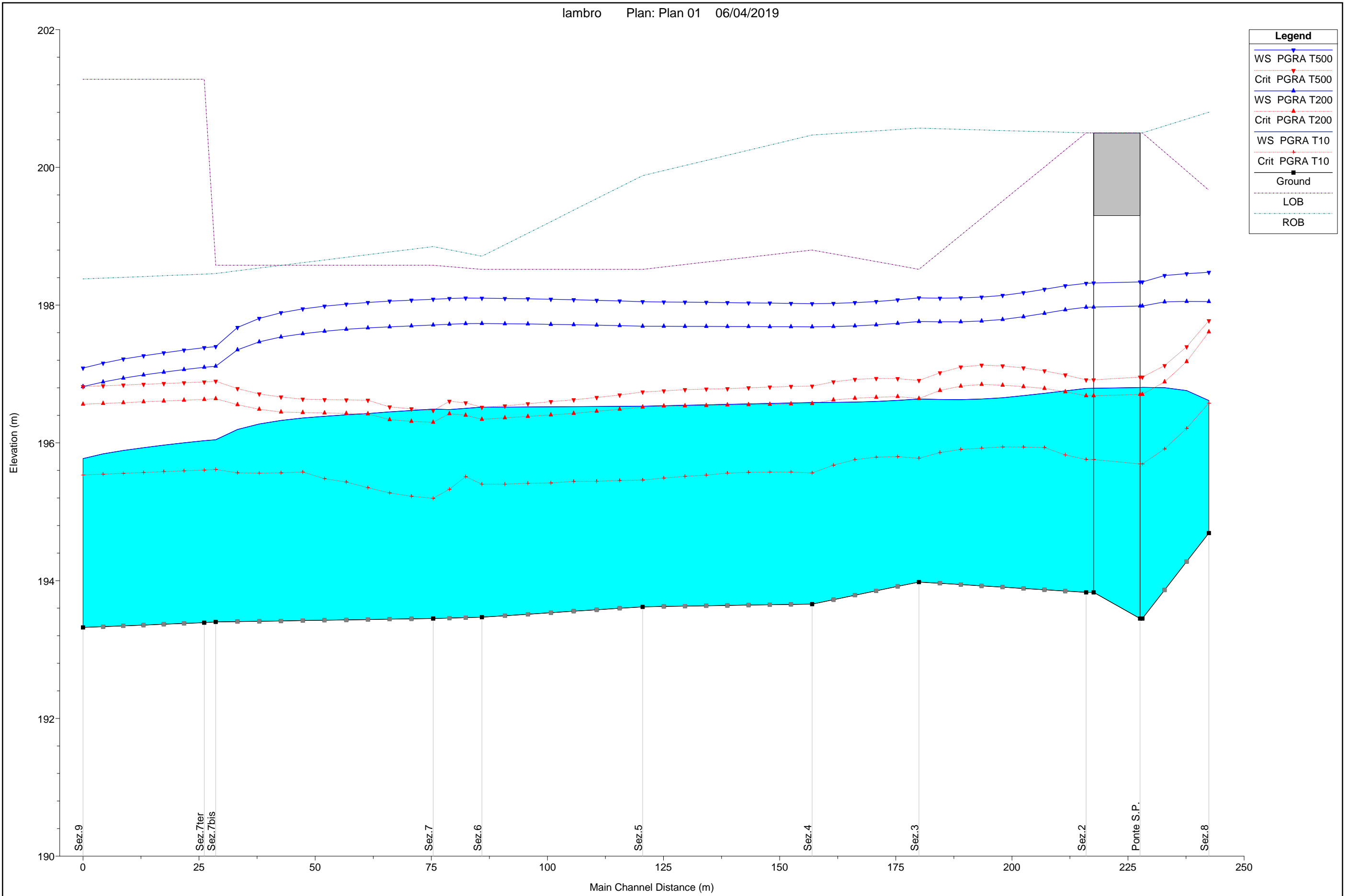


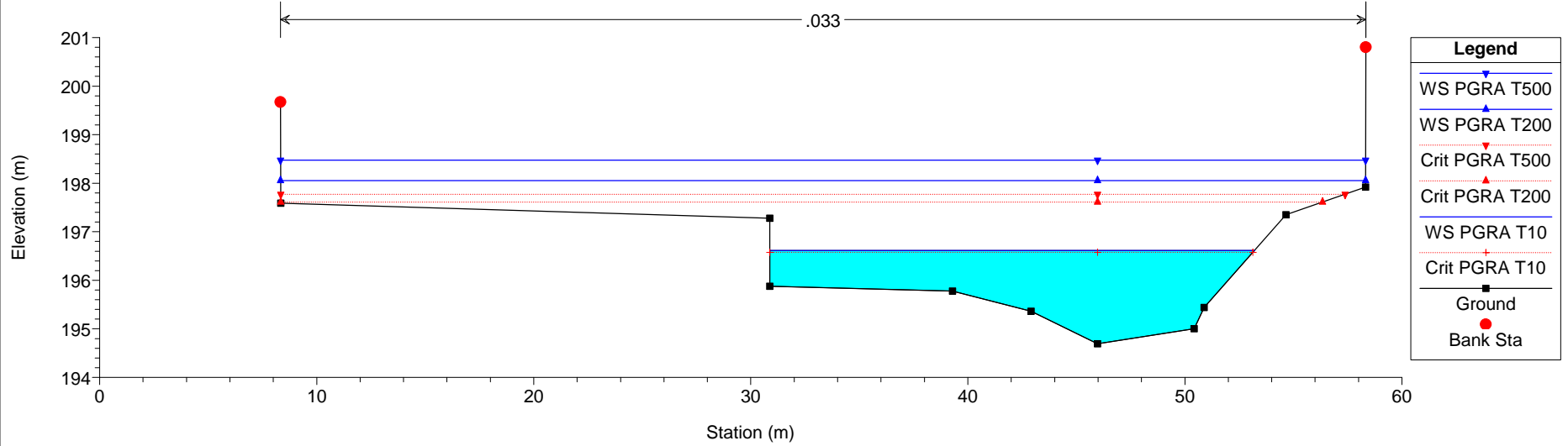
**ALLEGATO 3**  
**RISULTATI DI CALCOLO IDRAULICO**

**3A - PROFILO LONGITUDINALE FIUME LAMBRO CON  
PORTATE PGRA T10, T200 E T500 ANNI**

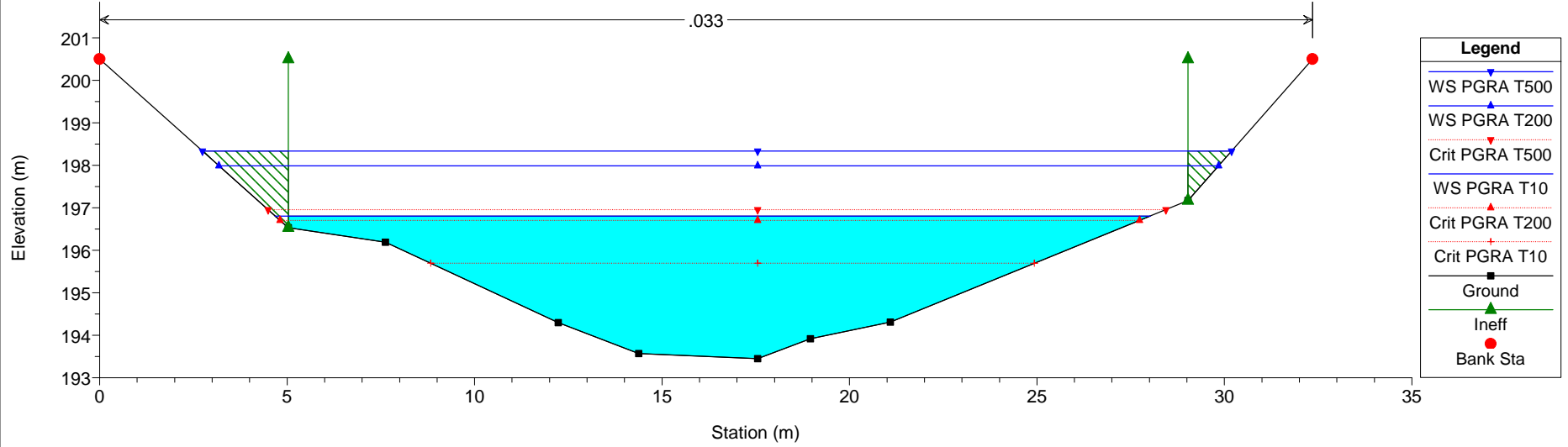


**3B - SEZIONI TRASVERSALI FIUME LAMBRO CON PORTATE  
PGRA T10, T200 E T500 ANNI**

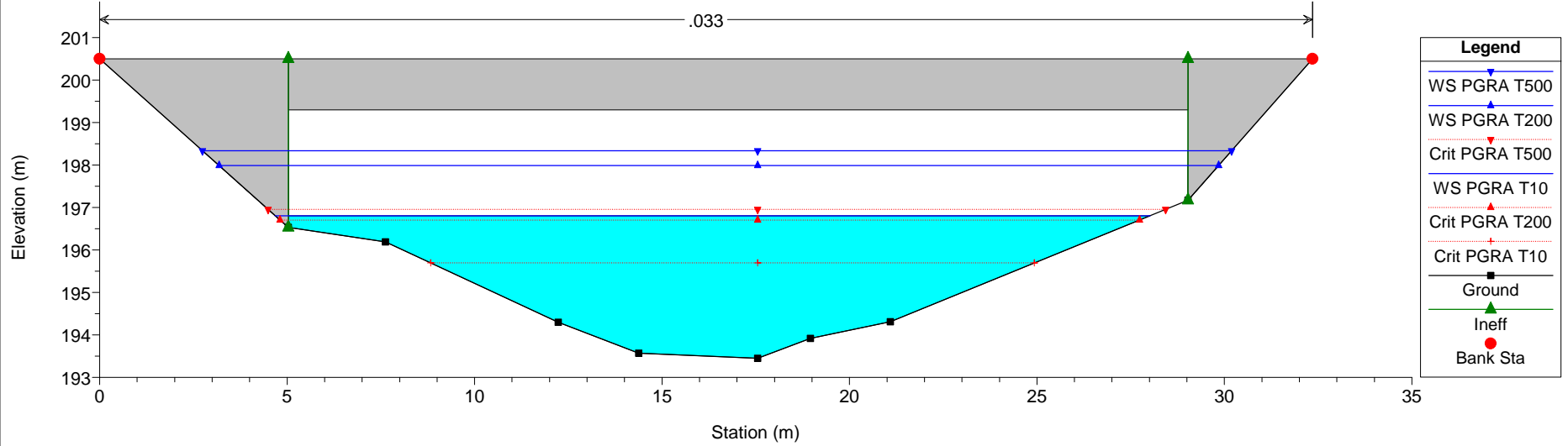
lambro Plan: Plan 01 06/04/2019  
Sez.8



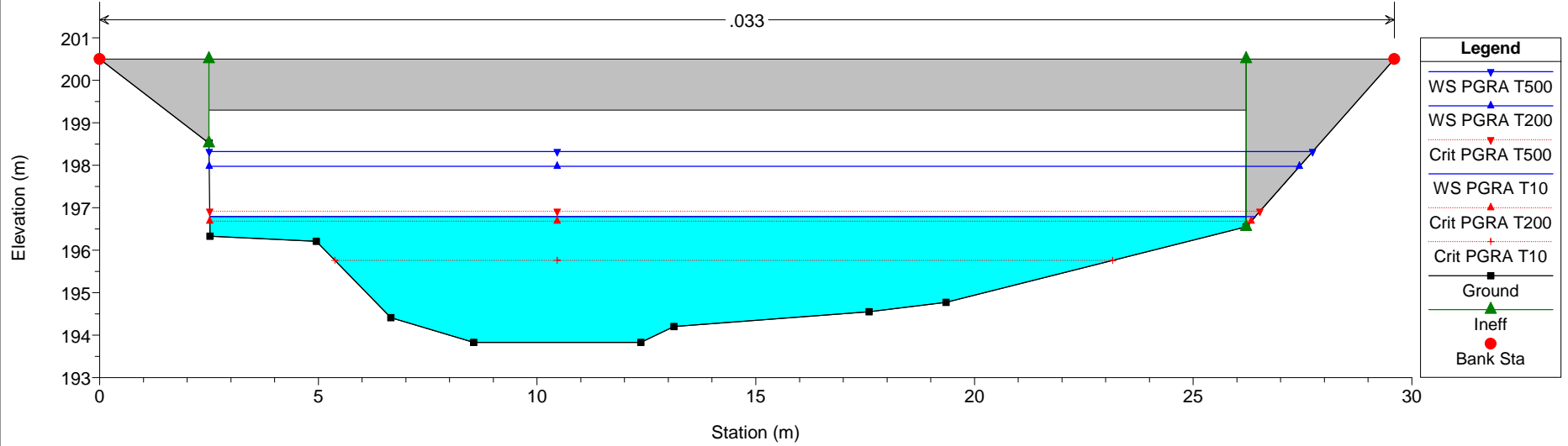
lambro Plan: Plan 01 06/04/2019  
Sez.1



lambro Plan: Plan 01 06/04/2019  
Ponte S.P.

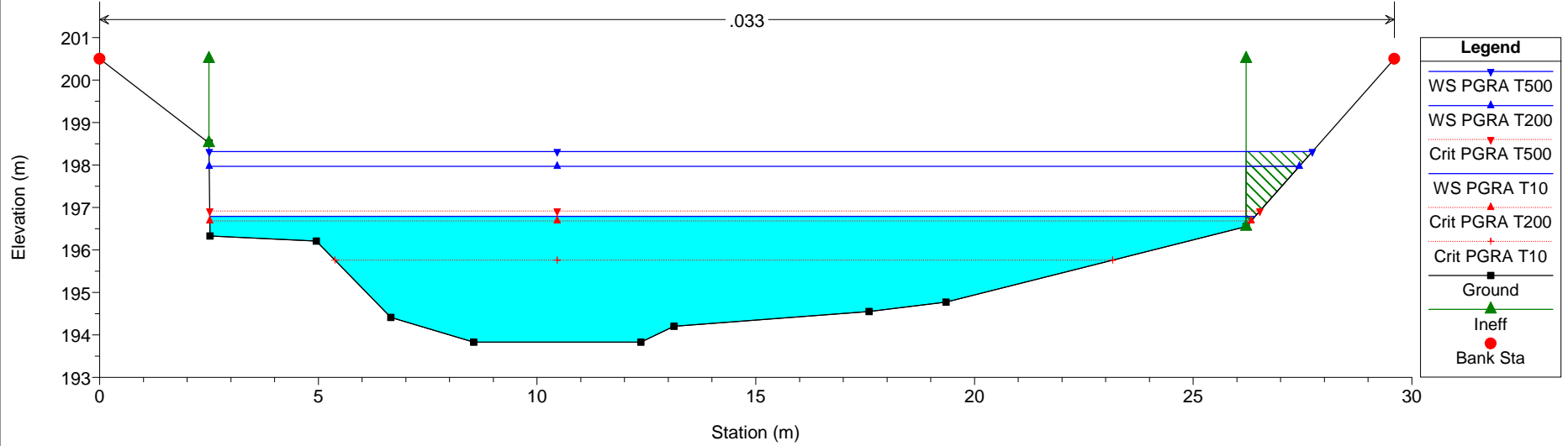


lambro Plan: Plan 01 06/04/2019  
Ponte S.P.



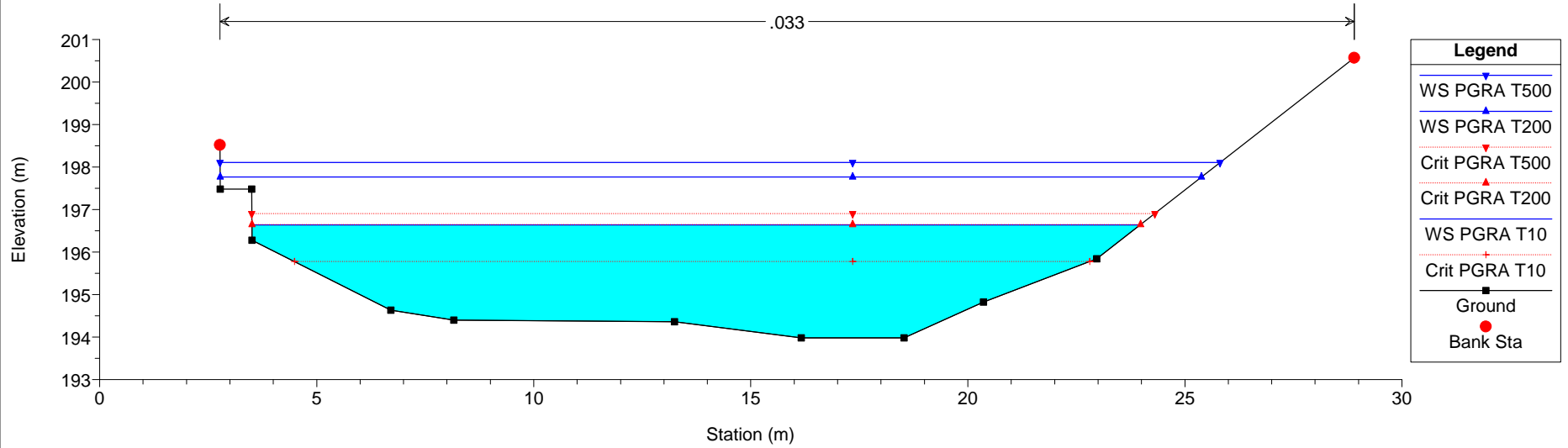
lambro Plan: Plan 01 06/04/2019

Sez.2



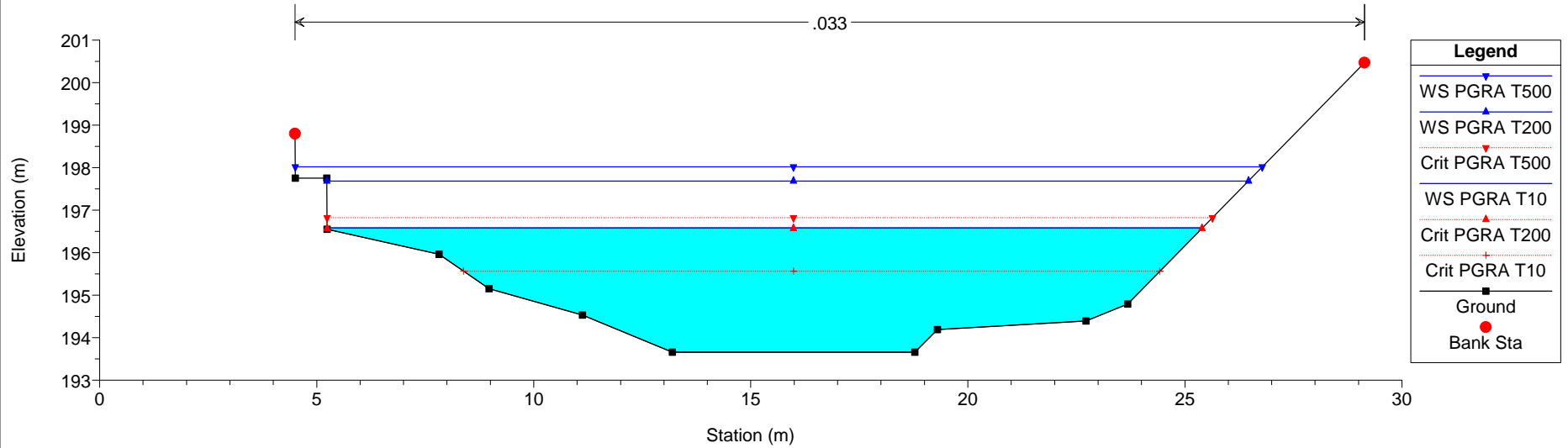
lambro Plan: Plan 01 06/04/2019

Sez.3



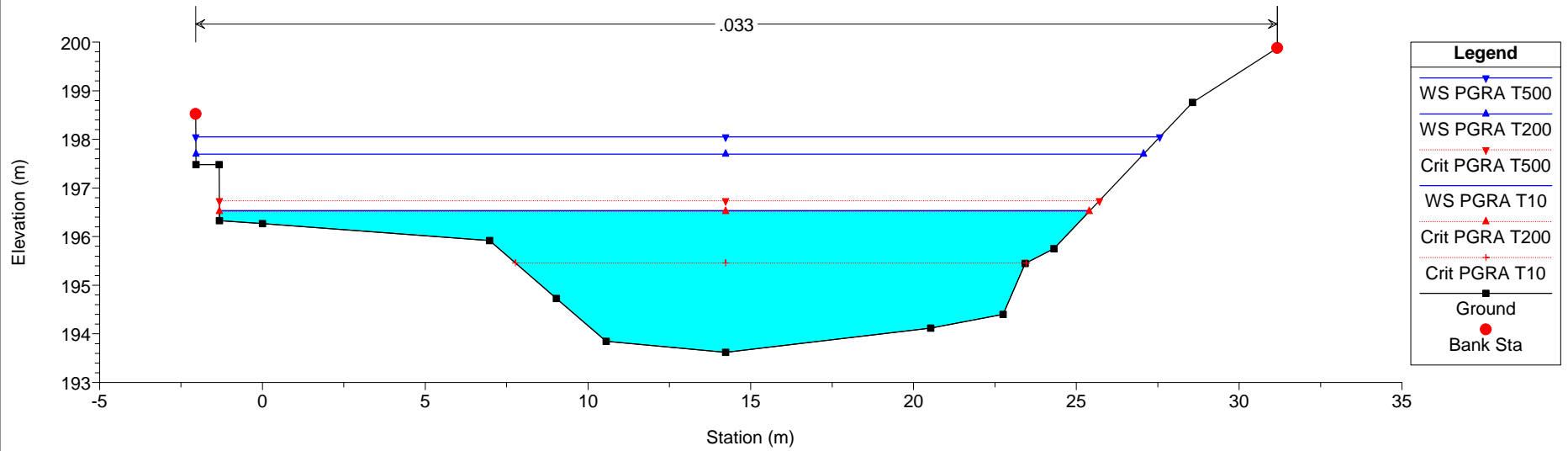
lambro Plan: Plan 01 06/04/2019

Sez.4



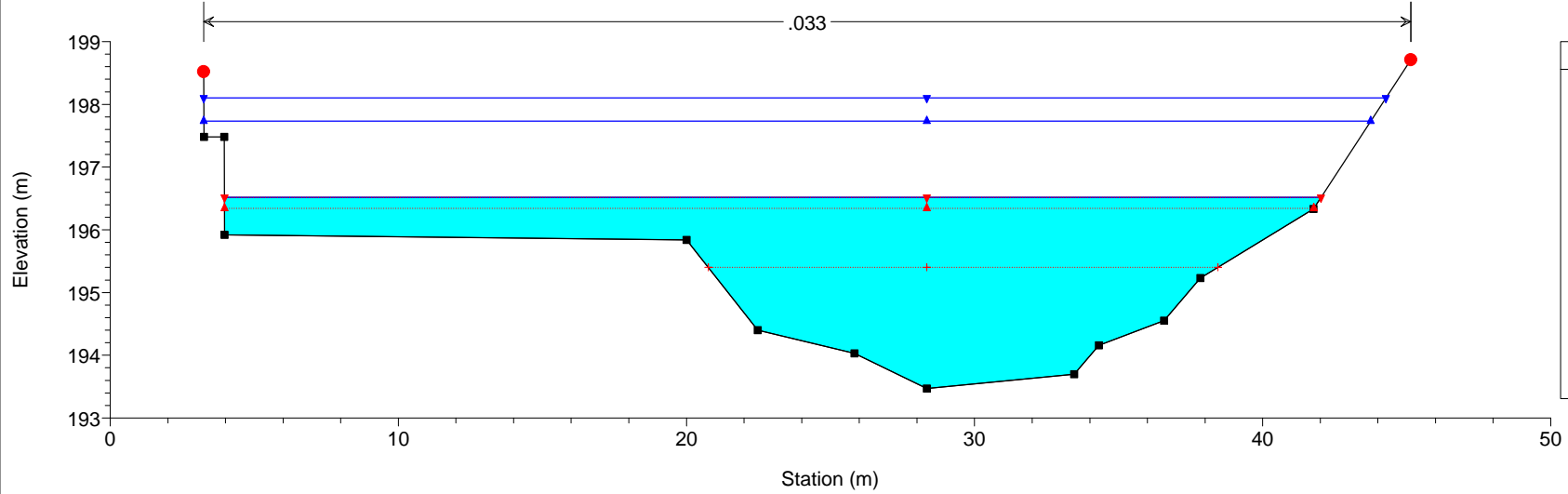
lambro Plan: Plan 01 06/04/2019

Sez.5

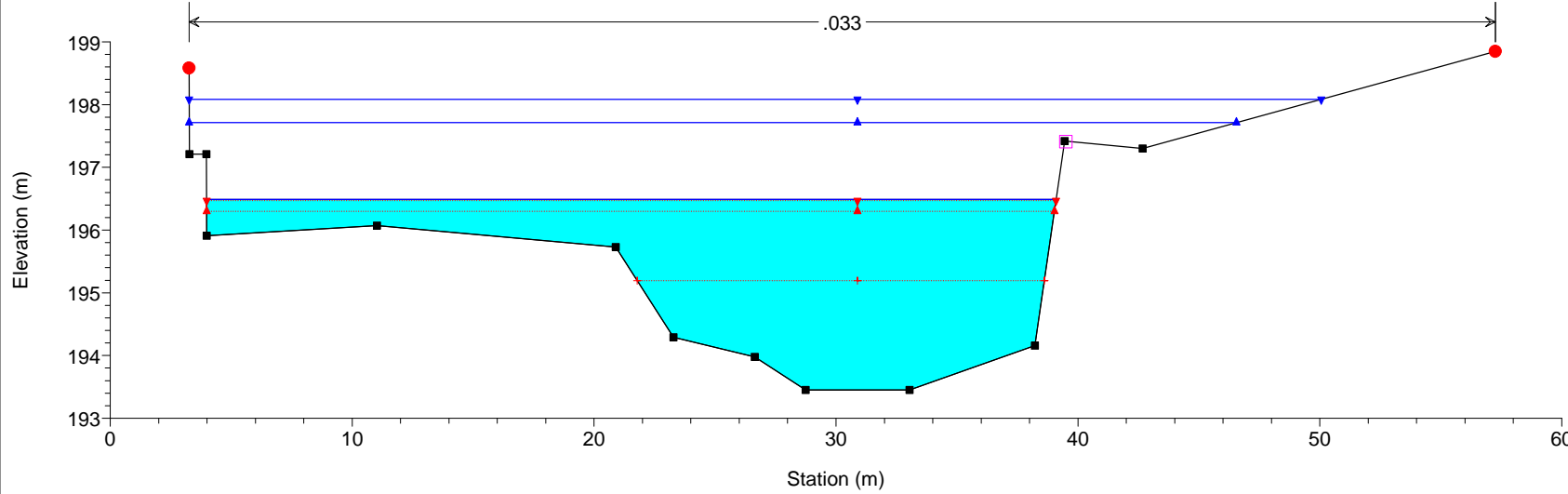




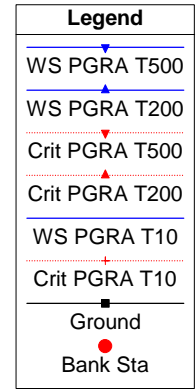
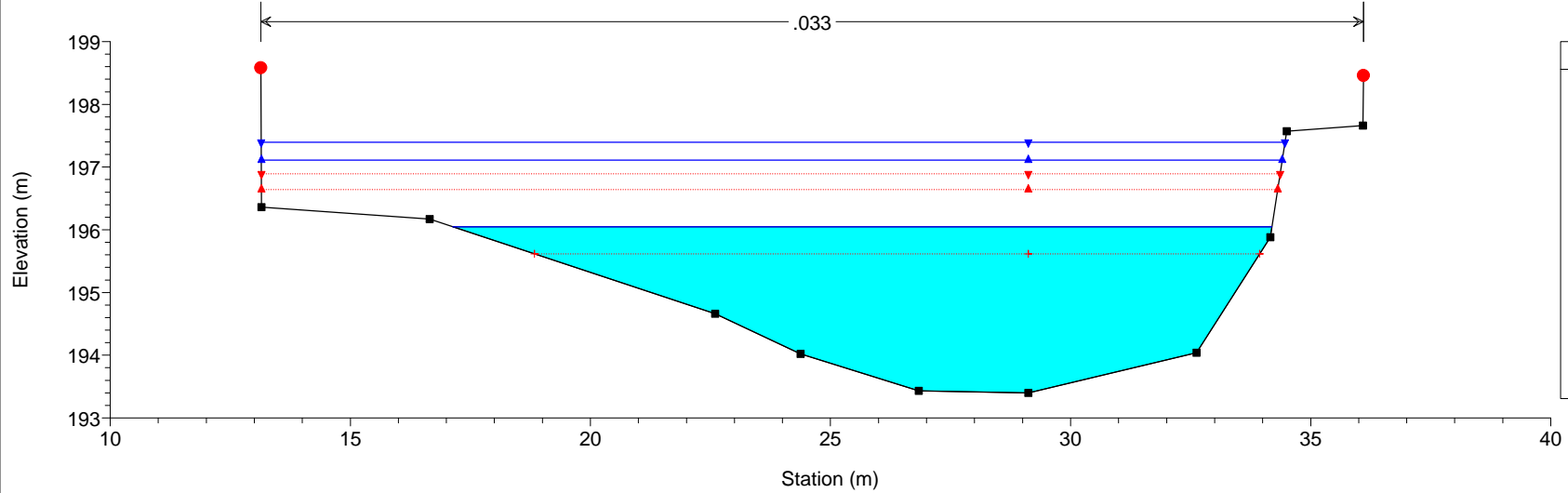
lambro Plan: Plan 01 06/04/2019  
Sez.6



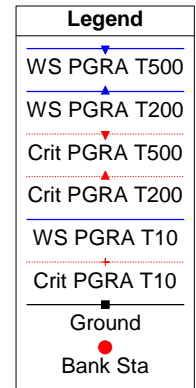
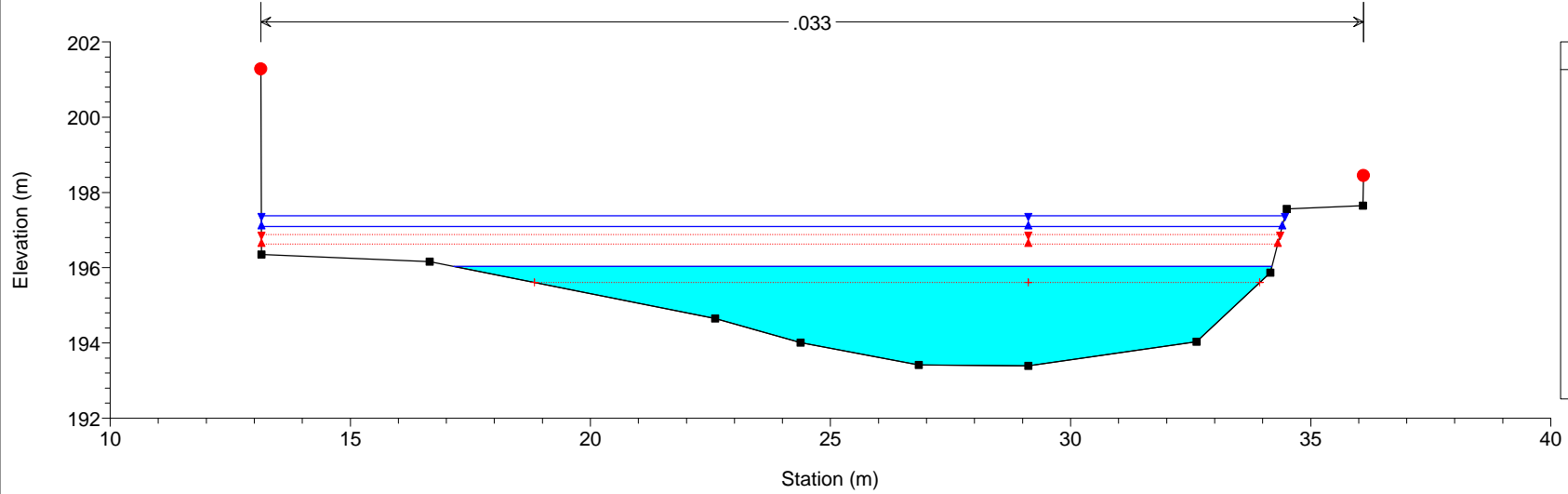
lambro Plan: Plan 01 06/04/2019  
Sez.7



lambro Plan: Plan 01 06/04/2019  
Sez.7bis

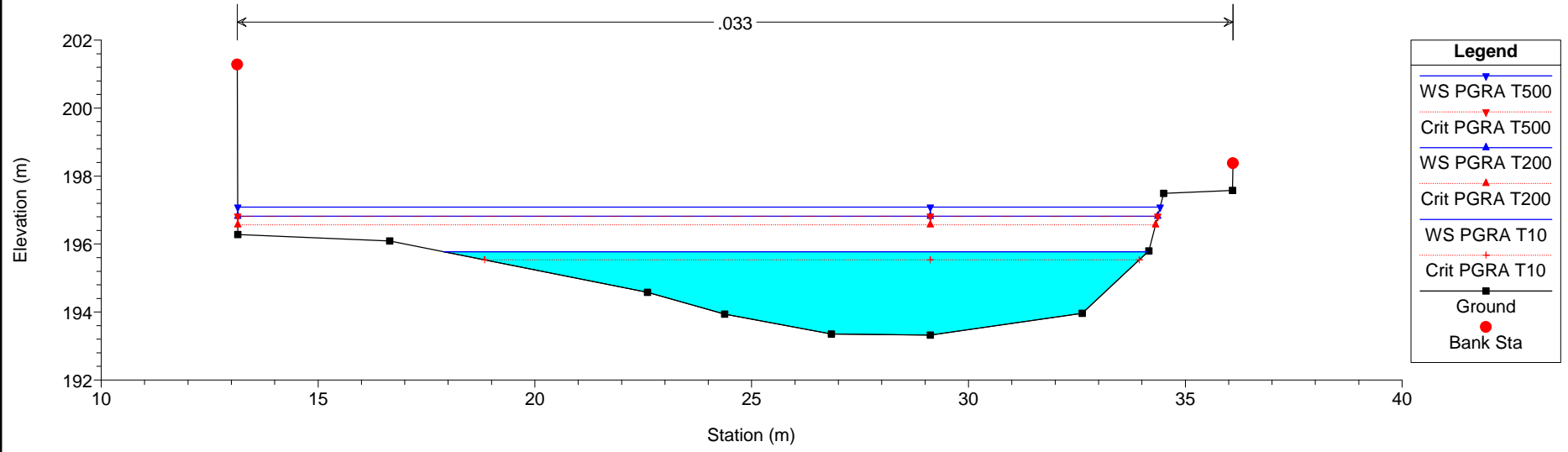


lambro Plan: Plan 01 06/04/2019  
Sez.7ter



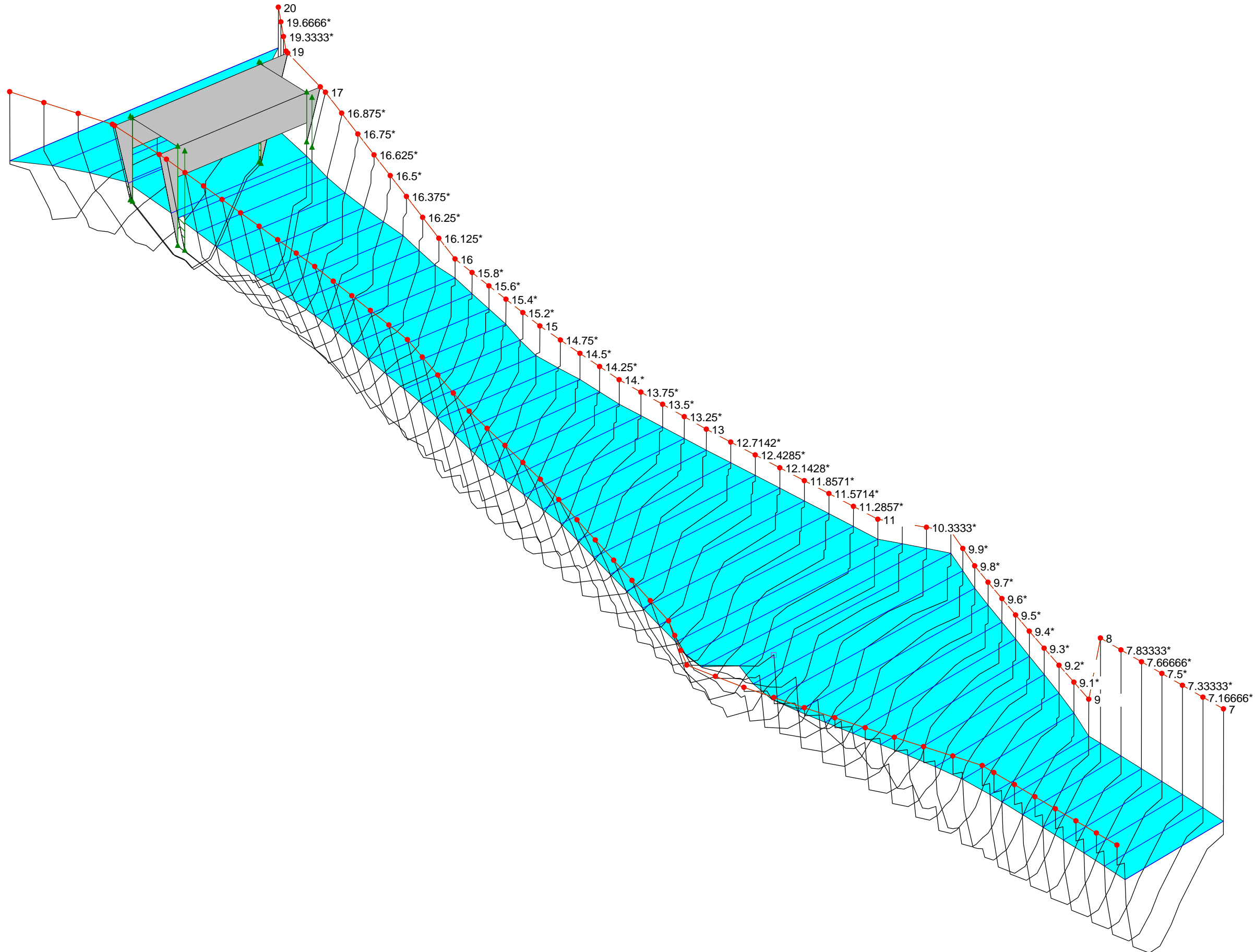
Iambro Plan: Plan 01 06/04/2019

Sez.9



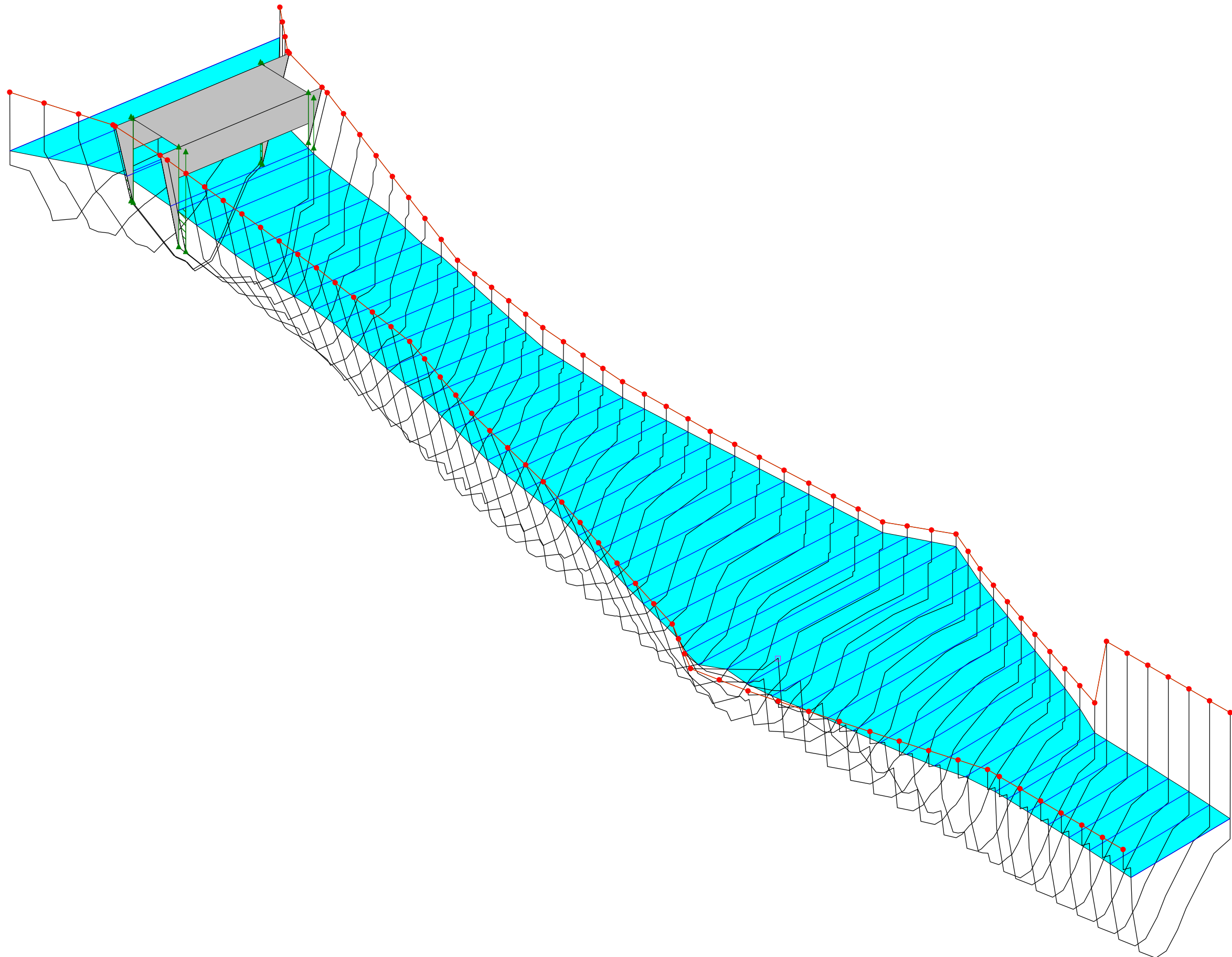
**3C - PROSPETTI TRIDIMENSIONALI ALVEO  
CON PORTATE PGRA T200 E T500 ANNI**

Legend	
	WS PGRA T200
	Ground
	Bank Sta
	Ground
	Ineff
	Levee



**Legend**

- WS PGRA T500
- Ground
- Bank Sta
- Ground
- Ineff
- Levee



**3D – TABELLE RISULTATI DI CALCOLO  
CON PORTATE PGRA T200 E T500 ANNI E  
PORTATA STUDIO PAI**

HEC-RAS Plan: Plan 01 River: Iambro Reach: 01

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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	L. Freeboard (m)	R. Freeboard (m)
01	20	PGRA T10	80.00	194.69	196.62	196.58	197.13	0.010137	3.18	25.15	22.34	0.96	3.05	4.18
01	20	PGRA T200	175.00	194.69	198.05	197.61	198.33	0.003846	2.36	74.19	49.99	0.62	1.62	2.75
01	20	PGRA T500	210.00	194.69	198.48	197.77	198.72	0.002444	2.20	95.43	50.00	0.51	1.19	2.32
01	20	STUDIO PAI	148.23	194.69	197.69	197.14	198.04	0.006585	2.63	56.28	48.51	0.78	1.98	3.11
01	19	PGRA T10	80.00	193.45	196.81	195.69	196.98	0.001639	1.83	43.76	23.34	0.42	3.69	3.69
01	19	PGRA T200	175.00	193.45	197.99	196.70	198.29	0.001586	2.43	71.93	26.66	0.45	2.51	2.51
01	19	PGRA T500	210.00	193.45	198.34	196.96	198.69	0.001581	2.61	80.32	27.45	0.46	2.16	2.16
01	19	STUDIO PAI	148.23	193.45	197.70	196.48	197.97	0.001590	2.28	65.06	26.01	0.44	2.80	2.80
01	18	PGRA T10	80.00		196.81		196.98							
01	18	PGRA T200	175.00		197.99		198.29							
01	18	PGRA T500	210.00		198.34		198.69							
01	18	STUDIO PAI	148.23		197.70		197.97							
01	17	PGRA T10	80.00	193.83	196.79	195.76	196.95	0.001660	1.80	44.52	23.90	0.42	3.71	3.71
01	17	PGRA T200	175.00	193.83	197.97	196.68	198.27	0.001663	2.41	72.47	24.92	0.44	2.53	2.53
01	17	PGRA T500	210.00	193.83	198.32	196.92	198.66	0.001701	2.60	80.72	25.22	0.45	2.18	2.18
01	17	STUDIO PAI	148.23	193.83	197.68	196.49	197.94	0.001630	2.26	65.72	24.68	0.43	2.82	2.82
01	16	PGRA T10	80.00	193.98	196.64	195.78	196.84	0.001994	2.01	39.75	20.46	0.46	1.88	3.93
01	16	PGRA T200	175.00	193.98	197.76	196.65	198.15	0.002422	2.74	63.79	22.60	0.52	0.76	2.81
01	16	PGRA T500	210.00	193.98	198.11	196.91	198.54	0.002484	2.93	71.61	23.04	0.53	0.41	2.46
01	16	STUDIO PAI	148.23	193.98	197.49	196.43	197.83	0.002351	2.57	57.60	22.26	0.51	1.03	3.08
01	15	PGRA T10	80.00	193.66	196.59	195.56	196.79	0.001947	2.00	40.00	20.17	0.45	2.21	3.88
01	15	PGRA T200	175.00	193.66	197.69	196.57	198.08	0.002412	2.79	62.78	21.23	0.52	1.11	2.78
01	15	PGRA T500	210.00	193.66	198.02	196.82	198.48	0.002602	2.99	70.12	22.28	0.54	0.78	2.45
01	15	STUDIO PAI	148.23	193.66	197.42	196.32	197.76	0.002280	2.59	57.19	20.98	0.50	1.38	3.05
01	13	PGRA T10	80.00	193.62	196.53	195.46	196.70	0.002055	1.83	43.71	26.74	0.46	1.99	3.35
01	13	PGRA T200	175.00	193.62	197.69	196.52	197.97	0.001855	2.31	75.89	29.10	0.46	0.83	2.19
01	13	PGRA T500	210.00	193.62	198.05	196.74	198.35	0.001810	2.43	86.30	29.61	0.45	0.47	1.83
01	13	STUDIO PAI	148.23	193.62	197.41	196.34	197.66	0.001821	2.19	67.78	27.99	0.45	1.11	2.47
01	11	PGRA T10	80.00	193.47	196.52	195.40	196.62	0.001447	1.44	55.48	38.06	0.38	2.00	2.19
01	11	PGRA T200	175.00	193.47	197.73	196.34	197.88	0.001003	1.70	102.97	40.51	0.34	0.79	0.98
01	11	PGRA T500	210.00	193.47	198.10	196.52	198.26	0.000946	1.78	117.98	41.03	0.34	0.42	0.61
01	11	STUDIO PAI	148.23	193.47	197.44	196.21	197.58	0.001029	1.63	91.20	39.38	0.34	1.08	1.27
01	10	PGRA T10	80.00	193.45	196.49	195.19	196.60	0.001432	1.46	54.62	35.11	0.37	2.09	2.36
01	10	PGRA T200	175.00	193.45	197.71	196.30	197.87	0.001247	1.75	100.07	43.28	0.37	0.87	1.14
01	10	PGRA T500	210.00	193.45	198.09	196.47	198.25	0.001187	1.80	116.89	46.80	0.36	0.49	0.76
01	10	STUDIO PAI	148.23	193.45	197.42	196.16	197.56	0.001266	1.69	87.70	40.40	0.37	1.16	1.43



HEC-RAS Plan: Plan 01 River: Iambro Reach: 01 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (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	L. Freeboard (m)	R. Freeboard (m)
01	9	PGRA T10	80.00	193.40	196.05	195.62	196.45	0.004896	2.82	28.35	17.06	0.70	2.53	2.41
01	9	PGRA T200	175.00	193.40	197.11	196.64	197.73	0.005066	3.49	50.10	21.26	0.73	1.47	1.35
01	9	PGRA T500	210.00	193.40	197.40	196.89	198.11	0.005144	3.74	56.16	21.32	0.74	1.18	1.06
01	9	STUDIO PAI	148.23	193.40	196.89	196.45	197.43	0.004940	3.27	45.36	21.22	0.71	1.69	1.57
01	8	PGRA T10	80.00	193.39	196.03	195.61	196.44	0.004926	2.83	28.29	17.04	0.70	5.25	2.42
01	8	PGRA T200	175.00	193.39	197.10	196.63	197.72	0.005096	3.50	50.01	21.26	0.73	4.18	1.35
01	8	PGRA T500	210.00	193.39	197.38	196.88	198.10	0.005173	3.75	56.06	21.32	0.74	3.90	1.07
01	8	STUDIO PAI	148.23	193.39	196.87	196.44	197.42	0.004968	3.27	45.27	21.21	0.72	4.41	1.58
01	7	PGRA T10	80.00	193.32	195.77	195.53	196.29	0.006804	3.18	25.12	16.24	0.82	5.51	2.61
01	7	PGRA T200	175.00	193.32	196.82	196.56	197.57	0.006804	3.84	45.53	21.22	0.84	4.46	1.56
01	7	PGRA T500	210.00	193.32	197.09	196.82	197.94	0.006802	4.10	51.26	21.27	0.84	4.19	1.29
01	7	STUDIO PAI	148.23	193.32	196.60	196.37	197.27	0.006806	3.62	40.90	21.17	0.83	4.68	1.78