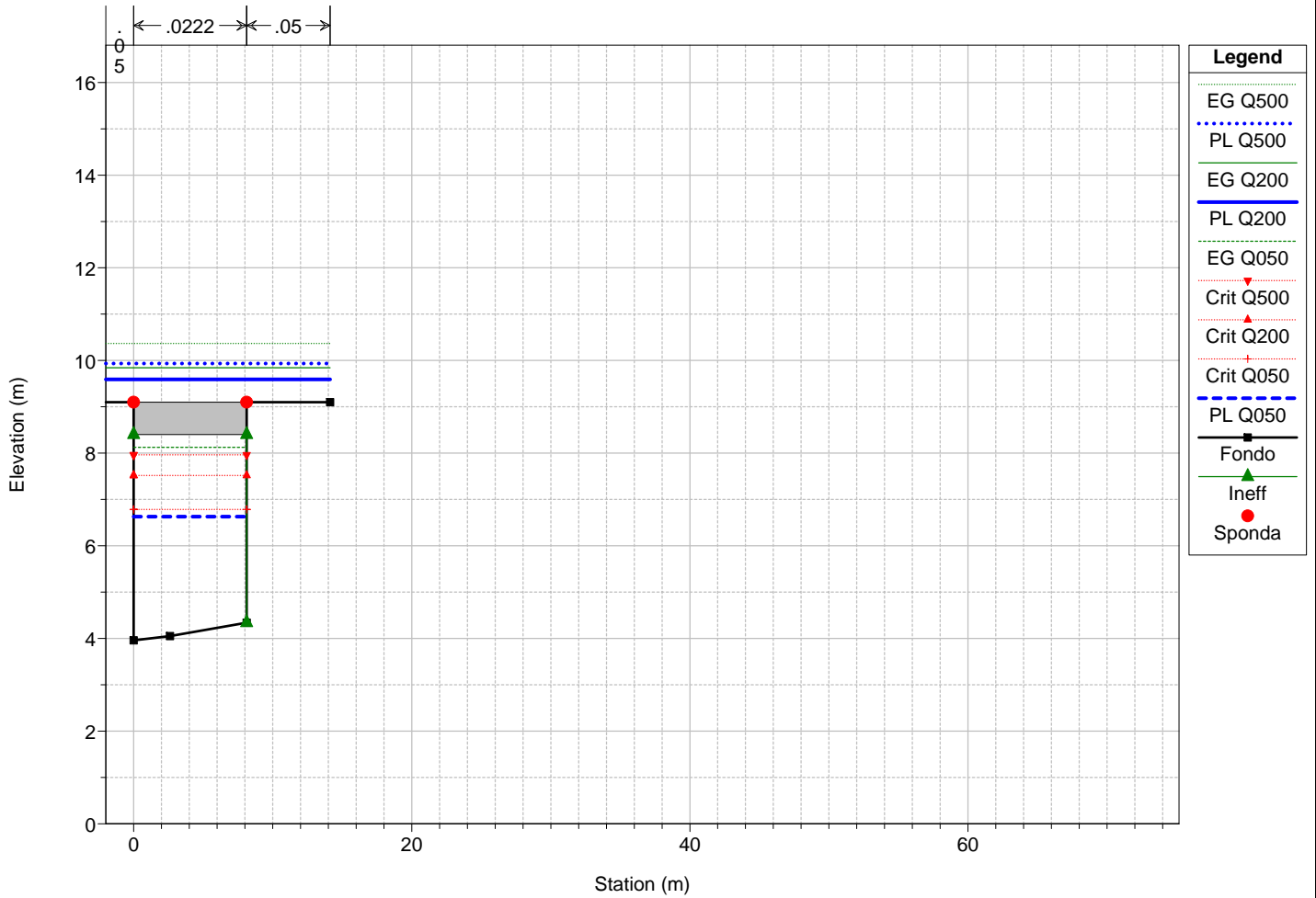
Bisagno - Fasce DL180
BM05



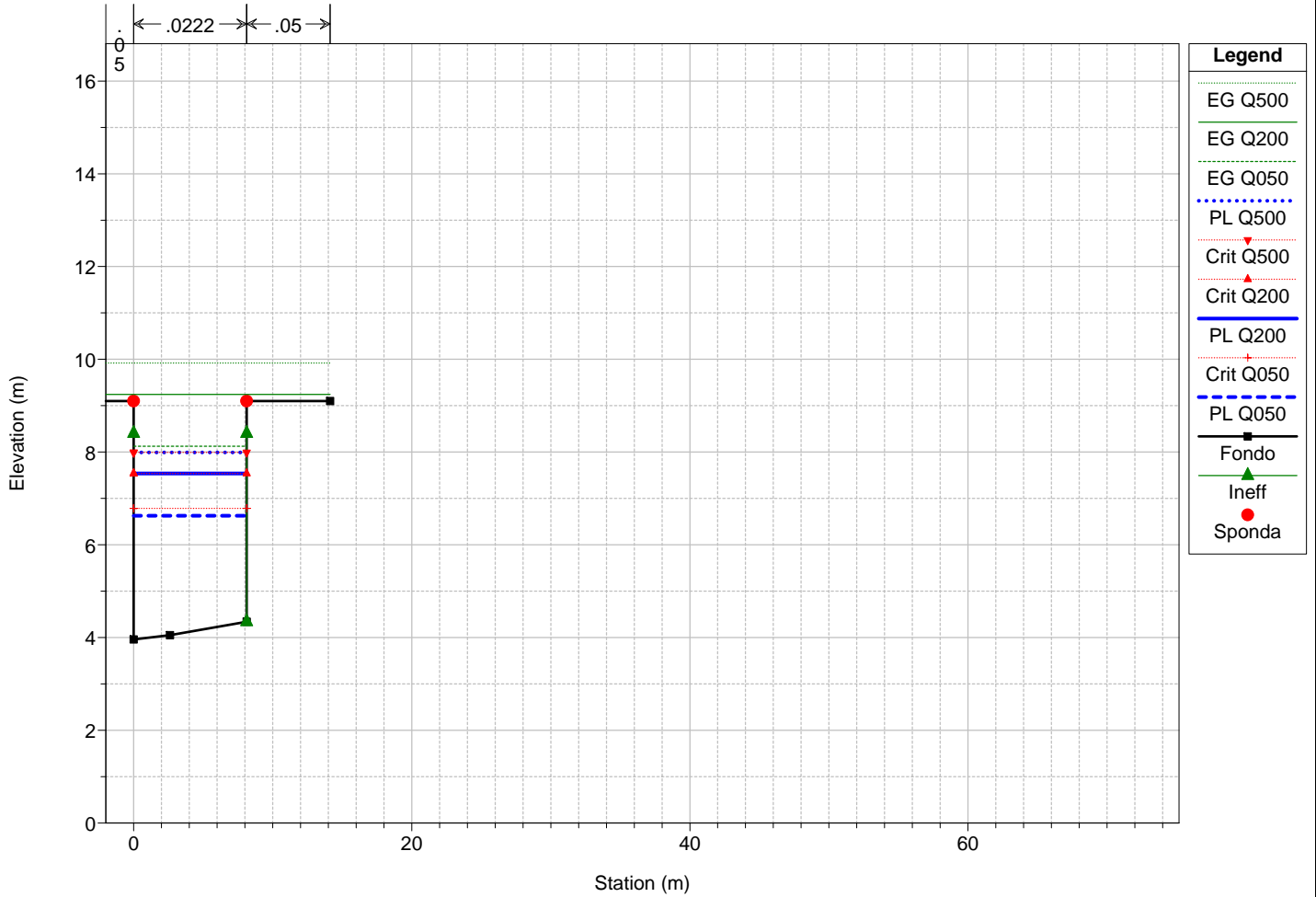
Bisagno - Fasce DL180
tombinatura tra BM05-BM04



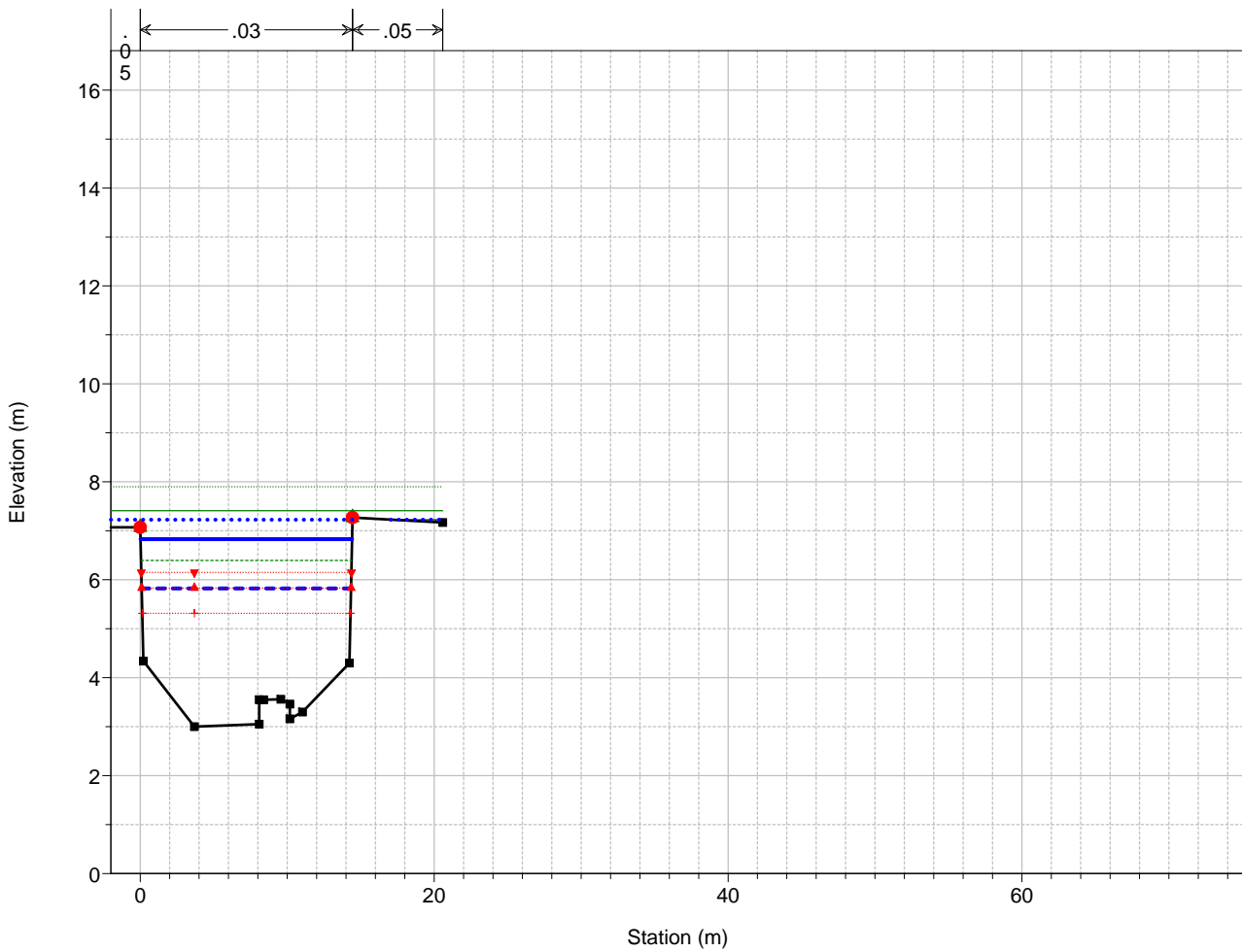
Bisagno - Fasce DL180
tombinatura tra BM05-BM04



Bisagno - Fasce DL180
BM04

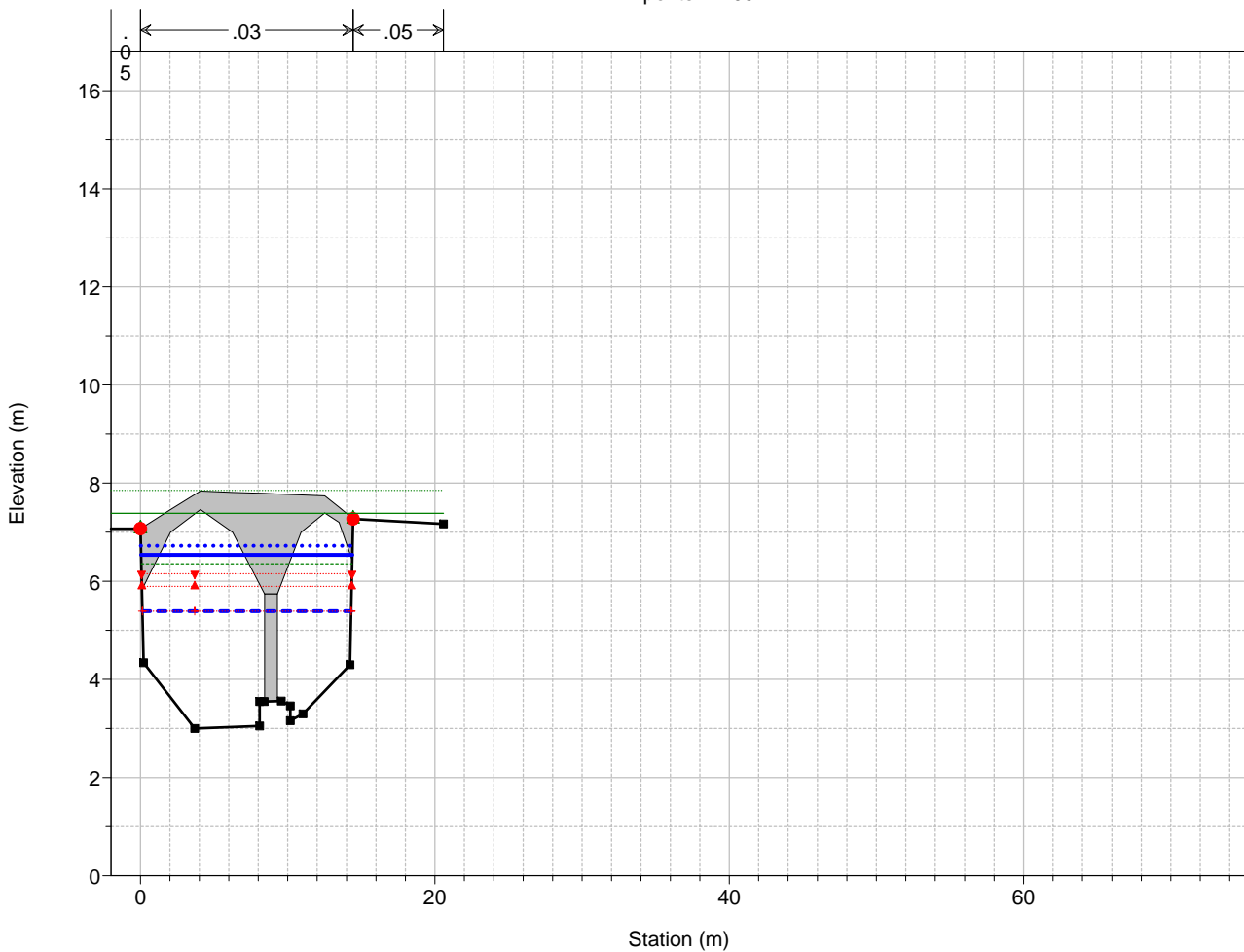


Bisagno - Fasce DL180
BM03



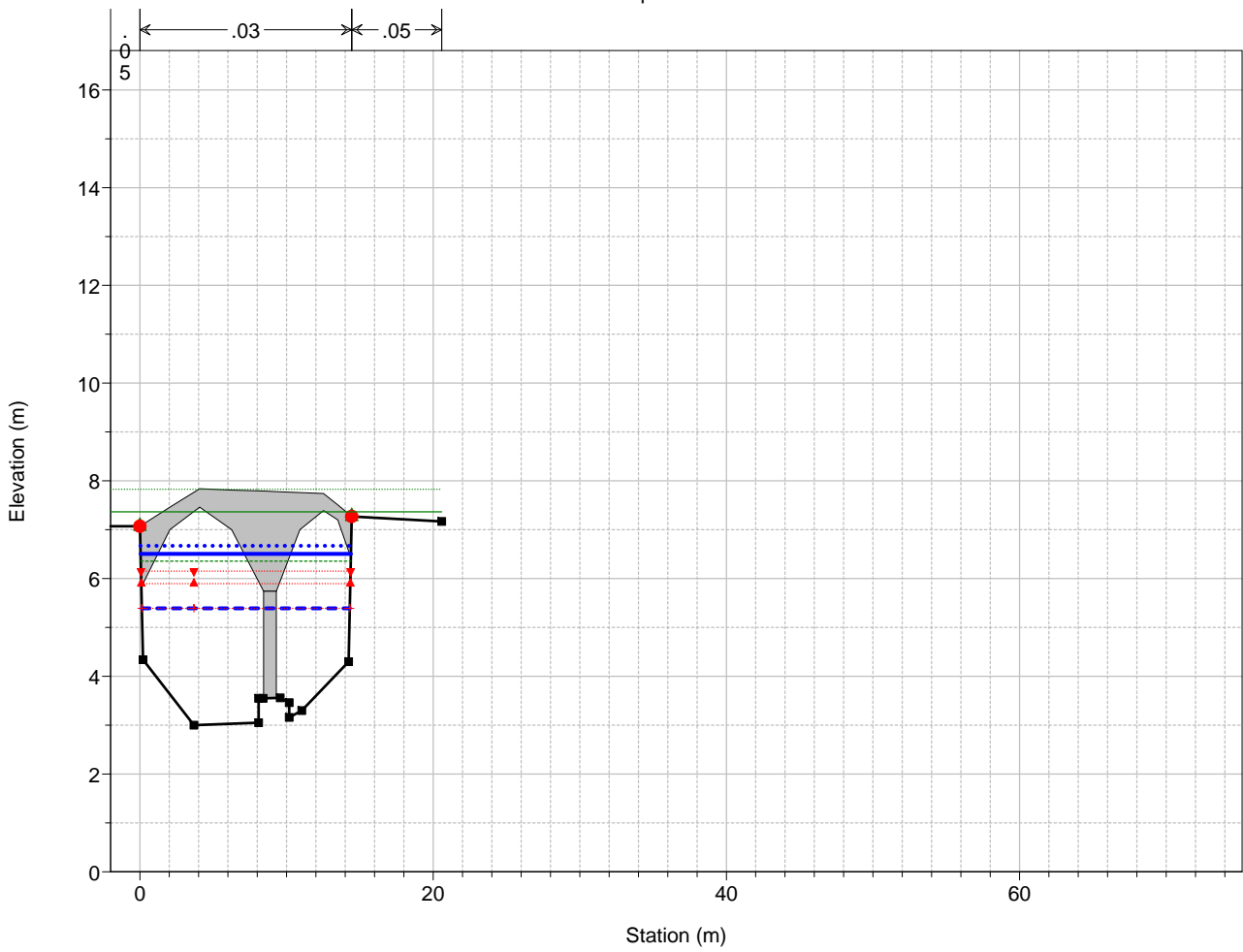
Legend	
EG Q500	—
EG Q200	—
PL Q500	—
PL Q200	—
EG Q050	—
Crit Q500	▼
Crit Q200	▲
PL Q050	—
Crit Q050	+
Fondo	■
Ineff	▲
Sponda	●

Bisagno - Fasce DL180
ponte BM03



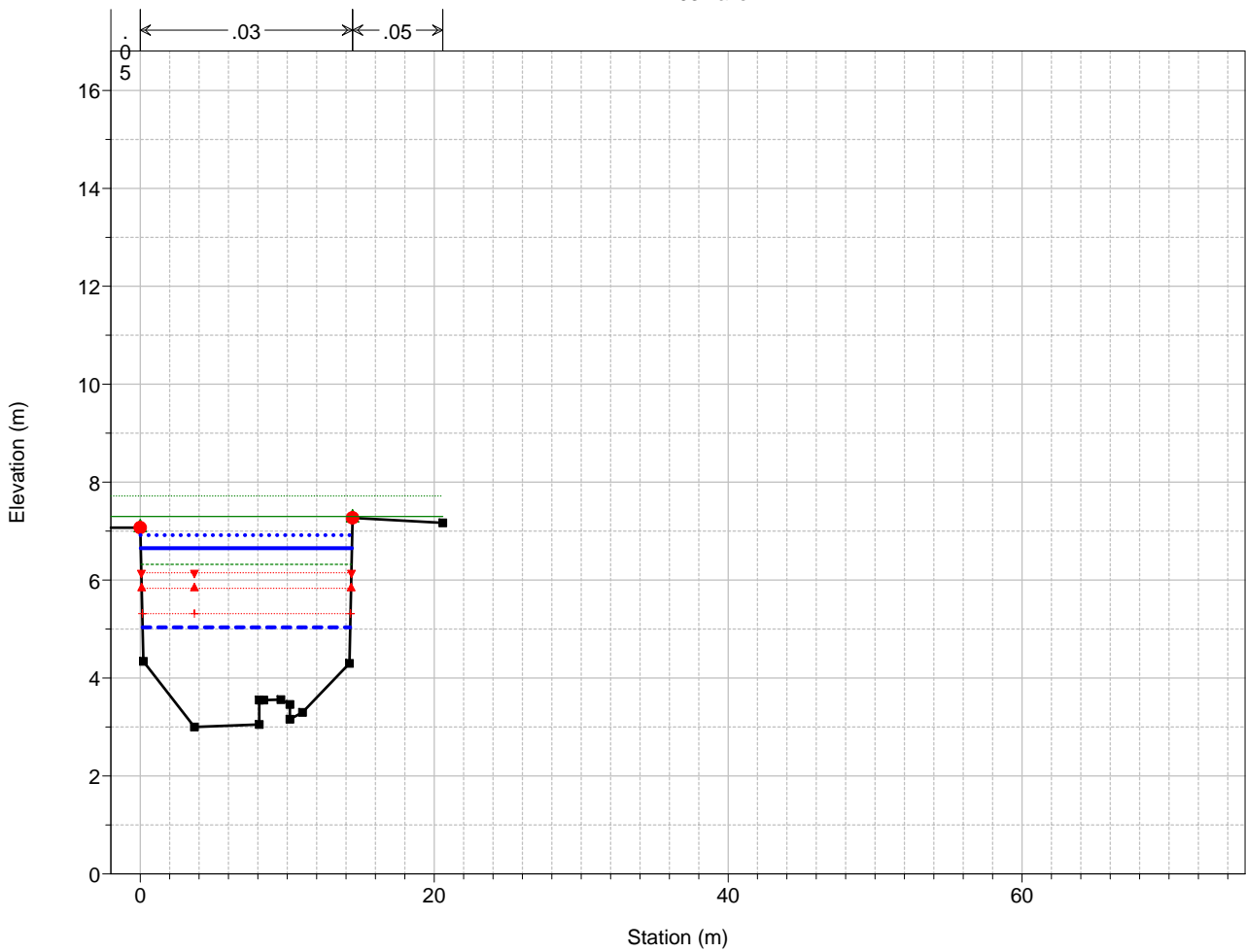
Legend	
EG Q500	—
EG Q200	—
PL Q500	—
PL Q200	—
EG Q050	—
Crit Q500	▼
Crit Q200	▲
PL Q050	—
Crit Q050	+
Fondo	■
Ineff	▲
Sponda	●

Bisagno - Fasce DL180
 ponte BM03



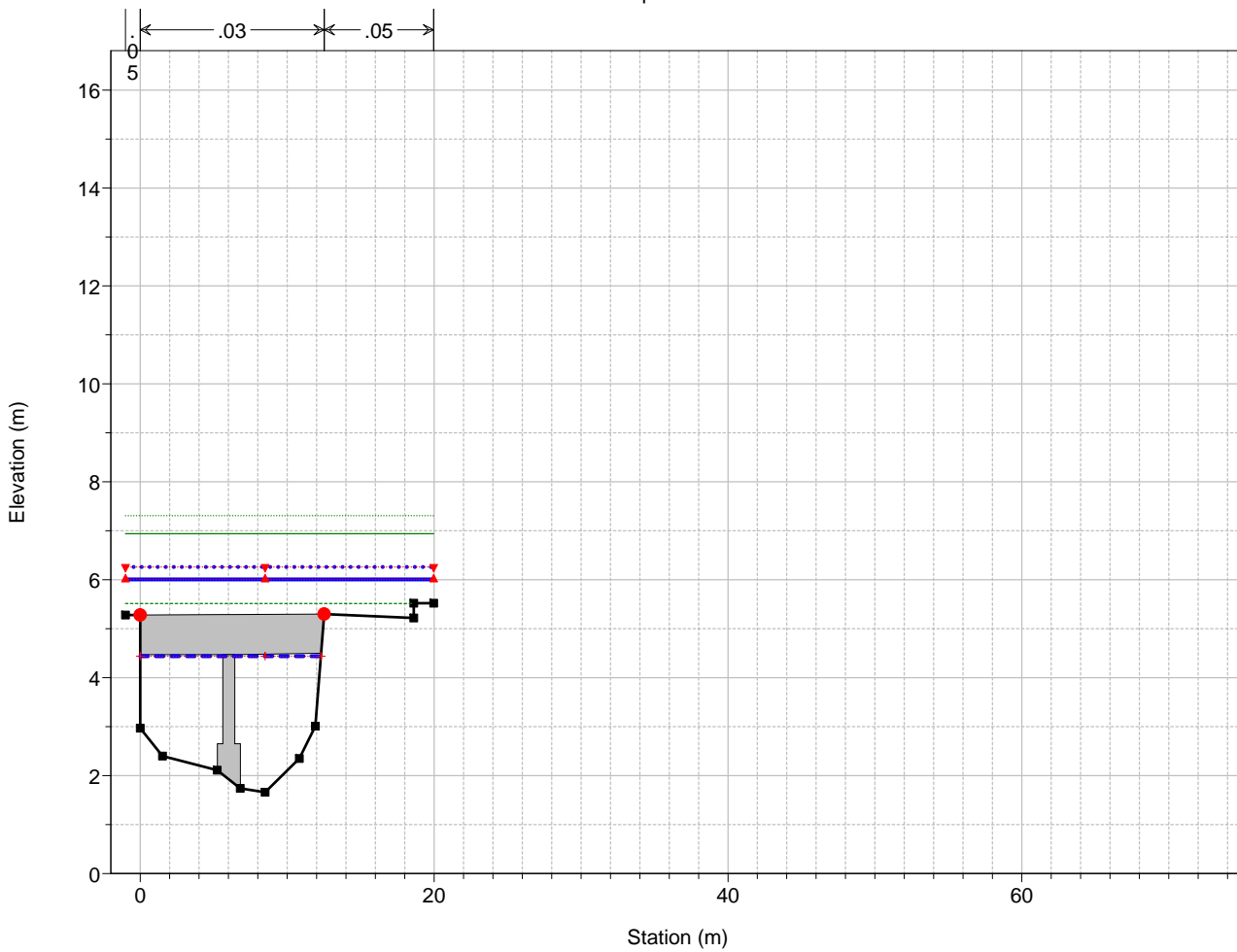
Legend	
EG Q500	Green dotted line
EG Q200	Green solid line
PL Q500	Blue dotted line
PL Q200	Blue solid line
EG Q050	Green dashed line
Crit Q500	Red inverted triangle
Crit Q200	Red triangle
PL Q050	Blue dashed line
Crit Q050	Red plus sign
Fondo	Black solid line
Ineff	Green triangle
Sponda	Red circle

Bisagno - Fasce DL180
 BM03 valle



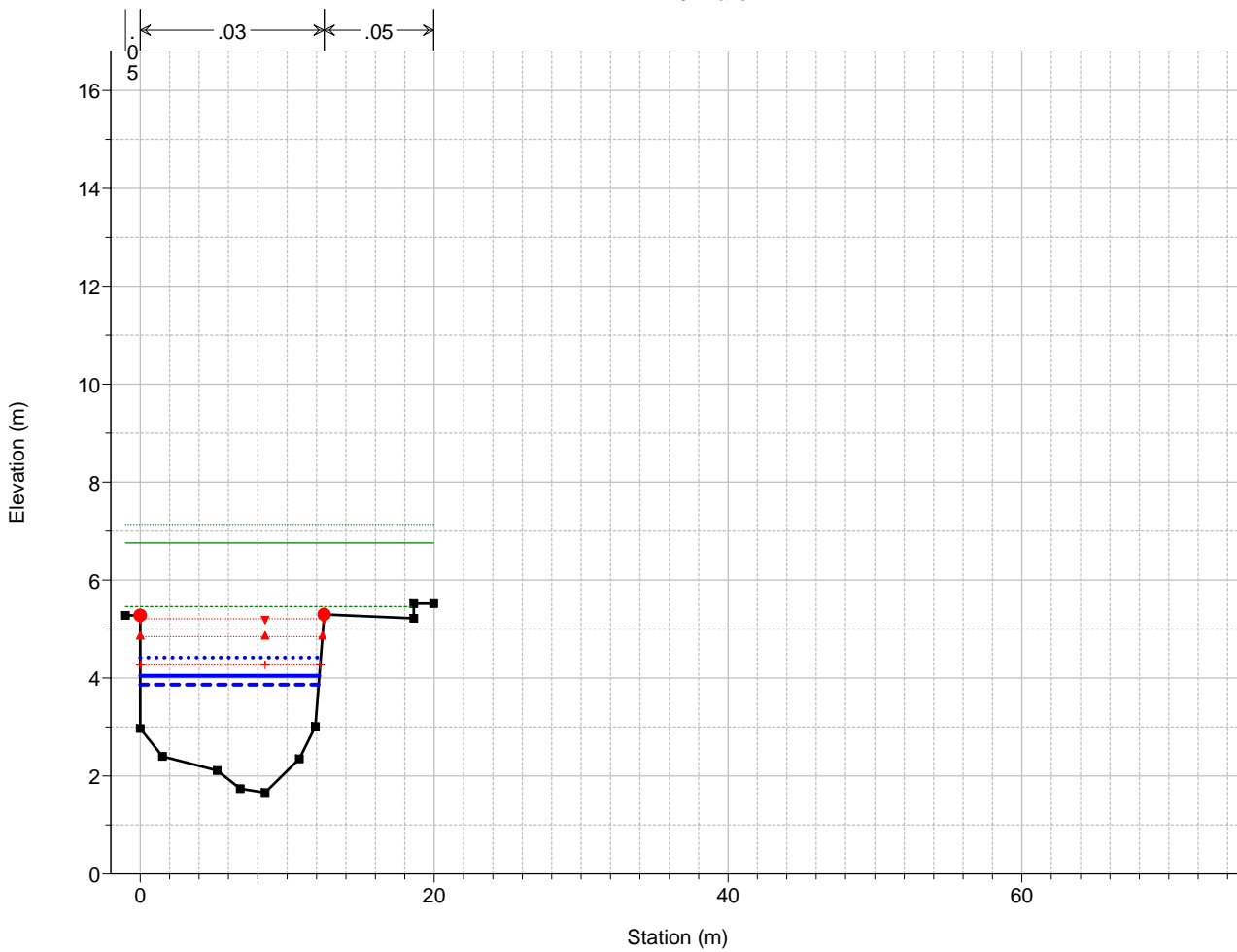
Legend	
EG Q500	Green dotted line
EG Q200	Green solid line
PL Q500	Blue dotted line
PL Q200	Blue solid line
EG Q050	Green dashed line
Crit Q500	Red inverted triangle
Crit Q200	Red triangle
Crit Q050	Red plus sign
PL Q050	Blue dashed line
Fondo	Black solid line
Ineff	Green triangle
Sponda	Red circle

Bisagno - Fasce DL180
 ponte BM02



Legend	
EG Q500	—
EG Q200	—
PL Q500	—
Crit Q500	▼
Crit Q200	▲
PL Q200	—
EG Q050	—
PL Q050	—
Crit Q050	+
Fondo	■
Sponda	●

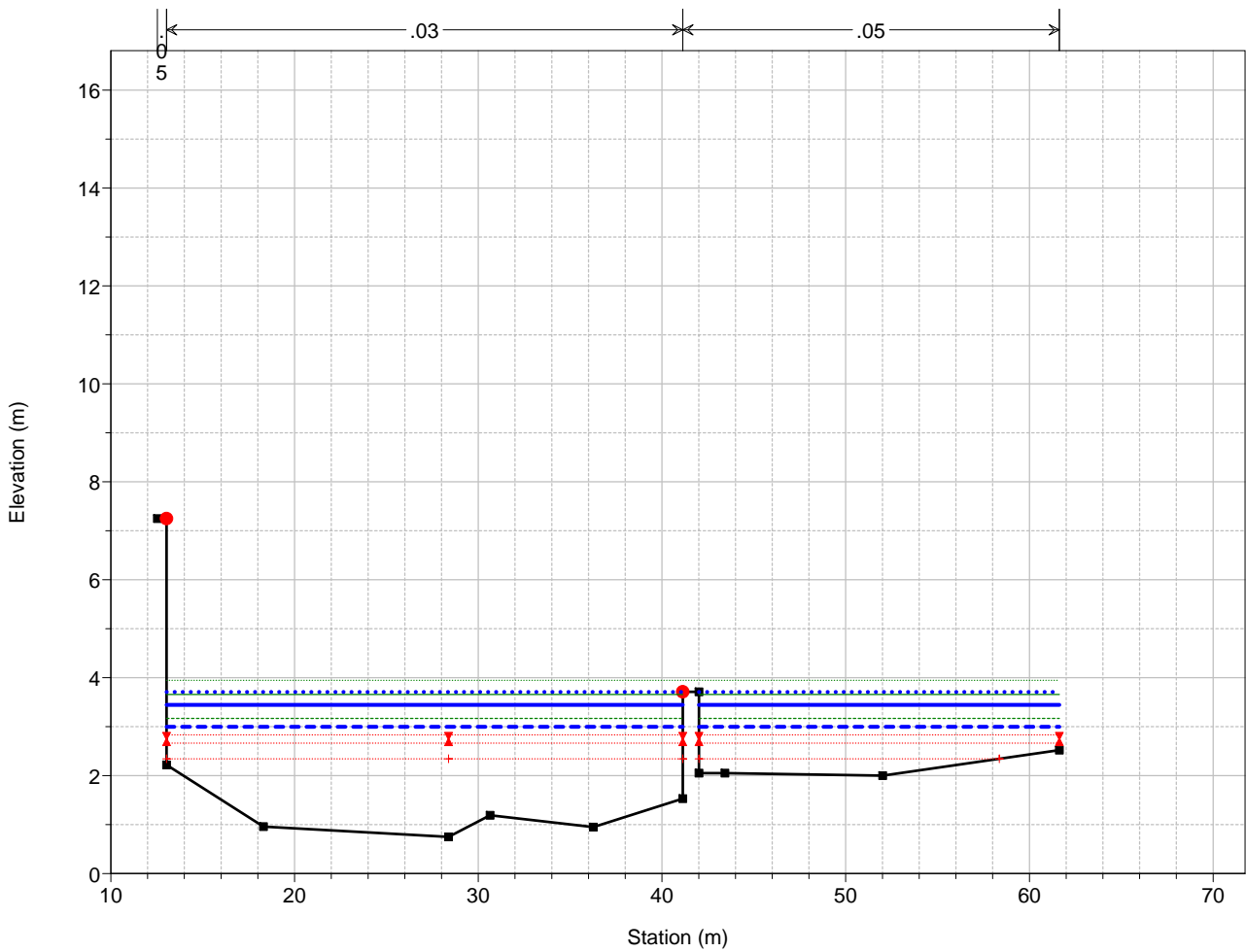
Bisagno - Fasce DL180
 BM02 valle



Legend	
EG Q500	—
EG Q200	—
EG Q050	—
Crit Q500	▼
Crit Q200	▲
PL Q500	—
Crit Q050	+
PL Q200	—
PL Q050	—
Fondo	■
Sponda	●

Bisagno - Fasce DL180

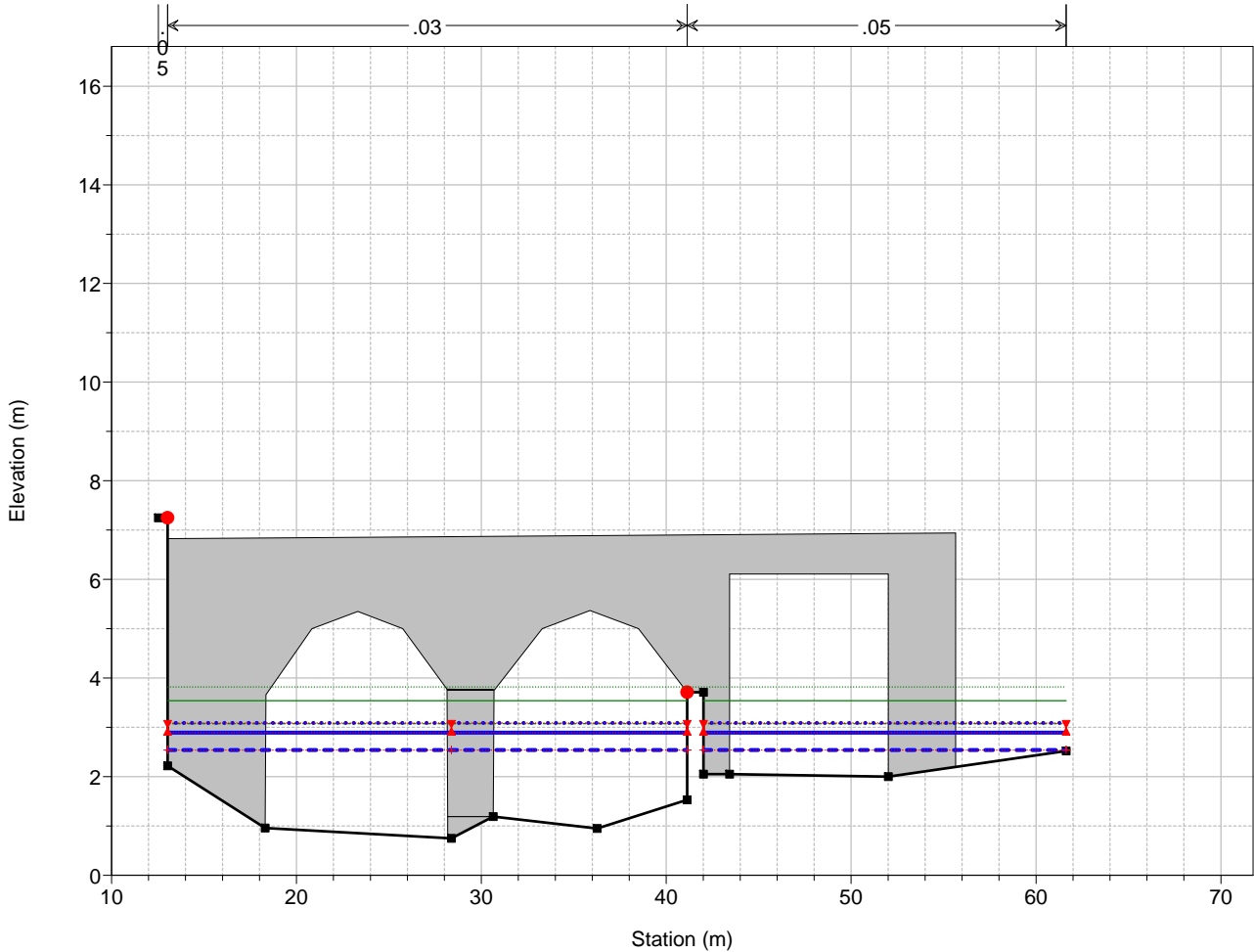
BM01



Legend	
EG Q500	(Dotted Green Line)
PL Q500	(Dotted Blue Line)
EG Q200	(Solid Green Line)
PL Q200	(Solid Blue Line)
EG Q050	(Dotted Green Line)
PL Q050	(Dotted Blue Line)
Crit Q500	(Red Triangle Down)
Crit Q200	(Red Triangle Up)
Crit Q050	(Red Triangle Up)
Fondo	(Black Line with Square Markers)
Sponda	(Red Circle)

Bisagno - Fasce DL180

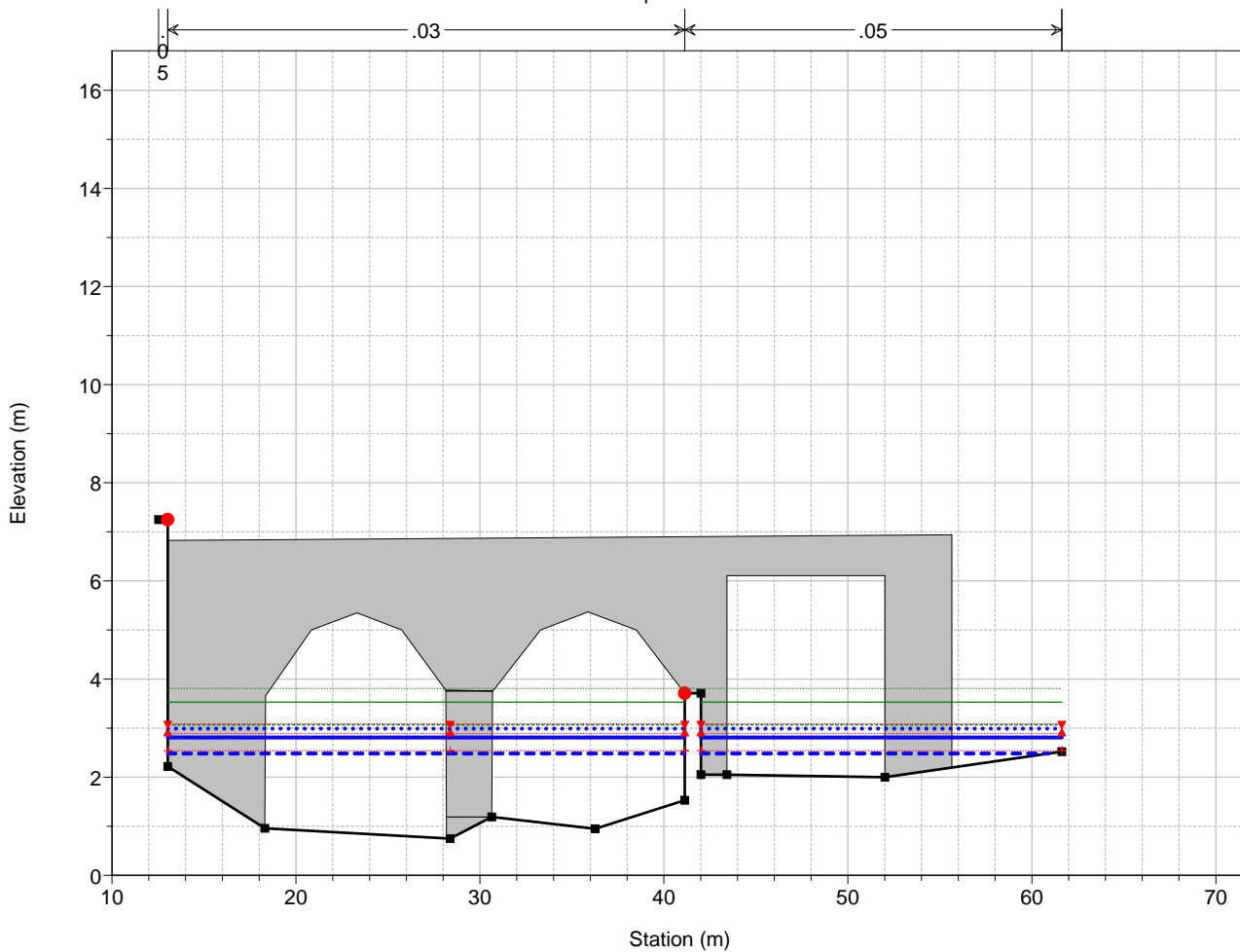
ponete BM01



Legend	
EG Q500	(Dotted Green Line)
EG Q200	(Solid Green Line)
PL Q500	(Dotted Blue Line)
Crit Q500	(Red Triangle Down)
EG Q050	(Dotted Green Line)
Crit Q200	(Red Triangle Up)
PL Q200	(Solid Blue Line)
PL Q050	(Dotted Blue Line)
Crit Q050	(Red Triangle Up)
Fondo	(Black Line with Square Markers)
Sponda	(Red Circle)

Bisagno - Fasce DL180

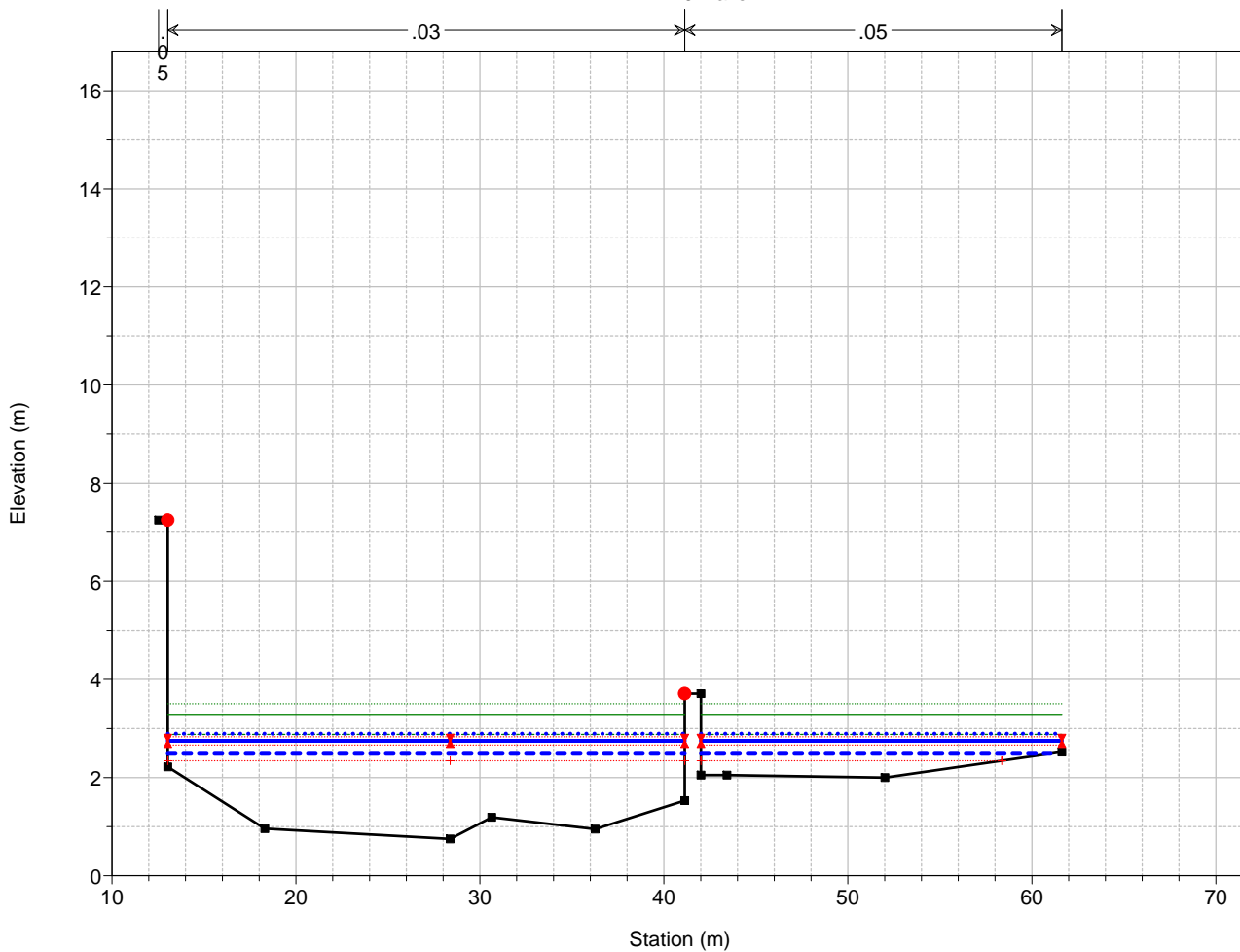
ponete BM01



Legend	
EG Q500	— (green dashed line)
EG Q200	— (green solid line)
Crit Q500	— (red dashed line with inverted triangle)
EG Q050	— (green dotted line)
PL Q500	— (blue dotted line)
Crit Q200	— (red solid line with triangle)
PL Q200	— (blue solid line)
Crit Q050	— (red dashed line with cross)
PL Q050	— (blue dashed line)
Fondo	— (black solid line with square)
Sponda	● (red circle)

Bisagno - Fasce DL180

BM01valle

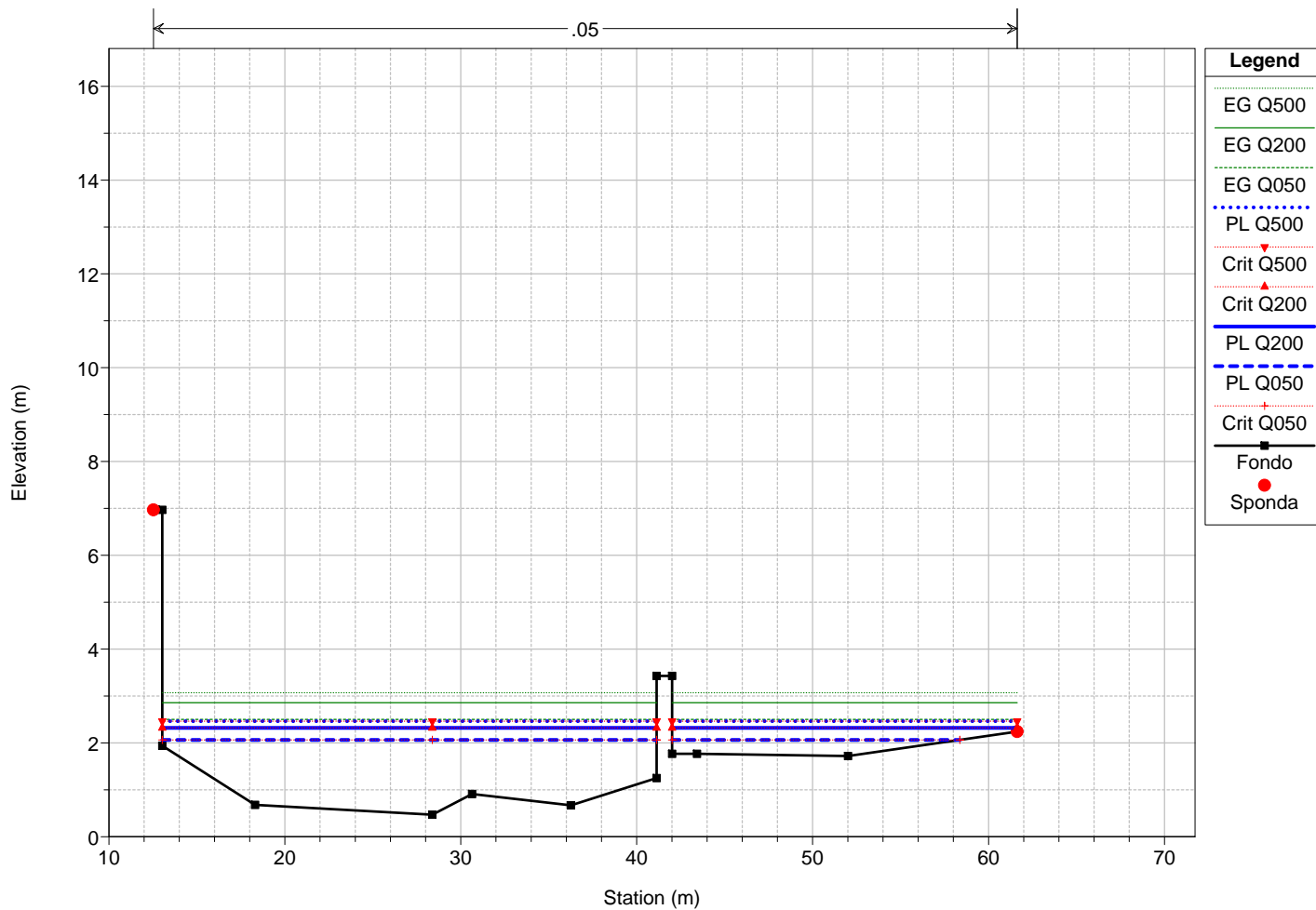


Legend	
EG Q500	— (green dashed line)
EG Q200	— (green solid line)
PL Q500	— (blue dotted line)
EG Q050	— (green dotted line)
Crit Q500	— (red dashed line with inverted triangle)
PL Q200	— (blue solid line)
Crit Q200	— (red solid line with triangle)
PL Q050	— (blue dashed line)
Crit Q050	— (red dashed line with cross)
Fondo	— (black solid line with square)
Sponda	● (red circle)

Bisagno - Fasce DL180

BM00 - foce

.05



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
unico	12	Q050	64.00	41.87	44.12	48.50	4.38	48.72	4.60	44.93	46.76	0.040002	7.20	8.89	5.14	1.75
unico	12	Q200	92.00	41.87	44.64	48.50	3.86	48.72	4.08	45.62	47.82	0.040039	7.90	11.64	5.40	1.72
unico	12	Q500	111.00	41.87	44.96	48.50	3.54	48.72	3.76	46.05	48.45	0.040045	8.27	13.41	5.56	1.70
unico	11.9999		Bridge													
unico	11.9998	Q050	64.00	41.87	44.19	48.50	4.31	48.72	4.53	44.93	46.61	0.035536	6.89	9.29	5.18	1.64
unico	11.9998	Q200	92.00	41.87	44.72	48.50	3.78	48.72	4.00	45.62	47.67	0.036260	7.61	12.08	5.44	1.63
unico	11.9998	Q500	111.00	41.87	45.05	48.50	3.45	48.72	3.67	46.05	48.30	0.036551	7.99	13.89	5.60	1.62
unico	11	Q050	81.00	31.78	33.67	38.92	5.25	38.77	5.10	34.43	35.88	0.029020	6.58	12.30	7.55	1.65
unico	11	Q200	118.00	31.78	34.27	38.92	4.65	38.77	4.50	35.03	36.72	0.029000	6.94	17.00	9.33	1.64
unico	11	Q500	142.00	31.78	36.45	38.92	2.47	38.77	2.32	35.37	37.07	0.003670	3.48	40.85	12.45	0.61
unico	10.9999		Bridge													
unico	10.9998	Q050	81.00	31.78	34.01	38.92	4.91	38.77	4.76	34.43	35.52	0.016965	5.46	14.85	7.69	1.25
unico	10.9998	Q200	118.00	31.78	34.53	38.92	4.39	38.77	4.24	35.03	36.39	0.019496	6.04	19.55	9.72	1.36
unico	10.9998	Q500	142.00	31.78	34.77	38.92	4.15	38.77	4.00	35.37	36.91	0.020576	6.49	21.88	10.05	1.40
unico	10	Q050	85.00	19.15	20.94	28.11	7.17	29.25	8.31	21.92	24.45	0.058271	8.30	10.24	8.81	2.46
unico	10	Q200	123.00	19.15	21.26	28.11	6.85	29.25	7.99	22.50	25.71	0.058694	9.34	13.17	9.29	2.50
unico	10	Q500	148.00	19.15	21.46	28.11	6.65	29.25	7.79	22.84	26.42	0.058467	9.87	15.00	9.58	2.52
unico	9	Q050	86.00	12.11	14.14	21.08	6.94	21.19	7.05	14.88	16.45	0.030586	6.72	12.79	8.12	1.71
unico	9	Q200	125.00	12.11	14.62	21.08	6.46	21.19	6.57	15.52	17.42	0.030360	7.42	16.85	9.06	1.74
unico	9	Q500	150.00	12.11	14.87	21.08	6.21	21.19	6.32	15.84	17.98	0.030607	7.81	19.20	9.56	1.76
unico	8.9999		Bridge													
unico	8.9998	Q050	86.00	12.11	14.35	21.08	6.73	21.19	6.84	14.88	16.14	0.021626	5.93	14.51	8.53	1.45
unico	8.9998	Q200	125.00	12.11	14.80	21.08	6.28	21.19	6.39	15.52	17.11	0.023347	6.74	18.55	9.42	1.53
unico	8.9998	Q500	150.00	12.11	15.05	21.08	6.03	21.19	6.14	15.84	17.66	0.025934	7.16	20.96	10.64	1.63
unico	8	Q050	109.00	8.93	11.26	10.72	-0.54	12.16	0.90	11.26	12.08	0.007530	4.09	29.03	18.56	0.94
unico	8	Q200	157.00	8.93	11.66	10.72	-0.94	12.16	0.50	11.74	12.75	0.008350	4.76	36.60	19.13	1.01
unico	8	Q500	189.00	8.93	11.79	10.72	-1.07	12.16	0.37	12.02	13.18	0.010080	5.38	39.11	19.31	1.12
unico	7	Q050	109.90	5.96	9.37	10.72	1.35	12.16	2.79	10.14	11.85	0.048602	6.97	15.77	10.62	1.83
unico	7	Q200	158.40	5.96	9.96	10.72	0.76	12.16	2.20	10.84	12.54	0.036053	7.12	22.26	11.45	1.63
unico	7	Q500	190.80	5.96	10.31	10.72	0.41	12.16	1.85	11.23	12.98	0.031827	7.24	26.36	11.95	1.56
unico	6	Q050	109.90	4.84	9.28	10.59	1.31	10.04	0.76	7.46	9.68	0.001321	2.81	39.16	9.28	0.44
unico	6	Q200	158.50	4.84	10.35	10.59	0.24	10.04	-0.31	8.14	10.88	0.001456	3.21	51.30	16.13	0.45
unico	6	Q500	190.80	4.84	10.78	10.59	-0.19	10.04	-0.74	8.56	11.40	0.001609	3.52	59.01	20.10	0.47
unico	5.9999		Bridge													
unico	5	Q050	109.90	3.96	6.63	9.10	2.47	9.10	2.47	6.79	8.12	0.006267	5.42	20.27	8.13	1.10
unico	5	Q200	160.10	3.96	7.54	9.10	1.56	9.10	1.56	7.54	9.24	0.005240	5.78	27.68	8.13	1.00
unico	5	Q500	192.90	3.96	7.99	9.10	1.11	9.10	1.11	7.99	9.92	0.005279	6.15	31.36	8.13	1.00

HEC-RAS Plan: Fasce DL180 River: Bisagno M. Reach: unico (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
unico	4	Q050	112.00	3.00	5.82	7.07	1.25	7.27	1.45	5.32	6.39	0.004494	3.35	33.47	14.25	0.70
unico	4	Q200	161.70	3.00	6.83	7.07	0.24	7.27	0.44	5.83	7.41	0.003269	3.38	47.87	14.40	0.59
unico	4	Q500	194.90	3.00	7.23	7.07	-0.16	7.27	0.04	6.15	7.90	0.003387	3.63	54.00	20.39	0.60
unico	3.9999	Bridge														
unico	3.9998	Q050	112.00	3.00	5.04	7.07	2.03	7.27	2.23	5.32	6.32	0.015461	5.03	22.28	14.14	1.28
unico	3.9998	Q200	161.70	3.00	6.65	7.07	0.42	7.27	0.62	5.83	7.30	0.003835	3.57	45.30	14.37	0.64
unico	3.9998	Q500	194.90	3.00	6.92	7.07	0.15	7.27	0.35	6.15	7.72	0.004399	3.97	49.15	14.41	0.69
unico	3	Q050	113.10	1.66	5.01	5.28	0.27	5.30	0.29	4.27	5.57	0.003666	3.29	34.35	12.45	0.63
unico	3	Q200	163.50	1.66	6.60	5.28	-1.32	5.30	-1.30	4.85	6.99	0.001571	2.86	65.10	20.97	0.44
unico	3	Q500	197.10	1.66	6.87	5.28	-1.59	5.30	-1.57	5.21	7.36	0.001819	3.20	70.84	20.97	0.48
unico	2.9999	Bridge														
unico	2.9998	Q050	113.10	1.66	3.86	5.28	1.42	5.30	1.44	4.27	5.46	0.017530	5.60	20.20	12.14	1.39
unico	2.9998	Q200	163.50	1.66	4.04	5.28	1.24	5.30	1.25	4.85	6.76	0.026867	7.30	22.40	12.19	1.72
unico	2.9998	Q500	197.10	1.66	4.42	5.28	0.86	5.30	0.88	5.21	7.14	0.022509	7.31	26.97	12.29	1.57
unico	2	Q050	114.00	0.75	3.00	7.25	4.25	3.71	0.71	2.34	3.17	0.001621	1.93	69.69	47.72	0.45
unico	2	Q200	165.00	0.75	3.44	7.25	3.81	3.71	0.27	2.66	3.66	0.001600	2.17	91.05	47.72	0.45
unico	2	Q500	199.00	0.75	3.71	7.25	3.54	3.71	0.00	2.83	3.95	0.001605	2.31	103.66	47.72	0.46
unico	1.9999	Bridge														
unico	1.9998	Q050	114.00	0.75	2.49	7.25	4.76	3.71	1.22	2.34	2.88	0.005034	2.83	45.41	47.11	0.77
unico	1.9998	Q200	165.00	0.75	2.75	7.25	4.50	3.71	0.96	2.67	3.27	0.005629	3.32	57.88	47.72	0.83
unico	1.9998	Q500	199.00	0.75	2.90	7.25	4.35	3.71	0.81	2.83	3.50	0.006008	3.61	64.89	47.72	0.86
unico	1	Q050	114.00	0.47	2.06	6.97	4.91	2.24	0.18	2.06	2.50	0.026905	2.93	38.85	44.46	1.00
unico	1	Q200	165.00	0.47	2.32	6.97	4.65	2.24	-0.08	2.32	2.86	0.025854	3.25	50.80	47.72	1.00
unico	1	Q500	199.00	0.47	2.46	6.97	4.51	2.24	-0.22	2.46	3.07	0.024972	3.45	57.70	47.72	1.00