REGIONE PUGLIA
PROVINCIA DI TARANTO
COMUNE DI CASTELLANETA

PROGETTO IMPIANTO AGRI-VOLTAICO E DELLE RELATIVE OPERE DI CONNESSIONE DA REALIZZARE NEL COMUNE DI CASTELLANETA, CONTRADA BORGO PINETO, DI POTENZA PARI A 33.279,48 kWp DENOMINATO "**CASTELLANETA**"

PROGETTO DEFINITIVO

RELAZIONE DI COMPATIBILITA' IDROLOGICA ED IDRAULICA - APPENDICE B

livello prog.	codice pratica	N° elaborato	DATA	SCALA
PD		A.3.2	17.11.2021	

REVISIONI

REV.	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO

RICHIEDENTE E PRODUTTORE

Gamma orione S.r.l.

ENTE

PROGETTAZIONE

Dott. Ing. Carmen Martone

ORDINE DEGLI INGEGNERI DELLA PROVINCIA DI POTENZA - DOTT. ING. MARTONE CARMEN - N° 1212

Il Progettista

Sommario

1 Stato di fatto 2

1.1 Dati tabellari 2

1.2 Risultati grafici – section plot 7

1 Stato di fatto

1.1 Dati tabellari

HEC-RAS Plan: Plan 01 Profile: PF 1

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)
River 7	reach 1	1201	PF 1	0.26	2.41	2.49	2.49	2.52	0.026075	0.82	0.32	4.59
River 7	reach 1	1178	PF 1	0.26	3.03	3.11	3.11	3.15	0.026502	0.79	0.33	5.05
River 7	reach 1	1159	PF 1	0.26	2.91	2.99	2.99	3.03	0.025817	0.84	0.31	4.28
River 7	reach 1	1140	PF 1	0.26	3.10	3.19	3.19	3.22	0.025469	0.86	0.30	4.07
River 7	reach 1	1113	PF 1	0.26	3.08	3.18	3.18	3.22	0.025497	0.87	0.30	3.93
River 7	reach 1	1094	PF 1	0.26	2.89	2.97	2.97	3.00	0.027423	0.83	0.31	4.66
River 7	reach 1	1063	PF 1	0.26	3.00	3.08	3.08	3.12	0.027412	0.78	0.33	5.46
River 7	reach 1	1030	PF 1	0.26	2.67	2.75	2.75	2.78	0.026560	0.80	0.32	4.91
River 7	reach 1	1000	PF 1	0.26	3.14	3.22	3.22	3.26	0.025709	0.85	0.31	4.15
River 7	reach 1	971	PF 1	0.26	3.04	3.12	3.12	3.16	0.025865	0.83	0.31	4.48
River 7	reach 1	940	PF 1	0.26	2.89	2.97	2.97	3.00	0.025858	0.83	0.31	4.47
River 7	reach 1	907	PF 1	0.26	2.92	3.00	3.00	3.03	0.026400	0.80	0.32	4.93
River 7	reach 1	876	PF 1	0.26	2.66	2.74	2.74	2.77	0.026678	0.80	0.32	4.99
River 7	reach 1	838	PF 1	0.26	2.09	2.18	2.18	2.21	0.025295	0.87	0.30	3.82
River 7	reach 1	810	PF 1	0.26	2.61	2.69	2.69	2.73	0.027944	0.85	0.31	4.43
River 7	reach 1	781	PF 1	0.26	2.46	2.54	2.54	2.58	0.025824	0.83	0.31	4.44
River 7	reach 1	745	PF 1	0.26	2.24	2.32	2.32	2.35	0.025654	0.84	0.31	4.27
River 7	reach 1	722	PF 1	0.26	2.24	2.31	2.31	2.35	0.026312	0.82	0.32	4.65
River 7	reach 1	693	PF 1	0.26	2.46	2.52	2.52	2.55	0.029019	0.77	0.34	5.93
River 7	reach 1	654	PF 1	0.26	2.43	2.51	2.51	2.54	0.026080	0.82	0.32	4.62
River 7	reach 1	592	PF 1	0.26	2.60	2.66	2.66	2.69	0.028361	0.73	0.36	6.69
River 7	reach 1	559	PF 1	0.26	2.34	2.42	2.42	2.45	0.026273	0.82	0.32	4.59
River 7	reach 1	529	PF 1	0.26	2.64	2.71	2.71	2.74	0.027430	0.78	0.33	5.36
River 7	reach 1	495	PF 1	0.26	2.50	2.56	2.56	2.59	0.028230	0.74	0.35	6.23
River 7	reach 1	425	PF 1	0.26	2.61	2.68	2.68	2.72	0.026205	0.82	0.32	4.68
River 7	reach 1	379	PF 1	0.26	2.23	2.29	2.29	2.32	0.028664	0.72	0.36	6.81
River 7	reach 1	332	PF 1	0.26	2.23	2.29	2.29	2.33	0.029622	0.79	0.33	5.54
River 7	reach 1	286	PF 1	0.26	2.81	2.87	2.87	2.89	0.028476	0.72	0.36	6.91
River 7	reach 1	243	PF 1	0.26	2.88	2.95	2.95	2.97	0.027950	0.74	0.35	6.22
River 7	reach 1	204	PF 1	0.26	2.68	2.75	2.75	2.78	0.026809	0.80	0.32	4.98
River 7	reach 1	154	PF 1	0.26	2.63	2.69	2.69	2.71	0.029987	0.67	0.39	8.37
River 7	reach 1	105	PF 1	0.26	2.72	2.77	2.77	2.79	0.030620	0.64	0.41	9.68
River 7	reach 1	42	PF 1	0.26	2.63	2.69	2.69	2.71	0.028363	0.72	0.36	6.81
River 6_	reach 6	101	PF 1	0.58	2.44	2.63	2.63	2.68	0.022954	0.99	0.58	5.80
River 6_	reach 6	50	PF 1	0.58	2.10	2.27	2.27	2.32	0.024578	0.95	0.61	6.74
River 6_	reach 6	15	PF 1	0.58	1.94	2.15	2.15	2.21	0.022834	1.06	0.55	4.85
River 5_	reach 5	992	PF 1	0.32	2.86	3.01	3.01	3.05	0.025018	0.86	0.37	4.87
River 5_	reach 5	872	PF 1	0.32	2.80	2.93	2.93	2.97	0.025006	0.86	0.37	4.85
River 5_	reach 5	811	PF 1	0.32	2.90	3.01	3.01	3.04	0.026104	0.81	0.40	5.91
River 5_	reach 5	773	PF 1	0.32	3.01	3.11	3.11	3.14	0.026948	0.78	0.41	6.56
River 5_	reach 5	733	PF 1	0.32	2.70	2.80	2.80	2.83	0.028194	0.72	0.44	8.33
River 5_	reach 5	671	PF 1	0.32	2.33	2.50	2.50	2.54	0.024621	0.95	0.34	3.79
River 5_	reach 5	631	PF 1	0.32	2.03	2.24	2.24	2.30	0.023548	1.04	0.31	2.87
River 5_	reach 5	584	PF 1	0.32	2.59	2.73	2.73	2.76	0.025394	0.84	0.38	5.23

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

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)
River 5_	reach 5	535	PF 1	0.32	2.98	3.13	3.13	3.16	0.025345	0.84	0.38	5.18
River 5_	reach 5	501	PF 1	0.32	3.05	3.12	3.12	3.16	0.026453	0.82	0.39	5.76
River 5_	reach 5	468	PF 1	0.32	2.51	2.59	2.59	2.62	0.026107	0.81	0.39	5.79
River 5_	reach 5	443	PF 1	0.32	2.21	2.29	2.29	2.31	0.027927	0.73	0.44	7.91
River 5_	reach 5	309	PF 1	0.32	1.99	2.18	2.18	2.23	0.024248	0.99	0.32	3.37
River 5_	reach 5	258	PF 1	0.32	2.35	2.52	2.52	2.58	0.023157	1.03	0.31	2.92
River 5_	reach 5	194	PF 1	0.32	2.04	2.26	2.26	2.32	0.023375	1.06	0.30	2.73
River 5_	reach 5	159	PF 1	0.32	2.05	2.26	2.26	2.32	0.023082	1.02	0.31	2.94
River 5_	reach 5	61	PF 1	0.32	2.72	2.90	2.90	2.94	0.025276	0.97	0.33	3.62
River 3	reach 3	900	PF 1	6.72	5.43	5.90	5.90	6.04	0.016985	1.64	4.10	15.25
River 3	reach 3	809	PF 1	6.72	5.74	6.15	6.15	6.24	0.020081	1.34	5.01	28.65
River 3	reach 3	716	PF 1	6.72	5.92	6.14	6.14	6.22	0.020387	1.23	5.46	35.90
River 3	reach 3	621	PF 1	6.72	5.80	6.21	6.21	6.30	0.020080	1.35	4.97	28.07
River 3	reach 3	543	PF 1	6.72	6.05	6.37	6.37	6.47	0.018715	1.40	4.80	24.42
River 3	reach 3	449	PF 1	6.72	5.25	5.55	5.55	5.66	0.017769	1.49	4.56	20.71
River 3	reach 3	362	PF 1	6.72	6.83	7.02	7.02	7.09	0.022217	1.09	6.15	51.58
River 3	reach 3	264	PF 1	6.72	6.78	7.00	7.00	7.06	0.021669	1.13	5.94	46.53
River 3	reach 3	159	PF 1	6.72	6.72	6.98	6.98	7.05	0.021365	1.18	5.72	41.78
River 3	reach 3	75	PF 1	6.72	6.41	6.84	6.84	6.92	0.021355	1.24	5.40	36.26
River 3	reach 3	15	PF 1	6.72	6.25	6.64	6.64	6.75	0.018972	1.43	4.71	23.49
River 2	reach 2	280	PF 1	5.60	38.54	38.80	38.80	38.88	0.020133	1.27	4.42	27.67
River 2	reach 2	212	PF 1	5.60	39.14	39.29	39.29	39.34	0.023193	1.01	5.54	54.11
River 2	reach 2	123	PF 1	5.60	37.92	38.35	38.35	38.44	0.020441	1.28	4.39	27.44
River 2	reach 2	49	PF 1	5.60	38.91	39.15	39.15	39.23	0.020229	1.24	4.52	29.36
River 2	reach 2	11	PF 1	5.60	39.31	39.47	39.47	39.52	0.024203	0.96	5.86	64.36
River 1	reach 1	310	PF 1	1.87	48.78	49.10	49.10	49.19	0.019262	1.36	1.37	7.42
River 1	reach 1	246	PF 1	1.87	51.11	51.18	51.18	51.21	0.029459	0.69	2.72	56.53
River 1	reach 1	211	PF 1	1.87	50.44	50.62	50.62	50.66	0.023887	0.93	2.02	22.85
River 1	reach 1	148	PF 1	1.87	49.95	50.14	50.14	50.17	0.027309	0.86	2.18	30.58
River 1	reach 1	105	PF 1	1.87	49.05	49.19	49.19	49.24	0.025595	0.94	1.98	23.12
River 1	reach 1	45	PF 1	1.87	47.38	47.78	47.78	47.89	0.019571	1.45	1.29	6.35
River 1	reach 1	7	PF 1	1.87	48.04	48.23	48.23	48.29	0.022401	1.07	1.74	15.19

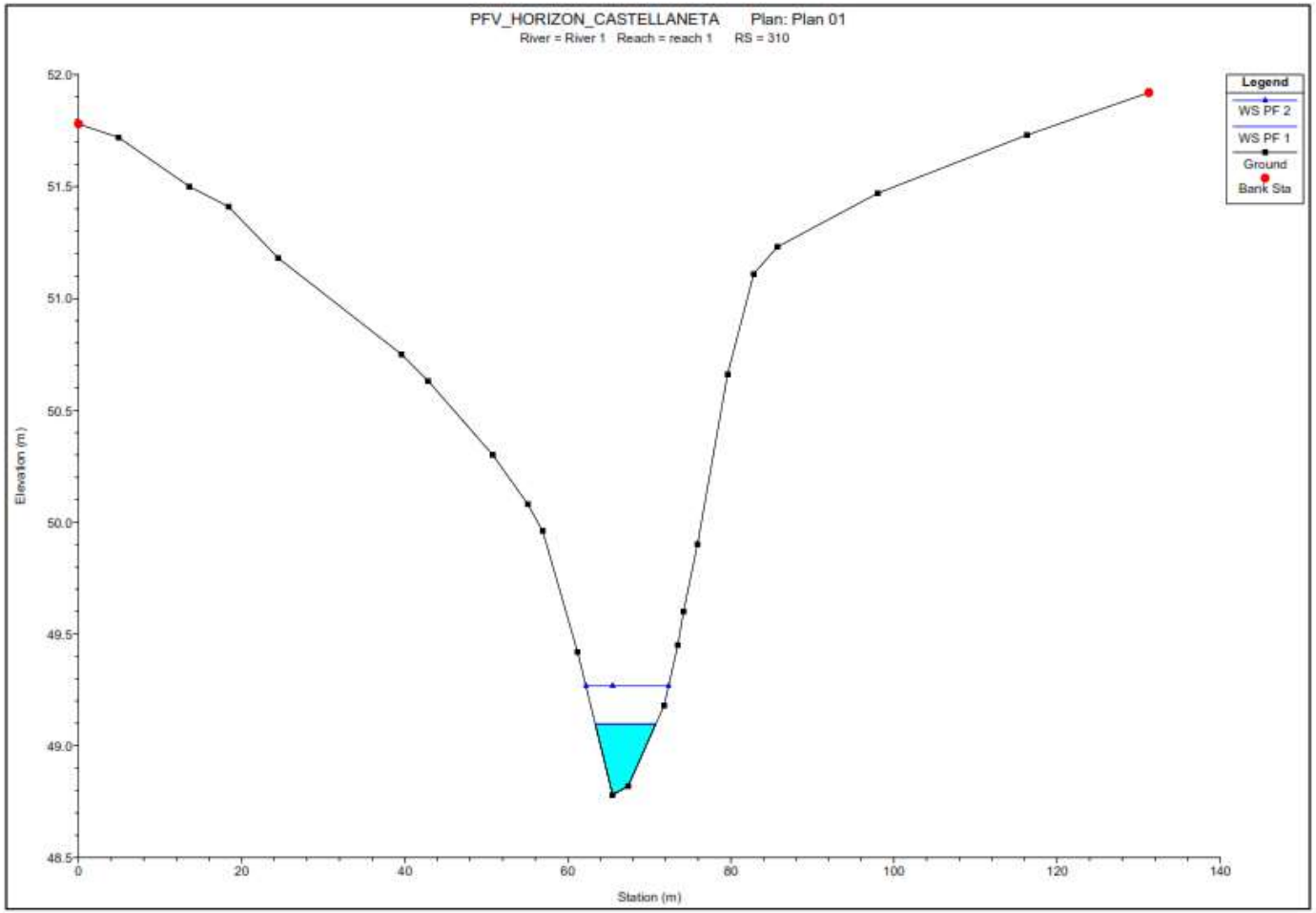
HEC-RAS Plan: Plan 01 Profile: PF 2

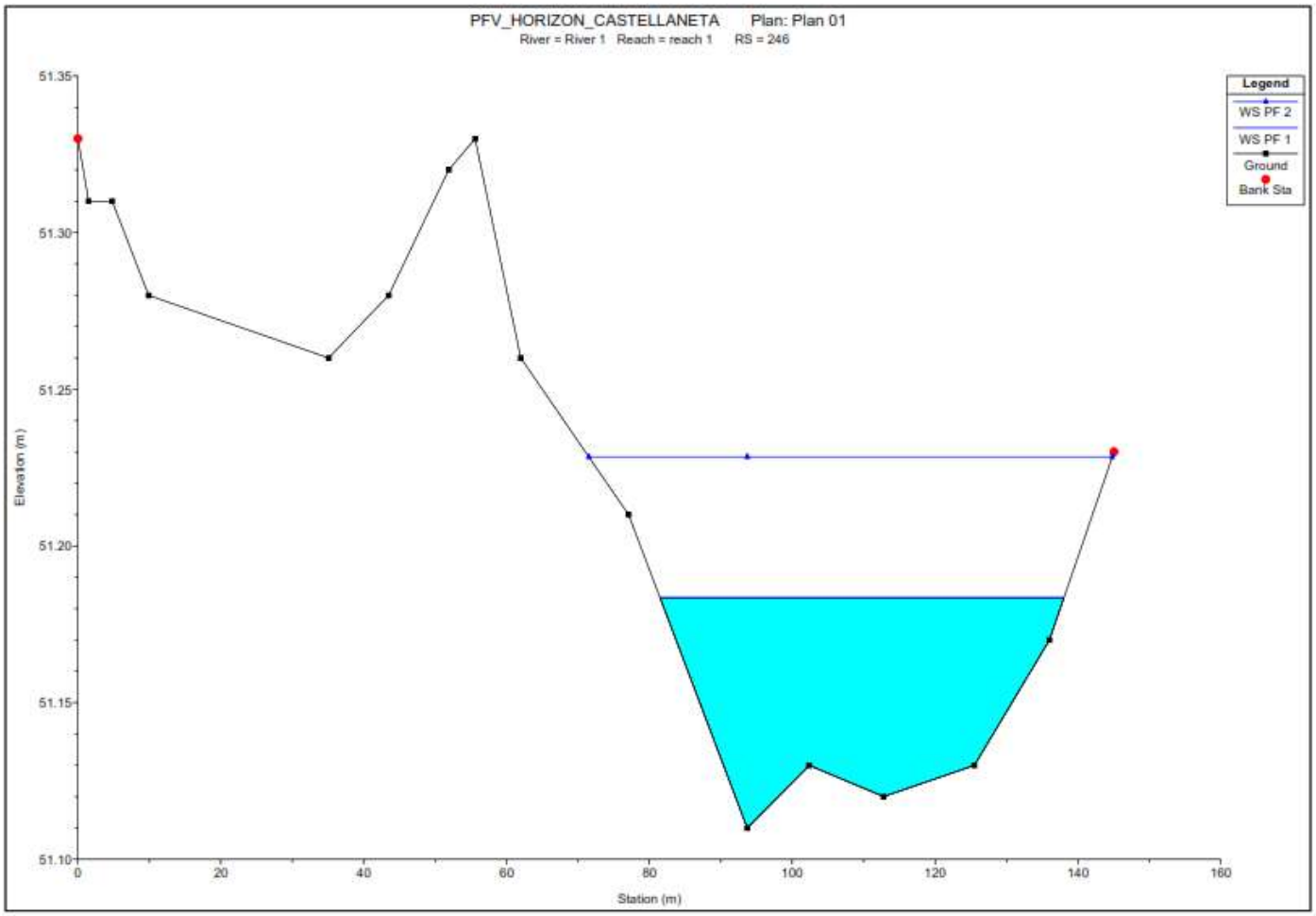
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)
River 7	reach 1	1201	PF 2	0.72	2.41	2.55	2.55	2.62	0.021976	1.10	0.66	5.39
River 7	reach 1	1178	PF 2	0.72	3.03	3.18	3.18	3.23	0.023060	1.02	0.71	6.78
River 7	reach 1	1159	PF 2	0.72	2.91	3.06	3.06	3.13	0.021619	1.13	0.64	4.99
River 7	reach 1	1140	PF 2	0.72	3.10	3.26	3.26	3.32	0.021406	1.13	0.64	4.94
River 7	reach 1	1113	PF 2	0.72	3.08	3.26	3.26	3.32	0.022025	1.10	0.65	5.34
River 7	reach 1	1094	PF 2	0.72	2.89	3.04	3.04	3.10	0.022335	1.07	0.67	5.86
River 7	reach 1	1063	PF 2	0.72	3.00	3.15	3.15	3.19	0.023209	0.97	0.74	7.66
River 7	reach 1	1030	PF 2	0.72	2.67	2.81	2.81	2.87	0.022033	1.05	0.68	5.99
River 7	reach 1	1000	PF 2	0.72	3.14	3.29	3.29	3.36	0.021404	1.14	0.63	4.85
River 7	reach 1	971	PF 2	0.72	3.04	3.19	3.19	3.25	0.021799	1.08	0.66	5.56
River 7	reach 1	940	PF 2	0.72	2.89	3.04	3.04	3.10	0.021891	1.10	0.66	5.39
River 7	reach 1	907	PF 2	0.72	2.92	3.06	3.06	3.12	0.022343	1.06	0.68	5.93
River 7	reach 1	876	PF 2	0.72	2.66	2.80	2.80	2.86	0.022640	1.05	0.69	6.25
River 7	reach 1	838	PF 2	0.72	2.09	2.25	2.25	2.32	0.021070	1.17	0.62	4.45
River 7	reach 1	810	PF 2	0.72	2.61	2.76	2.76	2.83	0.021922	1.10	0.66	5.40
River 7	reach 1	781	PF 2	0.72	2.46	2.61	2.61	2.67	0.021912	1.10	0.66	5.39
River 7	reach 1	745	PF 2	0.72	2.24	2.39	2.39	2.46	0.021215	1.13	0.64	4.89
River 7	reach 1	722	PF 2	0.72	2.24	2.38	2.38	2.44	0.021948	1.10	0.66	5.38
River 7	reach 1	693	PF 2	0.72	2.46	2.58	2.58	2.63	0.022614	1.02	0.70	6.61
River 7	reach 1	654	PF 2	0.72	2.43	2.58	2.58	2.64	0.022174	1.08	0.67	5.66
River 7	reach 1	592	PF 2	0.72	2.60	2.71	2.71	2.76	0.023831	0.96	0.75	7.97
River 7	reach 1	559	PF 2	0.72	2.34	2.49	2.49	2.55	0.021365	1.12	0.65	5.06
River 7	reach 1	529	PF 2	0.72	2.64	2.77	2.77	2.82	0.022820	1.07	0.68	5.99
River 7	reach 1	495	PF 2	0.72	2.50	2.62	2.62	2.67	0.022681	1.02	0.70	6.62
River 7	reach 1	425	PF 2	0.72	2.61	2.75	2.75	2.81	0.021773	1.12	0.64	5.10
River 7	reach 1	379	PF 2	0.72	2.23	2.34	2.34	2.39	0.023592	0.98	0.73	7.57
River 7	reach 1	332	PF 2	0.72	2.23	2.36	2.36	2.41	0.022278	1.04	0.69	6.29
River 7	reach 1	286	PF 2	0.72	2.81	2.92	2.92	2.97	0.023504	0.95	0.76	8.13
River 7	reach 1	243	PF 2	0.72	2.88	3.00	3.00	3.05	0.023579	0.97	0.74	7.71
River 7	reach 1	204	PF 2	0.72	2.68	2.81	2.81	2.87	0.022140	1.08	0.67	5.68
River 7	reach 1	154	PF 2	0.72	2.63	2.73	2.73	2.77	0.024180	0.92	0.78	8.96
River 7	reach 1	105	PF 2	0.72	2.72	2.81	2.81	2.84	0.025181	0.86	0.84	11.05
River 7	reach 1	42	PF 2	0.72	2.63	2.74	2.74	2.79	0.023082	0.98	0.73	7.42
River 6_	reach 6	101	PF 2	1.35	2.44	2.71	2.71	2.78	0.020691	1.18	1.14	8.11
River 6_	reach 6	50	PF 2	1.35	2.10	2.34	2.34	2.42	0.020801	1.21	1.12	7.70
River 6_	reach 6	15	PF 2	1.35	1.94	2.24	2.24	2.32	0.020427	1.26	1.07	6.78
River 5_	reach 5	992	PF 2	0.63	2.86	3.06	3.06	3.11	0.023649	1.01	0.62	6.17
River 5_	reach 5	872	PF 2	0.63	2.80	2.98	2.98	3.03	0.022719	1.01	0.63	6.04
River 5_	reach 5	811	PF 2	0.63	2.90	3.05	3.05	3.10	0.024227	0.95	0.66	7.26
River 5_	reach 5	773	PF 2	0.63	3.01	3.15	3.15	3.19	0.024538	0.90	0.70	8.41
River 5_	reach 5	733	PF 2	0.63	2.70	2.83	2.83	2.87	0.026212	0.86	0.73	9.92
River 5_	reach 5	671	PF 2	0.63	2.33	2.55	2.55	2.61	0.022420	1.09	0.58	4.93
River 5_	reach 5	631	PF 2	0.63	2.03	2.31	2.31	2.38	0.021394	1.19	0.53	3.77
River 5	reach 5	584	PF 2	0.63	2.59	2.77	2.77	2.82	0.023869	0.98	0.64	6.70

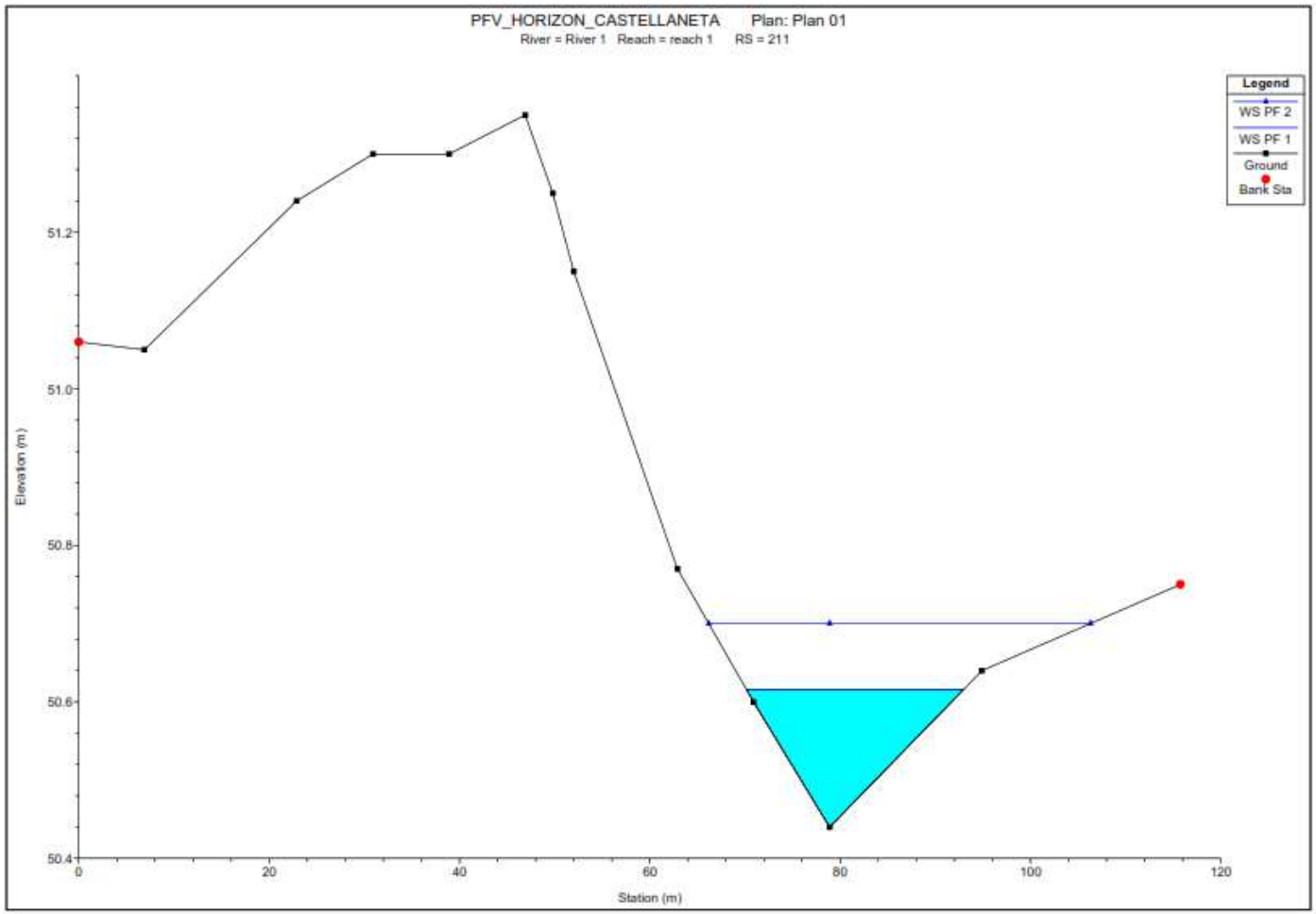
HEC-RAS Plan: Plan 01 Profile: PF 2 (Continued)

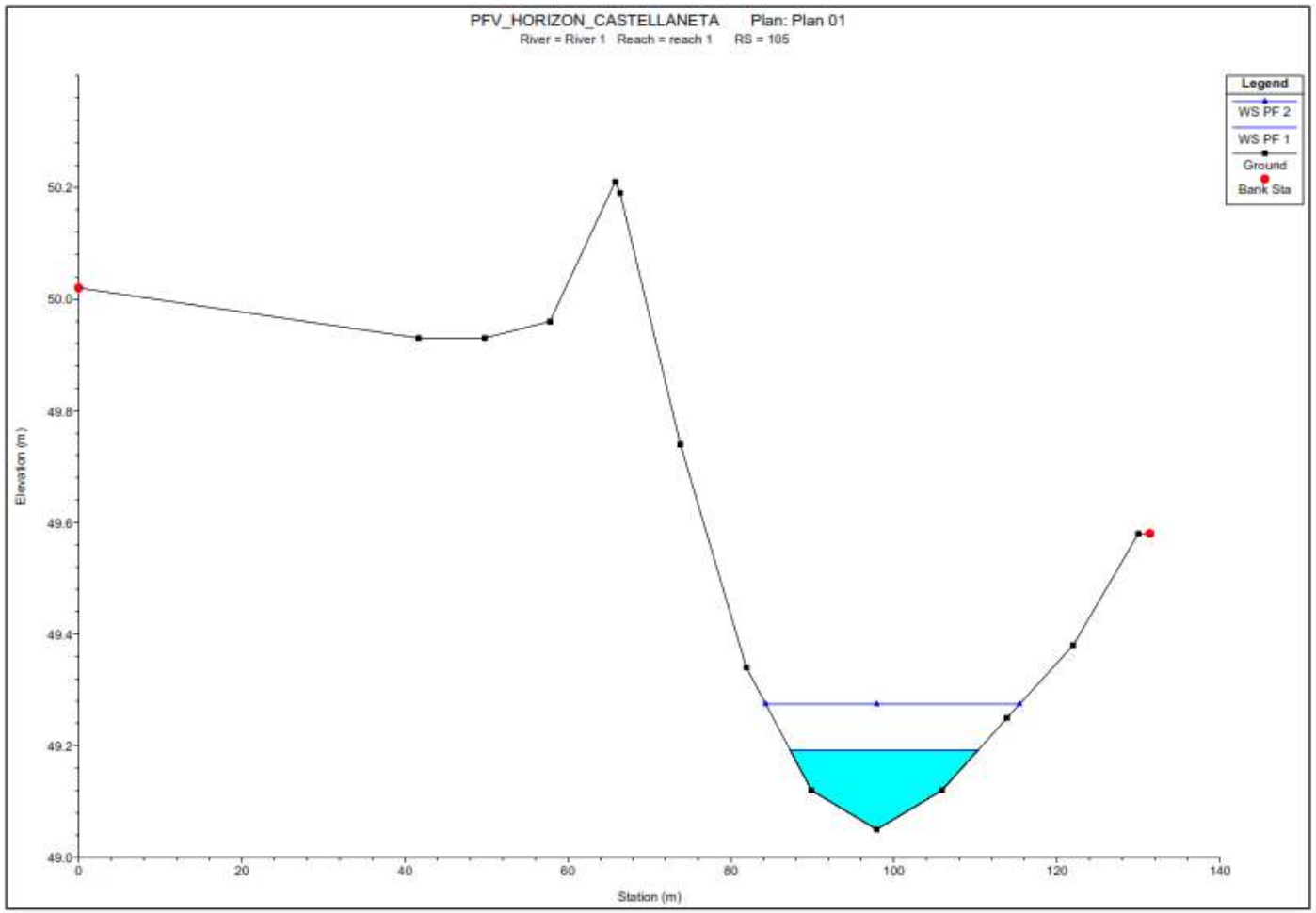
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)
River 5_	reach 5	535	PF 2	0.63	2.98	3.17	3.17	3.22	0.024941	0.99	0.63	6.69
River 5_	reach 5	501	PF 2	0.63	3.05	3.16	3.16	3.21	0.023269	1.00	0.63	6.29
River 5_	reach 5	468	PF 2	0.63	2.51	2.63	2.63	2.68	0.023269	1.00	0.63	6.19
River 5_	reach 5	443	PF 2	0.63	2.21	2.32	2.32	2.36	0.025835	0.92	0.68	8.21
River 5_	reach 5	309	PF 2	0.63	1.99	2.24	2.24	2.31	0.022159	1.13	0.56	4.42
River 5_	reach 5	258	PF 2	0.63	2.35	2.59	2.59	2.66	0.021137	1.20	0.52	3.64
River 5_	reach 5	194	PF 2	0.63	2.04	2.33	2.33	2.41	0.021416	1.21	0.52	3.58
River 5_	reach 5	159	PF 2	0.63	2.05	2.33	2.33	2.40	0.021593	1.18	0.53	3.84
River 5_	reach 5	61	PF 2	0.63	2.72	2.95	2.95	3.02	0.022026	1.11	0.57	4.58
River 3	reach 3	900	PF 2	15.62	5.43	6.11	6.11	6.31	0.015123	1.98	7.87	20.19
River 3	reach 3	809	PF 2	15.62	5.74	6.28	6.28	6.42	0.017416	1.63	9.59	36.82
River 3	reach 3	716	PF 2	15.62	5.92	6.26	6.26	6.39	0.017229	1.57	9.93	39.93
River 3	reach 3	621	PF 2	15.62	5.80	6.35	6.35	6.50	0.016571	1.71	9.11	31.20
River 3	reach 3	543	PF 2	15.62	6.05	6.53	6.53	6.67	0.016610	1.66	9.39	33.72
River 3	reach 3	449	PF 2	15.62	5.25	5.72	5.72	5.91	0.015031	1.94	8.25	22.82
River 3	reach 3	362	PF 2	15.62	6.83	7.12	7.12	7.21	0.019418	1.33	11.73	66.25
River 3	reach 3	264	PF 2	15.62	6.78	7.10	7.10	7.19	0.019142	1.37	11.37	60.61
River 3	reach 3	159	PF 2	15.62	6.72	7.09	7.09	7.19	0.018853	1.40	11.17	57.31
River 3	reach 3	75	PF 2	15.62	6.41	6.96	6.96	7.07	0.018907	1.43	10.89	53.89
River 3	reach 3	15	PF 2	15.62	6.25	6.80	6.80	6.96	0.015726	1.80	8.69	26.65
River 2	reach 2	280	PF 2	13.02	38.54	38.93	38.93	39.06	0.016793	1.63	7.99	29.86
River 2	reach 2	212	PF 2	13.02	39.14	39.37	39.37	39.45	0.019759	1.25	10.43	65.68
River 2	reach 2	123	PF 2	13.02	37.92	38.48	38.48	38.59	0.018749	1.50	8.71	40.20
River 2	reach 2	49	PF 2	13.02	38.91	39.27	39.27	39.39	0.017891	1.50	8.65	38.24
River 2	reach 2	11	PF 2	13.02	39.31	39.54	39.54	39.62	0.020518	1.22	10.66	71.57
River 1	reach 1	310	PF 2	4.87	48.78	49.27	49.27	49.41	0.016757	1.69	2.88	10.12
River 1	reach 1	246	PF 2	4.87	51.11	51.23	51.23	51.27	0.025389	0.87	5.60	73.31
River 1	reach 1	211	PF 2	4.87	50.44	50.70	50.70	50.76	0.022184	1.06	4.58	40.12
River 1	reach 1	148	PF 2	4.87	49.95	50.20	50.20	50.26	0.023350	1.07	4.55	40.76
River 1	reach 1	105	PF 2	4.87	49.05	49.27	49.27	49.34	0.021214	1.16	4.20	31.14
River 1	reach 1	45	PF 2	4.87	47.38	47.96	47.97	48.14	0.018621	1.86	2.62	8.62
River 1	reach 1	7	PF 2	4.87	48.04	48.33	48.33	48.43	0.019025	1.34	3.63	19.99

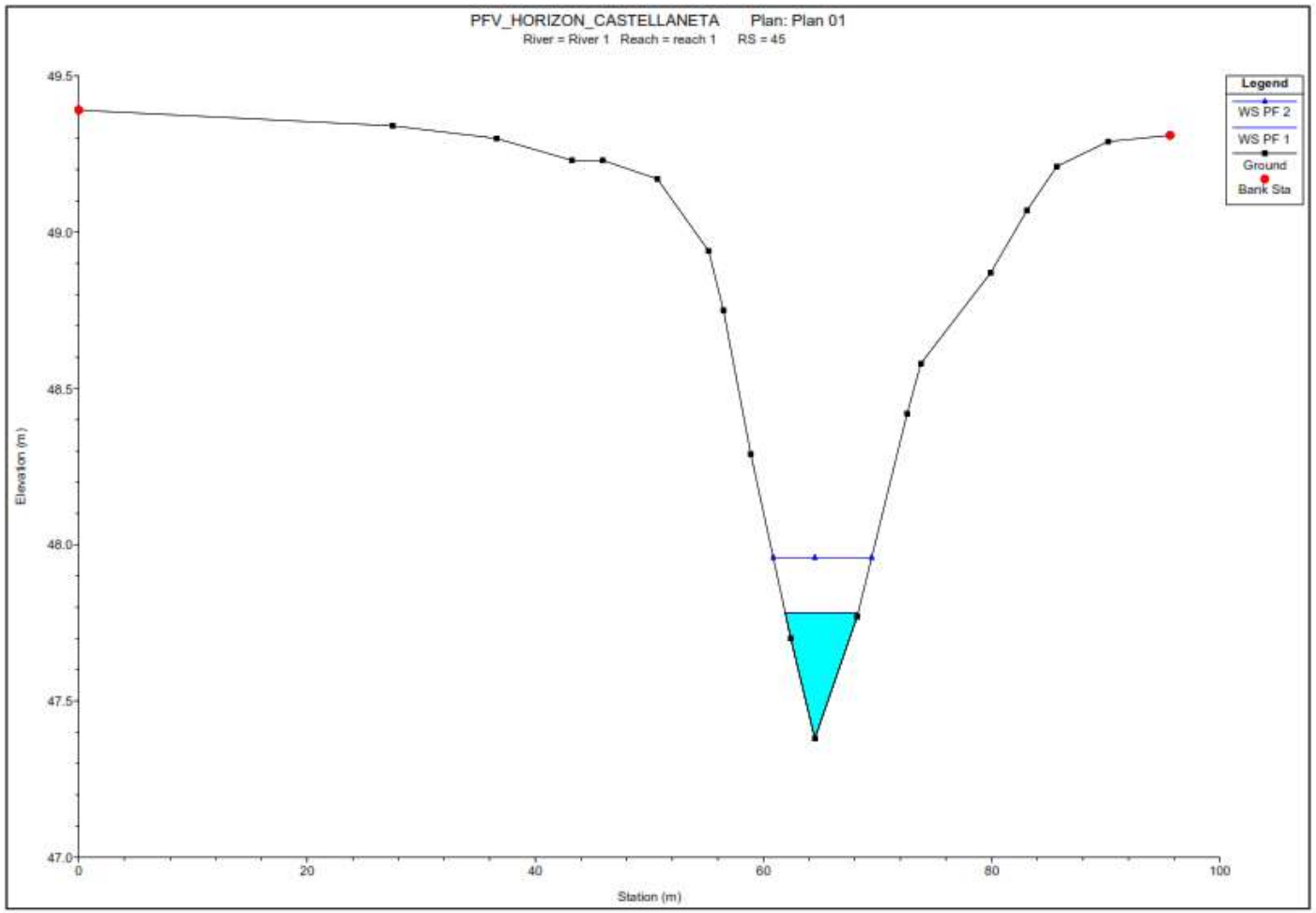
1.2 Risultati grafici – section plot

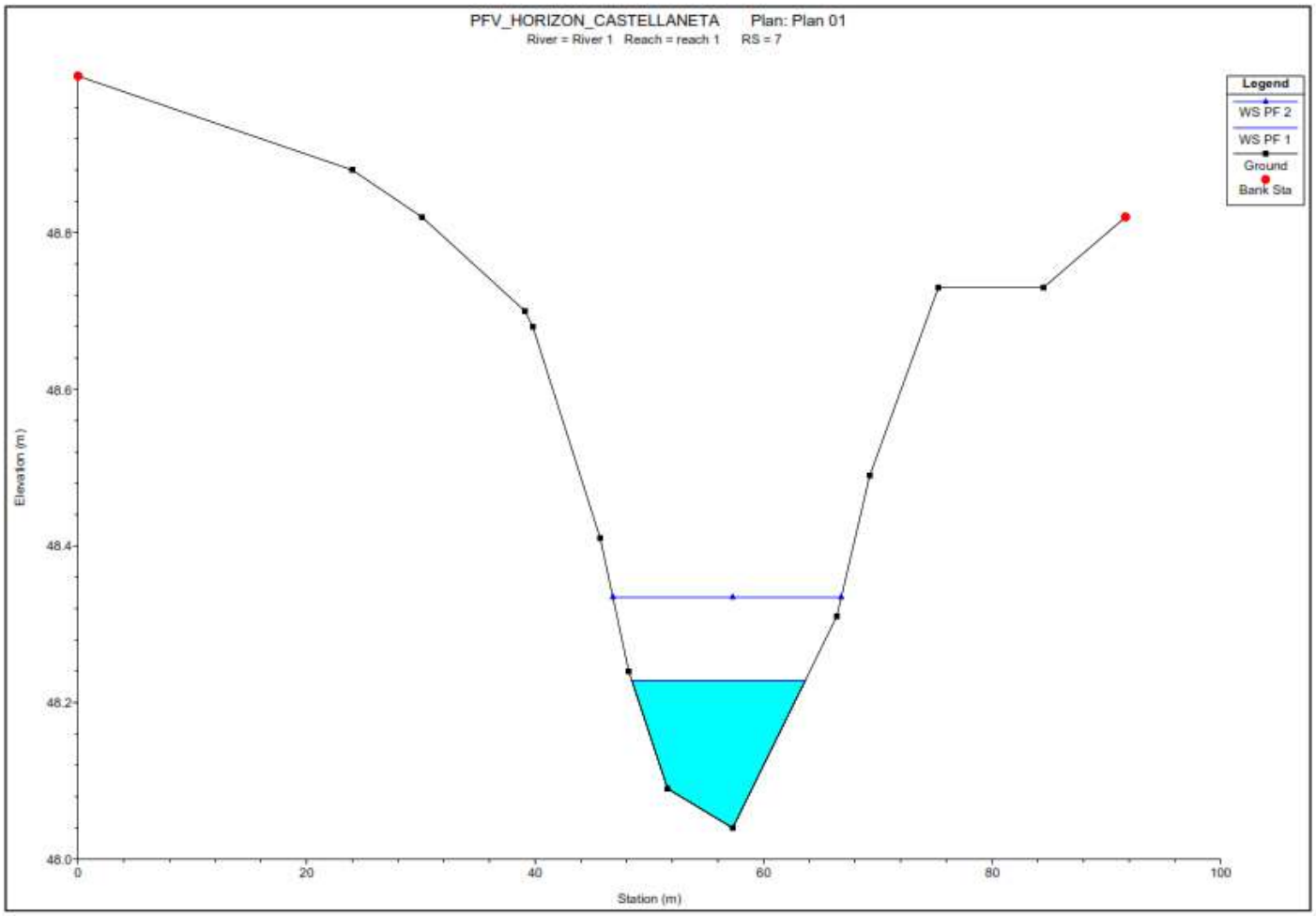


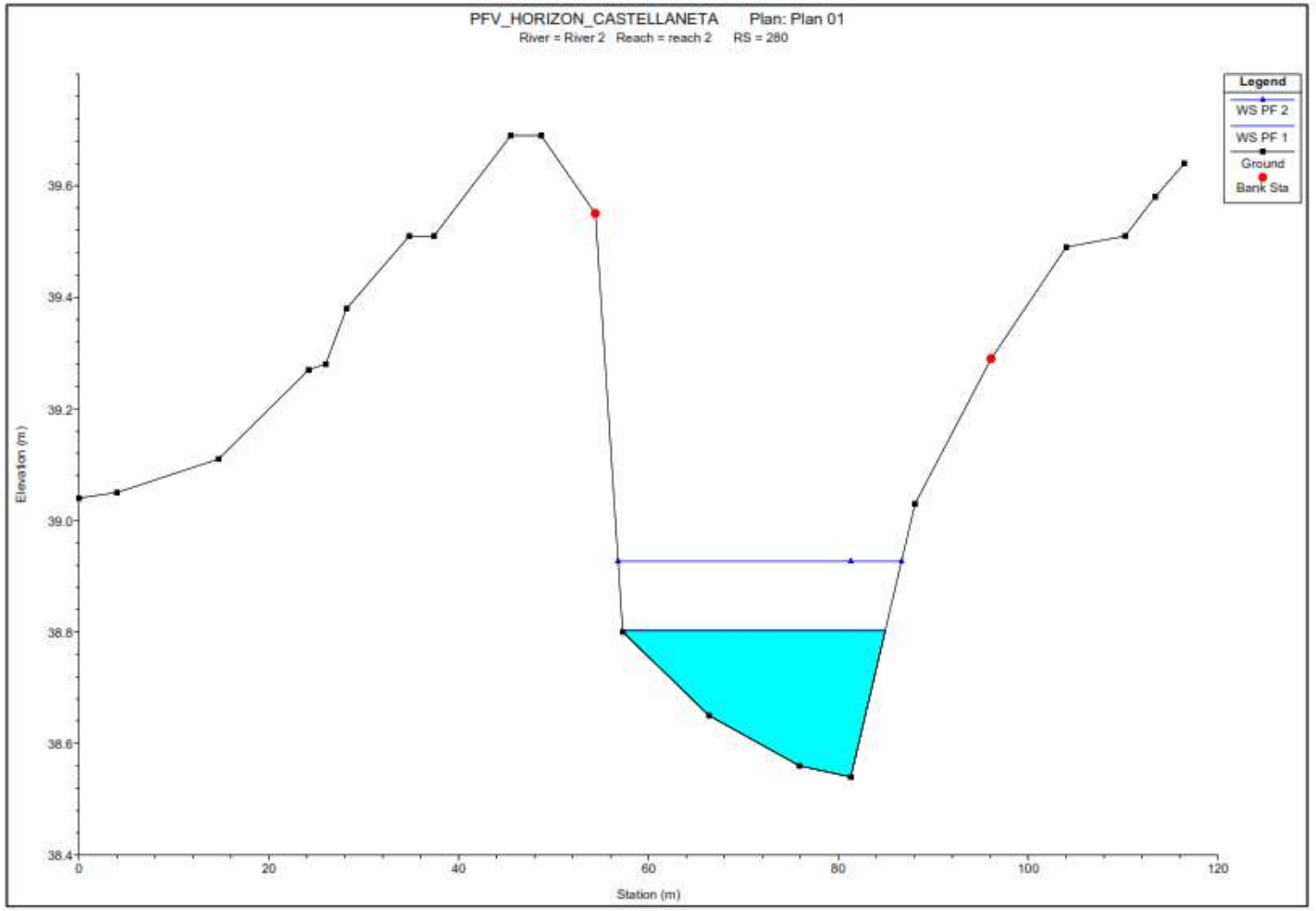

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 1 Reach = reach 1 RS = 246
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
51.35
51.30
51.25
51.20
51.15
51.10
0
20
40
60
80
100
120
140
160

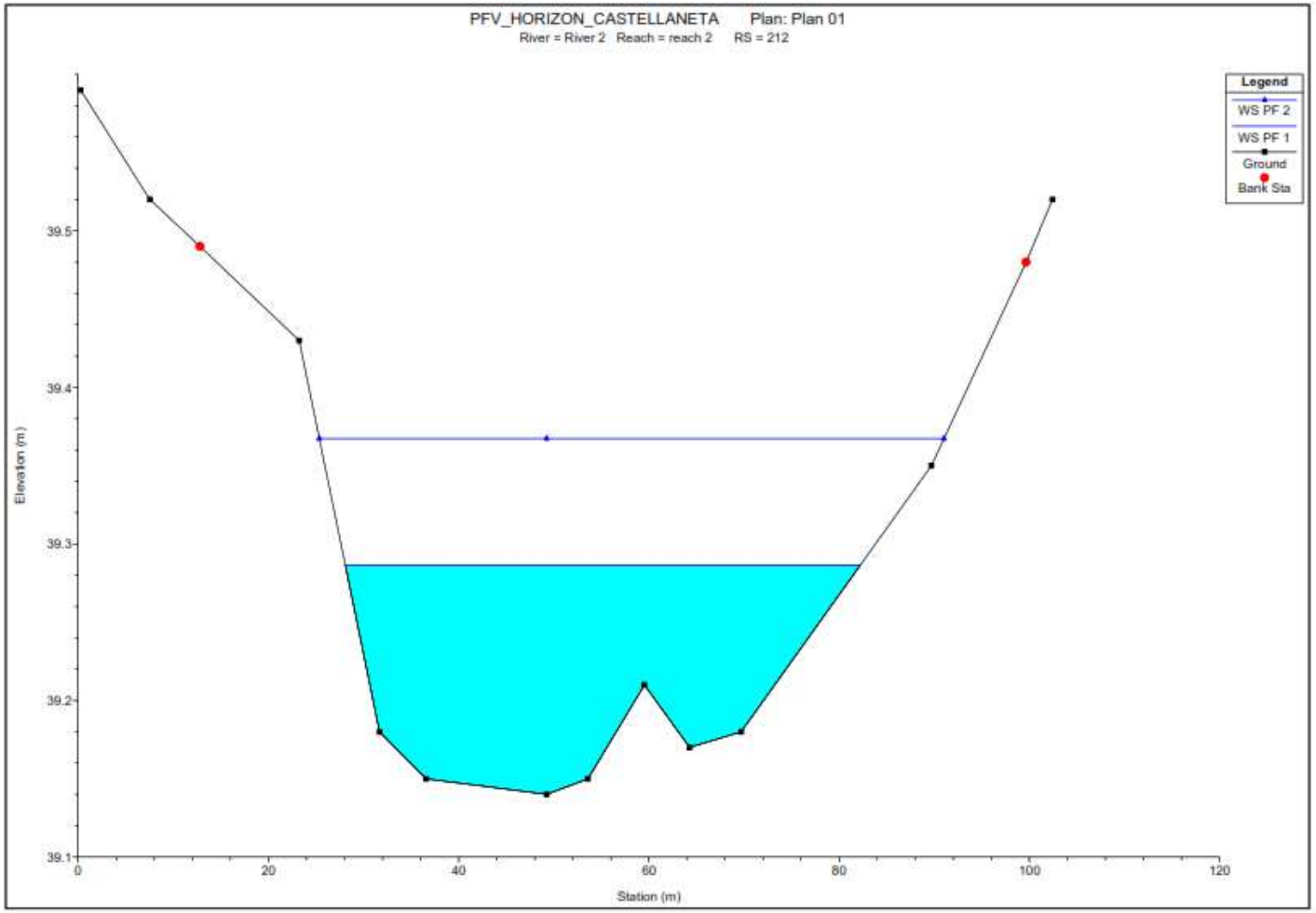

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 1 Reach = reach 1 RS = 211
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
51.2
51.0
50.8
50.6
50.4
0
20
40
60
80
100
120

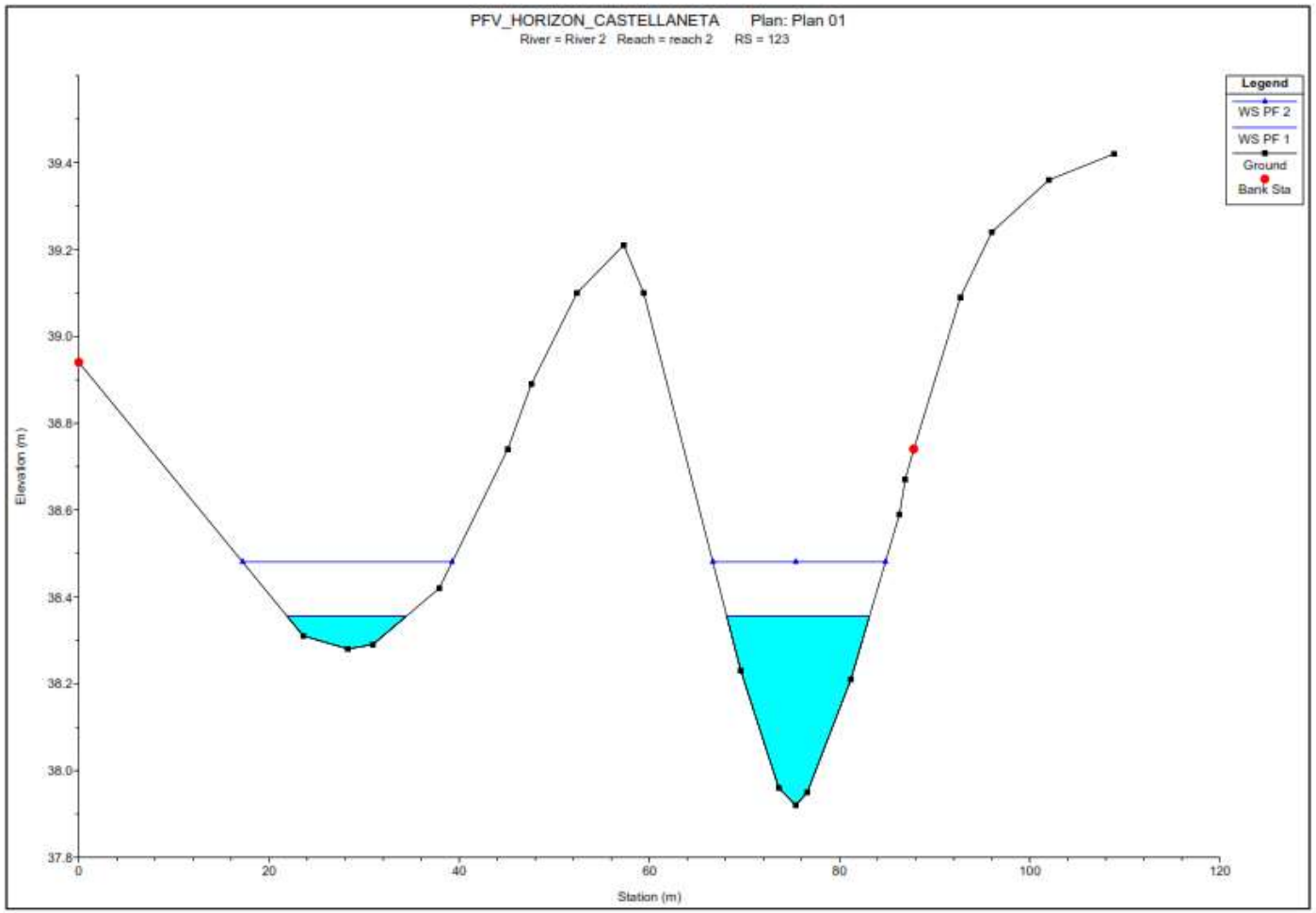

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 1 Reach = reach 1 RS = 105
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
50.2
50.0
49.8
49.6
49.4
49.2
49.0
0
20
40
60
80
100
120
140

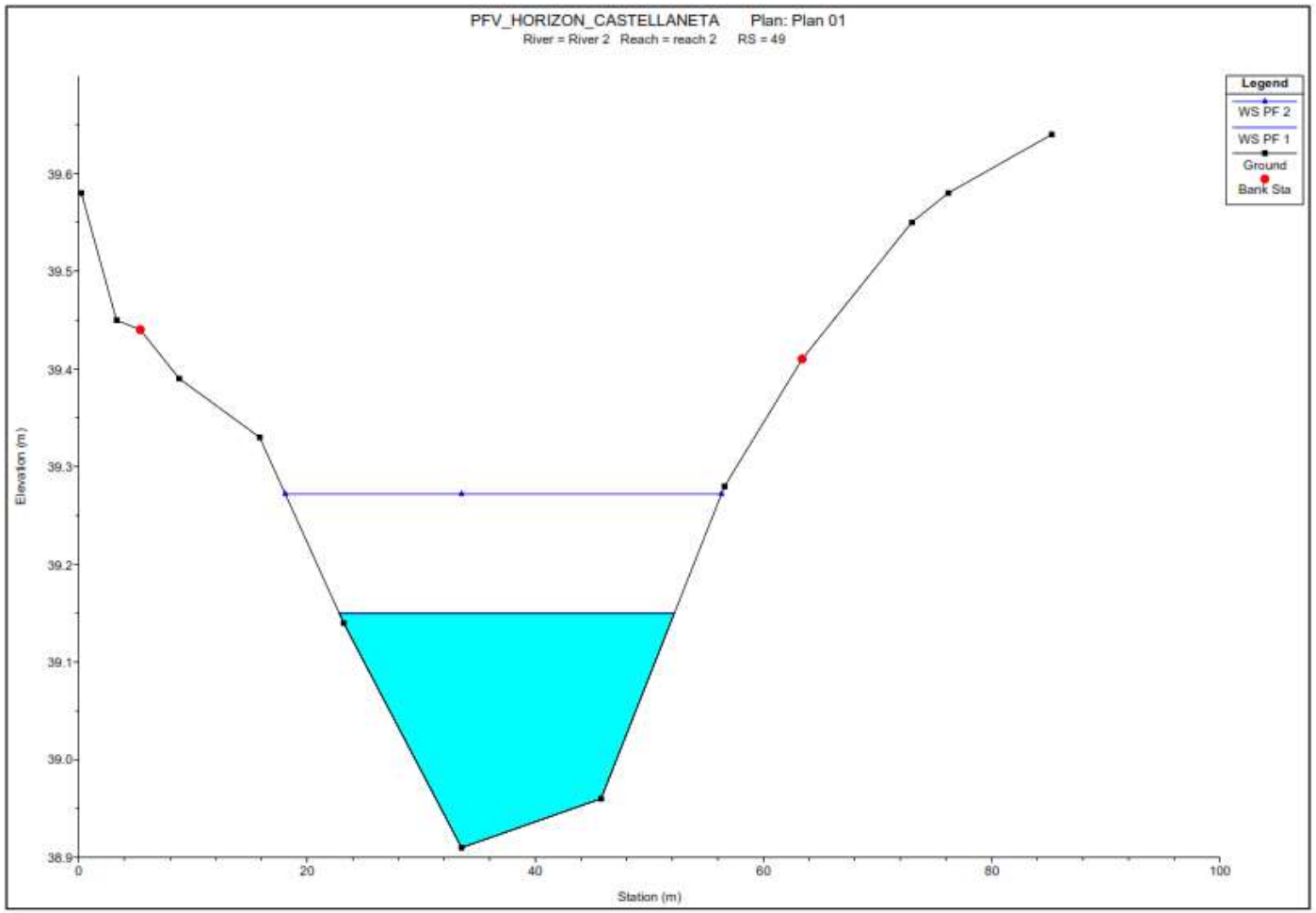

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 1 Reach = reach 1 RS = 45
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
49.5
49.0
48.5
48.0
47.5
47.0
0
20
40
60
80
100

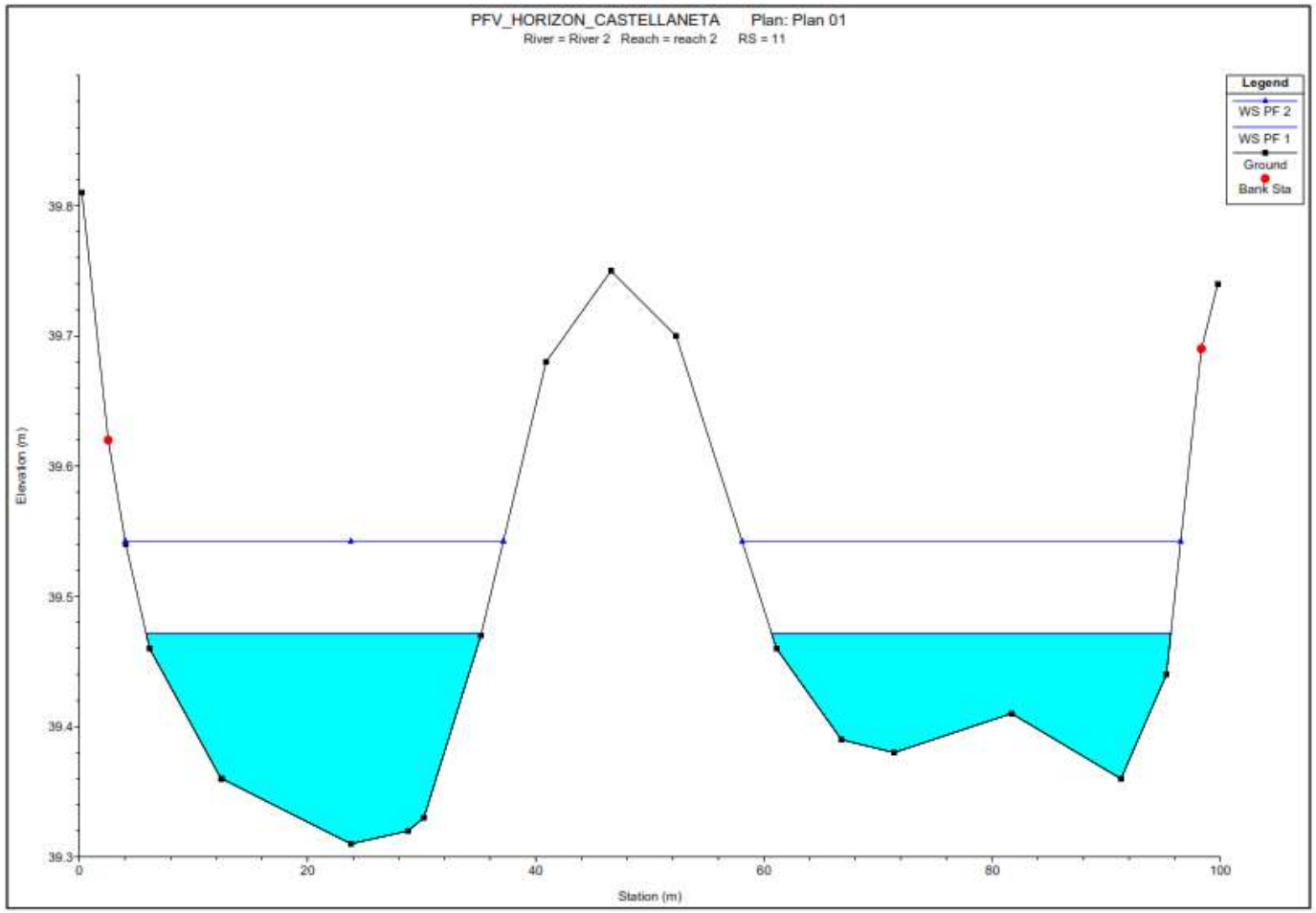

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 1 Reach = reach 1 RS = 7
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
48.8
48.6
48.4
48.2
48.0
0
20
40
60
80
100
Station (m)

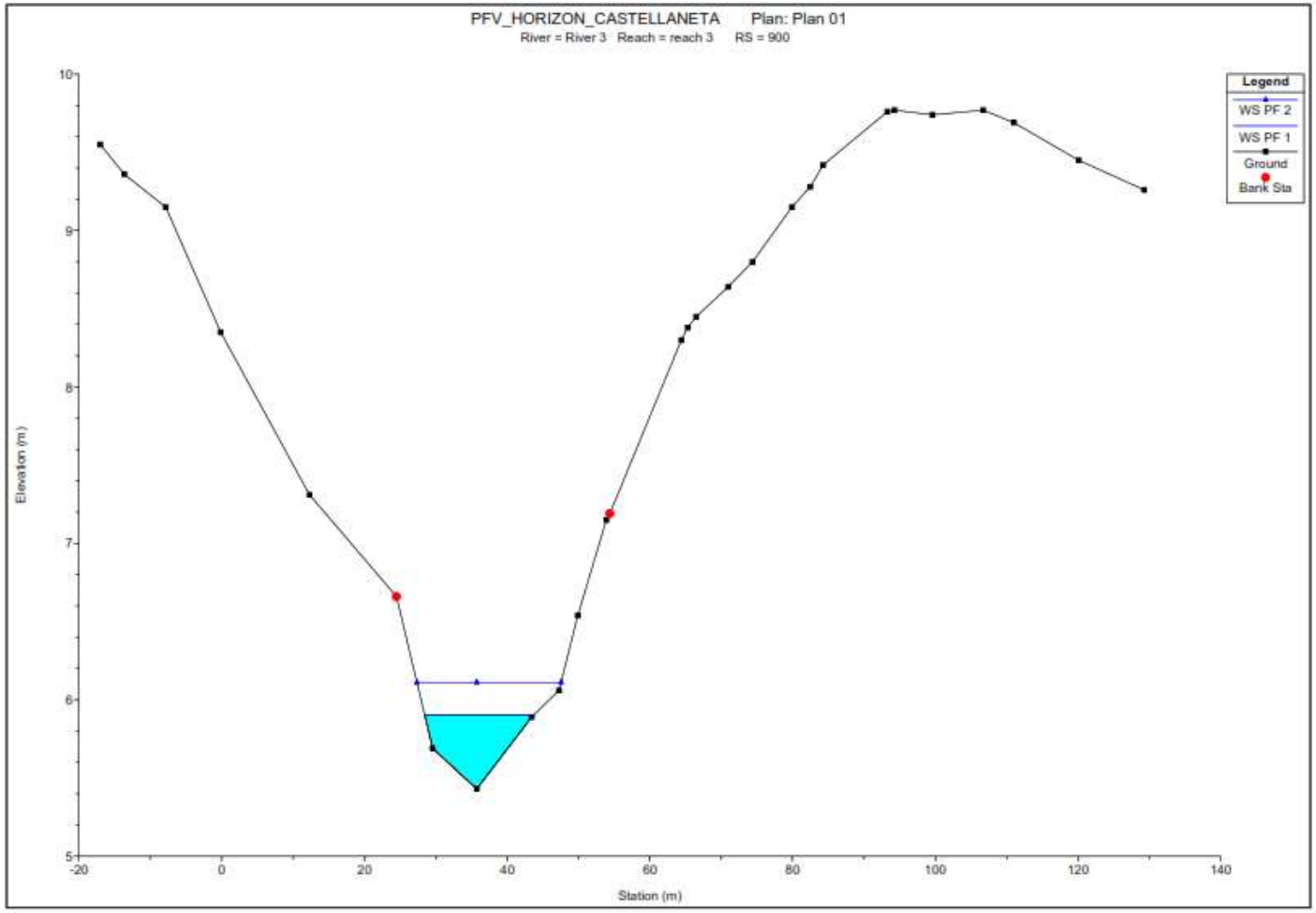

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 2 Reach = reach 2 RS = 280
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
39.6
39.4
39.2
39.0
38.8
38.6
38.4
0
20
40
60
80
100
120
Station (m)

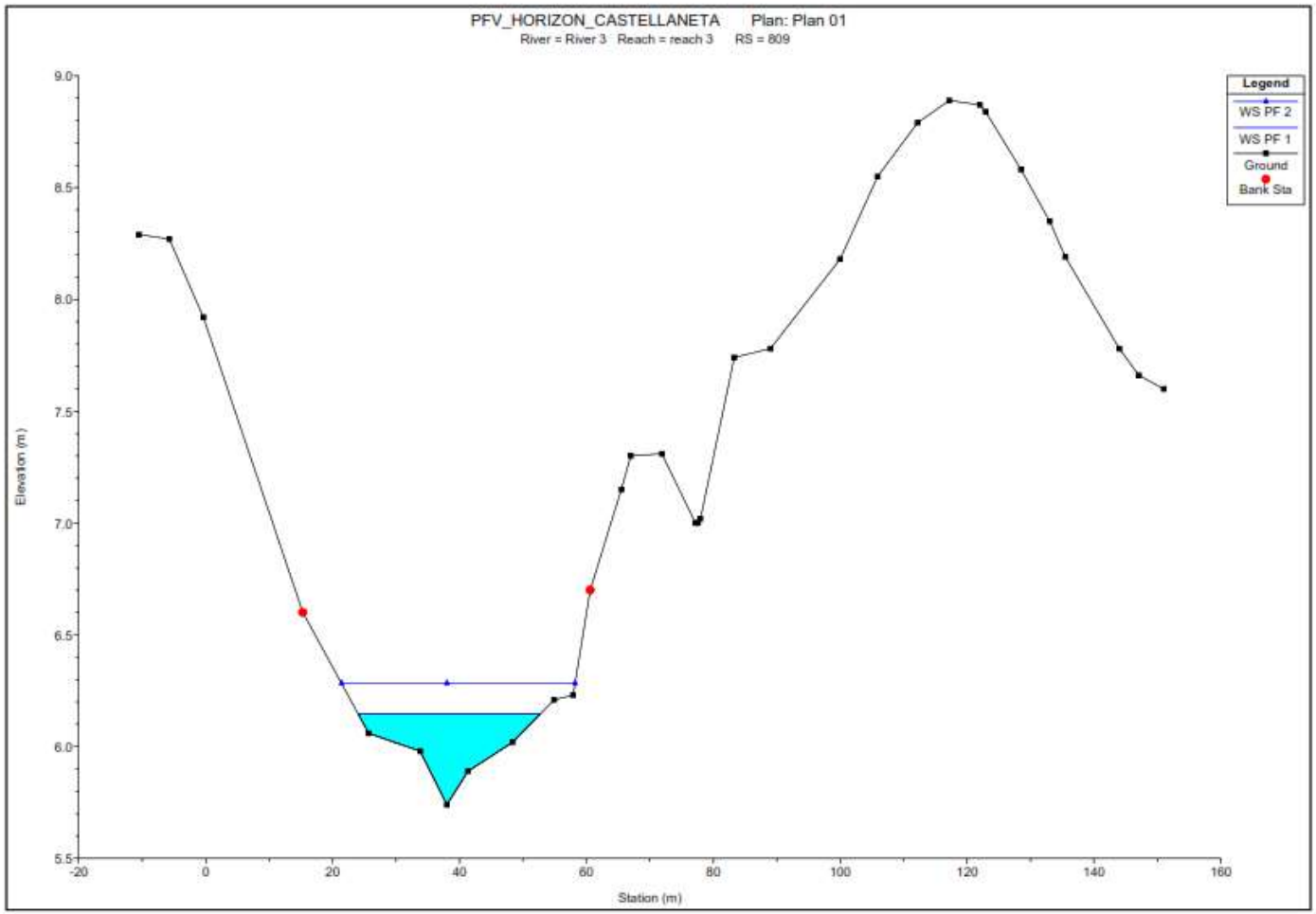

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 2 Reach = reach 2 RS = 212
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
39.5
39.4
39.3
39.2
39.1
0
20
40
60
80
100
120
Station (m)

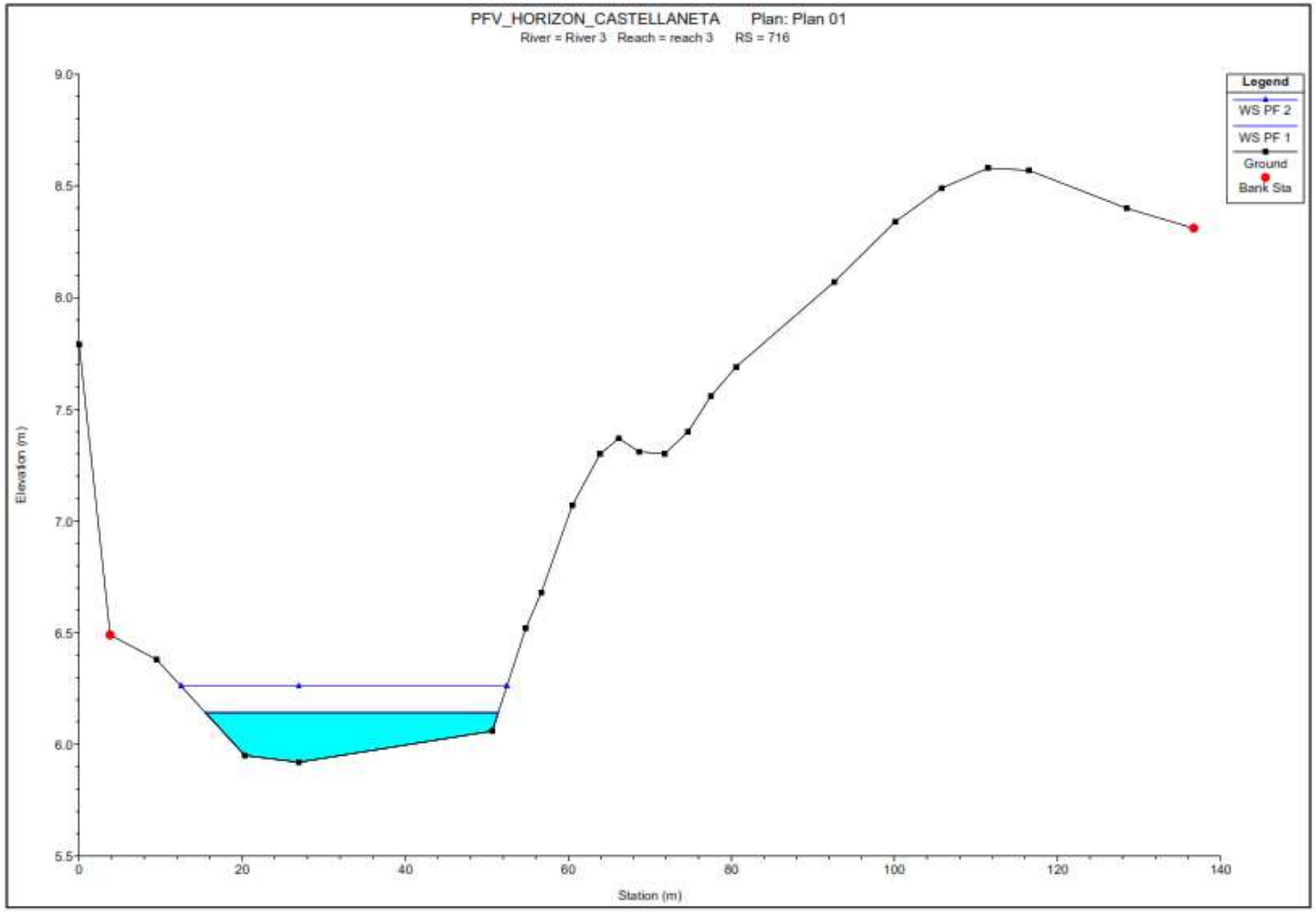

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 2 Reach = reach 2 RS = 123
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
39.4
39.2
39.0
38.8
38.6
38.4
38.2
38.0
37.8
0
20
40
60
80
100
120

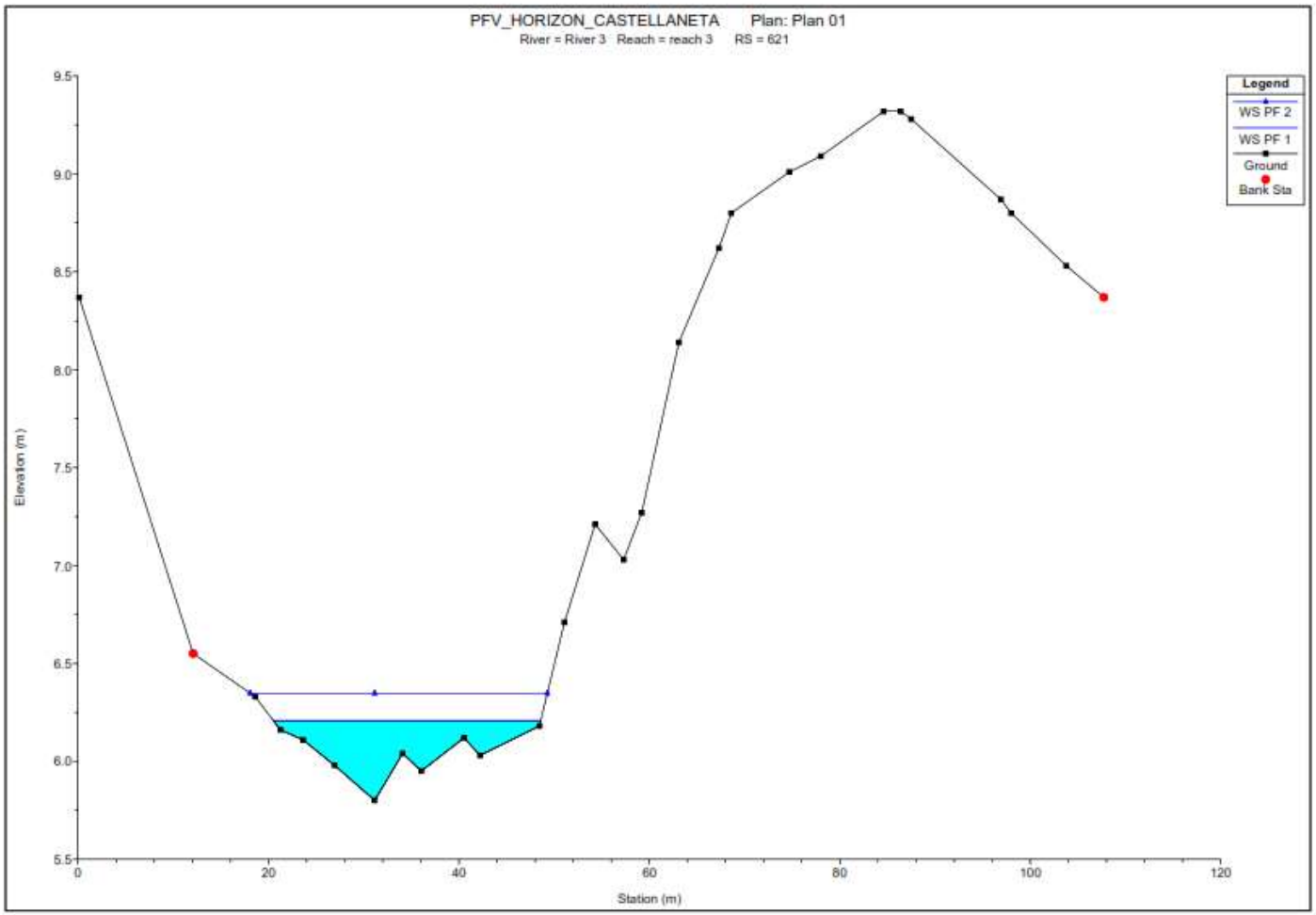

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 2 Reach = reach 2 RS = 49
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
39.6
39.5
39.4
39.3
39.2
39.1
39.0
38.9
0
20
40
60
80
100
Station (m)

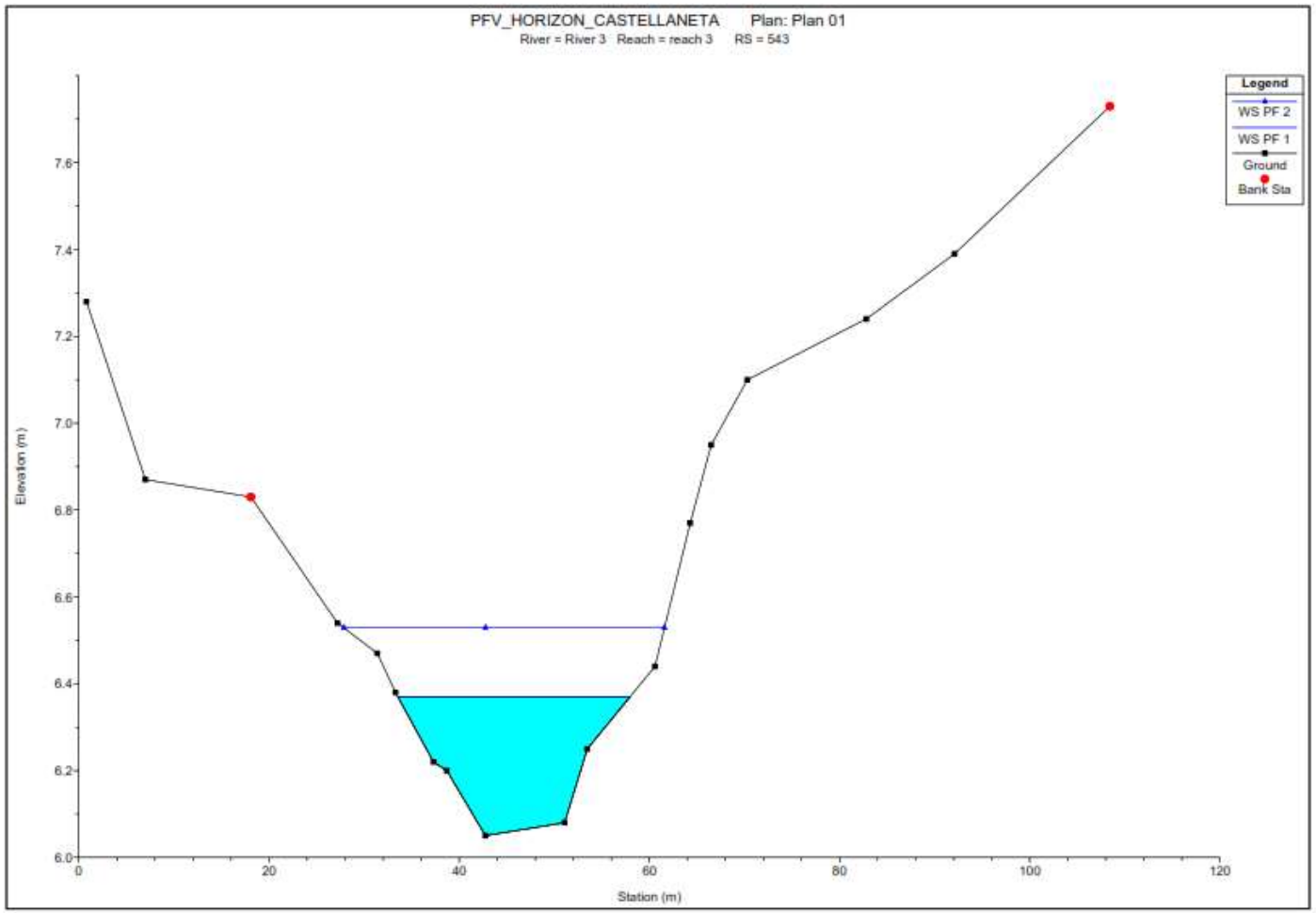

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 2 Reach = reach 2 RS = 11
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
39.8
39.7
39.6
39.5
39.4
39.3
0
20
40
60
80
100
Station (m)

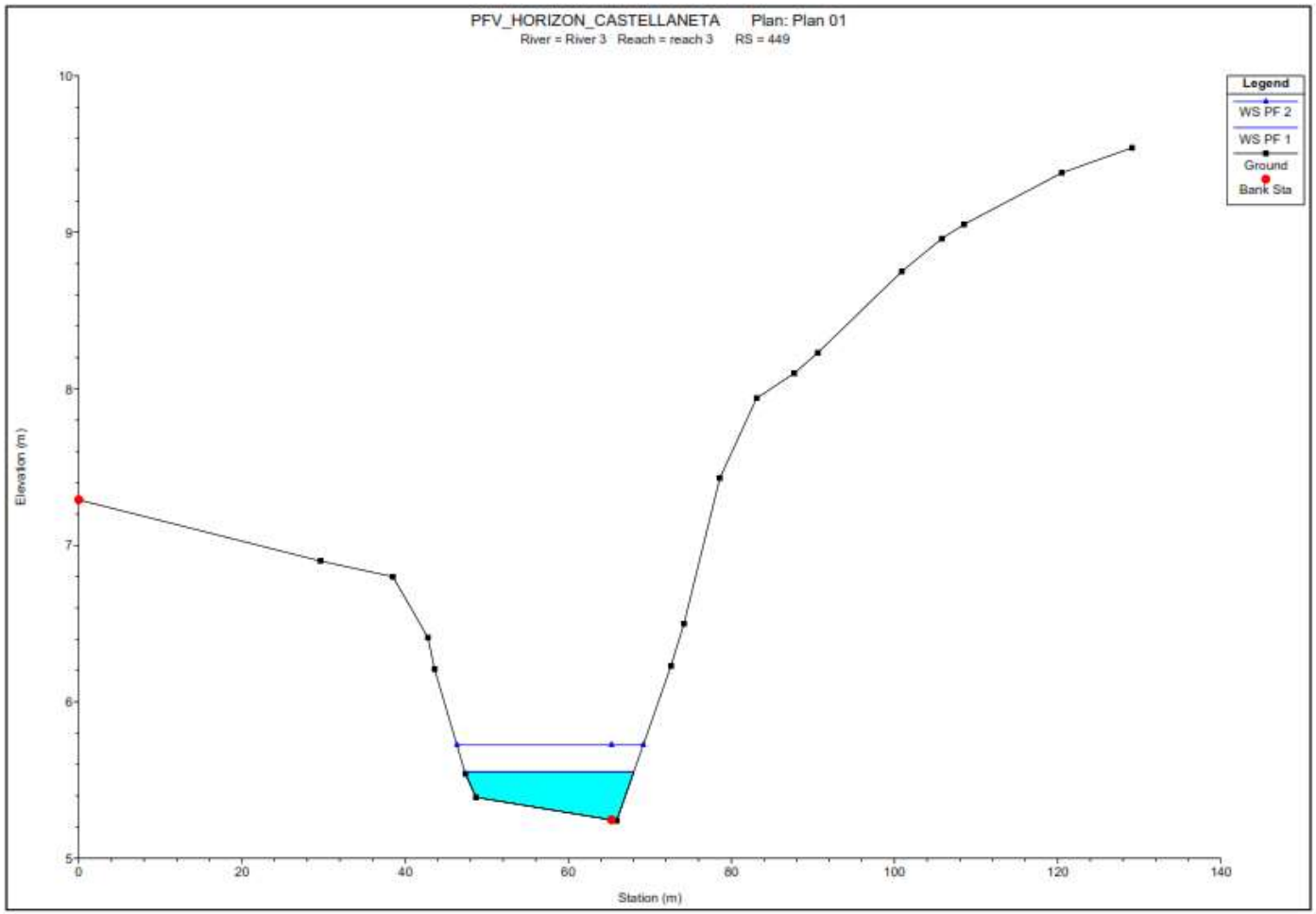

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 900
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
10
9
8
7
6
5
-20
0
20
40
60
80
100
120
140

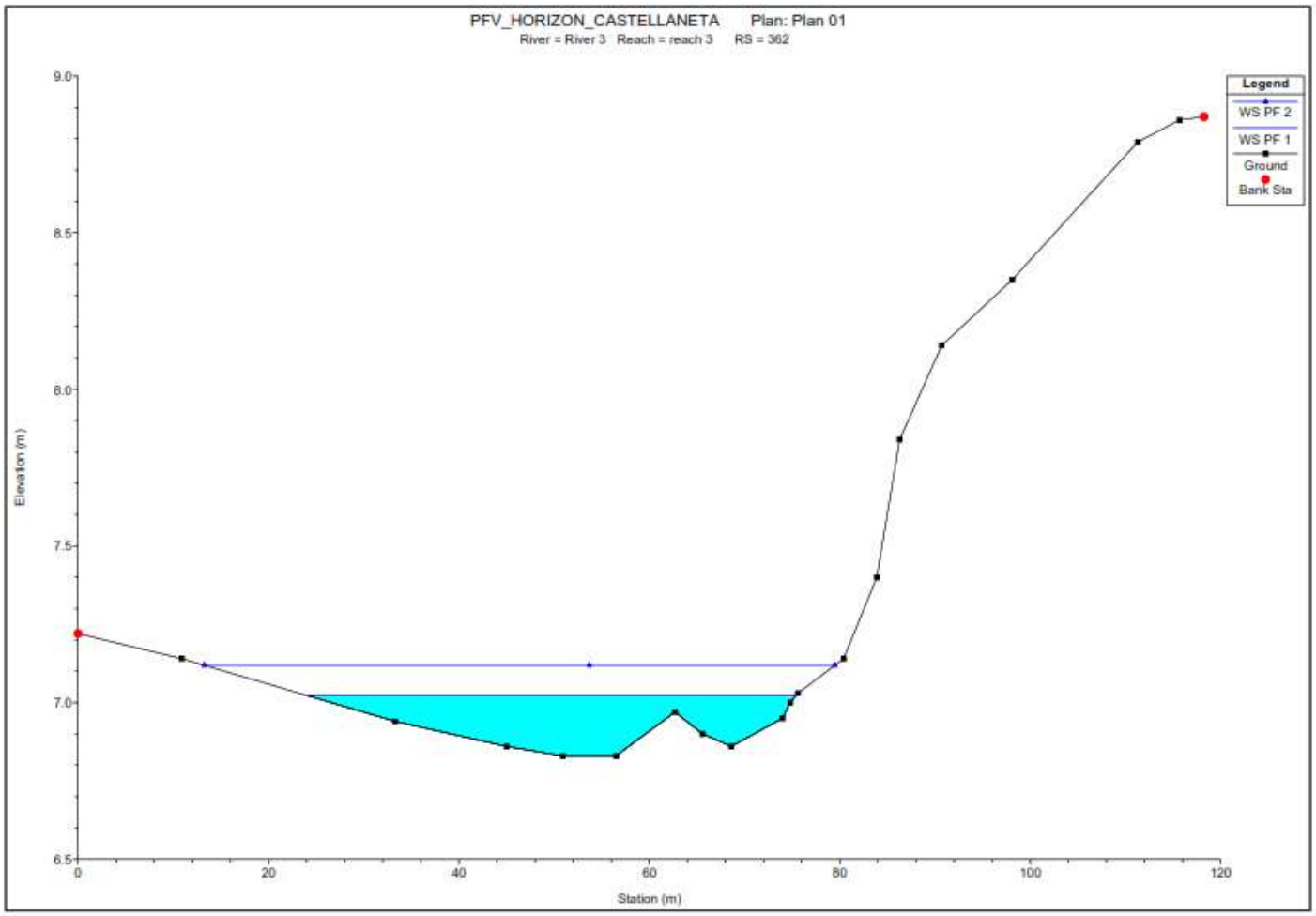

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 809
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
-20
0
20
40
60
80
100
120
140
160

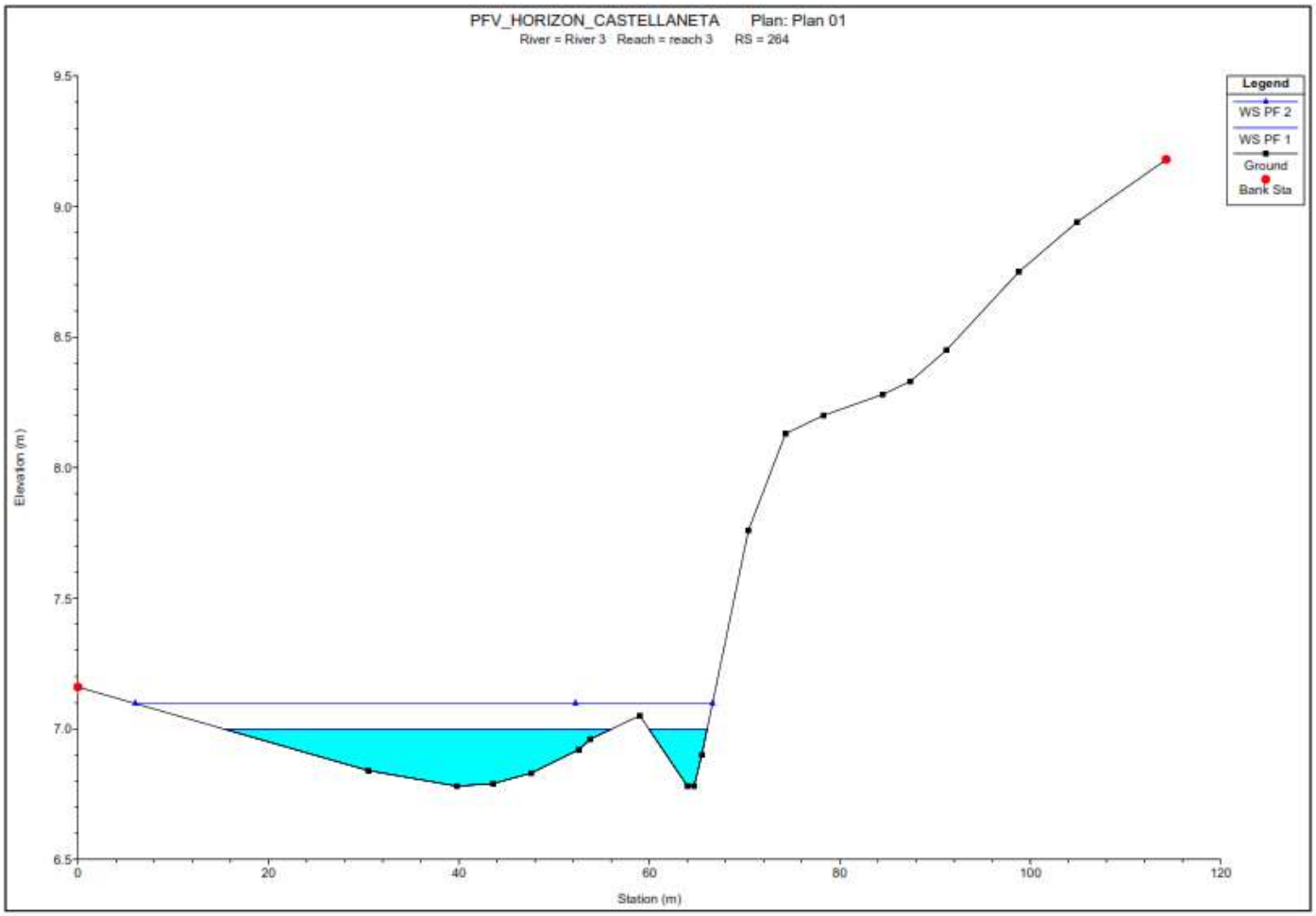

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 716
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
0
20
40
60
80
100
120
140

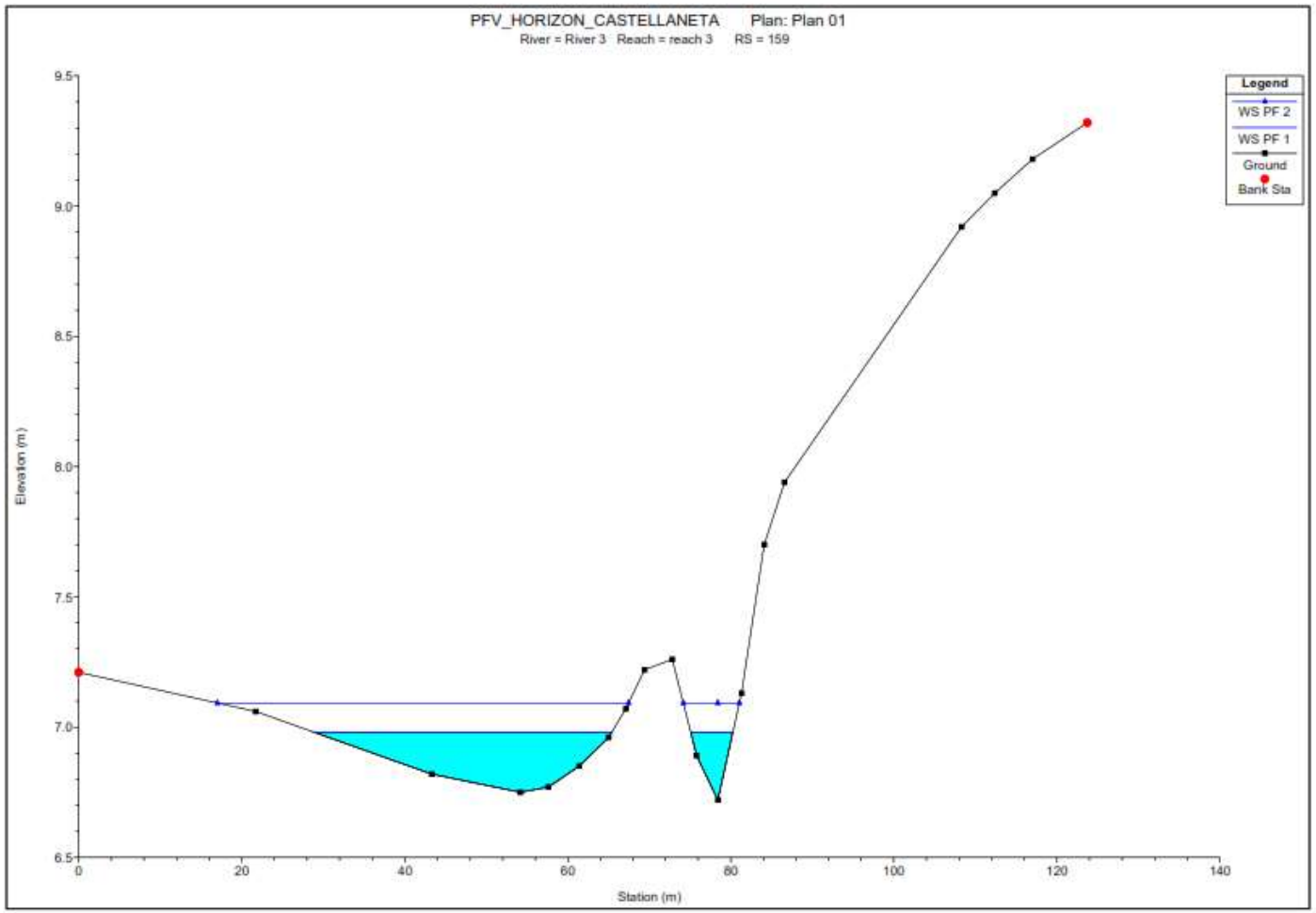

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 621
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
0
20
40
60
80
100
120

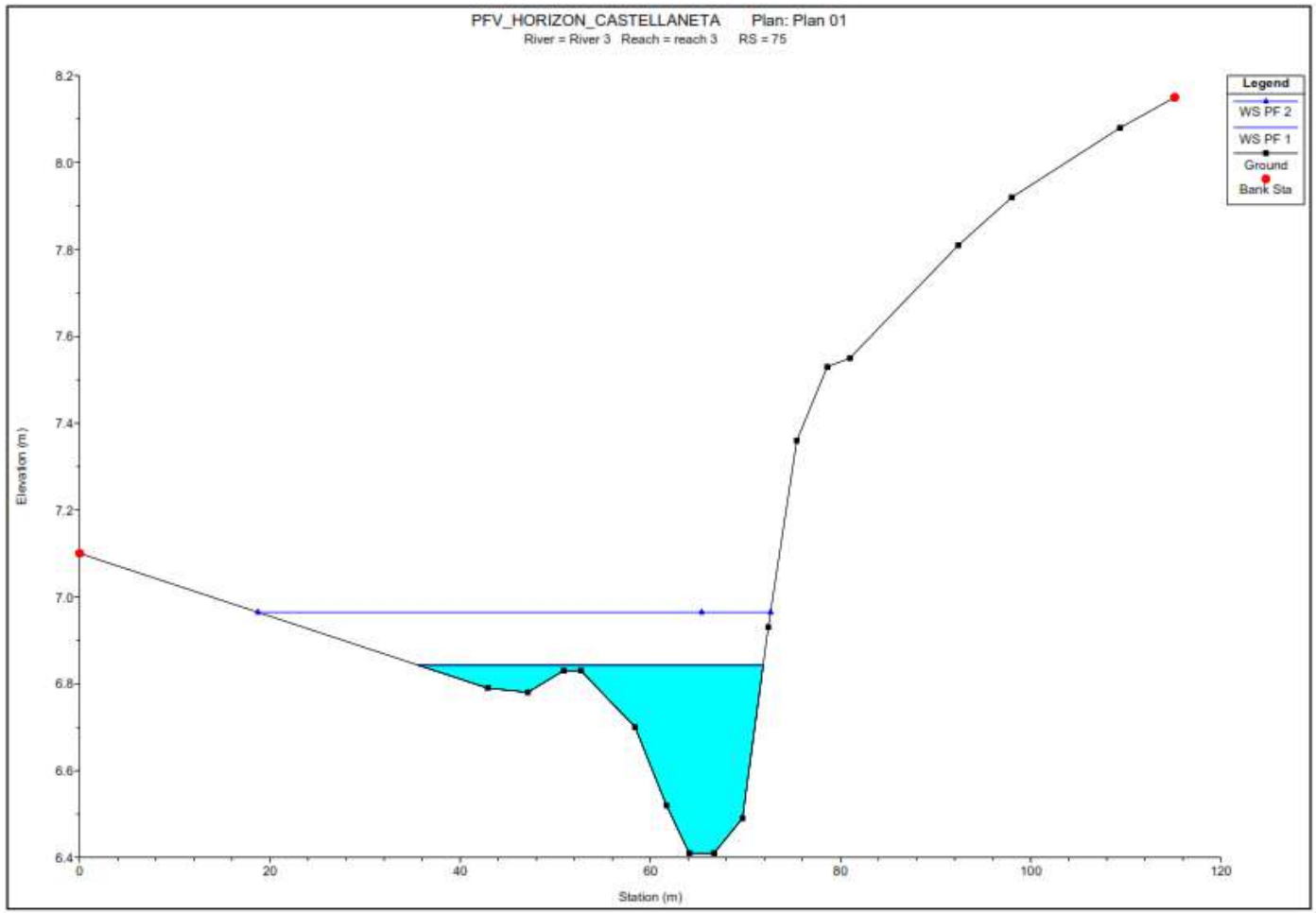

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 543
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
0
20
40
60
80
100
120

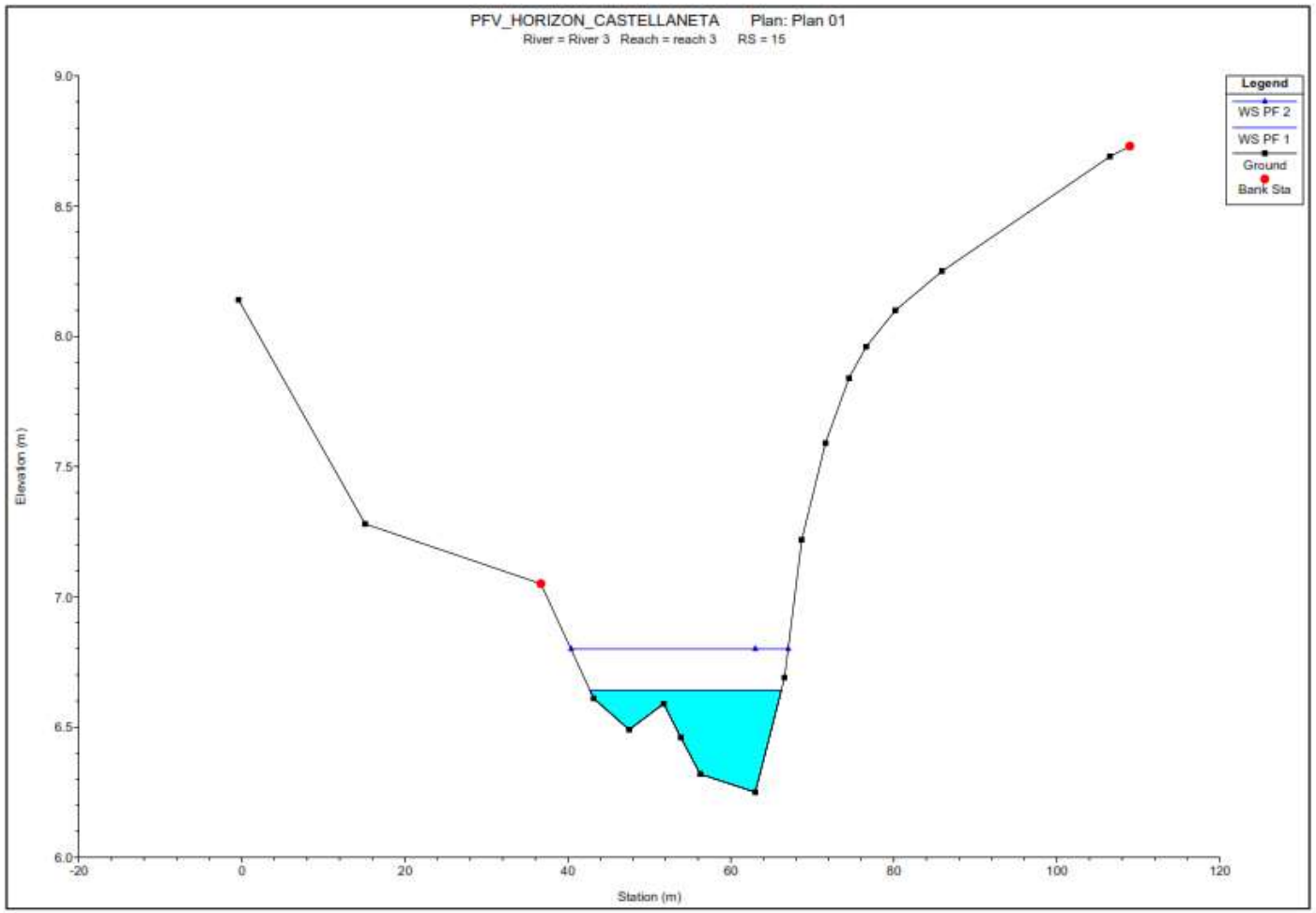

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 449
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
10
9
8
7
6
5
0
20
40
60
80
100
120
140

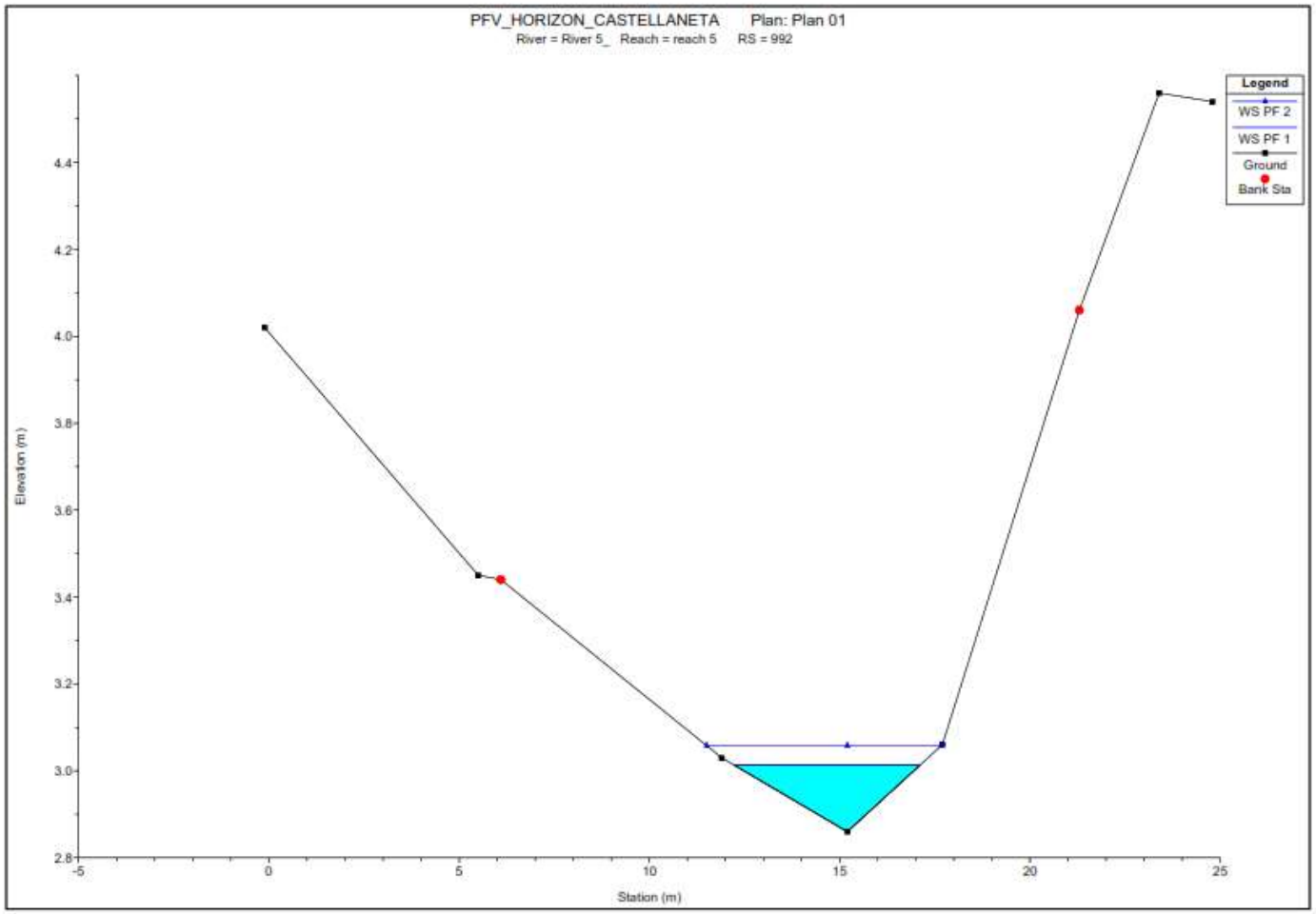

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 362
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
9.0
8.5
8.0
7.5
7.0
6.5
0
20
40
60
80
100
120

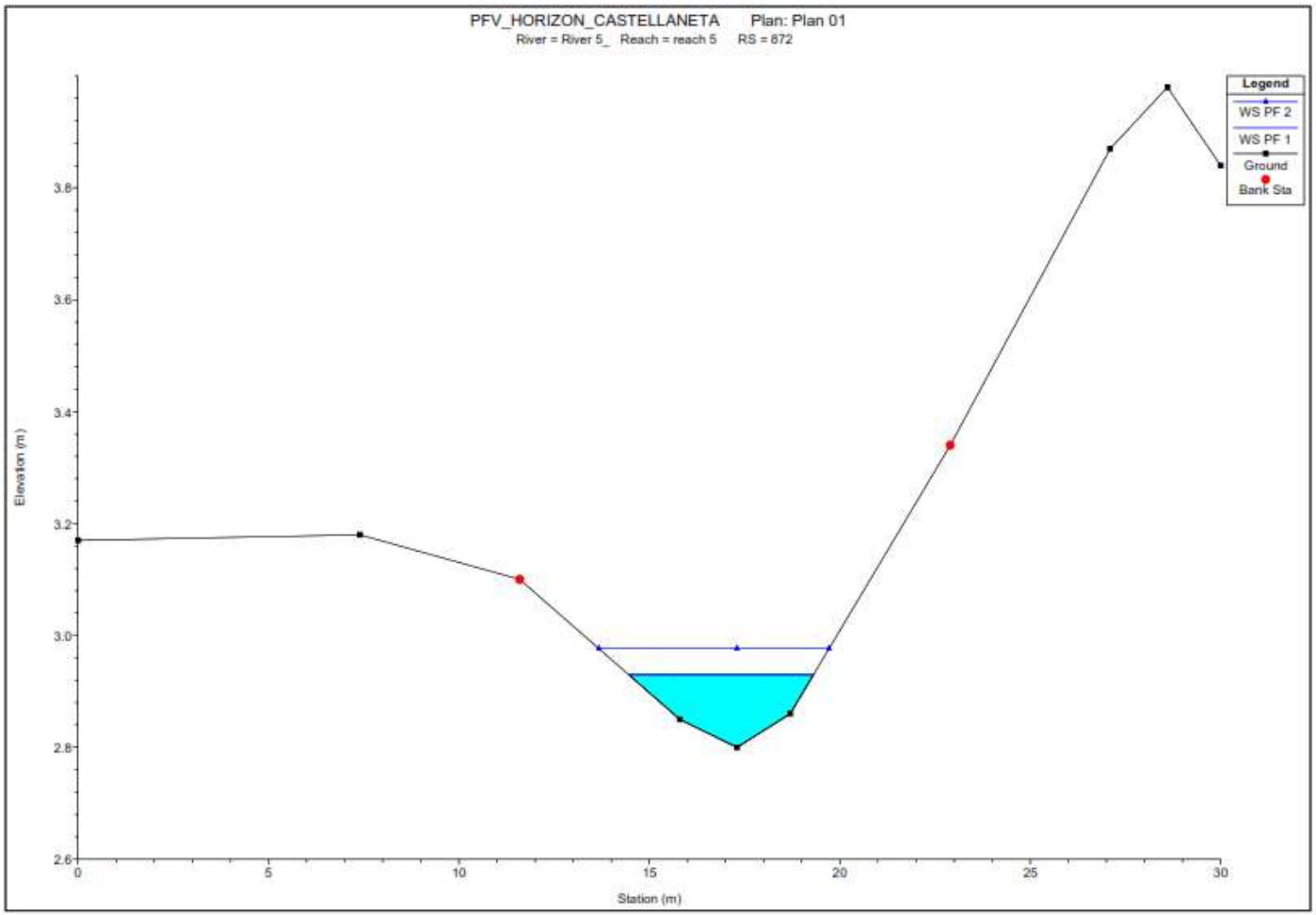

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 264
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
9.5
9.0
8.5
8.0
7.5
7.0
6.5
0
20
40
60
80
100
120

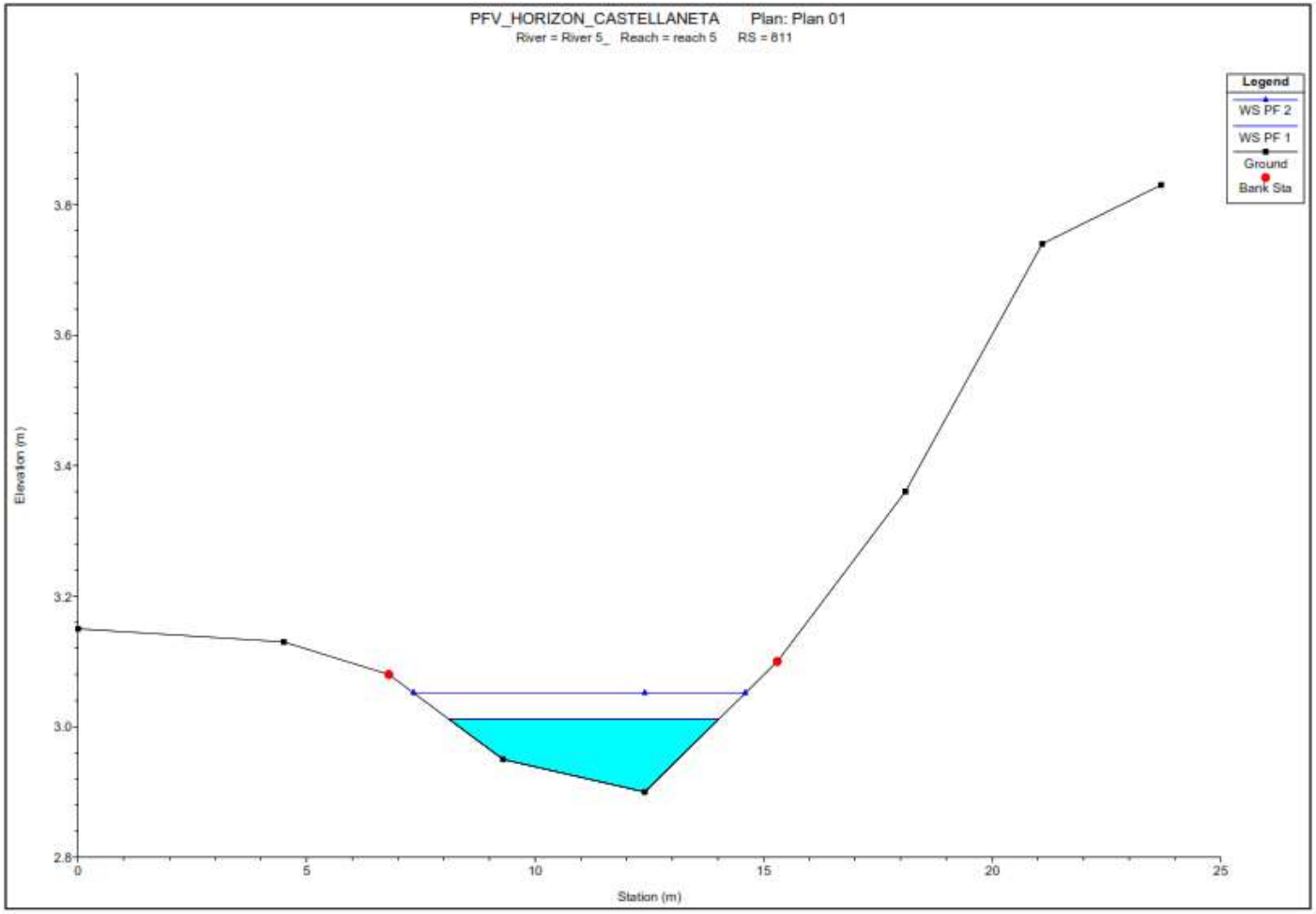

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 159
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
9.5
9.0
8.5
8.0
7.5
7.0
6.5
0
20
40
60
80
100
120
140

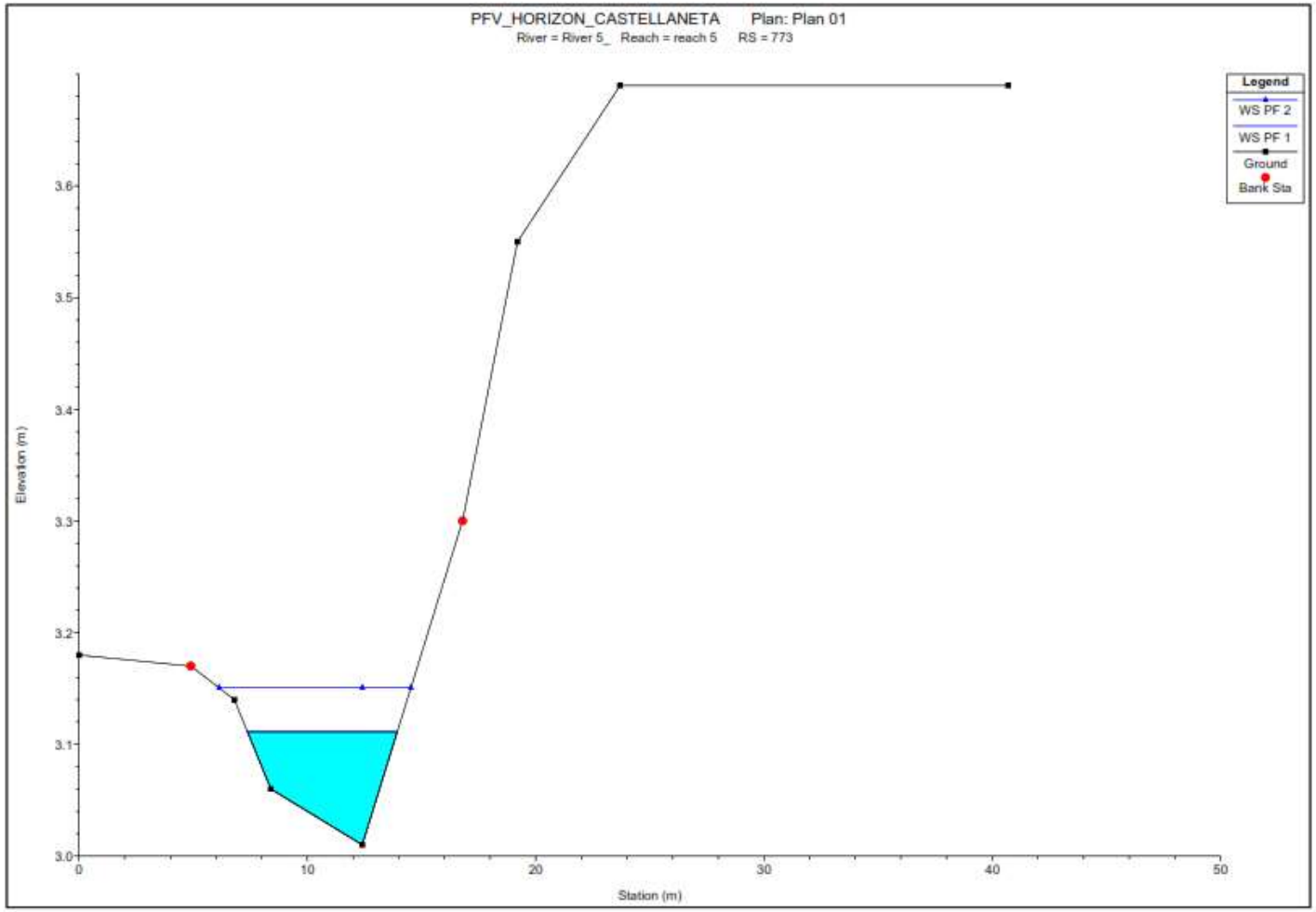

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 75
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
0
20
40
60
80
100
120

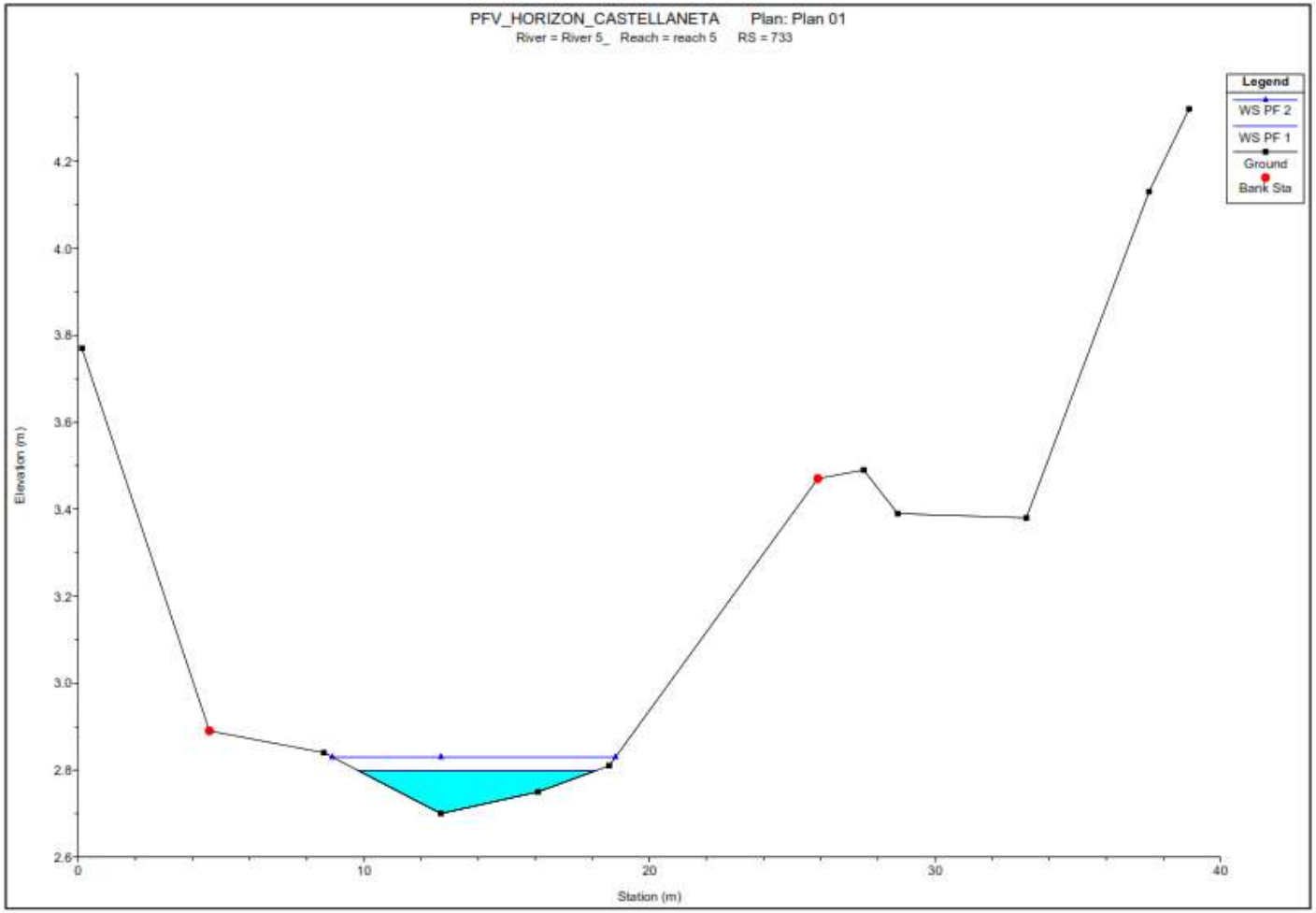

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 3 Reach = reach 3 RS = 15
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
9.0
8.5
8.0
7.5
7.0
6.5
6.0
-20
0
20
40
60
80
100
120

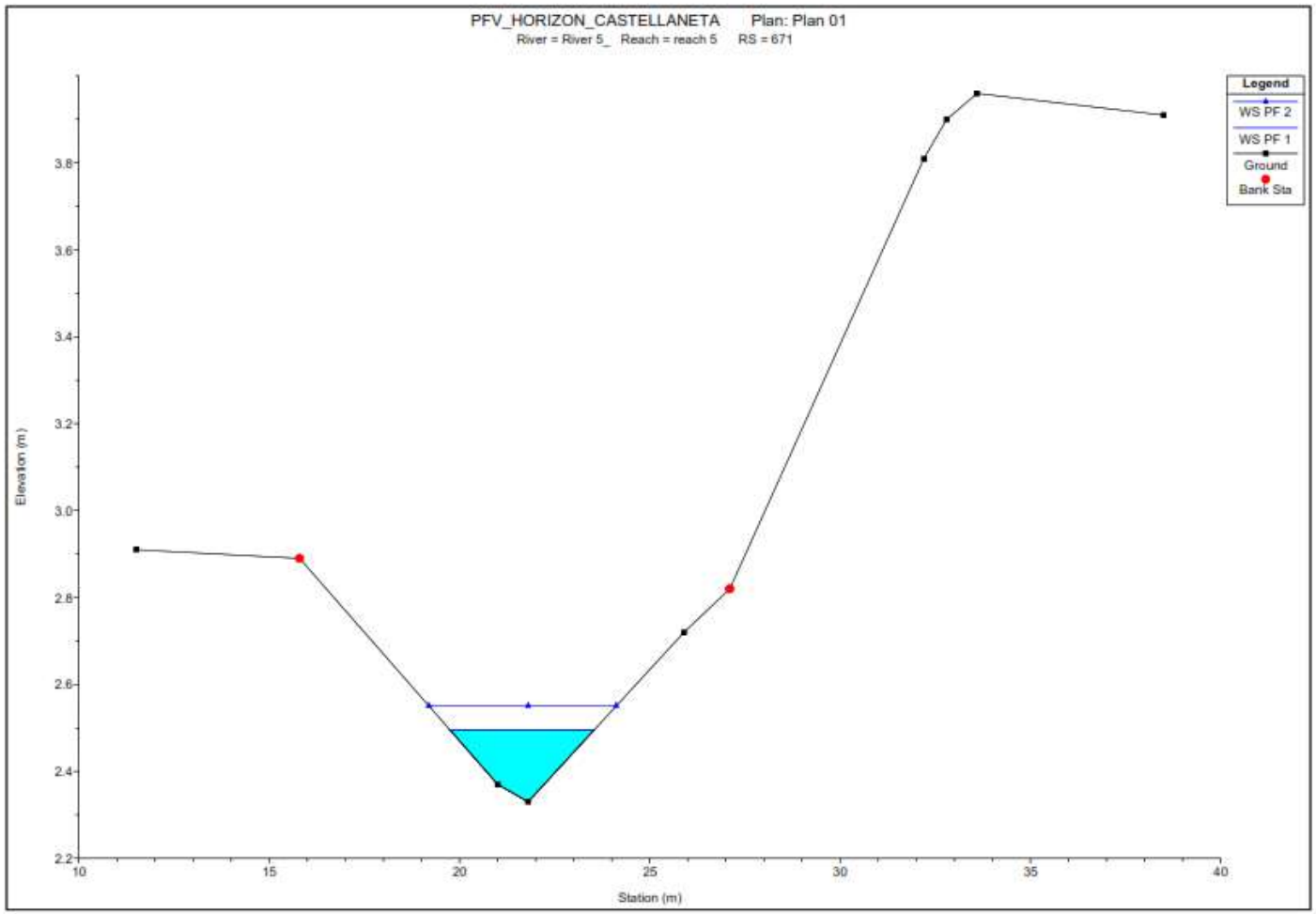

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 992
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
-5
0
5
10
15
20
25

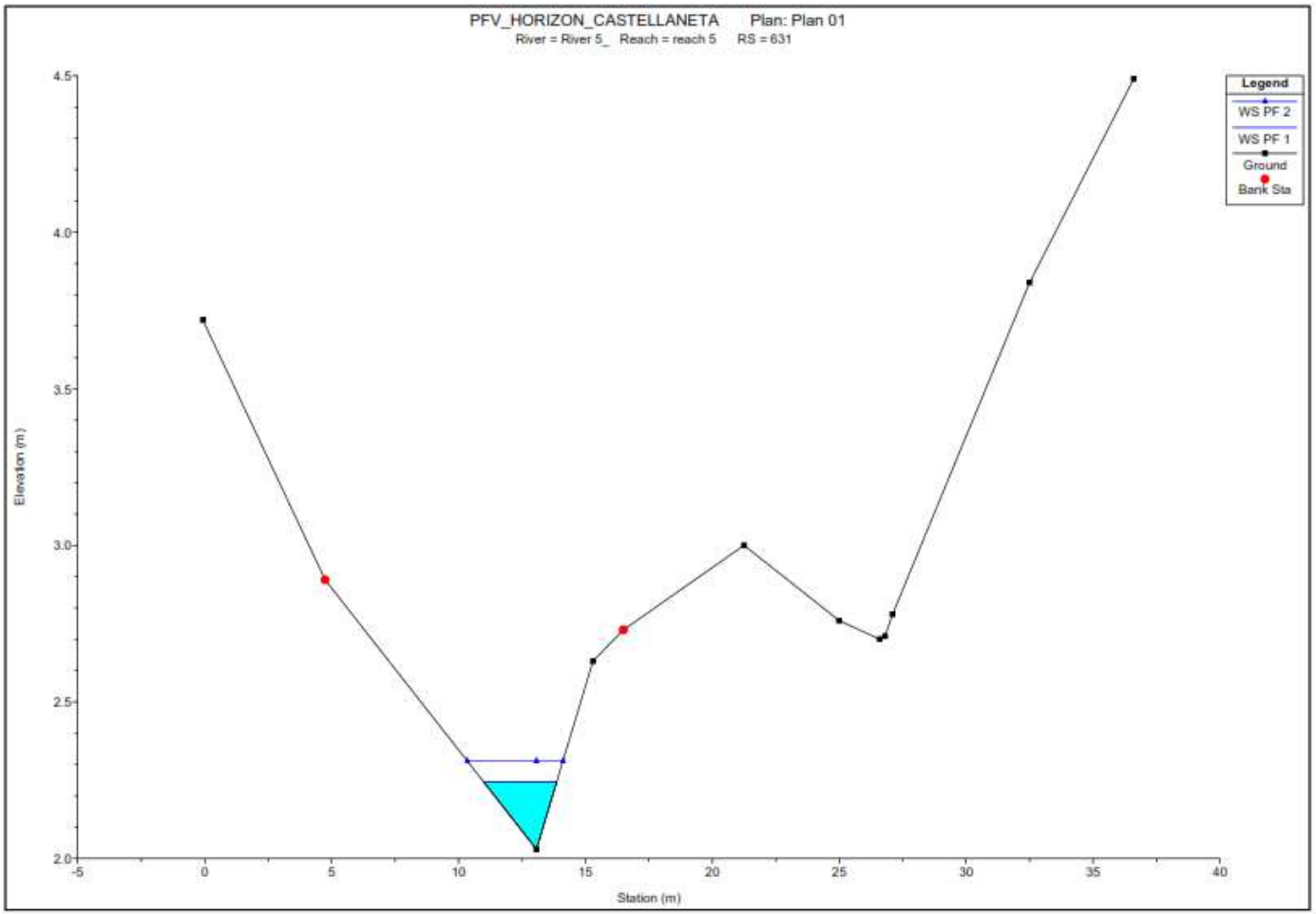

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 672
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.8
3.6
3.4
3.2
3.0
2.8
2.6
0
5
10
15
20
25
30

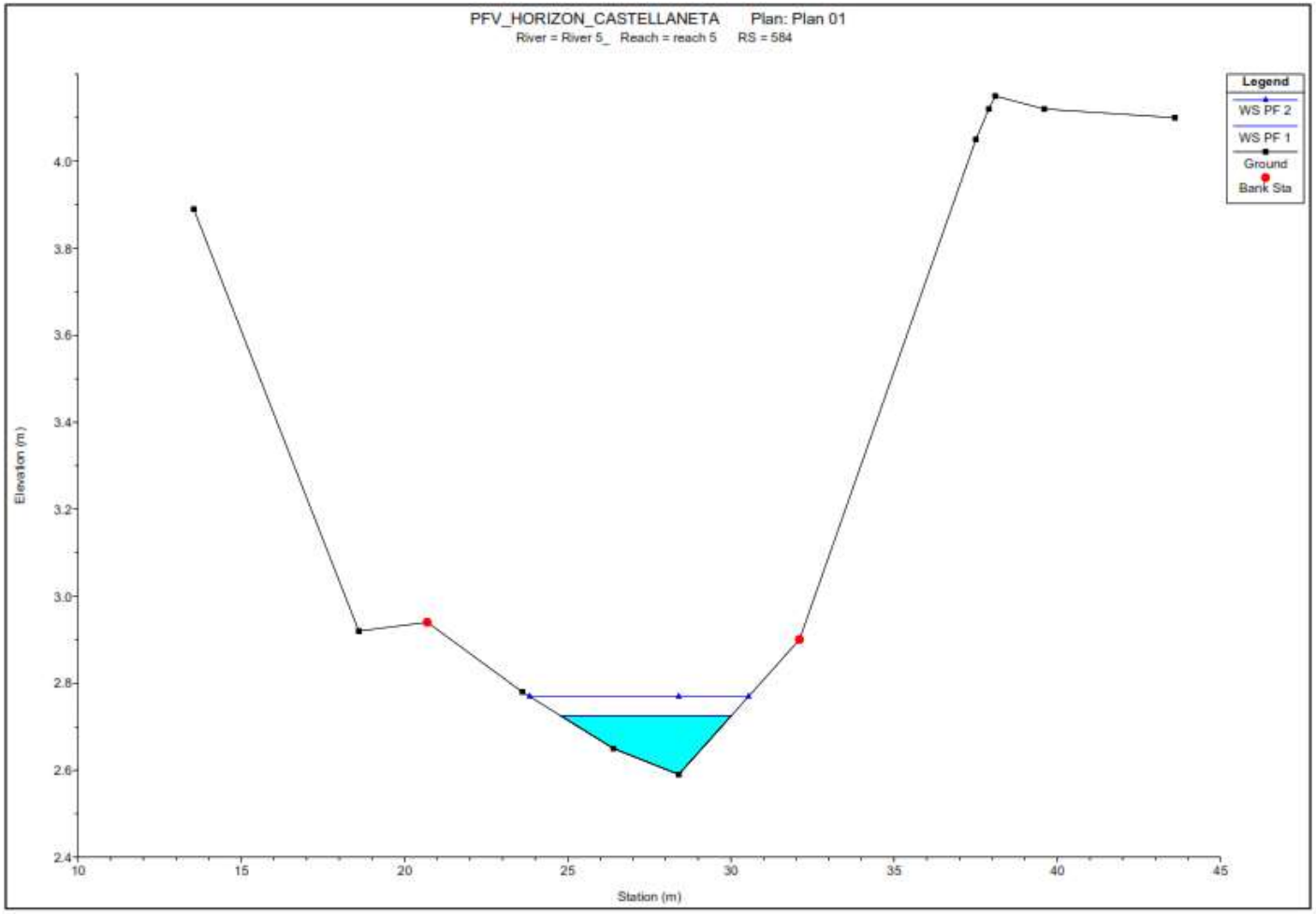

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 811
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.8
3.0
3.2
3.4
3.6
3.8
0
5
10
15
20
25

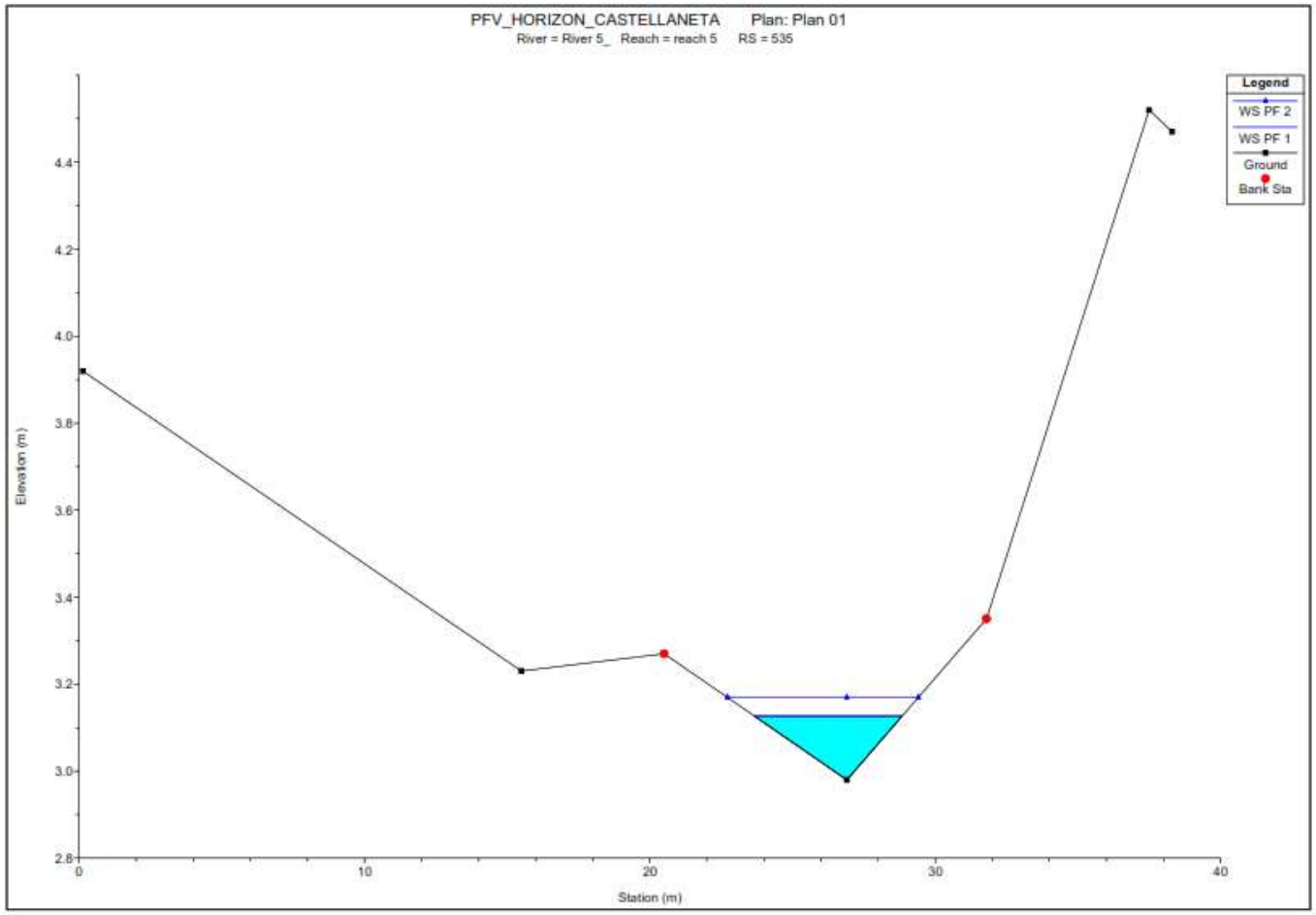

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 773
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.0
3.1
3.2
3.3
3.4
3.5
3.6
0
10
20
30
40
50

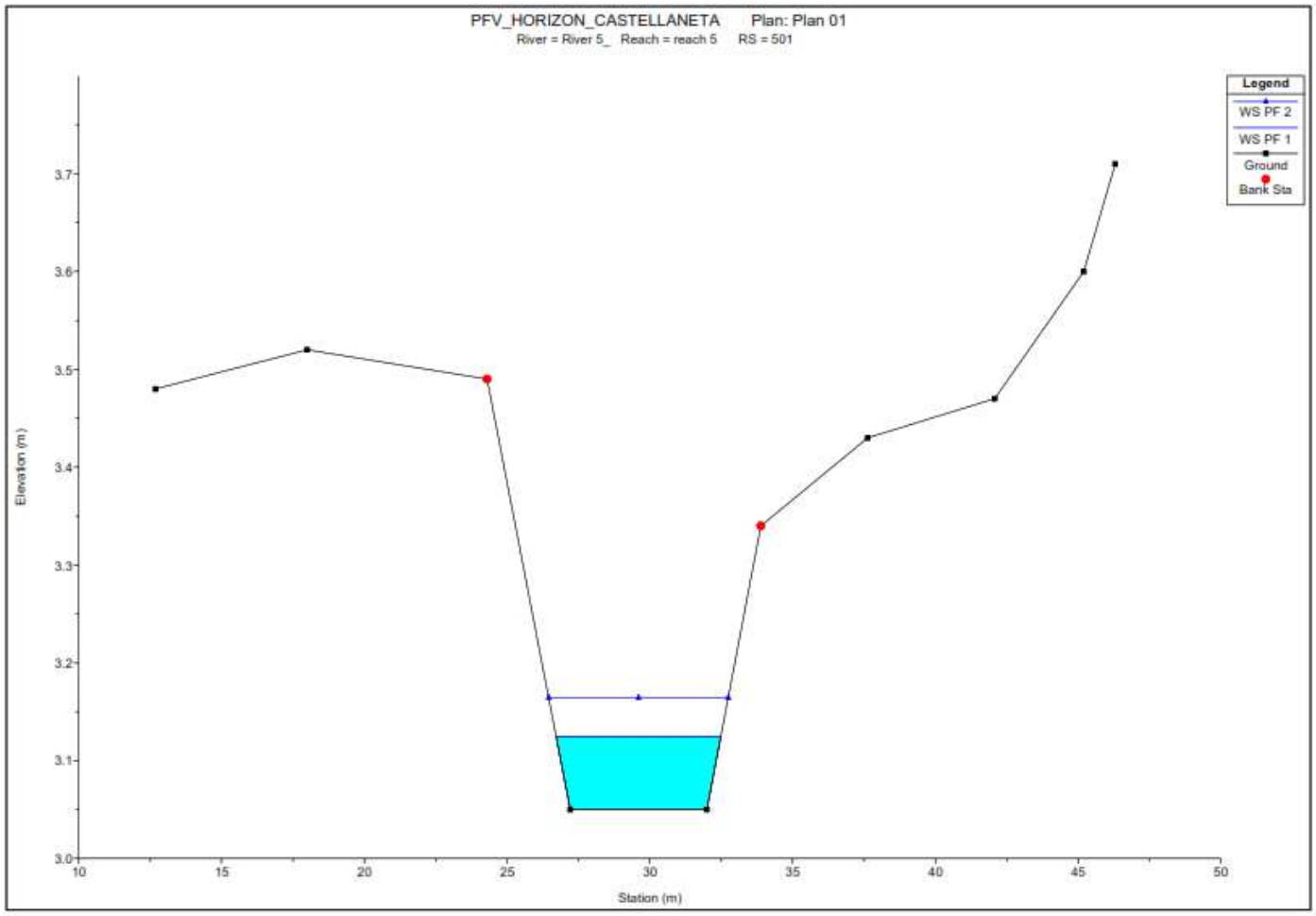

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 733
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
0
10
20
30
40

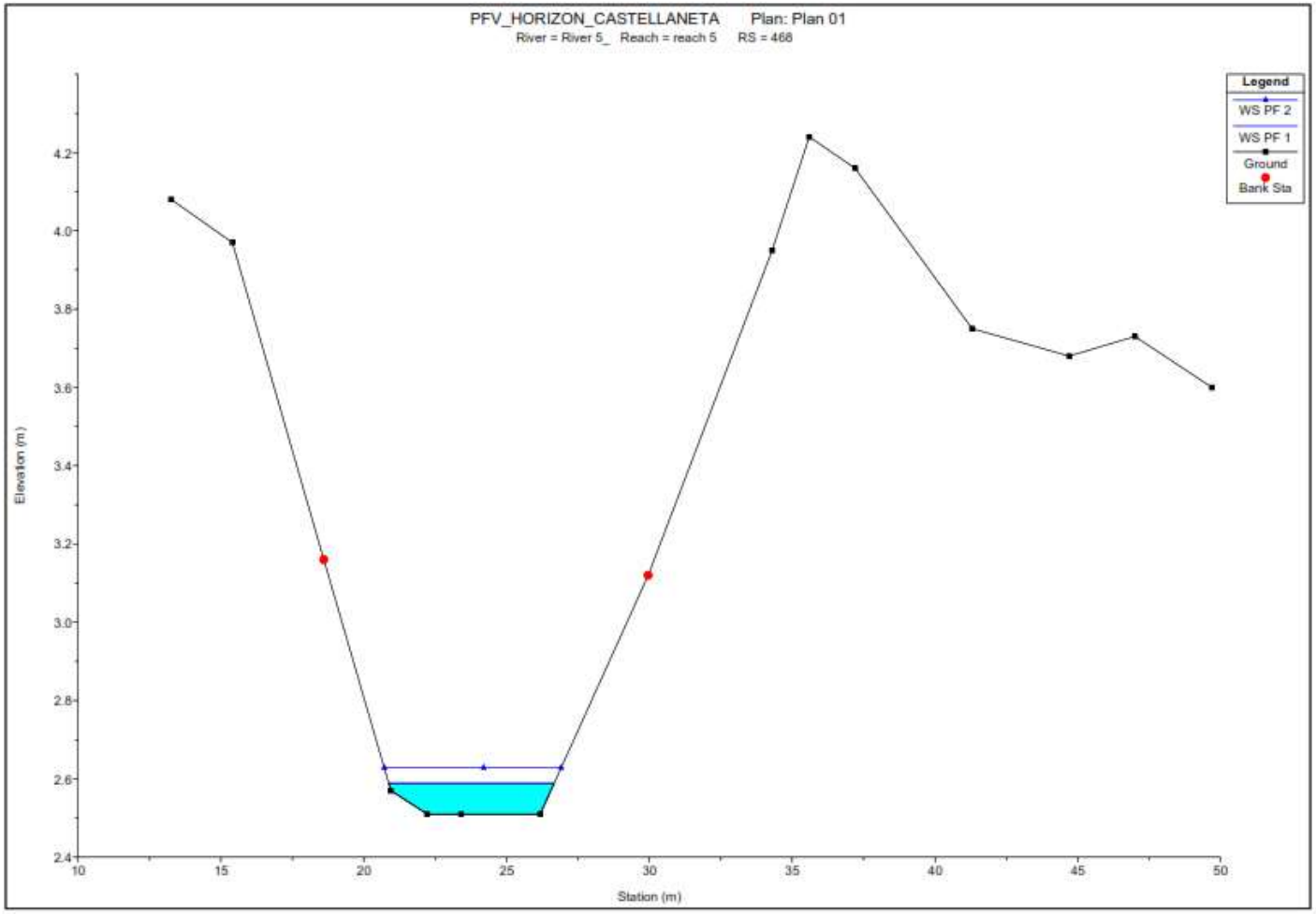

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 671
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
10
15
20
25
30
35
40

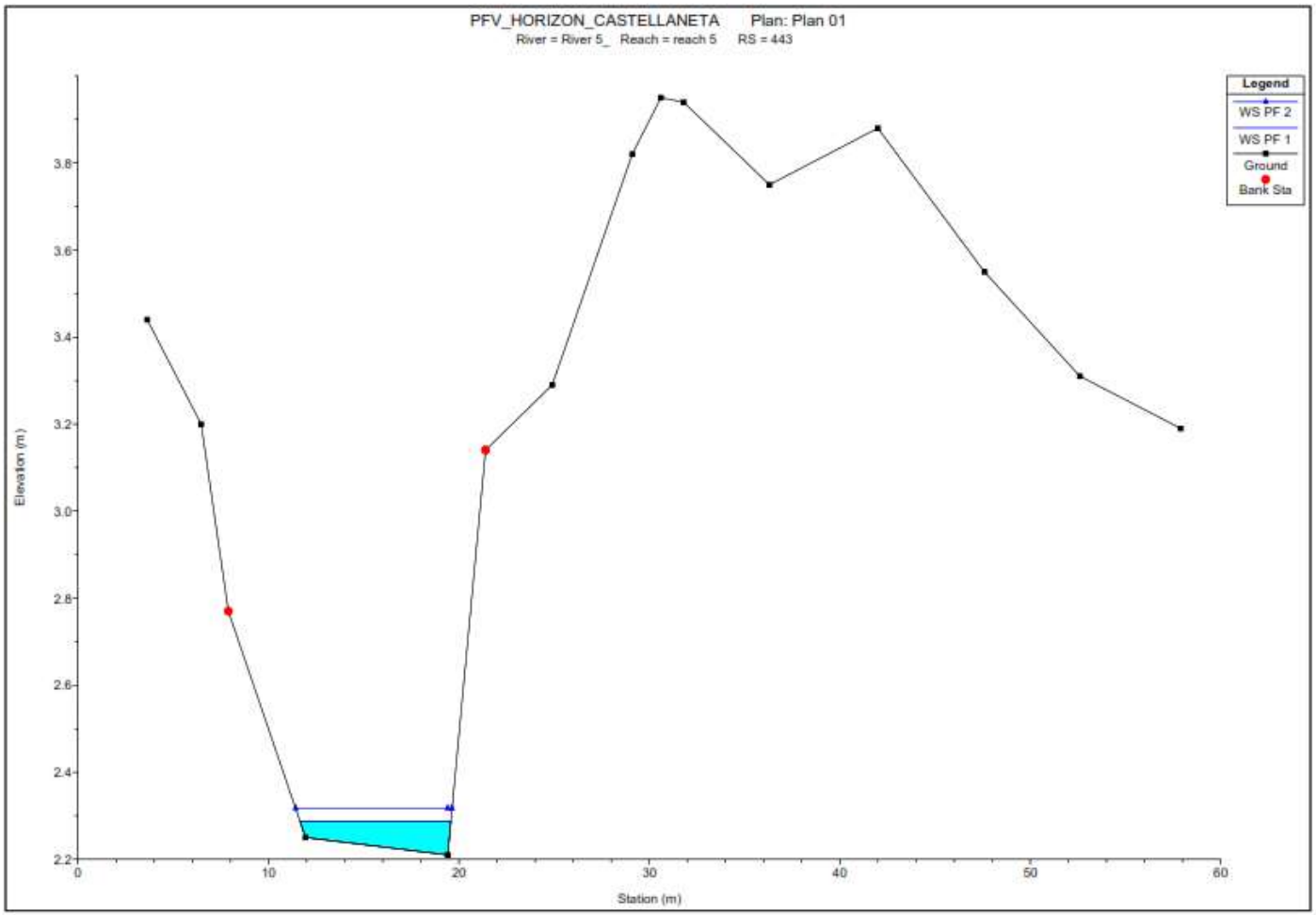

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 631
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.5
4.0
3.5
3.0
2.5
2.0
-5
0
5
10
15
20
25
30
35
40

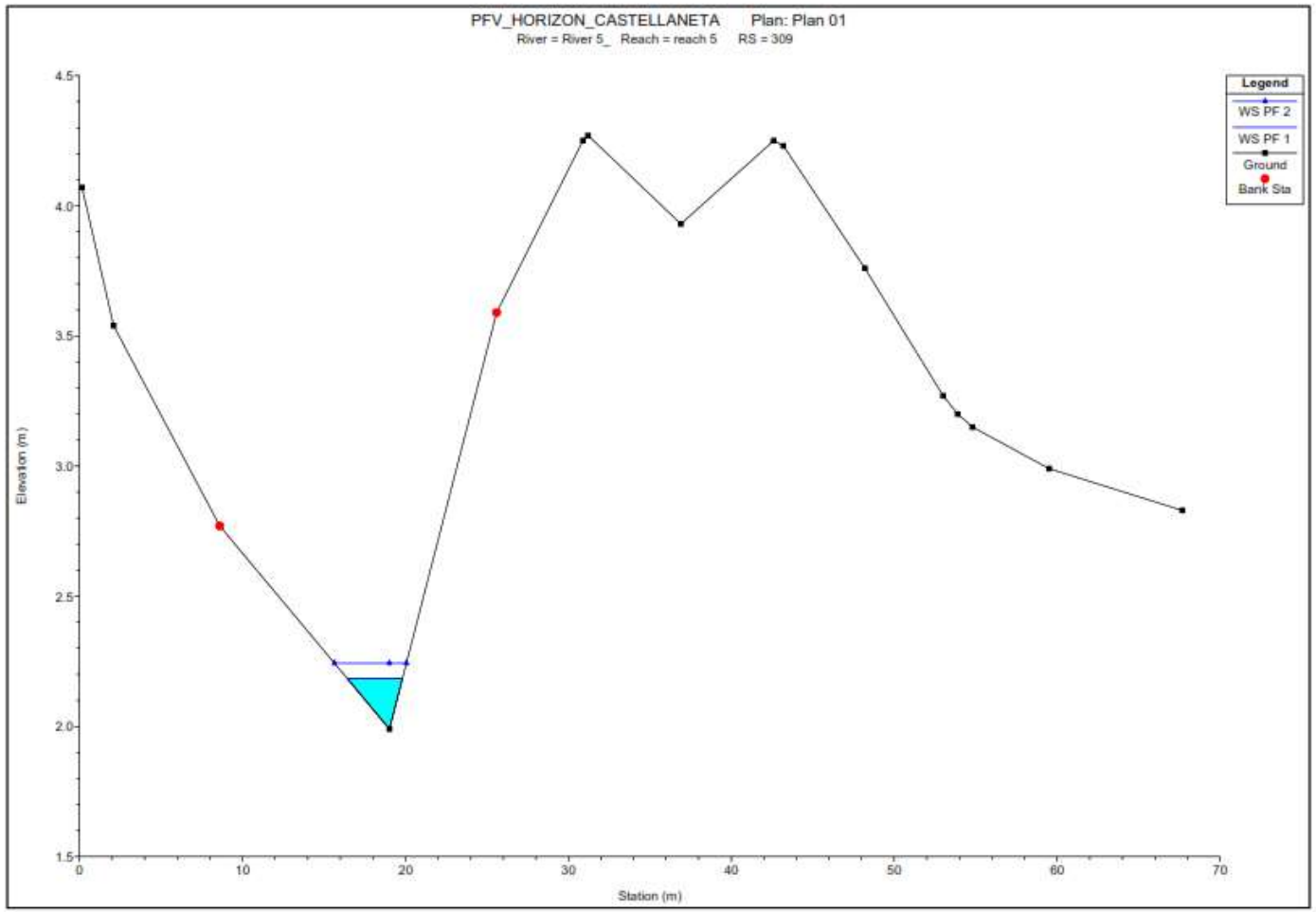

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 584
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
10
15
20
25
30
35
40
45

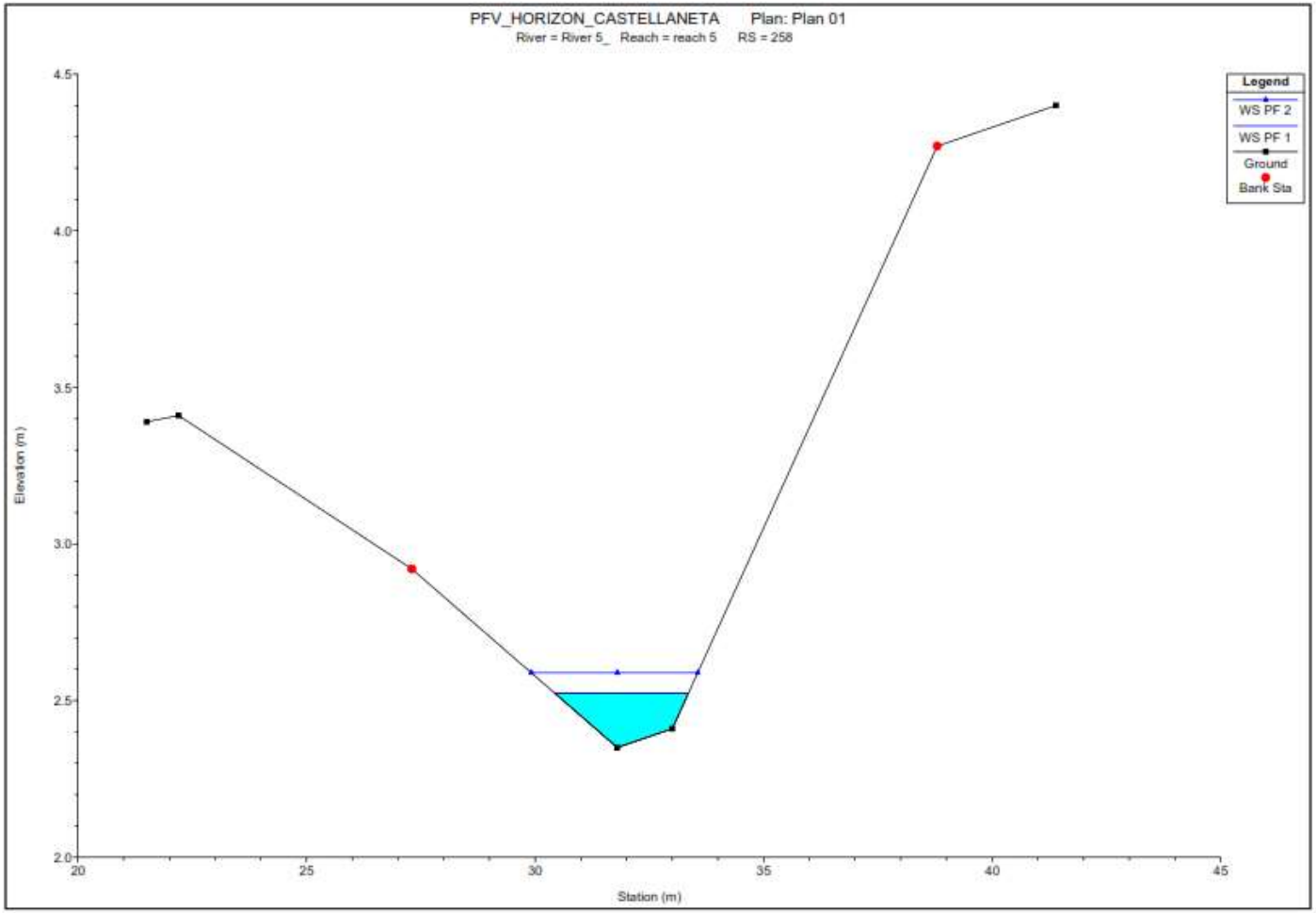

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 535
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
0
10
20
30
40

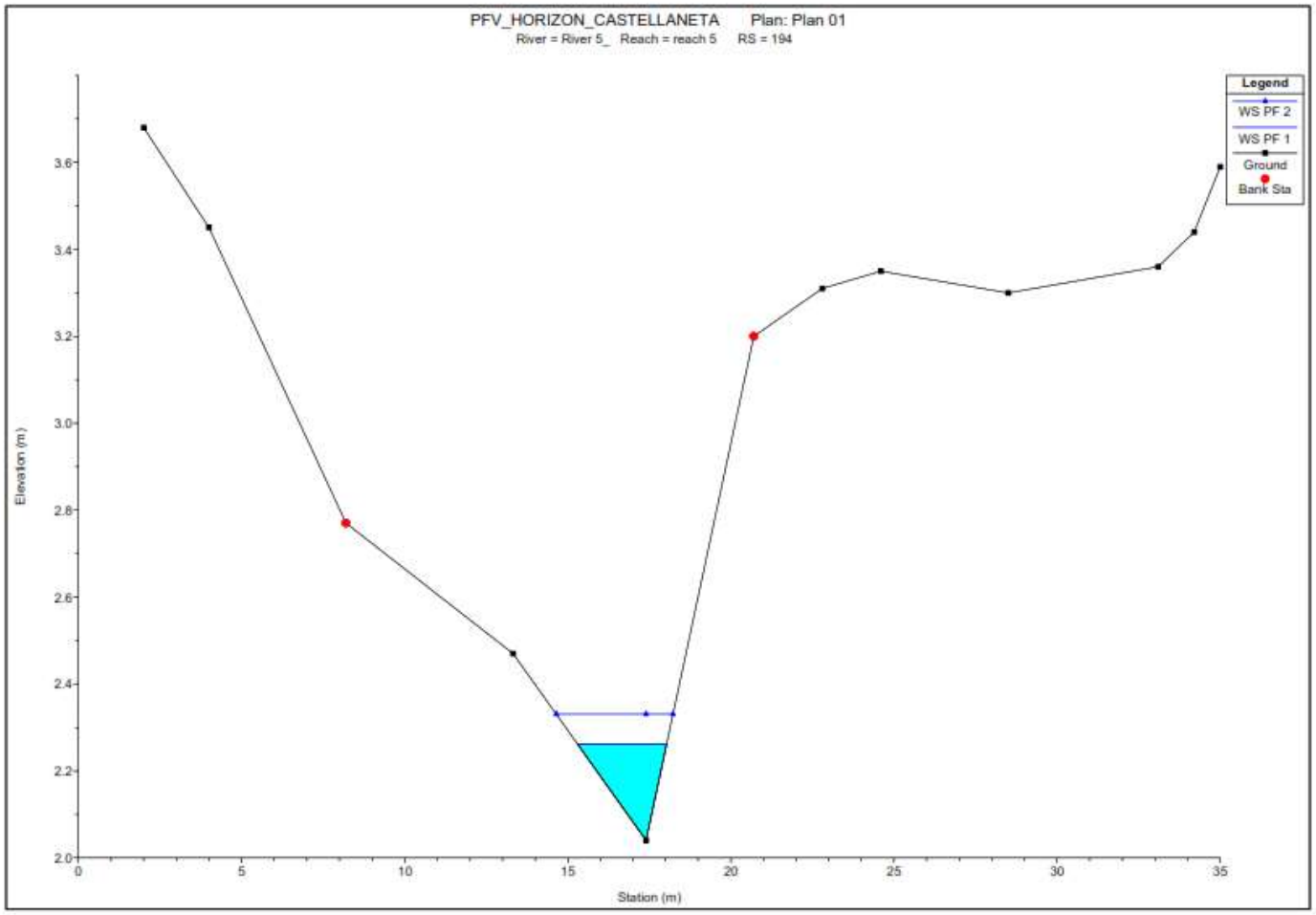

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 501
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
10
15
20
25
30
35
40
45
50

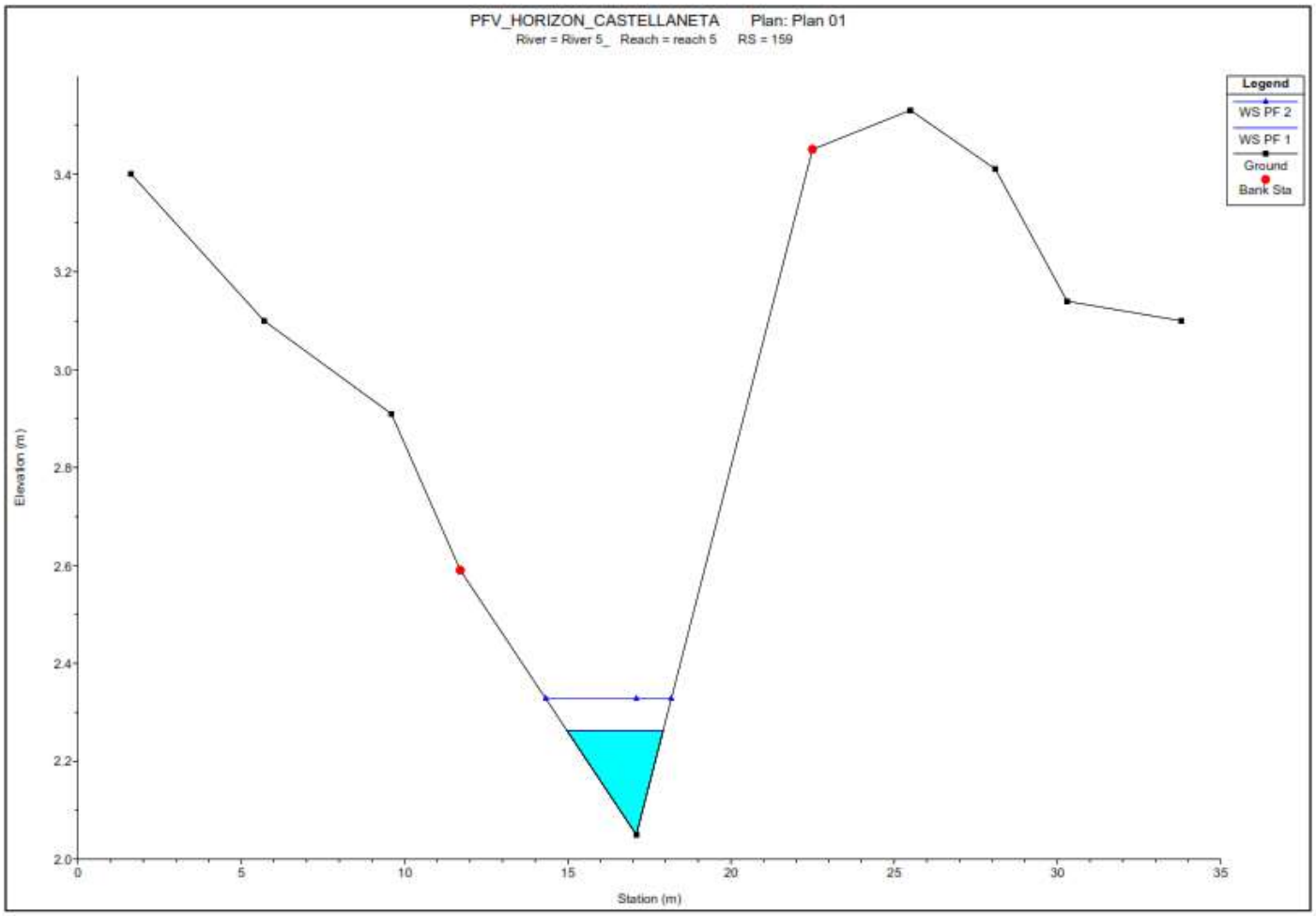

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 468
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
10
15
20
25
30
35
40
45
50

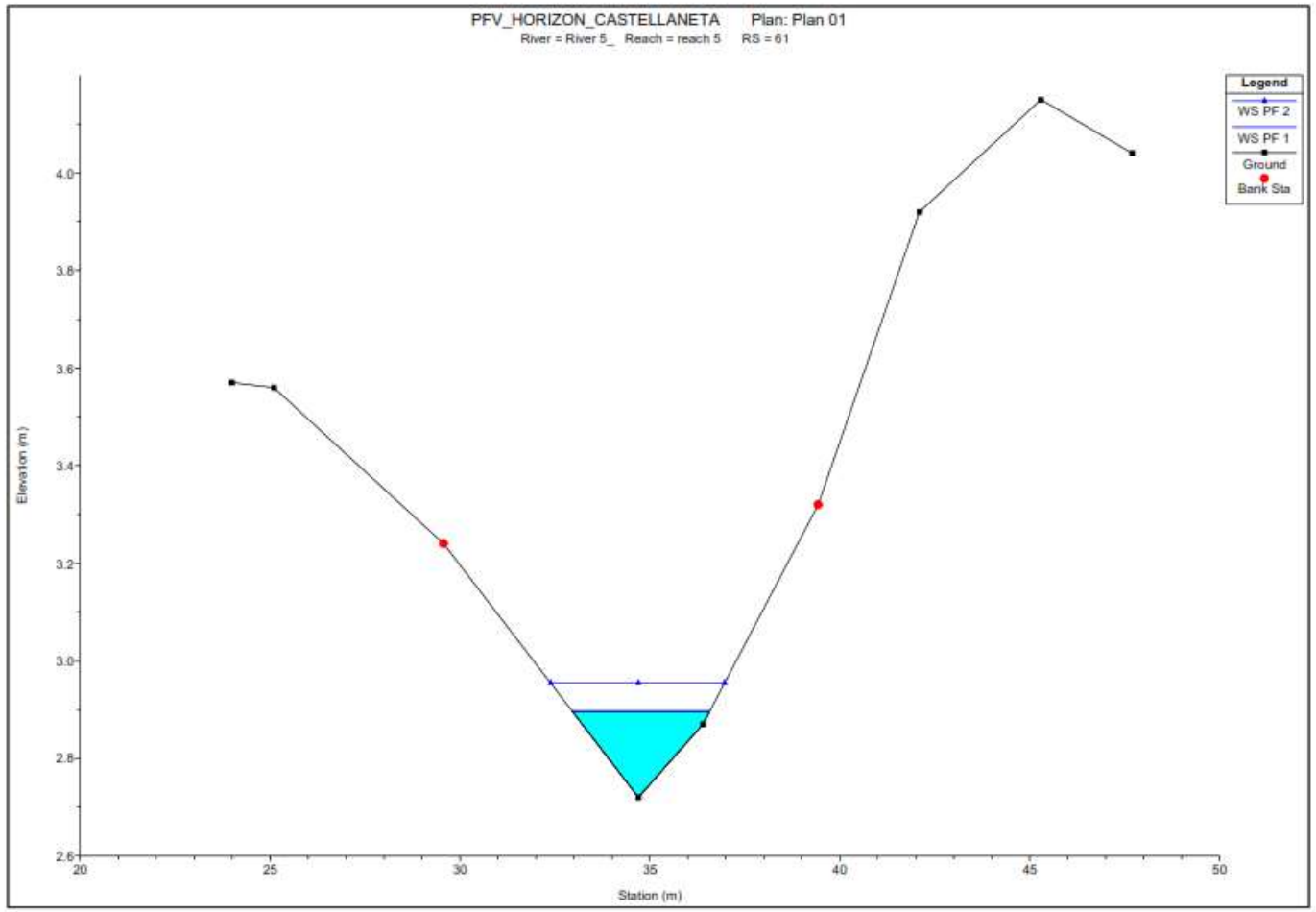

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 443
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
0
10
20
30
40
50
60

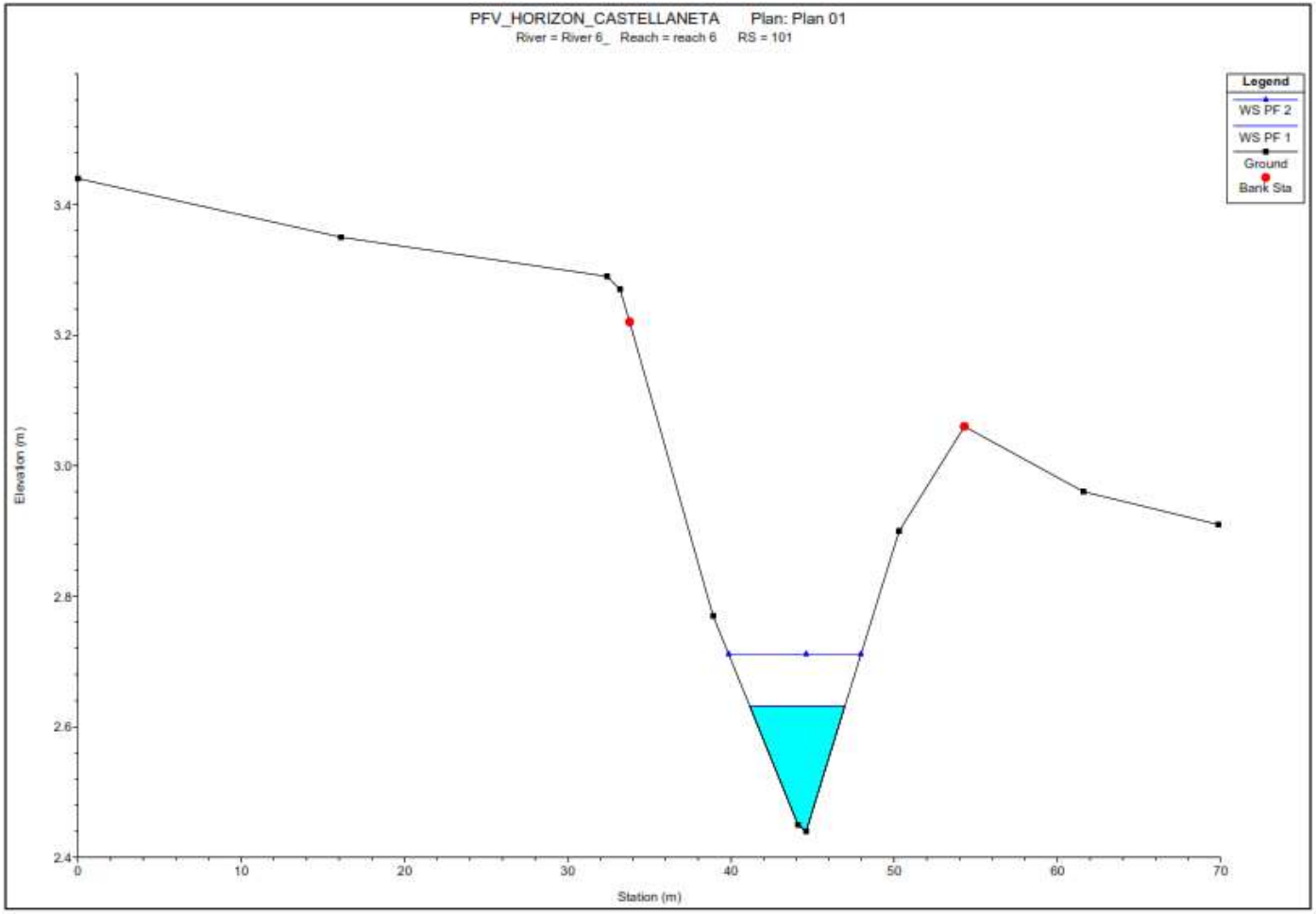

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 309
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
10
20
30
40
50
60
70

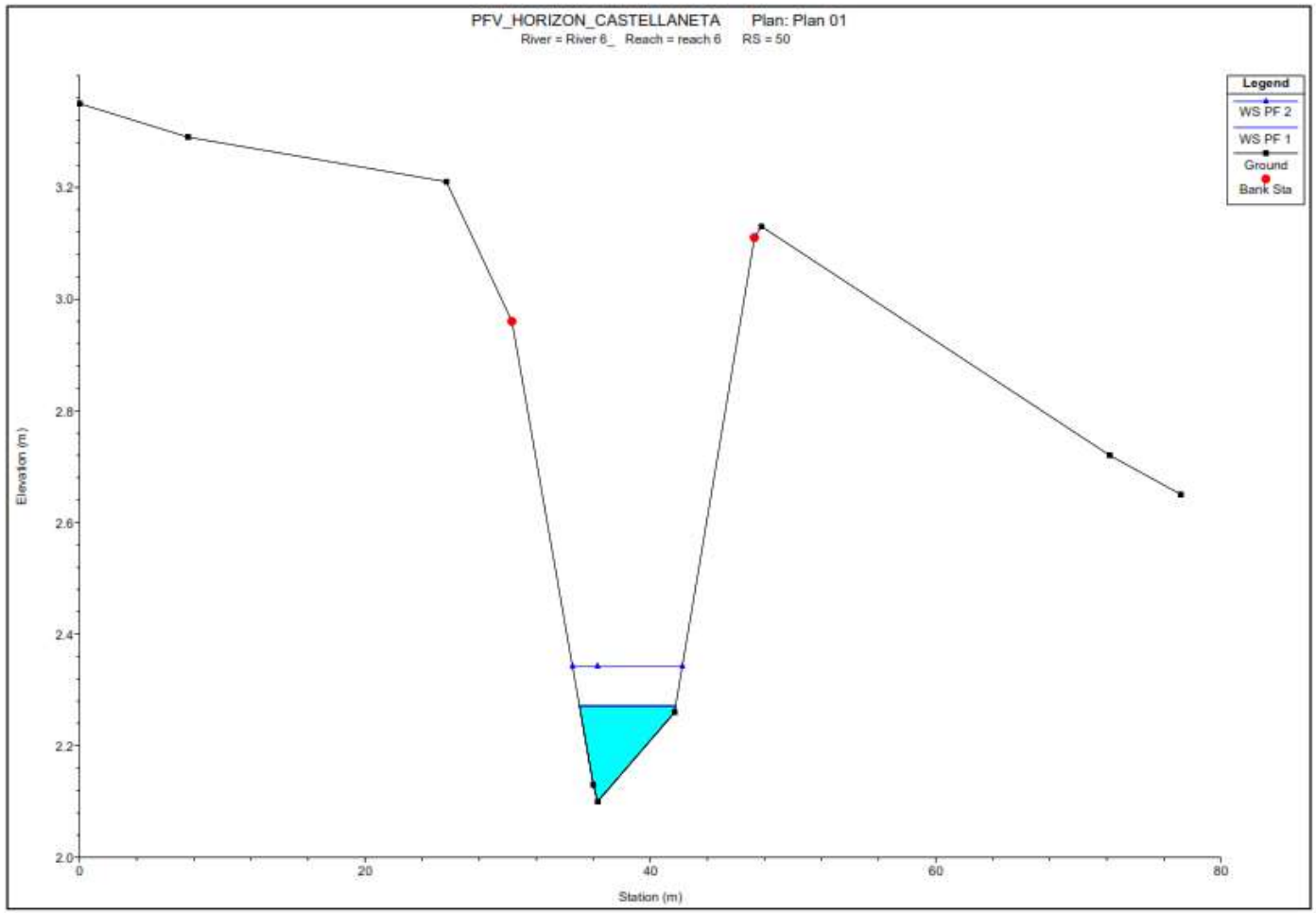

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 258
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.5
4.0
3.5
3.0
2.5
2.0
20
25
30
35
40
45

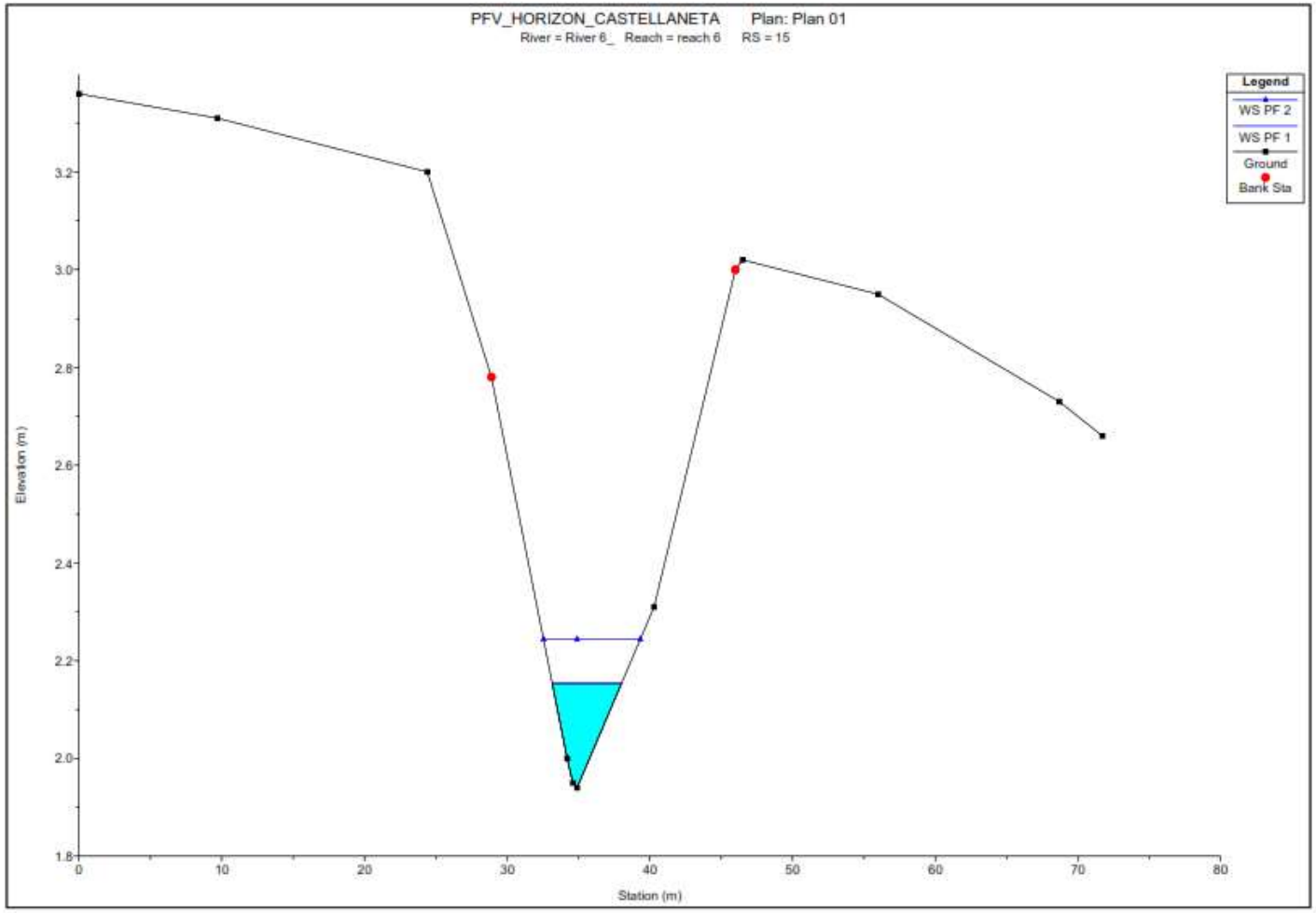

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 194
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
0
5
10
15
20
25
30
35

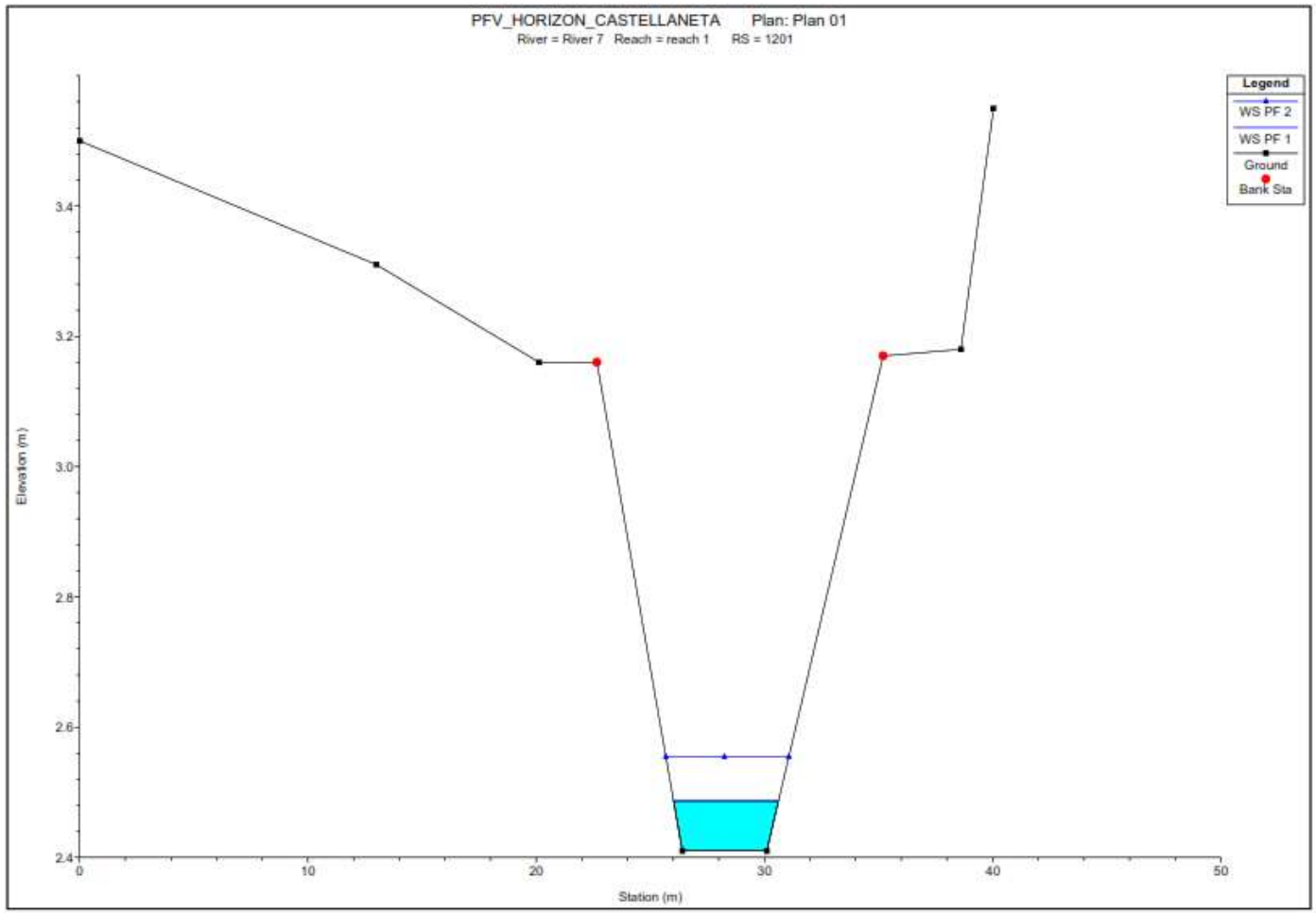

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 159
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
0
5
10
15
20
25
30
35

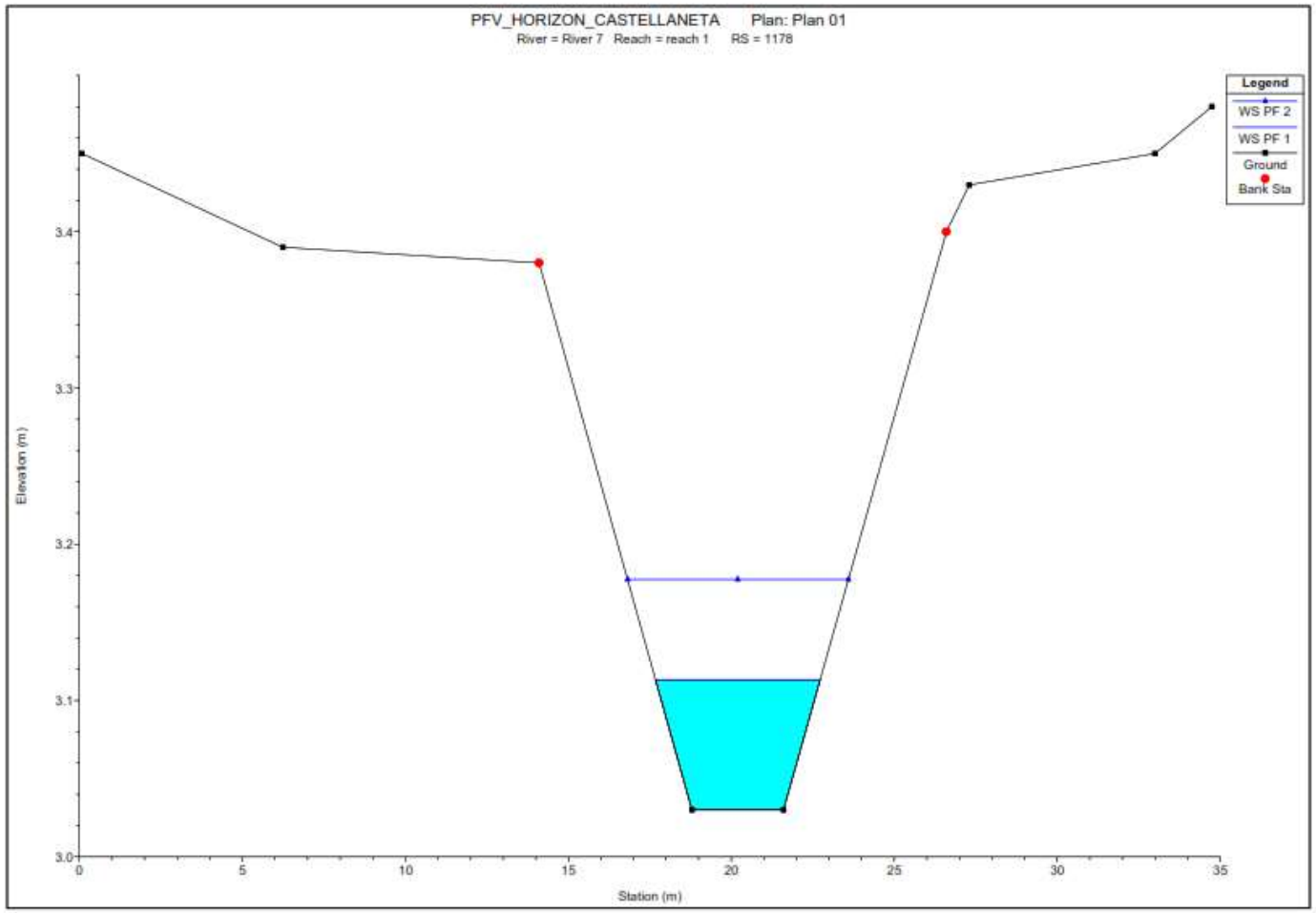

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 5_ Reach = reach 5 RS = 61
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
20
25
30
35
40
45
50

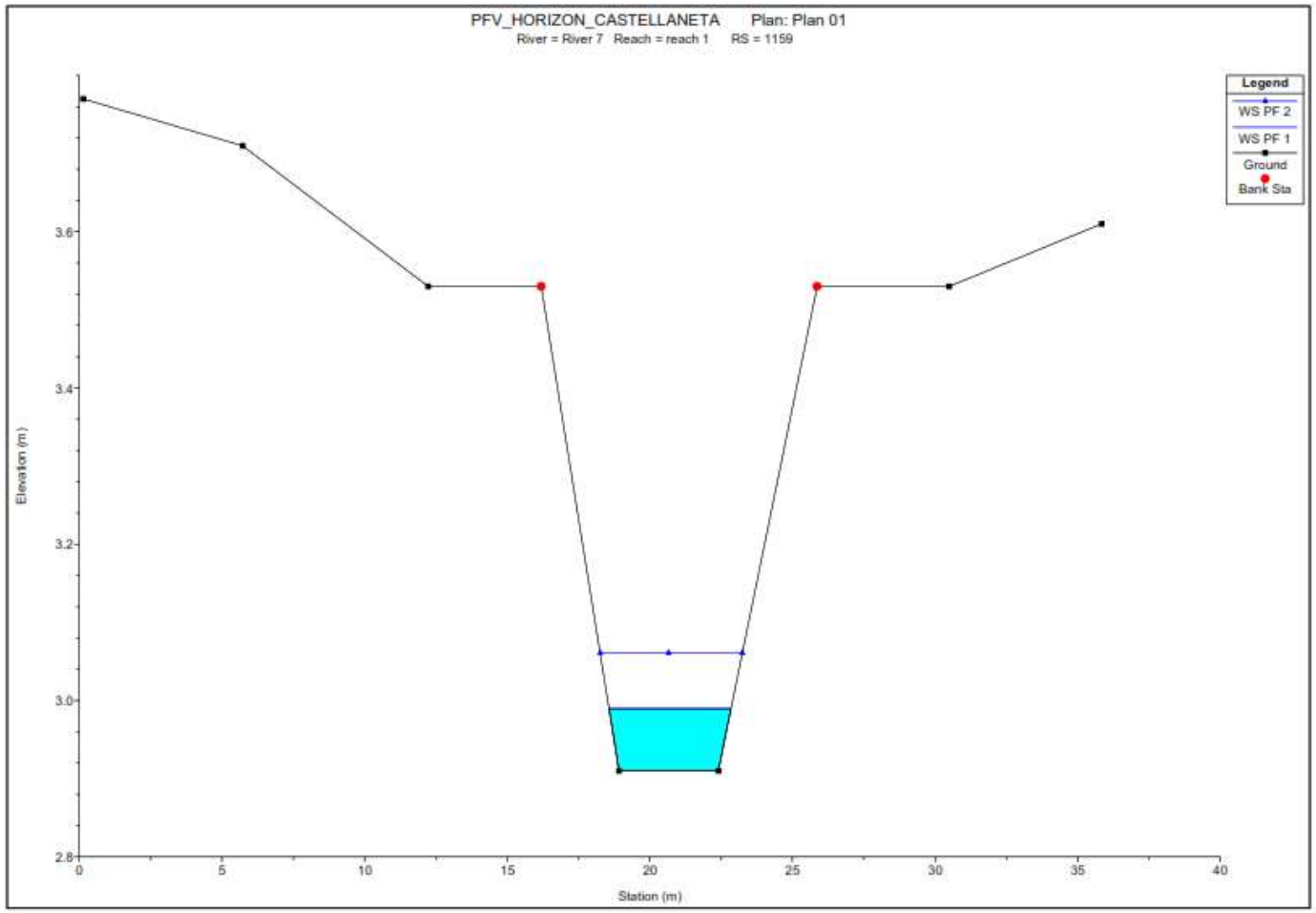

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 6_ Reach = reach 6 RS = 101
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.4
2.6
2.8
3.0
3.2
3.4
0
10
20
30
40
50
60
70

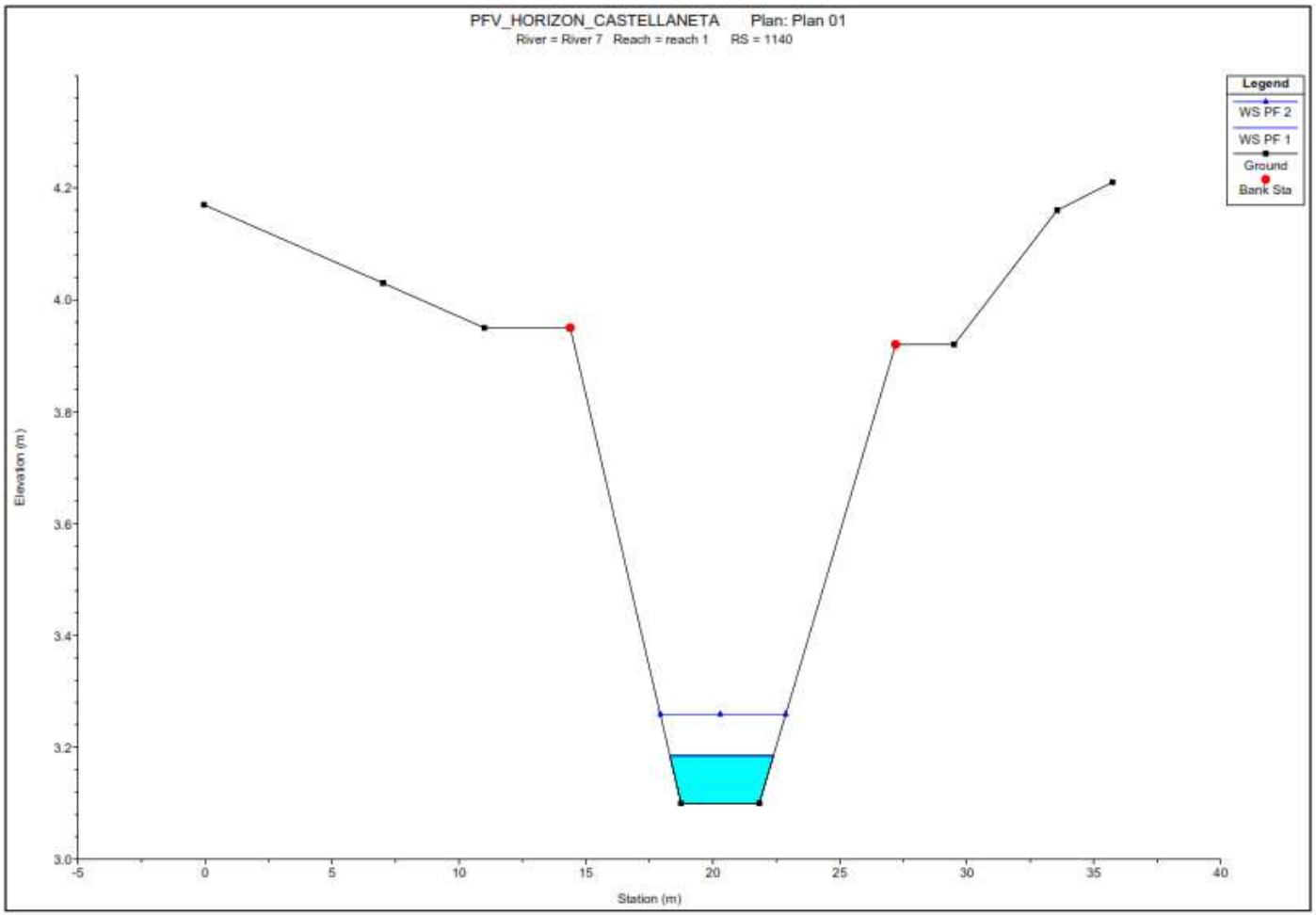

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 6_ Reach = reach 6 RS = 50
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.0
2.2
2.4
2.6
2.8
3.0
3.2
0
20
40
60
80

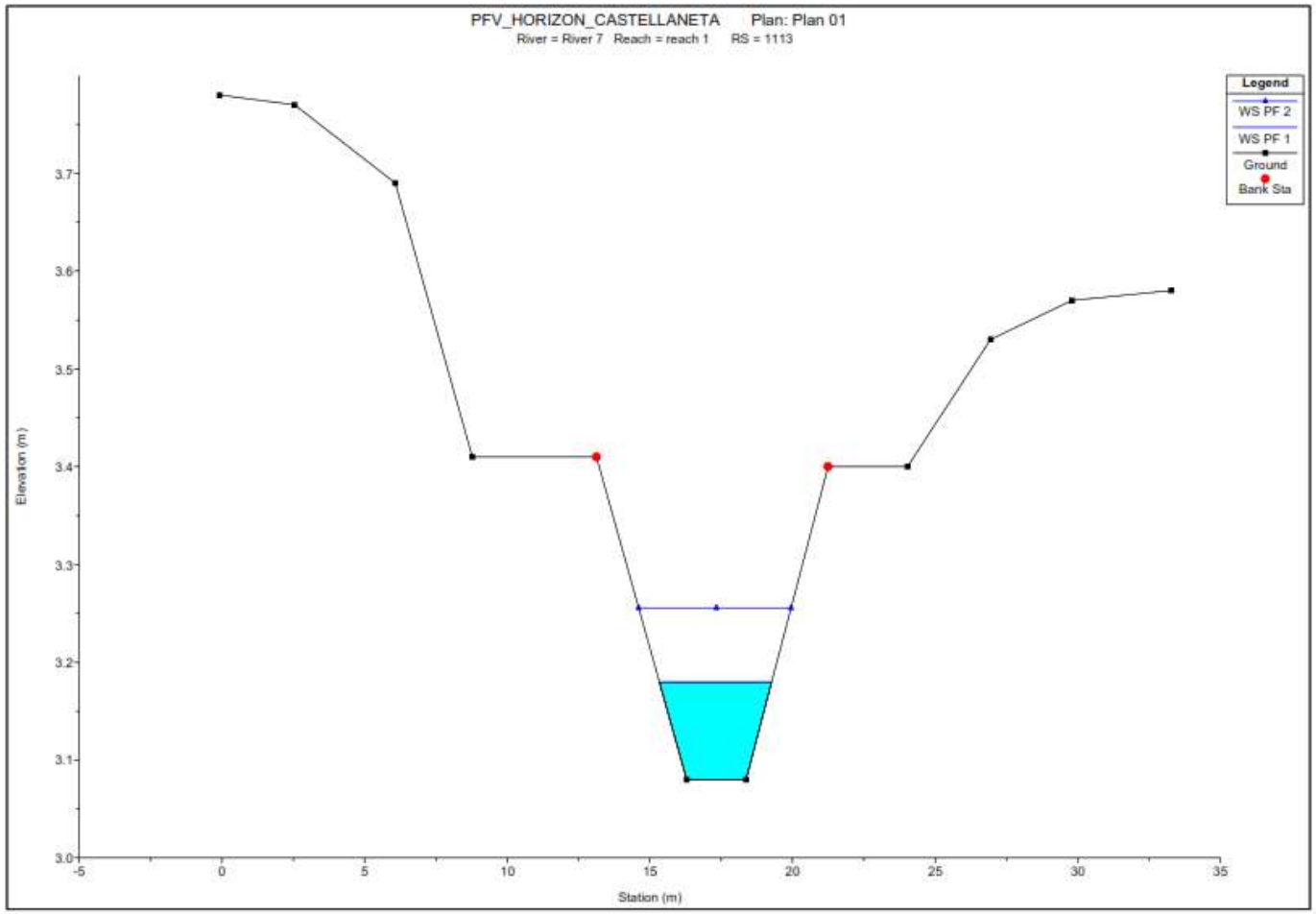

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 6_ Reach = reach 6 RS = 15
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
0
10
20
30
40
50
60
70
80

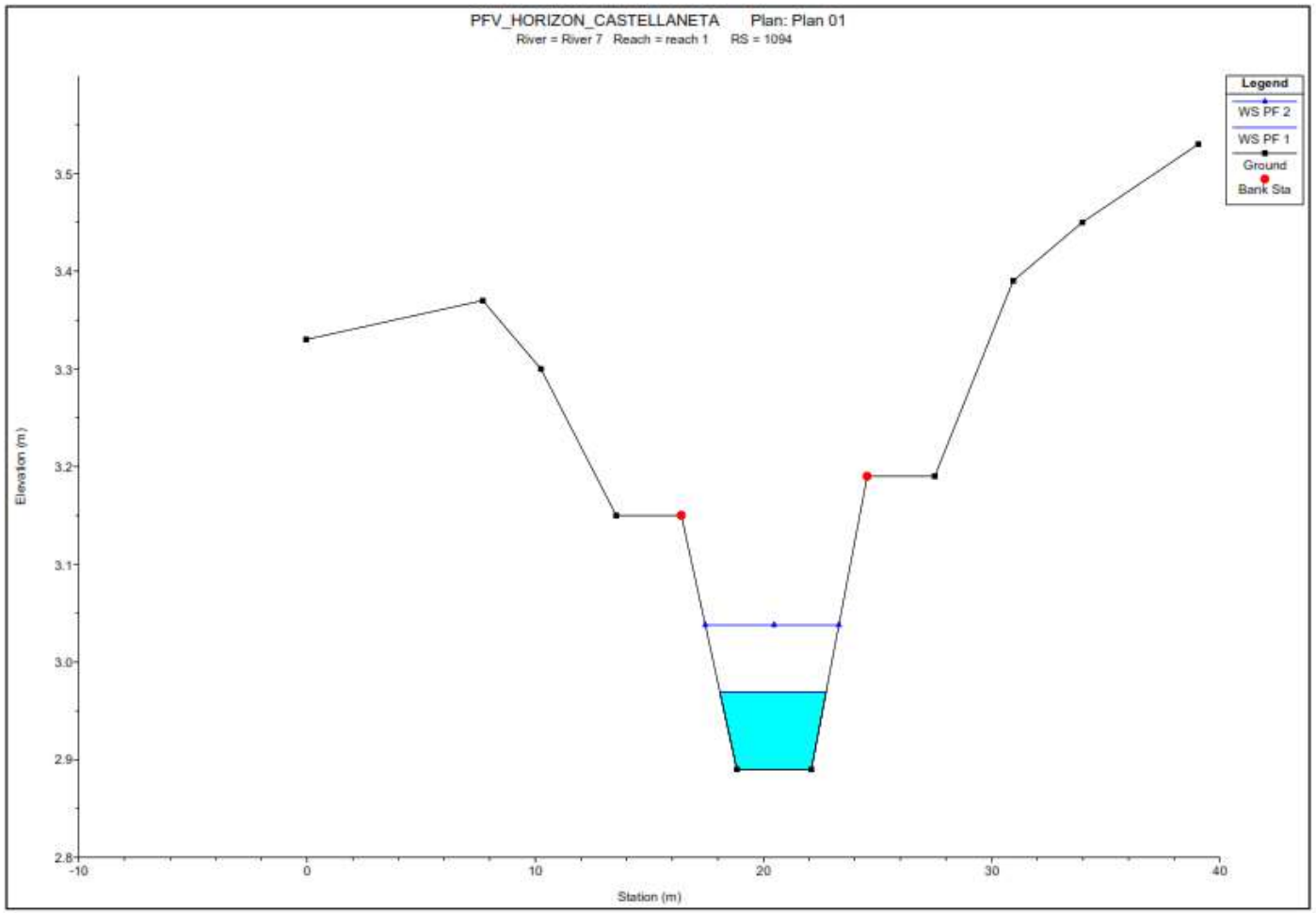

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1201
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.4
2.6
2.8
3.0
3.2
3.4
0
10
20
30
40
50

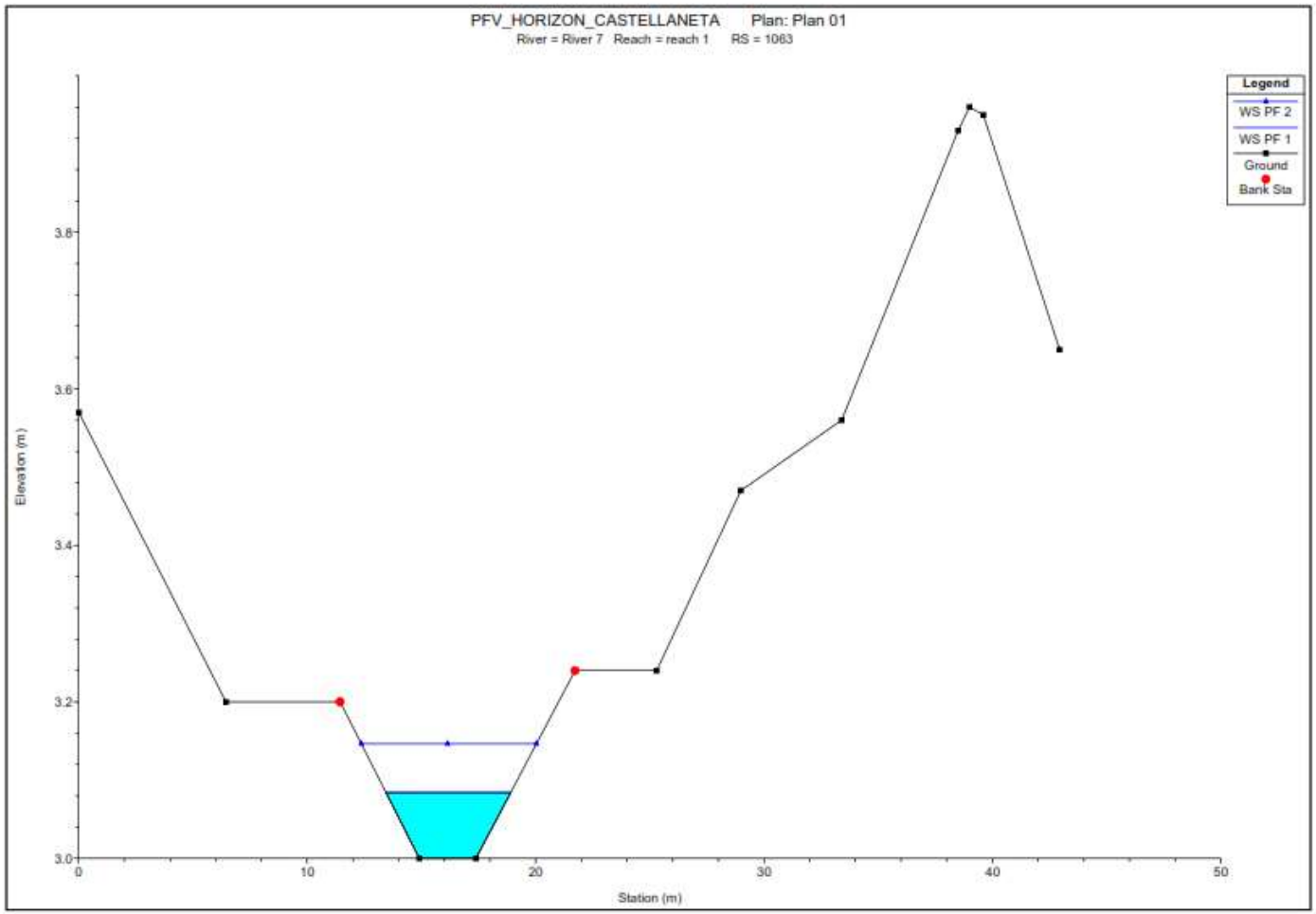

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1178
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.0
3.1
3.2
3.3
3.4
0
5
10
15
20
25
30
35

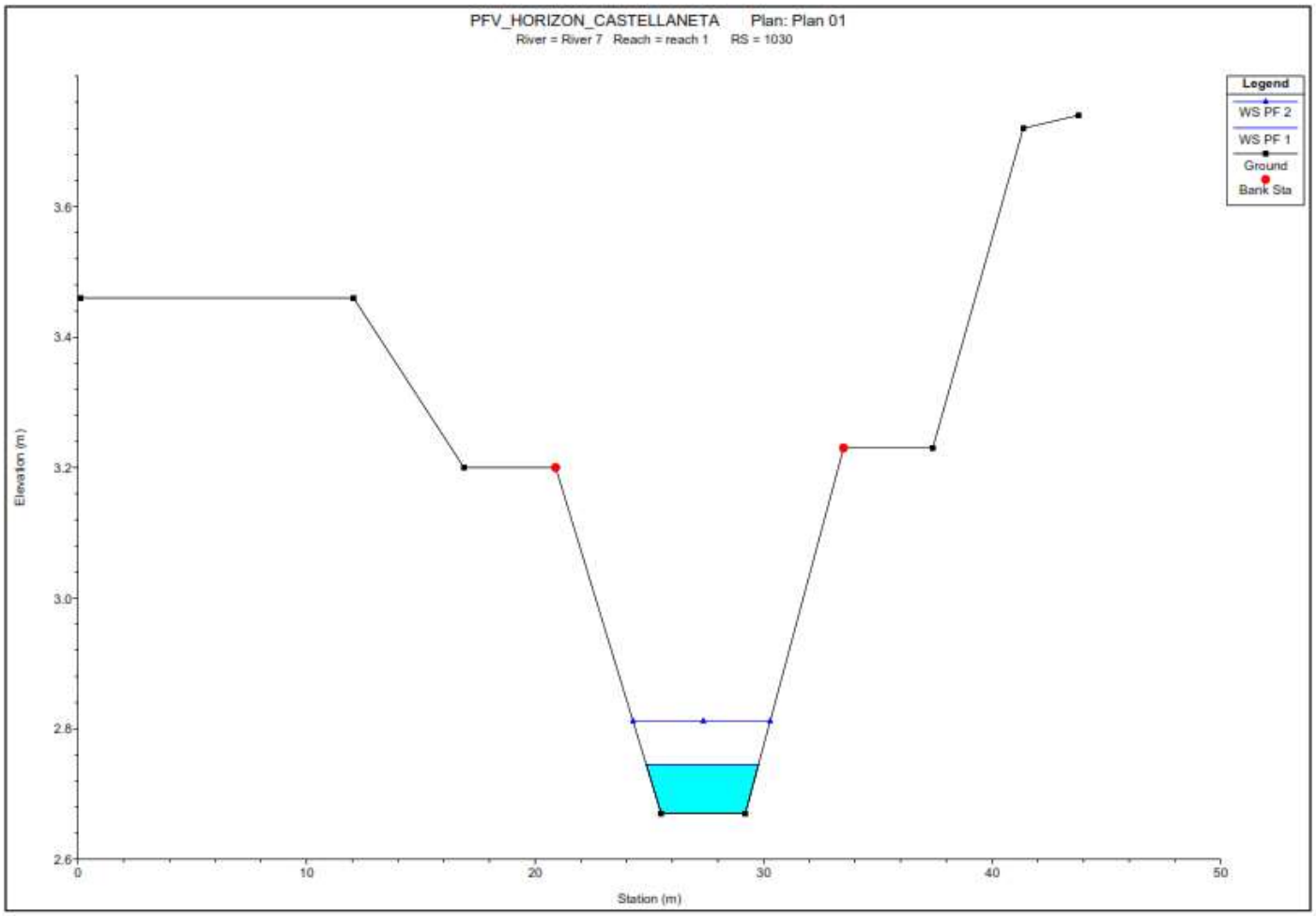

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1159
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.8
3.0
3.2
3.4
3.6
0
5
10
15
20
25
30
35
40

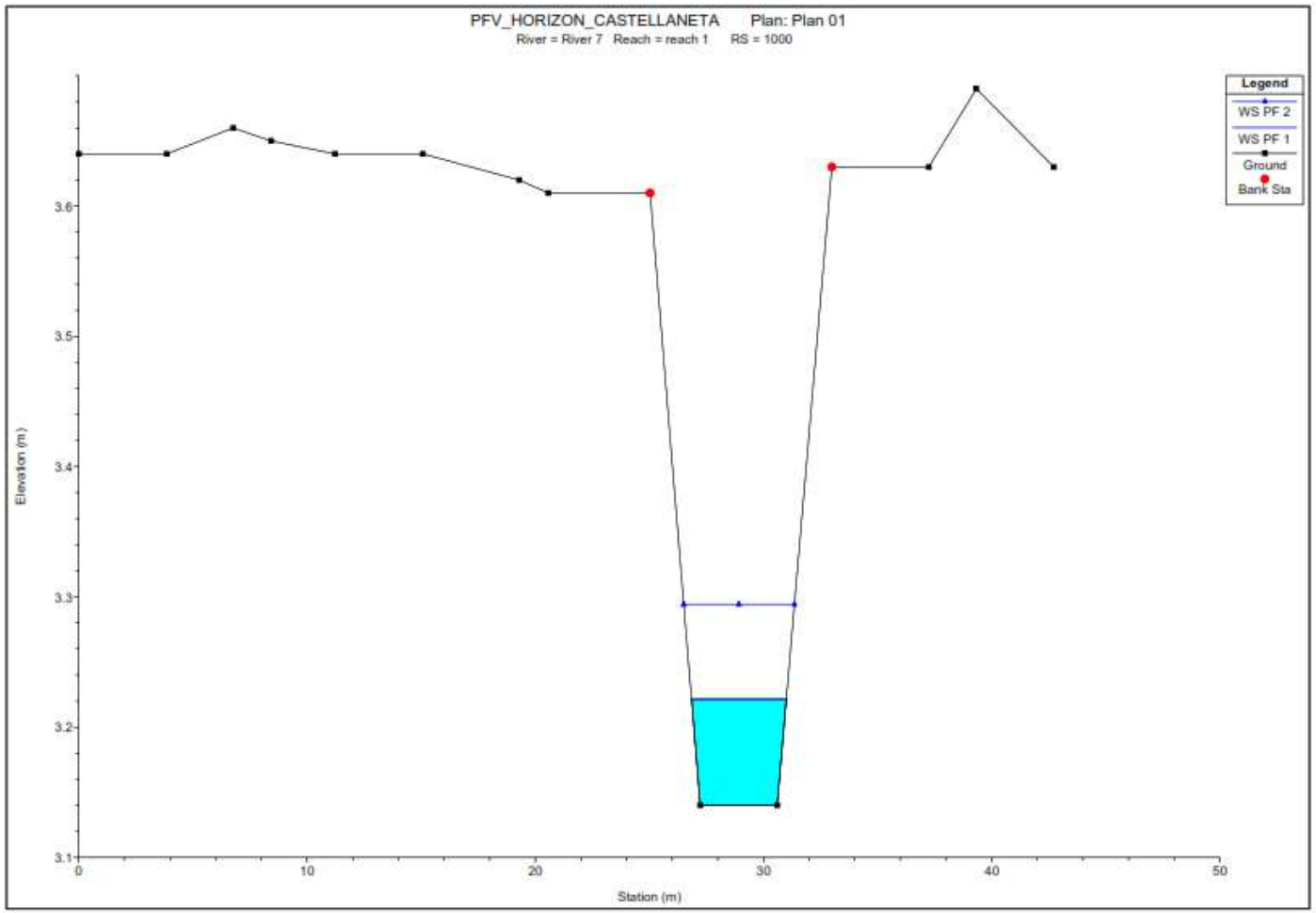

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1140
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
4.2
4.0
3.8
3.6
3.4
3.2
3.0
-5
0
5
10
15
20
25
30
35
40

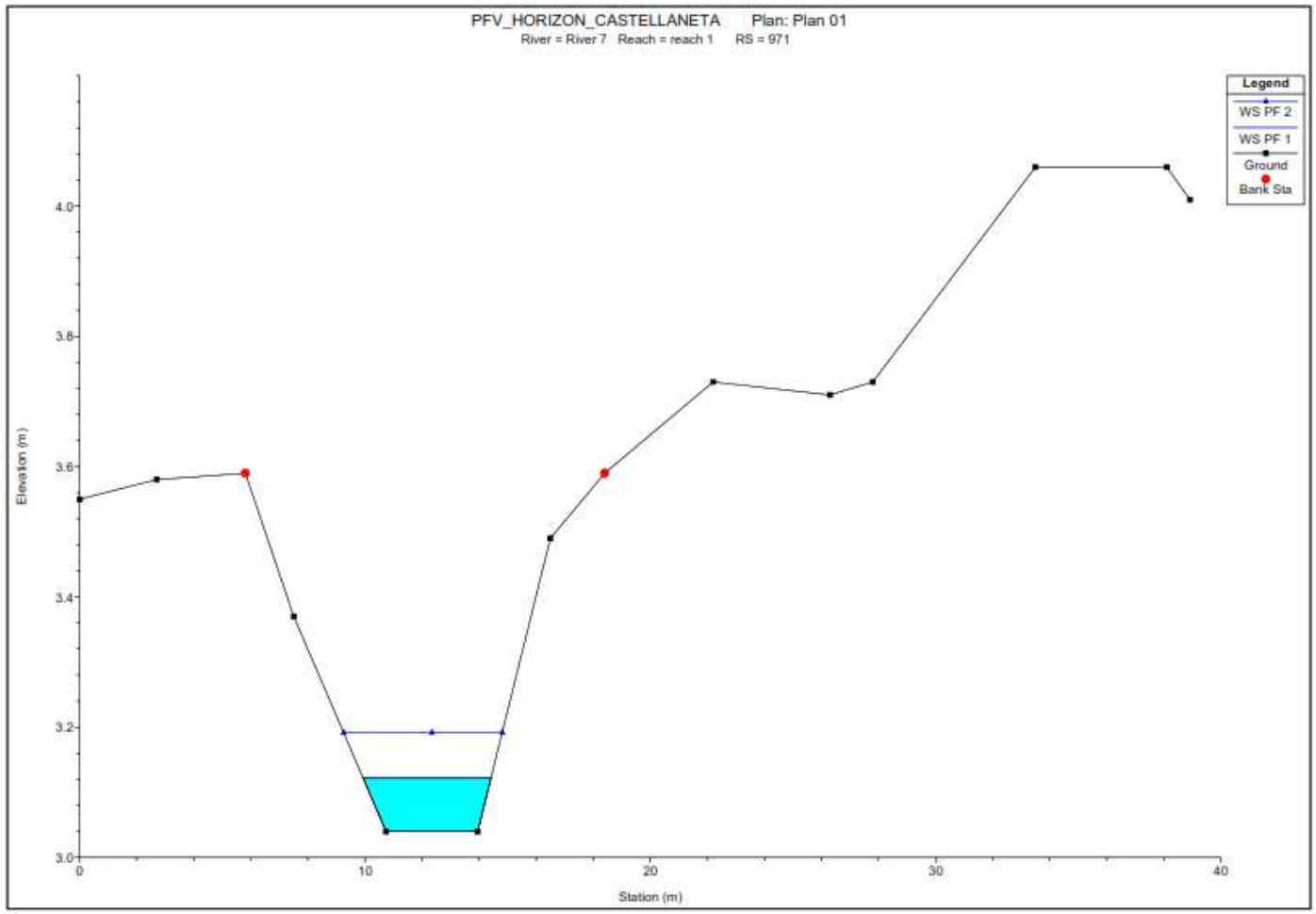

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1113
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
-5
0
5
10
15
20
25
30
35

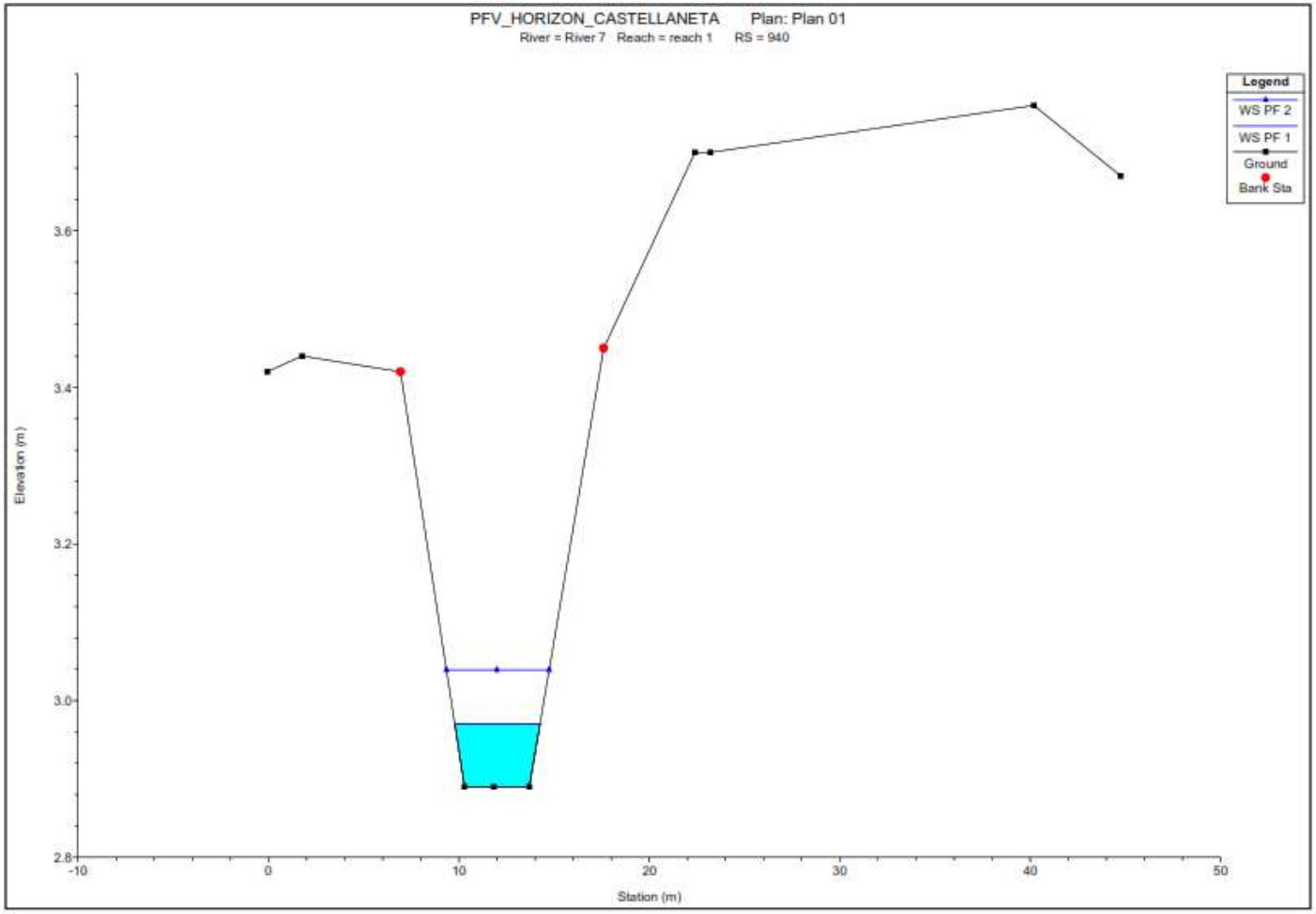

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1094
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
-10
0
10
20
30
40

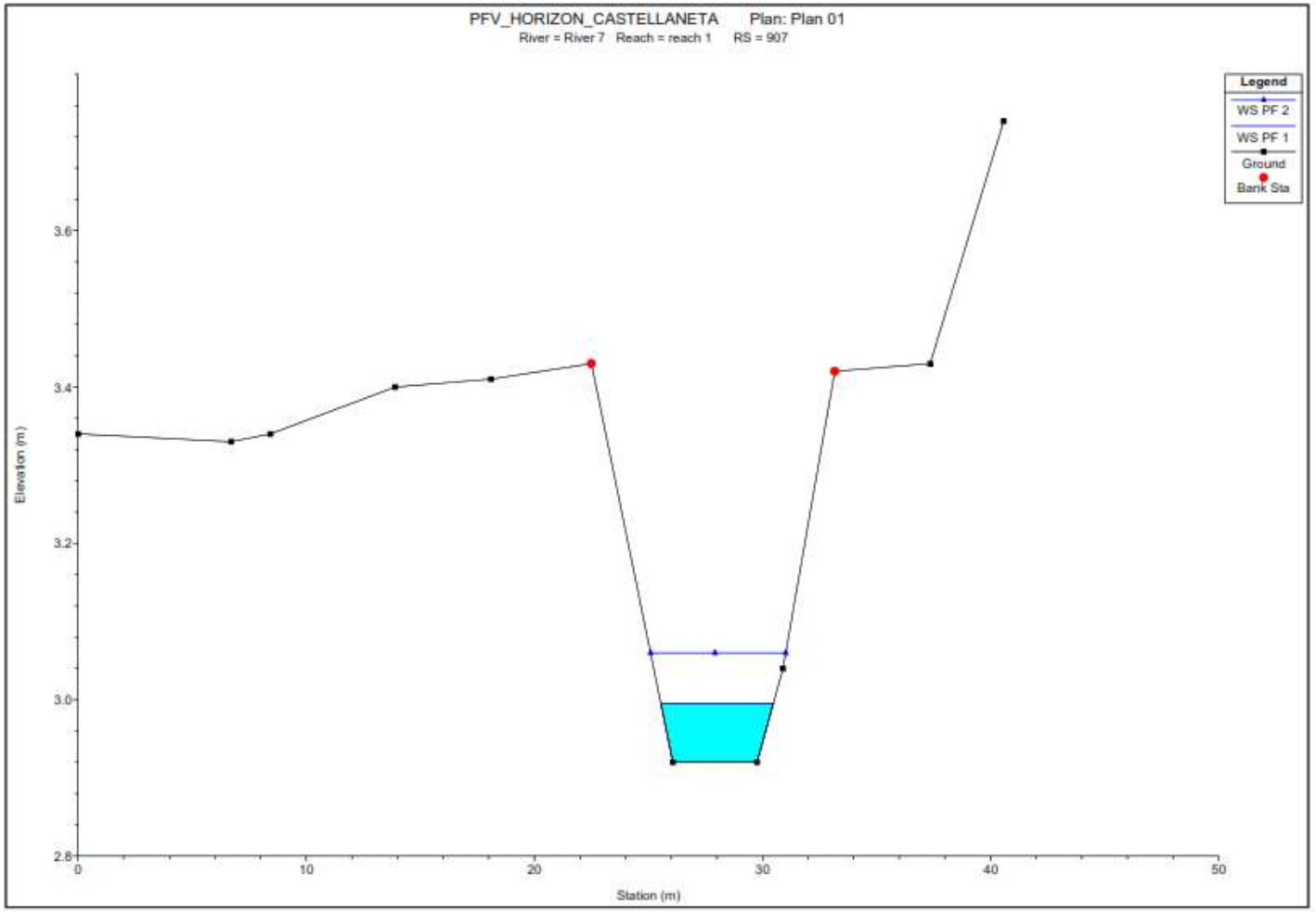

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1063
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.0
3.2
3.4
3.6
3.8
0
10
20
30
40
50

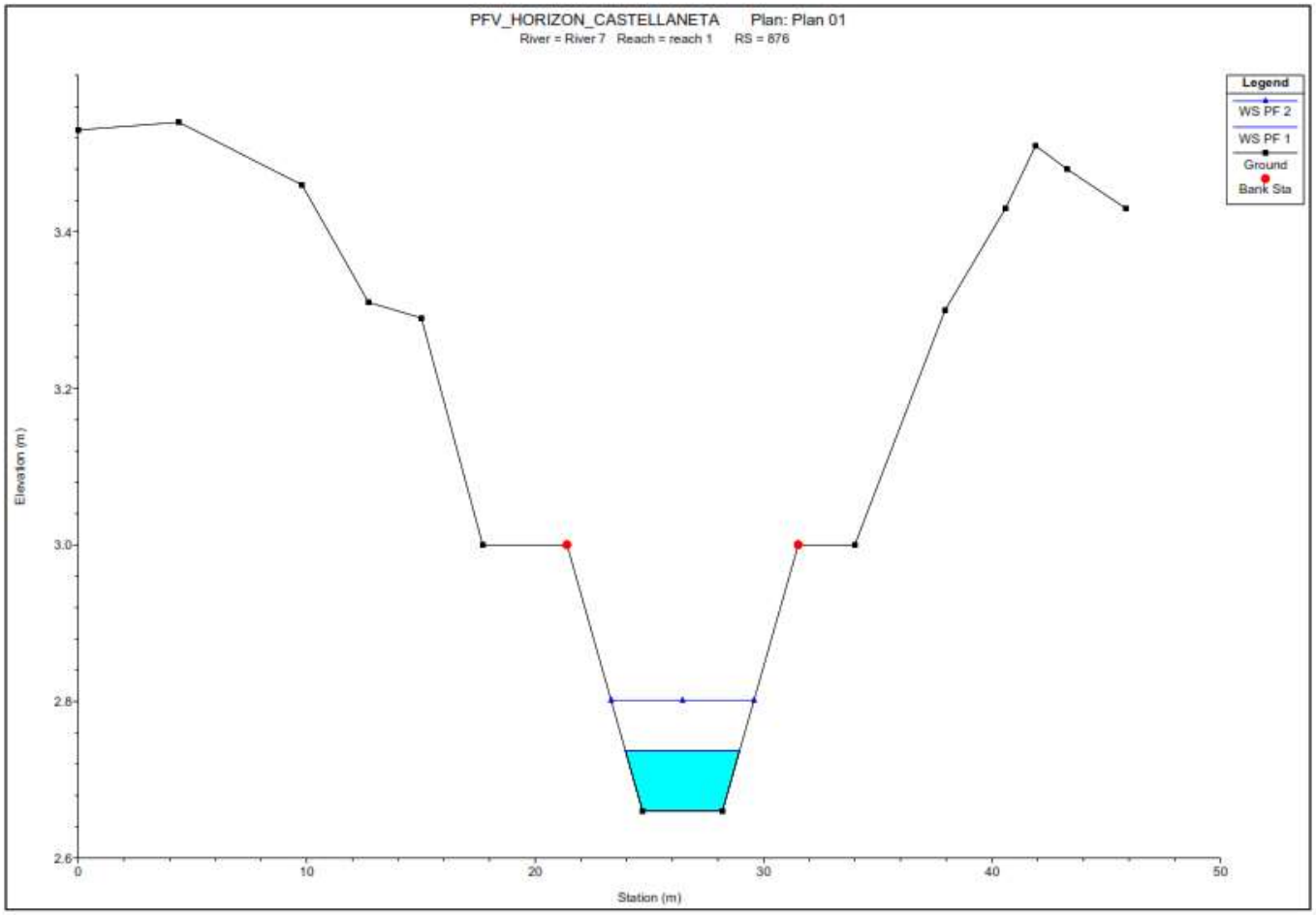

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1030
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.6
3.4
3.2
3.0
2.8
2.6
0
10
20
30
40
50

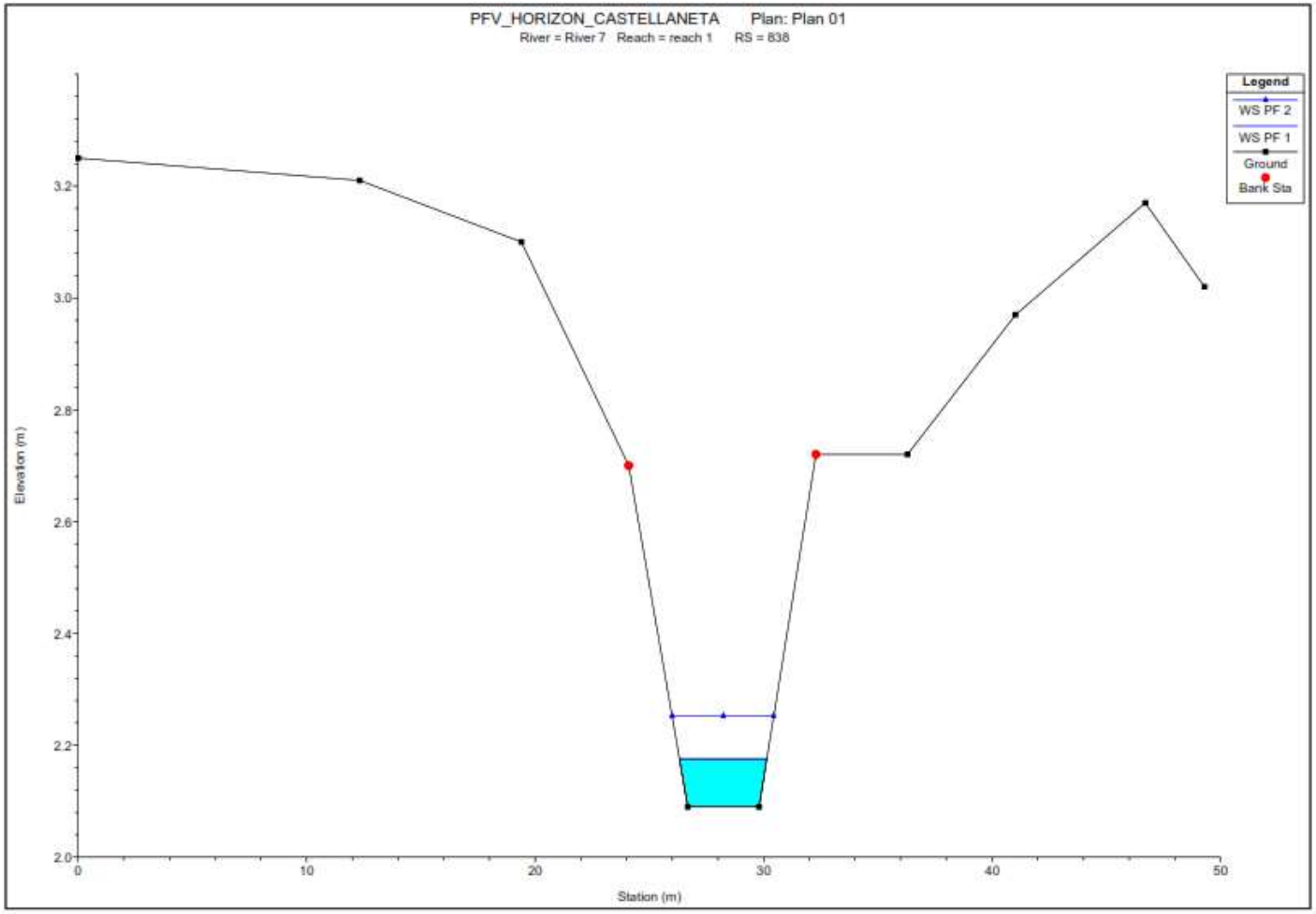

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 1000
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.1
3.2
3.3
3.4
3.5
3.6
0
10
20
30
40
50

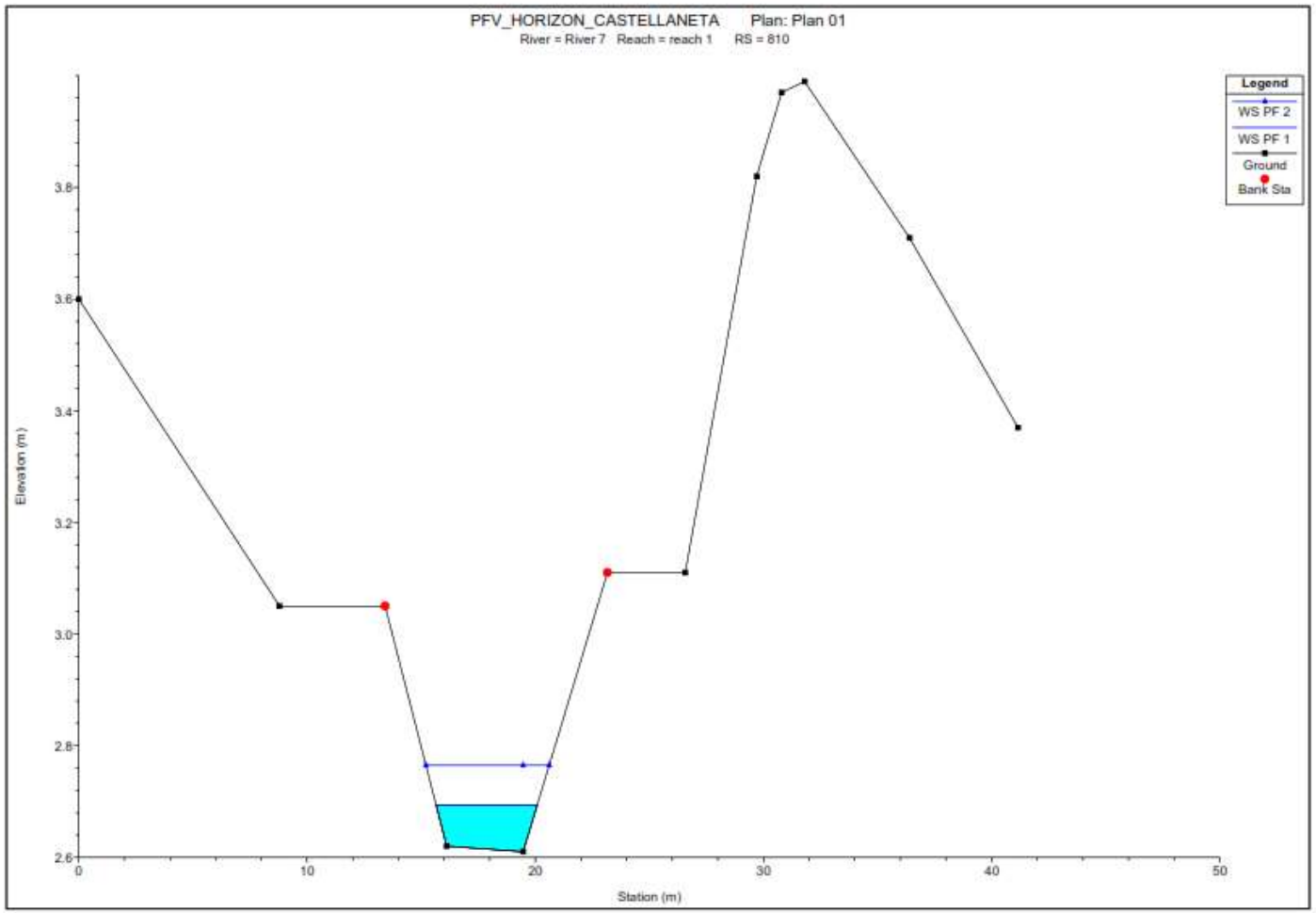

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 971
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.0
3.2
3.4
3.6
3.8
4.0
0
10
20
30
40

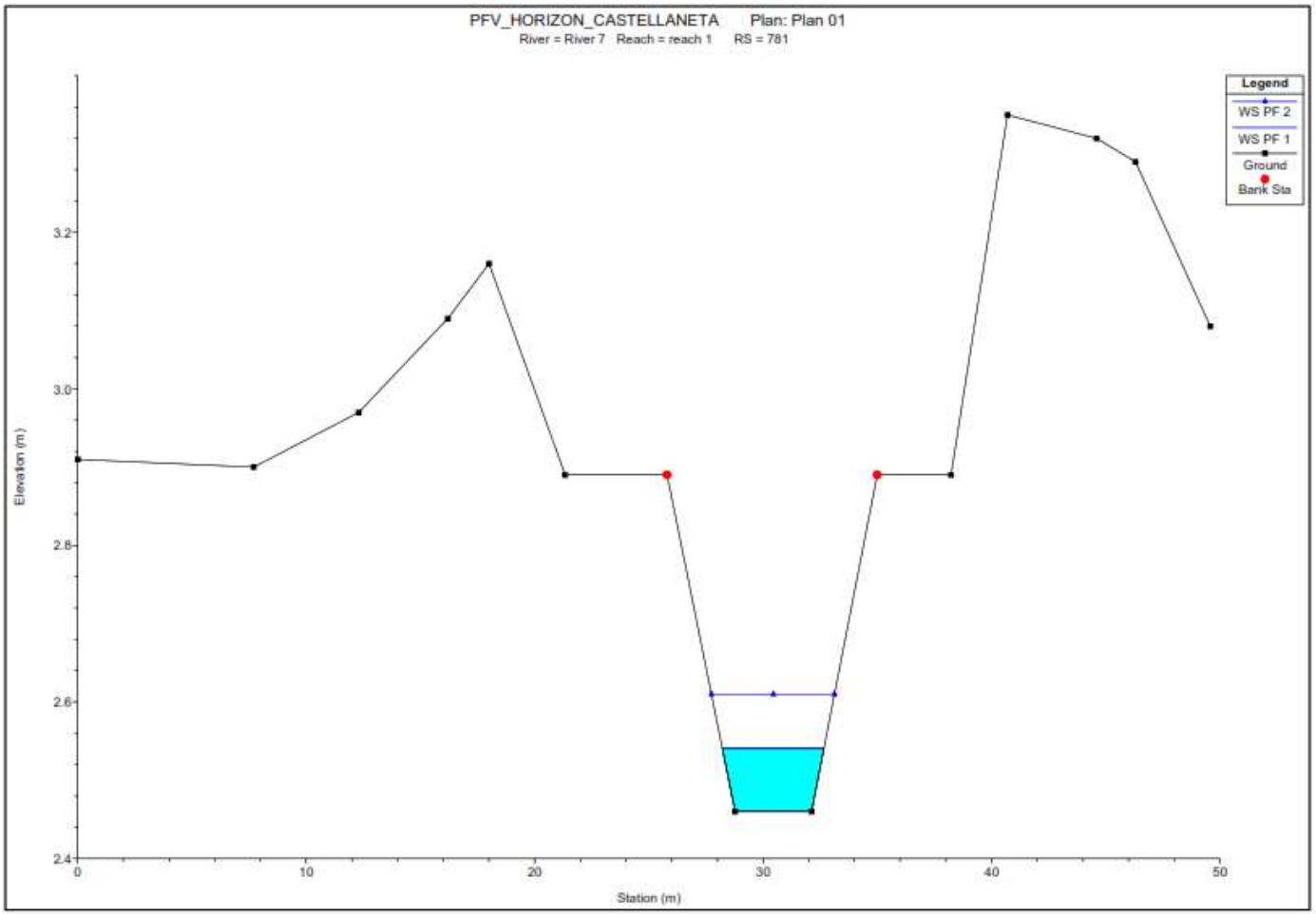

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 940
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
3.6
3.4
3.2
3.0
2.8
-10
0
10
20
30
40
50
Station (m)

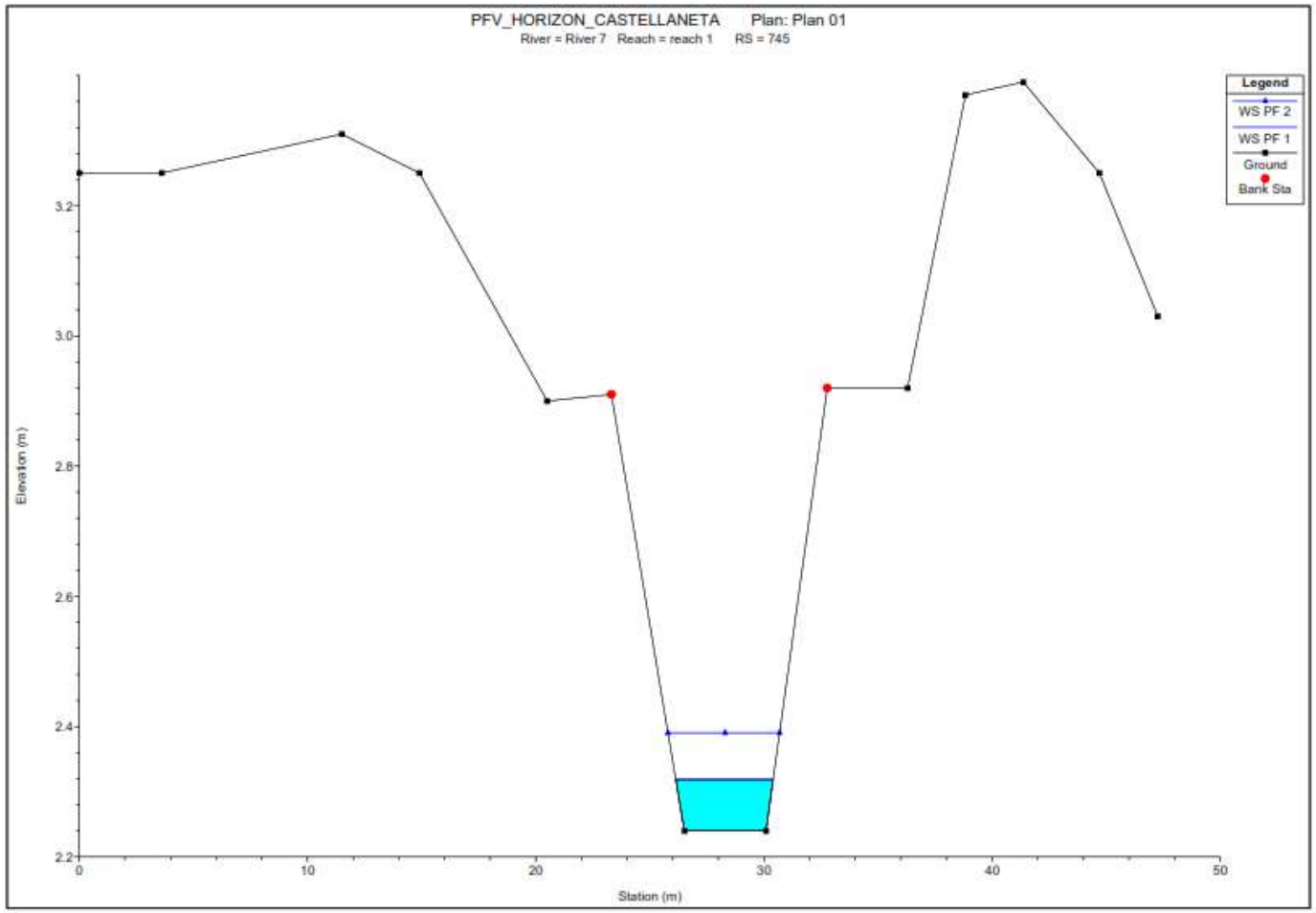

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 907
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
3.6
3.4
3.2
3.0
2.8
0
10
20
30
40
50
Station (m)

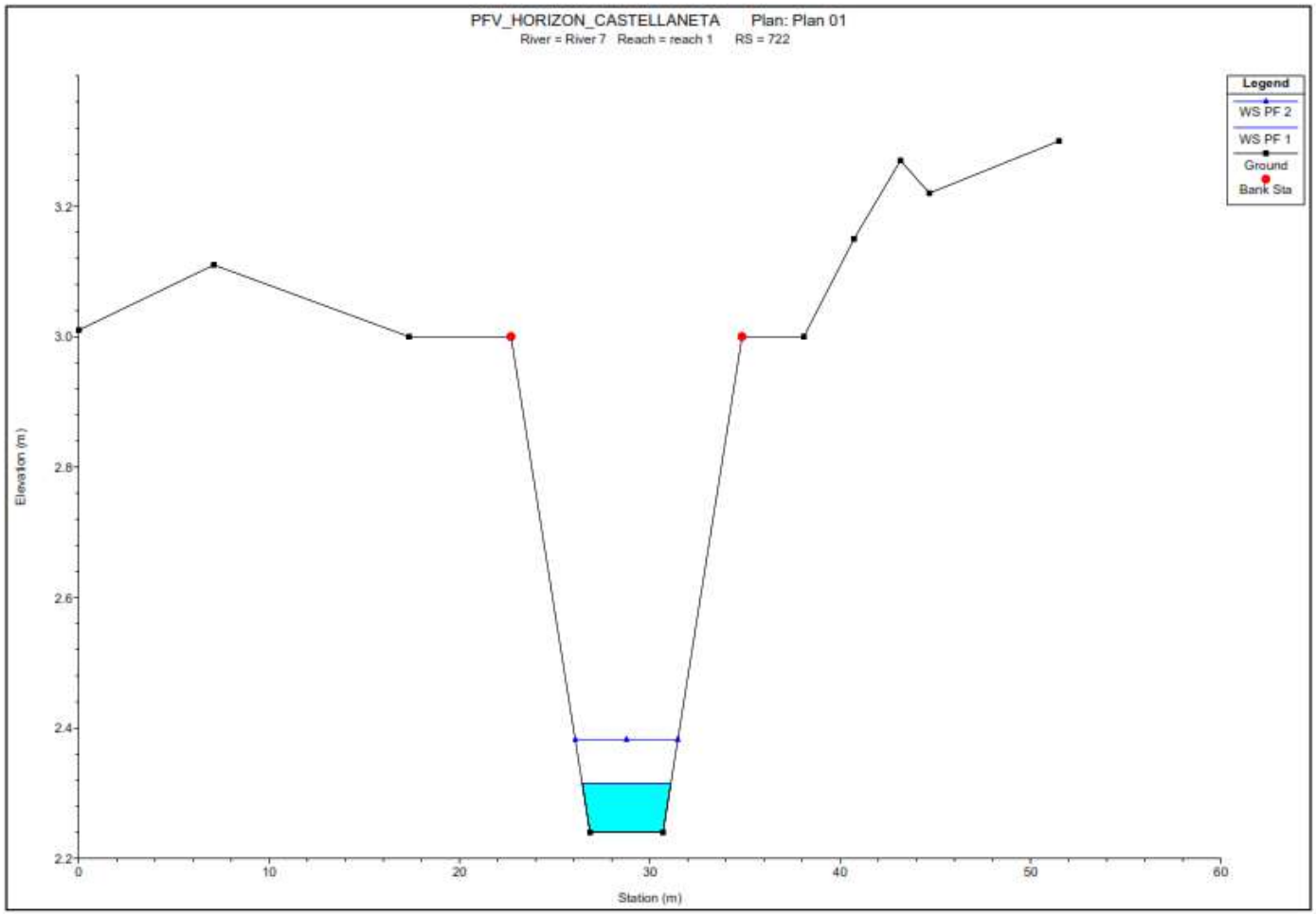

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 876
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.6
2.8
3.0
3.2
3.4
0
10
20
30
40
50

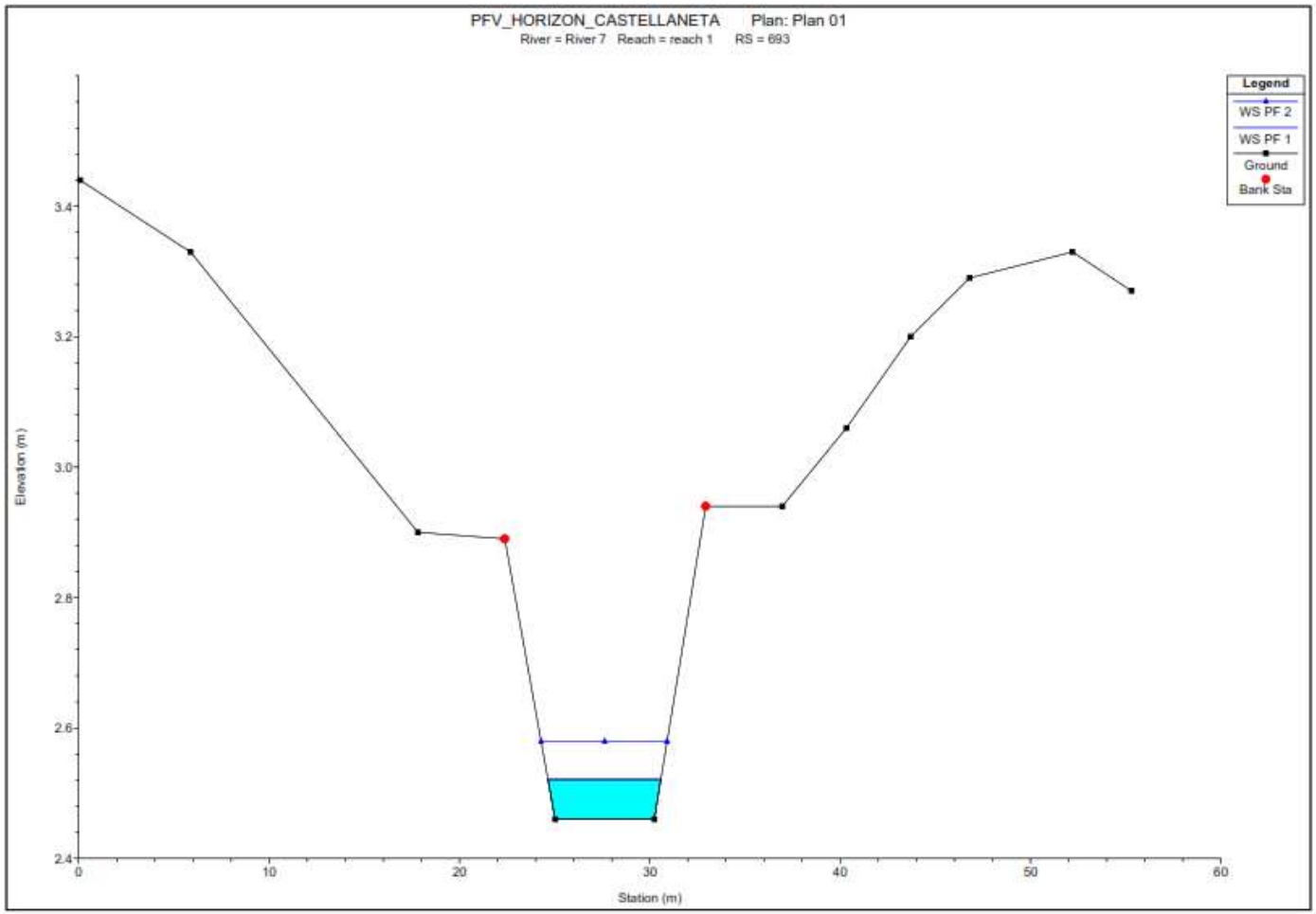

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 838
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.0
2.8
2.6
2.4
2.2
2.0
0
10
20
30
40
50

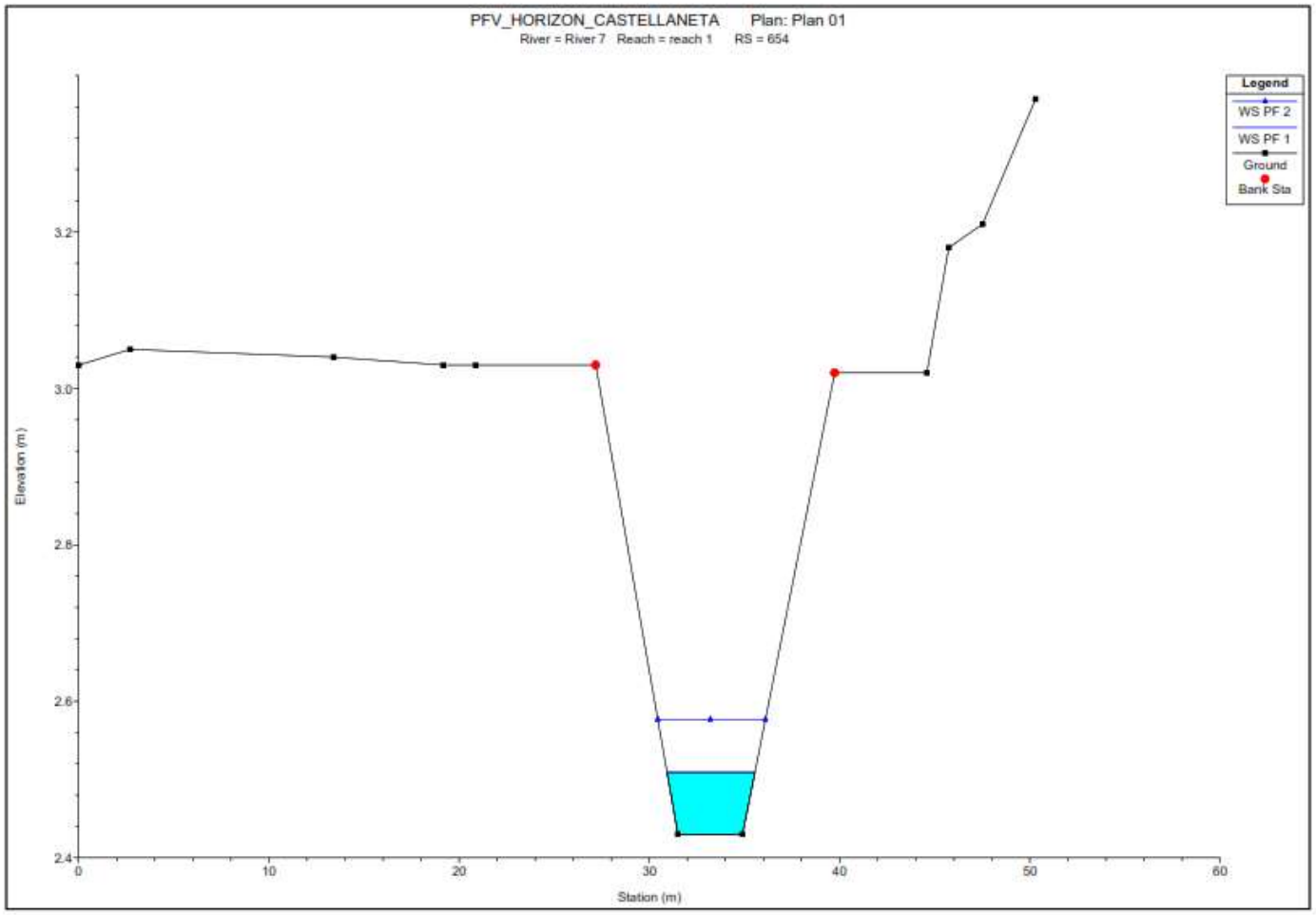

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 810
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.8
3.6
3.4
3.2
3.0
2.8
2.6
0
10
20
30
40
50

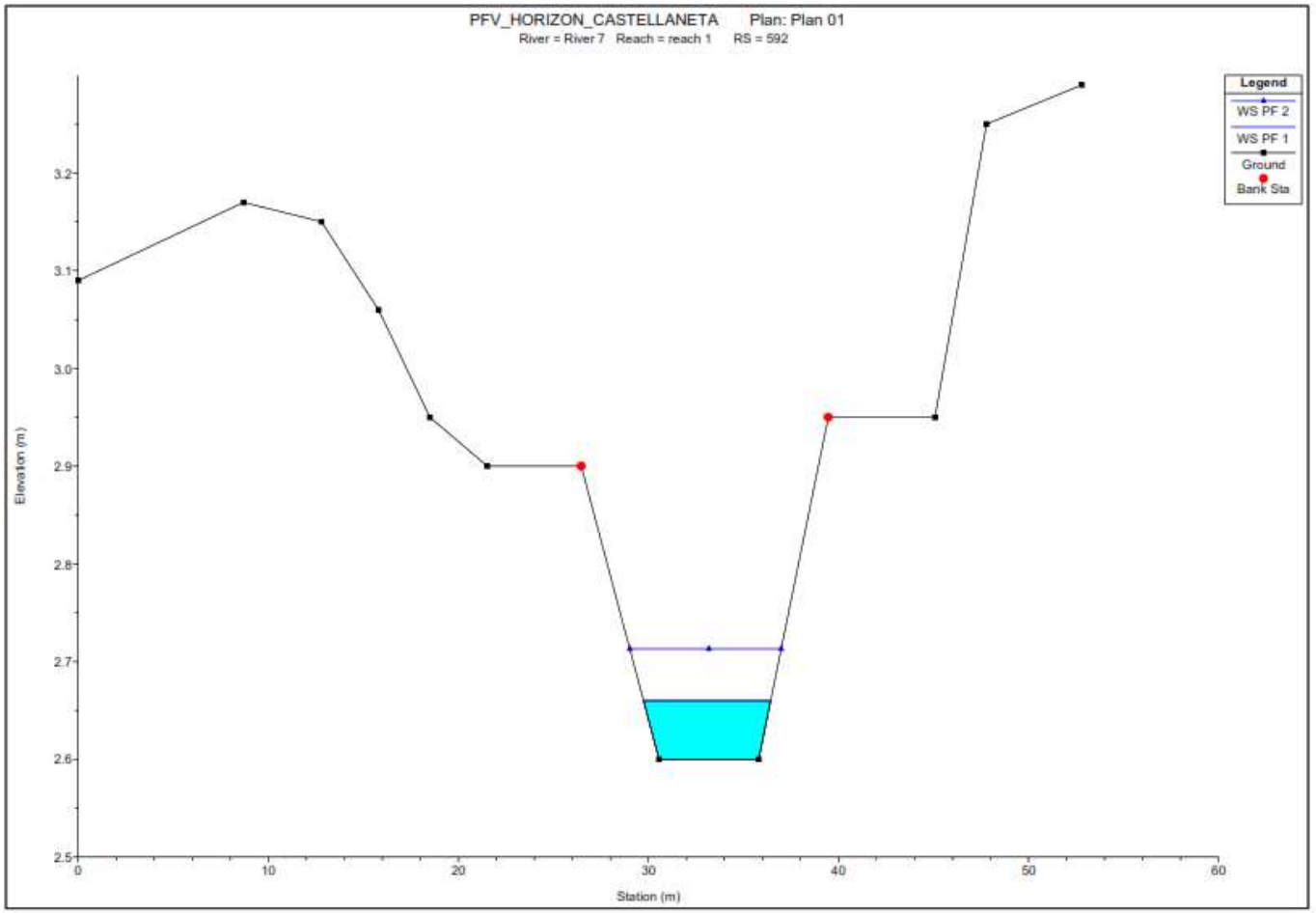

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 781
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.0
2.8
2.6
2.4
0
10
20
30
40
50

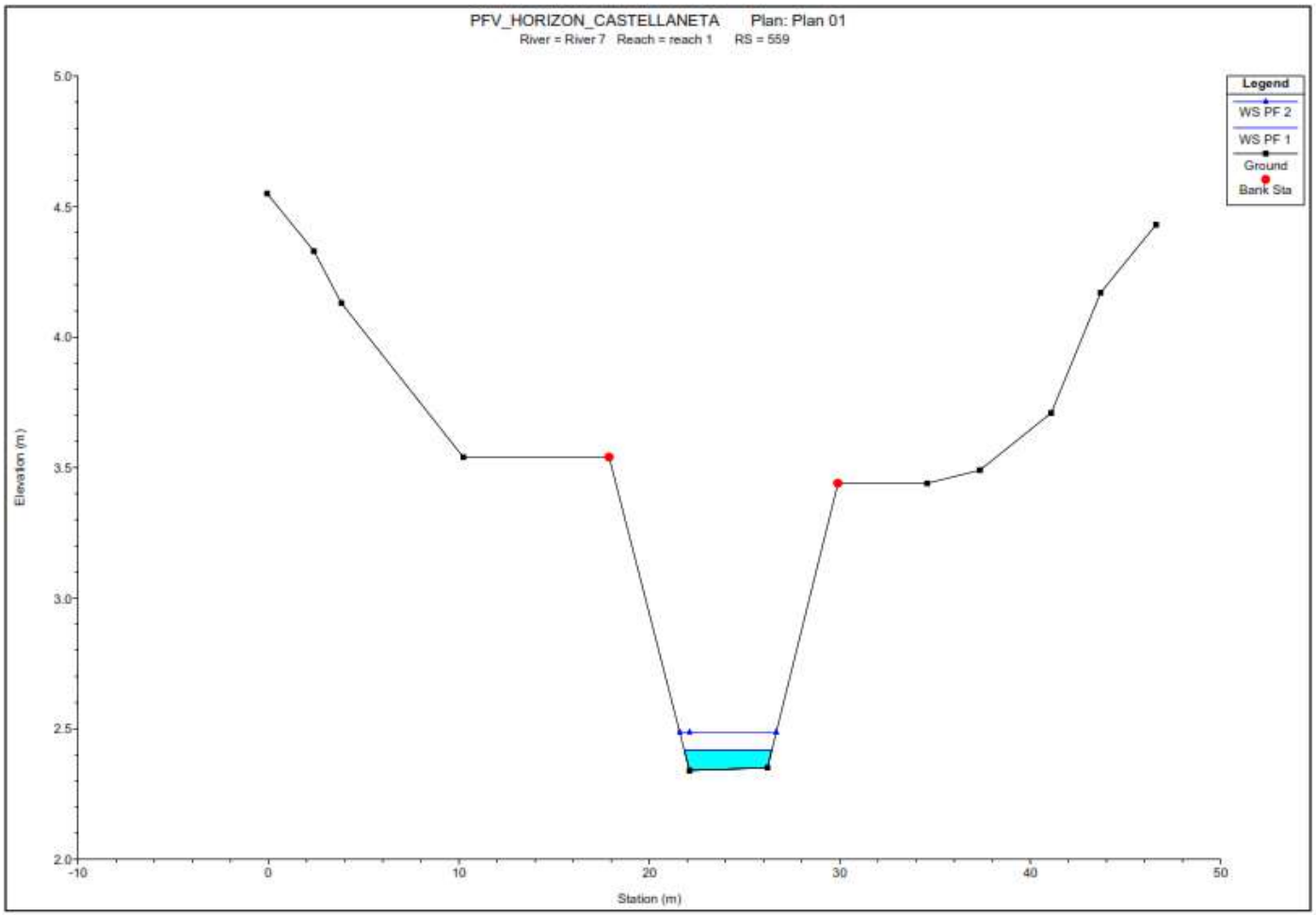

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 745
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.0
2.8
2.6
2.4
2.2
0
10
20
30
40
50

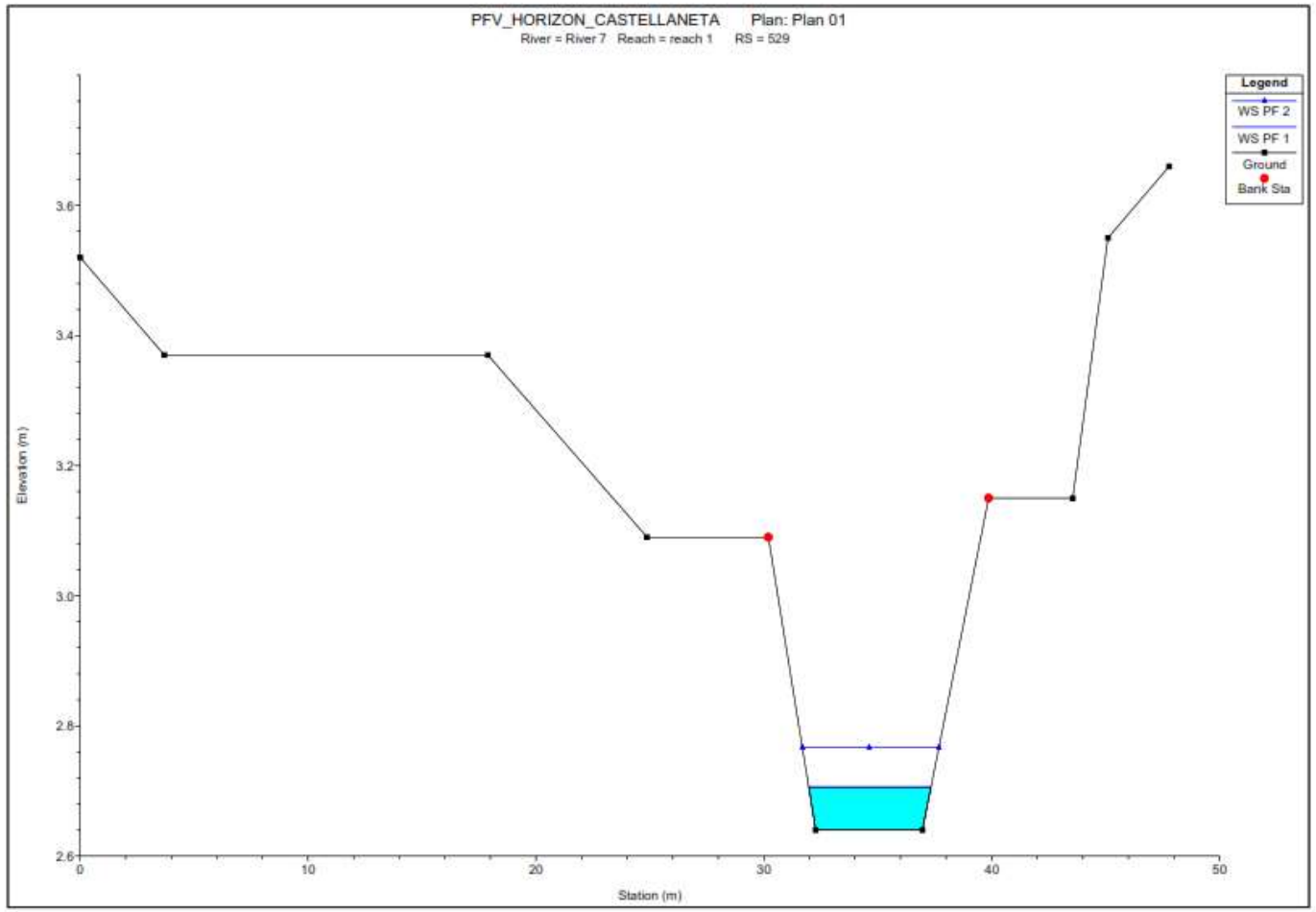

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 722
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.0
2.8
2.6
2.4
2.2
0
10
20
30
40
50
60

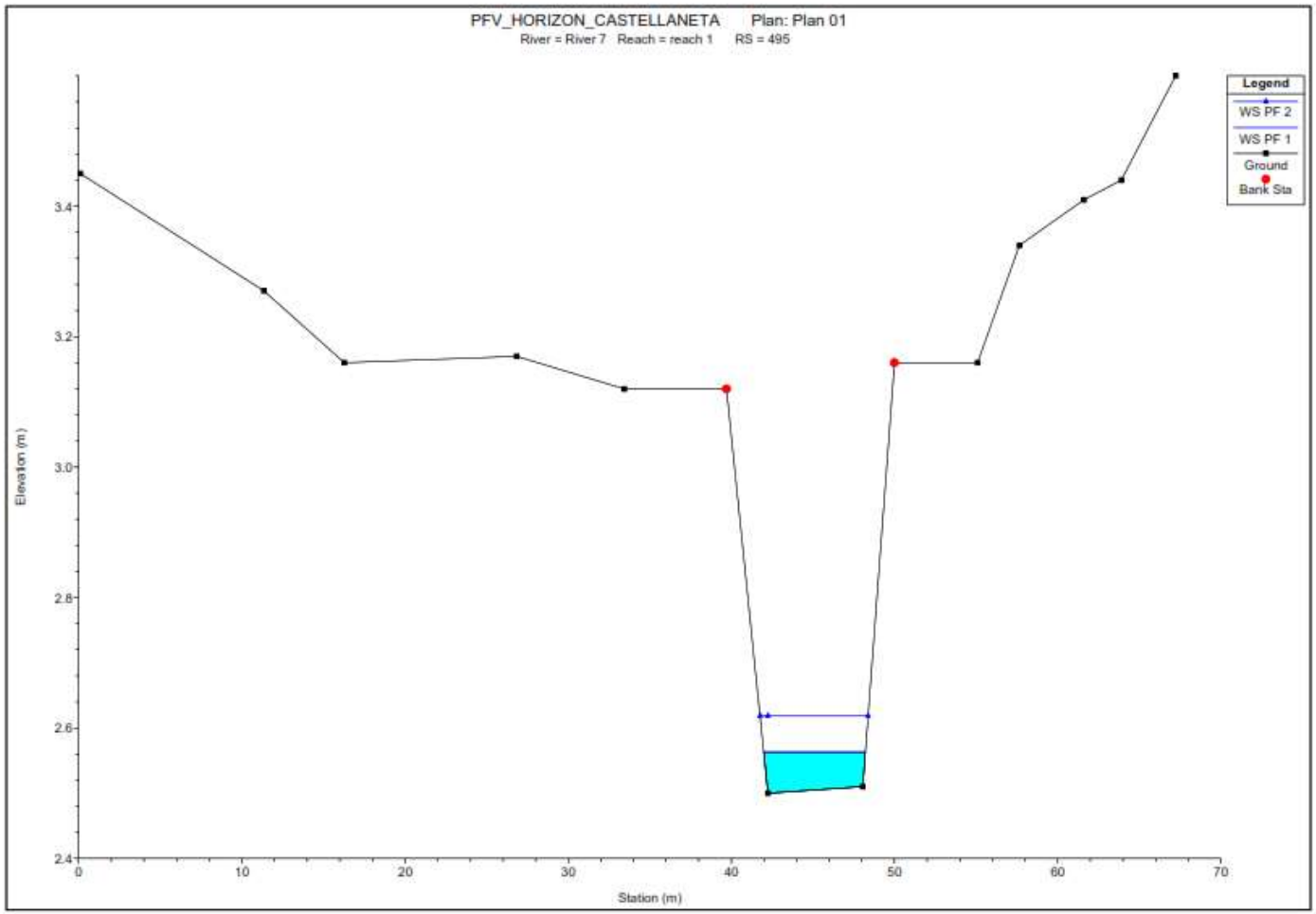

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 693
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.4
2.6
2.8
3.0
3.2
3.4
0
10
20
30
40
50
60

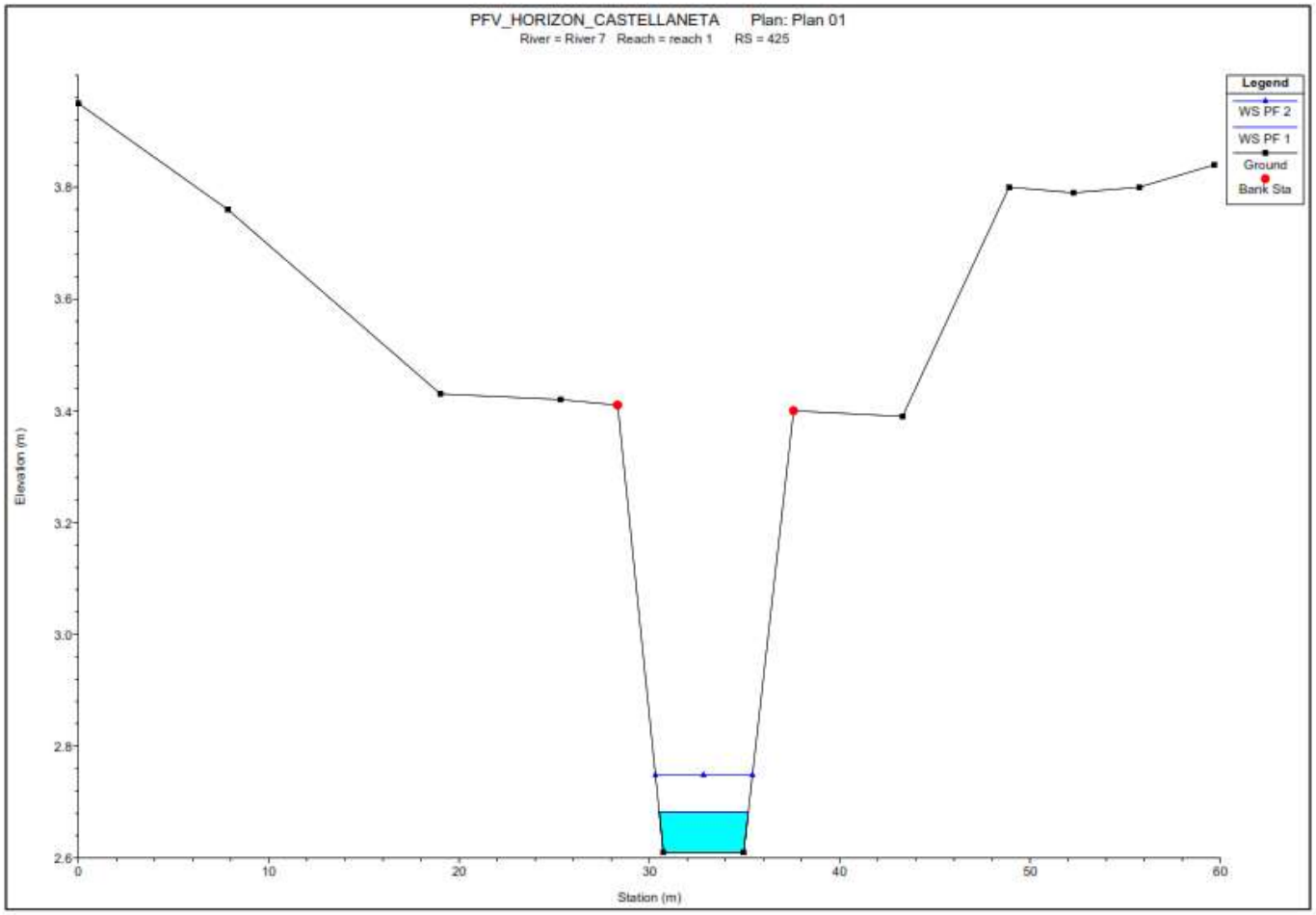

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 654
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.0
2.8
2.6
2.4
0
10
20
30
40
50
60

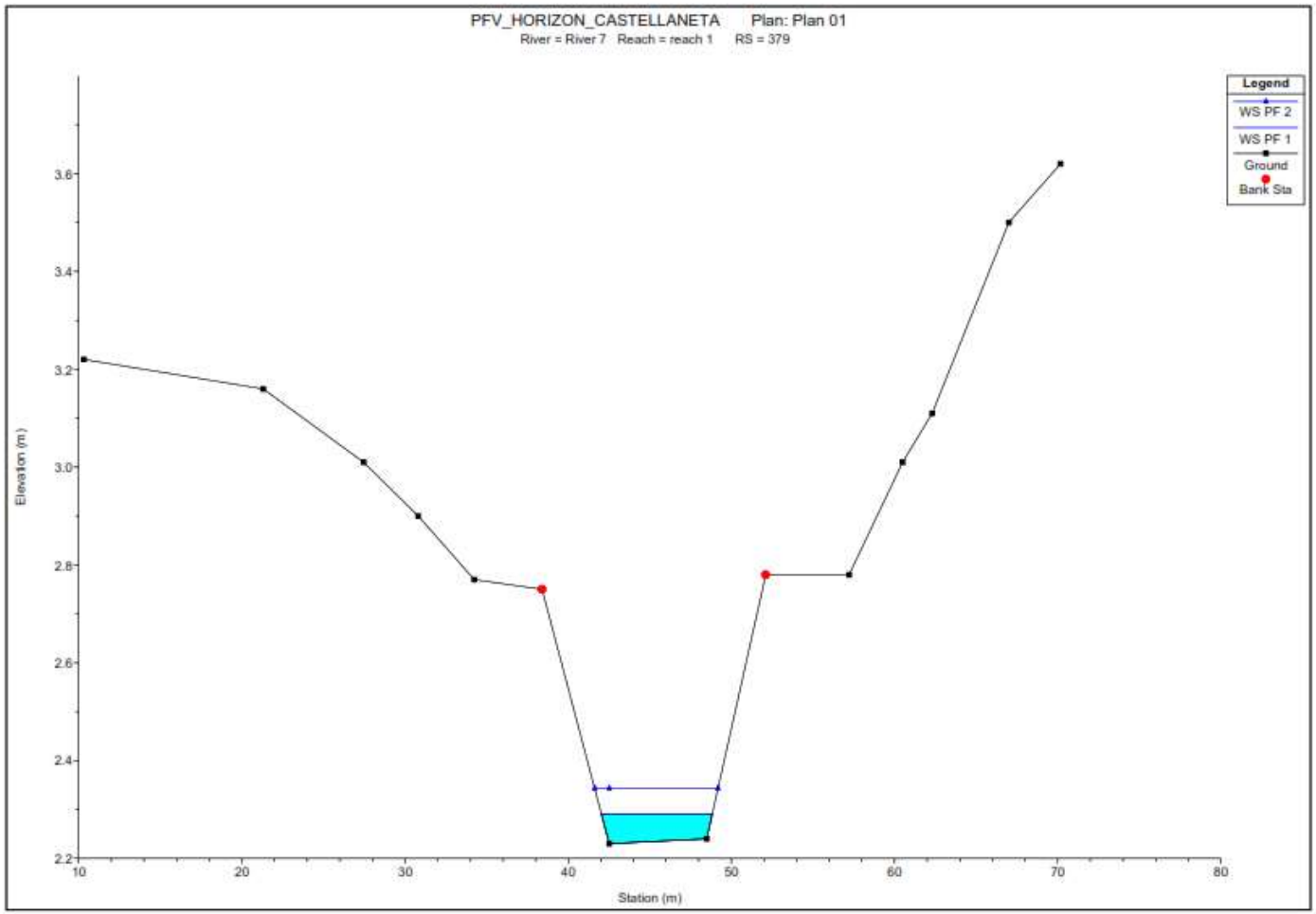

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 592
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
0
10
20
30
40
50
60

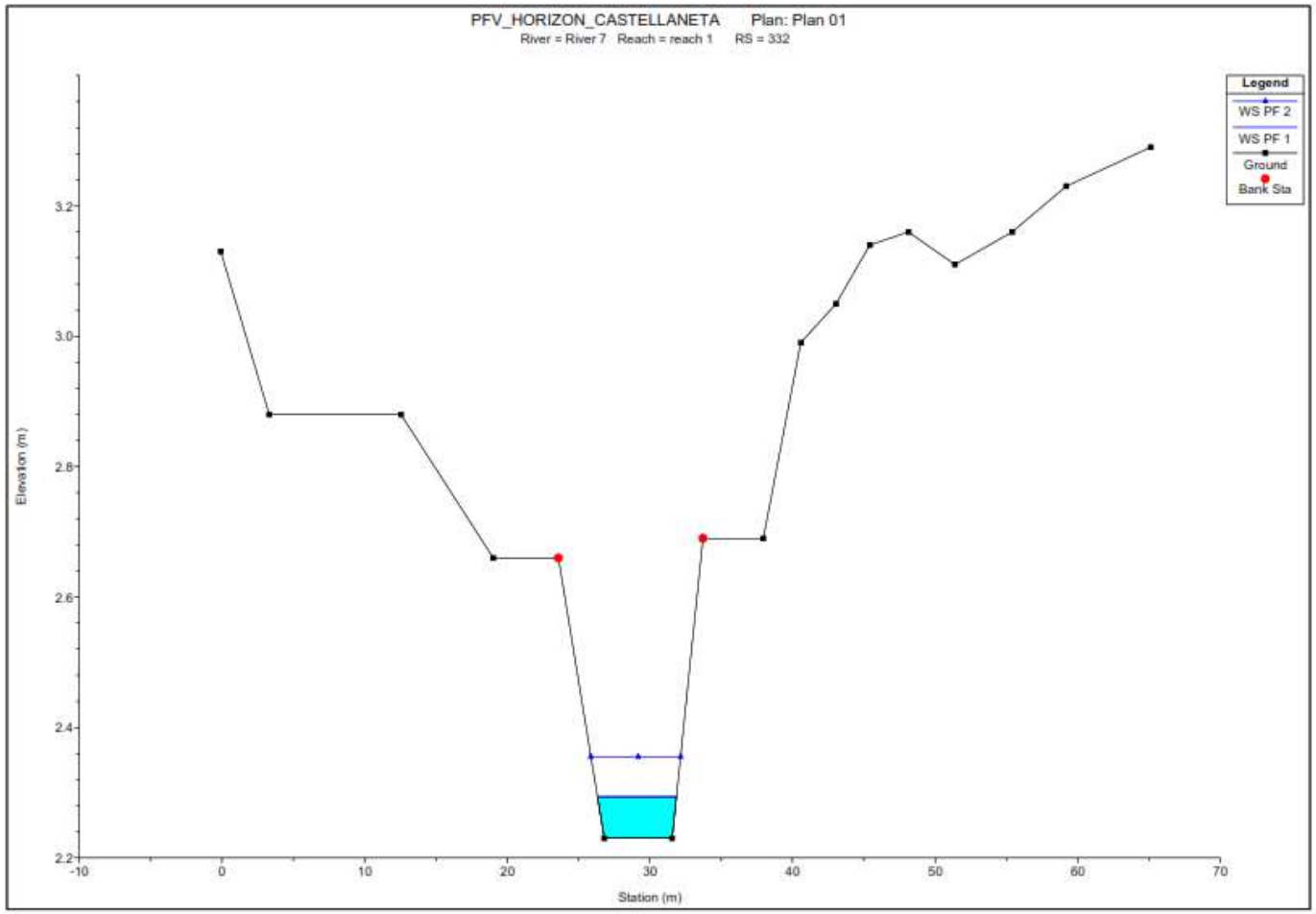

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 559
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
-10
0
10
20
30
40
50

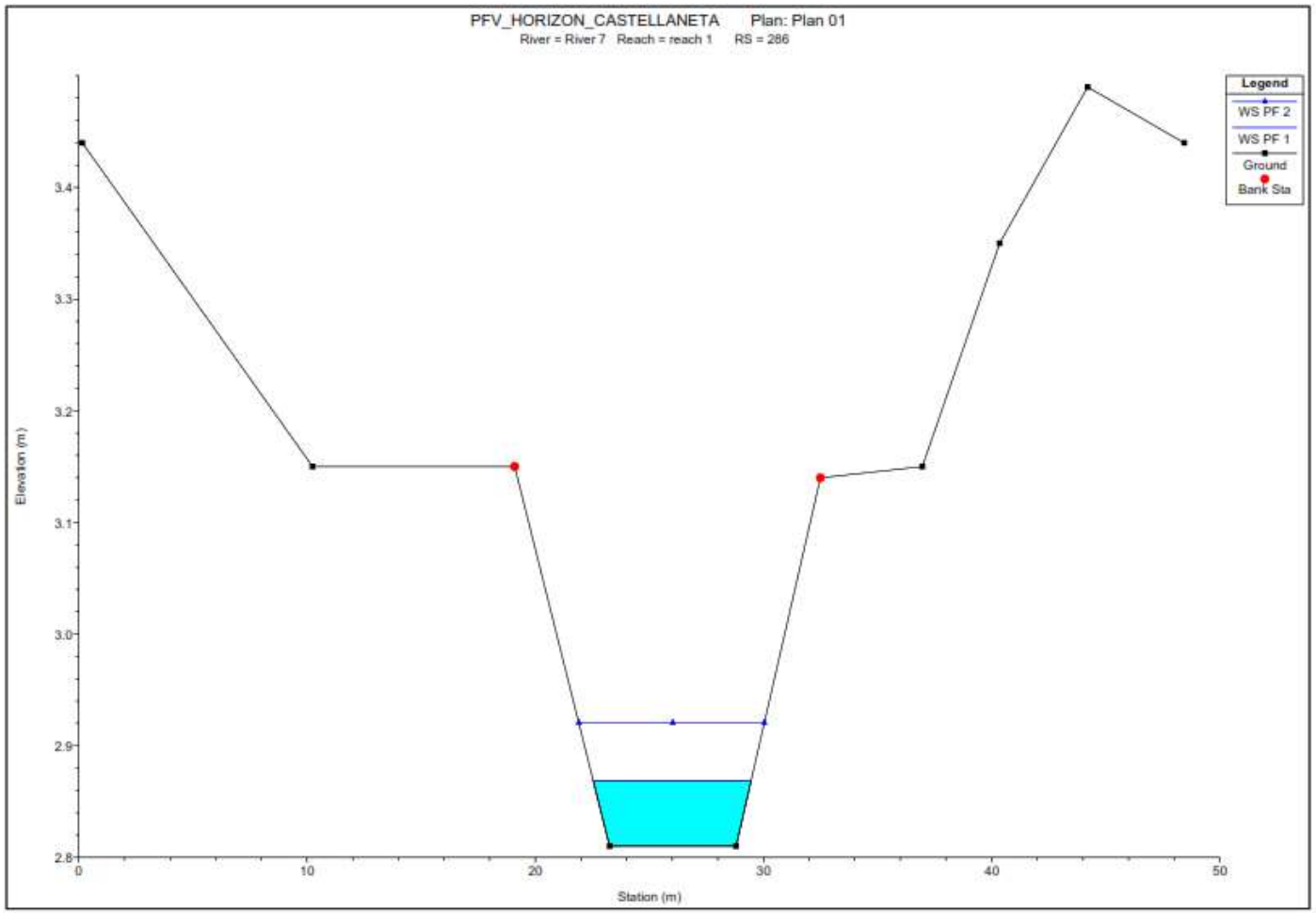

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 529
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.6
3.4
3.2
3.0
2.8
2.6
0
10
20
30
40
50

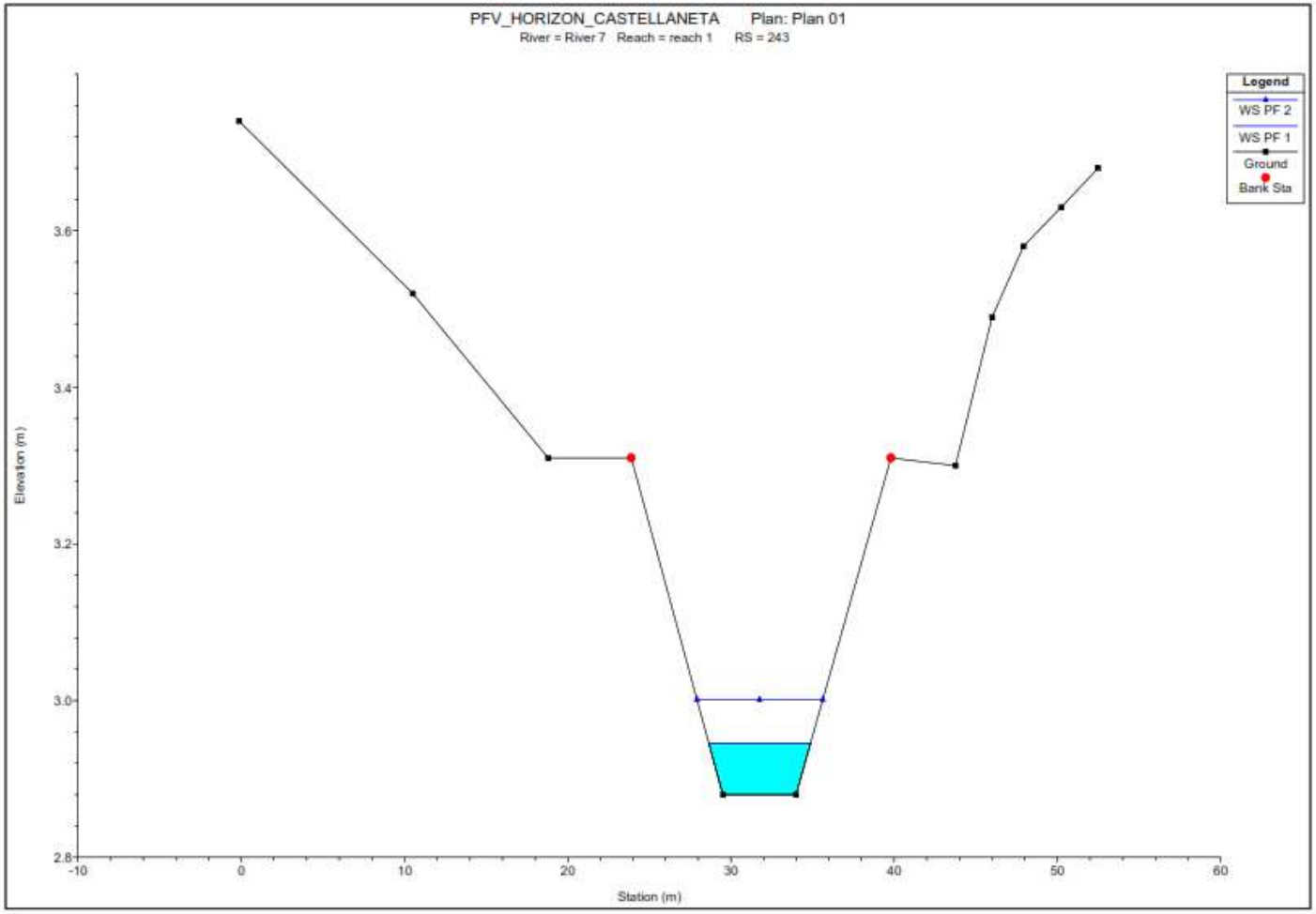

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 495
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.4
2.6
2.8
3.0
3.2
3.4
0
10
20
30
40
50
60
70

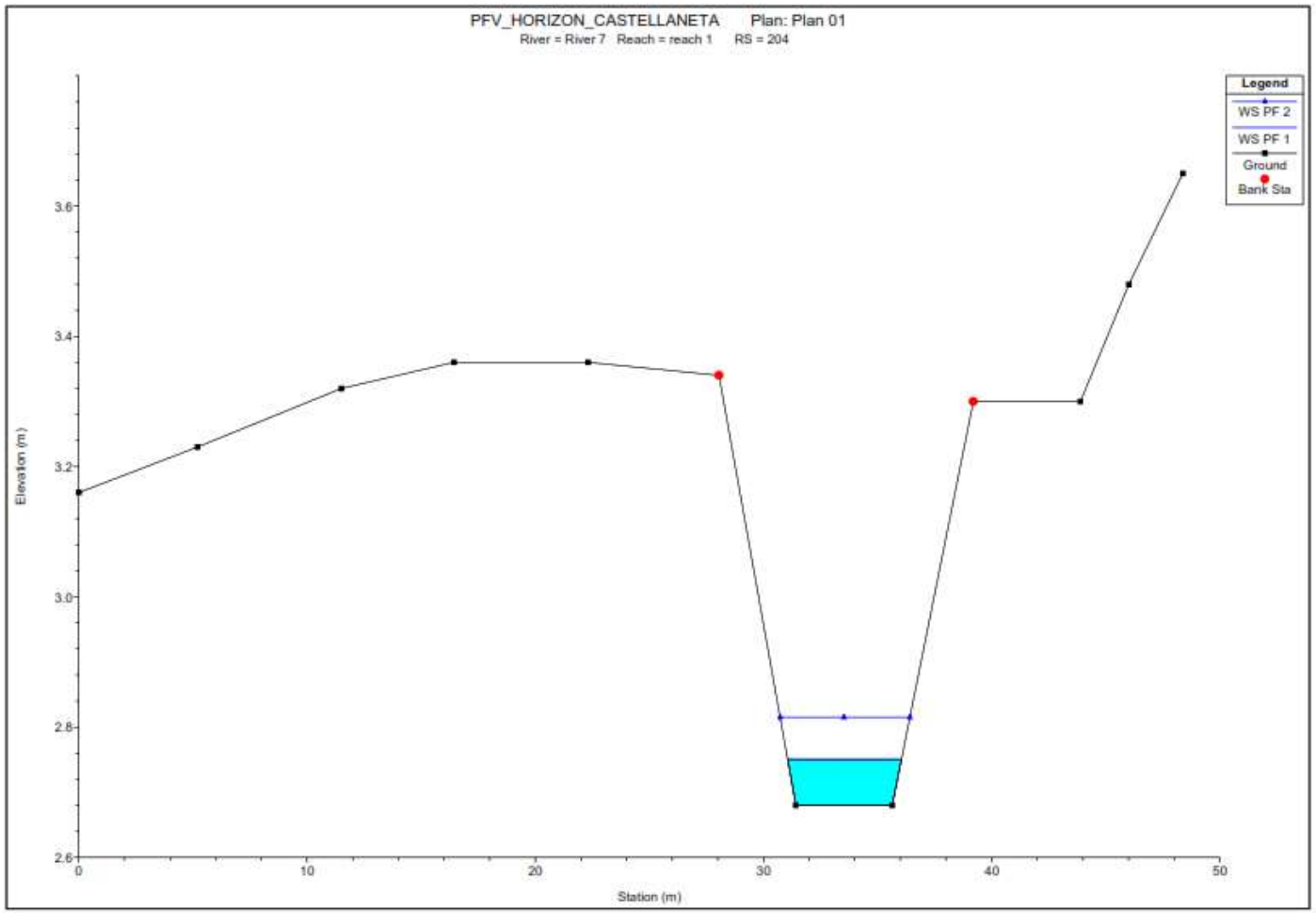

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 425
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.6
2.8
3.0
3.2
3.4
3.6
3.8
0
10
20
30
40
50
60

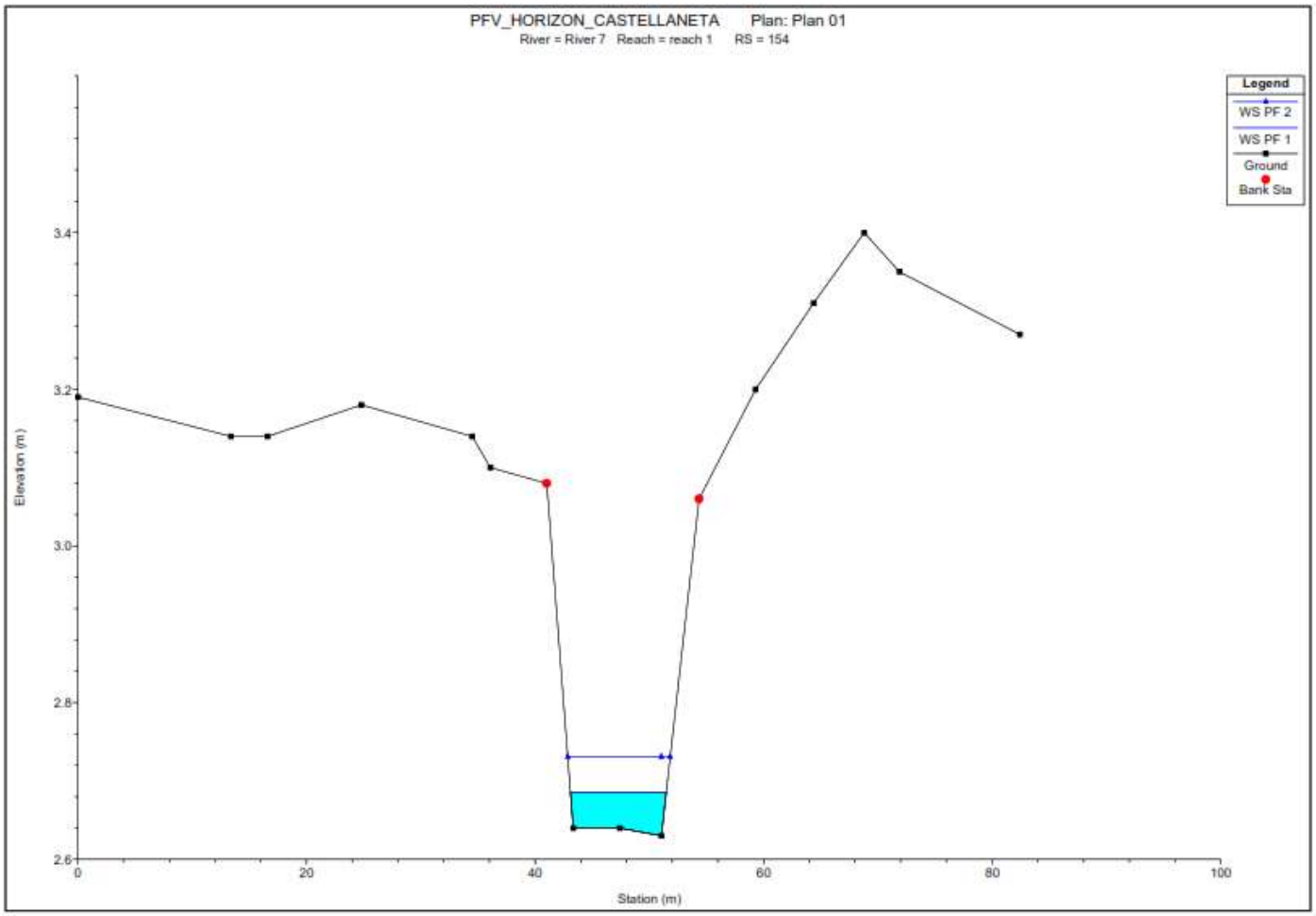

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 379
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
10
20
30
40
50
60
70
80

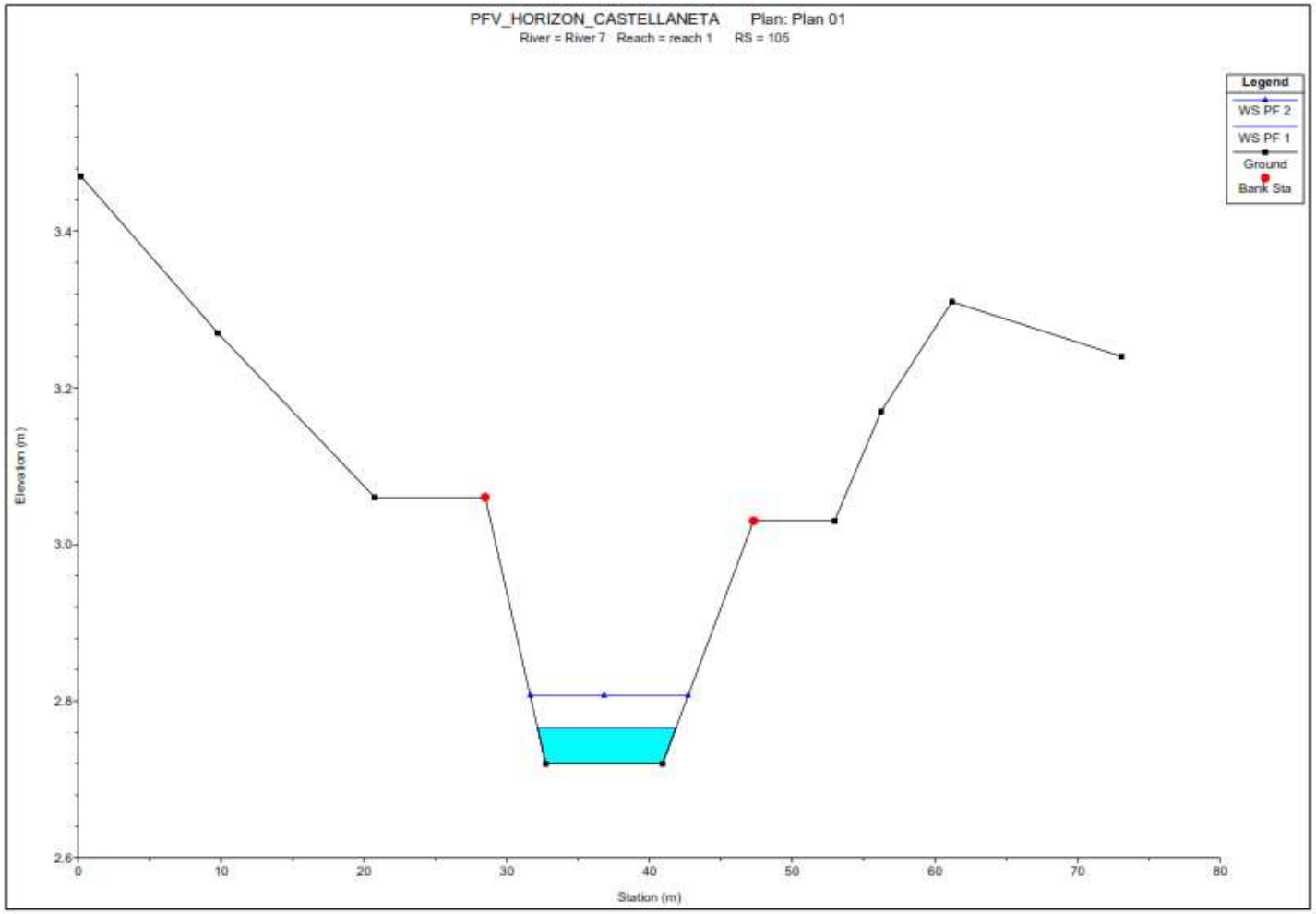

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 332
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.0
2.8
2.6
2.4
2.2
-10
0
10
20
30
40
50
60
70

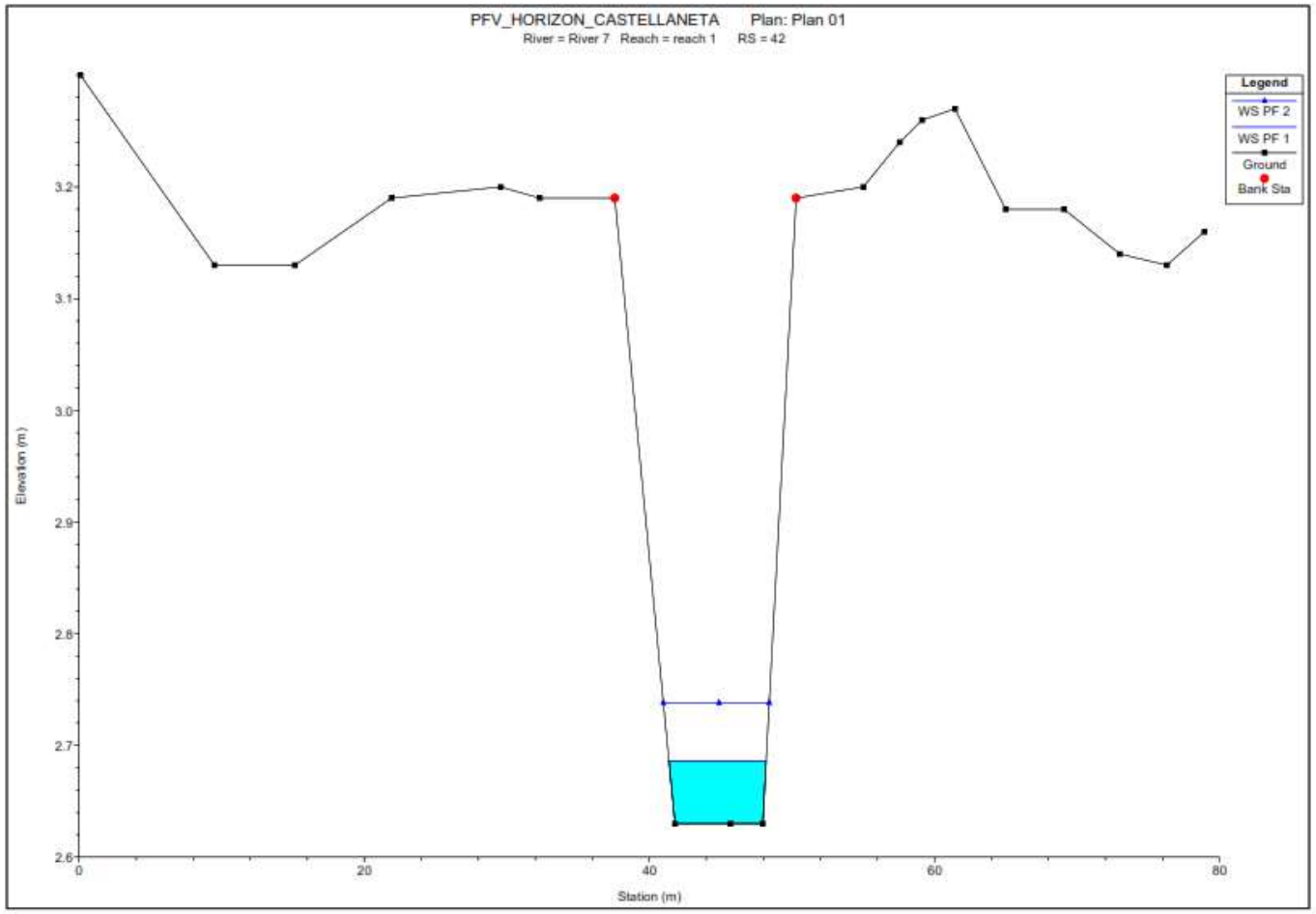

PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 286
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.8
2.9
3.0
3.1
3.2
3.3
3.4
0
10
20
30
40
50


PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 243
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
3.6
3.4
3.2
3.0
2.8
-10
0
10
20
30
40
50
60
Station (m)


PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 204
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
2.6
2.8
3.0
3.2
3.4
3.6
0
10
20
30
40
50


PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 154
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.4
3.2
3.0
2.8
2.6
0
20
40
60
80
100


PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 105
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.4
3.2
3.0
2.8
2.6
0
10
20
30
40
50
60
70
80


PFV_HORIZON_CASTELLANETA Plan: Plan 01
River = River 7 Reach = reach 1 RS = 42
Legend
WS PF 2
WS PF 1
Ground
Bank Sta
Elevation (m)
Station (m)
3.2
3.1
3.0
2.9
2.8
2.7
2.6
0
20
40
60
80