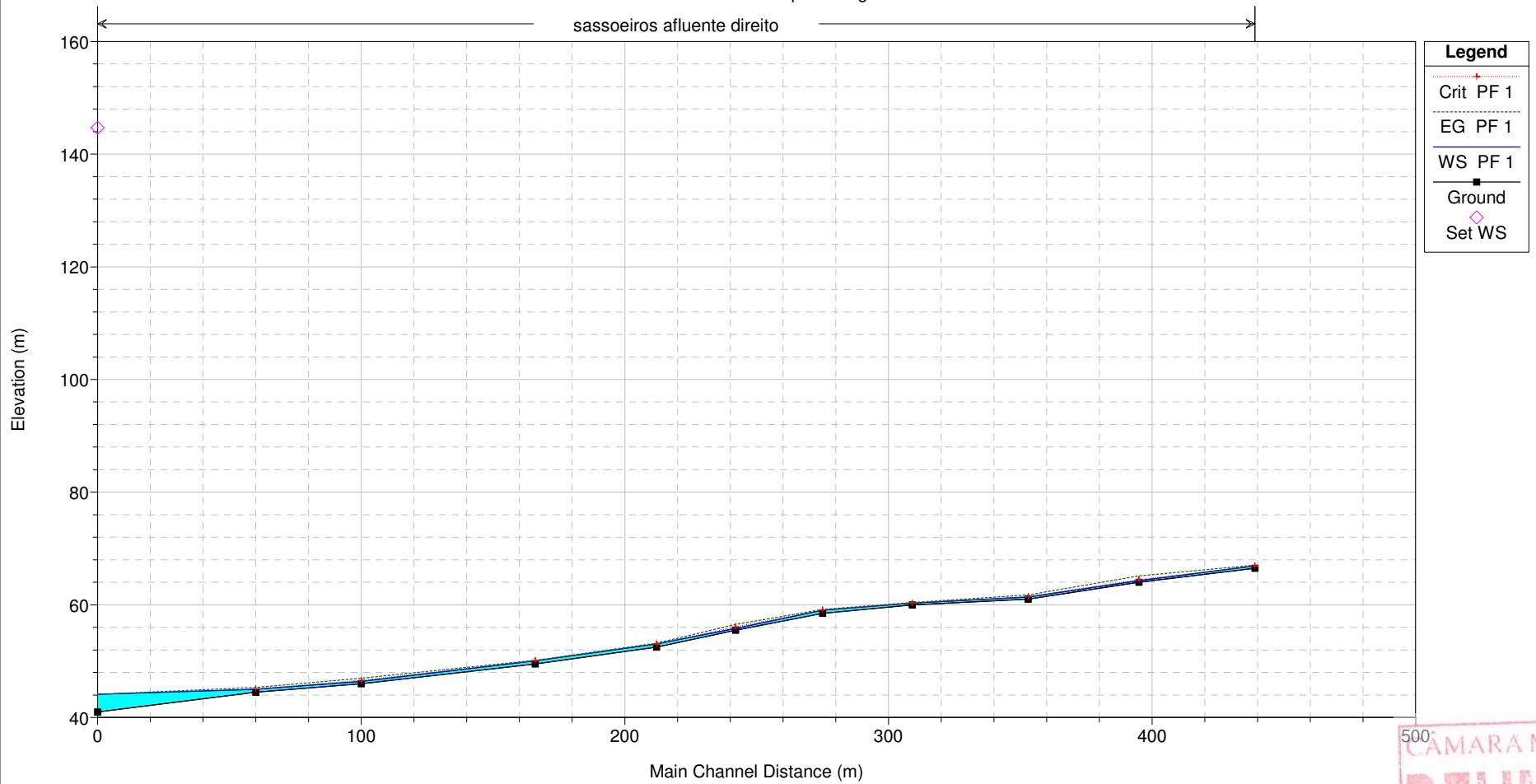
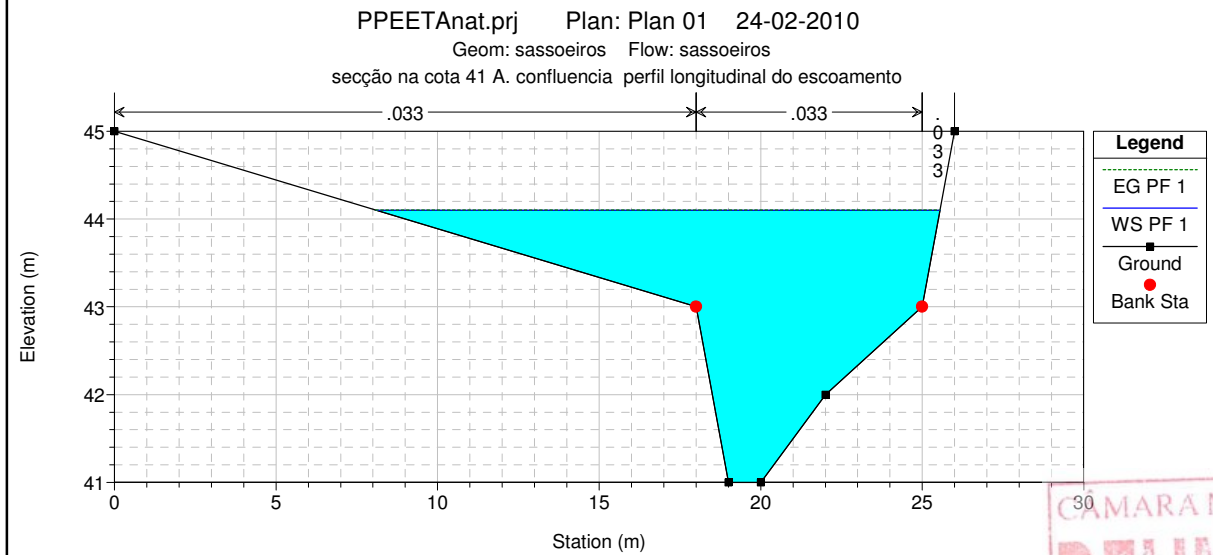
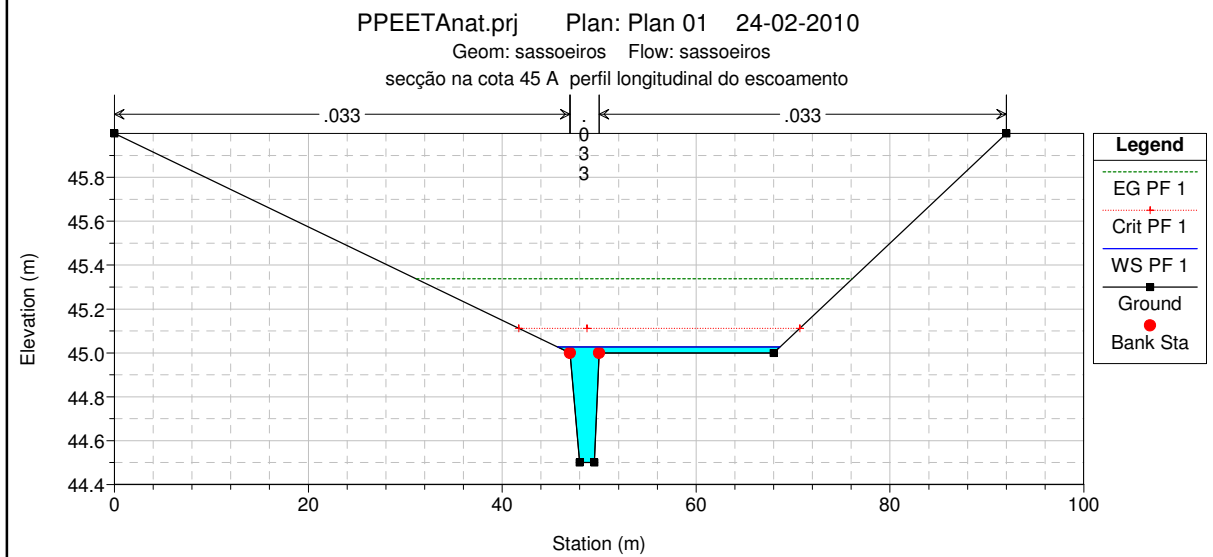
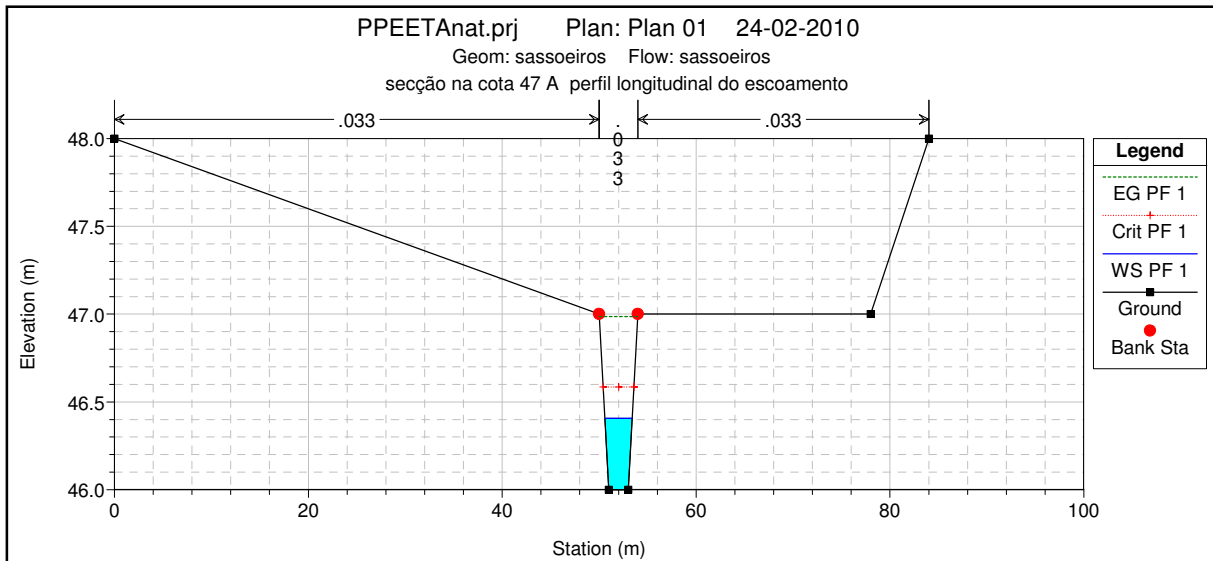
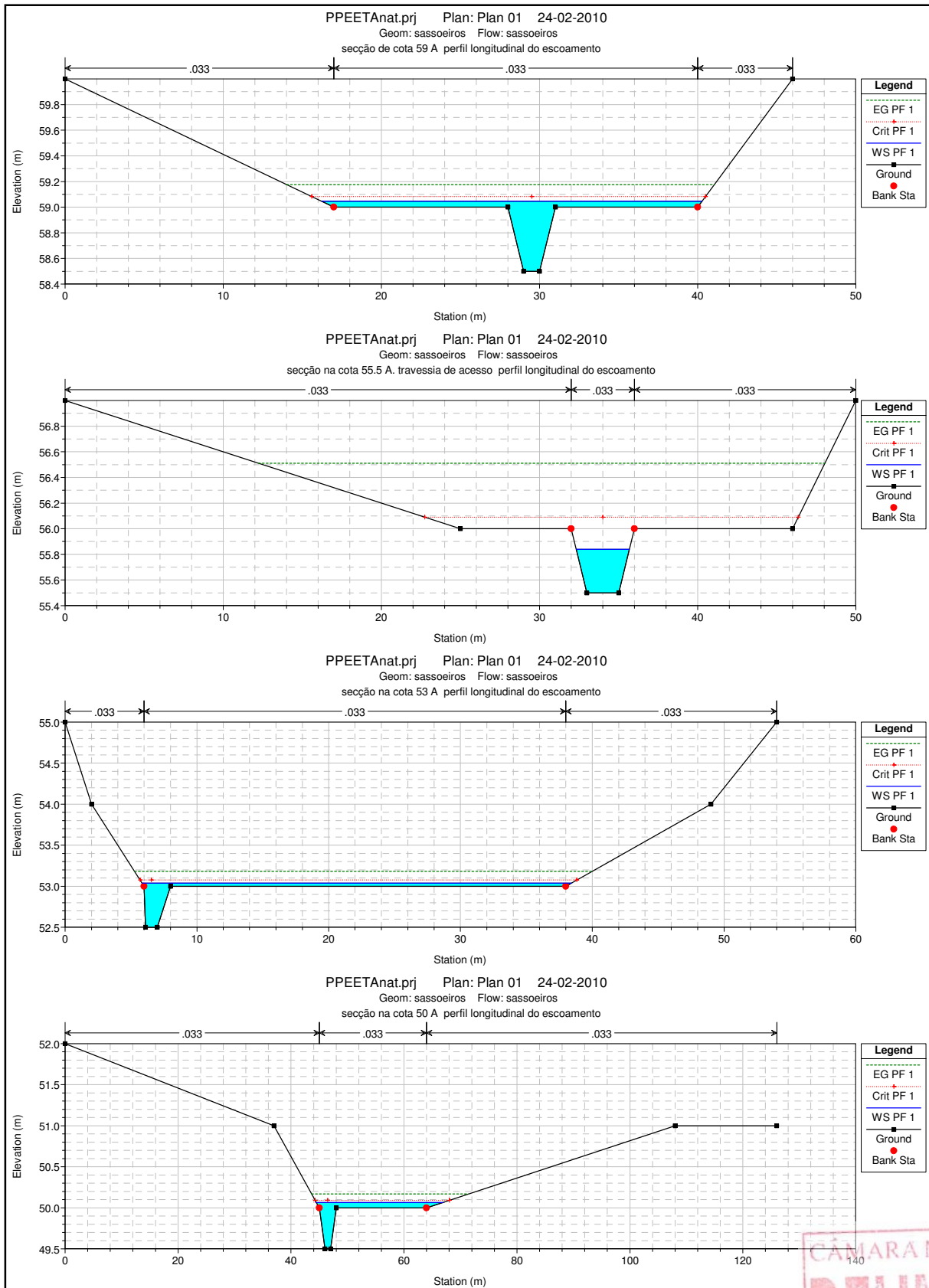


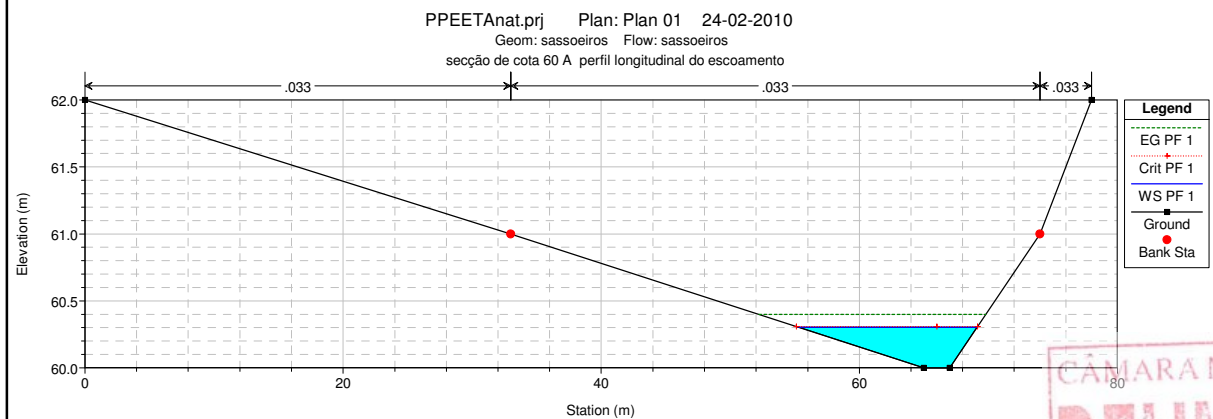
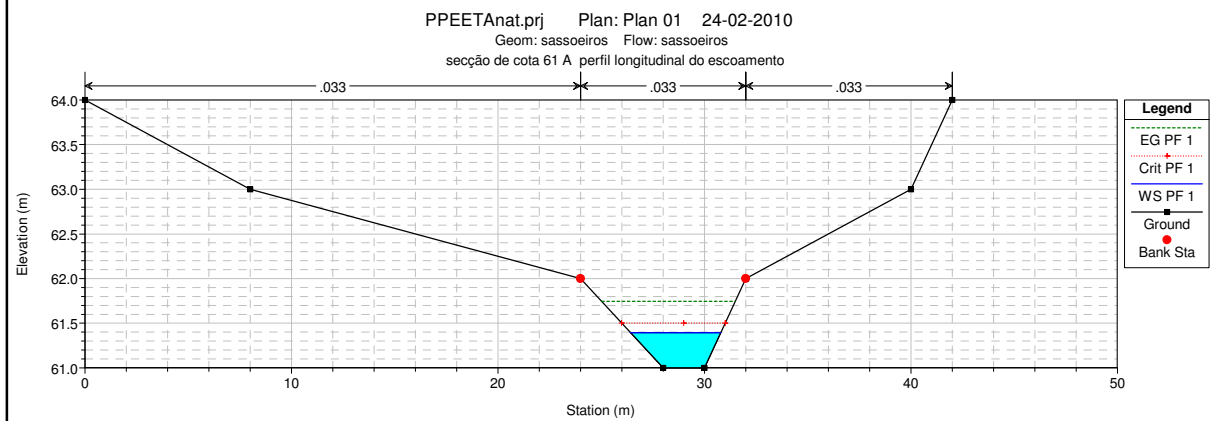
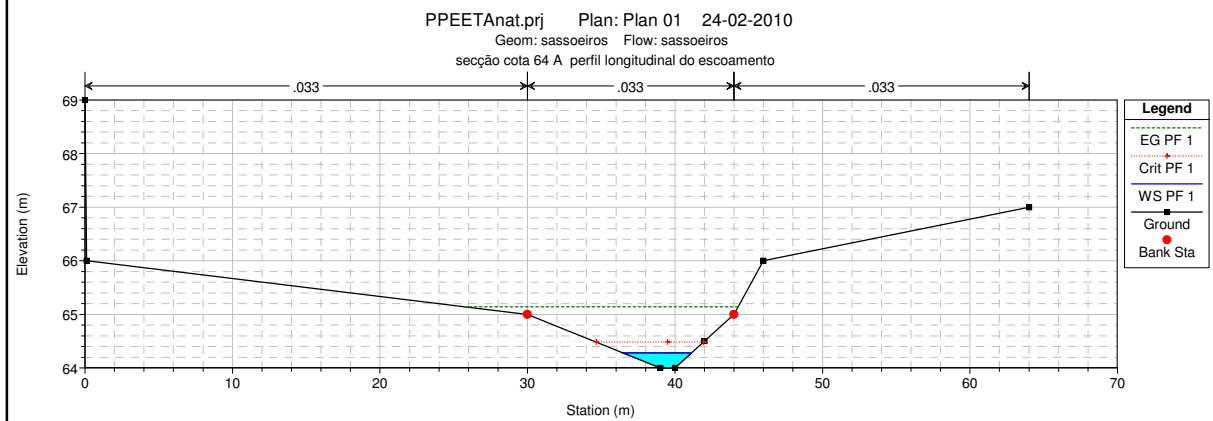
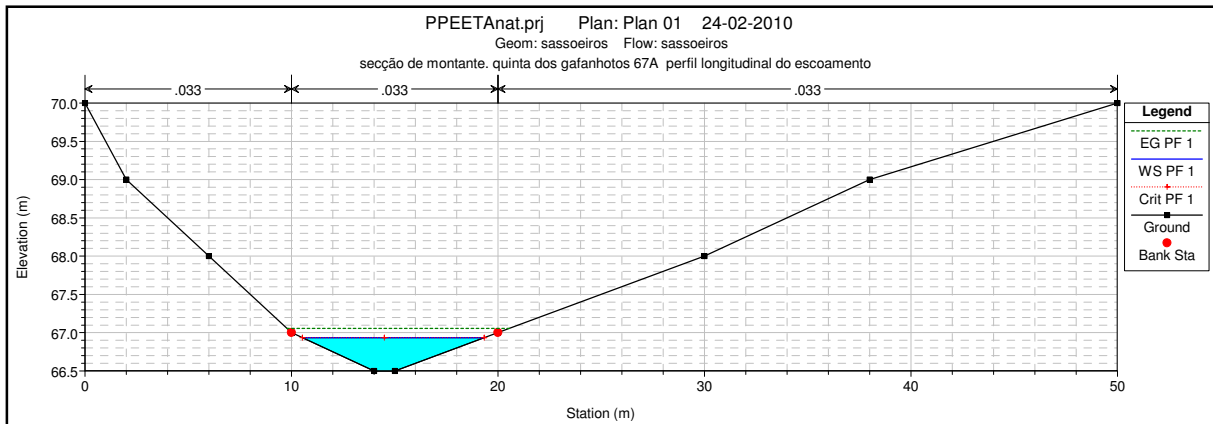
PPEETAnat.prj Plan: Plan 01 24-02-2010
Geom: sassoeiros Flow: sassoeiros perfil longitudinal do escoamento

sassoeiros afluente direito



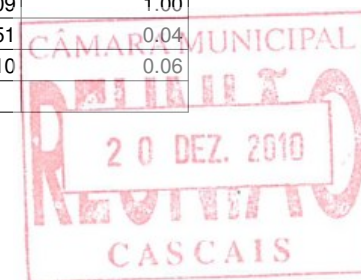






HEC-RAS Plan: Plan 01 Profile: PF 1

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
troço montante	67	PF 1	21.00	67.00	68.48	68.48	69.08	0.014643	3.48	6.24	5.48	0.92
troço montante	63	PF 1	21.00	63.00	63.69	64.51	66.66	0.152090	7.64	2.75	4.04	2.95
troço montante	61	PF 1	21.00	61.00	62.18	62.51	63.09	0.027899	4.34	5.59	15.03	1.29
troço montante	57	PF 1	21.00	57.00	57.79	58.47	60.19	0.109368	6.87	3.06	3.96	2.50
troço montante	54	PF 1	21.00	54.00	55.04	55.50	56.32	0.043562	5.01	4.30	7.66	1.59
troço montante	50	PF 1	21.00	50.00	51.47	51.97	53.04	0.055843	5.71	3.98	5.37	1.71
troço montante	47	PF 1	25.00	47.00	48.19	48.61	49.50	0.039074	5.17	5.42	12.11	1.53
troço montante	44	PF 1	25.00	44.00	44.96	45.54	46.40	0.049885	5.33	4.69	4.99	1.75
troço montante	42	PF 1	25.00	42.00	44.11	44.42	44.82	0.018221	4.30	8.12	15.25	0.96
troço montante	40.25	PF 1	25.00	40.25	41.45	41.99	43.31	0.051790	6.13	4.29	5.36	1.95
afluente direito	67	PF 1	3.30	66.50	66.93	66.93	67.06	0.017673	1.56	2.12	8.80	1.01
afluente direito	64	PF 1	3.30	64.00	64.28	64.48	65.14	0.195680	4.11	0.80	4.68	3.17
afluente direito	61	PF 1	3.30	61.00	61.40	61.50	61.75	0.041044	2.62	1.26	4.37	1.56
afluente direito	60	PF 1	3.30	60.00	60.30	60.31	60.40	0.021389	1.38	2.40	13.82	1.06
afluente direito	59	PF 1	3.30	58.50	59.05	59.08	59.18	0.072079	1.61	2.07	24.04	1.72
afluente direito	55.5	PF 1	3.30	55.50	55.84	56.09	56.51	0.087295	3.63	0.91	3.36	2.23
afluente direito	53	PF 1	3.30	52.50	53.04	53.08	53.18	0.130561	1.68	1.97	32.58	2.17
afluente direito	50	PF 1	3.30	49.50	50.07	50.09	50.17	0.039070	1.43	2.37	22.43	1.33
afluente direito	47	PF 1	3.30	46.00	46.41	46.59	46.99	0.059043	3.38	0.98	2.81	1.83
afluente direito	45	PF 1	3.30	44.50	45.03	45.11	45.34	0.027478	2.55	1.71	22.89	1.29
afluente direito	42	PF 1	3.30	41.00	44.10		44.10	0.000018	0.19	20.95	17.45	0.04
troço jusante	40.2	PF 1	25.00	40.20	41.05	41.81	43.80	0.116538	7.35	3.40	4.16	2.59
troço jusante	38.5	PF 1	25.00	38.50	39.13	39.28	39.76	0.043521	4.23	9.46	51.40	1.71
troço jusante	37.5	PF 1	25.00	37.50	37.50	37.51	37.67	0.016153	0.10	13.82	48.55	0.49
troço jusante	35.7	PF 1	25.00	35.50	36.79	36.46	36.83	0.001790	0.93	29.98	55.91	0.33
troço jusante	35	PF 1	25.00	35.00	36.79		36.80	0.000231	0.57	62.21	79.04	0.14
troço jusante	34.3	PF 1	25.00	34.30	35.90	35.90	36.68	0.019319	3.92	6.38	4.09	1.00
troço jusante	33	PF 1	25.00	33.00	36.24	34.30	36.24	0.000019	0.23	126.83	66.51	0.04
troço jusante	32	PF 1	25.00	32.00	36.24	33.26	36.24	0.000005	0.35	122.67	50.10	0.06
troço jusante	31.9		Culvert									

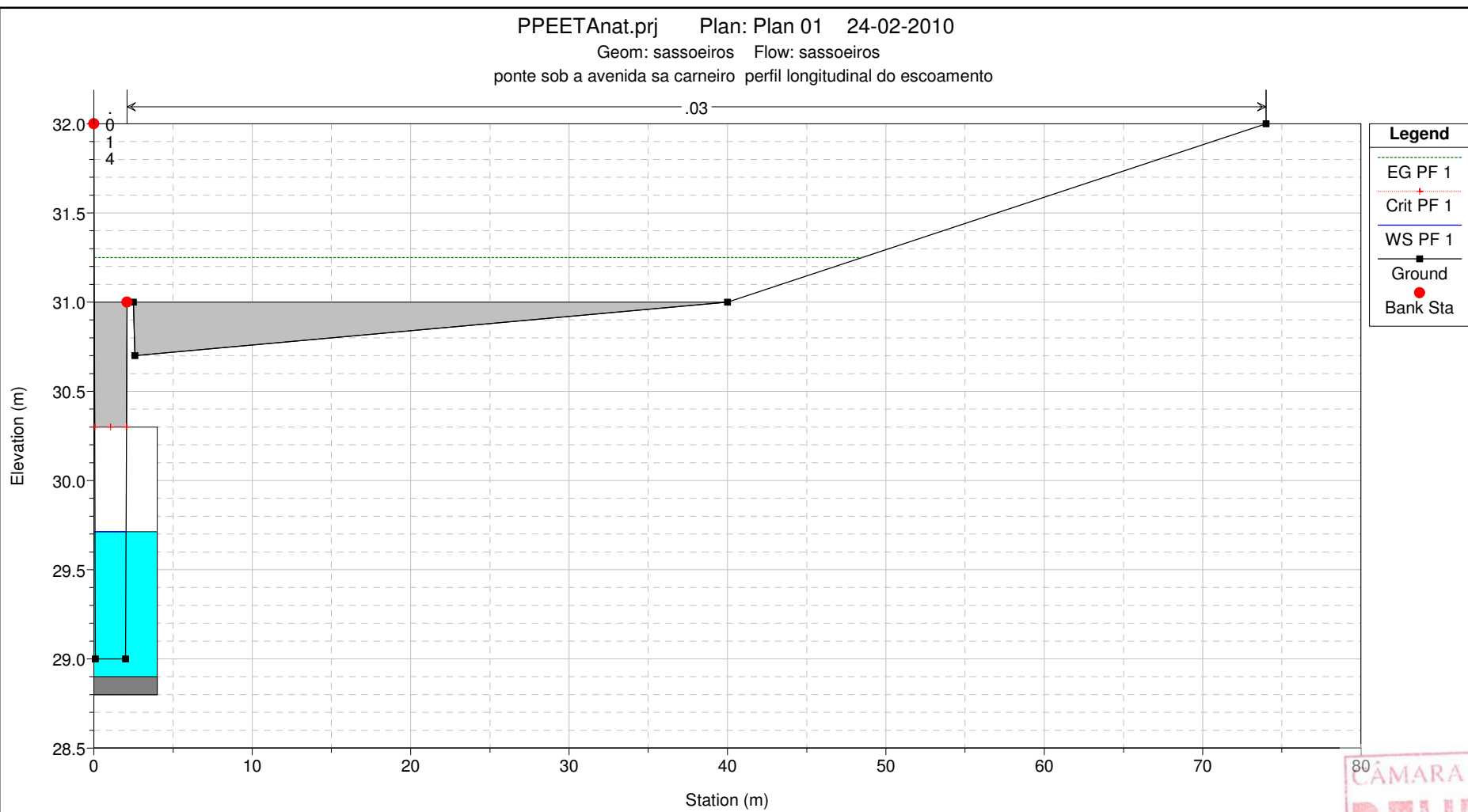


HEC-RAS Plan: Plan 01 Profile: PF 1 (Continued)

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
troço jusante	31.8	PF 1	25.00	31.80	34.35	34.35	34.61	0.002306	2.87	16.70	29.44	0.59
troço jusante	31	PF 1	25.00	30.00	31.19	31.59	33.86	0.030435	8.25	5.84	24.27	2.43
troço jusante	29	PF 1	25.00	29.00	31.01	31.28	32.02	0.008266	4.99	9.88	40.21	1.15
troço jusante	28.8		Culvert									
troço jusante	28	PF 1	25.00	28.00	28.80	29.45	30.82	0.083700	6.31	3.96	5.06	1.15



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 Geom: sassoeiros Flow: sassoeiros
 ponte sob a avenida sa carneiro perfil longitudinal do escoamento

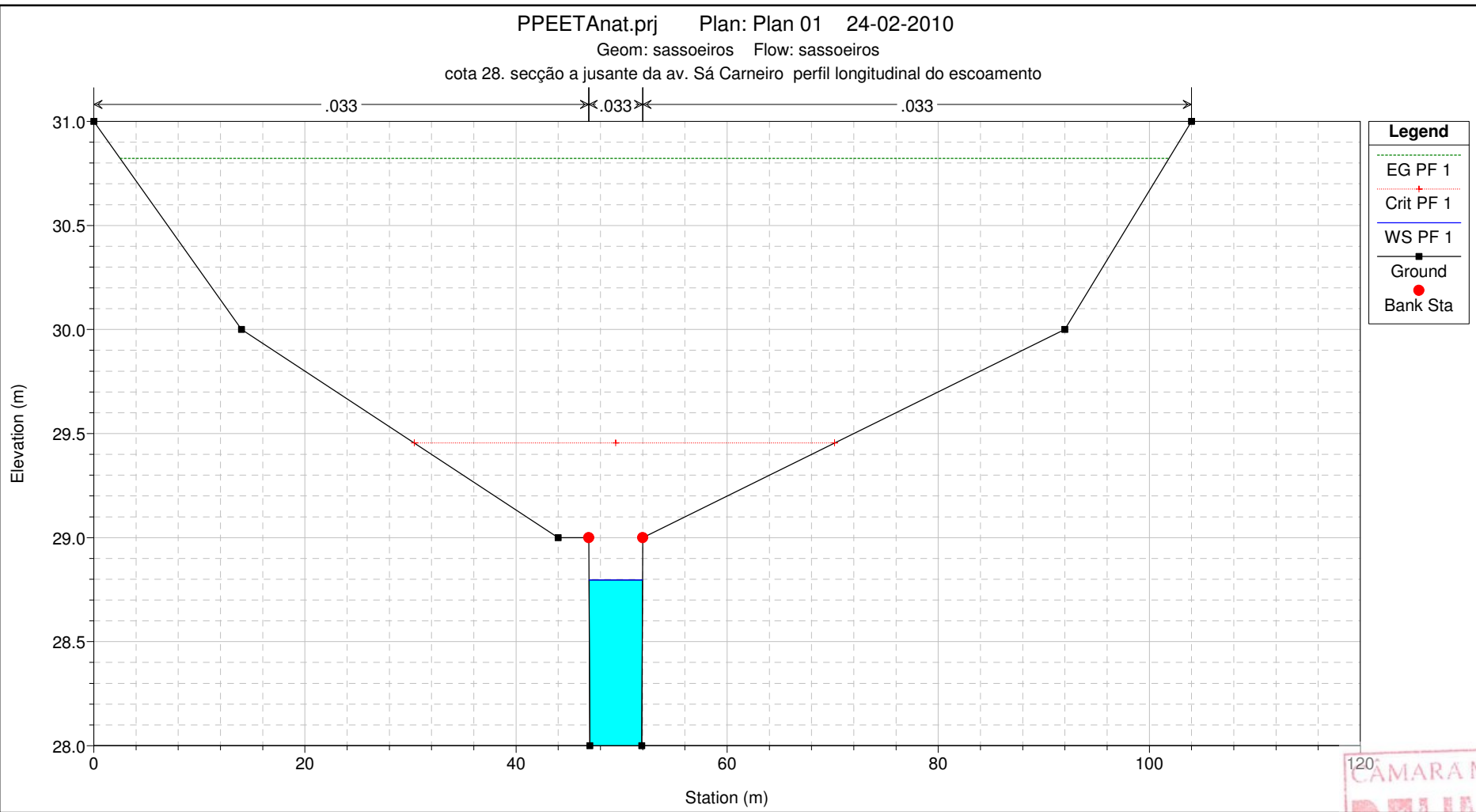


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Geom: sassoeiros Flow: sassoeiros

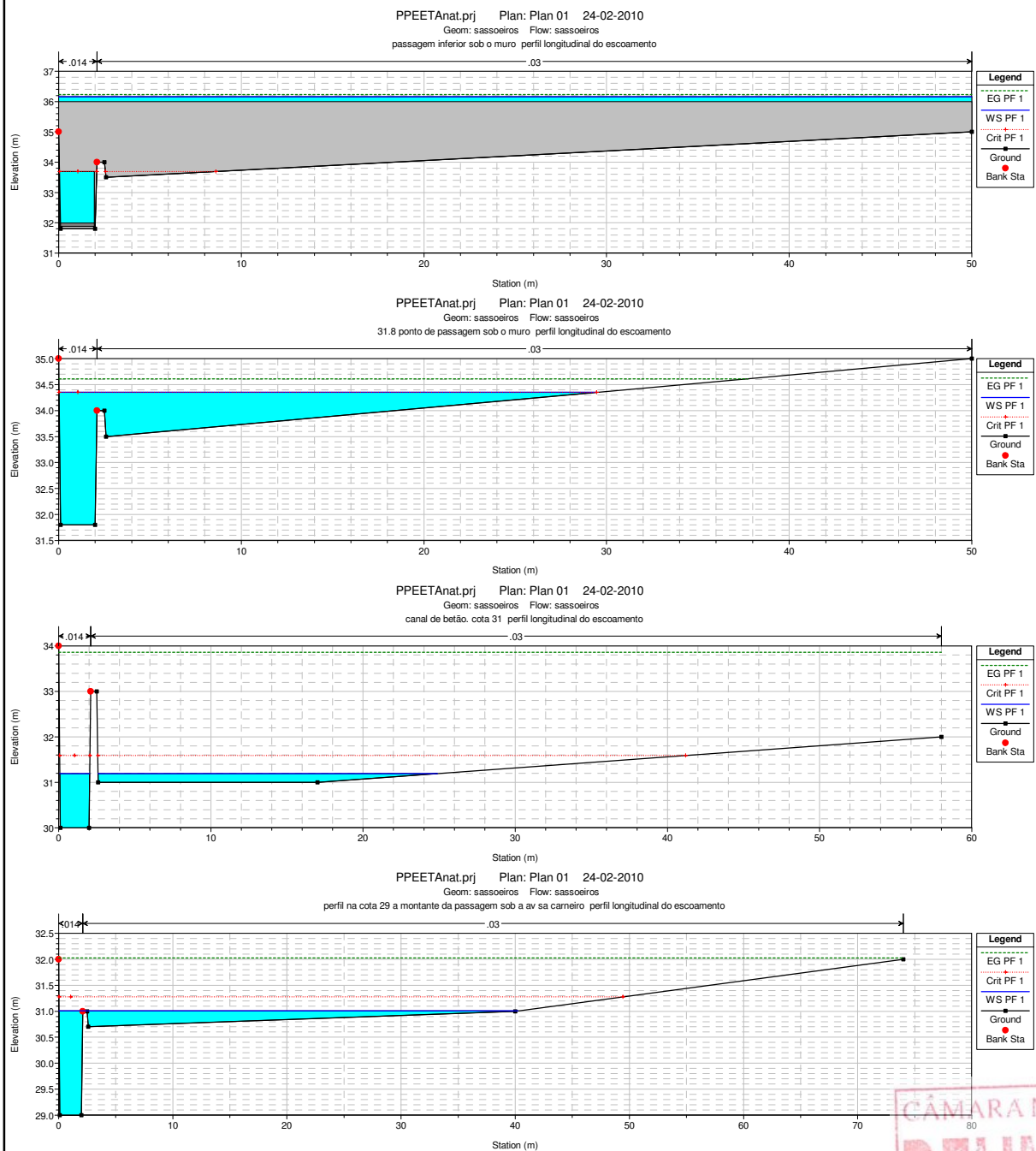
cota 28. secção a jusante da av. Sá Carneiro perfil longitudinal do escoamento

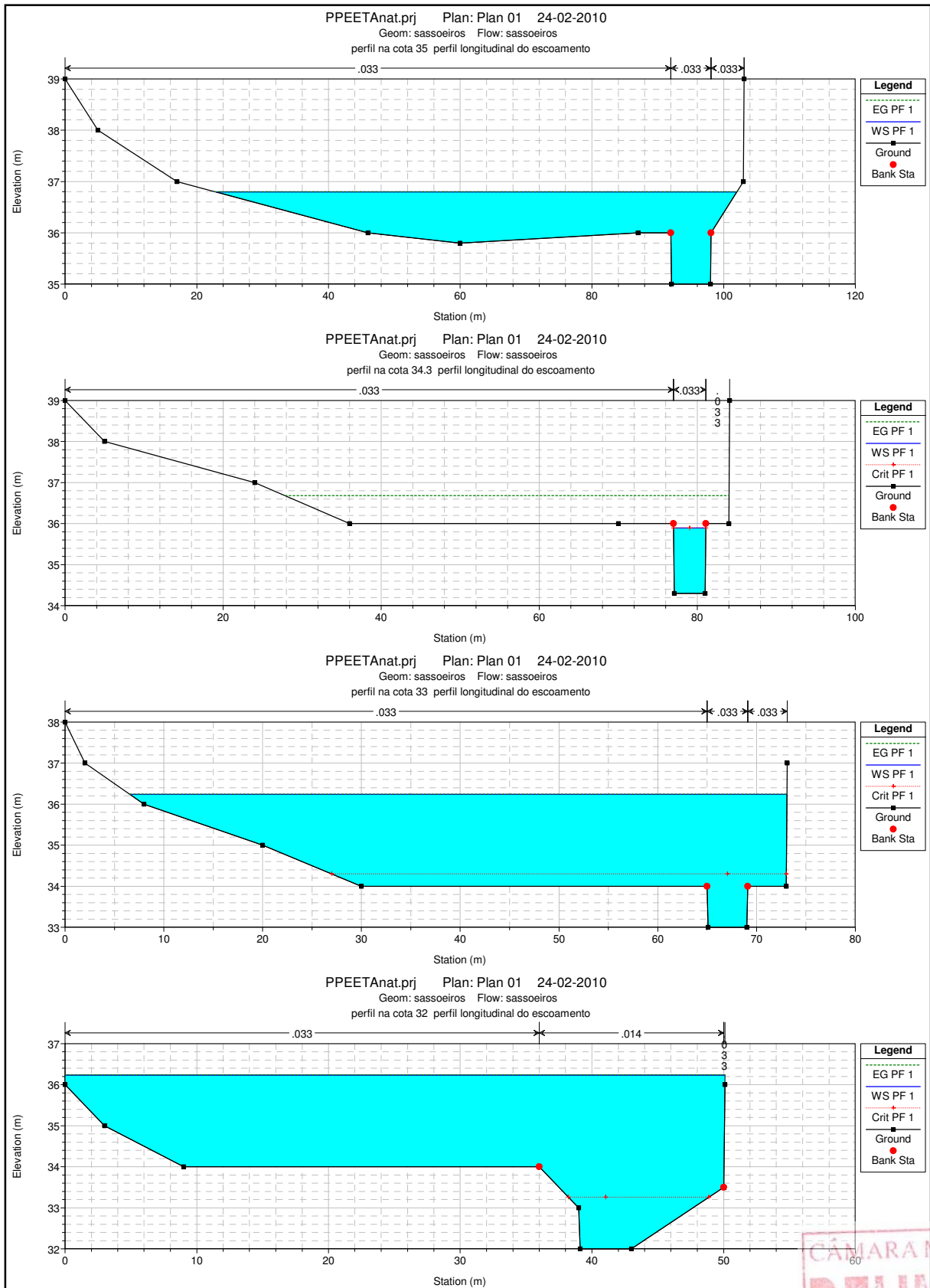


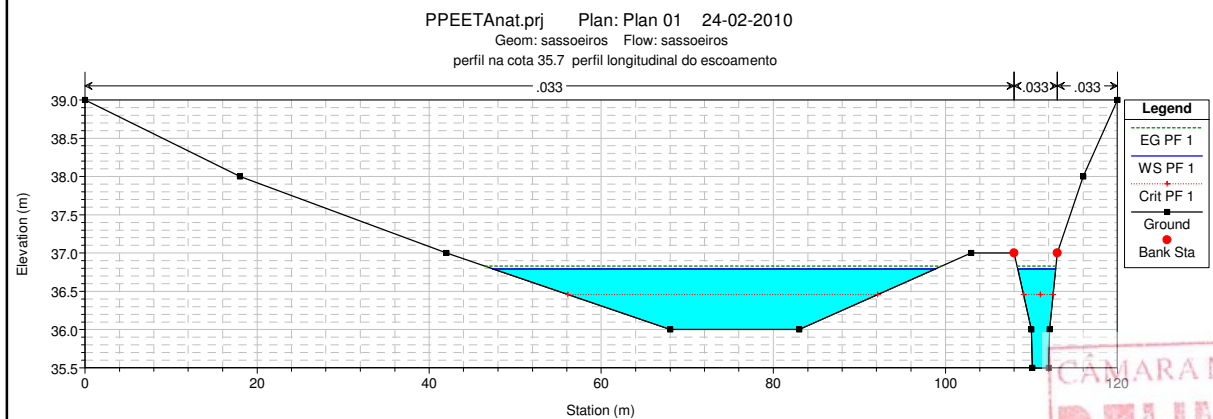
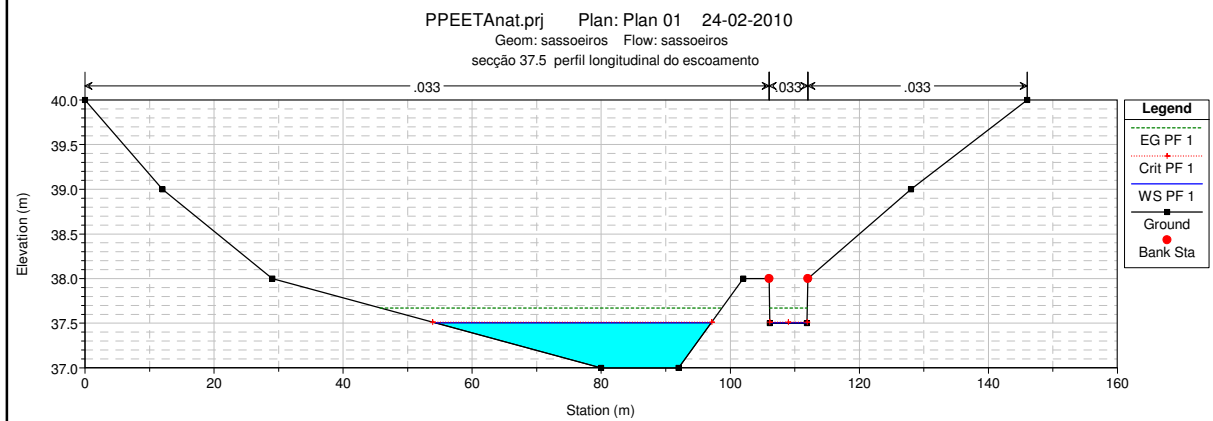
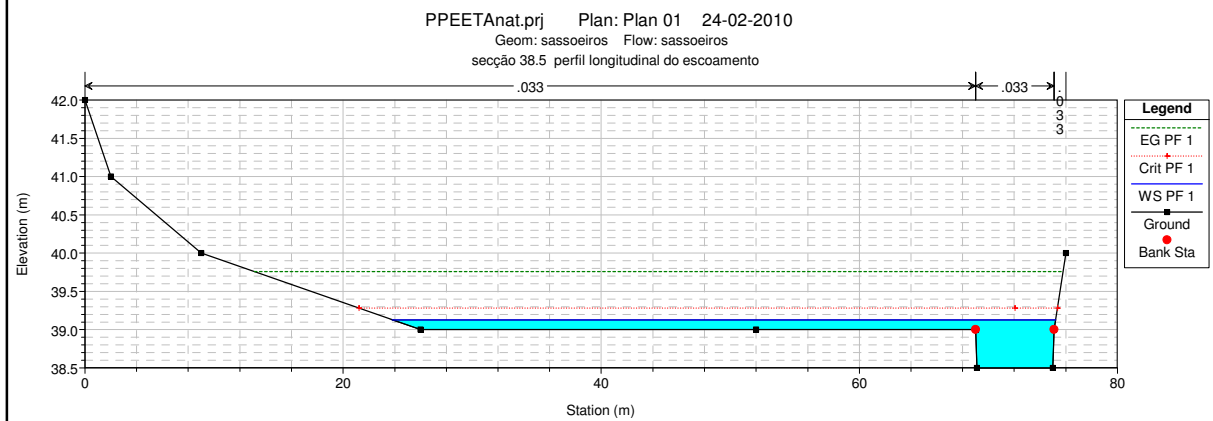
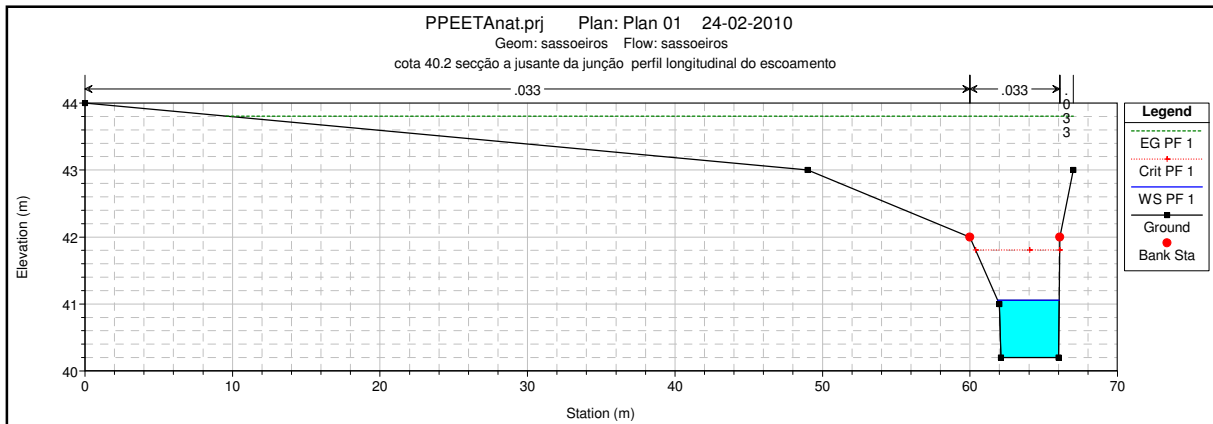
Legend	
EG PF 1	(Green dashed line)
Crit PF 1	(Red dotted line with cross)
WS PF 1	(Blue solid line)
Ground	(Black solid line with square)
Bank Sta	(Red solid circle)

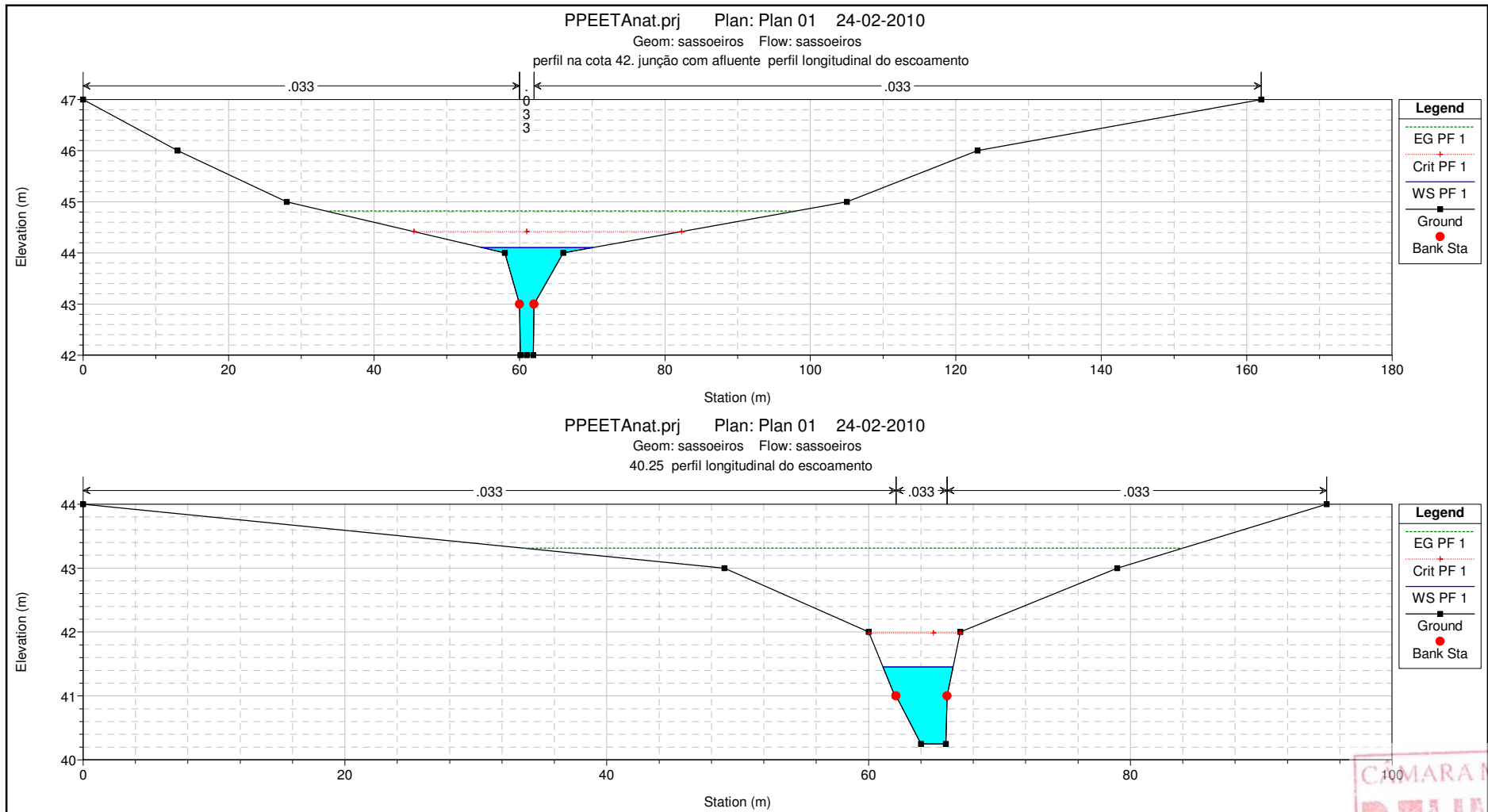


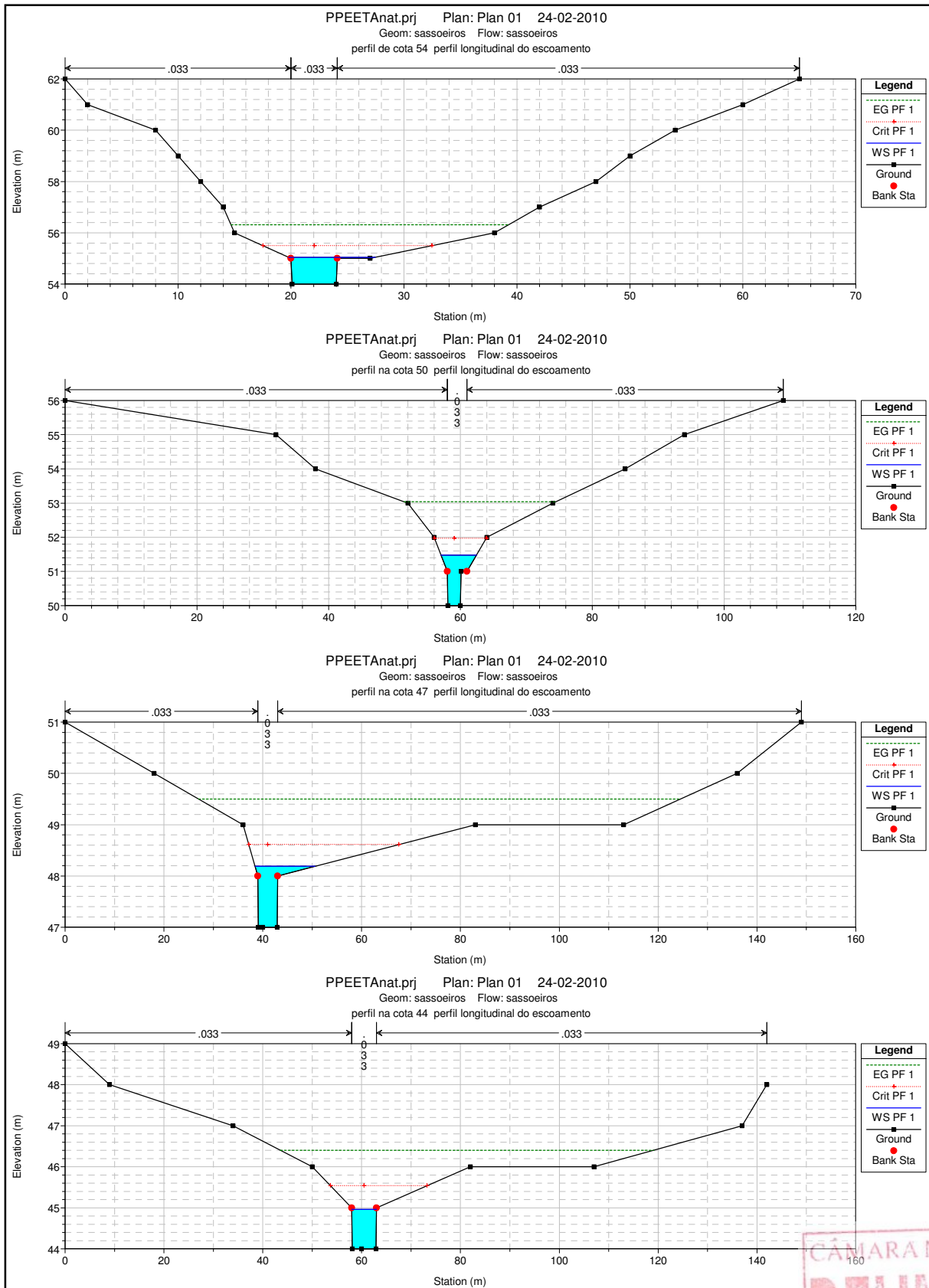
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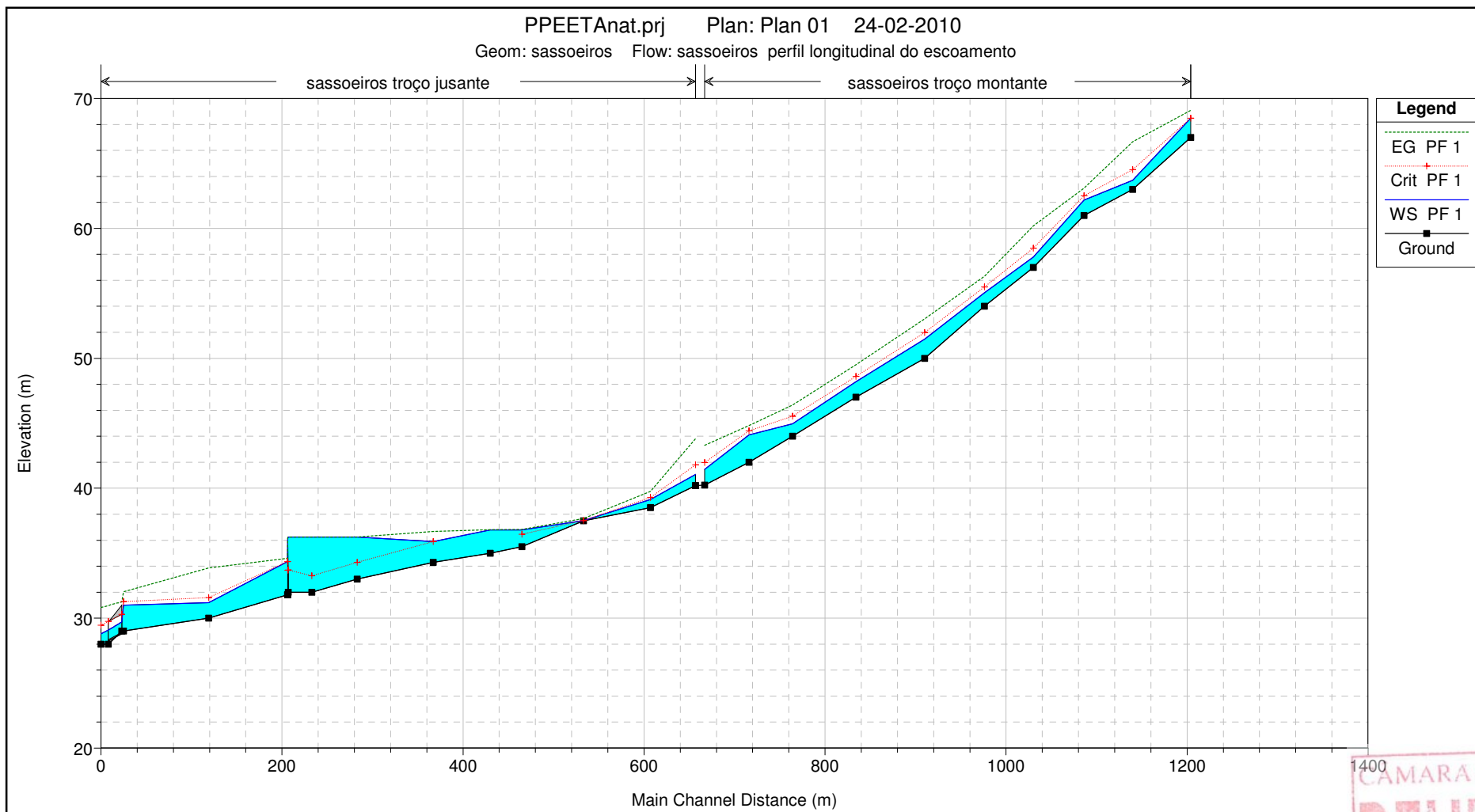






PPEETAnat.prj Plan: Plan 01 24-02-2010

Geom: sassoeiros Flow: sassoeiros perfil longitudinal do escoamento



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