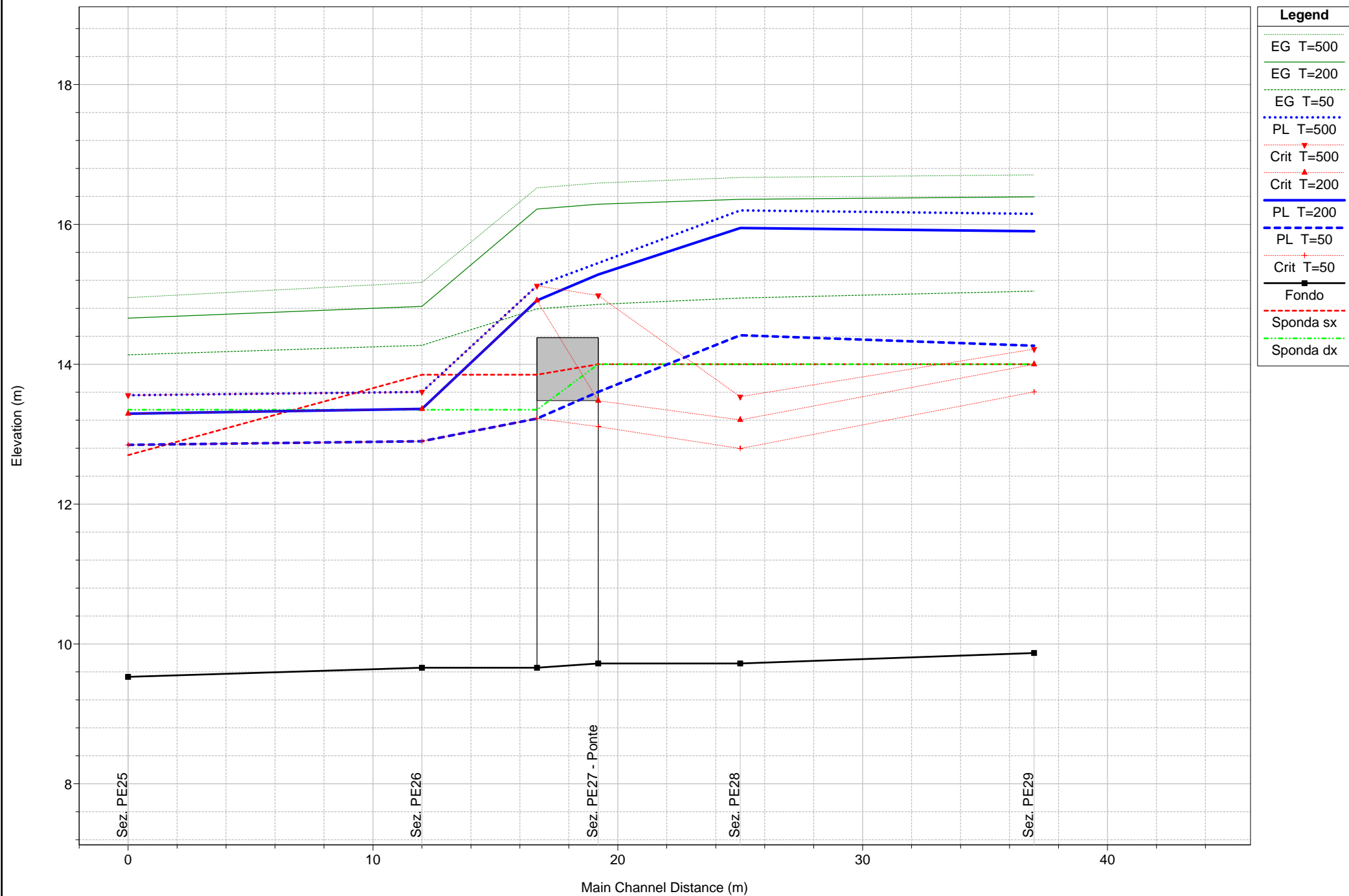
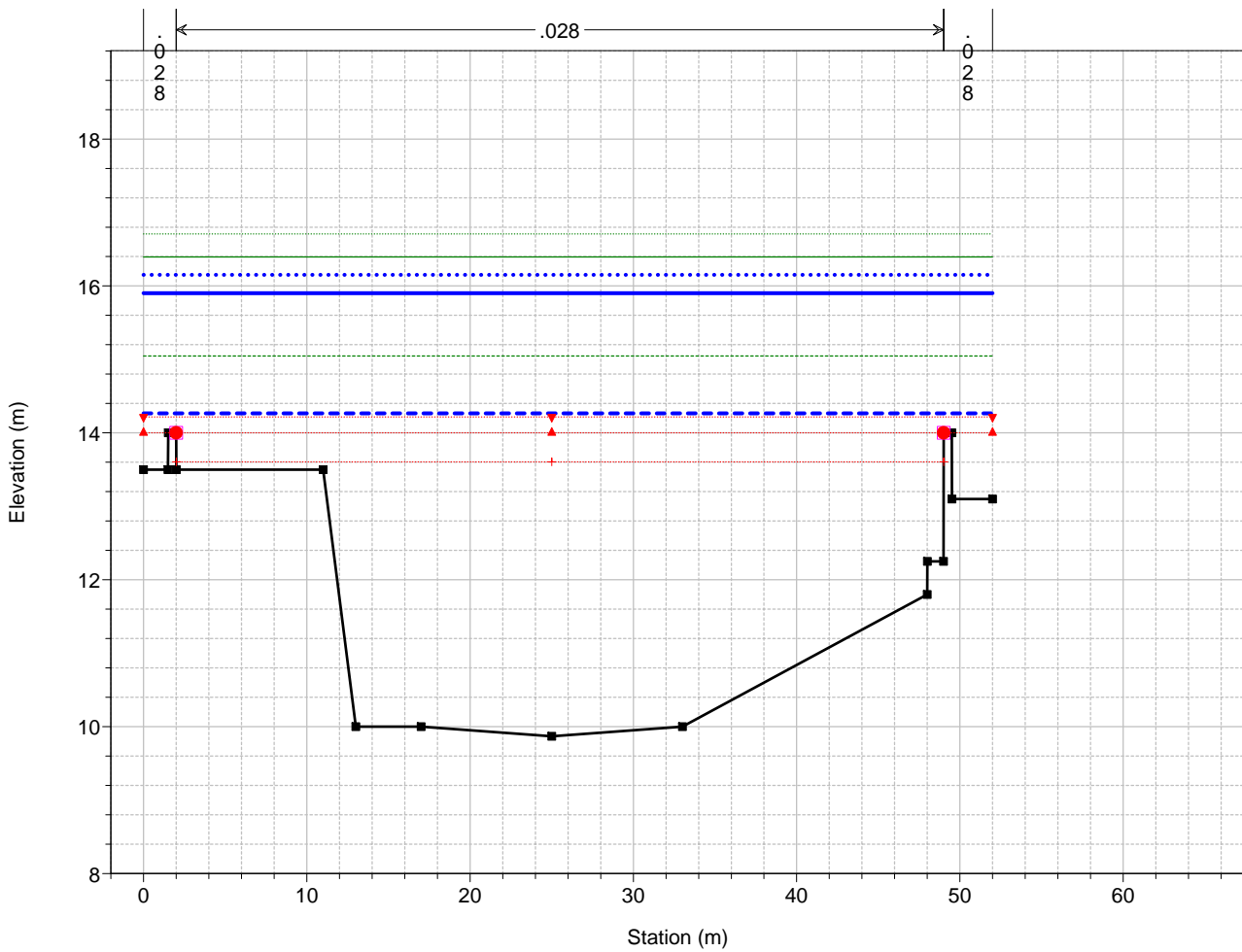


T. Petronio - Loc. Sara



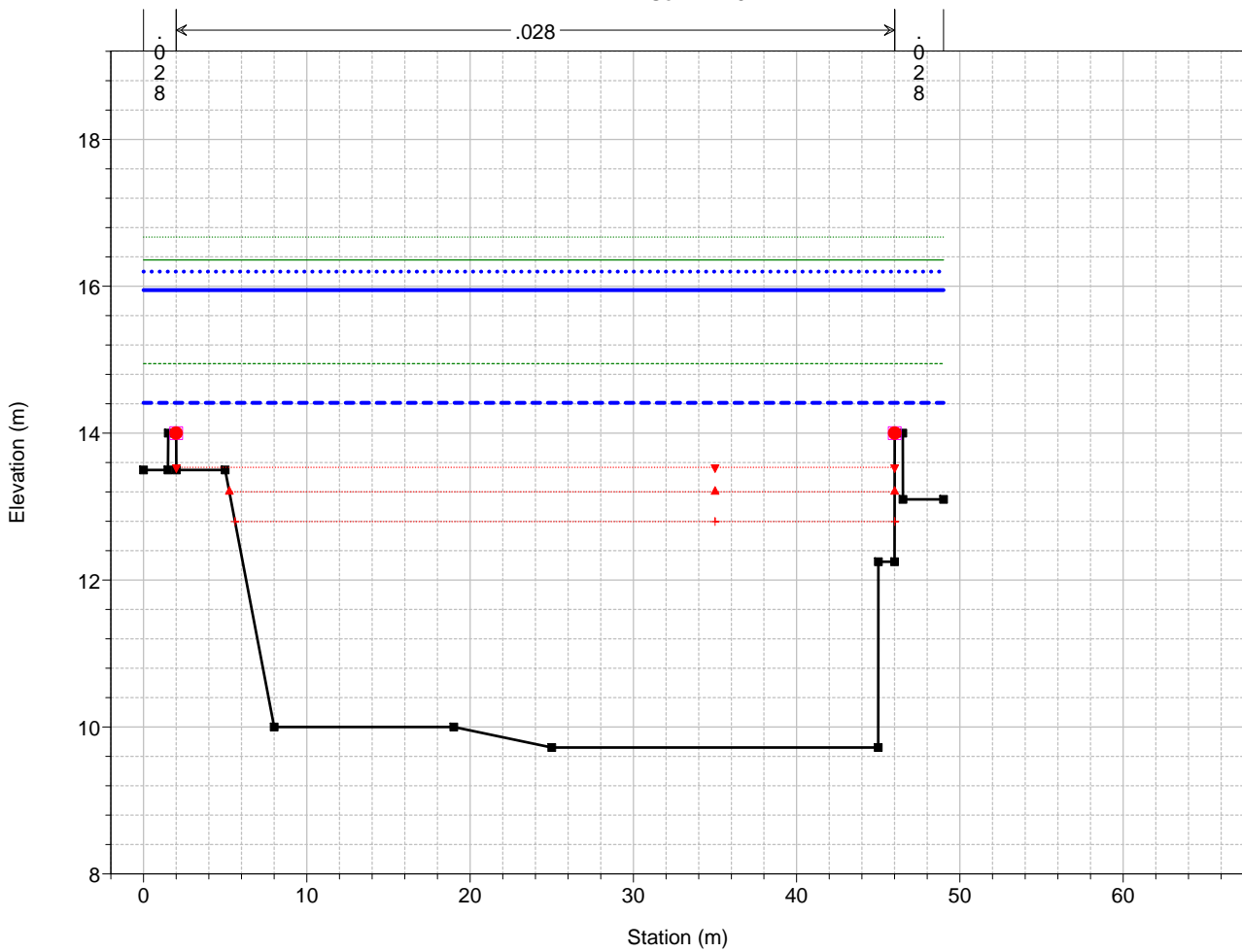
1 cm Horiz. = 2 m 1 cm Vert. = 0.7 m

T. Petronio - Loc. Sara
Sez. PE29



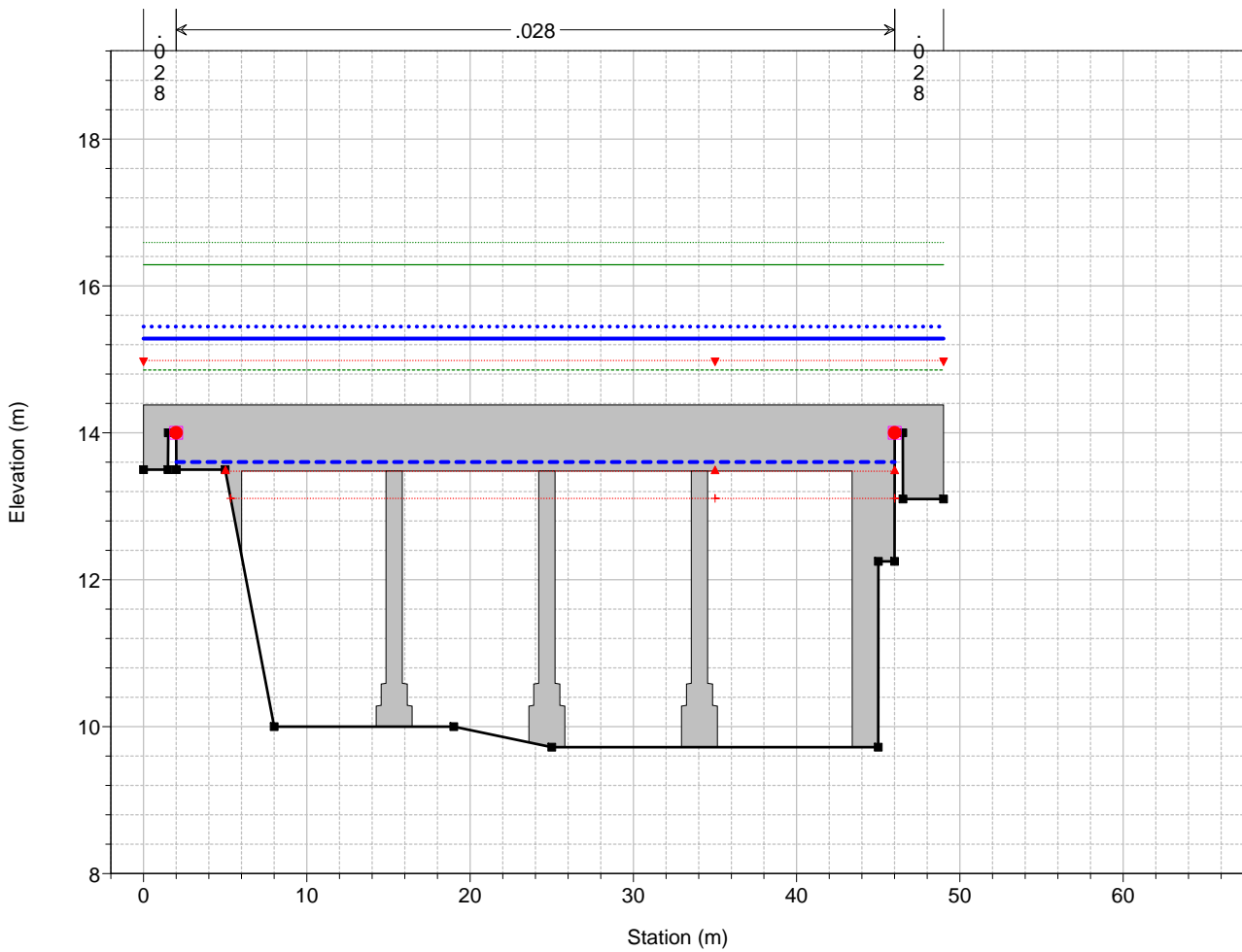
Legend	
EG T=500	(Green dotted line)
EG T=200	(Green solid line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black solid line)
Argine	(Red circle)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

T. Petronio - Loc. Sara
Sez. PE28

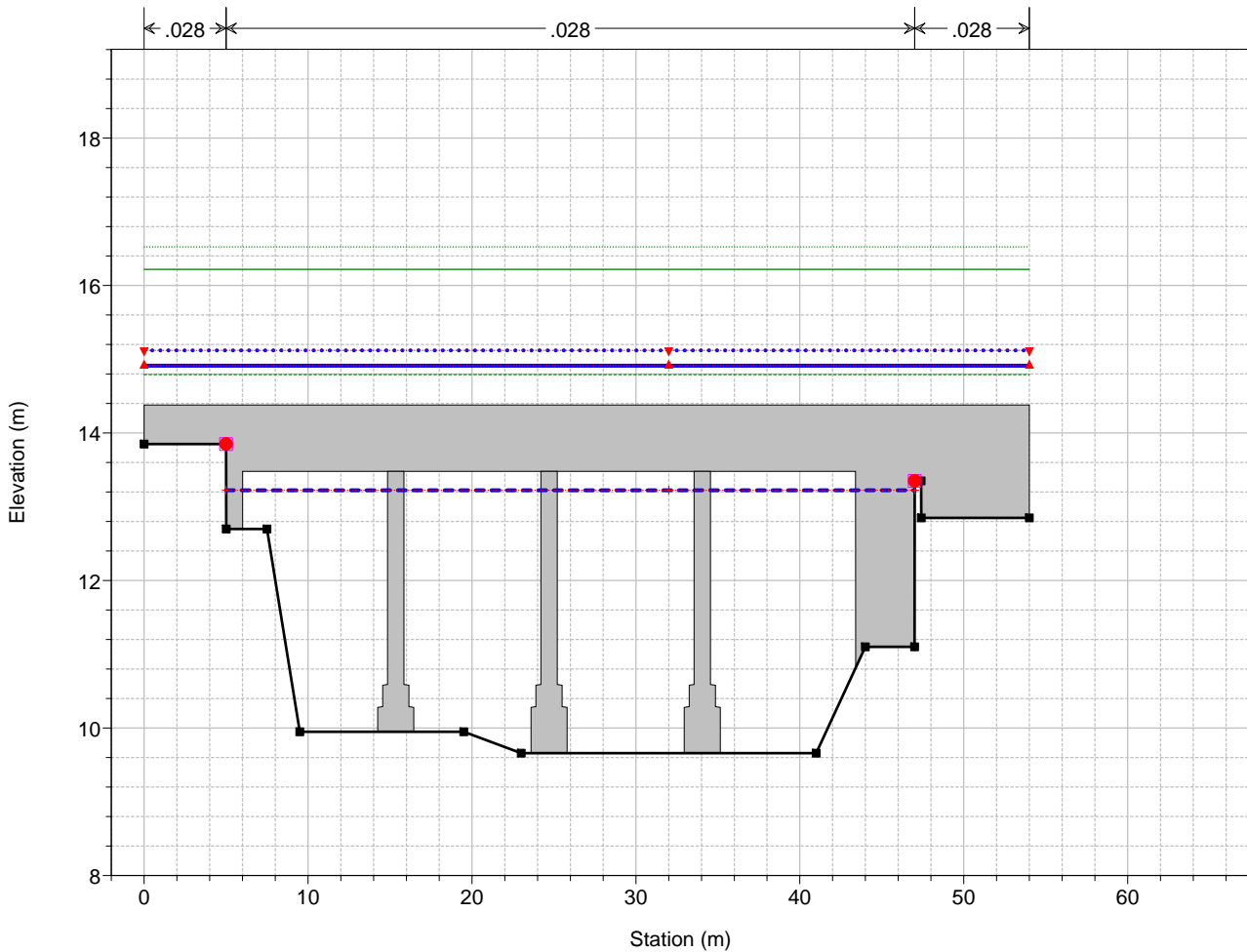


Legend	
EG T=500	(Green dotted line)
EG T=200	(Green solid line)
PL T=500	(Blue dotted line)
PL T=200	(Blue solid line)
EG T=50	(Green dashed line)
PL T=50	(Blue dashed line)
Crit T=500	(Red inverted triangle)
Crit T=200	(Red triangle)
Crit T=50	(Red plus sign)
Fondo	(Black solid line)
Argine	(Red circle)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

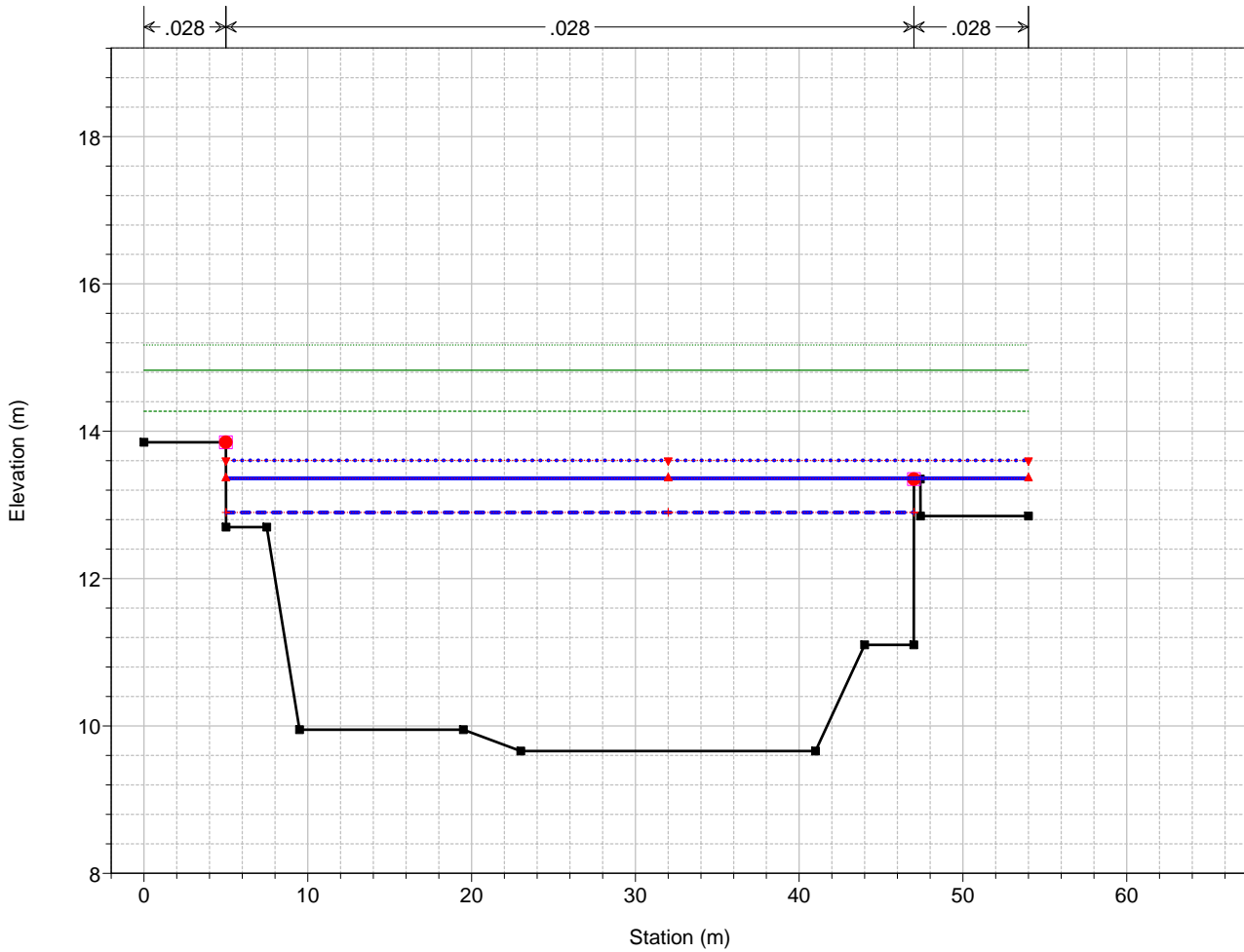
T. Petronio - Loc. Sara
Sez. PE27 - Ponte



T. Petronio - Loc. Sara
Sez. PE27 - Ponte

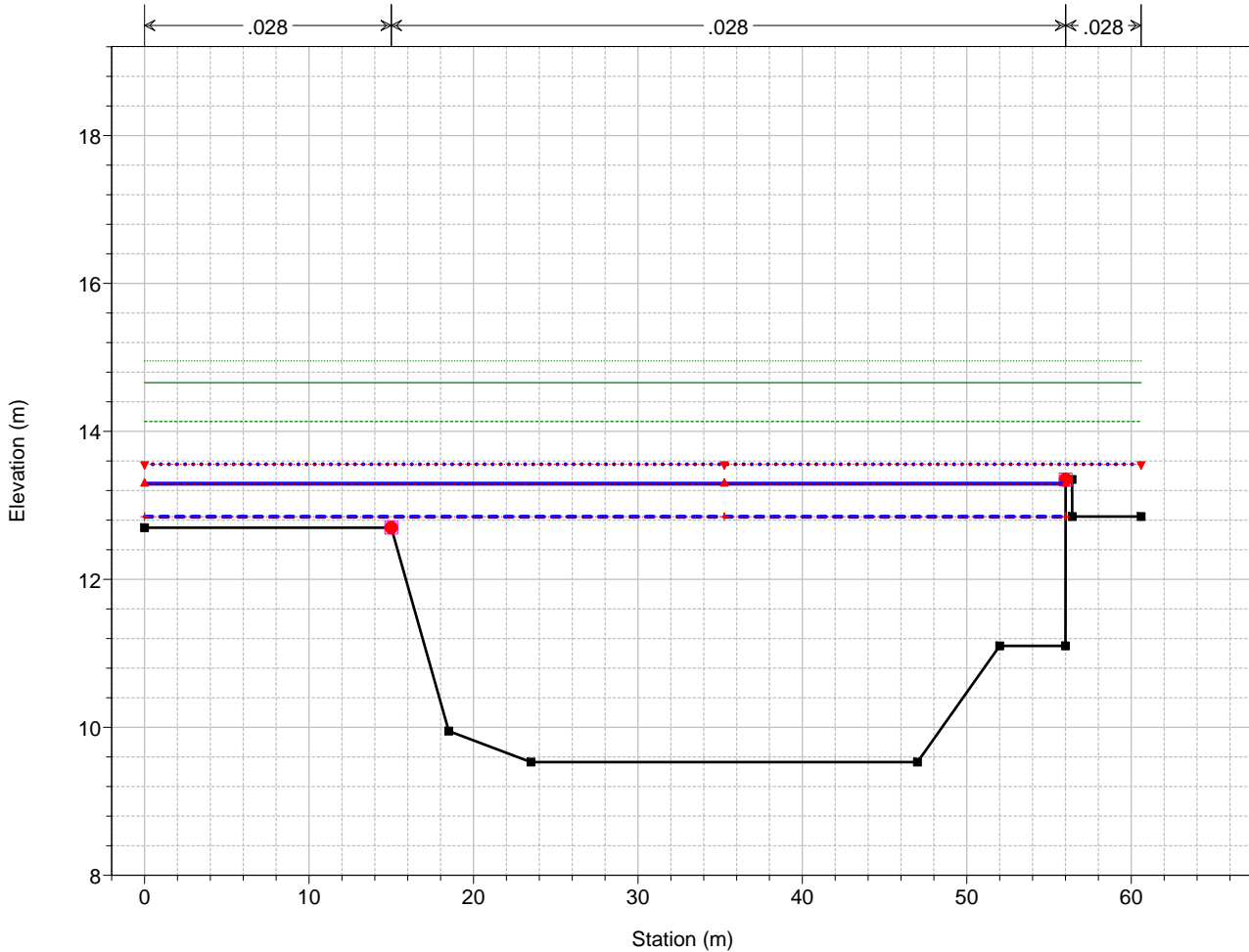


T. Petronio - Loc. Sara
Sez. PE26



Legend	
EG T=500	(dotted green line)
EG T=200	(solid green line)
EG T=50	(dotted green line)
PL T=500	(dotted blue line)
Crit T=500	(dotted red line with inverted triangle)
Crit T=200	(solid red line with triangle)
PL T=200	(solid blue line)
PL T=50	(dashed blue line)
Crit T=50	(dotted black line with cross)
Fondo	(solid black line with square)
Argine	(solid pink line with square)
Sponda	(solid black line with red circle)

T. Petronio - Loc. Sara
Sez. PE25



Legend	
EG T=500	(dotted green line)
EG T=200	(solid green line)
EG T=50	(dotted green line)
PL T=500	(dotted blue line)
Crit T=500	(dotted red line with inverted triangle)
Crit T=200	(solid red line with triangle)
PL T=200	(solid blue line)
PL T=50	(dashed blue line)
Crit T=50	(dotted black line with cross)
Fondo	(solid black line with square)
Argine	(solid pink line with square)
Sponda	(solid black line with red circle)

HEC-RAS Plan: Pp4 River: T. Petronio Reach: Tratto 4

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 4	29	T=50	598.00	9.87	14.27	14.00	-0.27	14.00	-0.27	13.60	15.05	0.002914	3.93	155.10	52.00	0.70
Tratto 4	29	T=200	730.00	9.87	15.90	14.00	-1.90	14.00	-1.90	14.00	16.39	0.001073	3.14	240.19	52.00	0.46
Tratto 4	29	T=500	817.00	9.87	16.15	14.00	-2.15	14.00	-2.15	14.22	16.71	0.001134	3.34	253.17	52.00	0.47
Tratto 4	28	T=50	598.00	9.72	14.41	14.00	-0.41	14.00	-0.41	12.80	14.95	0.001483	3.25	187.76	49.00	0.51
Tratto 4	28	T=200	730.00	9.72	15.95	14.00	-1.95	14.00	-1.95	13.20	16.36	0.000759	2.86	262.90	49.00	0.38
Tratto 4	28	T=500	817.00	9.72	16.20	14.00	-2.20	14.00	-2.20	13.54	16.67	0.000821	3.07	275.23	49.00	0.40
Tratto 4	27	Bridge														
Tratto 4	26	T=50	598.00	9.66	12.90	13.85	0.95	13.35	0.45	12.90	14.27	0.006163	5.19	115.20	42.00	1.00
Tratto 4	26	T=200	730.00	9.66	13.36	13.85	0.49	13.35	-0.01	13.36	14.83	0.005531	5.38	138.01	49.00	0.96
Tratto 4	26	T=500	817.00	9.66	13.60	13.85	0.25	13.35	-0.25	13.60	15.17	0.005412	5.57	149.93	49.00	0.96
Tratto 4	25	T=50	598.00	9.53	12.85	12.70	-0.15	13.35	0.50	12.85	14.13	0.005298	5.03	120.67	56.01	0.95
Tratto 4	25	T=200	730.00	9.53	13.29	12.70	-0.59	13.35	0.06	13.29	14.66	0.004777	5.23	145.69	56.01	0.91
Tratto 4	25	T=500	817.00	9.53	13.56	12.70	-0.86	13.35	-0.21	13.56	14.95	0.004484	5.32	163.50	60.60	0.90

Plan: Pp4 T. Petronio Tratto 4 RS: 27 Profile: T=50

E.G. US. (m)	14.95	Element	Inside BR US	Inside BR DS
W.S. US. (m)	14.41	E.G. Elev (m)	14.86	14.79
Q Total (m3/s)	598.00	W.S. Elev (m)	13.60	13.22
Q Bridge (m3/s)	598.00	Crit W.S. (m)	13.11	13.22
Q Weir (m3/s)		Max Chl Dpth (m)	3.88	3.56
Weir Sta Lft (m)		Vel Total (m/s)	4.96	5.55
Weir Sta Rgt (m)		Flow Area (m2)	120.63	107.74
Weir Submerg		Froude # Chl	0.80	0.94
Weir Max Depth (m)		Specif Force (m3)	531.27	516.07
Min El Weir Flow (m)	14.38	Hydr Depth (m)		3.13
Min El Prs (m)	13.48	W.P. Total (m)	96.60	59.68
Delta EG (m)	0.68	Conv. Total (m3/s)	4995.8	5704.5
Delta WS (m)	1.52	Top Width (m)		34.39
BR Open Area (m2)	116.58	Frctn Loss (m)	0.03	0.04
BR Open Vel (m/s)	5.55	C & E Loss (m)	0.03	0.06
Coef of Q		Shear Total (N/m2)	175.46	194.54
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pp4 T. Petronio Tratto 4 RS: 27 Profile: T=200

E.G. US. (m)	16.36	Element	Inside BR US	Inside BR DS
W.S. US. (m)	15.95	E.G. Elev (m)	16.29	16.22
Q Total (m3/s)	730.00	W.S. Elev (m)	15.28	14.91
Q Bridge (m3/s)	565.87	Crit W.S. (m)	13.48	14.91
Q Weir (m3/s)		Max Chl Dpth (m)	5.56	5.25
Weir Sta Lft (m)		Vel Total (m/s)	4.43	5.02
Weir Sta Rgt (m)		Flow Area (m2)	164.88	145.34
Weir Submerg		Froude # Chl	0.60	0.71
Weir Max Depth (m)		Specif Force (m3)	781.93	757.31
Min El Weir Flow (m)	14.38	Hydr Depth (m)	3.36	2.69
Min El Prs (m)	13.48	W.P. Total (m)	147.40	151.19
Delta EG (m)	1.53	Conv. Total (m3/s)	6375.4	5123.6
Delta WS (m)	2.59	Top Width (m)	49.00	54.00
BR Open Area (m2)	116.58	Frctn Loss (m)	0.04	0.04
BR Open Vel (m/s)	4.85	C & E Loss (m)	0.03	0.02
Coef of Q		Shear Total (N/m2)	143.82	191.36
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00

Plan: Pp4 T. Petronio Tratto 4 RS: 27 Profile: T=500

E.G. US. (m)	16.67	Element	Inside BR US	Inside BR DS
W.S. US. (m)	16.20	E.G. Elev (m)	16.59	16.52
Q Total (m3/s)	817.00	W.S. Elev (m)	15.45	15.12
Q Bridge (m3/s)	591.24	Crit W.S. (m)	14.98	15.12
Q Weir (m3/s)		Max Chl Dpth (m)	5.73	5.46
Weir Sta Lft (m)		Vel Total (m/s)	4.73	5.22
Weir Sta Rgt (m)		Flow Area (m2)	172.90	156.63
Weir Submerg		Froude # Chl	0.63	0.72
Weir Max Depth (m)		Specif Force (m3)	873.64	848.95
Min El Weir Flow (m)	14.38	Hydr Depth (m)	3.53	2.90
Min El Prs (m)	13.48	W.P. Total (m)	147.73	151.61
Delta EG (m)	1.50	Conv. Total (m3/s)	6884.6	5758.7
Delta WS (m)	2.60	Top Width (m)	49.00	54.00
BR Open Area (m2)	116.58	Frctn Loss (m)	0.04	0.04
BR Open Vel (m/s)	5.07	C & E Loss (m)	0.03	0.02
Coef of Q		Shear Total (N/m2)	161.63	203.91
Br Sel Method	Energy only	Power Total (N/m s)	0.00	0.00