



Comune di  
CERTALDO



Comune di  
CASTELFIORENTINO

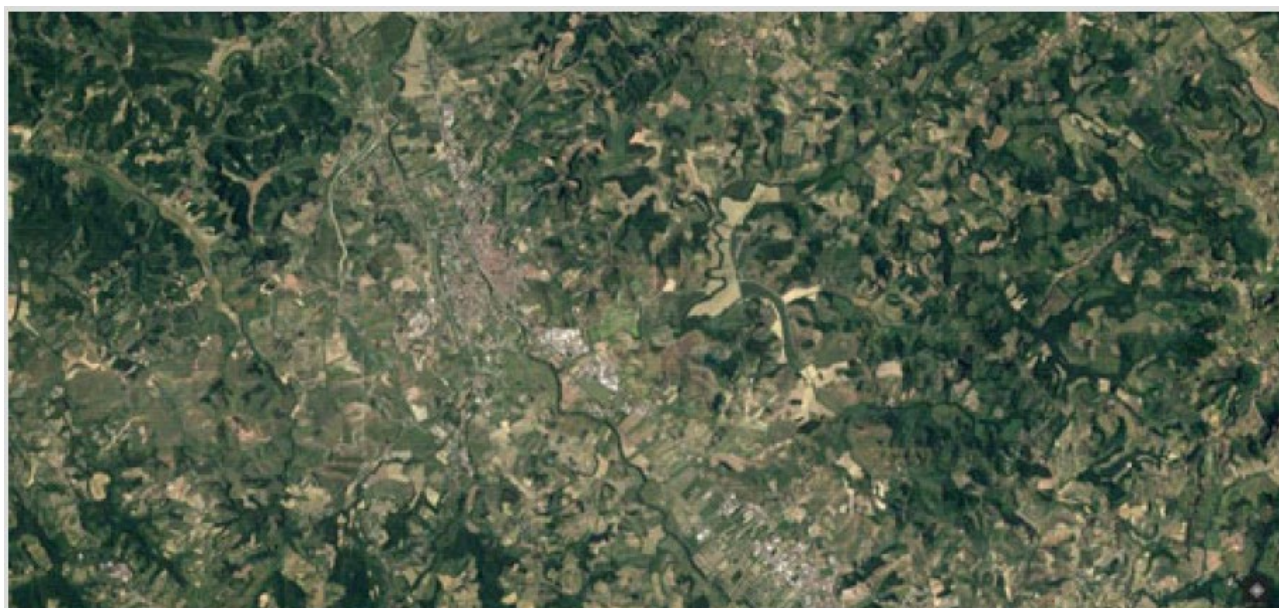


Comune di  
MONTAIONE



Comune di  
GAMBASSI-TERME

## Indagini idrologiche – idrauliche a supporto del piano strutturale intercomunale (PSI)



### **VERIFICHE IDRAULICHE IN MOTO VARIO**

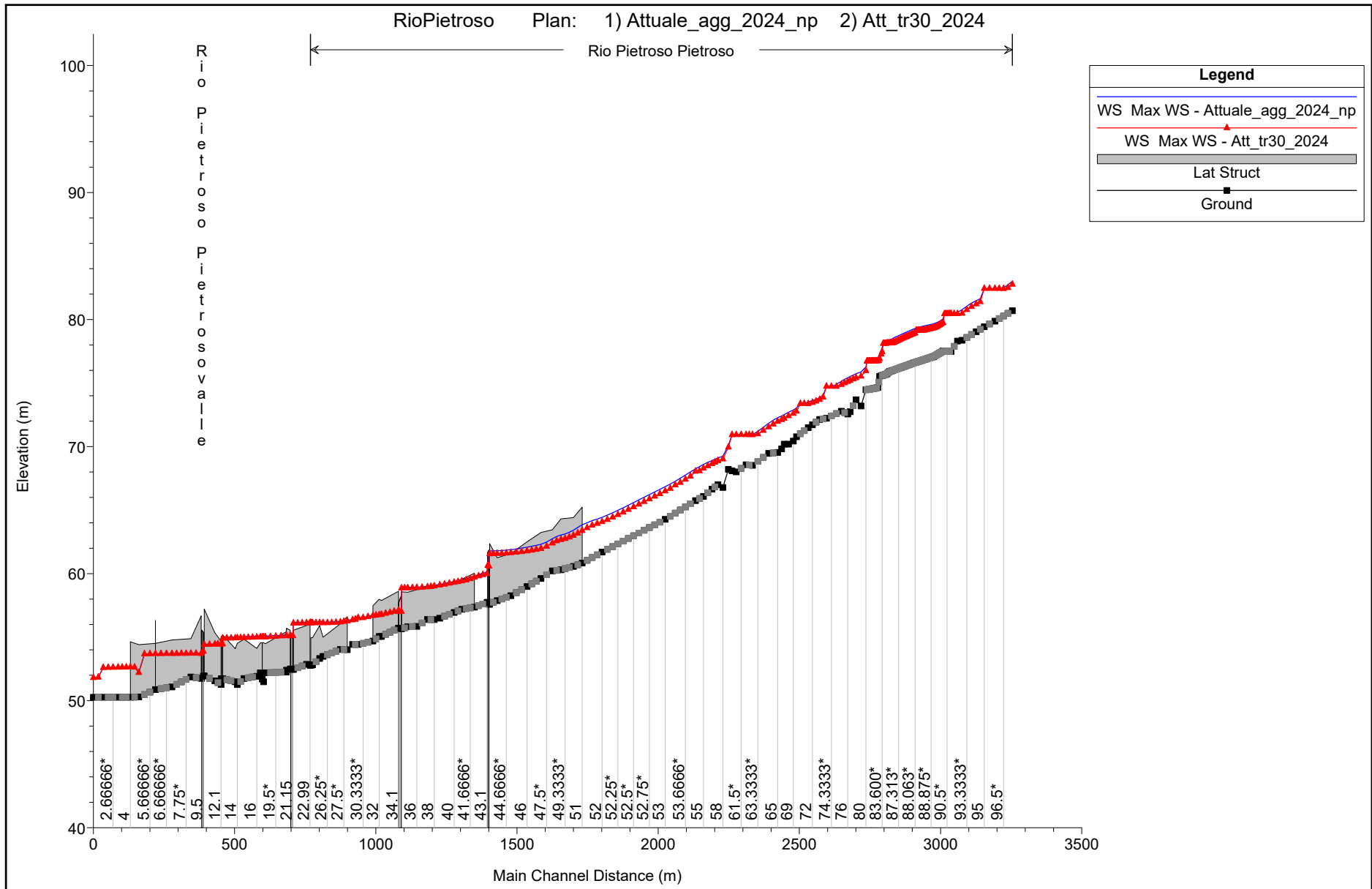
*Ing. Gesualdo Bavecchi*

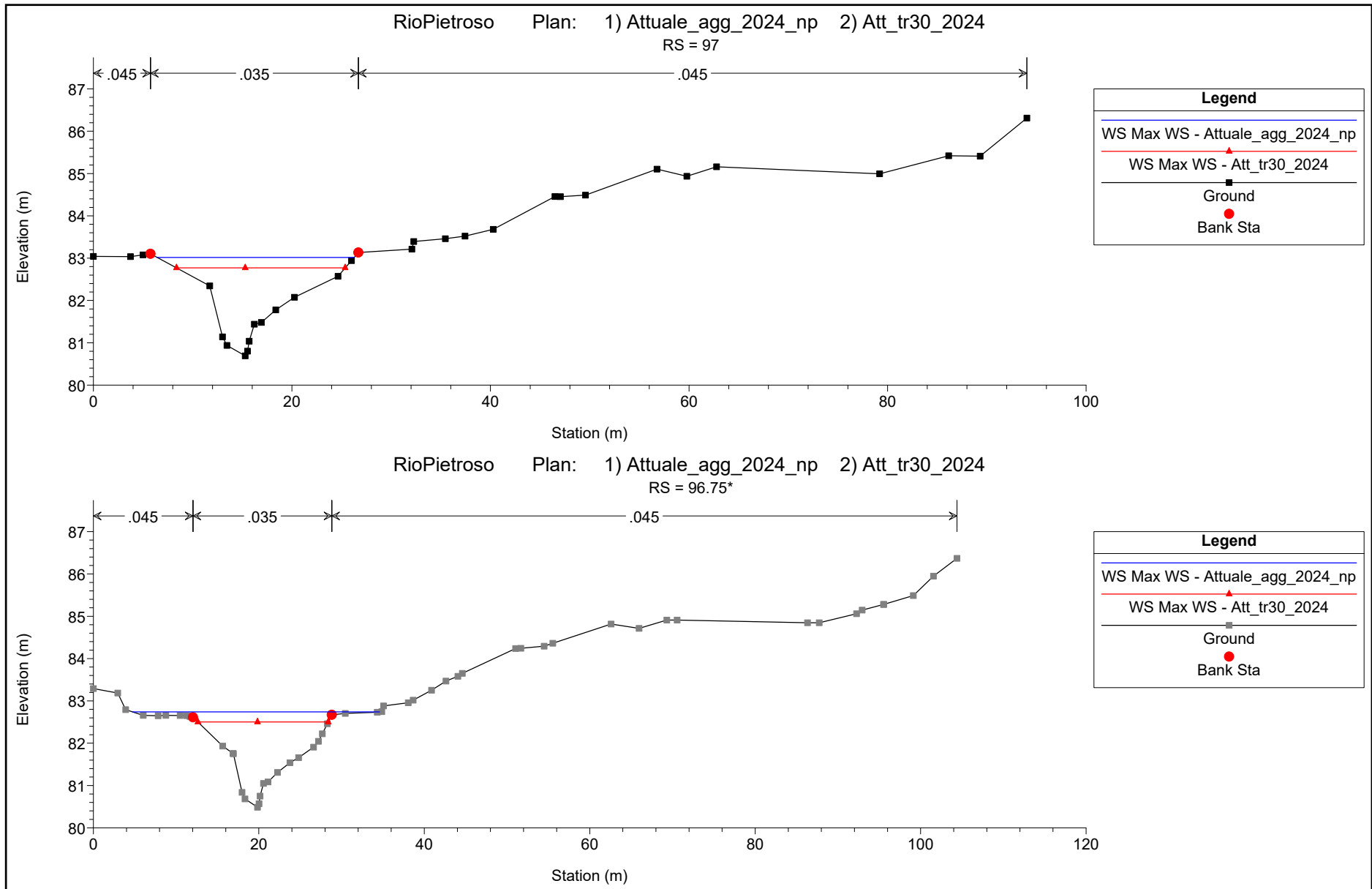
## VERIFICHE IDRAULICHE IN MOTO VARIO

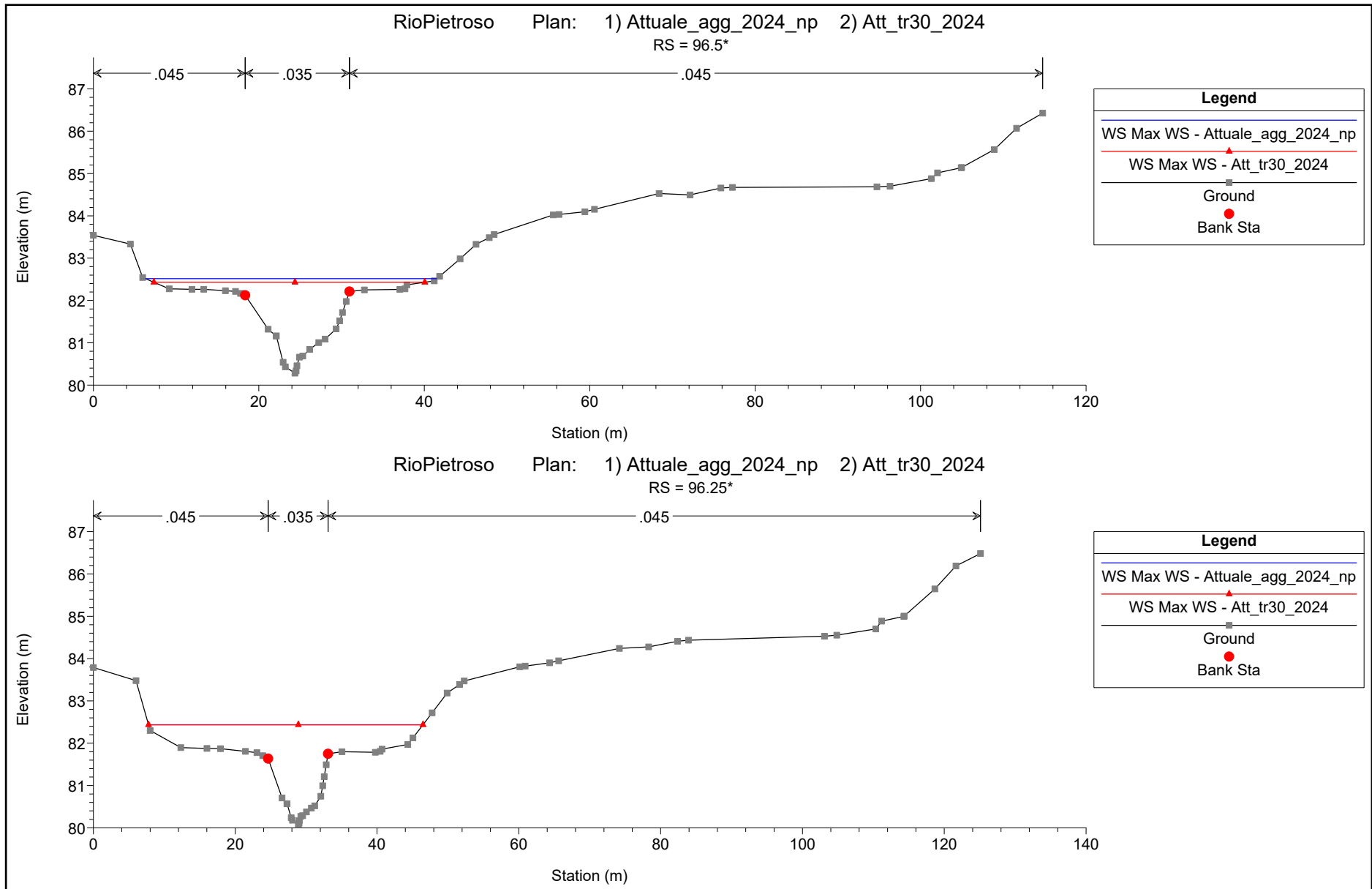
Verifiche Idrauliche

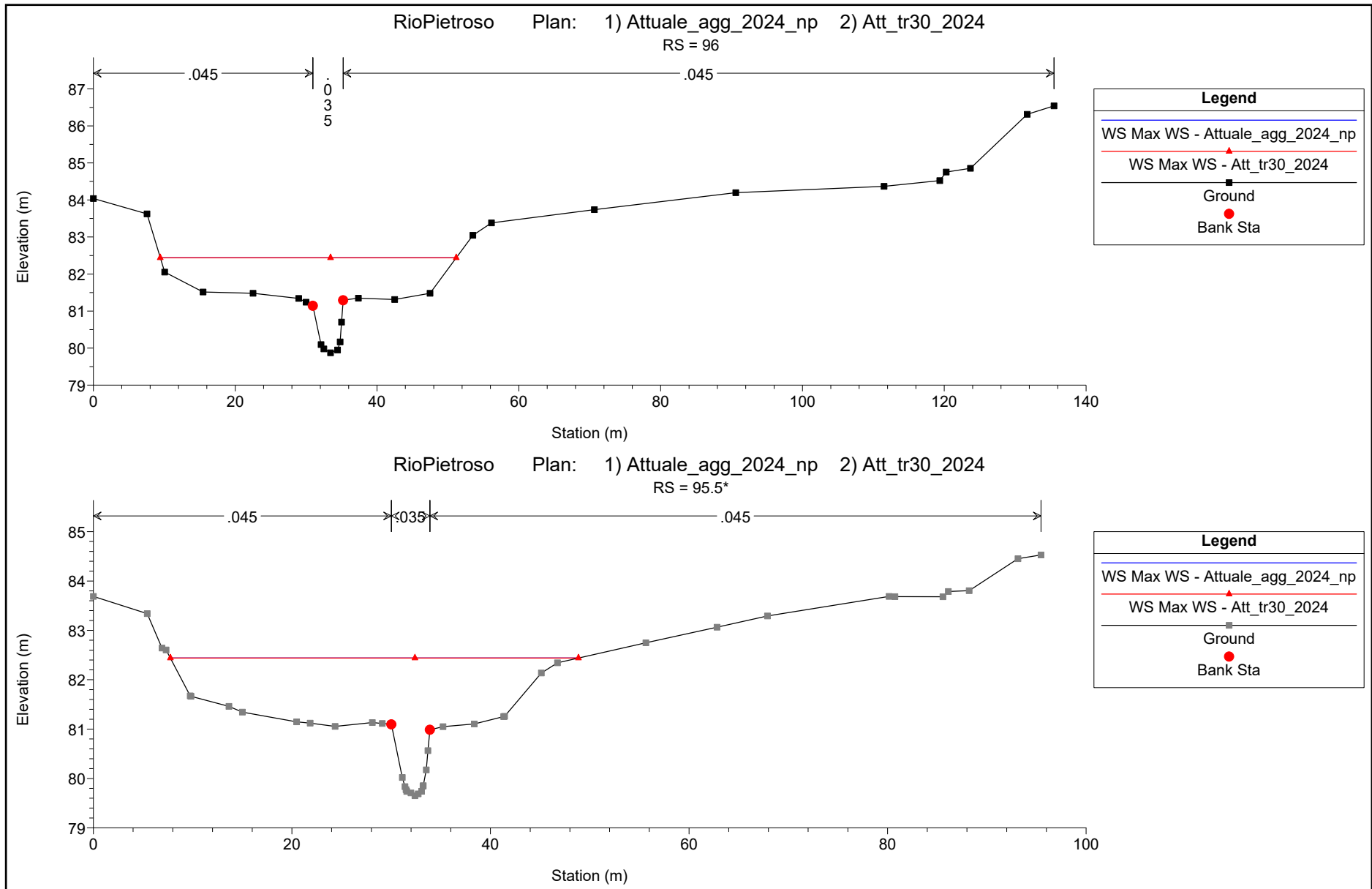
Rio Pietroso e Rio Arnese

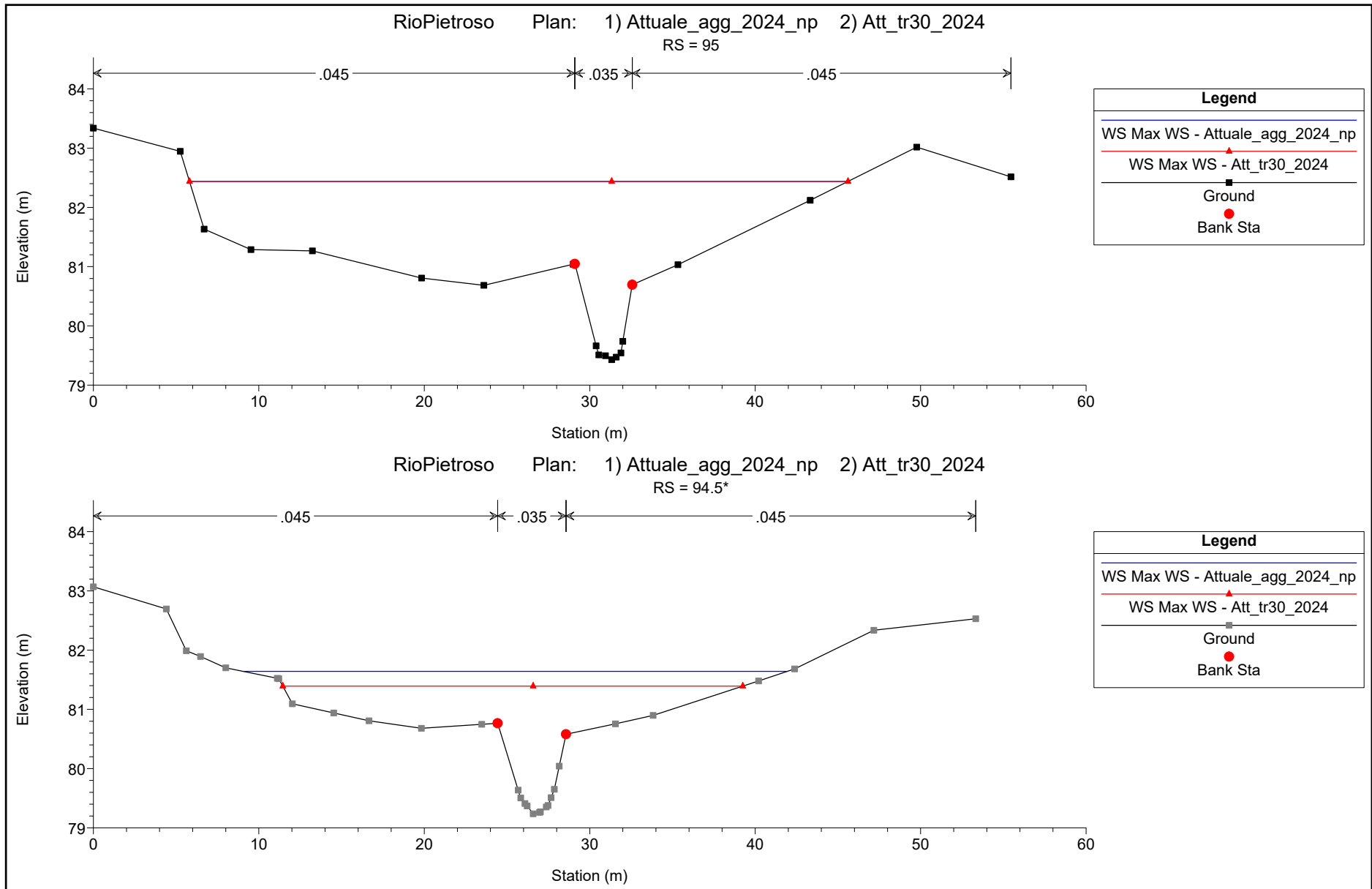
Stato attuale -  $Tr = 30$  e 200 anni



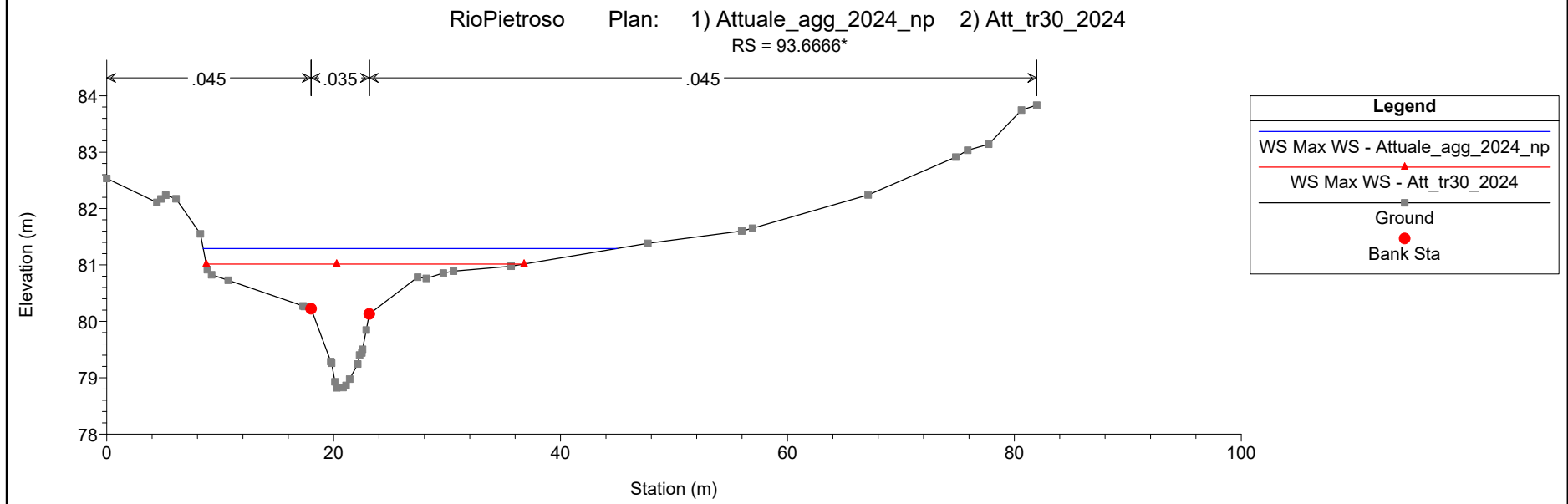
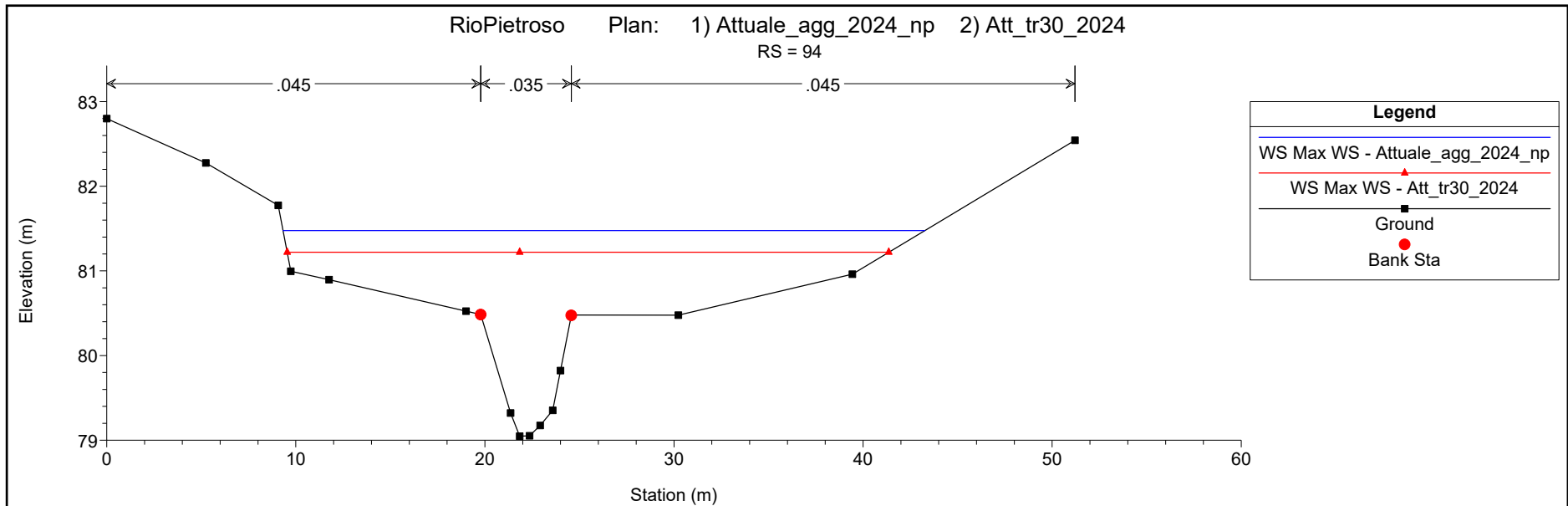
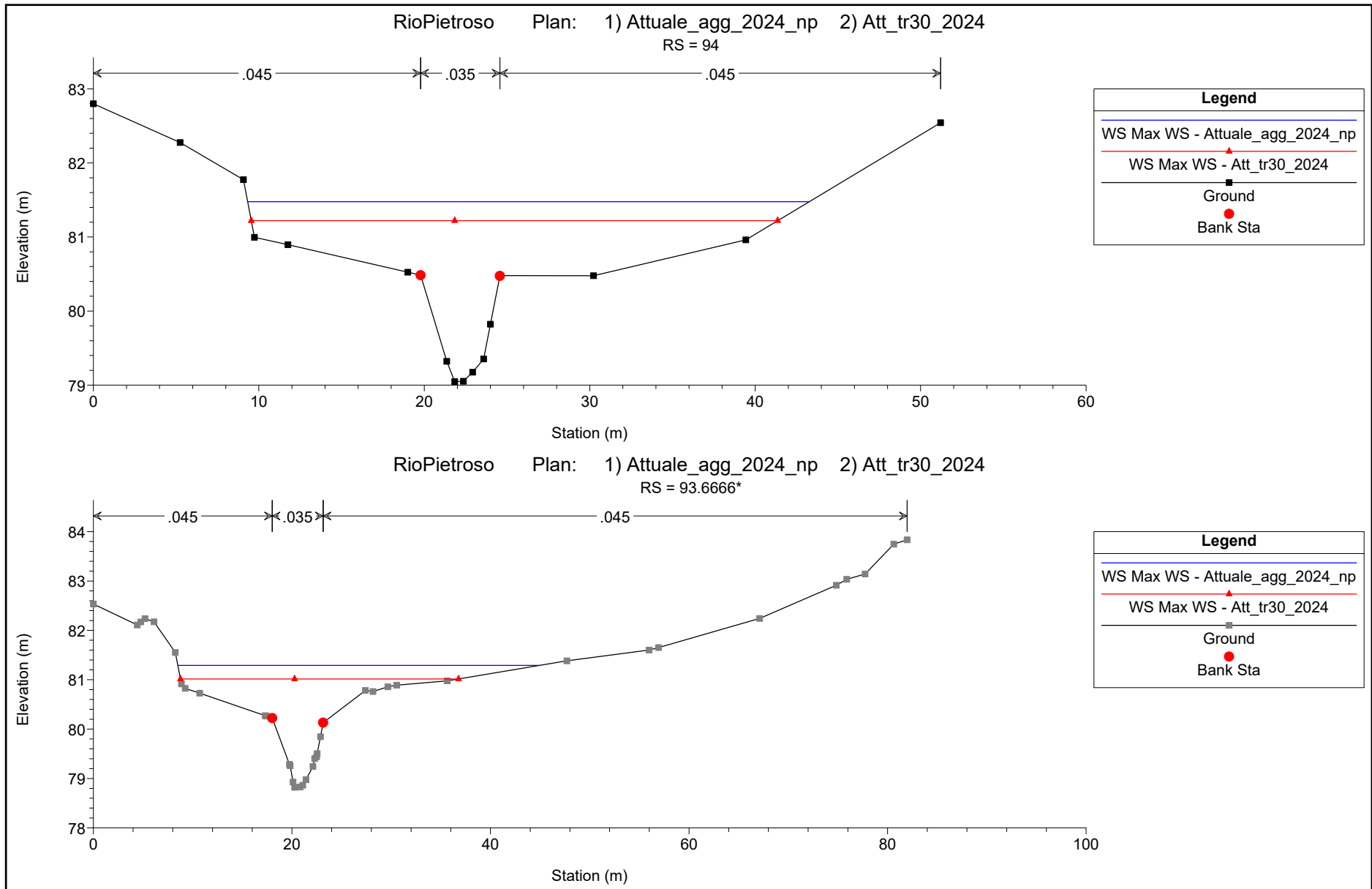


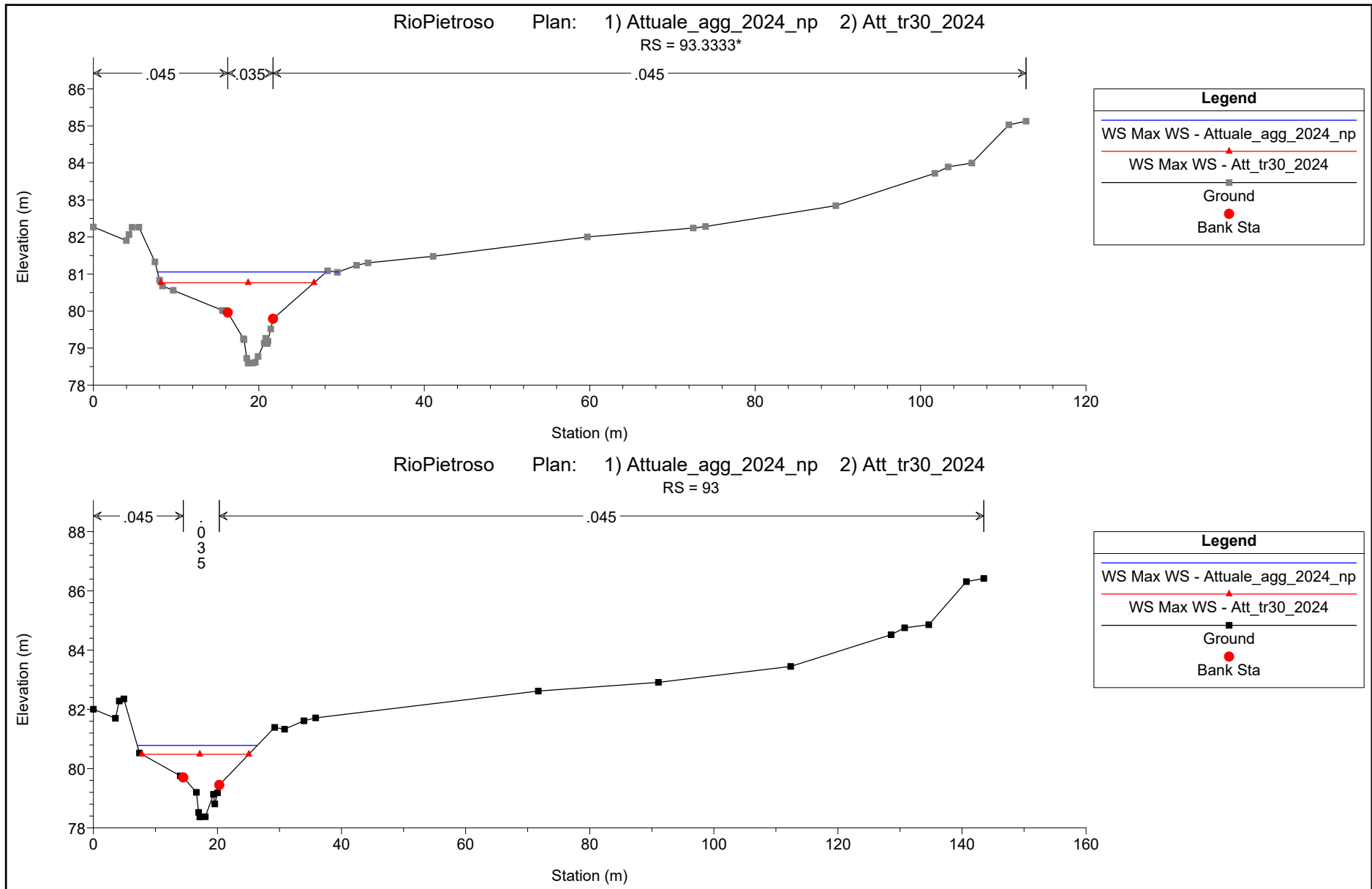


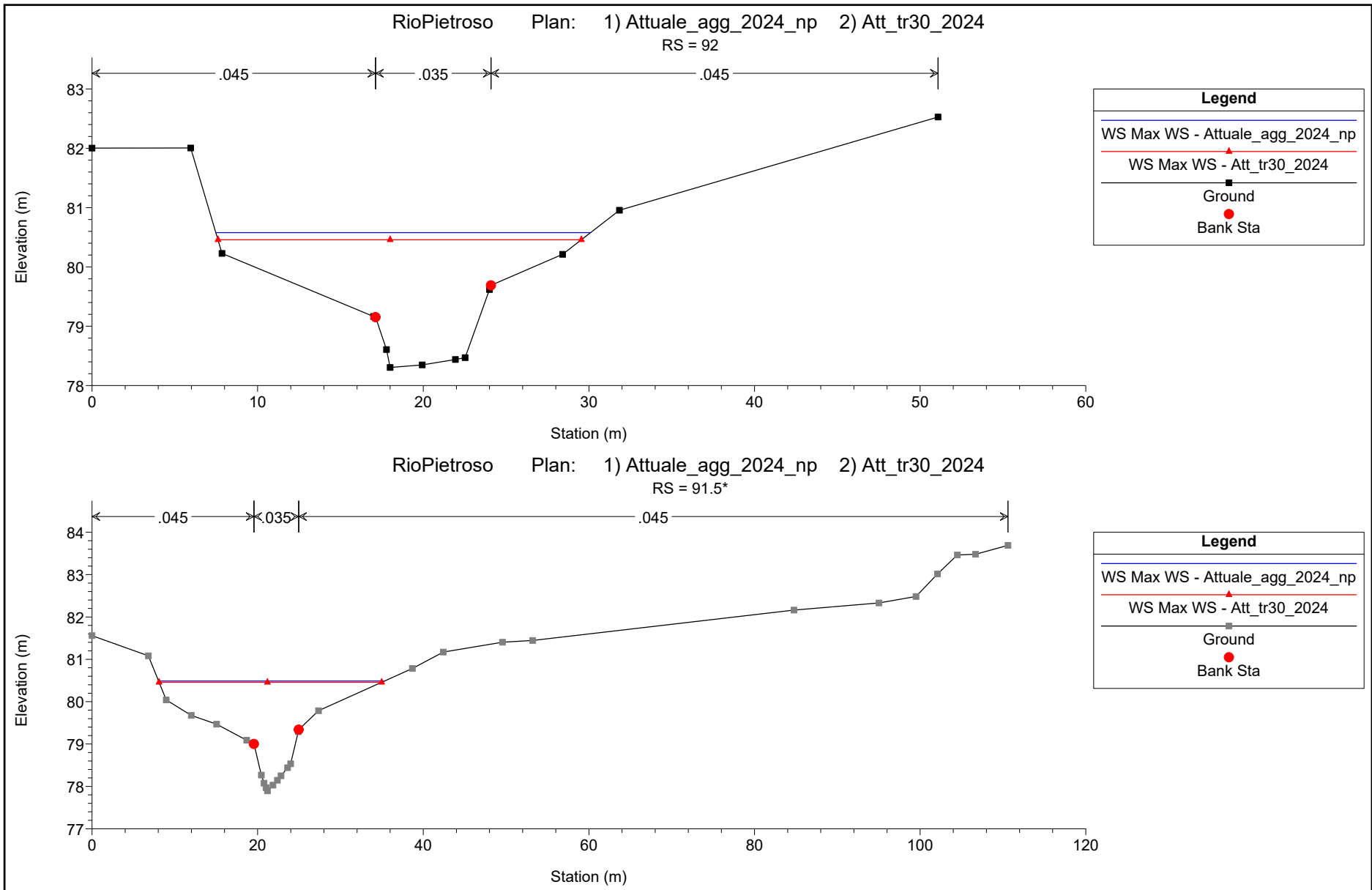


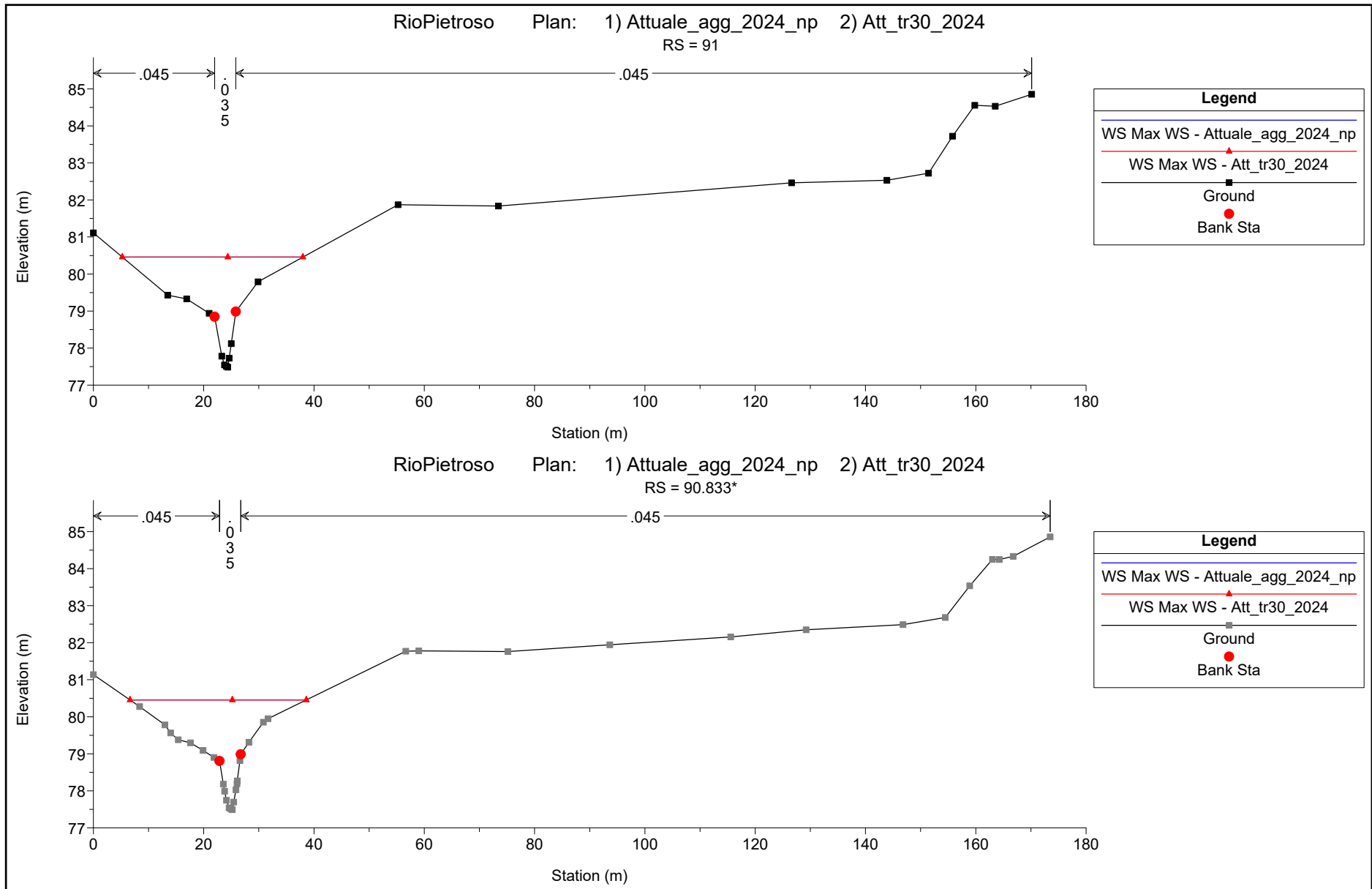


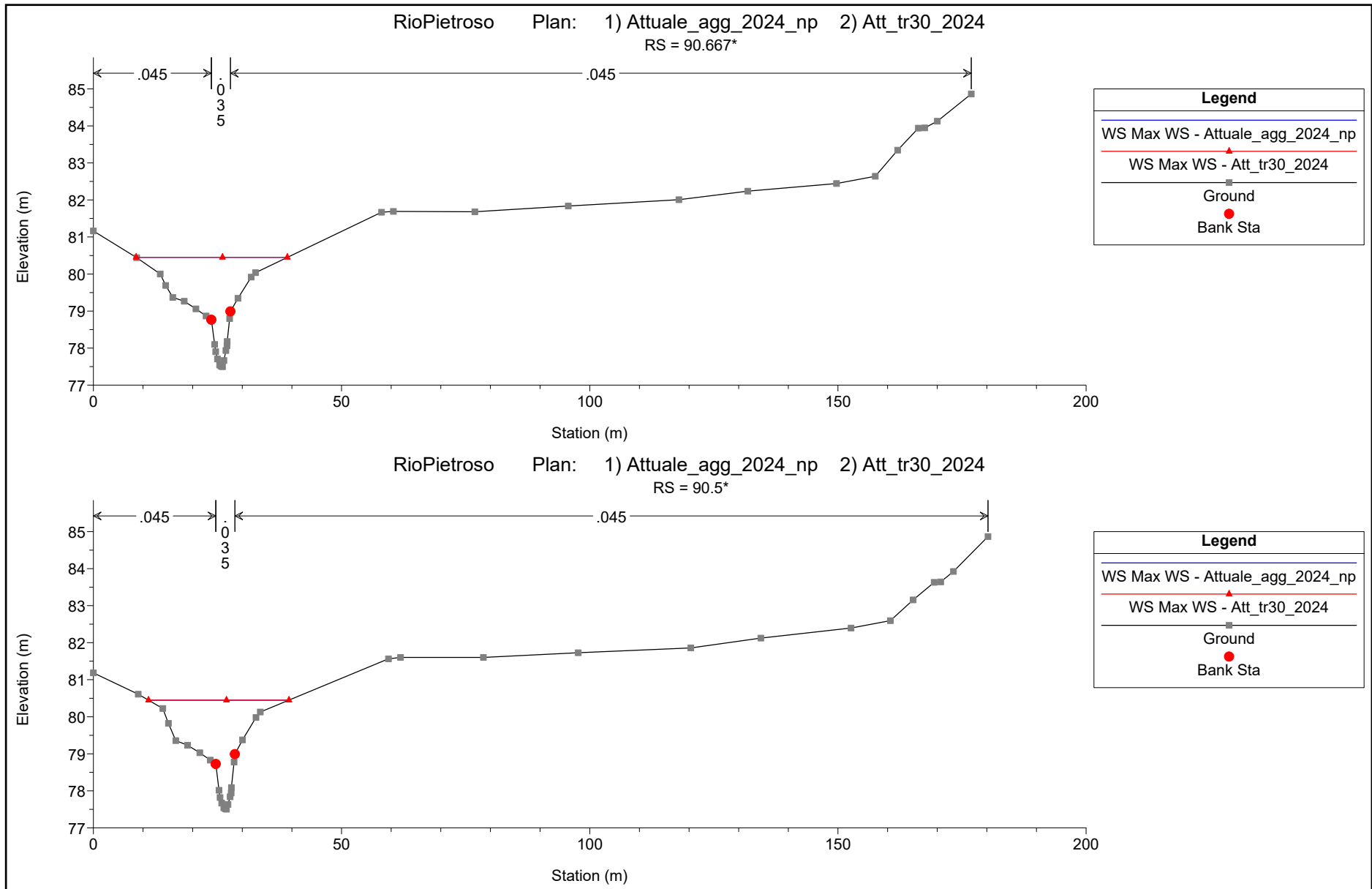


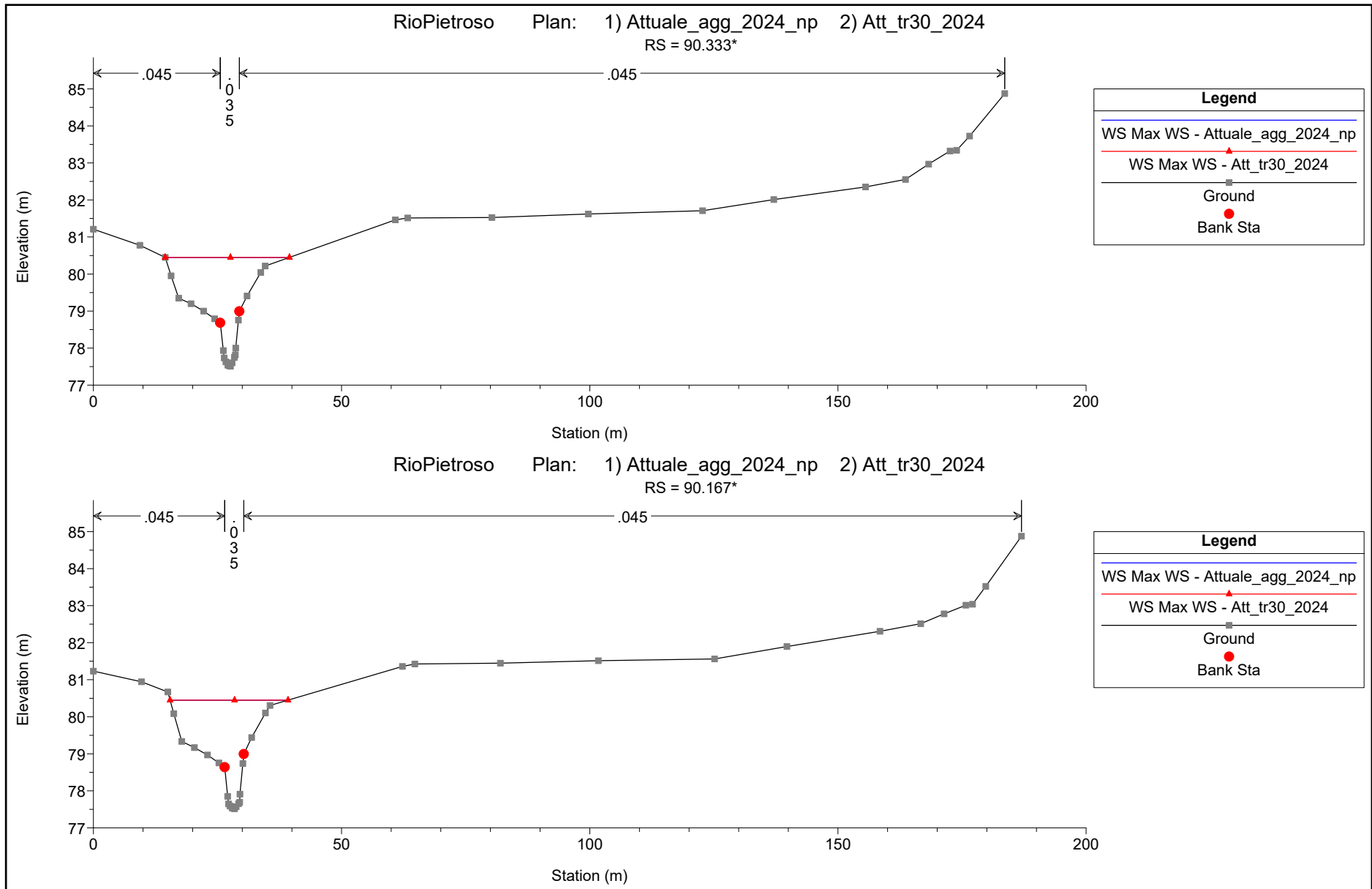


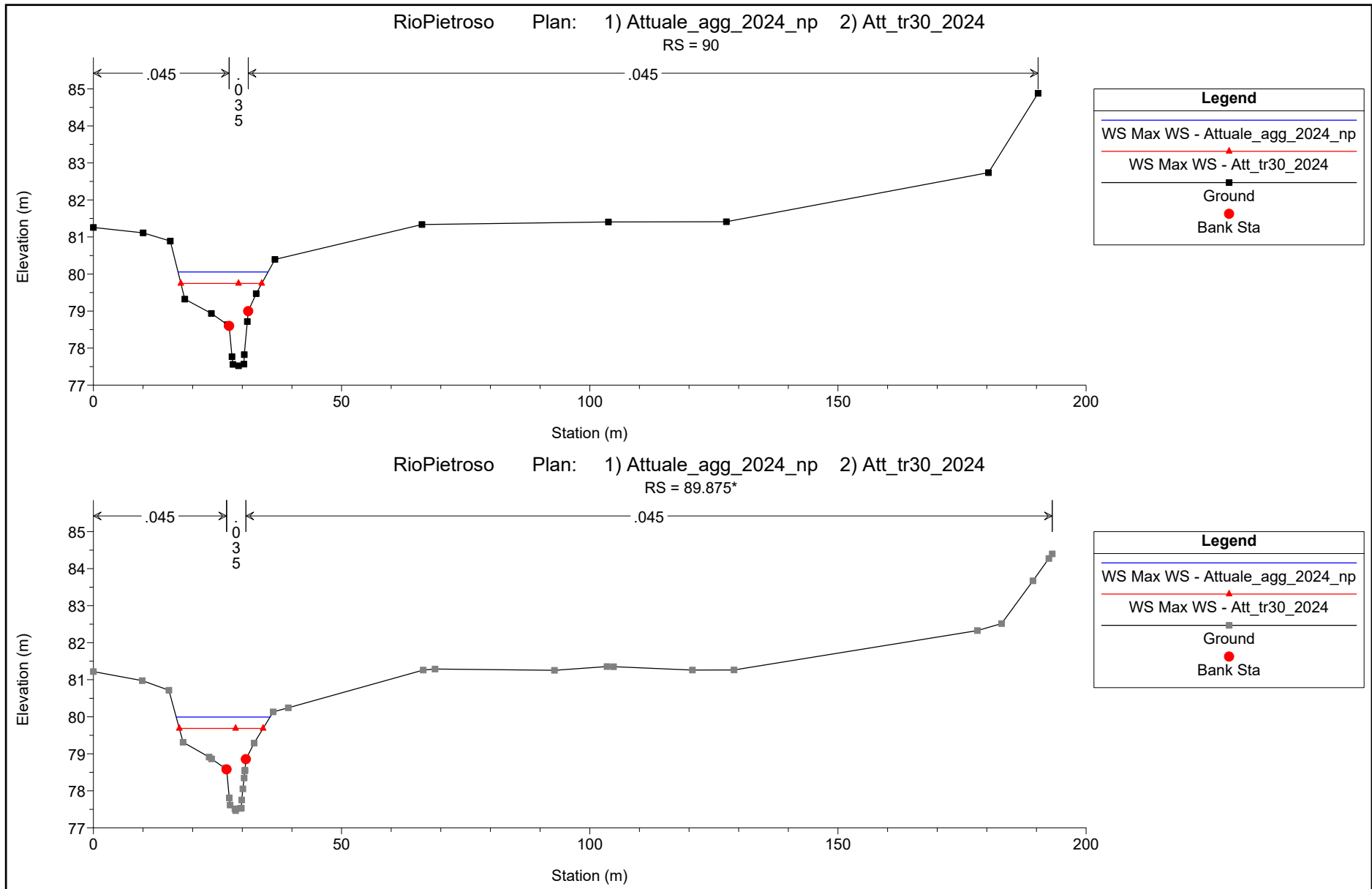


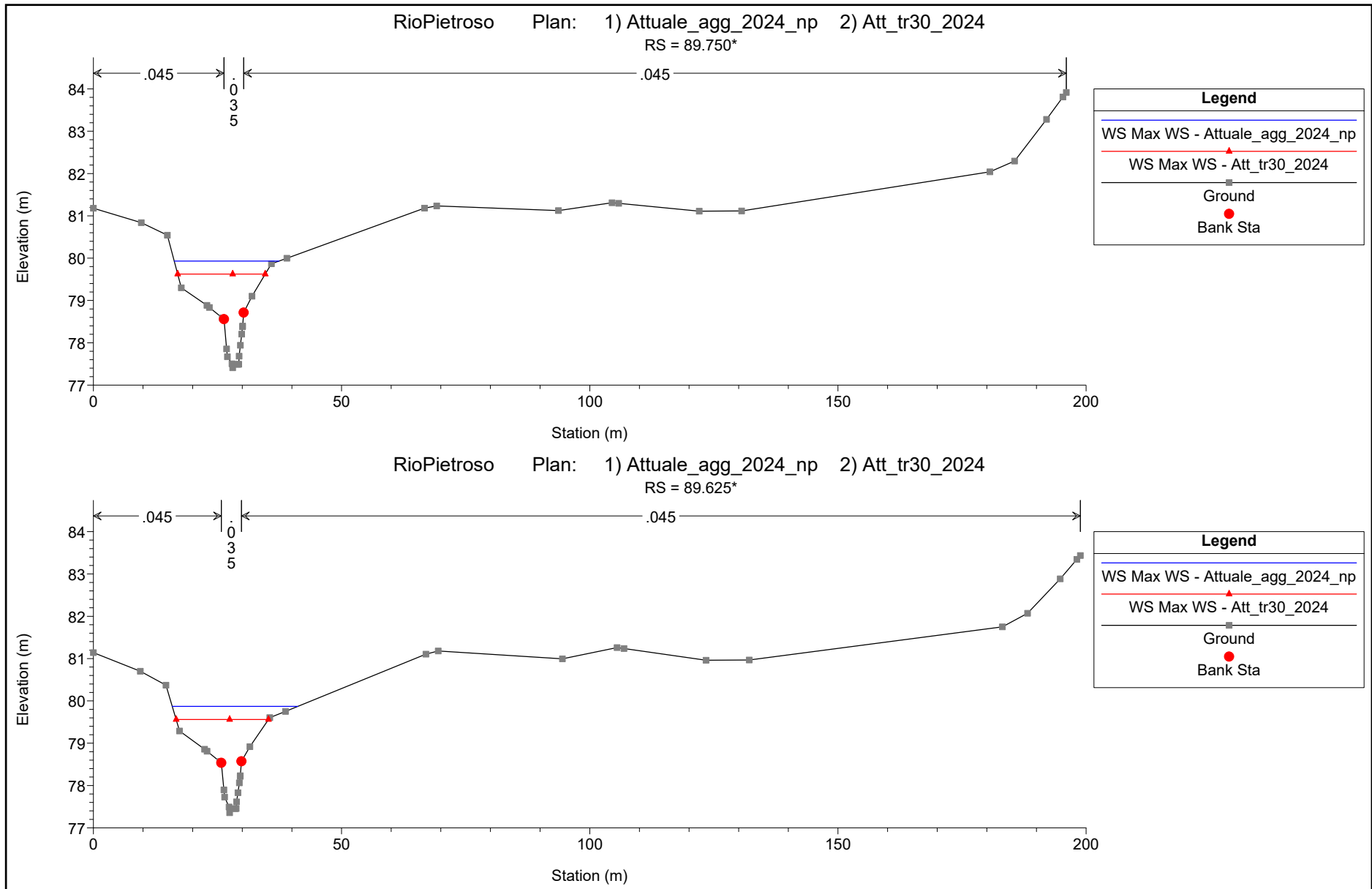




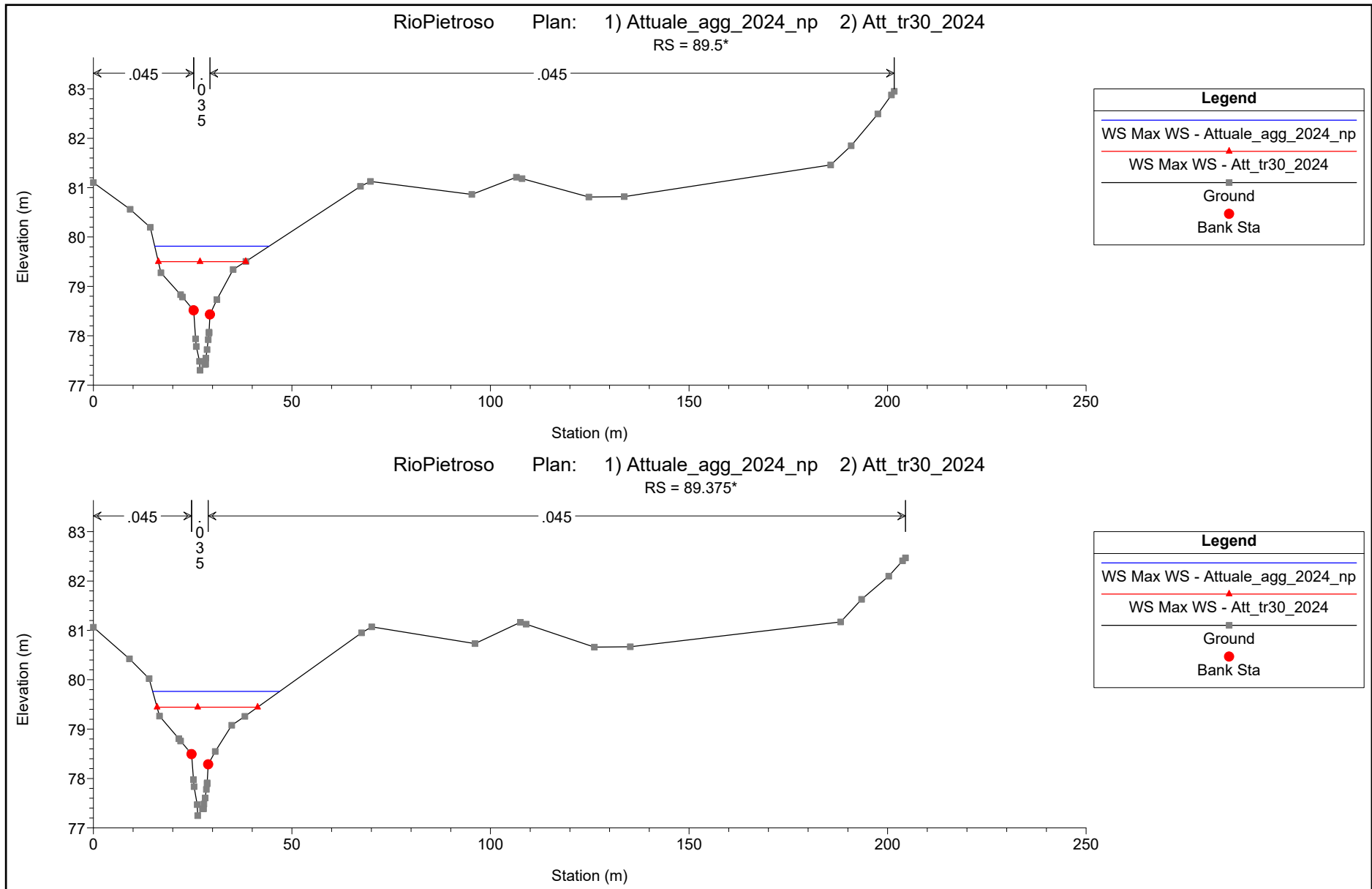


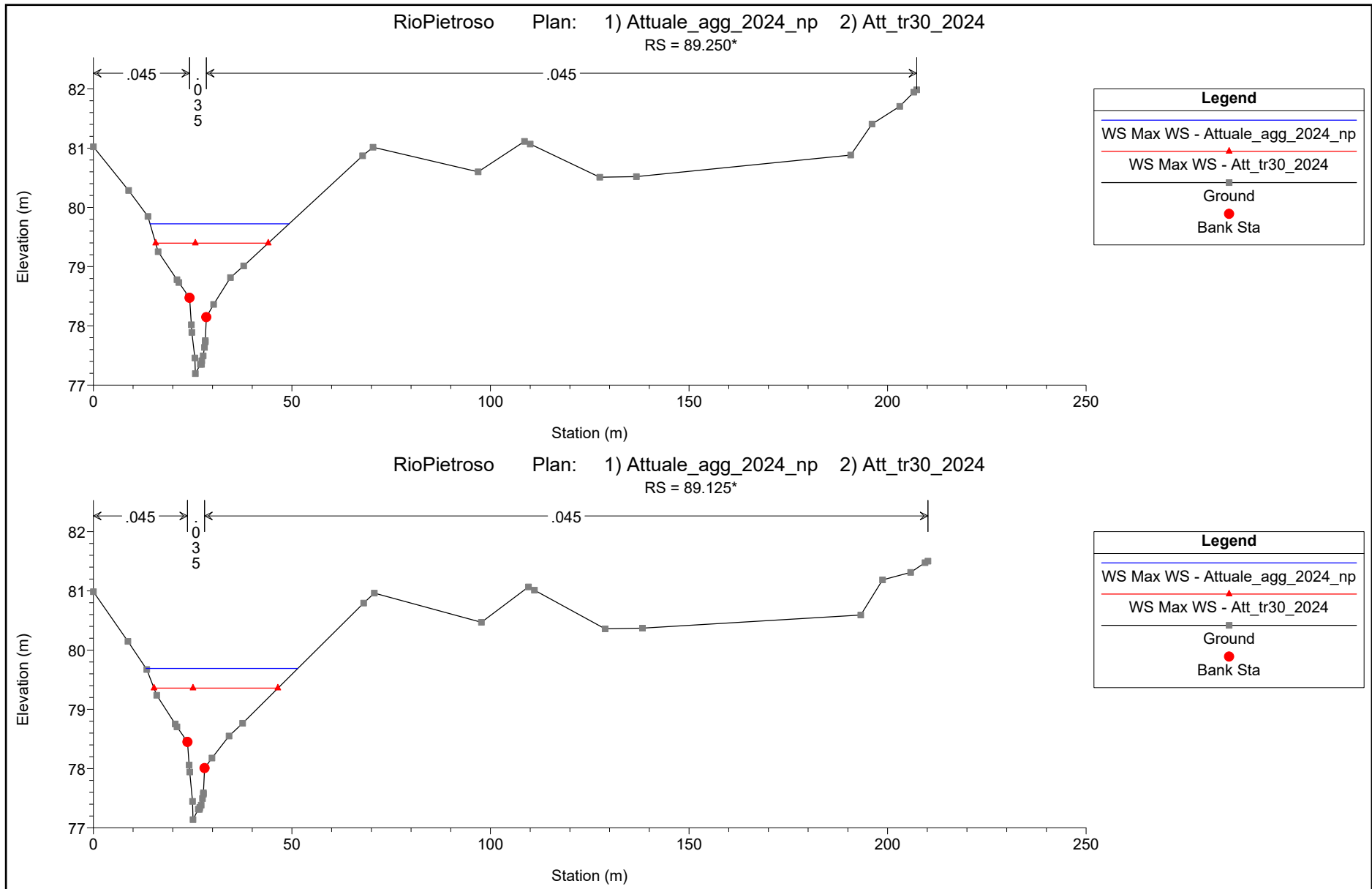


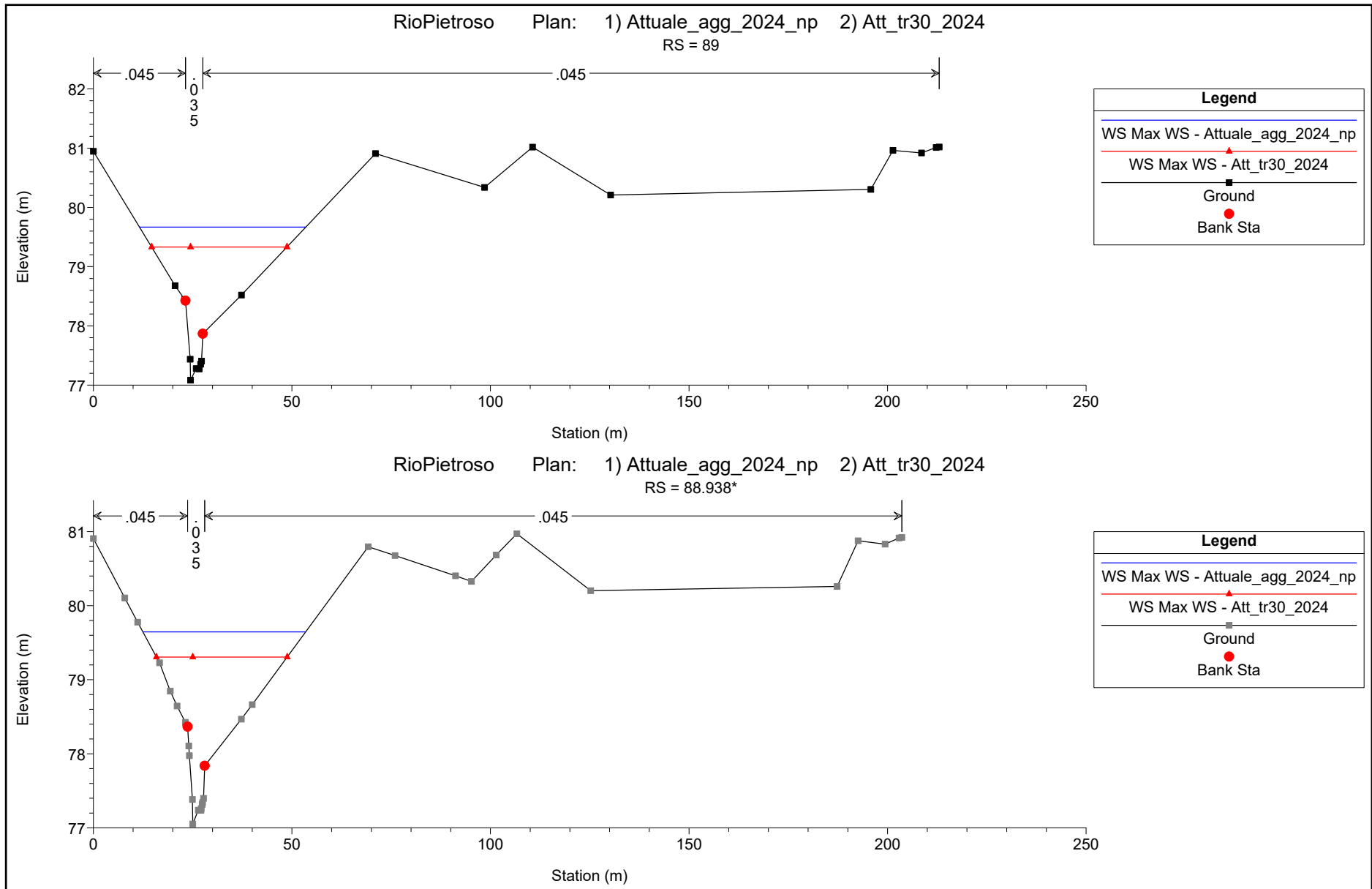


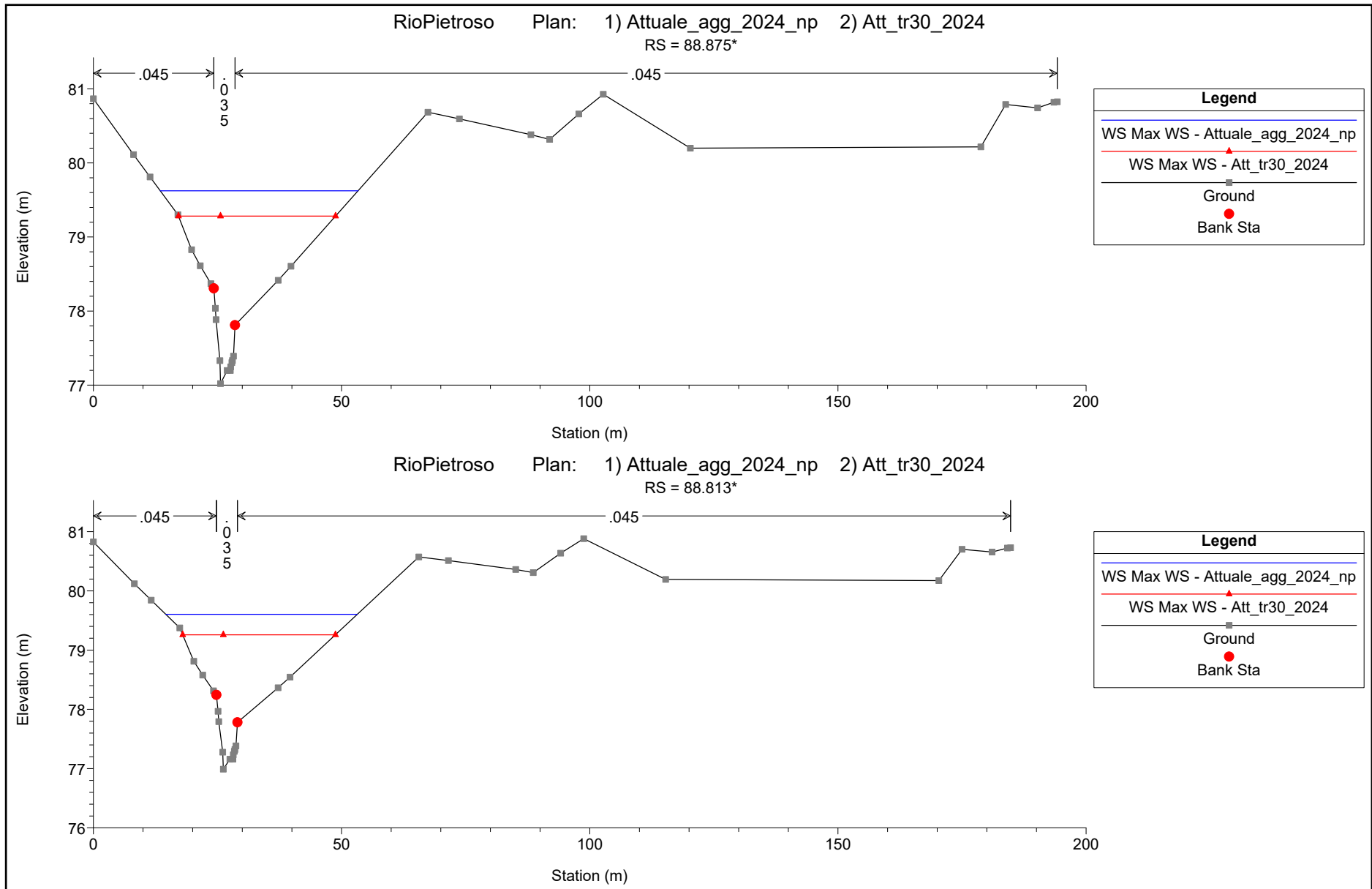


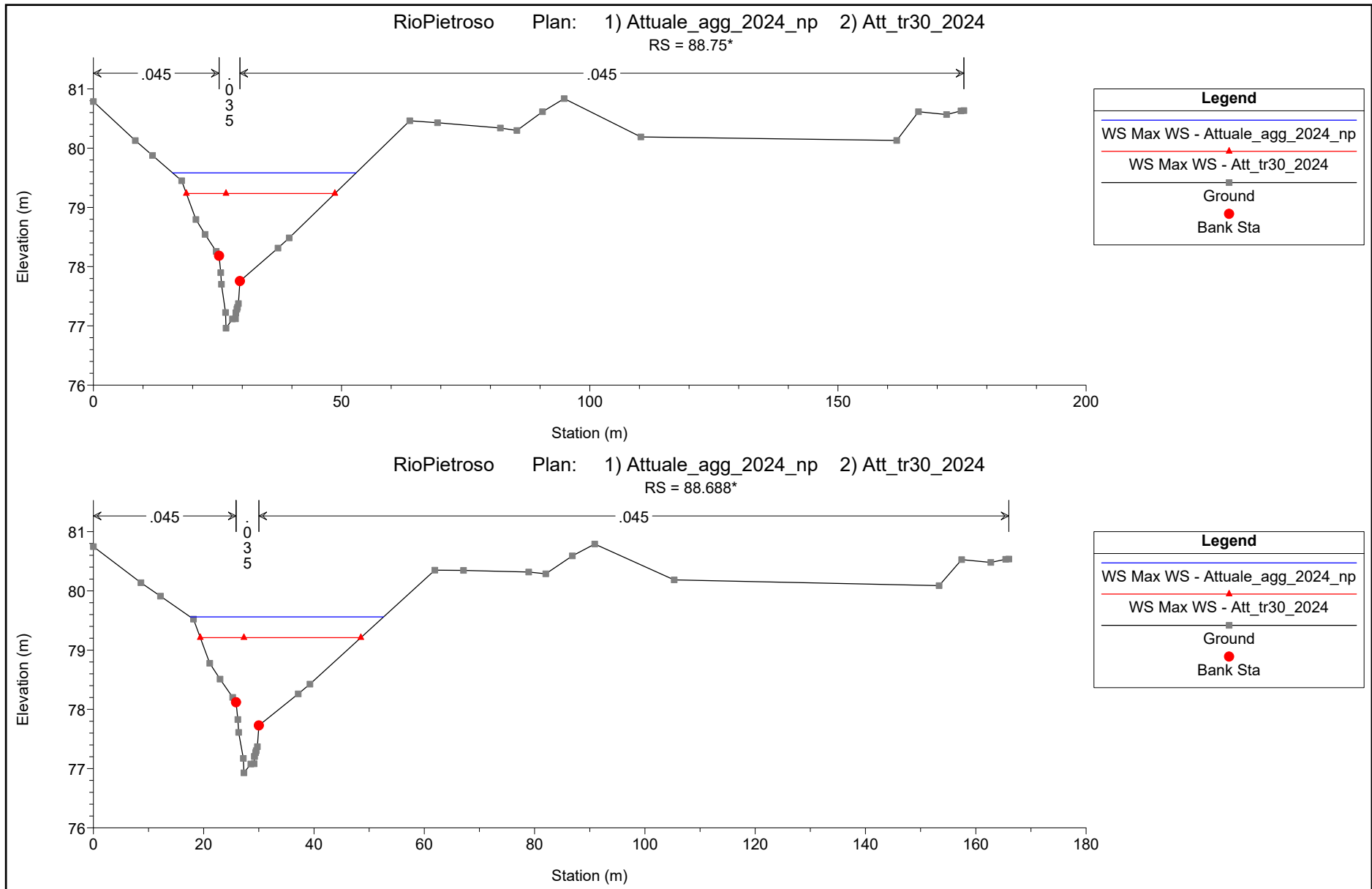


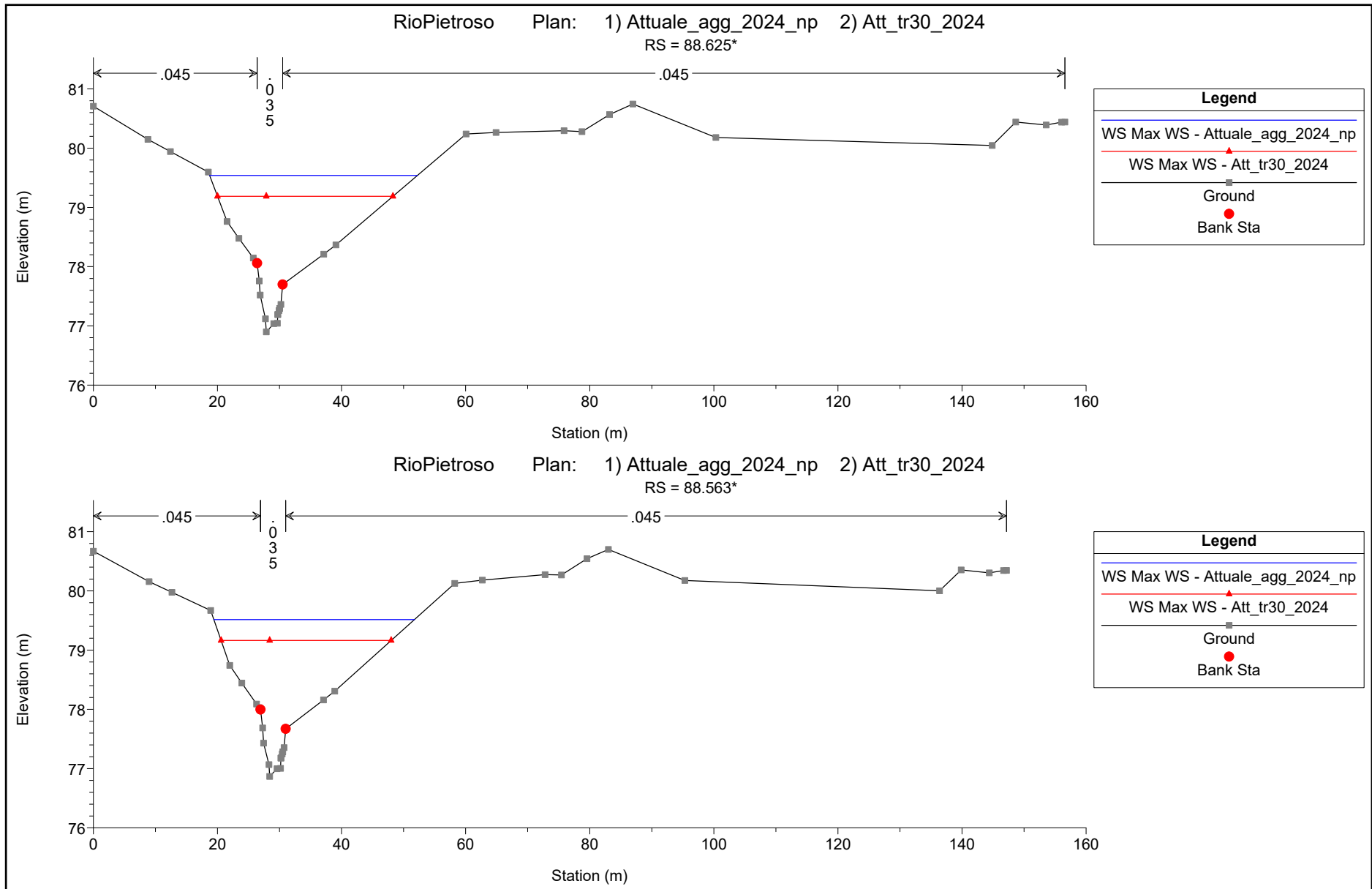


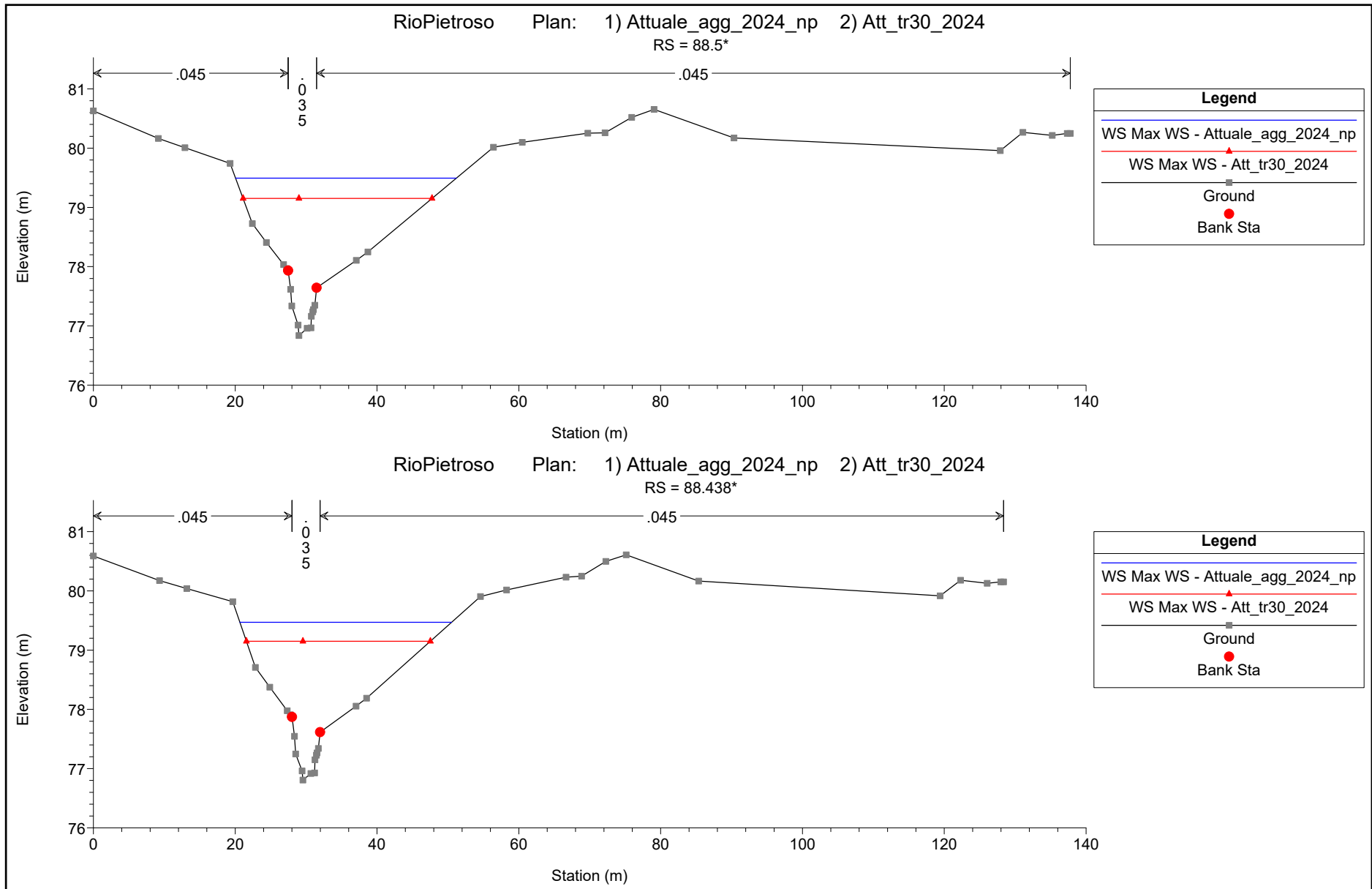


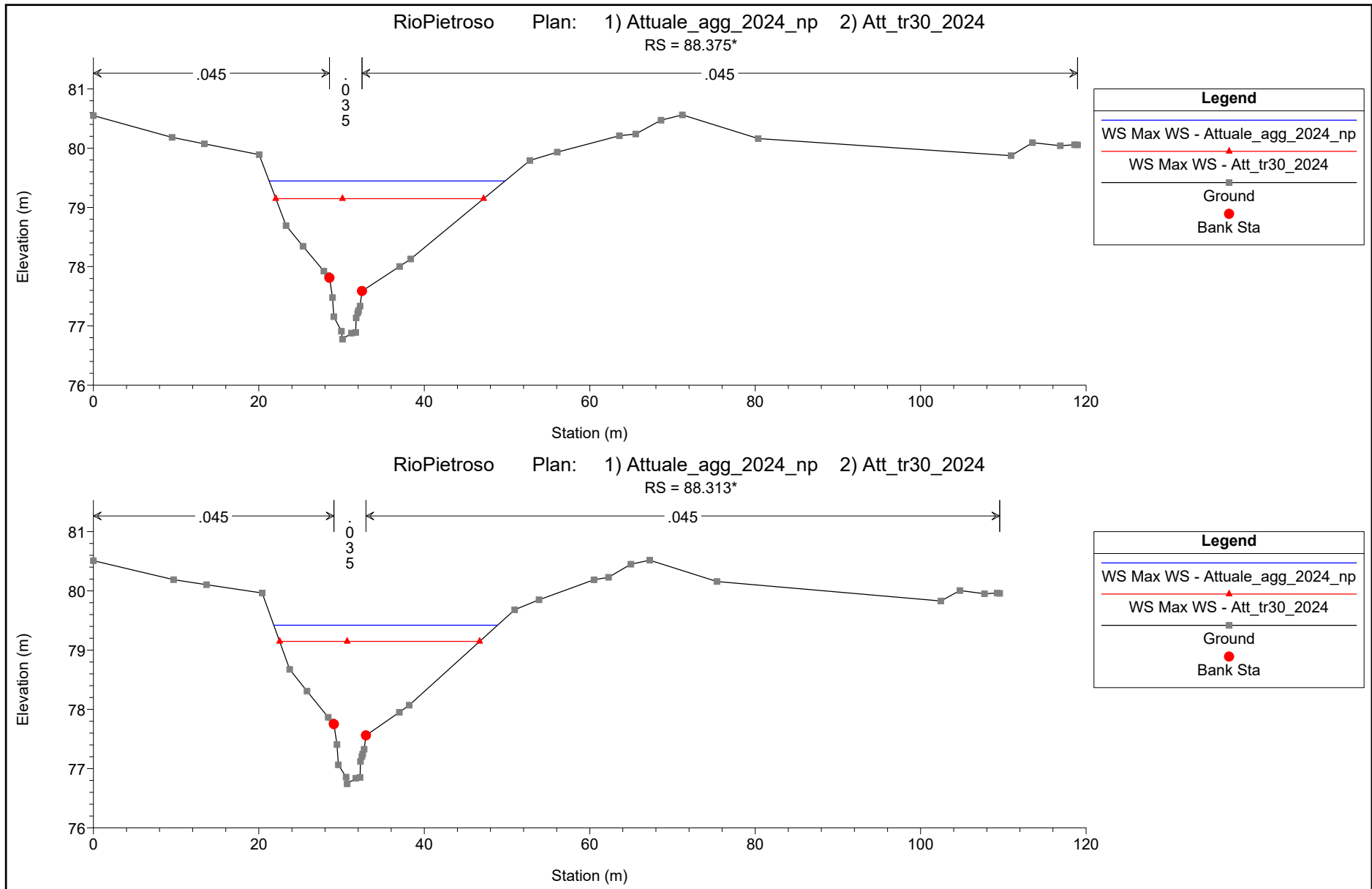




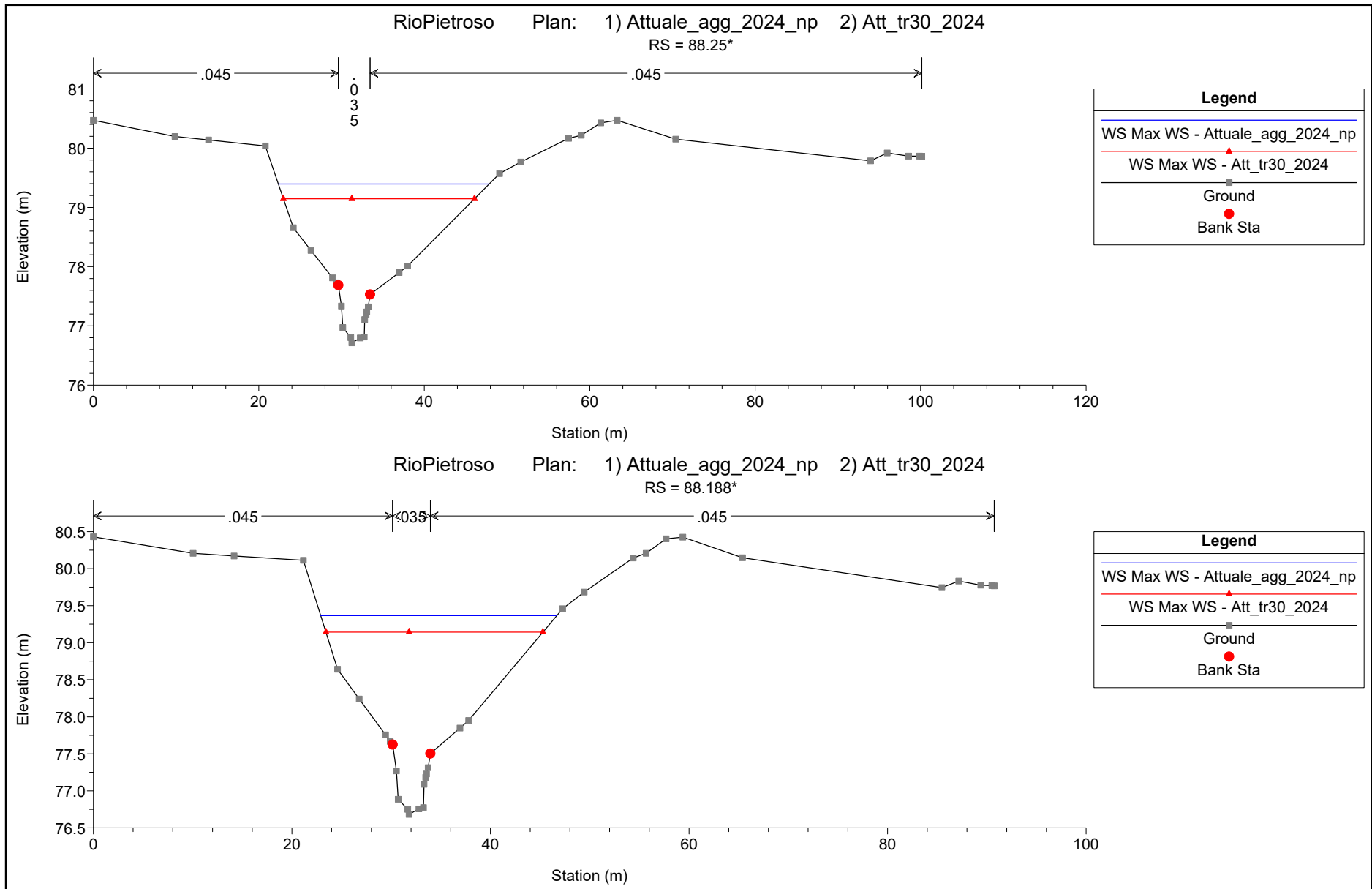


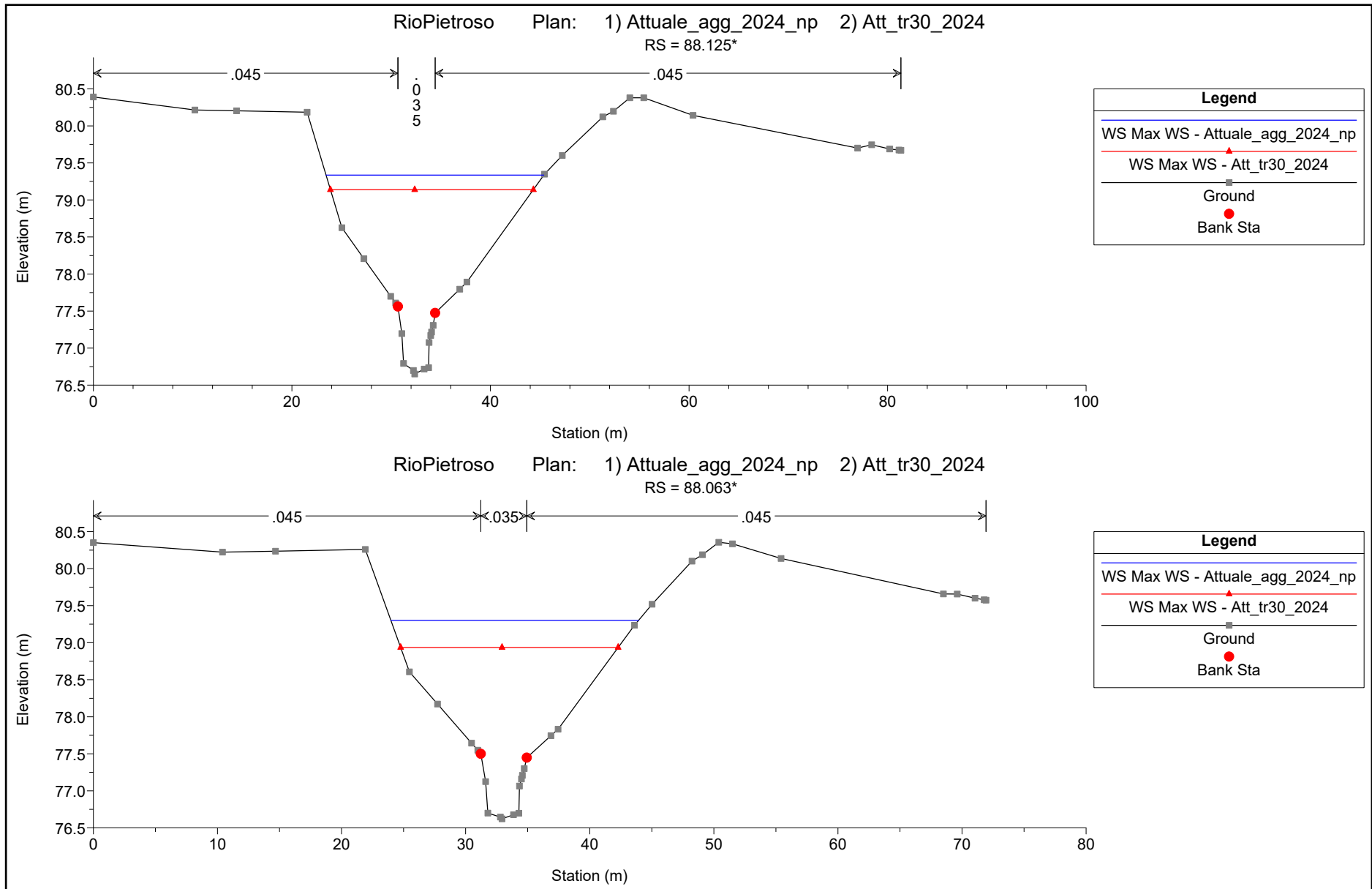


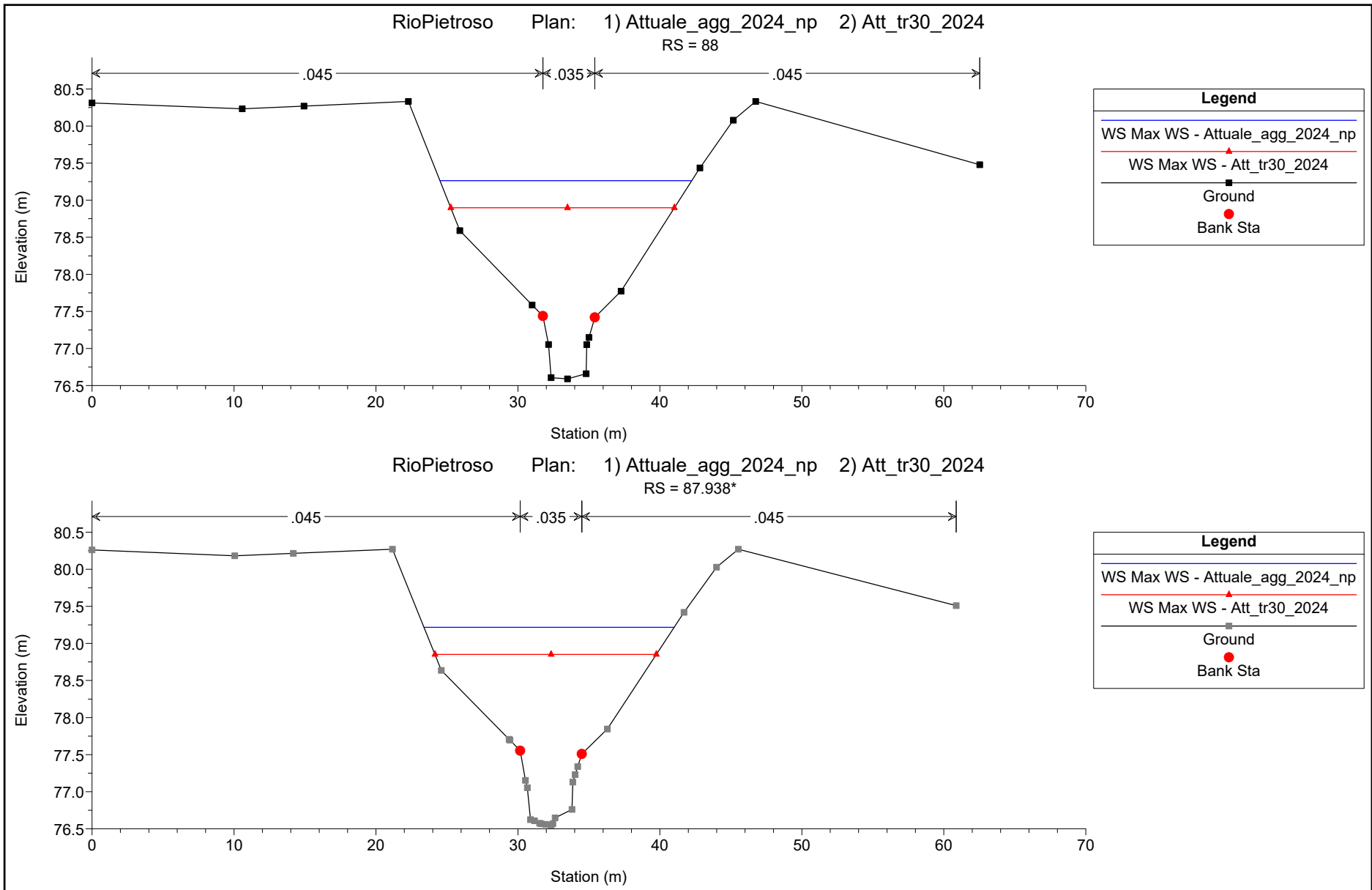


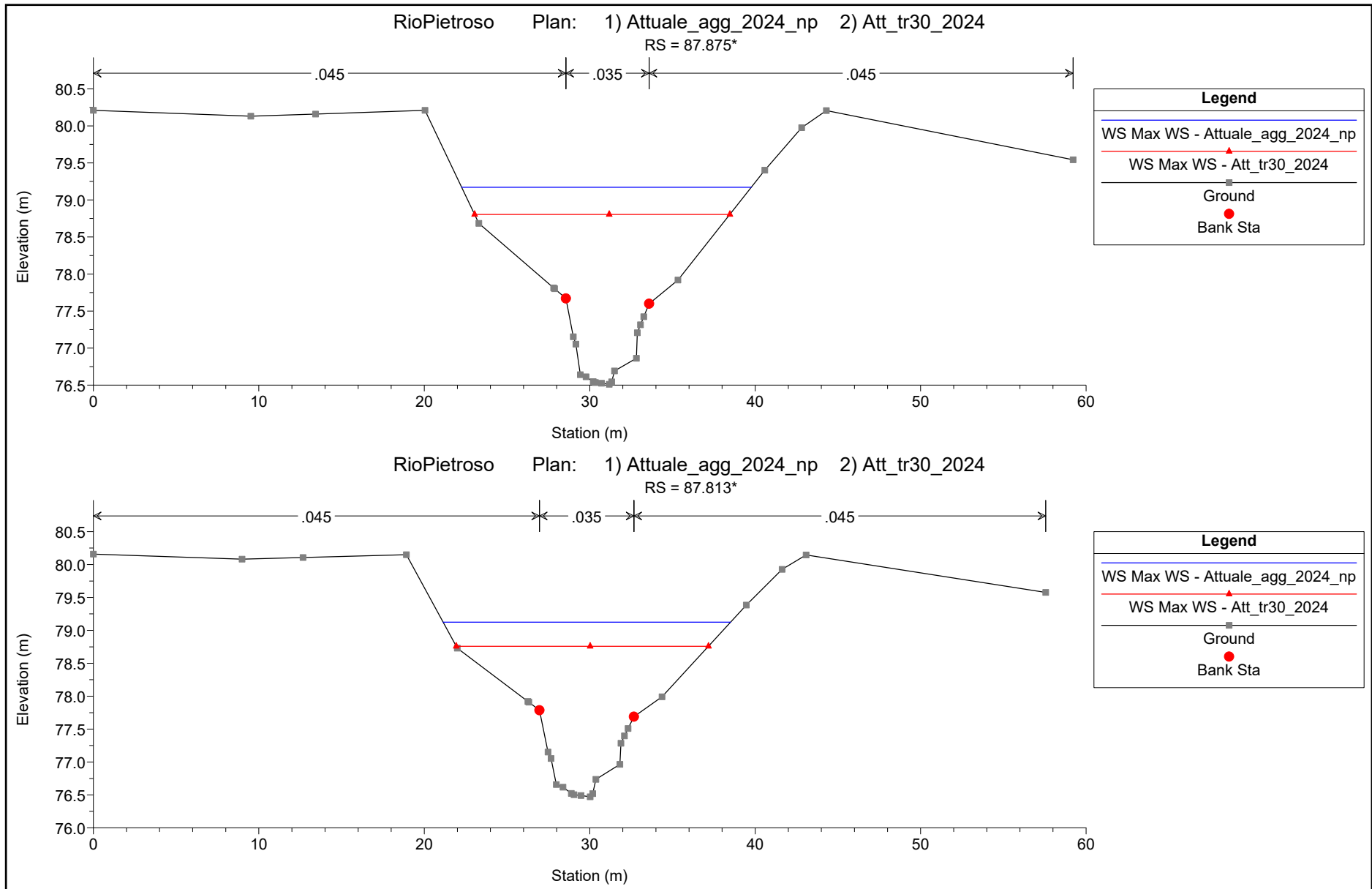


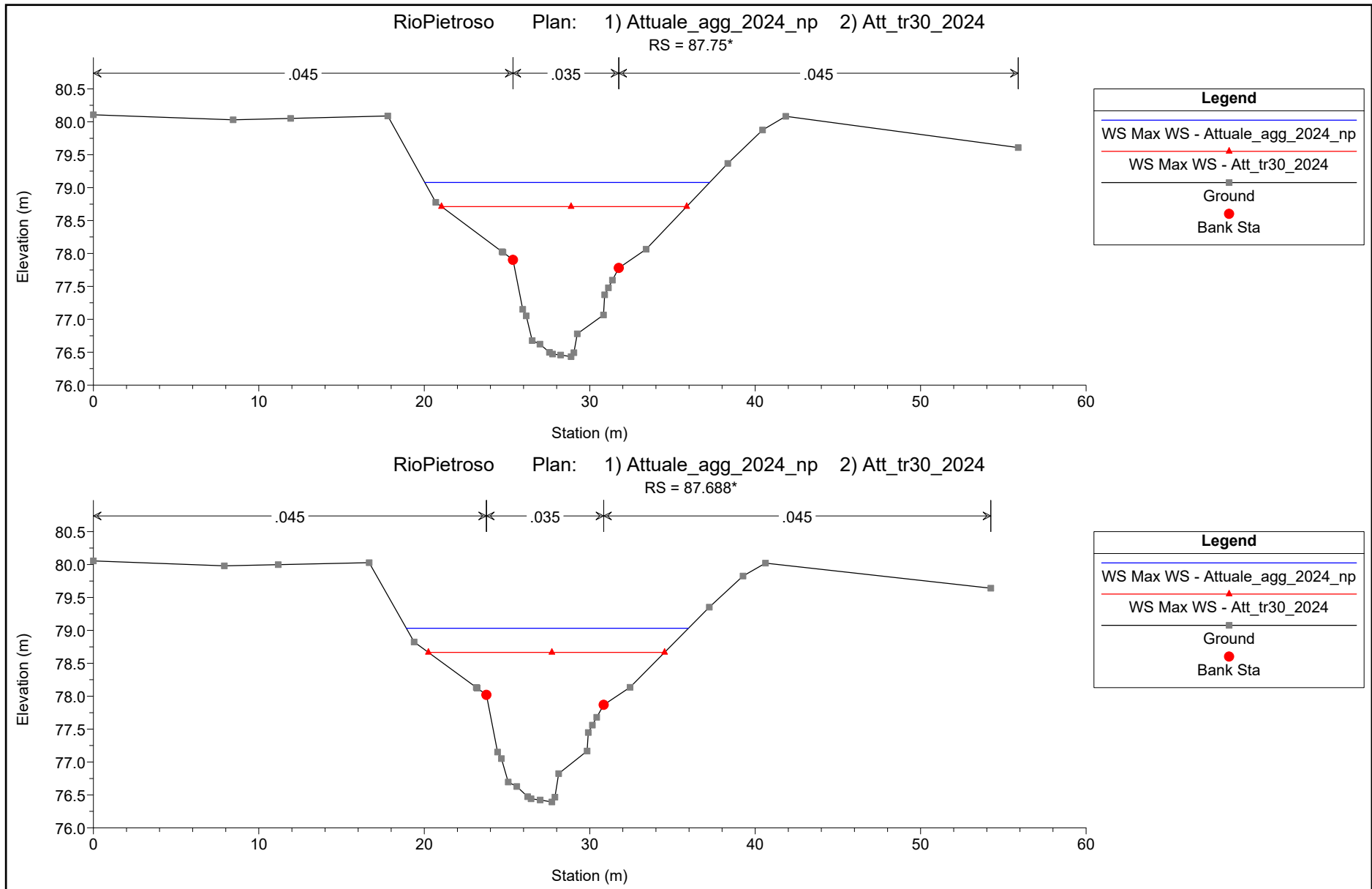


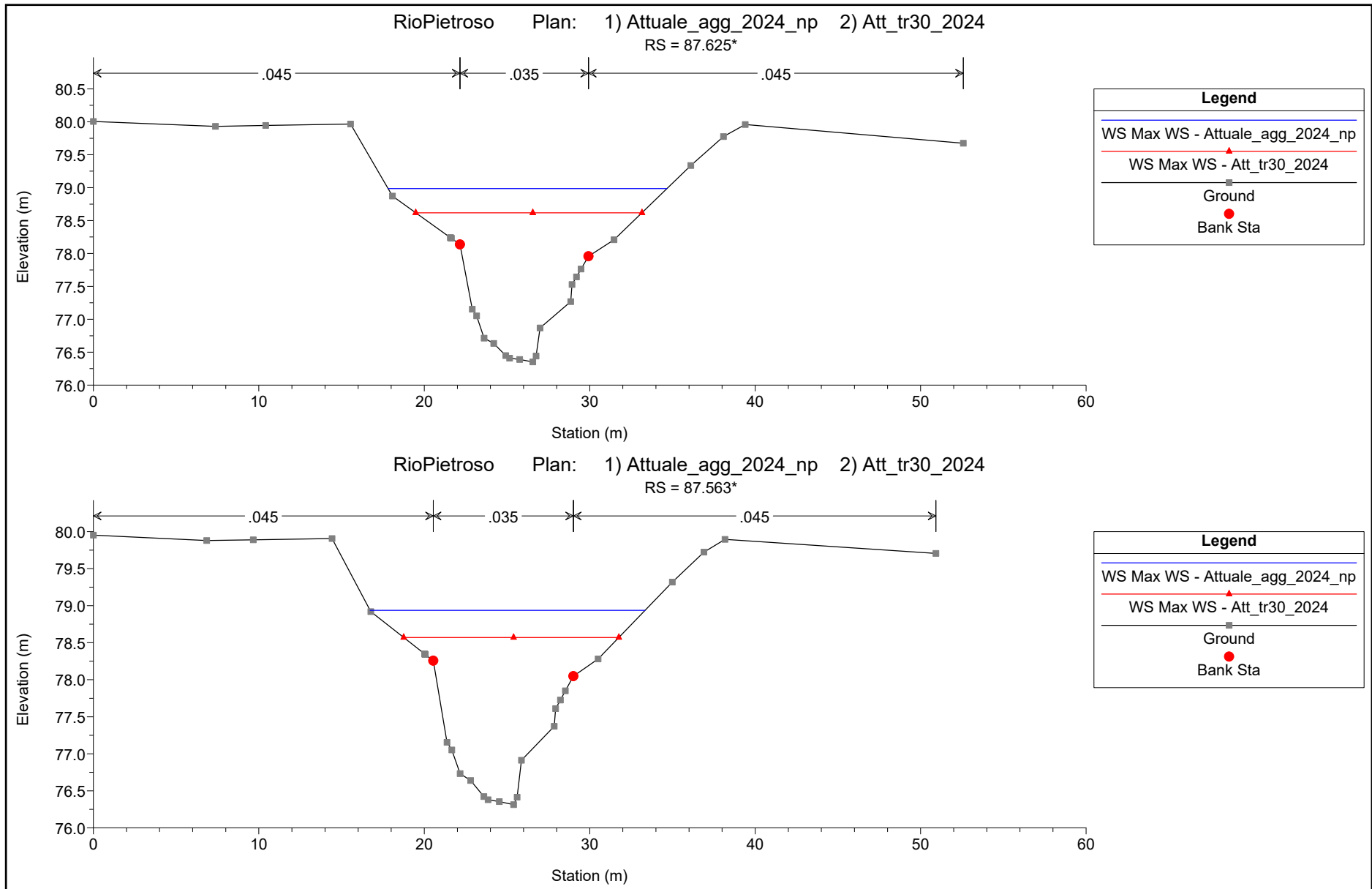


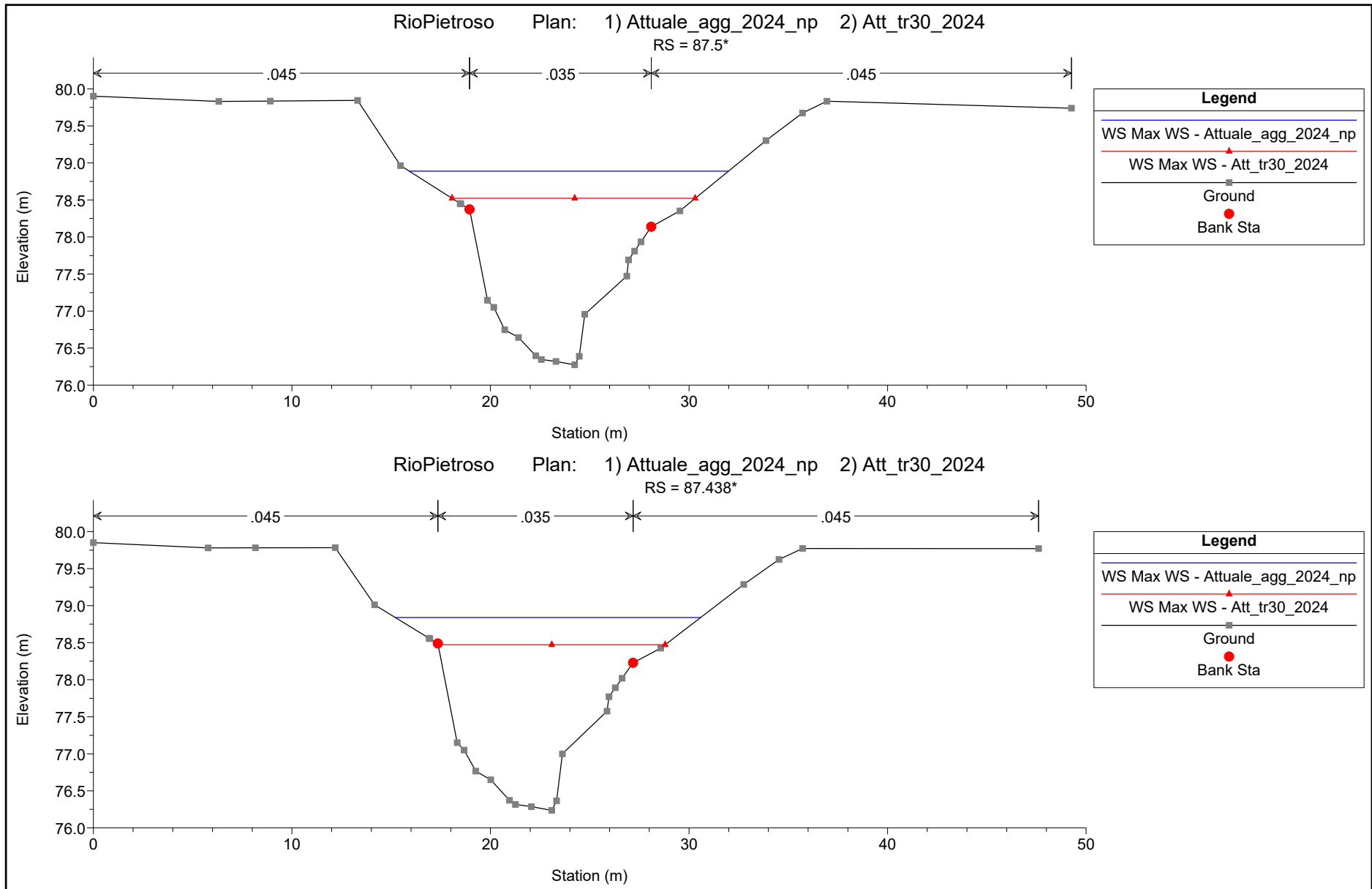


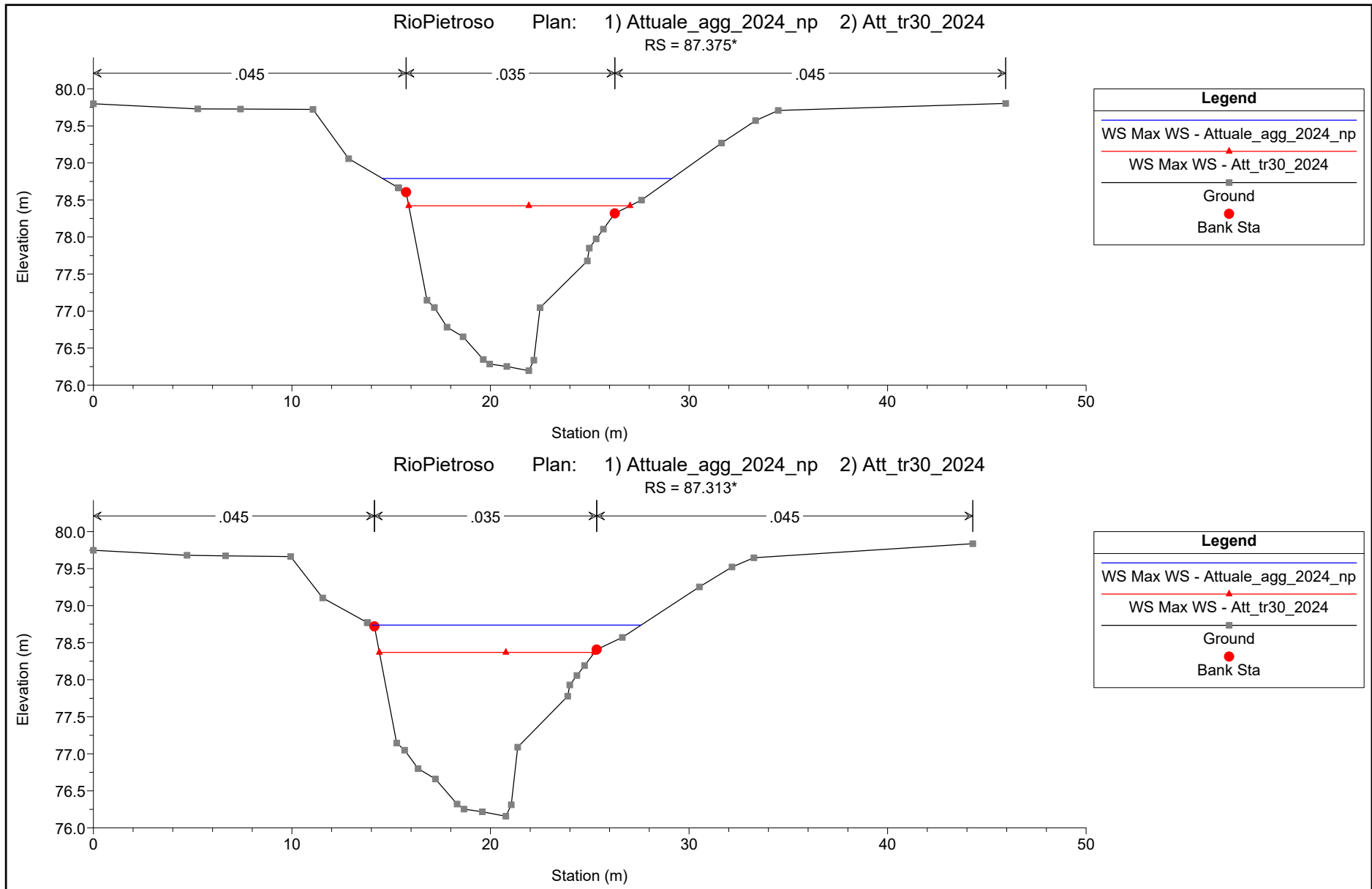




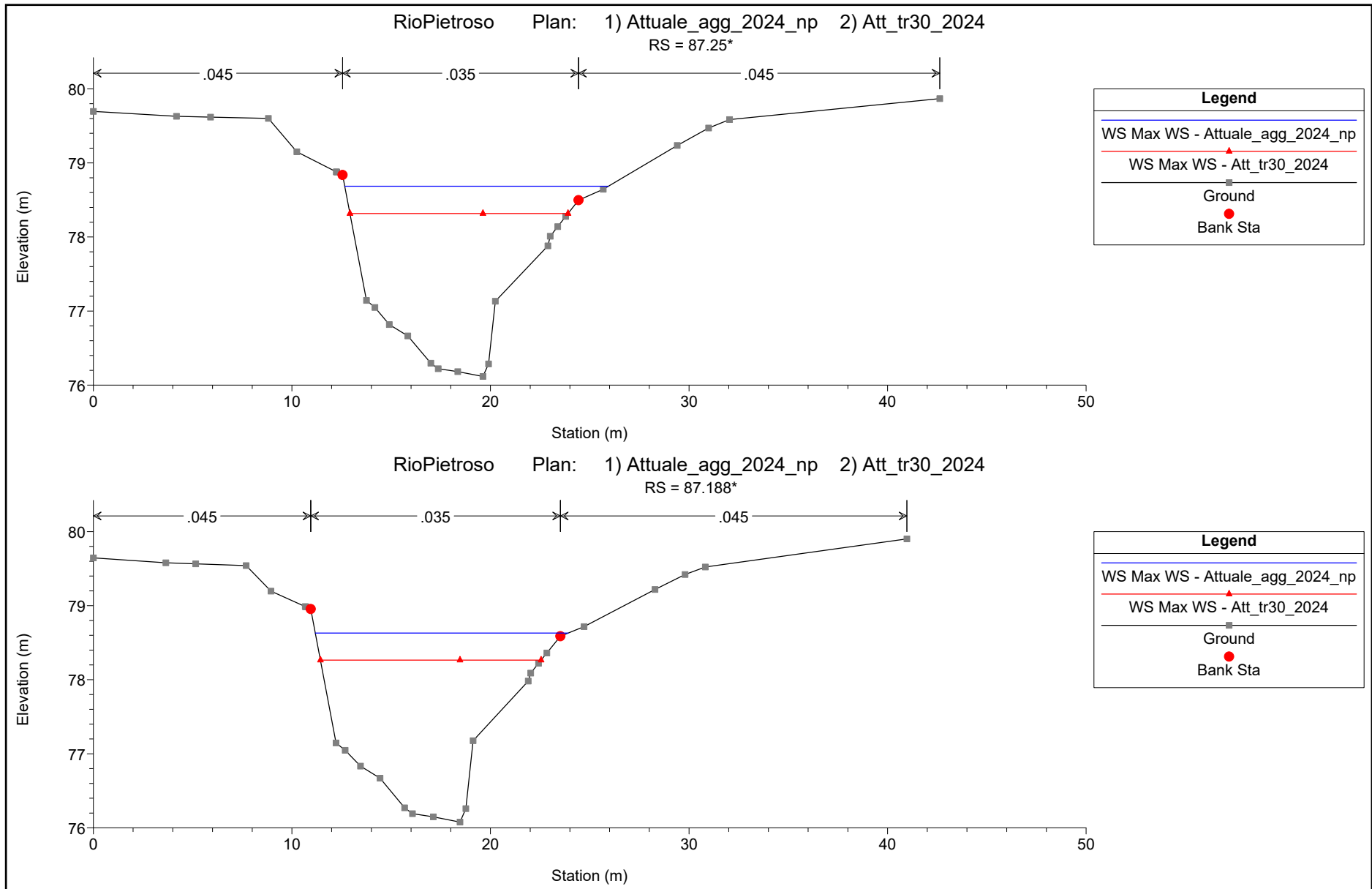


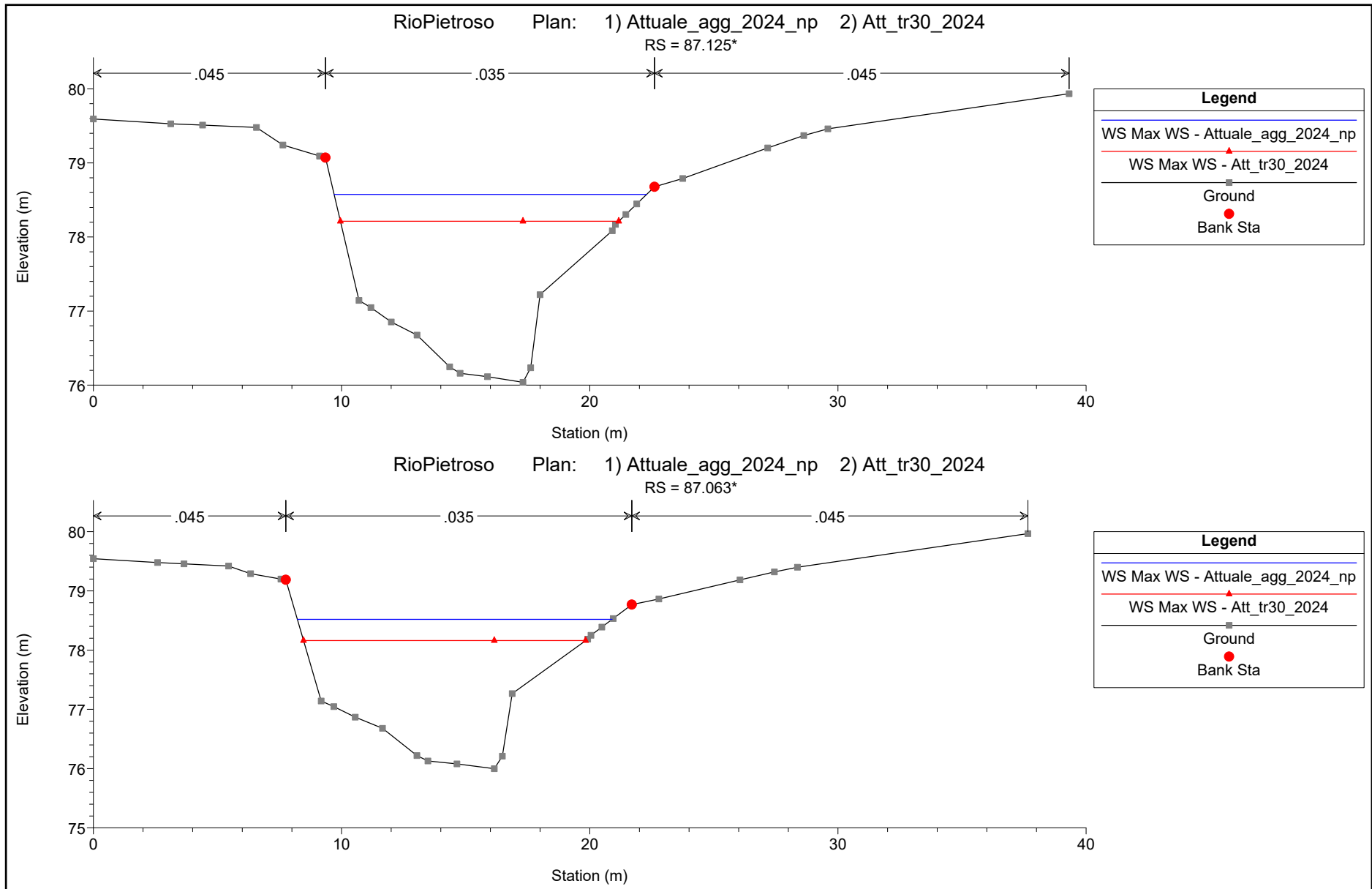


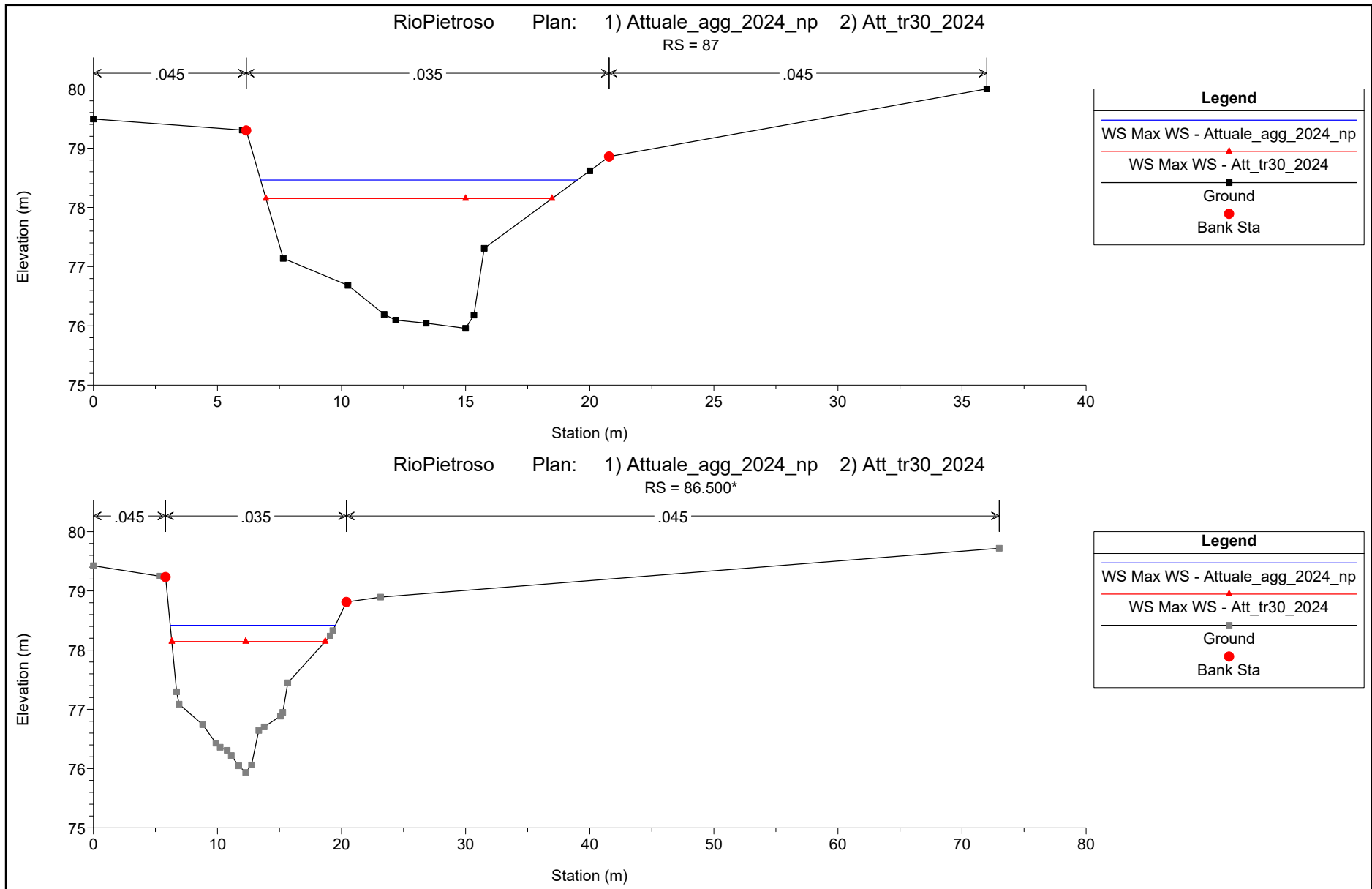


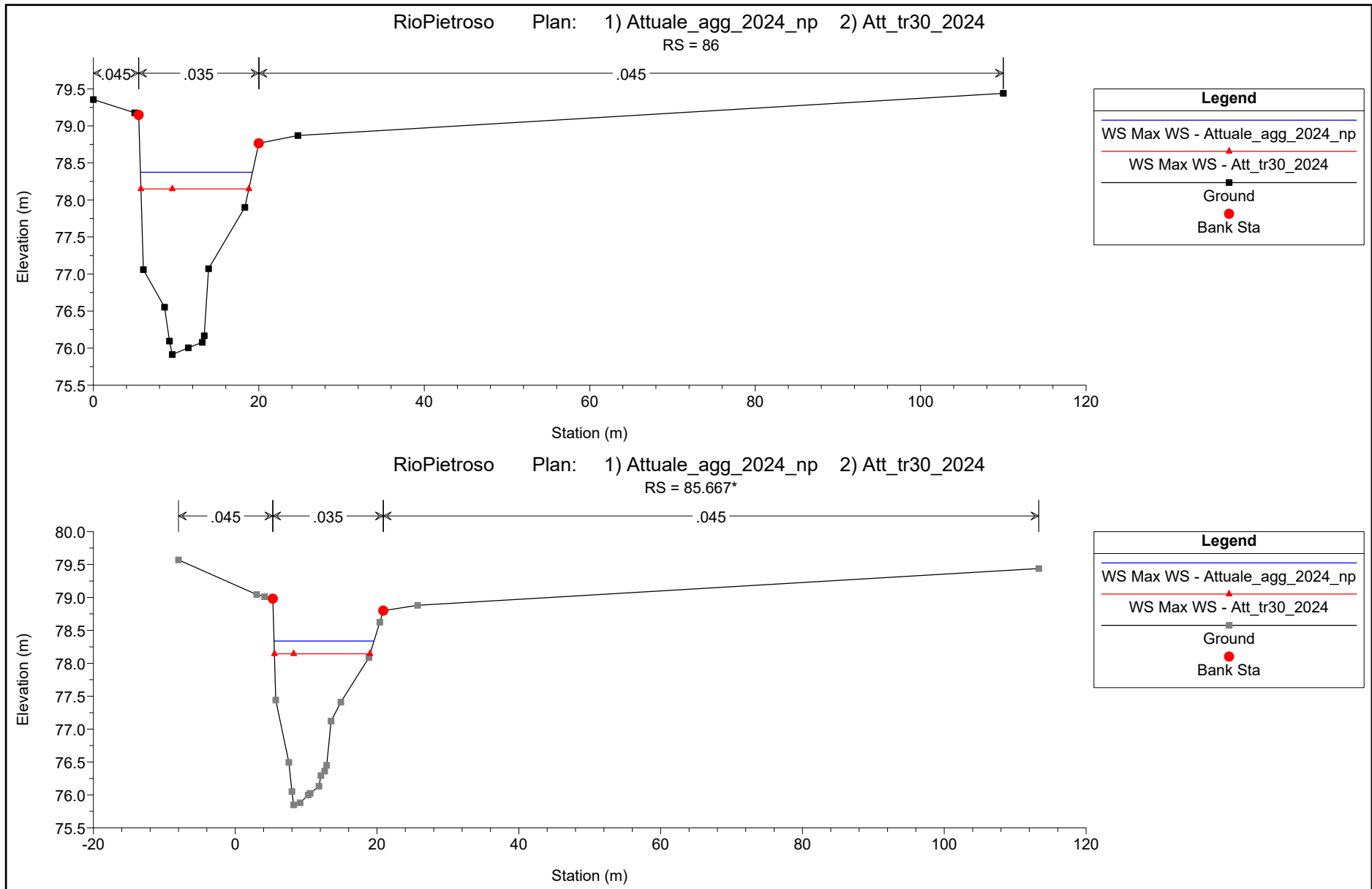


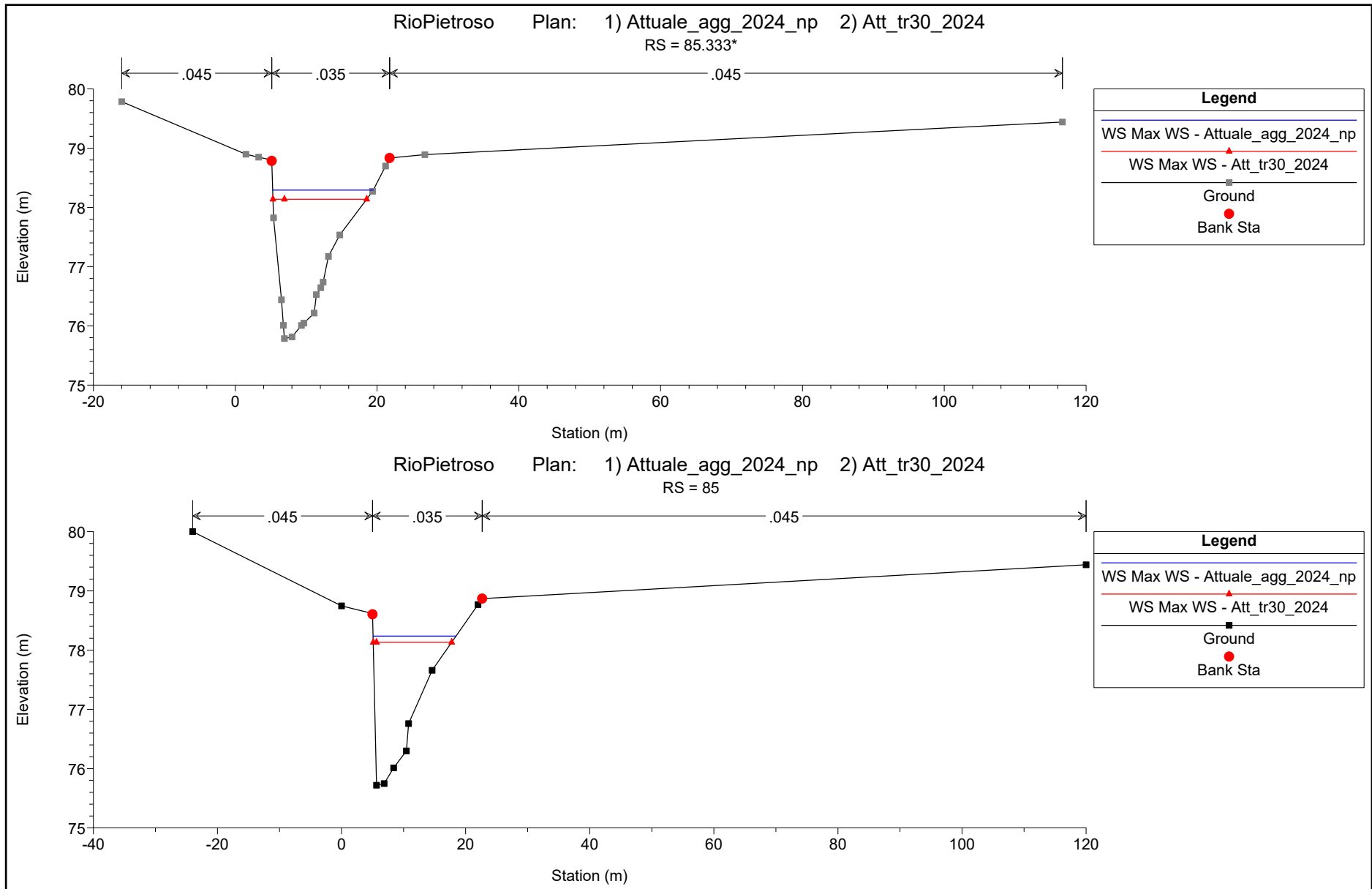


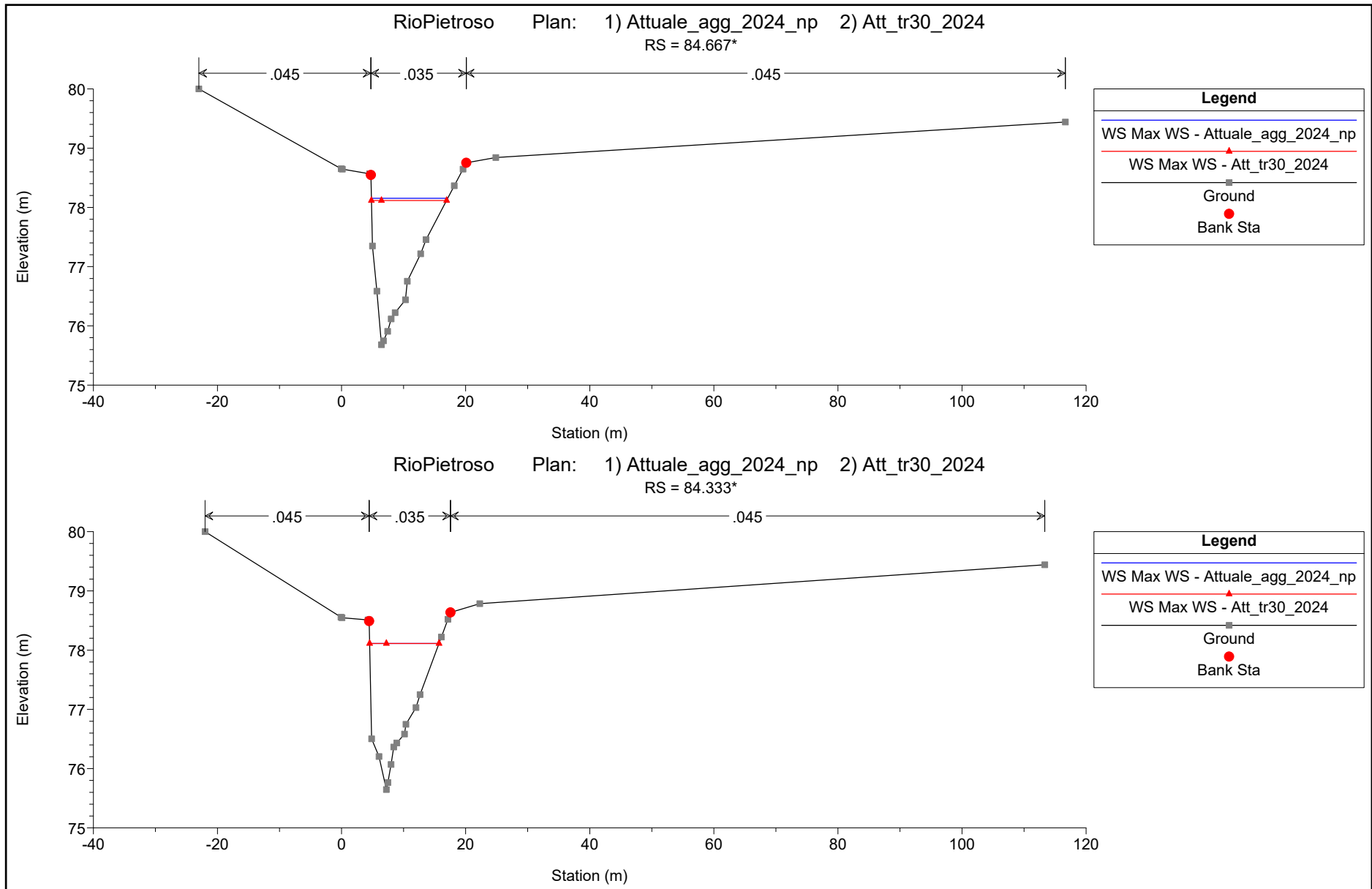


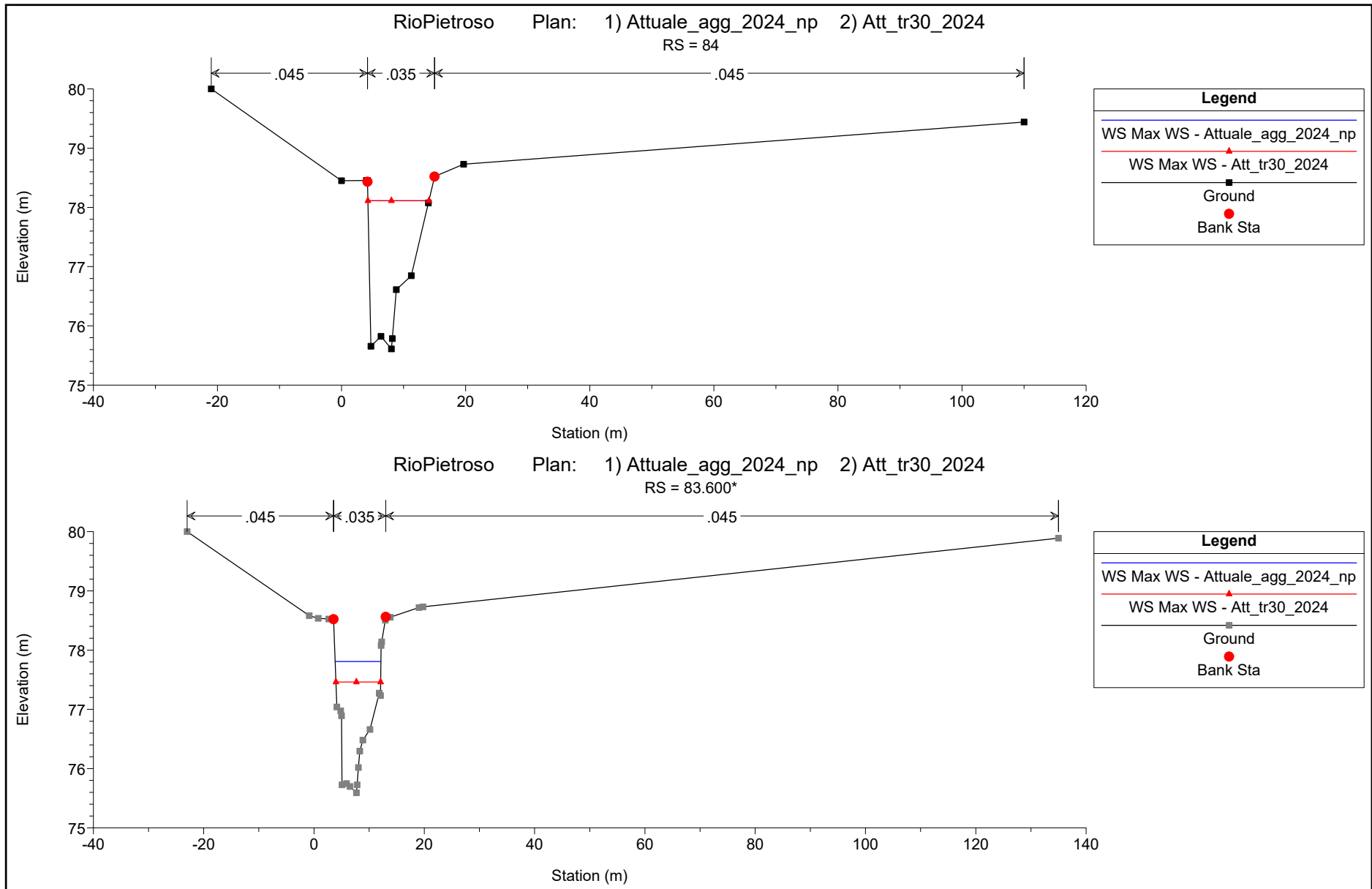


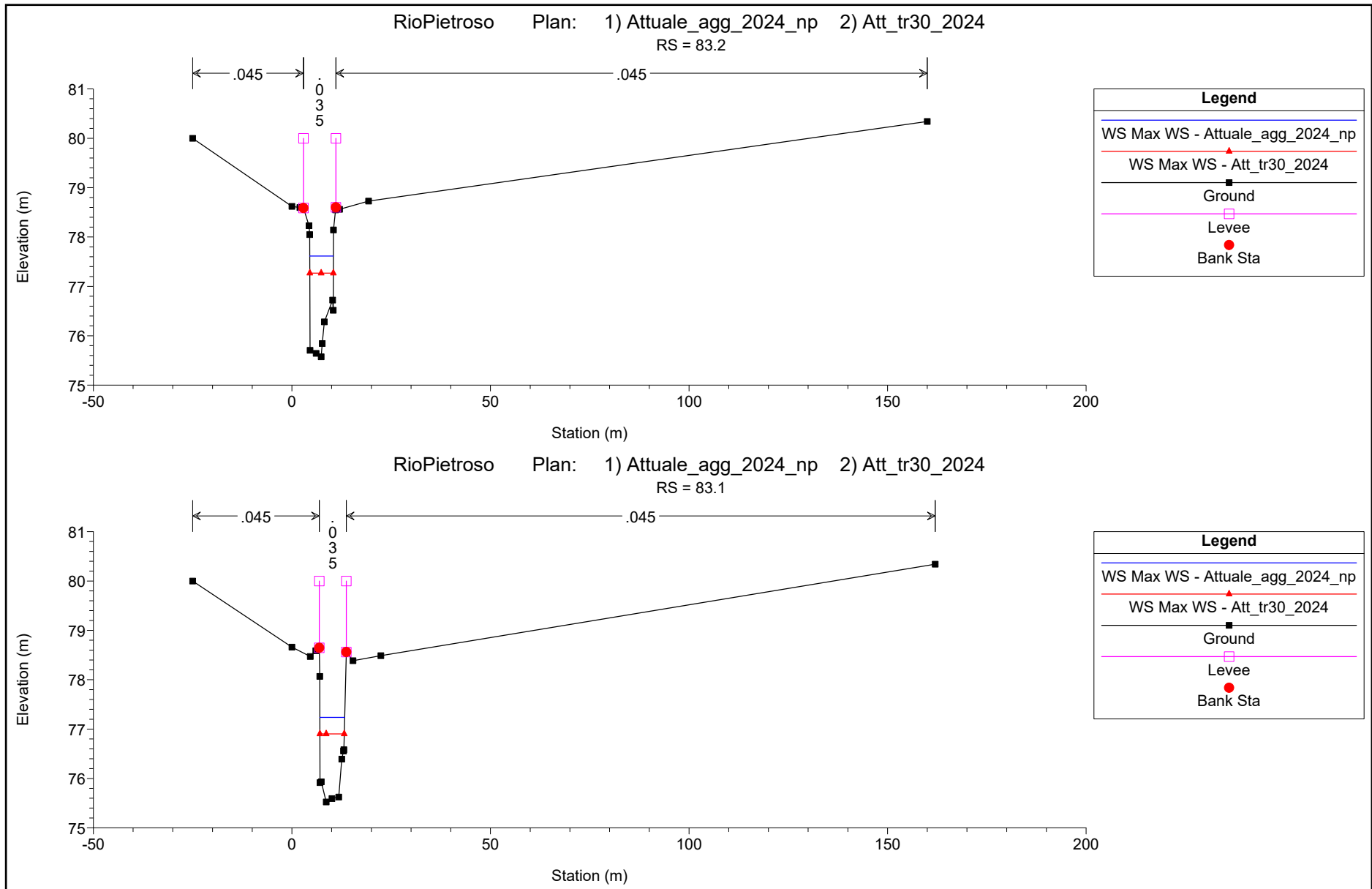




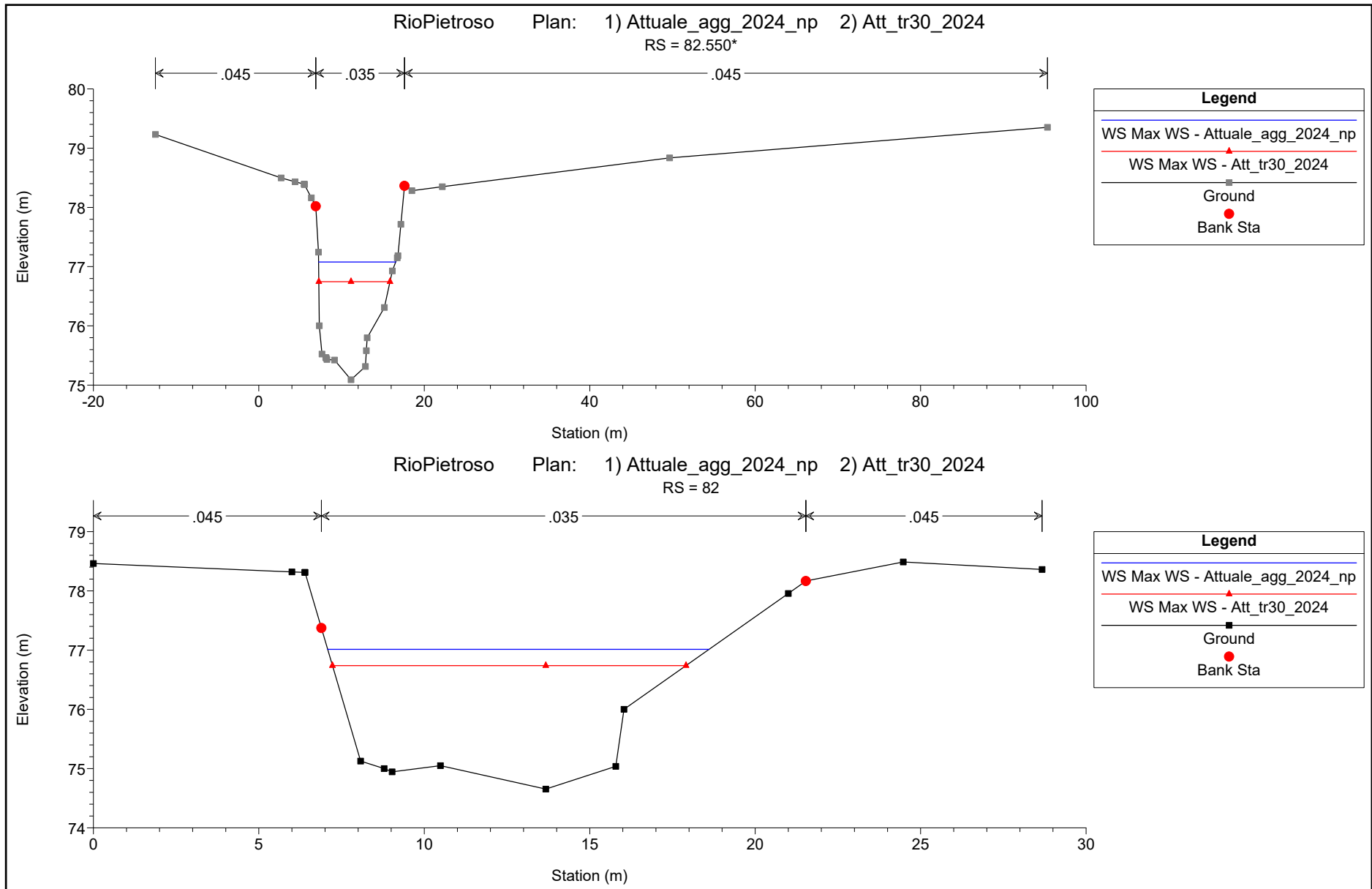


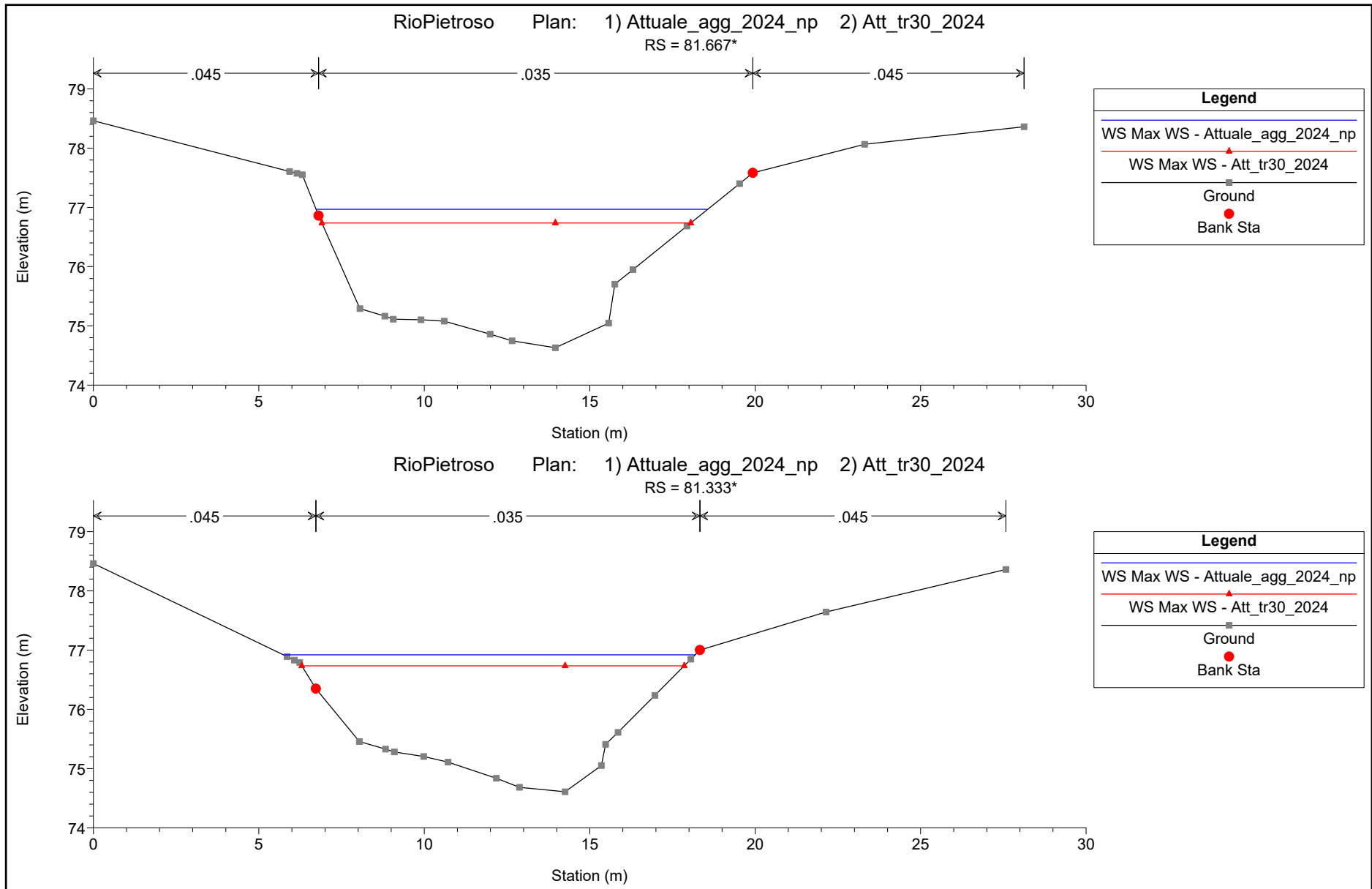


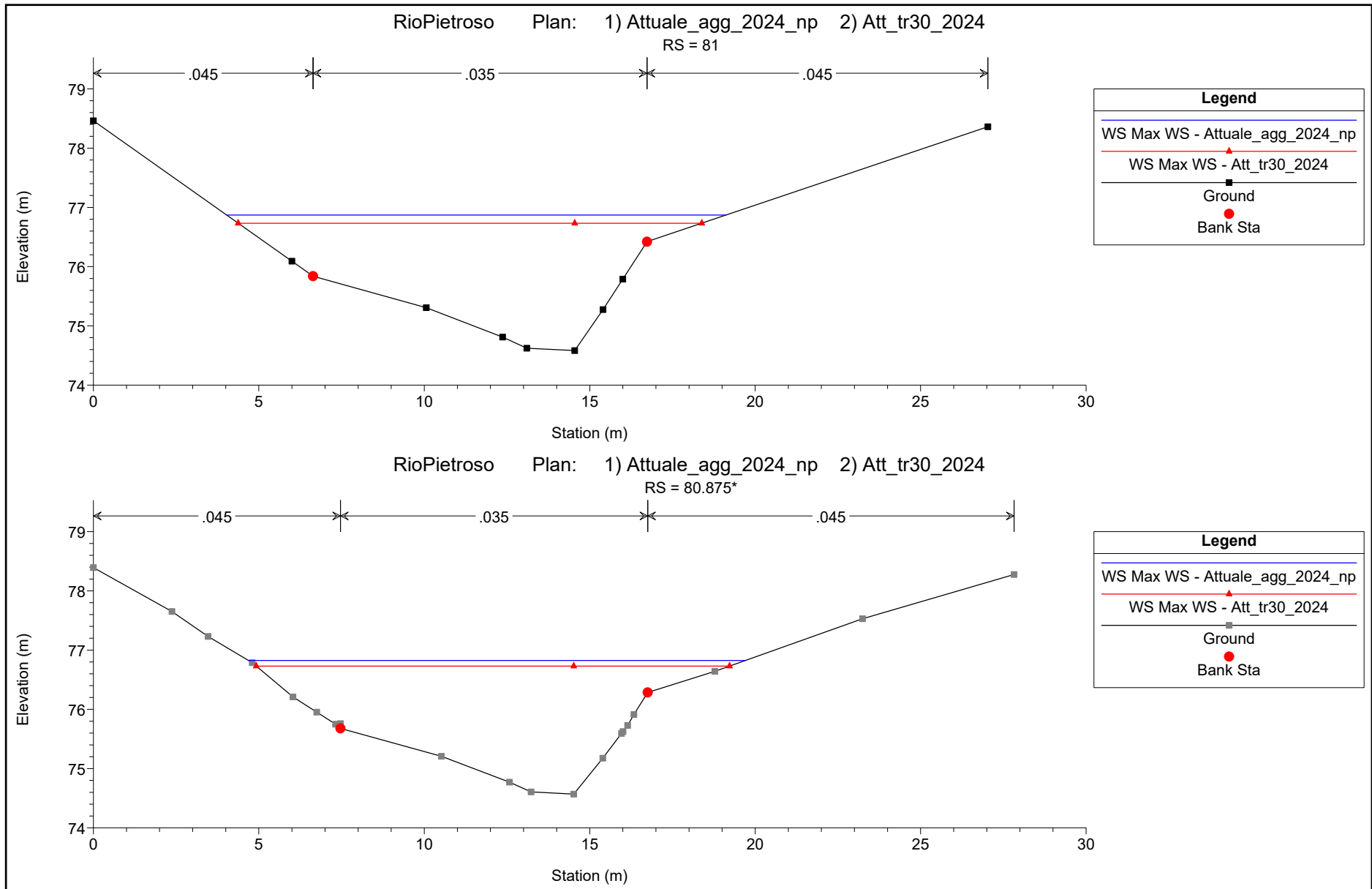


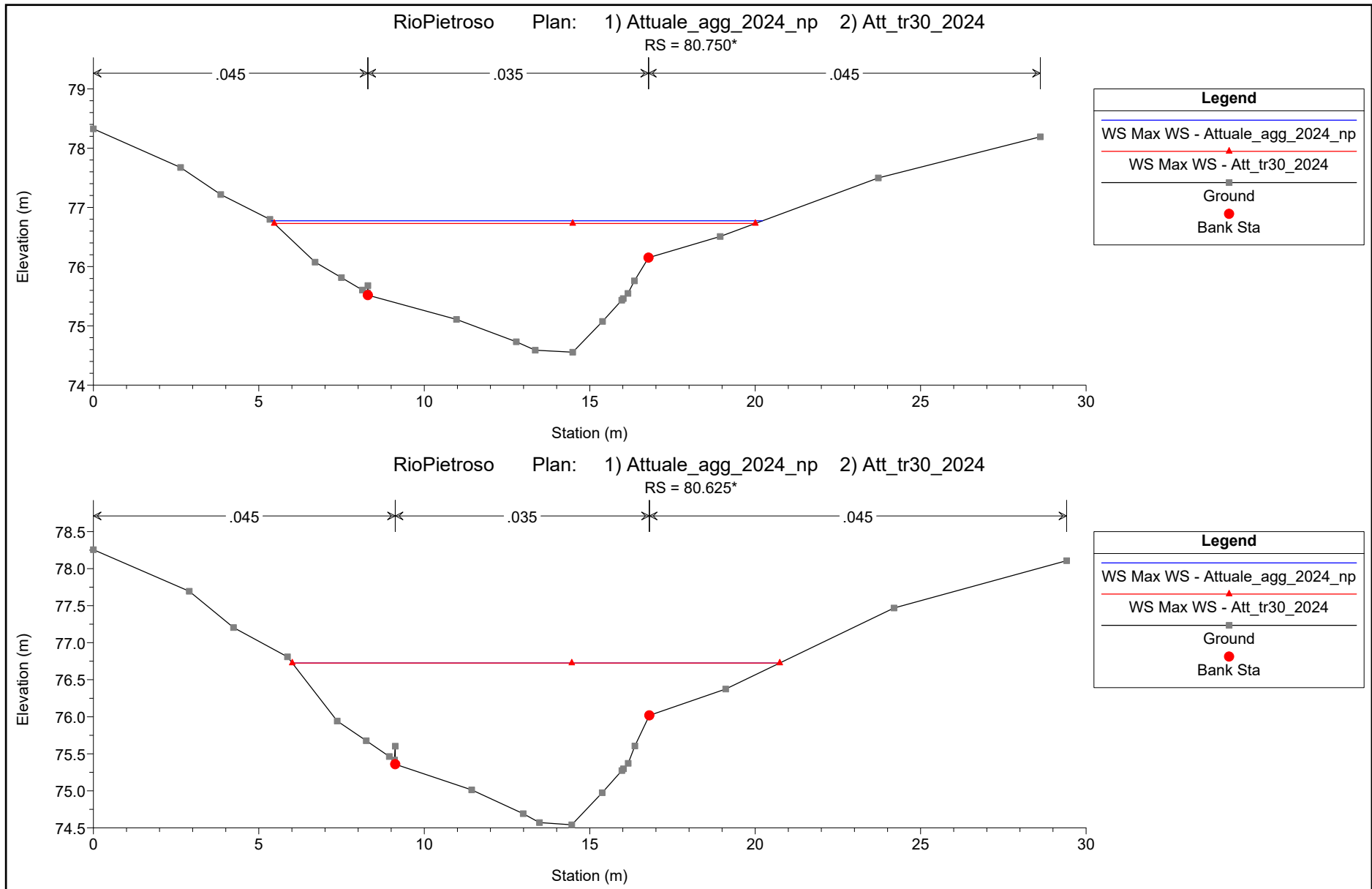


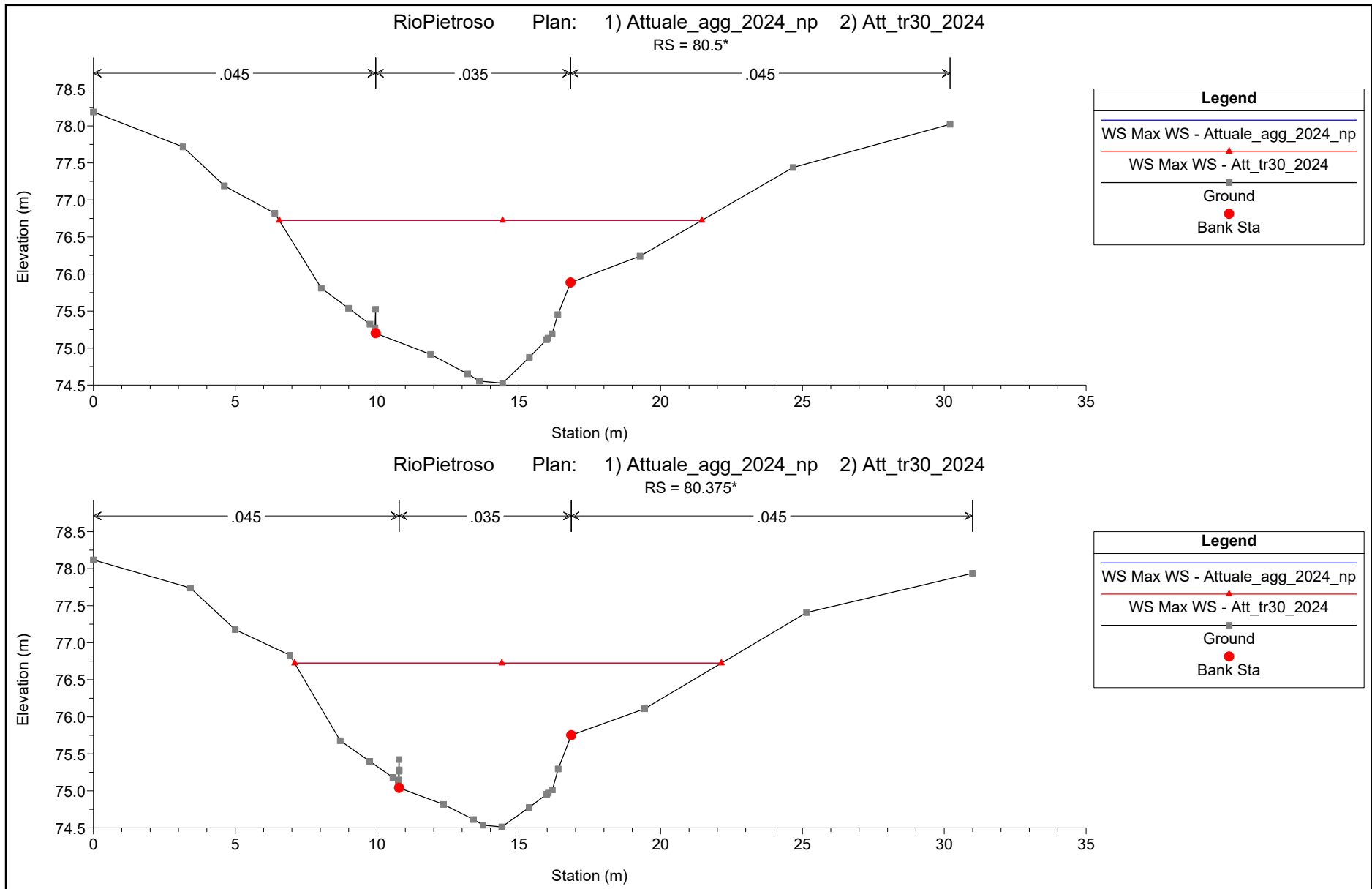


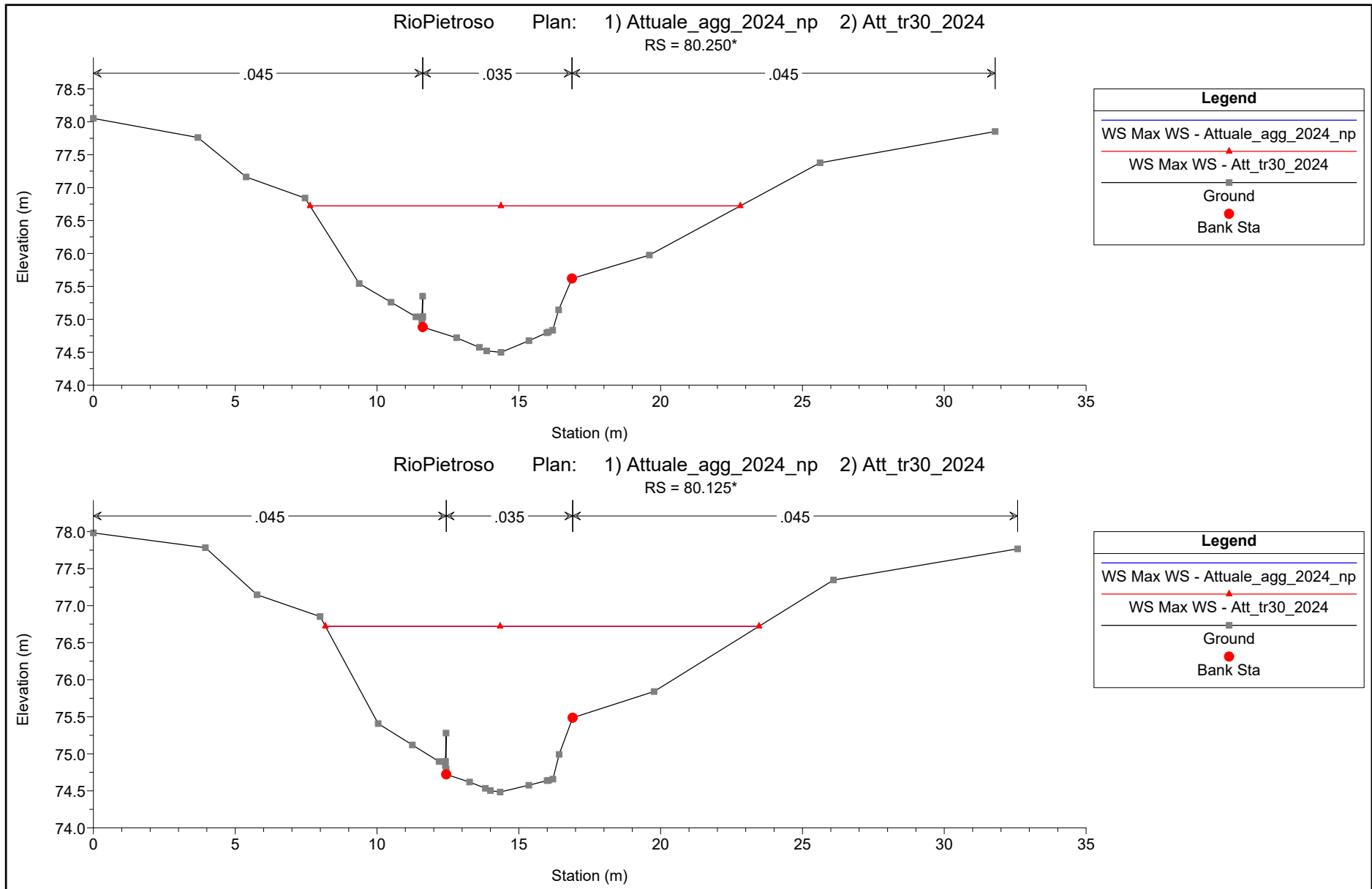


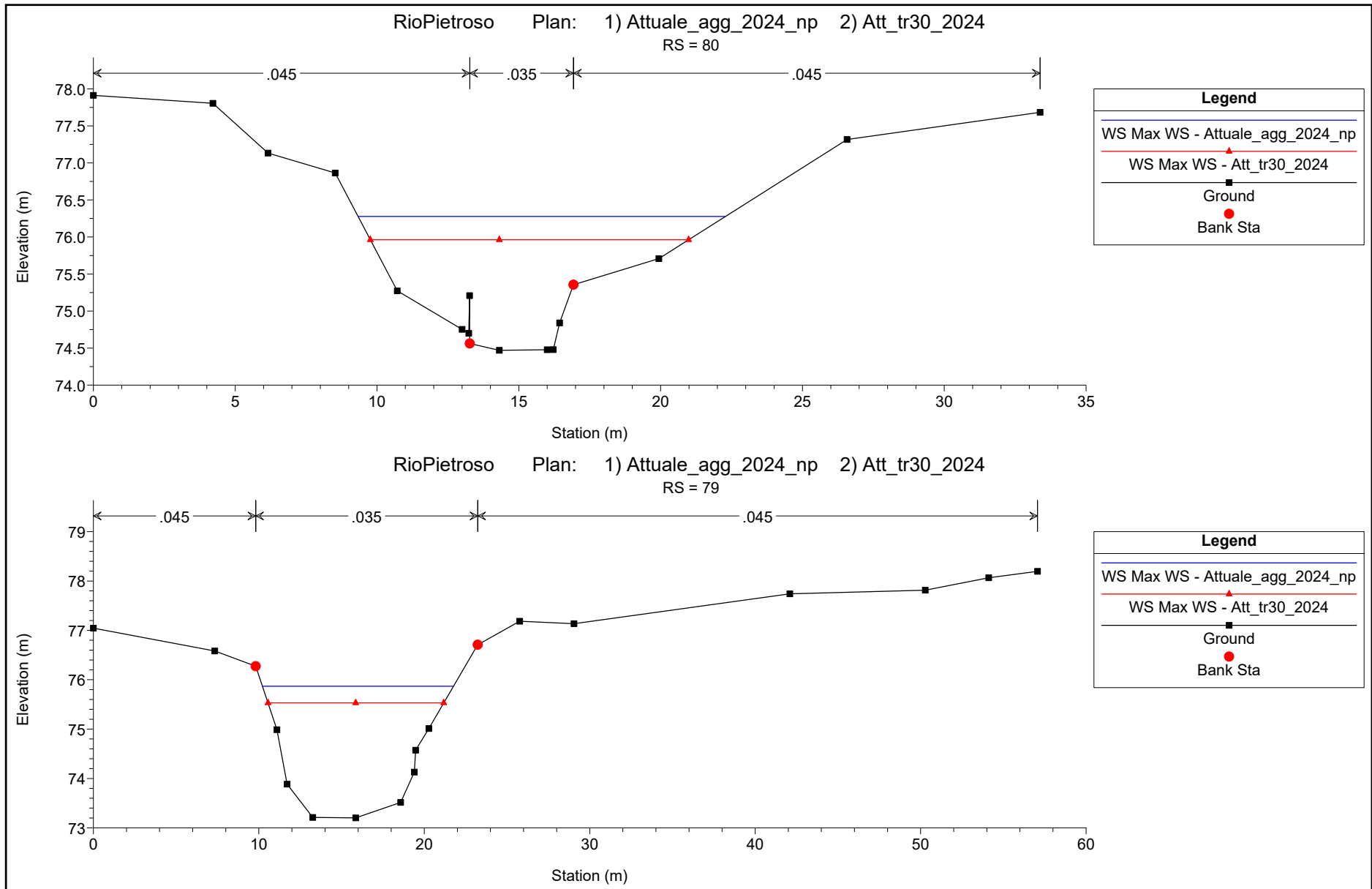


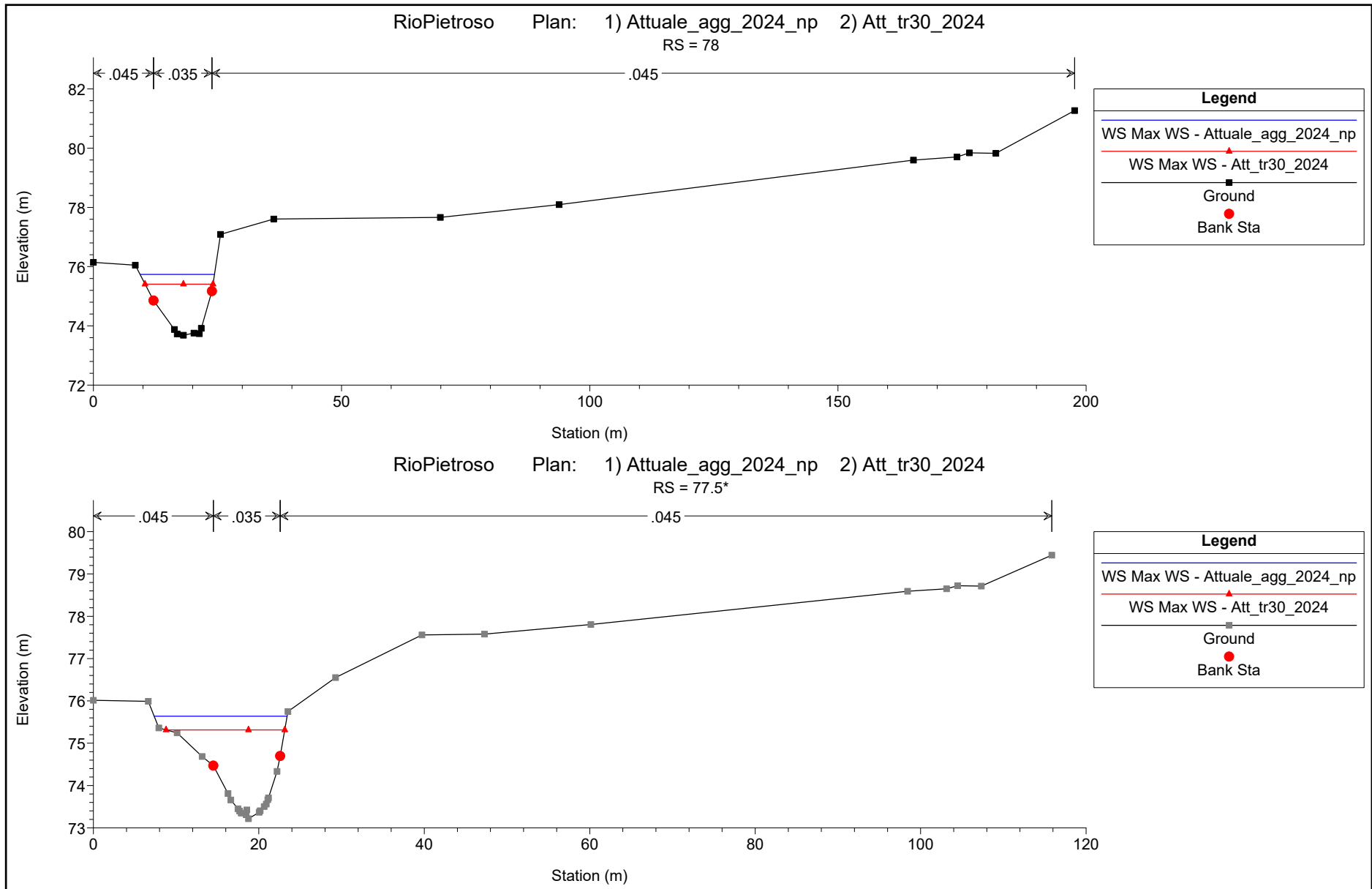




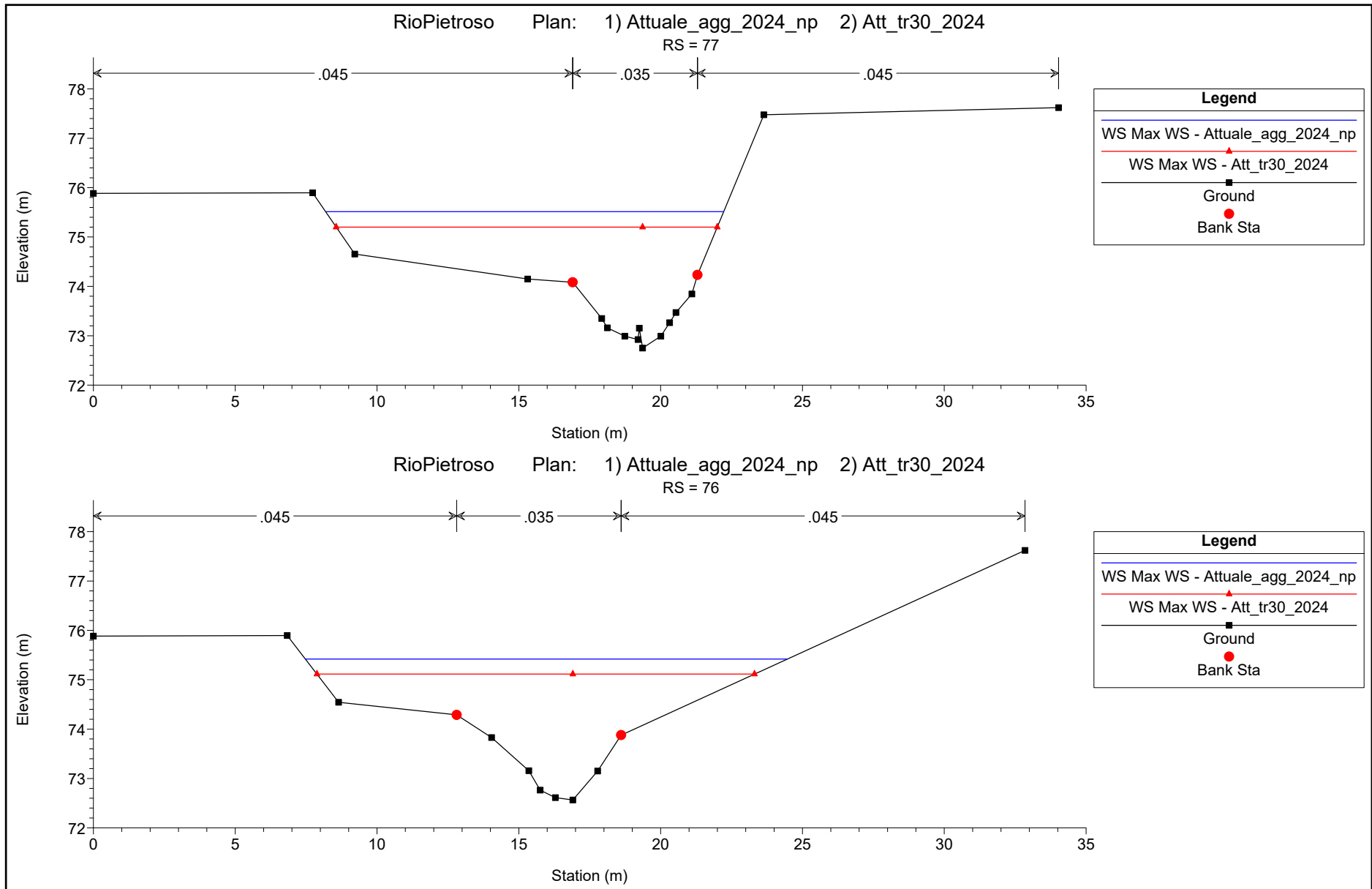


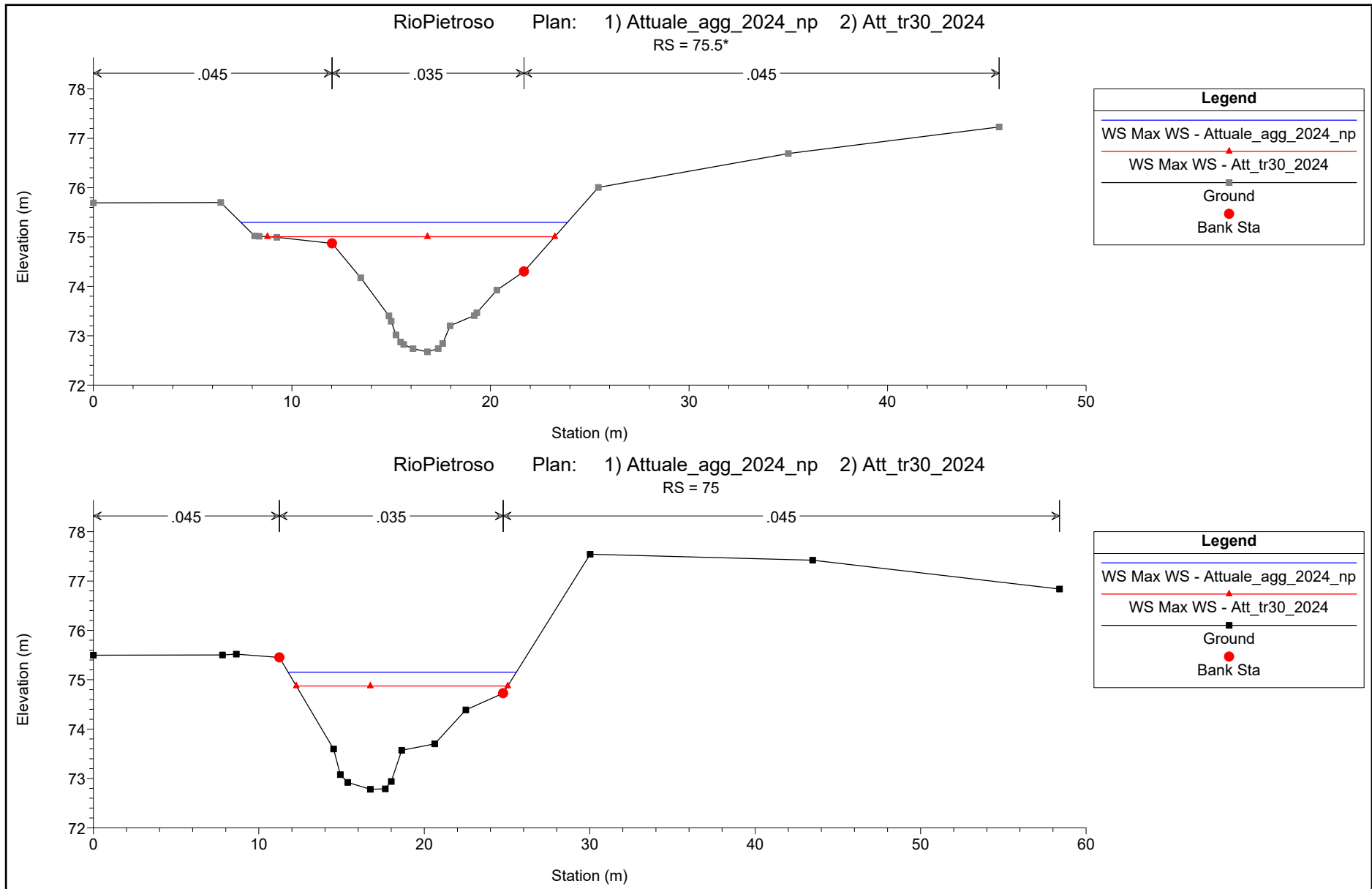


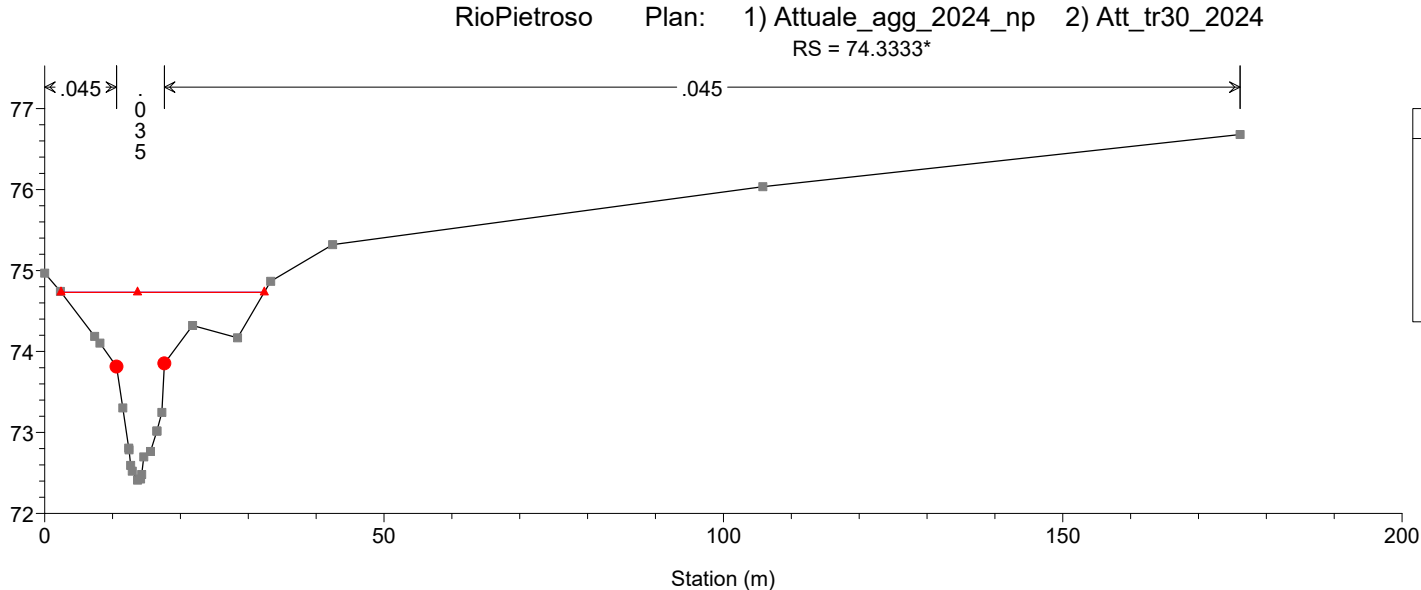
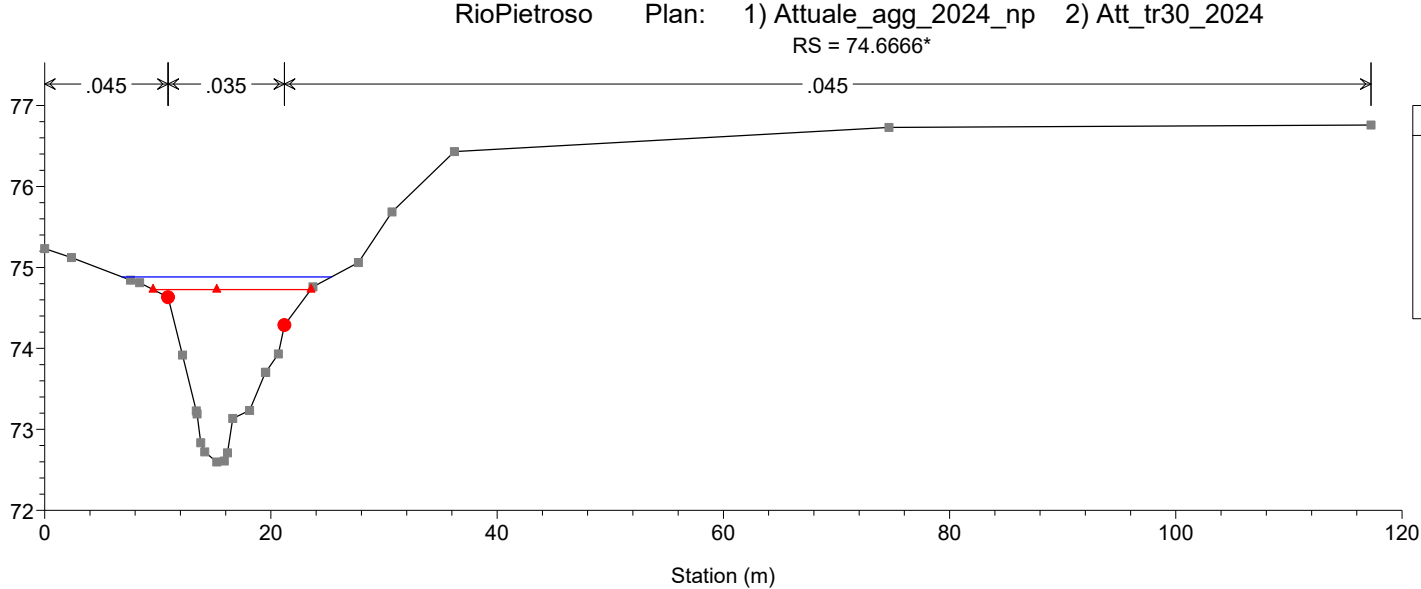
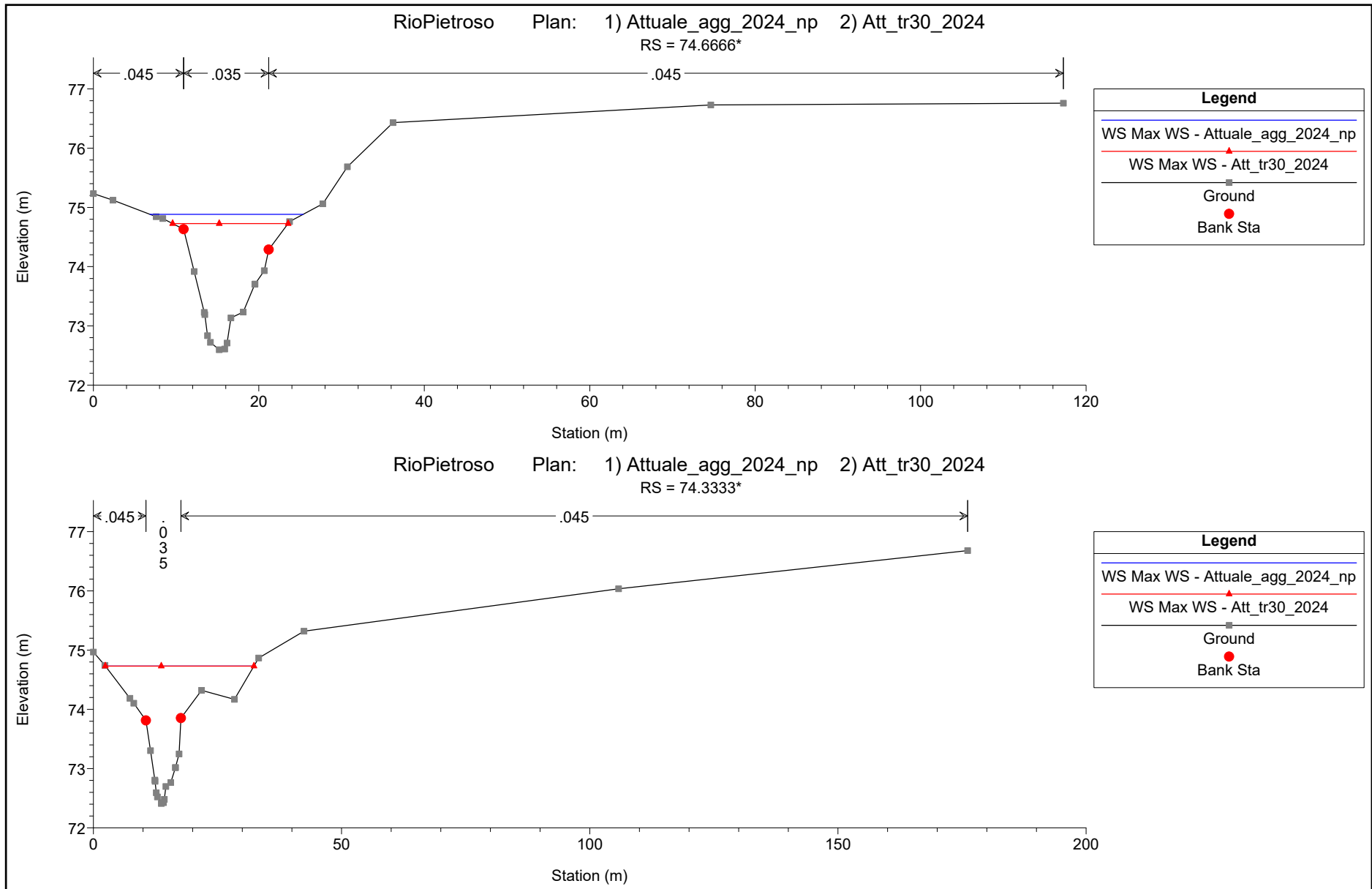


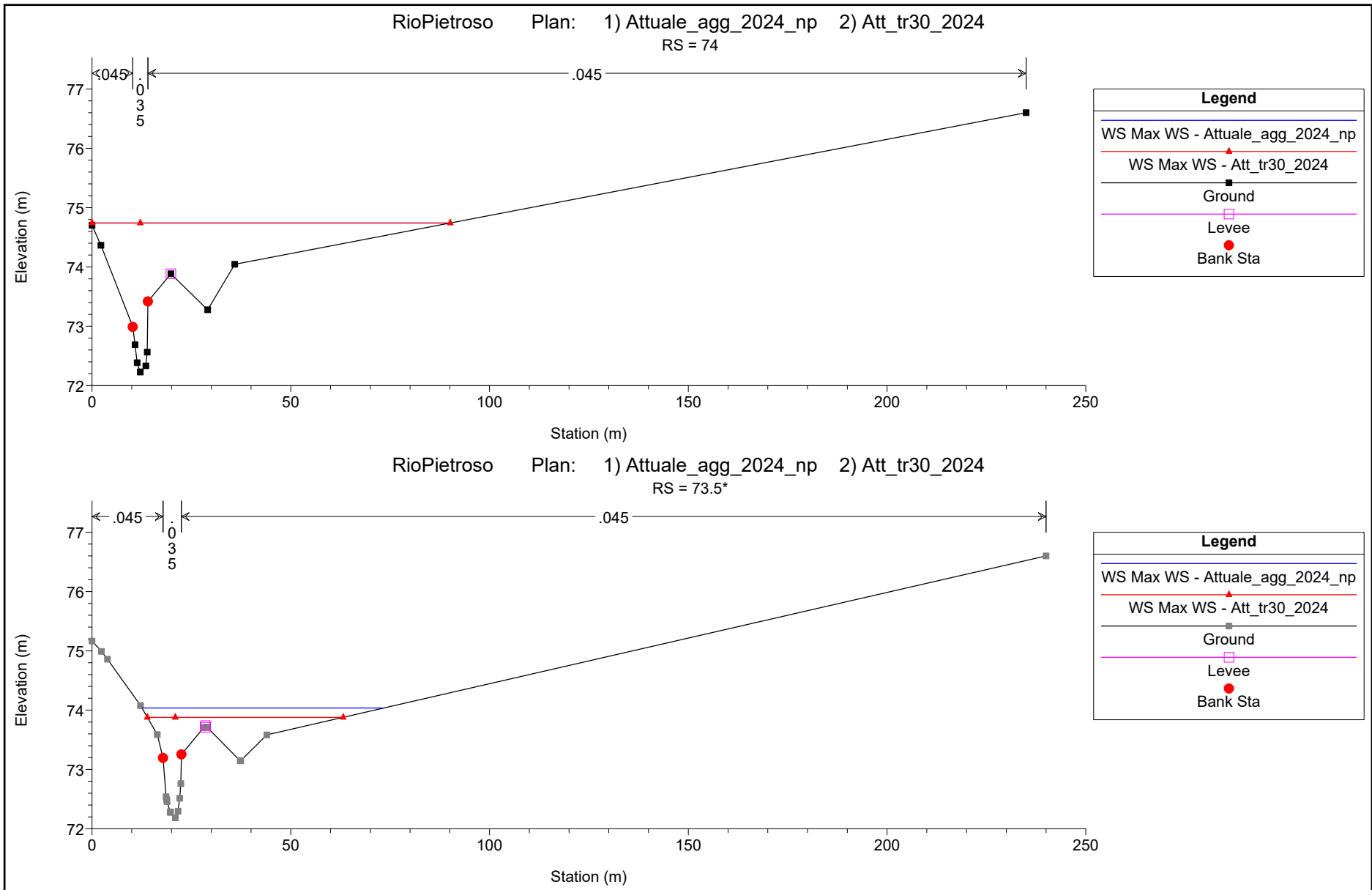




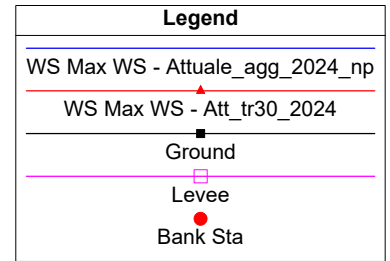
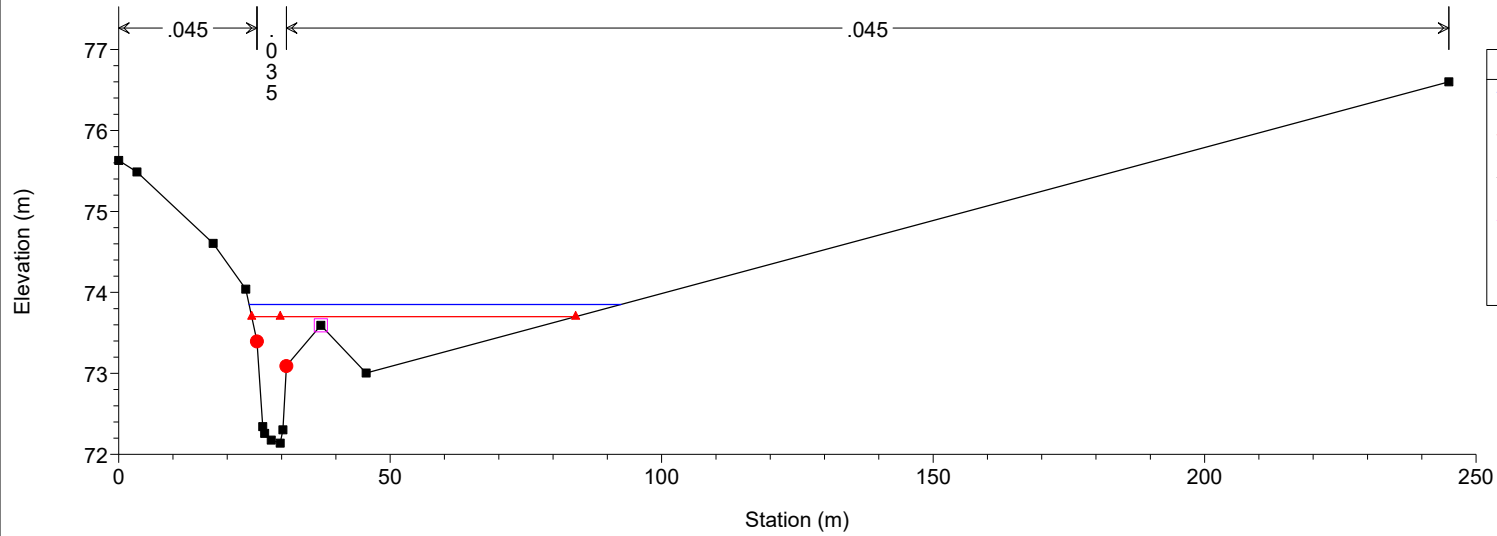




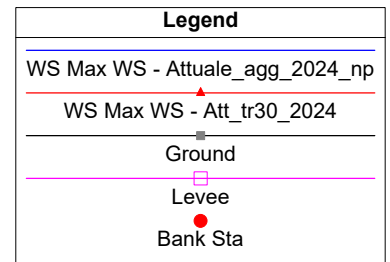
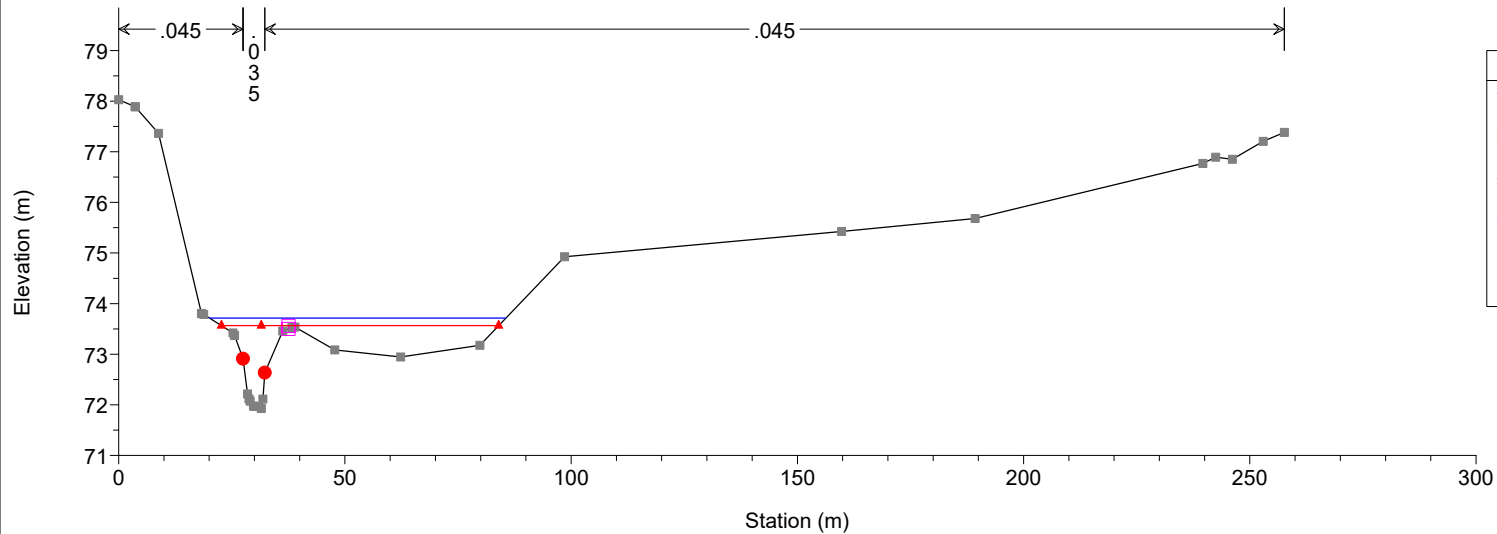




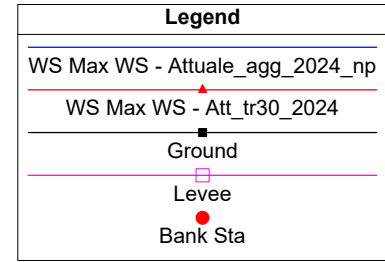
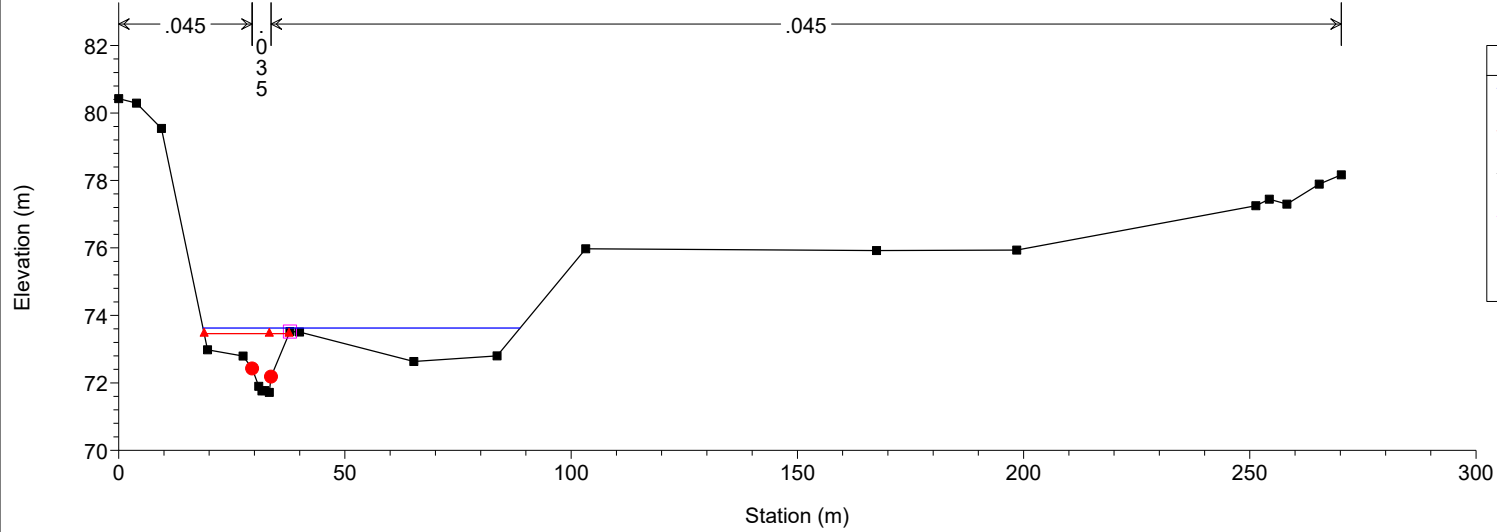
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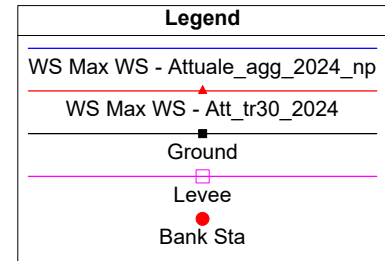
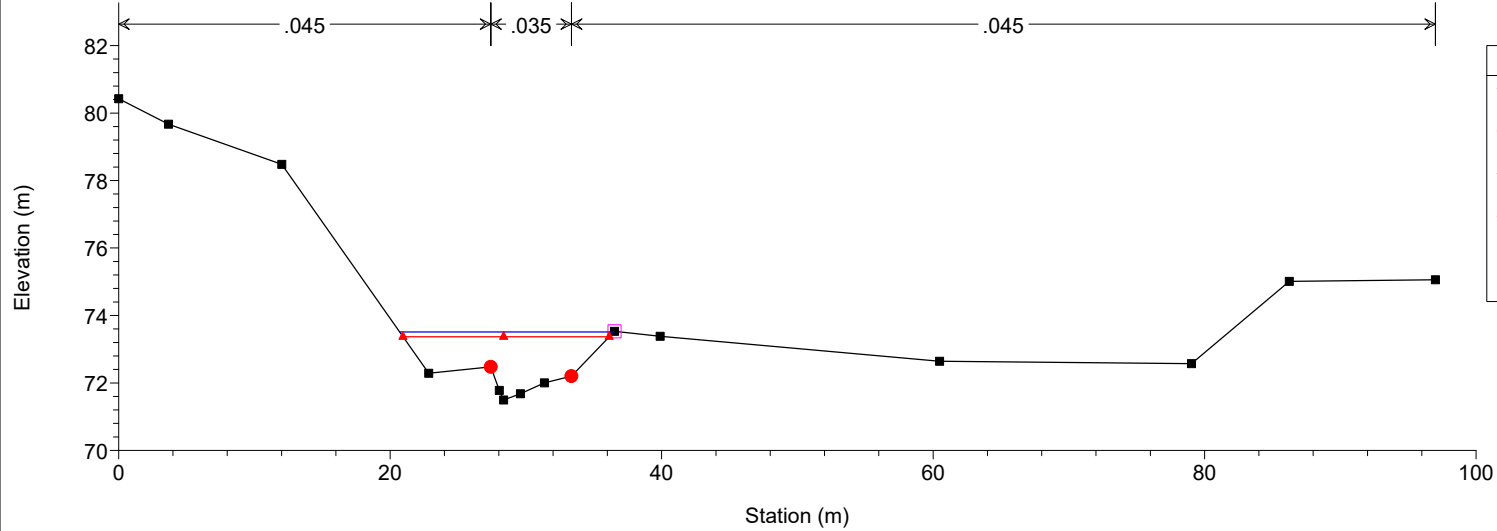
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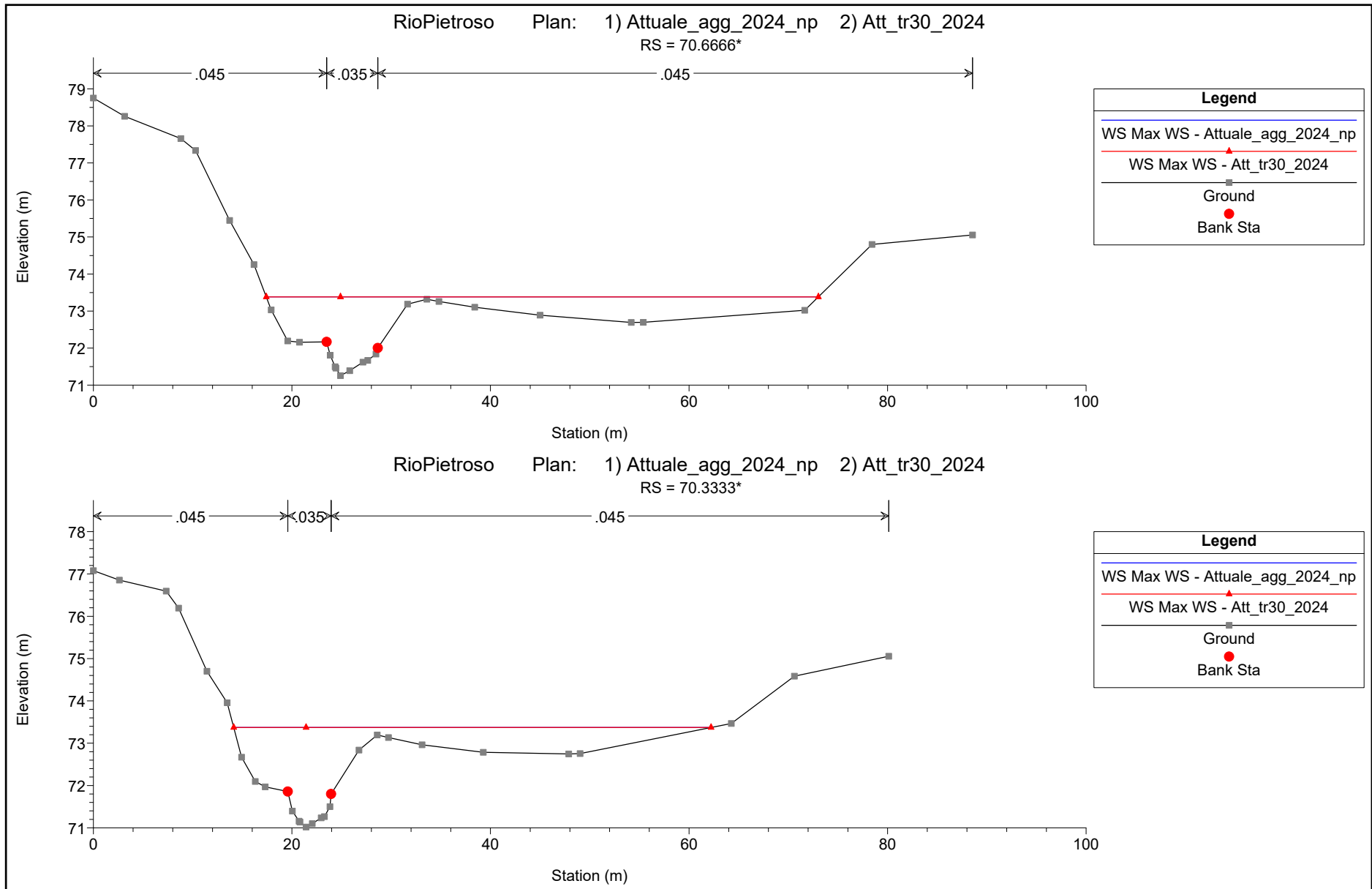


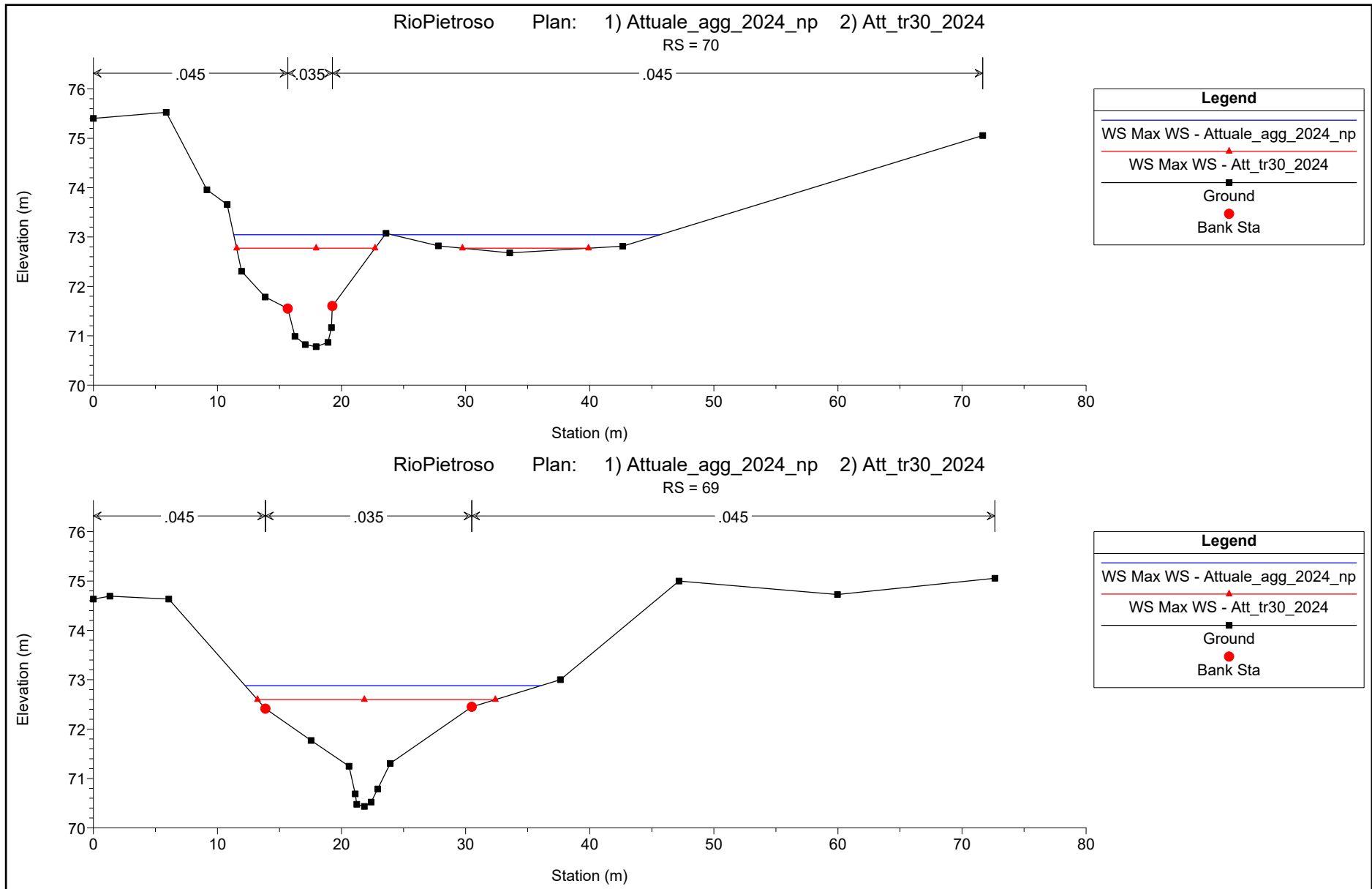
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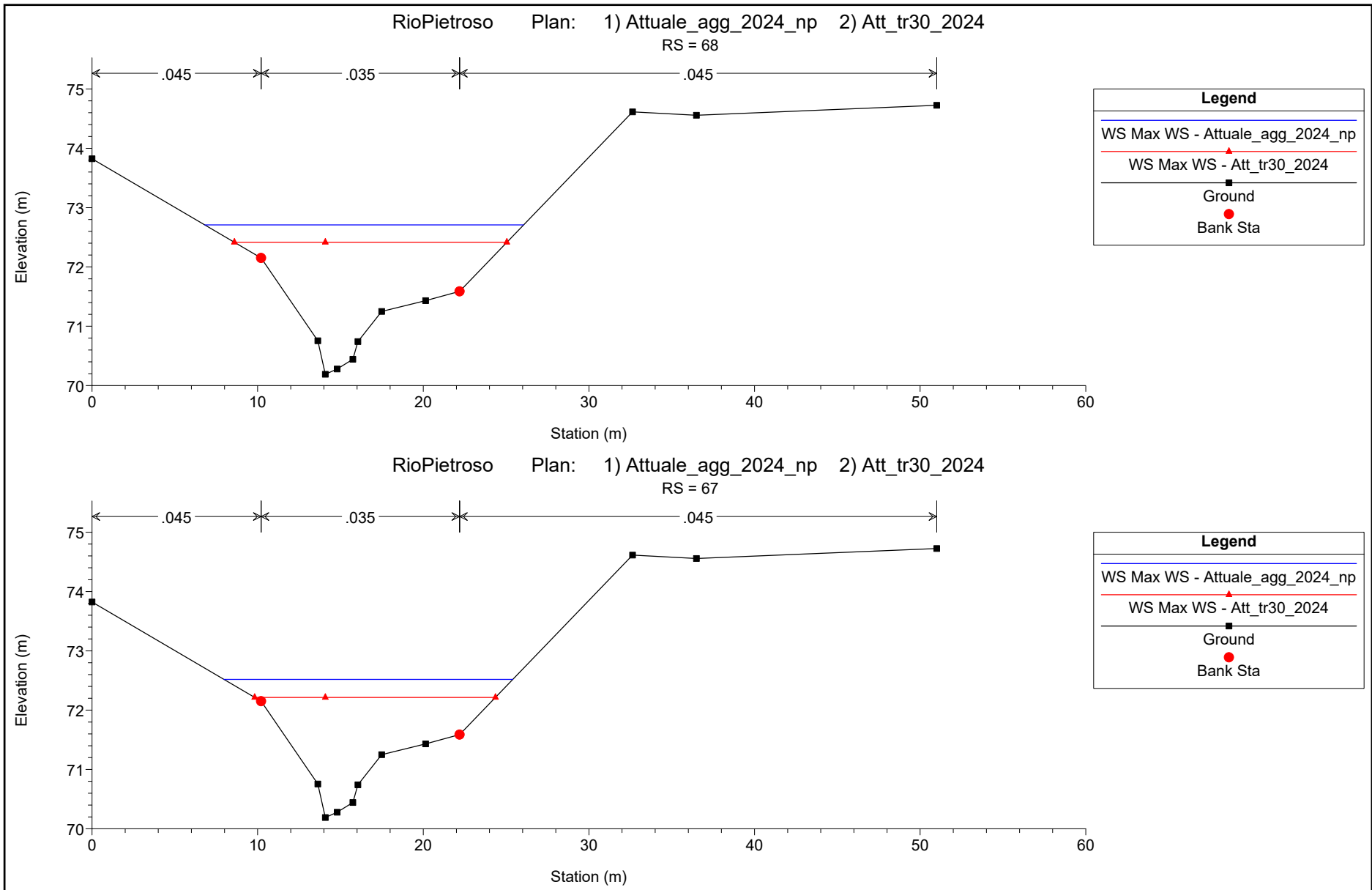
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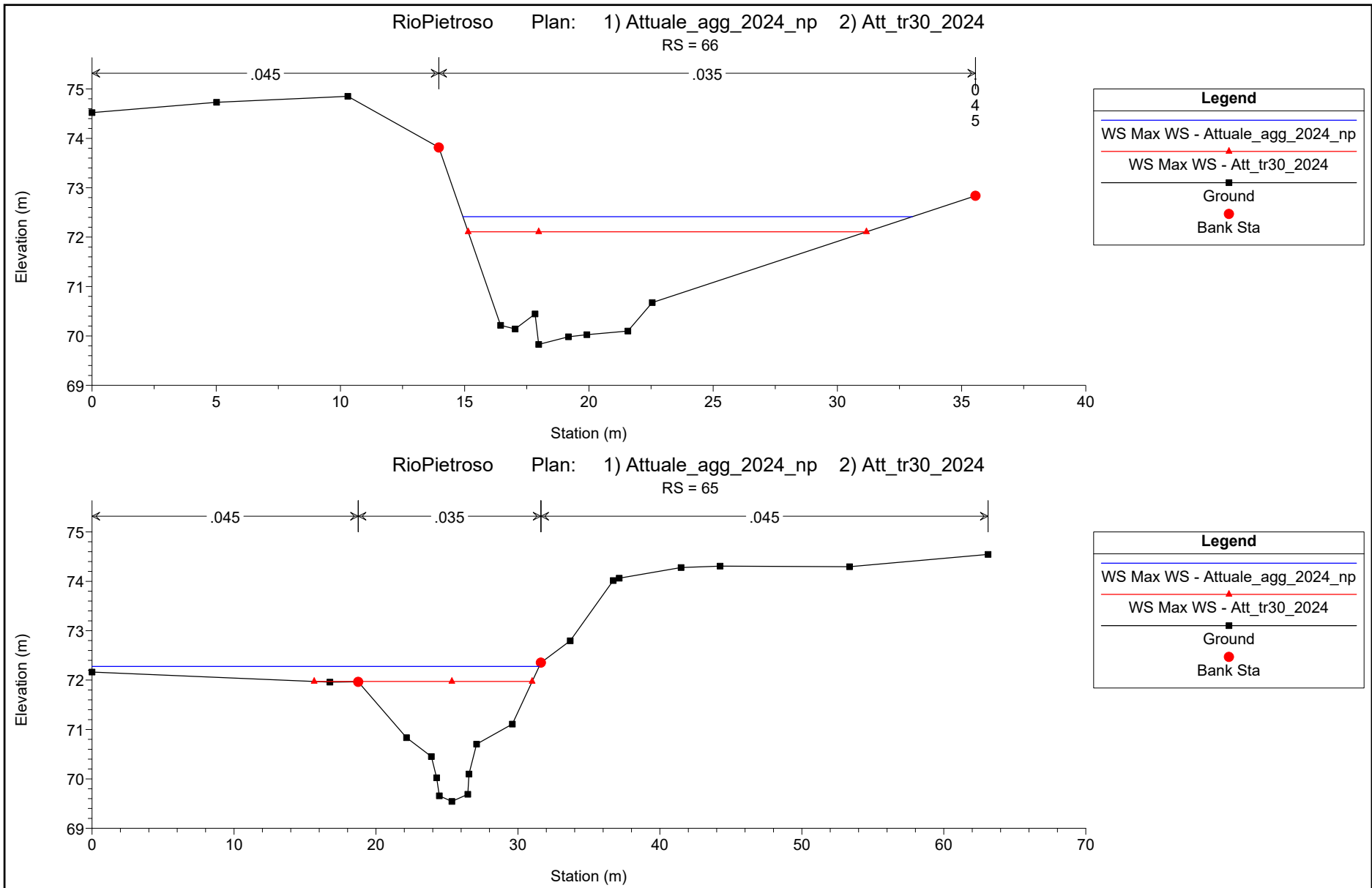


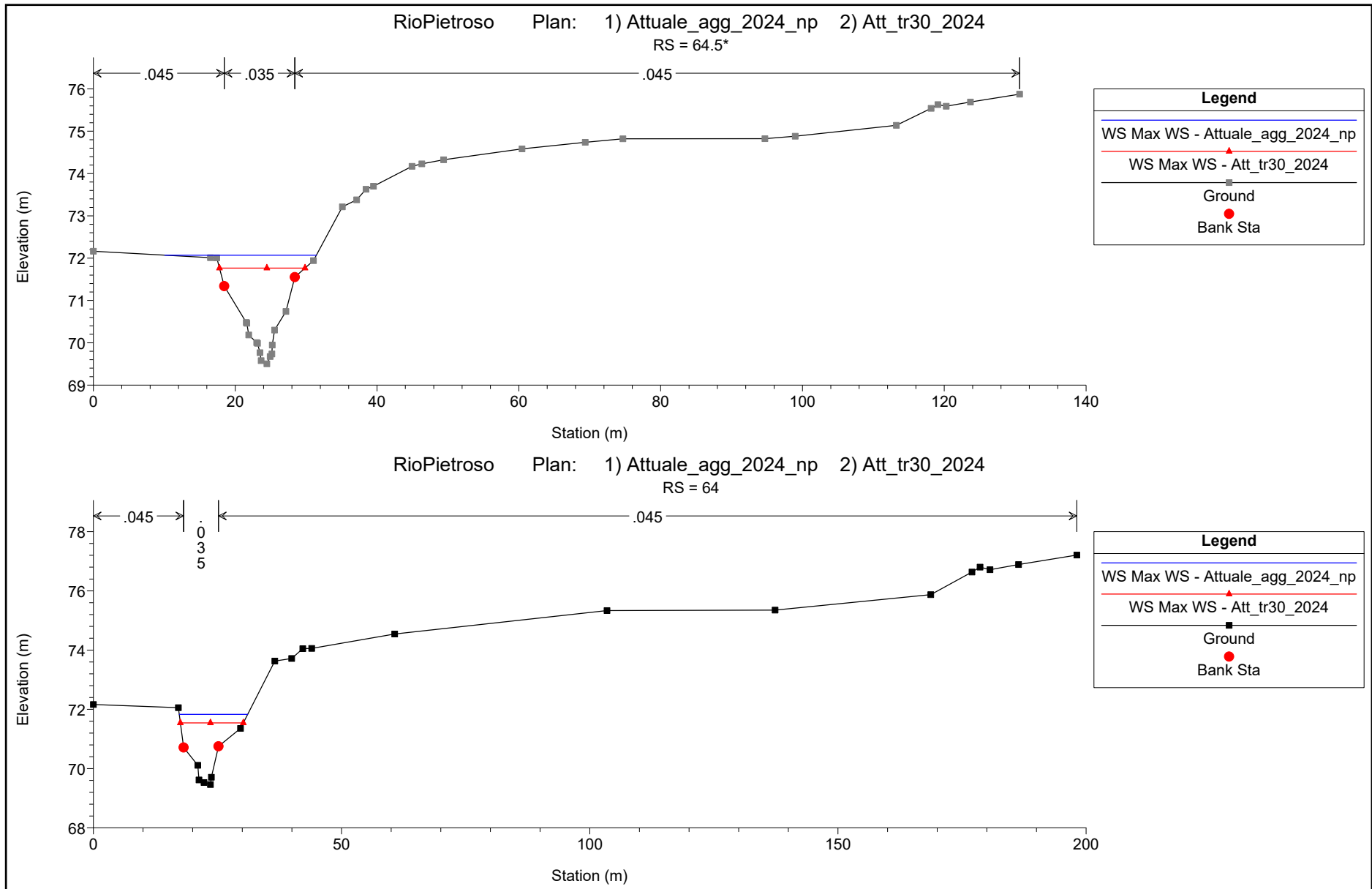


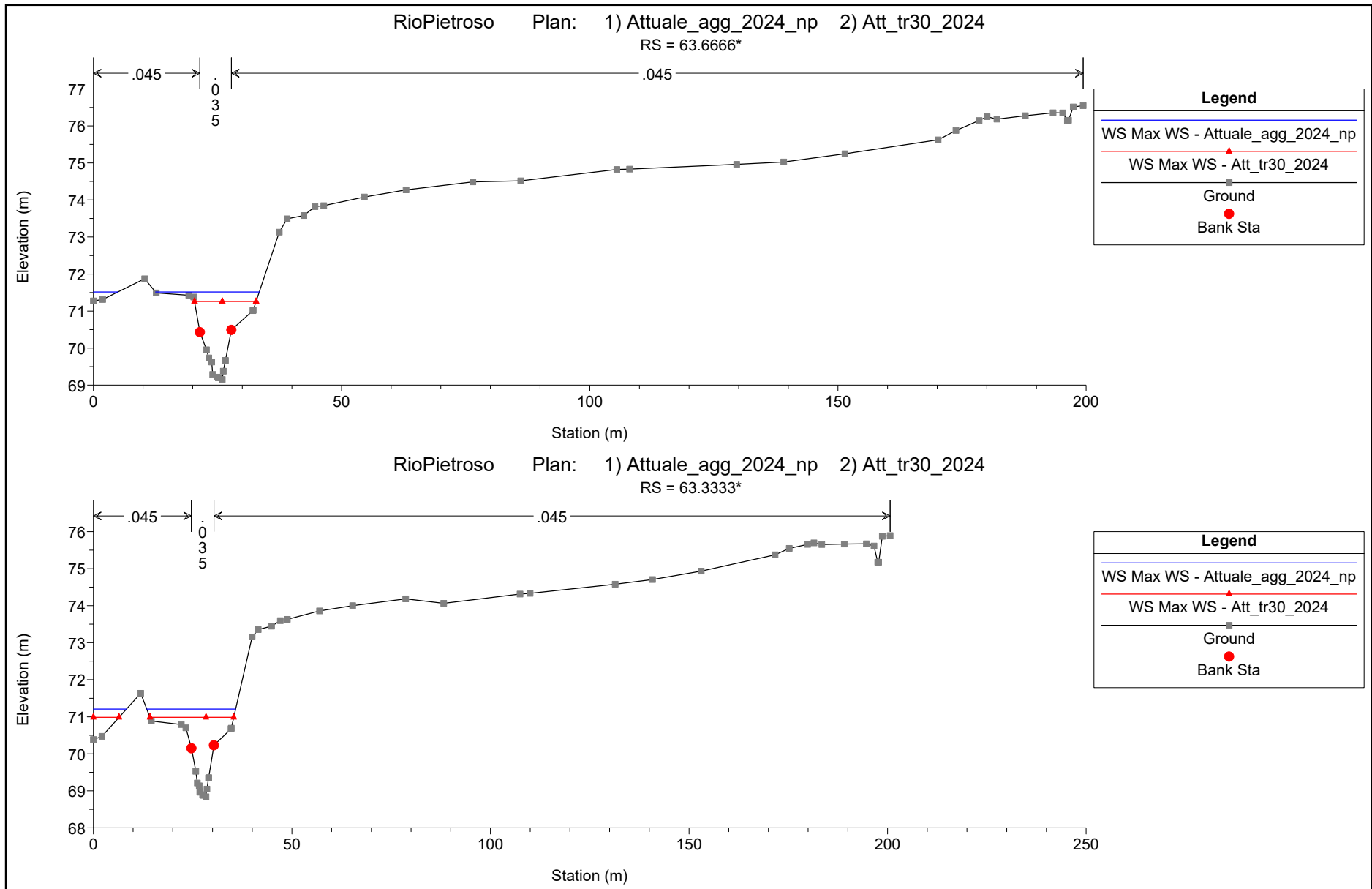


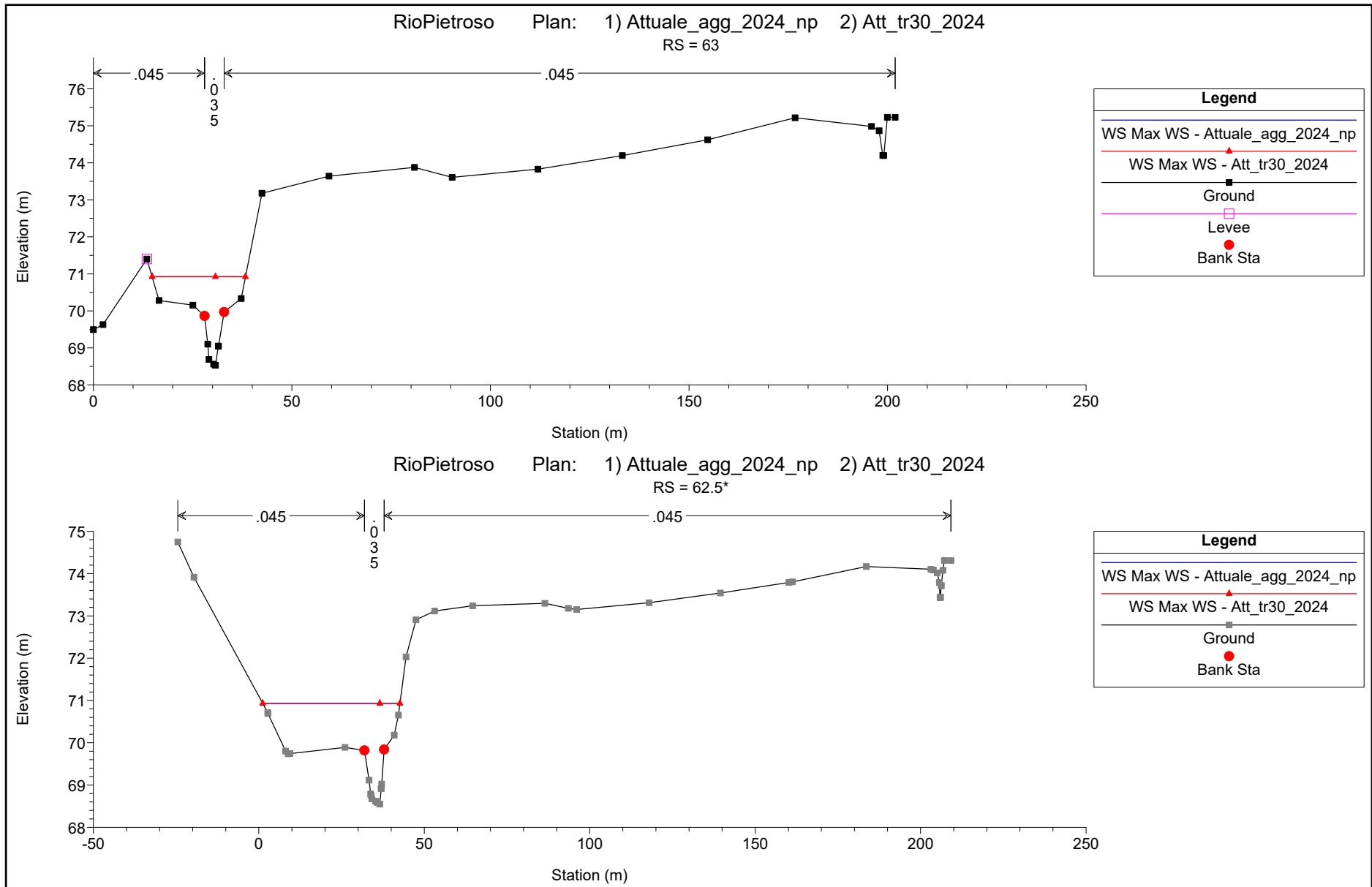


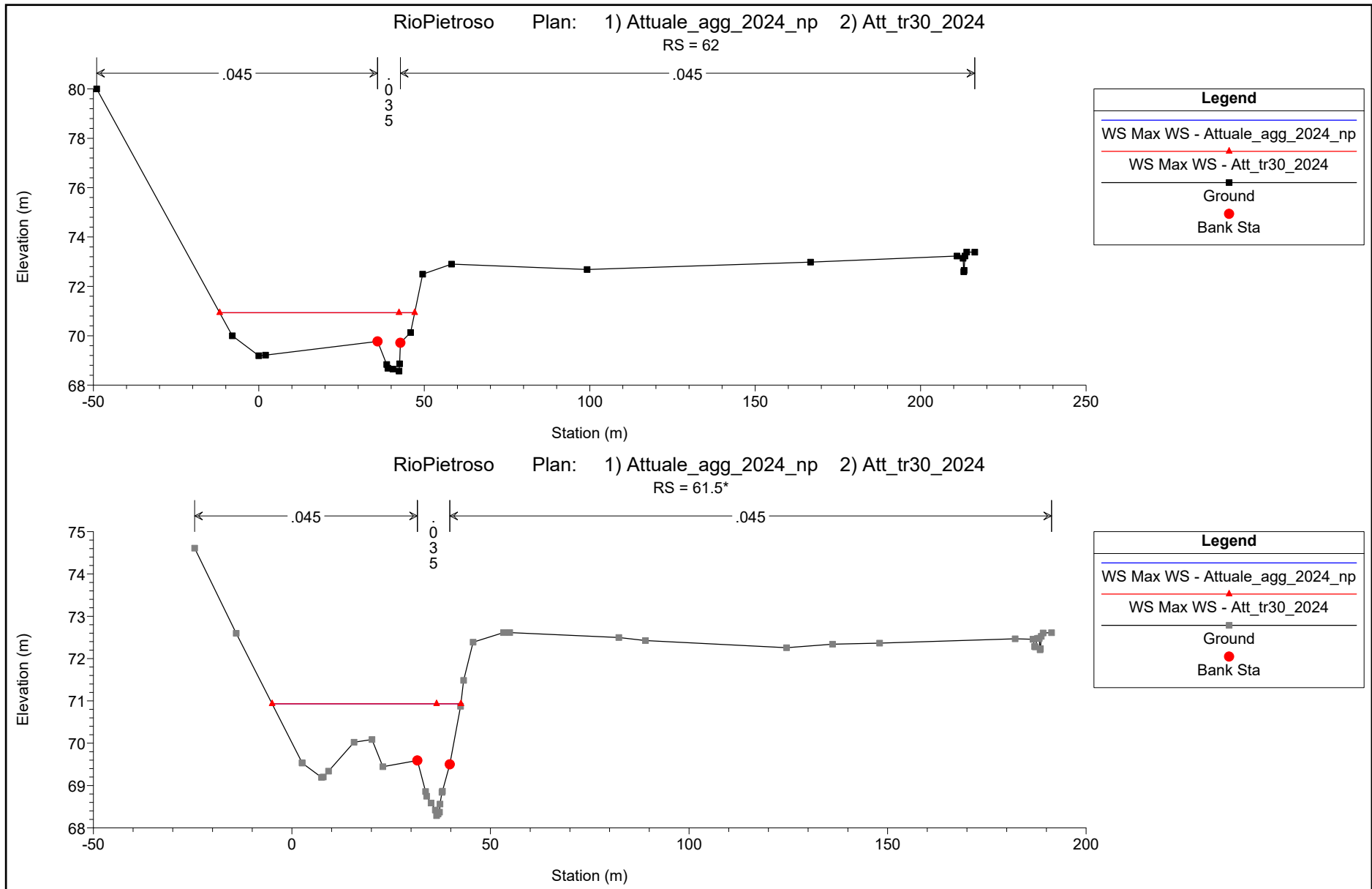


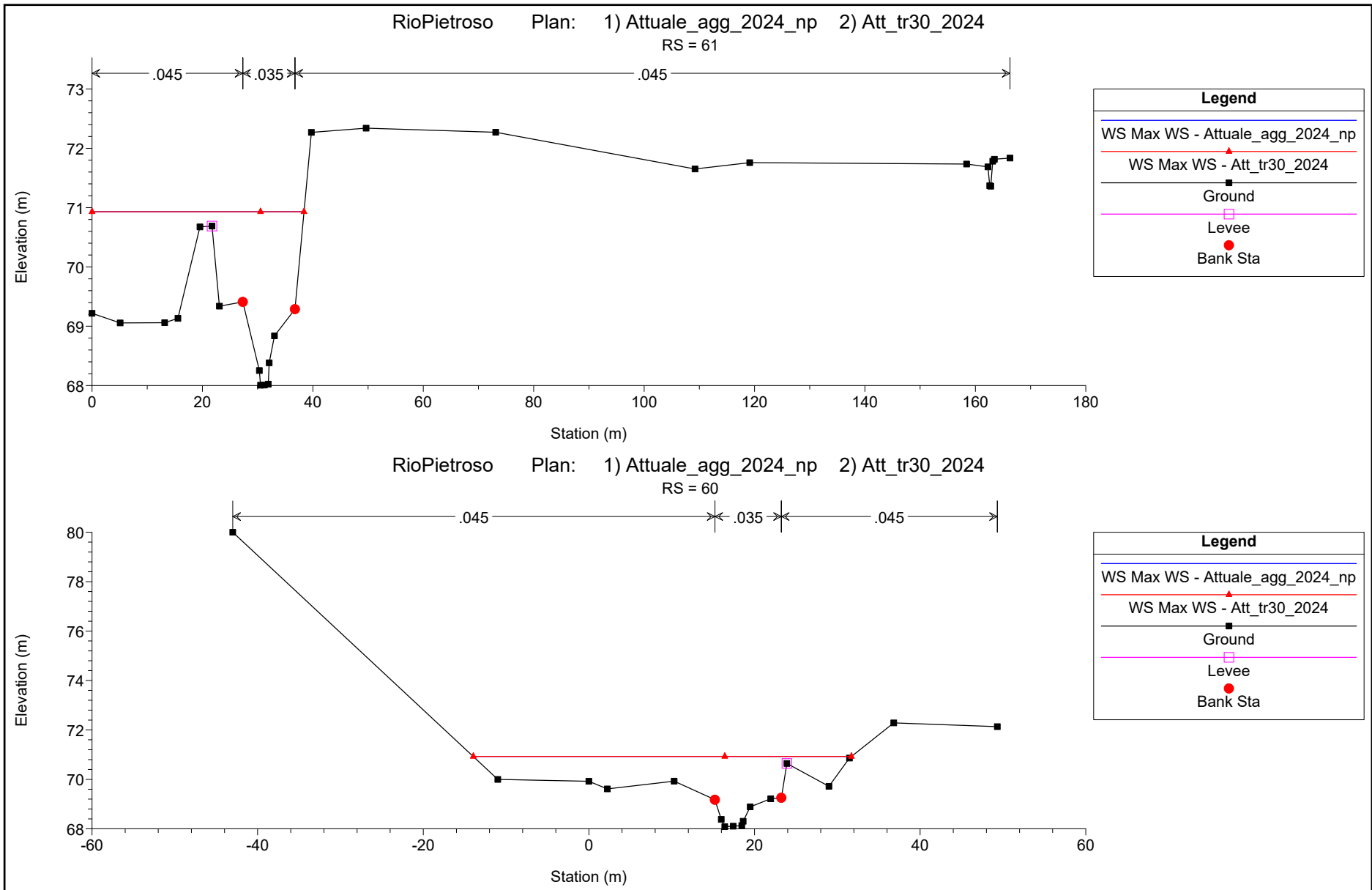


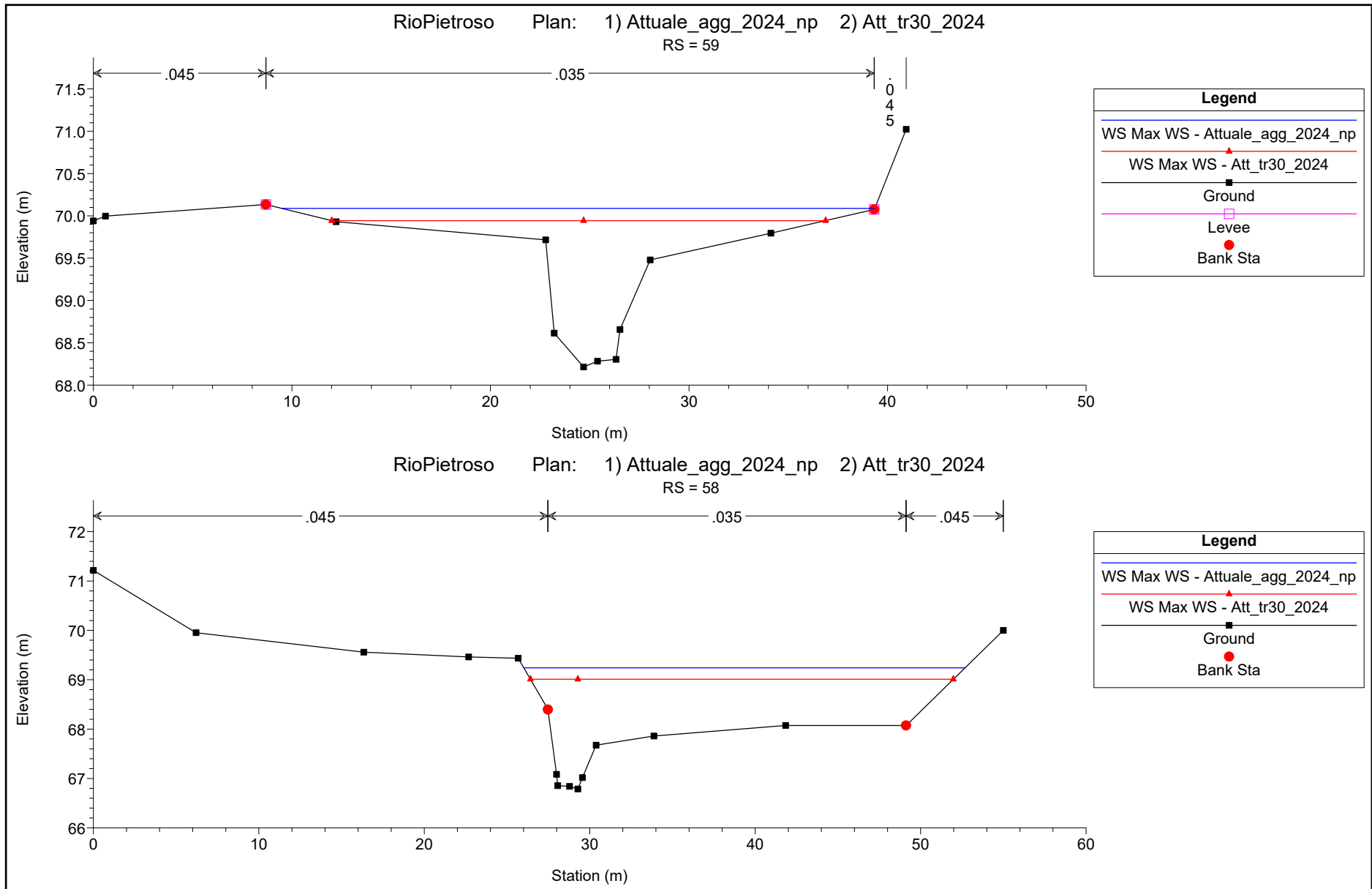




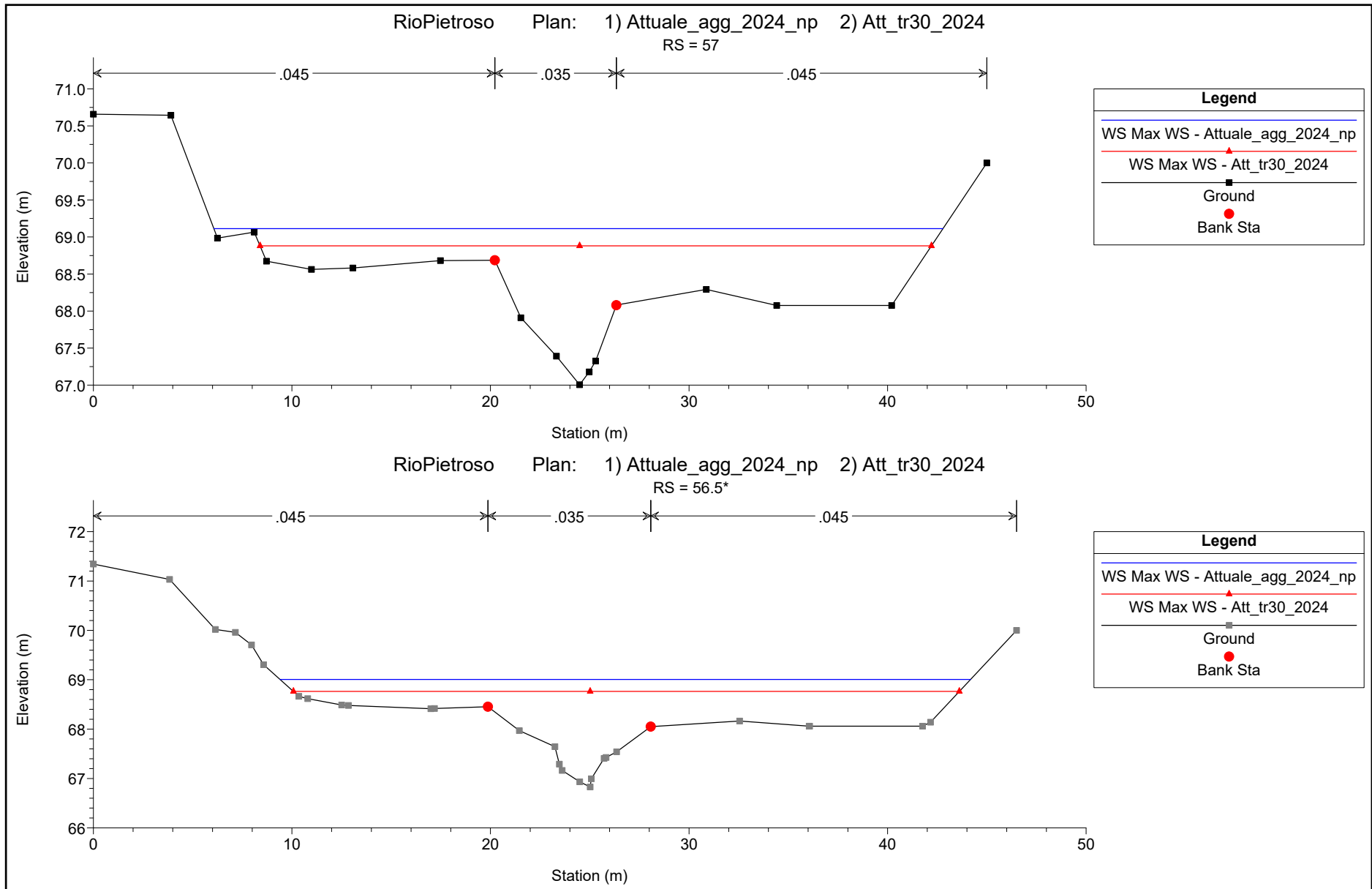


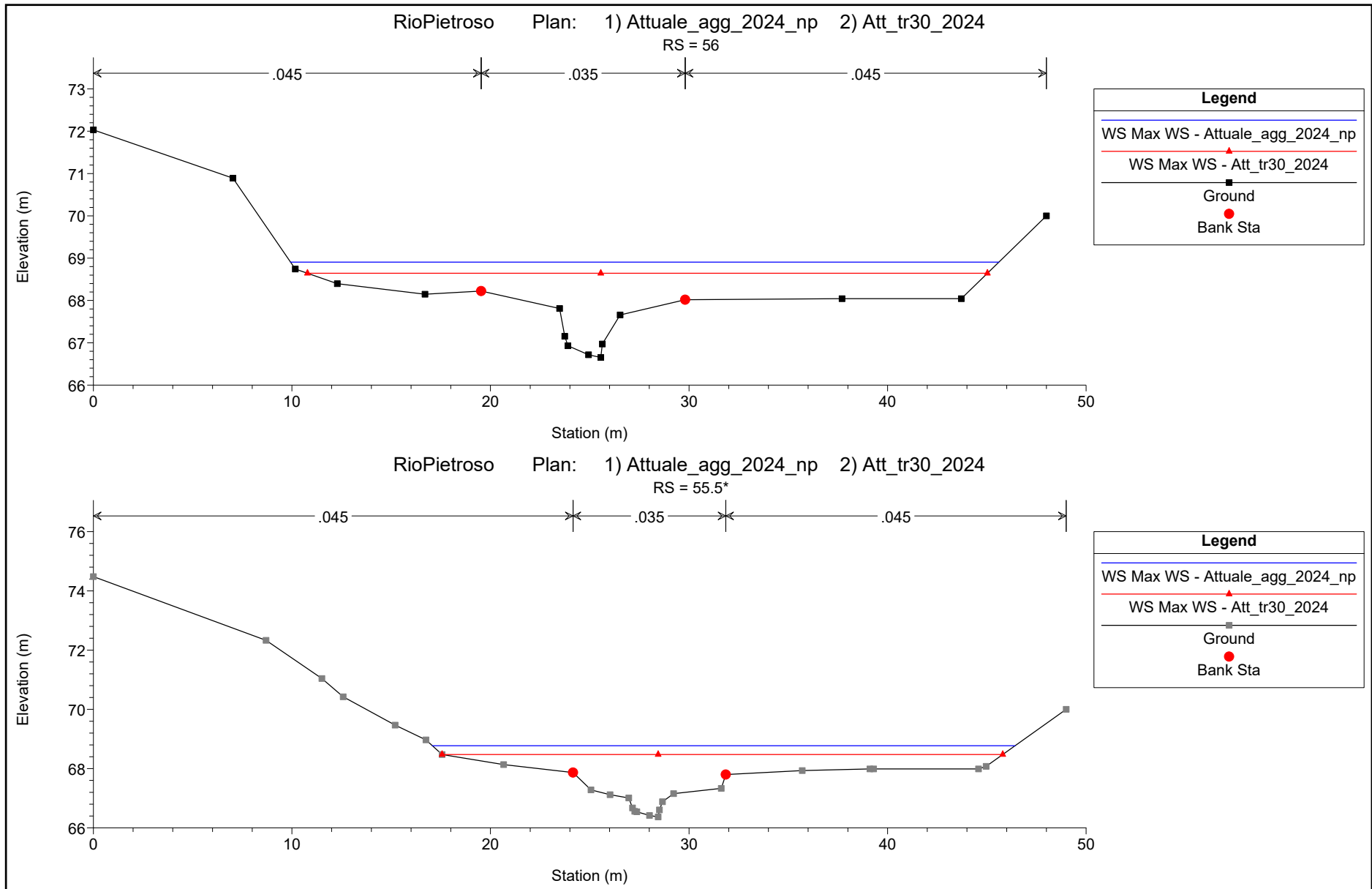


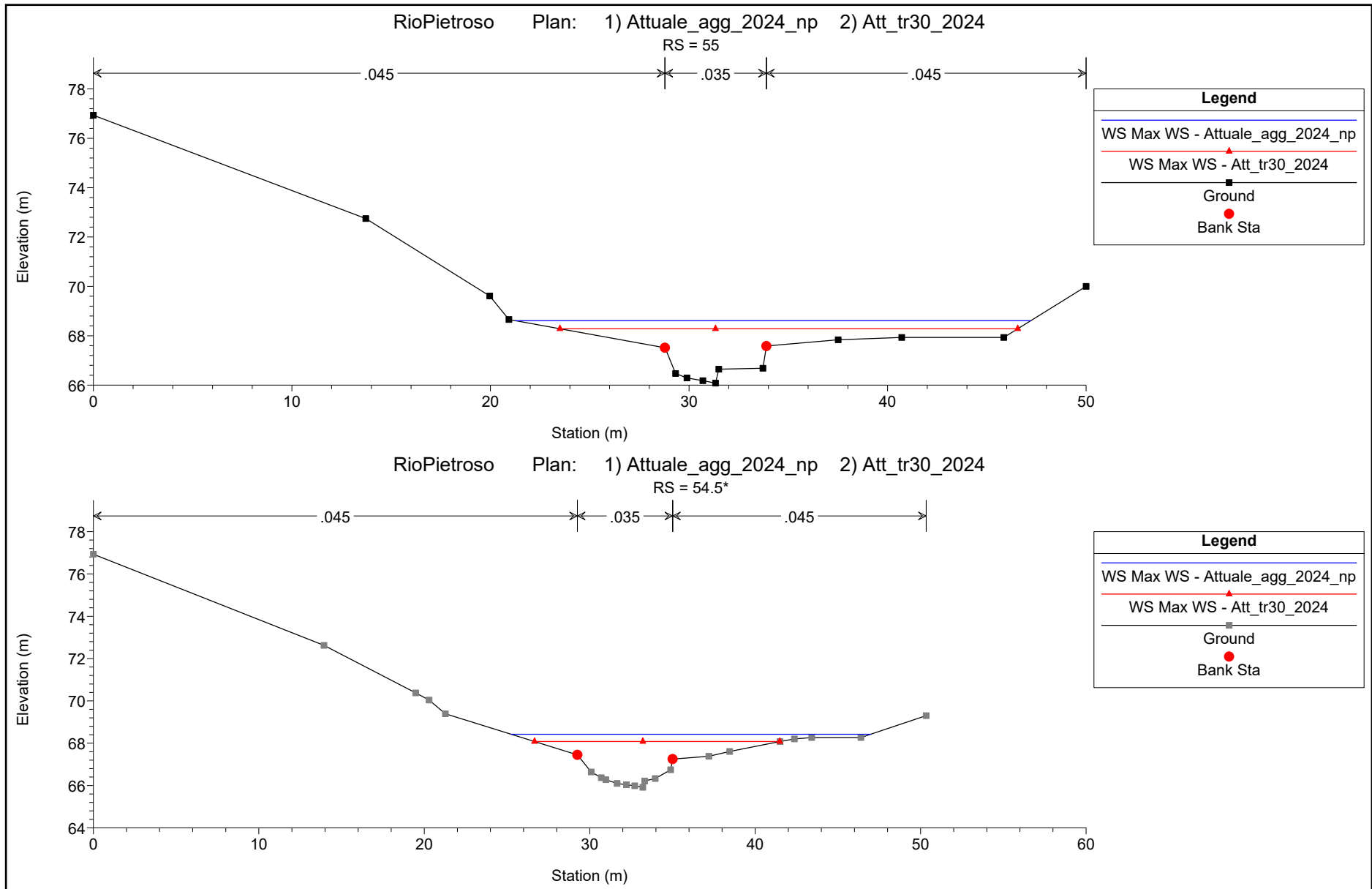


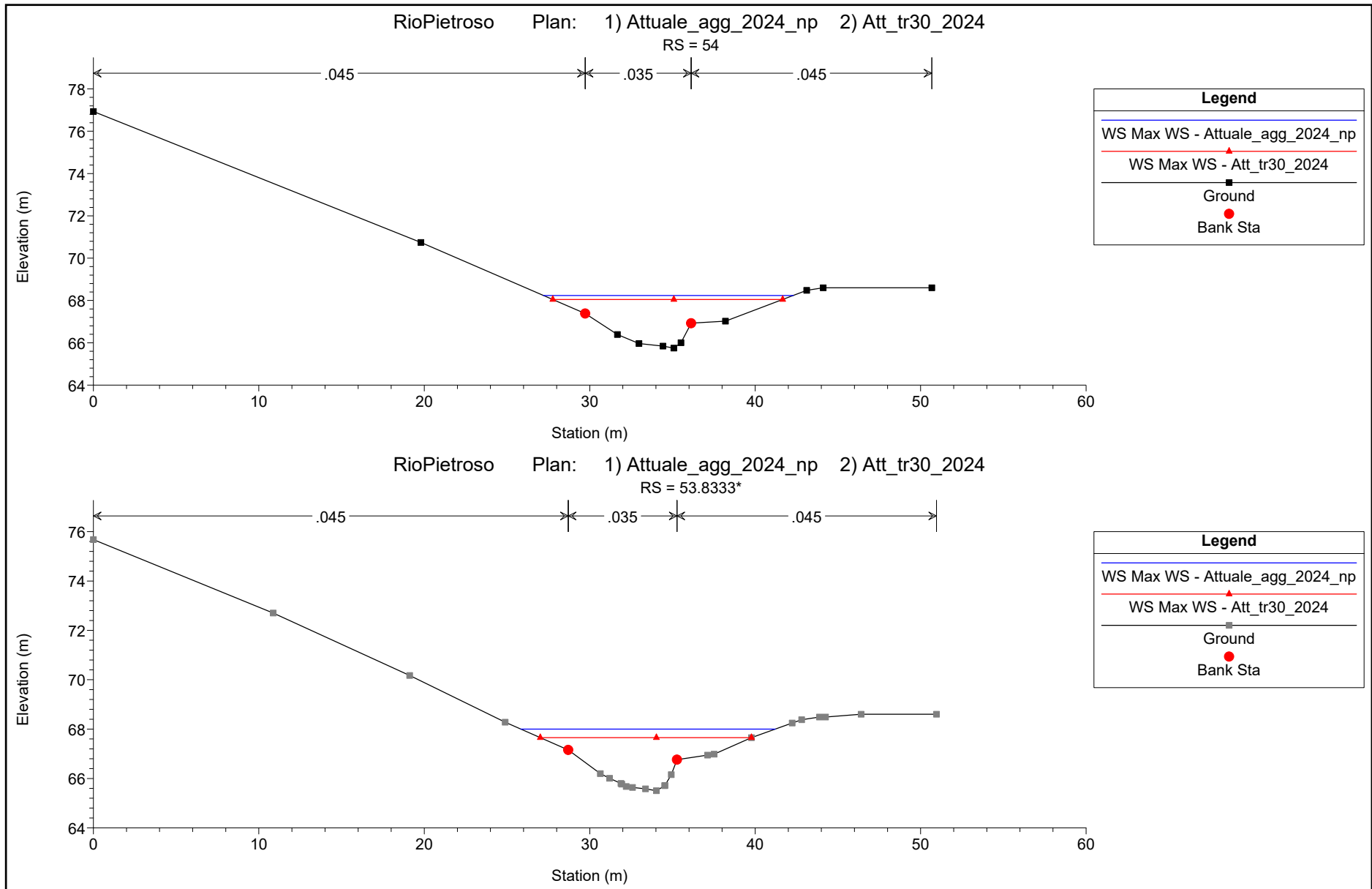


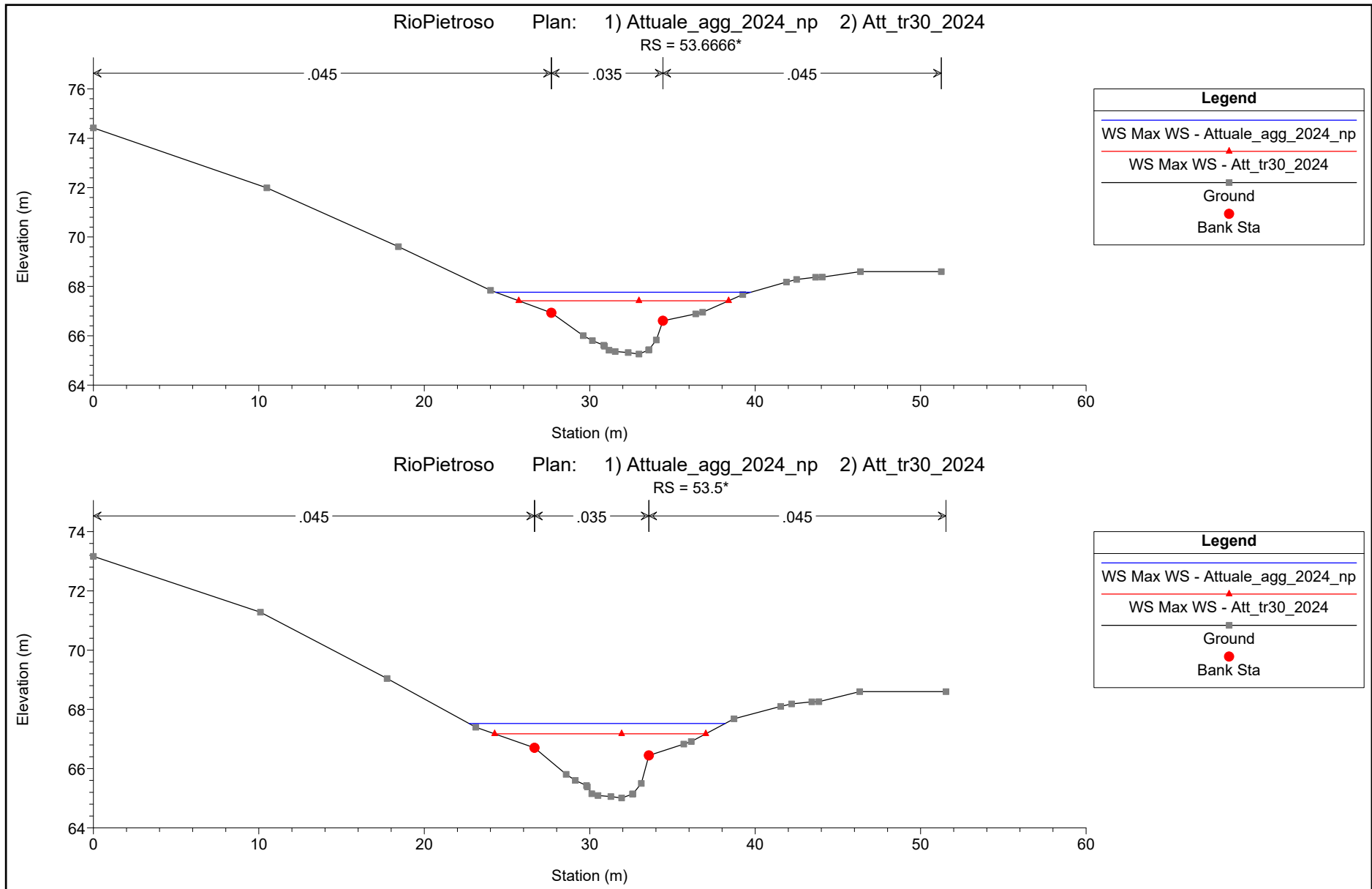


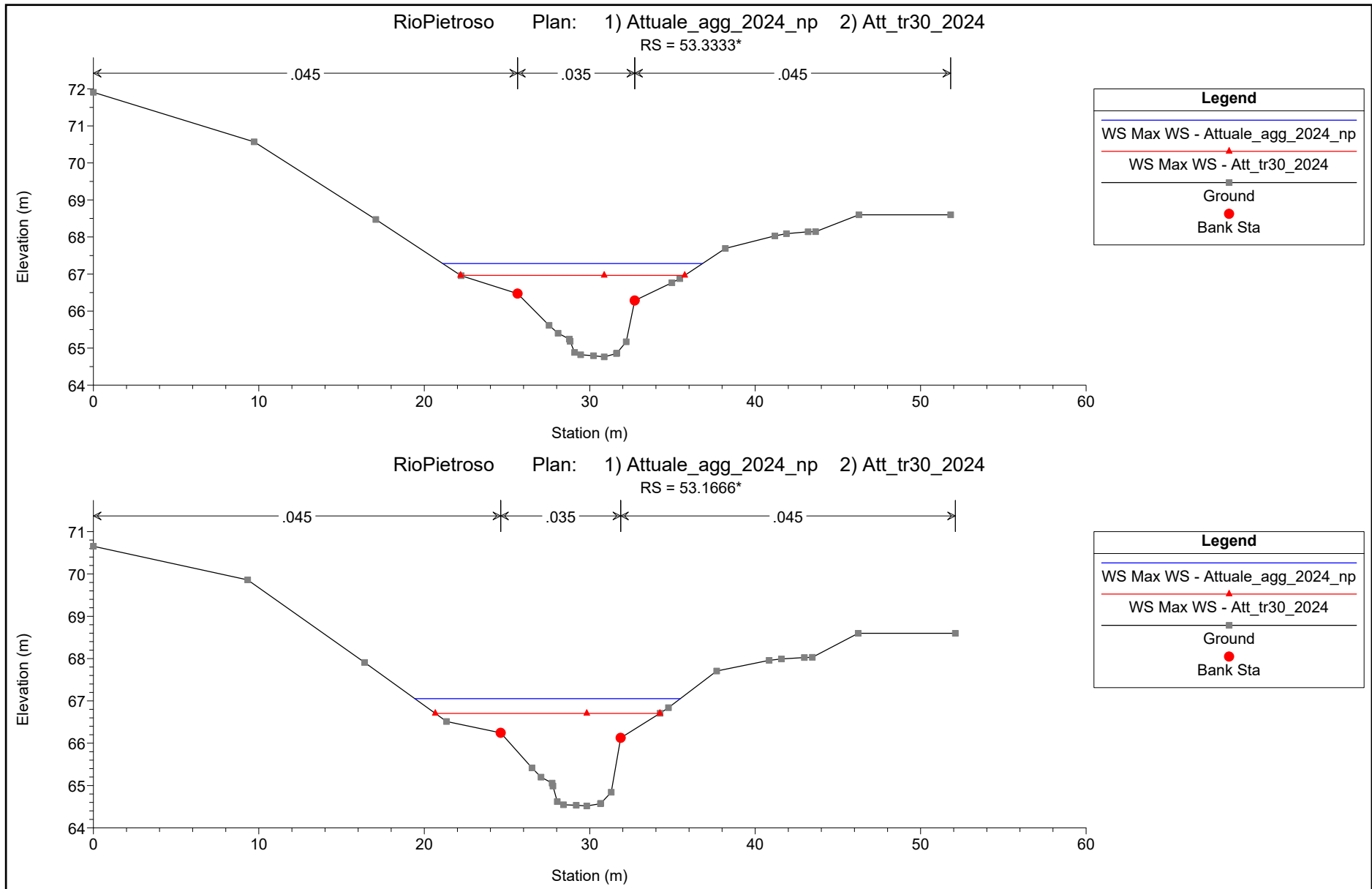


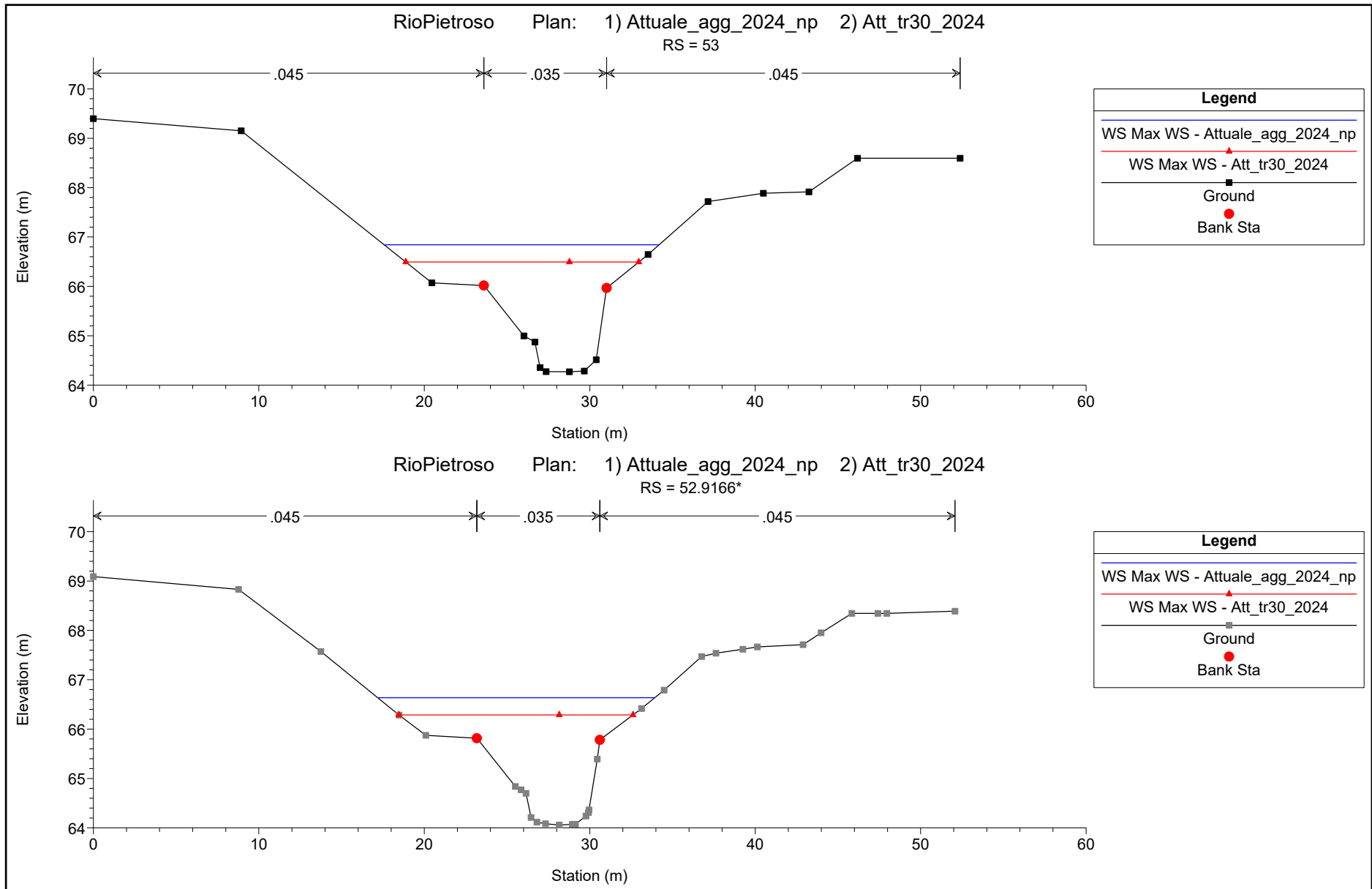


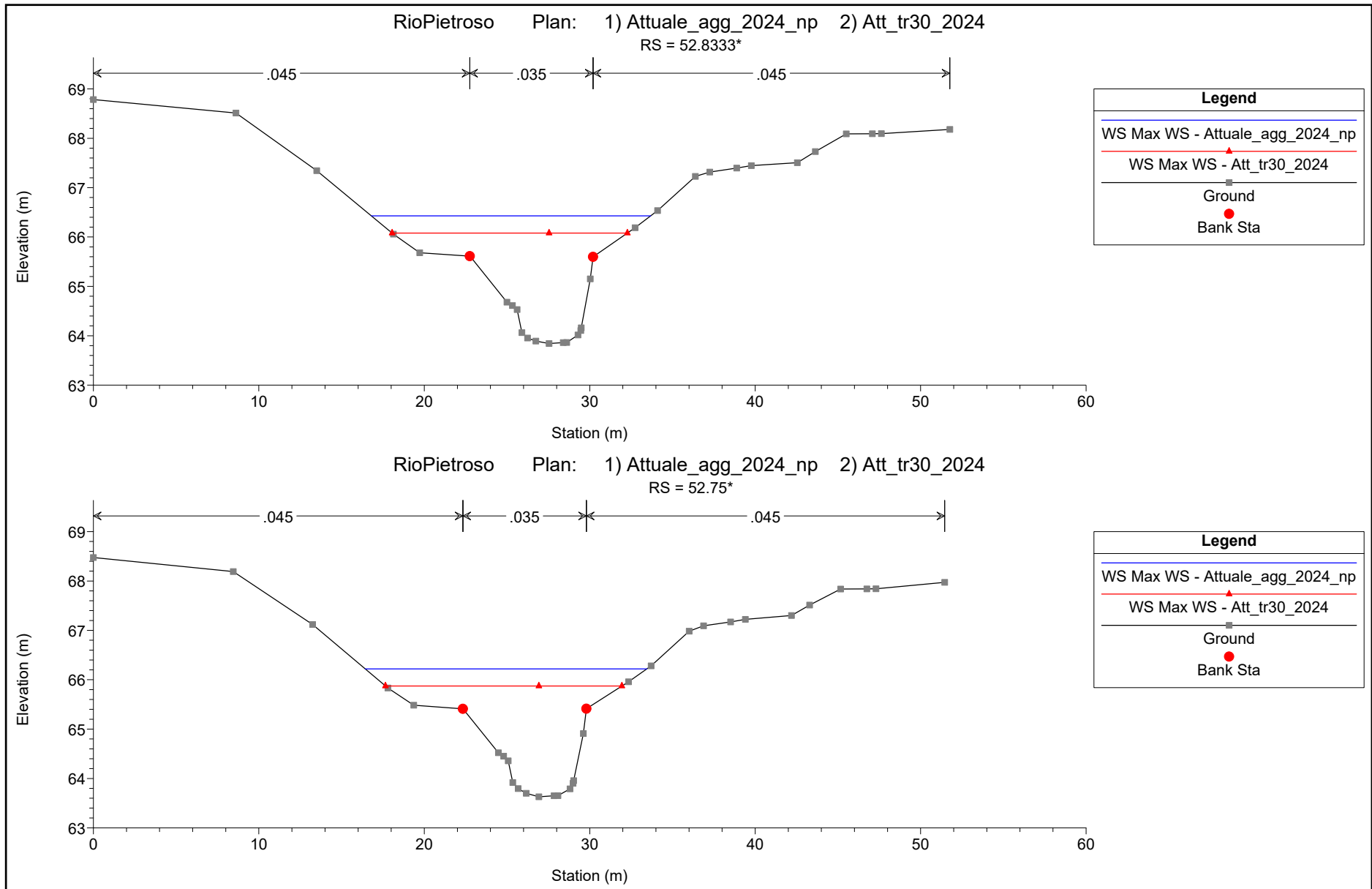




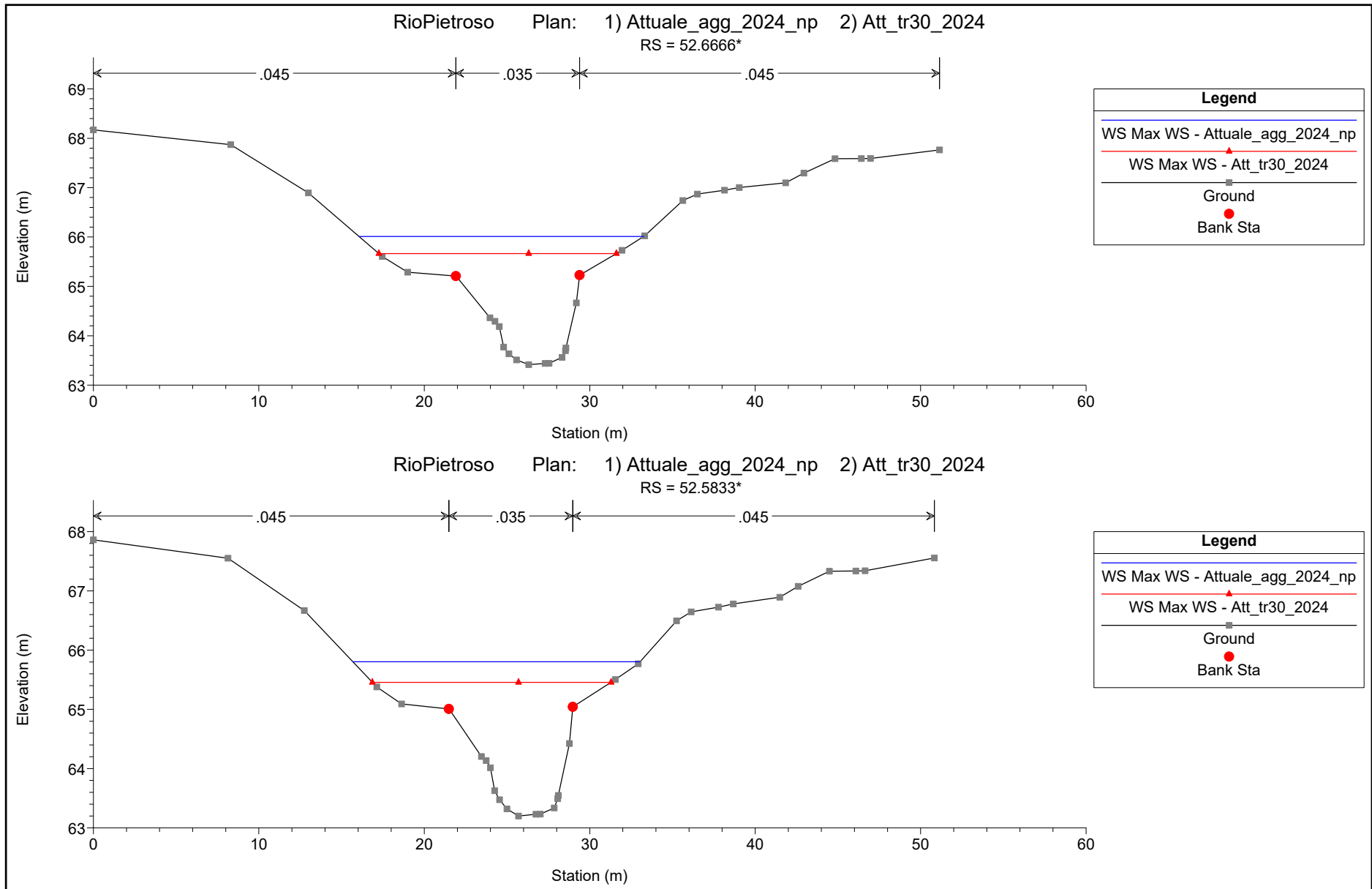


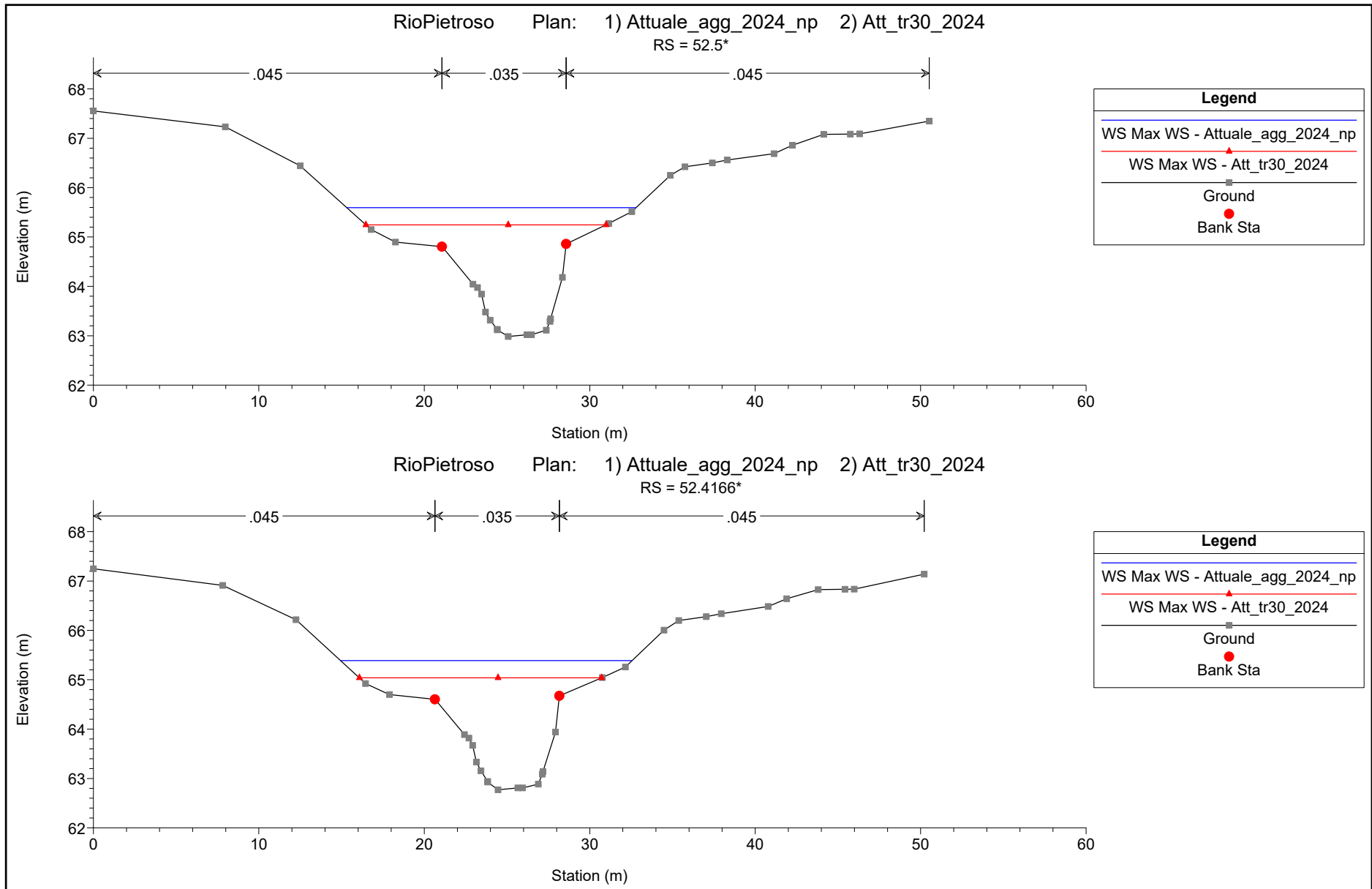


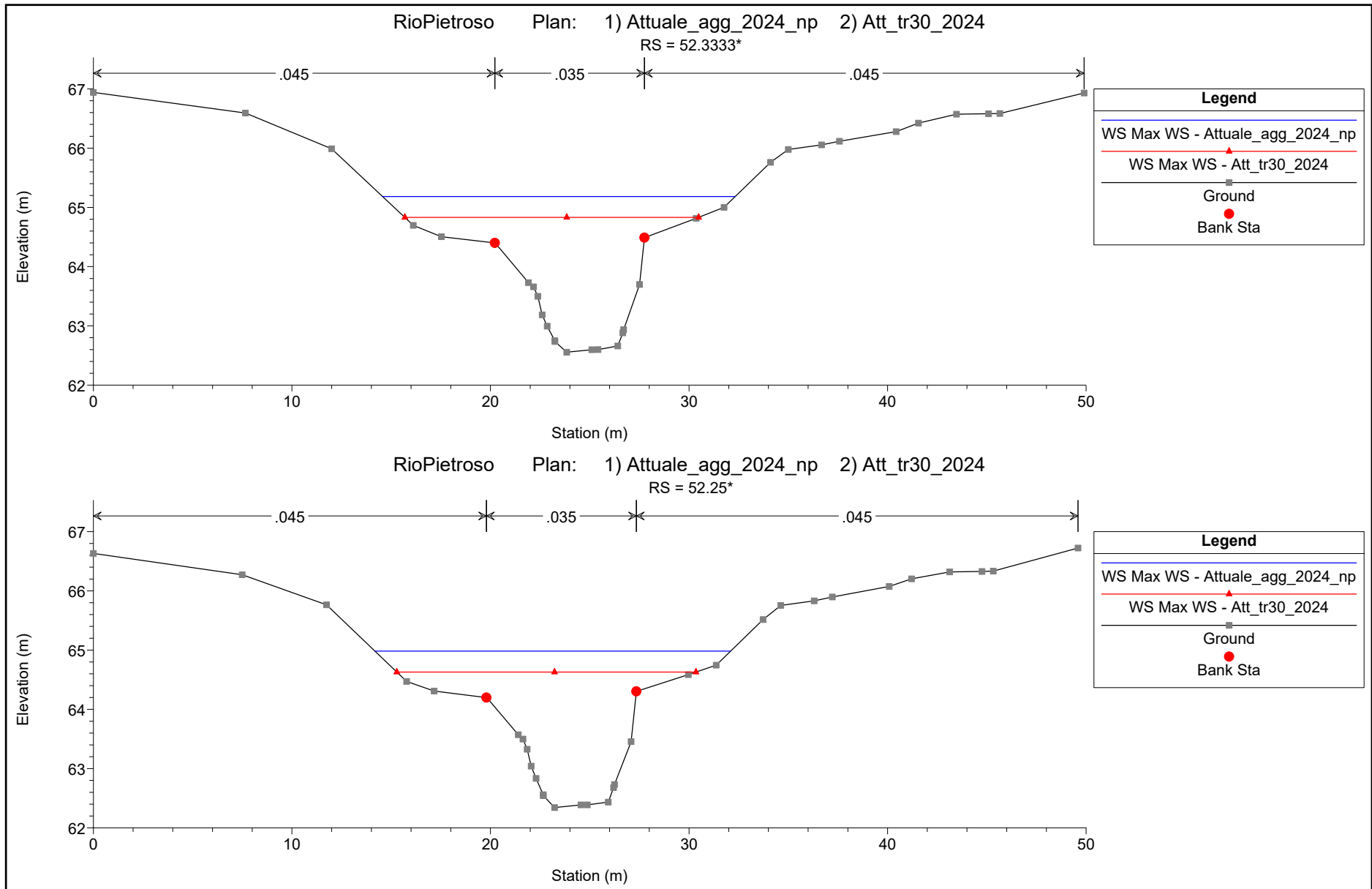


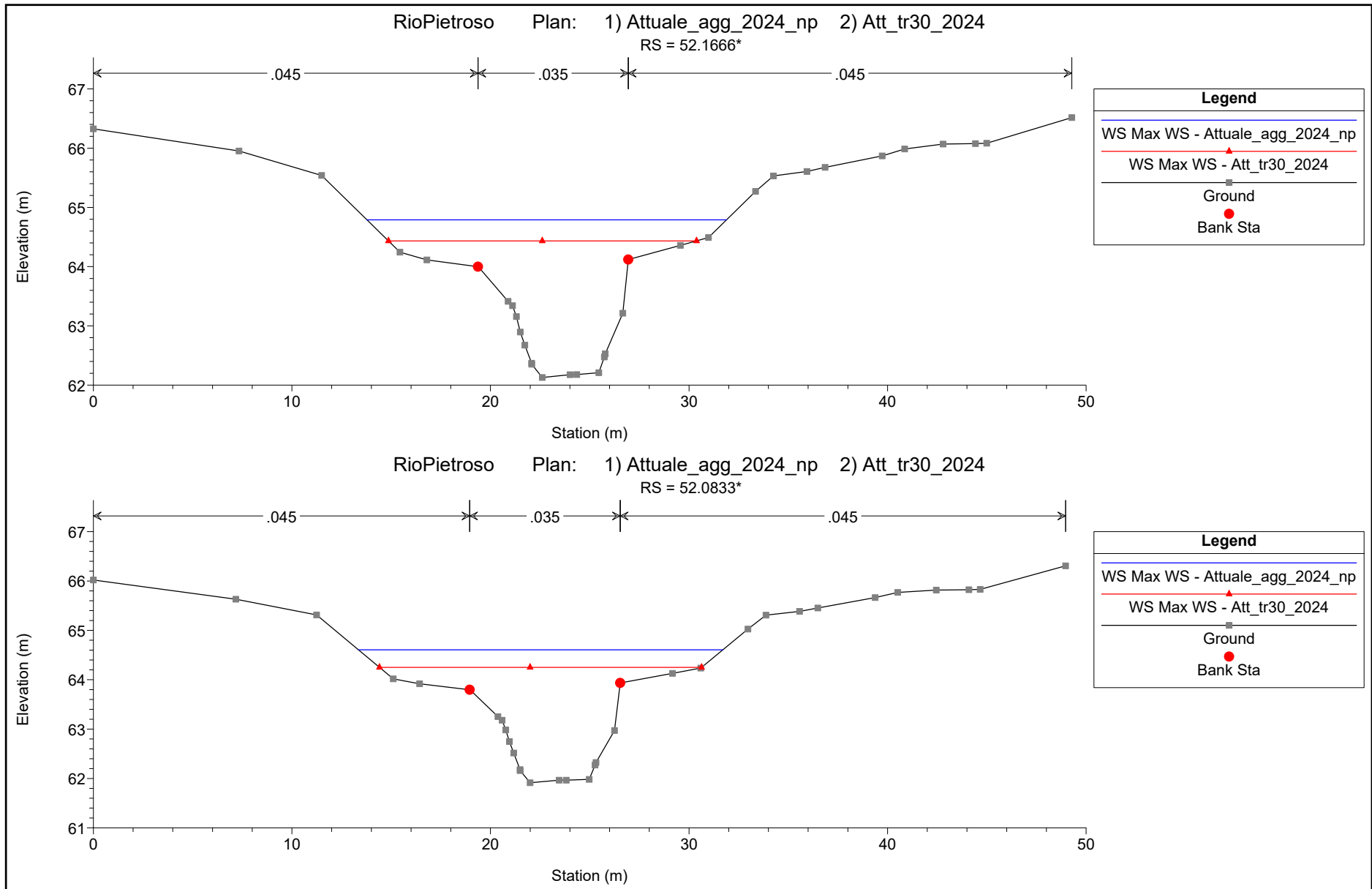


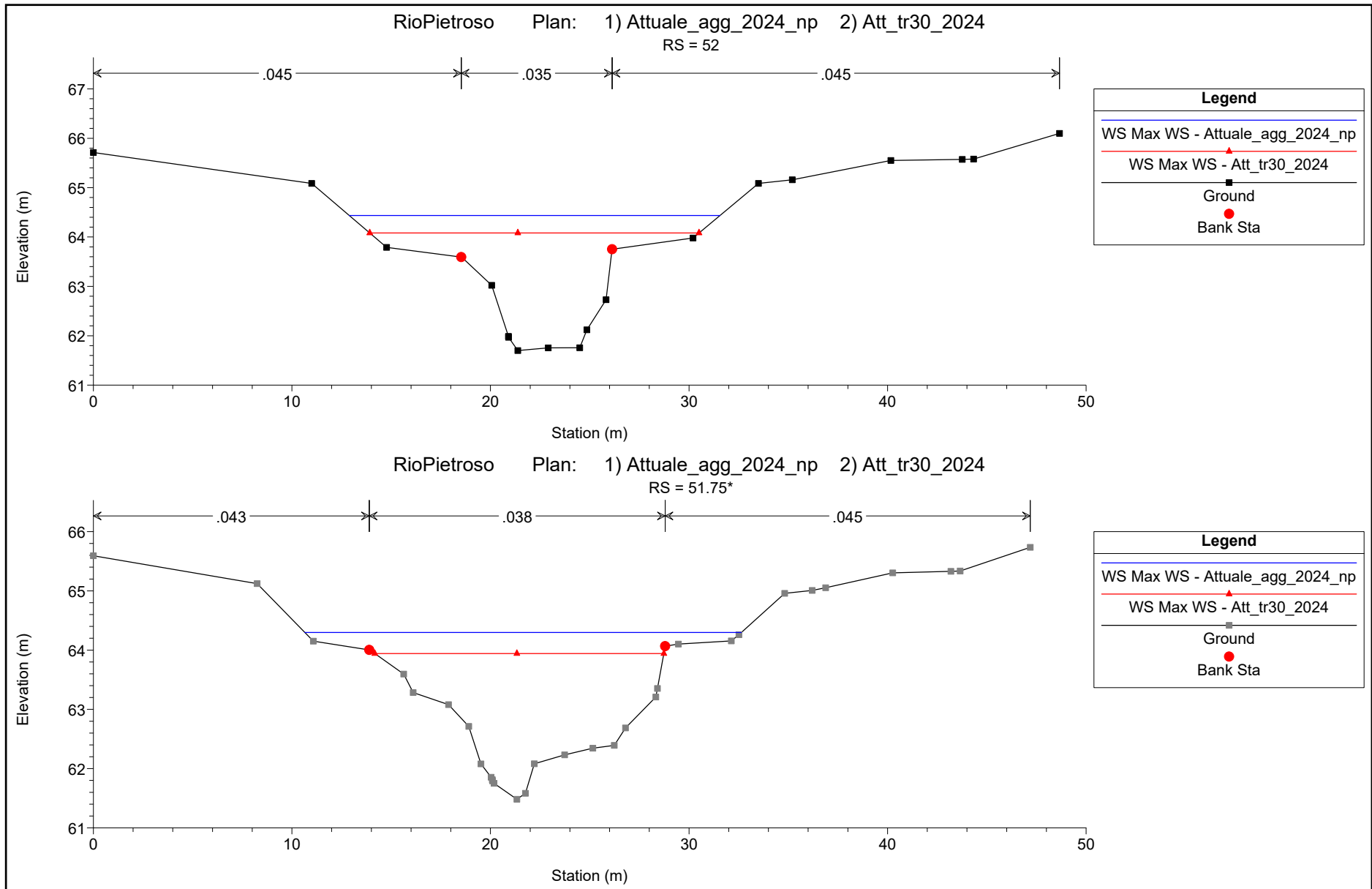


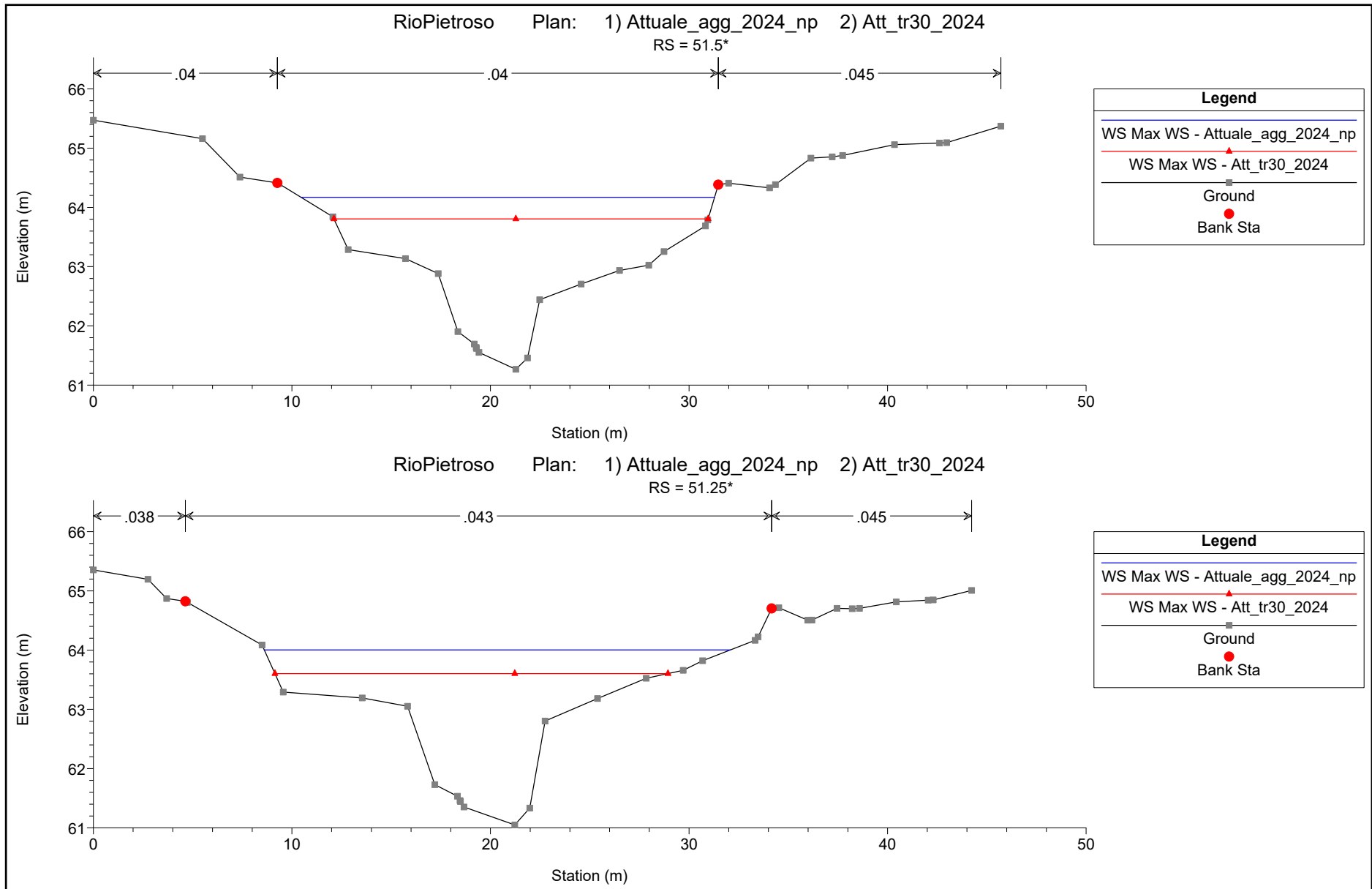


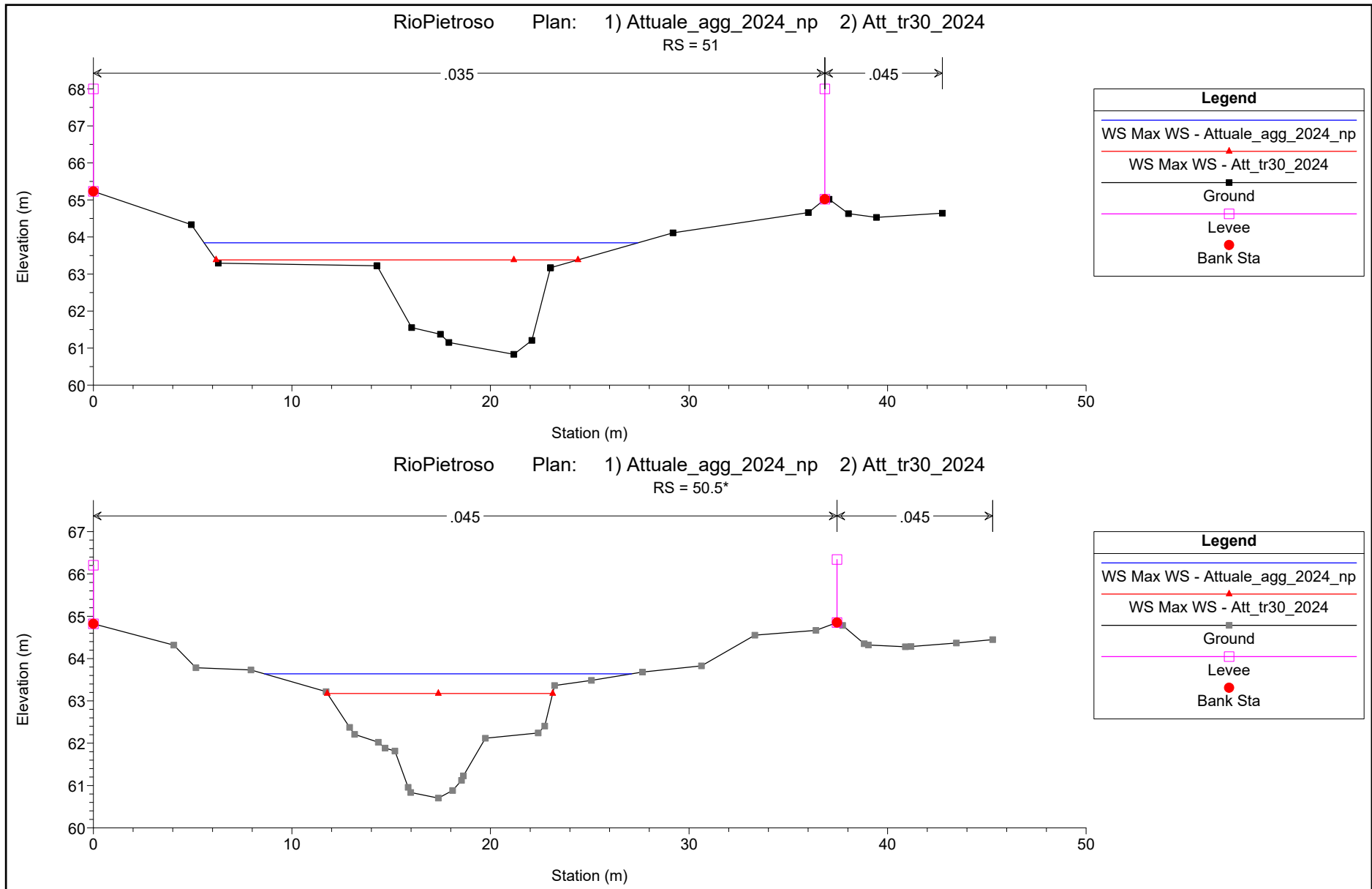


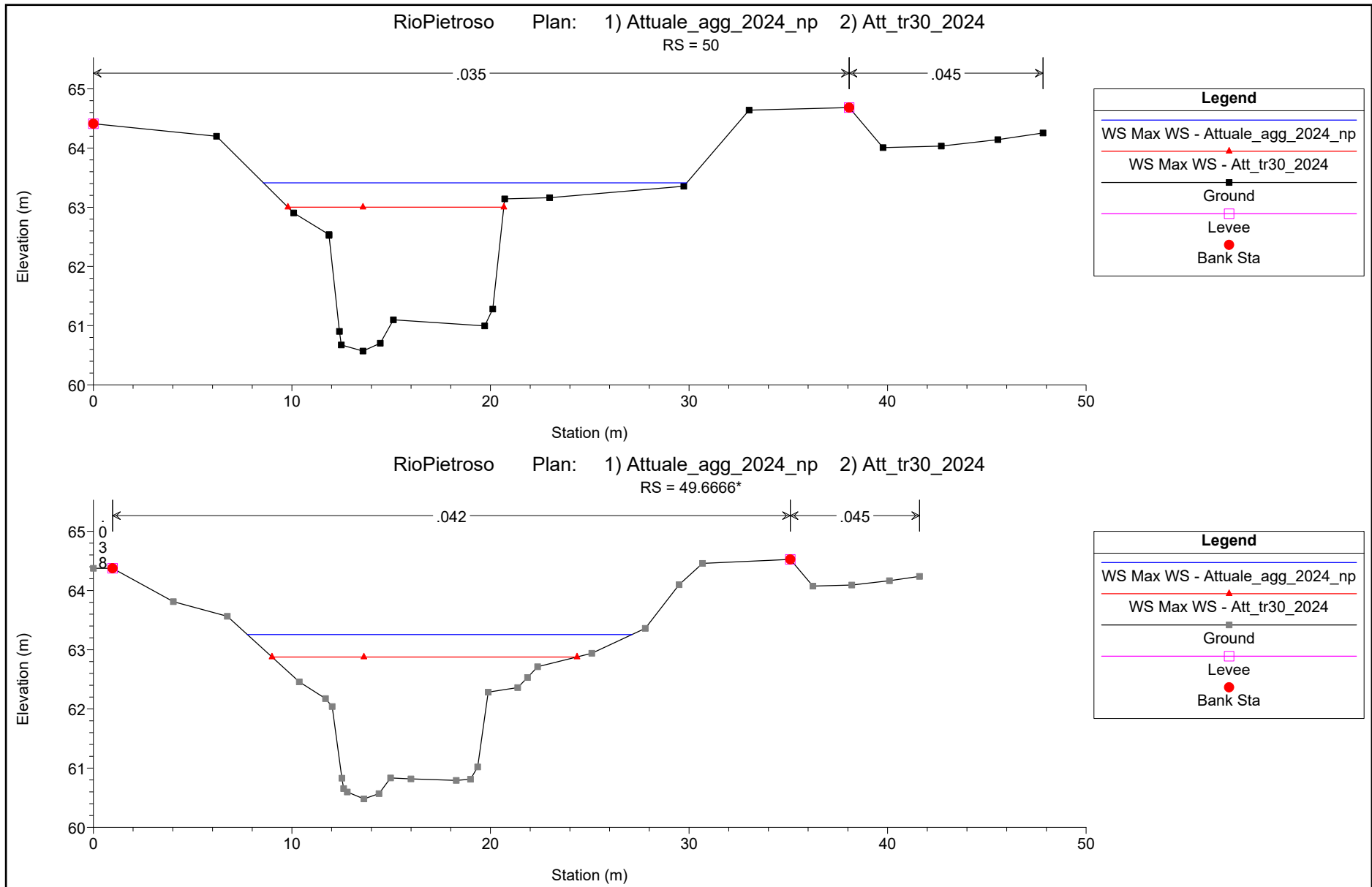




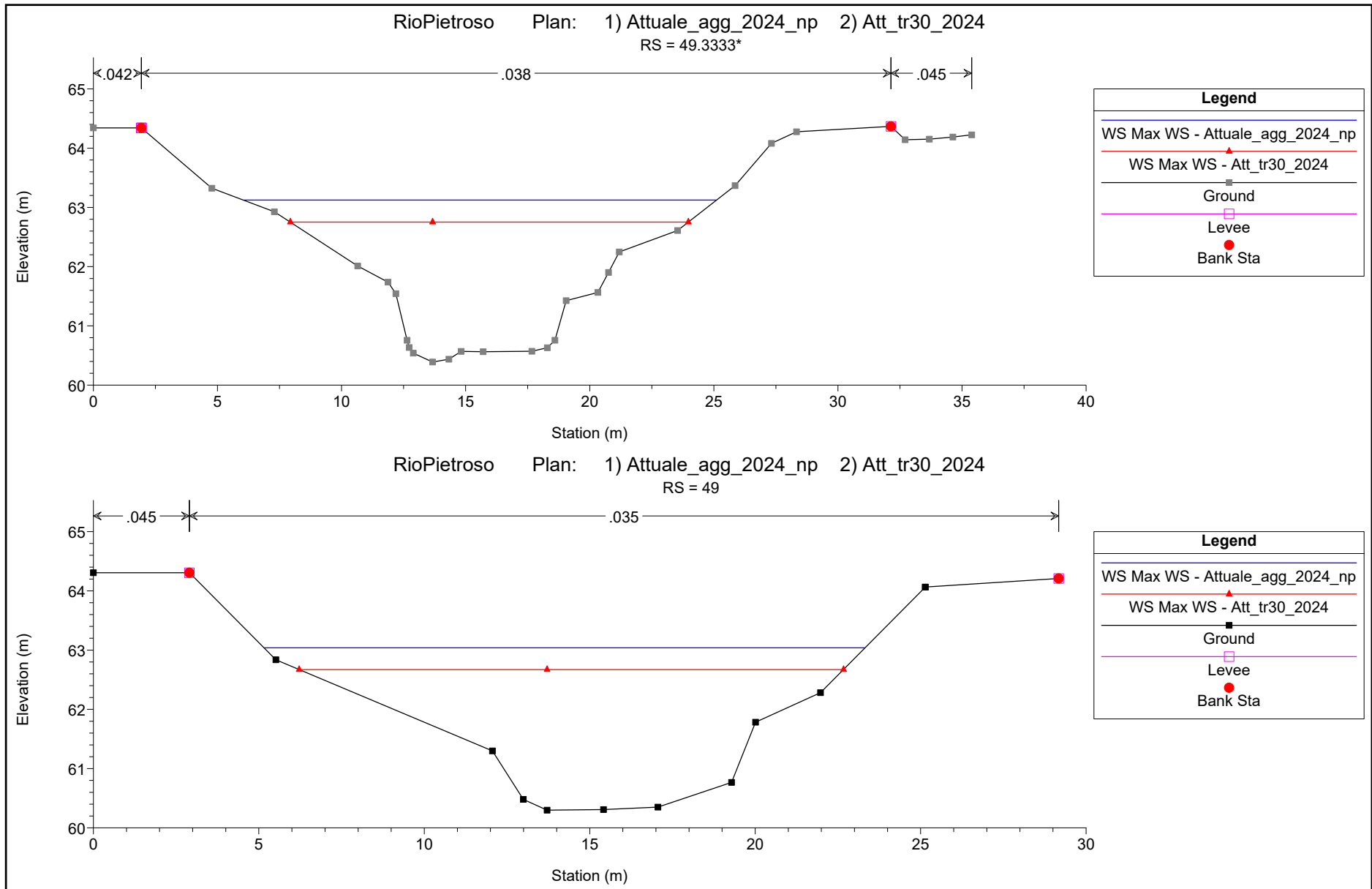


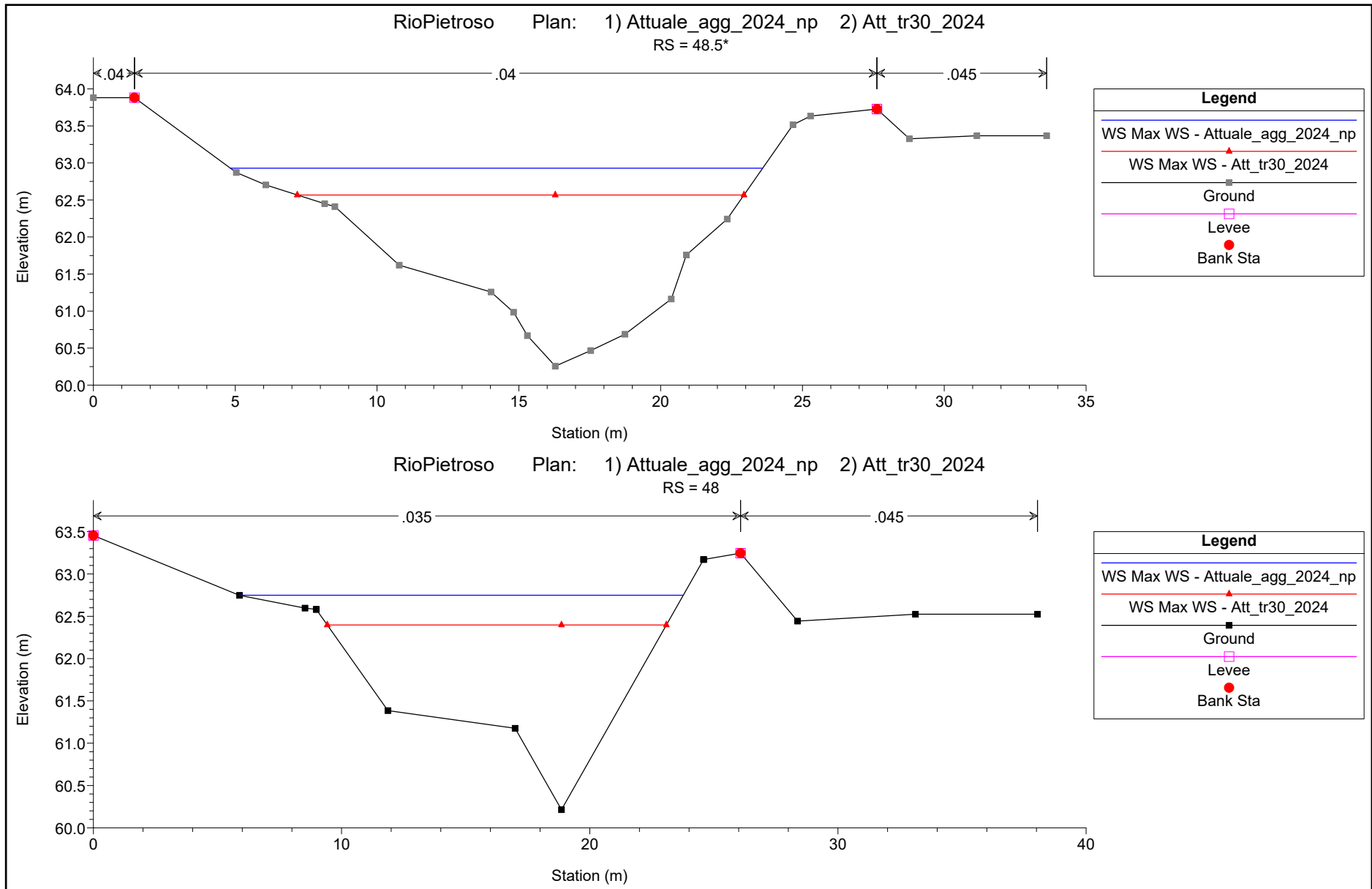


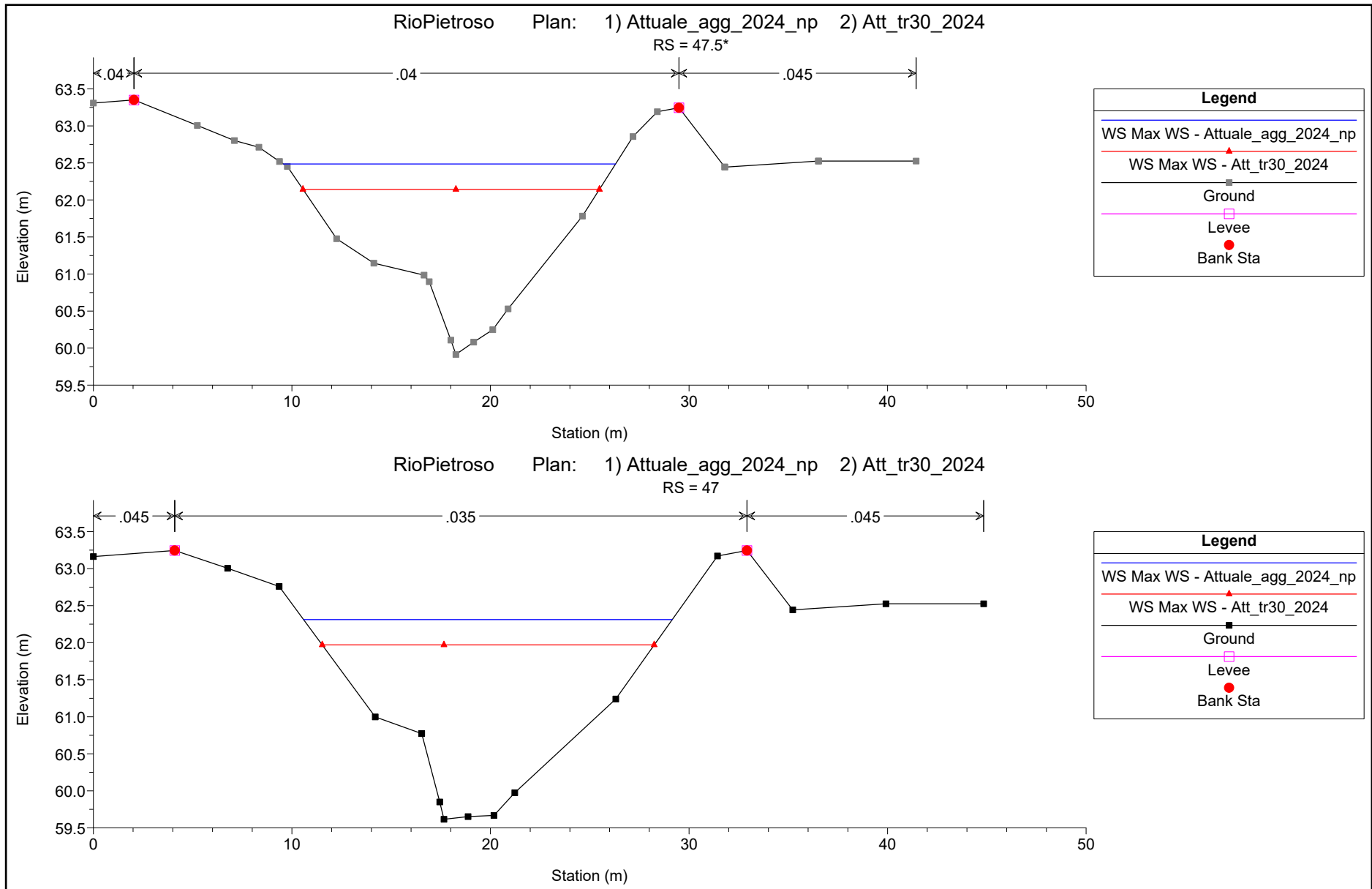


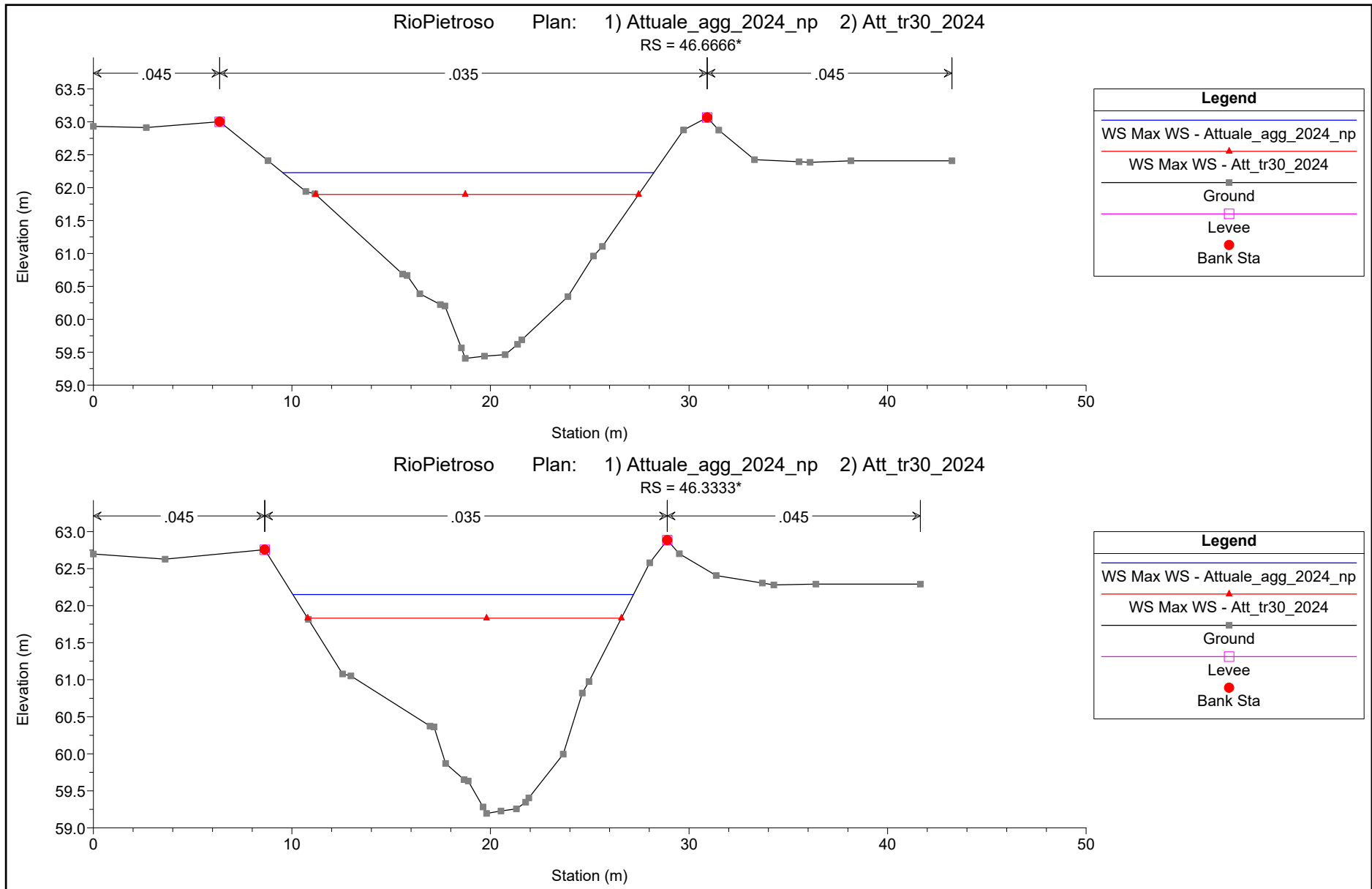


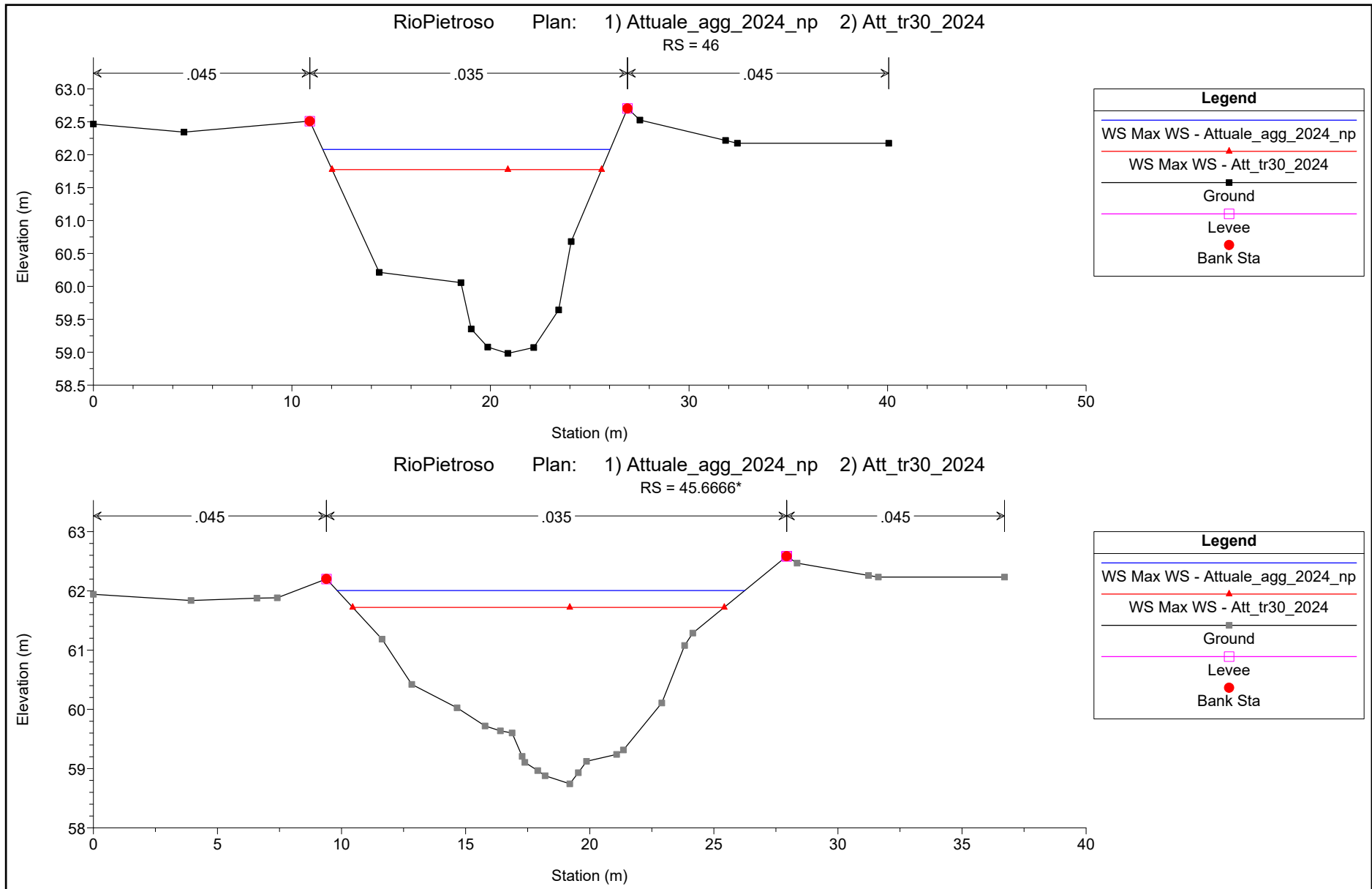


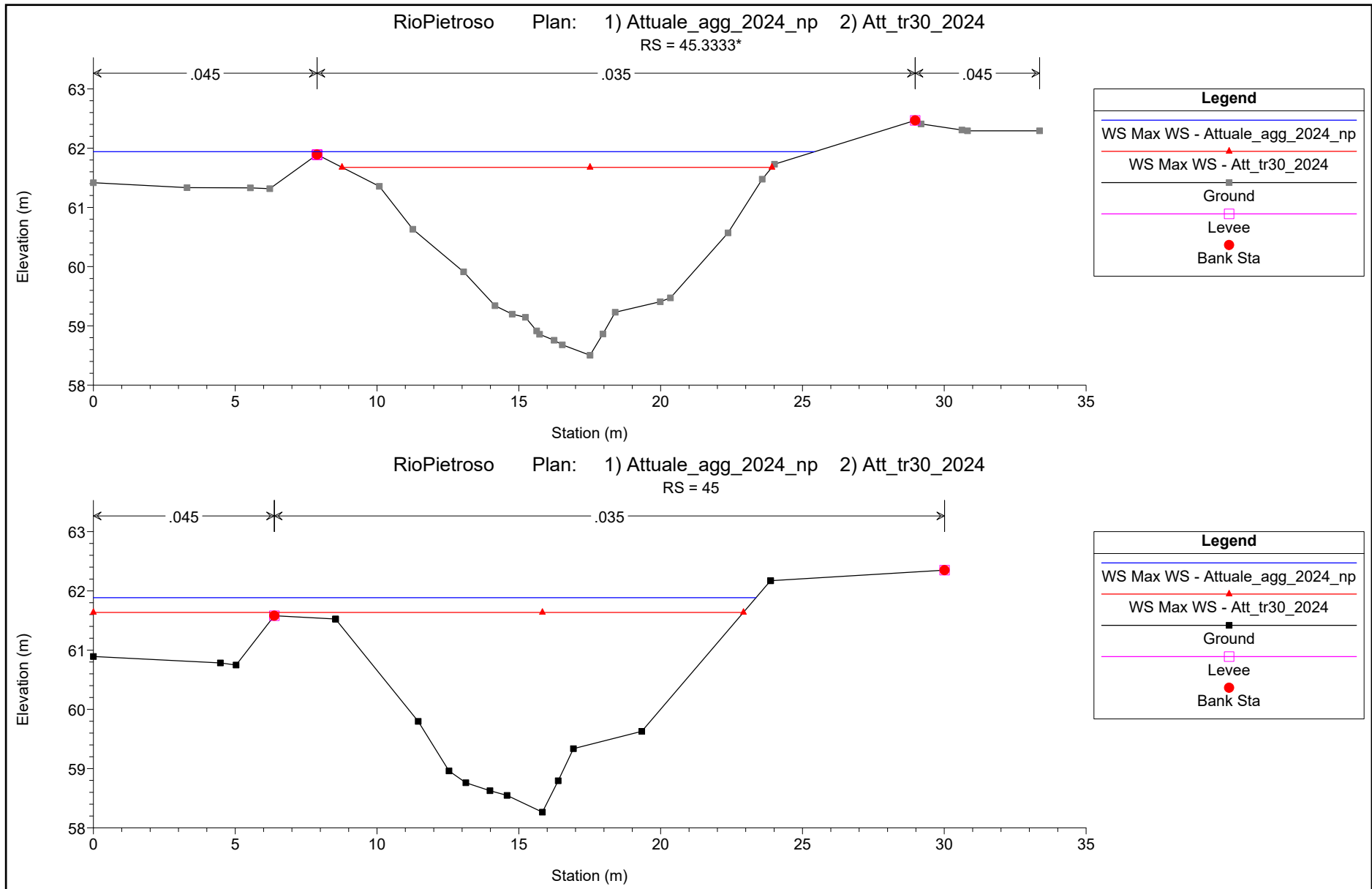


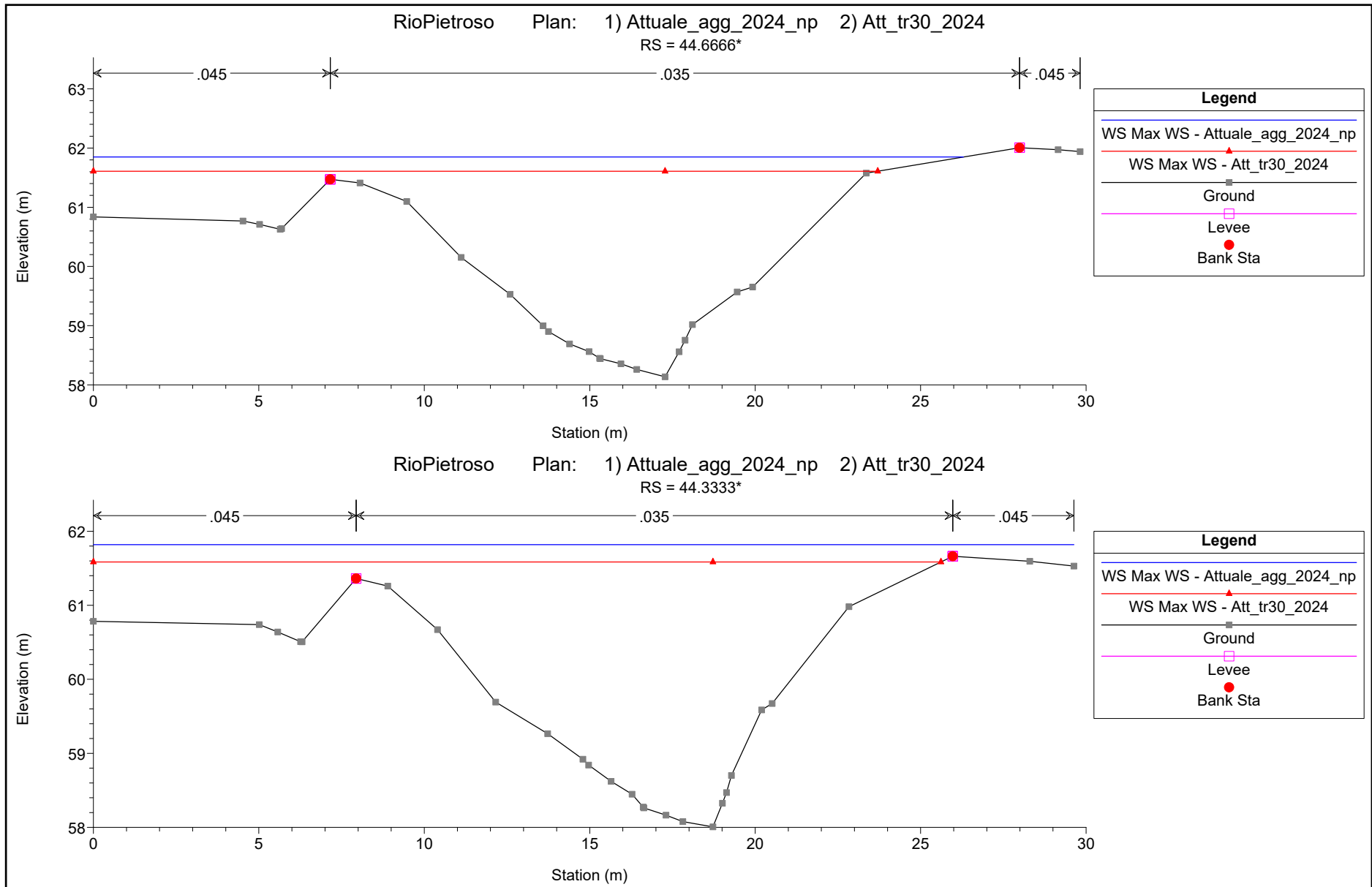


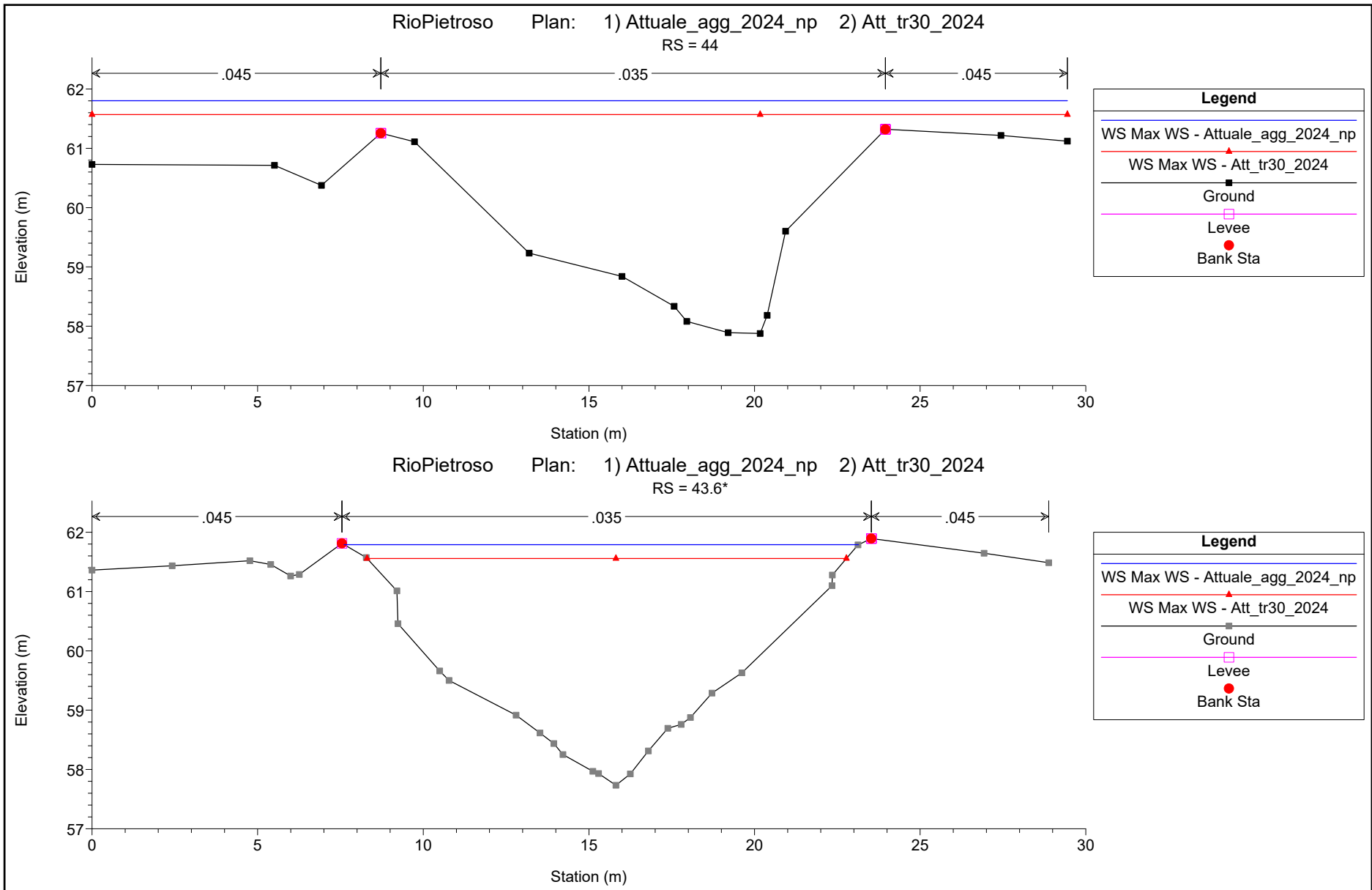




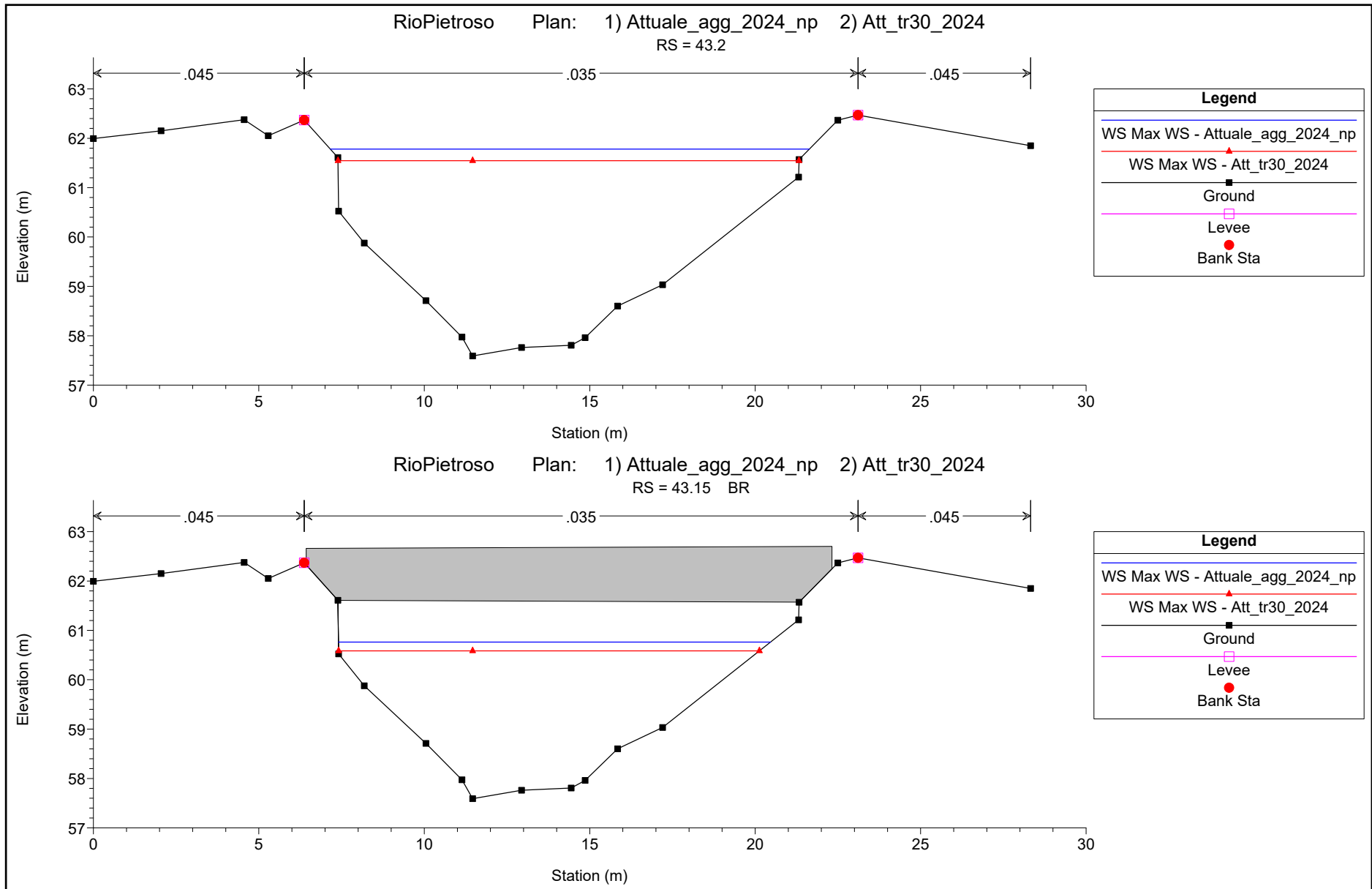


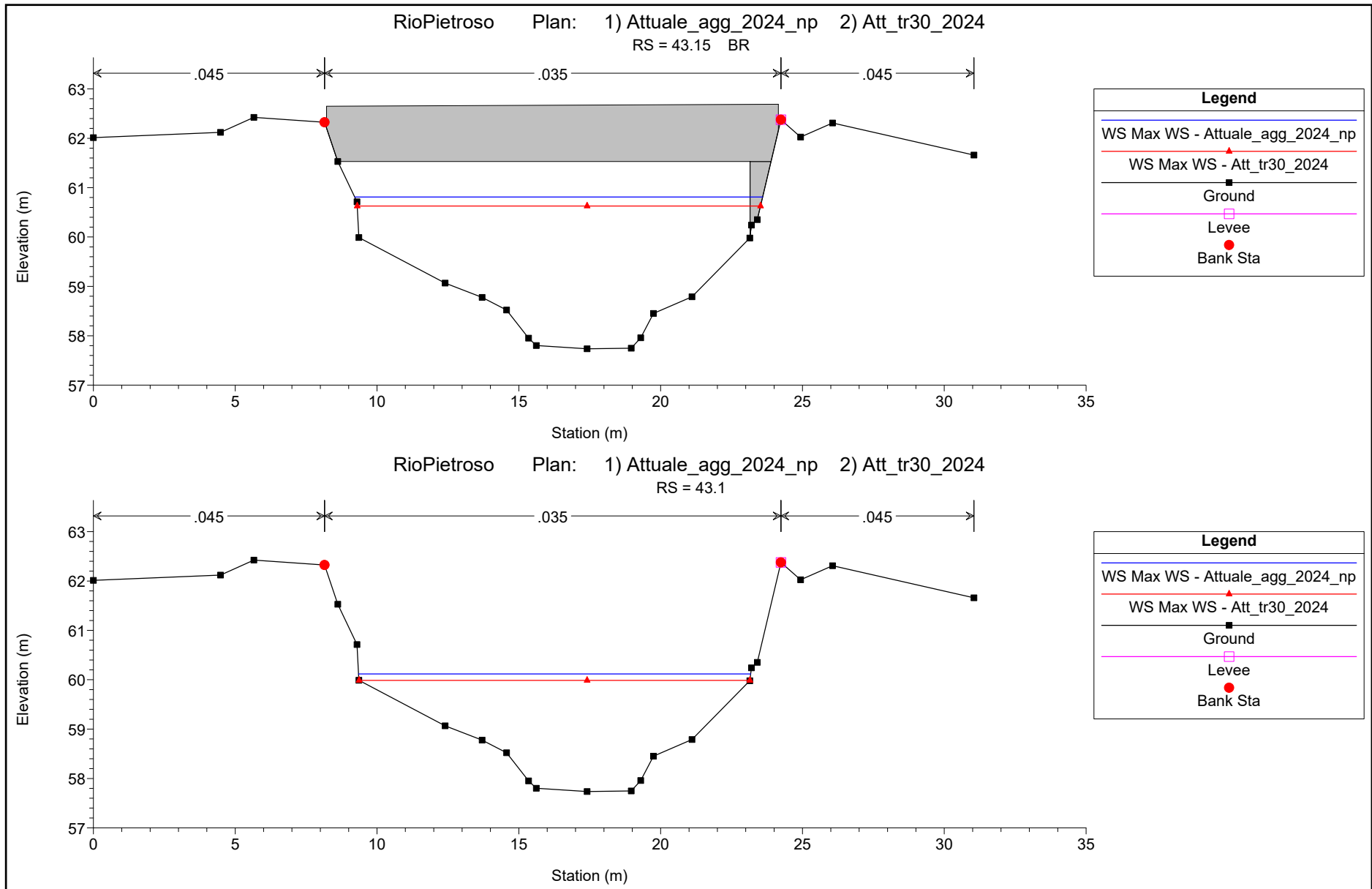


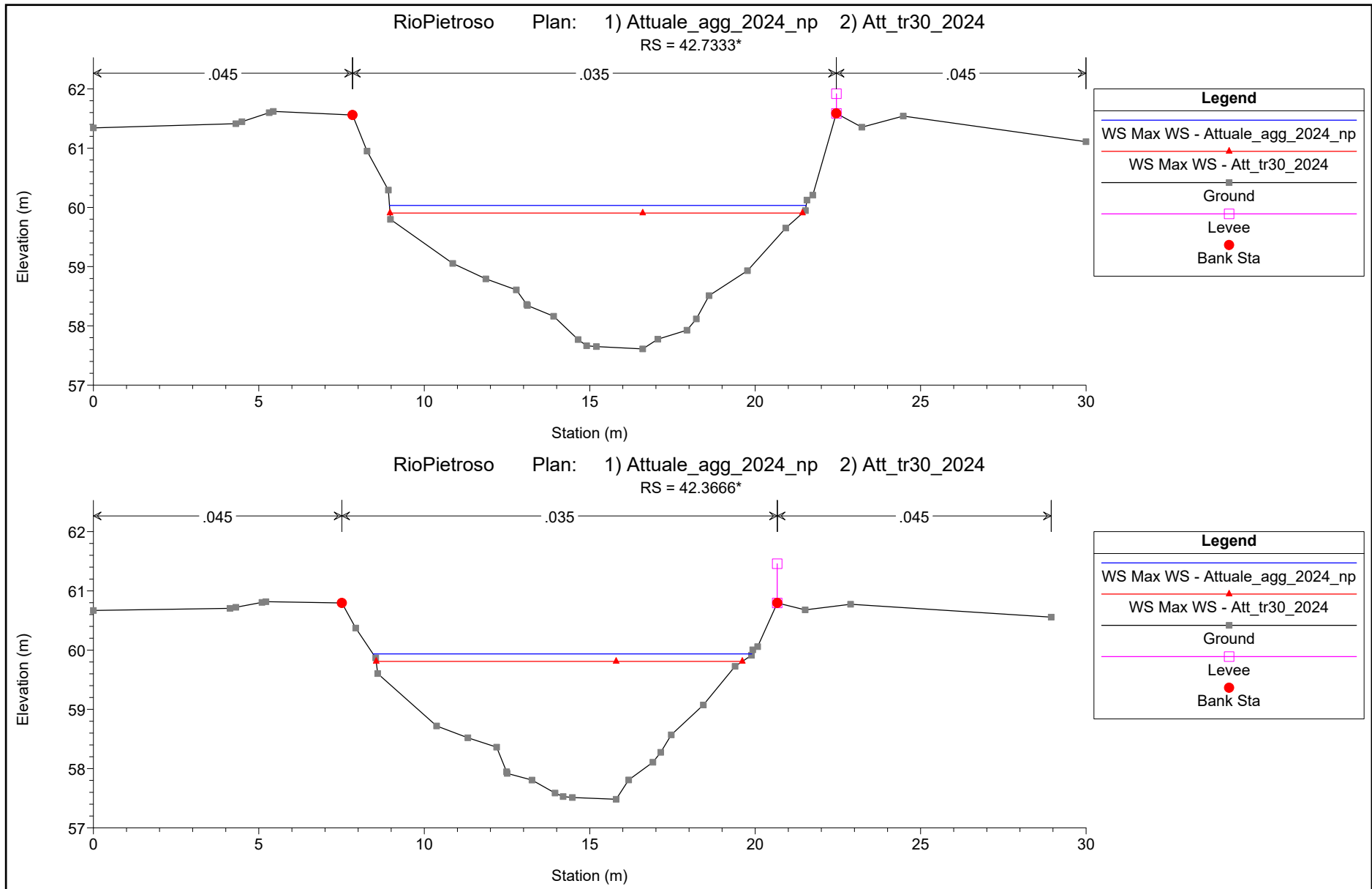


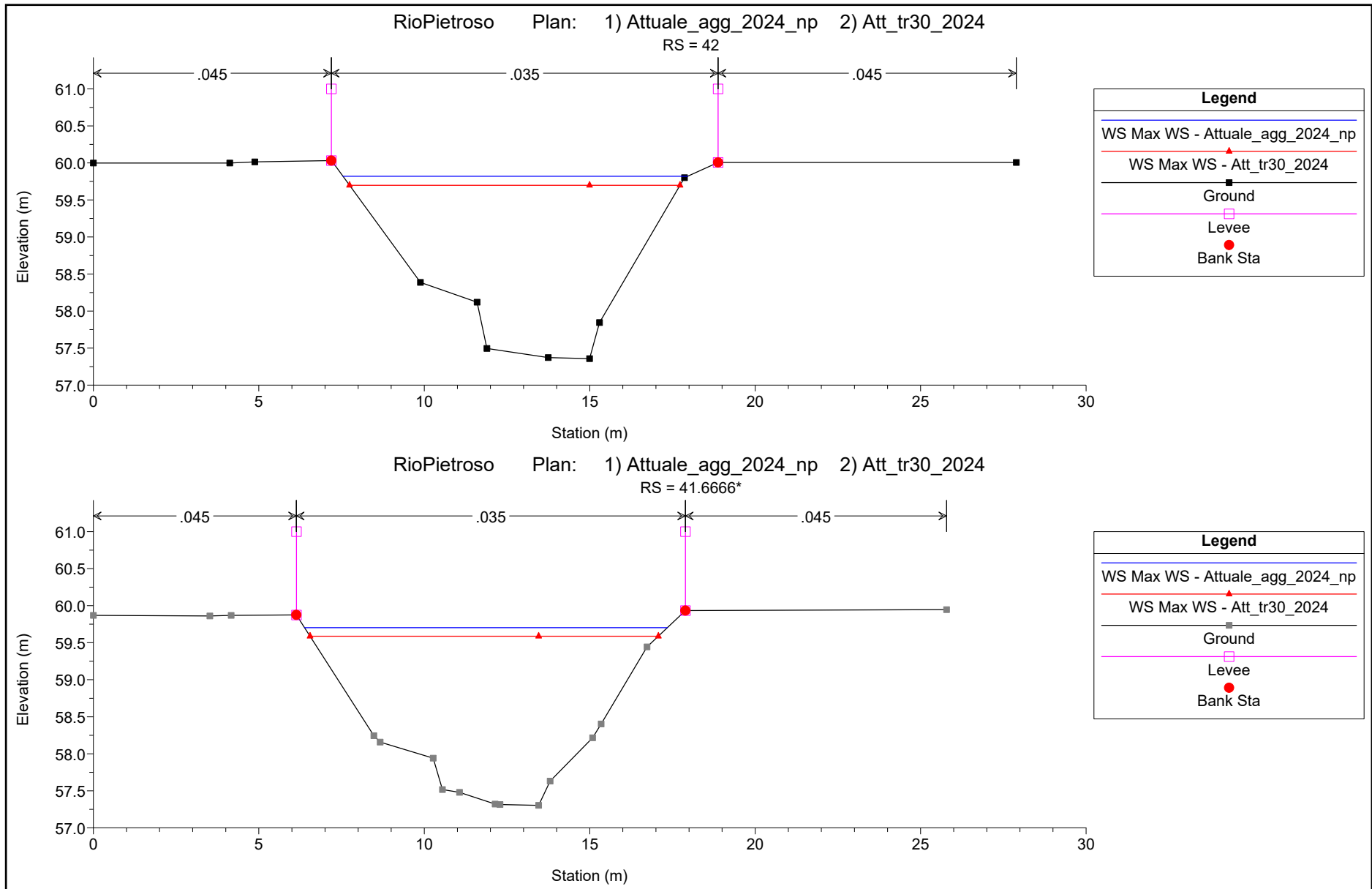


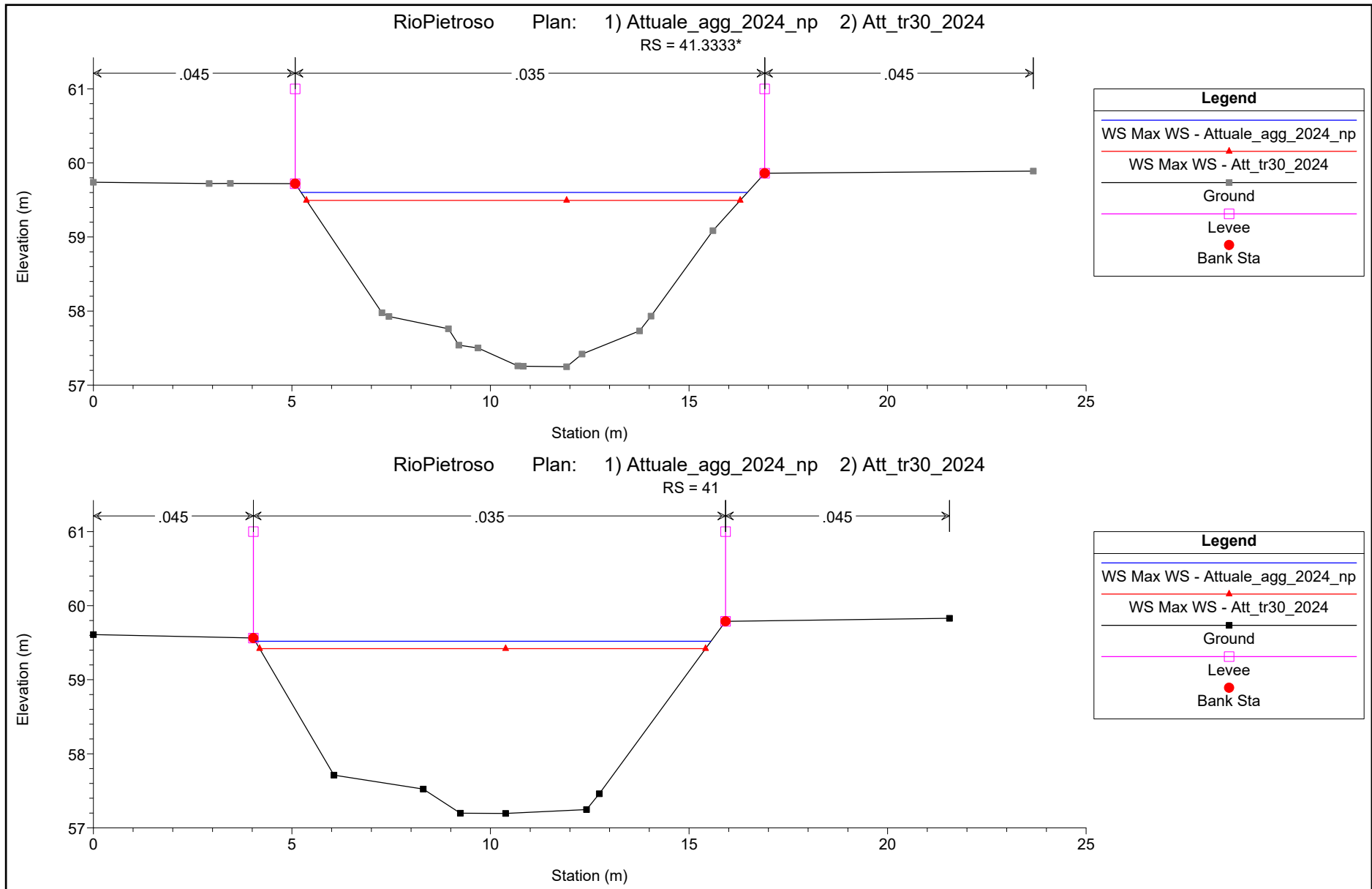


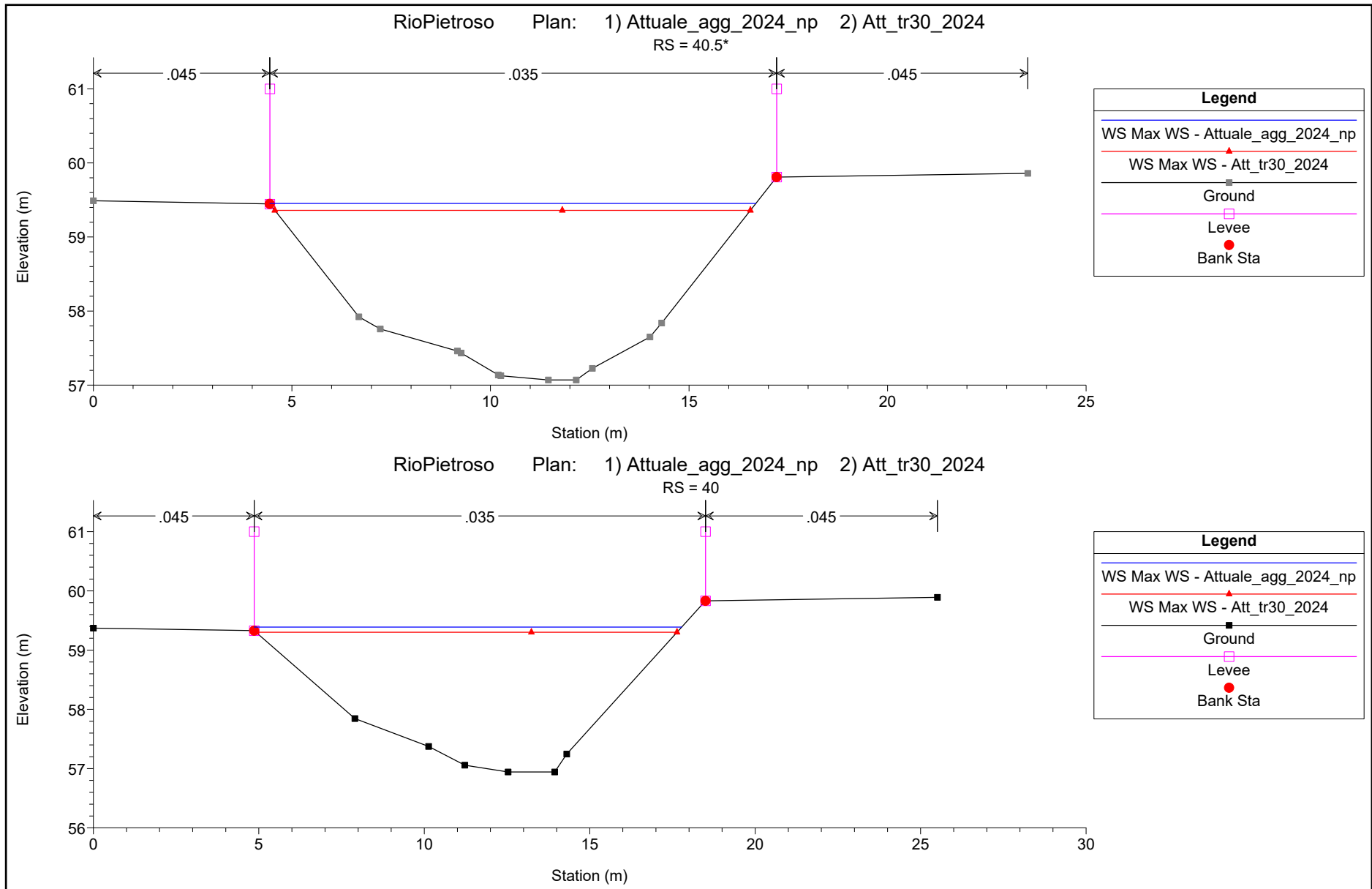


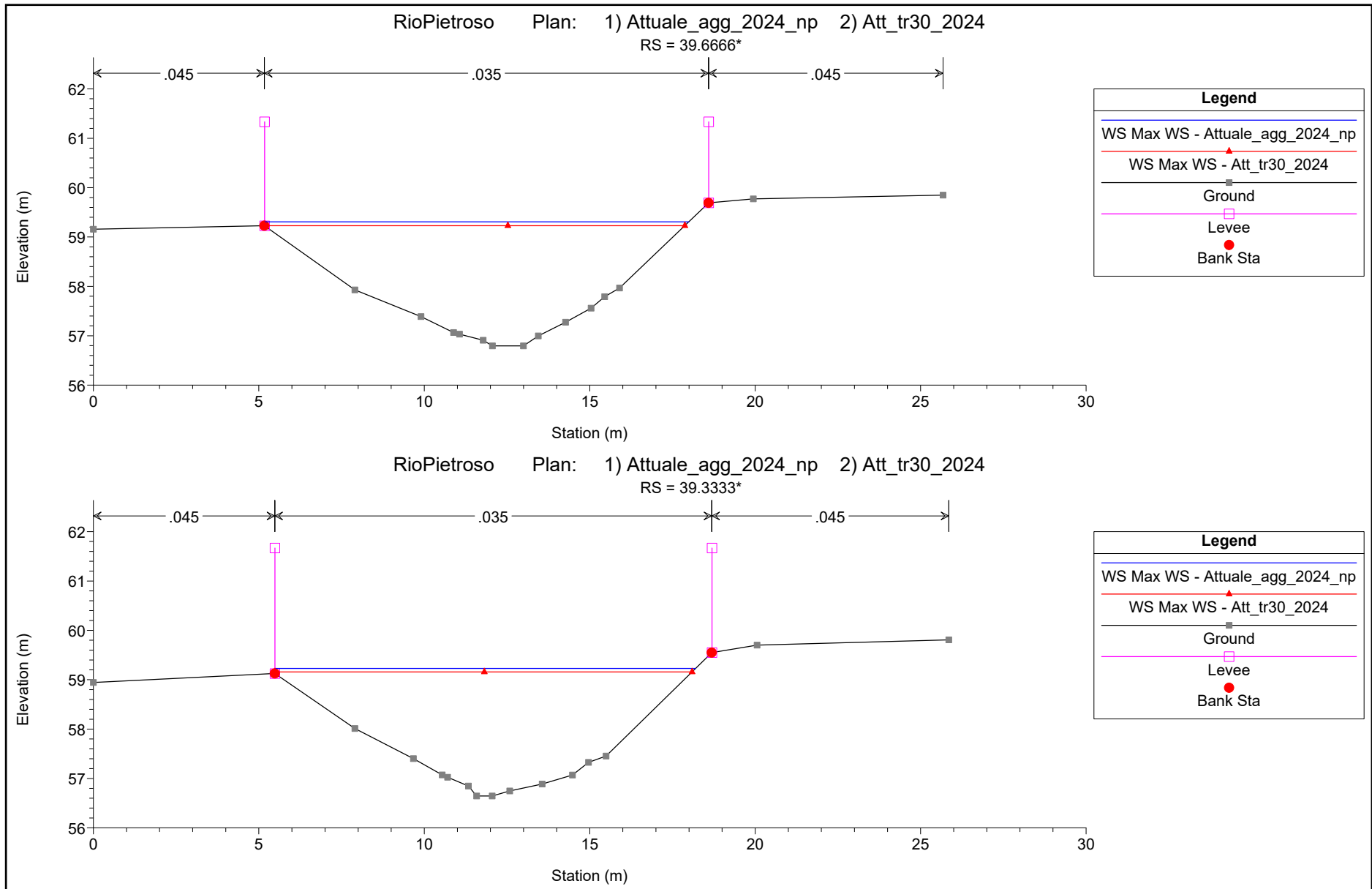


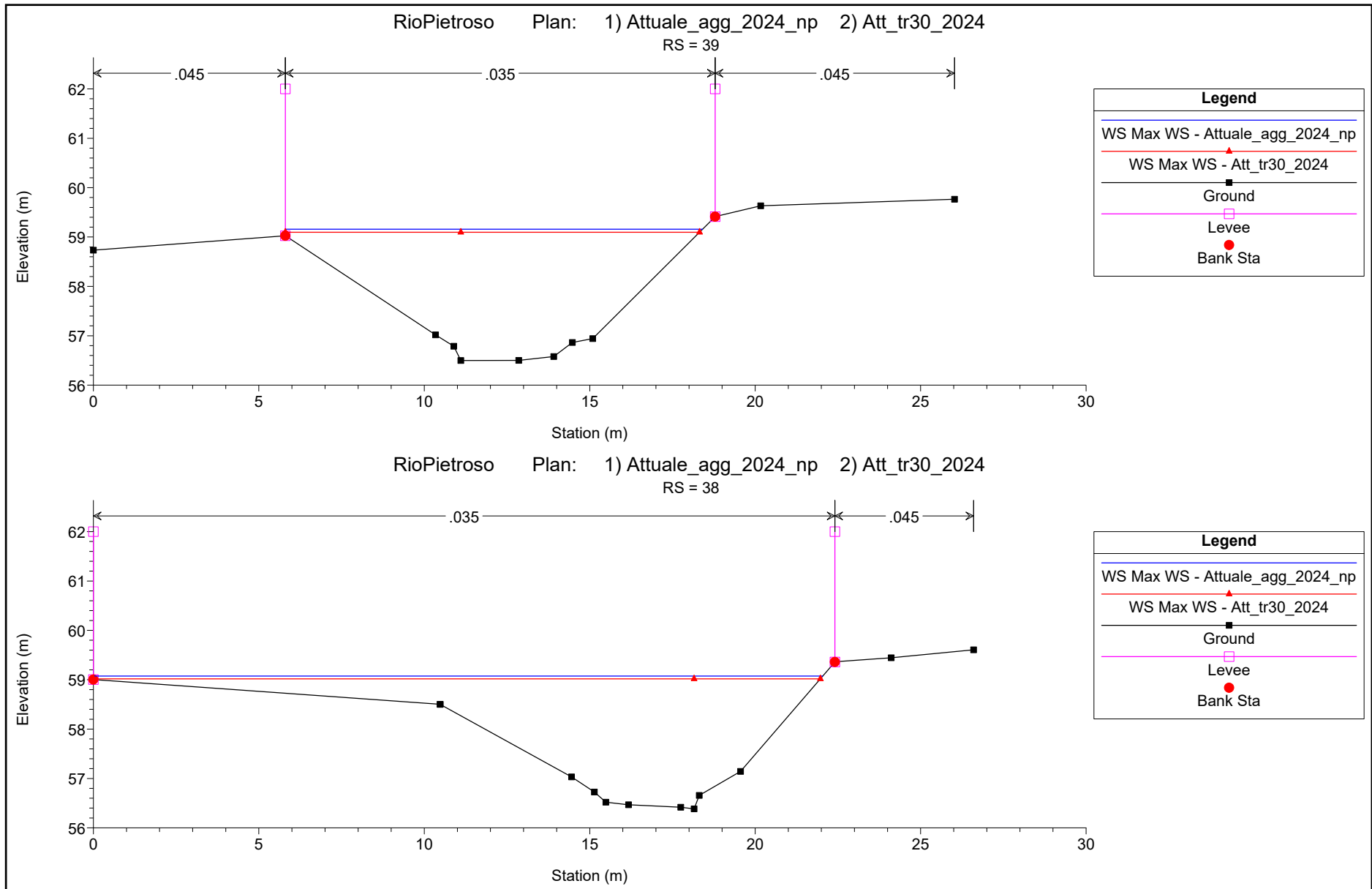






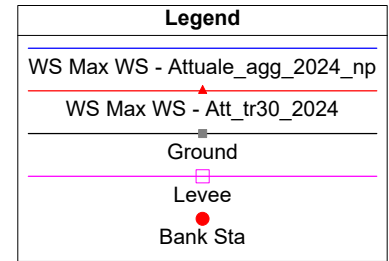
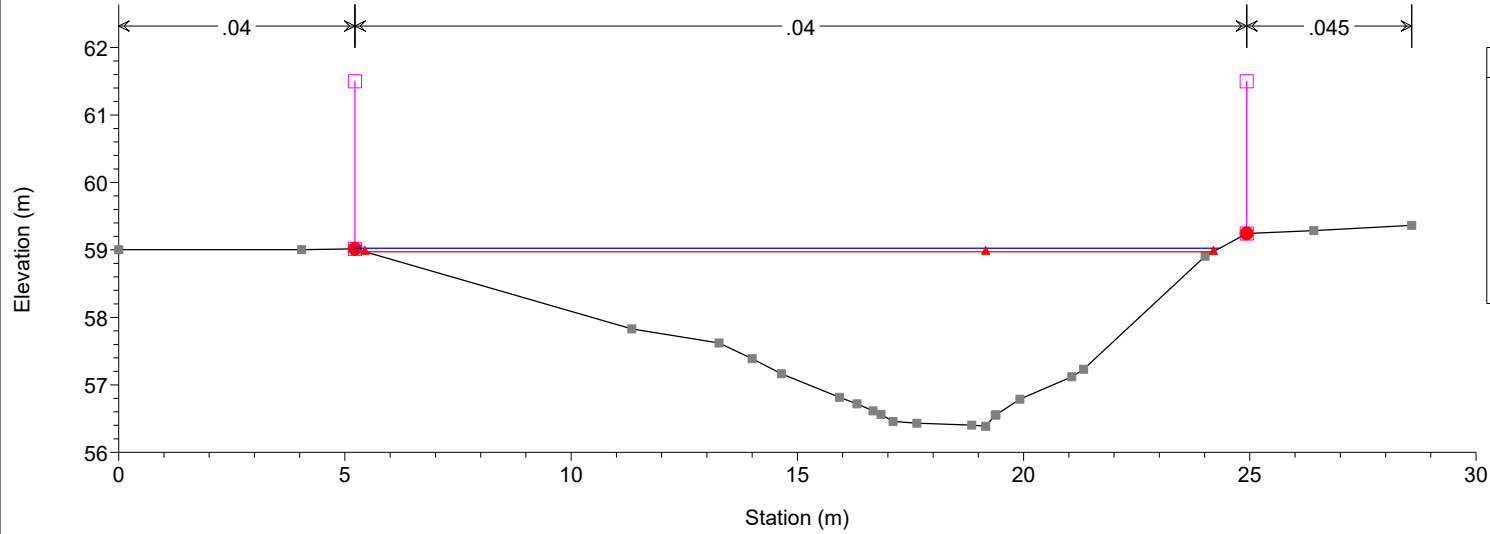




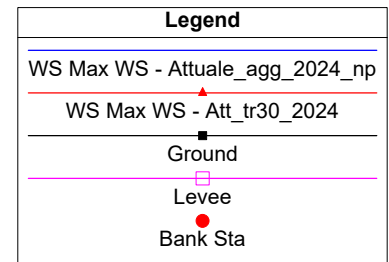
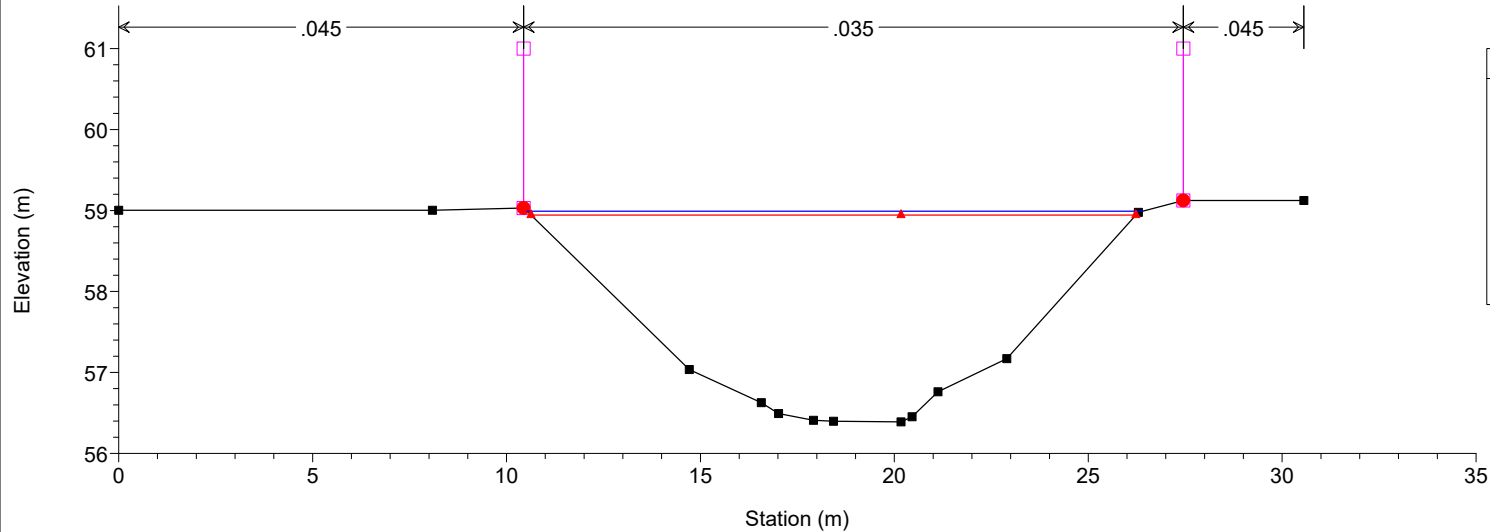


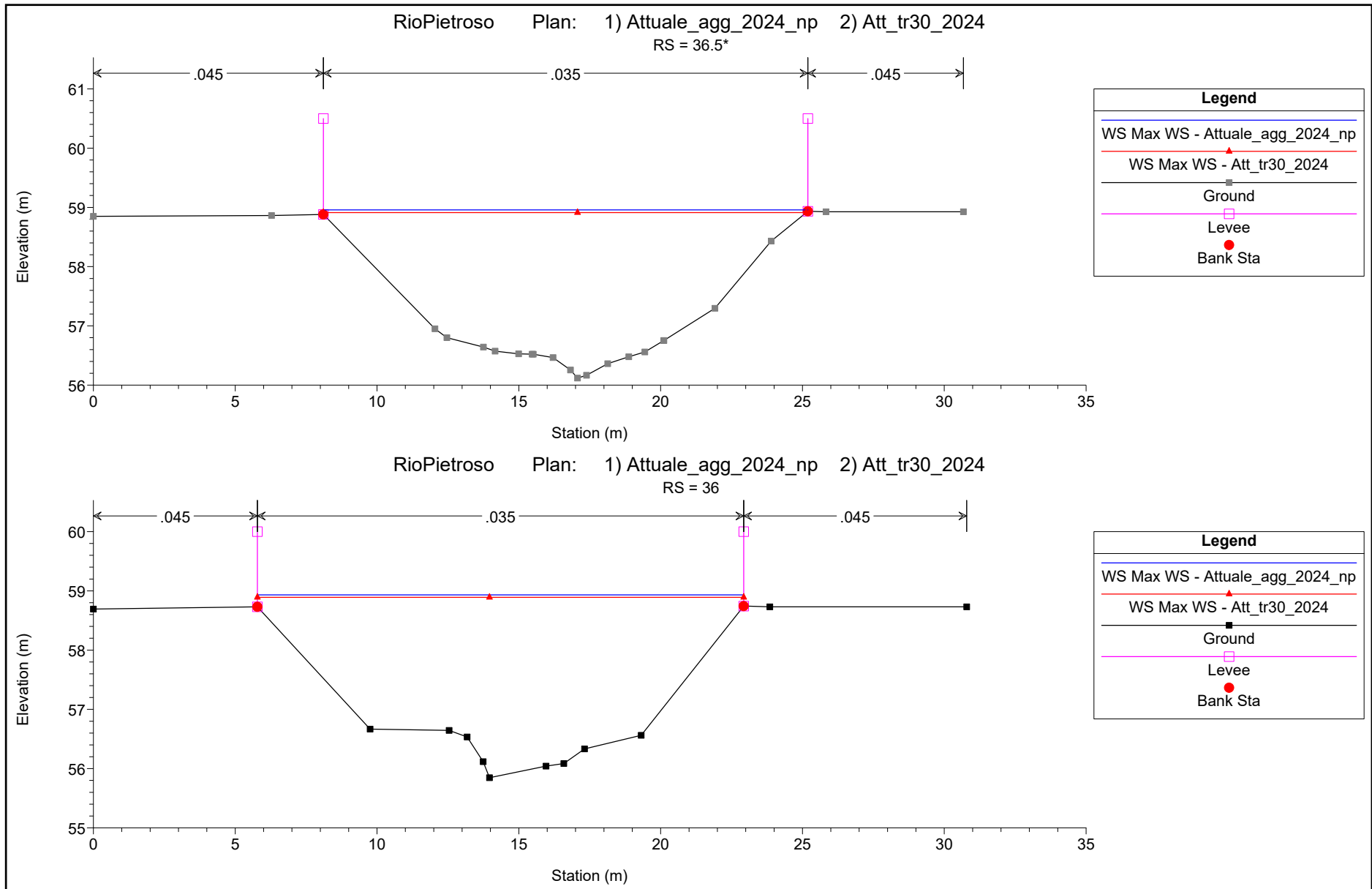


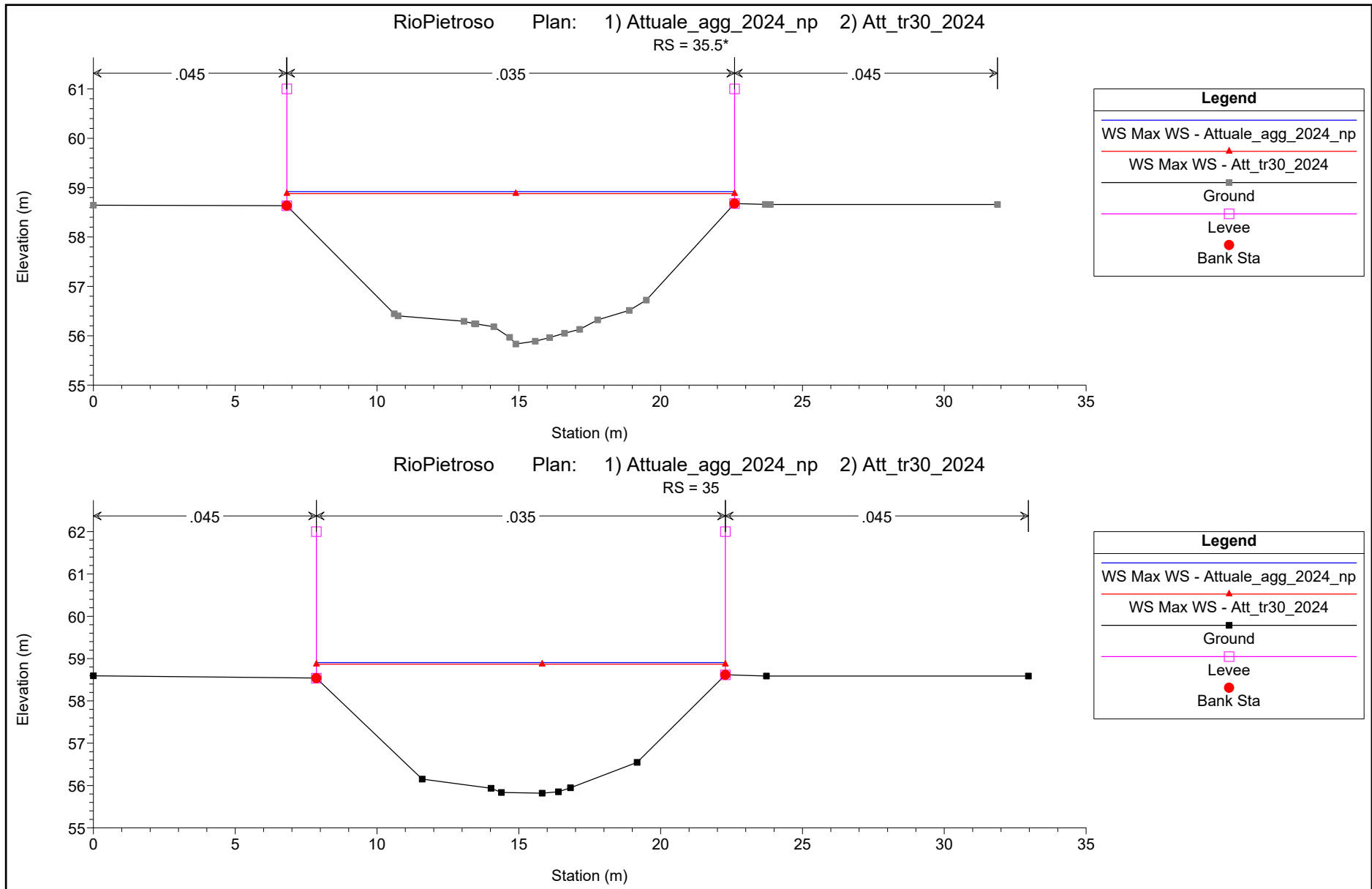
RioPietroso Plan: 1) Attuale\_agg\_2024\_np 2) Att\_tr30\_2024  
RS = 37.5\*

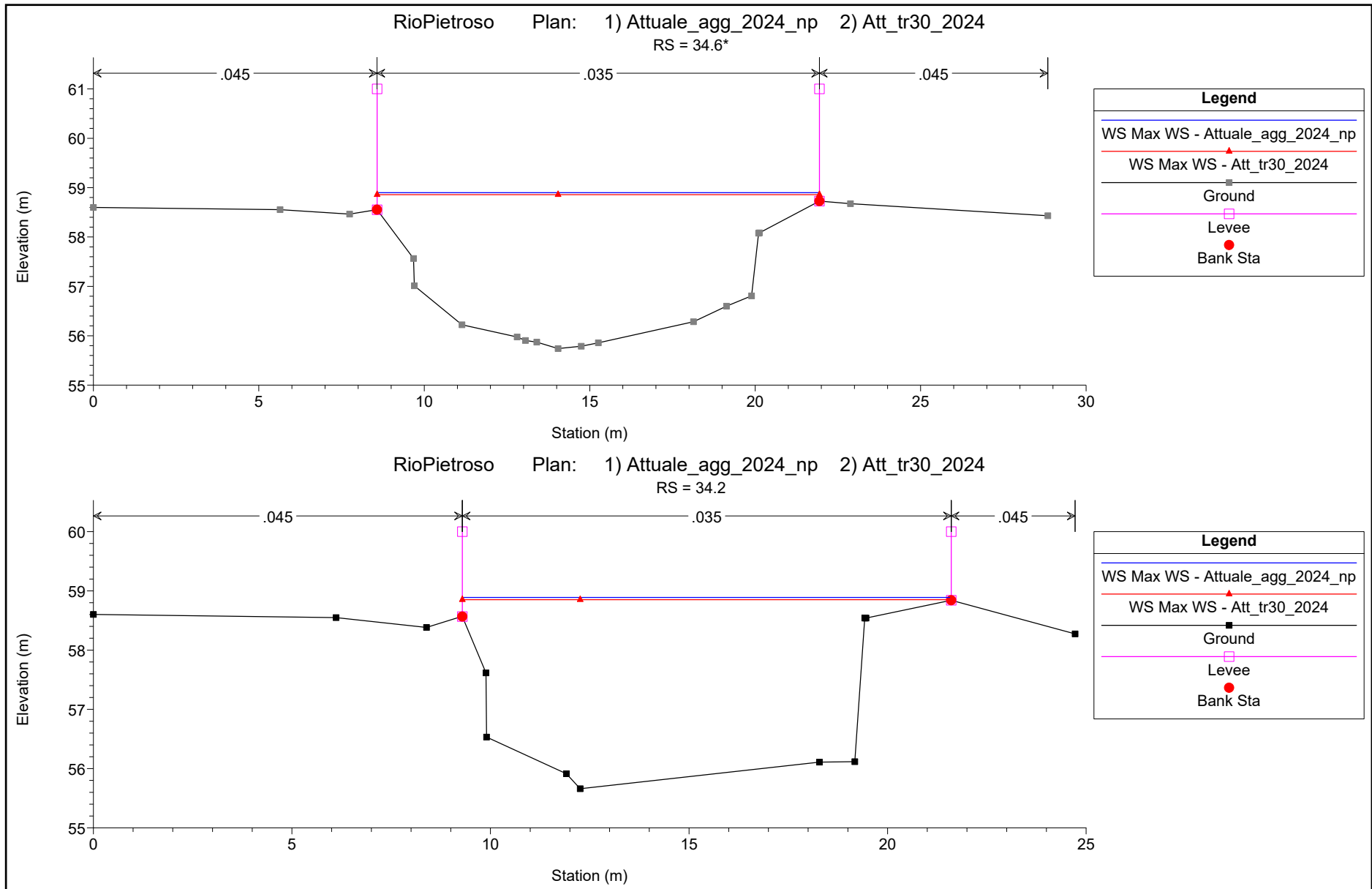


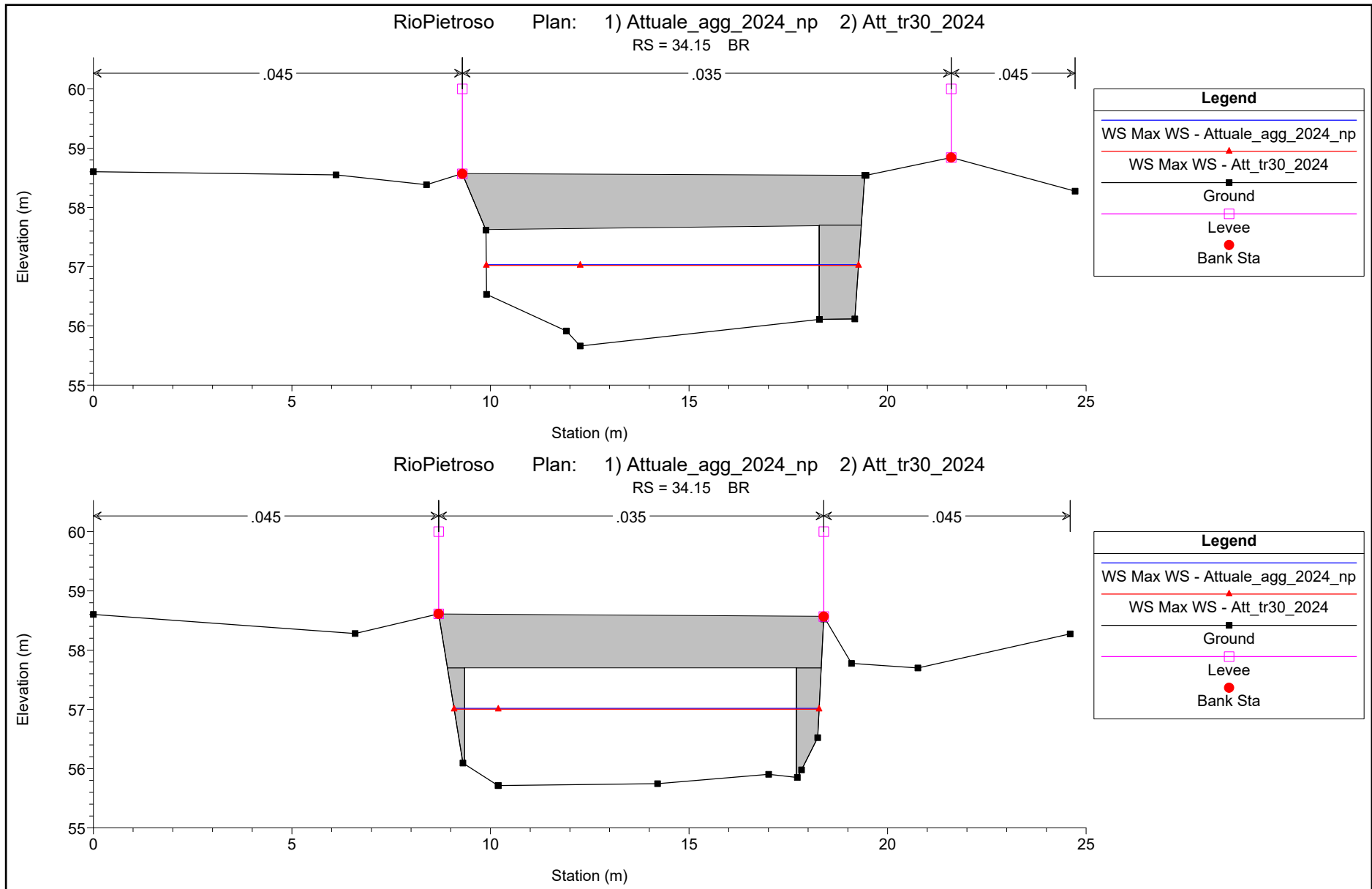
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RS = 37

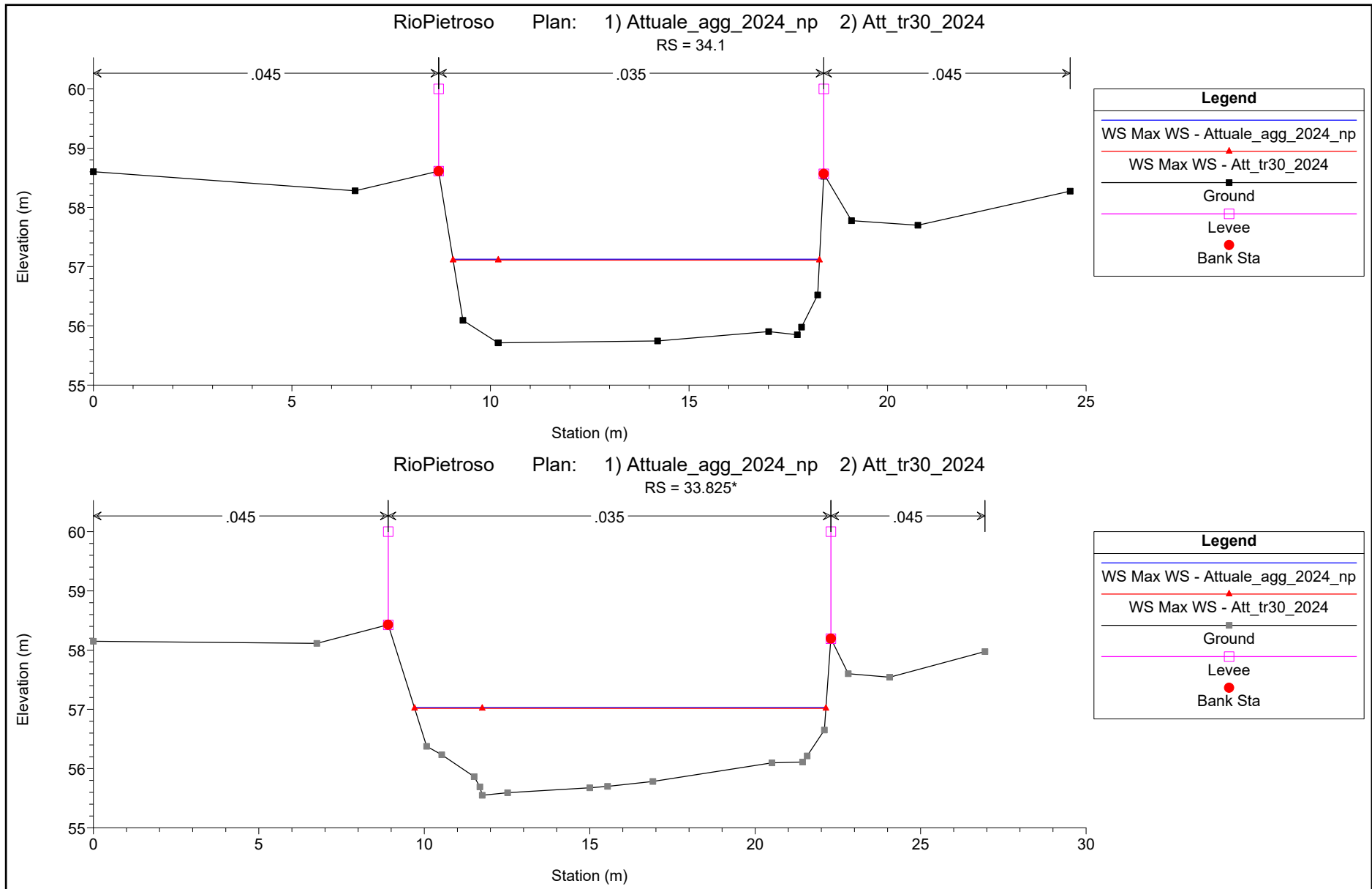


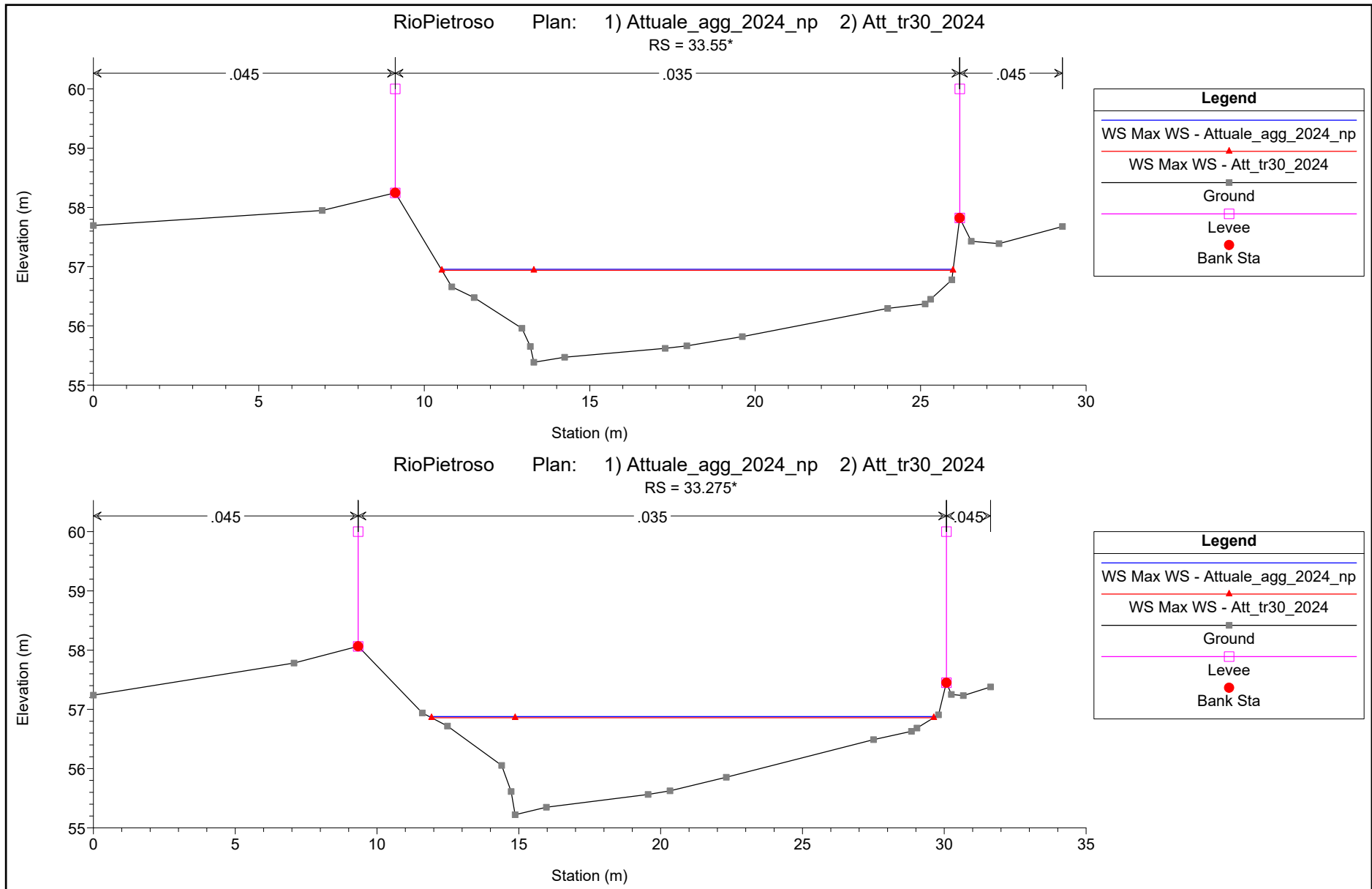


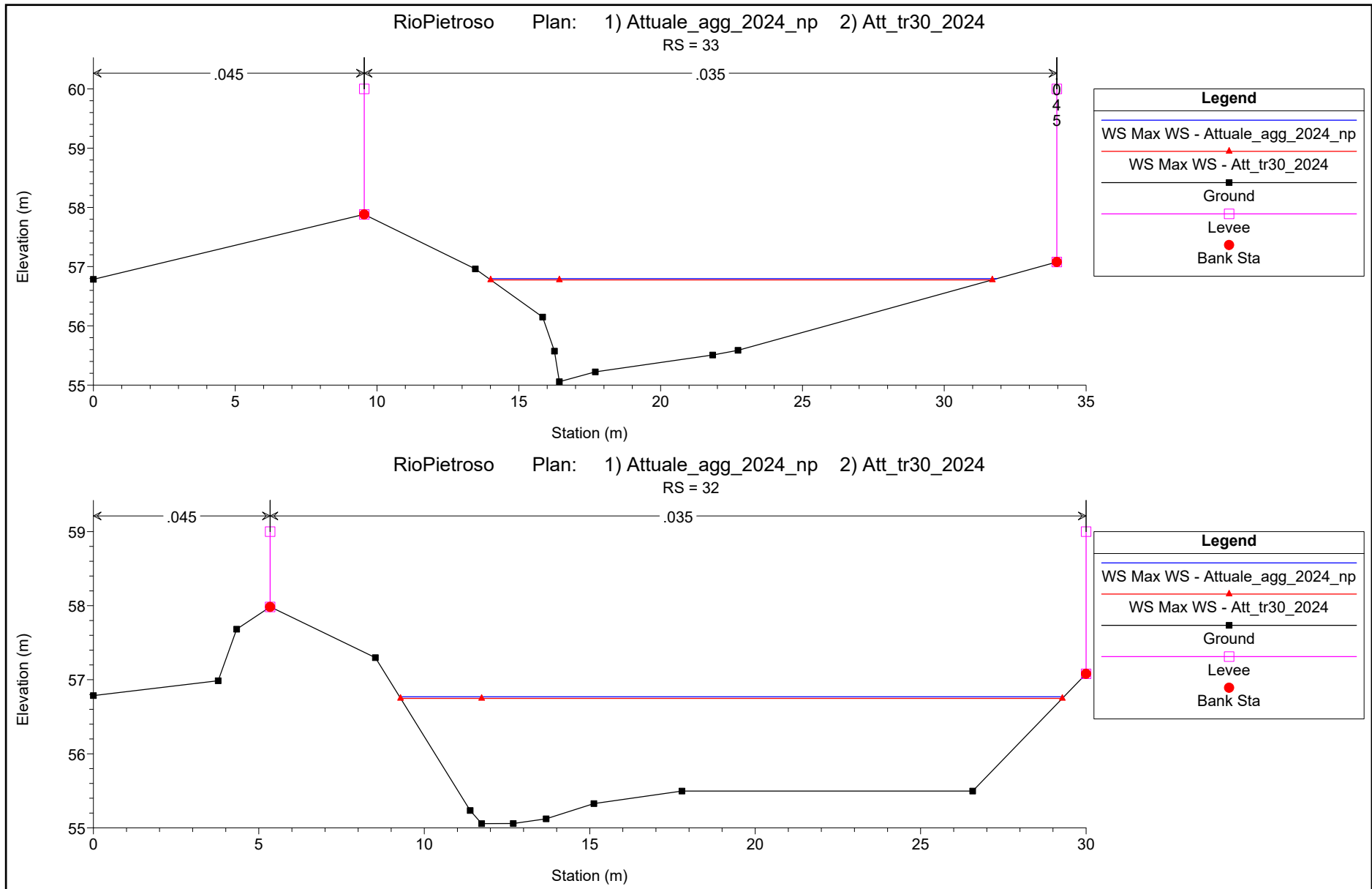




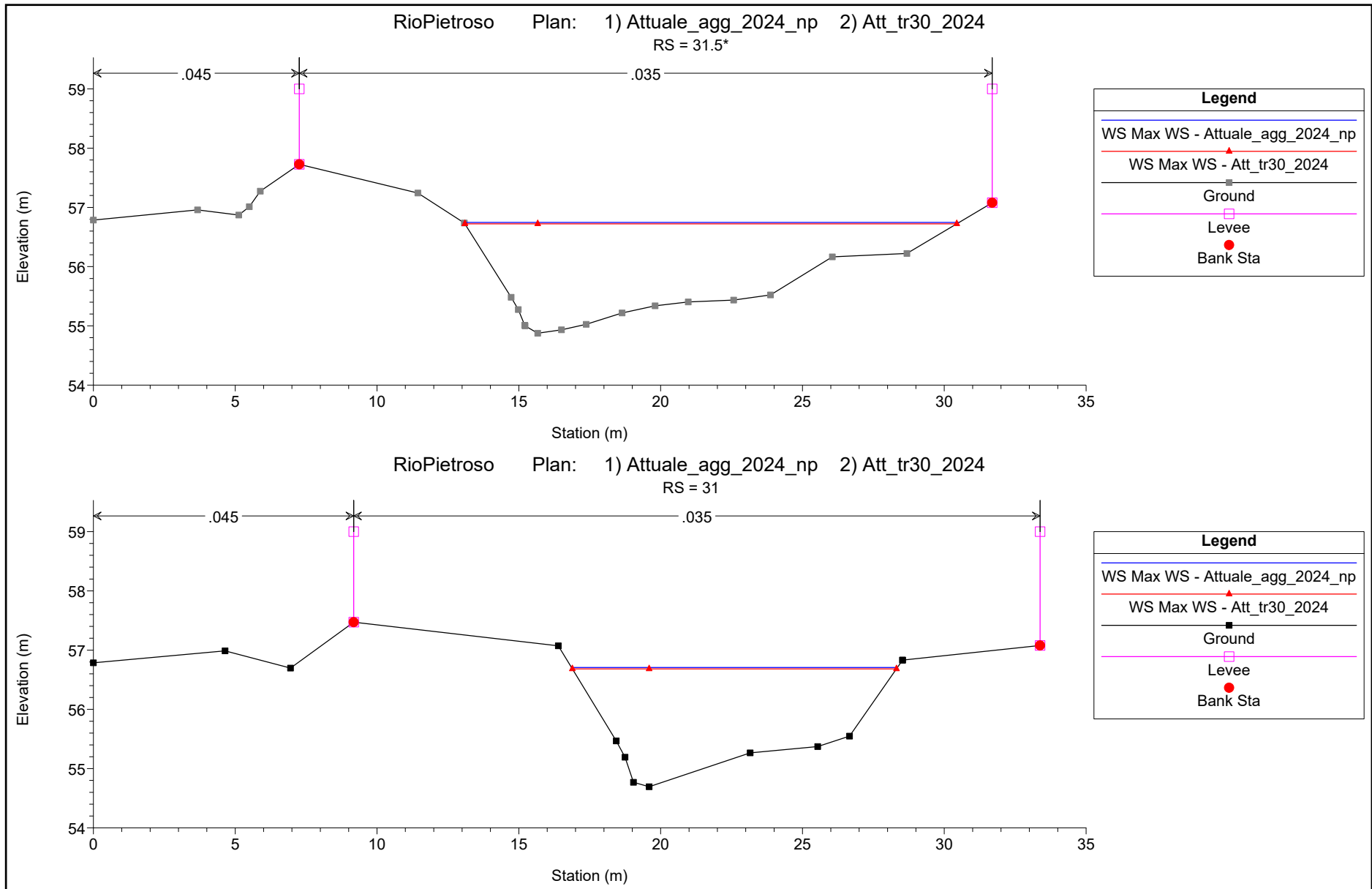


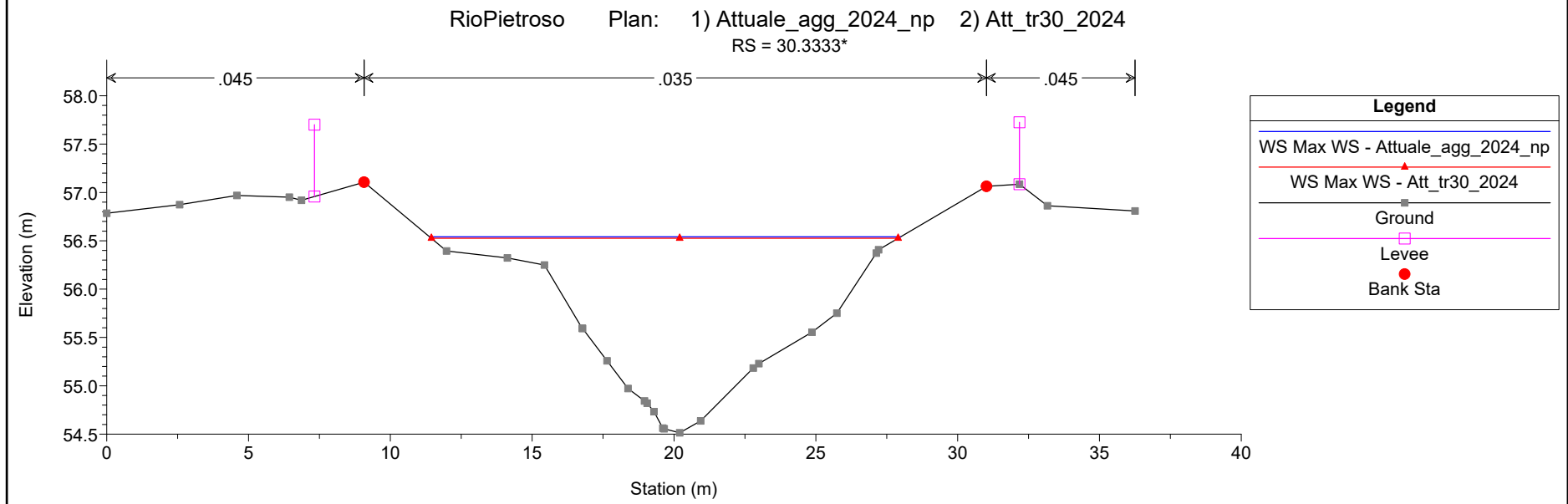
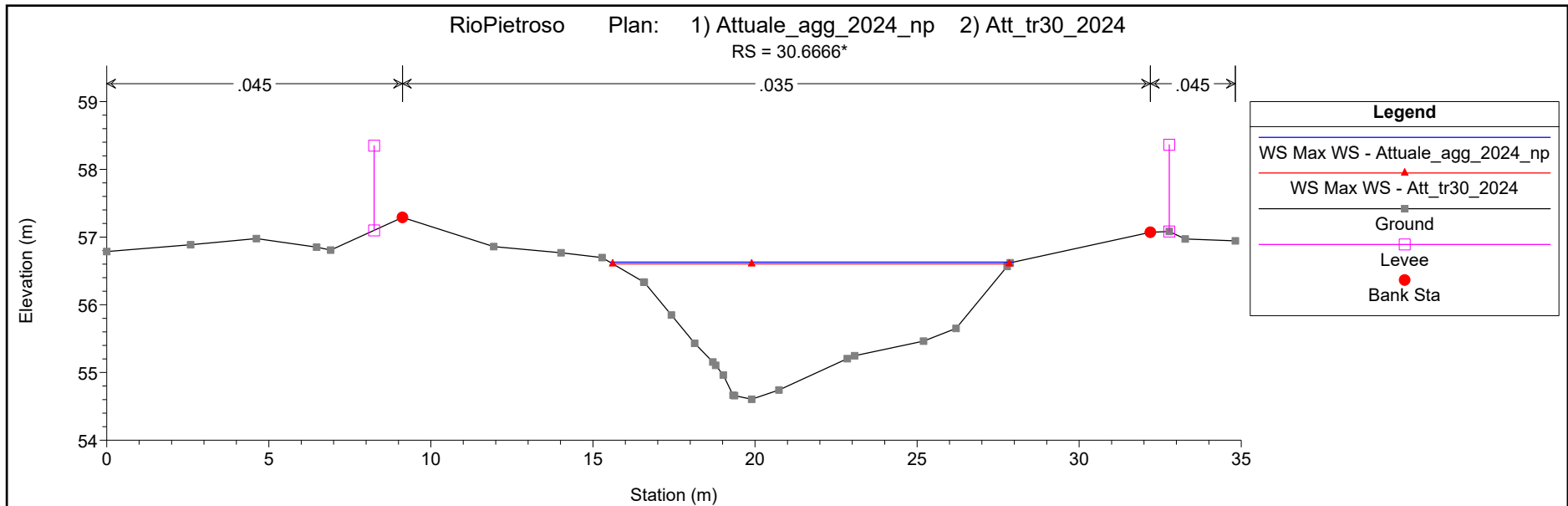
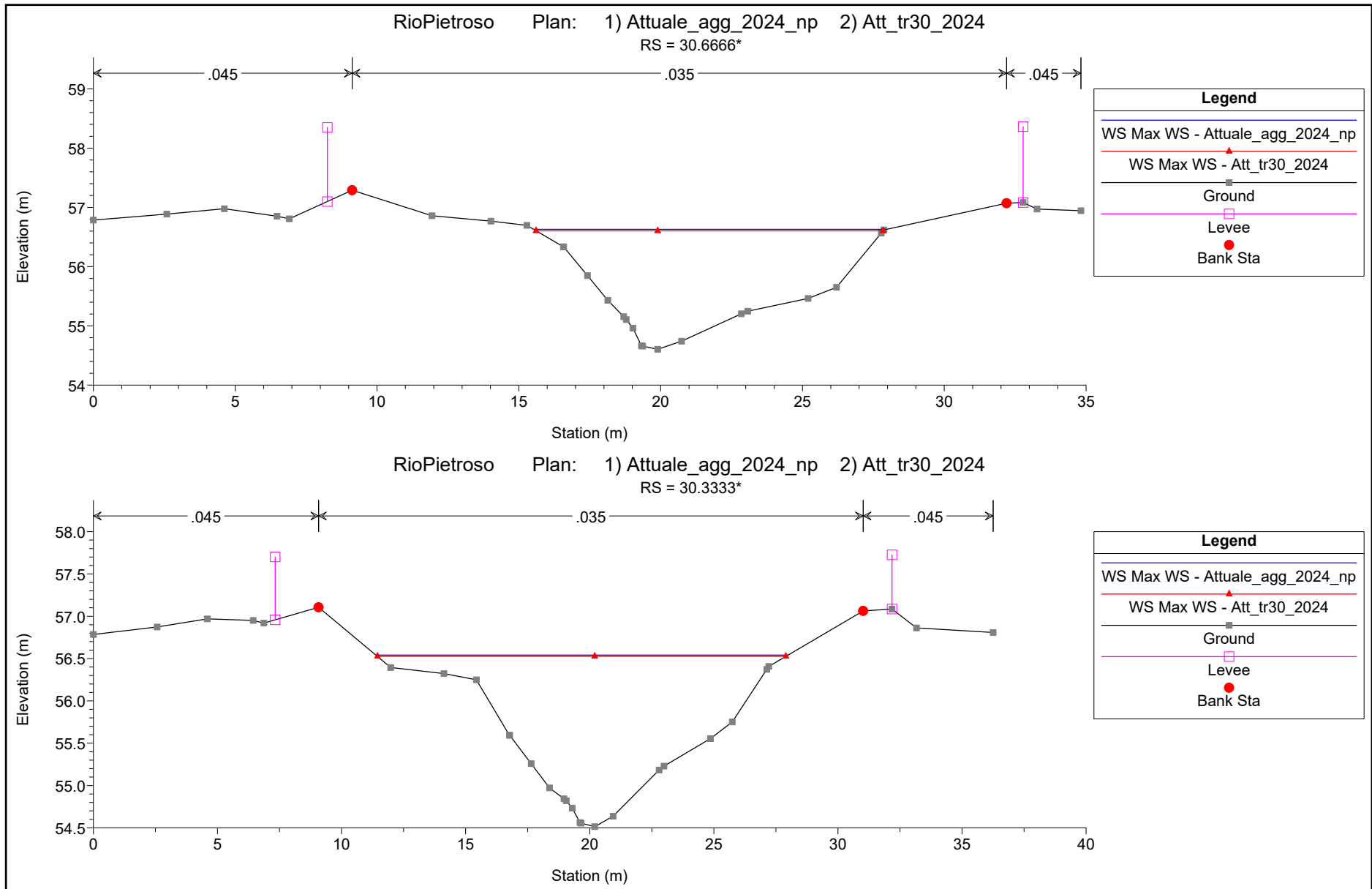


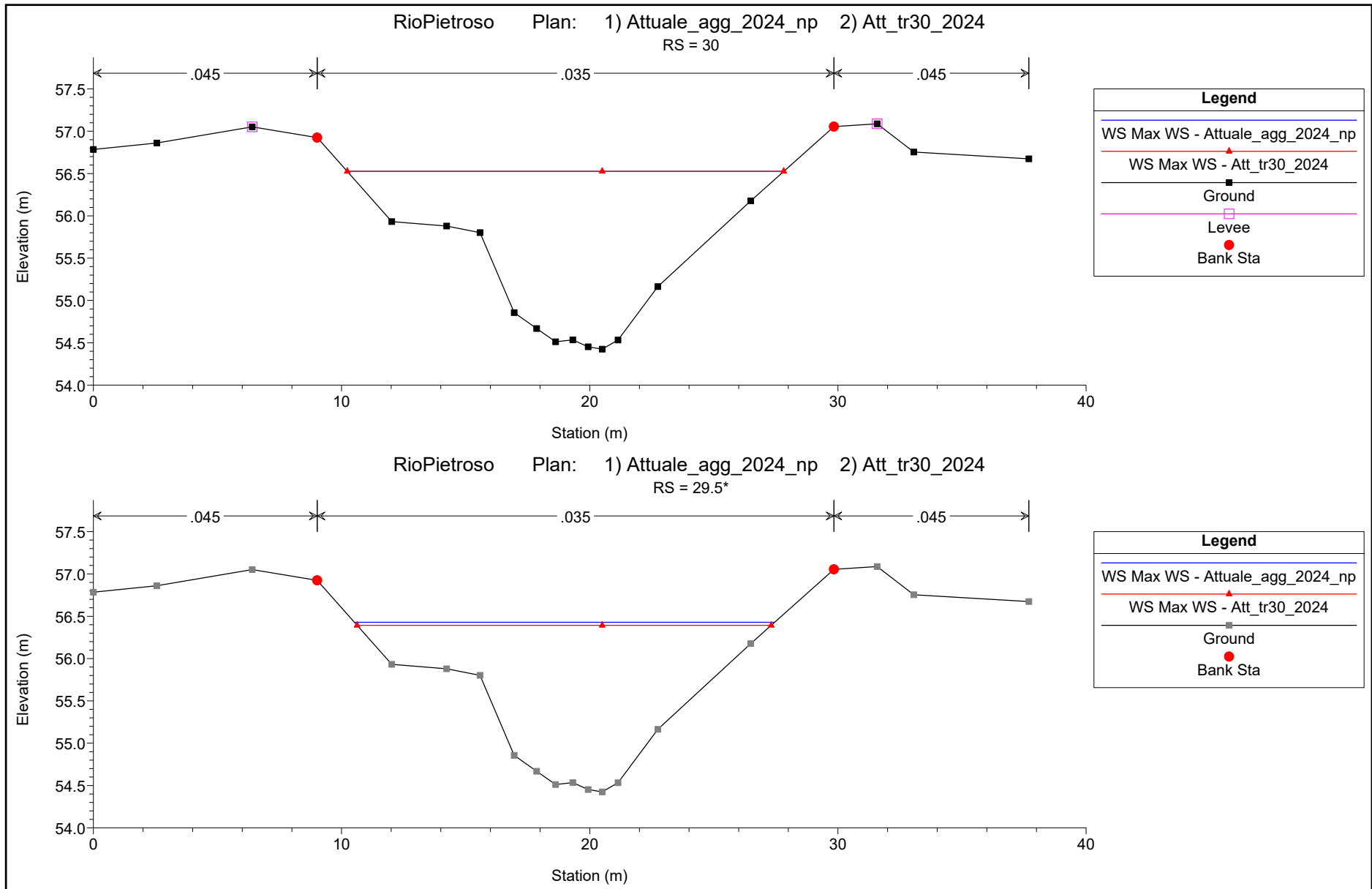


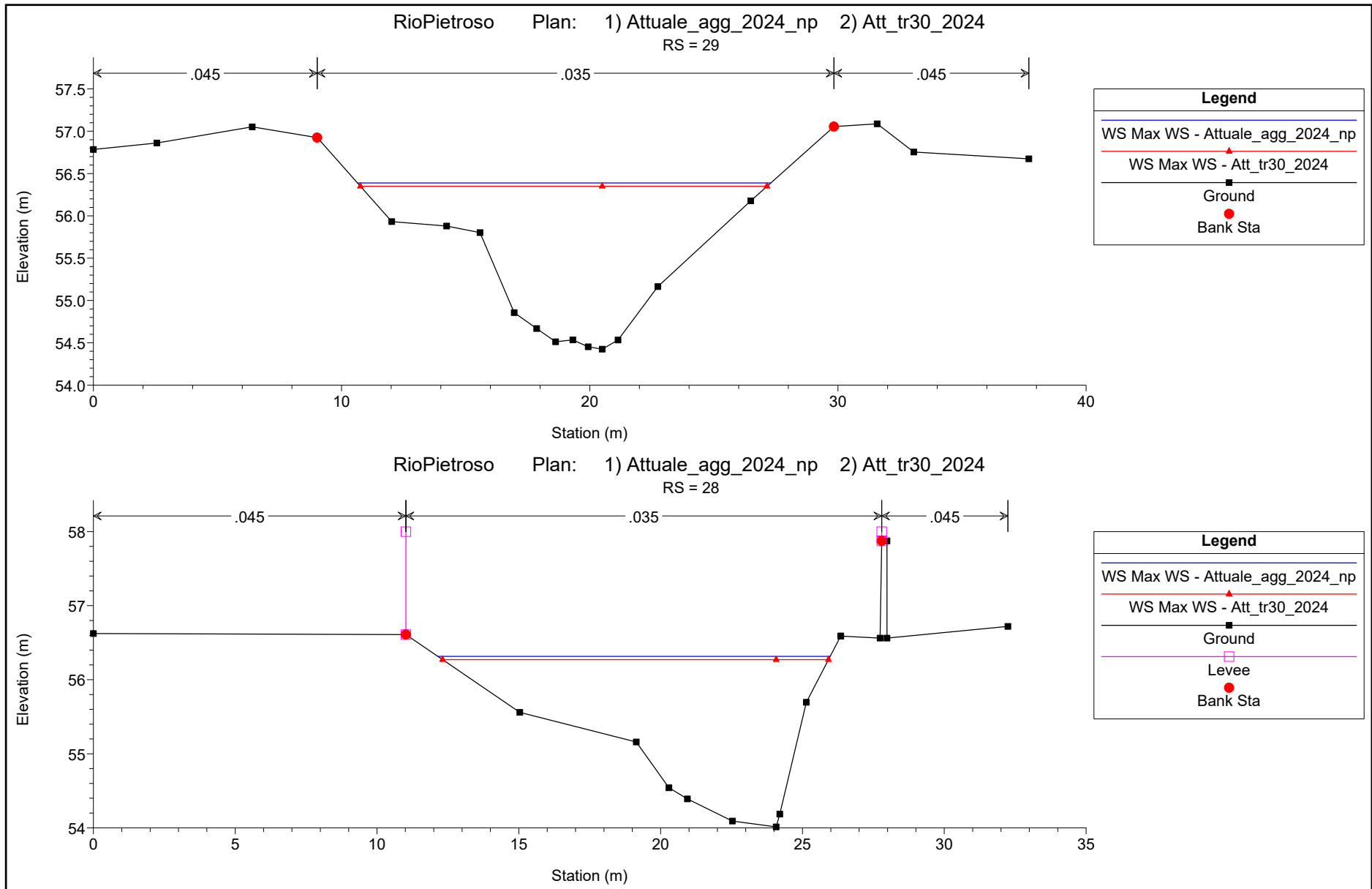


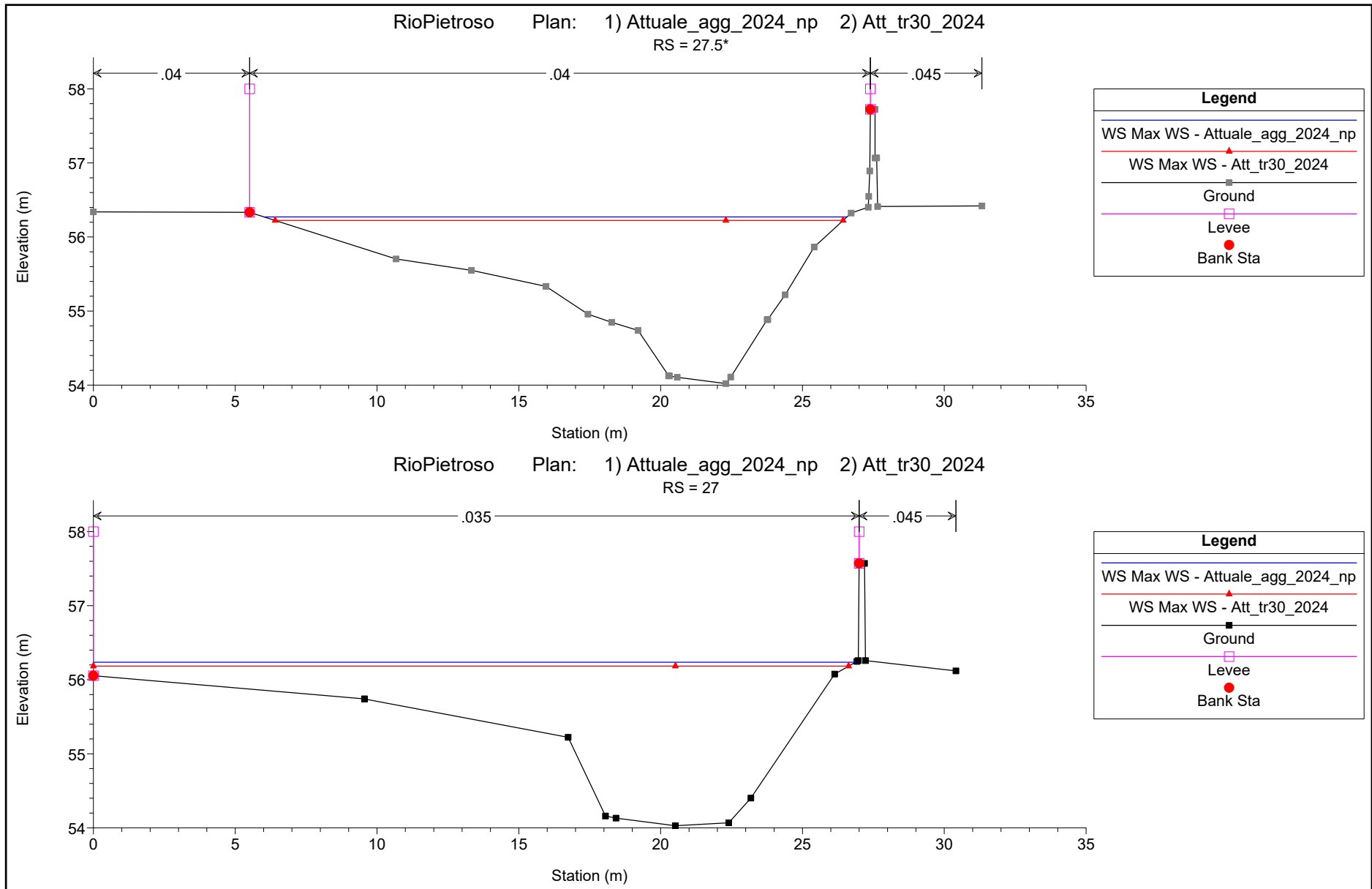


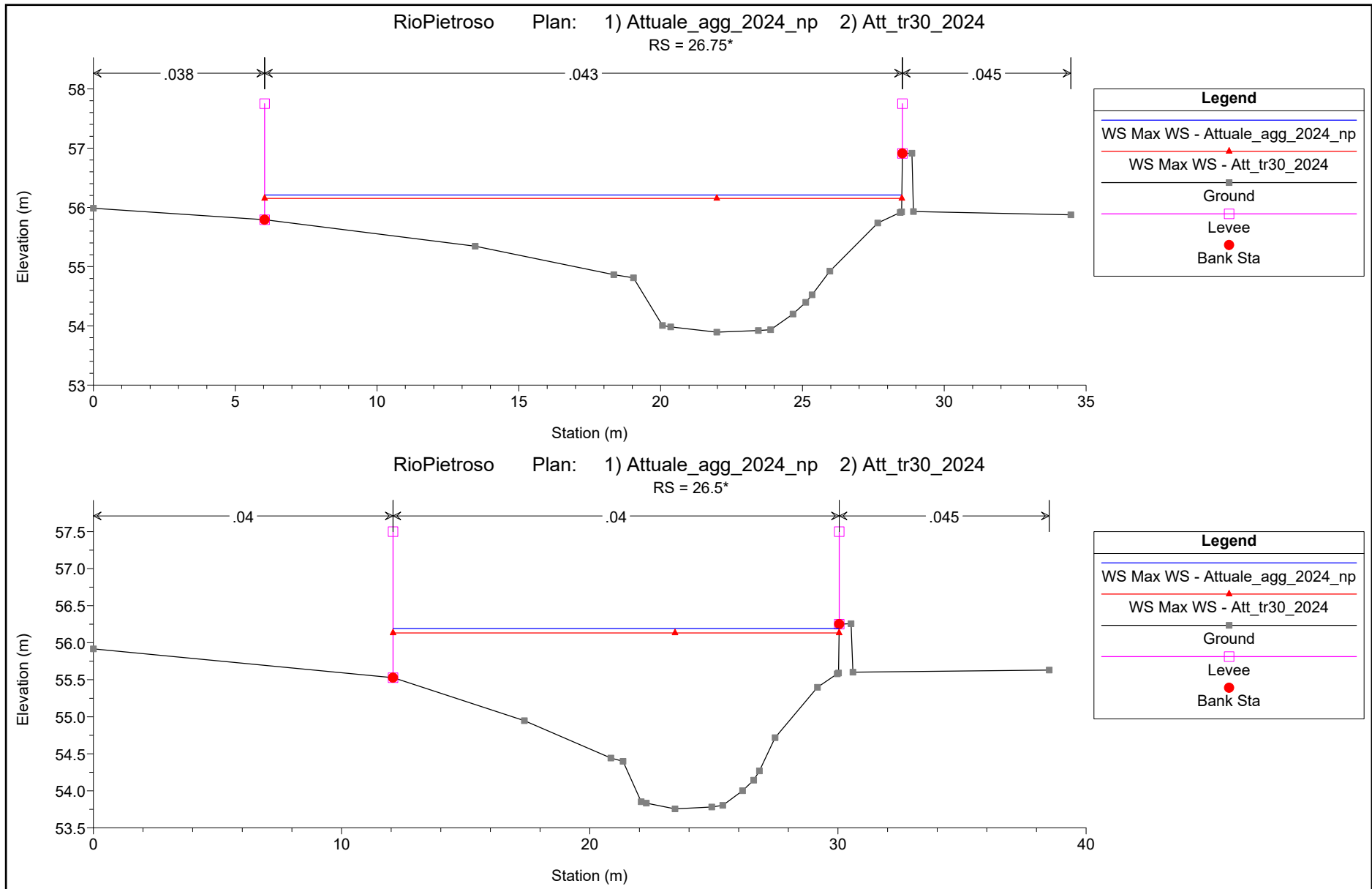


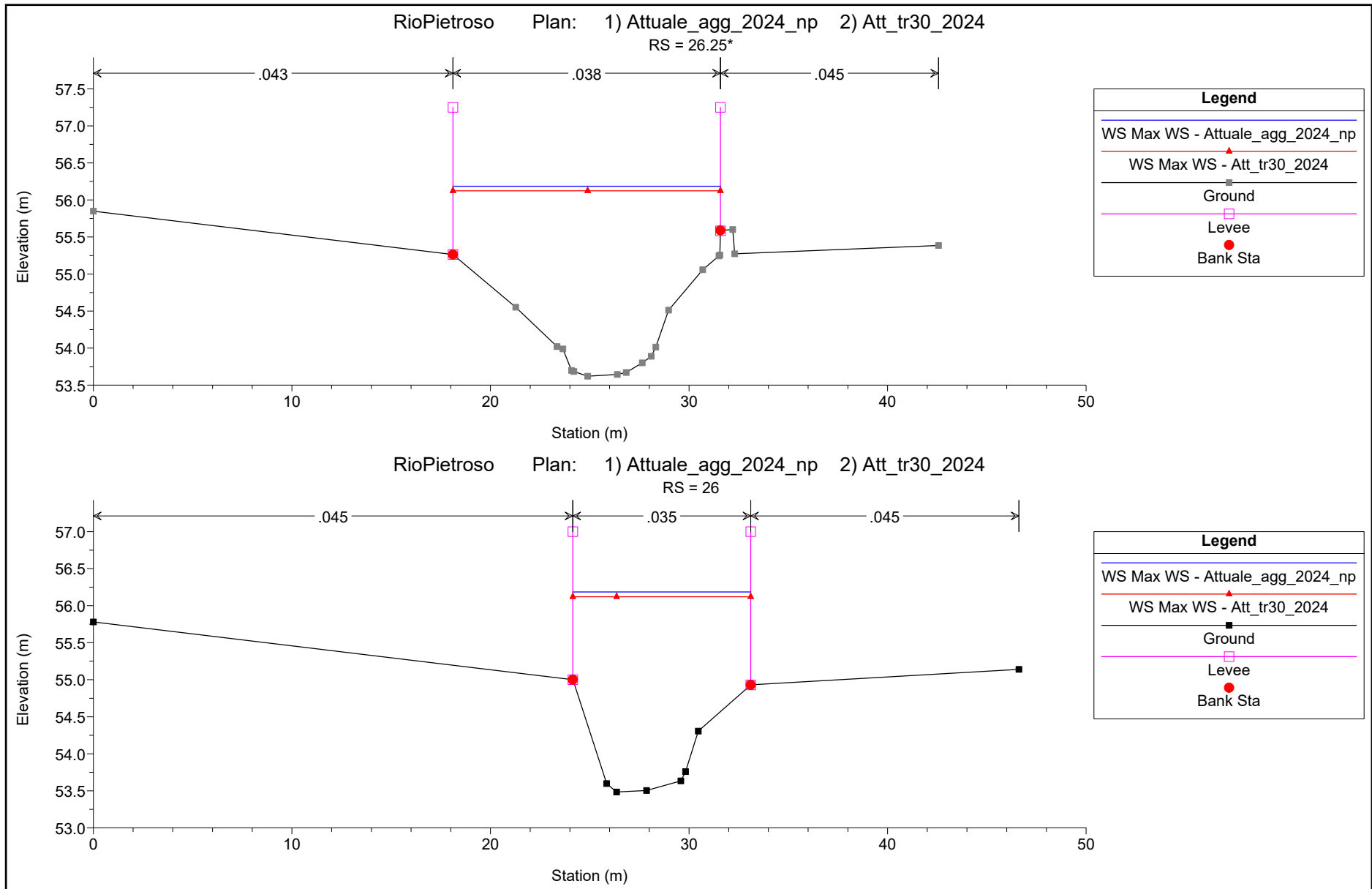


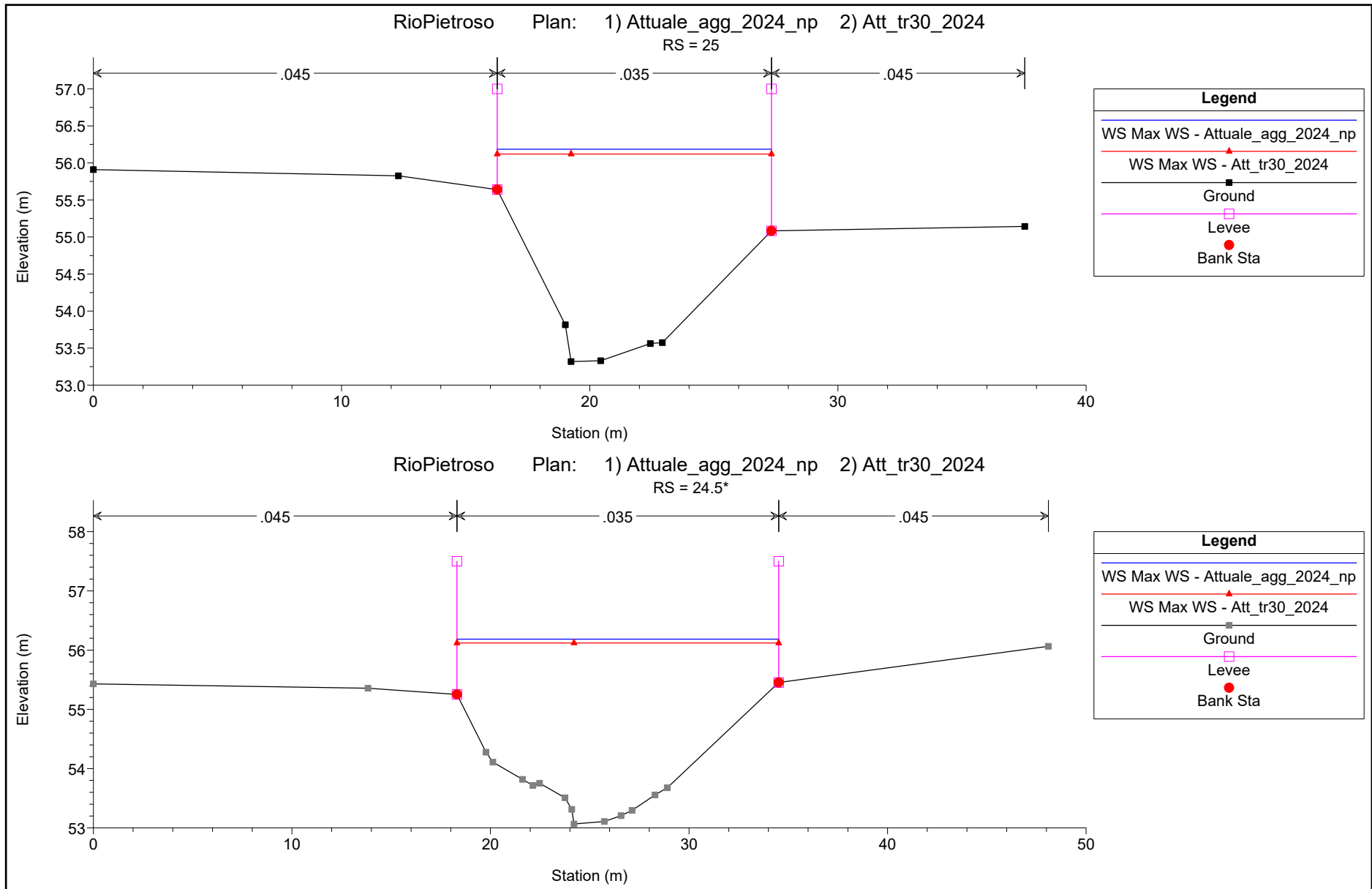




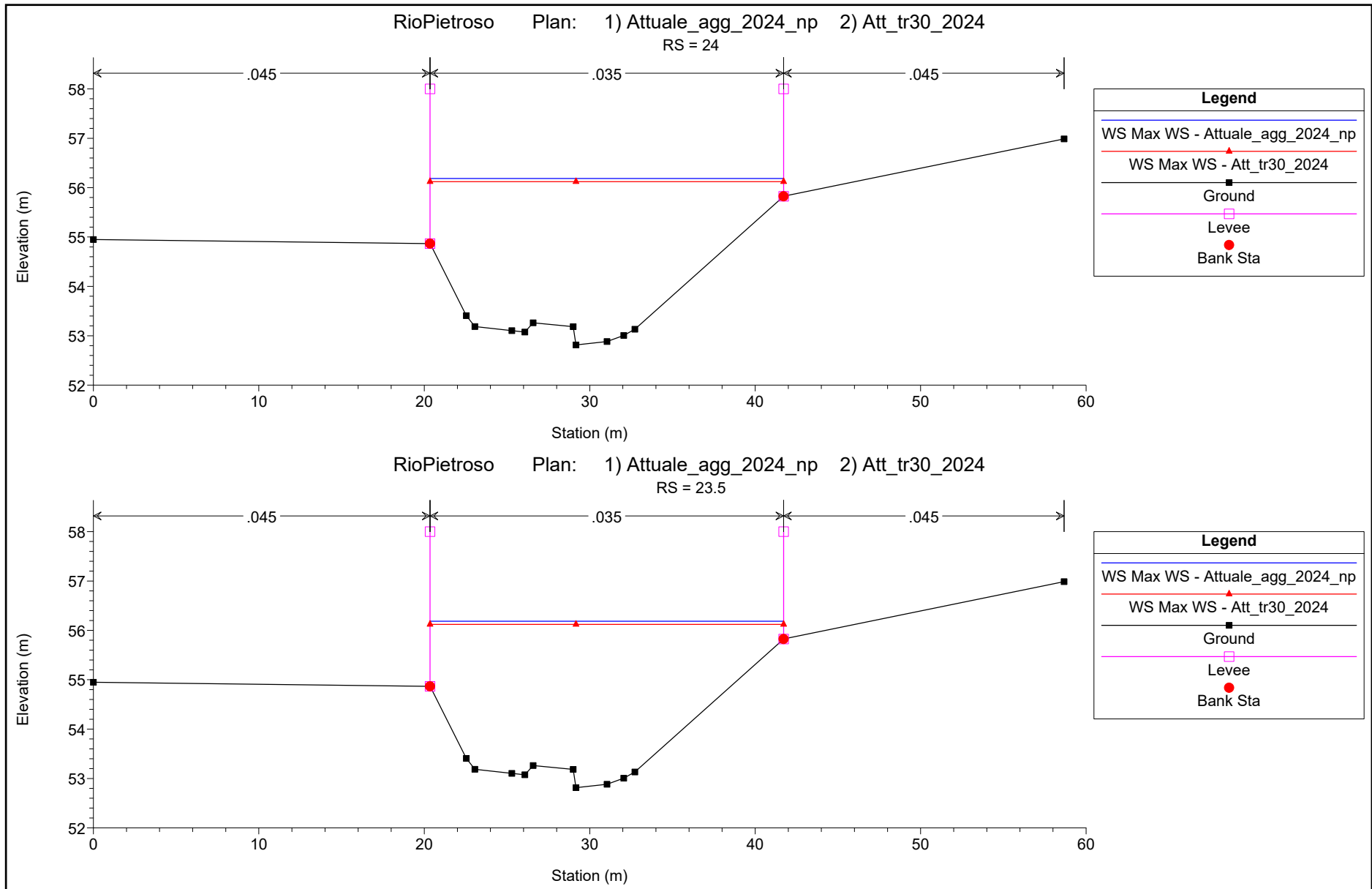


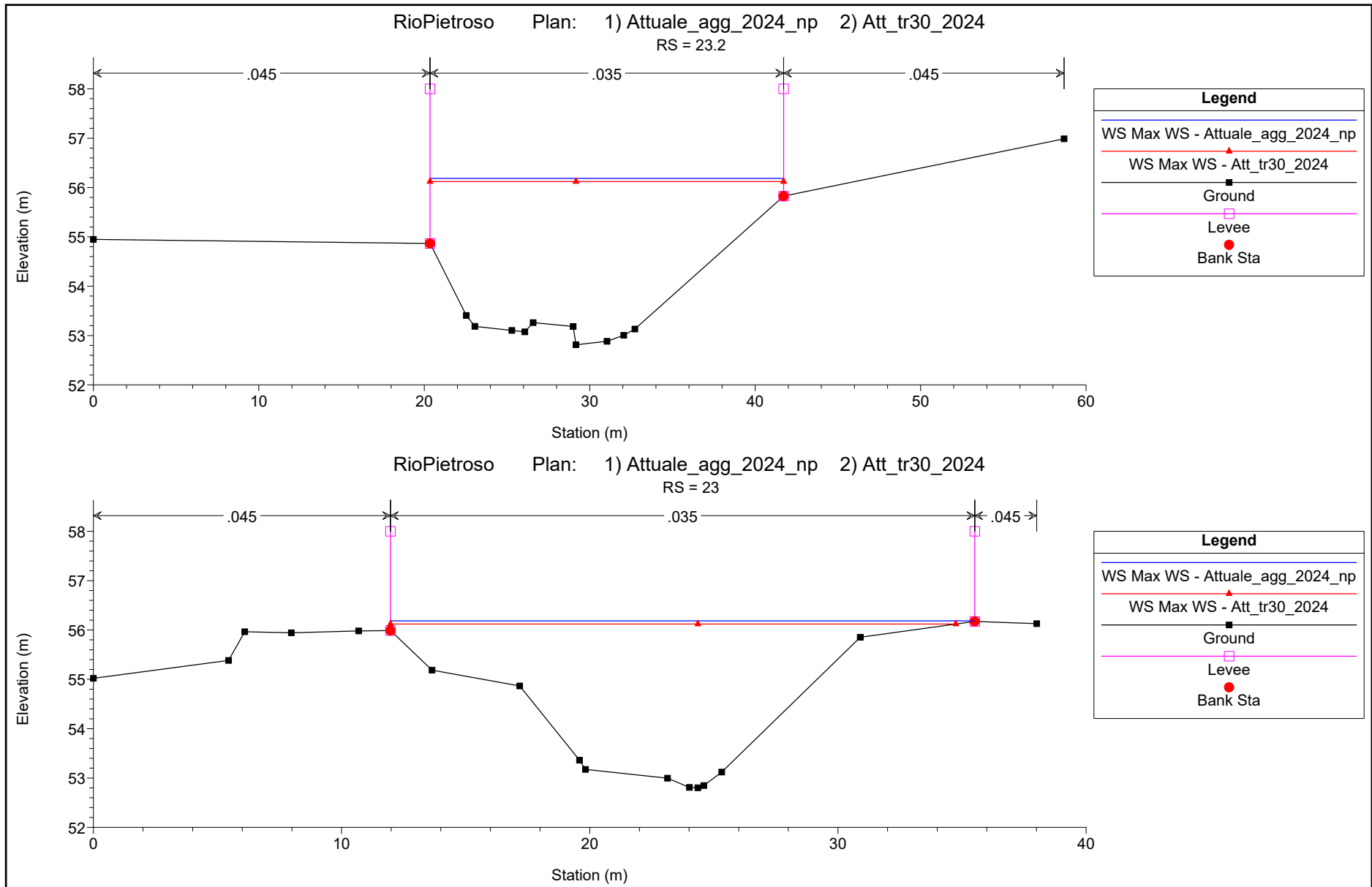


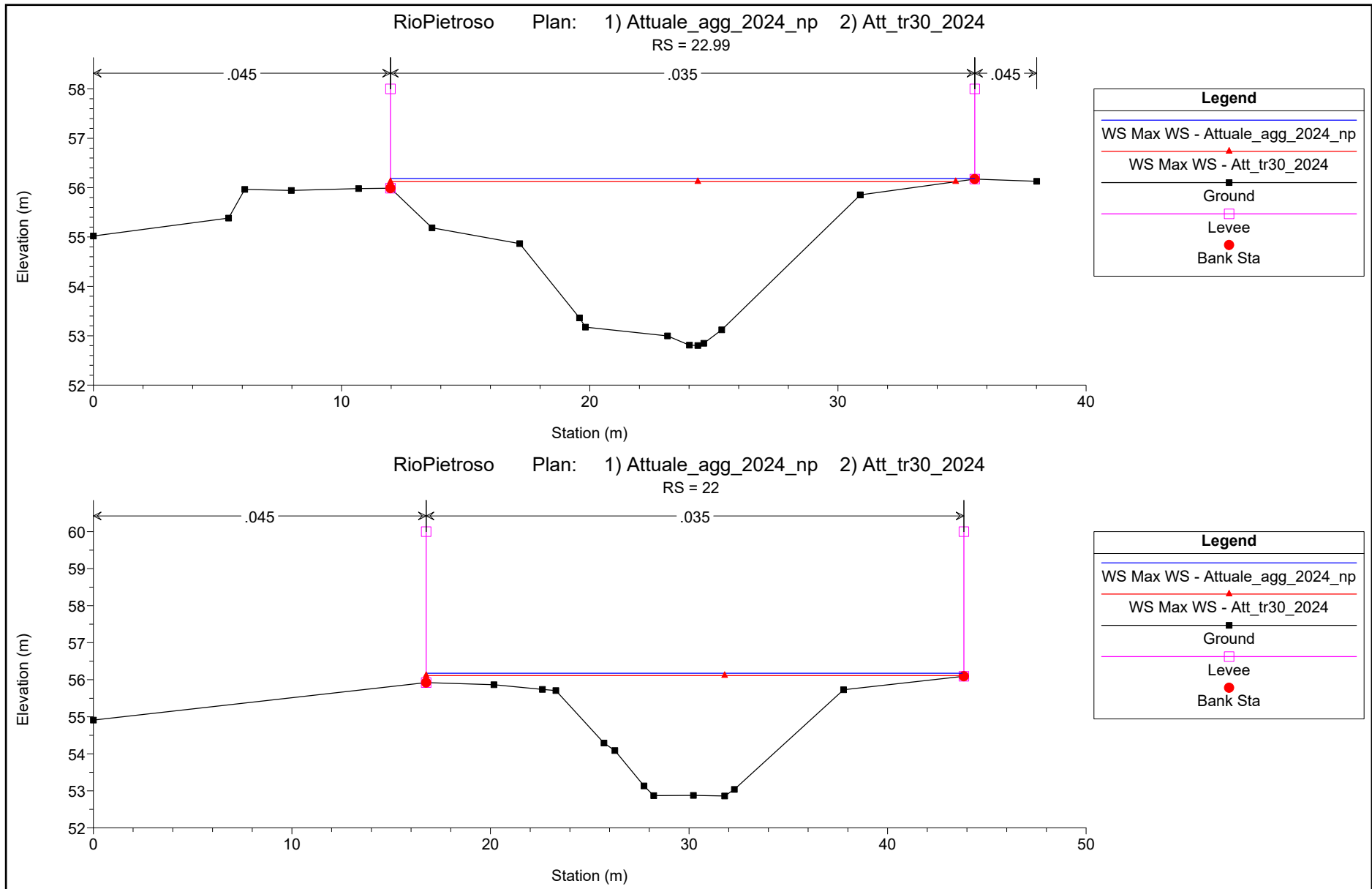


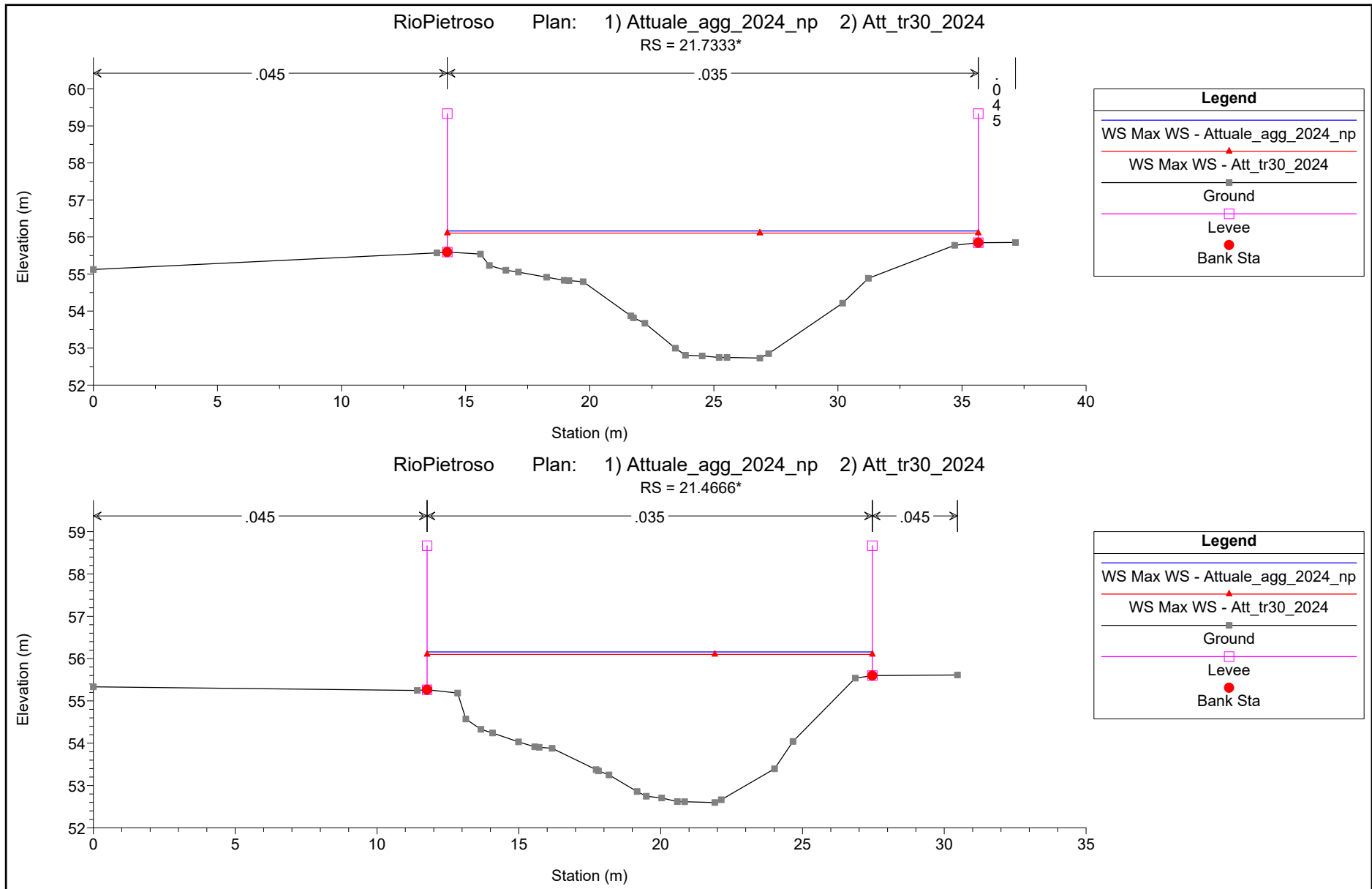


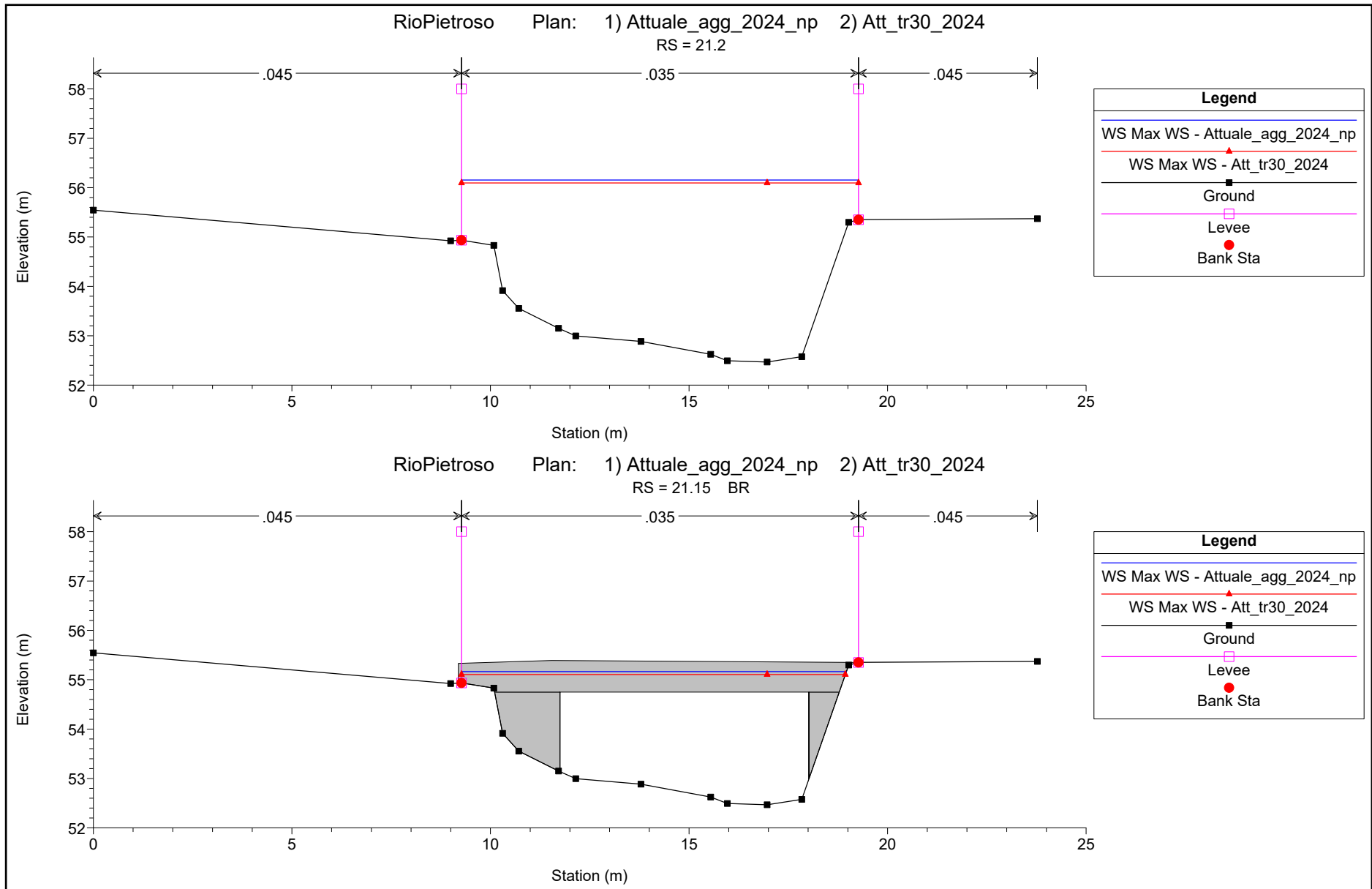


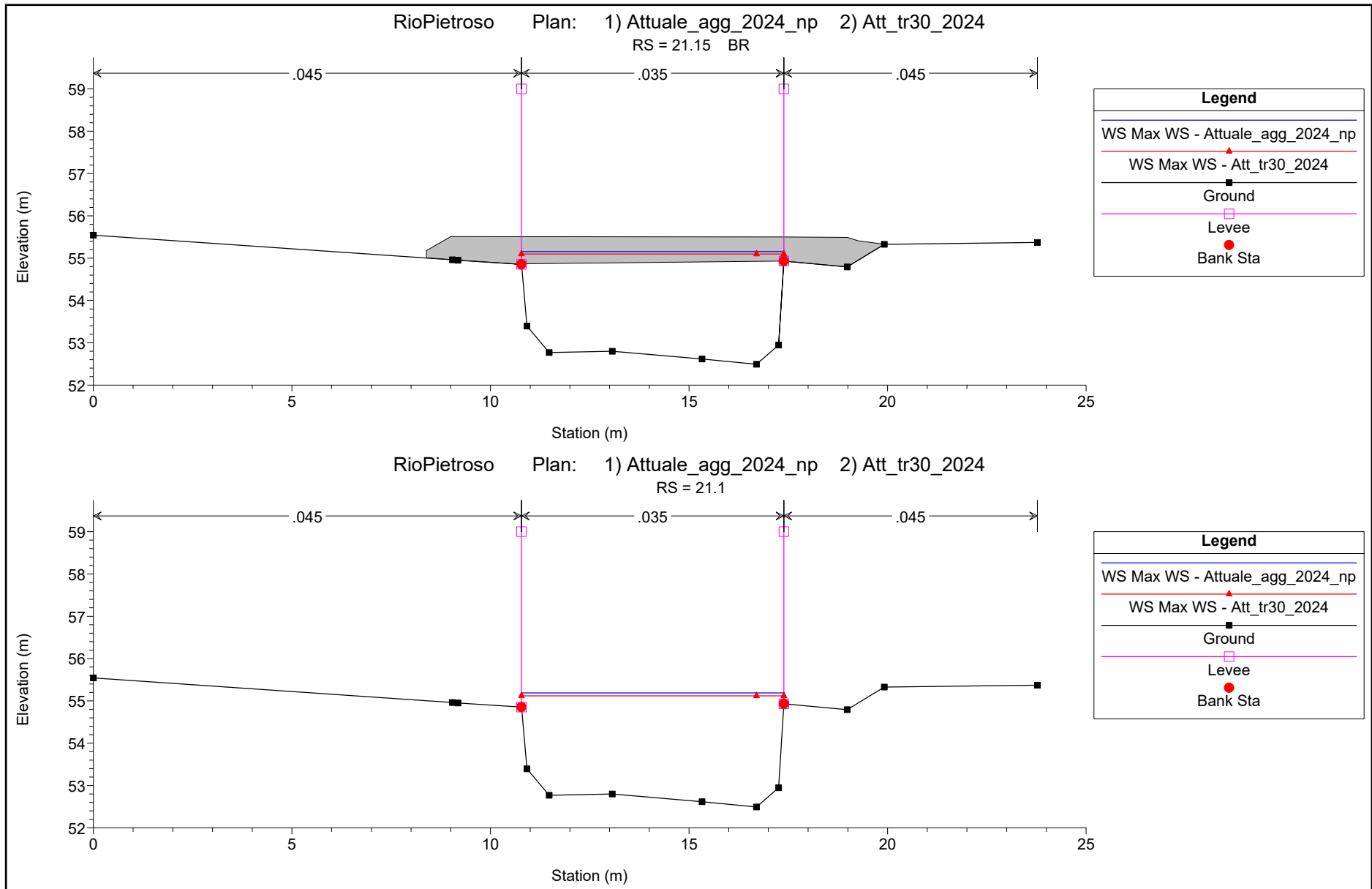


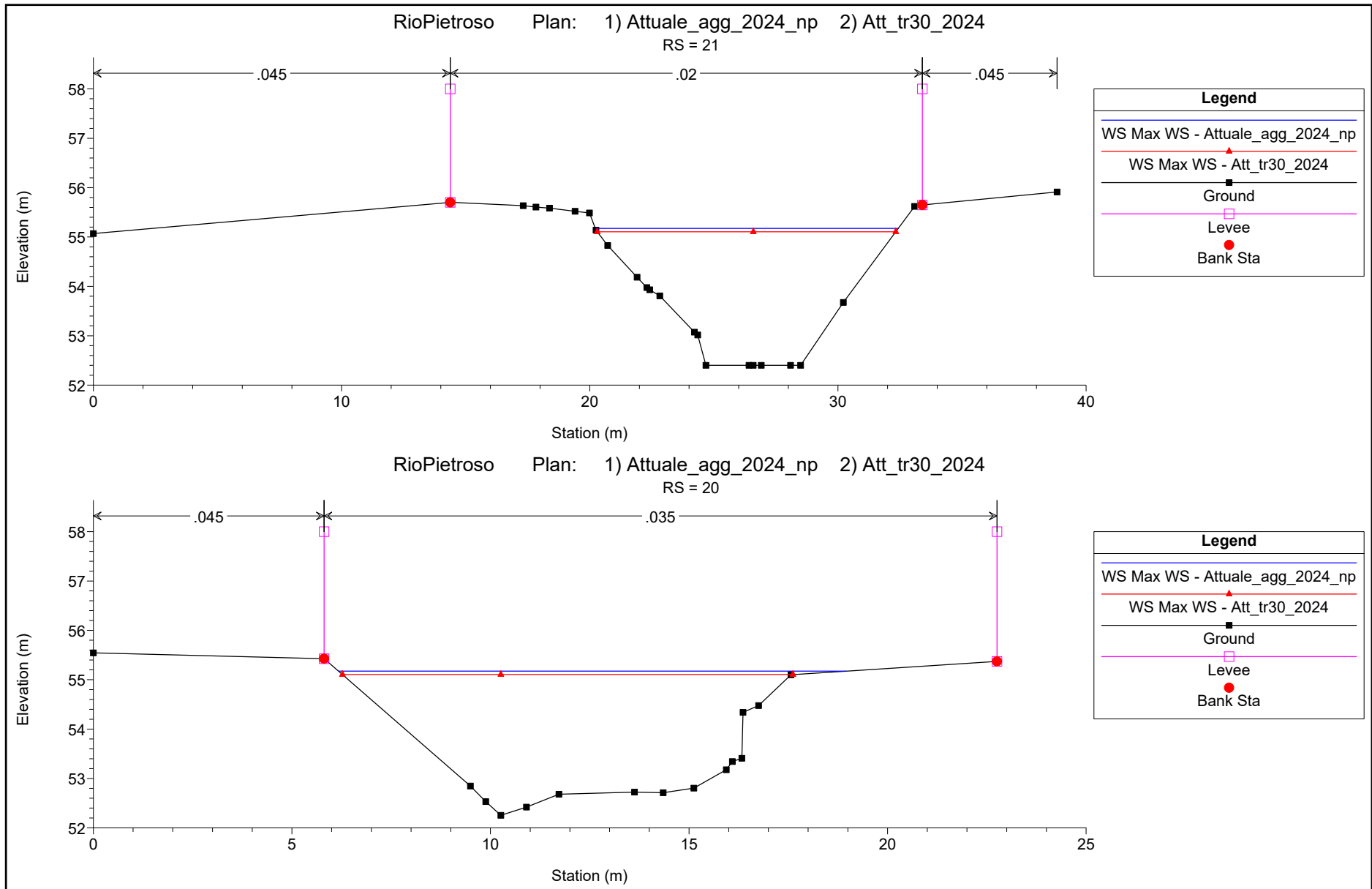




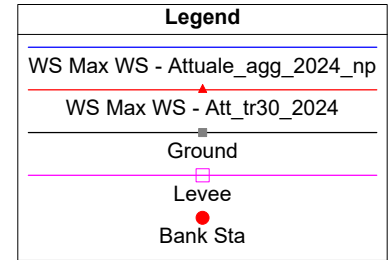
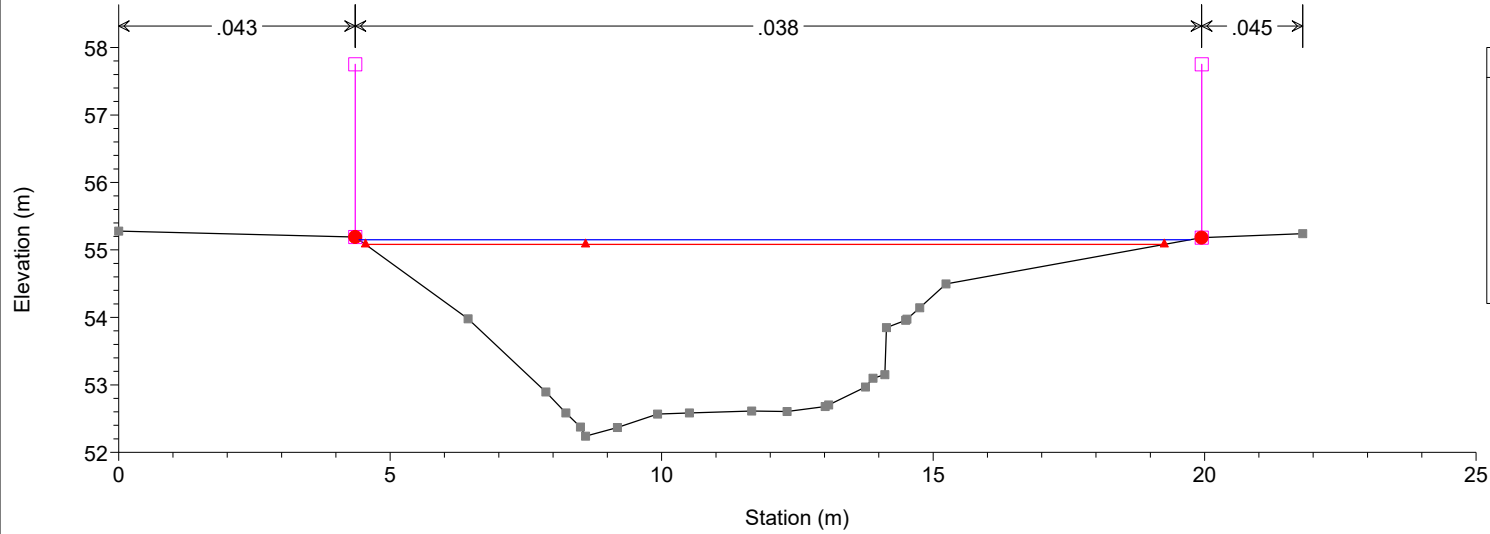




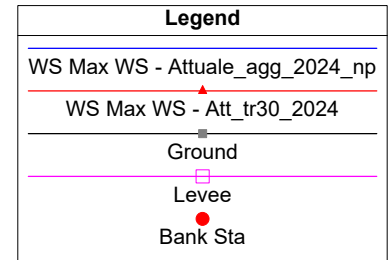
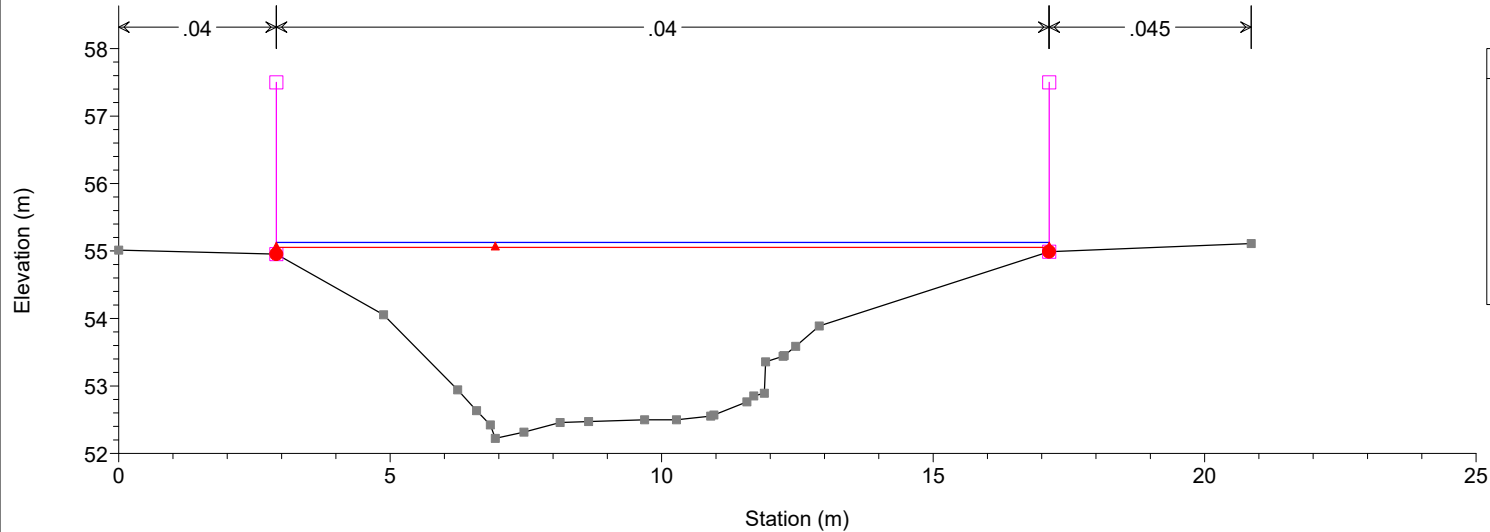




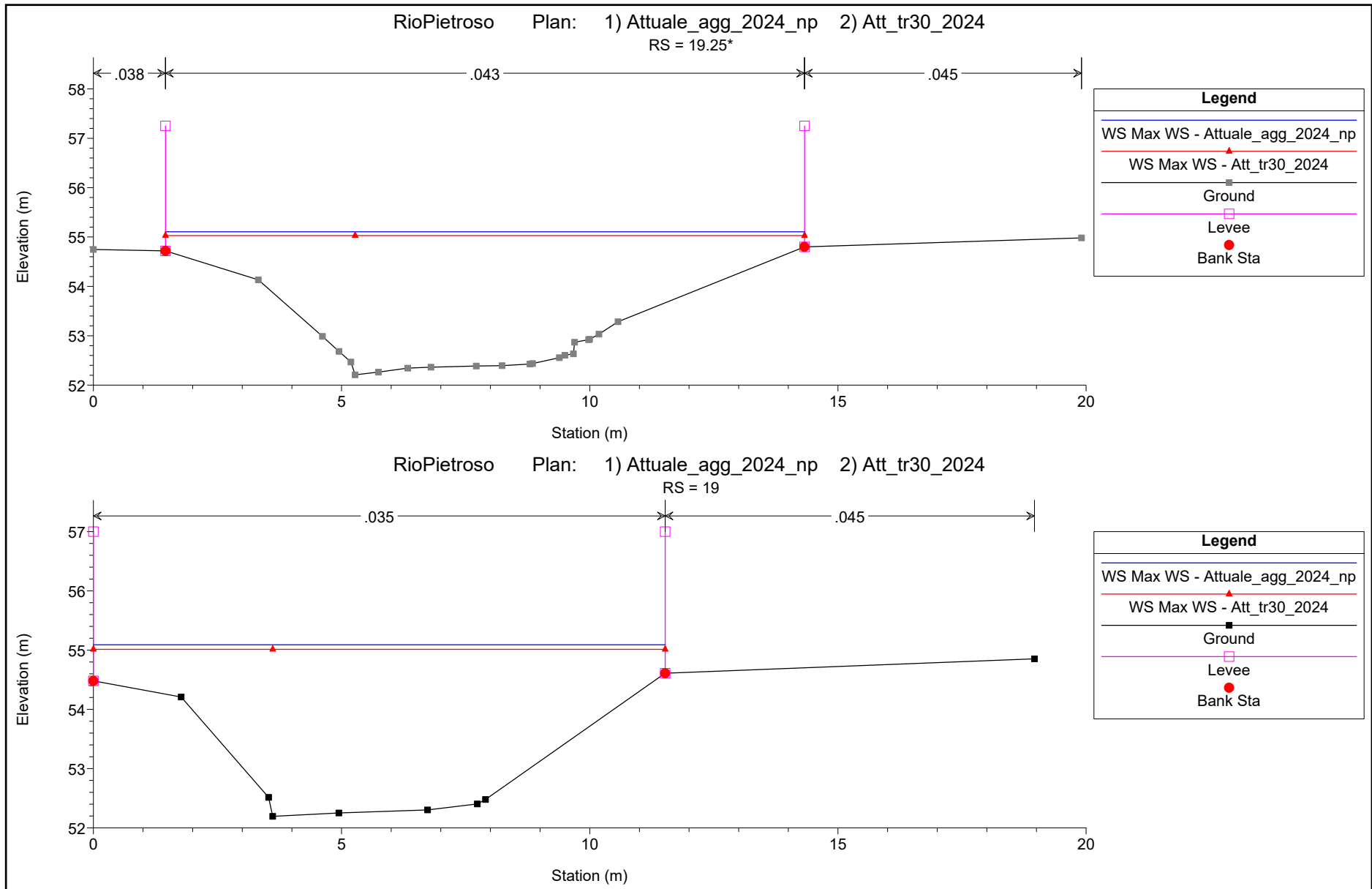
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RS = 19.75\*

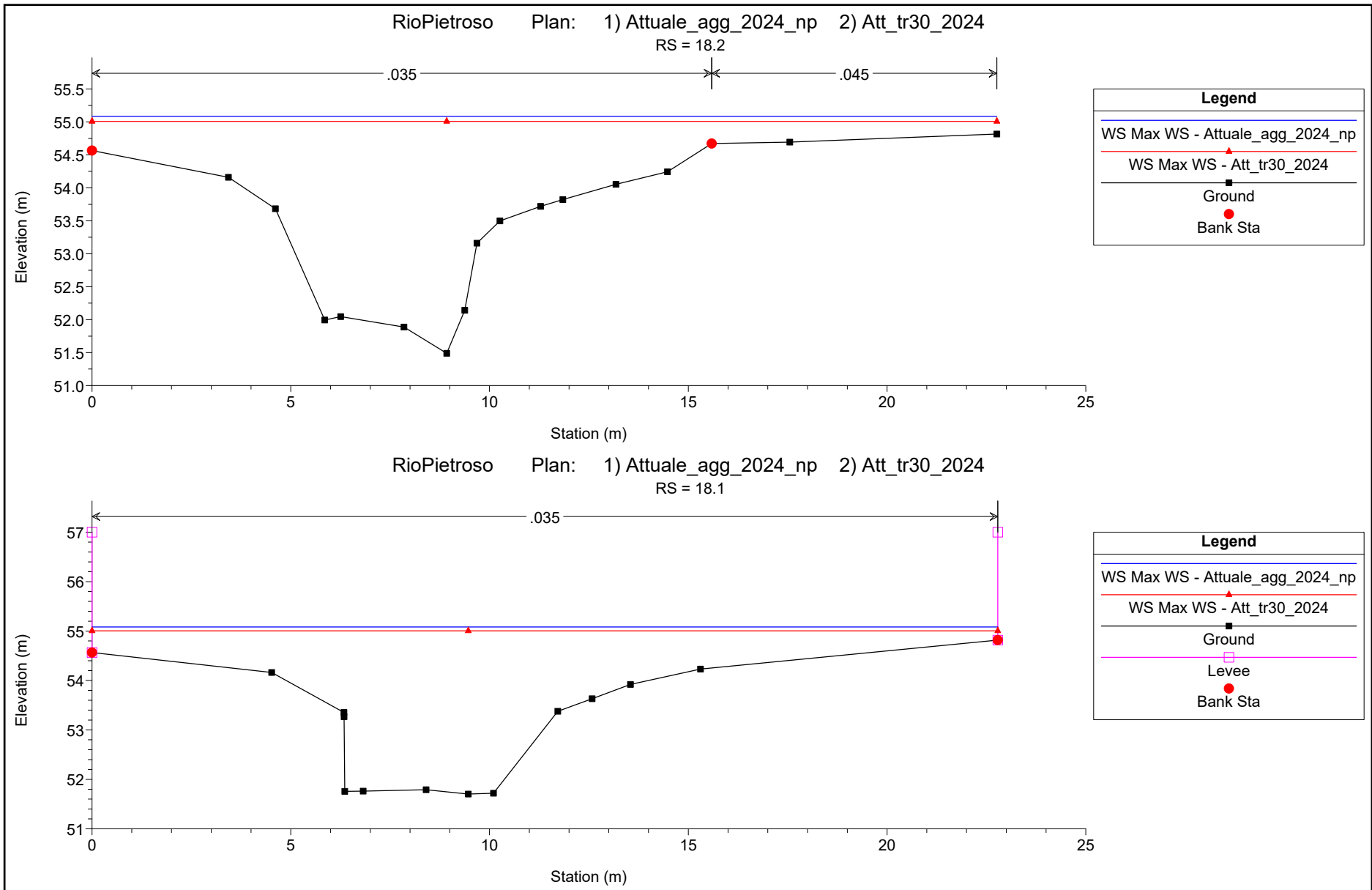


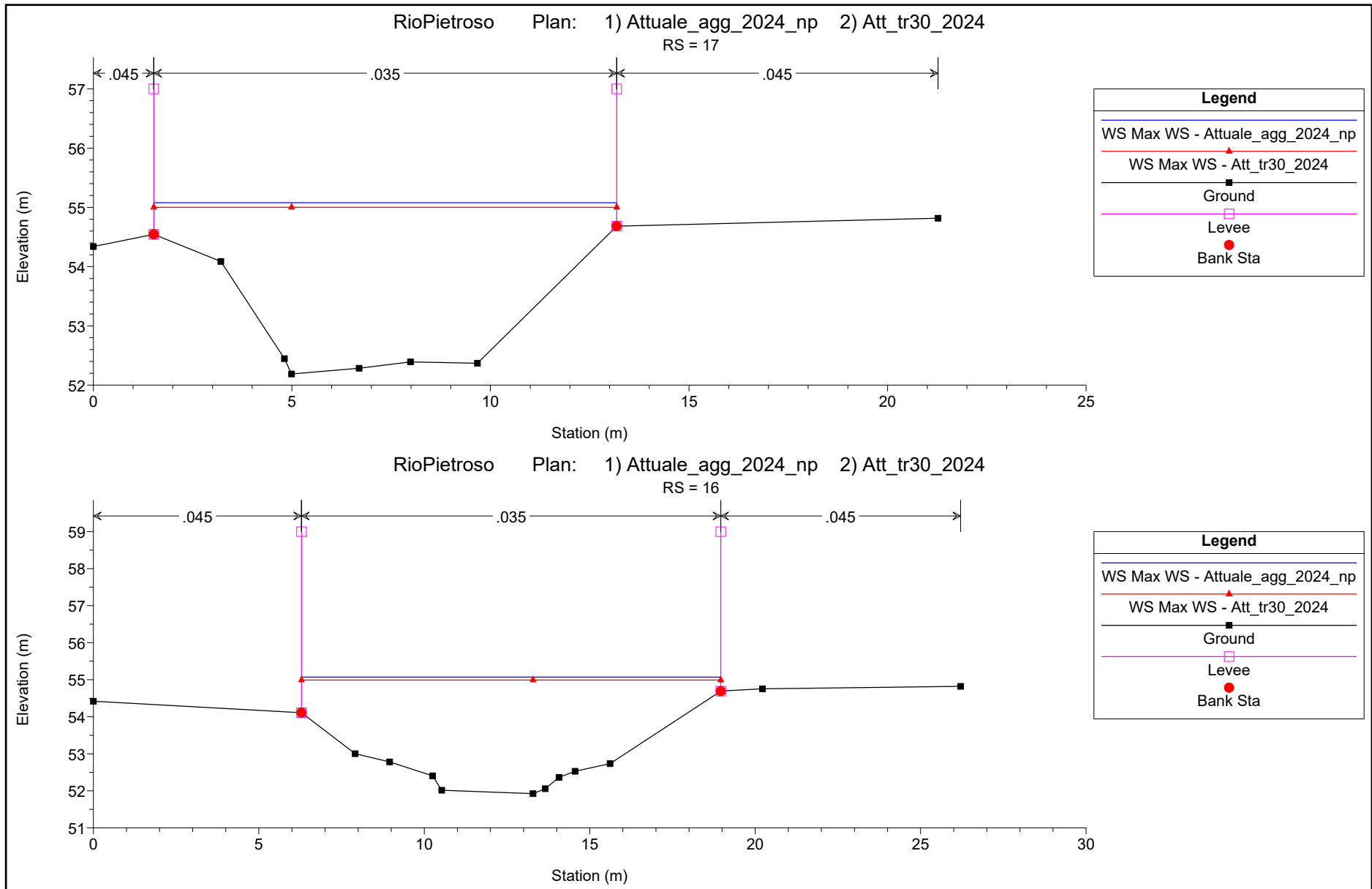
RioPietroso Plan: 1) Attuale\_agg\_2024\_np 2) Att\_tr30\_2024  
RS = 19.5\*

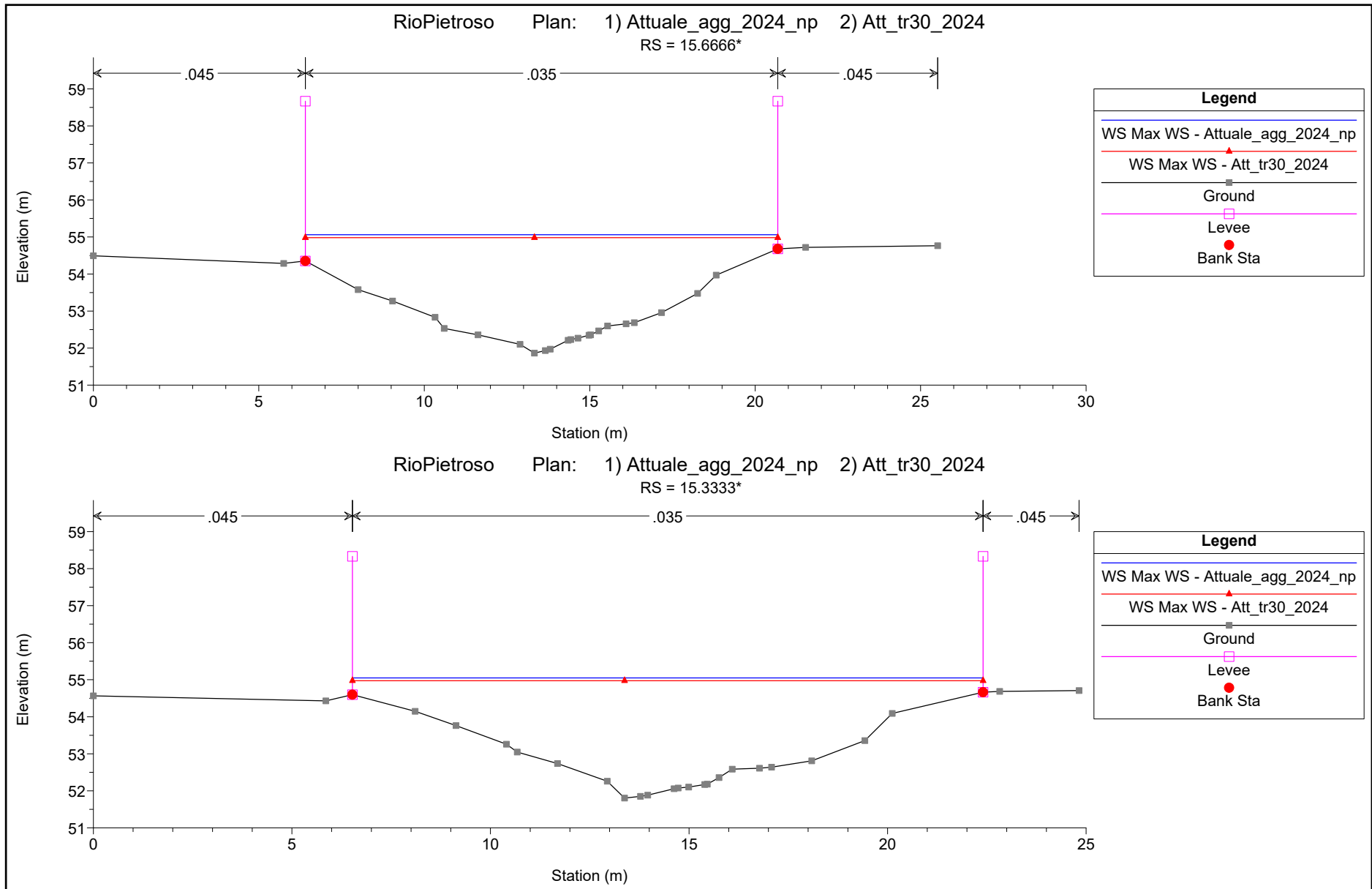


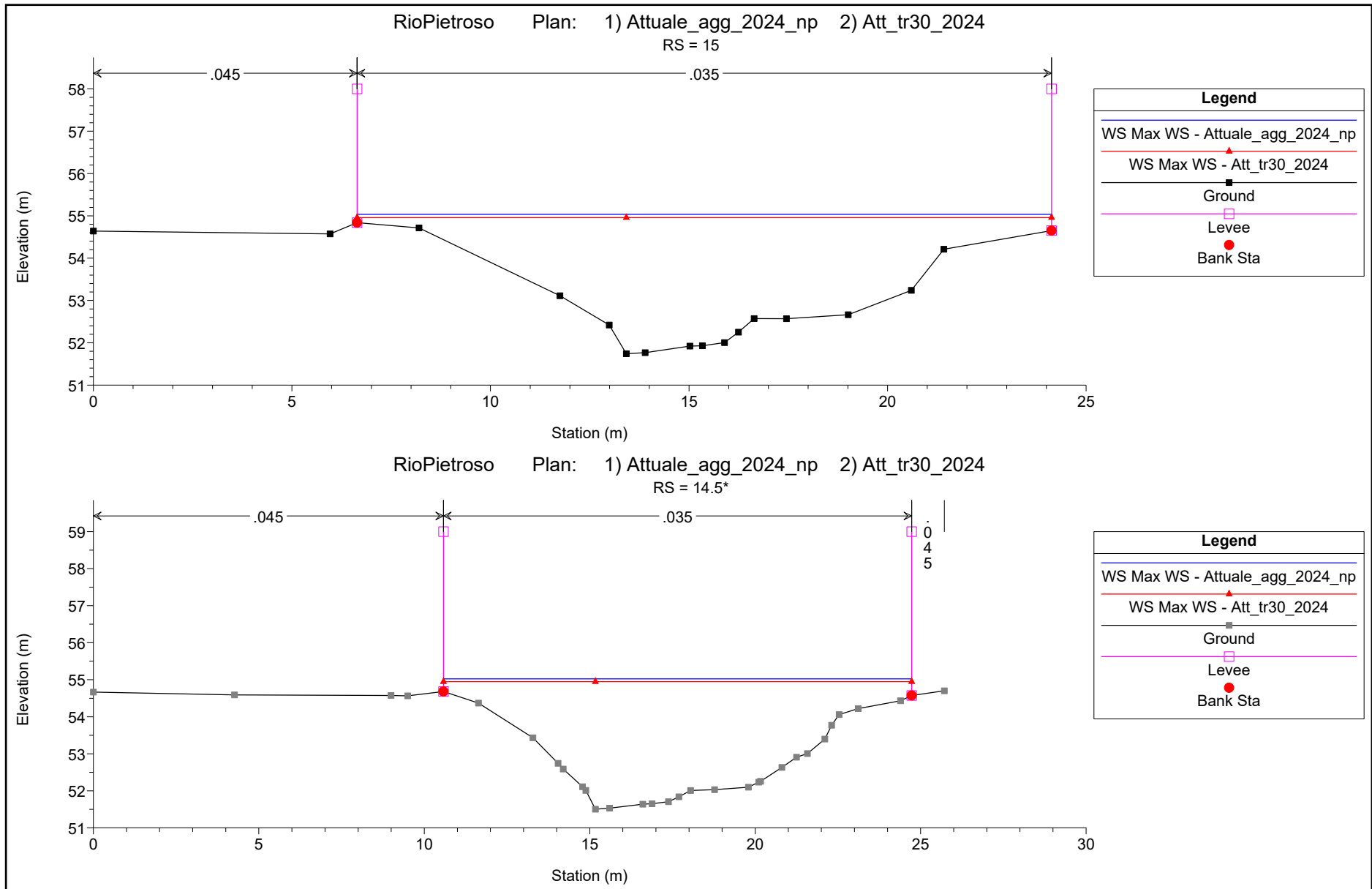


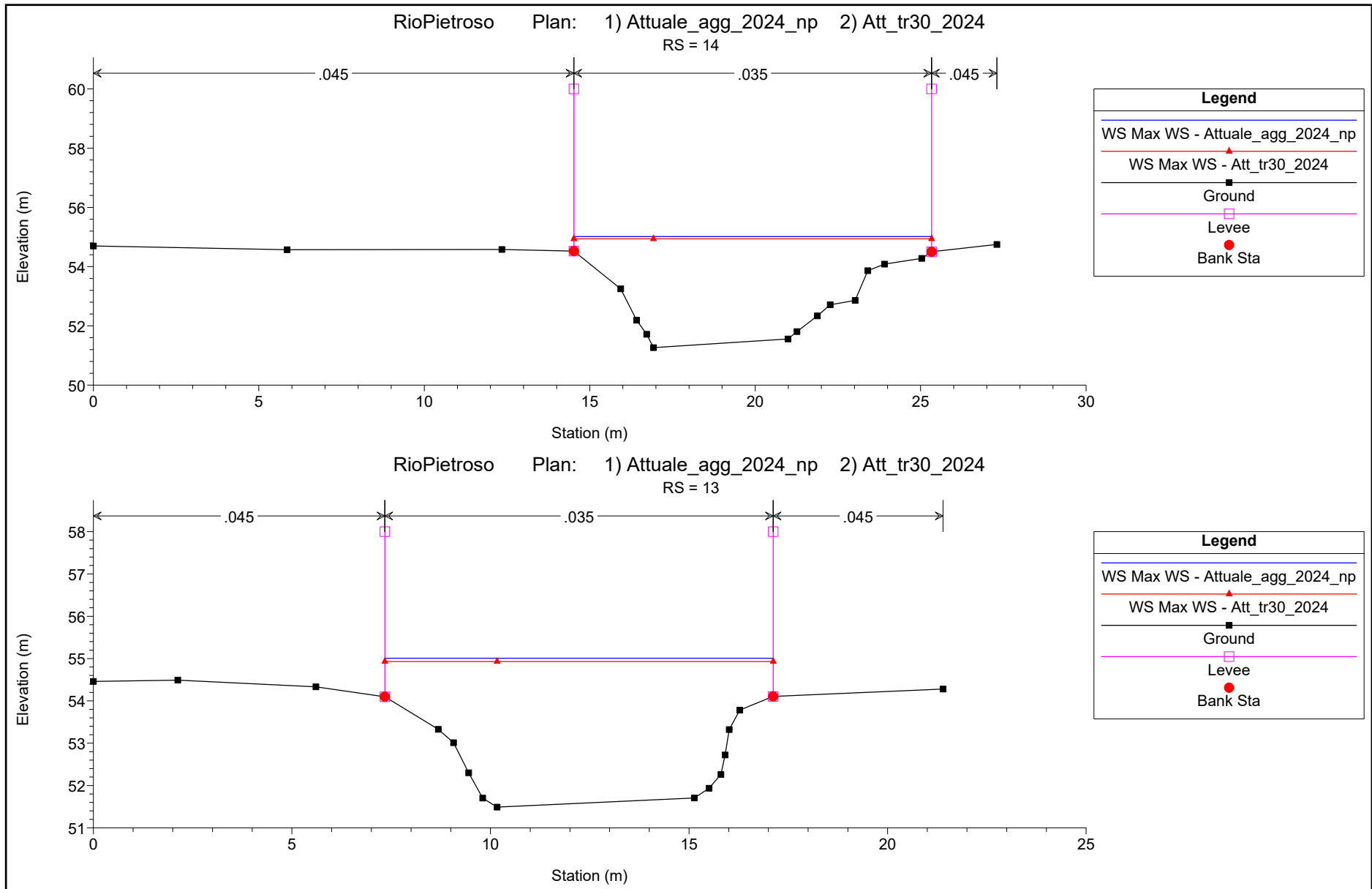


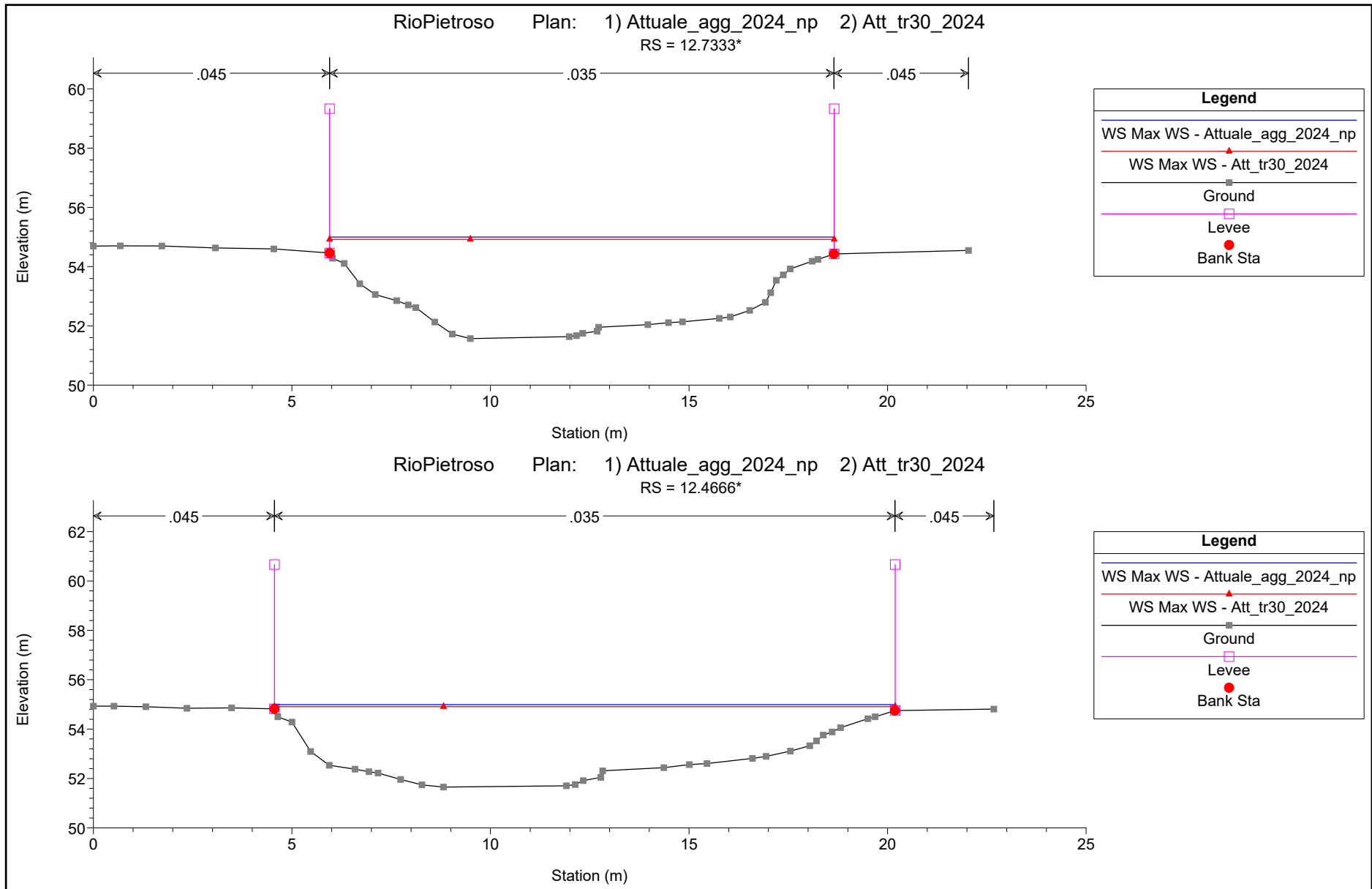




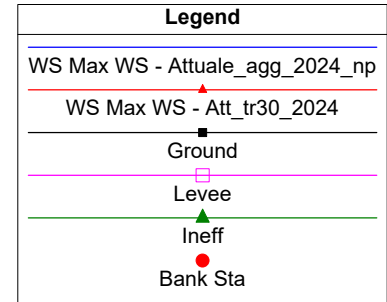
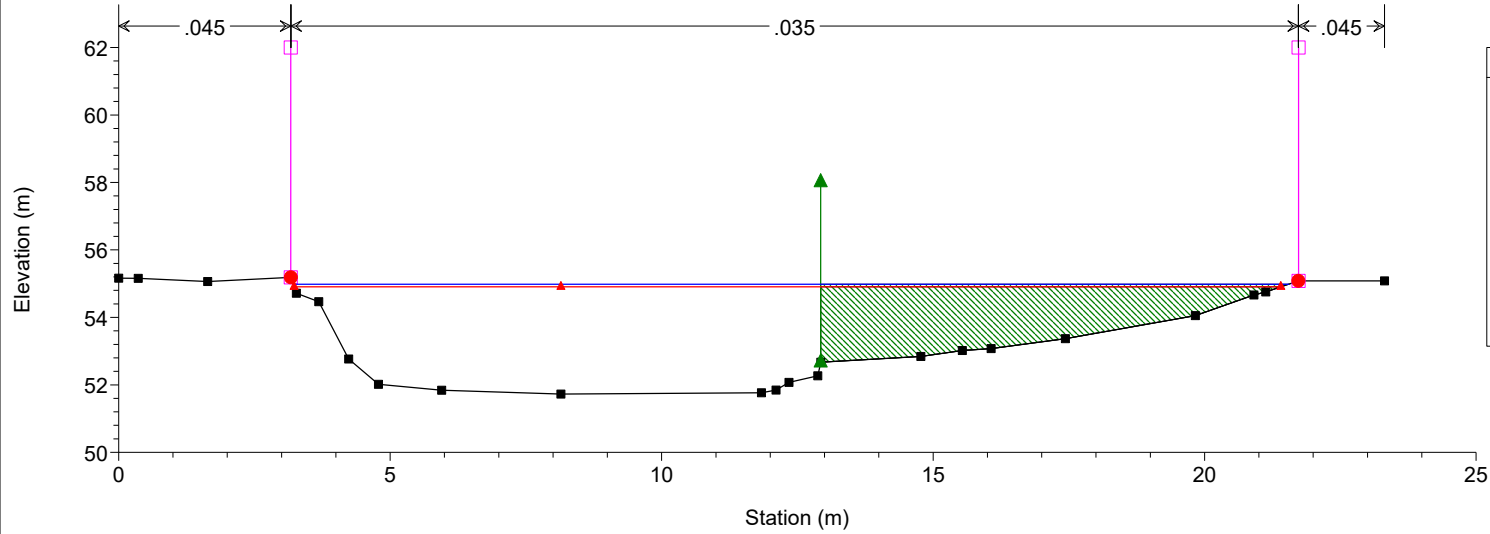




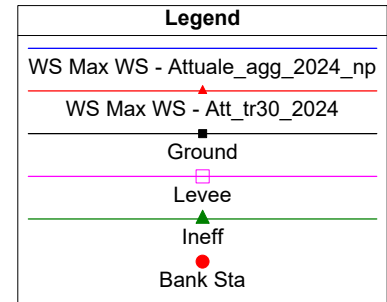
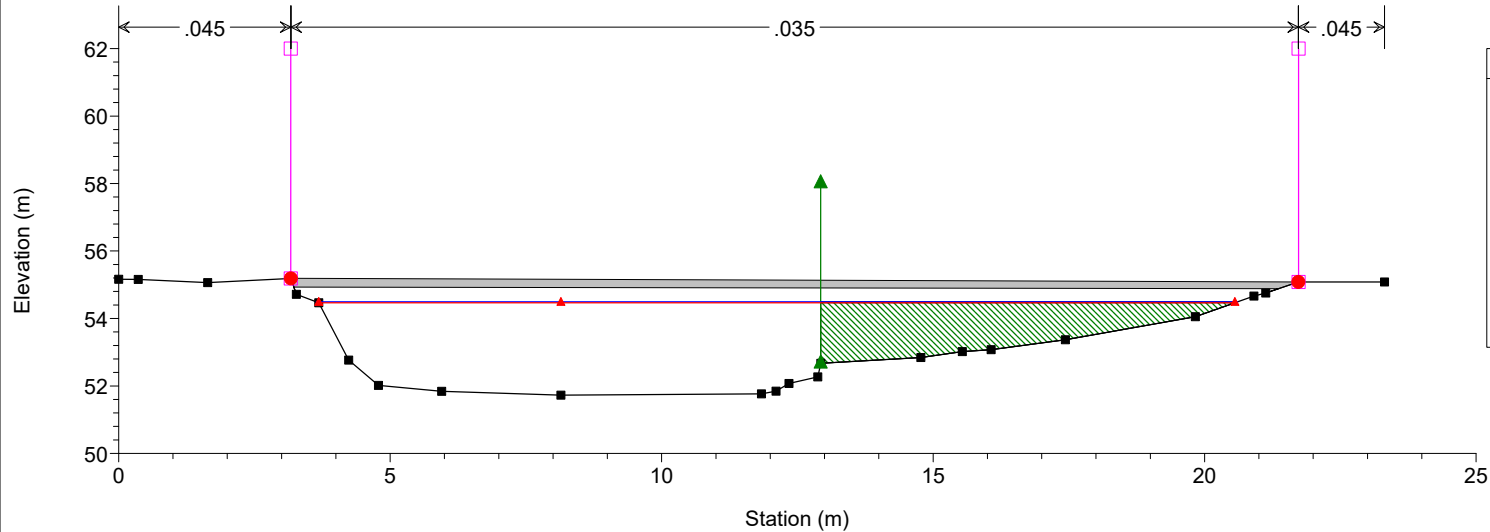




RioPietroso Plan: 1) Attuale\_agg\_2024\_np 2) Att\_tr30\_2024  
RS = 12.2

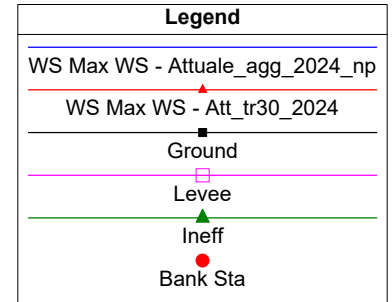
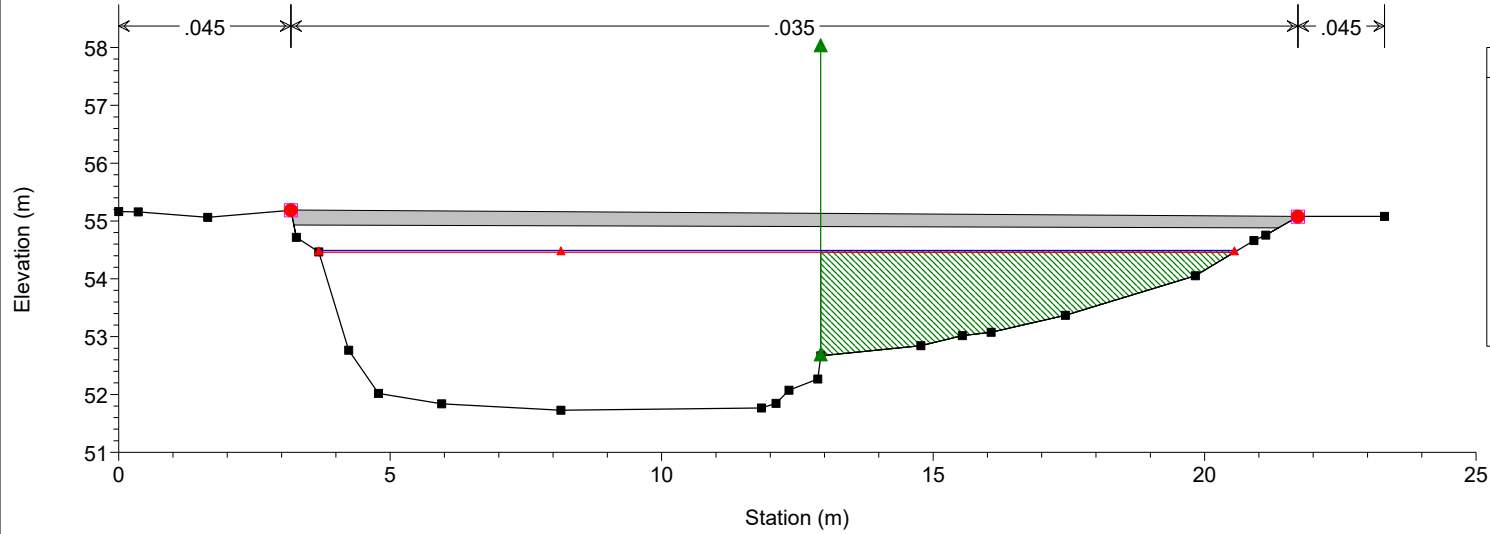


RioPietroso Plan: 1) Attuale\_agg\_2024\_np 2) Att\_tr30\_2024  
RS = 12.15 BR

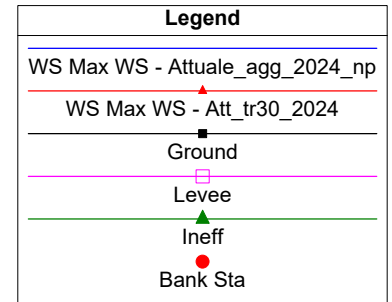
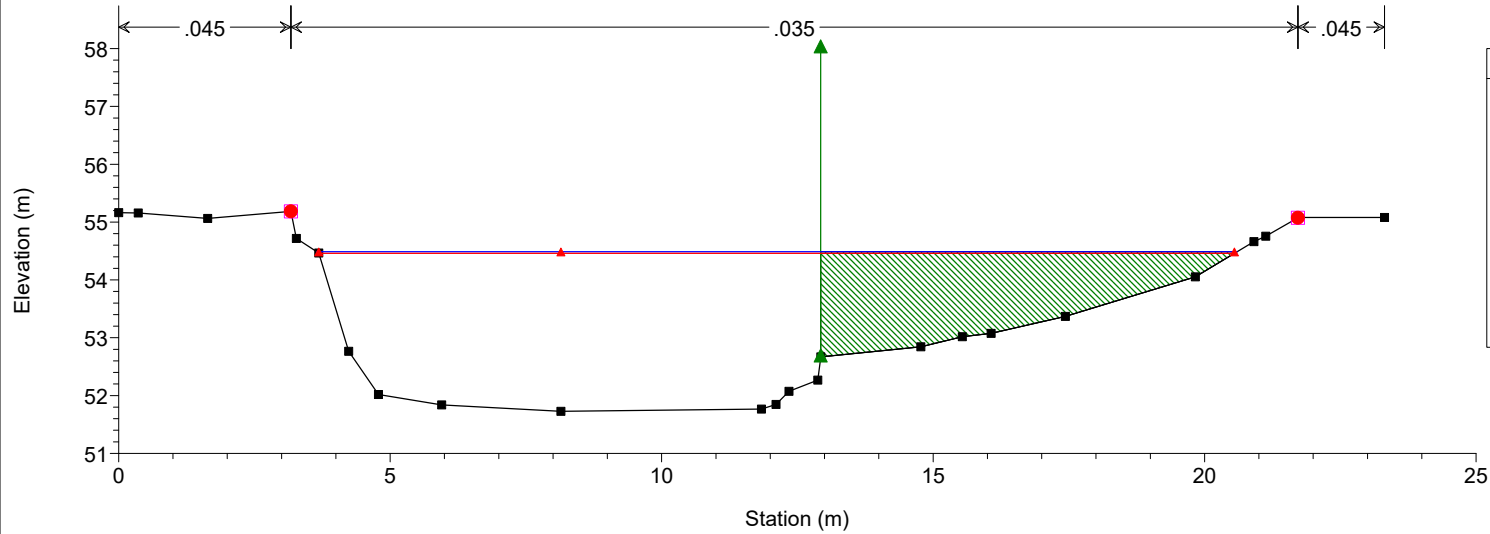




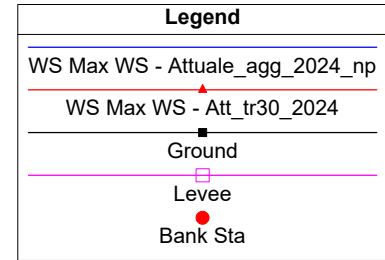
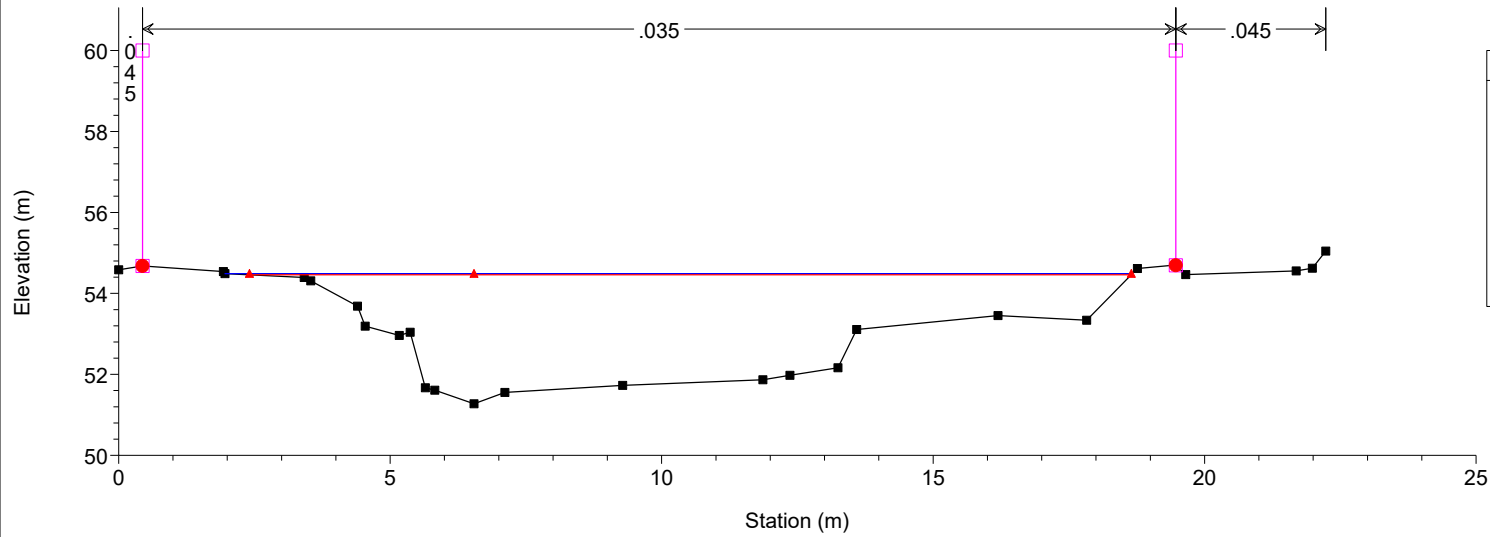
RioPietroso Plan: 1) Attuale\_agg\_2024\_np 2) Att\_tr30\_2024  
RS = 12.15 BR



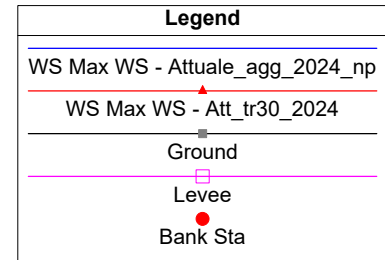
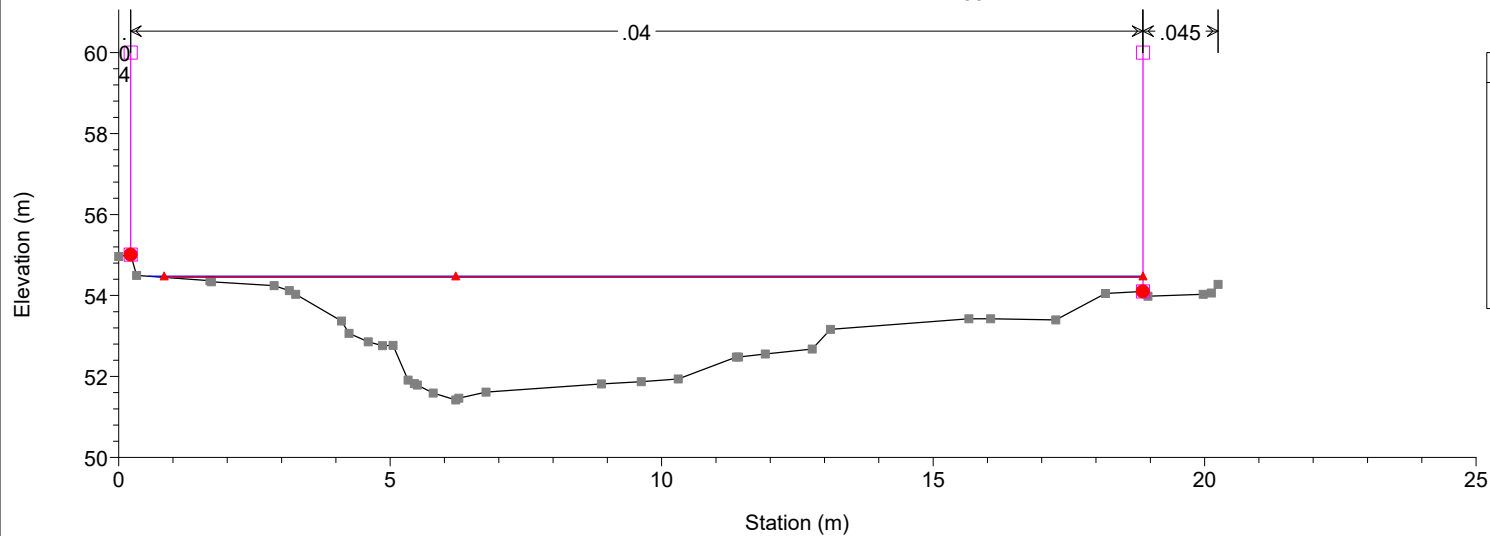
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RS = 12.14

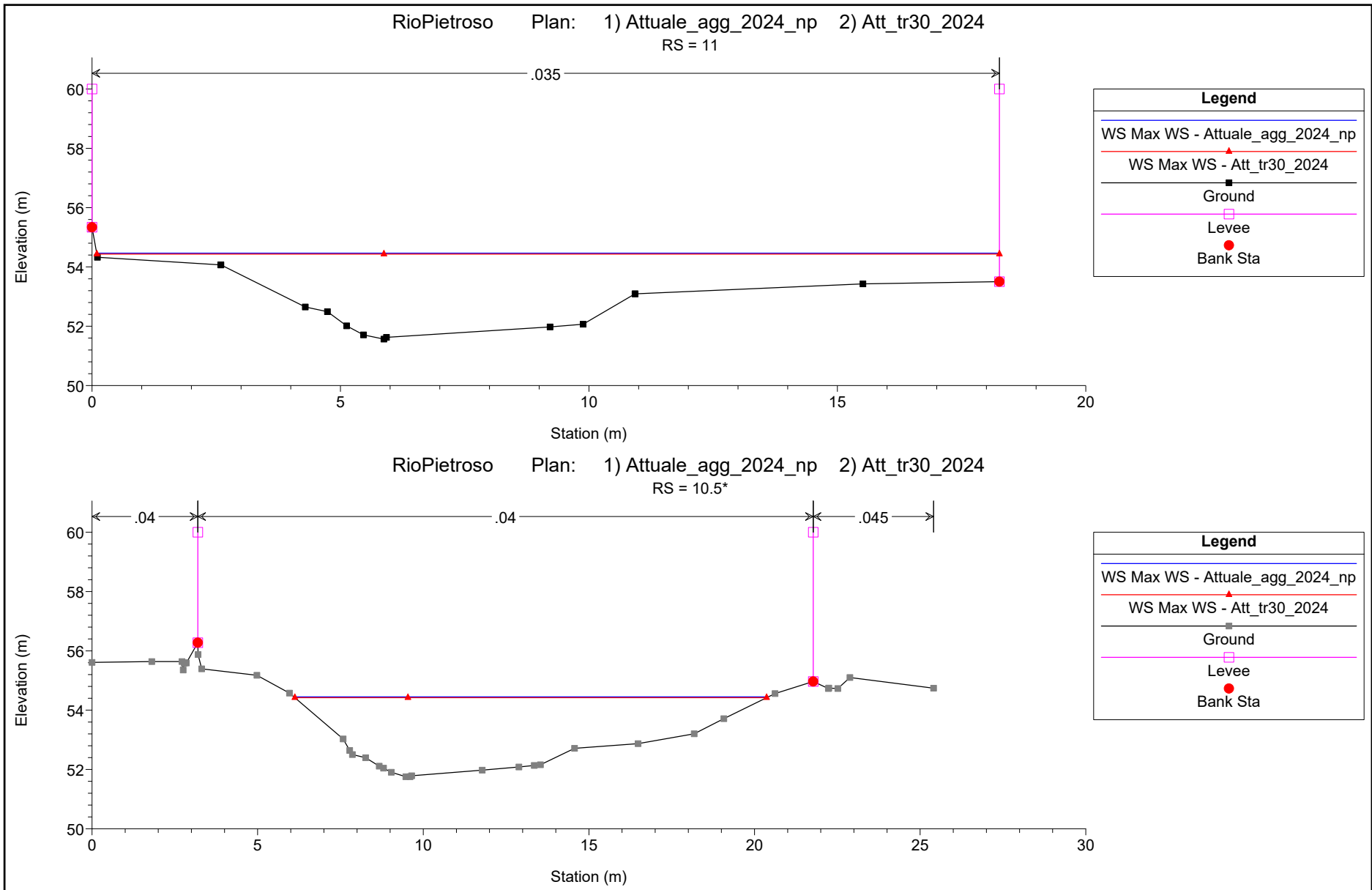


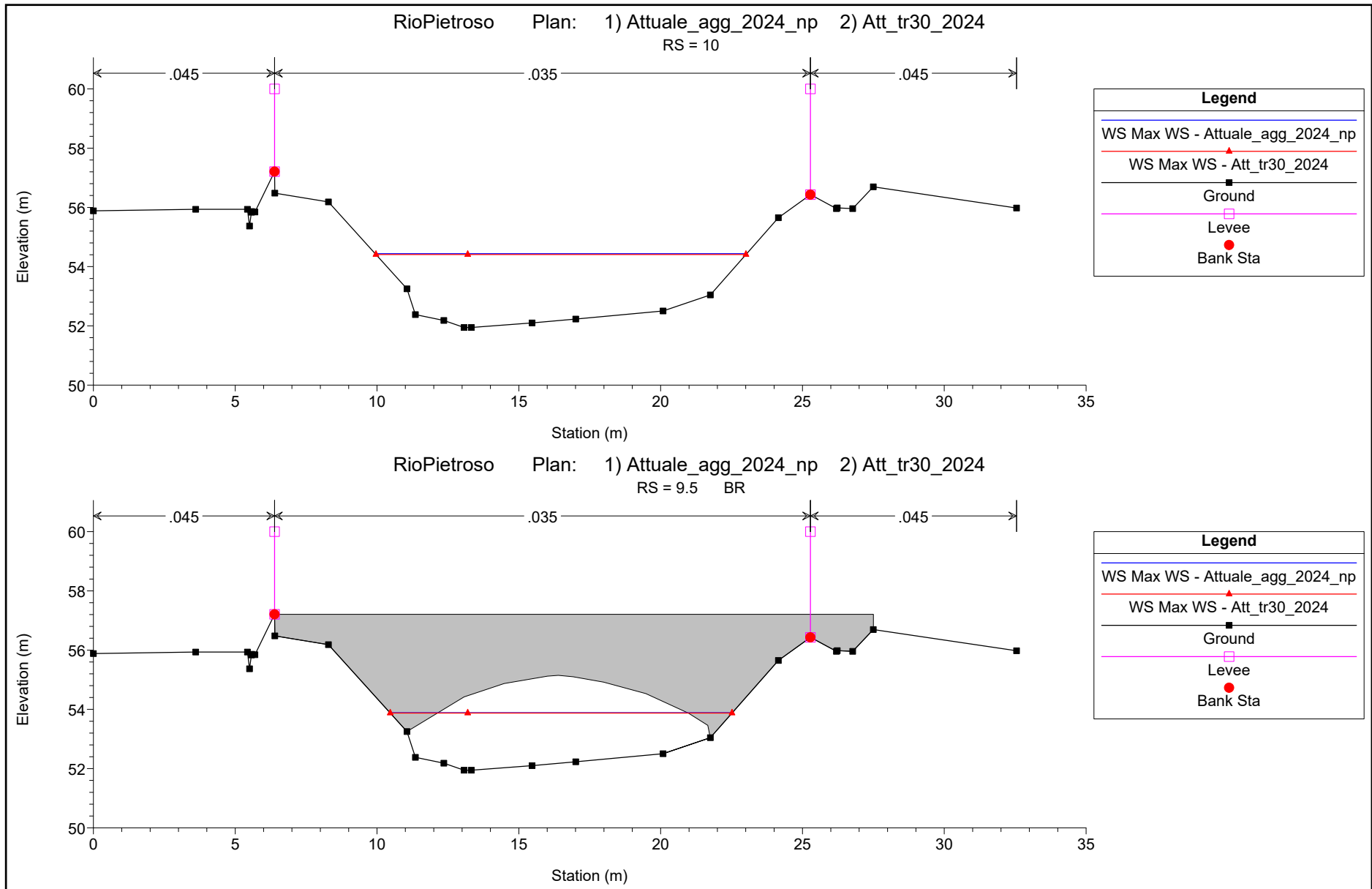
RioPietroso Plan: 1) Attuale\_agg\_2024\_np 2) Att\_tr30\_2024  
RS = 12.1

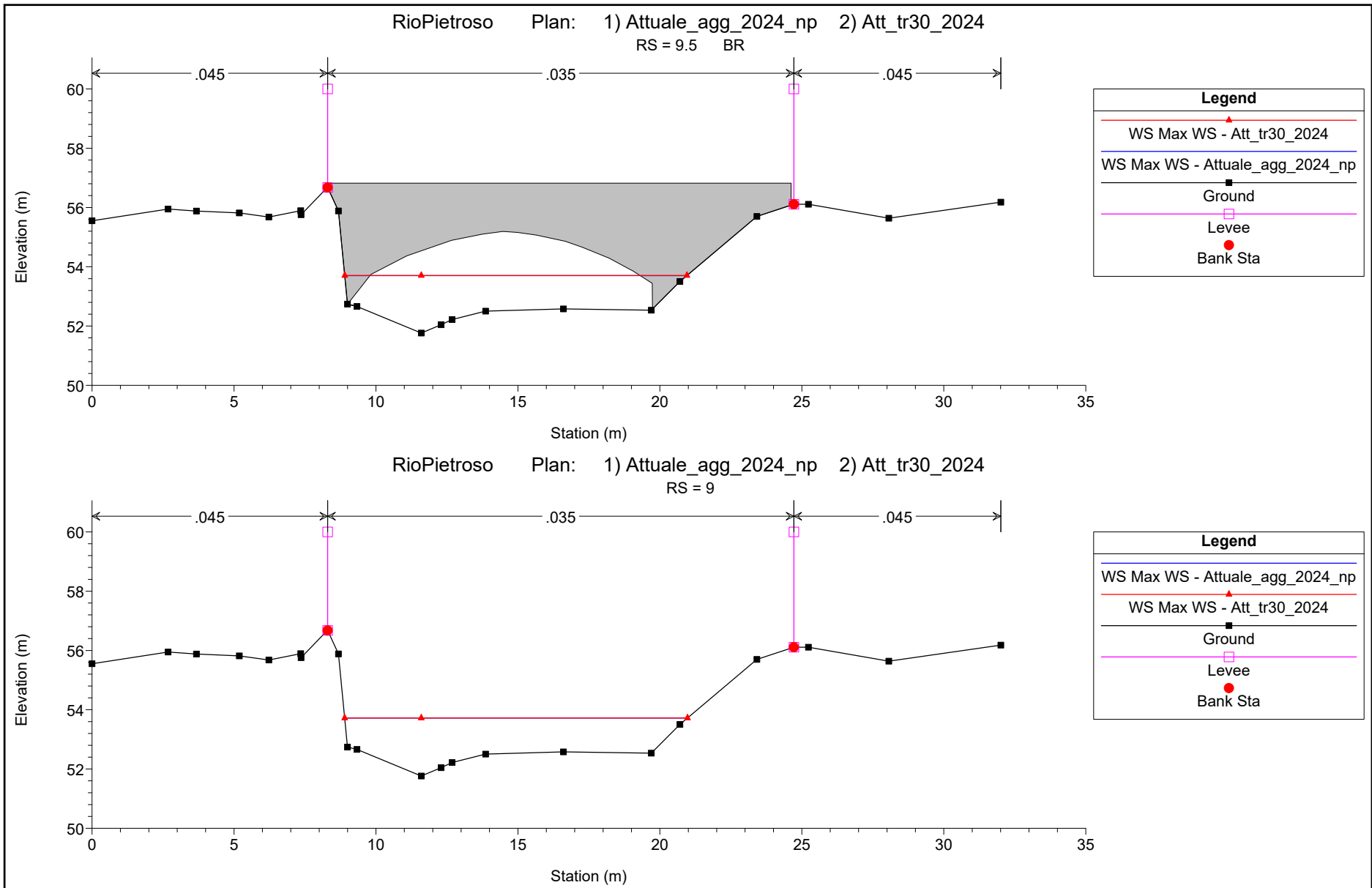


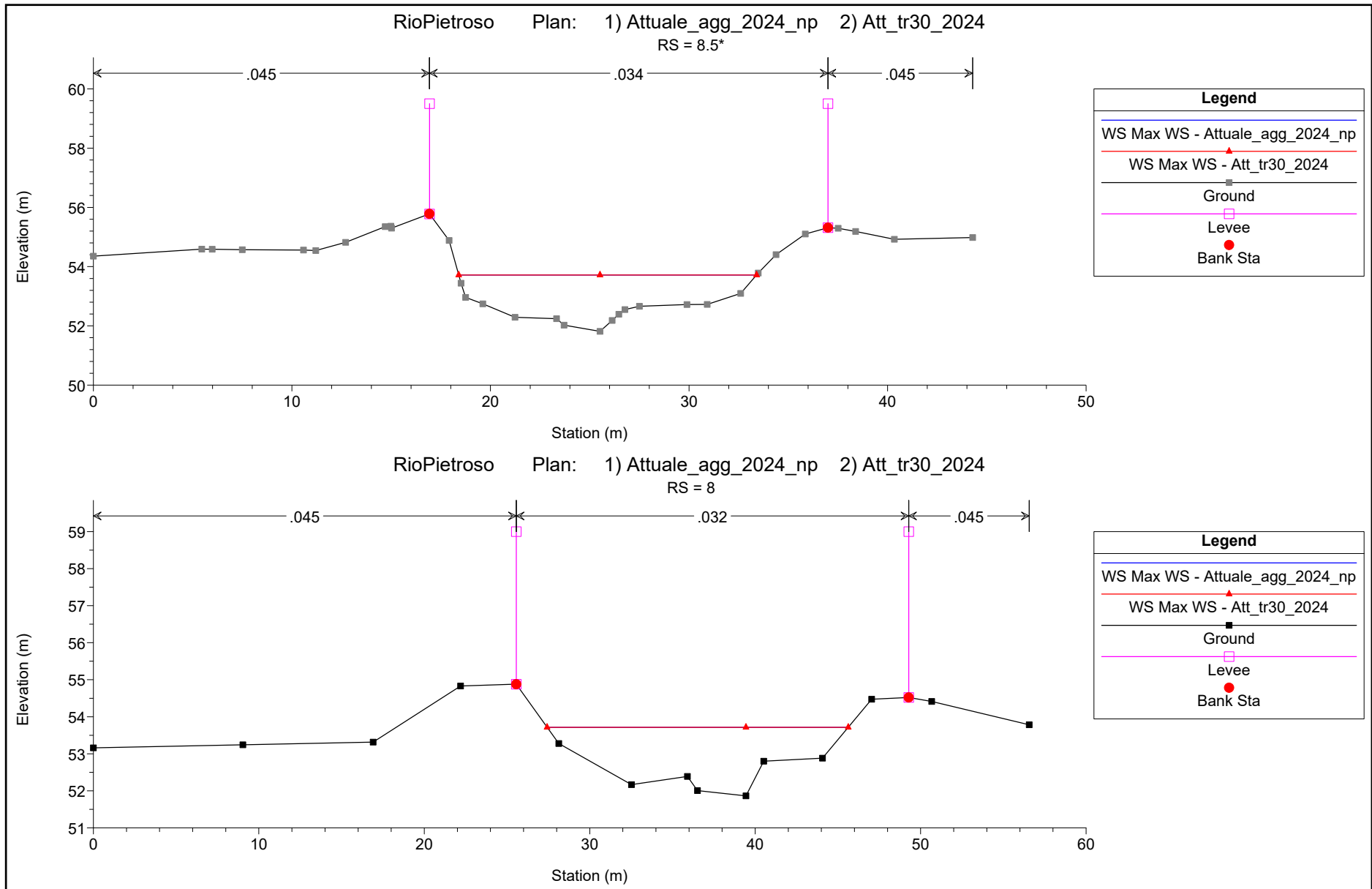
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RS = 11.55\*

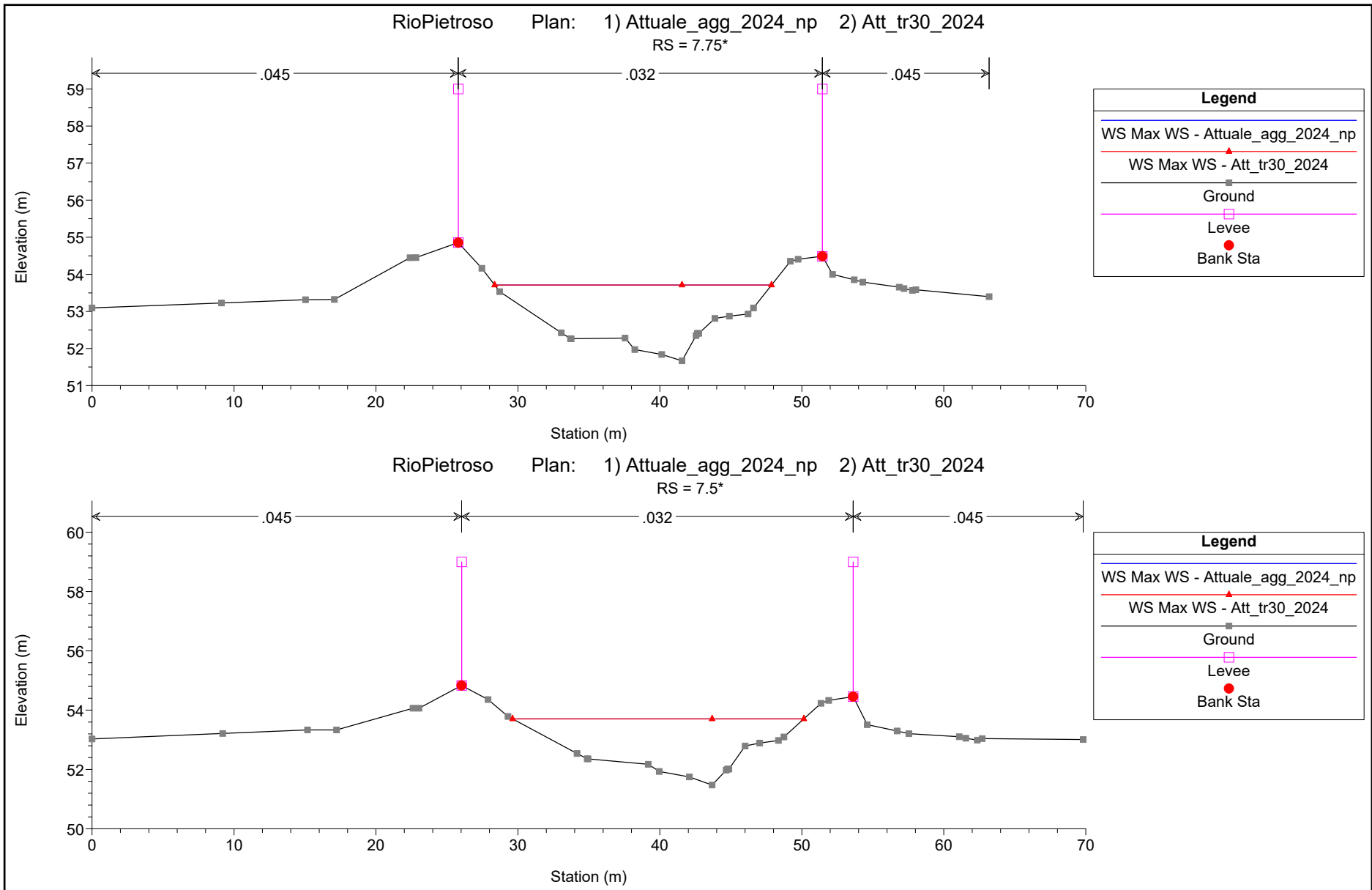


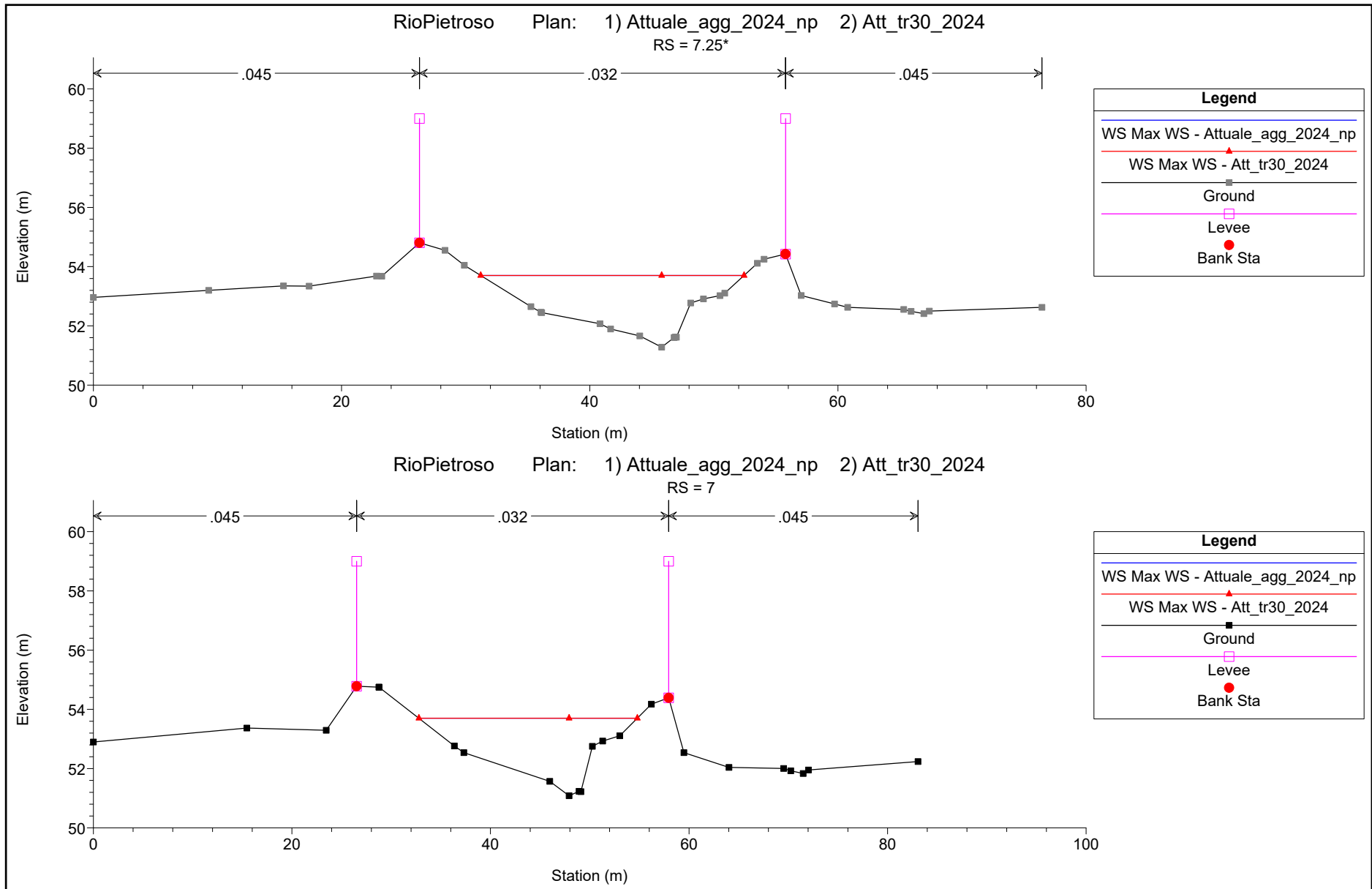




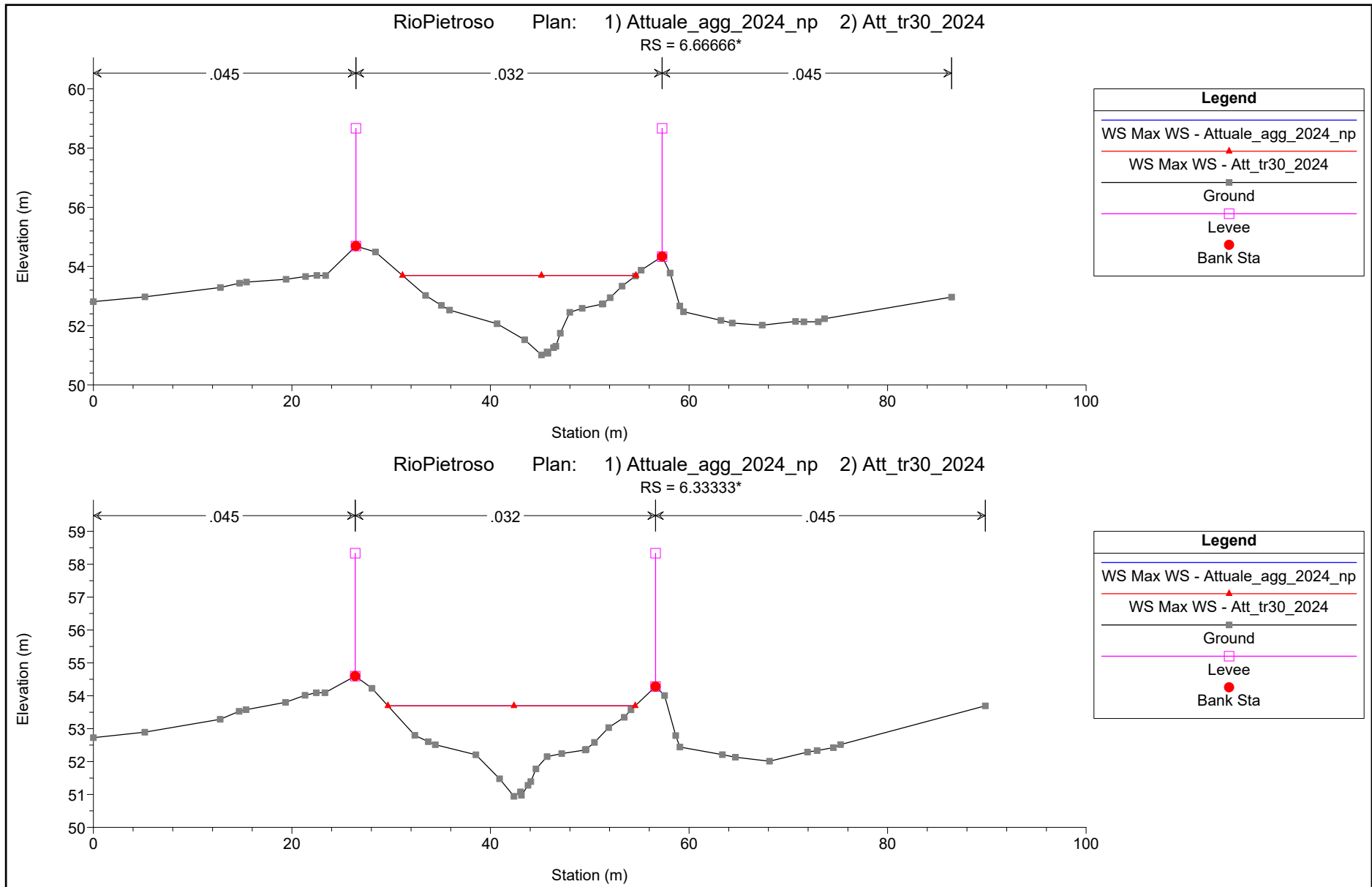


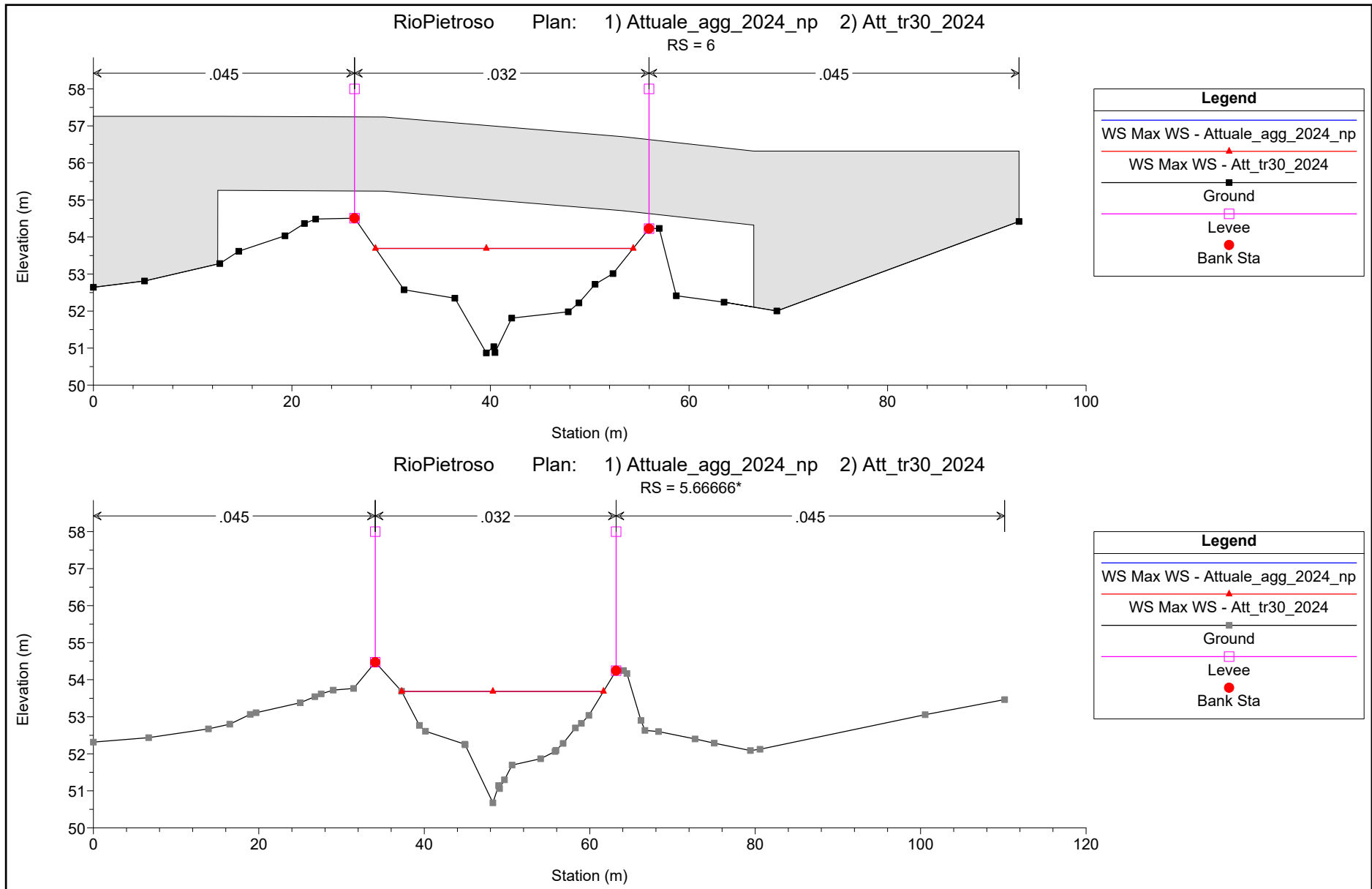


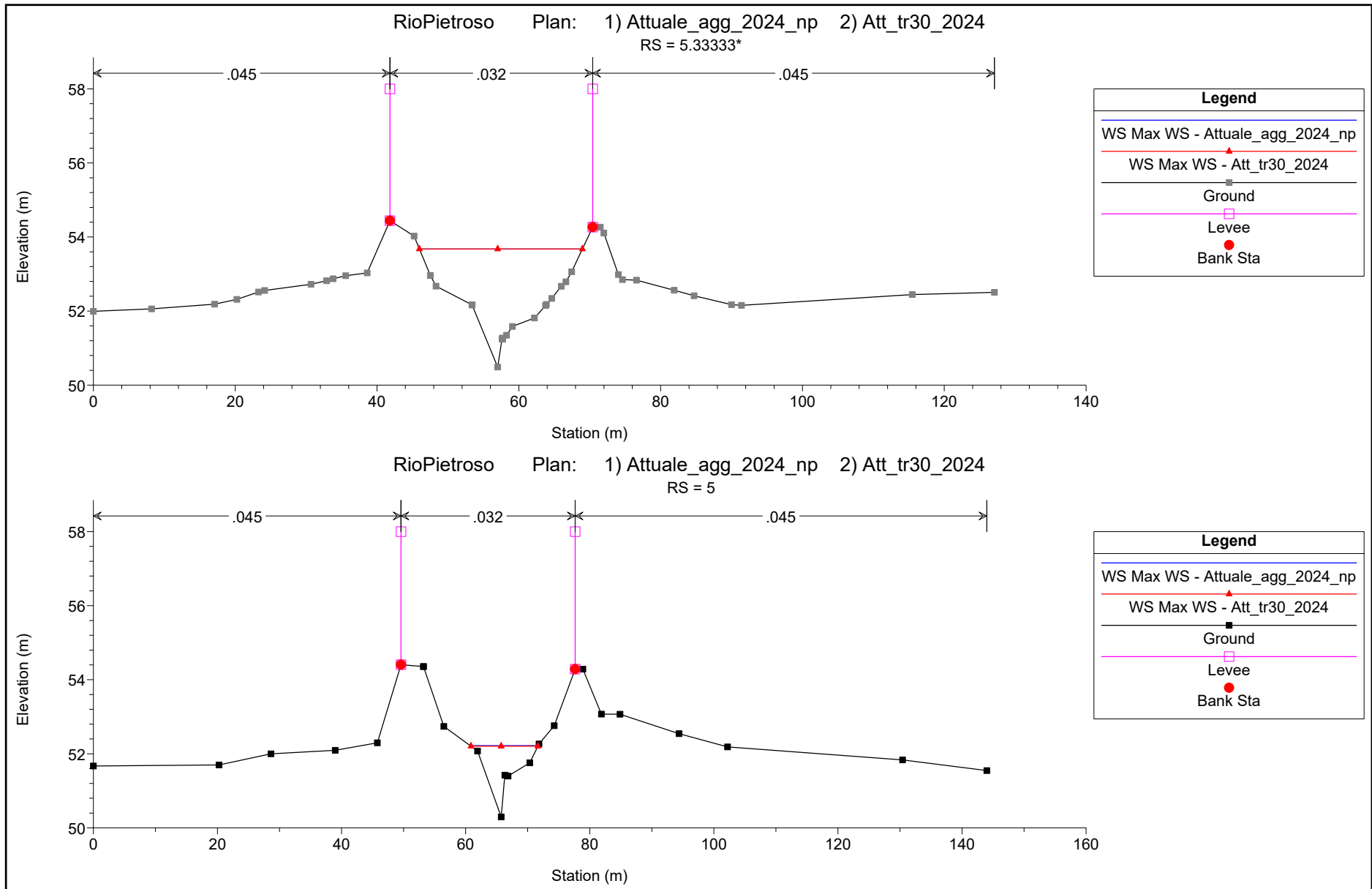


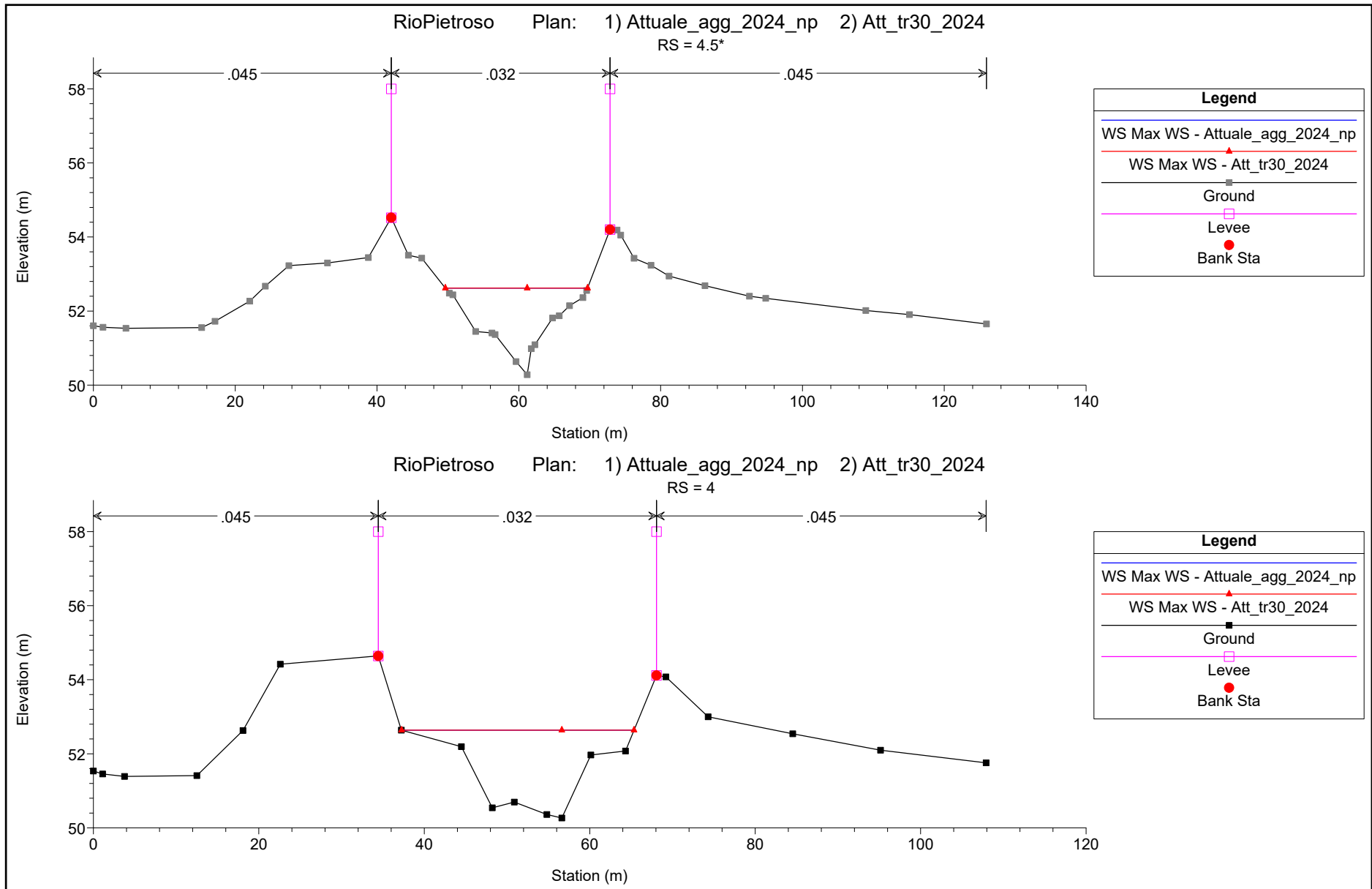


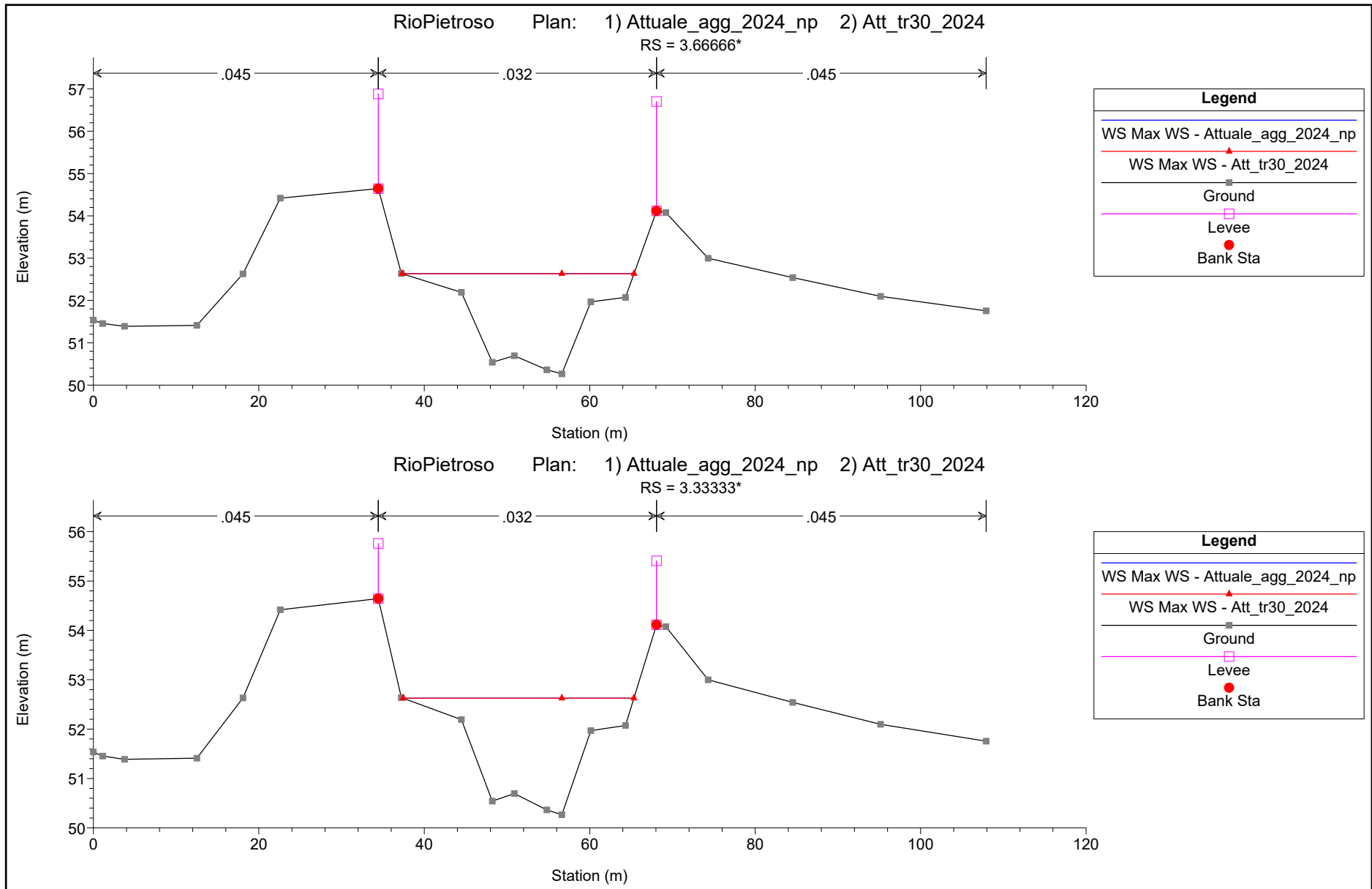


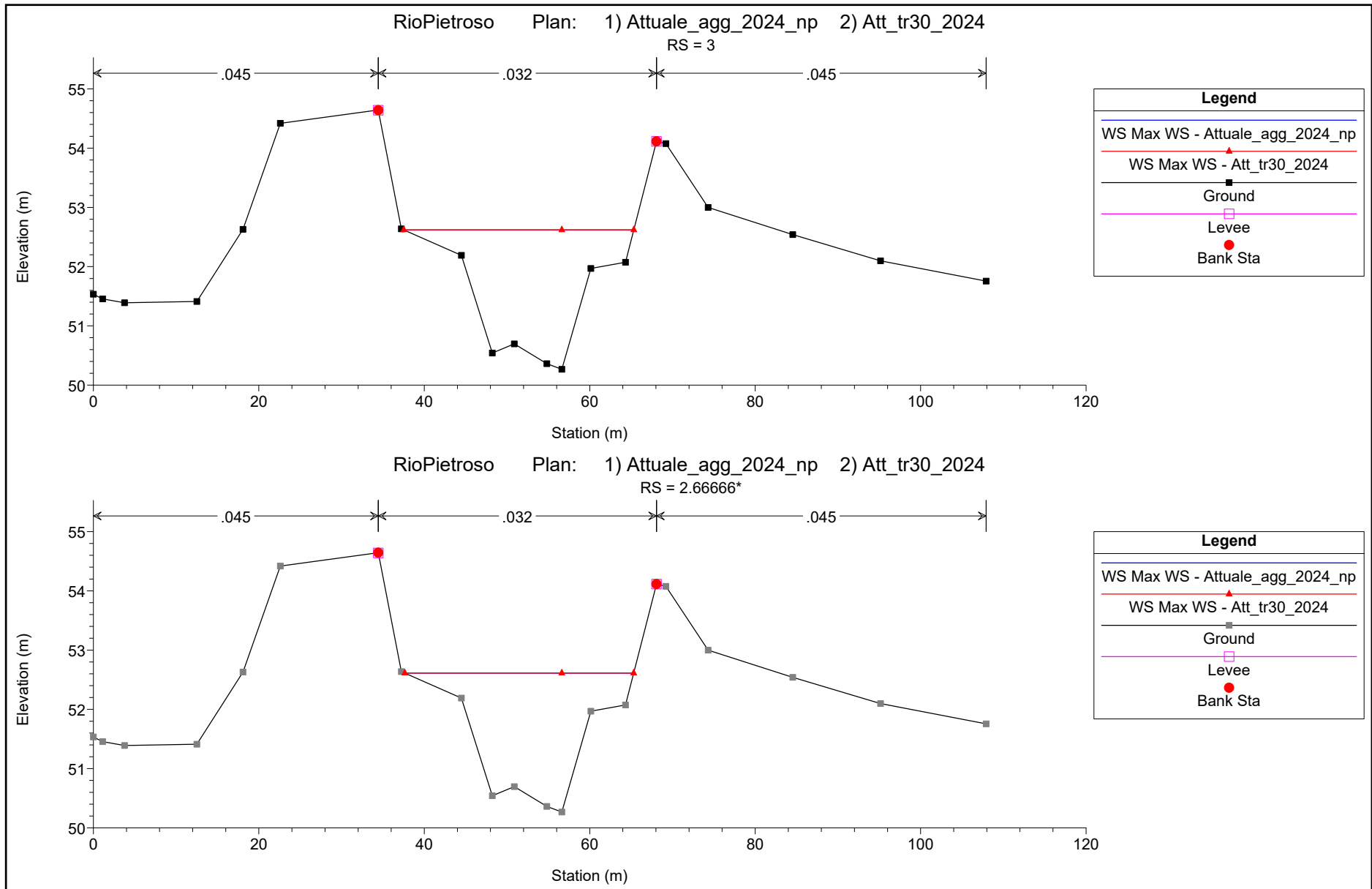


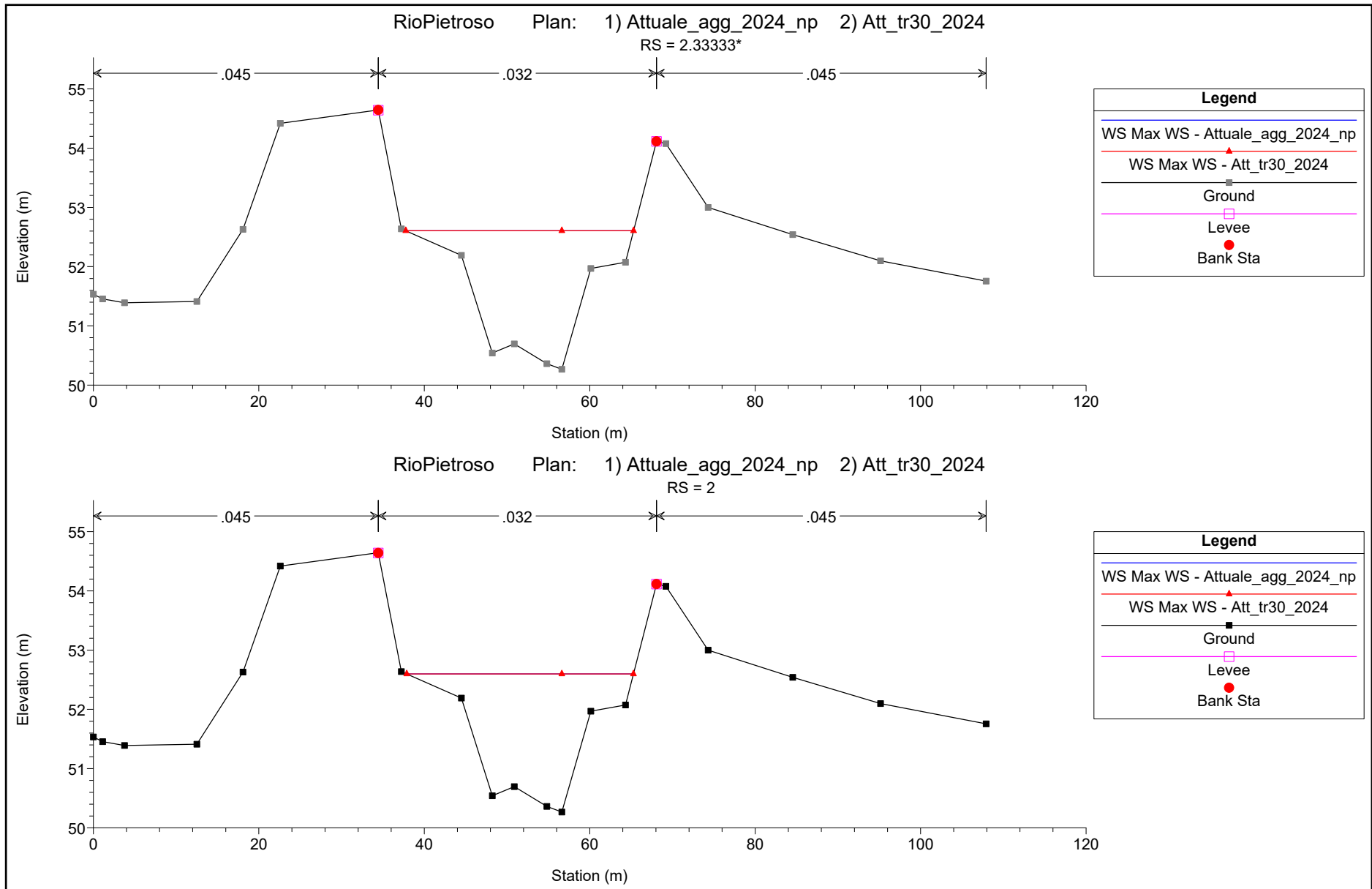


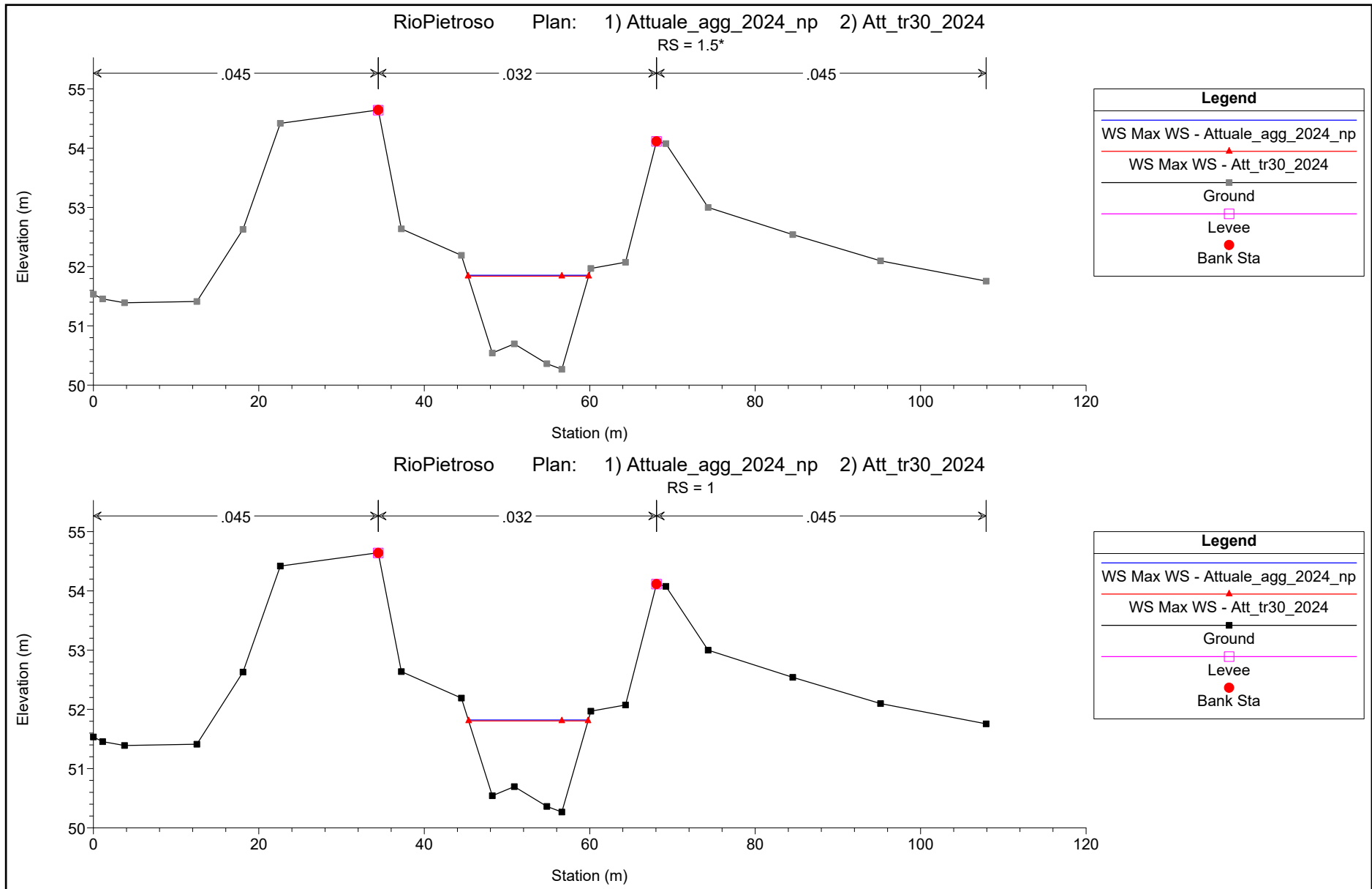














HEC-RAS Profile: Max WS

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch EI (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
Pietroso	97	Max WS	Attuale_agg_2024_np	70.70	80.69	83.02	83.22	83.74	0.020112	3.77	18.74	19.85	1.24
Pietroso	97	Max WS	Att_tr30_2024	48.08	80.69	82.77	82.89	83.36	0.019249	3.39	14.19	17.00	1.18
Pietroso	96	Max WS	Attuale_agg_2024_np	10.00	79.87	82.44		82.44	0.000081	0.37	43.93	41.75	0.08
Pietroso	96	Max WS	Att_tr30_2024	10.00	79.87	82.44		82.44	0.000081	0.37	43.93	41.75	0.08
Pietroso	95	Max WS	Attuale_agg_2024_np	10.00	79.43	82.44		82.44	0.000047	0.29	52.02	39.80	0.06
Pietroso	95	Max WS	Att_tr30_2024	10.00	79.43	82.44		82.44	0.000047	0.29	52.02	39.80	0.06
Pietroso	94	Max WS	Attuale_agg_2024_np	70.67	79.05	81.48	81.50	81.90	0.009319	3.75	30.26	33.94	0.87
Pietroso	94	Max WS	Att_tr30_2024	48.06	79.05	81.22	81.29	81.64	0.010064	3.54	21.85	31.82	0.88
Pietroso	93	Max WS	Attuale_agg_2024_np	70.66	78.37	80.79	81.06	81.75	0.017426	4.93	19.28	19.36	1.18
Pietroso	93	Max WS	Att_tr30_2024	48.05	78.37	80.48	80.75	81.36	0.018697	4.51	13.74	17.25	1.18
Pietroso	92	Max WS	Attuale_agg_2024_np	70.66	78.30	80.58	80.59	81.15	0.007923	3.76	25.22	22.63	0.85
Pietroso	92	Max WS	Att_tr30_2024	10.00	78.30	80.46		80.47	0.000211	0.59	22.54	21.94	0.14
Pietroso	91	Max WS	Attuale_agg_2024_np	10.00	77.48	80.46		80.47	0.000153	0.53	31.09	32.76	0.11
Pietroso	91	Max WS	Att_tr30_2024	10.00	77.48	80.46		80.47	0.000153	0.53	31.09	32.76	0.11
Pietroso	90	Max WS	Attuale_agg_2024_np	70.66	77.52	80.05	80.23	80.87	0.014573	4.81	20.62	18.13	1.03
Pietroso	90	Max WS	Att_tr30_2024	48.04	77.52	79.75	79.91	80.46	0.014470	4.34	15.32	16.30	1.00
Pietroso	89	Max WS	Attuale_agg_2024_np	70.65	77.08	79.67		79.90	0.004754	2.95	40.60	41.89	0.63
Pietroso	89	Max WS	Att_tr30_2024	48.04	77.08	79.33		79.57	0.005450	2.83	27.82	34.07	0.66
Pietroso	88	Max WS	Attuale_agg_2024_np	70.64	76.59	79.26	79.26	79.91	0.009354	4.35	23.61	17.73	0.88
Pietroso	88	Max WS	Att_tr30_2024	48.03	76.59	78.90	78.91	79.45	0.009364	3.91	17.49	15.75	0.86
Pietroso	87	Max WS	Attuale_agg_2024_np	70.63	75.96	78.46	78.41	79.15	0.011530	3.68	19.19	12.76	0.96
Pietroso	87	Max WS	Att_tr30_2024	10.00	75.96	78.15		78.17	0.000420	0.65	15.39	11.52	0.18
Pietroso	86	Max WS	Attuale_agg_2024_np	70.63	75.91	78.37		78.98	0.010128	3.45	20.46	13.55	0.90
Pietroso	86	Max WS	Att_tr30_2024	10.00	75.91	78.15		78.17	0.000323	0.57	17.46	13.05	0.16
Pietroso	85	Max WS	Attuale_agg_2024_np	70.63	75.72	78.24	78.39	79.09	0.018182	4.09	17.28	13.37	1.15
Pietroso	85	Max WS	Att_tr30_2024	10.00	75.72	78.13		78.15	0.000447	0.63	15.91	12.64	0.18
Pietroso	84	Max WS	Attuale_agg_2024_np	10.00	75.61	78.11		78.13	0.000414	0.66	15.21	9.84	0.17
Pietroso	84	Max WS	Att_tr30_2024	10.00	75.61	78.11		78.13	0.000414	0.66	15.21	9.84	0.17

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	83.2	Max WS	Attuale_agg_2024_np	70.63	75.57	77.61	78.63	80.48	0.067426	7.50	9.42	5.96	1.91
Pietroso	83.2	Max WS	Att_tr30_2024	48.03	75.57	77.27	77.92	79.44	0.064000	6.53	7.36	5.93	1.87
Pietroso	83.1	Max WS	Attuale_agg_2024_np	70.63	75.52	77.24	78.18	80.44	0.071350	7.92	8.92	6.24	2.12
Pietroso	83.1	Max WS	Att_tr30_2024	48.03	75.52	76.90	77.64	79.41	0.071256	7.02	6.84	6.13	2.12
Pietroso	82	Max WS	Attuale_agg_2024_np	70.63	74.65	77.01		77.73	0.011134	3.74	18.89	11.53	0.93
Pietroso	82	Max WS	Att_tr30_2024	10.00	74.65	76.74		76.76	0.000360	0.63	15.85	10.69	0.17
Pietroso	81	Max WS	Attuale_agg_2024_np	70.63	74.58	76.87	76.98	77.71	0.011962	4.13	18.40	15.10	1.03
Pietroso	81	Max WS	Att_tr30_2024	10.00	74.58	76.73		76.75	0.000328	0.64	16.39	14.01	0.17
Pietroso	80	Max WS	Attuale_agg_2024_np	70.63	74.47	76.28	76.86	78.47	0.040884	7.64	13.12	12.95	1.87
Pietroso	80	Max WS	Att_tr30_2024	48.03	74.47	75.96	76.57	77.94	0.045341	7.01	9.31	11.22	1.91
Pietroso	79	Max WS	Attuale_agg_2024_np	70.63	73.20	75.87		76.40	0.006772	3.22	21.91	11.55	0.75
Pietroso	79	Max WS	Att_tr30_2024	48.02	73.20	75.53		75.89	0.005205	2.65	18.15	10.62	0.65
Pietroso	78	Max WS	Attuale_agg_2024_np	70.63	73.69	75.73	75.67	76.39	0.008843	3.61	20.48	14.98	0.90
Pietroso	78	Max WS	Att_tr30_2024	48.02	73.69	75.41		75.90	0.008813	3.11	15.82	13.69	0.87
Pietroso	77	Max WS	Attuale_agg_2024_np	70.63	72.75	75.51	75.62	76.34	0.013486	4.65	19.66	14.04	1.00
Pietroso	77	Max WS	Att_tr30_2024	48.02	72.75	75.20	75.27	75.84	0.012440	4.03	15.37	13.44	0.94
Pietroso	76	Max WS	Attuale_agg_2024_np	70.63	72.56	75.42	75.51	76.18	0.010317	4.34	21.39	16.99	0.95
Pietroso	76	Max WS	Att_tr30_2024	48.02	72.56	75.11	75.14	75.71	0.009304	3.71	16.47	15.43	0.88
Pietroso	75	Max WS	Attuale_agg_2024_np	70.63	72.78	75.15	75.26	75.97	0.014637	4.00	17.78	13.80	1.10
Pietroso	75	Max WS	Att_tr30_2024	48.02	72.78	74.87	74.90	75.47	0.013716	3.42	14.05	12.78	1.03
Pietroso	74	Max WS	Attuale_agg_2024_np	10.00	72.23	74.74		74.74	0.000068	0.35	60.94	90.11	0.07
Pietroso	74	Max WS	Att_tr30_2024	10.00	72.23	74.74		74.74	0.000068	0.35	60.94	90.11	0.07
Pietroso	73	Max WS	Attuale_agg_2024_np	70.63	72.14	73.85	73.94	74.22	0.012624	3.76	35.95	68.50	0.99
Pietroso	73	Max WS	Att_tr30_2024	48.02	72.14	73.70	73.79	74.04	0.012199	3.43	26.28	59.65	0.96
Pietroso	72	Max WS	Attuale_agg_2024_np	70.62	71.72	73.62		73.77	0.004729	2.66	51.40	70.06	0.65
Pietroso	72	Max WS	Att_tr30_2024	48.01	71.72	73.46	73.52	74.23	0.016691	4.67	15.31	18.75	1.20
Pietroso	71	Max WS	Attuale_agg_2024_np	70.62	71.50	73.51	73.53	74.50	0.018024	5.01	18.09	15.78	1.26

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	71	Max WS	Att_tr30_2024	10.00	71.50	73.37		73.39	0.000520	0.80	15.90	15.19	0.21
Pietroso	70	Max WS	Attuale_agg_2024_np	70.61	70.78	73.05	73.44	74.18	0.018916	5.70	20.51	33.81	1.25
Pietroso	70	Max WS	Att_tr30_2024	48.01	70.78	72.77	73.21	73.85	0.019081	5.22	12.60	21.32	1.23
Pietroso	69	Max WS	Attuale_agg_2024_np	70.61	70.43	72.88	72.90	73.44	0.010793	3.34	22.33	23.83	0.95
Pietroso	69	Max WS	Att_tr30_2024	48.01	70.43	72.60	72.59	73.05	0.012170	2.99	16.24	19.17	0.97
Pietroso	68	Max WS	Attuale_agg_2024_np	70.61	70.19	72.71	72.71	73.34	0.009692	3.60	21.61	19.25	0.93
Pietroso	68	Max WS	Att_tr30_2024	48.01	70.19	72.42	72.36	72.89	0.009538	3.10	16.38	16.45	0.89
Pietroso	67	Max WS	Attuale_agg_2024_np	70.61	70.19	72.52	72.71	73.38	0.015544	4.18	18.14	17.44	1.15
Pietroso	67	Max WS	Att_tr30_2024	48.01	70.19	72.22	72.36	72.92	0.017511	3.74	13.27	14.54	1.17
Pietroso	66	Max WS	Attuale_agg_2024_np	70.61	69.83	72.41		72.83	0.007518	2.85	24.79	18.09	0.78
Pietroso	66	Max WS	Att_tr30_2024	48.01	69.83	72.11		72.41	0.006550	2.46	19.55	16.03	0.71
Pietroso	65	Max WS	Attuale_agg_2024_np	70.61	69.54	72.28	72.44	72.93	0.012093	3.67	22.43	31.49	0.98
Pietroso	65	Max WS	Att_tr30_2024	48.01	69.54	71.97	71.95	72.54	0.012964	3.34	14.39	15.35	0.99
Pietroso	64	Max WS	Attuale_agg_2024_np	70.61	69.46	71.83	72.32	72.95	0.016048	4.94	16.84	13.78	1.18
Pietroso	64	Max WS	Att_tr30_2024	48.01	69.46	71.54	71.73	72.38	0.014688	4.20	13.02	12.68	1.10
Pietroso	63	Max WS	Attuale_agg_2024_np	70.61	68.53	70.93	71.13	71.70	0.014770	4.69	22.21	23.54	1.09
Pietroso	63	Max WS	Att_tr30_2024	10.00	68.53	70.92		70.94	0.000301	0.67	22.08	23.51	0.16
Pietroso	62	Max WS	Attuale_agg_2024_np	10.00	68.57	70.93		70.93	0.000017	0.17	82.21	58.94	0.04
Pietroso	62	Max WS	Att_tr30_2024	10.00	68.57	70.93		70.93	0.000017	0.17	82.21	58.94	0.04
Pietroso	61	Max WS	Attuale_agg_2024_np	10.00	68.01	70.93		70.93	0.000023	0.22	63.04	38.40	0.05
Pietroso	61	Max WS	Att_tr30_2024	10.00	68.01	70.93		70.93	0.000023	0.22	63.04	38.40	0.05
Pietroso	60	Max WS	Attuale_agg_2024_np	10.00	68.09	70.93		70.93	0.000038	0.28	54.51	45.66	0.06
Pietroso	60	Max WS	Att_tr30_2024	10.00	68.09	70.93		70.93	0.000038	0.28	54.51	45.66	0.06
Pietroso	59	Max WS	Attuale_agg_2024_np	70.61	68.21	70.09	70.43	71.34	0.085103	4.96	14.25	29.86	2.29
Pietroso	59	Max WS	Att_tr30_2024	48.01	68.21	69.94	70.08	71.05	0.092309	4.67	10.29	24.88	2.32
Pietroso	58	Max WS	Attuale_agg_2024_np	70.61	66.79	69.24		69.50	0.004485	2.28	32.59	26.67	0.62
Pietroso	58	Max WS	Att_tr30_2024	48.00	66.79	69.01		69.19	0.003902	1.88	26.54	25.56	0.56

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	57	Max WS	Attuale_agg_2024_np	70.61	67.01	69.11	69.13	69.51	0.010588	3.55	29.67	36.72	0.94
Pietroso	57	Max WS	Att_tr30_2024	48.00	67.01	68.88	68.92	69.24	0.011386	3.28	21.55	33.82	0.94
Pietroso	56	Max WS	Attuale_agg_2024_np	70.61	66.65	68.91		69.23	0.009311	2.98	31.33	35.68	0.85
Pietroso	56	Max WS	Att_tr30_2024	48.00	66.65	68.64	68.65	68.96	0.012011	2.89	22.08	34.25	0.93
Pietroso	55	Max WS	Attuale_agg_2024_np	70.60	66.08	68.61	68.76	69.26	0.012580	4.24	24.24	25.95	0.94
Pietroso	55	Max WS	Att_tr30_2024	48.00	66.08	68.28	68.50	68.99	0.015152	4.15	16.24	23.06	1.00
Pietroso	54	Max WS	Attuale_agg_2024_np	70.60	65.75	68.24	68.44	69.19	0.013088	4.66	18.60	15.10	1.07
Pietroso	54	Max WS	Att_tr30_2024	10.00	65.75	68.05		68.07	0.000395	0.76	15.85	13.90	0.18
Pietroso	53	Max WS	Attuale_agg_2024_np	70.60	64.27	66.84	66.97	67.67	0.011173	4.23	19.86	16.62	0.96
Pietroso	53	Max WS	Att_tr30_2024	48.00	64.27	66.49	66.56	67.16	0.011156	3.72	14.47	14.08	0.93
Pietroso	52	Max WS	Attuale_agg_2024_np	70.59	61.70	64.44	64.46	65.11	0.008747	3.85	22.22	18.67	0.84
Pietroso	52	Max WS	Att_tr30_2024	47.99	61.70	64.08	64.06	64.64	0.008664	3.39	15.97	16.58	0.81
Pietroso	51	Max WS	Attuale_agg_2024_np	70.58	60.83	63.84		64.19	0.007338	2.63	26.86	21.85	0.76
Pietroso	51	Max WS	Att_tr30_2024	47.99	60.83	63.38		63.76	0.010976	2.72	17.63	18.23	0.88
Pietroso	50.9			Lat Struct									
Pietroso	50.8			Lat Struct									
Pietroso	50	Max WS	Attuale_agg_2024_np	70.58	60.57	63.41		63.85	0.010733	2.93	24.05	21.33	0.88
Pietroso	50	Max WS	Att_tr30_2024	47.99	60.57	63.00		63.38	0.006462	2.72	17.67	10.88	0.68
Pietroso	49	Max WS	Attuale_agg_2024_np	70.58	60.30	63.04		63.35	0.004445	2.46	28.69	18.16	0.63
Pietroso	49	Max WS	Att_tr30_2024	47.98	60.30	62.67		62.91	0.004150	2.15	22.31	16.45	0.59
Pietroso	48	Max WS	Attuale_agg_2024_np	70.58	60.21	62.75	62.81	63.38	0.014069	3.52	20.07	17.90	1.06
Pietroso	48	Max WS	Att_tr30_2024	47.98	60.21	62.40	62.40	62.94	0.012821	3.25	14.75	13.66	1.00
Pietroso	47	Max WS	Attuale_agg_2024_np	70.57	59.62	62.31		62.65	0.005113	2.56	27.59	18.57	0.67
Pietroso	47	Max WS	Att_tr30_2024	47.98	59.62	61.97		62.22	0.004671	2.23	21.56	16.72	0.63
Pietroso	46	Max WS	Attuale_agg_2024_np	70.57	58.98	62.08		62.42	0.004197	2.58	27.34	14.47	0.60
Pietroso	46	Max WS	Att_tr30_2024	47.97	58.98	61.77		62.00	0.003127	2.08	23.06	13.58	0.51
Pietroso	45	Max WS	Attuale_agg_2024_np	69.04	58.26	61.89		62.07	0.002457	2.00	37.83	23.37	0.47

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	45	Max WS	Att_tr30_2024	47.95	58.26	61.64		61.76	0.001906	1.63	32.07	22.92	0.40
Pietroso	44	Max WS	Attuale_agg_2024_np	52.44	57.88	61.80		61.88	0.000784	1.28	48.13	29.44	0.27
Pietroso	44	Max WS	Att_tr30_2024	43.33	57.88	61.57		61.64	0.000813	1.22	41.26	29.44	0.27
Pietroso	43.2	Max WS	Attuale_agg_2024_np	48.81	57.59	61.78	59.80	61.86	0.000679	1.25	38.94	14.47	0.24
Pietroso	43.2	Max WS	Att_tr30_2024	42.50	57.59	61.55	59.67	61.62	0.000654	1.19	35.63	13.93	0.24
Pietroso	43.15			Bridge									
Pietroso	43.1	Max WS	Attuale_agg_2024_np	48.81	57.74	60.12		60.43	0.005269	2.47	19.72	13.83	0.66
Pietroso	43.1	Max WS	Att_tr30_2024	42.50	57.74	59.99		60.27	0.005349	2.37	17.94	13.78	0.66
Pietroso	42	Max WS	Attuale_agg_2024_np	48.81	57.36	59.82		60.31	0.008464	3.11	15.68	10.42	0.81
Pietroso	42	Max WS	Att_tr30_2024	42.50	57.36	59.70		60.14	0.007992	2.94	14.44	9.99	0.78
Pietroso	41.9			Lat Struct									
Pietroso	41.8			Lat Struct									
Pietroso	41	Max WS	Attuale_agg_2024_np	48.80	57.20	59.52		59.86	0.004853	2.57	19.01	11.48	0.64
Pietroso	41	Max WS	Att_tr30_2024	42.50	57.20	59.42		59.71	0.004372	2.38	17.88	11.23	0.60
Pietroso	40	Max WS	Attuale_agg_2024_np	48.71	56.94	59.39		59.69	0.004650	2.45	19.90	12.92	0.63
Pietroso	40	Max WS	Att_tr30_2024	42.50	56.94	59.30		59.56	0.004172	2.26	18.79	12.72	0.59
Pietroso	39	Max WS	Attuale_agg_2024_np	47.23	56.50	59.16		59.42	0.003761	2.27	20.81	12.61	0.56
Pietroso	39	Max WS	Att_tr30_2024	42.25	56.50	59.10		59.32	0.003366	2.11	20.02	12.52	0.53
Pietroso	38	Max WS	Attuale_agg_2024_np	46.57	56.38	59.07		59.28	0.004837	1.99	23.43	22.04	0.62
Pietroso	38	Max WS	Att_tr30_2024	42.06	56.38	59.02		59.20	0.004678	1.89	22.21	21.97	0.60
Pietroso	37	Max WS	Attuale_agg_2024_np	46.47	56.39	58.99		59.15	0.002110	1.76	26.37	15.88	0.44
Pietroso	37	Max WS	Att_tr30_2024	42.06	56.39	58.94		59.08	0.001861	1.64	25.61	15.60	0.41
Pietroso	36	Max WS	Attuale_agg_2024_np	44.65	55.85	58.93		59.02	0.000951	1.30	34.22	17.15	0.29
Pietroso	36	Max WS	Att_tr30_2024	41.08	55.85	58.89		58.97	0.000859	1.23	33.51	17.15	0.28
Pietroso	35	Max WS	Attuale_agg_2024_np	36.06	55.82	58.91		58.97	0.000664	1.14	31.70	14.42	0.24
Pietroso	35	Max WS	Att_tr30_2024	34.36	55.82	58.87		58.93	0.000636	1.10	31.14	14.42	0.24

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	34.2	Max WS	Attuale_agg_2024_np	29.73	55.66	58.89	56.99	58.95	0.000665	1.05	28.35	12.31	0.22
Pietroso	34.2	Max WS	Att_tr30_2024	29.29	55.66	58.85	56.98	58.91	0.000678	1.05	27.87	12.31	0.22
Pietroso	34.15			Bridge									
Pietroso	34.1	Max WS	Attuale_agg_2024_np	29.73	55.71	57.12		57.45	0.007000	2.51	11.85	9.23	0.71
Pietroso	34.1	Max WS	Att_tr30_2024	29.29	55.71	57.11		57.43	0.007027	2.50	11.72	9.23	0.71
Pietroso	34.09			Lat Struct									
Pietroso	34.08			Lat Struct									
Pietroso	33	Max WS	Attuale_agg_2024_np	29.72	55.06	56.80		56.98	0.005322	1.87	15.92	17.91	0.63
Pietroso	33	Max WS	Att_tr30_2024	29.28	55.06	56.78		56.96	0.005502	1.88	15.55	17.69	0.64
Pietroso	32	Max WS	Attuale_agg_2024_np	29.72	55.06	56.77		56.85	0.001502	1.22	24.30	20.08	0.36
Pietroso	32	Max WS	Att_tr30_2024	29.28	55.06	56.75		56.83	0.001541	1.23	23.85	20.00	0.36
Pietroso	31	Max WS	Attuale_agg_2024_np	29.72	54.69	56.71		56.91	0.003980	2.00	14.84	11.49	0.56
Pietroso	31	Max WS	Att_tr30_2024	29.27	54.69	56.68		56.89	0.004073	2.01	14.57	11.43	0.57
Pietroso	30	Max WS	Attuale_agg_2024_np	10.00	54.43	56.53		56.54	0.000336	0.53	18.79	17.59	0.16
Pietroso	30	Max WS	Att_tr30_2024	10.00	54.43	56.53		56.54	0.000336	0.53	18.79	17.59	0.16
Pietroso	29	Max WS	Attuale_agg_2024_np	29.70	54.43	56.39		56.55	0.004291	1.81	16.45	16.65	0.58
Pietroso	29	Max WS	Att_tr30_2024	29.22	54.43	56.35		56.52	0.004640	1.85	15.81	16.39	0.60
Pietroso	28	Max WS	Attuale_agg_2024_np	29.69	54.01	56.32		56.48	0.003561	1.80	16.53	13.84	0.52
Pietroso	28	Max WS	Att_tr30_2024	29.19	54.01	56.27		56.44	0.003813	1.83	15.93	13.61	0.54
Pietroso	27.9			Lat Struct									
Pietroso	27.8			Lat Struct									
Pietroso	27	Max WS	Attuale_agg_2024_np	29.41	54.03	56.24		56.31	0.002063	1.19	24.65	26.86	0.40
Pietroso	27	Max WS	Att_tr30_2024	29.03	54.03	56.18		56.26	0.002407	1.25	23.26	26.63	0.43
Pietroso	26	Max WS	Attuale_agg_2024_np	1.76	53.48	56.18		56.19	0.000006	0.09	19.22	8.96	0.02
Pietroso	26	Max WS	Att_tr30_2024	5.03	53.48	56.12		56.13	0.000050	0.27	18.65	8.96	0.06
Pietroso	25	Max WS	Attuale_agg_2024_np	-3.29	53.32	56.18		56.19	0.000013	-0.14	22.93	11.05	0.03

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	25	Max WS	Att_tr30_2024	1.28	53.32	56.12		56.12	0.000002	0.06	22.22	11.05	0.01
Pietroso	24	Max WS	Attuale_agg_2024_np	-14.79	52.81	56.19		56.19	0.000037	-0.29	51.41	21.37	0.06
Pietroso	24	Max WS	Att_tr30_2024	-7.60	52.81	56.12		56.12	0.000011	-0.15	50.04	21.37	0.03
Pietroso	23.5	Max WS	Attuale_agg_2024_np	-17.28	52.81	56.19		56.19	0.000051	-0.34	51.41	21.37	0.07
Pietroso	23.5	Max WS	Att_tr30_2024	-9.65	52.81	56.12		56.12	0.000017	-0.19	50.04	21.37	0.04
Pietroso	23.2	Max WS	Attuale_agg_2024_np	-19.95	52.81	56.19		56.19	0.000068	-0.39	51.42	21.37	0.08
Pietroso	23.2	Max WS	Att_tr30_2024	-11.86	52.81	56.12		56.12	0.000026	-0.24	50.04	21.37	0.05
Pietrosovalle	23	Max WS	Attuale_agg_2024_np	35.04	52.80	56.19		56.23	0.000576	0.91	38.48	23.54	0.23
Pietrosovalle	23	Max WS	Att_tr30_2024	29.14	52.80	56.12		56.15	0.000435	0.79	36.98	22.78	0.20
Pietrosovalle	22.99	Max WS	Attuale_agg_2024_np	35.04	52.80	56.19		56.23	0.000577	0.91	38.47	23.54	0.23
Pietrosovalle	22.99	Max WS	Att_tr30_2024	29.14	52.80	56.12		56.15	0.000435	0.79	36.98	22.78	0.20
Pietrosovalle	22.9			Lat Struct									
Pietrosovalle	22.8			Lat Struct									
Pietrosovalle	22	Max WS	Attuale_agg_2024_np	33.66	52.86	56.17		56.22	0.000777	0.93	36.28	27.09	0.26
Pietrosovalle	22	Max WS	Att_tr30_2024	28.38	52.86	56.11		56.15	0.000643	0.82	34.61	27.09	0.23
Pietrosovalle	21.2	Max WS	Attuale_agg_2024_np	25.57	52.47	56.15	53.90	56.19	0.000391	0.88	28.98	10.00	0.17
Pietrosovalle	21.2	Max WS	Att_tr30_2024	24.85	52.47	56.10	53.88	56.13	0.000390	0.87	28.40	10.00	0.17
Pietrosovalle	21.15			Bridge									
Pietrosovalle	21.1	Max WS	Attuale_agg_2024_np	25.57	52.49	55.19		55.32	0.001899	1.61	15.91	6.61	0.33
Pietrosovalle	21.1	Max WS	Att_tr30_2024	24.85	52.49	55.12		55.25	0.001942	1.61	15.45	6.61	0.34
Pietrosovalle	21.09			Lat Struct									
Pietrosovalle	21.08			Lat Struct									
Pietrosovalle	21	Max WS	Attuale_agg_2024_np	25.57	52.40	55.17		55.25	0.000324	1.19	21.42	12.21	0.29
Pietrosovalle	21	Max WS	Att_tr30_2024	24.85	52.40	55.11		55.18	0.000342	1.21	20.58	12.03	0.29
Pietrosovalle	20	Max WS	Attuale_agg_2024_np	25.57	52.25	55.17		55.25	0.001096	1.19	21.41	12.78	0.29
Pietrosovalle	20	Max WS	Att_tr30_2024	24.85	52.25	55.10		55.18	0.001032	1.21	20.57	11.34	0.29





HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosvalle	12.08			Lat Struct									
Pietrosvalle	11	Max WS	Attuale_agg_2024_np	26.29	51.56	54.46		54.51	0.000809	0.97	27.04	18.17	0.25
Pietrosvalle	11	Max WS	Att_tr30_2024	25.52	51.56	54.43		54.48	0.000811	0.96	26.52	18.16	0.25
Pietrosvalle	10	Max WS	Attuale_agg_2024_np	21.78	51.95	54.44	53.06	54.48	0.000514	0.89	24.36	13.10	0.21
Pietrosvalle	10	Max WS	Att_tr30_2024	21.29	51.95	54.41	53.04	54.45	0.000514	0.89	23.98	13.04	0.21
Pietrosvalle	9.5			Bridge									
Pietrosvalle	9	Max WS	Attuale_agg_2024_np	20.00	51.76	53.72		53.81	0.001994	1.35	14.87	12.08	0.39
Pietrosvalle	9	Max WS	Att_tr30_2024	20.00	51.76	53.72		53.81	0.001994	1.35	14.87	12.08	0.39
Pietrosvalle	8.9			Lat Struct									
Pietrosvalle	8.8			Lat Struct									
Pietrosvalle	8	Max WS	Attuale_agg_2024_np	20.00	51.86	53.72		53.76	0.000853	0.96	20.76	18.20	0.29
Pietrosvalle	8	Max WS	Att_tr30_2024	20.00	51.86	53.72		53.76	0.000853	0.96	20.76	18.20	0.29
Pietrosvalle	7	Max WS	Attuale_agg_2024_np	20.00	51.09	53.70		53.72	0.000356	0.69	29.11	22.01	0.19
Pietrosvalle	7	Max WS	Att_tr30_2024	20.00	51.09	53.70		53.72	0.000356	0.69	29.11	22.01	0.19
Pietrosvalle	6	Max WS	Attuale_agg_2024_np	20.00	50.87	53.69	52.35	53.71	0.000197	0.54	37.01	25.97	0.14
Pietrosvalle	6	Max WS	Att_tr30_2024	20.00	50.87	53.69	52.35	53.71	0.000197	0.54	37.01	25.97	0.14
Pietrosvalle	5	Max WS	Attuale_agg_2024_np	21.77	50.30	52.22	52.25	52.61	0.014209	2.78	7.84	10.98	1.05
Pietrosvalle	5	Max WS	Att_tr30_2024	21.29	50.30	52.20	52.24	52.60	0.014385	2.78	7.65	10.79	1.05
Pietrosvalle	4	Max WS	Attuale_agg_2024_np	20.00	50.27	52.64		52.66	0.000336	0.62	32.43	28.11	0.18
Pietrosvalle	4	Max WS	Att_tr30_2024	20.00	50.27	52.64		52.66	0.000336	0.62	32.43	28.11	0.18
Pietrosvalle	3.9			Lat Struct									
Pietrosvalle	3	Max WS	Attuale_agg_2024_np	20.00	50.27	52.62		52.64	0.000348	0.63	31.95	27.80	0.19
Pietrosvalle	3	Max WS	Att_tr30_2024	20.00	50.27	52.62		52.64	0.000348	0.63	31.95	27.80	0.19
Pietrosvalle	2	Max WS	Attuale_agg_2024_np	20.00	50.27	52.60		52.62	0.000364	0.64	31.34	27.40	0.19
Pietrosvalle	2	Max WS	Att_tr30_2024	20.00	50.27	52.60		52.62	0.000364	0.64	31.34	27.40	0.19

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosovalle	1	Max WS	Attuale_agg_2024_np	21.76	50.27	51.82	51.30	51.92	0.002017	1.42	15.37	14.51	0.44
Pietrosovalle	1	Max WS	Att_tr30_2024	21.28	50.27	51.80	51.29	51.91	0.002020	1.41	15.12	14.44	0.44

RioPietroso Plan: 1) Attuale\_agg\_2024\_np 2) Att\_tr30\_2024

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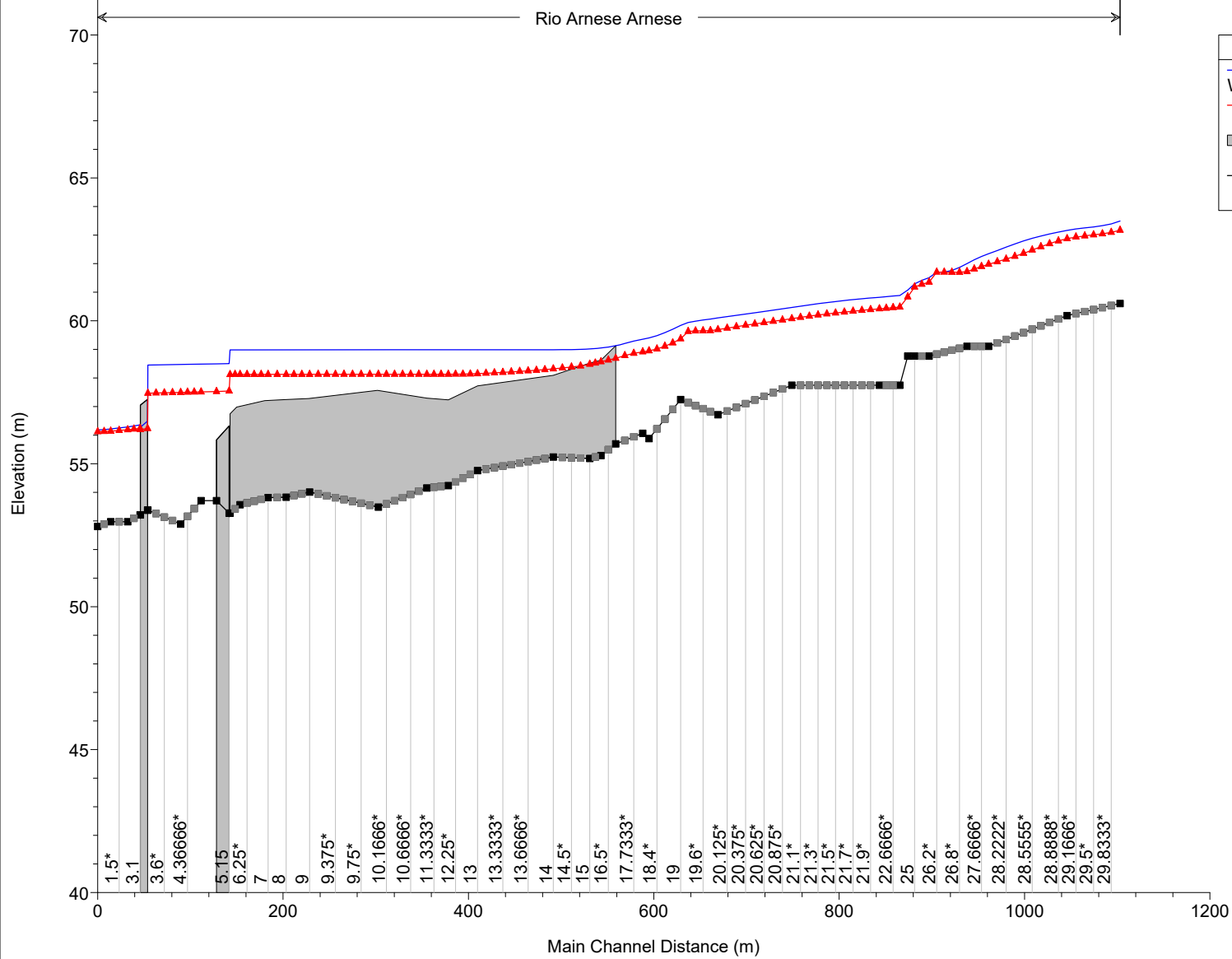
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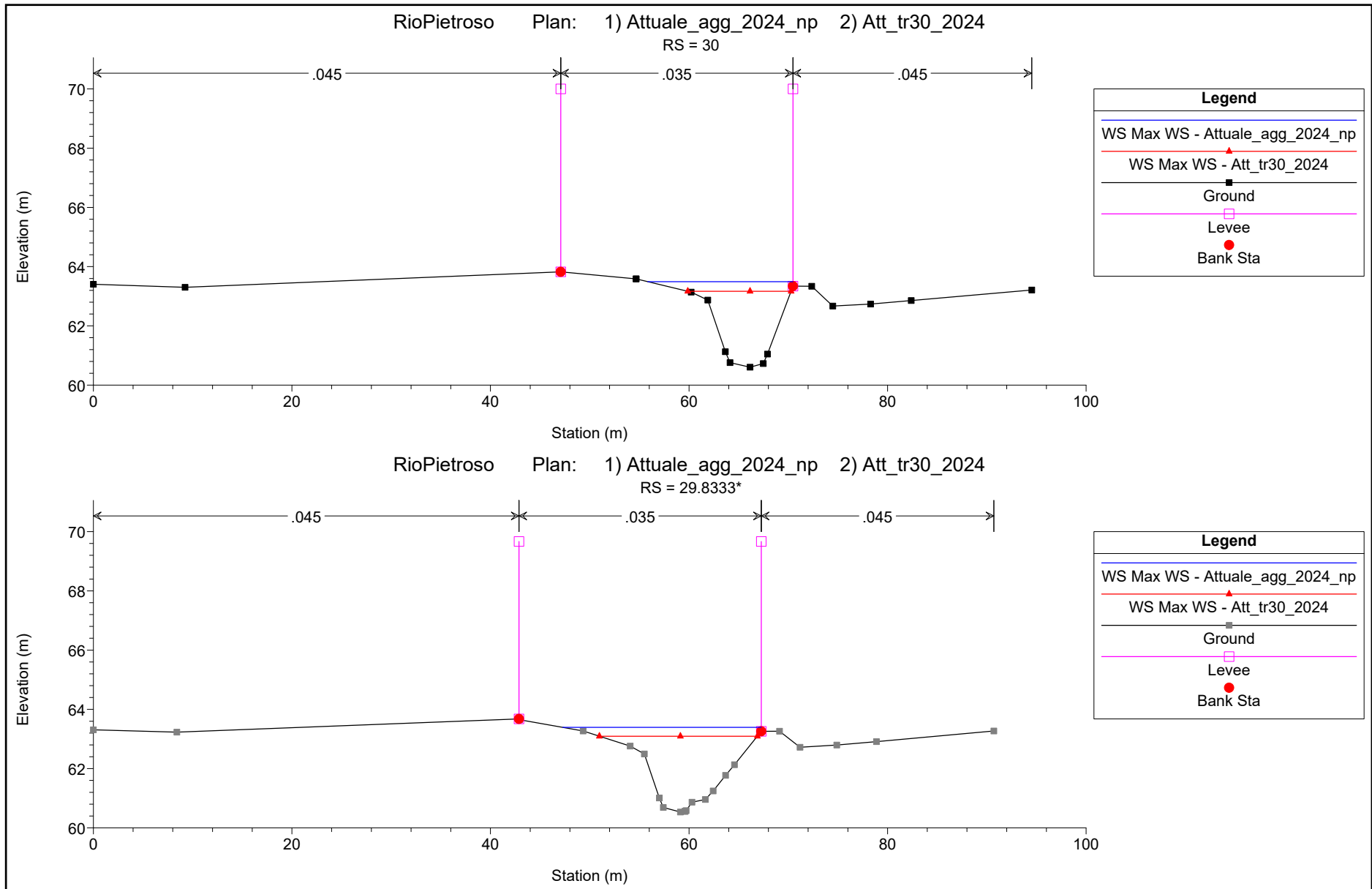
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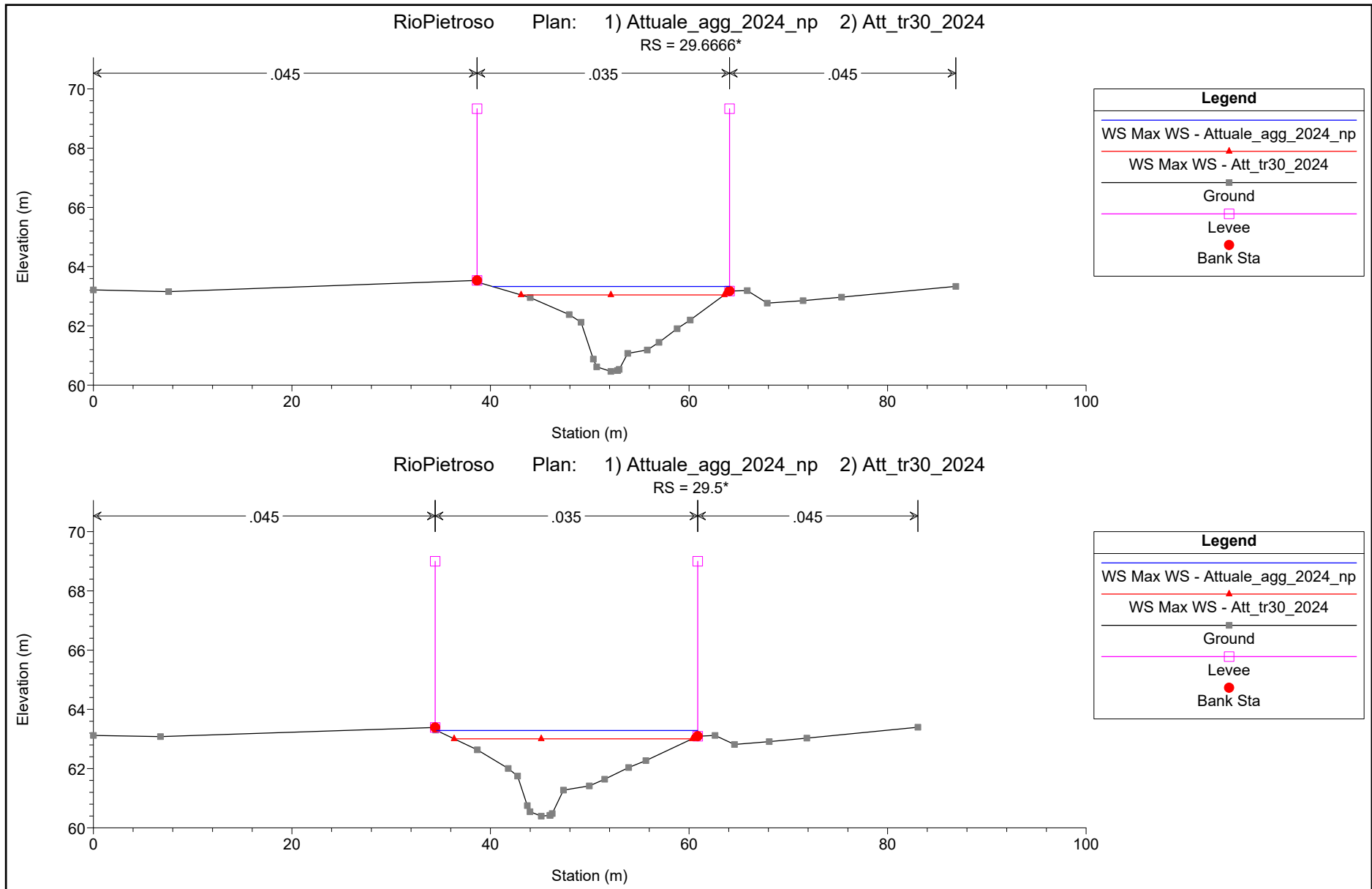
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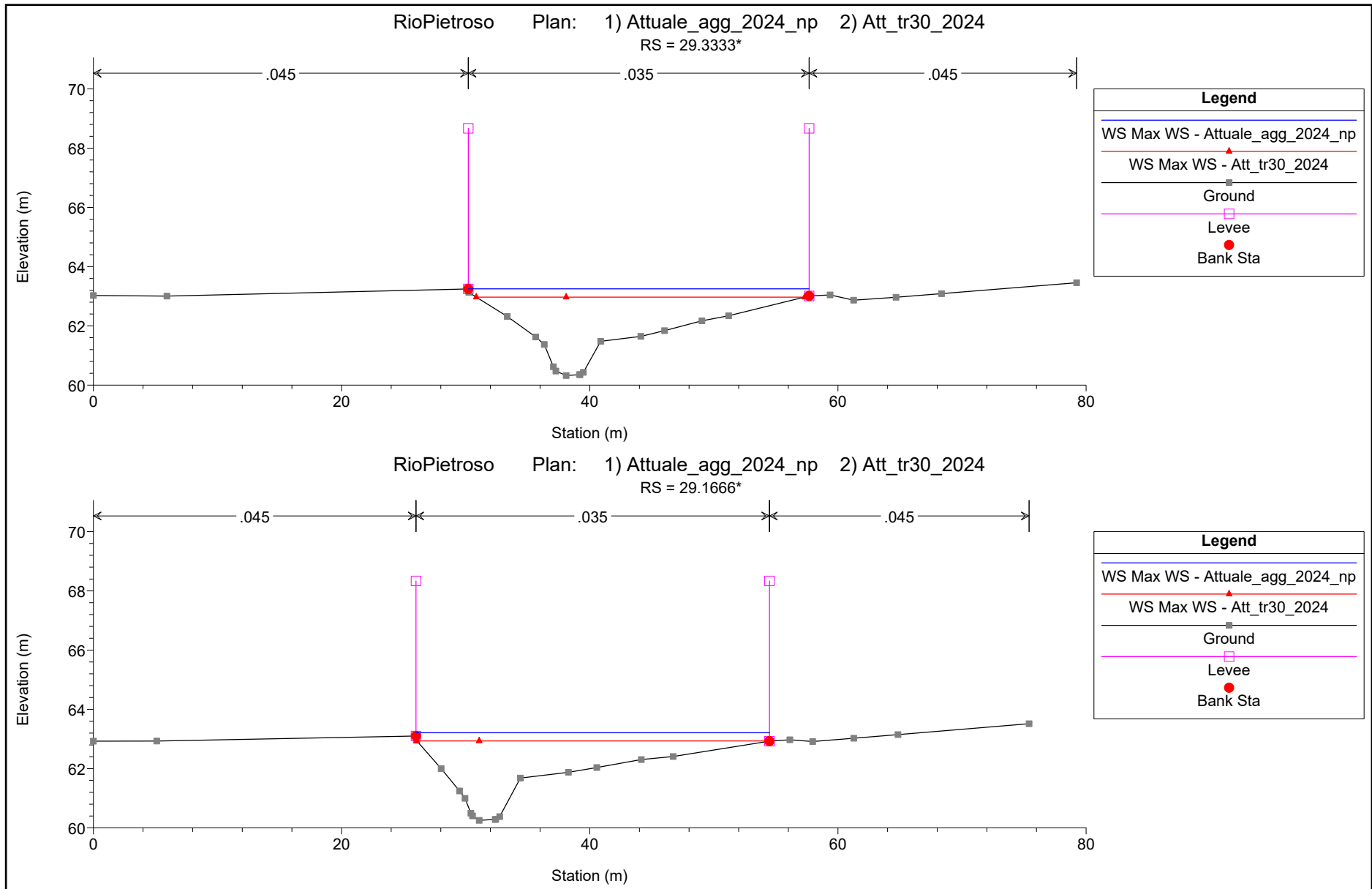
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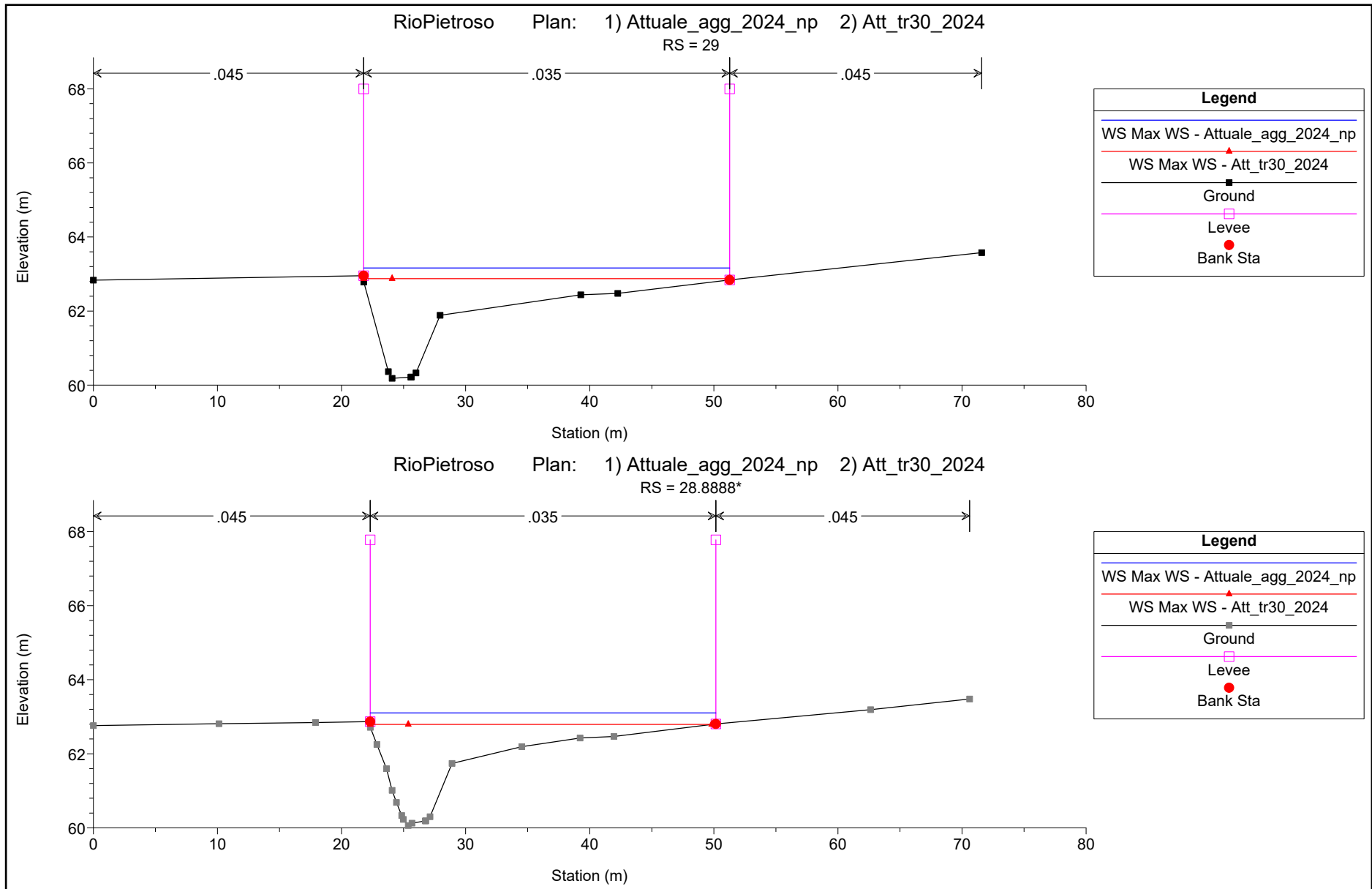
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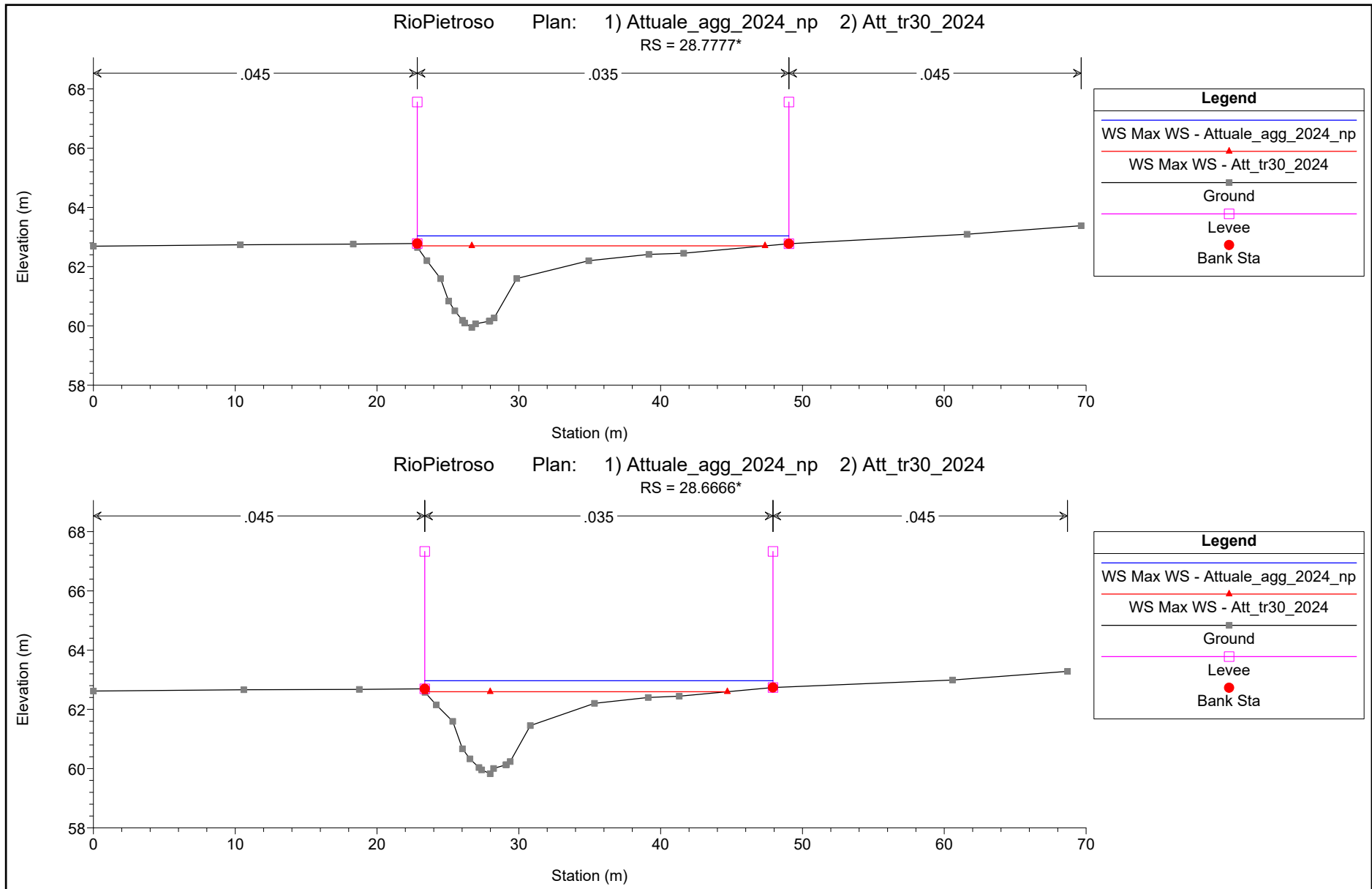




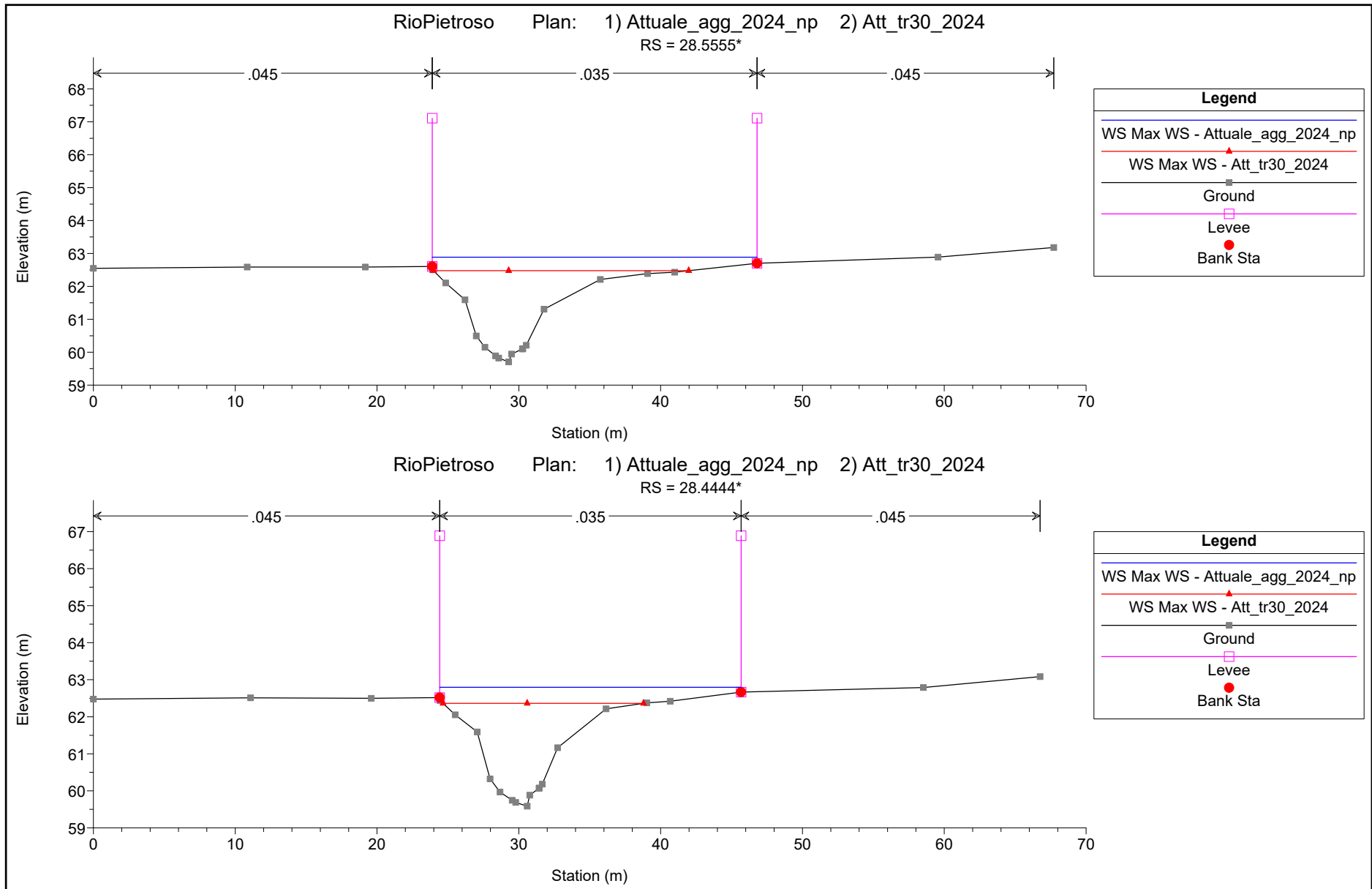


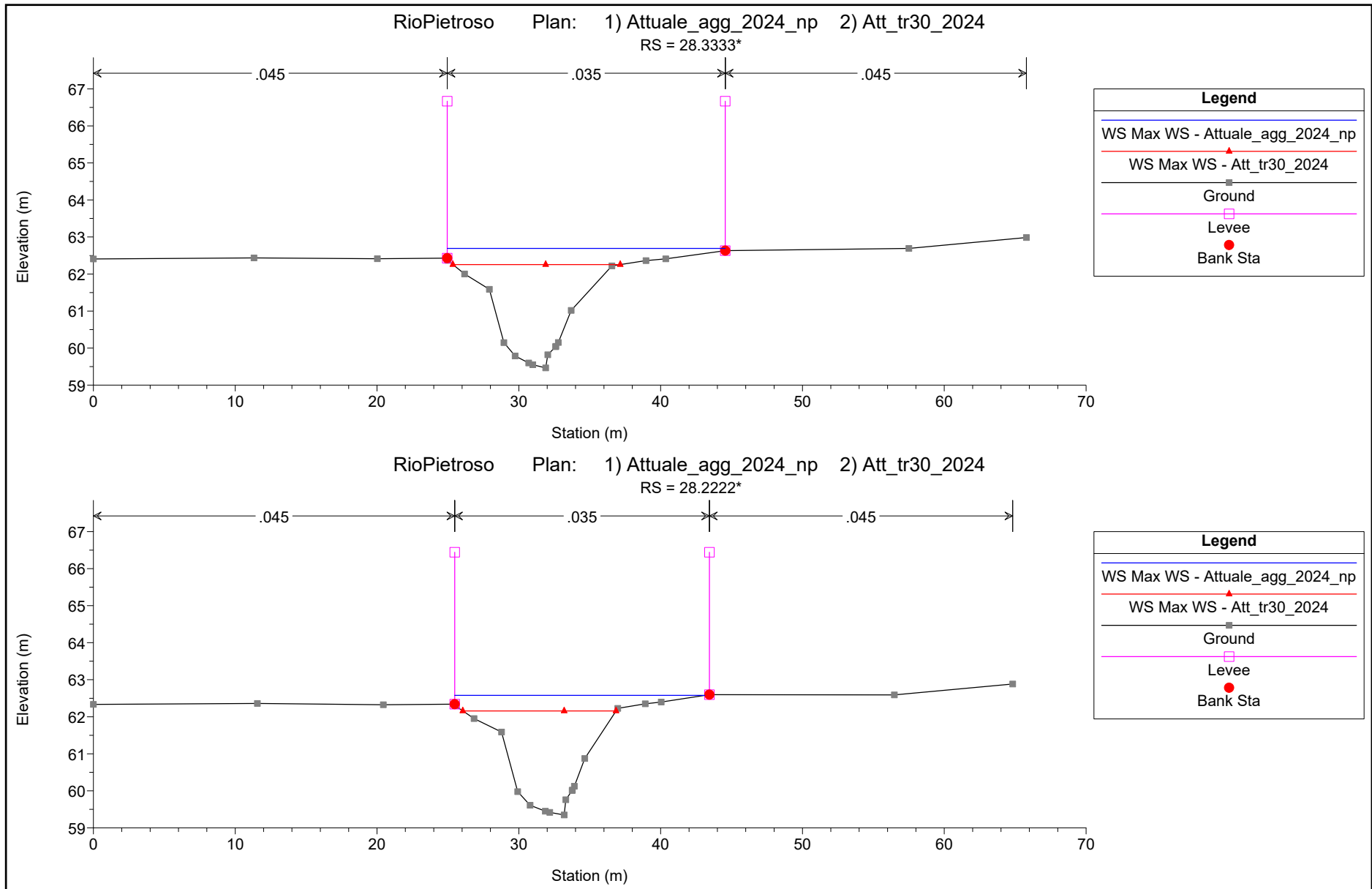


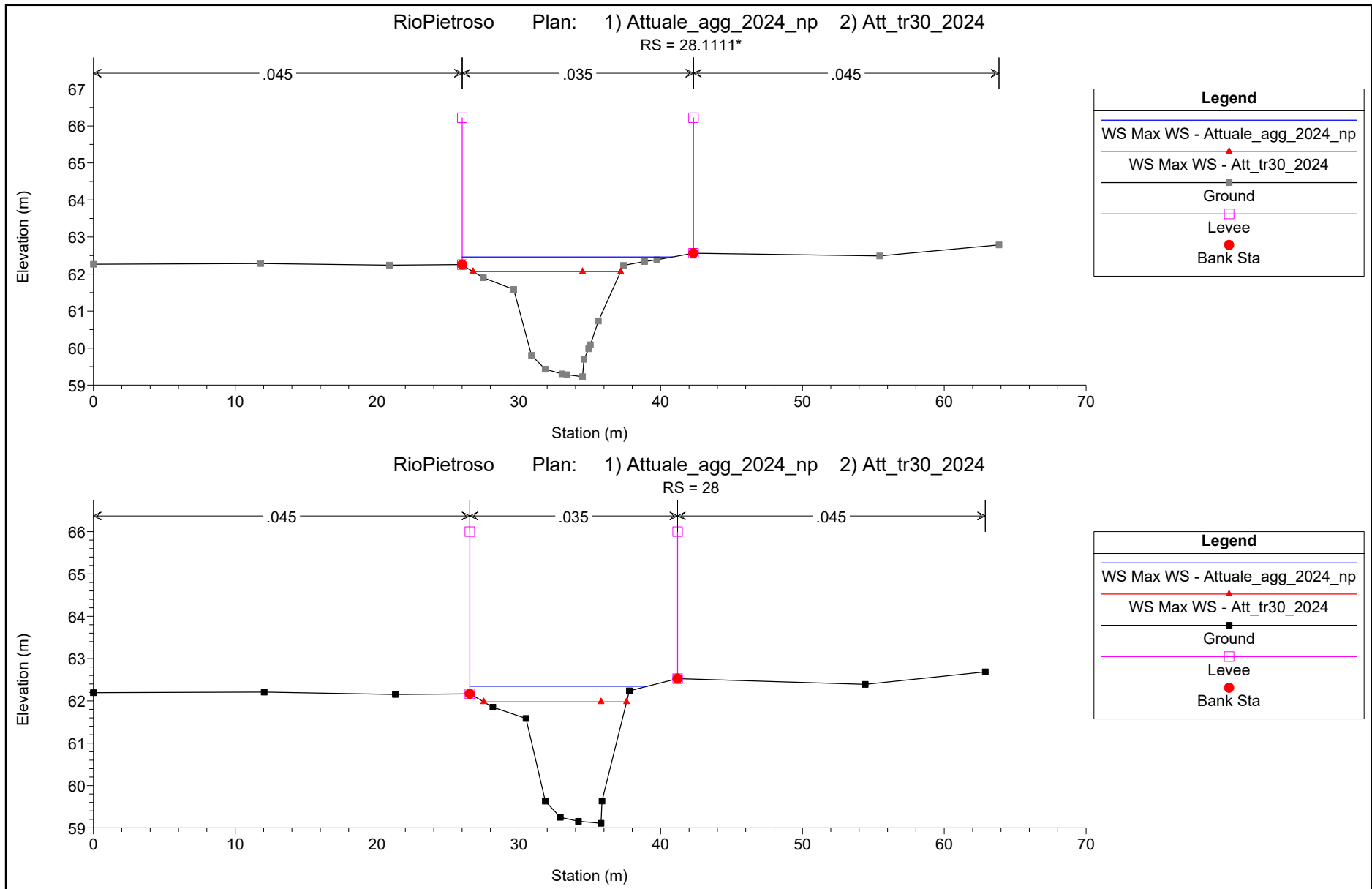


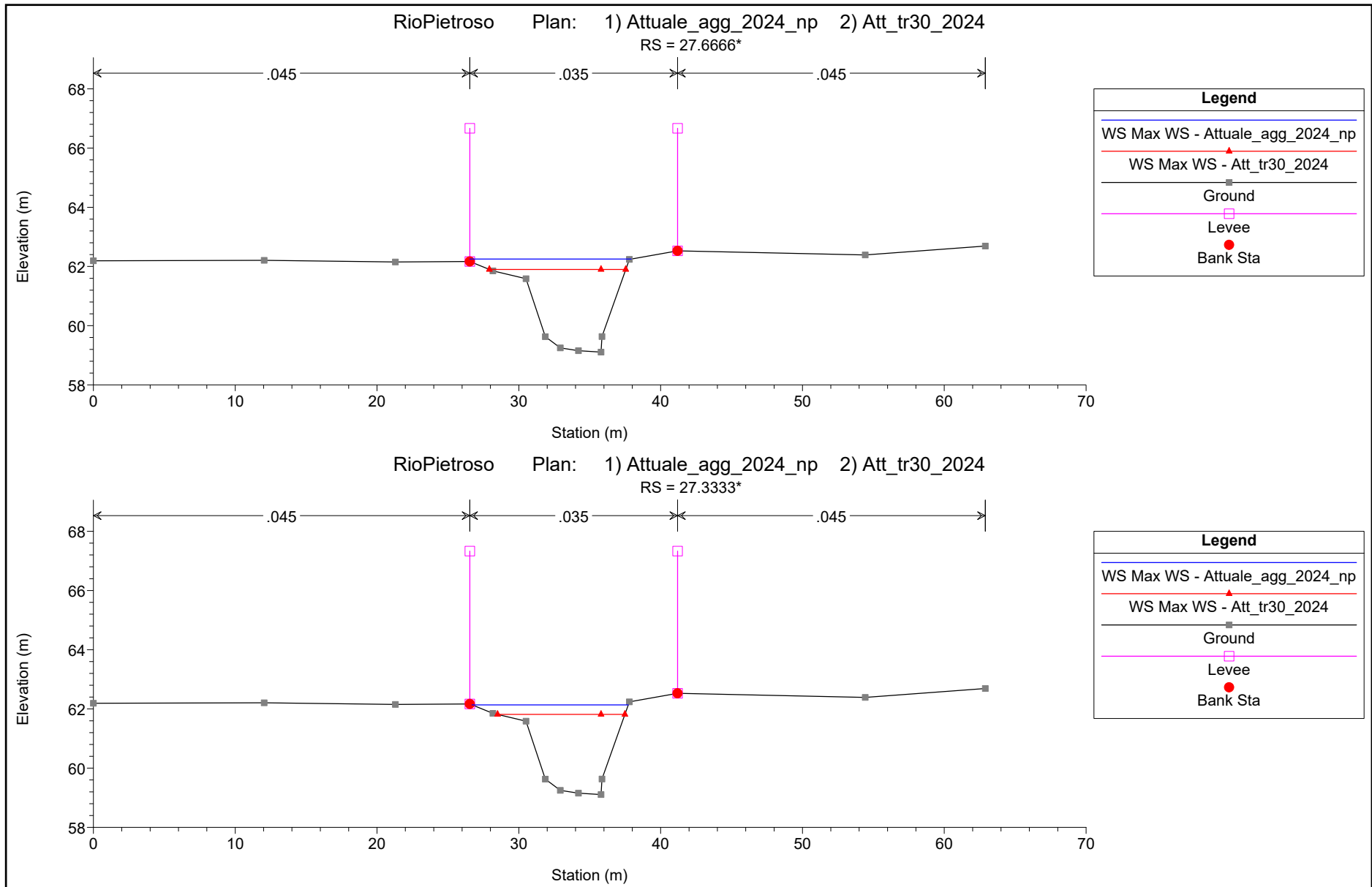


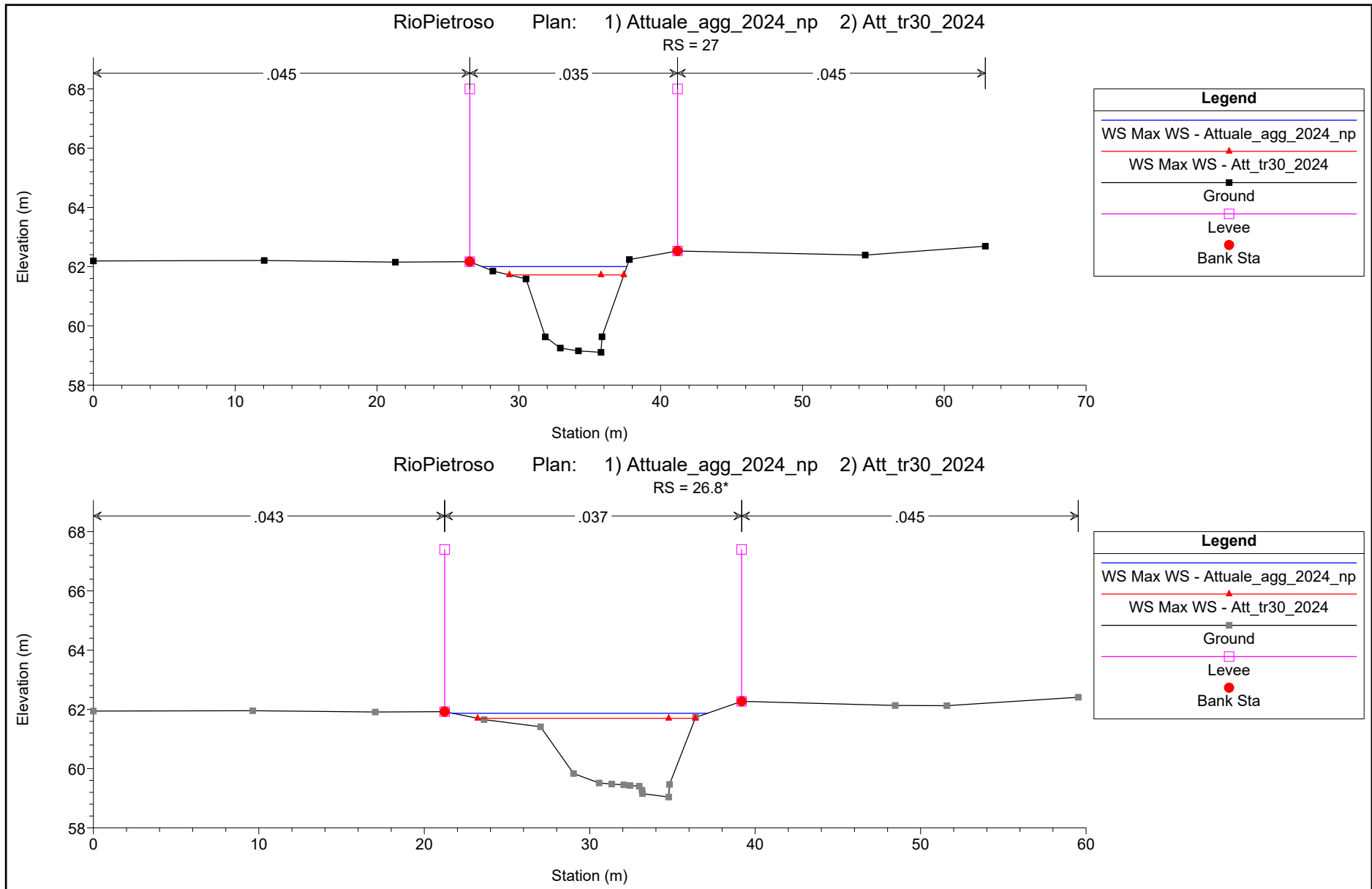


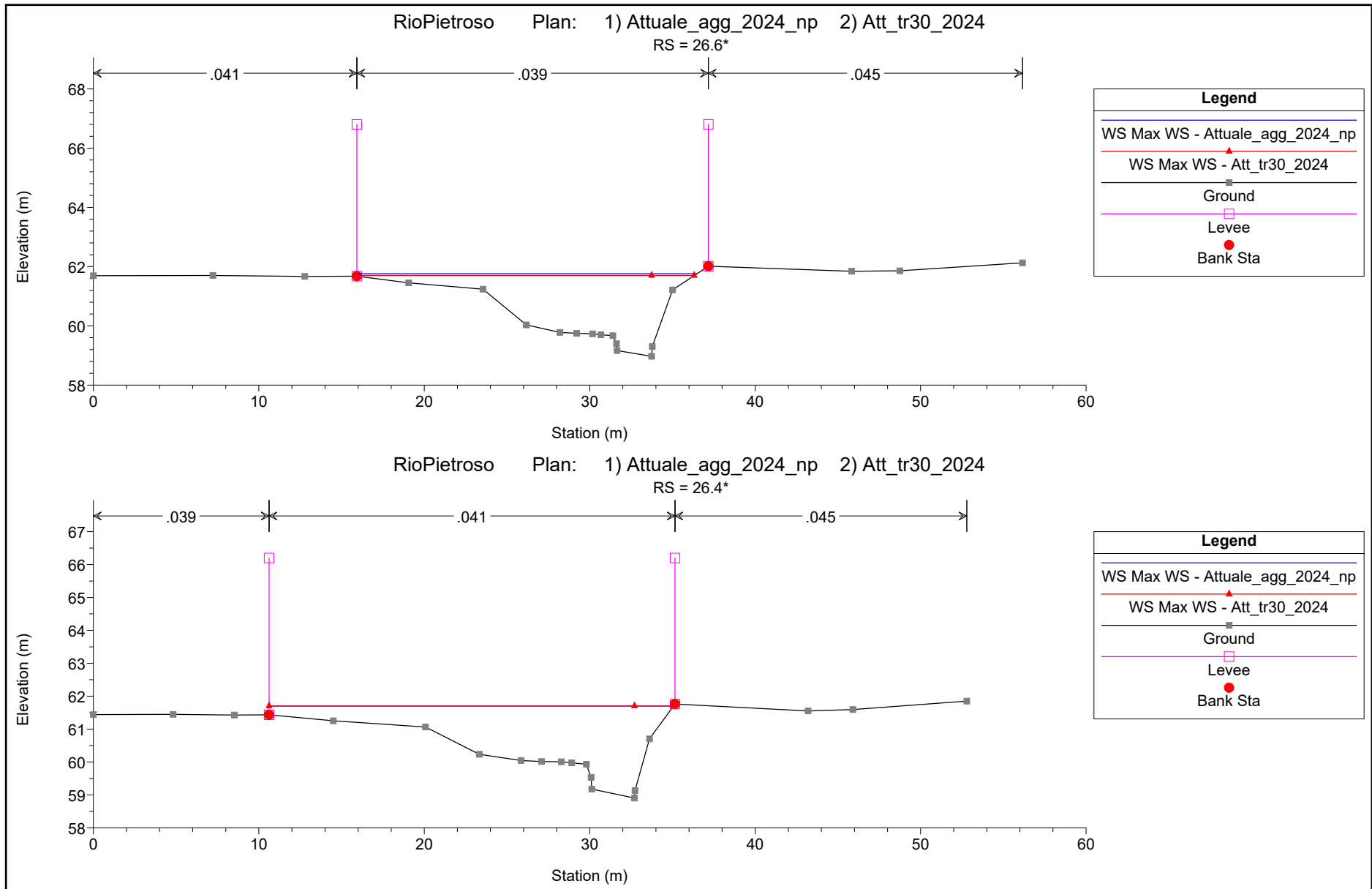


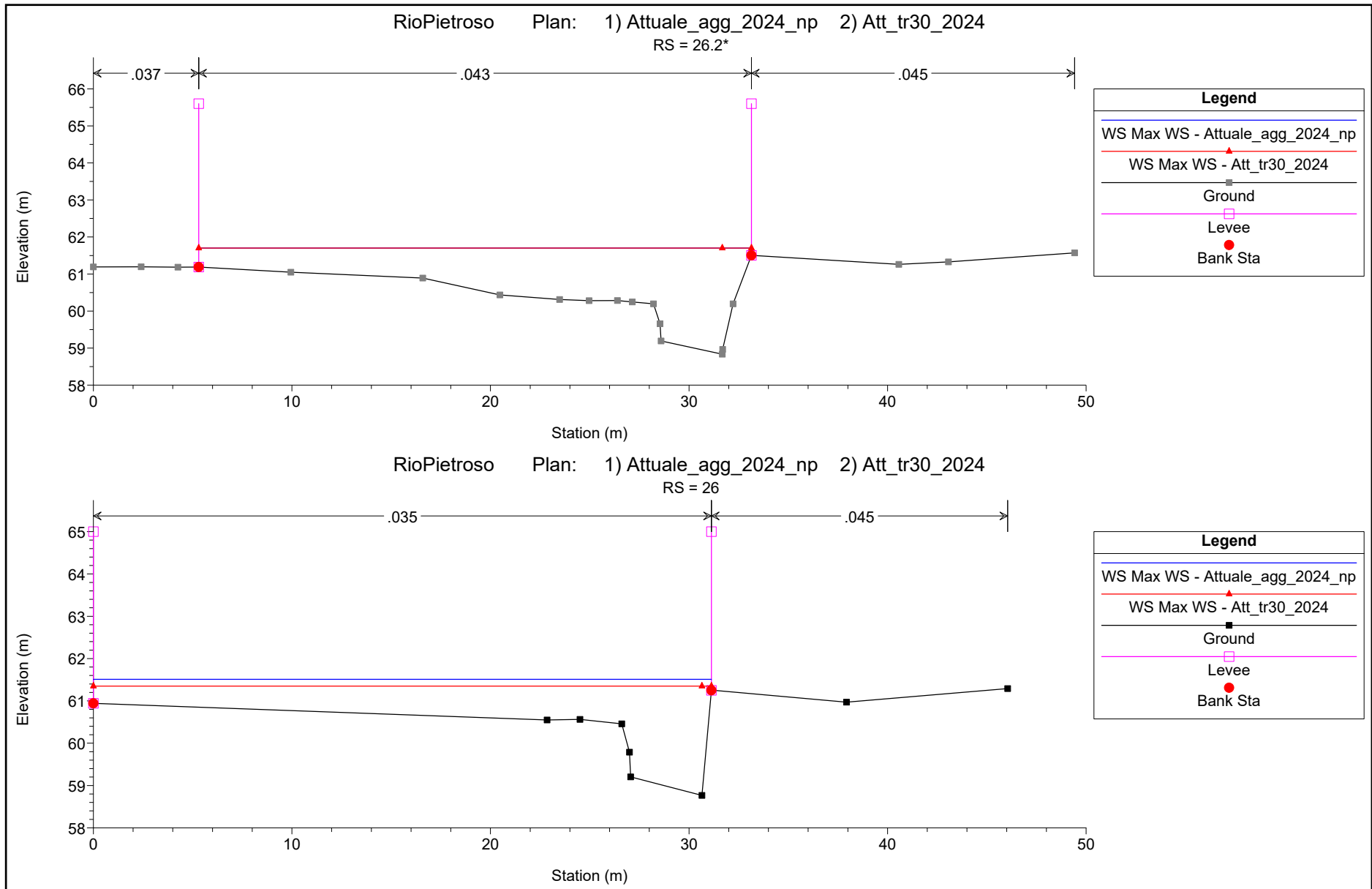


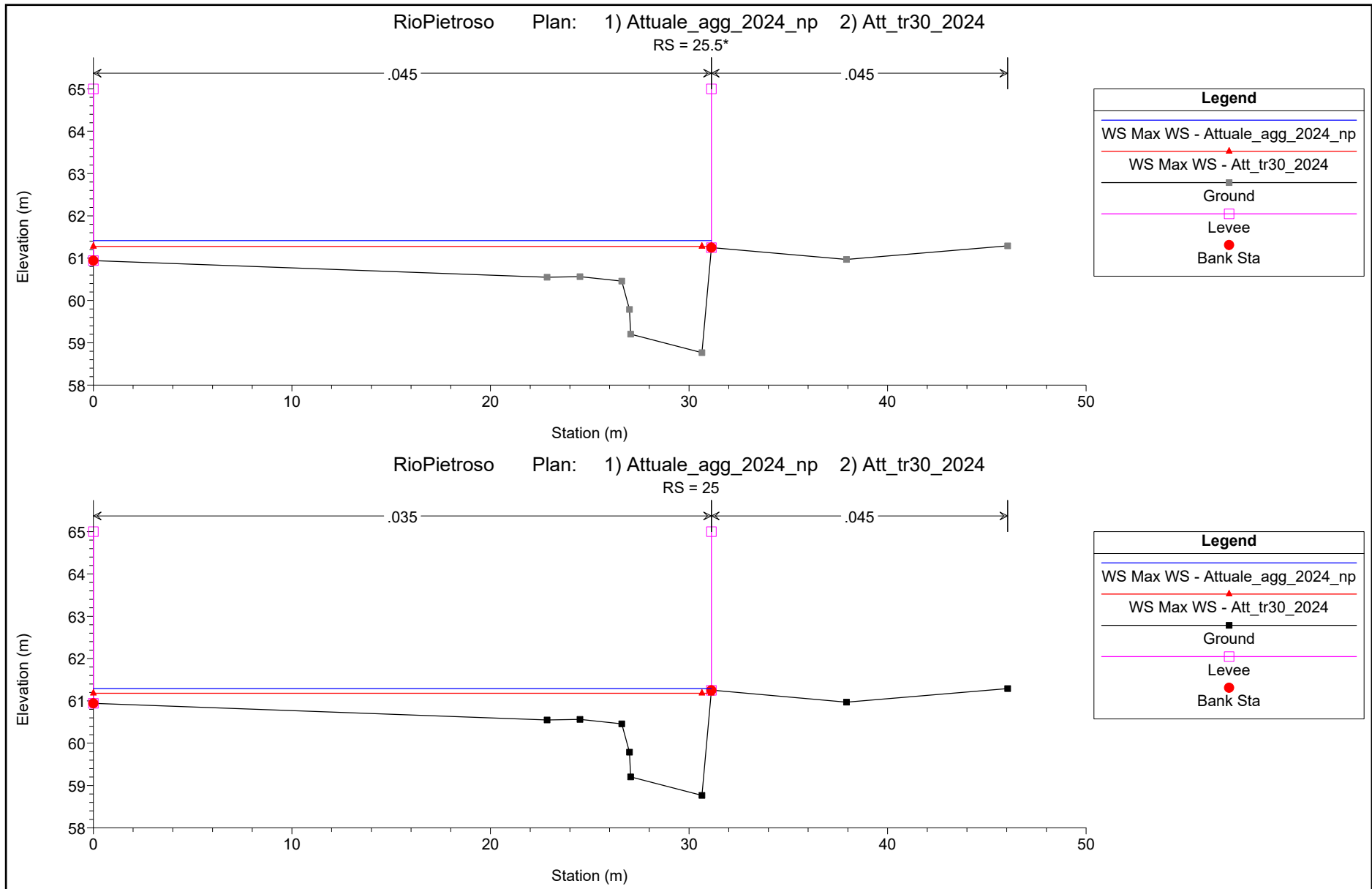




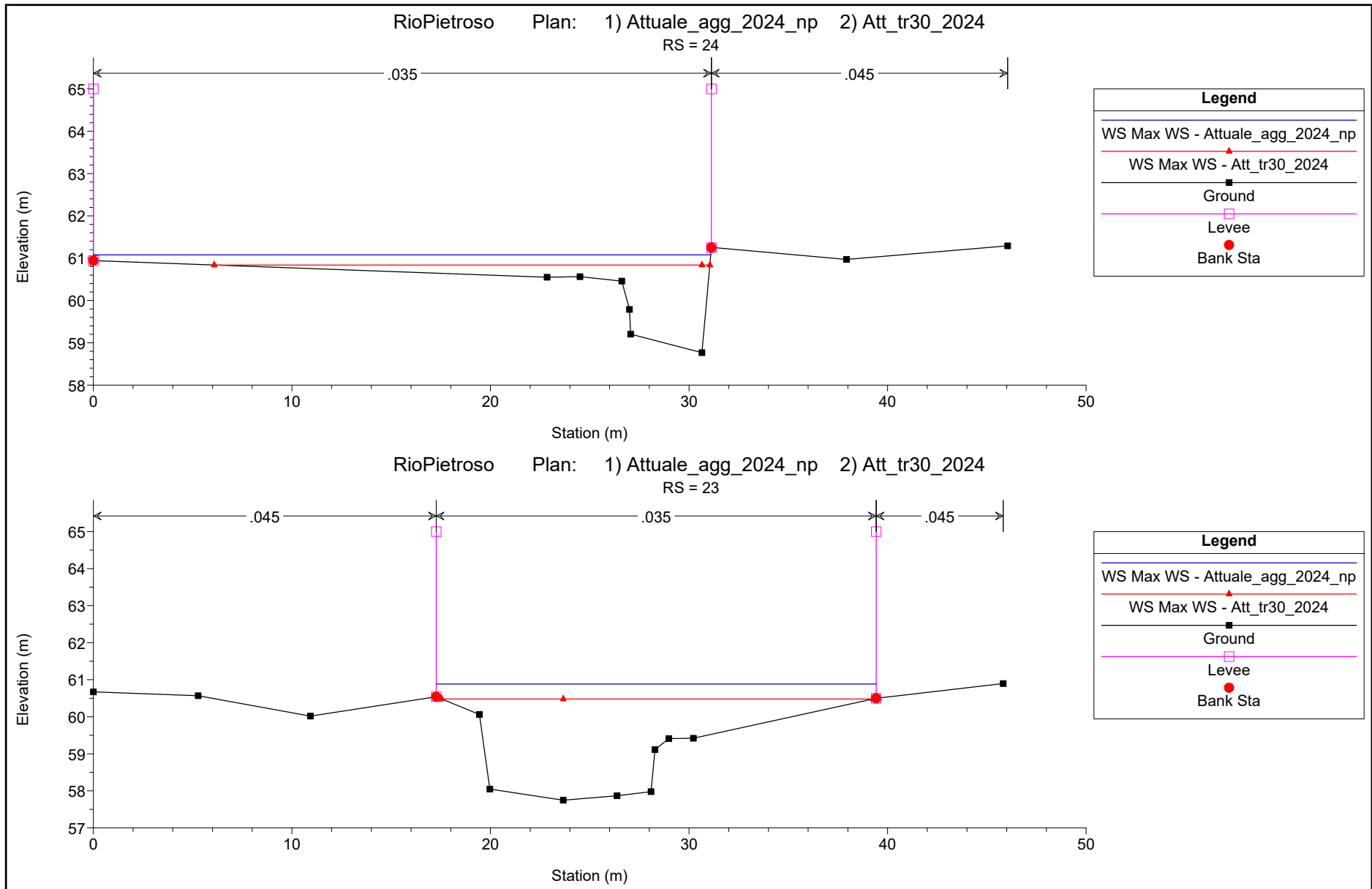


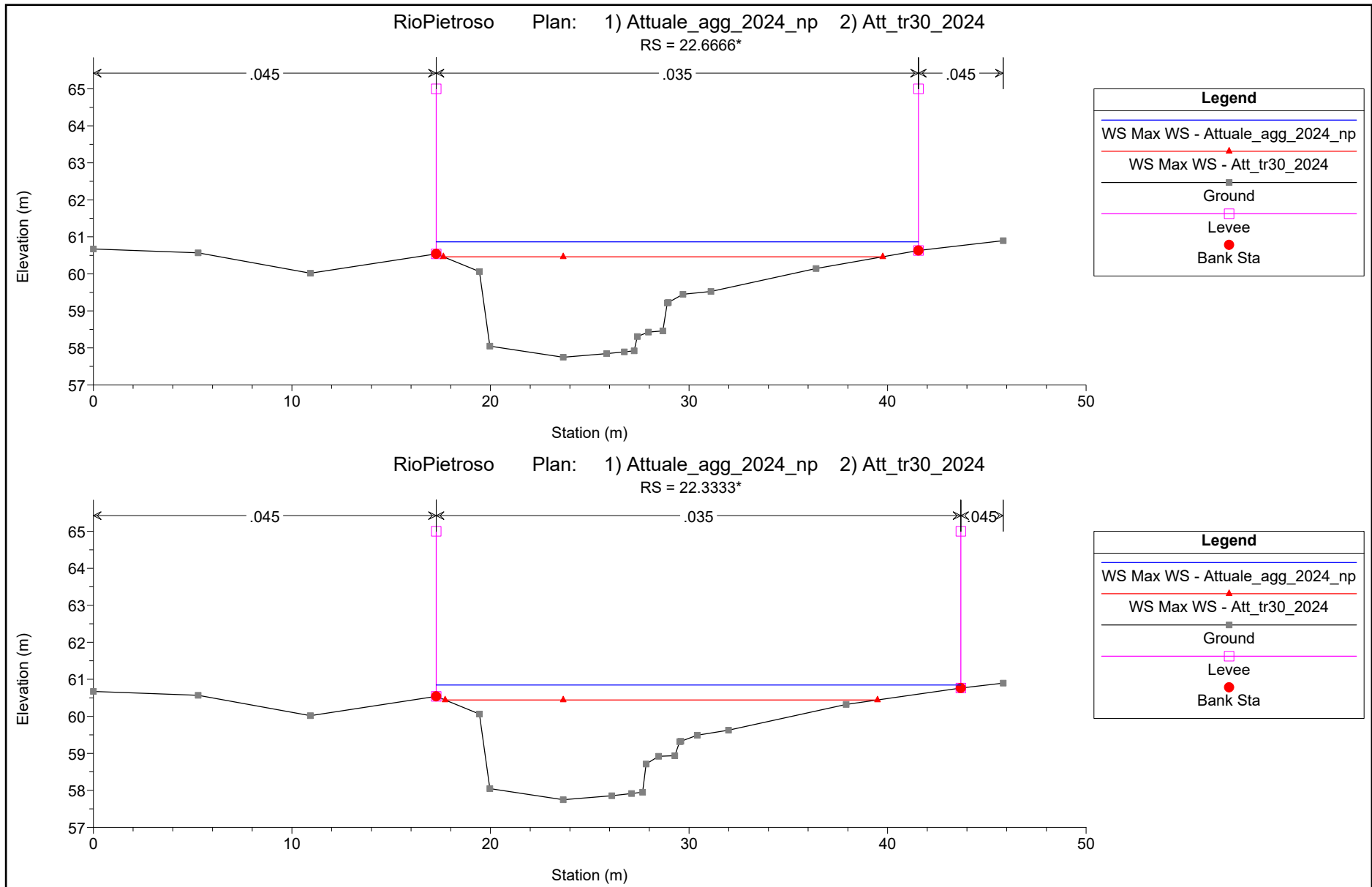


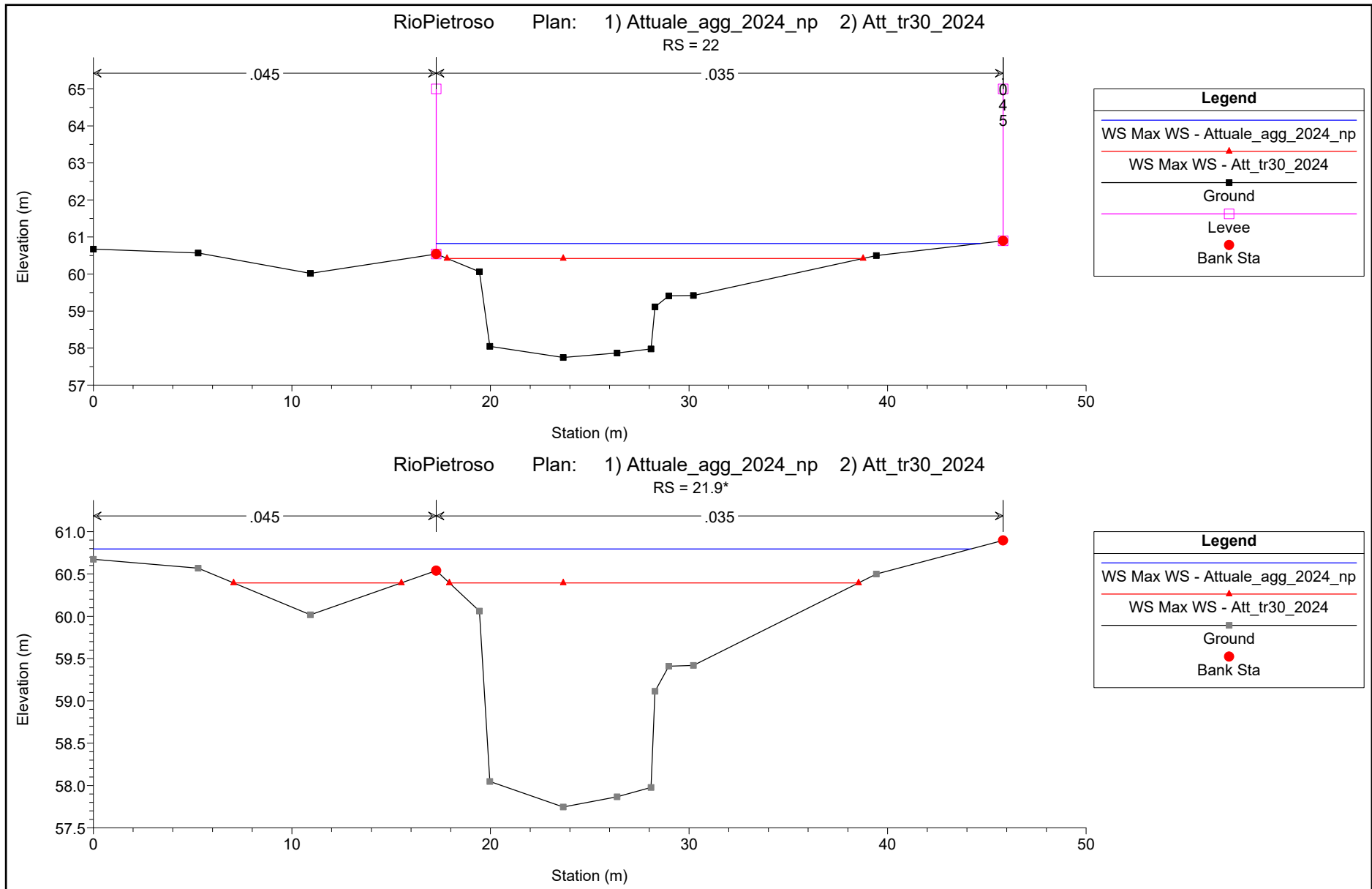


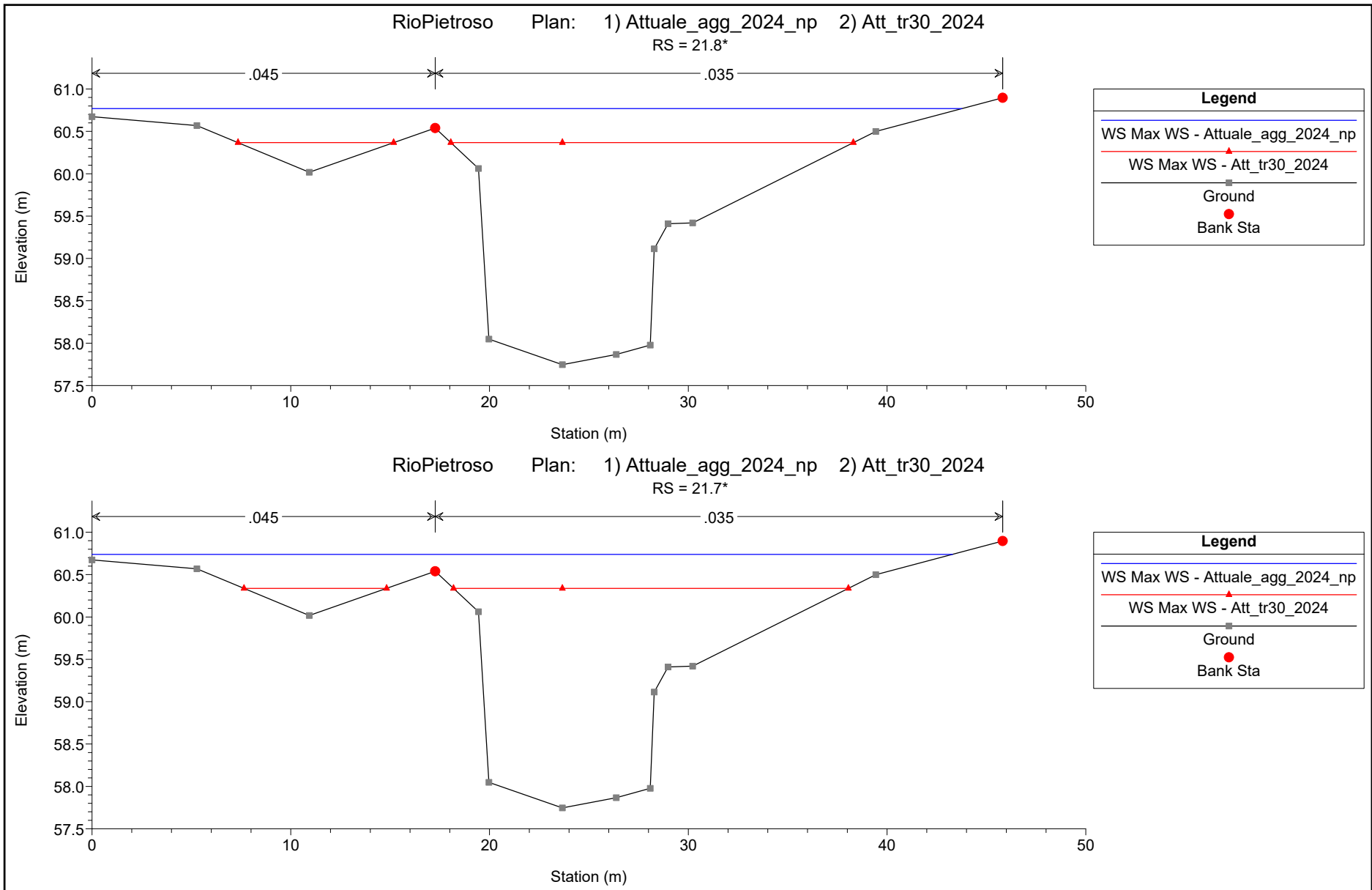


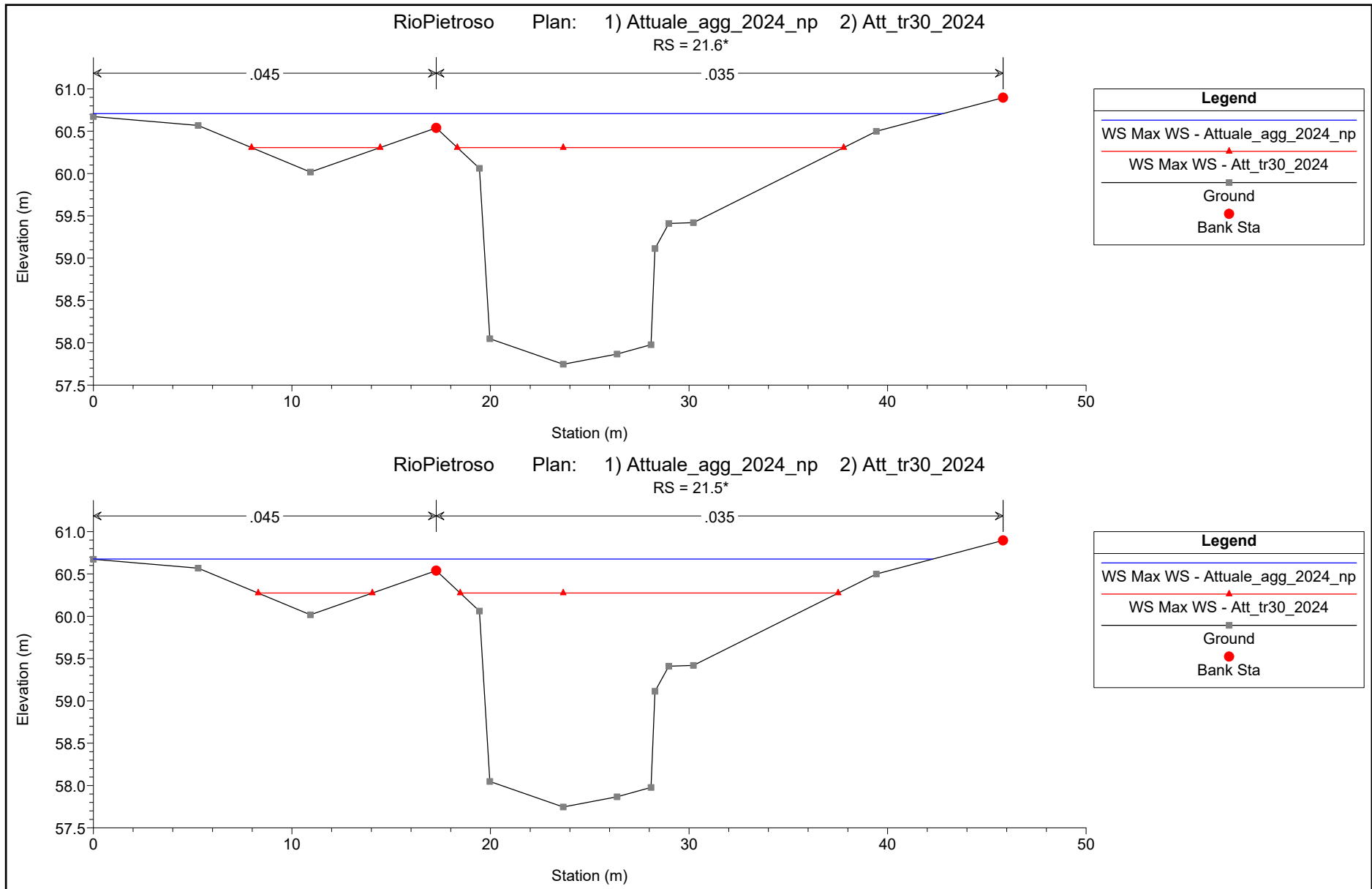


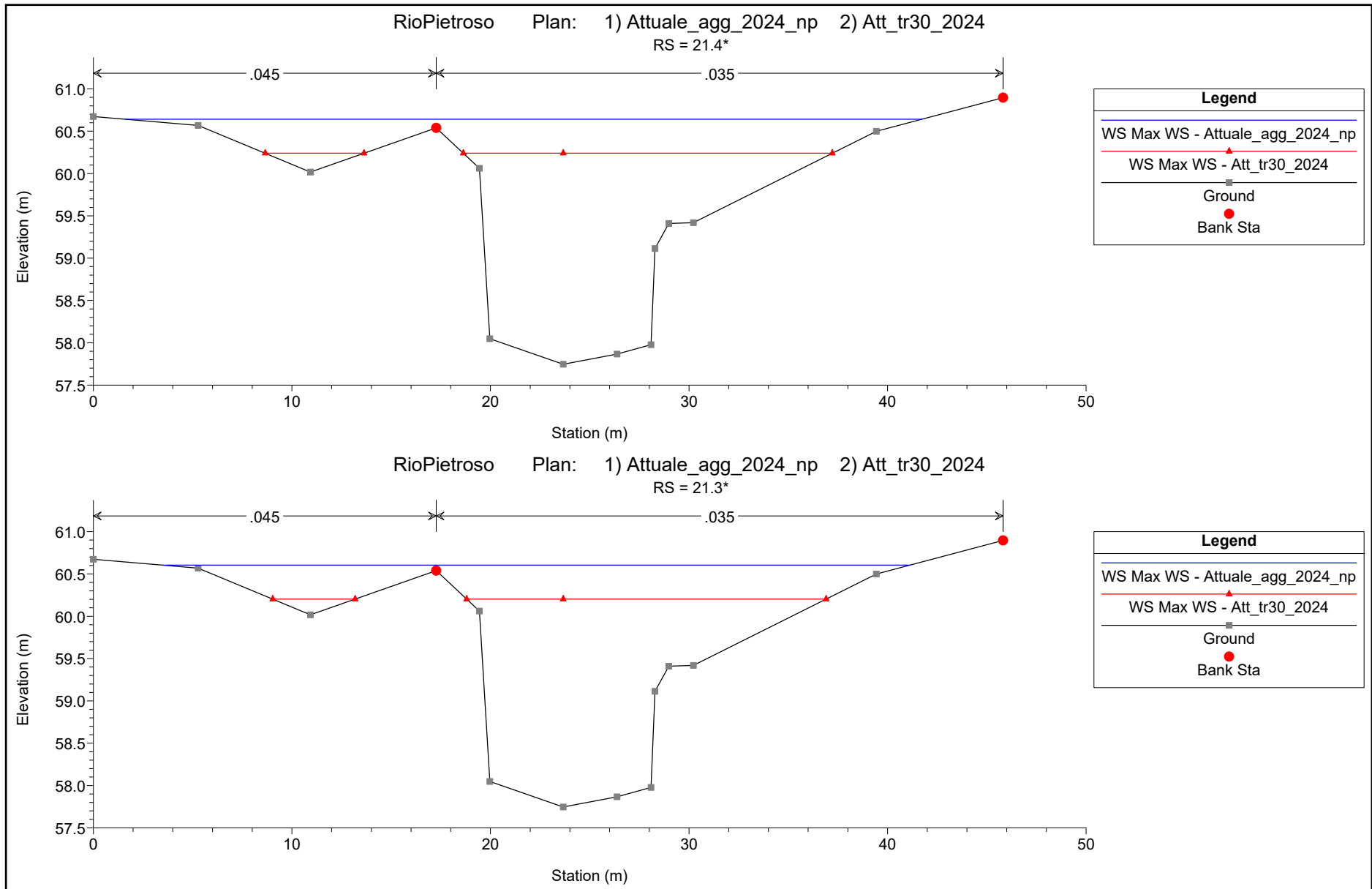


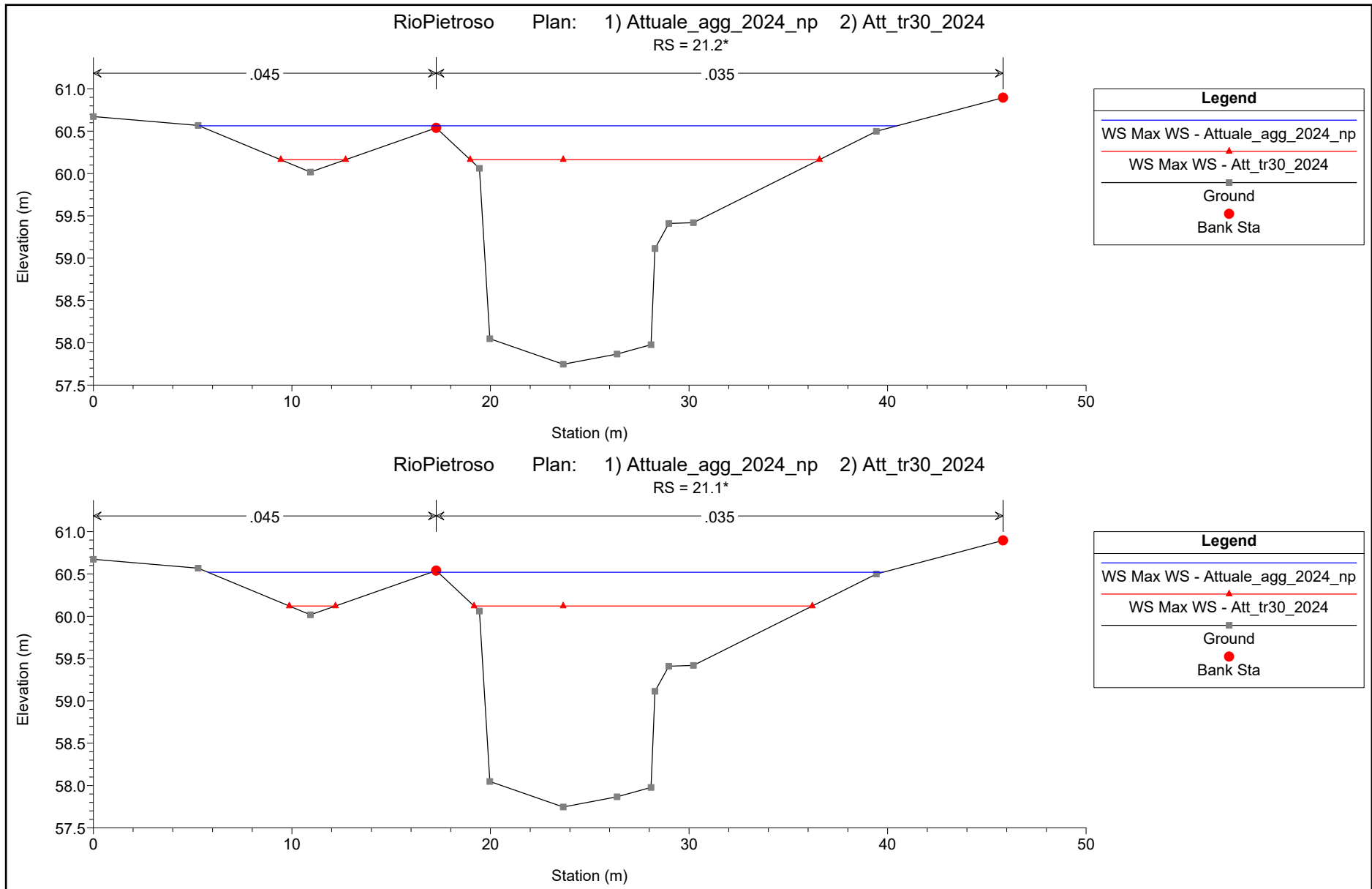


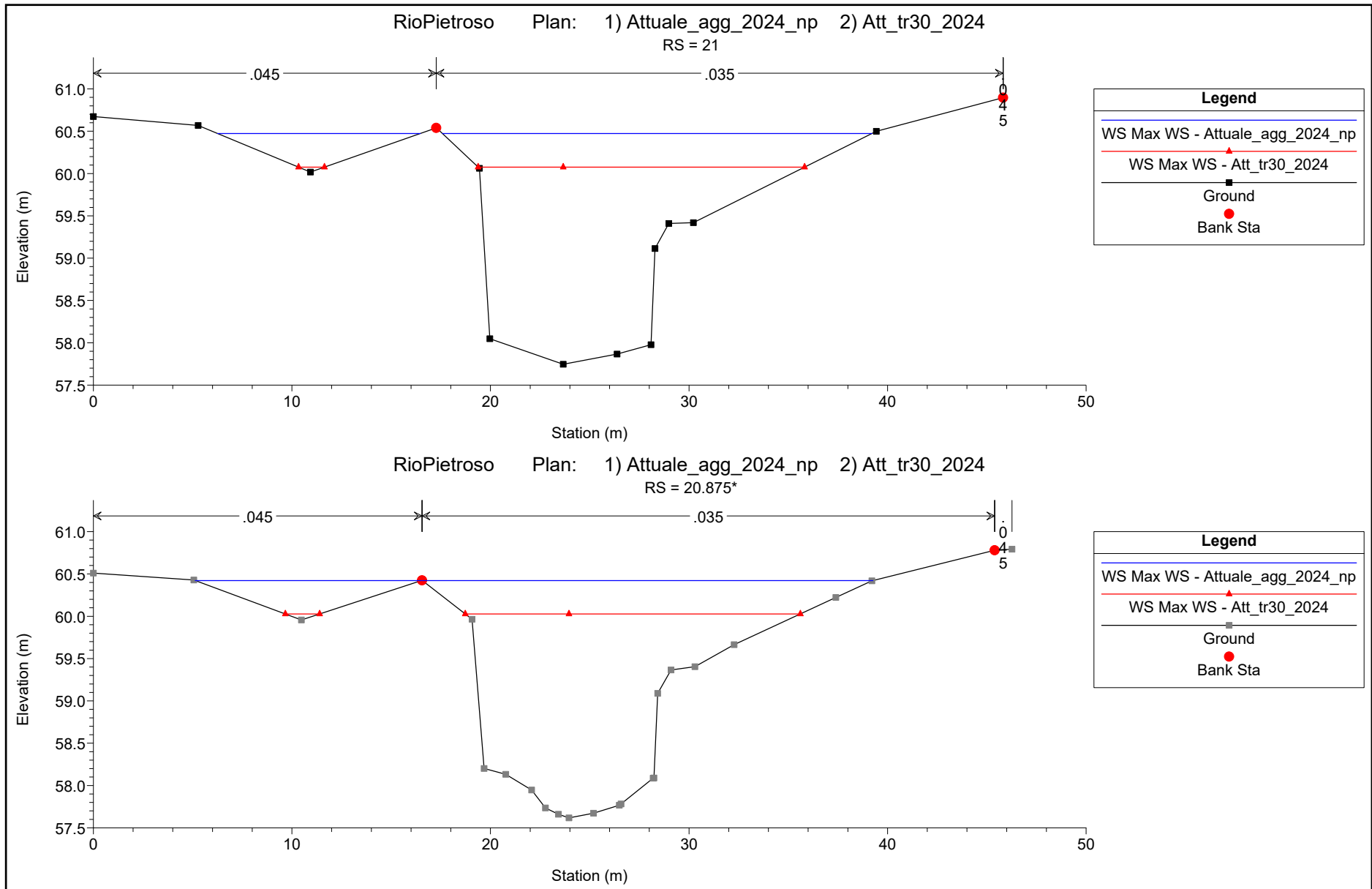




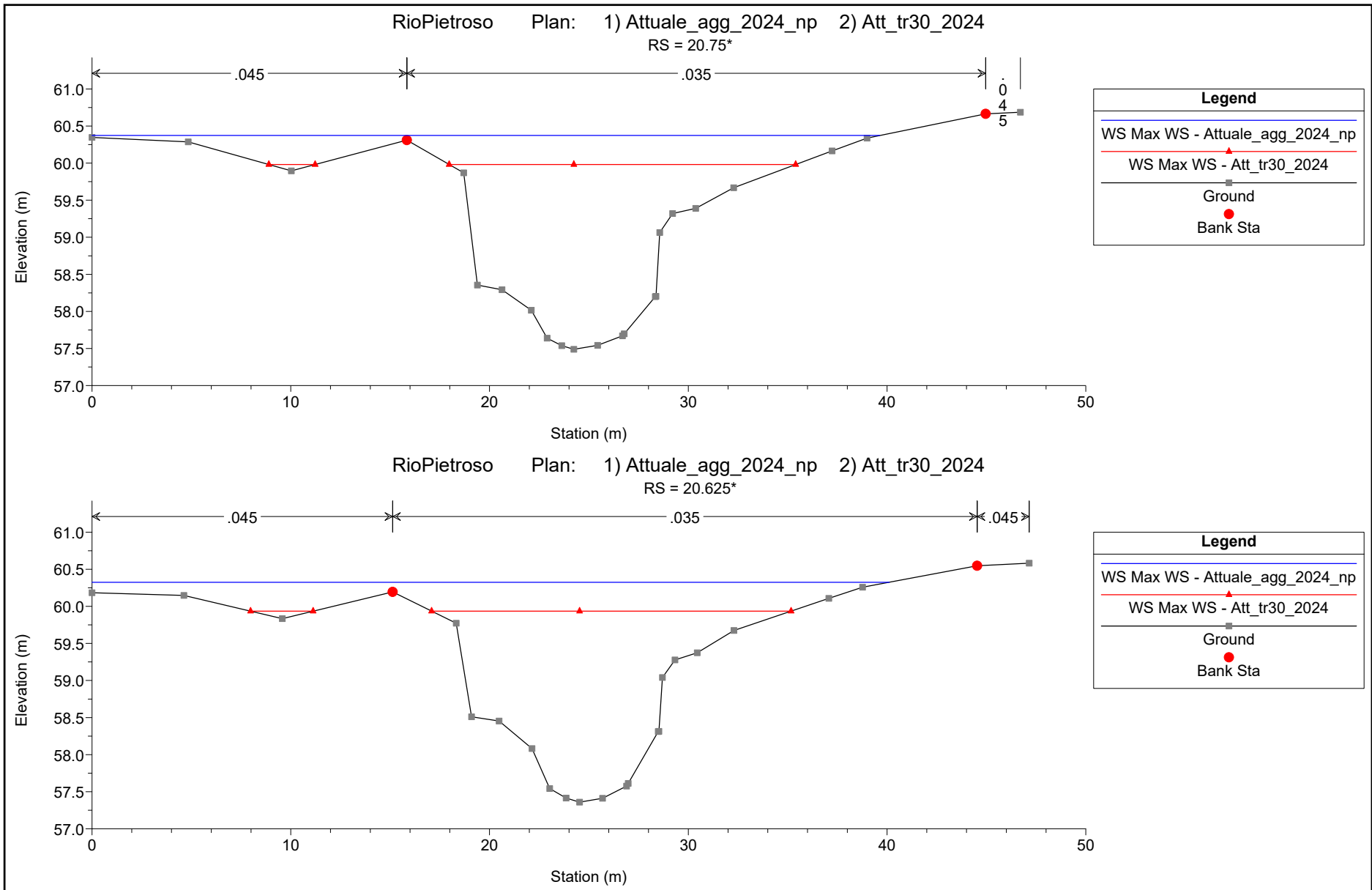


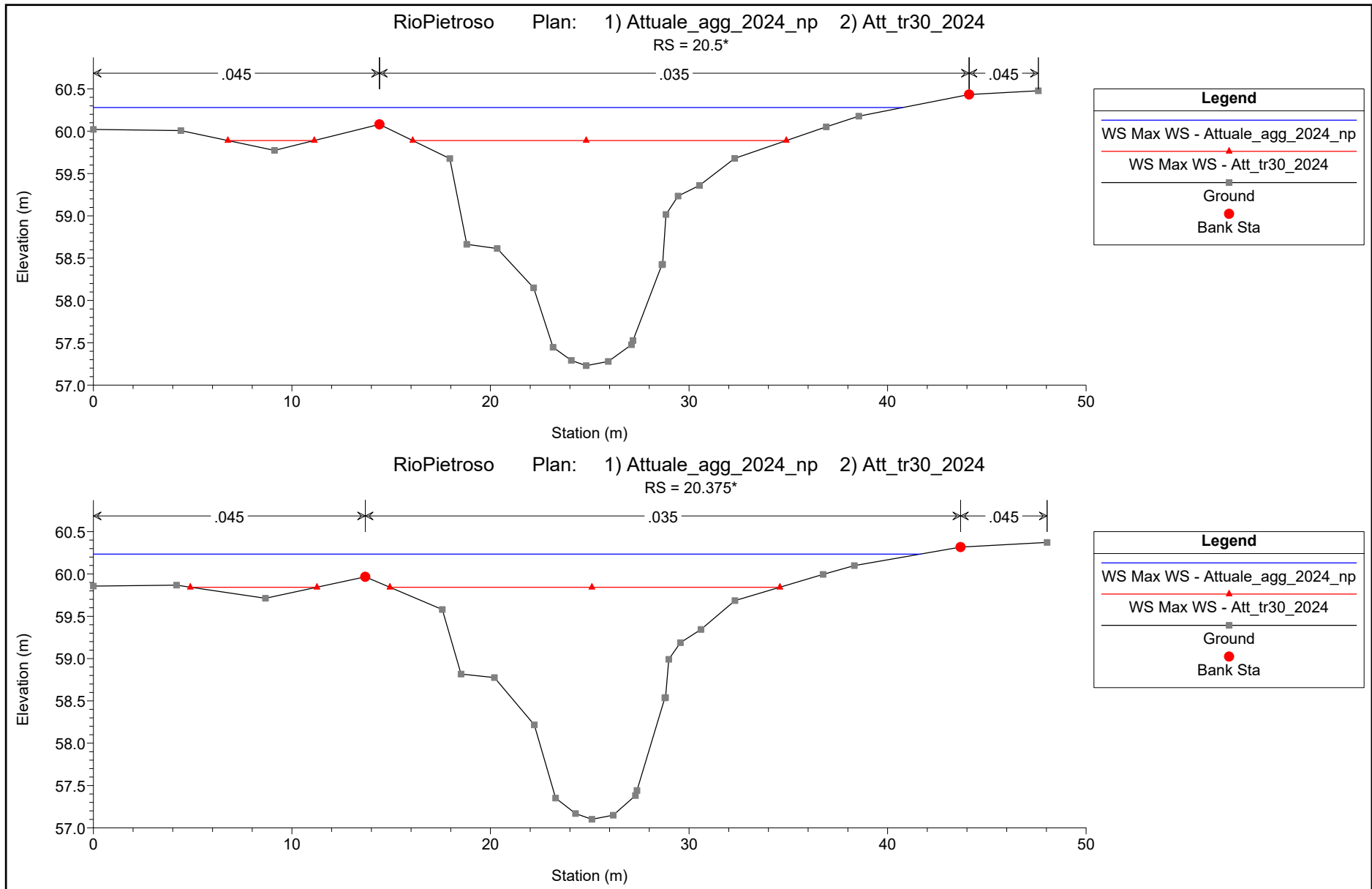


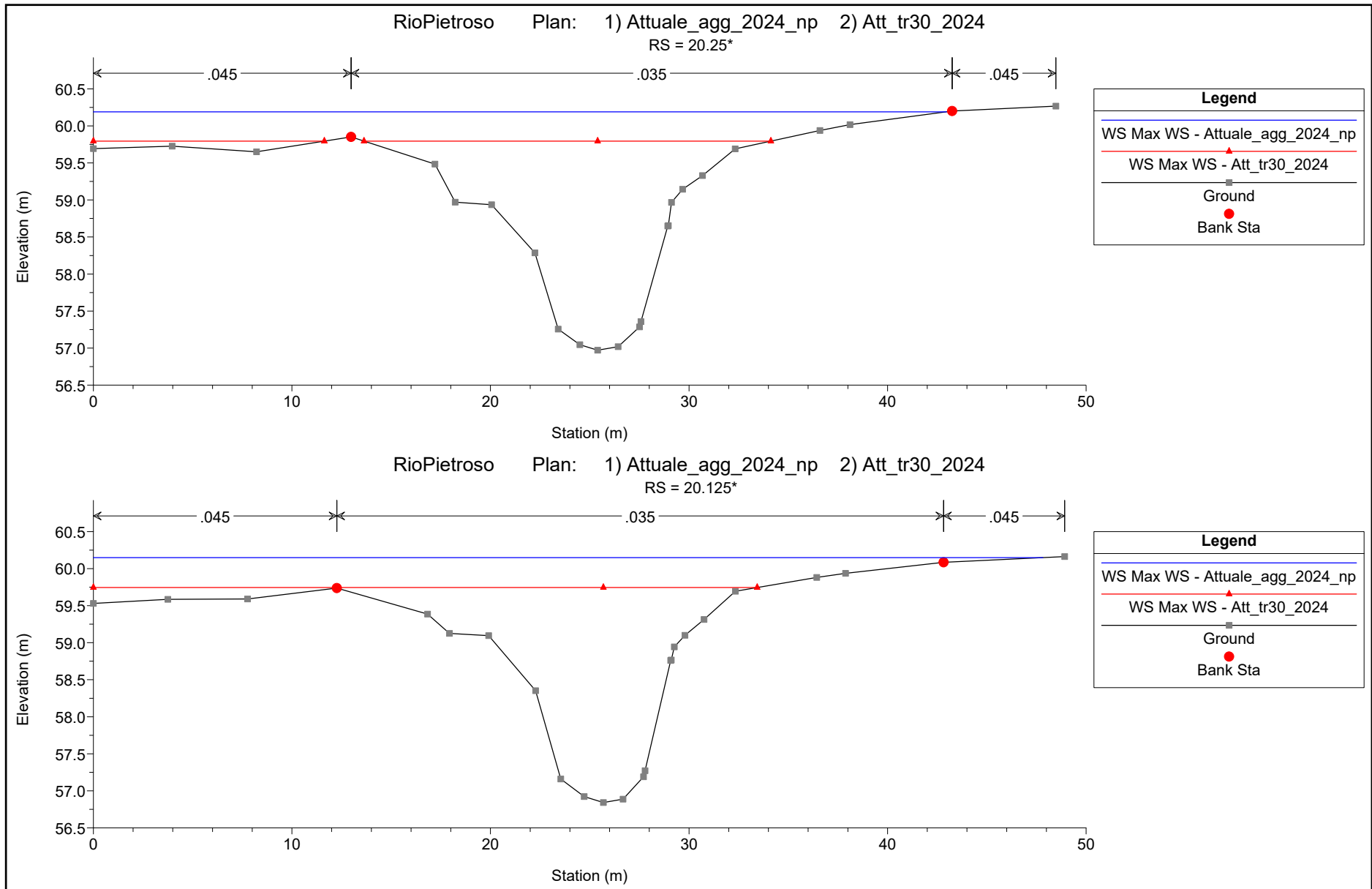


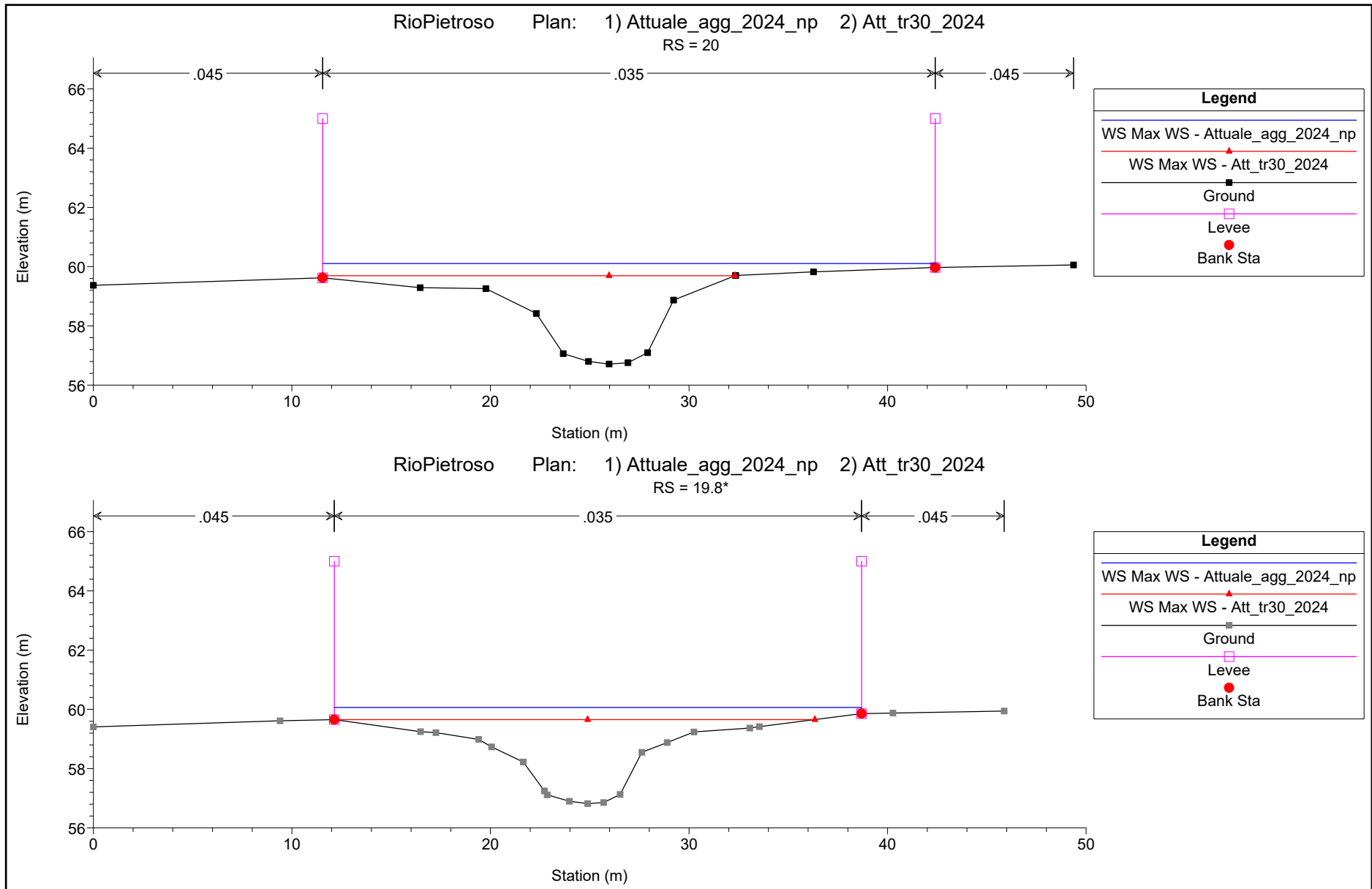


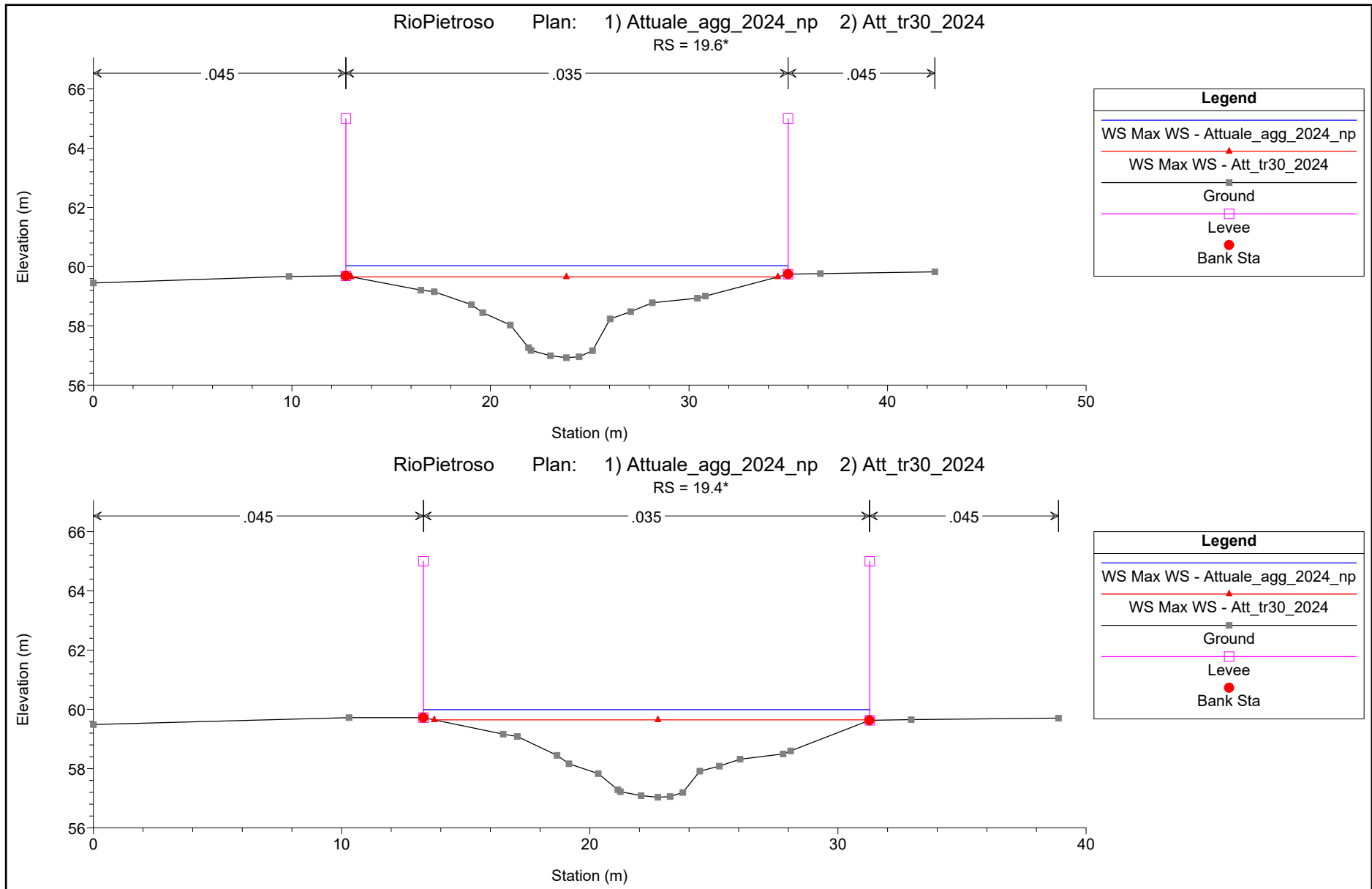


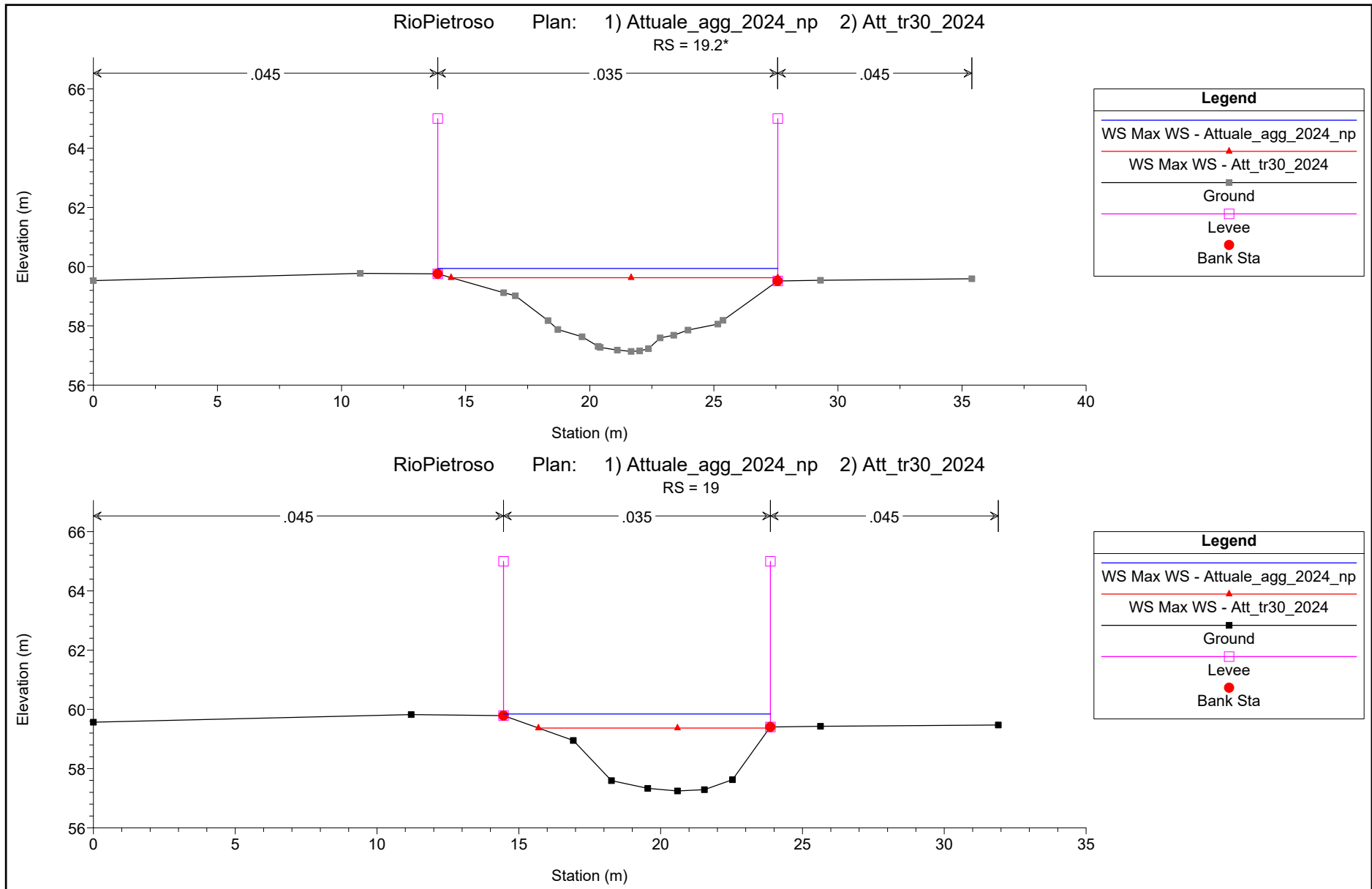


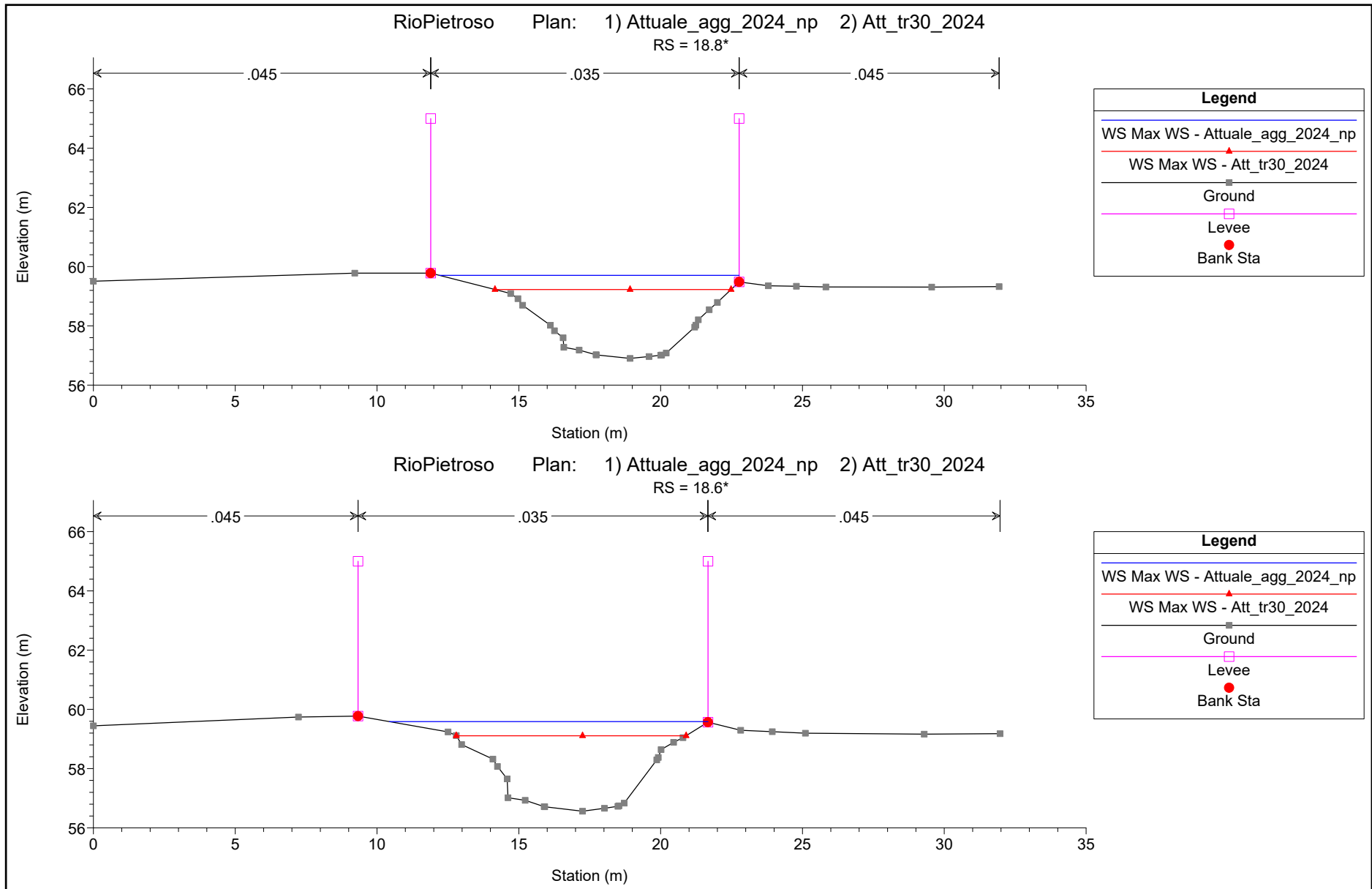


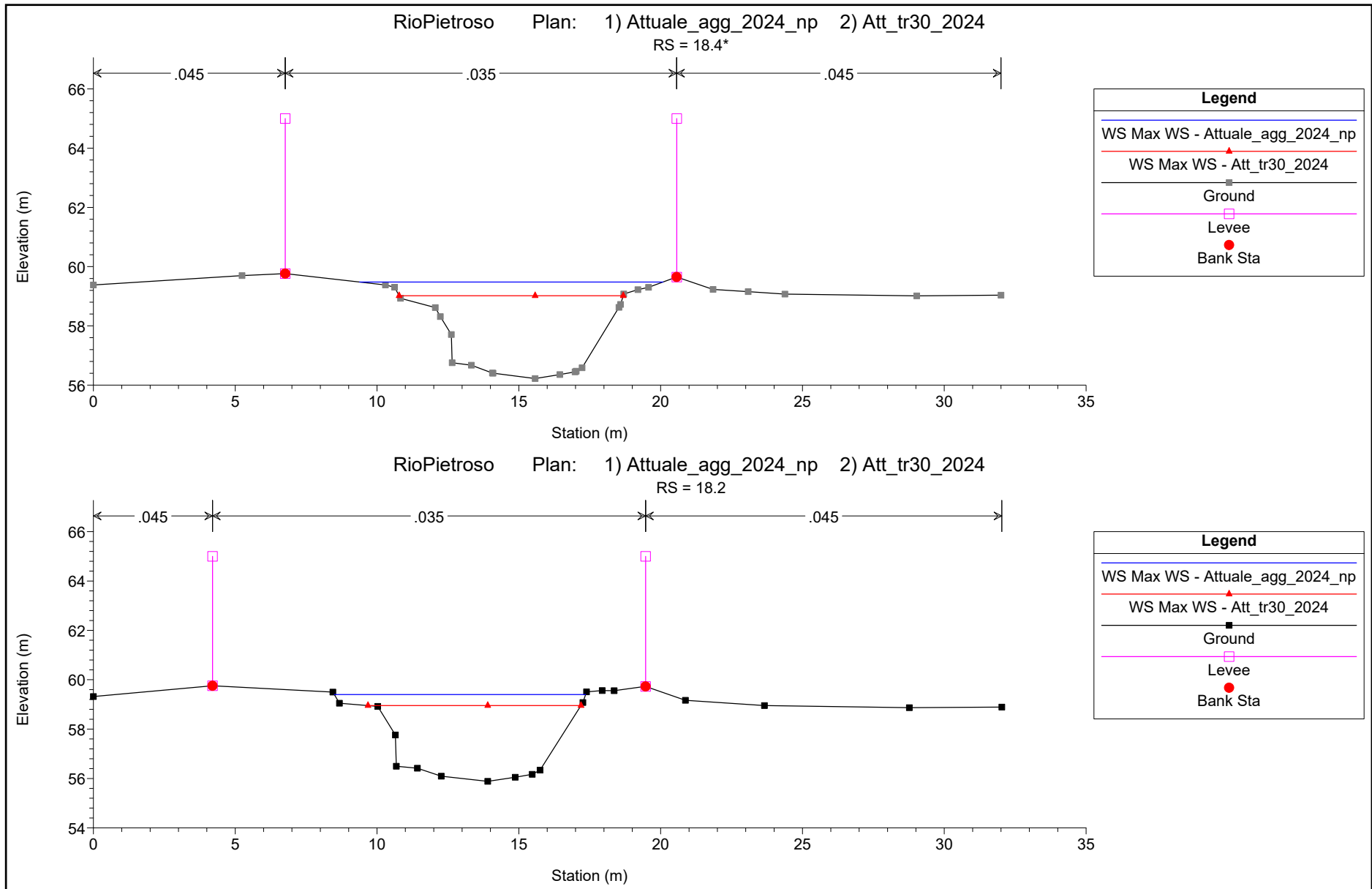




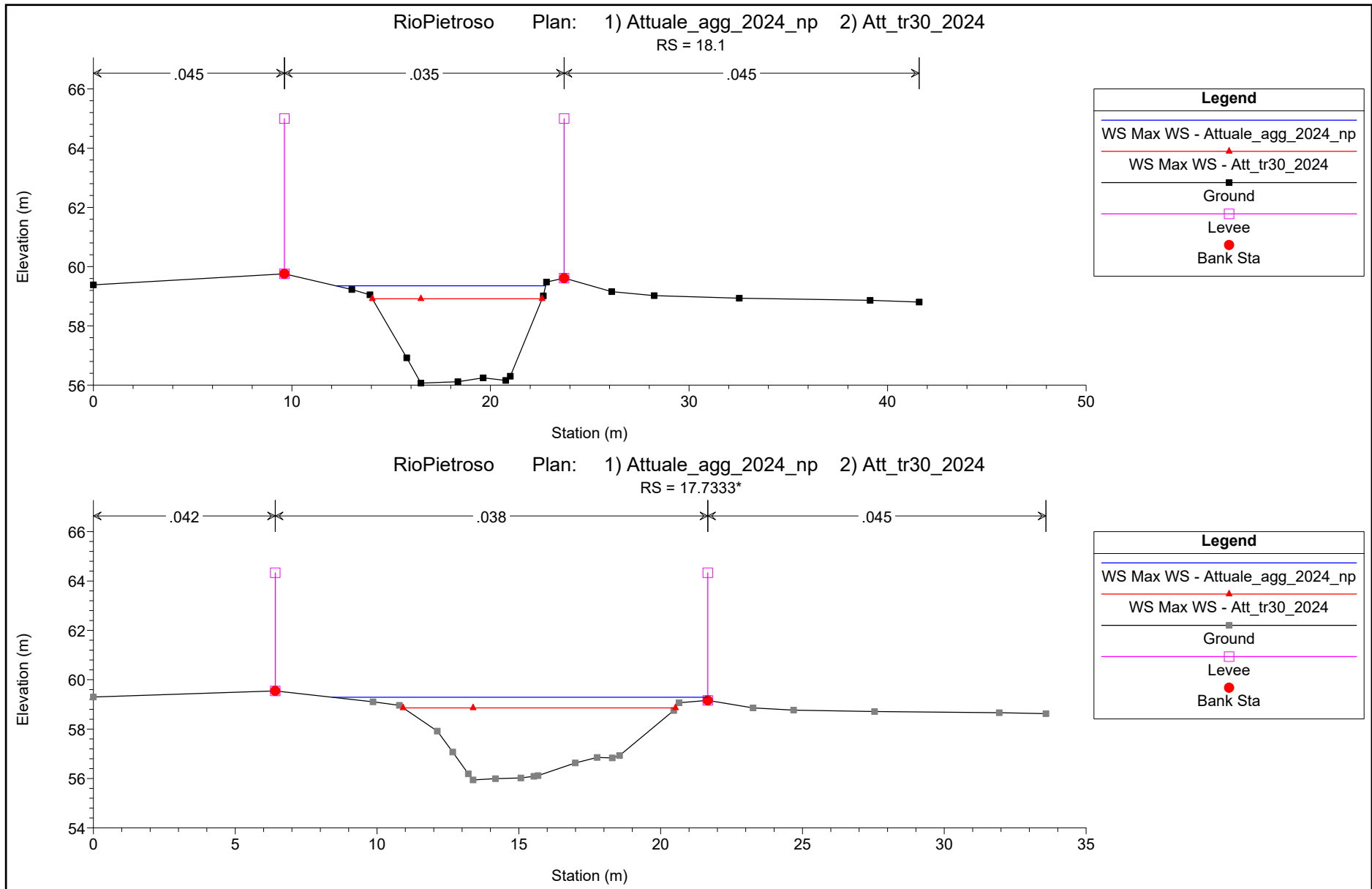


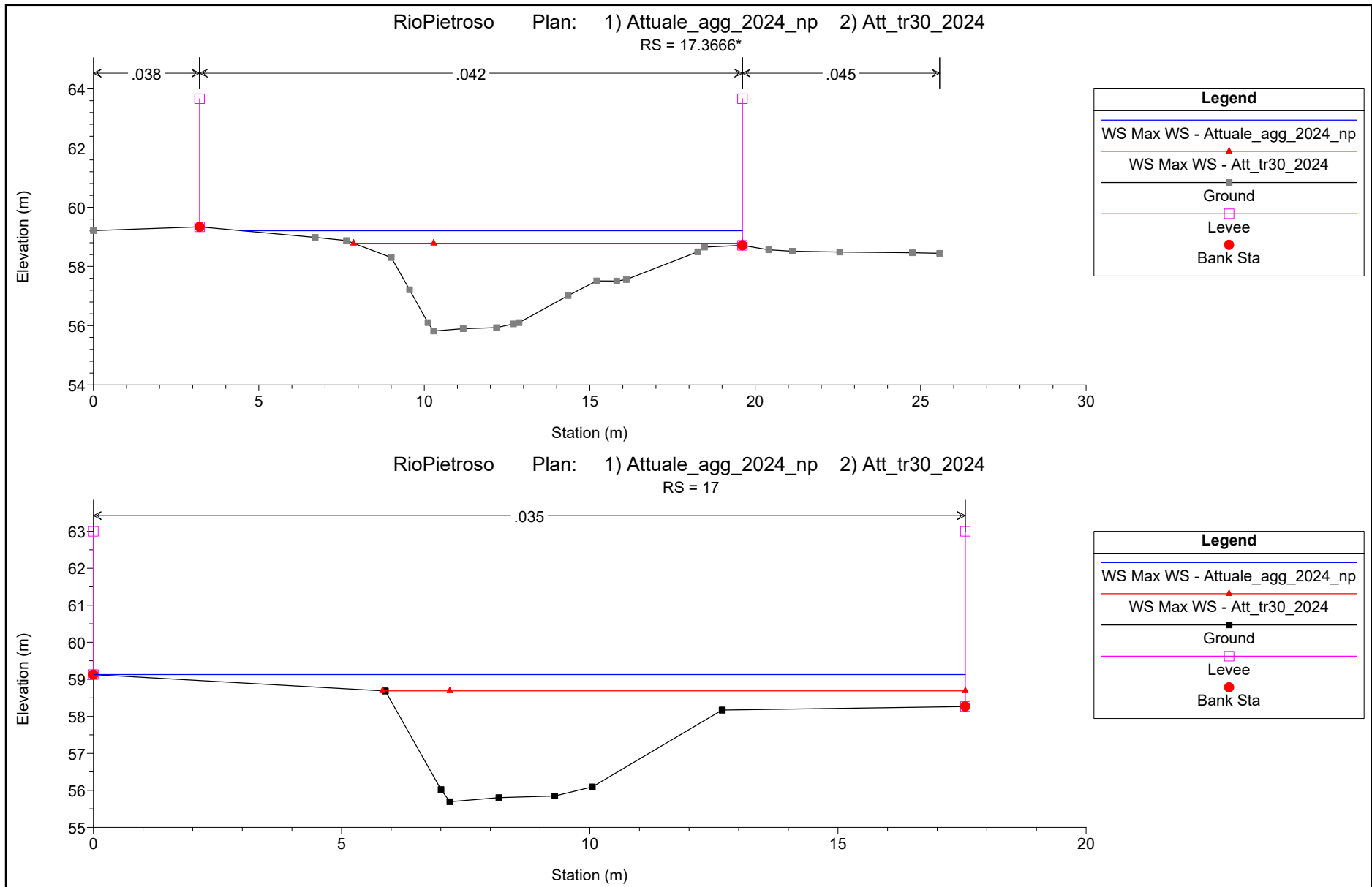


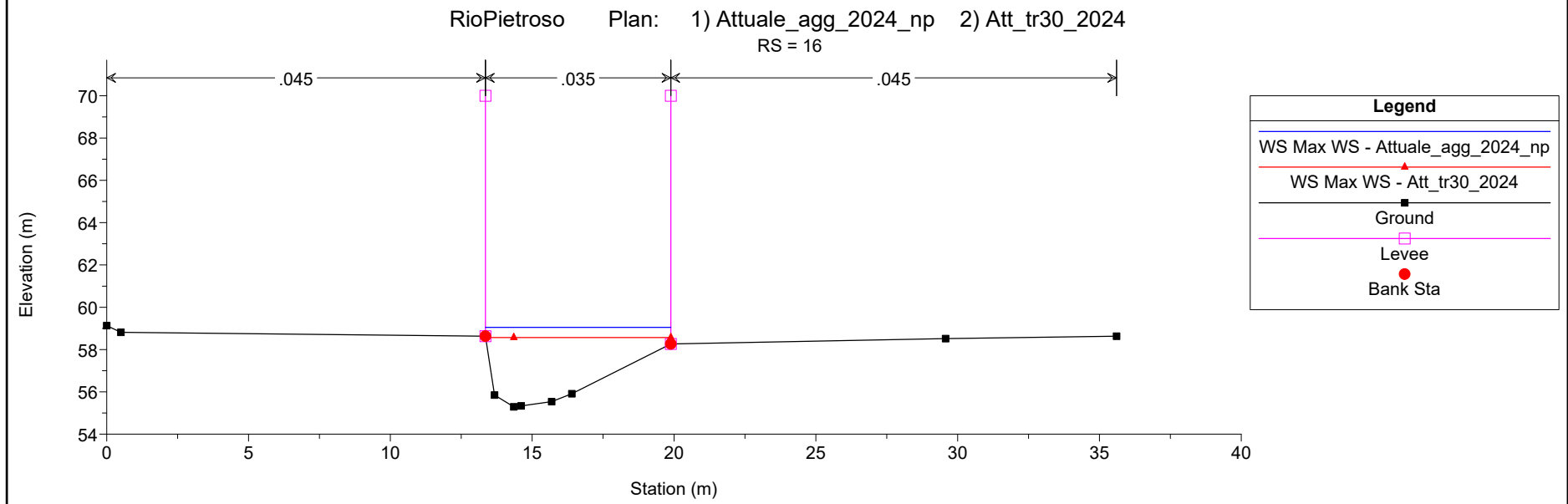
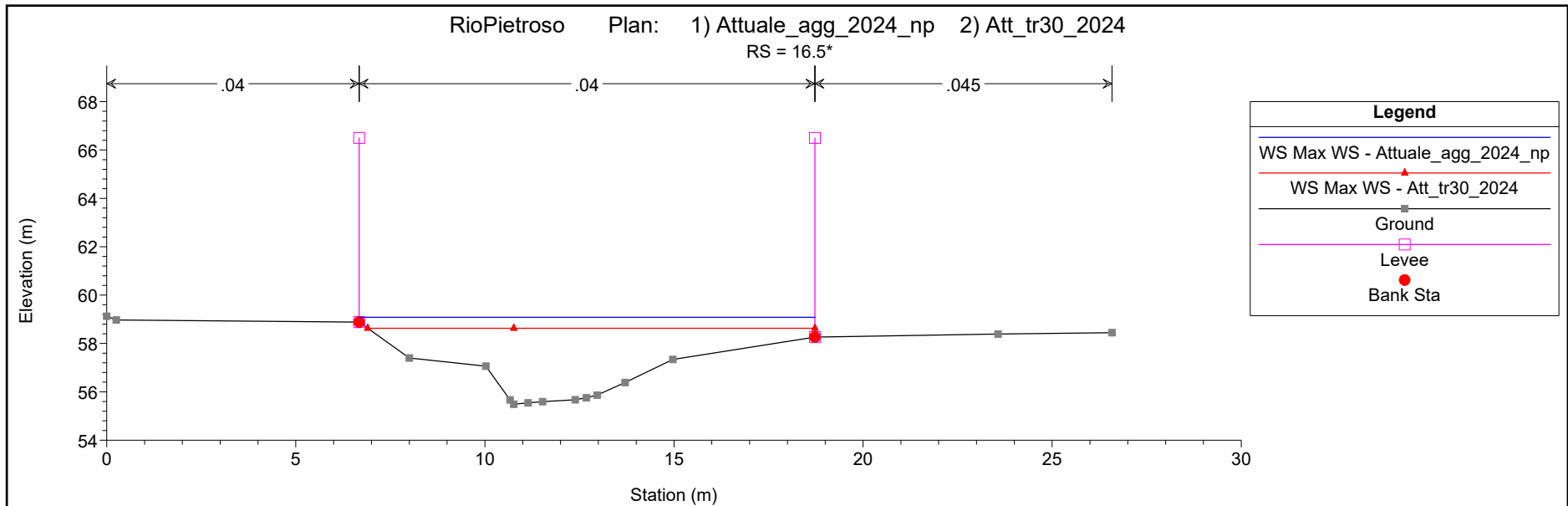
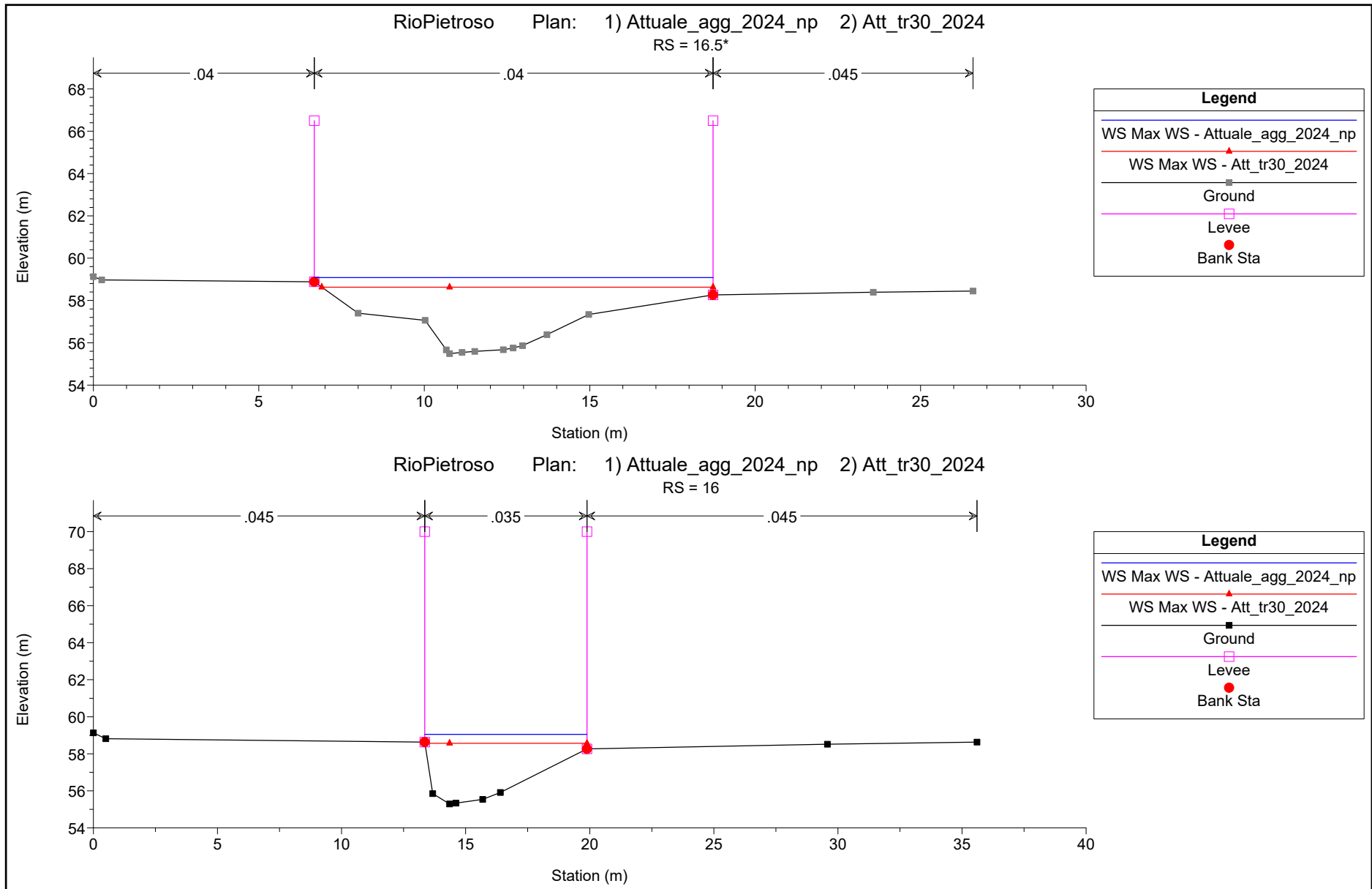


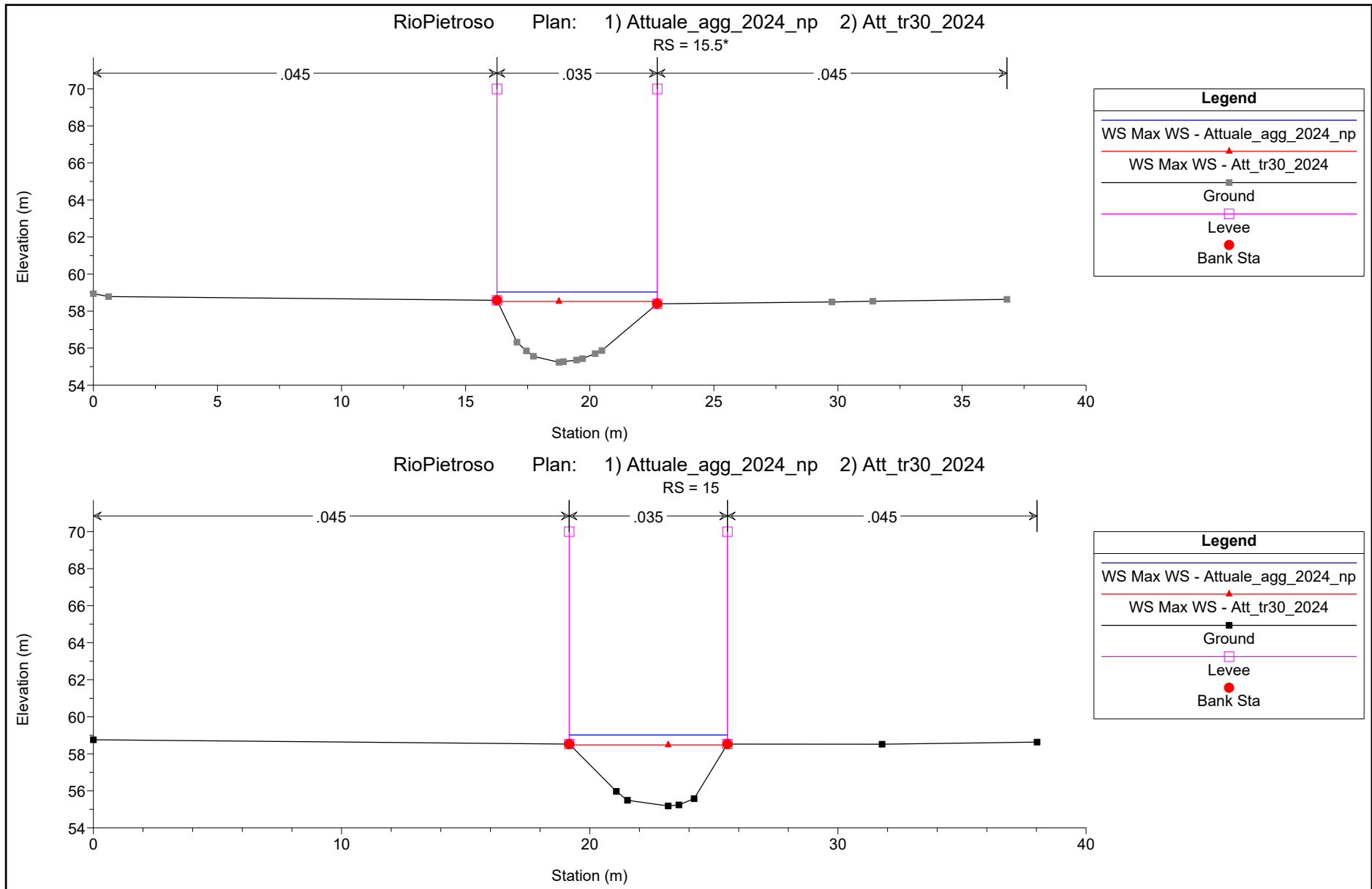


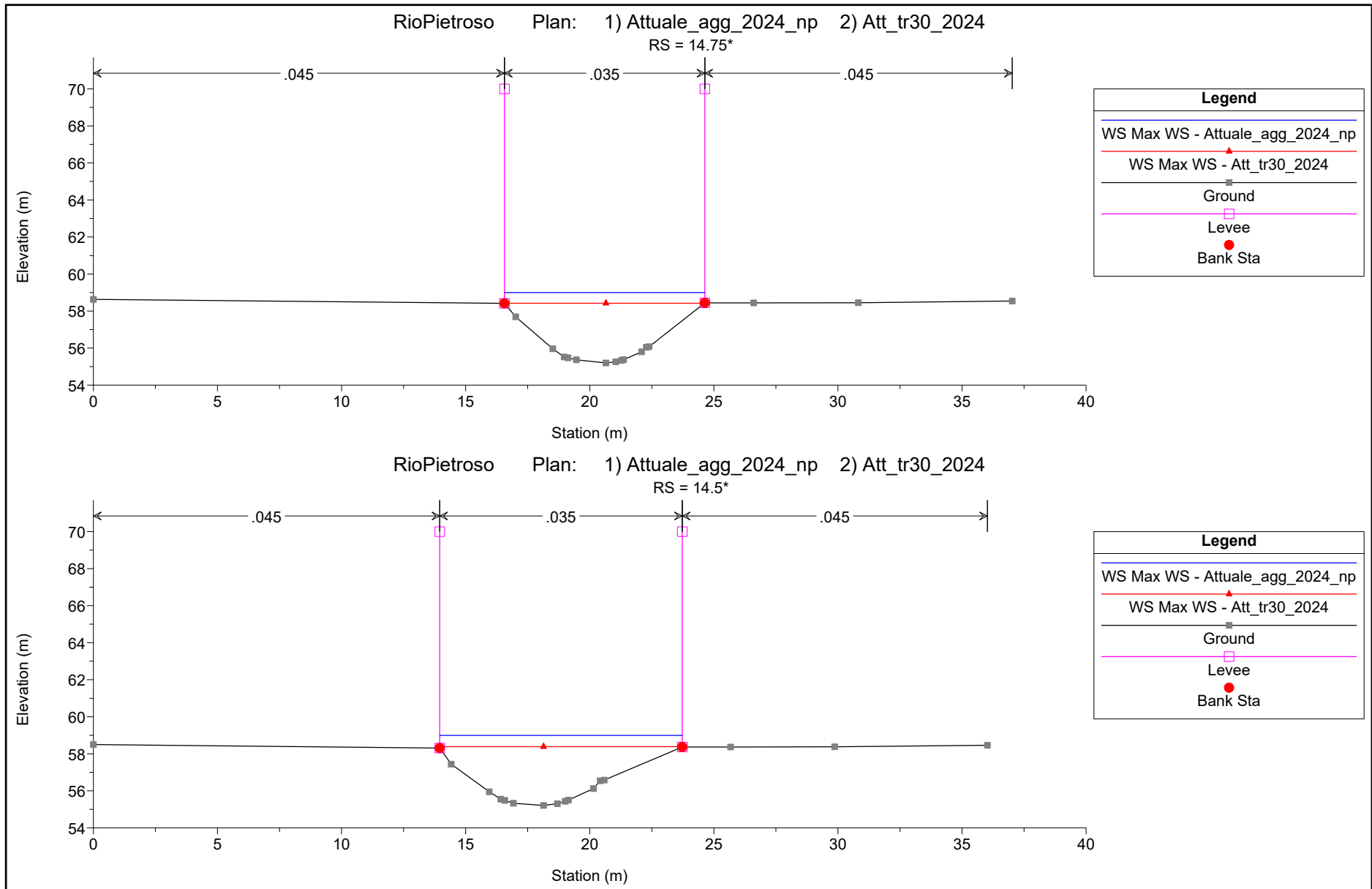


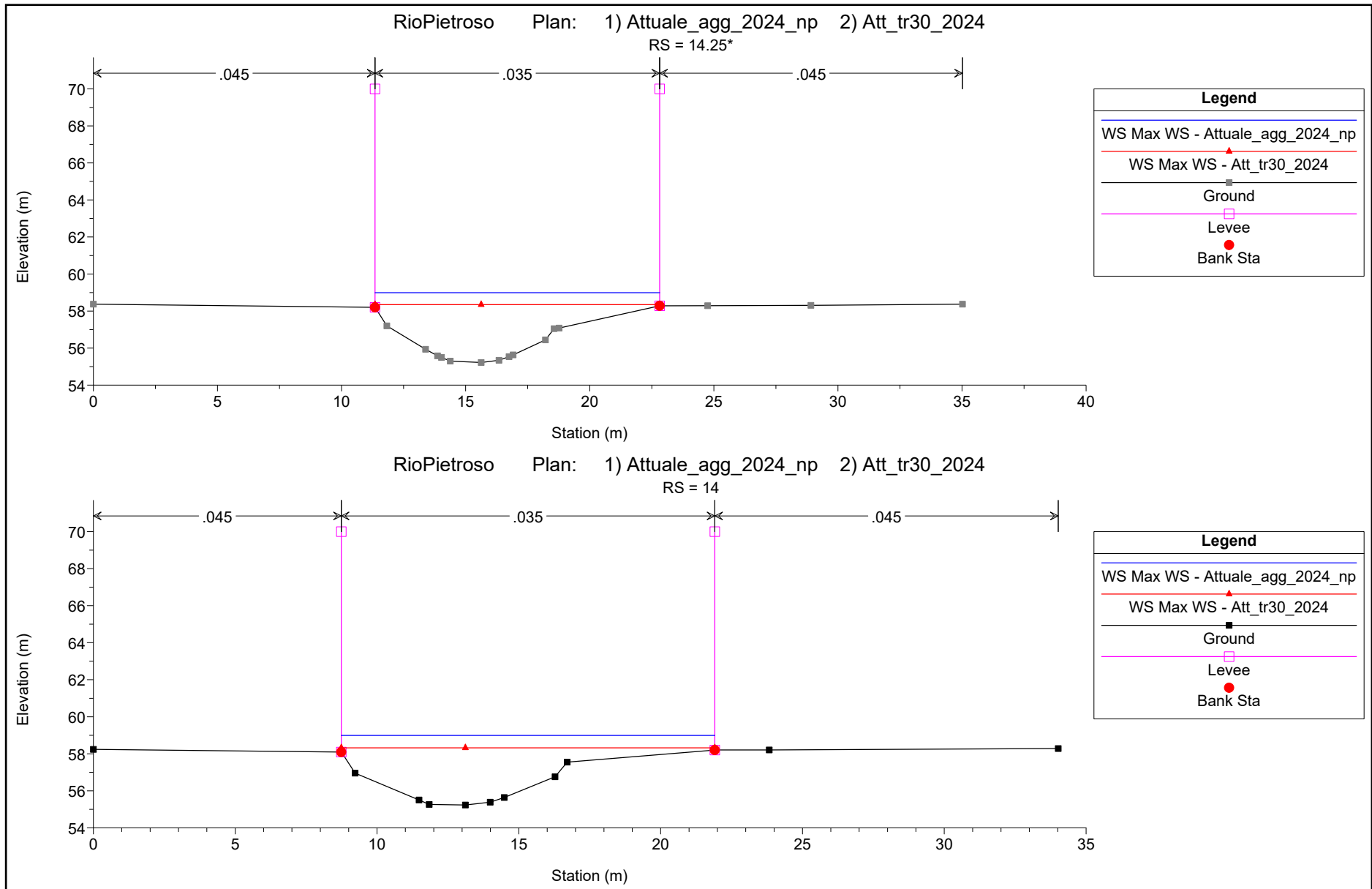


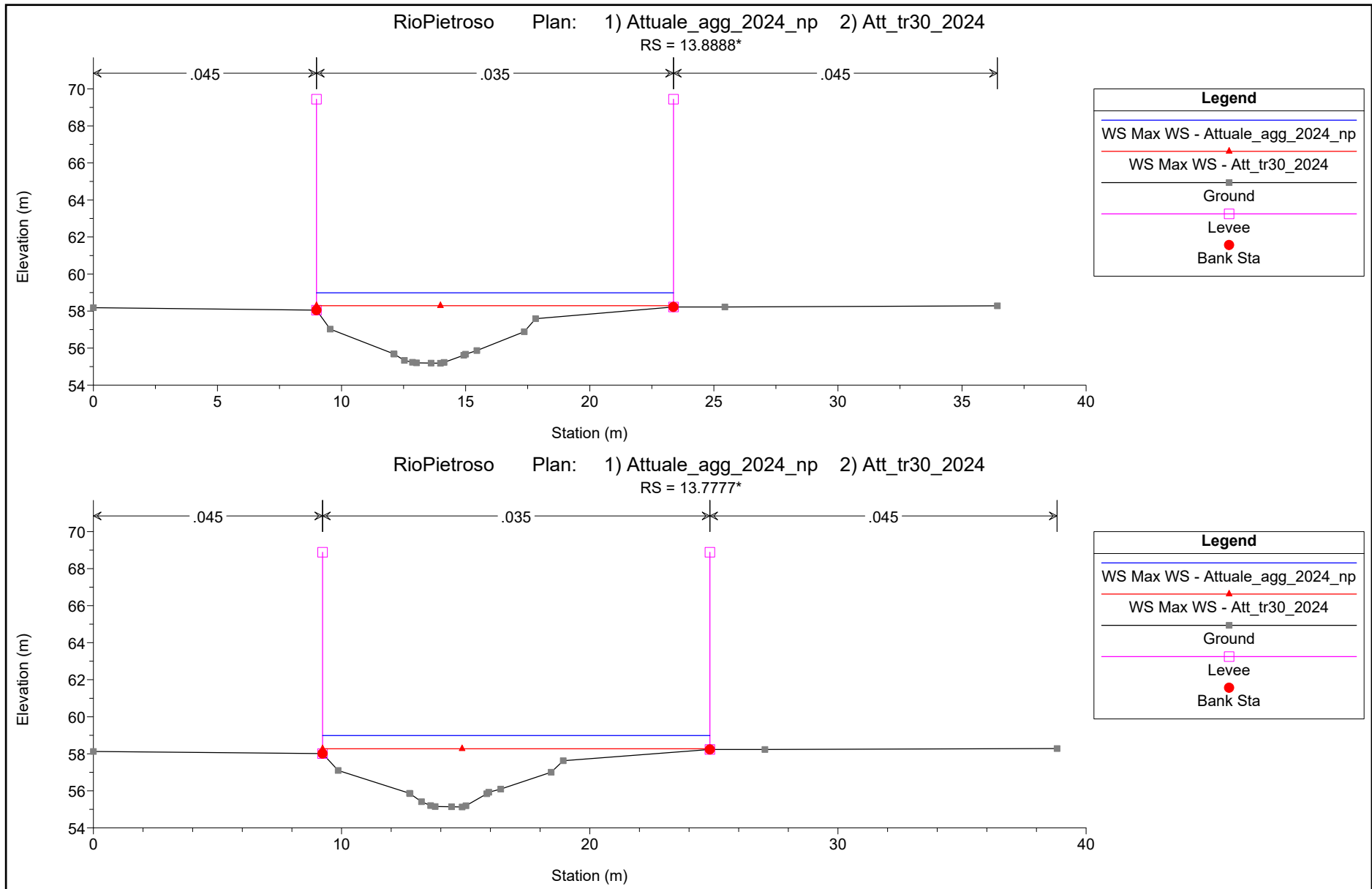


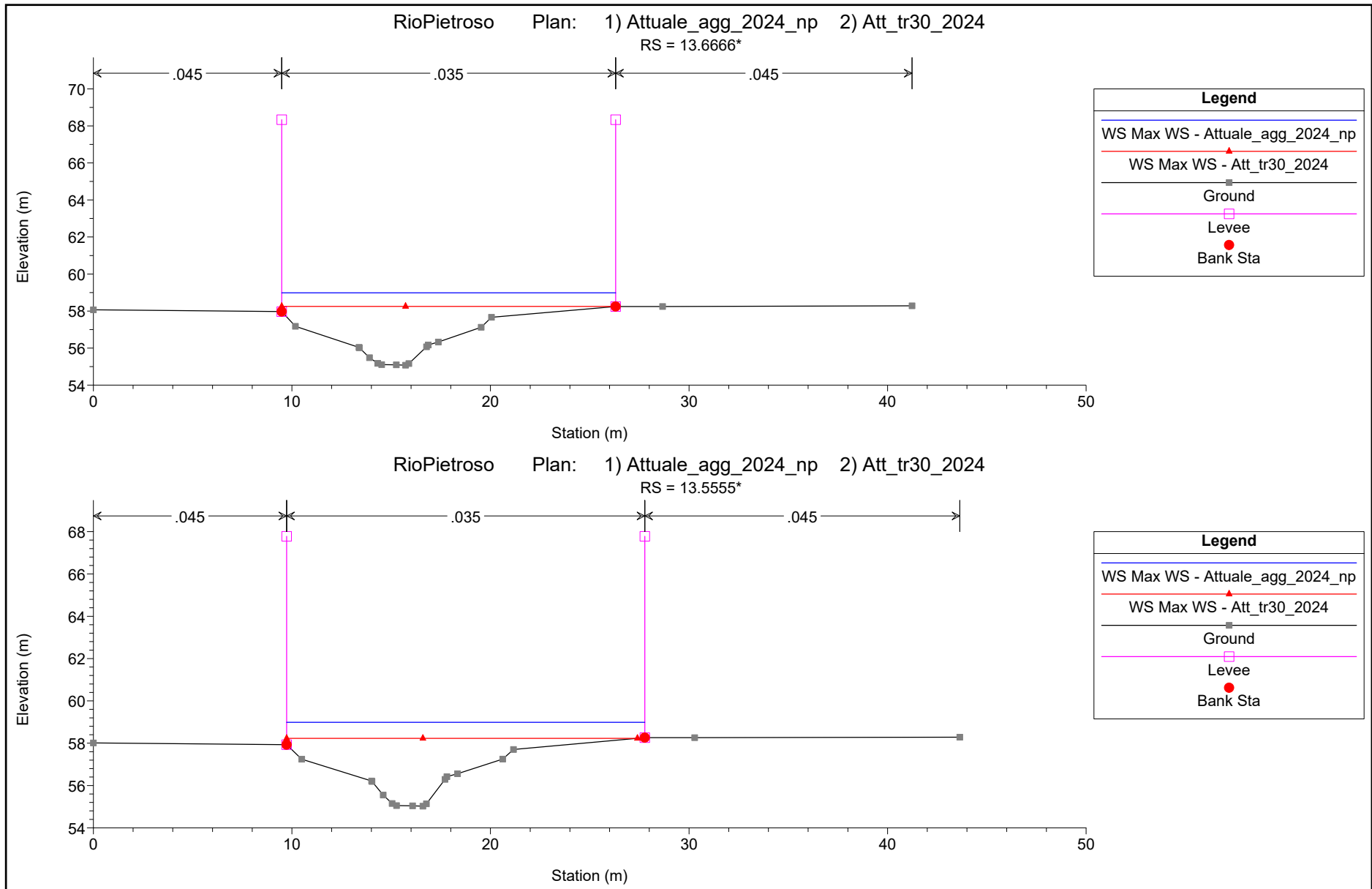




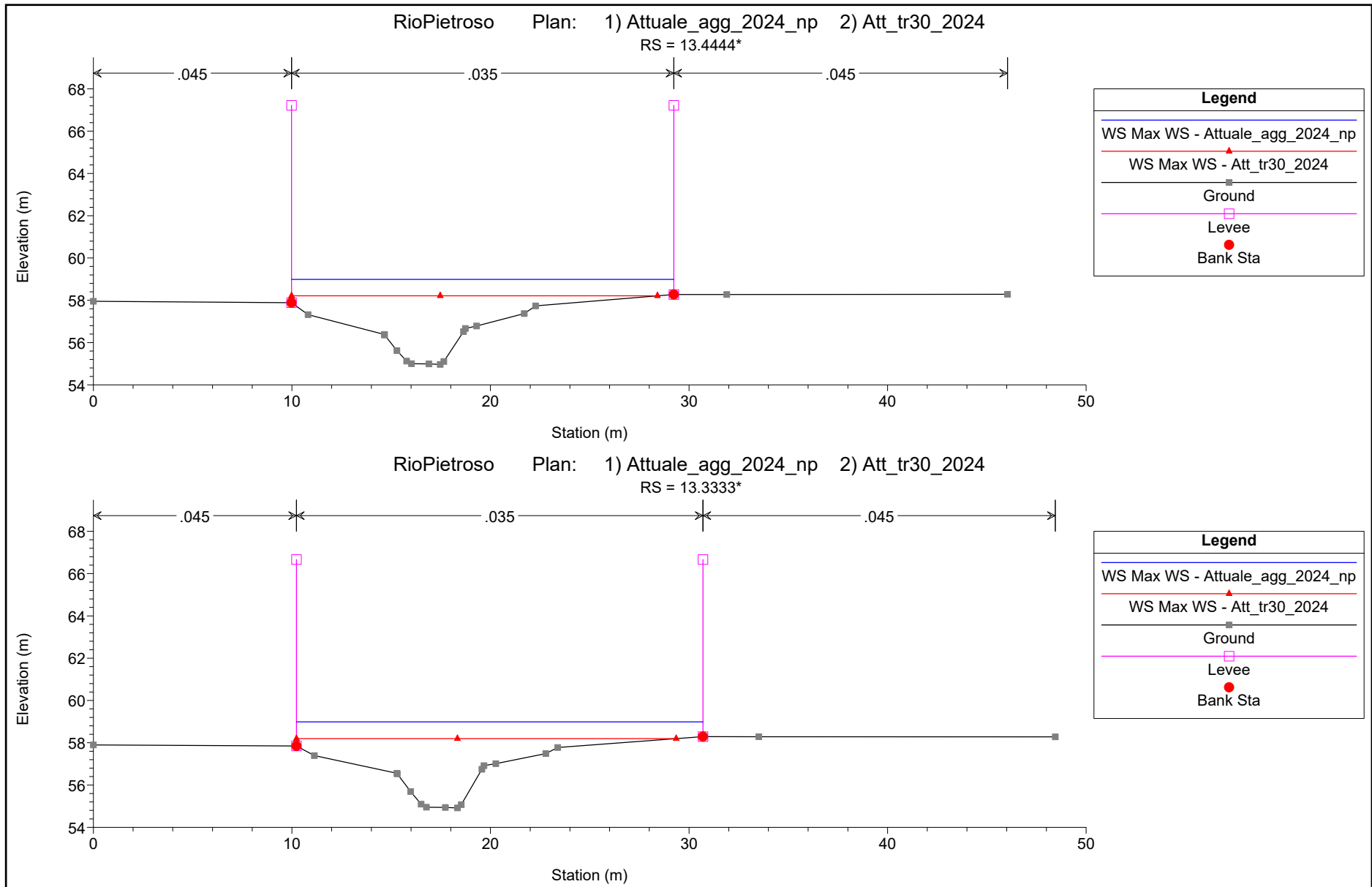


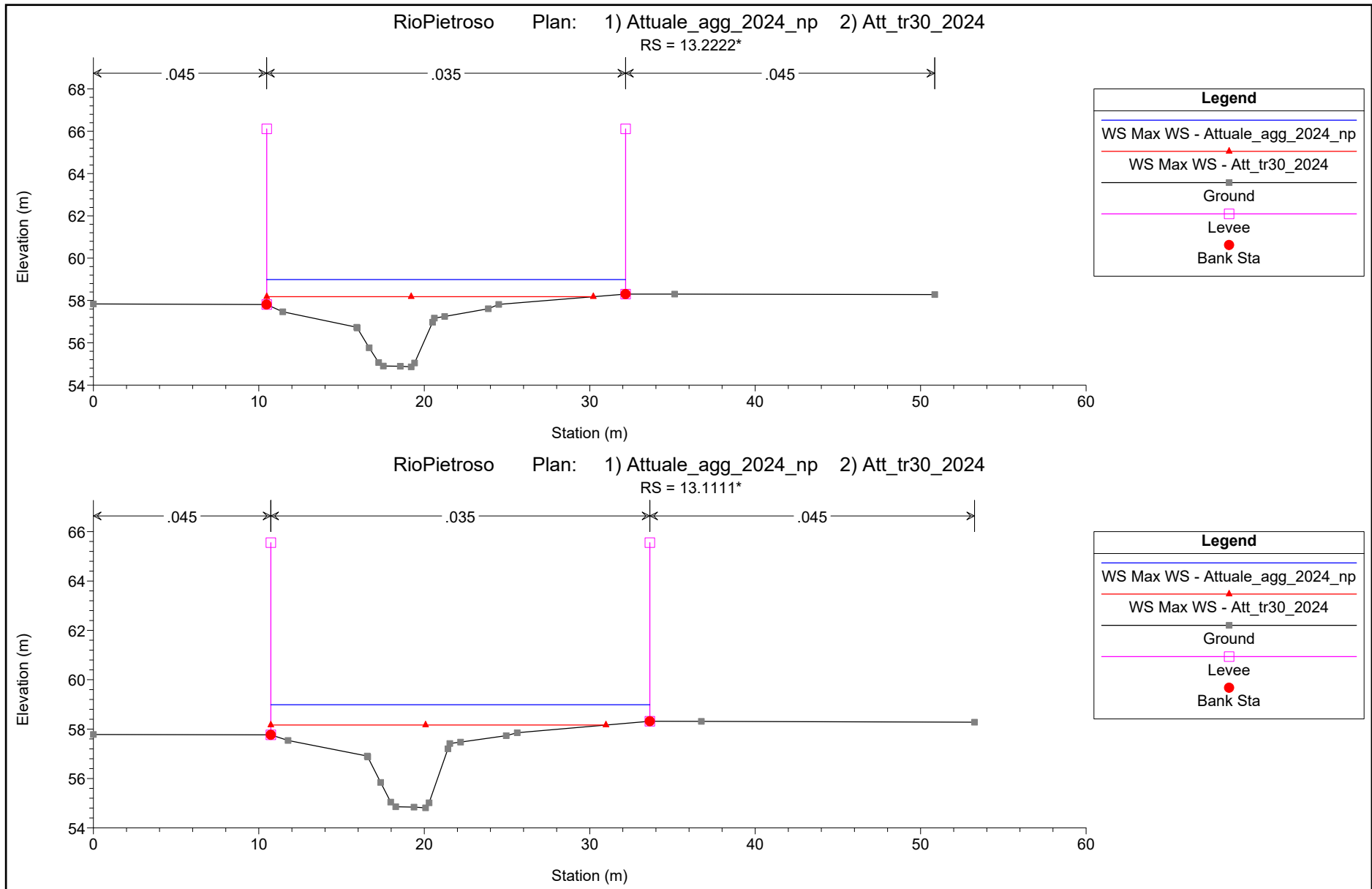


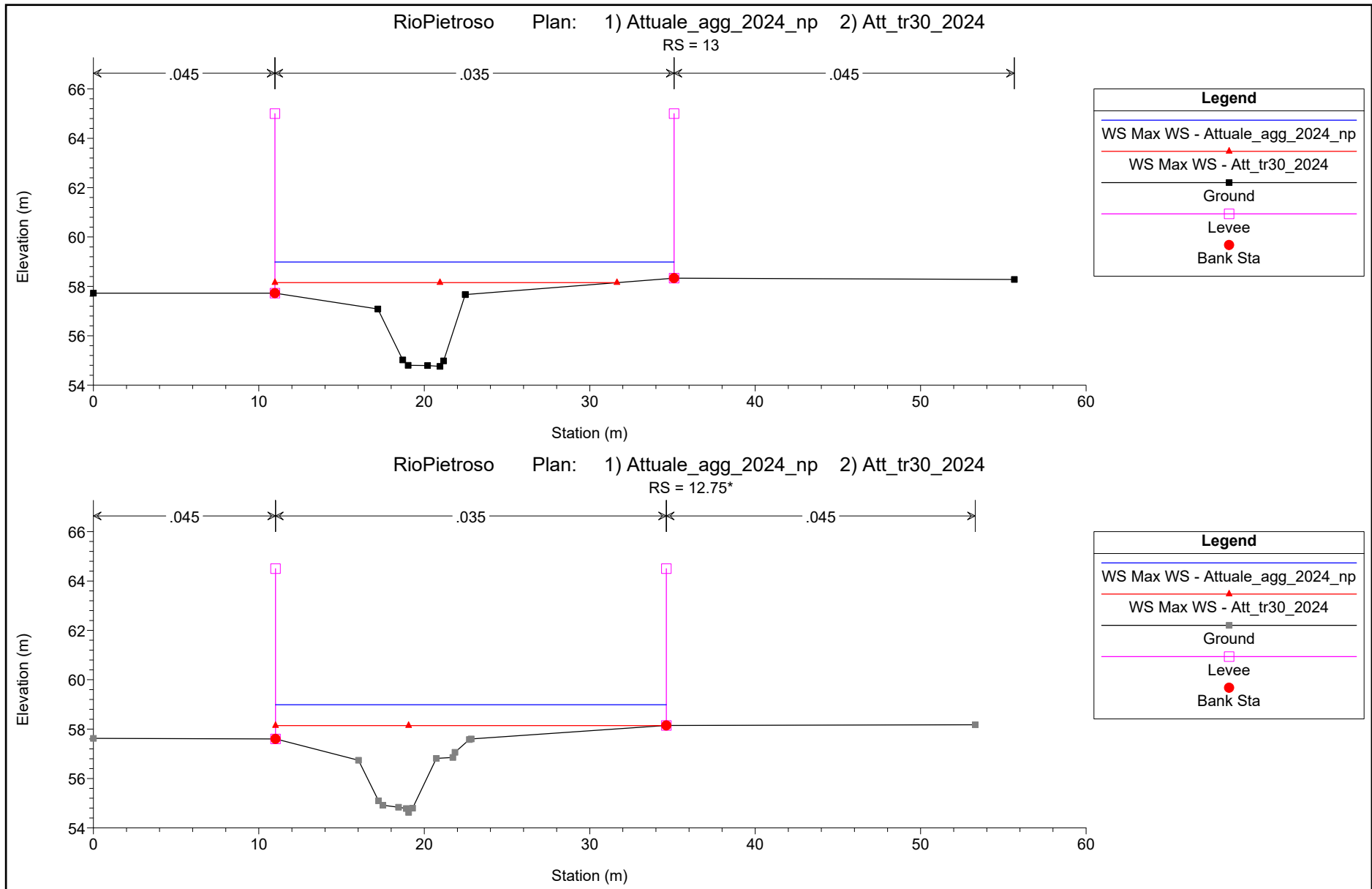


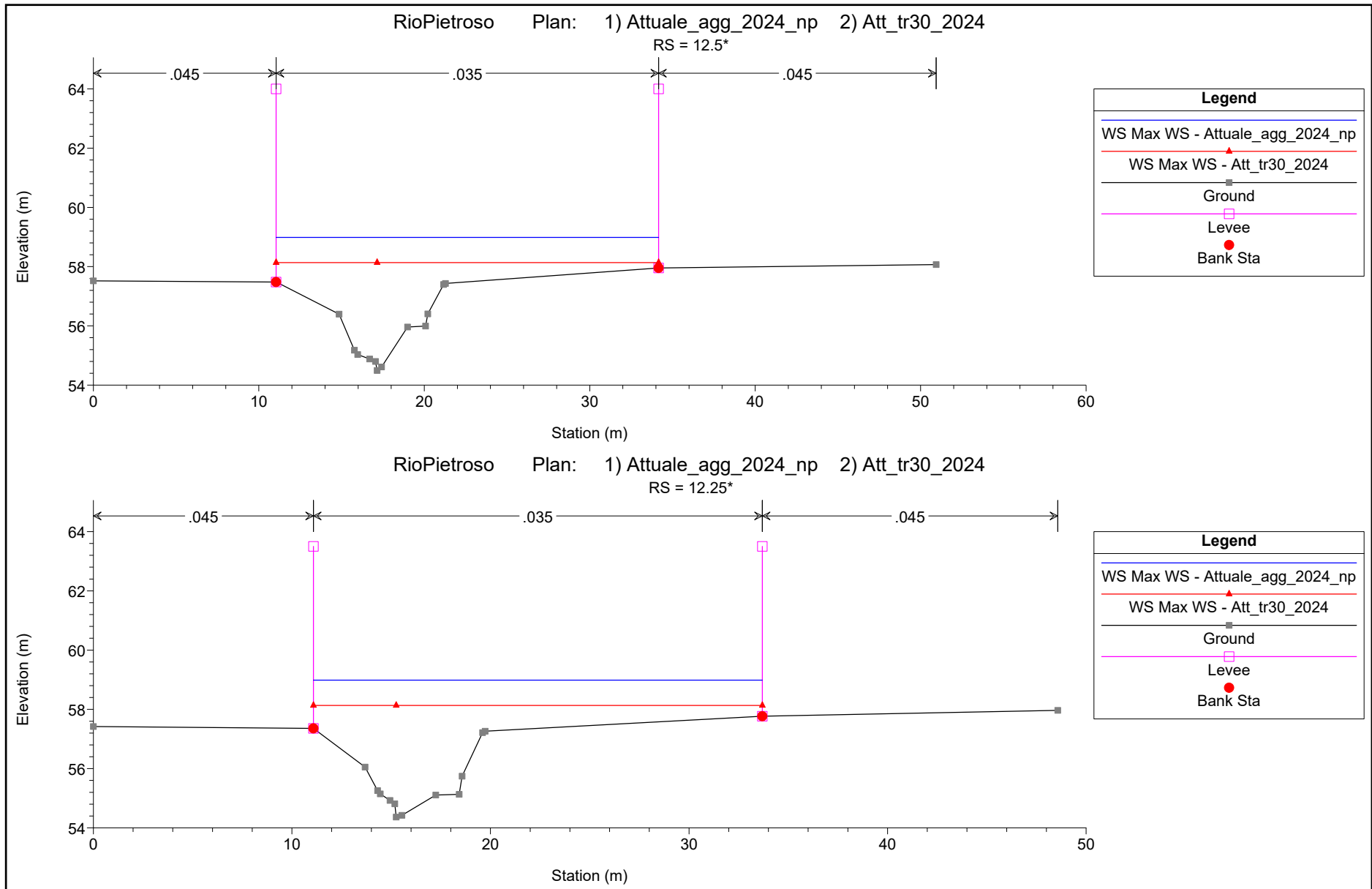


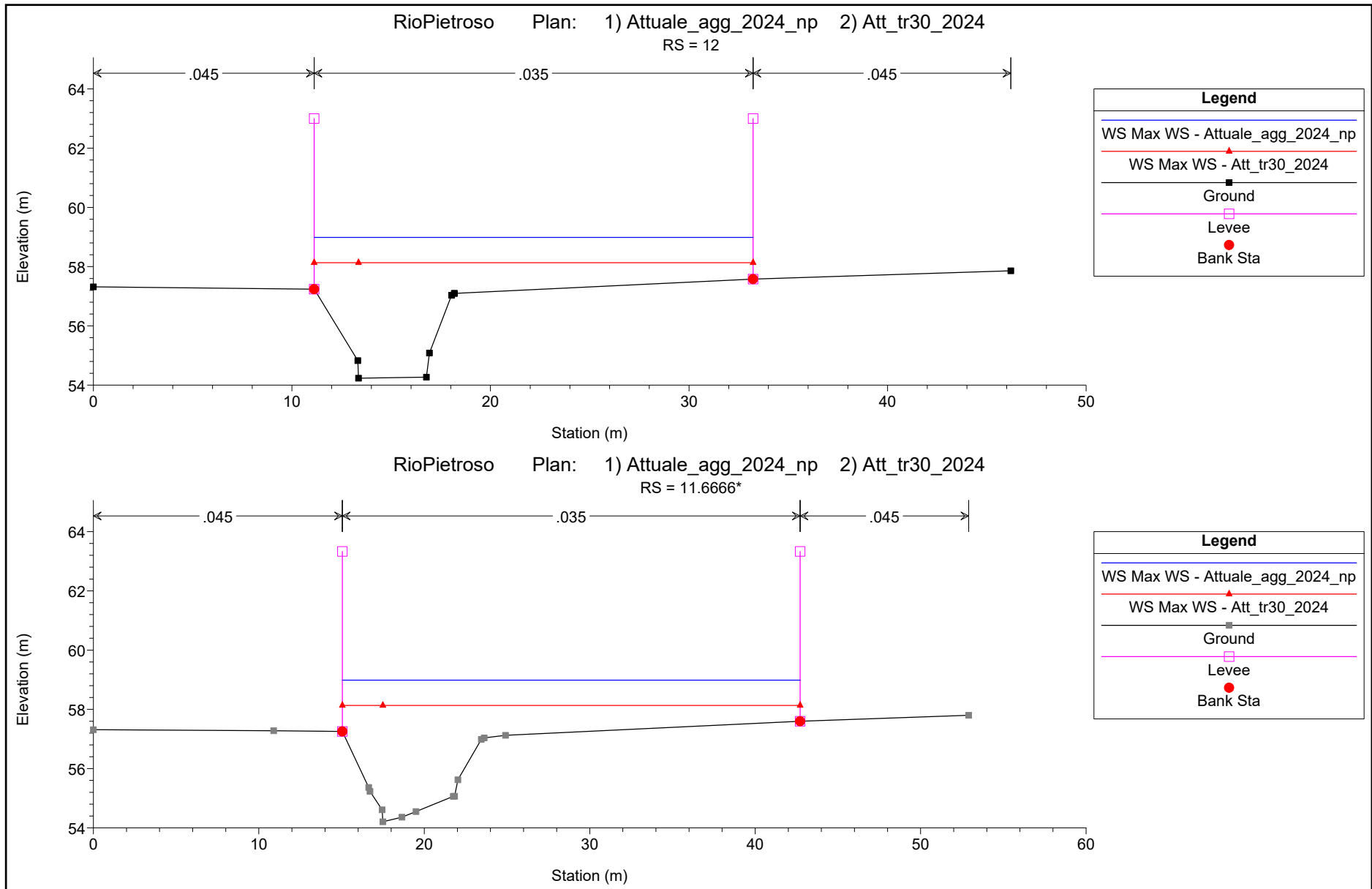


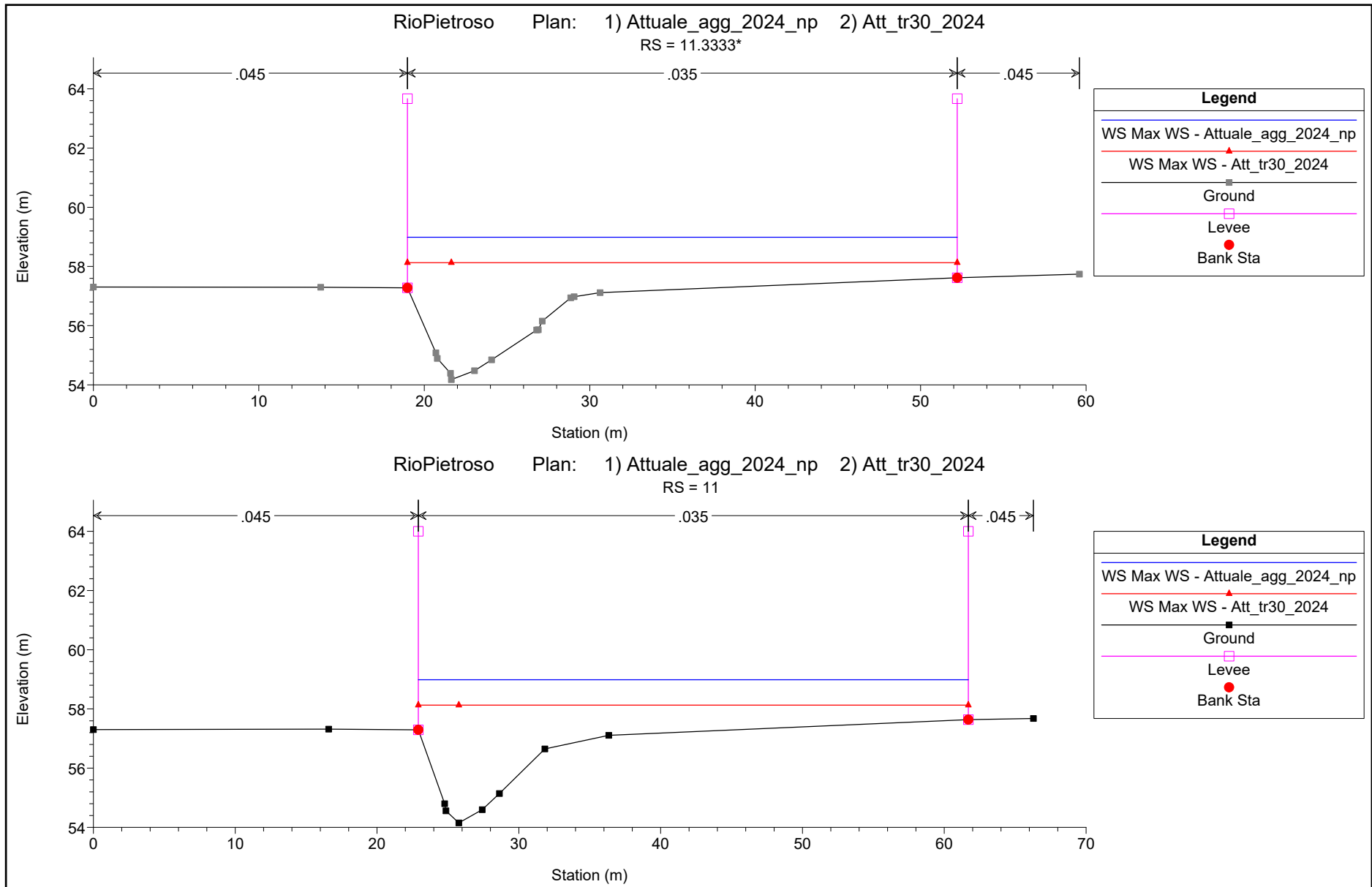


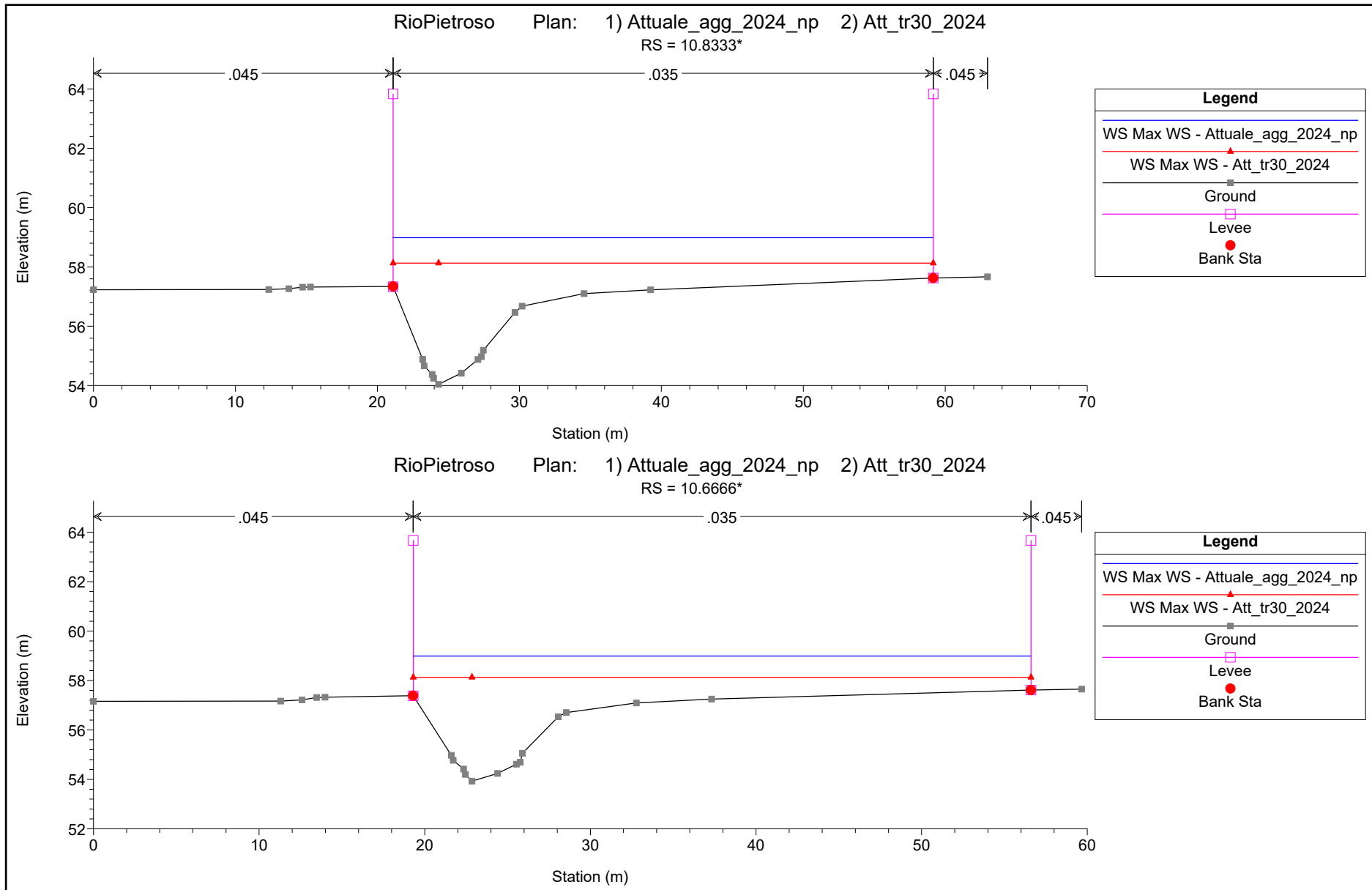


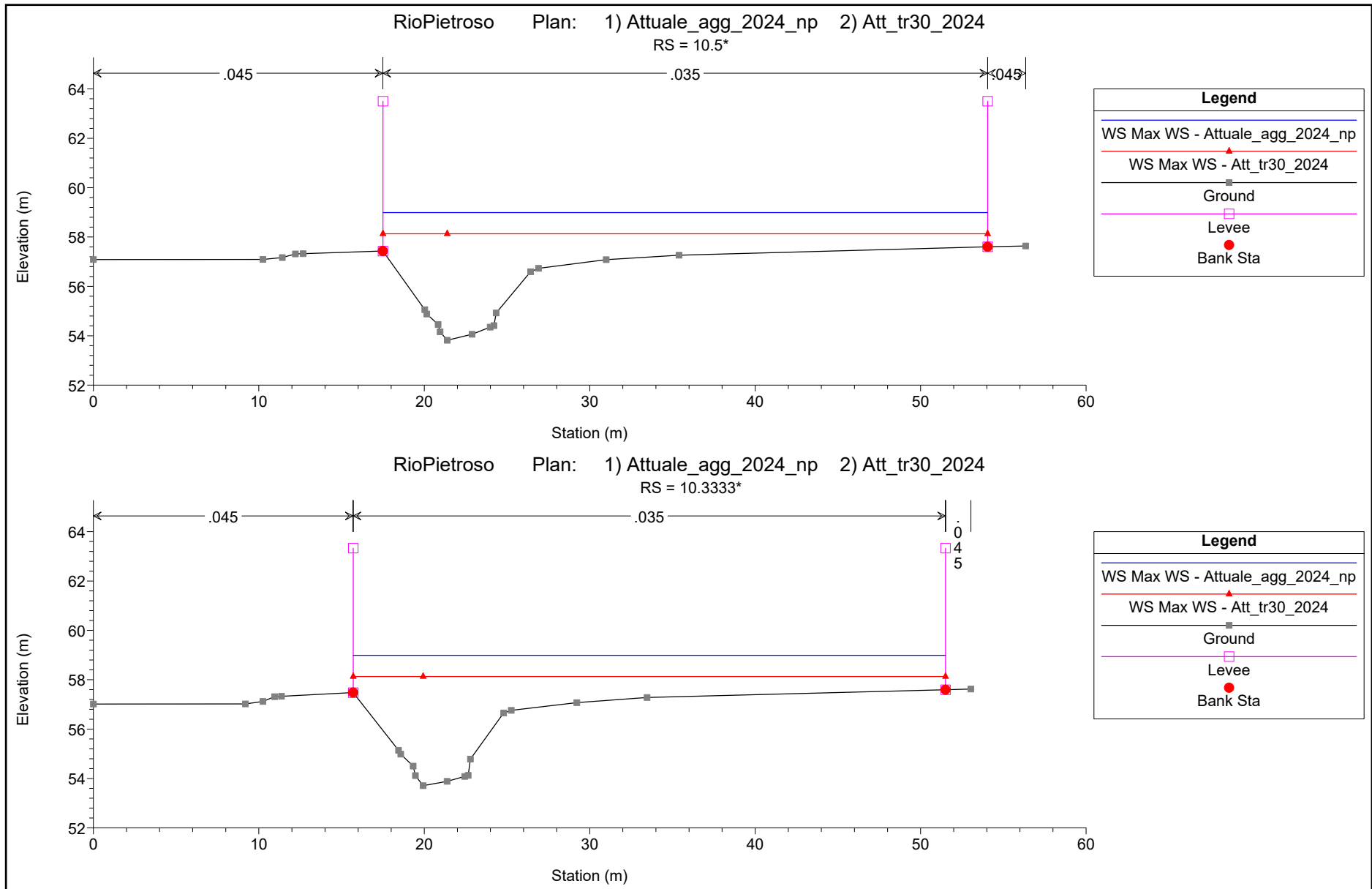




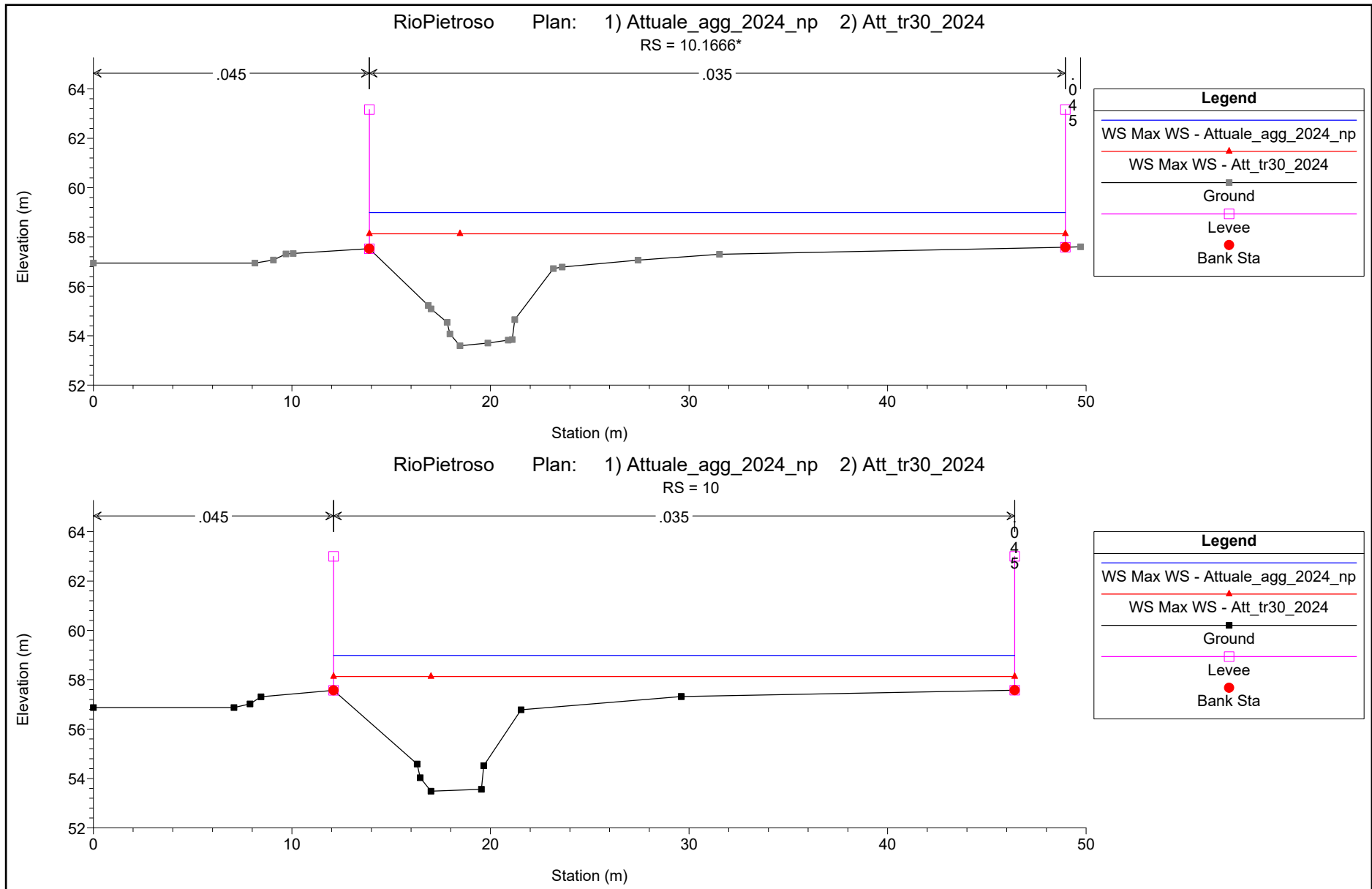


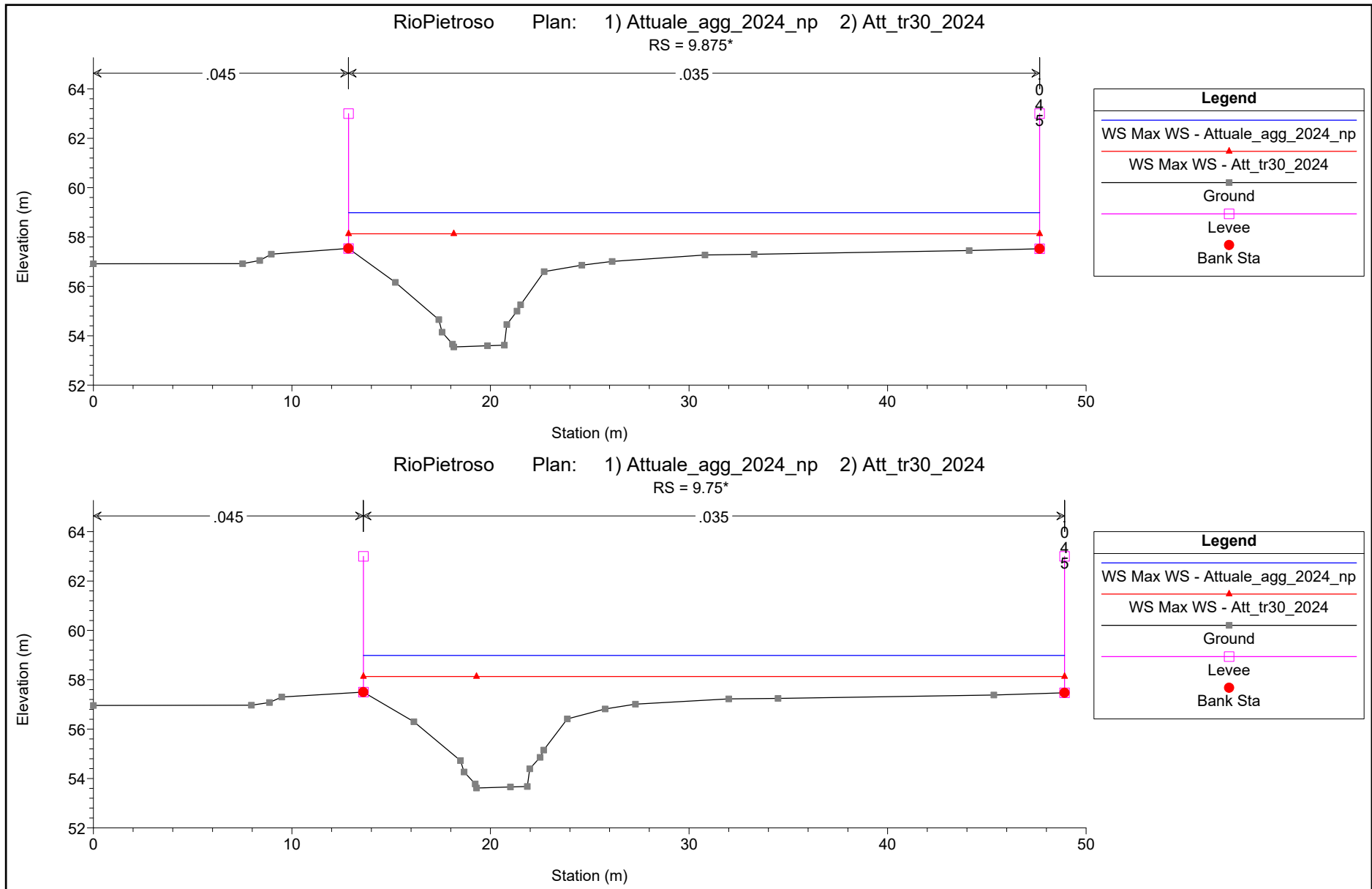


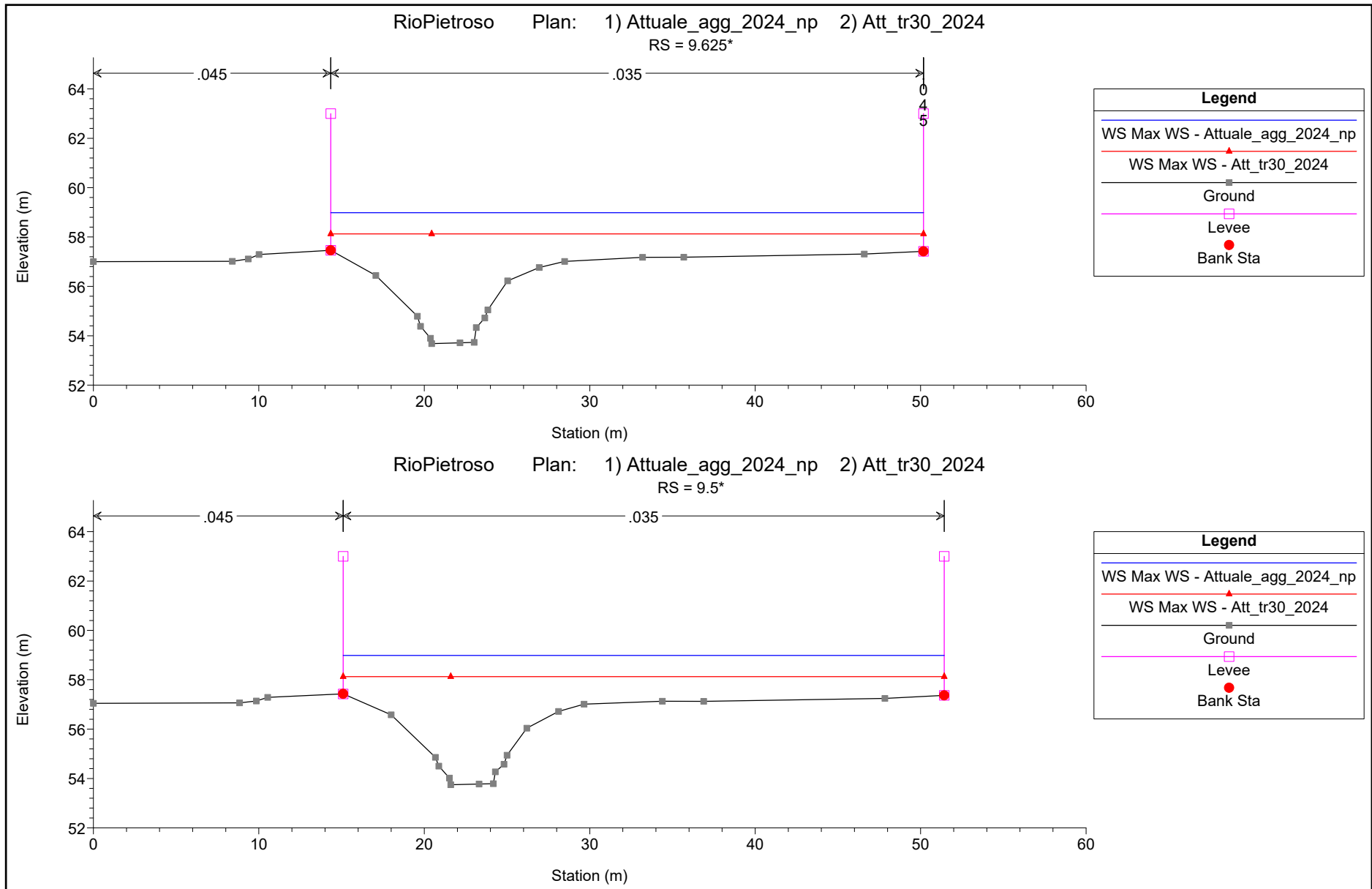


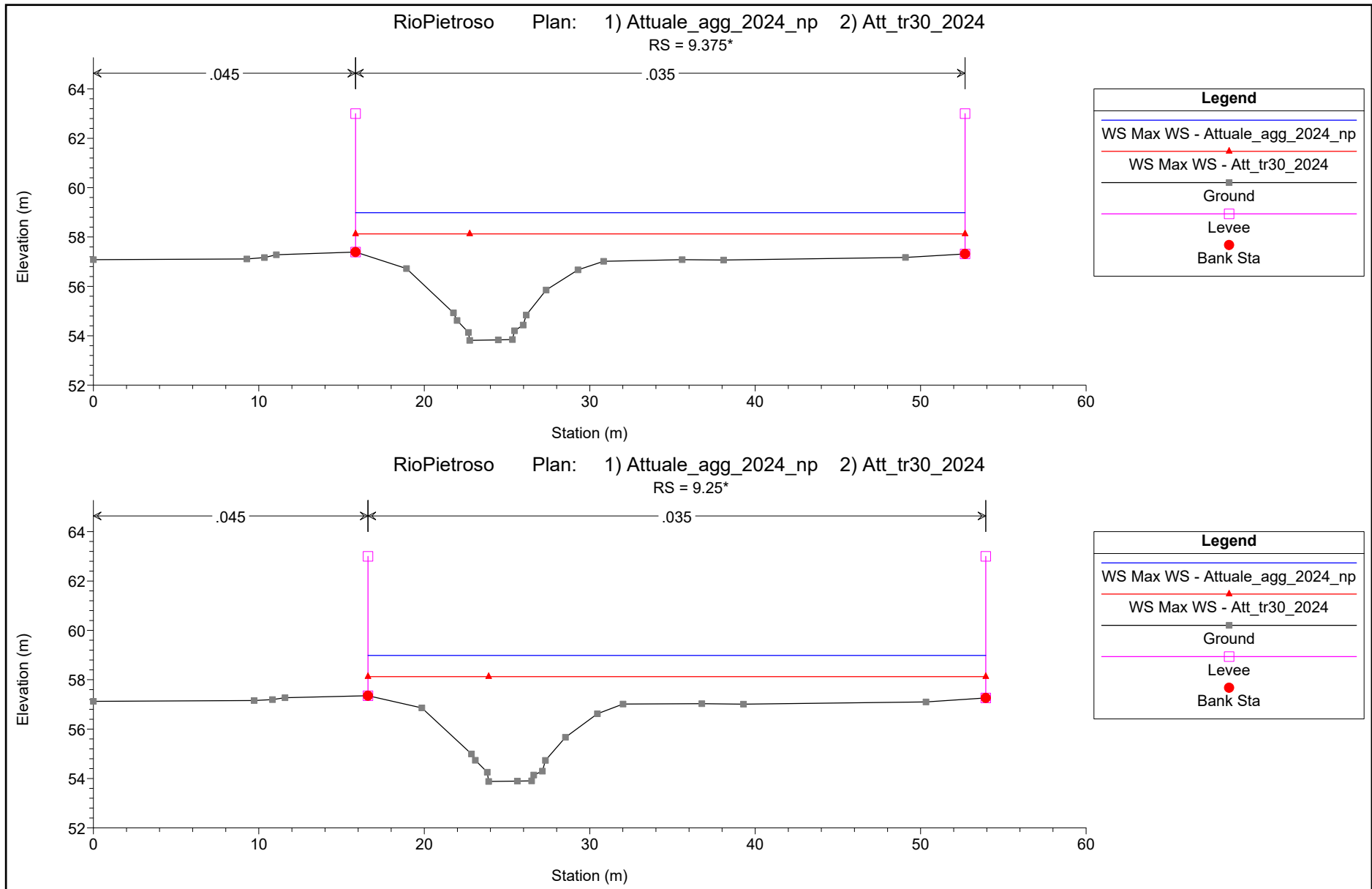


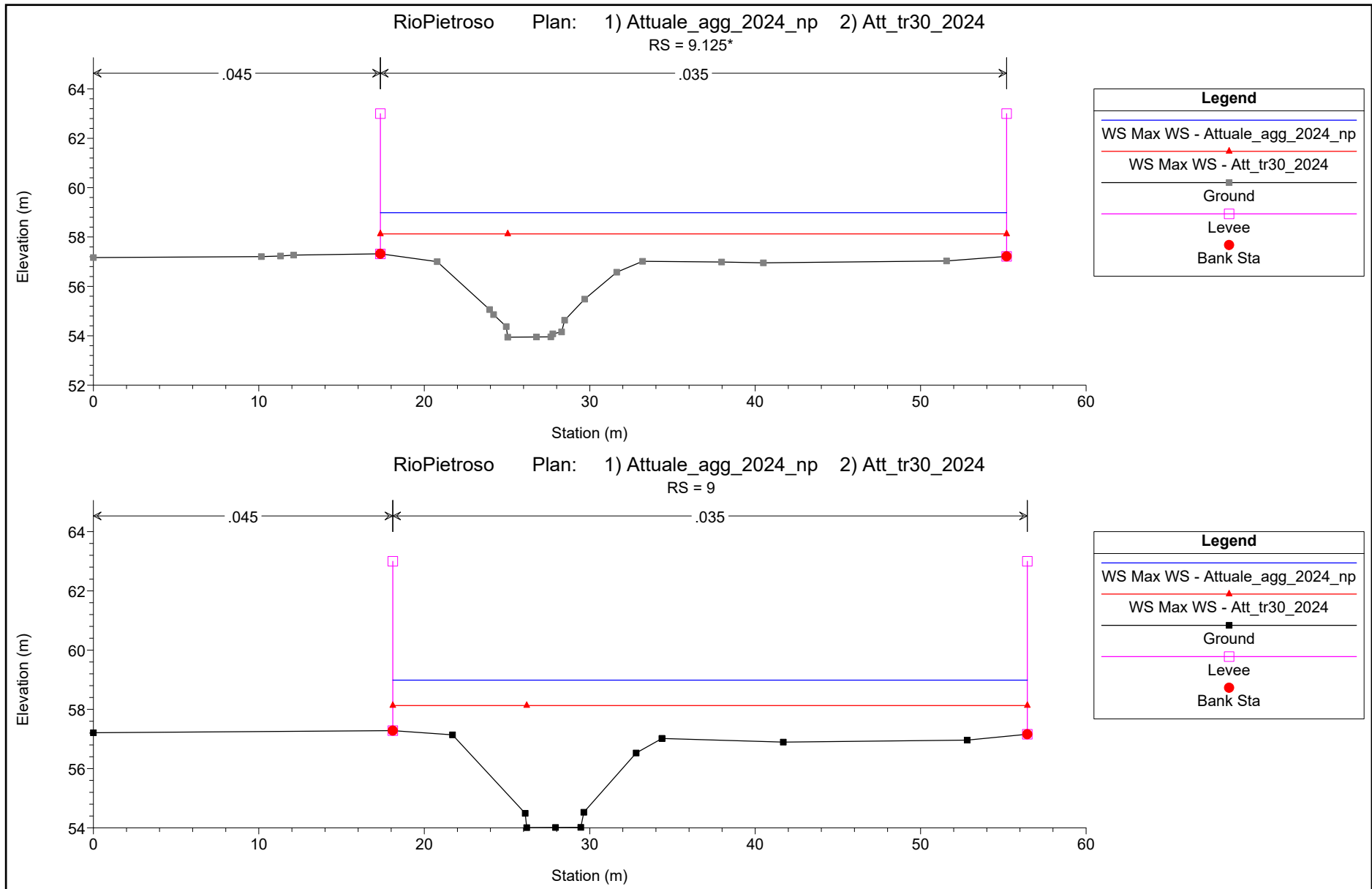


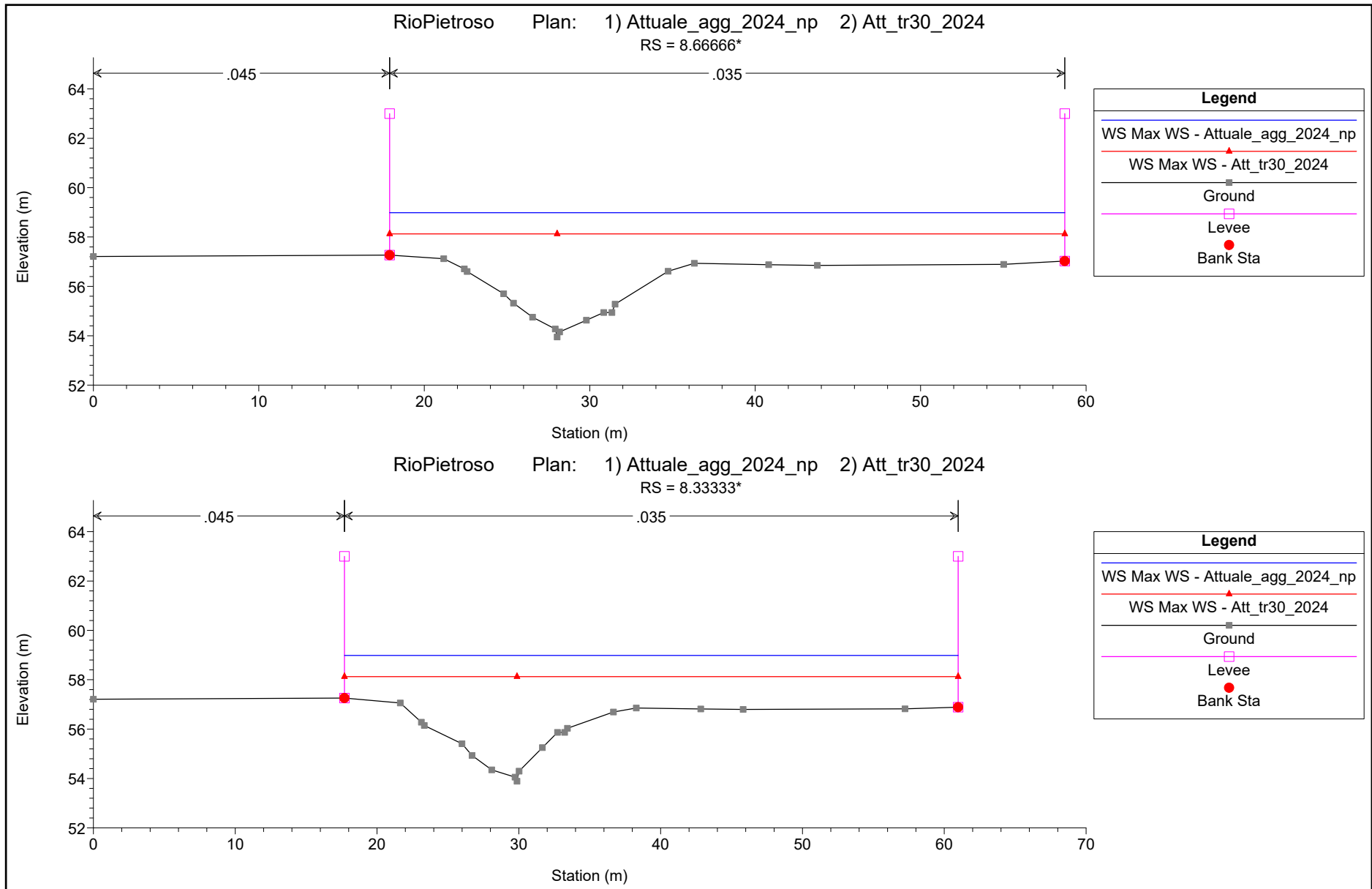


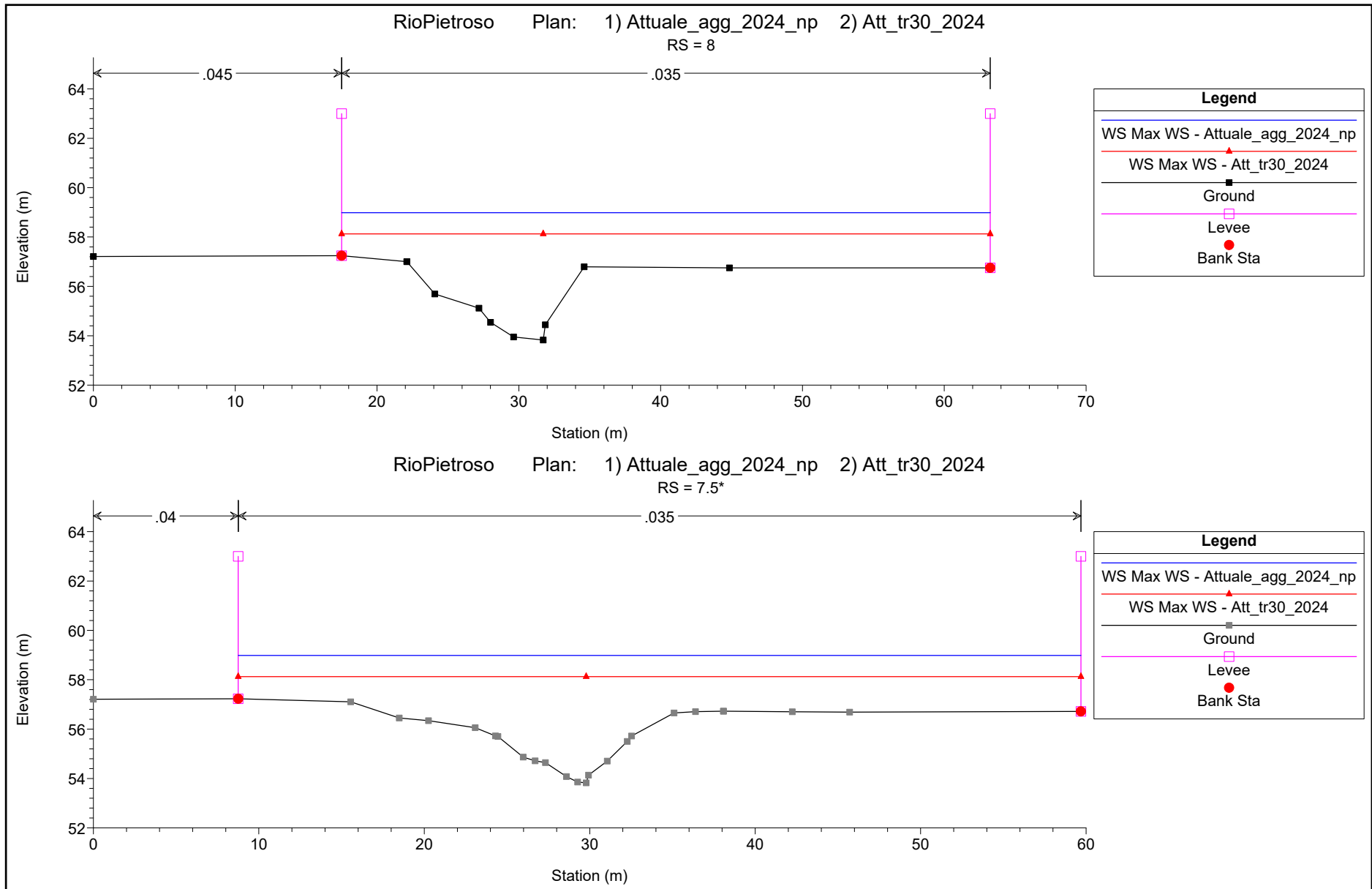


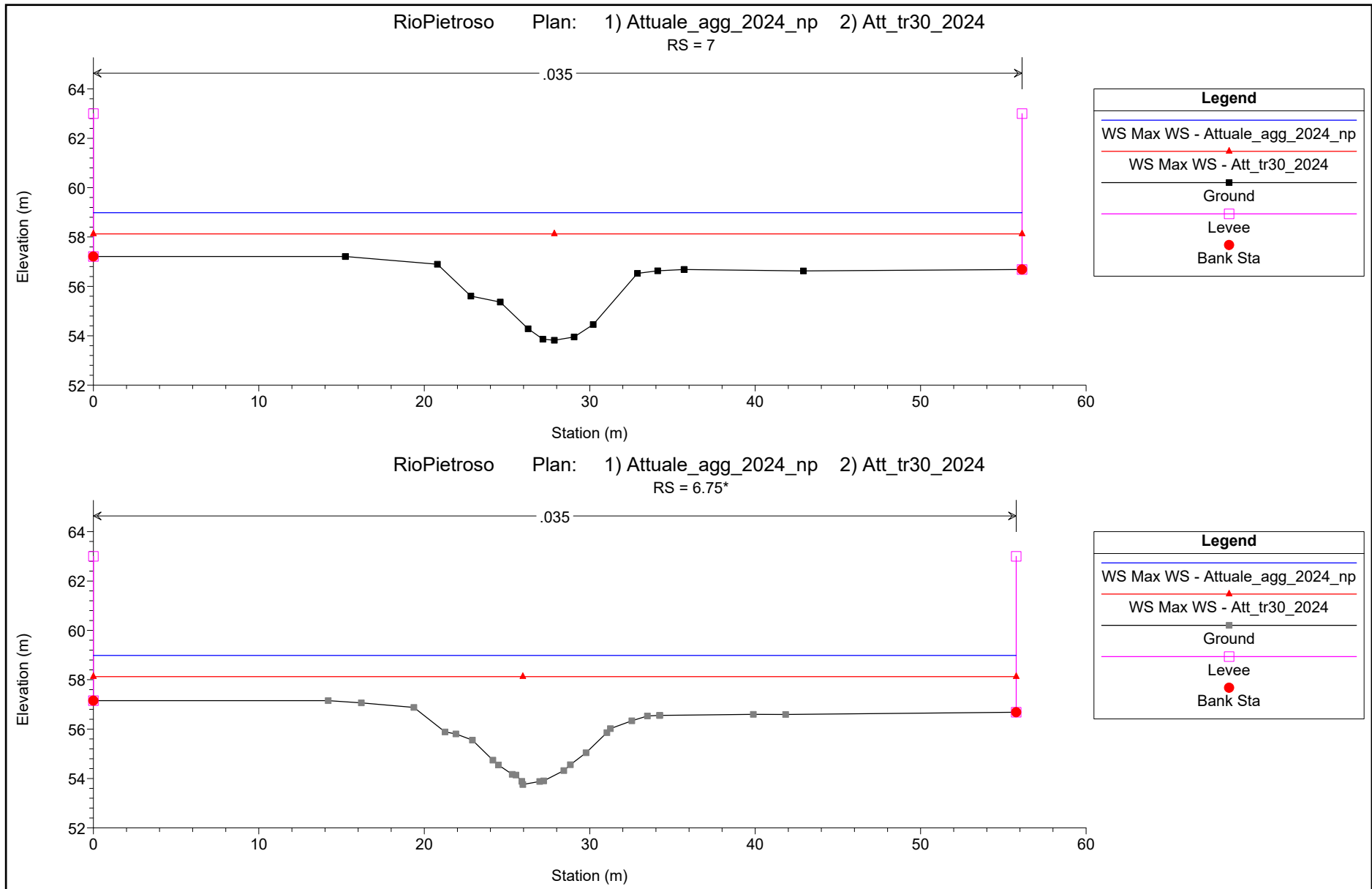




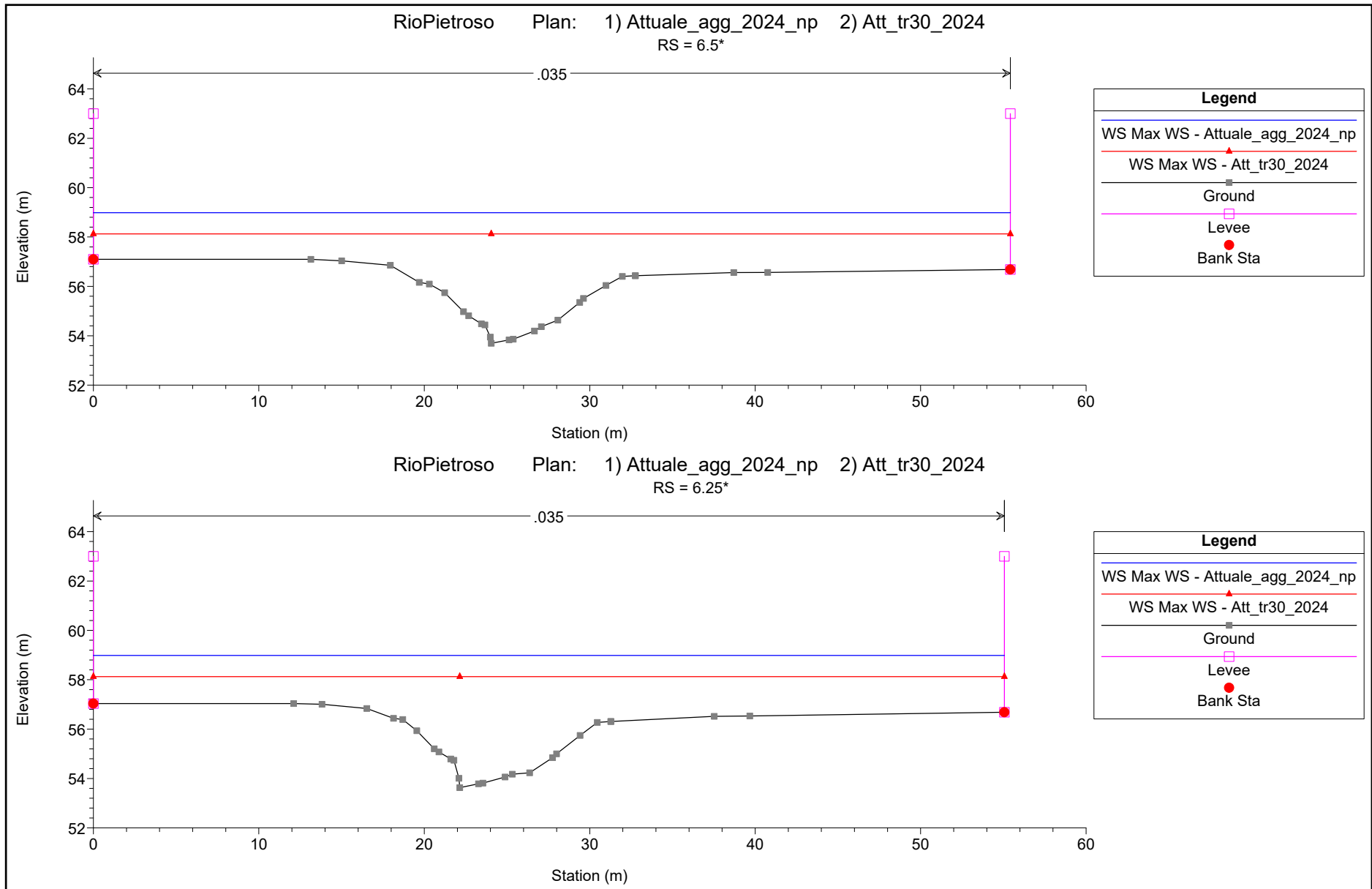


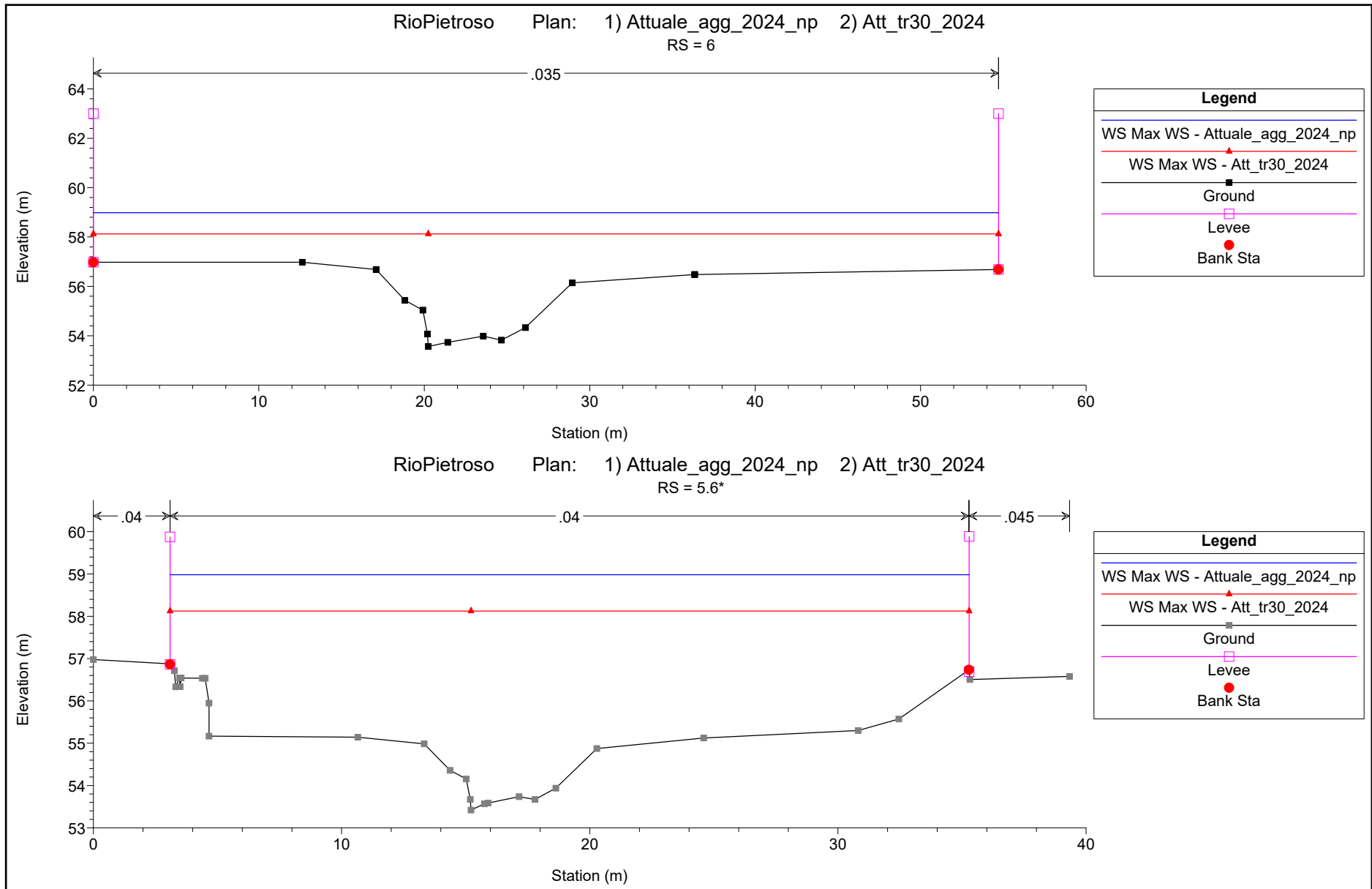


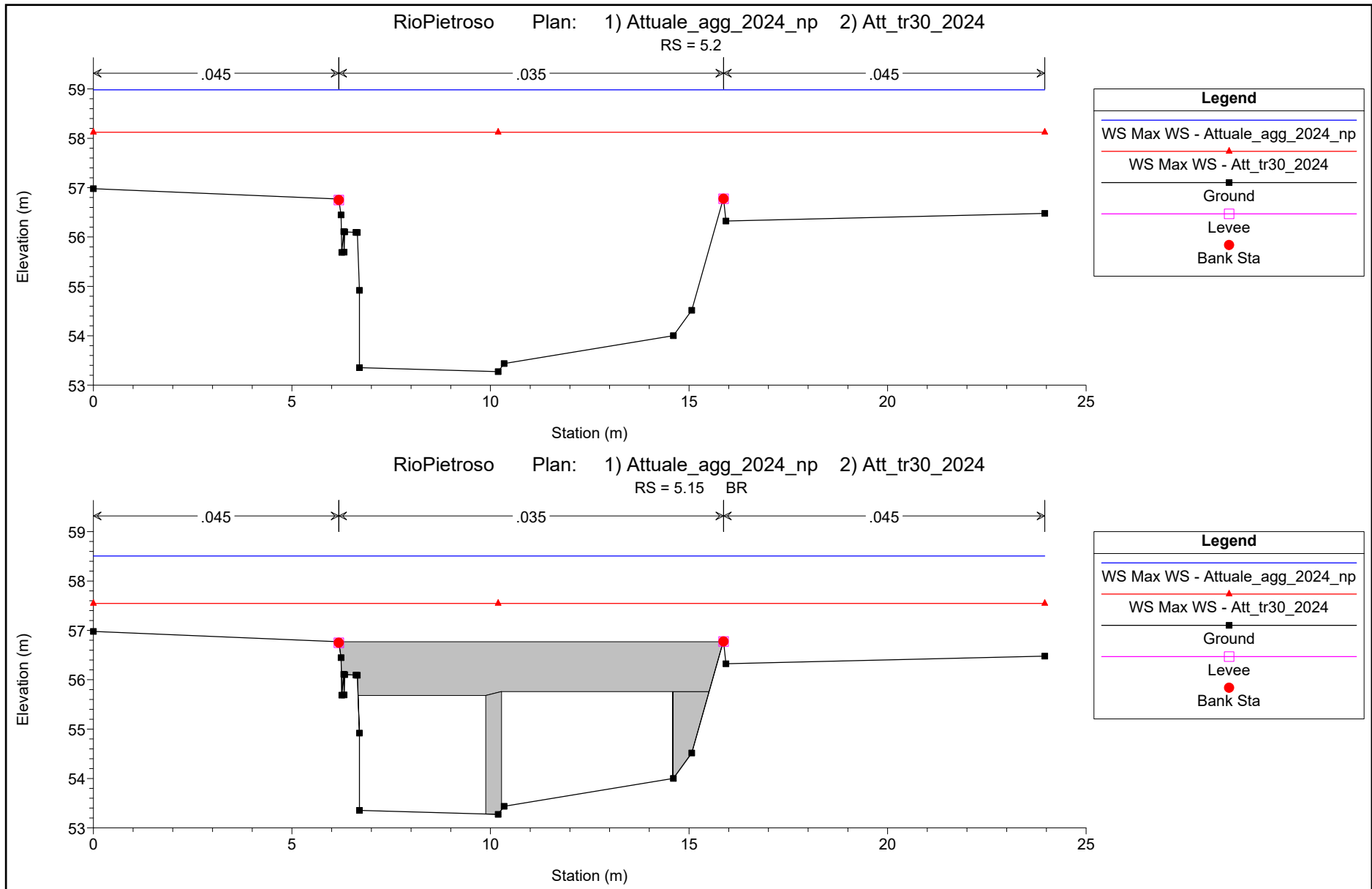


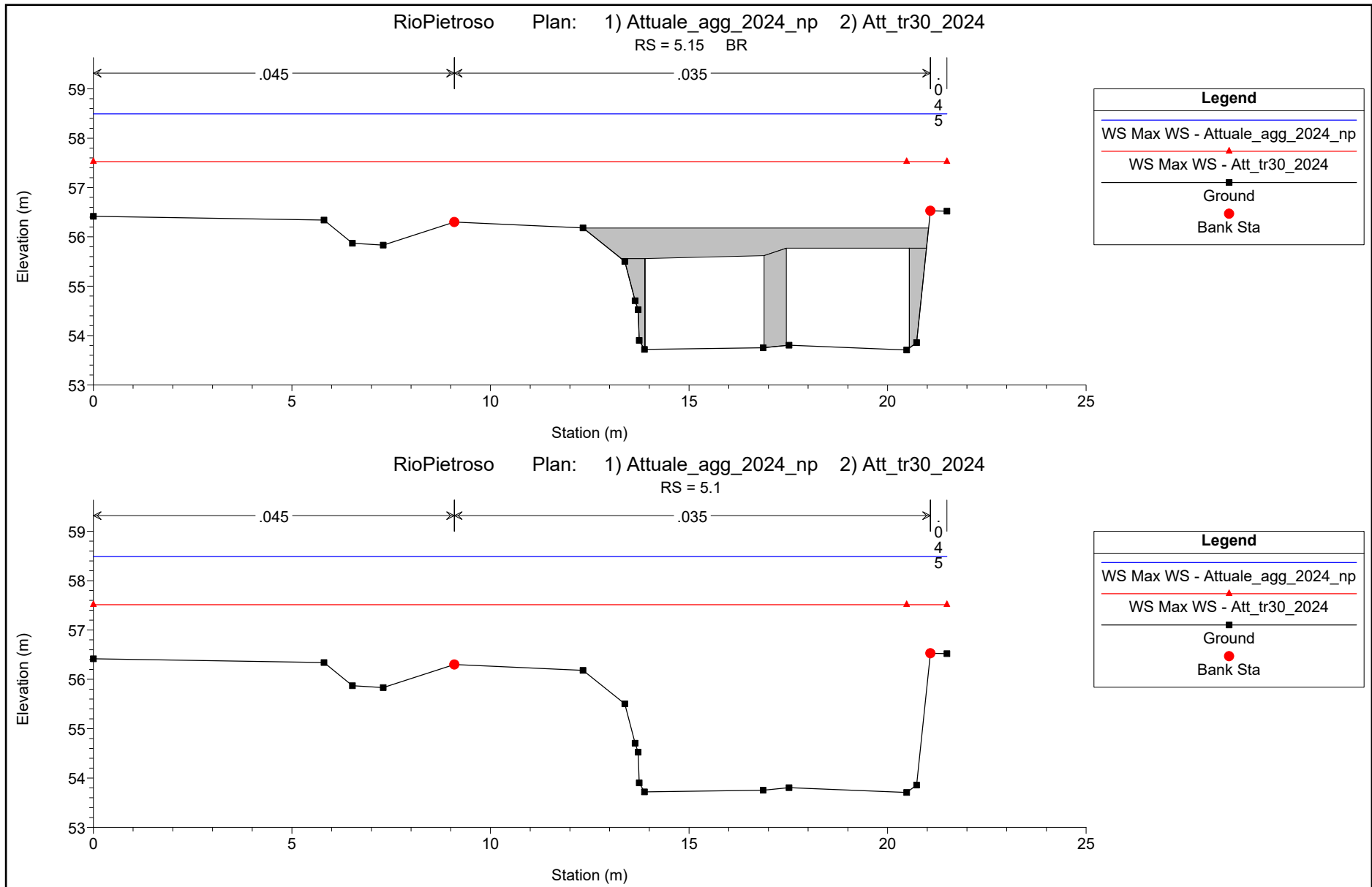


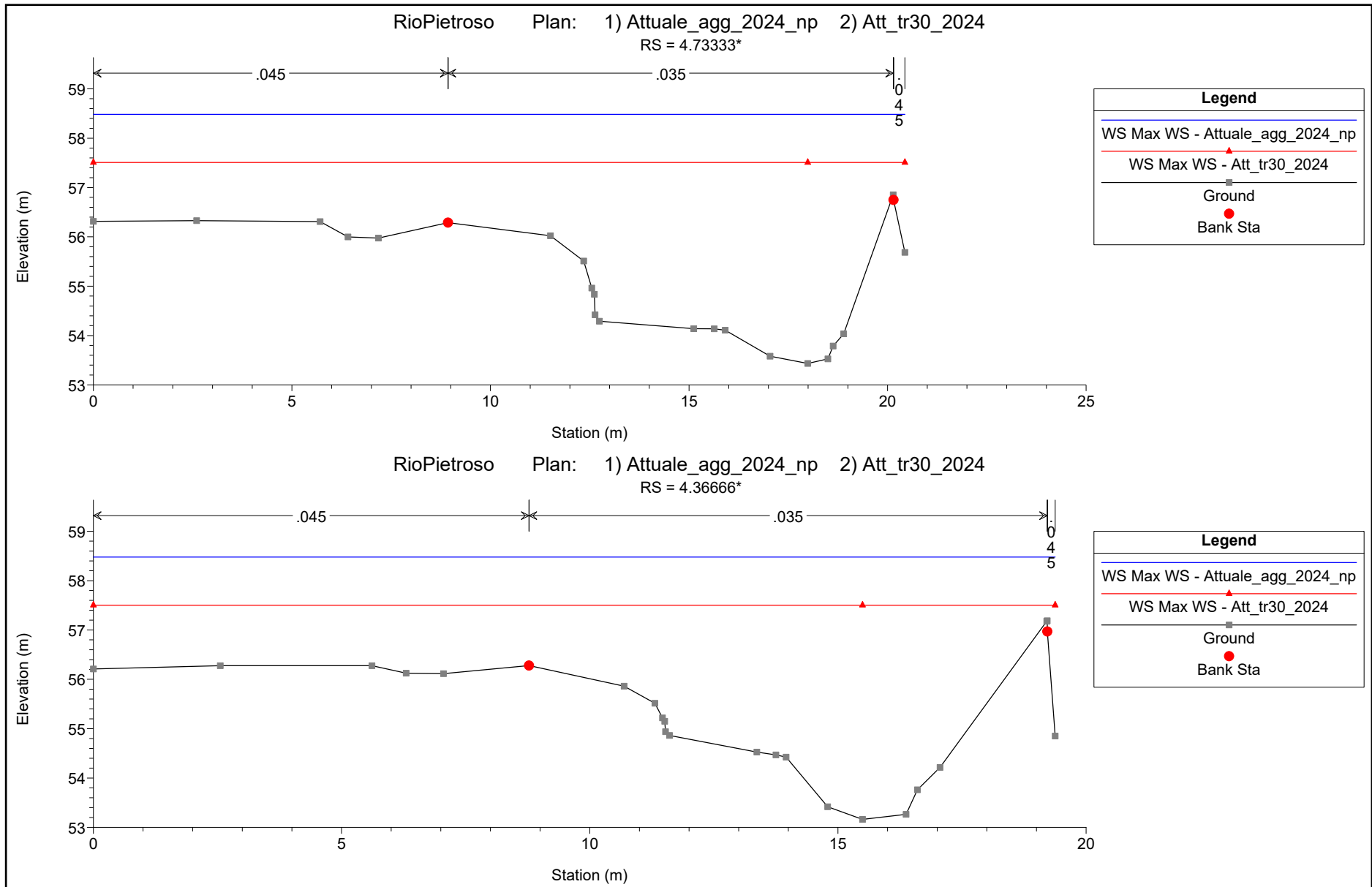


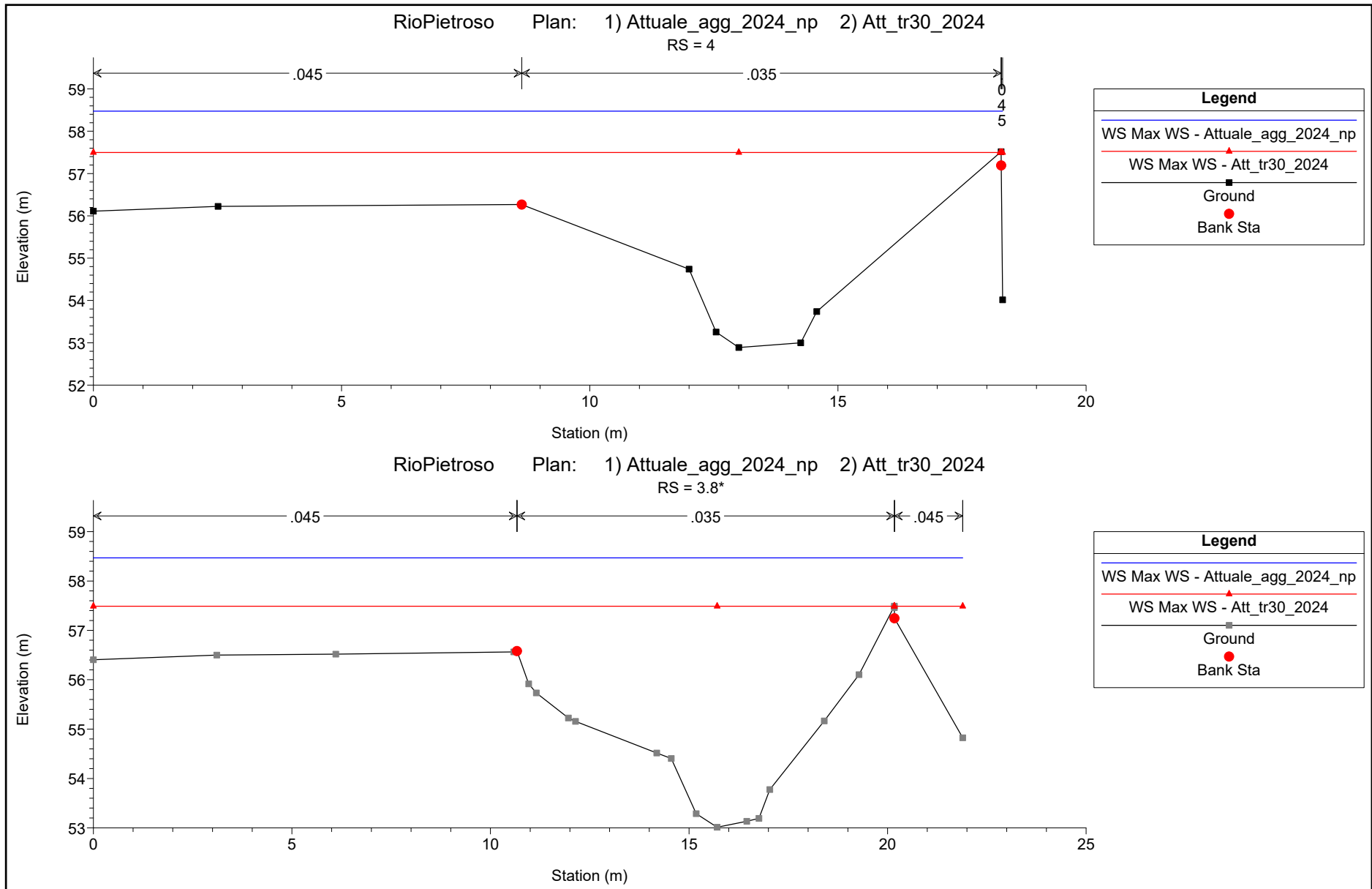


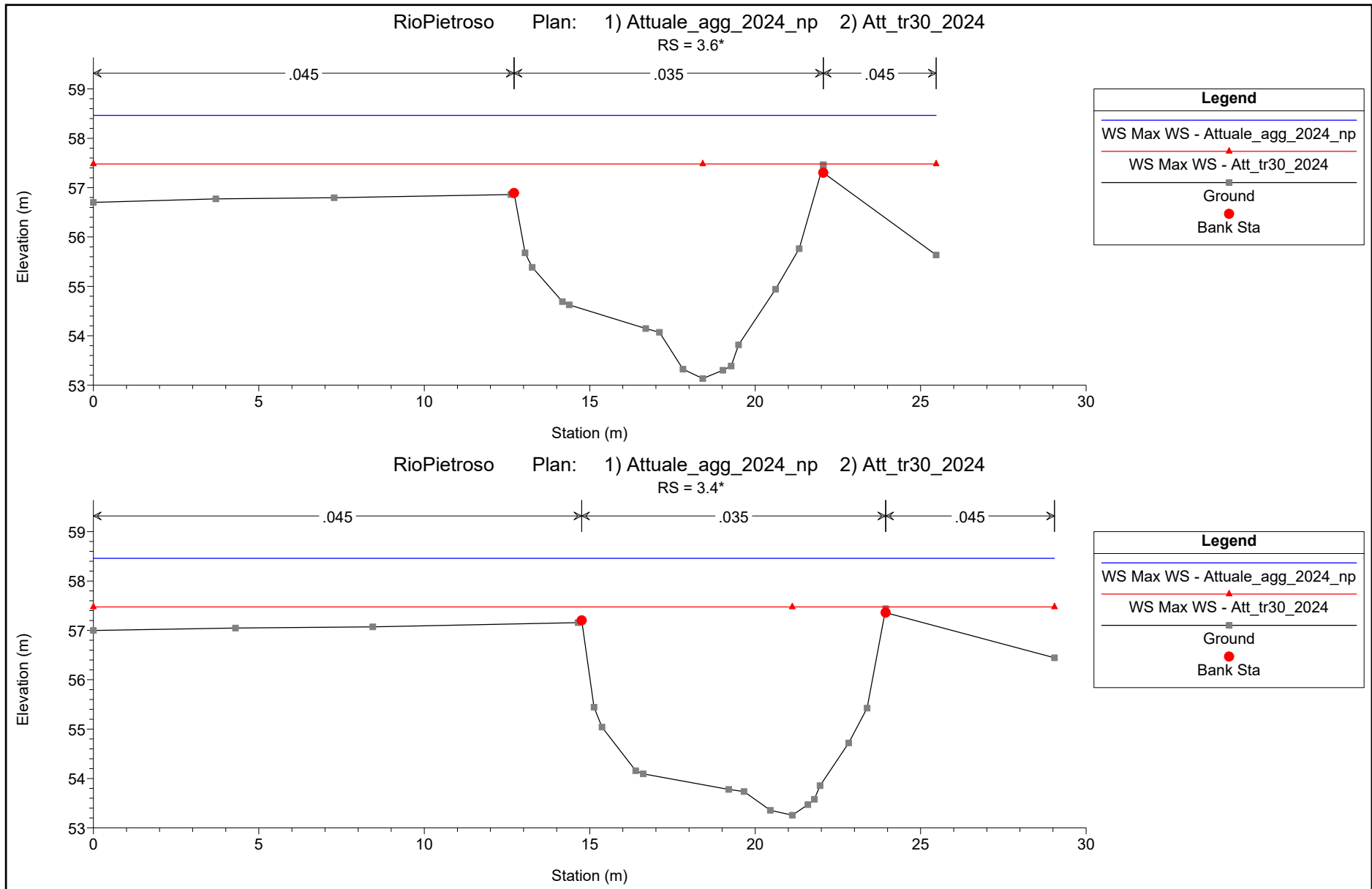


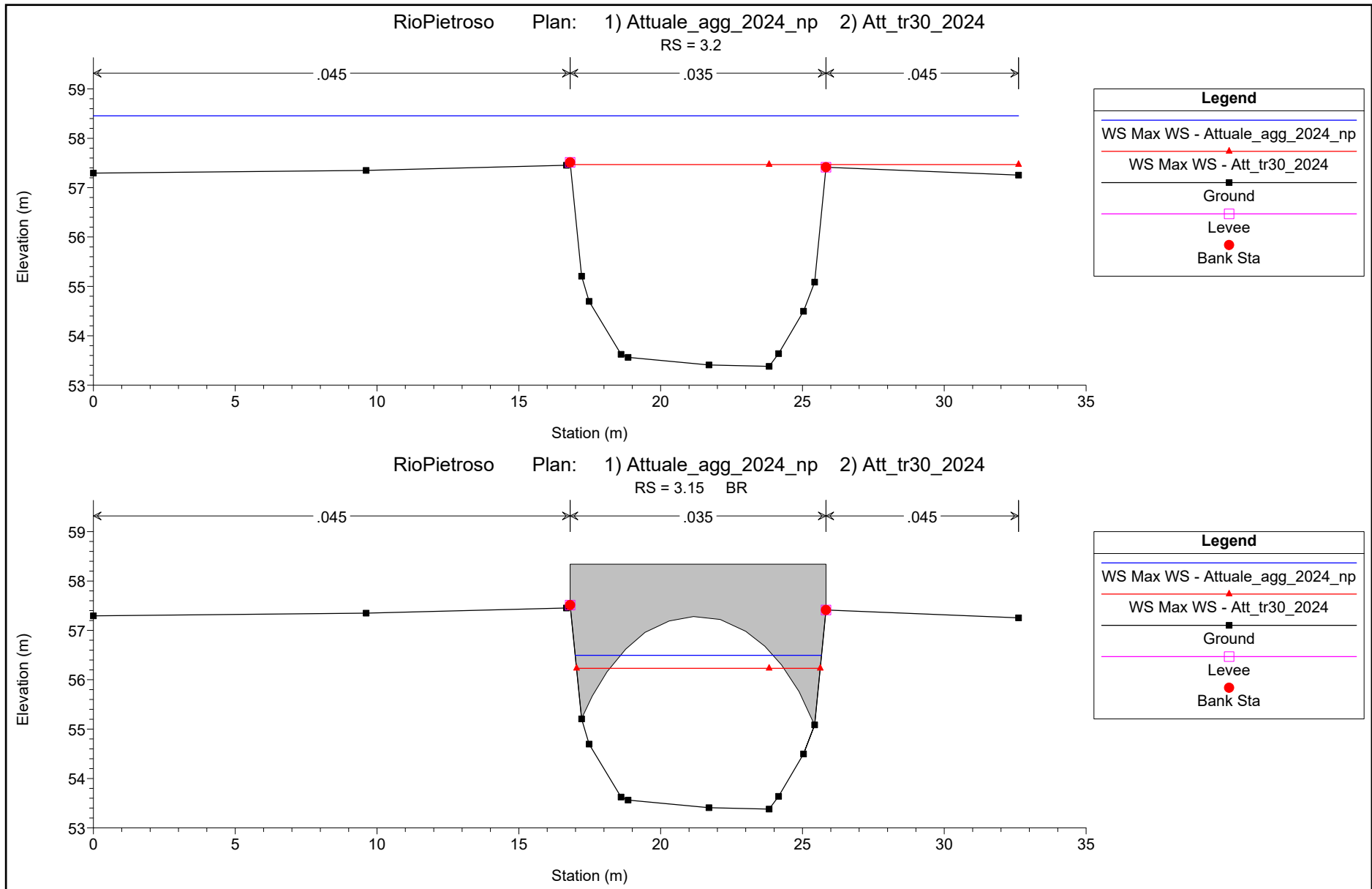




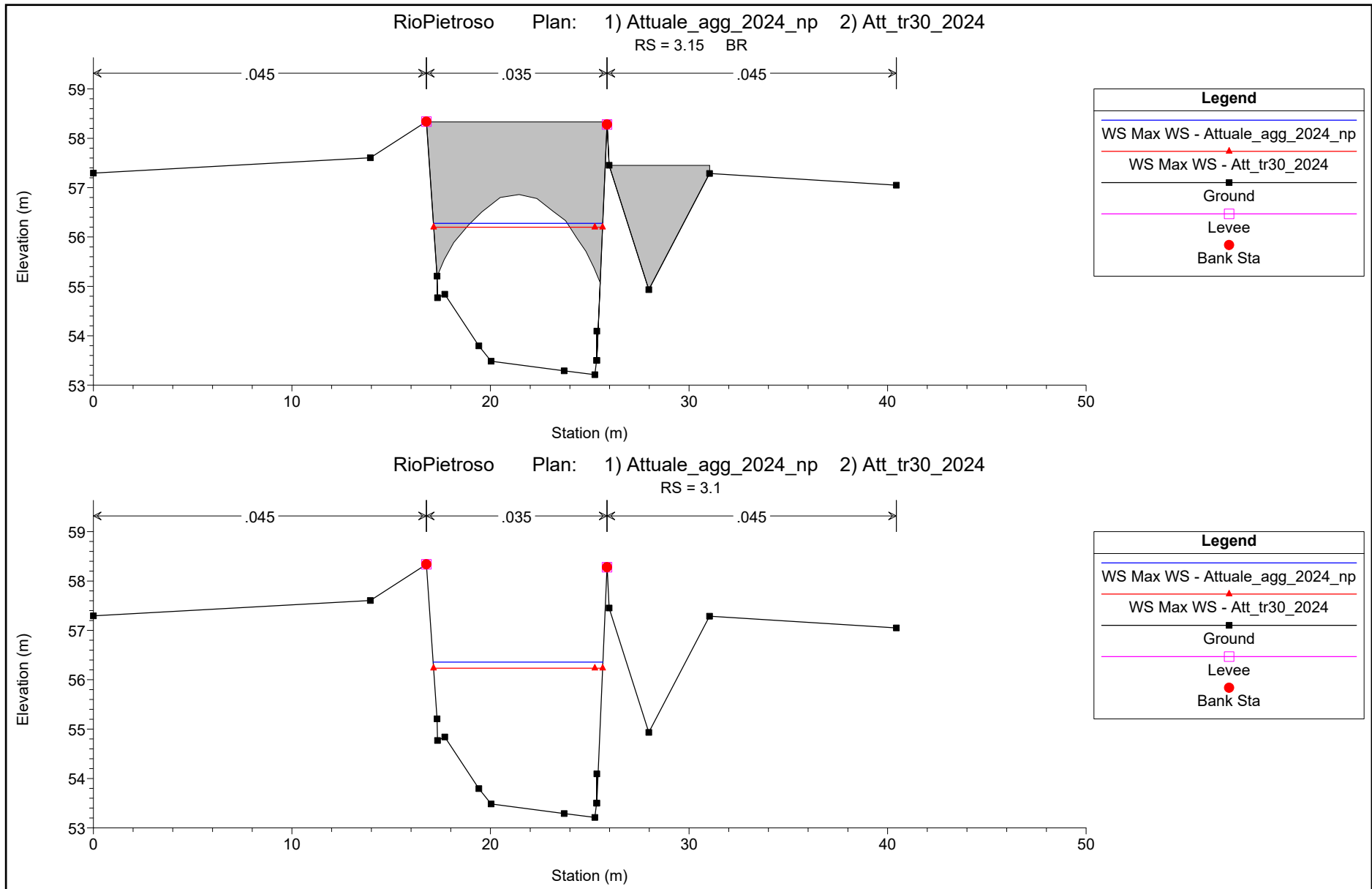


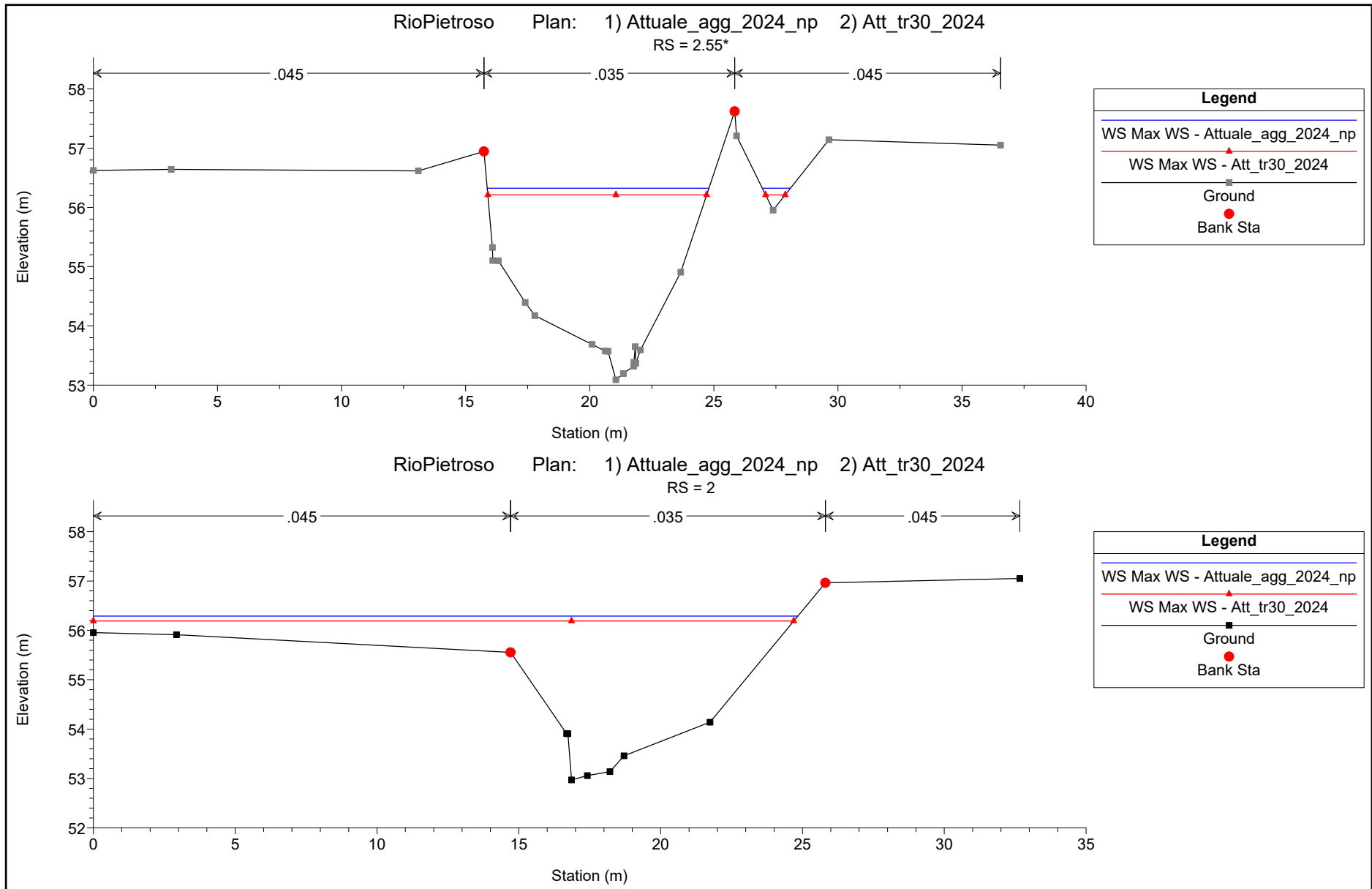


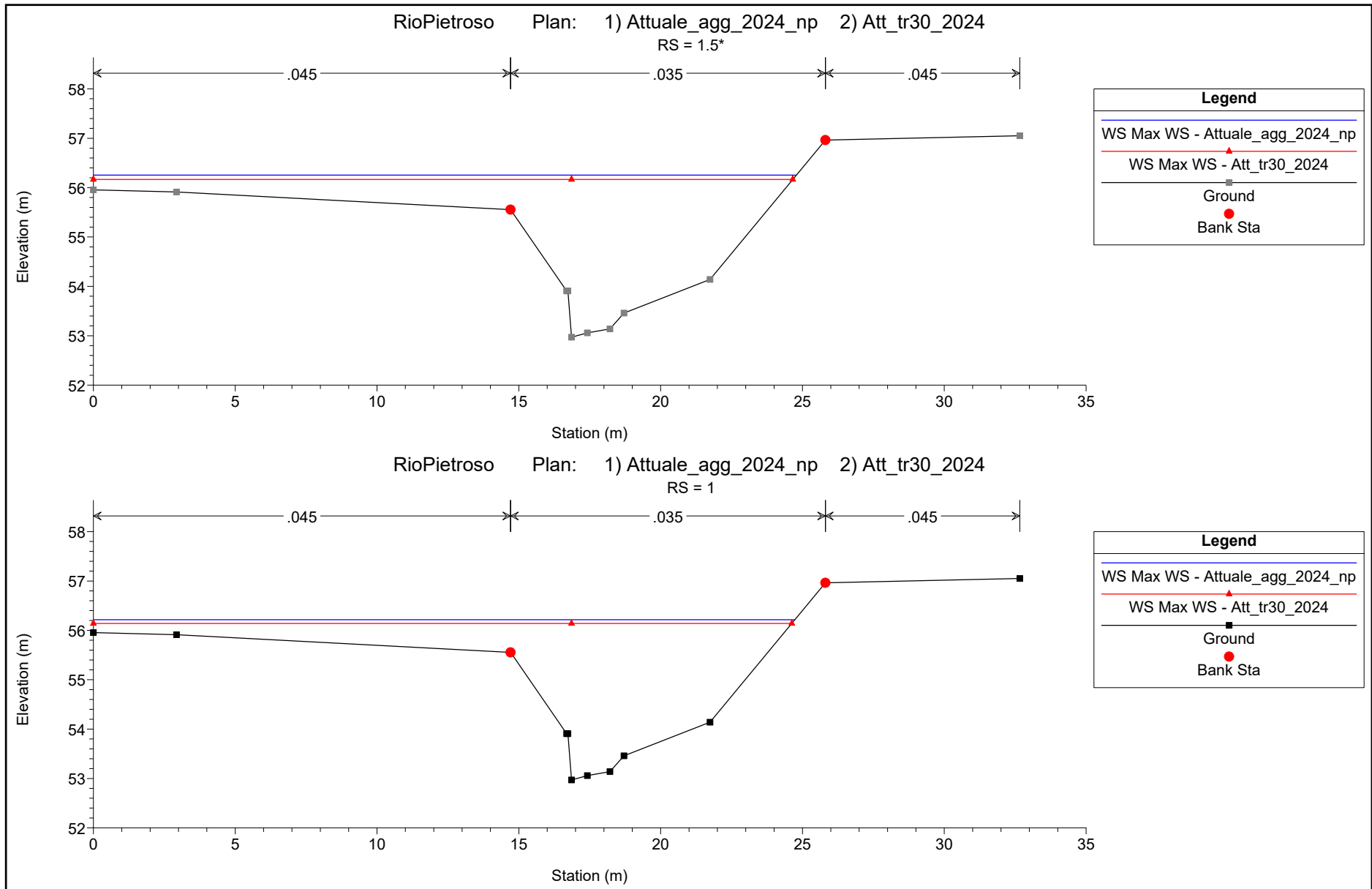


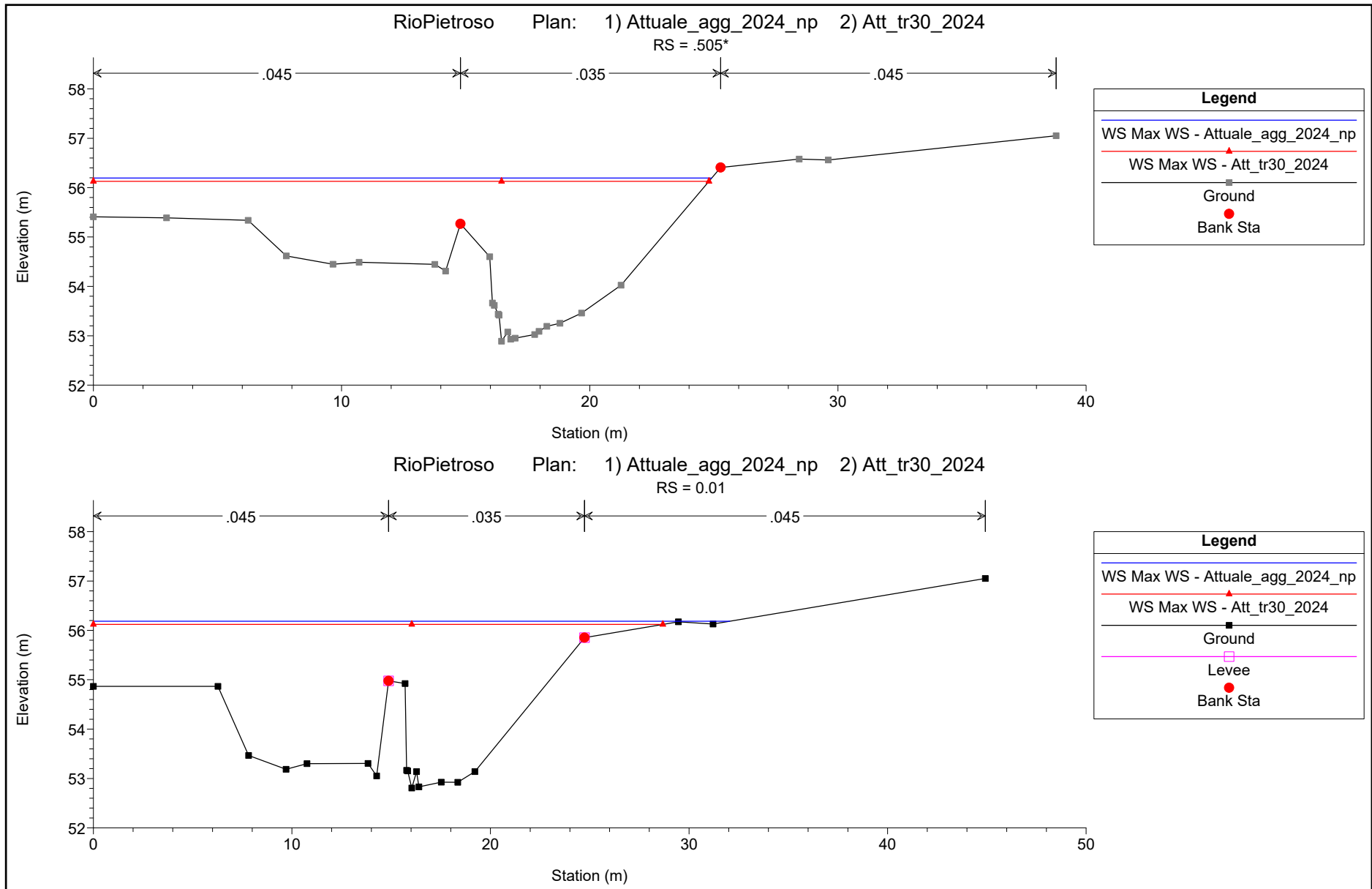












HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS

Reach	River Sta	Profile	Plan	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
Arnese	30	Max WS	Attuale_agg_2024_np	70.56	60.60	63.49	63.52	64.17	0.013423	3.65	19.31	14.64	1.02
Arnese	30	Max WS	Att_tr30_2024	48.61	60.60	63.17		63.69	0.009300	3.19	15.22	10.41	0.84
Arnese	29.8333*	Max WS	Attuale_agg_2024_np	70.56	60.53	63.39		63.79	0.007788	2.81	25.15	19.99	0.80
Arnese	29.8333*	Max WS	Att_tr30_2024	48.61	60.53	63.09		63.40	0.006033	2.45	19.87	15.91	0.70
Arnese	29.6666*	Max WS	Attuale_agg_2024_np	70.56	60.46	63.33		63.61	0.005168	2.33	30.25	23.90	0.66
Arnese	29.6666*	Max WS	Att_tr30_2024	48.61	60.46	63.04		63.26	0.004423	2.04	23.88	20.47	0.60
Arnese	29.5*	Max WS	Attuale_agg_2024_np	70.56	60.39	63.29		63.51	0.004033	2.08	33.87	26.30	0.59
Arnese	29.5*	Max WS	Att_tr30_2024	48.61	60.39	63.01		63.17	0.003685	1.82	26.78	24.00	0.55
Arnese	29.3333*	Max WS	Attuale_agg_2024_np	70.56	60.32	63.25		63.45	0.003663	1.99	35.53	27.46	0.56
Arnese	29.3333*	Max WS	Att_tr30_2024	48.61	60.32	62.97		63.13	0.003631	1.74	27.94	26.48	0.54
Arnese	29.1666*	Max WS	Attuale_agg_2024_np	70.56	60.25	63.21		63.42	0.004132	2.02	34.91	28.48	0.58
Arnese	29.1666*	Max WS	Att_tr30_2024	48.61	60.25	62.93		63.10	0.004519	1.80	26.96	28.41	0.59
Arnese	29	Max WS	Attuale_agg_2024_np	70.56	60.18	63.16		63.42	0.006139	2.23	31.70	29.50	0.69
Arnese	29	Max WS	Att_tr30_2024	48.61	60.18	62.87		63.10	0.008097	2.10	23.16	29.50	0.76
Arnese	28.8888*	Max WS	Attuale_agg_2024_np	70.56	60.06	63.10		63.38	0.006652	2.34	30.10	27.85	0.72
Arnese	28.8888*	Max WS	Att_tr30_2024	48.61	60.06	62.79		63.06	0.009494	2.27	21.44	27.51	0.82
Arnese	28.7777*	Max WS	Attuale_agg_2024_np	70.56	59.94	63.04		63.35	0.007371	2.48	28.50	26.20	0.76
Arnese	28.7777*	Max WS	Att_tr30_2024	48.61	59.94	62.70		63.01	0.010846	2.47	19.69	24.51	0.88
Arnese	28.6666*	Max WS	Attuale_agg_2024_np	70.56	59.82	62.97		63.32	0.008077	2.62	26.94	24.55	0.80
Arnese	28.6666*	Max WS	Att_tr30_2024	48.61	59.82	62.59		62.96	0.012185	2.69	18.04	21.32	0.94
Arnese	28.5555*	Max WS	Attuale_agg_2024_np	70.56	59.71	62.89		63.28	0.009105	2.78	25.41	22.90	0.84
Arnese	28.5555*	Max WS	Att_tr30_2024	48.61	59.71	62.48	62.45	62.91	0.013003	2.92	16.62	18.00	0.97
Arnese	28.4444*	Max WS	Attuale_agg_2024_np	70.56	59.59	62.79		63.24	0.010292	2.95	23.91	21.25	0.89
Arnese	28.4444*	Max WS	Att_tr30_2024	48.60	59.59	62.36		62.85	0.011852	3.10	15.70	14.14	0.94
Arnese	28.3333*	Max WS	Attuale_agg_2024_np	70.56	59.47	62.69		63.20	0.011683	3.15	22.43	19.60	0.94
Arnese	28.3333*	Max WS	Att_tr30_2024	48.60	59.47	62.26		62.77	0.010596	3.18	15.30	11.80	0.89

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	28.2222*	Max WS	Attuale_agg_2024_np	70.56	59.35	62.58	62.55	63.15	0.012788	3.35	21.08	17.64	0.98
Arnese	28.2222*	Max WS	Att_tr30_2024	48.60	59.35	62.16		62.68	0.009921	3.19	15.25	10.80	0.86
Arnese	28.1111*	Max WS	Attuale_agg_2024_np	70.56	59.23	62.46	62.39	63.09	0.012506	3.51	20.11	14.81	0.96
Arnese	28.1111*	Max WS	Att_tr30_2024	48.60	59.23	62.07		62.58	0.009656	3.17	15.33	10.41	0.83
Arnese	28	Max WS	Attuale_agg_2024_np	70.56	59.11	62.35		63.01	0.011762	3.60	19.59	12.53	0.92
Arnese	28	Max WS	Att_tr30_2024	48.60	59.11	61.98		62.48	0.009401	3.14	15.48	10.07	0.81
Arnese	27.6666*	Max WS	Attuale_agg_2024_np	70.56	59.11	62.25	62.20	63.00	0.012902	3.83	18.43	11.38	0.96
Arnese	27.6666*	Max WS	Att_tr30_2024	48.60	59.11	61.90		62.46	0.010538	3.30	14.73	9.62	0.85
Arnese	27.3333*	Max WS	Attuale_agg_2024_np	70.56	59.11	62.14	62.20	63.00	0.015568	4.11	17.18	11.02	1.05
Arnese	27.3333*	Max WS	Att_tr30_2024	48.60	59.11	61.81		62.44	0.011763	3.49	13.92	8.97	0.90
Arnese	27	Max WS	Attuale_agg_2024_np	70.56	59.11	62.00	62.20	63.03	0.019057	4.48	15.75	10.22	1.15
Arnese	27	Max WS	Att_tr30_2024	48.60	59.11	61.72		62.42	0.012818	3.71	13.11	8.07	0.93
Arnese	26.8*	Max WS	Attuale_agg_2024_np	70.56	59.04	61.87	61.84	62.49	0.014176	3.50	20.14	15.40	0.98
Arnese	26.8*	Max WS	Att_tr30_2024	10.00	59.04	61.70		61.71	0.000364	0.56	17.70	13.15	0.16
Arnese	26.6*	Max WS	Attuale_agg_2024_np	70.56	58.97	61.76		62.19	0.011802	2.91	24.25	20.56	0.86
Arnese	26.6*	Max WS	Att_tr30_2024	10.00	58.97	61.70		61.71	0.000279	0.44	22.99	20.39	0.13
Arnese	26.4*	Max WS	Attuale_agg_2024_np	10.00	58.90	61.70		61.71	0.000193	0.35	28.40	24.45	0.10
Arnese	26.4*	Max WS	Att_tr30_2024	10.00	58.90	61.70		61.71	0.000193	0.35	28.40	24.45	0.10
Arnese	26.2*	Max WS	Attuale_agg_2024_np	10.00	58.83	61.70		61.71	0.000150	0.30	33.30	27.84	0.09
Arnese	26.2*	Max WS	Att_tr30_2024	10.00	58.83	61.70		61.71	0.000150	0.30	33.30	27.84	0.09
Arnese	26	Max WS	Attuale_agg_2024_np	70.56	58.77	61.51		61.76	0.007029	2.24	31.54	31.13	0.71
Arnese	26	Max WS	Att_tr30_2024	48.60	58.77	61.35		61.52	0.005810	1.83	26.61	31.13	0.63
Arnese	25.5*	Max WS	Attuale_agg_2024_np	70.56	58.77	61.42		61.72	0.015901	2.46	28.65	31.13	0.82
Arnese	25.5*	Max WS	Att_tr30_2024	48.60	58.77	61.28		61.48	0.012868	2.00	24.33	31.13	0.72
Arnese	25	Max WS	Attuale_agg_2024_np	70.56	58.77	61.29	61.30	61.70	0.015458	2.85	24.77	31.13	1.02
Arnese	25	Max WS	Att_tr30_2024	48.60	58.77	61.18		61.45	0.012012	2.28	21.31	31.12	0.88

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	24	Max WS	Attuale_agg_2024_np	70.54	58.77	61.08	61.30	61.85	0.043060	3.89	18.13	31.10	1.63
Arnese	24	Max WS	Att_tr30_2024	48.60	58.77	60.84	61.13	61.83	0.081584	4.42	11.00	24.97	2.13
Arnese	23	Max WS	Attuale_agg_2024_np	70.52	57.75	60.88		61.05	0.002362	1.83	38.61	22.16	0.44
Arnese	23	Max WS	Att_tr30_2024	48.58	57.75	60.48		60.62	0.002537	1.64	29.66	21.73	0.45
Arnese	22.6666*	Max WS	Attuale_agg_2024_np	70.52	57.75	60.87		61.03	0.002472	1.80	39.14	24.29	0.45
Arnese	22.6666*	Max WS	Att_tr30_2024	48.57	57.75	60.46		60.60	0.002626	1.65	29.47	22.13	0.46
Arnese	22.3333*	Max WS	Attuale_agg_2024_np	70.51	57.75	60.85		61.01	0.002745	1.81	38.99	26.42	0.48
Arnese	22.3333*	Max WS	Att_tr30_2024	48.57	57.75	60.44		60.58	0.002718	1.68	28.99	21.78	0.46
Arnese	22	Max WS	Attuale_agg_2024_np	70.51	57.75	60.82		61.00	0.003098	1.85	38.12	27.39	0.50
Arnese	22	Max WS	Att_tr30_2024	48.57	57.75	60.42		60.57	0.002806	1.71	28.40	20.95	0.47
Arnese	21.9*	Max WS	Attuale_agg_2024_np	70.51	57.75	60.80		60.95	0.002808	1.77	44.40	44.21	0.48
Arnese	21.9*	Max WS	Att_tr30_2024	48.57	57.75	60.39		60.54	0.002863	1.72	29.43	29.05	0.47
Arnese	21.8*	Max WS	Attuale_agg_2024_np	70.50	57.75	60.77		60.93	0.002974	1.81	43.19	43.76	0.49
Arnese	21.8*	Max WS	Att_tr30_2024	48.57	57.75	60.37		60.52	0.003013	1.76	28.65	28.08	0.48
Arnese	21.7*	Max WS	Attuale_agg_2024_np	70.49	57.75	60.74		60.91	0.003160	1.86	41.92	43.29	0.51
Arnese	21.7*	Max WS	Att_tr30_2024	48.56	57.75	60.34		60.50	0.003179	1.80	27.84	27.04	0.50
Arnese	21.6*	Max WS	Attuale_agg_2024_np	70.48	57.75	60.71		60.89	0.003366	1.91	40.61	42.80	0.52
Arnese	21.6*	Max WS	Att_tr30_2024	48.56	57.75	60.31		60.48	0.003361	1.85	27.03	25.95	0.51
Arnese	21.5*	Max WS	Attuale_agg_2024_np	70.47	57.75	60.68		60.87	0.003600	1.97	39.22	42.28	0.54
Arnese	21.5*	Max WS	Att_tr30_2024	48.56	57.75	60.27		60.46	0.003563	1.90	26.20	24.79	0.52
Arnese	21.4*	Max WS	Attuale_agg_2024_np	70.47	57.75	60.64		60.84	0.003846	2.03	37.78	40.12	0.56
Arnese	21.4*	Max WS	Att_tr30_2024	48.56	57.75	60.24		60.43	0.003786	1.95	25.37	23.56	0.54
Arnese	21.3*	Max WS	Attuale_agg_2024_np	70.46	57.75	60.60		60.82	0.004120	2.10	36.33	37.63	0.57
Arnese	21.3*	Max WS	Att_tr30_2024	48.56	57.75	60.20		60.41	0.004034	2.01	24.52	22.25	0.56
Arnese	21.2*	Max WS	Attuale_agg_2024_np	70.44	57.75	60.56		60.80	0.004428	2.17	34.87	35.14	0.59
Arnese	21.2*	Max WS	Att_tr30_2024	48.55	57.75	60.16		60.38	0.004311	2.07	23.67	20.86	0.57

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	21.1*	Max WS	Attuale_agg_2024_np	70.44	57.75	60.52		60.77	0.004779	2.25	33.36	33.67	0.62
Arnese	21.1*	Max WS	Att_tr30_2024	48.55	57.75	60.12		60.35	0.004621	2.14	22.83	19.36	0.59
Arnese	21	Max WS	Attuale_agg_2024_np	70.42	57.75	60.47		60.75	0.005187	2.34	31.83	31.84	0.64
Arnese	21	Max WS	Att_tr30_2024	48.55	57.75	60.08		60.33	0.004970	2.21	21.99	17.75	0.61
Arnese	20.875*	Max WS	Attuale_agg_2024_np	70.41	57.62	60.42		60.68	0.005018	2.29	32.73	34.10	0.63
Arnese	20.875*	Max WS	Att_tr30_2024	48.54	57.62	60.03		60.27	0.004749	2.18	22.34	18.61	0.61
Arnese	20.75*	Max WS	Attuale_agg_2024_np	70.40	57.49	60.37		60.62	0.004878	2.24	33.95	39.63	0.63
Arnese	20.75*	Max WS	Att_tr30_2024	48.54	57.49	59.98		60.22	0.004629	2.15	22.67	19.76	0.60
Arnese	20.625*	Max WS	Attuale_agg_2024_np	70.38	57.36	60.33		60.56	0.004699	2.17	35.34	40.11	0.62
Arnese	20.625*	Max WS	Att_tr30_2024	48.54	57.36	59.94		60.17	0.004605	2.13	22.96	21.23	0.61
Arnese	20.5*	Max WS	Attuale_agg_2024_np	70.36	57.23	60.28		60.50	0.004570	2.10	36.65	40.76	0.61
Arnese	20.5*	Max WS	Att_tr30_2024	48.54	57.23	59.89		60.12	0.004672	2.11	23.21	23.17	0.61
Arnese	20.375*	Max WS	Attuale_agg_2024_np	70.34	57.10	60.23		60.43	0.004489	2.04	37.91	41.67	0.60
Arnese	20.375*	Max WS	Att_tr30_2024	48.54	57.10	59.84		60.07	0.004821	2.10	23.47	26.02	0.62
Arnese	20.25*	Max WS	Attuale_agg_2024_np	70.31	56.97	60.19		60.38	0.004466	1.97	39.11	42.97	0.60
Arnese	20.25*	Max WS	Att_tr30_2024	48.53	56.97	59.79		60.02	0.005018	2.09	24.10	32.12	0.63
Arnese	20.125*	Max WS	Attuale_agg_2024_np	70.30	56.84	60.15		60.32	0.004186	1.91	40.46	47.83	0.58
Arnese	20.125*	Max WS	Att_tr30_2024	48.53	56.84	59.74		59.96	0.005174	2.07	24.75	33.43	0.63
Arnese	20	Max WS	Attuale_agg_2024_np	70.27	56.71	60.10		60.32	0.005033	2.06	34.10	30.85	0.63
Arnese	20	Max WS	Att_tr30_2024	48.53	56.71	59.69		59.92	0.005364	2.11	22.97	20.77	0.64
Arnese	19.8*	Max WS	Attuale_agg_2024_np	70.23	56.82	60.06		60.29	0.004473	2.11	33.27	26.56	0.60
Arnese	19.8*	Max WS	Att_tr30_2024	10.00	56.82	59.66		59.67	0.000282	0.44	22.66	24.21	0.15
Arnese	19.6*	Max WS	Attuale_agg_2024_np	70.22	56.93	60.03		60.29	0.004440	2.26	31.12	22.27	0.61
Arnese	19.6*	Max WS	Att_tr30_2024	10.00	56.93	59.65		59.66	0.000234	0.44	22.81	21.49	0.14
Arnese	19.4*	Max WS	Attuale_agg_2024_np	70.17	57.03	59.99		60.32	0.004954	2.55	27.54	17.99	0.66
Arnese	19.4*	Max WS	Att_tr30_2024	10.00	57.03	59.65		59.66	0.000223	0.47	21.38	17.55	0.14



HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	19.2*	Max WS	Attuale_agg_2024_np	70.14	57.14	59.94		60.44	0.007029	3.13	22.42	13.70	0.78
Arnese	19.2*	Max WS	Att_tr30_2024	10.00	57.14	59.63		59.64	0.000269	0.55	18.17	13.16	0.15
Arnese	19	Max WS	Attuale_agg_2024_np	70.08	57.24	59.84	59.97	60.87	0.016721	4.50	15.57	9.41	1.12
Arnese	19	Max WS	Att_tr30_2024	48.52	57.24	59.37	59.54	60.29	0.018034	4.26	11.39	8.15	1.15
Arnese	18.8*	Max WS	Attuale_agg_2024_np	69.89	56.90	59.71	59.79	60.60	0.014723	4.20	16.66	10.57	1.07
Arnese	18.8*	Max WS	Att_tr30_2024	48.51	56.90	59.23	59.31	60.05	0.015461	4.01	12.11	8.32	1.06
Arnese	18.6*	Max WS	Attuale_agg_2024_np	69.40	56.56	59.59	59.59	60.38	0.013664	3.94	17.62	11.23	1.00
Arnese	18.6*	Max WS	Att_tr30_2024	48.50	56.56	59.11		59.81	0.012442	3.70	13.09	8.10	0.93
Arnese	18.4*	Max WS	Attuale_agg_2024_np	68.67	56.22	59.48		60.17	0.011298	3.68	18.67	10.70	0.89
Arnese	18.4*	Max WS	Att_tr30_2024	48.48	56.22	59.02		59.58	0.009225	3.33	14.58	7.90	0.78
Arnese	18.2	Max WS	Attuale_agg_2024_np	67.85	55.88	59.40		59.96	0.007319	3.31	20.51	8.86	0.69
Arnese	18.2	Max WS	Att_tr30_2024	48.46	55.88	58.95		59.38	0.006059	2.91	16.66	7.51	0.62
Arnese	18.1	Max WS	Attuale_agg_2024_np	66.98	56.07	59.35		59.82	0.006006	3.03	22.10	10.59	0.67
Arnese	18.1	Max WS	Att_tr30_2024	48.45	56.07	58.91		59.28	0.004826	2.69	17.99	8.55	0.59
Arnese	17.7333*	Max WS	Attuale_agg_2024_np	65.55	55.94	59.29		59.71	0.007460	2.88	22.73	13.24	0.70
Arnese	17.7333*	Max WS	Att_tr30_2024	48.42	55.94	58.86		59.23	0.006085	2.69	17.98	9.61	0.63
Arnese	17.3666*	Max WS	Attuale_agg_2024_np	62.77	55.82	59.21		59.59	0.009441	2.73	22.99	15.13	0.71
Arnese	17.3666*	Max WS	Att_tr30_2024	48.38	55.82	58.78		59.18	0.010286	2.78	17.41	11.75	0.73
Arnese	17	Max WS	Attuale_agg_2024_np	59.77	55.69	59.13		59.47	0.007424	2.60	22.99	17.56	0.73
Arnese	17	Max WS	Att_tr30_2024	48.28	55.69	58.69		59.12	0.009038	2.91	16.56	11.74	0.78
Arnese	16.9			Lat Struct									
Arnese	16.8			Lat Struct									
Arnese	16.5*	Max WS	Attuale_agg_2024_np	51.45	55.49	59.08		59.31	0.003795	2.10	24.51	12.05	0.47
Arnese	16.5*	Max WS	Att_tr30_2024	45.96	55.49	58.63		58.92	0.006447	2.42	19.02	11.83	0.61
Arnese	16	Max WS	Attuale_agg_2024_np	42.88	55.29	59.05		59.37	0.004480	2.52	17.02	6.54	0.50
Arnese	16	Max WS	Att_tr30_2024	44.14	55.29	58.57		59.08	0.008352	3.18	13.86	6.53	0.70

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	15.5*	Max WS	Attuale_agg_2024_np	36.86	55.24	59.03		59.26	0.002652	2.11	17.47	6.46	0.41
Arnese	15.5*	Max WS	Att_tr30_2024	43.41	55.24	58.52		59.00	0.006870	3.06	14.19	6.44	0.66
Arnese	15	Max WS	Attuale_agg_2024_np	32.30	55.18	59.01		59.19	0.002275	1.86	17.35	6.38	0.36
Arnese	15	Max WS	Att_tr30_2024	43.16	55.18	58.48		58.97	0.007325	3.10	13.93	6.32	0.67
Arnese	14.75*	Max WS	Attuale_agg_2024_np	26.09	55.20	59.00		59.08	0.000793	1.22	21.31	8.08	0.24
Arnese	14.75*	Max WS	Att_tr30_2024	42.68	55.20	58.42		58.76	0.004498	2.57	16.63	8.05	0.57
Arnese	14.5*	Max WS	Attuale_agg_2024_np	20.76	55.21	58.99		59.03	0.000358	0.84	24.67	9.77	0.17
Arnese	14.5*	Max WS	Att_tr30_2024	42.05	55.21	58.38		58.64	0.003475	2.25	18.69	9.77	0.52
Arnese	14.25*	Max WS	Attuale_agg_2024_np	15.83	55.22	58.99		59.01	0.000173	0.58	27.41	11.47	0.12
Arnese	14.25*	Max WS	Att_tr30_2024	41.01	55.22	58.35		58.56	0.003091	2.05	20.05	11.47	0.49
Arnese	14	Max WS	Attuale_agg_2024_np	11.66	55.23	58.99		59.00	0.000092	0.39	29.51	13.17	0.08
Arnese	14	Max WS	Att_tr30_2024	39.24	55.23	58.32		58.50	0.003046	1.90	20.68	13.17	0.48
Arnese	13.8888*	Max WS	Attuale_agg_2024_np	9.20	55.18	58.99		58.99	0.000047	0.29	31.42	14.39	0.06
Arnese	13.8888*	Max WS	Att_tr30_2024	37.32	55.18	58.29		58.45	0.002602	1.74	21.41	14.39	0.46
Arnese	13.7777*	Max WS	Attuale_agg_2024_np	7.56	55.13	58.99		58.99	0.000027	0.23	33.17	15.61	0.05
Arnese	13.7777*	Max WS	Att_tr30_2024	35.54	55.13	58.27		58.40	0.002351	1.62	21.96	15.61	0.44
Arnese	13.6666*	Max WS	Attuale_agg_2024_np	6.36	55.07	58.99		58.99	0.000020	0.18	34.74	16.82	0.04
Arnese	13.6666*	Max WS	Att_tr30_2024	33.77	55.07	58.25		58.37	0.002247	1.51	22.32	16.82	0.42
Arnese	13.5555*	Max WS	Attuale_agg_2024_np	5.46	55.02	58.99		58.99	0.000013	0.15	36.14	18.04	0.03
Arnese	13.5555*	Max WS	Att_tr30_2024	31.89	55.02	58.23		58.33	0.002085	1.42	22.47	17.67	0.40
Arnese	13.4444*	Max WS	Attuale_agg_2024_np	4.73	54.97	58.99		58.99	0.000010	0.13	37.36	19.26	0.03
Arnese	13.4444*	Max WS	Att_tr30_2024	29.88	54.97	58.21		58.30	0.001907	1.33	22.46	18.43	0.39
Arnese	13.3333*	Max WS	Attuale_agg_2024_np	4.14	54.92	58.99		58.99	0.000007	0.11	38.41	20.48	0.03
Arnese	13.3333*	Max WS	Att_tr30_2024	27.75	54.92	58.20		58.27	0.001790	1.25	22.26	19.13	0.37
Arnese	13.2222*	Max WS	Attuale_agg_2024_np	3.66	54.86	58.99		58.99	0.000006	0.09	39.29	21.69	0.02
Arnese	13.2222*	Max WS	Att_tr30_2024	25.48	54.86	58.18		58.25	0.001719	1.16	21.89	19.74	0.35

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	13.1111*	Max WS	Attuale_agg_2024_np	3.26	54.81	58.99		58.99	0.000005	0.08	39.99	22.91	0.02
Arnese	13.1111*	Max WS	Att_tr30_2024	23.09	54.81	58.16		58.22	0.001606	1.08	21.36	20.26	0.34
Arnese	13	Max WS	Attuale_agg_2024_np	2.98	54.76	58.99		58.99	0.000004	0.07	40.53	24.13	0.02
Arnese	13	Max WS	Att_tr30_2024	20.75	54.76	58.15		58.20	0.001510	1.00	20.67	20.68	0.32
Arnese	12.75*	Max WS	Attuale_agg_2024_np	2.77	54.63	58.99		58.99	0.000003	0.06	43.07	23.62	0.02
Arnese	12.75*	Max WS	Att_tr30_2024	18.73	54.63	58.14		58.17	0.000968	0.81	23.09	23.54	0.26
Arnese	12.5*	Max WS	Attuale_agg_2024_np	2.58	54.50	58.99		58.99	0.000002	0.06	45.81	23.12	0.01
Arnese	12.5*	Max WS	Att_tr30_2024	16.41	54.50	58.14		58.16	0.000482	0.63	26.12	23.12	0.19
Arnese	12.25*	Max WS	Attuale_agg_2024_np	2.42	54.37	58.99		58.99	0.000001	0.05	48.75	22.61	0.01
Arnese	12.25*	Max WS	Att_tr30_2024	13.71	54.37	58.13		58.14	0.000225	0.47	29.42	22.61	0.13
Arnese	12	Max WS	Attuale_agg_2024_np	2.25	54.23	58.99		58.99	0.000001	0.04	51.85	22.11	0.01
Arnese	12	Max WS	Att_tr30_2024	11.22	54.23	58.13		58.14	0.000109	0.34	32.92	22.11	0.09
Arnese	11.6666*	Max WS	Attuale_agg_2024_np	2.09	54.21	58.99		58.99	0.000001	0.03	63.03	27.67	0.01
Arnese	11.6666*	Max WS	Att_tr30_2024	9.22	54.21	58.13		58.13	0.000050	0.23	39.33	27.67	0.06
Arnese	11.3333*	Max WS	Attuale_agg_2024_np	1.94	54.18	58.99		58.99	0.000000	0.03	73.43	33.23	0.01
Arnese	11.3333*	Max WS	Att_tr30_2024	7.74	54.18	58.13		58.13	0.000028	0.17	44.95	33.23	0.05
Arnese	11	Max WS	Attuale_agg_2024_np	1.80	54.15	58.99		58.99	0.000000	0.02	83.03	38.79	0.00
Arnese	11	Max WS	Att_tr30_2024	6.57	54.15	58.13		58.13	0.000017	0.13	49.77	38.79	0.04
Arnese	10.8333*	Max WS	Attuale_agg_2024_np	1.64	54.04	58.99		58.99	0.000000	0.02	82.37	38.04	0.00
Arnese	10.8333*	Max WS	Att_tr30_2024	5.49	54.04	58.13		58.13	0.000012	0.11	49.75	38.04	0.03
Arnese	10.6666*	Max WS	Attuale_agg_2024_np	1.49	53.93	58.99		58.99	0.000000	0.02	81.63	37.30	0.00
Arnese	10.6666*	Max WS	Att_tr30_2024	4.59	53.93	58.13		58.13	0.000008	0.09	49.64	37.30	0.03
Arnese	10.5*	Max WS	Attuale_agg_2024_np	1.35	53.82	58.99		58.99	0.000000	0.02	80.83	36.55	0.00
Arnese	10.5*	Max WS	Att_tr30_2024	3.92	53.82	58.13		58.13	0.000006	0.08	49.48	36.55	0.02
Arnese	10.3333*	Max WS	Attuale_agg_2024_np	1.46	53.71	58.99		58.99	0.000000	0.02	79.97	35.80	0.00
Arnese	10.3333*	Max WS	Att_tr30_2024	3.40	53.71	58.13		58.13	0.000004	0.07	49.25	35.80	0.02

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	10.1666*	Max WS	Attuale_agg_2024_np	1.61	53.59	58.99		58.99	0.000000	0.02	79.05	35.05	0.00
Arnese	10.1666*	Max WS	Att_tr30_2024	3.06	53.59	58.13		58.13	0.000004	0.06	48.96	35.05	0.02
Arnese	10	Max WS	Attuale_agg_2024_np	1.77	53.48	58.99		58.99	0.000000	0.02	78.03	34.31	0.00
Arnese	10	Max WS	Att_tr30_2024	2.86	53.48	58.13		58.13	0.000003	0.06	48.60	34.31	0.02
Arnese	9.875*	Max WS	Attuale_agg_2024_np	1.98	53.55	58.99		58.99	0.000000	0.02	80.60	34.81	0.01
Arnese	9.875*	Max WS	Att_tr30_2024	2.78	53.55	58.13		58.13	0.000003	0.05	50.72	34.81	0.01
Arnese	9.75*	Max WS	Attuale_agg_2024_np	2.33	53.61	58.99		58.99	0.000000	0.03	83.11	35.32	0.01
Arnese	9.75*	Max WS	Att_tr30_2024	2.89	53.61	58.13		58.13	0.000002	0.05	52.80	35.32	0.01
Arnese	9.625*	Max WS	Attuale_agg_2024_np	3.20	53.68	58.99		58.99	0.000001	0.04	85.58	35.82	0.01
Arnese	9.625*	Max WS	Att_tr30_2024	3.24	53.68	58.13		58.13	0.000003	0.06	54.83	35.82	0.02
Arnese	9.5*	Max WS	Attuale_agg_2024_np	4.37	53.75	58.99		58.99	0.000001	0.05	87.97	36.33	0.01
Arnese	9.5*	Max WS	Att_tr30_2024	3.77	53.75	58.13		58.13	0.000003	0.07	56.80	36.33	0.02
Arnese	9.375*	Max WS	Attuale_agg_2024_np	5.71	53.81	58.99		58.99	0.000002	0.06	90.32	36.83	0.01
Arnese	9.375*	Max WS	Att_tr30_2024	4.50	53.81	58.13		58.13	0.000004	0.08	58.71	36.83	0.02
Arnese	9.25*	Max WS	Attuale_agg_2024_np	7.16	53.88	58.99		58.99	0.000003	0.08	92.63	37.34	0.02
Arnese	9.25*	Max WS	Att_tr30_2024	5.29	53.88	58.13		58.13	0.000006	0.09	60.58	37.34	0.02
Arnese	9.125*	Max WS	Attuale_agg_2024_np	8.72	53.94	58.99		58.99	0.000004	0.09	94.86	37.85	0.02
Arnese	9.125*	Max WS	Att_tr30_2024	6.15	53.94	58.13		58.13	0.000007	0.10	62.37	37.85	0.02
Arnese	9	Max WS	Attuale_agg_2024_np	10.43	54.01	58.99		58.99	0.000005	0.11	97.06	38.35	0.02
Arnese	9	Max WS	Att_tr30_2024	7.20	54.01	58.13		58.13	0.000009	0.11	64.13	38.35	0.03
Arnese	8.66666*	Max WS	Attuale_agg_2024_np	12.18	53.95	58.99		58.99	0.000006	0.12	103.90	40.81	0.02
Arnese	8.66666*	Max WS	Att_tr30_2024	8.32	53.95	58.13		58.13	0.000010	0.12	68.87	40.81	0.03
Arnese	8.33333*	Max WS	Attuale_agg_2024_np	14.18	53.89	58.99		58.99	0.000007	0.13	111.68	43.27	0.03
Arnese	8.33333*	Max WS	Att_tr30_2024	9.64	53.89	58.13		58.13	0.000011	0.13	74.54	43.27	0.03
Arnese	8	Max WS	Attuale_agg_2024_np	16.50	53.83	58.99		58.99	0.000007	0.14	120.36	45.73	0.03
Arnese	8	Max WS	Att_tr30_2024	11.22	53.83	58.13		58.13	0.000012	0.14	81.11	45.73	0.03

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	7.5*	Max WS	Attuale_agg_2024_np	19.64	53.82	58.99		58.99	0.000008	0.15	133.62	50.93	0.03
Arnese	7.5*	Max WS	Att_tr30_2024	13.42	53.82	58.13		58.13	0.000014	0.15	89.90	50.93	0.04
Arnese	7	Max WS	Attuale_agg_2024_np	23.42	53.82	58.98		58.99	0.000012	0.17	139.72	56.13	0.03
Arnese	7	Max WS	Att_tr30_2024	16.13	53.82	58.13		58.13	0.000022	0.18	91.54	56.13	0.04
Arnese	6.75*	Max WS	Attuale_agg_2024_np	26.98	53.75	58.98		58.99	0.000015	0.19	141.79	55.78	0.04
Arnese	6.75*	Max WS	Att_tr30_2024	18.76	53.75	58.13		58.13	0.000027	0.20	93.91	55.78	0.05
Arnese	6.5*	Max WS	Attuale_agg_2024_np	31.28	53.69	58.98		58.99	0.000018	0.22	144.18	55.42	0.04
Arnese	6.5*	Max WS	Att_tr30_2024	22.03	53.69	58.13		58.13	0.000033	0.23	96.62	55.42	0.06
Arnese	6.25*	Max WS	Attuale_agg_2024_np	36.56	53.63	58.98		58.99	0.000024	0.25	146.94	55.06	0.05
Arnese	6.25*	Max WS	Att_tr30_2024	26.14	53.63	58.13		58.13	0.000042	0.26	99.68	55.06	0.06
Arnese	6	Max WS	Attuale_agg_2024_np	43.05	53.57	58.98		58.99	0.000031	0.29	150.02	54.71	0.06
Arnese	6	Max WS	Att_tr30_2024	31.32	53.57	58.12		58.13	0.000055	0.30	103.05	54.71	0.07
Arnese	5.6*	Max WS	Attuale_agg_2024_np	48.55	53.42	58.98		58.99	0.000048	0.39	126.00	32.20	0.06
Arnese	5.6*	Max WS	Att_tr30_2024	35.79	53.42	58.12		58.13	0.000057	0.36	98.35	32.20	0.07
Arnese	5.2	Max WS	Attuale_agg_2024_np	55.06	53.27	58.98	55.22	59.01	0.000186	0.81	83.33	23.96	0.11
Arnese	5.2	Max WS	Att_tr30_2024	41.11	53.27	58.12	54.92	58.15	0.000229	0.79	62.75	23.96	0.12
Arnese	5.15			Bridge									
Arnese	5.1	Max WS	Attuale_agg_2024_np	55.05	53.71	58.49		58.53	0.000279	0.96	66.72	21.49	0.16
Arnese	5.1	Max WS	Att_tr30_2024	41.09	53.71	57.51		57.56	0.000479	1.03	45.80	21.49	0.20
Arnese	4.73333*	Max WS	Attuale_agg_2024_np	55.05	53.43	58.48		58.53	0.000330	1.04	62.09	20.44	0.17
Arnese	4.73333*	Max WS	Att_tr30_2024	41.09	53.43	57.51		57.57	0.000589	1.13	42.18	20.44	0.22
Arnese	4.36666*	Max WS	Attuale_agg_2024_np	55.05	53.16	58.48		58.53	0.000404	1.12	57.71	19.38	0.19
Arnese	4.36666*	Max WS	Att_tr30_2024	41.09	53.16	57.50		57.57	0.000750	1.23	38.80	19.38	0.24
Arnese	4	Max WS	Attuale_agg_2024_np	55.05	52.89	58.47		58.53	0.000514	1.20	53.55	18.32	0.20
Arnese	4	Max WS	Att_tr30_2024	41.09	52.89	57.50		57.57	0.000987	1.34	35.64	18.30	0.27

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	3.8*	Max WS	Attuale_agg_2024_np	55.05	53.01	58.47		58.52	0.000436	1.14	60.35	21.89	0.19
Arnese	3.8*	Max WS	Att_tr30_2024	41.09	53.01	57.49		57.56	0.000864	1.30	38.88	21.89	0.25
Arnese	3.6*	Max WS	Attuale_agg_2024_np	55.05	53.13	58.46		58.51	0.000384	1.09	64.80	25.47	0.18
Arnese	3.6*	Max WS	Att_tr30_2024	41.09	53.13	57.48		57.55	0.000785	1.29	39.76	25.47	0.24
Arnese	3.4*	Max WS	Attuale_agg_2024_np	55.05	53.26	58.46		58.51	0.000362	1.07	66.89	29.04	0.17
Arnese	3.4*	Max WS	Att_tr30_2024	41.09	53.26	57.47		57.55	0.000750	1.29	38.27	29.04	0.23
Arnese	3.2	Max WS	Attuale_agg_2024_np	55.05	53.38	58.45	55.40	58.50	0.000364	1.08	66.59	32.62	0.16
Arnese	3.2	Max WS	Att_tr30_2024	41.09	53.38	57.47	55.09	57.55	0.000717	1.29	32.54	15.80	0.22
Arnese	3.15			Bridge									
Arnese	3.1	Max WS	Attuale_agg_2024_np	55.04	53.21	56.36		56.67	0.004076	2.46	22.36	8.55	0.49
Arnese	3.1	Max WS	Att_tr30_2024	41.06	53.21	56.23		56.42	0.002603	1.93	21.31	8.52	0.39
Arnese	2.55*	Max WS	Attuale_agg_2024_np	55.04	53.09	56.32		56.78	0.006580	3.01	18.47	10.06	0.67
Arnese	2.55*	Max WS	Att_tr30_2024	41.06	53.09	56.21		56.50	0.004295	2.37	17.38	9.61	0.54
Arnese	2	Max WS	Attuale_agg_2024_np	55.03	52.97	56.29		56.55	0.003654	2.40	27.84	24.84	0.54
Arnese	2	Max WS	Att_tr30_2024	41.06	52.97	56.19		56.36	0.002503	1.94	25.38	24.69	0.45
Arnese	1.5*	Max WS	Attuale_agg_2024_np	55.02	52.97	56.25		56.53	0.003924	2.46	26.99	24.79	0.56
Arnese	1.5*	Max WS	Att_tr30_2024	41.03	52.97	56.17		56.35	0.002627	1.97	24.81	24.66	0.46
Arnese	1	Max WS	Attuale_agg_2024_np	55.01	52.97	56.22		56.52	0.004241	2.54	26.06	24.73	0.58
Arnese	1	Max WS	Att_tr30_2024	41.02	52.97	56.14		56.33	0.002769	2.01	24.20	24.62	0.47
Arnese	.505*	Max WS	Attuale_agg_2024_np	55.01	52.89	56.20		56.31	0.001882	1.72	39.24	24.92	0.39
Arnese	.505*	Max WS	Att_tr30_2024	41.00	52.89	56.13		56.20	0.001188	1.34	37.55	24.80	0.30
Arnese	0.01	Max WS	Attuale_agg_2024_np	54.99	52.81	56.19		56.24	0.000851	1.18	53.94	32.06	0.26
Arnese	0.01	Max WS	Att_tr30_2024	41.00	52.81	56.12		56.15	0.000523	0.91	51.97	28.68	0.20

Verifiche Idrauliche

Rio Grignana

Stato Attuale

**Rio Grignana - Verifiche idrauliche moto vario stato attuale**  
**Tr=200 e Tr=30 anni – Tp Critico**

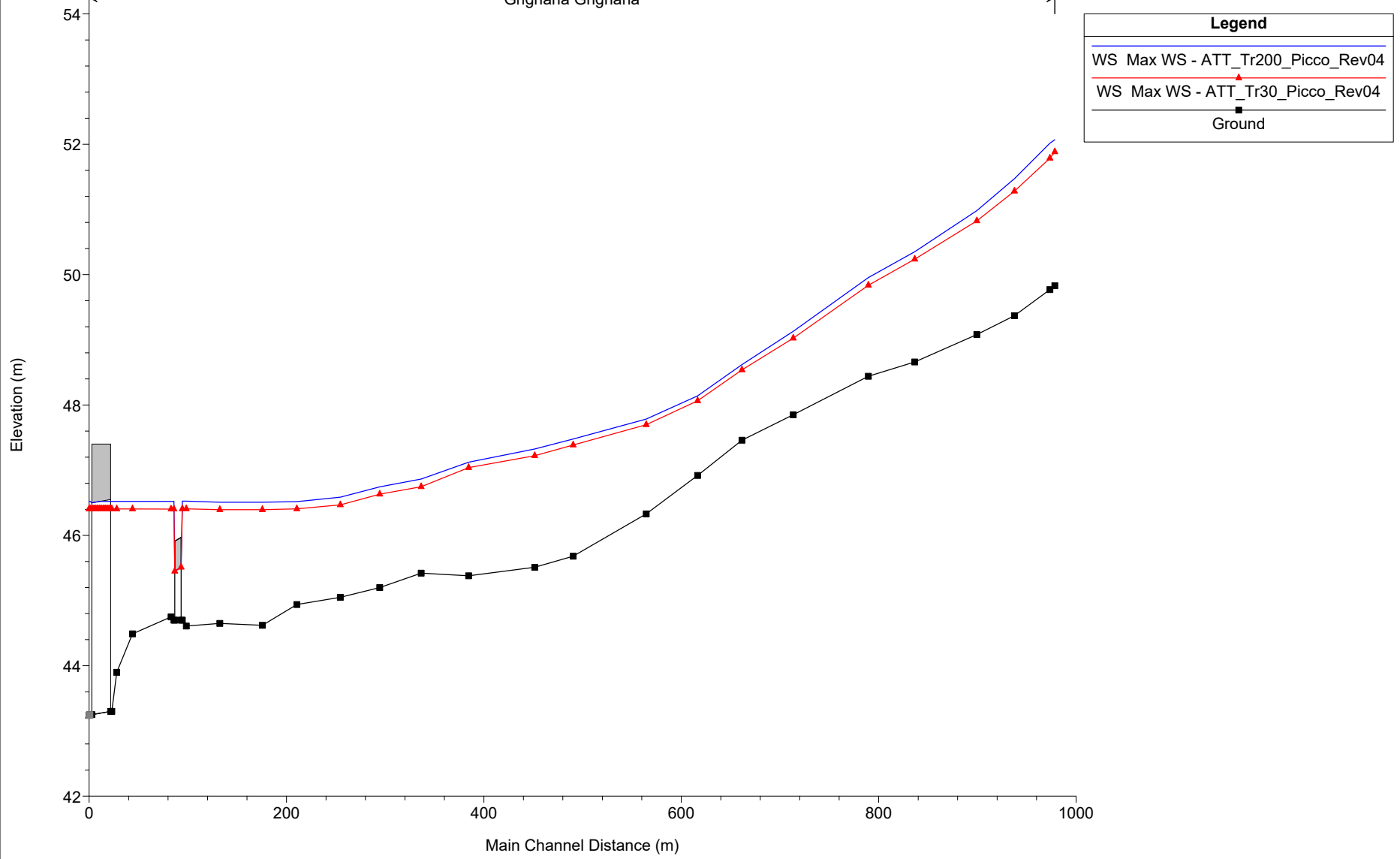


GRI\_ESE\_rev\_2020

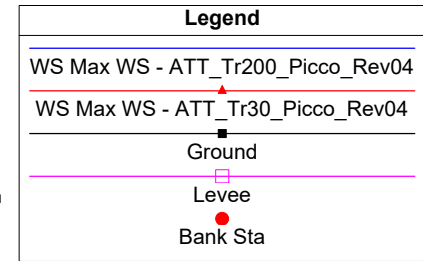
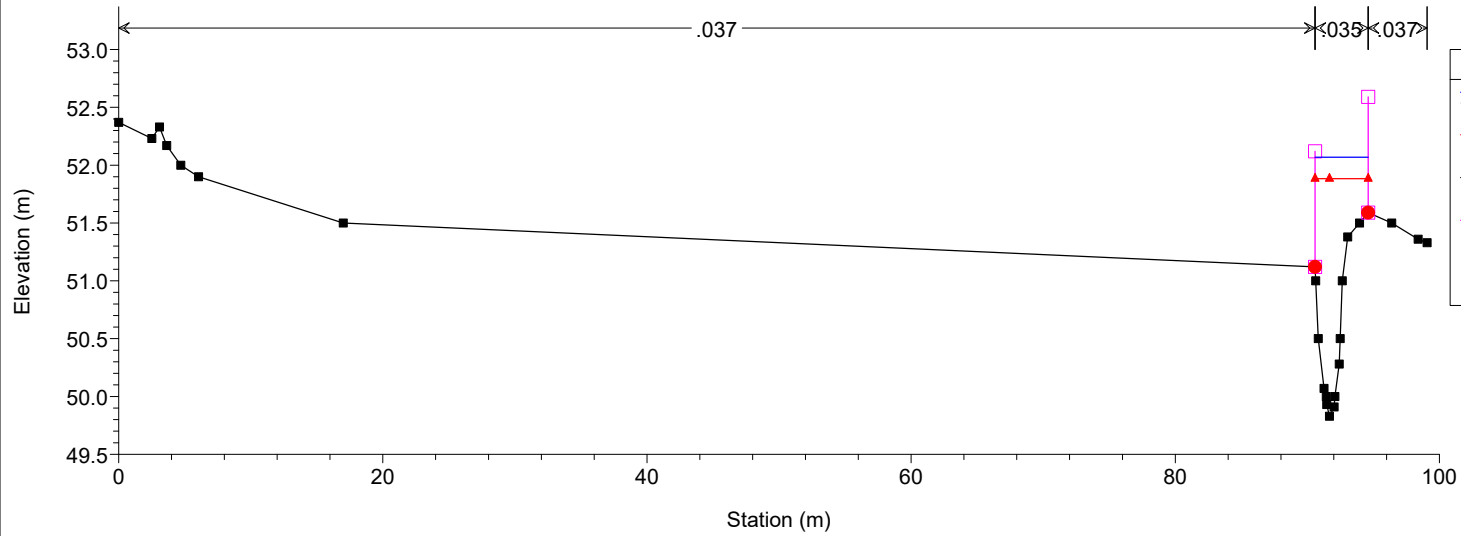
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2) ATT\_Tr30\_Picco\_Rev04 8/27/2021

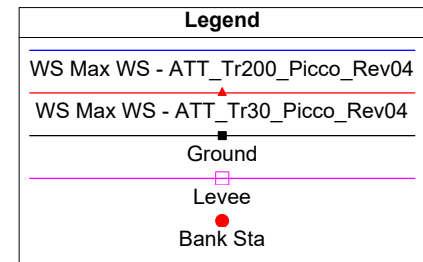
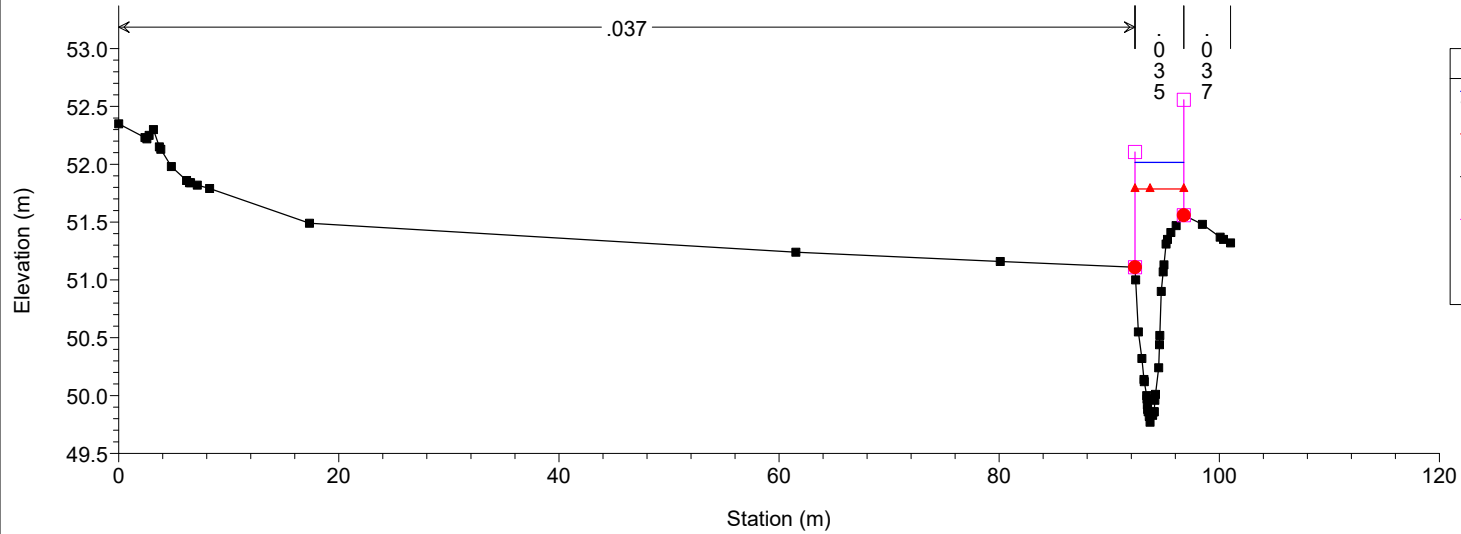
Grignana Grignana



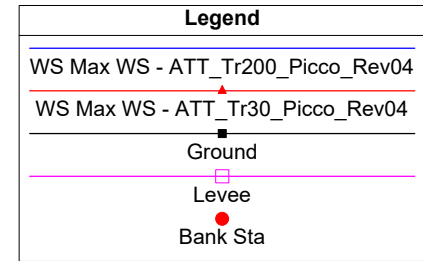
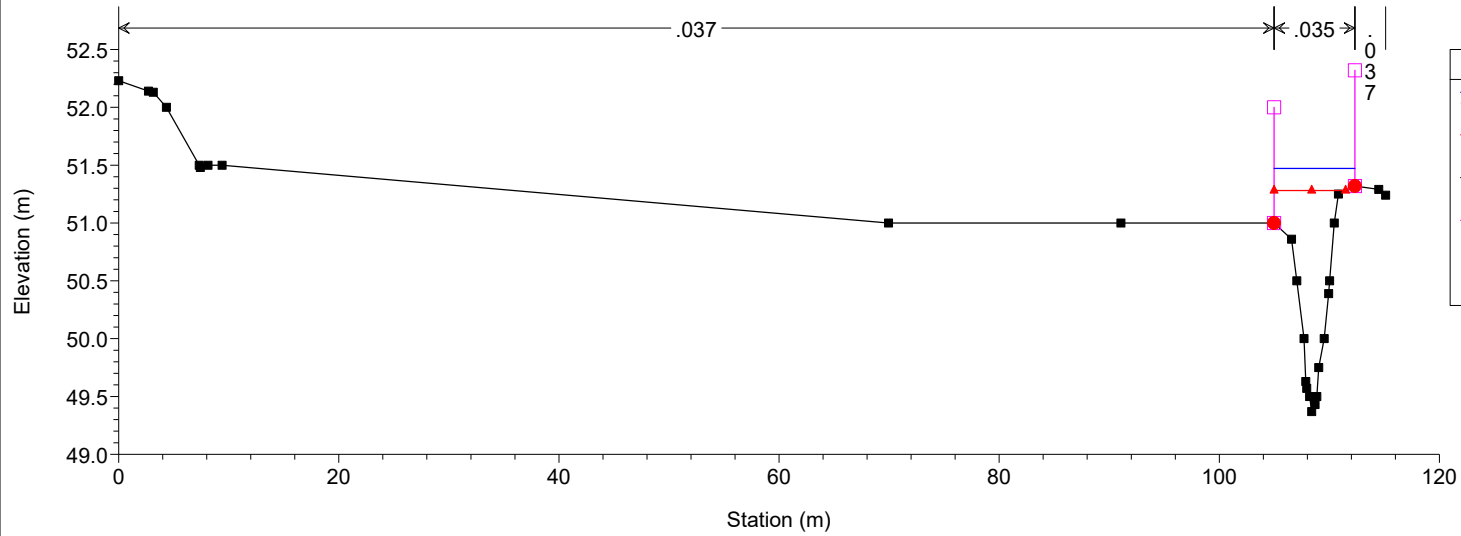
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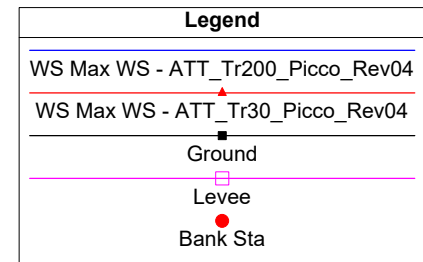
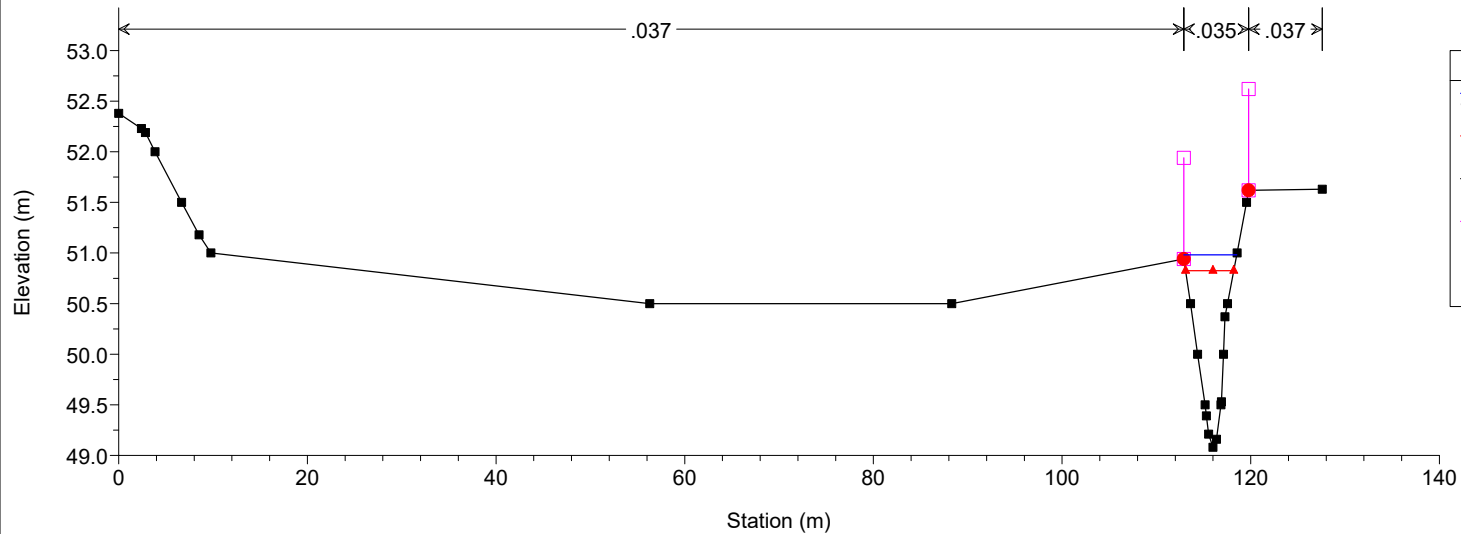
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RS = 26.8 ausiliaria

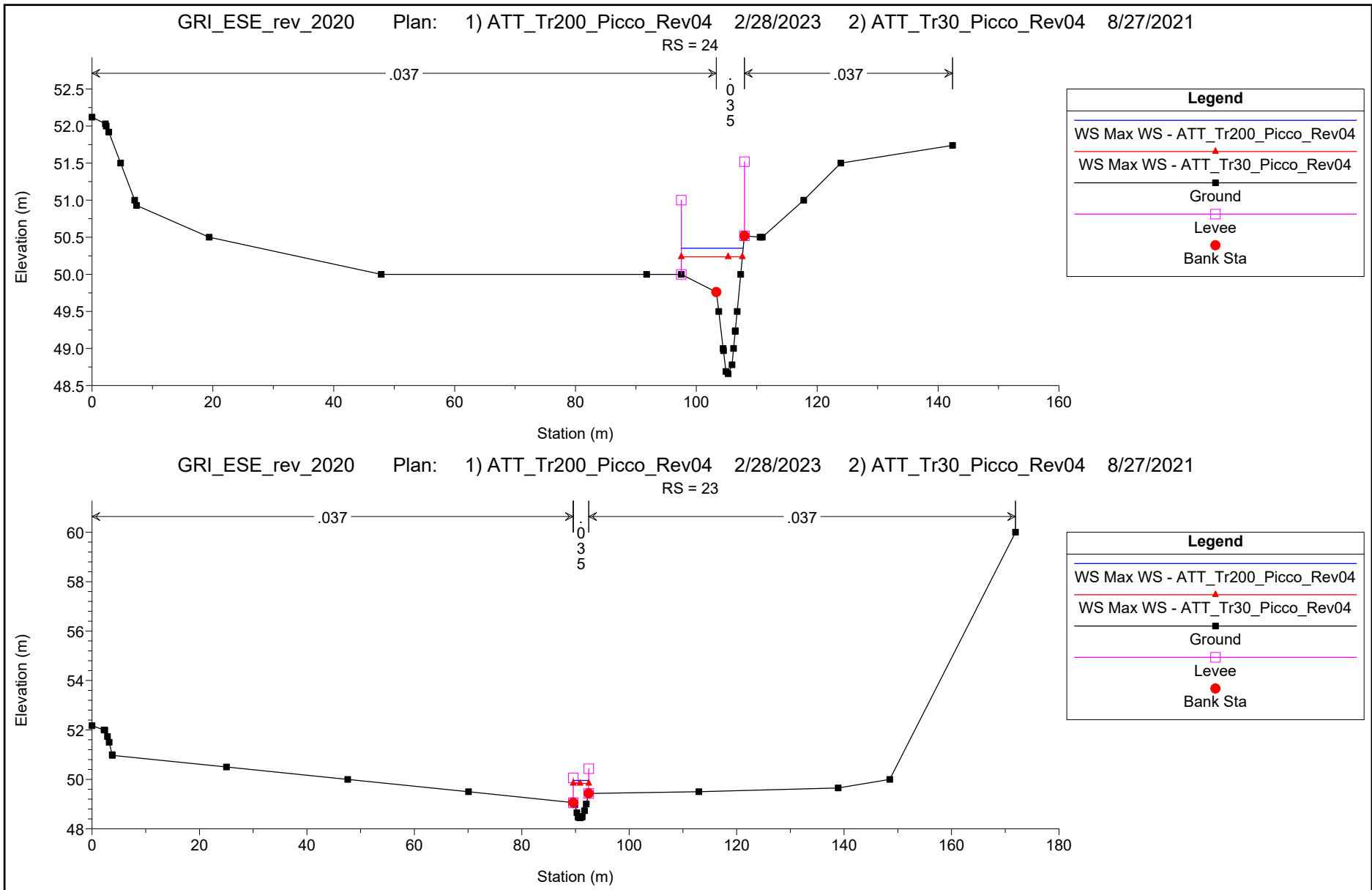


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RS = 26

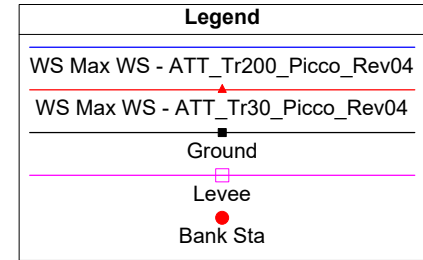
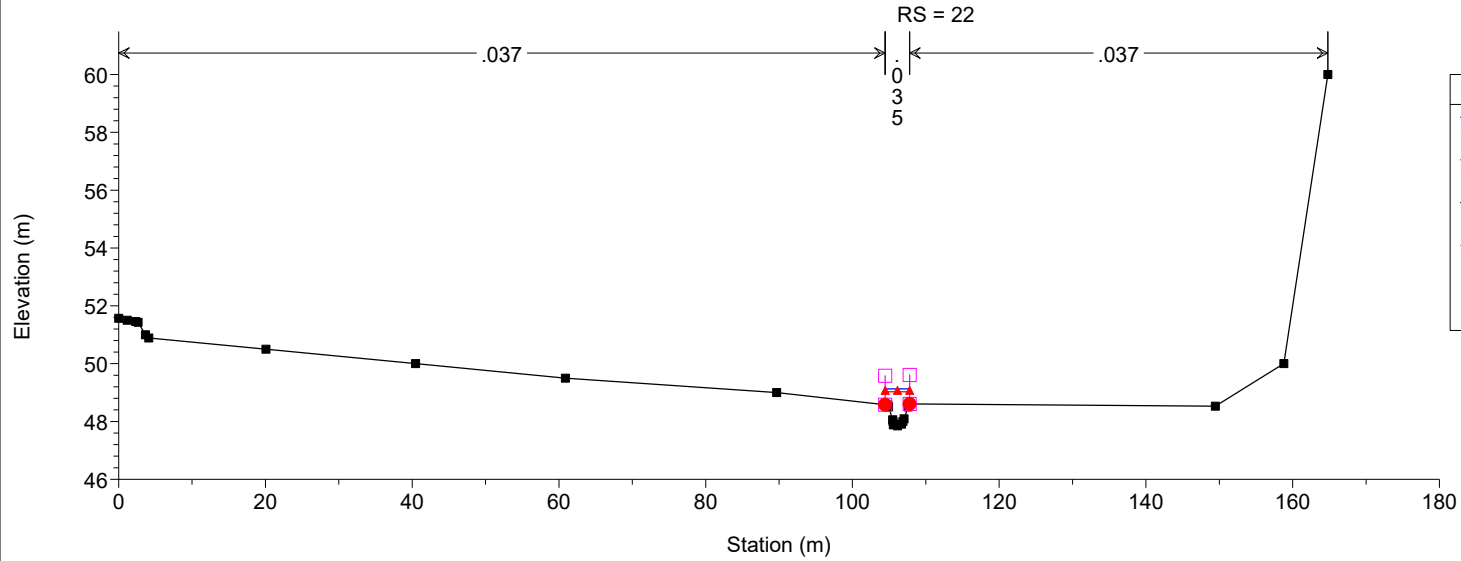


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RS = 25

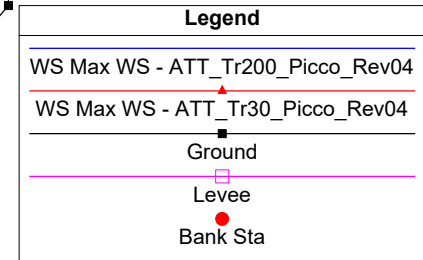
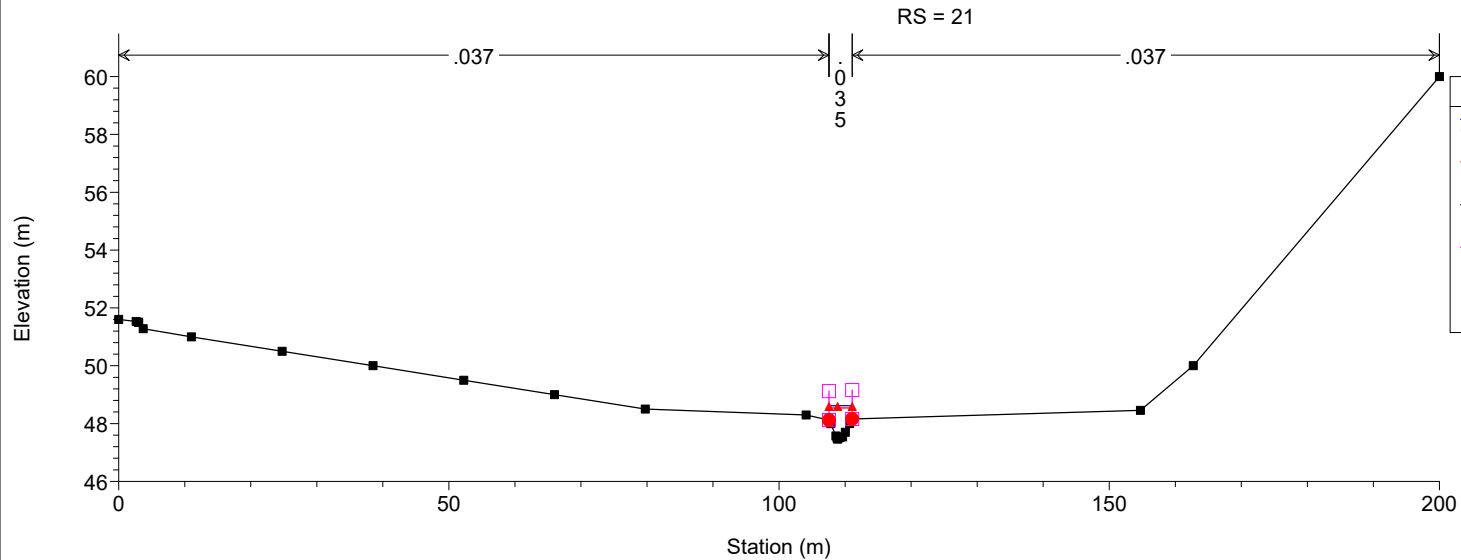




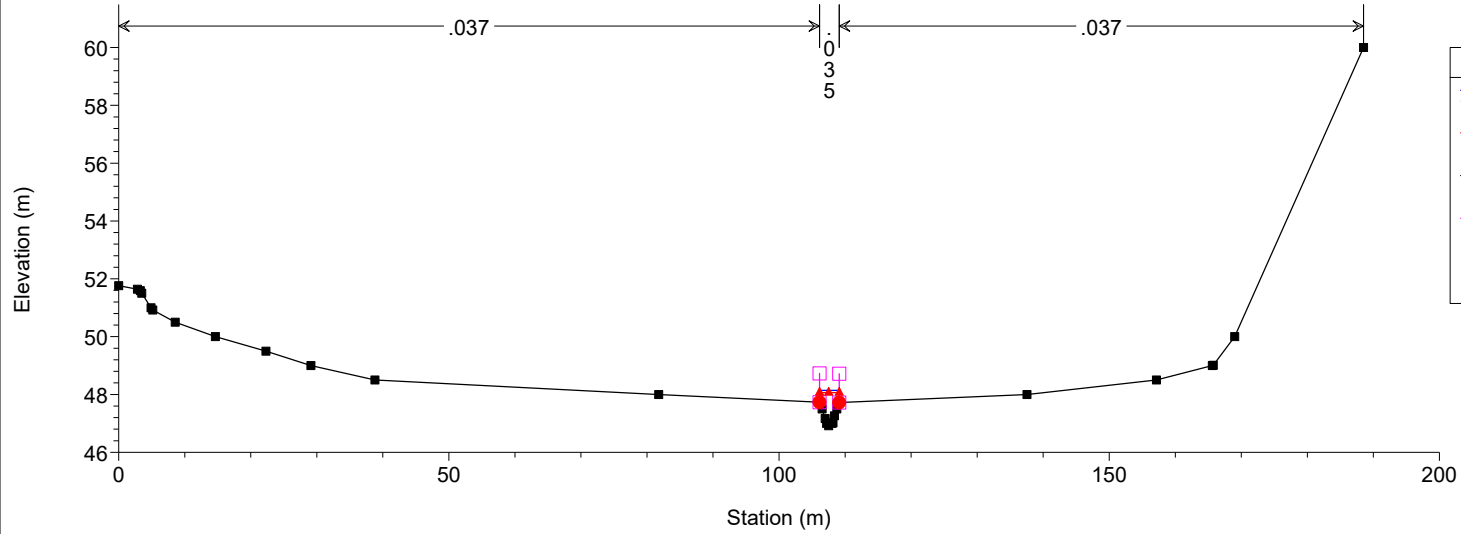
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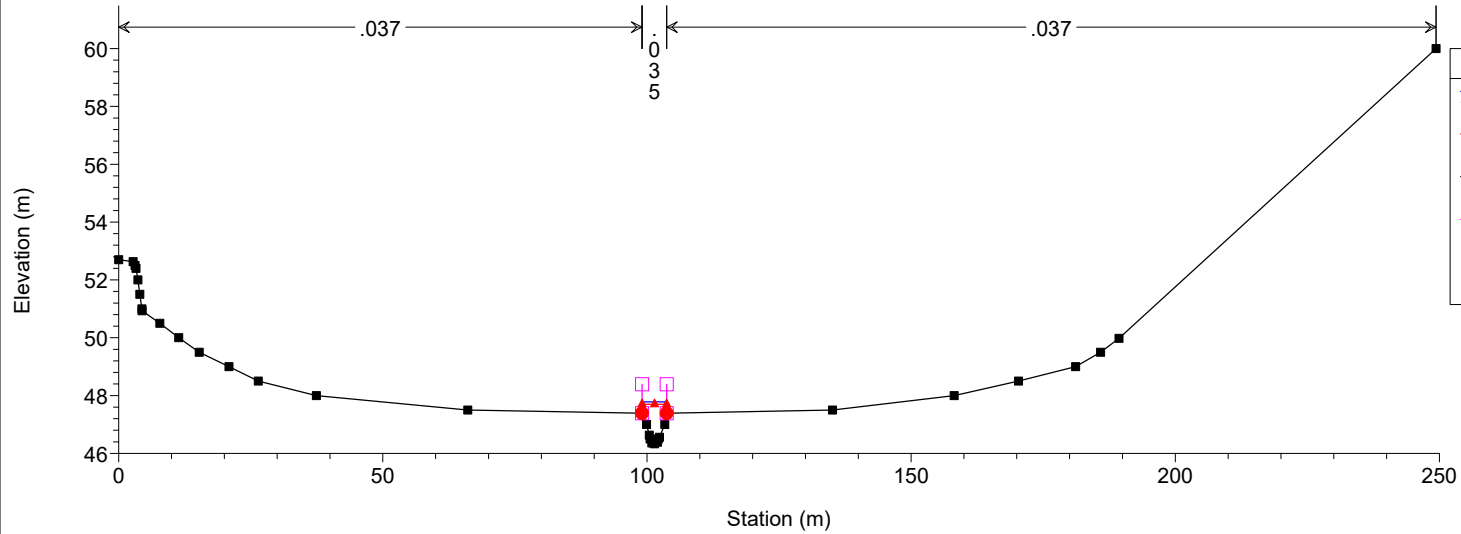
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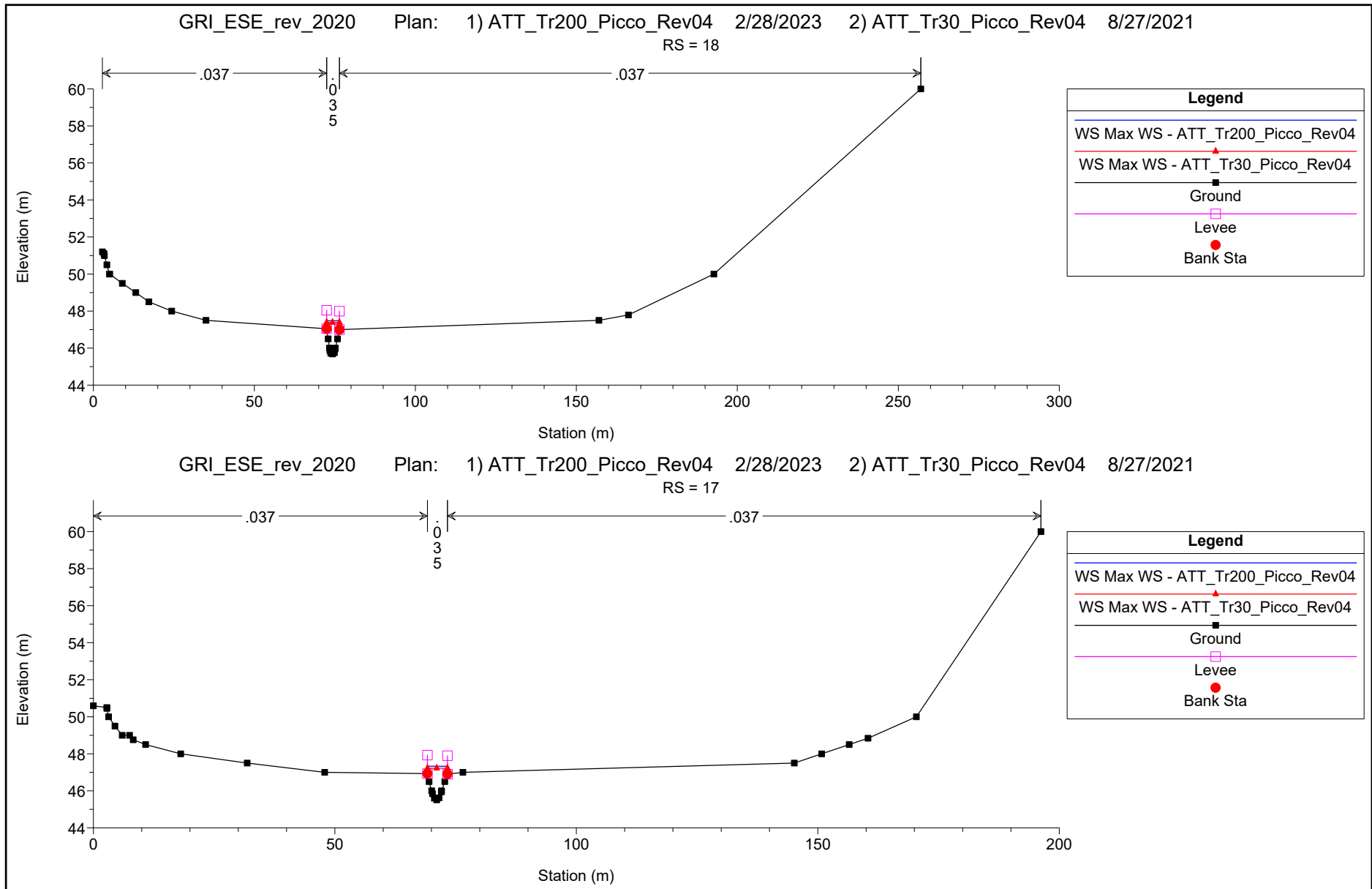


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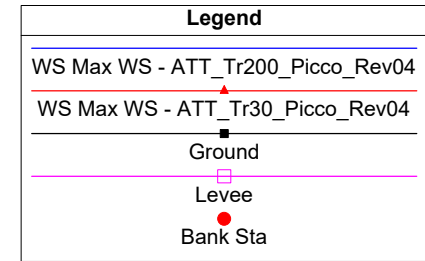
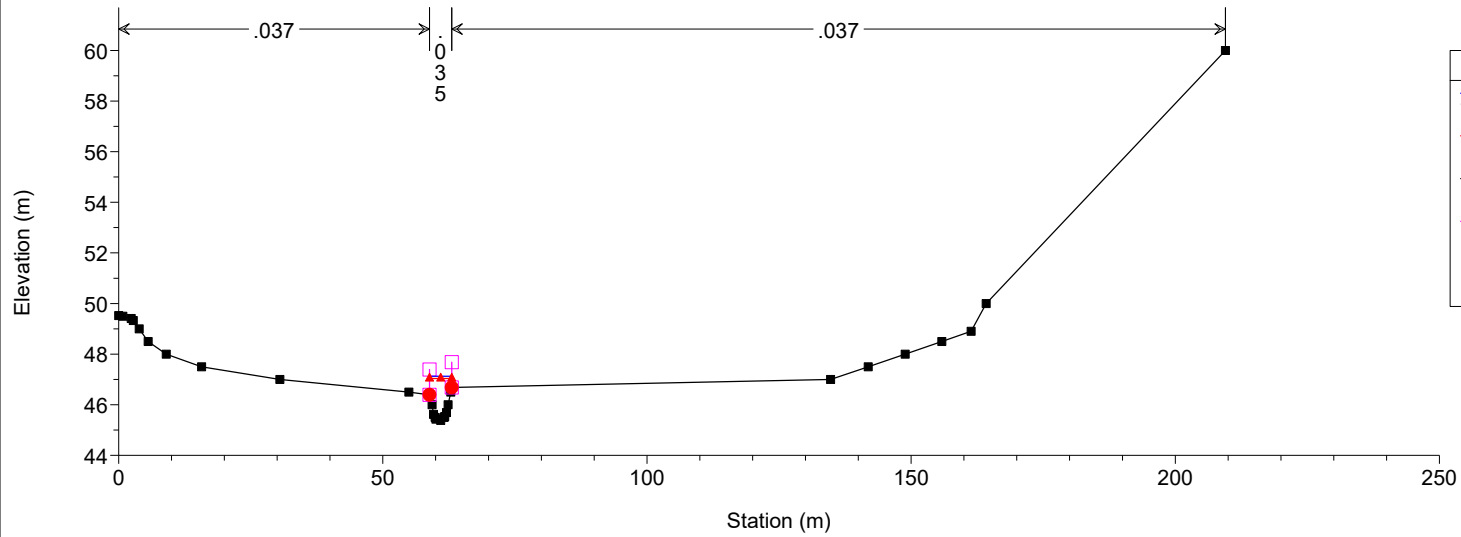
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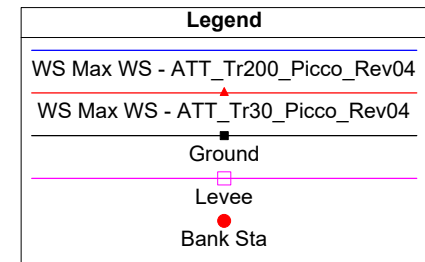
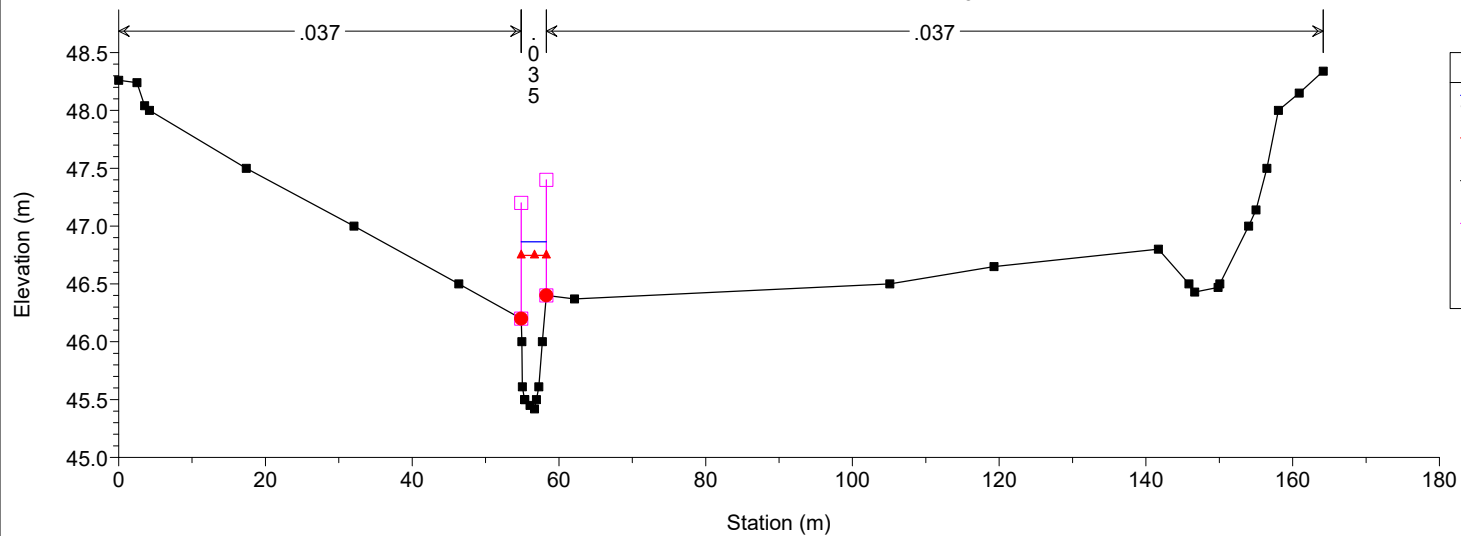
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RS = 16



GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021

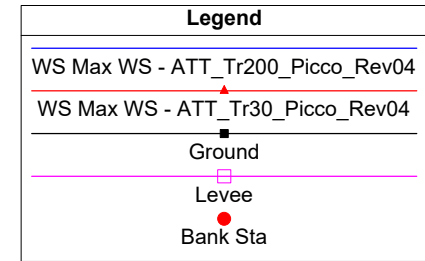
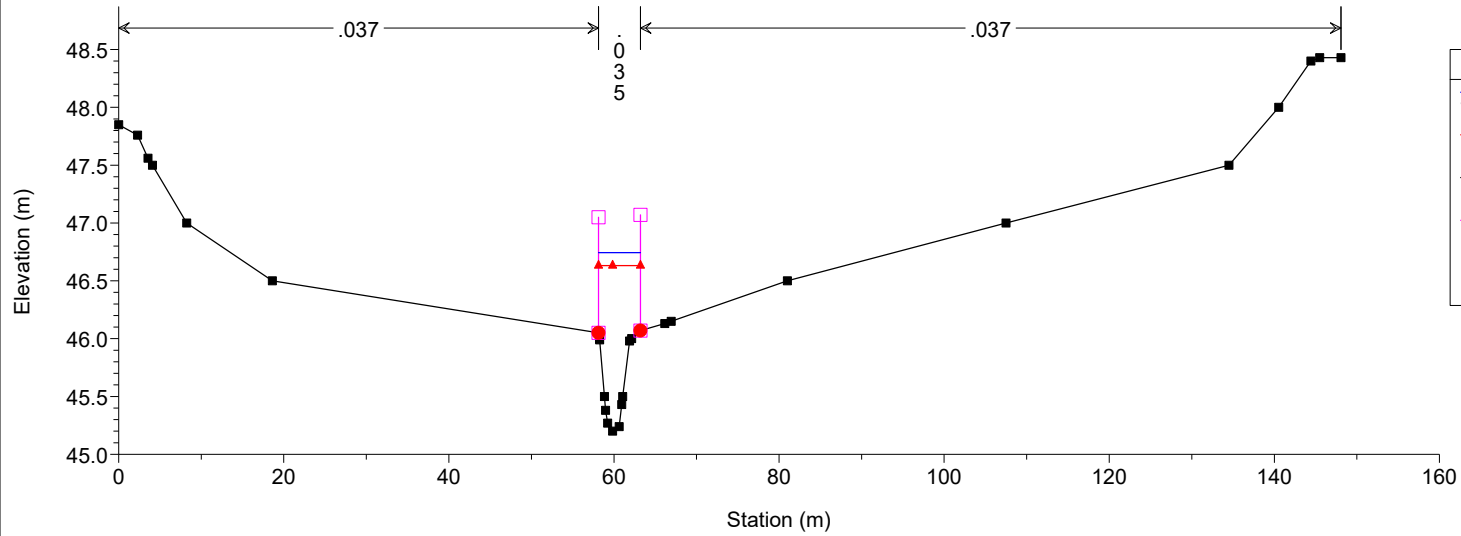
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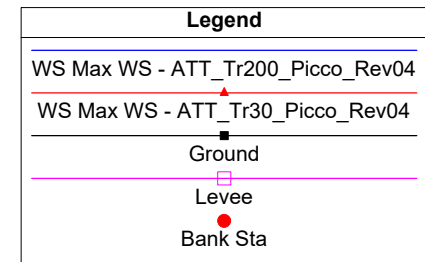
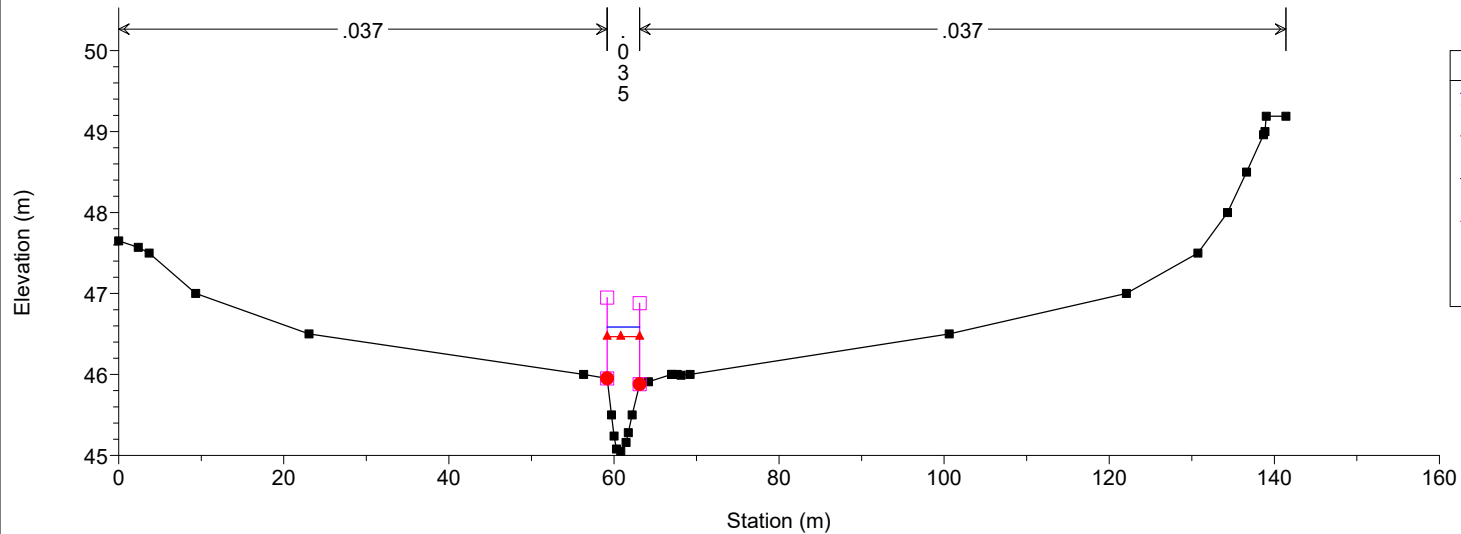
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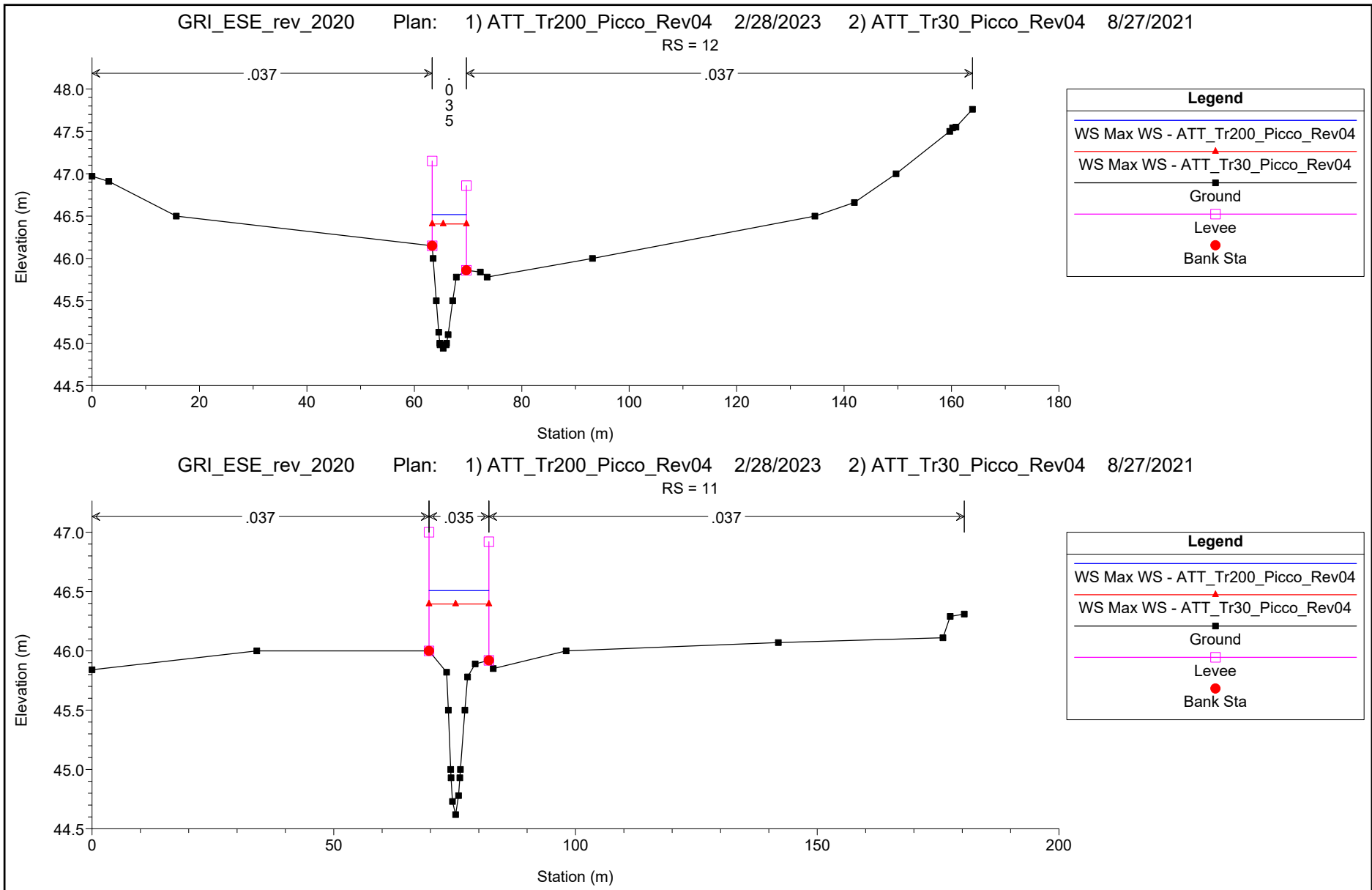
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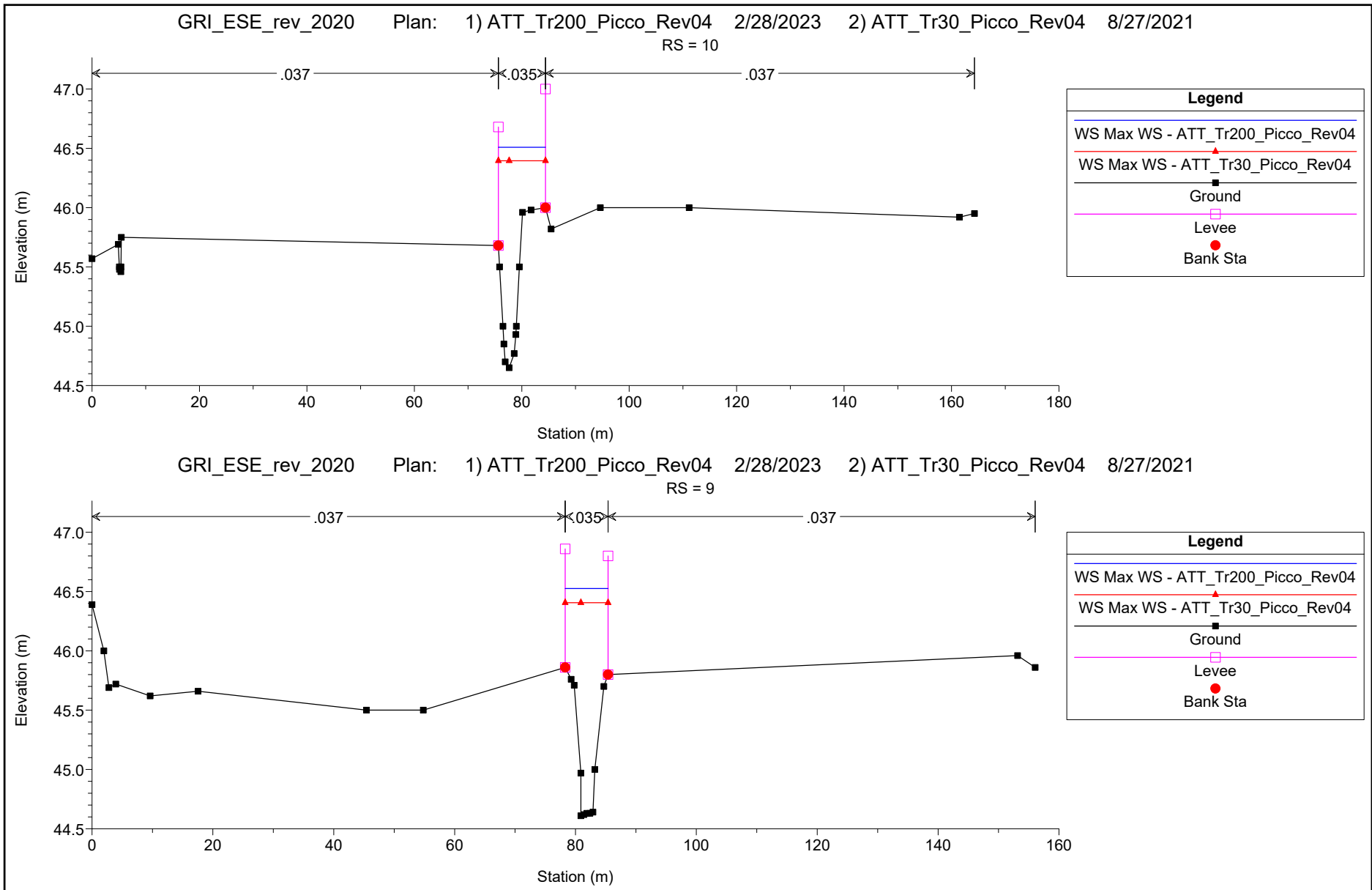


GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021

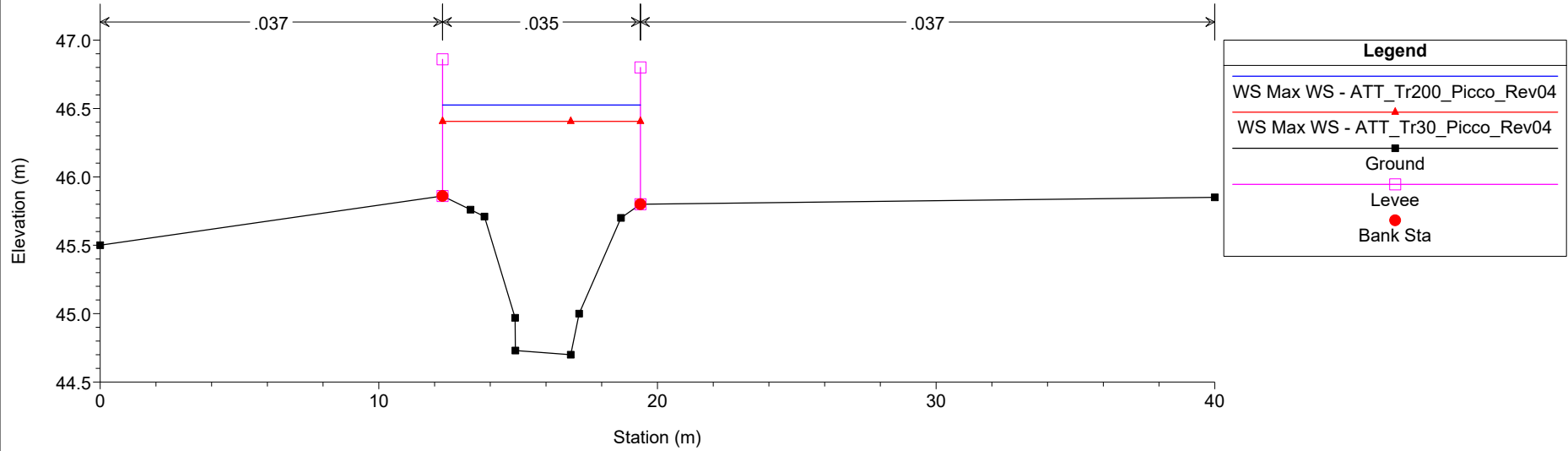
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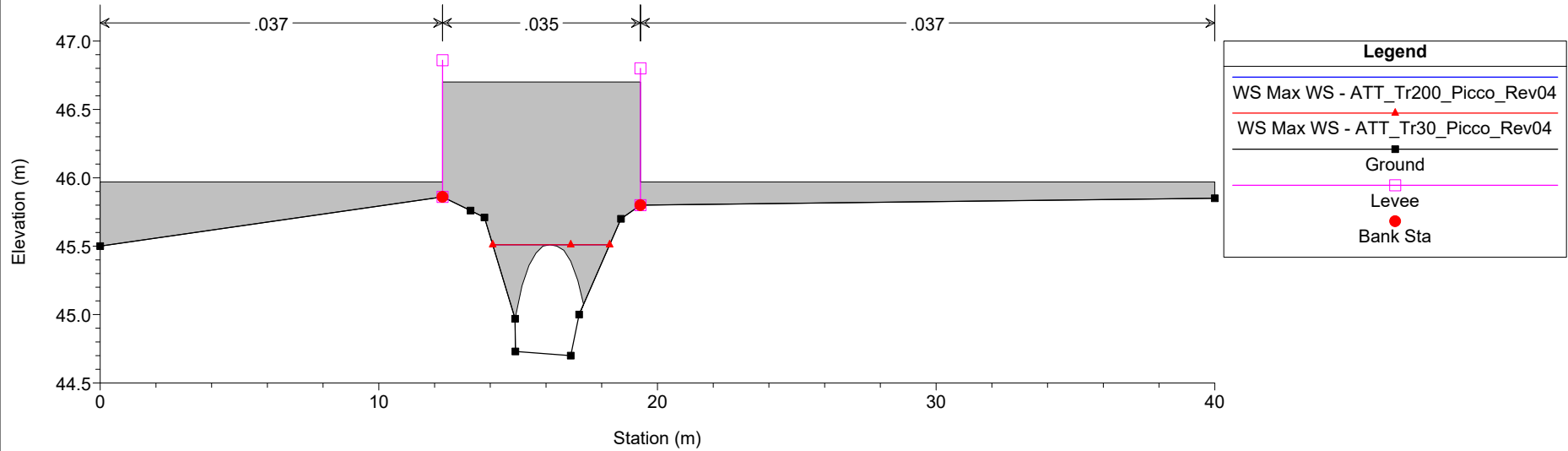




GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021  
 RS = 8 PGR0004\_c

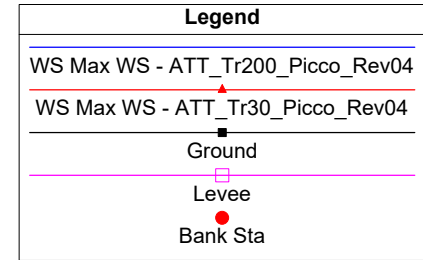
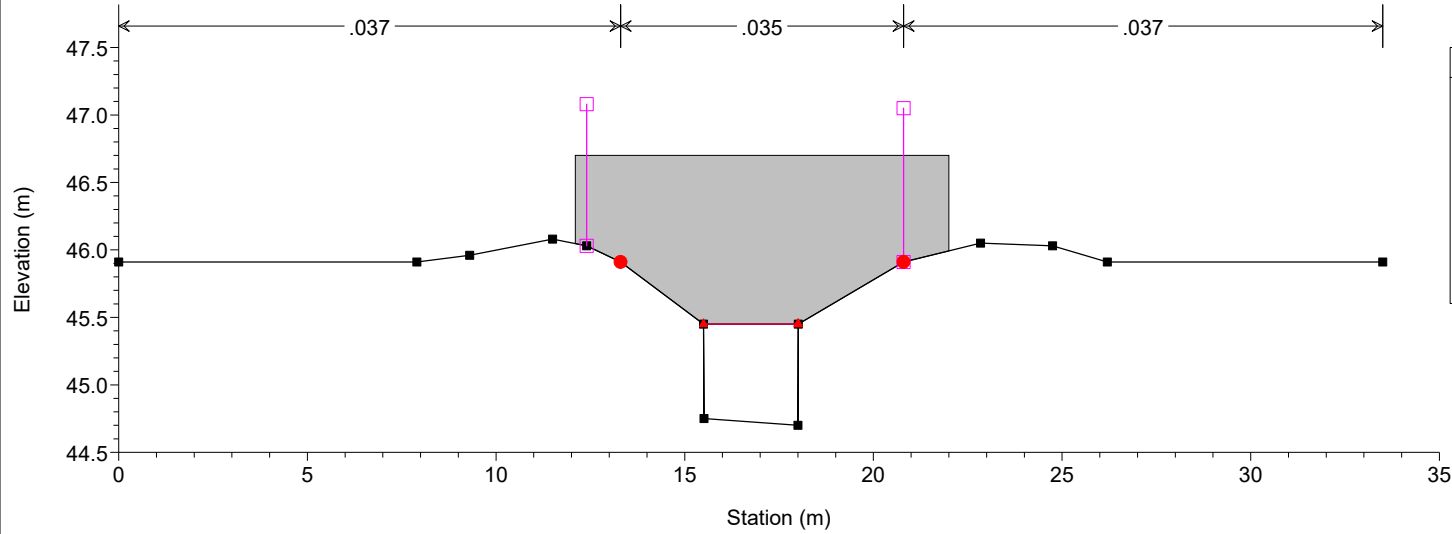


GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021  
 RS = 7.5 BR Ponte Sanminiatese esistente



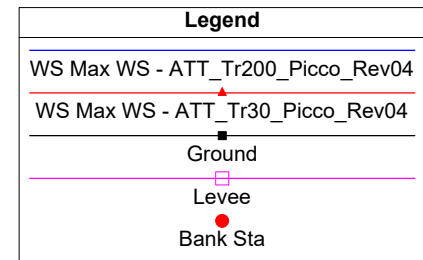
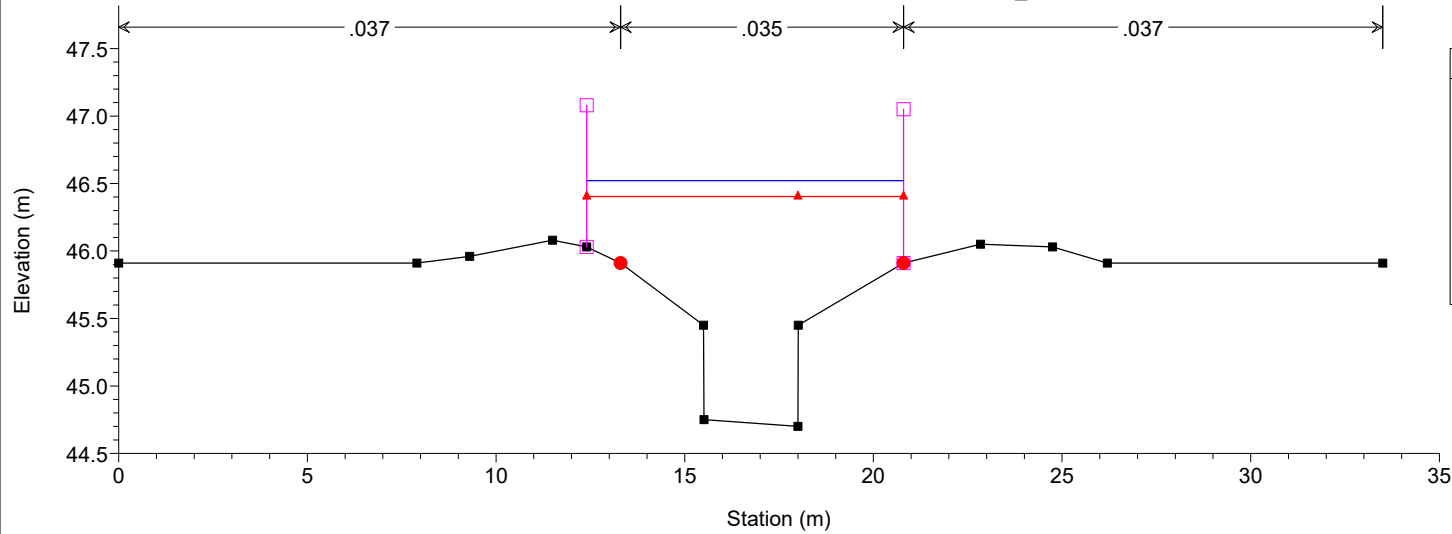
GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021

RS = 7.5 BR Ponte Sanminiatese esistente

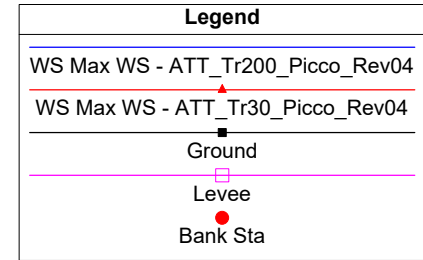
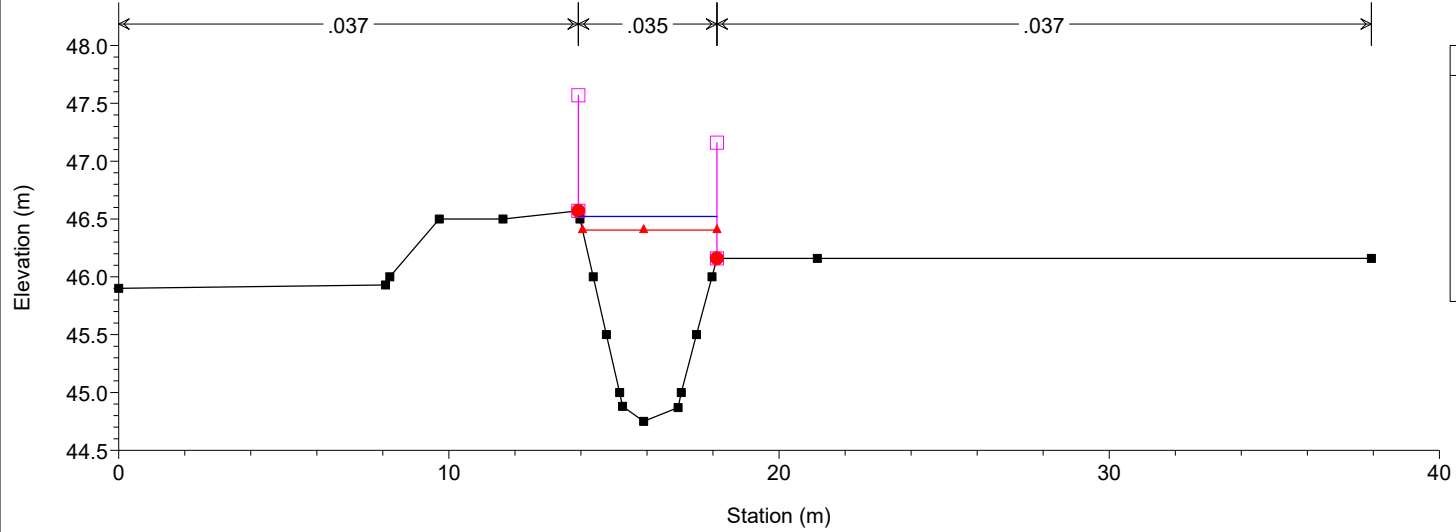


GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021

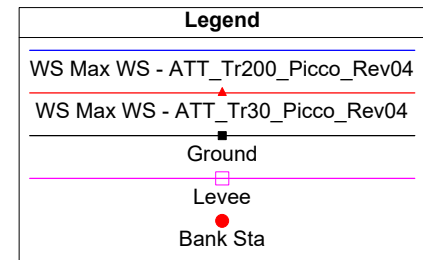
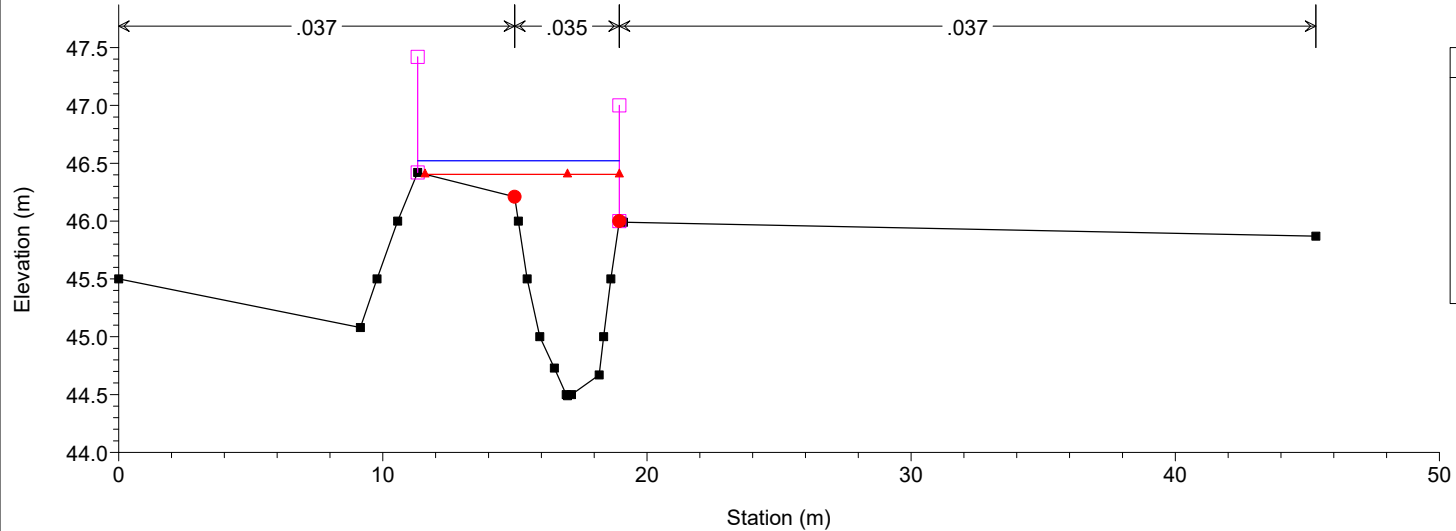
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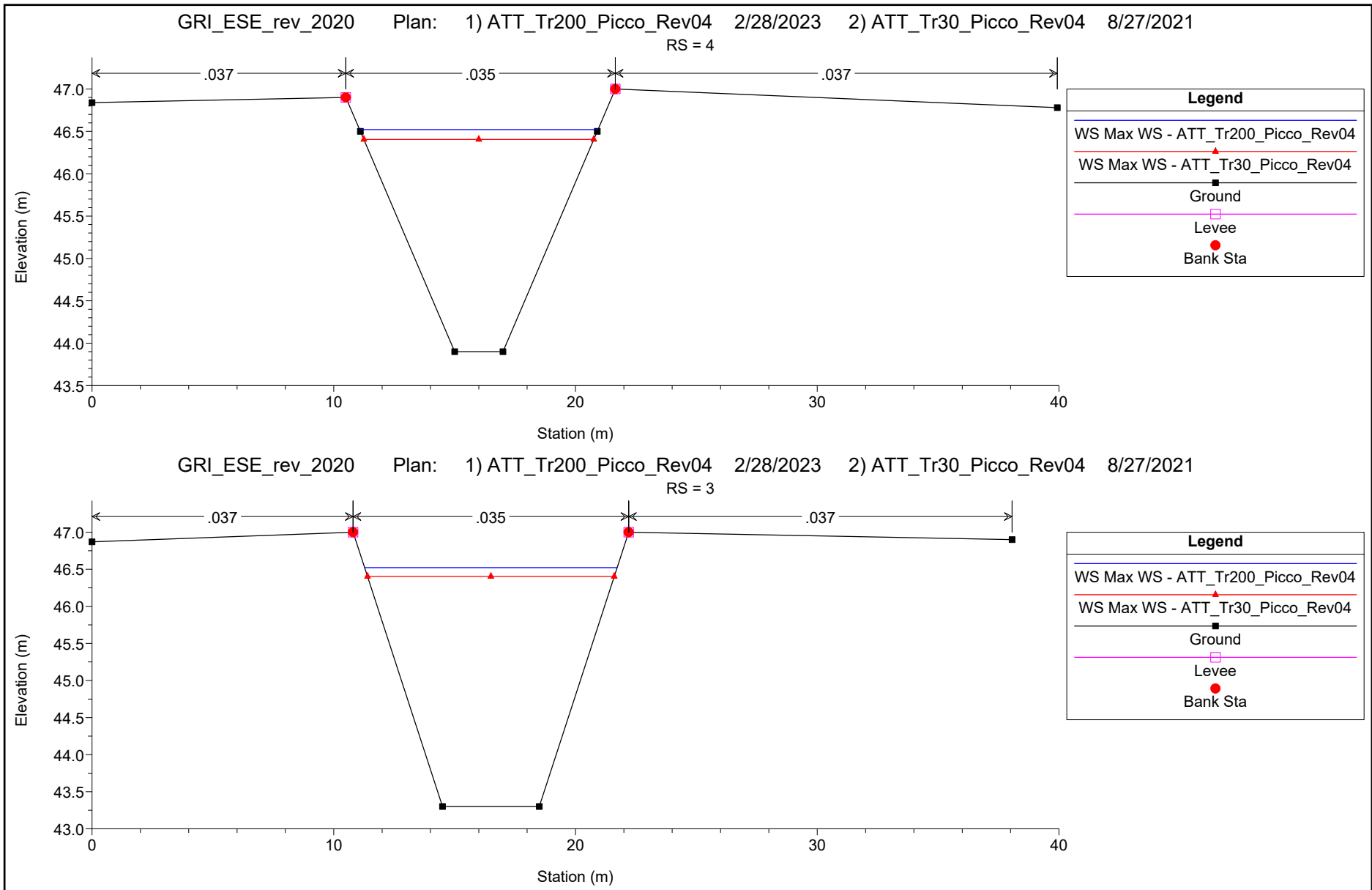


GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 6



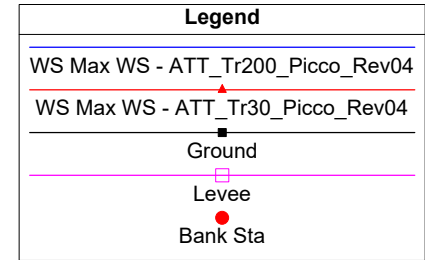
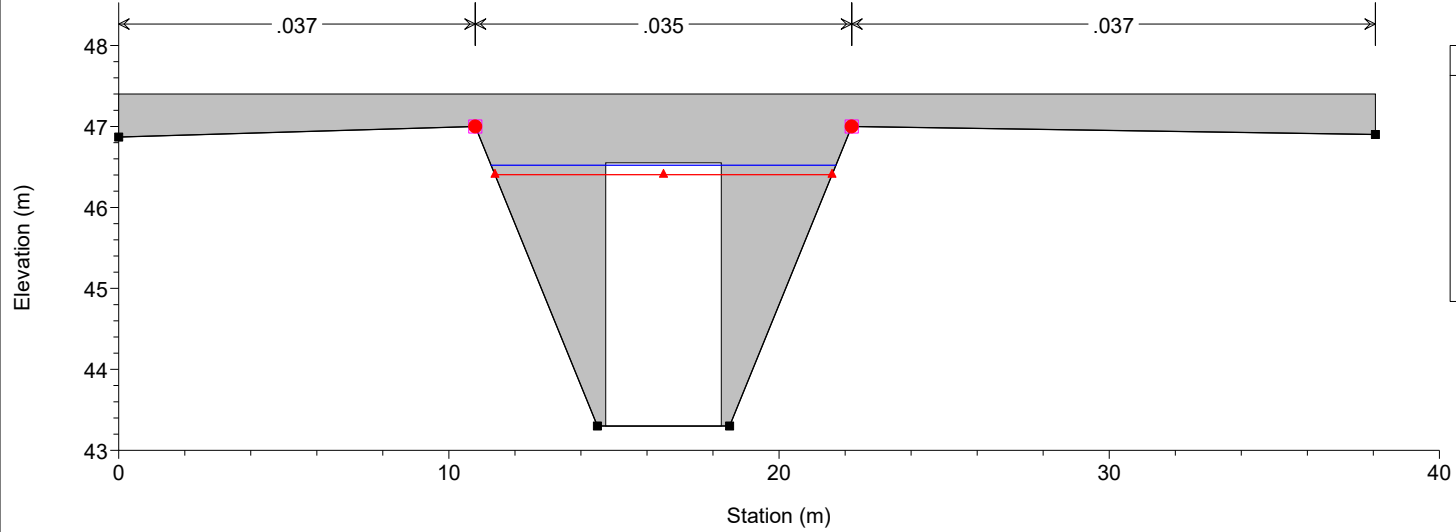
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RS = 5





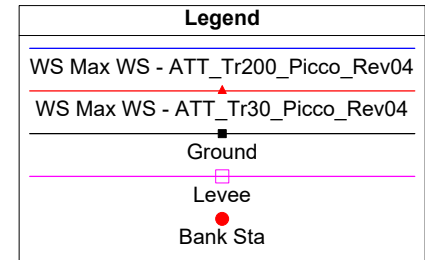
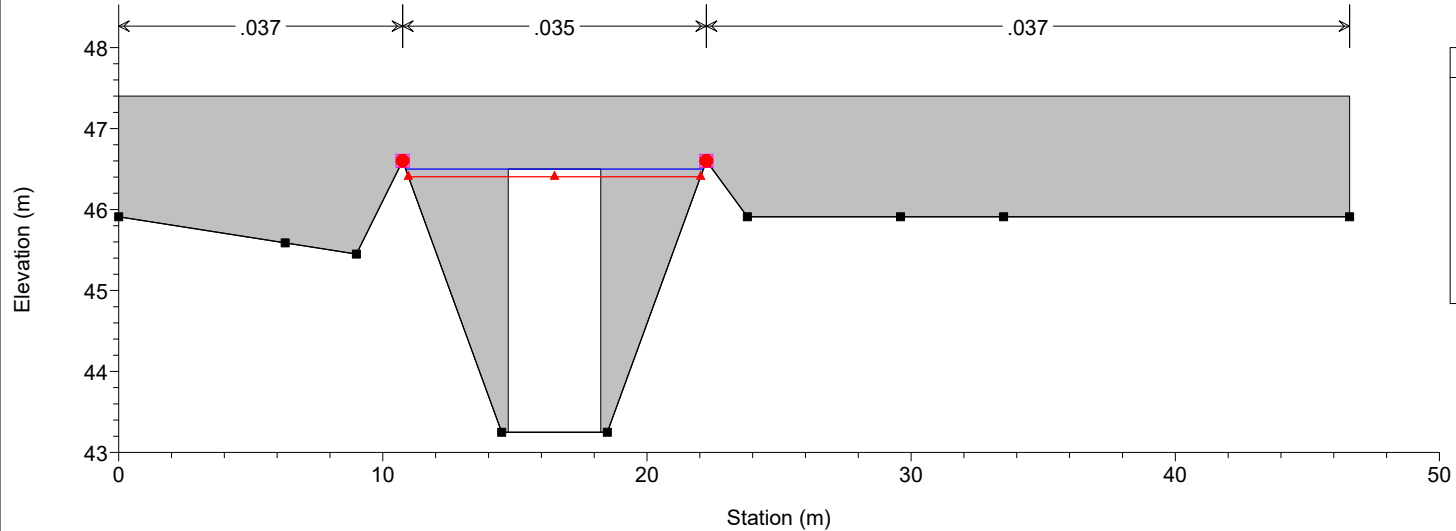
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RS = 2.5 Culv Ponte sr429



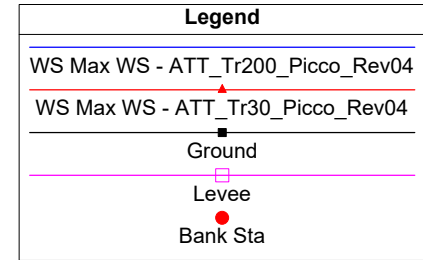
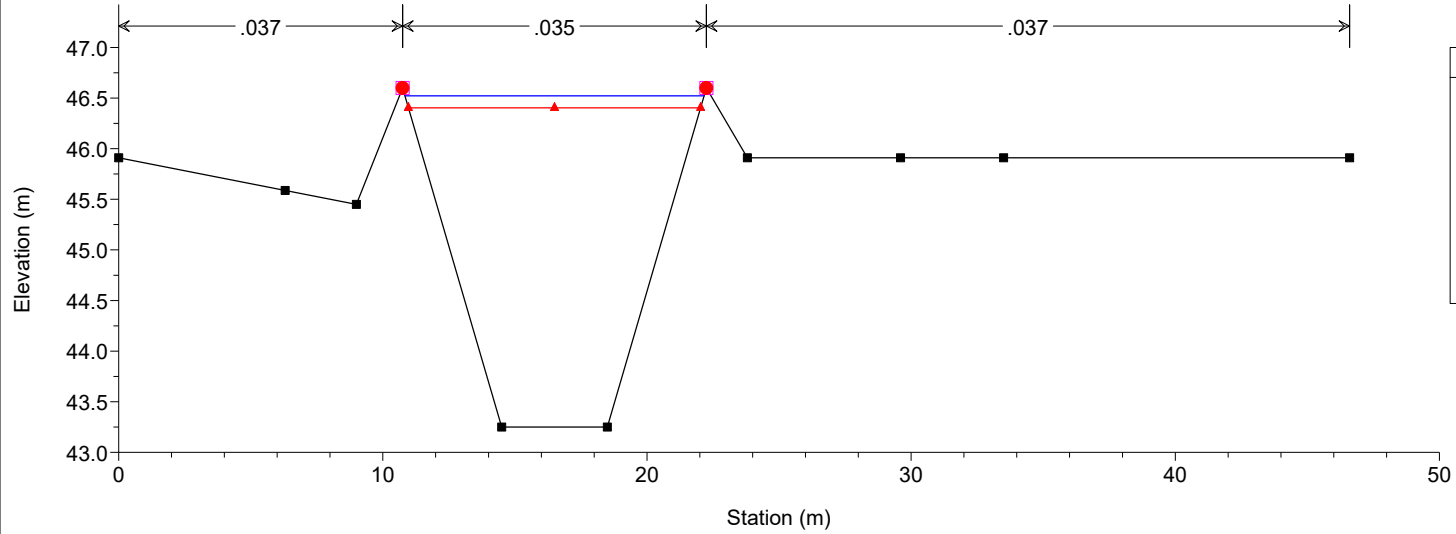
GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021

RS = 2.5 Culv Ponte sr429

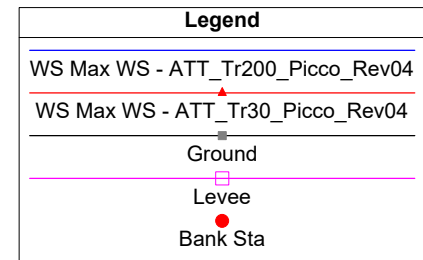
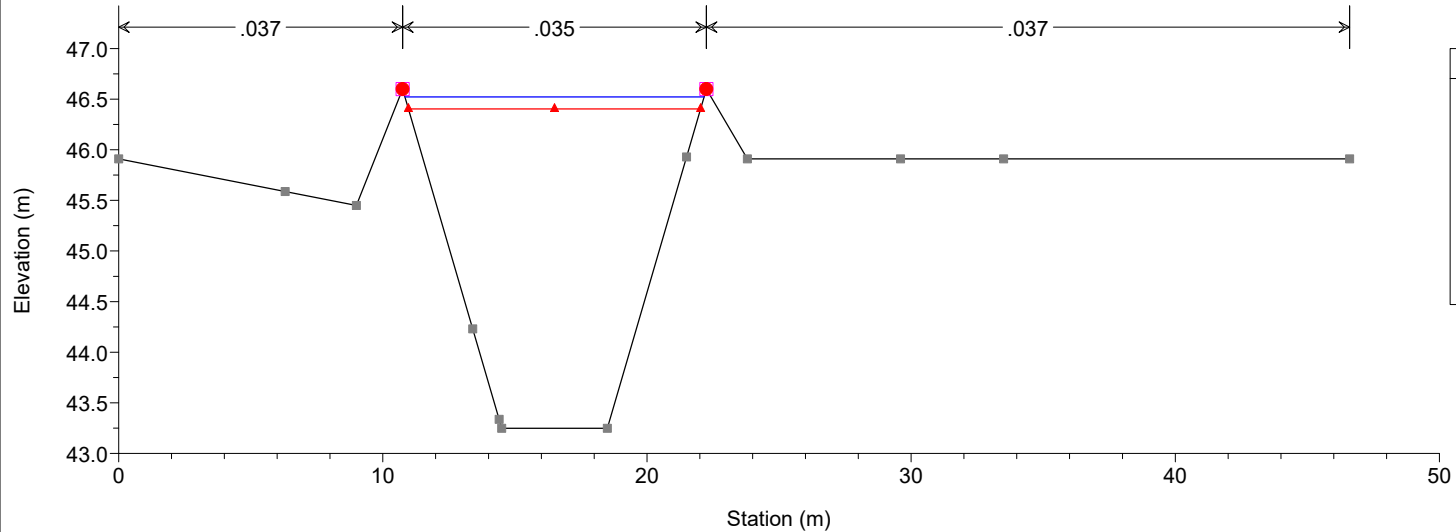


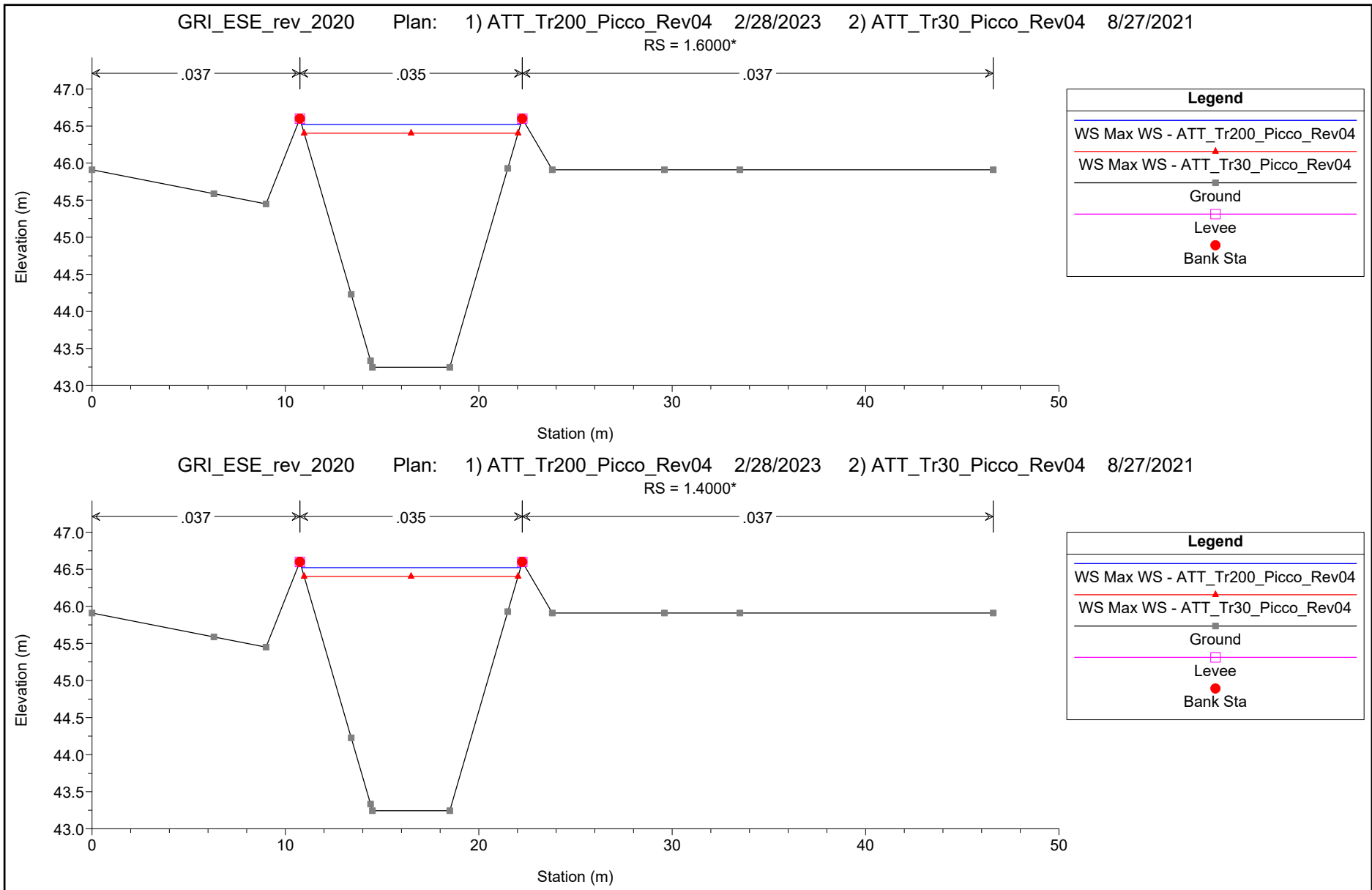


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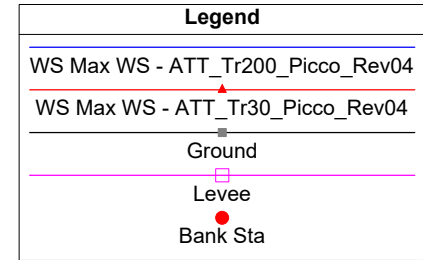
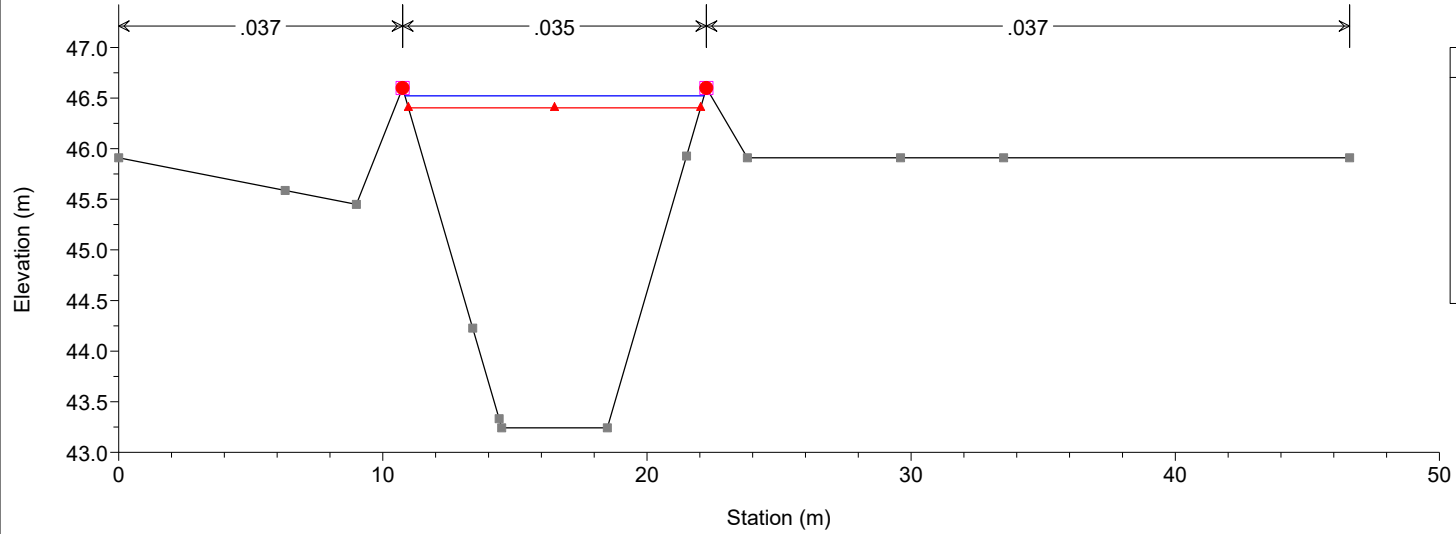


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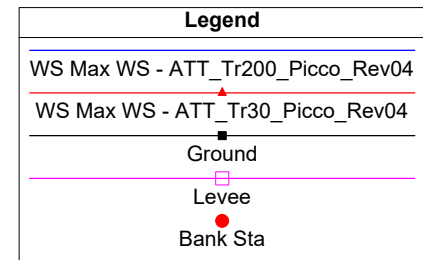
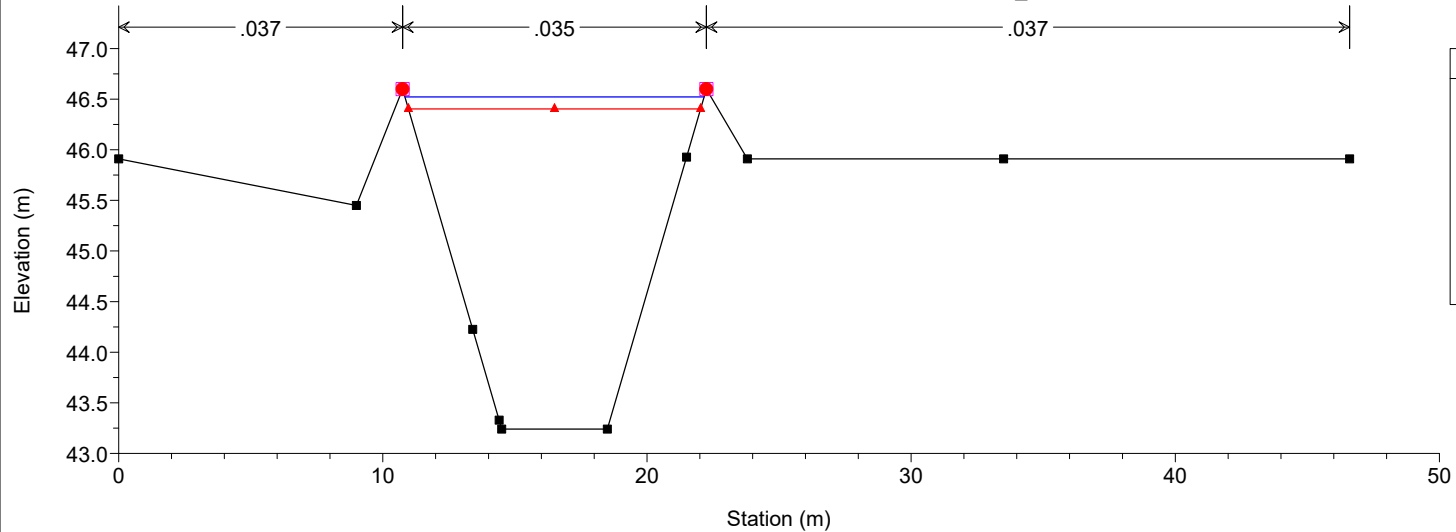




GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021  
 RS = 1.2000\*



GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_Picco\_Rev04 2/28/2023 2) ATT\_Tr30\_Picco\_Rev04 8/27/2021  
 RS = 1 PGR0007\_d



HEC-RAS River: Grignana Reach: Grignana Profile: Max WS

Reach	River Sta	Profile	Plan	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
Grignana	27	Max WS	ATT_Tr200_Picco_Rev04	20.16	49.83	52.07	52.12	52.87	0.029215	3.96	5.10	4.03	1.12
Grignana	27	Max WS	ATT_Tr30_Picco_Rev04	14.05	49.83	51.88	51.88	52.42	0.022381	3.23	4.35	4.03	0.99
Grignana	26.8	Max WS	ATT_Tr200_Picco_Rev04	20.16	49.77	52.02	52.03	52.68	0.018608	3.60	5.60	4.43	1.02
Grignana	26.8	Max WS	ATT_Tr30_Picco_Rev04	14.05	49.77	51.79	51.76	52.27	0.016774	3.07	4.58	4.43	0.96
Grignana	26.7			Lat Struct									
Grignana	26	Max WS	ATT_Tr200_Picco_Rev04	16.76	49.37	51.47		51.79	0.011645	2.49	6.74	7.34	0.83
Grignana	26	Max WS	ATT_Tr30_Picco_Rev04	12.25	49.37	51.28		51.55	0.011155	2.29	5.36	6.50	0.80
Grignana	25	Max WS	ATT_Tr200_Picco_Rev04	15.84	49.08	50.98		51.41	0.014143	2.89	5.49	5.61	0.93
Grignana	25	Max WS	ATT_Tr30_Picco_Rev04	12.09	49.08	50.83		51.17	0.012709	2.60	4.64	5.11	0.87
Grignana	24.8			Lat Struct									
Grignana	24	Max WS	ATT_Tr200_Picco_Rev04	13.93	48.66	50.35		50.55	0.006337	2.14	7.64	10.26	0.65
Grignana	24	Max WS	ATT_Tr30_Picco_Rev04	11.18	48.66	50.24		50.42	0.006369	2.04	6.47	10.12	0.65
Grignana	23	Max WS	ATT_Tr200_Picco_Rev04	8.57	48.44	49.95		50.27	0.012164	2.50	3.42	2.87	0.73
Grignana	23	Max WS	ATT_Tr30_Picco_Rev04	7.33	48.44	49.84		50.13	0.011778	2.38	3.08	2.87	0.73
Grignana	22	Max WS	ATT_Tr200_Picco_Rev04	7.24	47.85	49.13		49.39	0.010803	2.24	3.23	3.34	0.73
Grignana	22	Max WS	ATT_Tr30_Picco_Rev04	6.12	47.85	49.03		49.26	0.010645	2.13	2.88	3.34	0.73
Grignana	21	Max WS	ATT_Tr200_Picco_Rev04	6.43	47.46	48.62		48.85	0.009838	2.10	3.05	3.52	0.72
Grignana	21	Max WS	ATT_Tr30_Picco_Rev04	5.36	47.46	48.54		48.73	0.009080	1.94	2.77	3.52	0.70
Grignana	20	Max WS	ATT_Tr200_Picco_Rev04	5.84	46.92	48.14		48.39	0.011605	2.22	2.63	2.99	0.75
Grignana	20	Max WS	ATT_Tr30_Picco_Rev04	5.18	46.92	48.06		48.30	0.011813	2.16	2.40	2.99	0.77
Grignana	19	Max WS	ATT_Tr200_Picco_Rev04	6.54	46.33	47.79		47.88	0.002935	1.34	4.87	4.64	0.42
Grignana	19	Max WS	ATT_Tr30_Picco_Rev04	5.81	46.33	47.70		47.78	0.002980	1.30	4.47	4.64	0.42
Grignana	18	Max WS	ATT_Tr200_Picco_Rev04	8.09	45.68	47.48		47.60	0.003491	1.55	5.21	3.96	0.43
Grignana	18	Max WS	ATT_Tr30_Picco_Rev04	7.37	45.68	47.39		47.50	0.003547	1.52	4.85	3.96	0.44
Grignana	17	Max WS	ATT_Tr200_Picco_Rev04	8.27	45.51	47.32		47.45	0.003688	1.59	5.20	4.13	0.45
Grignana	17	Max WS	ATT_Tr30_Picco_Rev04	7.58	45.51	47.22		47.35	0.003922	1.59	4.78	4.13	0.47

HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	16	Max WS	ATT_Tr200_Picco_Rev04	8.41	45.38	47.12		47.23	0.002828	1.45	5.80	4.22	0.40
Grignana	16	Max WS	ATT_Tr30_Picco_Rev04	7.38	45.38	47.04		47.13	0.002588	1.36	5.45	4.22	0.38
Grignana	15	Max WS	ATT_Tr200_Picco_Rev04	7.74	45.42	46.86		47.04	0.006184	1.89	4.10	3.42	0.55
Grignana	15	Max WS	ATT_Tr30_Picco_Rev04	7.12	45.42	46.75		46.94	0.006943	1.92	3.70	3.42	0.59
Grignana	14.9			Lat Struct									
Grignana	14.8			Lat Struct									
Grignana	14	Max WS	ATT_Tr200_Picco_Rev04	7.65	45.20	46.74		46.84	0.002845	1.34	5.70	5.08	0.40
Grignana	14	Max WS	ATT_Tr30_Picco_Rev04	6.50	45.20	46.63		46.71	0.002797	1.27	5.13	5.08	0.40
Grignana	13	Max WS	ATT_Tr200_Picco_Rev04	7.23	45.05	46.59		46.70	0.003674	1.52	4.75	3.95	0.44
Grignana	13	Max WS	ATT_Tr30_Picco_Rev04	6.21	45.05	46.47		46.58	0.003619	1.45	4.28	3.95	0.45
Grignana	12	Max WS	ATT_Tr200_Picco_Rev04	6.71	44.94	46.52		46.57	0.001567	1.01	6.68	6.36	0.31
Grignana	12	Max WS	ATT_Tr30_Picco_Rev04	5.35	44.94	46.41		46.45	0.001386	0.89	5.98	6.36	0.29
Grignana	11	Max WS	ATT_Tr200_Picco_Rev04	6.75	44.62	46.51		46.53	0.000643	0.61	11.03	12.39	0.21
Grignana	11	Max WS	ATT_Tr30_Picco_Rev04	5.33	44.62	46.39		46.41	0.000617	0.55	9.62	12.39	0.20
Grignana	10	Max WS	ATT_Tr200_Picco_Rev04	4.07	44.65	46.51		46.52	0.000346	0.46	8.80	8.76	0.15
Grignana	10	Max WS	ATT_Tr30_Picco_Rev04	3.09	44.65	46.39		46.40	0.000290	0.40	7.80	8.76	0.13
Grignana	9	Max WS	ATT_Tr200_Picco_Rev04	0.54	44.61	46.53		46.53	0.000005	0.06	9.03	7.10	0.02
Grignana	9	Max WS	ATT_Tr30_Picco_Rev04	0.41	44.61	46.41		46.41	0.000004	0.05	8.18	7.10	0.01
Grignana	8	Max WS	ATT_Tr200_Picco_Rev04	0.21	44.70	46.53	44.82	46.53	0.000001	0.02	8.84	7.10	0.01
Grignana	8	Max WS	ATT_Tr30_Picco_Rev04	0.19	44.70	46.41	44.81	46.41	0.000001	0.02	8.00	7.10	0.01
Grignana	7.5			Bridge									
Grignana	7	Max WS	ATT_Tr200_Picco_Rev04	0.18	44.70	46.52		46.52	0.000001	0.02	9.20	8.40	0.01
Grignana	7	Max WS	ATT_Tr30_Picco_Rev04	0.15	44.70	46.40		46.40	0.000001	0.02	8.21	8.40	0.01
Grignana	6	Max WS	ATT_Tr200_Picco_Rev04	0.18	44.75	46.52		46.52	0.000002	0.04	5.11	4.17	0.01
Grignana	6	Max WS	ATT_Tr30_Picco_Rev04	0.15	44.75	46.40		46.40	0.000002	0.03	4.63	4.07	0.01

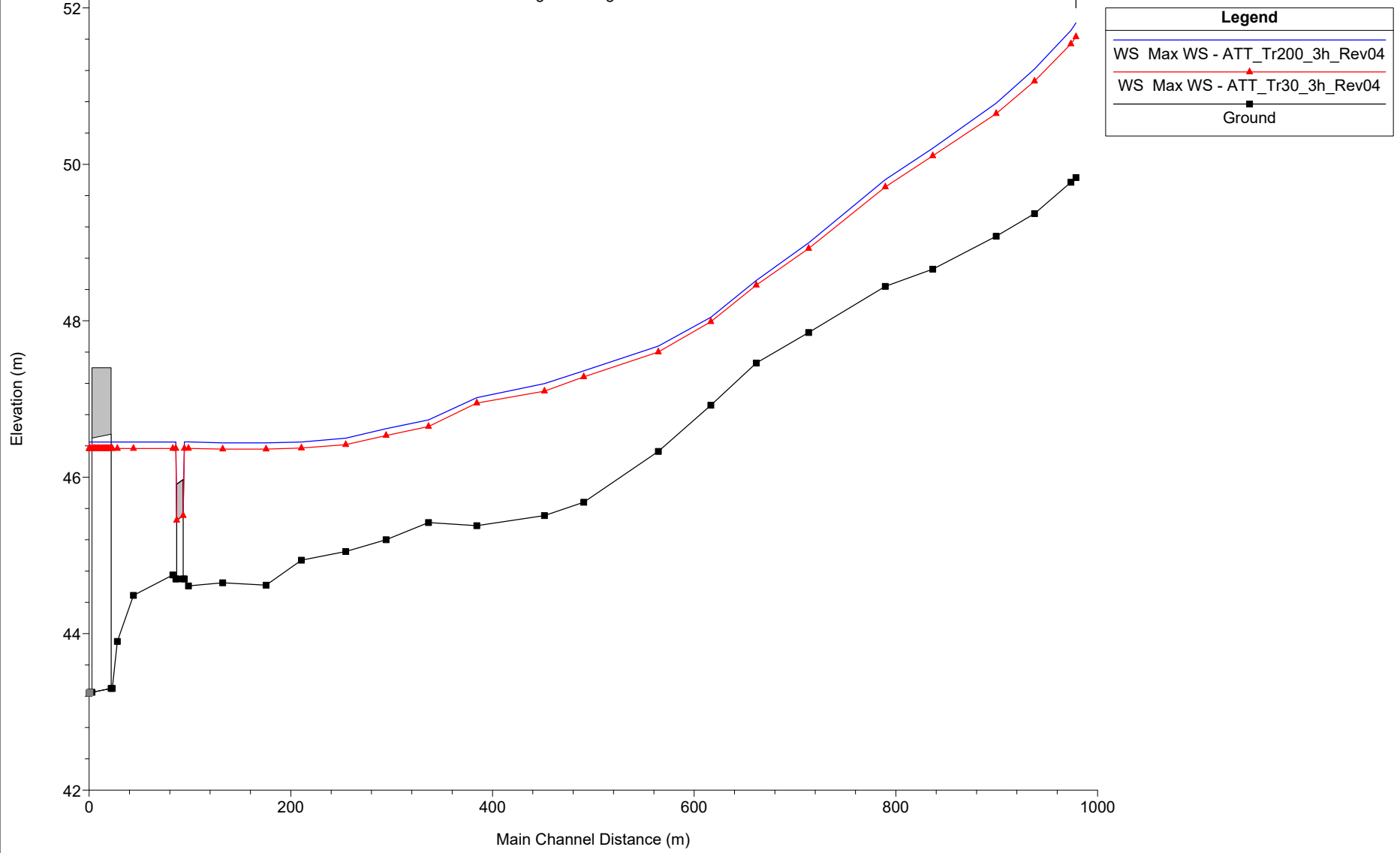
HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	5.9			Lat Struct									
Grignana	5.8			Lat Struct									
Grignana	5	Max WS	ATT_Tr200_Picco_Rev04	0.13	44.49	46.52		46.52	0.000000	0.02	6.76	7.63	0.01
Grignana	5	Max WS	ATT_Tr30_Picco_Rev04	0.06	44.49	46.40		46.40	0.000000	0.01	5.87	7.35	0.00
Grignana	4	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.90	46.52		46.52	0.000000	0.00	15.55	9.87	0.00
Grignana	4	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.90	46.40		46.40	0.000000	0.00	14.42	9.51	0.00
Grignana	3	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.30	46.52		46.52	0.000000	0.00	23.27	10.44	0.00
Grignana	3	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.30	46.40		46.40	0.000000	0.00	22.06	10.21	0.00
Grignana	2.5			Culvert									
Grignana	2	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.25	46.52		46.52	0.000000	0.00	25.07	11.32	0.00
Grignana	2	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.25	46.40		46.40	0.000000	0.00	23.76	11.06	0.00
Grignana	1.8000*	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.25	46.52		46.52	0.000000	0.00	25.08	11.32	0.00
Grignana	1.8000*	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.25	46.40		46.40	0.000000	0.00	23.77	11.06	0.00
Grignana	1.6000*	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.25	46.52		46.52	0.000000	0.00	25.10	11.32	0.00
Grignana	1.6000*	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.25	46.40		46.40	0.000000	0.00	23.79	11.06	0.00
Grignana	1.4000*	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.24	46.52		46.52	0.000000	0.00	25.11	11.33	0.00
Grignana	1.4000*	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.24	46.40		46.40	0.000000	0.00	23.80	11.06	0.00
Grignana	1.2000*	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.24	46.52		46.52	0.000000	0.00	25.13	11.33	0.00
Grignana	1.2000*	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.24	46.40		46.40	0.000000	0.00	23.82	11.06	0.00
Grignana	1	Max WS	ATT_Tr200_Picco_Rev04	0.00	43.24	46.52	43.25	46.52	0.000000	0.00	25.15	11.33	0.00
Grignana	1	Max WS	ATT_Tr30_Picco_Rev04	0.00	43.24	46.40	43.25	46.40	0.000000	0.00	23.83	11.06	0.00

**Rio Grignana - Verifiche idrauliche moto vario stato attuale**  
**Tr=200 e Tr=30 anni – Tp 3 ore**

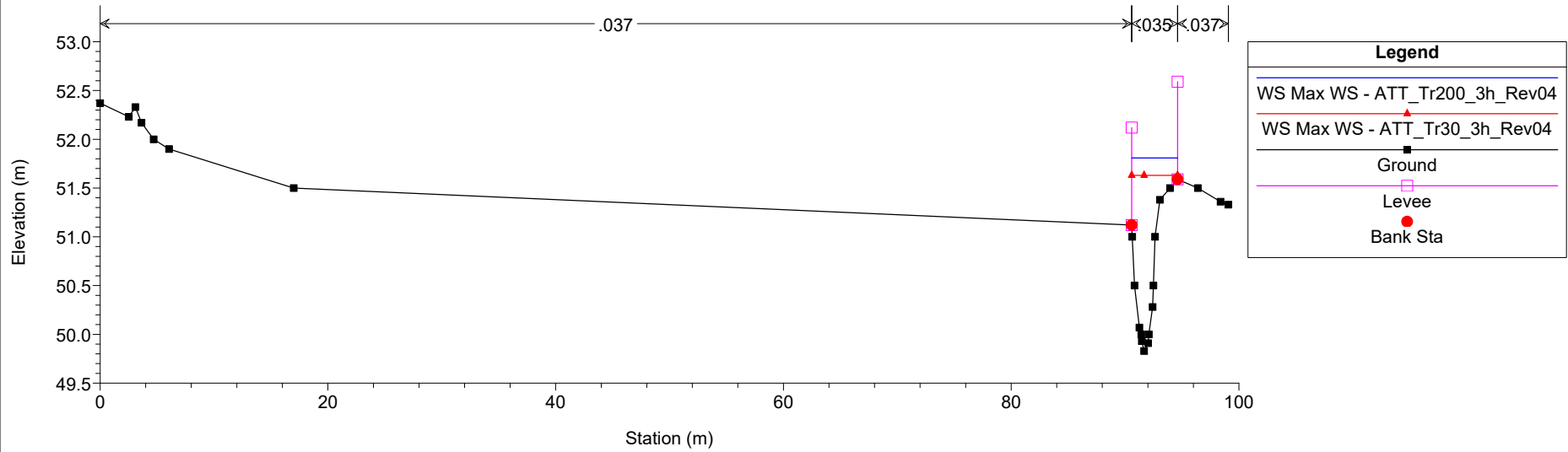
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Grignana Grignana

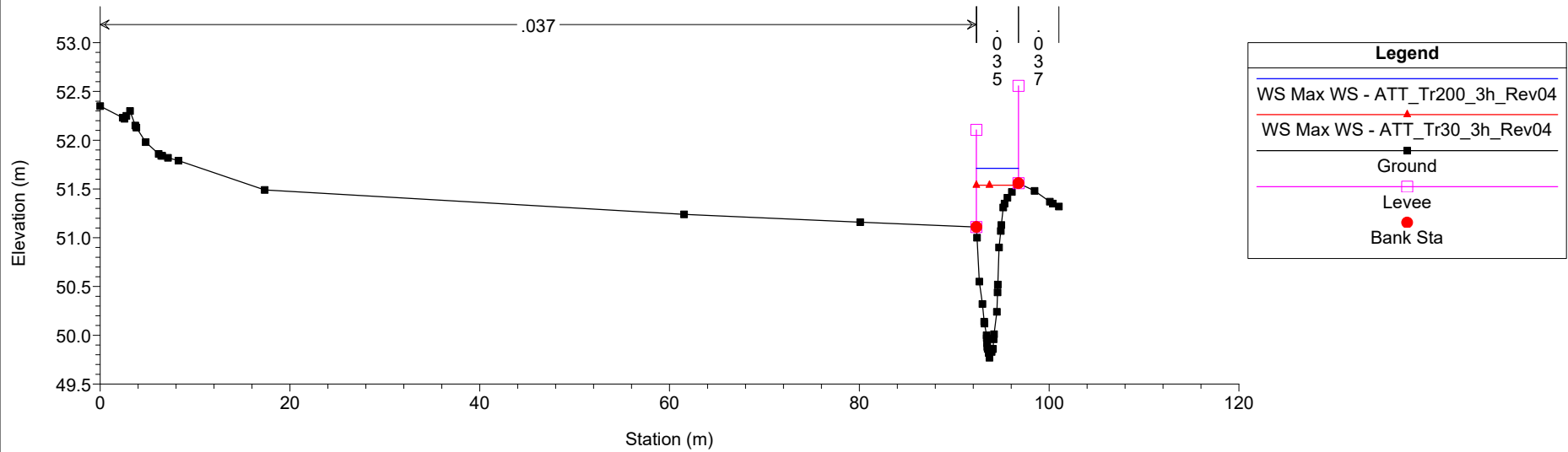




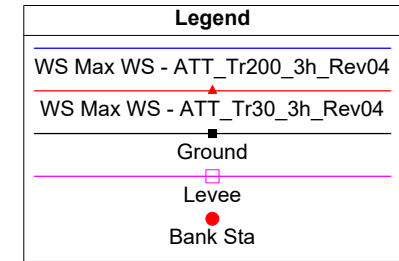
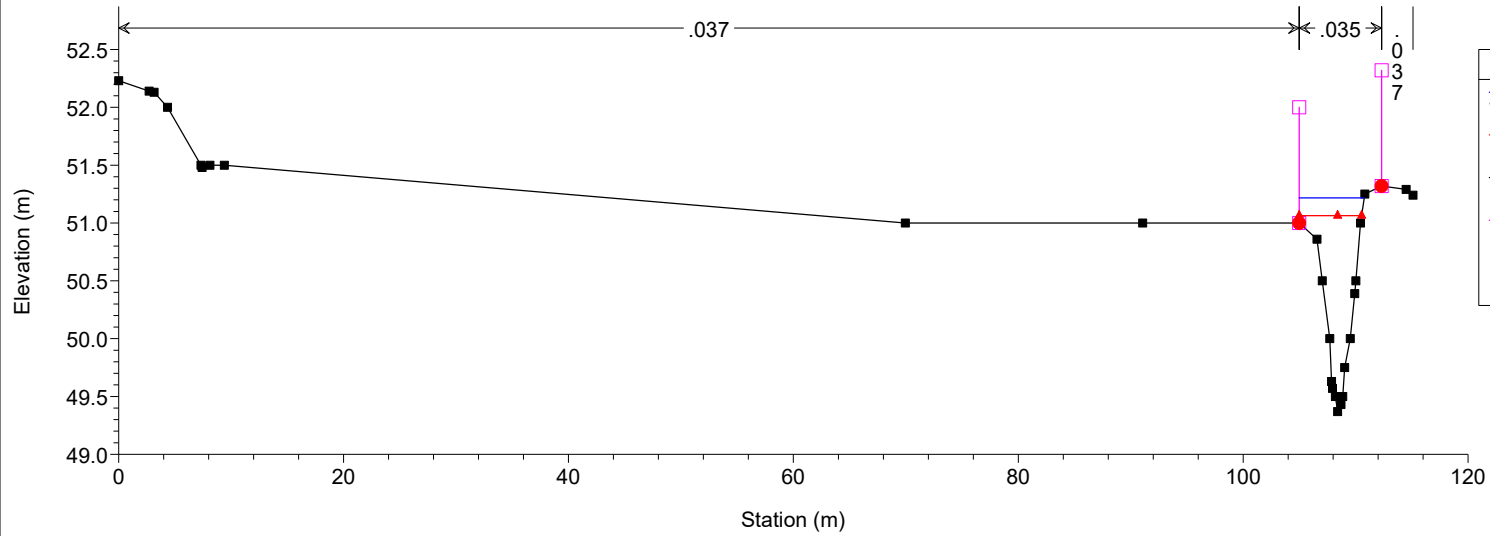
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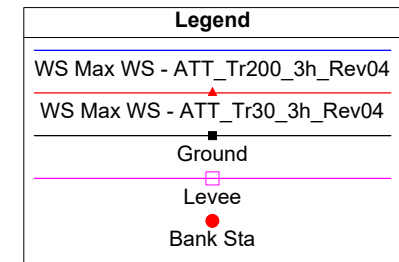
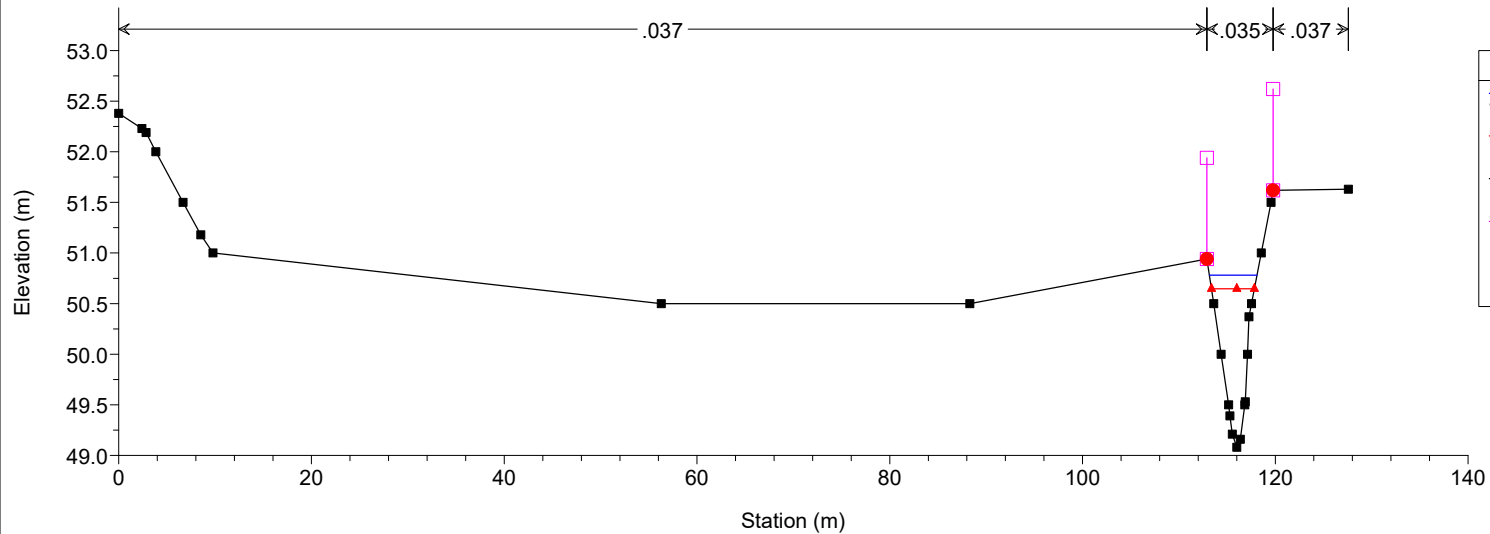
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RS = 26

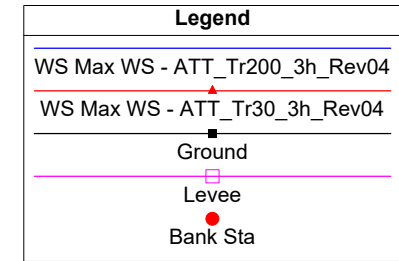
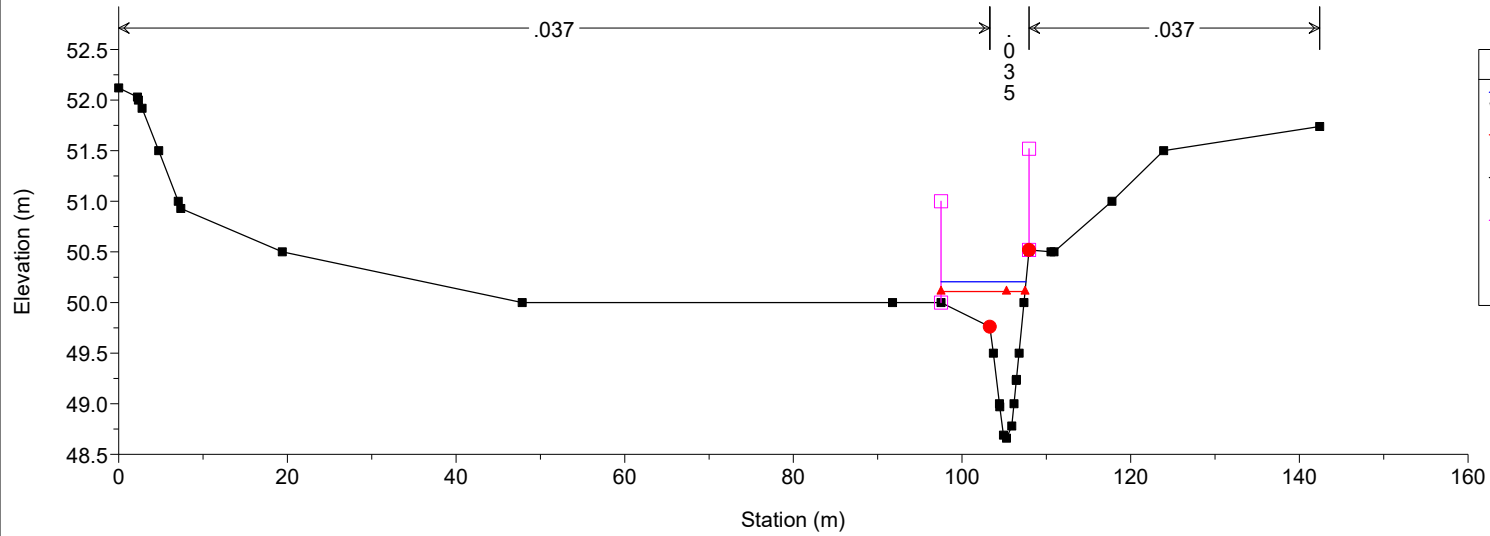


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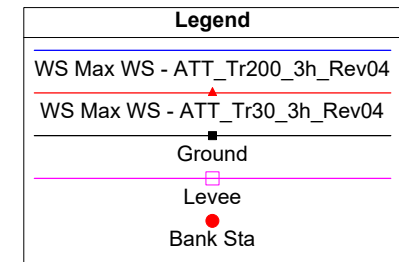
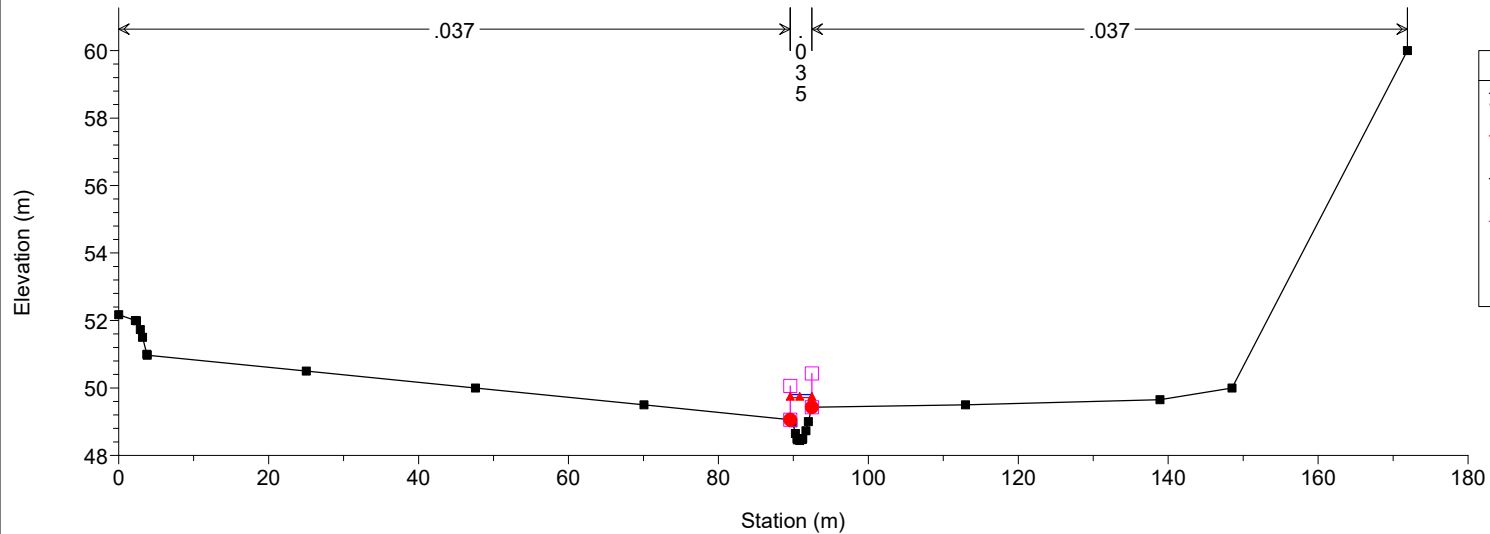
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RS = 24

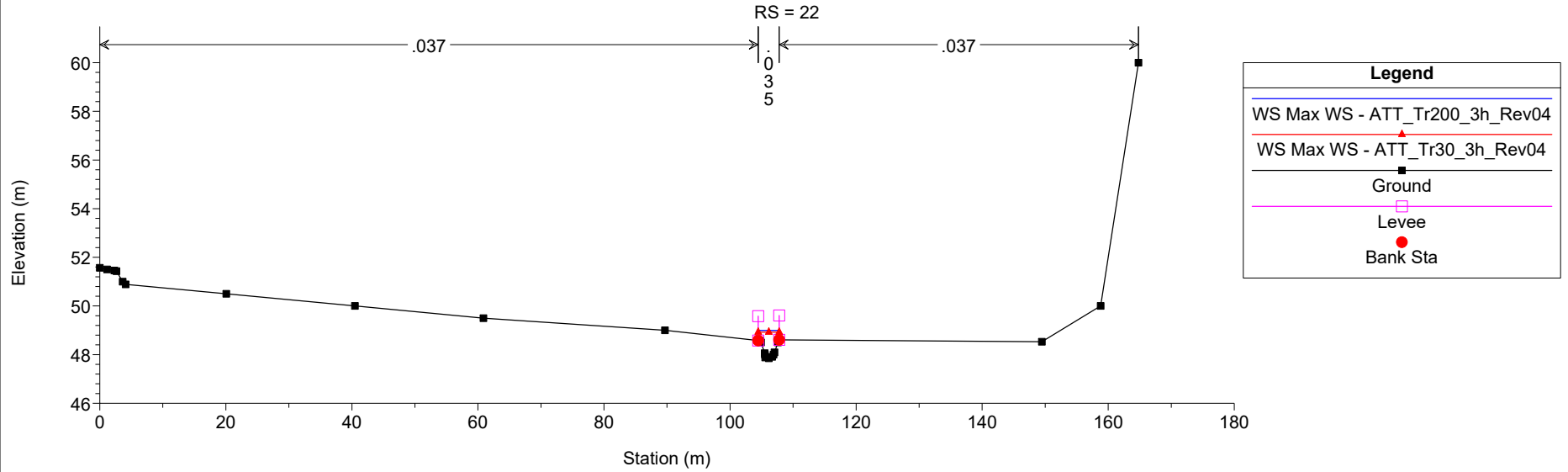


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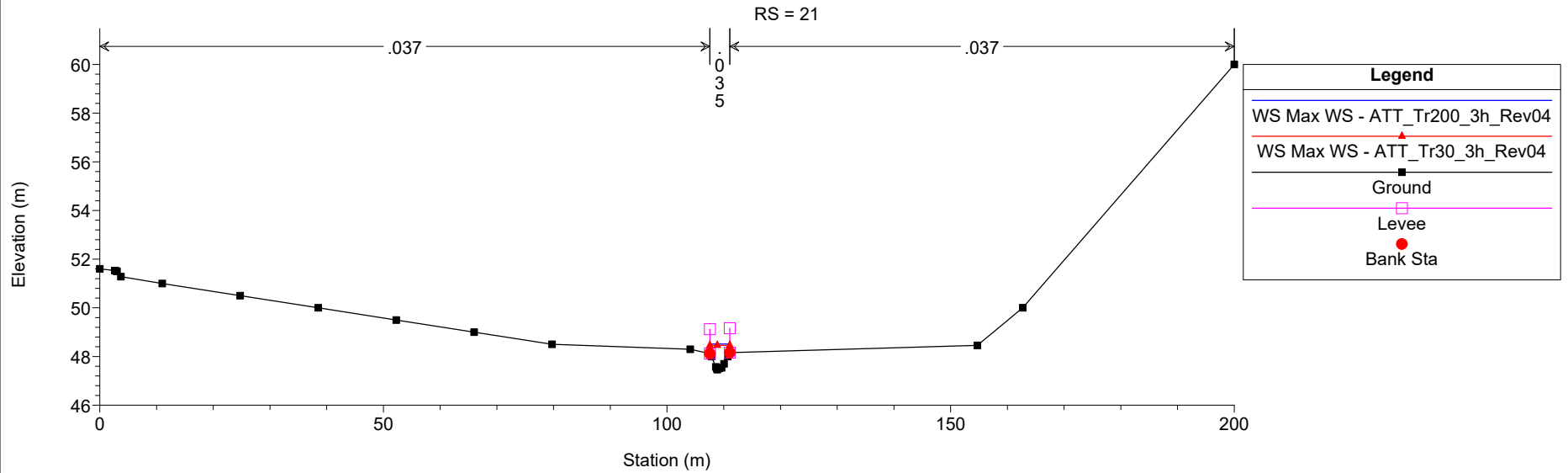
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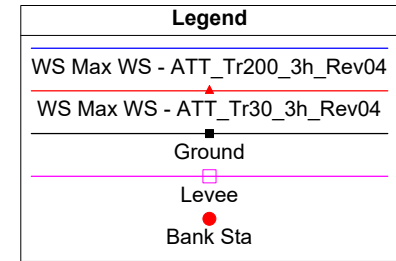
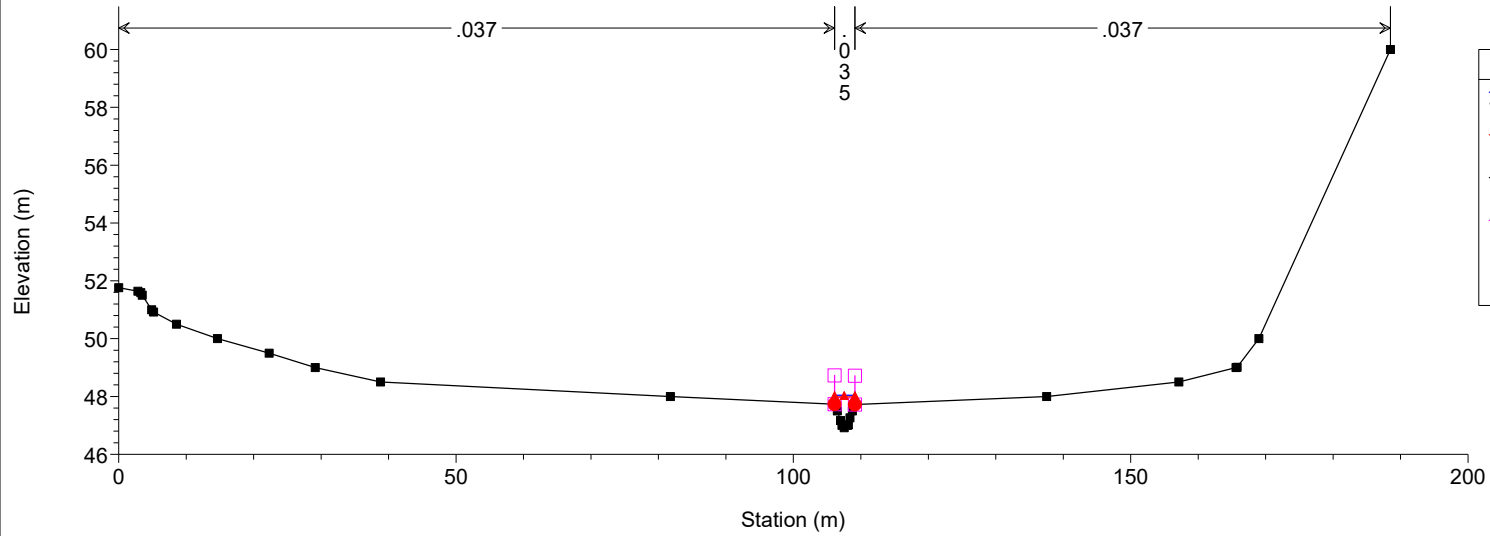


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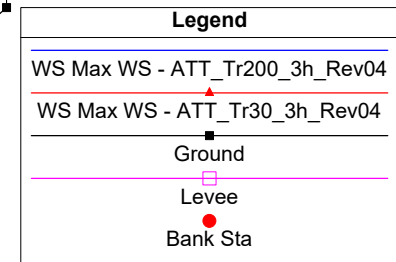
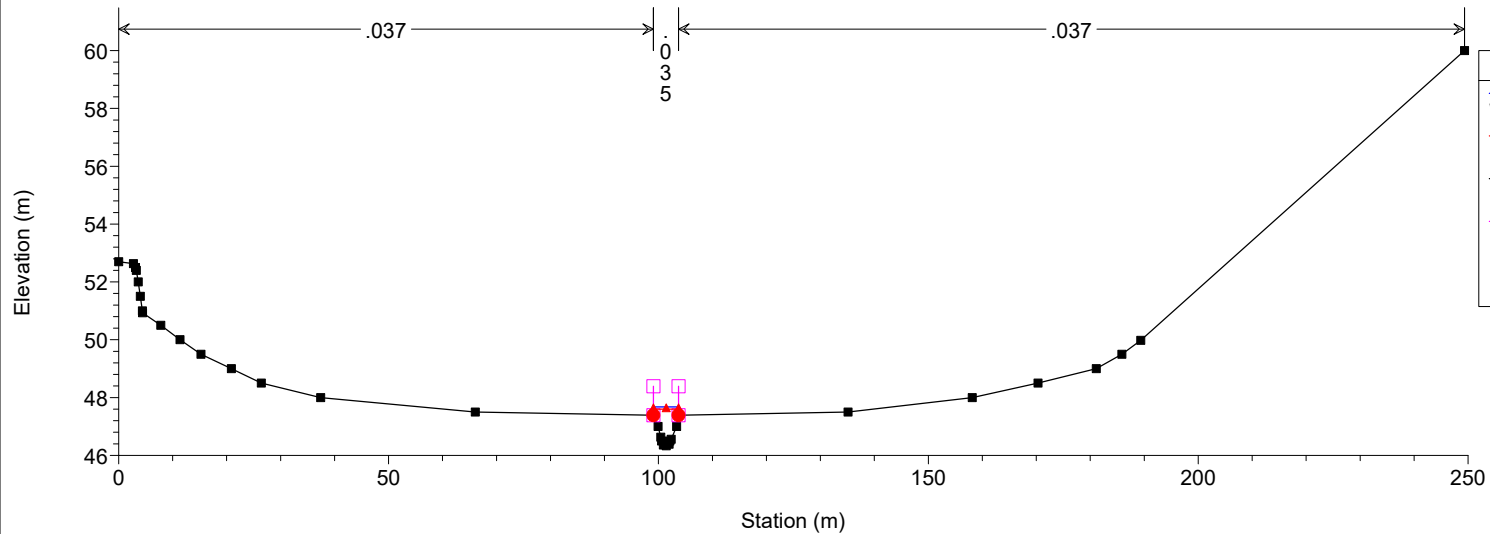
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RS = 20



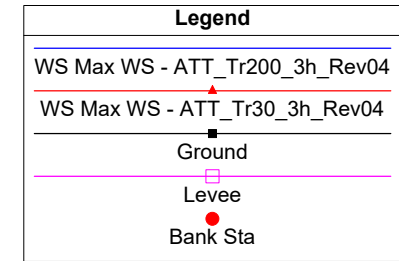
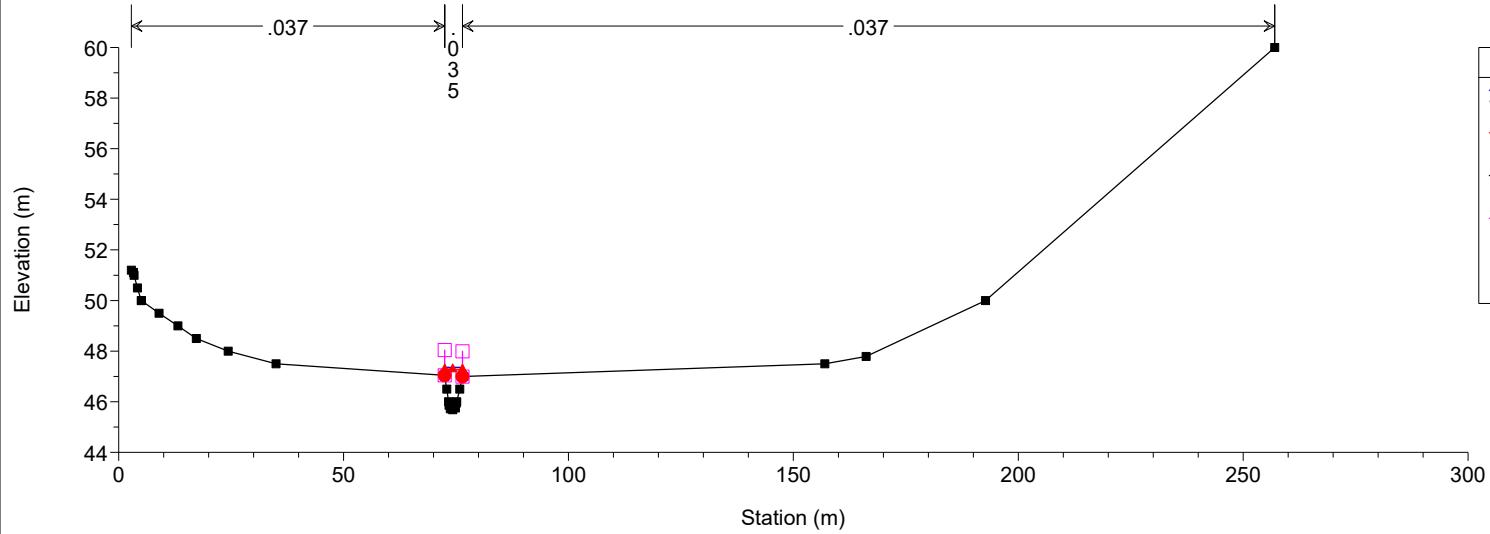
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RS = 19



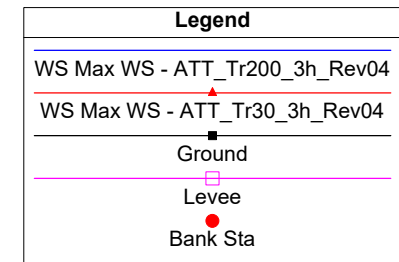
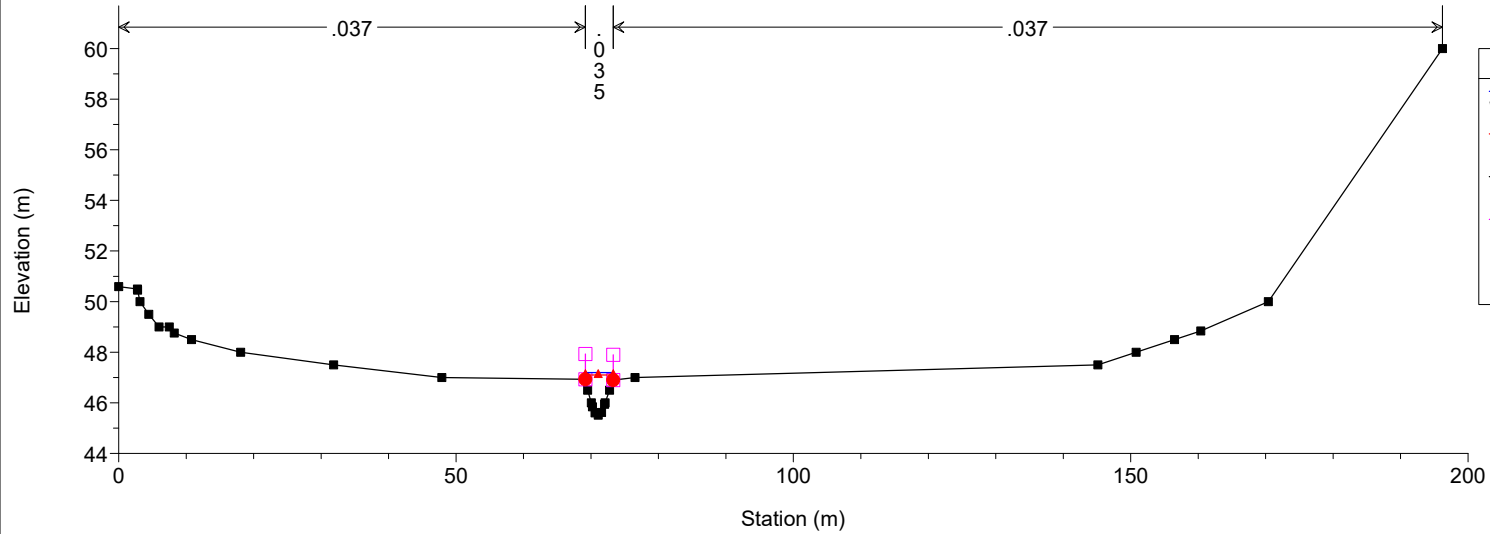
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RS = 18



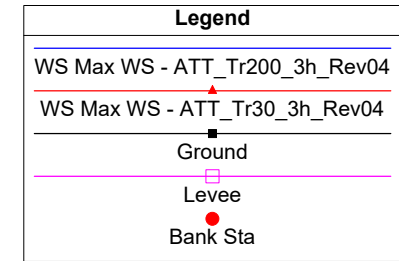
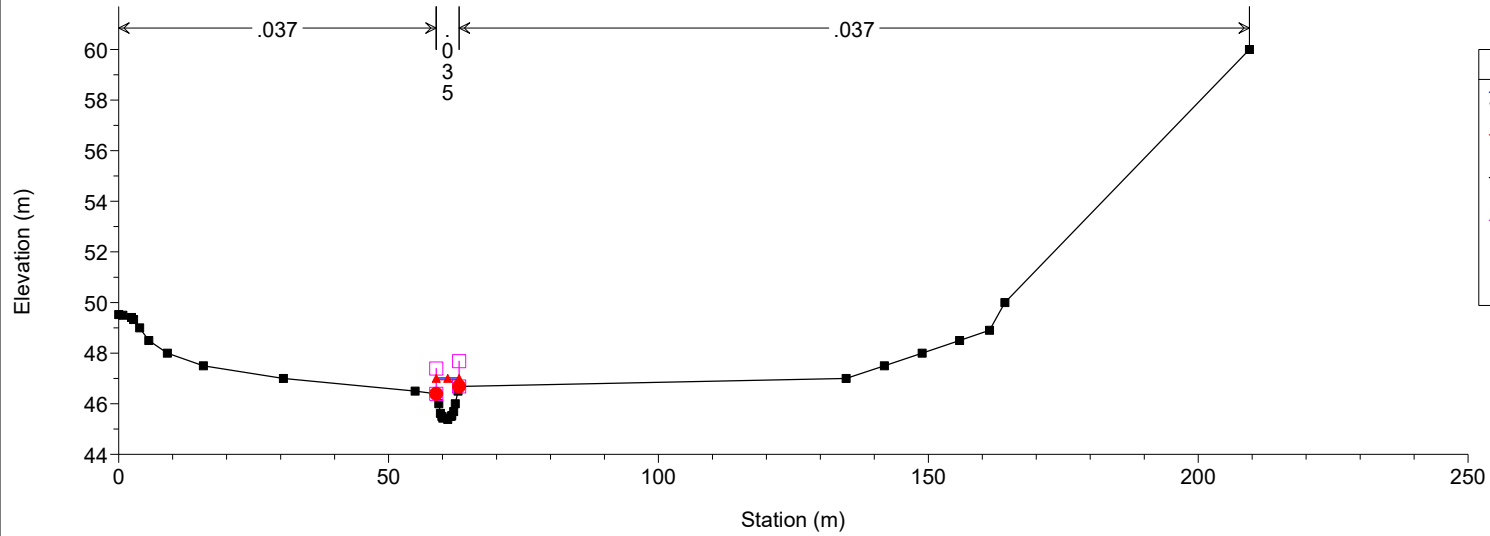
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RS = 17



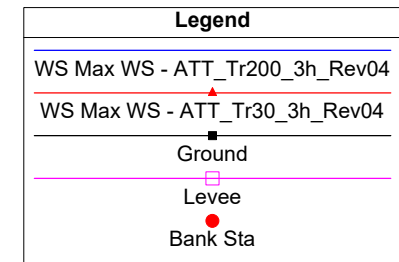
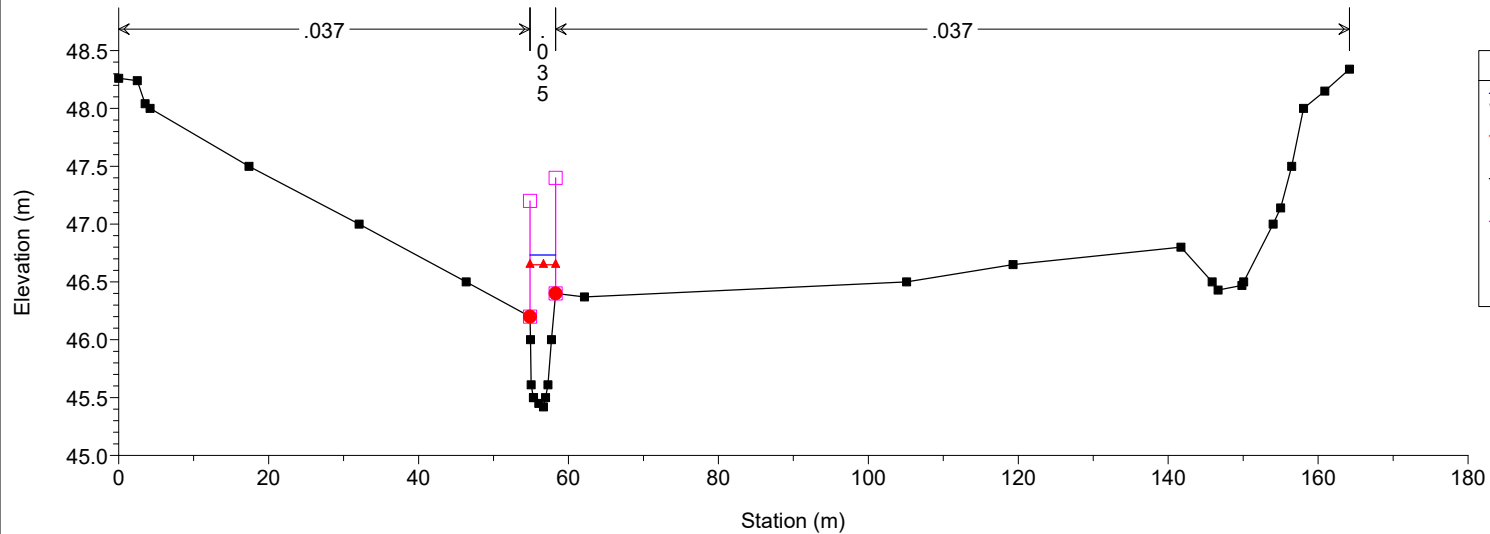
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RS = 16



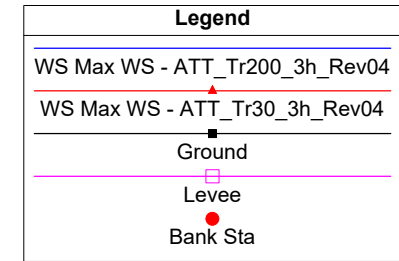
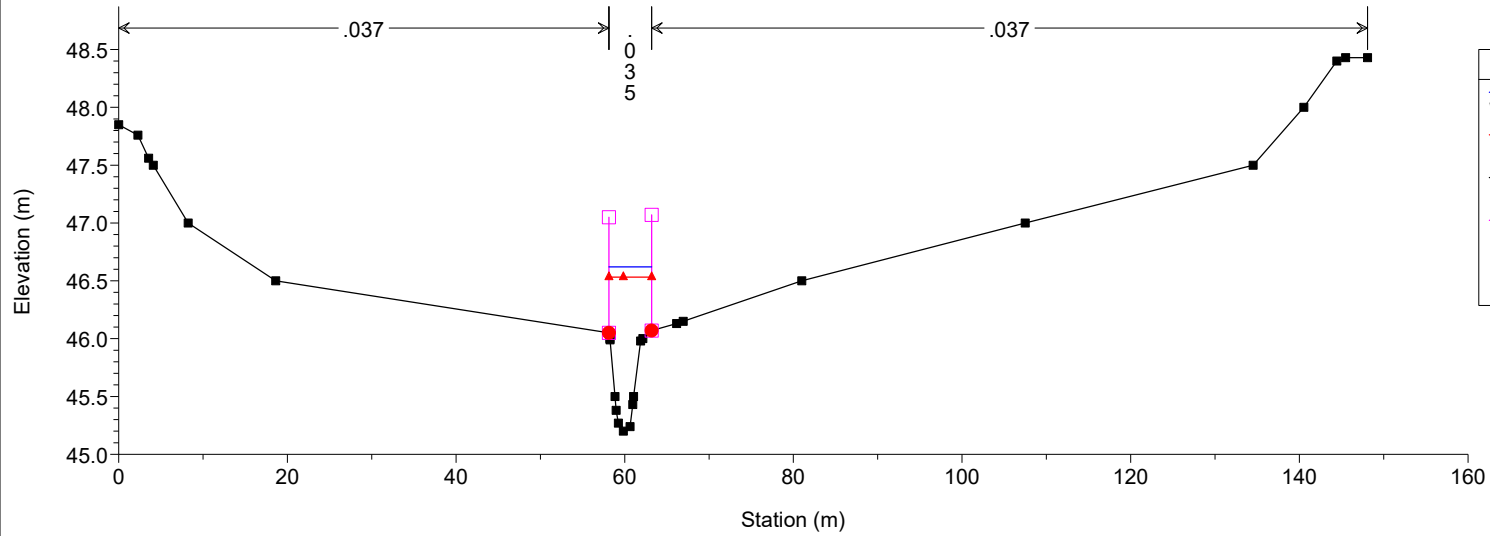
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RS = 15



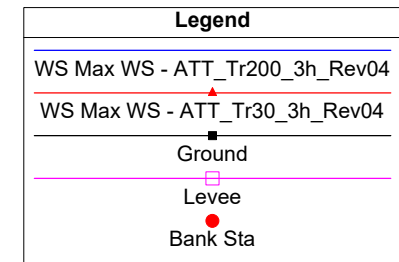
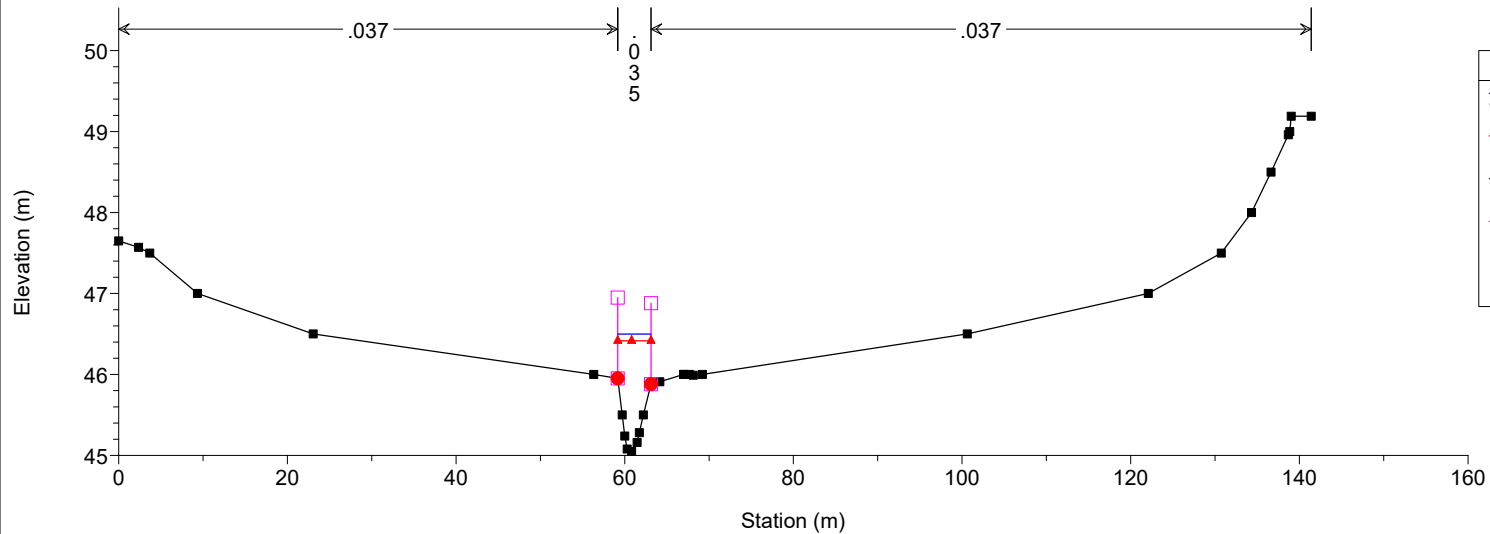
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RS = 14

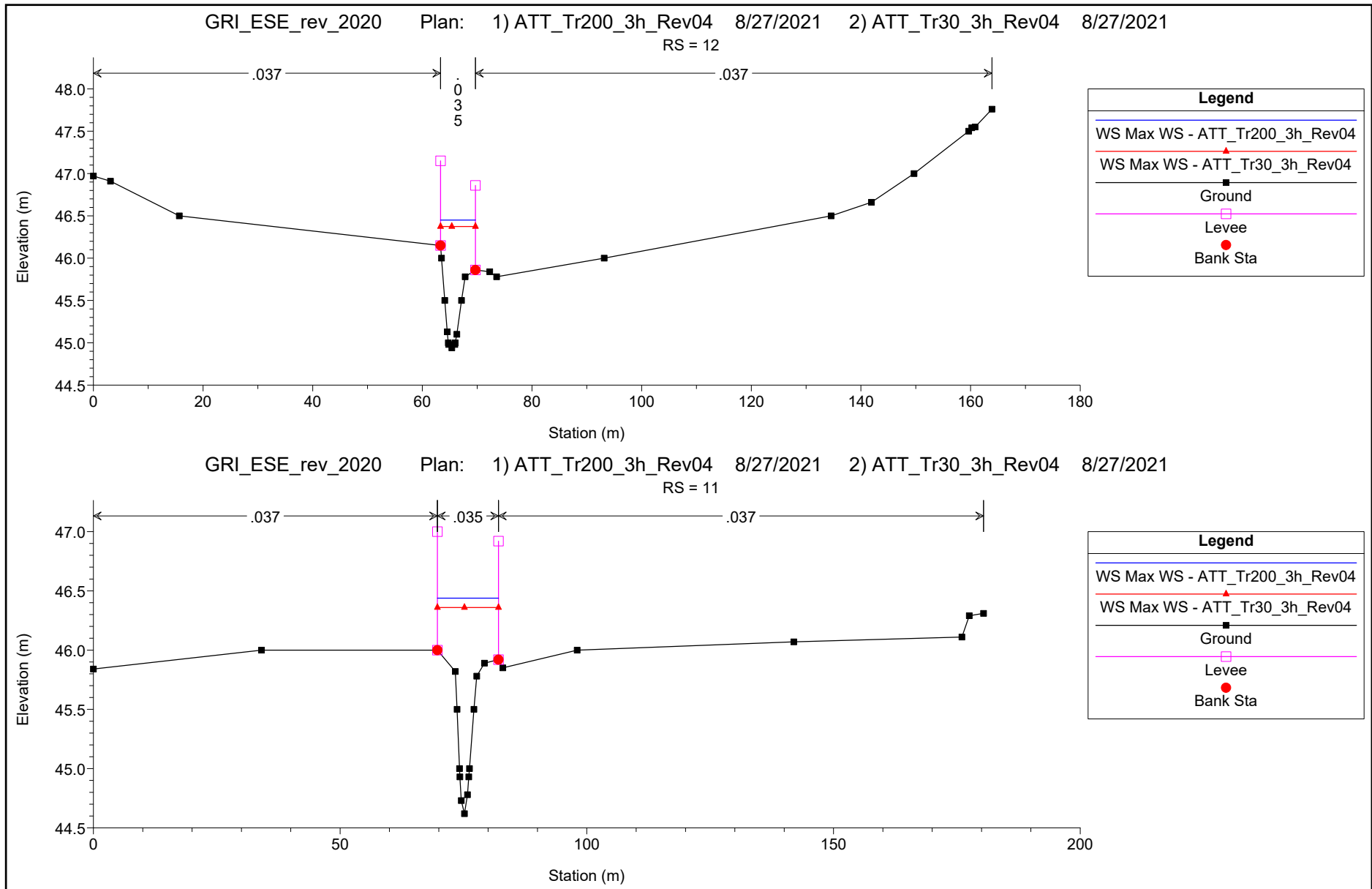


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RS = 13

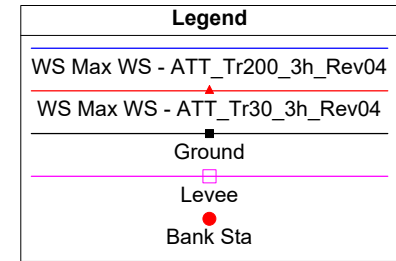
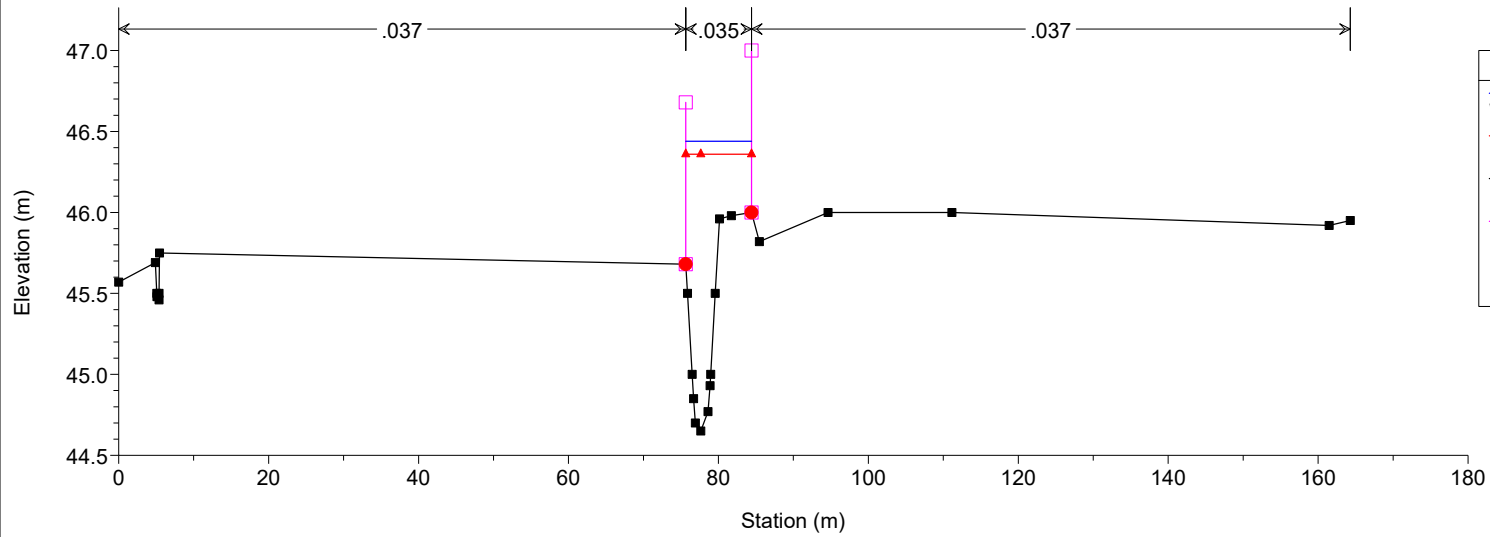






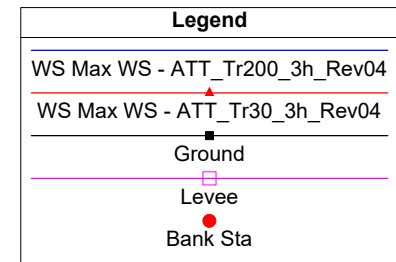
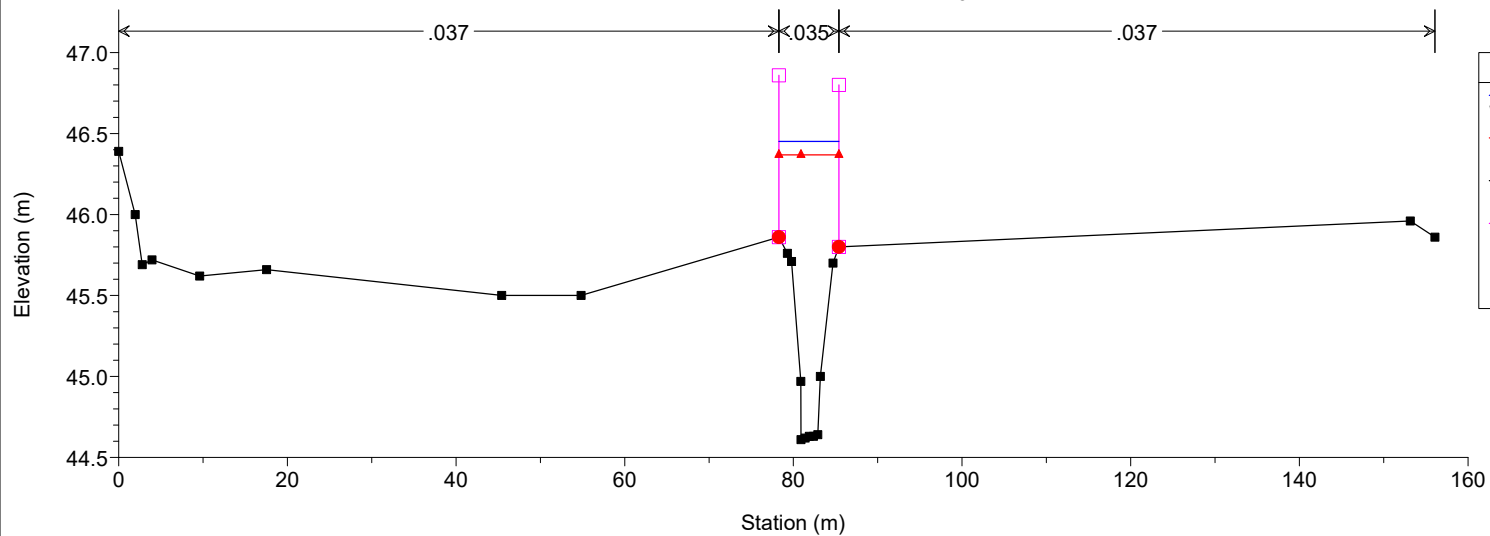
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RS = 10

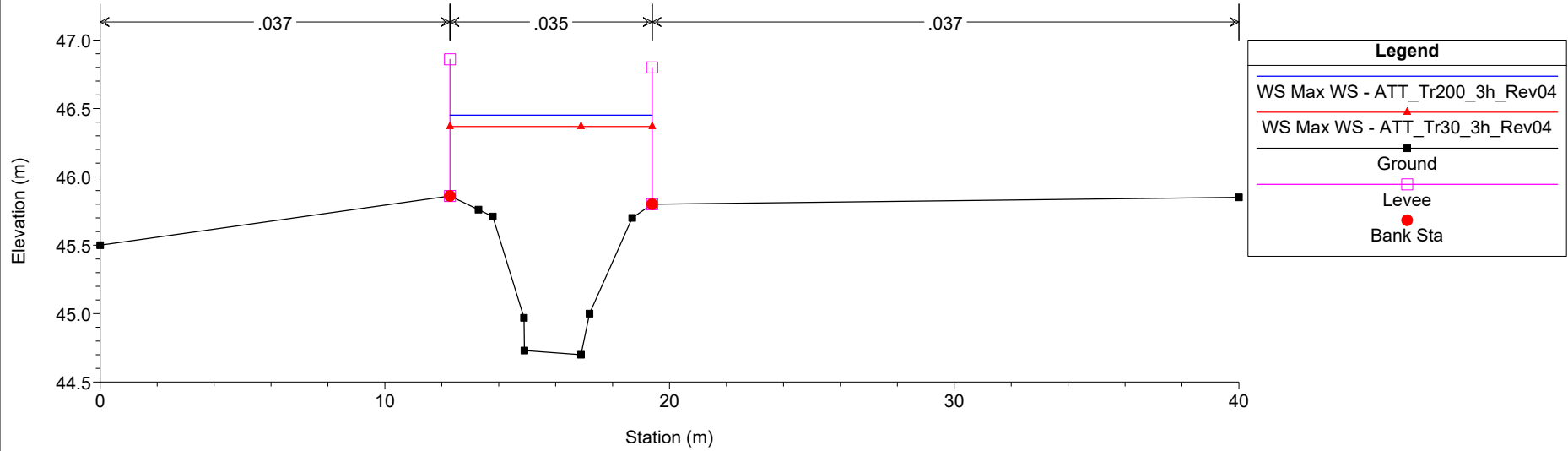


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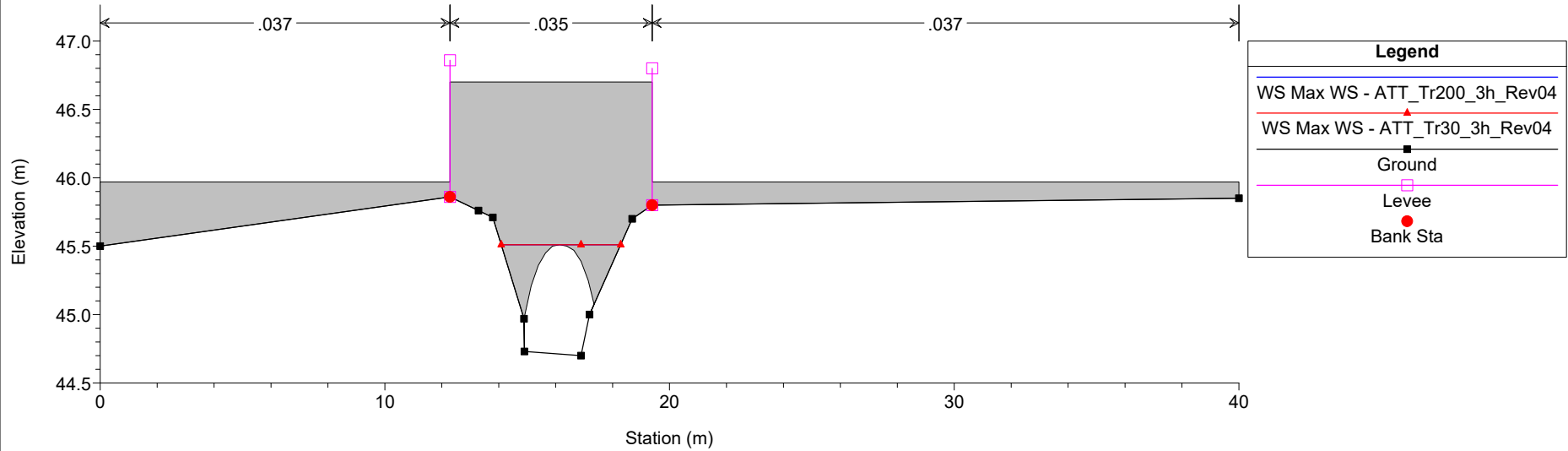
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GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021  
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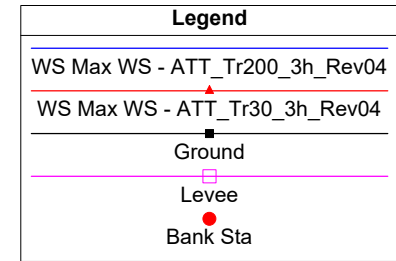
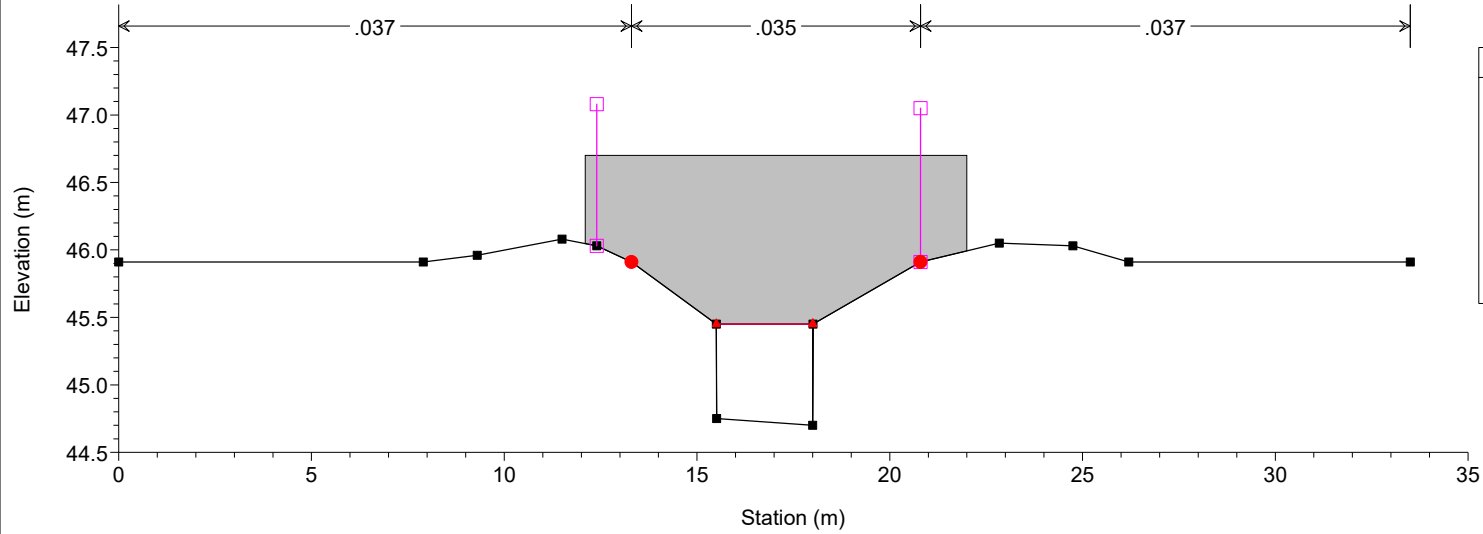


GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021  
RS = 7.5 BR Ponte Sanminiatese esistente



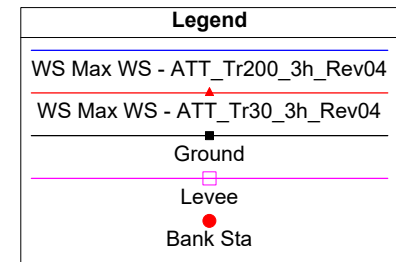
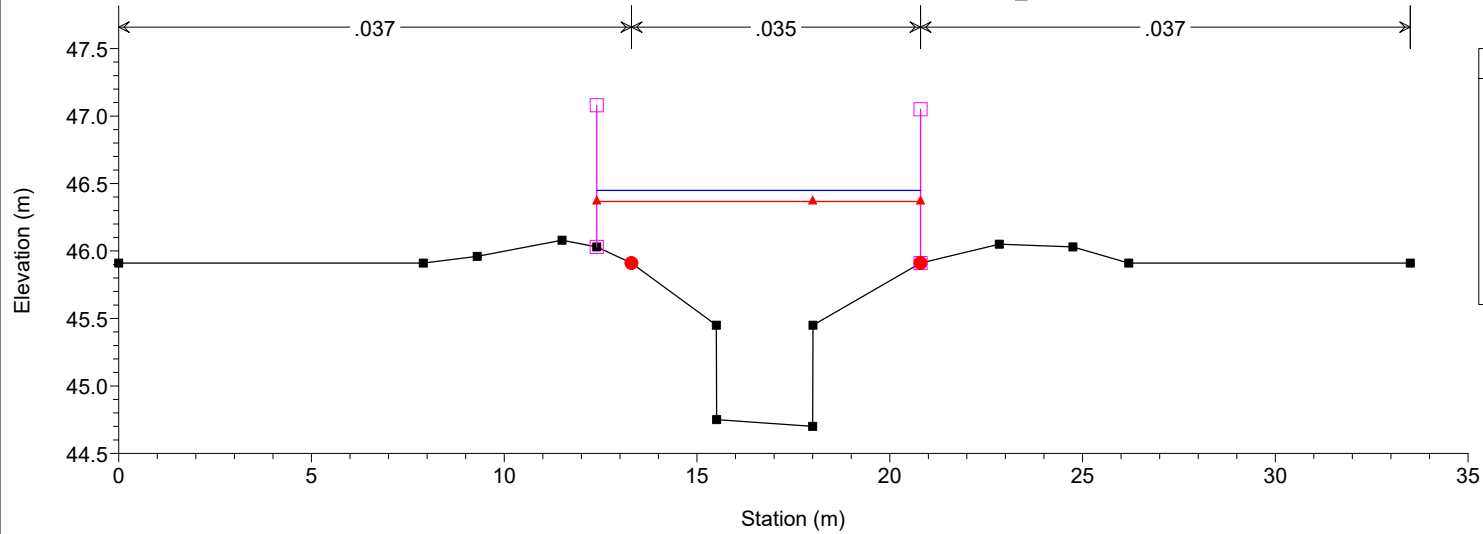
GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021

RS = 7.5 BR Ponte Sanminiatese esistente

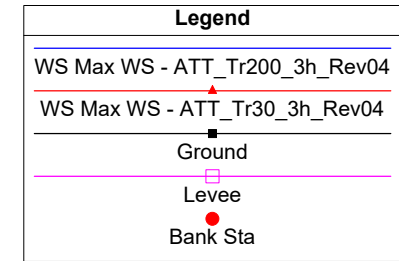
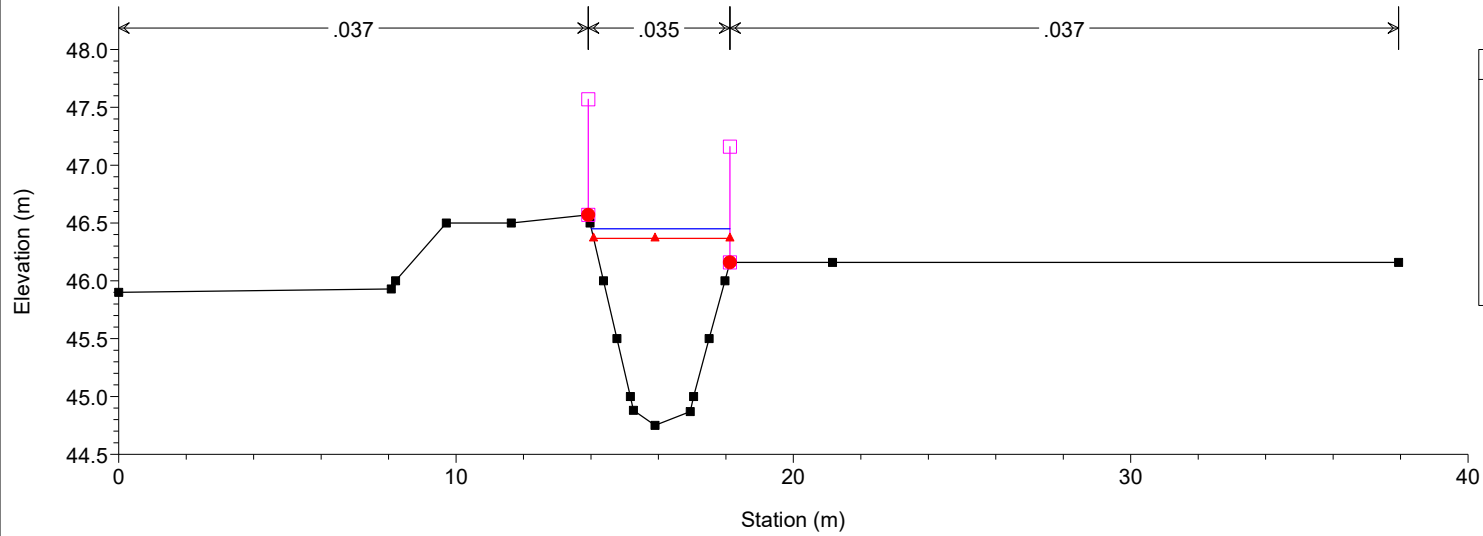


GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021

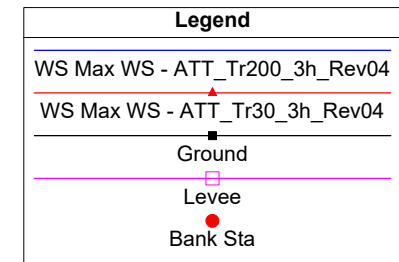
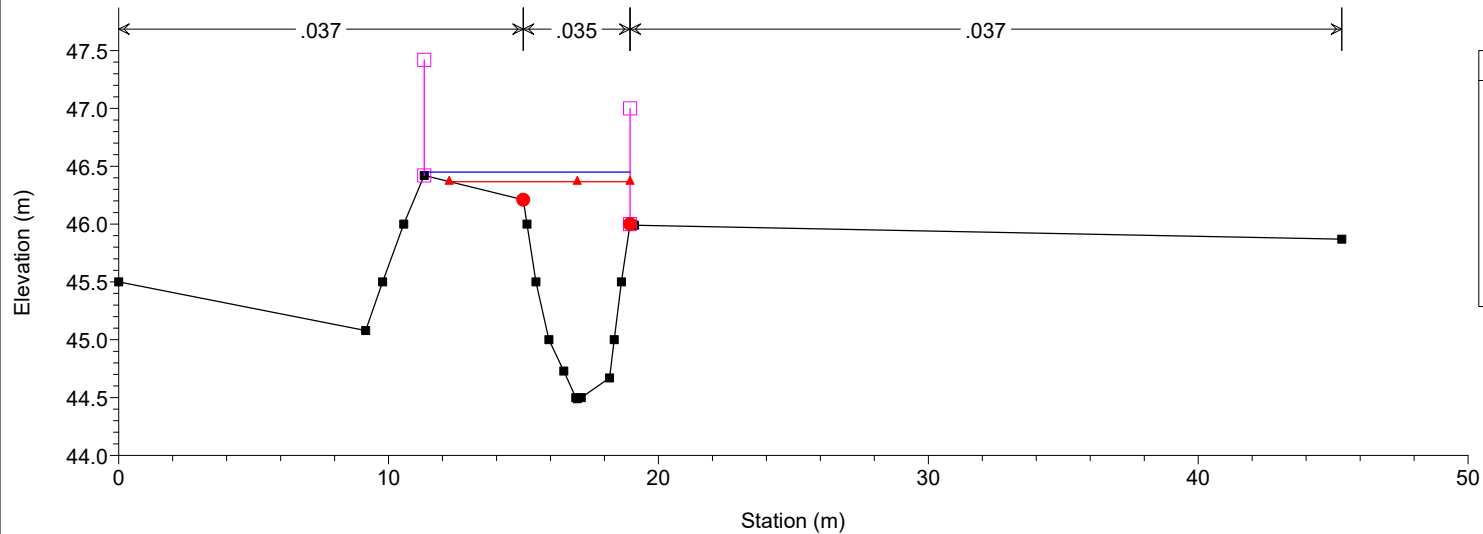
RS = 7 PGR0004\_d

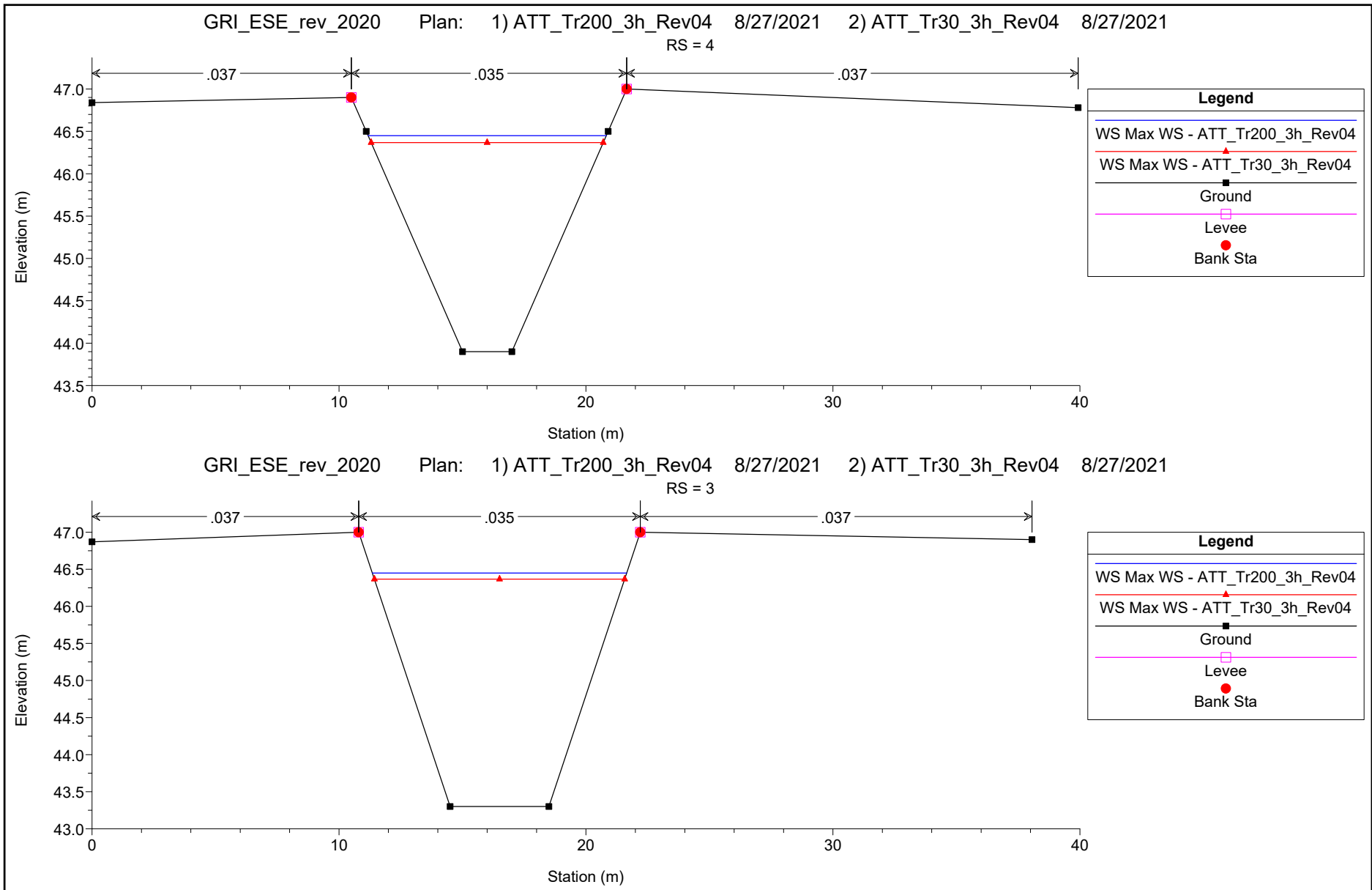


GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021  
RS = 6



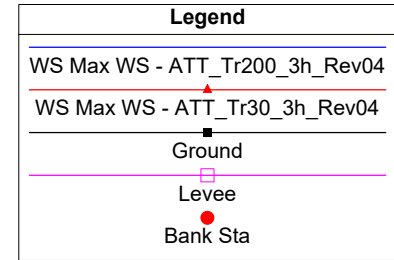
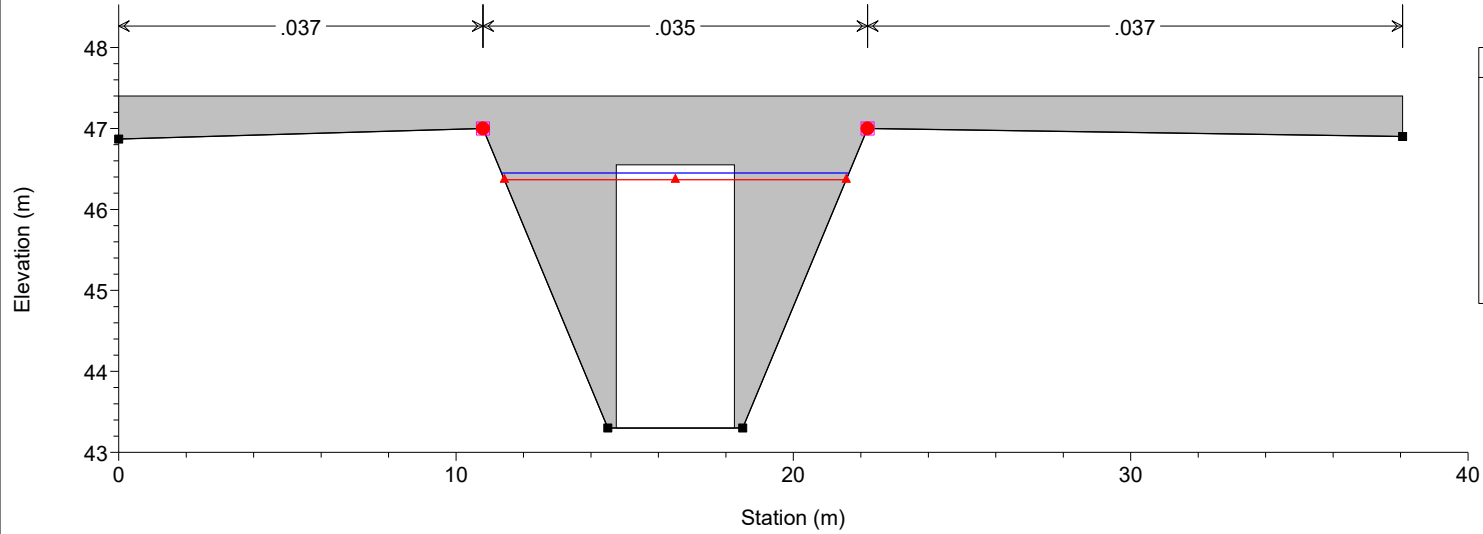
GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021  
RS = 5





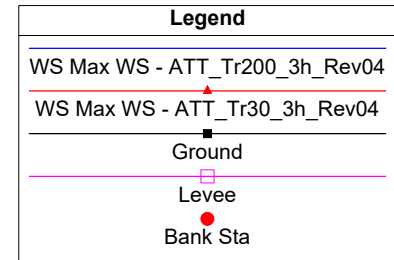
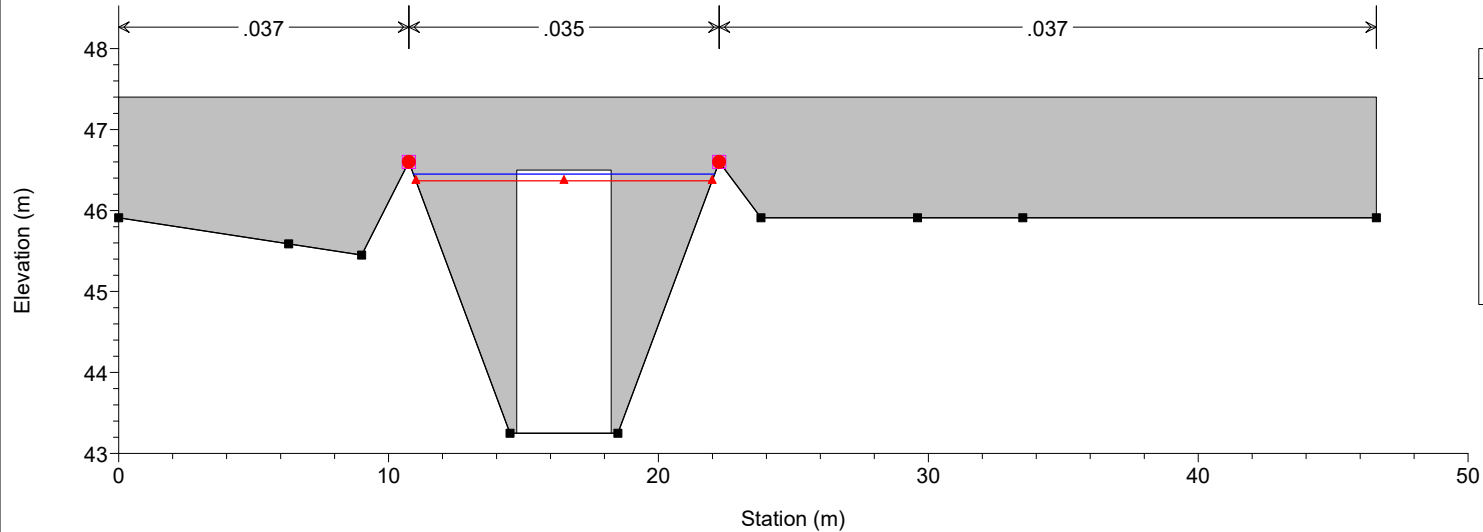
GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021

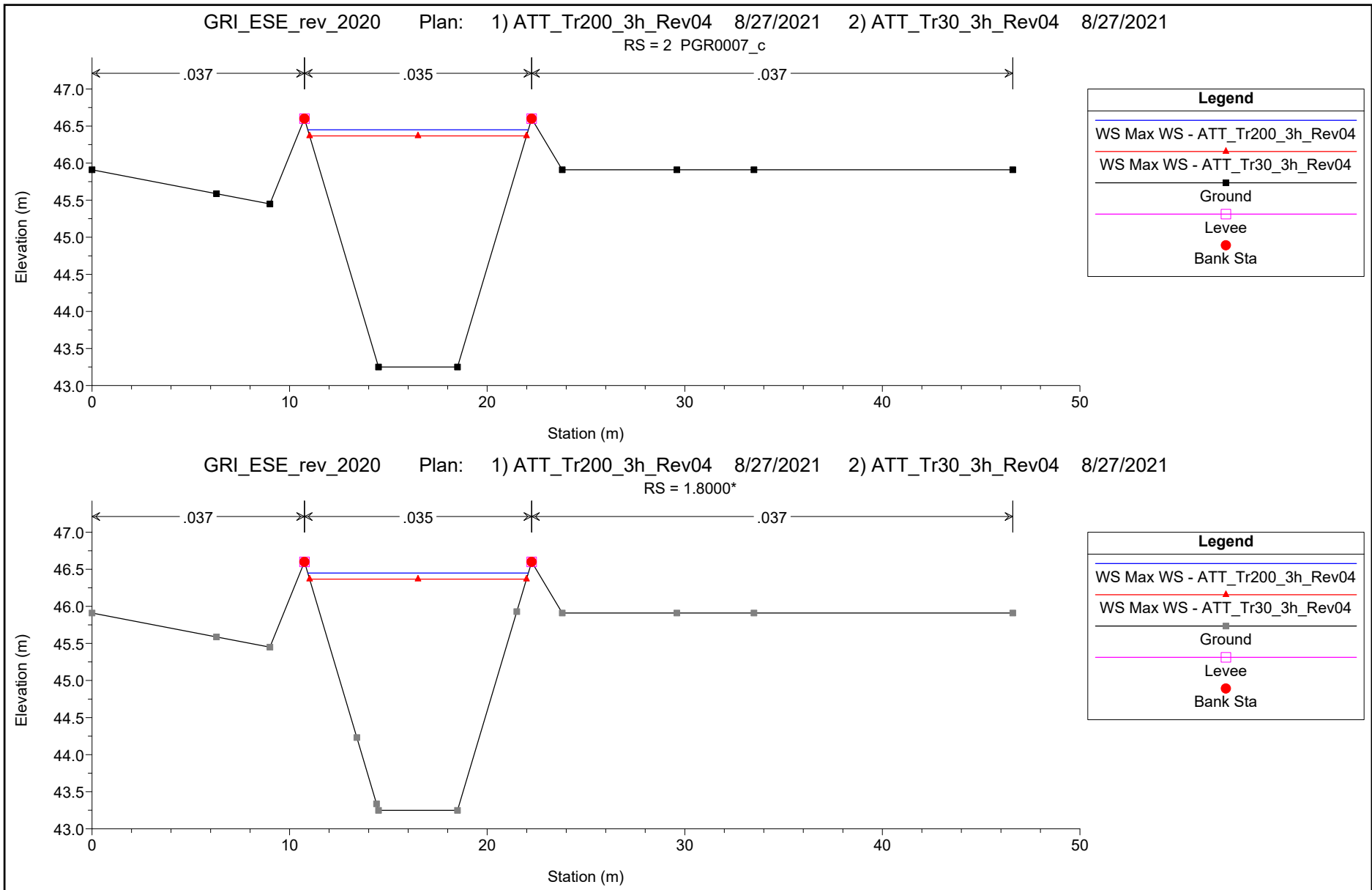
RS = 2.5 Culv Ponte sr429



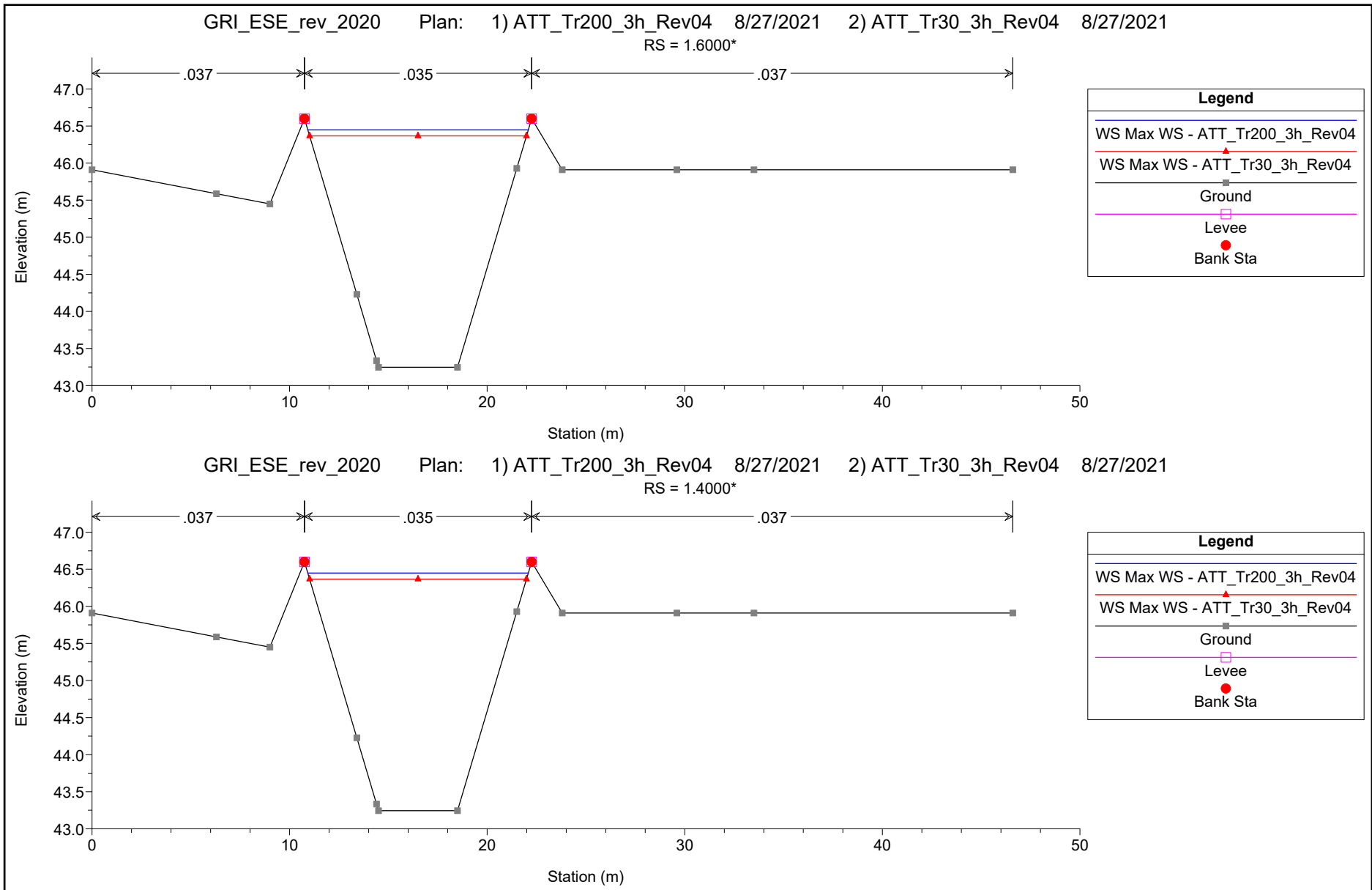
GRI\_ESE\_rev\_2020 Plan: 1) ATT\_Tr200\_3h\_Rev04 8/27/2021 2) ATT\_Tr30\_3h\_Rev04 8/27/2021

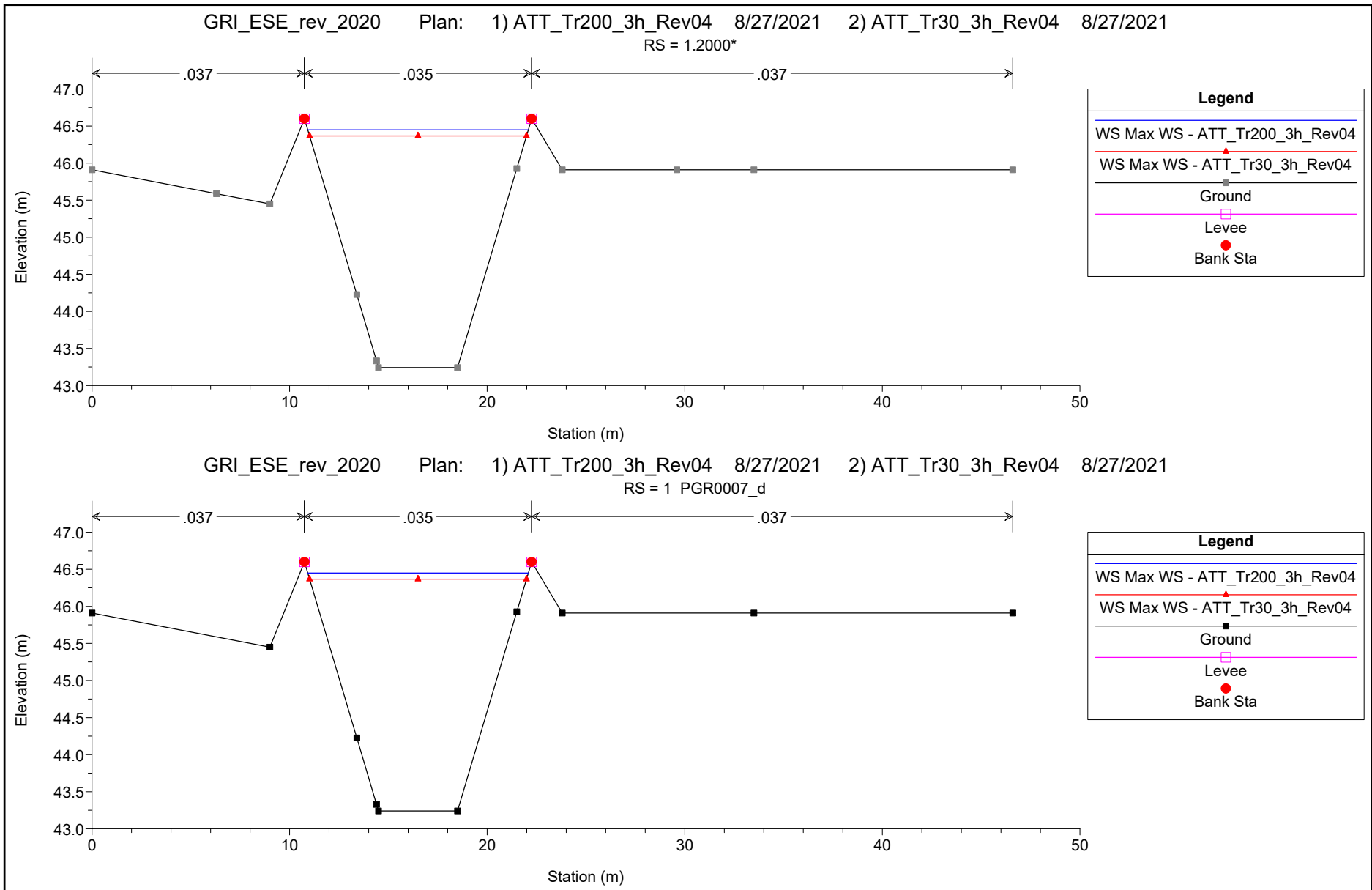
RS = 2.5 Culv Ponte sr429











HEC-RAS River: Grignana Reach: Grignana Profile: Max WS

Reach	River Sta	Profile	Plan	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
Grignana	27	Max WS	ATT_Tr200_3h_Rev04	12.51	49.83	51.81	51.80	52.30	0.021908	3.09	4.04	4.03	0.99
Grignana	27	Max WS	ATT_Tr30_3h_Rev04	9.14	49.83	51.63	51.61	52.02	0.020836	2.75	3.32	4.03	0.97
Grignana	26.8	Max WS	ATT_Tr200_3h_Rev04	12.51	49.77	51.71	51.68	52.15	0.016765	2.94	4.26	4.43	0.96
Grignana	26.8	Max WS	ATT_Tr30_3h_Rev04	9.14	49.77	51.54		51.89	0.016102	2.62	3.49	4.27	0.92
Grignana	26.7			Lat Struct									
Grignana	26	Max WS	ATT_Tr200_3h_Rev04	11.16	49.37	51.22		51.47	0.010328	2.24	4.98	5.79	0.77
Grignana	26	Max WS	ATT_Tr30_3h_Rev04	8.65	49.37	51.06		51.29	0.010910	2.11	4.10	5.56	0.78
Grignana	25	Max WS	ATT_Tr200_3h_Rev04	11.17	49.08	50.78		51.11	0.012280	2.53	4.42	4.94	0.85
Grignana	25	Max WS	ATT_Tr30_3h_Rev04	8.74	49.08	50.65		50.92	0.011066	2.31	3.79	4.45	0.80
Grignana	24.8			Lat Struct									
Grignana	24	Max WS	ATT_Tr200_3h_Rev04	10.47	48.66	50.20		50.38	0.006392	2.02	6.14	10.08	0.65
Grignana	24	Max WS	ATT_Tr30_3h_Rev04	8.48	48.66	50.11		50.28	0.006397	1.92	5.18	9.97	0.64
Grignana	23	Max WS	ATT_Tr200_3h_Rev04	7.01	48.44	49.80		50.08	0.011728	2.35	2.99	2.87	0.73
Grignana	23	Max WS	ATT_Tr30_3h_Rev04	6.06	48.44	49.71		49.96	0.011321	2.23	2.72	2.87	0.73
Grignana	22	Max WS	ATT_Tr200_3h_Rev04	5.81	47.85	49.00		49.22	0.010619	2.09	2.78	3.34	0.73
Grignana	22	Max WS	ATT_Tr30_3h_Rev04	5.04	47.85	48.92		49.12	0.010374	1.99	2.54	3.34	0.73
Grignana	21	Max WS	ATT_Tr200_3h_Rev04	5.10	47.46	48.52		48.70	0.008958	1.90	2.69	3.52	0.69
Grignana	21	Max WS	ATT_Tr30_3h_Rev04	4.45	47.46	48.46		48.62	0.008635	1.80	2.48	3.52	0.68
Grignana	20	Max WS	ATT_Tr200_3h_Rev04	4.98	46.92	48.04		48.27	0.011728	2.13	2.34	2.99	0.77
Grignana	20	Max WS	ATT_Tr30_3h_Rev04	4.51	46.92	47.99		48.21	0.011875	2.07	2.17	2.99	0.78
Grignana	19	Max WS	ATT_Tr200_3h_Rev04	5.60	46.33	47.68		47.76	0.002955	1.28	4.36	4.64	0.42
Grignana	19	Max WS	ATT_Tr30_3h_Rev04	5.23	46.33	47.60		47.69	0.003283	1.30	4.02	4.64	0.45
Grignana	18	Max WS	ATT_Tr200_3h_Rev04	7.19	45.68	47.36		47.48	0.003583	1.52	4.74	3.96	0.44
Grignana	18	Max WS	ATT_Tr30_3h_Rev04	6.55	45.68	47.28		47.39	0.003580	1.48	4.44	3.96	0.45
Grignana	17	Max WS	ATT_Tr200_3h_Rev04	7.38	45.51	47.20		47.32	0.003959	1.58	4.67	4.13	0.47
Grignana	17	Max WS	ATT_Tr30_3h_Rev04	6.83	45.51	47.10		47.23	0.004352	1.60	4.28	4.13	0.50
Grignana	16	Max WS	ATT_Tr200_3h_Rev04	7.14	45.38	47.02		47.11	0.002546	1.33	5.35	4.22	0.38



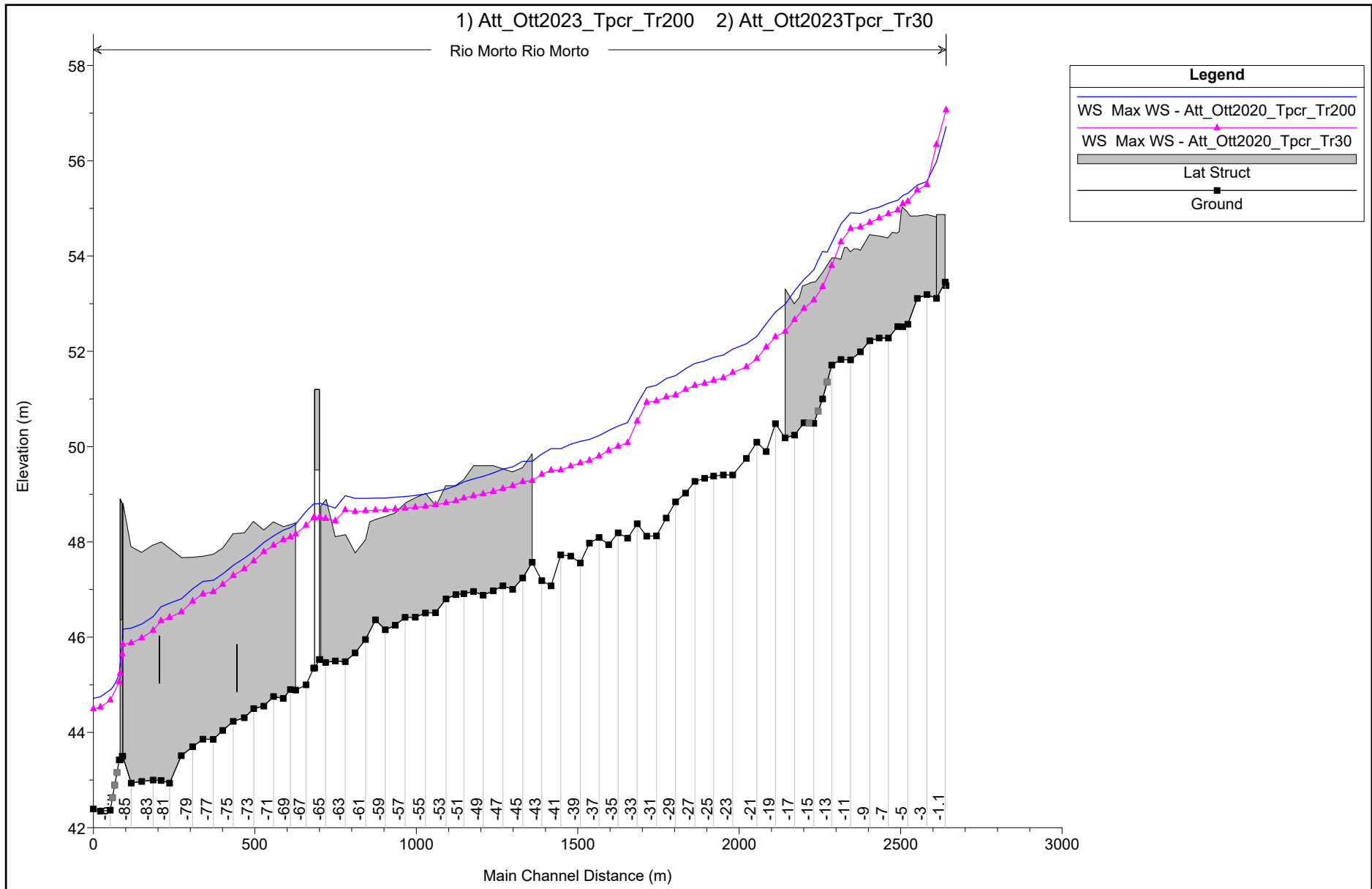
HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	5	Max WS	ATT_Tr200_3h_Rev04	0.06	44.49	46.45		46.45	0.000000	0.01	6.21	7.63	0.00
Grignana	5	Max WS	ATT_Tr30_3h_Rev04	0.04	44.49	46.37		46.37	0.000000	0.01	5.61	6.70	0.00
Grignana	4	Max WS	ATT_Tr200_3h_Rev04	0.00	43.90	46.45		46.45	0.000000	0.00	14.85	9.65	0.00
Grignana	4	Max WS	ATT_Tr30_3h_Rev04	0.00	43.90	46.37		46.37	0.000000	0.00	14.06	9.40	0.00
Grignana	3	Max WS	ATT_Tr200_3h_Rev04	0.00	43.30	46.45		46.45	0.000000	0.00	22.52	10.30	0.00
Grignana	3	Max WS	ATT_Tr30_3h_Rev04	0.00	43.30	46.37		46.37	0.000000	0.00	21.68	10.13	0.00
Grignana	2.5			Culvert									
Grignana	2	Max WS	ATT_Tr200_3h_Rev04	0.00	43.25	46.45		46.45	0.000000	0.00	24.26	11.16	0.00
Grignana	2	Max WS	ATT_Tr30_3h_Rev04	0.00	43.25	46.37		46.37	0.000000	0.00	23.35	10.98	0.00
Grignana	1.8000*	Max WS	ATT_Tr200_3h_Rev04	0.00	43.25	46.45		46.45	0.000000	0.00	24.27	11.16	0.00
Grignana	1.8000*	Max WS	ATT_Tr30_3h_Rev04	0.00	43.25	46.37		46.37	0.000000	0.00	23.36	10.98	0.00
Grignana	1.6000*	Max WS	ATT_Tr200_3h_Rev04	0.00	43.25	46.45		46.45	0.000000	0.00	24.29	11.16	0.00
Grignana	1.6000*	Max WS	ATT_Tr30_3h_Rev04	0.00	43.25	46.37		46.37	0.000000	0.00	23.38	10.98	0.00
Grignana	1.4000*	Max WS	ATT_Tr200_3h_Rev04	0.00	43.24	46.45		46.45	0.000000	0.00	24.30	11.16	0.00
Grignana	1.4000*	Max WS	ATT_Tr30_3h_Rev04	0.00	43.24	46.37		46.37	0.000000	0.00	23.39	10.98	0.00
Grignana	1.2000*	Max WS	ATT_Tr200_3h_Rev04	0.00	43.24	46.45		46.45	0.000000	0.00	24.32	11.16	0.00
Grignana	1.2000*	Max WS	ATT_Tr30_3h_Rev04	0.00	43.24	46.37		46.37	0.000000	0.00	23.41	10.98	0.00
Grignana	1	Max WS	ATT_Tr200_3h_Rev04	0.00	43.24	46.45	43.25	46.45	0.000000	0.00	24.33	11.16	0.00
Grignana	1	Max WS	ATT_Tr30_3h_Rev04	0.00	43.24	46.37	43.25	46.37	0.000000	0.00	23.42	10.98	0.00

Verifiche Idrauliche

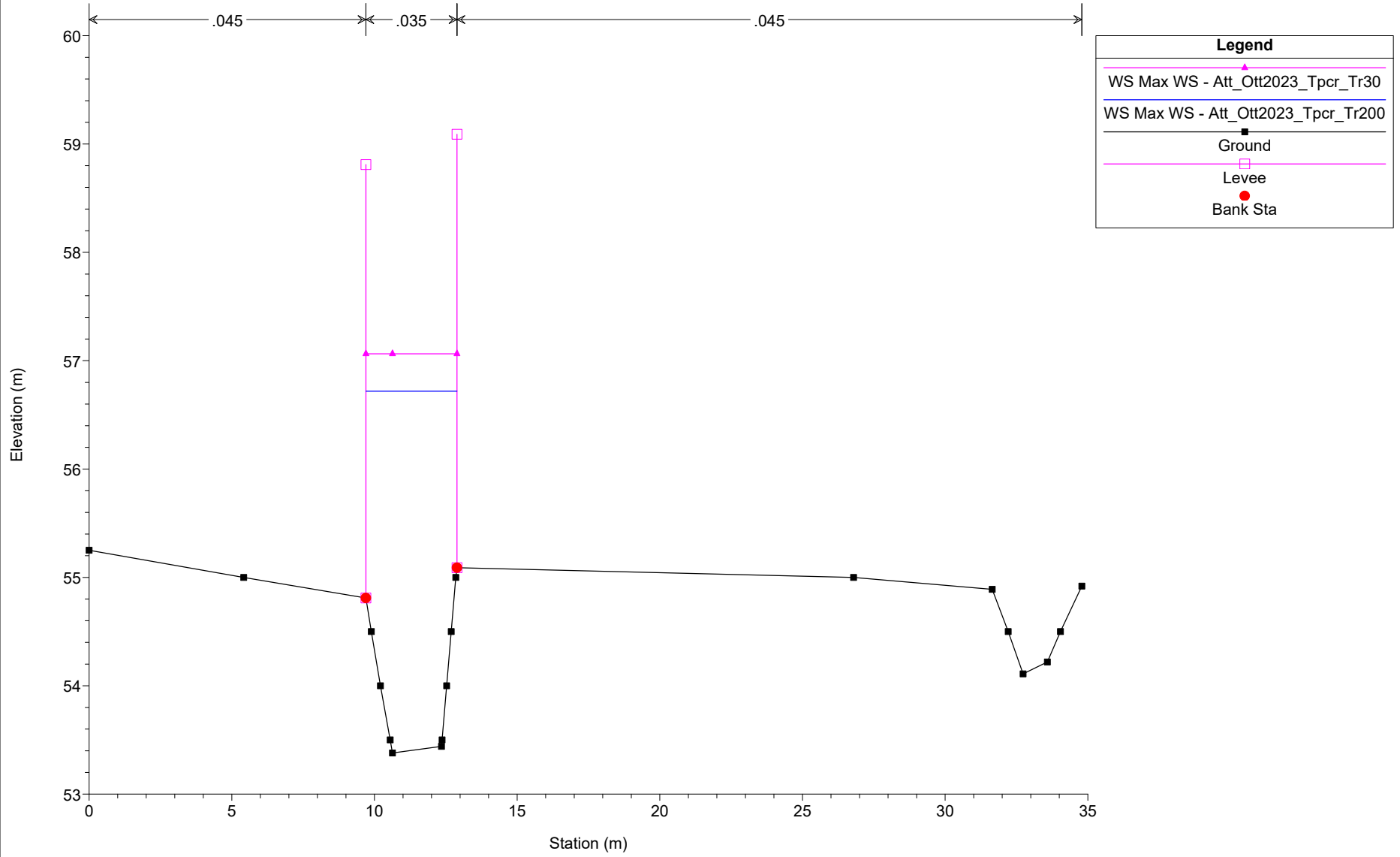
Rio Morto

Stato attuale –  $Tr=200$  e  $Tr=30$  anni



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

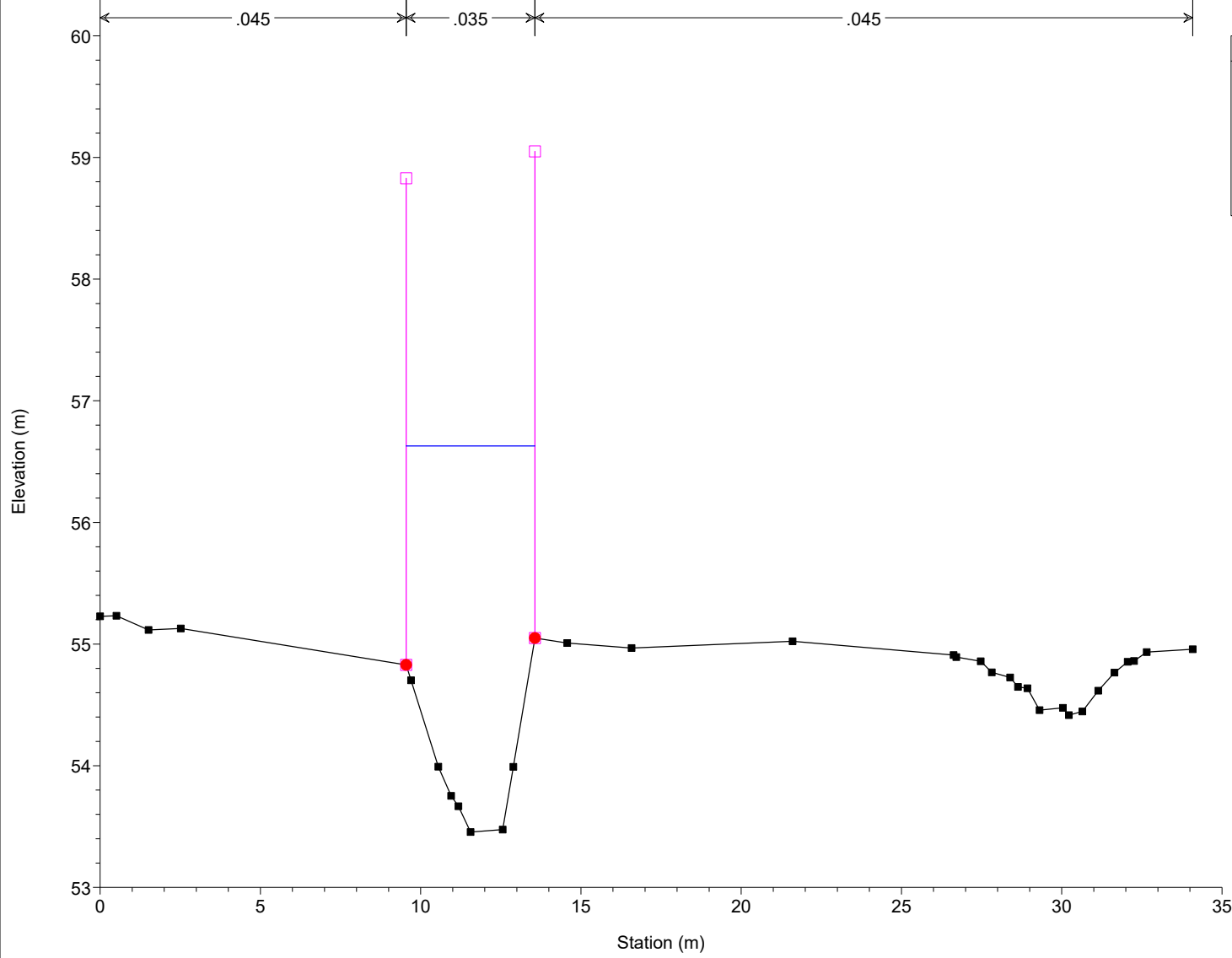
River = Rio Morto Reach = Rio Morto RS = -1





1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -1.1 ausiliaria monte

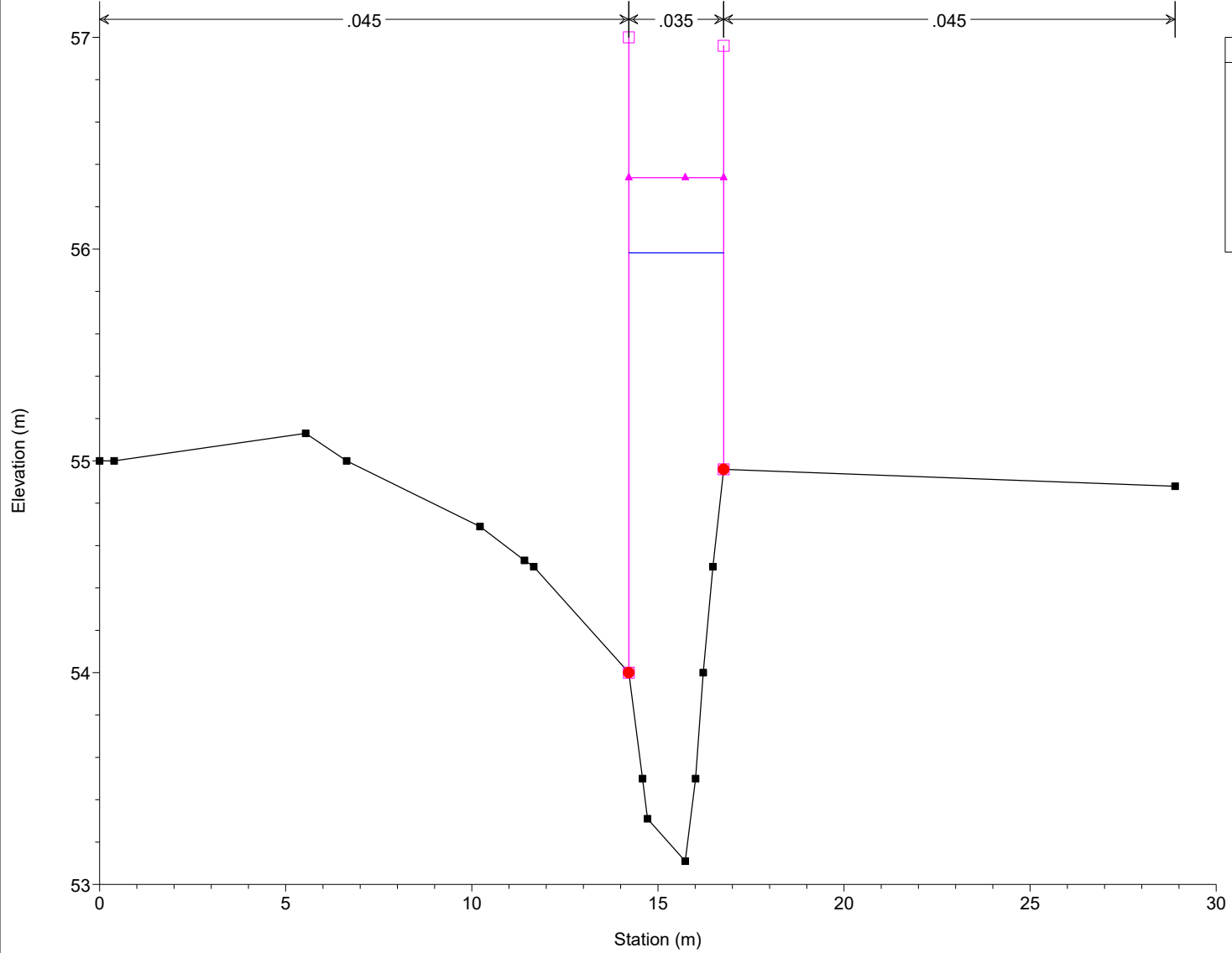


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- Ground
- Levee
- Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -2

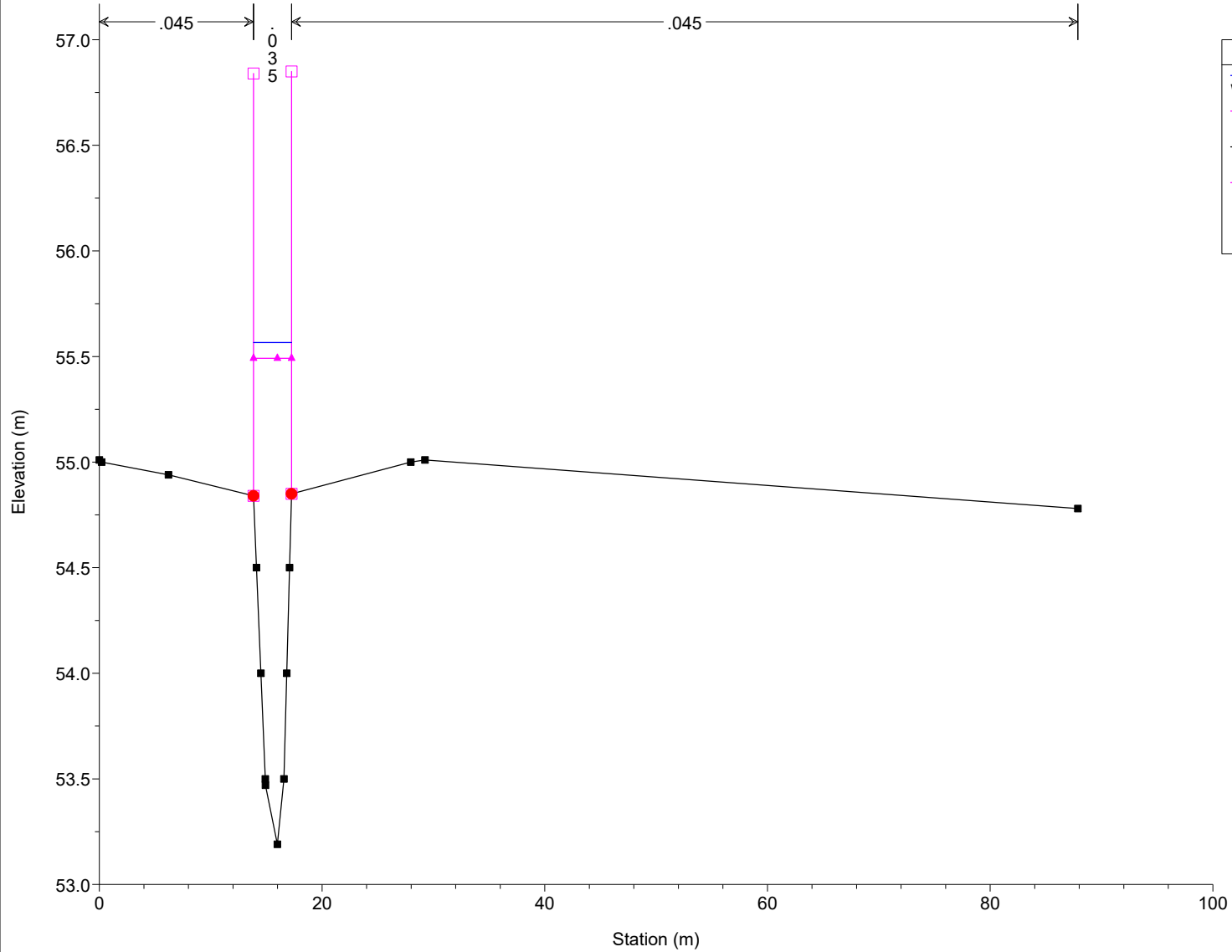


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr30
- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- Ground
- Levee
- Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

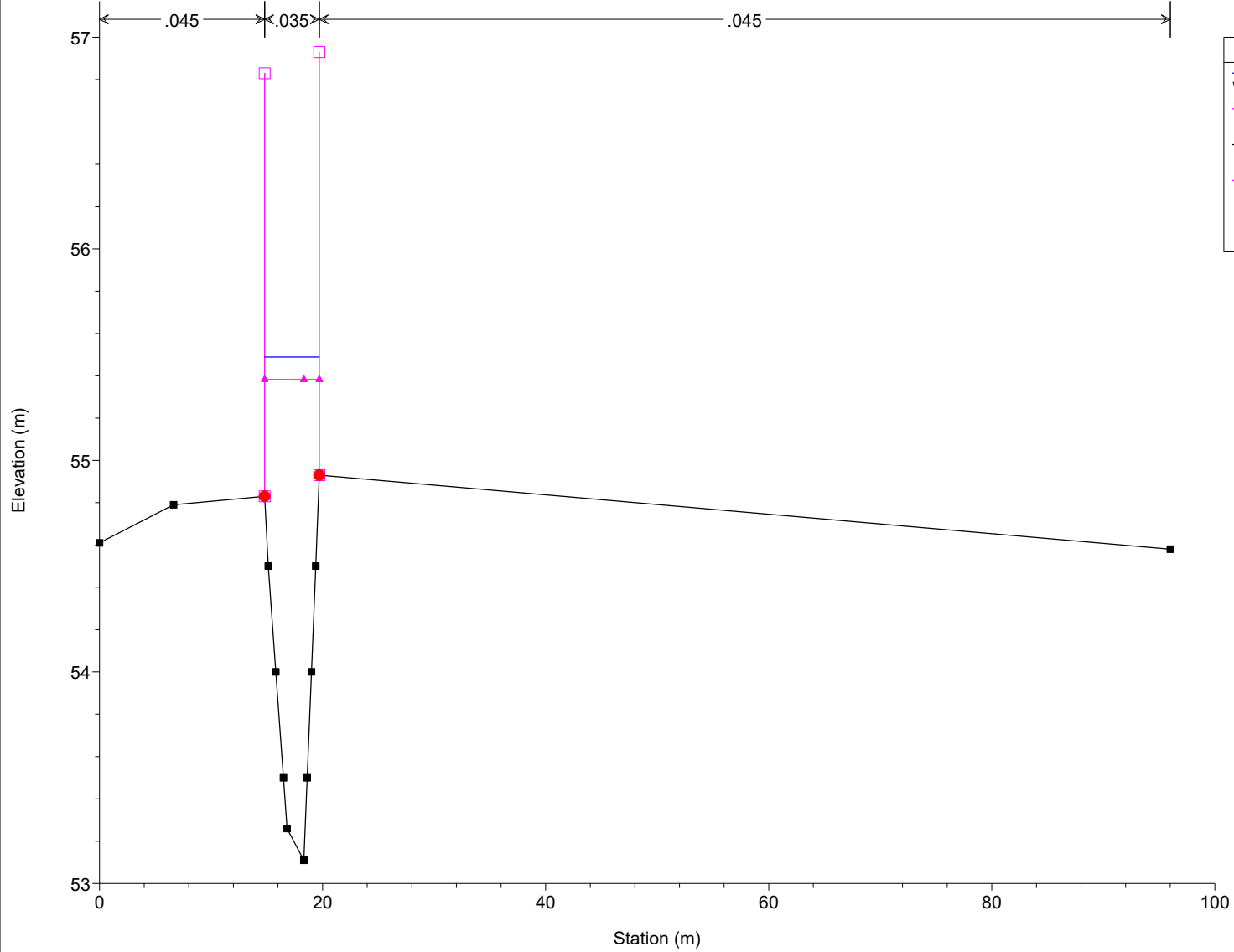
River = Rio Morto Reach = Rio Morto RS = -3



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

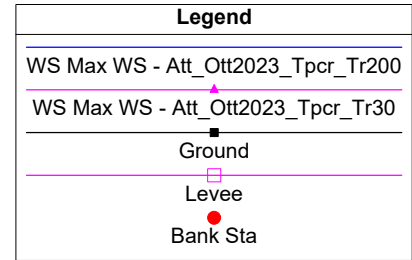
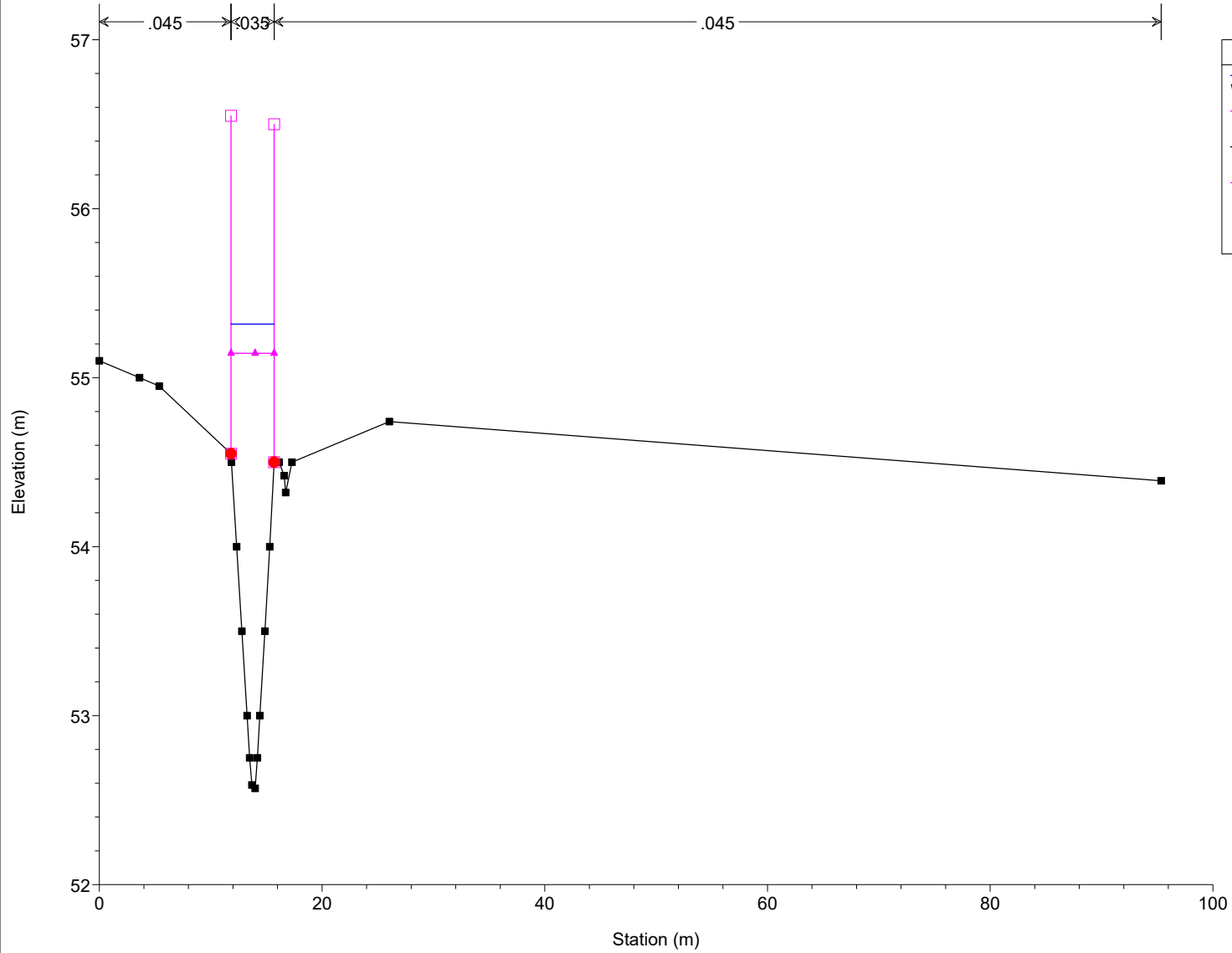
River = Rio Morto Reach = Rio Morto RS = -4



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

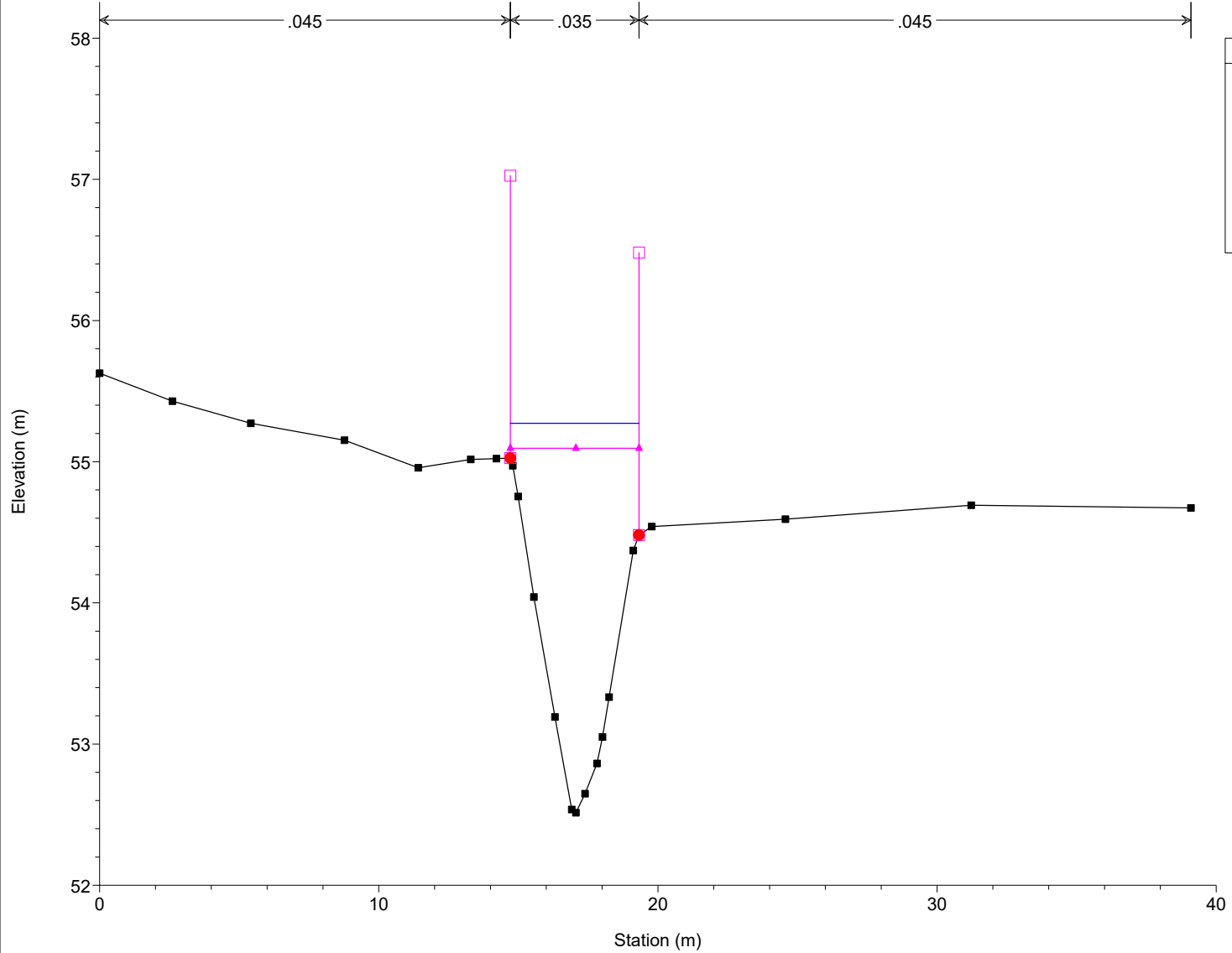
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -5



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

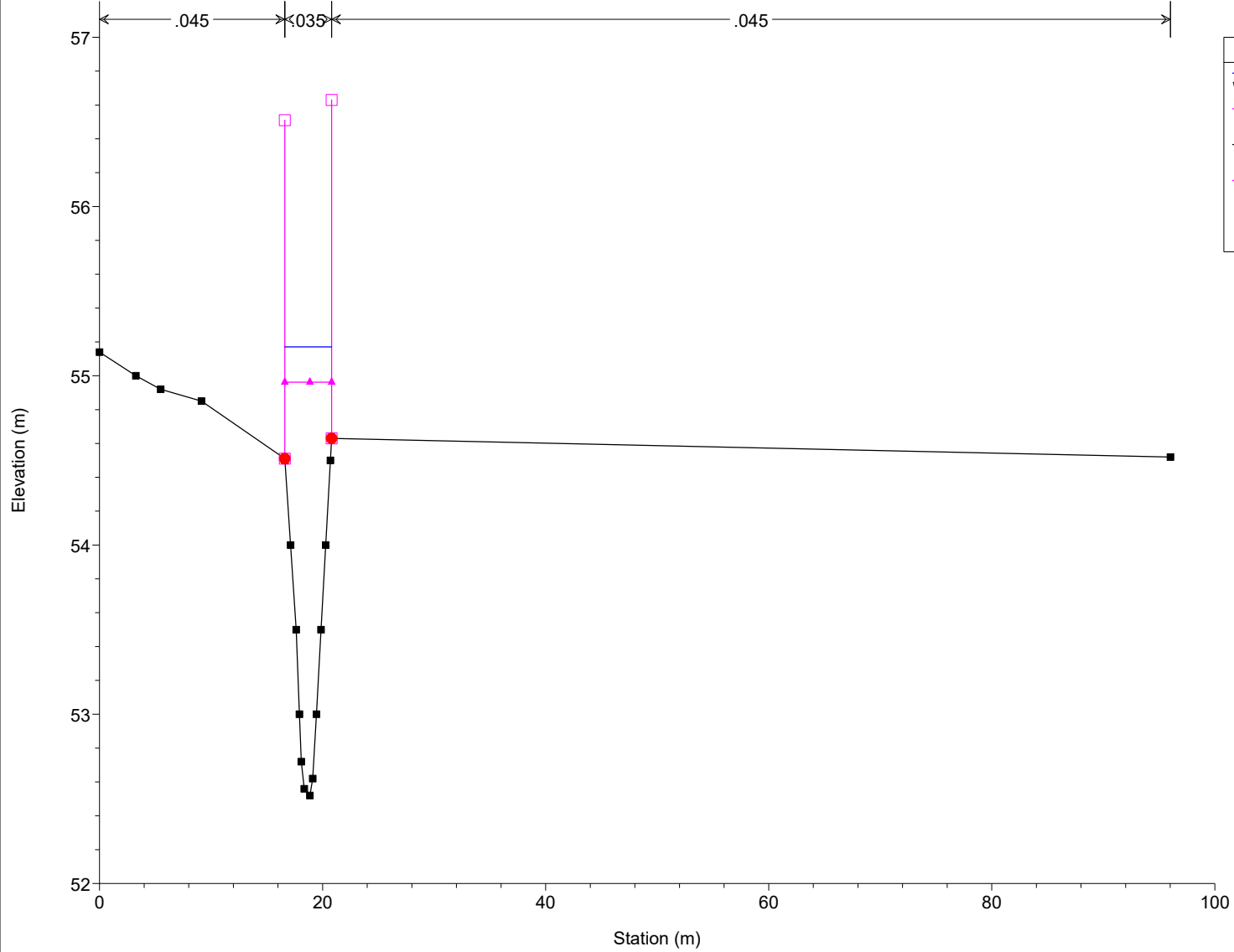
River = Rio Morto Reach = Rio Morto RS = -5.5000



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

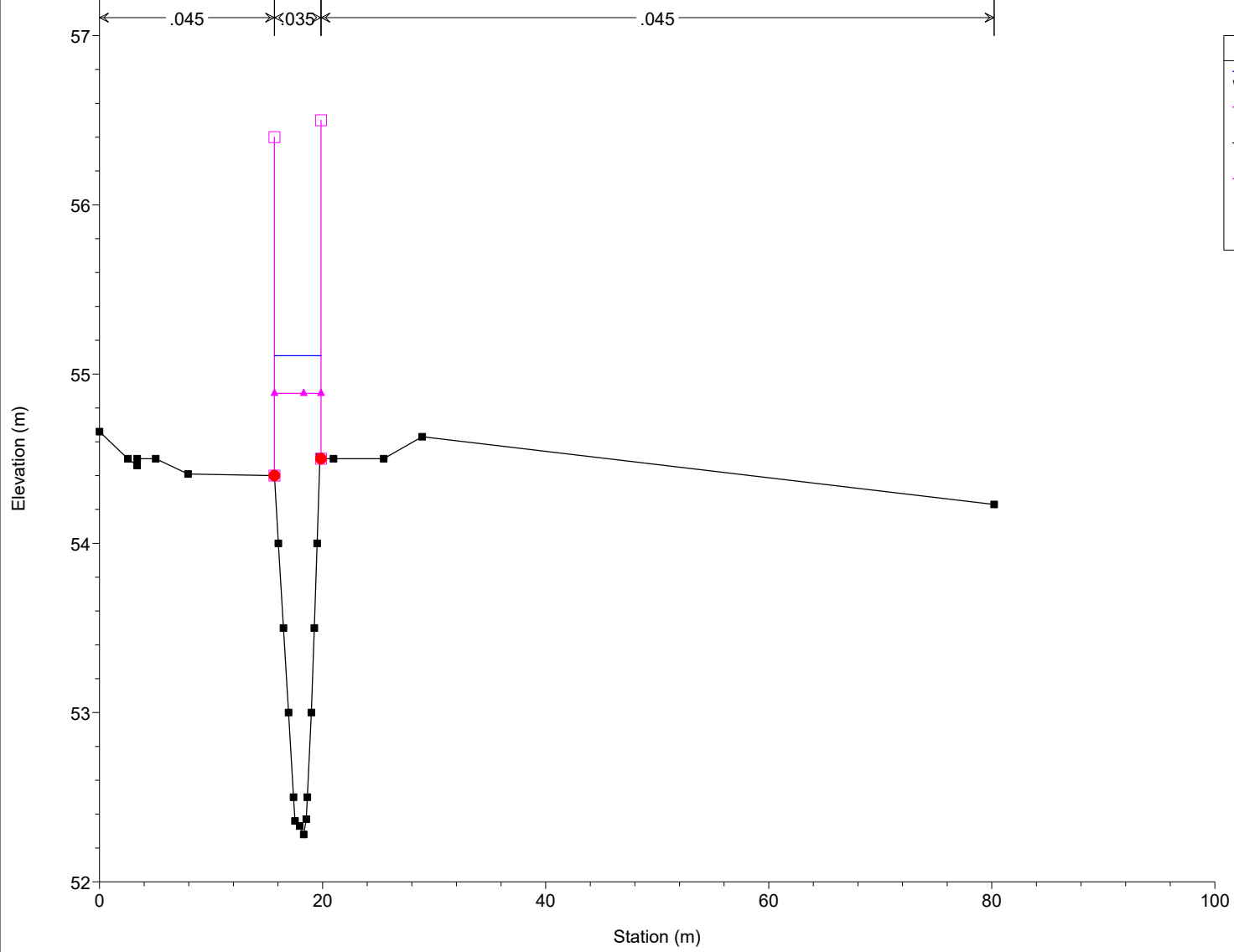
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -6



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -7

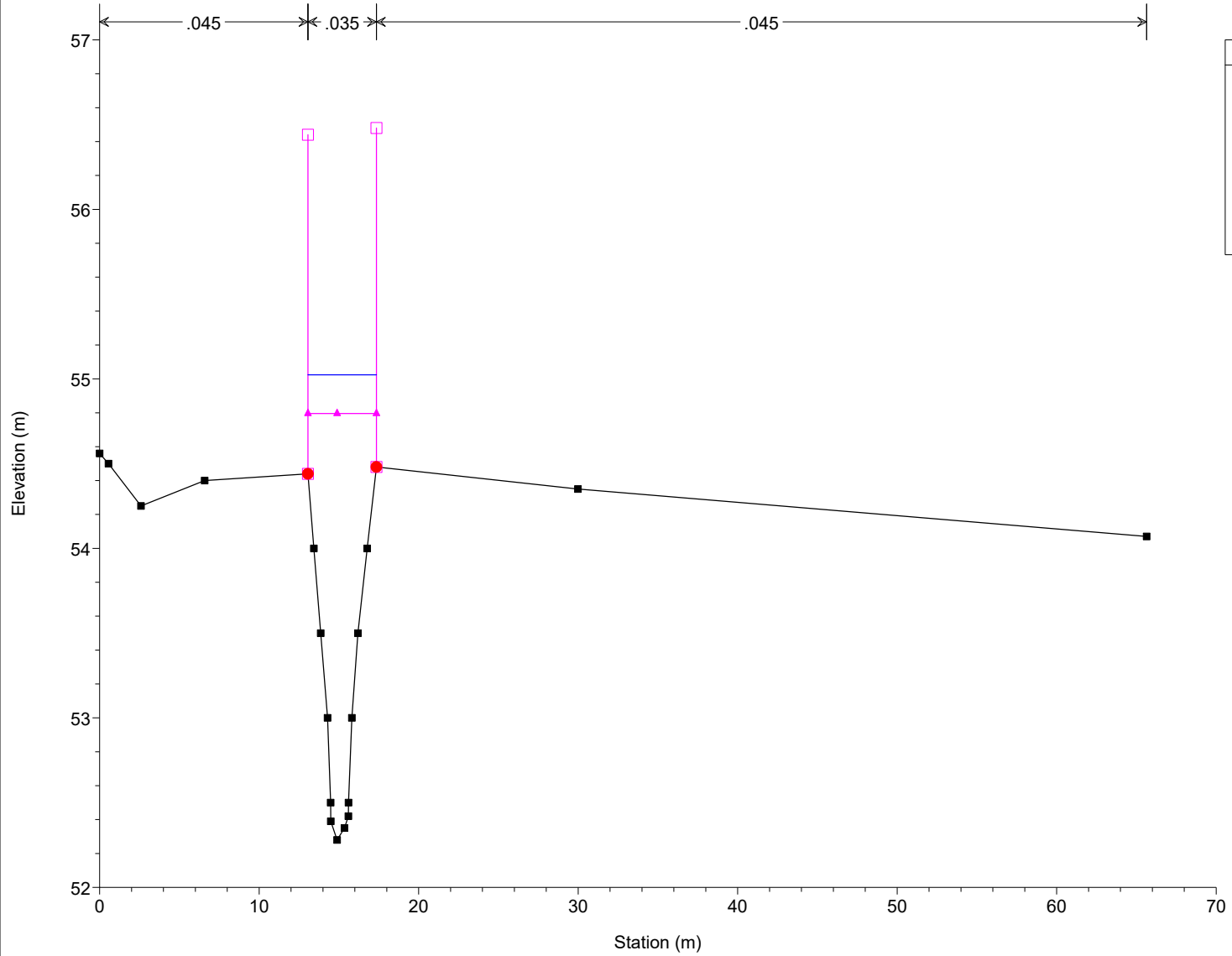


Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●



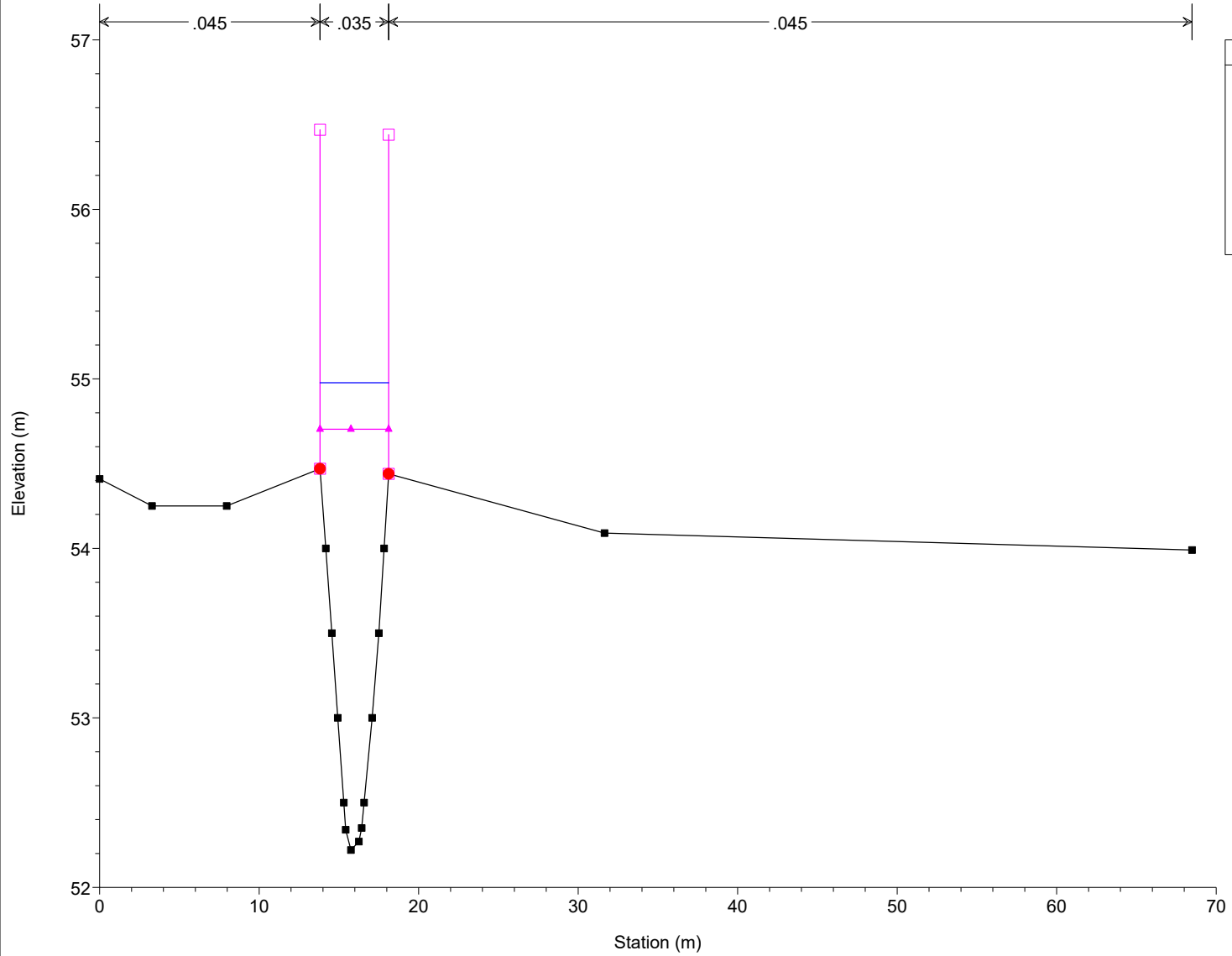
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -8



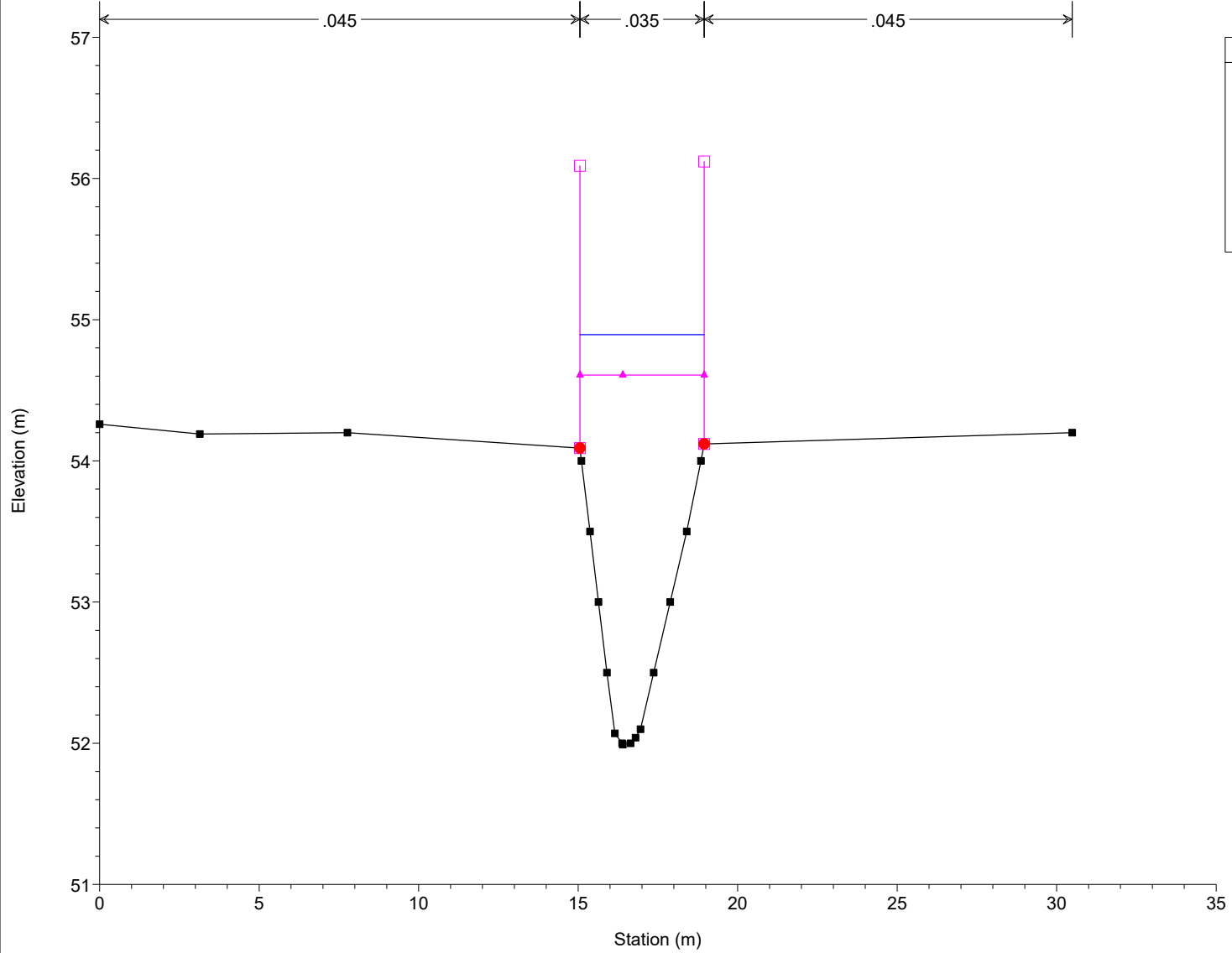
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -9



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

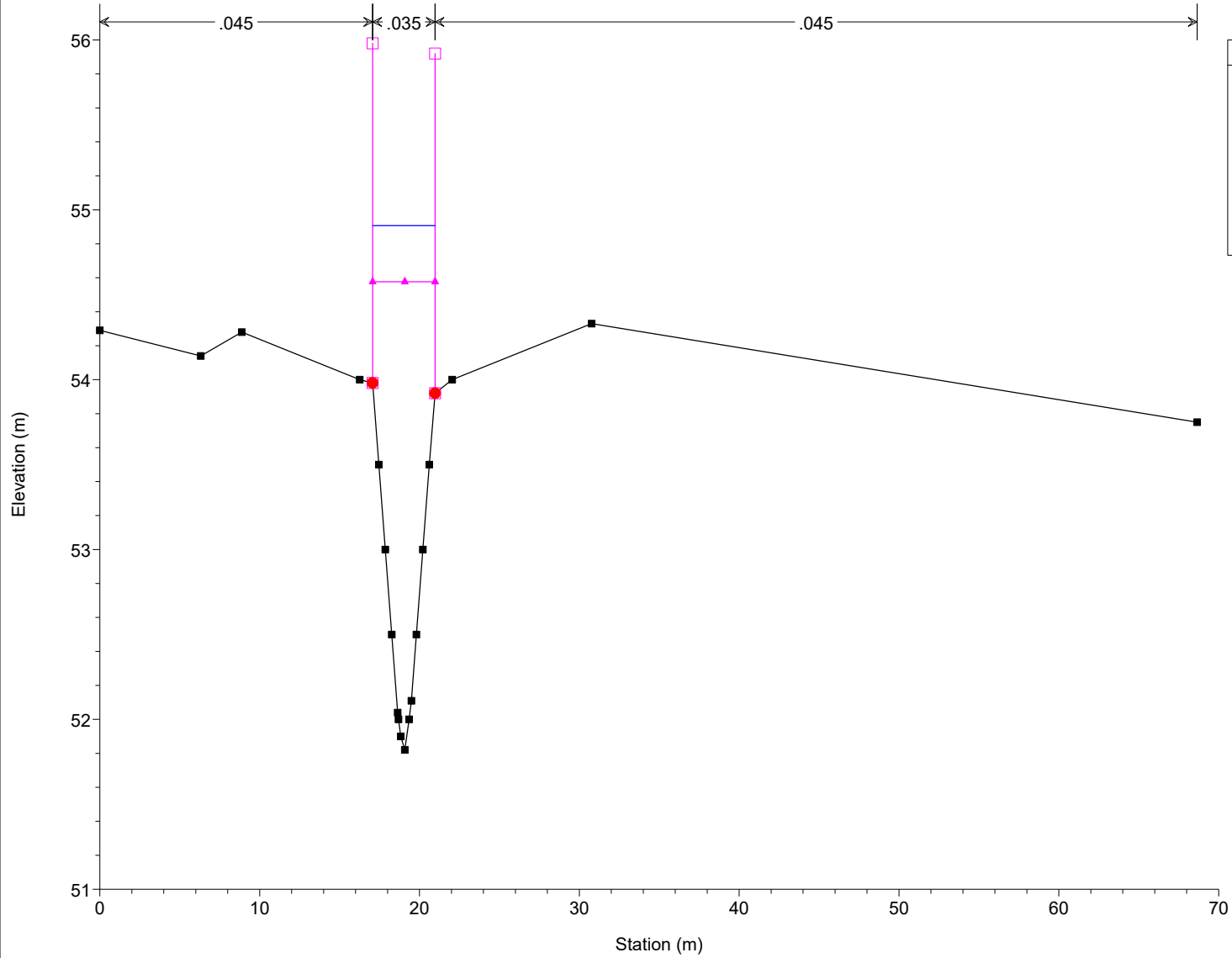
River = Rio Morto Reach = Rio Morto RS = -10



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

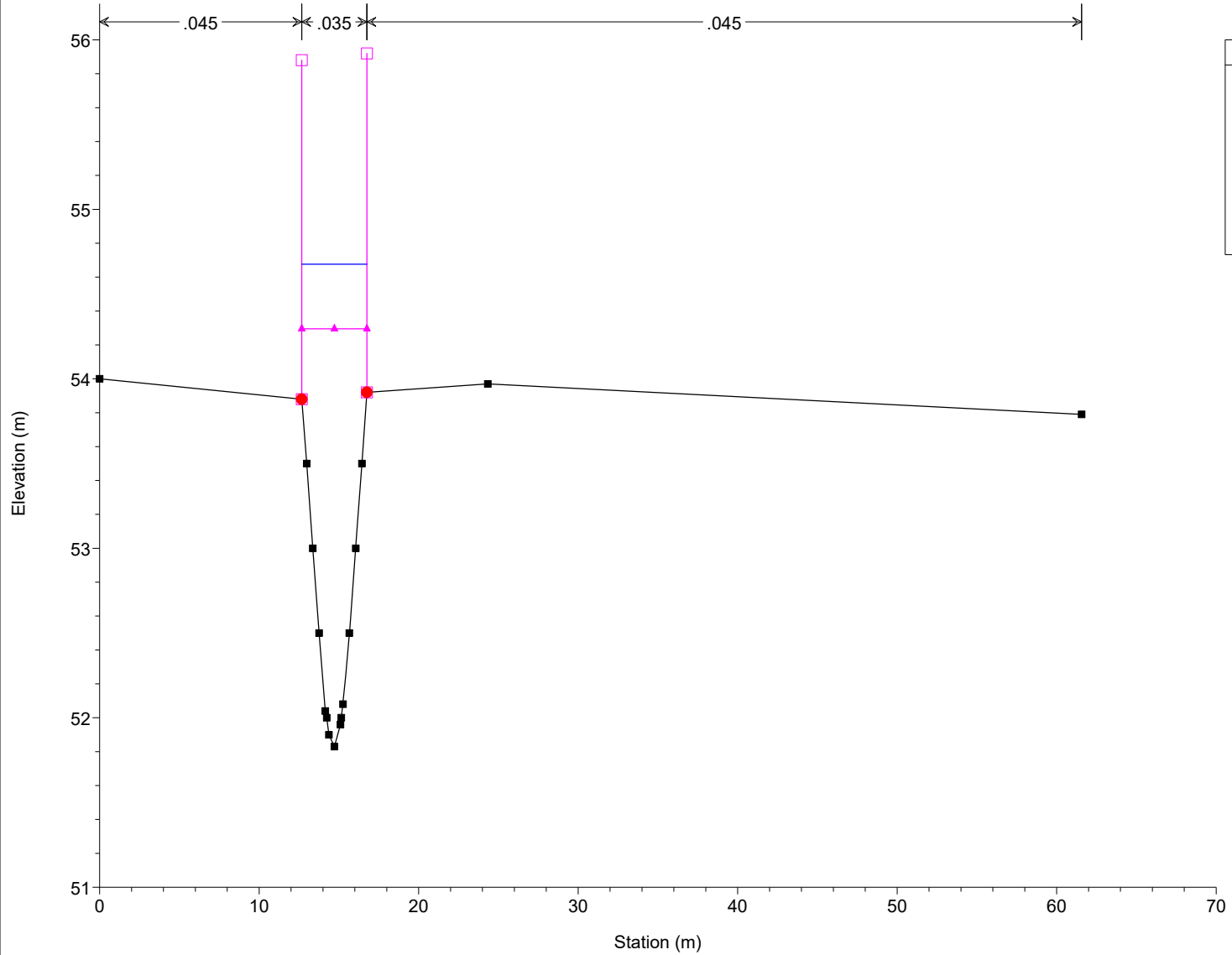
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -11



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -12

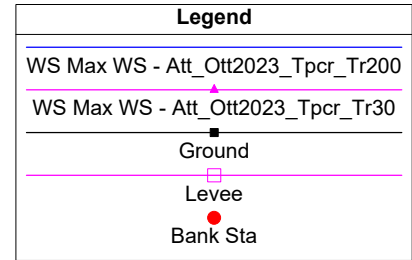
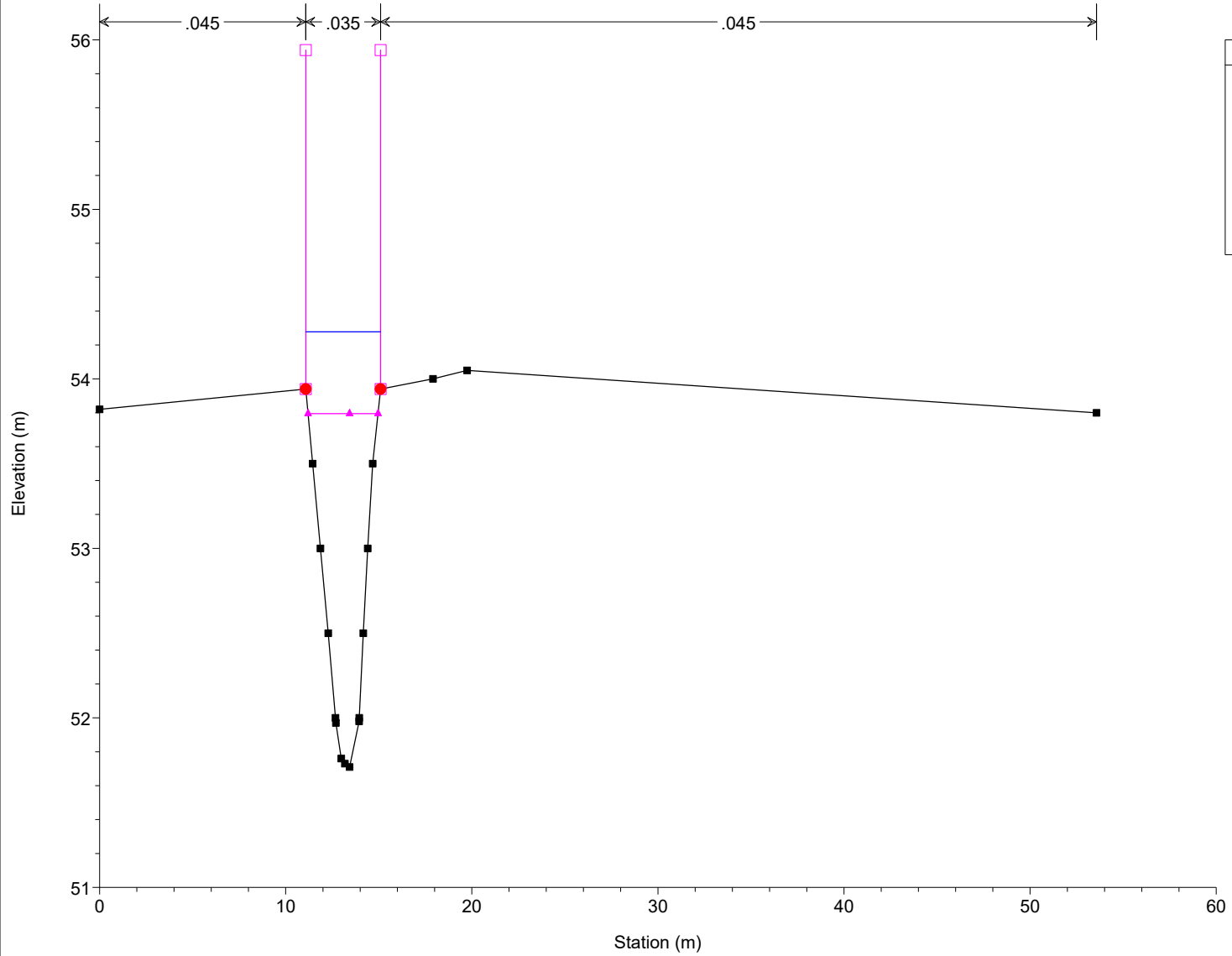


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- WS Max WS - Att\_Ott2023\_Tpcr\_Tr30
- Ground
- Levee
- Bank Sta

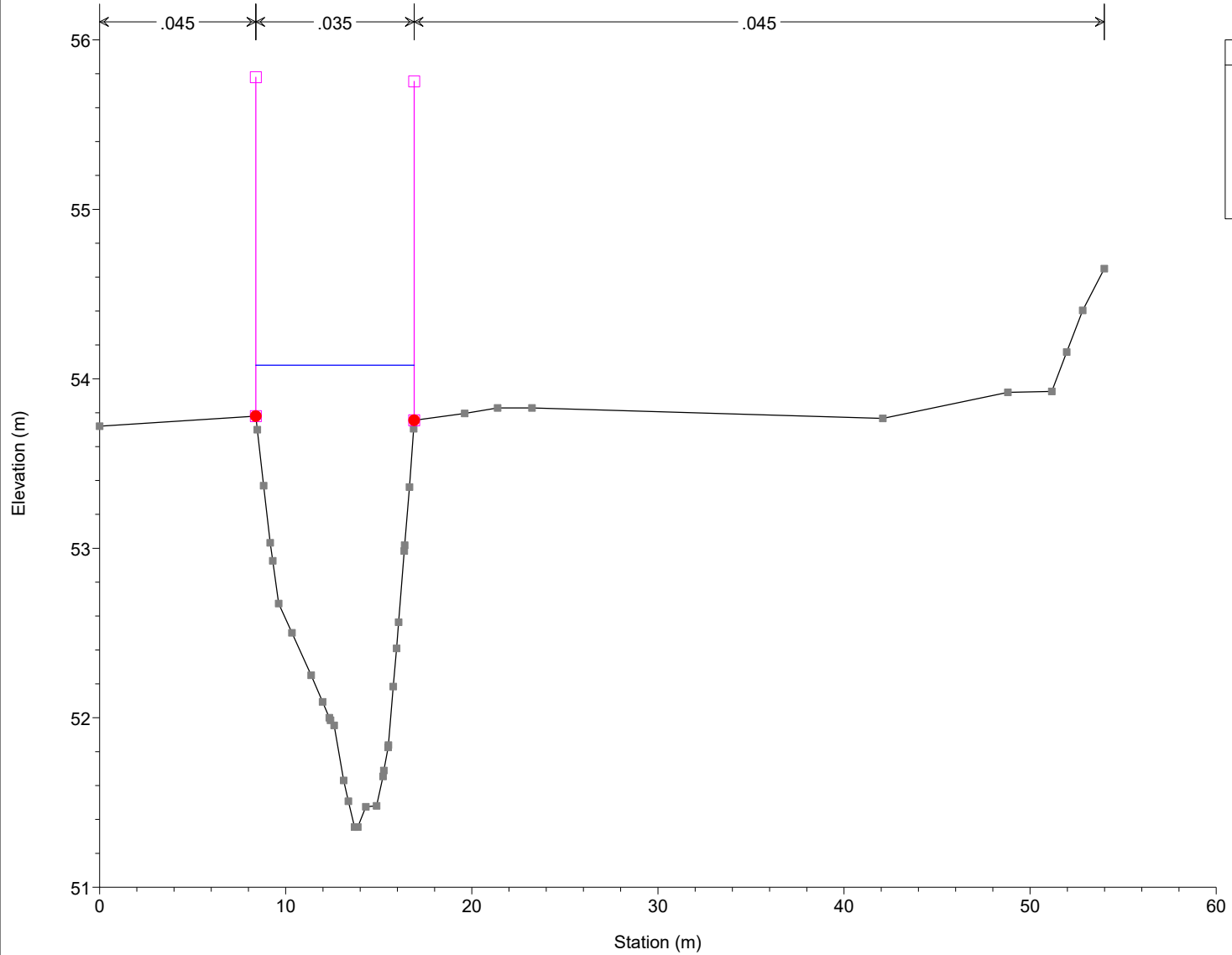
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -13



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

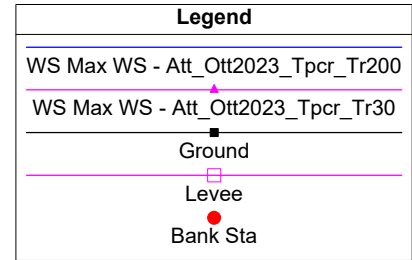
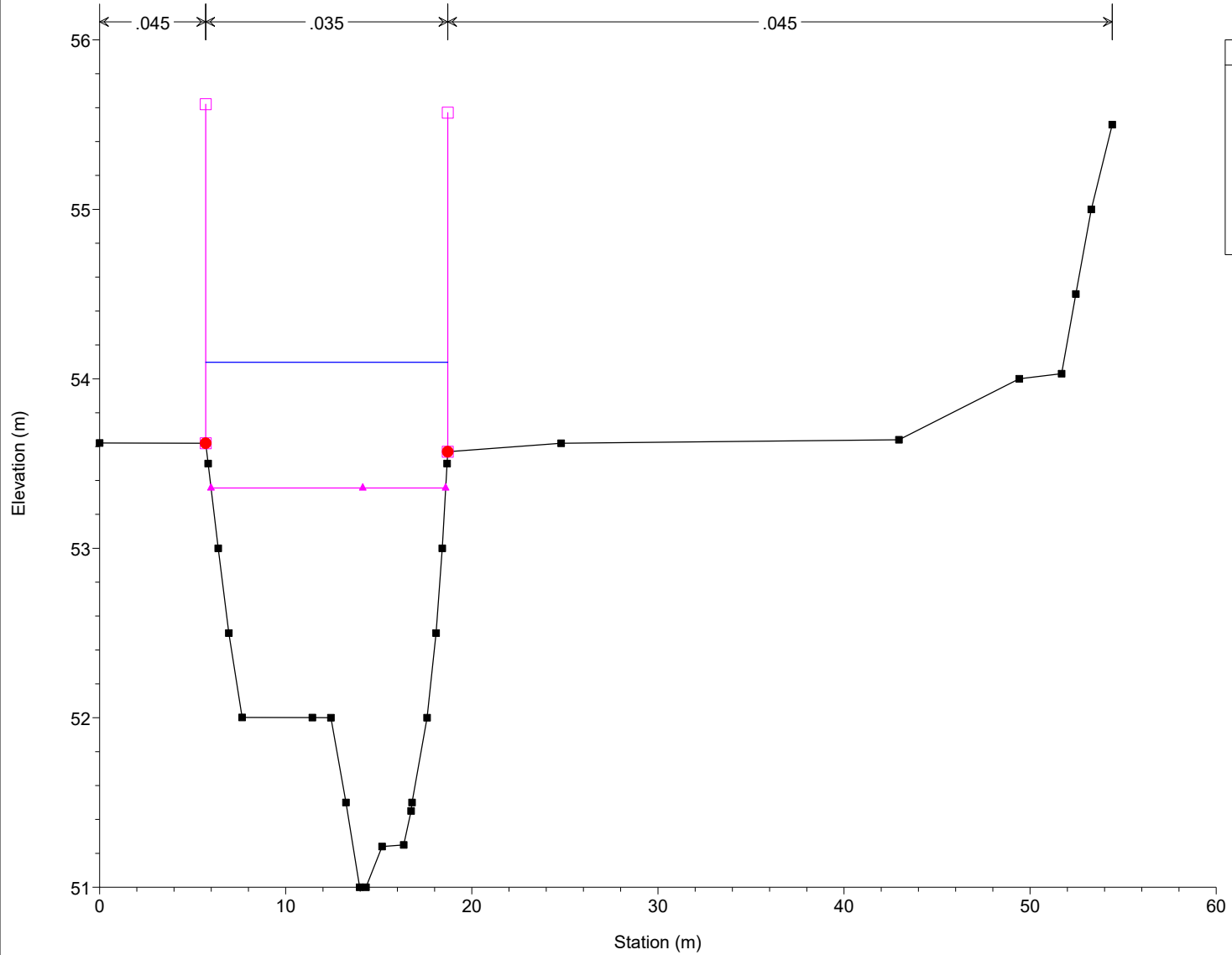
River = Rio Morto Reach = Rio Morto RS = -13.500\*



Legend	
WS Max	WS - Att_Ott2023_Tpcr_Tr200
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

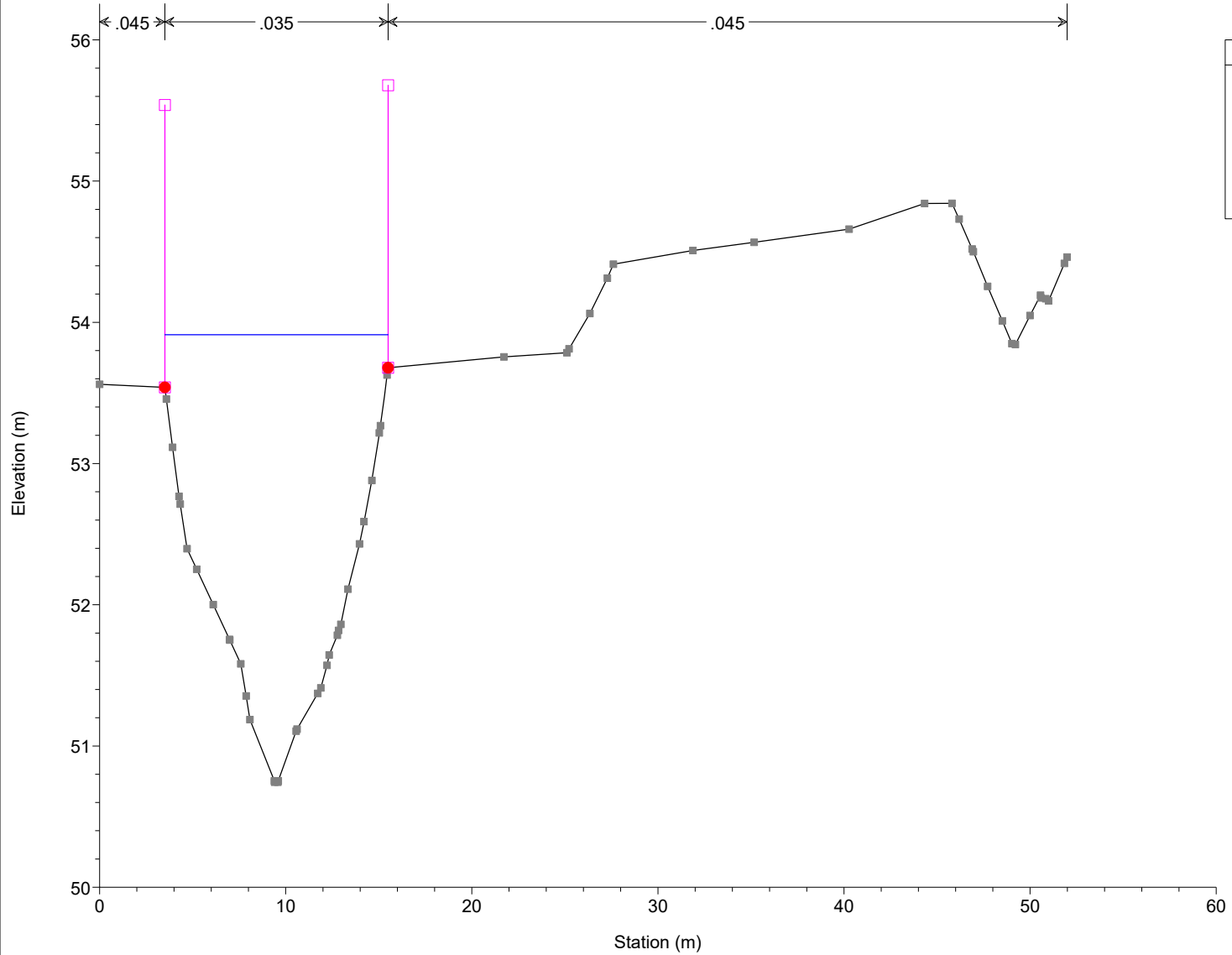
River = Rio Morto Reach = Rio Morto RS = -14





1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

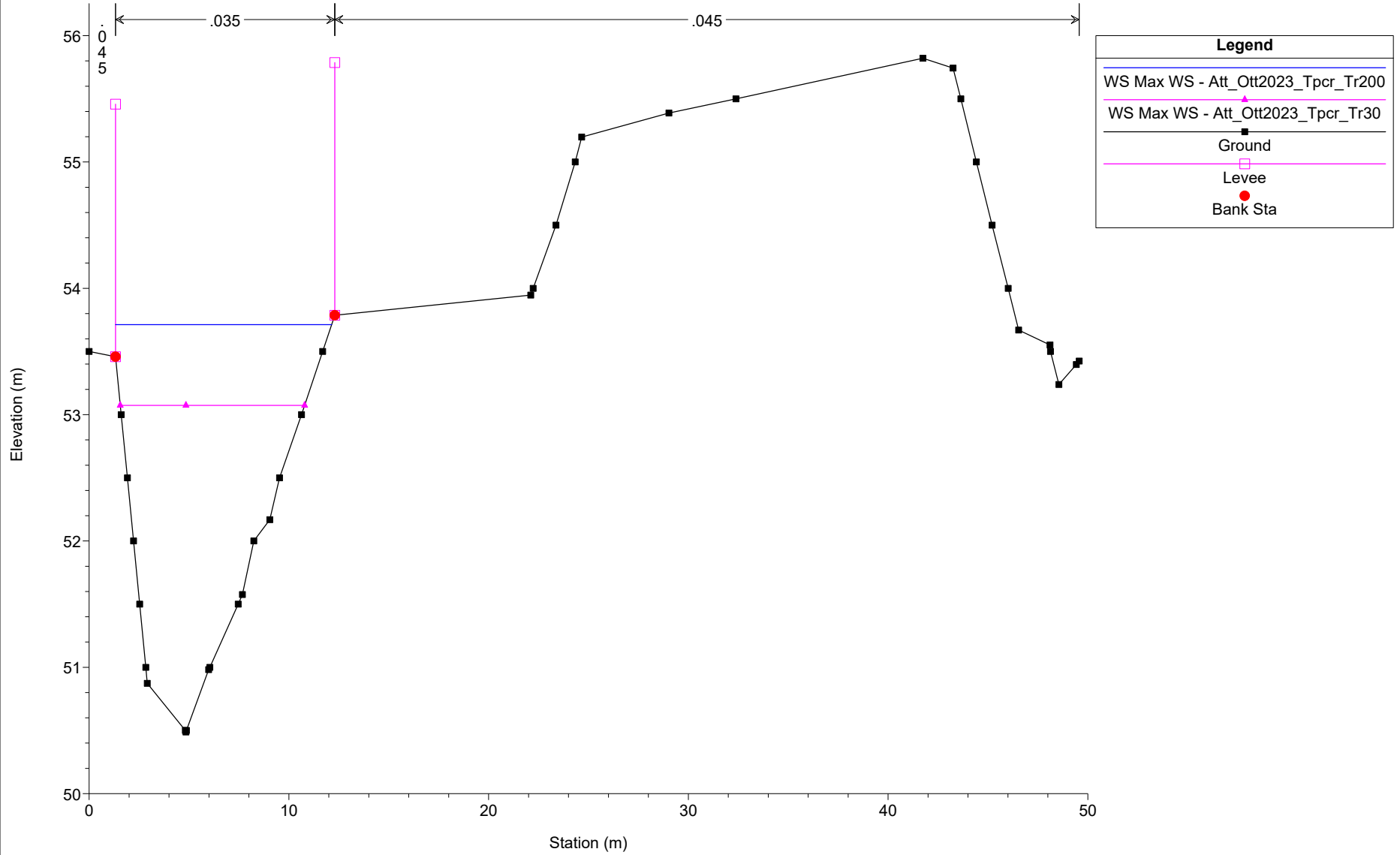
River = Rio Morto Reach = Rio Morto RS = -14.500\*



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—
Ground	■
Levee	□
Bank Sta	●

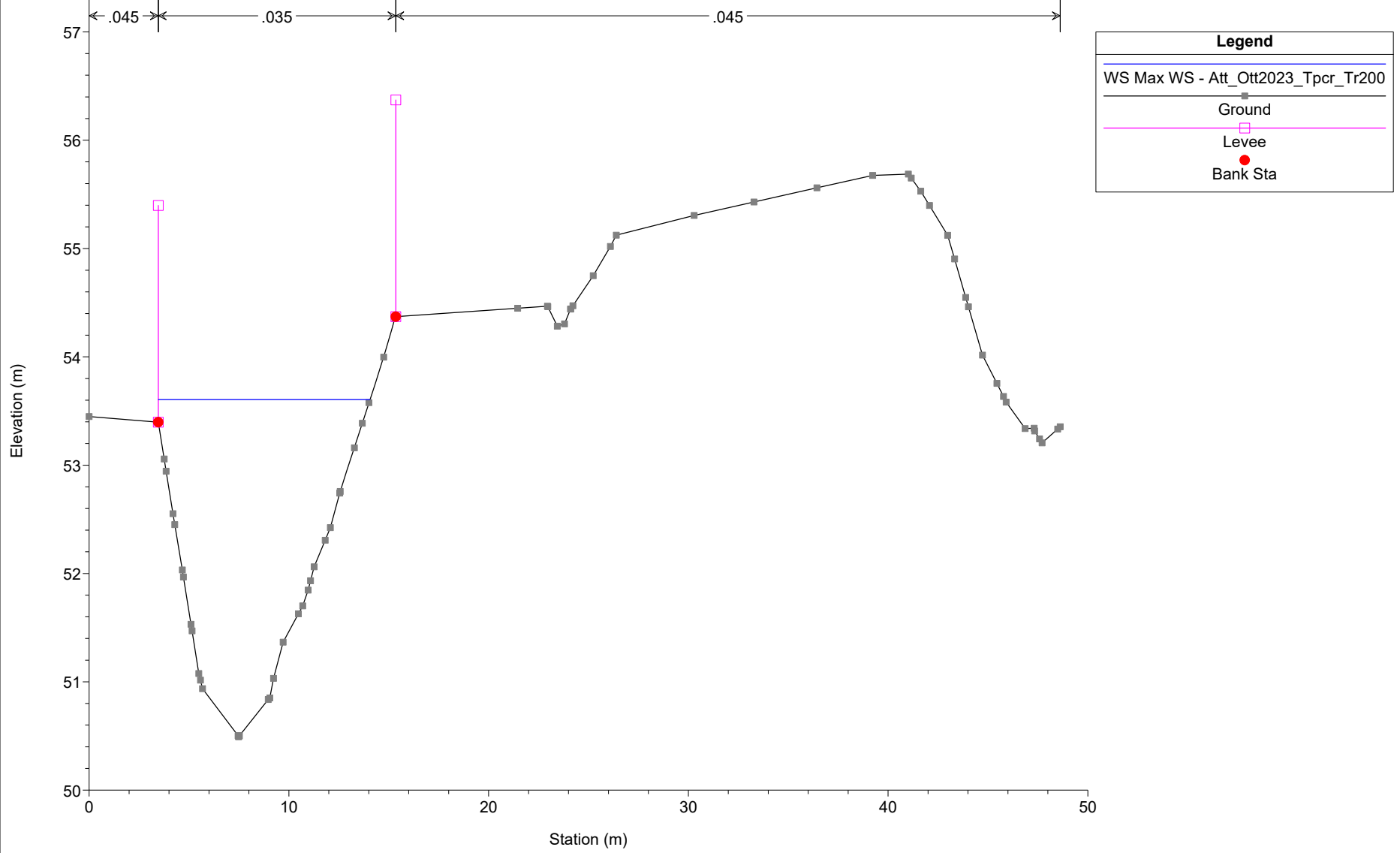
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -15



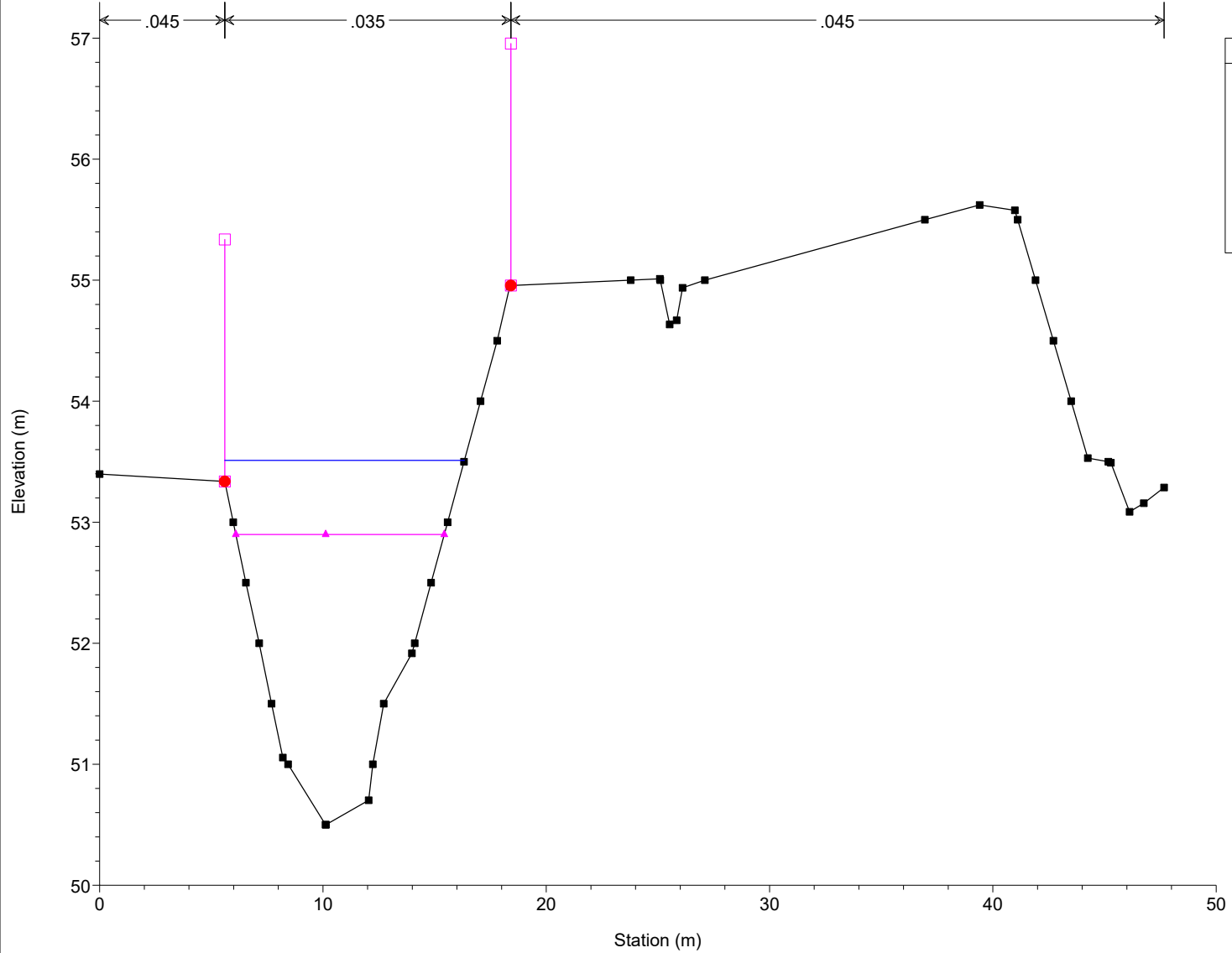
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -15.500\*



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

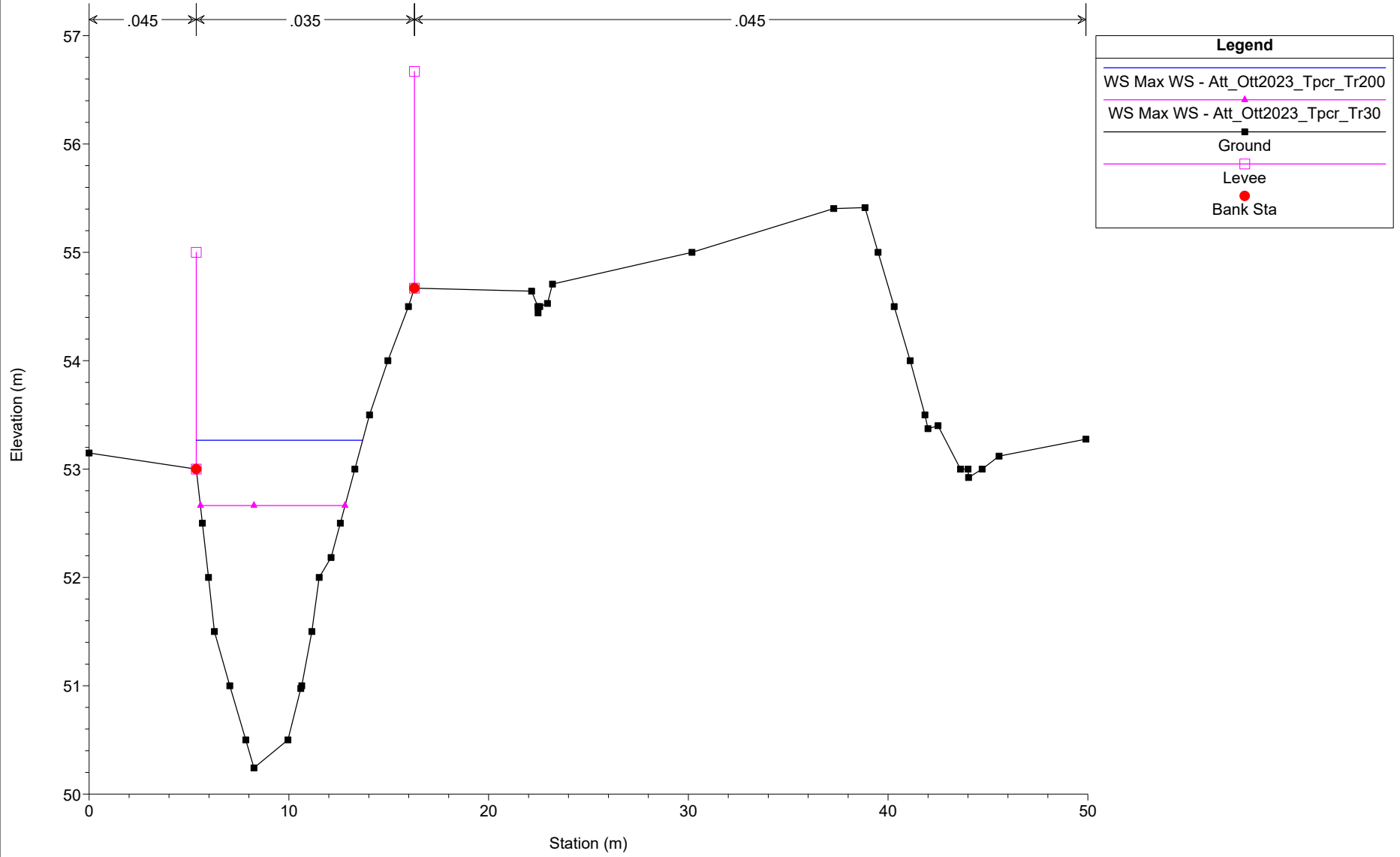
River = Rio Morto Reach = Rio Morto RS = -16



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—▲—
WS Max WS - Att_Ott2023_Tpcr_Tr30	—▲—
Ground	■
Levee	□
Bank Sta	●

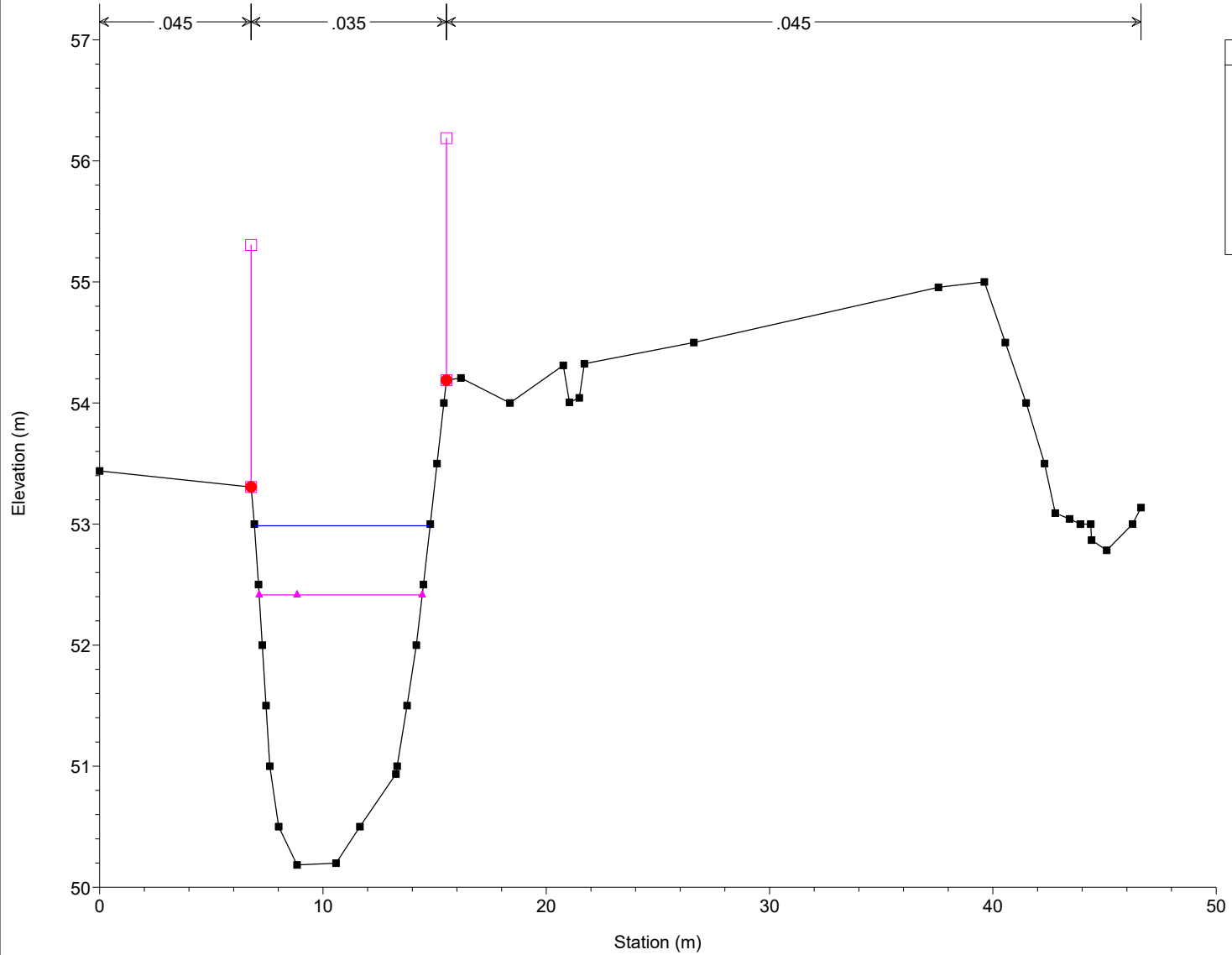
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -17



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -18

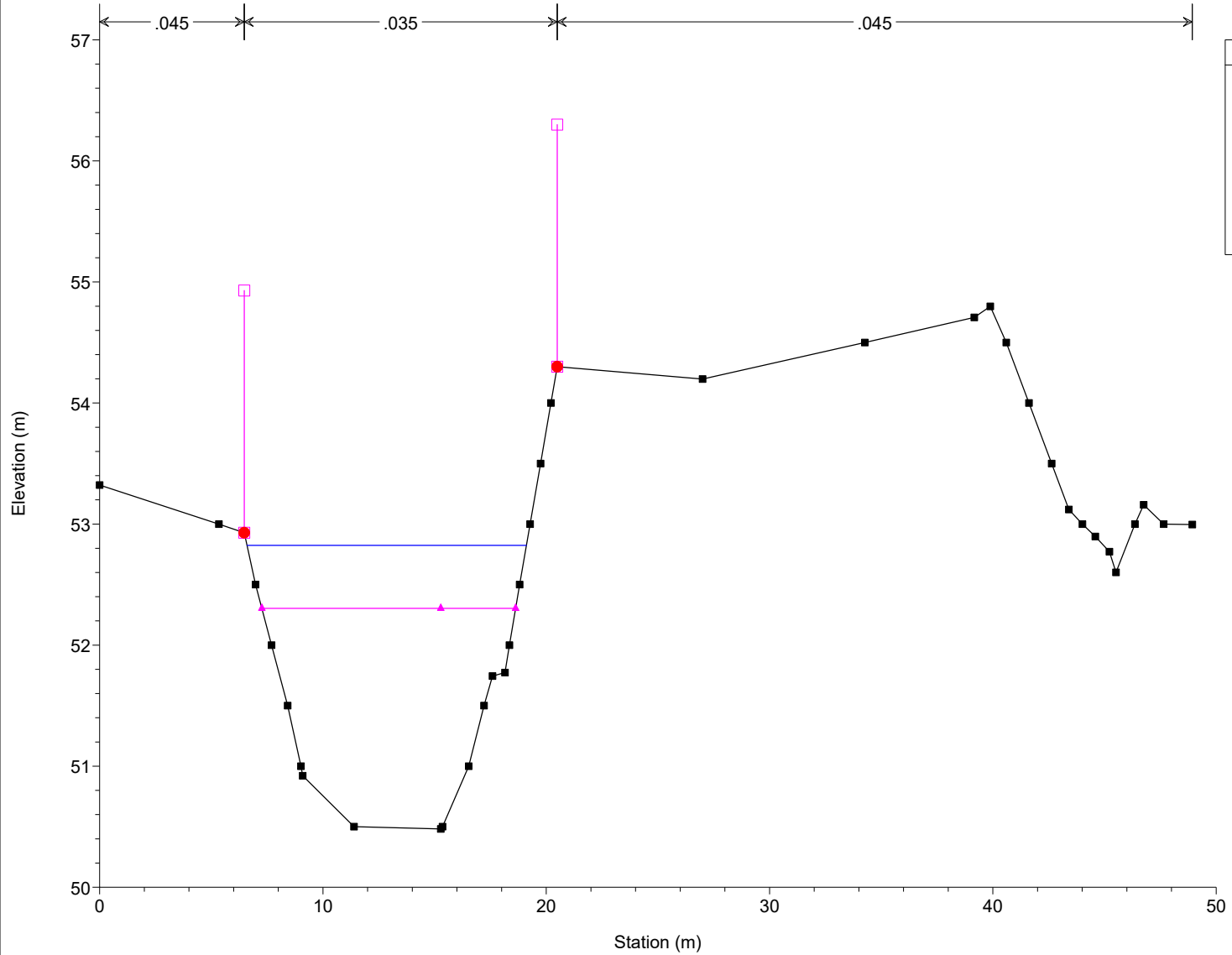


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- WS Max WS - Att\_Ott2023\_Tpcr\_Tr30
- Ground
- Levee
- Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

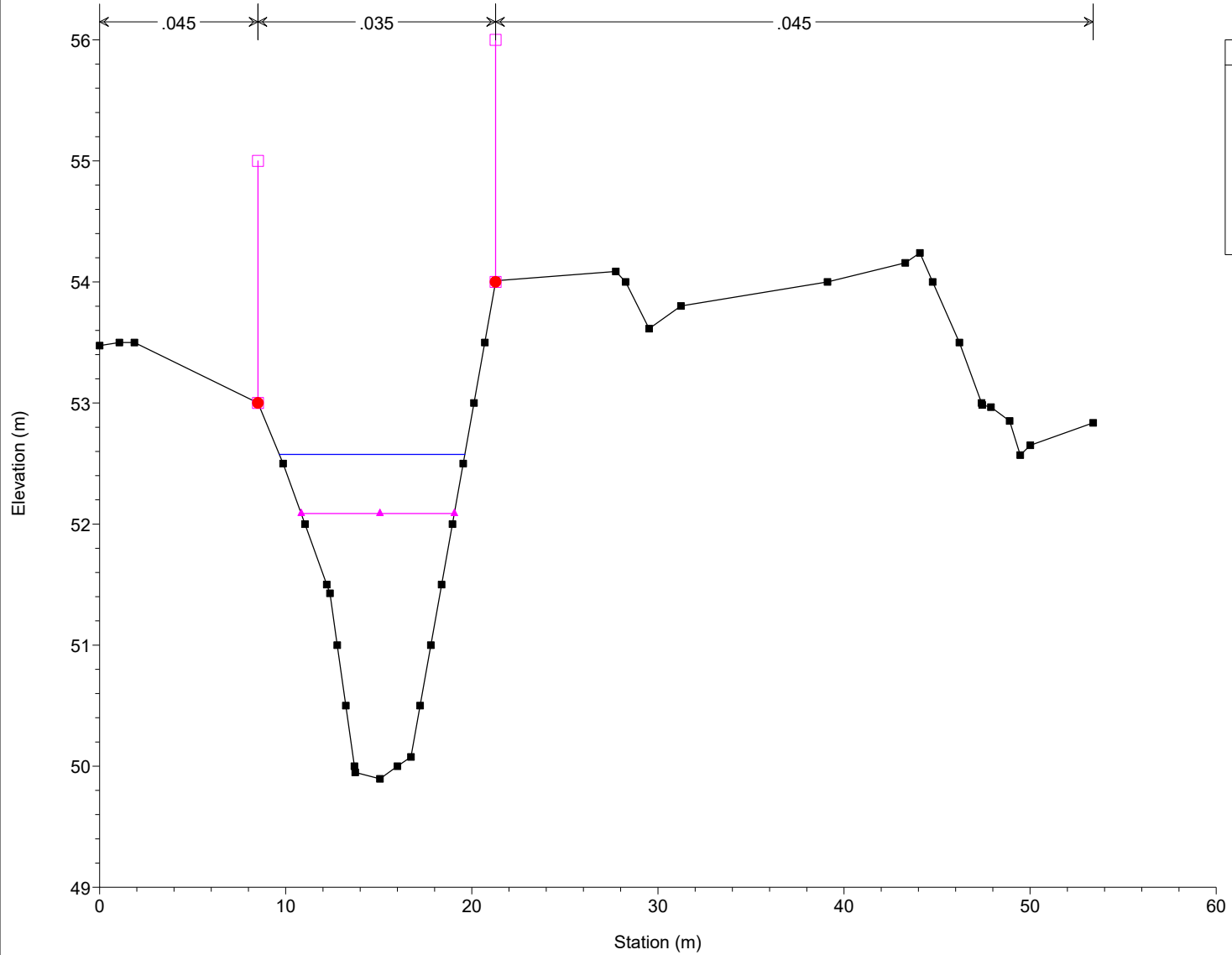
River = Rio Morto Reach = Rio Morto RS = -19



Legend	
— (Blue line)	WS Max WS - Att_Ott2023_Tpcr_Tr200
— (Pink line with triangle)	WS Max WS - Att_Ott2023_Tpcr_Tr30
— (Black line with square)	Ground
— (Pink line with square)	Levee
• (Red dot)	Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -20

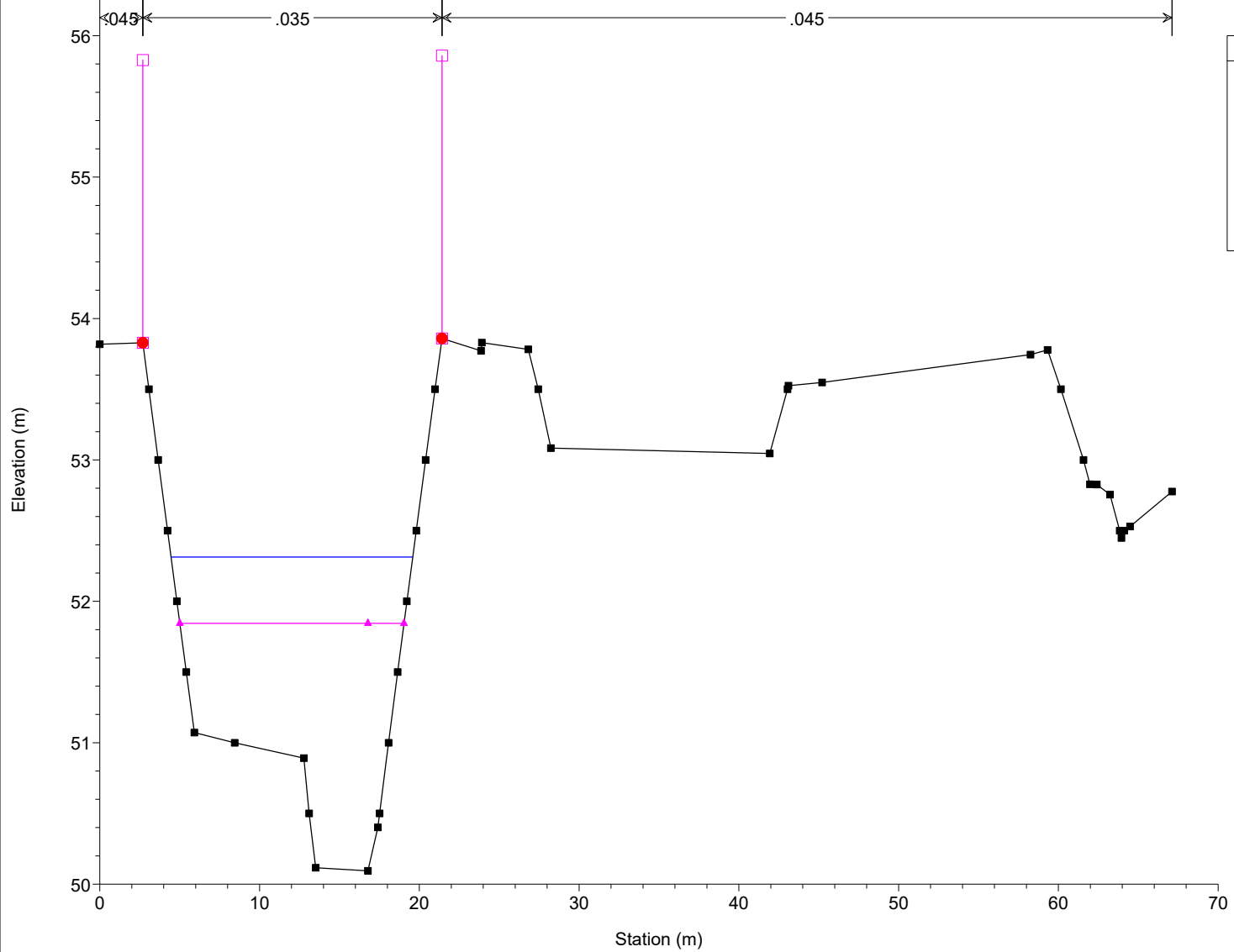


Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—▲—
WS Max WS - Att_Ott2023_Tpcr_Tr30	—▲—
Ground	■
Levee	□
Bank Sta	●



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

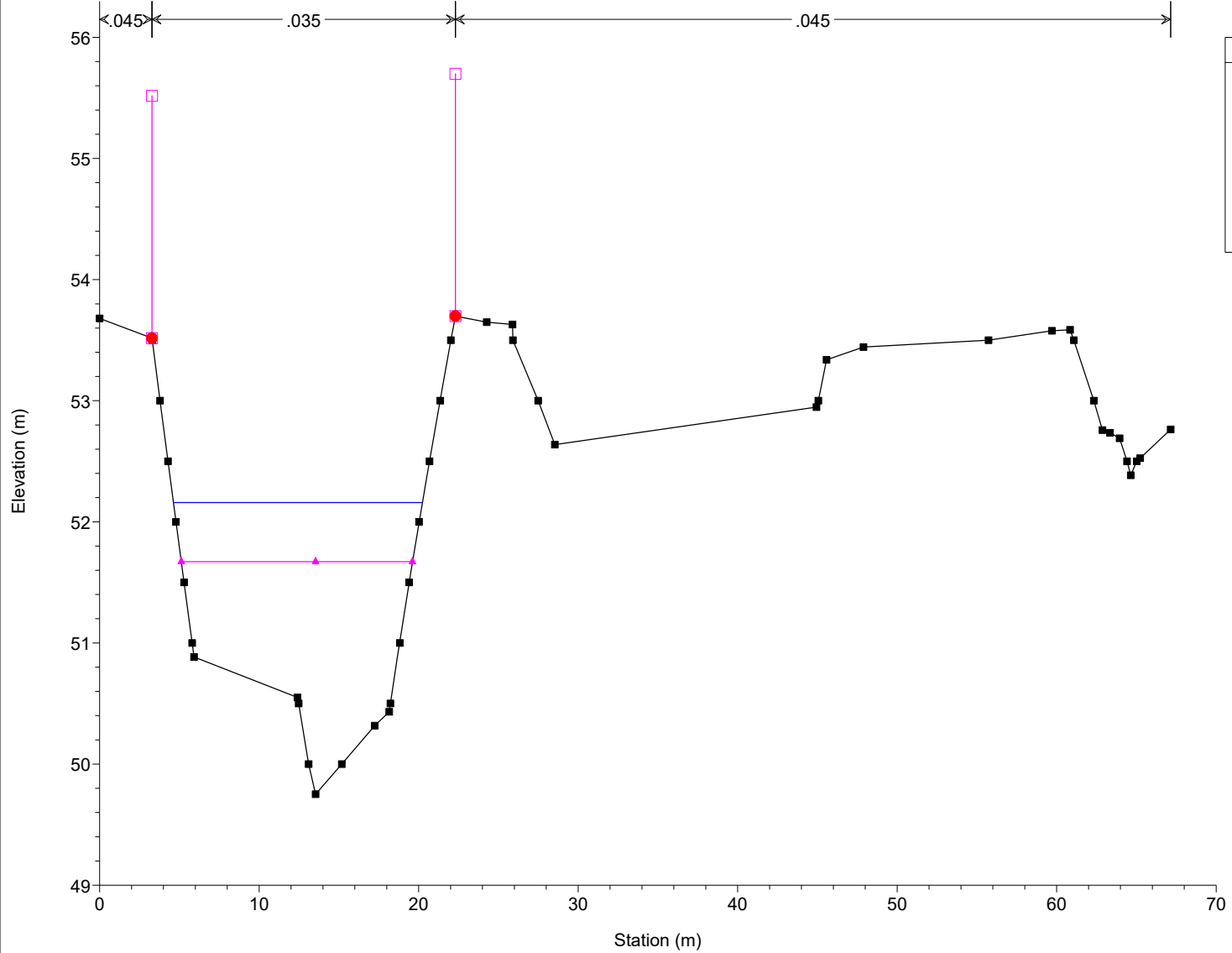
River = Rio Morto Reach = Rio Morto RS = -21



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

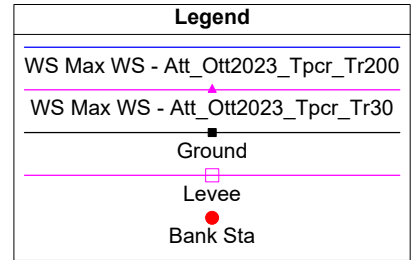
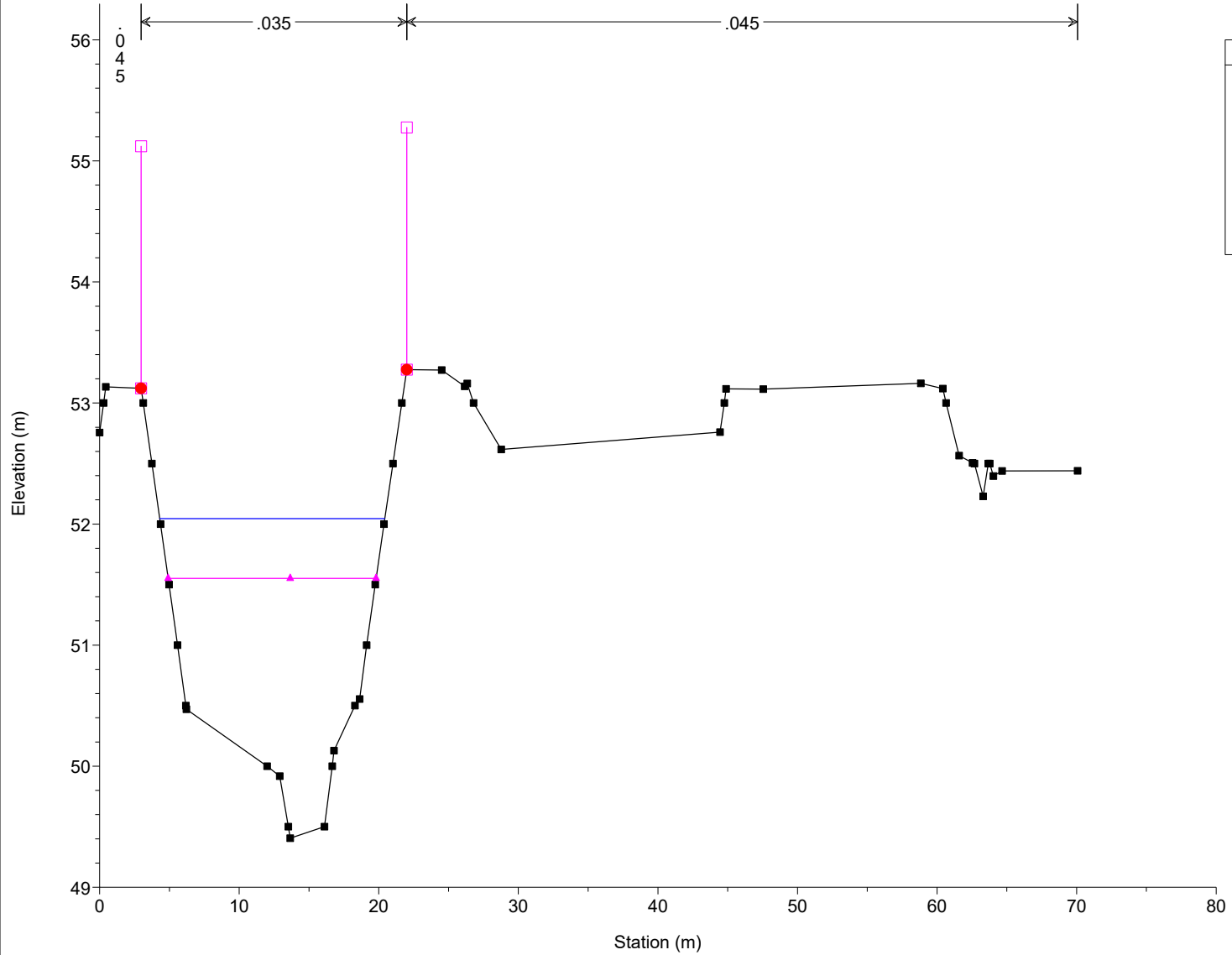
River = Rio Morto Reach = Rio Morto RS = -22



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	

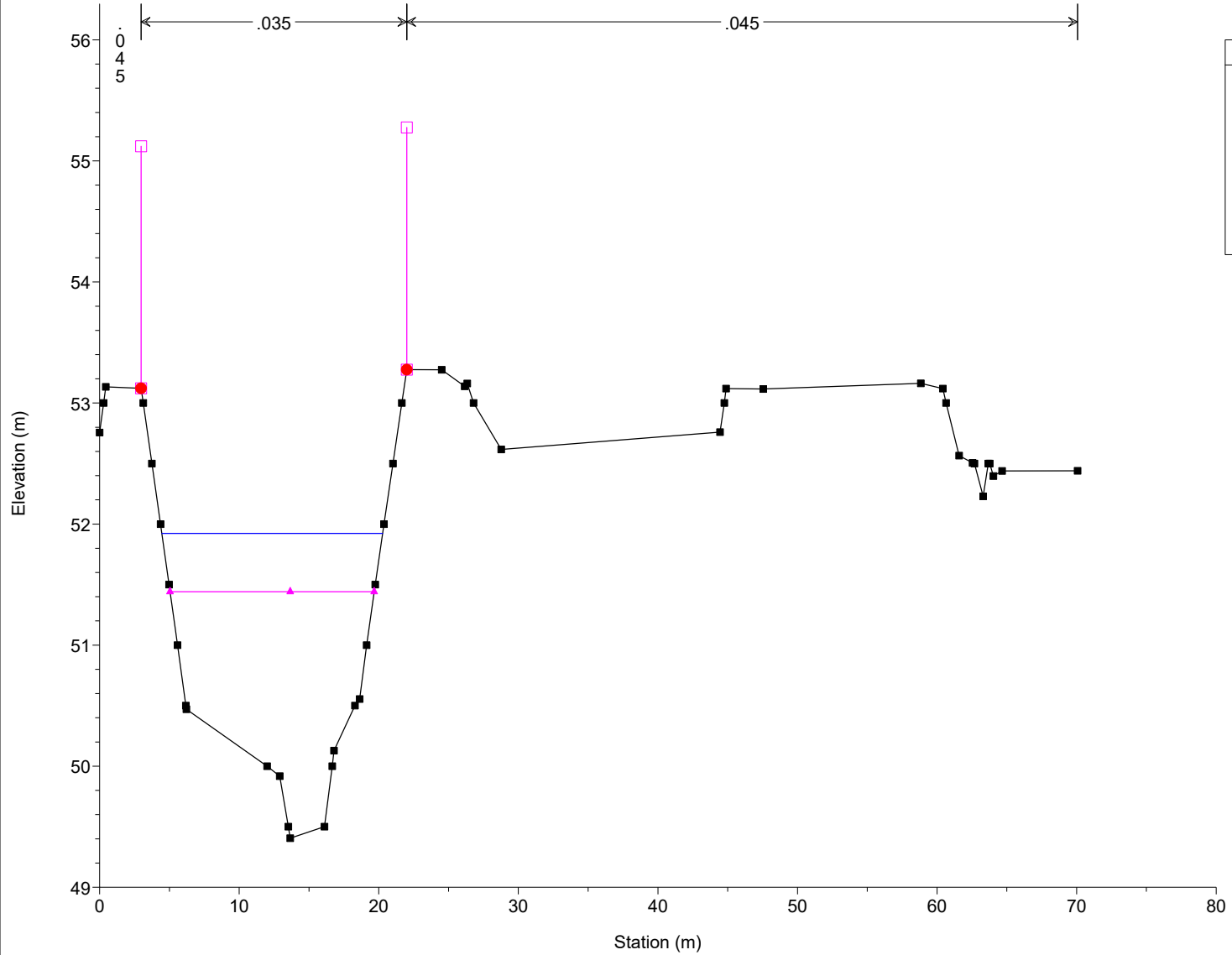
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -23



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

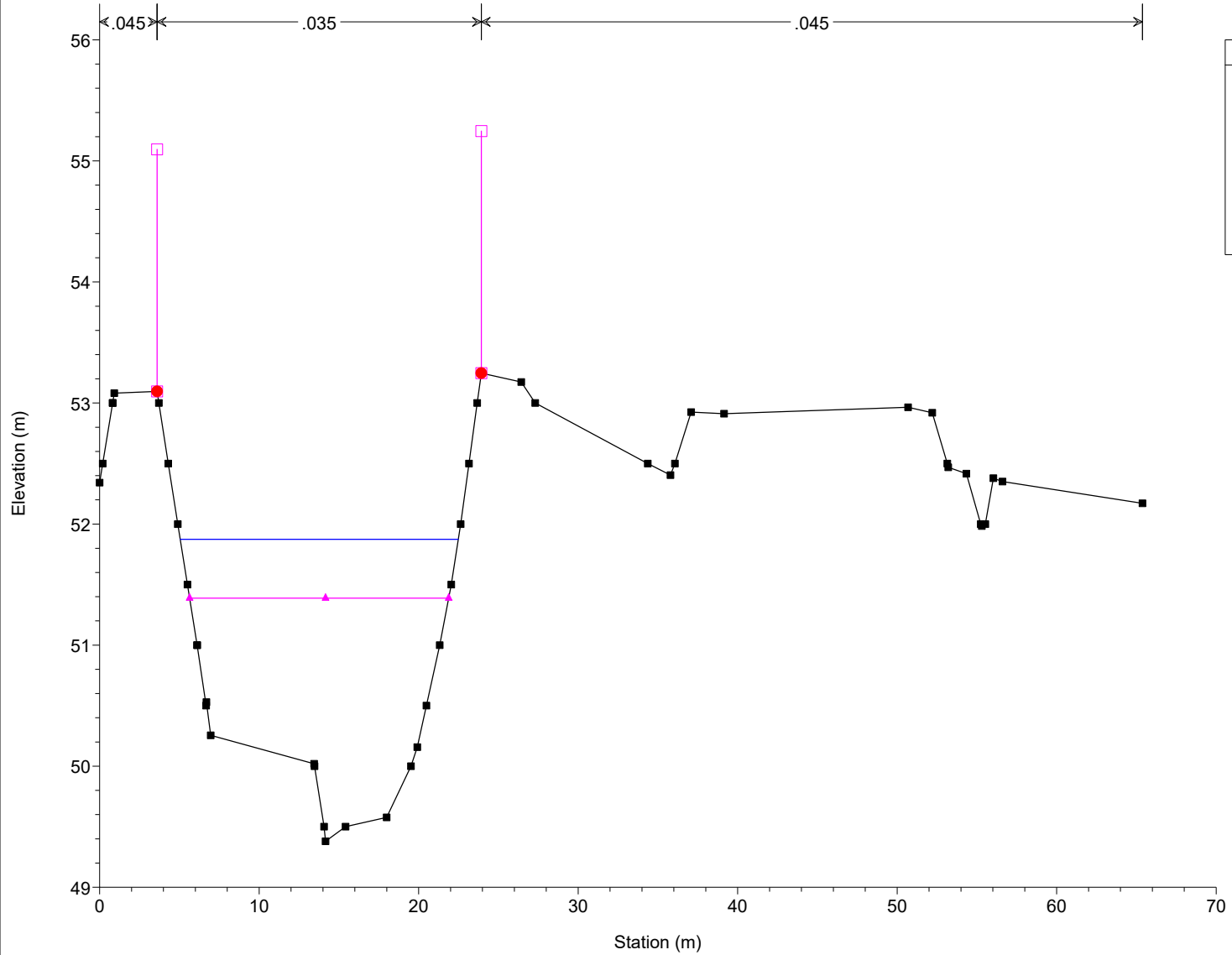
River = Rio Morto Reach = Rio Morto RS = -24



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—
WS Max WS - Att_Ott2023_Tpcr_Tr30	—▲—
Ground	—■—
Levee	—□—
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

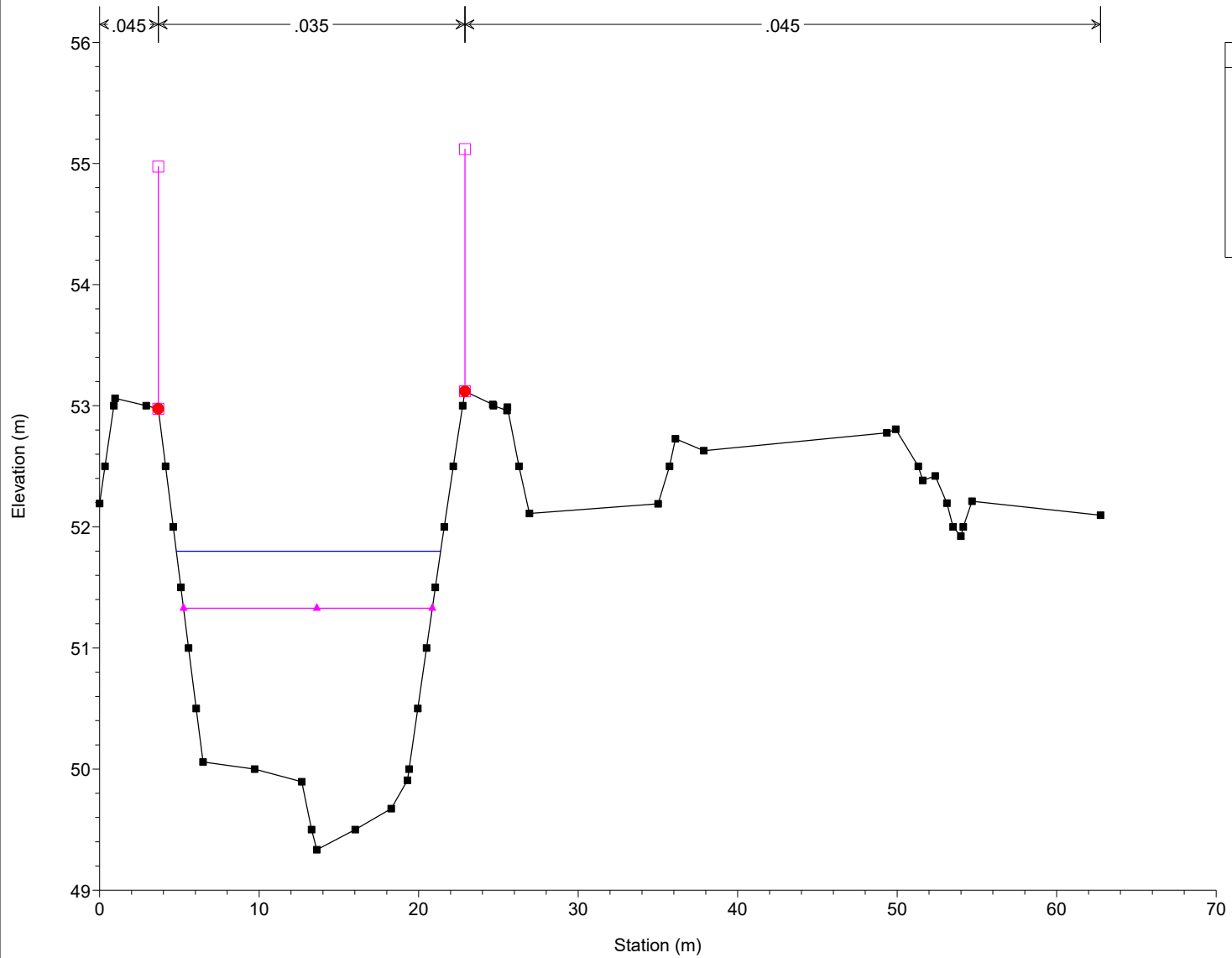
River = Rio Morto Reach = Rio Morto RS = -25



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	Blue line
WS Max WS - Att_Ott2023_Tpcr_Tr30	Magenta line with triangle
Ground	Black line with square
Levee	Magenta line with square
Bank Sta	Red circle

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

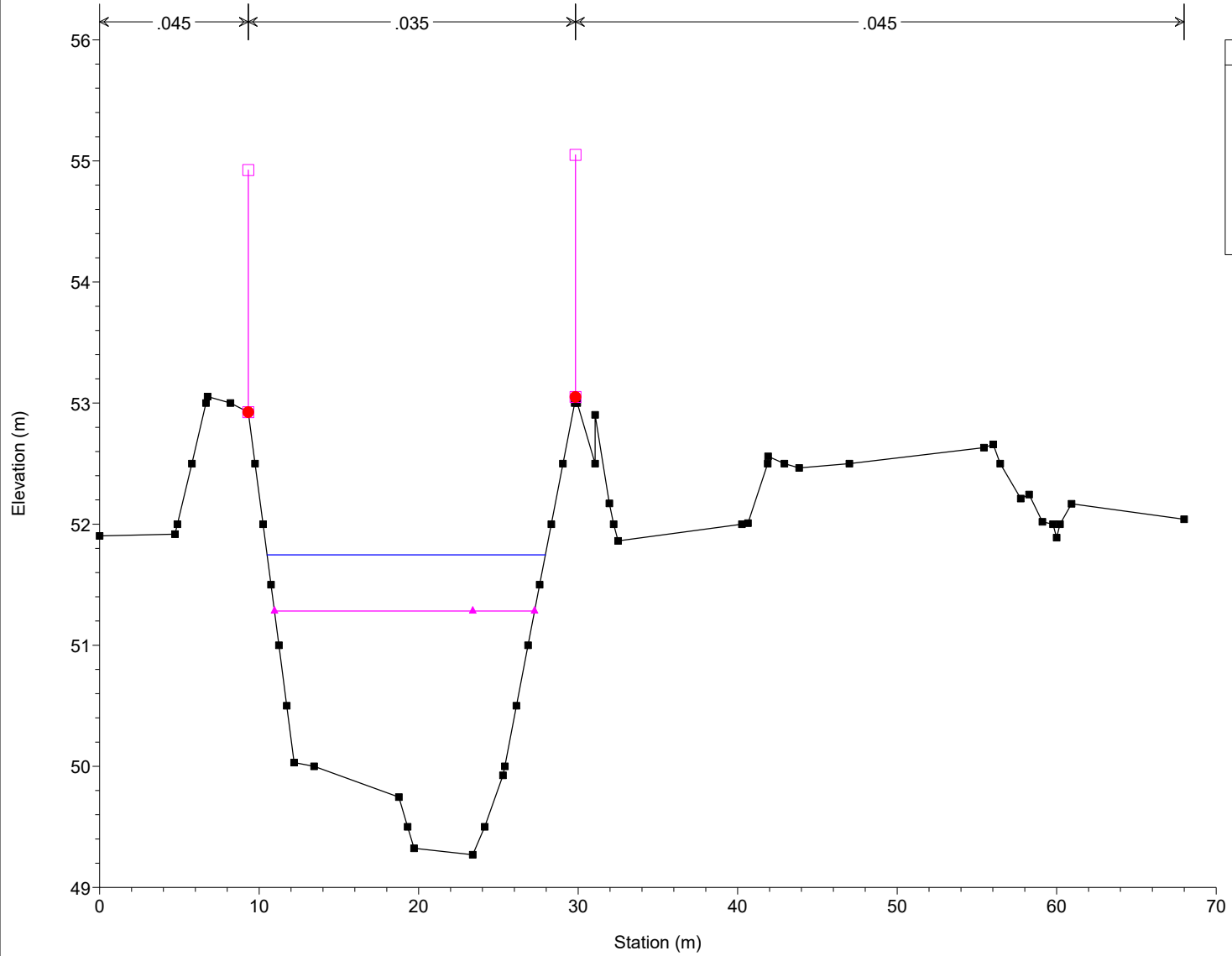
River = Rio Morto Reach = Rio Morto RS = -26



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	— (Blue line)
WS Max WS - Att_Ott2023_Tpcr_Tr30	— (Magenta line)
Ground	— (Black line)
Levee	— (Blue/Magenta lines)
Bank Sta	• (Red dot)

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -27

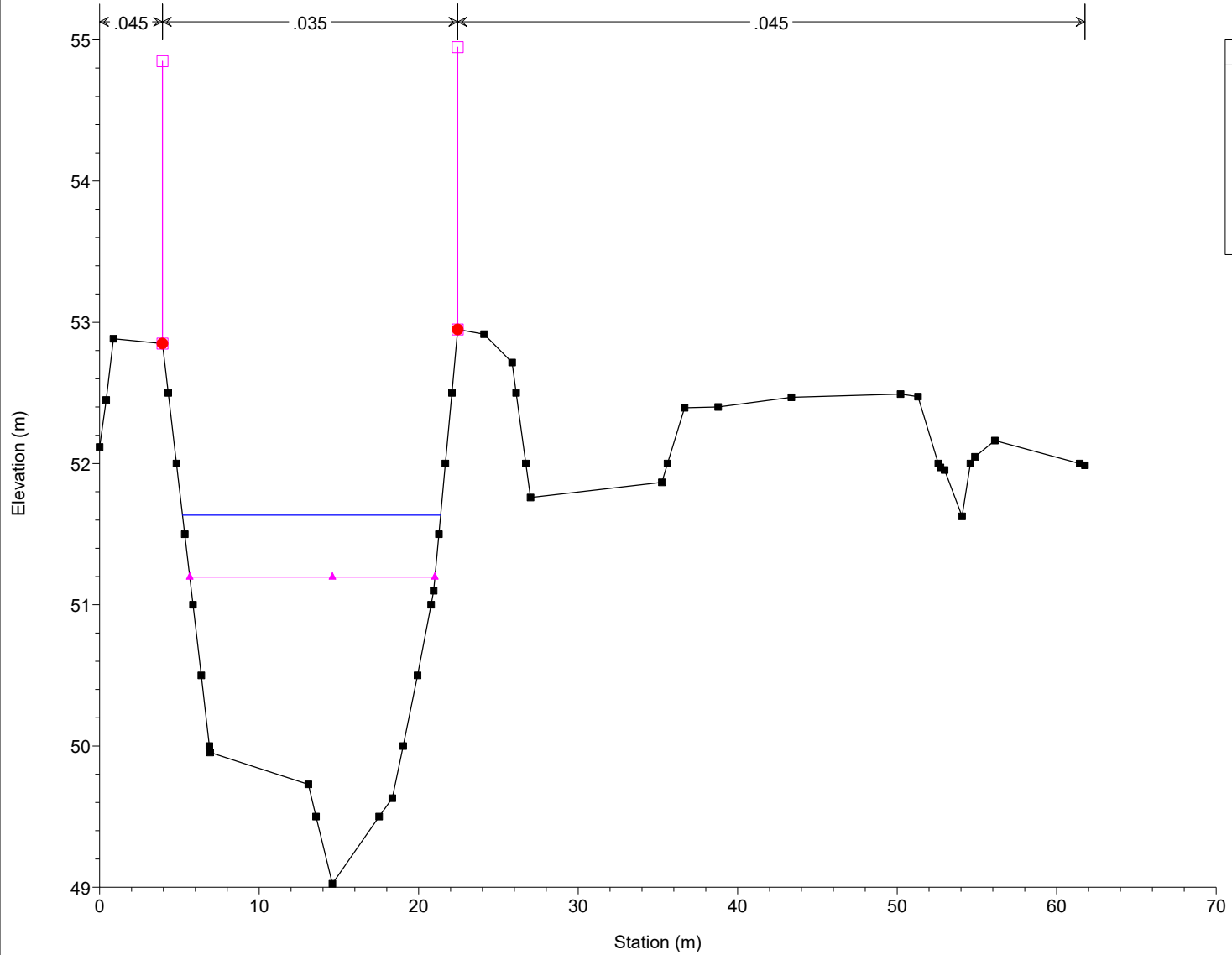


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- WS Max WS - Att\_Ott2023\_Tpcr\_Tr30
- Ground
- Levee
- Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -28

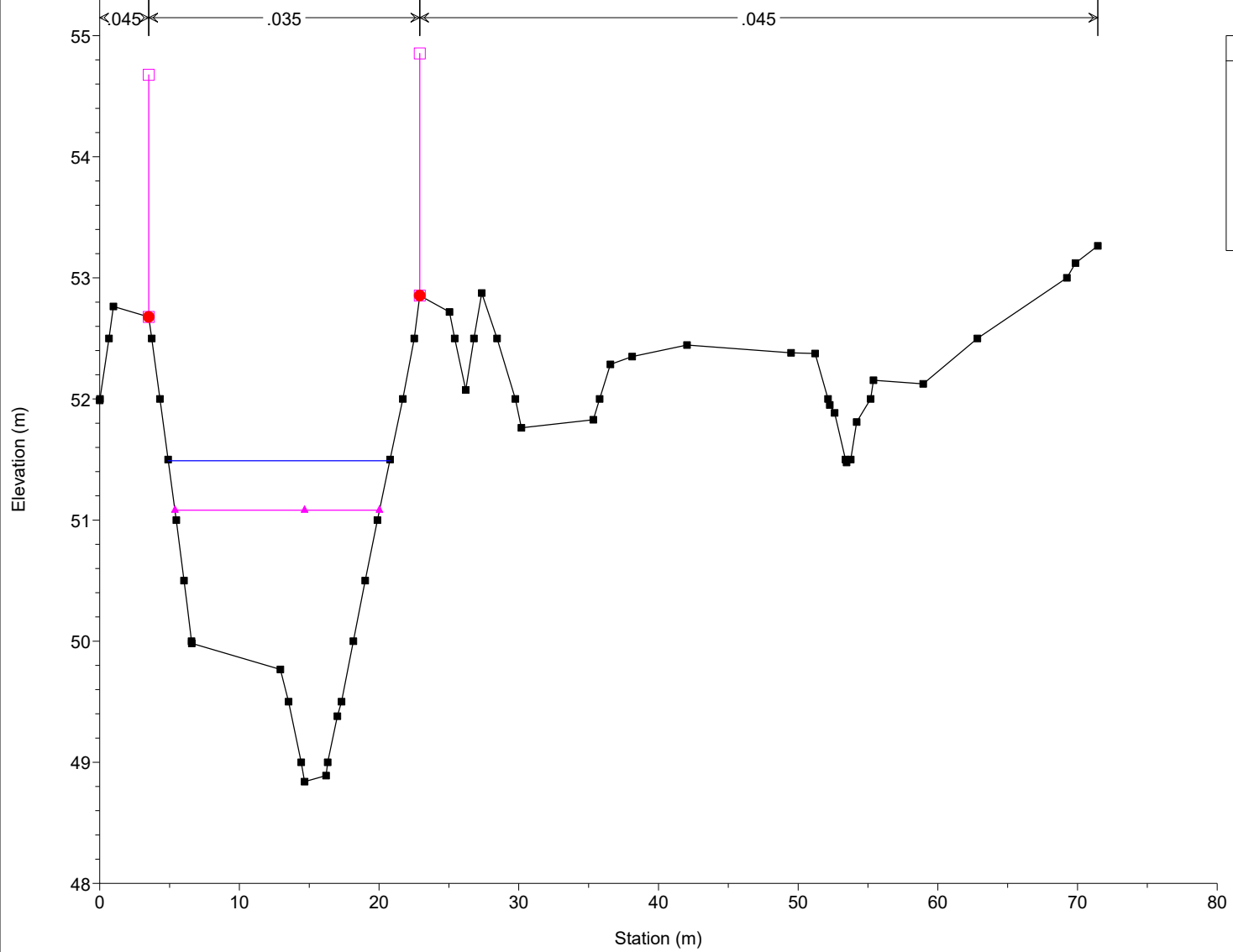


Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

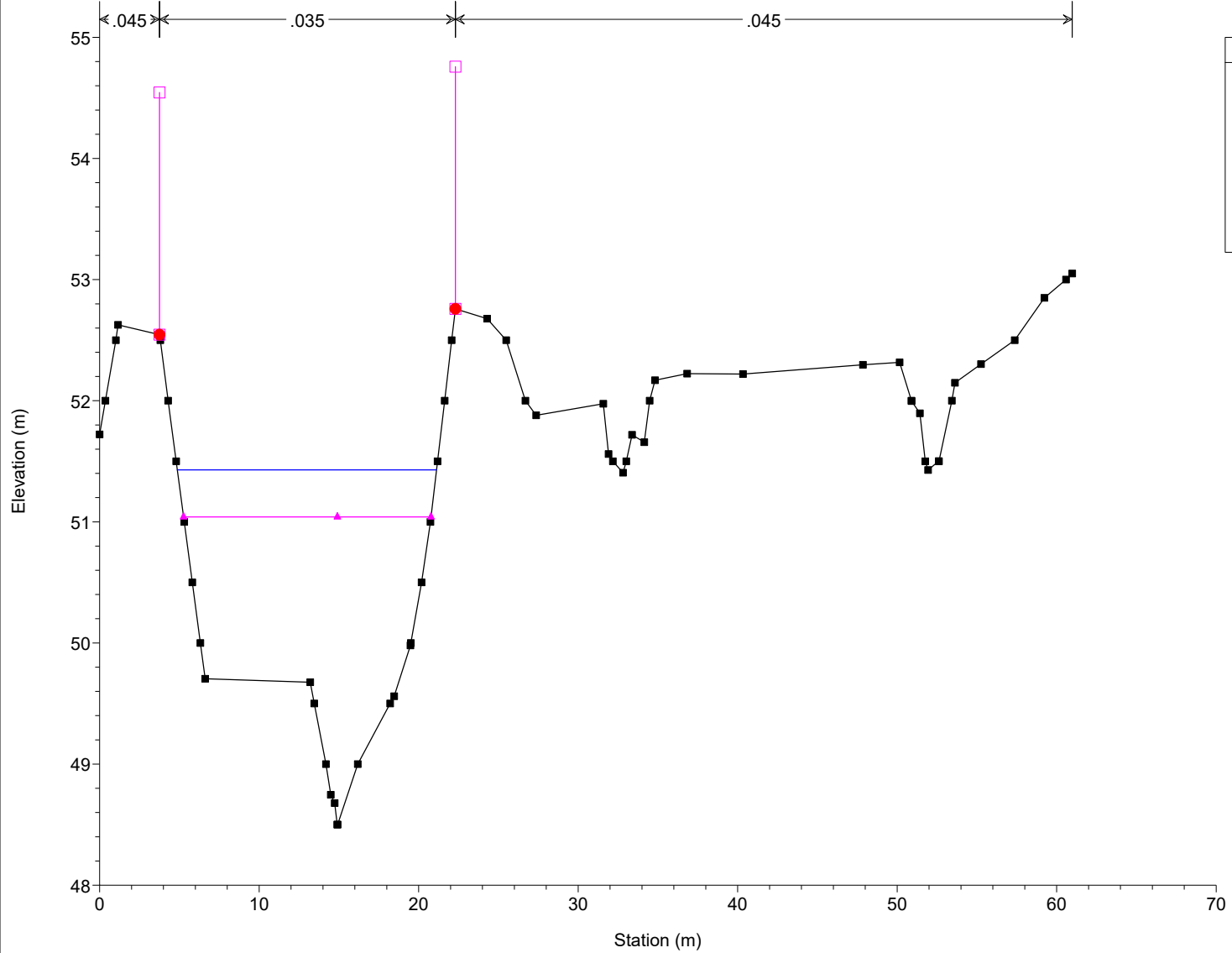
River = Rio Morto Reach = Rio Morto RS = -29



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—▲—
WS Max WS - Att_Ott2023_Tpcr_Tr30	—▲—
Ground	—■—
Levee	—□—
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

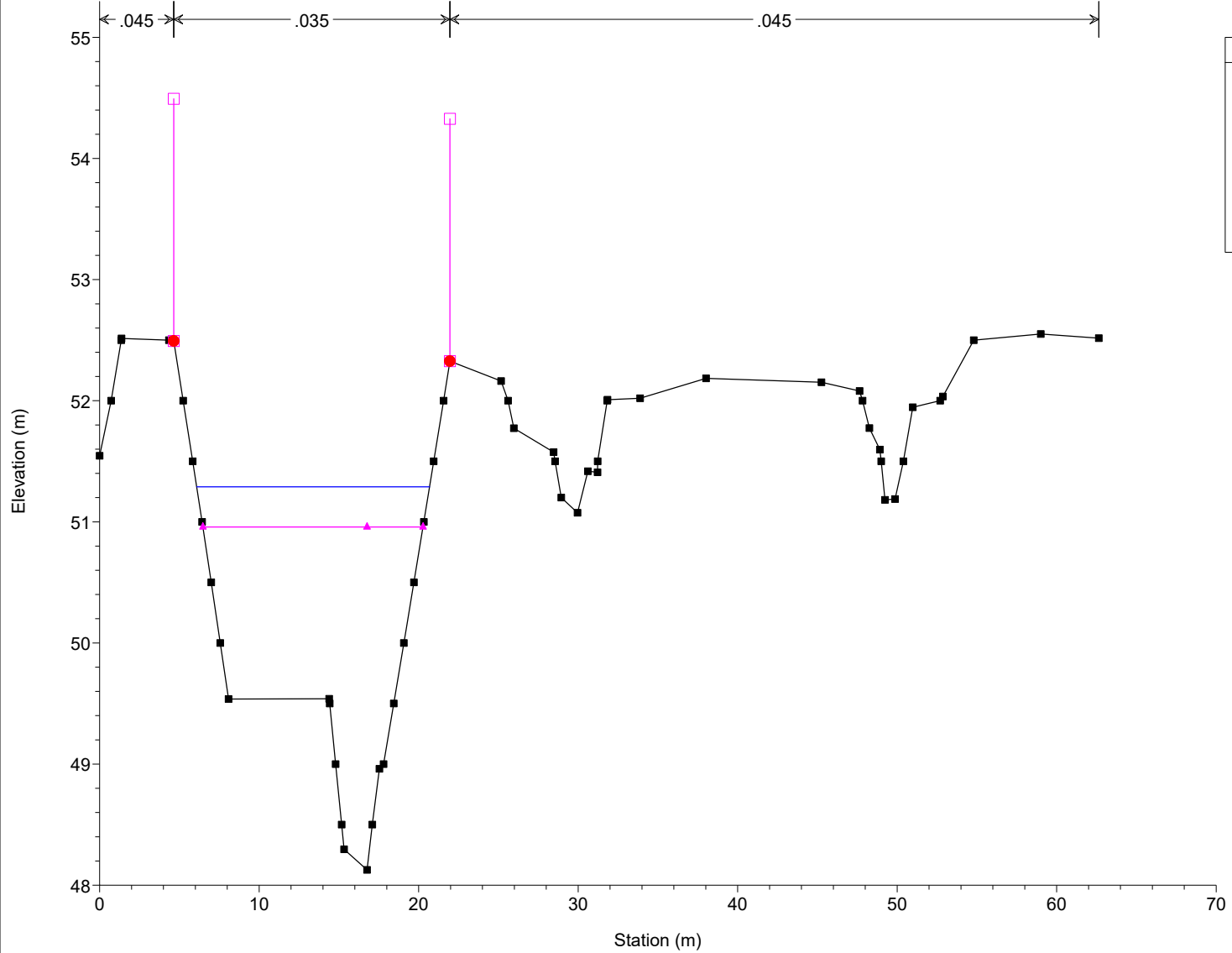
River = Rio Morto Reach = Rio Morto RS = -30



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—
WS Max WS - Att_Ott2023_Tpcr_Tr30	—▲—
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

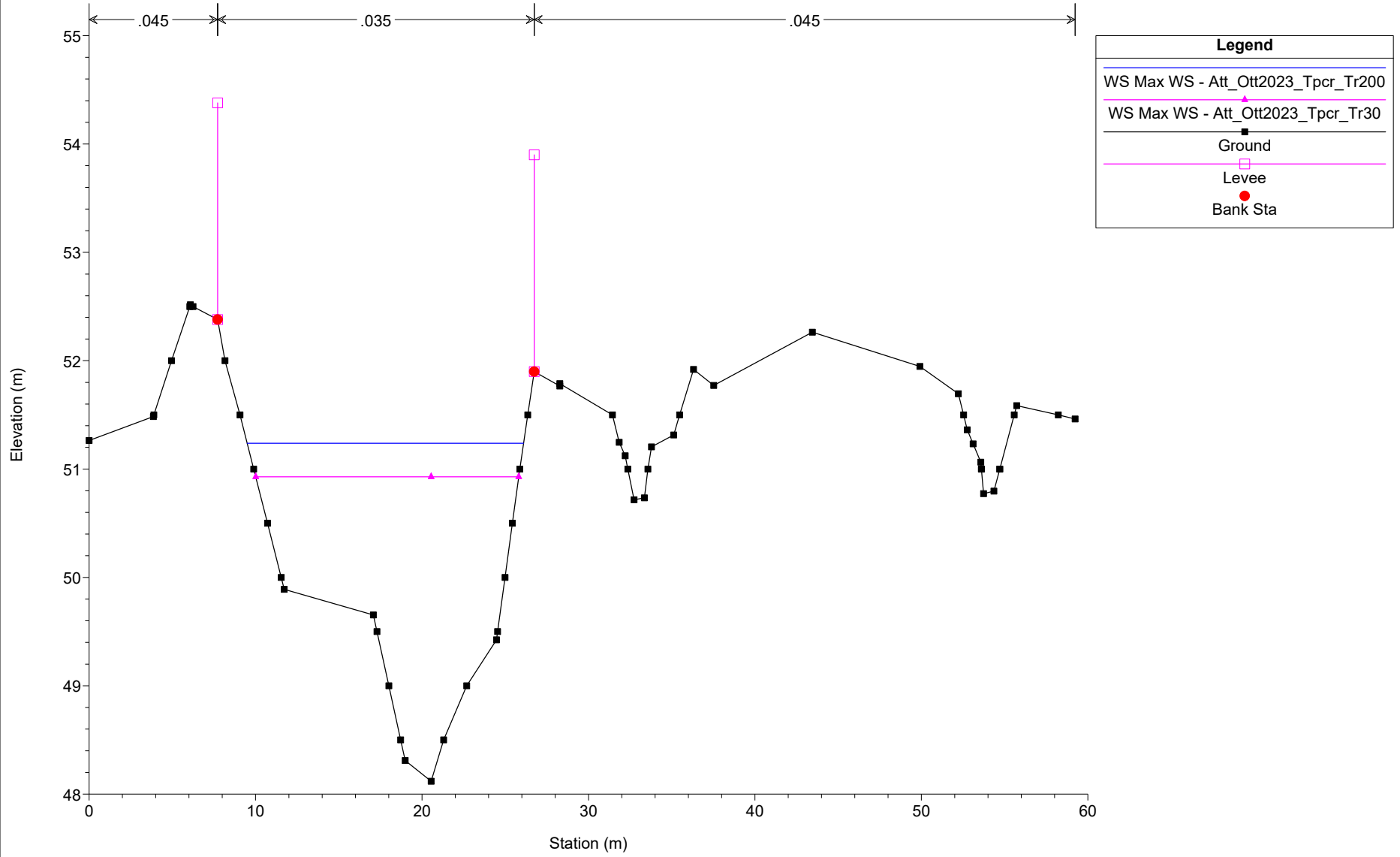
River = Rio Morto Reach = Rio Morto RS = -31



Legend	
—	WS Max WS - Att_Ott2023_Tpcr_Tr200
—▲—	WS Max WS - Att_Ott2023_Tpcr_Tr30
■	Ground
□	Levee
●	Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

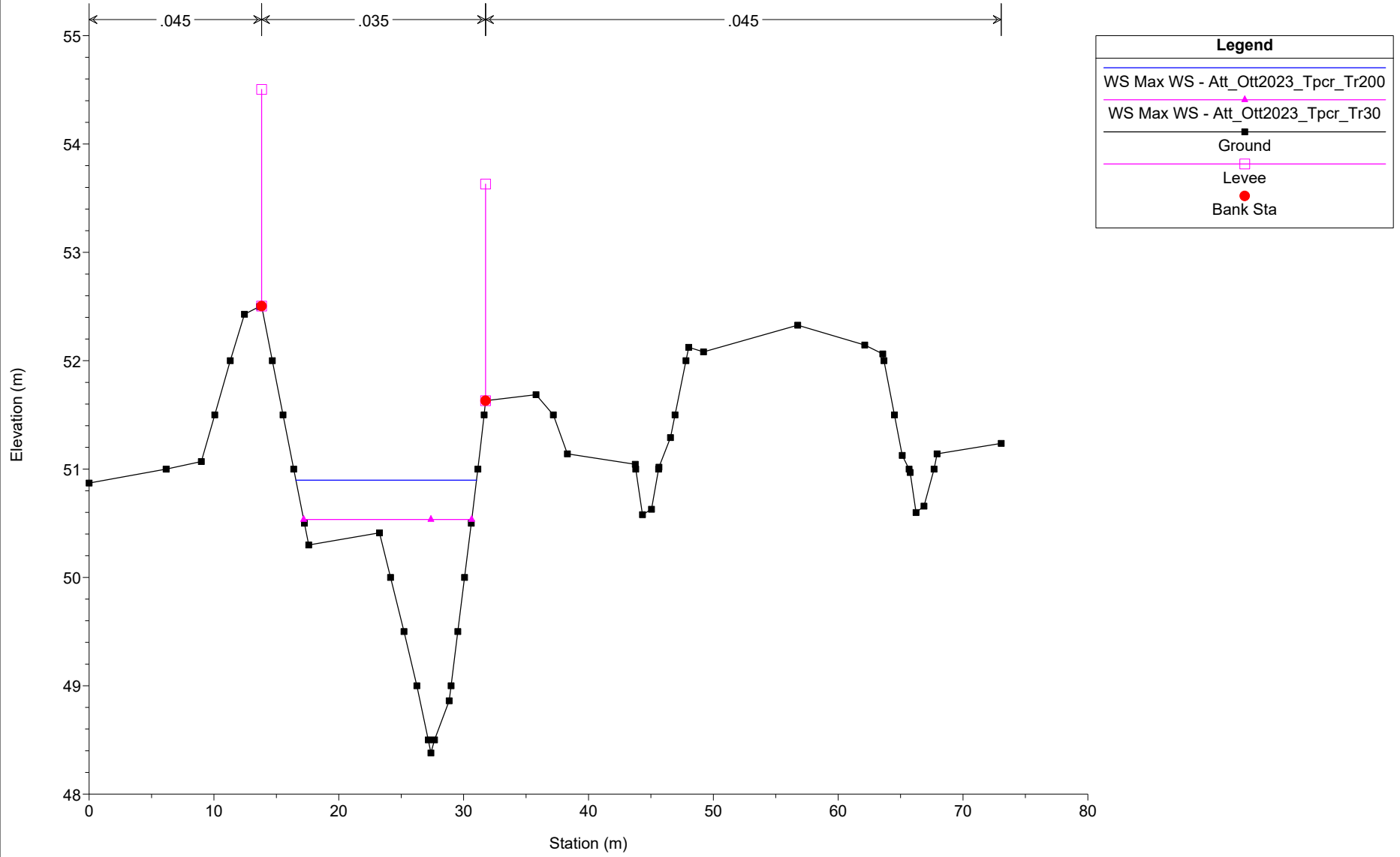
River = Rio Morto Reach = Rio Morto RS = -32



Legend	
— (Blue line)	WS Max WS - Att_Ott2023_Tpcr_Tr200
— (Magenta line)	WS Max WS - Att_Ott2023_Tpcr_Tr30
— (Black line)	Ground
□ (Magenta)	Levee
● (Red)	Bank Sta

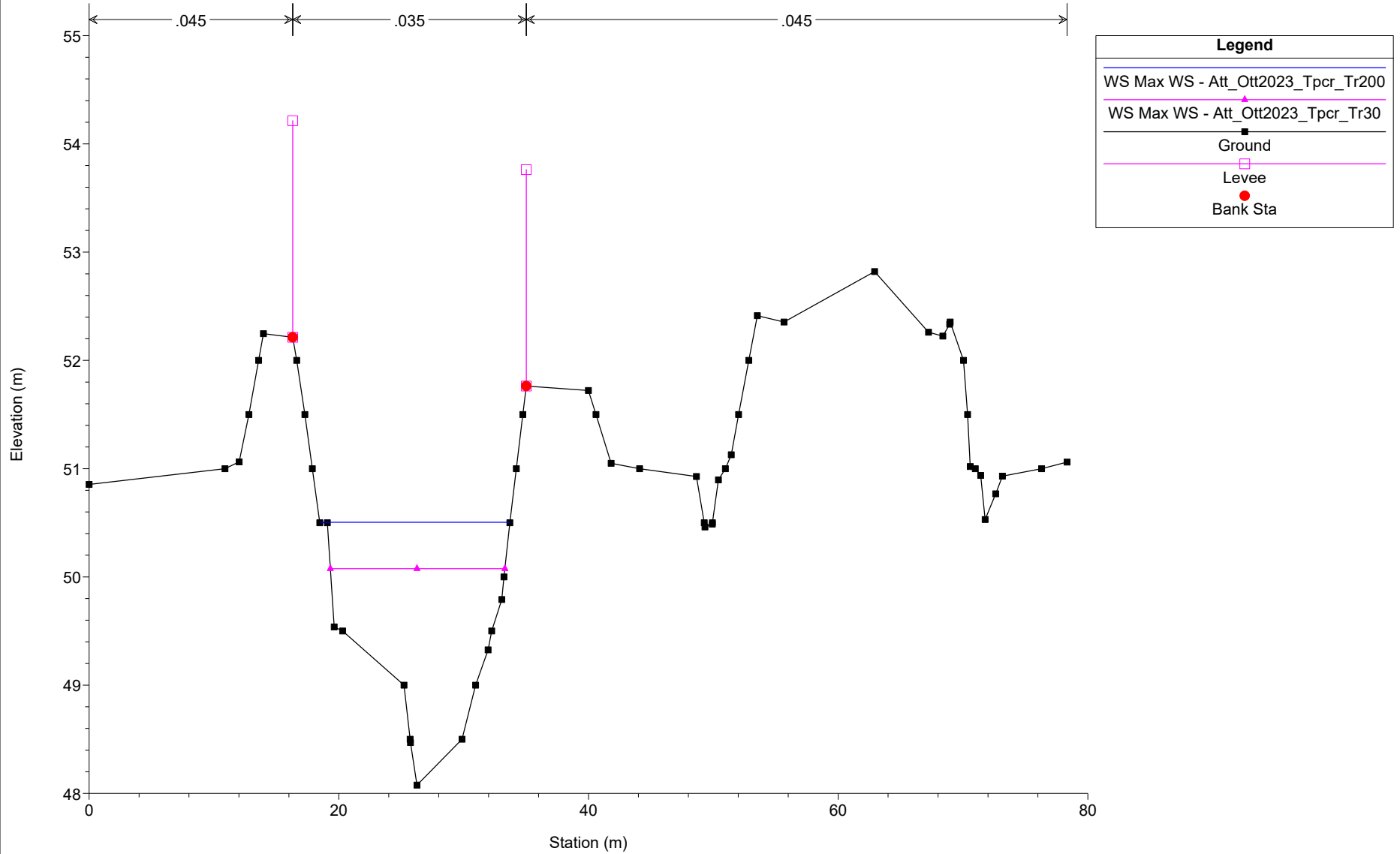
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -33



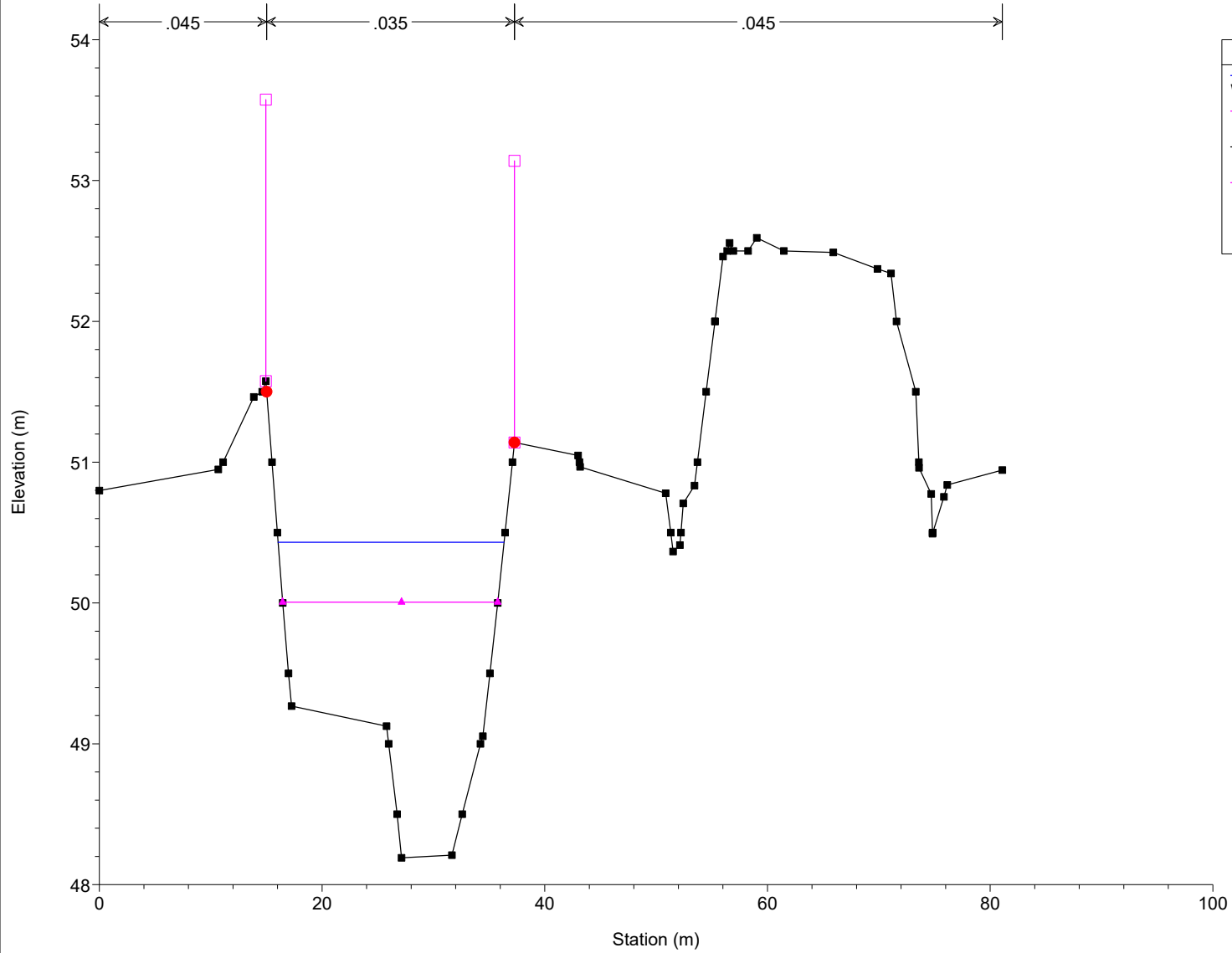
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -34



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

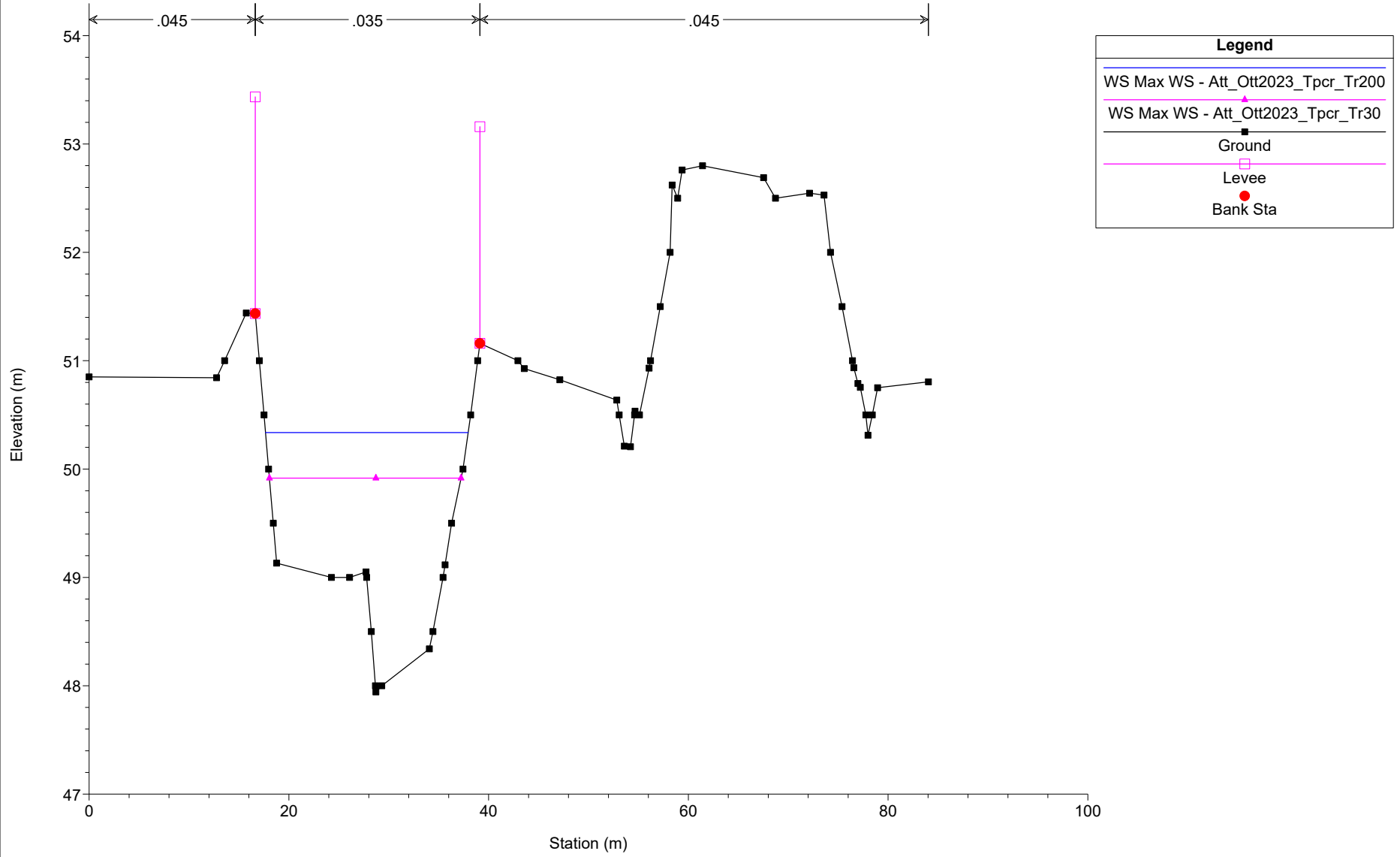
River = Rio Morto Reach = Rio Morto RS = -35



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	■
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

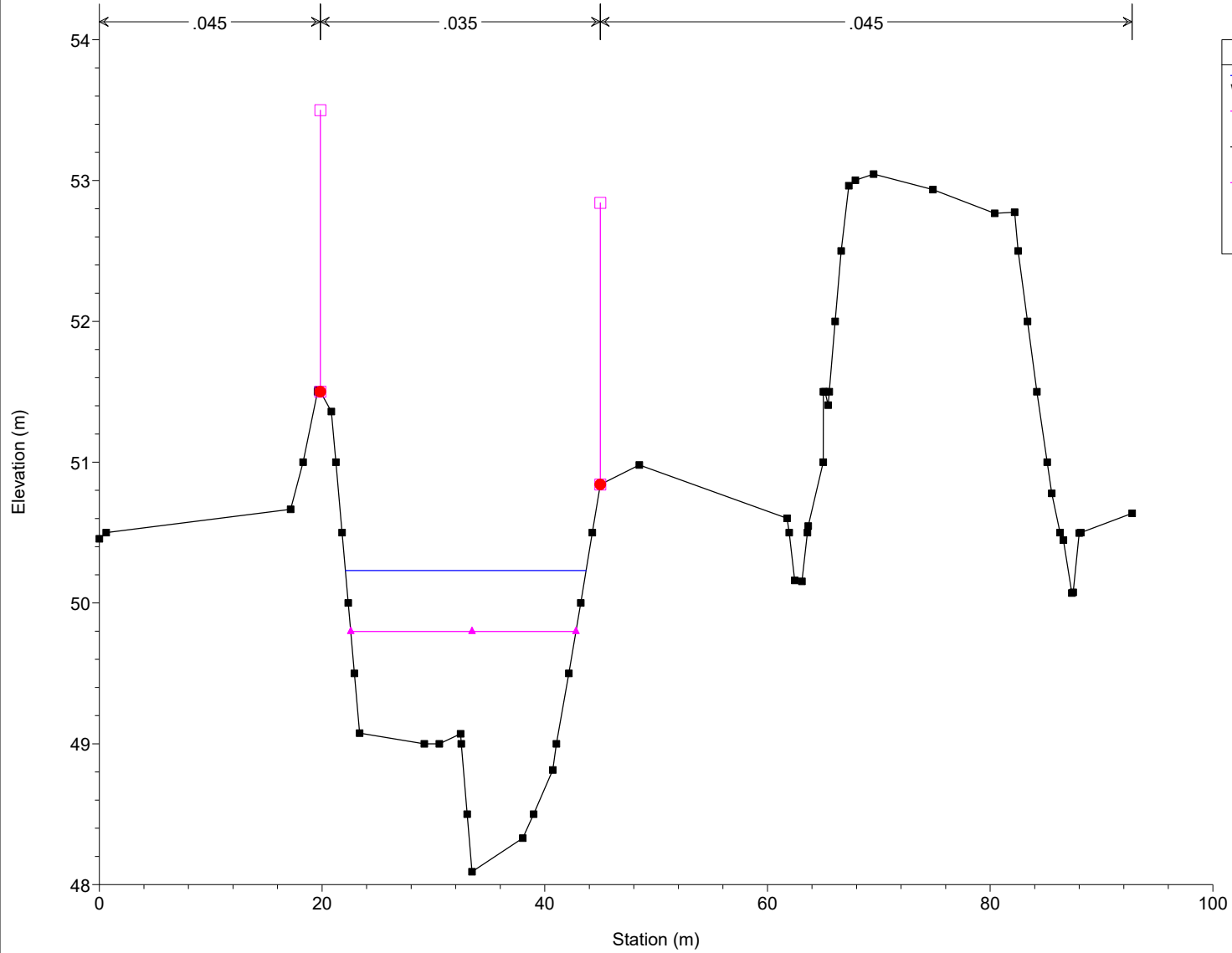
River = Rio Morto Reach = Rio Morto RS = -36





1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

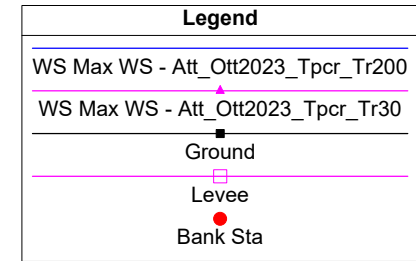
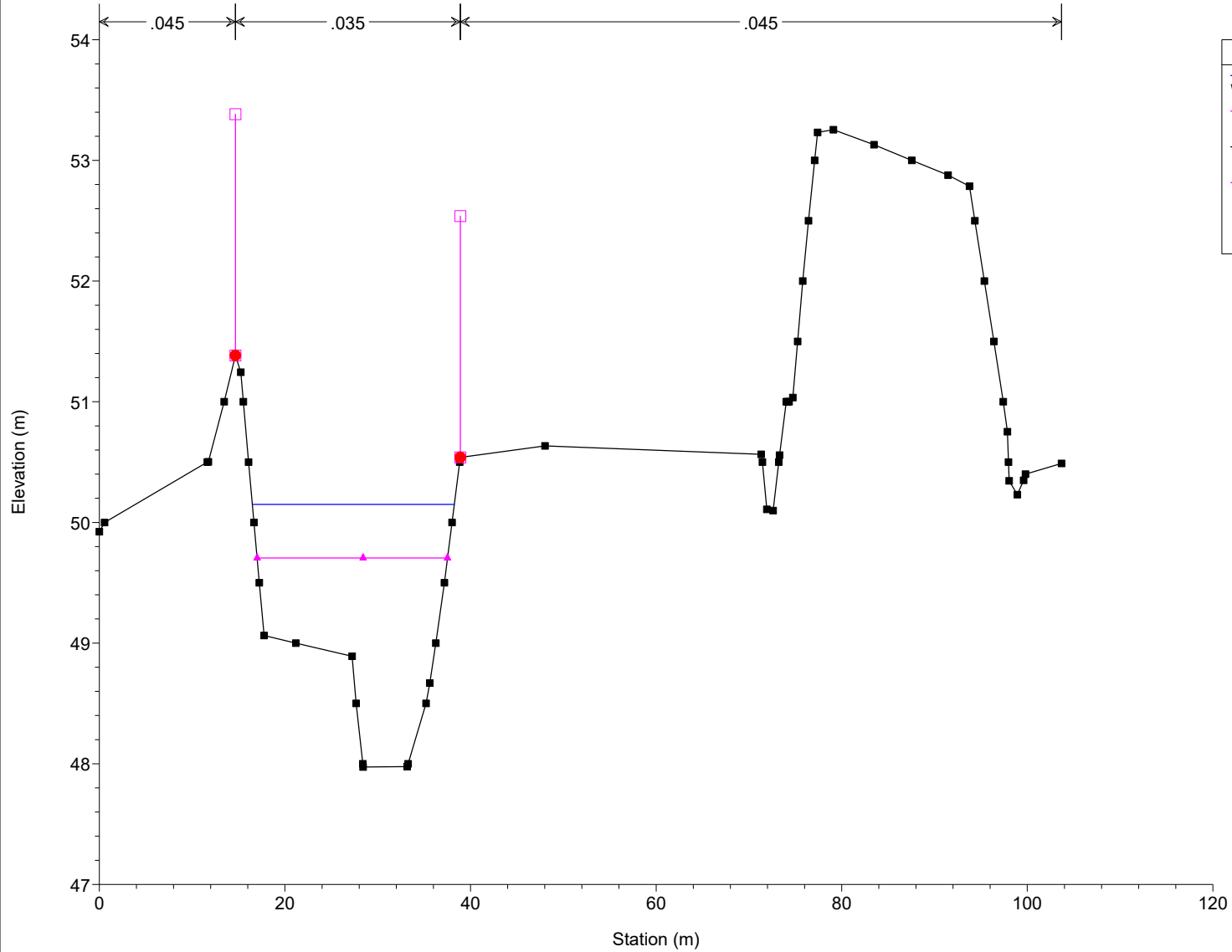
River = Rio Morto Reach = Rio Morto RS = -37



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	

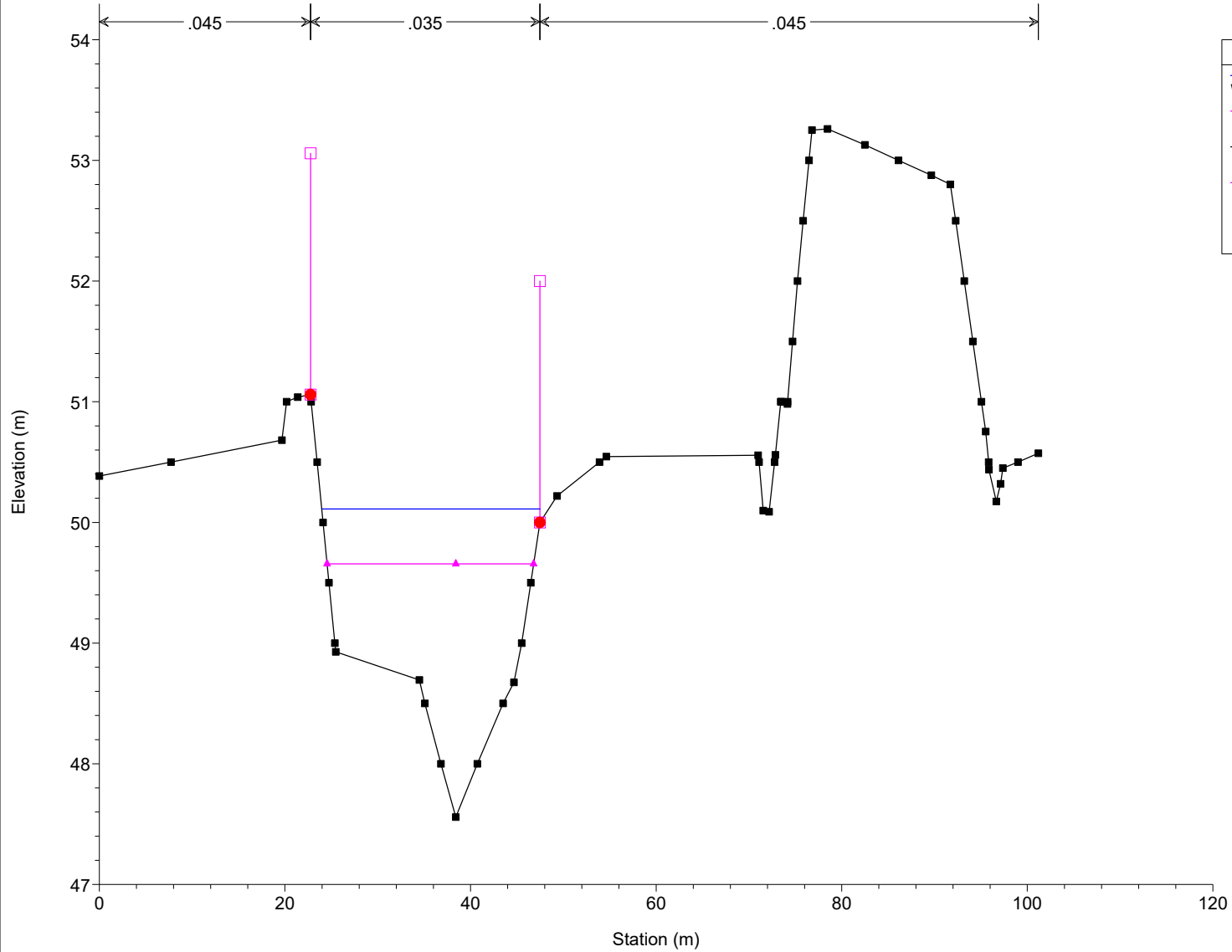
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -38



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

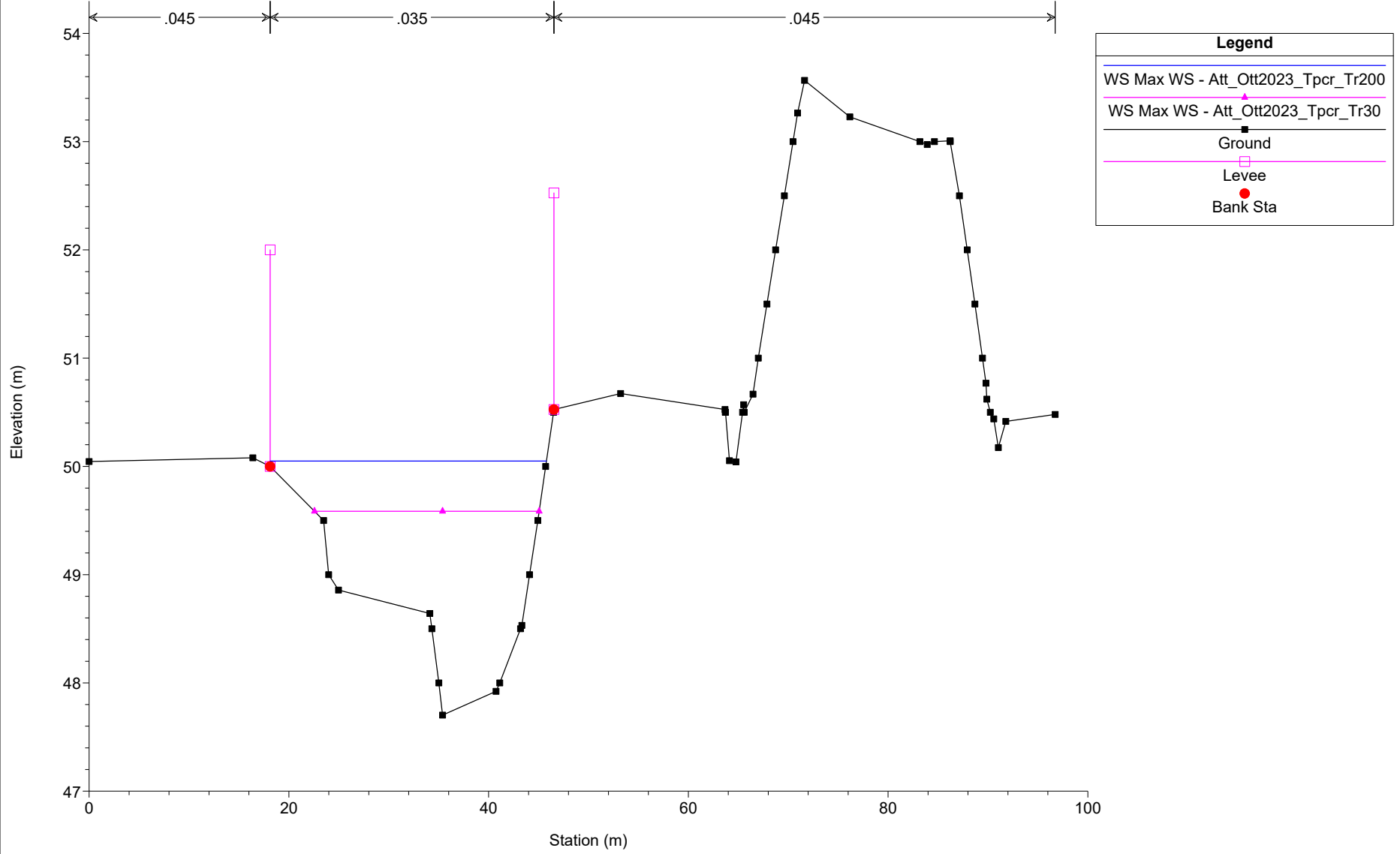
River = Rio Morto Reach = Rio Morto RS = -39



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—
WS Max WS - Att_Ott2023_Tpcr_Tr30	—▲—
Ground	—■—
Levee	—□—
Bank Sta	●

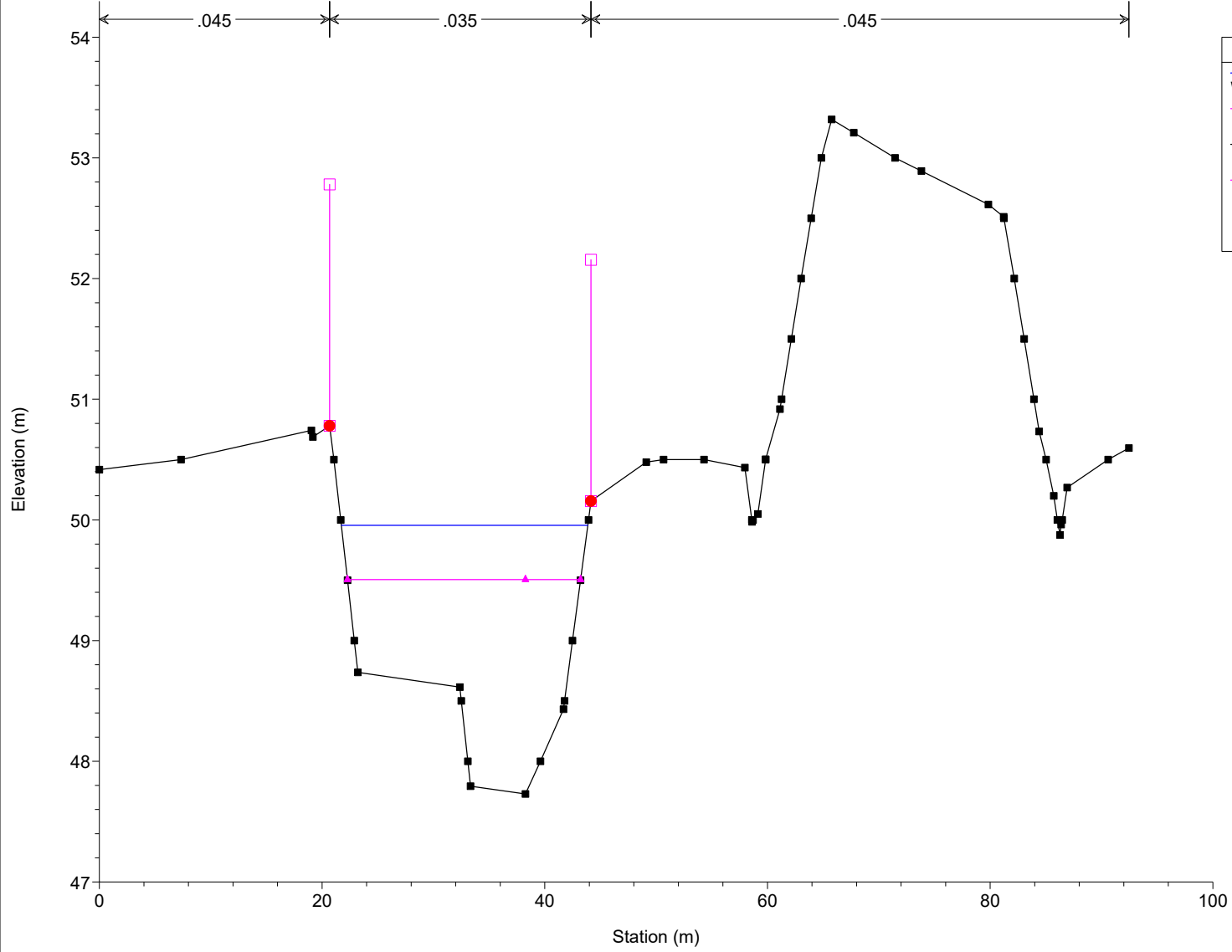
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -40



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

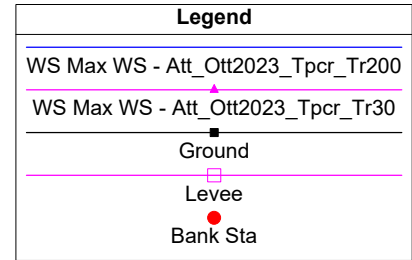
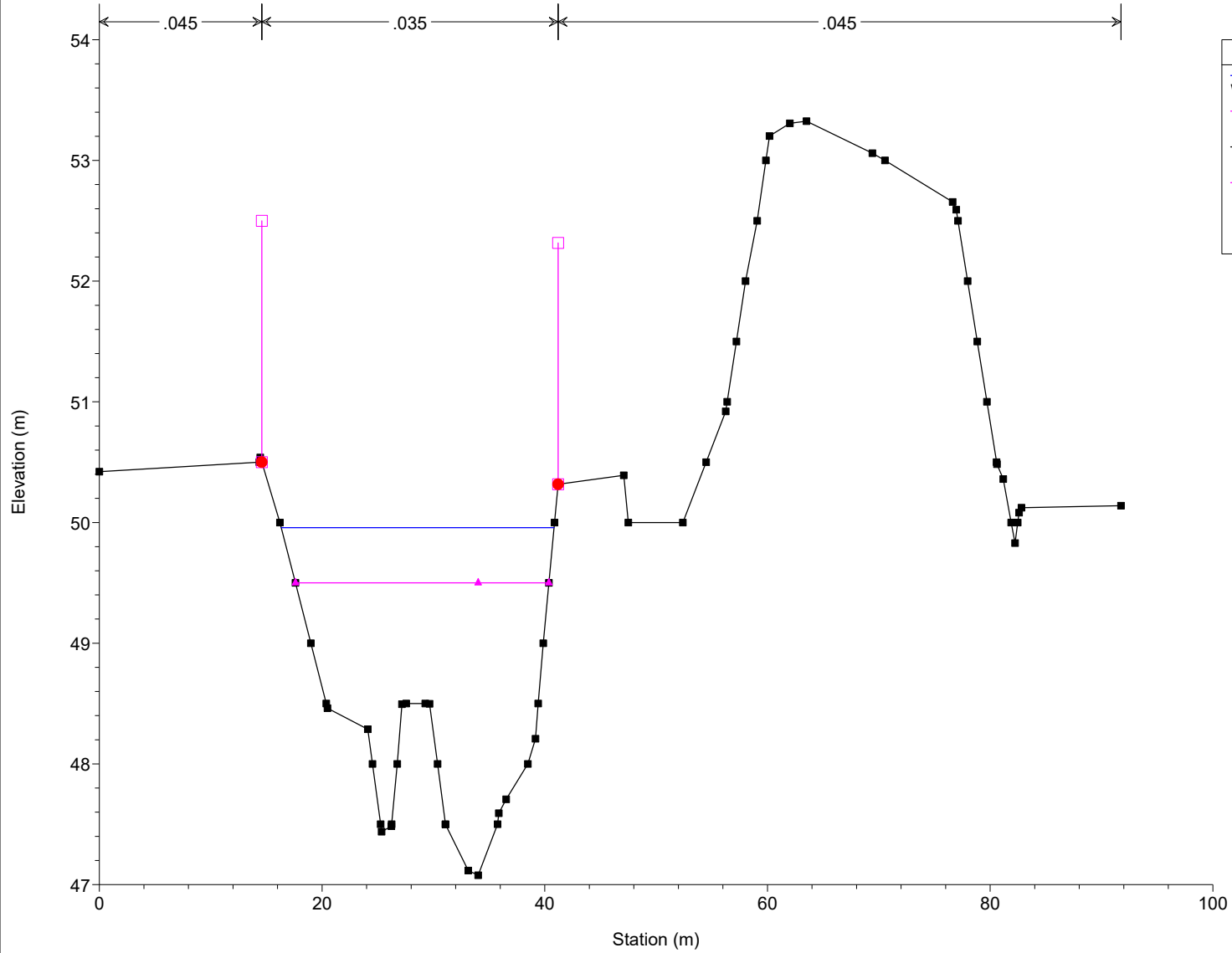
River = Rio Morto Reach = Rio Morto RS = -41



Legend	
—▲—	WS Max WS - Att_Ott2023_Tpcr_Tr200
—▲—	WS Max WS - Att_Ott2023_Tpcr_Tr30
—■—	Ground
—□—	Levee
●	Bank Sta

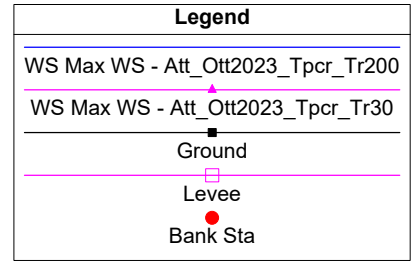
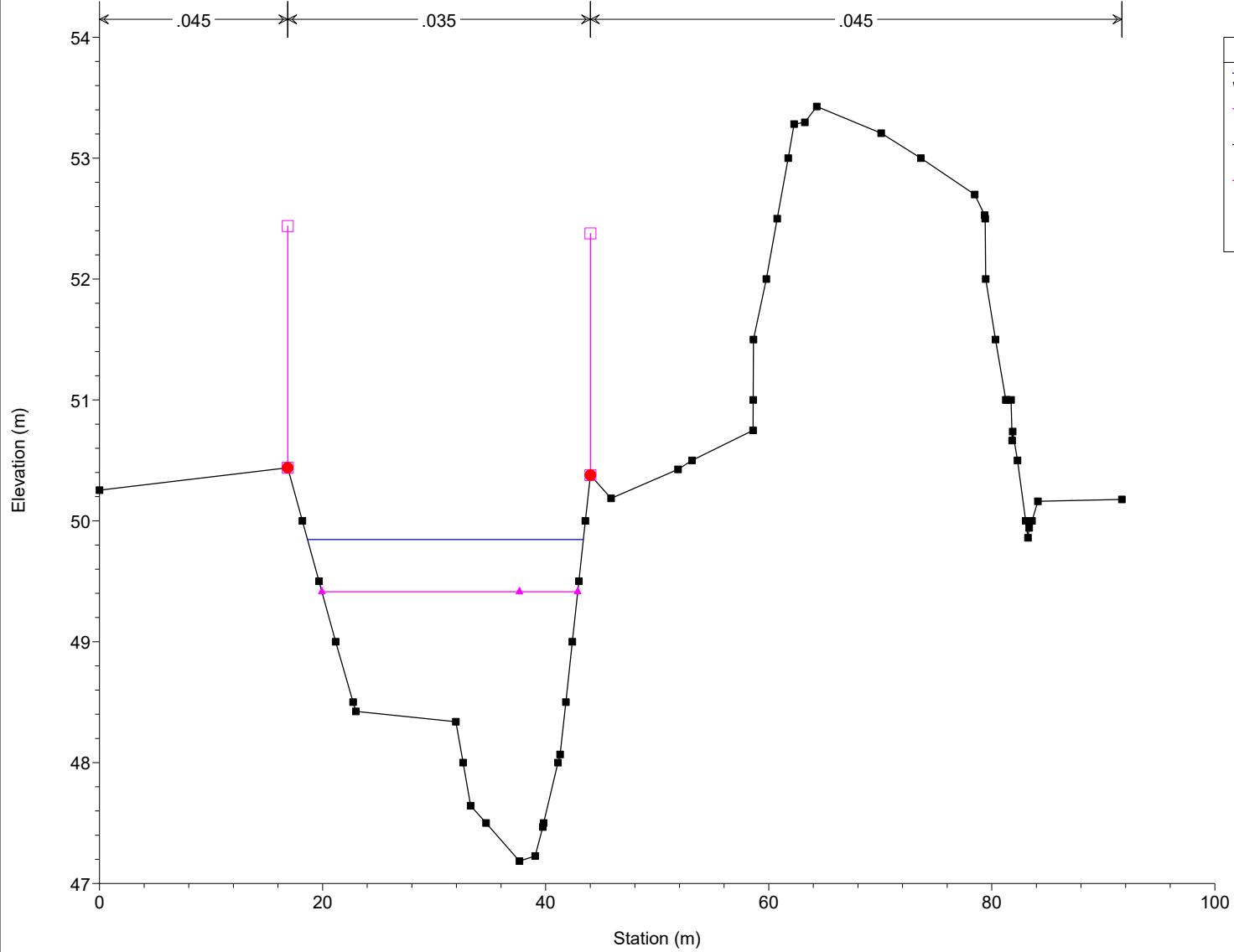
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -42



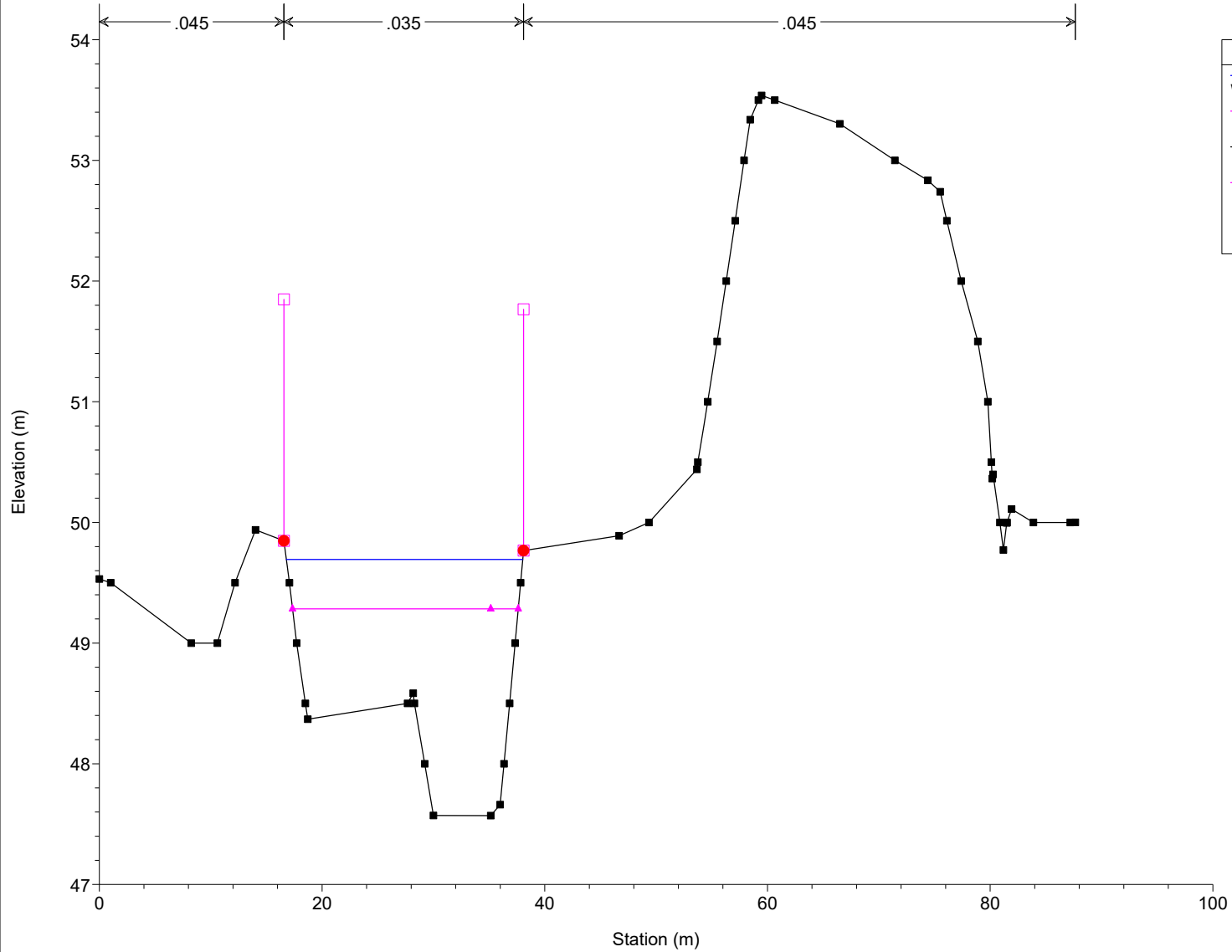
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -43



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -44

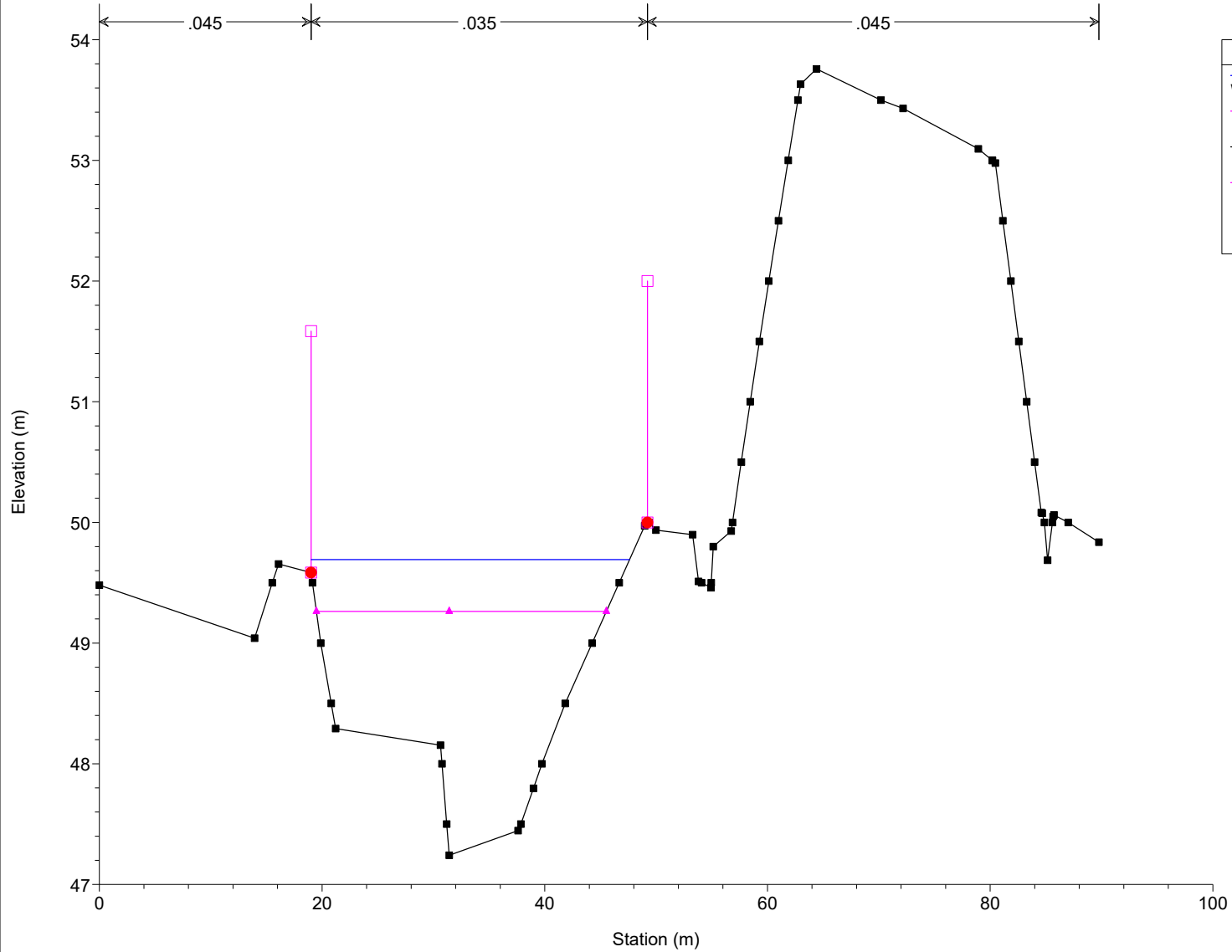


Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	



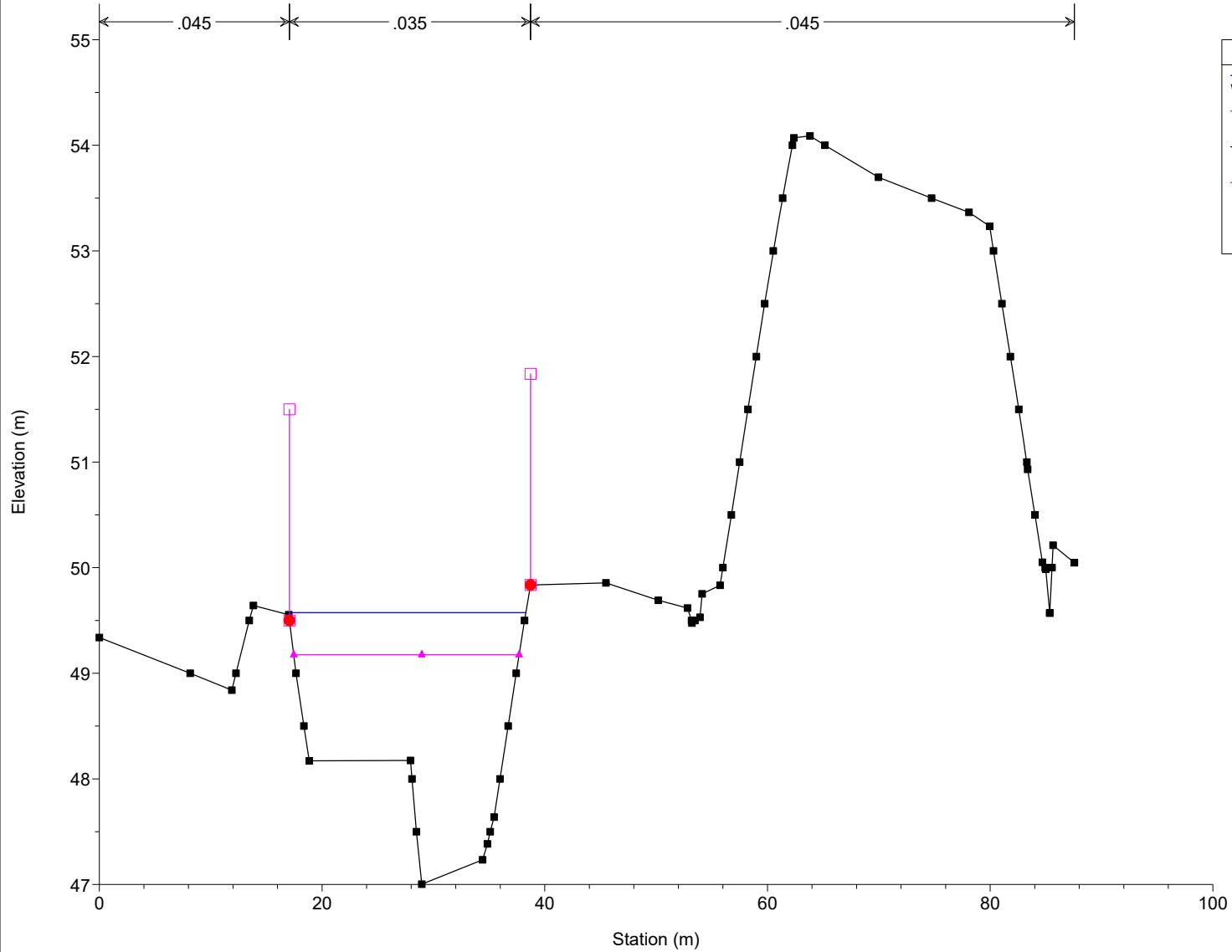
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -45



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

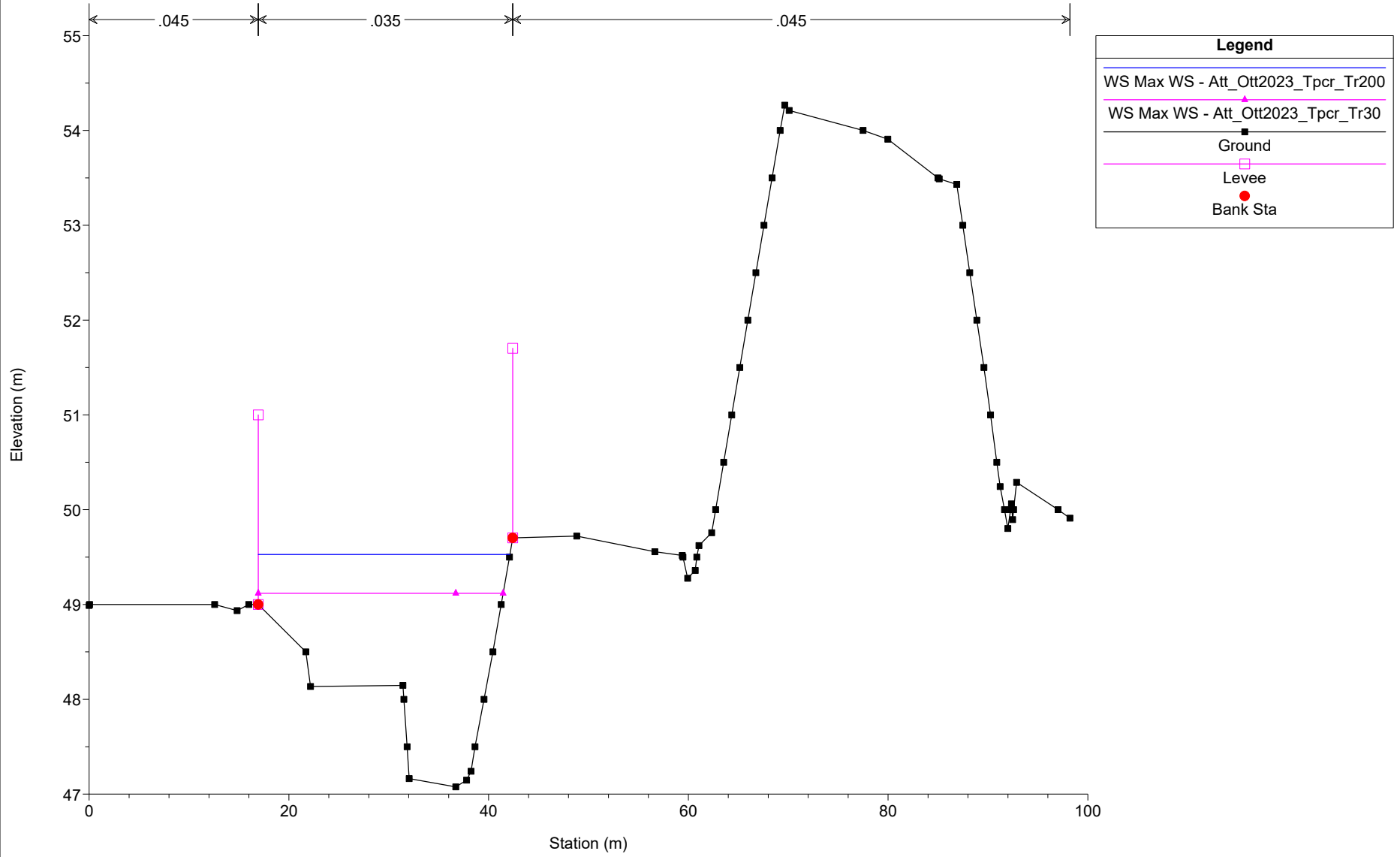
River = Rio Morto Reach = Rio Morto RS = -46



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	— (Blue line)
WS Max WS - Att_Ott2023_Tpcr_Tr30	— (Magenta line)
Ground	— (Black line)
Levee	— (Magenta line)
Bank Sta	• (Red dot)

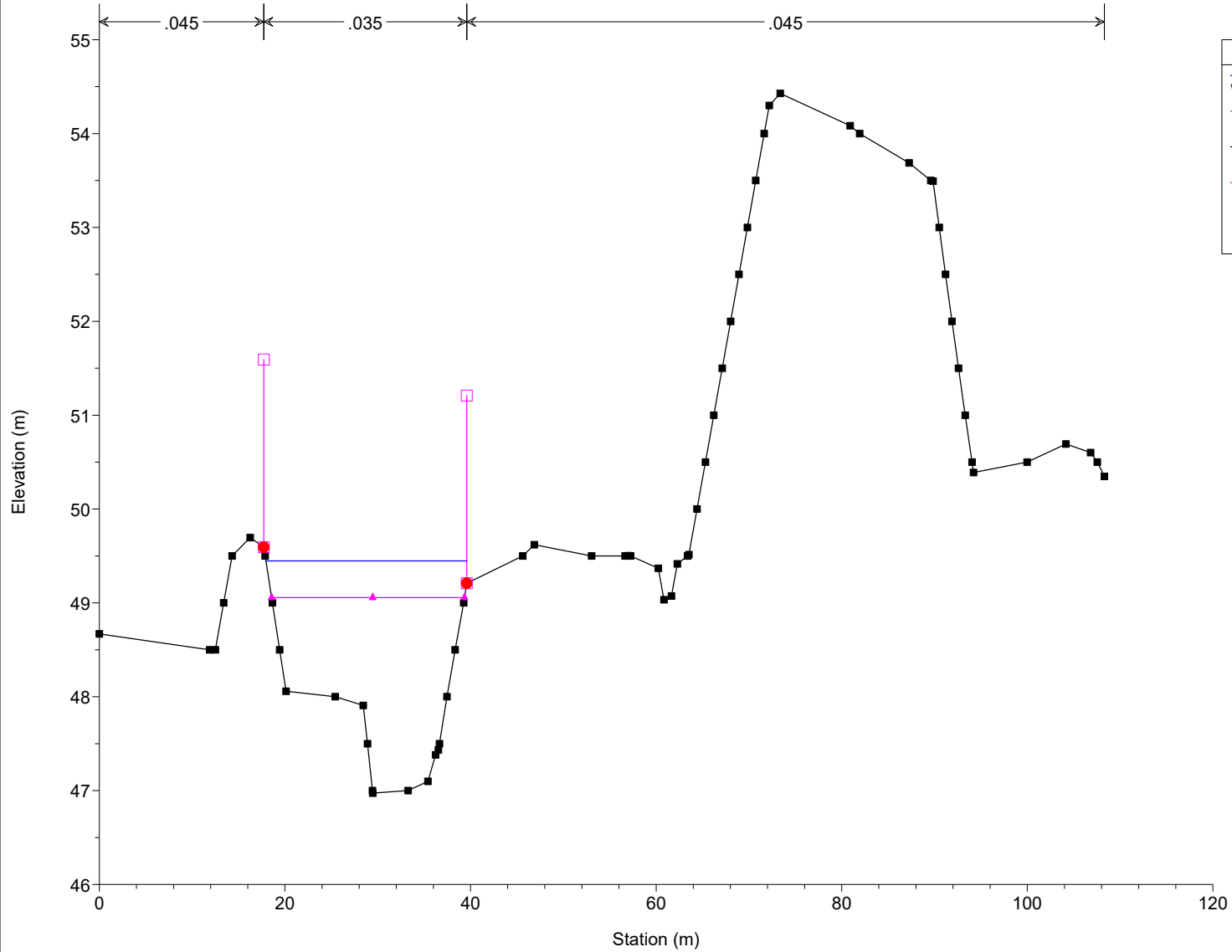
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -47



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

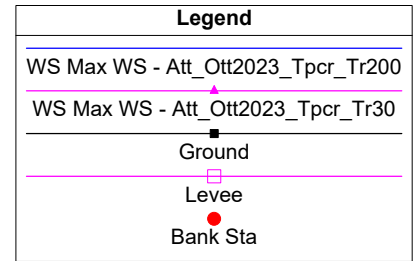
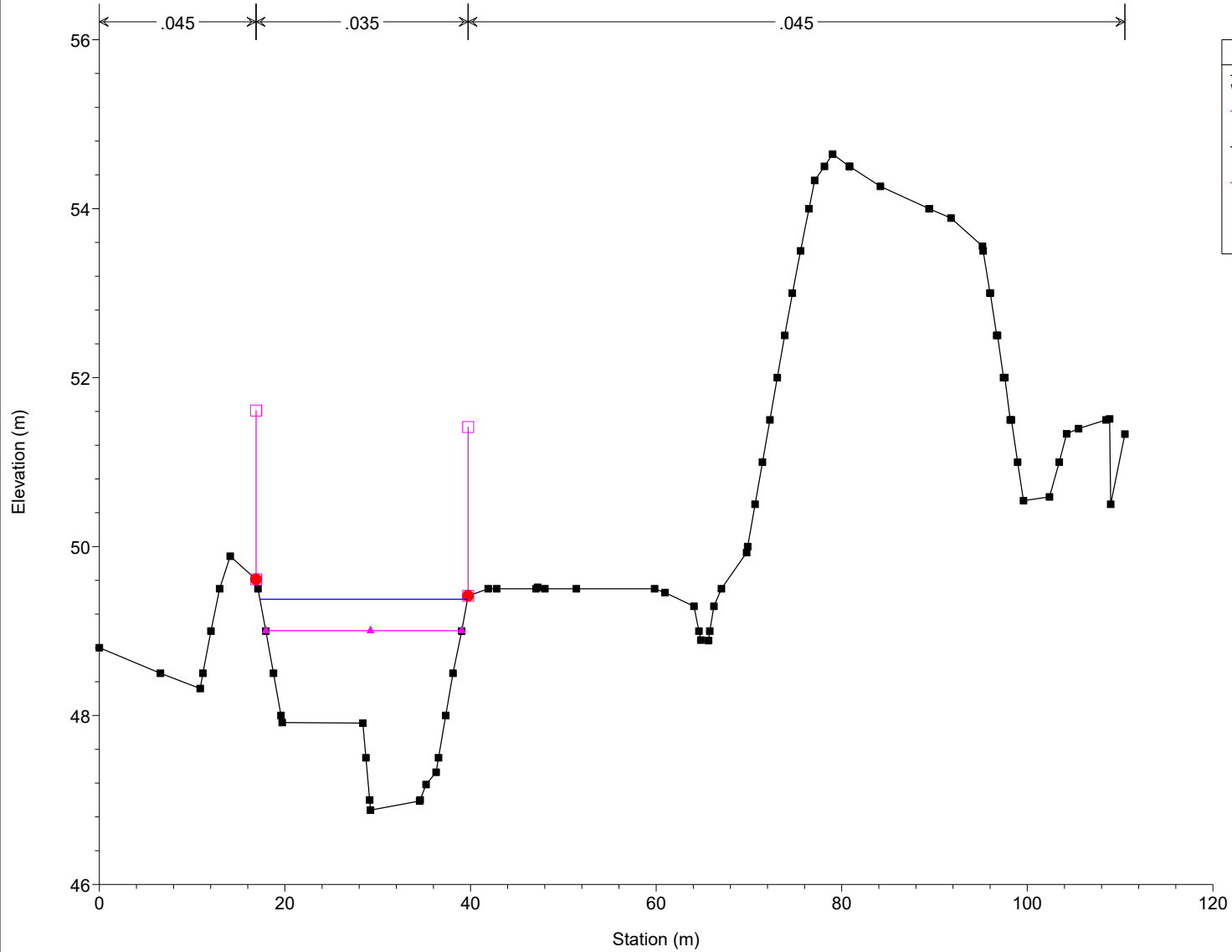
River = Rio Morto Reach = Rio Morto RS = -48



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	

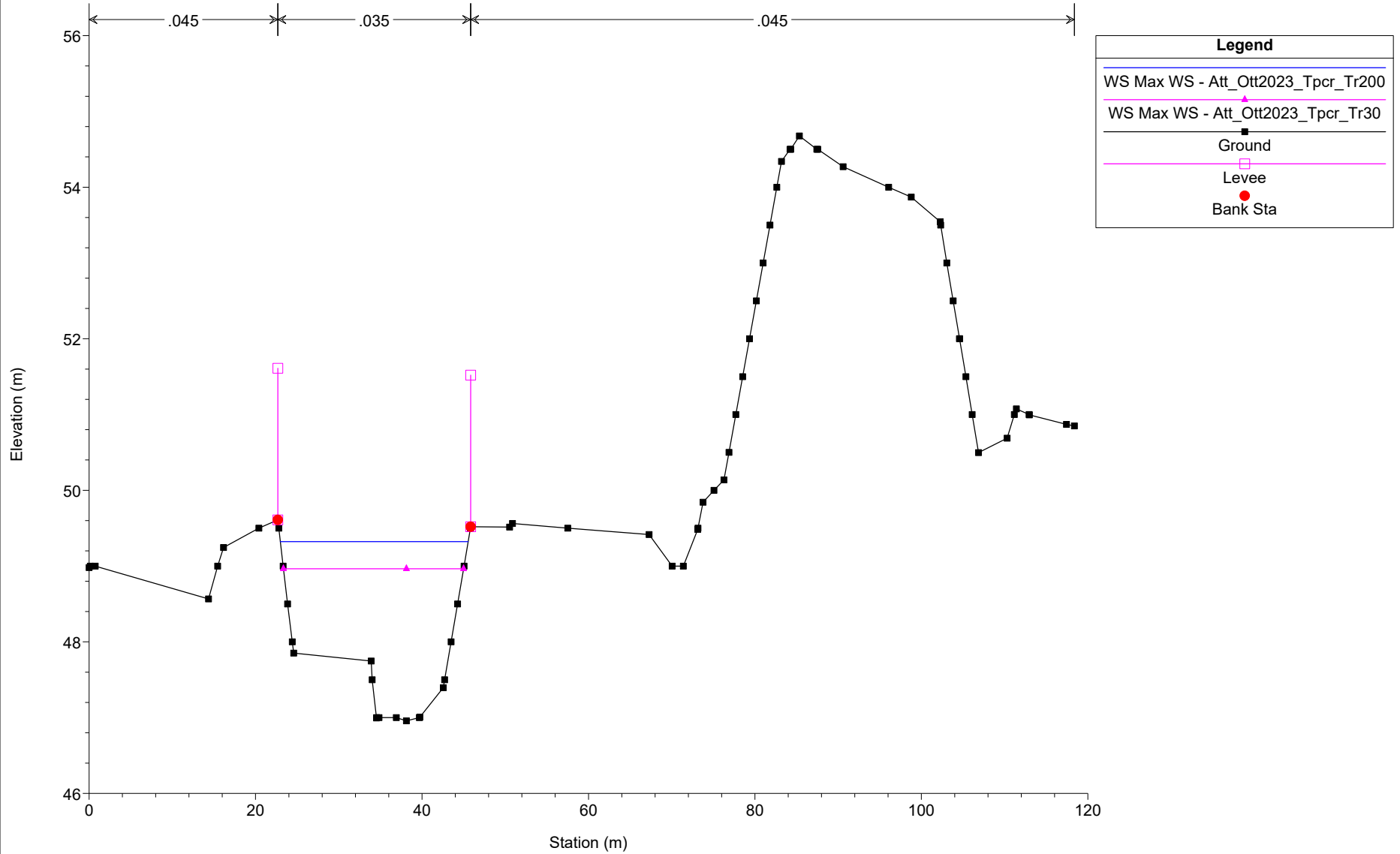
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -49



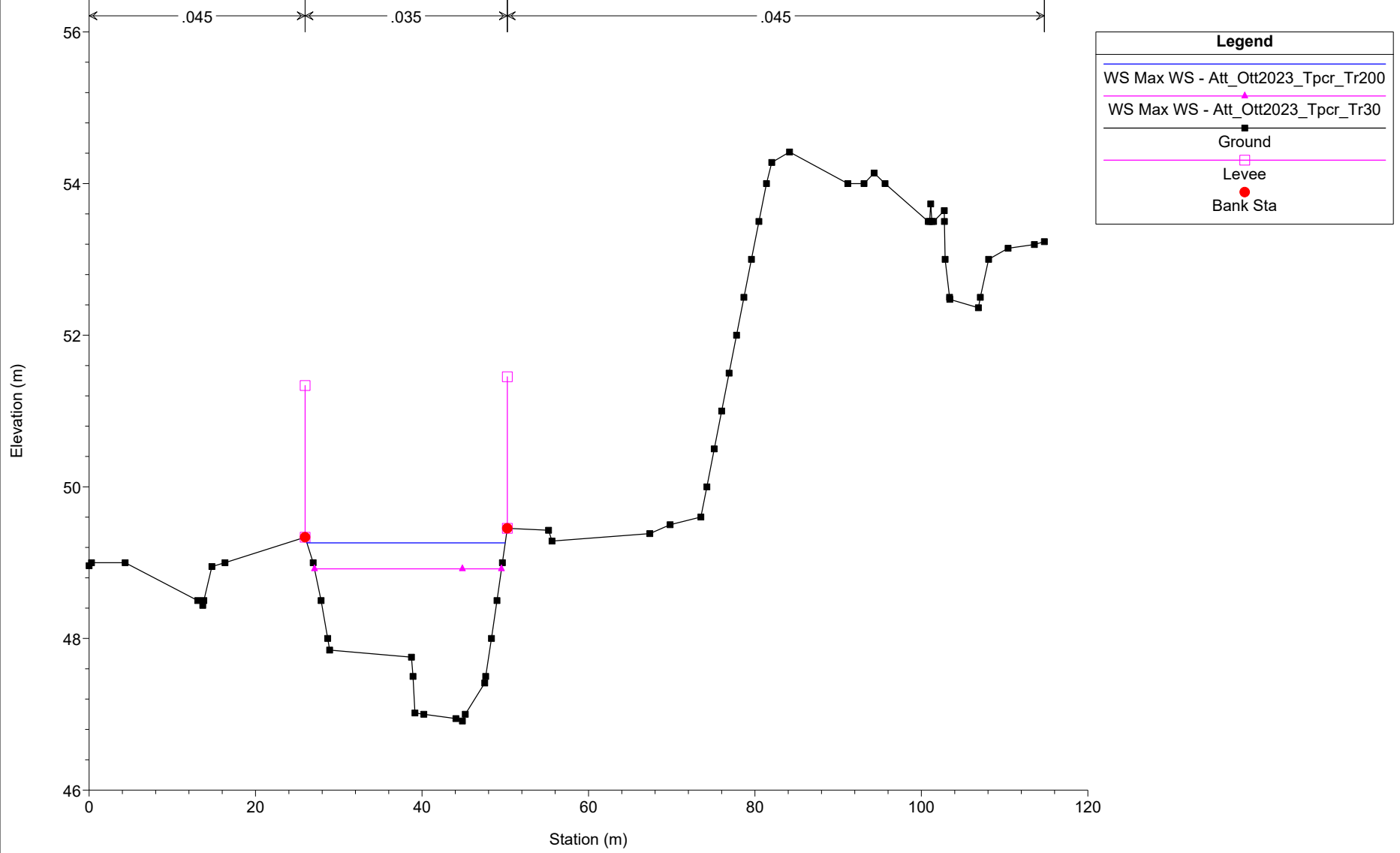
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -50



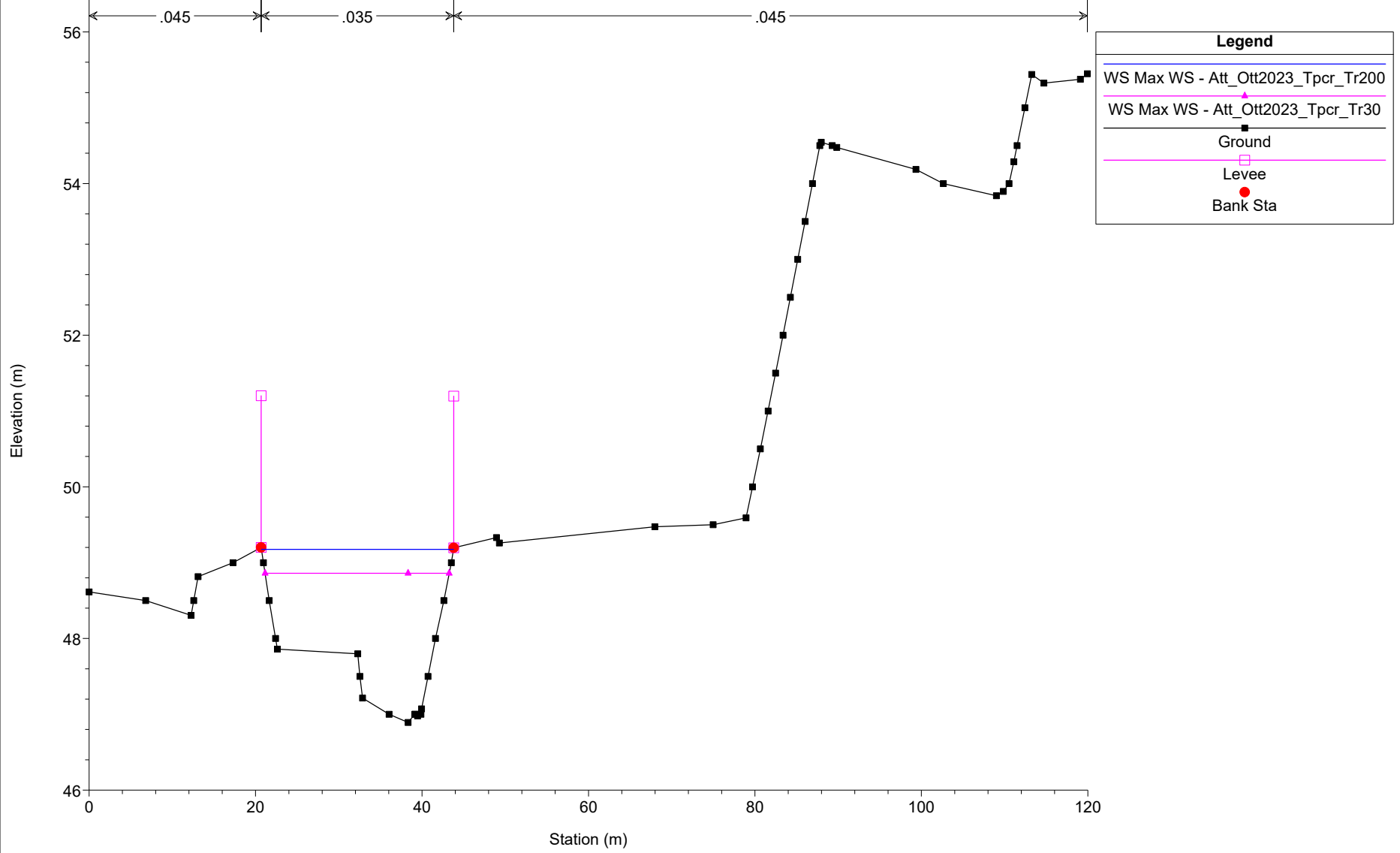
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -51



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

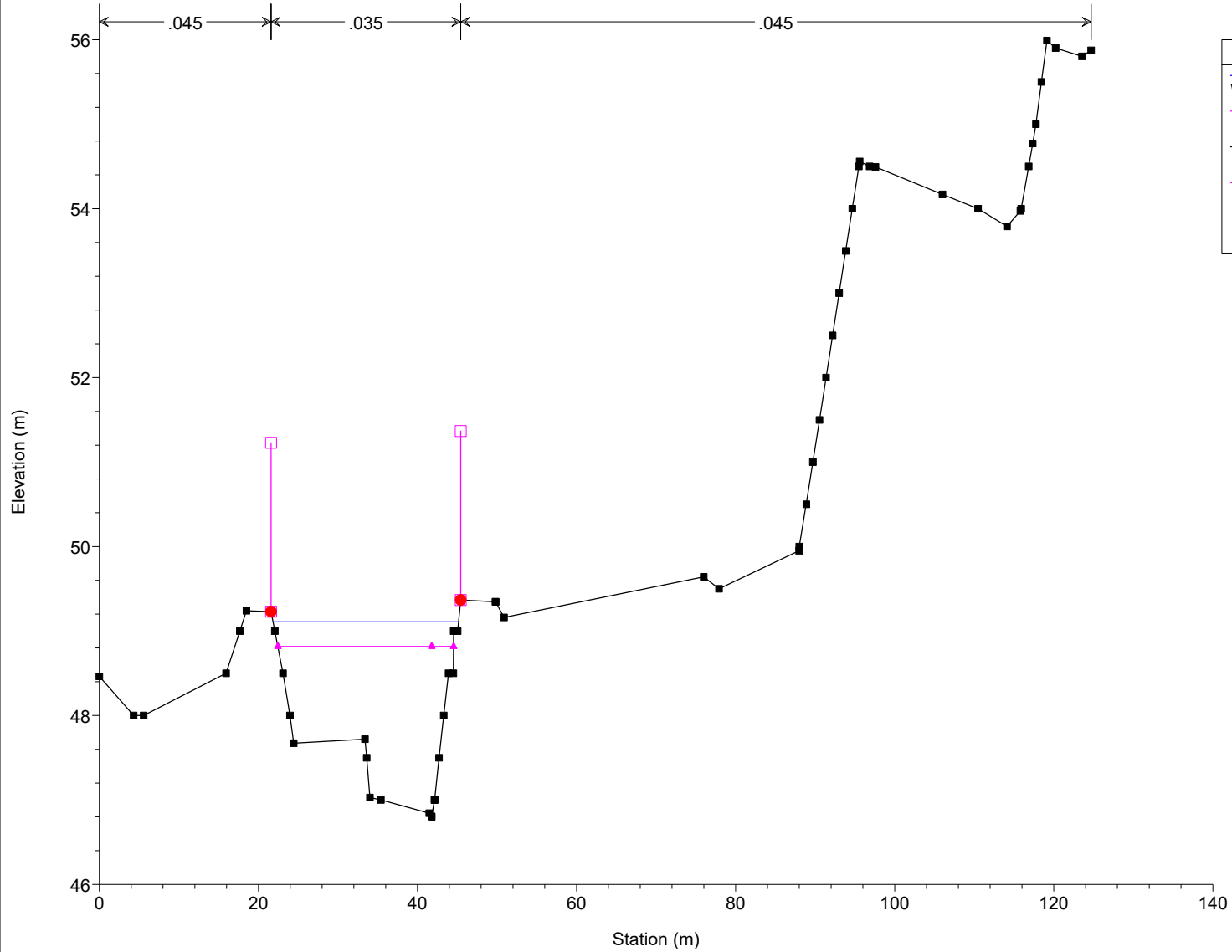
River = Rio Morto Reach = Rio Morto RS = -52





1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

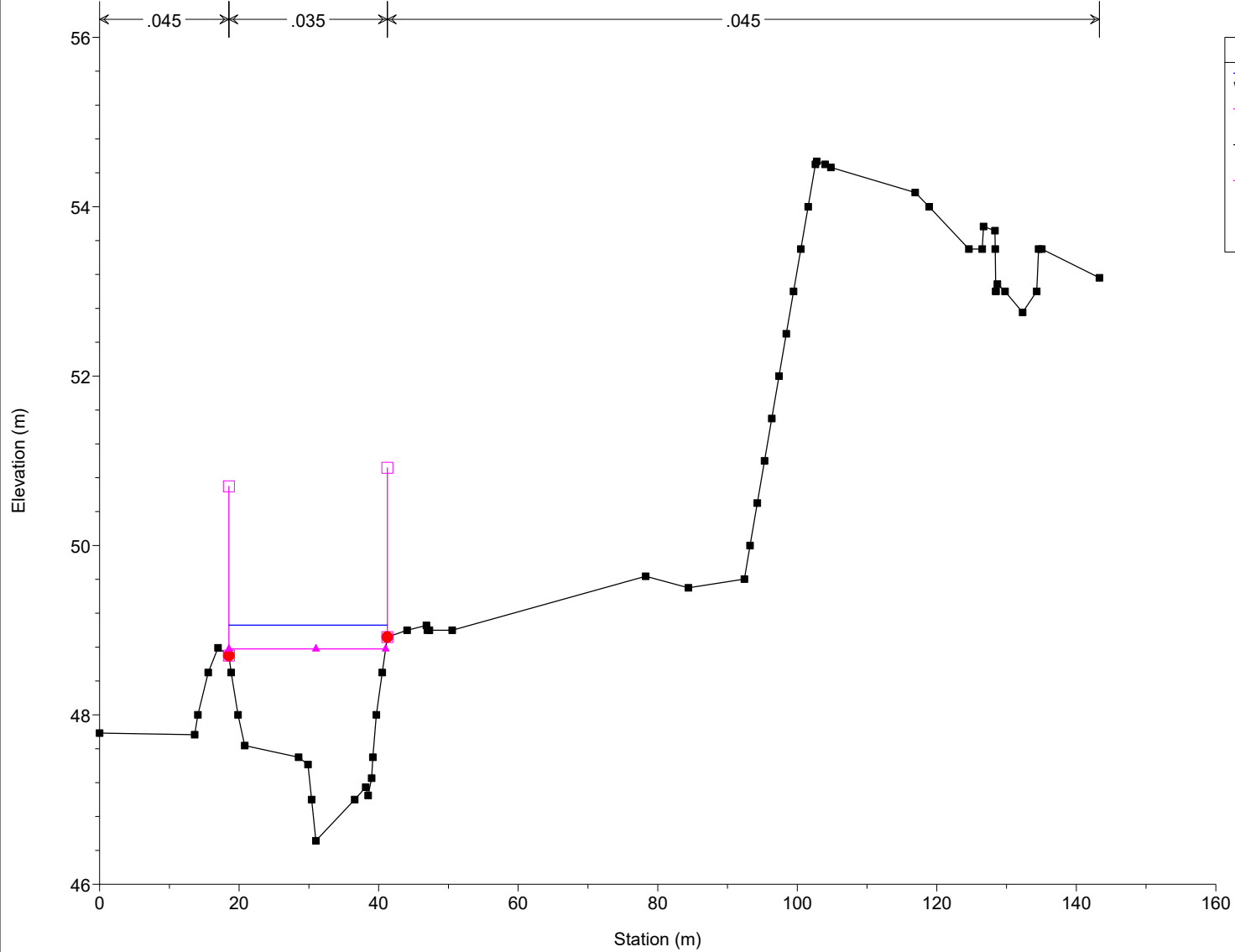
River = Rio Morto Reach = Rio Morto RS = -53



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

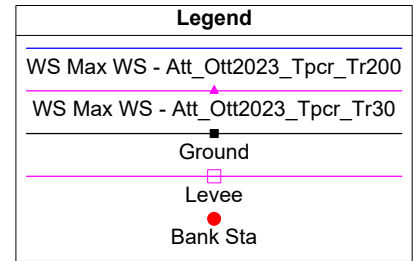
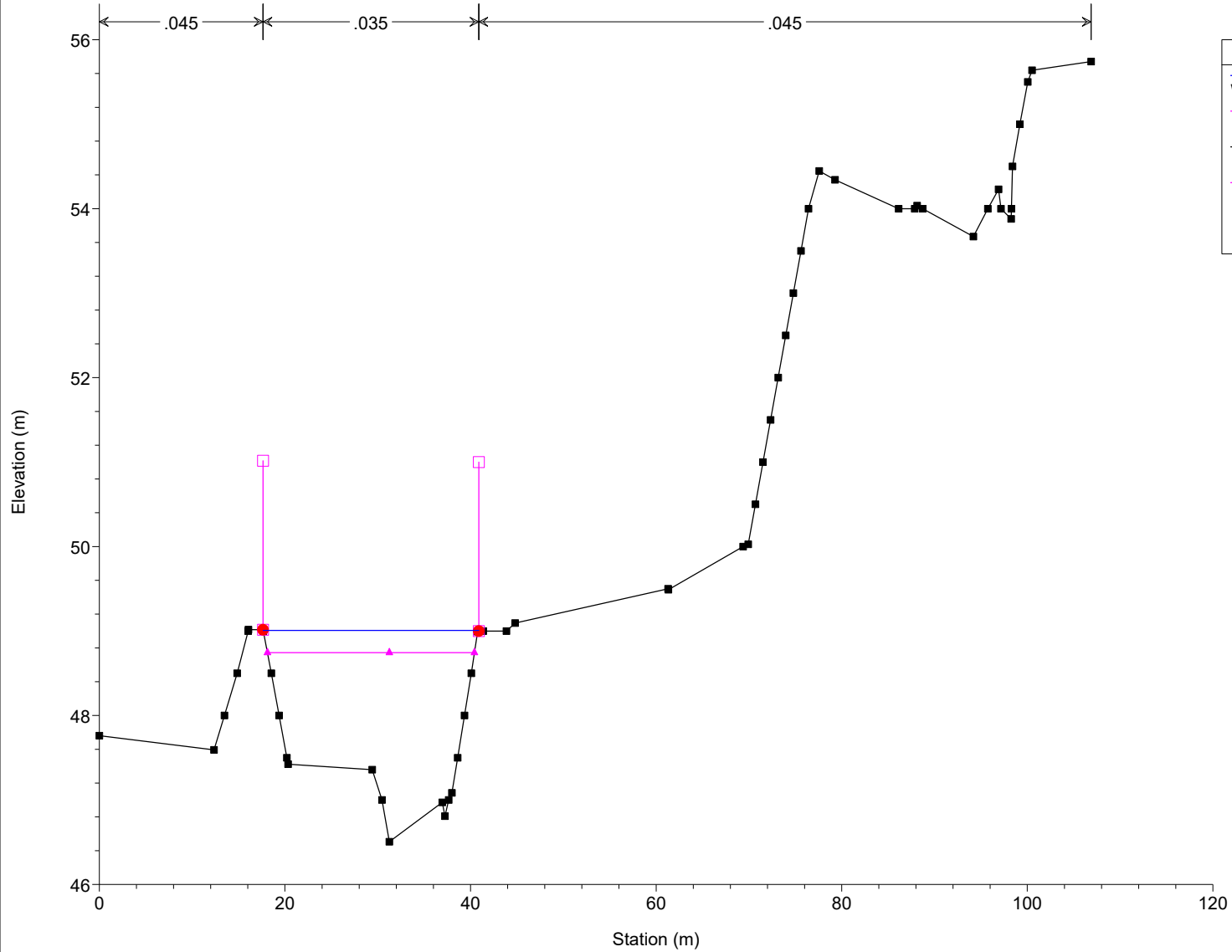
River = Rio Morto Reach = Rio Morto RS = -54



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

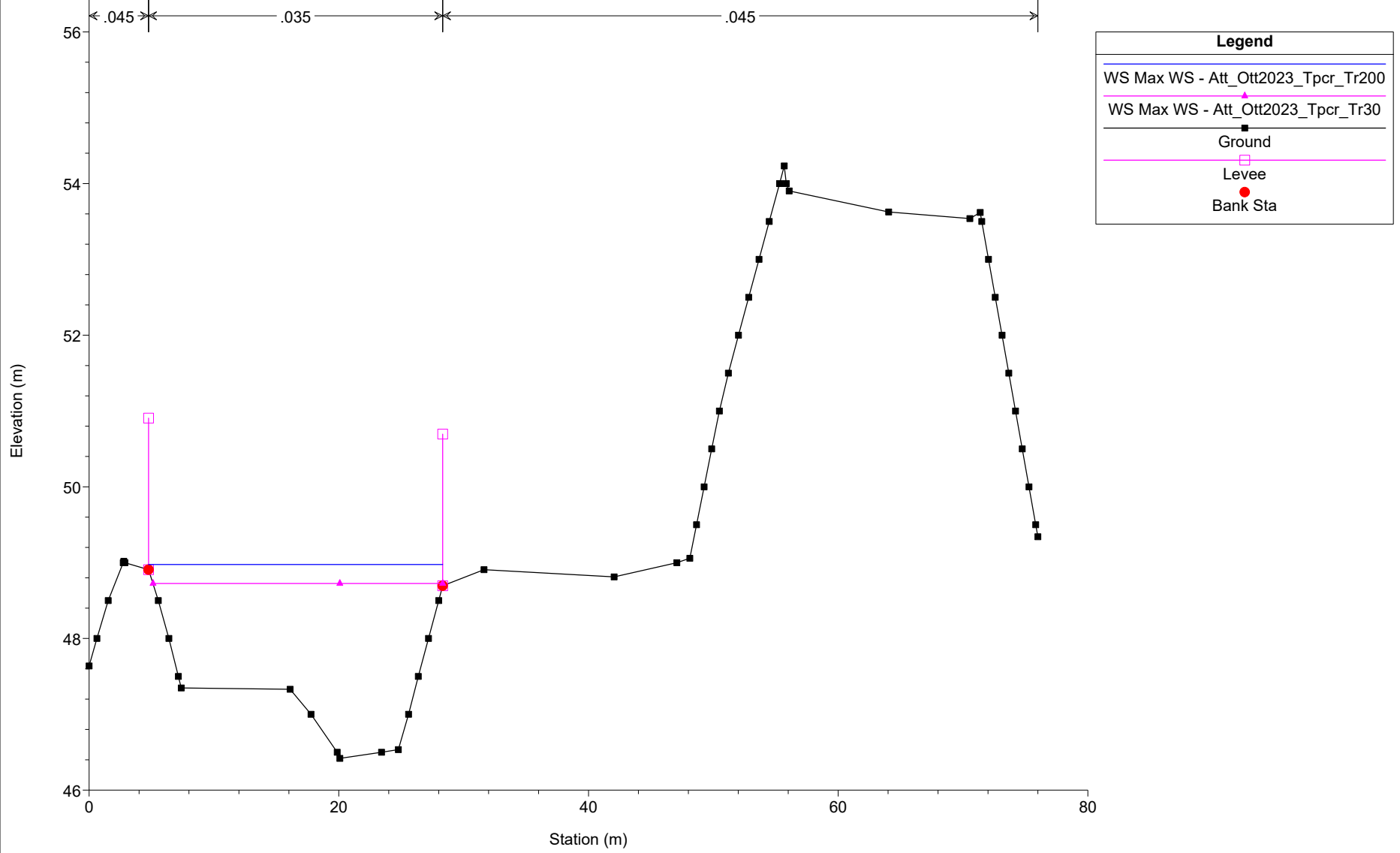
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -55



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -56

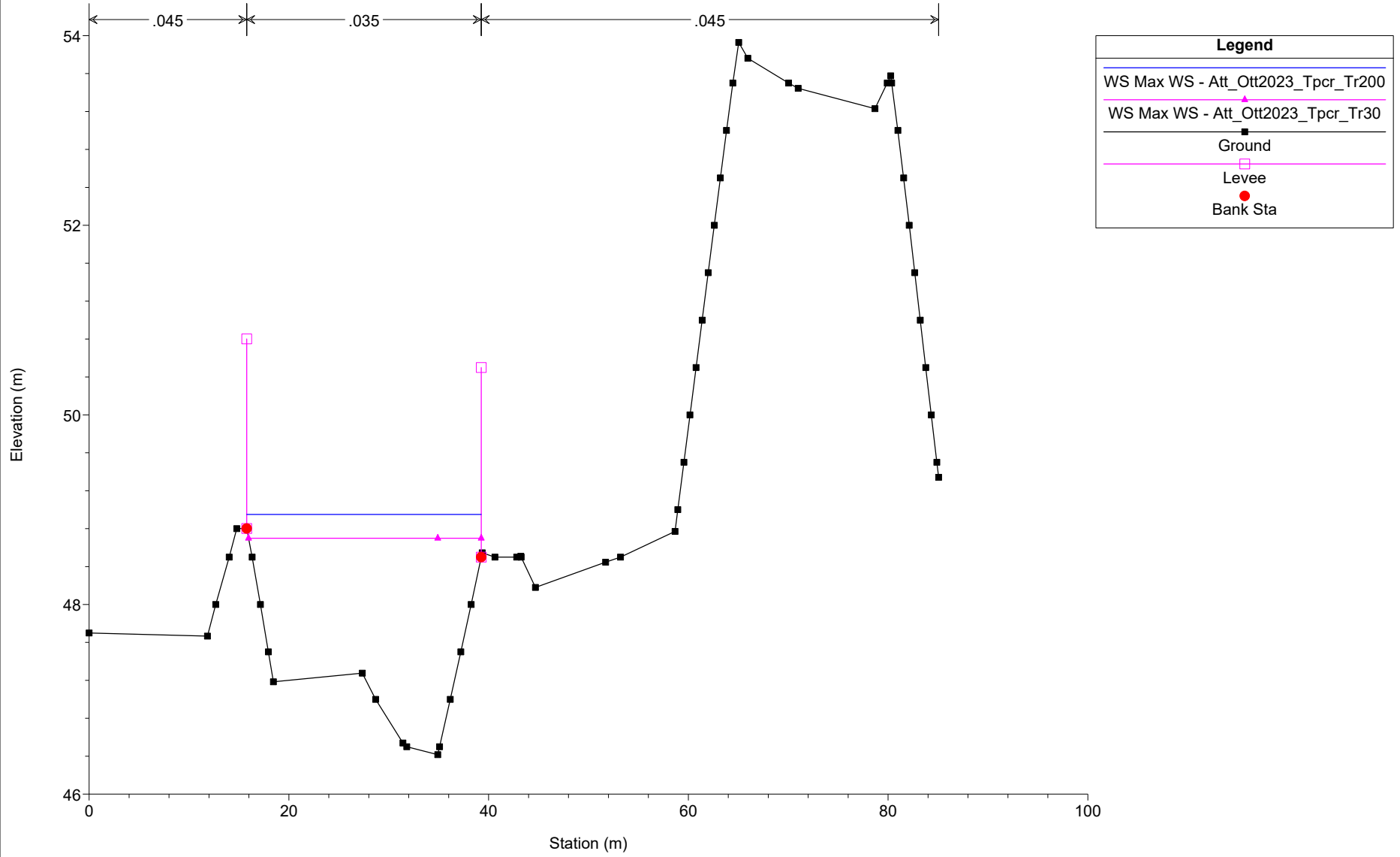


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- WS Max WS - Att\_Ott2023\_Tpcr\_Tr30
- Ground
- Levee
- Bank Sta

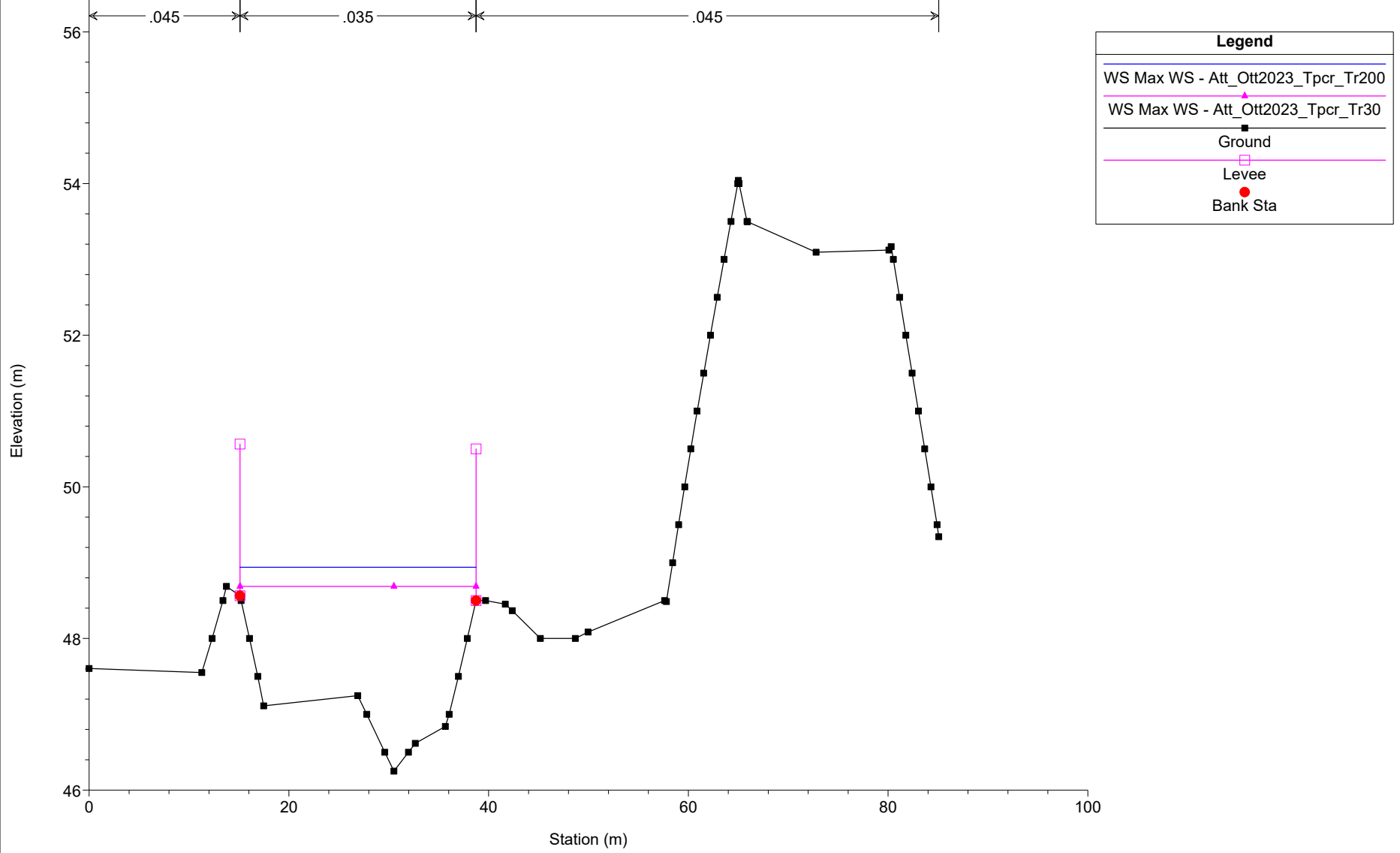
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -57



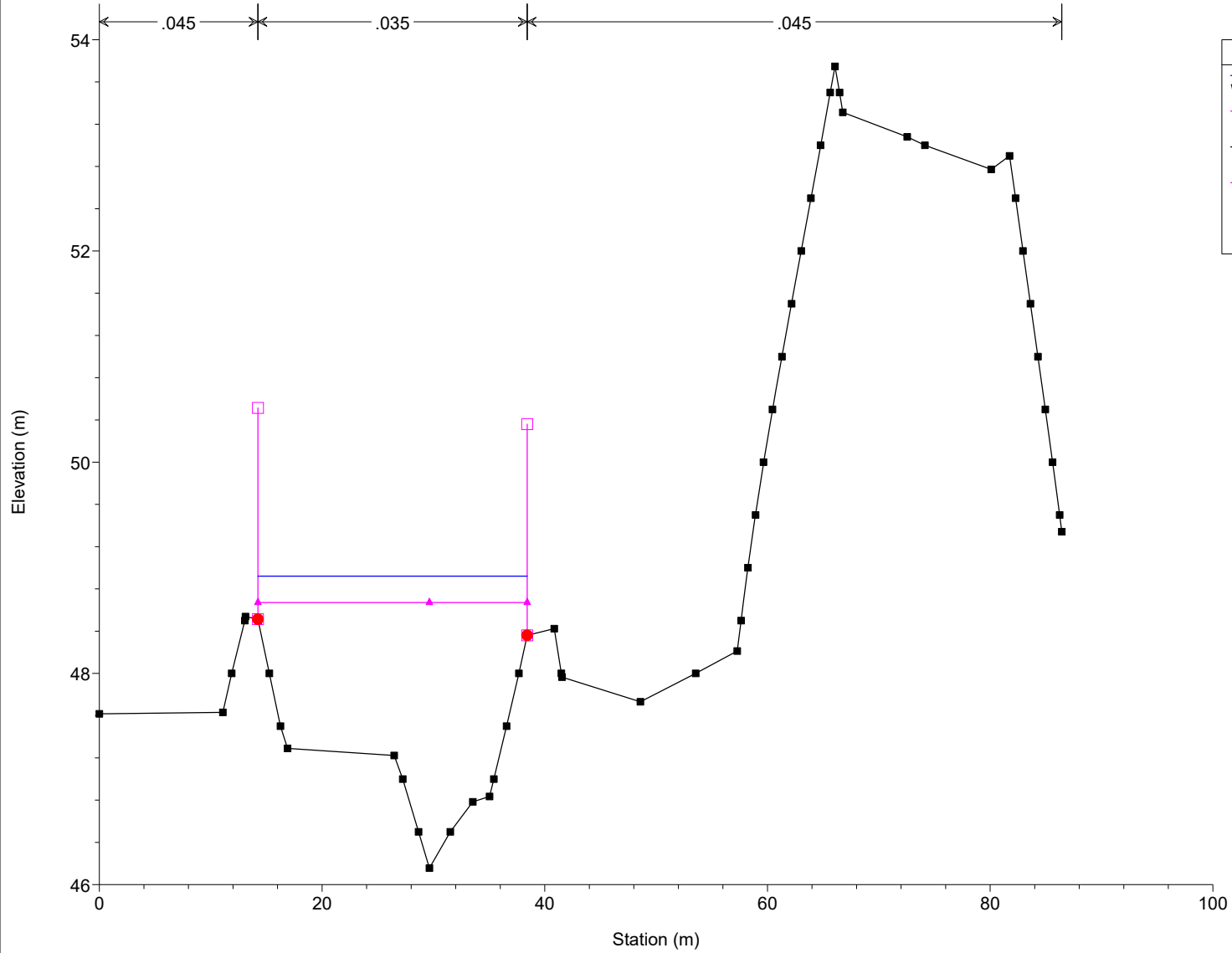
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -58



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

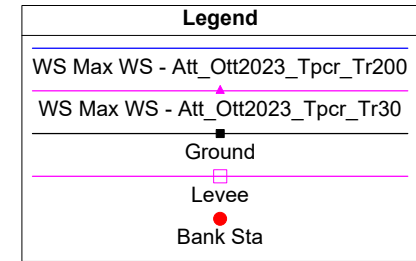
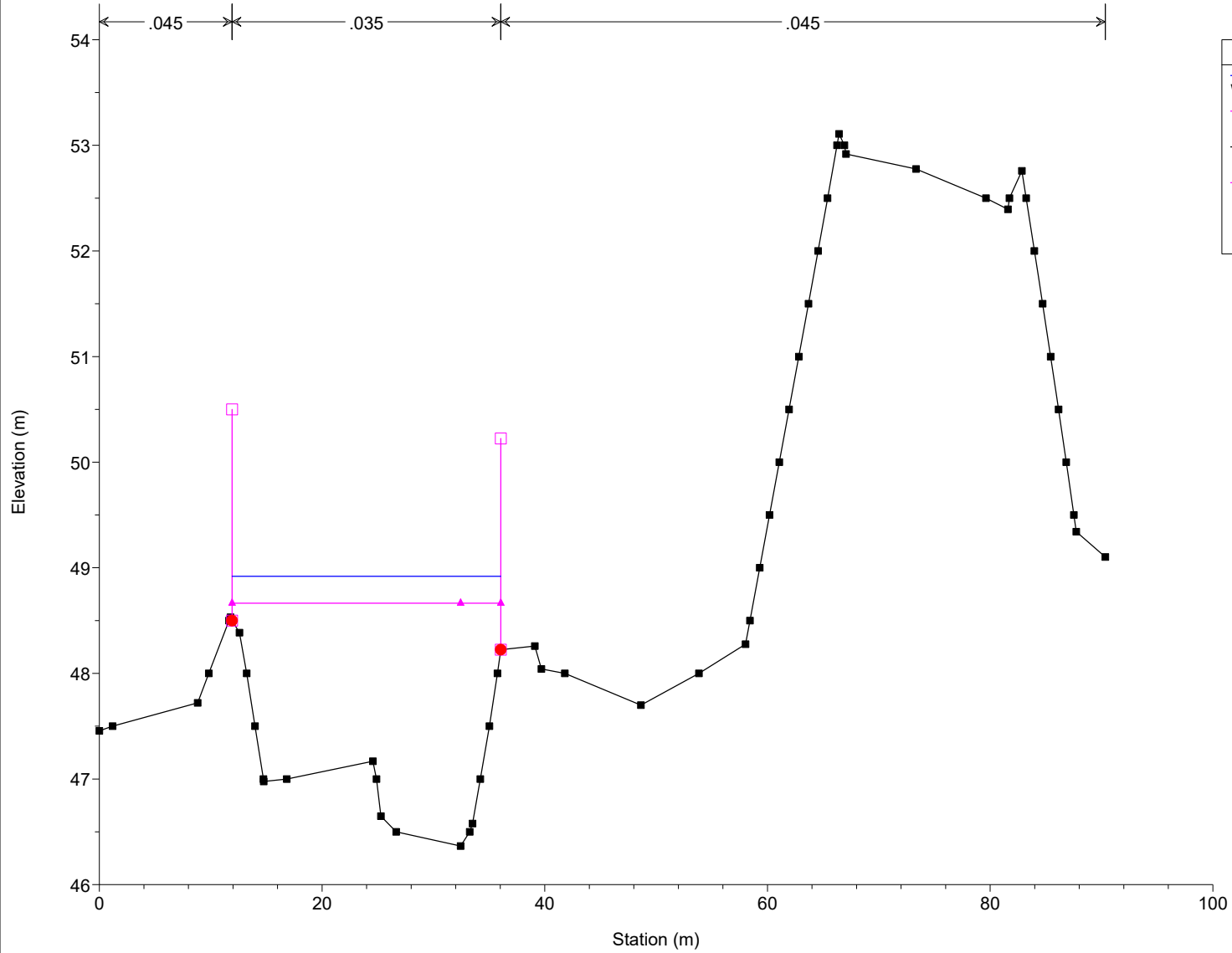
River = Rio Morto Reach = Rio Morto RS = -59



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

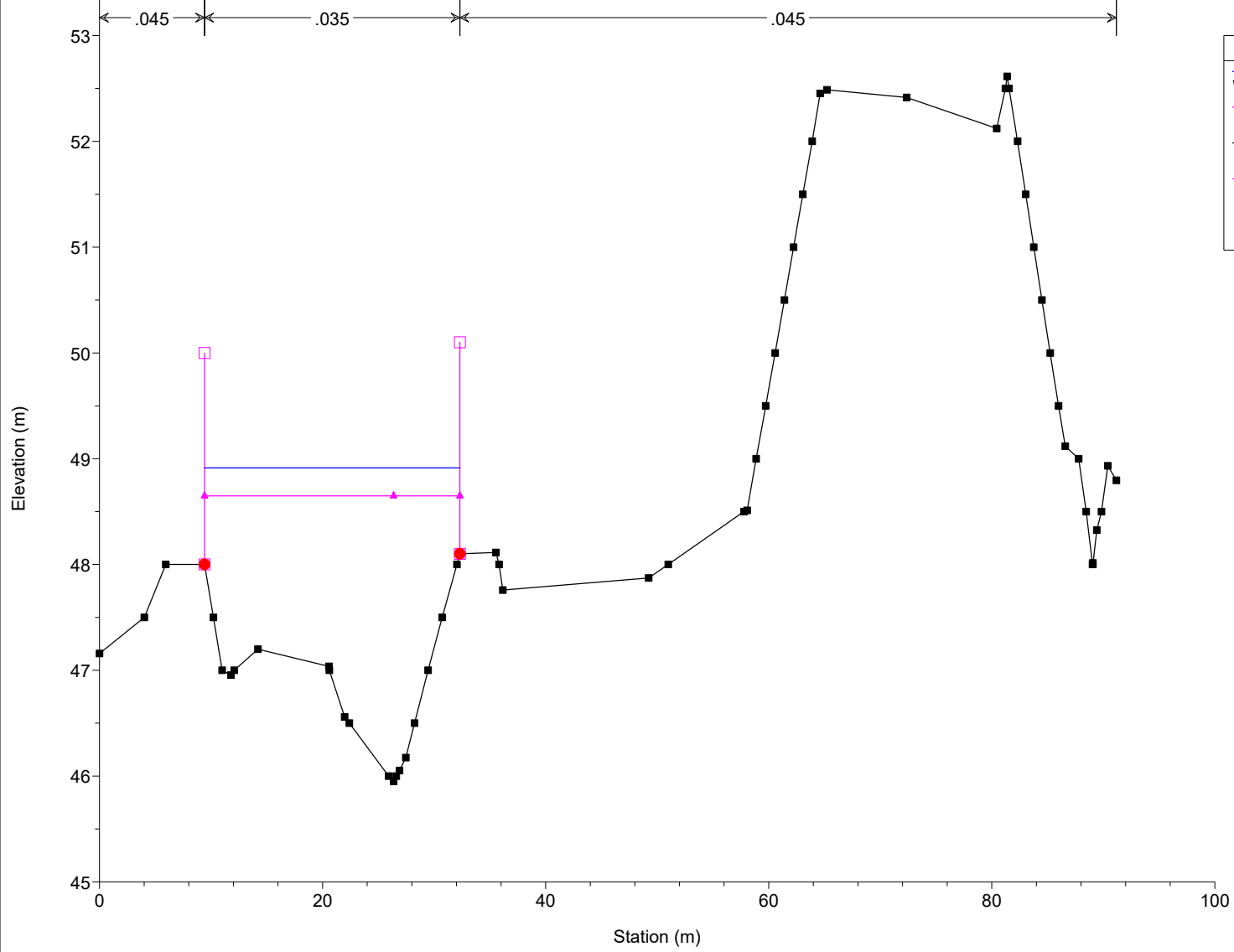
River = Rio Morto Reach = Rio Morto RS = -60





1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

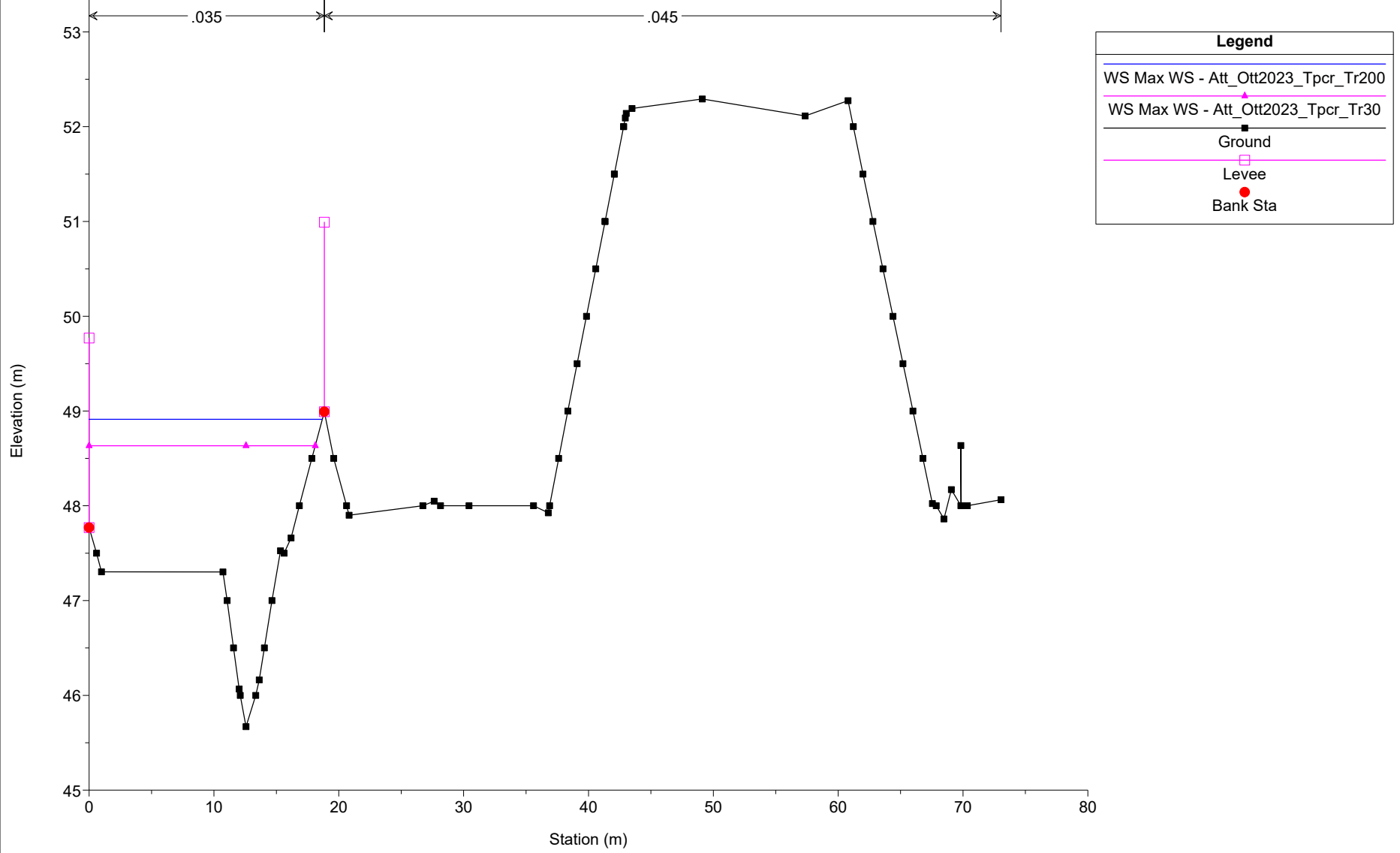
River = Rio Morto Reach = Rio Morto RS = -61



Legend	
—■—	WS Max WS - Att_Ott2023_Tpcr_Tr200
—▲—	WS Max WS - Att_Ott2023_Tpcr_Tr30
—■—	Ground
—□—	Levee
●	Bank Sta

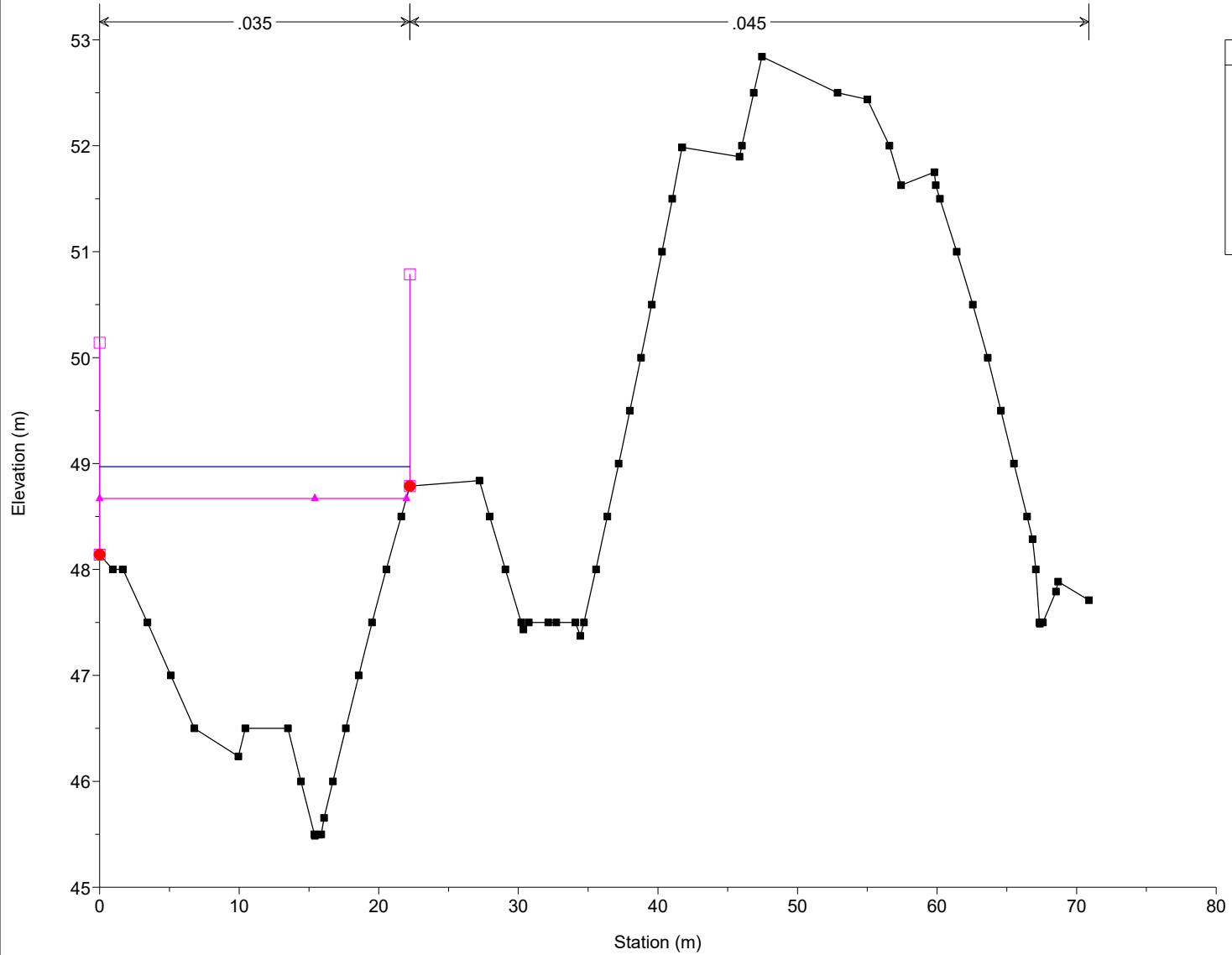
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -62



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

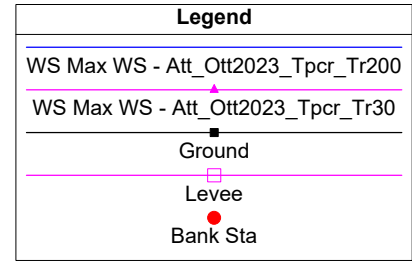
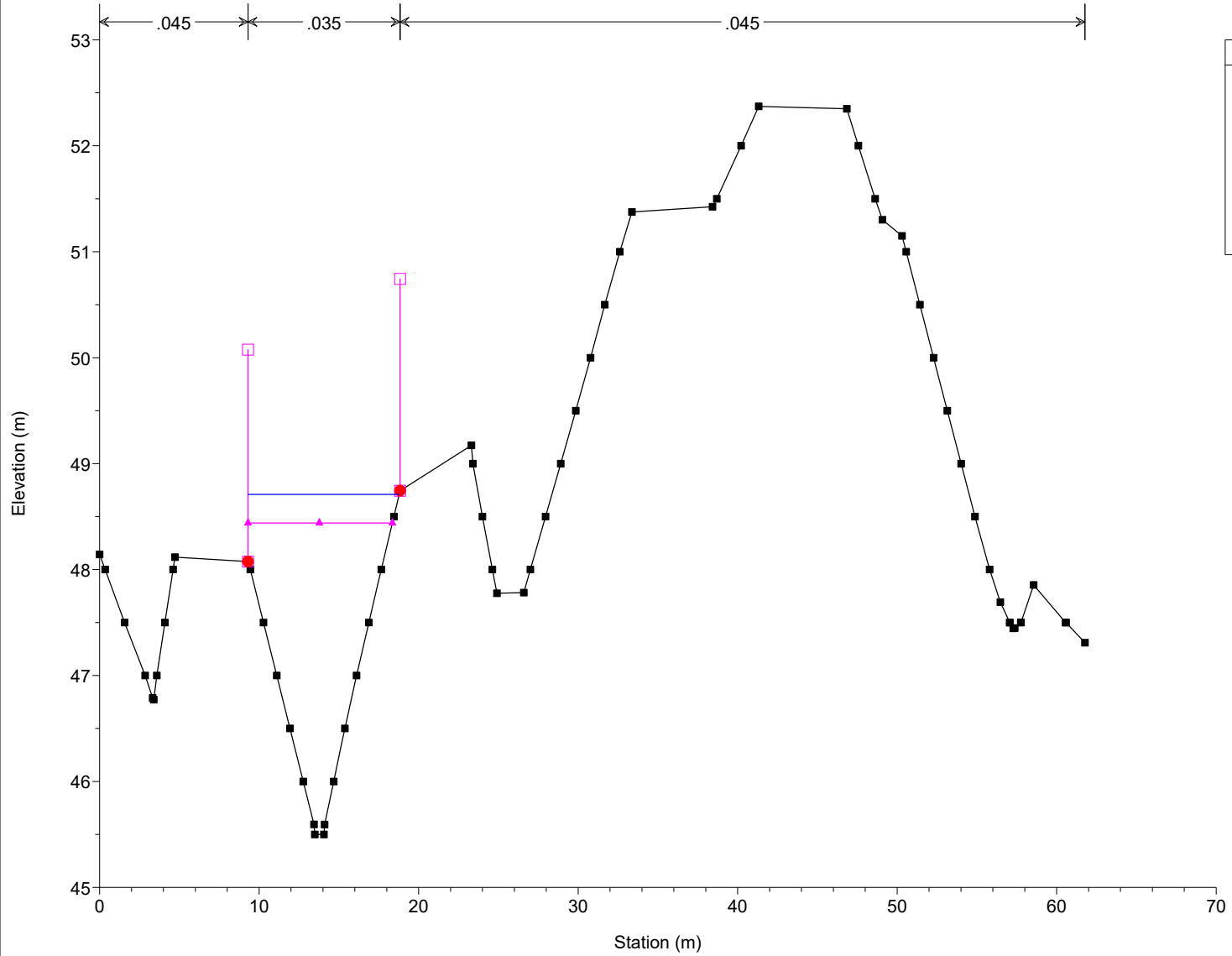
River = Rio Morto Reach = Rio Morto RS = -63



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	●
Ground	■
Levee	□
Bank Sta	●

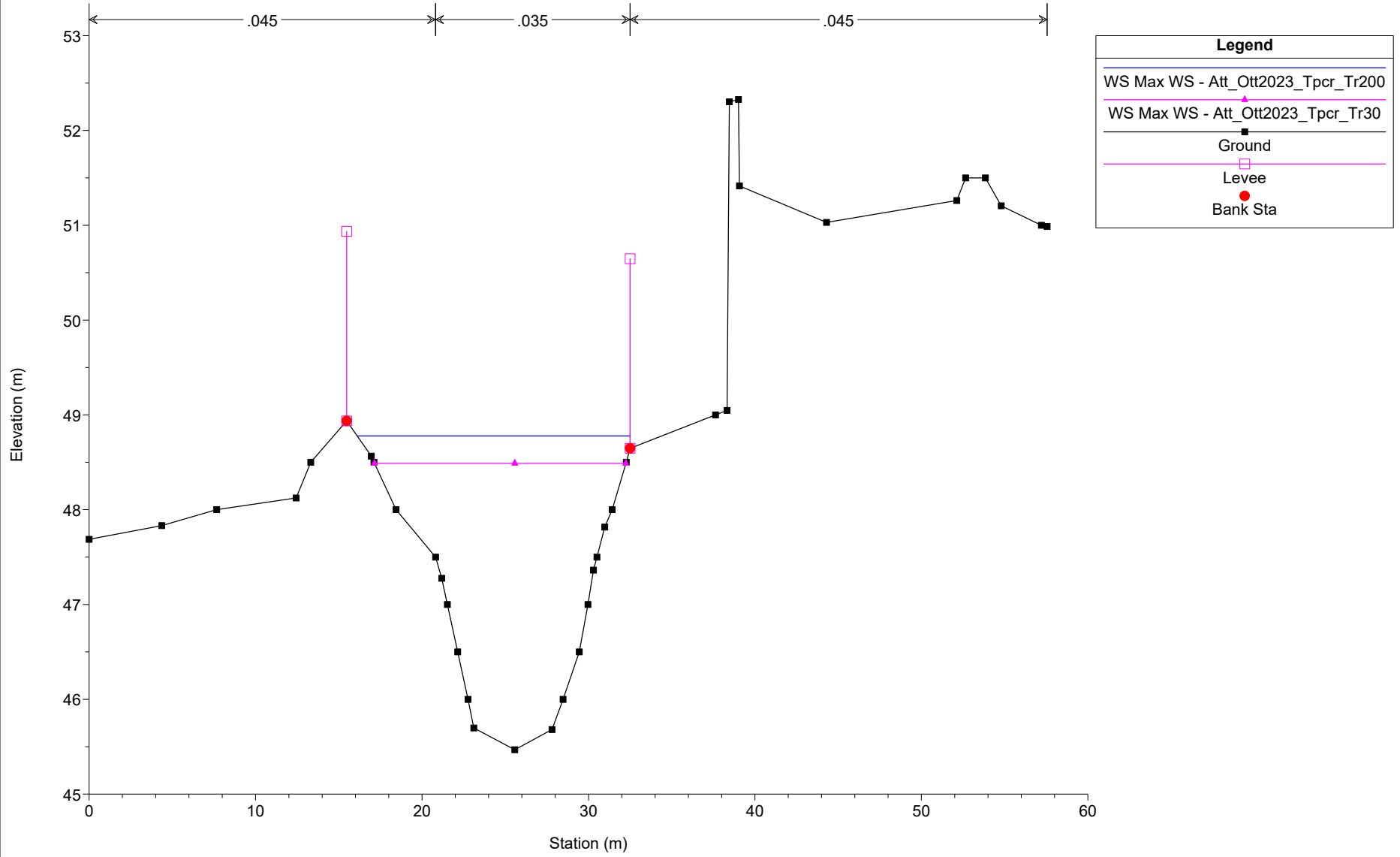
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -64



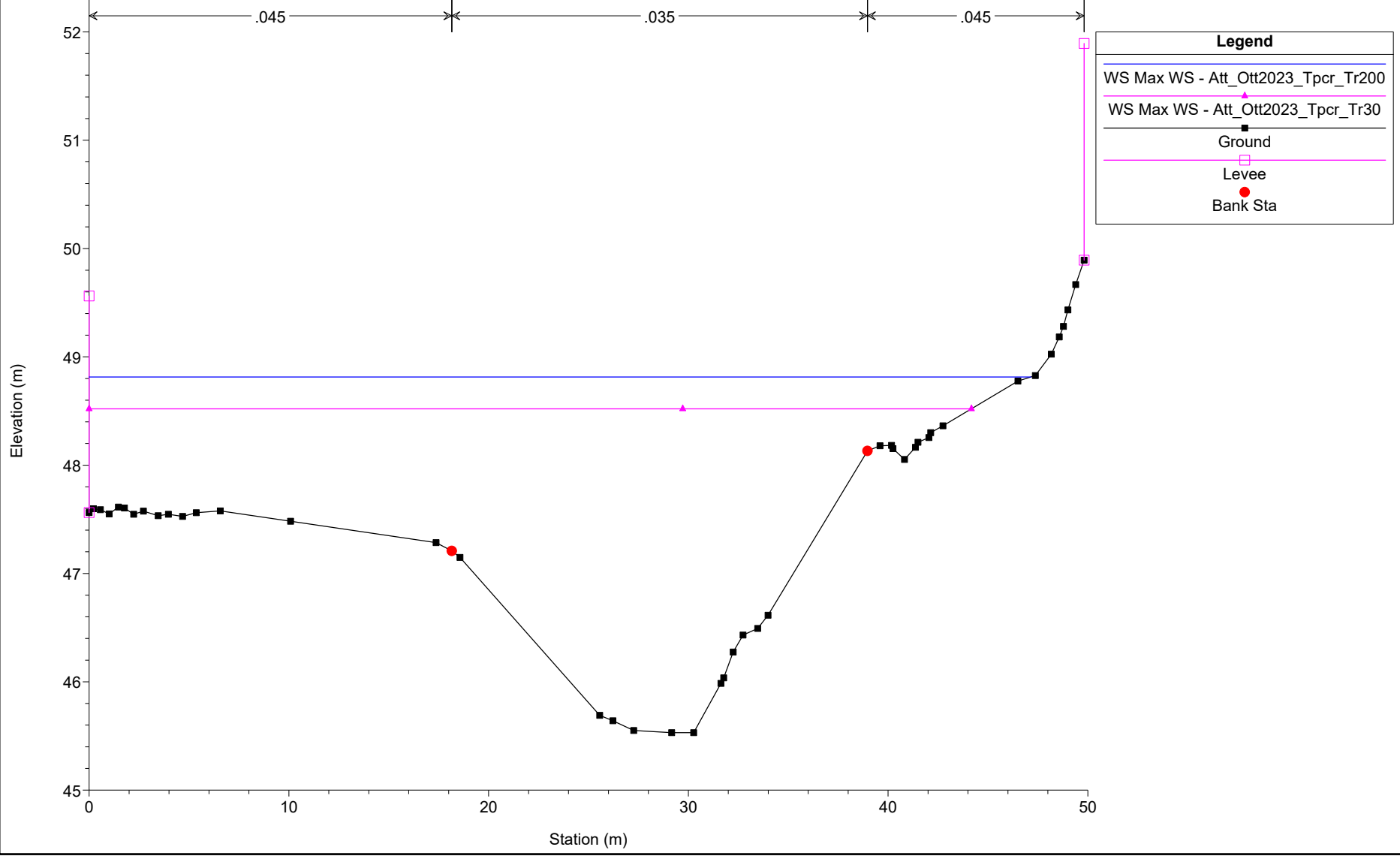
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -65



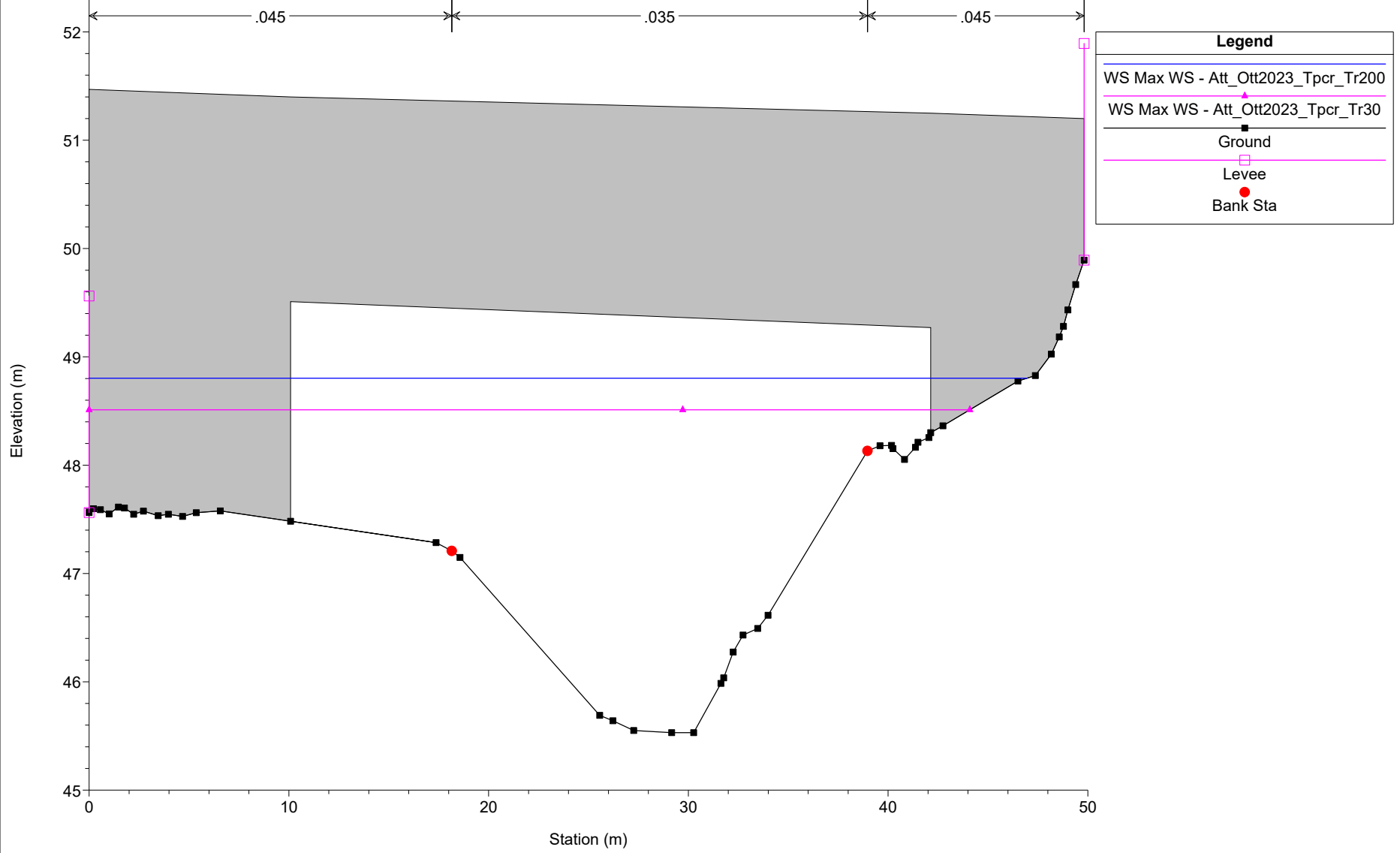
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -65.6 Ausiliaria 2 monte attraversamento variante

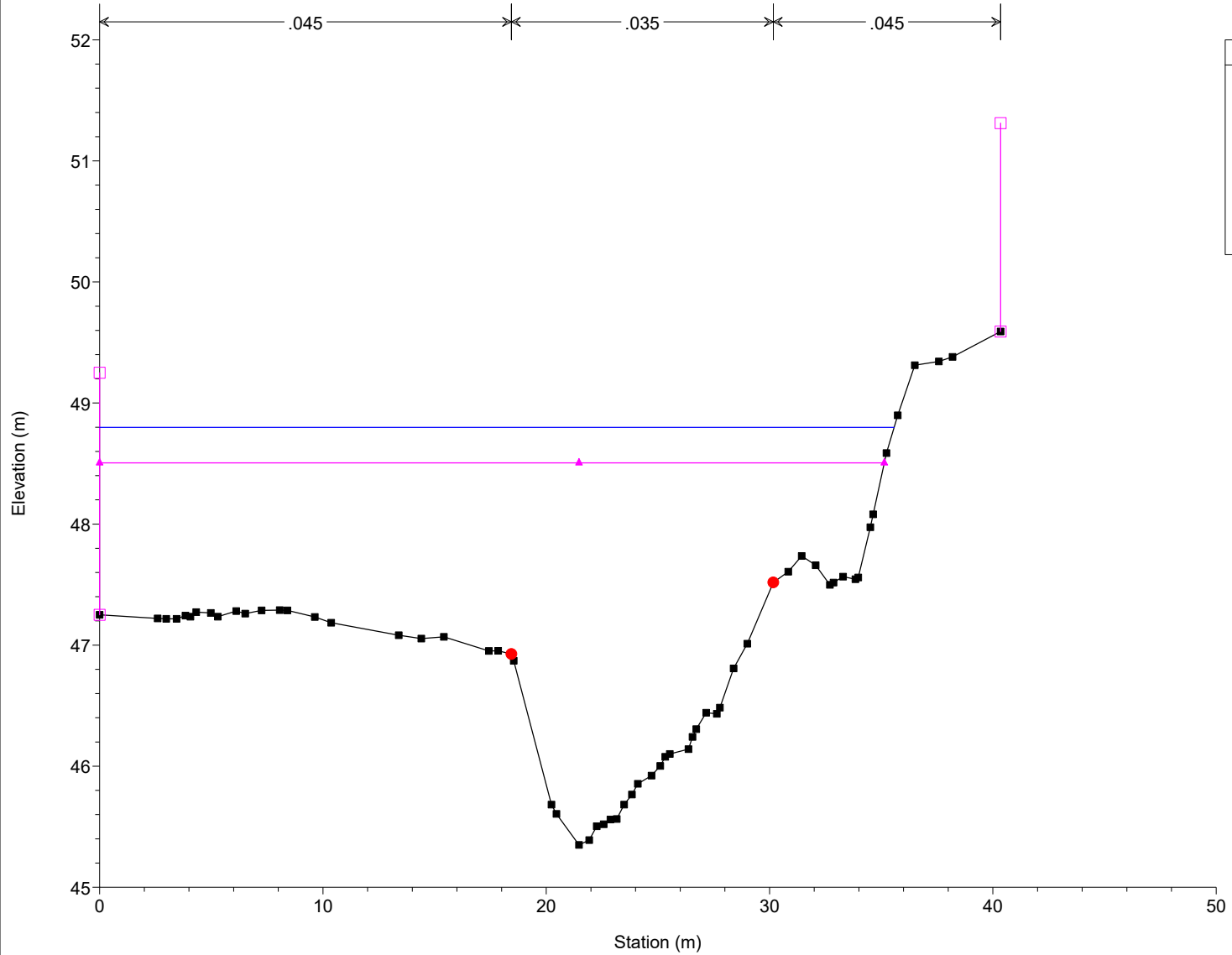


1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -66 BR



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30  
 River = Rio Morto Reach = Rio Morto RS = -66.3 Ausiliaria 1 valle attraversamento variante

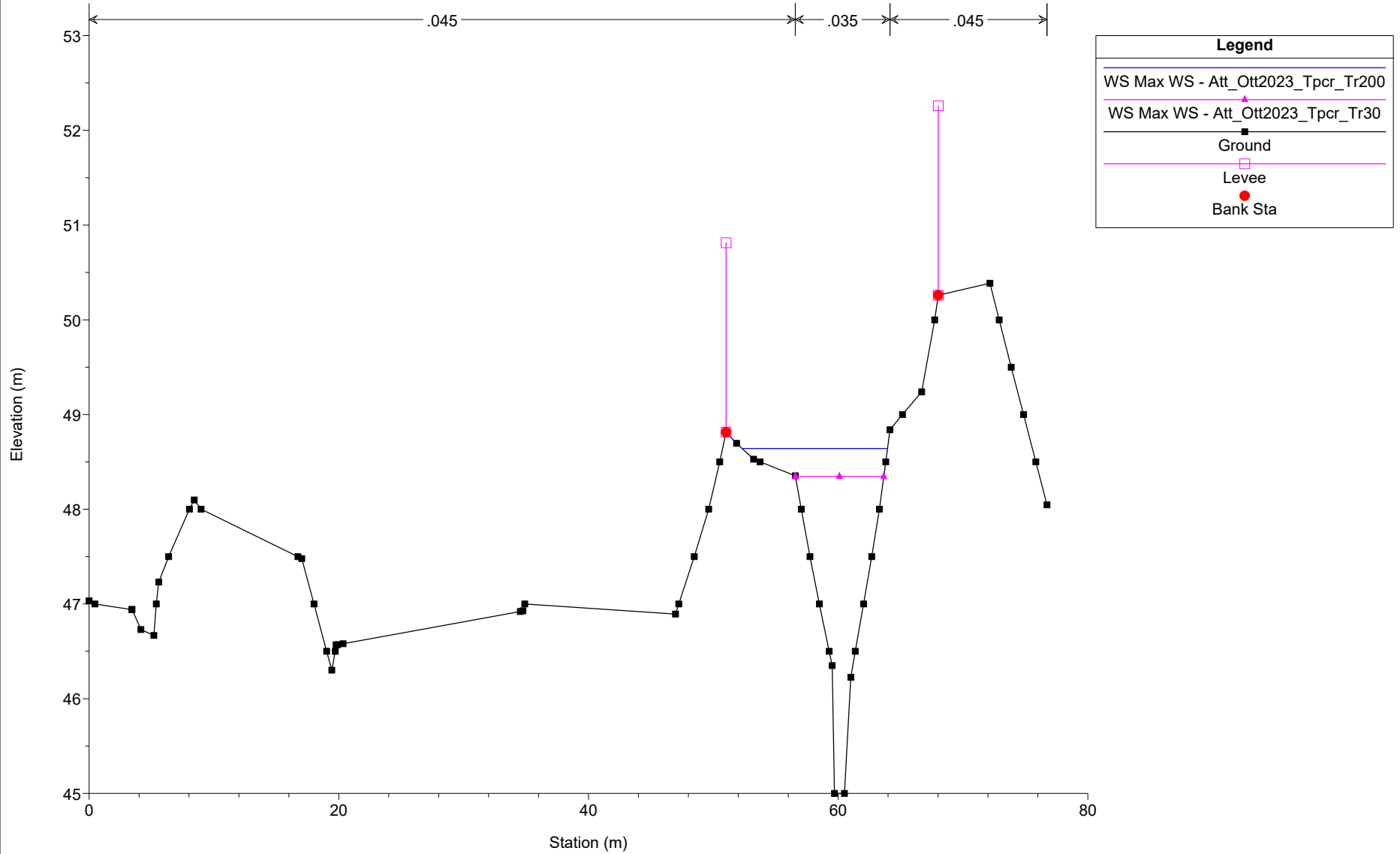


Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●



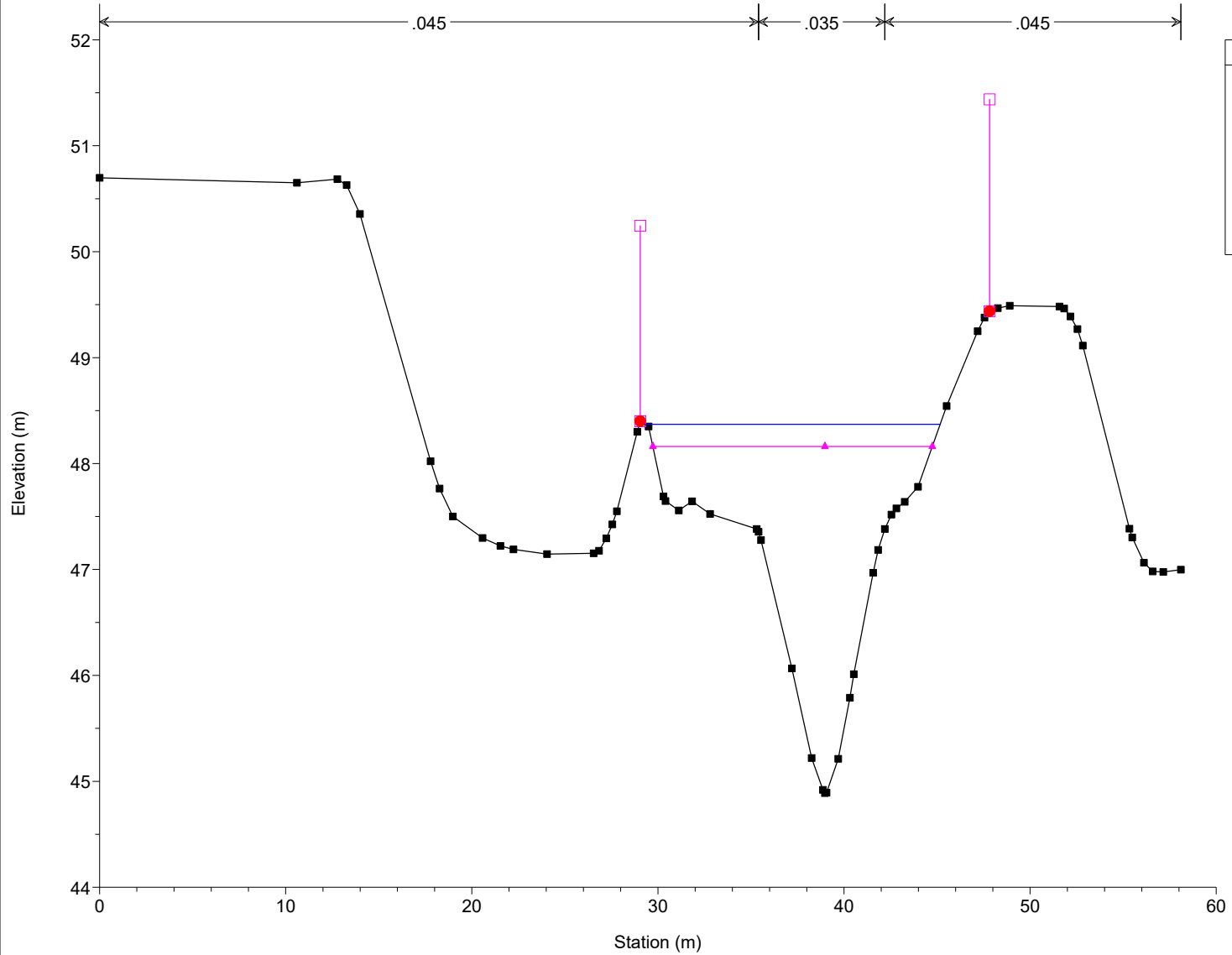
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -67



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -68

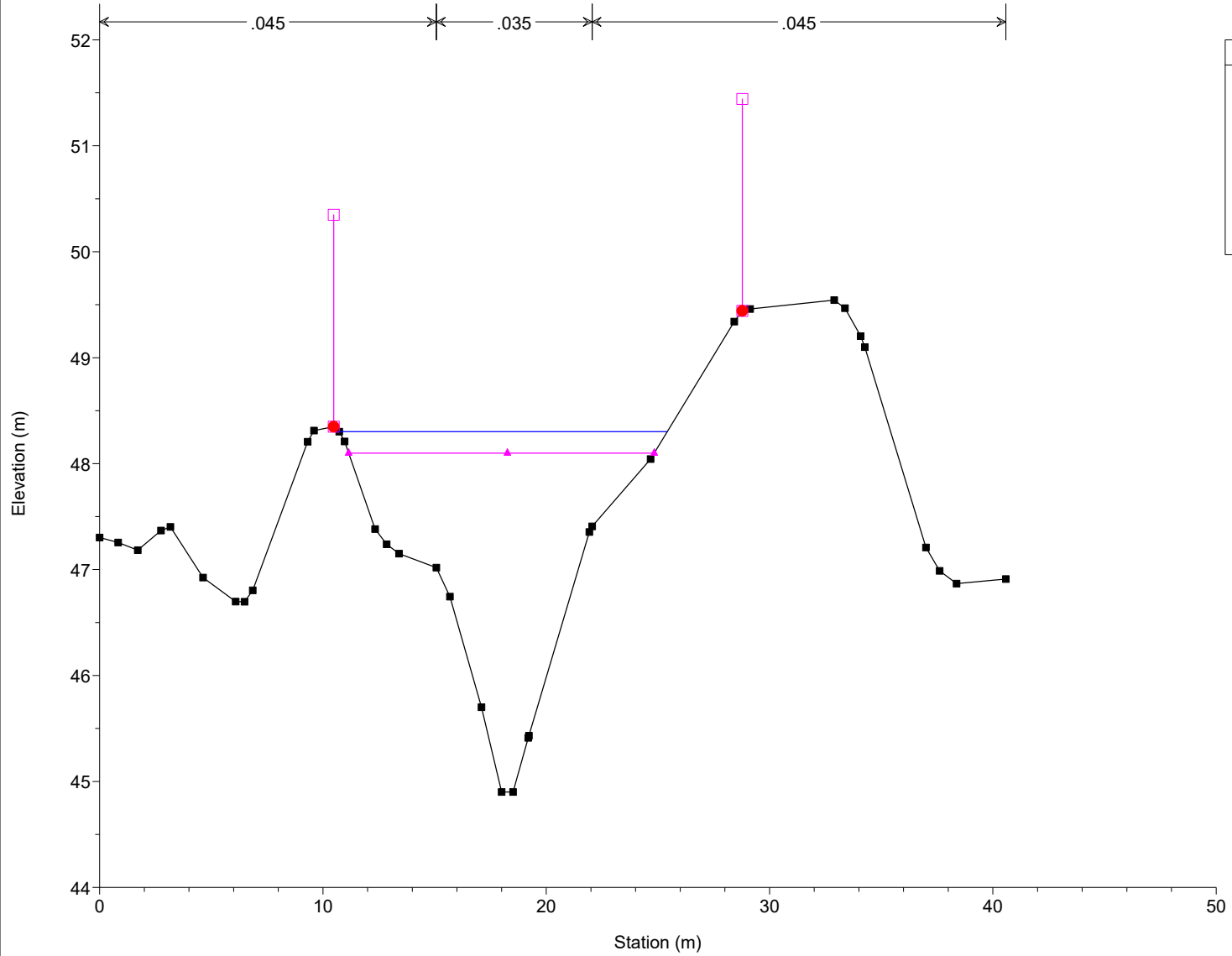


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- WS Max WS - Att\_Ott2023\_Tpcr\_Tr30
- Ground
- Levee
- Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

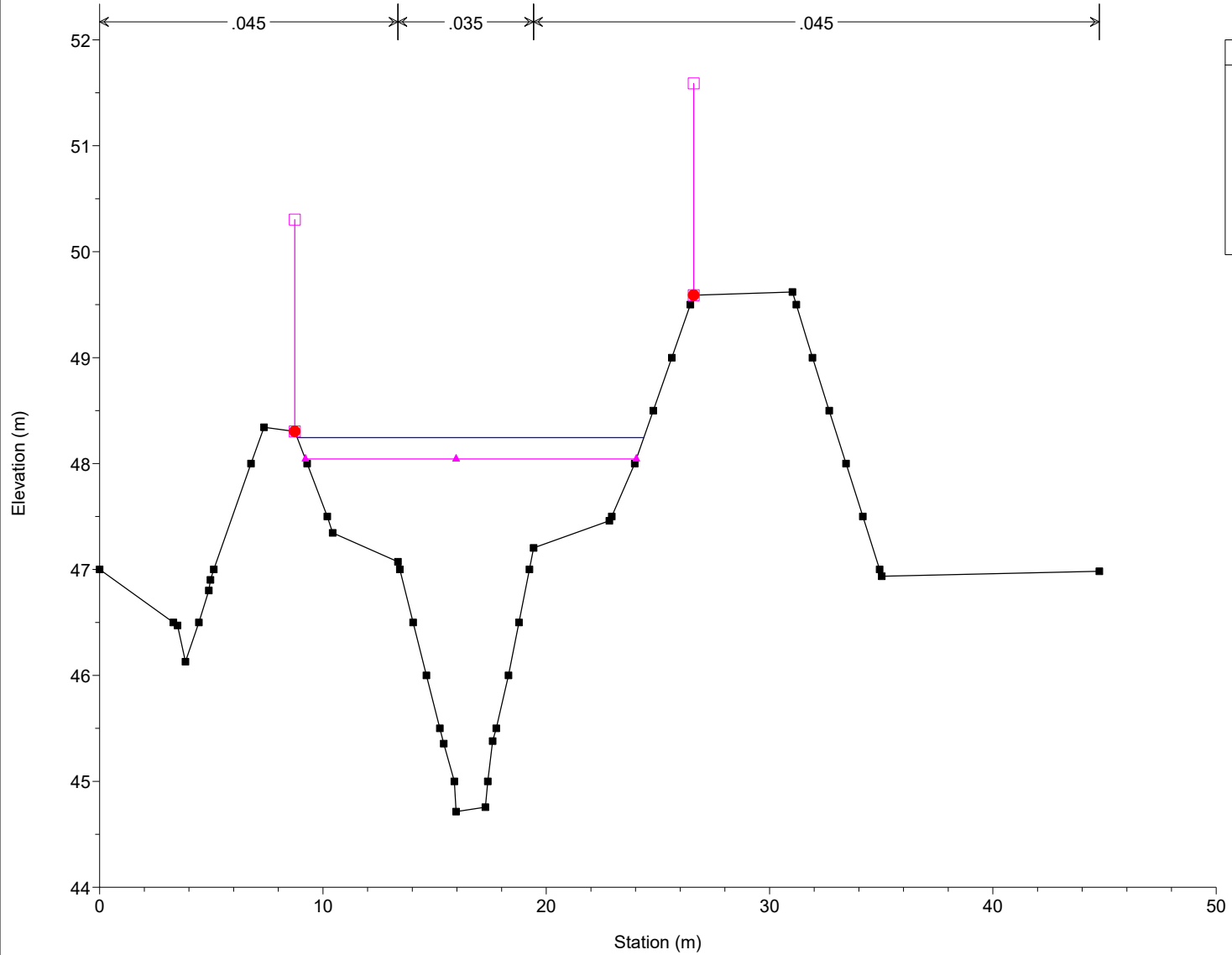
River = Rio Morto Reach = Rio Morto RS = -69



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	—▲—
WS Max WS - Att_Ott2023_Tpcr_Tr30	—▲—
Ground	—■—
Levee	—□—
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

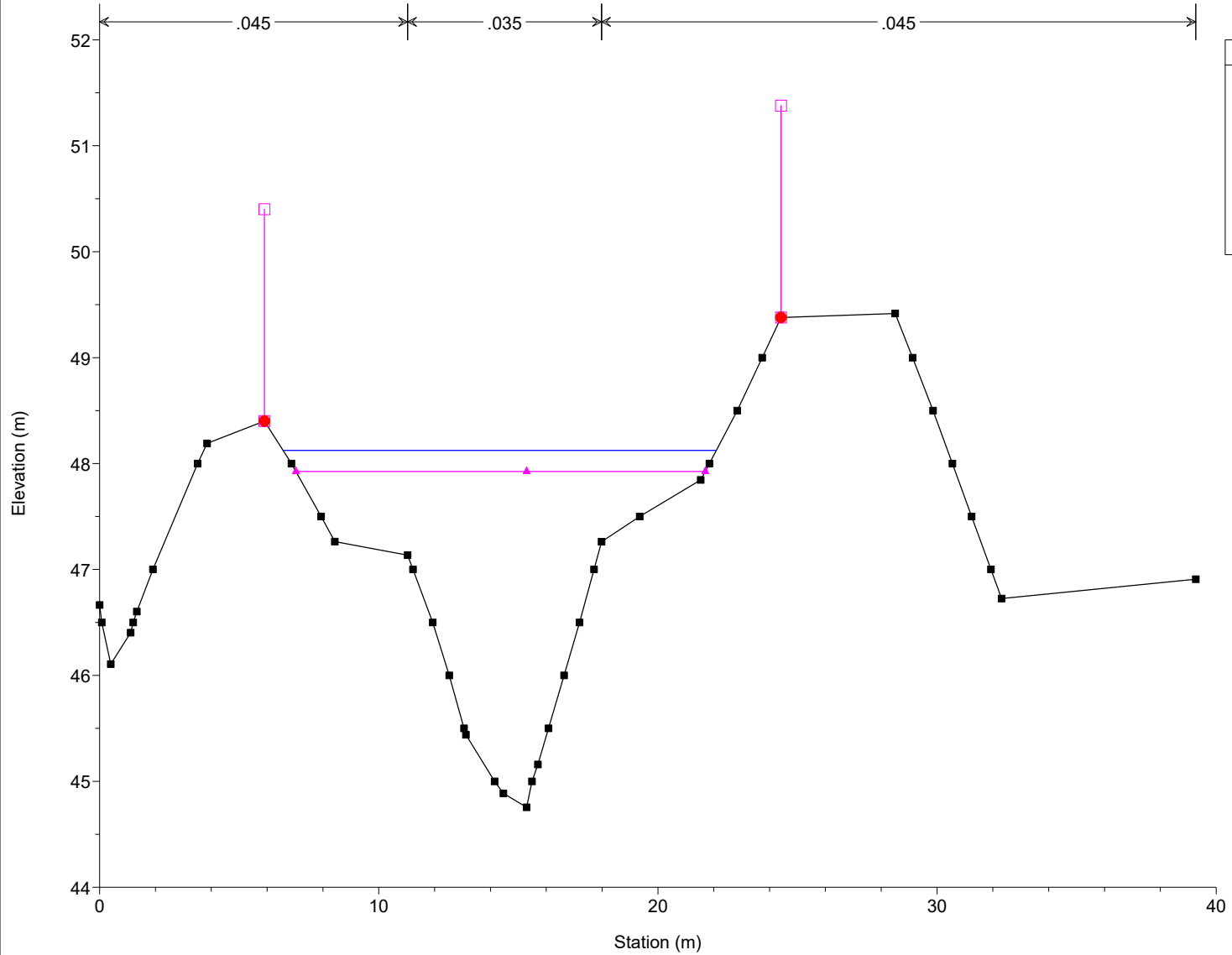
River = Rio Morto Reach = Rio Morto RS = -70



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	— (Blue line)
WS Max WS - Att_Ott2023_Tpcr_Tr30	— (Magenta line)
Ground	— (Black line)
Levee	— (Magenta line with square)
Bank Sta	● (Red dot)

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

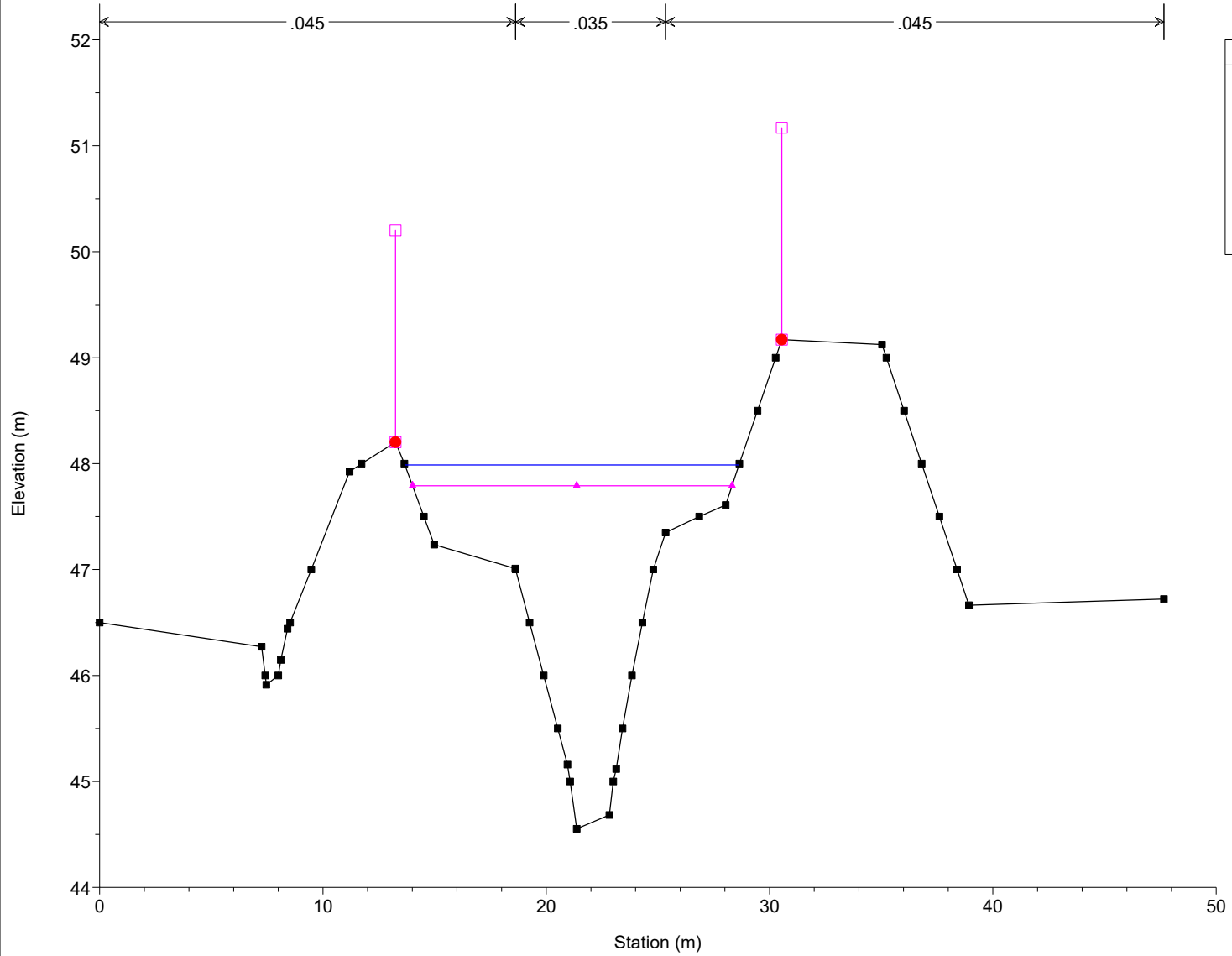
River = Rio Morto Reach = Rio Morto RS = -71



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

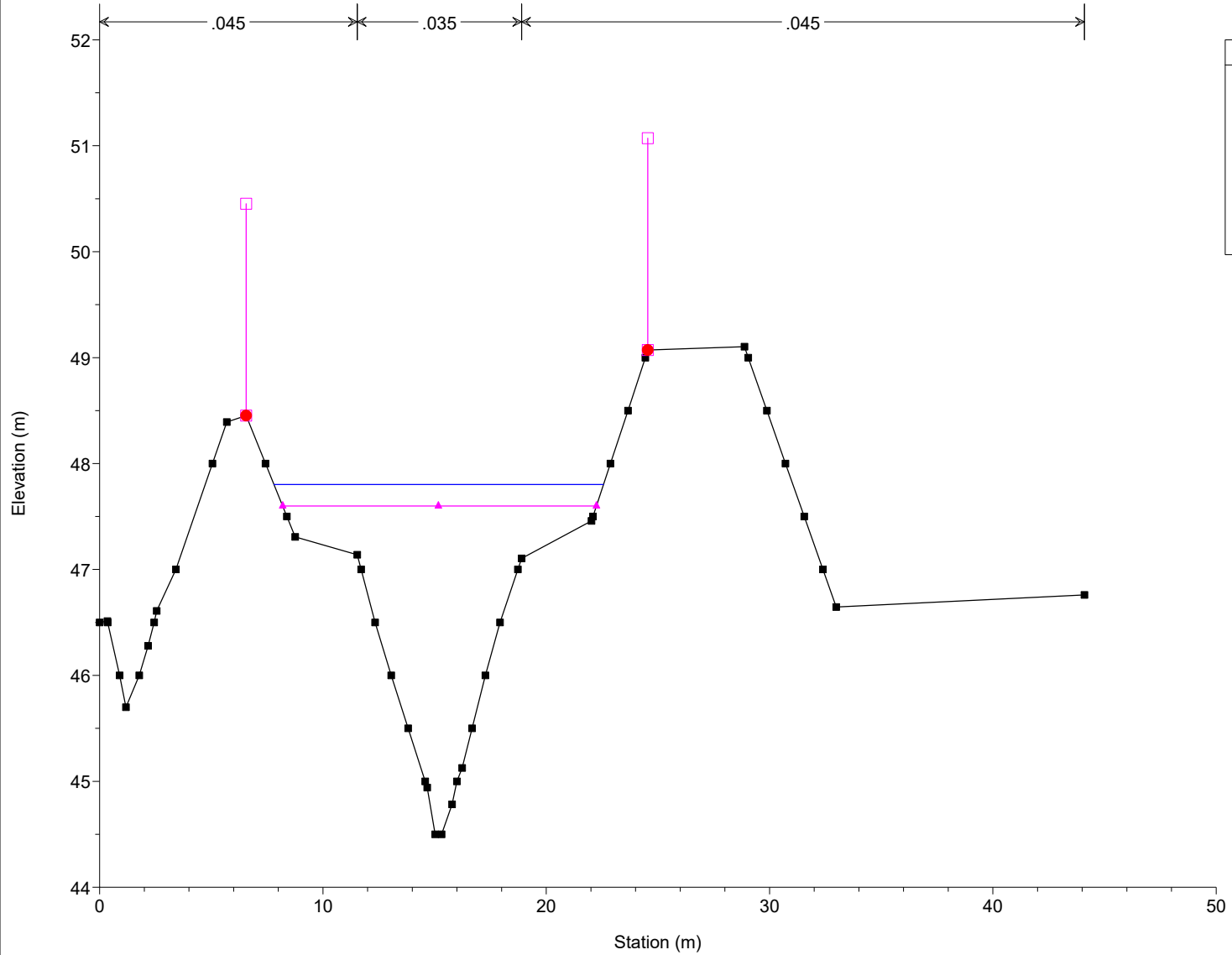
River = Rio Morto Reach = Rio Morto RS = -72



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

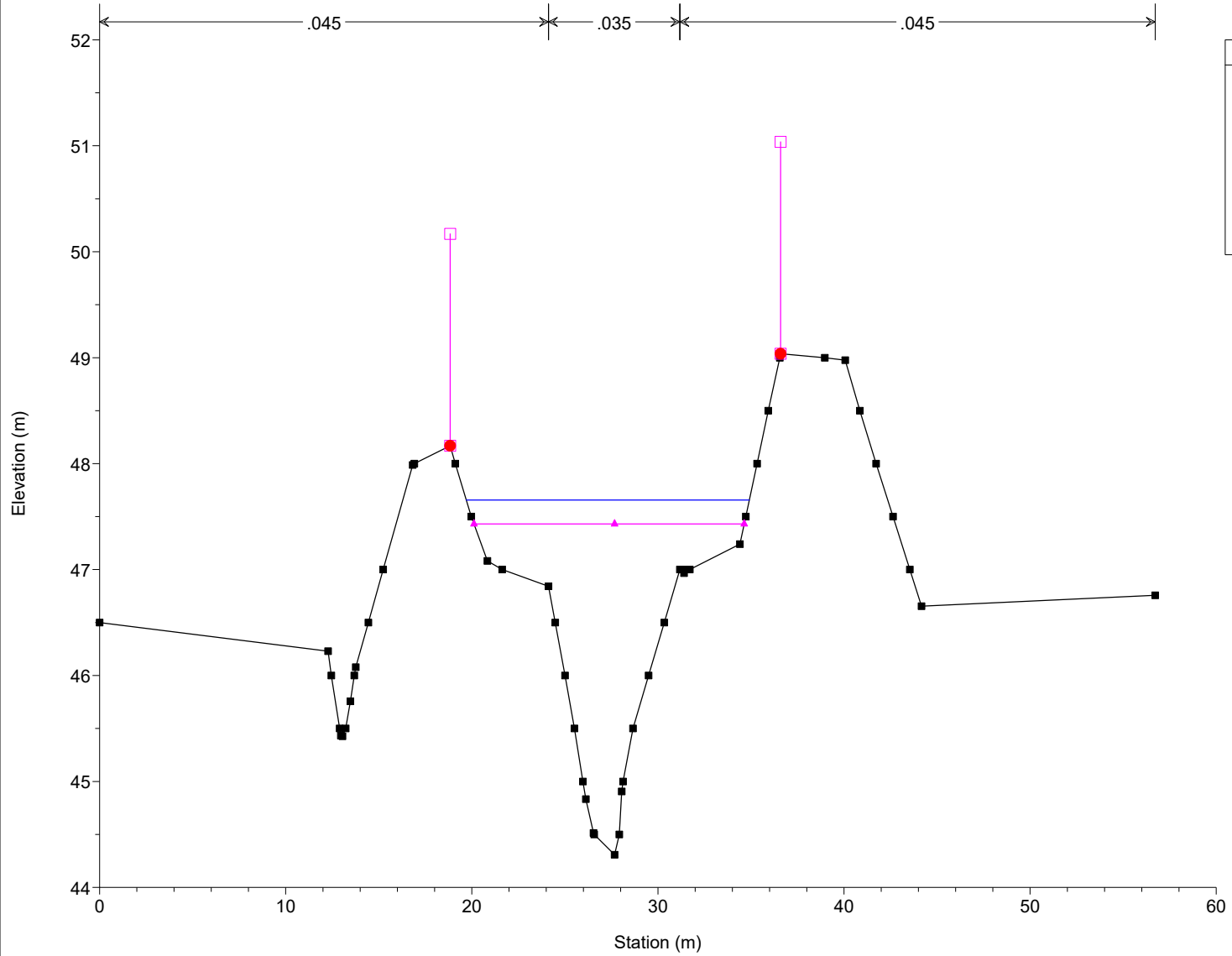
River = Rio Morto Reach = Rio Morto RS = -73



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -74

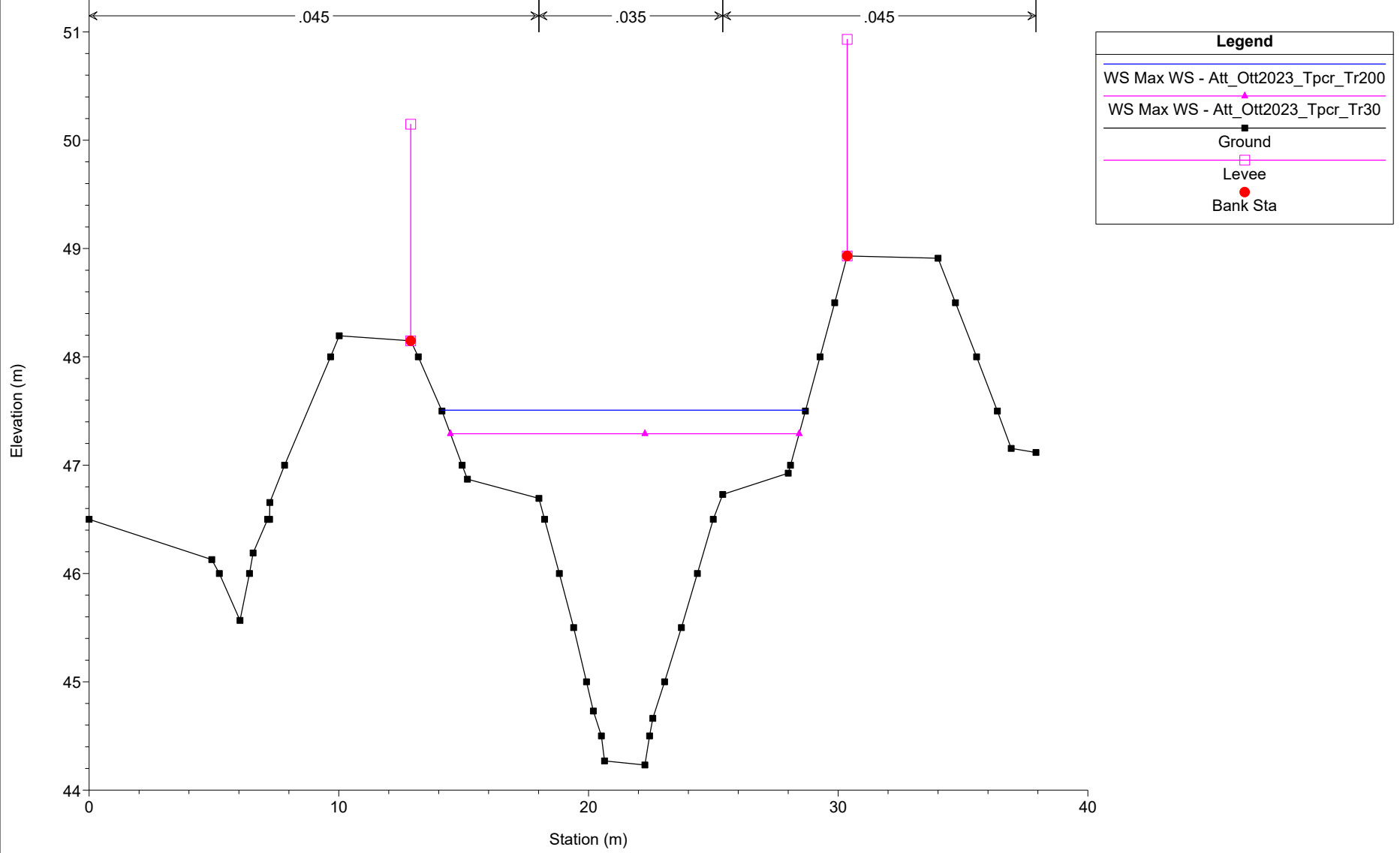


Legend	
—	WS Max WS - Att_Ott2023_Tpcr_Tr200
—▲—	WS Max WS - Att_Ott2023_Tpcr_Tr30
—■—	Ground
—□—	Levee
●	Bank Sta



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

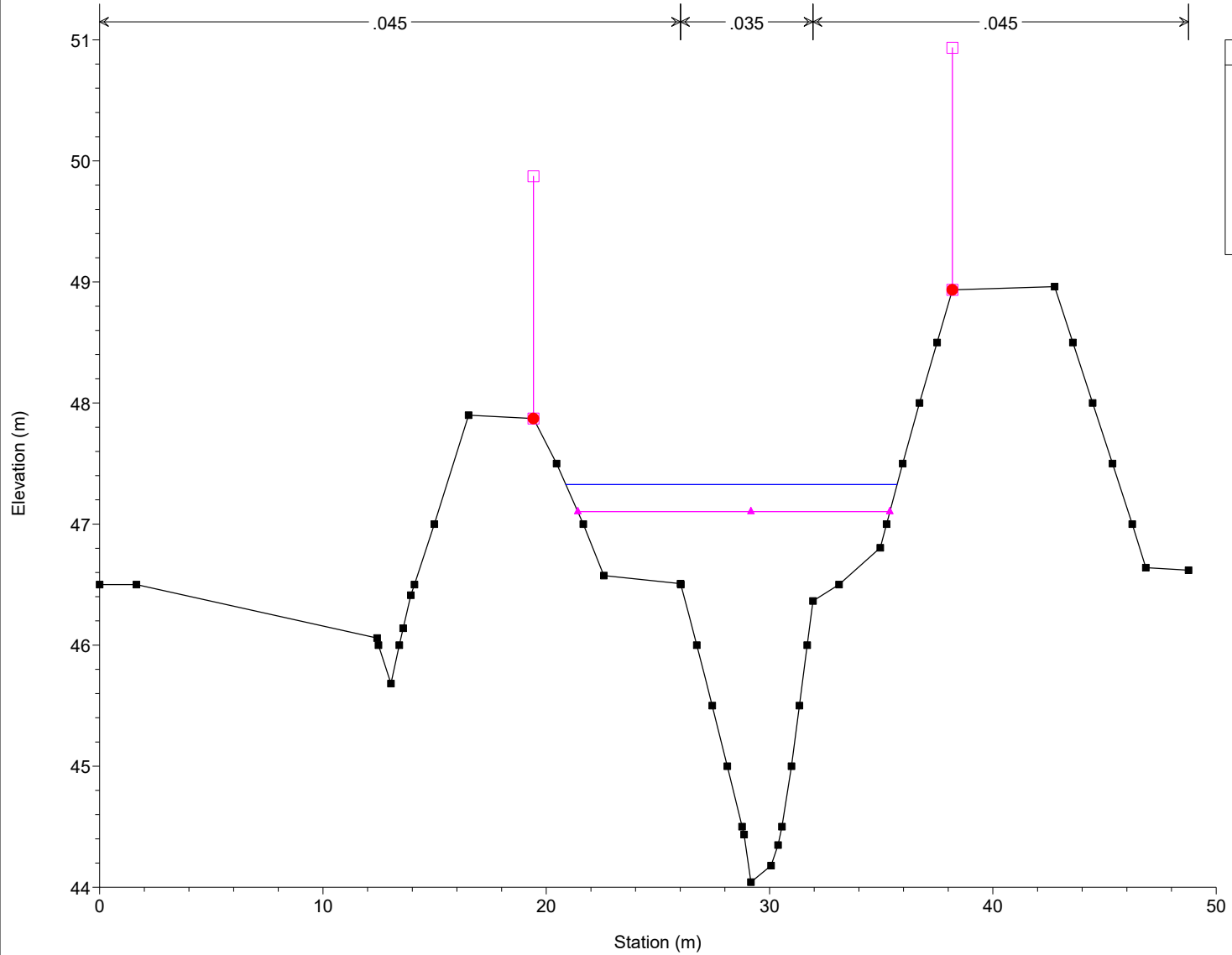
River = Rio Morto Reach = Rio Morto RS = -75



Legend	
—▲—	WS Max WS - Att_Ott2023_Tpcr_Tr200
—▲—	WS Max WS - Att_Ott2023_Tpcr_Tr30
—■—	Ground
—□—	Levee
●	Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

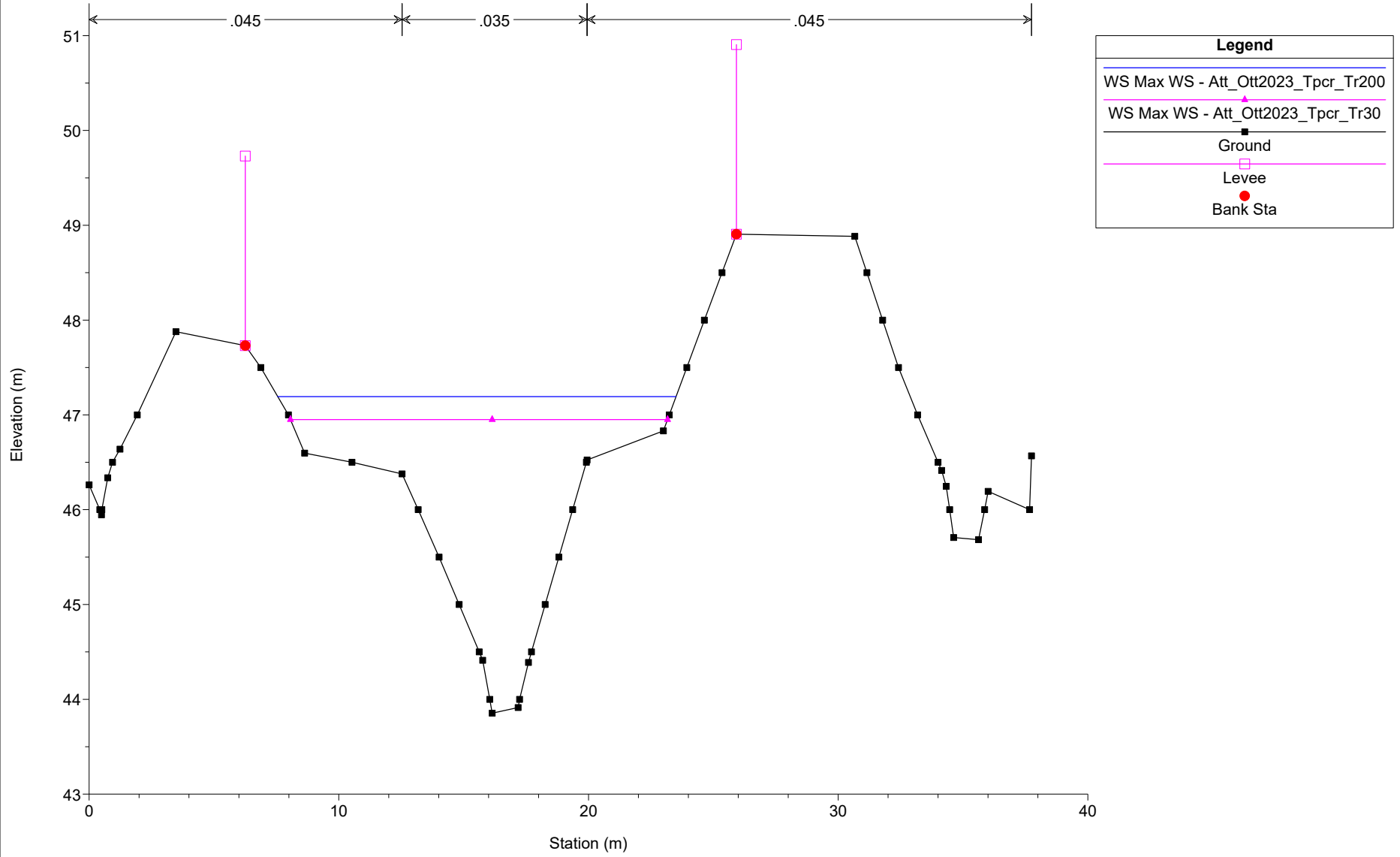
River = Rio Morto Reach = Rio Morto RS = -76



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

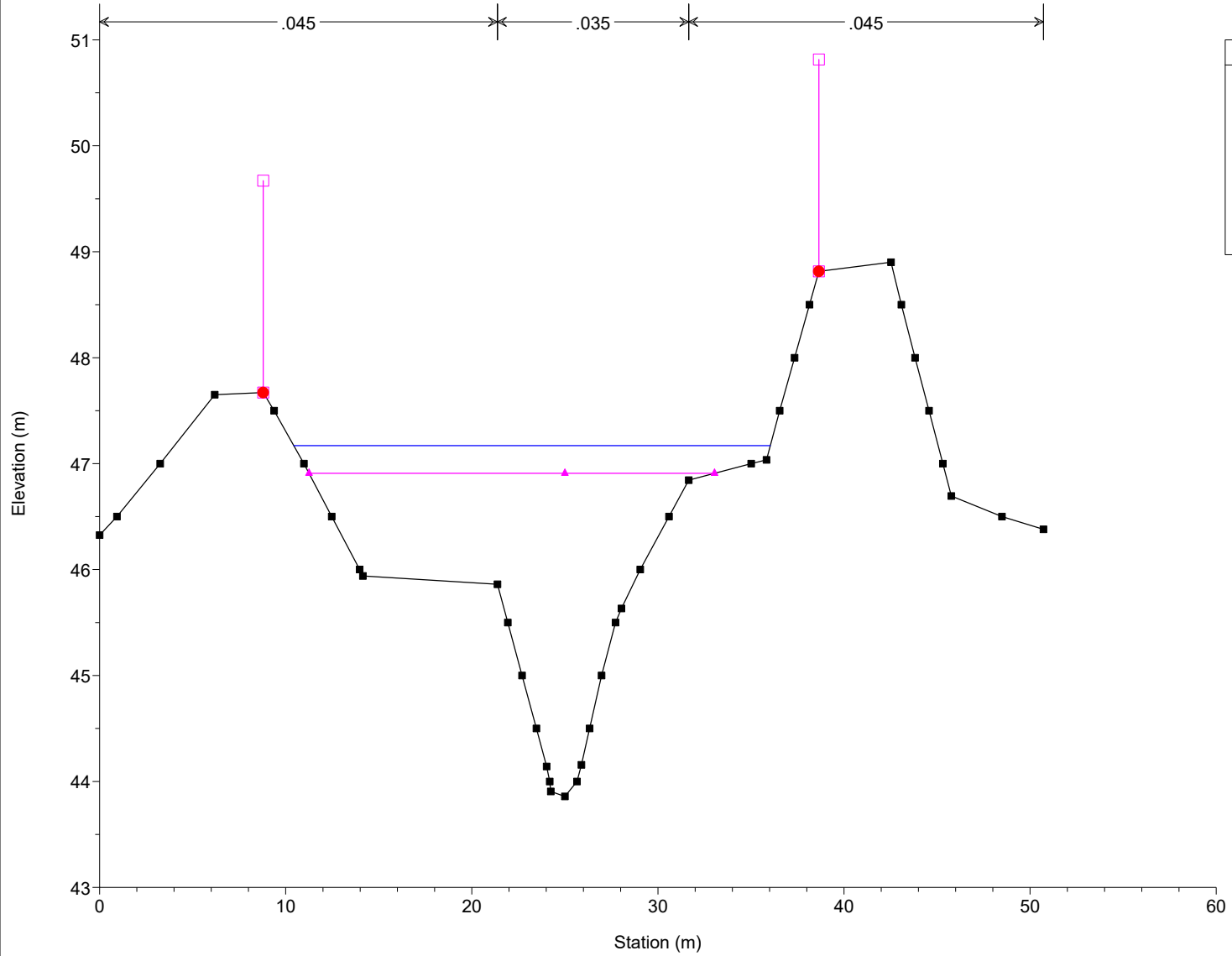
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -77



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

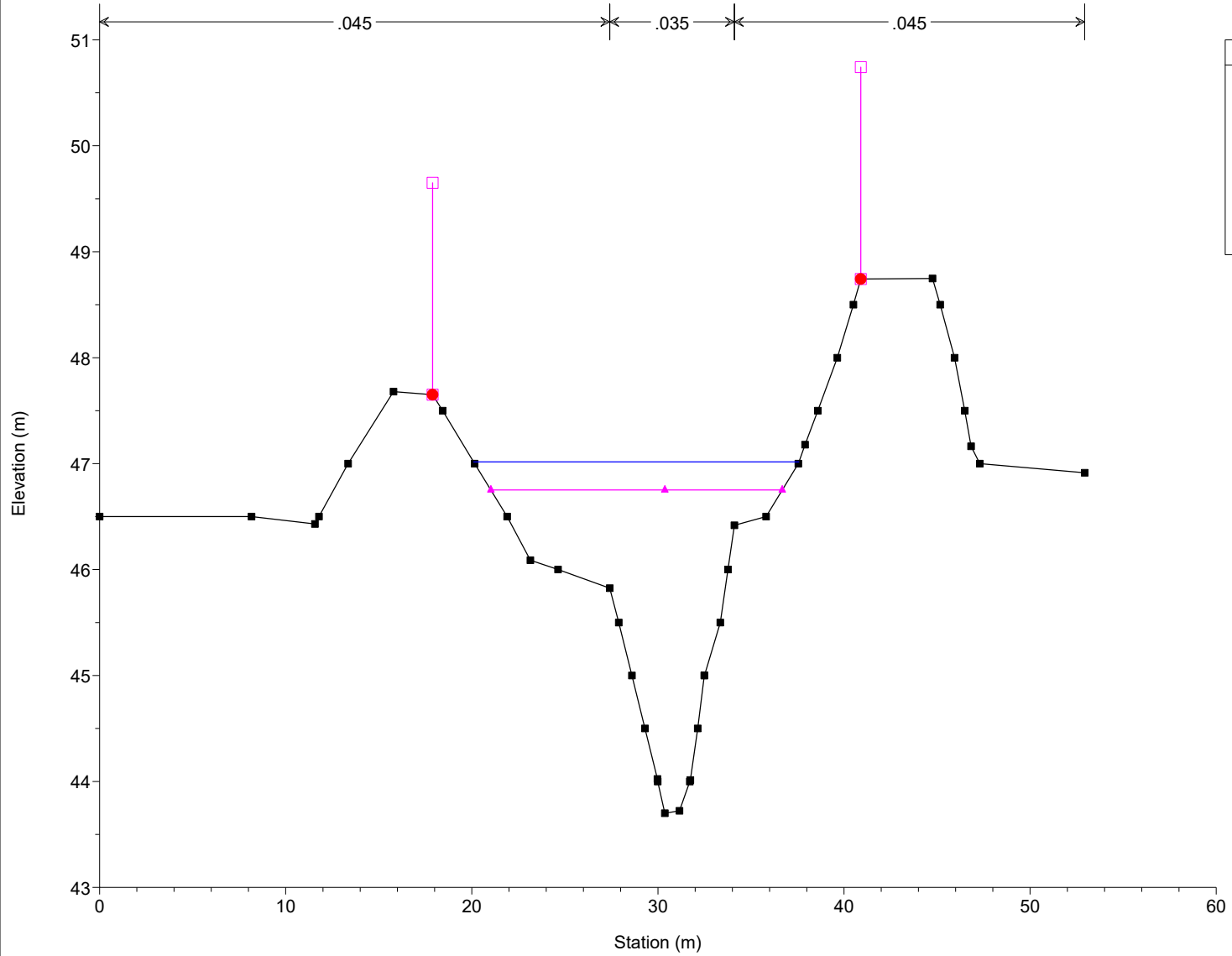
River = Rio Morto Reach = Rio Morto RS = -78



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	— (Blue line)
WS Max WS - Att_Ott2023_Tpcr_Tr30	— (Magenta line)
Ground	— (Black line)
Levee	— (Magenta line)
Bank Sta	• (Red dot)

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

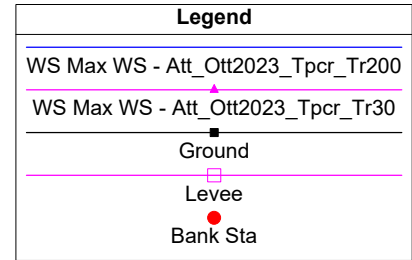
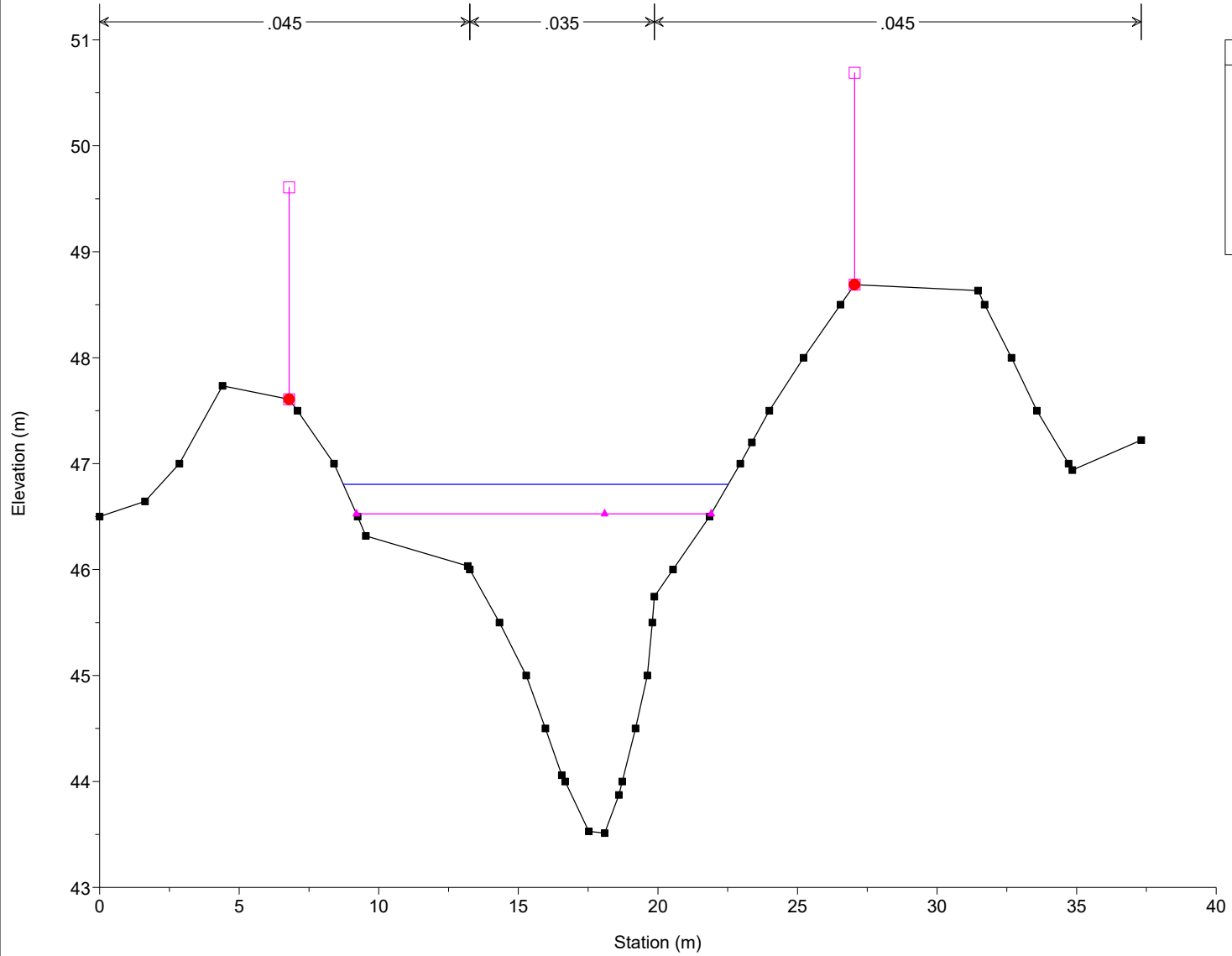
River = Rio Morto Reach = Rio Morto RS = -79



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	▲
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

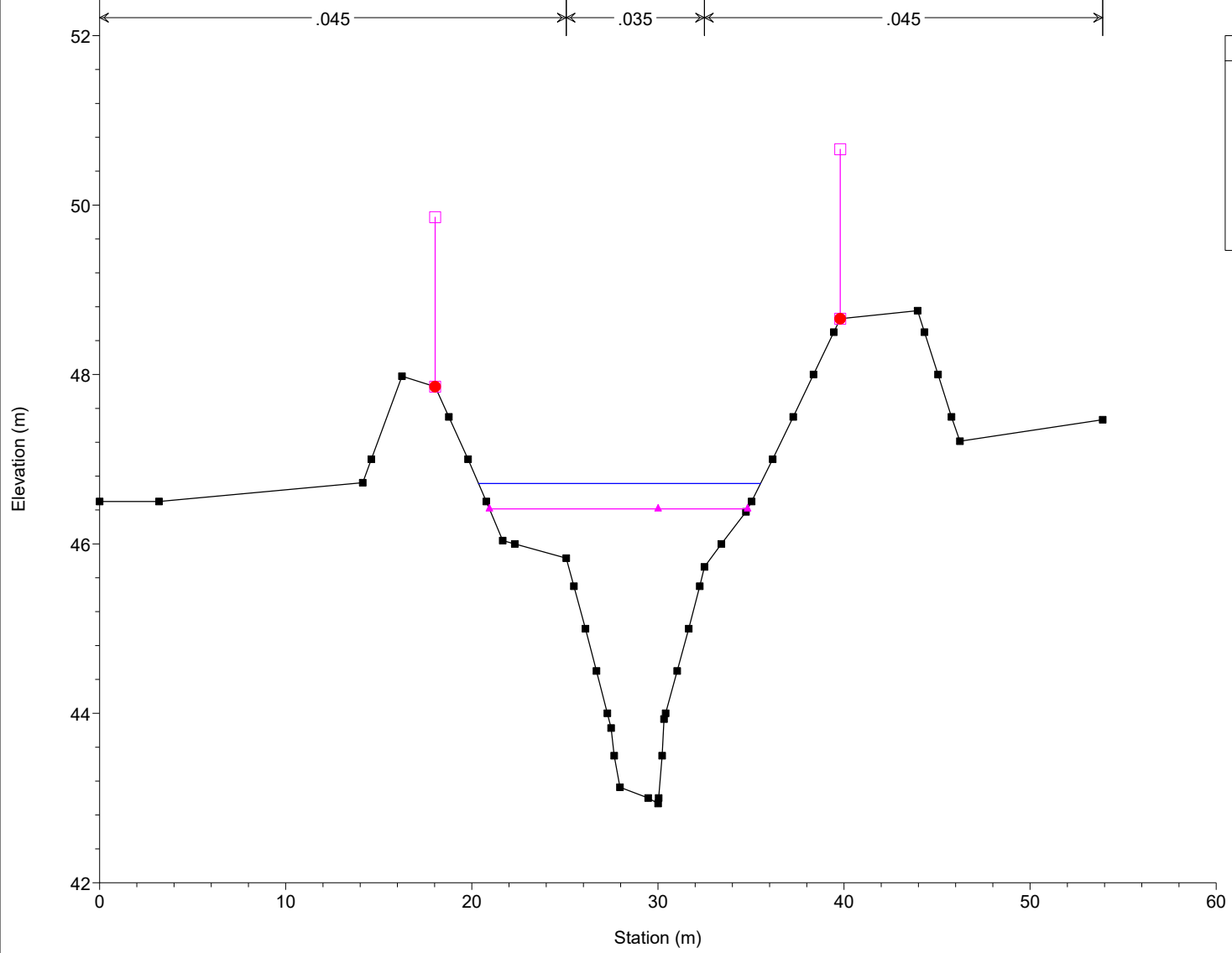
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -80



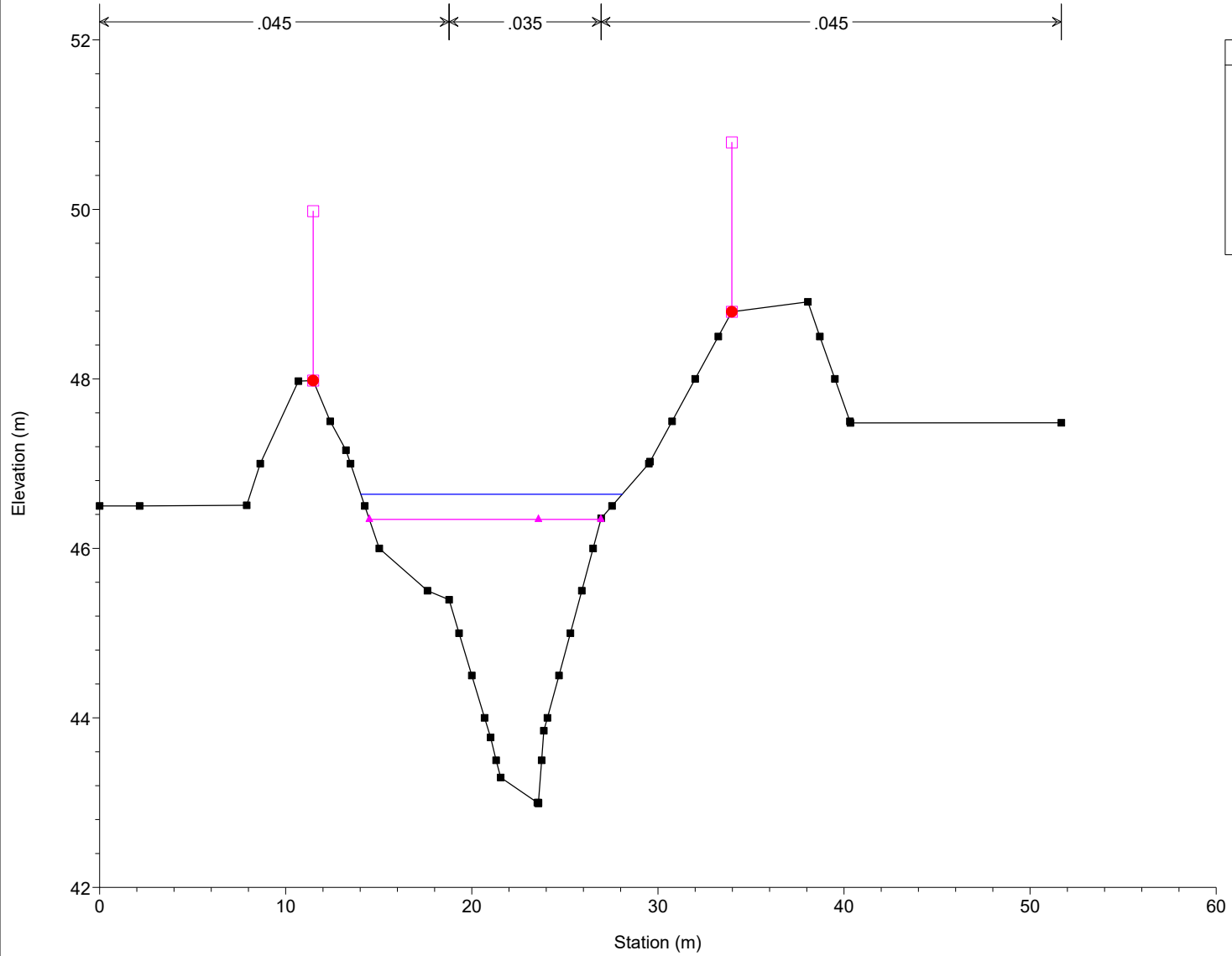
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -81



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -82

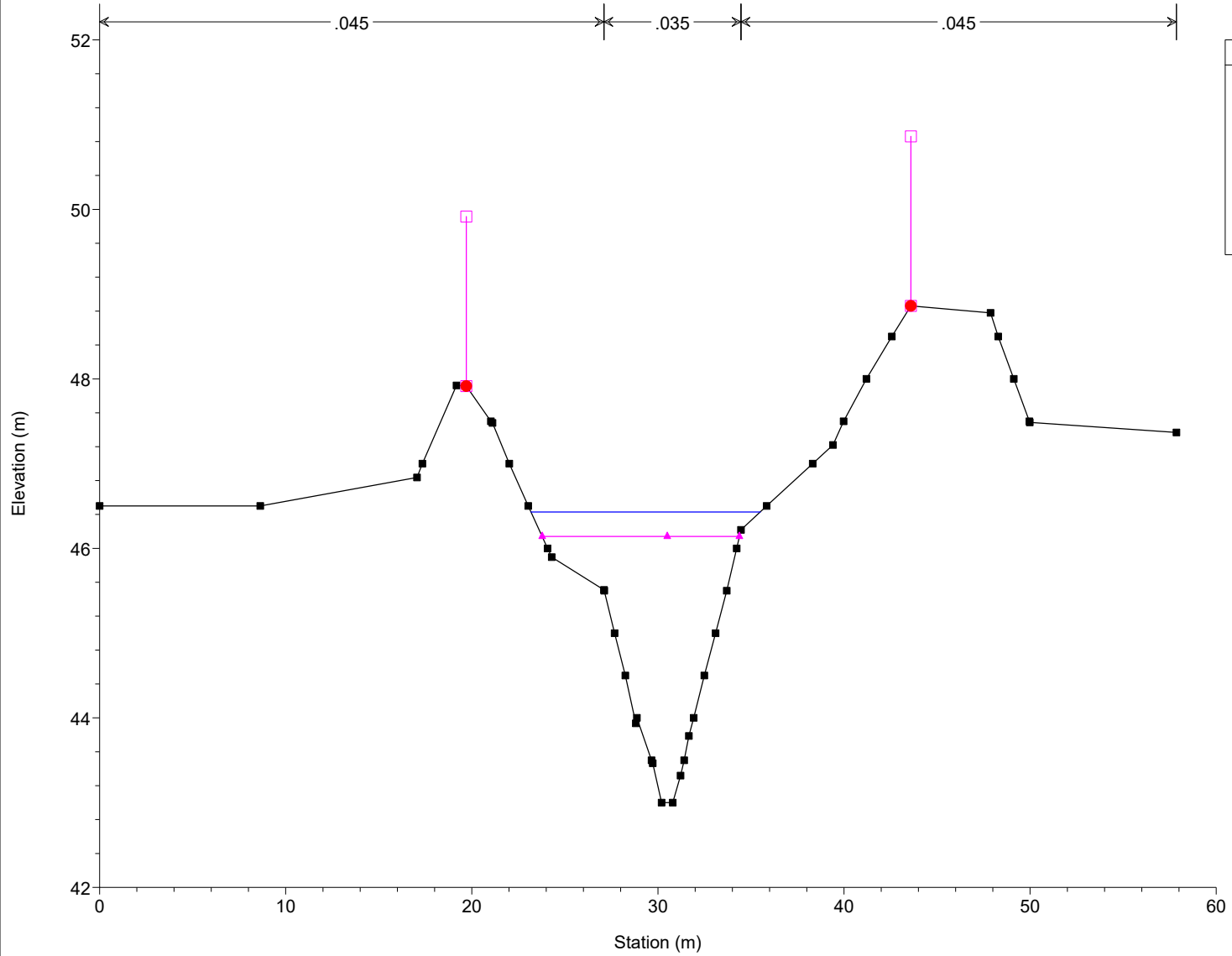


Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	— (Blue line)
WS Max WS - Att_Ott2023_Tpcr_Tr30	— (Magenta line)
Ground	■ (Black square)
Levee	□ (Magenta square)
Bank Sta	● (Red circle)



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -83

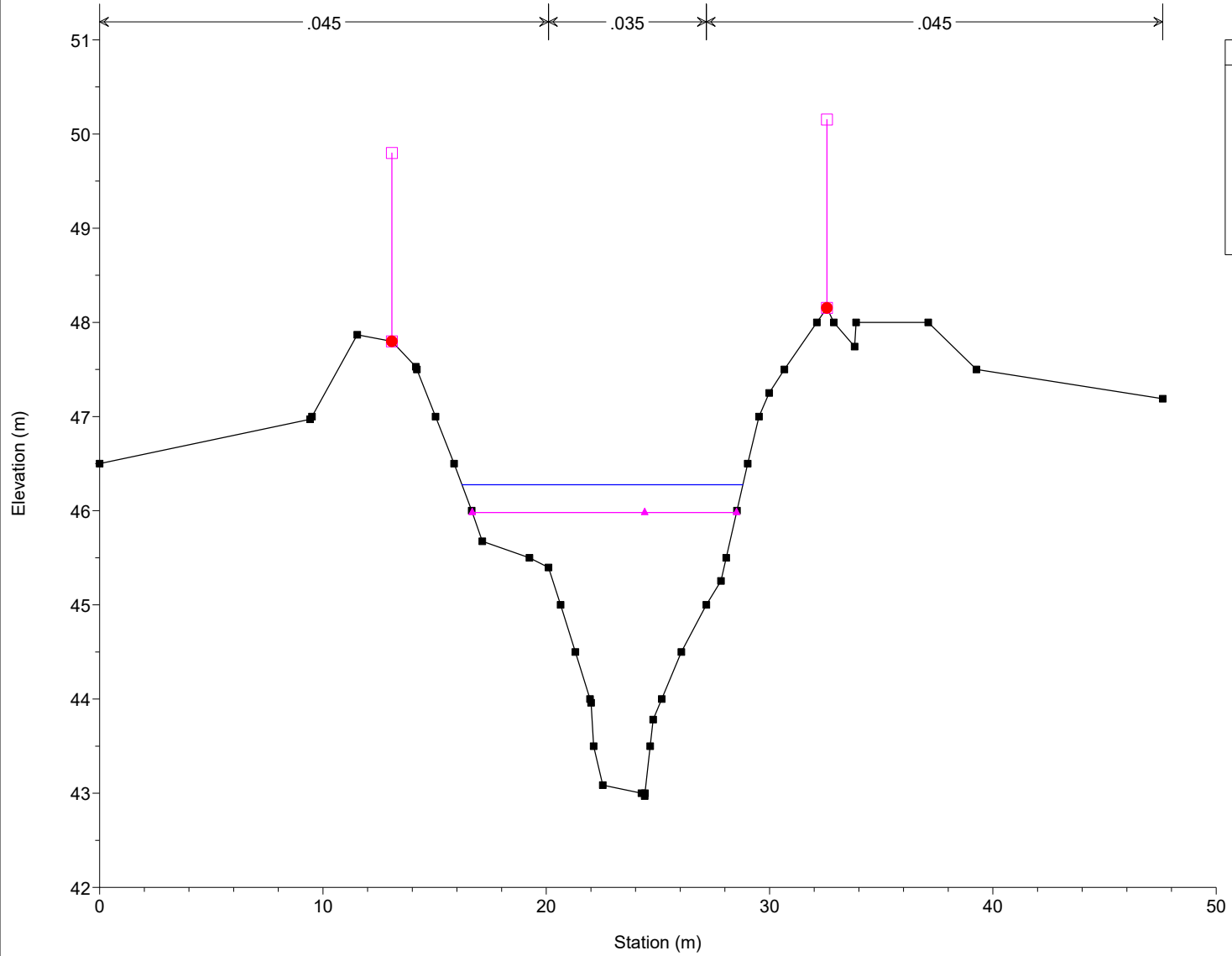


**Legend**

- WS Max WS - Att\_Ott2023\_Tpcr\_Tr200
- WS Max WS - Att\_Ott2023\_Tpcr\_Tr30
- Ground
- Levee
- Bank Sta

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

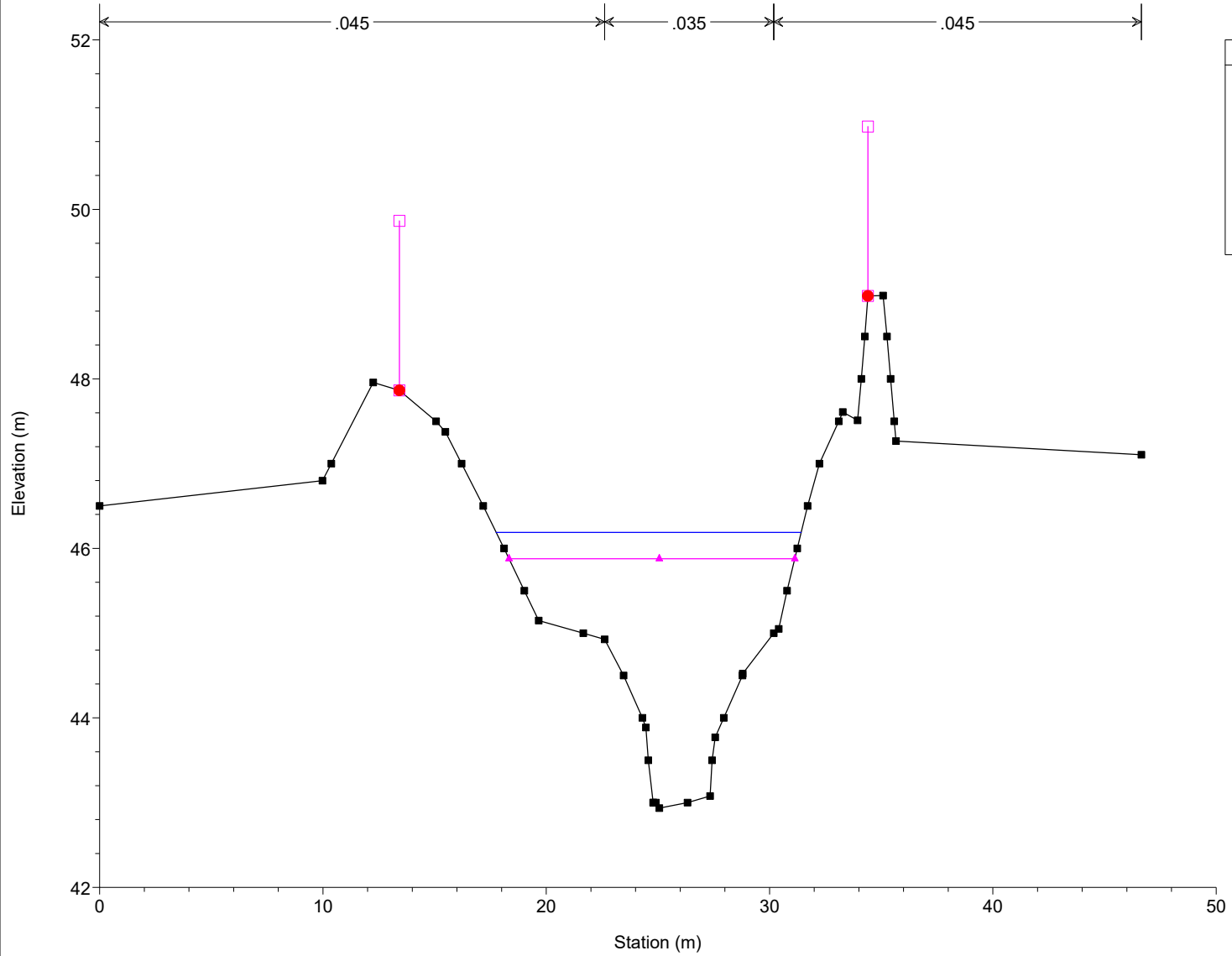
River = Rio Morto Reach = Rio Morto RS = -84



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	— (Blue line)
WS Max WS - Att_Ott2023_Tpcr_Tr30	— (Magenta line)
Ground	— (Black line)
Levee	— (Magenta line)
Bank Sta	● (Red dot)

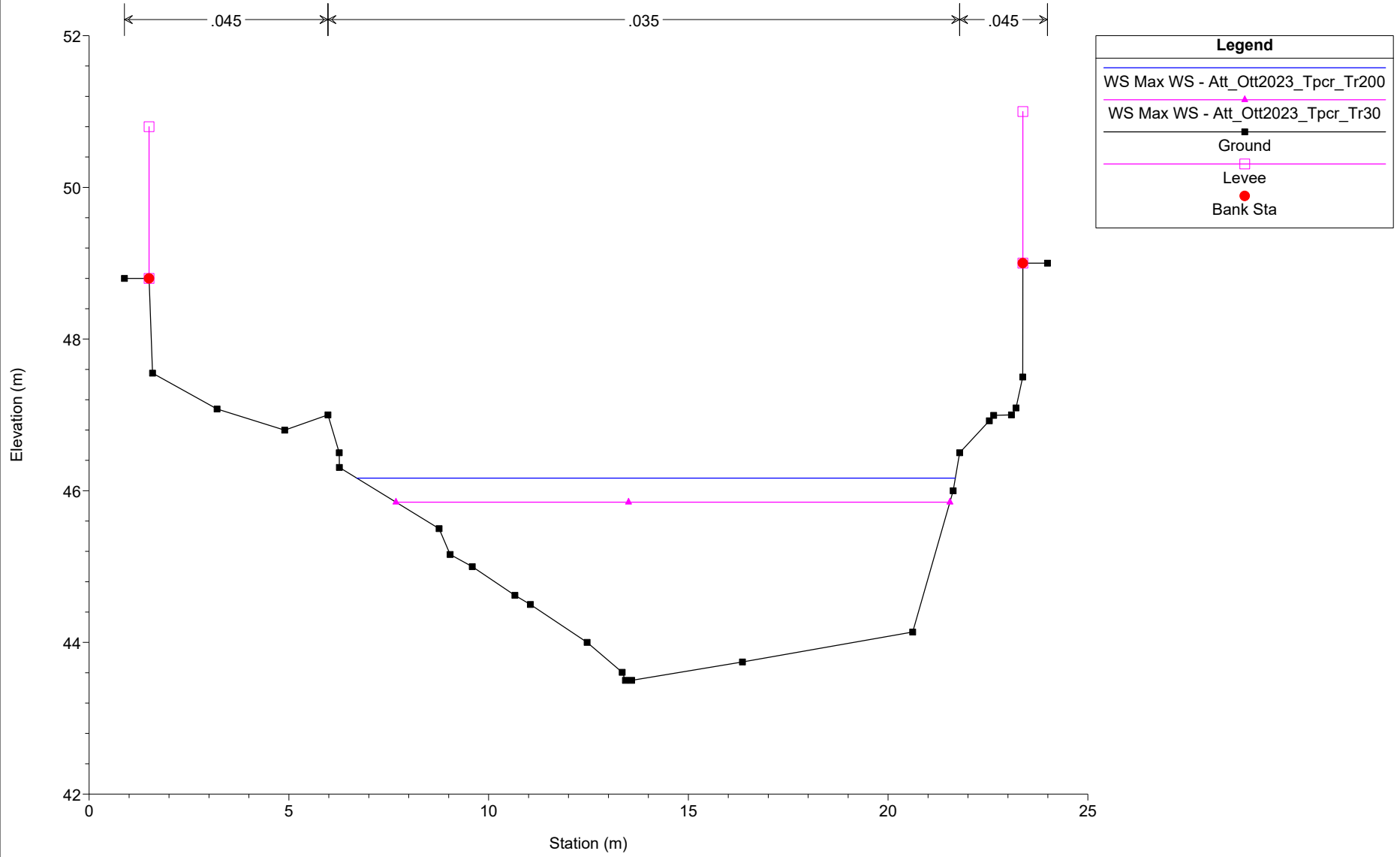
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -85



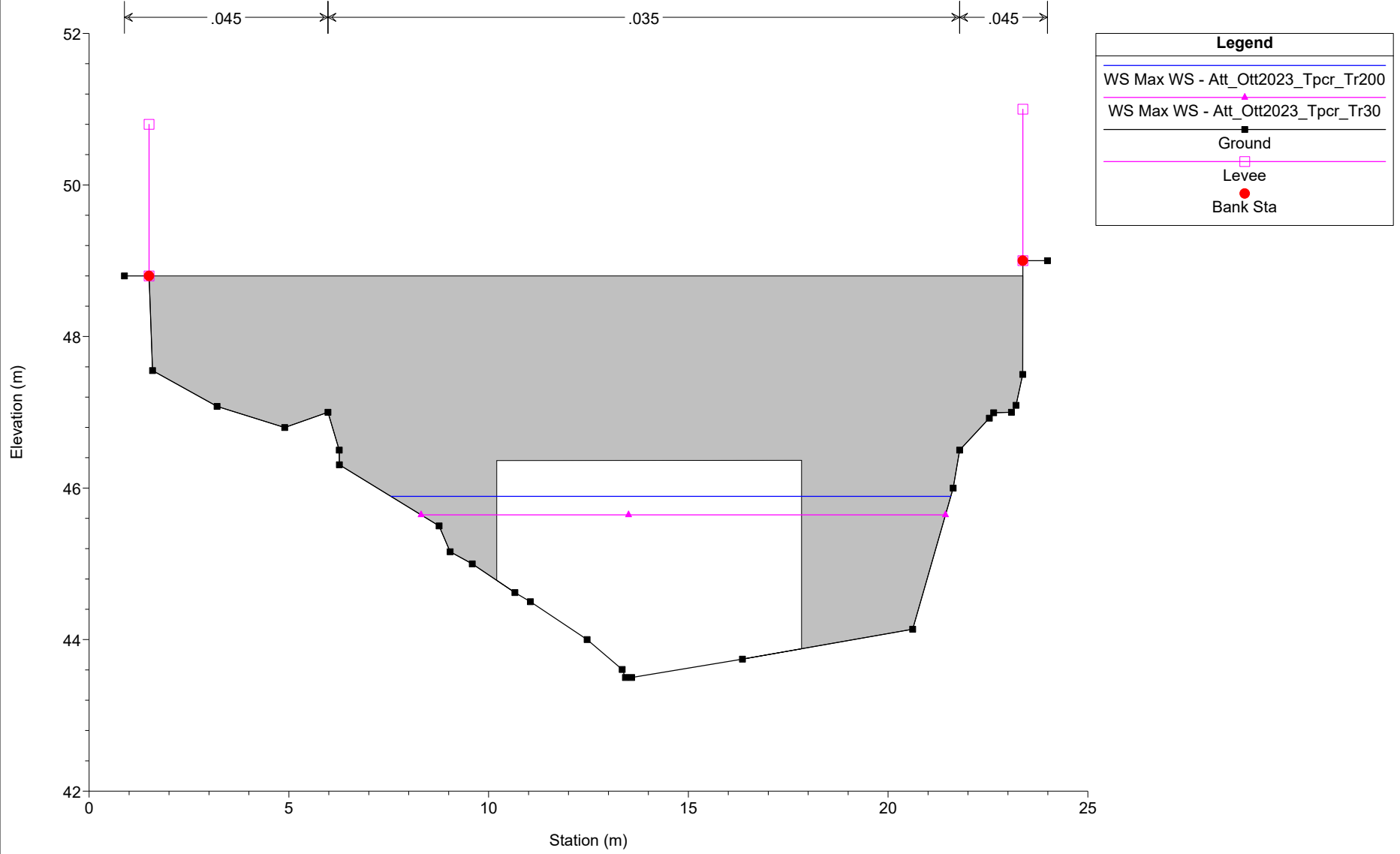
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -86



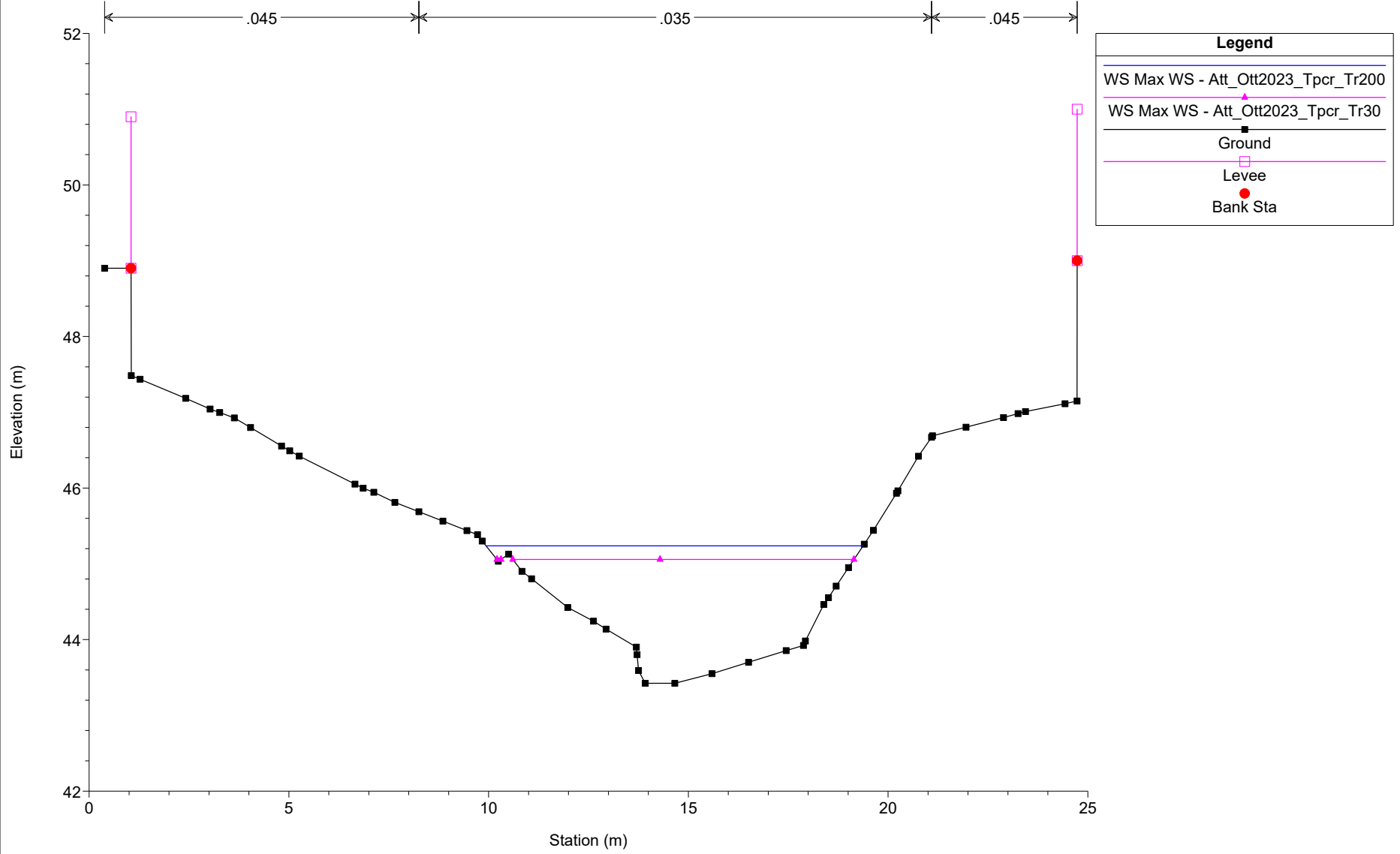
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -86.5 BR



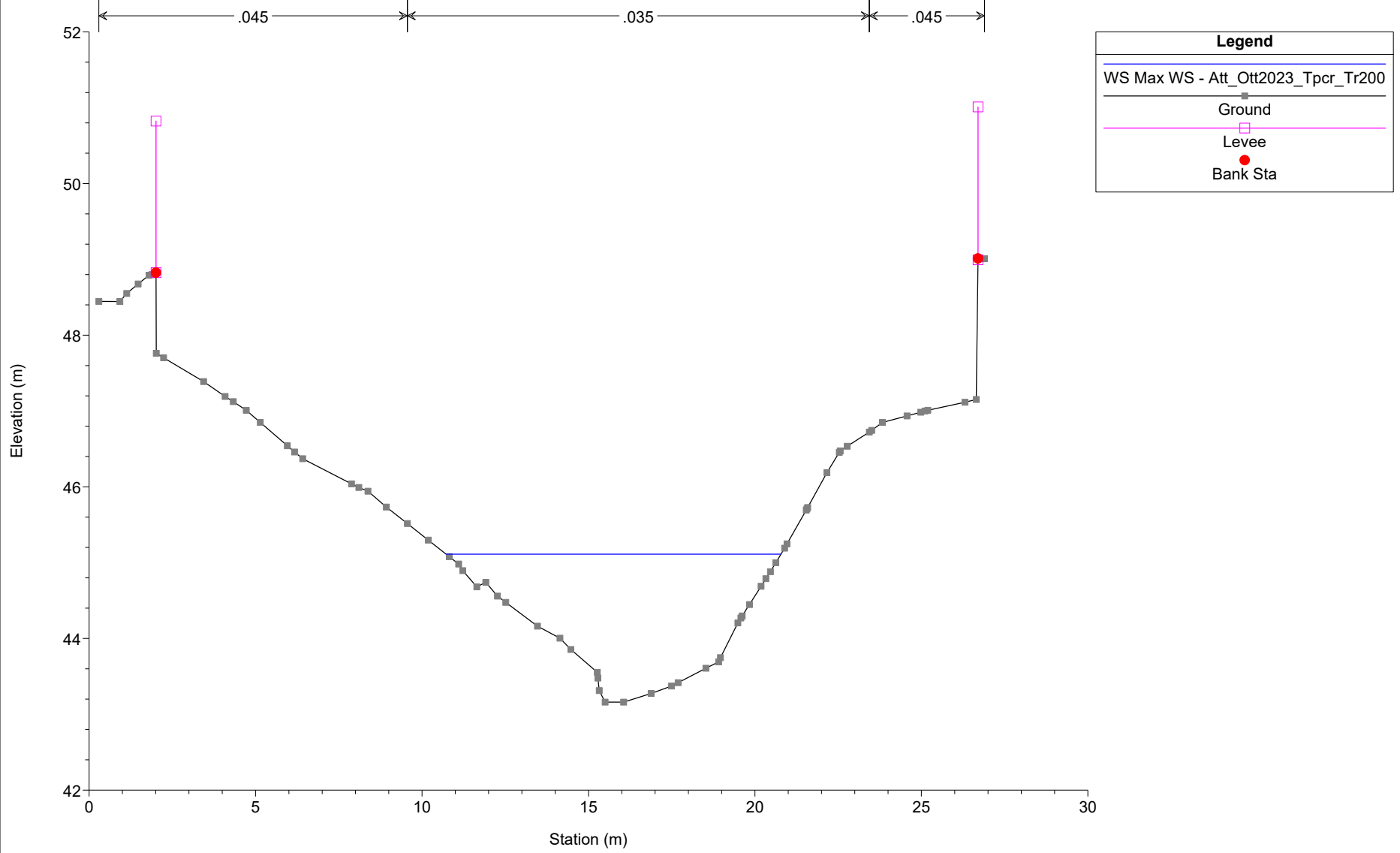
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -87.1



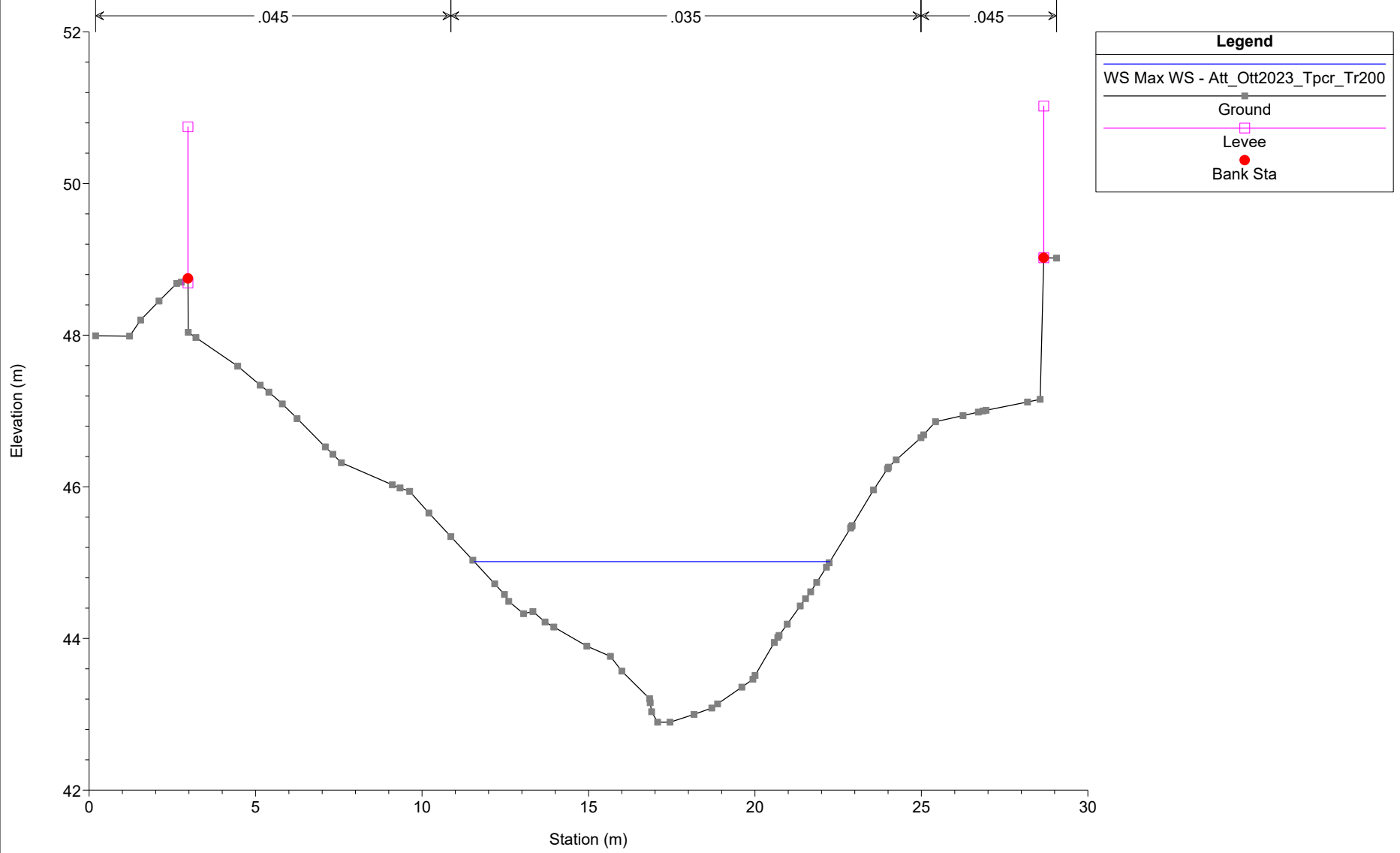
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -87.325\*



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

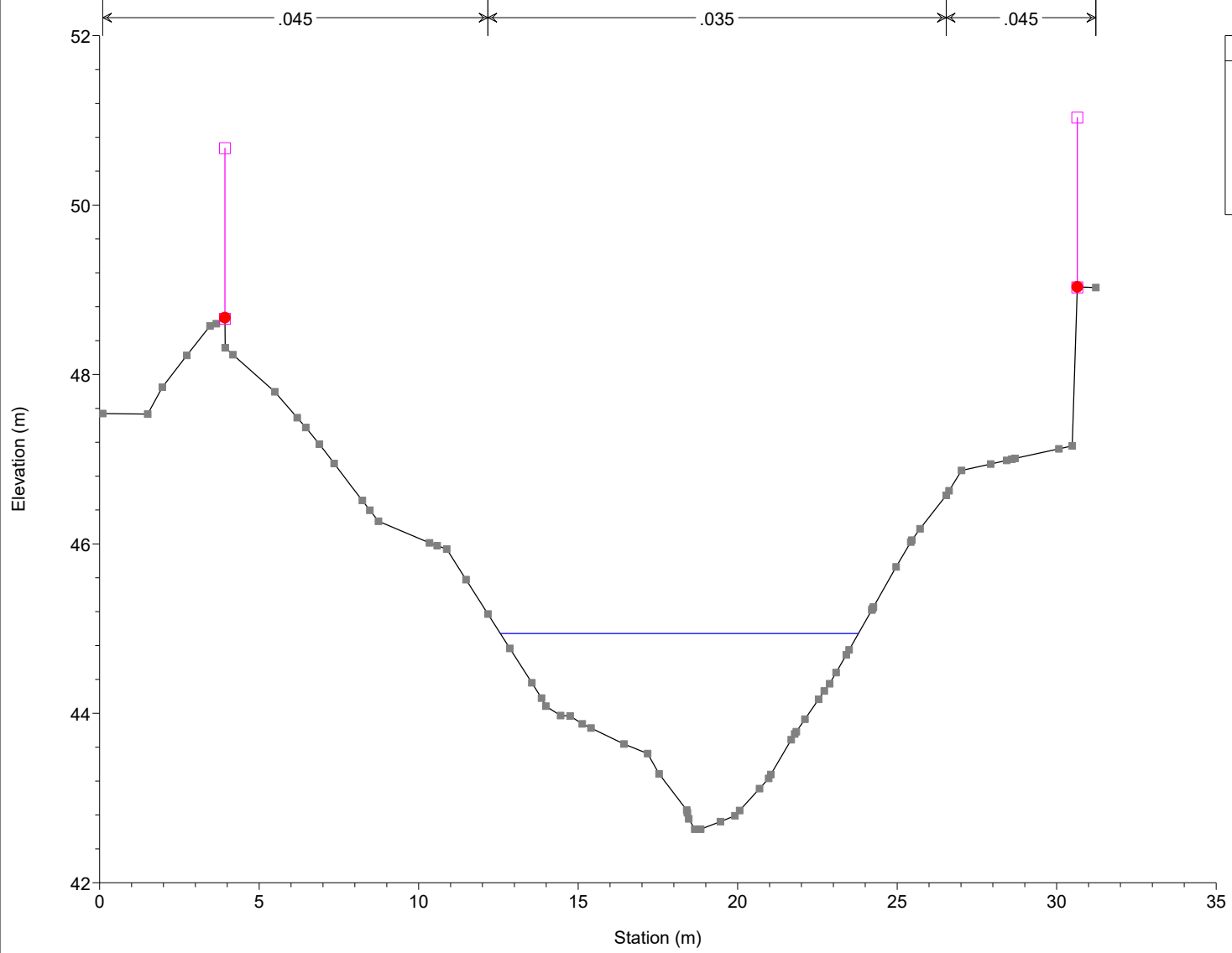
River = Rio Morto Reach = Rio Morto RS = -87.550\*





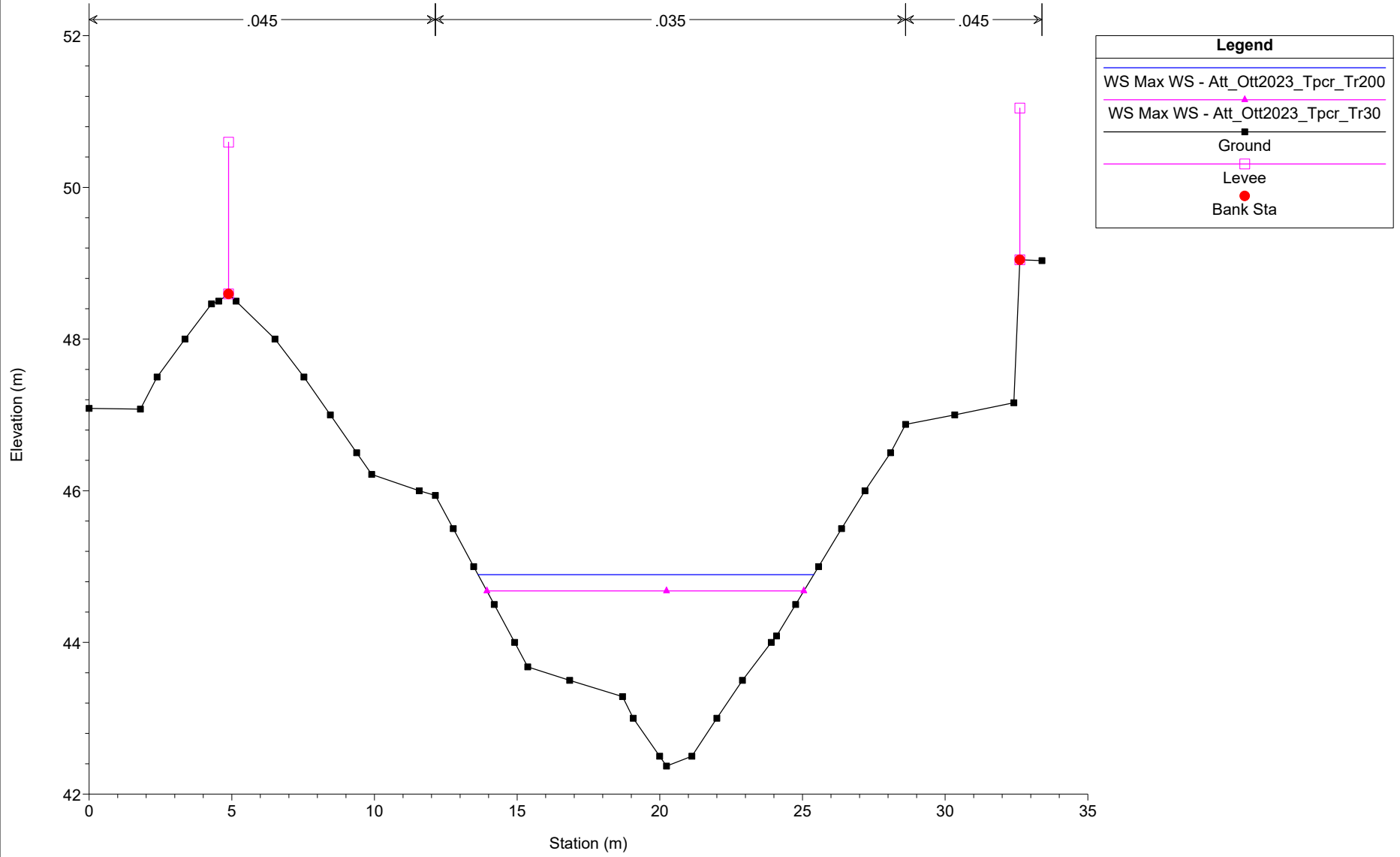
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -87.775\*



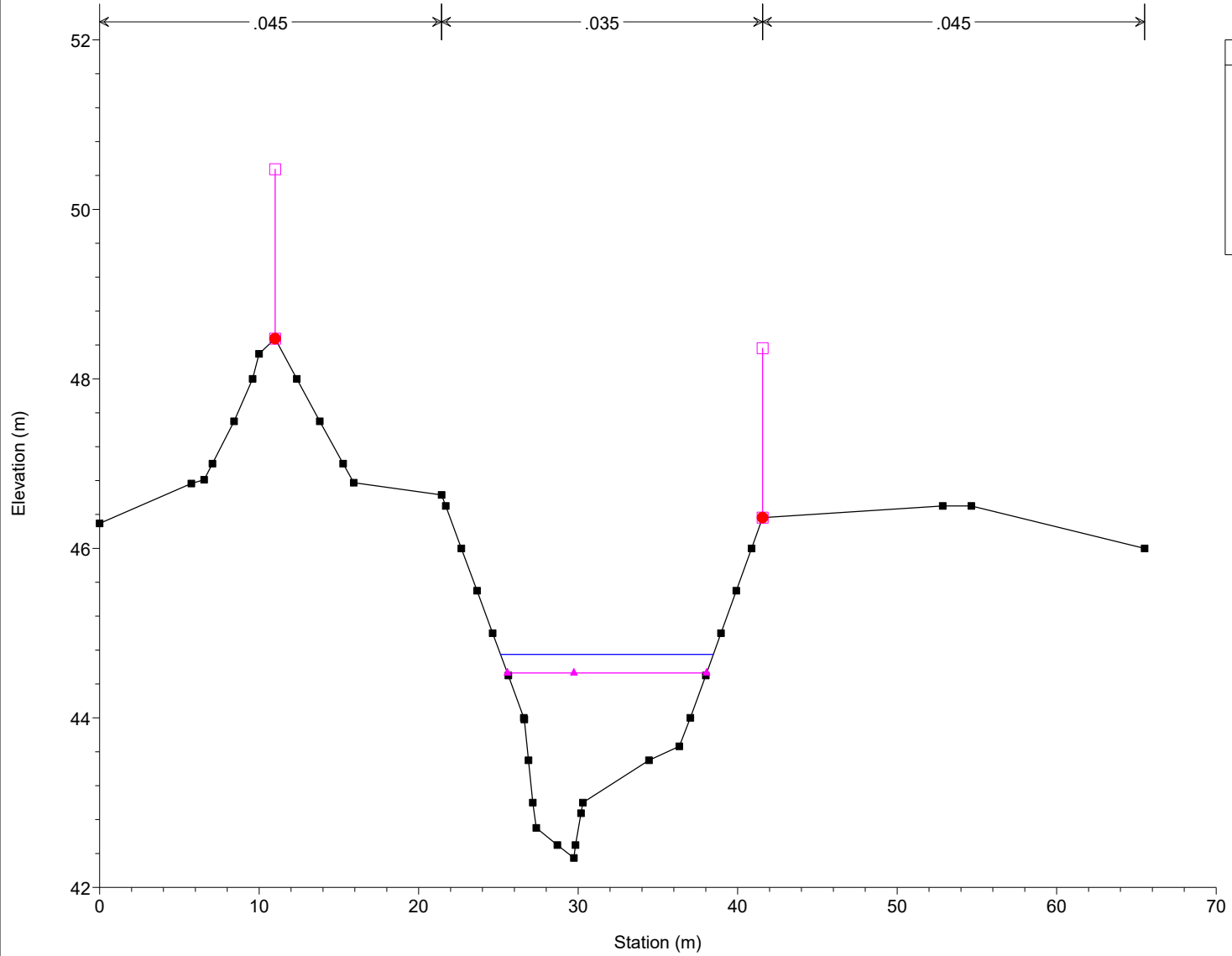
1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -88



1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

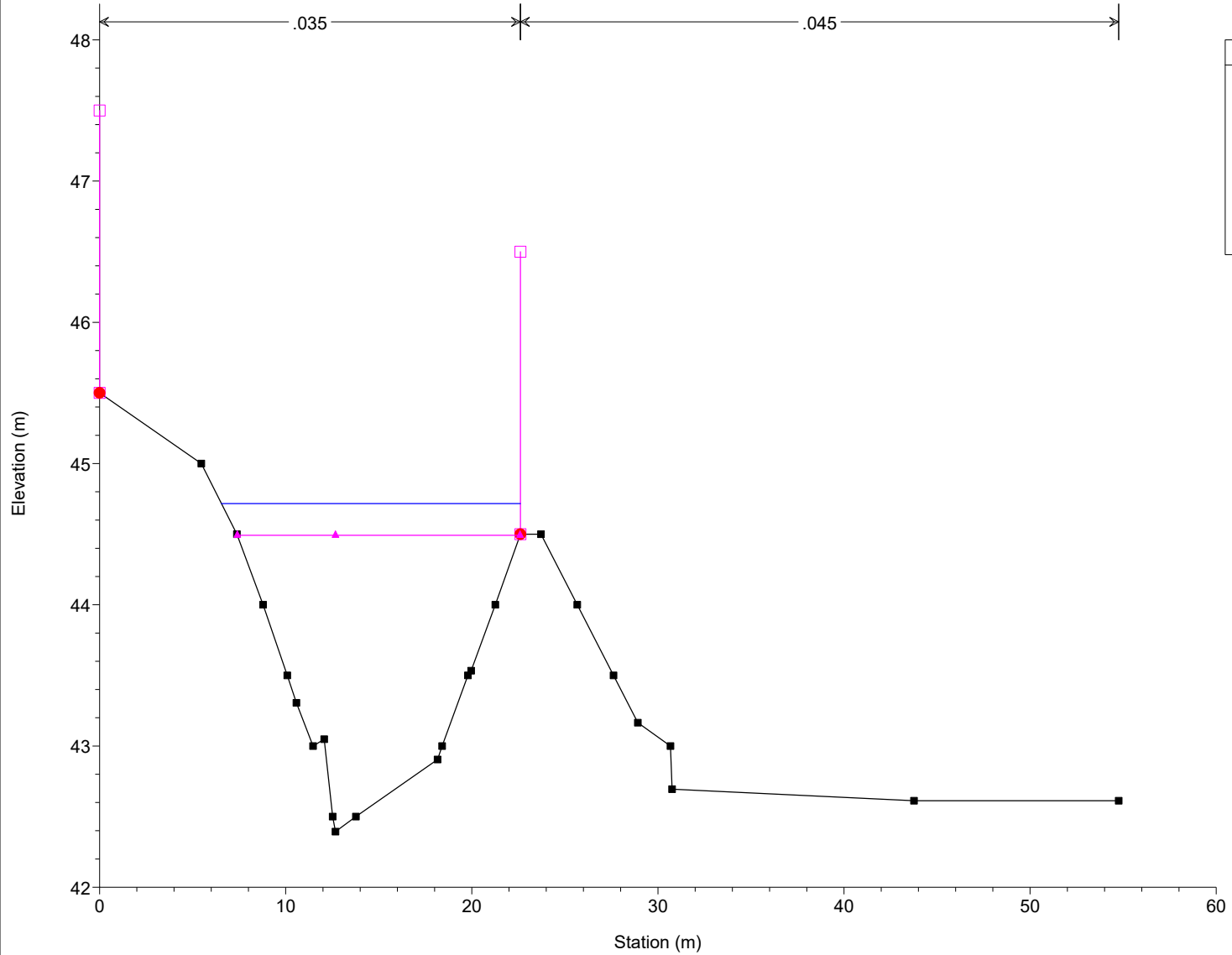
River = Rio Morto Reach = Rio Morto RS = -89



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	■
WS Max WS - Att_Ott2023_Tpcr_Tr30	▲
Ground	■
Levee	□
Bank Sta	●

1) Att\_Ott2023\_Tpcr\_Tr200 2) Att\_Ott2023\_Tpcr\_Tr30

River = Rio Morto Reach = Rio Morto RS = -90



Legend	
WS Max WS - Att_Ott2023_Tpcr_Tr200	
WS Max WS - Att_Ott2023_Tpcr_Tr30	
Ground	
Levee	
Bank Sta	

HEC-RAS River: Rio Morto Reach: Rio Morto Profile: Max WS

Reach	River Sta	Profile	Plan	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
Rio Morto	-1	Max WS	Att_Ott2020_Tpcr_Tr200	56.21	53.38	56.72	56.92	58.52	0.038672	5.94	9.46	3.19	1.10
Rio Morto	-1	Max WS	Att_Ott2020_Tpcr_Tr30	39.56	53.38	57.06		57.15	0.001943	1.39	30.31	12.89	0.24
Rio Morto	-1.1	Max WS	Att_Ott2020_Tpcr_Tr200	56.21	53.45	56.63	56.68	58.03	0.025609	5.25	10.71	4.02	1.03
Rio Morto	-1.2		Lat Struct										
Rio Morto	-1.3		Lat Struct										
Rio Morto	-2	Max WS	Att_Ott2020_Tpcr_Tr200	22.98	53.11	55.98		56.73	0.022203	3.83	5.99	2.55	0.80
Rio Morto	-2	Max WS	Att_Ott2020_Tpcr_Tr30	39.56	53.11	56.34	56.53	58.01	0.046843	5.73	6.90	2.55	1.11
Rio Morto	-2.1		Lat Struct										
Rio Morto	-2.2		Lat Struct										
Rio Morto	-3	Max WS	Att_Ott2020_Tpcr_Tr200	15.71	53.19	55.57		55.90	0.008502	2.55	6.16	3.41	0.61
Rio Morto	-3	Max WS	Att_Ott2020_Tpcr_Tr30	16.22	53.19	55.49		55.88	0.010113	2.75	5.91	3.41	0.67
Rio Morto	-4	Max WS	Att_Ott2020_Tpcr_Tr200	15.59	53.11	55.49		55.66	0.003548	1.84	8.49	4.90	0.45
Rio Morto	-4	Max WS	Att_Ott2020_Tpcr_Tr30	15.71	53.11	55.38		55.58	0.004285	1.97	7.96	4.90	0.49
Rio Morto	-5	Max WS	Att_Ott2020_Tpcr_Tr200	15.35	52.57	55.32		55.55	0.005440	2.12	7.24	3.87	0.50
Rio Morto	-5	Max WS	Att_Ott2020_Tpcr_Tr30	14.96	52.57	55.14		55.41	0.006681	2.28	6.57	3.87	0.56
Rio Morto	-5.5000	Max WS	Att_Ott2020_Tpcr_Tr200	15.26	52.51	55.27		55.46	0.004115	1.90	8.02	4.61	0.46
Rio Morto	-5.5000	Max WS	Att_Ott2020_Tpcr_Tr30	15.25	52.51	55.09		55.32	0.005517	2.12	7.20	4.61	0.54
Rio Morto	-6	Max WS	Att_Ott2020_Tpcr_Tr200	15.08	52.52	55.17		55.38	0.004899	2.03	7.43	4.20	0.49
Rio Morto	-6	Max WS	Att_Ott2020_Tpcr_Tr30	14.87	52.52	54.96		55.22	0.006692	2.27	6.55	4.20	0.58
Rio Morto	-7	Max WS	Att_Ott2020_Tpcr_Tr200	14.41	52.28	55.11		55.27	0.003430	1.75	8.22	4.18	0.40
Rio Morto	-7	Max WS	Att_Ott2020_Tpcr_Tr30	13.63	52.28	54.89		55.06	0.004229	1.87	7.29	4.18	0.45
Rio Morto	-8	Max WS	Att_Ott2020_Tpcr_Tr200	13.39	52.28	55.02		55.19	0.004136	1.81	7.40	4.29	0.44
Rio Morto	-8	Max WS	Att_Ott2020_Tpcr_Tr30	12.17	52.28	54.80		54.98	0.005053	1.90	6.42	4.29	0.50
Rio Morto	-9	Max WS	Att_Ott2020_Tpcr_Tr200	12.57	52.22	54.98		55.10	0.002646	1.55	8.10	4.31	0.36
Rio Morto	-9	Max WS	Att_Ott2020_Tpcr_Tr30	11.80	52.22	54.70		54.85	0.003561	1.71	6.92	4.31	0.43

HEC-RAS River: Rio Morto Reach: Rio Morto Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio Morto	-10	Max WS	Att_Ott2020_Tpccr_Tr200	12.01	51.99	54.89		55.01	0.002627	1.51	7.93	3.90	0.34
Rio Morto	-10	Max WS	Att_Ott2020_Tpccr_Tr30	10.94	51.99	54.61		54.74	0.003253	1.60	6.82	3.90	0.39
Rio Morto	-11	Max WS	Att_Ott2020_Tpccr_Tr200	10.31	51.82	54.91		54.99	0.001712	1.24	8.32	3.91	0.27
Rio Morto	-11	Max WS	Att_Ott2020_Tpccr_Tr30	9.98	51.82	54.58		54.68	0.002504	1.42	7.03	3.91	0.34
Rio Morto	-12	Max WS	Att_Ott2020_Tpccr_Tr200	14.58	51.83	54.68		54.84	0.003466	1.78	8.18	4.09	0.40
Rio Morto	-12	Max WS	Att_Ott2020_Tpccr_Tr30	13.63	51.83	54.29		54.51	0.005305	2.06	6.63	4.09	0.52
Rio Morto	-13	Max WS	Att_Ott2020_Tpccr_Tr200	28.14	51.71	54.28	54.36	55.22	0.024477	4.31	6.53	4.02	1.08
Rio Morto	-13	Max WS	Att_Ott2020_Tpccr_Tr30	19.39	51.71	53.80	53.98	54.70	0.029684	4.20	4.61	3.76	1.21
Rio Morto	-13.500*	Max WS	Att_Ott2020_Tpccr_Tr200	33.82	51.36	54.08		54.32	0.003490	2.18	15.53	8.52	0.51
Rio Morto	-14	Max WS	Att_Ott2020_Tpccr_Tr200	40.95	51.00	54.10		54.21	0.001200	1.45	28.27	13.01	0.31
Rio Morto	-14	Max WS	Att_Ott2020_Tpccr_Tr30	26.04	51.00	53.36		53.46	0.001677	1.40	18.66	12.61	0.37
Rio Morto	-14.500*	Max WS	Att_Ott2020_Tpccr_Tr200	50.81	50.74	53.91		54.13	0.002505	2.08	24.44	11.99	0.46
Rio Morto	-15	Max WS	Att_Ott2020_Tpccr_Tr200	57.50	50.49	53.71		54.11	0.005425	2.81	20.48	10.82	0.65
Rio Morto	-15	Max WS	Att_Ott2020_Tpccr_Tr30	35.02	50.49	53.07		53.39	0.005562	2.49	14.04	9.23	0.65
Rio Morto	-15.2			Lat Struct									
Rio Morto	-15.500*	Max WS	Att_Ott2020_Tpccr_Tr200	58.30	50.49	53.61		54.04	0.005733	2.92	19.97	10.60	0.68
Rio Morto	-16	Max WS	Att_Ott2020_Tpccr_Tr200	58.83	50.50	53.51		53.95	0.005834	2.94	20.00	10.73	0.69
Rio Morto	-16	Max WS	Att_Ott2020_Tpccr_Tr30	35.02	50.50	52.90		53.23	0.005715	2.54	13.81	9.33	0.67
Rio Morto	-17	Max WS	Att_Ott2020_Tpccr_Tr200	58.41	50.24	53.27		53.99	0.010843	3.78	15.46	8.33	0.89
Rio Morto	-17	Max WS	Att_Ott2020_Tpccr_Tr30	35.02	50.24	52.66		53.20	0.010402	3.26	10.74	7.24	0.85
Rio Morto	-18	Max WS	Att_Ott2020_Tpccr_Tr200	58.89	50.18	52.99		53.61	0.008270	3.51	16.80	7.87	0.77
Rio Morto	-18	Max WS	Att_Ott2020_Tpccr_Tr30	35.03	50.18	52.41		52.82	0.006691	2.81	12.46	7.31	0.69
Rio Morto	-19	Max WS	Att_Ott2020_Tpccr_Tr200	58.86	50.48	52.82		53.21	0.005187	2.74	21.49	12.51	0.67
Rio Morto	-19	Max WS	Att_Ott2020_Tpccr_Tr30	35.02	50.48	52.30		52.57	0.004903	2.29	15.27	11.37	0.63

HEC-RAS River: Rio Morto Reach: Rio Morto Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio Morto	-20	Max WS	Att_Ott2020_Tpccr_Tr200	58.84	49.90	52.58	52.54	53.30	0.012082	3.78	15.57	9.97	0.97
Rio Morto	-20	Max WS	Att_Ott2020_Tpccr_Tr30	35.02	49.90	52.09		52.59	0.010209	3.15	11.13	8.23	0.86
Rio Morto	-21	Max WS	Att_Ott2020_Tpccr_Tr200	58.81	50.09	52.31		52.68	0.006089	2.68	21.98	15.13	0.71
Rio Morto	-21	Max WS	Att_Ott2020_Tpccr_Tr30	35.01	50.09	51.84		52.12	0.006614	2.31	15.14	14.02	0.71
Rio Morto	-22	Max WS	Att_Ott2020_Tpccr_Tr200	58.78	49.75	52.16		52.47	0.004835	2.48	23.75	15.61	0.64
Rio Morto	-22	Max WS	Att_Ott2020_Tpccr_Tr30	34.99	49.75	51.67		51.90	0.005204	2.13	16.41	14.50	0.64
Rio Morto	-23	Max WS	Att_Ott2020_Tpccr_Tr200	58.78	49.41	52.05		52.27	0.002944	2.10	27.96	16.13	0.51
Rio Morto	-23	Max WS	Att_Ott2020_Tpccr_Tr30	34.96	49.41	51.55		51.70	0.002675	1.72	20.30	14.90	0.47
Rio Morto	-24	Max WS	Att_Ott2020_Tpccr_Tr200	58.77	49.41	51.92		52.18	0.003639	2.26	26.01	15.82	0.56
Rio Morto	-24	Max WS	Att_Ott2020_Tpccr_Tr30	34.94	49.41	51.44		51.62	0.003433	1.87	18.66	14.63	0.53
Rio Morto	-25	Max WS	Att_Ott2020_Tpccr_Tr200	58.77	49.38	51.87		52.07	0.002649	1.98	29.65	17.44	0.49
Rio Morto	-25	Max WS	Att_Ott2020_Tpccr_Tr30	34.92	49.38	51.39		51.52	0.002454	1.63	21.46	16.25	0.45
Rio Morto	-26	Max WS	Att_Ott2020_Tpccr_Tr200	58.75	49.33	51.80		52.00	0.002574	2.00	29.45	16.57	0.48
Rio Morto	-26	Max WS	Att_Ott2020_Tpccr_Tr30	34.91	49.33	51.33		51.46	0.002207	1.60	21.88	15.59	0.43
Rio Morto	-27	Max WS	Att_Ott2020_Tpccr_Tr200	58.75	49.27	51.75		51.93	0.002227	1.88	31.22	17.45	0.45
Rio Morto	-27	Max WS	Att_Ott2020_Tpccr_Tr30	34.91	49.27	51.28		51.40	0.001848	1.49	23.39	16.31	0.40
Rio Morto	-28	Max WS	Att_Ott2020_Tpccr_Tr200	58.75	49.02	51.63		51.86	0.002928	2.10	28.00	16.18	0.51
Rio Morto	-28	Max WS	Att_Ott2020_Tpccr_Tr30	34.89	49.02	51.20		51.34	0.002419	1.65	21.09	15.37	0.45
Rio Morto	-29	Max WS	Att_Ott2020_Tpccr_Tr200	58.75	48.84	51.49		51.77	0.004082	2.34	25.15	15.86	0.59
Rio Morto	-29	Max WS	Att_Ott2020_Tpccr_Tr30	34.89	48.84	51.08		51.25	0.003299	1.84	18.93	14.64	0.52
Rio Morto	-30	Max WS	Att_Ott2020_Tpccr_Tr200	58.74	48.50	51.43		51.65	0.002937	2.08	28.25	16.25	0.50
Rio Morto	-30	Max WS	Att_Ott2020_Tpccr_Tr30	34.88	48.50	51.04		51.17	0.002169	1.58	22.09	15.51	0.42
Rio Morto	-30.2			Lat Struct									
Rio Morto	-31	Max WS	Att_Ott2020_Tpccr_Tr200	58.74	48.13	51.29		51.56	0.003816	2.31	25.47	14.60	0.56
Rio Morto	-31	Max WS	Att_Ott2020_Tpccr_Tr30	34.88	48.13	50.96		51.10	0.002448	1.68	20.76	13.80	0.44
Rio Morto	-32	Max WS	Att_Ott2020_Tpccr_Tr200	58.74	48.12	51.24		51.45	0.002714	2.02	29.12	16.60	0.49





HEC-RAS River: Rio Morto Reach: Rio Morto Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio Morto	-45	Max WS	Att_Ott2020_Tpcr_Tr200	66.09	47.24	49.69		49.82	0.001863	1.56	42.35	28.60	0.41
Rio Morto	-45	Max WS	Att_Ott2020_Tpcr_Tr30	39.58	47.24	49.26		49.35	0.001728	1.29	30.60	26.04	0.38
Rio Morto	-45.2			Lat Struct									
Rio Morto	-46	Max WS	Att_Ott2020_Tpcr_Tr200	65.59	47.00	49.57		49.76	0.002563	1.90	34.54	21.23	0.48
Rio Morto	-46	Max WS	Att_Ott2020_Tpcr_Tr30	39.57	47.00	49.18		49.29	0.002153	1.51	26.26	20.25	0.42
Rio Morto	-47	Max WS	Att_Ott2020_Tpcr_Tr200	65.35	47.08	49.53		49.68	0.002381	1.74	37.62	25.20	0.45
Rio Morto	-47	Max WS	Att_Ott2020_Tpcr_Tr30	39.57	47.08	49.12		49.22	0.002353	1.44	27.44	24.52	0.44
Rio Morto	-48	Max WS	Att_Ott2020_Tpcr_Tr200	65.15	46.97	49.45		49.61	0.002247	1.81	35.92	21.64	0.45
Rio Morto	-48	Max WS	Att_Ott2020_Tpcr_Tr30	39.57	46.97	49.06		49.16	0.001850	1.43	27.61	20.78	0.40
Rio Morto	-49	Max WS	Att_Ott2020_Tpcr_Tr200	65.61	46.88	49.38		49.54	0.002297	1.81	36.27	22.38	0.45
Rio Morto	-49	Max WS	Att_Ott2020_Tpcr_Tr30	39.56	46.88	49.00		49.10	0.001785	1.40	28.16	21.11	0.39
Rio Morto	-50	Max WS	Att_Ott2020_Tpcr_Tr200	65.52	46.96	49.32		49.48	0.002042	1.74	37.67	22.57	0.43
Rio Morto	-50	Max WS	Att_Ott2020_Tpcr_Tr30	39.54	46.96	48.96		49.05	0.001527	1.33	29.75	21.64	0.36
Rio Morto	-51	Max WS	Att_Ott2020_Tpcr_Tr200	65.47	46.91	49.26		49.41	0.002157	1.73	37.76	23.82	0.44
Rio Morto	-51	Max WS	Att_Ott2020_Tpcr_Tr30	39.51	46.91	48.92		49.01	0.001580	1.32	29.86	22.47	0.37
Rio Morto	-52	Max WS	Att_Ott2020_Tpcr_Tr200	65.45	46.89	49.18		49.36	0.002735	1.89	34.61	23.07	0.49
Rio Morto	-52	Max WS	Att_Ott2020_Tpcr_Tr30	39.48	46.89	48.86		48.97	0.002014	1.44	27.48	22.12	0.41
Rio Morto	-53	Max WS	Att_Ott2020_Tpcr_Tr200	65.38	46.80	49.11		49.28	0.002513	1.82	35.95	23.32	0.47
Rio Morto	-53	Max WS	Att_Ott2020_Tpcr_Tr30	39.43	46.80	48.82		48.91	0.001655	1.34	29.34	22.09	0.37
Rio Morto	-54	Max WS	Att_Ott2020_Tpcr_Tr200	64.22	46.51	49.06		49.21	0.002002	1.71	37.65	22.71	0.42
Rio Morto	-54	Max WS	Att_Ott2020_Tpcr_Tr30	39.37	46.51	48.78		48.86	0.001341	1.26	31.30	22.47	0.34
Rio Morto	-55	Max WS	Att_Ott2020_Tpcr_Tr200	63.66	46.51	49.01		49.15	0.001880	1.66	38.27	23.24	0.41
Rio Morto	-55	Max WS	Att_Ott2020_Tpcr_Tr30	39.30	46.51	48.74		48.82	0.001186	1.22	32.31	22.30	0.32
Rio Morto	-56	Max WS	Att_Ott2020_Tpcr_Tr200	63.32	46.42	48.98		49.10	0.001491	1.54	41.20	23.56	0.37
Rio Morto	-56	Max WS	Att_Ott2020_Tpcr_Tr30	38.82	46.42	48.72		48.79	0.000901	1.10	35.32	23.21	0.28

HEC-RAS River: Rio Morto Reach: Rio Morto Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio Morto	-57	Max WS	Att_Ott2020_Tpccr_Tr200	61.19	46.42	48.95		49.06	0.001370	1.48	41.41	23.49	0.36
Rio Morto	-57	Max WS	Att_Ott2020_Tpccr_Tr30	38.55	46.42	48.70		48.76	0.000877	1.08	35.53	23.30	0.28
Rio Morto	-58	Max WS	Att_Ott2020_Tpccr_Tr200	58.48	46.25	48.94		49.03	0.001117	1.36	43.11	23.64	0.32
Rio Morto	-58	Max WS	Att_Ott2020_Tpccr_Tr30	37.34	46.25	48.69		48.74	0.000728	1.00	37.15	23.64	0.26
Rio Morto	-59	Max WS	Att_Ott2020_Tpccr_Tr200	56.29	46.16	48.92		49.01	0.001077	1.31	42.94	24.18	0.31
Rio Morto	-59	Max WS	Att_Ott2020_Tpccr_Tr30	36.31	46.16	48.67		48.72	0.000724	0.98	36.90	24.18	0.25
Rio Morto	-60	Max WS	Att_Ott2020_Tpccr_Tr200	54.17	46.36	48.92		48.99	0.000765	1.16	46.77	24.12	0.27
Rio Morto	-60	Max WS	Att_Ott2020_Tpccr_Tr30	35.14	46.36	48.66		48.70	0.000502	0.87	40.61	24.12	0.21
Rio Morto	-61	Max WS	Att_Ott2020_Tpccr_Tr200	50.16	45.95	48.91		48.98	0.000663	1.09	45.96	22.89	0.25
Rio Morto	-61	Max WS	Att_Ott2020_Tpccr_Tr30	34.46	45.95	48.65		48.69	0.000488	0.86	39.89	22.89	0.21
Rio Morto	-62	Max WS	Att_Ott2020_Tpccr_Tr200	36.49	45.67	48.91		48.98	0.001040	1.18	30.99	18.68	0.29
Rio Morto	-62	Max WS	Att_Ott2020_Tpccr_Tr30	26.12	45.67	48.63		48.69	0.000920	1.01	25.86	18.12	0.27
Rio Morto	-63	Max WS	Att_Ott2020_Tpccr_Tr200	23.65	45.49	48.97		48.98	0.000142	0.52	45.84	22.23	0.11
Rio Morto	-63	Max WS	Att_Ott2020_Tpccr_Tr30	18.78	45.49	48.67		48.68	0.000145	0.48	39.18	21.98	0.11
Rio Morto	-64	Max WS	Att_Ott2020_Tpccr_Tr200	38.86	45.50	48.71		48.98	0.003996	2.29	16.96	9.48	0.55
Rio Morto	-64	Max WS	Att_Ott2020_Tpccr_Tr30	30.59	45.50	48.44		48.67	0.003856	2.12	14.45	9.05	0.54
Rio Morto	-65	Max WS	Att_Ott2020_Tpccr_Tr200	37.55	45.47	48.78		48.85	0.001048	1.22	30.90	16.40	0.28
Rio Morto	-65	Max WS	Att_Ott2020_Tpccr_Tr30	30.06	45.47	48.49		48.55	0.000997	1.14	26.33	15.11	0.28
Rio Morto	-65.6	Max WS	Att_Ott2020_Tpccr_Tr200	37.46	45.53	48.81	46.91	48.83	0.000140	0.59	77.49	47.15	0.12
Rio Morto	-65.6	Max WS	Att_Ott2020_Tpccr_Tr30	30.07	45.53	48.52	46.78	48.53	0.000151	0.57	64.10	44.17	0.12
Rio Morto	-66			Bridge									
Rio Morto	-66.3	Max WS	Att_Ott2020_Tpccr_Tr200	37.46	45.35	48.80		48.82	0.000205	0.75	66.63	35.58	0.15
Rio Morto	-66.3	Max WS	Att_Ott2020_Tpccr_Tr30	30.05	45.35	48.51		48.53	0.000216	0.71	56.30	35.14	0.15
Rio Morto	-67	Max WS	Att_Ott2020_Tpccr_Tr200	37.40	45.00	48.64		49.04	0.013353	2.80	13.35	11.64	0.83
Rio Morto	-67	Max WS	Att_Ott2020_Tpccr_Tr30	30.03	45.00	48.35		48.76	0.009947	2.86	10.50	7.08	0.75
Rio Morto	-68	Max WS	Att_Ott2020_Tpccr_Tr200	37.32	44.89	48.37		48.52	0.003637	1.70	21.93	15.85	0.46

HEC-RAS River: Rio Morto Reach: Rio Morto Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Rio Morto	-68	Max WS	Att_Ott2020_Tpccr_Tr30	29.99	44.89	48.16		48.29	0.003649	1.60	18.73	15.02	0.46
Rio Morto	-68.1			Lat Struct									
Rio Morto	-69	Max WS	Att_Ott2020_Tpccr_Tr200	37.32	44.90	48.30		48.46	0.003569	1.76	21.23	14.69	0.47
Rio Morto	-69	Max WS	Att_Ott2020_Tpccr_Tr30	29.99	44.90	48.10		48.24	0.003359	1.63	18.35	13.68	0.45
Rio Morto	-70	Max WS	Att_Ott2020_Tpccr_Tr200	37.28	44.71	48.24		48.38	0.003308	1.65	22.65	15.52	0.44
Rio Morto	-70	Max WS	Att_Ott2020_Tpccr_Tr30	29.98	44.71	48.04		48.16	0.003233	1.53	19.59	14.82	0.43
Rio Morto	-71	Max WS	Att_Ott2020_Tpccr_Tr200	37.27	44.75	48.12		48.28	0.003763	1.74	21.40	15.52	0.47
Rio Morto	-71	Max WS	Att_Ott2020_Tpccr_Tr30	29.97	44.75	47.93		48.06	0.003687	1.63	18.41	14.67	0.46
Rio Morto	-72	Max WS	Att_Ott2020_Tpccr_Tr200	37.24	44.55	47.99		48.16	0.004437	1.84	20.27	14.96	0.50
Rio Morto	-72	Max WS	Att_Ott2020_Tpccr_Tr30	29.97	44.55	47.79		47.94	0.004452	1.72	17.40	14.31	0.50
Rio Morto	-73	Max WS	Att_Ott2020_Tpccr_Tr200	37.16	44.50	47.80		48.01	0.005727	2.02	18.36	14.76	0.58
Rio Morto	-73	Max WS	Att_Ott2020_Tpccr_Tr30	29.97	44.50	47.60		47.79	0.006137	1.94	15.43	14.05	0.59
Rio Morto	-74	Max WS	Att_Ott2020_Tpccr_Tr200	37.05	44.31	47.66		47.84	0.005193	1.92	19.29	15.21	0.54
Rio Morto	-74	Max WS	Att_Ott2020_Tpccr_Tr30	29.97	44.31	47.43		47.61	0.005951	1.88	15.93	14.52	0.57
Rio Morto	-75	Max WS	Att_Ott2020_Tpccr_Tr200	38.09	44.23	47.51		47.68	0.003958	1.83	20.84	14.58	0.49
Rio Morto	-75	Max WS	Att_Ott2020_Tpccr_Tr30	29.97	44.23	47.29		47.44	0.003895	1.69	17.74	13.97	0.48
Rio Morto	-76	Max WS	Att_Ott2020_Tpccr_Tr200	38.08	44.04	47.33		47.53	0.005713	2.00	19.03	14.83	0.56
Rio Morto	-76	Max WS	Att_Ott2020_Tpccr_Tr30	29.96	44.04	47.10		47.29	0.005982	1.89	15.82	13.98	0.57
Rio Morto	-77	Max WS	Att_Ott2020_Tpccr_Tr200	38.08	43.85	47.19		47.37	0.004787	1.87	20.38	15.95	0.53
Rio Morto	-77	Max WS	Att_Ott2020_Tpccr_Tr30	29.95	43.85	46.95		47.12	0.005339	1.80	16.63	15.10	0.55
Rio Morto	-78	Max WS	Att_Ott2020_Tpccr_Tr200	38.06	43.86	47.17		47.24	0.001854	1.18	32.25	25.61	0.34
Rio Morto	-78	Max WS	Att_Ott2020_Tpccr_Tr30	29.94	43.86	46.91		46.98	0.001877	1.16	25.88	21.79	0.34
Rio Morto	-79	Max WS	Att_Ott2020_Tpccr_Tr200	38.06	43.70	47.02		47.16	0.003916	1.69	22.54	17.48	0.47
Rio Morto	-79	Max WS	Att_Ott2020_Tpccr_Tr30	29.93	43.70	46.75		46.89	0.004254	1.65	18.15	15.66	0.49
Rio Morto	-80	Max WS	Att_Ott2020_Tpccr_Tr200	38.06	43.51	46.80		47.02	0.005384	2.04	18.66	13.80	0.56
Rio Morto	-80	Max WS	Att_Ott2020_Tpccr_Tr30	29.93	43.51	46.53		46.73	0.006117	2.00	14.96	12.71	0.59

HEC-RAS River: Rio Morto Reach: Rio Morto Profile: Max WS (Continued)

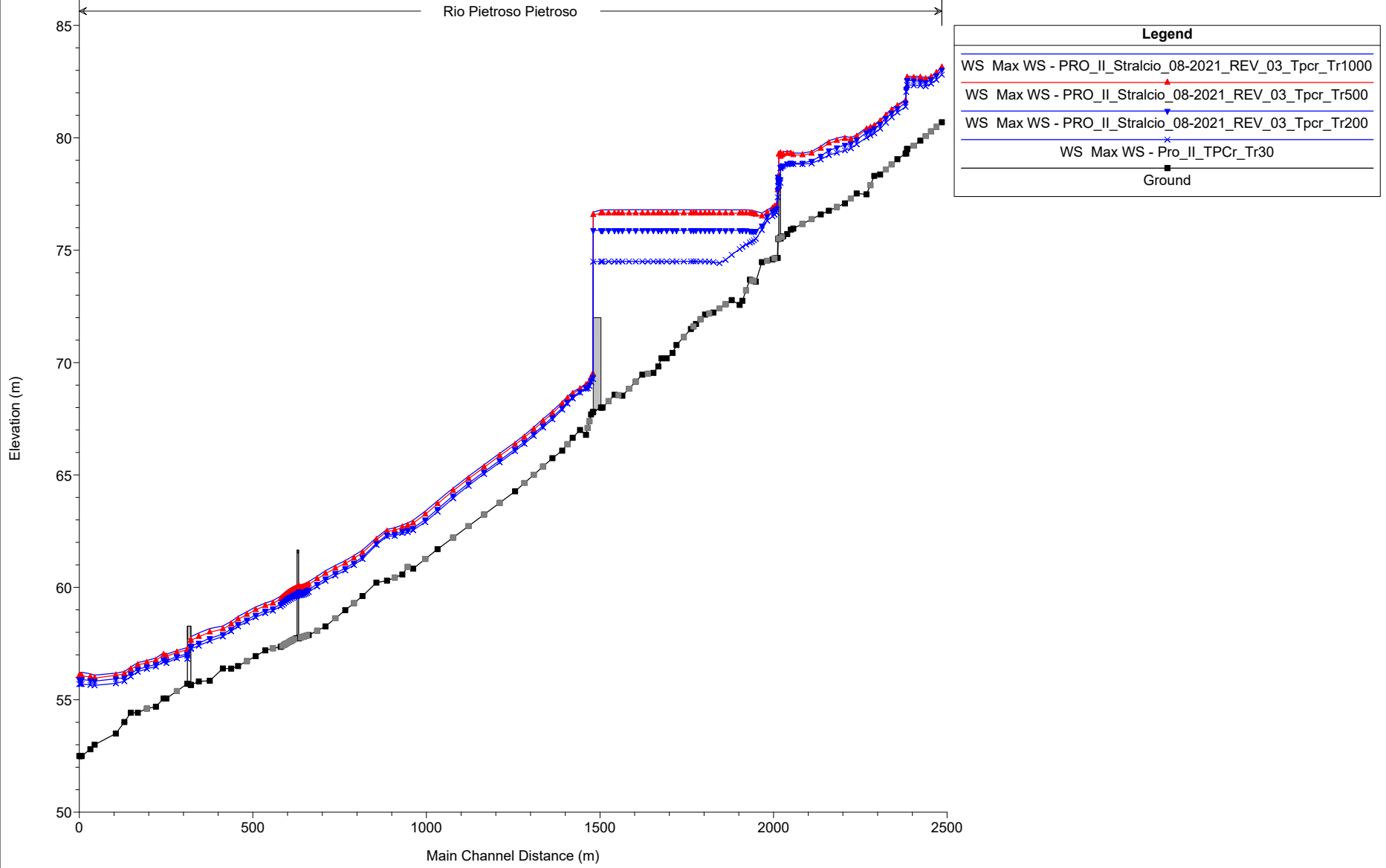
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Rio Morto	-81	Max WS	Att_Ott2020_Tpcr_Tr200	37.96	42.94	46.71		46.85	0.002875	1.62	23.48	15.15	0.41
Rio Morto	-81	Max WS	Att_Ott2020_Tpcr_Tr30	29.92	42.94	46.41		46.54	0.003097	1.56	19.13	13.87	0.43
Rio Morto	-82	Max WS	Att_Ott2020_Tpcr_Tr200	37.96	42.99	46.64		46.78	0.002568	1.63	23.23	14.05	0.41
Rio Morto	-82	Max WS	Att_Ott2020_Tpcr_Tr30	29.92	42.99	46.34		46.47	0.002455	1.55	19.31	12.44	0.40
Rio Morto	-83	Max WS	Att_Ott2020_Tpcr_Tr200	41.15	43.00	46.43		46.69	0.005870	2.28	18.08	12.32	0.60
Rio Morto	-83	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	43.00	46.14		46.38	0.005667	2.19	14.79	10.60	0.59
Rio Morto	-84	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	42.97	46.28		46.50	0.004632	2.08	19.80	12.58	0.53
Rio Morto	-84	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	42.97	45.98		46.18	0.005024	2.00	16.20	11.83	0.55
Rio Morto	-85	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	42.94	46.19		46.36	0.003289	1.82	22.61	13.66	0.45
Rio Morto	-85	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	42.94	45.88		46.03	0.003547	1.75	18.50	12.80	0.46
Rio Morto	-86	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	43.50	46.17	45.11	46.29	0.001577	1.54	26.68	14.98	0.37
Rio Morto	-86	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	43.50	45.85	44.94	45.96	0.001631	1.46	22.10	13.87	0.37
Rio Morto	-86.5			Bridge									
Rio Morto	-87.1	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	43.42	45.24	45.41	46.05	0.020203	3.98	10.33	9.44	1.22
Rio Morto	-87.1	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	43.42	45.06	45.20	45.77	0.021969	3.73	8.68	8.64	1.19
Rio Morto	-87.325*	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	43.16	45.11	45.20	45.80	0.016345	3.67	11.22	10.05	1.11
Rio Morto	-87.550*	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	42.90	45.01	44.98	45.56	0.012074	3.28	12.55	10.69	0.97
Rio Morto	-87.775*	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	42.63	44.94		45.37	0.008391	2.88	14.28	11.23	0.82
Rio Morto	-88	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	42.37	44.89		45.22	0.005733	2.51	16.36	11.76	0.68
Rio Morto	-88	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	42.37	44.68		44.95	0.005625	2.33	13.90	11.11	0.66
Rio Morto	-89	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	42.35	44.75		45.03	0.005285	2.33	17.67	13.34	0.65
Rio Morto	-89	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	42.35	44.53		44.77	0.005356	2.18	14.84	12.50	0.64
Rio Morto	-90	Max WS	Att_Ott2020_Tpcr_Tr200	41.14	42.39	44.72	44.10	44.89	0.003008	1.86	22.16	16.07	0.50
Rio Morto	-90	Max WS	Att_Ott2020_Tpcr_Tr30	32.37	42.39	44.49	43.92	44.65	0.003026	1.74	18.64	15.20	0.50

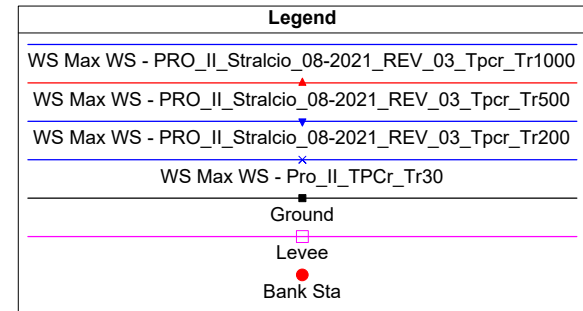
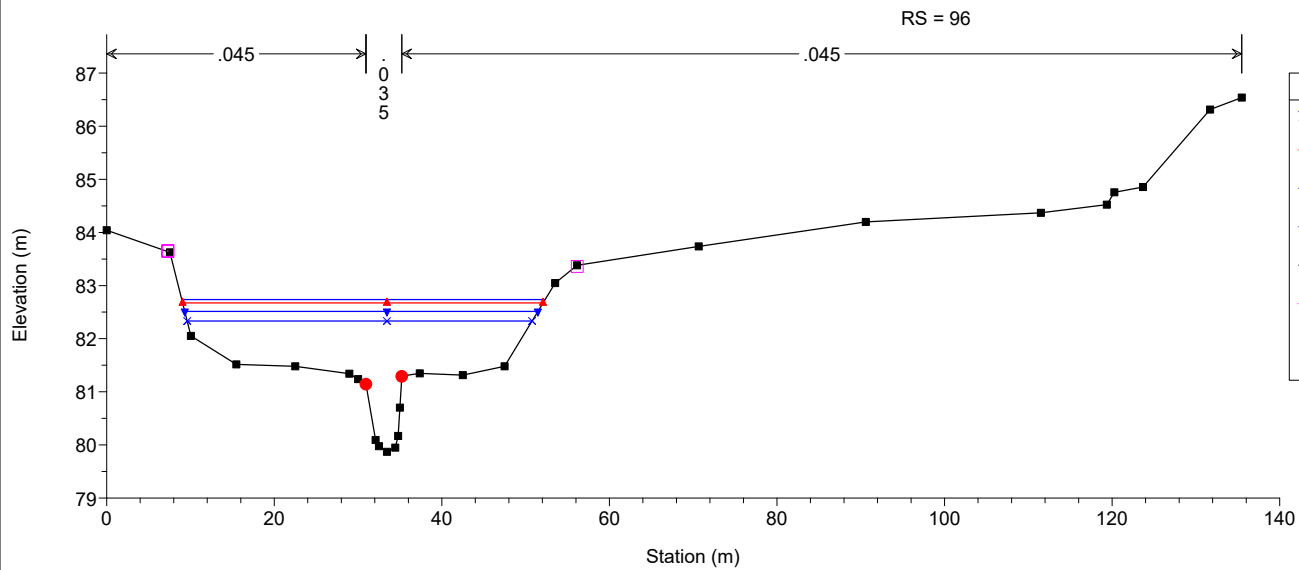
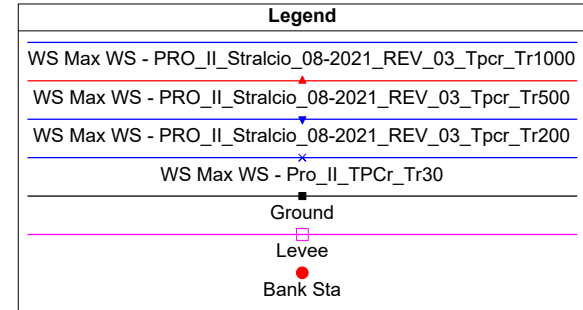
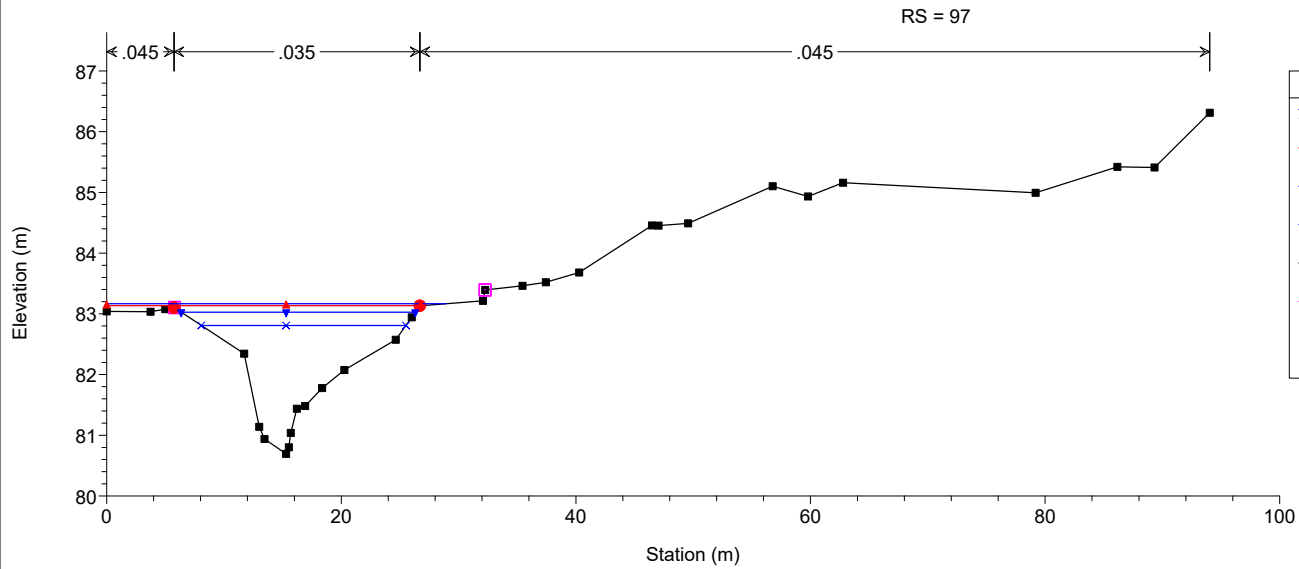
Verifiche Idrauliche  
Rio Pietroso e Rio Arnese  
Stato di progetto

**Rio Pietroso – Tratto di monte (sez. 97 – sez. 23.2)**

**Verifiche idrauliche moto vario stato di progetto**

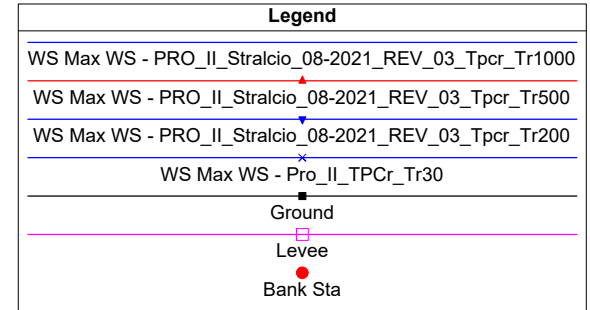
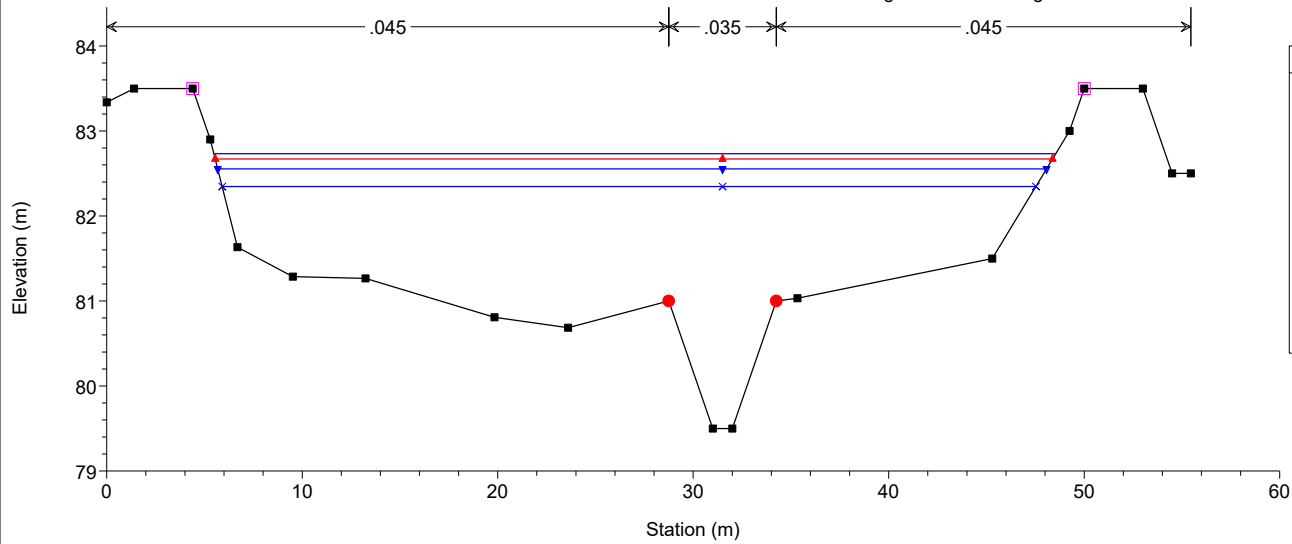
**Tr=1000, 500, 200 e Tr=30 anni – Tp Critico**



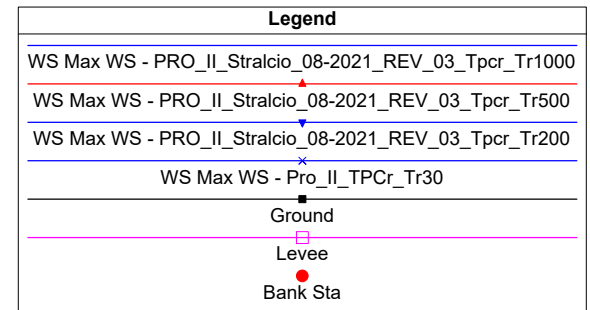
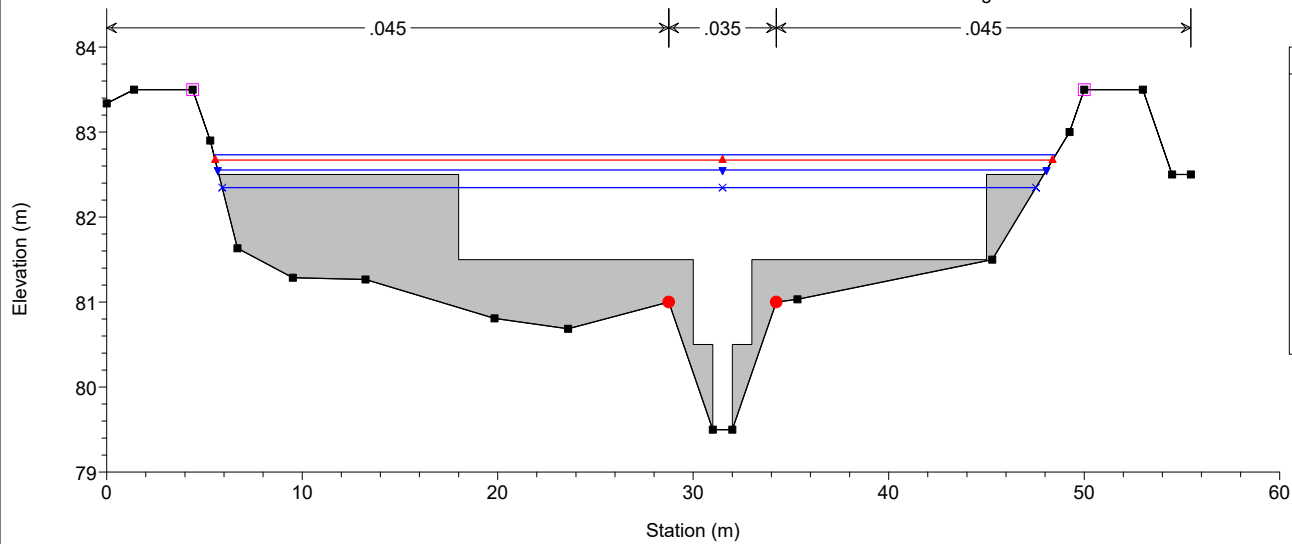




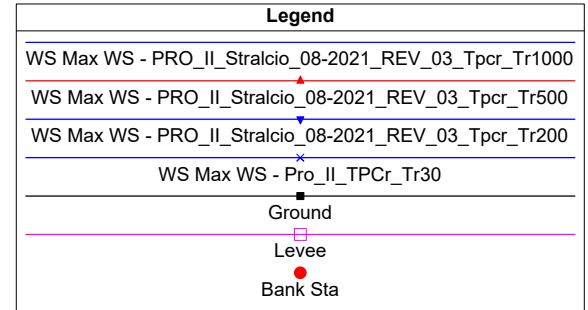
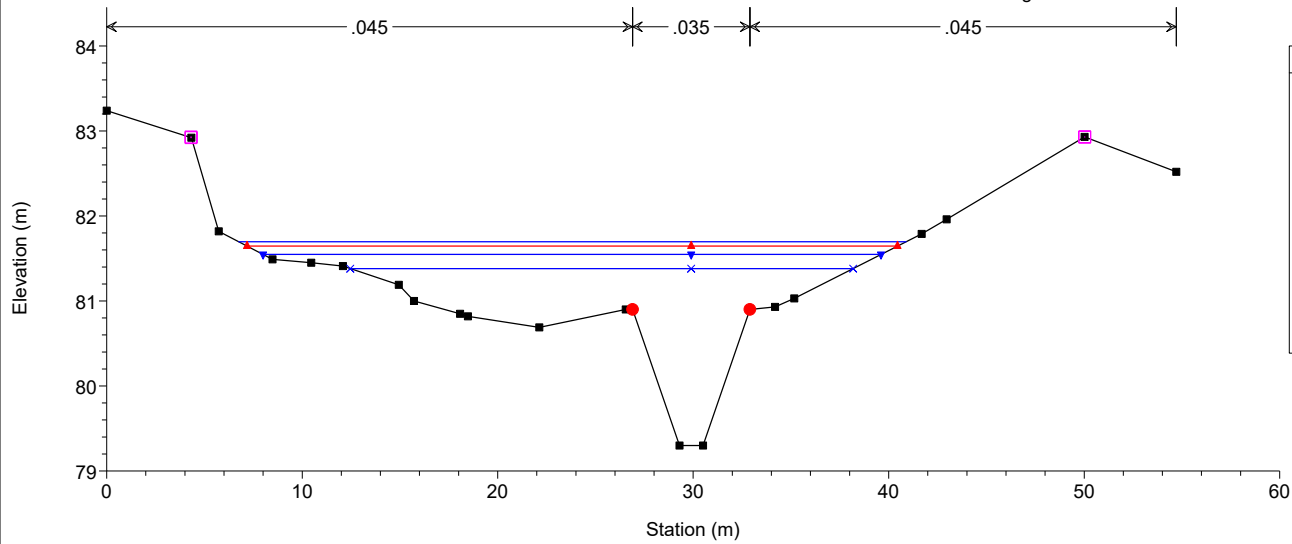
RS = 95 Risagomata monte briglia tarata



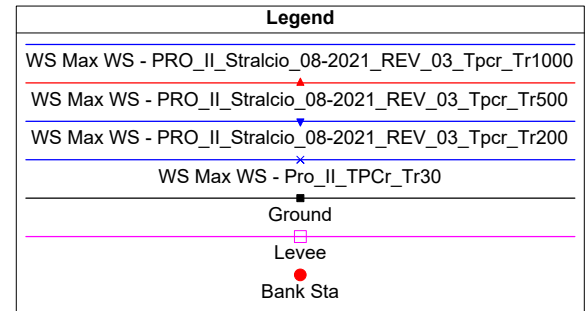
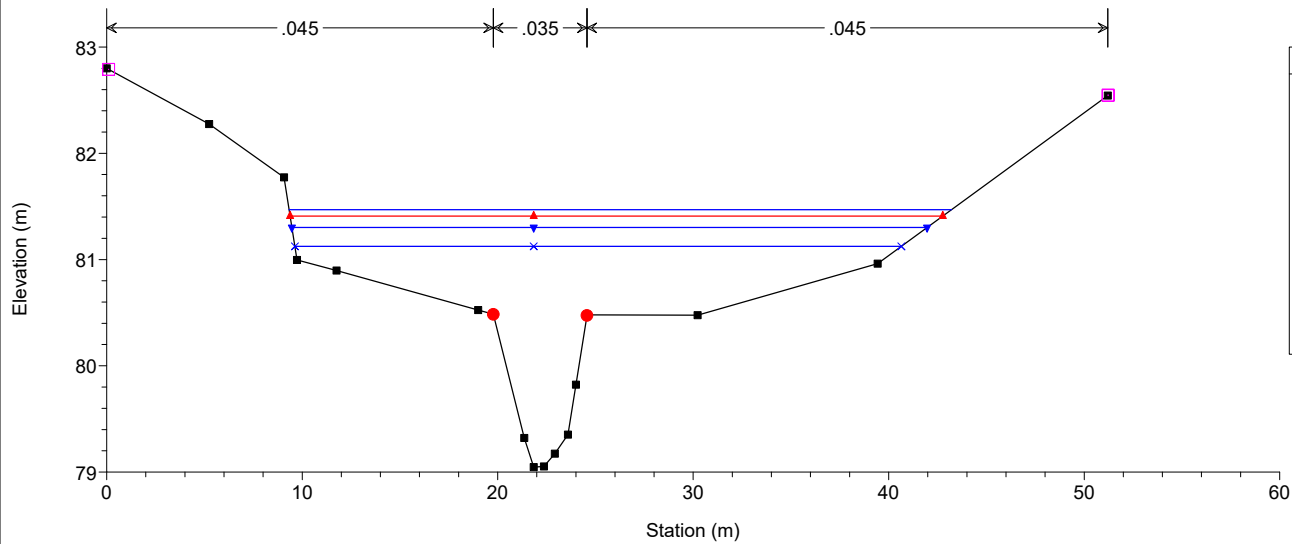
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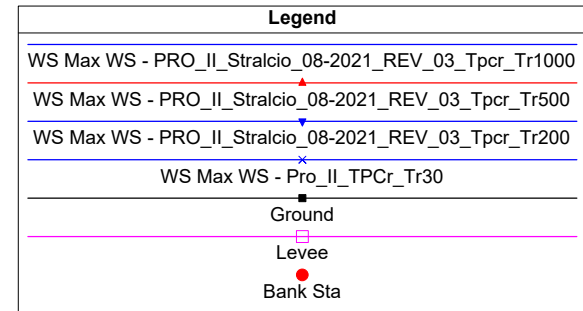
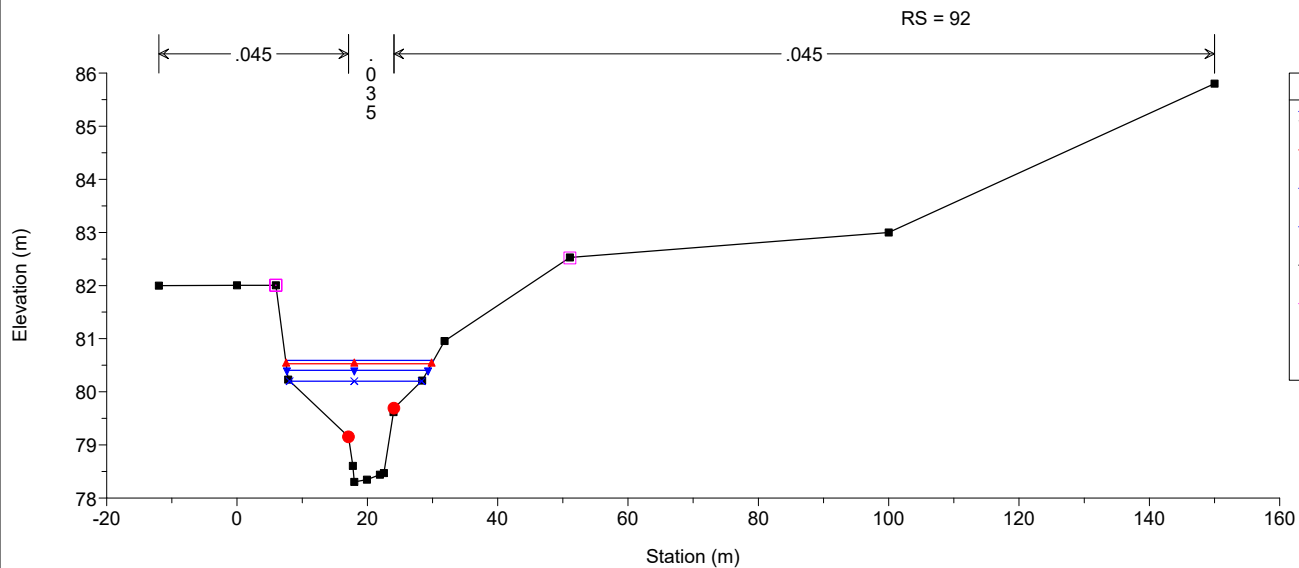
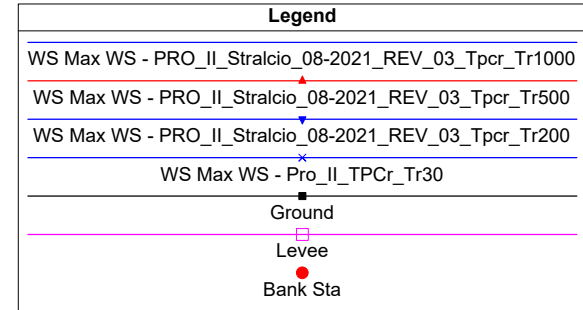
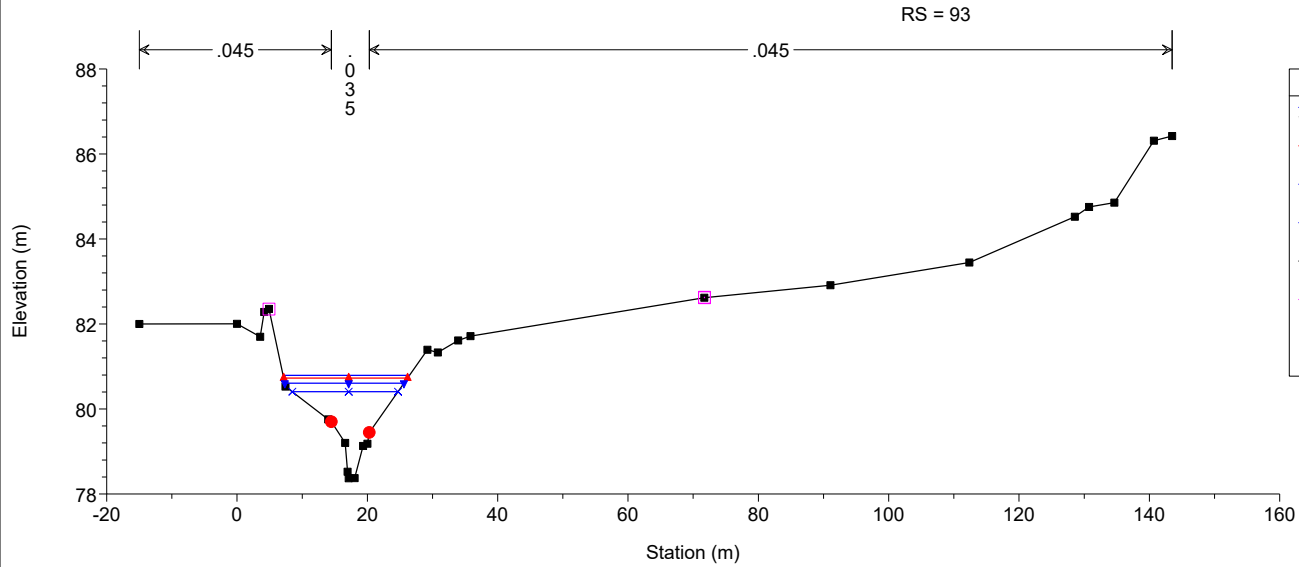


RS = 94.8 Ausiliaria valle briglia tarata

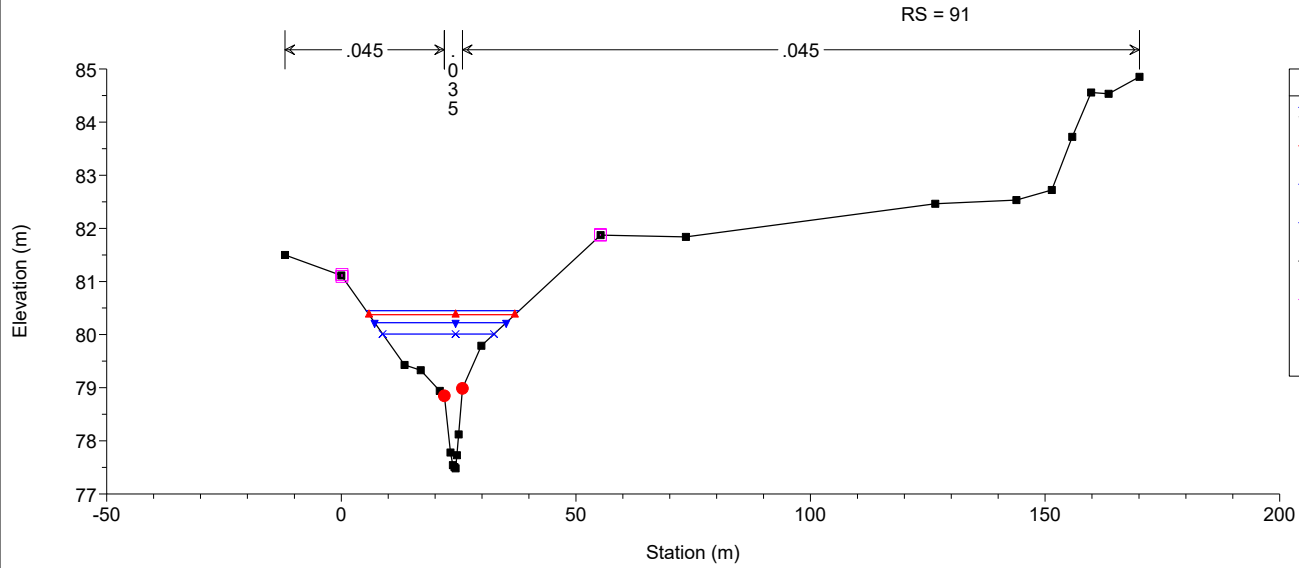


RS = 94



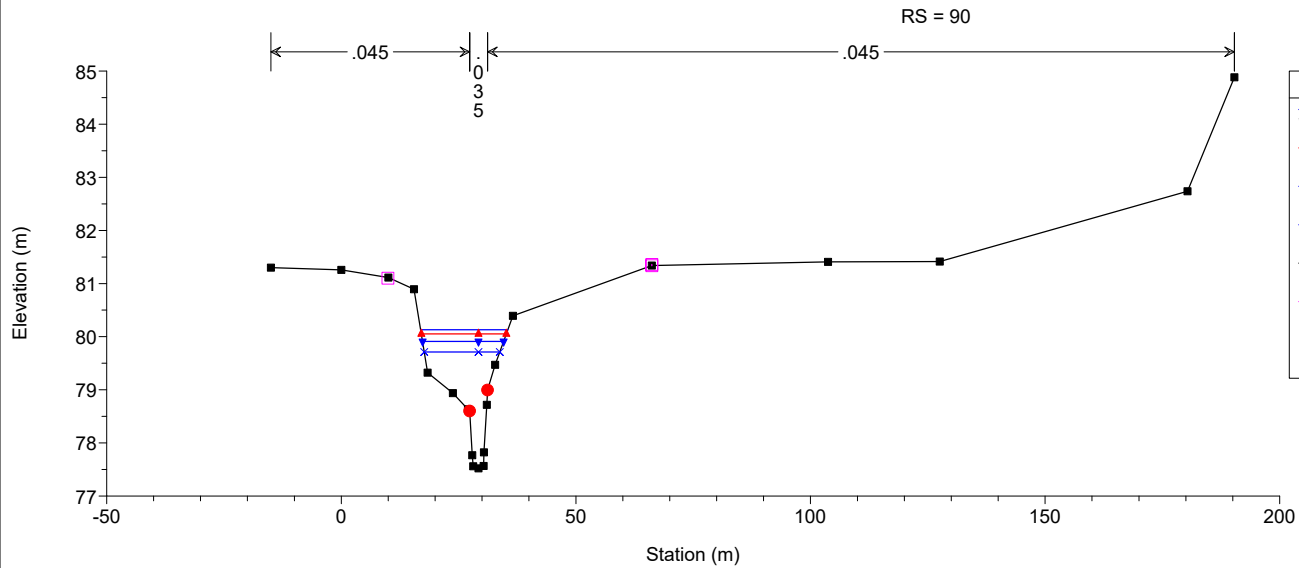


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

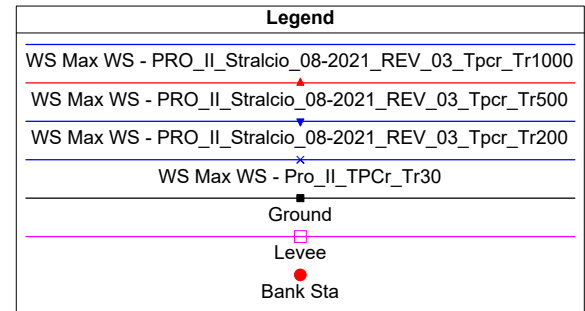
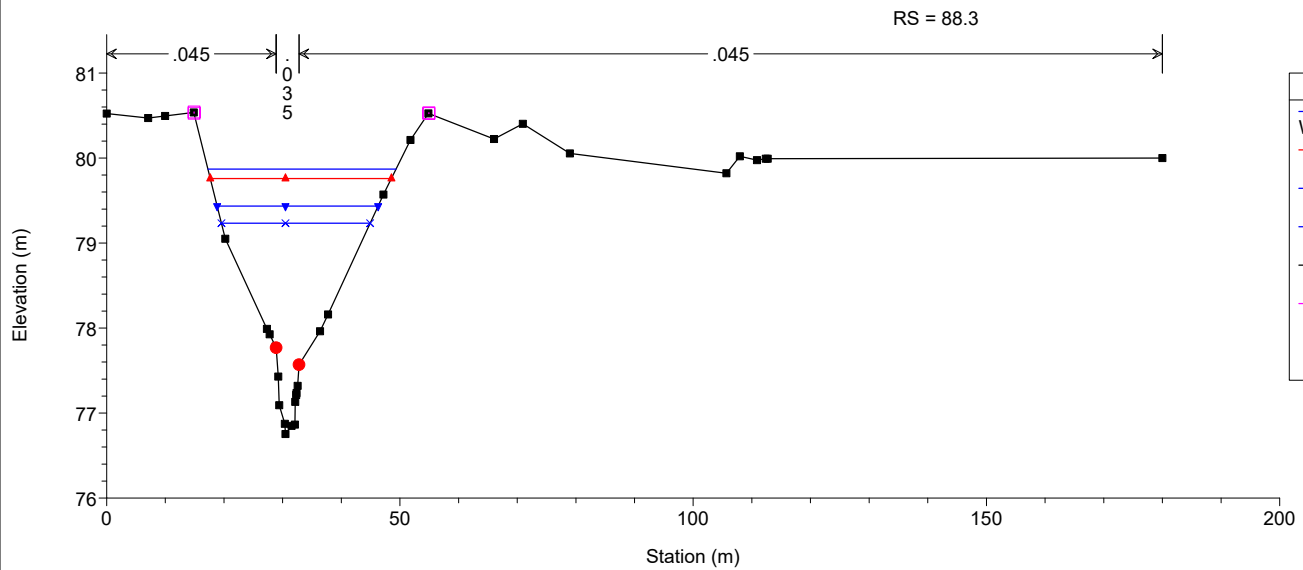
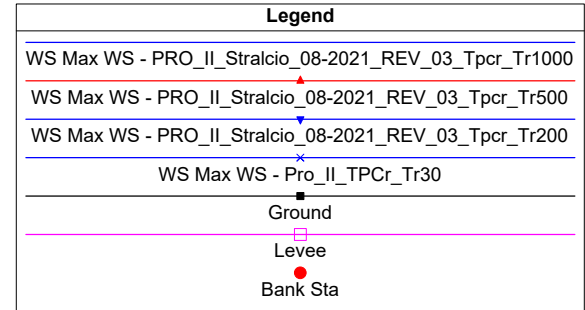
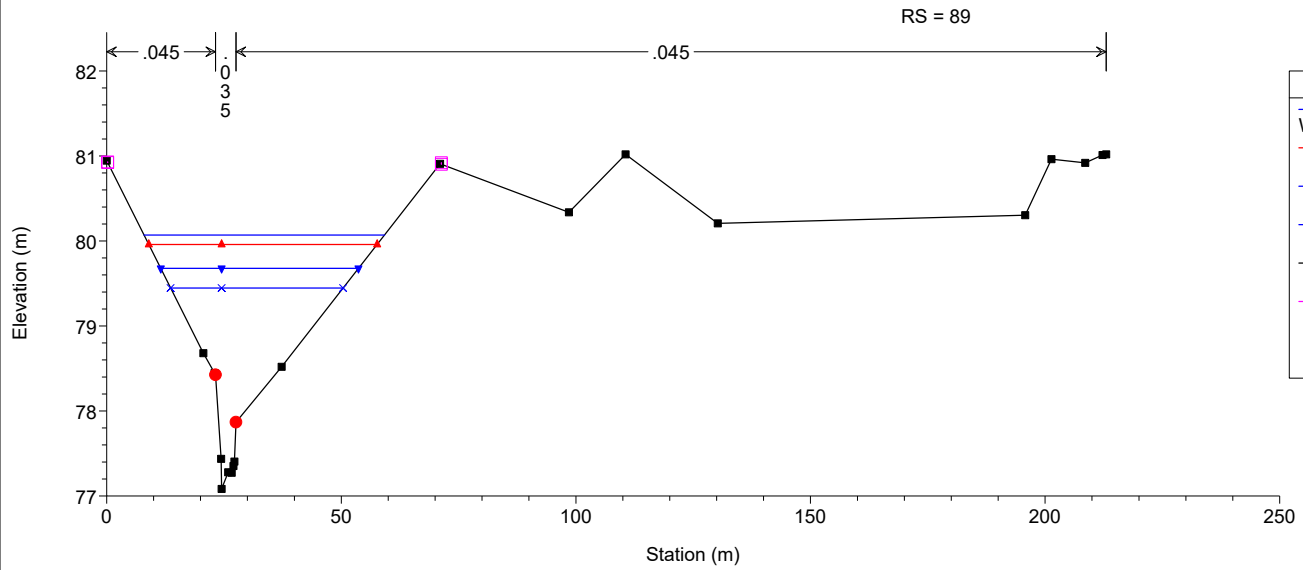


Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

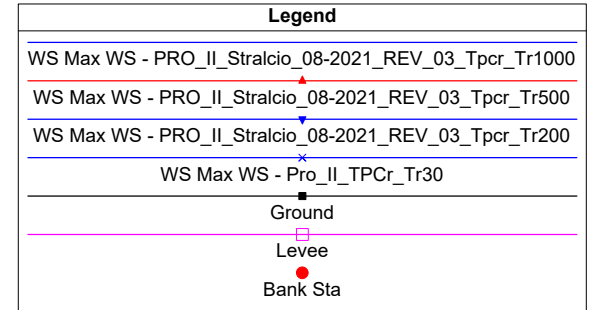
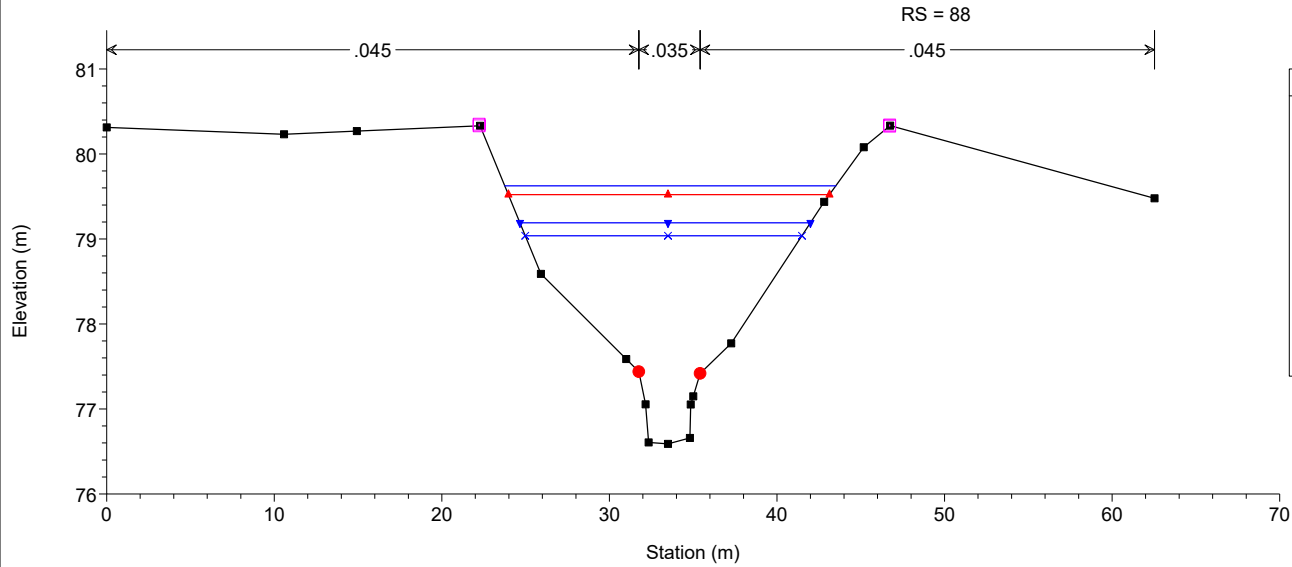
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



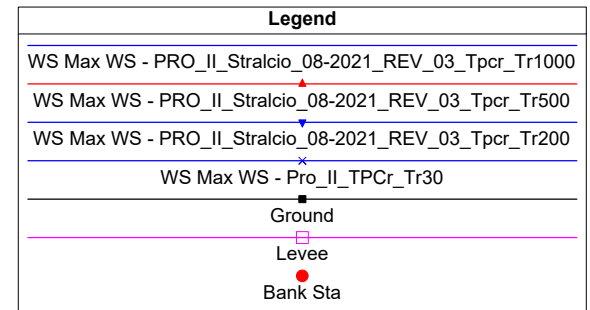
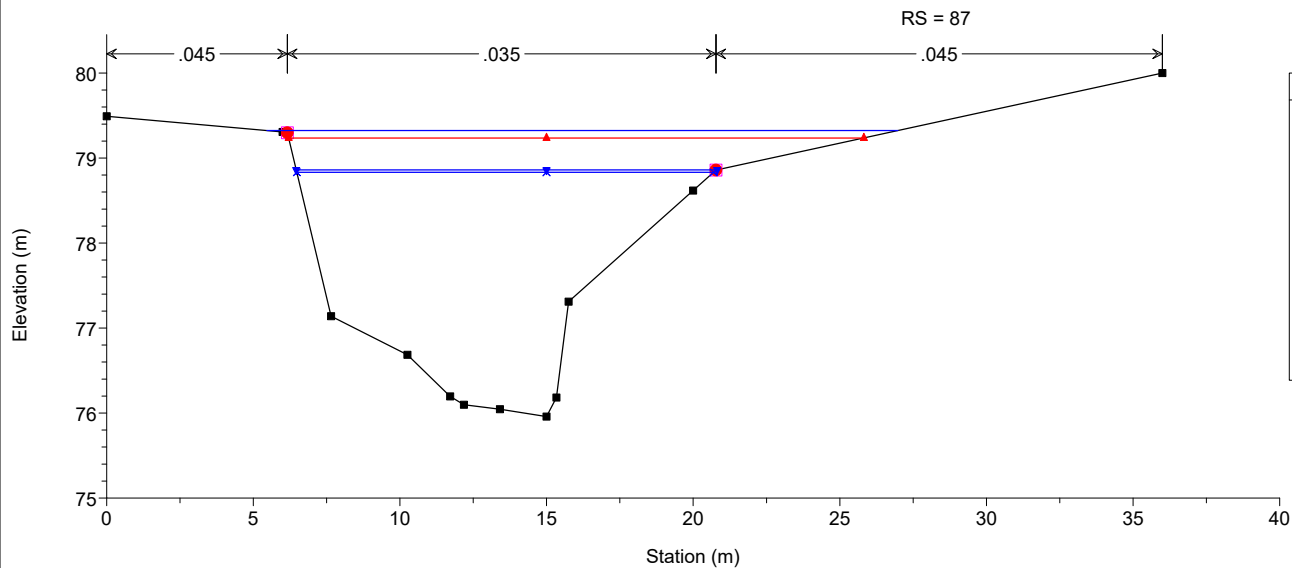
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●



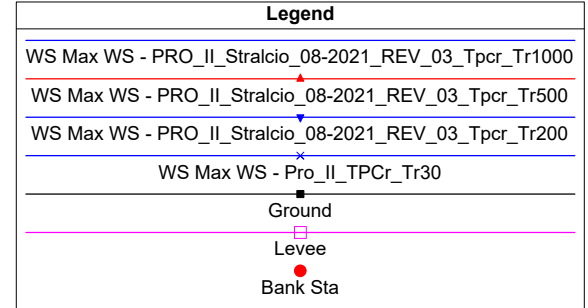
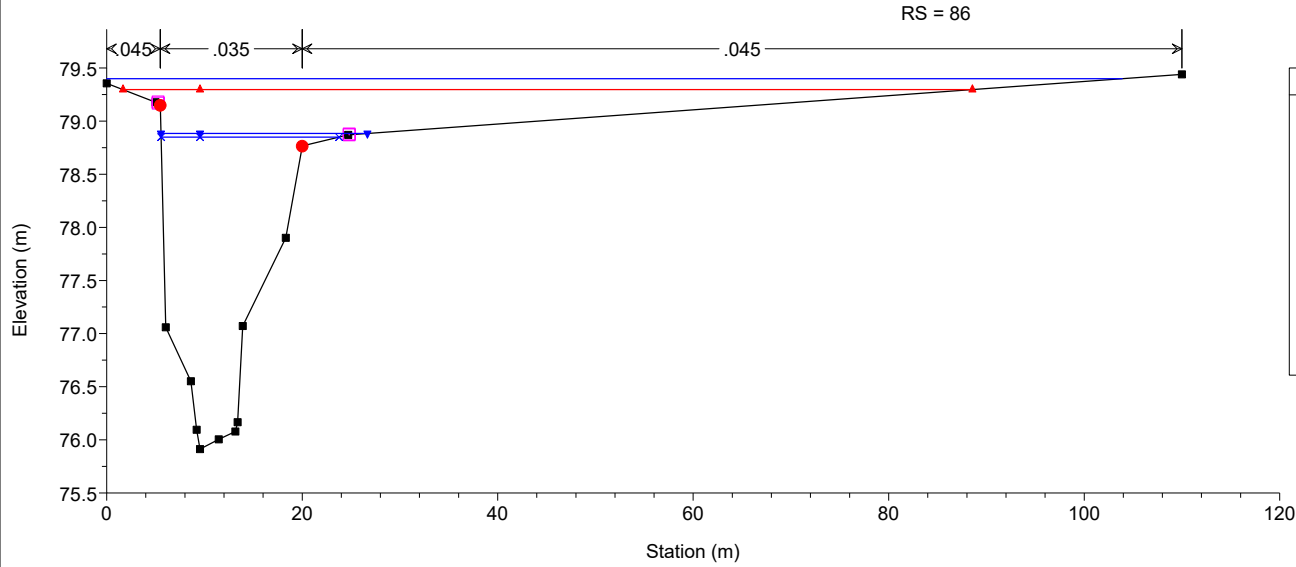
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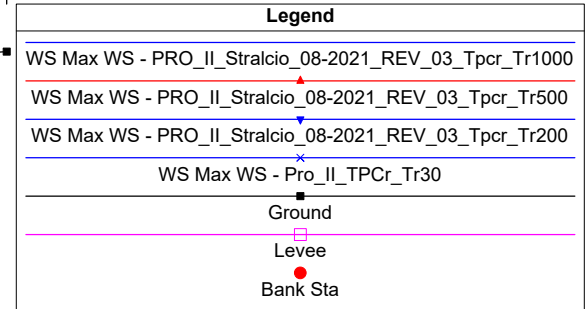
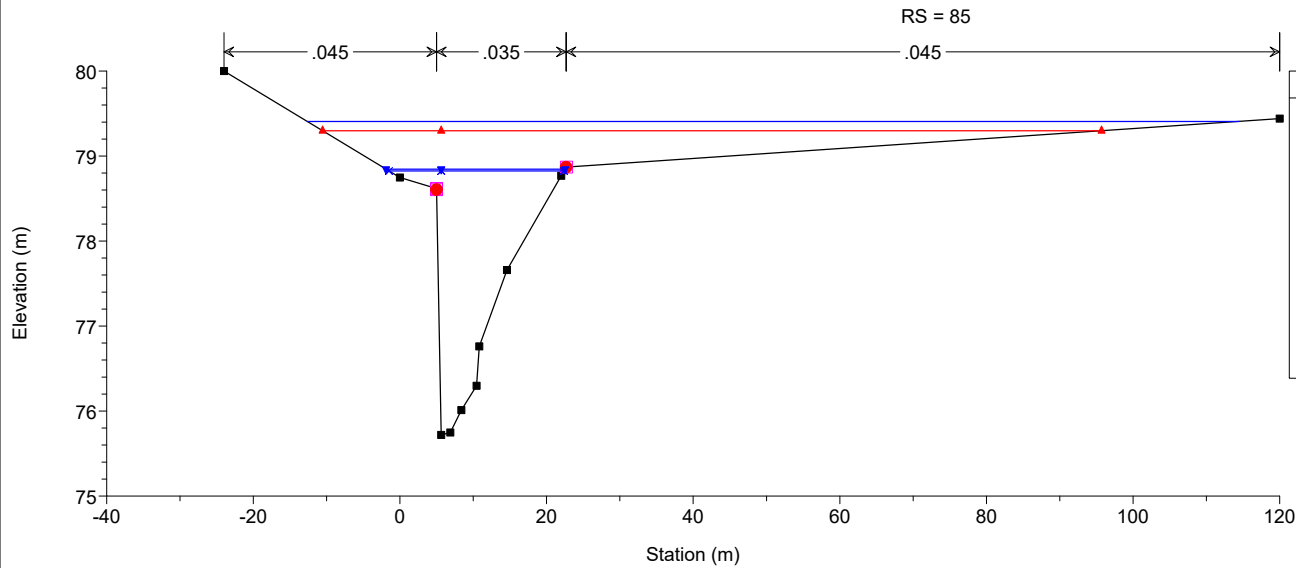
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



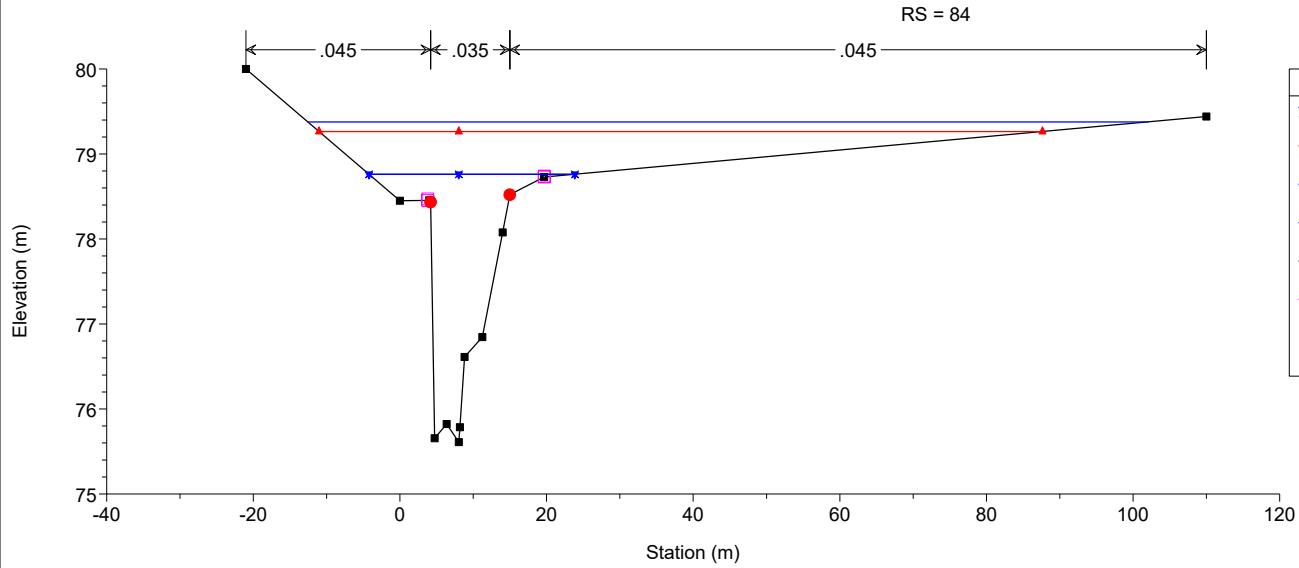
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RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

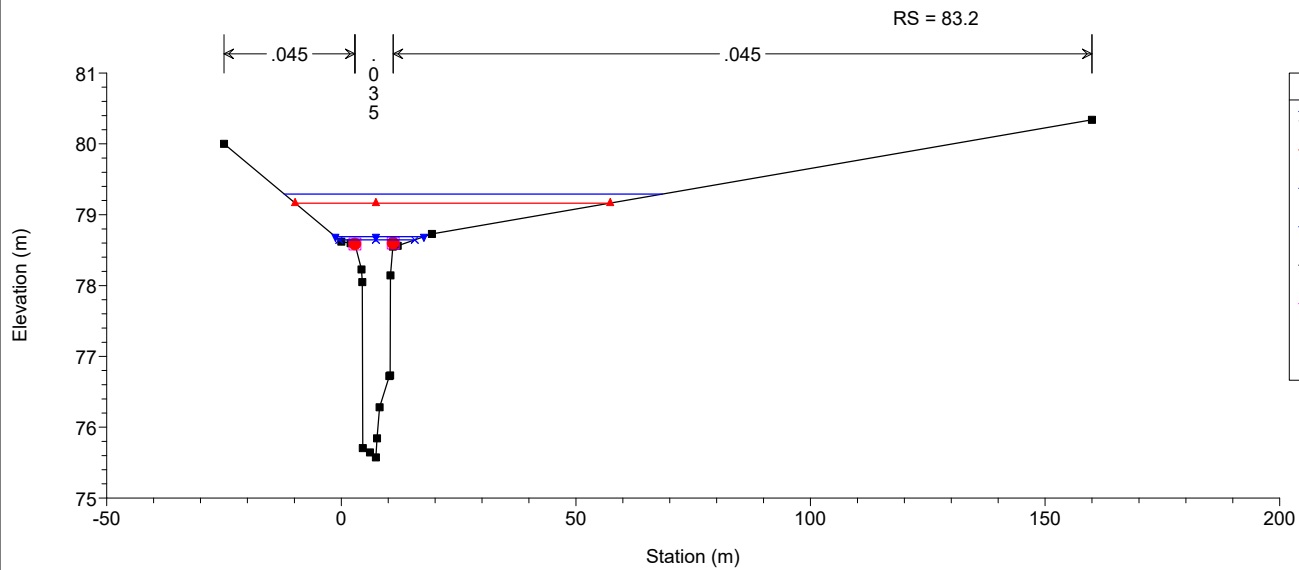


RioPietroso Plan: 1) PRO\_II\_Stalцио\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalцио\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalцио\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



Legend	
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr500	●
WS Max WS - Pro_II_TPCr_Tr30	×
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr200	▼
Ground	■
Levee	□
Bank Sta	●

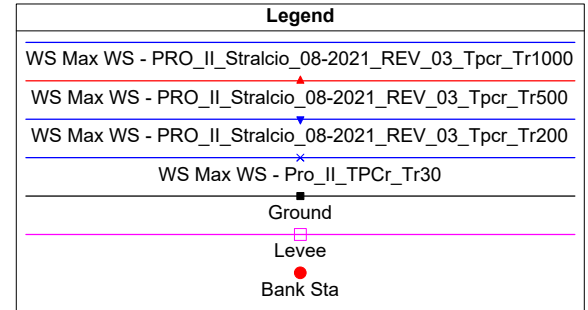
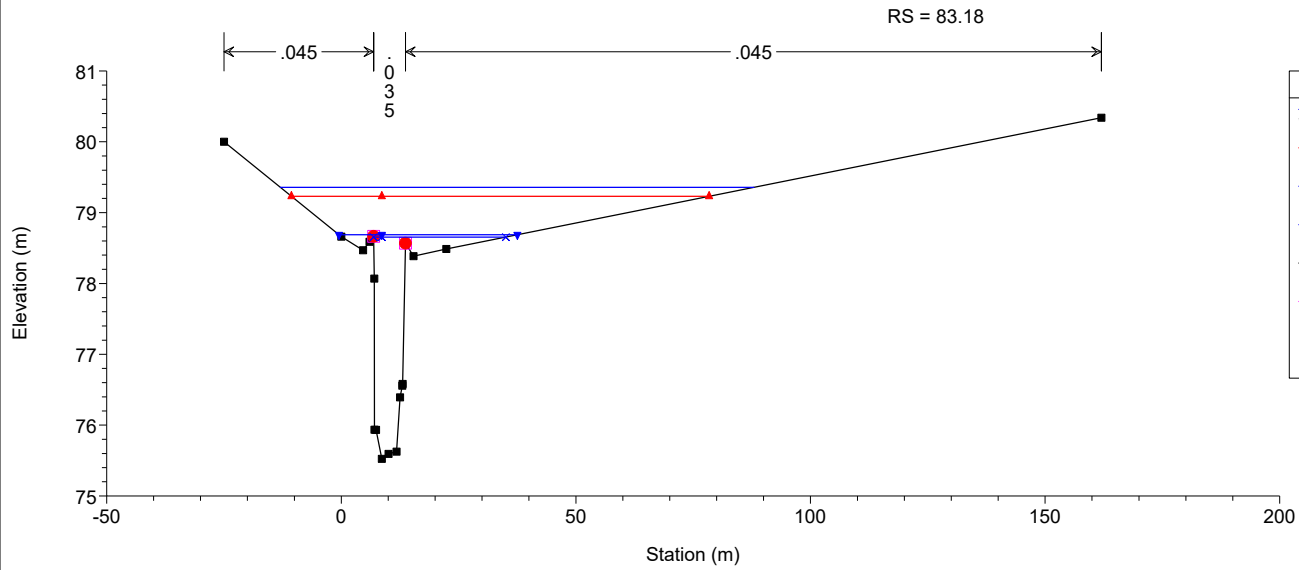
RioPietroso Plan: 1) PRO\_II\_Stalцио\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalцио\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalцио\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



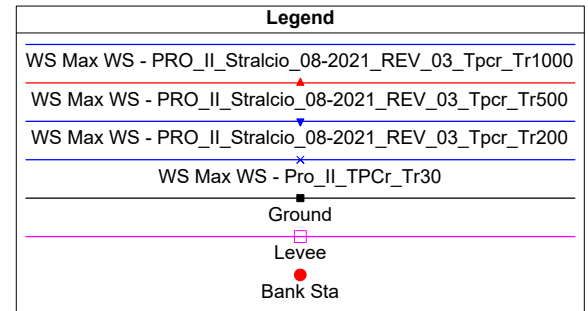
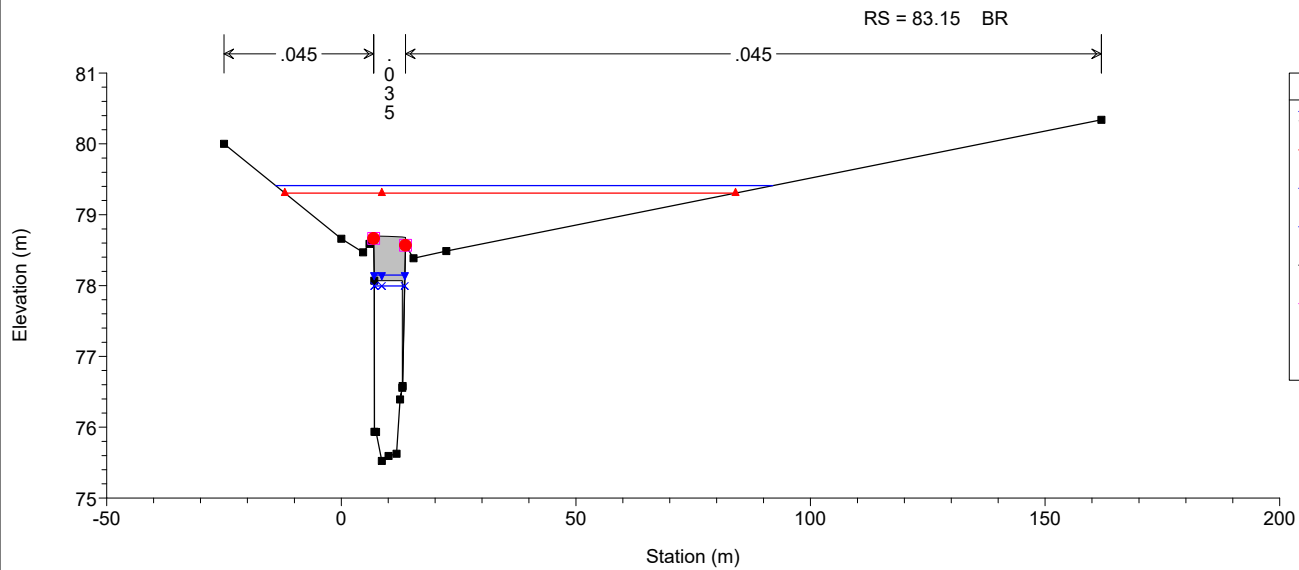
Legend	
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WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr500	●
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr200	▼
WS Max WS - Pro_II_TPCr_Tr30	×
Ground	■
Levee	□
Bank Sta	●



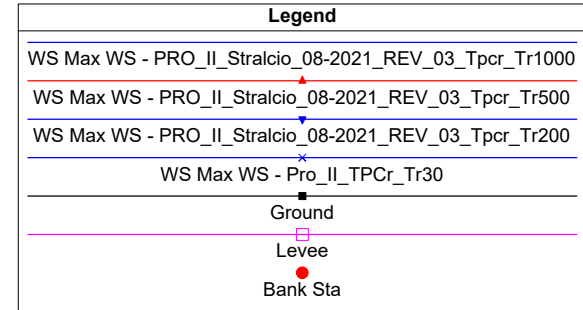
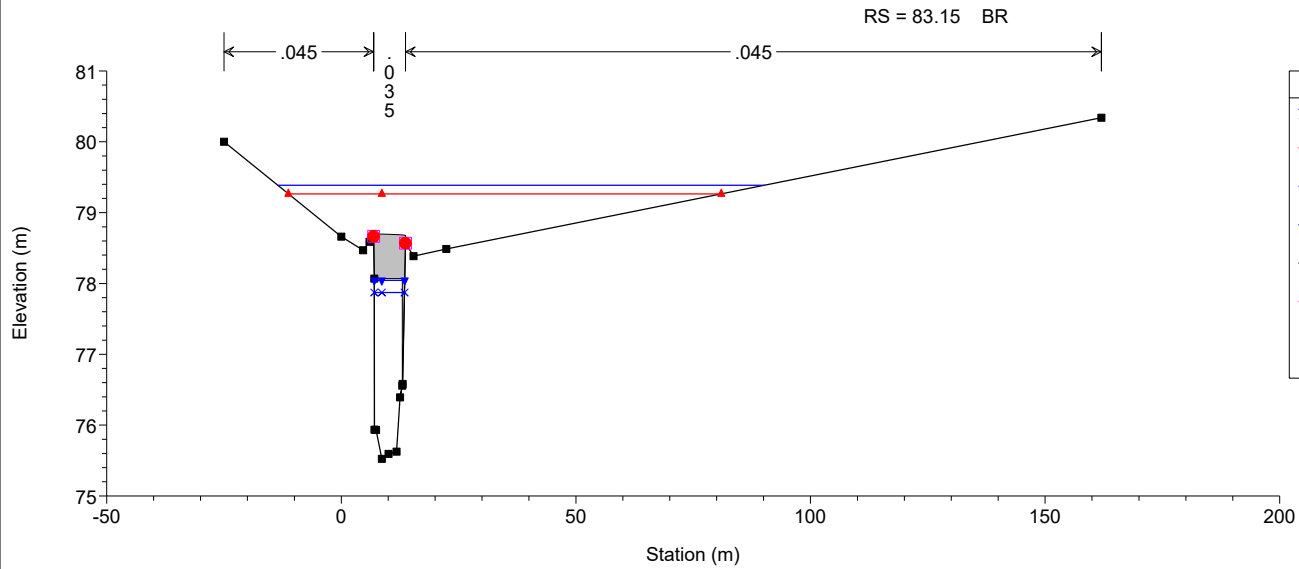
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



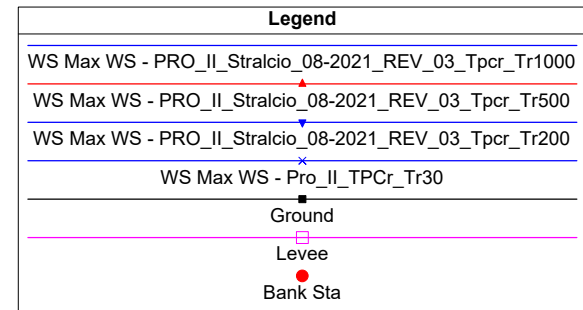
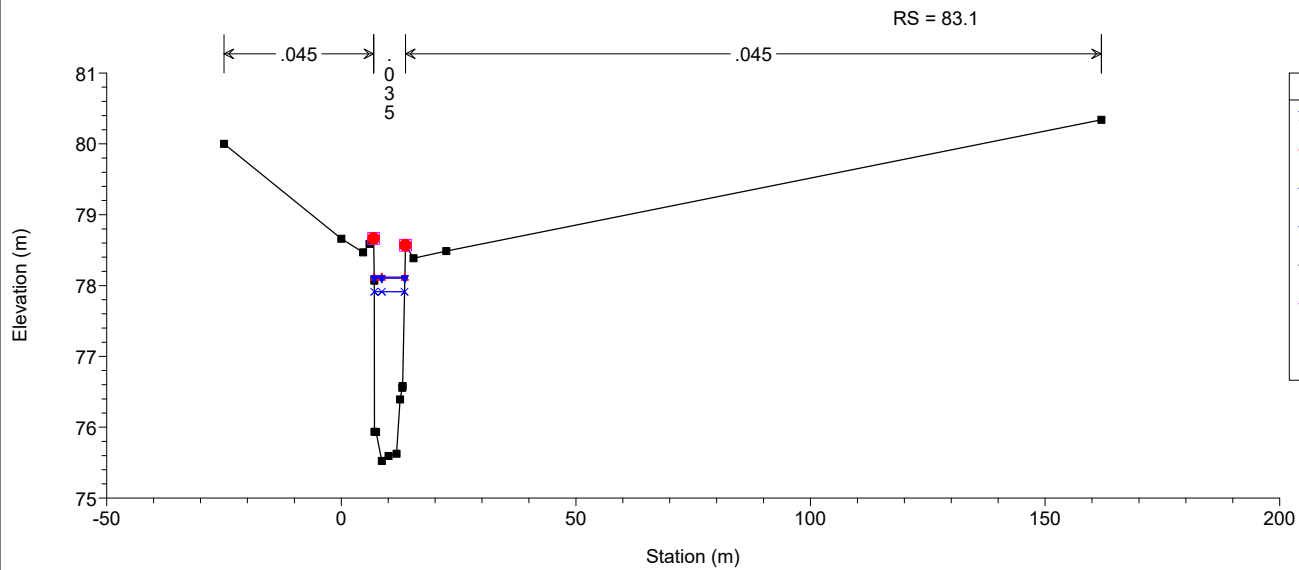
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



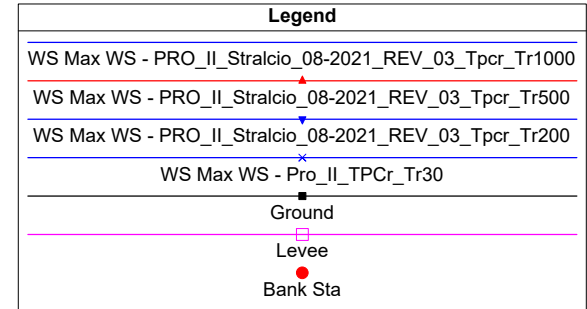
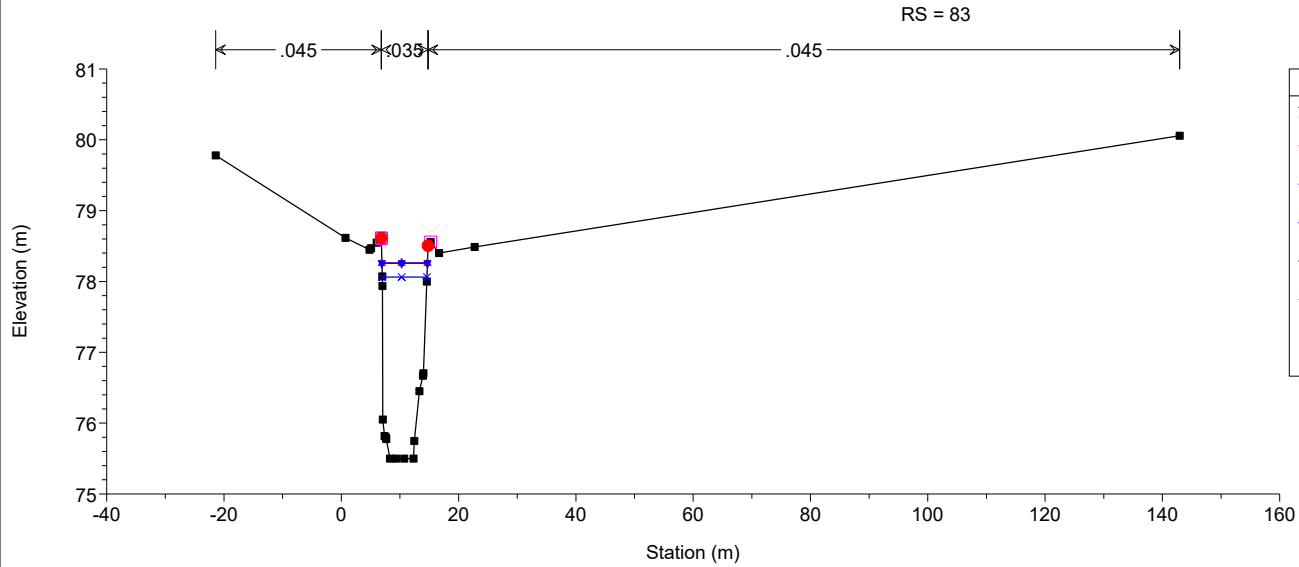
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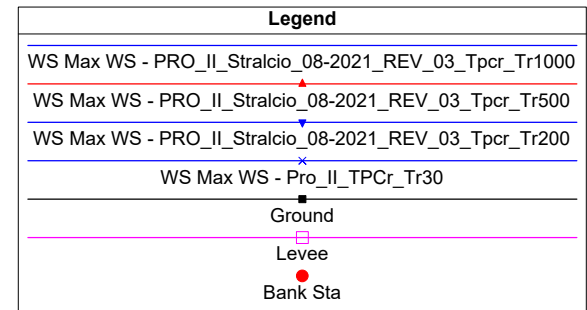
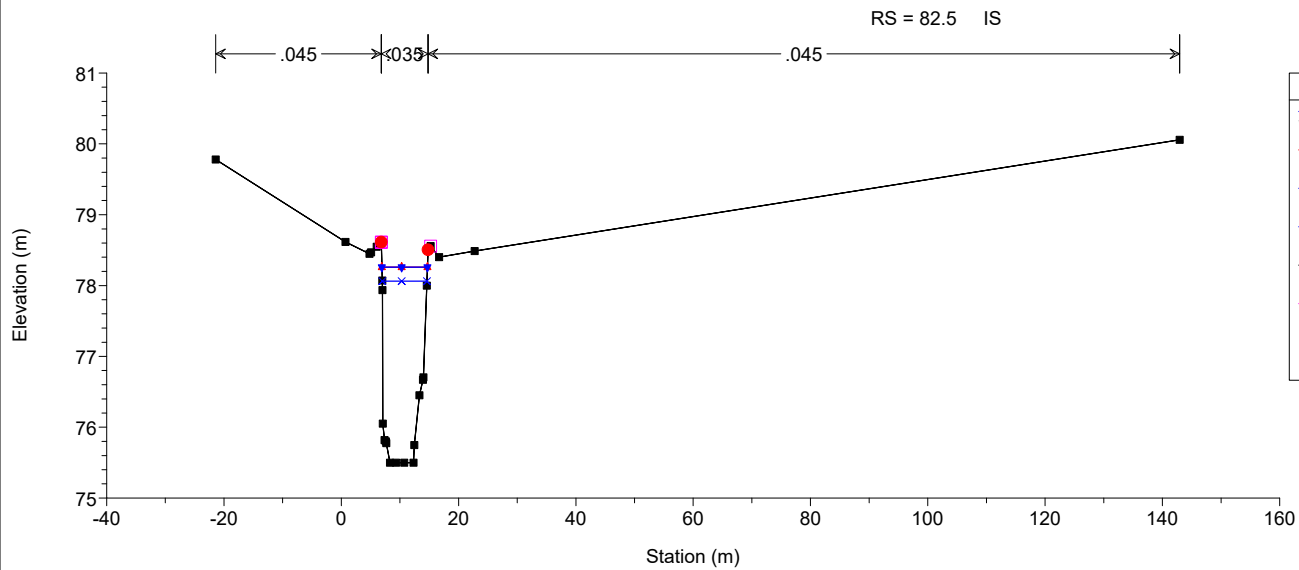
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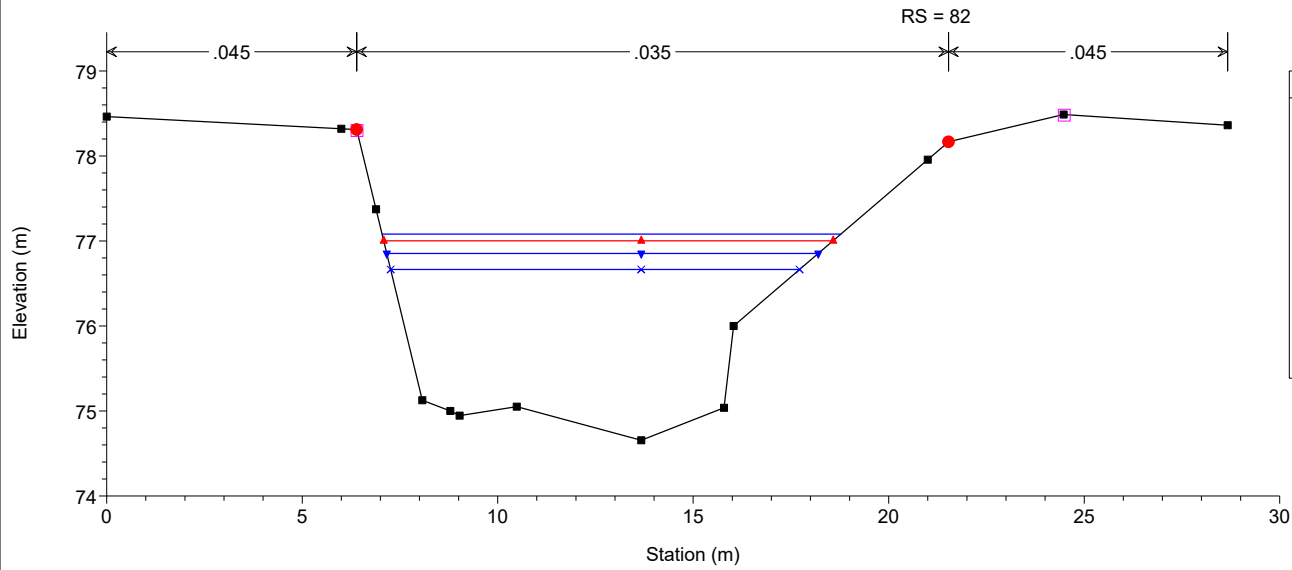
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RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

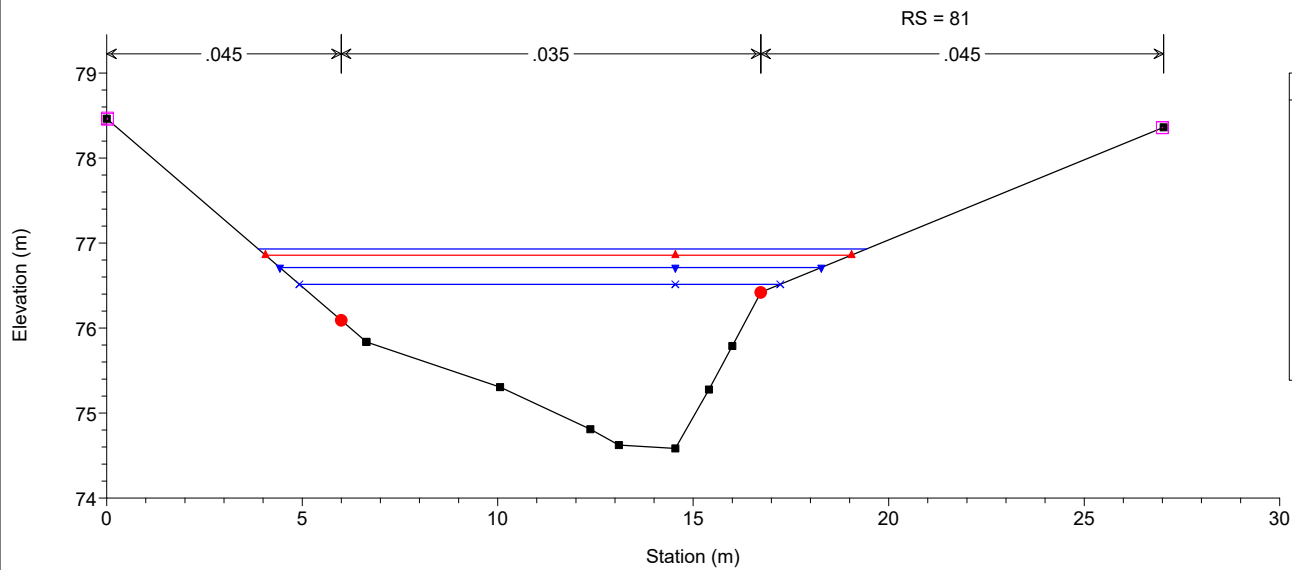


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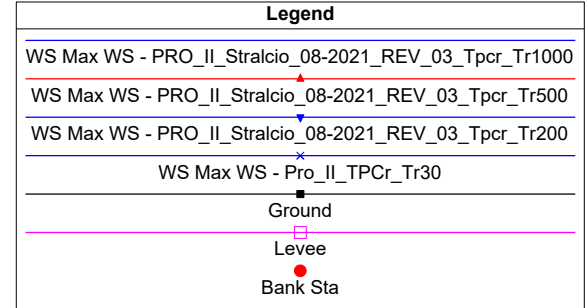
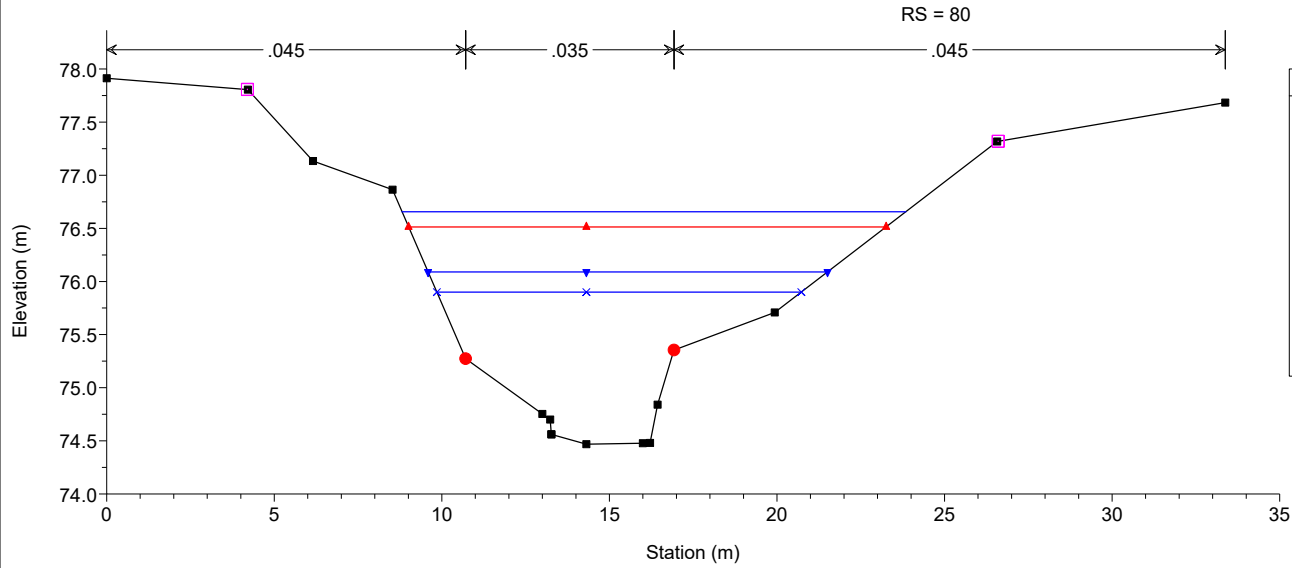
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WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	—
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

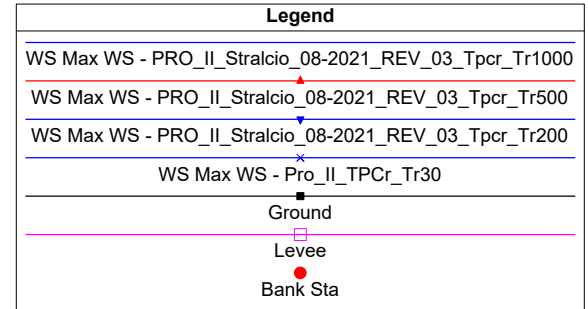
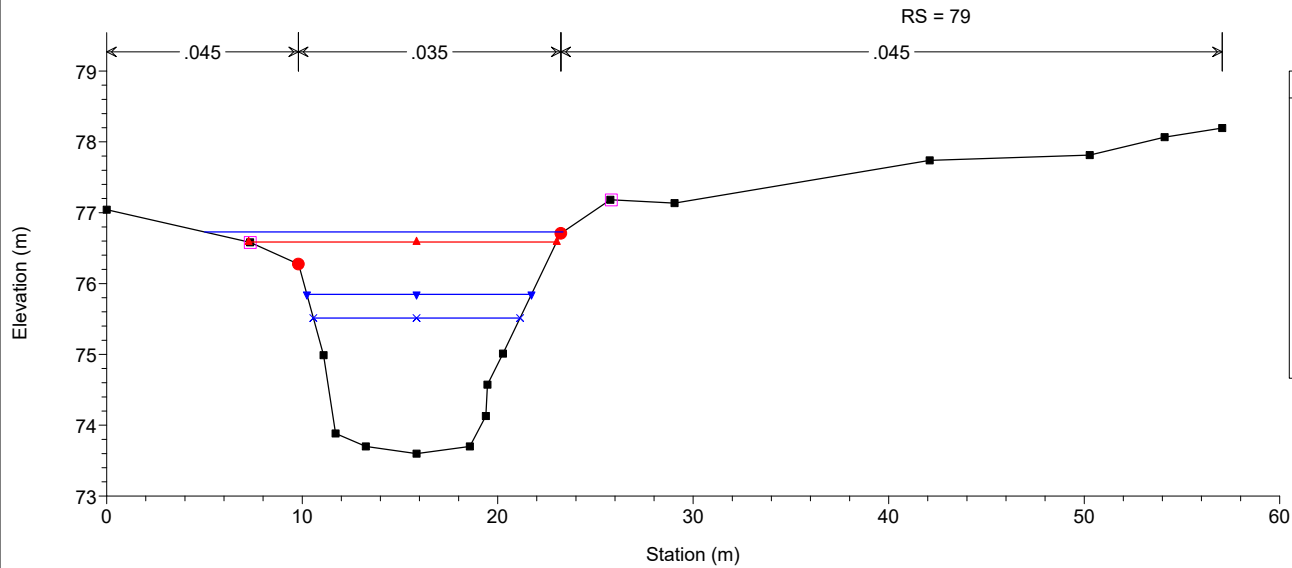


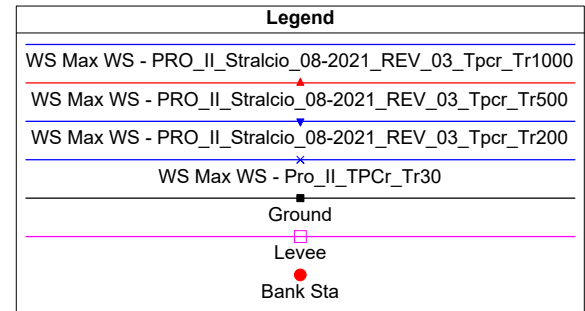
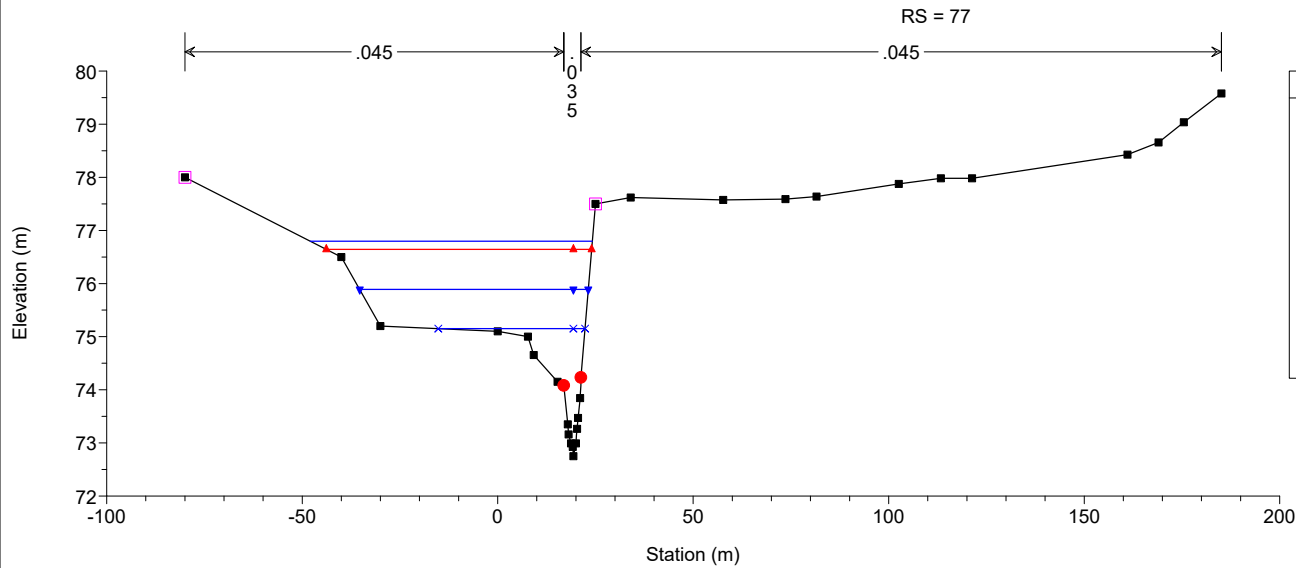
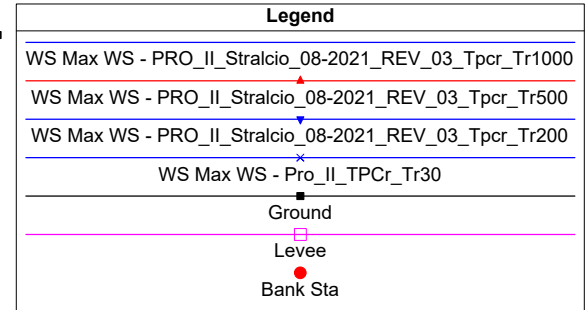
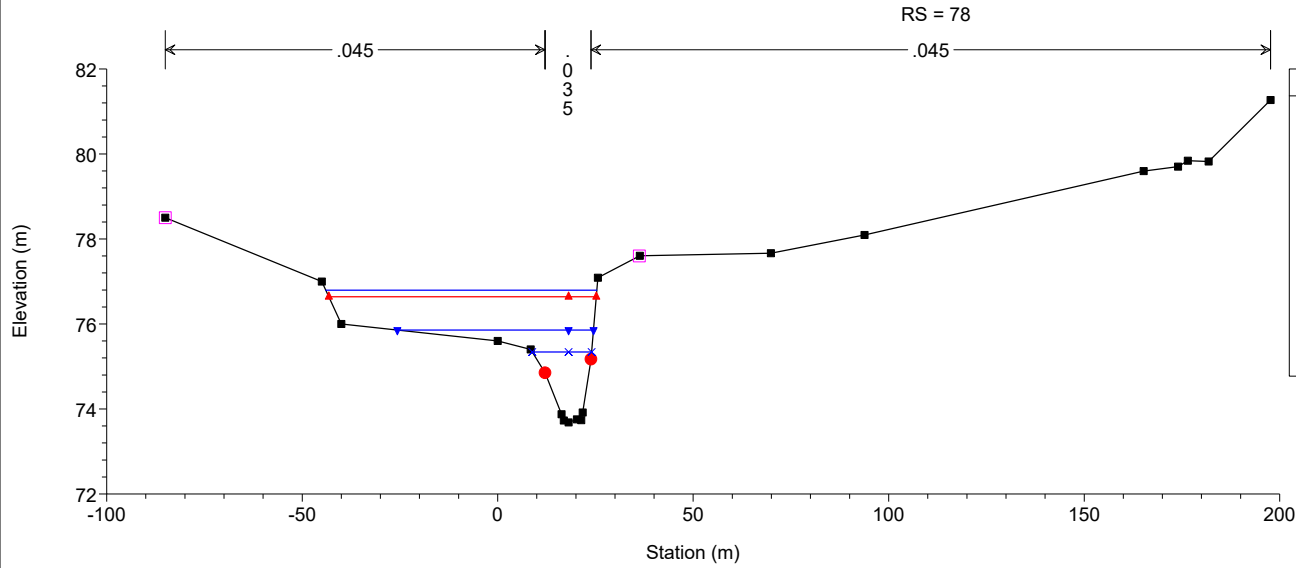
Legend	
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WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	—
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

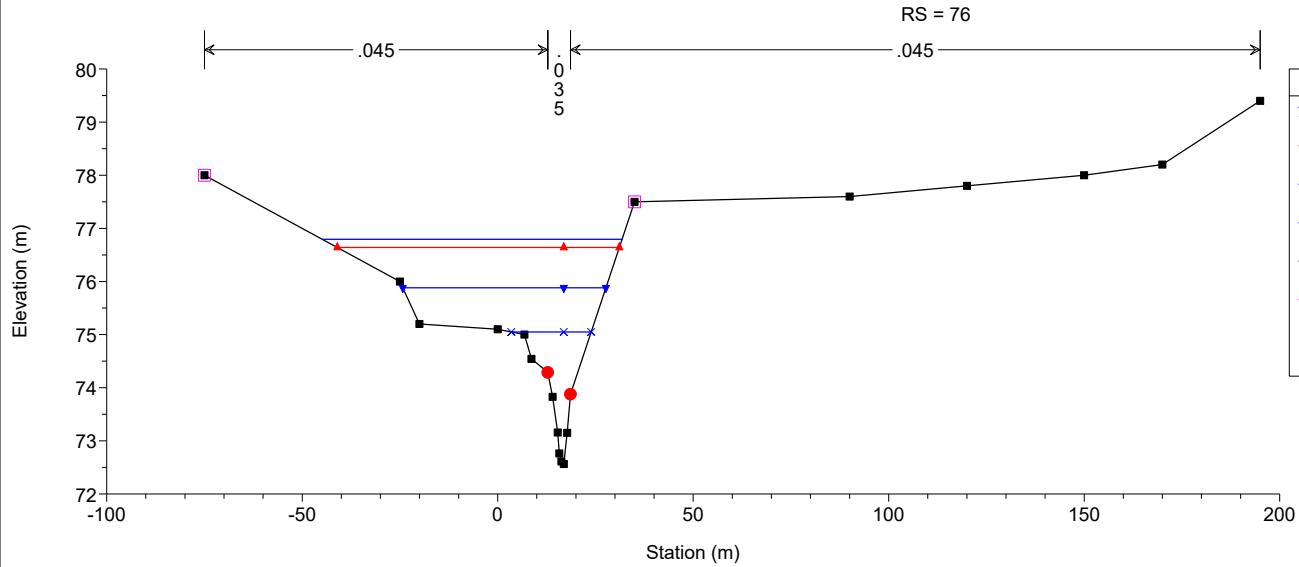


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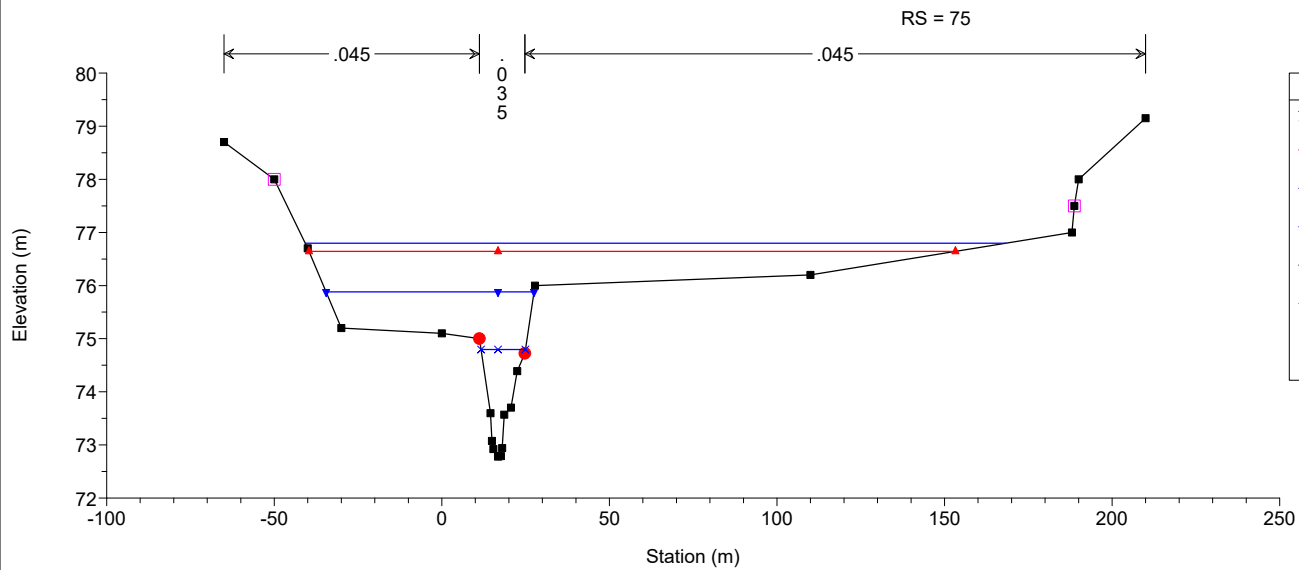


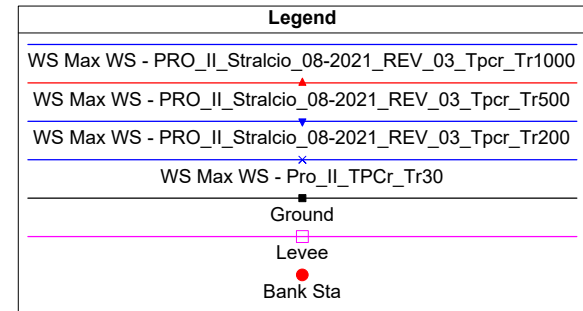
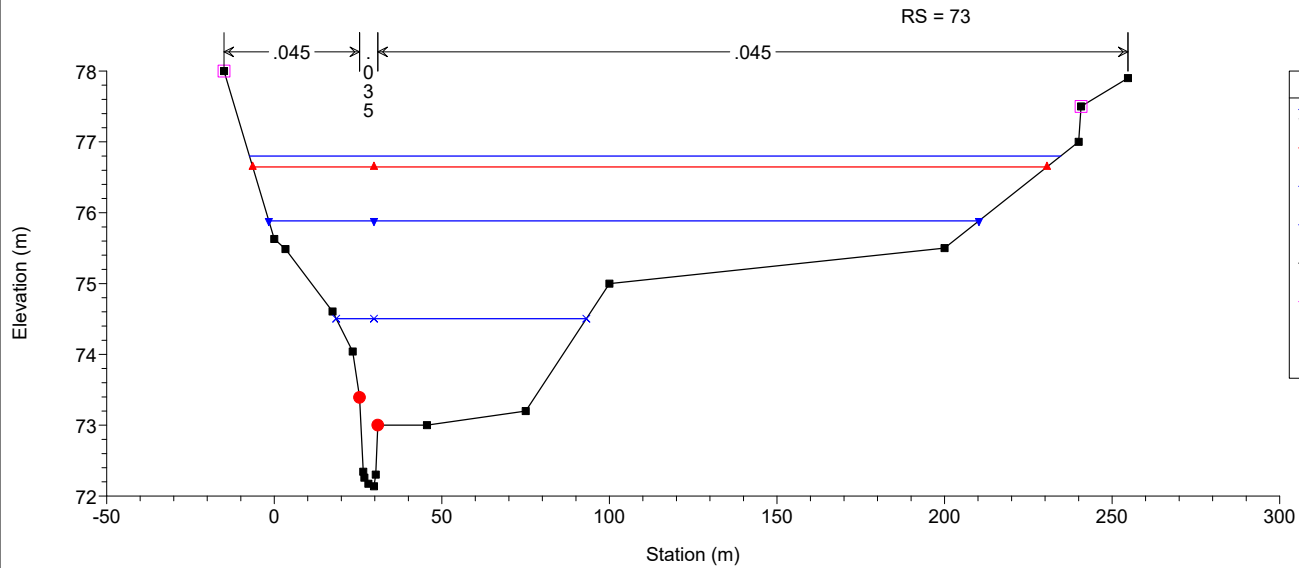
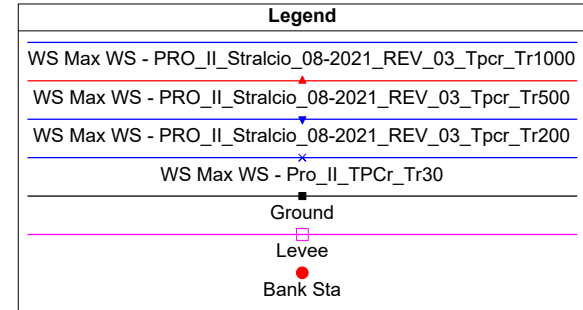
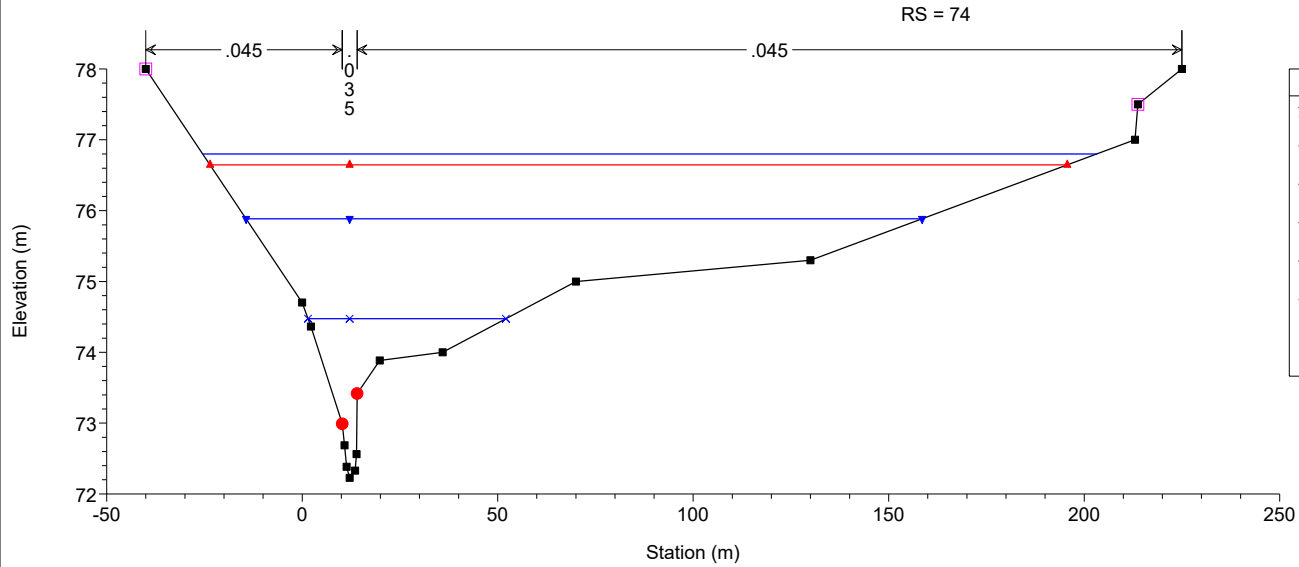


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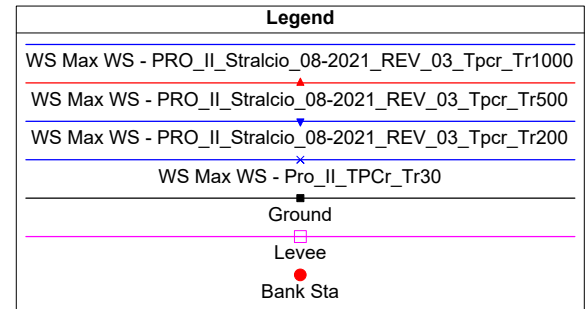
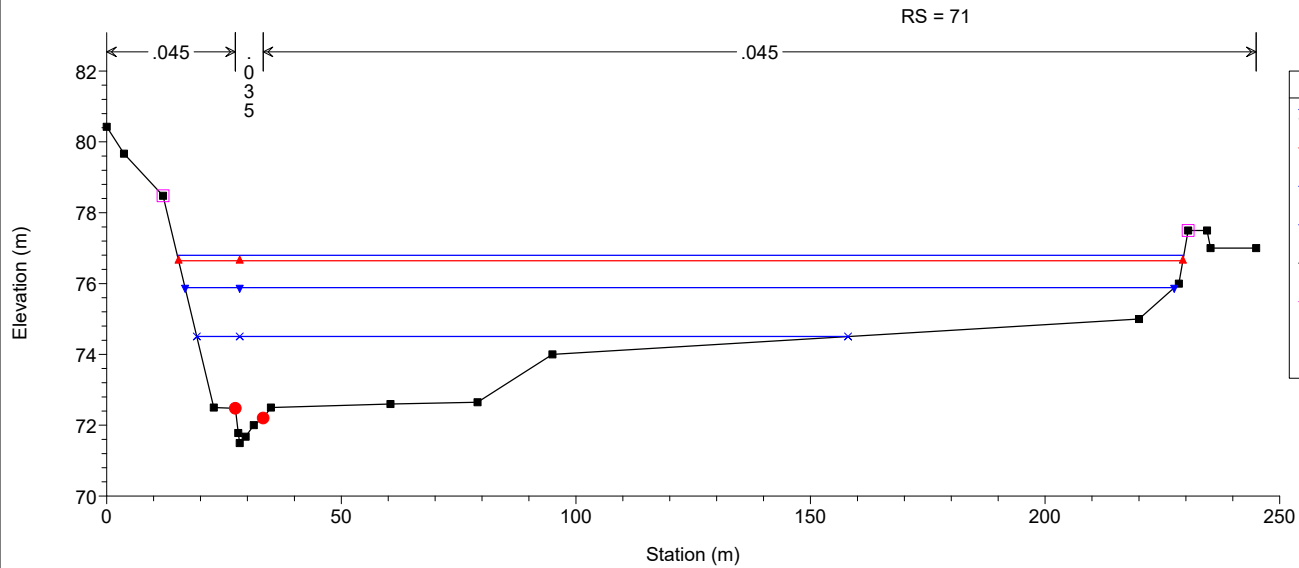
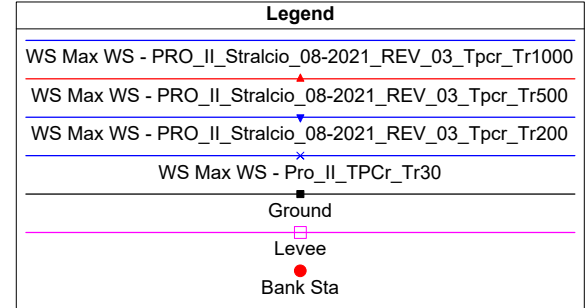
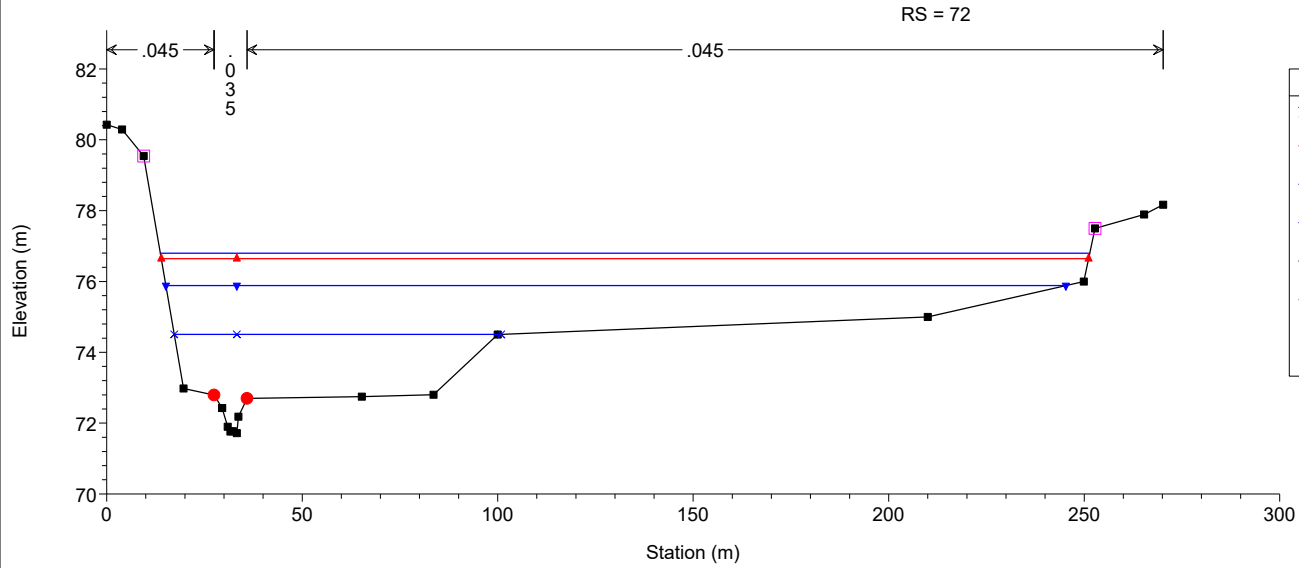


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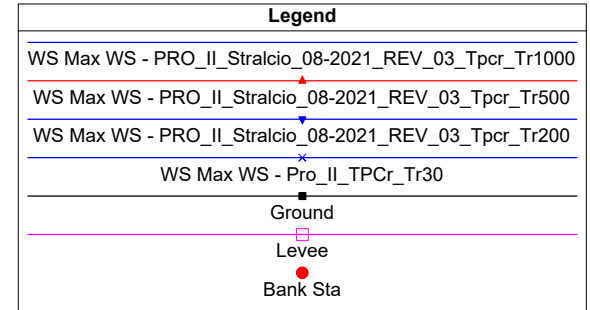
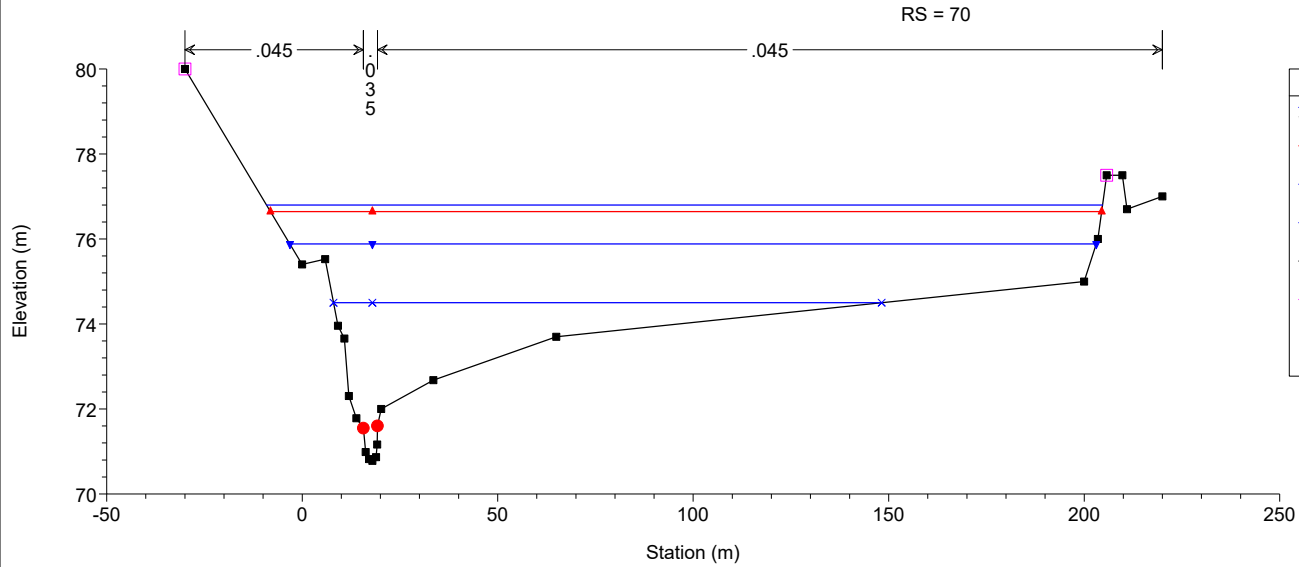




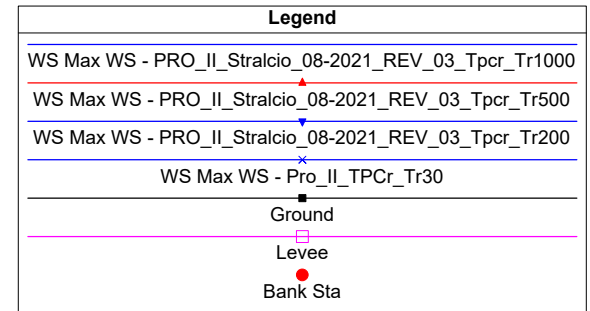
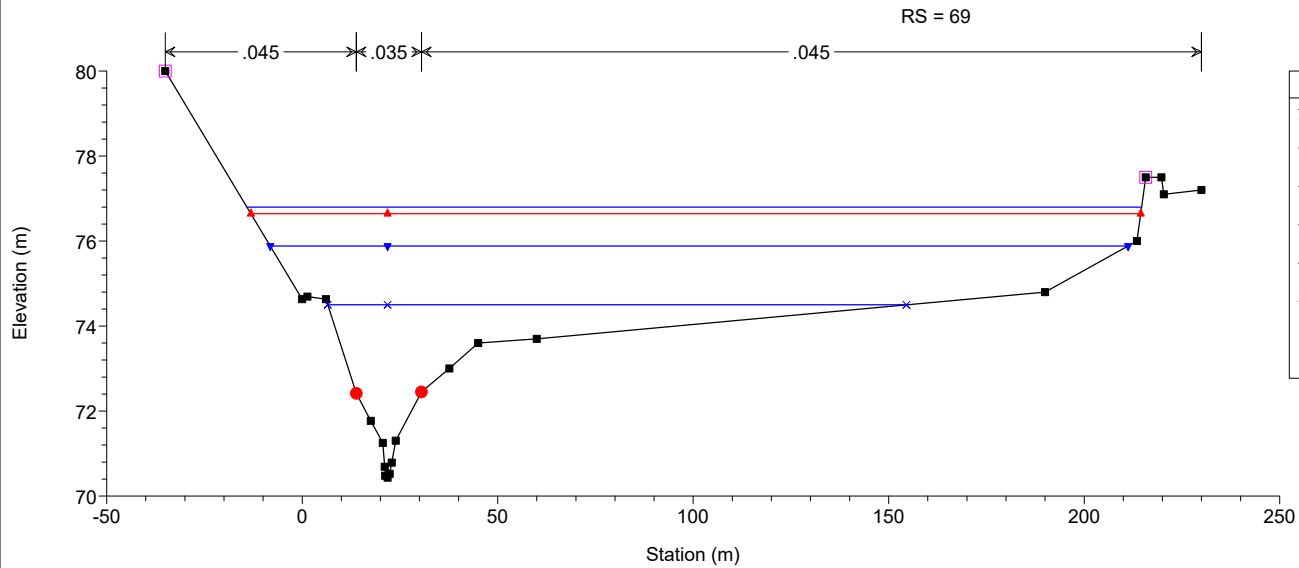




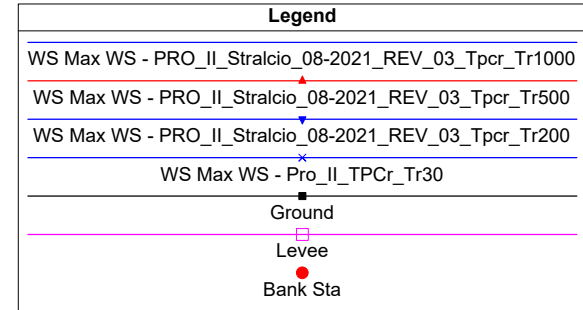
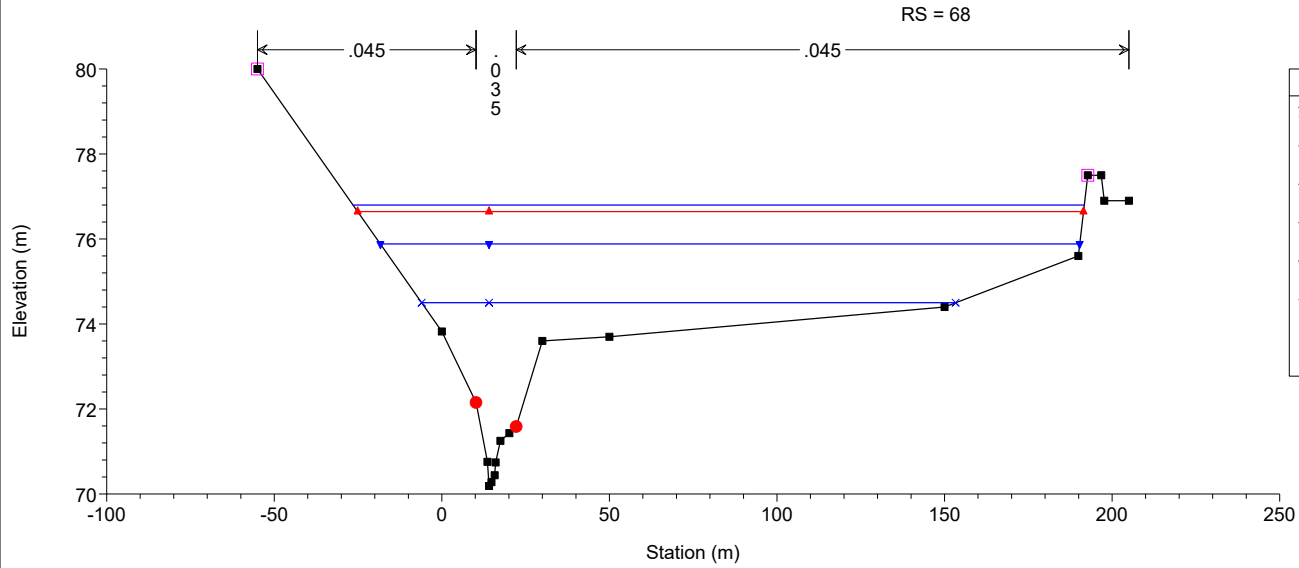
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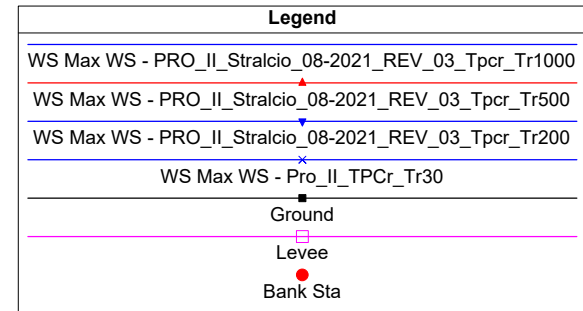
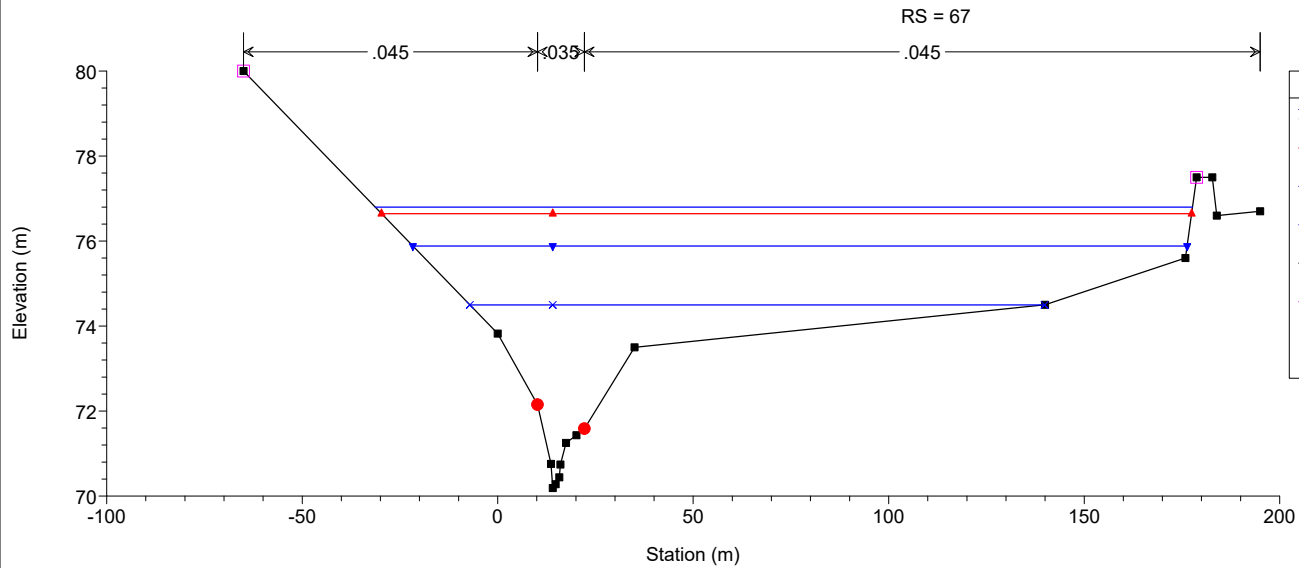
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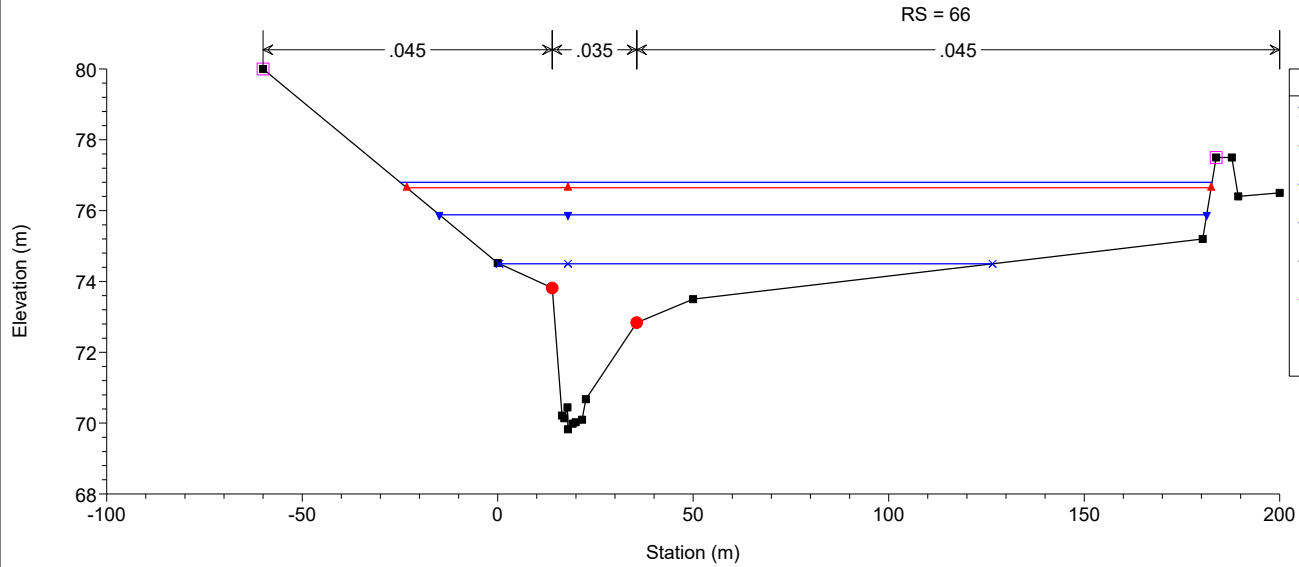
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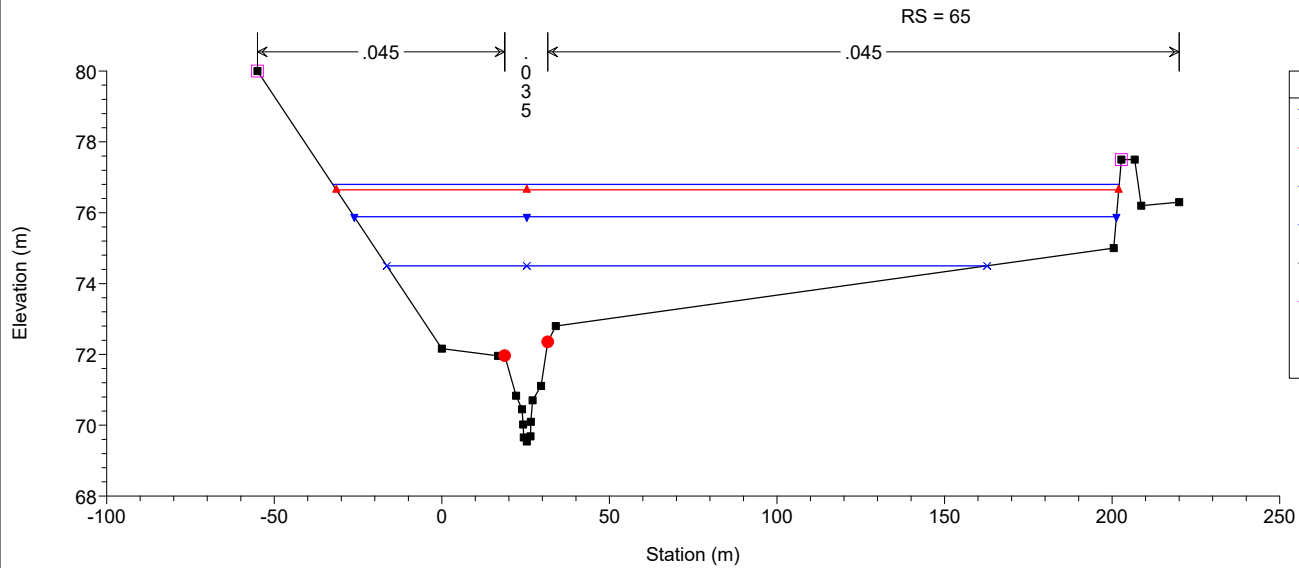
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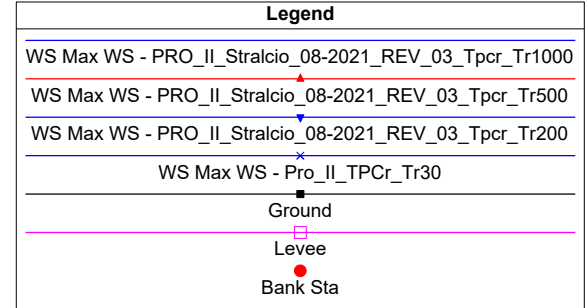
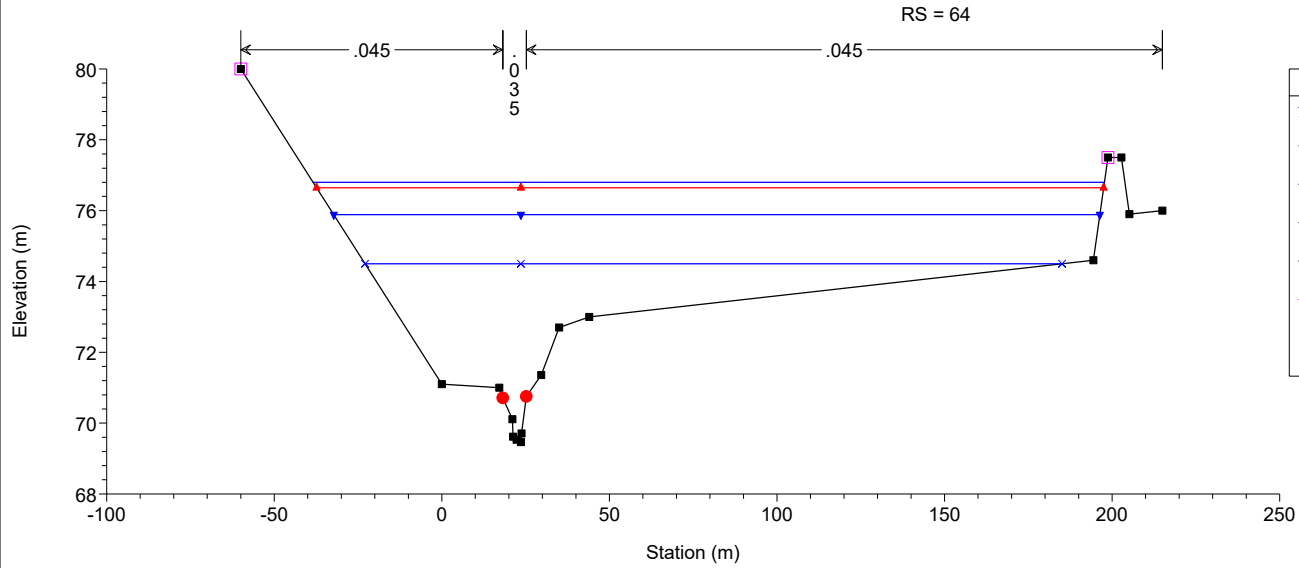
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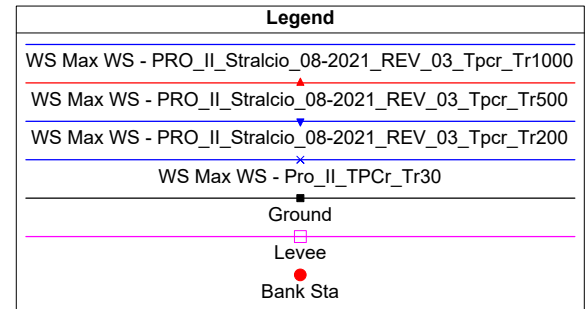
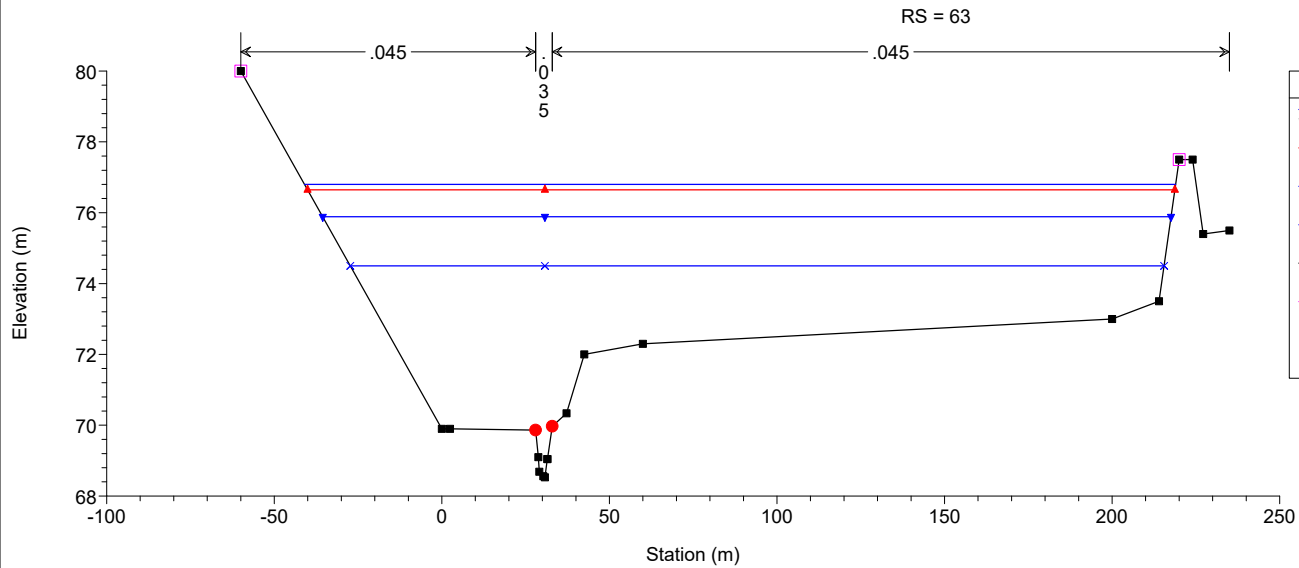
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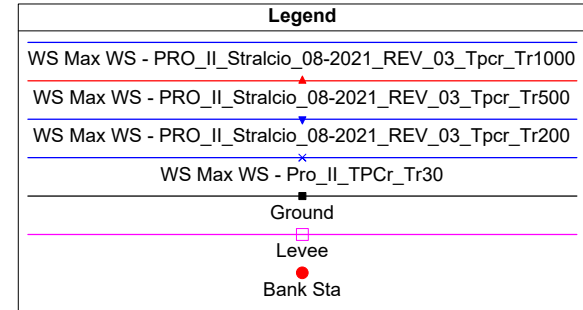
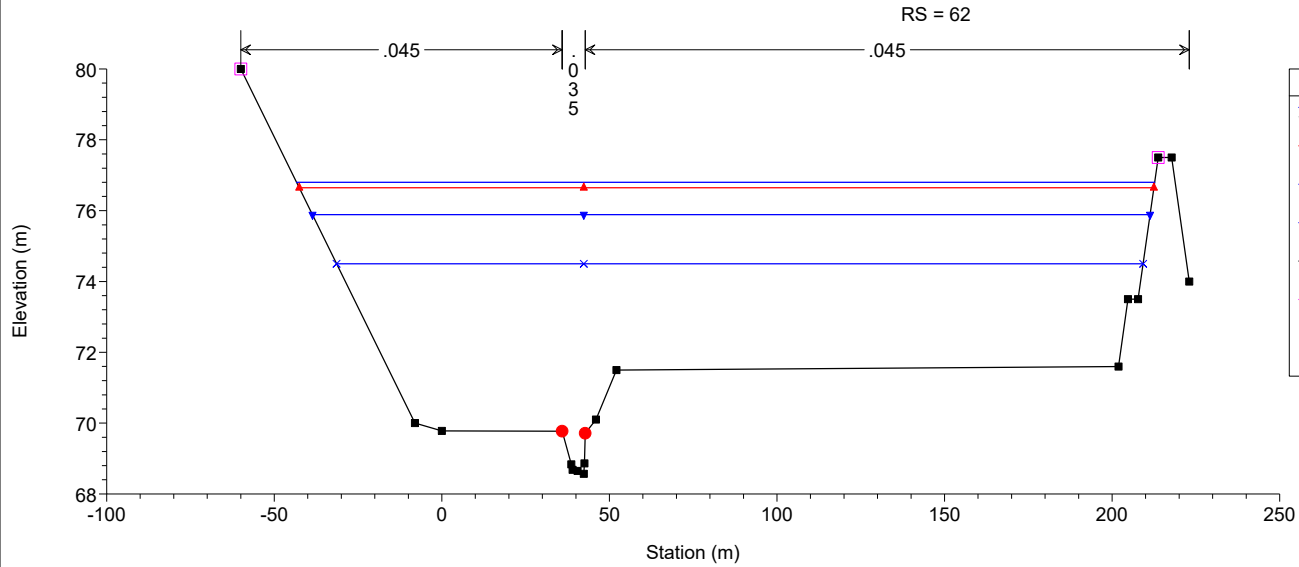
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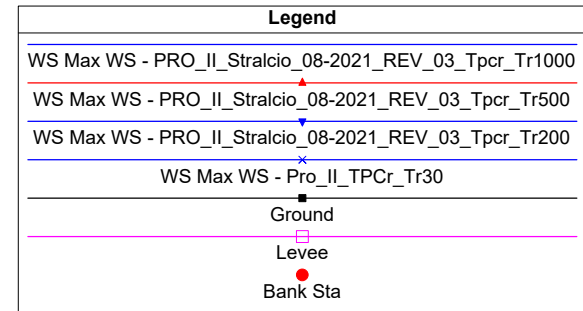
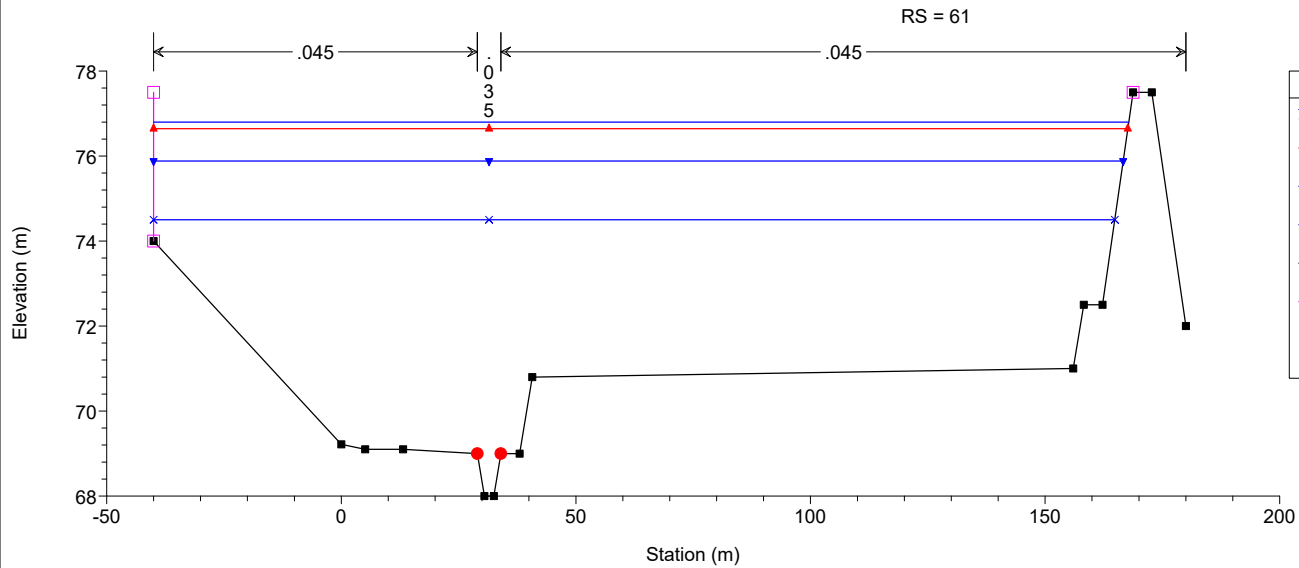
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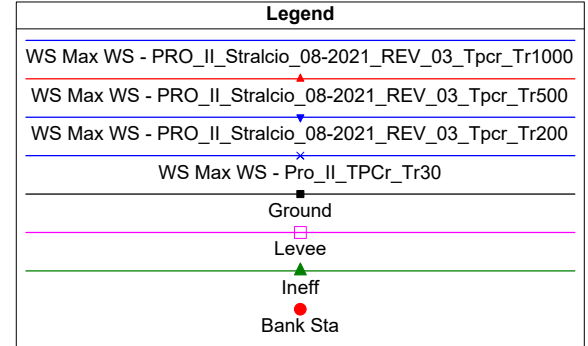
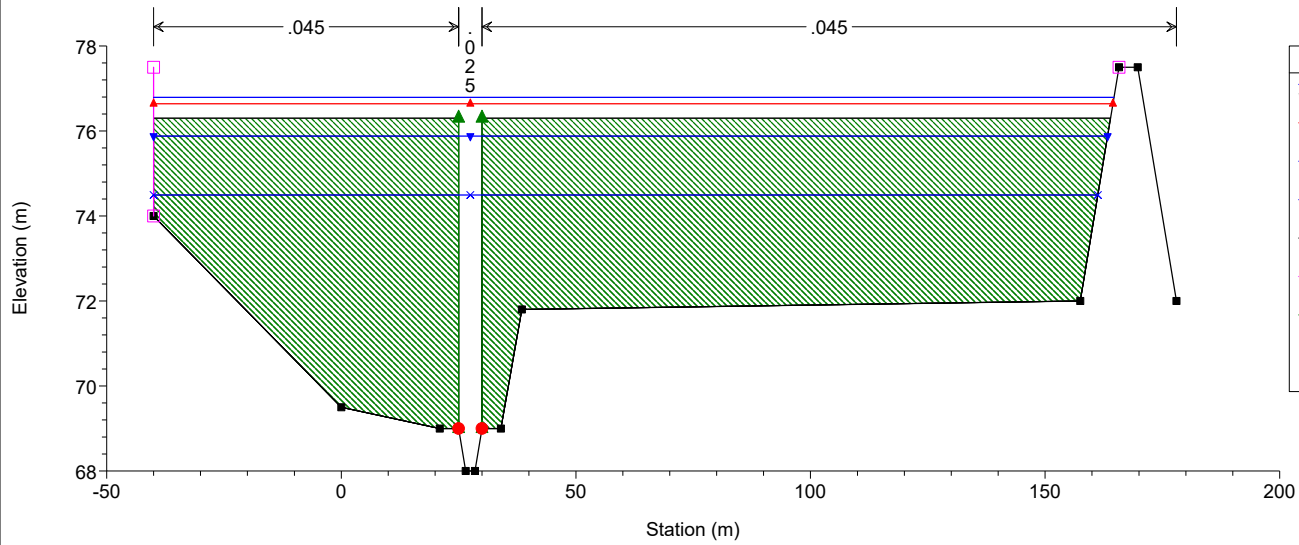
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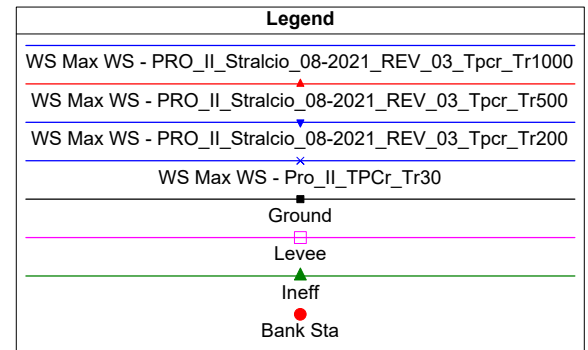
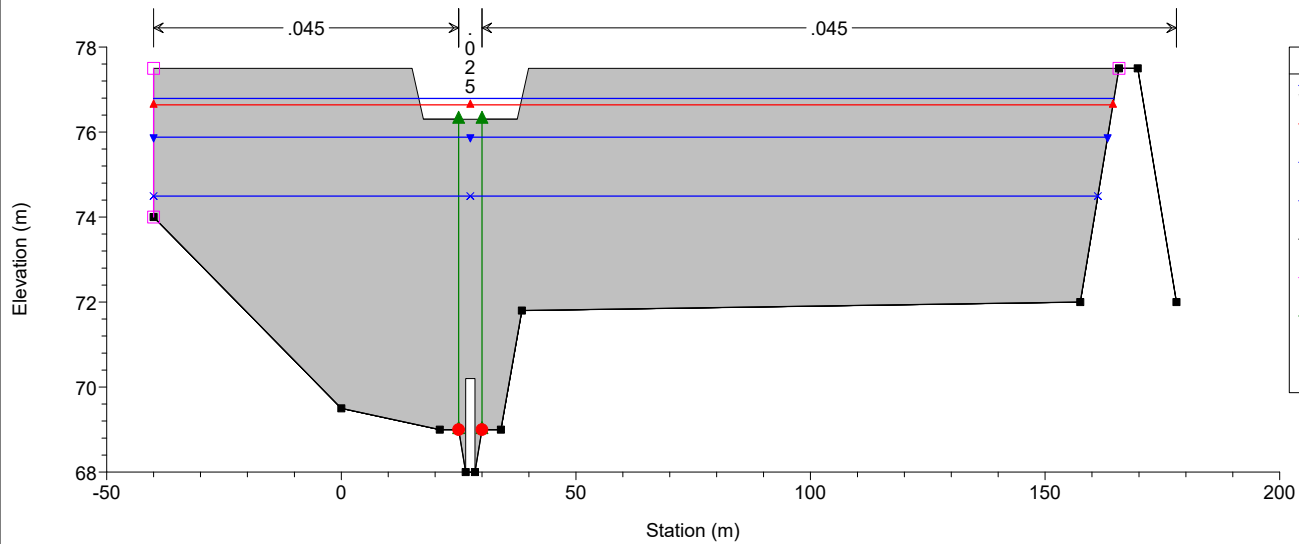
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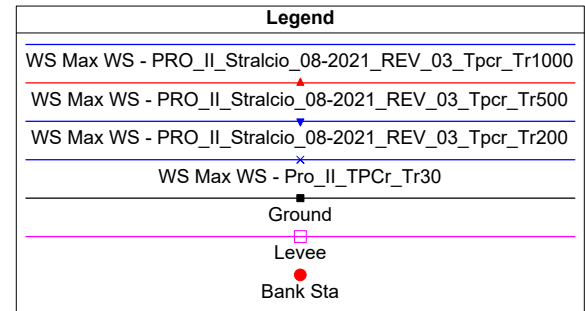
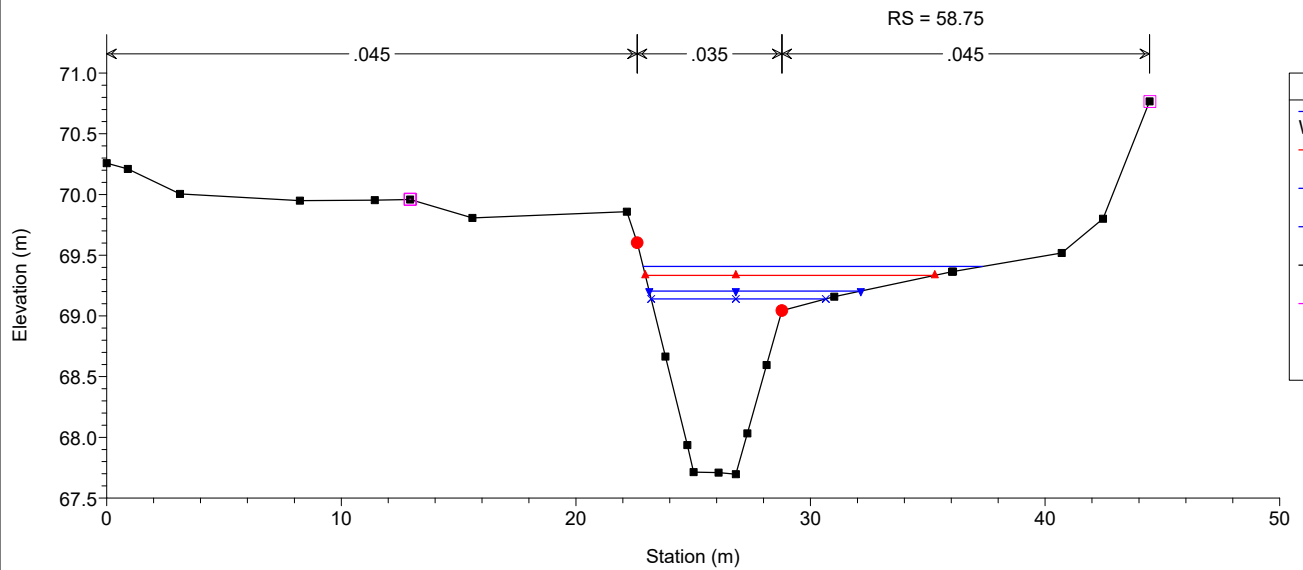
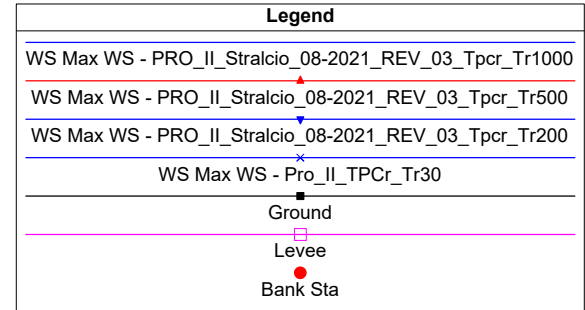
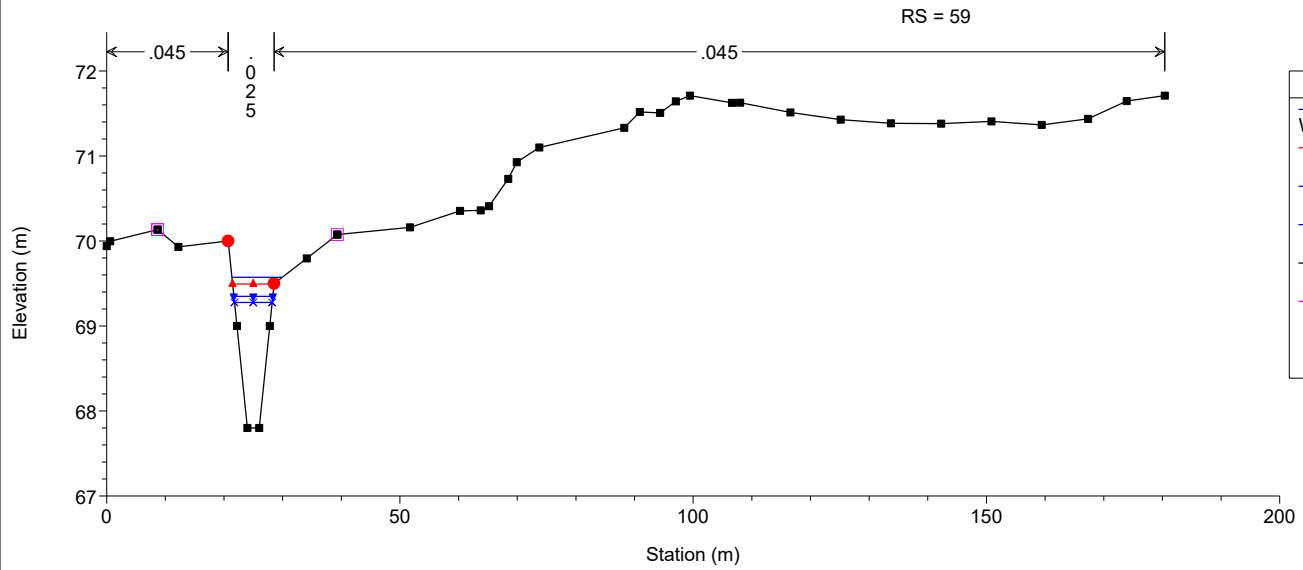


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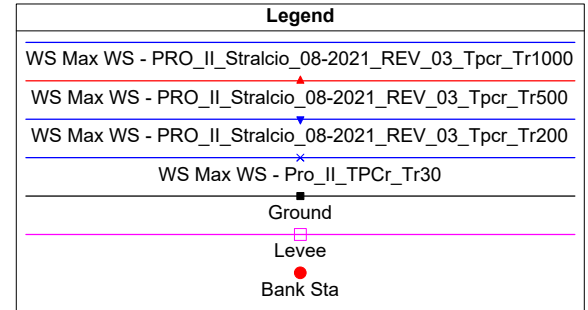
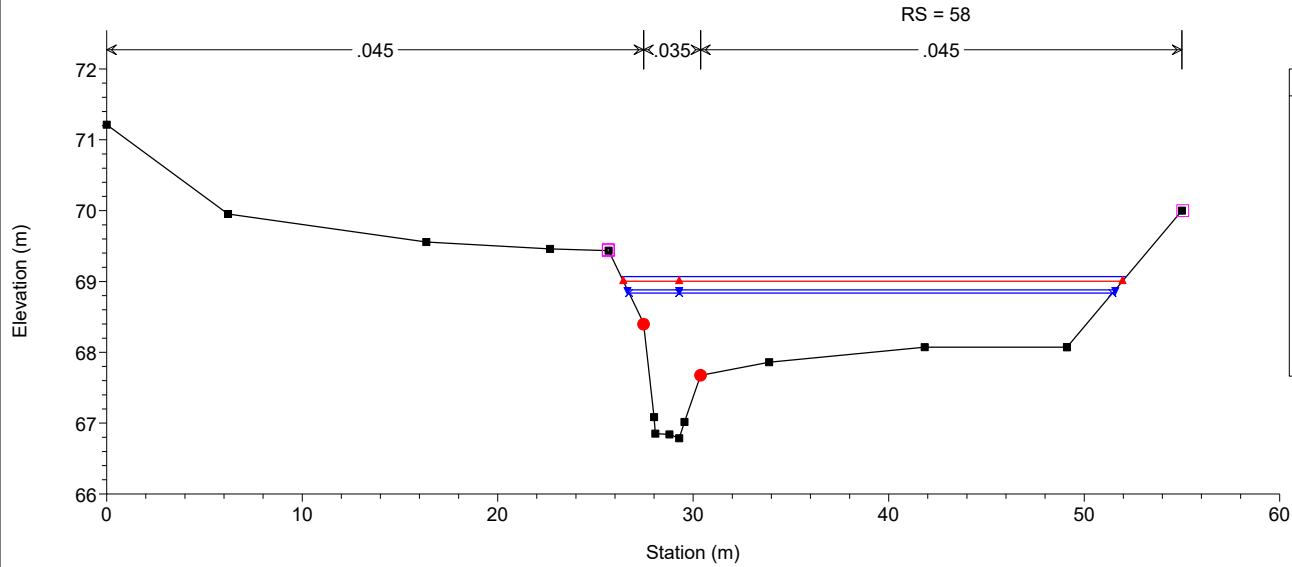
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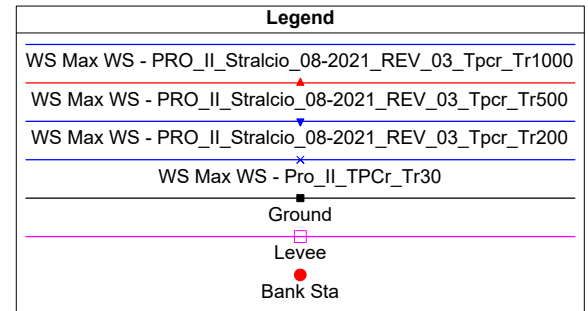
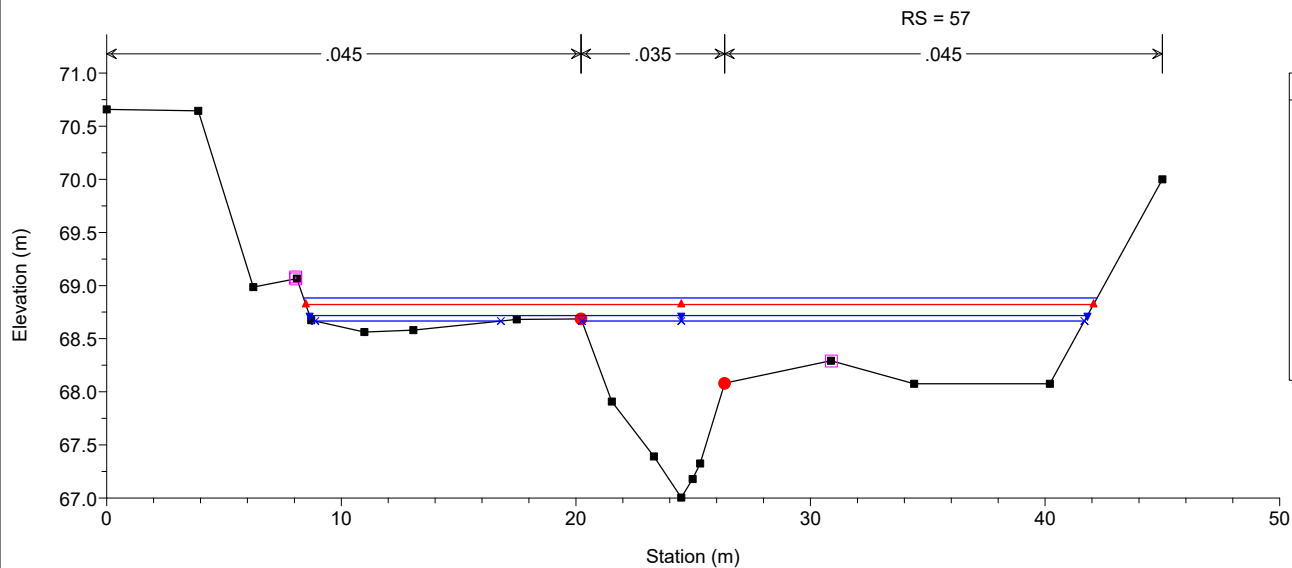


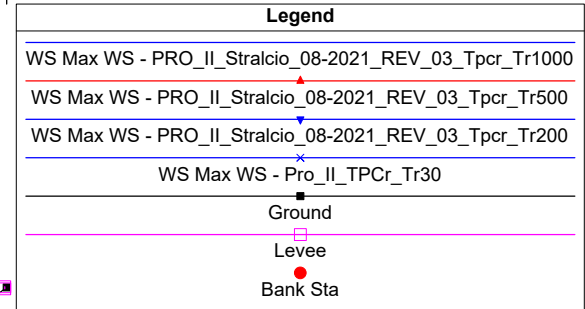
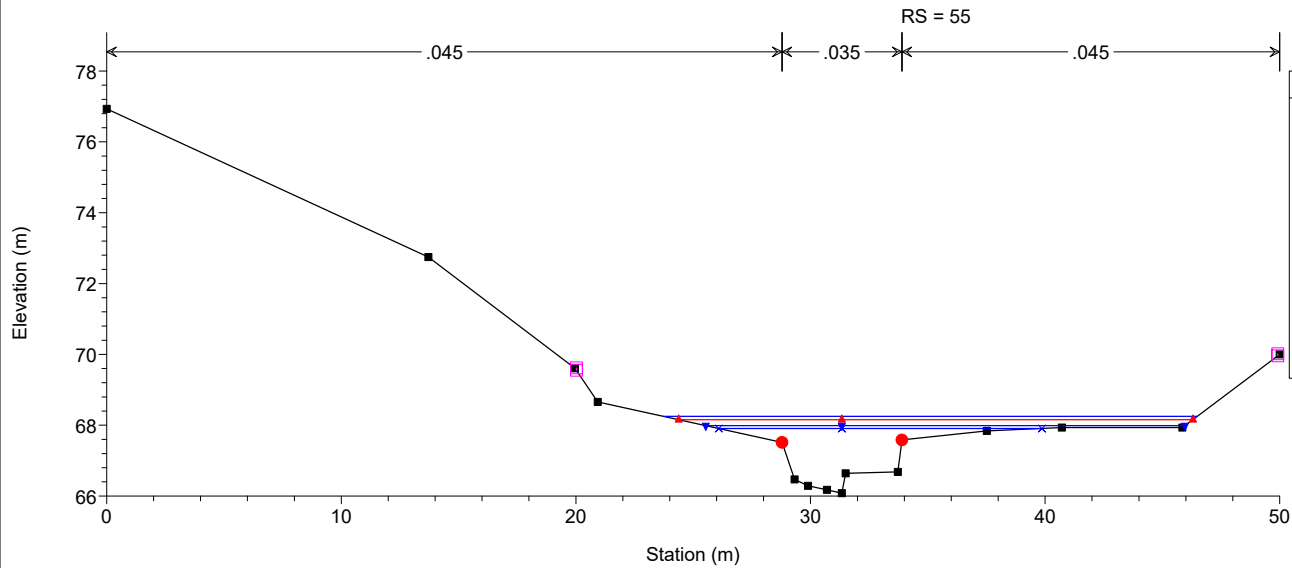
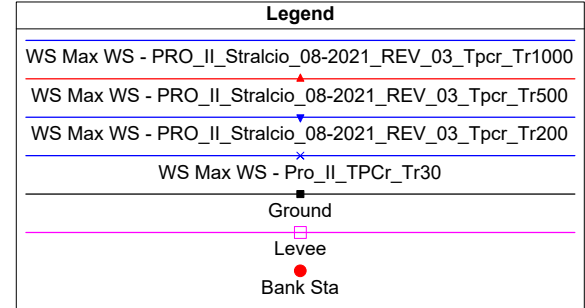
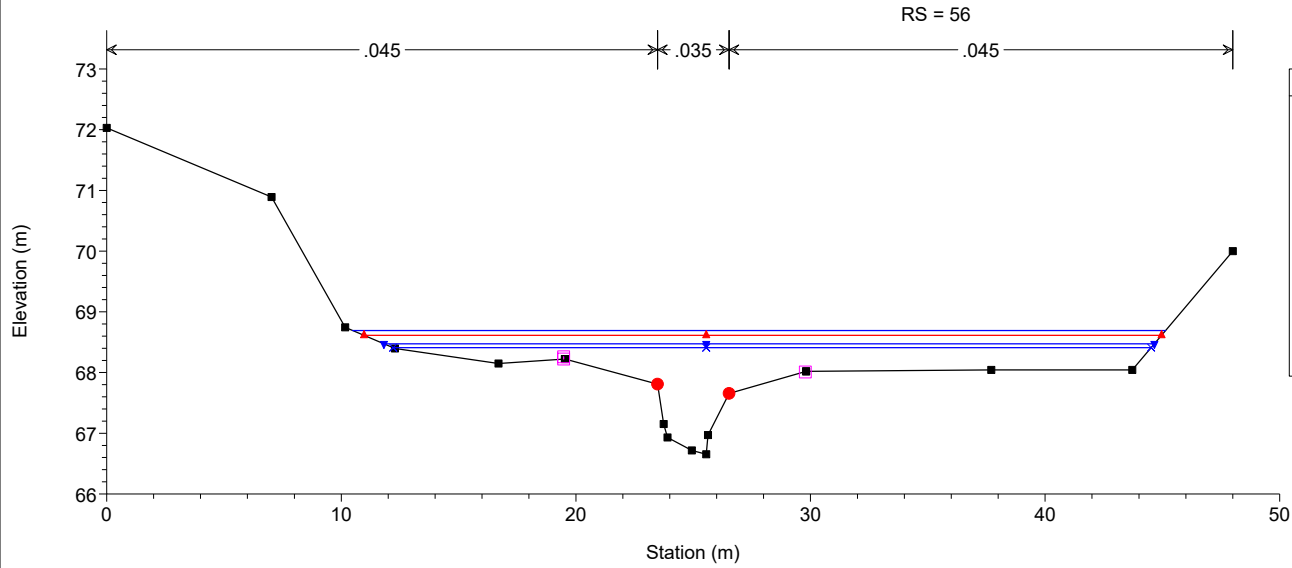


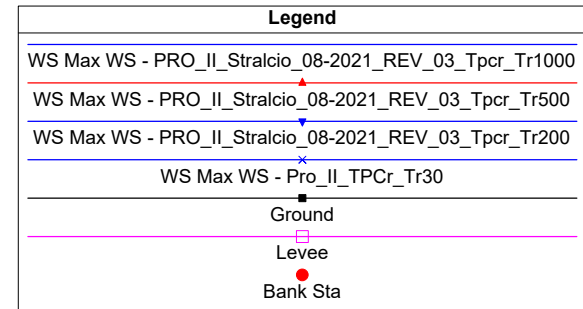
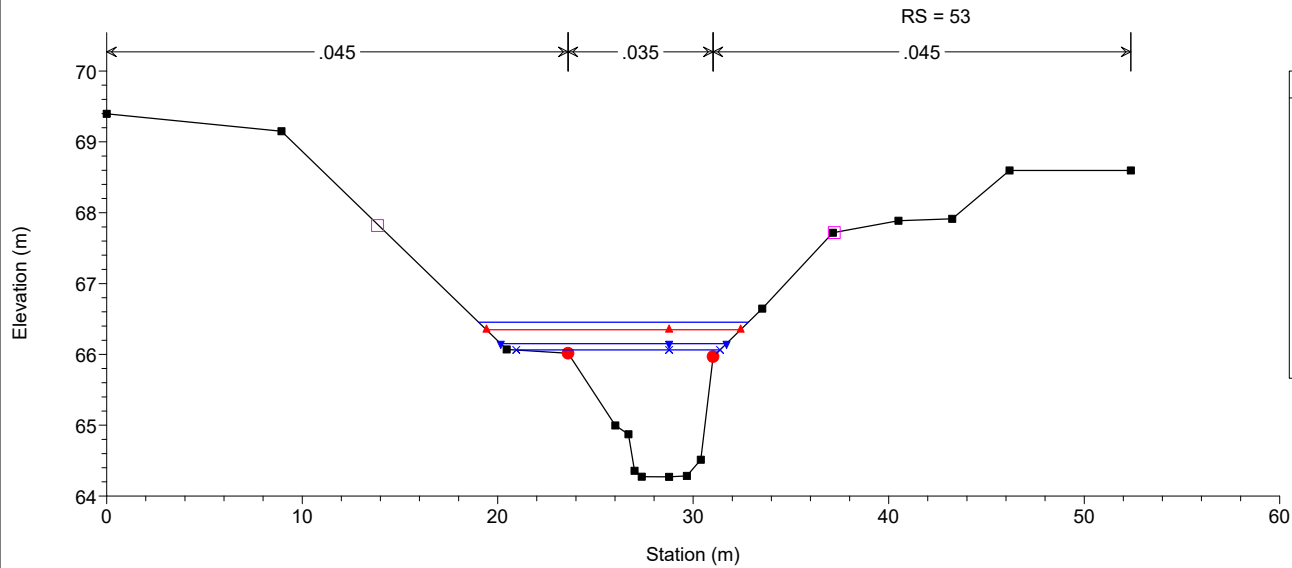
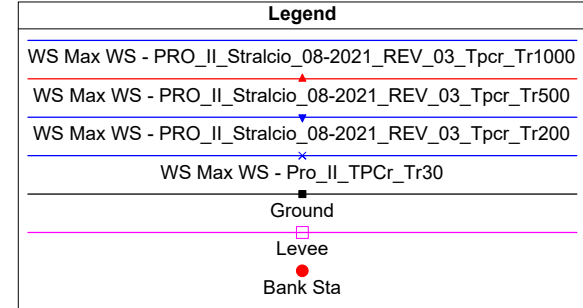
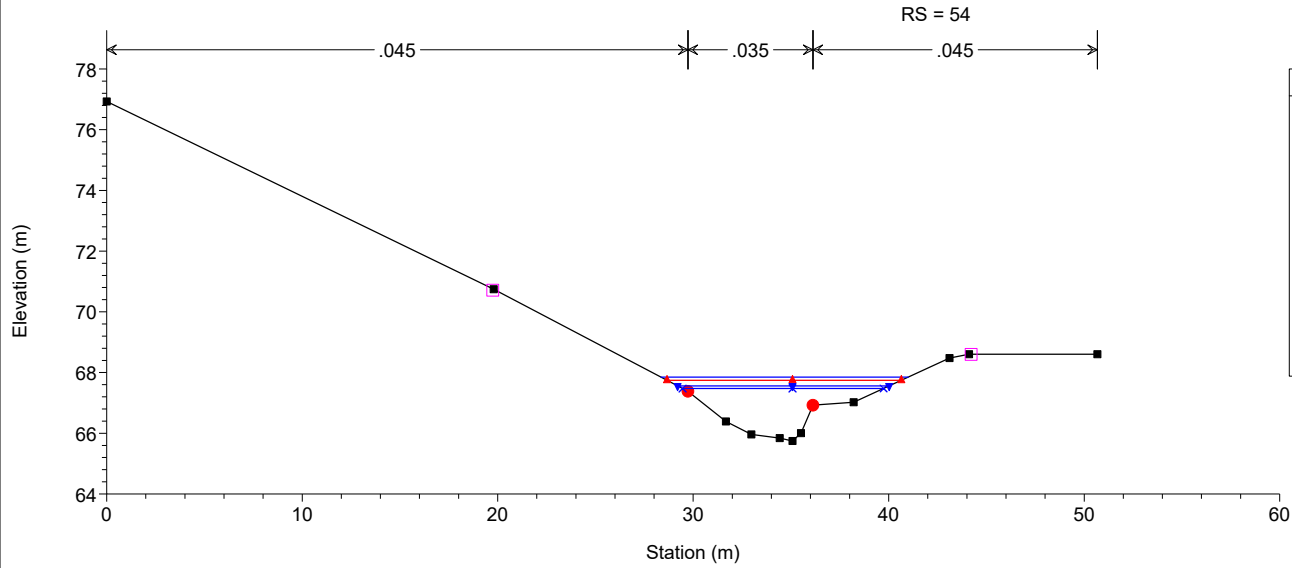
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

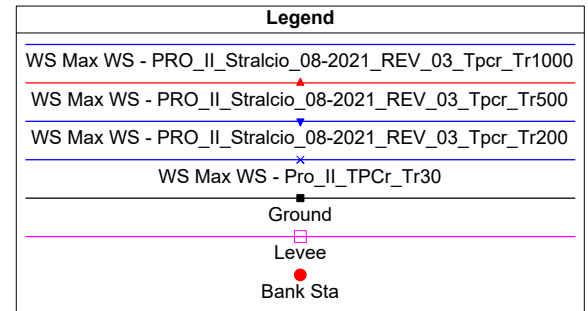
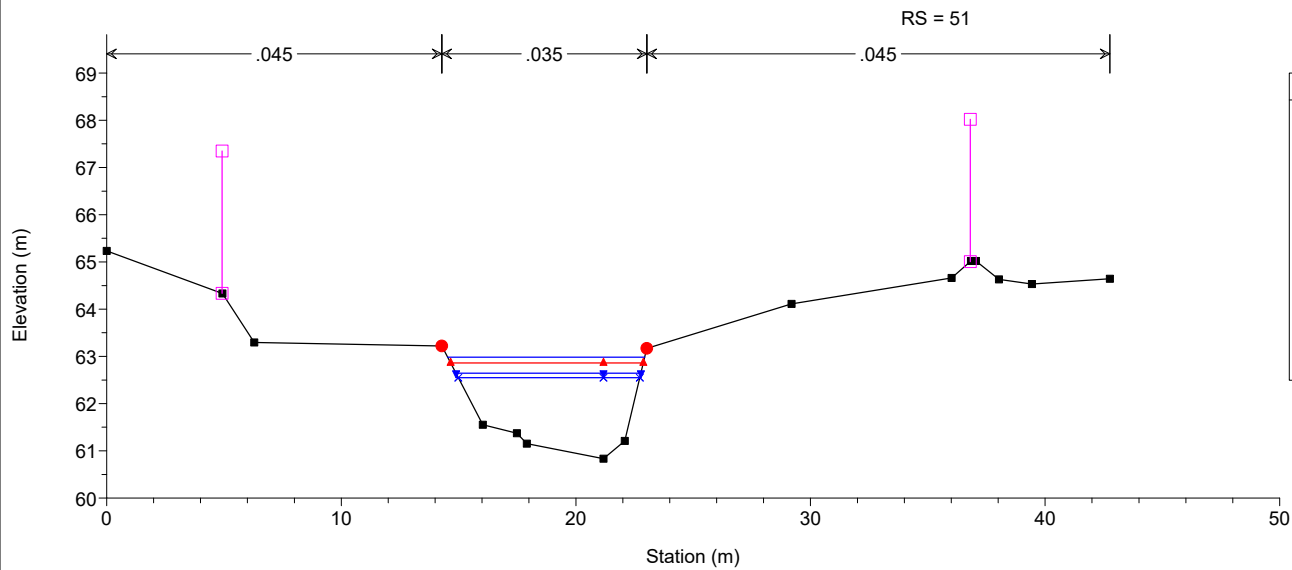
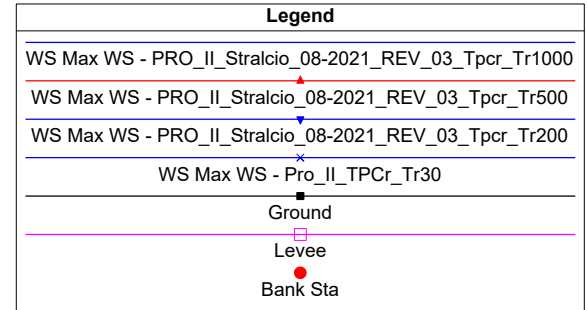
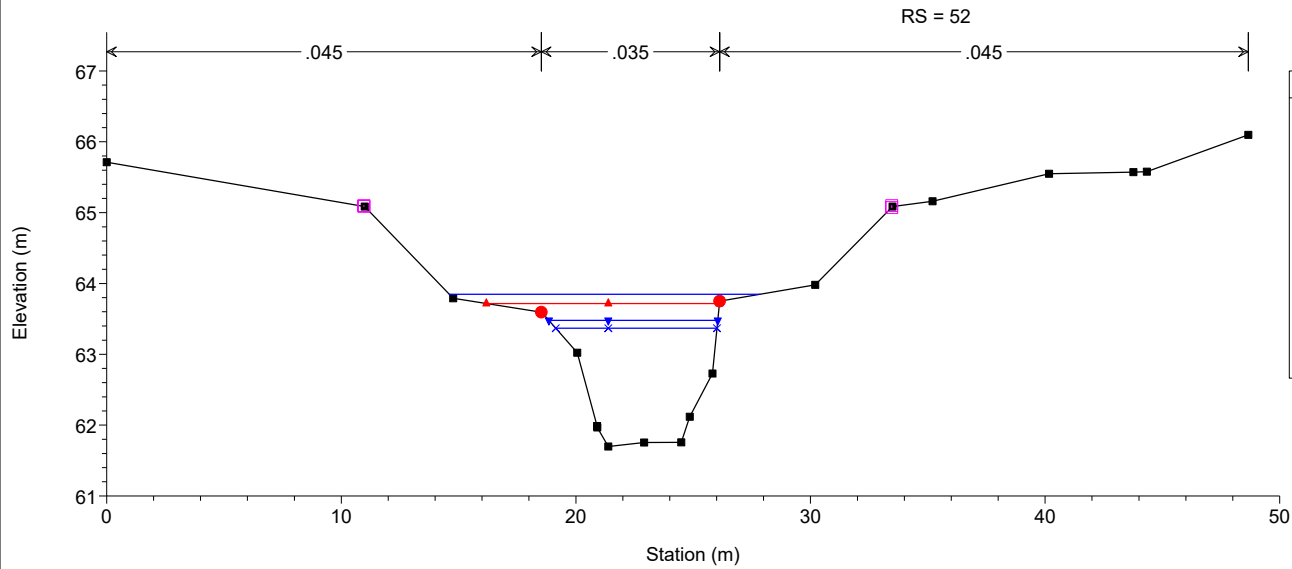


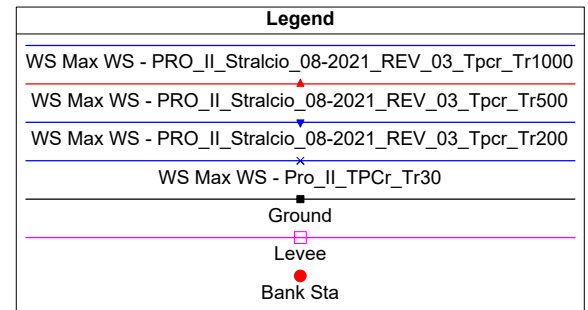
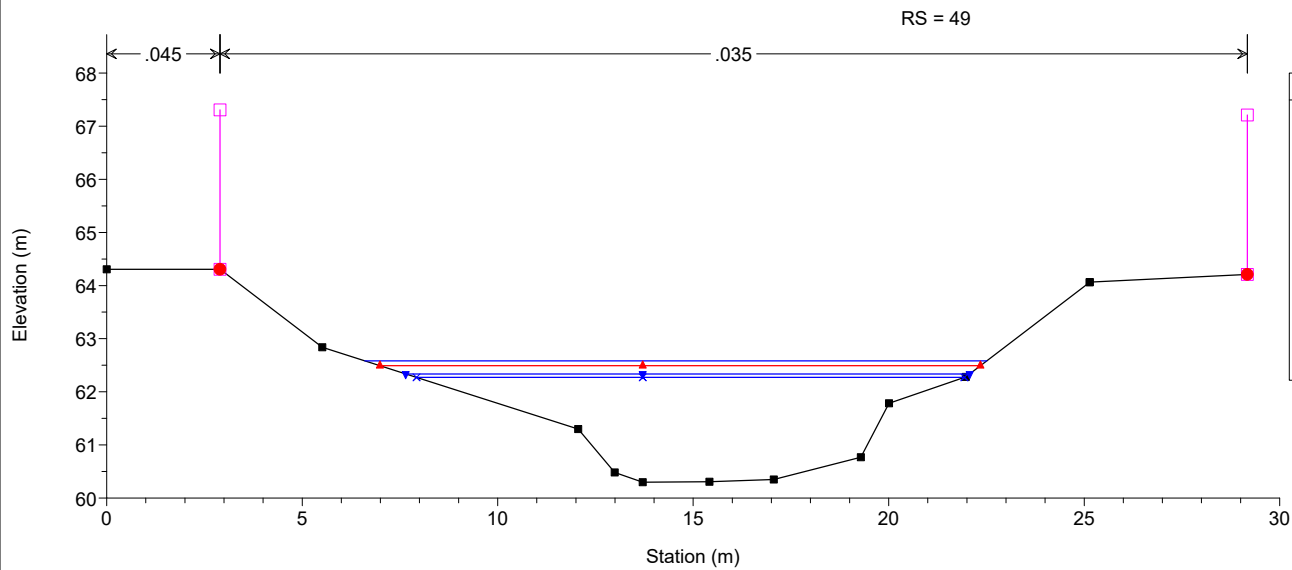
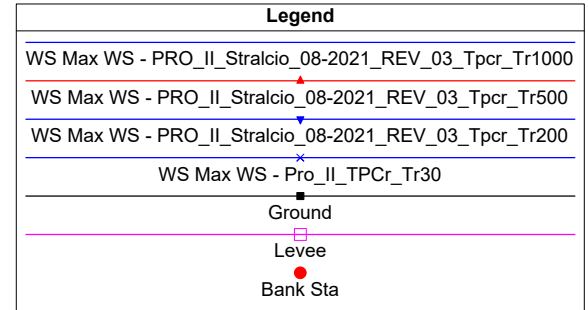
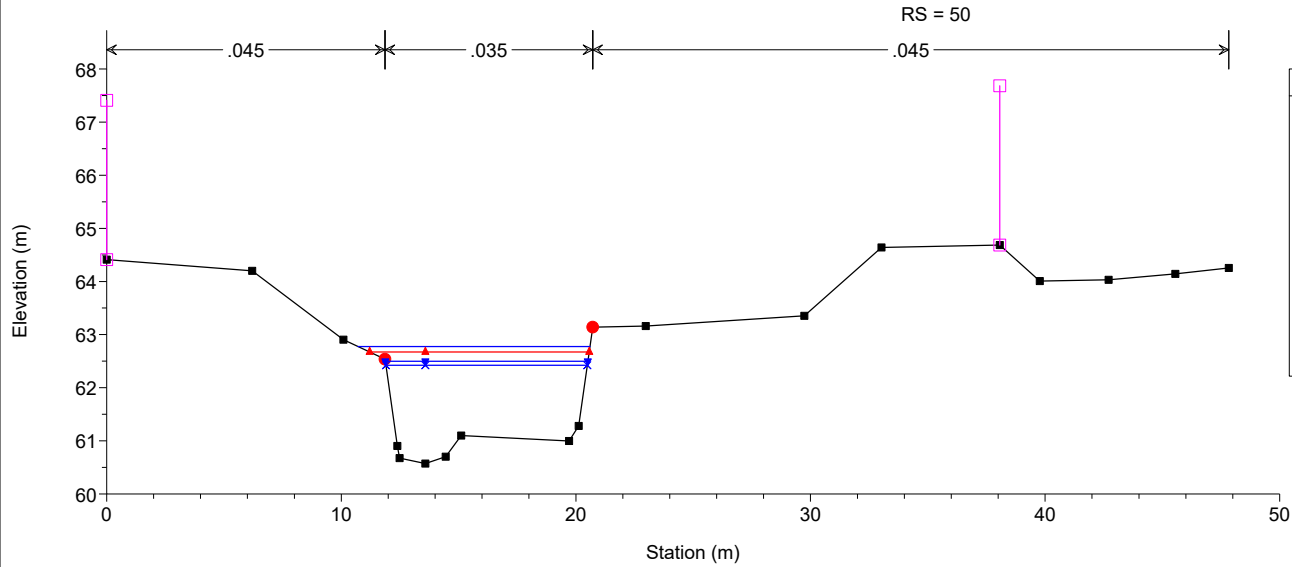
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



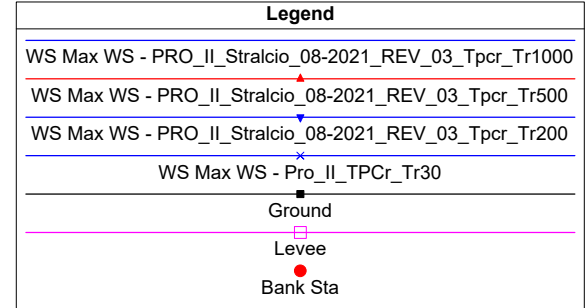
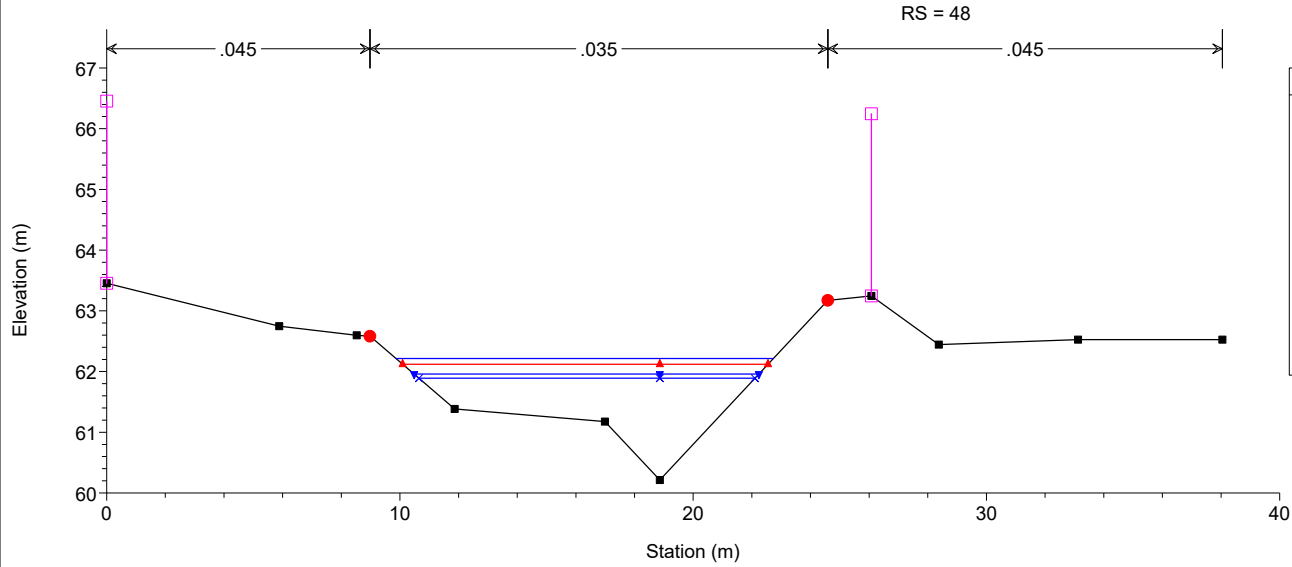




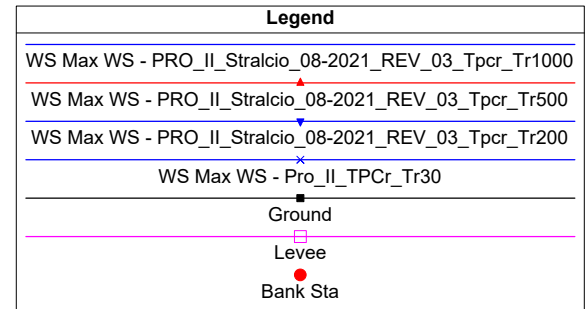
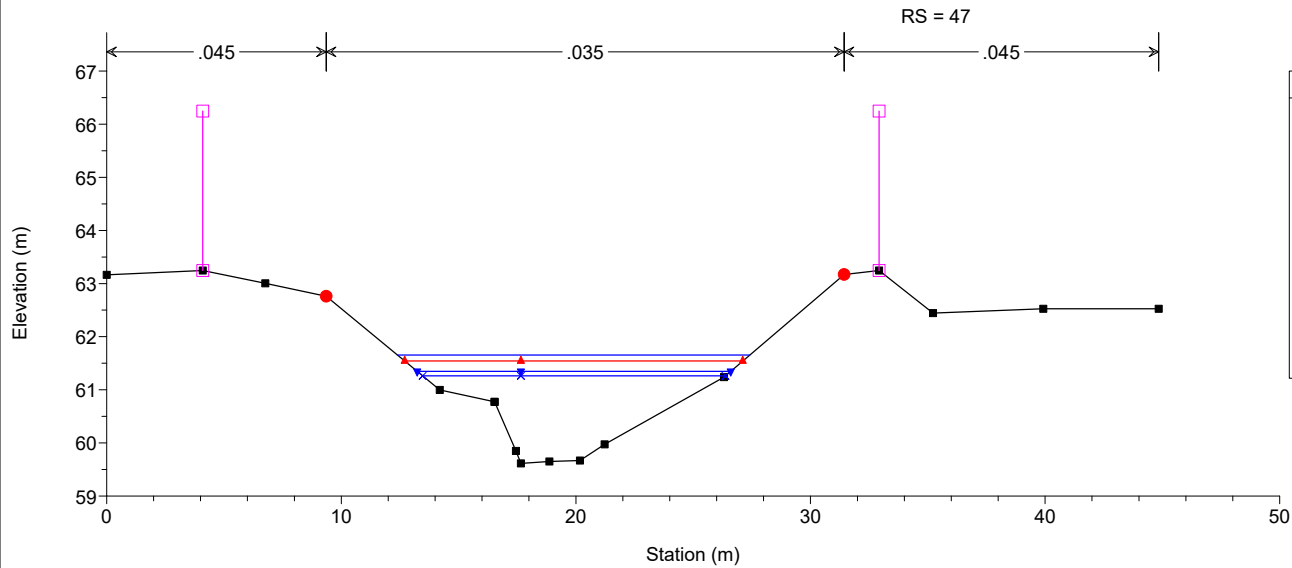




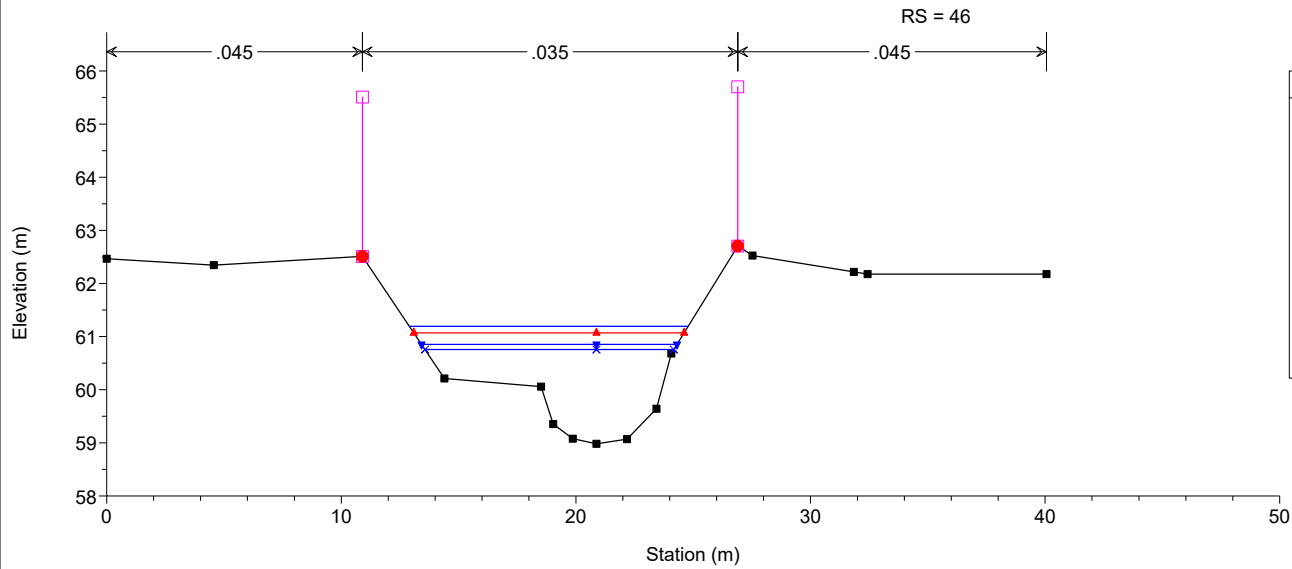
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

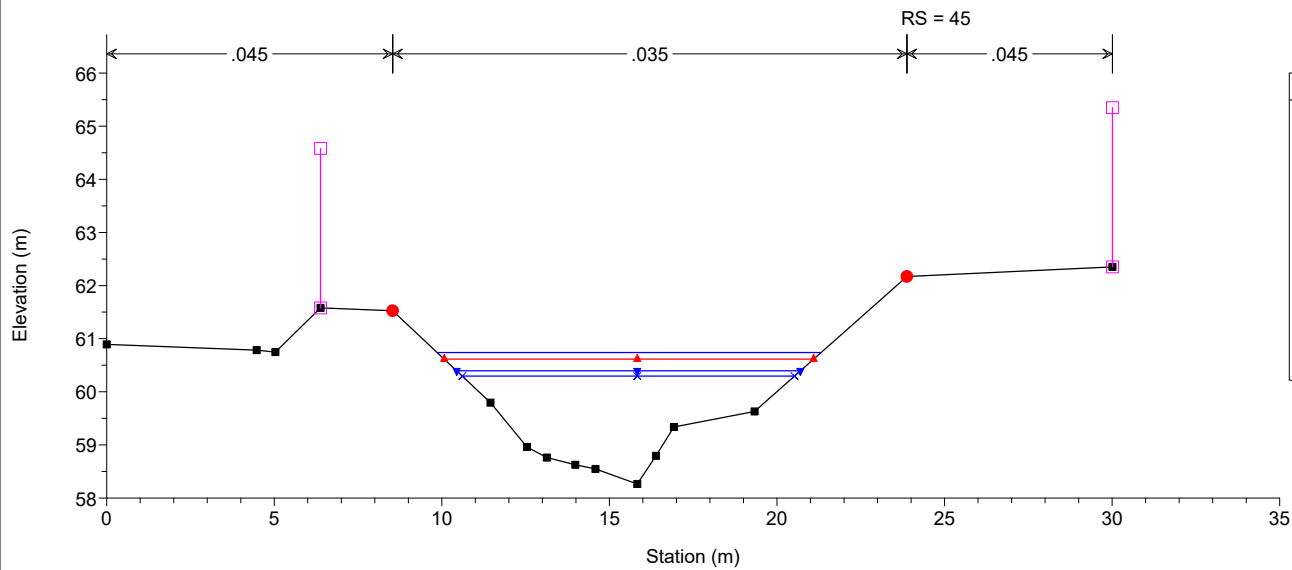


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



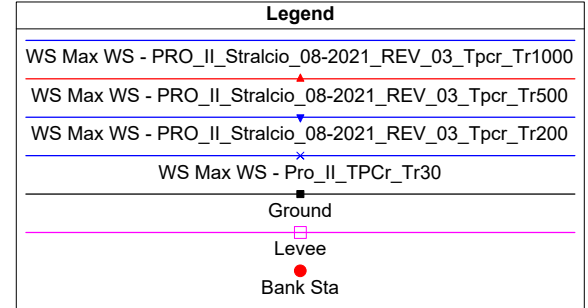
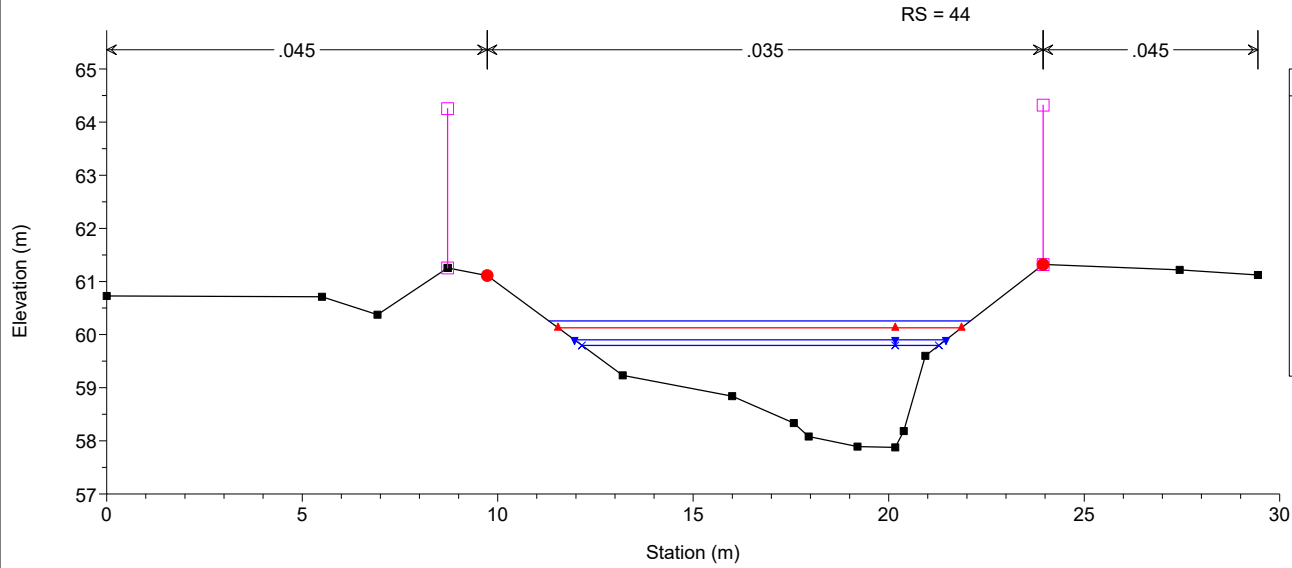
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

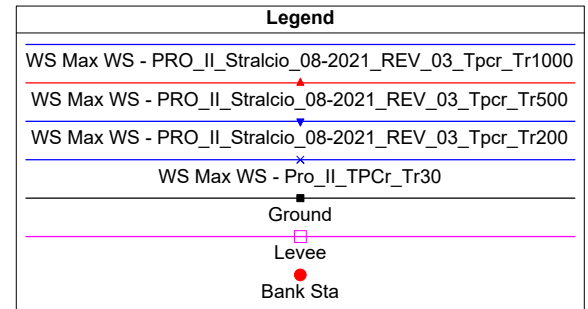
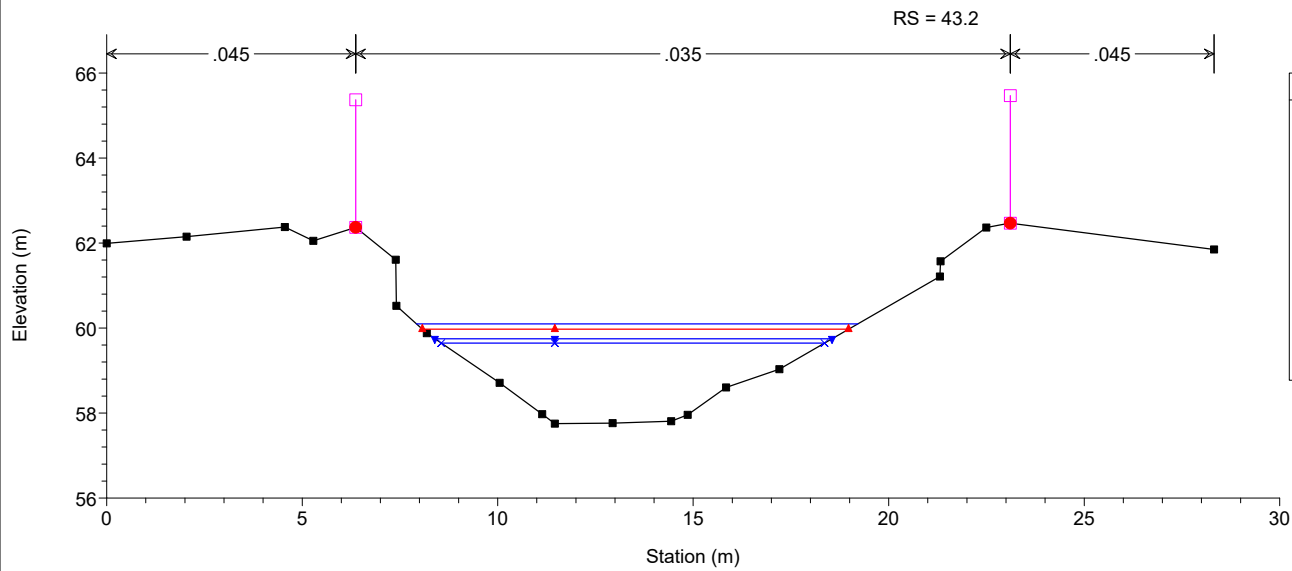


Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

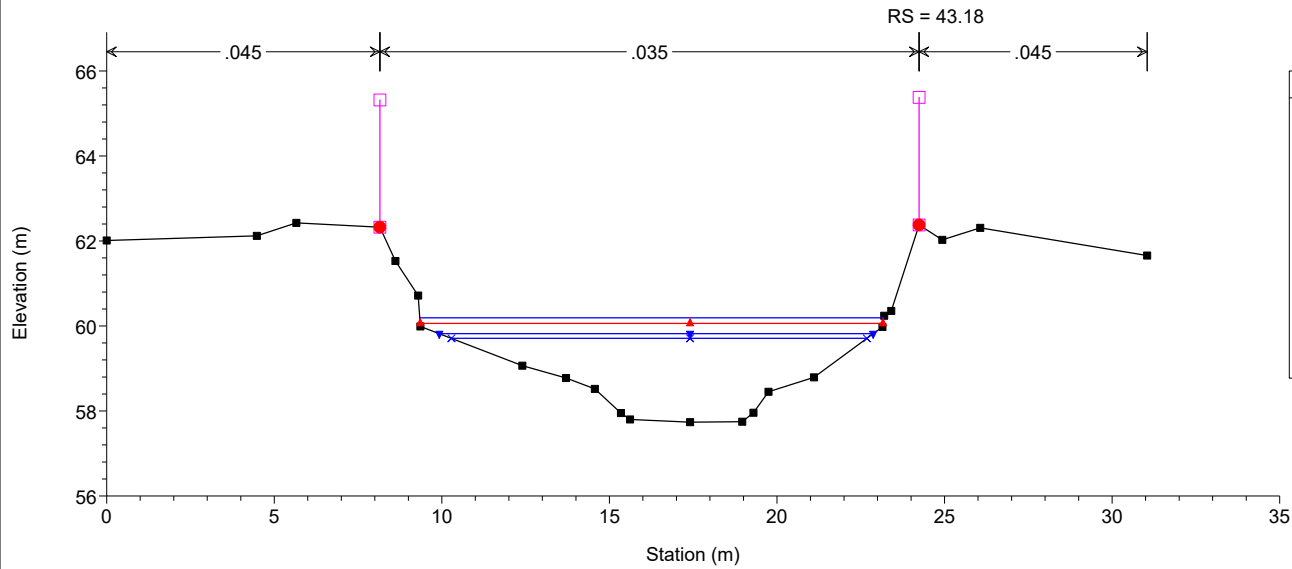
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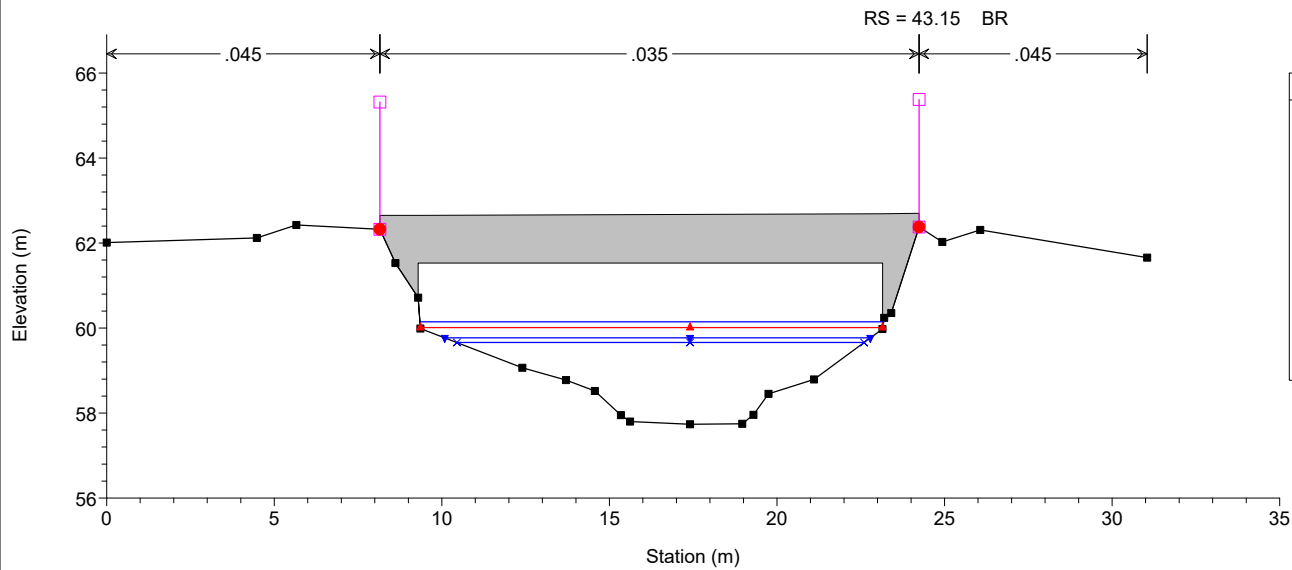
RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



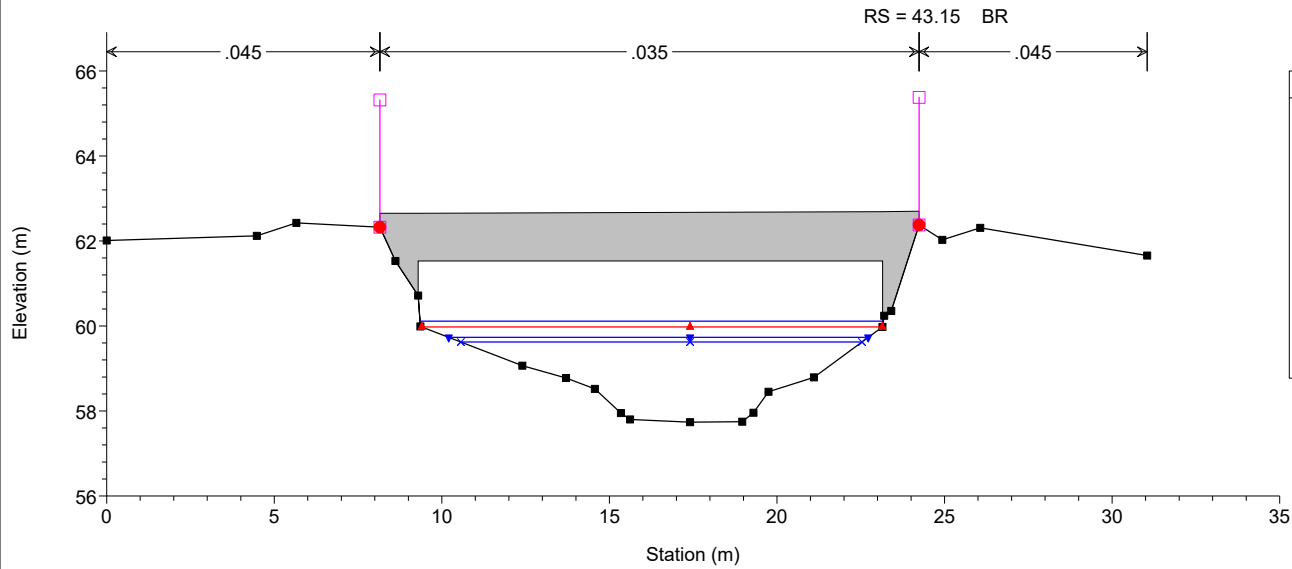




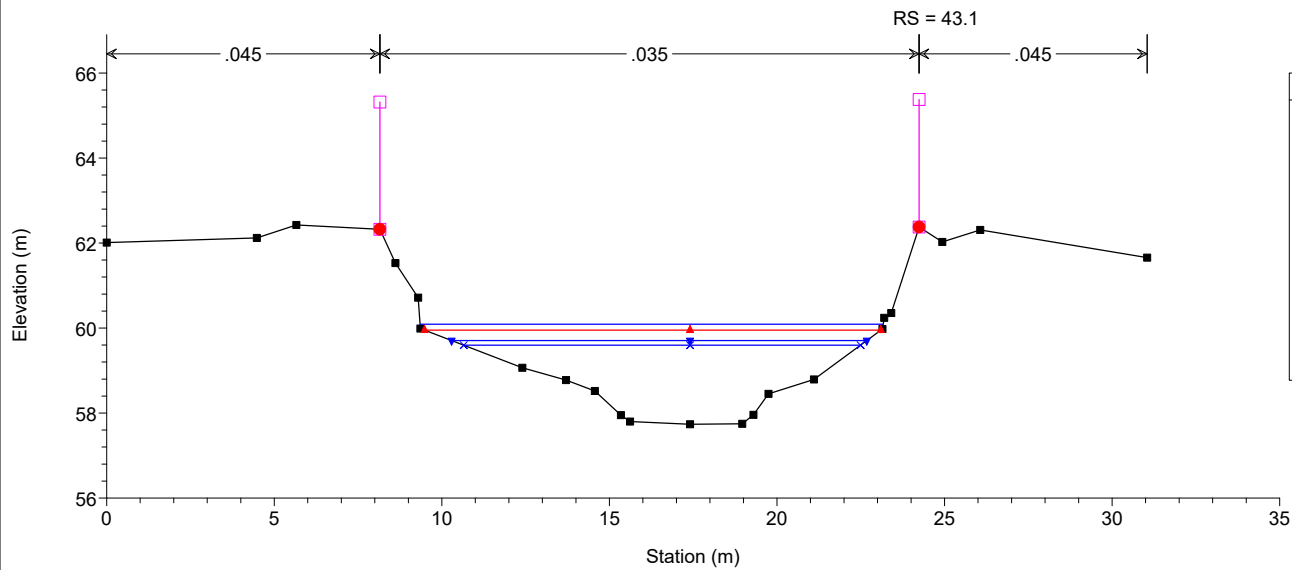
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	✕
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●



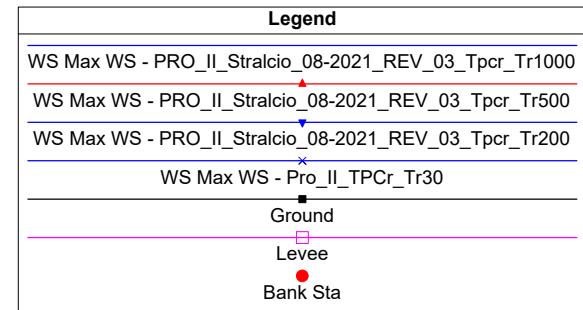
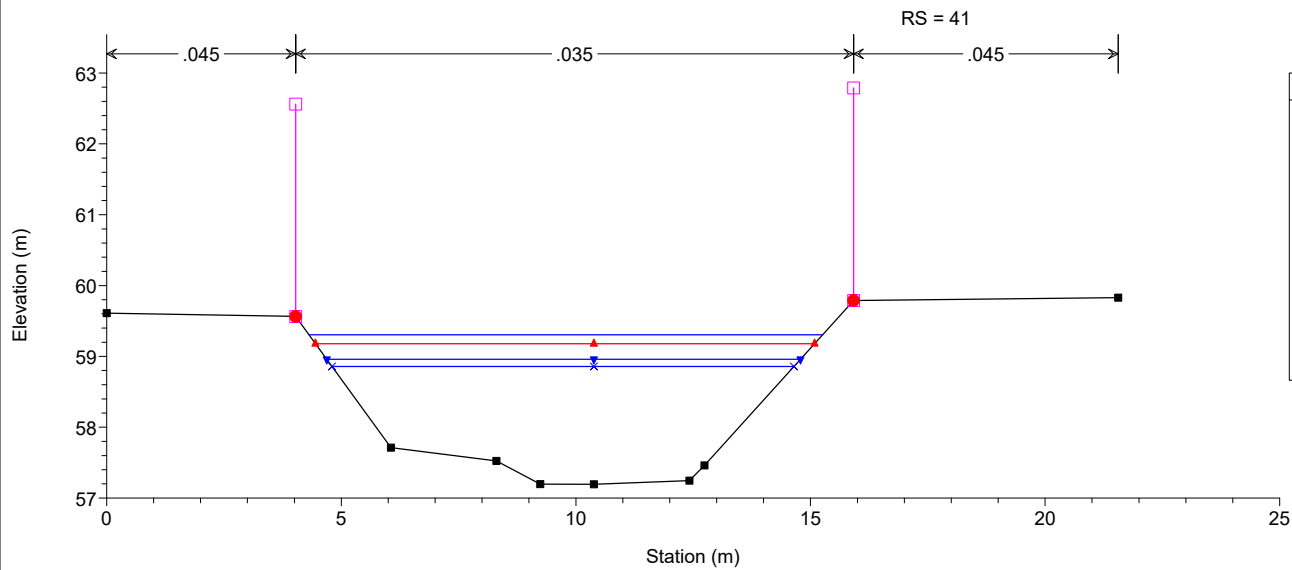
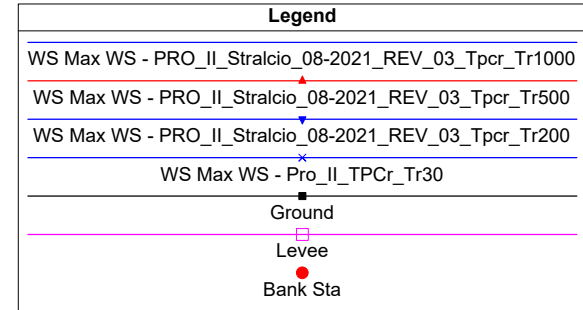
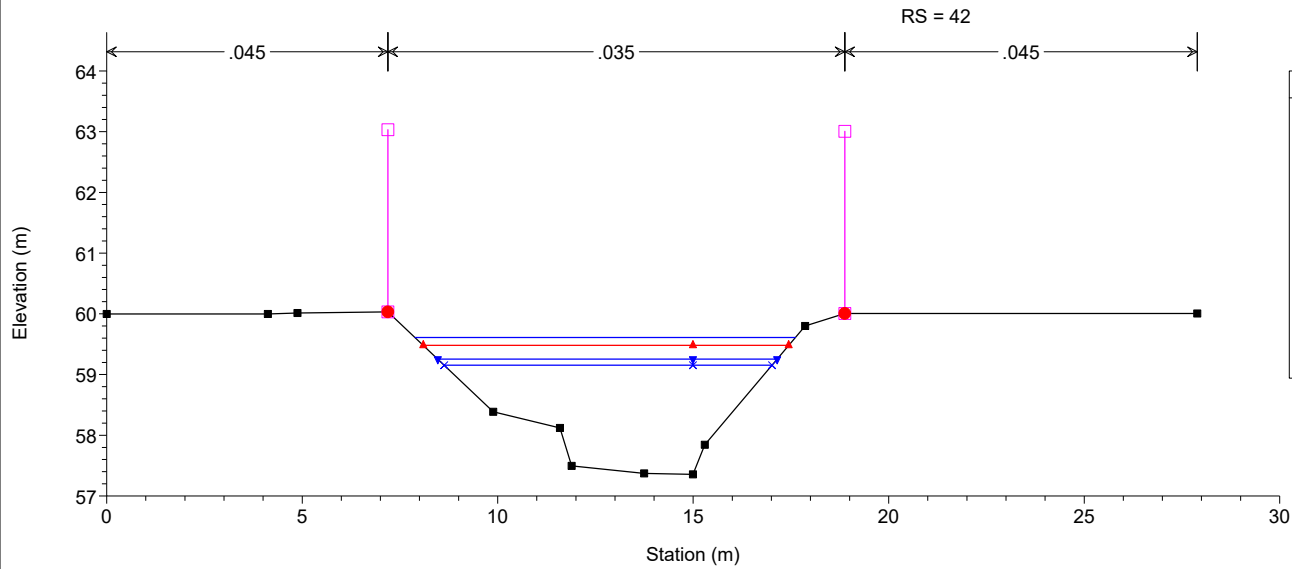
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	✕
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●



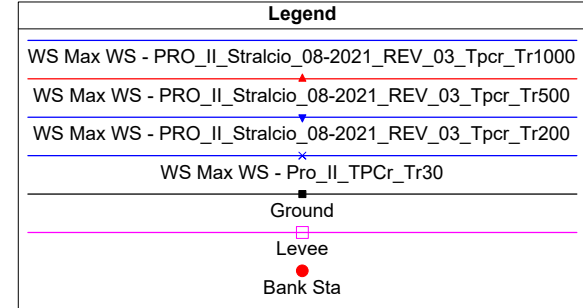
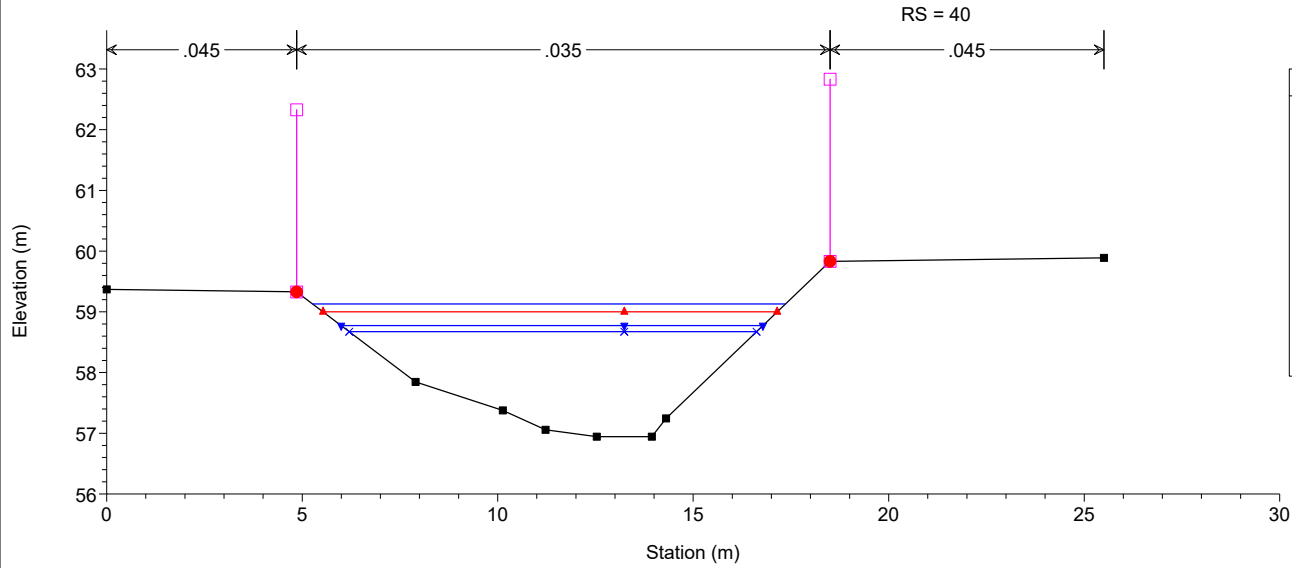
Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●



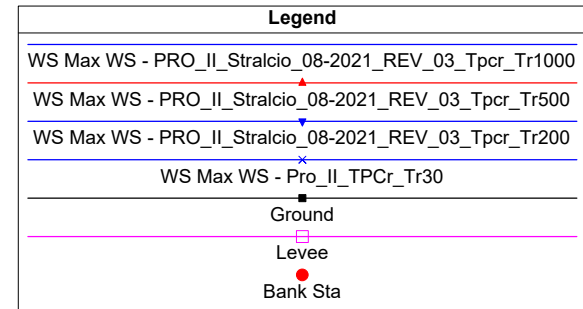
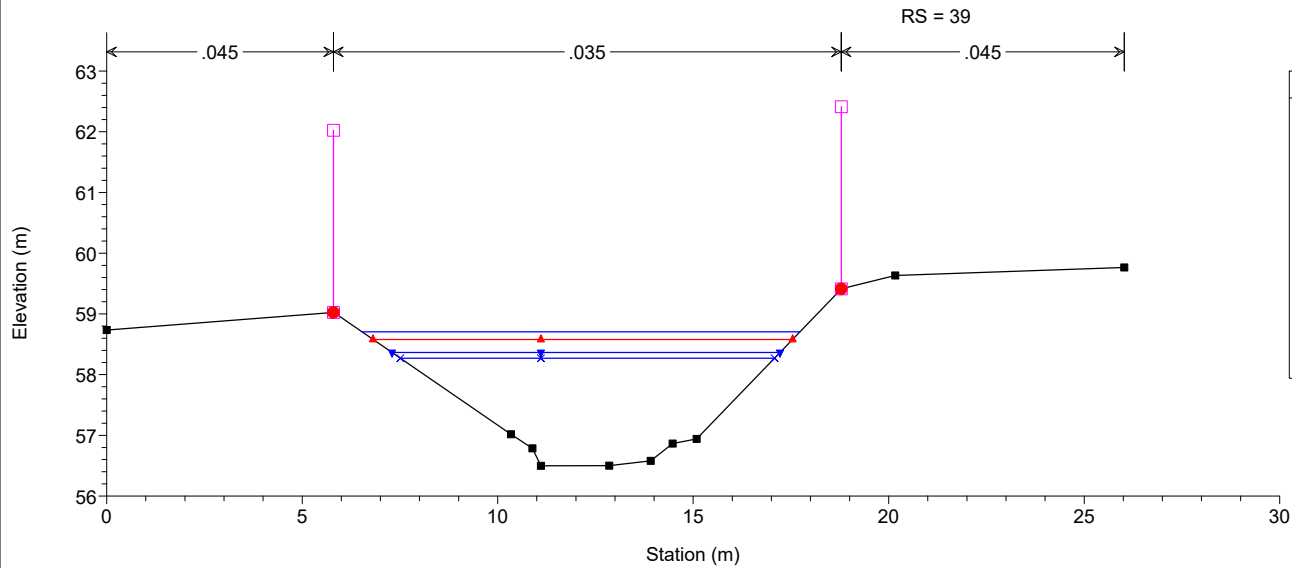
Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●



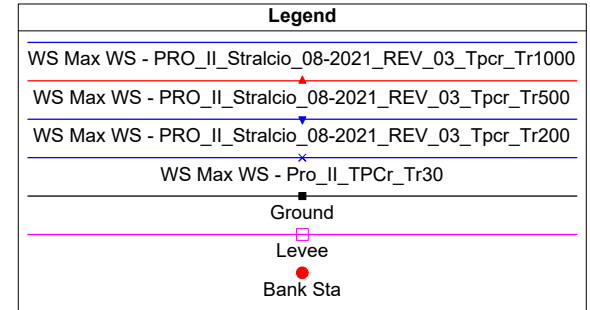
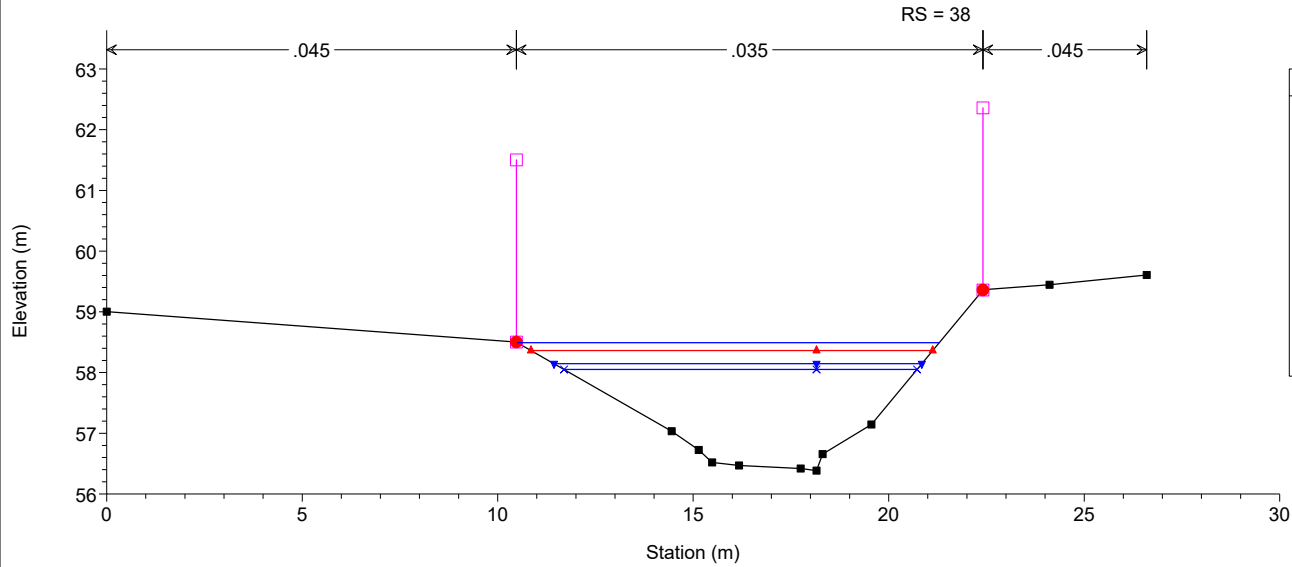
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



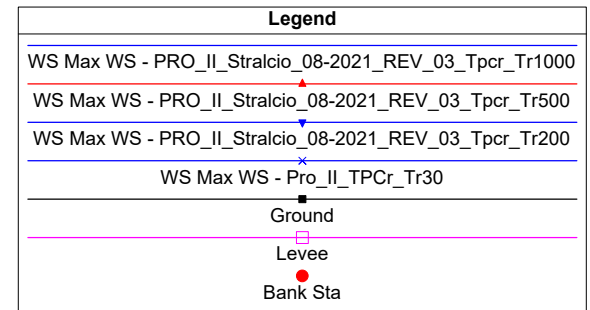
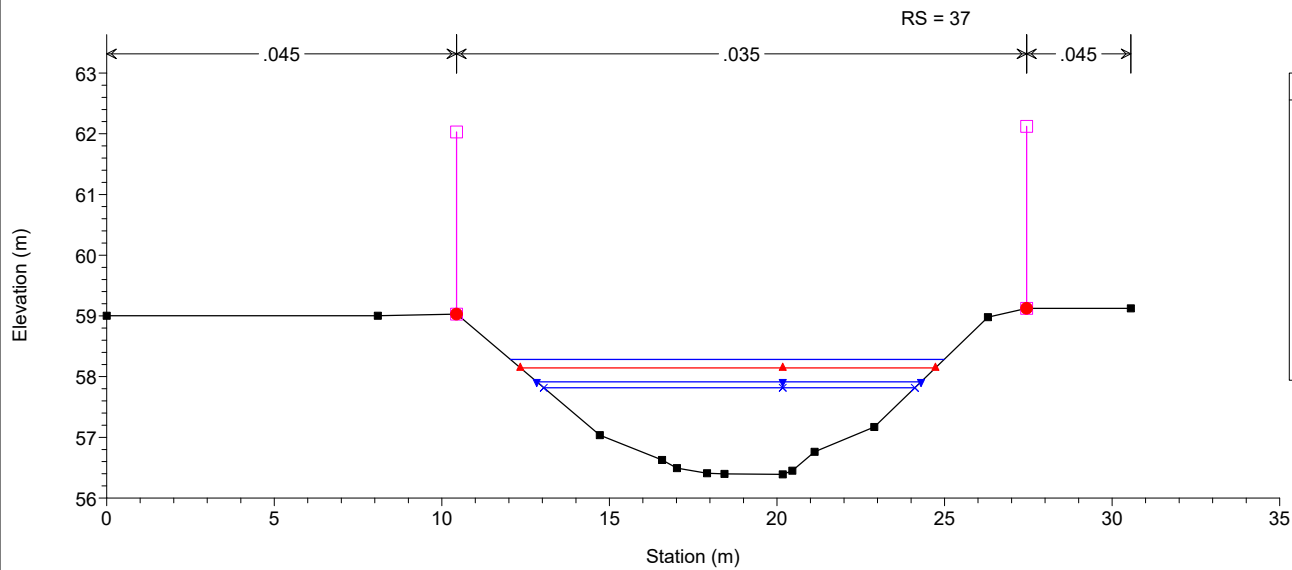
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

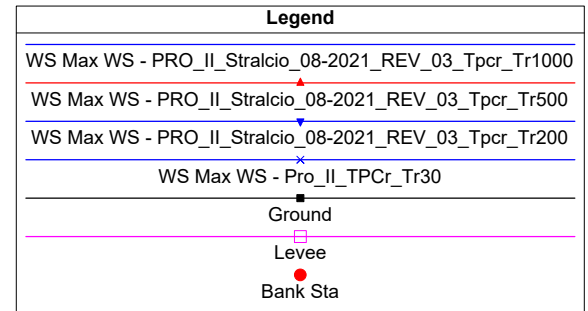
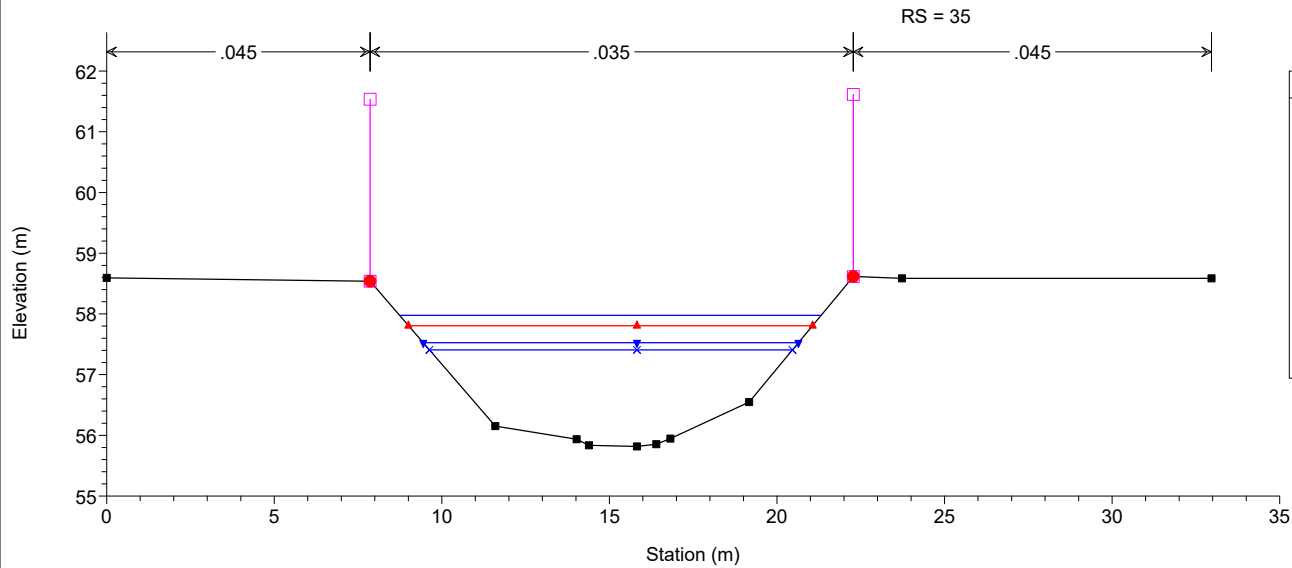
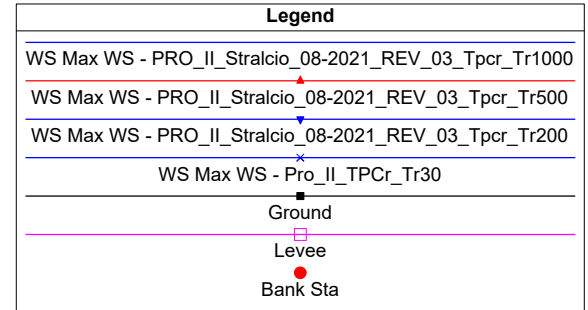
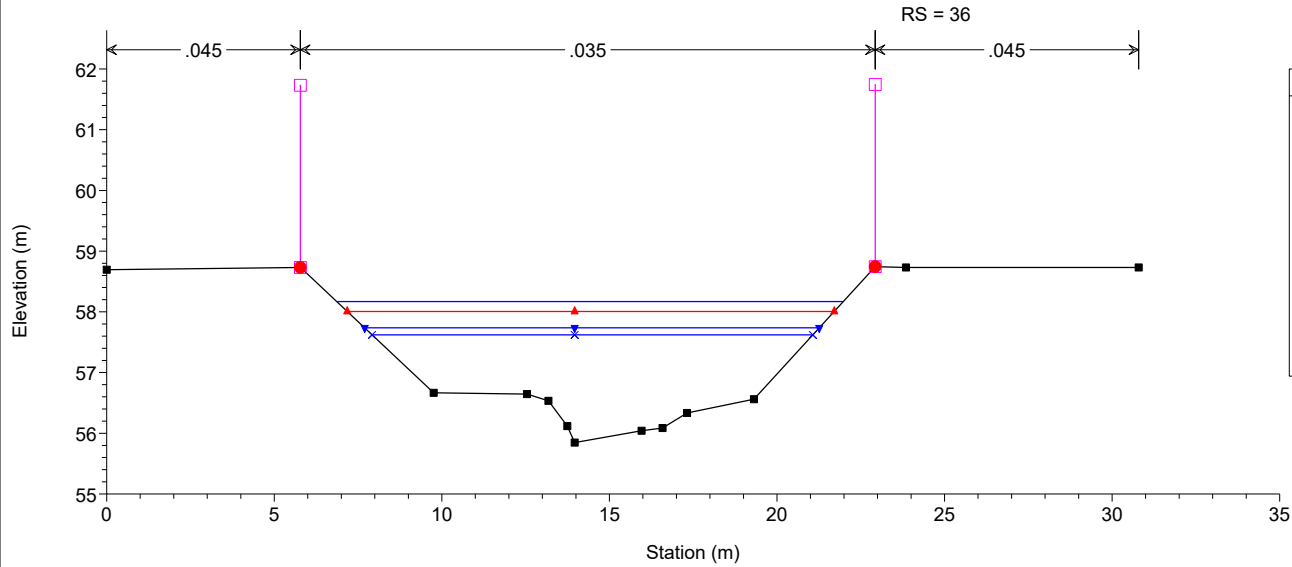


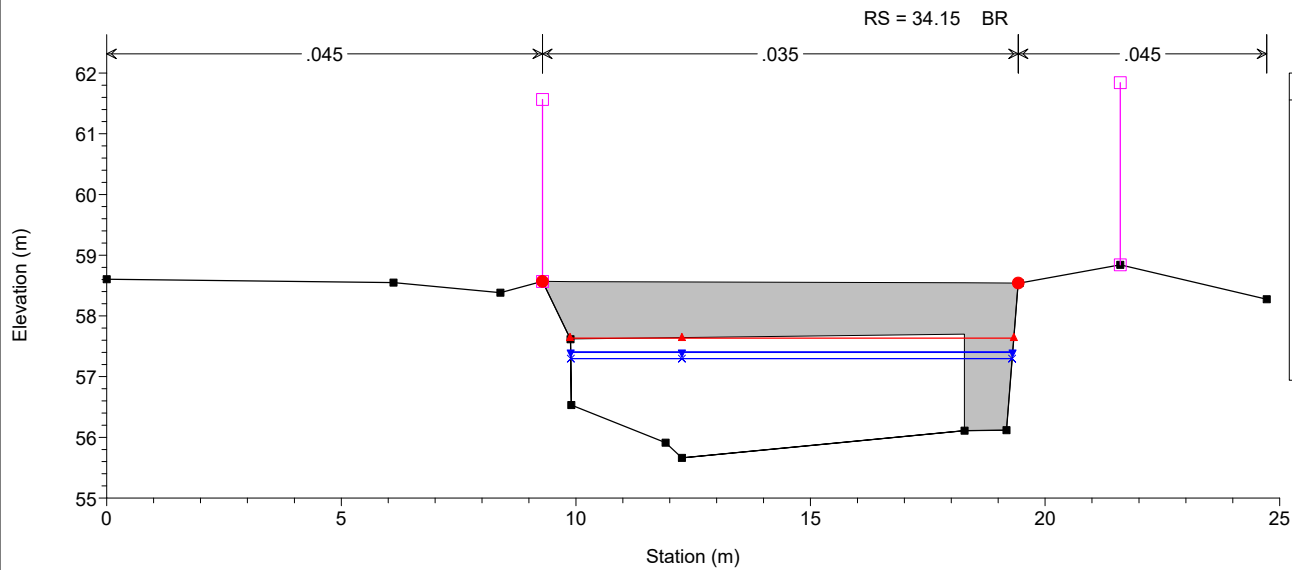
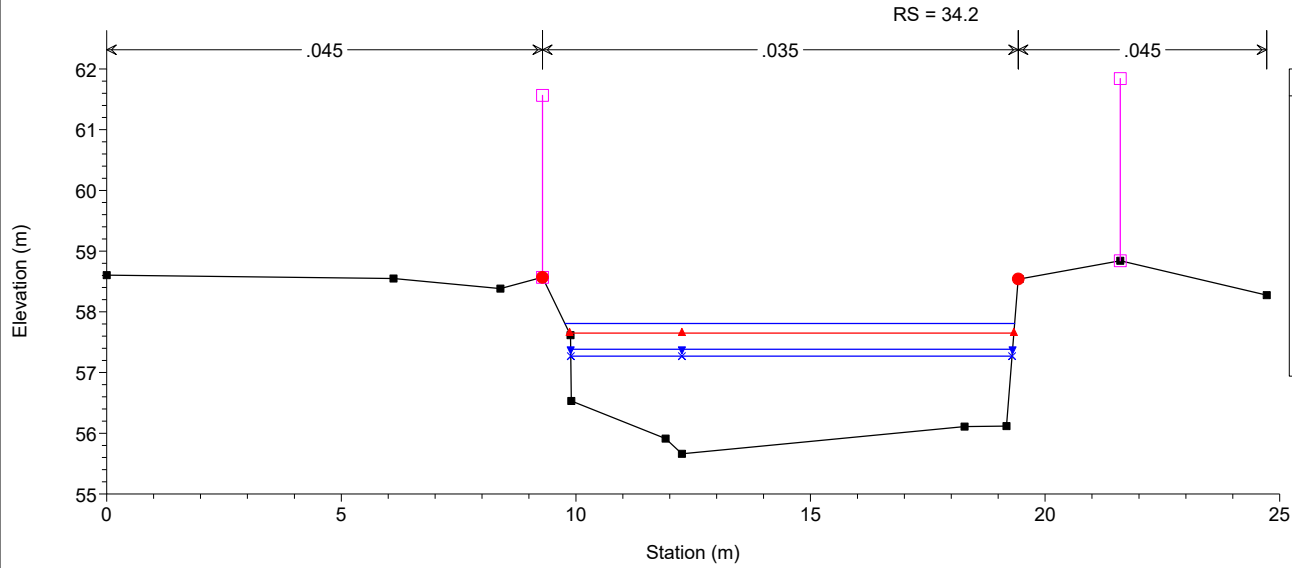
RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

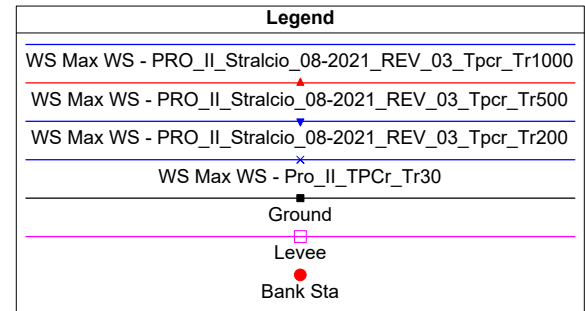
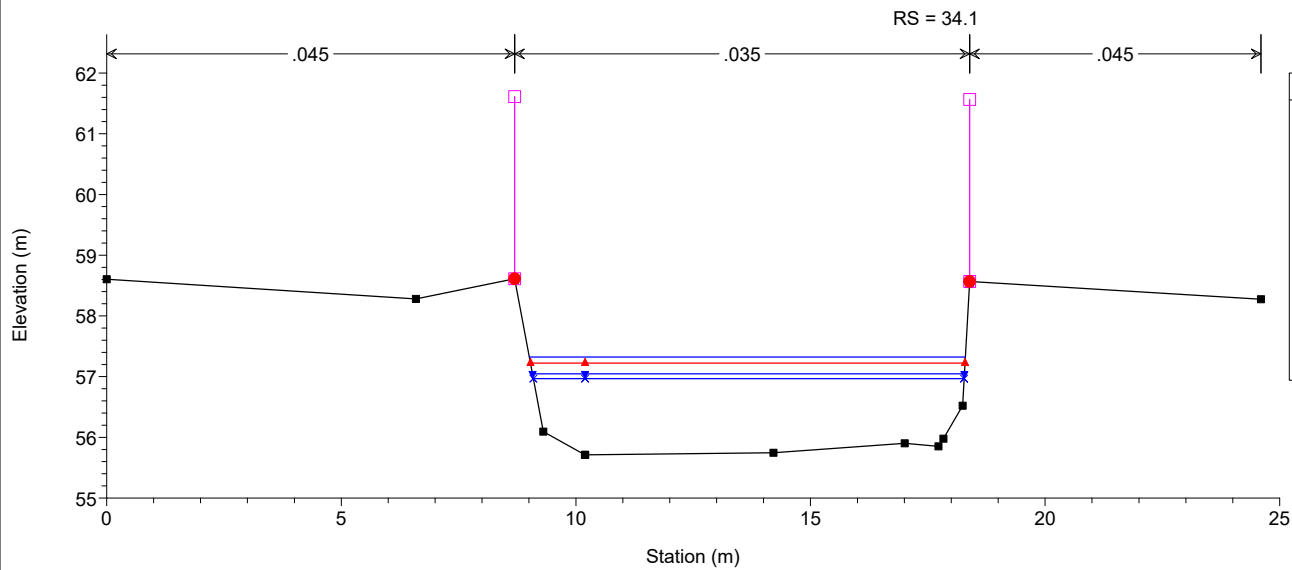
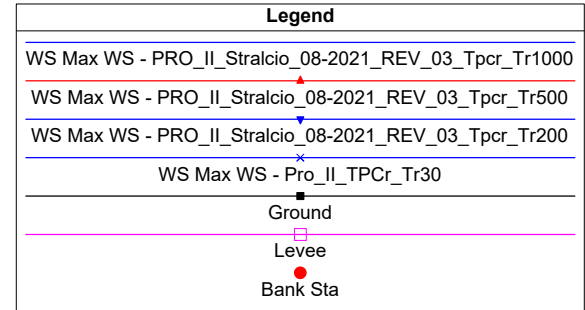
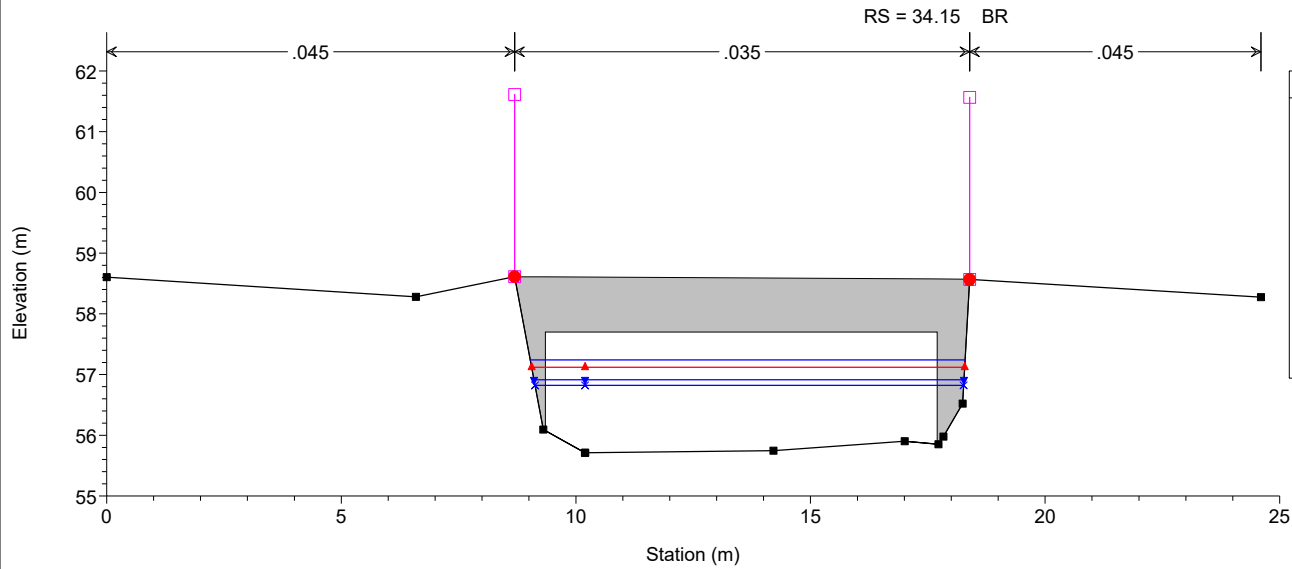


RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



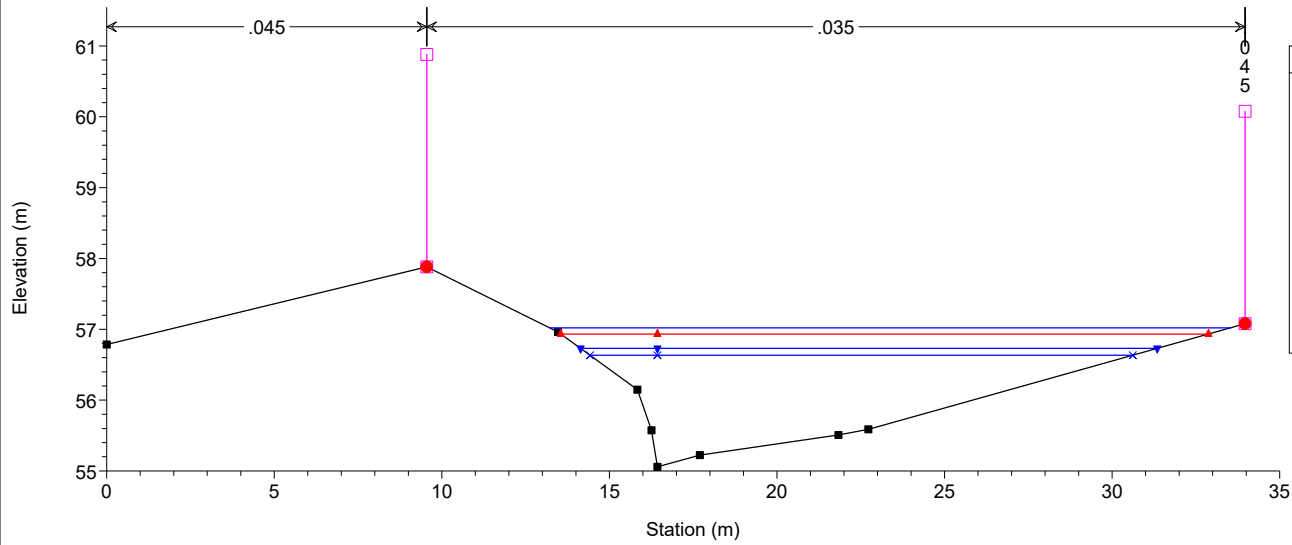






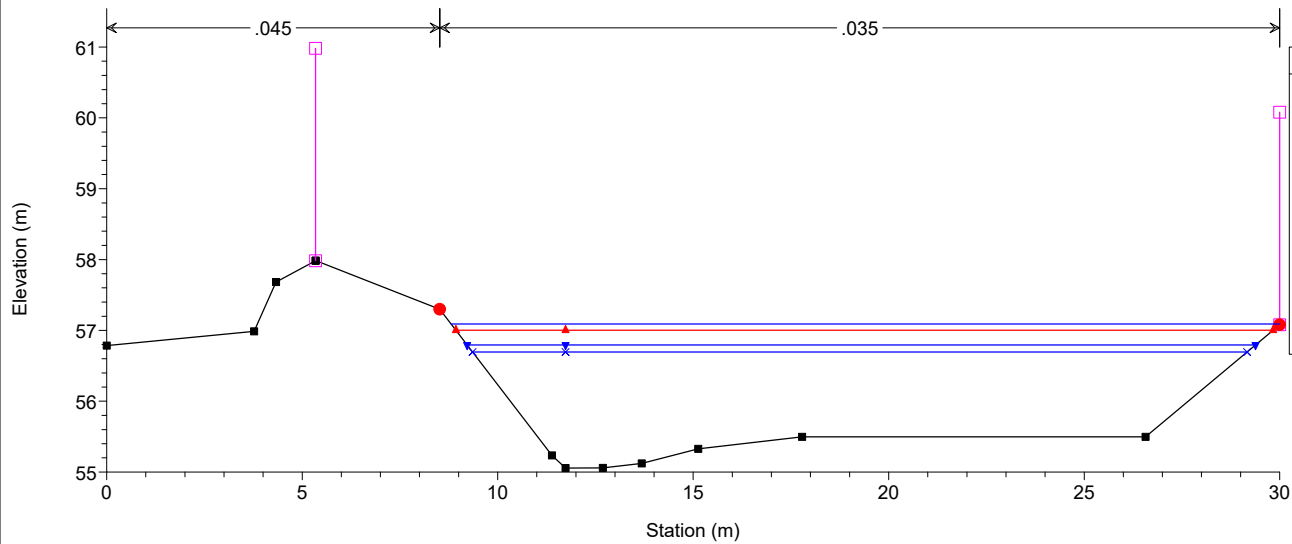


RS = 33

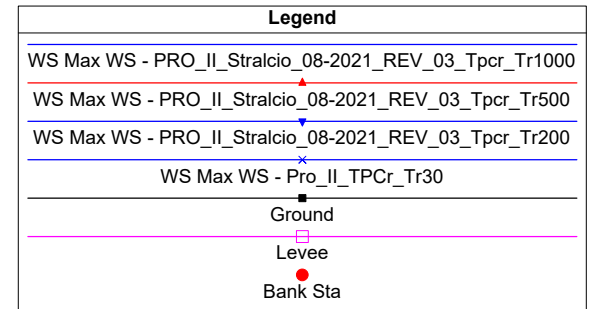
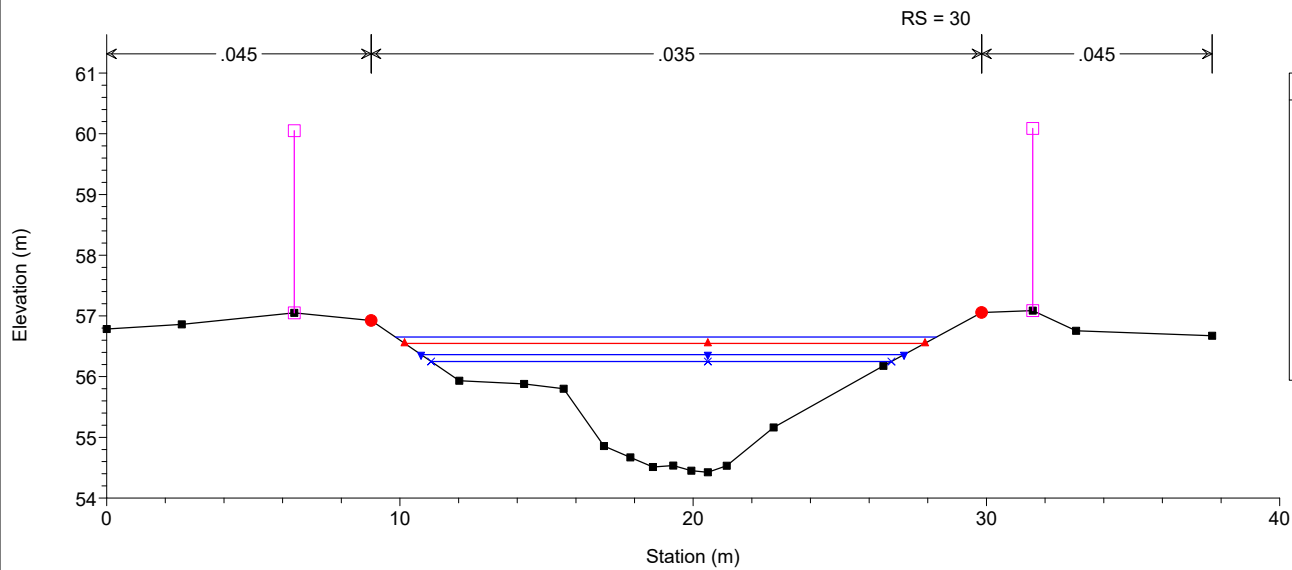
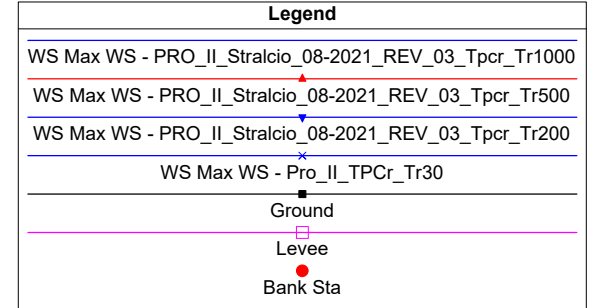
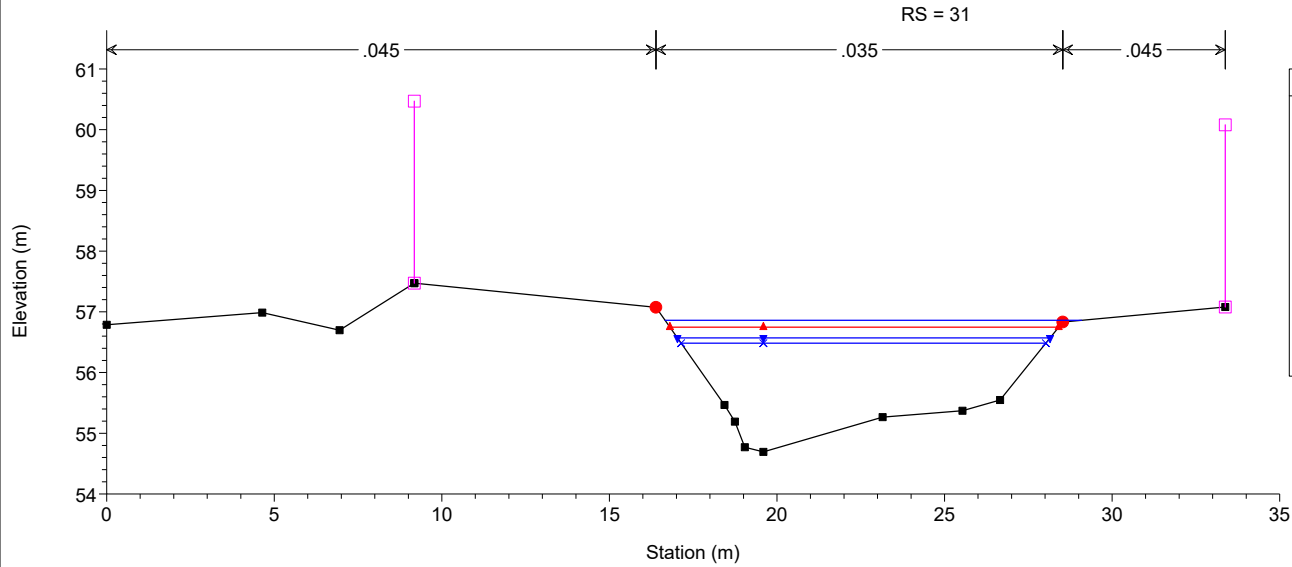


Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	—
Bank Sta	●

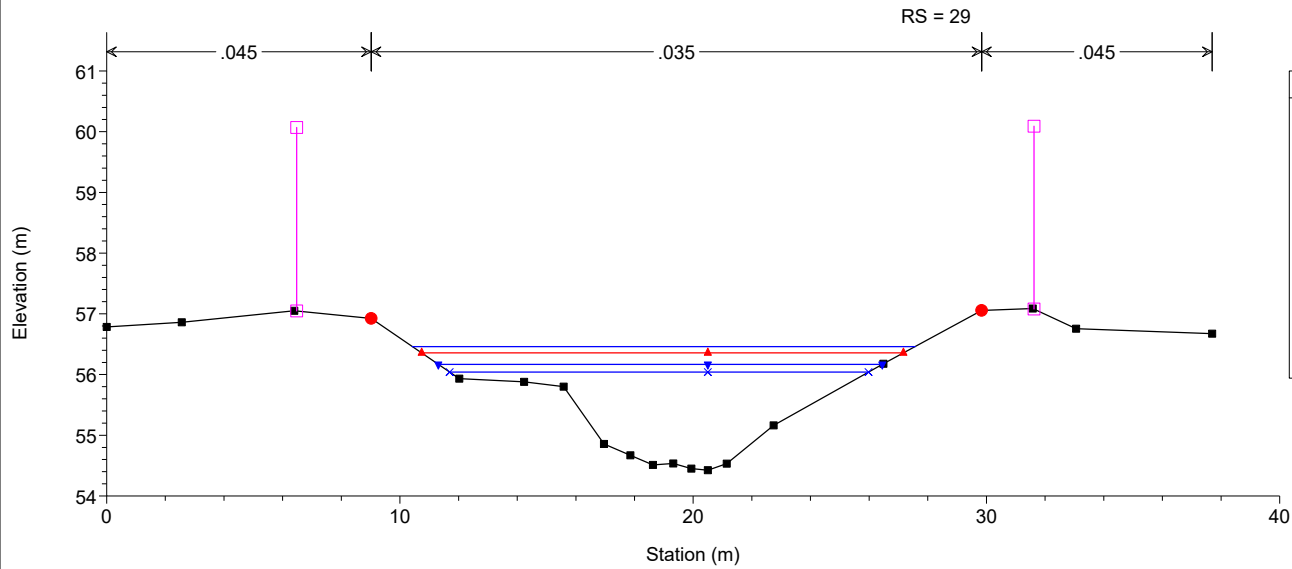
RS = 32



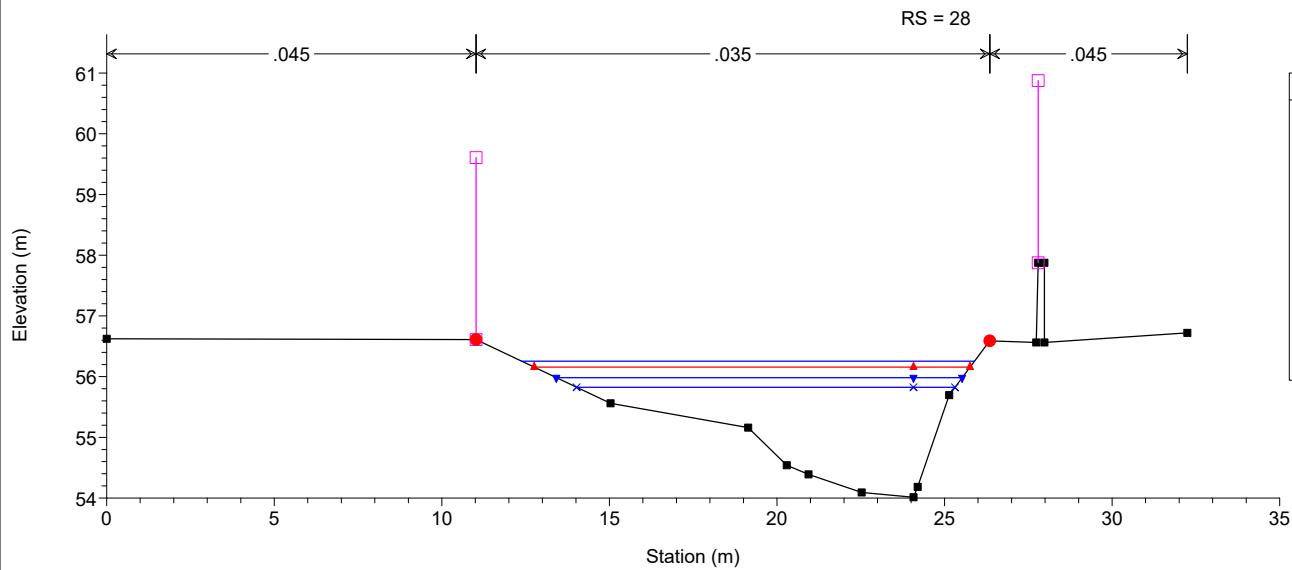
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	—
Bank Sta	●



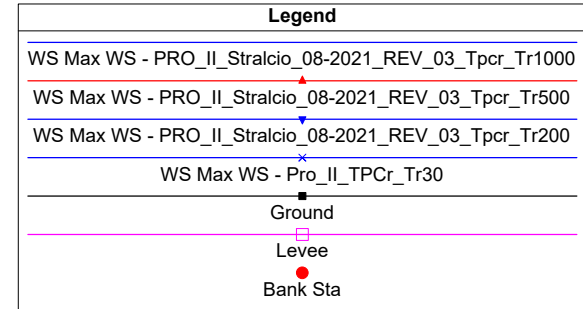
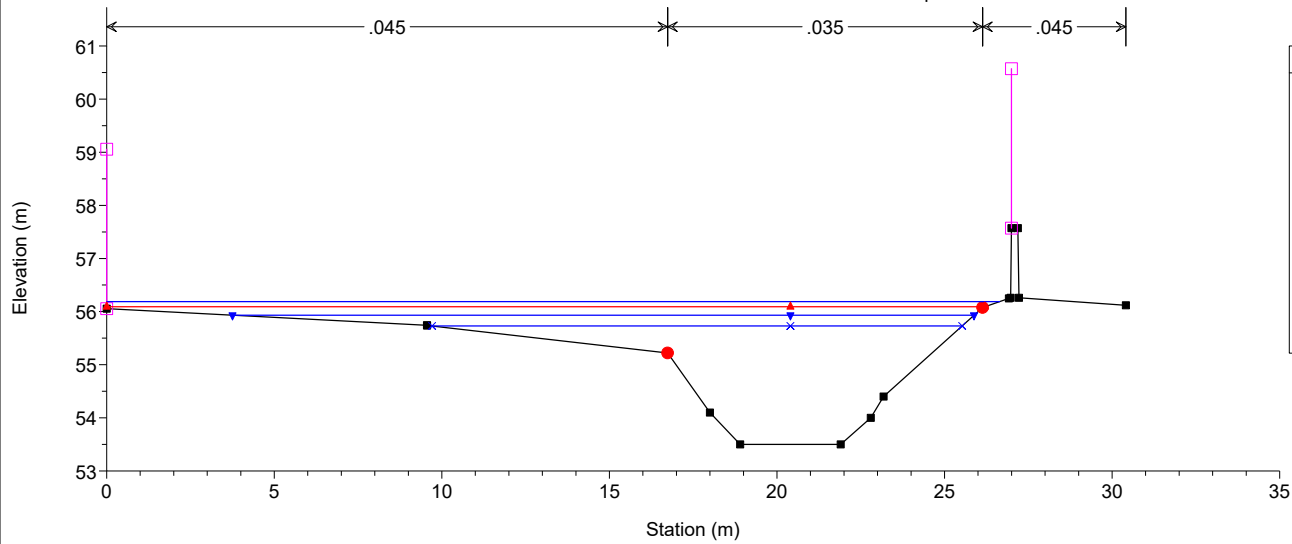
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



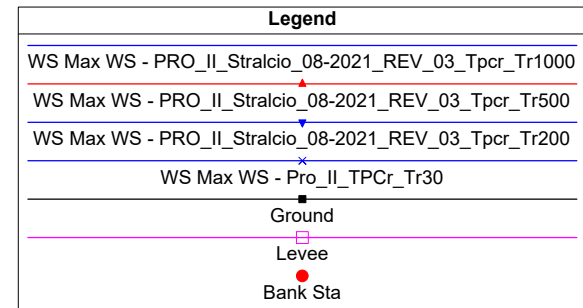
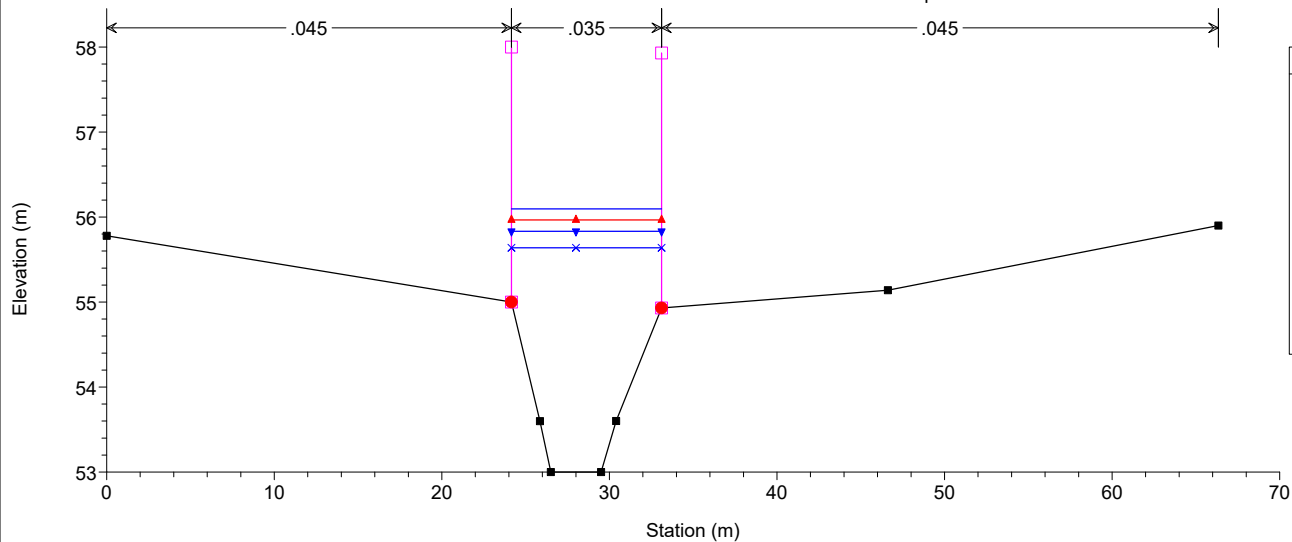
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



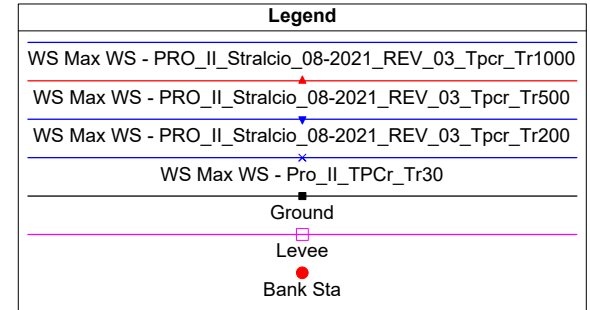
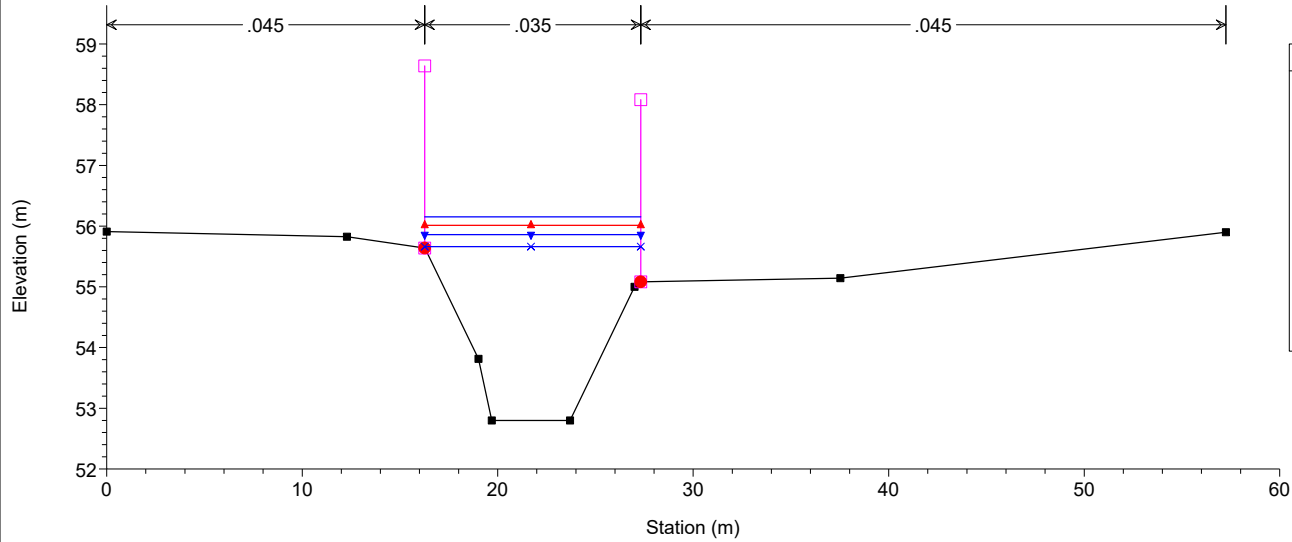
RS = 27 Riprofilatura PRO



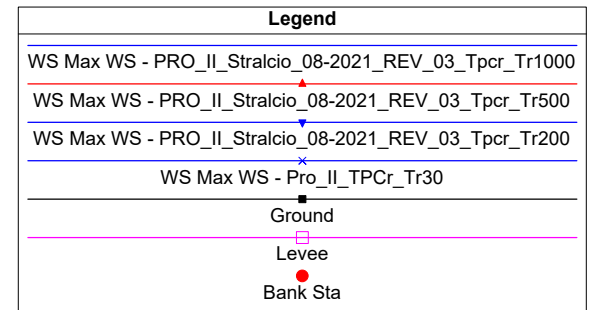
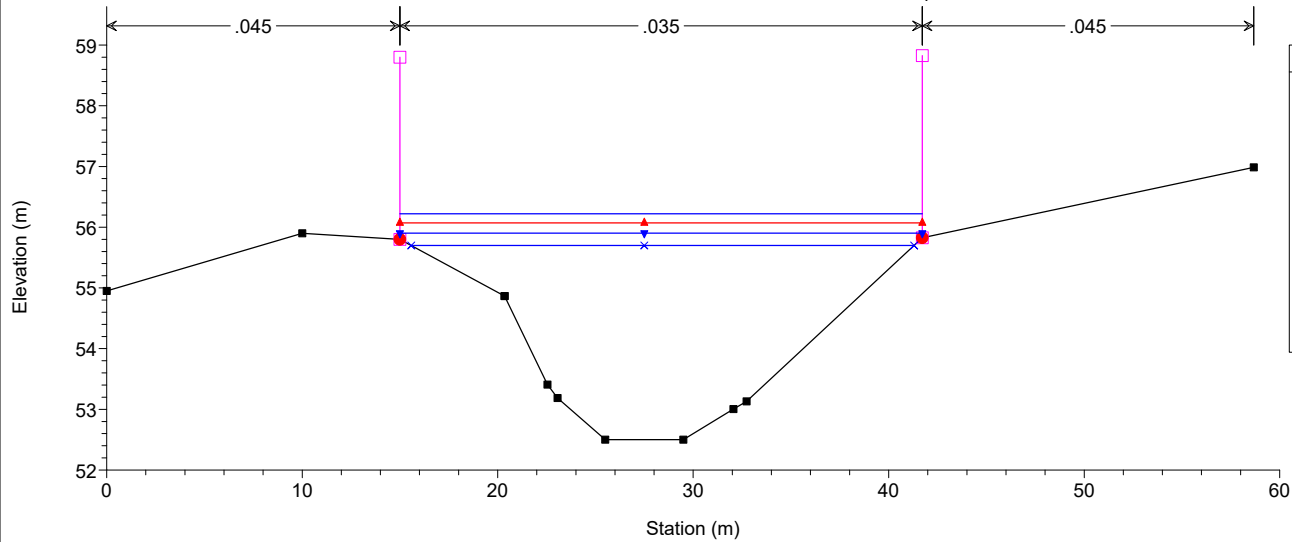
RS = 26 Riprofilatura PRO



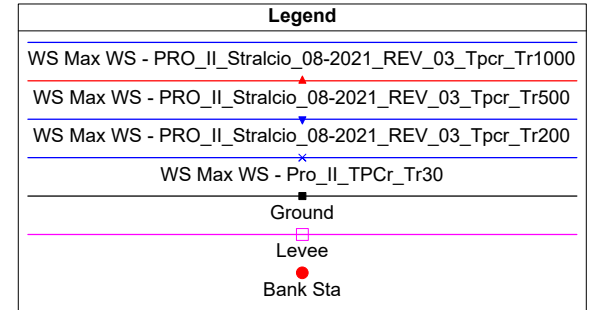
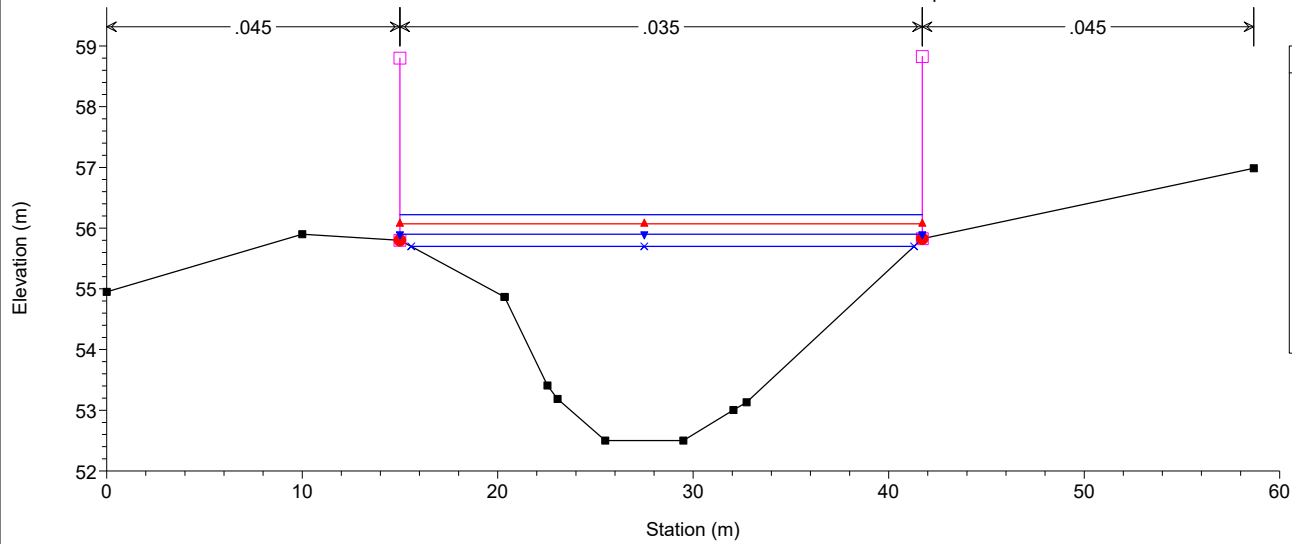
RS = 25 Riprofilatura PRO



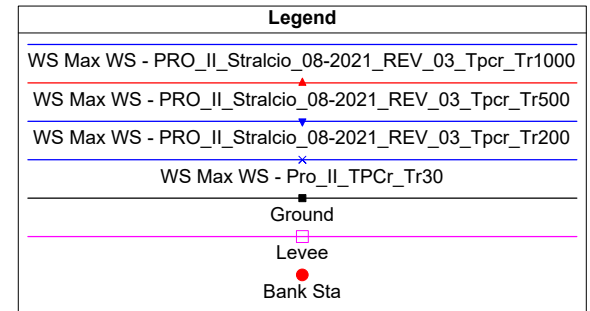
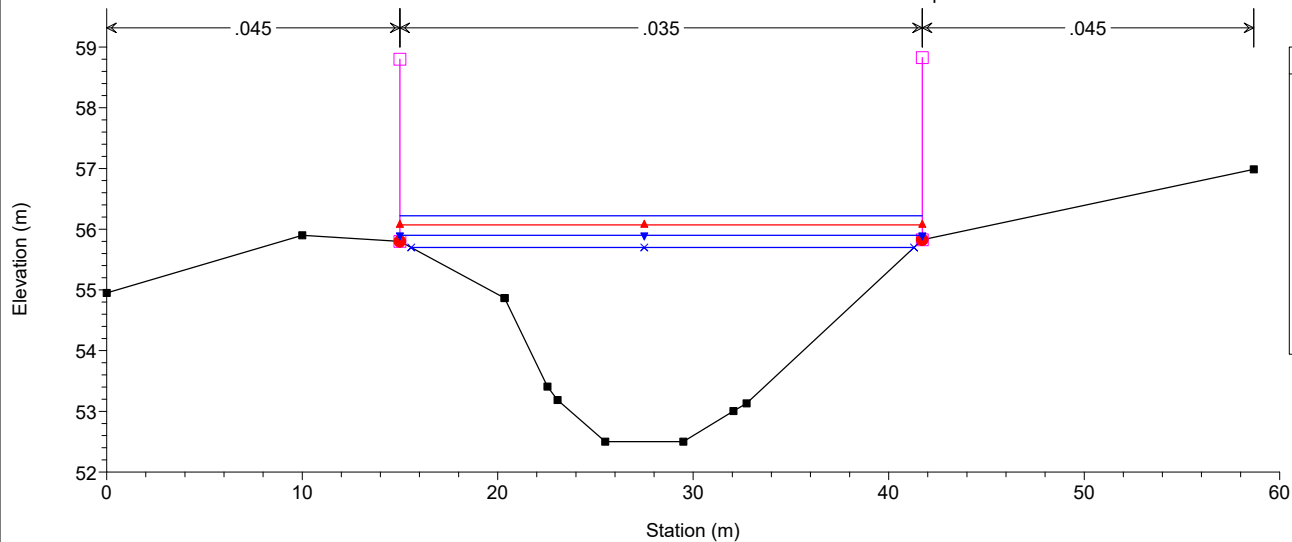
RS = 24 Riprofilatura PRO



RS = 23.5 Riprofilatura PRO



RS = 23.2 Riprofilatura PRO



HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS

Reach	River Sta	Profile	Plan	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
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	84.93	80.69	83.17	83.37	83.93	0.018530	3.87	22.54	28.94	1.21
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	80.64	80.69	83.13	83.33	83.87	0.018658	3.80	21.63	26.78	1.21
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	68.31	80.69	83.03	83.19	83.69	0.018286	3.61	18.93	19.96	1.18
Pietroso	97	Max WS	Pro_II_TPCr_Tr30	48.23	80.69	82.81	82.89	83.35	0.017168	3.25	14.86	17.45	1.12
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.04	79.87	82.74		82.85	0.002197	2.09	56.50	43.35	0.42
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.65	79.87	82.67		82.78	0.002115	2.02	53.87	43.02	0.41
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	68.29	79.87	82.51		82.66	0.003106	2.34	47.04	42.15	0.49
Pietroso	96	Max WS	Pro_II_TPCr_Tr30	48.22	79.87	82.33		82.44	0.002554	2.01	39.53	41.17	0.44
Pietroso	95.9			Lat Struct									
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.12	79.50	82.73	81.81	82.79	0.000893	1.46	70.94	43.06	0.29
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.59	79.50	82.67	81.77	82.73	0.000851	1.41	68.26	42.83	0.28
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.17	79.50	82.55	81.70	82.60	0.000777	1.30	63.32	42.39	0.27
Pietroso	95	Max WS	Pro_II_TPCr_Tr30	41.69	79.50	82.35	81.57	82.38	0.000690	1.16	54.64	41.62	0.25
Pietroso	94.9			Inl Struct									
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.12	79.30	81.70	81.85	82.27	0.011738	4.08	26.71	34.14	0.98
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.59	79.30	81.65	81.78	82.21	0.011726	4.00	24.96	33.27	0.98
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.17	79.30	81.55	81.69	82.10	0.011829	3.86	21.78	31.61	0.97
Pietroso	94.8	Max WS	Pro_II_TPCr_Tr30	41.69	79.30	81.38	81.41	81.87	0.011359	3.52	16.97	25.73	0.94
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.12	79.05	81.47	81.50	81.90	0.009360	3.75	30.04	33.89	0.87
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.59	79.05	81.41	81.46	81.84	0.009558	3.71	28.02	33.39	0.87
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.17	79.05	81.30	81.37	81.73	0.009952	3.64	24.45	32.49	0.88
Pietroso	94	Max WS	Pro_II_TPCr_Tr30	41.69	79.05	81.12	81.23	81.57	0.010914	3.55	18.83	31.02	0.91
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.11	78.37	80.79	81.06	81.76	0.016570	4.93	19.29	19.39	1.18
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.58	78.37	80.73	80.99	81.66	0.016660	4.82	18.05	19.01	1.18
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.14	78.37	80.61	80.86	81.50	0.016956	4.63	15.81	18.29	1.17
Pietroso	93	Max WS	Pro_II_TPCr_Tr30	41.68	78.37	80.41	80.66	81.22	0.017589	4.31	12.30	16.22	1.17
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.11	78.30	80.59	80.59	81.14	0.007573	3.69	25.51	22.70	0.83
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.58	78.30	80.53	80.52	81.05	0.007444	3.58	24.09	22.34	0.82
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.12	78.30	80.41	80.39	80.89	0.007300	3.40	21.41	21.65	0.80
Pietroso	92	Max WS	Pro_II_TPCr_Tr30	41.66	78.30	80.20	80.14	80.63	0.007154	3.11	17.11	20.24	0.78
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.08	77.48	80.45	80.43	80.88	0.007668	3.78	30.79	32.58	0.78
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.57	77.48	80.38	80.37	80.81	0.007831	3.74	28.43	31.08	0.79
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.03	77.48	80.23	80.25	80.67	0.008377	3.70	24.00	28.05	0.80
Pietroso	91	Max WS	Pro_II_TPCr_Tr30	41.46	77.48	80.01	80.04	80.44	0.008579	3.49	18.46	23.73	0.80
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.09	77.52	80.13	80.23	80.83	0.012079	4.48	22.03	18.58	0.94
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.57	77.52	80.05	80.15	80.74	0.012237	4.40	20.58	18.11	0.94

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.03	77.52	79.91	80.02	80.57	0.012433	4.25	18.08	17.27	0.94
Pietroso	90	Max WS	Pro_II_TPCr_Tr30	41.39	77.52	79.71	79.81	80.28	0.011827	3.87	14.75	16.09	0.90
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	70.05	77.08	80.07		80.17	0.001834	2.05	59.38	51.25	0.40
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.52	77.08	79.96		80.07	0.001984	2.07	53.84	48.67	0.42
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.99	77.08	79.68		79.82	0.002902	2.31	41.08	42.15	0.50
Pietroso	89	Max WS	Pro_II_TPCr_Tr30	42.71	77.08	79.45		79.59	0.003107	2.22	31.91	36.76	0.50
Pietroso	88.8		Lat Struct										
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.23	76.75	79.87		80.08	0.002899	2.73	44.78	32.06	0.52
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.84	76.75	79.76		79.96	0.002985	2.69	41.30	30.87	0.52
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	57.57	76.75	79.44		79.68	0.004043	2.88	31.86	27.45	0.59
Pietroso	88.3	Max WS	Pro_II_TPCr_Tr30	42.65	76.75	79.23		79.43	0.003529	2.54	26.51	25.36	0.55
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.23	76.59	79.63		80.06	0.005513	3.66	30.40	19.76	0.69
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.82	76.59	79.52		79.94	0.005507	3.57	28.38	19.16	0.69
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	53.83	76.59	79.19		79.61	0.006280	3.49	22.32	17.33	0.72
Pietroso	88	Max WS	Pro_II_TPCr_Tr30	42.64	76.59	79.04		79.38	0.005407	3.10	19.74	16.51	0.66
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.20	75.96	79.32		79.61	0.003075	2.38	32.74	21.52	0.52
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.71	75.96	79.24		79.50	0.002953	2.28	30.96	19.62	0.51
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	53.44	75.96	78.86		79.10	0.003384	2.17	24.59	14.35	0.53
Pietroso	87	Max WS	Pro_II_TPCr_Tr30	42.53	75.96	78.83		78.99	0.002241	1.76	24.19	14.22	0.43
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.23	75.91	79.40		79.56	0.001663	1.87	59.57	103.89	0.38
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.73	75.91	79.30		79.46	0.001766	1.88	49.76	86.90	0.39
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	53.41	75.91	78.88		79.07	0.002380	1.93	27.94	21.12	0.45
Pietroso	86	Max WS	Pro_II_TPCr_Tr30	42.51	75.91	78.85		78.97	0.001597	1.57	27.29	18.21	0.36
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.23	75.72	79.41		79.53	0.001618	1.69	69.11	127.14	0.38
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.73	75.72	79.30		79.43	0.001841	1.74	56.27	106.24	0.40
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	53.37	75.72	78.85		79.05	0.003363	1.99	27.61	24.42	0.51
Pietroso	85	Max WS	Pro_II_TPCr_Tr30	42.49	75.72	78.82		78.96	0.002218	1.61	27.10	23.87	0.42
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.23	75.61	79.38		79.52	0.001735	1.92	68.67	114.64	0.38
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.73	75.61	79.26		79.43	0.001964	1.99	56.55	98.68	0.40
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	42.68	75.61	78.76		78.94	0.002398	1.90	24.68	28.06	0.42
Pietroso	84	Max WS	Pro_II_TPCr_Tr30	42.47	75.61	78.76		78.94	0.002373	1.89	24.69	28.10	0.42
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	71.13	75.57	79.29		79.54	0.003737	2.52	46.73	80.62	0.50
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.72	75.57	79.16	78.59	79.50	0.004944	2.81	37.30	67.16	0.57
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	53.29	75.57	78.69	78.05	79.21	0.008578	3.21	17.26	18.86	0.72
Pietroso	83.2	Max WS	Pro_II_TPCr_Tr30	44.25	75.57	78.64		79.03	0.006417	2.74	16.48	16.10	0.62
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	71.12	75.52	79.36	78.20	79.48	0.001761	1.93	69.34	100.95	0.34



HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.72	75.52	79.23	78.14	79.40	0.002306	2.15	57.30	89.03	0.38
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	53.29	75.52	78.69	77.77	79.07	0.005000	2.80	22.83	38.03	0.54
Pietroso	83.18	Max WS	Pro_II_TPCr_Tr30	44.21	75.52	78.66	77.54	78.94	0.003679	2.38	21.03	28.19	0.47
Pietroso	83.15			Bridge									
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	64.60	75.52	78.12	78.04	79.13	0.015138	4.45	14.53	6.54	0.95
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	64.14	75.52	78.11	78.03	79.11	0.015071	4.43	14.48	6.54	0.95
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	58.76	75.52	78.11		78.95	0.012715	4.07	14.45	6.54	0.87
Pietroso	83.1	Max WS	Pro_II_TPCr_Tr30	44.40	75.52	77.91		78.49	0.009325	3.36	13.20	6.46	0.75
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	58.75	75.50	78.26	77.68	78.79	0.006899	3.23	18.17	7.78	0.68
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	58.74	75.50	78.26	77.68	78.79	0.006897	3.23	18.17	7.78	0.68
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	58.74	75.50	78.26	77.68	78.79	0.006899	3.23	18.17	7.78	0.68
Pietroso	83	Max WS	Pro_II_TPCr_Tr30	44.40	75.50	78.06	77.35	78.43	0.005013	2.67	16.65	7.63	0.58
Pietroso	82.5			Inl Struct									
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.18	74.65	77.08	77.00	77.82	0.011275	3.82	19.69	11.74	0.94
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.64	74.65	77.00		77.68	0.010697	3.66	18.77	11.49	0.91
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	58.45	74.65	76.85		77.45	0.010024	3.42	17.09	11.03	0.88
Pietroso	82	Max WS	Pro_II_TPCr_Tr30	44.32	74.65	76.66		77.11	0.008119	2.94	15.07	10.46	0.78
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	75.18	74.58	76.93	77.04	77.78	0.011860	4.14	19.32	15.57	1.03
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.60	74.58	76.86	76.93	77.65	0.011607	3.97	18.19	14.99	1.01
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	58.40	74.58	76.71	76.75	77.42	0.011796	3.75	16.10	13.85	1.00
Pietroso	81	Max WS	Pro_II_TPCr_Tr30	44.31	74.58	76.51	76.49	77.08	0.011304	3.33	13.51	12.30	0.96
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	58.58	74.47	76.66	76.69	77.34	0.009323	3.99	18.43	15.04	0.92
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	49.89	74.47	76.51	76.52	77.14	0.009233	3.77	16.34	14.25	0.91
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	58.18	74.47	76.09	76.68	77.93	0.036820	6.28	10.79	11.92	1.73
Pietroso	80	Max WS	Pro_II_TPCr_Tr30	44.29	74.47	75.90	76.42	77.51	0.038262	5.78	8.63	10.87	1.72
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	43.07	73.60	76.73		76.83	0.001012	1.41	31.26	18.33	0.30
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	35.50	73.60	76.59		76.67	0.000839	1.25	28.85	15.76	0.27
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	31.00	73.60	75.85		75.98	0.001944	1.61	19.25	11.49	0.40
Pietroso	79	Max WS	Pro_II_TPCr_Tr30	44.20	73.60	75.51		75.92	0.007132	2.84	15.56	10.57	0.75
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	46.00	73.69	76.79		76.81	0.000229	0.81	91.14	69.32	0.16
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	39.88	73.69	76.64		76.66	0.000239	0.80	80.50	68.40	0.16
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	30.94	73.69	75.86		75.95	0.001162	1.37	29.78	50.18	0.33
Pietroso	78	Max WS	Pro_II_TPCr_Tr30	44.08	73.69	75.34	75.26	75.79	0.008815	3.00	15.31	15.19	0.86
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	45.99	72.75	76.80		76.81	0.000155	0.71	114.45	72.15	0.12
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	39.88	72.75	76.64		76.65	0.000148	0.68	103.68	67.88	0.12
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	30.91	72.75	75.89		75.91	0.000471	1.02	56.80	58.47	0.20

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	77	Max WS	Pro_II_TPCr_Tr30	44.05	72.75	75.15	75.00	75.95	0.013821	4.39	16.39	37.52	1.04
Pietroso	76	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.99	72.56	76.79		76.81	0.000162	0.76	111.70	76.68	0.13
Pietroso	76	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	39.87	72.56	76.64		76.65	0.000159	0.73	100.23	72.13	0.13
Pietroso	76	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	30.88	72.56	75.88		75.91	0.000424	1.00	53.84	51.93	0.20
Pietroso	76	Max WS	Pro_II_TPCr_Tr30	44.02	72.56	75.05	75.00	75.60	0.009132	3.59	16.38	20.42	0.87
Pietroso	75	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.90	72.78	76.80		76.80	0.000064	0.45	197.36	209.09	0.08
Pietroso	75	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	39.87	72.78	76.64		76.65	0.000070	0.46	166.24	192.86	0.09
Pietroso	75	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	30.85	72.78	75.88		75.90	0.000278	0.74	62.44	62.05	0.16
Pietroso	75	Max WS	Pro_II_TPCr_Tr30	43.96	72.78	74.80	74.82	75.34	0.013664	3.26	13.51	13.23	1.02
Pietroso	74	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.86	72.23	76.80		76.80	0.000015	0.26	369.77	228.67	0.04
Pietroso	74	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	39.90	72.23	76.65		76.65	0.000015	0.25	335.17	219.25	0.04
Pietroso	74	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.19	72.23	75.88		75.89	0.000045	0.38	186.00	172.88	0.06
Pietroso	74	Max WS	Pro_II_TPCr_Tr30	26.95	72.23	74.48		74.55	0.001754	1.65	31.31	50.61	0.37
Pietroso	73	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.82	72.14	76.80		76.80	0.000007	0.18	487.99	242.07	0.03
Pietroso	73	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	39.89	72.14	76.65		76.65	0.000006	0.17	450.98	236.97	0.03
Pietroso	73	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.18	72.14	75.88		75.89	0.000015	0.24	280.31	211.88	0.04
Pietroso	73	Max WS	Pro_II_TPCr_Tr30	27.53	72.14	74.50		74.51	0.000129	0.49	89.44	74.62	0.11
Pietroso	72	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.80	71.72	76.80		76.80	0.000003	0.14	603.61	237.71	0.02
Pietroso	72	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	39.88	71.72	76.65		76.65	0.000003	0.13	566.91	237.18	0.02
Pietroso	72	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.18	71.72	75.89		75.89	0.000006	0.16	387.86	230.19	0.03
Pietroso	72	Max WS	Pro_II_TPCr_Tr30	27.52	71.72	74.50		74.51	0.000043	0.32	131.64	83.60	0.07
Pietroso	71	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.80	71.50	76.80		76.80	0.000003	0.13	613.12	214.52	0.02
Pietroso	71	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	39.90	71.50	76.65		76.65	0.000002	0.12	580.01	214.03	0.02
Pietroso	71	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.19	71.50	75.89		75.89	0.000004	0.14	418.27	210.82	0.02
Pietroso	71	Max WS	Pro_II_TPCr_Tr30	27.52	71.50	74.50		74.51	0.000051	0.37	151.27	138.81	0.07
Pietroso	70	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.78	70.78	76.80		76.80	0.000003	0.15	583.30	213.82	0.02
Pietroso	70	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.08	70.78	76.65		76.65	0.000003	0.14	550.35	212.58	0.02
Pietroso	70	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.18	70.78	75.88		75.89	0.000005	0.17	391.03	206.24	0.02
Pietroso	70	Max WS	Pro_II_TPCr_Tr30	27.47	70.78	74.50		74.51	0.000074	0.50	131.86	140.21	0.09
Pietroso	69	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.79	70.43	76.80		76.80	0.000003	0.13	606.69	228.83	0.02
Pietroso	69	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.00	70.43	76.65		76.65	0.000002	0.13	571.42	227.59	0.02
Pietroso	69	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.16	70.43	75.88		75.89	0.000004	0.15	400.79	219.40	0.02
Pietroso	69	Max WS	Pro_II_TPCr_Tr30	27.47	70.43	74.50		74.51	0.000048	0.39	127.36	147.97	0.07
Pietroso	68	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.79	70.19	76.80		76.80	0.000003	0.14	589.56	218.20	0.02
Pietroso	68	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.08	70.19	76.65		76.65	0.000003	0.14	556.03	216.60	0.02
Pietroso	68	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.14	70.19	75.88		75.89	0.000004	0.16	394.26	208.68	0.02
Pietroso	68	Max WS	Pro_II_TPCr_Tr30	27.47	70.19	74.50		74.50	0.000046	0.42	134.38	159.33	0.07

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	67	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.79	70.19	76.80		76.80	0.000003	0.15	565.40	209.02	0.02
Pietroso	67	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.08	70.19	76.65		76.65	0.000003	0.14	533.30	207.17	0.02
Pietroso	67	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.14	70.19	75.88		75.89	0.000004	0.16	379.17	198.02	0.02
Pietroso	67	Max WS	Pro_II_TPCr_Tr30	27.47	70.19	74.50		74.50	0.000044	0.41	135.21	146.99	0.07
Pietroso	66	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.79	69.83	76.80		76.80	0.000003	0.14	556.95	207.65	0.02
Pietroso	66	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.07	69.83	76.65		76.65	0.000003	0.13	525.01	205.73	0.02
Pietroso	66	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.11	69.83	75.88		75.89	0.000004	0.15	372.16	196.26	0.02
Pietroso	66	Max WS	Pro_II_TPCr_Tr30	27.47	69.83	74.50		74.50	0.000031	0.32	130.64	126.13	0.06
Pietroso	65	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.78	69.54	76.80		76.80	0.000002	0.11	735.21	234.66	0.01
Pietroso	65	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.07	69.54	76.65		76.65	0.000001	0.10	699.04	233.44	0.01
Pietroso	65	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.14	69.54	75.88		75.89	0.000002	0.11	523.81	227.42	0.02
Pietroso	65	Max WS	Pro_II_TPCr_Tr30	27.47	69.54	74.50		74.50	0.000014	0.23	225.95	179.12	0.04
Pietroso	64	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.73	69.46	76.80		76.80	0.000001	0.10	803.12	236.13	0.01
Pietroso	64	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.07	69.46	76.65		76.65	0.000001	0.10	766.73	234.85	0.01
Pietroso	64	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.10	69.46	75.88		75.89	0.000001	0.10	590.51	228.58	0.01
Pietroso	64	Max WS	Pro_II_TPCr_Tr30	27.46	69.46	74.50		74.50	0.000008	0.21	282.48	207.99	0.03
Pietroso	63	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.72	68.53	76.80		76.80	0.000000	0.07	1151.79	259.94	0.01
Pietroso	63	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.05	68.53	76.65		76.65	0.000000	0.06	1111.70	258.79	0.01
Pietroso	63	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.09	68.53	75.88		75.88	0.000000	0.06	917.05	253.13	0.01
Pietroso	63	Max WS	Pro_II_TPCr_Tr30	27.46	68.53	74.50		74.50	0.000001	0.09	573.90	242.83	0.01
Pietroso	62	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.70	68.57	76.80		76.80	0.000000	0.05	1357.19	256.06	0.01
Pietroso	62	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.04	68.57	76.65		76.65	0.000000	0.05	1317.70	255.02	0.01
Pietroso	62	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.08	68.57	75.88		75.88	0.000000	0.04	1125.70	249.93	0.01
Pietroso	62	Max WS	Pro_II_TPCr_Tr30	27.45	68.57	74.50		74.50	0.000000	0.06	786.27	240.66	0.01
Pietroso	61	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.68	68.00	76.80		76.80	0.000000	0.06	1244.61	207.84	0.01
Pietroso	61	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	68.00	76.65		76.65	0.000000	0.05	1212.50	207.64	0.01
Pietroso	61	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.06	68.00	75.88		75.88	0.000000	0.05	1054.97	206.65	0.01
Pietroso	61	Max WS	Pro_II_TPCr_Tr30	27.44	68.00	74.50		74.50	0.000000	0.06	770.26	204.85	0.01
Pietroso	60.8	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.68	68.00	76.79	70.34	76.83	0.000034	0.90	138.99	204.69	0.10
Pietroso	60.8	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	68.00	76.64	70.17	76.67	0.000032	0.87	108.18	204.46	0.10
Pietroso	60.8	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.06	68.00	75.88	69.88	75.91	0.000033	0.82	37.90	203.32	0.10
Pietroso	60.8	Max WS	Pro_II_TPCr_Tr30	27.44	68.00	74.49	69.75	74.53	0.000050	0.89	30.97	201.24	0.11
Pietroso	60.5			Inl Struct									
Pietroso	59	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.68	67.80	69.57	70.08	71.13	0.019124	5.53	8.31	8.59	1.65
Pietroso	59	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	67.80	69.49	70.08	70.88	0.018169	5.21	7.69	7.08	1.60
Pietroso	59	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.06	67.80	69.35	69.72	70.45	0.015899	4.64	6.69	6.65	1.48

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	59	Max WS	Pro_II_TPCr_Tr30	27.44	67.80	69.28	69.58	70.27	0.015088	4.41	6.22	6.43	1.43
Pietroso	58.75	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.68	67.70	69.41	69.96	71.34	0.048806	6.30	8.35	14.47	1.86
Pietroso	58.75	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	67.70	69.33	69.91	71.12	0.047210	6.01	7.37	12.34	1.82
Pietroso	58.75	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.03	67.70	69.20	69.72	70.67	0.042665	5.38	5.99	9.02	1.71
Pietroso	58.75	Max WS	Pro_II_TPCr_Tr30	27.41	67.70	69.14	69.65	70.46	0.040973	5.10	5.46	7.45	1.66
Pietroso	58	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.68	66.79	69.07		69.22	0.004434	2.27	28.03	25.84	0.52
Pietroso	58	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	66.79	69.00		69.14	0.004088	2.13	26.37	25.53	0.50
Pietroso	58	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.82	66.79	68.88		68.99	0.003736	1.94	23.29	24.95	0.47
Pietroso	58	Max WS	Pro_II_TPCr_Tr30	28.12	66.79	68.84		68.93	0.003390	1.82	22.15	24.73	0.45
Pietroso	57	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.68	67.01	68.88	68.90	69.21	0.010207	3.11	21.63	33.83	0.89
Pietroso	57	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	67.01	68.82	68.84	69.13	0.010152	3.00	19.56	33.58	0.88
Pietroso	57	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.37	67.01	68.72	68.73	68.99	0.009948	2.79	16.10	33.15	0.86
Pietroso	57	Max WS	Pro_II_TPCr_Tr30	27.69	67.01	68.67	68.67	68.93	0.009841	2.69	14.43	29.34	0.85
Pietroso	56	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.68	66.65	68.69		68.97	0.009716	3.27	23.76	34.66	0.80
Pietroso	56	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	66.65	68.61	68.64	68.90	0.010474	3.28	21.01	33.99	0.83
Pietroso	56	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.18	66.65	68.47	68.55	68.80	0.012291	3.35	16.39	32.84	0.88
Pietroso	56	Max WS	Pro_II_TPCr_Tr30	27.52	66.65	68.41	68.51	68.77	0.013486	3.41	14.30	32.31	0.92
Pietroso	55	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.68	66.08	68.25	68.46	68.96	0.015315	4.12	15.45	22.75	1.01
Pietroso	55	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	66.08	68.16	68.39	68.88	0.016069	4.06	13.35	21.92	1.02
Pietroso	55	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.13	66.08	67.99	68.24	68.72	0.017313	3.92	9.79	20.43	1.04
Pietroso	55	Max WS	Pro_II_TPCr_Tr30	27.47	66.08	67.91	68.17	68.60	0.017220	3.77	8.32	13.78	1.03
Pietroso	54	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.68	65.75	67.85	67.98	68.59	0.013139	4.03	13.23	12.65	1.03
Pietroso	54	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	65.75	67.74	67.85	68.44	0.013221	3.86	11.93	11.98	1.02
Pietroso	54	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.11	65.75	67.56	67.64	68.16	0.013316	3.54	9.84	10.82	1.00
Pietroso	54	Max WS	Pro_II_TPCr_Tr30	27.45	65.75	67.48	67.54	68.03	0.013474	3.39	8.94	10.28	1.00
Pietroso	53	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.68	64.27	66.45	66.51	67.10	0.011080	3.65	13.93	13.79	0.92
Pietroso	53	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	64.27	66.35	66.38	66.95	0.011066	3.48	12.50	13.00	0.91
Pietroso	53	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.08	64.27	66.15	66.11	66.67	0.011141	3.18	10.11	11.55	0.89
Pietroso	53	Max WS	Pro_II_TPCr_Tr30	27.45	64.27	66.06	65.96	66.53	0.011160	3.04	9.10	10.42	0.88
Pietroso	52	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.67	61.70	63.85	64.00	64.60	0.013526	3.86	12.40	13.25	0.99
Pietroso	52	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	61.70	63.72	63.76	64.42	0.014139	3.73	10.87	9.93	1.00
Pietroso	52	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.07	61.70	63.48	63.47	64.09	0.014324	3.47	8.95	7.19	0.99
Pietroso	52	Max WS	Pro_II_TPCr_Tr30	27.45	61.70	63.37	63.35	63.94	0.014165	3.36	8.17	6.87	0.98
Pietroso	51	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	45.67	60.83	62.98		63.61	0.010855	3.50	13.06	8.40	0.90
Pietroso	51	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	40.03	60.83	62.86		63.43	0.010523	3.33	12.02	8.21	0.88
Pietroso	51	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	31.07	60.83	62.64		63.11	0.009905	3.02	10.28	7.88	0.85
Pietroso	51	Max WS	Pro_II_TPCr_Tr30	27.45	60.83	62.55		62.97	0.009562	2.88	9.54	7.74	0.83

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	50	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.67	60.57	62.78		63.24	0.007540	3.01	15.31	9.89	0.73
Pietroso	50	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	60.57	62.67		63.07	0.007019	2.80	14.32	9.36	0.70
Pietroso	50	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	60.57	62.50		62.80	0.006011	2.44	12.75	8.63	0.64
Pietroso	50	Max WS	Pro_II_TPCr_Tr30	27.45	60.57	62.42		62.68	0.005479	2.27	12.10	8.58	0.61
Pietroso	49	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.67	60.30	62.58		62.83	0.004509	2.19	20.85	15.91	0.61
Pietroso	49	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	60.30	62.49		62.71	0.004184	2.06	19.43	15.36	0.58
Pietroso	49	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	60.30	62.34		62.50	0.003533	1.81	17.13	14.43	0.53
Pietroso	49	Max WS	Pro_II_TPCr_Tr30	27.45	60.30	62.27		62.42	0.003195	1.69	16.20	14.01	0.50
Pietroso	48	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.67	60.21	62.22	62.36	62.91	0.019398	3.70	12.34	12.87	1.21
Pietroso	48	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	60.21	62.12	62.26	62.78	0.020062	3.59	11.14	12.46	1.21
Pietroso	48	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	60.21	61.96	62.08	62.54	0.021251	3.38	9.18	11.76	1.22
Pietroso	48	Max WS	Pro_II_TPCr_Tr30	27.45	60.21	61.89	62.01	62.44	0.021657	3.27	8.38	11.46	1.22
Pietroso	47	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.67	59.62	61.66		62.04	0.008811	2.76	16.57	15.02	0.84
Pietroso	47	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	59.62	61.54		61.91	0.009132	2.69	14.90	14.41	0.84
Pietroso	47	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	59.62	61.35		61.68	0.009664	2.55	12.20	13.36	0.85
Pietroso	47	Max WS	Pro_II_TPCr_Tr30	27.45	59.62	61.26		61.58	0.009877	2.47	11.10	12.91	0.85
Pietroso	46	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	58.98	61.19		61.63	0.008501	2.92	15.66	11.88	0.81
Pietroso	46	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.03	58.98	61.07		61.47	0.008634	2.82	14.22	11.52	0.81
Pietroso	46	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	58.98	60.85		61.21	0.008957	2.64	11.79	10.89	0.81
Pietroso	46	Max WS	Pro_II_TPCr_Tr30	27.45	58.98	60.76		61.09	0.009152	2.55	10.75	10.60	0.81
Pietroso	45	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	58.26	60.74		61.18	0.008179	2.94	15.54	11.46	0.81
Pietroso	45	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	58.26	60.61		61.02	0.008170	2.83	14.14	11.02	0.80
Pietroso	45	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	58.26	60.39		60.75	0.008171	2.64	11.79	10.25	0.78
Pietroso	45	Max WS	Pro_II_TPCr_Tr30	27.45	58.26	60.30		60.62	0.008165	2.54	10.79	9.91	0.78
Pietroso	44	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	57.88	60.26		60.76	0.009951	3.14	14.52	10.78	0.86
Pietroso	44	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	57.88	60.13		60.60	0.009982	3.04	13.18	10.32	0.86
Pietroso	44	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	57.88	59.90		60.31	0.010089	2.84	10.93	9.50	0.85
Pietroso	44	Max WS	Pro_II_TPCr_Tr30	27.45	57.88	59.80		60.18	0.010179	2.76	9.96	9.13	0.84
Pietroso	43.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	57.75	60.10		60.48	0.006365	2.75	16.61	11.29	0.72
Pietroso	43.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	57.75	59.97		60.32	0.006208	2.63	15.24	10.90	0.71
Pietroso	43.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	57.75	59.75		60.05	0.005943	2.41	12.87	10.16	0.68
Pietroso	43.2	Max WS	Pro_II_TPCr_Tr30	27.45	57.75	59.65		59.92	0.005814	2.32	11.85	9.80	0.67
Pietroso	43.18	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	57.74	60.19	59.66	60.44	0.003942	2.20	20.75	13.85	0.57
Pietroso	43.18	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	57.74	60.06	59.55	60.29	0.004018	2.11	18.93	13.81	0.58
Pietroso	43.18	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	57.74	59.82	59.35	60.02	0.004112	1.98	15.69	12.95	0.57
Pietroso	43.18	Max WS	Pro_II_TPCr_Tr30	27.45	57.74	59.71	59.26	59.90	0.004131	1.92	14.29	12.39	0.57

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	43.15			Bridge									
Pietroso	43.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	57.74	60.09		60.37	0.004893	2.36	19.34	13.82	0.64
Pietroso	43.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	57.74	59.95		60.22	0.005107	2.29	17.46	13.61	0.65
Pietroso	43.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	57.74	59.71		59.95	0.005301	2.18	14.28	12.39	0.65
Pietroso	43.1	Max WS	Pro_II_TPCr_Tr30	27.45	57.74	59.60		59.83	0.005395	2.12	12.95	11.84	0.65
Pietroso	42	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	57.36	59.61		60.19	0.010943	3.37	13.57	9.73	0.91
Pietroso	42	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	57.36	59.48		60.02	0.010929	3.24	12.34	9.35	0.90
Pietroso	42	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	57.36	59.25		59.72	0.010871	3.02	10.29	8.68	0.89
Pietroso	42	Max WS	Pro_II_TPCr_Tr30	27.45	57.36	59.15		59.59	0.010797	2.91	9.44	8.38	0.88
Pietroso	41.9			Lat Struct									
Pietroso	41.8			Lat Struct									
Pietroso	41	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	57.20	59.30		59.69	0.006215	2.75	16.60	10.95	0.71
Pietroso	41	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	57.20	59.18		59.53	0.006063	2.62	15.25	10.64	0.70
Pietroso	41	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	57.20	58.96		59.25	0.005795	2.40	12.96	10.09	0.68
Pietroso	41	Max WS	Pro_II_TPCr_Tr30	27.45	57.20	58.86		59.13	0.005695	2.30	11.95	9.85	0.67
Pietroso	40	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.66	56.94	59.13		59.51	0.006717	2.74	16.64	12.09	0.75
Pietroso	40	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	56.94	59.00		59.36	0.006723	2.65	15.12	11.62	0.74
Pietroso	40	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	56.94	58.77		59.08	0.006719	2.47	12.59	10.79	0.73
Pietroso	40	Max WS	Pro_II_TPCr_Tr30	27.45	56.94	58.67		58.96	0.006726	2.38	11.51	10.41	0.72
Pietroso	39	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	56.50	58.71		59.16	0.008099	2.97	15.36	11.21	0.81
Pietroso	39	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	56.50	58.58		59.00	0.008034	2.86	13.98	10.73	0.80
Pietroso	39	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	56.50	58.36		58.72	0.007754	2.64	11.75	9.92	0.78
Pietroso	39	Max WS	Pro_II_TPCr_Tr30	27.45	56.50	58.27		58.60	0.007542	2.53	10.84	9.57	0.76
Pietroso	38	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	56.38	58.49	58.45	59.07	0.011713	3.37	13.54	10.79	0.96
Pietroso	38	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	56.38	58.36	58.33	58.91	0.011939	3.28	12.19	10.28	0.96
Pietroso	38	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	56.38	58.14	58.11	58.63	0.012148	3.09	10.05	9.41	0.96
Pietroso	38	Max WS	Pro_II_TPCr_Tr30	27.45	56.38	58.05	58.01	58.51	0.012134	2.99	9.17	9.03	0.95
Pietroso	37	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	56.39	58.28		58.69	0.007779	2.82	16.20	12.95	0.80
Pietroso	37	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	56.39	58.14		58.54	0.008258	2.77	14.43	12.39	0.82
Pietroso	37	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	56.39	57.91		58.27	0.009004	2.66	11.69	11.47	0.84
Pietroso	37	Max WS	Pro_II_TPCr_Tr30	27.45	56.39	57.82		58.16	0.009313	2.59	10.58	11.07	0.85
Pietroso	36	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	55.85	58.17		58.40	0.003688	2.10	21.71	15.12	0.56
Pietroso	36	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	55.85	58.01		58.23	0.003979	2.08	19.28	14.53	0.58
Pietroso	36	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	55.85	57.74		57.94	0.004520	2.01	15.48	13.56	0.60
Pietroso	36	Max WS	Pro_II_TPCr_Tr30	27.45	55.85	57.62		57.82	0.004776	1.97	13.95	13.15	0.61

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	35	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	55.82	57.98		58.28	0.004663	2.42	18.87	12.59	0.63
Pietroso	35	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	55.82	57.81		58.10	0.004992	2.39	16.76	12.06	0.65
Pietroso	35	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	55.82	57.53		57.80	0.005561	2.30	13.49	11.20	0.67
Pietroso	35	Max WS	Pro_II_TPCr_Tr30	27.45	55.82	57.41		57.67	0.005801	2.25	12.19	10.83	0.68
Pietroso	34.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	55.66	57.81	57.33	58.17	0.005686	2.66	17.14	9.58	0.64
Pietroso	34.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	55.66	57.65	57.21	57.98	0.005717	2.56	15.64	9.47	0.64
Pietroso	34.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	55.66	57.38	57.02	57.67	0.005793	2.36	13.14	9.42	0.64
Pietroso	34.2	Max WS	Pro_II_TPCr_Tr30	27.45	55.66	57.27	56.94	57.53	0.005852	2.28	12.07	9.40	0.64
Pietroso	34.15		Bridge										
Pietroso	34.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	55.71	57.32		57.89	0.010686	3.33	13.69	9.29	0.88
Pietroso	34.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	55.71	57.22		57.72	0.010144	3.14	12.76	9.26	0.85
Pietroso	34.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.07	55.71	57.05		57.44	0.009254	2.79	11.12	9.20	0.81
Pietroso	34.1	Max WS	Pro_II_TPCr_Tr30	27.45	55.71	56.97		57.32	0.008866	2.64	10.40	9.18	0.79
Pietroso	34.09		Lat Struct										
Pietroso	34.08		Lat Struct										
Pietroso	33	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.65	55.06	57.02		57.28	0.006698	2.26	20.20	20.33	0.72
Pietroso	33	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	55.06	56.93		57.17	0.006523	2.17	18.45	19.33	0.71
Pietroso	33	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.06	55.06	56.73		56.96	0.007121	2.11	14.75	17.21	0.73
Pietroso	33	Max WS	Pro_II_TPCr_Tr30	27.44	55.06	56.63		56.86	0.007570	2.09	13.13	16.19	0.74
Pietroso	32	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.64	55.06	57.09		57.20	0.001717	1.48	30.92	21.19	0.39
Pietroso	32	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	55.06	57.00		57.10	0.001592	1.38	29.05	20.90	0.37
Pietroso	32	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.06	55.06	56.79		56.87	0.001543	1.25	24.79	20.16	0.36
Pietroso	32	Max WS	Pro_II_TPCr_Tr30	27.44	55.06	56.69		56.77	0.001556	1.20	22.78	19.81	0.36
Pietroso	31	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.64	54.69	56.86		57.24	0.006742	2.74	16.64	12.43	0.74
Pietroso	31	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.02	54.69	56.75		57.10	0.006597	2.61	15.31	11.60	0.73
Pietroso	31	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	31.05	54.69	56.57		56.85	0.005953	2.33	13.30	11.12	0.68
Pietroso	31	Max WS	Pro_II_TPCr_Tr30	27.42	54.69	56.48		56.73	0.005780	2.22	12.33	10.88	0.67
Pietroso	30	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.64	54.43	56.65		56.89	0.005094	2.17	21.06	18.45	0.65
Pietroso	30	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	40.00	54.43	56.55		56.77	0.005062	2.08	19.19	17.74	0.64
Pietroso	30	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.93	54.43	56.36		56.55	0.005014	1.93	16.01	16.47	0.63
Pietroso	30	Max WS	Pro_II_TPCr_Tr30	27.26	54.43	56.25		56.44	0.005476	1.92	14.18	15.69	0.65
Pietroso	29	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.64	54.43	56.46		56.80	0.008284	2.58	17.68	17.15	0.81
Pietroso	29	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	39.97	54.43	56.36		56.68	0.008513	2.51	15.92	16.43	0.81
Pietroso	29	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.91	54.43	56.17		56.46	0.009120	2.39	12.93	15.14	0.83
Pietroso	29	Max WS	Pro_II_TPCr_Tr30	27.09	54.43	56.04		56.35	0.010921	2.45	11.06	14.28	0.89

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

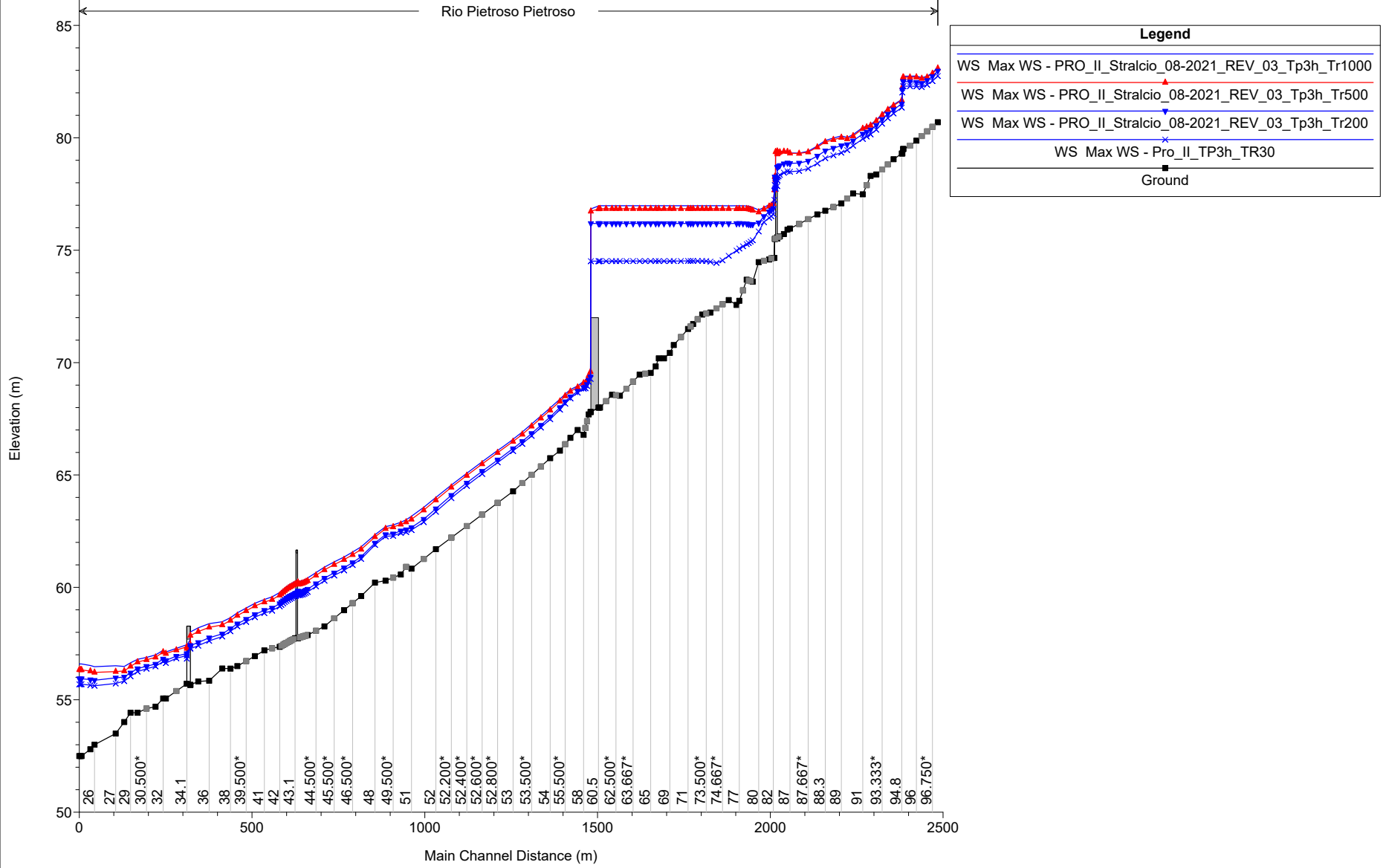
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pietroso	28	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.63	54.01	56.25		56.69	0.009701	2.91	15.69	13.52	0.86
Pietroso	28	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	39.88	54.01	56.16		56.55	0.009431	2.77	14.38	13.01	0.84
Pietroso	28	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.73	54.01	55.98		56.31	0.008778	2.52	12.22	12.11	0.80
Pietroso	28	Max WS	Pro_II_TPCr_Tr30	26.87	54.01	55.82		56.17	0.010607	2.59	10.36	11.29	0.86
Pietroso	27.9		Lat Struct										
Pietroso	27.8		Lat Struct										
Pietroso	27	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	45.50	53.50	56.19		56.41	0.003064	2.22	25.75	26.64	0.51
Pietroso	27	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	39.29	53.50	56.09		56.29	0.002899	2.09	23.21	26.20	0.50
Pietroso	27	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.59	53.50	55.93		56.10	0.002490	1.85	19.30	22.13	0.45
Pietroso	27	Max WS	Pro_II_TPCr_Tr30	26.65	53.50	55.73		55.90	0.002878	1.88	15.47	15.82	0.48
Pietroso	26	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	40.43	53.00	56.10		56.27	0.002049	1.87	21.63	8.96	0.38
Pietroso	26	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	35.99	53.00	55.97		56.12	0.001897	1.76	20.47	8.96	0.37
Pietroso	26	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.52	53.00	55.83		55.96	0.001620	1.58	19.27	8.96	0.34
Pietroso	26	Max WS	Pro_II_TPCr_Tr30	26.55	53.00	55.64		55.76	0.001604	1.51	17.54	8.96	0.35
Pietroso	25	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	39.27	52.80	56.15		56.26	0.001114	1.45	27.05	11.05	0.30
Pietroso	25	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	35.85	52.80	56.01		56.11	0.001100	1.41	25.51	11.05	0.30
Pietroso	25	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.52	52.80	55.86		55.94	0.000973	1.28	23.82	11.05	0.28
Pietroso	25	Max WS	Pro_II_TPCr_Tr30	26.56	52.80	55.66		55.74	0.000976	1.23	21.64	11.05	0.28
Pietroso	24	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	35.18	52.50	56.22		56.24	0.000152	0.58	60.62	26.72	0.12
Pietroso	24	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	35.52	52.50	56.07		56.09	0.000192	0.63	56.61	26.72	0.14
Pietroso	24	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.52	52.50	55.90		55.92	0.000184	0.59	52.08	26.72	0.13
Pietroso	24	Max WS	Pro_II_TPCr_Tr30	26.59	52.50	55.70		55.72	0.000189	0.57	46.74	25.73	0.13
Pietroso	23.5	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	34.63	52.50	56.22		56.24	0.000147	0.57	60.63	26.72	0.12
Pietroso	23.5	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	35.31	52.50	56.07		56.09	0.000190	0.62	56.60	26.72	0.14
Pietroso	23.5	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.52	52.50	55.90		55.92	0.000184	0.59	52.06	26.72	0.13
Pietroso	23.5	Max WS	Pro_II_TPCr_Tr30	26.59	52.50	55.70		55.72	0.000189	0.57	46.74	25.72	0.13
Pietroso	23.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	34.04	52.50	56.22		56.24	0.000142	0.56	60.65	26.72	0.12
Pietroso	23.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	35.08	52.50	56.07		56.09	0.000187	0.62	56.60	26.72	0.14
Pietroso	23.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	30.52	52.50	55.90		55.92	0.000184	0.59	52.05	26.72	0.13
Pietroso	23.2	Max WS	Pro_II_TPCr_Tr30	26.59	52.50	55.70		55.71	0.000189	0.57	46.71	25.71	0.13



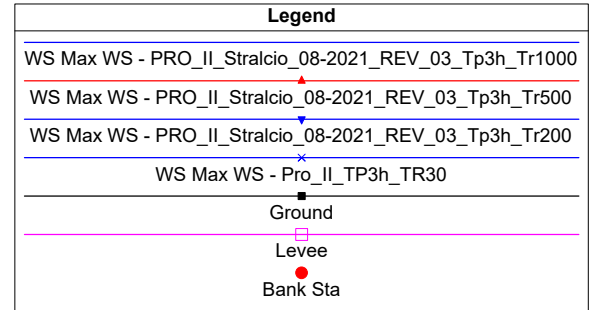
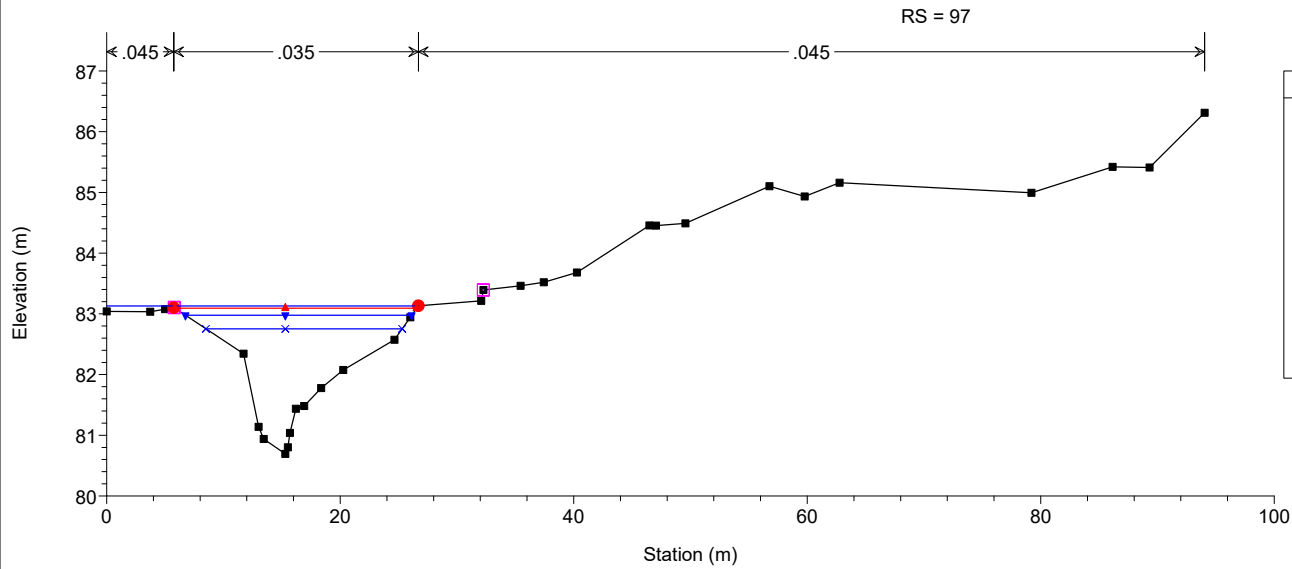
**Rio Pietroso – Tratto di monte (sez. 97 – sez. 23.2)**

**Verifiche idrauliche moto vario stato di progetto**

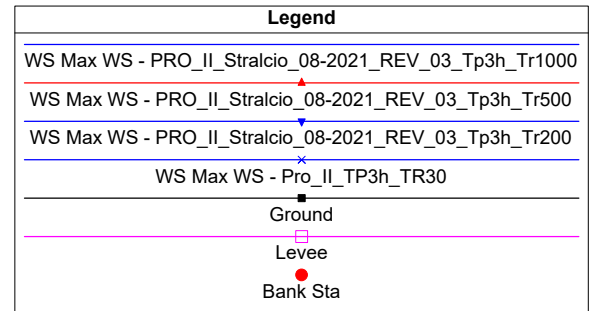
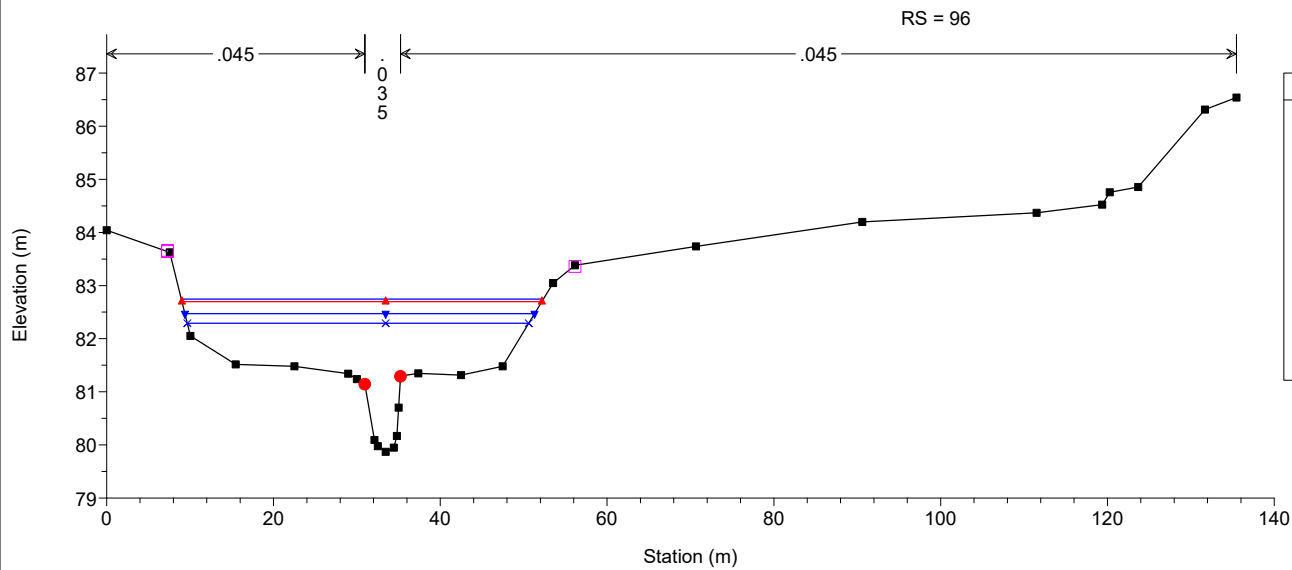
**Tr=1000, 500, 200 e Tr=30 anni – Tp 3 ore**



RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS

Reach	River Sta	Profile	Plan	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
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	77.92	80.69	83.13	83.31	83.82	0.017627	3.69	21.54	26.69	1.17
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	74.13	80.69	83.09	83.27	83.77	0.018011	3.66	20.26	20.71	1.18
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	62.96	80.69	82.98	83.12	83.60	0.017916	3.51	17.92	19.37	1.17
Pietroso	97	Max WS	Pro_II_TP3h_TR30	44.09	80.69	82.75	82.83	83.27	0.017095	3.17	13.90	16.80	1.11
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	76.07	79.87	82.74		82.86	0.002213	2.10	56.88	43.40	0.42
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	71.18	79.87	82.70		82.81	0.002148	2.05	54.92	43.15	0.41
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	62.96	79.87	82.47		82.61	0.002950	2.25	45.27	41.92	0.48
Pietroso	96	Max WS	Pro_II_TP3h_TR30	44.08	79.87	82.29		82.39	0.002434	1.93	37.74	40.93	0.43
Pietroso	95.9			Lat Struct									
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.86	79.50	82.74	81.81	82.80	0.000899	1.47	71.28	43.09	0.29
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.67	79.50	82.69	81.78	82.75	0.000867	1.43	69.28	42.92	0.28
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	51.54	79.50	82.50	81.67	82.55	0.000750	1.26	61.25	42.21	0.26
Pietroso	95	Max WS	Pro_II_TP3h_TR30	38.86	79.50	82.30	81.54	82.33	0.000671	1.13	52.62	41.44	0.24
Pietroso	94.9			Inl Struct									
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.86	79.30	81.70	81.86	82.28	0.011739	4.09	26.94	34.26	0.98
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.67	79.30	81.67	81.80	82.24	0.011731	4.03	25.63	33.60	0.98
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	51.54	79.30	81.51	81.65	82.05	0.011850	3.80	20.53	30.93	0.97
Pietroso	94.8	Max WS	Pro_II_TP3h_TR30	38.86	79.30	81.34	81.41	81.81	0.011243	3.44	16.01	24.91	0.93
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.85	79.05	81.48	81.51	81.91	0.009342	3.76	30.30	33.95	0.87
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.67	79.05	81.43	81.47	81.86	0.009474	3.73	28.79	33.58	0.87
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	51.54	79.05	81.26	81.34	81.69	0.010190	3.62	22.98	32.11	0.89
Pietroso	94	Max WS	Pro_II_TP3h_TR30	38.86	79.05	81.08	81.20	81.53	0.011218	3.53	17.54	30.67	0.91
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.85	78.37	80.80	81.08	81.77	0.016556	4.94	19.46	19.44	1.18
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.66	78.37	80.75	81.02	81.70	0.016636	4.87	18.52	19.15	1.18
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	51.54	78.37	80.56	80.82	81.43	0.017200	4.57	14.88	17.98	1.18
Pietroso	93	Max WS	Pro_II_TP3h_TR30	38.84	78.37	80.36	80.61	81.15	0.017743	4.23	11.54	15.59	1.17
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.85	78.30	80.60	80.59	81.15	0.007586	3.70	25.71	22.75	0.83
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.65	78.30	80.55	80.55	81.08	0.007498	3.62	24.62	22.47	0.82
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	51.54	78.30	80.35	80.35	80.82	0.007290	3.33	20.29	21.35	0.80
Pietroso	92	Max WS	Pro_II_TP3h_TR30	38.83	78.30	80.15	80.08	80.56	0.007094	3.03	16.13	19.40	0.77
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.84	77.48	80.46	80.44	80.89	0.007644	3.78	31.12	32.78	0.78
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.61	77.48	80.41	80.39	80.84	0.007703	3.74	29.41	31.71	0.78
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	51.53	77.48	80.17	80.20	80.62	0.008523	3.67	22.48	26.93	0.81
Pietroso	91	Max WS	Pro_II_TP3h_TR30	38.77	77.48	79.95	80.00	80.39	0.008863	3.48	17.12	22.56	0.81
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.84	77.52	80.14	80.24	80.85	0.012102	4.49	22.19	18.64	0.94
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.61	77.52	80.08	80.18	80.78	0.012227	4.44	21.09	18.28	0.94

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	50.97	77.52	79.87	79.96	80.48	0.011916	4.10	17.32	17.01	0.92
Pietroso	90	Max WS	Pro_II_TP3h_TR30	38.75	77.52	79.65	79.76	80.23	0.012251	3.86	13.80	15.73	0.91
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	70.83	77.08	80.08		80.19	0.001829	2.05	59.98	51.52	0.40
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.46	77.08	80.01		80.11	0.001883	2.04	56.32	49.84	0.41
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	52.71	77.08	79.65		79.79	0.002752	2.23	39.96	41.53	0.48
Pietroso	89	Max WS	Pro_II_TP3h_TR30	38.66	77.08	79.34		79.49	0.003466	2.26	28.04	34.22	0.53
Pietroso	88.8												
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	76.14	76.75	79.88		80.09	0.002917	2.74	45.10	32.17	0.52
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	71.04	76.75	79.81		80.01	0.002864	2.67	43.02	31.47	0.51
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	53.76	76.75	79.42		79.64	0.003619	2.72	31.53	27.32	0.56
Pietroso	88.3	Max WS	Pro_II_TP3h_TR30	39.91	76.75	79.09		79.33	0.004385	2.71	23.04	23.90	0.60
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	75.95	76.59	79.63		80.07	0.005553	3.68	30.53	19.80	0.70
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.97	76.59	79.58		79.99	0.005308	3.55	29.49	19.49	0.68
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	53.61	76.59	79.19		79.60	0.006249	3.48	22.29	17.32	0.72
Pietroso	88	Max WS	Pro_II_TP3h_TR30	39.89	76.59	78.86		79.27	0.007041	3.35	16.90	15.55	0.74
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	76.01	75.96	79.32		79.62	0.003138	2.41	32.75	21.55	0.53
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.83	75.96	79.31		79.57	0.002777	2.26	32.51	21.02	0.49
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	53.34	75.96	78.86		79.10	0.003364	2.17	24.60	14.37	0.53
Pietroso	87	Max WS	Pro_II_TP3h_TR30	39.85	75.96	78.49		78.70	0.003499	2.04	19.54	12.86	0.53
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	76.14	75.91	79.40		79.56	0.001696	1.89	59.76	104.16	0.39
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.85	75.91	79.38		79.53	0.001546	1.80	57.57	100.97	0.37
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	53.33	75.91	78.88		79.07	0.002367	1.93	27.97	21.30	0.45
Pietroso	86	Max WS	Pro_II_TP3h_TR30	39.85	75.91	78.51		78.68	0.002489	1.78	22.36	13.86	0.45
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	76.14	75.72	79.41		79.53	0.001647	1.71	69.38	127.55	0.38
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.85	75.72	79.39		79.50	0.001515	1.63	66.70	123.49	0.36
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	53.31	75.72	78.85		79.05	0.003346	1.98	27.65	24.46	0.51
Pietroso	85	Max WS	Pro_II_TP3h_TR30	39.85	75.72	78.45		78.65	0.003883	1.97	20.26	14.83	0.54
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	76.14	75.61	79.38		79.52	0.001771	1.94	68.81	114.81	0.38
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.85	75.61	79.36		79.49	0.001606	1.84	66.87	112.41	0.36
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	47.84	75.61	78.77		78.99	0.002960	2.11	24.95	29.39	0.47
Pietroso	84	Max WS	Pro_II_TP3h_TR30	39.85	75.61	78.35		78.61	0.004398	2.27	17.59	10.41	0.56
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	71.10	75.57	79.29		79.54	0.003750	2.53	46.61	80.46	0.50
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.85	75.57	79.28	78.59	79.54	0.003865	2.55	45.54	79.05	0.50
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	53.28	75.57	78.69	78.05	79.21	0.008566	3.21	17.28	18.90	0.72
Pietroso	83.2	Max WS	Pro_II_TP3h_TR30	39.85	75.57	78.11		78.64	0.009582	3.23	12.34	6.05	0.72
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	71.09	75.52	79.36	78.19	79.48	0.001766	1.93	69.19	100.81	0.34

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.85	75.52	79.34	78.18	79.47	0.001815	1.95	67.91	99.60	0.34
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	53.28	75.52	78.69	77.78	79.07	0.004993	2.80	22.85	38.09	0.54
Pietroso	83.18	Max WS	Pro_II_TP3h_TR30	39.85	75.52	78.24	77.42	78.58	0.004976	2.60	15.33	6.61	0.54
Pietroso	83.15			Bridge									
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	58.77	75.52	78.11		78.95	0.012717	4.07	14.45	6.54	0.87
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	64.60	75.52	78.12	78.04	79.12	0.015187	4.45	14.51	6.54	0.95
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	58.76	75.52	78.11		78.95	0.012715	4.07	14.45	6.54	0.87
Pietroso	83.1	Max WS	Pro_II_TP3h_TR30	39.83	75.52	77.77		78.30	0.009210	3.25	12.25	6.42	0.75
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	58.74	75.50	78.26	77.68	78.79	0.006900	3.23	18.17	7.78	0.68
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	58.78	75.50	78.27	77.68	78.80	0.006849	3.22	18.23	7.78	0.67
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	58.74	75.50	78.27	77.68	78.80	0.006850	3.22	18.22	7.78	0.67
Pietroso	83	Max WS	Pro_II_TP3h_TR30	39.80	75.50	77.91	77.24	78.24	0.004952	2.57	15.46	7.52	0.57
Pietroso	82.5			Inl Struct									
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	68.41	74.65	77.16		77.72	0.008291	3.33	20.57	11.96	0.81
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	60.30	74.65	77.07		77.55	0.007431	3.09	19.52	11.69	0.76
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	58.38	74.65	76.85		77.45	0.009969	3.41	17.11	11.04	0.88
Pietroso	82	Max WS	Pro_II_TP3h_TR30	39.85	74.65	76.60		76.99	0.007457	2.77	14.38	10.26	0.75
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	67.82	74.58	77.03	76.92	77.64	0.007848	3.50	20.88	16.33	0.84
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	60.06	74.58	76.95		77.48	0.007326	3.27	19.55	15.68	0.81
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	58.34	74.58	76.72	76.76	77.42	0.011695	3.74	16.14	13.87	1.00
Pietroso	81	Max WS	Pro_II_TP3h_TR30	39.85	74.58	76.45	76.41	76.96	0.011110	3.17	12.68	11.76	0.94
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	50.93	74.47	76.79		77.21	0.005394	3.18	20.44	15.75	0.71
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	58.65	74.47	76.69	76.69	77.34	0.008719	3.91	18.93	15.22	0.89
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.96	74.47	76.22	76.30	76.86	0.011578	3.74	12.37	12.63	0.98
Pietroso	80	Max WS	Pro_II_TP3h_TR30	39.85	74.47	75.83	76.32	77.35	0.038631	5.59	7.93	10.51	1.71
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	50.88	73.60	76.91		77.02	0.001082	1.54	34.84	22.09	0.31
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	44.63	73.60	76.77		76.87	0.001019	1.44	32.04	19.22	0.30
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.84	73.60	76.15		76.25	0.001361	1.44	22.86	12.32	0.34
Pietroso	79	Max WS	Pro_II_TP3h_TR30	39.85	73.60	75.45		75.81	0.006593	2.68	14.86	10.39	0.72
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	51.65	73.69	76.97		76.99	0.000202	0.80	103.81	70.39	0.15
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.82	73.69	76.84		76.86	0.000225	0.81	94.28	69.58	0.16
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.68	73.69	76.18		76.22	0.000514	1.02	49.80	65.70	0.23
Pietroso	78	Max WS	Pro_II_TP3h_TR30	39.85	73.69	75.27		75.69	0.008860	2.89	14.24	14.65	0.86
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.21	72.75	76.98		76.99	0.000152	0.73	127.76	77.11	0.12
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.80	72.75	76.84		76.85	0.000156	0.72	117.72	73.40	0.12
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.53	72.75	76.19		76.21	0.000239	0.78	75.01	61.16	0.15

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	77	Max WS	Pro_II_TP3h_TR30	39.83	72.75	75.07	75.00	75.73	0.012138	4.00	14.34	20.30	0.96
Pietroso	76	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.19	72.56	76.97		76.99	0.000156	0.77	125.82	81.94	0.13
Pietroso	76	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.79	72.56	76.84		76.85	0.000163	0.77	115.17	78.00	0.13
Pietroso	76	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.50	72.56	76.19		76.21	0.000243	0.82	70.62	58.77	0.15
Pietroso	76	Max WS	Pro_II_TP3h_TR30	39.83	72.56	74.98	74.99	75.48	0.008532	3.38	15.18	16.70	0.84
Pietroso	75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.46	72.78	76.98		76.98	0.000056	0.44	236.17	227.78	0.08
Pietroso	75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.77	72.78	76.84		76.85	0.000063	0.45	206.89	213.83	0.08
Pietroso	75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.43	72.78	76.19		76.20	0.000149	0.59	89.28	141.83	0.12
Pietroso	75	Max WS	Pro_II_TP3h_TR30	38.99	72.78	74.75	74.72	75.22	0.012497	3.03	12.86	12.99	0.97
Pietroso	74	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	55.79	72.23	76.98		76.98	0.000017	0.28	411.15	239.44	0.04
Pietroso	74	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.68	72.23	76.84		76.85	0.000015	0.26	380.15	231.42	0.04
Pietroso	74	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.39	72.23	76.19		76.19	0.000024	0.29	241.94	191.59	0.05
Pietroso	74	Max WS	Pro_II_TP3h_TR30	26.99	72.23	74.49		74.56	0.001654	1.61	32.20	51.32	0.36
Pietroso	73	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	55.71	72.14	76.98		76.98	0.000008	0.20	531.38	247.91	0.03
Pietroso	73	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.66	72.14	76.84		76.85	0.000007	0.18	498.94	243.56	0.03
Pietroso	73	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.34	72.14	76.19		76.19	0.000009	0.19	346.90	222.01	0.03
Pietroso	73	Max WS	Pro_II_TP3h_TR30	27.57	72.14	74.52		74.53	0.000125	0.48	90.65	75.02	0.11
Pietroso	72	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	55.23	71.72	76.98		76.98	0.000004	0.15	645.83	238.32	0.02
Pietroso	72	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.61	71.72	76.84		76.85	0.000003	0.14	614.33	237.87	0.02
Pietroso	72	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.41	71.72	76.19		76.19	0.000004	0.13	459.70	235.61	0.02
Pietroso	72	Max WS	Pro_II_TP3h_TR30	27.56	71.72	74.52		74.52	0.000044	0.32	133.05	87.25	0.07
Pietroso	71	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	55.22	71.50	76.98		76.98	0.000003	0.14	651.23	215.08	0.02
Pietroso	71	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.61	71.50	76.84		76.85	0.000003	0.13	622.80	214.66	0.02
Pietroso	71	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.58	71.50	76.19		76.19	0.000003	0.12	483.20	212.61	0.02
Pietroso	71	Max WS	Pro_II_TP3h_TR30	27.56	71.50	74.52		74.52	0.000049	0.36	153.53	140.86	0.07
Pietroso	70	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	55.14	70.78	76.98		76.98	0.000004	0.16	621.29	215.24	0.02
Pietroso	70	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.60	70.78	76.84		76.85	0.000003	0.15	592.95	214.18	0.02
Pietroso	70	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.61	70.78	76.19		76.19	0.000003	0.14	454.70	208.93	0.02
Pietroso	70	Max WS	Pro_II_TP3h_TR30	27.52	70.78	74.52		74.52	0.000071	0.50	134.14	141.92	0.08
Pietroso	69	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	55.10	70.43	76.98		76.98	0.000003	0.15	647.34	230.25	0.02
Pietroso	69	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.60	70.43	76.84		76.85	0.000003	0.14	617.02	229.19	0.02
Pietroso	69	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.61	70.43	76.19		76.19	0.000003	0.13	468.96	223.95	0.02
Pietroso	69	Max WS	Pro_II_TP3h_TR30	27.52	70.43	74.52		74.52	0.000047	0.38	129.77	149.94	0.07
Pietroso	68	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	55.04	70.19	76.98		76.98	0.000003	0.16	628.43	220.05	0.02
Pietroso	68	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.59	70.19	76.84		76.85	0.000003	0.15	599.42	218.67	0.02
Pietroso	68	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.60	70.19	76.19		76.19	0.000003	0.13	458.80	211.88	0.02
Pietroso	68	Max WS	Pro_II_TP3h_TR30	27.51	70.19	74.52		74.52	0.000044	0.41	137.01	160.02	0.07

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	67	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	54.68	70.19	76.98		76.98	0.000004	0.17	602.67	211.16	0.02
Pietroso	67	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.59	70.19	76.84		76.85	0.000003	0.15	574.84	209.56	0.02
Pietroso	67	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.89	70.19	76.19		76.19	0.000003	0.14	440.52	201.71	0.02
Pietroso	67	Max WS	Pro_II_TP3h_TR30	27.48	70.19	74.52		74.52	0.000042	0.40	137.63	147.78	0.07
Pietroso	66	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	54.67	69.83	76.98		76.98	0.000003	0.15	593.99	209.86	0.02
Pietroso	66	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.57	69.83	76.84		76.85	0.000003	0.14	566.33	208.21	0.02
Pietroso	66	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.89	69.83	76.19		76.19	0.000003	0.13	432.99	200.08	0.02
Pietroso	66	Max WS	Pro_II_TP3h_TR30	27.51	69.83	74.52		74.52	0.000031	0.32	132.73	127.72	0.06
Pietroso	65	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	54.64	69.54	76.98		76.98	0.000002	0.12	776.96	236.07	0.02
Pietroso	65	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.57	69.54	76.84		76.85	0.000002	0.11	745.80	235.02	0.01
Pietroso	65	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.88	69.54	76.19		76.19	0.000001	0.10	593.91	229.84	0.01
Pietroso	65	Max WS	Pro_II_TP3h_TR30	27.54	69.54	74.52		74.52	0.000013	0.23	228.85	180.46	0.04
Pietroso	64	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.99	69.46	76.98		76.98	0.000001	0.12	845.13	237.59	0.01
Pietroso	64	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.56	69.46	76.84		76.85	0.000001	0.11	813.78	236.50	0.01
Pietroso	64	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.88	69.46	76.19		76.19	0.000001	0.09	661.06	231.11	0.01
Pietroso	64	Max WS	Pro_II_TP3h_TR30	27.53	69.46	74.52		74.52	0.000008	0.20	285.85	209.61	0.03
Pietroso	63	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.86	68.53	76.98		76.98	0.000001	0.07	1198.09	261.26	0.01
Pietroso	63	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.52	68.53	76.84		76.85	0.000000	0.07	1163.52	260.27	0.01
Pietroso	63	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.86	68.53	76.19		76.19	0.000000	0.05	995.10	255.41	0.01
Pietroso	63	Max WS	Pro_II_TP3h_TR30	27.51	68.53	74.52		74.52	0.000001	0.09	577.82	242.95	0.01
Pietroso	62	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.73	68.57	76.98		76.98	0.000000	0.06	1402.80	257.25	0.01
Pietroso	62	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.51	68.57	76.84		76.85	0.000000	0.05	1368.75	256.36	0.01
Pietroso	62	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.85	68.57	76.19		76.19	0.000000	0.04	1202.73	251.98	0.00
Pietroso	62	Max WS	Pro_II_TP3h_TR30	27.50	68.57	74.52		74.52	0.000000	0.06	790.16	240.77	0.01
Pietroso	61	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.57	68.00	76.98		76.98	0.000000	0.06	1281.56	208.07	0.01
Pietroso	61	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	68.00	76.84		76.85	0.000000	0.06	1253.98	207.90	0.01
Pietroso	61	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.84	68.00	76.19		76.19	0.000000	0.04	1118.46	207.05	0.00
Pietroso	61	Max WS	Pro_II_TP3h_TR30	27.49	68.00	74.52		74.52	0.000000	0.06	773.57	204.87	0.01
Pietroso	60.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.56	68.00	76.97	70.57	77.00	0.000036	0.94	174.32	204.95	0.10
Pietroso	60.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	68.00	76.84	70.40	76.87	0.000034	0.91	147.96	204.76	0.10
Pietroso	60.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.84	68.00	76.19	69.90	76.22	0.000030	0.81	39.44	203.78	0.09
Pietroso	60.8	Max WS	Pro_II_TP3h_TR30	27.48	68.00	74.51	69.75	74.55	0.000050	0.88	31.06	201.27	0.11
Pietroso	60.5			Inl Struct									
Pietroso	59	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.56	67.80	69.67	70.08	71.47	0.020437	5.96	9.24	10.57	1.72
Pietroso	59	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	67.80	69.60	70.08	71.21	0.019440	5.63	8.52	9.07	1.67
Pietroso	59	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.83	67.80	69.36	69.74	70.48	0.016005	4.68	6.80	6.69	1.48



HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	59	Max WS	Pro_II_TP3h_TR30	27.44	67.80	69.28	69.58	70.27	0.015038	4.40	6.23	6.43	1.43
Pietroso	58.75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.06	67.70	69.50	69.96	71.55	0.049414	6.58	9.80	17.37	1.89
Pietroso	58.75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	67.70	69.43	69.96	71.41	0.049358	6.39	8.67	15.15	1.88
Pietroso	58.75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.80	67.70	69.22	69.73	70.71	0.042833	5.42	6.12	9.39	1.71
Pietroso	58.75	Max WS	Pro_II_TP3h_TR30	27.42	67.70	69.14	69.65	70.46	0.040752	5.09	5.47	7.48	1.65
Pietroso	58	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	54.25	66.79	69.16		69.34	0.004835	2.45	30.56	26.31	0.55
Pietroso	58	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	66.79	69.09		69.25	0.004520	2.31	28.59	25.95	0.53
Pietroso	58	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.52	66.79	68.89		69.00	0.003783	1.96	23.53	24.99	0.48
Pietroso	58	Max WS	Pro_II_TP3h_TR30	28.17	66.79	68.84		68.93	0.003388	1.82	22.18	24.73	0.45
Pietroso	57	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.55	67.01	68.97	68.98	69.31	0.010081	3.23	24.49	34.17	0.90
Pietroso	57	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	67.01	68.90	68.92	69.23	0.010200	3.14	22.29	33.91	0.89
Pietroso	57	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	32.12	67.01	68.73	68.74	69.01	0.010033	2.81	16.37	33.19	0.87
Pietroso	57	Max WS	Pro_II_TP3h_TR30	27.74	67.01	68.67	68.67	68.93	0.009833	2.69	14.46	29.40	0.85
Pietroso	56	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.53	66.65	68.80		69.07	0.008946	3.26	27.36	35.27	0.78
Pietroso	56	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	66.65	68.72		69.00	0.009551	3.27	24.59	34.85	0.80
Pietroso	56	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.93	66.65	68.49	68.56	68.81	0.012094	3.34	16.80	32.95	0.88
Pietroso	56	Max WS	Pro_II_TP3h_TR30	27.56	66.65	68.41	68.51	68.77	0.013459	3.40	14.33	32.32	0.92
Pietroso	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.53	66.08	68.37	68.56	69.06	0.014394	4.18	18.26	23.82	0.99
Pietroso	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	66.08	68.28	68.49	68.98	0.015099	4.14	16.11	23.01	1.00
Pietroso	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.89	66.08	68.00	68.25	68.74	0.017203	3.94	10.11	20.57	1.04
Pietroso	55	Max WS	Pro_II_TP3h_TR30	27.51	66.08	67.91	68.17	68.60	0.017229	3.77	8.33	13.81	1.03
Pietroso	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.52	65.75	67.98	68.13	68.80	0.013118	4.25	14.96	13.49	1.05
Pietroso	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	65.75	67.88	68.01	68.64	0.013149	4.08	13.63	12.85	1.04
Pietroso	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.87	65.75	67.58	67.65	68.18	0.013316	3.57	10.02	10.93	1.01
Pietroso	54	Max WS	Pro_II_TP3h_TR30	27.50	65.75	67.48	67.54	68.03	0.013466	3.40	8.95	10.29	1.00
Pietroso	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.50	64.27	66.59	66.67	67.30	0.011075	3.85	15.87	14.80	0.93
Pietroso	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.50	64.27	66.49	66.55	67.15	0.011059	3.69	14.40	14.04	0.92
Pietroso	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.85	64.27	66.17	66.14	66.69	0.011130	3.21	10.32	11.68	0.89
Pietroso	53	Max WS	Pro_II_TP3h_TR30	27.50	64.27	66.06	65.96	66.53	0.011149	3.04	9.12	10.52	0.88
Pietroso	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.46	61.70	64.00	64.17	64.80	0.012941	4.02	14.66	16.11	0.99
Pietroso	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.49	61.70	63.88	64.05	64.65	0.013394	3.90	12.90	14.02	0.99
Pietroso	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.85	61.70	63.50	63.50	64.12	0.014339	3.49	9.12	7.26	1.00
Pietroso	52	Max WS	Pro_II_TP3h_TR30	27.50	61.70	63.37	63.35	63.95	0.014164	3.36	8.18	6.87	0.98
Pietroso	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.45	60.83	63.16		63.85	0.010876	3.66	14.59	8.68	0.90
Pietroso	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.49	60.83	63.03		63.67	0.010826	3.53	13.44	8.47	0.90
Pietroso	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.85	60.83	62.66		63.14	0.009965	3.05	10.43	7.91	0.85
Pietroso	51	Max WS	Pro_II_TP3h_TR30	27.50	60.83	62.55		62.97	0.009566	2.88	9.55	7.74	0.83

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	50	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.44	60.57	62.89		63.44	0.008365	3.28	16.52	10.50	0.77
Pietroso	50	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.49	60.57	62.81		63.29	0.007690	3.07	15.63	10.06	0.74
Pietroso	50	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	60.57	62.51		62.82	0.006114	2.47	12.89	8.64	0.65
Pietroso	50	Max WS	Pro_II_TP3h_TR30	27.50	60.57	62.42		62.69	0.005486	2.27	12.11	8.58	0.61
Pietroso	49	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.44	60.30	62.70		62.98	0.004875	2.35	22.77	16.62	0.64
Pietroso	49	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.49	60.30	62.61		62.86	0.004609	2.23	21.29	16.07	0.62
Pietroso	49	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	60.30	62.35		62.52	0.003596	1.84	17.33	14.51	0.54
Pietroso	49	Max WS	Pro_II_TP3h_TR30	27.50	60.30	62.27		62.42	0.003199	1.70	16.22	14.02	0.50
Pietroso	48	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.43	60.21	62.34	62.49	63.08	0.018547	3.82	13.98	13.41	1.20
Pietroso	48	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.49	60.21	62.24	62.39	62.96	0.019207	3.73	12.72	13.00	1.20
Pietroso	48	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	60.21	61.97	62.10	62.56	0.021137	3.41	9.35	11.82	1.22
Pietroso	48	Max WS	Pro_II_TP3h_TR30	27.50	60.21	61.89	62.00	62.44	0.021648	3.28	8.40	11.46	1.22
Pietroso	47	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.43	59.62	61.80		62.21	0.008400	2.83	18.86	15.82	0.83
Pietroso	47	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.49	59.62	61.69		62.08	0.008717	2.78	17.11	15.21	0.84
Pietroso	47	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	59.62	61.37		61.70	0.009603	2.56	12.45	13.46	0.85
Pietroso	47	Max WS	Pro_II_TP3h_TR30	27.50	59.62	61.27		61.58	0.009869	2.47	11.12	12.91	0.85
Pietroso	46	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.42	58.98	61.35		61.82	0.008361	3.04	17.58	12.34	0.81
Pietroso	46	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.49	58.98	61.23		61.67	0.008457	2.94	16.13	11.99	0.81
Pietroso	46	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	58.98	60.87		61.23	0.008931	2.65	12.00	10.94	0.81
Pietroso	46	Max WS	Pro_II_TP3h_TR30	27.50	58.98	60.76		61.09	0.009150	2.55	10.76	10.61	0.81
Pietroso	45	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.41	58.26	60.90		61.38	0.008183	3.07	17.41	12.01	0.81
Pietroso	45	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.49	58.26	60.78		61.23	0.008184	2.97	15.99	11.59	0.81
Pietroso	45	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	58.26	60.41		60.77	0.008170	2.65	12.00	10.32	0.79
Pietroso	45	Max WS	Pro_II_TP3h_TR30	27.50	58.26	60.30		60.63	0.008166	2.54	10.81	9.91	0.78
Pietroso	44	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.40	57.88	60.42		60.96	0.009880	3.27	16.32	11.36	0.87
Pietroso	44	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	57.88	60.29		60.81	0.009946	3.18	14.95	10.92	0.87
Pietroso	44	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	57.88	59.92		60.34	0.010093	2.86	11.12	9.57	0.85
Pietroso	44	Max WS	Pro_II_TP3h_TR30	27.50	57.88	59.80		60.19	0.010180	2.76	9.97	9.13	0.84
Pietroso	43.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.40	57.75	60.26		60.68	0.006513	2.89	18.46	11.78	0.74
Pietroso	43.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	57.75	60.13		60.53	0.006424	2.79	17.03	11.40	0.73
Pietroso	43.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	57.75	59.77		60.07	0.005979	2.44	13.08	10.23	0.69
Pietroso	43.2	Max WS	Pro_II_TP3h_TR30	27.50	57.75	59.65		59.92	0.005817	2.32	11.86	9.81	0.67
Pietroso	43.18	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.40	57.74	60.36	59.81	60.63	0.003929	2.31	23.09	14.08	0.58
Pietroso	43.18	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	57.74	60.23	59.70	60.48	0.003938	2.23	21.30	13.86	0.57
Pietroso	43.18	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	57.74	59.84	59.36	60.04	0.004119	2.00	15.96	13.05	0.58
Pietroso	43.18	Max WS	Pro_II_TP3h_TR30	27.50	57.74	59.71	59.26	59.90	0.004133	1.92	14.30	12.40	0.57

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

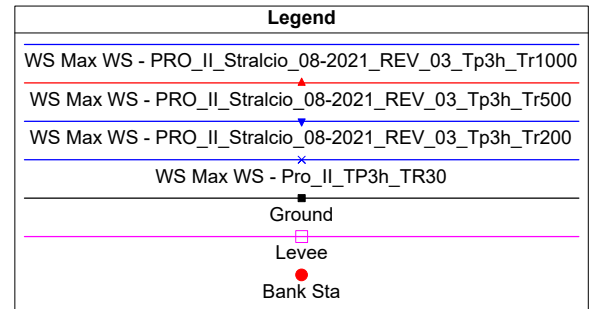
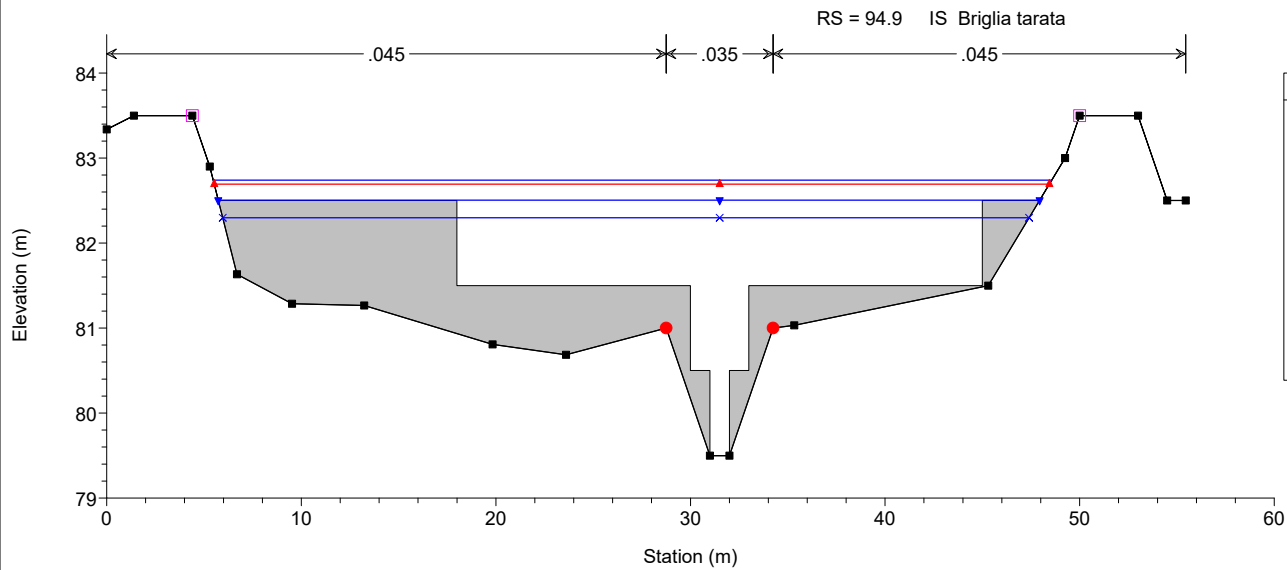
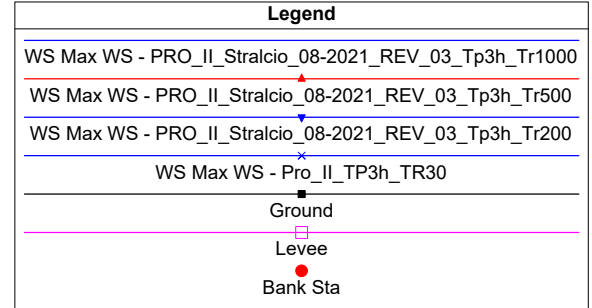
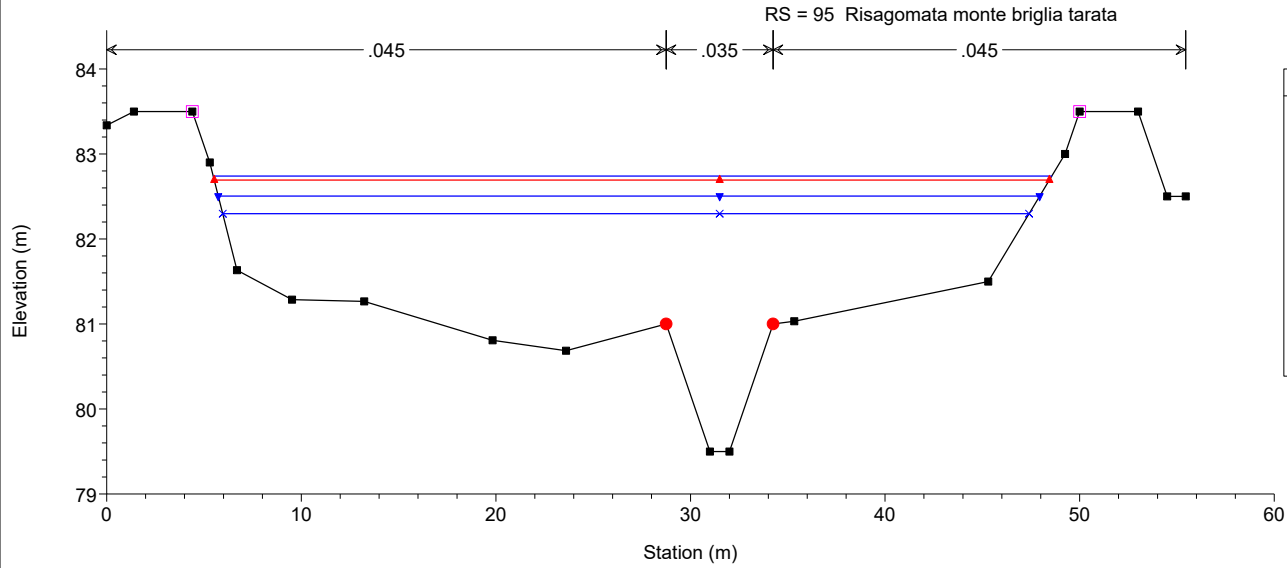
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pietroso	43.15			Bridge									
Pietroso	43.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.40	57.74	60.26		60.57	0.004671	2.45	21.76	13.91	0.63
Pietroso	43.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	57.74	60.13		60.42	0.004827	2.38	19.93	13.83	0.63
Pietroso	43.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	57.74	59.73		59.97	0.005282	2.19	14.56	12.50	0.65
Pietroso	43.1	Max WS	Pro_II_TP3h_TR30	27.50	57.74	59.60		59.83	0.005393	2.12	12.97	11.85	0.65
Pietroso	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.39	57.36	59.78		60.40	0.010925	3.51	15.22	10.21	0.92
Pietroso	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	57.36	59.65		60.24	0.010946	3.40	13.96	9.84	0.91
Pietroso	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	57.36	59.28		59.75	0.010874	3.04	10.48	8.74	0.89
Pietroso	42	Max WS	Pro_II_TP3h_TR30	27.50	57.36	59.15		59.59	0.010800	2.91	9.45	8.39	0.88
Pietroso	41.9			Lat Struct									
Pietroso	41.8			Lat Struct									
Pietroso	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.38	57.20	59.46		59.89	0.006416	2.91	18.34	11.33	0.73
Pietroso	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	57.20	59.34		59.74	0.006260	2.79	17.02	11.04	0.72
Pietroso	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	57.20	58.98		59.28	0.005827	2.42	13.16	10.14	0.68
Pietroso	41	Max WS	Pro_II_TP3h_TR30	27.50	57.20	58.86		59.13	0.005693	2.30	11.97	9.85	0.67
Pietroso	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.38	56.94	59.29		59.71	0.006709	2.86	18.66	12.69	0.75
Pietroso	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	56.94	59.17		59.56	0.006712	2.77	17.13	12.23	0.75
Pietroso	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	56.94	58.79		59.11	0.006726	2.49	12.81	10.86	0.73
Pietroso	40	Max WS	Pro_II_TP3h_TR30	27.49	56.94	58.67		58.96	0.006728	2.39	11.53	10.42	0.72
Pietroso	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.37	56.50	58.87		59.36	0.008121	3.10	17.23	11.82	0.82
Pietroso	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	56.50	58.75		59.21	0.008111	3.00	15.81	11.36	0.81
Pietroso	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	56.50	58.38		58.75	0.007791	2.67	11.95	10.00	0.78
Pietroso	39	Max WS	Pro_II_TP3h_TR30	27.49	56.50	58.27		58.60	0.007545	2.53	10.85	9.57	0.76
Pietroso	38	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.37	56.38	58.65	58.60	59.27	0.011218	3.49	15.28	11.02	0.95
Pietroso	38	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	56.38	58.53	58.49	59.12	0.011590	3.40	13.96	10.86	0.96
Pietroso	38	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	56.38	58.16	58.13	58.66	0.012148	3.11	10.23	9.48	0.96
Pietroso	38	Max WS	Pro_II_TP3h_TR30	27.49	56.38	58.05	58.01	58.51	0.012134	2.99	9.18	9.03	0.95
Pietroso	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.36	56.39	58.47		58.89	0.007142	2.86	18.69	13.70	0.78
Pietroso	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.48	56.39	58.33		58.74	0.007628	2.83	16.78	13.13	0.80
Pietroso	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	56.39	57.93		58.30	0.008949	2.67	11.92	11.55	0.84
Pietroso	37	Max WS	Pro_II_TP3h_TR30	27.49	56.39	57.82		58.16	0.009310	2.60	10.60	11.08	0.85
Pietroso	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.35	55.85	58.39		58.62	0.003348	2.13	25.07	15.90	0.54
Pietroso	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	47.47	55.85	58.22		58.45	0.003604	2.11	22.50	15.31	0.56
Pietroso	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	31.85	55.85	57.76		57.97	0.004471	2.02	15.80	13.65	0.60
Pietroso	36	Max WS	Pro_II_TP3h_TR30	27.49	55.85	57.62		57.82	0.004771	1.97	13.97	13.16	0.61

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	35	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.35	55.82	58.20		58.51	0.004270	2.45	21.78	13.28	0.61
Pietroso	35	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.47	55.82	58.03		58.33	0.004565	2.43	19.55	12.75	0.63
Pietroso	35	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.85	55.82	57.55		57.82	0.005513	2.31	13.77	11.27	0.67
Pietroso	35	Max WS	Pro_II_TP3h_TR30	27.49	55.82	57.41		57.67	0.005798	2.25	12.20	10.84	0.68
Pietroso	34.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.35	55.66	58.01	57.47	58.41	0.005631	2.79	19.15	9.74	0.63
Pietroso	34.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.47	55.66	57.86	57.36	58.23	0.005674	2.69	17.62	9.62	0.64
Pietroso	34.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.85	55.66	57.41	57.04	57.70	0.005787	2.38	13.36	9.42	0.64
Pietroso	34.2	Max WS	Pro_II_TP3h_TR30	27.49	55.66	57.27	56.94	57.54	0.005850	2.28	12.08	9.40	0.64
Pietroso	34.15			Bridge									
Pietroso	34.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	53.35	55.71	57.45		58.11	0.011427	3.59	14.87	9.33	0.91
Pietroso	34.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.47	55.71	57.36		57.94	0.010853	3.39	13.99	9.30	0.88
Pietroso	34.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.85	55.71	57.06		57.47	0.009338	2.83	11.27	9.21	0.82
Pietroso	34.1	Max WS	Pro_II_TP3h_TR30	27.49	55.71	56.97		57.32	0.008866	2.64	10.41	9.18	0.79
Pietroso	34.09			Lat Struct									
Pietroso	34.08			Lat Struct									
Pietroso	33	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.52	55.06	57.13		57.41	0.006605	2.34	22.46	21.22	0.73
Pietroso	33	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.46	55.06	57.05		57.32	0.006680	2.28	20.83	20.70	0.72
Pietroso	33	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.84	55.06	56.75		56.98	0.007016	2.11	15.11	17.43	0.72
Pietroso	33	Max WS	Pro_II_TP3h_TR30	27.49	55.06	56.64		56.86	0.007524	2.09	13.18	16.23	0.74
Pietroso	32	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.30	55.06	57.20		57.33	0.001789	1.57	33.33	21.35	0.40
Pietroso	32	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.44	55.06	57.12		57.24	0.001734	1.50	31.61	21.24	0.39
Pietroso	32	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.84	55.06	56.82		56.90	0.001538	1.26	25.23	20.24	0.36
Pietroso	32	Max WS	Pro_II_TP3h_TR30	27.49	55.06	56.70		56.77	0.001549	1.20	22.84	19.82	0.36
Pietroso	31	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.15	54.69	57.00		57.41	0.006554	2.85	18.54	15.28	0.74
Pietroso	31	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.43	54.69	56.89		57.29	0.006834	2.79	17.00	13.02	0.75
Pietroso	31	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.83	54.69	56.59		56.87	0.005966	2.35	13.52	11.17	0.68
Pietroso	31	Max WS	Pro_II_TP3h_TR30	27.49	54.69	56.49		56.74	0.005759	2.22	12.37	10.89	0.67
Pietroso	30	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	51.13	54.43	56.80		57.04	0.004495	2.14	23.93	19.48	0.62
Pietroso	30	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.34	54.43	56.68		56.92	0.005118	2.19	21.59	18.65	0.65
Pietroso	30	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.82	54.43	56.39		56.58	0.004930	1.94	16.44	16.65	0.62
Pietroso	30	Max WS	Pro_II_TP3h_TR30	27.43	54.43	56.26		56.44	0.005415	1.92	14.30	15.74	0.64
Pietroso	29	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	50.12	54.43	56.64		56.94	0.006251	2.39	20.93	18.40	0.72
Pietroso	29	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.29	54.43	56.49		56.83	0.008243	2.60	18.17	17.34	0.81
Pietroso	29	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.82	54.43	56.20		56.48	0.008780	2.38	13.38	15.34	0.81
Pietroso	29	Max WS	Pro_II_TP3h_TR30	27.43	54.43	56.05		56.36	0.010859	2.45	11.18	14.34	0.89

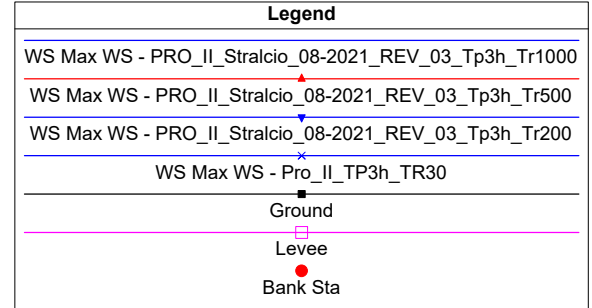
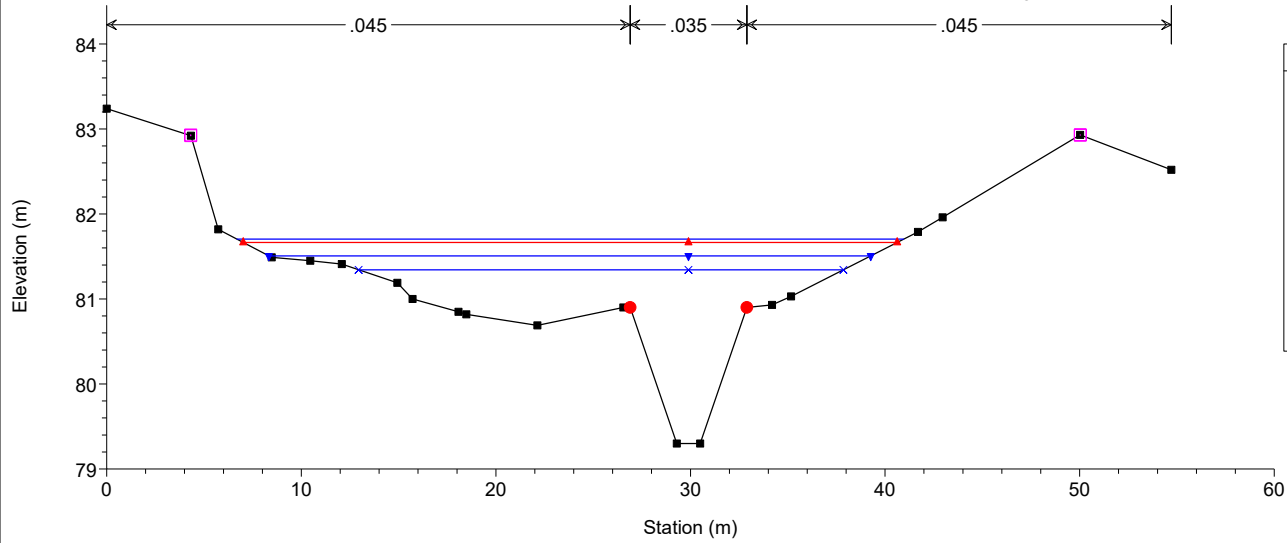
HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	28	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.54	54.01	56.48		56.83	0.006878	2.62	18.89	14.69	0.74
Pietroso	28	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	46.20	54.01	56.28		56.70	0.009297	2.87	16.08	13.67	0.85
Pietroso	28	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.79	54.01	56.02		56.34	0.008560	2.52	12.63	12.29	0.79
Pietroso	28	Max WS	Pro_II_TP3h_TR30	27.42	54.01	55.83		56.18	0.010854	2.63	10.42	11.32	0.88
Pietroso	27.9		Lat Struct										
Pietroso	27.8		Lat Struct										
Pietroso	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	47.10	53.50	56.51		56.65	0.001575	1.77	34.57	26.98	0.38
Pietroso	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	43.18	53.50	56.26		56.43	0.002344	1.99	27.58	26.95	0.45
Pietroso	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.77	53.50	55.97		56.14	0.002467	1.86	20.21	23.43	0.45
Pietroso	27	Max WS	Pro_II_TP3h_TR30	27.34	53.50	55.73		55.91	0.003058	1.94	15.41	15.75	0.50
Pietroso	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	38.24	53.00	56.47		56.59	0.001223	1.53	25.00	8.96	0.29
Pietroso	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	36.35	53.00	56.22		56.35	0.001441	1.60	22.73	8.96	0.32
Pietroso	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.74	53.00	55.87		56.00	0.001674	1.62	19.58	8.96	0.35
Pietroso	26	Max WS	Pro_II_TP3h_TR30	27.29	53.00	55.63		55.75	0.001725	1.57	17.44	8.96	0.36
Pietroso	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	35.98	52.80	56.53		56.60	0.000622	1.15	31.20	11.05	0.22
Pietroso	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	34.12	52.80	56.27		56.35	0.000730	1.20	28.41	11.05	0.24
Pietroso	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.74	52.80	55.90		55.98	0.001002	1.31	24.22	11.05	0.28
Pietroso	25	Max WS	Pro_II_TP3h_TR30	27.30	52.80	55.65		55.73	0.001047	1.27	21.53	11.05	0.29
Pietroso	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	20.54	52.50	56.59		56.60	0.000032	0.29	70.53	26.72	0.06
Pietroso	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	26.98	52.50	56.33		56.34	0.000077	0.42	63.54	26.72	0.09
Pietroso	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.69	52.50	55.94		55.96	0.000187	0.60	53.11	26.72	0.14
Pietroso	24	Max WS	Pro_II_TP3h_TR30	27.32	52.50	55.69		55.71	0.000202	0.59	46.55	25.66	0.14
Pietroso	23.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	18.81	52.50	56.59		56.60	0.000027	0.27	70.57	26.72	0.05
Pietroso	23.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	26.13	52.50	56.33		56.34	0.000072	0.41	63.56	26.72	0.09
Pietroso	23.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.67	52.50	55.94		55.96	0.000186	0.60	53.10	26.72	0.14
Pietroso	23.5	Max WS	Pro_II_TP3h_TR30	27.32	52.50	55.69		55.71	0.000202	0.59	46.53	25.65	0.14
Pietroso	23.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	16.91	52.50	56.59		56.60	0.000022	0.24	70.62	26.72	0.05
Pietroso	23.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	25.22	52.50	56.33		56.34	0.000067	0.40	63.60	26.72	0.08
Pietroso	23.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	31.64	52.50	55.94		55.96	0.000186	0.60	53.08	26.72	0.14
Pietroso	23.2	Max WS	Pro_II_TP3h_TR30	27.32	52.50	55.69		55.71	0.000202	0.59	46.52	25.65	0.14



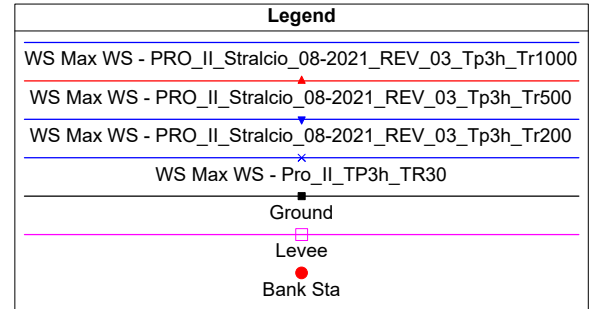
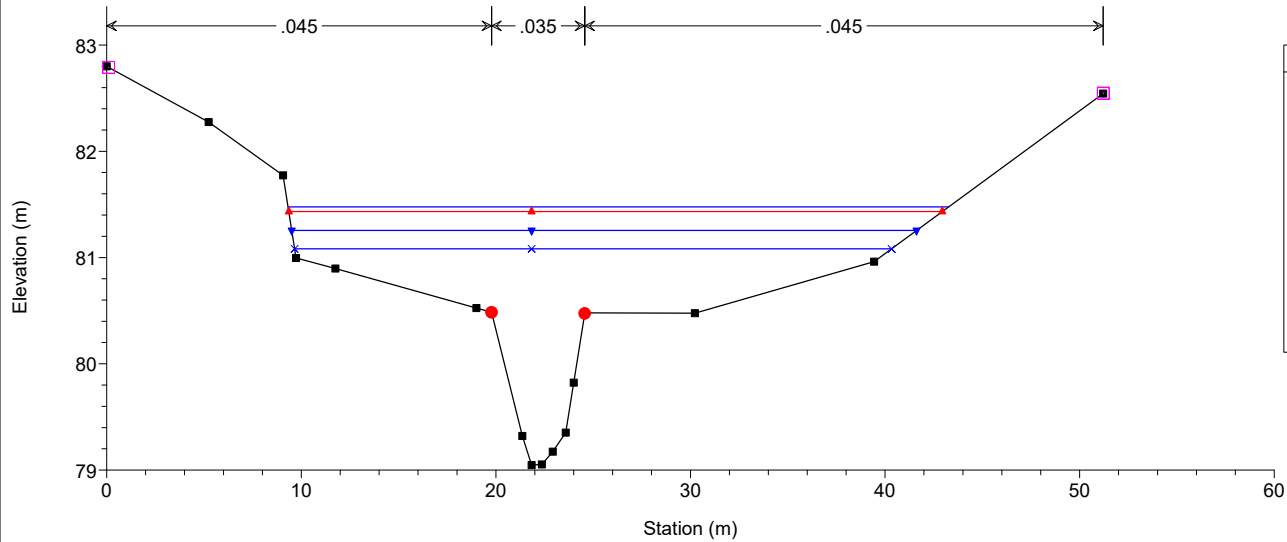
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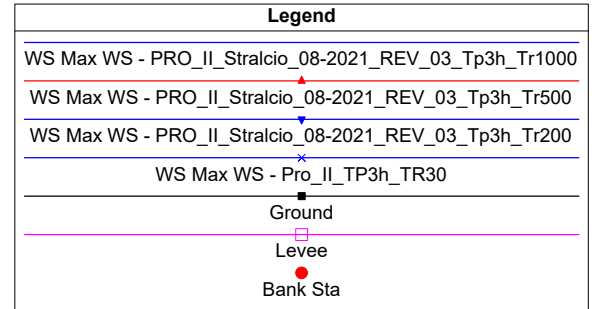
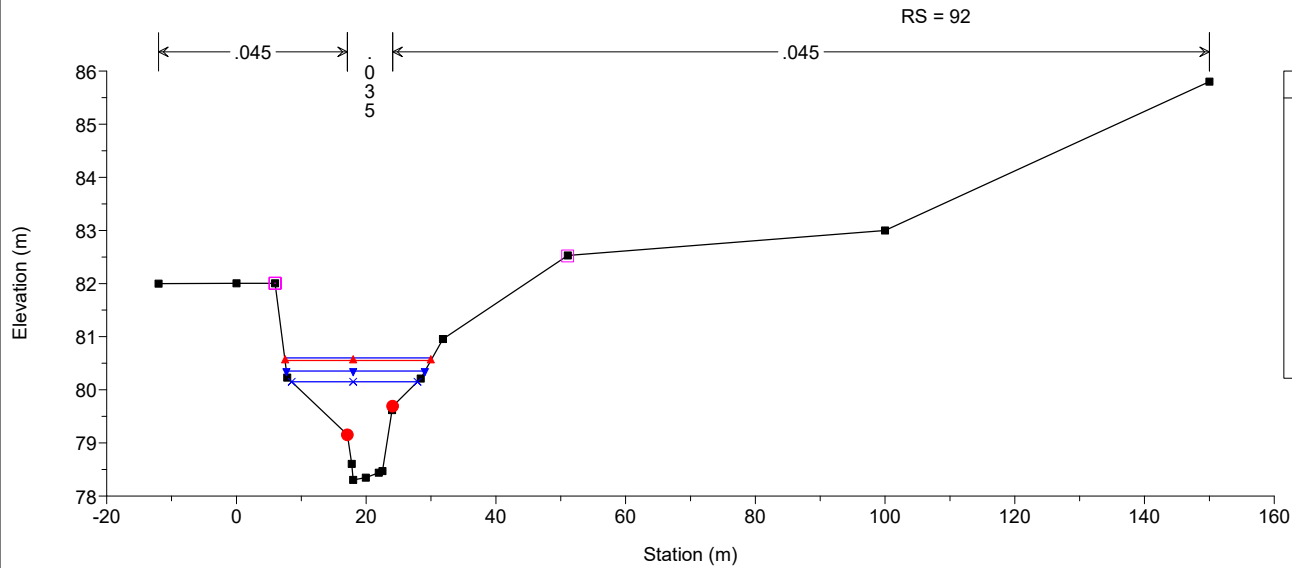
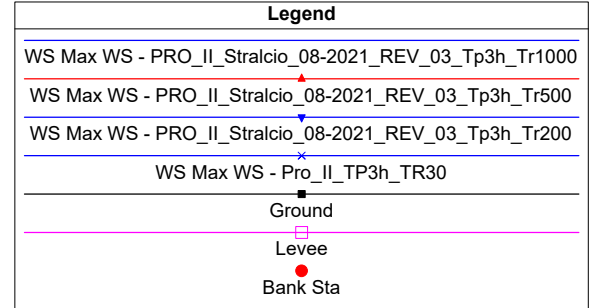
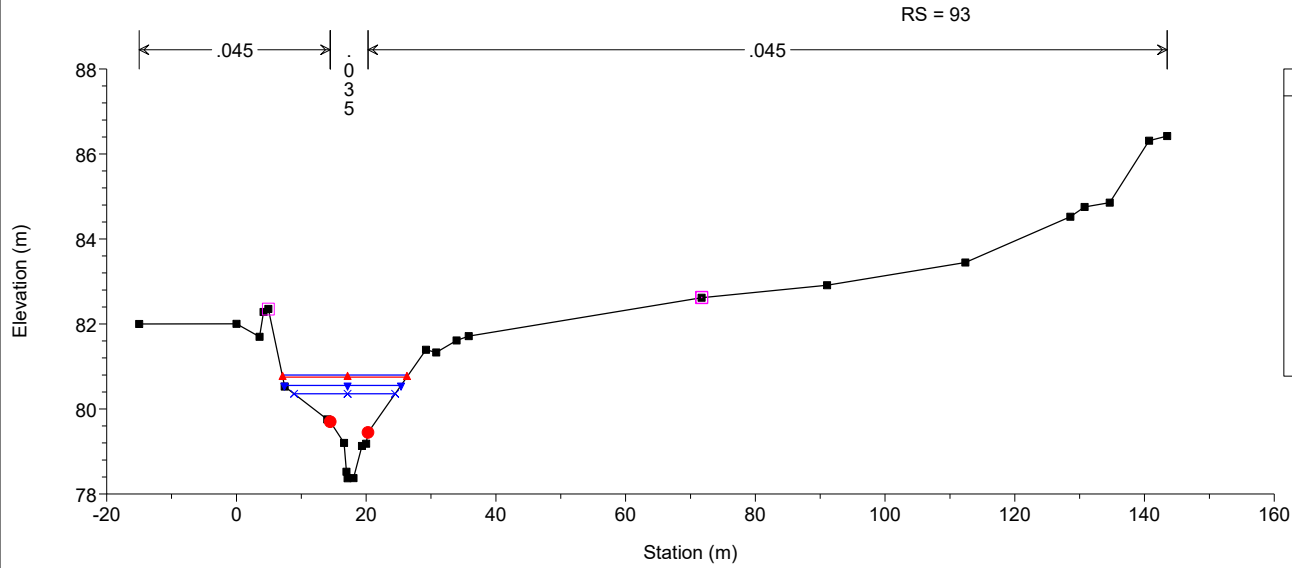
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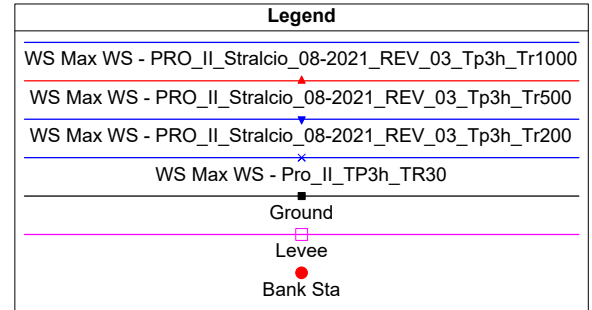
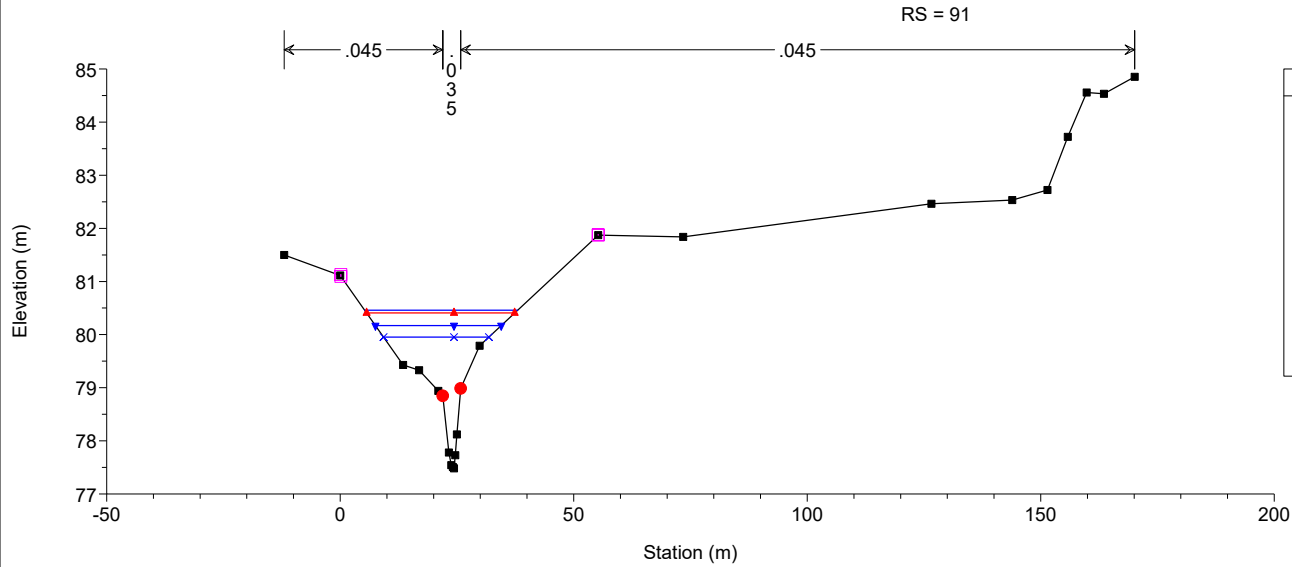
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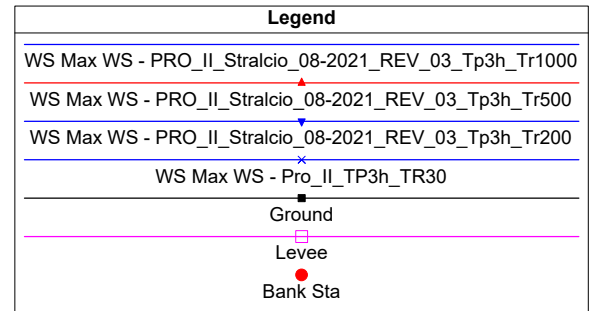
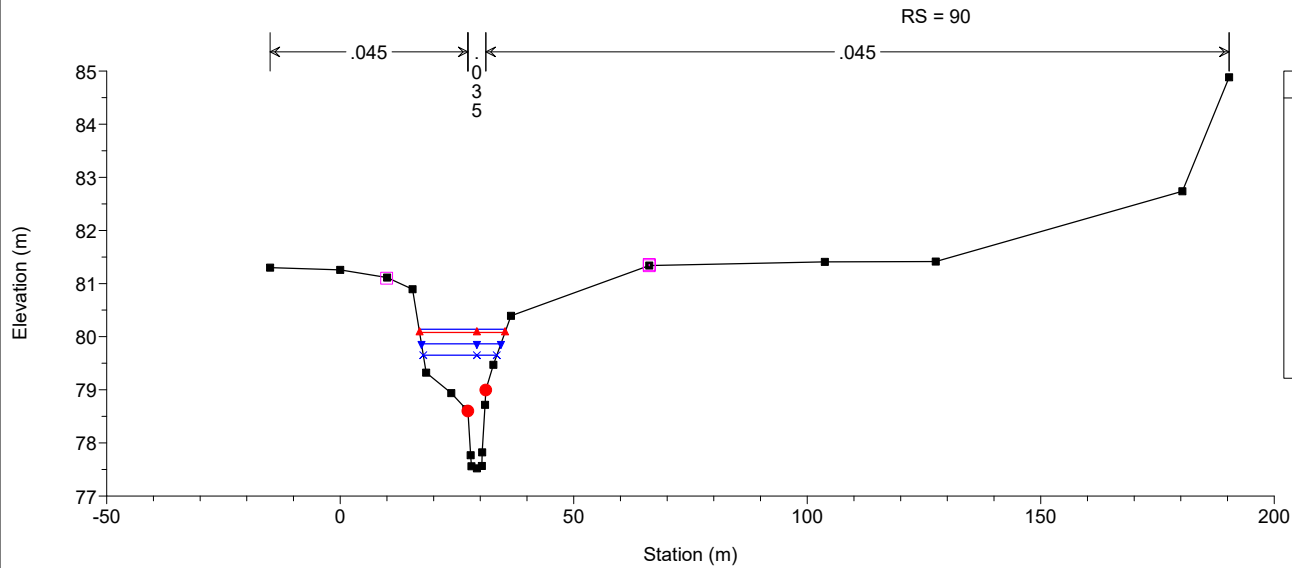




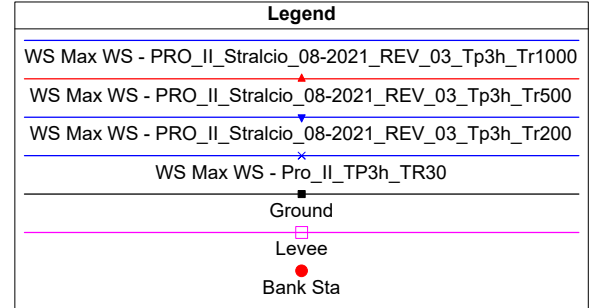
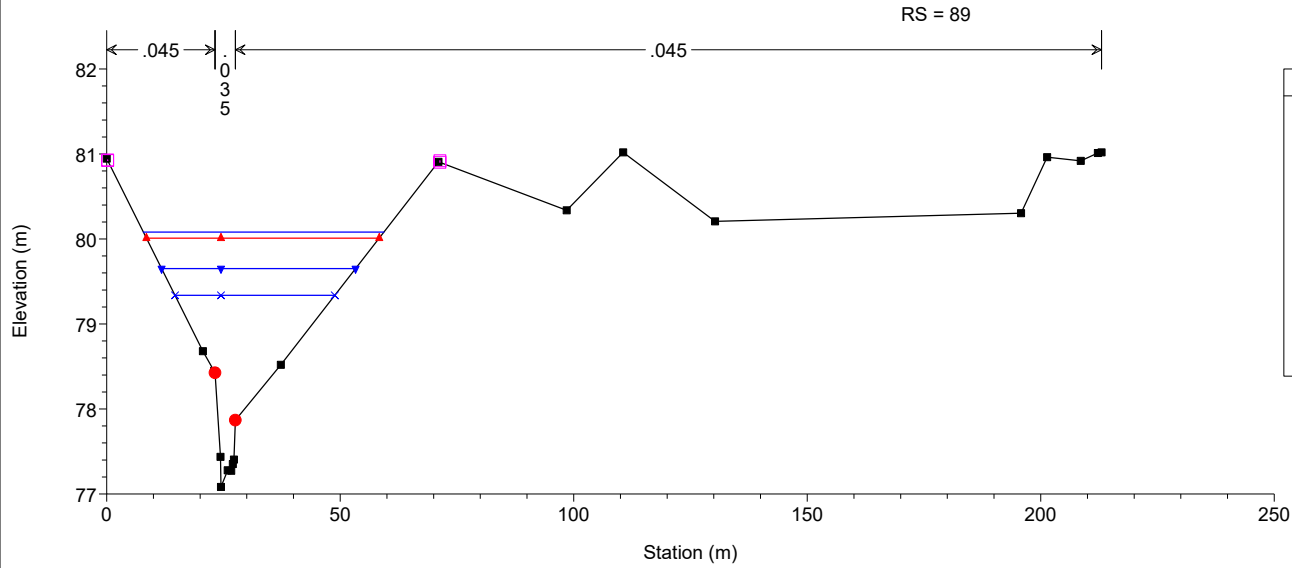
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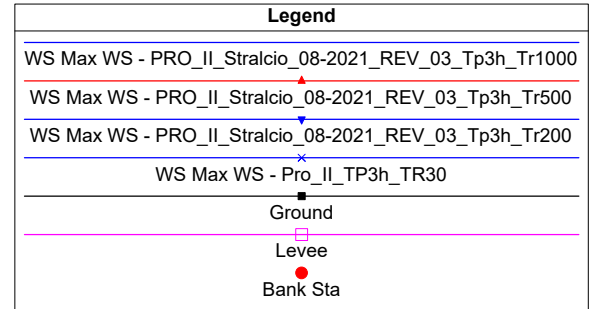
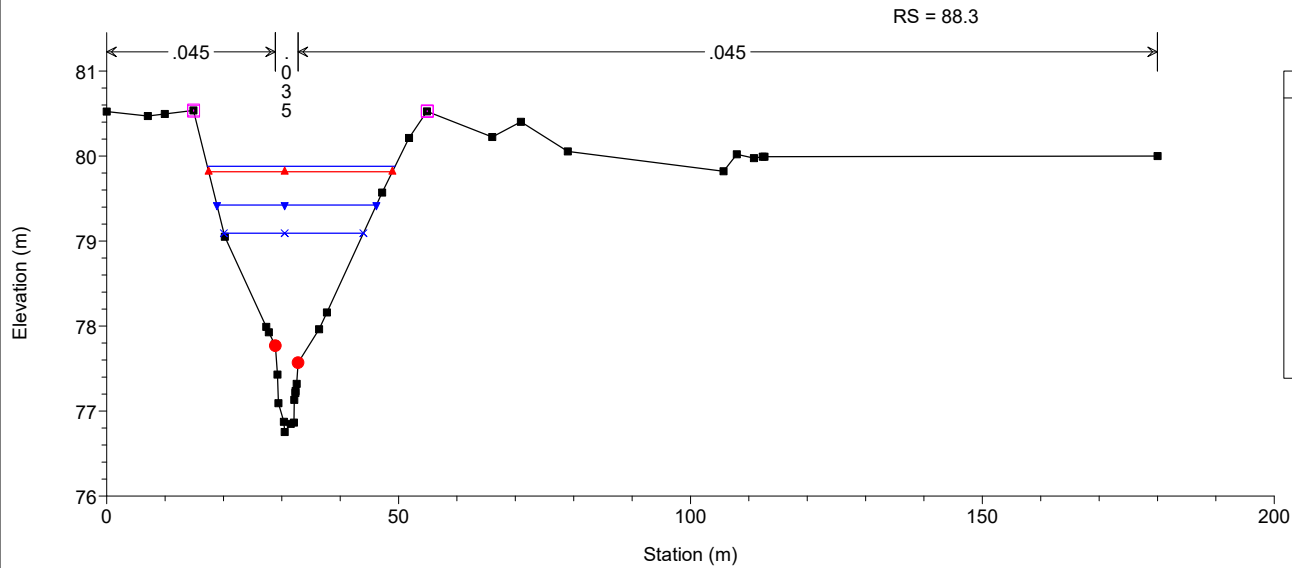
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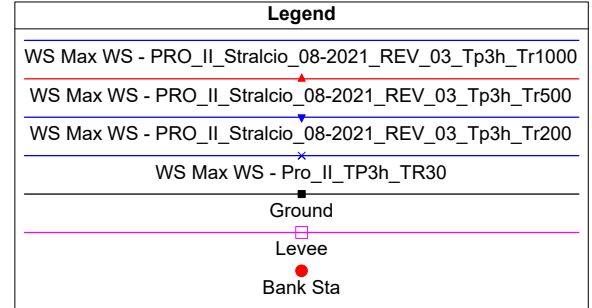
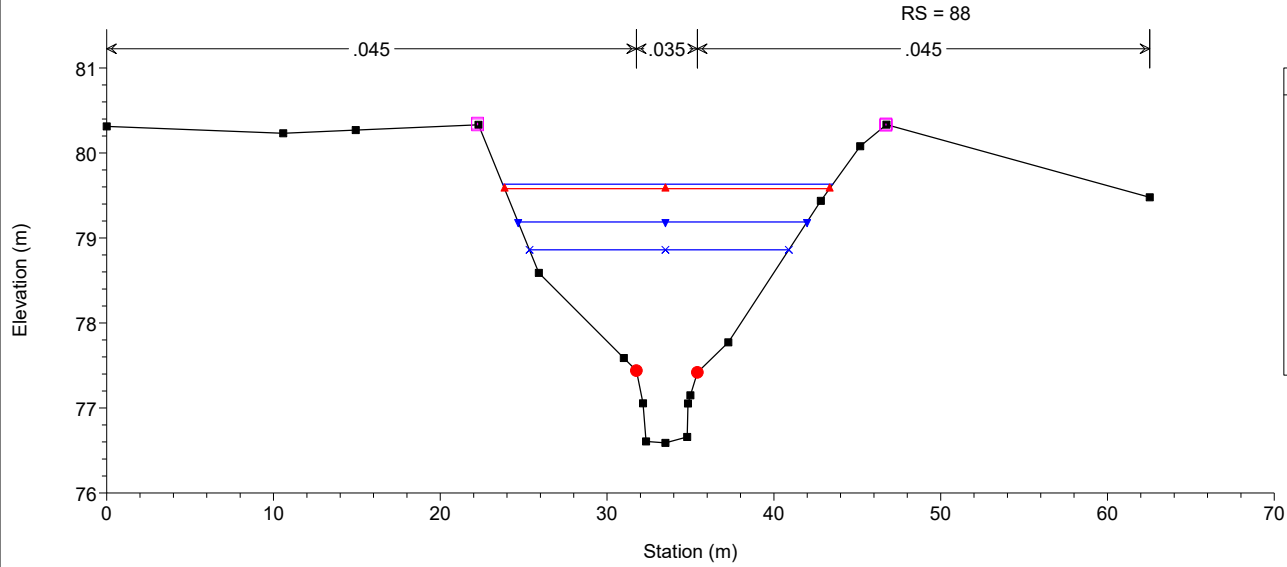
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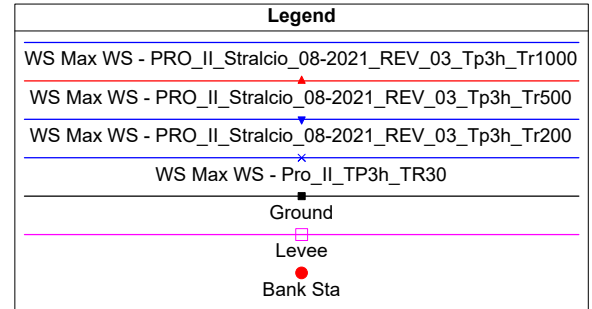
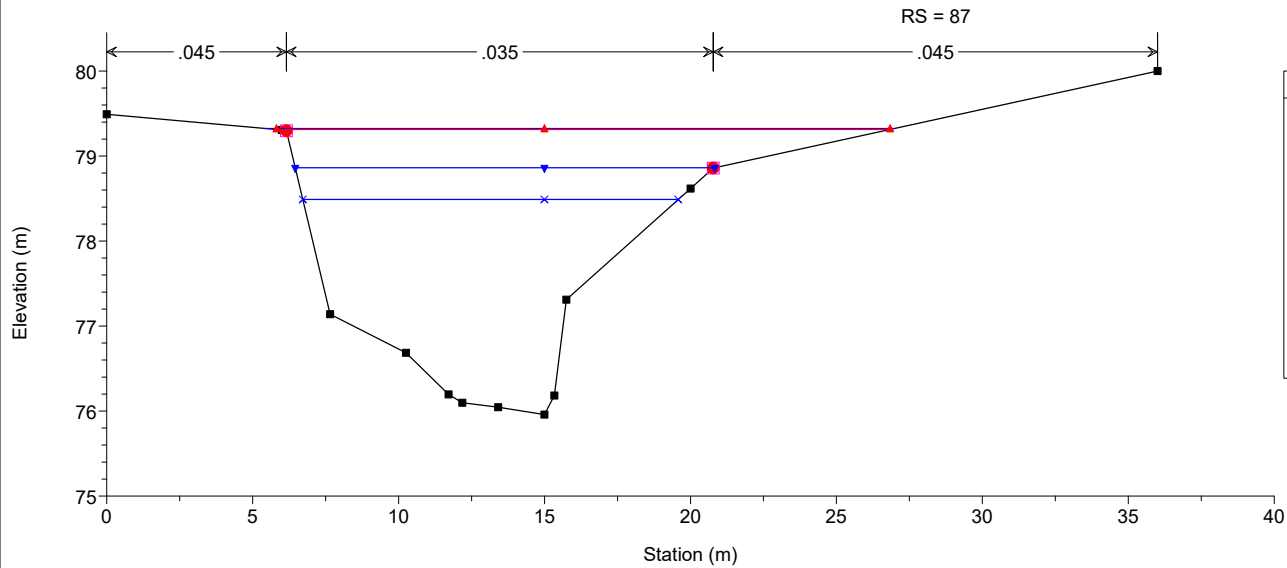
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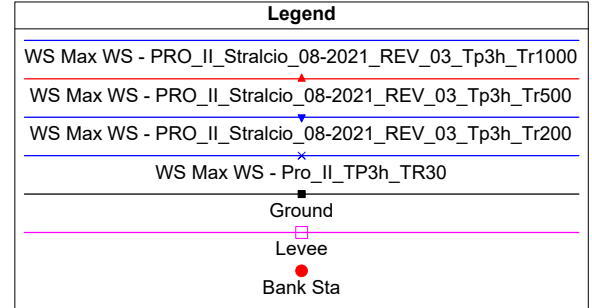
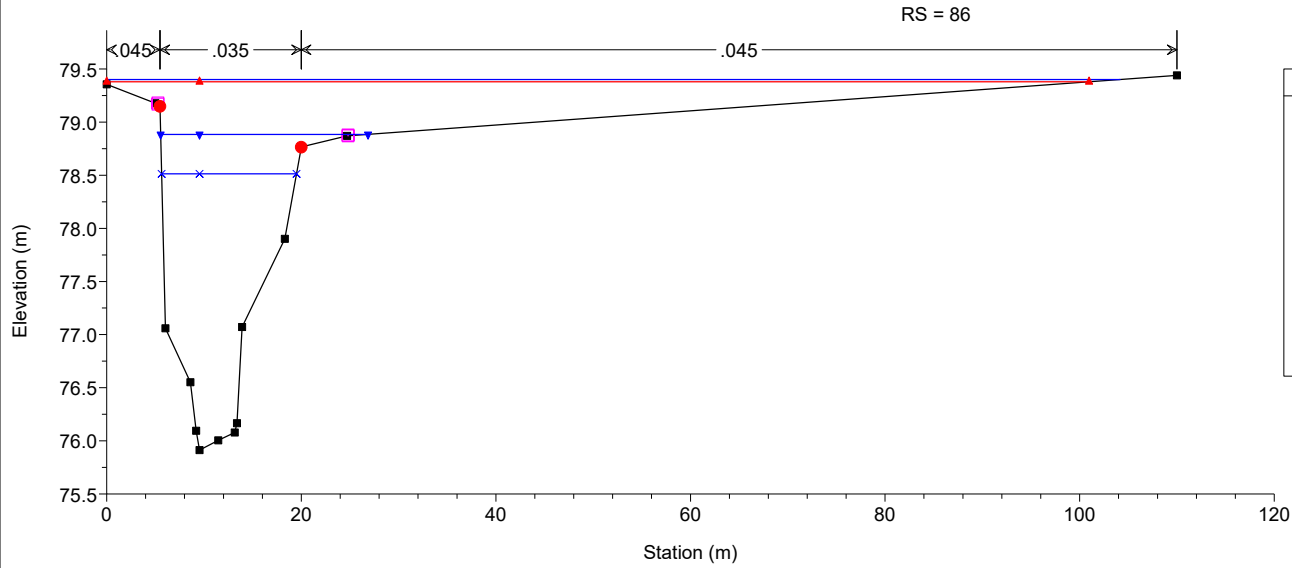
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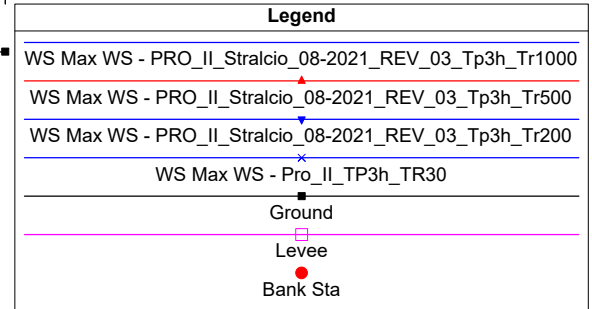
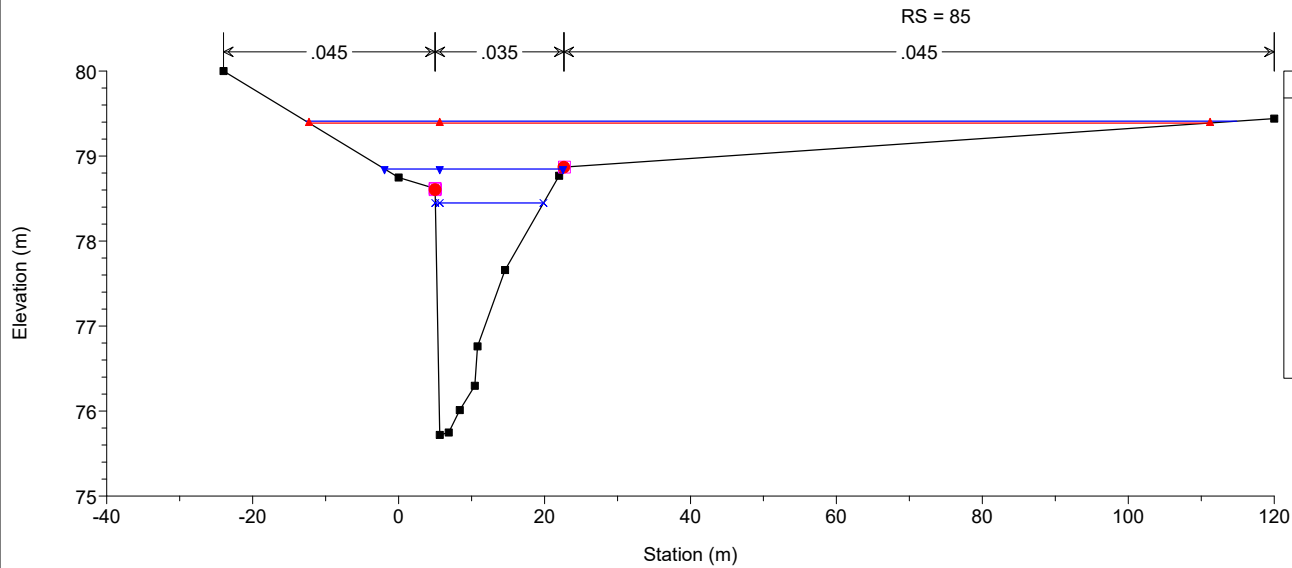
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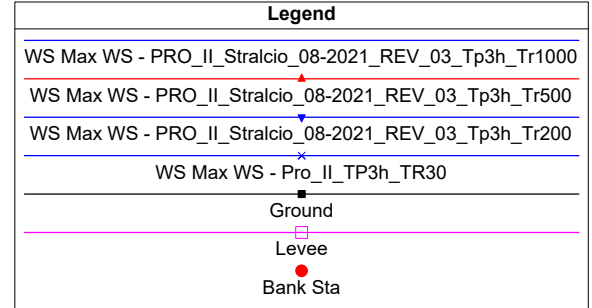
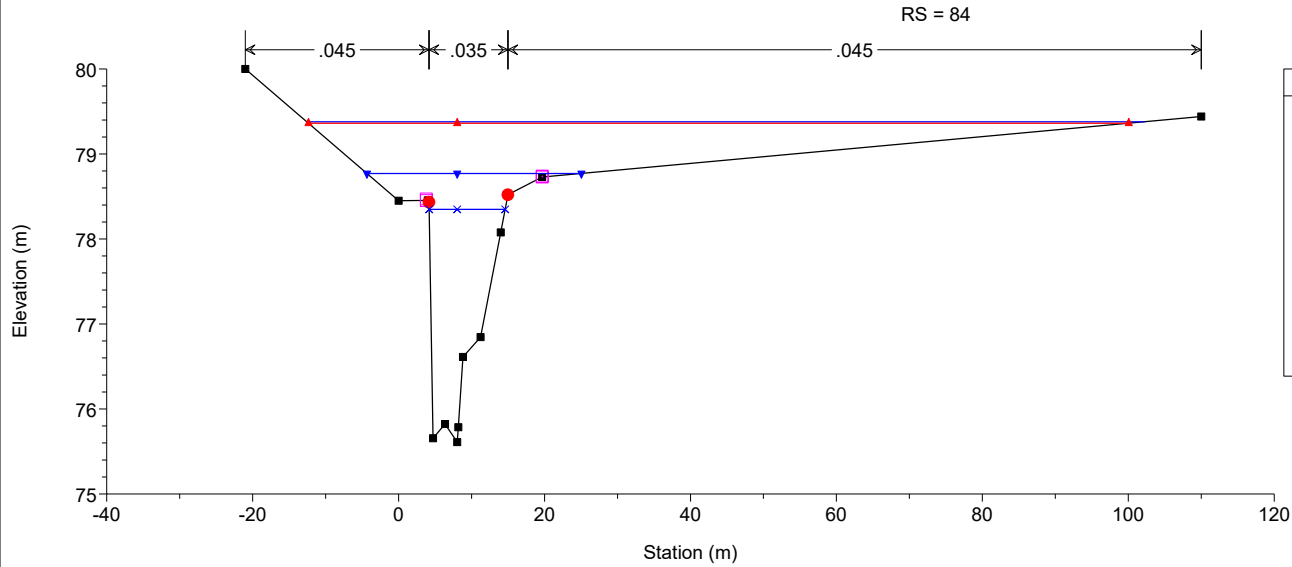
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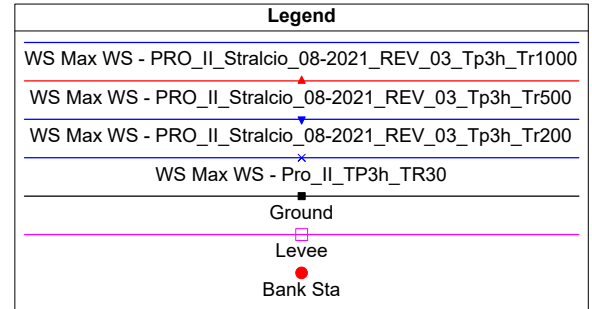
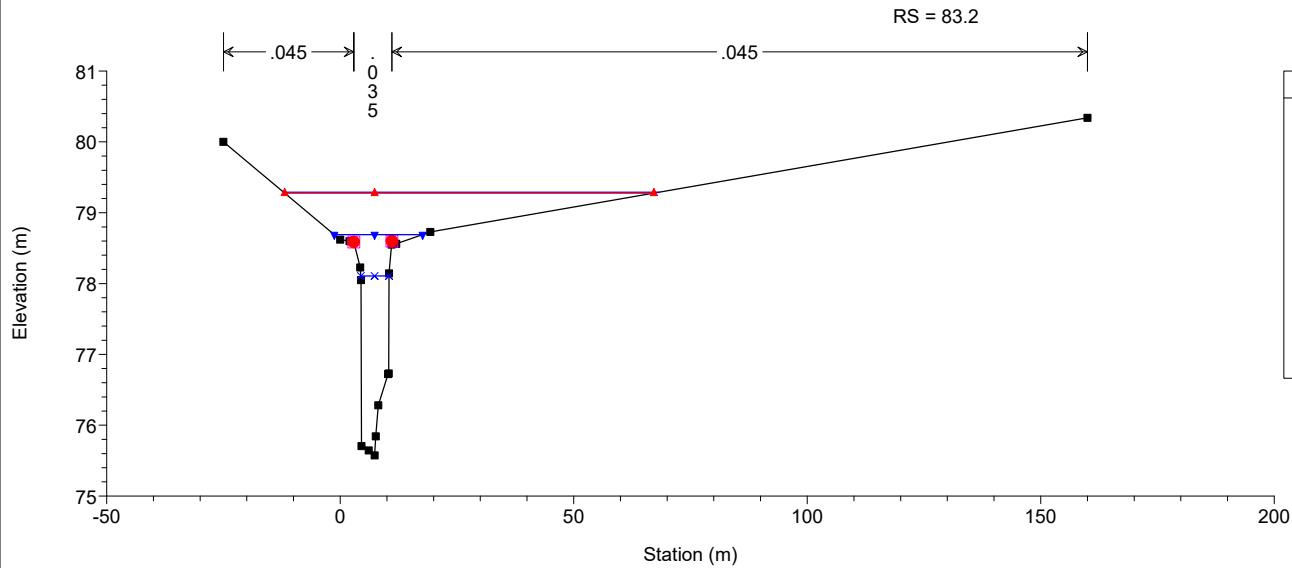
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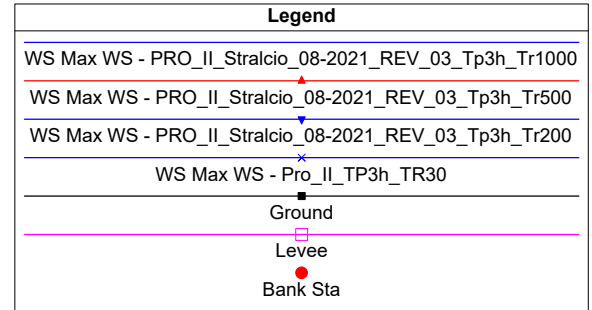
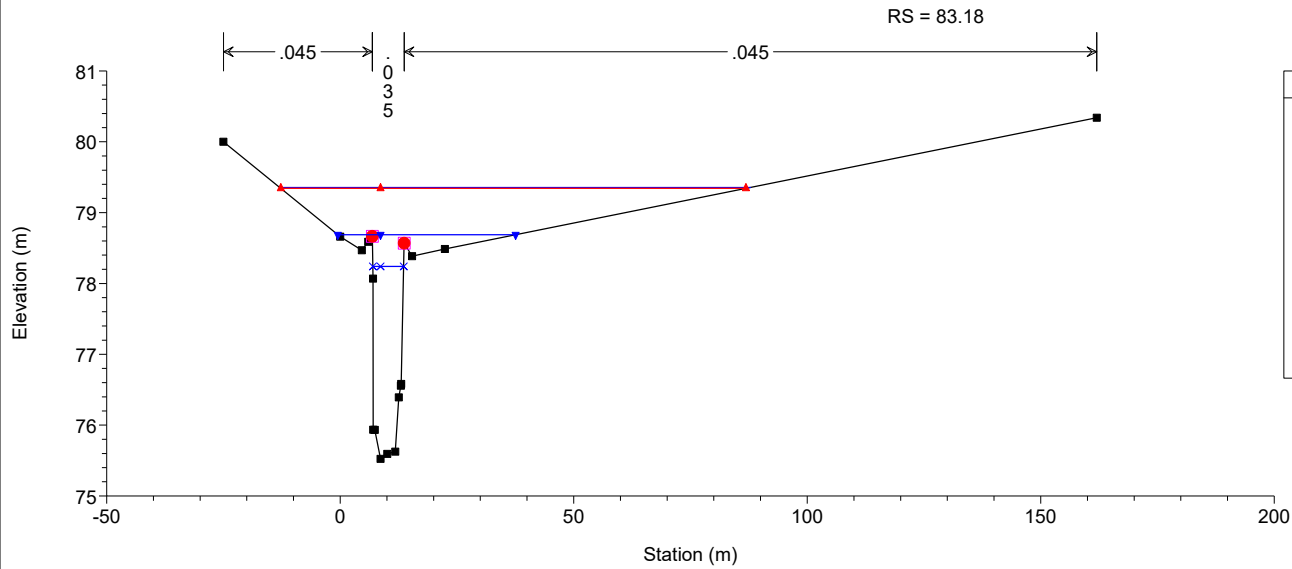
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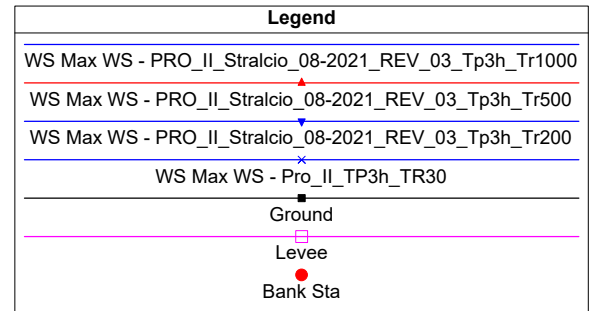
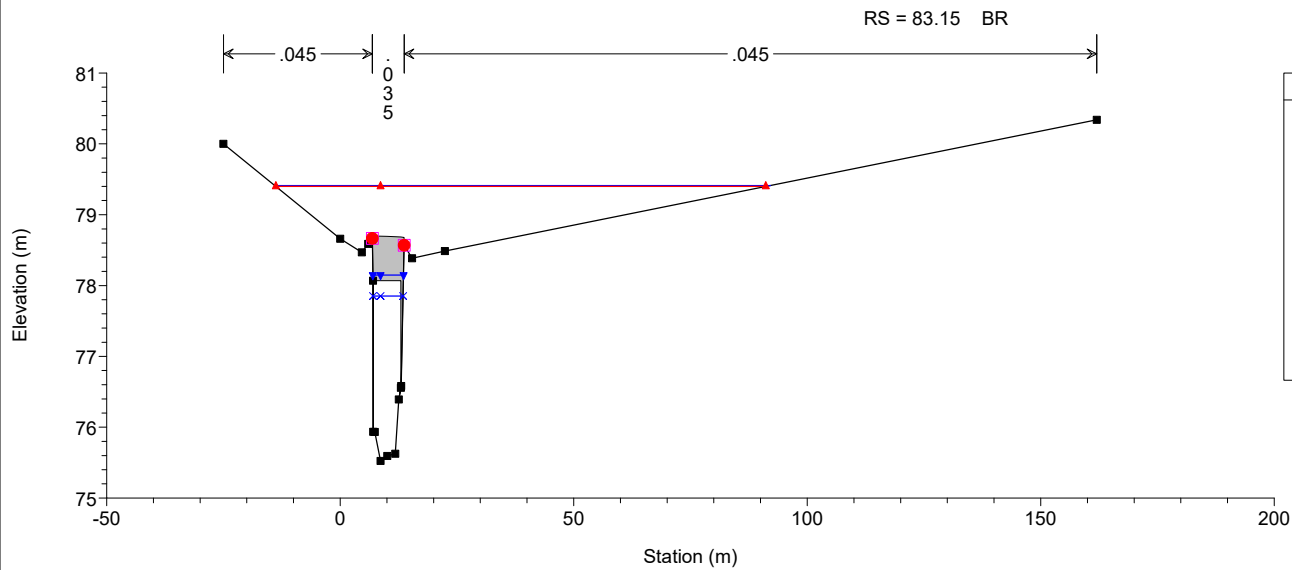
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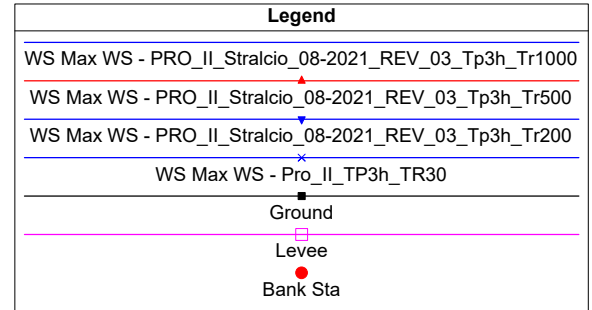
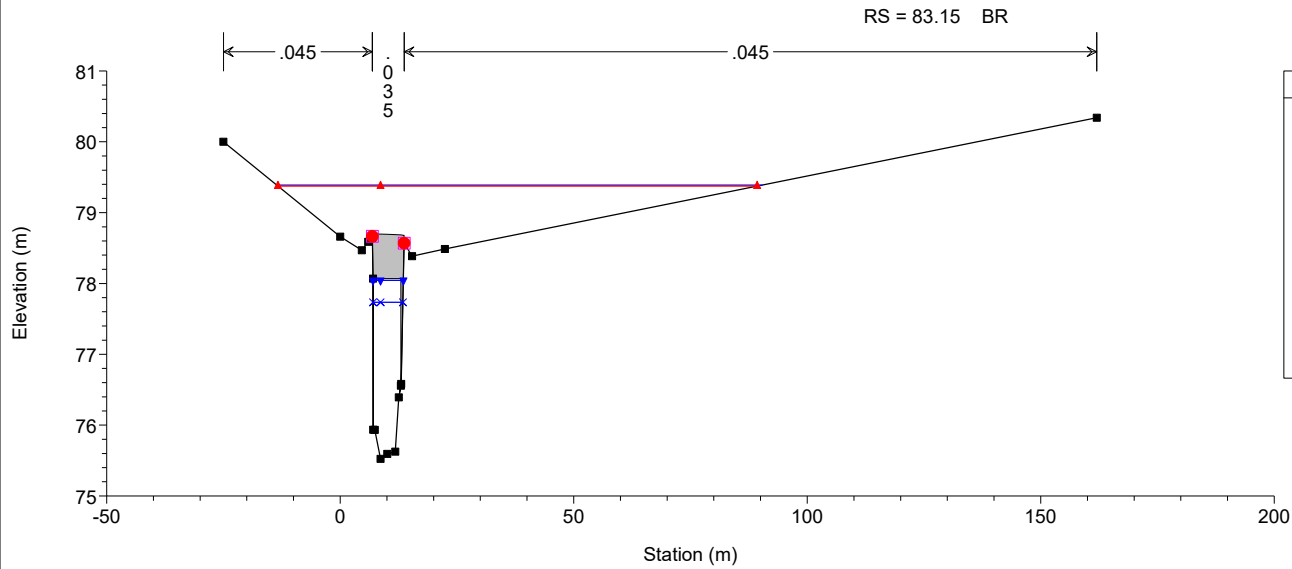
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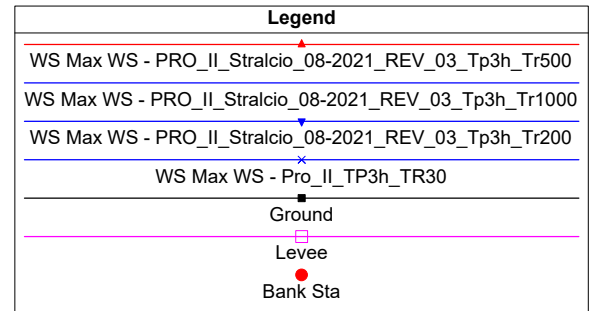
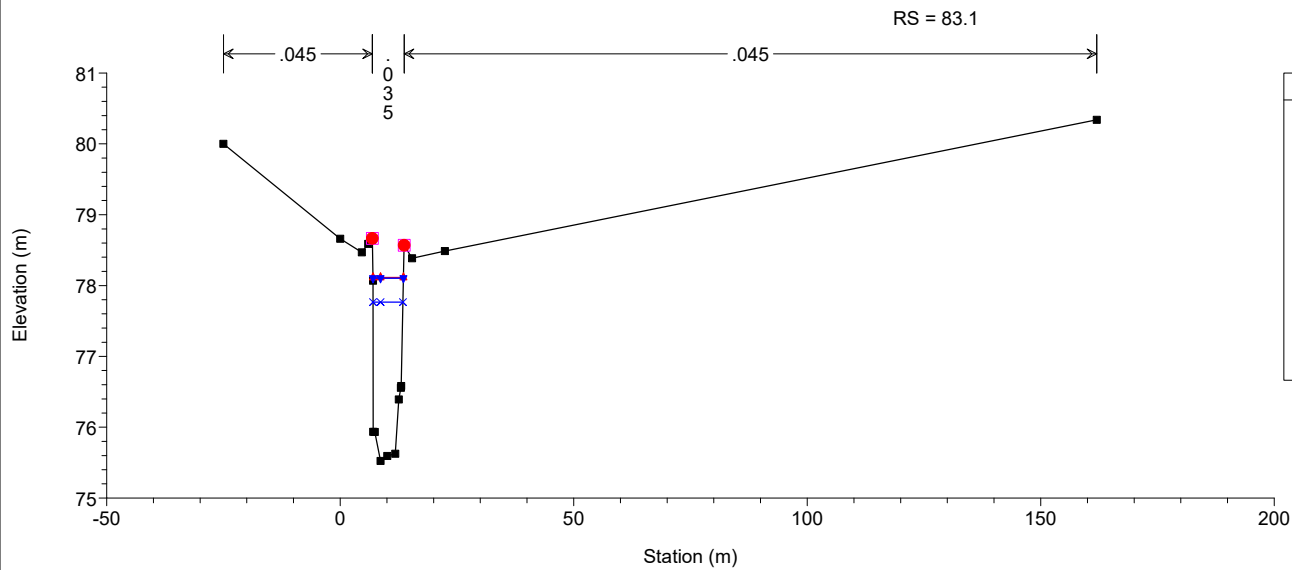
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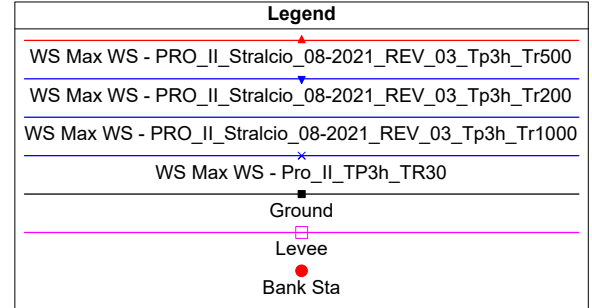
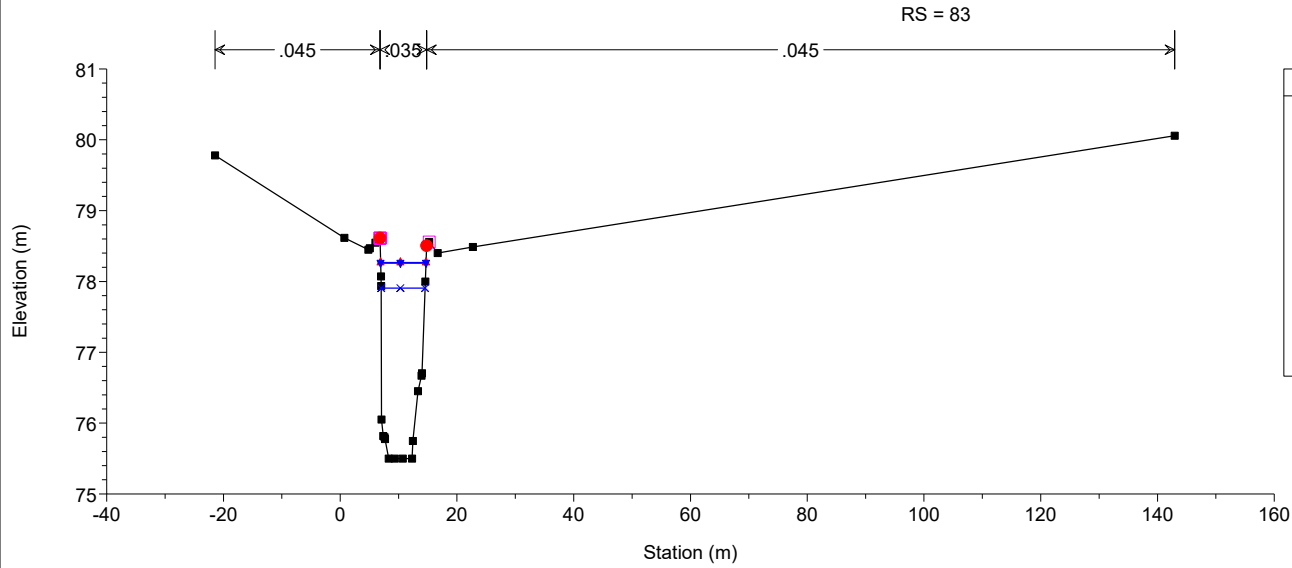
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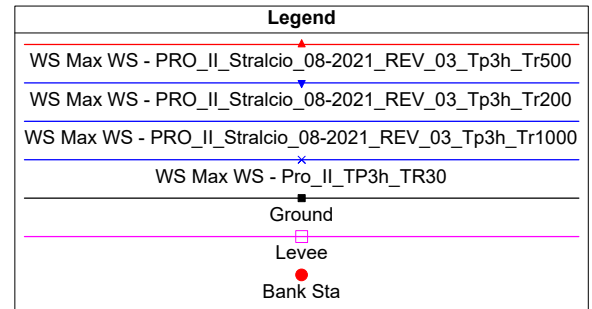
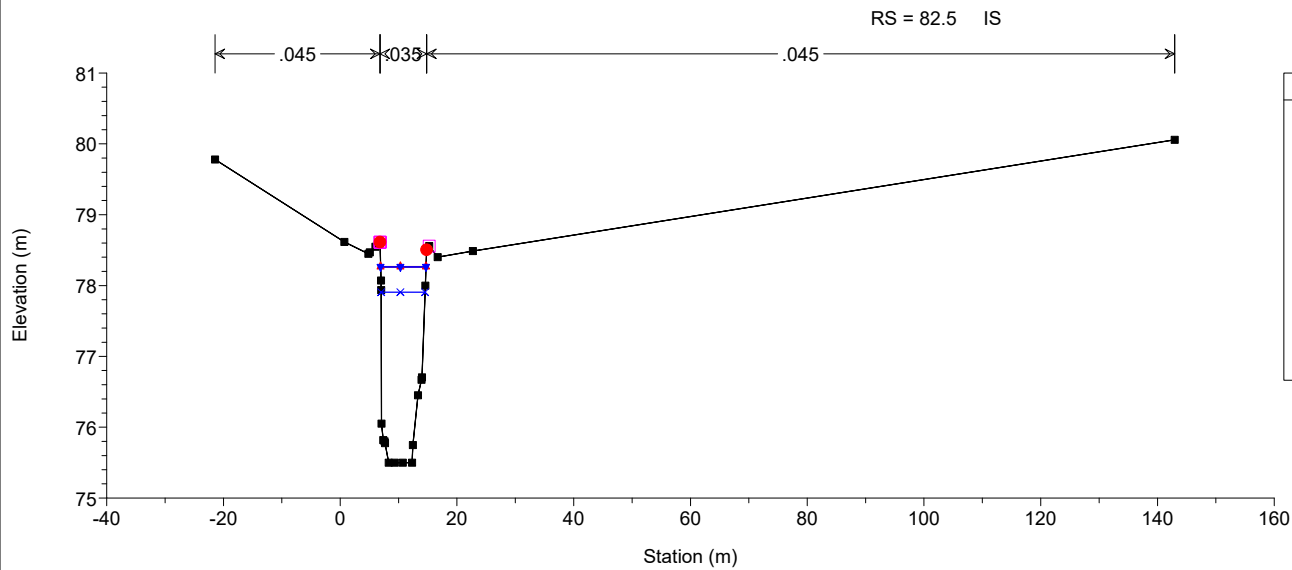
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RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

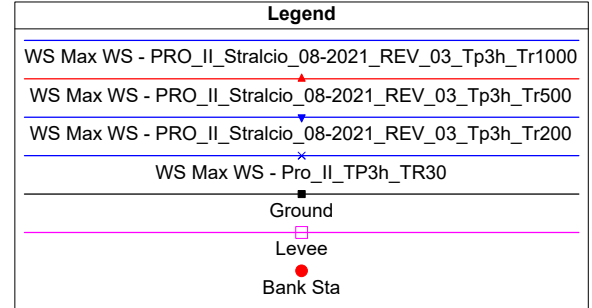
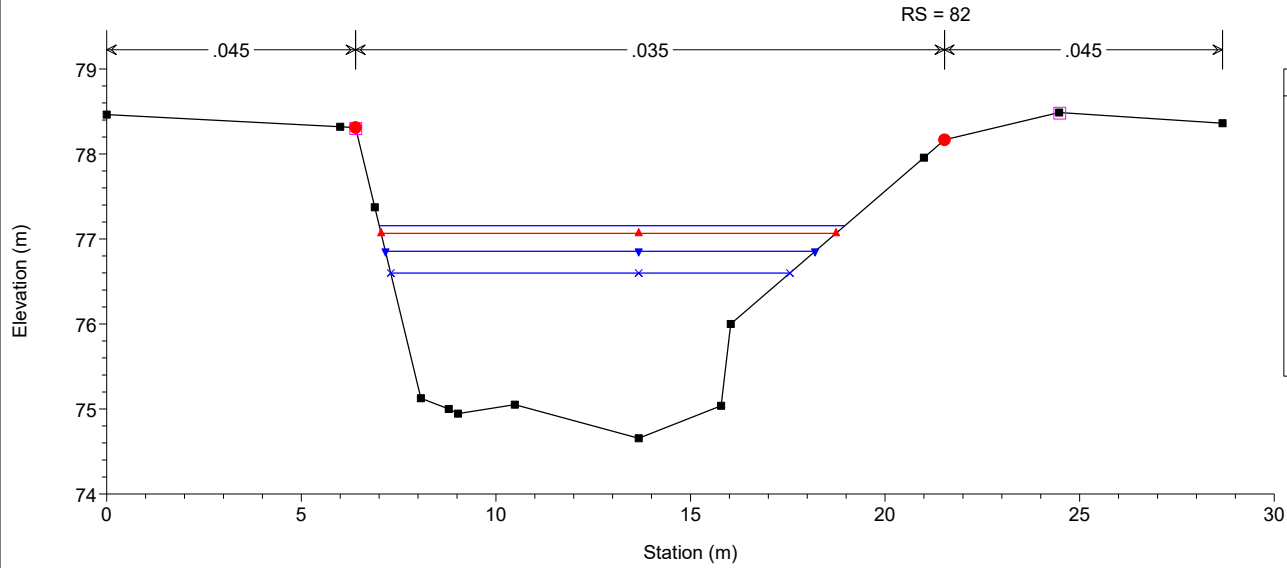


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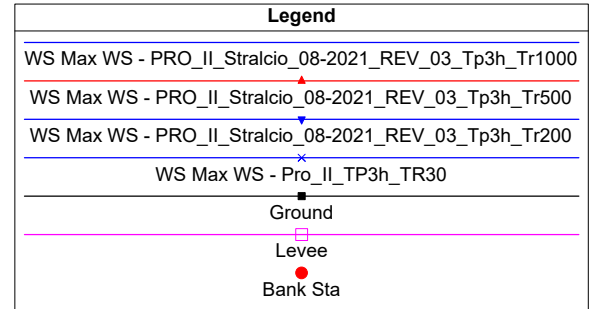
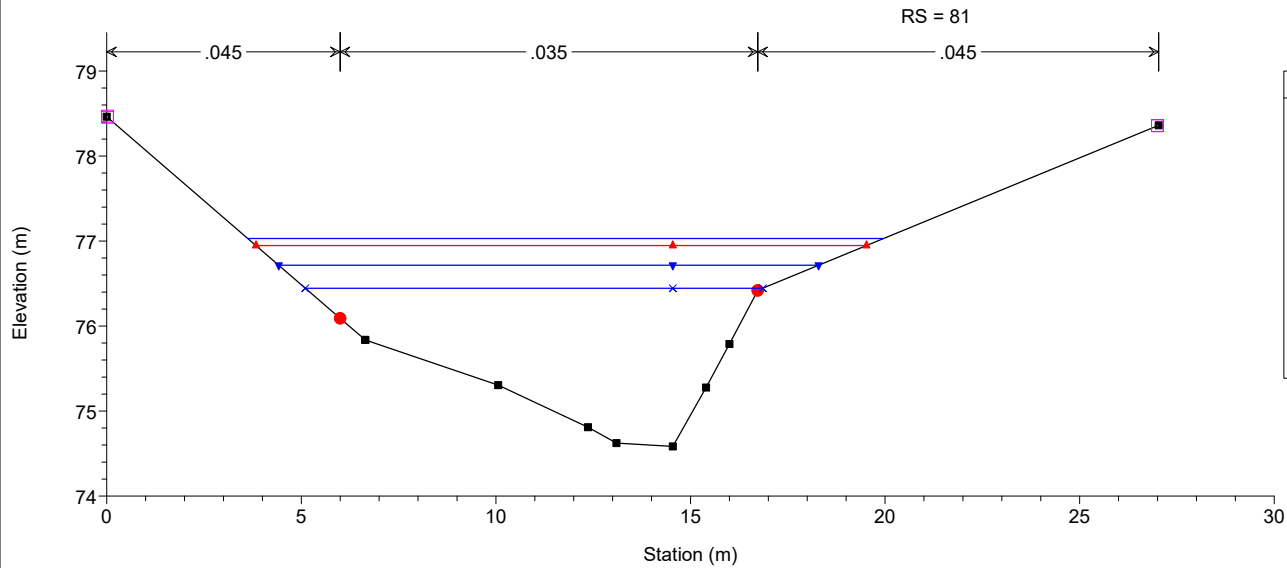


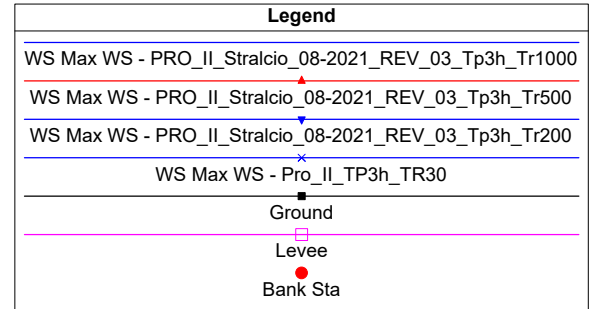
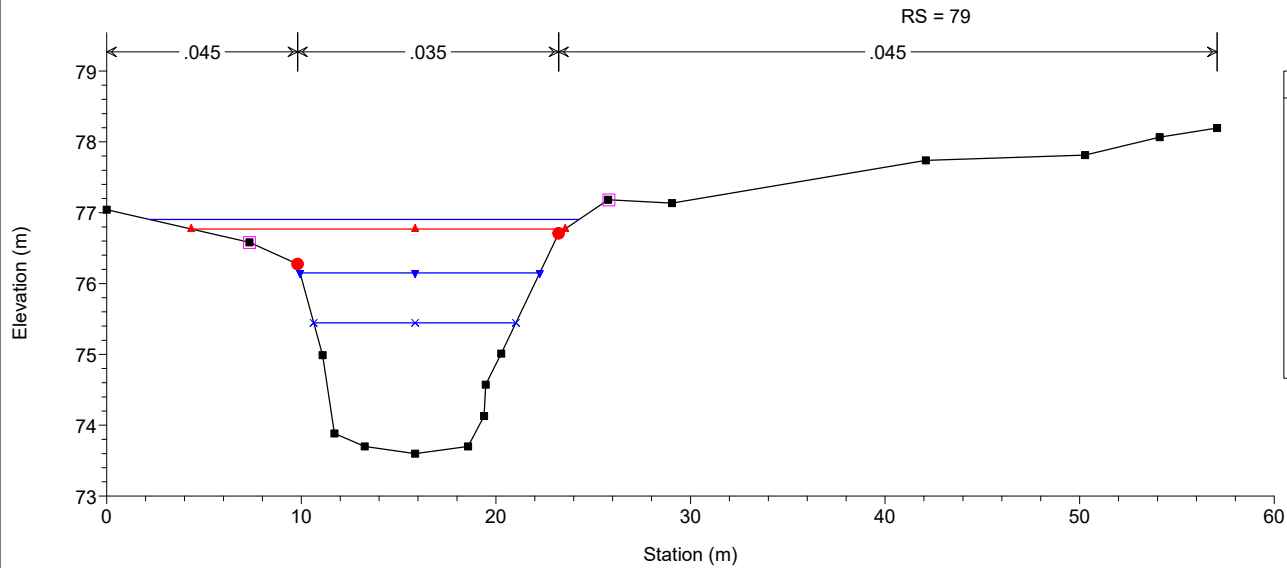
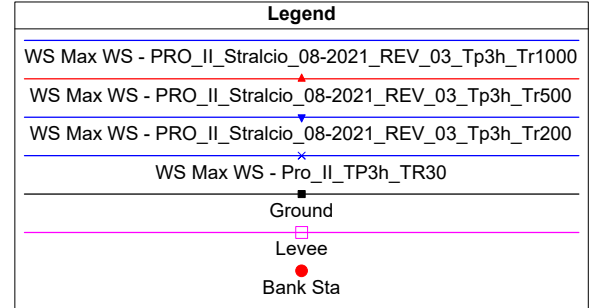
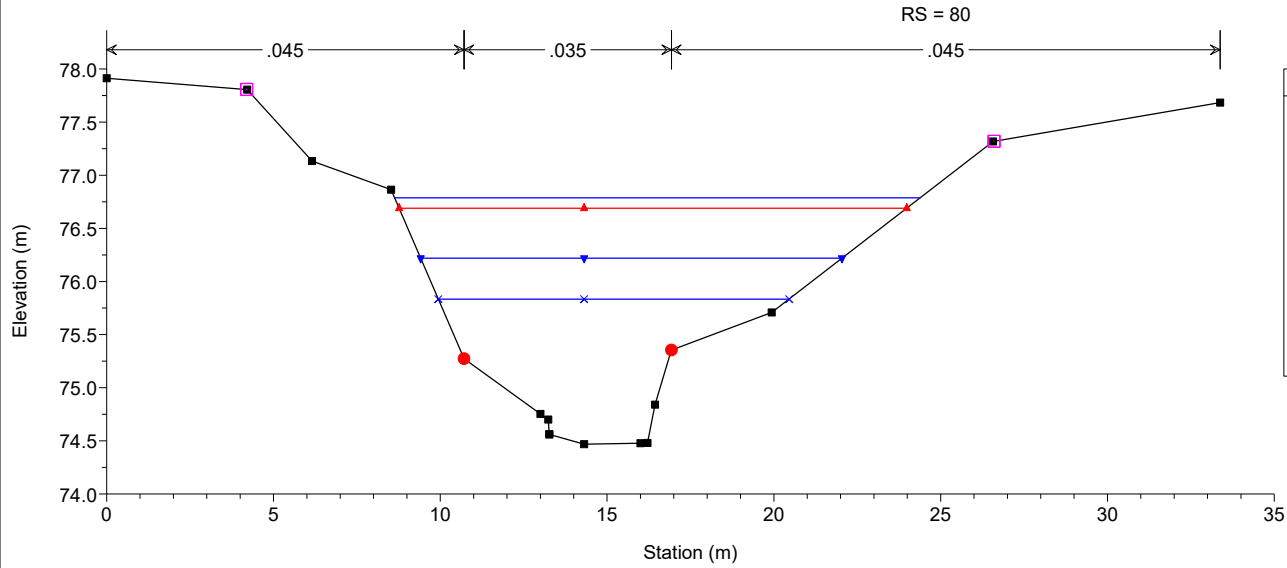


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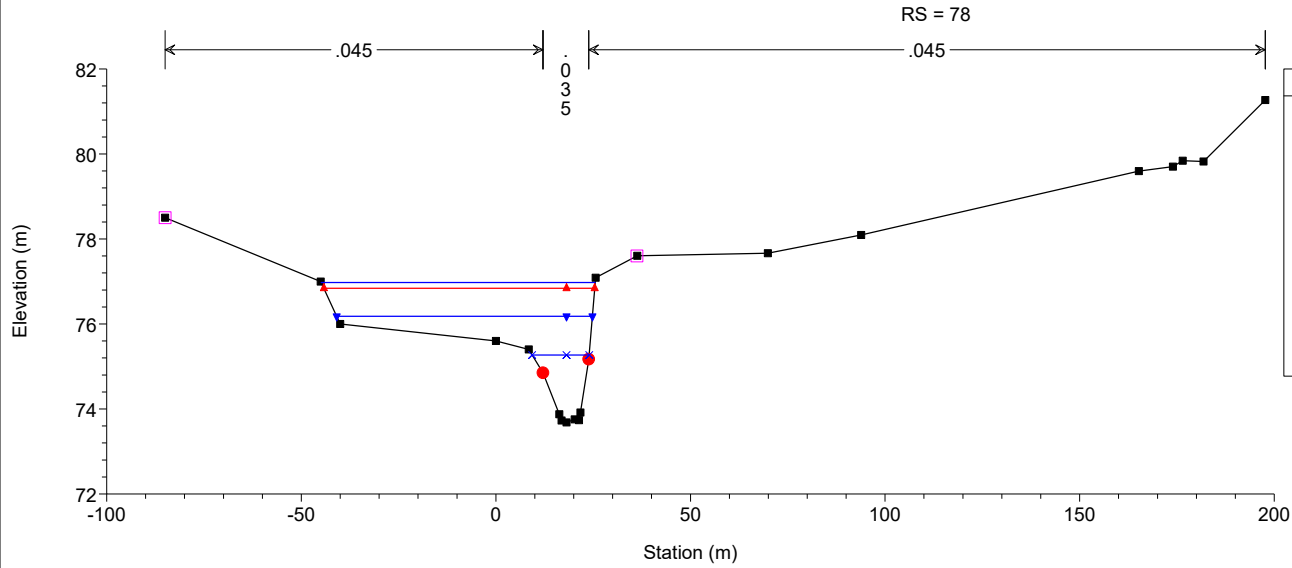


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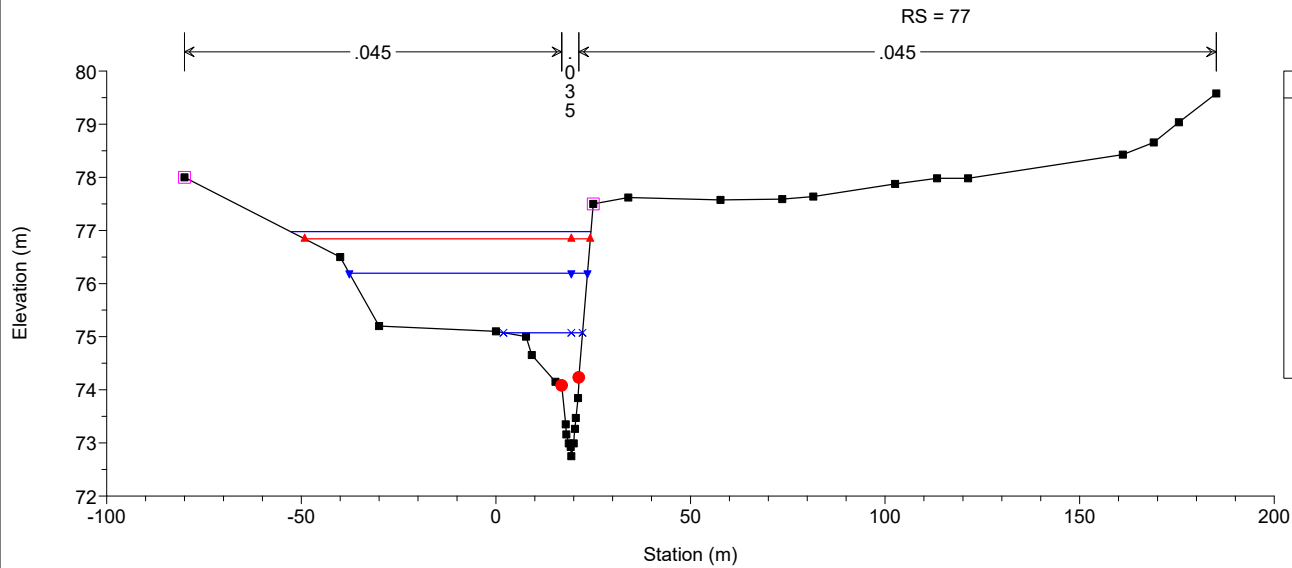




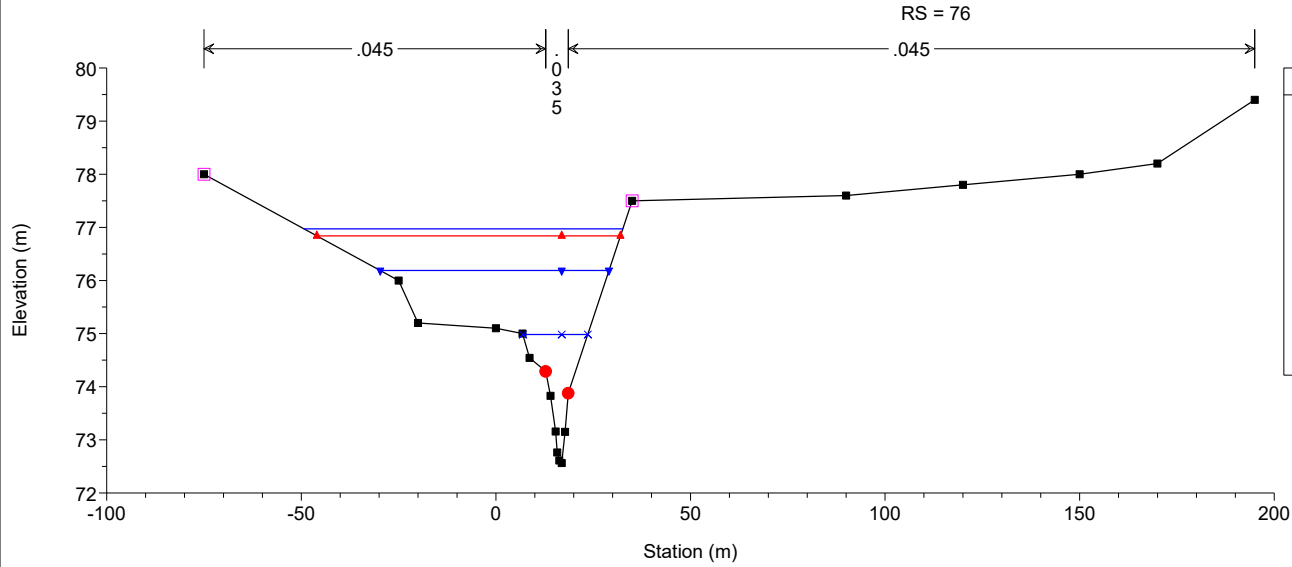
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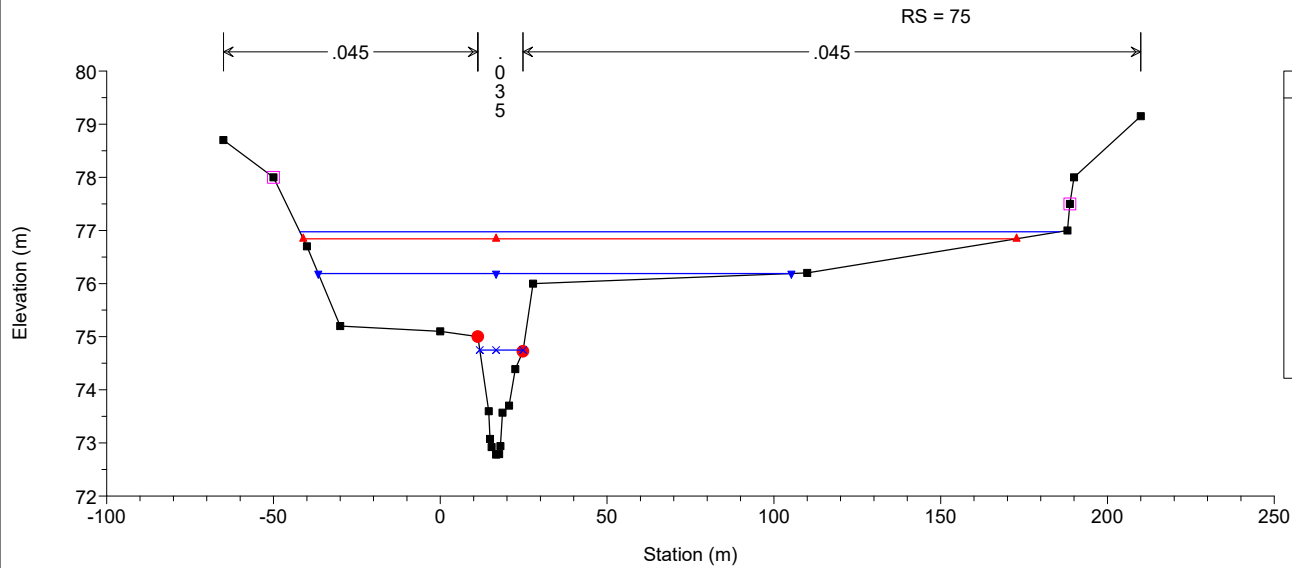
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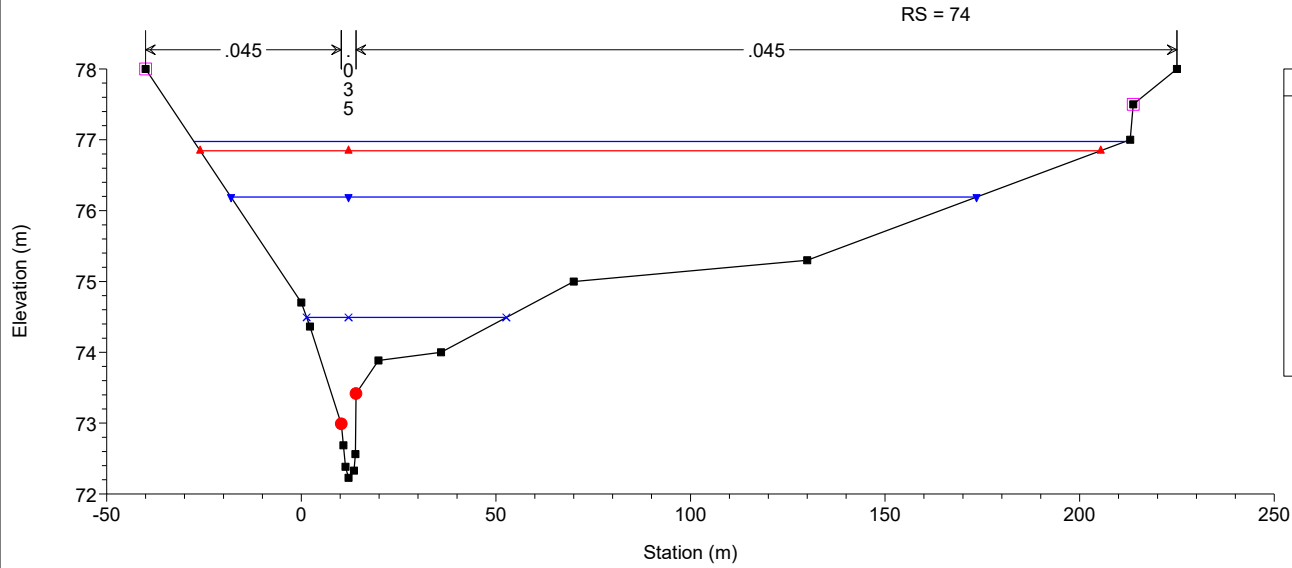
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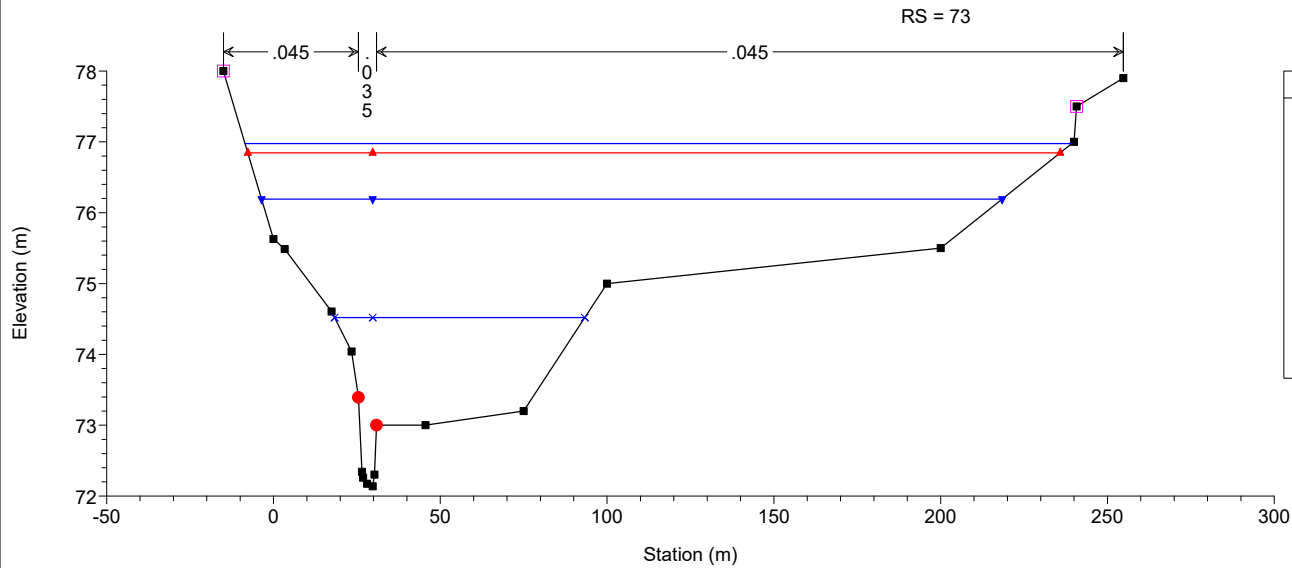
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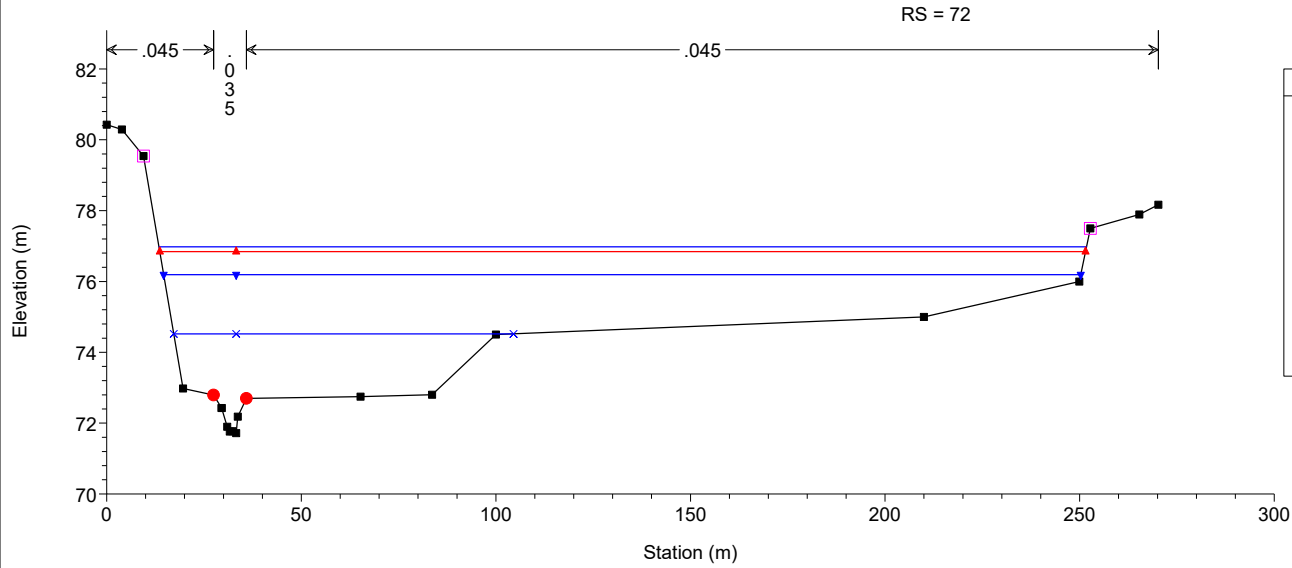
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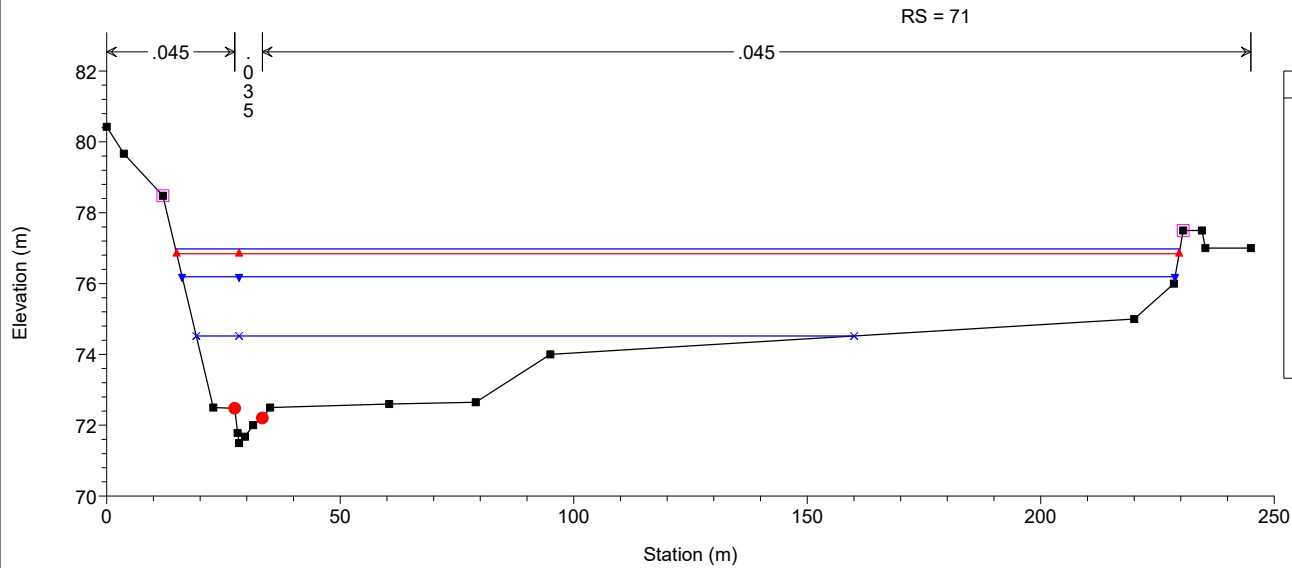


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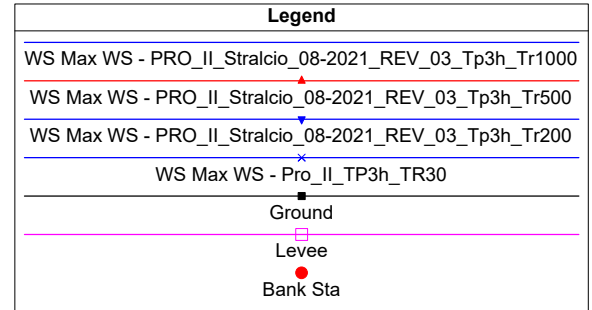
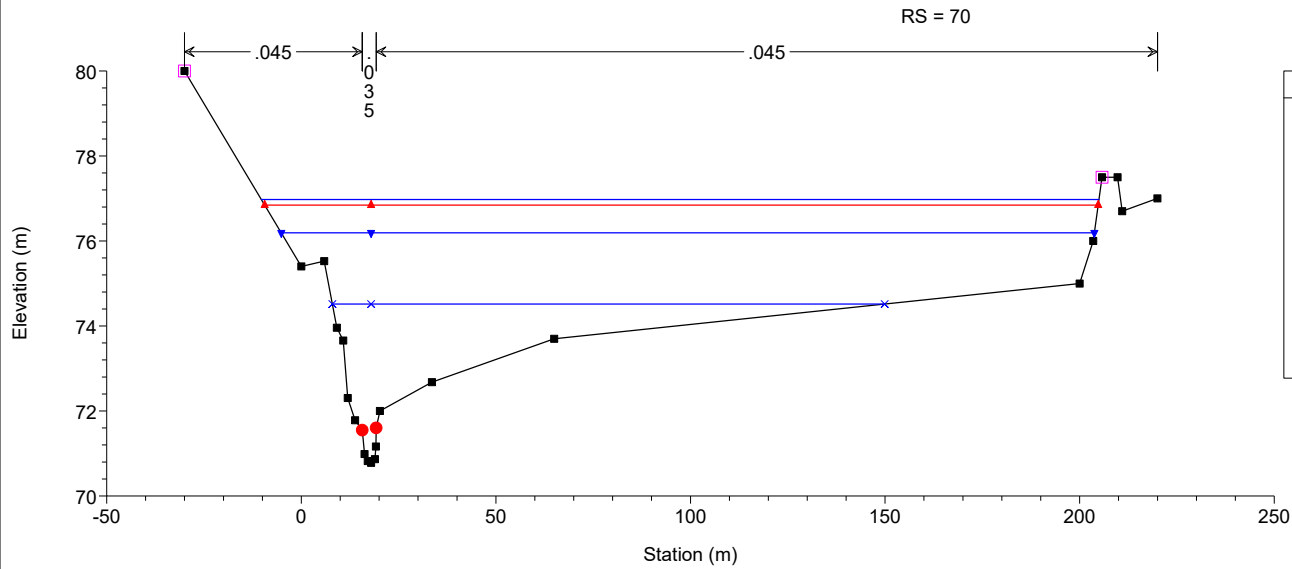
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WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	×
WS Max WS - Pro_II_TP3h_TR30	■
Ground	—
Levee	□
Bank Sta	●

RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

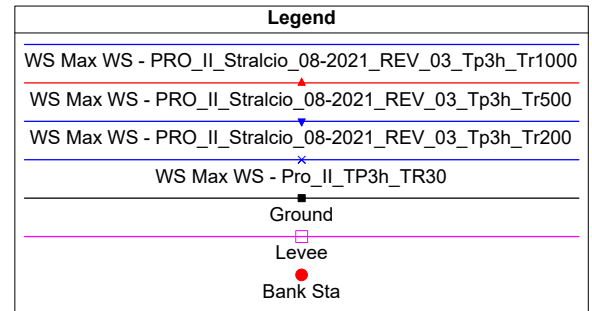
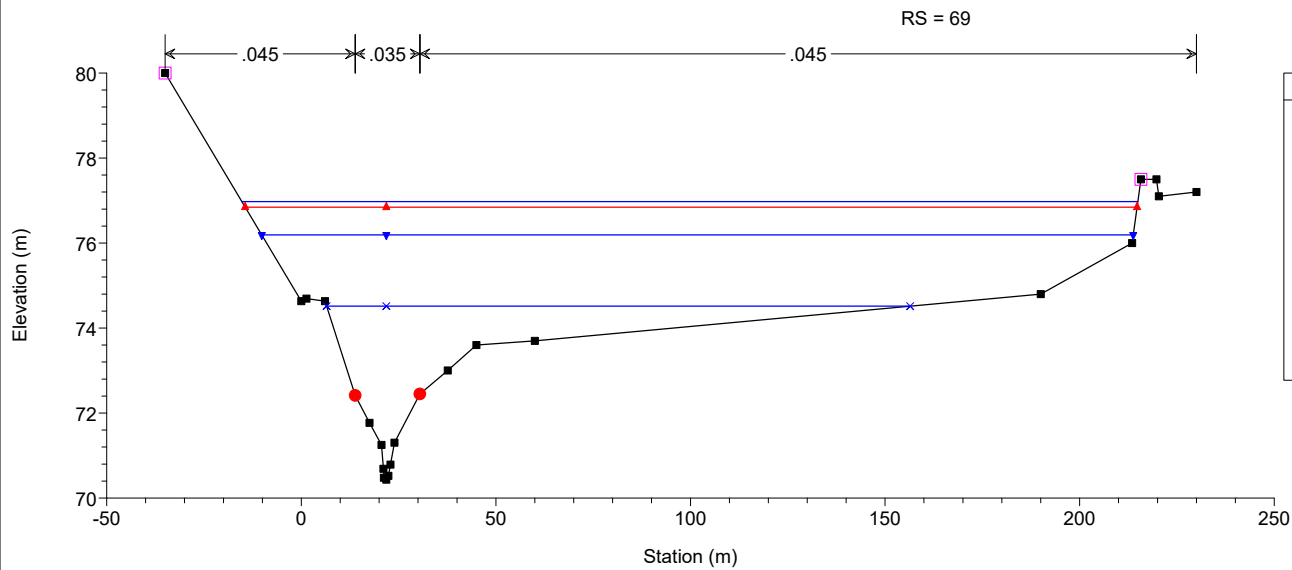


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	×
WS Max WS - Pro_II_TP3h_TR30	■
Ground	—
Levee	□
Bank Sta	●

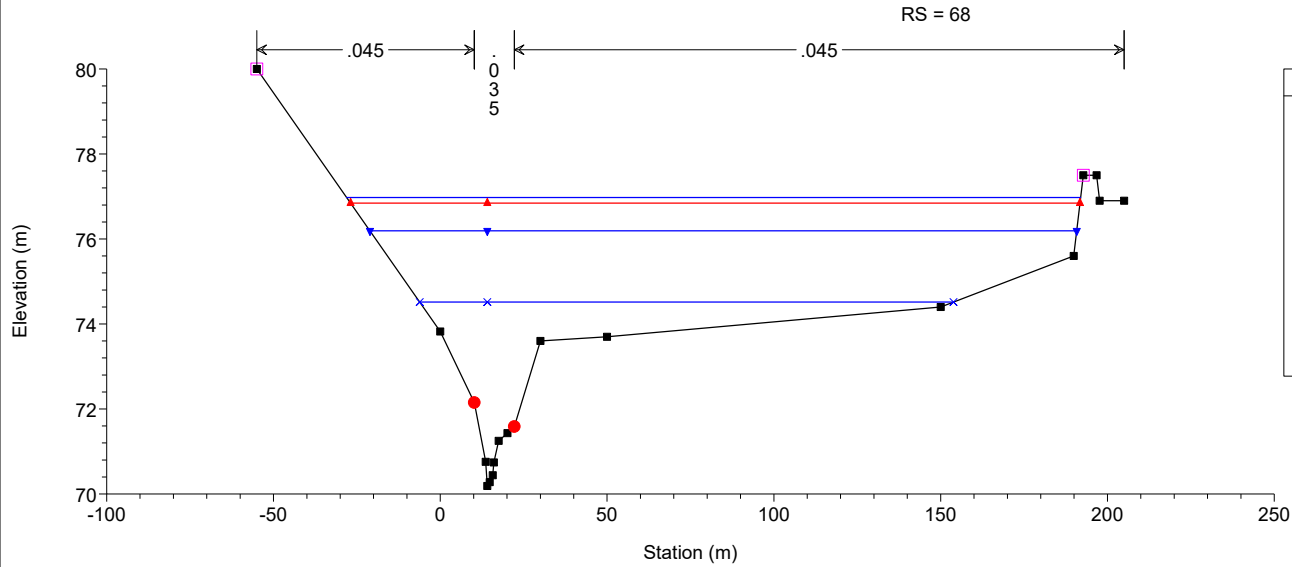
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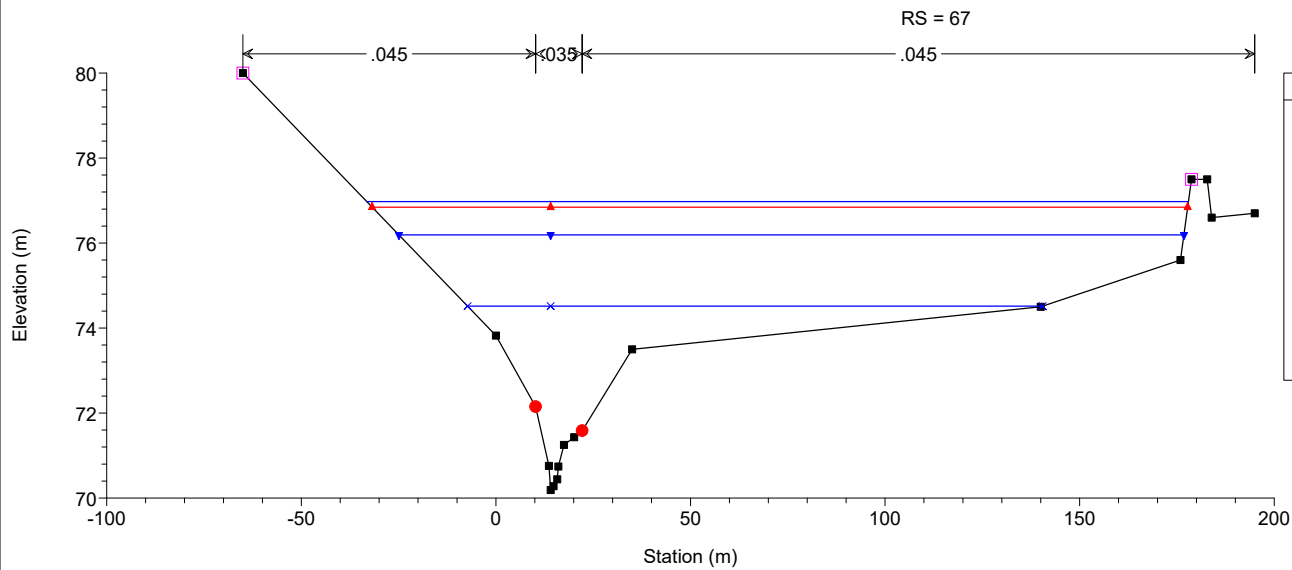
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RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

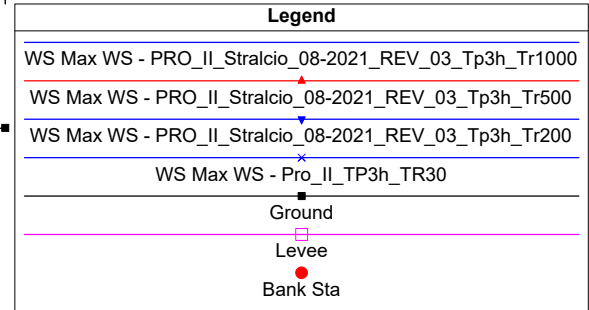
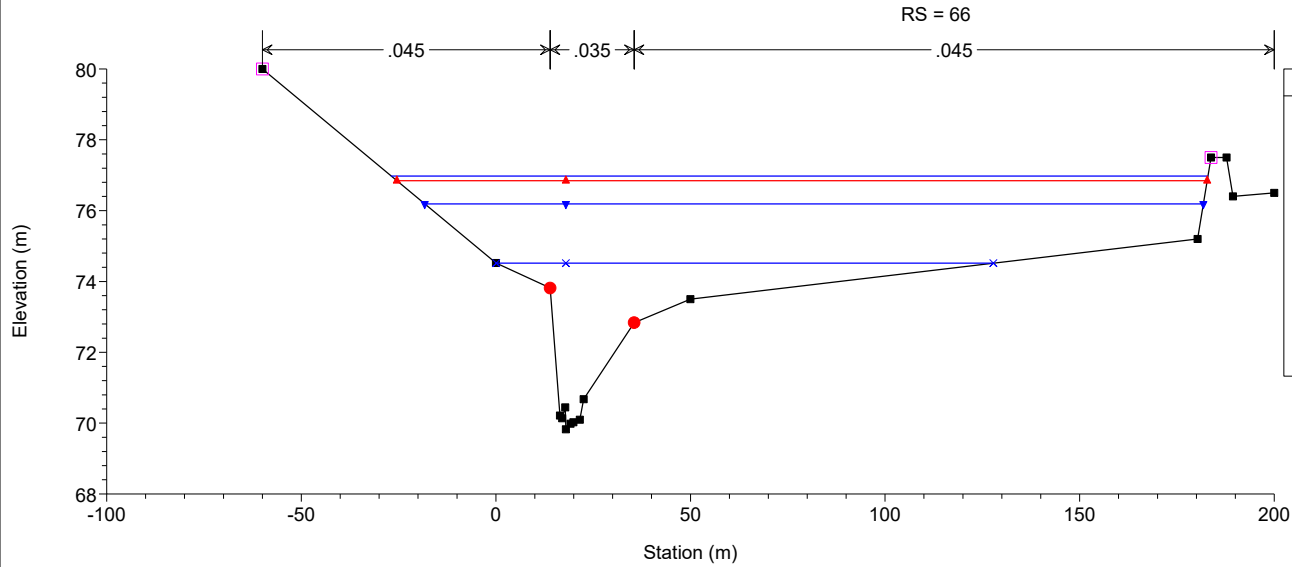


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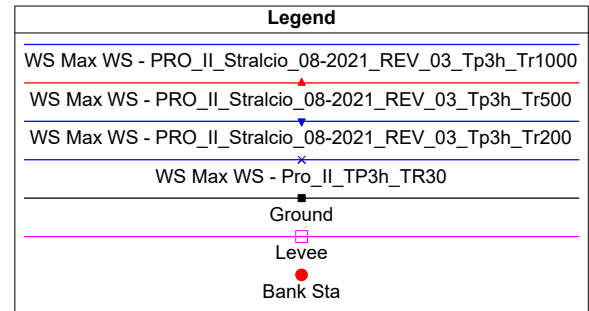
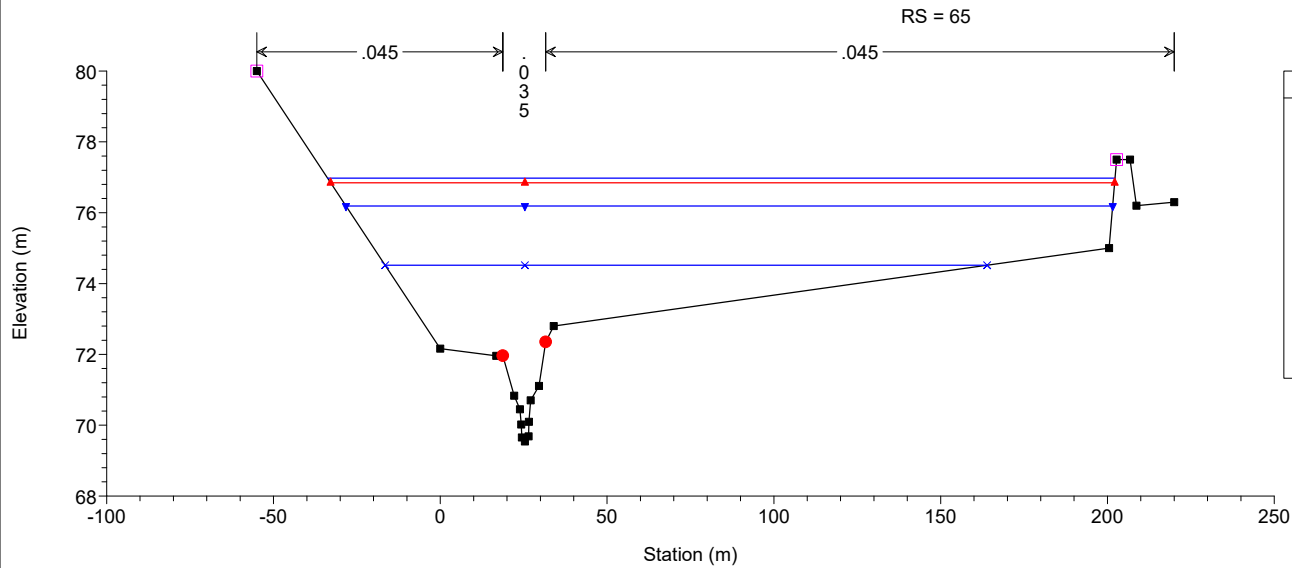




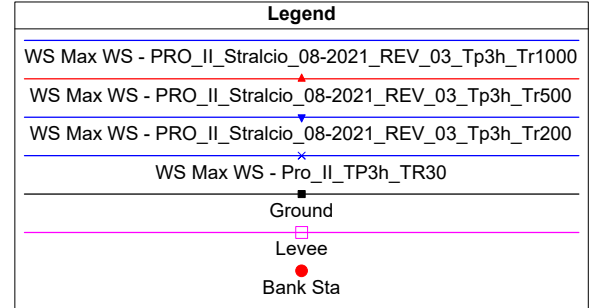
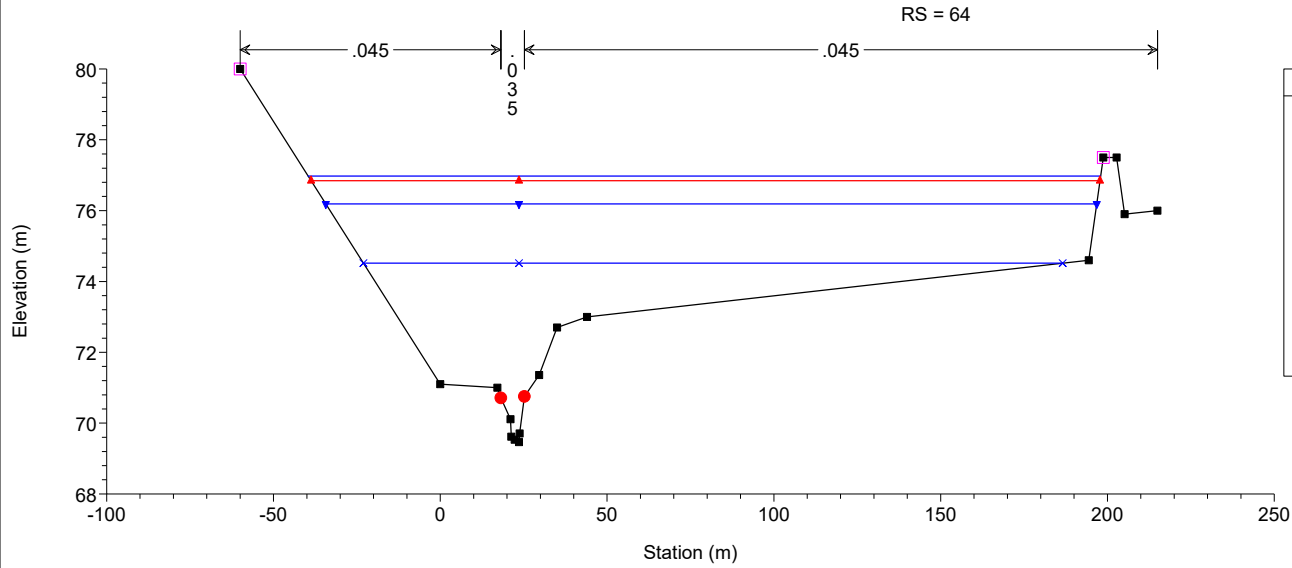
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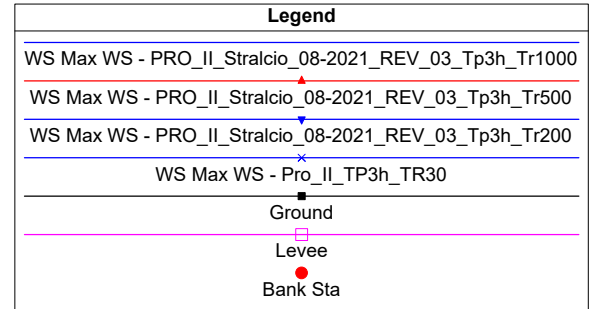
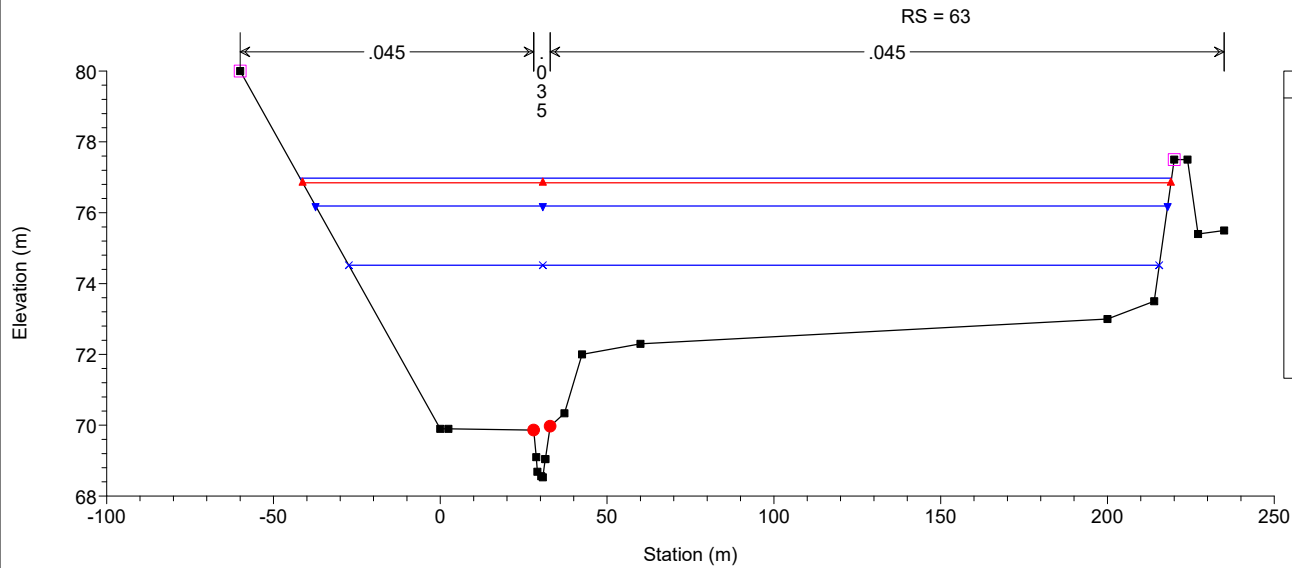
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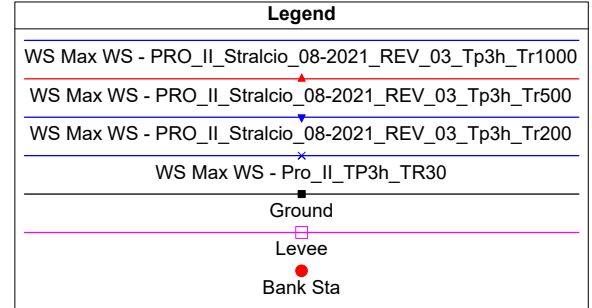
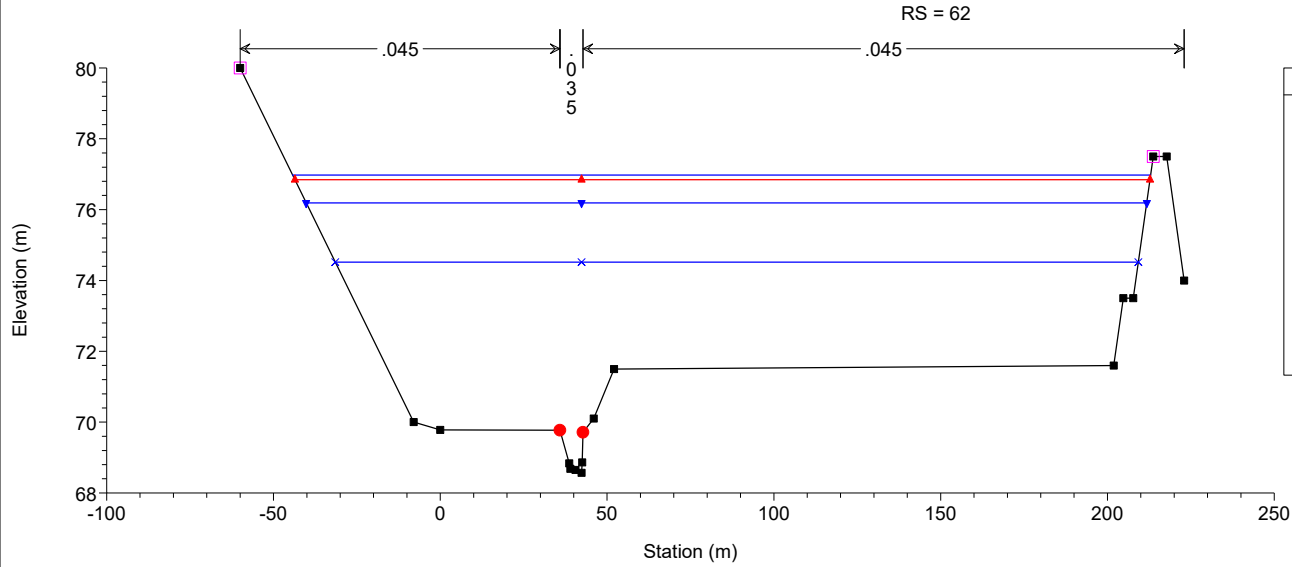
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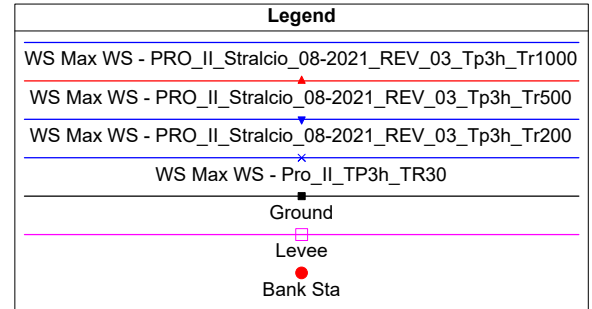
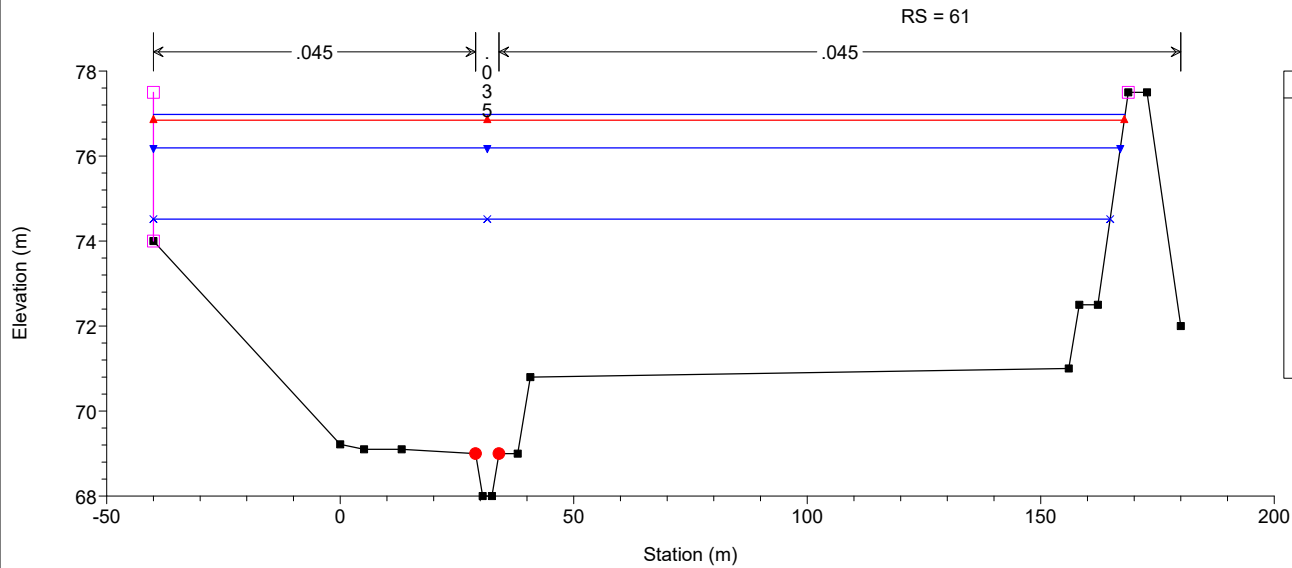
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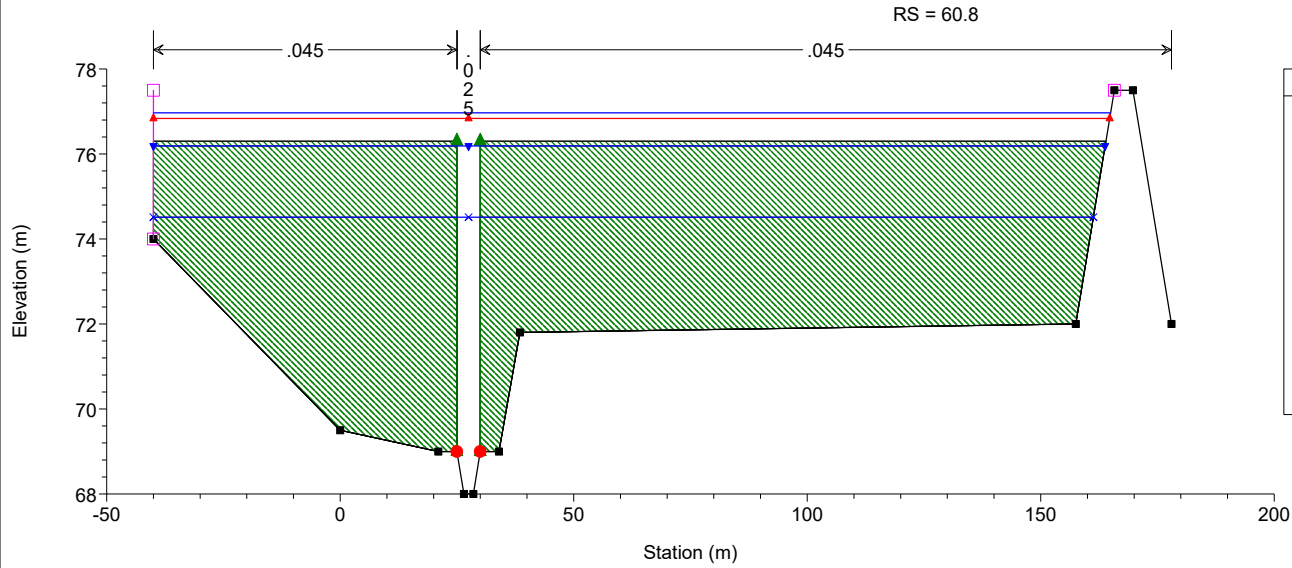


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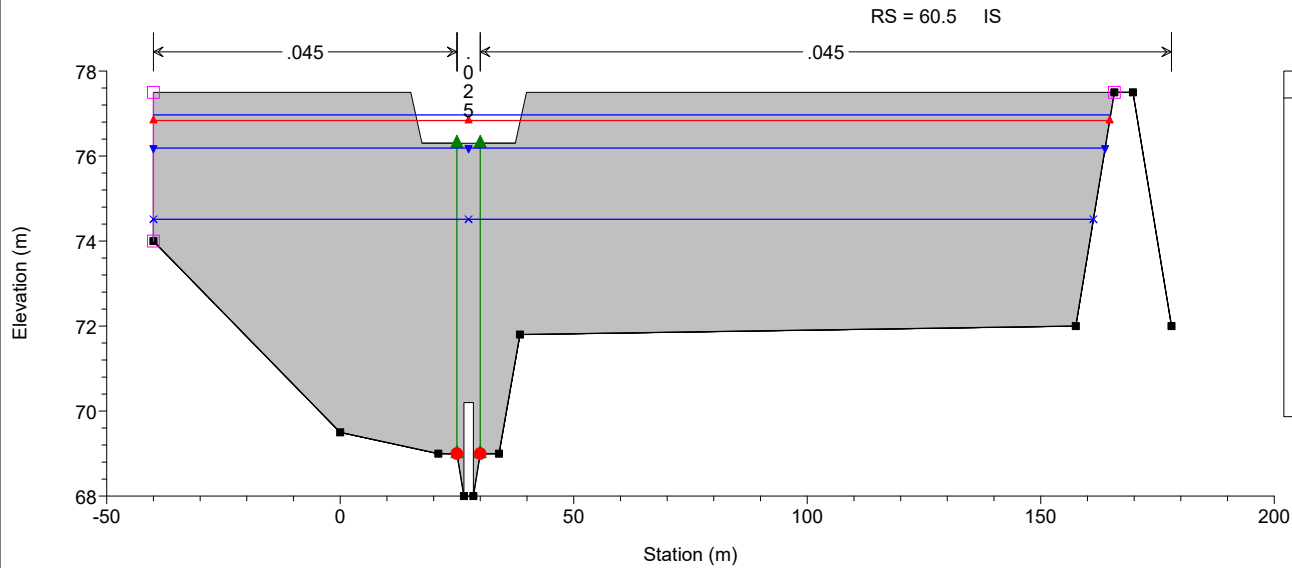


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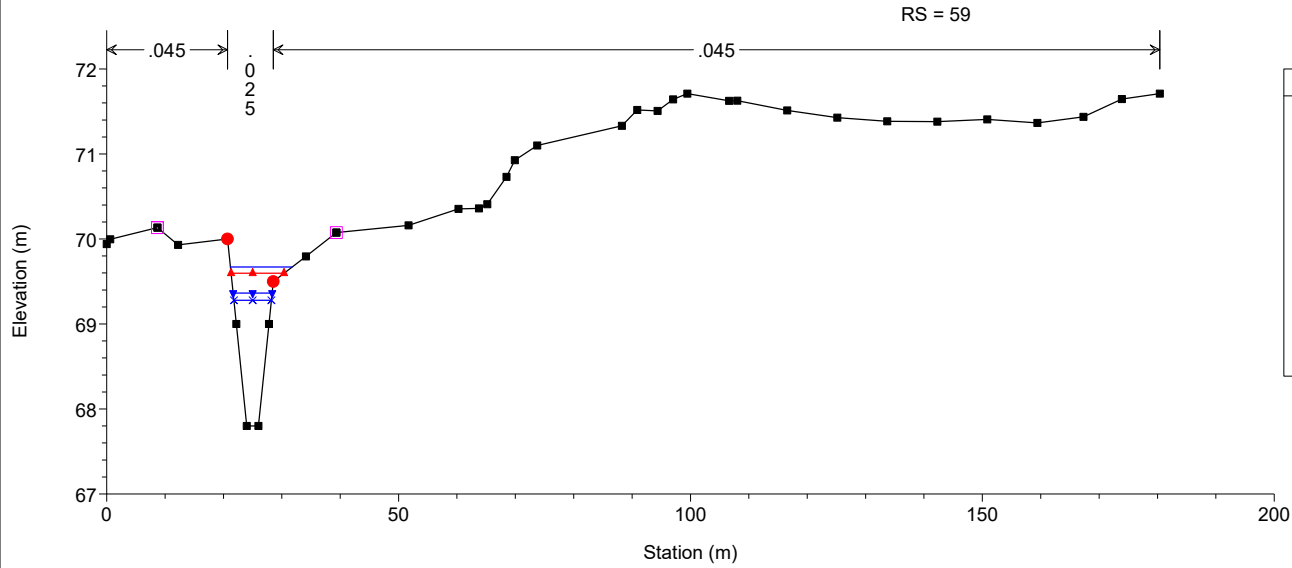


Legend	
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WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	✕
WS Max WS - Pro_II_TP3h_TR30	✕
Ground	■
Levee	□
Ineff	▲
Bank Sta	●

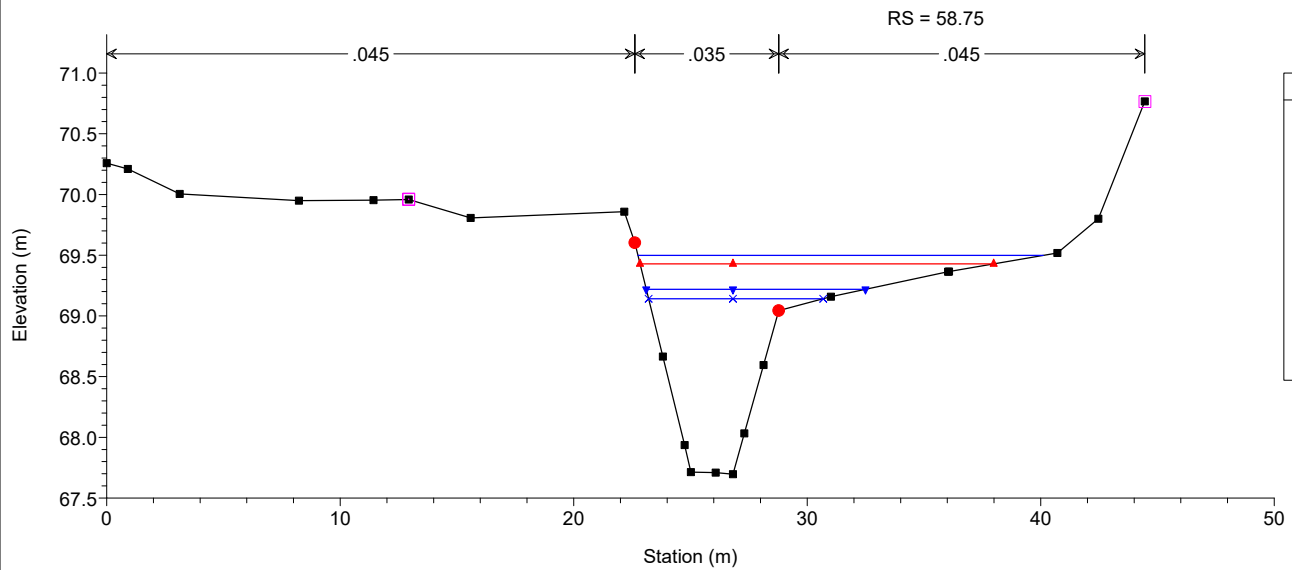


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	✕
WS Max WS - Pro_II_TP3h_TR30	✕
Ground	■
Levee	□
Ineff	▲
Bank Sta	●

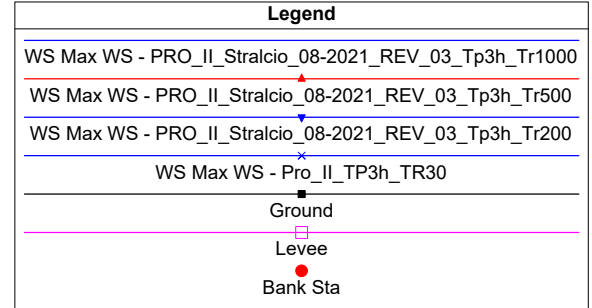
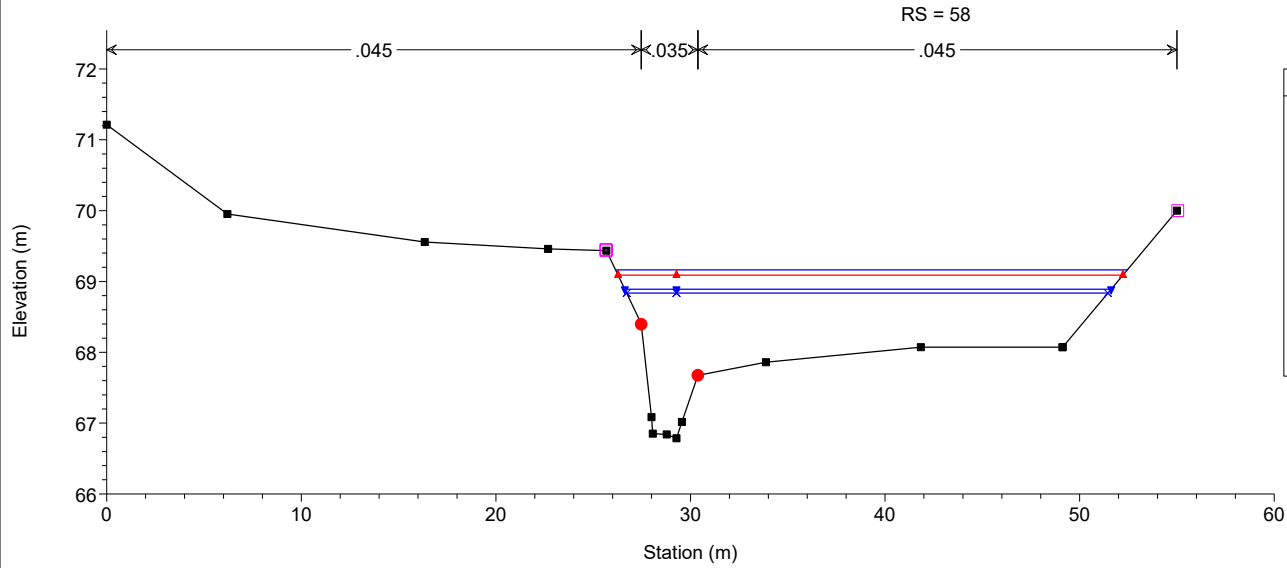
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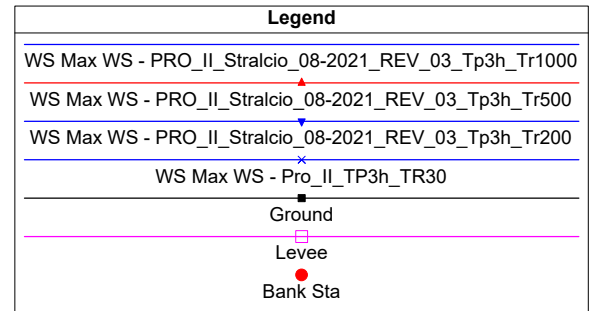
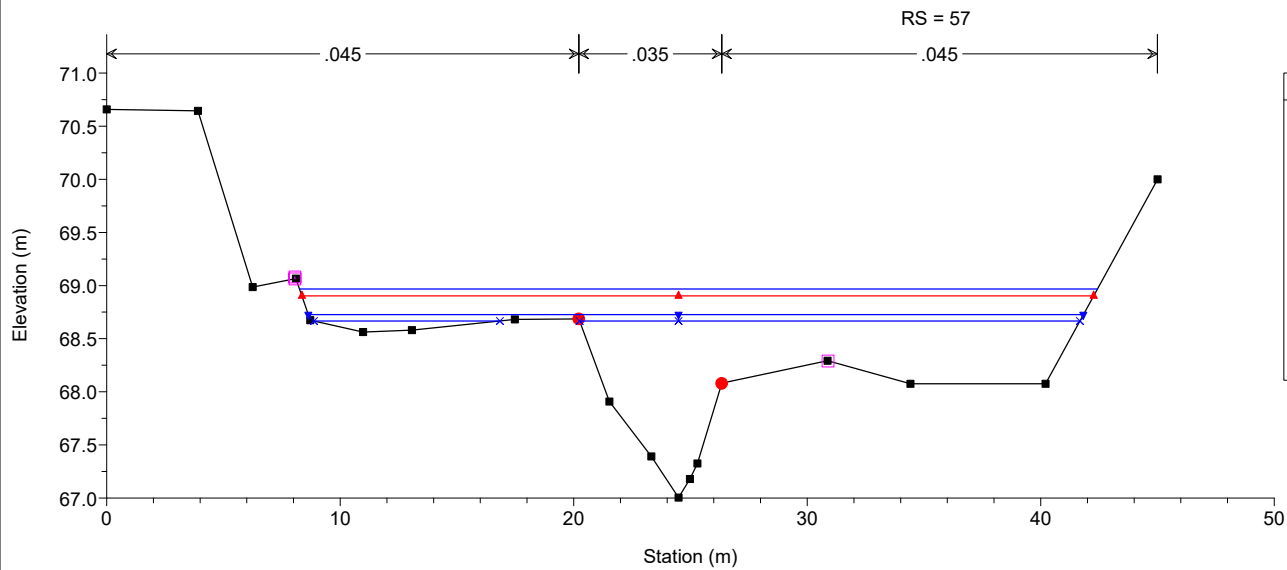
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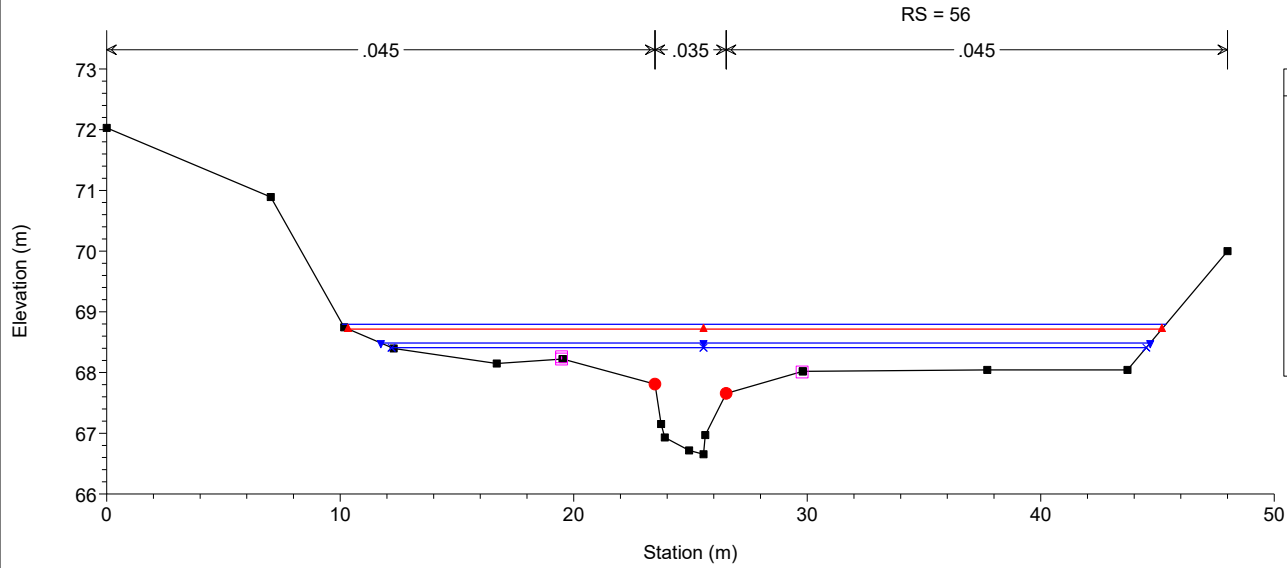
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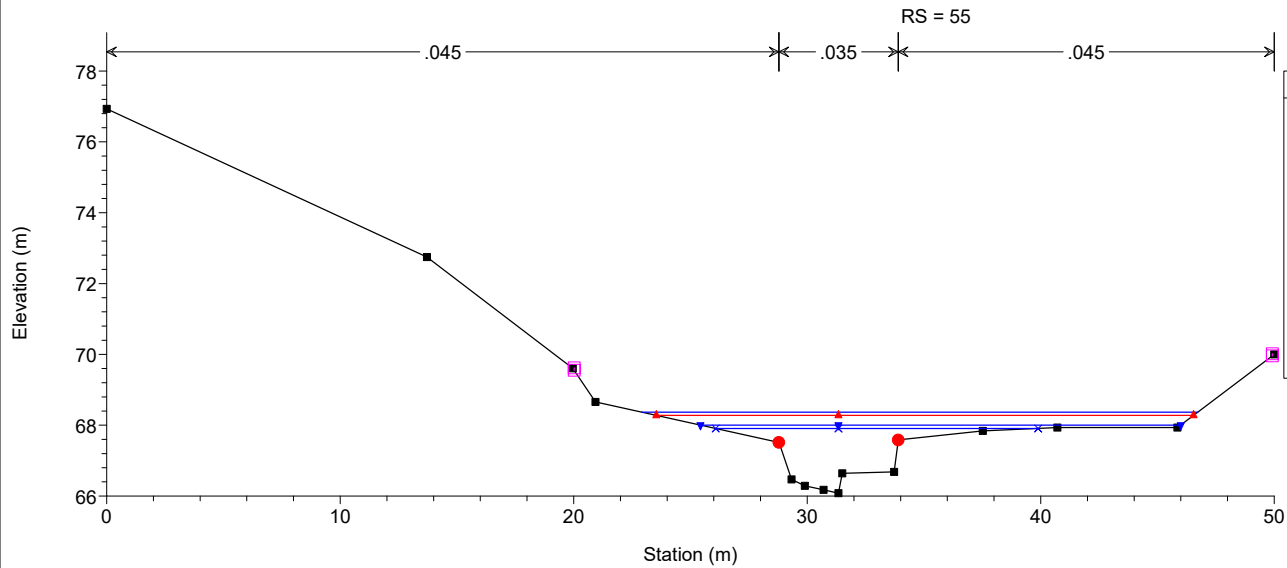
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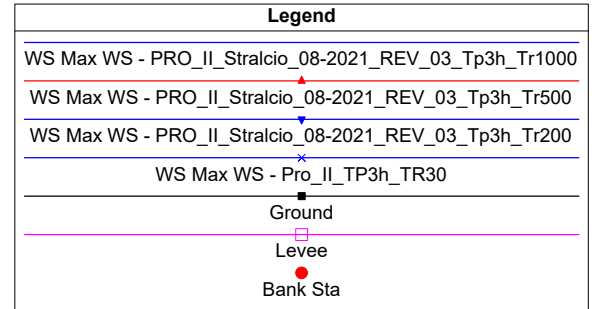
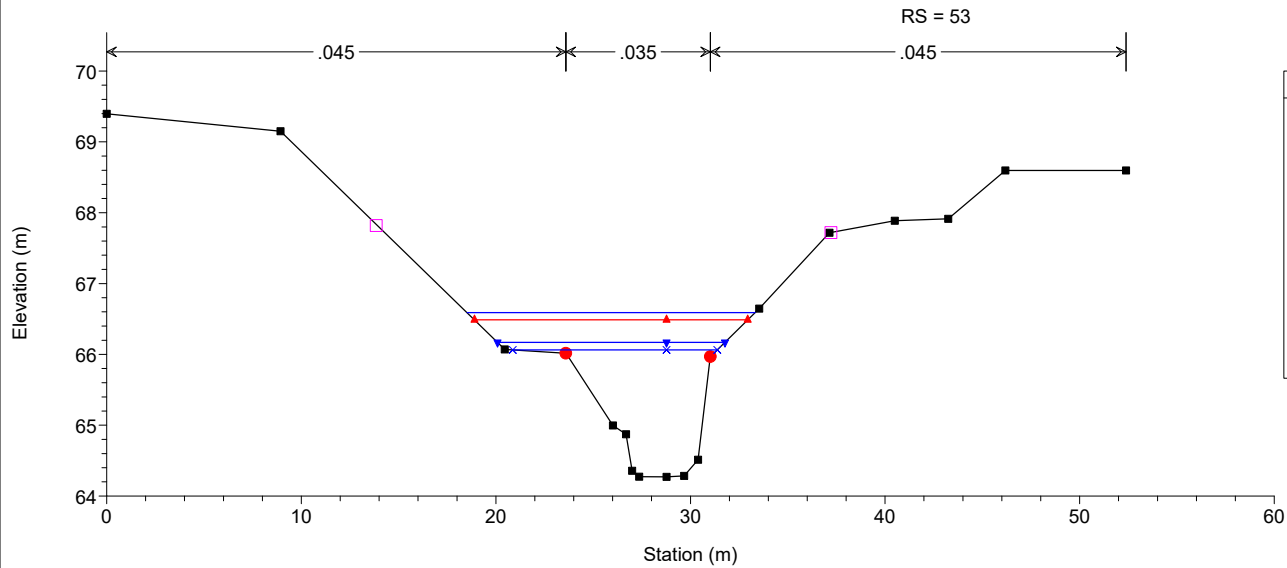
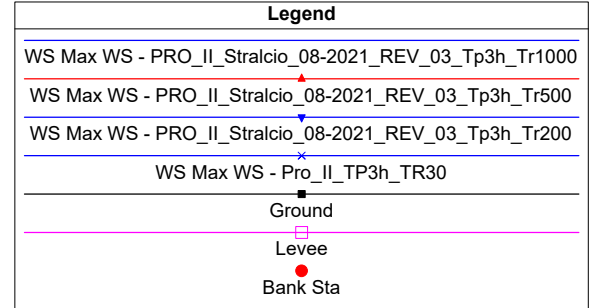
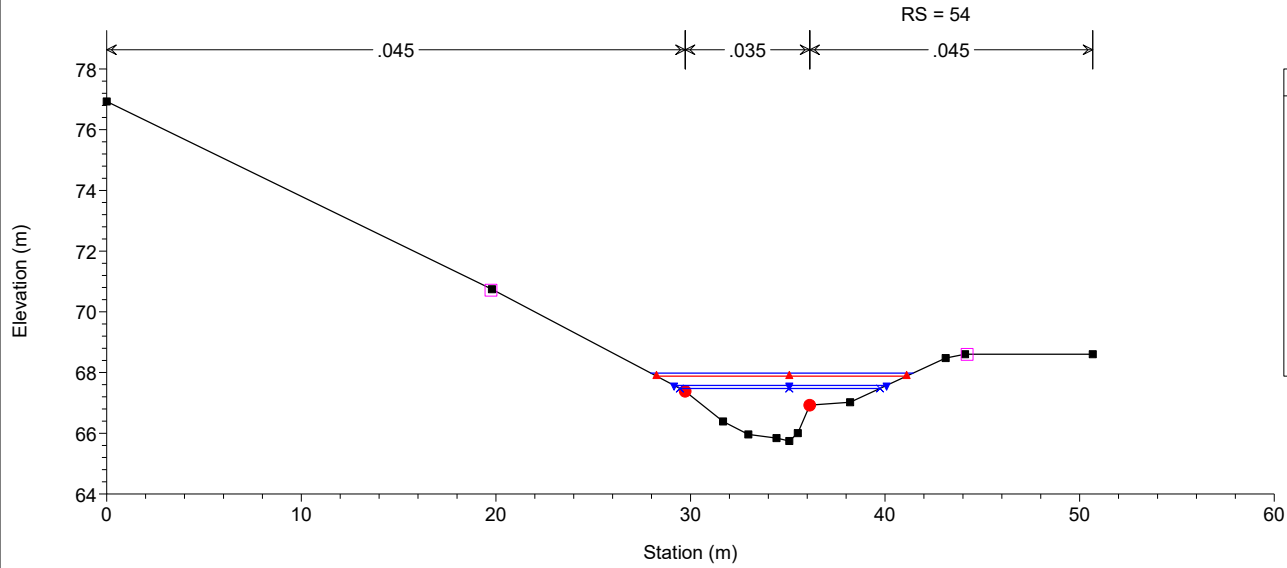


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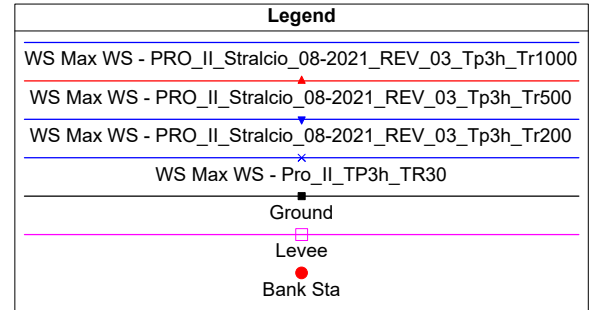
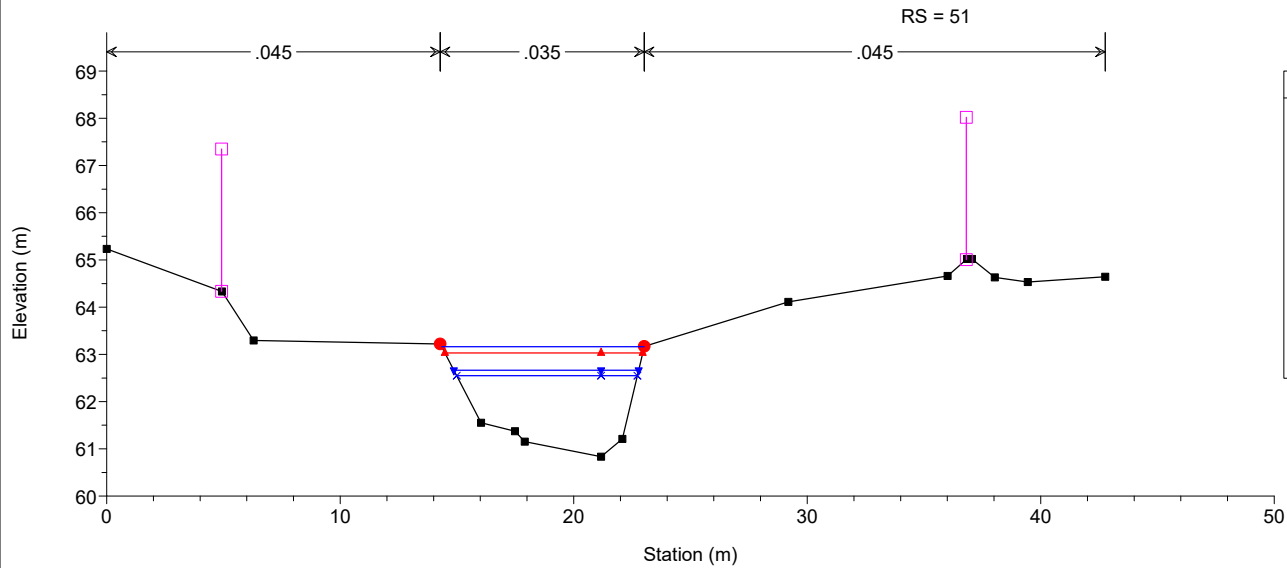
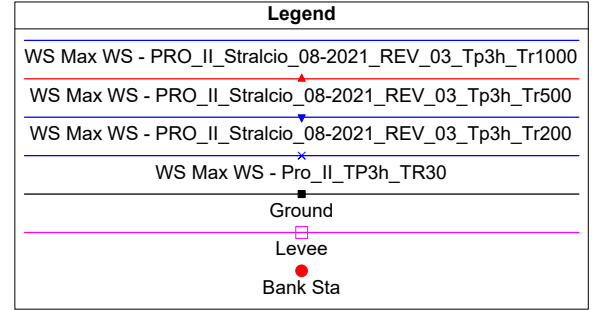
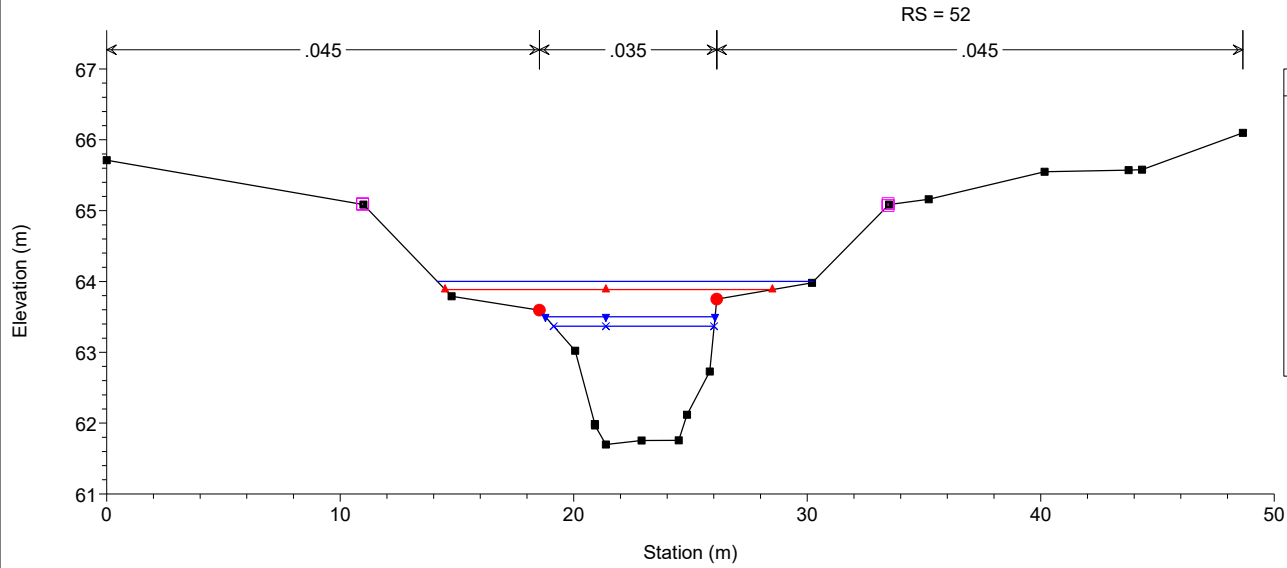


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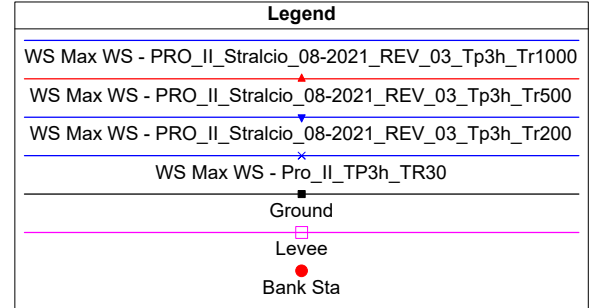
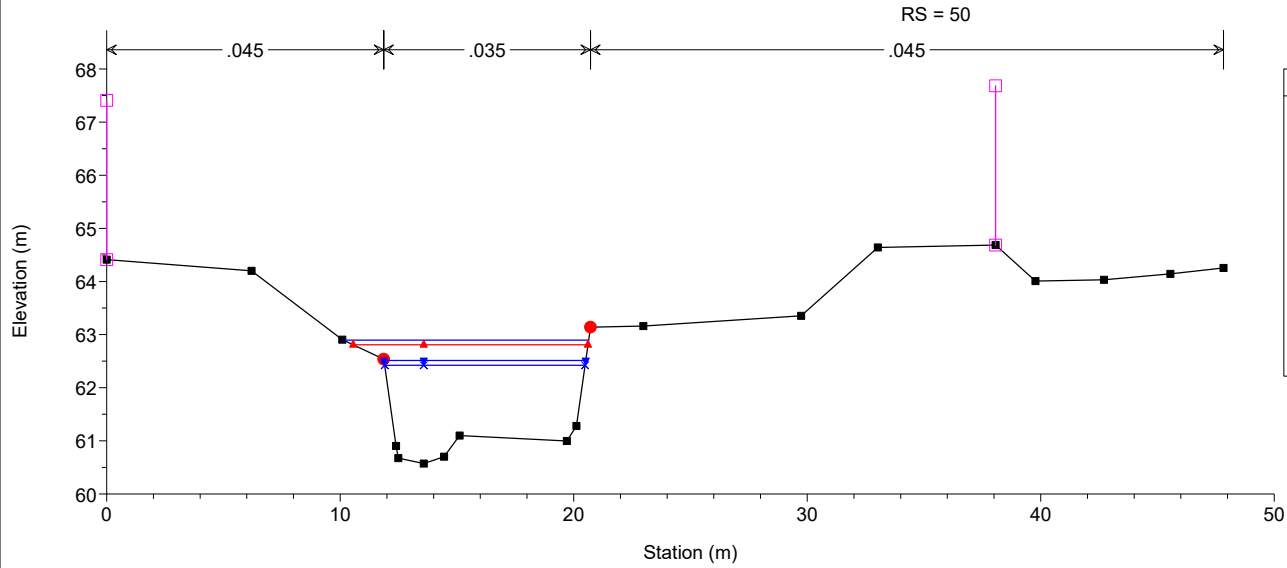




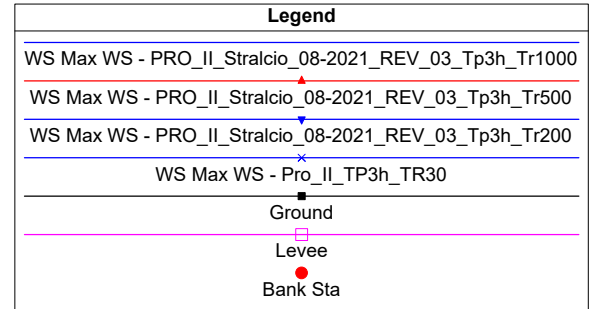
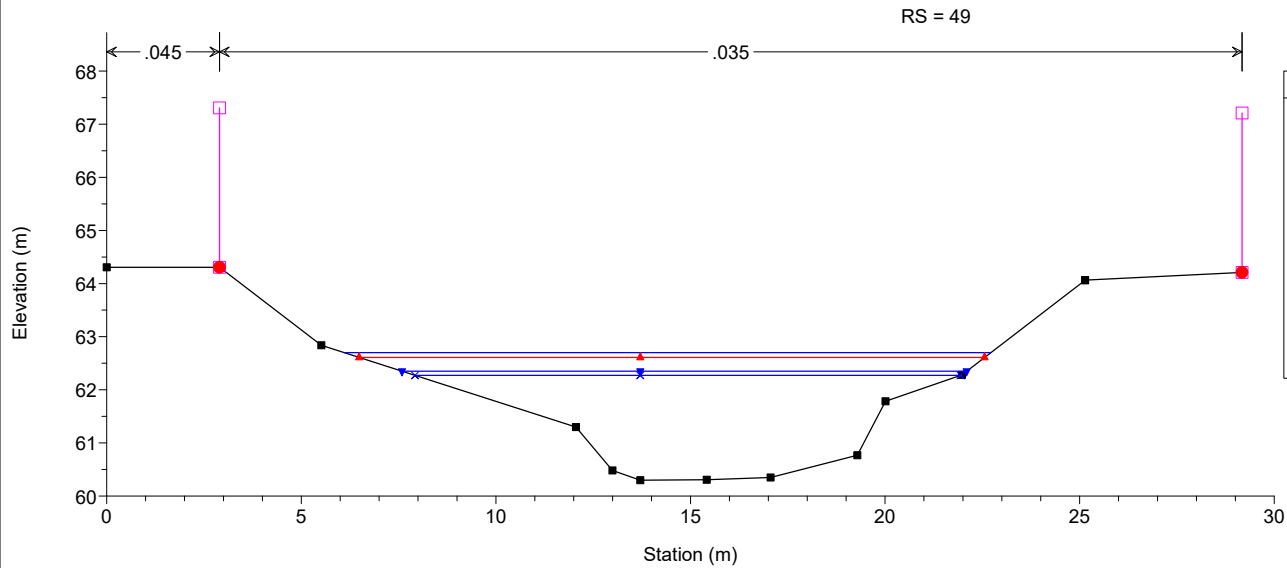




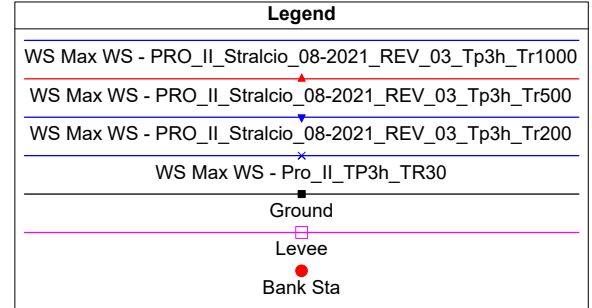
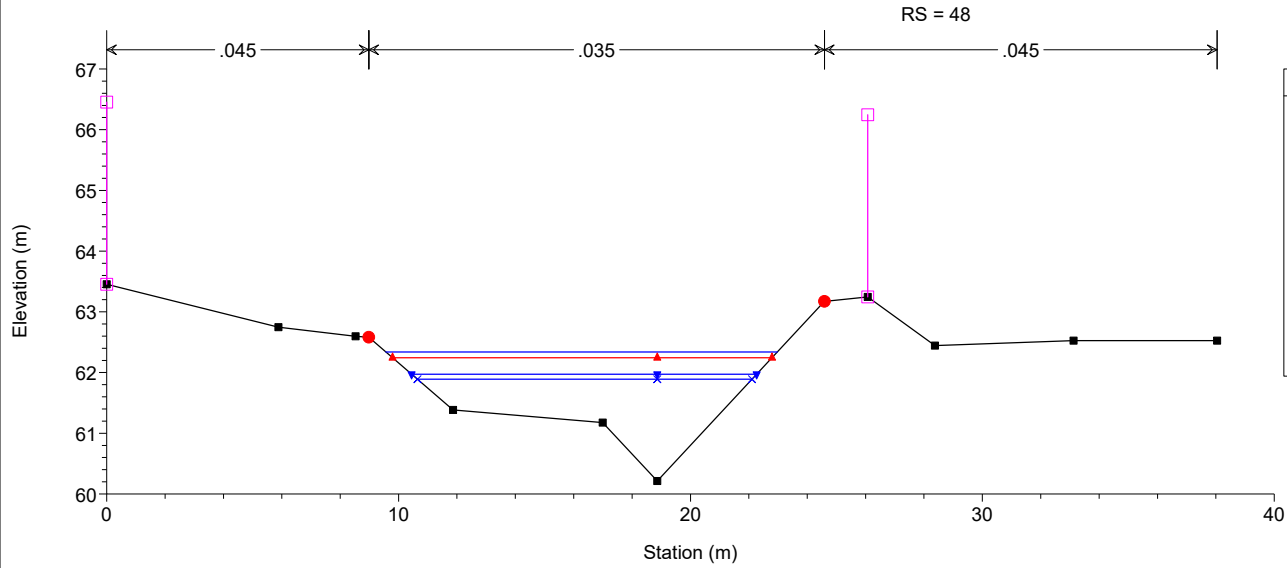
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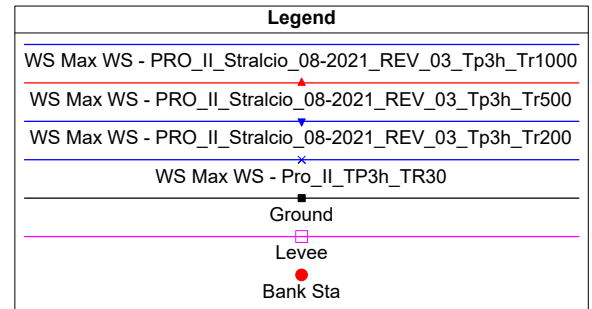
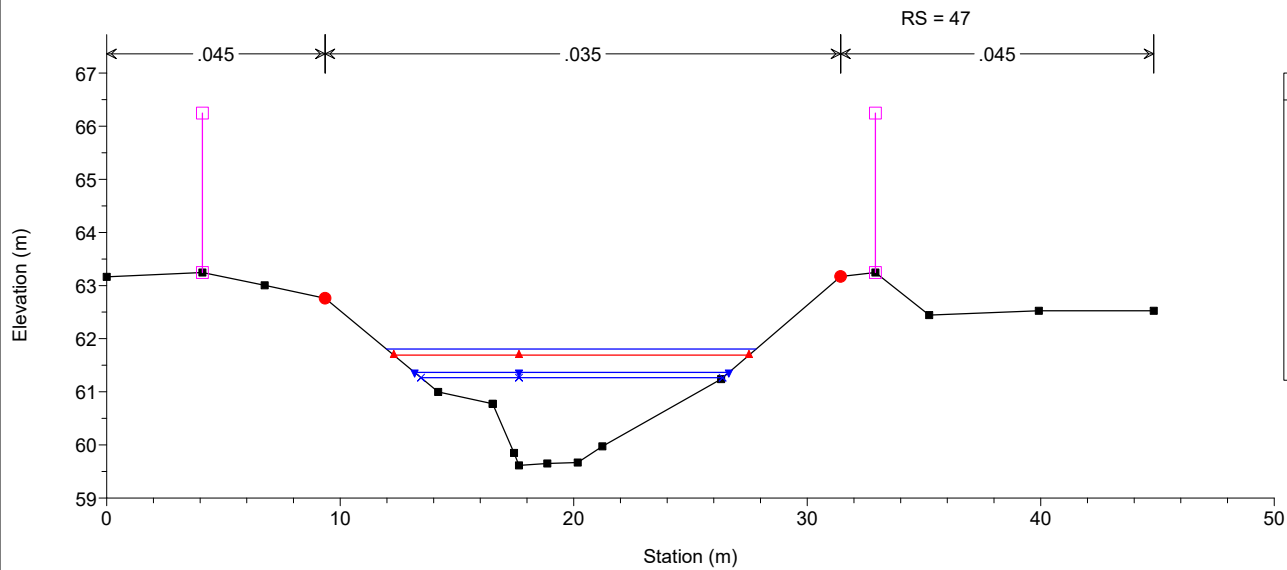
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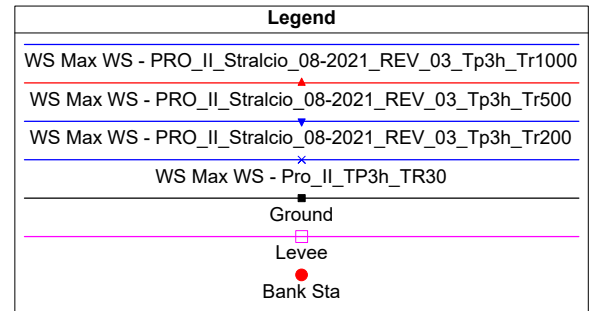
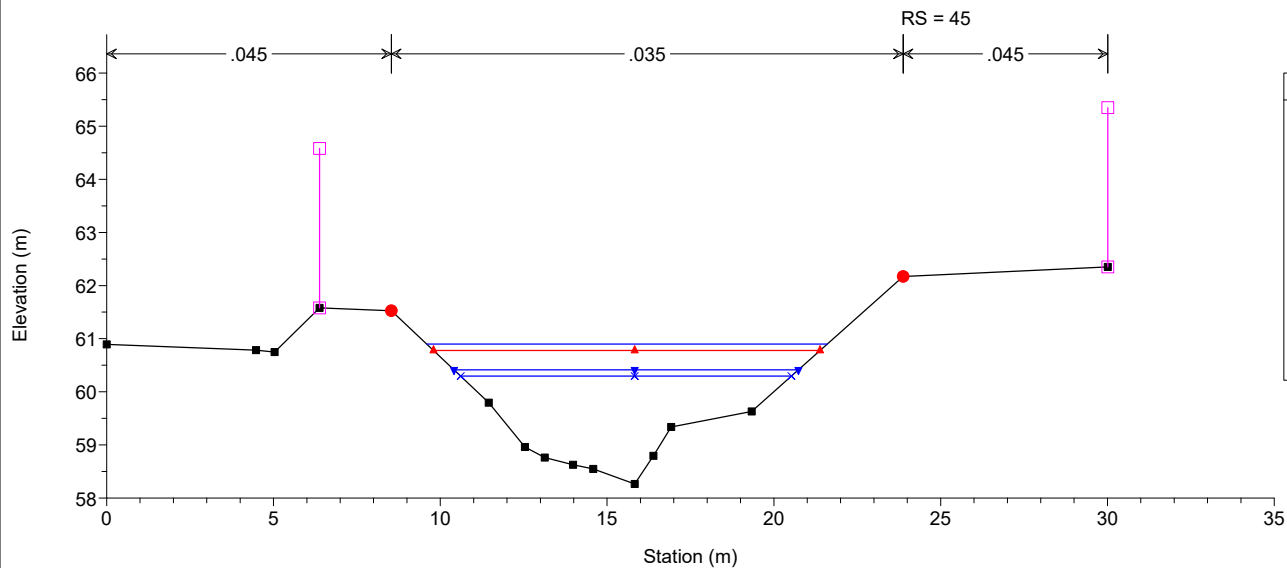
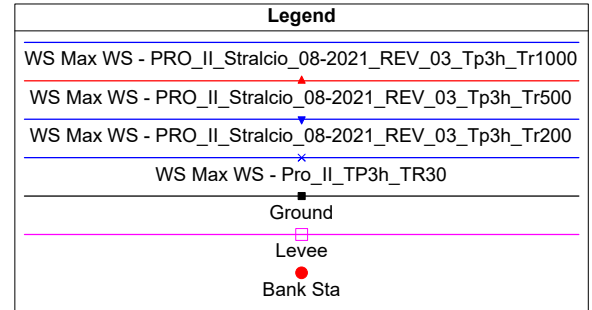
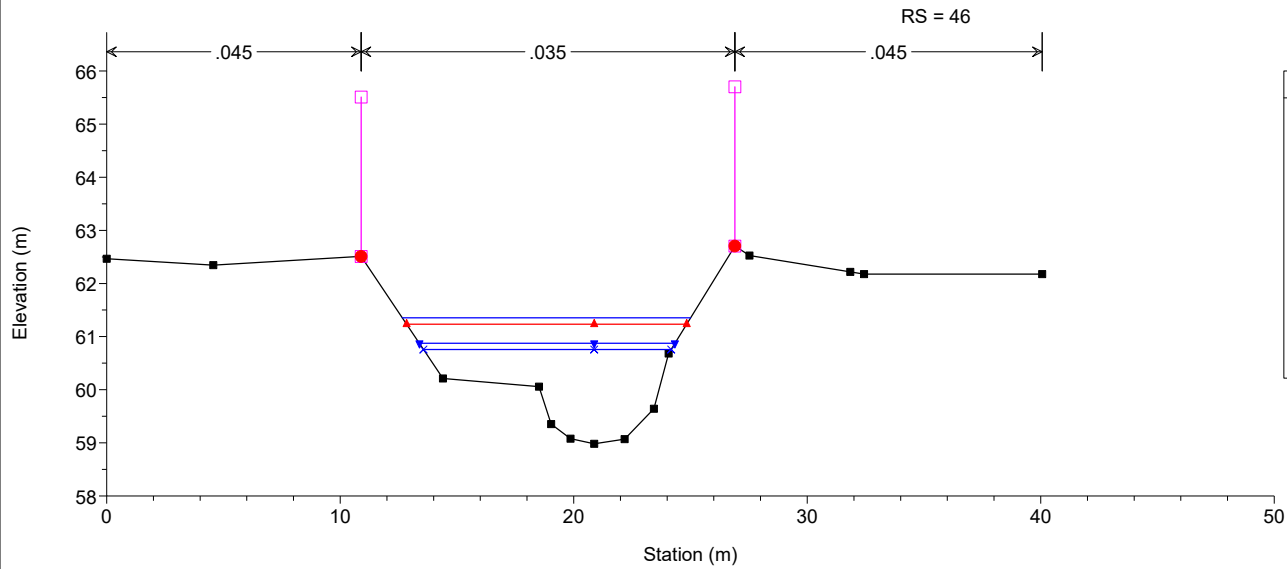


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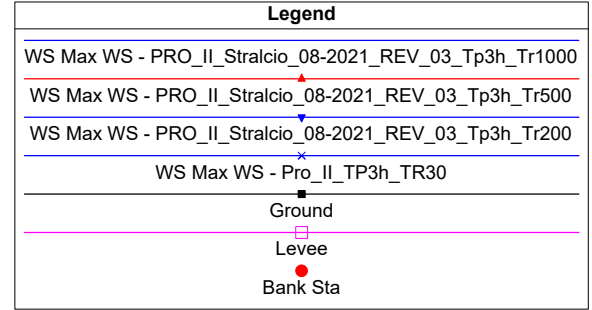
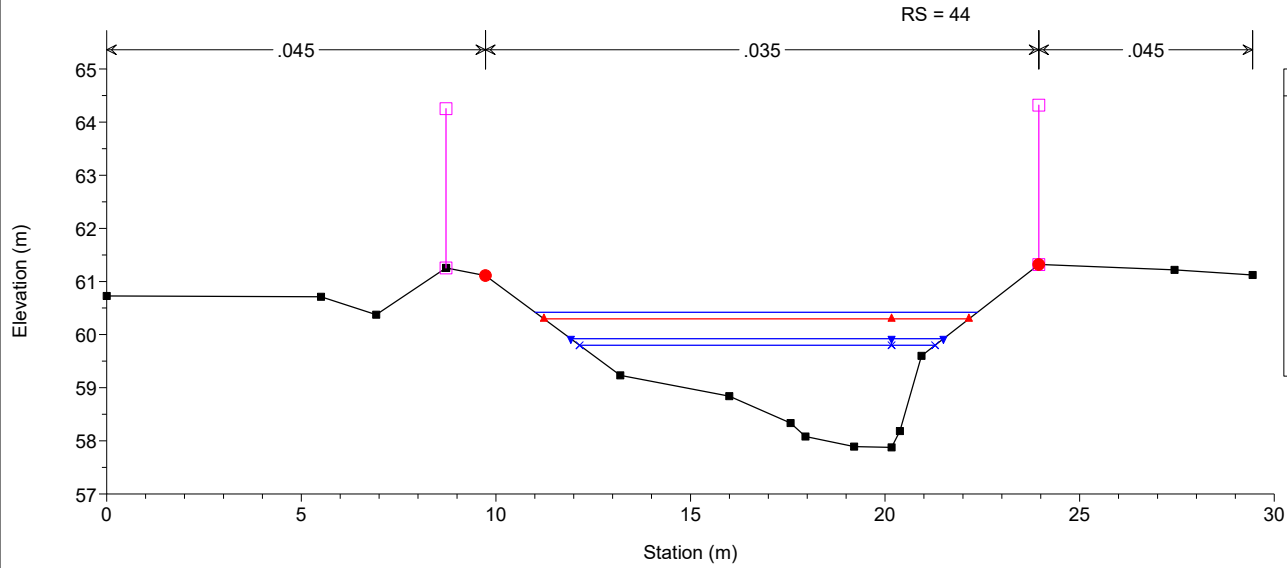


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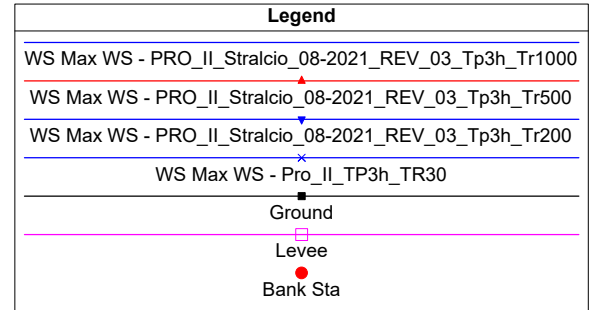
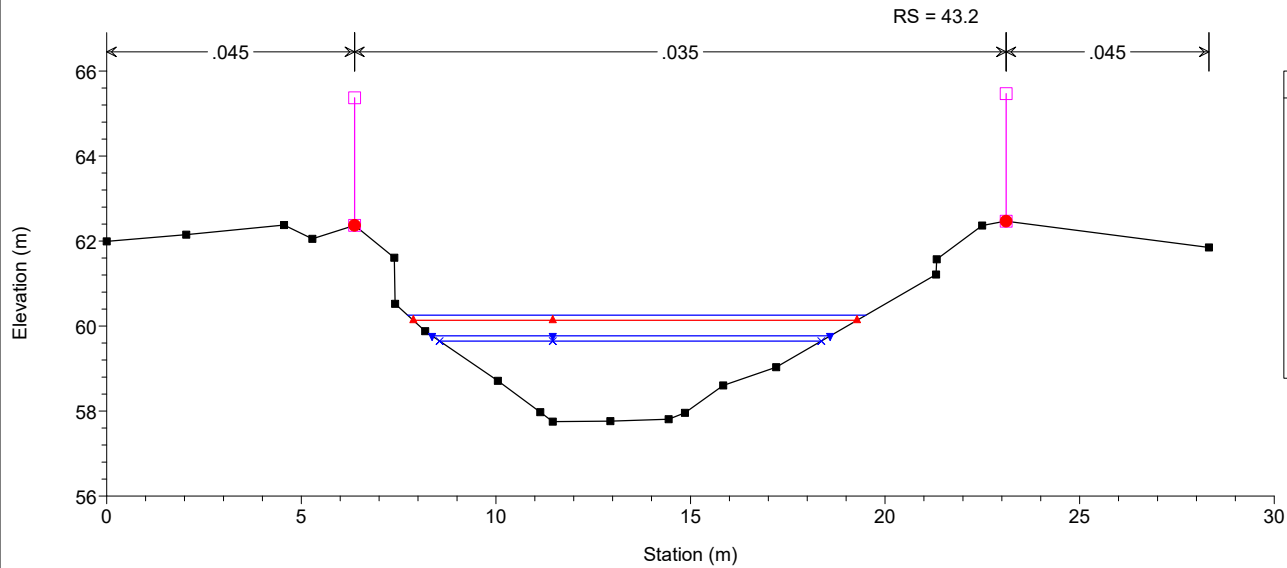


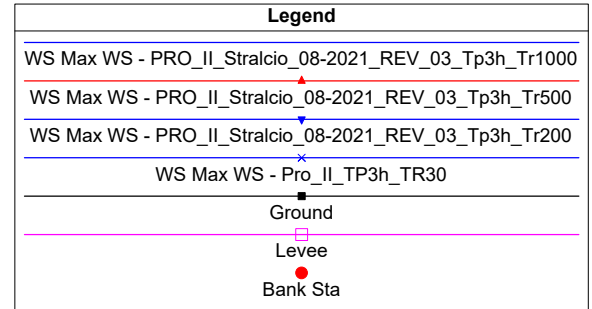
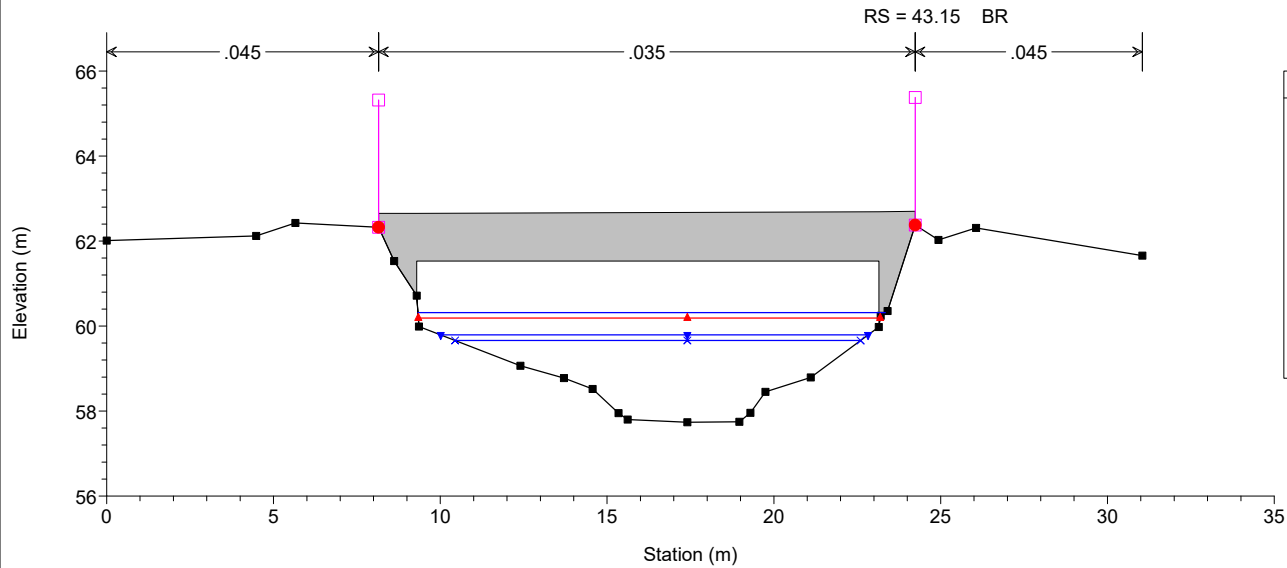
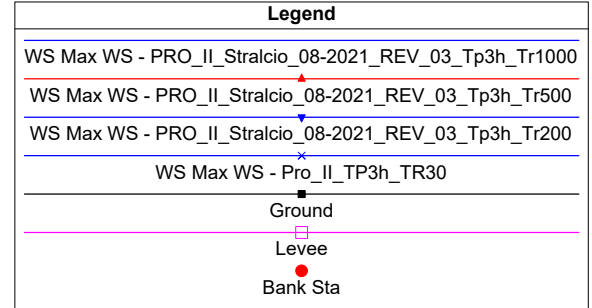
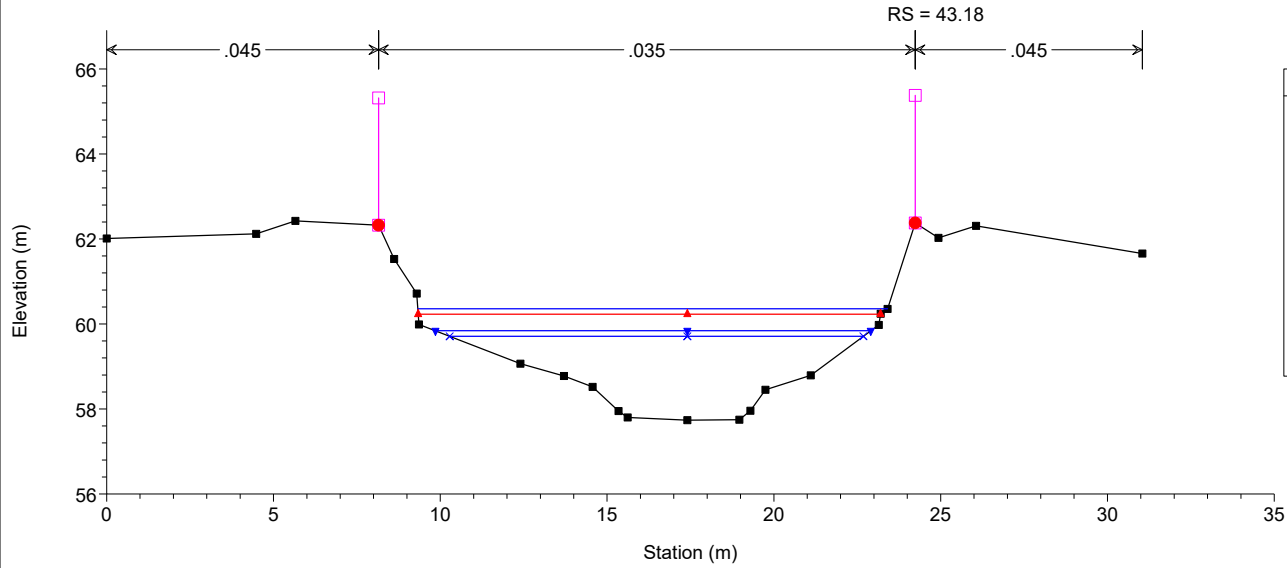


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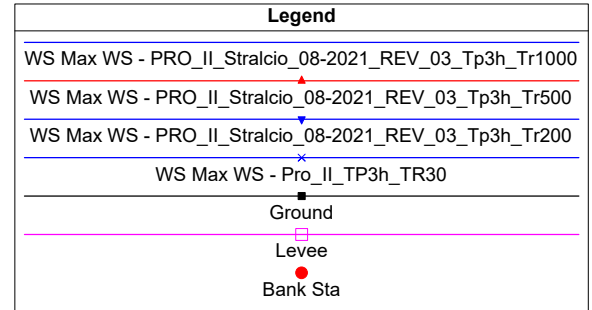
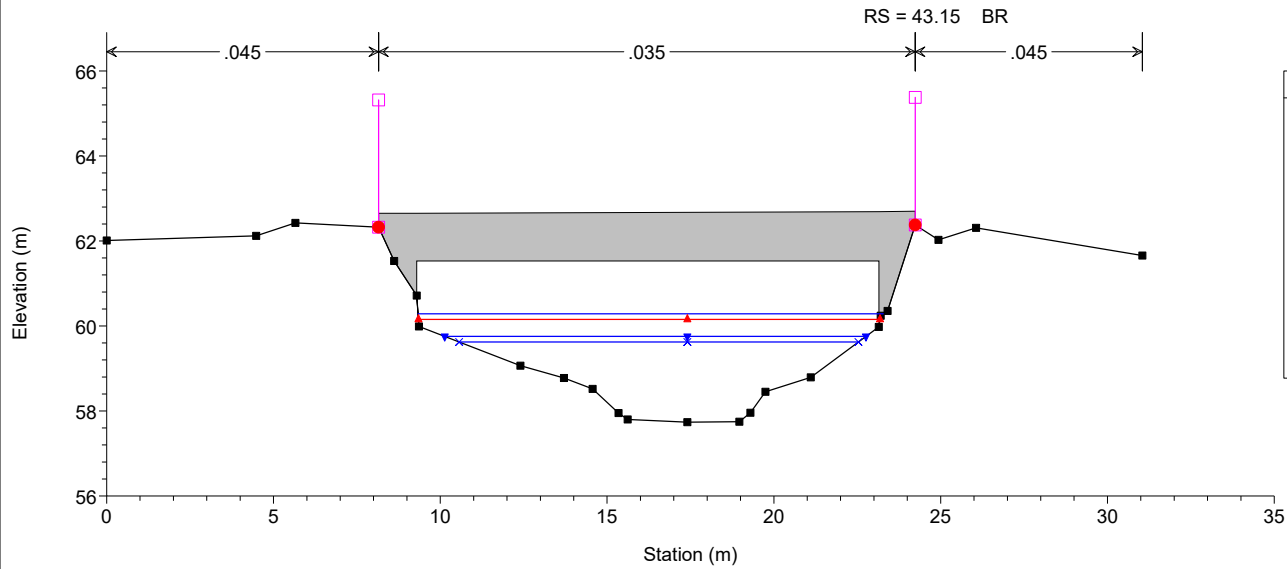


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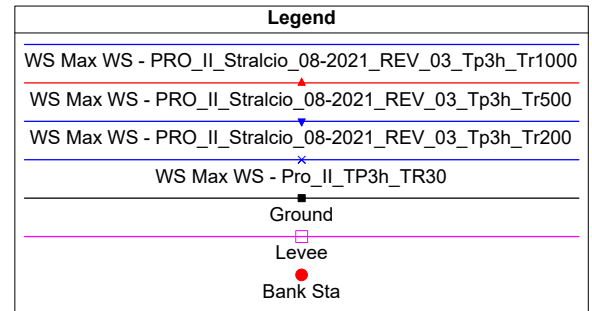
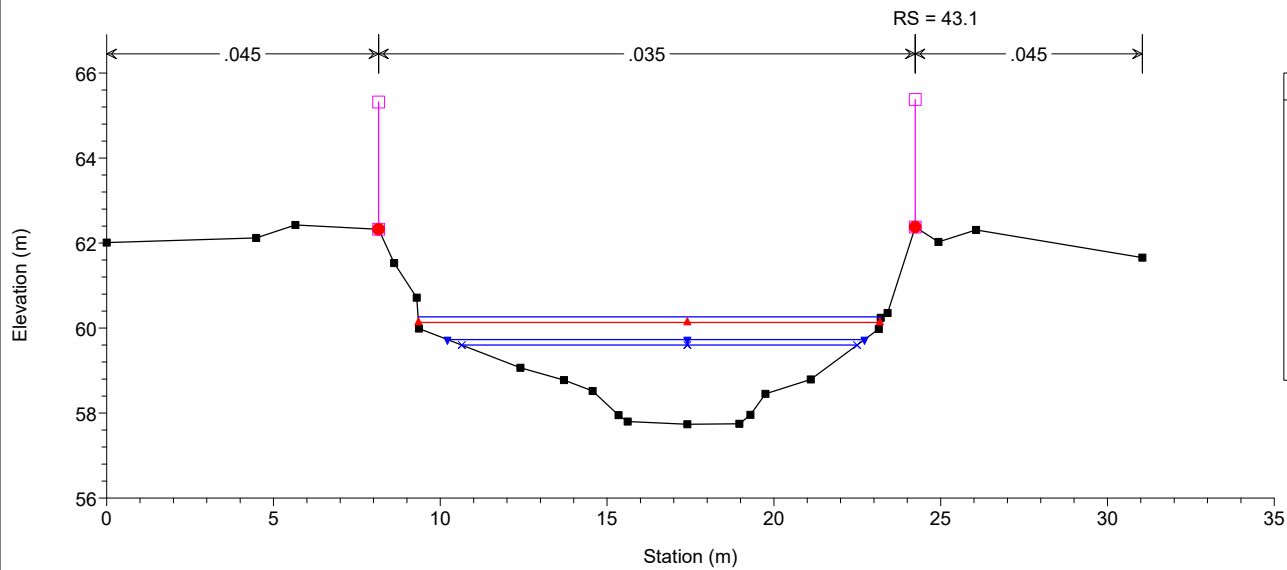




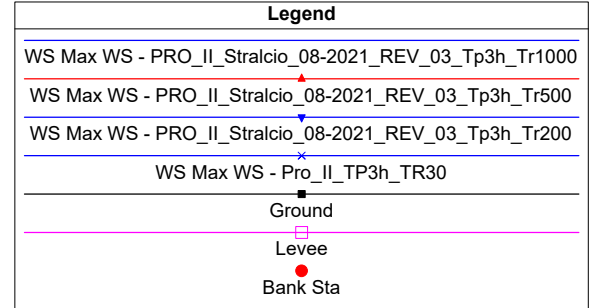
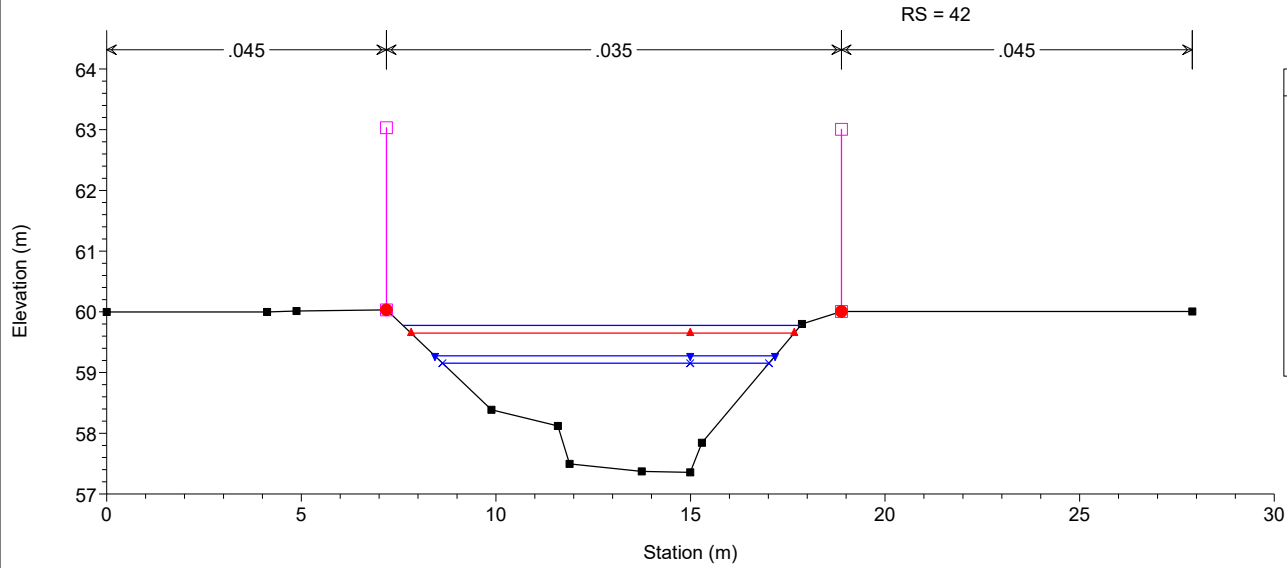
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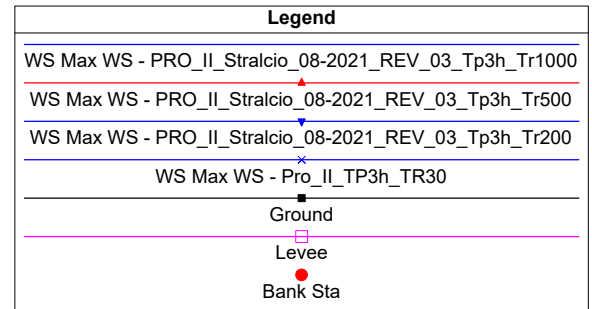
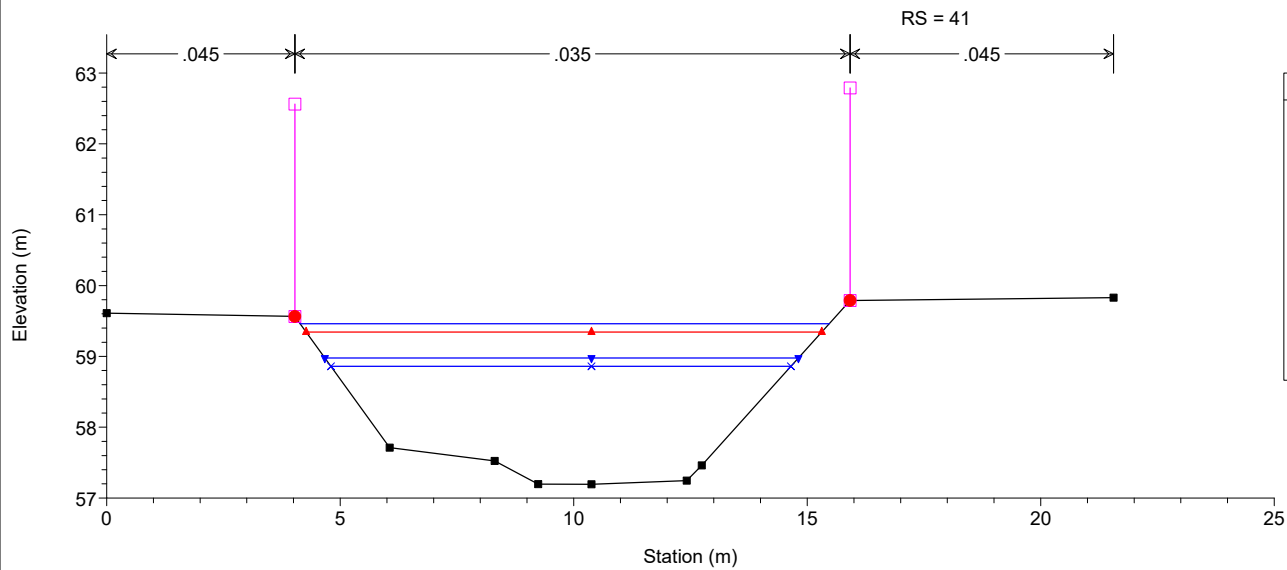
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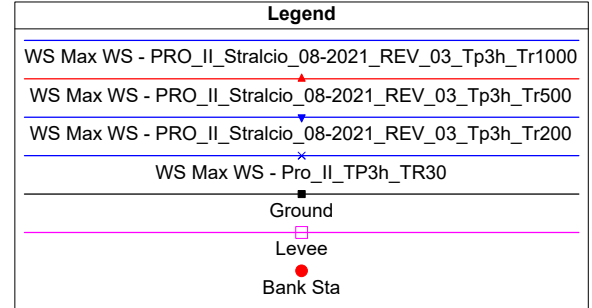
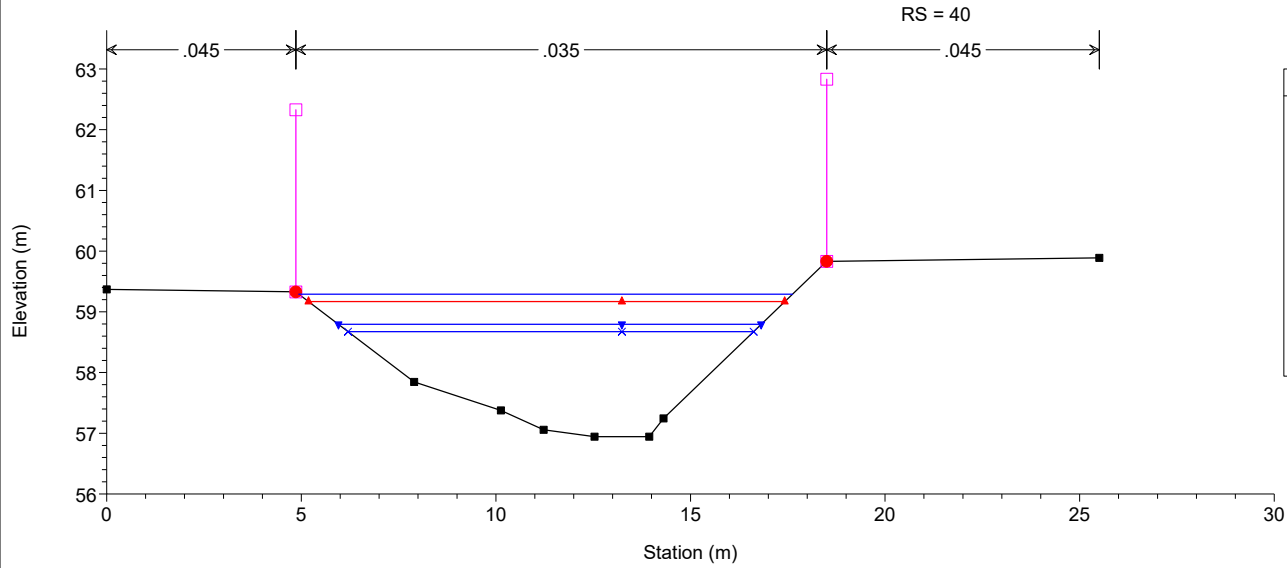


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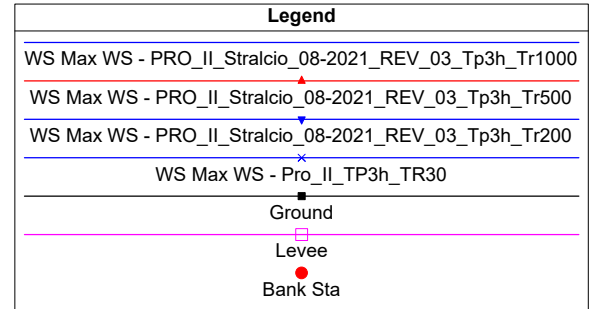
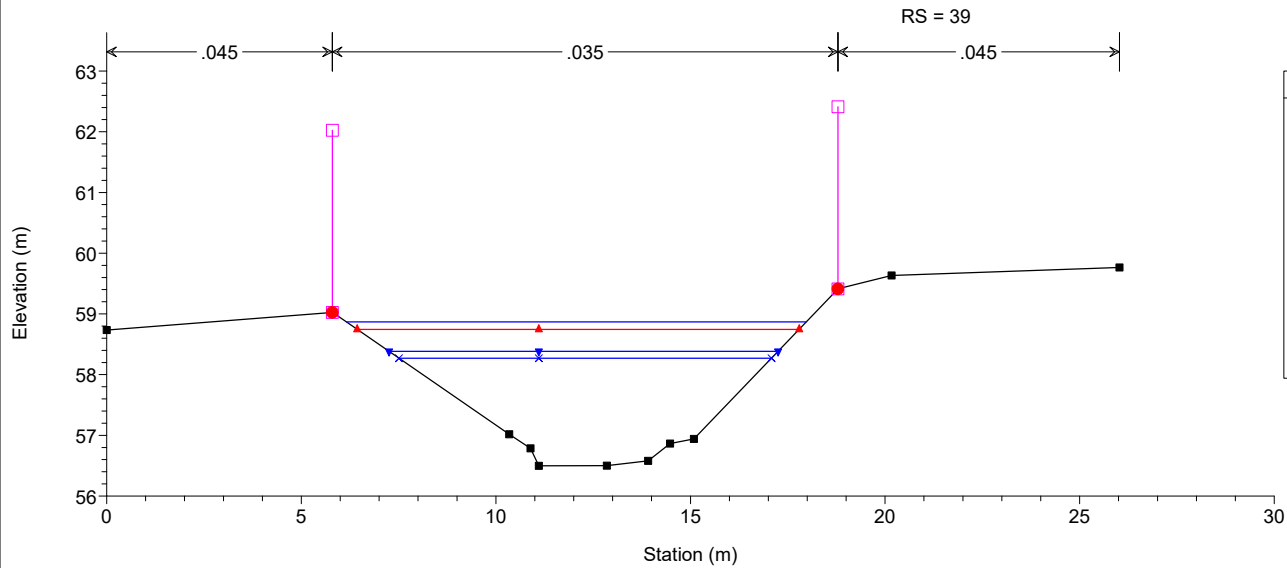




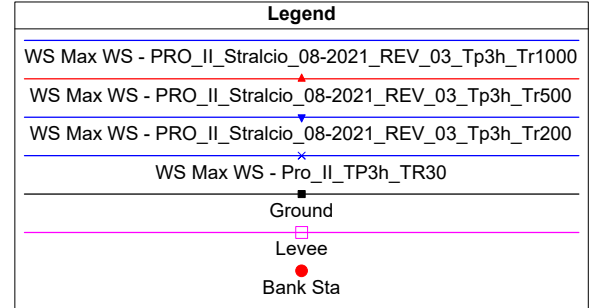
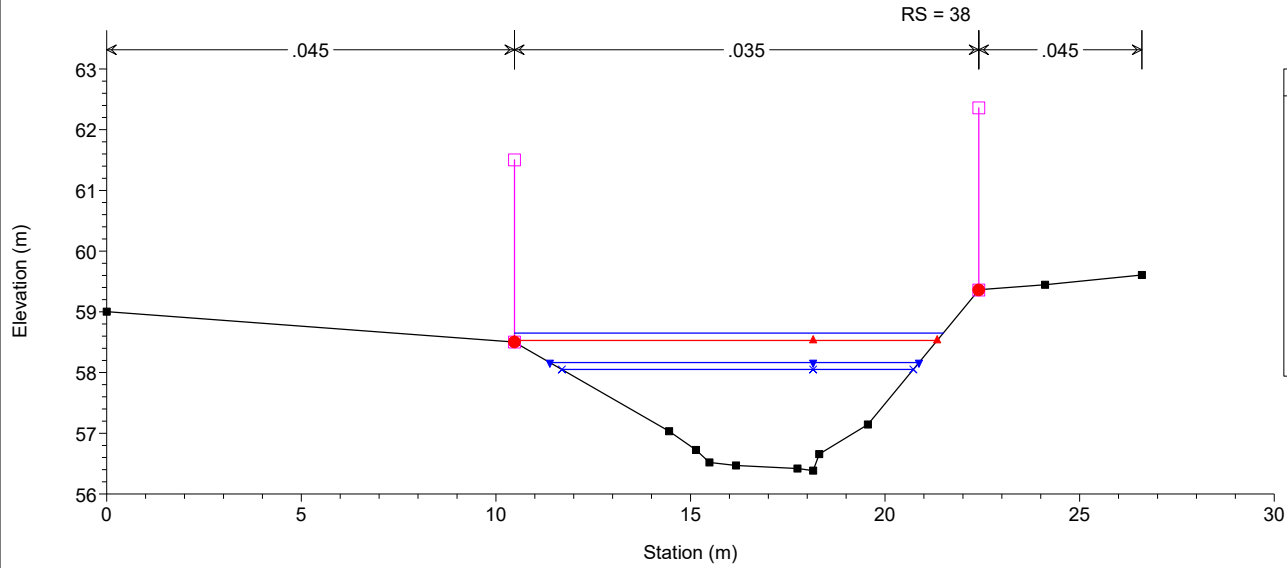
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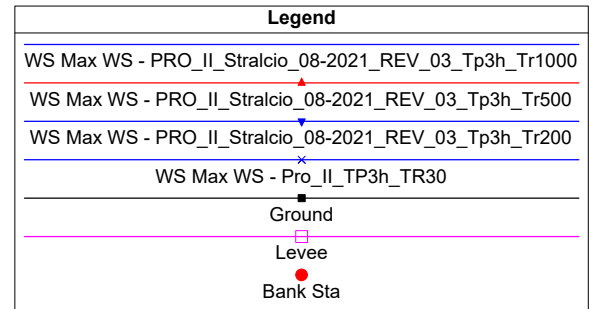
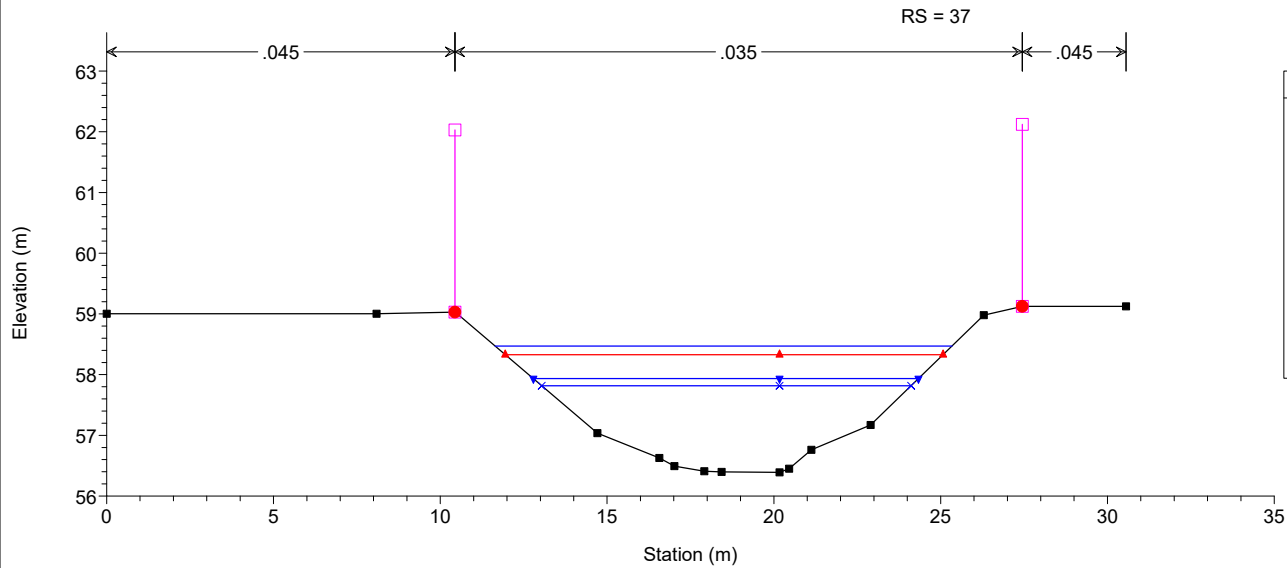
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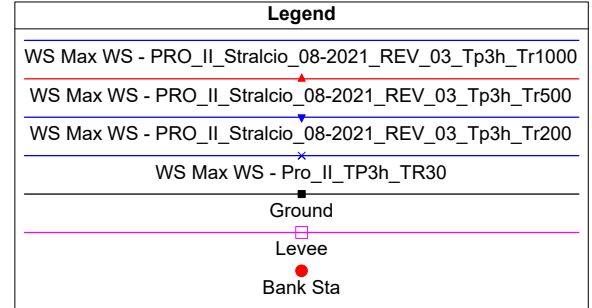
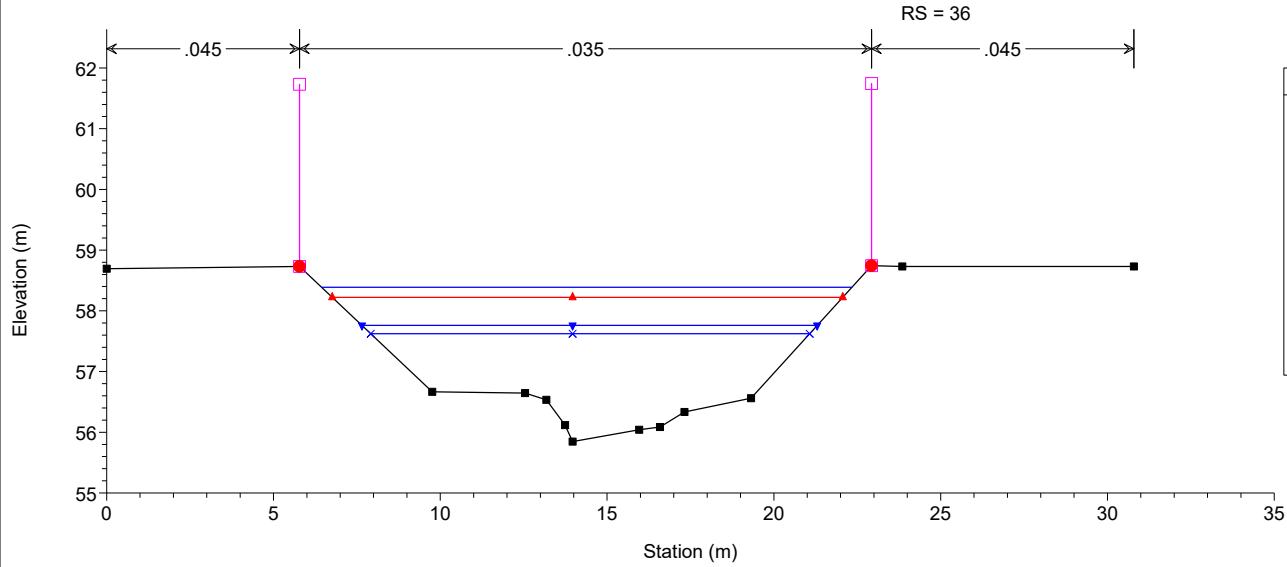
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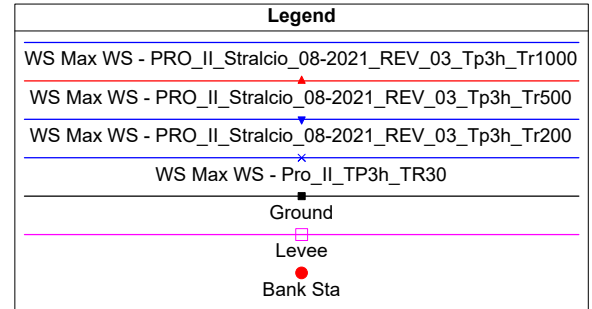
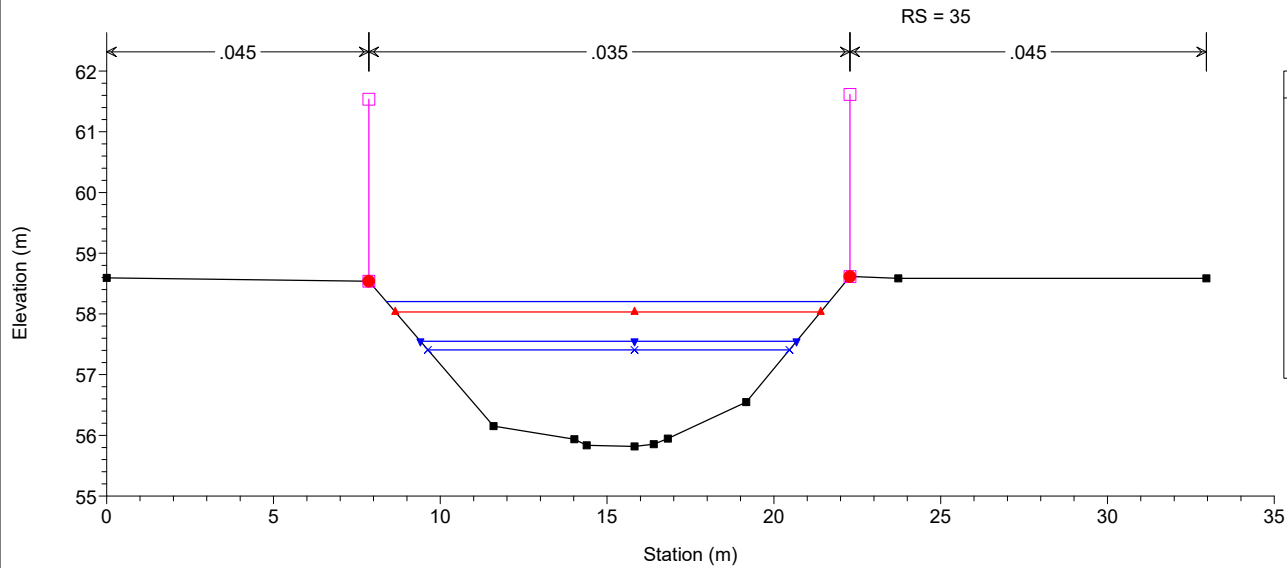
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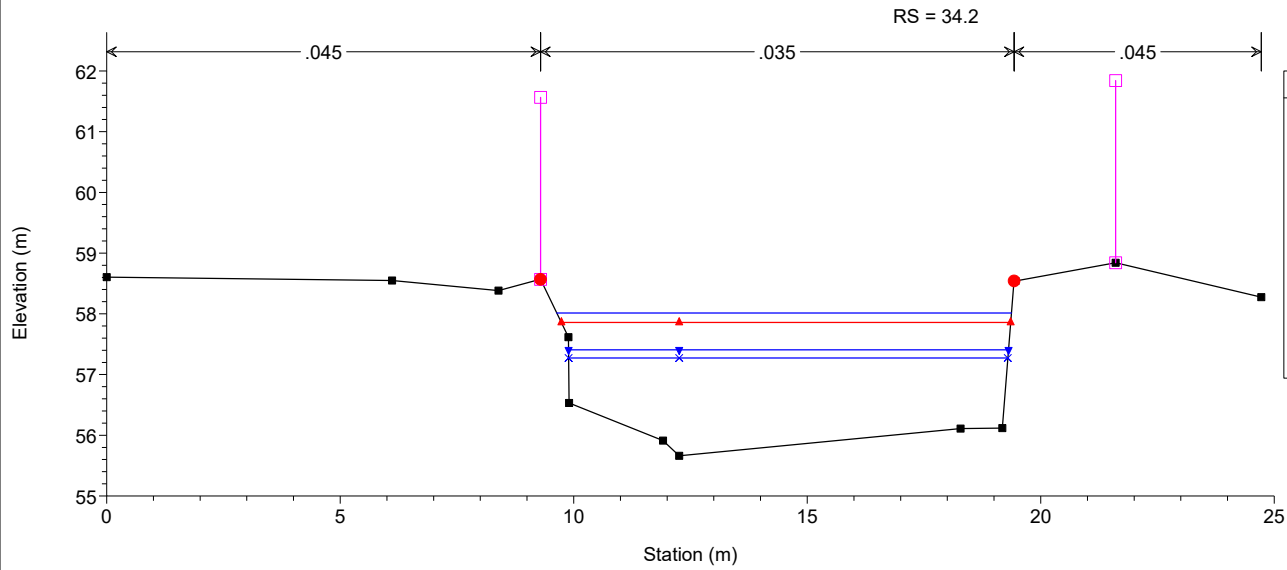
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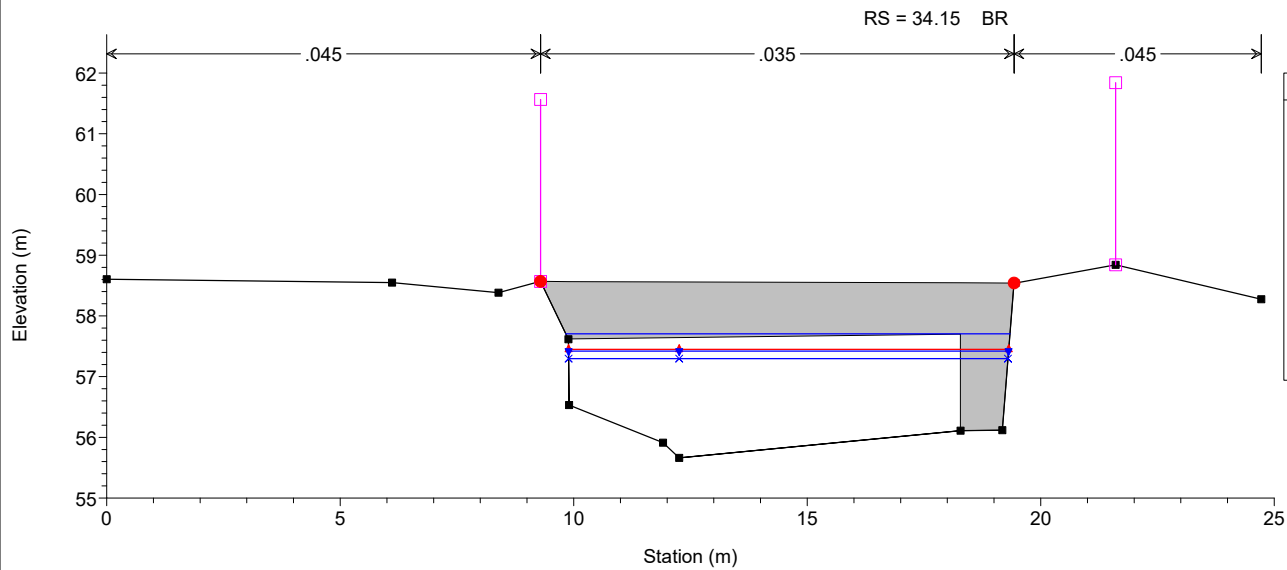
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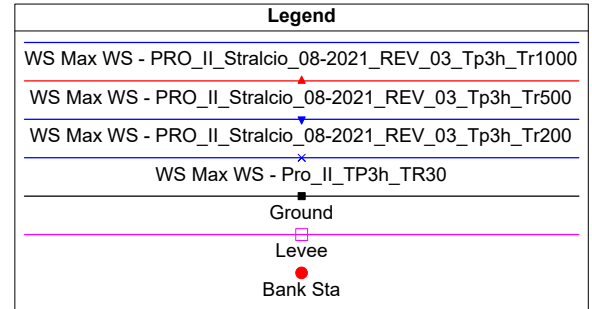
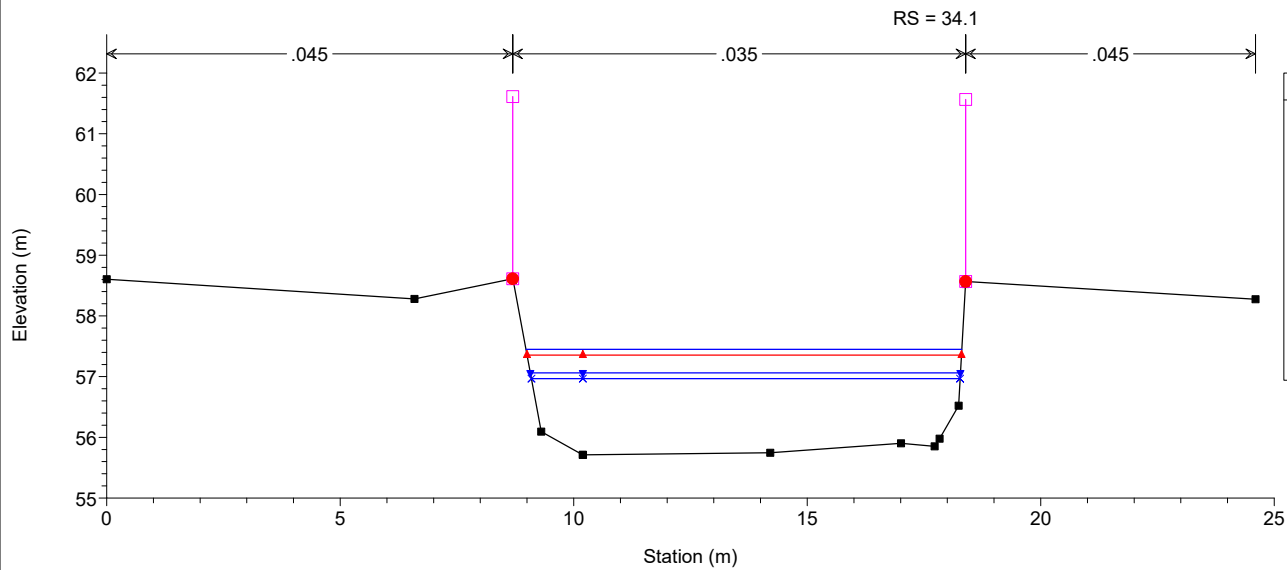
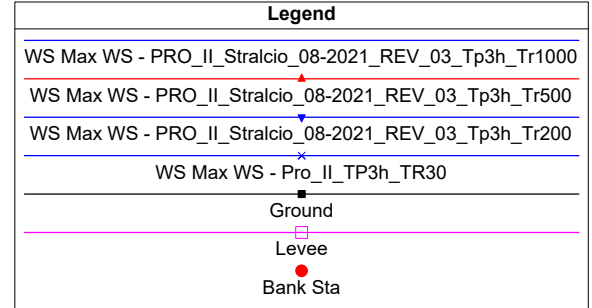
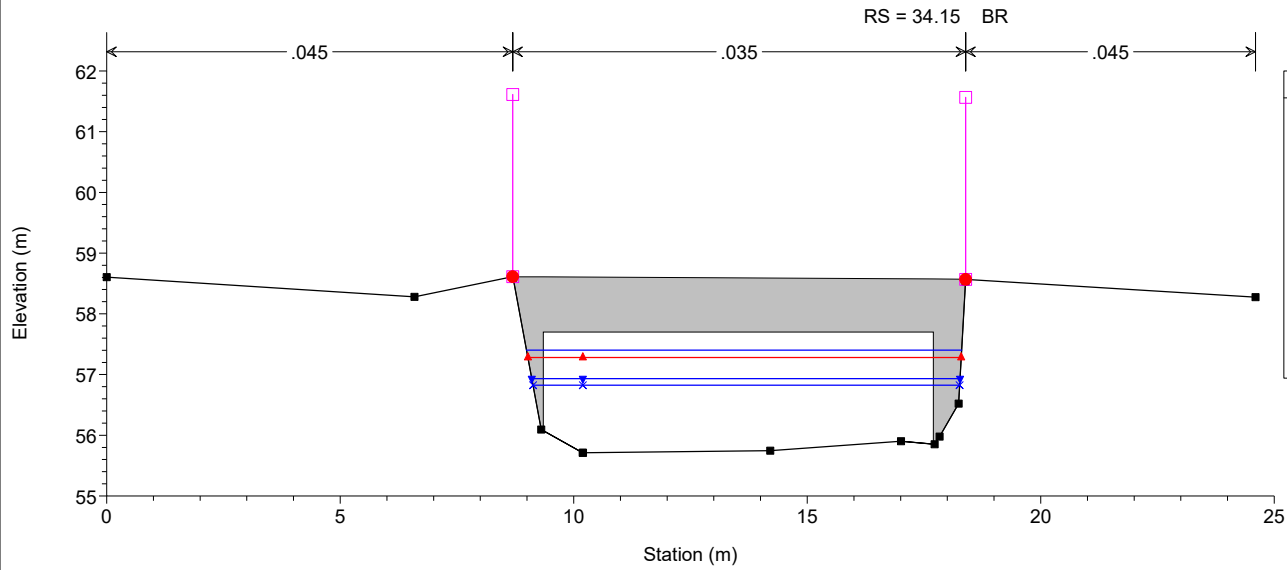


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

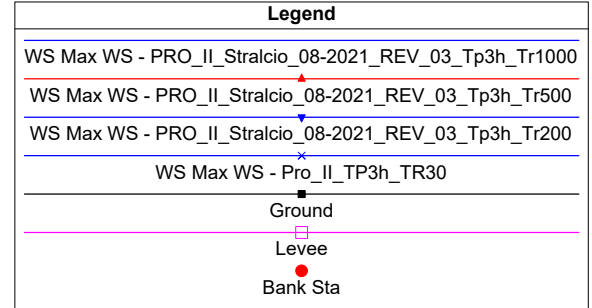
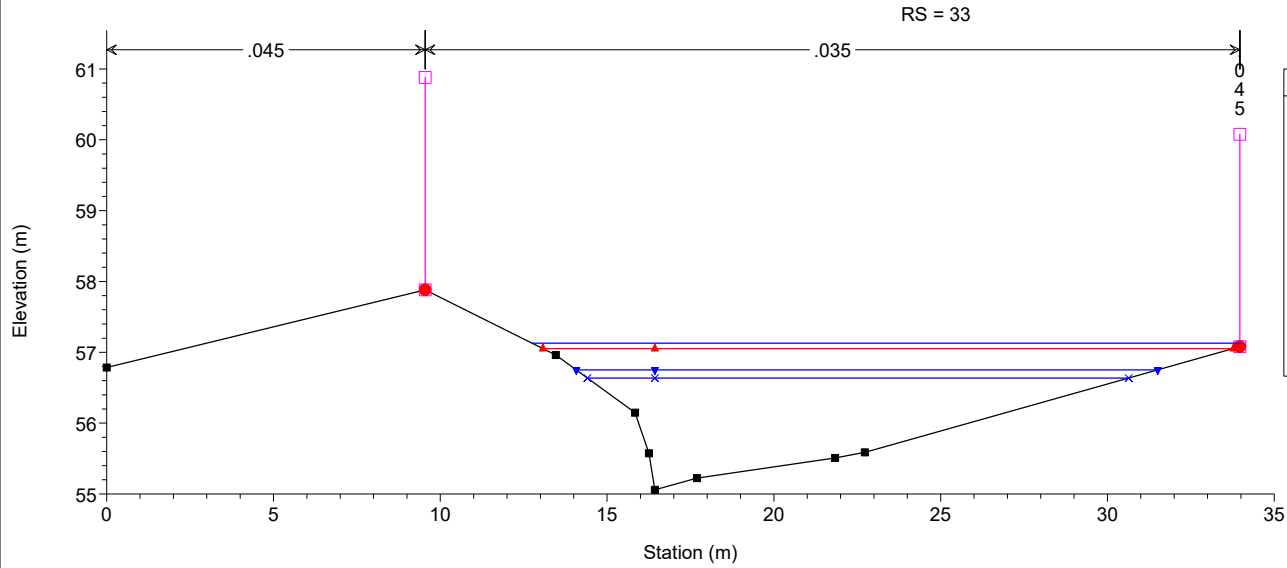


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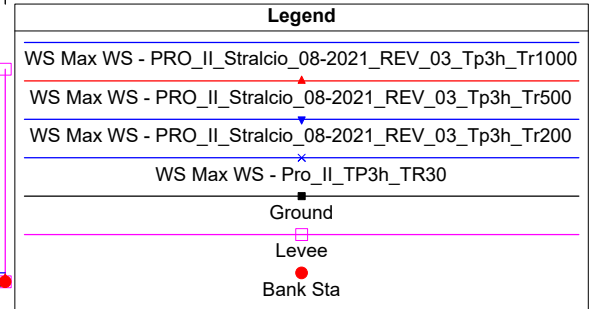
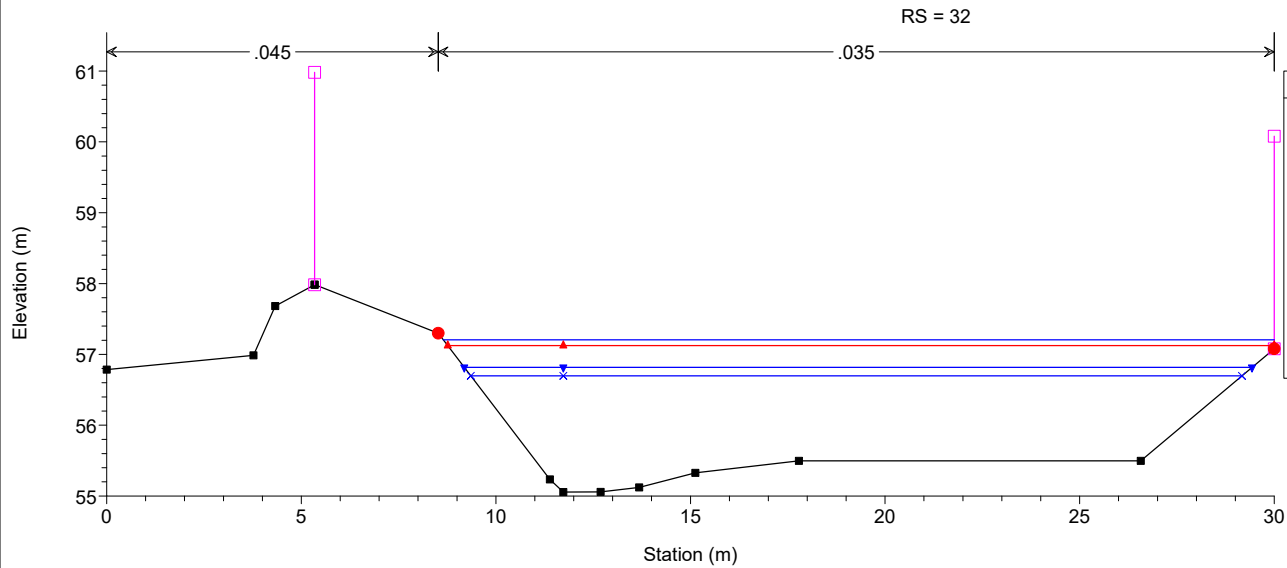




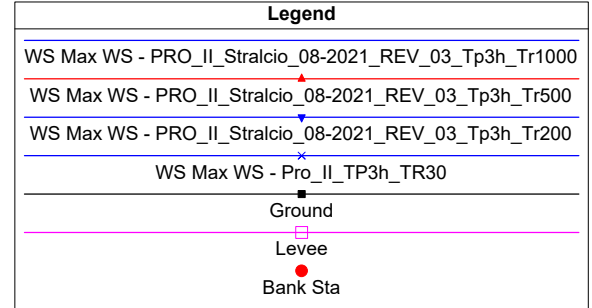
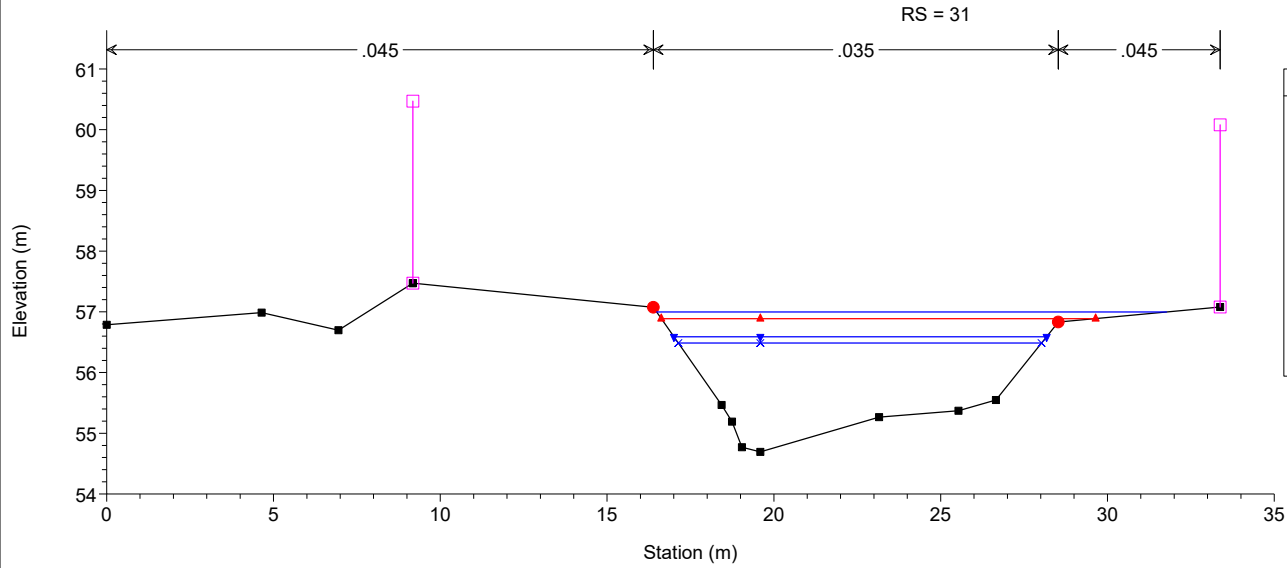
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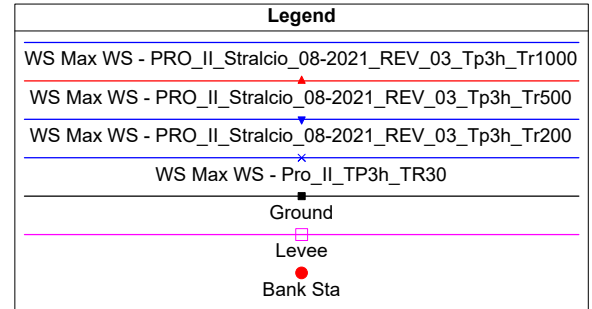
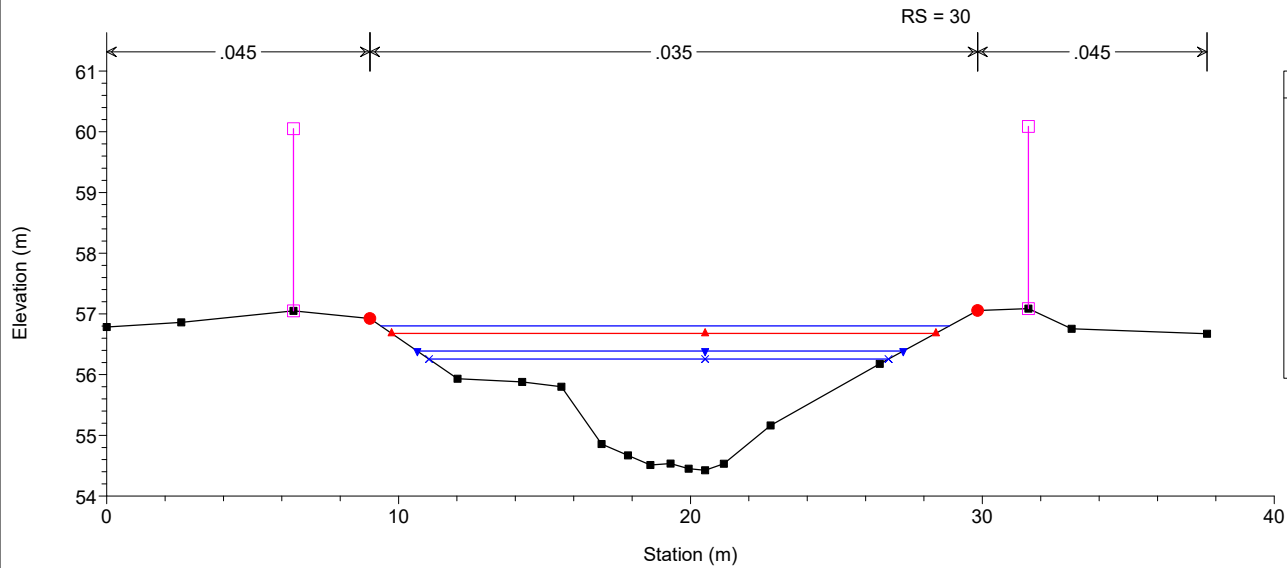
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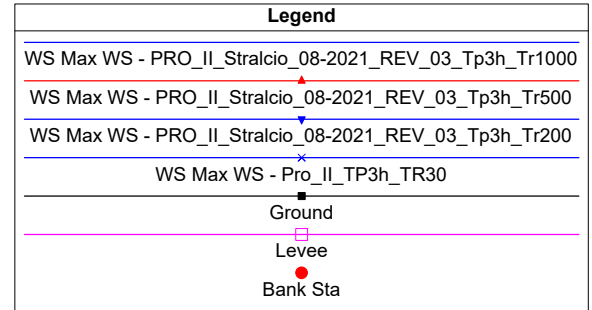
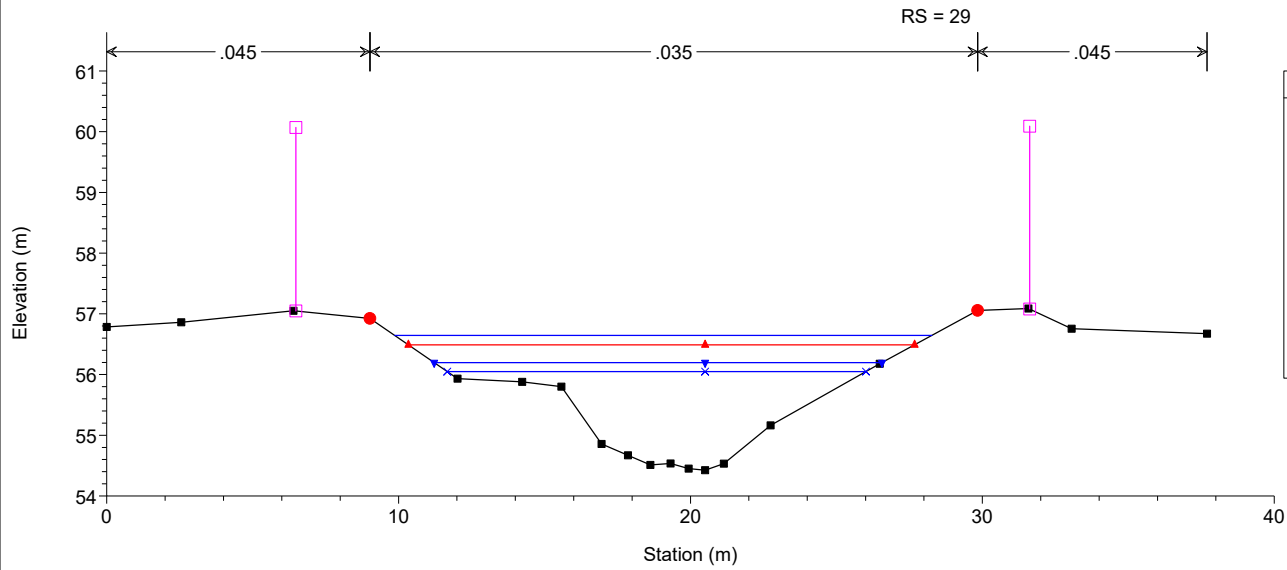
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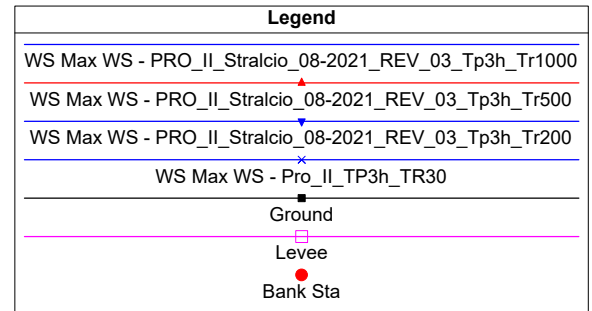
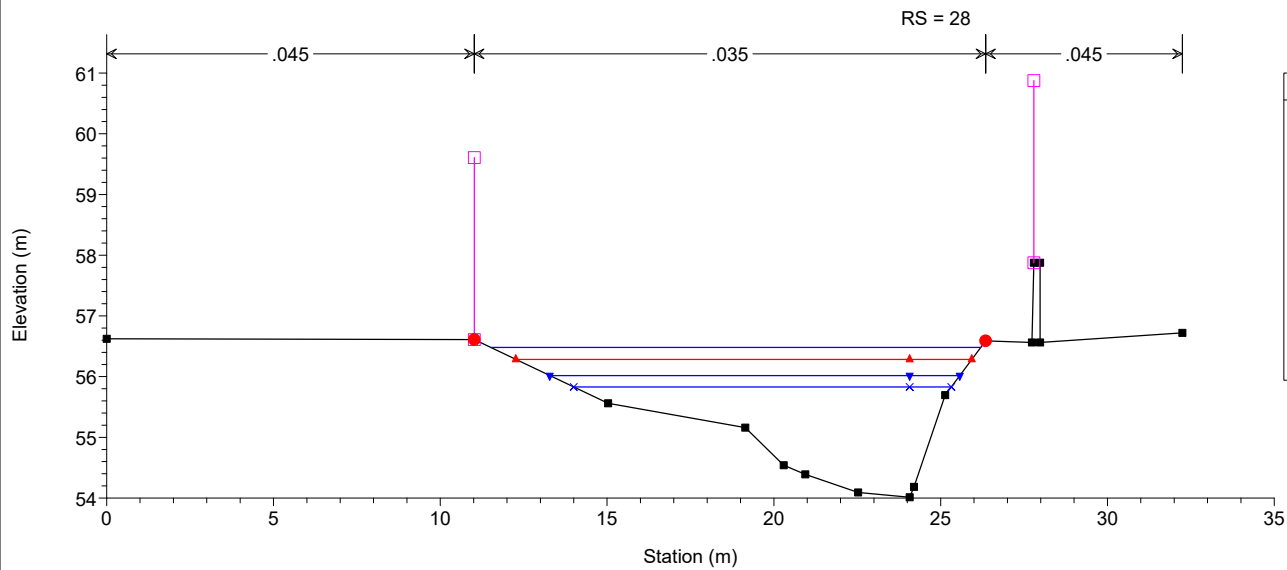
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RioPietrosio Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

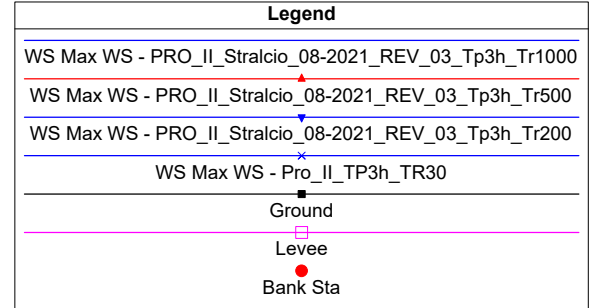
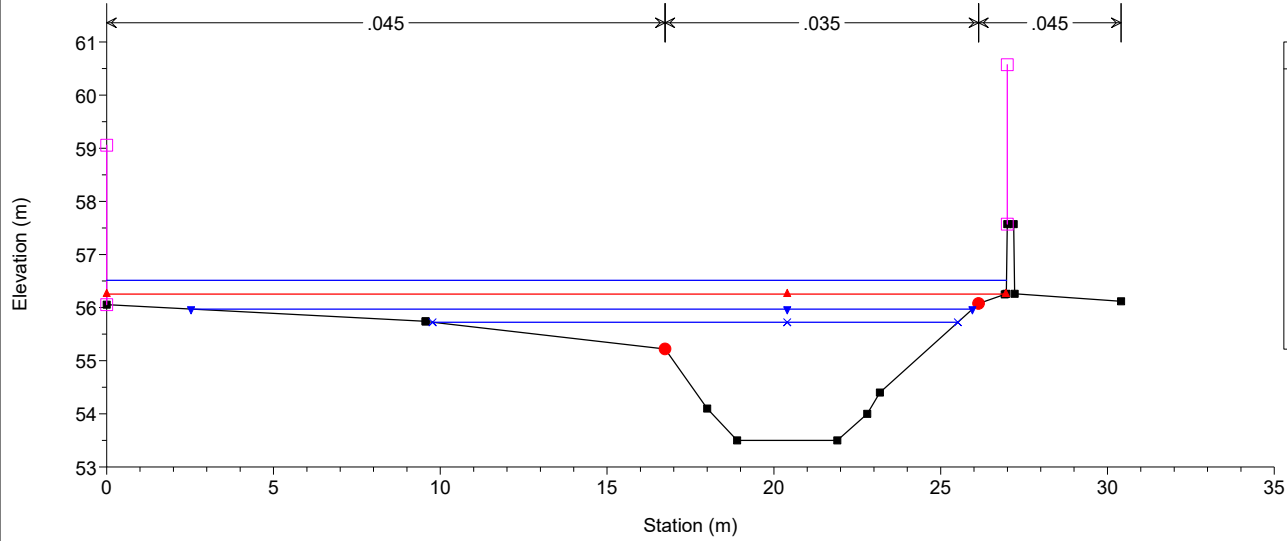


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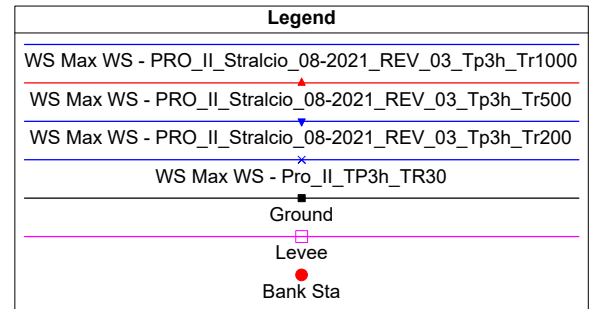
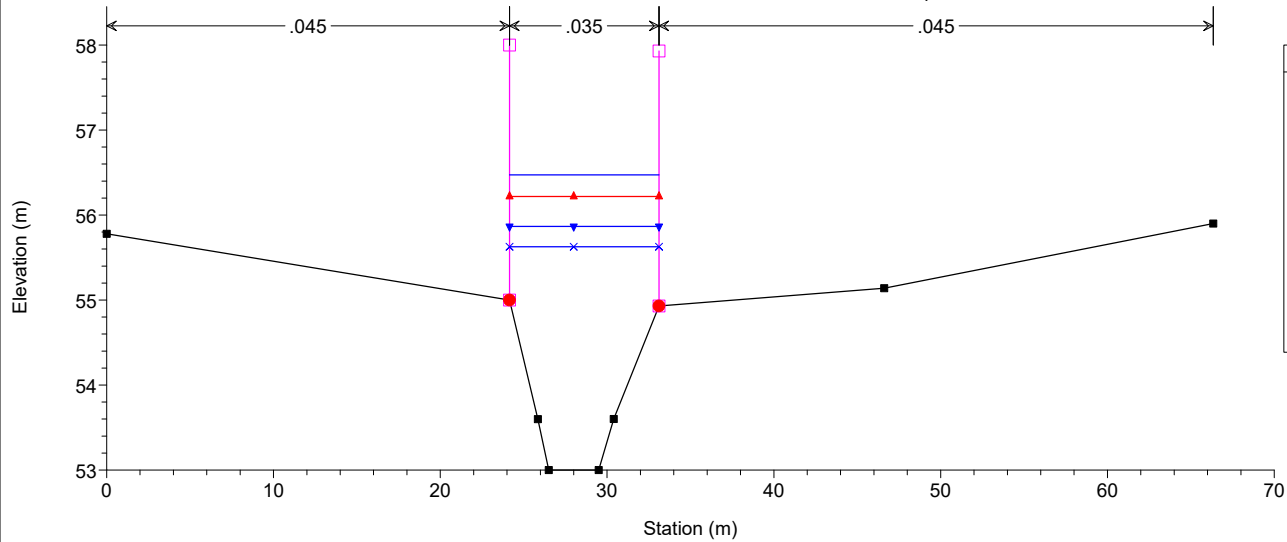




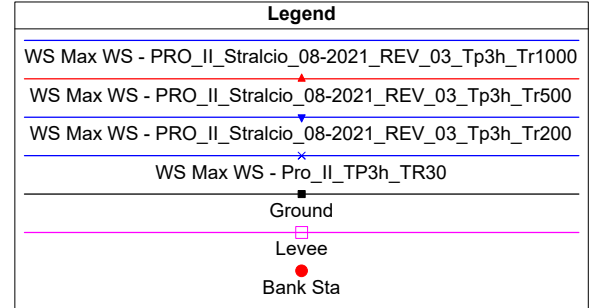
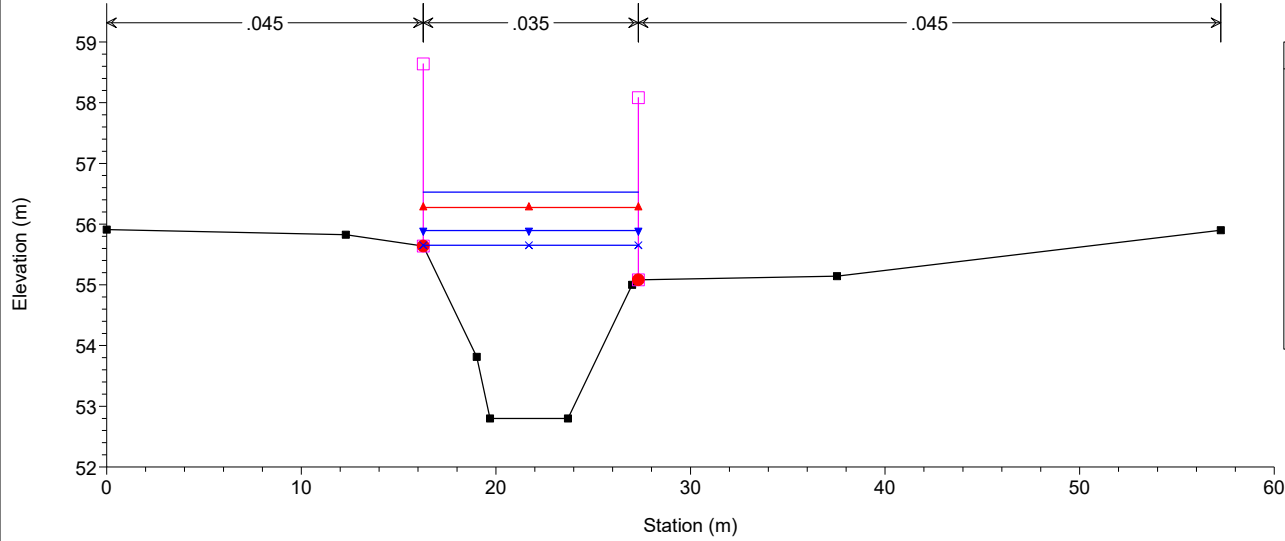
RS = 27 Riprofilatura PRO



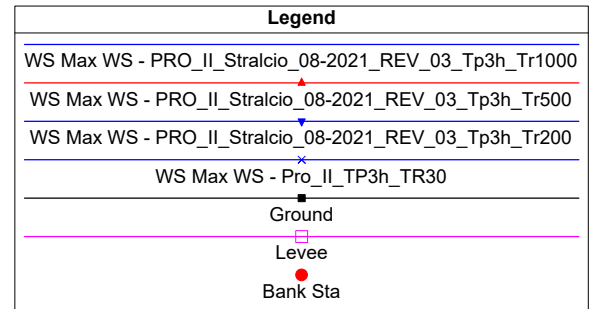
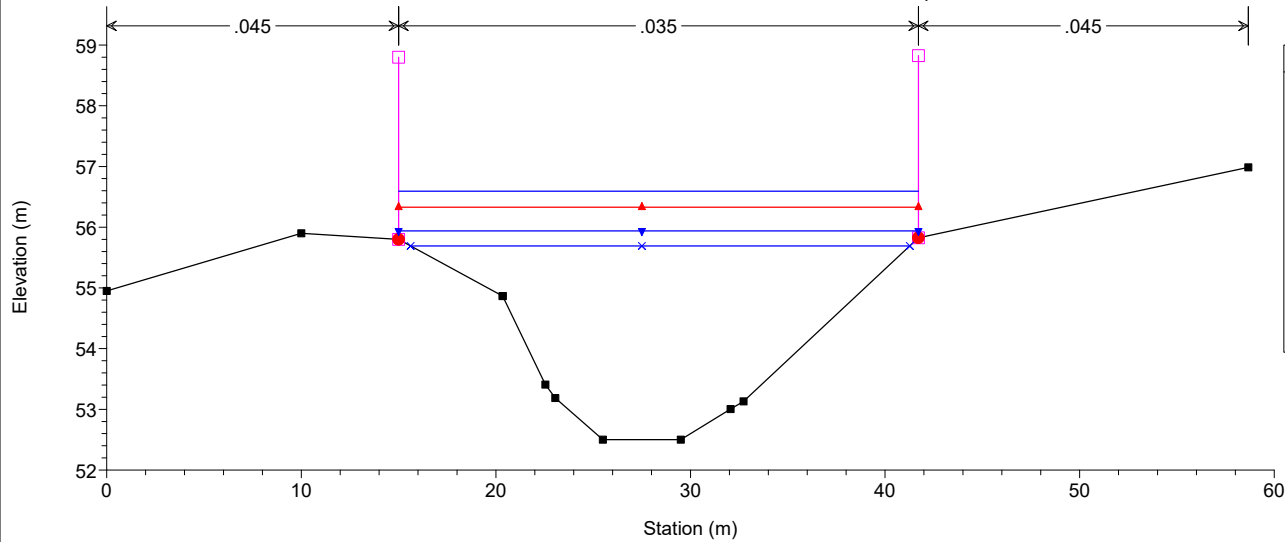
RS = 26 Riprofilatura PRO



RS = 25 Riprofilatura PRO

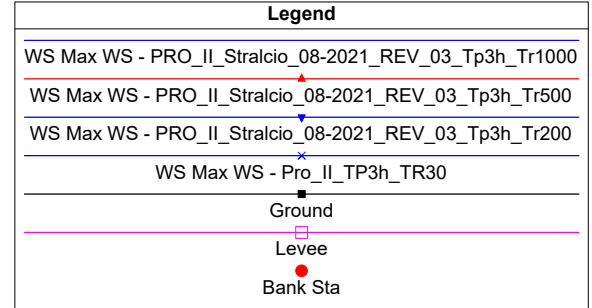
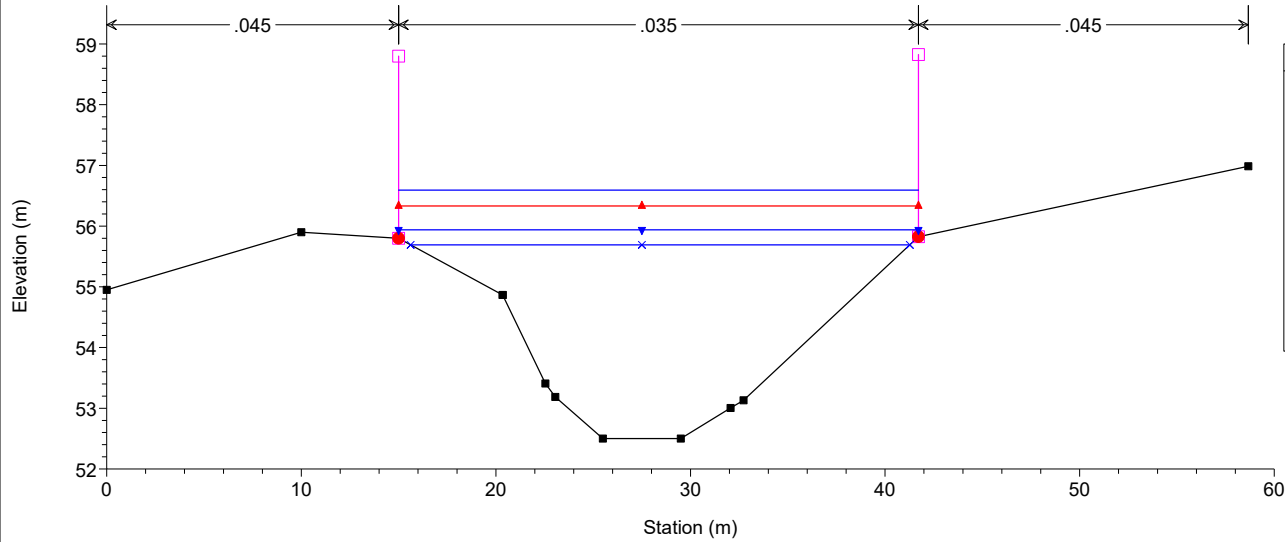


RS = 24 Riprofilatura PRO



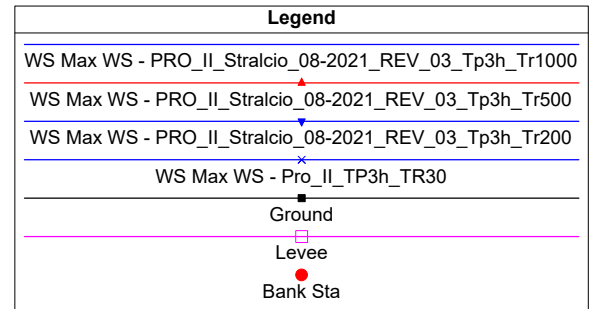
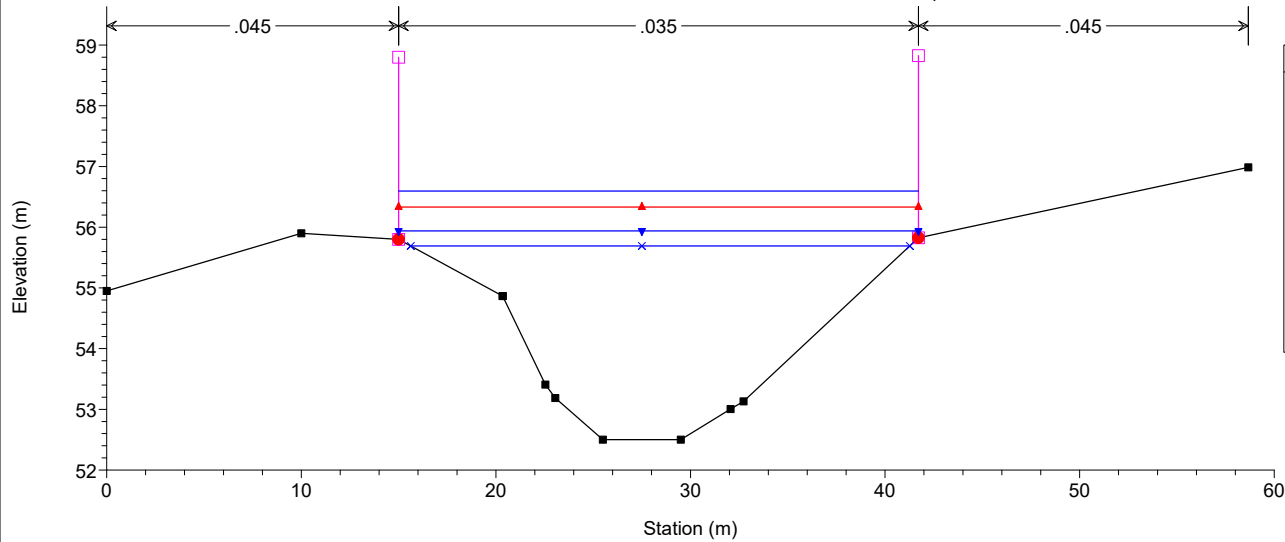
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 23.5 Riprofilatura PRO



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

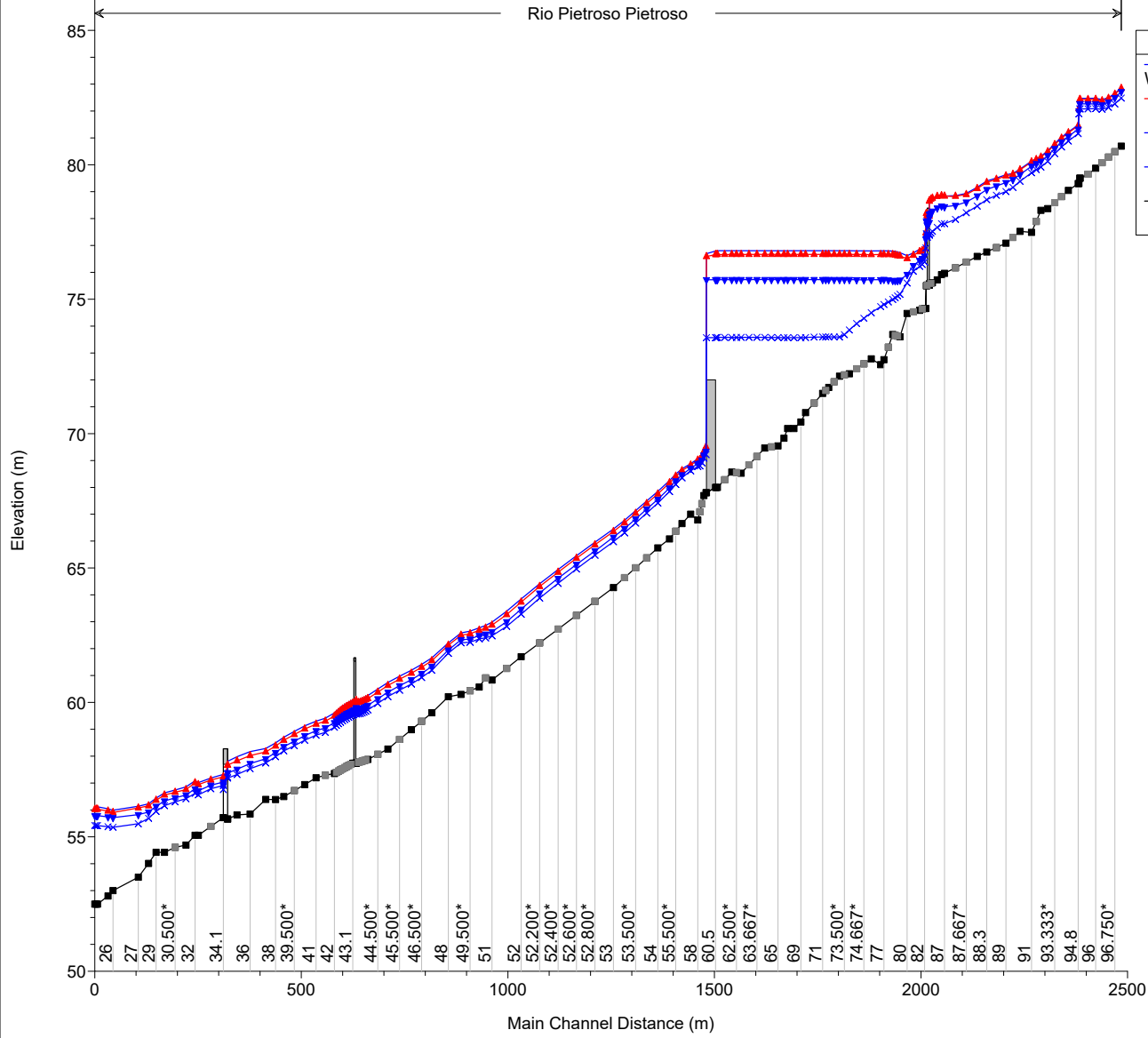
RS = 23.2 Riprofilatura PRO



**Rio Pietroso – Tratto di monte (sez. 97 – sez. 23.2)**

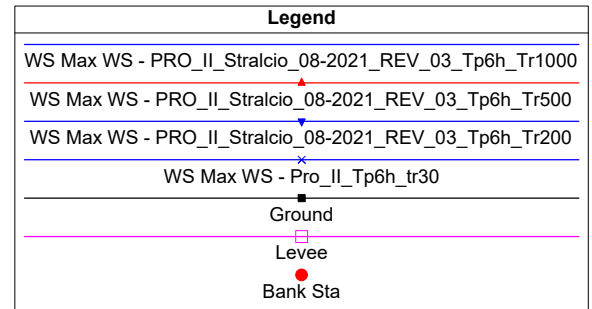
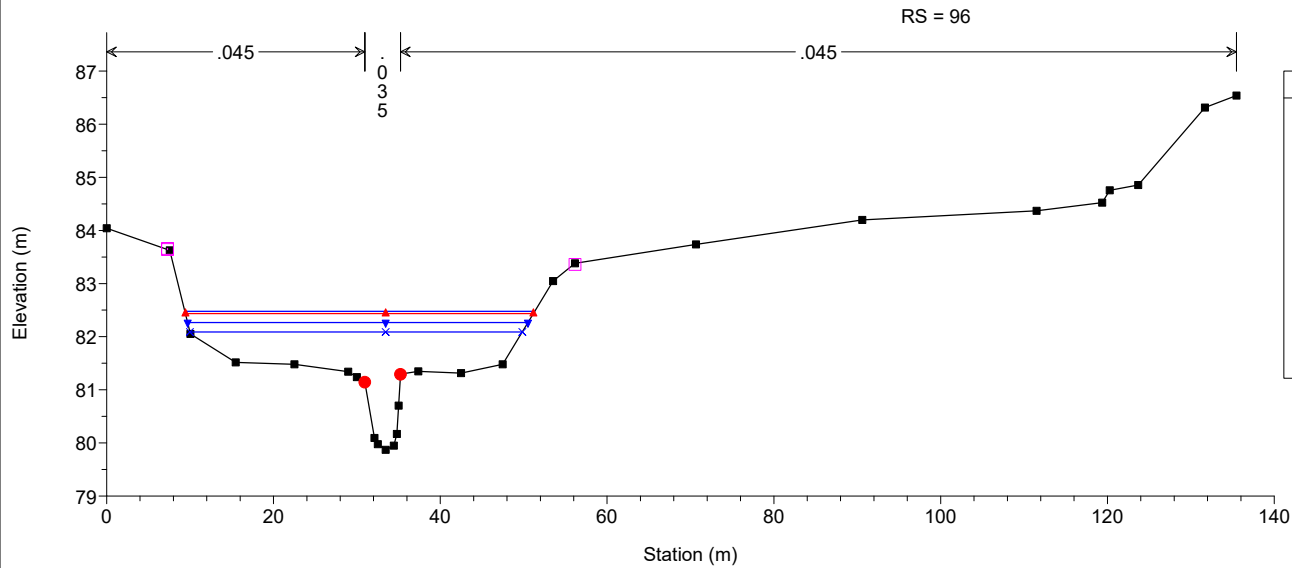
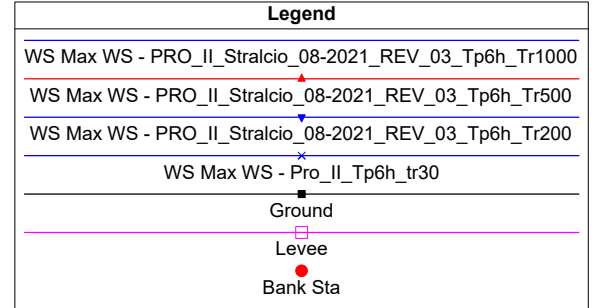
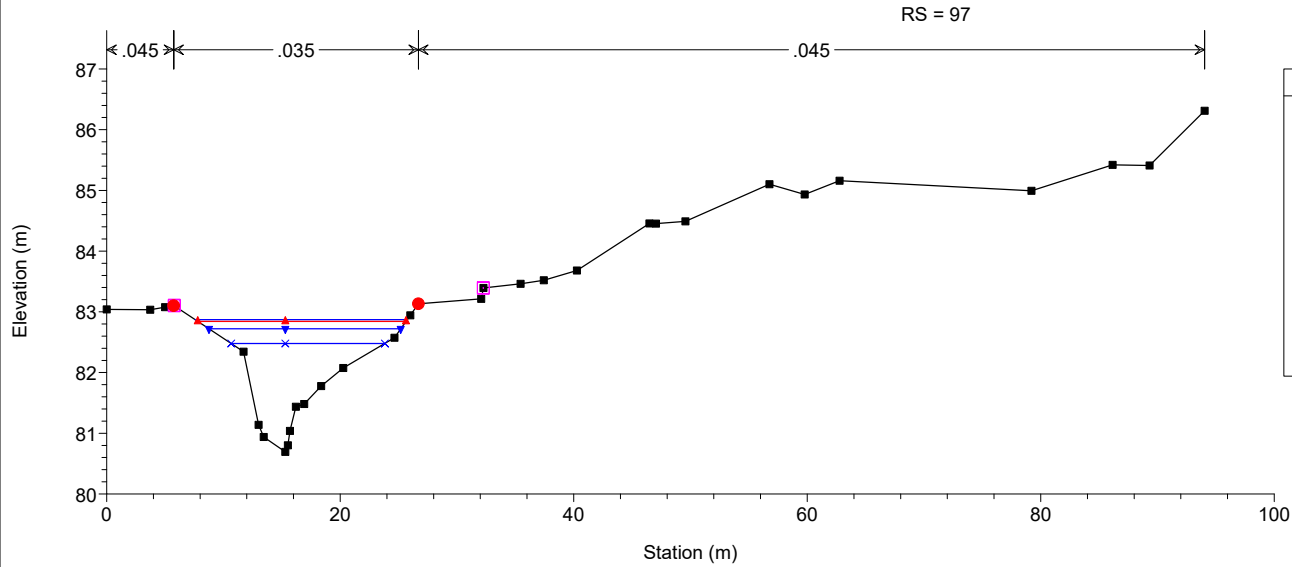
**Verifiche idrauliche moto vario stato di progetto**

**Tr=1000, 500, 200 e Tr=30 anni – Tp 6 ore**

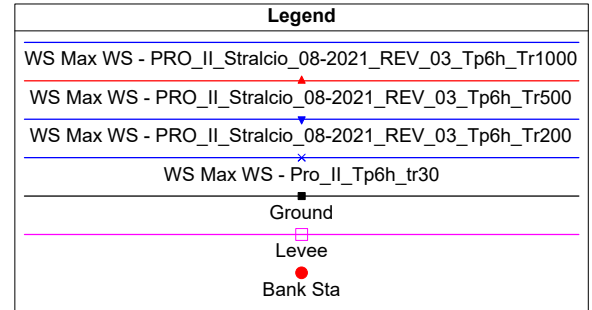
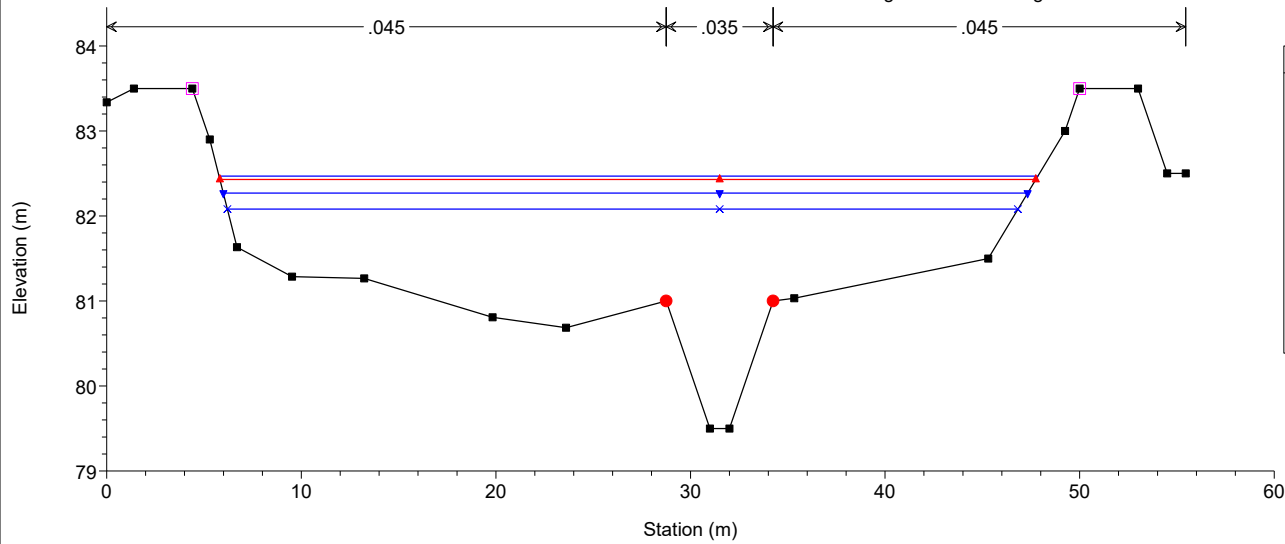


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	×
WS Max WS - Pro_II_Tp6h_tr30	■
Ground	■

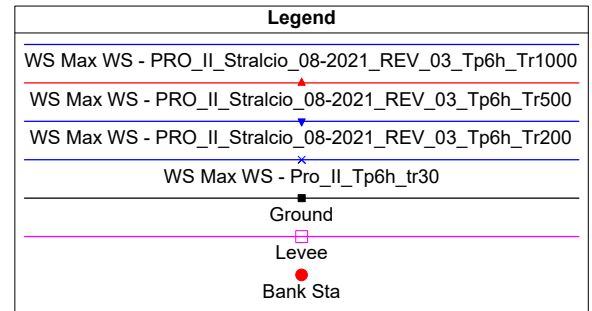
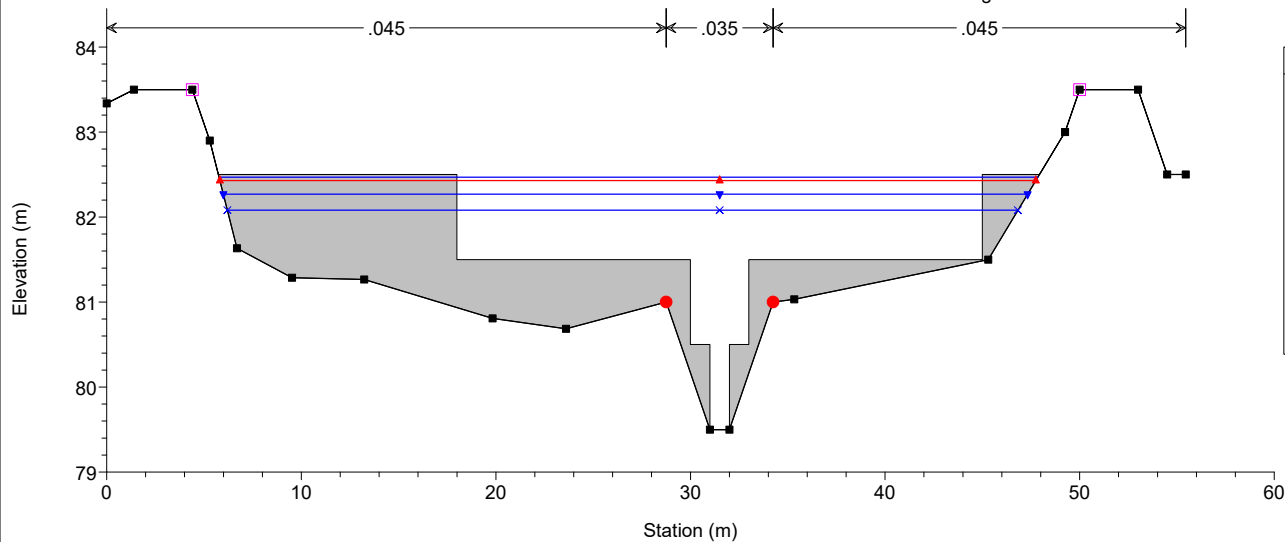
- 26
- 27
- 29
- 30.500\*
- 32
- 34.1
- 36
- 38
- 39.500\*
- 41
- 42
- 43.1
- 44.500\*
- 45.500\*
- 46.500\*
- 48
- 49.500\*
- 51
- 52
- 52.200\*
- 52.400\*
- 52.600\*
- 52.800\*
- 53
- 53.500\*
- 54
- 55.500\*
- 58
- 60.5
- 62.500\*
- 63.667\*
- 65
- 69
- 71
- 73.500\*
- 74.667\*
- 77
- 80
- 82
- 87
- 87.667\*
- 88.3
- 89
- 91
- 93.333\*
- 94.8
- 96
- 96.750\*



RS = 95 Risagomata monte briglia tarata

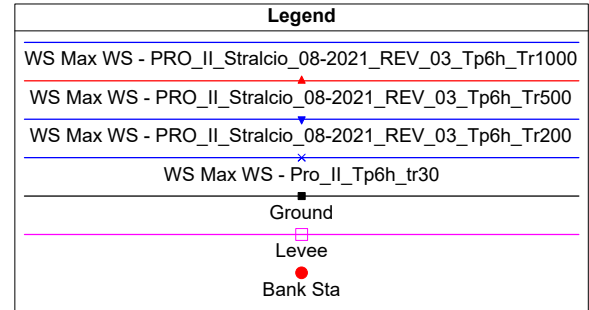
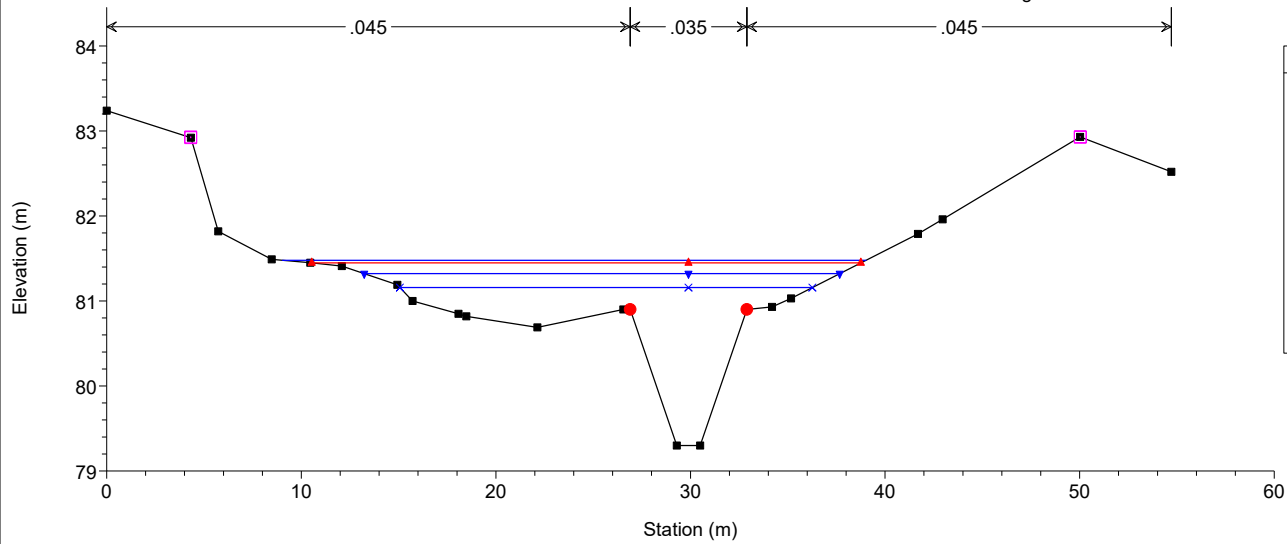


RS = 94.9 IS Briglia tarata



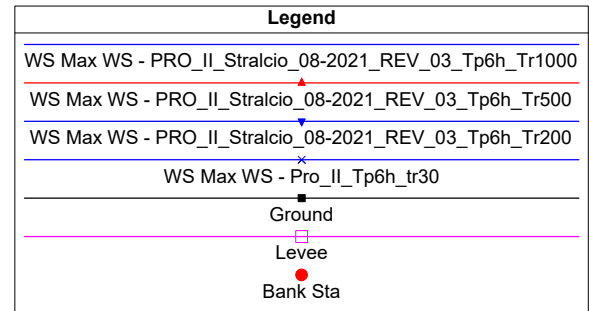
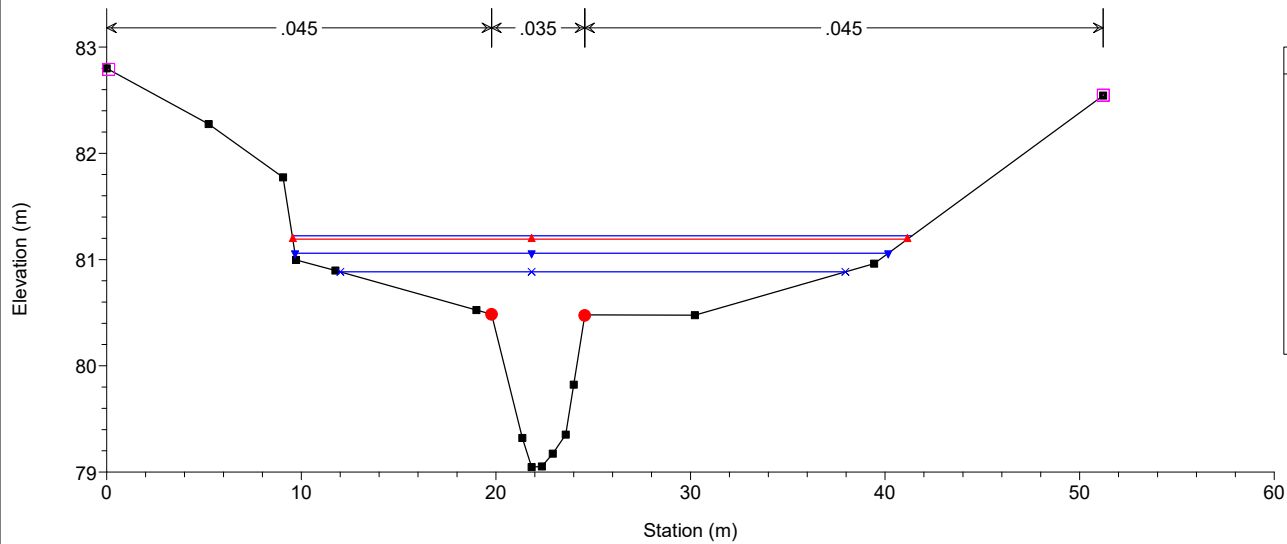
RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 94.8 Ausiliaria valle briglia tarata

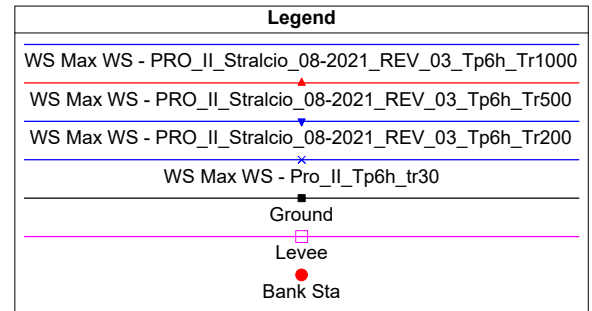
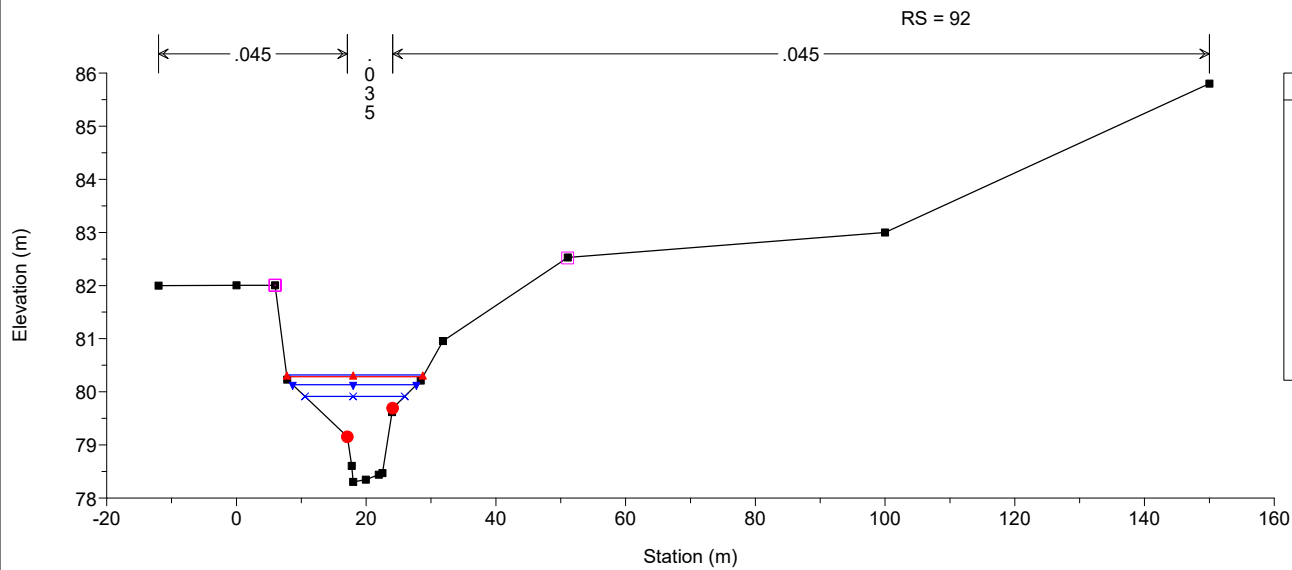
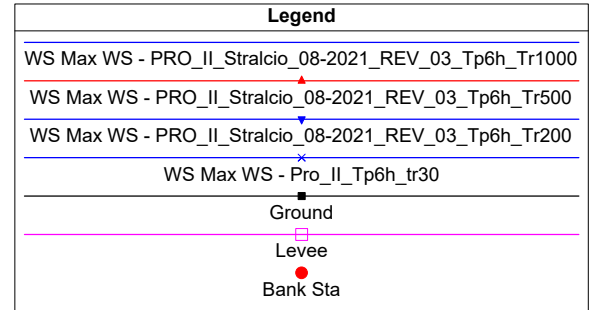
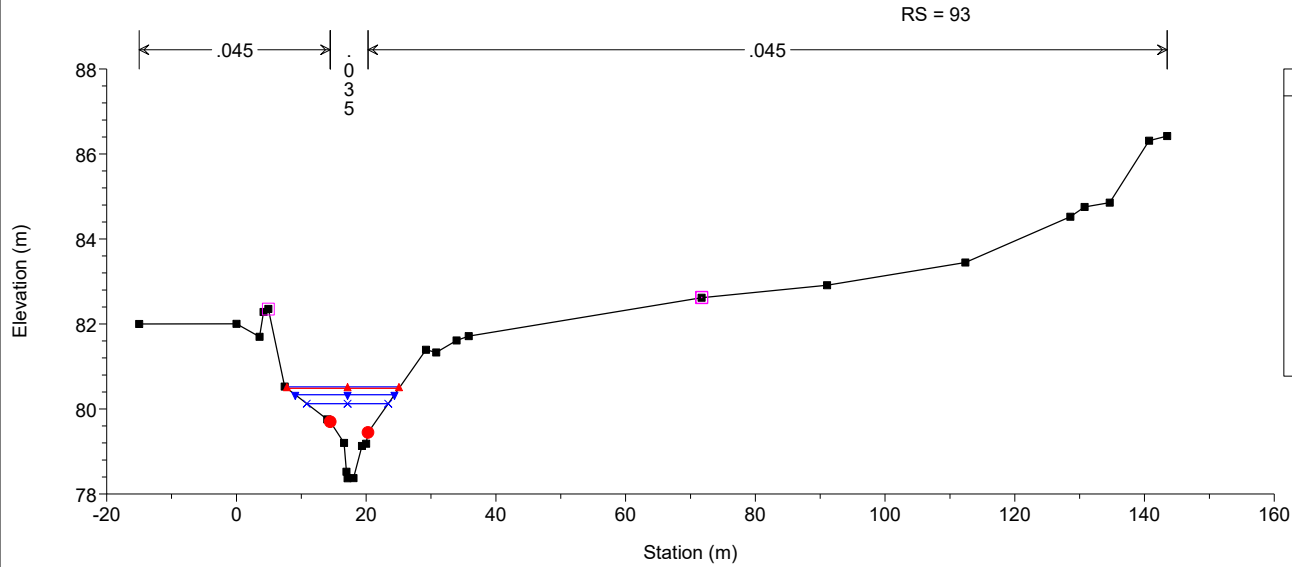


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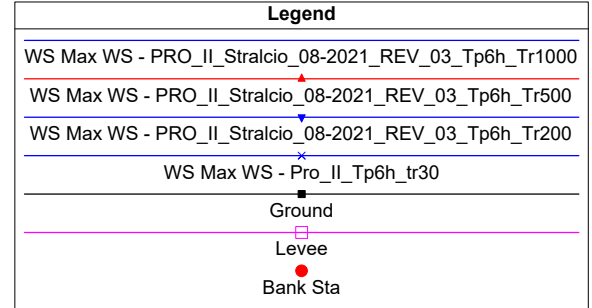
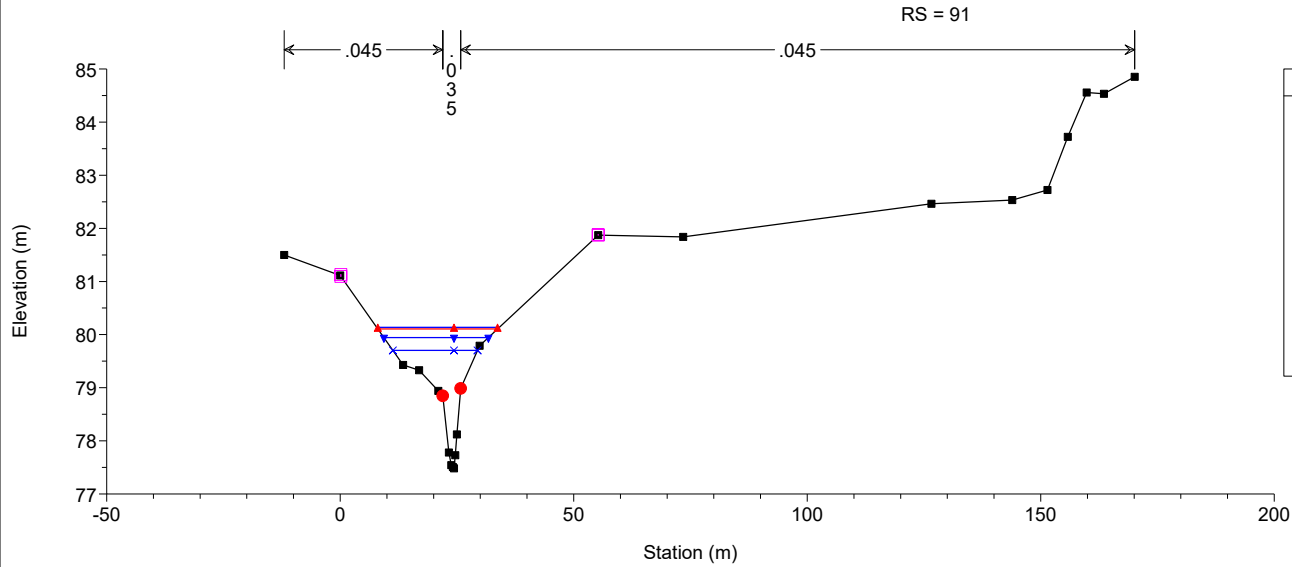
RS = 94



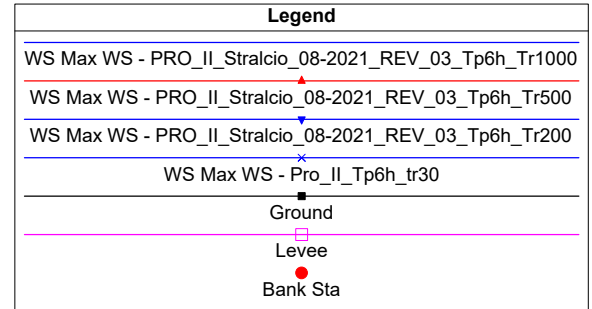
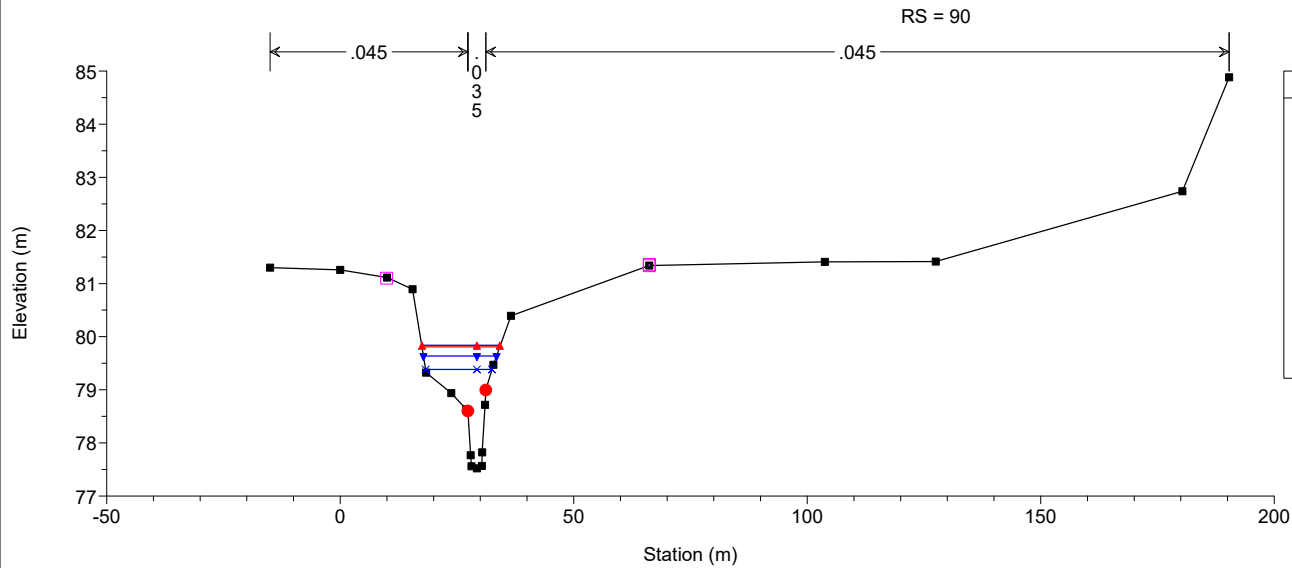




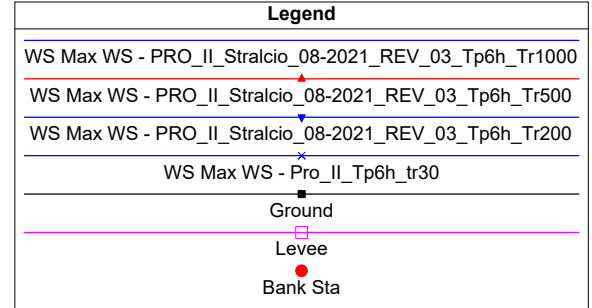
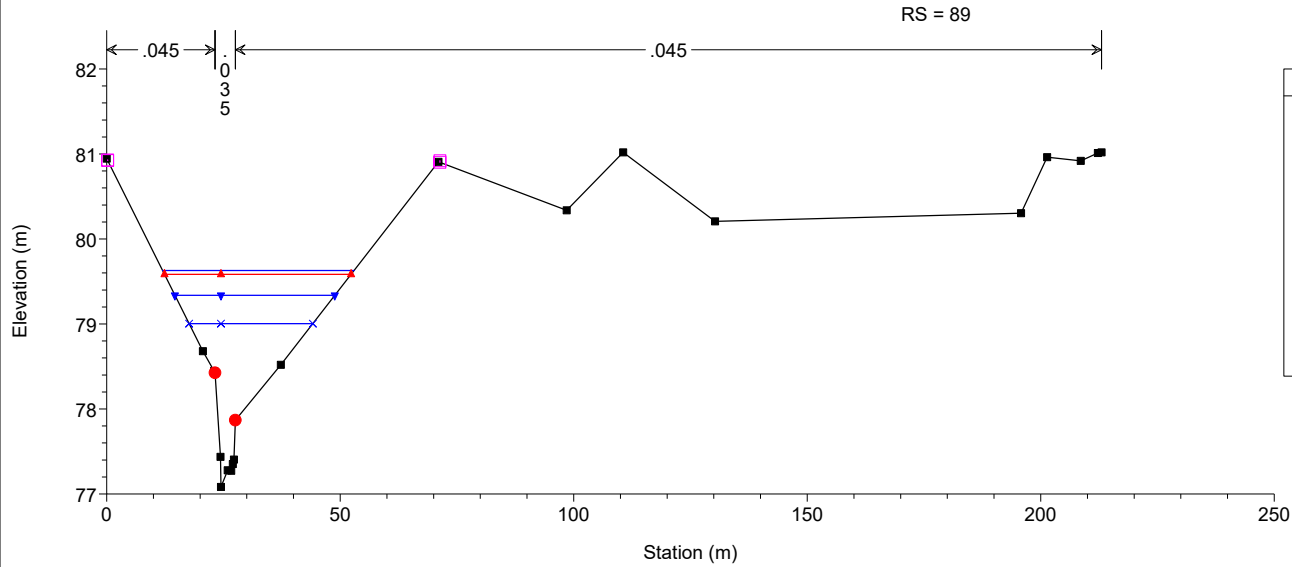
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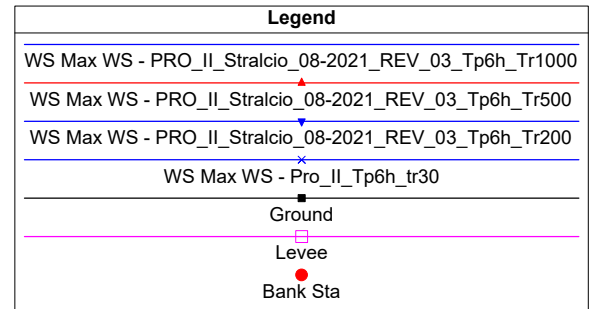
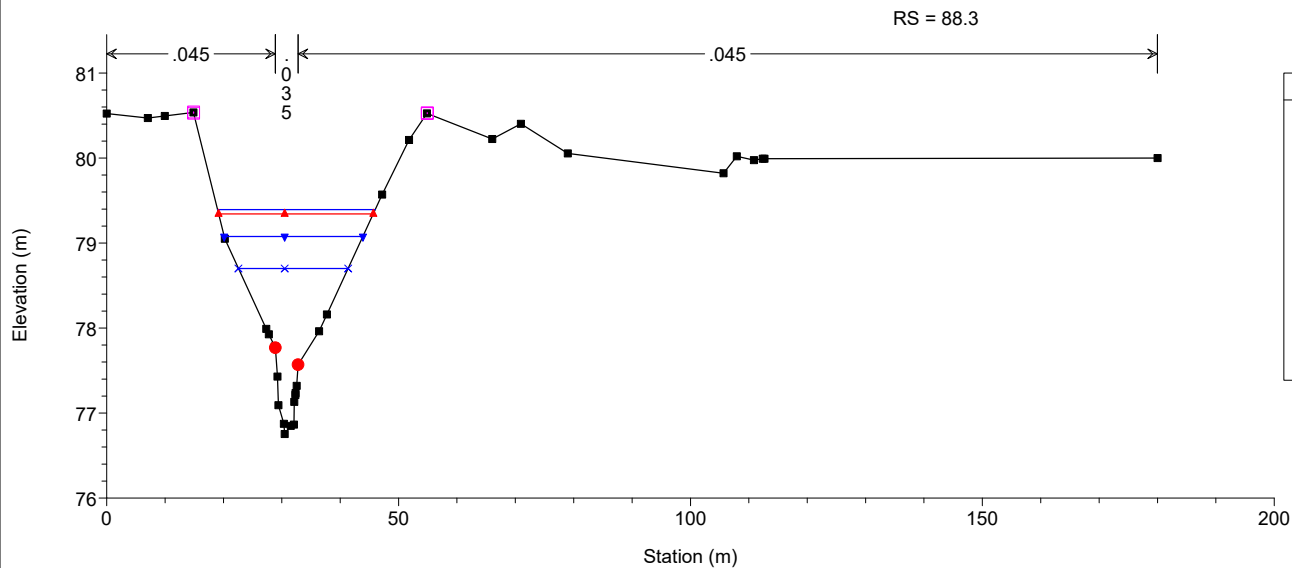
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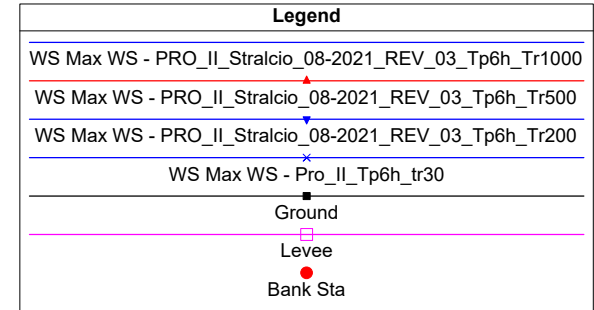
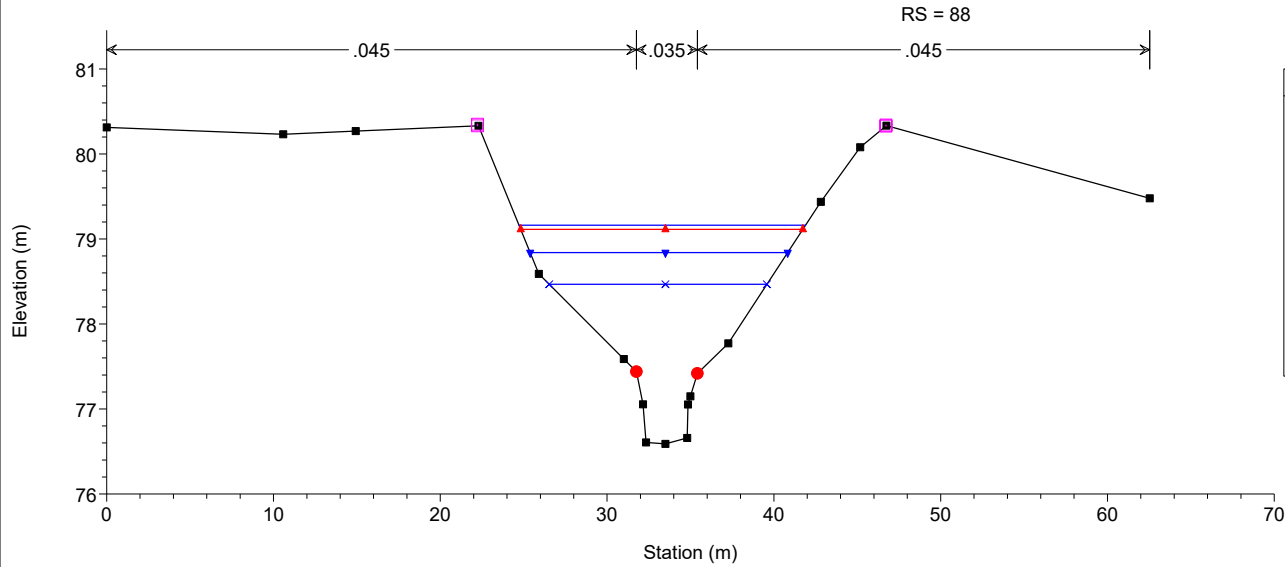
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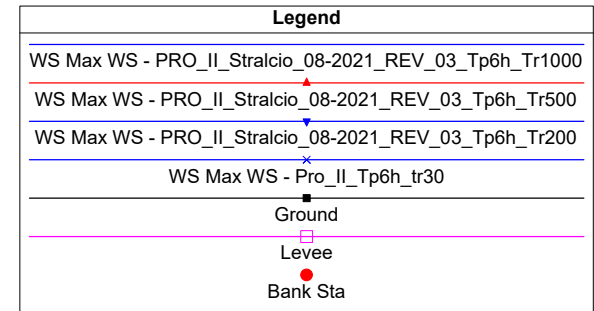
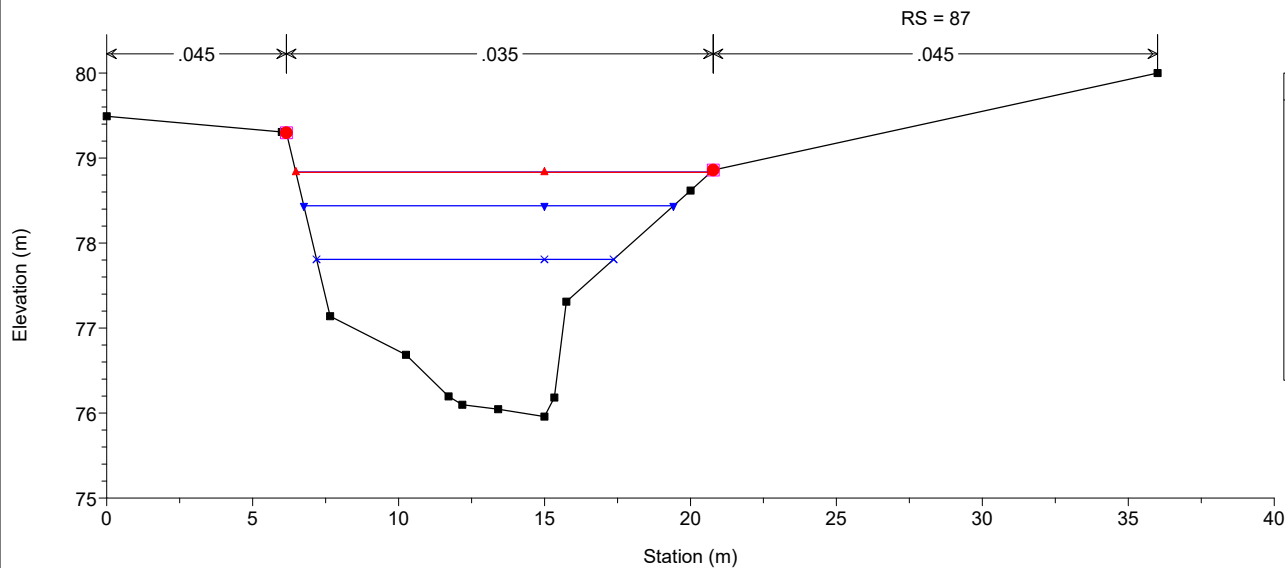
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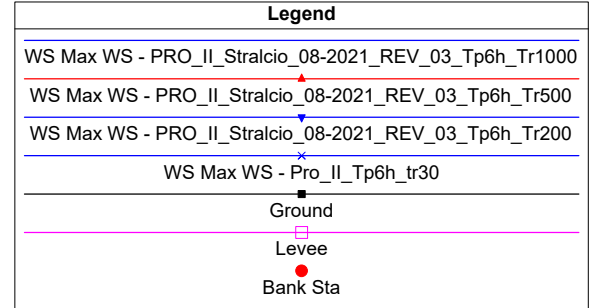
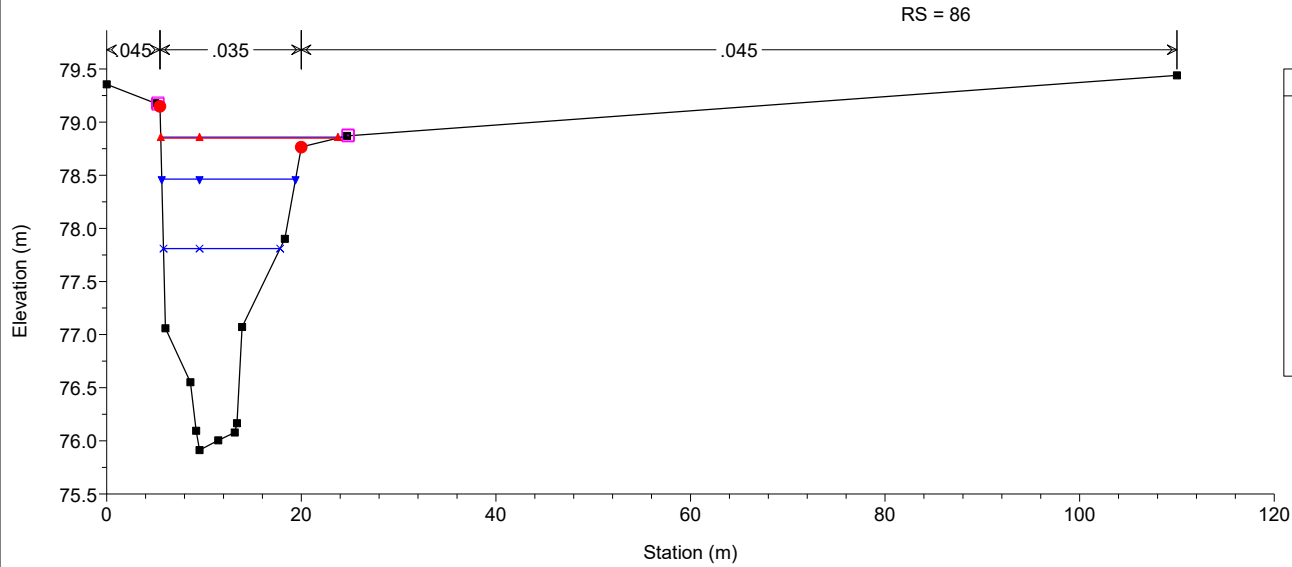
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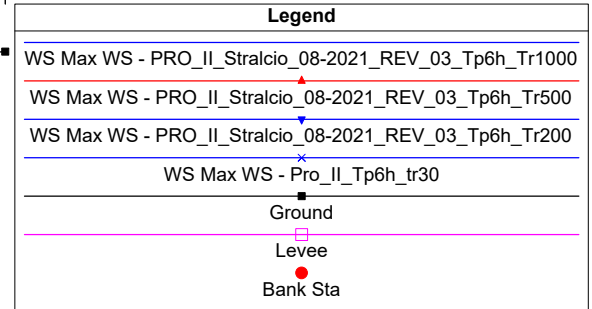
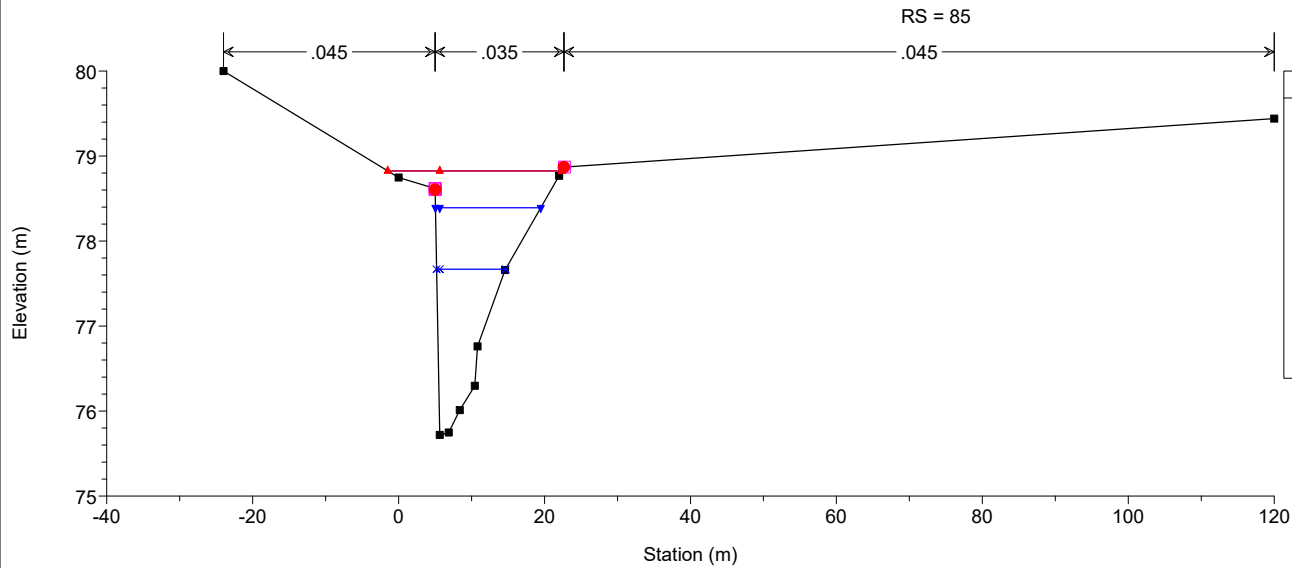
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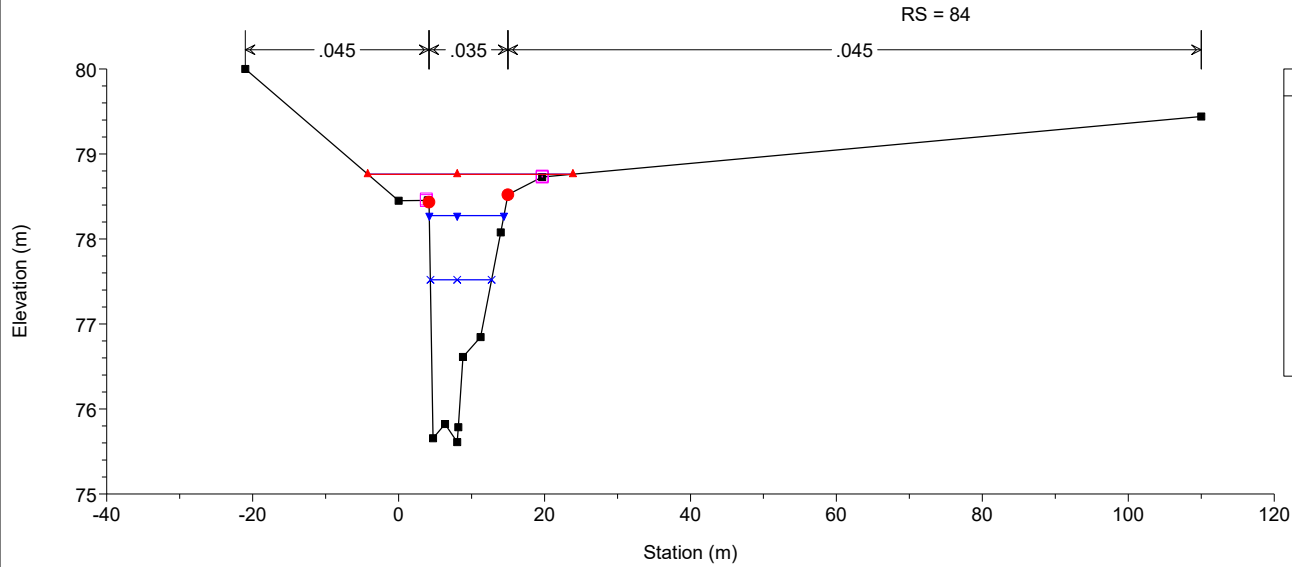
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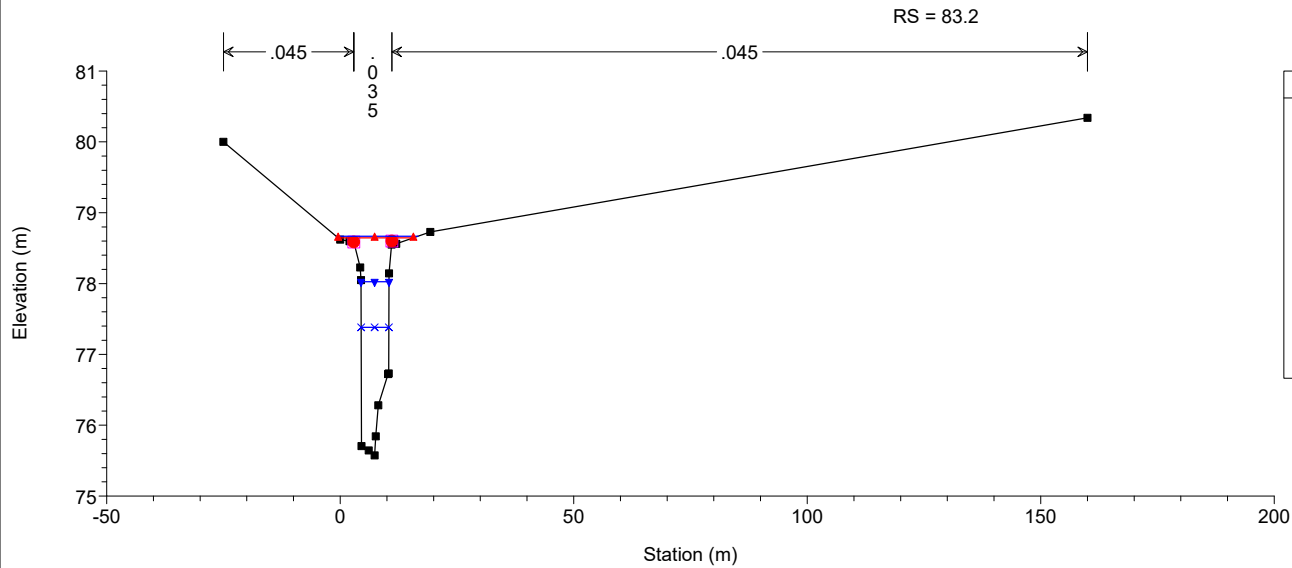


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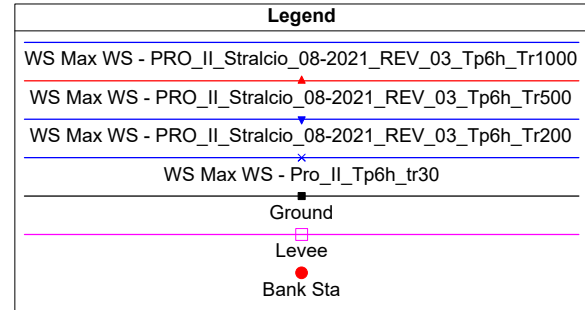
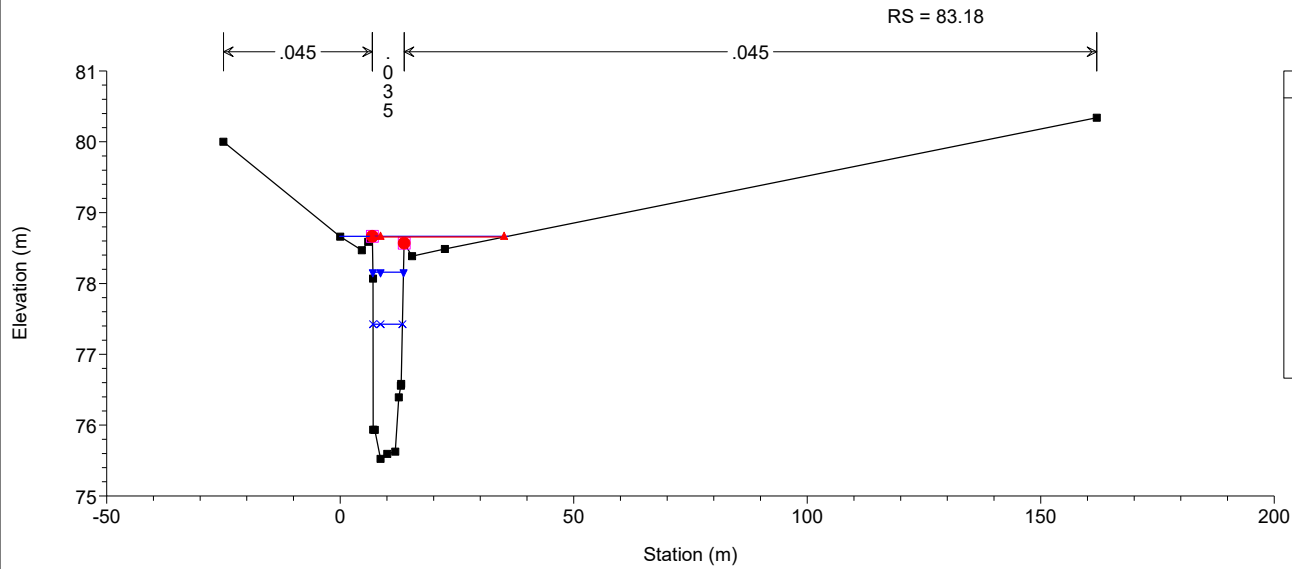
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WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	×
WS Max WS - Pro_II_Tp6h_tr30	×
Ground	■
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

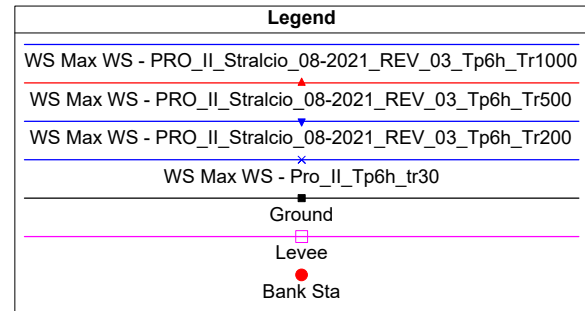
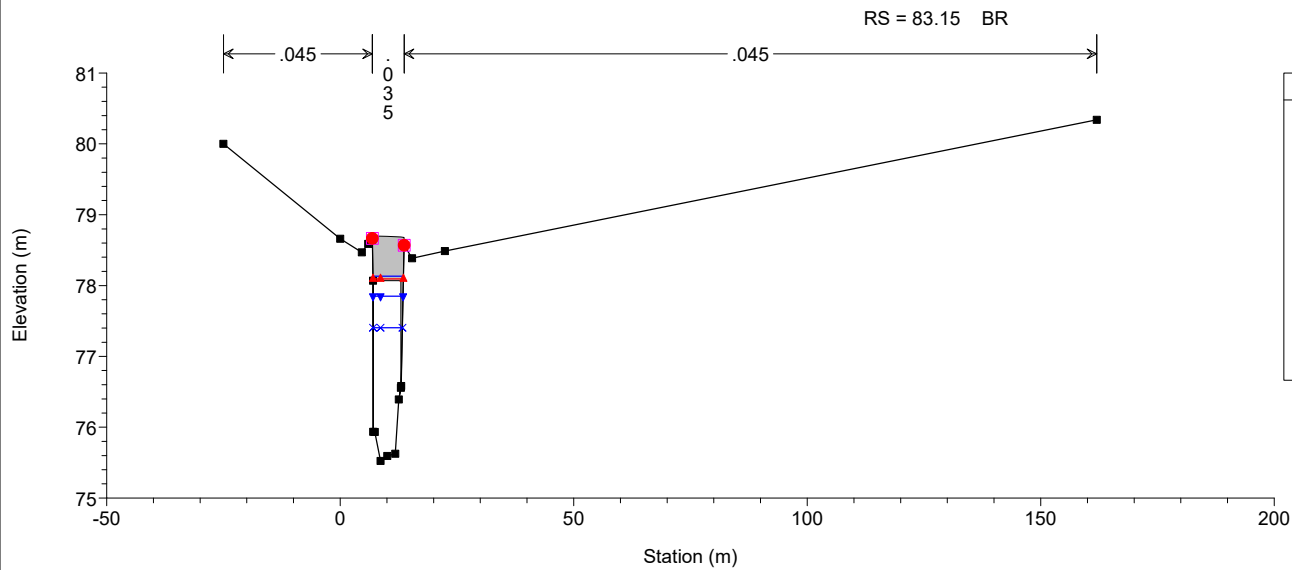


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	×
WS Max WS - Pro_II_Tp6h_tr30	×
Ground	■
Levee	□
Bank Sta	●

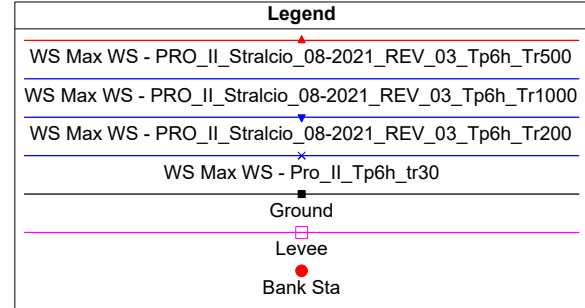
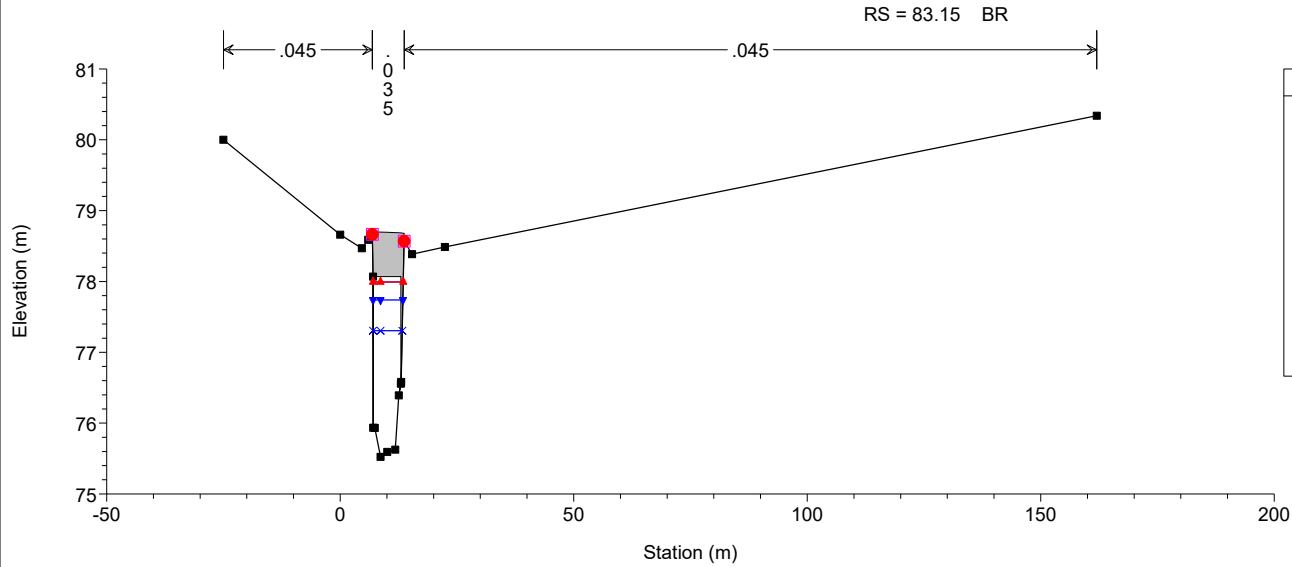
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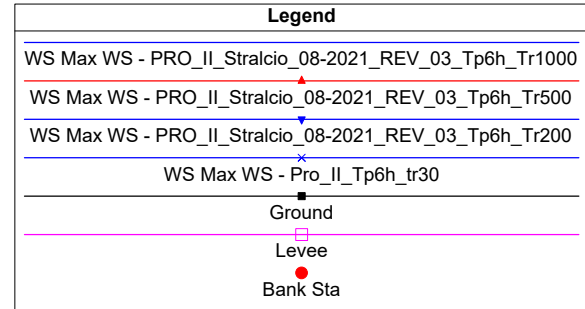
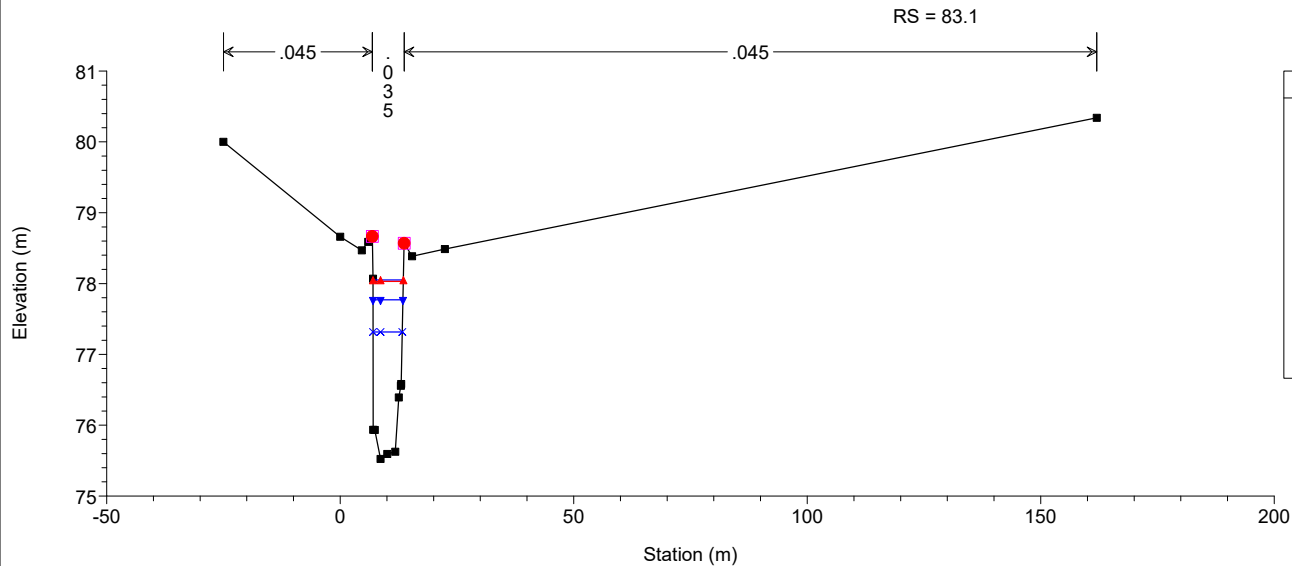
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RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

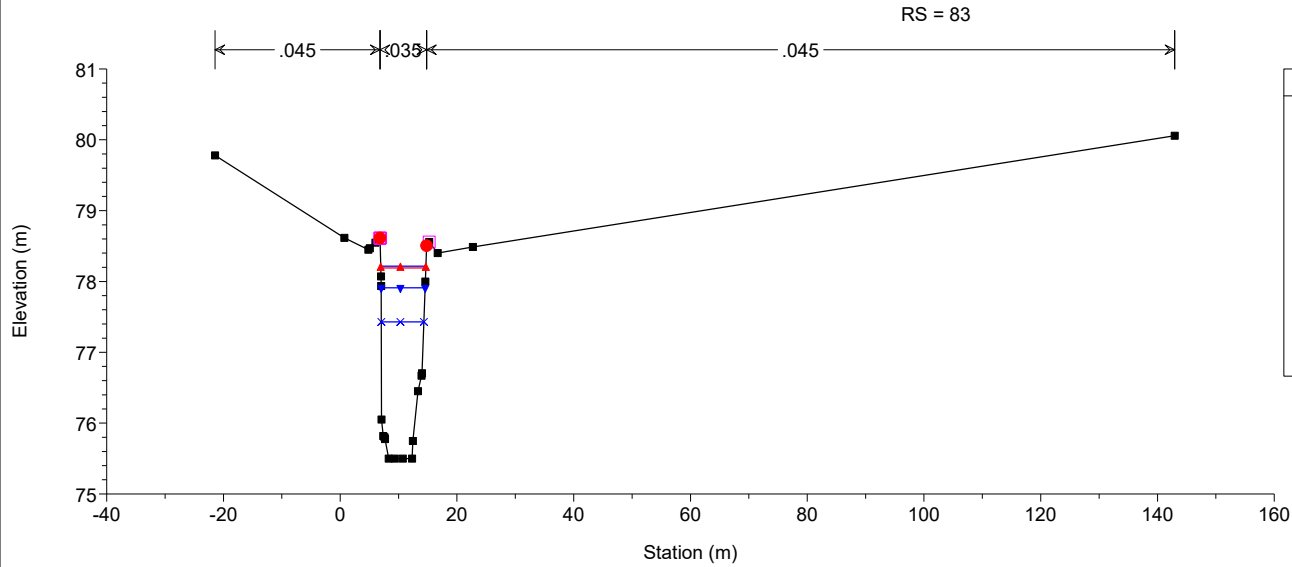


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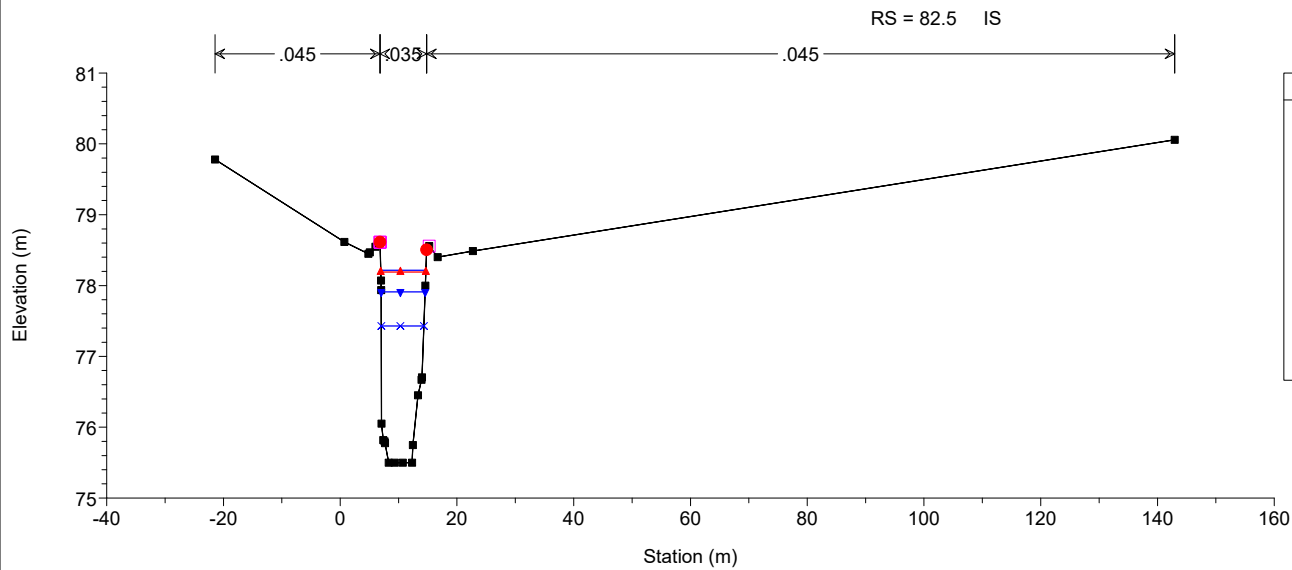




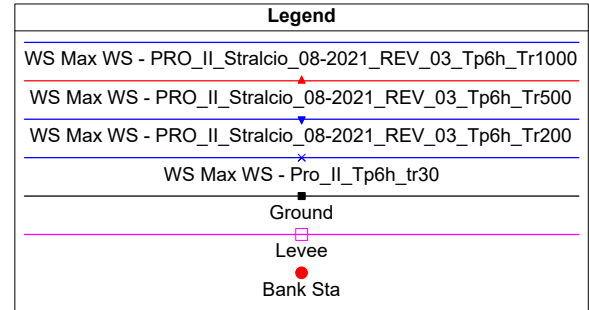
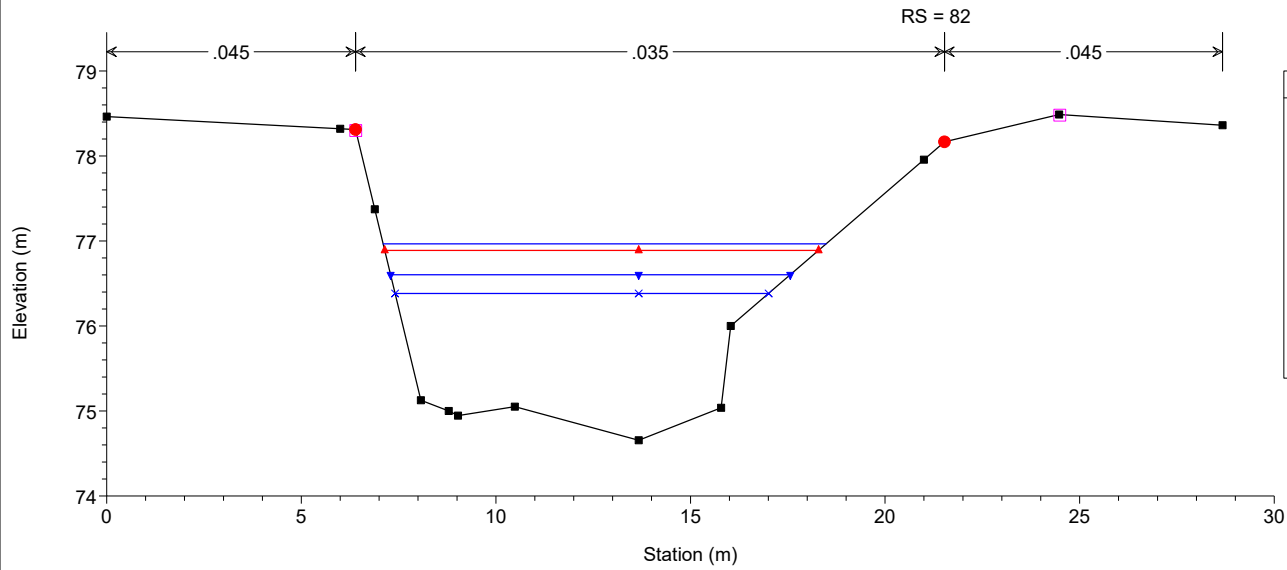
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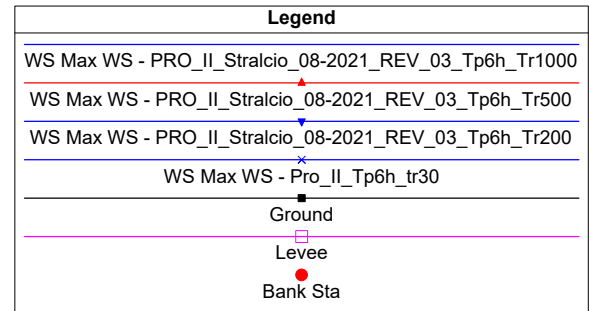
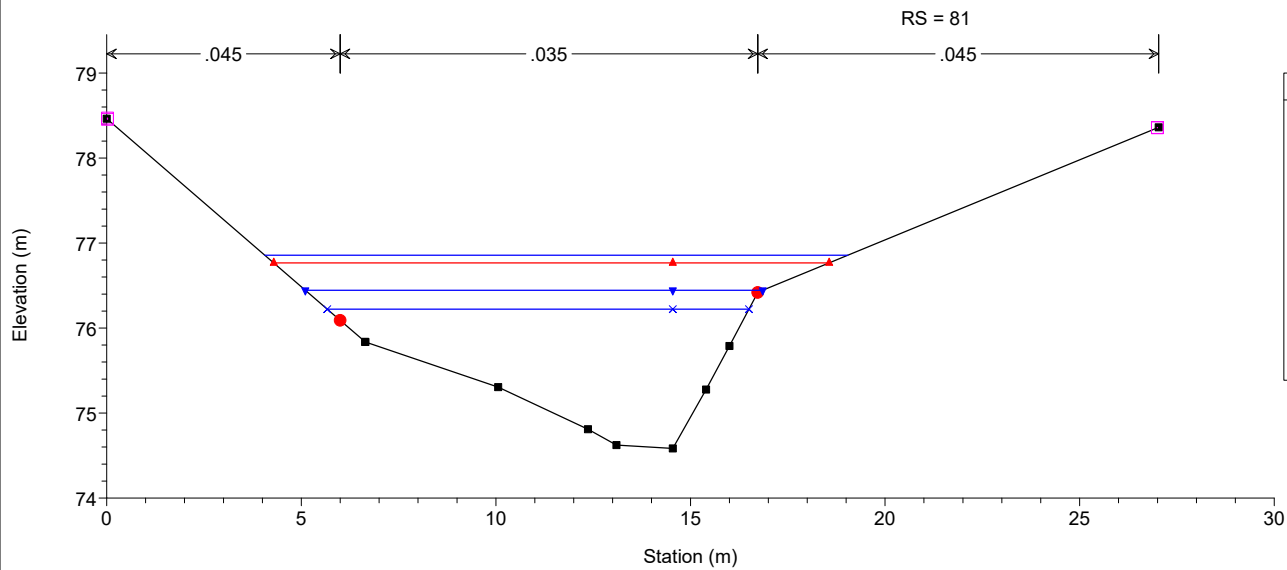
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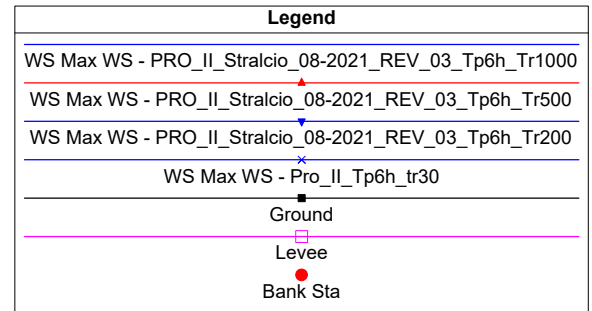
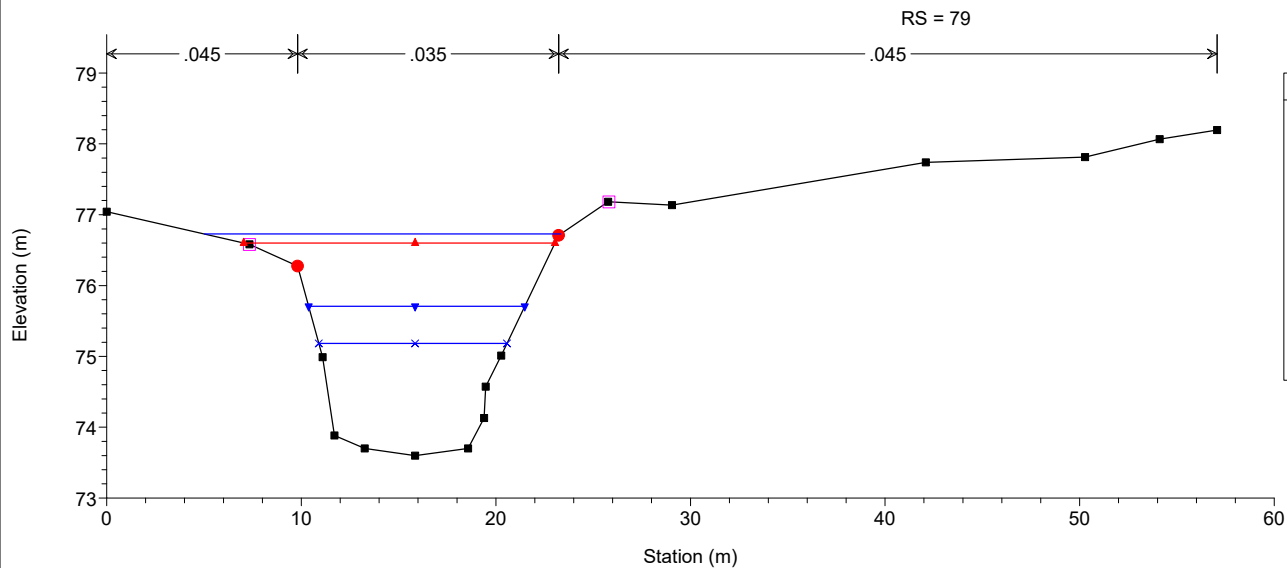
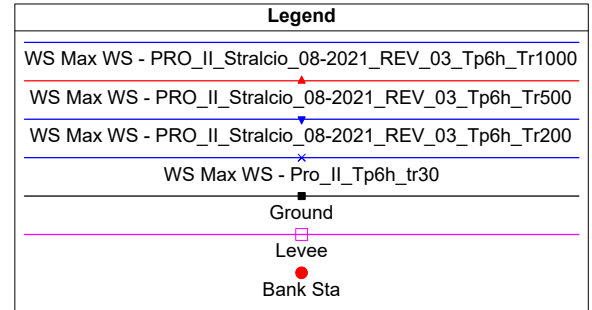
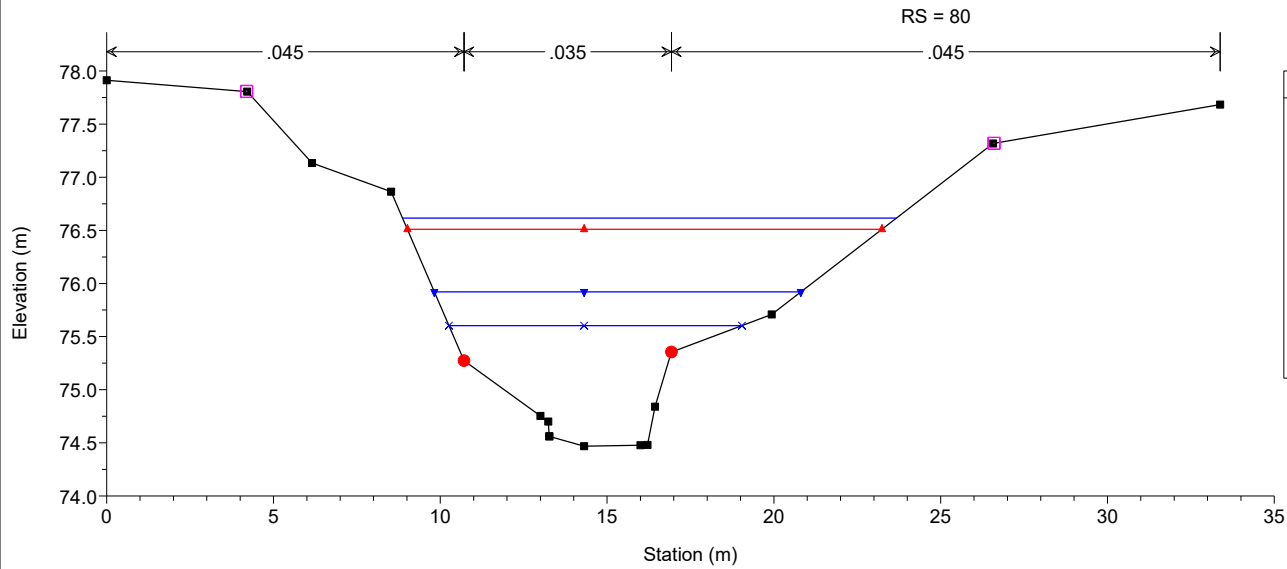


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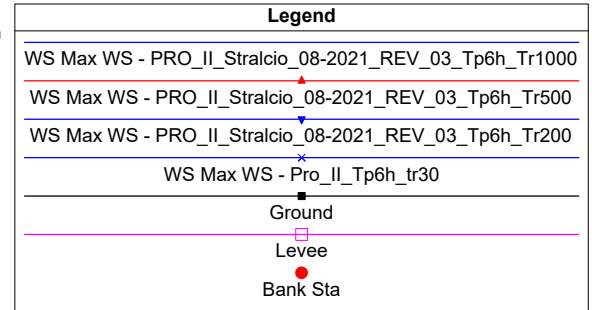
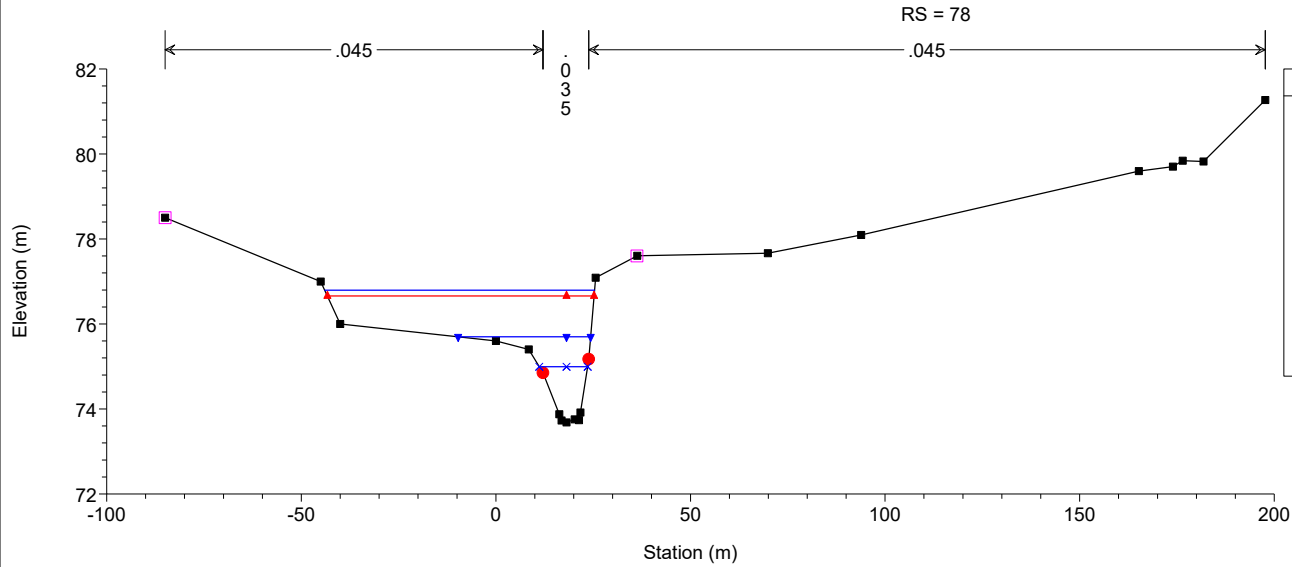


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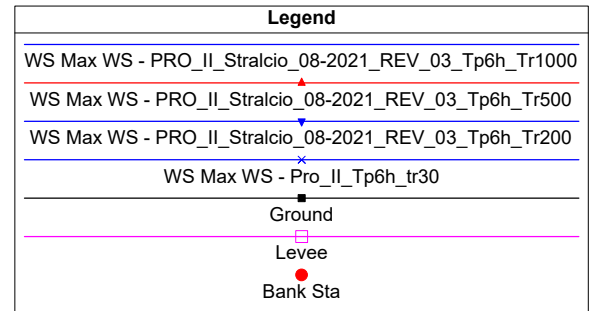
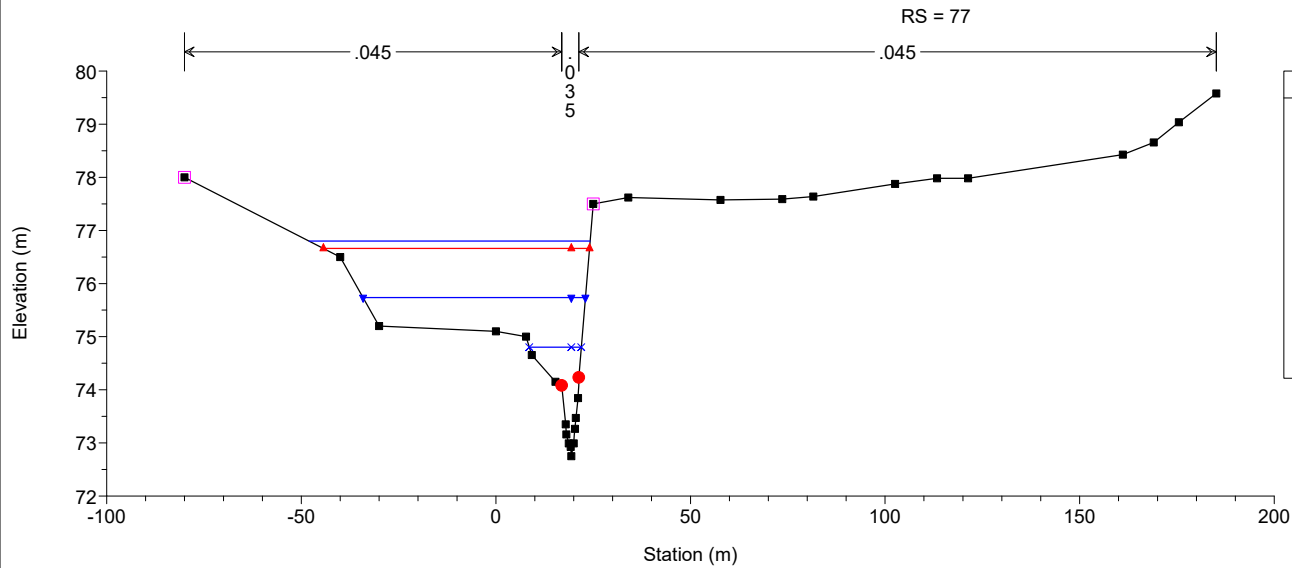




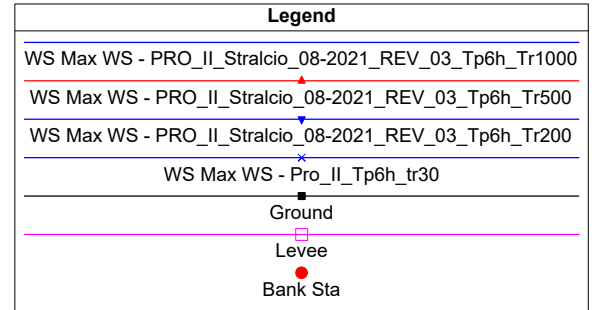
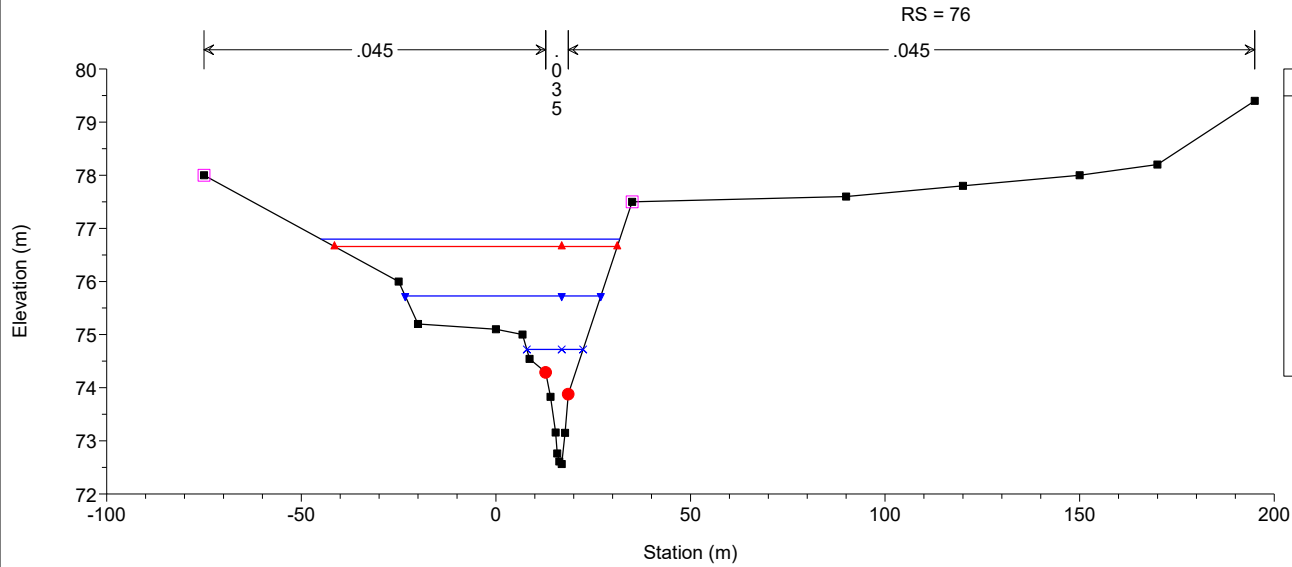
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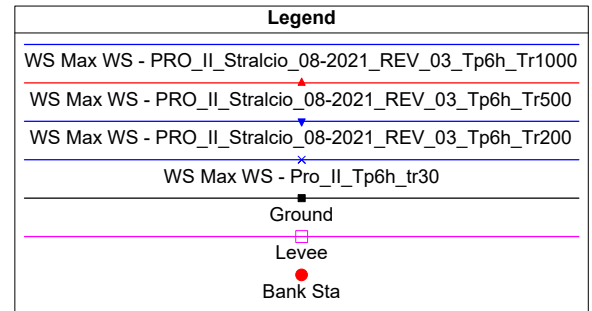
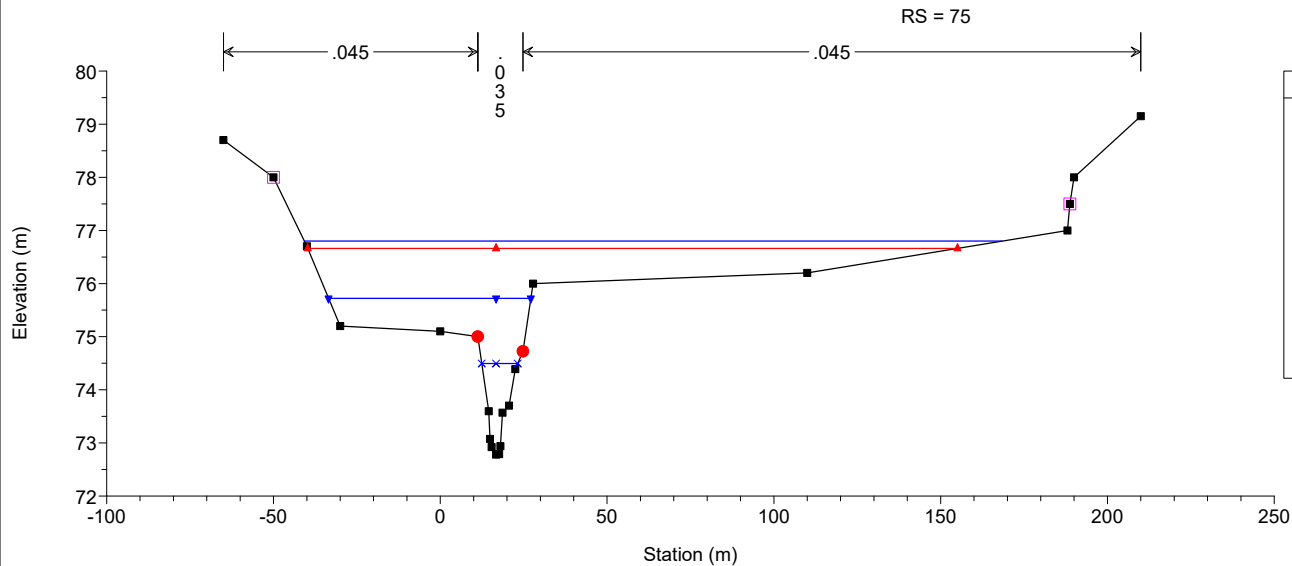
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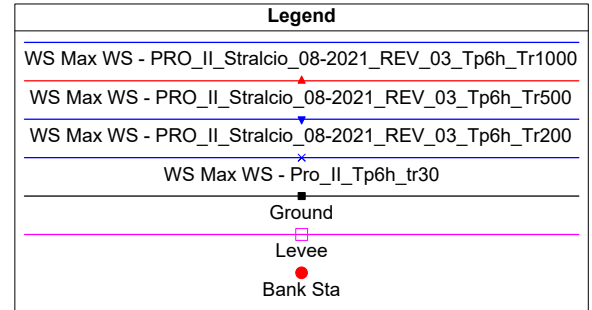
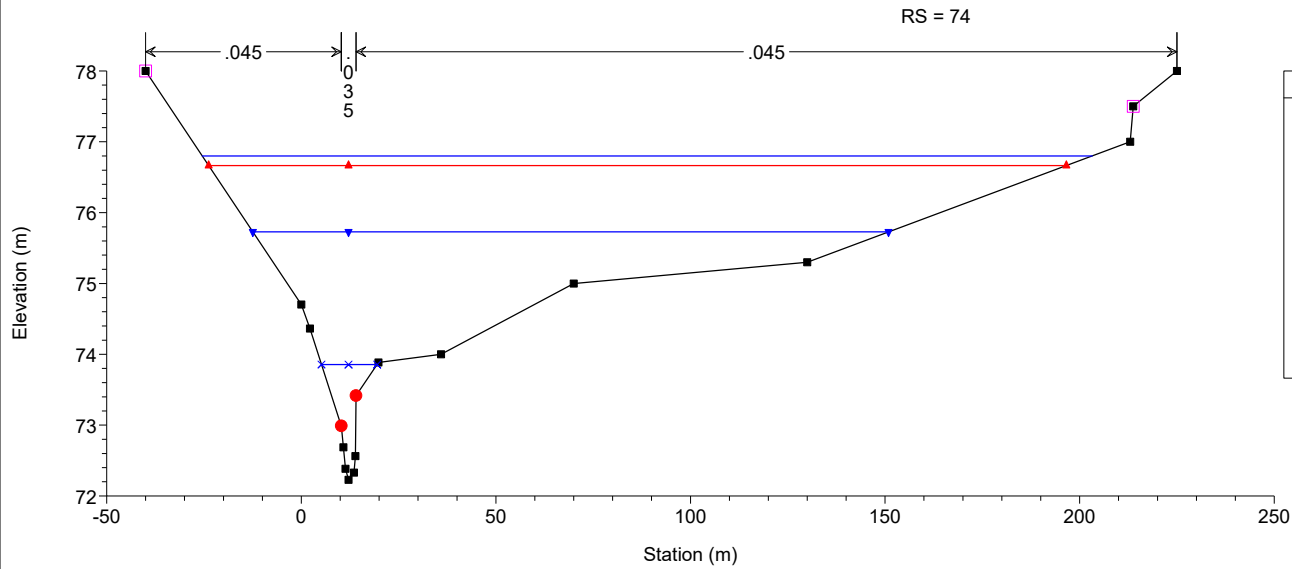
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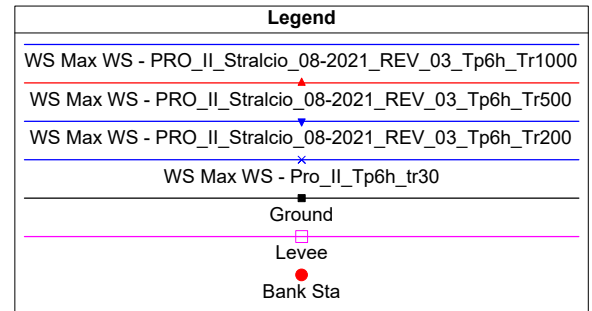
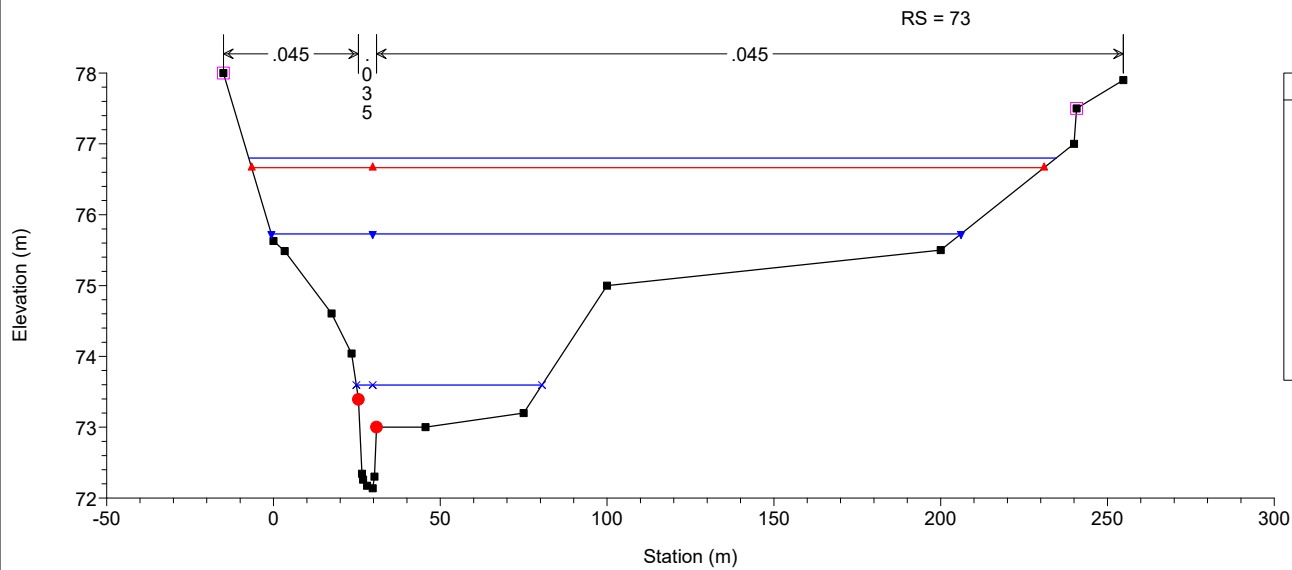
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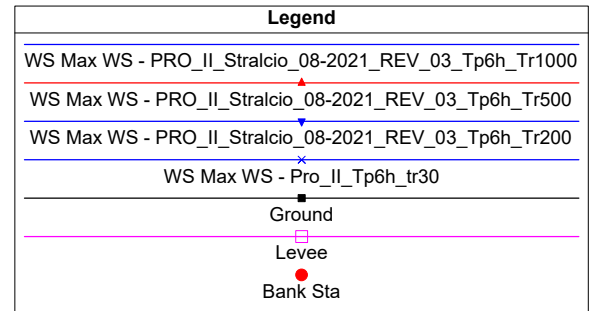
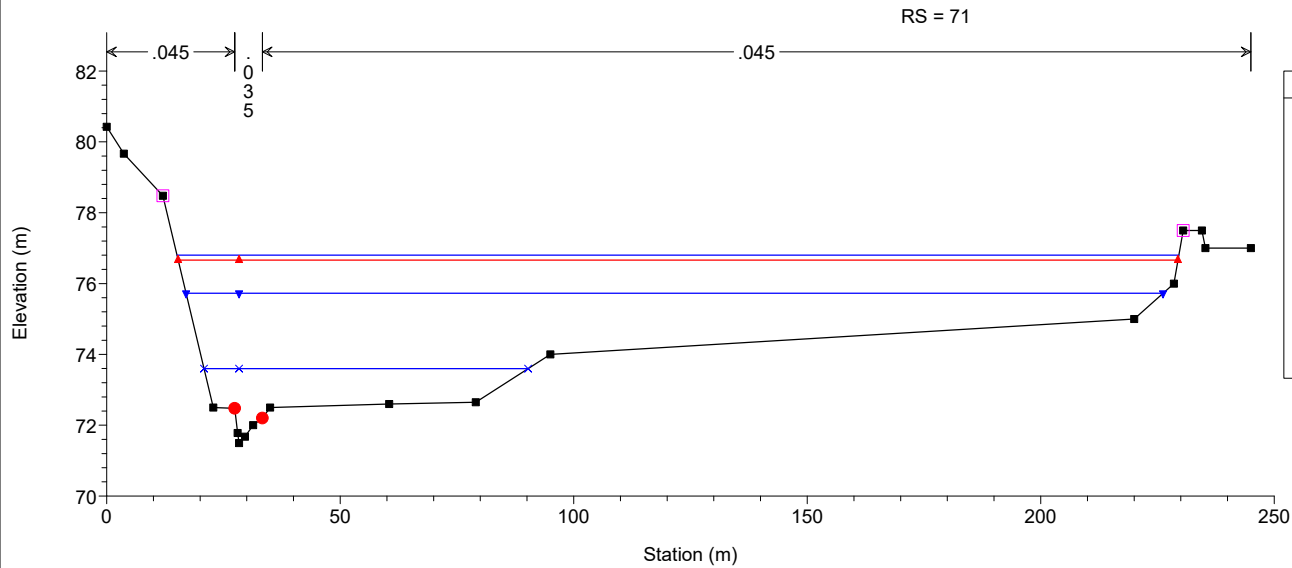
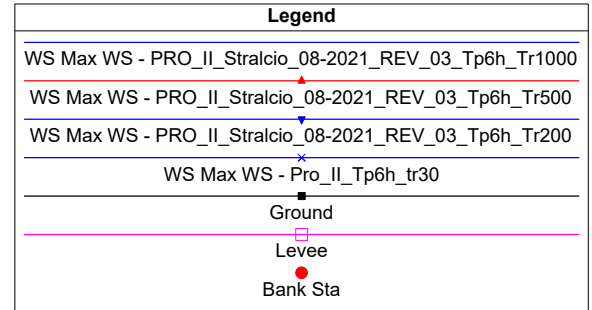
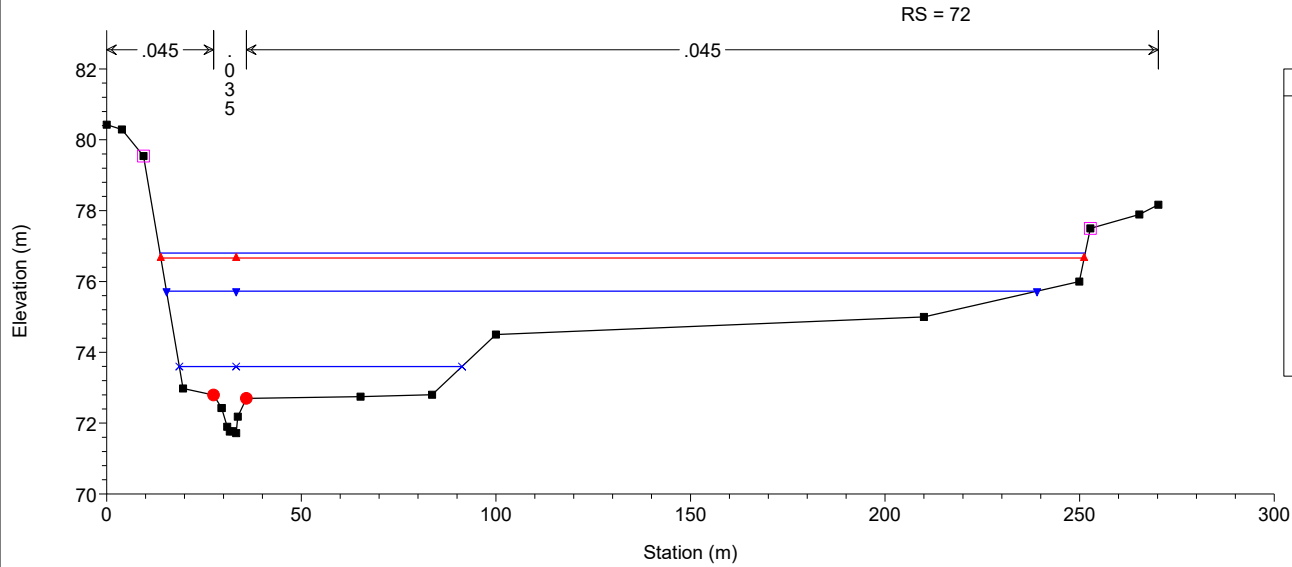


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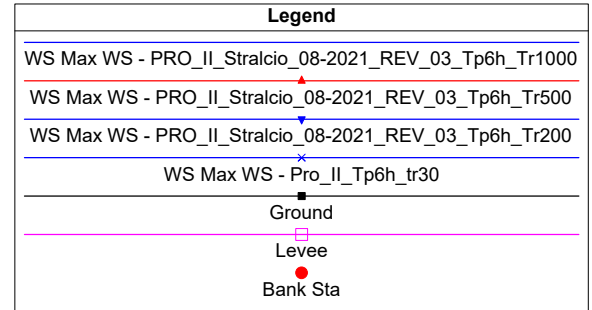
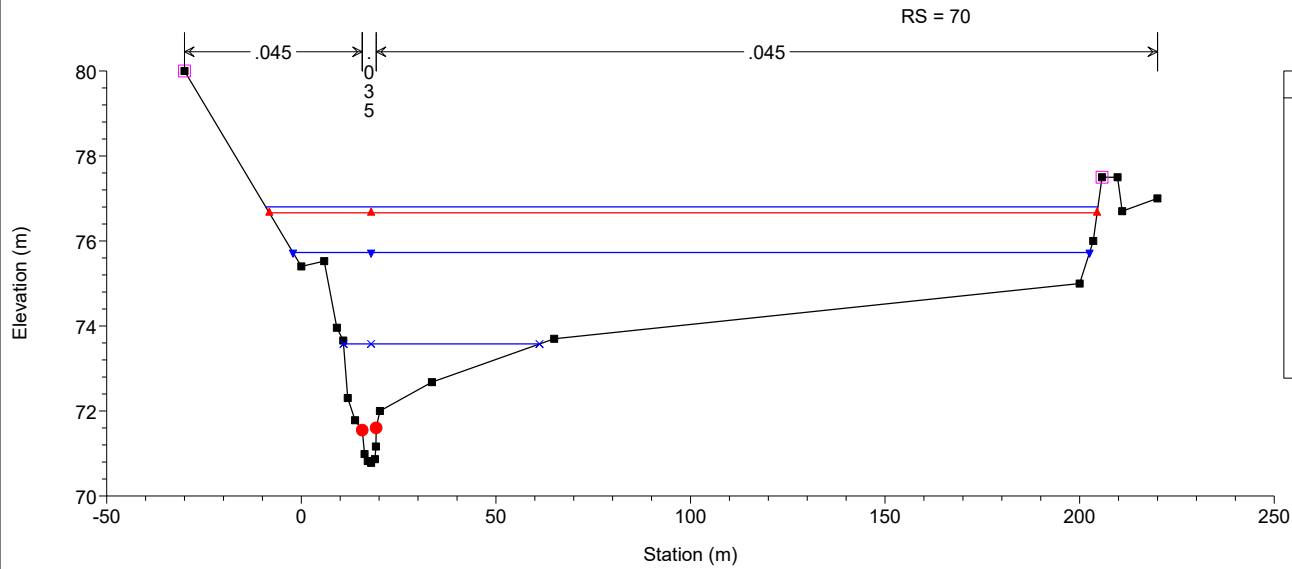


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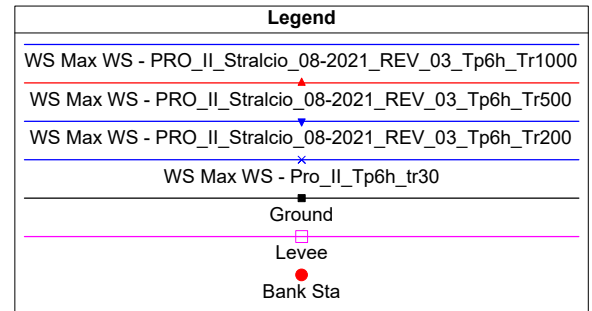
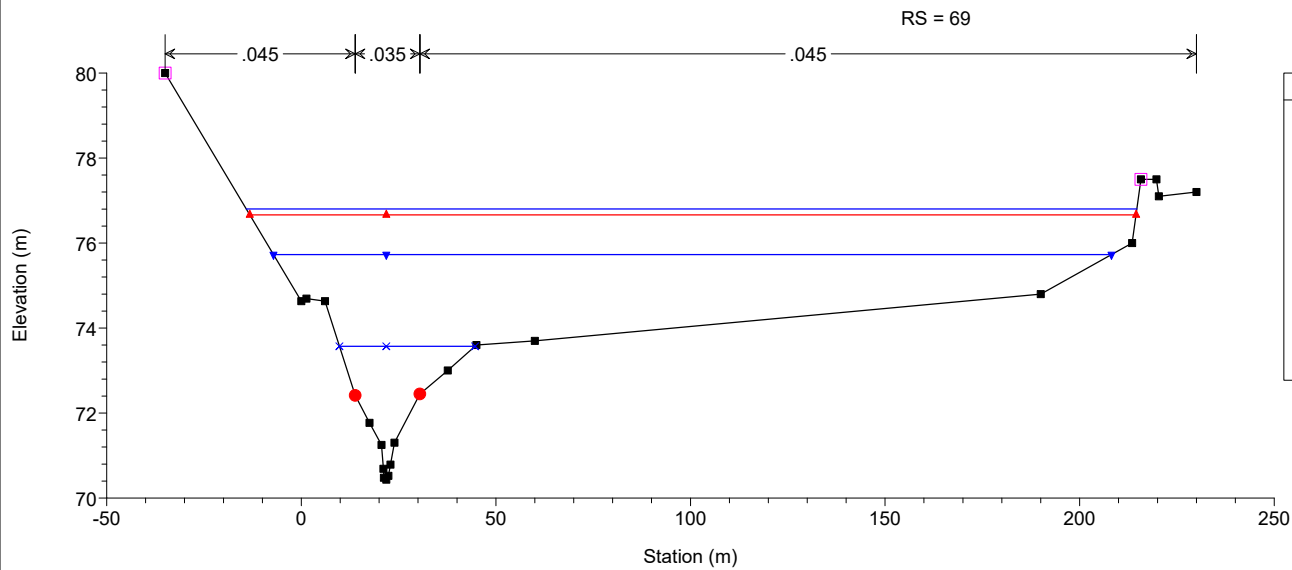




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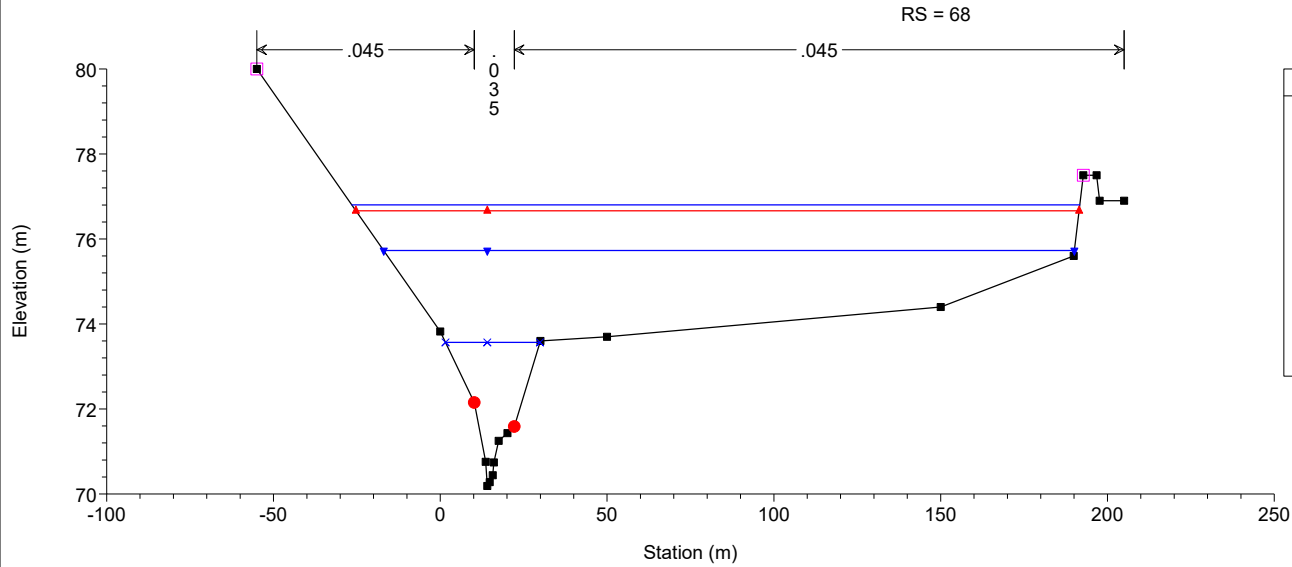


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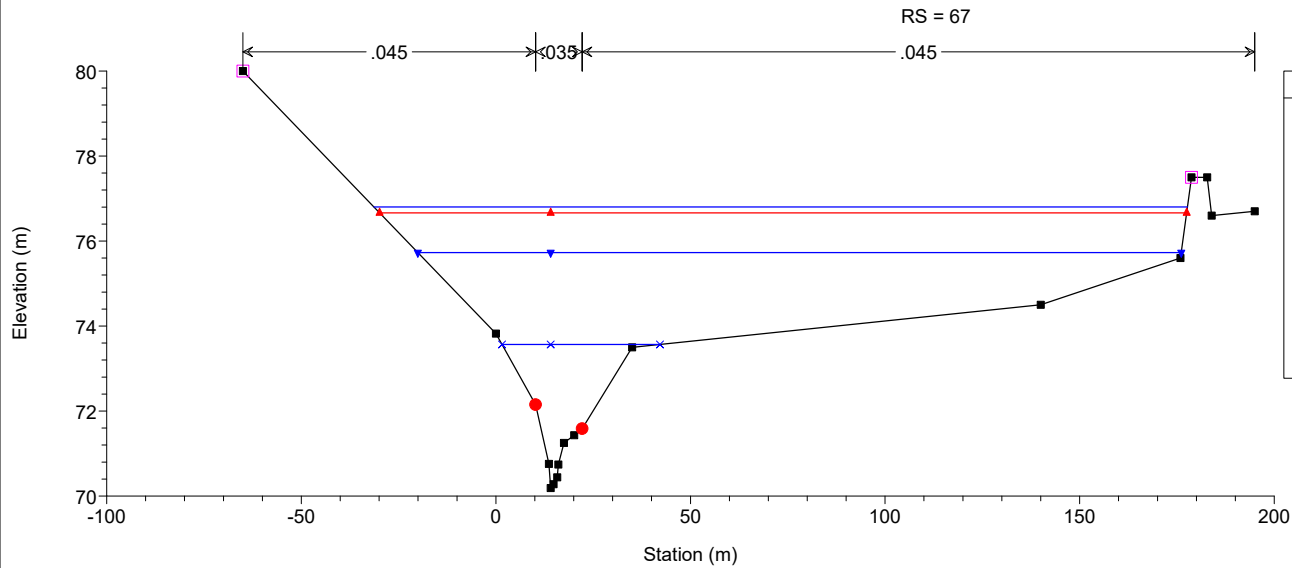




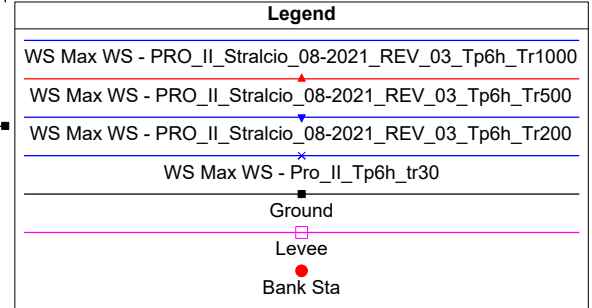
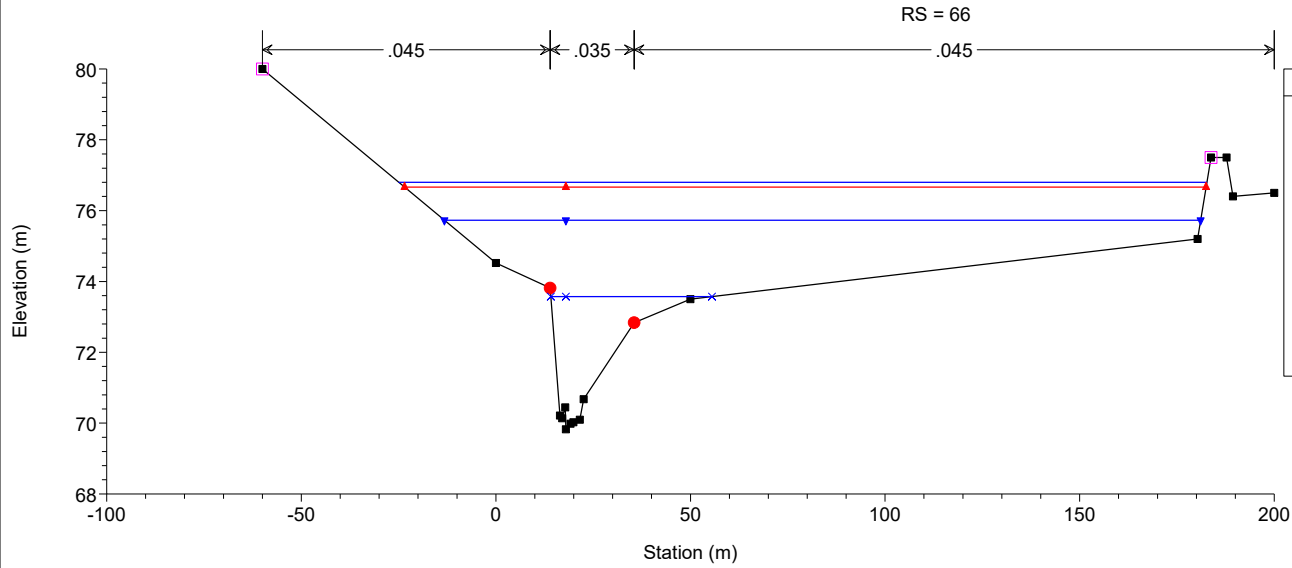
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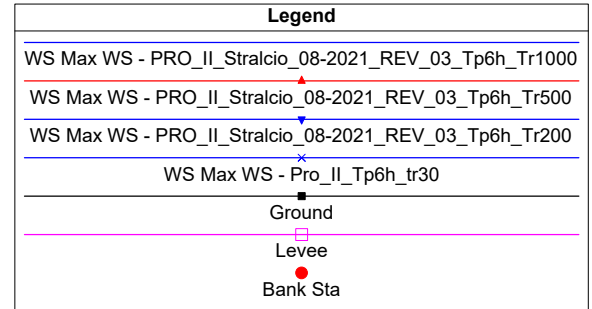
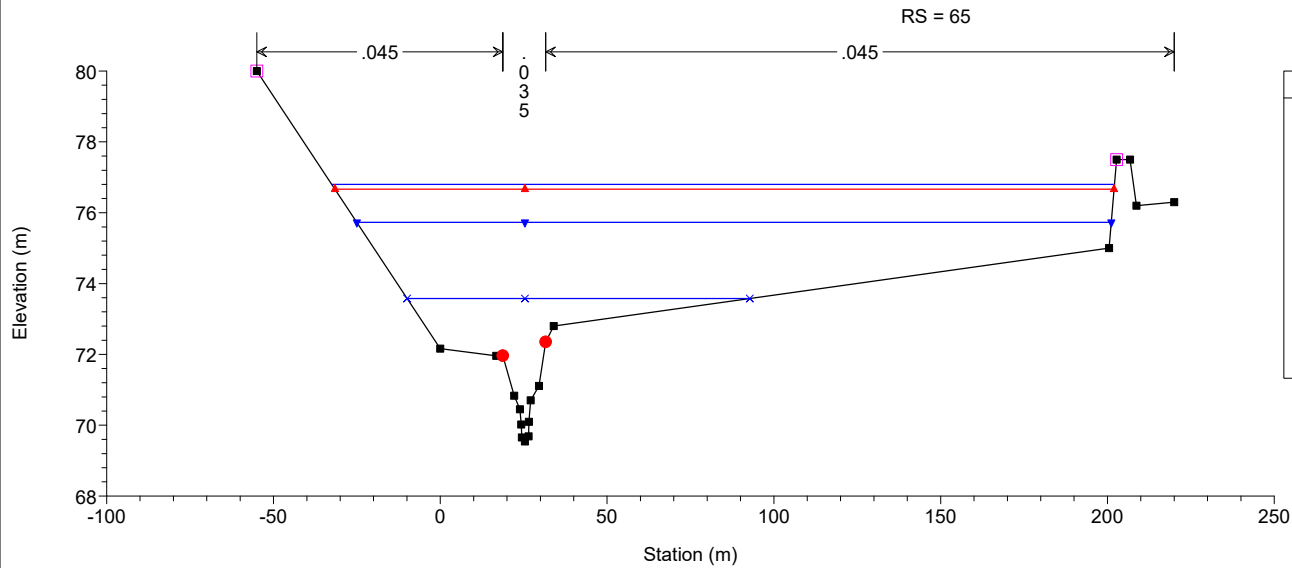
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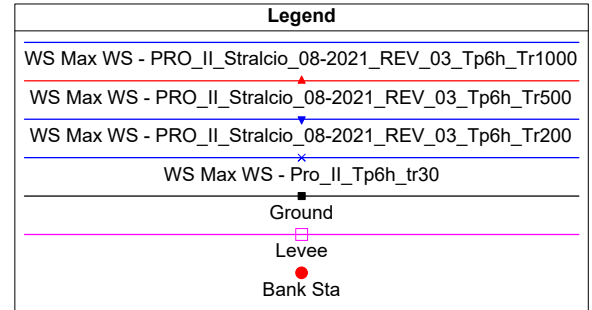
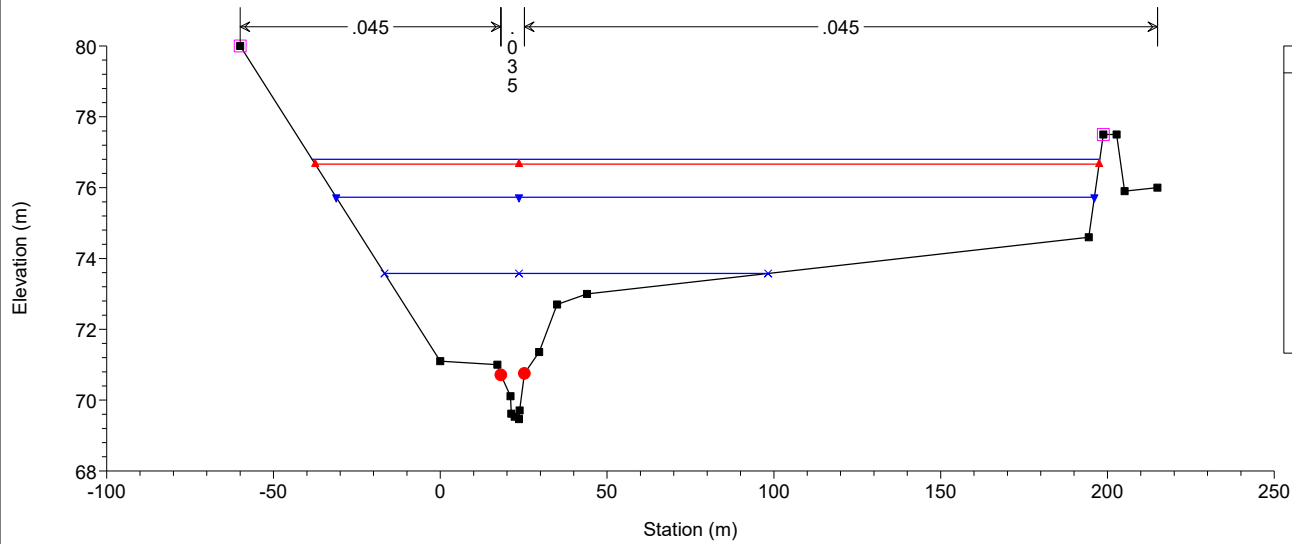


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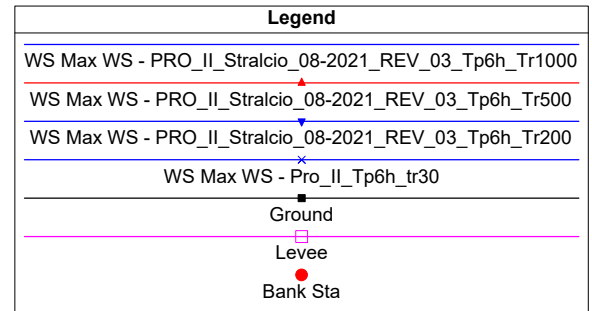
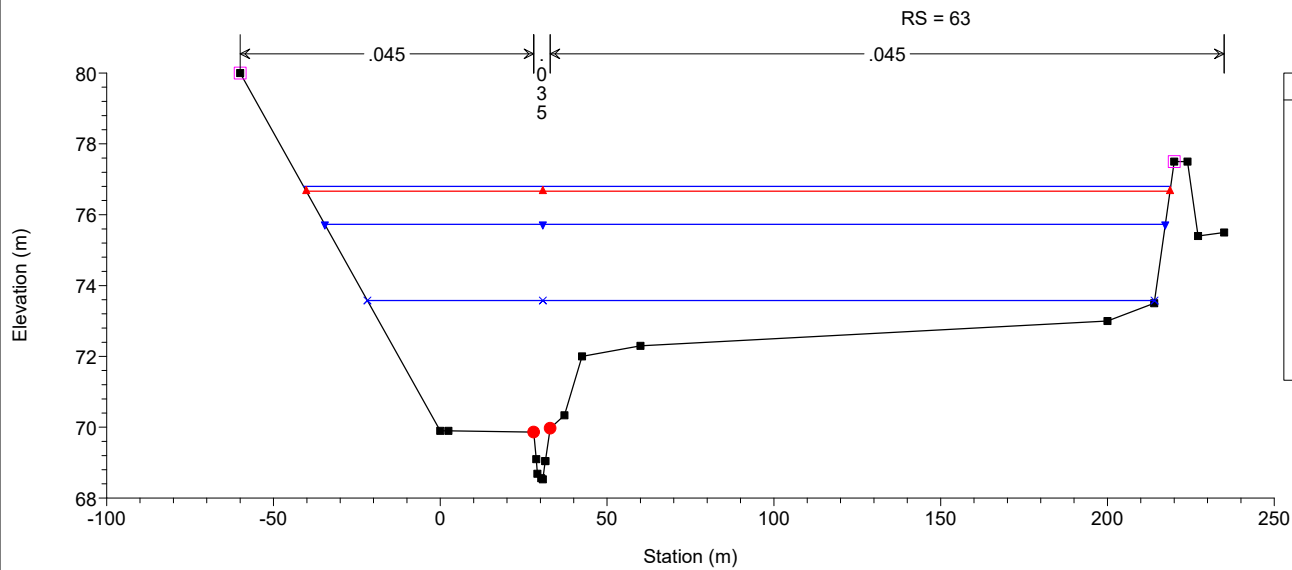
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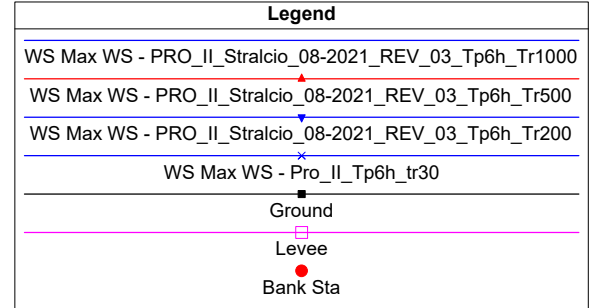
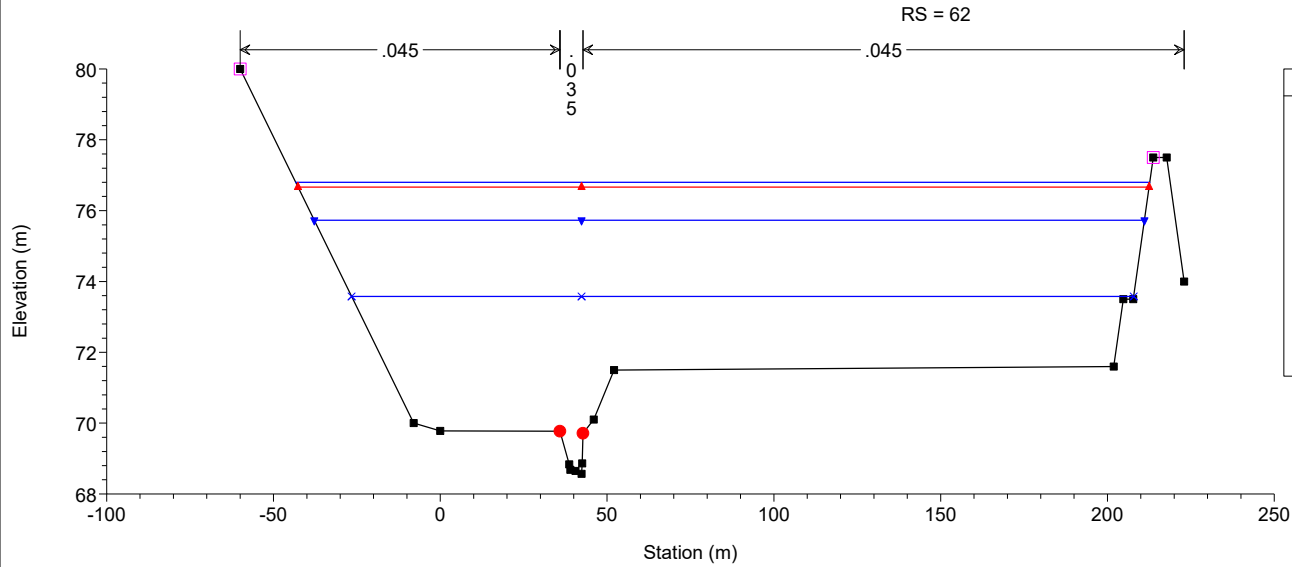


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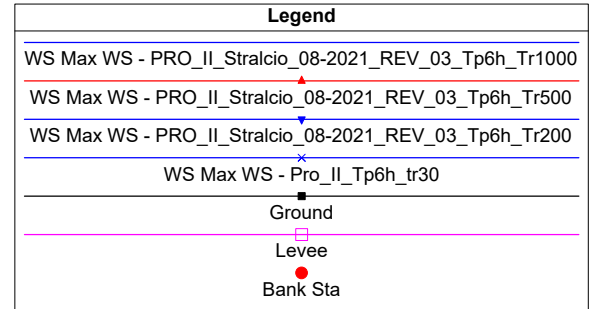
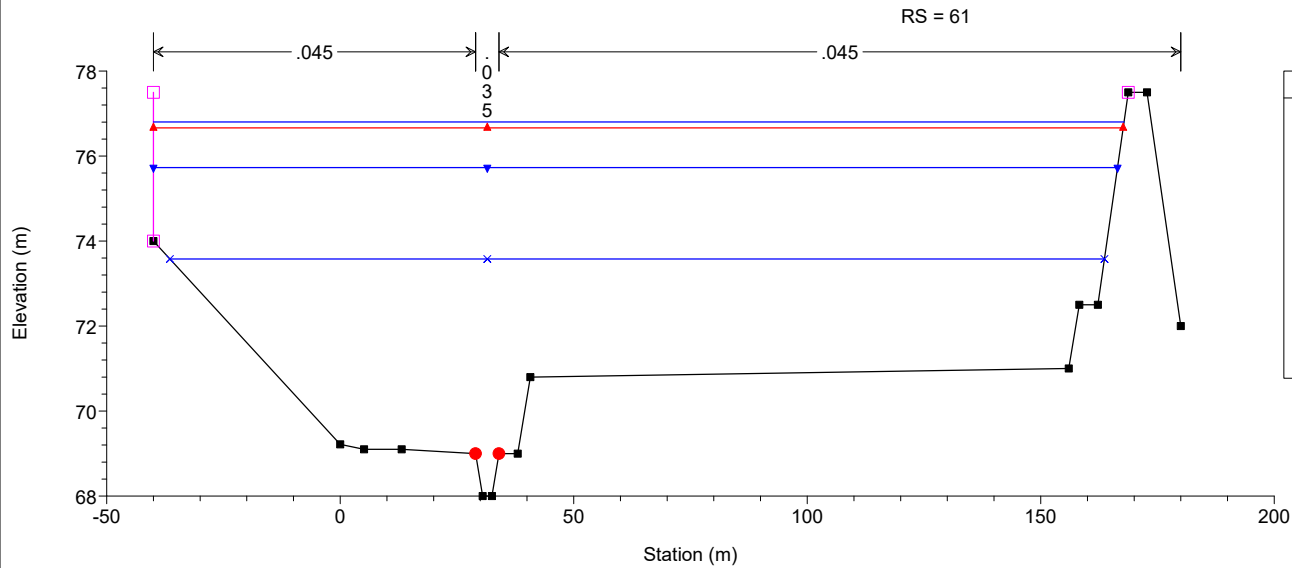
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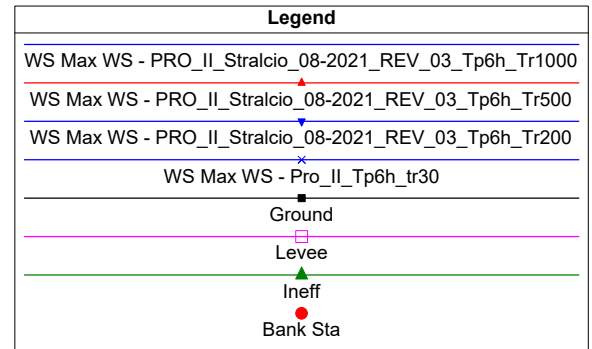
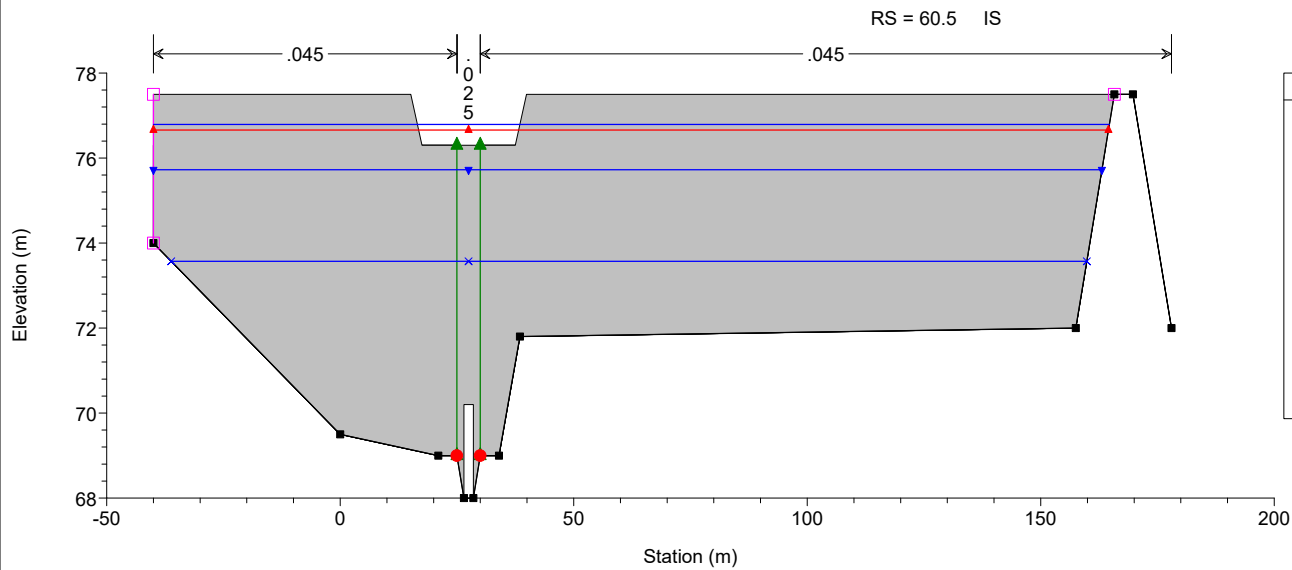
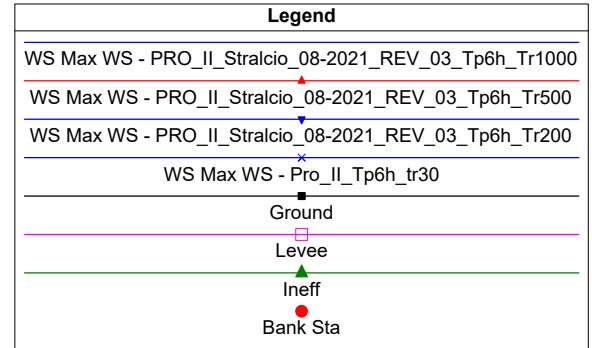
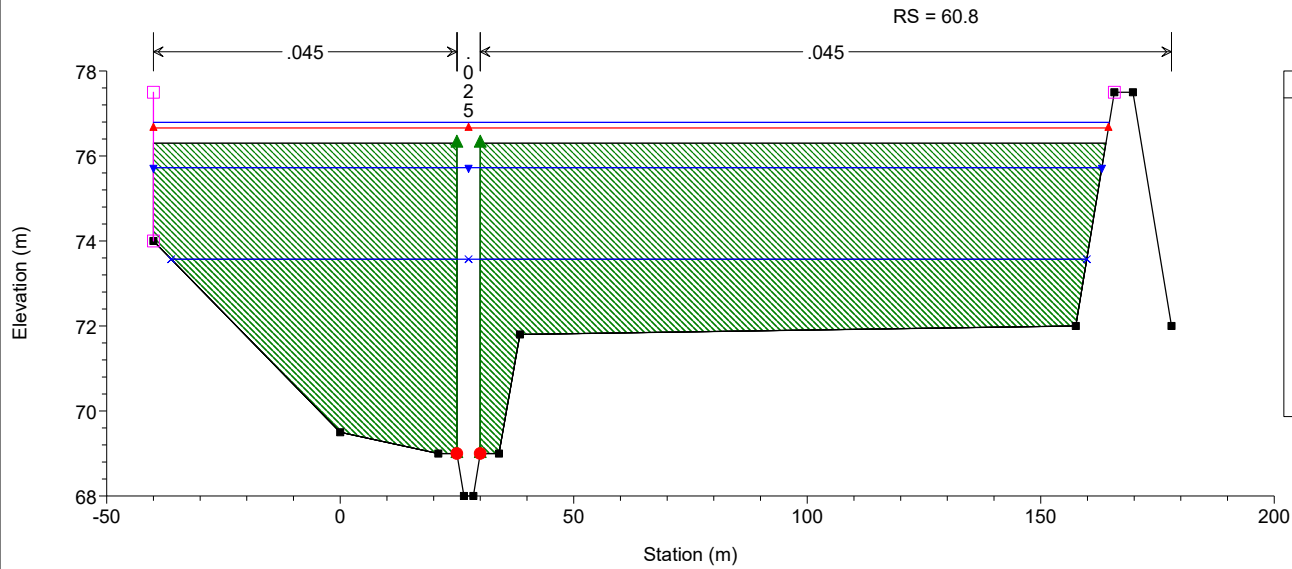


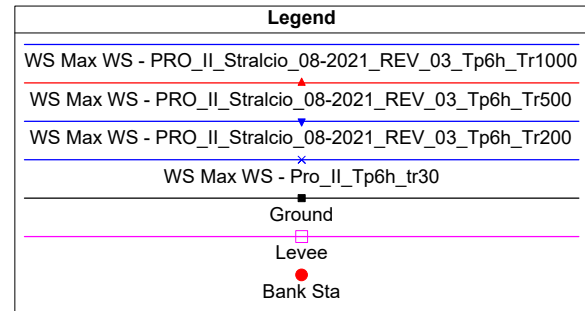
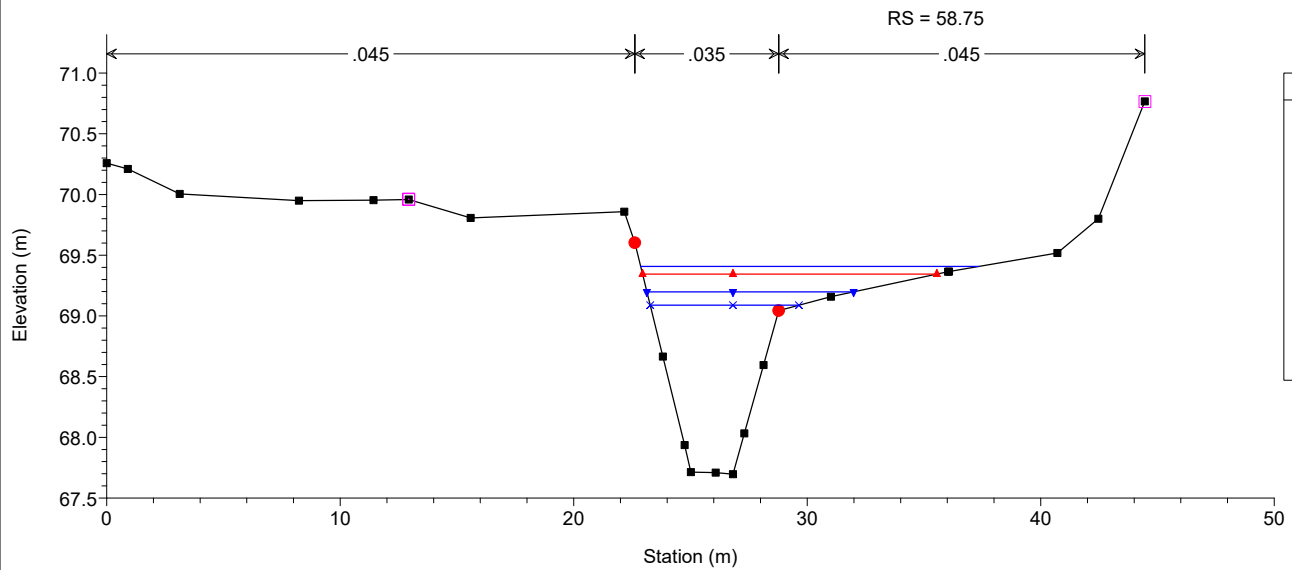
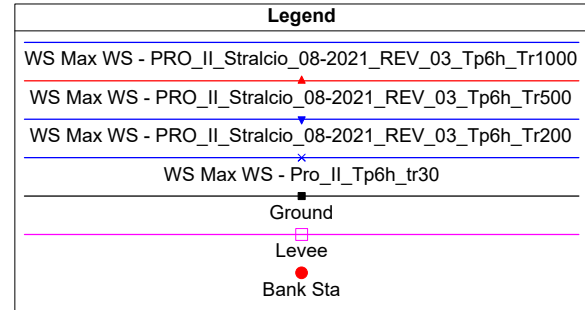
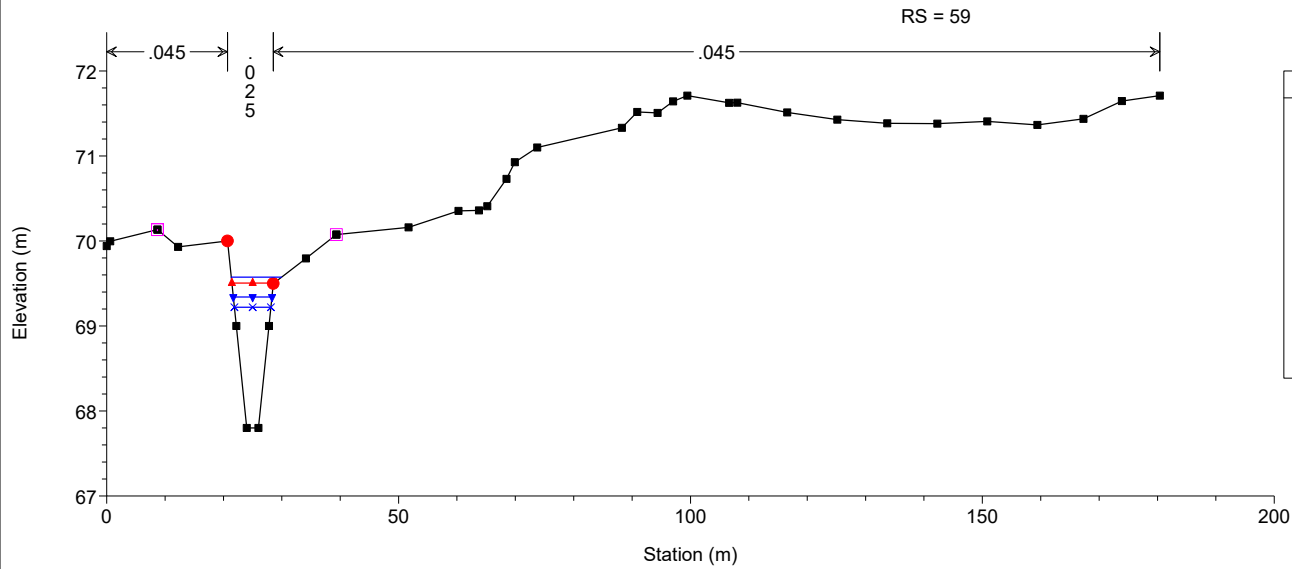
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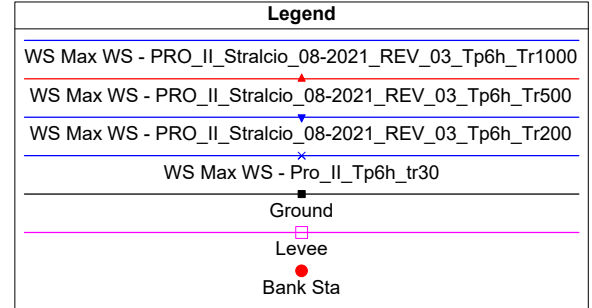
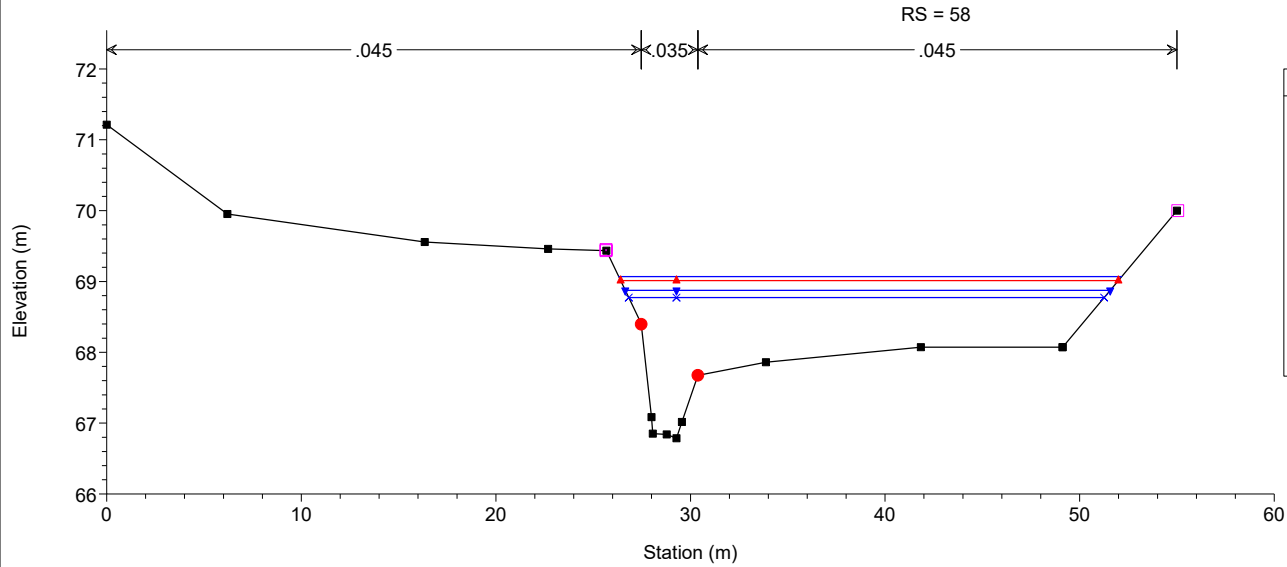
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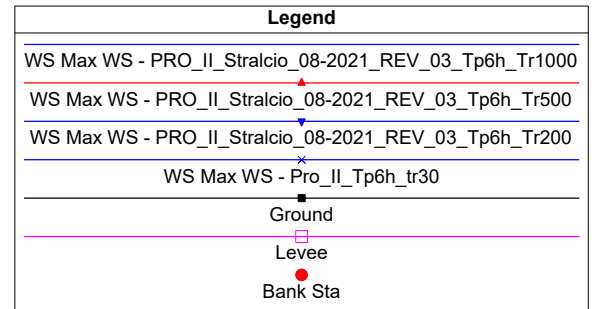
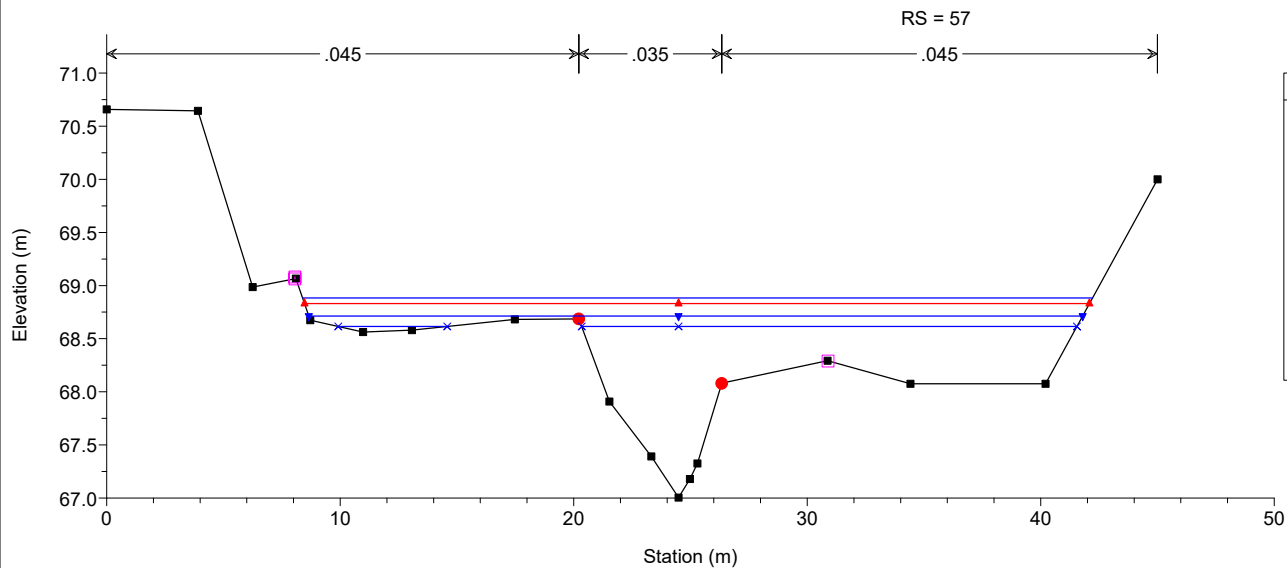


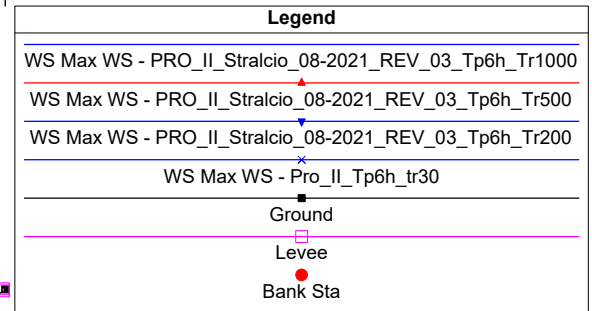
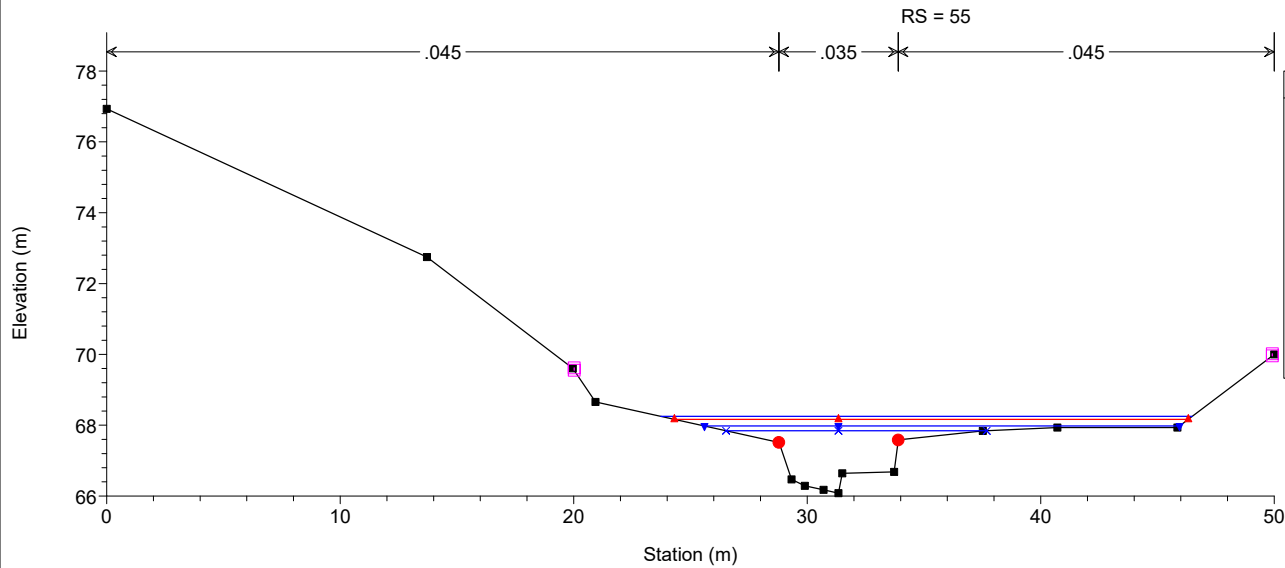
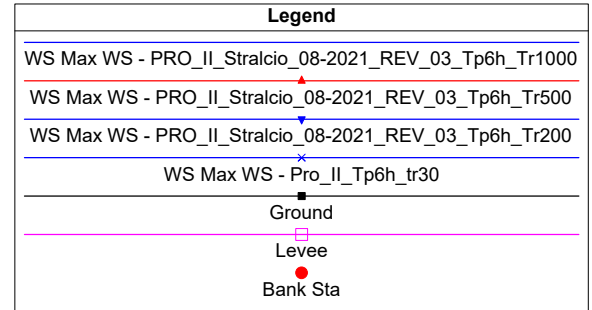
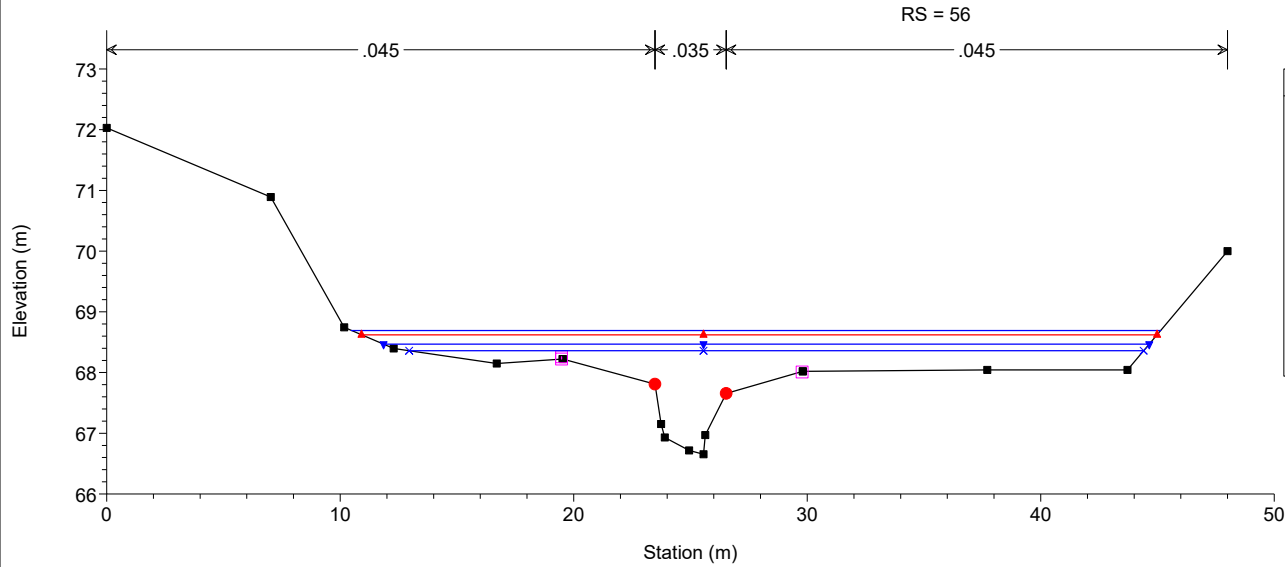


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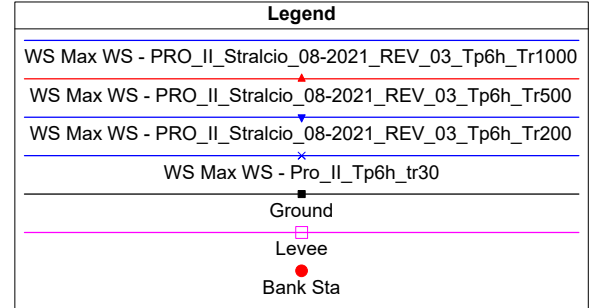
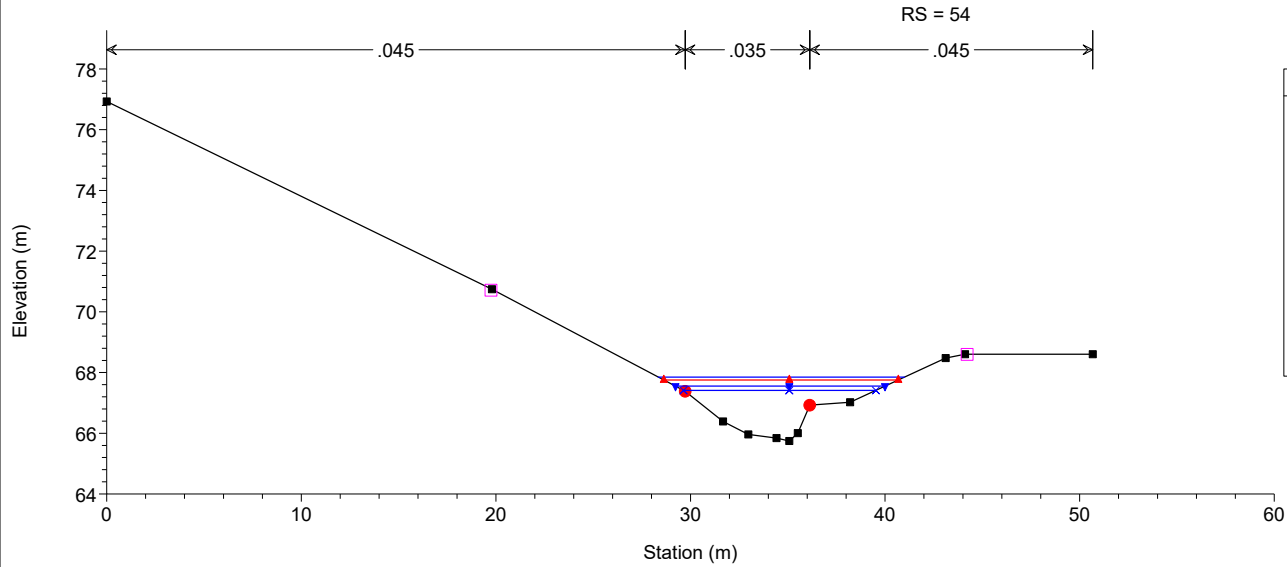
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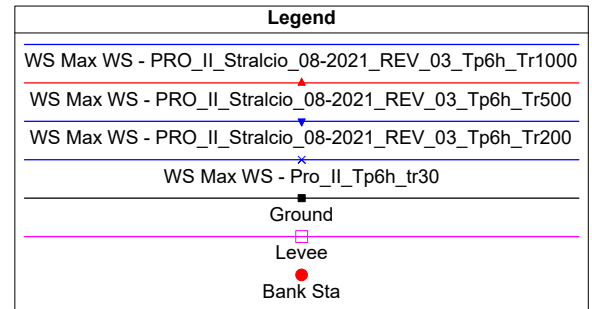
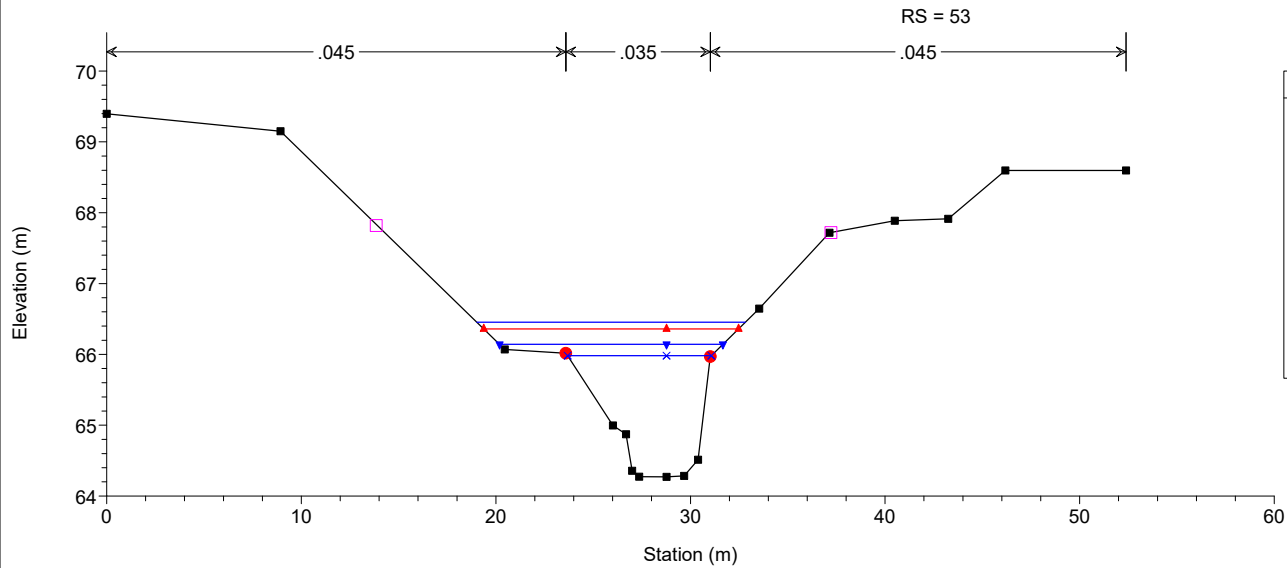


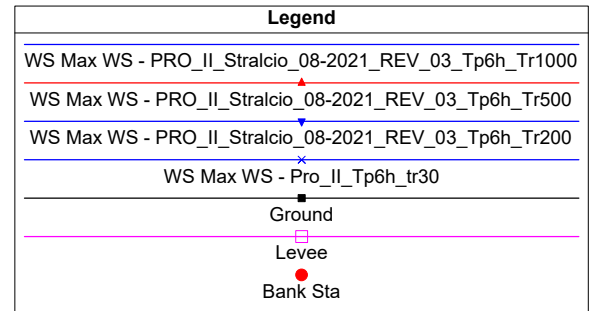
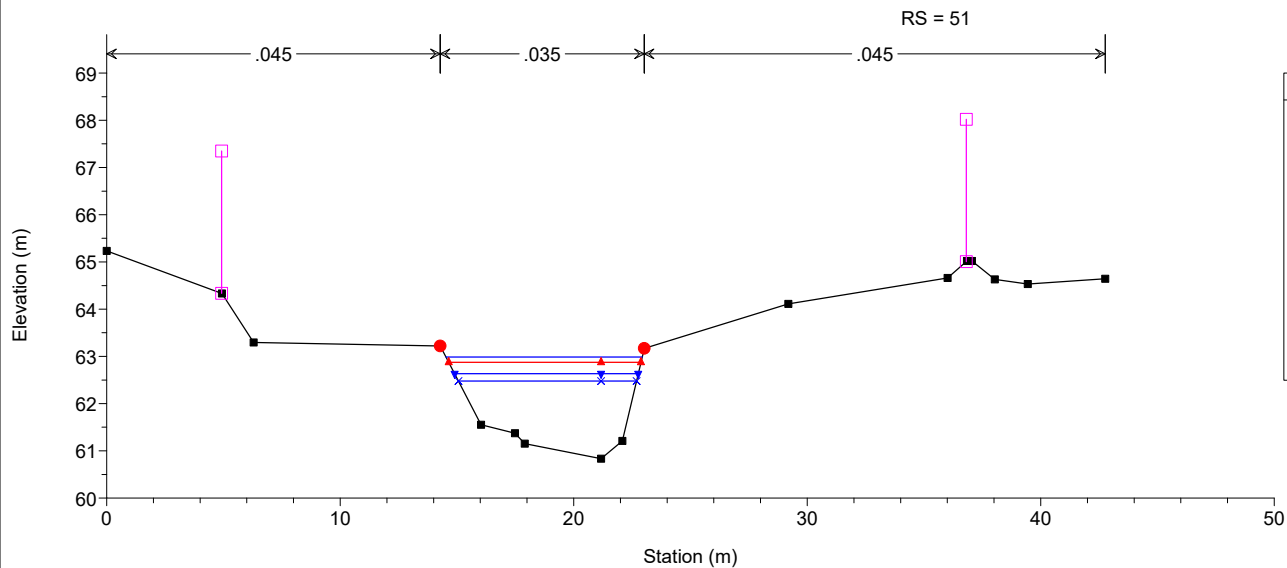
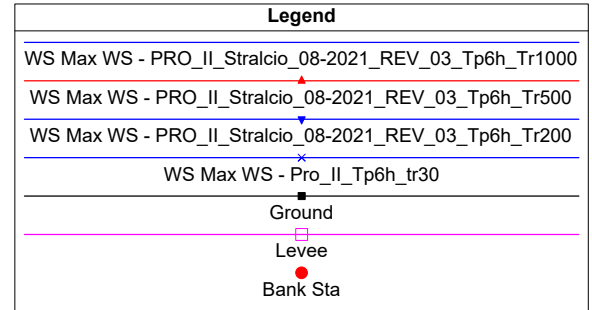
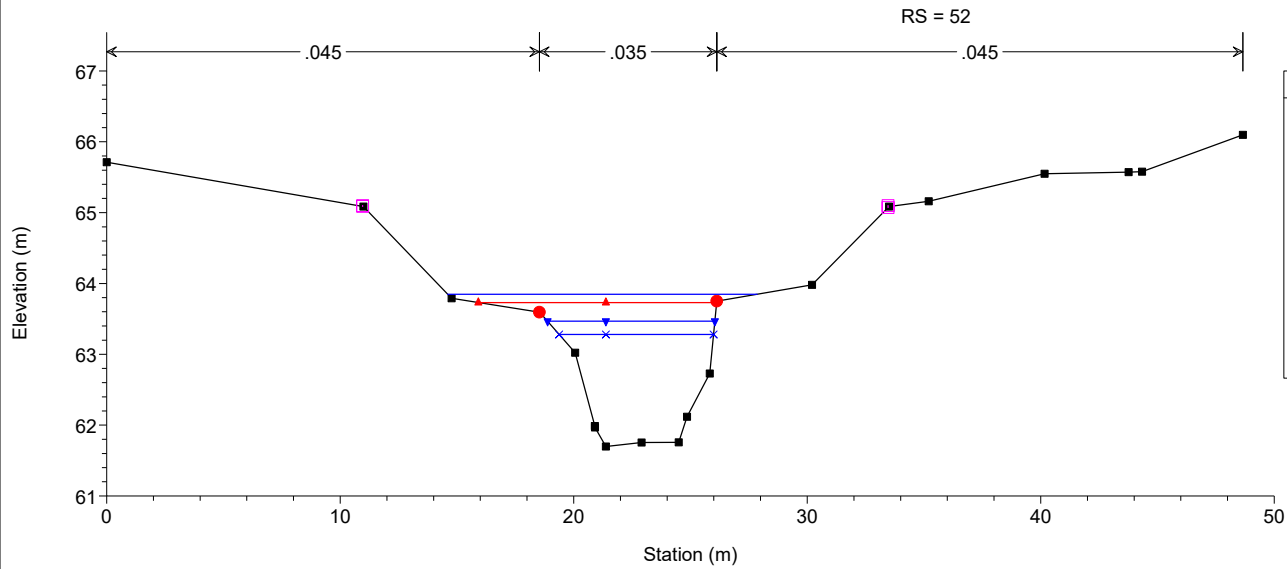


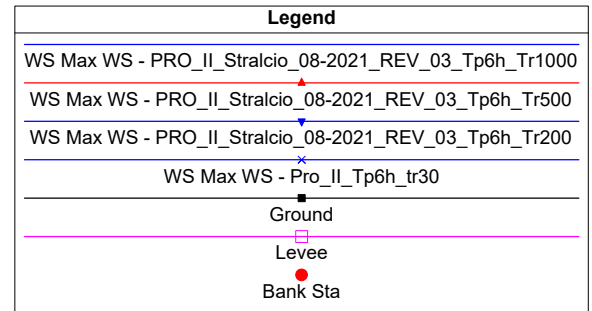
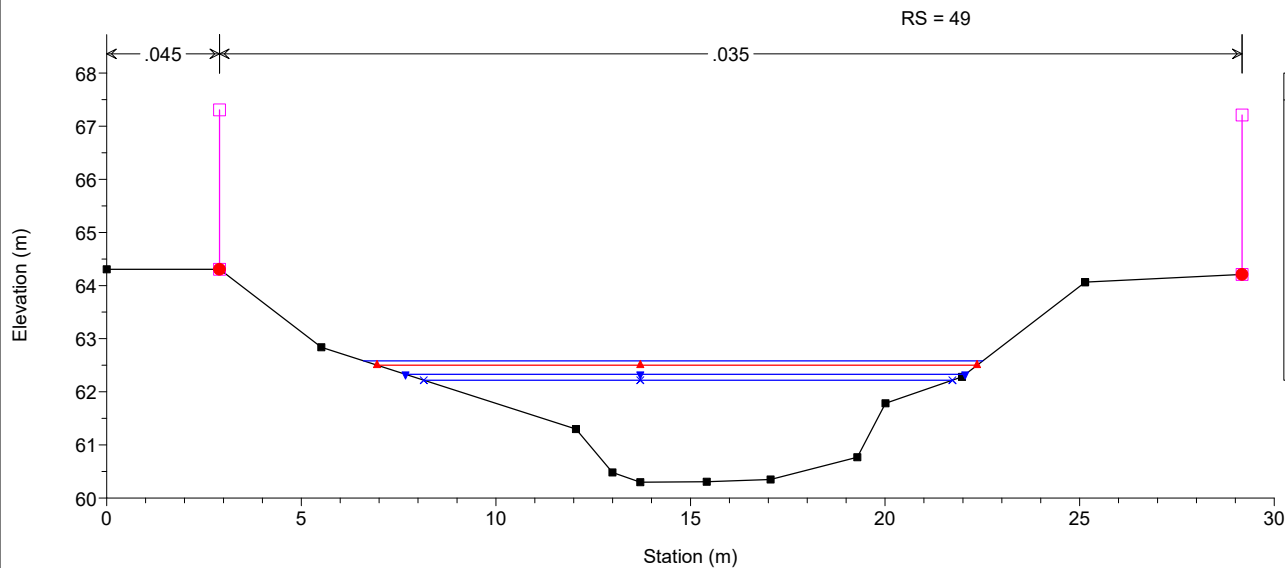
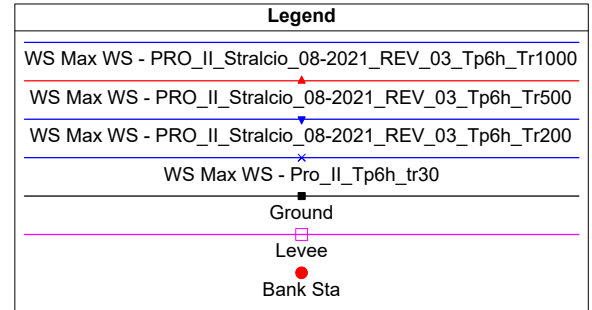
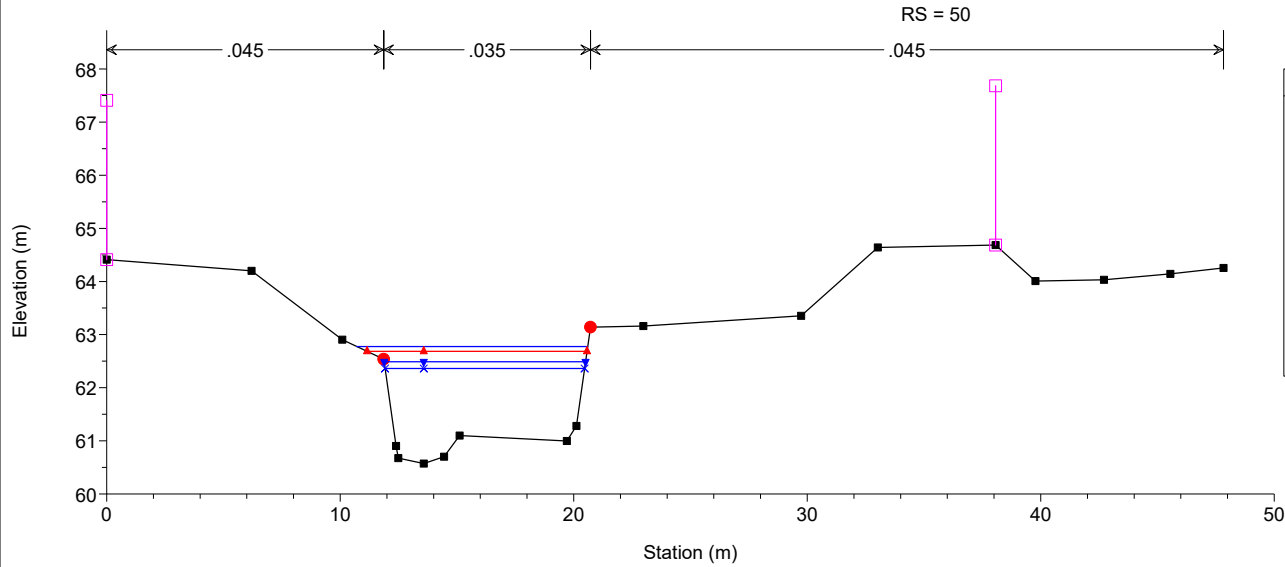
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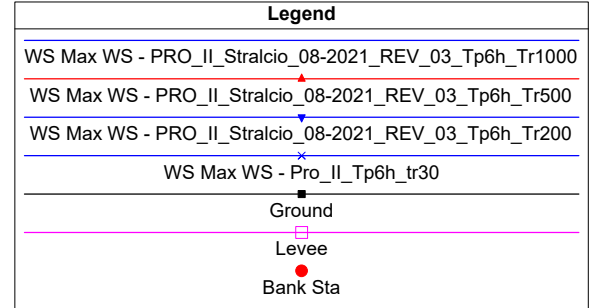
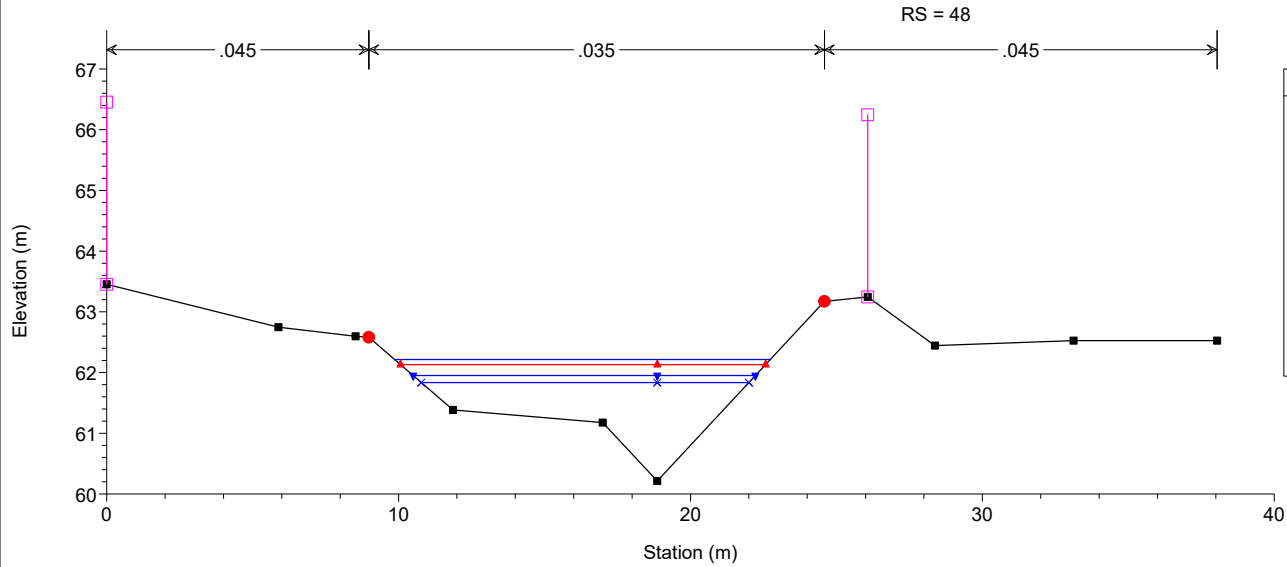
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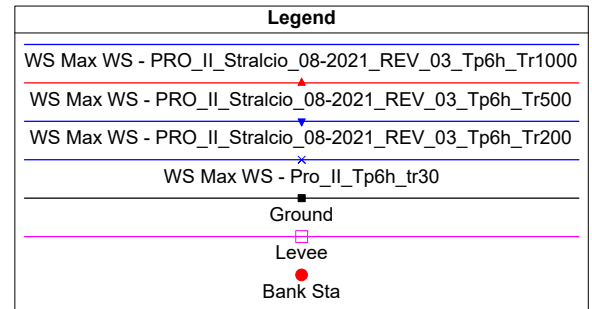
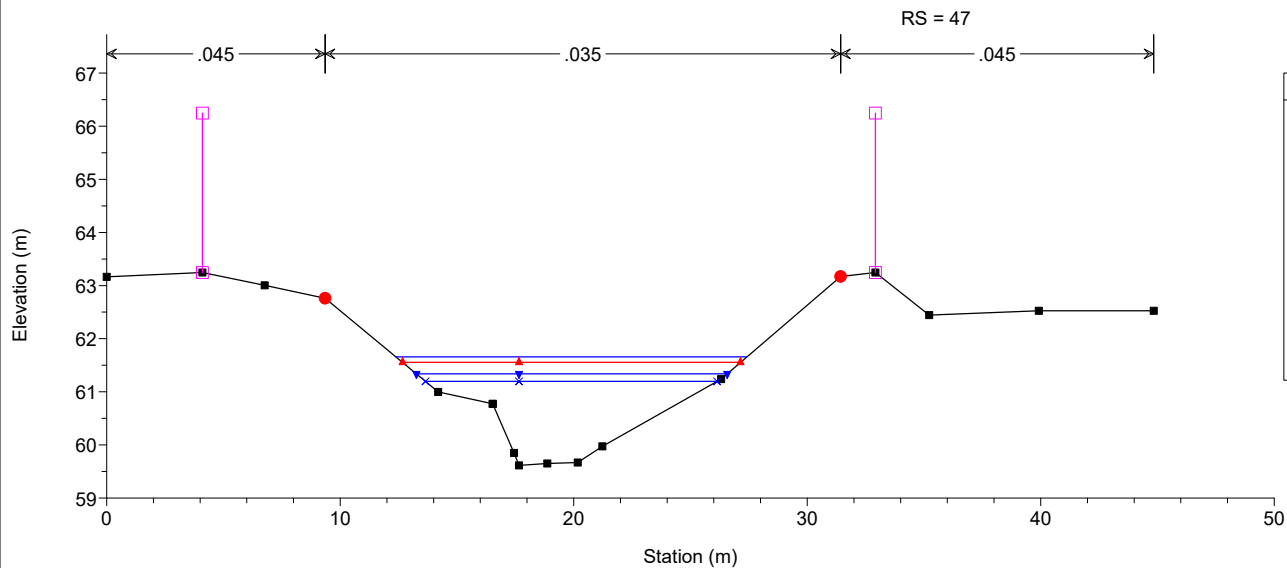




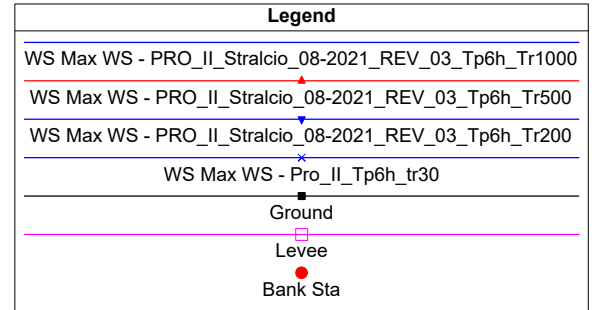
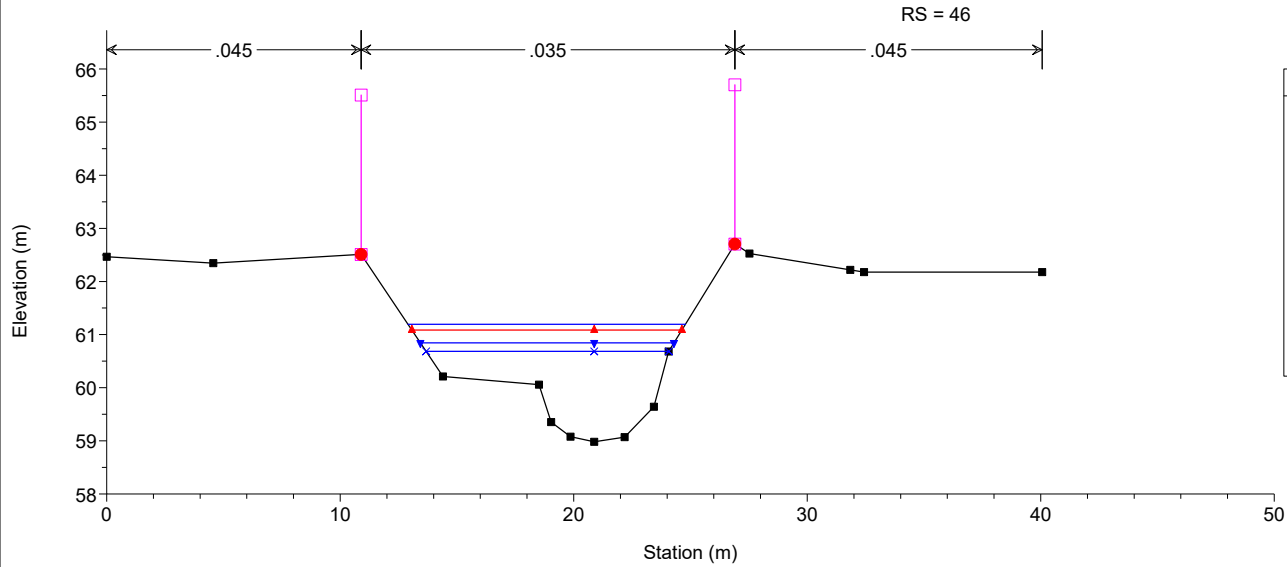
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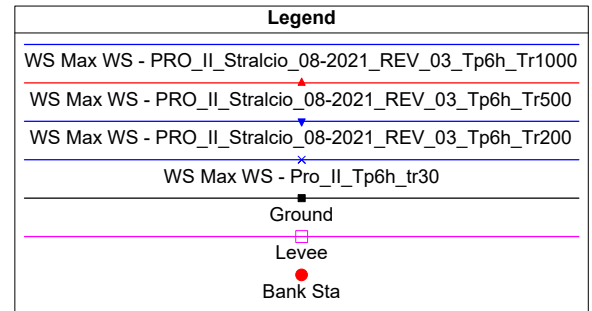
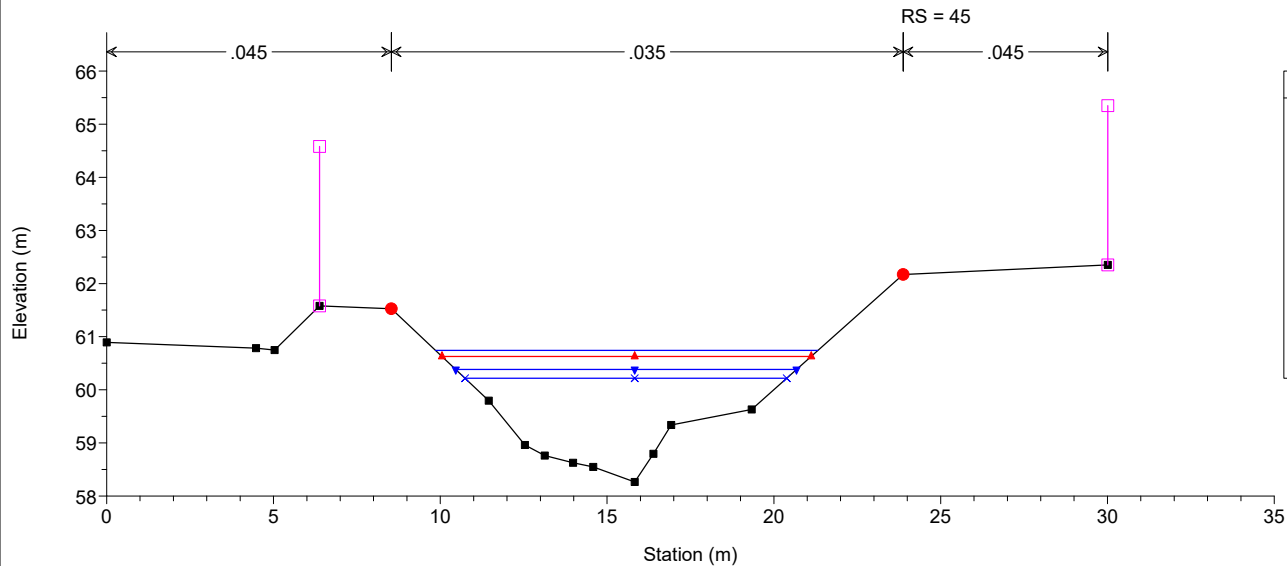
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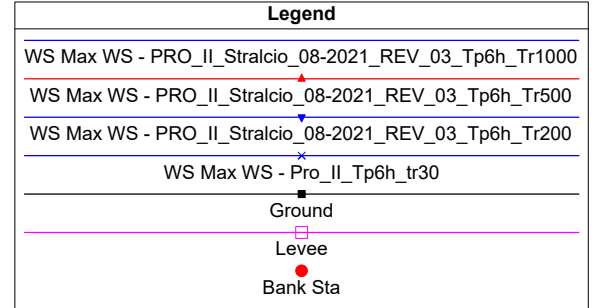
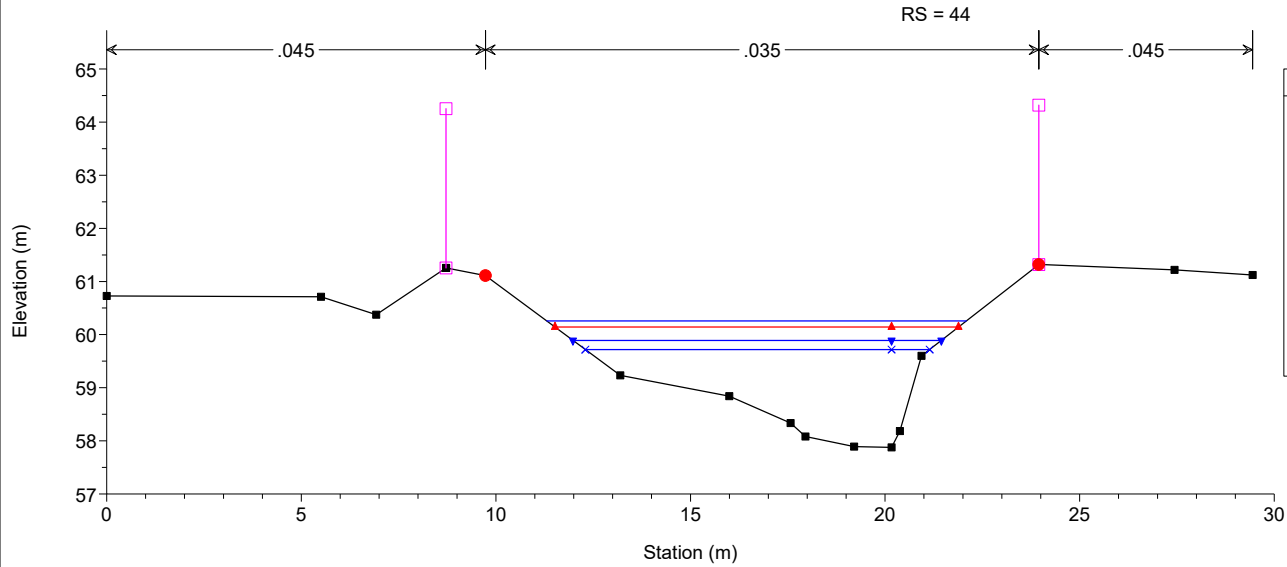
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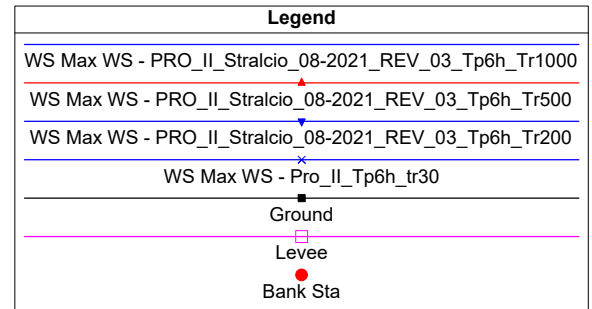
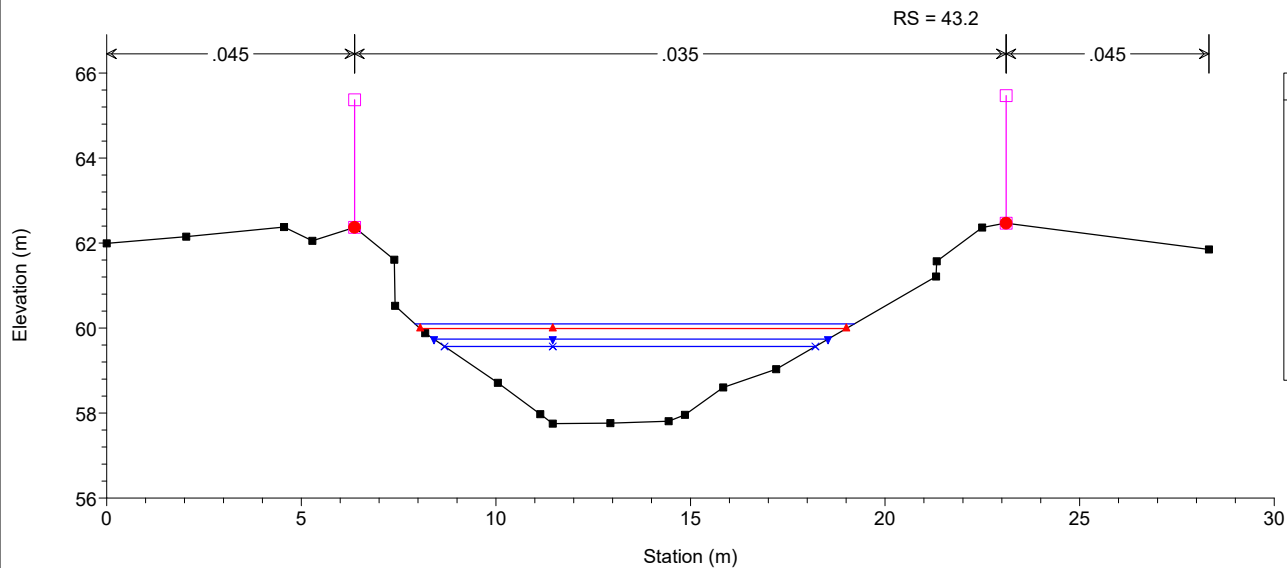
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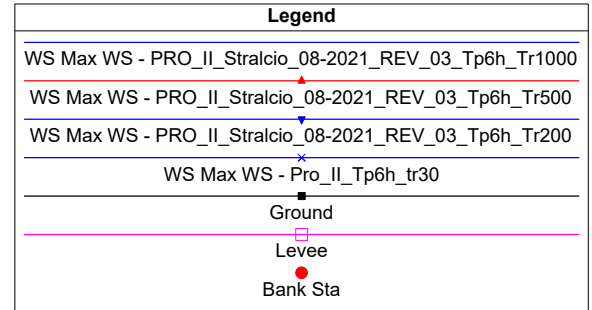
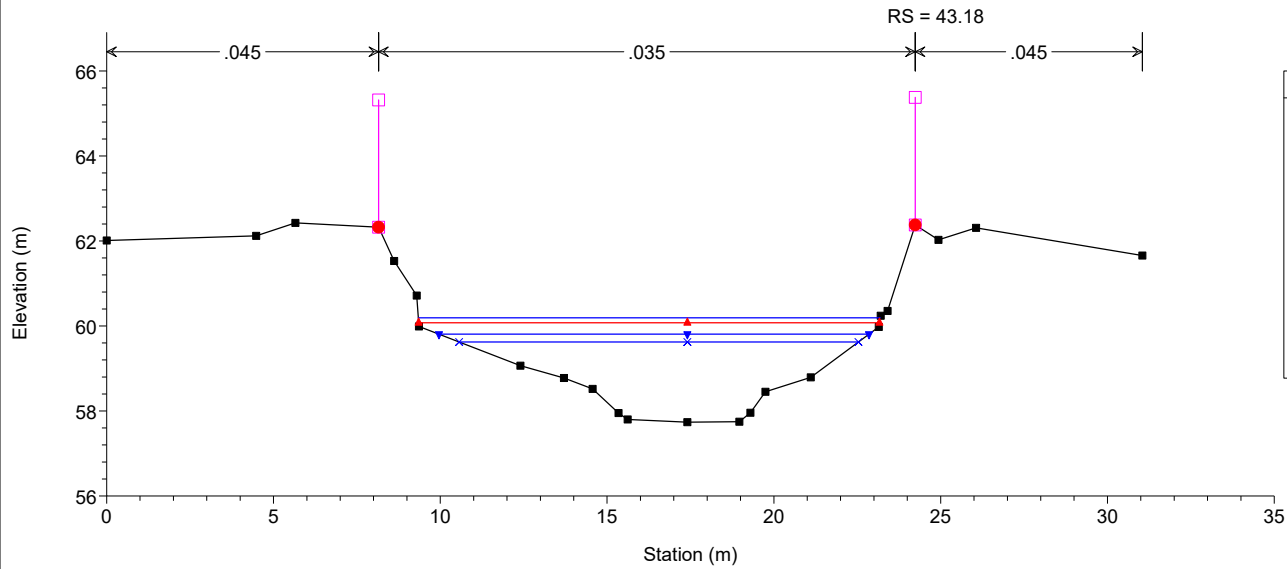
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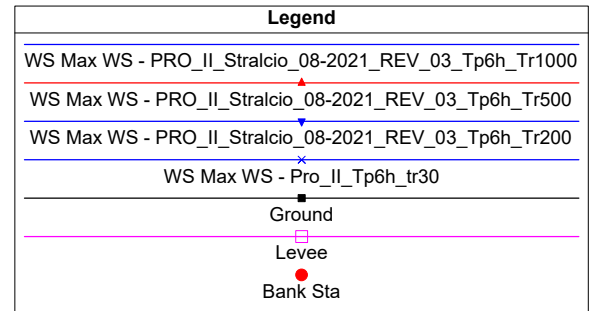
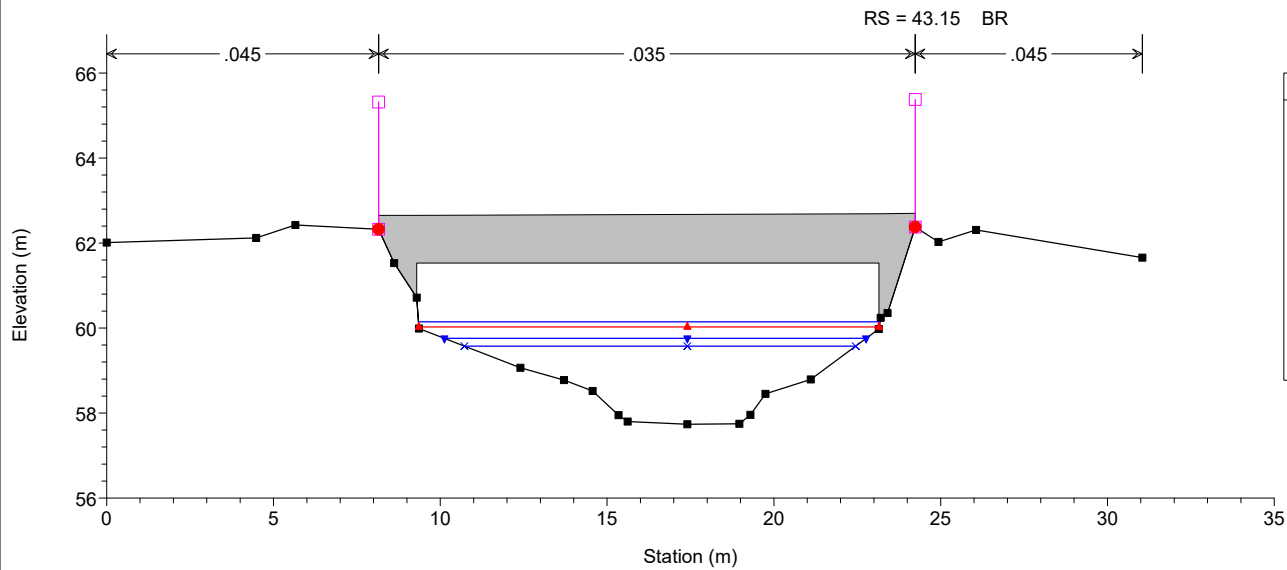
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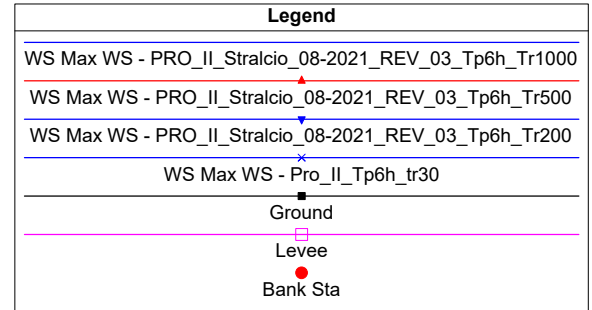
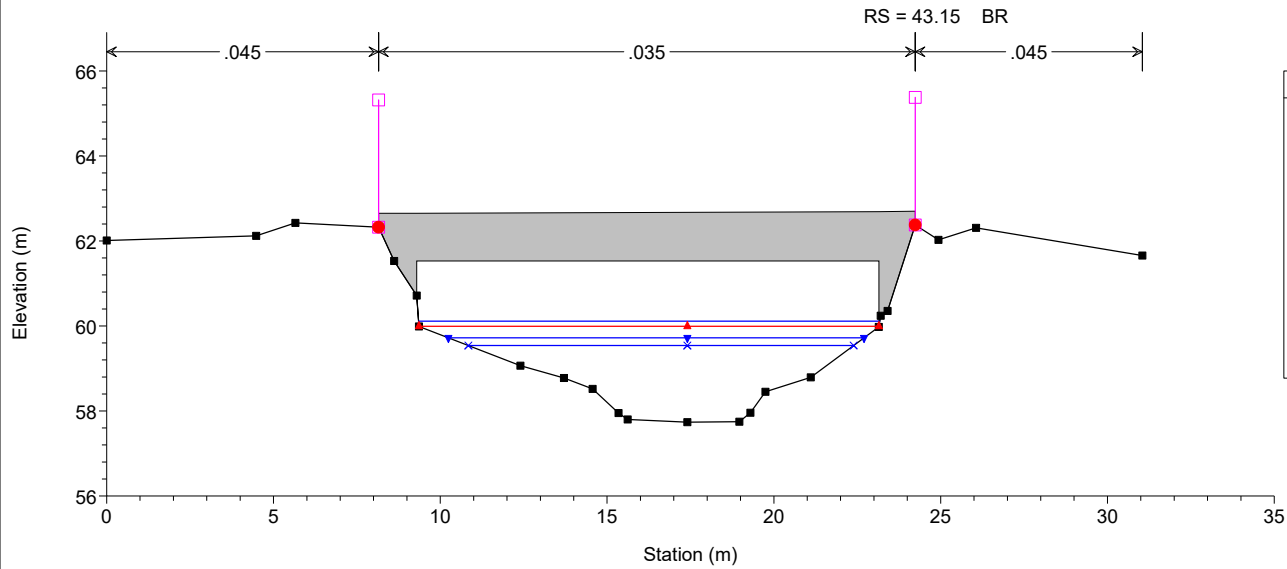
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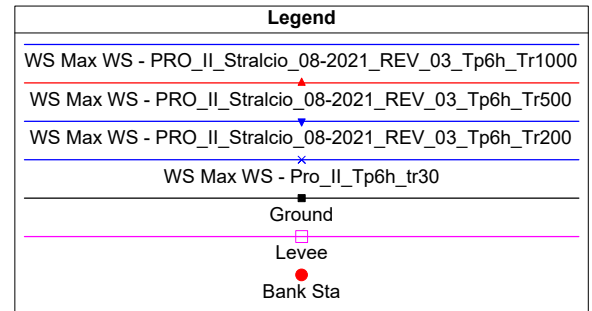
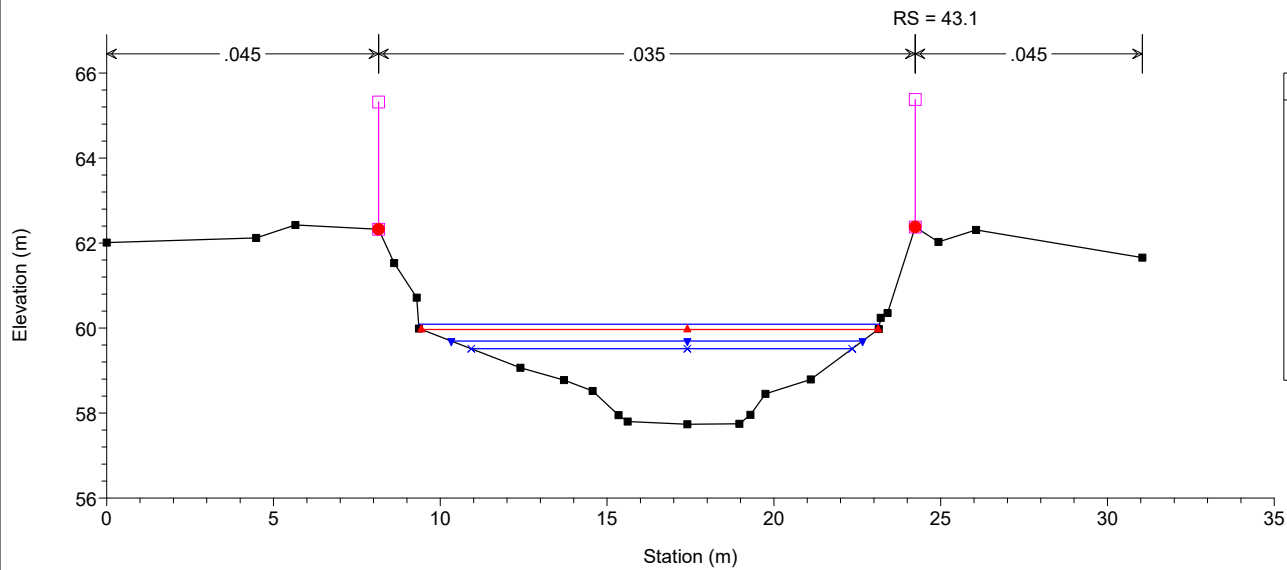
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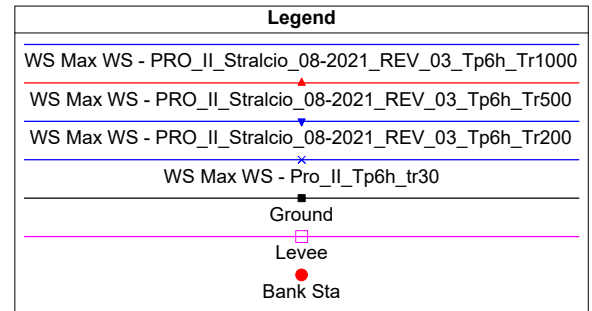
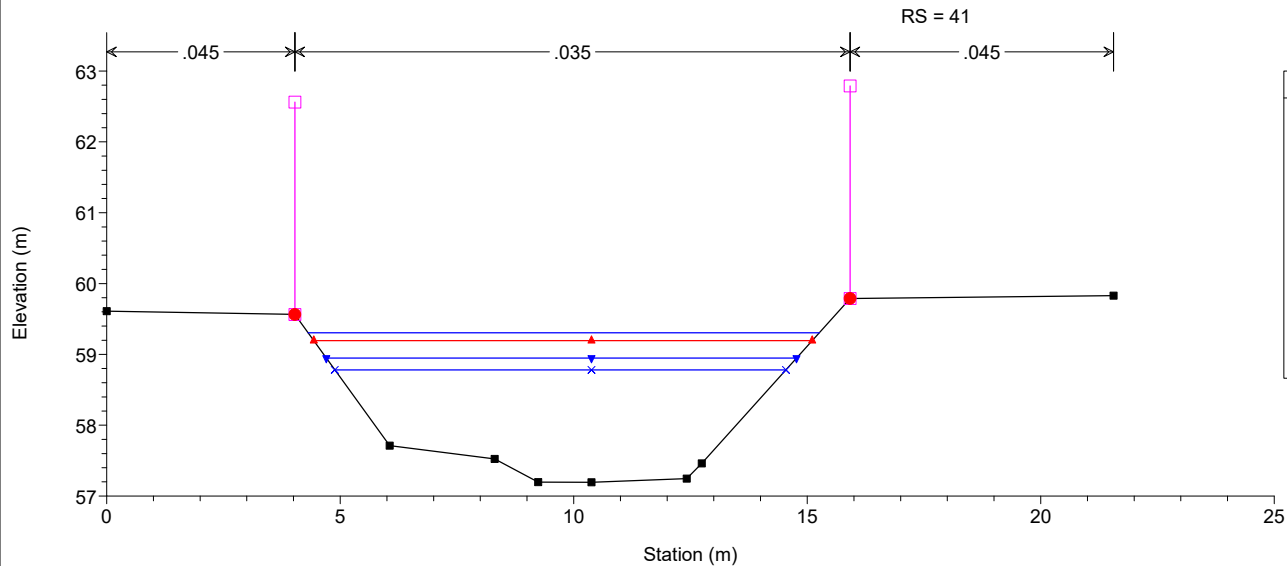
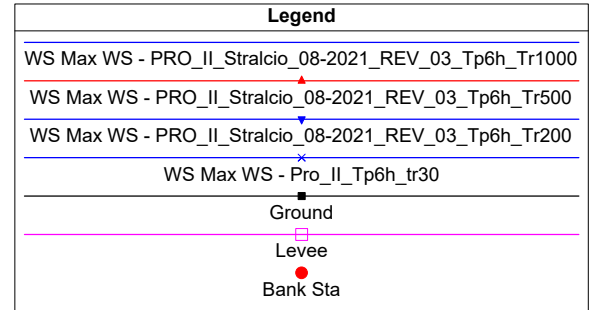
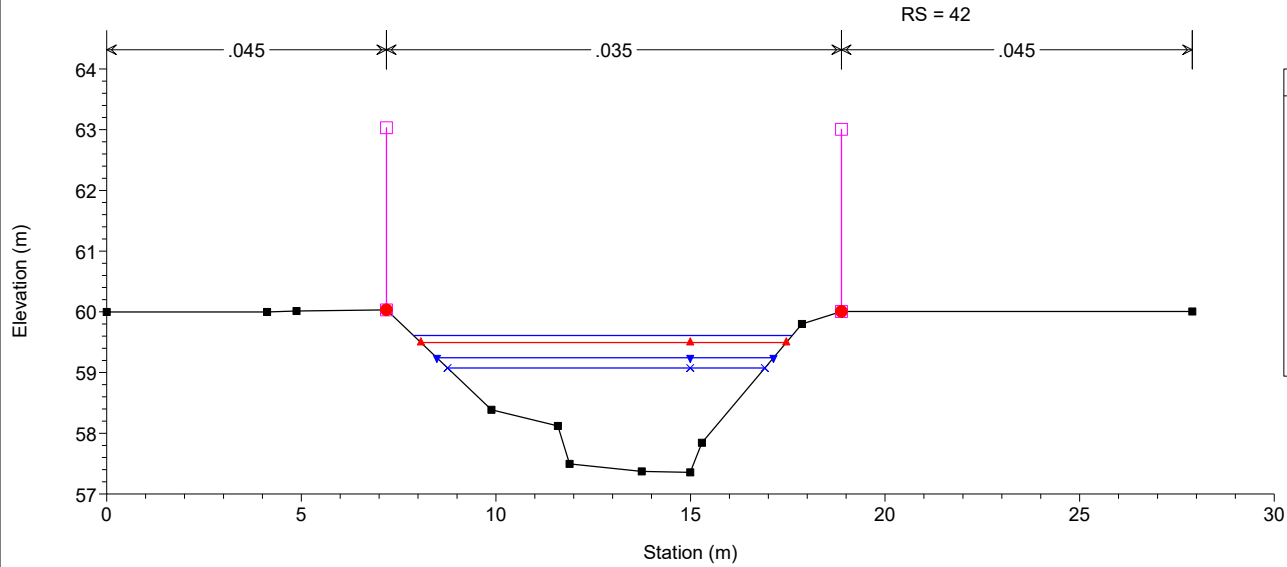
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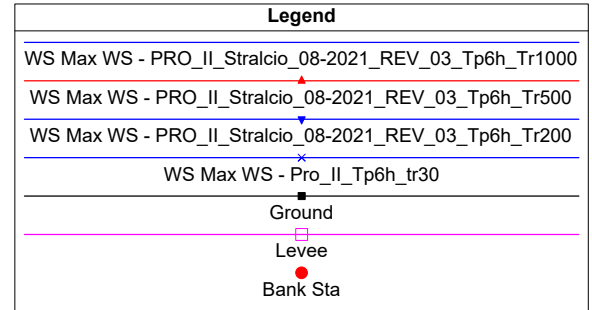
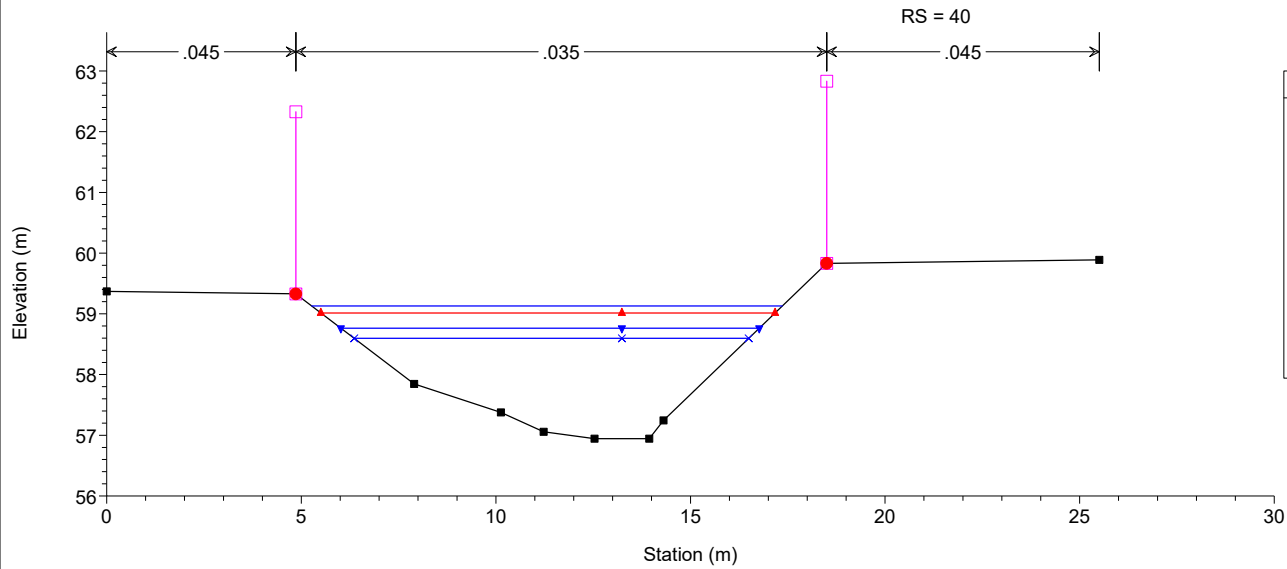
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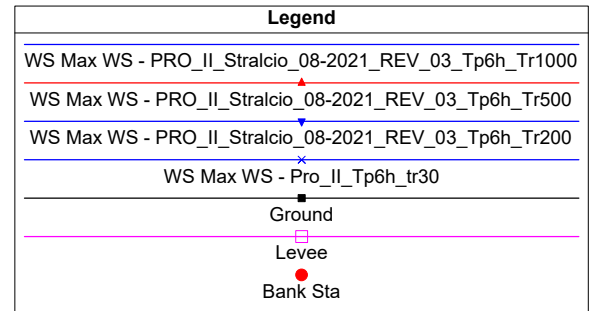
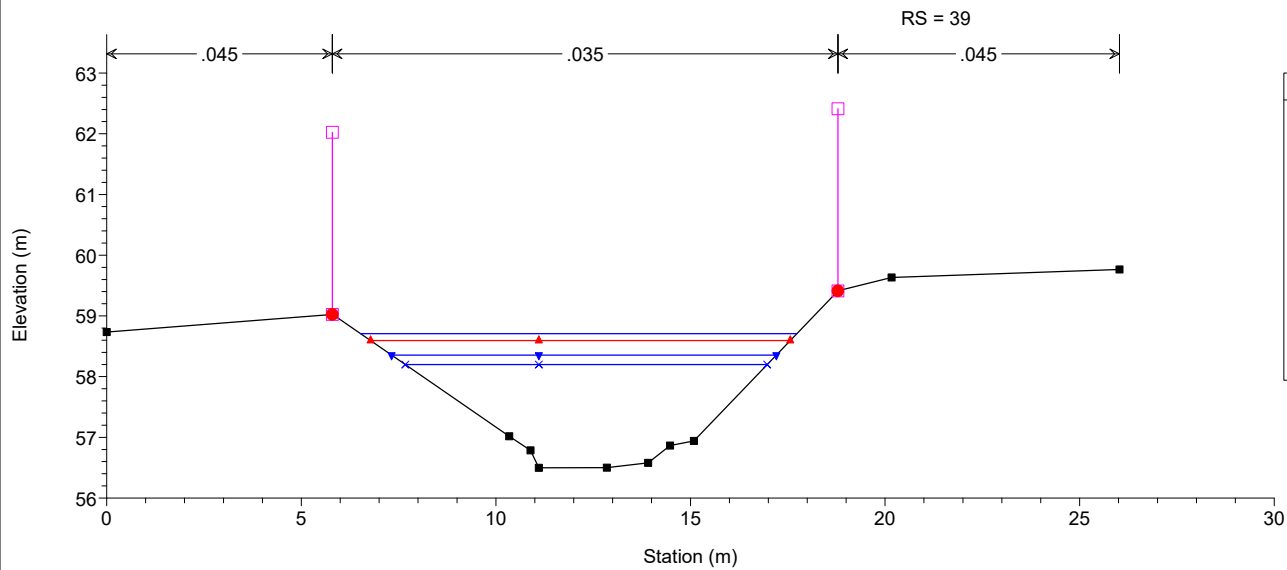




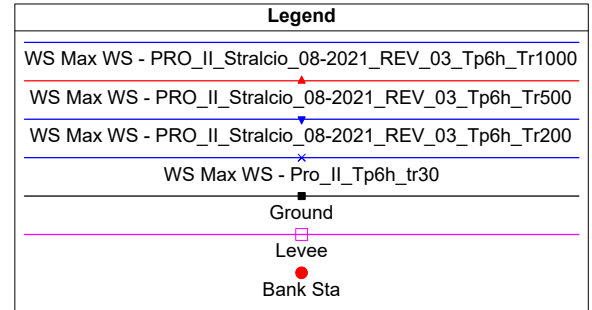
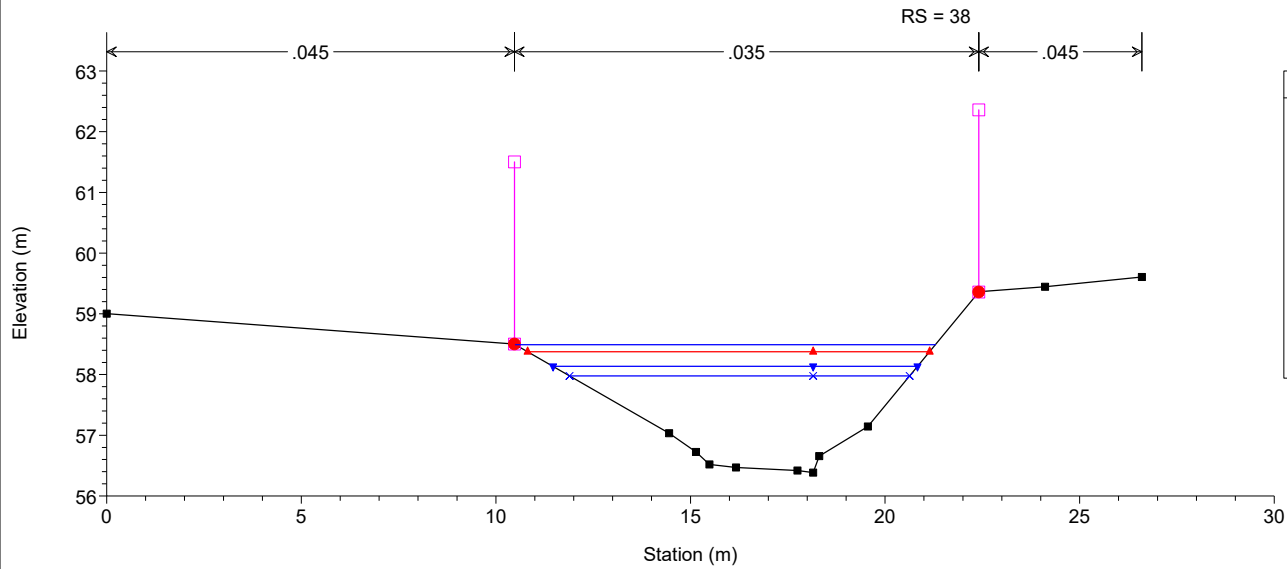
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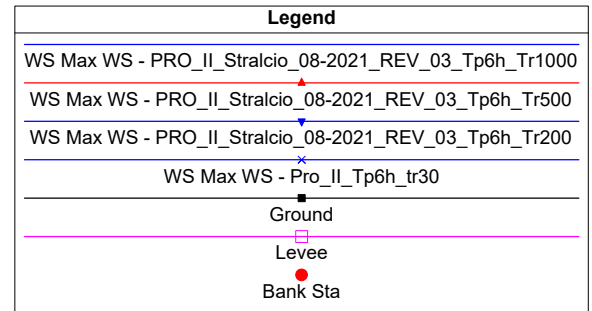
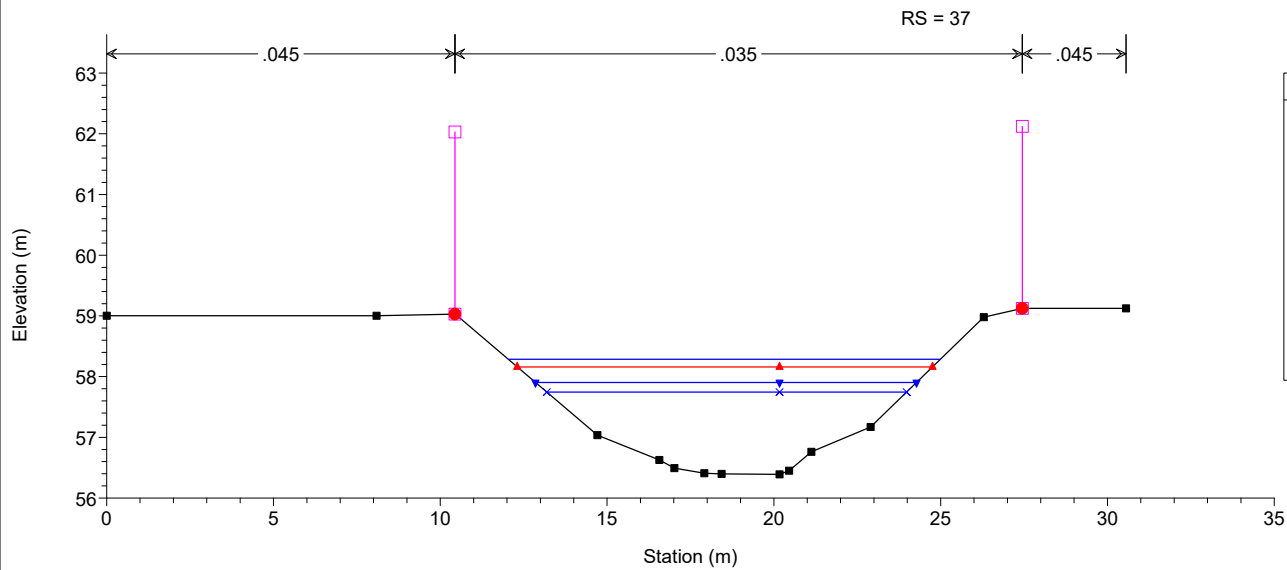
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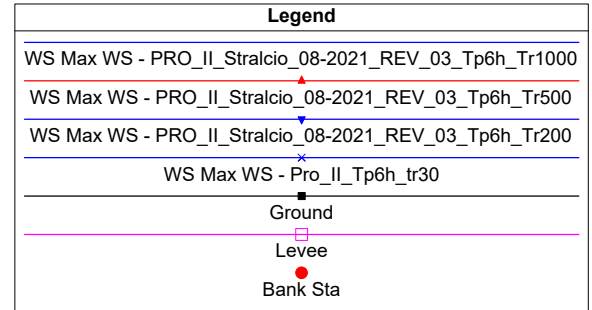
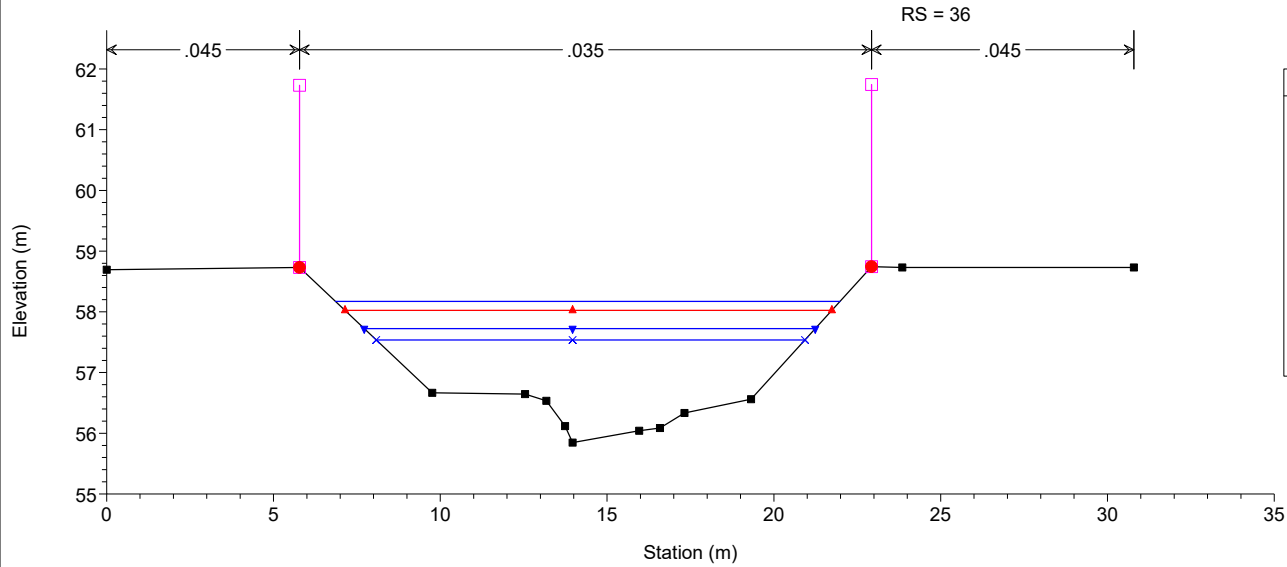
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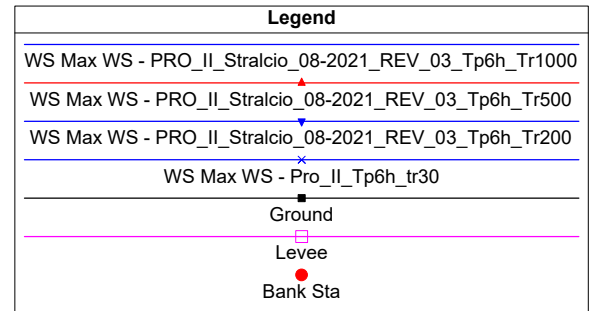
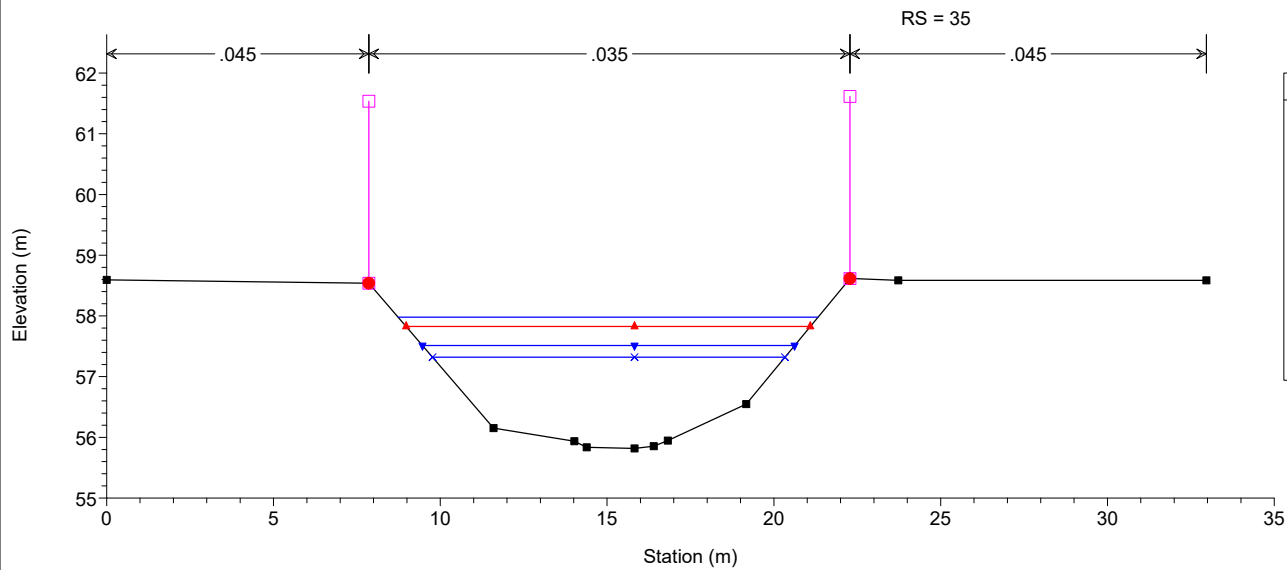
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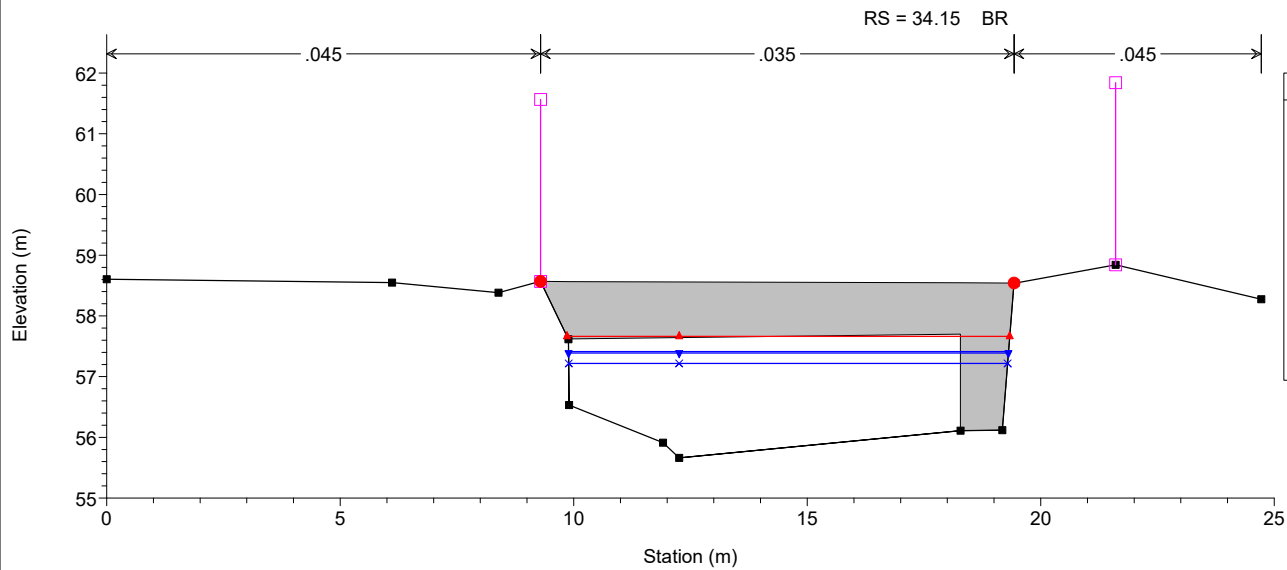
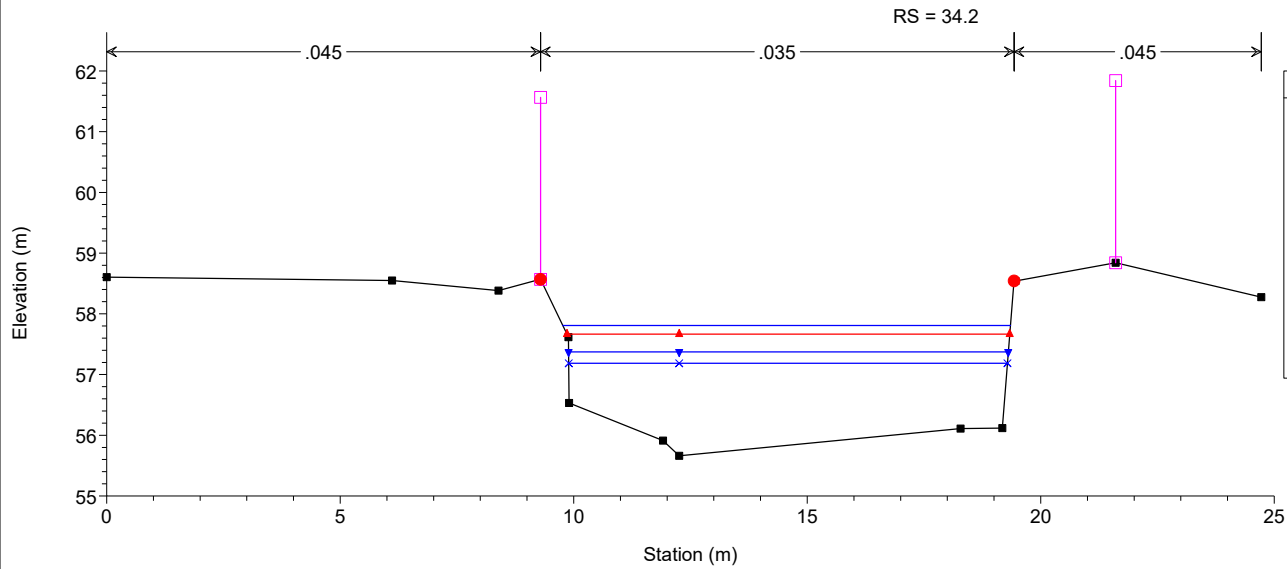


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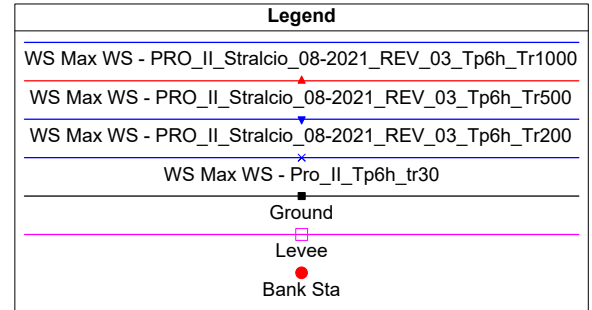
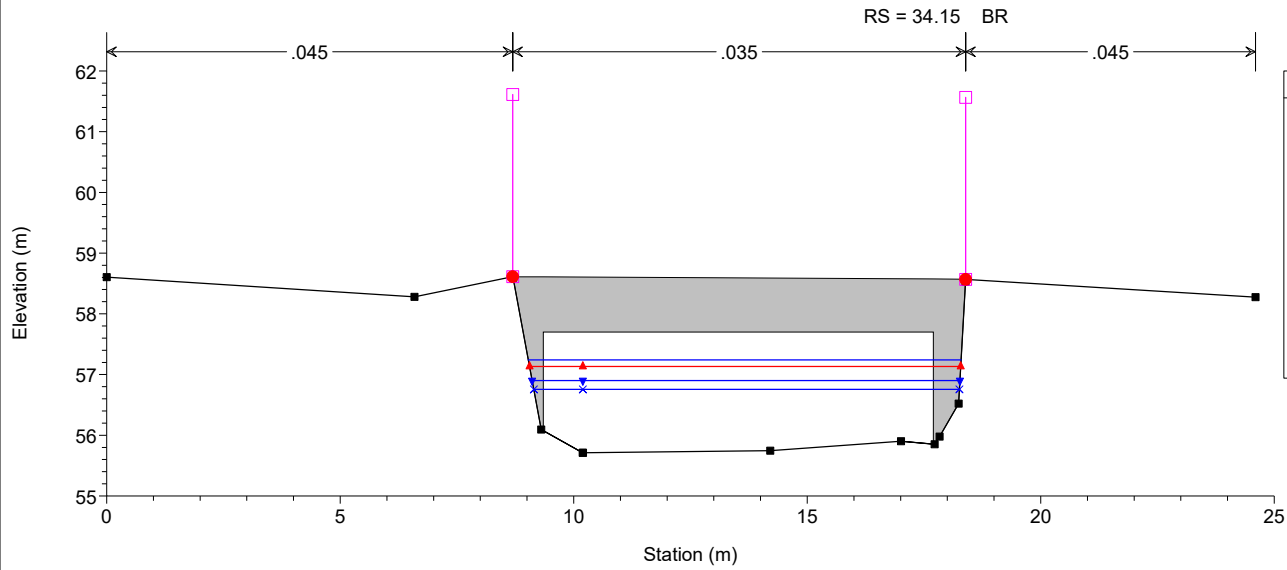


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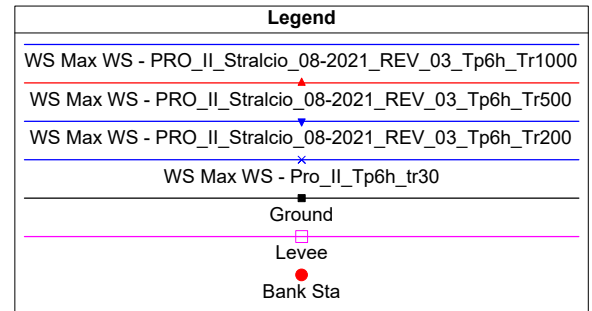
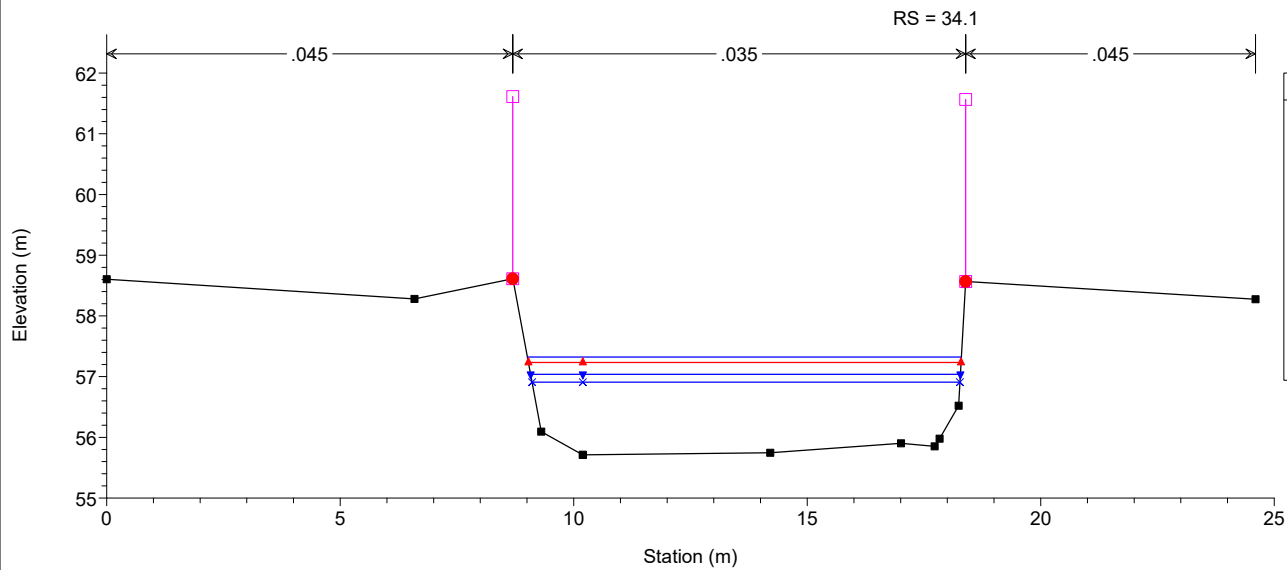




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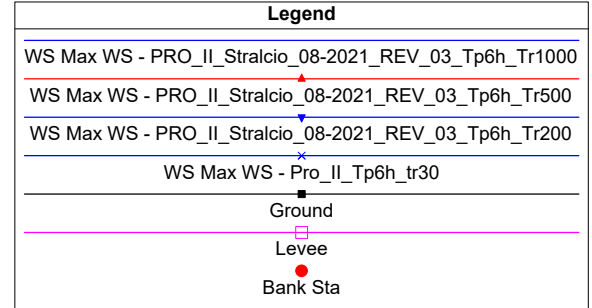
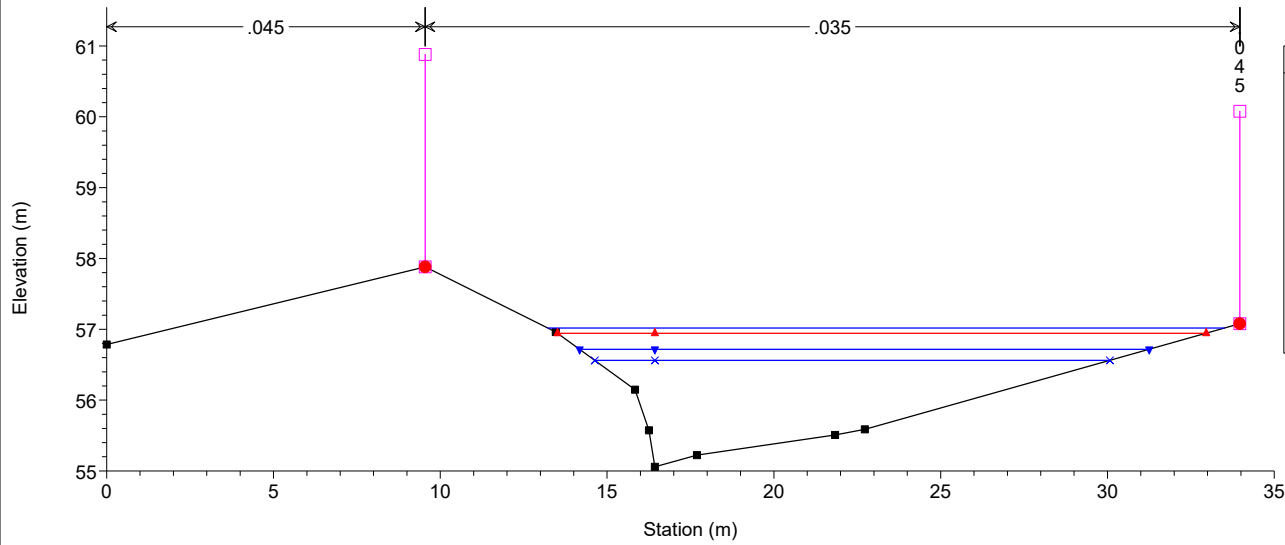


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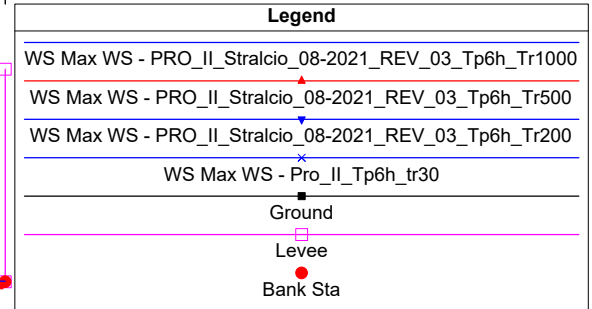
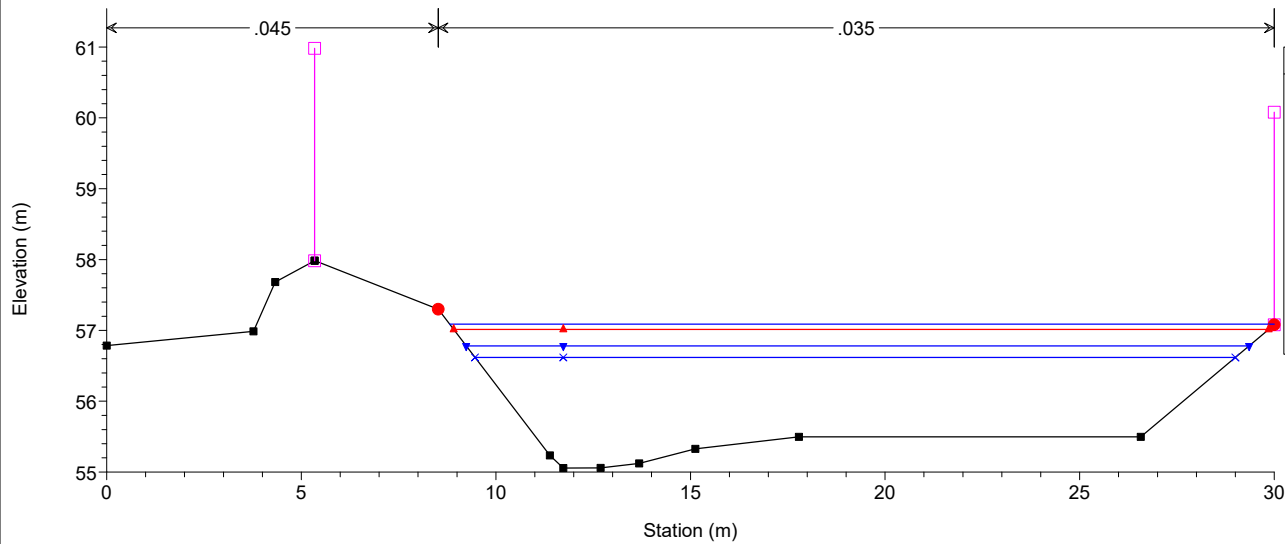
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RS = 33

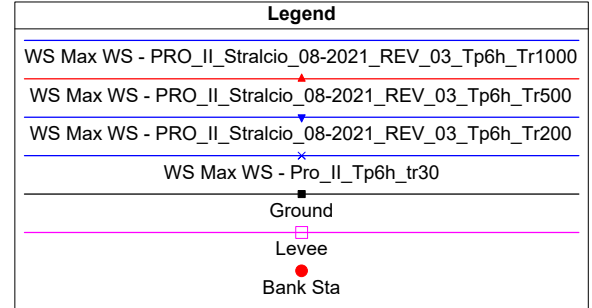
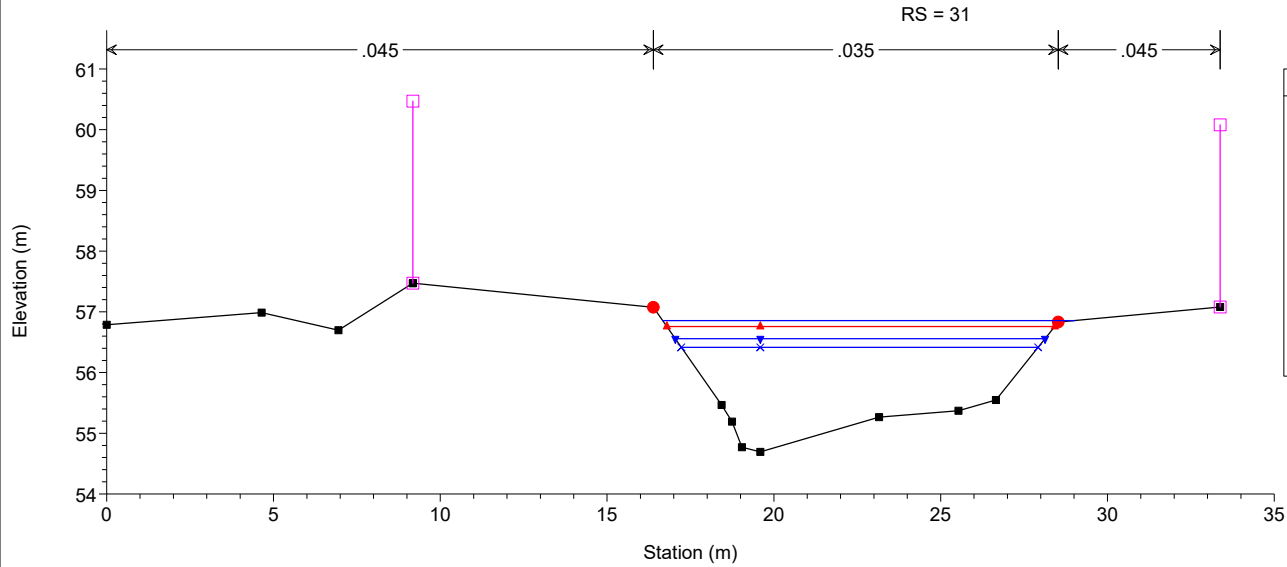


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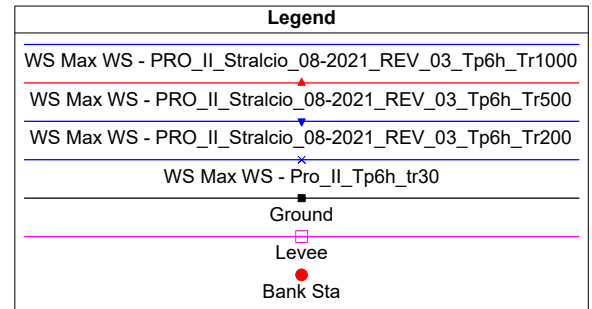
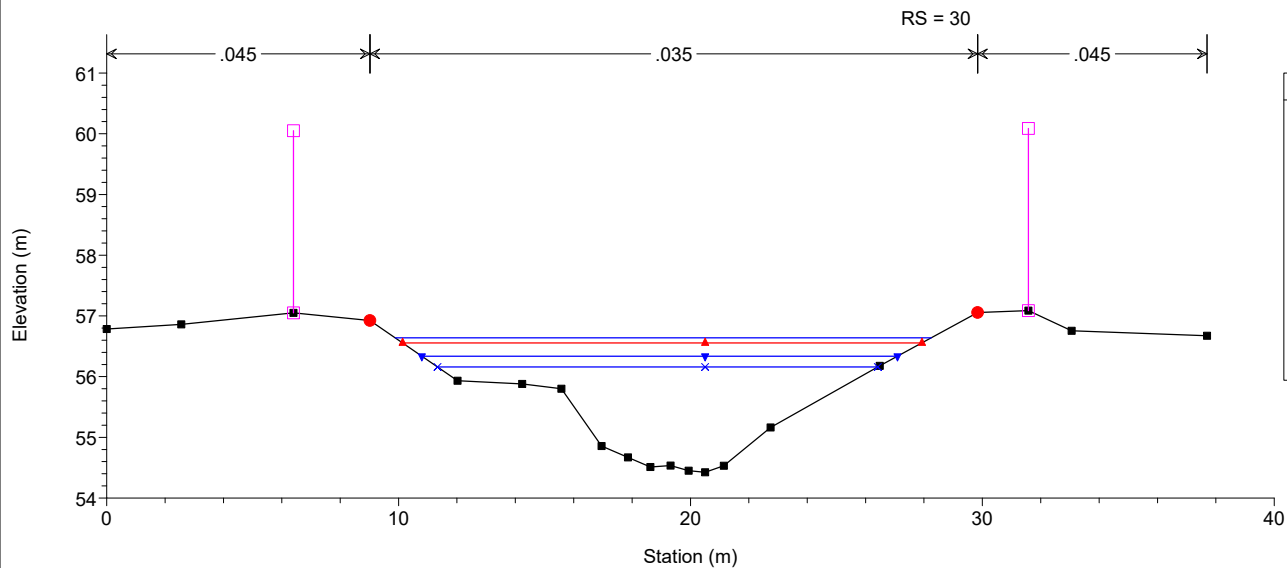
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RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

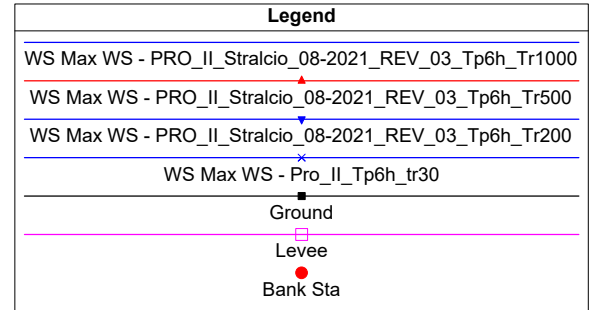
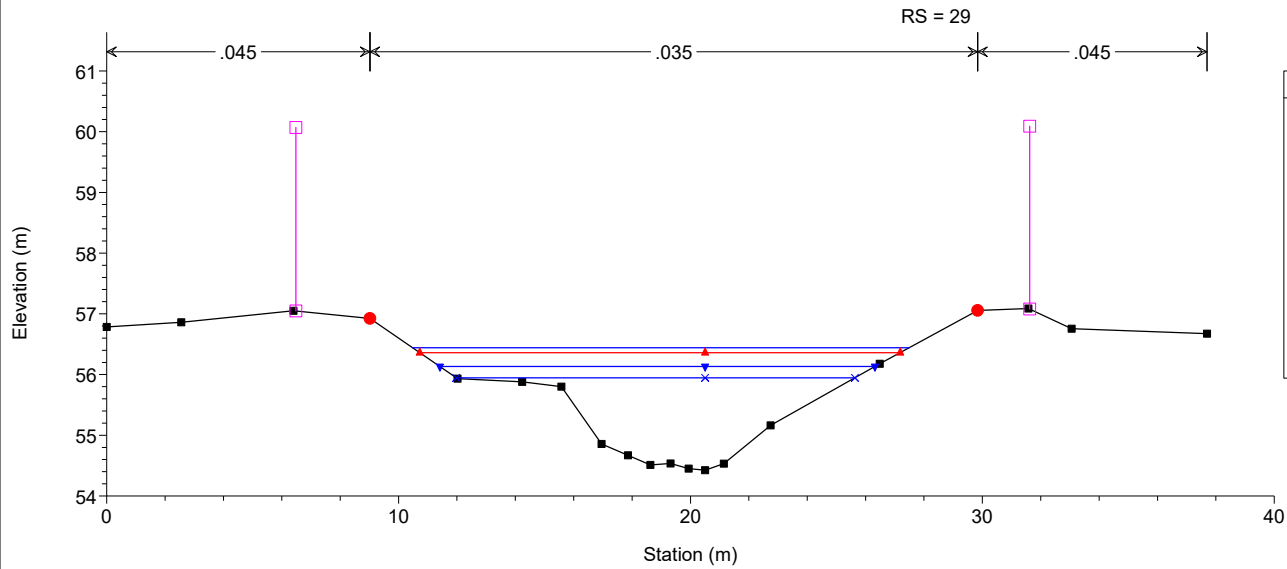


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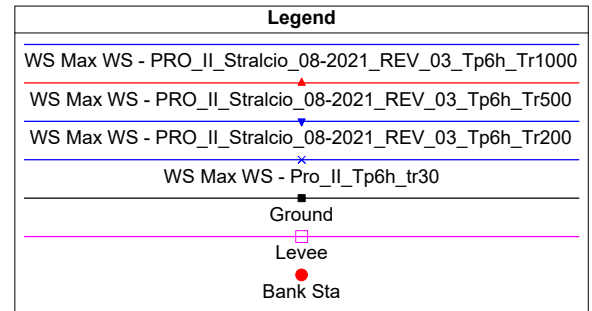
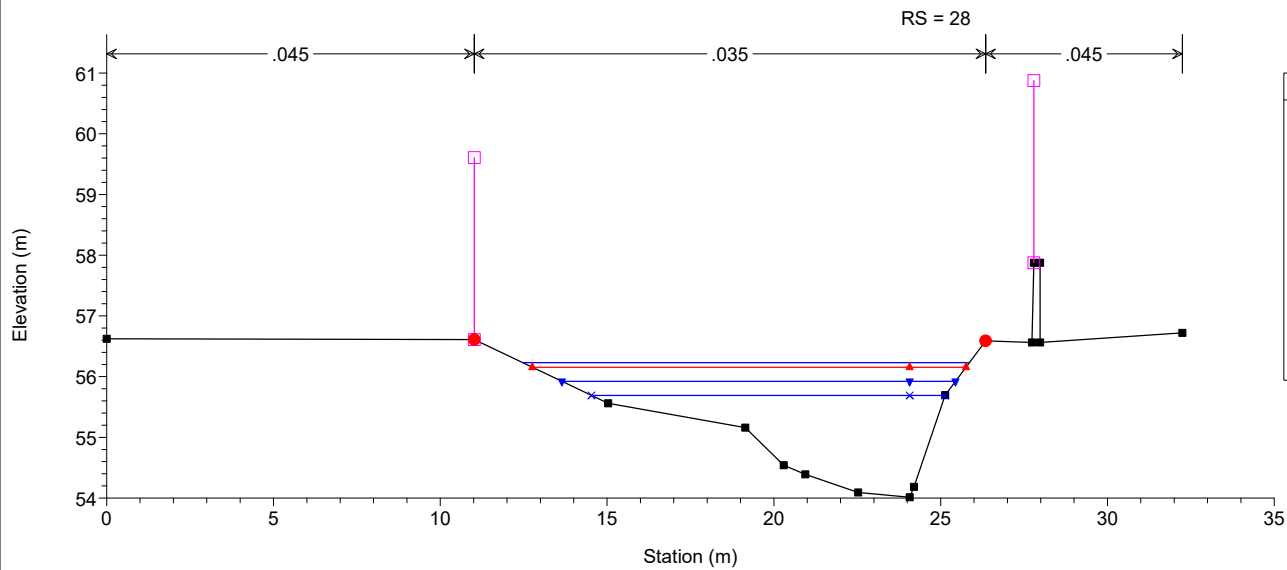




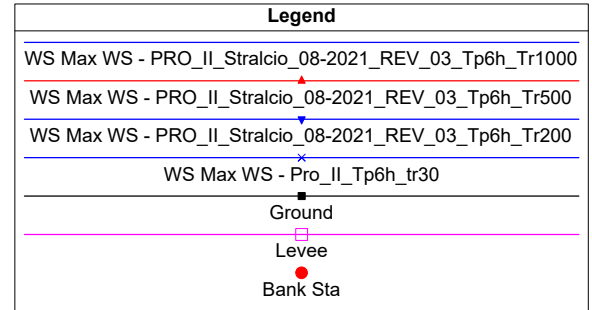
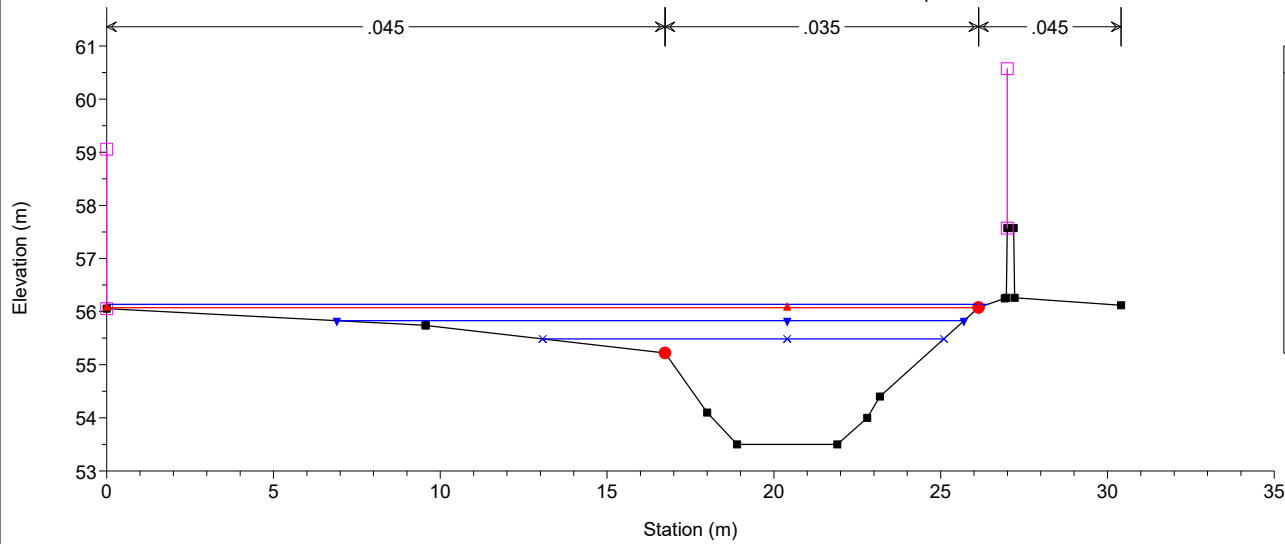
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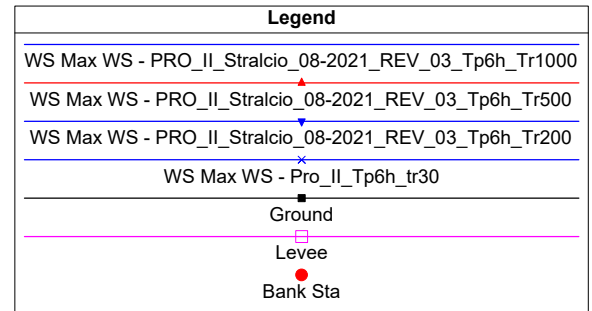
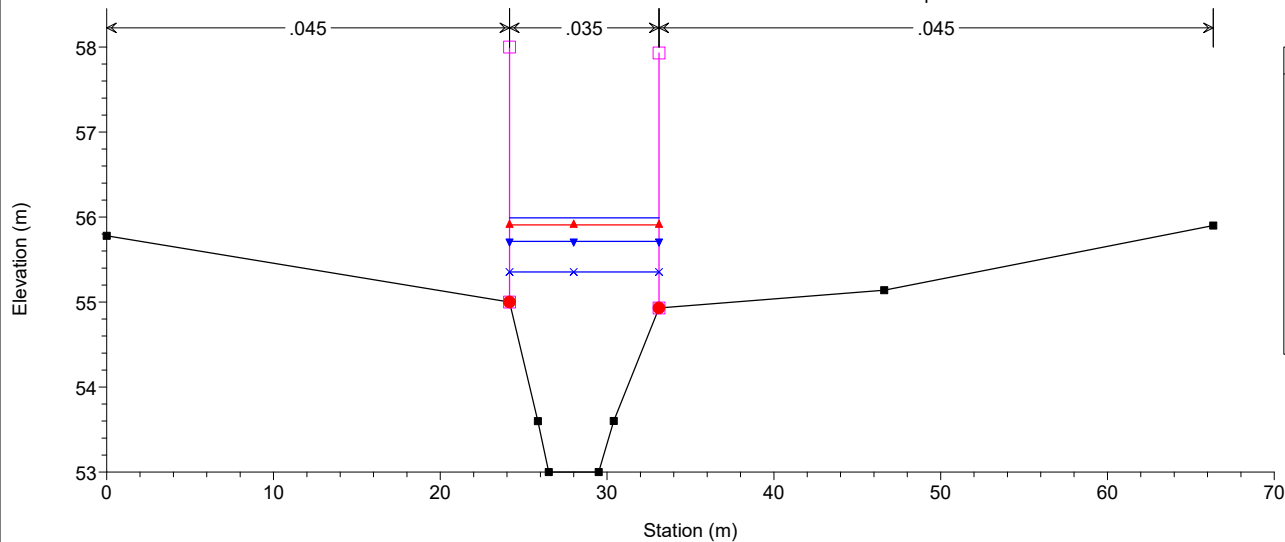
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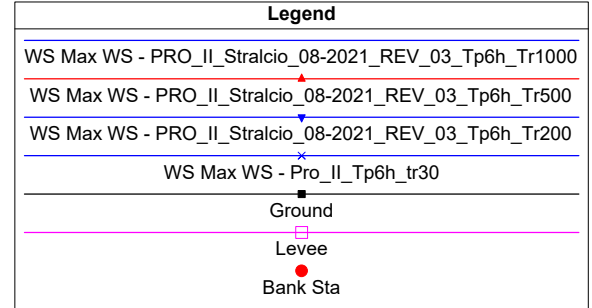
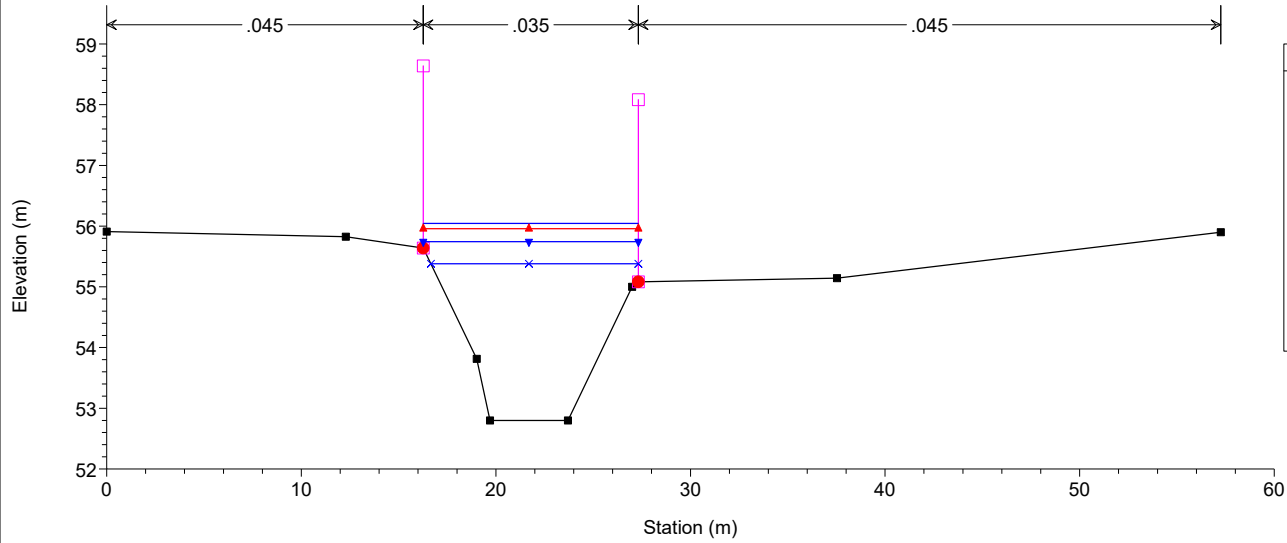
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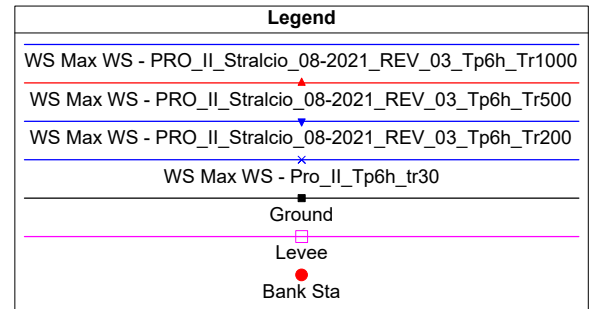
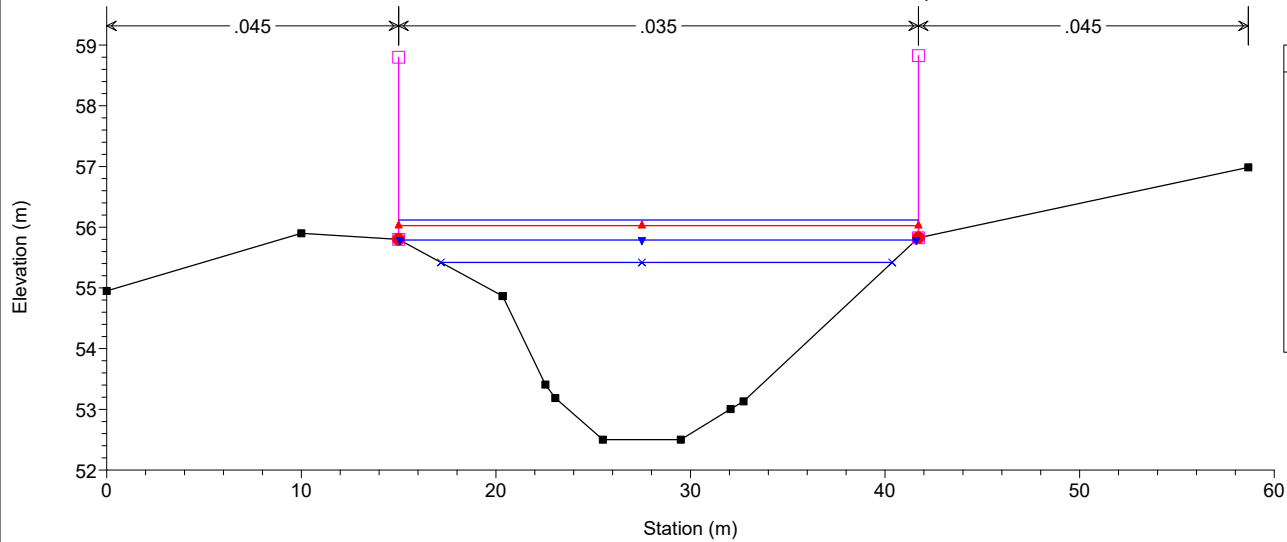
RS = 26 Riprofilatura PRO



RS = 25 Riprofilatura PRO

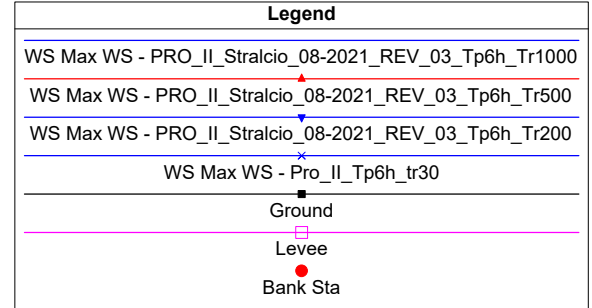
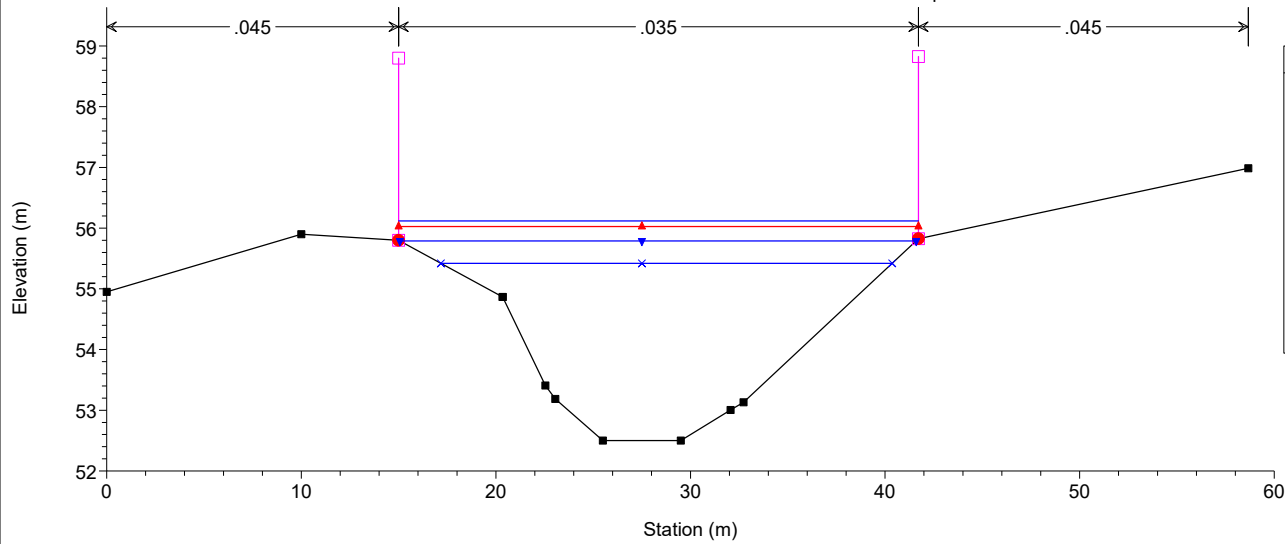


RS = 24 Riprofilatura PRO



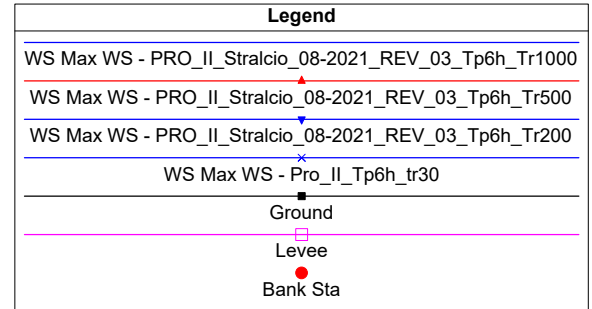
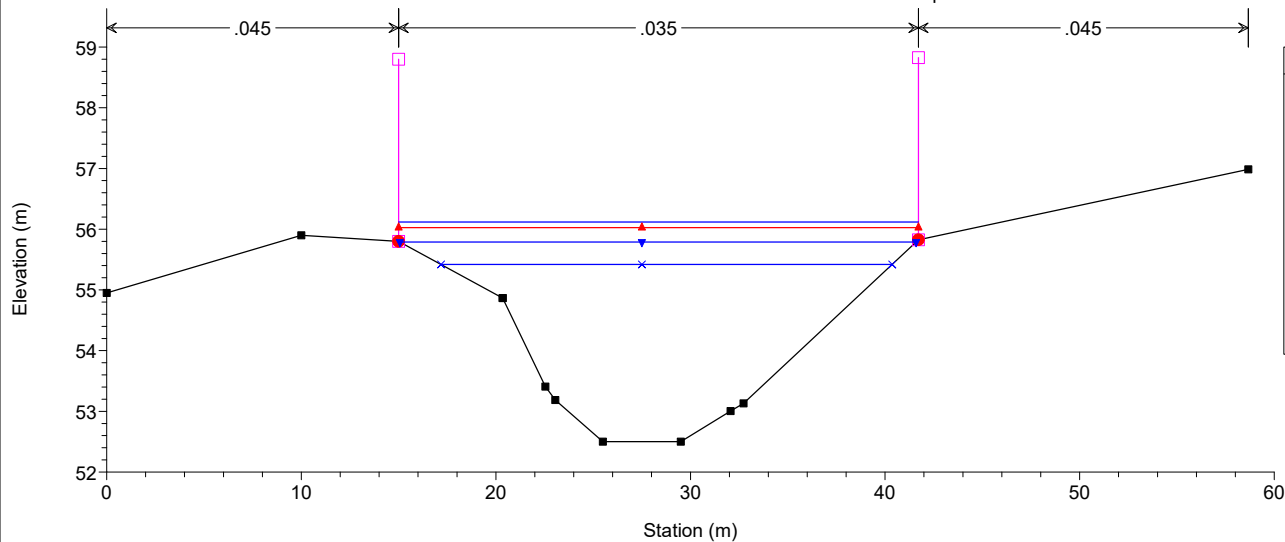
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RS = 23.5 Riprofilatura PRO



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 23.2 Riprofilatura PRO



HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS

Reach	River Sta	Profile	Plan	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
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.08	80.69	82.87	82.95	83.41	0.016532	3.26	15.99	18.18	1.11
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	49.65	80.69	82.84	82.92	83.37	0.016431	3.21	15.45	17.84	1.10
Pietroso	97	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	41.77	80.69	82.72	82.79	83.22	0.017016	3.13	13.35	16.42	1.11
Pietroso	97	Max WS	Pro_II_Tp6h_tr30	27.98	80.69	82.48	82.52	82.90	0.016452	2.87	9.75	13.16	1.06
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.04	79.87	82.48		82.57	0.001993	1.85	45.45	41.94	0.39
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	49.50	79.87	82.43		82.52	0.002016	1.84	43.73	41.72	0.39
Pietroso	96	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	41.77	79.87	82.27		82.36	0.002362	1.89	36.72	40.80	0.42
Pietroso	96	Max WS	Pro_II_Tp6h_tr30	27.98	79.87	82.09		82.16	0.001915	1.60	29.66	39.85	0.37
Pietroso	95.9			Lat Struct									
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	49.09	79.50	82.47	81.65	82.51	0.000733	1.24	59.73	42.08	0.26
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.58	79.50	82.43	81.62	82.47	0.000719	1.21	58.04	41.93	0.25
Pietroso	95	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.27	79.50	82.27	81.53	82.30	0.000660	1.11	51.44	41.34	0.24
Pietroso	95	Max WS	Pro_II_Tp6h_tr30	27.20	79.50	82.08	81.39	82.11	0.000571	0.97	43.66	40.63	0.22
Pietroso	94.9			Ini Struct									
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	49.09	79.30	81.48	81.62	82.01	0.011791	3.74	19.66	29.99	0.96
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.58	79.30	81.45	81.59	81.96	0.011551	3.65	18.76	28.22	0.95
Pietroso	94.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.27	79.30	81.32	81.41	81.78	0.011153	3.39	15.48	24.44	0.92
Pietroso	94.8	Max WS	Pro_II_Tp6h_tr30	27.20	79.30	81.16	81.23	81.57	0.010912	3.08	11.76	21.20	0.89
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	49.09	79.05	81.22	81.31	81.66	0.010361	3.60	21.96	31.85	0.89
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.58	79.05	81.19	81.29	81.63	0.010513	3.58	20.94	31.58	0.89
Pietroso	94	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.27	79.05	81.06	81.18	81.51	0.011339	3.52	16.84	30.48	0.92
Pietroso	94	Max WS	Pro_II_Tp6h_tr30	27.20	79.05	80.88	81.05	81.37	0.012591	3.41	11.78	25.95	0.95
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	49.09	78.37	80.52	80.78	81.39	0.017298	4.51	14.26	17.72	1.18
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.57	78.37	80.49	80.74	81.33	0.017239	4.43	13.65	17.27	1.17
Pietroso	93	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.26	78.37	80.34	80.58	81.11	0.017489	4.16	11.20	15.30	1.16
Pietroso	93	Max WS	Pro_II_Tp6h_tr30	27.20	78.37	80.13	80.34	80.82	0.018919	3.85	8.28	12.56	1.17
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	49.03	78.30	80.32	80.31	80.78	0.007240	3.27	19.53	21.15	0.79
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.56	78.30	80.28	80.27	80.73	0.007169	3.21	18.80	20.95	0.79
Pietroso	92	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.26	78.30	80.13	80.04	80.52	0.006877	2.96	15.76	19.08	0.76
Pietroso	92	Max WS	Pro_II_Tp6h_tr30	27.20	78.30	79.91		80.25	0.006825	2.66	11.98	15.38	0.74
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	48.84	77.48	80.14	80.16	80.57	0.008368	3.59	21.61	26.28	0.80
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.47	77.48	80.11	80.13	80.53	0.008266	3.54	20.79	25.64	0.79
Pietroso	91	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.26	77.48	79.94	79.97	80.35	0.008411	3.37	16.90	22.37	0.79
Pietroso	91	Max WS	Pro_II_Tp6h_tr30	27.20	77.48	79.70	79.77	80.12	0.009351	3.25	12.09	18.14	0.81
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	48.89	77.52	79.84	79.93	80.44	0.011728	4.03	16.87	16.85	0.91
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.16	77.52	79.81	79.89	80.38	0.011358	3.92	16.33	16.66	0.89

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	90	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.25	77.52	79.64	79.73	80.19	0.011816	3.77	13.56	15.64	0.89
Pietroso	90	Max WS	Pro_II_Tp6h_tr30	27.20	77.52	79.38	79.53	79.96	0.013790	3.68	9.79	14.20	0.94
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	50.62	77.08	79.63		79.76	0.002687	2.19	39.02	41.00	0.48
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	48.45	77.08	79.58		79.72	0.002759	2.19	37.24	39.98	0.48
Pietroso	89	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	37.24	77.08	79.34		79.48	0.003206	2.18	28.07	34.24	0.51
Pietroso	89	Max WS	Pro_II_Tp6h_tr30	27.19	77.08	79.00		79.19	0.004846	2.35	17.95	26.51	0.60
Pietroso	88.8												
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.19	76.75	79.39		79.61	0.003645	2.70	30.71	27.01	0.56
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	49.56	76.75	79.34		79.56	0.003682	2.68	29.37	26.49	0.56
Pietroso	88.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.58	76.75	79.08		79.32	0.004486	2.72	22.67	23.75	0.61
Pietroso	88.3	Max WS	Pro_II_Tp6h_tr30	27.38	76.75	78.70		78.98	0.006045	2.76	14.66	18.78	0.68
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.12	76.59	79.16		79.57	0.006236	3.45	21.83	17.18	0.72
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	49.52	76.59	79.11		79.52	0.006210	3.40	21.02	16.92	0.71
Pietroso	88	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.58	76.59	78.84		79.26	0.007261	3.38	16.60	15.44	0.75
Pietroso	88	Max WS	Pro_II_Tp6h_tr30	27.38	76.59	78.47	78.45	78.91	0.009099	3.31	11.23	13.05	0.82
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.08	75.96	78.84		79.07	0.003340	2.15	24.25	14.23	0.53
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	42.53	75.96	78.83		78.99	0.002242	1.76	24.19	14.22	0.43
Pietroso	87	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.57	75.96	78.44		78.66	0.003774	2.09	18.90	12.66	0.55
Pietroso	87	Max WS	Pro_II_Tp6h_tr30	27.22	75.96	77.81		78.08	0.006573	2.33	11.69	10.18	0.69
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.08	75.91	78.86		79.04	0.002358	1.91	27.47	18.64	0.44
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	42.51	75.91	78.85		78.97	0.001598	1.57	27.29	18.20	0.36
Pietroso	86	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.57	75.91	78.46		78.63	0.002686	1.83	21.68	13.75	0.46
Pietroso	86	Max WS	Pro_II_Tp6h_tr30	27.20	75.91	77.81		78.03	0.005365	2.07	13.17	11.99	0.63
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	42.53	75.72	78.83		78.96	0.002220	1.61	27.10	23.88	0.42
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	42.49	75.72	78.82		78.96	0.002219	1.61	27.09	23.86	0.42
Pietroso	85	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.57	75.72	78.39		78.60	0.004259	2.04	19.42	14.43	0.56
Pietroso	85	Max WS	Pro_II_Tp6h_tr30	27.17	75.72	77.67		77.99	0.008314	2.51	10.80	9.45	0.75
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	42.49	75.61	78.76		78.94	0.002373	1.89	24.70	28.19	0.42
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	42.47	75.61	78.76		78.94	0.002373	1.89	24.69	28.10	0.42
Pietroso	84	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.57	75.61	78.27		78.56	0.004894	2.35	16.84	10.23	0.59
Pietroso	84	Max WS	Pro_II_Tp6h_tr30	27.11	75.61	77.52		77.91	0.010348	2.76	9.81	8.39	0.82
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.06	75.57	78.67	78.03	79.18	0.008523	3.18	16.86	17.51	0.72
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	44.26	75.57	78.64		79.03	0.006418	2.74	16.48	16.10	0.62
Pietroso	83.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.57	75.57	78.03		78.59	0.010545	3.34	11.85	6.00	0.76
Pietroso	83.2	Max WS	Pro_II_Tp6h_tr30	27.08	75.57	77.38		77.96	0.015095	3.38	8.01	5.94	0.93
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.06	75.52	78.67	77.74	79.05	0.004971	2.78	22.02	35.97	0.54

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	44.22	75.52	78.66	77.54	78.94	0.003678	2.38	21.03	28.21	0.47
Pietroso	83.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.57	75.52	78.16	77.41	78.52	0.005405	2.67	14.80	6.56	0.57
Pietroso	83.18	Max WS	Pro_II_Tp6h_tr30	27.08	75.52	77.43	77.05	77.79	0.007357	2.68	10.09	6.30	0.68
Pietroso	83.15		Bridge										
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.06	75.52	78.05		78.75	0.010675	3.69	14.10	6.51	0.80
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	49.51	75.52	78.03		78.67	0.009923	3.55	13.96	6.50	0.77
Pietroso	83.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.95	75.52	77.77		78.31	0.009209	3.25	12.28	6.42	0.75
Pietroso	83.1	Max WS	Pro_II_Tp6h_tr30	27.52	75.52	77.32		77.75	0.009261	2.92	9.41	6.27	0.76
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	52.06	75.50	78.22	77.53	78.65	0.005711	2.92	17.83	7.75	0.61
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	49.51	75.50	78.19	77.47	78.59	0.005316	2.81	17.64	7.73	0.59
Pietroso	83	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.92	75.50	77.91	77.24	78.25	0.004951	2.58	15.50	7.53	0.57
Pietroso	83	Max WS	Pro_II_Tp6h_tr30	27.51	75.50	77.43	76.90	77.70	0.004919	2.30	11.94	7.30	0.58
Pietroso	82.5		Inl Struct										
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	50.43	74.65	76.97		77.35	0.006139	2.75	18.36	11.38	0.69
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	48.30	74.65	76.89		77.28	0.006421	2.76	17.49	11.15	0.70
Pietroso	82	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.86	74.65	76.60		76.99	0.007402	2.76	14.42	10.27	0.74
Pietroso	82	Max WS	Pro_II_Tp6h_tr30	27.51	74.65	76.38		76.64	0.005525	2.25	12.24	9.60	0.64
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	50.30	74.58	76.86		77.28	0.006257	2.91	18.18	14.98	0.74
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	48.11	74.58	76.77		77.21	0.007038	2.97	16.86	14.27	0.78
Pietroso	81	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.70	74.58	76.44	76.40	76.95	0.011043	3.16	12.67	11.75	0.94
Pietroso	81	Max WS	Pro_II_Tp6h_tr30	27.45	74.58	76.22		76.60	0.010282	2.70	10.17	10.84	0.88
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	46.05	74.47	76.62		77.07	0.006280	3.23	17.83	14.81	0.75
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	46.92	74.47	76.51	76.47	77.07	0.008233	3.56	16.29	14.23	0.86
Pietroso	80	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	39.38	74.47	75.92	76.31	77.13	0.028297	5.03	8.85	10.99	1.48
Pietroso	80	Max WS	Pro_II_Tp6h_tr30	27.42	74.47	75.60	76.02	76.90	0.043807	5.07	5.66	8.78	1.75
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	43.89	73.60	76.73		76.83	0.001052	1.44	31.25	18.32	0.31
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	36.74	73.60	76.60		76.68	0.000881	1.28	29.07	16.01	0.28
Pietroso	79	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	31.07	73.60	75.71		75.86	0.002478	1.76	17.66	11.10	0.45
Pietroso	79	Max WS	Pro_II_Tp6h_tr30	27.42	73.60	75.18		75.44	0.005369	2.24	12.24	9.68	0.64
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	46.05	73.69	76.79		76.82	0.000229	0.81	91.21	69.32	0.16
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.85	73.69	76.66		76.68	0.000241	0.80	81.77	68.51	0.16
Pietroso	78	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	31.09	73.69	75.70		75.82	0.001769	1.59	23.05	34.08	0.40
Pietroso	78	Max WS	Pro_II_Tp6h_tr30	27.41	73.69	75.00		75.34	0.010003	2.62	10.53	12.43	0.88
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	46.04	72.75	76.80		76.81	0.000155	0.71	114.50	72.17	0.12
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.85	72.75	76.66		76.67	0.000151	0.69	104.92	68.38	0.12
Pietroso	77	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	31.04	72.75	75.74		75.78	0.000752	1.23	47.95	57.12	0.25

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	77	Max WS	Pro_II_Tp6h_tr30	27.41	72.75	74.80	74.88	75.31	0.011272	3.45	10.28	13.36	0.90
Pietroso	76	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	46.01	72.56	76.80		76.81	0.000162	0.76	111.75	76.70	0.13
Pietroso	76	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.80	72.56	76.66		76.67	0.000161	0.74	101.57	72.68	0.13
Pietroso	76	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	31.00	72.56	75.73		75.77	0.000640	1.18	45.90	50.26	0.24
Pietroso	76	Max WS	Pro_II_Tp6h_tr30	27.41	72.56	74.72	74.70	75.14	0.008388	2.99	11.11	14.48	0.81
Pietroso	75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	46.00	72.78	76.80		76.80	0.000064	0.45	197.48	209.15	0.08
Pietroso	75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.82	72.78	76.66		76.67	0.000070	0.46	169.84	194.80	0.09
Pietroso	75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.99	72.78	75.72		75.75	0.000426	0.87	52.81	60.63	0.20
Pietroso	75	Max WS	Pro_II_Tp6h_tr30	27.41	72.78	74.49		74.89	0.011951	2.78	9.84	10.80	0.93
Pietroso	74	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.95	72.23	76.80		76.80	0.000015	0.26	369.91	228.70	0.04
Pietroso	74	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.80	72.23	76.66		76.66	0.000015	0.25	339.18	220.36	0.04
Pietroso	74	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.96	72.23	75.73		75.73	0.000067	0.44	159.71	163.35	0.08
Pietroso	74	Max WS	Pro_II_Tp6h_tr30	27.03	72.23	73.86	74.18	74.59	0.017900	4.13	8.71	14.29	1.11
Pietroso	73	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.91	72.14	76.80		76.80	0.000007	0.18	488.14	242.09	0.03
Pietroso	73	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.80	72.14	76.66		76.66	0.000006	0.17	455.32	237.57	0.03
Pietroso	73	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.94	72.14	75.73		75.73	0.000022	0.27	247.58	206.72	0.05
Pietroso	73	Max WS	Pro_II_Tp6h_tr30	25.29	72.14	73.60		73.65	0.002233	1.40	31.11	55.68	0.41
Pietroso	72	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.90	71.72	76.80		76.80	0.000003	0.14	603.82	237.71	0.02
Pietroso	72	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.78	71.72	76.66		76.66	0.000003	0.13	571.32	237.24	0.02
Pietroso	72	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.90	71.72	75.73		75.73	0.000007	0.17	352.31	223.70	0.03
Pietroso	72	Max WS	Pro_II_Tp6h_tr30	25.29	71.72	73.60		73.61	0.000363	0.65	61.30	72.64	0.18
Pietroso	71	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.89	71.50	76.80		76.80	0.000003	0.13	613.26	214.52	0.02
Pietroso	71	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.74	71.50	76.66		76.66	0.000002	0.12	583.99	214.09	0.02
Pietroso	71	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.90	71.50	75.73		75.73	0.000005	0.15	385.37	209.20	0.03
Pietroso	71	Max WS	Pro_II_Tp6h_tr30	25.29	71.50	73.60		73.61	0.000247	0.61	68.34	69.39	0.15
Pietroso	70	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.87	70.78	76.80		76.80	0.000003	0.15	583.43	213.82	0.02
Pietroso	70	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.67	70.78	76.66		76.66	0.000003	0.14	554.24	212.72	0.02
Pietroso	70	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.88	70.78	75.73		75.73	0.000007	0.18	358.90	204.67	0.03
Pietroso	70	Max WS	Pro_II_Tp6h_tr30	24.76	70.78	73.58		73.60	0.000430	1.00	47.18	50.34	0.20
Pietroso	69	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.87	70.43	76.80		76.80	0.000003	0.13	606.83	228.83	0.02
Pietroso	69	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	70.43	76.66		76.66	0.000002	0.13	575.59	227.73	0.02
Pietroso	69	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.88	70.43	75.73		75.73	0.000005	0.16	366.73	215.31	0.03
Pietroso	69	Max WS	Pro_II_Tp6h_tr30	24.76	70.43	73.57		73.59	0.000255	0.69	42.66	34.86	0.16
Pietroso	68	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.86	70.19	76.80		76.80	0.000003	0.15	589.76	218.21	0.02
Pietroso	68	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.67	70.19	76.66		76.66	0.000003	0.14	560.00	216.79	0.02
Pietroso	68	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.88	70.19	75.73		75.73	0.000005	0.17	361.76	207.06	0.03
Pietroso	68	Max WS	Pro_II_Tp6h_tr30	24.76	70.19	73.57		73.59	0.000216	0.72	42.52	28.31	0.15



HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	67	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.83	70.19	76.80		76.80	0.000003	0.15	565.59	209.03	0.02
Pietroso	67	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.67	70.19	76.66		76.66	0.000003	0.14	537.09	207.39	0.02
Pietroso	67	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.87	70.19	75.73		75.73	0.000006	0.18	348.30	196.14	0.03
Pietroso	67	Max WS	Pro_II_Tp6h_tr30	24.75	70.19	73.57		73.59	0.000200	0.70	48.29	40.58	0.14
Pietroso	66	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.83	69.83	76.80		76.80	0.000003	0.14	557.08	207.66	0.02
Pietroso	66	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.67	69.83	76.66		76.66	0.000003	0.13	528.84	205.96	0.02
Pietroso	66	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.87	69.83	75.73		75.73	0.000005	0.16	341.57	194.31	0.02
Pietroso	66	Max WS	Pro_II_Tp6h_tr30	24.75	69.83	73.57		73.58	0.000118	0.50	54.63	41.41	0.11
Pietroso	65	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.82	69.54	76.80		76.80	0.000002	0.11	735.35	234.67	0.01
Pietroso	65	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.66	69.54	76.66		76.66	0.000001	0.10	703.31	233.58	0.01
Pietroso	65	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.85	69.54	75.73		75.73	0.000002	0.12	488.28	226.18	0.02
Pietroso	65	Max WS	Pro_II_Tp6h_tr30	24.75	69.54	73.58		73.58	0.000068	0.42	95.75	102.72	0.08
Pietroso	64	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.77	69.46	76.80		76.80	0.000001	0.10	803.26	236.13	0.01
Pietroso	64	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.66	69.46	76.66		76.66	0.000001	0.10	771.02	235.00	0.01
Pietroso	64	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.79	69.46	75.73		75.73	0.000002	0.11	554.80	227.29	0.01
Pietroso	64	Max WS	Pro_II_Tp6h_tr30	24.76	69.46	73.58		73.58	0.000031	0.34	133.42	115.02	0.06
Pietroso	63	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.75	68.53	76.80		76.80	0.000000	0.07	1151.94	259.94	0.01
Pietroso	63	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.65	68.53	76.66		76.66	0.000000	0.06	1116.44	258.93	0.01
Pietroso	63	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.70	68.53	75.73		75.73	0.000000	0.06	877.49	251.97	0.01
Pietroso	63	Max WS	Pro_II_Tp6h_tr30	24.82	68.53	73.58		73.58	0.000004	0.14	353.16	235.97	0.02
Pietroso	62	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	68.57	76.80		76.80	0.000000	0.05	1357.35	256.06	0.01
Pietroso	62	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.64	68.57	76.66		76.66	0.000000	0.05	1322.37	255.15	0.01
Pietroso	62	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.69	68.57	75.73		75.73	0.000000	0.04	1086.63	248.88	0.01
Pietroso	62	Max WS	Pro_II_Tp6h_tr30	24.82	68.57	73.58		73.58	0.000001	0.08	567.23	234.48	0.01
Pietroso	61	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	68.00	76.80		76.80	0.000000	0.06	1244.73	207.84	0.01
Pietroso	61	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.64	68.00	76.66		76.66	0.000000	0.05	1216.30	207.66	0.01
Pietroso	61	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.67	68.00	75.73		75.73	0.000000	0.05	1022.61	206.45	0.01
Pietroso	61	Max WS	Pro_II_Tp6h_tr30	24.81	68.00	73.58		73.58	0.000001	0.07	582.67	200.13	0.01
Pietroso	60.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	68.00	76.79	70.34	76.83	0.000034	0.90	139.11	204.69	0.10
Pietroso	60.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.64	68.00	76.66	70.19	76.69	0.000032	0.87	111.86	204.49	0.10
Pietroso	60.8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.66	68.00	75.72	69.87	75.76	0.000034	0.83	37.12	203.09	0.10
Pietroso	60.8	Max WS	Pro_II_Tp6h_tr30	24.81	68.00	73.57	69.66	73.62	0.000070	0.94	26.36	196.05	0.13
Pietroso	60.5			Inl Struct									
Pietroso	59	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	67.80	69.57	70.08	71.13	0.019117	5.53	8.31	8.60	1.65
Pietroso	59	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.62	67.80	69.50	70.08	70.90	0.018223	5.23	7.76	7.18	1.60
Pietroso	59	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.67	67.80	69.34	69.70	70.43	0.015798	4.61	6.65	6.62	1.47

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	59	Max WS	Pro_II_Tp6h_tr30	24.81	67.80	69.22	69.48	70.13	0.014446	4.23	5.87	6.26	1.39
Pietroso	58.75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	67.70	69.41	69.96	71.34	0.048823	6.30	8.35	14.48	1.86
Pietroso	58.75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.60	67.70	69.34	69.92	71.14	0.046994	6.02	7.50	12.60	1.82
Pietroso	58.75	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.64	67.70	69.20	69.72	70.65	0.042474	5.35	5.93	8.86	1.70
Pietroso	58.75	Max WS	Pro_II_Tp6h_tr30	24.79	67.70	69.09	69.60	70.30	0.039659	4.88	5.10	6.37	1.62
Pietroso	58	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	66.79	69.07		69.22	0.004432	2.27	28.05	25.85	0.52
Pietroso	58	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	41.13	66.79	69.01		69.15	0.004196	2.16	26.62	25.58	0.51
Pietroso	58	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	31.44	66.79	68.87		68.98	0.003727	1.94	23.12	24.92	0.47
Pietroso	58	Max WS	Pro_II_Tp6h_tr30	25.24	66.79	68.77		68.87	0.003369	1.77	20.63	24.43	0.44
Pietroso	57	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	67.01	68.88	68.90	69.21	0.010208	3.11	21.64	33.83	0.89
Pietroso	57	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.77	67.01	68.83	68.85	69.14	0.010139	3.01	19.85	33.61	0.88
Pietroso	57	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	31.01	67.01	68.71	68.72	68.99	0.009959	2.78	15.93	33.13	0.86
Pietroso	57	Max WS	Pro_II_Tp6h_tr30	24.99	67.01	68.62	68.62	68.88	0.010058	2.66	13.04	25.89	0.85
Pietroso	56	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	66.65	68.69		68.97	0.009716	3.27	23.77	34.66	0.80
Pietroso	56	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.68	66.65	68.62	68.65	68.91	0.010377	3.28	21.33	34.07	0.82
Pietroso	56	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.77	66.65	68.47	68.55	68.80	0.012416	3.36	16.16	32.78	0.89
Pietroso	56	Max WS	Pro_II_Tp6h_tr30	24.89	66.65	68.36	68.48	68.75	0.014647	3.46	12.68	31.45	0.95
Pietroso	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	66.08	68.25	68.47	68.96	0.015304	4.12	15.47	22.76	1.01
Pietroso	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	66.08	68.17	68.40	68.89	0.015989	4.07	13.58	22.01	1.02
Pietroso	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.71	66.08	67.98	68.23	68.71	0.017383	3.91	9.60	20.35	1.04
Pietroso	55	Max WS	Pro_II_Tp6h_tr30	24.85	66.08	67.84	68.11	68.50	0.017044	3.63	7.51	11.15	1.01
Pietroso	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.71	65.75	67.85	67.98	68.60	0.013135	4.03	13.24	12.66	1.03
Pietroso	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	65.75	67.76	67.87	68.45	0.013224	3.88	12.06	12.05	1.03
Pietroso	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.70	65.75	67.55	67.62	68.14	0.013324	3.52	9.74	10.76	1.00
Pietroso	54	Max WS	Pro_II_Tp6h_tr30	24.84	65.75	67.41	67.47	67.93	0.013467	3.27	8.31	9.89	0.99
Pietroso	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	64.27	66.45	66.51	67.10	0.011078	3.65	13.94	13.80	0.92
Pietroso	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	64.27	66.36	66.39	66.96	0.011049	3.50	12.66	13.09	0.91
Pietroso	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.69	64.27	66.14	66.09	66.65	0.011146	3.17	10.00	11.48	0.89
Pietroso	53	Max WS	Pro_II_Tp6h_tr30	24.84	64.27	65.98		66.42	0.011345	2.95	8.43	7.38	0.88
Pietroso	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	61.70	63.85	64.01	64.60	0.013525	3.86	12.40	13.26	0.99
Pietroso	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	61.70	63.73	63.81	64.44	0.014114	3.74	11.01	10.21	1.00
Pietroso	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	61.70	63.47	63.46	64.08	0.014317	3.46	8.86	7.16	0.99
Pietroso	52	Max WS	Pro_II_Tp6h_tr30	24.84	61.70	63.28	63.26	63.83	0.014054	3.27	7.58	6.61	0.98
Pietroso	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	60.83	62.99		63.61	0.010852	3.50	13.06	8.40	0.90
Pietroso	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	60.83	62.87		63.45	0.010554	3.35	12.14	8.23	0.88
Pietroso	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	60.83	62.63		63.09	0.009872	3.01	10.20	7.87	0.84
Pietroso	51	Max WS	Pro_II_Tp6h_tr30	24.84	60.83	62.48		62.87	0.009288	2.76	8.99	7.63	0.81

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	50	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	60.57	62.78		63.24	0.007546	3.01	15.31	9.89	0.73
Pietroso	50	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	60.57	62.69		63.09	0.007074	2.82	14.43	9.42	0.70
Pietroso	50	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	60.57	62.49		62.79	0.005958	2.42	12.68	8.63	0.64
Pietroso	50	Max WS	Pro_II_Tp6h_tr30	24.84	60.57	62.36		62.60	0.005101	2.14	11.59	8.54	0.59
Pietroso	49	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	60.30	62.58		62.83	0.004513	2.19	20.85	15.91	0.61
Pietroso	49	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	60.30	62.50		62.72	0.004221	2.07	19.58	15.42	0.59
Pietroso	49	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	60.30	62.33		62.49	0.003501	1.80	17.03	14.38	0.53
Pietroso	49	Max WS	Pro_II_Tp6h_tr30	24.84	60.30	62.22		62.35	0.002927	1.60	15.48	13.58	0.48
Pietroso	48	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	60.21	62.22	62.36	62.91	0.019389	3.70	12.35	12.87	1.21
Pietroso	48	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	60.21	62.13	62.27	62.79	0.019991	3.61	11.27	12.50	1.21
Pietroso	48	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	60.21	61.95	62.07	62.53	0.021297	3.37	9.09	11.72	1.22
Pietroso	48	Max WS	Pro_II_Tp6h_tr30	24.84	60.21	61.84	61.94	62.36	0.022271	3.20	7.76	11.22	1.23
Pietroso	47	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	59.62	61.66		62.04	0.008809	2.76	16.58	15.03	0.84
Pietroso	47	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	59.62	61.55		61.92	0.009104	2.70	15.07	14.47	0.84
Pietroso	47	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	59.62	61.34		61.67	0.009684	2.54	12.09	13.31	0.85
Pietroso	47	Max WS	Pro_II_Tp6h_tr30	24.84	59.62	61.20		61.50	0.010079	2.42	10.26	12.49	0.85
Pietroso	46	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	58.98	61.20		61.63	0.008497	2.92	15.68	11.88	0.81
Pietroso	46	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	58.98	61.08		61.49	0.008611	2.83	14.38	11.56	0.81
Pietroso	46	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	58.98	60.84		61.20	0.008966	2.63	11.68	10.86	0.81
Pietroso	46	Max WS	Pro_II_Tp6h_tr30	24.84	58.98	60.68		61.00	0.009289	2.49	9.99	10.39	0.81
Pietroso	45	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	58.26	60.74		61.18	0.008176	2.94	15.55	11.46	0.81
Pietroso	45	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	58.26	60.63		61.04	0.008173	2.84	14.29	11.07	0.80
Pietroso	45	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	58.26	60.38		60.74	0.008171	2.63	11.68	10.22	0.78
Pietroso	45	Max WS	Pro_II_Tp6h_tr30	24.84	58.26	60.22		60.53	0.008173	2.47	10.05	9.64	0.77
Pietroso	44	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	57.88	60.26		60.76	0.009954	3.15	14.53	10.78	0.87
Pietroso	44	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	57.88	60.14		60.62	0.009975	3.05	13.33	10.37	0.86
Pietroso	44	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	57.88	59.89		60.30	0.010078	2.83	10.83	9.47	0.85
Pietroso	44	Max WS	Pro_II_Tp6h_tr30	24.84	57.88	59.72		60.09	0.010213	2.68	9.25	8.85	0.84
Pietroso	43.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	57.75	60.10		60.48	0.006368	2.75	16.62	11.29	0.72
Pietroso	43.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	57.75	59.99		60.34	0.006220	2.64	15.39	10.95	0.71
Pietroso	43.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	57.75	59.74		60.03	0.005921	2.40	12.77	10.12	0.68
Pietroso	43.2	Max WS	Pro_II_Tp6h_tr30	24.84	57.75	59.57		59.82	0.005715	2.24	11.08	9.53	0.66
Pietroso	43.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.70	57.74	60.19	59.66	60.44	0.003941	2.20	20.77	13.85	0.57
Pietroso	43.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	57.74	60.07	59.56	60.30	0.004002	2.12	19.14	13.81	0.58
Pietroso	43.18	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	57.74	59.81	59.34	60.01	0.004108	1.97	15.54	12.89	0.57
Pietroso	43.18	Max WS	Pro_II_Tp6h_tr30	24.84	57.74	59.62	59.19	59.80	0.004141	1.87	13.26	11.97	0.57

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	43.15			Bridge									
Pietroso	43.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.70	57.74	60.09		60.37	0.004891	2.36	19.36	13.82	0.64
Pietroso	43.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	57.74	59.97		60.24	0.005097	2.30	17.67	13.69	0.65
Pietroso	43.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	57.74	59.70		59.94	0.005311	2.17	14.14	12.33	0.65
Pietroso	43.1	Max WS	Pro_II_Tp6h_tr30	24.84	57.74	59.51		59.73	0.005467	2.08	11.97	11.42	0.65
Pietroso	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.70	57.36	59.61		60.19	0.010941	3.37	13.58	9.73	0.91
Pietroso	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	57.36	59.50		60.04	0.010931	3.26	12.47	9.39	0.90
Pietroso	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	57.36	59.24		59.70	0.010860	3.01	10.20	8.65	0.88
Pietroso	42	Max WS	Pro_II_Tp6h_tr30	24.84	57.36	59.08		59.48	0.010769	2.83	8.79	8.15	0.87
Pietroso	41.9			Lat Struct									
Pietroso	41.8			Lat Struct									
Pietroso	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.70	57.20	59.30		59.69	0.006218	2.75	16.60	10.95	0.71
Pietroso	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	57.20	59.19		59.55	0.006079	2.64	15.40	10.67	0.70
Pietroso	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	57.20	58.95		59.24	0.005777	2.39	12.86	10.07	0.67
Pietroso	41	Max WS	Pro_II_Tp6h_tr30	24.84	57.20	58.78		59.03	0.005600	2.21	11.21	9.66	0.66
Pietroso	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.69	56.94	59.13		59.51	0.006720	2.74	16.65	12.09	0.75
Pietroso	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	56.94	59.01		59.37	0.006722	2.66	15.29	11.67	0.74
Pietroso	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	56.94	58.76		59.07	0.006715	2.46	12.48	10.75	0.73
Pietroso	40	Max WS	Pro_II_Tp6h_tr30	24.84	56.94	58.60		58.87	0.006707	2.32	10.73	10.13	0.72
Pietroso	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.69	56.50	58.71		59.16	0.008098	2.97	15.37	11.21	0.81
Pietroso	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	56.50	58.59		59.02	0.008048	2.88	14.13	10.78	0.80
Pietroso	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	56.50	58.35		58.71	0.007731	2.63	11.65	9.89	0.77
Pietroso	39	Max WS	Pro_II_Tp6h_tr30	24.84	56.50	58.20		58.50	0.007358	2.44	10.16	9.30	0.75
Pietroso	38	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.69	56.38	58.49	58.45	59.07	0.011710	3.37	13.55	10.79	0.96
Pietroso	38	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	56.38	58.38	58.34	58.93	0.011927	3.29	12.33	10.33	0.96
Pietroso	38	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	56.38	58.13	58.10	58.62	0.012151	3.08	9.95	9.37	0.95
Pietroso	38	Max WS	Pro_II_Tp6h_tr30	24.84	56.38	57.98	57.93	58.41	0.012078	2.91	8.54	8.74	0.94
Pietroso	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.69	56.39	58.28		58.69	0.007777	2.82	16.21	12.95	0.80
Pietroso	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	56.39	58.16		58.55	0.008211	2.78	14.61	12.45	0.82
Pietroso	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	56.39	57.90		58.26	0.009035	2.65	11.57	11.42	0.84
Pietroso	37	Max WS	Pro_II_Tp6h_tr30	24.84	56.39	57.74		58.07	0.009489	2.53	9.80	10.78	0.85
Pietroso	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	45.69	55.85	58.17		58.40	0.003686	2.10	21.73	15.12	0.56
Pietroso	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	40.63	55.85	58.02		58.24	0.003947	2.08	19.54	14.60	0.57
Pietroso	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	30.68	55.85	57.72		57.93	0.004546	2.00	15.31	13.52	0.60
Pietroso	36	Max WS	Pro_II_Tp6h_tr30	24.84	55.85	57.54		57.73	0.004966	1.93	12.86	12.85	0.62

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietroso	35	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.69	55.82	57.98		58.28	0.004660	2.42	18.88	12.59	0.63
Pietroso	35	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	55.82	57.83		58.12	0.004956	2.39	16.99	12.12	0.65
Pietroso	35	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	55.82	57.51		57.78	0.005588	2.30	13.35	11.16	0.67
Pietroso	35	Max WS	Pro_II_Tp6h_tr30	24.84	55.82	57.32		57.57	0.005972	2.21	11.25	10.56	0.68
Pietroso	34.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.69	55.66	57.81	57.33	58.17	0.005685	2.66	17.15	9.58	0.64
Pietroso	34.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	55.66	57.67	57.22	58.00	0.005713	2.57	15.80	9.48	0.64
Pietroso	34.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	55.66	57.37	57.01	57.66	0.005799	2.36	13.03	9.42	0.64
Pietroso	34.2	Max WS	Pro_II_Tp6h_tr30	24.84	55.66	57.18	56.88	57.43	0.005910	2.21	11.26	9.39	0.64
Pietroso	34.15			Bridge									
Pietroso	34.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.69	55.71	57.32		57.89	0.010705	3.34	13.69	9.29	0.88
Pietroso	34.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	55.71	57.23		57.74	0.010201	3.16	12.87	9.26	0.86
Pietroso	34.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	55.71	57.04		57.43	0.009219	2.78	11.04	9.20	0.81
Pietroso	34.1	Max WS	Pro_II_Tp6h_tr30	24.84	55.71	56.91		57.23	0.008526	2.52	9.86	9.16	0.77
Pietroso	34.09			Lat Struct									
Pietroso	34.08			Lat Struct									
Pietroso	33	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.69	55.06	57.02		57.28	0.006780	2.27	20.12	20.28	0.73
Pietroso	33	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	55.06	56.94		57.19	0.006515	2.18	18.66	19.44	0.71
Pietroso	33	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	55.06	56.72		56.95	0.007231	2.11	14.53	17.07	0.73
Pietroso	33	Max WS	Pro_II_Tp6h_tr30	24.84	55.06	56.56		56.78	0.007897	2.07	11.99	15.44	0.75
Pietroso	32	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.69	55.06	57.09		57.20	0.001735	1.48	30.84	21.19	0.39
Pietroso	32	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	55.06	57.01		57.11	0.001602	1.39	29.28	20.94	0.37
Pietroso	32	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	55.06	56.78		56.86	0.001556	1.25	24.52	20.12	0.36
Pietroso	32	Max WS	Pro_II_Tp6h_tr30	24.84	55.06	56.62		56.69	0.001567	1.17	21.28	19.54	0.36
Pietroso	31	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.69	54.69	56.86		57.24	0.006805	2.75	16.60	12.36	0.74
Pietroso	31	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	54.69	56.76		57.11	0.006661	2.63	15.42	11.63	0.73
Pietroso	31	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.68	54.69	56.56		56.83	0.005996	2.33	13.16	11.09	0.68
Pietroso	31	Max WS	Pro_II_Tp6h_tr30	24.84	54.69	56.42		56.65	0.005641	2.14	11.62	10.70	0.65
Pietroso	30	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.69	54.43	56.64		56.88	0.005265	2.19	20.83	18.36	0.66
Pietroso	30	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	54.43	56.55		56.78	0.005133	2.10	19.31	17.79	0.64
Pietroso	30	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.66	54.43	56.34		56.53	0.005306	1.97	15.59	16.30	0.64
Pietroso	30	Max WS	Pro_II_Tp6h_tr30	24.83	54.43	56.16		56.35	0.006051	1.94	12.81	15.08	0.67
Pietroso	29	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.68	54.43	56.44		56.80	0.008731	2.63	17.36	17.02	0.83
Pietroso	29	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.63	54.43	56.36		56.69	0.008688	2.54	15.99	16.46	0.82
Pietroso	29	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.66	54.43	56.13		56.44	0.010077	2.47	12.41	14.91	0.86
Pietroso	29	Max WS	Pro_II_Tp6h_tr30	24.83	54.43	55.95	55.88	56.28	0.013117	2.54	9.76	13.66	0.96

HEC-RAS River: Rio Pietroso Reach: Pietroso Profile: Max WS (Continued)

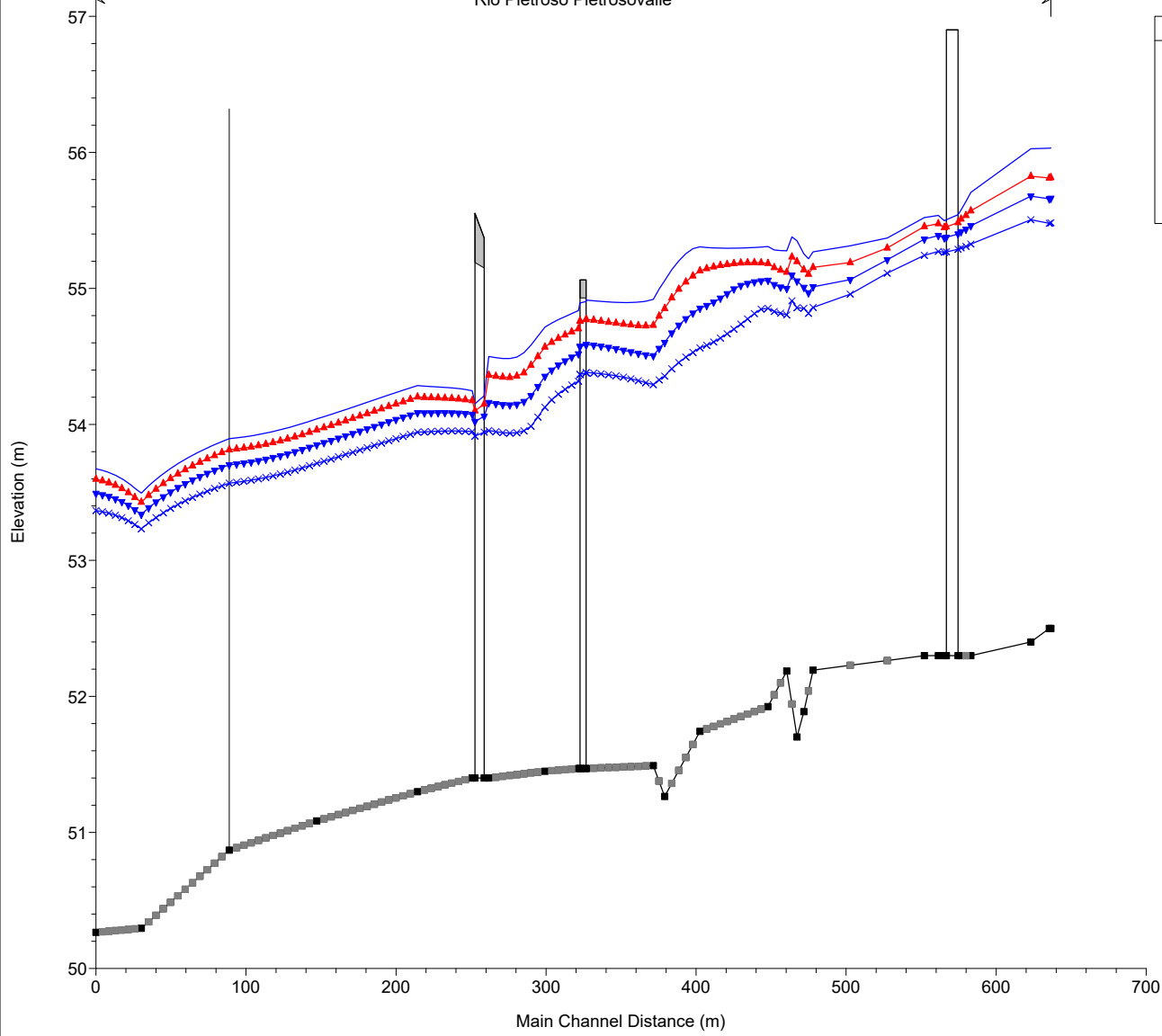
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pietroso	28	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	45.68	54.01	56.23		56.68	0.010303	2.97	15.37	13.39	0.89
Pietroso	28	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.62	54.01	56.15		56.56	0.009801	2.83	14.37	13.00	0.86
Pietroso	28	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.61	54.01	55.92		56.28	0.010340	2.67	11.48	11.80	0.86
Pietroso	28	Max WS	Pro_II_Tp6h_tr30	24.82	54.01	55.69	55.67	56.09	0.013843	2.79	8.90	10.60	0.97
Pietroso	27.9		Lat Struct										
Pietroso	27.8		Lat Struct										
Pietroso	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	44.68	53.50	56.14		56.38	0.003334	2.28	24.45	26.42	0.53
Pietroso	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.62	53.50	56.07		56.30	0.003234	2.19	22.77	26.13	0.52
Pietroso	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.59	53.50	55.83		56.03	0.003090	2.01	17.18	18.80	0.50
Pietroso	27	Max WS	Pro_II_Tp6h_tr30	24.76	53.50	55.49		55.71	0.004231	2.12	12.10	12.02	0.57
Pietroso	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	40.83	53.00	55.99		56.19	0.002367	1.97	20.70	8.96	0.41
Pietroso	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	40.14	53.00	55.91		56.11	0.002542	2.01	19.94	8.96	0.43
Pietroso	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.56	53.00	55.71		55.86	0.001909	1.68	18.21	8.96	0.38
Pietroso	26	Max WS	Pro_II_Tp6h_tr30	24.75	53.00	55.35		55.49	0.002204	1.65	14.98	8.96	0.41
Pietroso	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	40.31	52.80	56.04		56.17	0.001336	1.56	25.87	11.05	0.33
Pietroso	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	39.93	52.80	55.96		56.09	0.001465	1.60	24.89	11.05	0.34
Pietroso	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.56	52.80	55.74		55.84	0.001147	1.36	22.54	11.05	0.30
Pietroso	25	Max WS	Pro_II_Tp6h_tr30	24.75	52.80	55.38		55.47	0.001305	1.33	18.56	10.66	0.32
Pietroso	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	39.21	52.50	56.12		56.14	0.000218	0.68	57.85	26.72	0.15
Pietroso	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	39.25	52.50	56.03		56.05	0.000251	0.71	55.40	26.72	0.16
Pietroso	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.57	52.50	55.79		55.81	0.000221	0.62	49.09	26.54	0.15
Pietroso	24	Max WS	Pro_II_Tp6h_tr30	24.70	52.50	55.42		55.44	0.000241	0.62	39.92	23.20	0.15
Pietroso	23.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	38.90	52.50	56.12		56.14	0.000215	0.67	57.85	26.72	0.15
Pietroso	23.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	39.12	52.50	56.03		56.05	0.000249	0.71	55.39	26.72	0.16
Pietroso	23.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.57	52.50	55.79		55.81	0.000221	0.62	49.08	26.53	0.15
Pietroso	23.5	Max WS	Pro_II_Tp6h_tr30	24.69	52.50	55.42		55.44	0.000241	0.62	39.91	23.19	0.15
Pietroso	23.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	38.57	52.50	56.12		56.14	0.000211	0.67	57.85	26.72	0.14
Pietroso	23.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	38.97	52.50	56.02		56.05	0.000247	0.70	55.38	26.72	0.16
Pietroso	23.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	30.57	52.50	55.79		55.81	0.000221	0.62	49.05	26.53	0.15
Pietroso	23.2	Max WS	Pro_II_Tp6h_tr30	24.68	52.50	55.42		55.44	0.000241	0.62	39.89	23.19	0.15

**Rio Pietroso – Tratto di valle (a valle confluenza con Rio Arnese - sez. 23.2 – sez. 4)**

**Verifiche idrauliche moto vario stato di progetto**

**Tr=1000, 500, 200 e Tr=30 anni – Tp Critico**

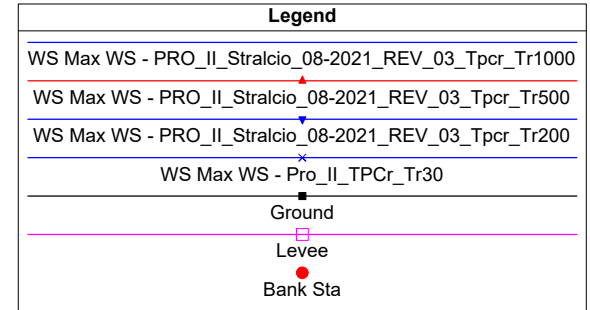
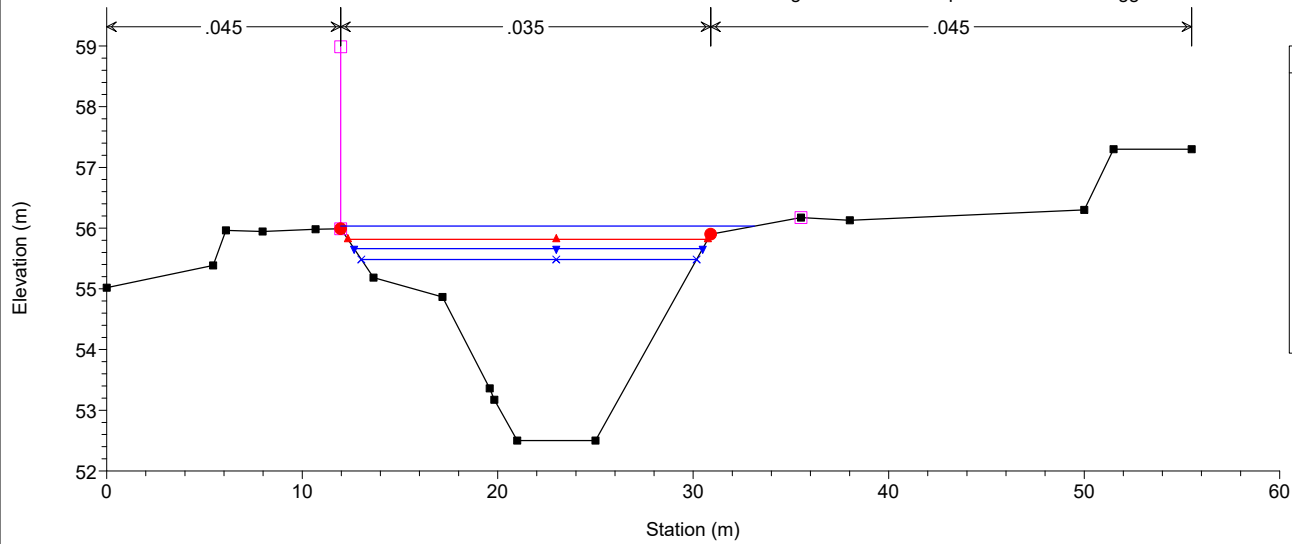
Rio Pietroso Pietrosovalle



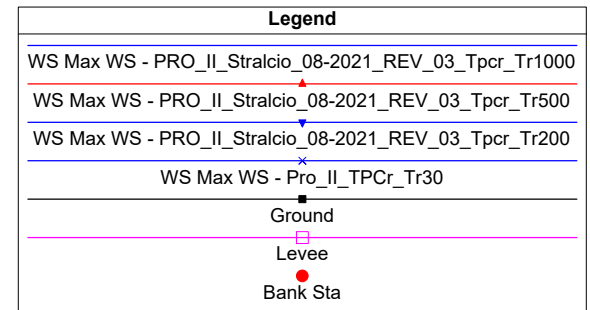
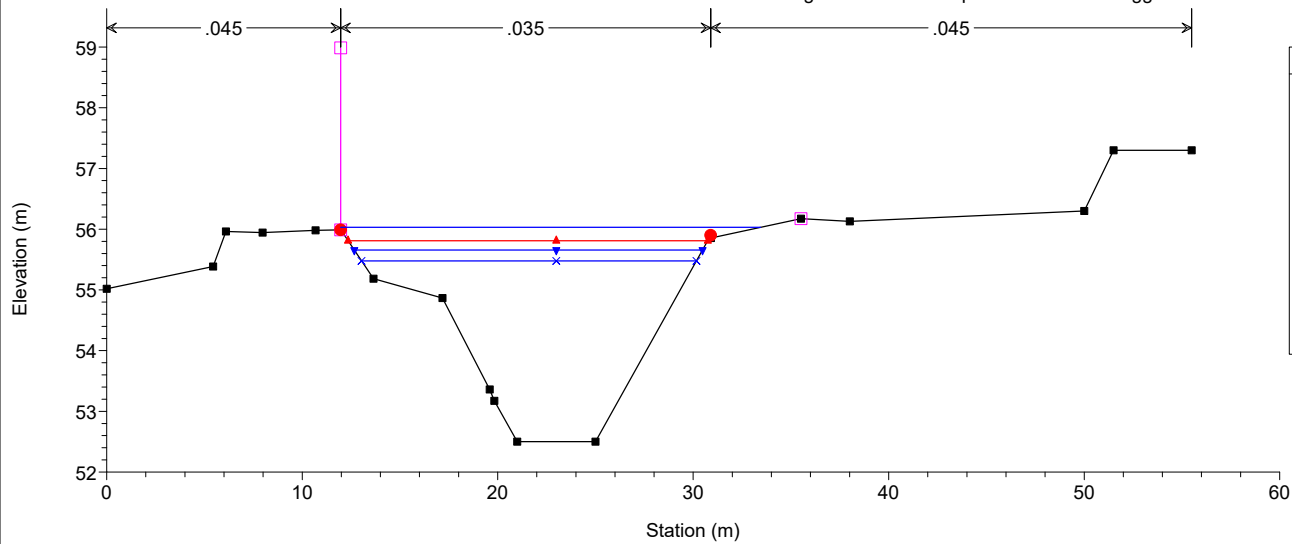
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Ground	■



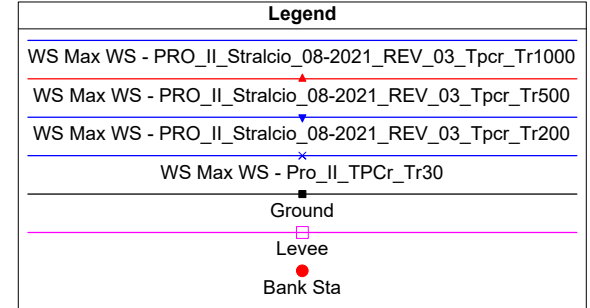
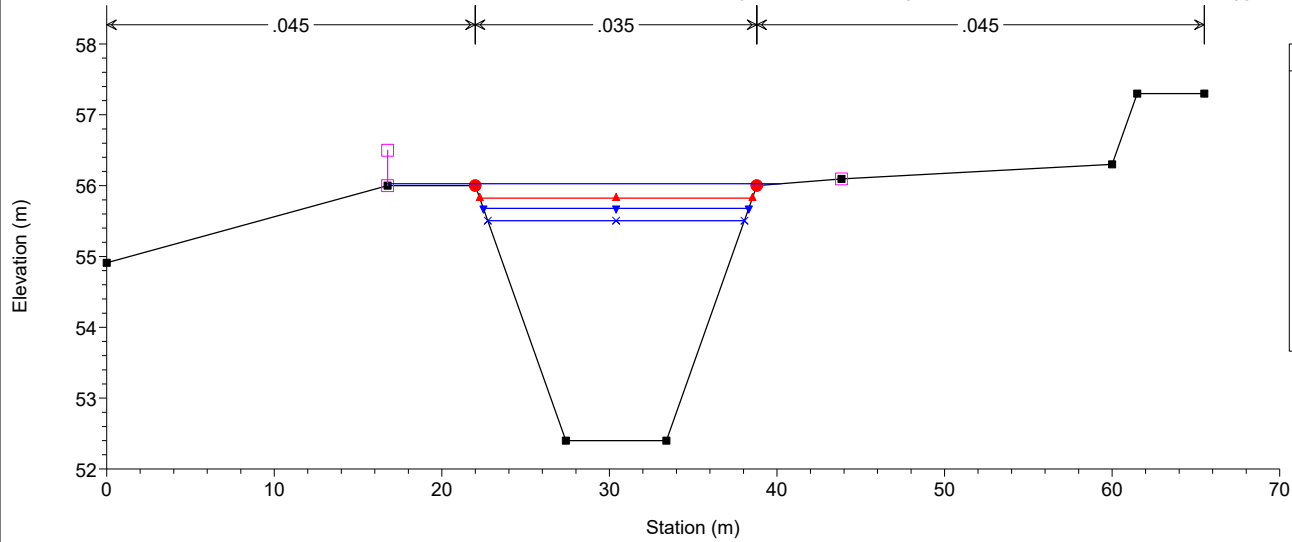
RS = 23 Con arginetto in destra a protezione di via Ruggero Grieco



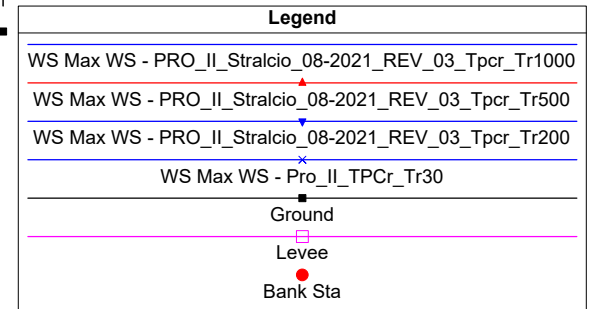
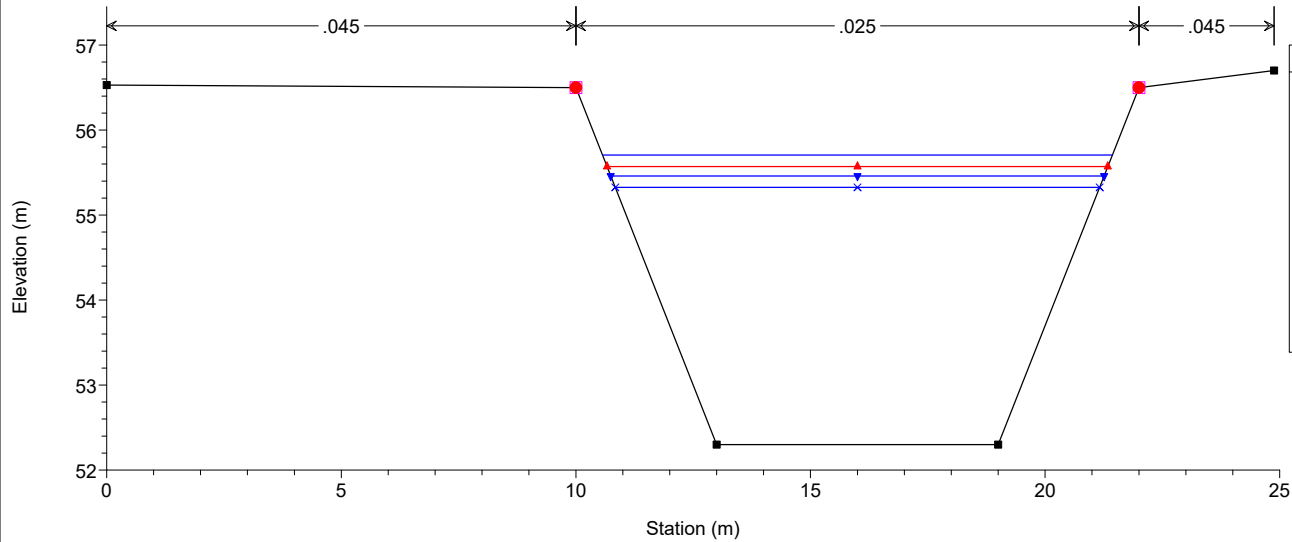
RS = 22.99 Con arginetto in destra a protezione di via Ruggero Grieco

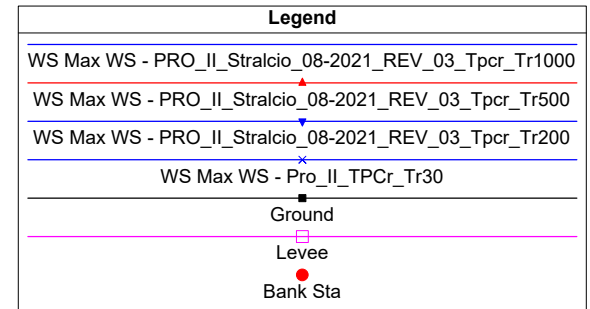
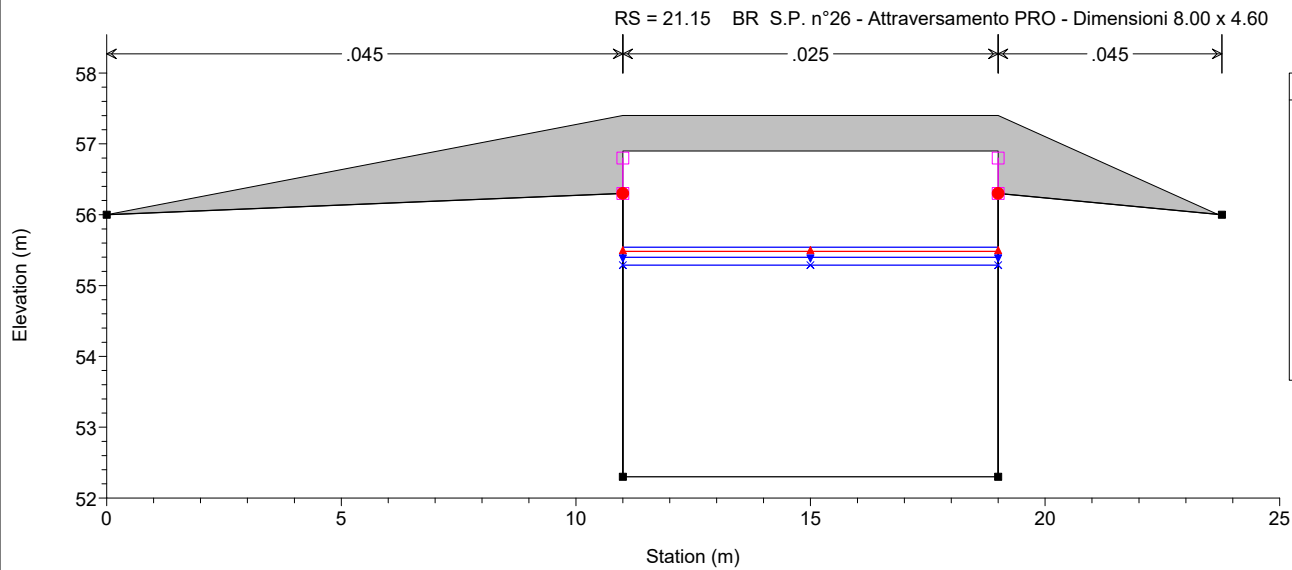
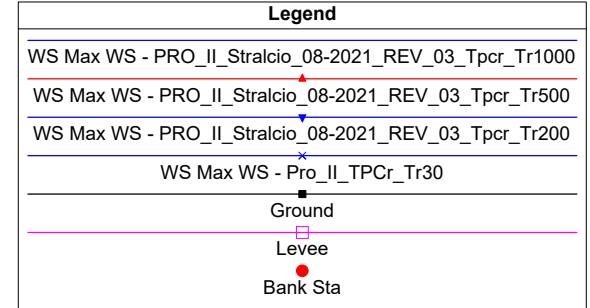
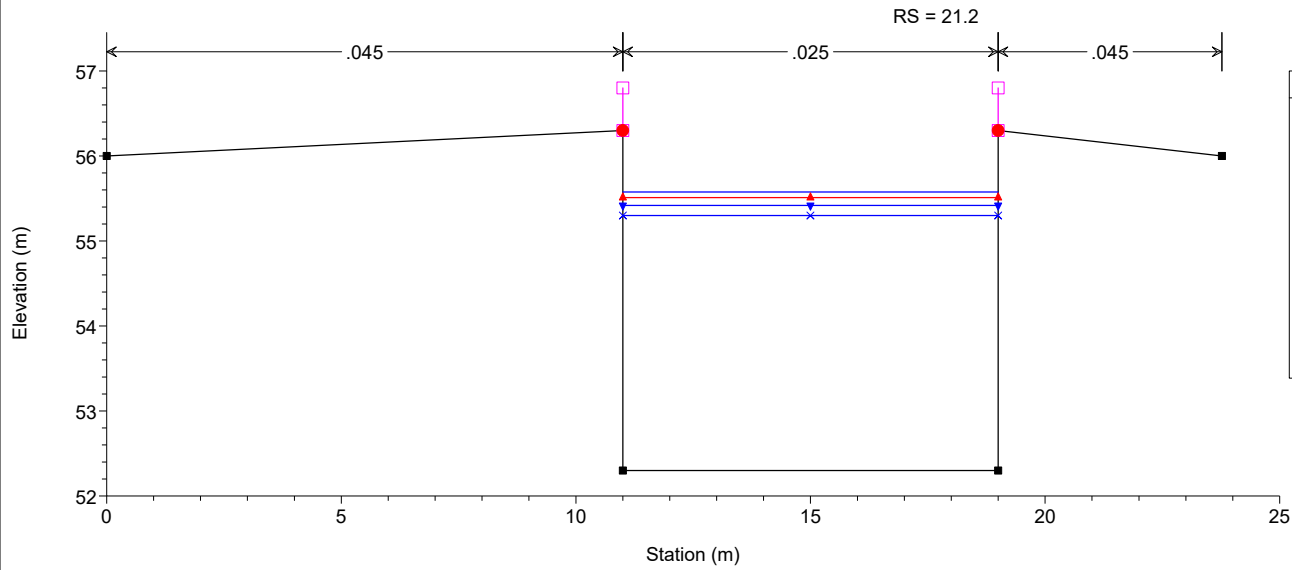


RS = 22 Risagomatura PRO e arginetto in destra a protezione di via Ruggie

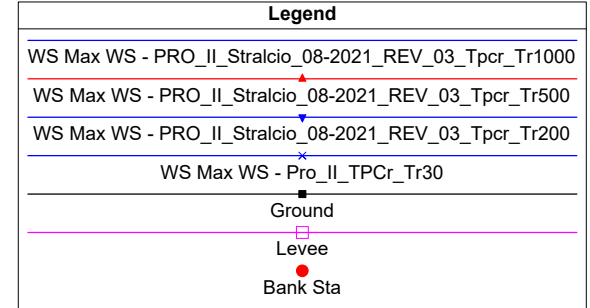
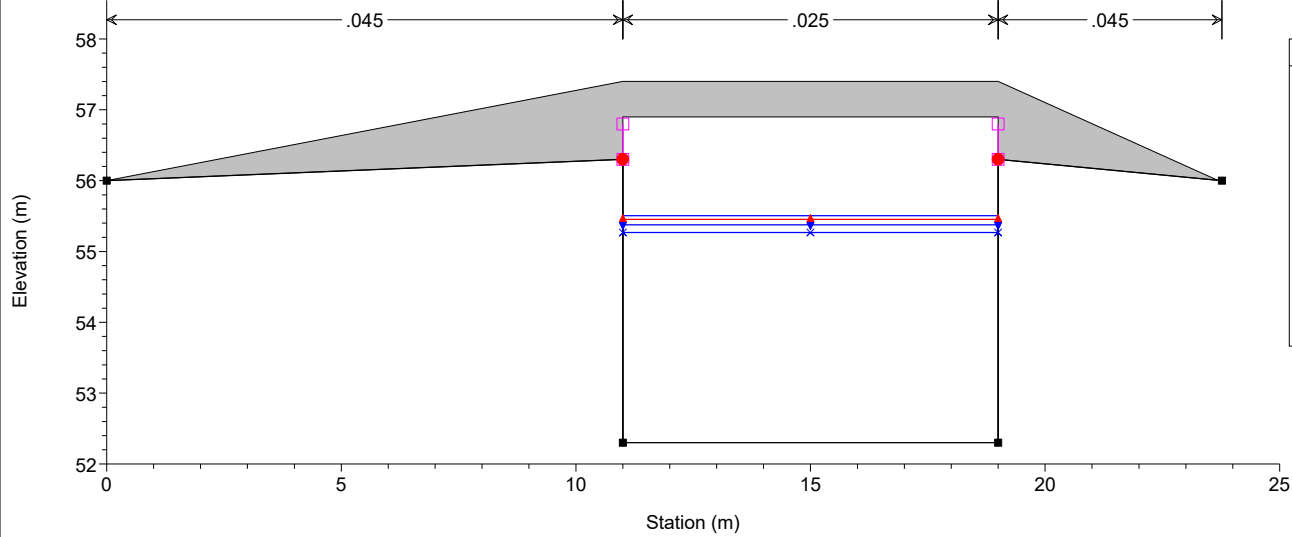


RS = 21.3 Ausiliaria monte attraversamento PRO S.P.

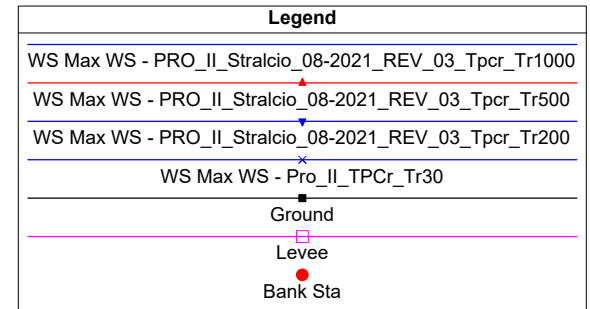
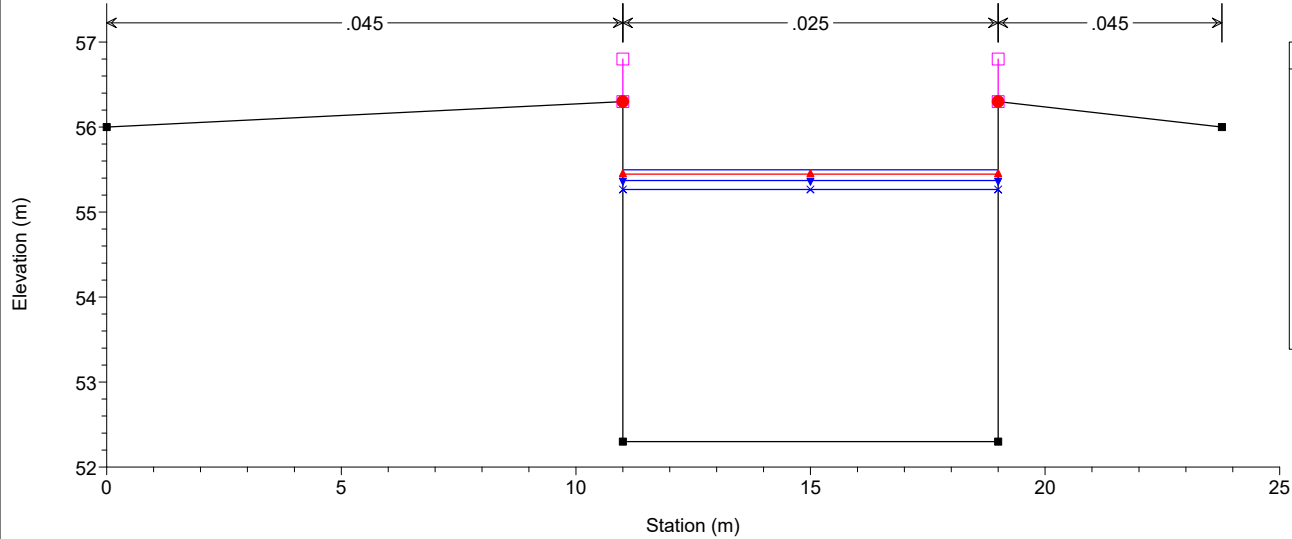




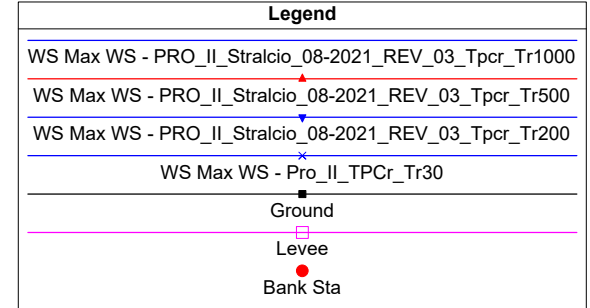
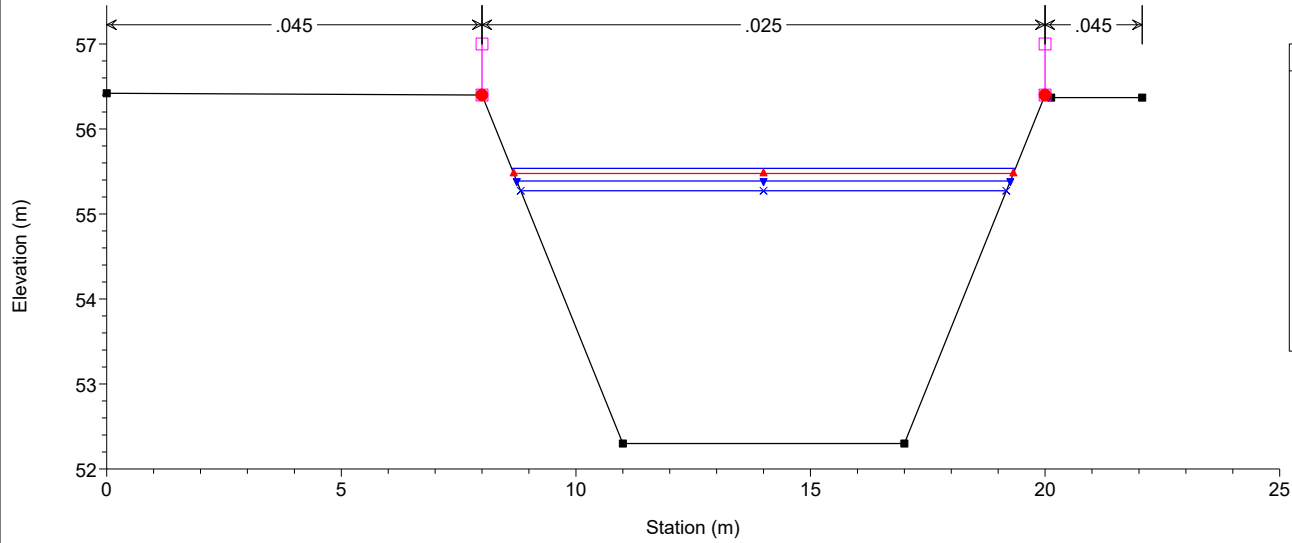
RS = 21.15 BR S.P. n°26 - Attraversamento PRO - Dimensioni 8.00 x 4.60



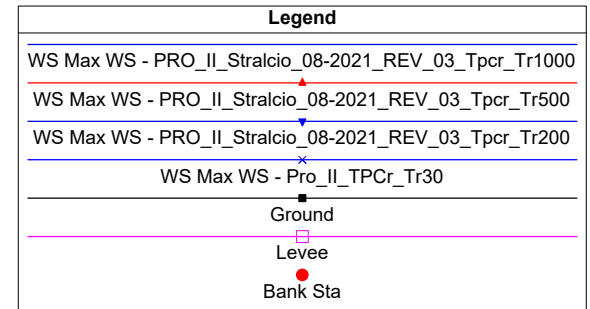
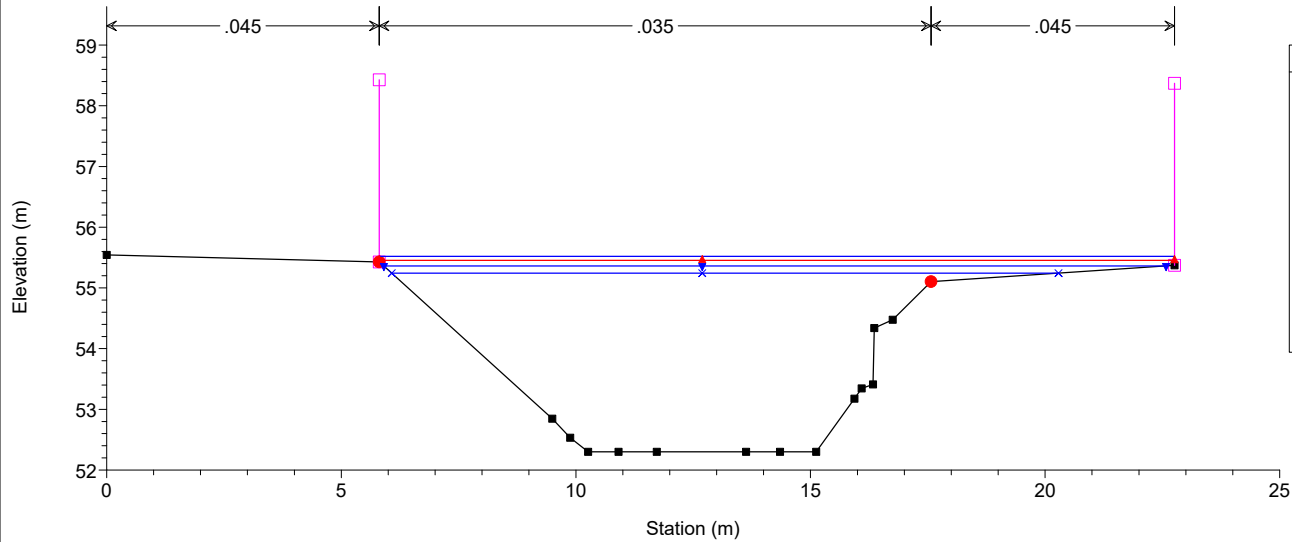
RS = 21.1

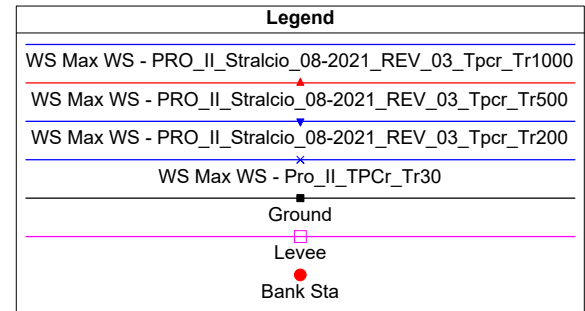
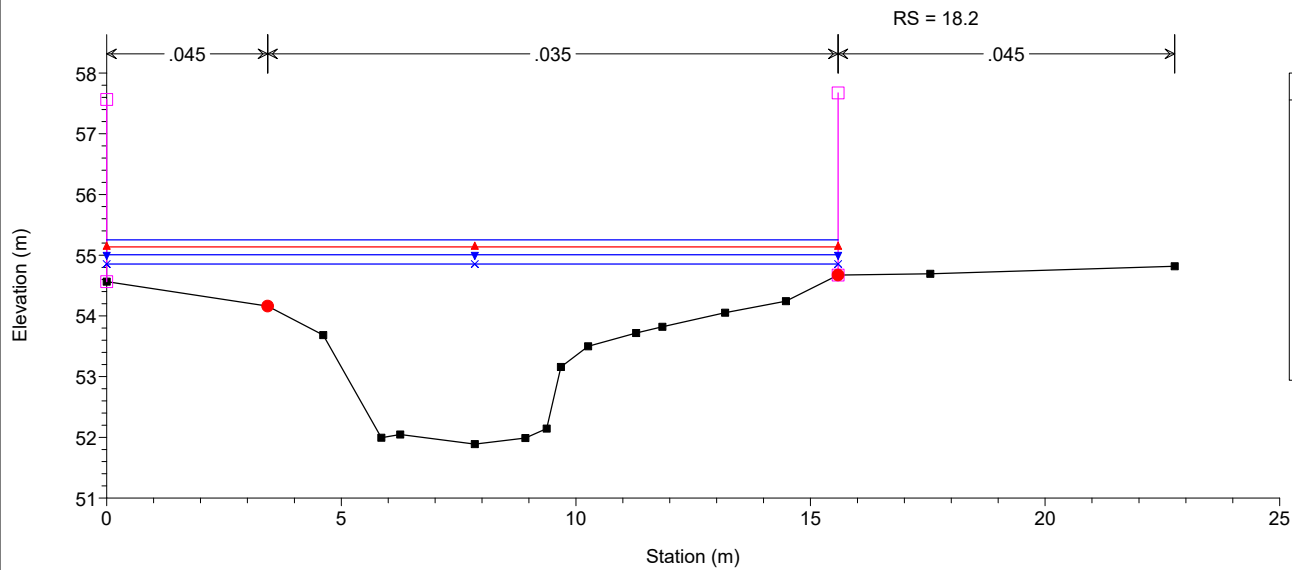
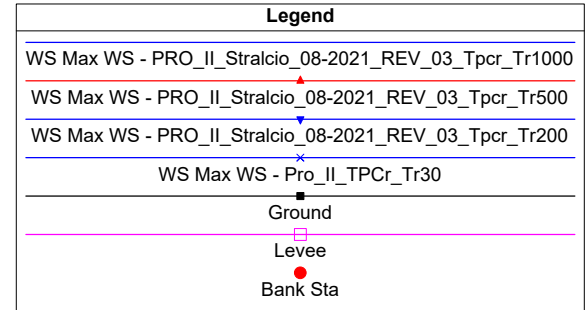
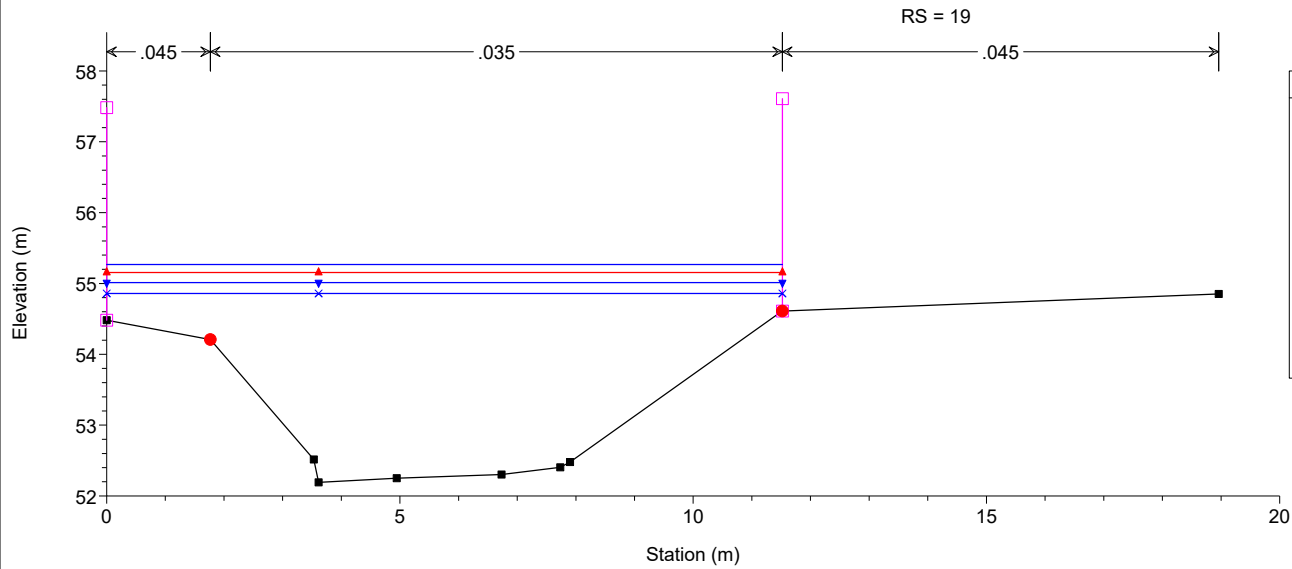


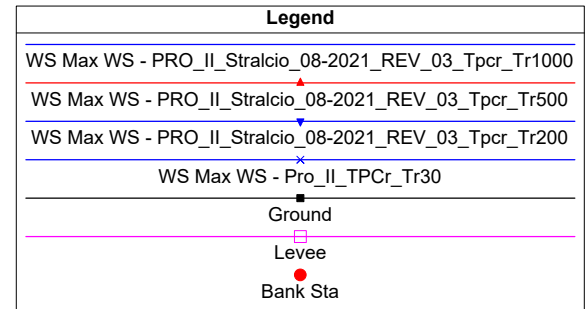
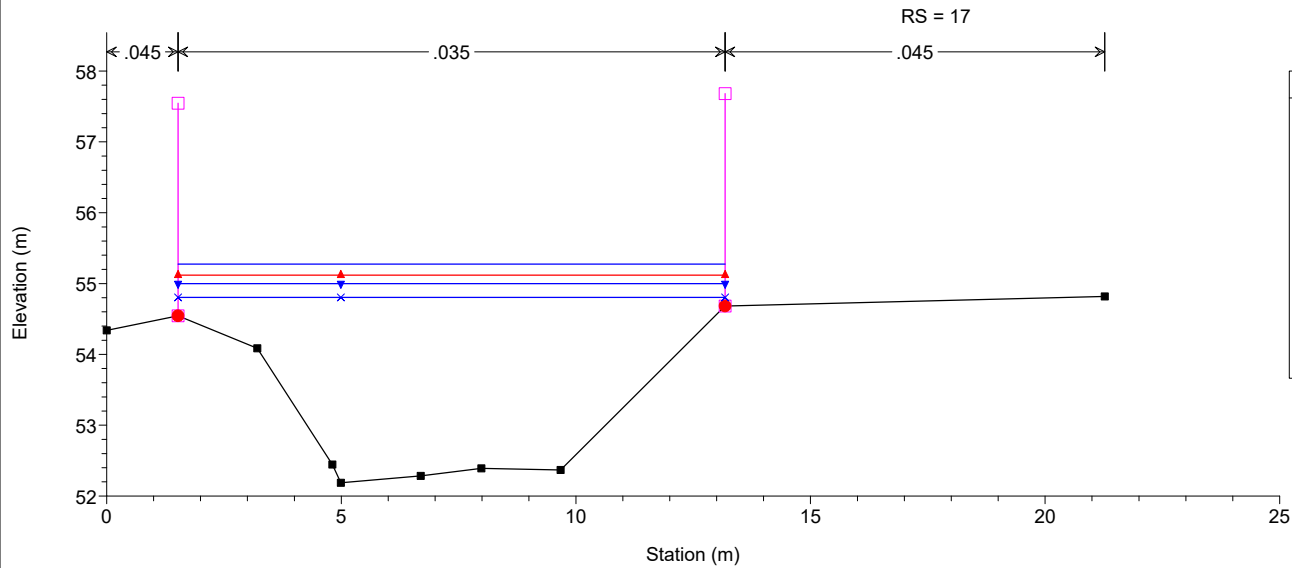
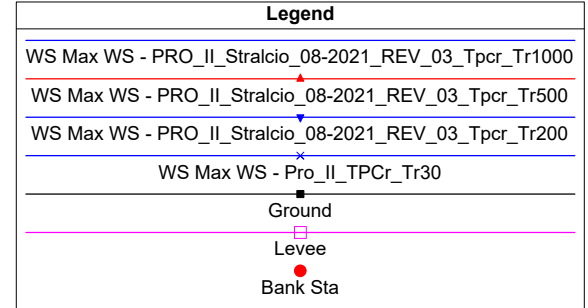
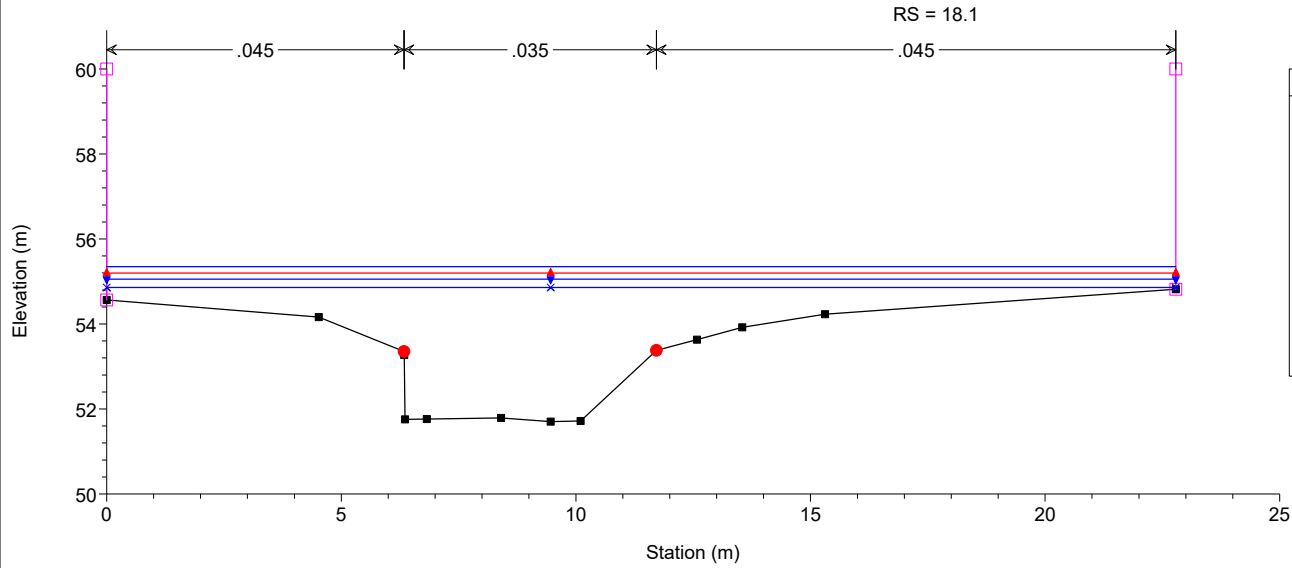
RS = 20.7 Ausiliaria valle attraversamento PRO S.P.



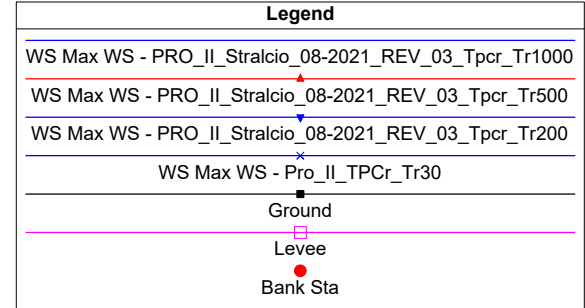
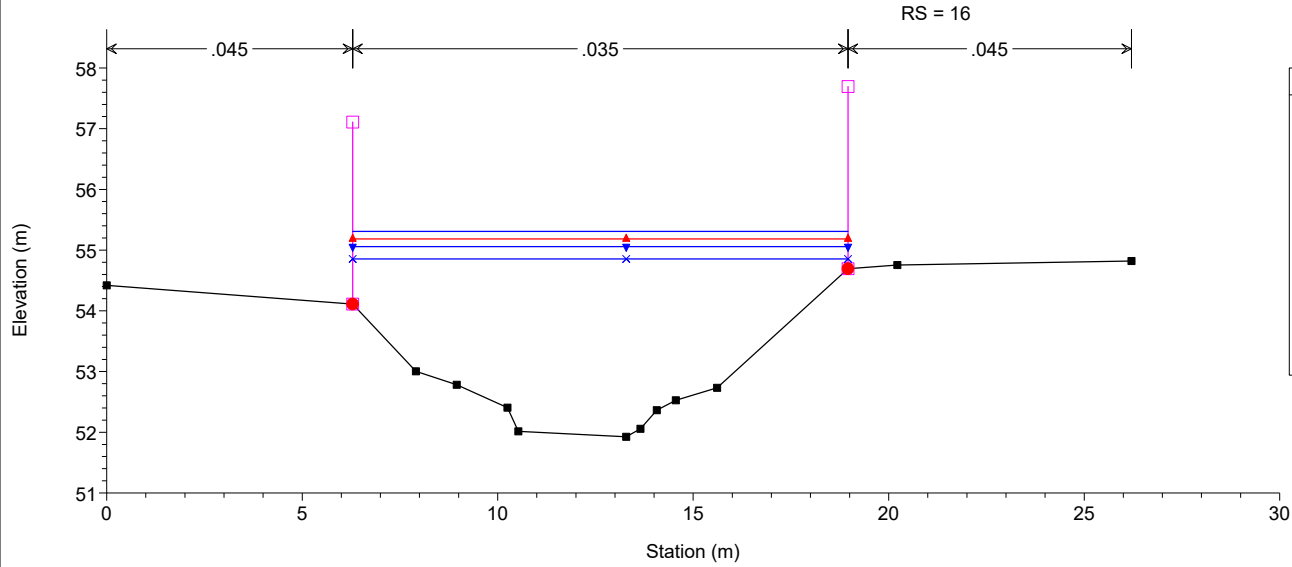
RS = 20



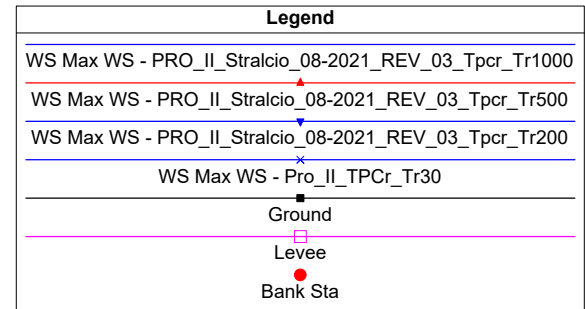
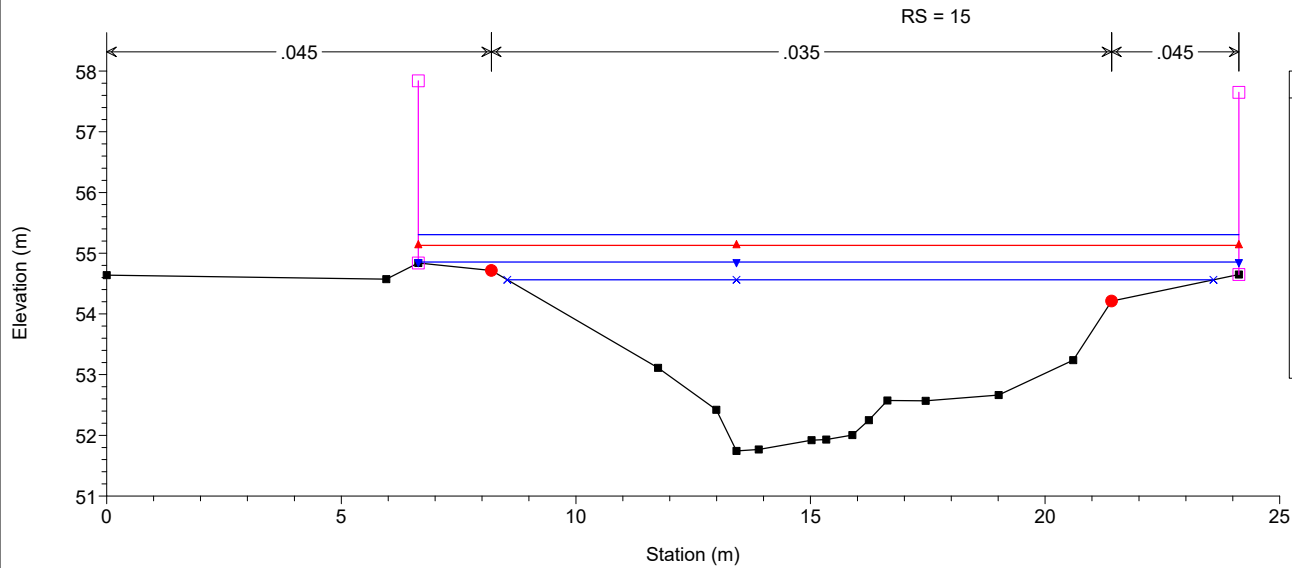




RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

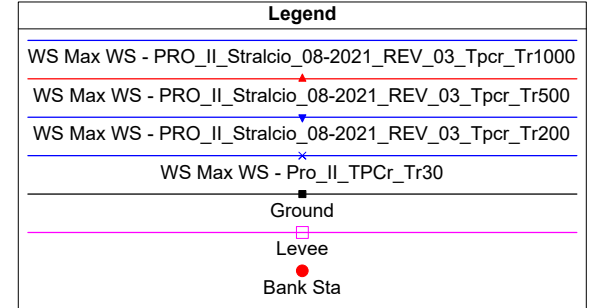
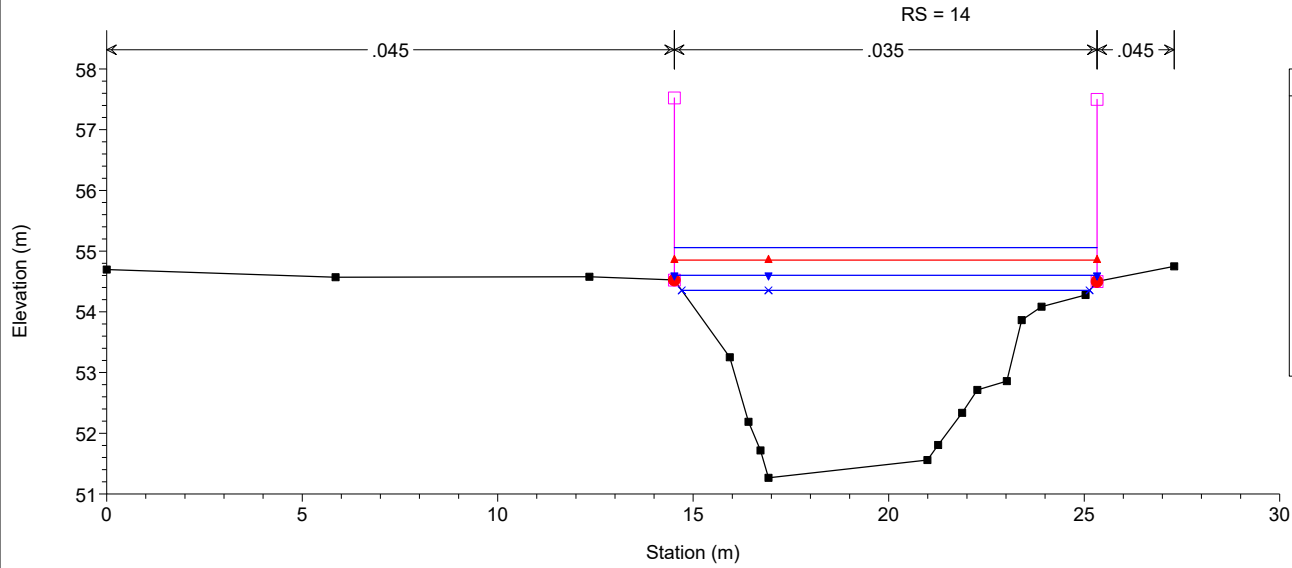


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

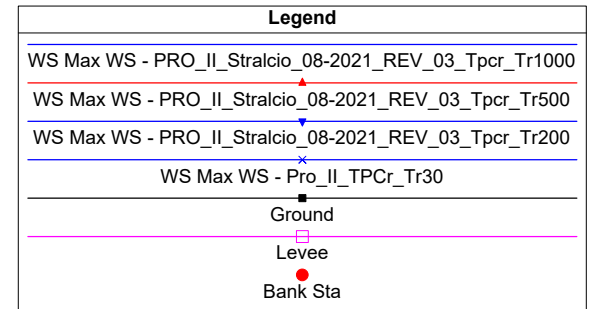
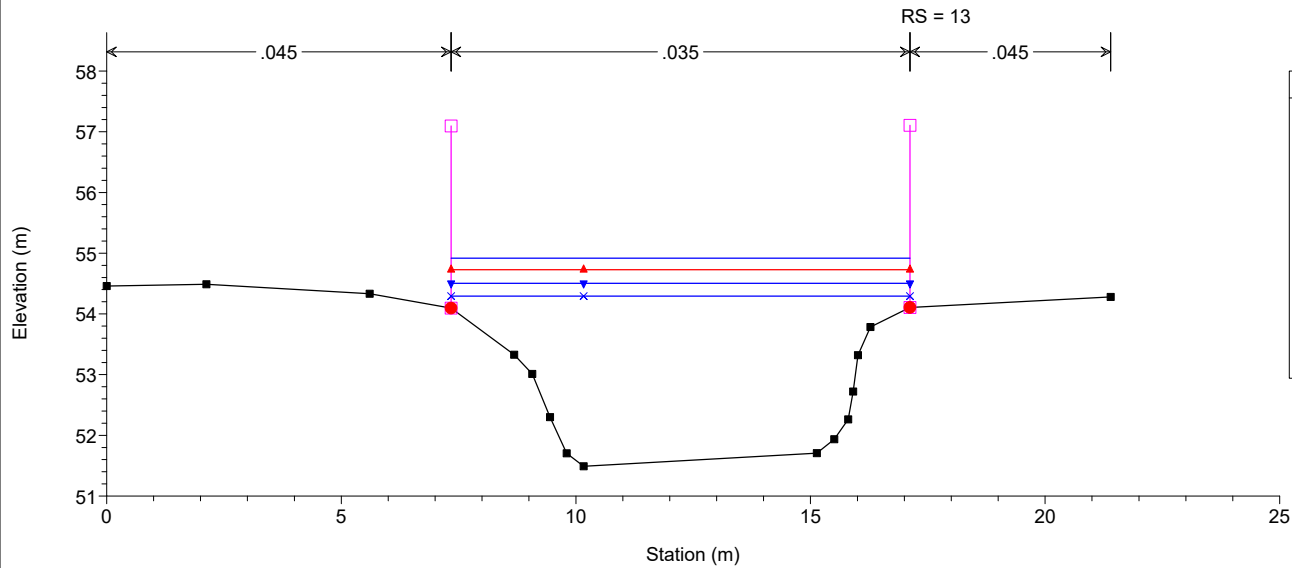




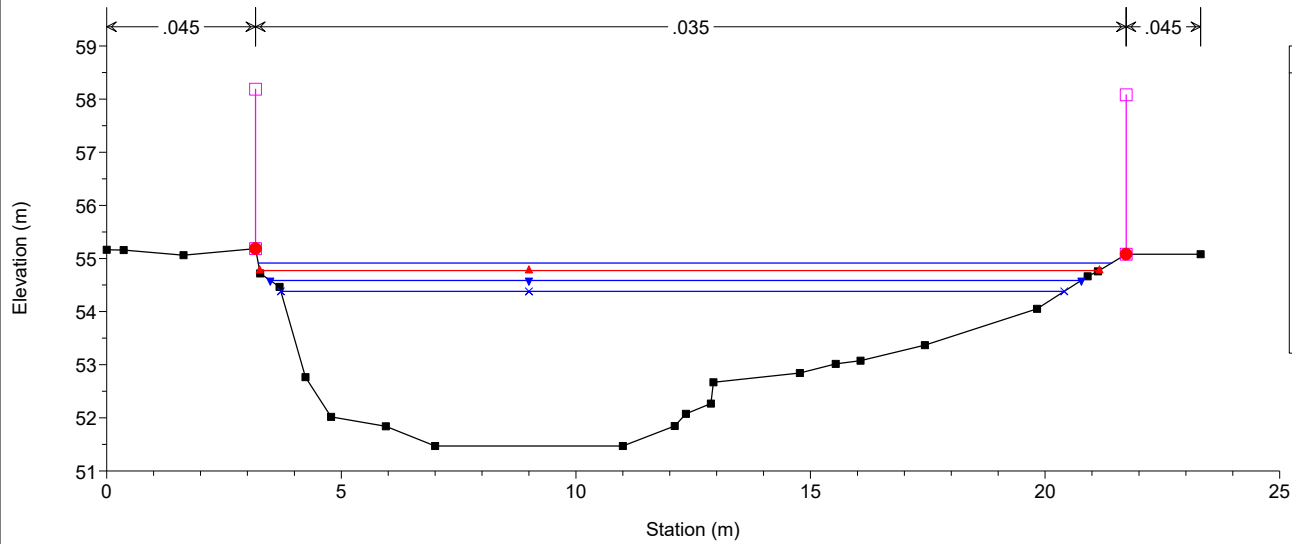
RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

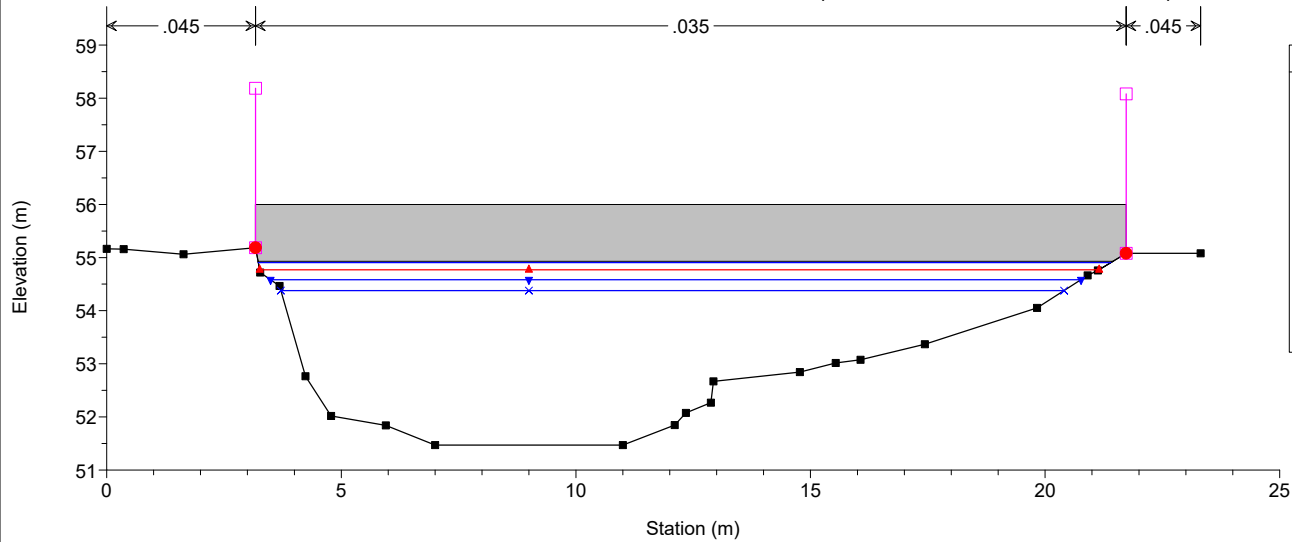


RS = 12.2



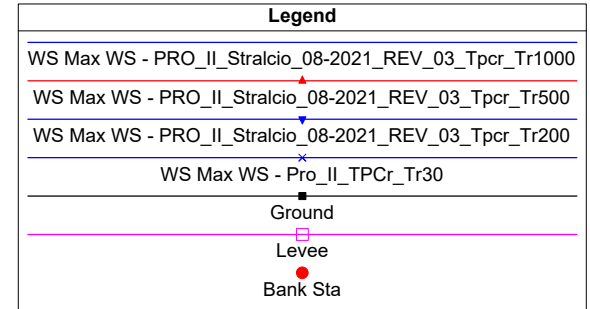
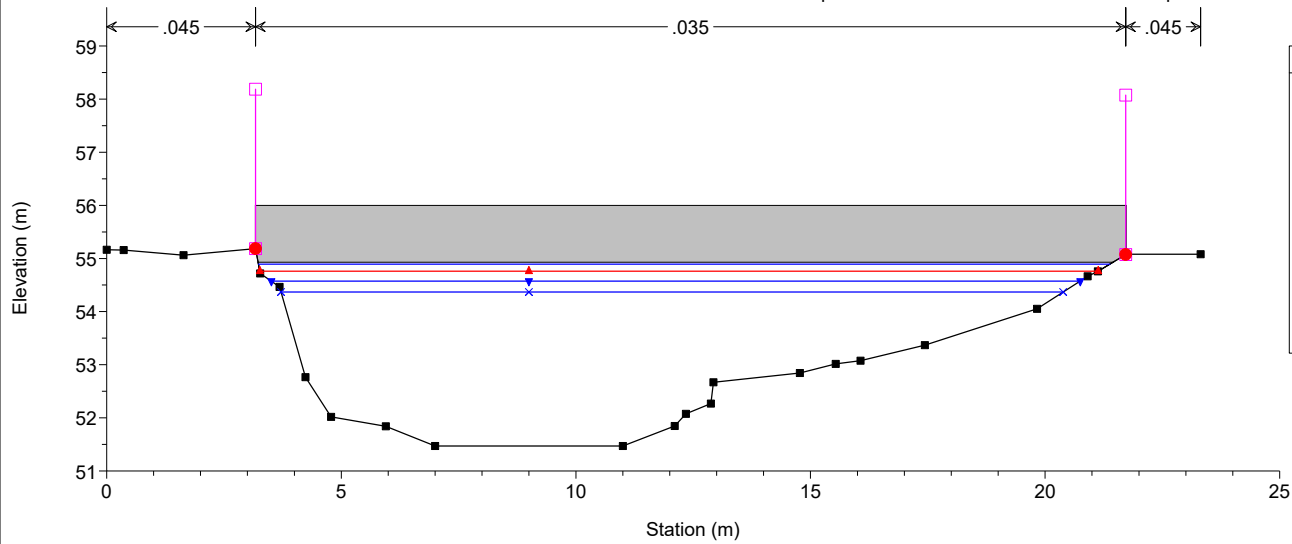
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	—
Ground	■
Levee	□
Bank Sta	●

RS = 12.15 BR Spalletta di contenimento e intervento di ripulitura

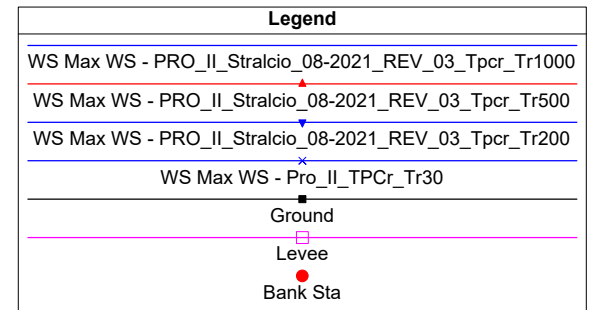
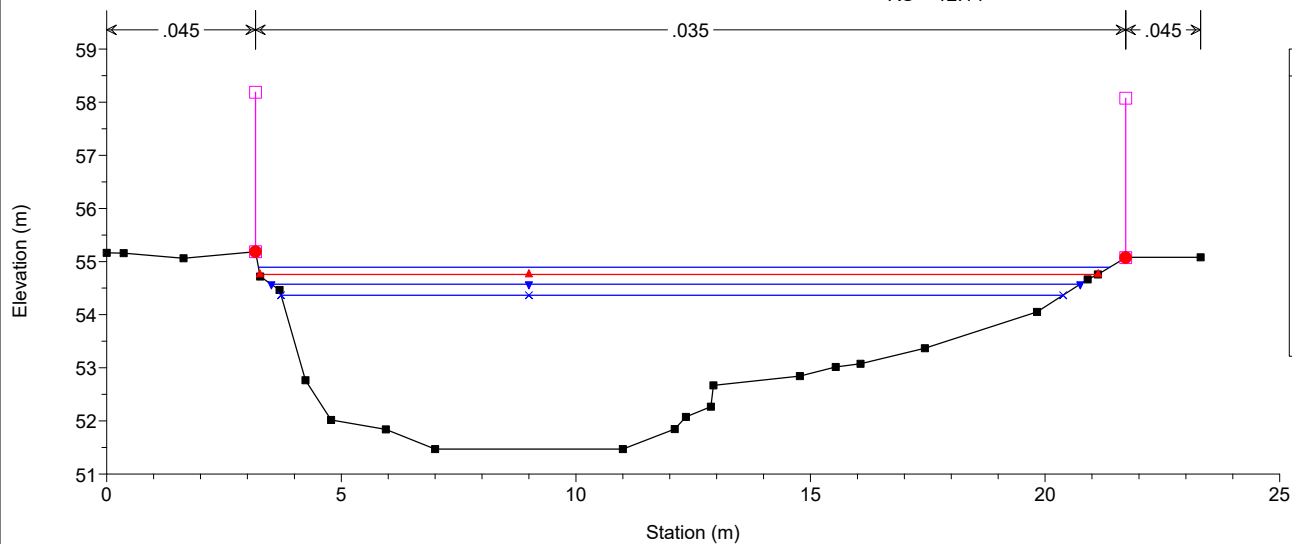


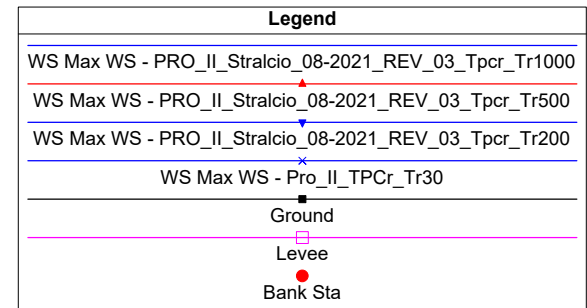
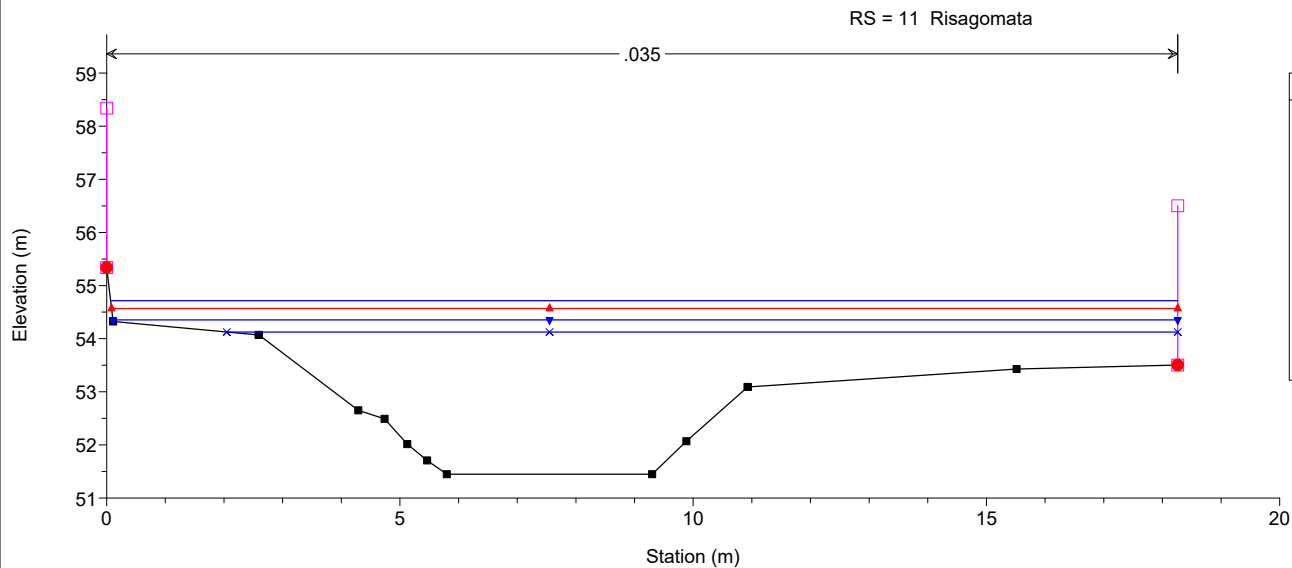
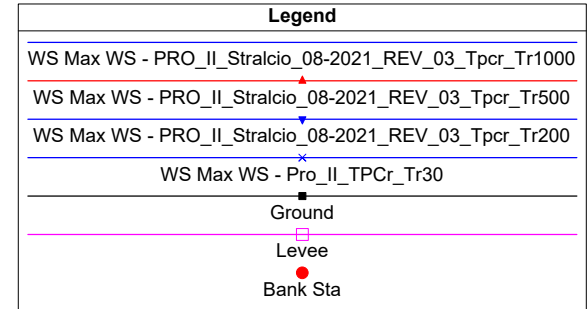
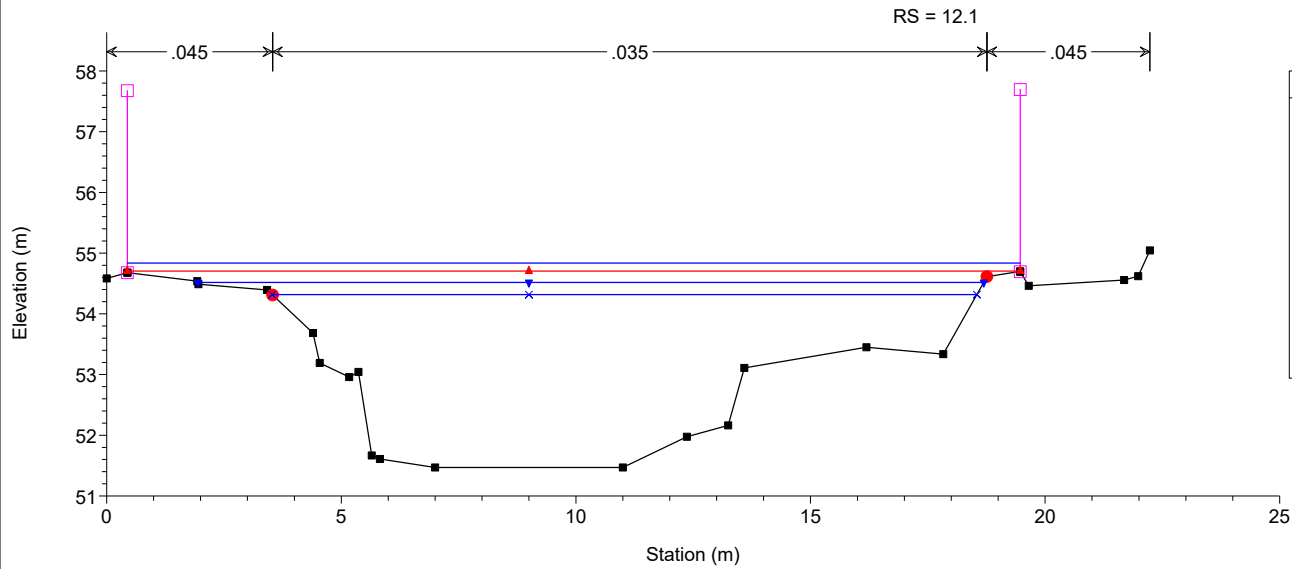
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	—
Ground	■
Levee	□
Bank Sta	●

RS = 12.15 BR Spalletta di contenimento e intervento di ripulitura

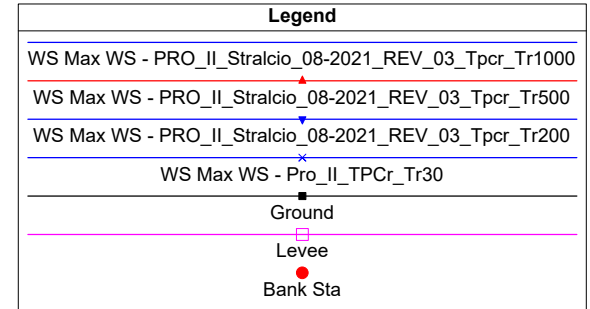
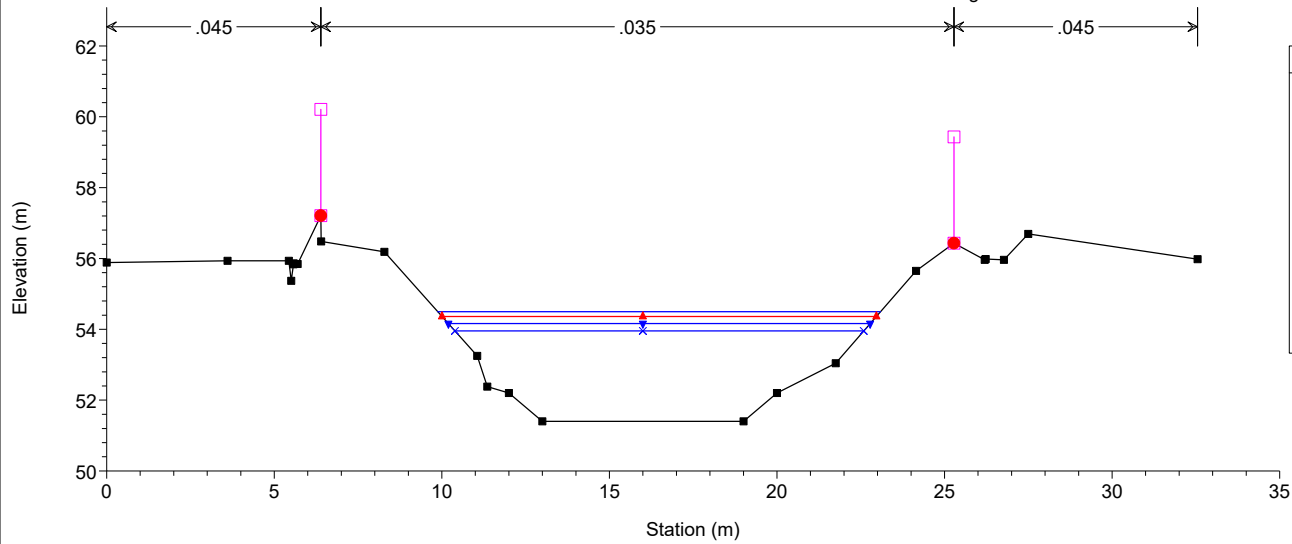


RS = 12.14

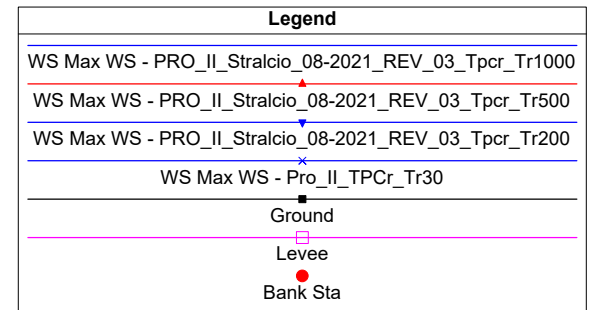
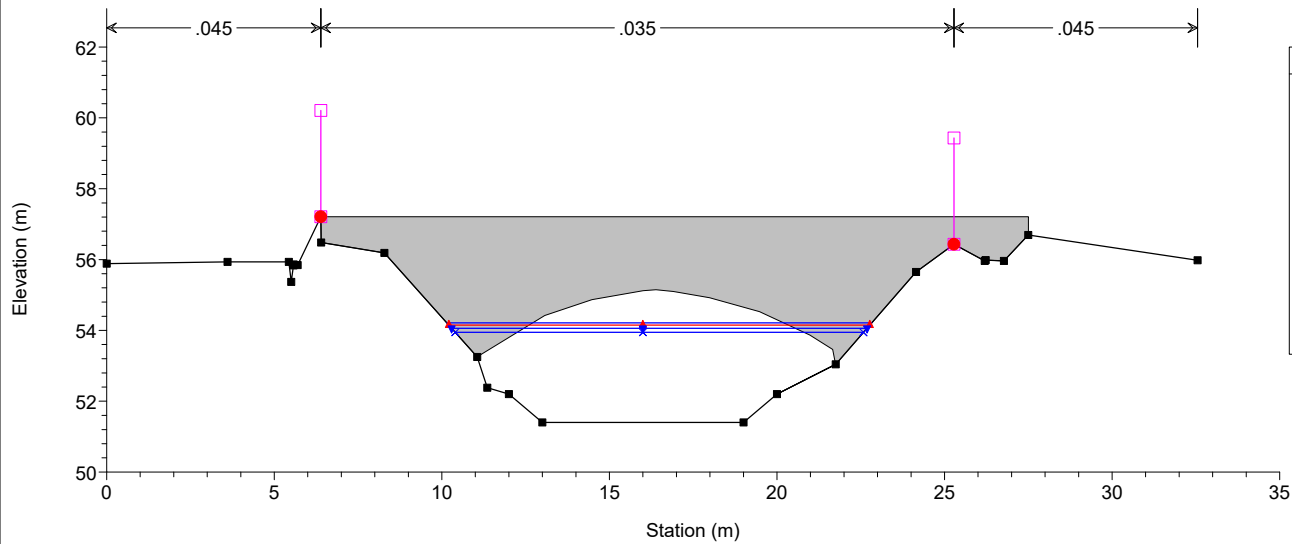


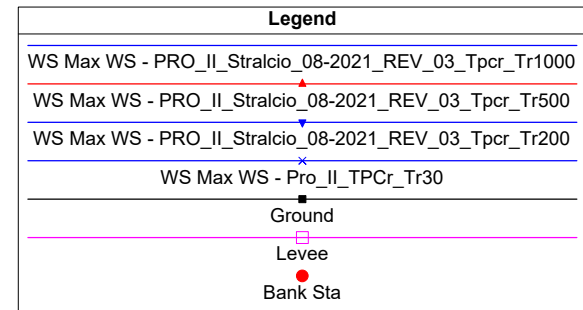
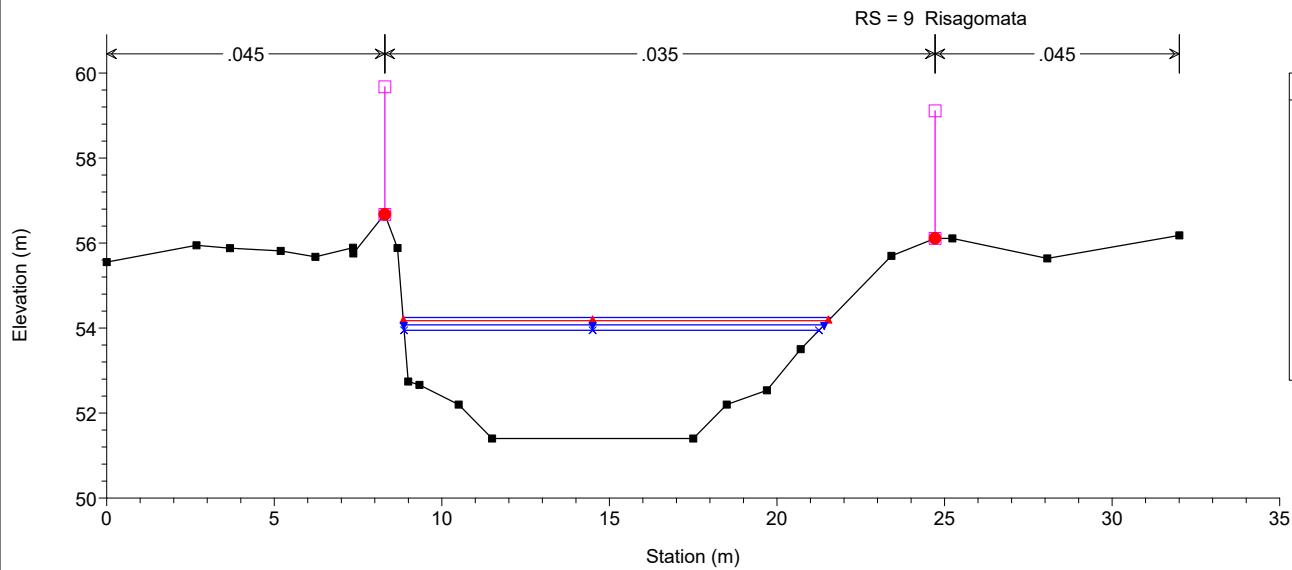
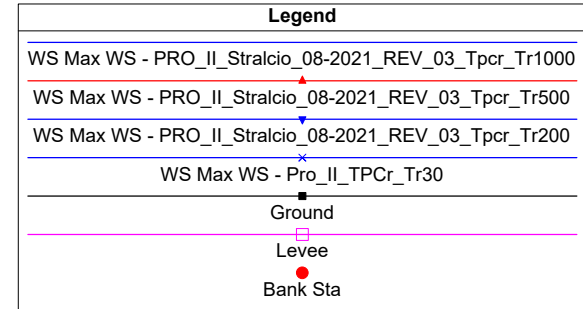
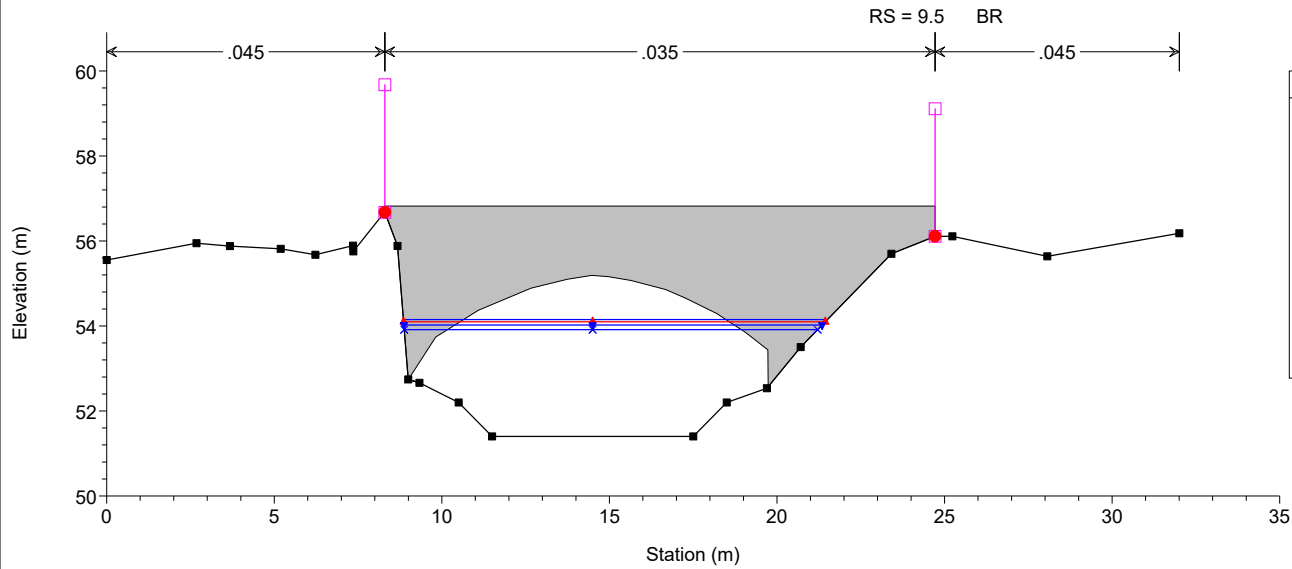


RS = 10 Risagomata

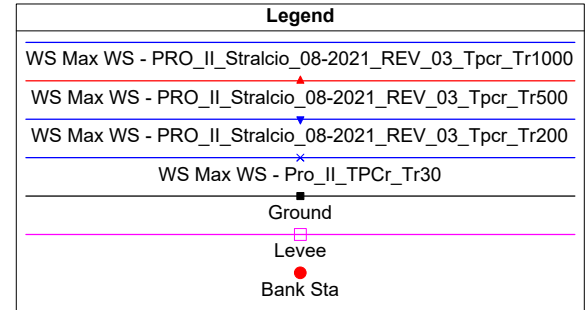
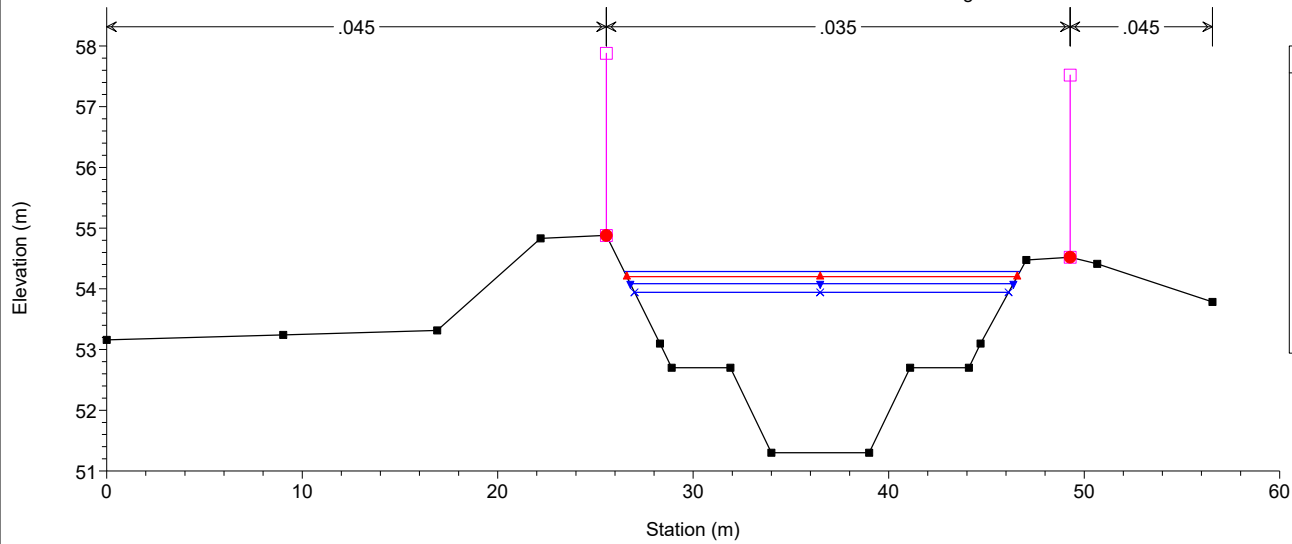


RS = 9.5 BR

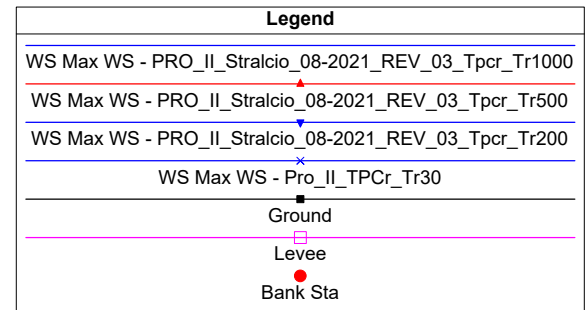
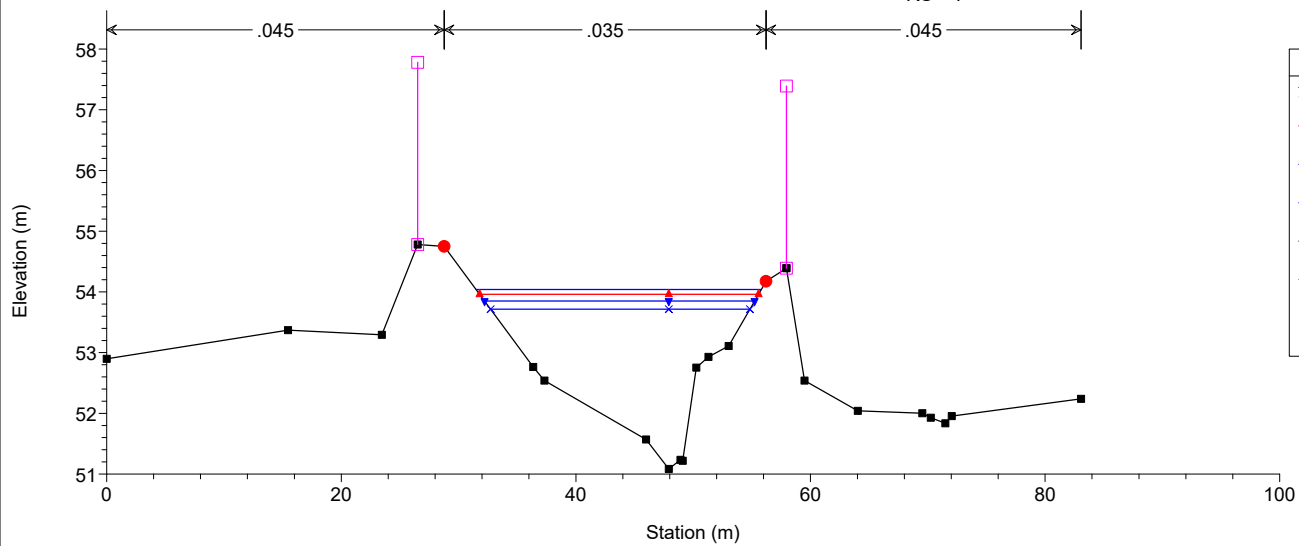


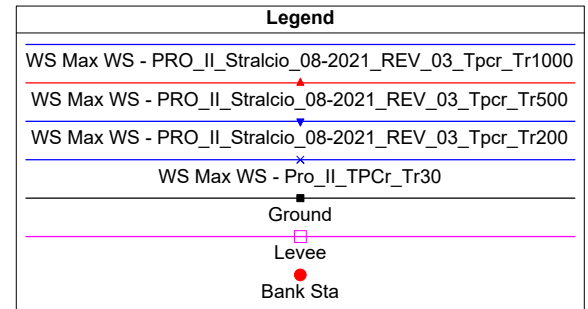
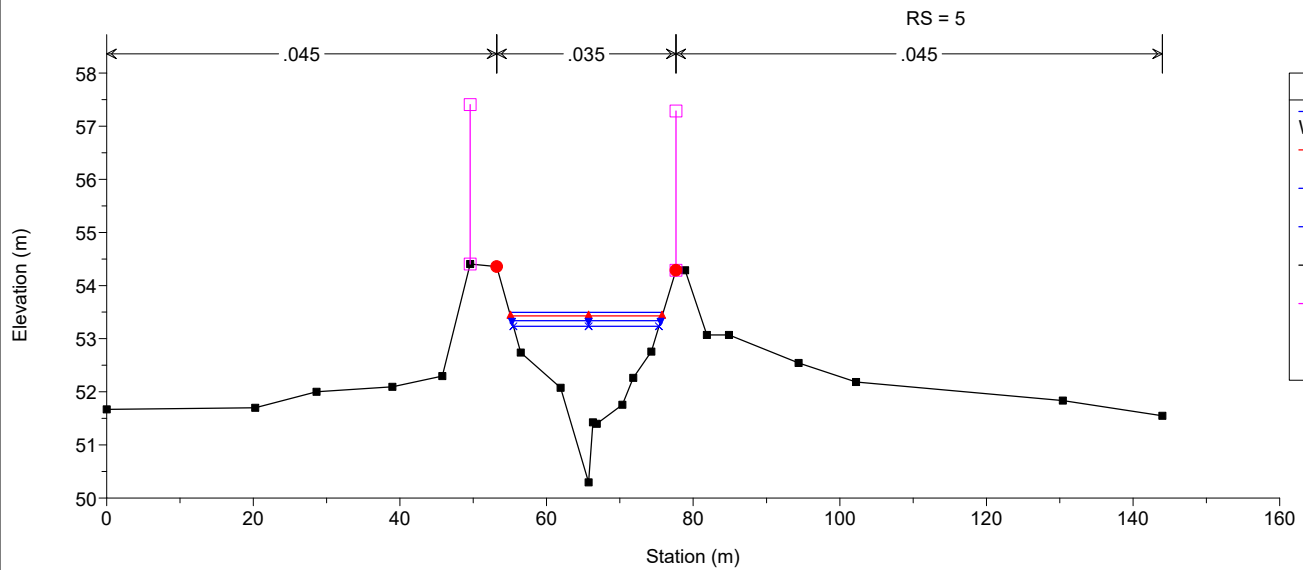
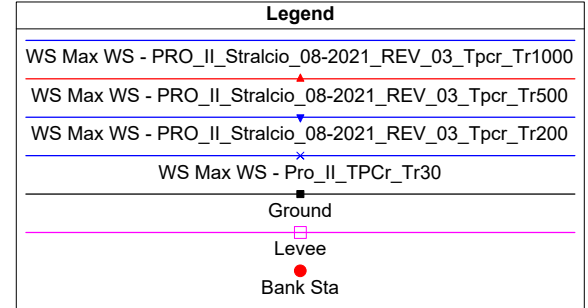
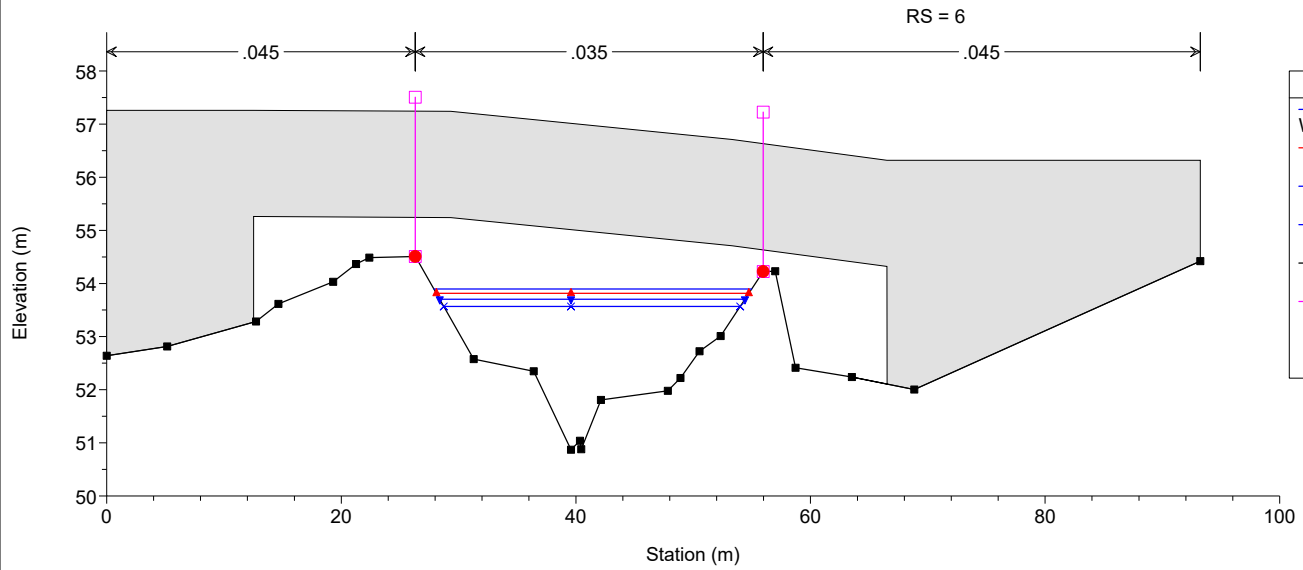


RS = 8 Risagomata

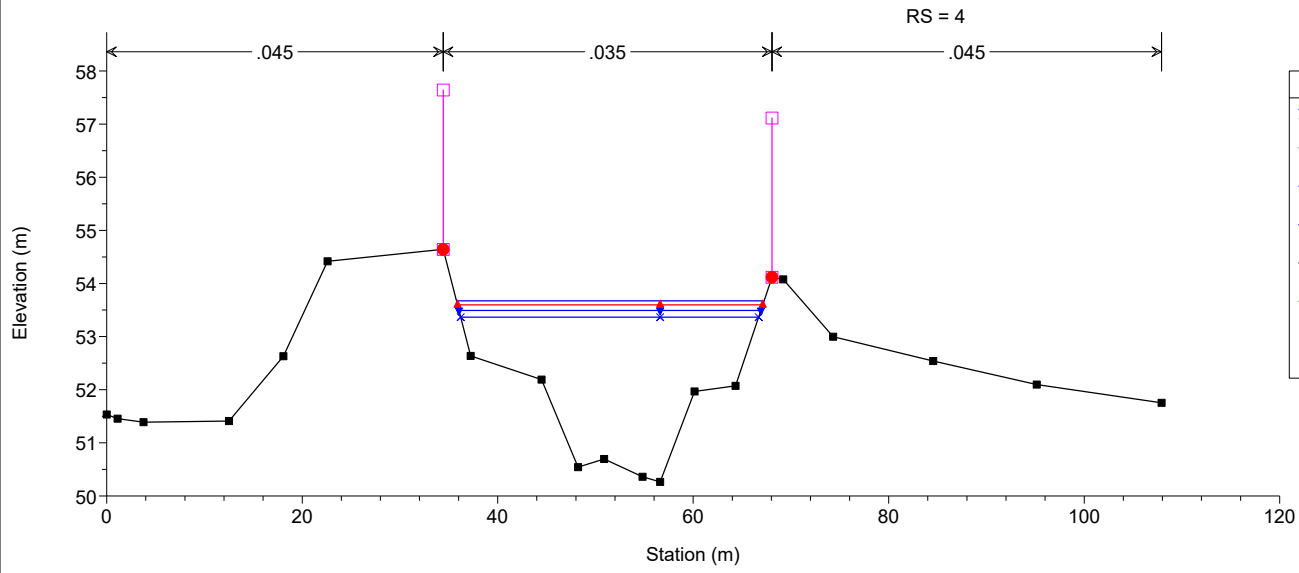


RS = 7









Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

HEC-RAS River: Rio Pietroso Reach: Pietrosavalle Profile: Max WS

Reach	River Sta	Profile	Plan	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
Pietrosavalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	73.08	52.50	56.03		56.22	0.001973	1.91	38.43	21.16	0.43
Pietrosavalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.86	52.50	55.81		56.07	0.003054	2.25	34.20	18.42	0.53
Pietrosavalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.05	52.50	55.66		55.90	0.003035	2.17	31.42	17.83	0.52
Pietrosavalle	23	Max WS	Pro_II_TPCr_Tr30	58.32	52.50	55.48		55.70	0.003000	2.06	28.28	17.15	0.51
Pietrosavalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	73.08	52.50	56.03		56.22	0.001979	1.91	38.46	21.48	0.43
Pietrosavalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.86	52.50	55.81		56.07	0.003072	2.25	34.12	18.40	0.53
Pietrosavalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.05	52.50	55.66		55.90	0.003055	2.17	31.35	17.82	0.52
Pietrosavalle	22.99	Max WS	Pro_II_TPCr_Tr30	58.32	52.50	55.48		55.70	0.003021	2.07	28.22	17.13	0.51
Pietrosavalle	22.9			Lat Struct									
Pietrosavalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	74.01	52.40	56.03		56.19	0.001373	1.78	41.65	23.48	0.36
Pietrosavalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.86	52.40	55.82		56.03	0.001877	2.02	38.13	16.27	0.42
Pietrosavalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.05	52.40	55.68		55.86	0.001748	1.90	35.79	15.83	0.40
Pietrosavalle	22	Max WS	Pro_II_TPCr_Tr30	58.32	52.40	55.50		55.66	0.001590	1.76	33.09	15.31	0.38
Pietrosavalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	80.78	52.30	55.71		56.11	0.001965	2.81	28.72	10.87	0.55
Pietrosavalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.69	52.30	55.57		55.97	0.002041	2.81	27.26	10.67	0.56
Pietrosavalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.05	52.30	55.46		55.81	0.001812	2.61	26.09	10.51	0.53
Pietrosavalle	21.3	Max WS	Pro_II_TPCr_Tr30	58.32	52.30	55.33		55.61	0.001549	2.36	24.69	10.32	0.49
Pietrosavalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.57	52.30	55.58	54.53	56.10	0.002898	3.19	26.22	8.00	0.56
Pietrosavalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.87	52.30	55.51	54.41	55.97	0.002594	2.99	25.68	8.00	0.53
Pietrosavalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.04	52.30	55.42	54.25	55.80	0.002203	2.73	24.94	8.00	0.49
Pietrosavalle	21.2	Max WS	Pro_II_TPCr_Tr30	58.32	52.30	55.30	54.05	55.60	0.001801	2.43	23.99	8.00	0.45
Pietrosavalle	21.15			Bridge									
Pietrosavalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.45	52.30	55.50		56.04	0.003091	3.26	25.58	8.00	0.58
Pietrosavalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.86	52.30	55.45		55.92	0.002739	3.05	25.18	8.00	0.55
Pietrosavalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.05	52.30	55.37		55.76	0.002296	2.77	24.57	8.00	0.50
Pietrosavalle	21.1	Max WS	Pro_II_TPCr_Tr30	58.32	52.30	55.27		55.57	0.001857	2.46	23.72	8.00	0.46
Pietrosavalle	21.09			Lat Struct									
Pietrosavalle	21.08			Lat Struct									
Pietrosavalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.45	52.30	55.54		56.02	0.002468	3.08	27.08	10.74	0.62
Pietrosavalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.86	52.30	55.48		55.91	0.002236	2.91	26.44	10.65	0.59
Pietrosavalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.05	52.30	55.39		55.75	0.001933	2.67	25.51	10.52	0.55
Pietrosavalle	20.7	Max WS	Pro_II_TPCr_Tr30	58.32	52.30	55.27		55.57	0.001623	2.40	24.30	10.35	0.50
Pietrosavalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.45	52.30	55.52		55.98	0.004825	3.03	28.71	16.95	0.64
Pietrosavalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.86	52.30	55.45		55.87	0.004514	2.88	27.59	16.95	0.61
Pietrosavalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.05	52.30	55.36		55.72	0.004050	2.67	26.02	16.67	0.58
Pietrosavalle	20	Max WS	Pro_II_TPCr_Tr30	58.32	52.30	55.24		55.54	0.003532	2.43	24.18	14.21	0.54

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	70.39	52.19	55.27		55.73	0.004788	3.03	24.27	11.52	0.63
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	66.56	52.19	55.15		55.61	0.005031	3.02	22.95	11.52	0.65
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	60.52	52.19	55.01		55.45	0.005154	2.95	21.31	11.52	0.65
Pietrosovalle	19	Max WS	Pro_II_TPCr_Tr30	54.46	52.19	54.86		55.28	0.005340	2.88	19.56	11.52	0.66
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	74.27	51.89	55.25		55.65	0.005046	2.86	27.66	15.59	0.64
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	68.99	51.89	55.14		55.53	0.005315	2.83	25.84	15.59	0.66
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	61.57	51.89	55.01		55.38	0.005368	2.73	23.82	15.59	0.65
Pietrosovalle	18.2	Max WS	Pro_II_TPCr_Tr30	54.84	51.89	54.85		55.21	0.005786	2.69	21.43	15.59	0.67
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	72.56	51.70	55.35		55.64	0.002979	2.76	36.92	22.79	0.48
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	68.14	51.70	55.20		55.52	0.003375	2.85	33.47	22.79	0.51
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	59.89	51.70	55.05		55.36	0.003363	2.76	30.18	22.79	0.50
Pietrosovalle	18.1	Max WS	Pro_II_TPCr_Tr30	54.24	51.70	54.86		55.21	0.003989	2.87	25.72	22.79	0.54
Pietrosovalle	18.09			Lat Struct									
Pietrosovalle	18.08			Lat Struct									
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	67.18	52.19	55.28		55.63	0.004105	2.65	25.36	11.66	0.57
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	63.83	52.19	55.12		55.49	0.004616	2.71	23.54	11.66	0.61
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	57.11	52.19	55.00		55.34	0.004438	2.58	22.13	11.66	0.60
Pietrosovalle	17	Max WS	Pro_II_TPCr_Tr30	52.98	52.19	54.81		55.17	0.005257	2.66	19.88	11.66	0.65
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	70.08	51.93	55.31		55.57	0.002546	2.26	31.02	12.67	0.46
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	66.01	51.93	55.18		55.44	0.002629	2.24	29.45	12.67	0.47
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	59.46	51.93	55.06		55.29	0.002511	2.13	27.86	12.67	0.46
Pietrosovalle	16	Max WS	Pro_II_TPCr_Tr30	54.62	51.93	54.85		55.09	0.002830	2.16	25.27	12.67	0.49
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	64.05	51.74	55.31		55.49	0.001706	1.95	34.89	17.49	0.40
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	64.20	51.74	55.13		55.36	0.002245	2.13	31.81	17.49	0.46
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	62.64	51.74	54.85		55.14	0.003411	2.40	26.99	17.49	0.55
Pietrosovalle	15	Max WS	Pro_II_TPCr_Tr30	57.19	51.74	54.56		54.91	0.004802	2.60	22.27	15.05	0.64
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	70.88	51.26	55.06		55.41	0.003783	2.62	27.10	10.81	0.53
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	69.38	51.26	54.85		55.25	0.004633	2.79	24.90	10.81	0.59
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	65.11	51.26	54.60		55.04	0.005716	2.93	22.19	10.81	0.65
Pietrosovalle	14	Max WS	Pro_II_TPCr_Tr30	57.63	51.26	54.35		54.80	0.006399	2.95	19.55	10.43	0.69
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	74.25	51.49	54.92		55.35	0.004647	2.91	25.51	9.78	0.58
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	71.66	51.49	54.73		55.20	0.005369	3.03	23.65	9.78	0.62
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	66.35	51.49	54.50		54.99	0.006085	3.09	21.46	9.78	0.67
Pietrosovalle	13	Max WS	Pro_II_TPCr_Tr30	58.03	51.49	54.29		54.75	0.006257	2.99	19.39	9.78	0.68
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.44	51.47	54.91	53.76	55.12	0.002056	2.03	41.16	18.19	0.43
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.64	51.47	54.77	53.67	54.97	0.002086	1.98	38.61	17.90	0.43

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.10	51.47	54.59	53.54	54.78	0.002109	1.93	35.33	17.29	0.43
Pietrosovalle	12.2	Max WS	Pro_II_TPCr_Tr30	58.30	51.47	54.38	53.39	54.55	0.002078	1.83	31.84	16.70	0.42
Pietrosovalle	12.15		Bridge										
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.44	51.47	54.89		55.11	0.002113	2.05	40.77	18.15	0.44
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.64	51.47	54.76		54.96	0.002126	2.00	38.36	17.87	0.44
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.10	51.47	54.57		54.76	0.002151	1.94	35.09	17.24	0.43
Pietrosovalle	12.14	Max WS	Pro_II_TPCr_Tr30	58.30	51.47	54.37		54.54	0.002123	1.84	31.61	16.67	0.43
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.44	51.47	54.84		55.11	0.002746	2.32	36.77	19.03	0.48
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.64	51.47	54.70		54.97	0.002839	2.27	34.23	19.03	0.49
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.10	51.47	54.52		54.77	0.002988	2.21	30.95	16.75	0.49
Pietrosovalle	12.1	Max WS	Pro_II_TPCr_Tr30	58.30	51.47	54.32		54.54	0.003041	2.10	27.78	15.02	0.49
Pietrosovalle	12.08		Lat Struct										
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.35	51.45	54.71		55.04	0.004396	2.53	33.00	18.19	0.60
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.65	51.45	54.57		54.89	0.004828	2.53	30.35	18.18	0.62
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.08	51.45	54.35		54.69	0.005871	2.58	26.43	18.16	0.68
Pietrosovalle	11	Max WS	Pro_II_TPCr_Tr30	58.29	51.45	54.13		54.47	0.006340	2.59	22.50	16.21	0.70
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.26	51.40	54.50	53.63	54.87	0.003626	2.69	30.92	13.21	0.56
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.65	51.40	54.36	53.53	54.72	0.003627	2.63	29.14	12.96	0.56
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.06	51.40	54.16	53.39	54.50	0.003713	2.56	26.55	12.58	0.56
Pietrosovalle	10	Max WS	Pro_II_TPCr_Tr30	58.29	51.40	53.96	53.22	54.26	0.003620	2.43	24.01	12.20	0.55
Pietrosovalle	9.5		Bridge										
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.26	51.40	54.25		54.68	0.004604	2.91	28.57	12.78	0.62
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.64	51.40	54.17		54.57	0.004284	2.77	27.64	12.68	0.60
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.06	51.40	54.07		54.41	0.003865	2.58	26.36	12.55	0.57
Pietrosovalle	9	Max WS	Pro_II_TPCr_Tr30	58.29	51.40	53.95		54.23	0.003381	2.35	24.79	12.38	0.53
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.24	51.30	54.29		54.53	0.002843	2.19	37.98	20.24	0.51
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.64	51.30	54.20		54.43	0.002750	2.11	36.29	19.97	0.50
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.03	51.30	54.08		54.29	0.002623	2.00	33.99	19.59	0.49
Pietrosovalle	8	Max WS	Pro_II_TPCr_Tr30	58.29	51.30	53.94		54.12	0.002464	1.87	31.24	19.13	0.47
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.21	51.09	54.04		54.30	0.003790	2.25	36.99	24.33	0.58
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.63	51.09	53.96		54.20	0.003733	2.19	35.05	23.78	0.58
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.02	51.09	53.85		54.07	0.003643	2.10	32.45	23.02	0.56
Pietrosovalle	7	Max WS	Pro_II_TPCr_Tr30	58.29	51.09	53.71		53.91	0.003515	1.98	29.42	22.10	0.55
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.19	50.87	53.90	53.23	54.09	0.002755	1.96	42.37	27.09	0.50
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.61	50.87	53.81	53.16	54.00	0.002725	1.91	40.19	26.64	0.50
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	68.02	50.87	53.70	53.07	53.87	0.002677	1.83	37.26	26.02	0.49

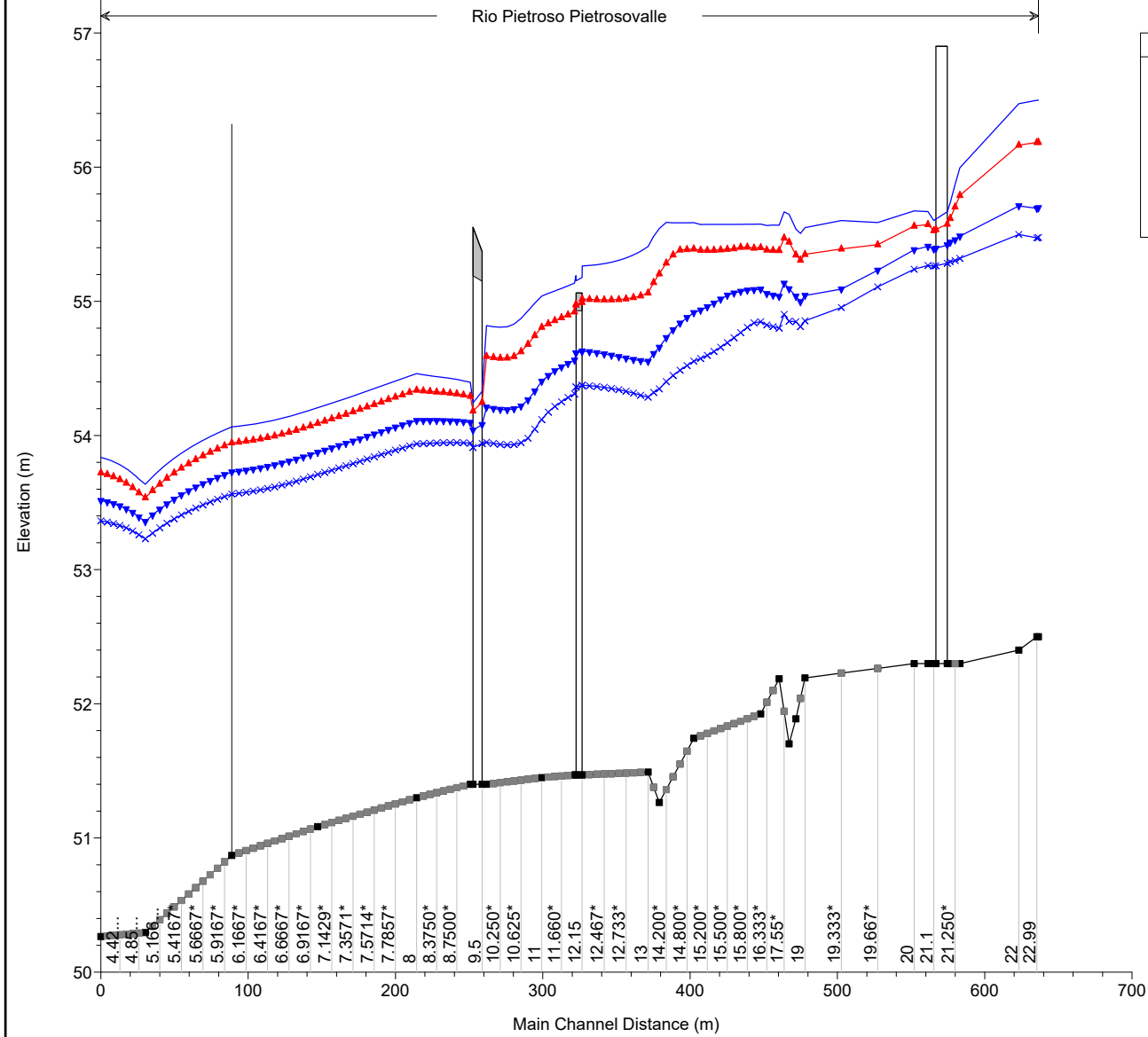
HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosovalle	6	Max WS	Pro_II_TPCr_Tr30	58.28	50.87	53.57	52.97	53.72	0.002611	1.72	33.81	25.27	0.48
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.07	50.30	53.49		53.89	0.006514	2.78	29.87	20.95	0.74
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.53	50.30	53.43		53.80	0.006356	2.69	28.49	20.67	0.73
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	67.98	50.30	53.34		53.67	0.006104	2.55	26.65	20.29	0.71
Pietrosovalle	5	Max WS	Pro_II_TPCr_Tr30	58.20	50.30	53.23		53.52	0.005724	2.37	24.53	19.85	0.68
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr1000	83.07	50.27	53.67	52.36	53.76	0.000883	1.31	63.34	31.47	0.30
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr500	76.56	50.27	53.60	52.28	53.68	0.000844	1.26	60.92	31.23	0.29
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpccr_Tr200	67.99	50.27	53.49	52.16	53.56	0.000786	1.18	57.67	30.89	0.28
Pietrosovalle	4	Max WS	Pro_II_TPCr_Tr30	58.24	50.27	53.37	51.95	53.43	0.000711	1.08	53.83	30.48	0.26

**Rio Pietroso – Tratto di valle (a valle confluenza con Rio Arnese - sez. 23.2 – sez. 4)**

**Verifiche idrauliche moto vario stato di progetto**

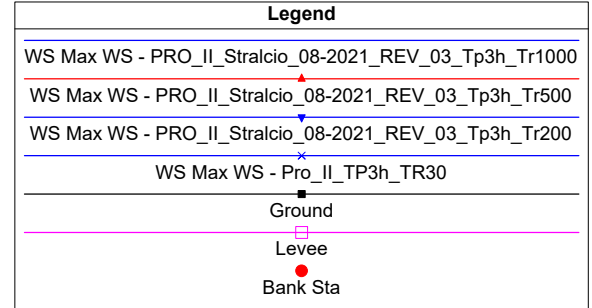
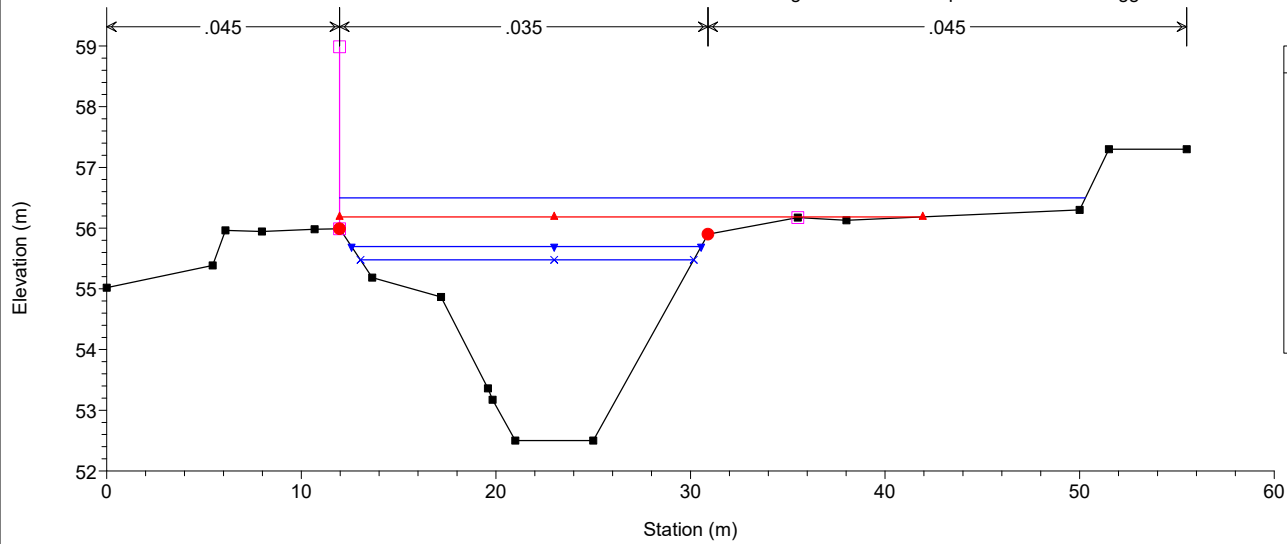
**Tr=1000, 500, 200 e Tr=30 anni – Tp 3 ore**



Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	▼
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WS Max WS - Pro_II_TP3h_TR30	■
Ground	■

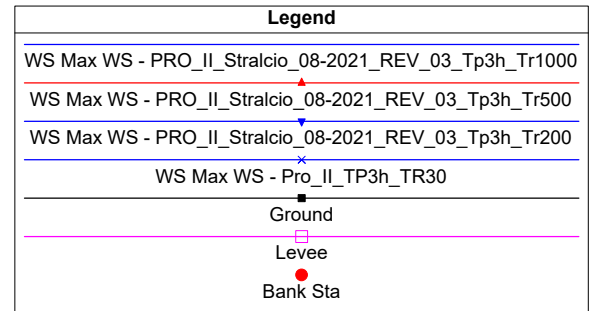
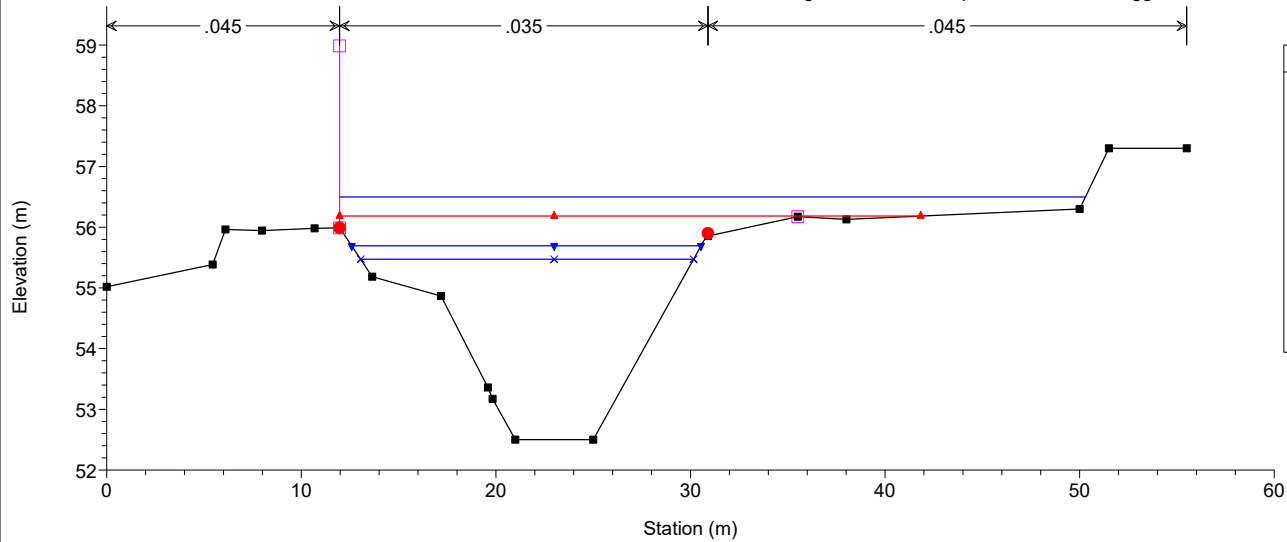
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 23 Con arginetto in destra a protezione di via Ruggero Grieco



RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

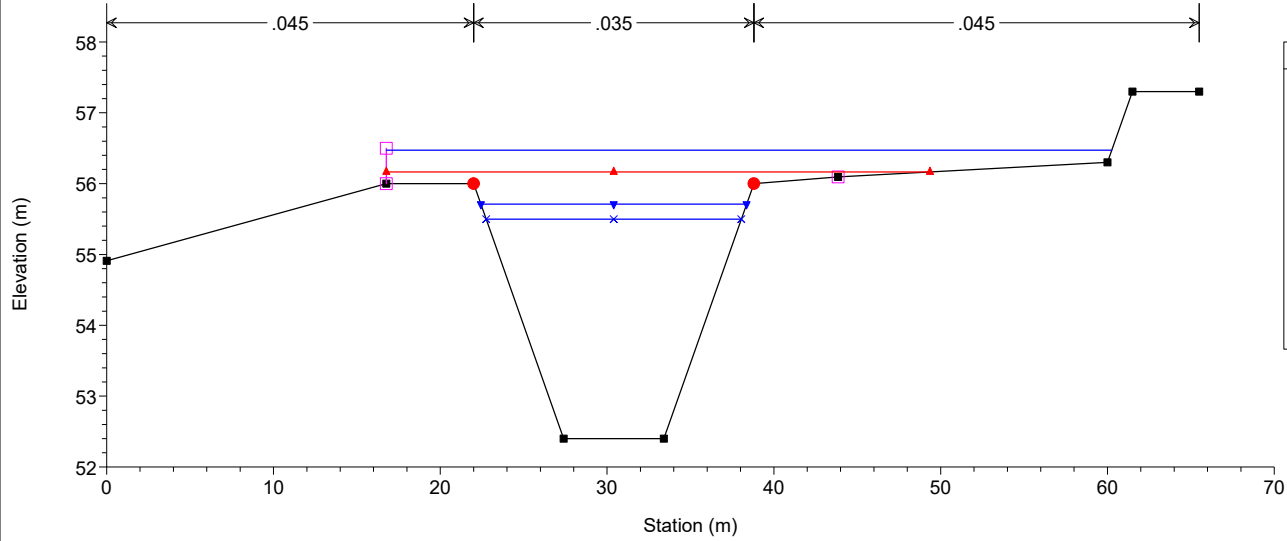
RS = 22.99 Con arginetto in destra a protezione di via Ruggero Grieco





RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

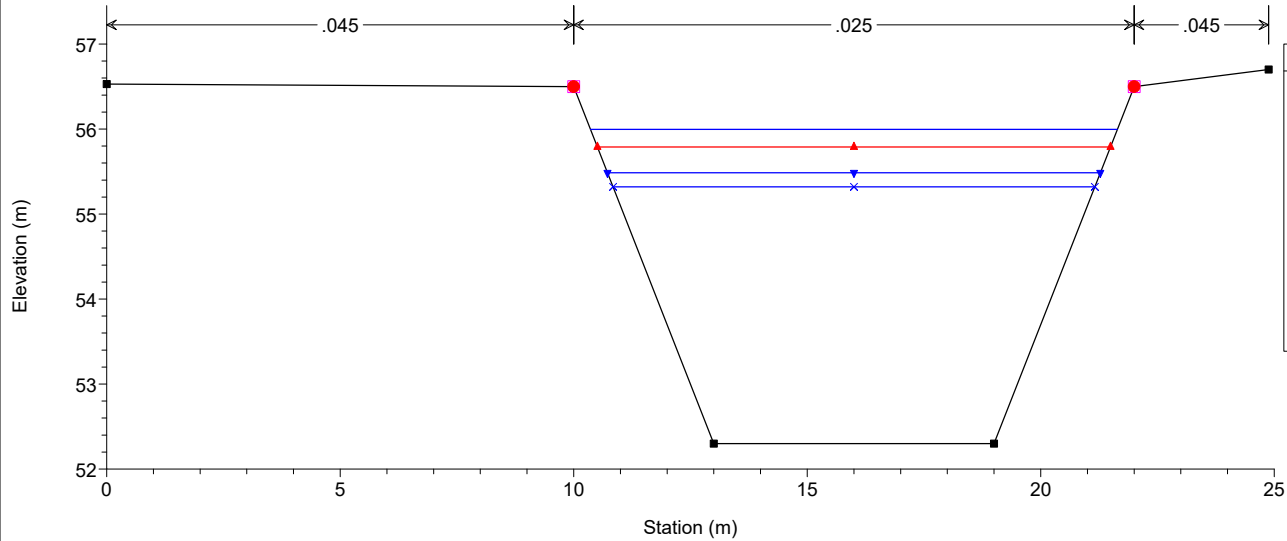
RS = 22 Risagomatura PRO e arginetto in destra a protezione di via Ruggie



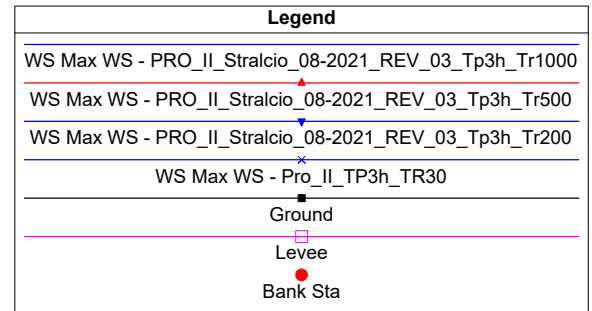
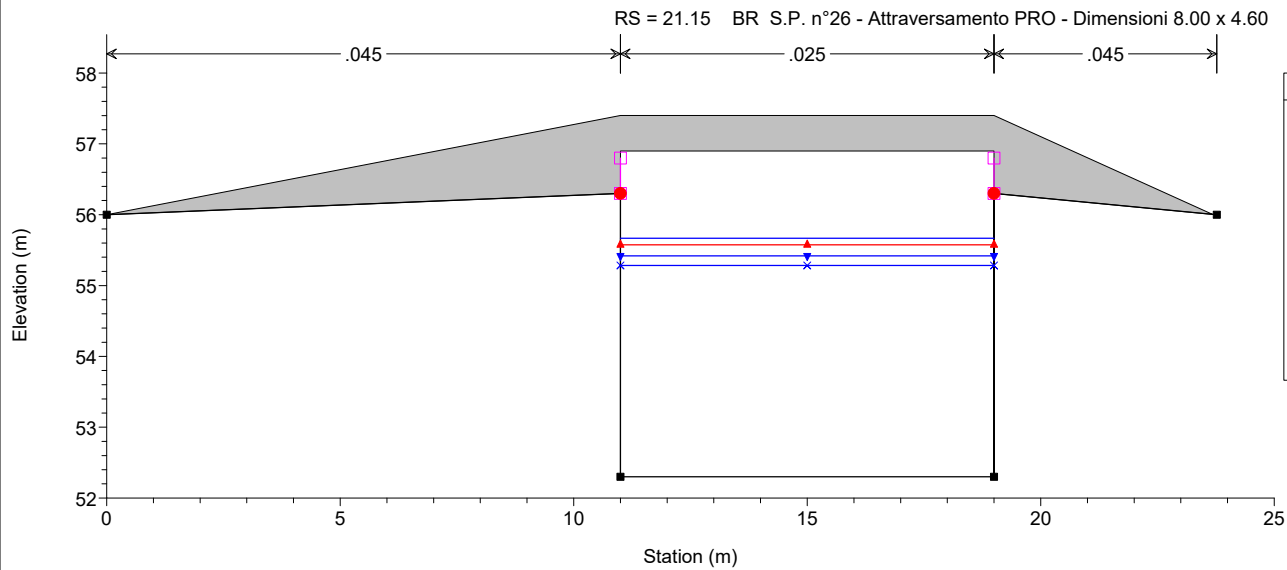
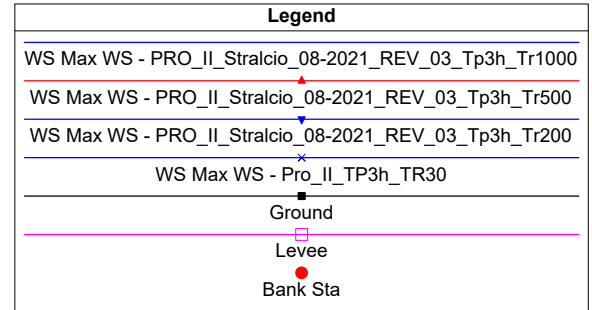
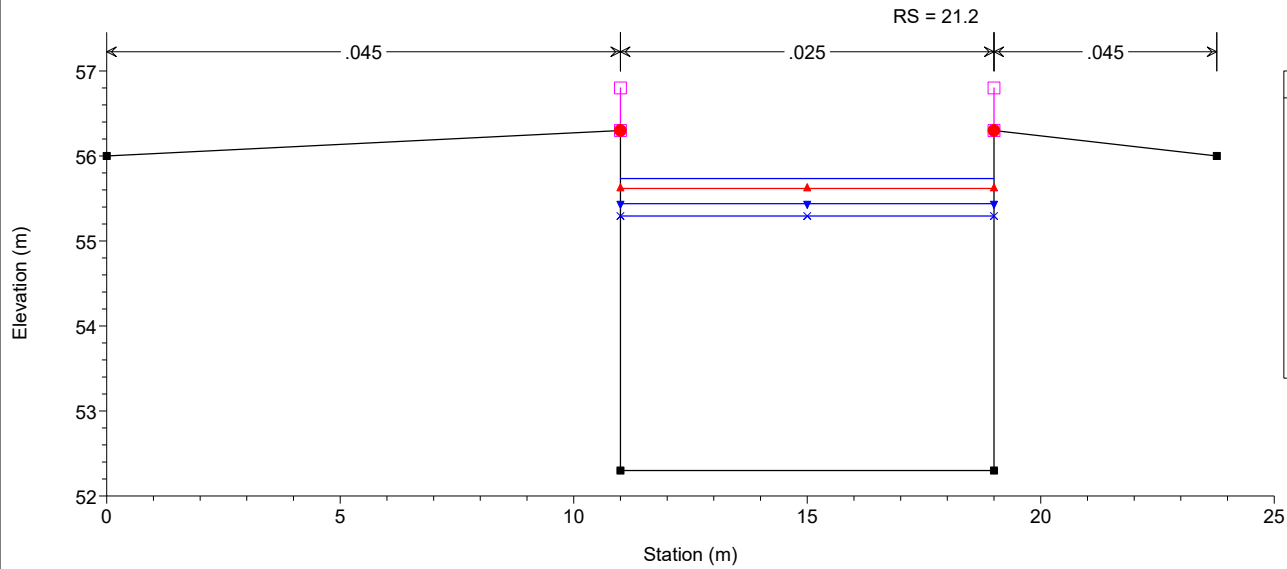
Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	×
WS Max WS - Pro_II_TP3h_TR30	■
Ground	—
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

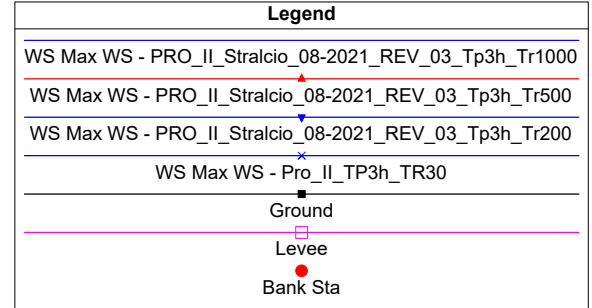
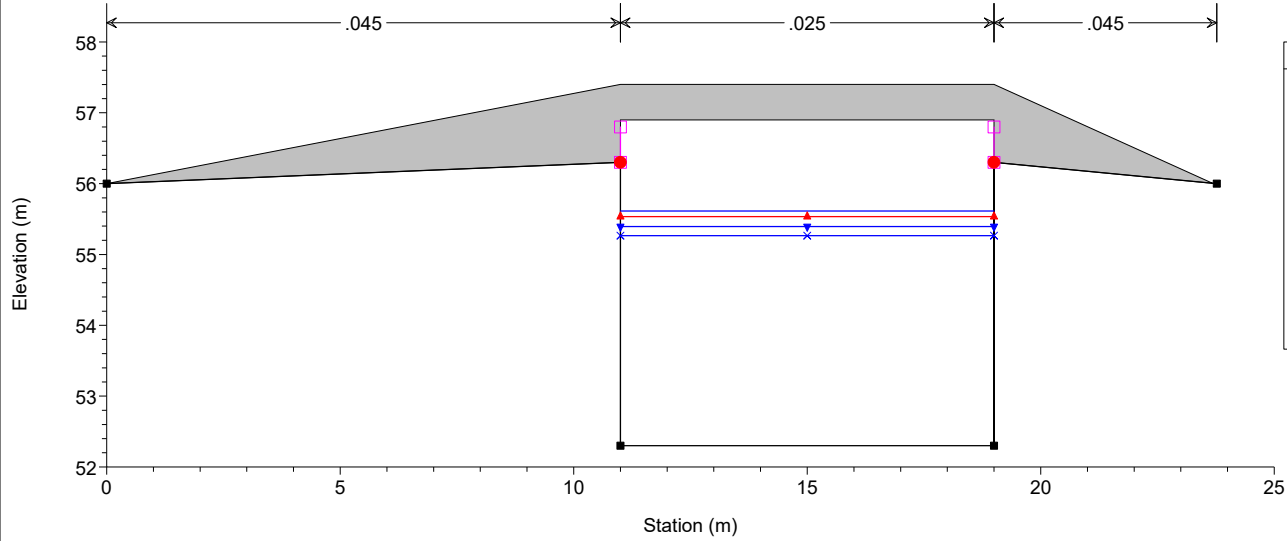
RS = 21.3 Ausiliaria monte attraversamento PRO S.P.



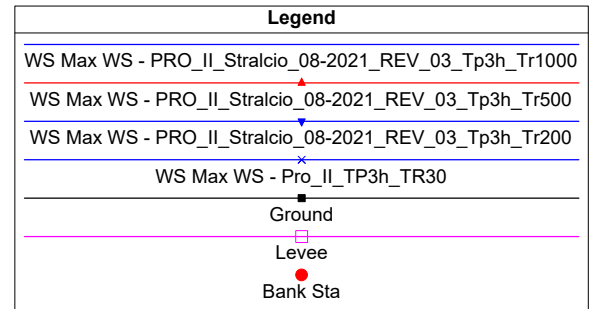
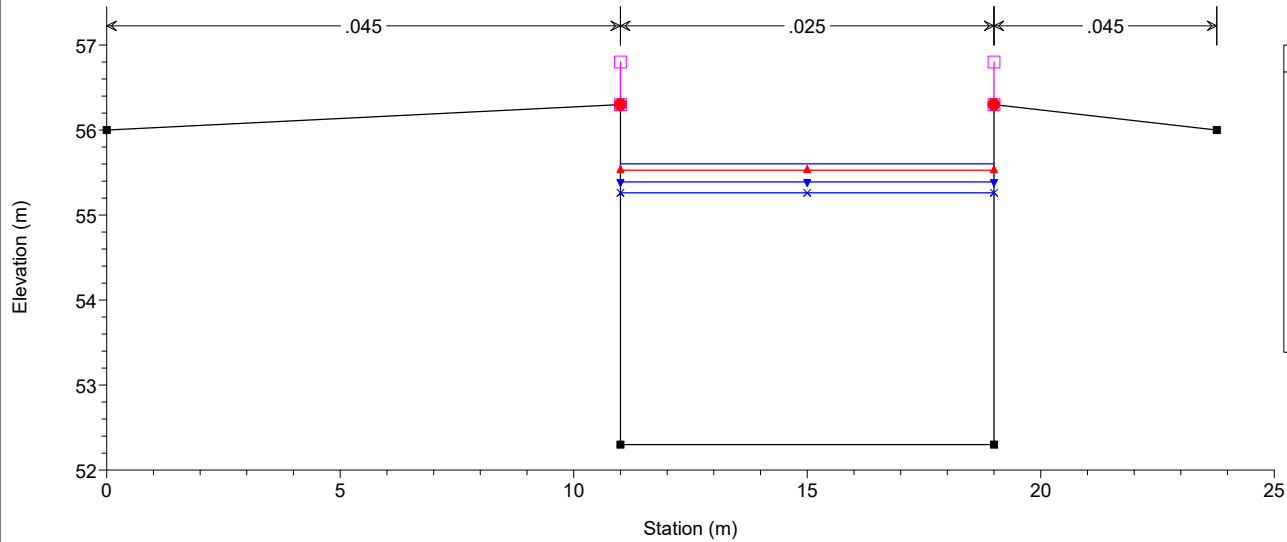
Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	×
WS Max WS - Pro_II_TP3h_TR30	■
Ground	—
Levee	□
Bank Sta	●



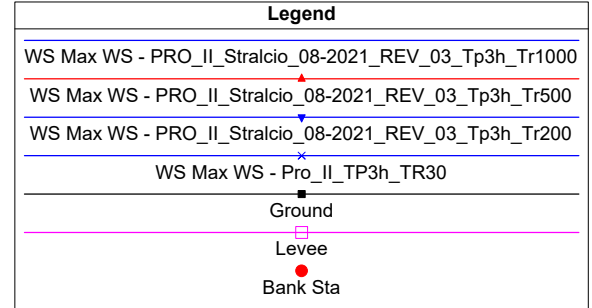
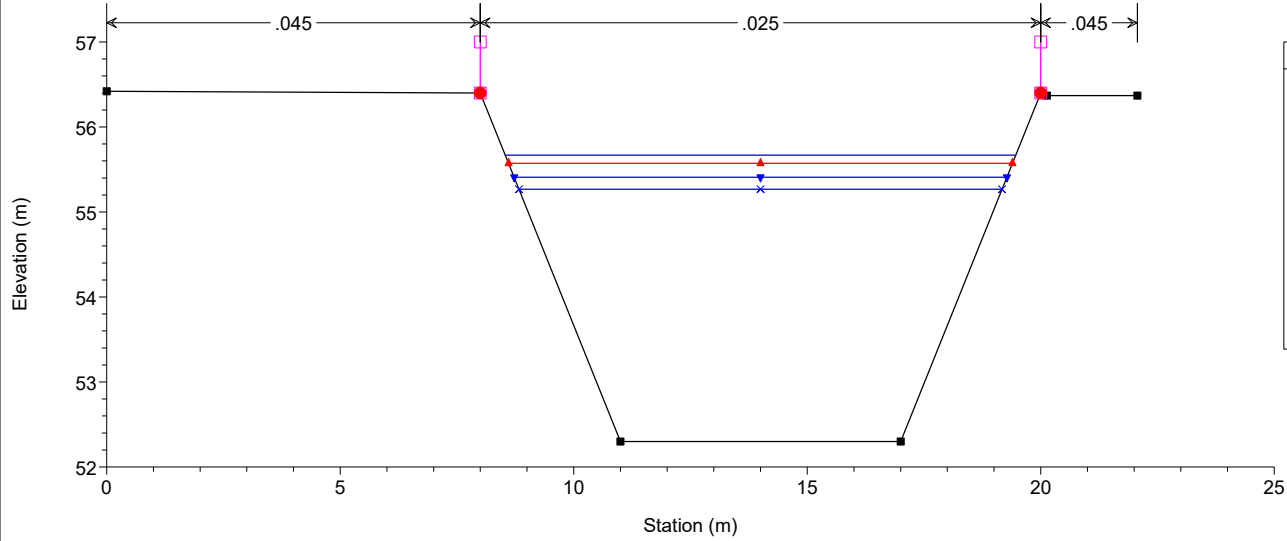
RS = 21.15 BR S.P. n°26 - Attraversamento PRO - Dimensioni 8.00 x 4.60



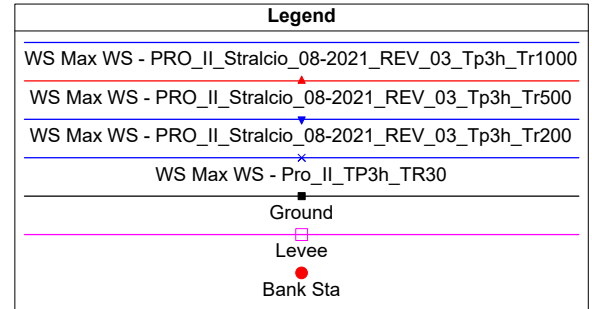
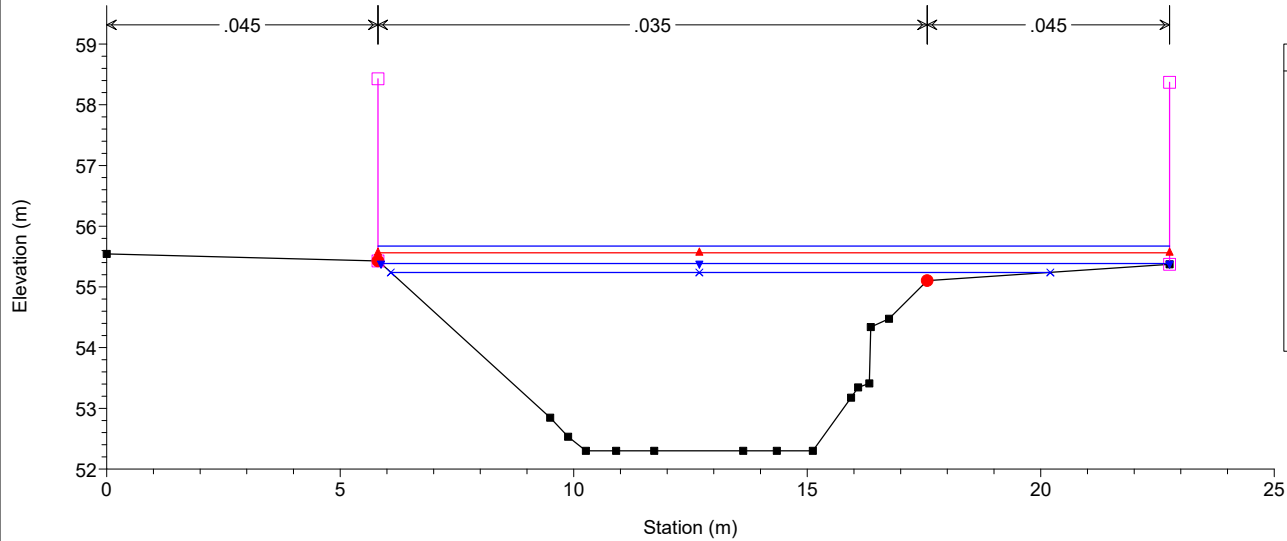
RS = 21.1



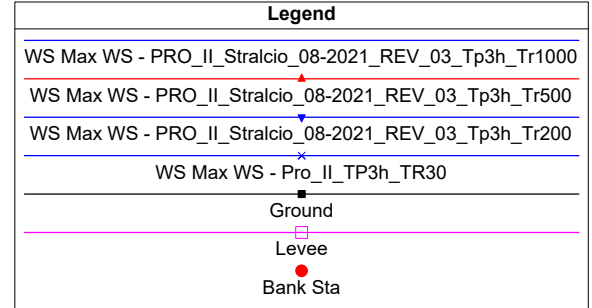
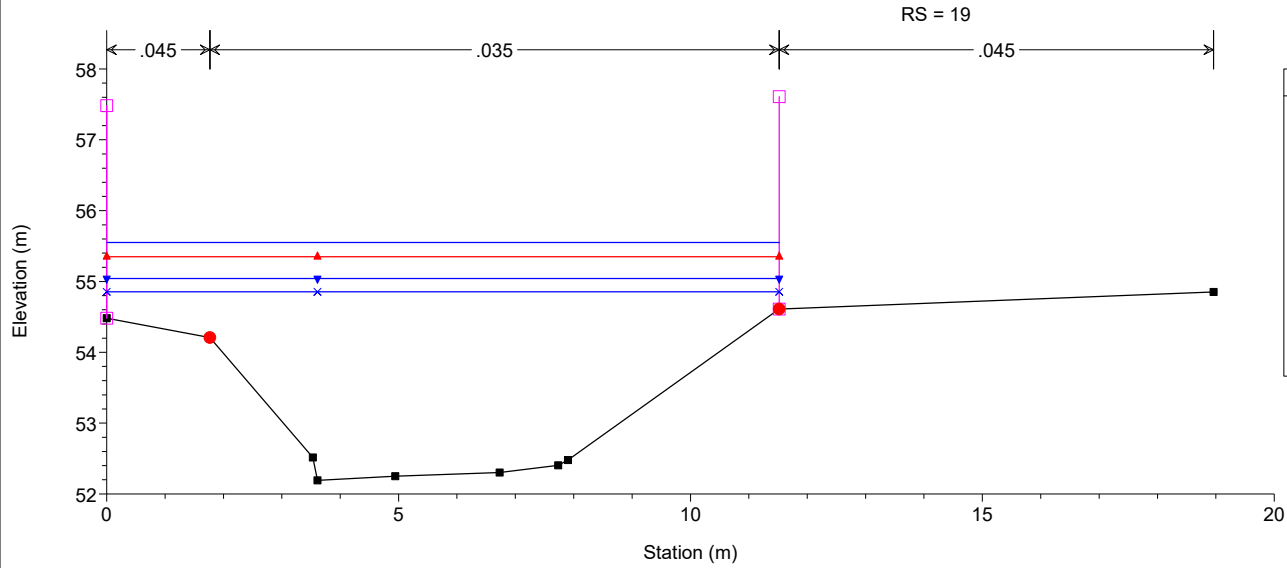
RS = 20.7 Ausiliaria valle attraversamento PRO S.P.



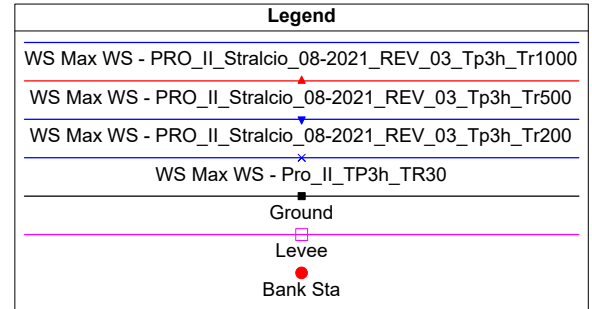
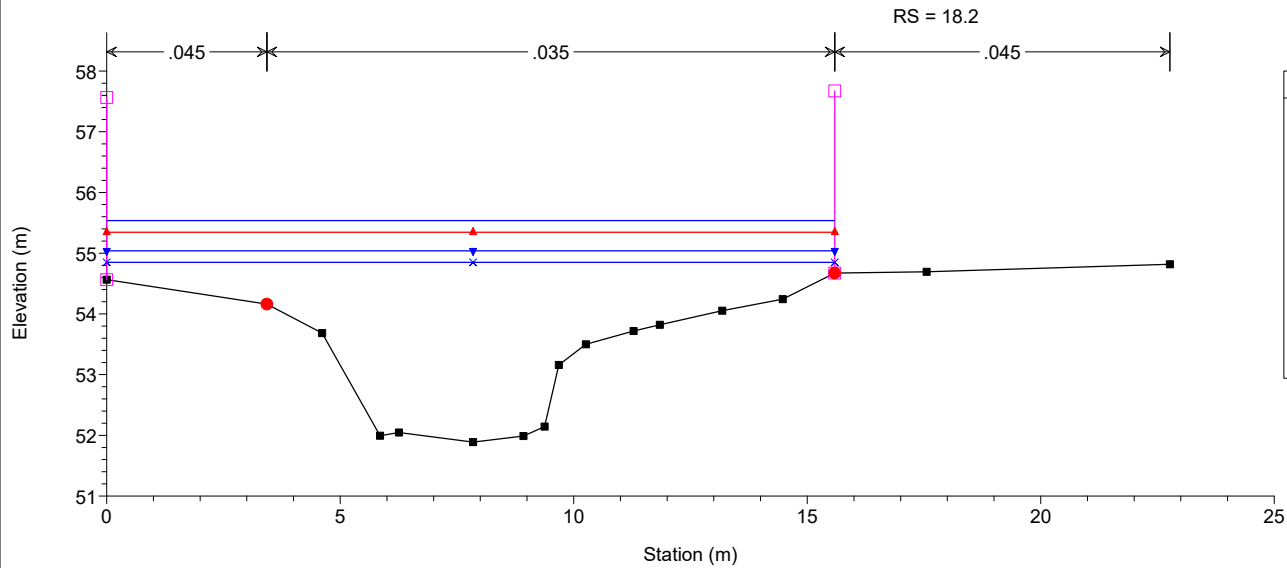
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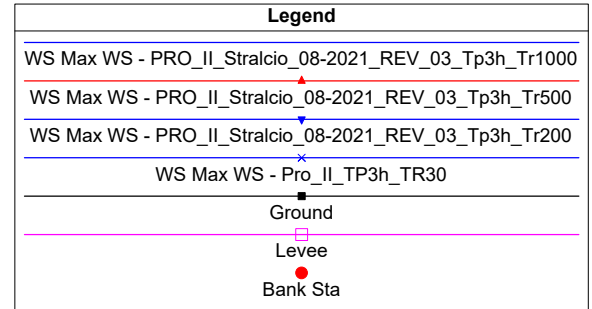
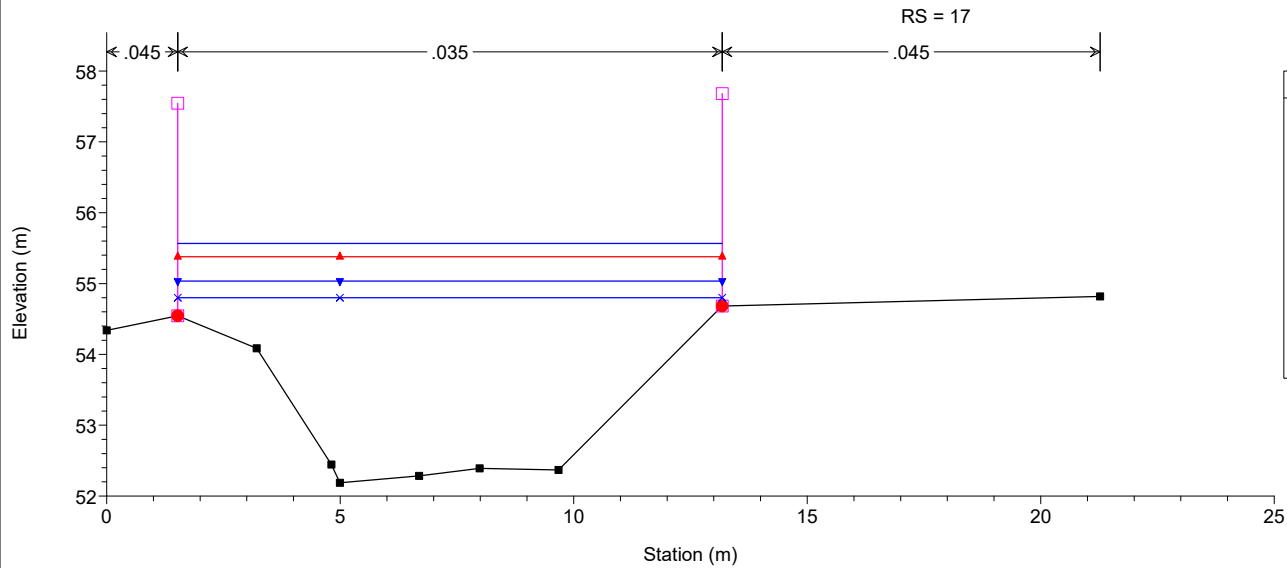
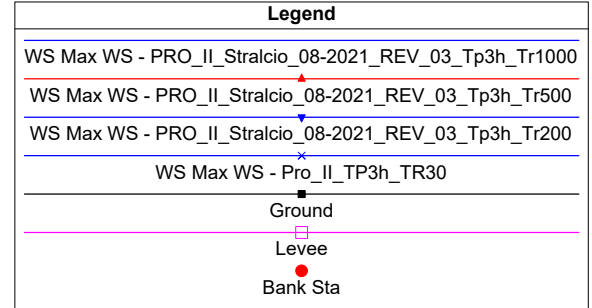
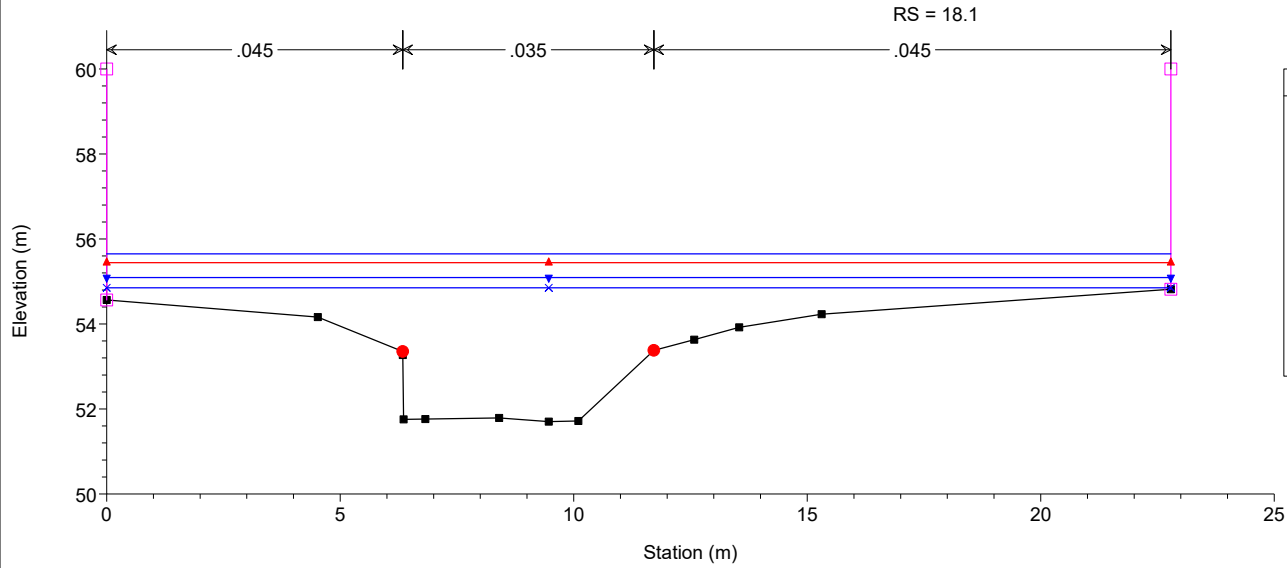


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

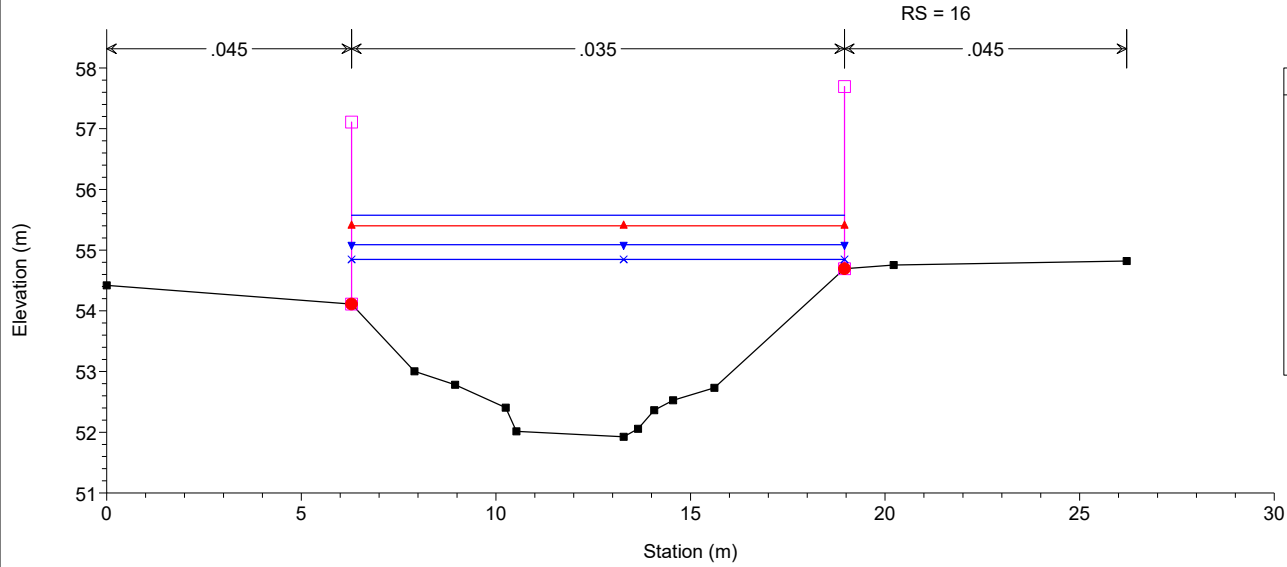


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

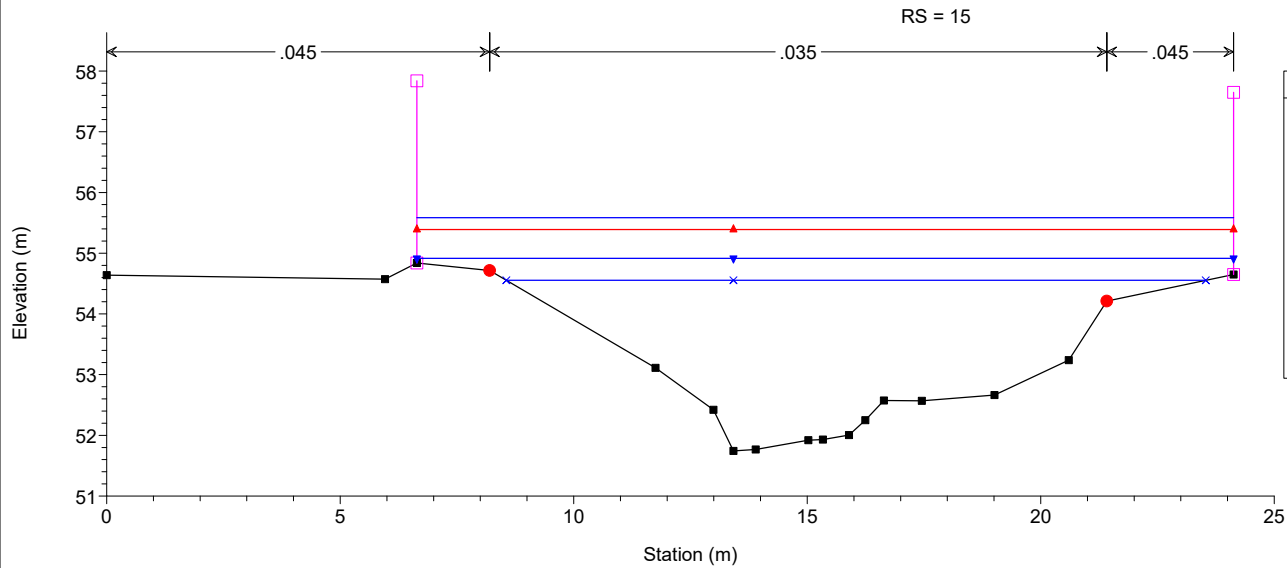




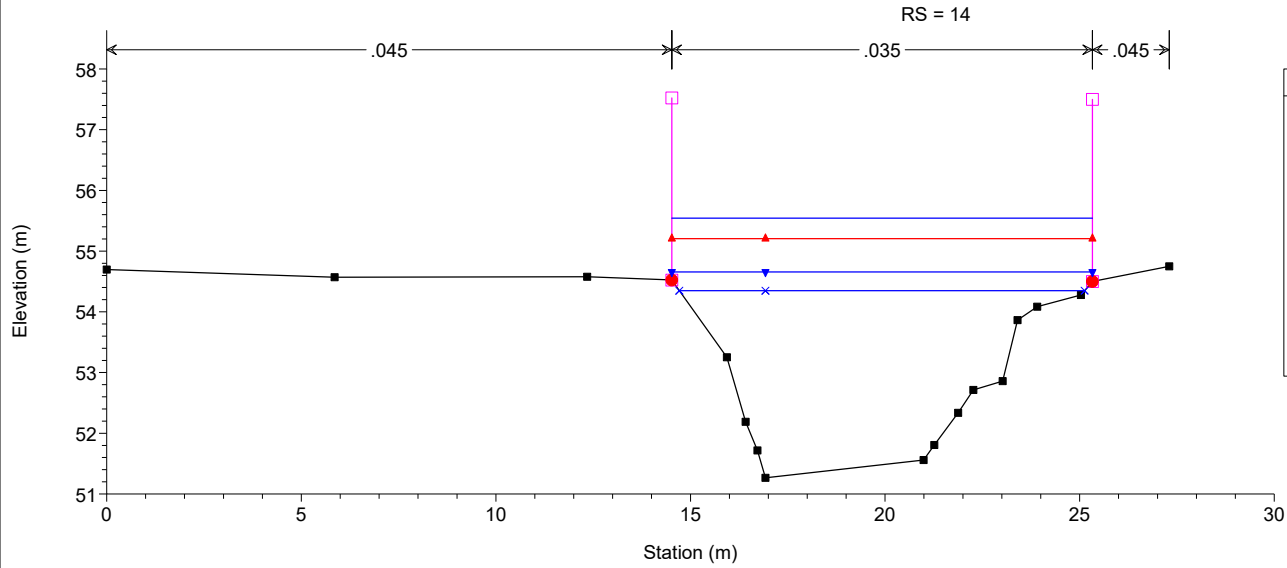
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



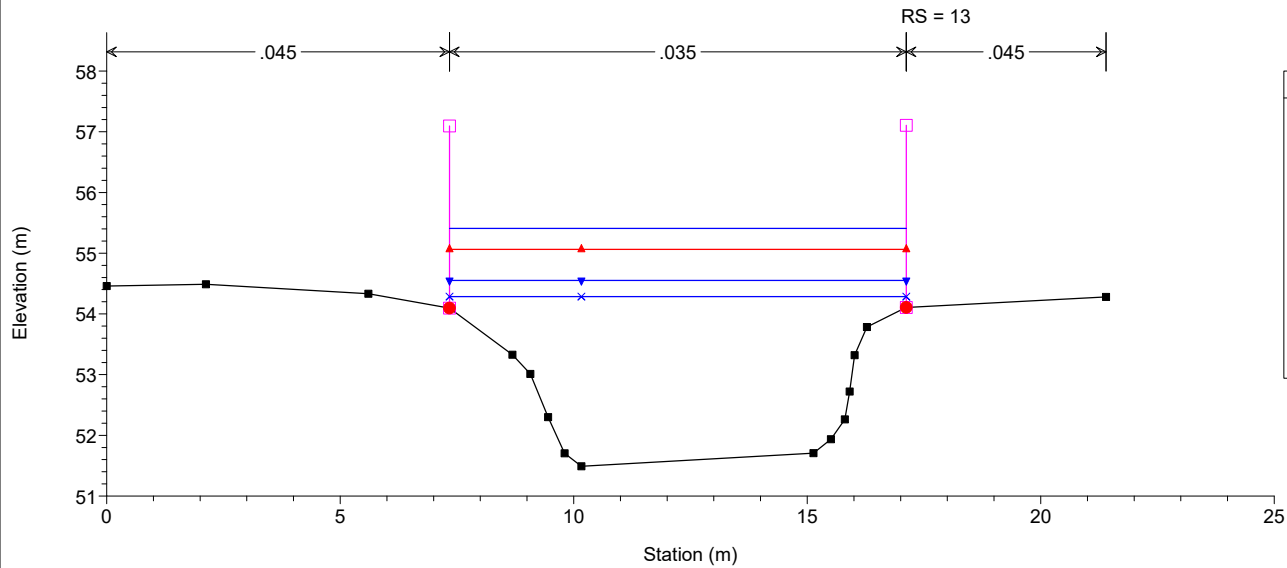
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

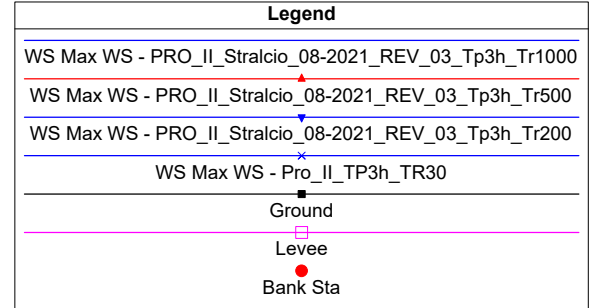
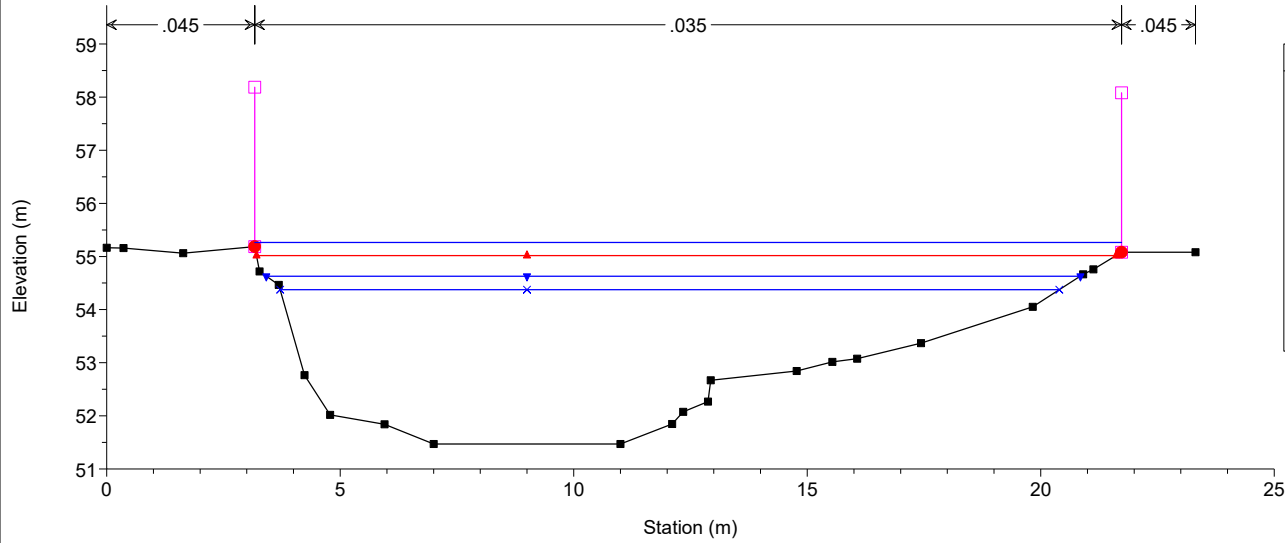


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

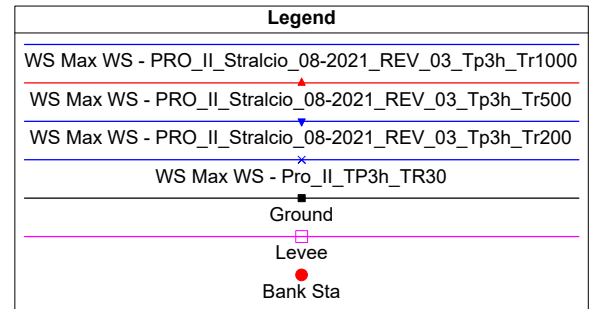
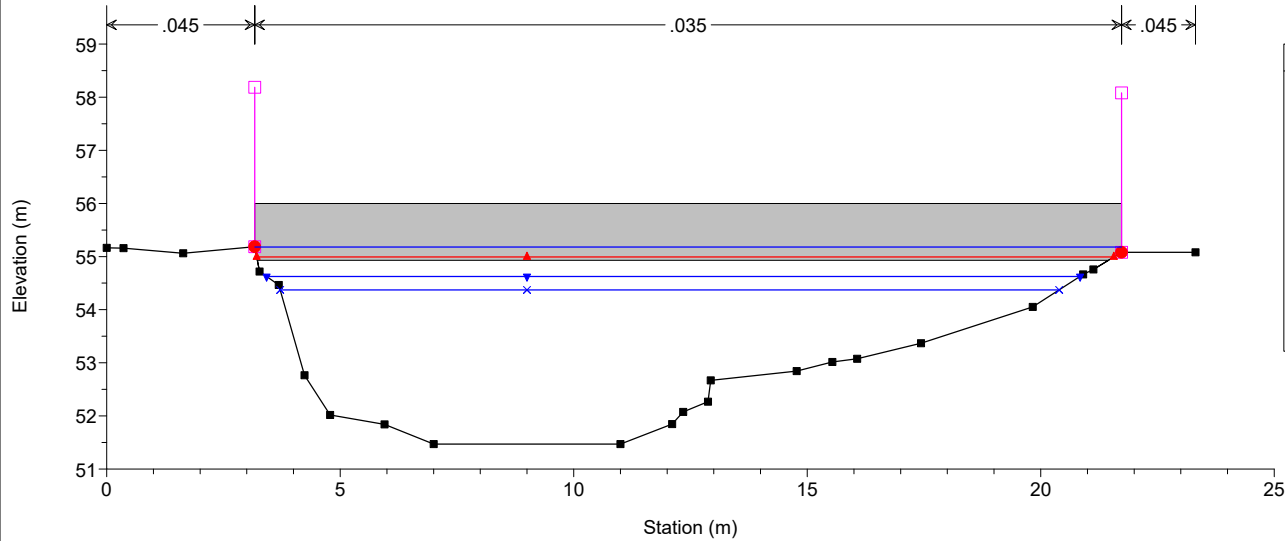




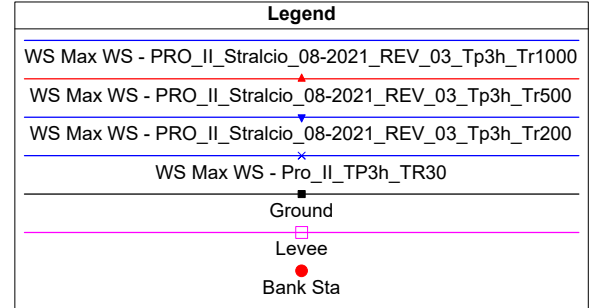
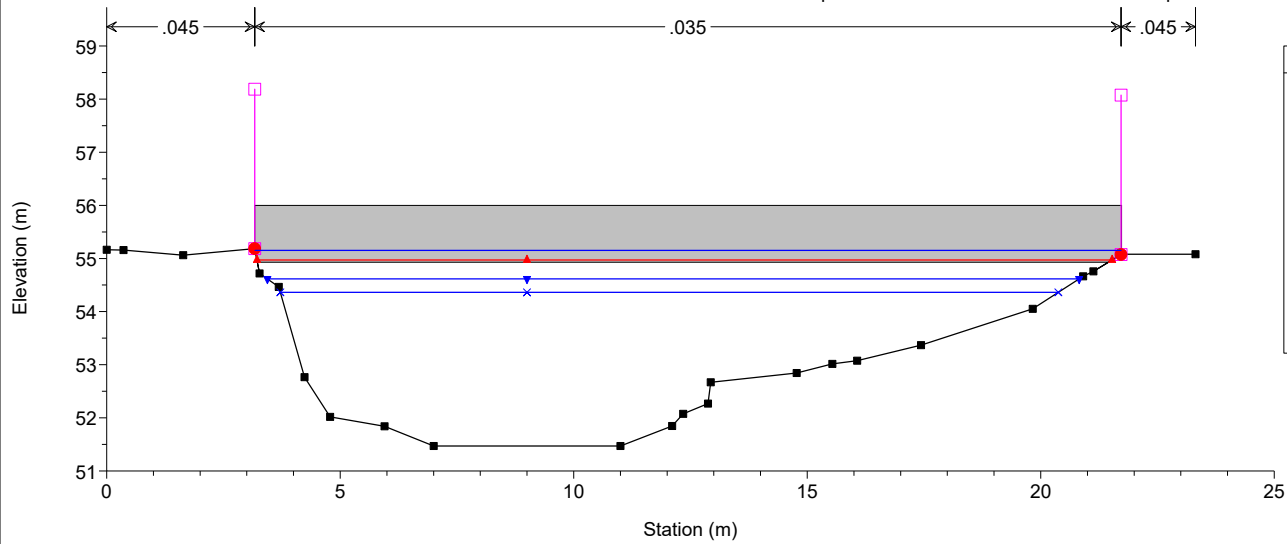
RS = 12.2



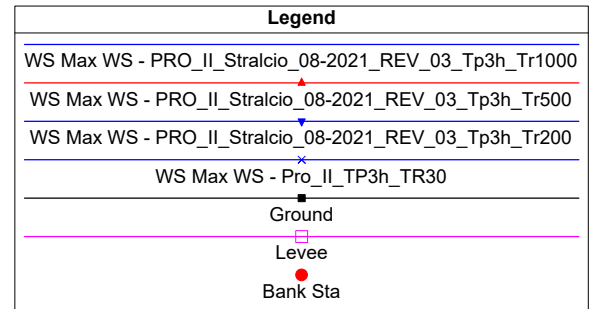
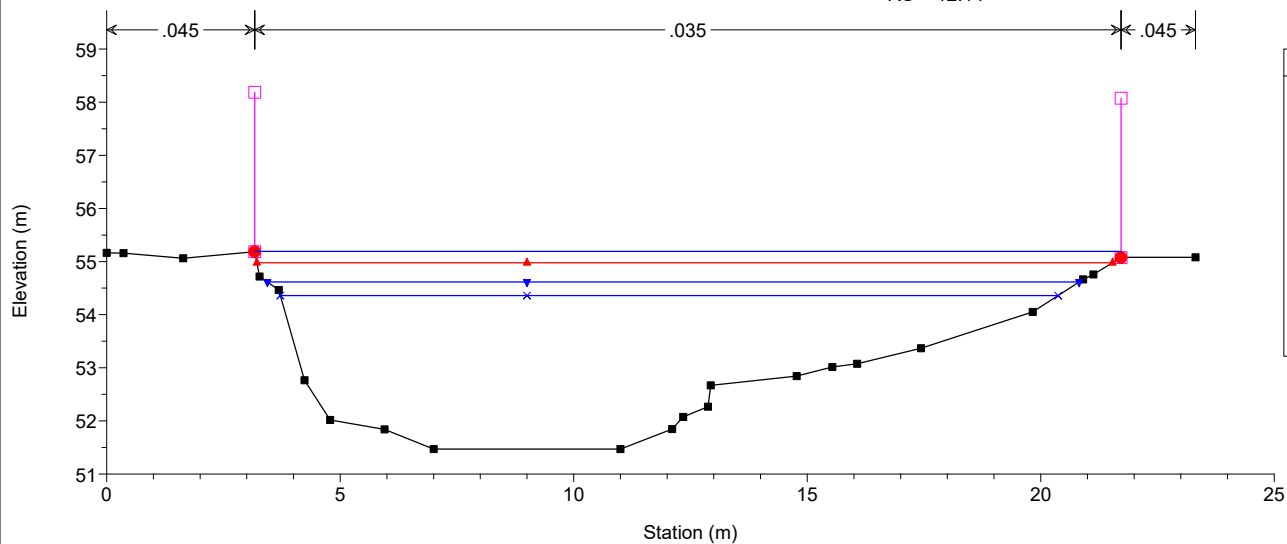
RS = 12.15 BR Spalletta di contenimento e intervento di ripulitura



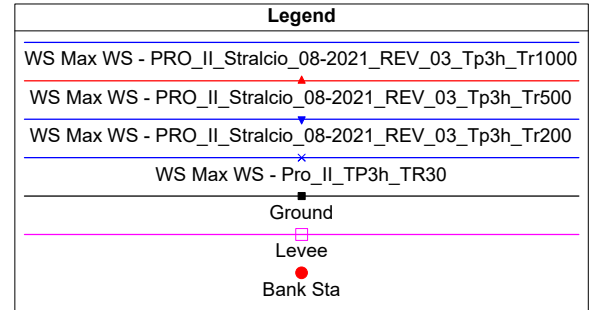
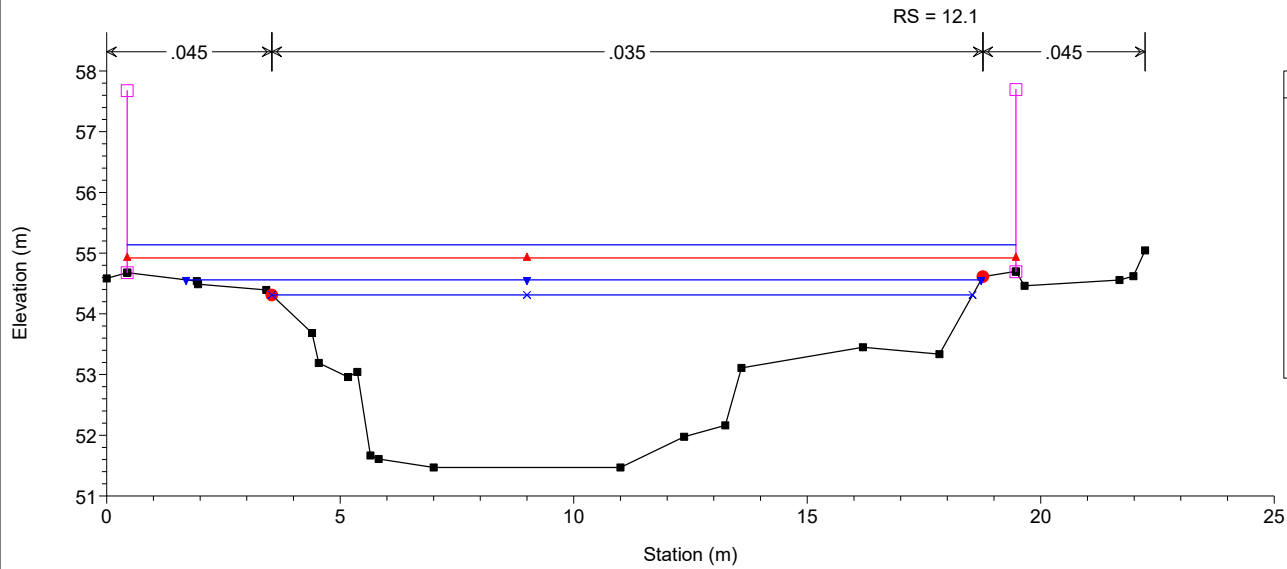
RS = 12.15 BR Spalletta di contenimento e intervento di ripulitura



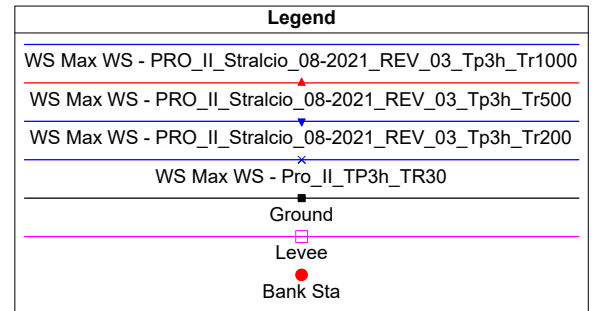
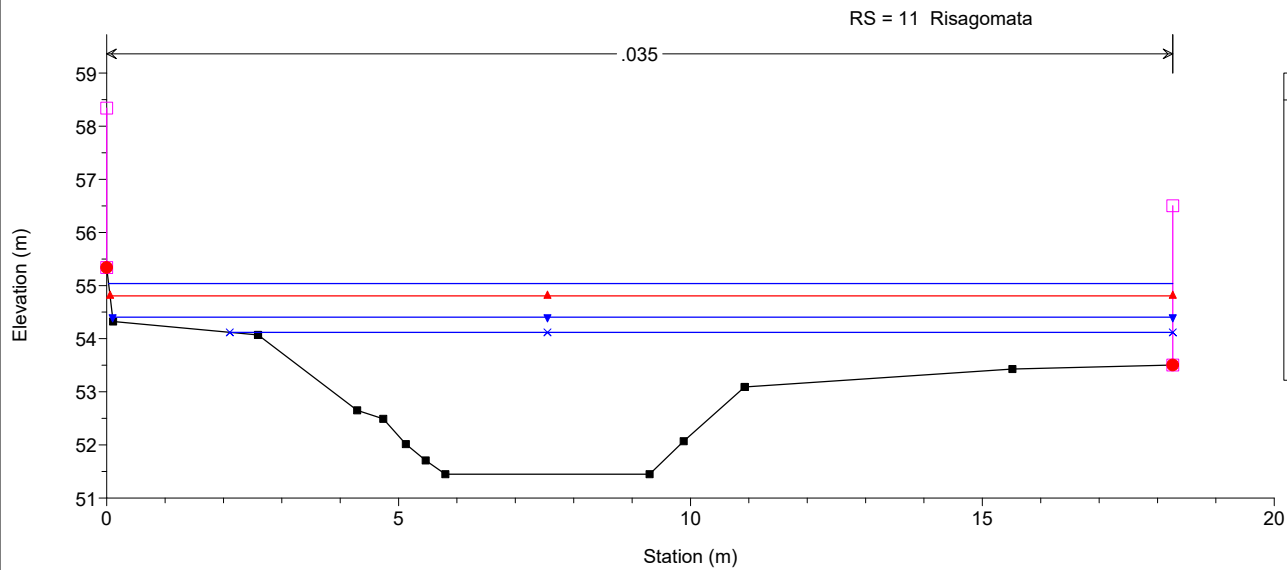
RS = 12.14



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

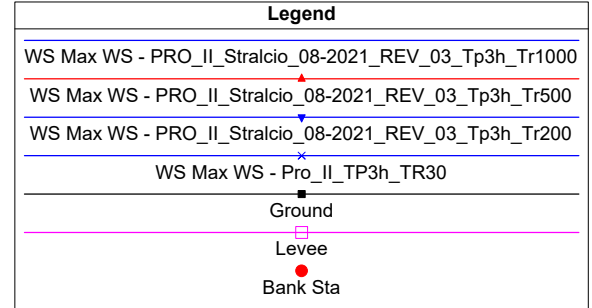
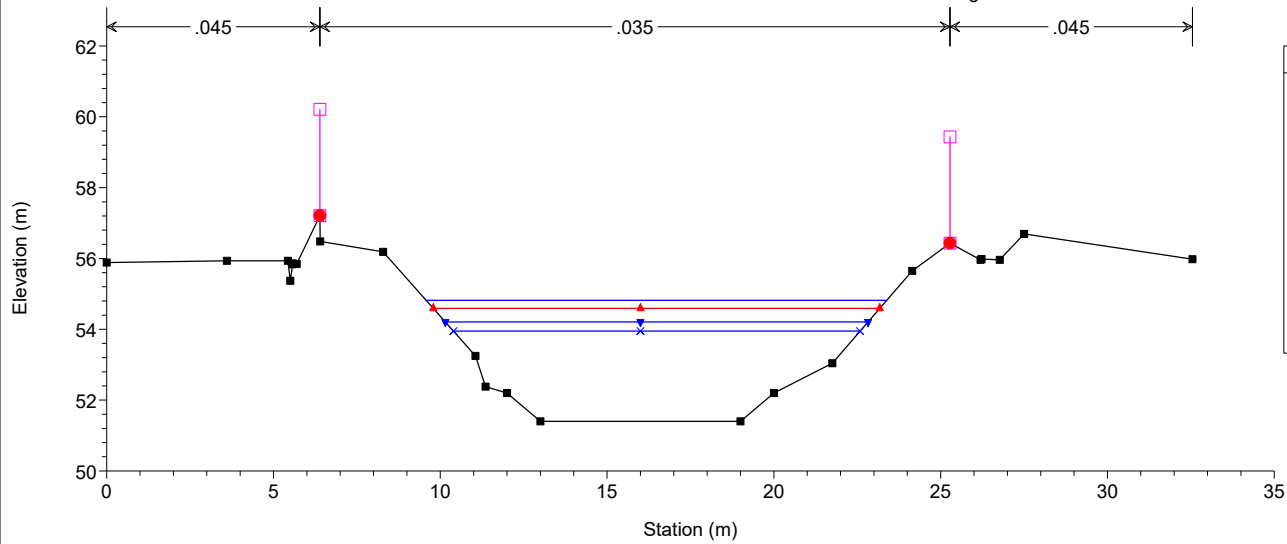


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



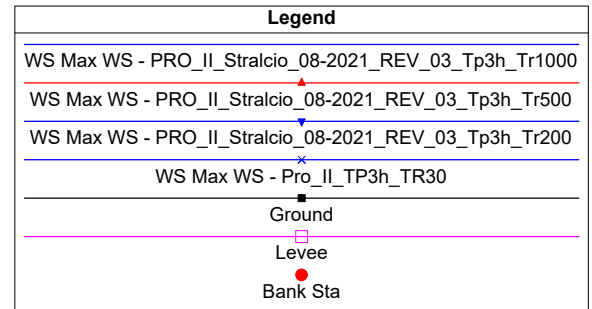
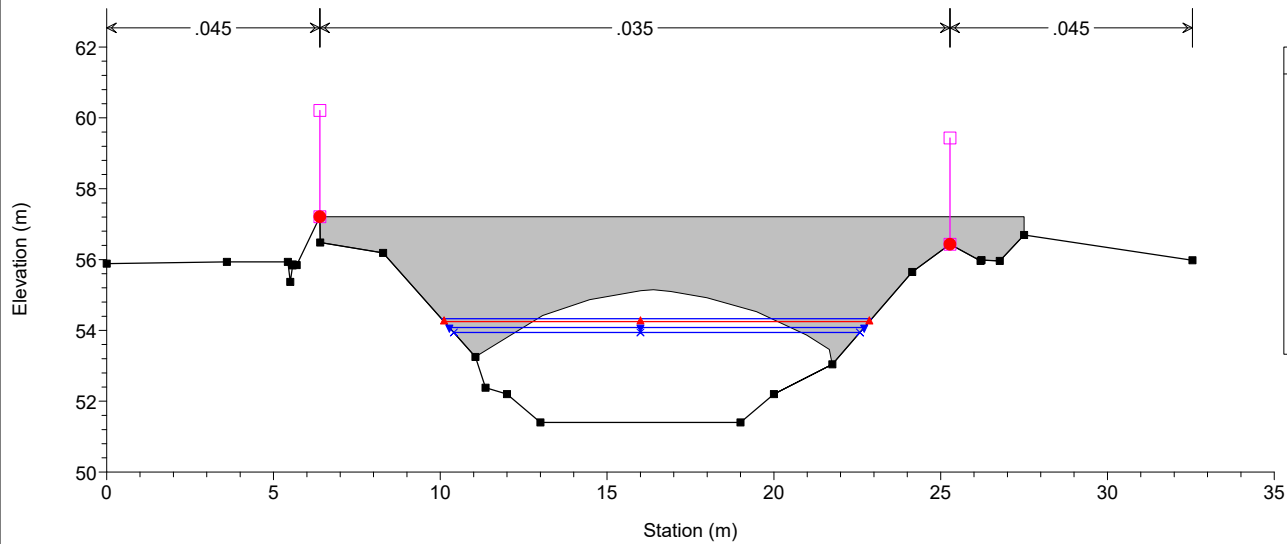
RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

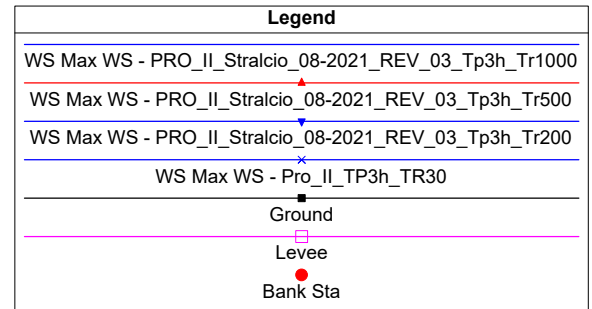
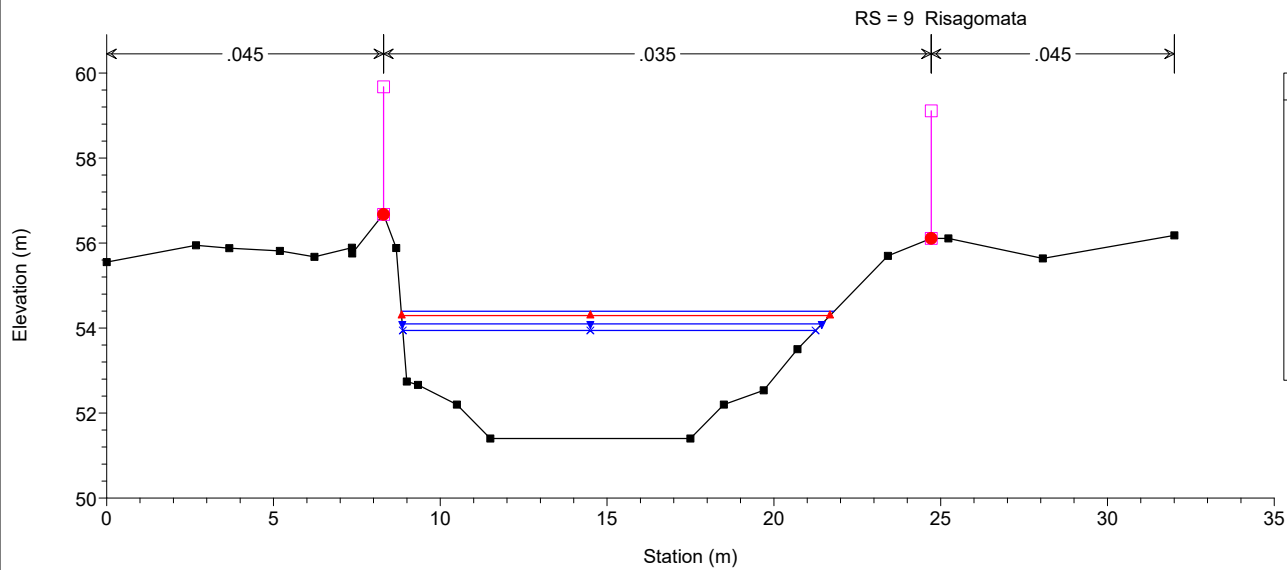
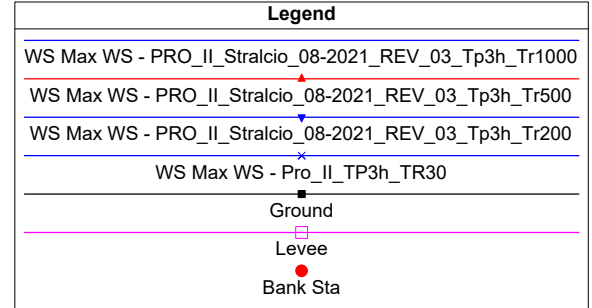
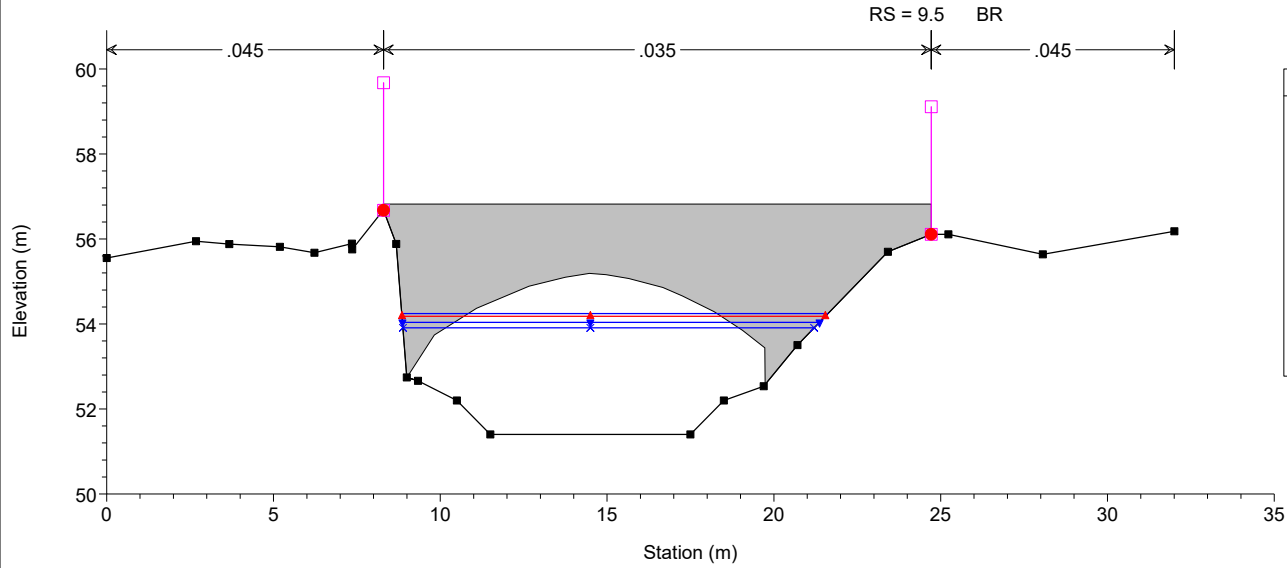
RS = 10 Risagomata



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

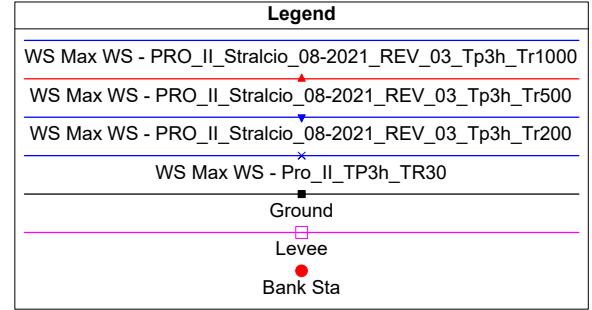
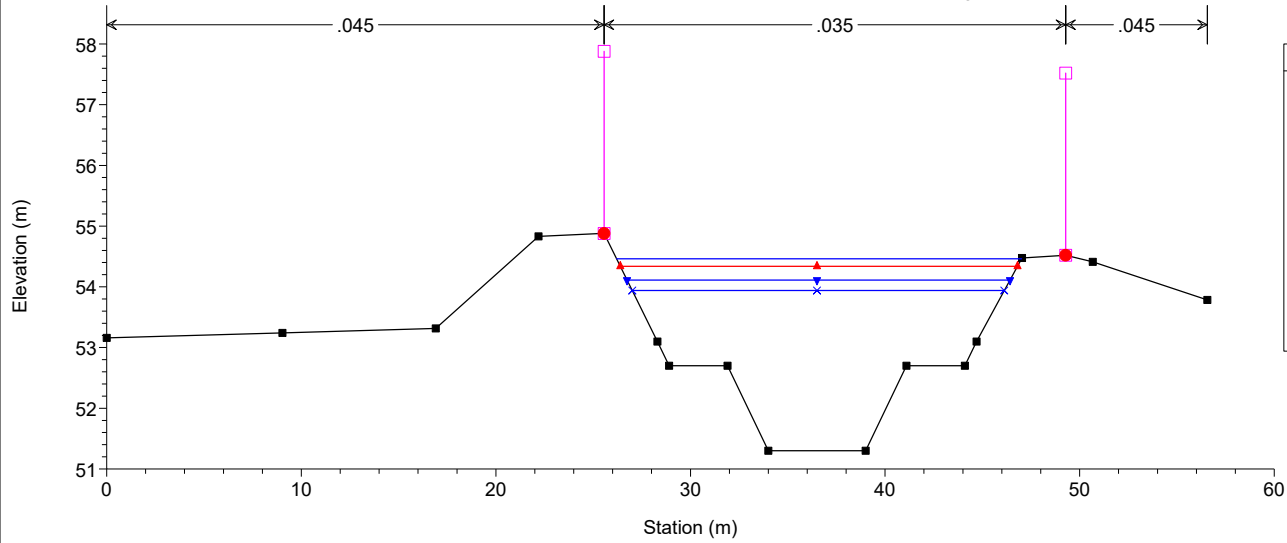
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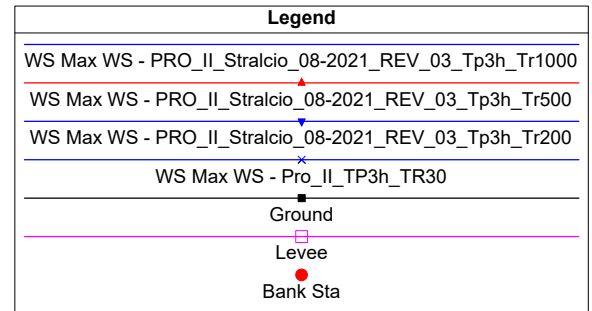
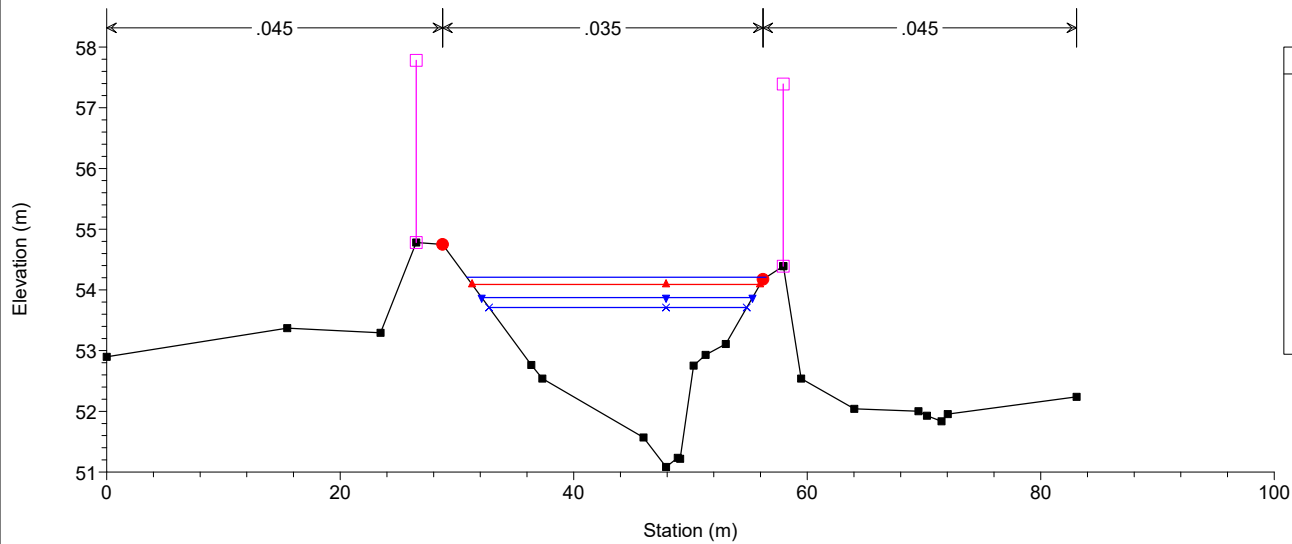
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 8 Risagomata

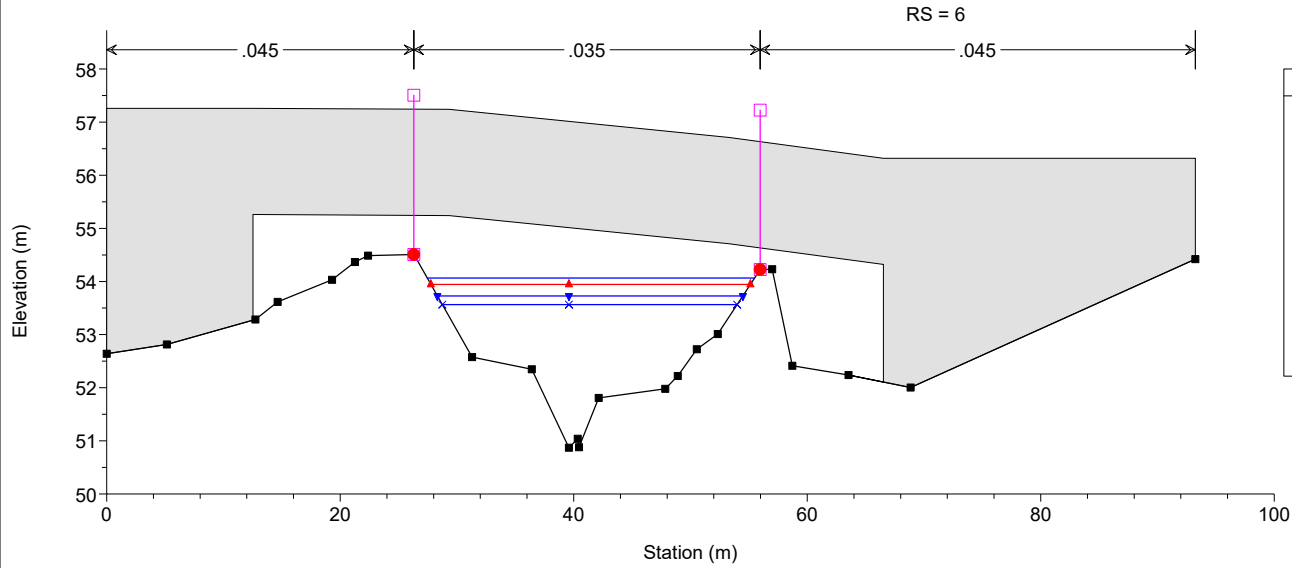


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

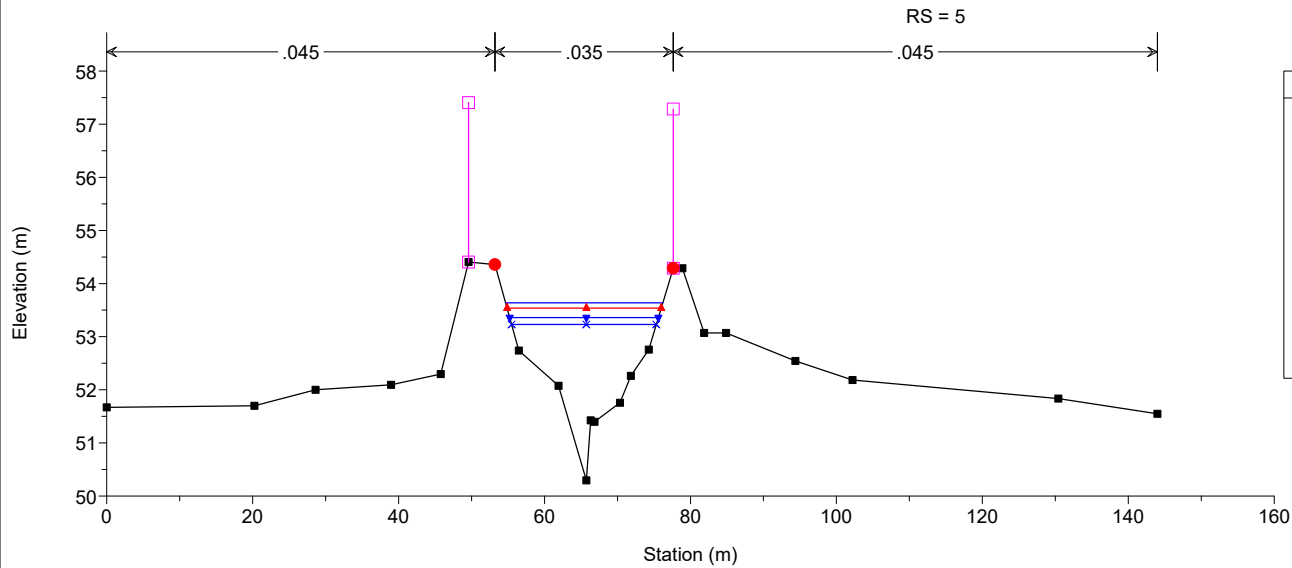
RS = 7

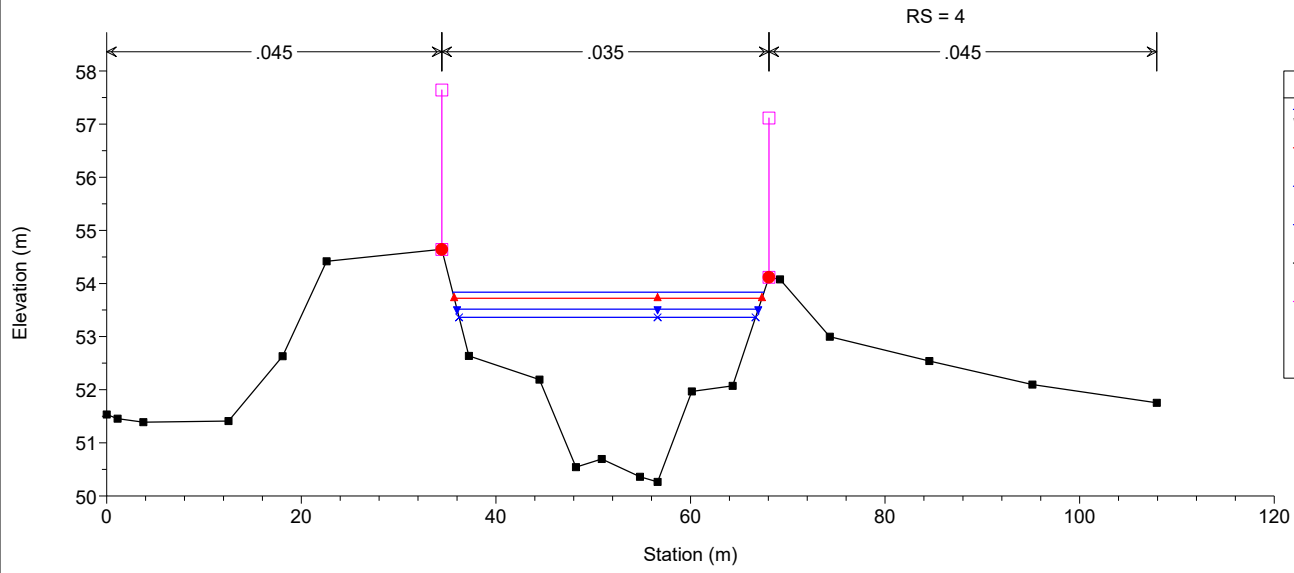


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023





Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tp3h_Tr1000	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tp3h_Tr500	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tp3h_Tr200	
WS Max WS - Pro_II_TP3h_TR30	
Ground	
Levee	
Bank Sta	



HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS

Reach	River Sta	Profile	Plan	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
Pietrosovalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	66.43	52.50	56.50		56.59	0.000794	1.37	53.53	38.33	0.28
Pietrosovalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	69.93	52.50	56.19		56.33	0.001427	1.70	42.04	29.97	0.37
Pietrosovalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	70.00	52.50	55.70		55.94	0.003040	2.18	32.05	17.97	0.52
Pietrosovalle	23	Max WS	Pro_II_TP3h_TR30	58.00	52.50	55.48		55.69	0.002998	2.06	28.18	17.12	0.51
Pietrosovalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	66.43	52.50	56.50		56.59	0.000793	1.37	53.62	38.33	0.28
Pietrosovalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	69.79	52.50	56.18		56.33	0.001424	1.69	42.10	29.87	0.37
Pietrosovalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	70.00	52.50	55.69		55.94	0.003059	2.19	31.97	17.95	0.52
Pietrosovalle	22.99	Max WS	Pro_II_TP3h_TR30	58.00	52.50	55.47		55.69	0.003019	2.06	28.11	17.11	0.51
Pietrosovalle	22.9			Lat Struct									
Pietrosovalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	68.45	52.40	56.47		56.56	0.000628	1.35	58.10	43.50	0.25
Pietrosovalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	71.54	52.40	56.16		56.30	0.001063	1.63	45.45	32.61	0.32
Pietrosovalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	70.00	52.40	55.71		55.90	0.001777	1.93	36.32	15.93	0.41
Pietrosovalle	22	Max WS	Pro_II_TP3h_TR30	58.00	52.40	55.50		55.66	0.001585	1.76	32.99	15.30	0.38
Pietrosovalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	92.98	52.30	56.00		56.43	0.001950	2.91	31.93	11.28	0.55
Pietrosovalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	83.98	52.30	55.79		56.20	0.001949	2.83	29.64	10.99	0.55
Pietrosovalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.99	52.30	55.49		55.85	0.001864	2.65	26.36	10.55	0.54
Pietrosovalle	21.3	Max WS	Pro_II_TP3h_TR30	58.00	52.30	55.32		55.60	0.001540	2.35	24.64	10.32	0.49
Pietrosovalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	98.77	52.30	55.73	54.79	56.39	0.003561	3.59	27.48	8.00	0.62
Pietrosovalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.46	52.30	55.62	54.60	56.17	0.003069	3.30	26.54	8.00	0.58
Pietrosovalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.99	52.30	55.44	54.28	55.84	0.002286	2.79	25.12	8.00	0.50
Pietrosovalle	21.2	Max WS	Pro_II_TP3h_TR30	58.00	52.30	55.29	54.05	55.59	0.001788	2.42	23.96	8.00	0.45
Pietrosovalle	21.15			Bridge									
Pietrosovalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	98.24	52.30	55.60		56.31	0.003922	3.72	26.42	8.00	0.65
Pietrosovalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.39	52.30	55.53		56.11	0.003305	3.38	25.82	8.00	0.60
Pietrosovalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.99	52.30	55.39		55.80	0.002388	2.83	24.72	8.00	0.51
Pietrosovalle	21.1	Max WS	Pro_II_TP3h_TR30	58.00	52.30	55.26		55.57	0.001843	2.45	23.69	8.00	0.45
Pietrosovalle	21.09			Lat Struct									
Pietrosovalle	21.08			Lat Struct									
Pietrosovalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	98.41	52.30	55.67		56.28	0.002980	3.45	28.51	10.93	0.68
Pietrosovalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.39	52.30	55.57		56.09	0.002603	3.18	27.47	10.79	0.64
Pietrosovalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.99	52.30	55.41		55.79	0.001996	2.72	25.73	10.55	0.56
Pietrosovalle	20.7	Max WS	Pro_II_TP3h_TR30	58.00	52.30	55.27		55.56	0.001613	2.39	24.25	10.34	0.50
Pietrosovalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	98.10	52.30	55.67		56.22	0.005360	3.31	31.30	16.95	0.67
Pietrosovalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.38	52.30	55.56		56.05	0.004988	3.11	29.39	16.95	0.65

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosovalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.98	52.30	55.38		55.76	0.004146	2.72	26.40	16.88	0.59
Pietrosovalle	20	Max WS	Pro_II_TP3h_TR30	58.00	52.30	55.24		55.54	0.003515	2.42	24.12	14.12	0.54
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	79.11	52.19	55.55		56.00	0.004217	3.02	27.50	11.52	0.60
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	72.23	52.19	55.35		55.80	0.004523	3.00	25.20	11.52	0.62
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	62.13	52.19	55.04		55.49	0.005178	2.98	21.67	11.52	0.66
Pietrosovalle	19	Max WS	Pro_II_TP3h_TR30	54.25	52.19	54.85		55.27	0.005342	2.87	19.50	11.52	0.66
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	84.06	51.89	55.54		55.92	0.004173	2.80	32.10	15.59	0.59
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	75.23	51.89	55.35		55.72	0.004464	2.76	29.09	15.59	0.61
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	63.14	51.89	55.04		55.41	0.005327	2.75	24.30	15.59	0.65
Pietrosovalle	18.2	Max WS	Pro_II_TP3h_TR30	54.60	51.89	54.85		55.21	0.005798	2.69	21.35	15.59	0.68
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	82.31	51.70	55.65		55.90	0.002446	2.65	43.72	22.79	0.44
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	72.13	51.70	55.44		55.70	0.002545	2.60	39.03	22.79	0.45
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	61.46	51.70	55.09		55.40	0.003297	2.75	31.08	22.79	0.50
Pietrosovalle	18.1	Max WS	Pro_II_TP3h_TR30	54.01	51.70	54.85		55.20	0.004005	2.88	25.57	22.79	0.54
Pietrosovalle	18.09												
				Lat Struct									
Pietrosovalle	18.08												
				Lat Struct									
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	75.08	52.19	55.57		55.91	0.003553	2.61	28.76	11.66	0.53
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	66.14	52.19	55.38		55.69	0.003476	2.49	26.56	11.66	0.53
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	58.39	52.19	55.04		55.38	0.004377	2.59	22.57	11.66	0.59
Pietrosovalle	17	Max WS	Pro_II_TP3h_TR30	52.80	52.19	54.80		55.16	0.005278	2.66	19.81	11.66	0.65
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	79.09	51.93	55.58		55.84	0.002399	2.30	34.40	12.67	0.45
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	70.61	51.93	55.40		55.65	0.002318	2.19	32.20	12.67	0.44
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	60.13	51.93	55.09		55.32	0.002466	2.13	28.25	12.67	0.46
Pietrosovalle	16	Max WS	Pro_II_TP3h_TR30	54.42	51.93	54.85		55.09	0.002835	2.16	25.19	12.67	0.49
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	74.64	51.74	55.59		55.79	0.001571	2.02	39.79	17.49	0.39
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	67.56	51.74	55.39		55.58	0.001682	1.98	36.36	17.49	0.40
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	63.32	51.74	54.91		55.19	0.003129	2.35	28.05	17.49	0.53
Pietrosovalle	15	Max WS	Pro_II_TP3h_TR30	56.98	51.74	54.55		54.90	0.004840	2.61	22.14	14.98	0.64
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	69.20	51.26	55.54		55.78	0.002173	2.14	32.35	10.81	0.39
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	71.52	51.26	55.21		55.52	0.003263	2.49	28.71	10.81	0.49
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	66.33	51.26	54.66		55.09	0.005491	2.91	22.78	10.81	0.64
Pietrosovalle	14	Max WS	Pro_II_TP3h_TR30	57.37	51.26	54.35		54.79	0.006406	2.95	19.47	10.41	0.69
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	74.84	51.49	55.41		55.72	0.002912	2.47	30.31	9.78	0.45
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	75.52	51.49	55.06		55.46	0.004132	2.81	26.92	9.78	0.54
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	67.77	51.49	54.55		55.04	0.005969	3.09	21.93	9.78	0.66

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosovalle	13	Max WS	Pro_II_TP3h_TR30	57.75	51.49	54.29		54.74	0.006248	2.99	19.33	9.78	0.68
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.58	51.47	55.26	53.95	55.48	0.001829	2.05	47.61	18.56	0.41
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.81	51.47	55.02	53.82	55.23	0.002000	2.04	43.06	18.41	0.43
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	70.05	51.47	54.63	53.57	54.82	0.002107	1.94	36.07	17.43	0.43
Pietrosovalle	12.2	Max WS	Pro_II_TP3h_TR30	57.99	51.47	54.37	53.39	54.55	0.002076	1.83	31.74	16.69	0.42
Pietrosovalle	12.15			Bridge									
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.58	51.47	55.19		55.42	0.001993	2.11	46.27	18.55	0.43
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.81	51.47	54.98		55.20	0.002100	2.07	42.33	18.32	0.44
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	70.05	51.47	54.61		54.81	0.002150	1.96	35.81	17.38	0.44
Pietrosovalle	12.14	Max WS	Pro_II_TP3h_TR30	57.99	51.47	54.36		54.53	0.002121	1.84	31.51	16.66	0.43
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.58	51.47	55.14		55.42	0.002469	2.39	42.47	19.03	0.47
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.80	51.47	54.92		55.20	0.002686	2.35	38.39	19.03	0.48
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	70.05	51.47	54.56		54.81	0.002961	2.22	31.66	17.02	0.49
Pietrosovalle	12.1	Max WS	Pro_II_TP3h_TR30	57.99	51.47	54.31		54.53	0.003040	2.09	27.69	15.01	0.49
Pietrosovalle	12.08			Lat Struct									
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.58	51.45	55.04		55.36	0.003624	2.51	38.91	18.23	0.55
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.69	51.45	54.81		55.13	0.004173	2.53	34.68	18.20	0.58
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	70.01	51.45	54.40		54.74	0.005578	2.56	27.35	18.16	0.67
Pietrosovalle	11	Max WS	Pro_II_TP3h_TR30	57.99	51.45	54.12		54.46	0.006339	2.59	22.40	16.15	0.70
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.58	51.40	54.82	53.85	55.21	0.003462	2.77	35.23	13.81	0.55
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.51	51.40	54.59	53.70	54.97	0.003598	2.72	32.13	13.38	0.56
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.99	51.40	54.21	53.42	54.55	0.003677	2.58	27.18	12.67	0.56
Pietrosovalle	10	Max WS	Pro_II_TP3h_TR30	57.98	51.40	53.95	53.22	54.25	0.003608	2.42	23.95	12.19	0.55
Pietrosovalle	9.5			Bridge									
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.56	51.40	54.40		54.92	0.005263	3.20	30.48	12.98	0.67
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.51	51.40	54.29		54.75	0.004803	3.00	29.15	12.84	0.64
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.99	51.40	54.10		54.45	0.003961	2.63	26.66	12.58	0.58
Pietrosovalle	9	Max WS	Pro_II_TP3h_TR30	57.98	51.40	53.94		54.22	0.003364	2.34	24.74	12.37	0.53
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.57	51.30	54.46		54.74	0.003005	2.35	41.58	20.81	0.53
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.51	51.30	54.34		54.59	0.002897	2.24	39.06	20.41	0.52
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.97	51.30	54.11		54.32	0.002656	2.03	34.50	19.68	0.49
Pietrosovalle	8	Max WS	Pro_II_TP3h_TR30	57.98	51.30	53.94		54.12	0.002458	1.86	31.15	19.12	0.47
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.55	51.09	54.21		54.49	0.003862	2.37	41.15	25.64	0.59
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.45	51.09	54.09		54.36	0.003825	2.29	38.22	24.67	0.59

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

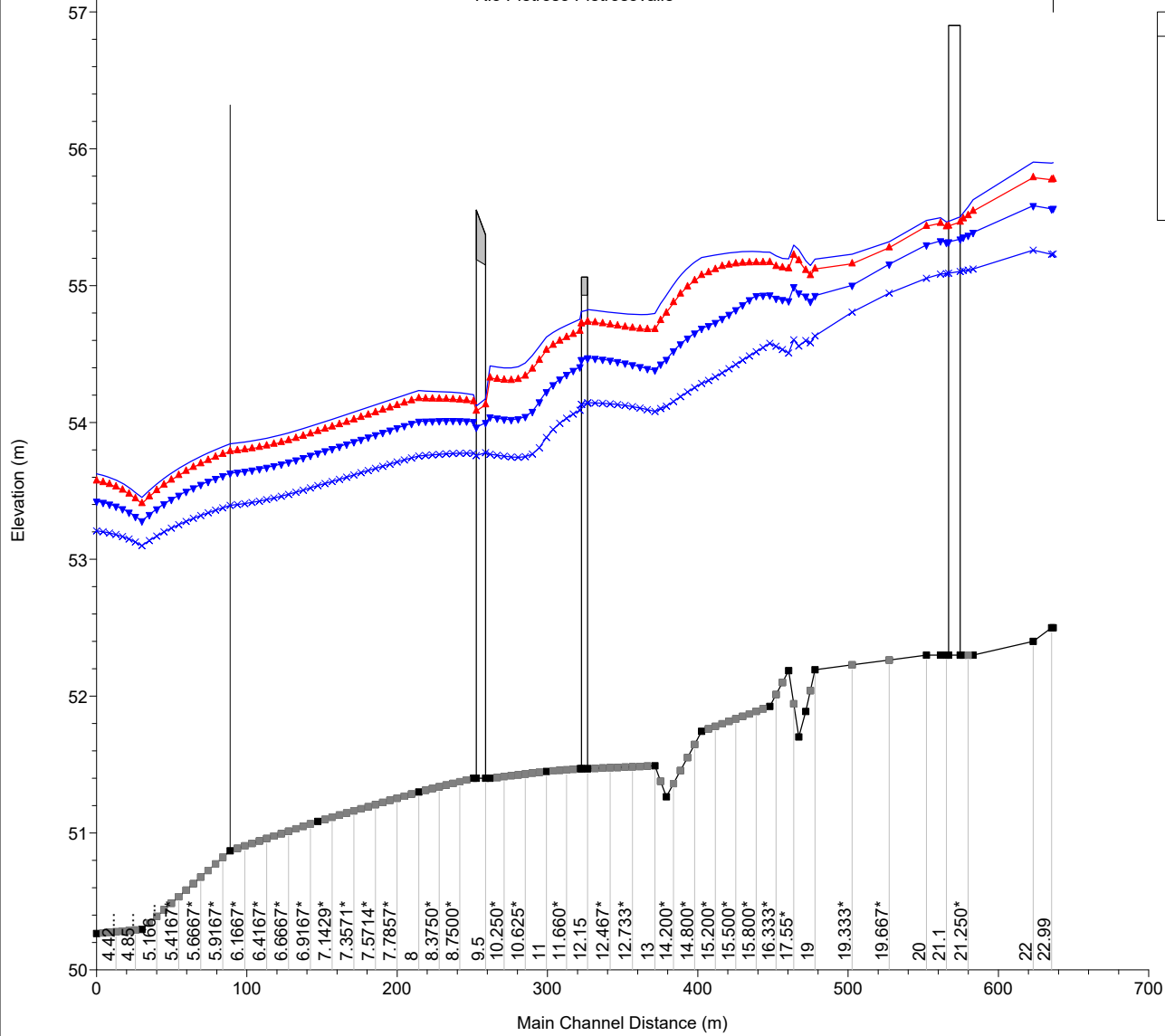
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.91	51.09	53.87		54.10	0.003664	2.12	33.03	23.19	0.57
Pietrosovalle	7	Max WS	Pro_II_TP3h_TR30	57.98	51.09	53.71		53.91	0.003510	1.98	29.33	22.08	0.55
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.54	50.87	54.06	53.36	54.28	0.002802	2.07	47.03	28.03	0.51
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.41	50.87	53.95	53.27	54.15	0.002774	2.00	43.74	27.37	0.50
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.90	50.87	53.73	53.09	53.90	0.002688	1.84	37.91	26.16	0.49
Pietrosovalle	6	Max WS	Pro_II_TP3h_TR30	57.98	50.87	53.56	52.96	53.71	0.002608	1.72	33.70	25.25	0.48
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.44	50.30	53.64		54.08	0.006762	2.96	32.89	21.55	0.77
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.02	50.30	53.54		53.94	0.006569	2.83	30.75	21.13	0.75
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.84	50.30	53.36		53.70	0.006164	2.58	27.06	20.38	0.72
Pietrosovalle	5	Max WS	Pro_II_TP3h_TR30	57.95	50.30	53.23		53.52	0.005715	2.37	24.47	19.83	0.68
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	97.48	50.27	53.84	52.52	53.94	0.000960	1.42	68.50	32.00	0.31
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	87.26	50.27	53.72	52.41	53.81	0.000907	1.35	64.86	31.63	0.30
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	69.87	50.27	53.52	52.18	53.59	0.000800	1.20	58.38	30.96	0.28
Pietrosovalle	4	Max WS	Pro_II_TP3h_TR30	57.96	50.27	53.36	51.95	53.42	0.000709	1.08	53.72	30.47	0.26

**Rio Pietroso – Tratto di valle (a valle confluenza con Rio Arnese - sez. 23.2 – sez. 4)**

**Verifiche idrauliche moto vario stato di progetto**

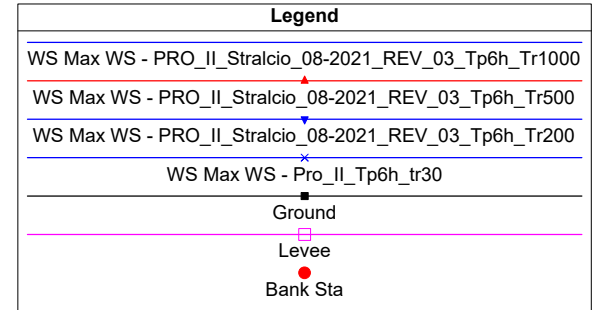
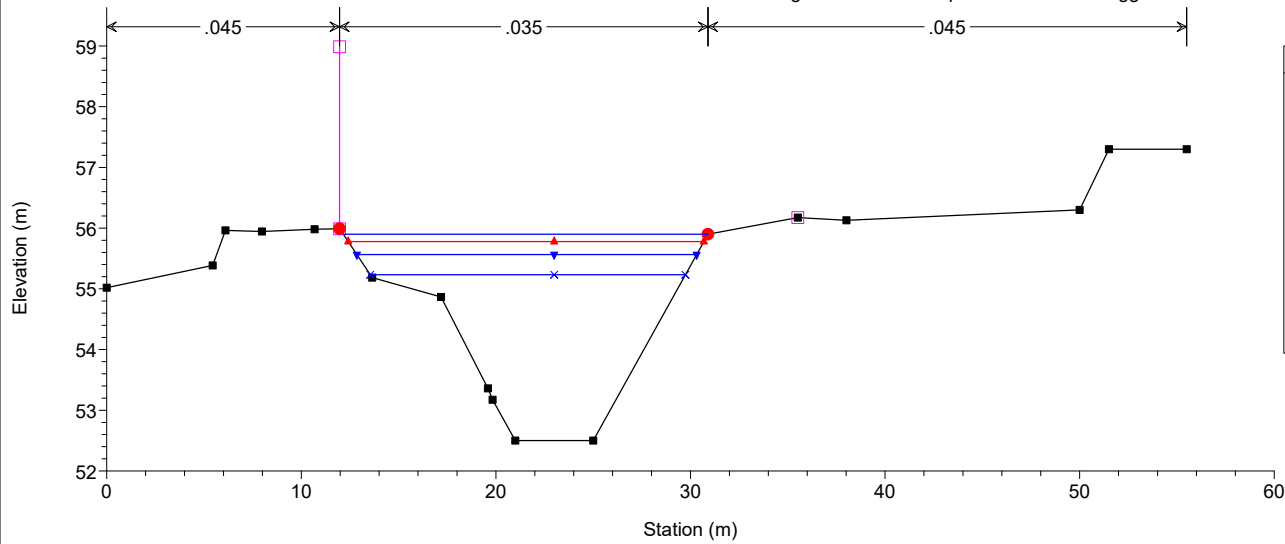
**Tr=1000, 500, 200 e Tr=30 anni – Tp 6 ore**

Rio Pietroso Pietrosovalle

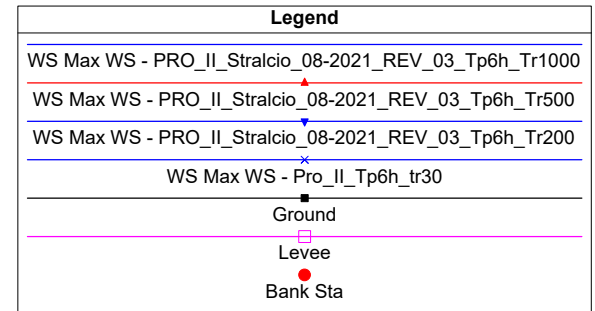
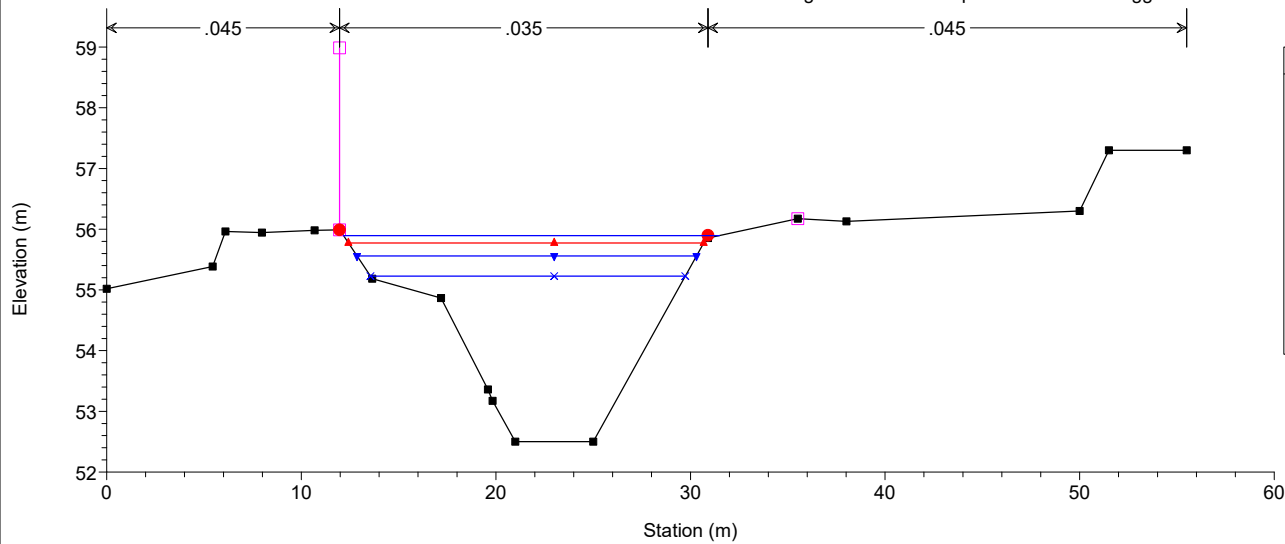


Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	×
WS Max WS - Pro_II_Tp6h_tr30	■
Ground	■

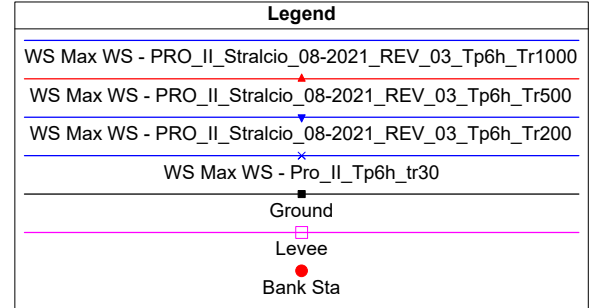
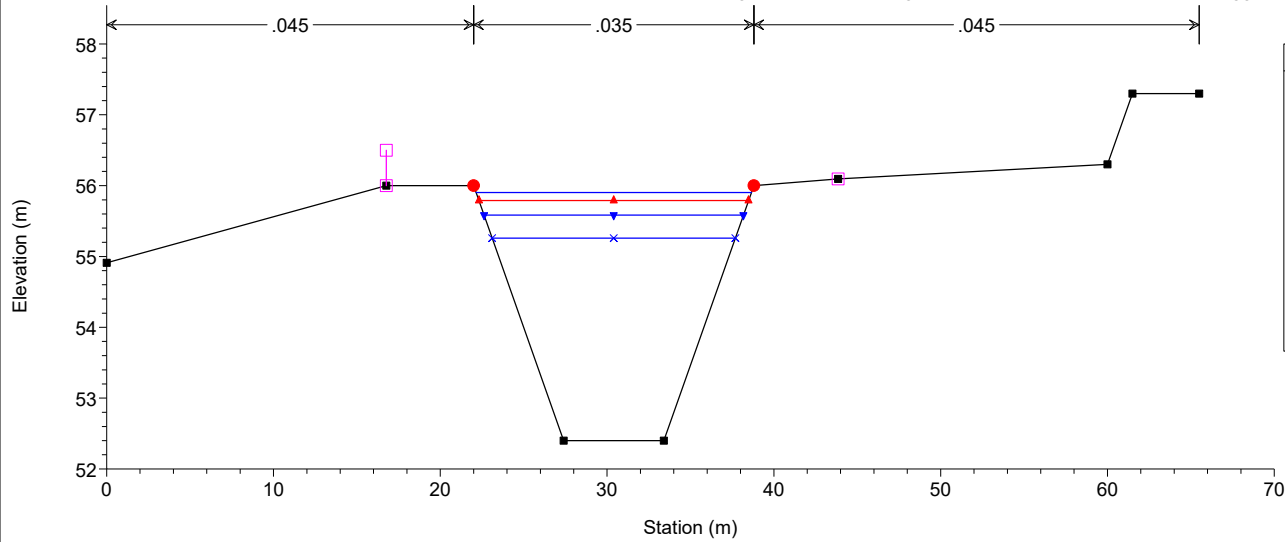
RS = 23 Con arginetto in destra a protezione di via Ruggero Grieco



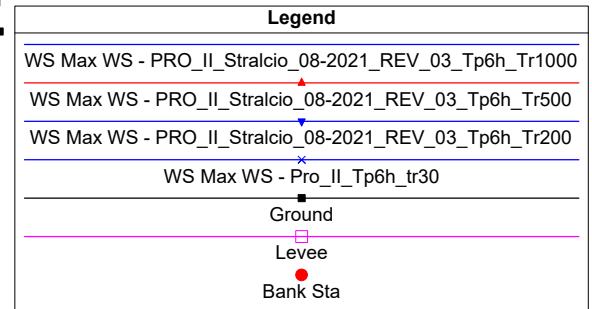
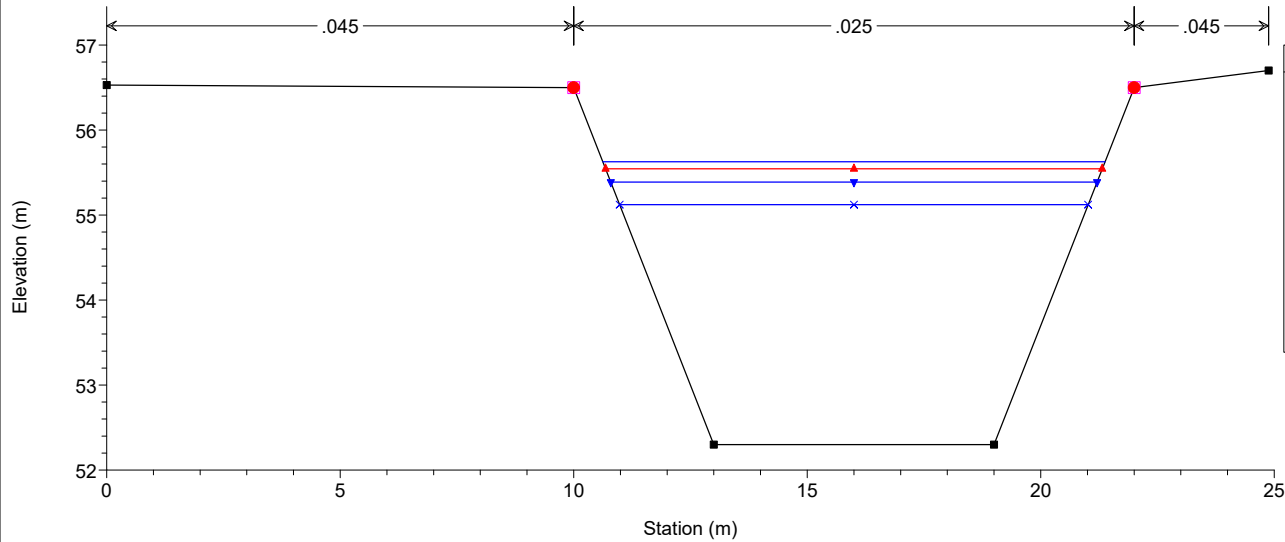
RS = 22.99 Con arginetto in destra a protezione di via Ruggero Grieco



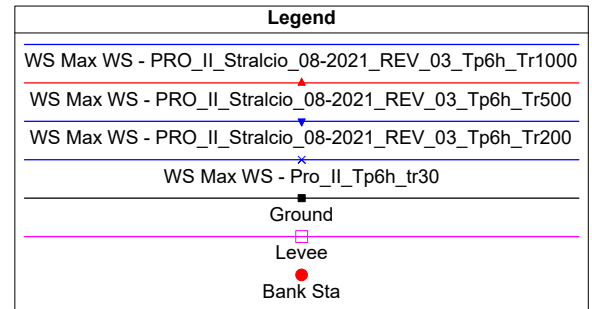
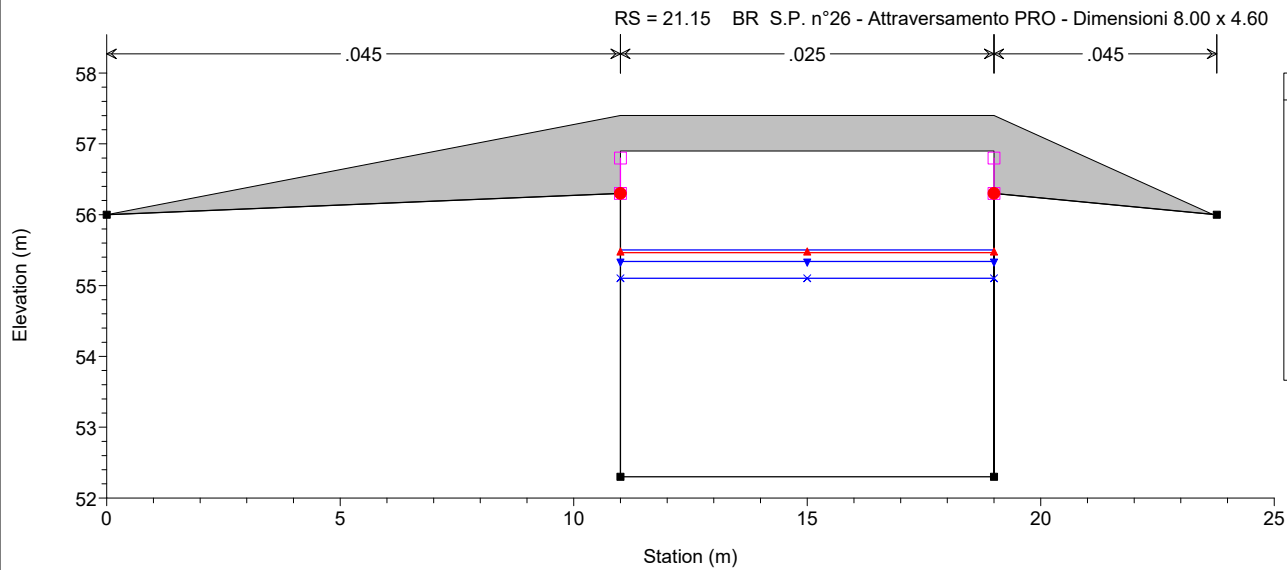
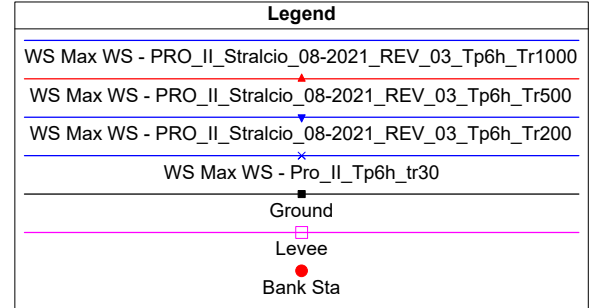
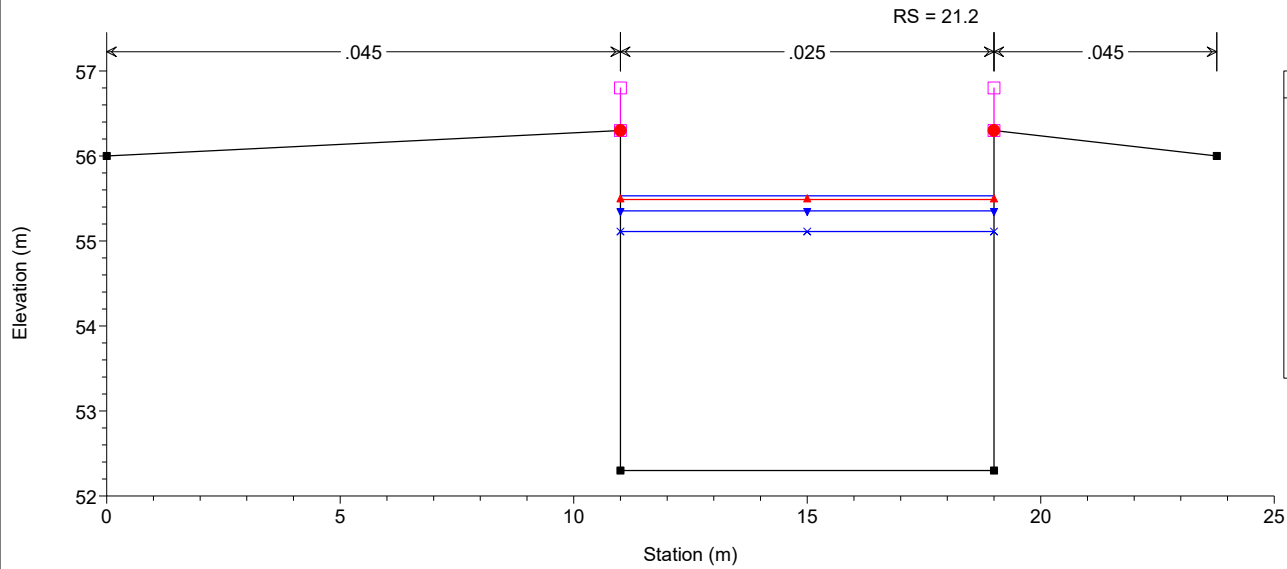
RS = 22 Risagomatura PRO e arginetto in destra a protezione di via Ruggie



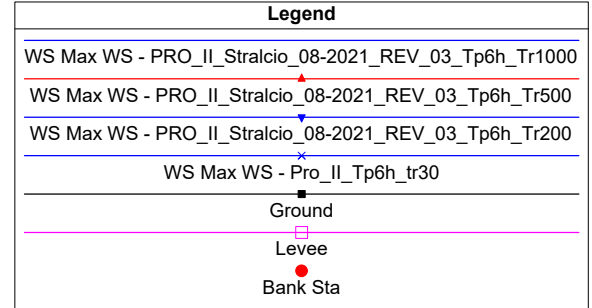
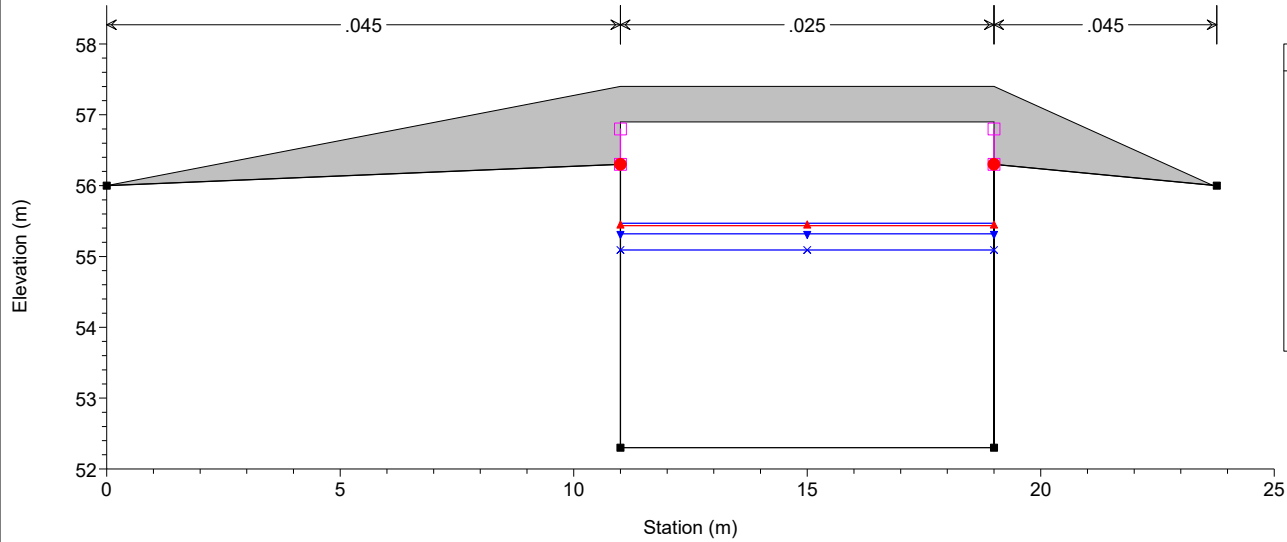
RS = 21.3 Ausiliaria monte attraversamento PRO S.P.



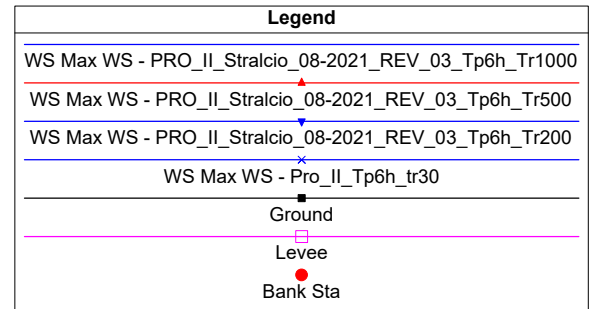
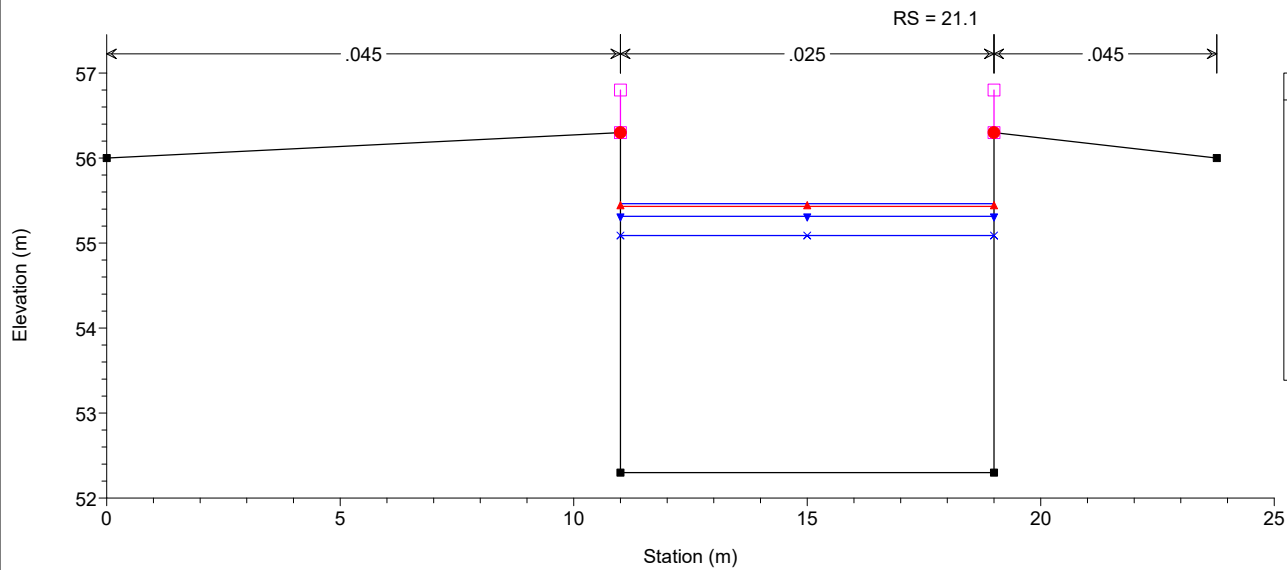




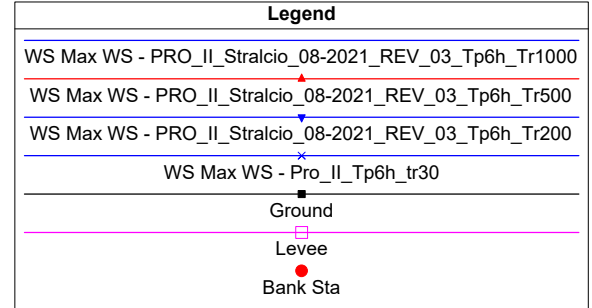
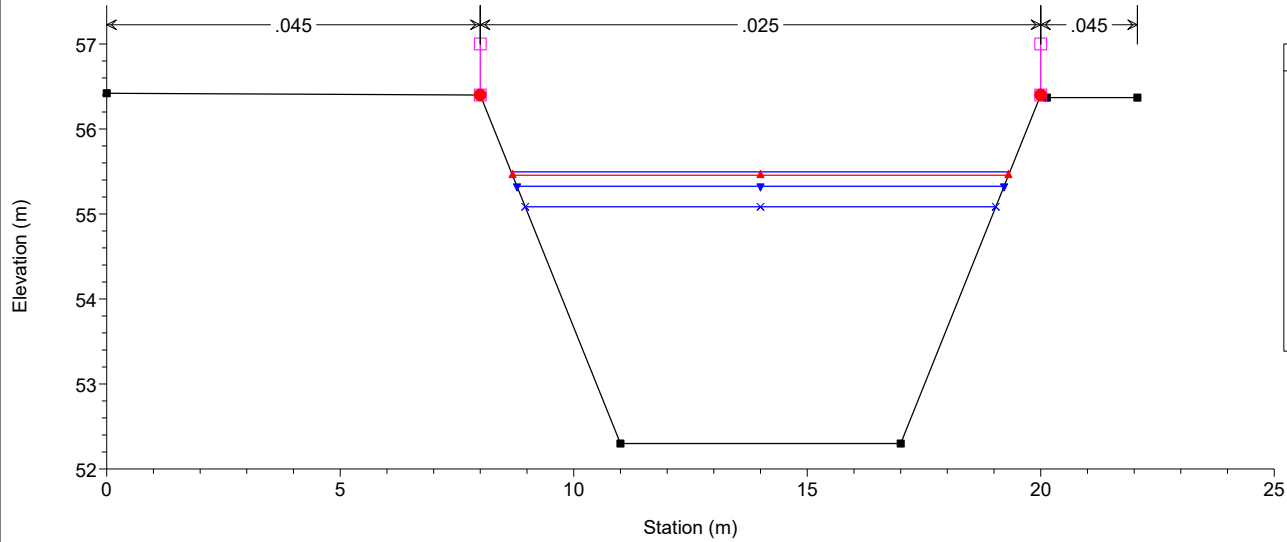
RS = 21.15 BR S.P. n°26 - Attraversamento PRO - Dimensioni 8.00 x 4.60



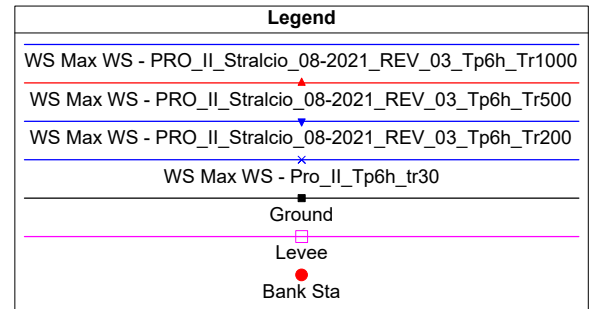
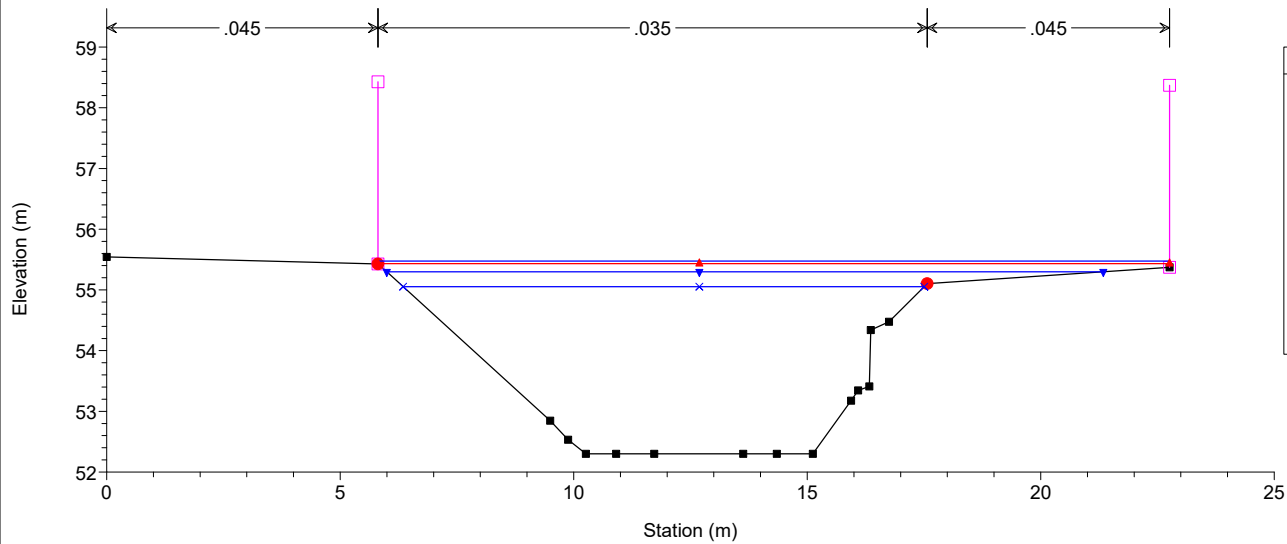
RS = 21.1

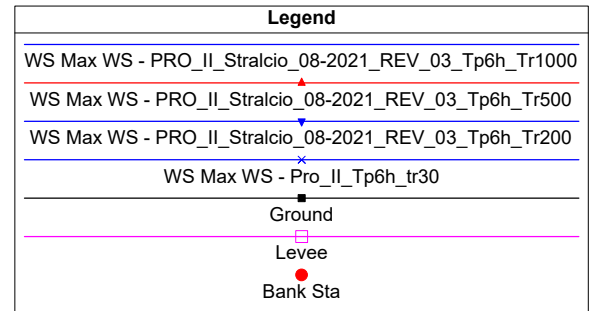
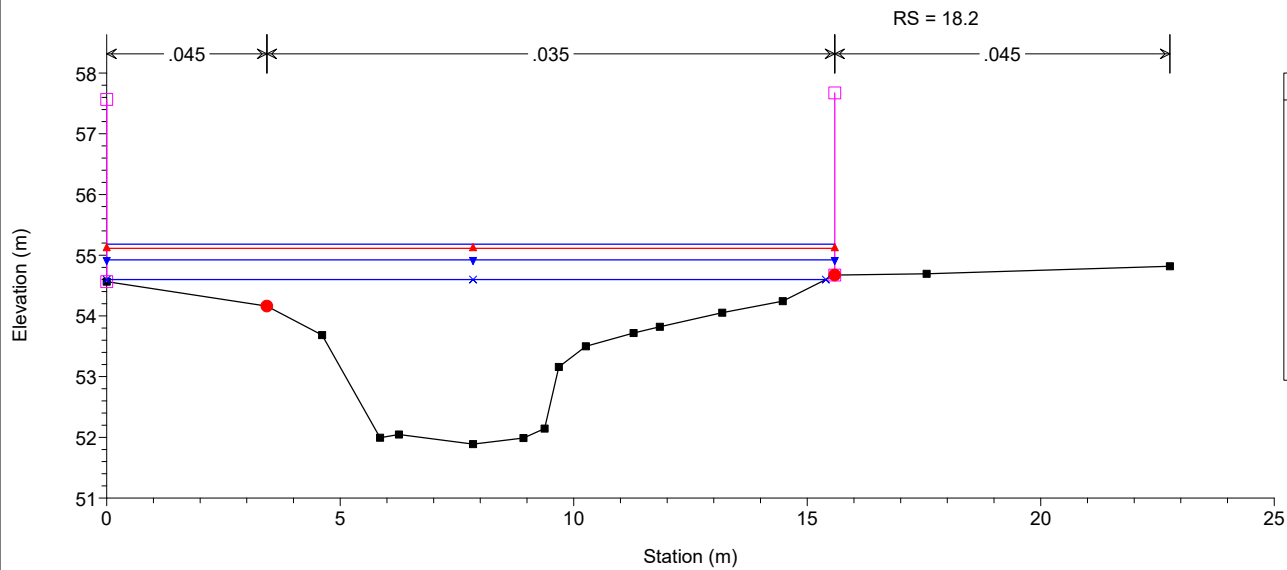
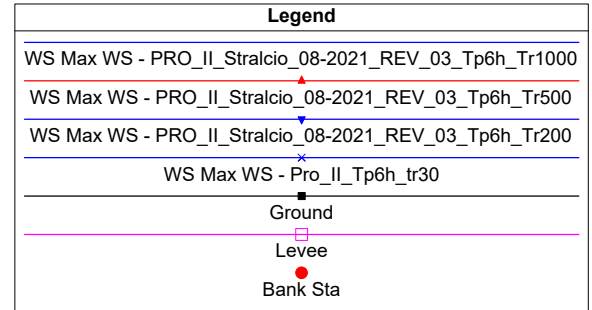
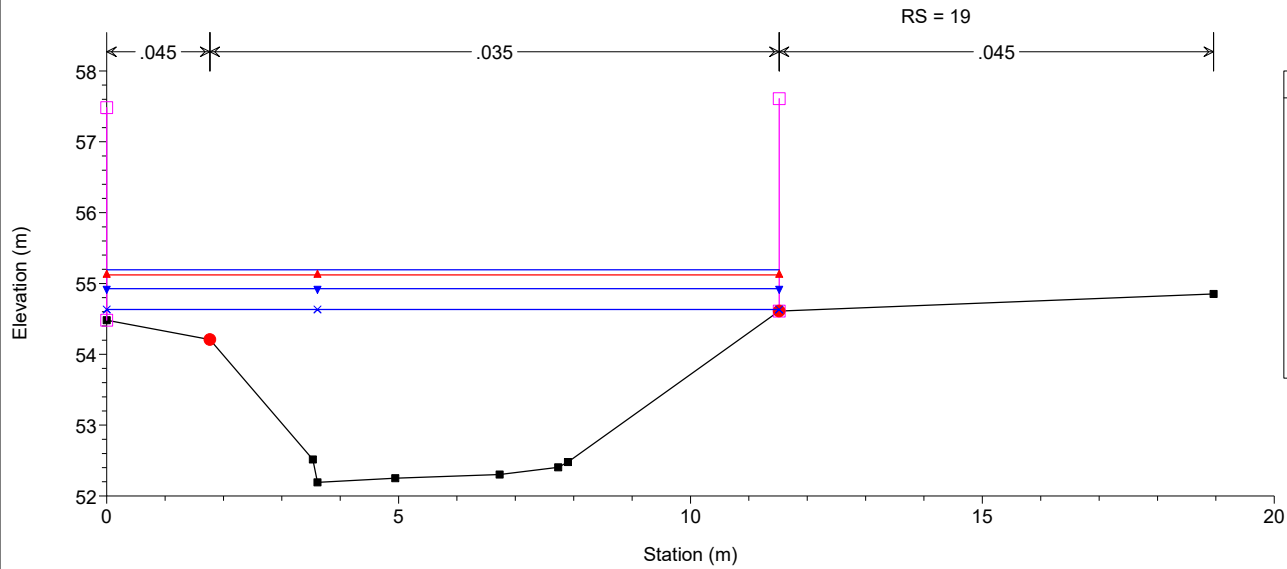


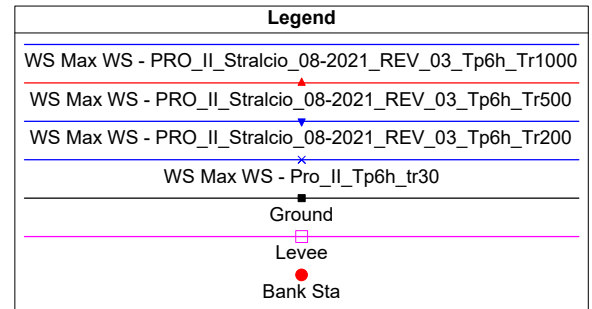
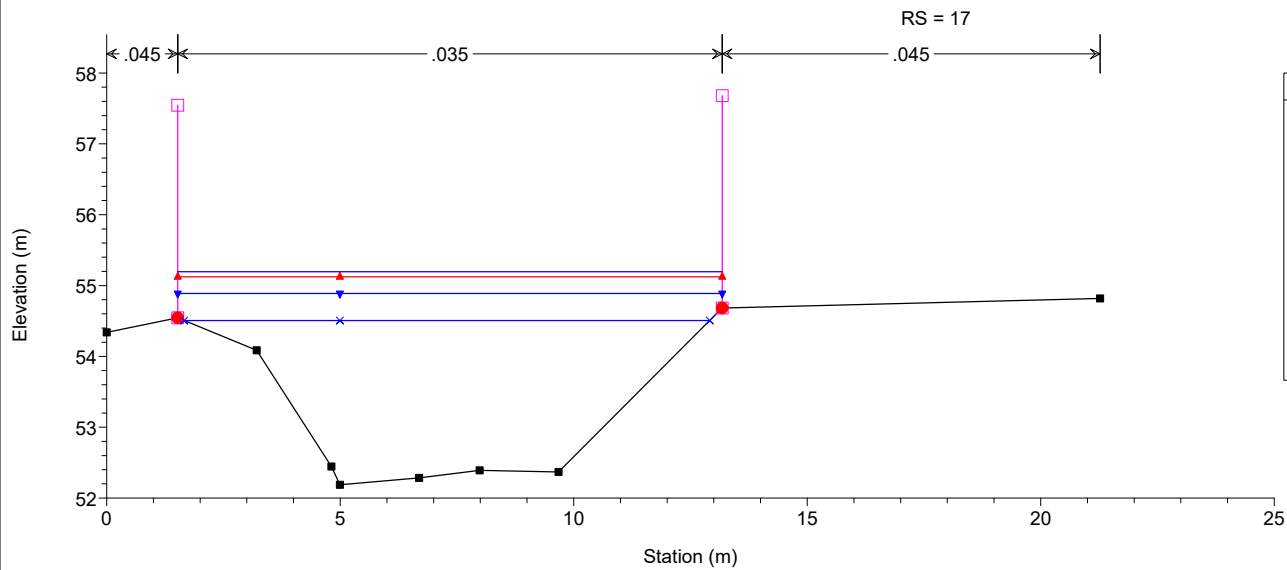
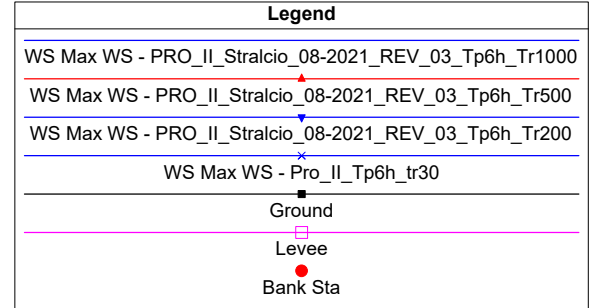
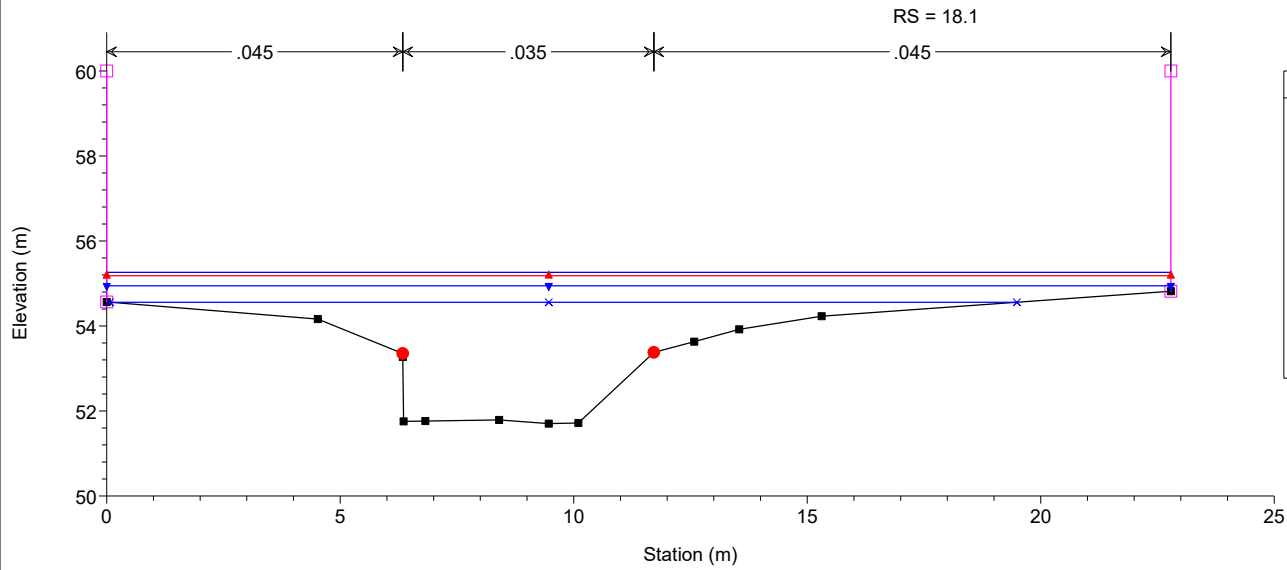
RS = 20.7 Ausiliaria valle attraversamento PRO S.P.



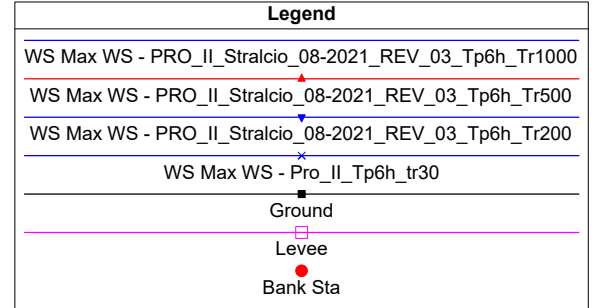
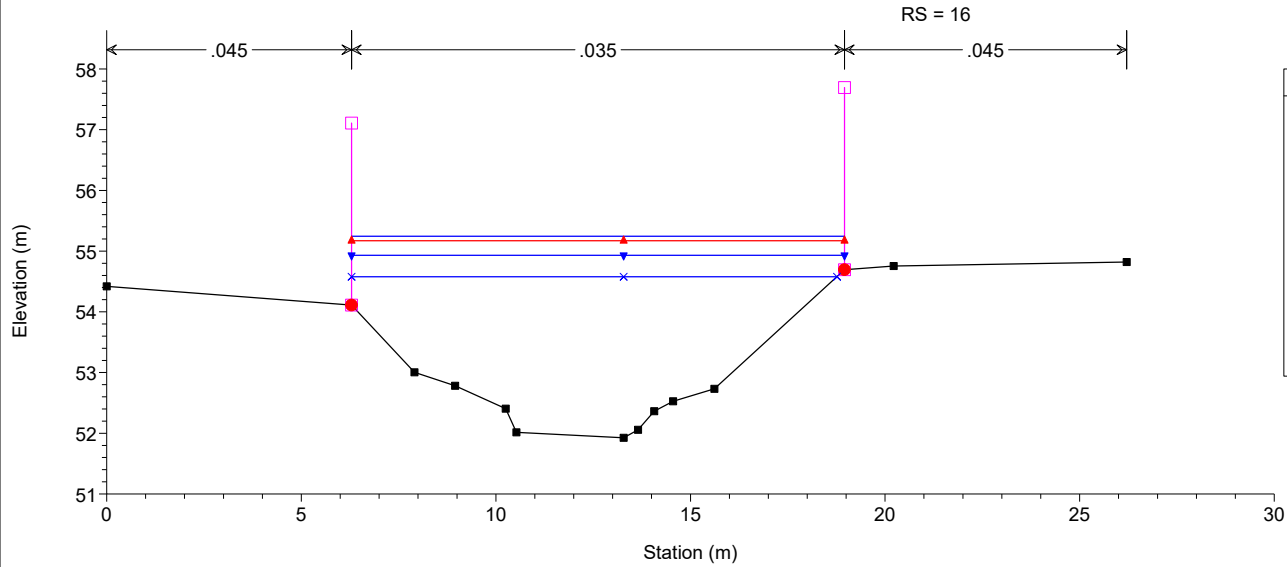
RS = 20



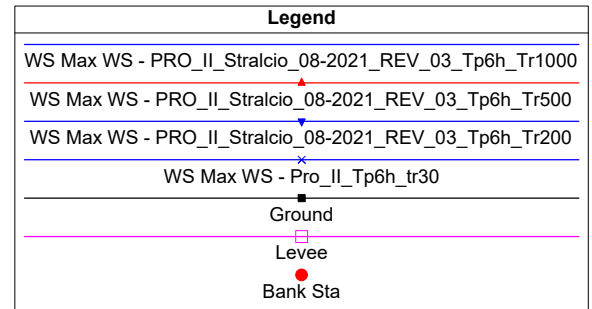
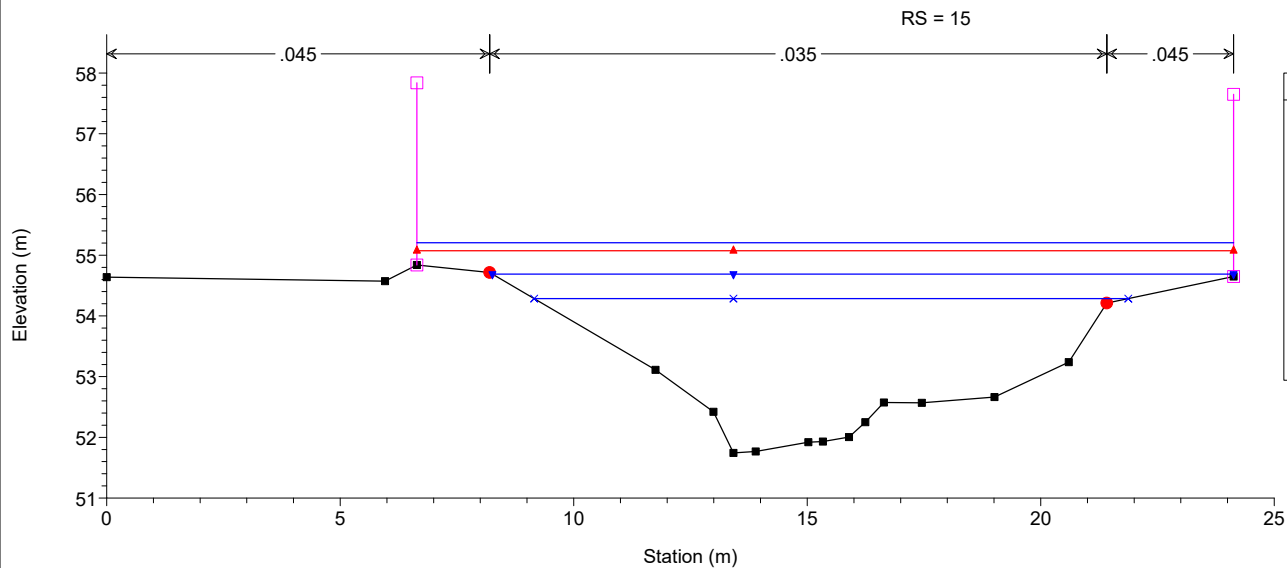




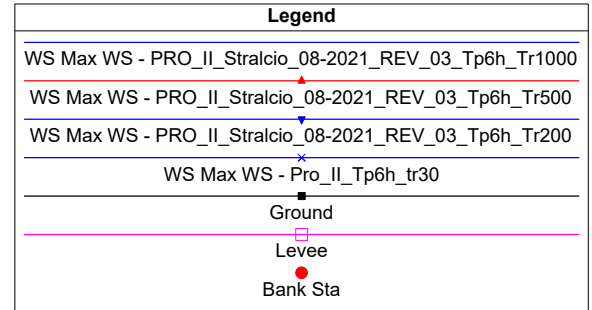
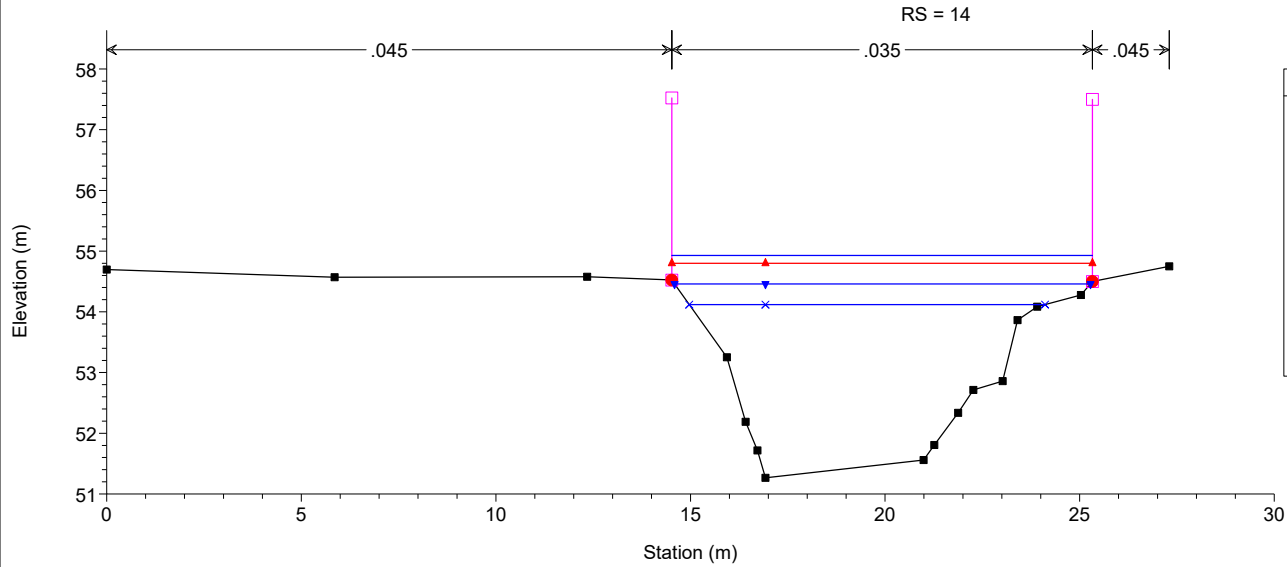
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



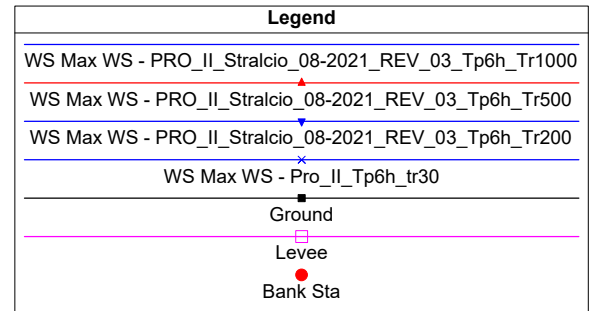
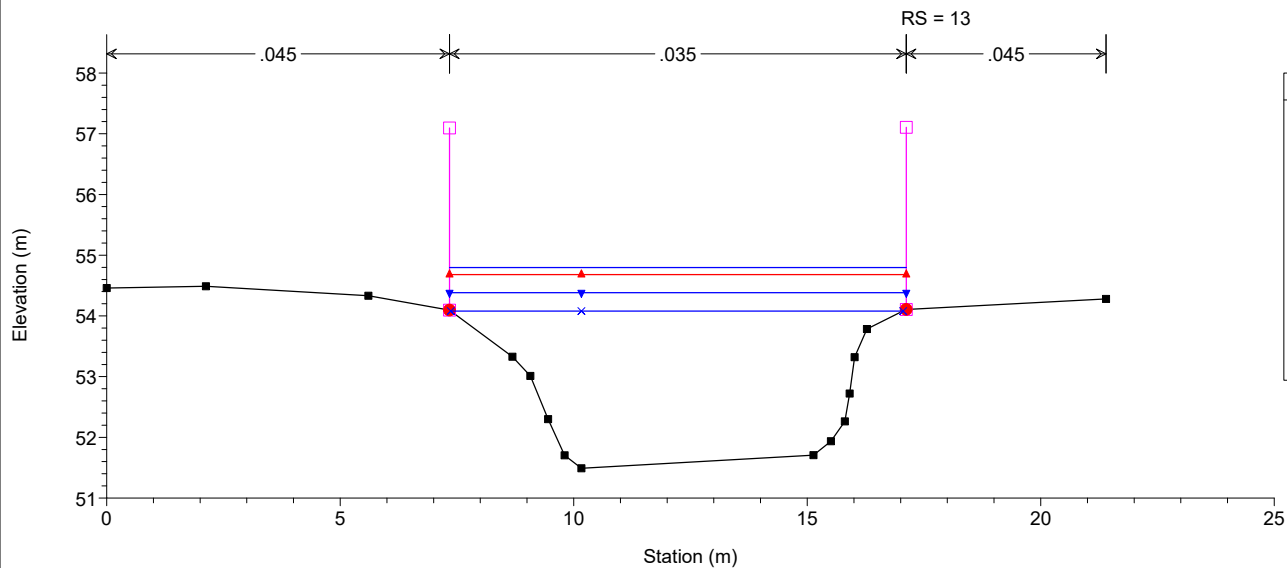
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



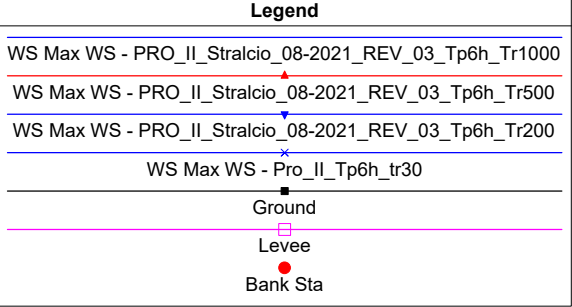
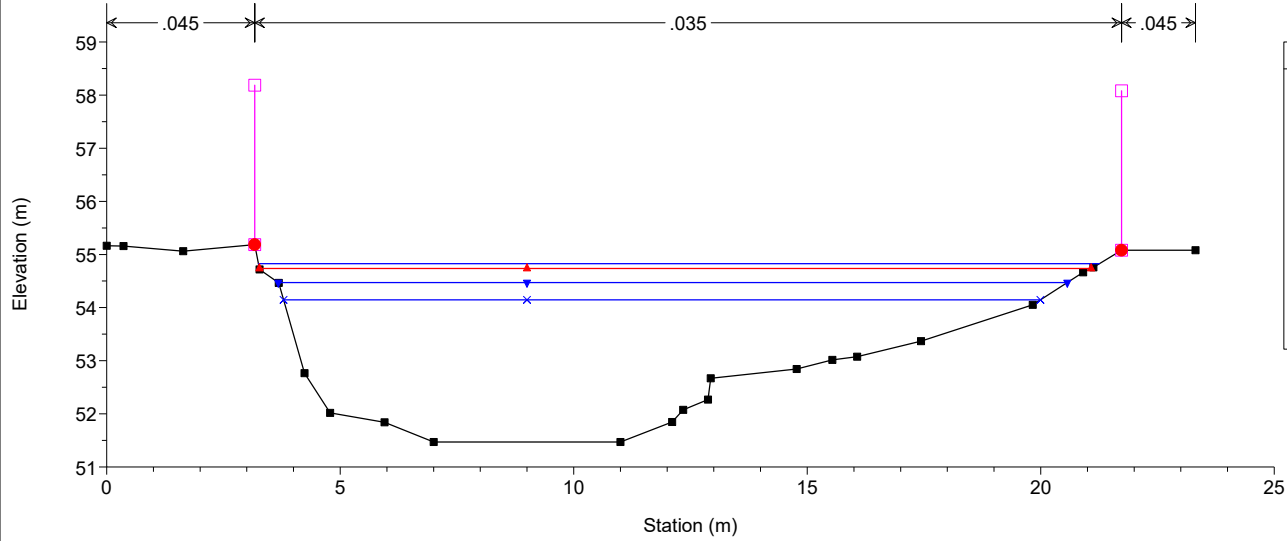
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



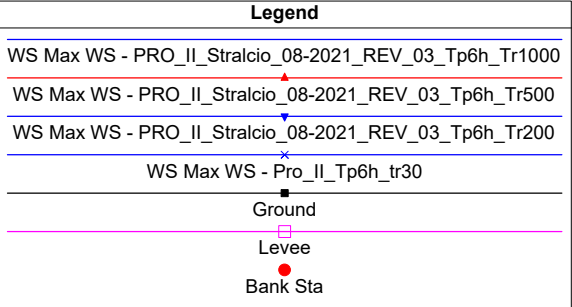
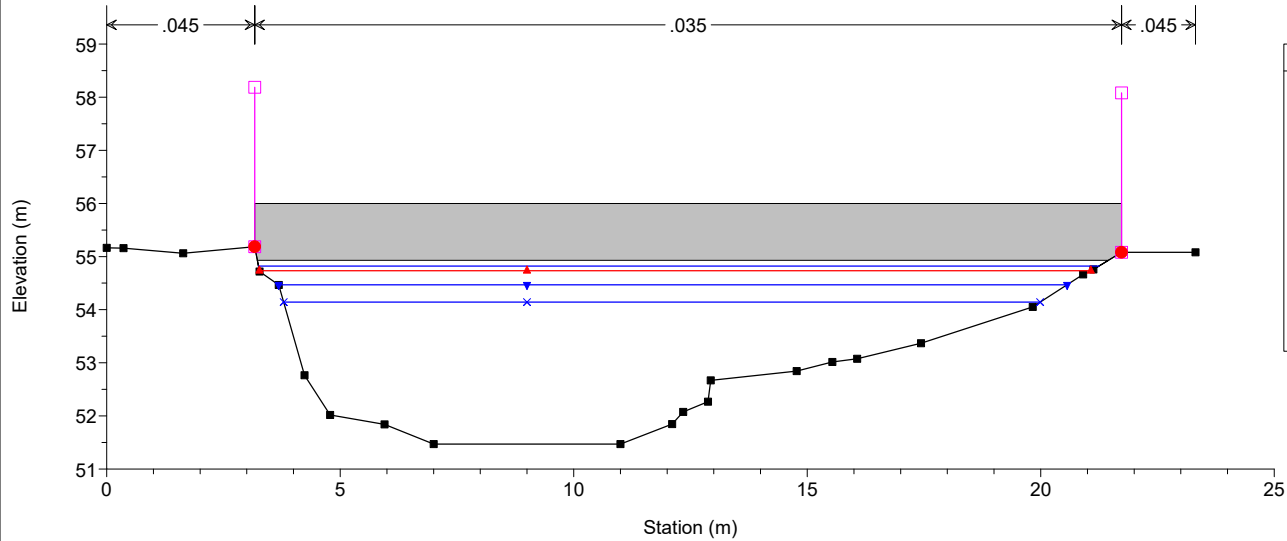
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



RS = 12.2

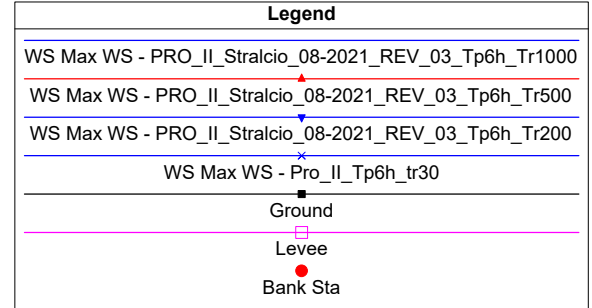
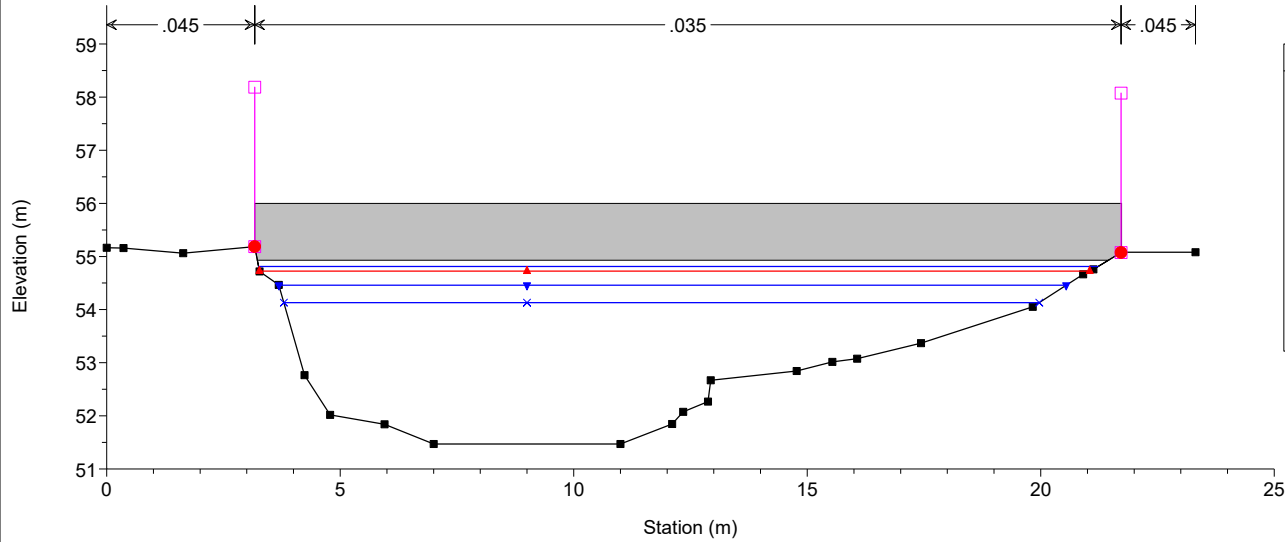


RS = 12.15 BR Spalletta di contenimento e intervento di ripulitura

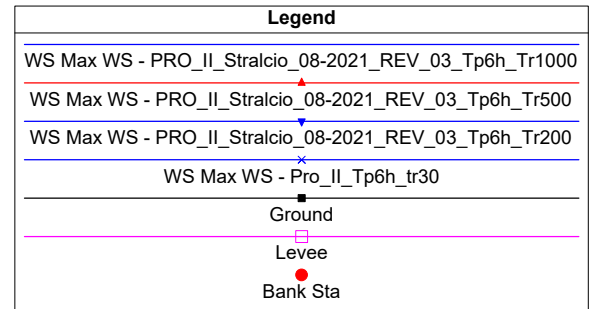
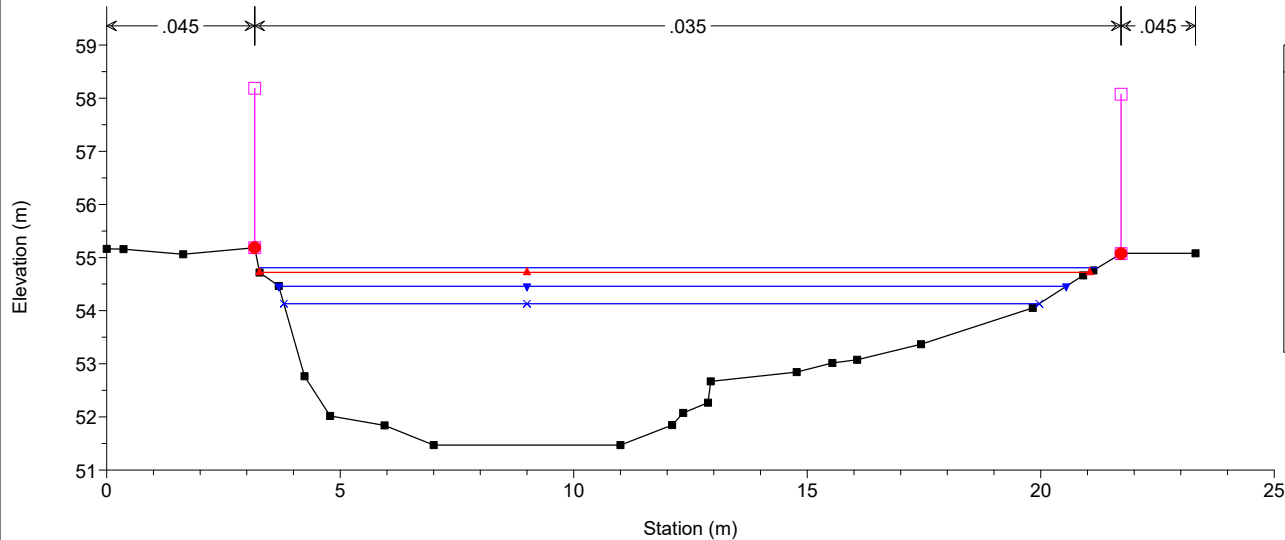




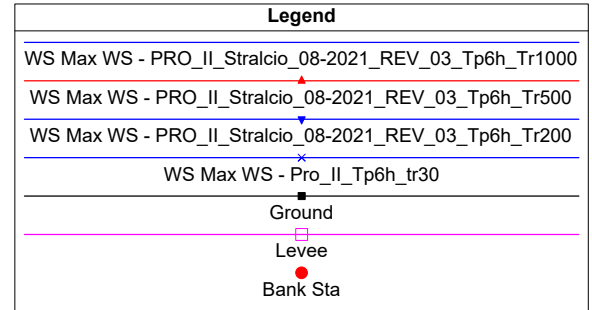
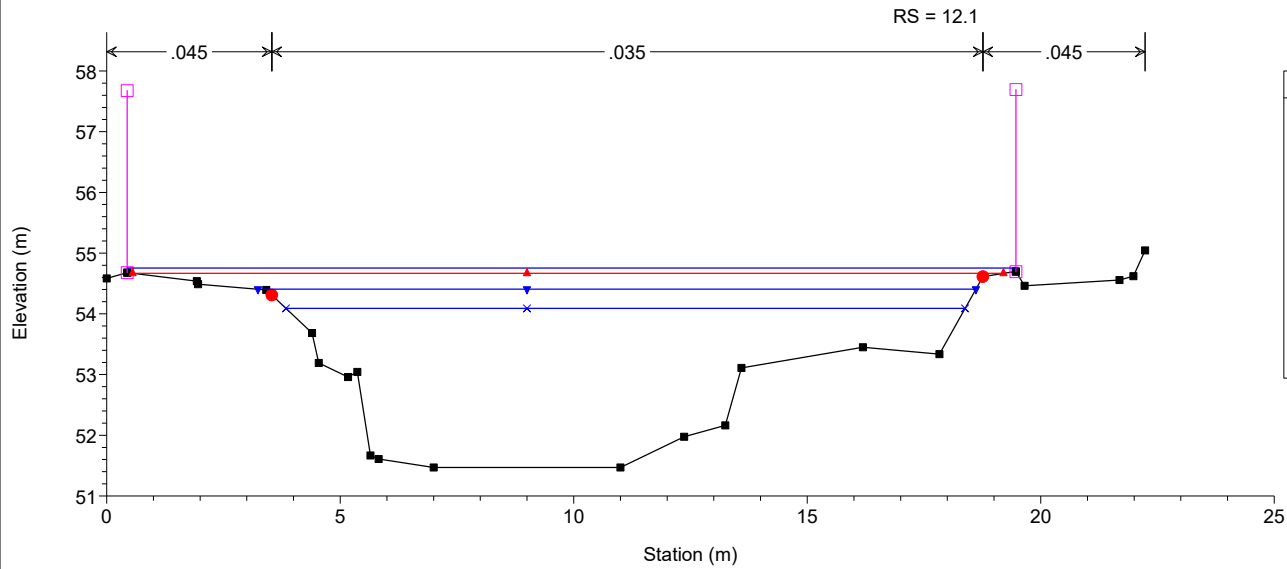
RS = 12.15 BR Spalletta di contenimento e intervento di ripulitura



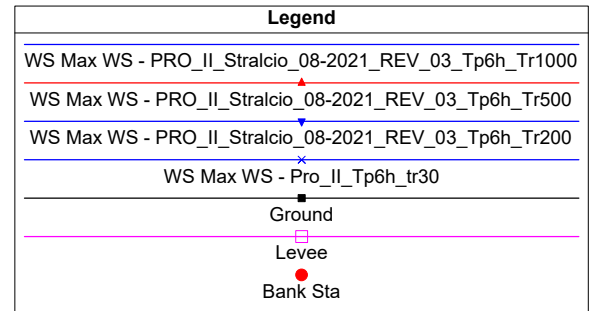
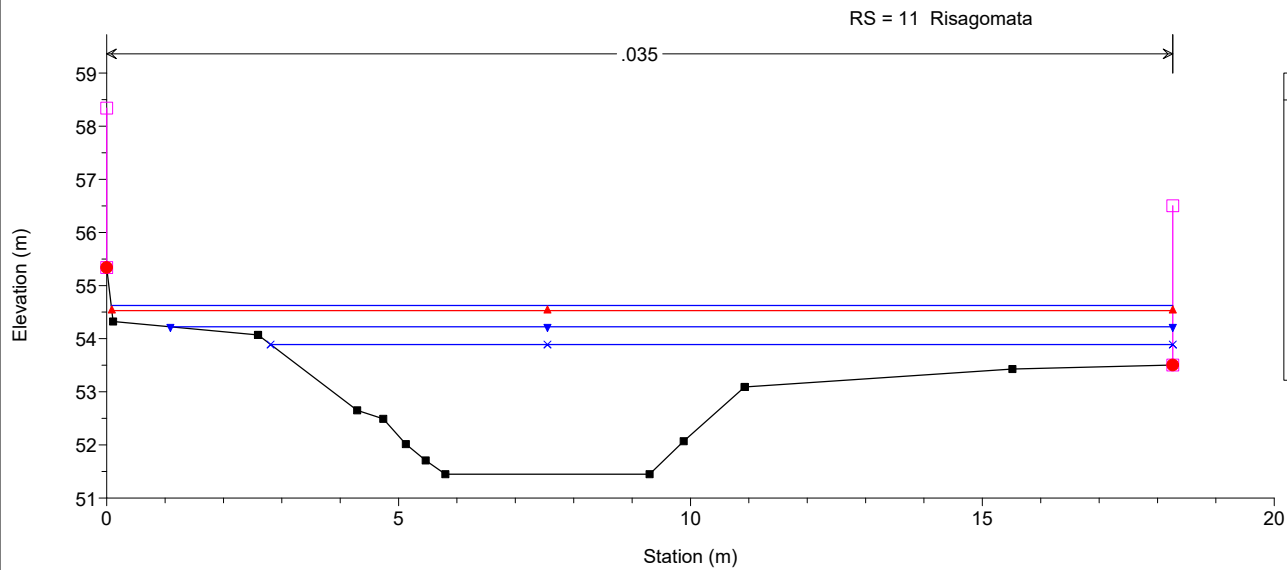
RS = 12.14



RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

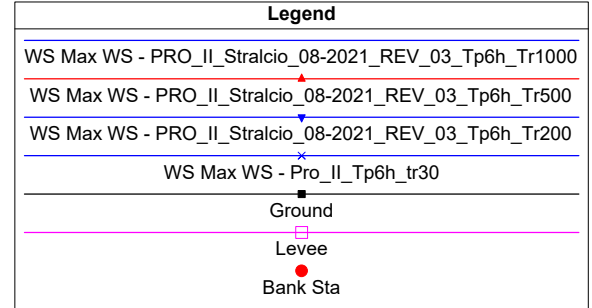
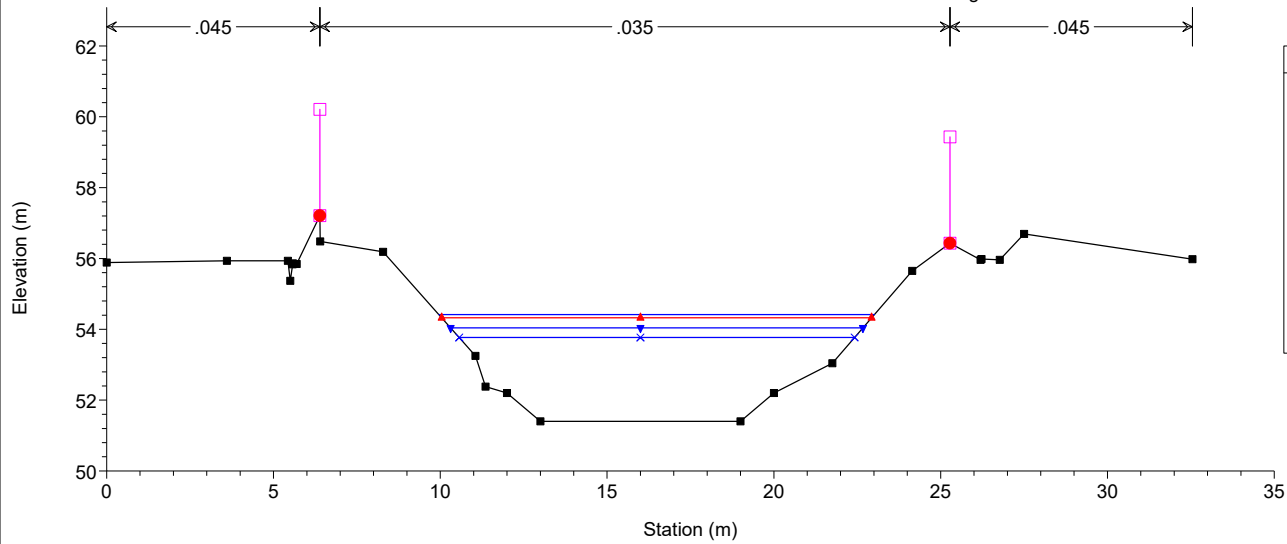


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



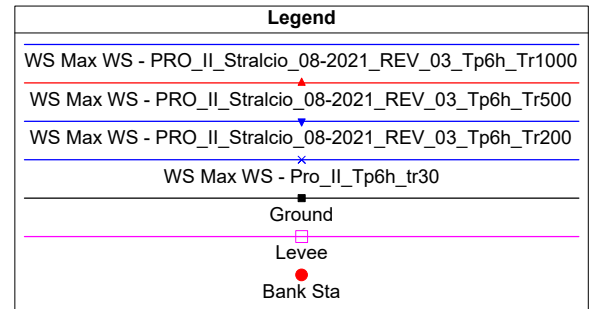
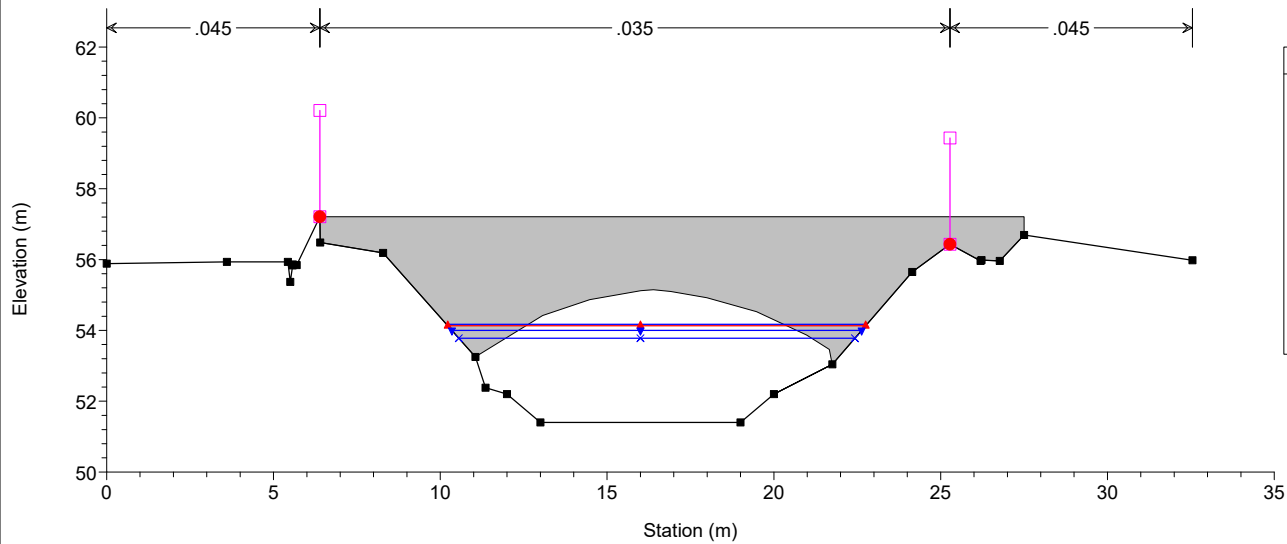
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

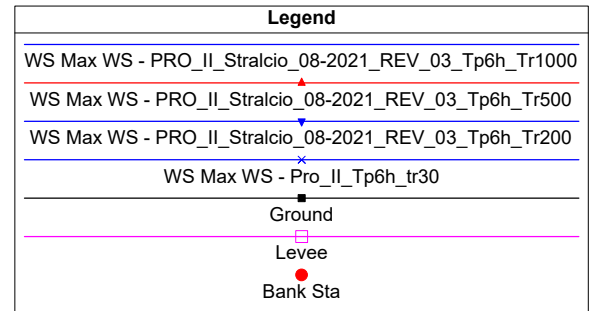
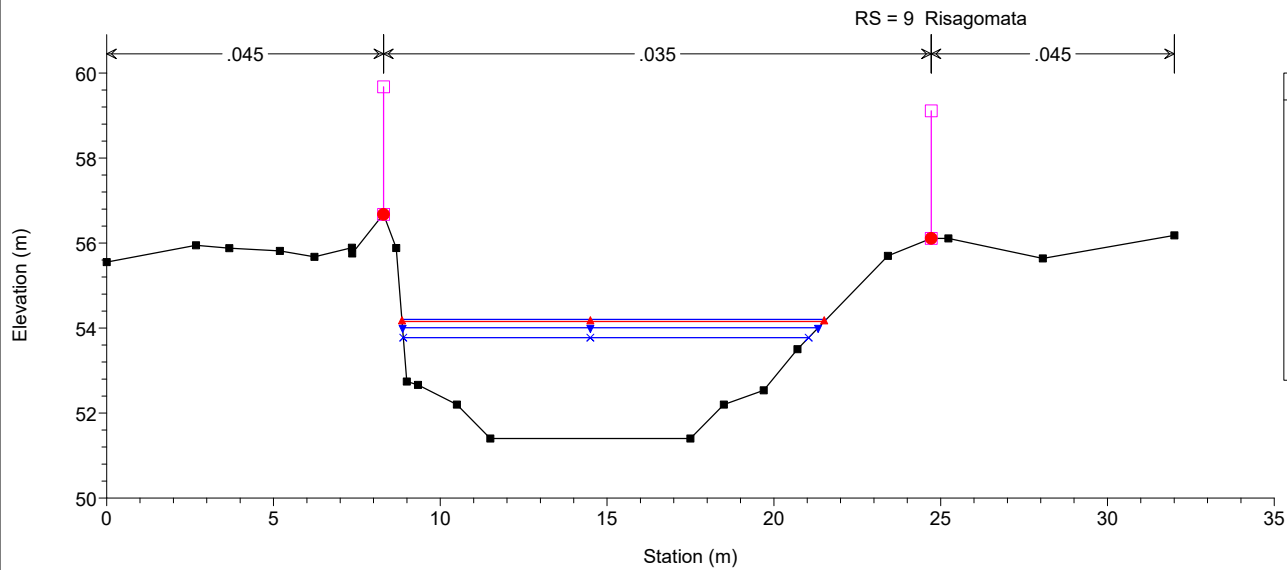
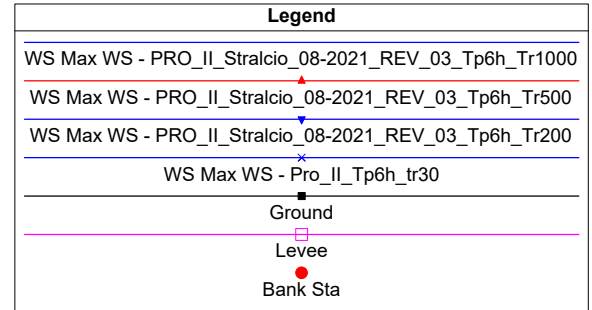
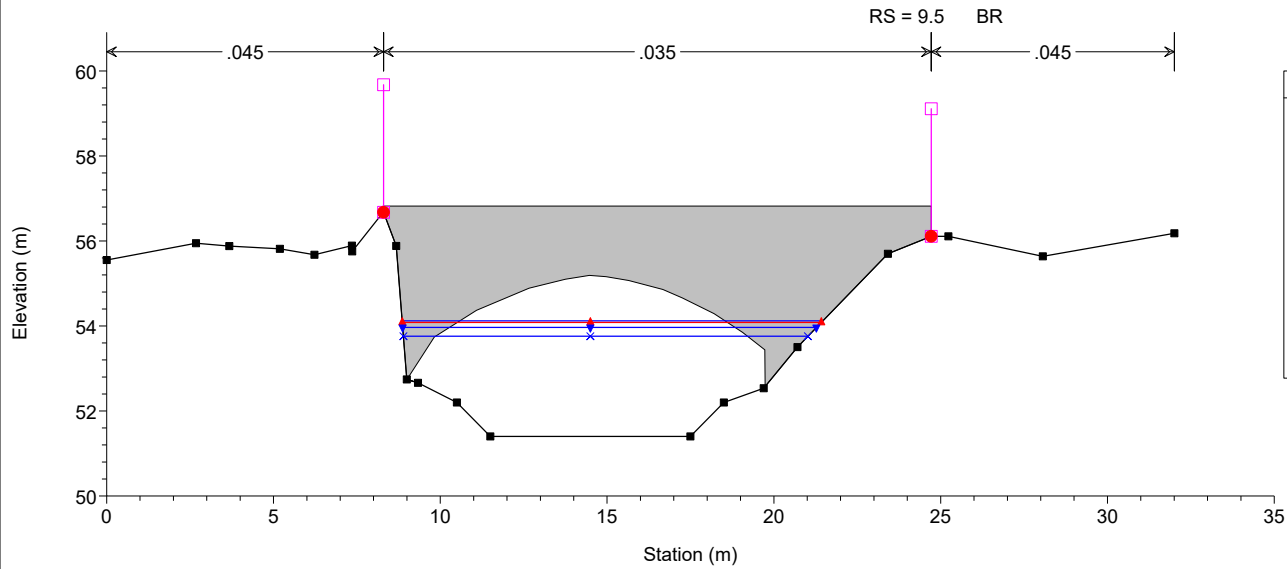
RS = 10 Risagomata



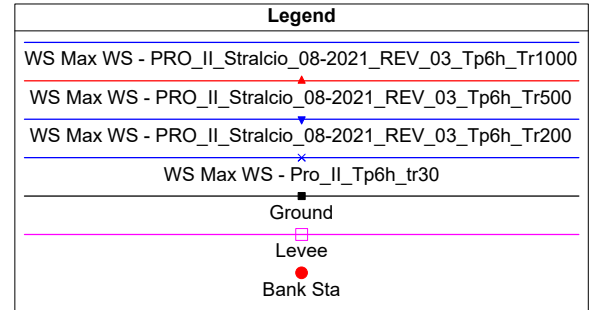
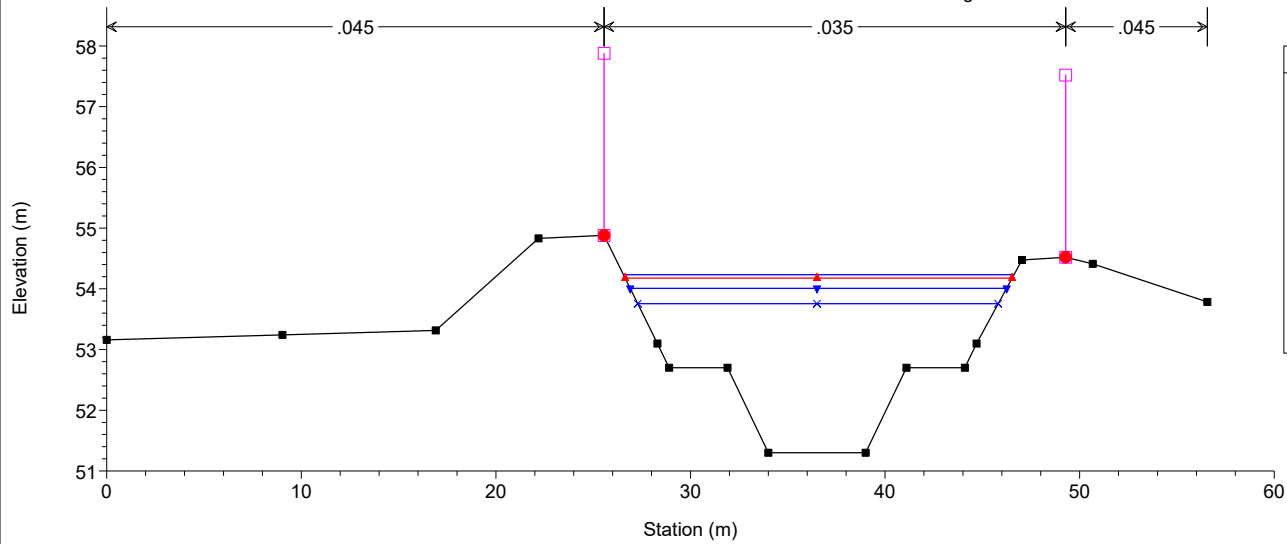
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 9.5 BR

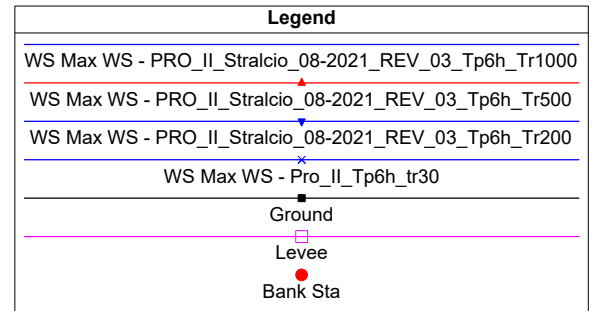
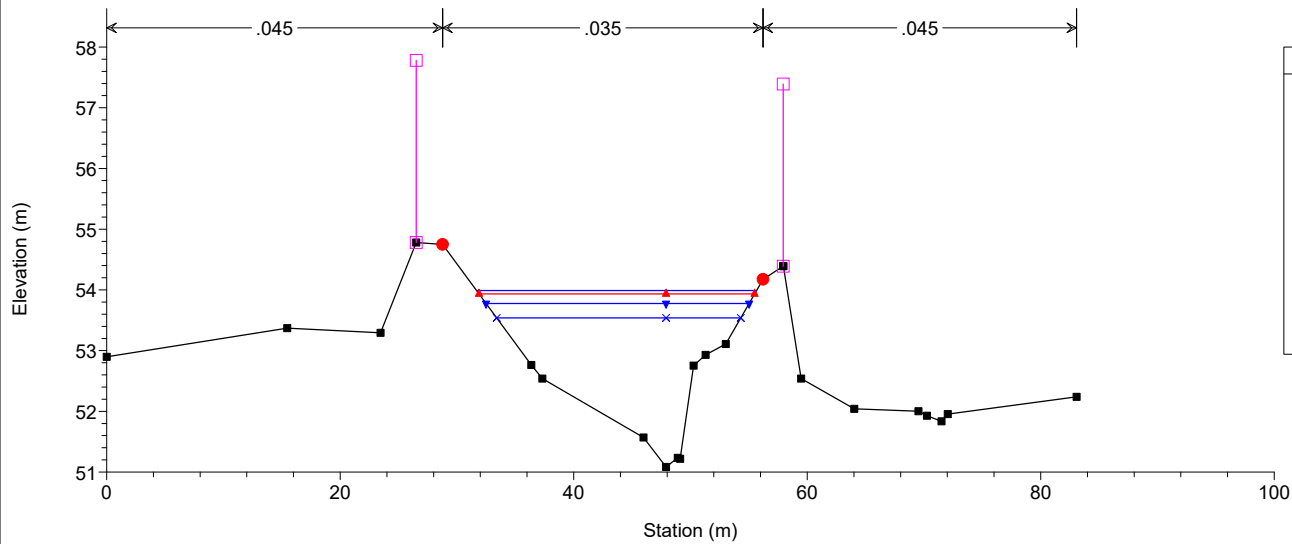




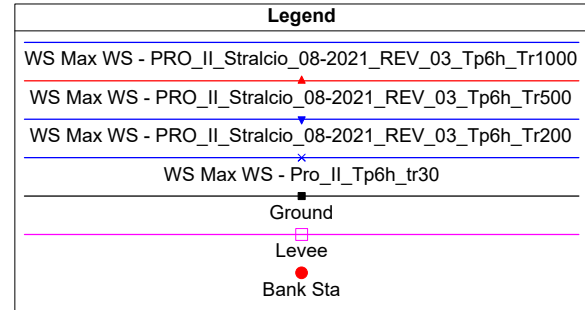
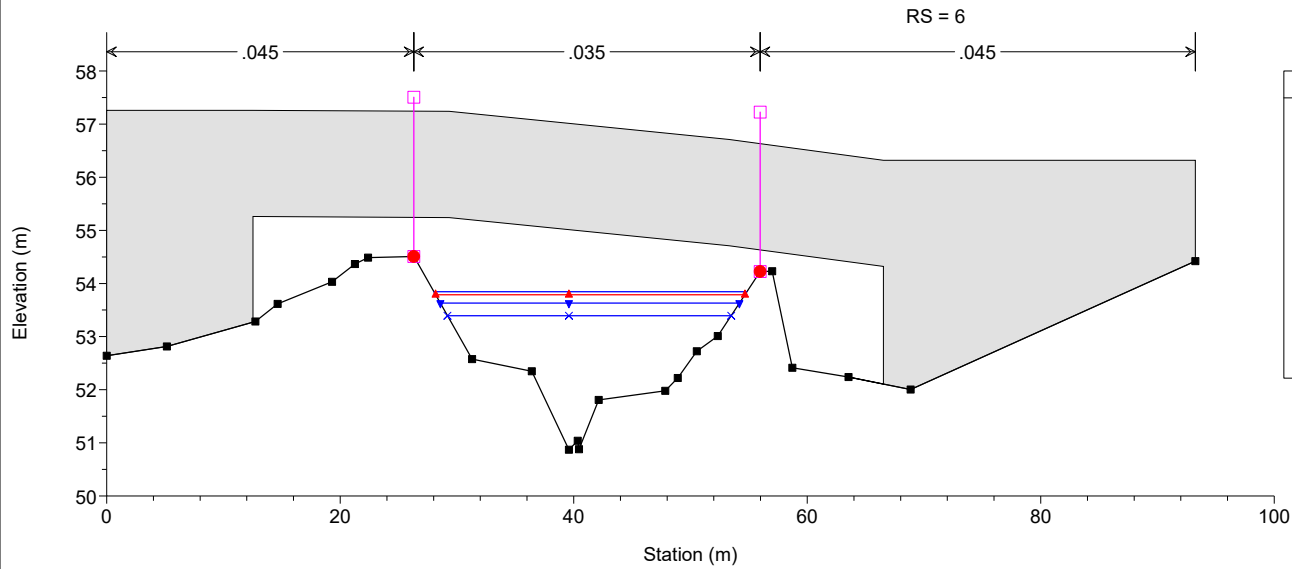
RS = 8 Risagomata



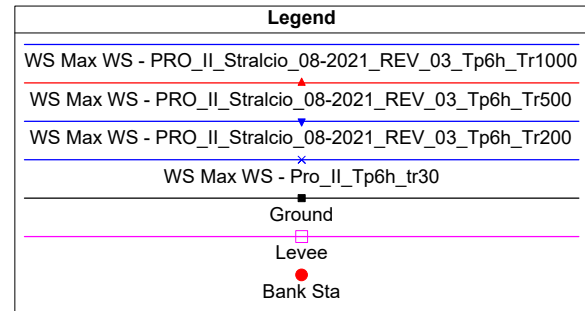
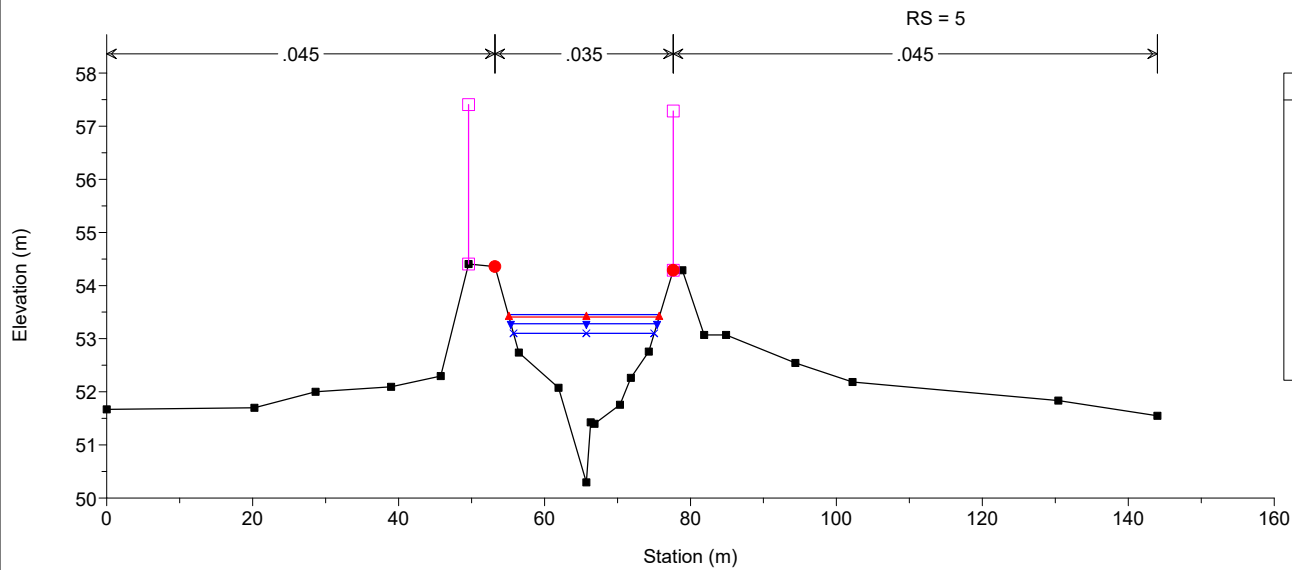
RS = 7

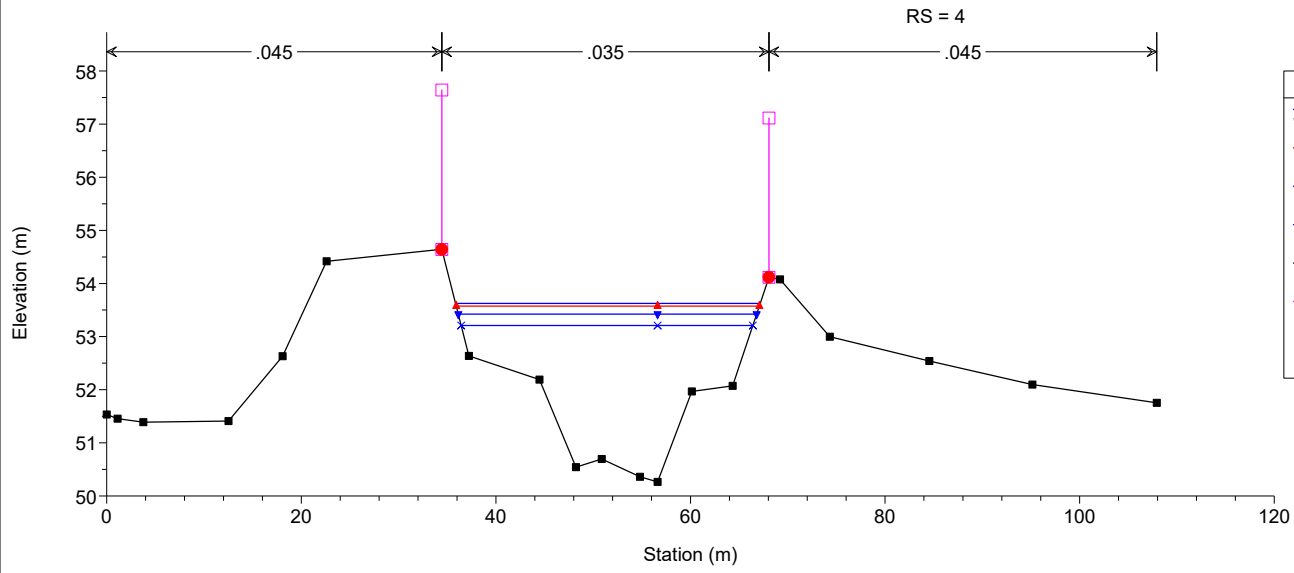


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023





Legend	
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	
WS Max WS - Pro_II_Tp6h_tr30	
Ground	
Levee	
Bank Sta	

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS

Reach	River Sta	Profile	Plan	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
Pietrosovalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	74.91	52.50	55.90		56.12	0.002562	2.10	35.75	18.73	0.48
Pietrosovalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.71	52.50	55.78		56.03	0.003052	2.23	33.52	18.28	0.53
Pietrosovalle	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.50	55.56		55.79	0.003017	2.11	29.70	17.46	0.52
Pietrosovalle	23	Max WS	Pro_II_Tp6h_tr30	46.73	52.50	55.23		55.42	0.003031	1.94	24.11	16.19	0.51
Pietrosovalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	74.90	52.50	55.90		56.12	0.002574	2.10	35.70	19.32	0.49
Pietrosovalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.71	52.50	55.77		56.03	0.003071	2.23	33.44	18.26	0.53
Pietrosovalle	22.99	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.50	55.56		55.79	0.003037	2.11	29.63	17.44	0.52
Pietrosovalle	22.99	Max WS	Pro_II_Tp6h_tr30	46.73	52.50	55.23		55.42	0.003054	1.94	24.04	16.18	0.51
Pietrosovalle	22.9			Lat Struct									
Pietrosovalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	74.88	52.40	55.90		56.09	0.001628	1.90	39.42	16.51	0.39
Pietrosovalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.70	52.40	55.79		55.99	0.001847	1.99	37.56	16.17	0.42
Pietrosovalle	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.40	55.58		55.75	0.001662	1.83	34.31	15.55	0.39
Pietrosovalle	22	Max WS	Pro_II_Tp6h_tr30	46.71	52.40	55.26		55.39	0.001406	1.59	29.42	14.58	0.36
Pietrosovalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	77.40	52.30	55.63		56.02	0.001958	2.78	27.87	10.75	0.55
Pietrosovalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.65	52.30	55.54		55.93	0.001991	2.77	26.98	10.63	0.55
Pietrosovalle	21.3	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.30	55.39		55.70	0.001666	2.47	25.34	10.41	0.51
Pietrosovalle	21.3	Max WS	Pro_II_Tp6h_tr30	46.67	52.30	55.12		55.34	0.001263	2.06	22.62	10.03	0.44
Pietrosovalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	78.96	52.30	55.53	54.45	56.01	0.002688	3.05	25.85	8.00	0.54
Pietrosovalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.65	52.30	55.49	54.37	55.93	0.002492	2.93	25.51	8.00	0.52
Pietrosovalle	21.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.30	55.35	54.14	55.69	0.001976	2.56	24.43	8.00	0.47
Pietrosovalle	21.2	Max WS	Pro_II_Tp6h_tr30	46.66	52.30	55.11	53.82	55.33	0.001380	2.08	22.48	8.00	0.40
Pietrosovalle	21.15			Bridge									
Pietrosovalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	78.95	52.30	55.46		55.96	0.002848	3.12	25.31	8.00	0.56
Pietrosovalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.65	52.30	55.43		55.88	0.002621	2.98	25.04	8.00	0.54
Pietrosovalle	21.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.30	55.32		55.66	0.002047	2.60	24.12	8.00	0.48
Pietrosovalle	21.1	Max WS	Pro_II_Tp6h_tr30	46.67	52.30	55.09		55.31	0.001411	2.09	22.30	8.00	0.40
Pietrosovalle	21.09			Lat Struct									
Pietrosovalle	21.08			Lat Struct									
Pietrosovalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	78.95	52.30	55.50		55.94	0.002308	2.96	26.65	10.68	0.60
Pietrosovalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.65	52.30	55.46		55.87	0.002155	2.85	26.23	10.62	0.58
Pietrosovalle	20.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.30	55.33		55.65	0.001759	2.52	24.86	10.43	0.52
Pietrosovalle	20.7	Max WS	Pro_II_Tp6h_tr30	46.67	52.30	55.08		55.31	0.001304	2.09	22.38	10.07	0.45
Pietrosovalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	78.95	52.30	55.48		55.91	0.004614	2.93	27.95	16.95	0.62
Pietrosovalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.64	52.30	55.43		55.84	0.004392	2.83	27.23	16.95	0.60



HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Pietrosovalle	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	52.30	55.30		55.63	0.003766	2.54	24.99	15.34	0.56
Pietrosovalle	20	Max WS	Pro_II_Tp6h_tr30	46.67	52.30	55.05		55.29	0.002975	2.14	21.85	11.16	0.49
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	68.01	52.19	55.19		55.65	0.004963	3.03	23.41	11.52	0.65
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	65.24	52.19	55.12		55.57	0.005070	3.01	22.58	11.52	0.65
Pietrosovalle	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	57.36	52.19	54.93		55.35	0.005296	2.92	20.34	11.52	0.66
Pietrosovalle	19	Max WS	Pro_II_Tp6h_tr30	46.17	52.19	54.63		55.03	0.005783	2.79	16.94	11.52	0.69
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	69.44	51.89	55.18		55.56	0.004980	2.78	26.54	15.59	0.64
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	66.29	51.89	55.11		55.49	0.005125	2.76	25.46	15.59	0.64
Pietrosovalle	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	58.00	51.89	54.92		55.29	0.005623	2.72	22.50	15.59	0.67
Pietrosovalle	18.2	Max WS	Pro_II_Tp6h_tr30	46.00	51.89	54.60		54.97	0.007198	2.73	17.45	15.40	0.74
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	66.82	51.70	55.26		55.54	0.002915	2.68	34.92	22.79	0.47
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	63.60	51.70	55.18		55.47	0.003020	2.69	33.12	22.79	0.48
Pietrosovalle	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	57.13	51.70	54.95		55.28	0.003737	2.84	27.72	22.79	0.53
Pietrosovalle	18.1	Max WS	Pro_II_Tp6h_tr30	45.99	51.70	54.56		54.97	0.005037	3.00	19.33	19.42	0.60
Pietrosovalle	18.09			Lat Struct									
Pietrosovalle	18.08			Lat Struct									
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	62.48	52.19	55.20		55.53	0.003966	2.56	24.43	11.66	0.56
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	59.49	52.19	55.12		55.45	0.003981	2.52	23.60	11.66	0.57
Pietrosovalle	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	55.28	52.19	54.89		55.25	0.004965	2.65	20.85	11.66	0.63
Pietrosovalle	17	Max WS	Pro_II_Tp6h_tr30	45.99	52.19	54.51		54.91	0.006868	2.80	16.43	11.25	0.74
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	65.87	51.93	55.24		55.49	0.002428	2.18	30.21	12.67	0.45
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	62.34	51.93	55.17		55.40	0.002387	2.13	29.27	12.67	0.45
Pietrosovalle	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	57.38	51.93	54.93		55.17	0.002791	2.19	26.24	12.67	0.49
Pietrosovalle	16	Max WS	Pro_II_Tp6h_tr30	46.28	51.93	54.58		54.81	0.003135	2.12	21.79	12.47	0.51
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	65.06	51.74	55.21		55.42	0.002049	2.08	33.13	17.49	0.44
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	64.78	51.74	55.07		55.32	0.002499	2.21	30.84	17.49	0.48
Pietrosovalle	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	59.80	51.74	54.69		55.01	0.004219	2.53	24.22	15.87	0.60
Pietrosovalle	15	Max WS	Pro_II_Tp6h_tr30	46.65	51.74	54.29		54.61	0.005377	2.53	18.42	12.72	0.66
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	70.94	51.26	54.93		55.32	0.004415	2.76	25.70	10.81	0.57
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	69.03	51.26	54.80		55.21	0.004906	2.84	24.33	10.81	0.60
Pietrosovalle	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	61.08	51.26	54.46		54.91	0.006176	2.96	20.66	10.69	0.68
Pietrosovalle	14	Max WS	Pro_II_Tp6h_tr30	46.65	51.26	54.12		54.49	0.005517	2.71	17.21	9.14	0.63
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	73.51	51.49	54.80		55.26	0.005222	3.02	24.32	9.78	0.61
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	70.99	51.49	54.68		55.16	0.005581	3.06	23.18	9.78	0.64
Pietrosovalle	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	61.85	51.49	54.38		54.86	0.006244	3.05	20.27	9.78	0.68

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

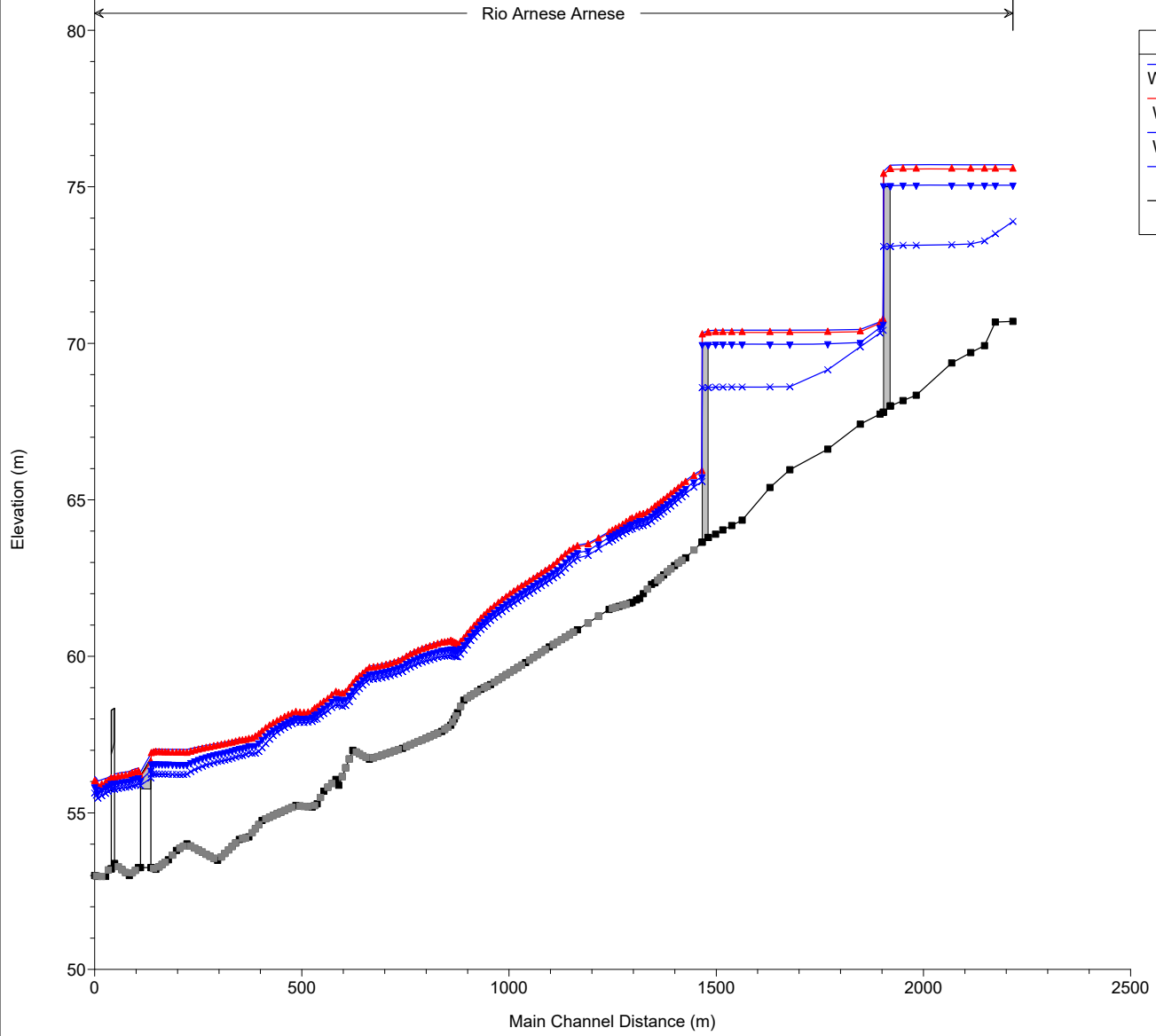
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pietrosovalle	13	Max WS	Pro_II_Tp6h_tr30	46.64	51.49	54.08		54.45	0.005588	2.69	17.32	9.68	0.64
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.30	51.47	54.83	53.71	55.03	0.002084	2.01	39.55	18.01	0.43
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.94	51.47	54.74	53.64	54.94	0.002095	1.97	37.96	17.81	0.43
Pietrosovalle	12.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.47	54.47	53.46	54.65	0.002095	1.88	33.37	16.90	0.43
Pietrosovalle	12.2	Max WS	Pro_II_Tp6h_tr30	46.64	51.47	54.14	53.19	54.29	0.001951	1.67	27.95	16.20	0.41
Pietrosovalle	12.15			Bridge									
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.30	51.47	54.81		55.02	0.002126	2.02	39.28	17.97	0.44
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.94	51.47	54.72		54.92	0.002133	1.99	37.71	17.78	0.44
Pietrosovalle	12.14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.47	54.46		54.64	0.002138	1.89	33.13	16.86	0.43
Pietrosovalle	12.14	Max WS	Pro_II_Tp6h_tr30	46.64	51.47	54.13		54.28	0.001995	1.68	27.74	16.18	0.41
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.29	51.47	54.75		55.02	0.002809	2.30	35.20	19.03	0.49
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.93	51.47	54.67		54.93	0.002870	2.26	33.56	18.65	0.49
Pietrosovalle	12.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.47	54.41		54.64	0.003028	2.15	29.12	15.37	0.49
Pietrosovalle	12.1	Max WS	Pro_II_Tp6h_tr30	46.64	51.47	54.09		54.28	0.002847	1.91	24.42	14.54	0.47
Pietrosovalle	12.08			Lat Struct									
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.22	51.45	54.62		54.95	0.004655	2.53	31.36	18.19	0.61
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.83	51.45	54.53		54.85	0.004966	2.53	29.62	18.17	0.63
Pietrosovalle	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.45	54.22		54.57	0.006239	2.60	24.14	17.17	0.70
Pietrosovalle	11	Max WS	Pro_II_Tp6h_tr30	46.64	51.45	53.89		54.20	0.006806	2.48	18.82	15.45	0.72
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.18	51.40	54.41	53.57	54.77	0.003635	2.66	29.80	13.05	0.56
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.79	51.40	54.33	53.50	54.67	0.003621	2.61	28.65	12.89	0.56
Pietrosovalle	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.40	54.04	53.29	54.36	0.003708	2.50	25.05	12.36	0.56
Pietrosovalle	10	Max WS	Pro_II_Tp6h_tr30	46.64	51.40	53.77	53.00	54.00	0.003066	2.14	21.76	11.85	0.51
Pietrosovalle	9.5			Bridge									
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.18	51.40	54.20		54.61	0.004411	2.83	27.99	12.72	0.61
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.79	51.40	54.15		54.53	0.004196	2.73	27.37	12.65	0.59
Pietrosovalle	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.40	54.01		54.31	0.003595	2.46	25.52	12.46	0.55
Pietrosovalle	9	Max WS	Pro_II_Tp6h_tr30	46.64	51.40	53.77		53.99	0.002796	2.06	22.68	12.15	0.48
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.17	51.30	54.23		54.47	0.002791	2.14	36.92	20.07	0.50
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.76	51.30	54.18		54.40	0.002727	2.09	35.78	19.89	0.50
Pietrosovalle	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.30	54.01		54.20	0.002536	1.93	32.50	19.34	0.47
Pietrosovalle	8	Max WS	Pro_II_Tp6h_tr30	46.64	51.30	53.76		53.90	0.002247	1.68	27.70	18.52	0.44
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.13	51.09	53.99		54.24	0.003763	2.21	35.77	23.98	0.58
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.70	51.09	53.94		54.17	0.003717	2.17	34.47	23.61	0.57

HEC-RAS River: Rio Pietroso Reach: Pietrosovalle Profile: Max WS (Continued)

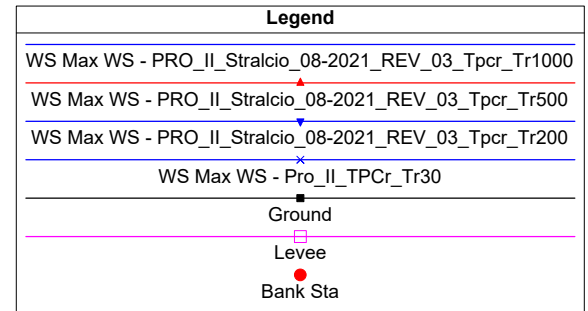
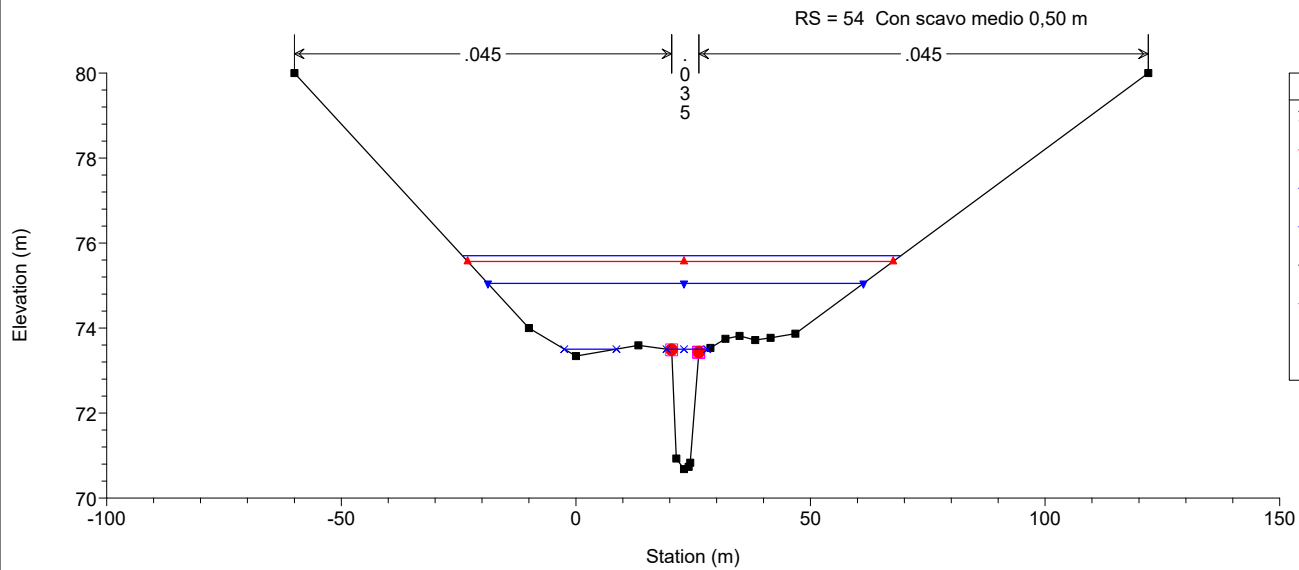
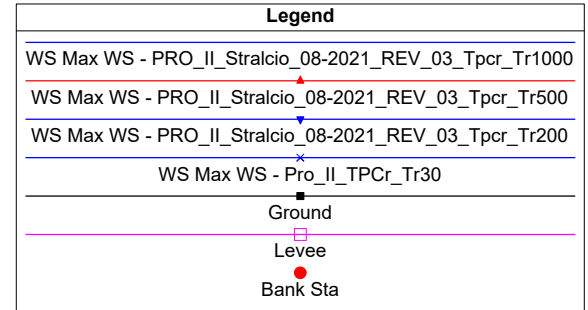
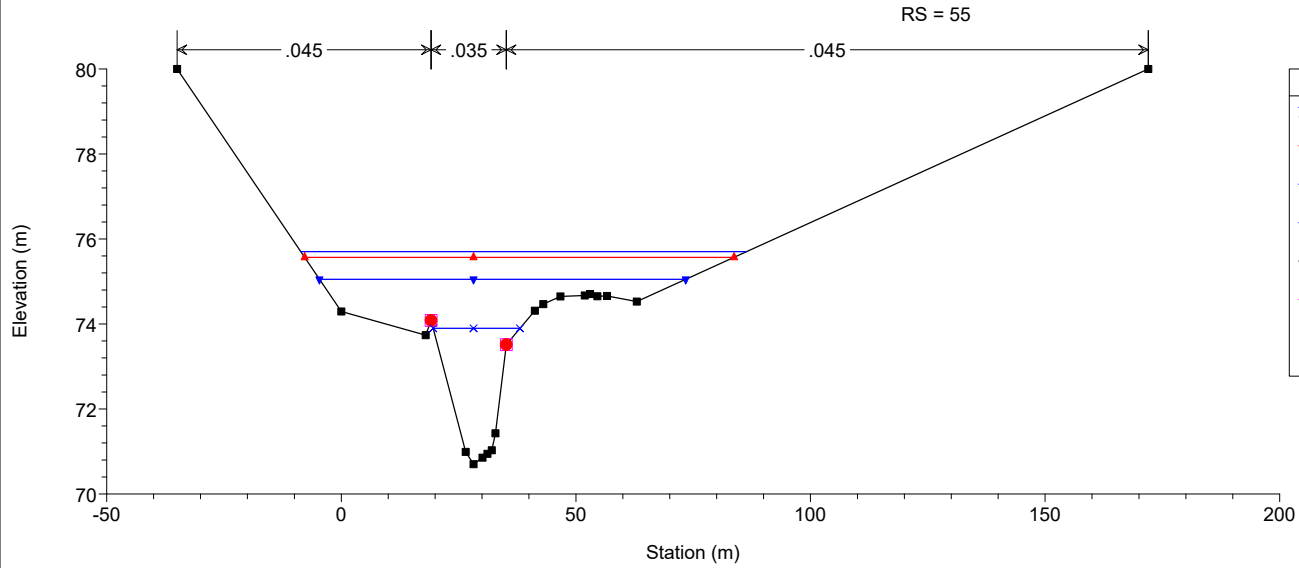
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Pietrosovalle	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.65	51.09	53.78		53.99	0.003573	2.03	30.80	22.53	0.56
Pietrosovalle	7	Max WS	Pro_II_Tp6h_tr30	46.64	51.09	53.54		53.71	0.003305	1.82	25.65	20.91	0.52
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	79.09	50.87	53.84	53.18	54.03	0.002739	1.93	41.00	26.81	0.50
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.62	50.87	53.79	53.14	53.97	0.002713	1.89	39.52	26.50	0.49
Pietrosovalle	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.64	50.87	53.63	53.02	53.79	0.002642	1.77	35.38	25.62	0.48
Pietrosovalle	6	Max WS	Pro_II_Tp6h_tr30	46.64	50.87	53.39	52.82	53.52	0.002501	1.58	29.49	24.30	0.46
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	78.87	50.30	53.45		53.83	0.006419	2.72	28.98	20.77	0.74
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.59	50.30	53.41		53.77	0.006310	2.66	28.07	20.59	0.73
Pietrosovalle	5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.63	50.30	53.28		53.59	0.005912	2.46	25.49	20.05	0.70
Pietrosovalle	5	Max WS	Pro_II_Tp6h_tr30	46.62	50.30	53.10		53.33	0.005132	2.13	21.93	19.28	0.64
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	78.88	50.27	53.62	52.31	53.71	0.000858	1.28	61.79	31.31	0.29
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	74.60	50.27	53.57	52.25	53.65	0.000832	1.24	60.18	31.15	0.28
Pietrosovalle	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	62.64	50.27	53.42	52.10	53.49	0.000747	1.13	55.57	30.67	0.27
Pietrosovalle	4	Max WS	Pro_II_Tp6h_tr30	46.62	50.27	53.21	51.78	53.25	0.000607	0.95	49.02	29.97	0.24

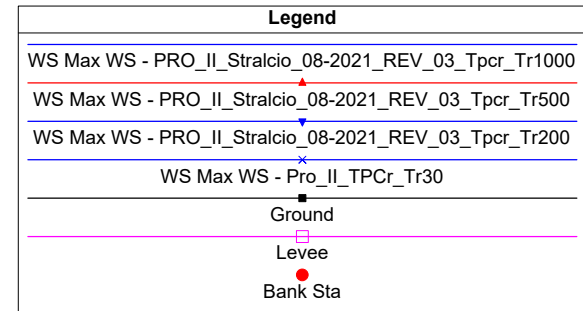
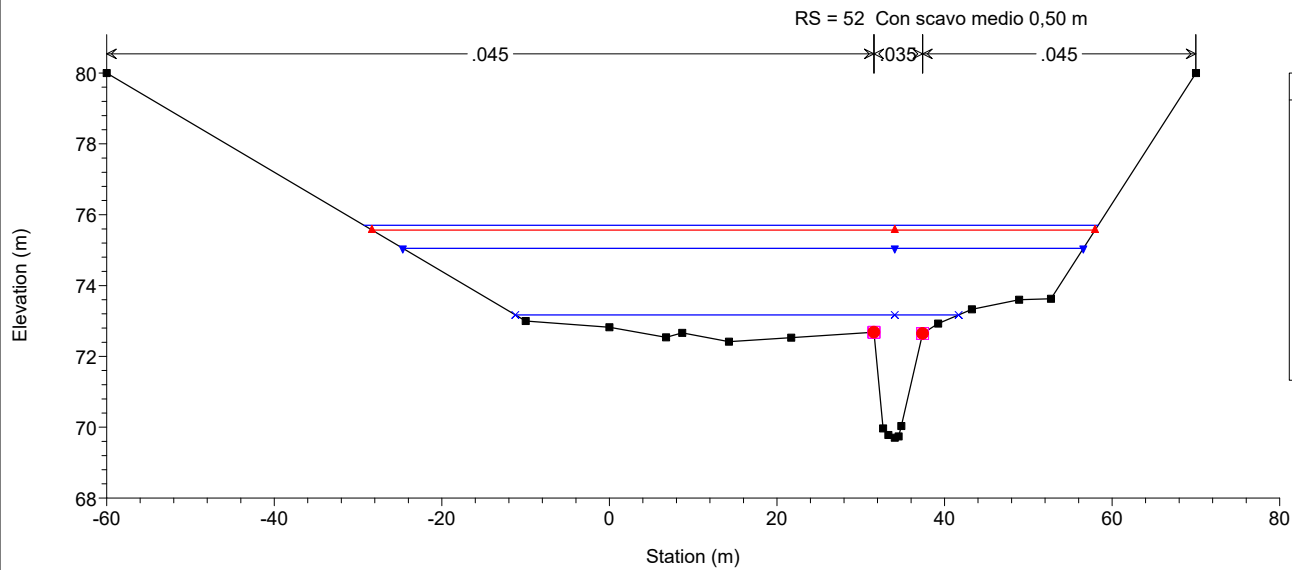
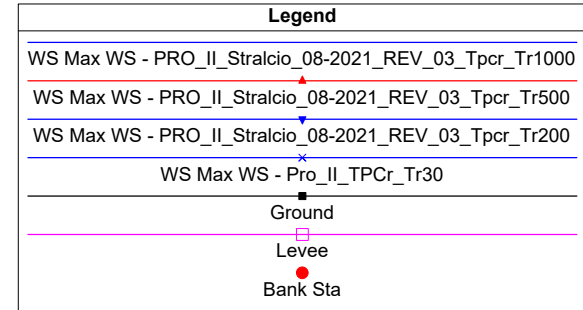
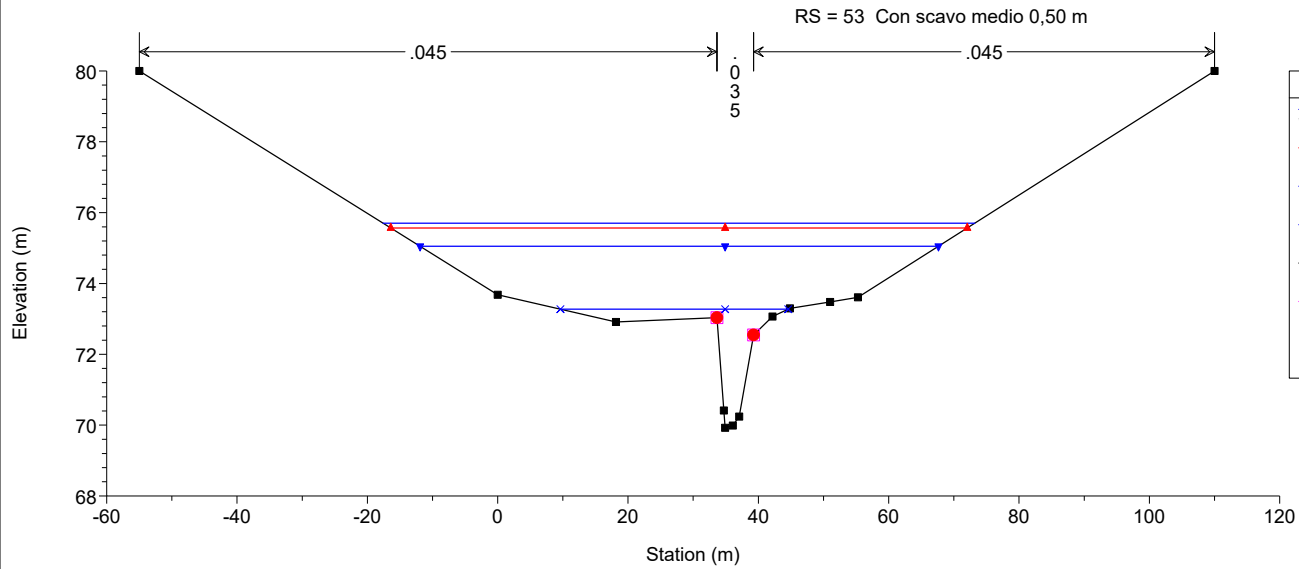
**Rio Arnese - Verifiche idrauliche moto vario stato di progetto**

**Tr=1000, 500, 200 e Tr=30 anni – Tp critico**

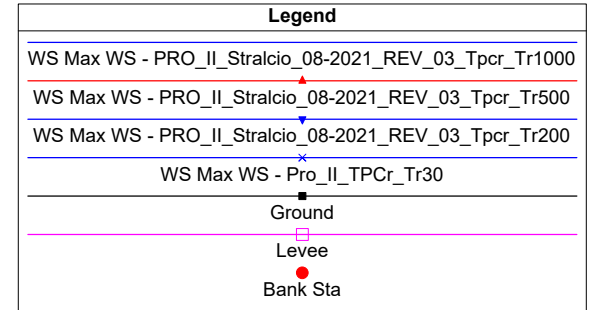
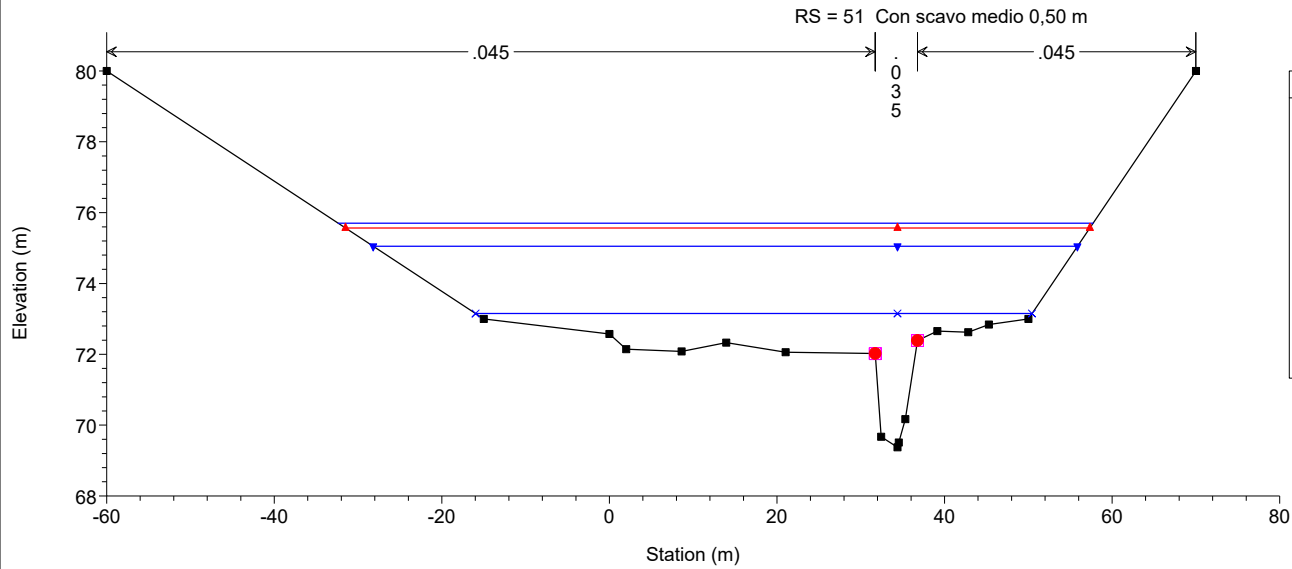


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■

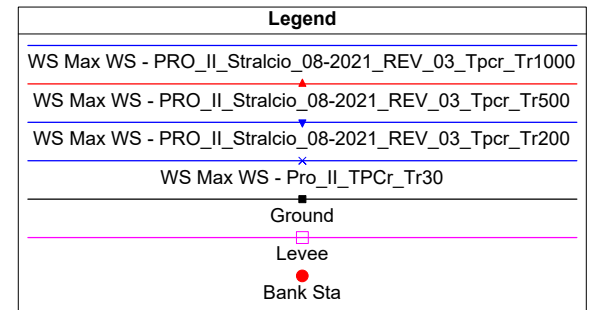
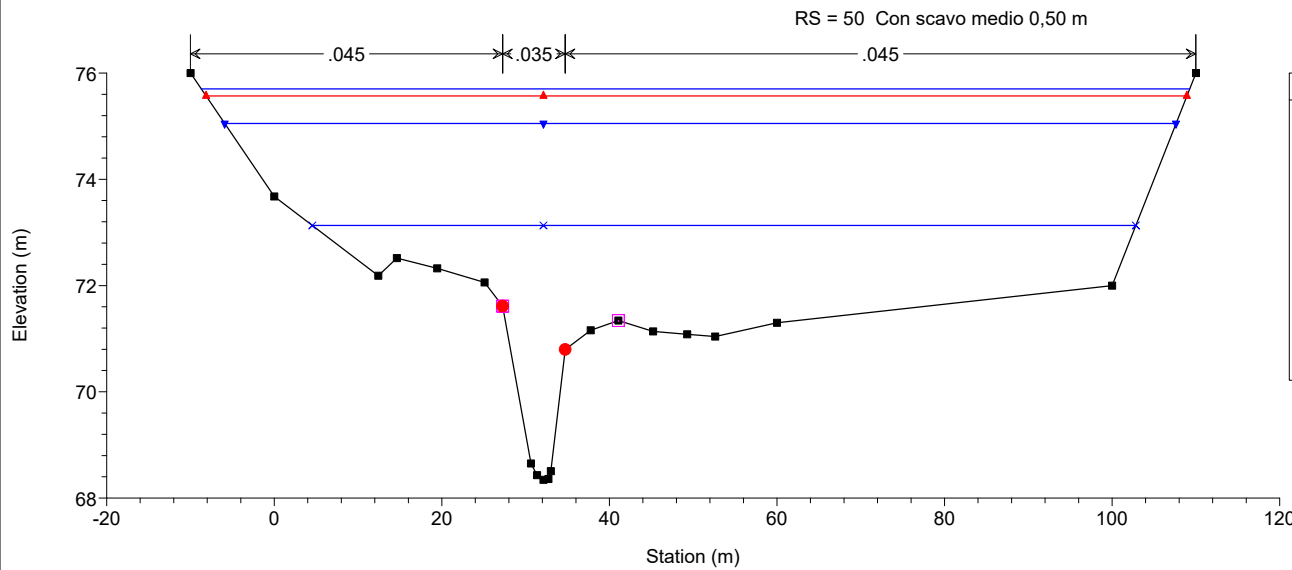




RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

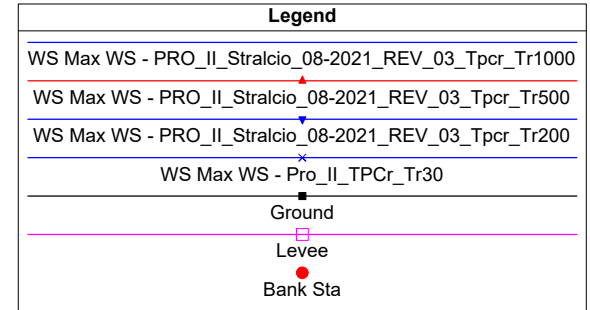
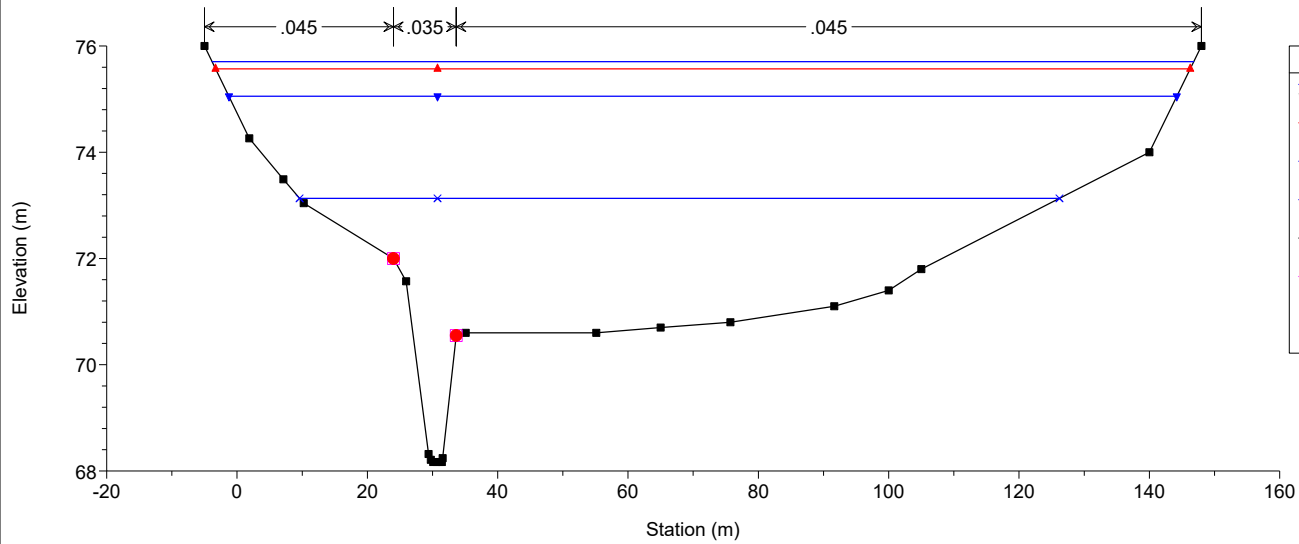


RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

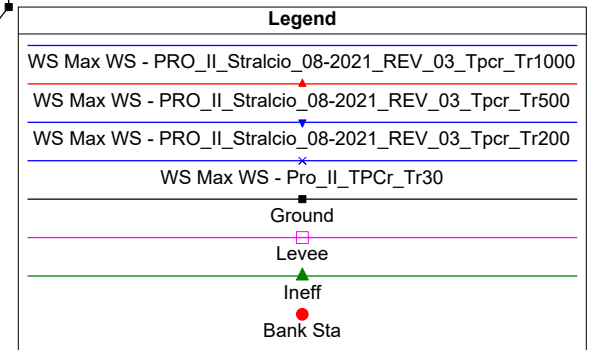
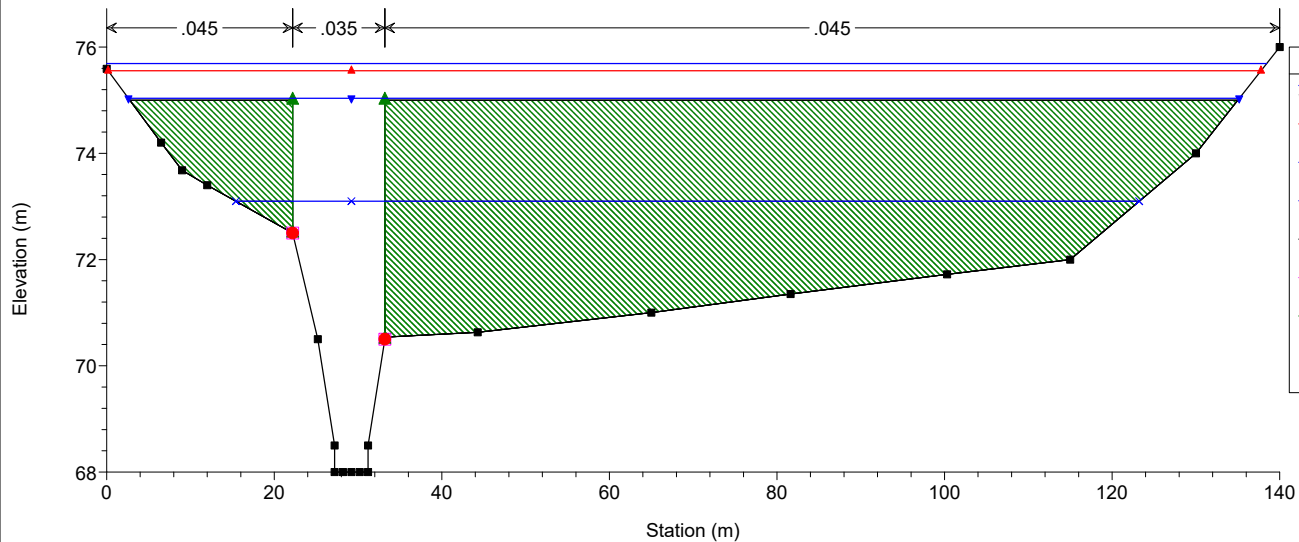




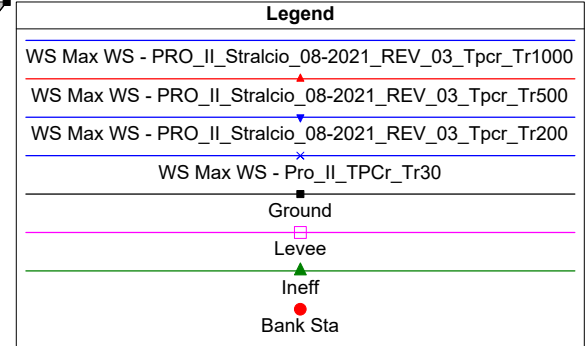
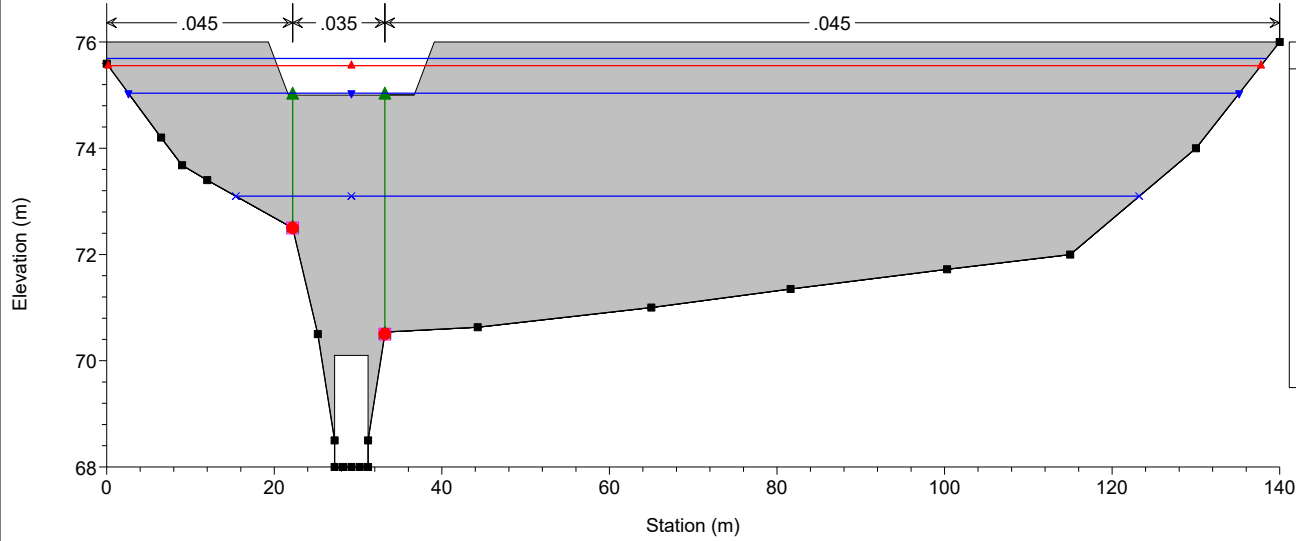
RS = 49.5 Ausiliaria cassa monte



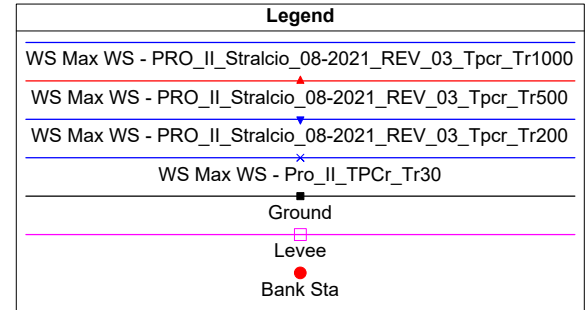
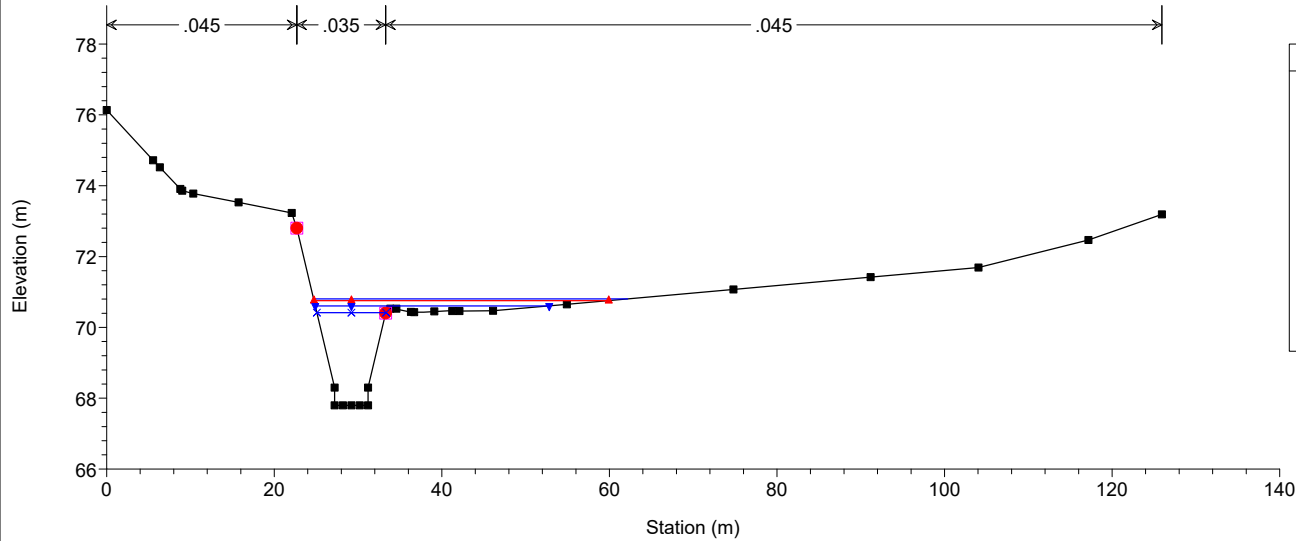
RS = 49.4 Ausiliaria monte Bocca Tarata cassa monte

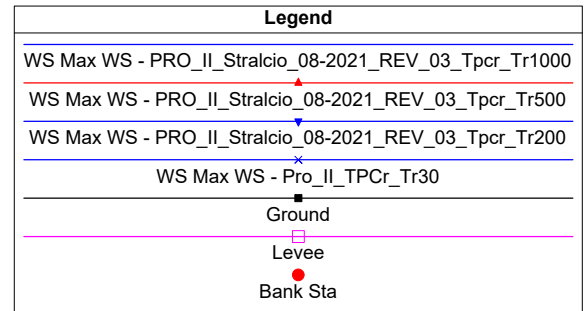
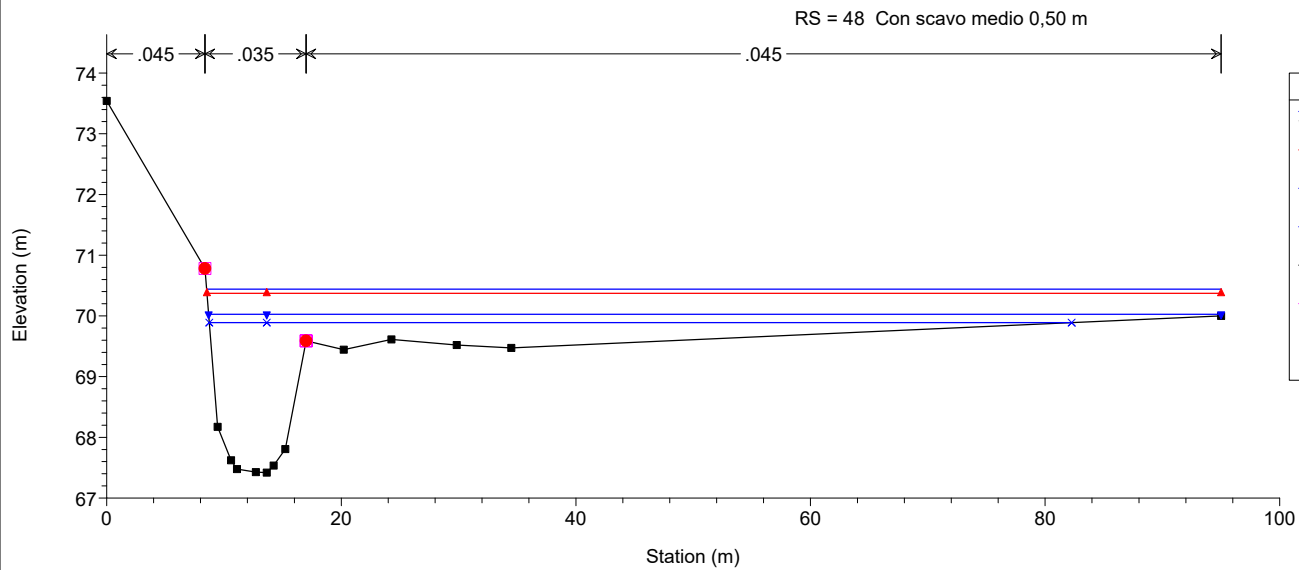
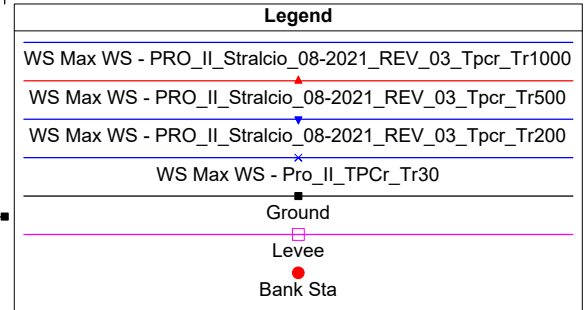
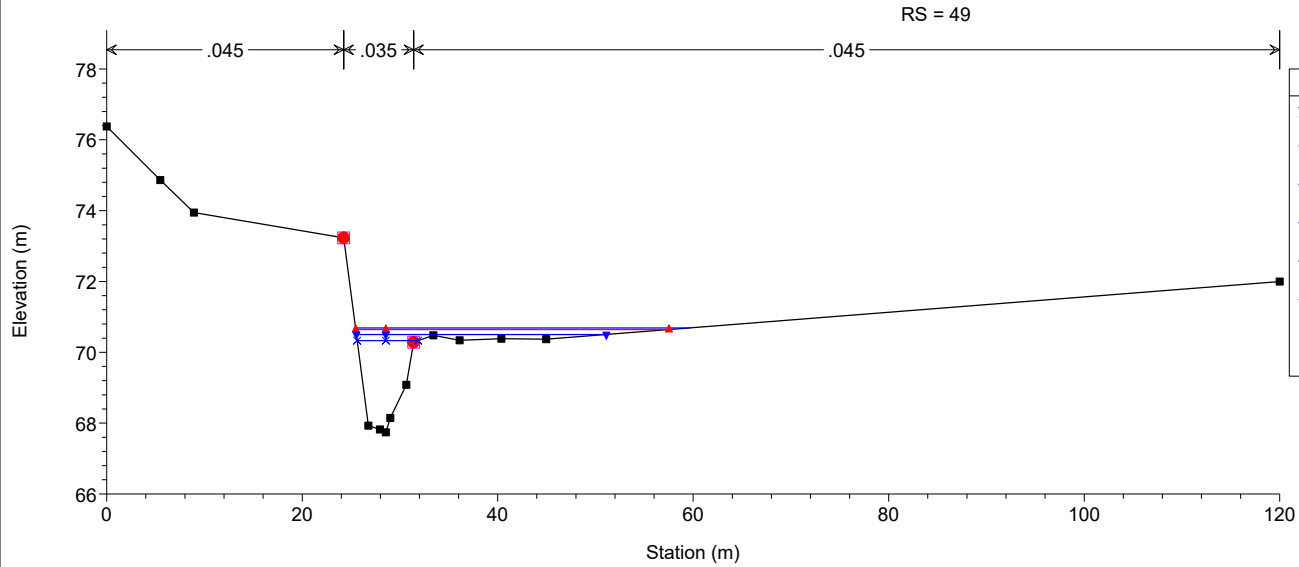


RS = 49.25 IS Bocca tarata monte rio Arnese

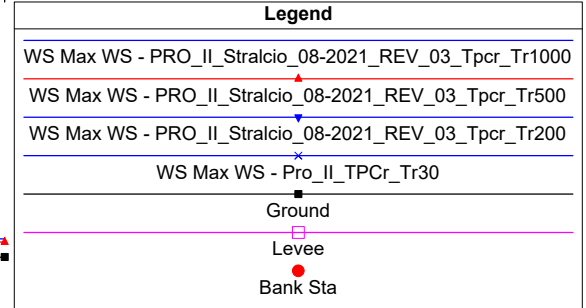
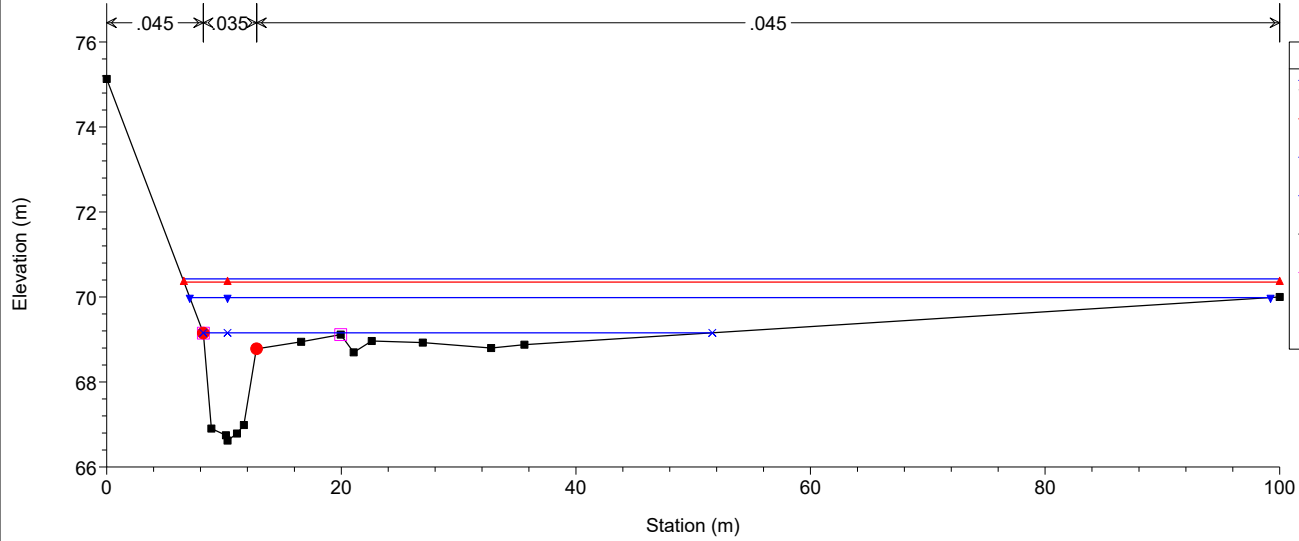


RS = 49.1 Ausiliaria valle Bocca Tarata cassa monte

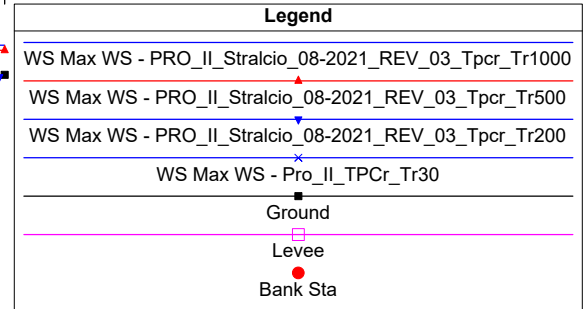
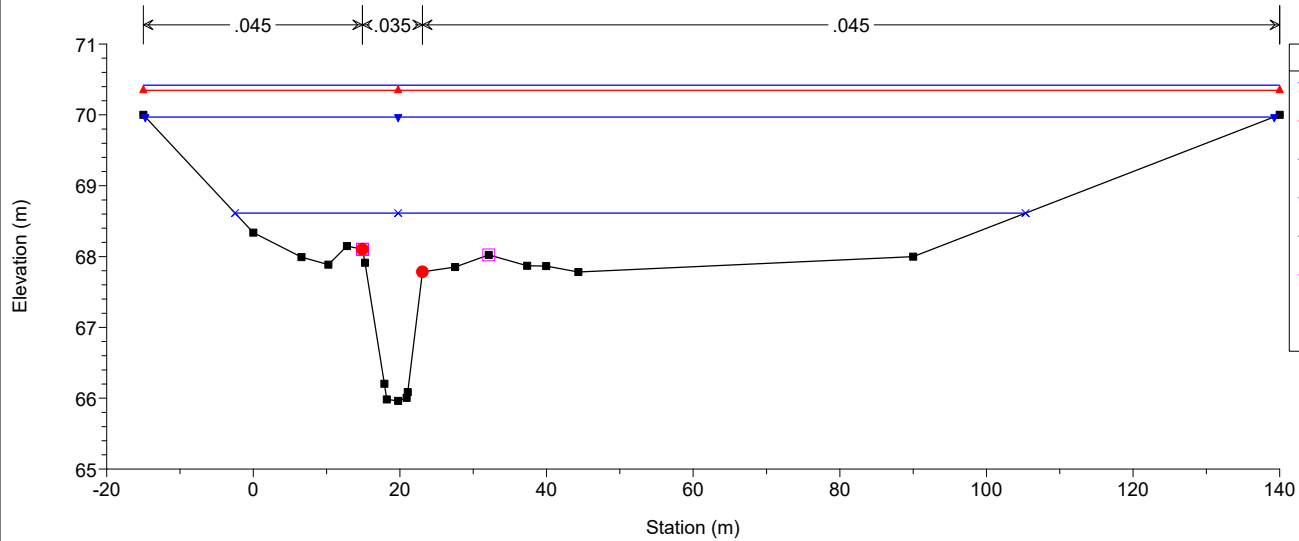




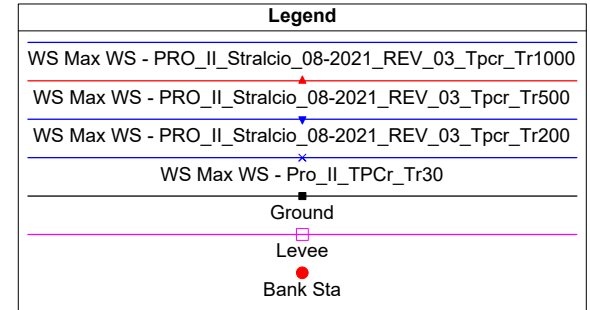
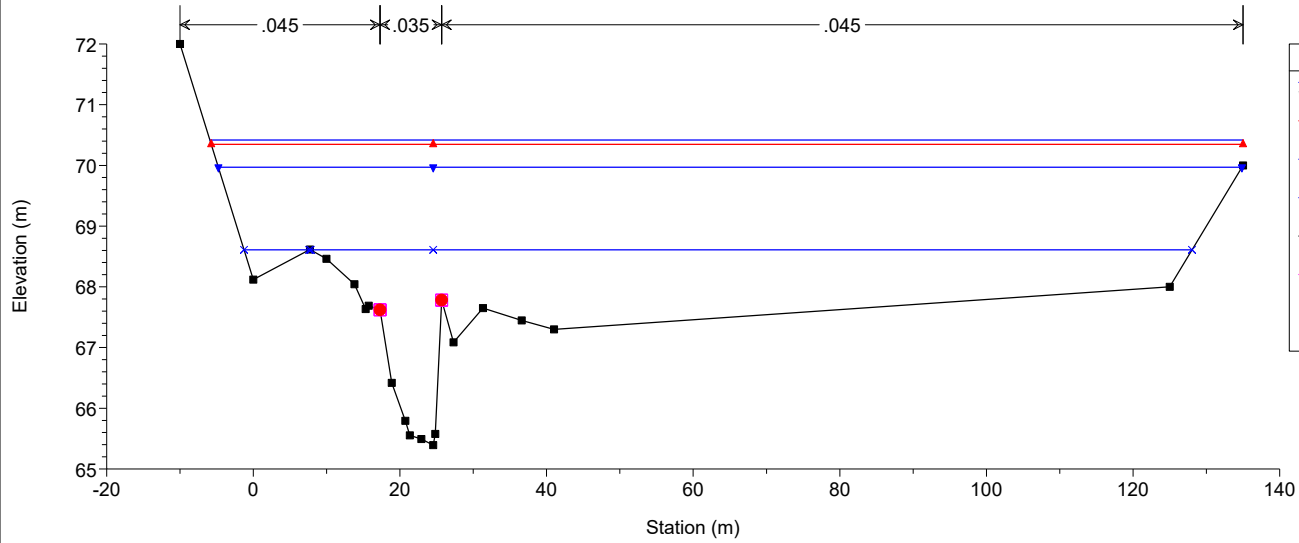
RS = 47 Con scavo medio 0,50 m



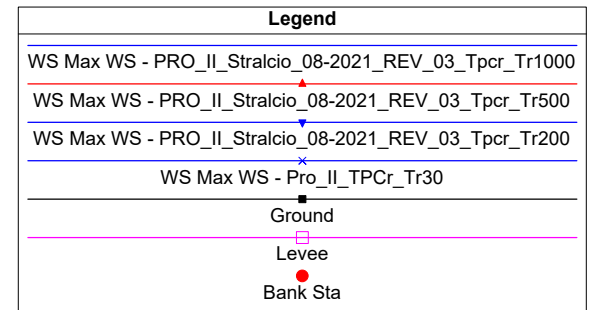
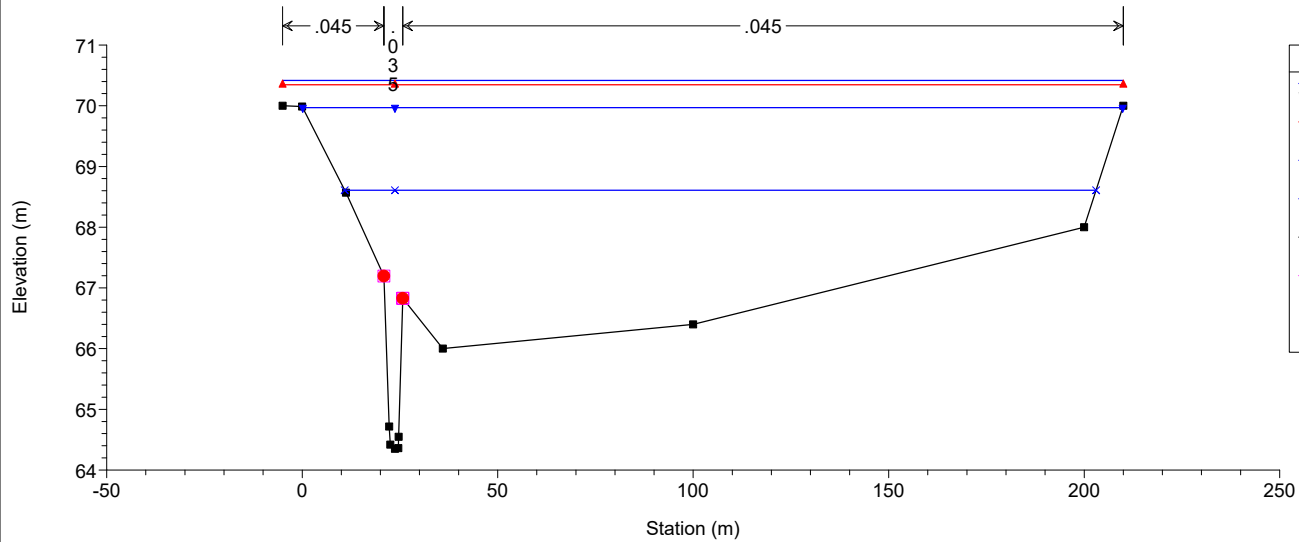
RS = 46 Con scavo medio 0,50 m



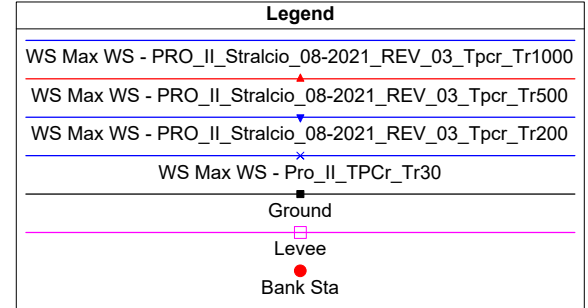
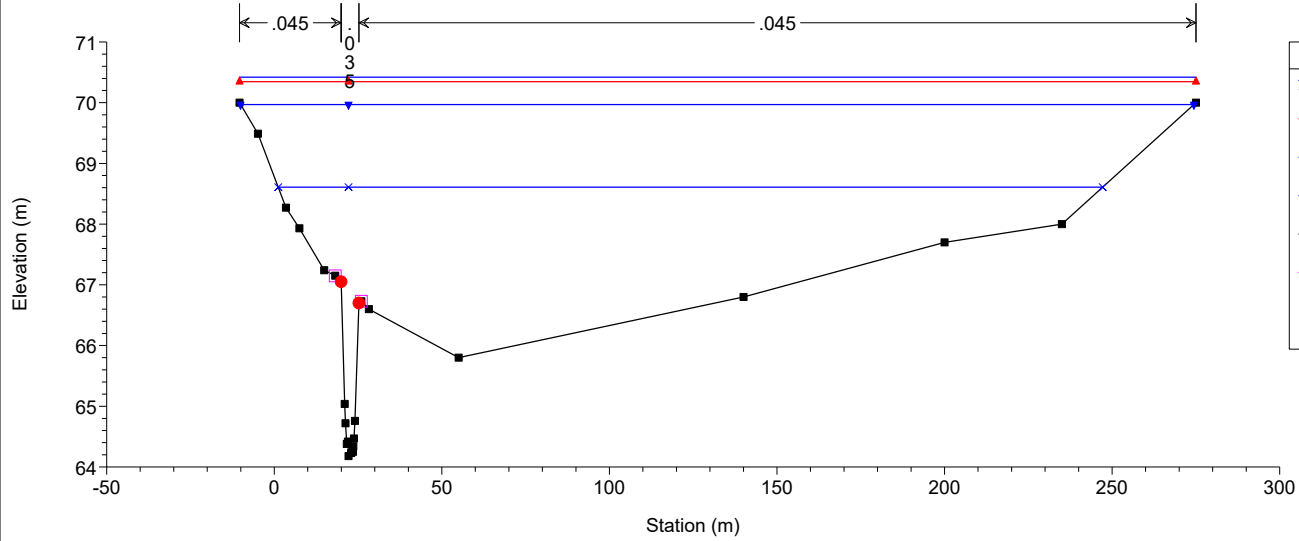
RS = 45 Con scavo medio 0,50 m



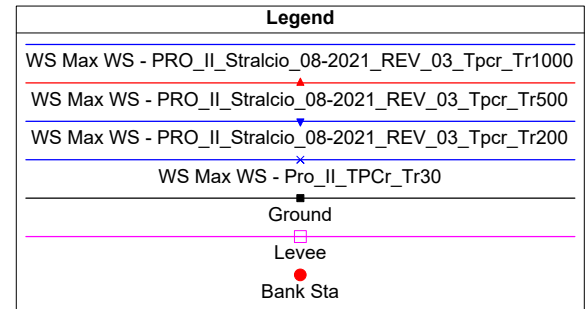
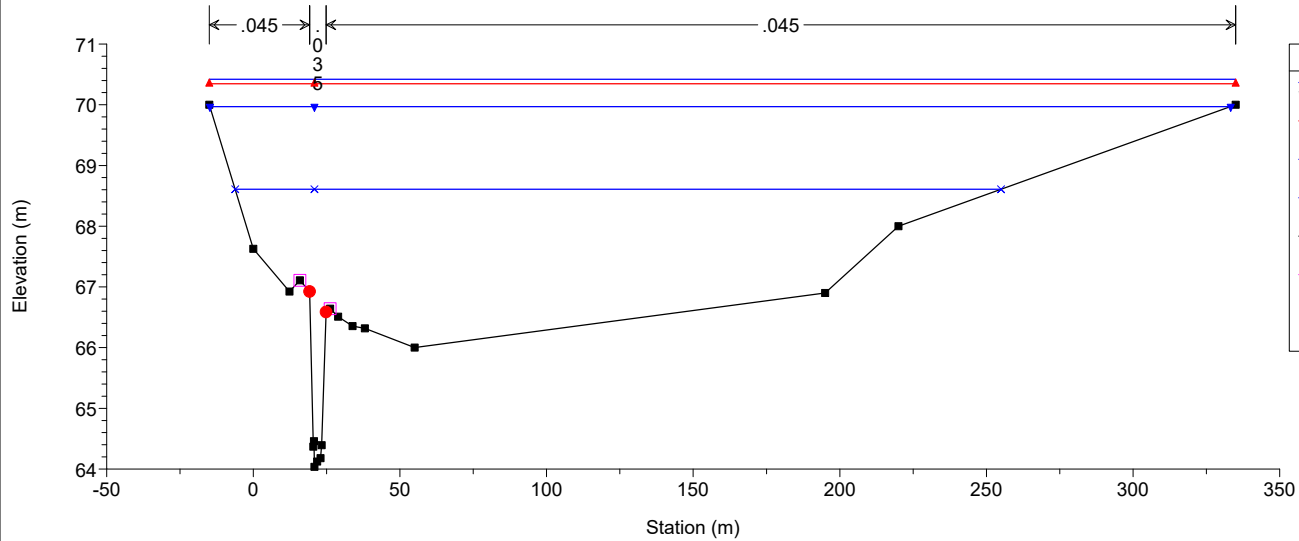
RS = 44 Con scavo medio 0,50 m



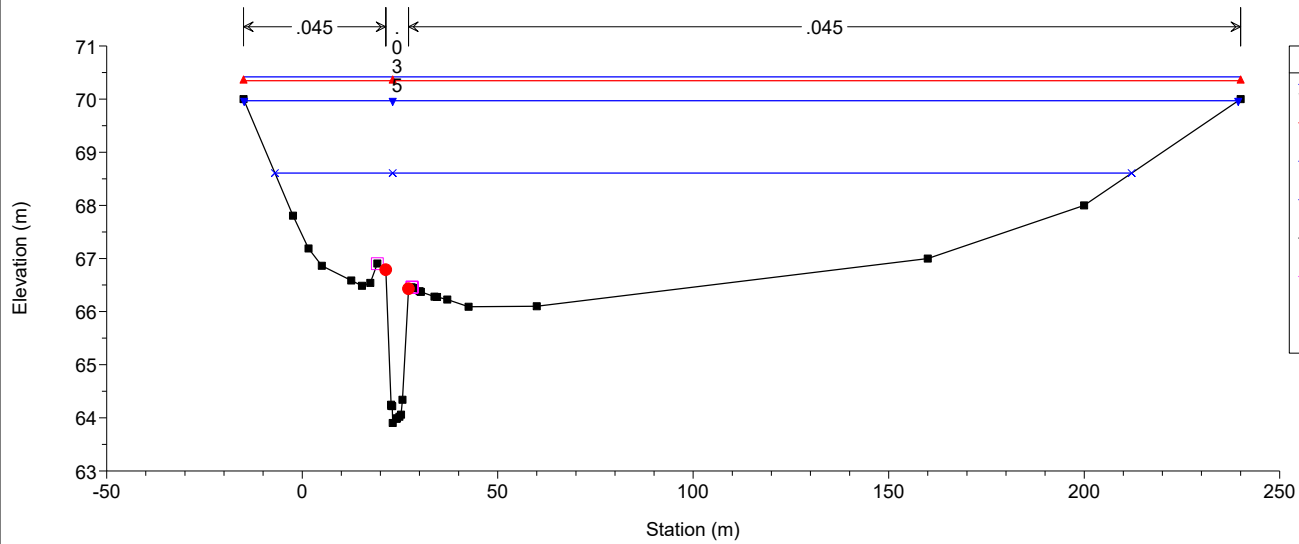
RS = 43.5 Ausiliaria cassa



RS = 43 Con scavo medio 0,50 m

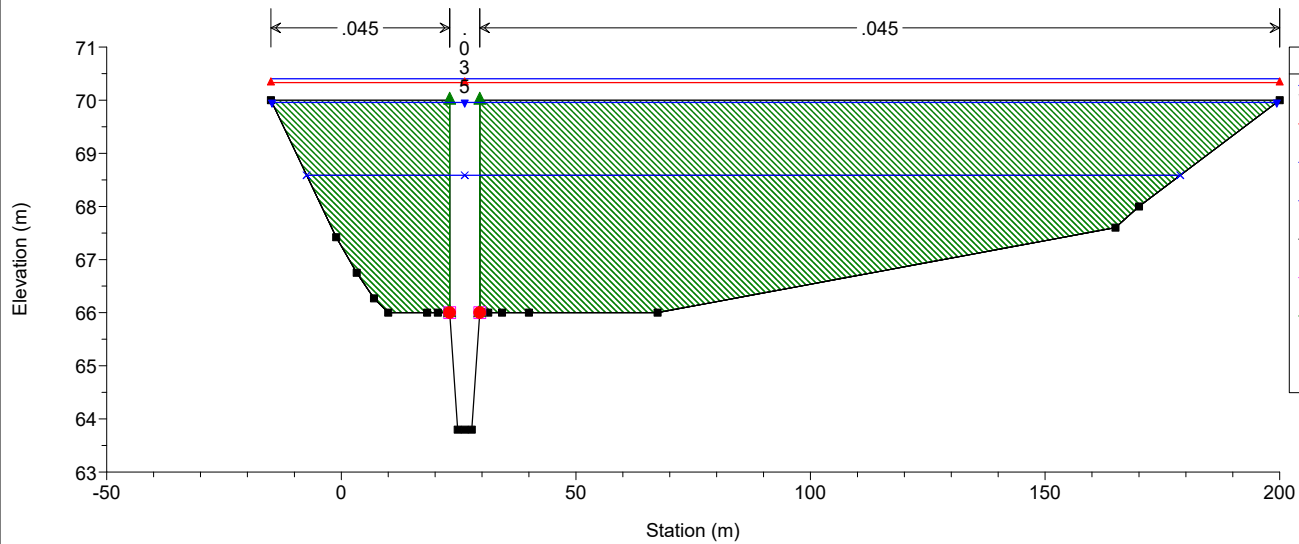


RS = 42.7 Ausiliaria cassa



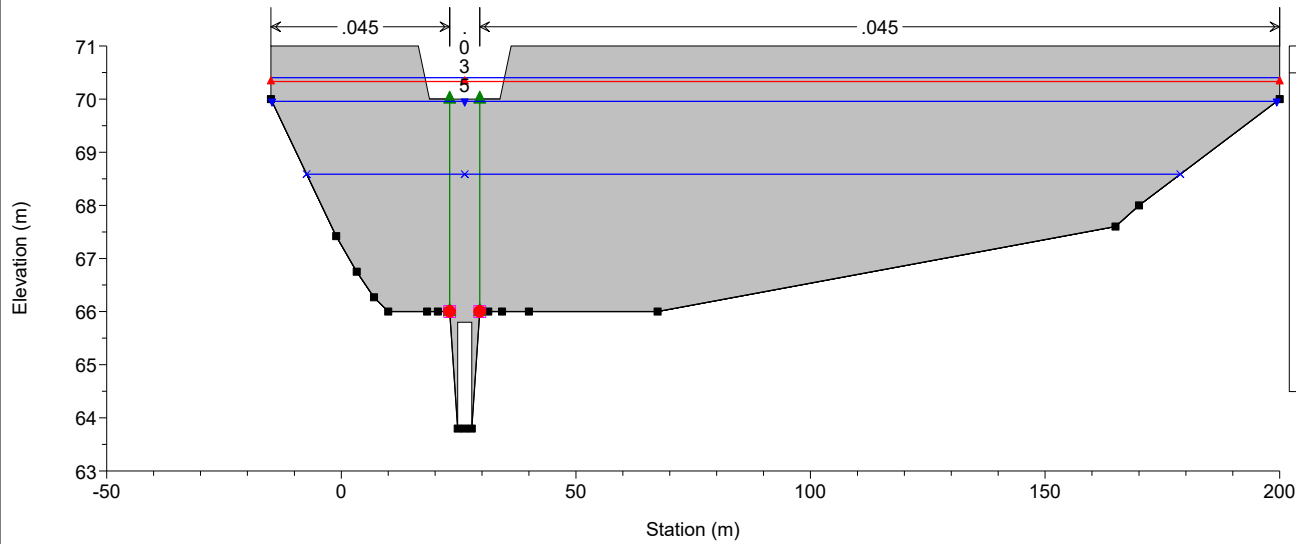
Legend	
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

RS = 42.4 Ausiliaria monte Bocca Tarata cassa valle



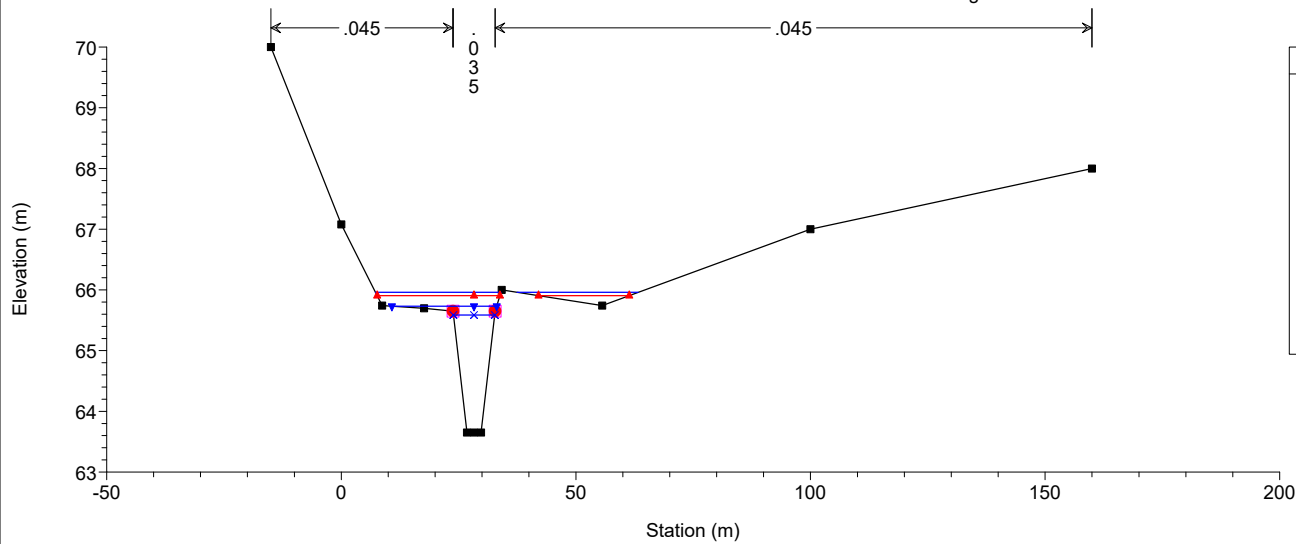
Legend	
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalцио_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Ineff	▲
Bank Sta	●

RS = 42.3 IS Bocca tarata valle rio Arnese



Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Ineff	▲
Bank Sta	●

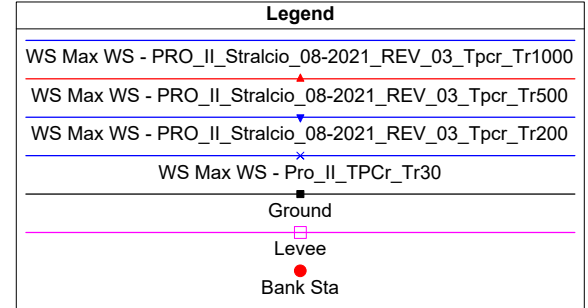
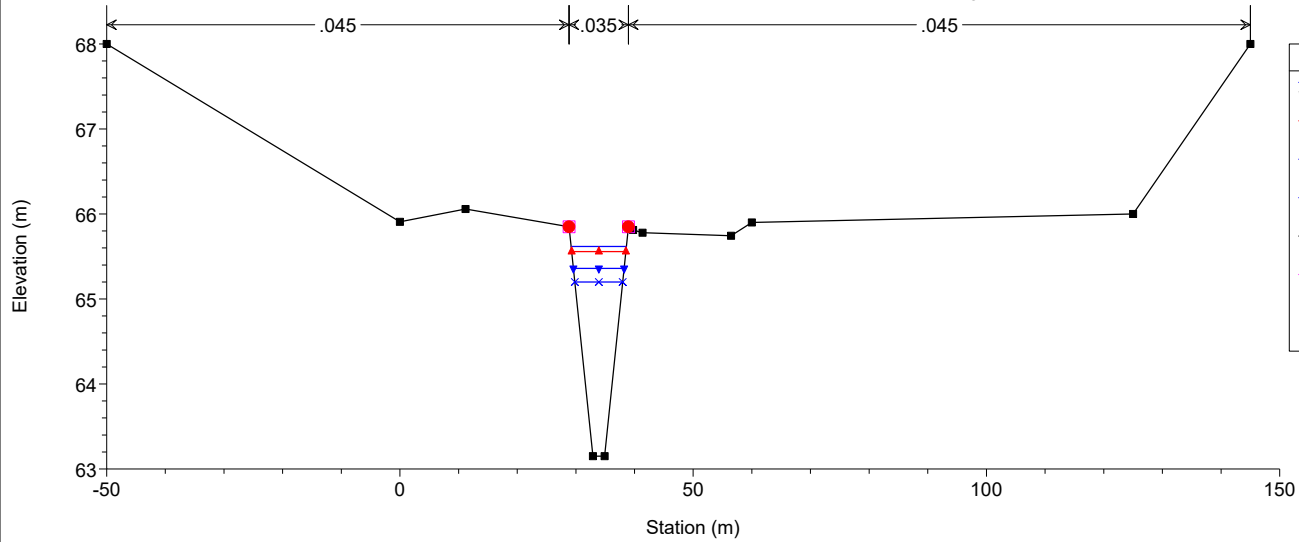
RS = 42 Risagomata



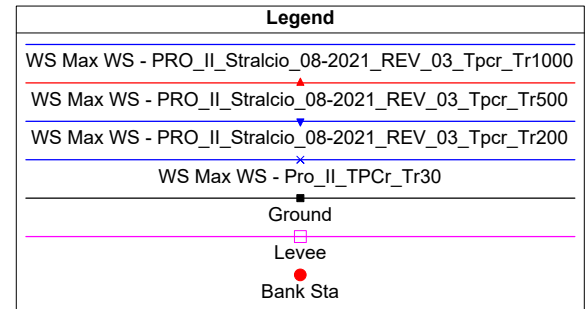
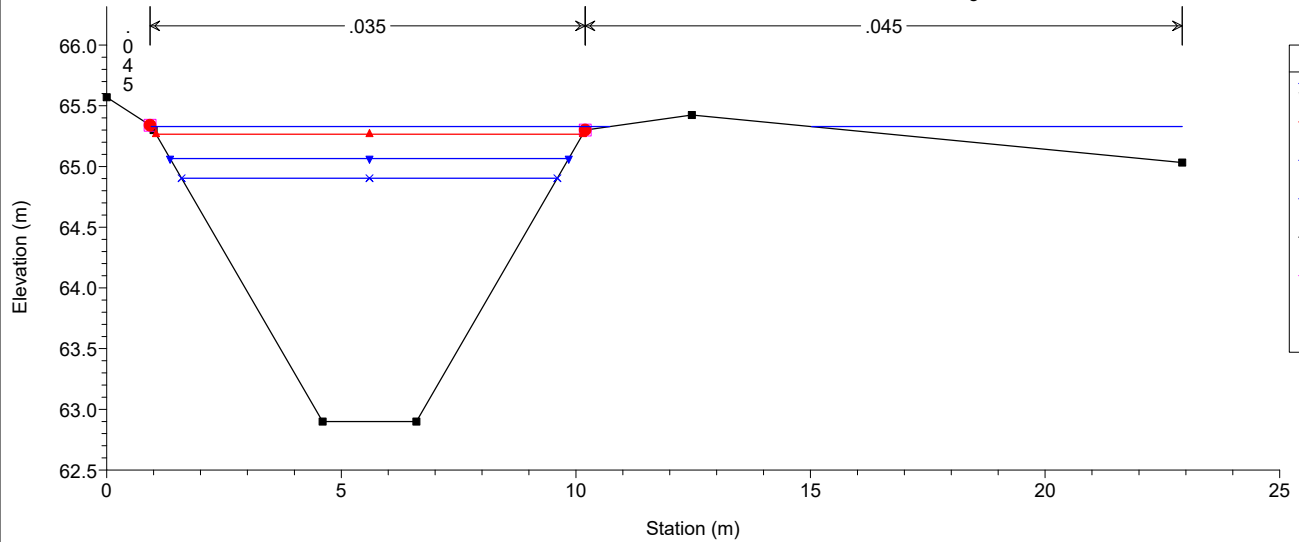
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

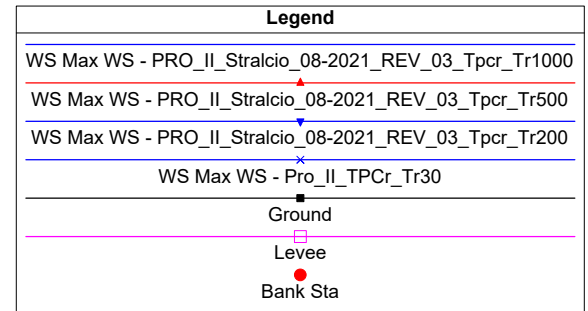
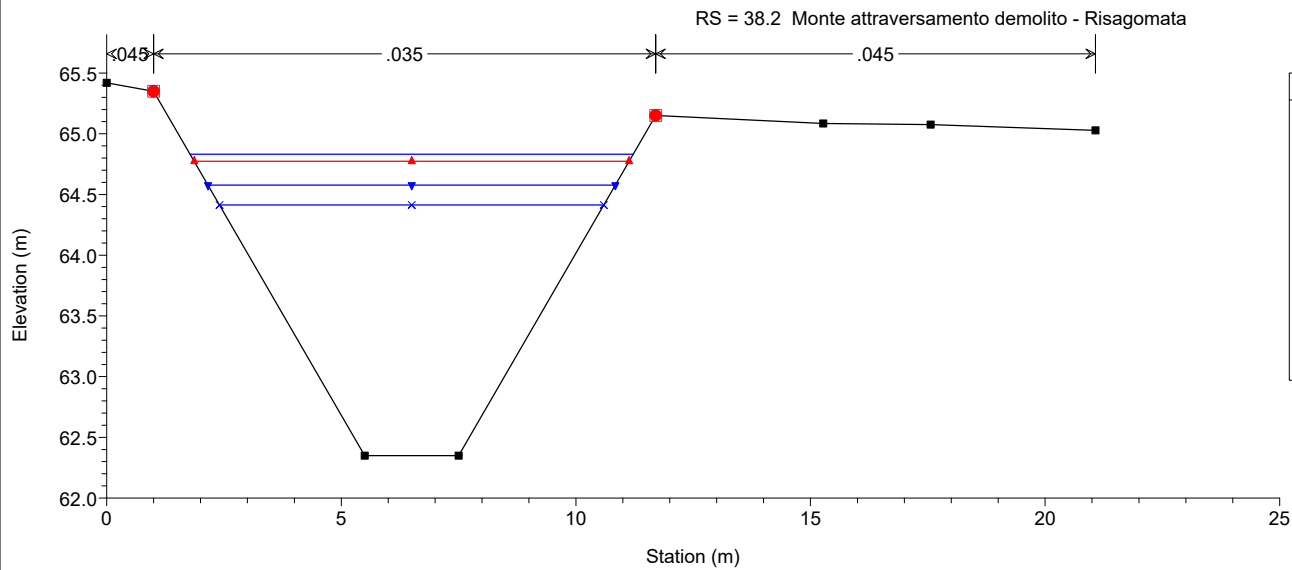
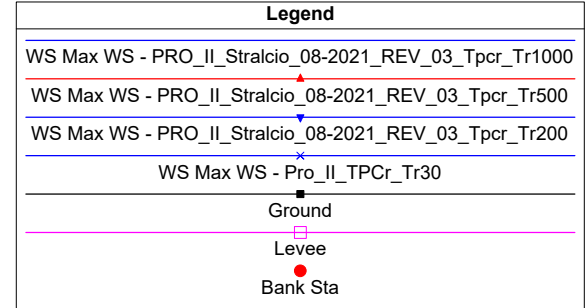
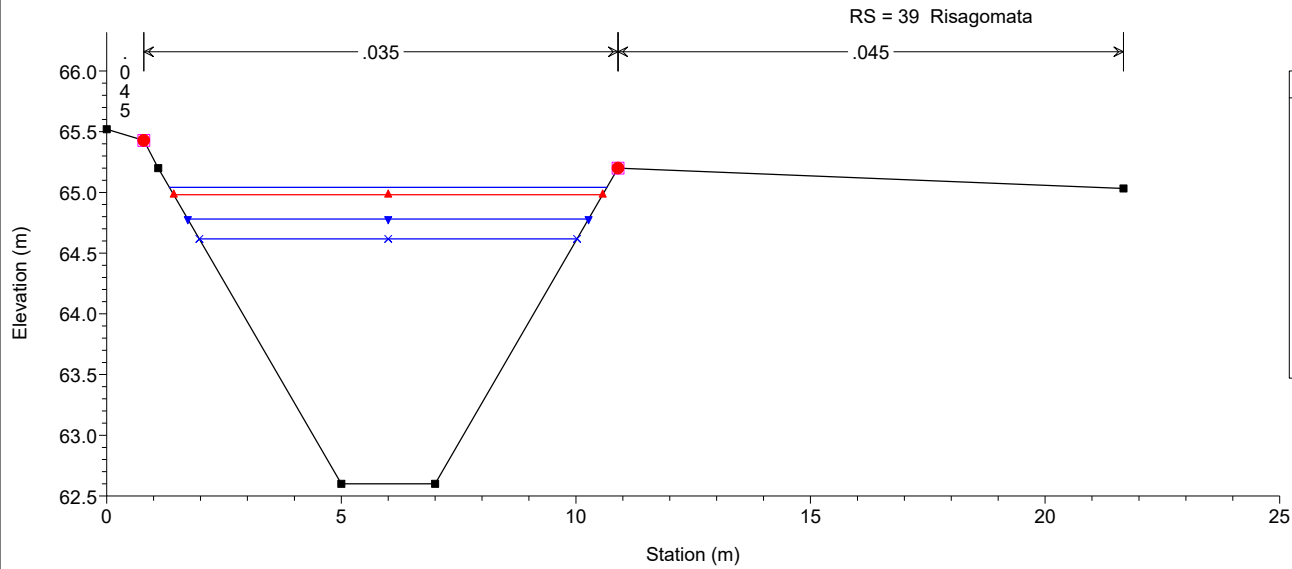


RS = 41 Risagomata

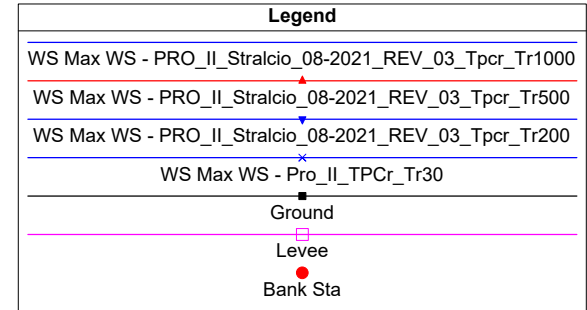
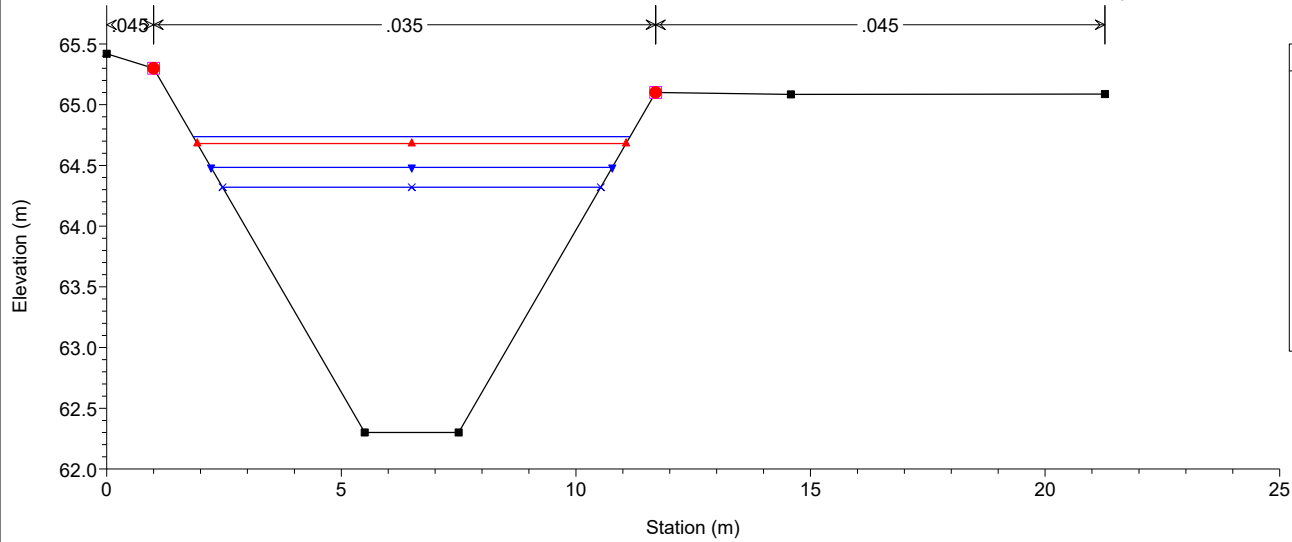


RS = 40 Risagomata

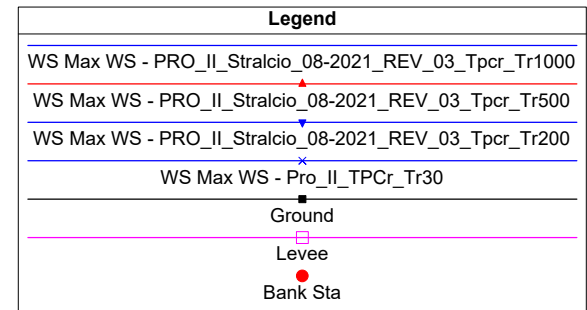
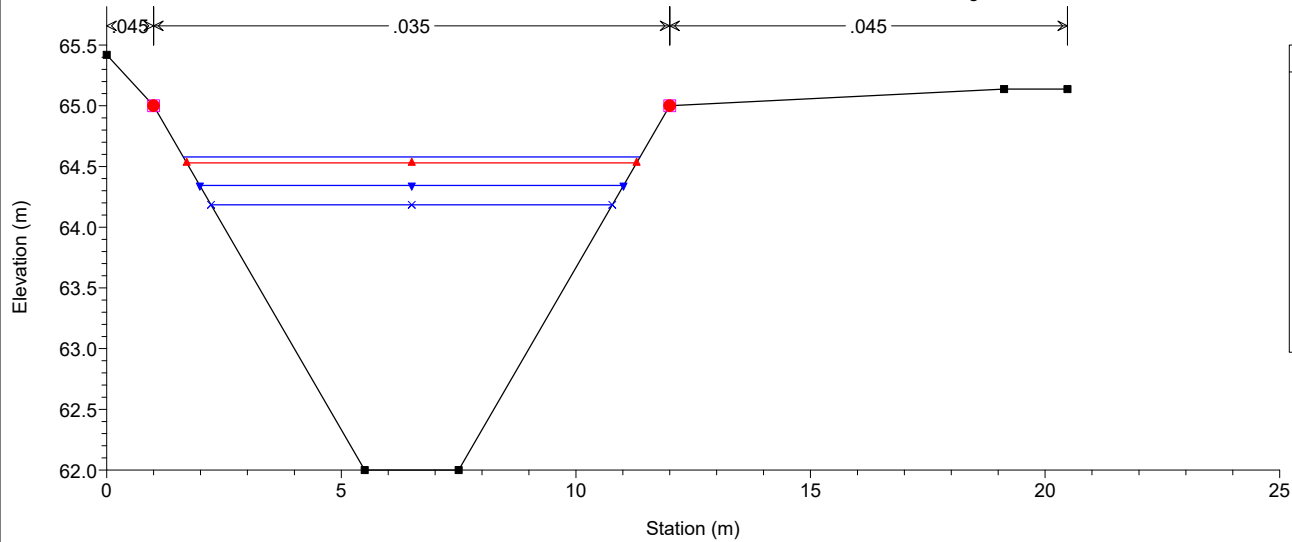




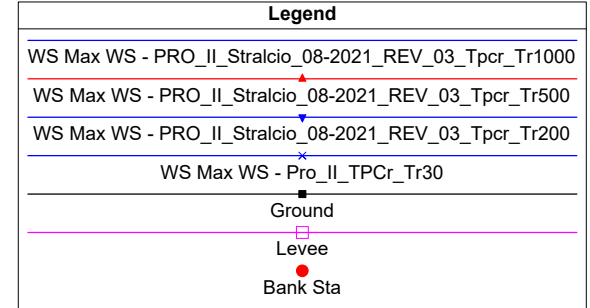
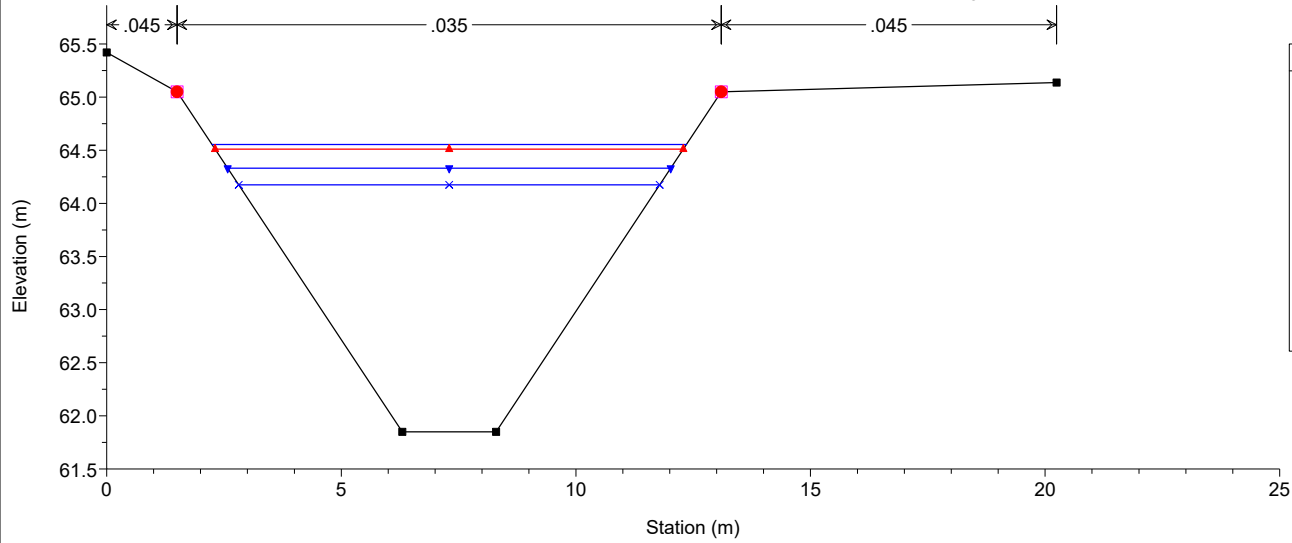
RS = 38.1 Valle attraversamento demolito - Risagomata



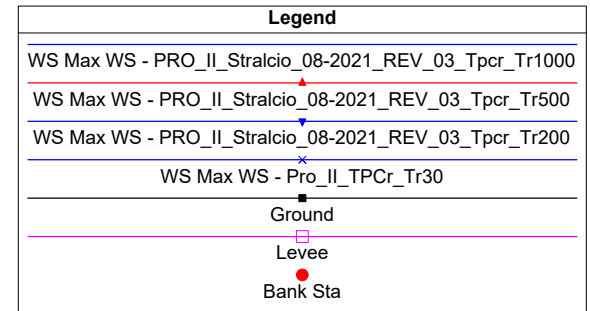
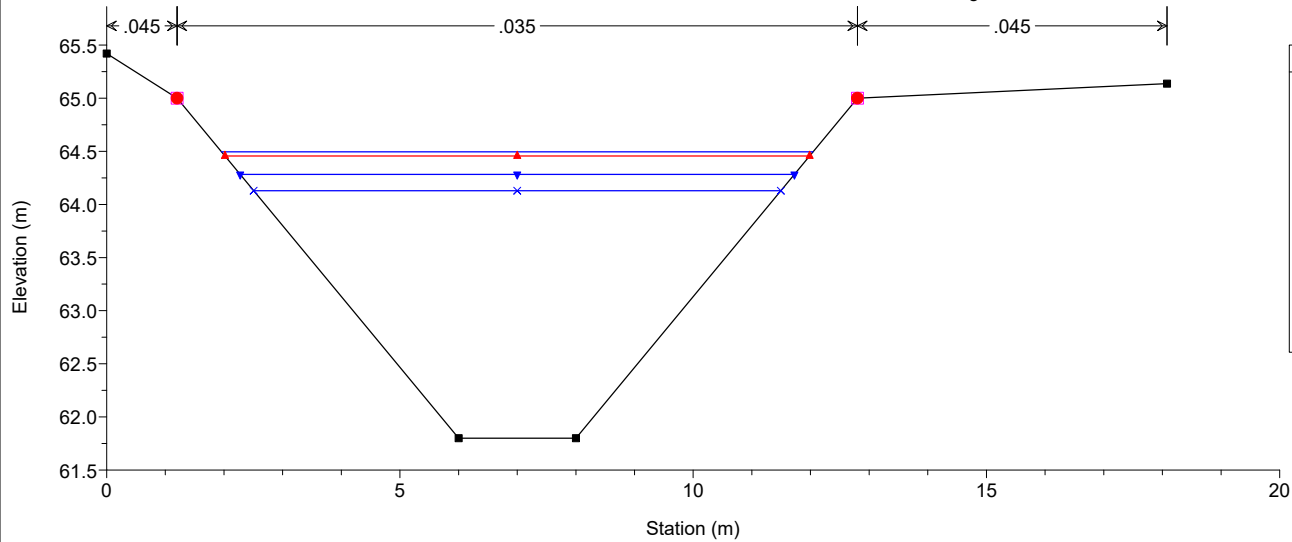
RS = 37 Risagomata



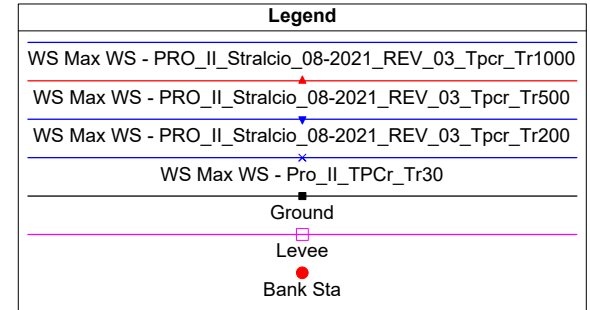
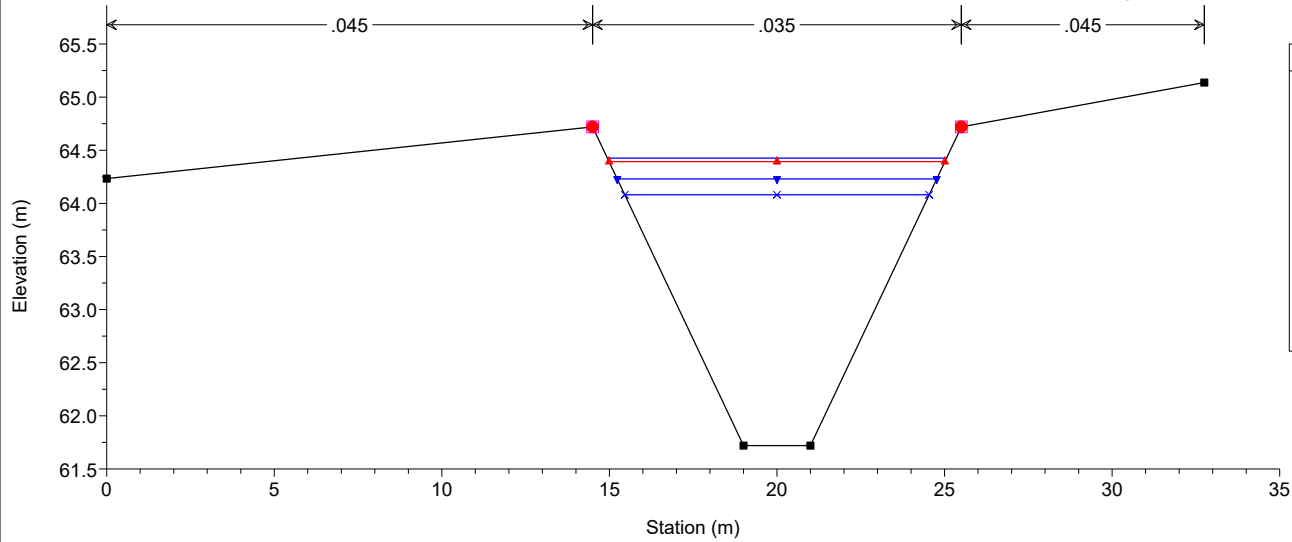
RS = 36 Risagomata



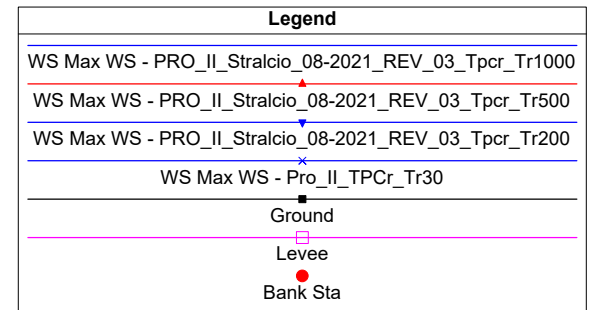
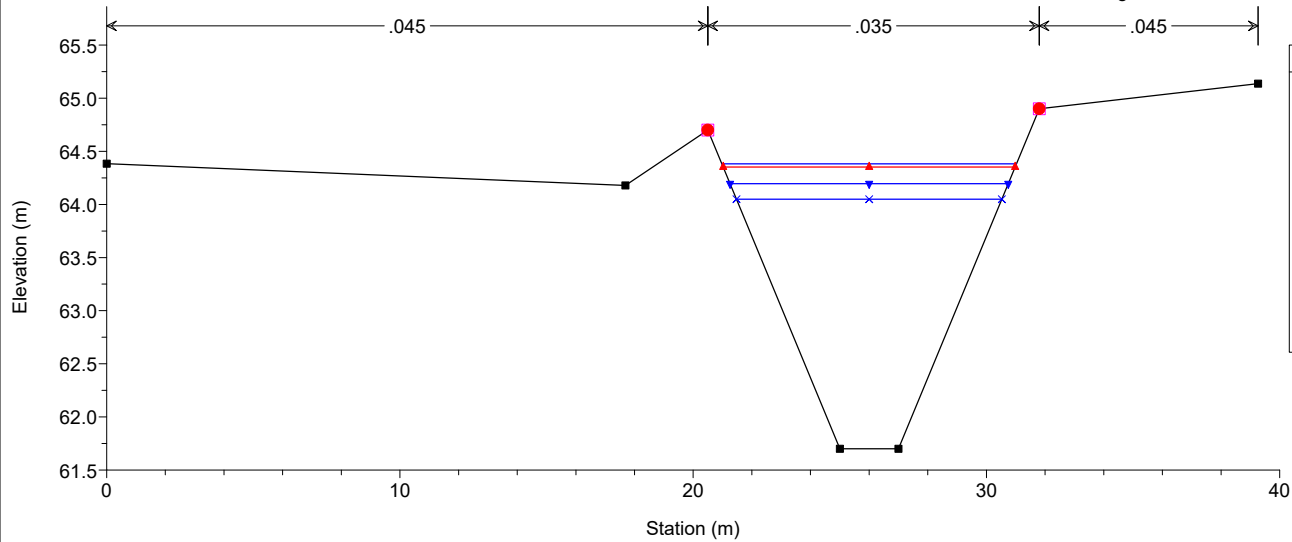
RS = 35 Risagomata

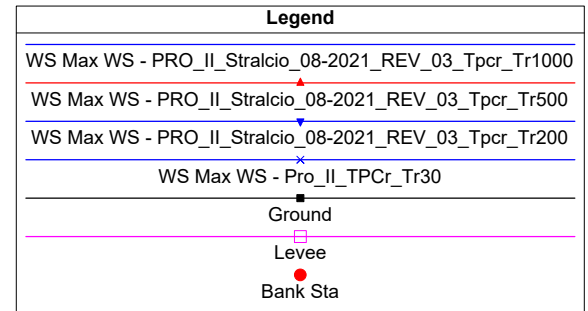
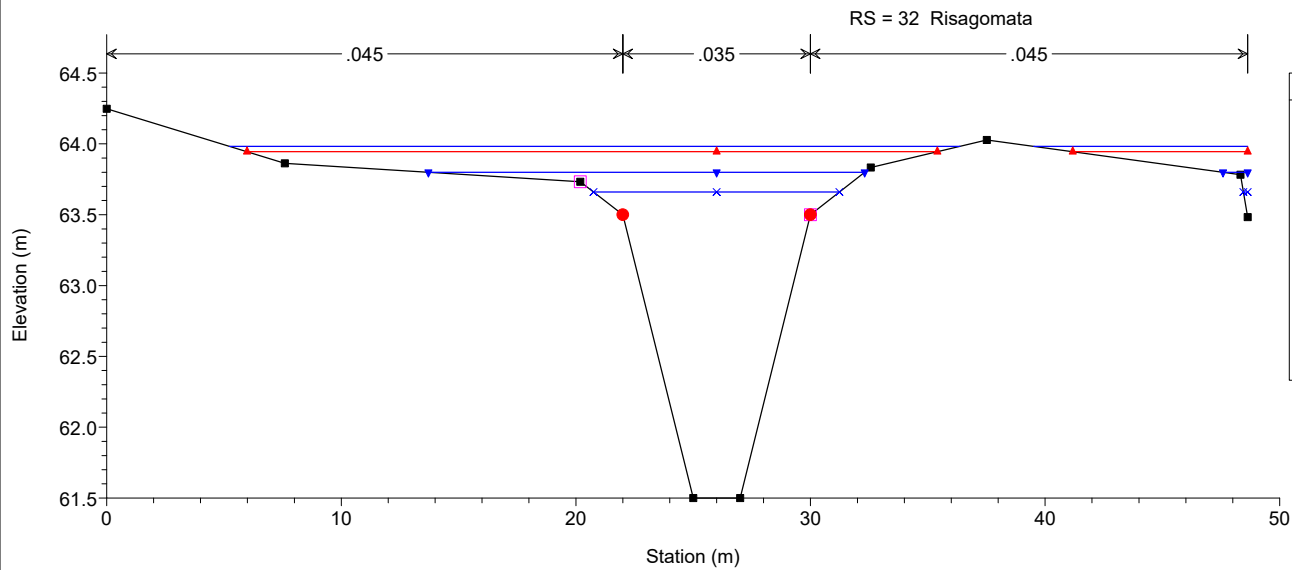
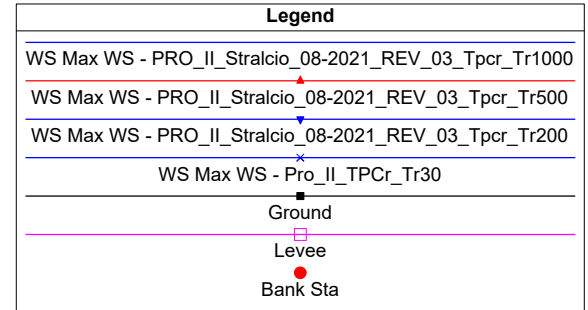
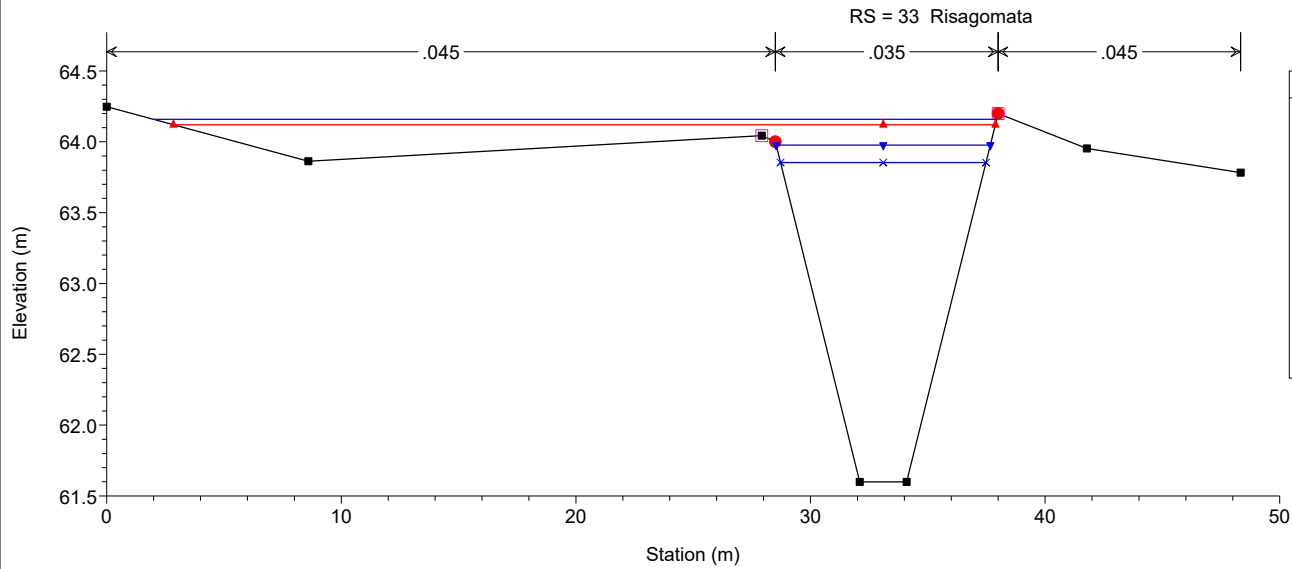


RS = 34.2 Monte attraversamento demolito - Risagomata

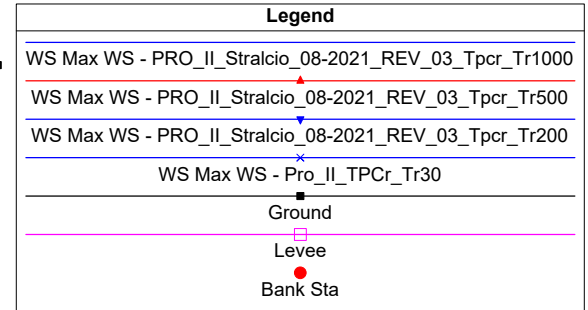
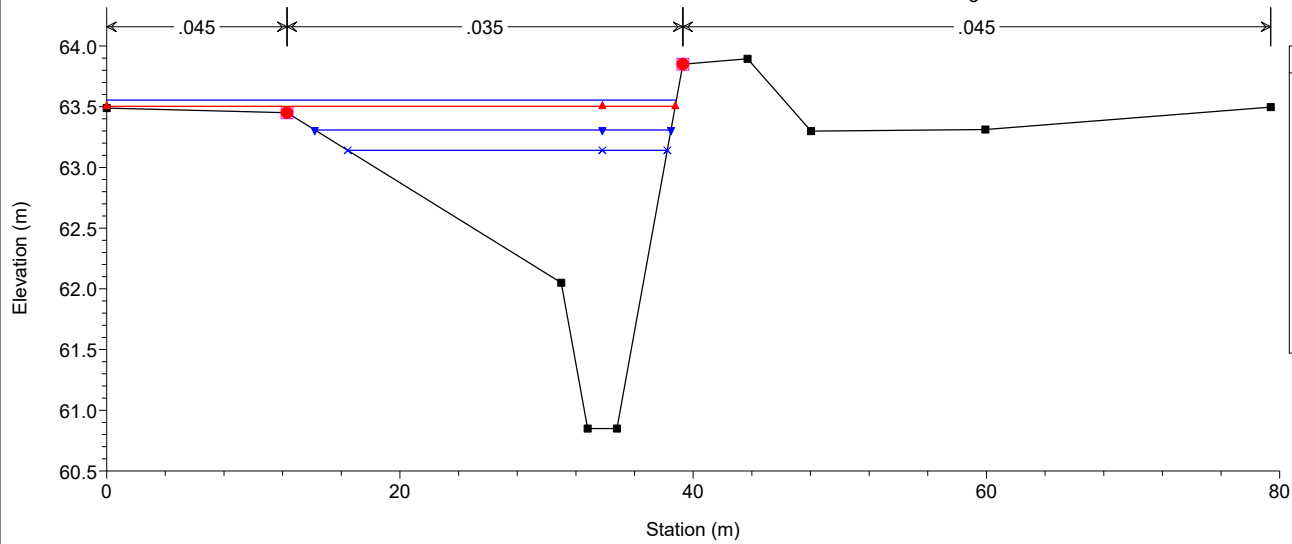


RS = 34.1 Valle attraversamento demolito - Risagomata

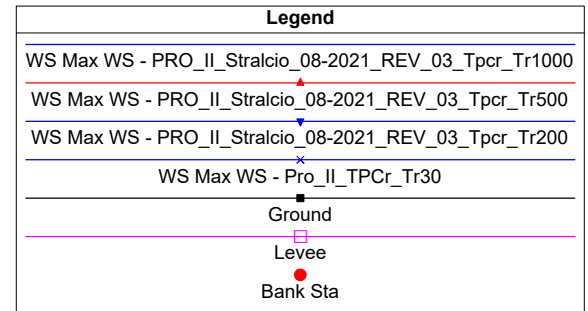
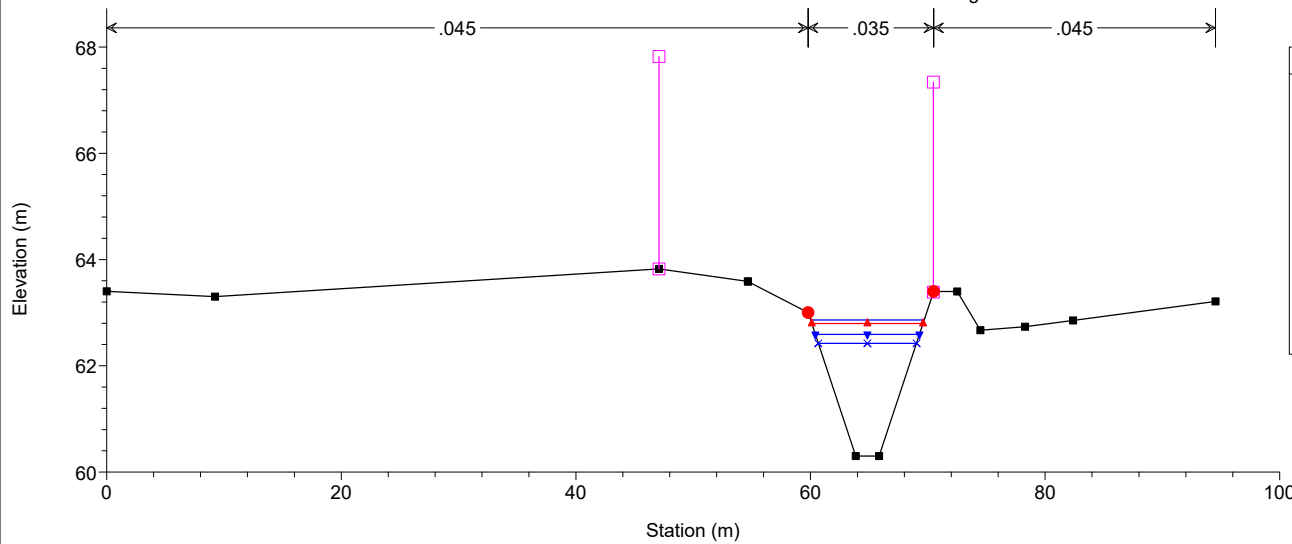




RS = 31 Risagomata

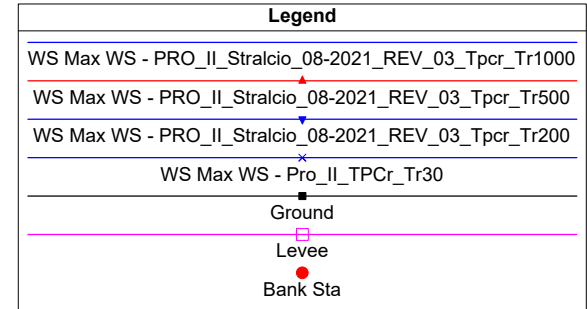
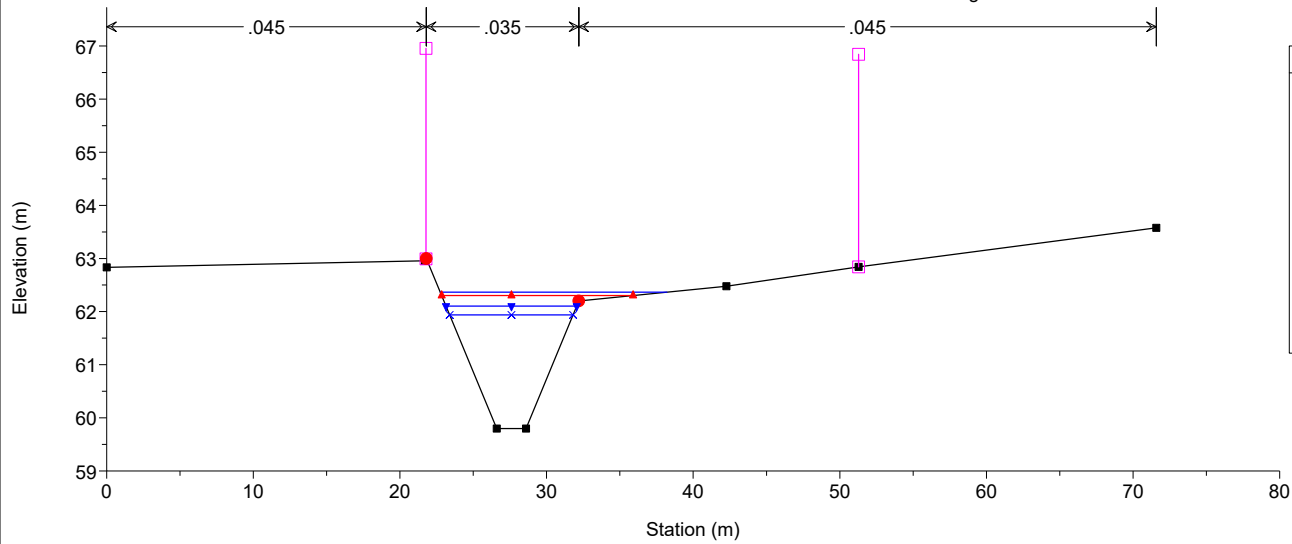


RS = 30 Risagomata



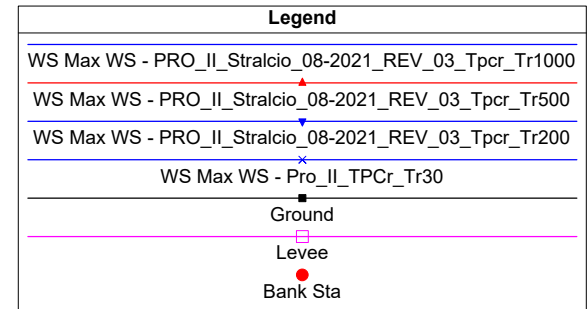
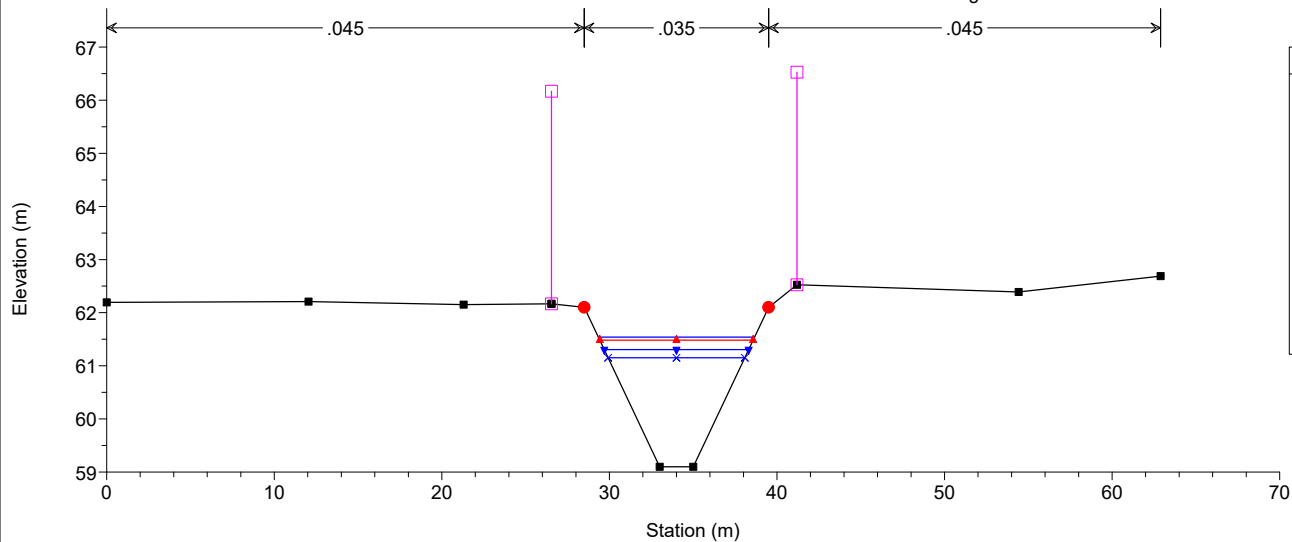
RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

RS = 29 Risagomata



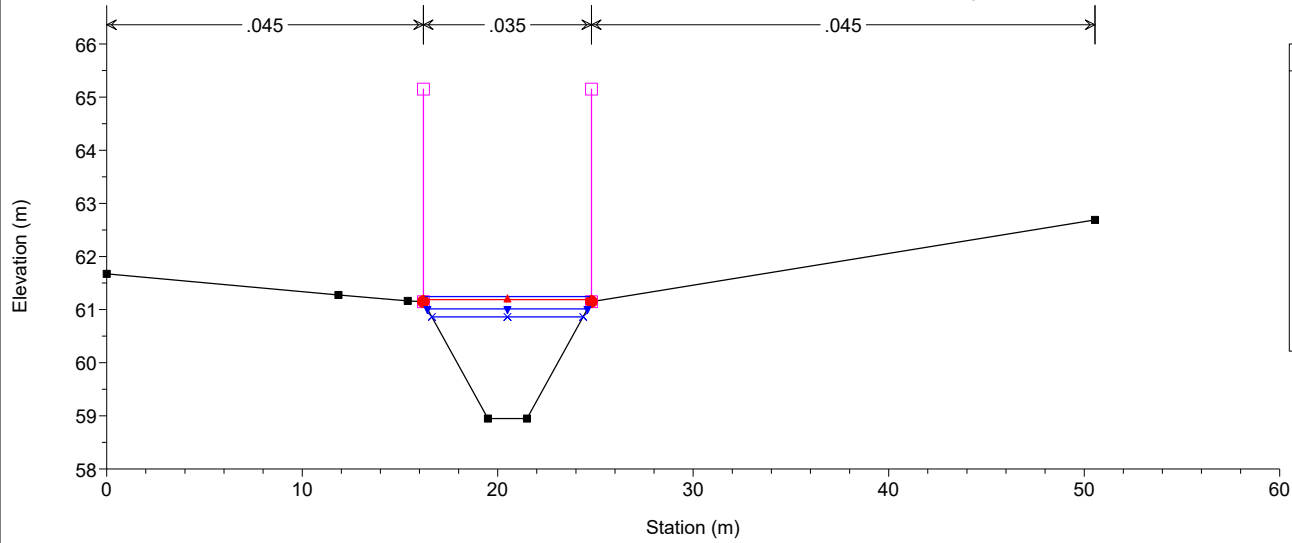
RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

RS = 28 Risagomata



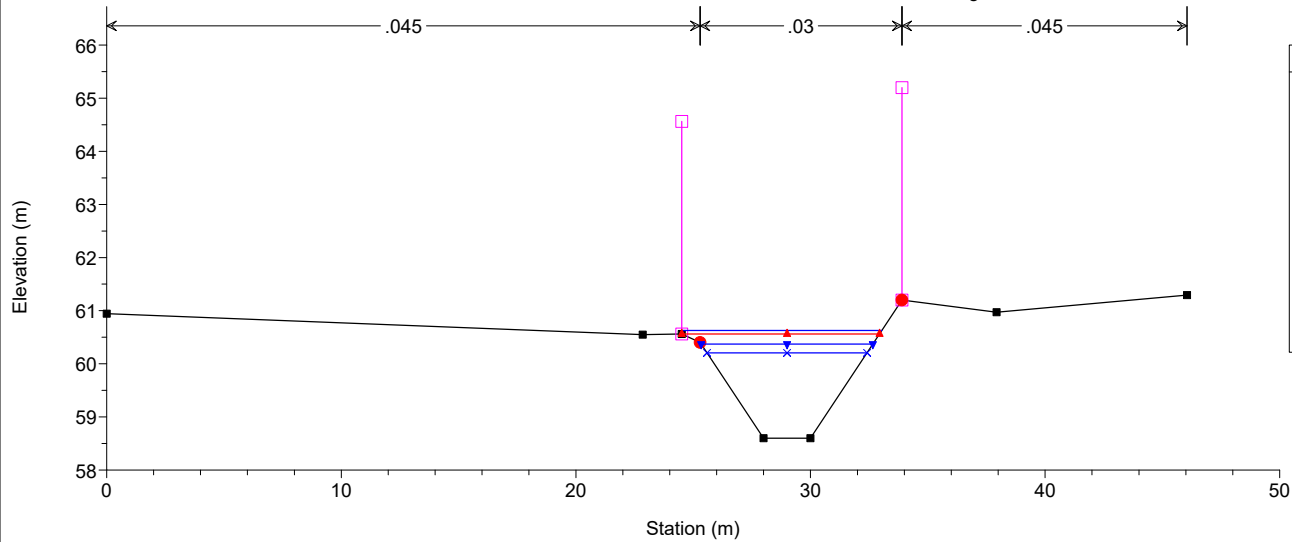


RS = 27 Risagomata

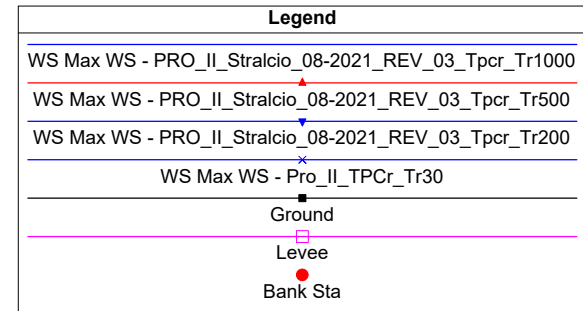
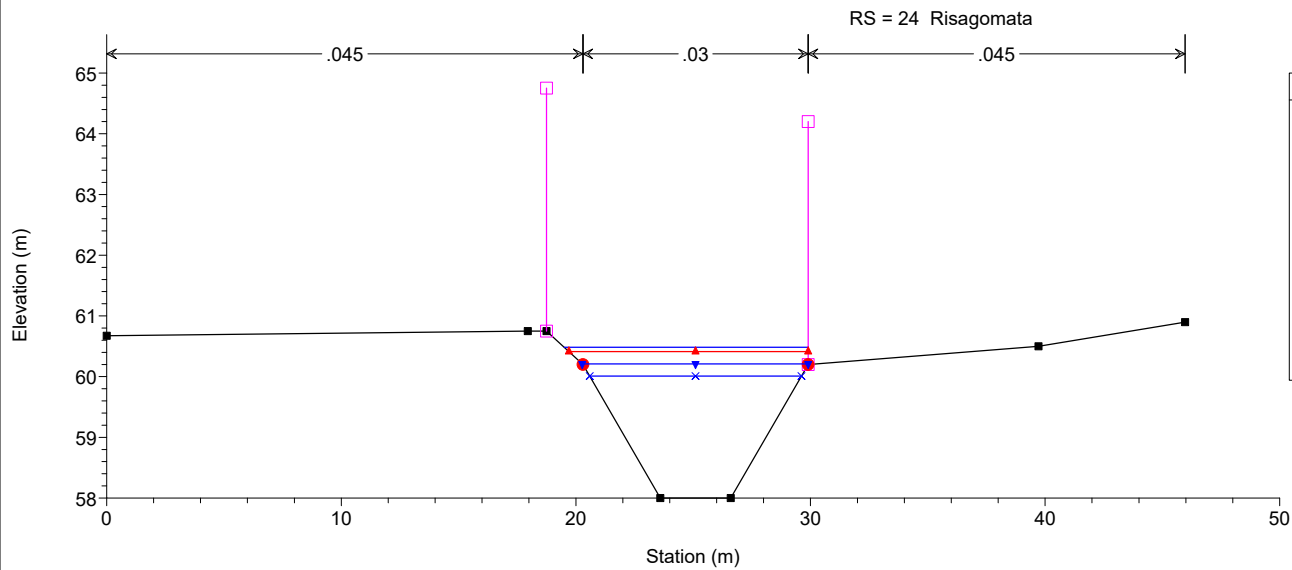
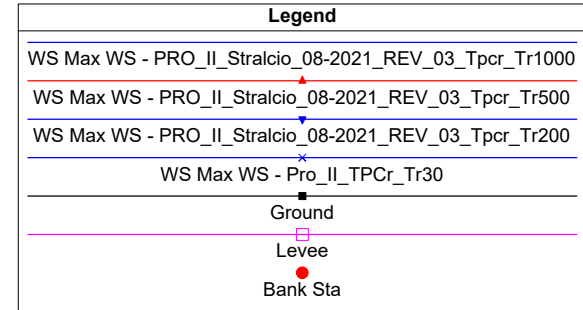
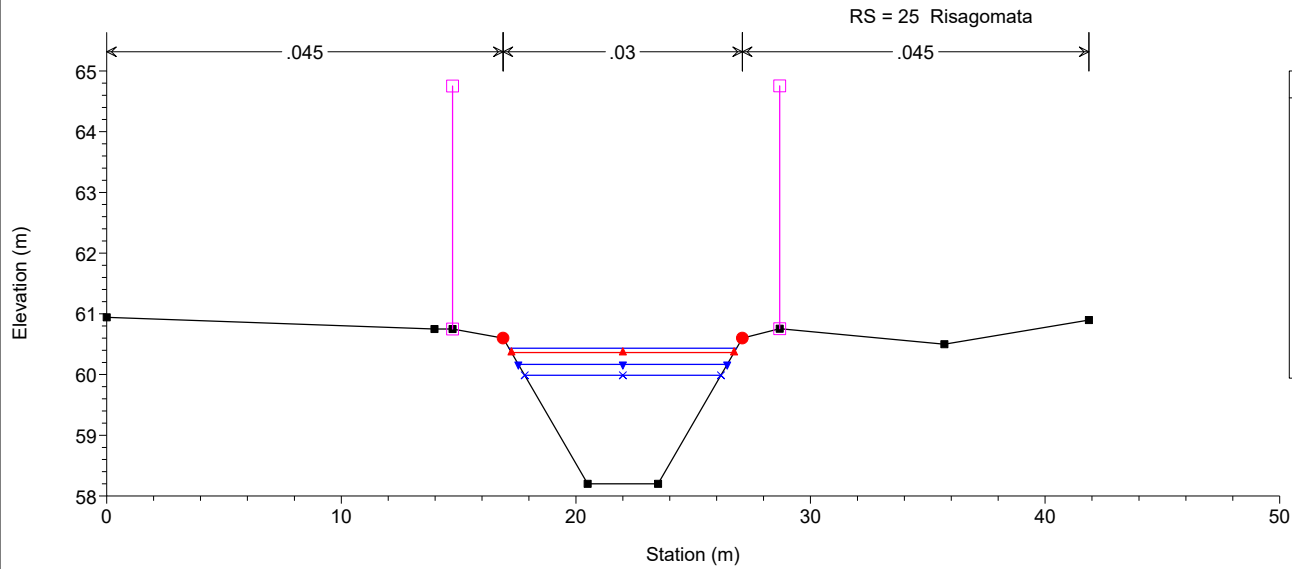


Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	—
Bank Sta	●

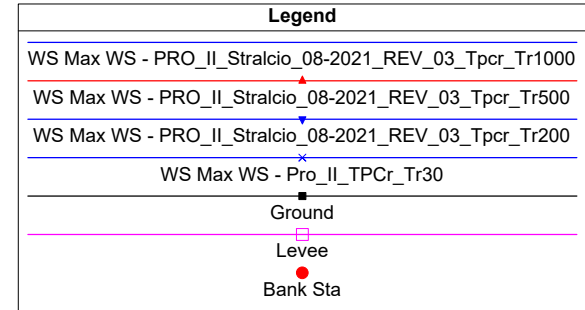
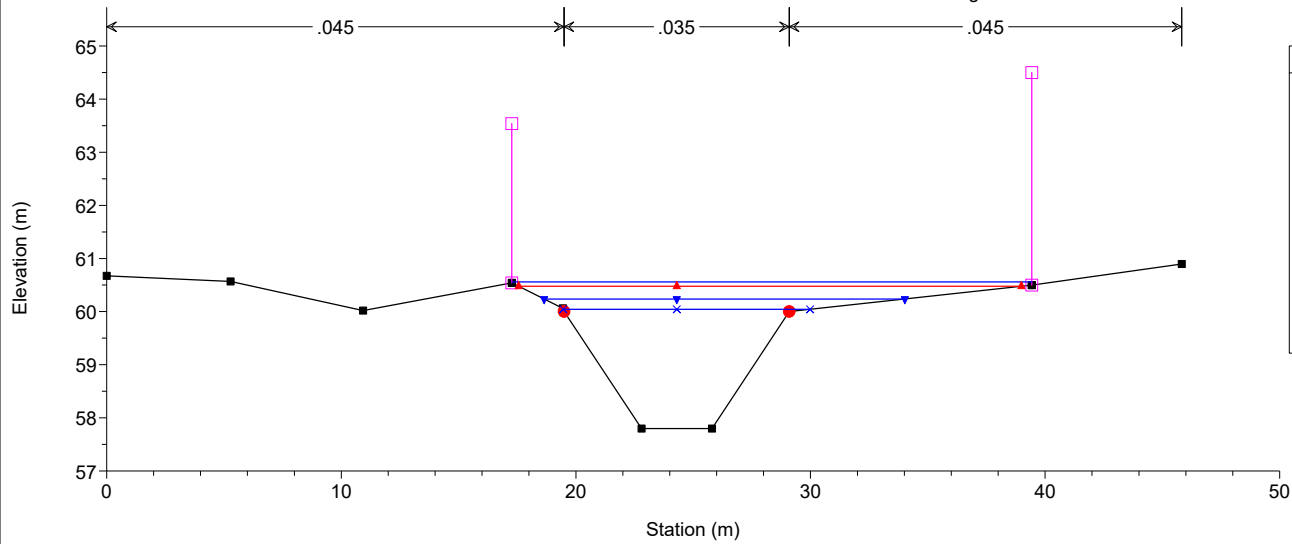
RS = 26 Risagomata



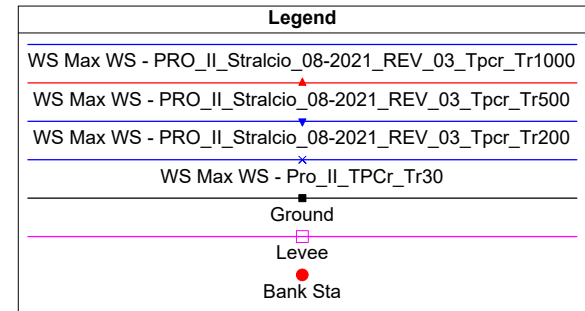
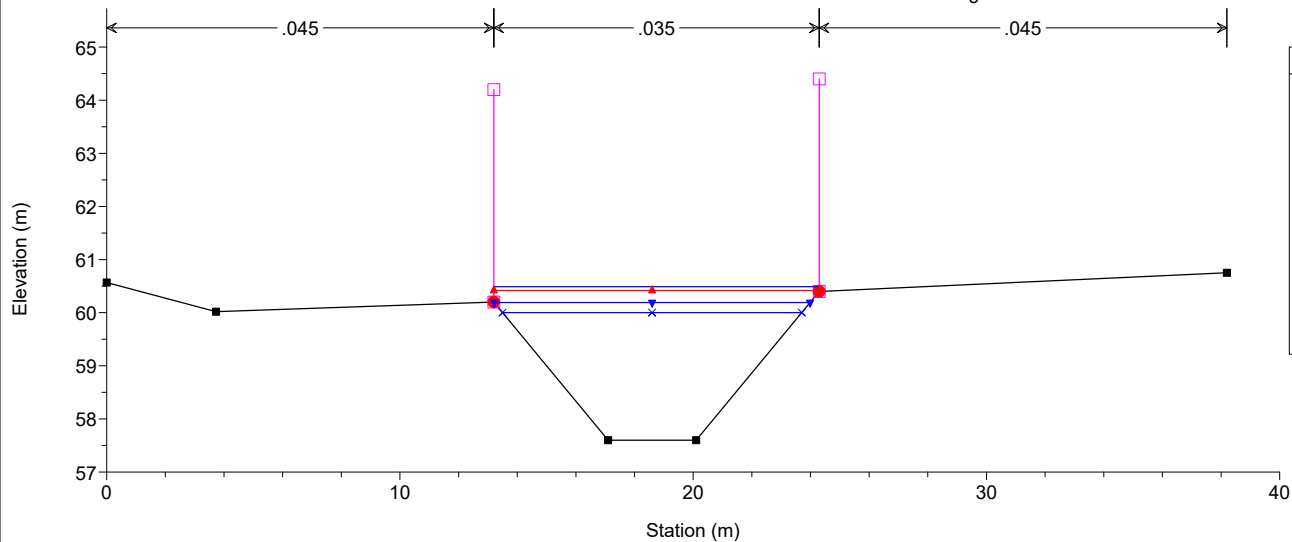
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	—
Bank Sta	●



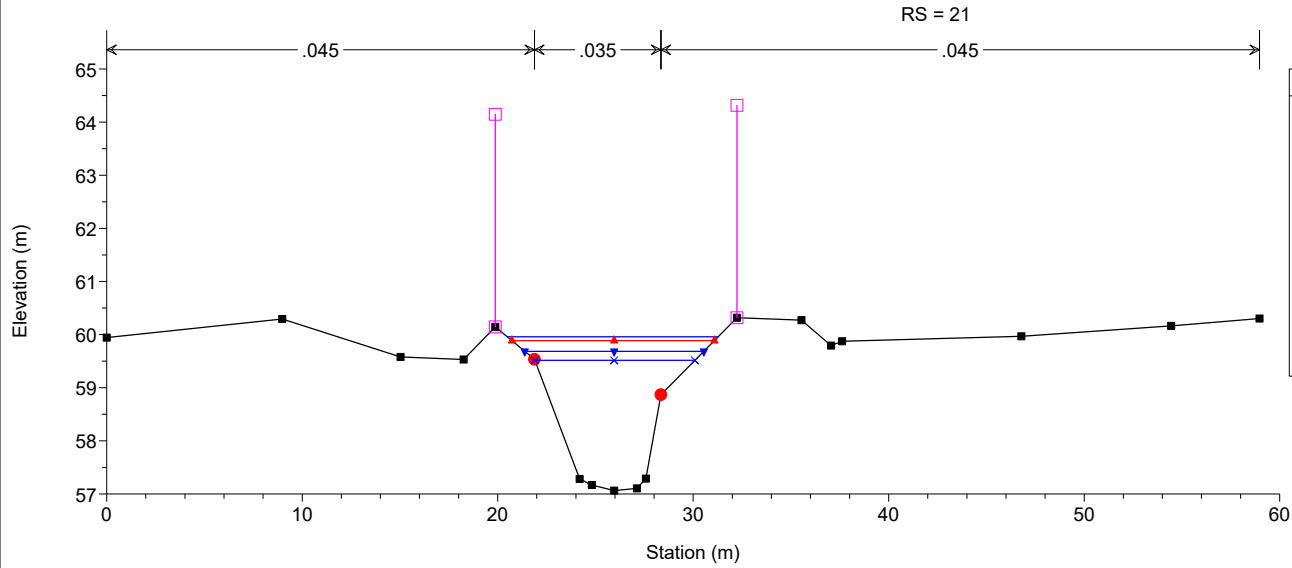
RS = 23 Risagomata



RS = 22 Risagomata

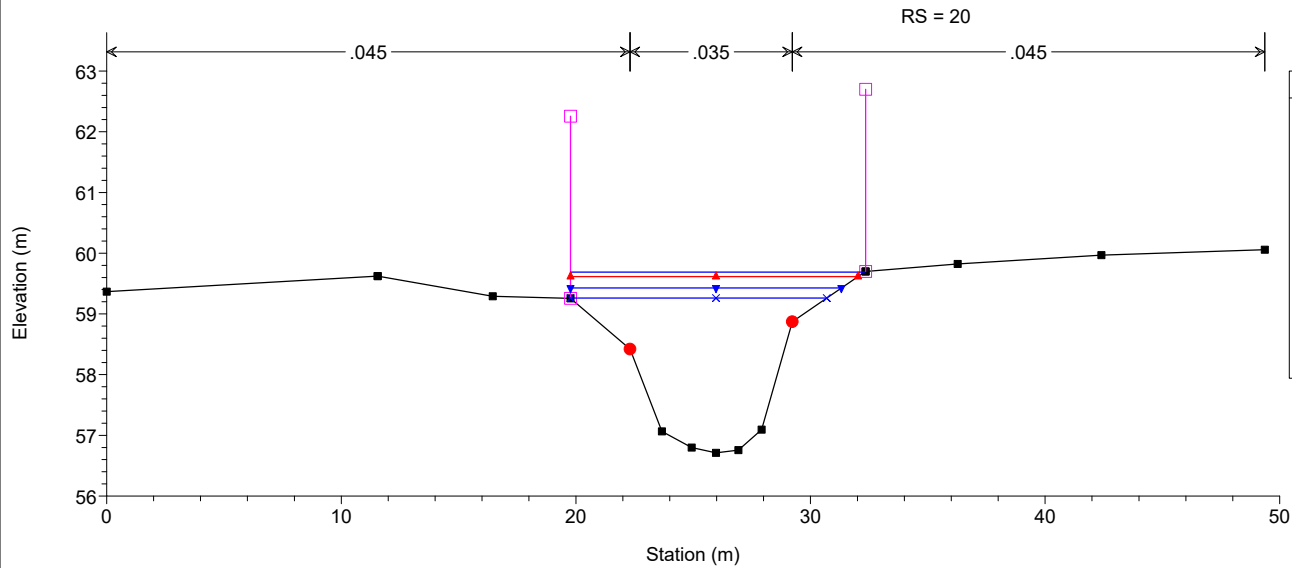


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



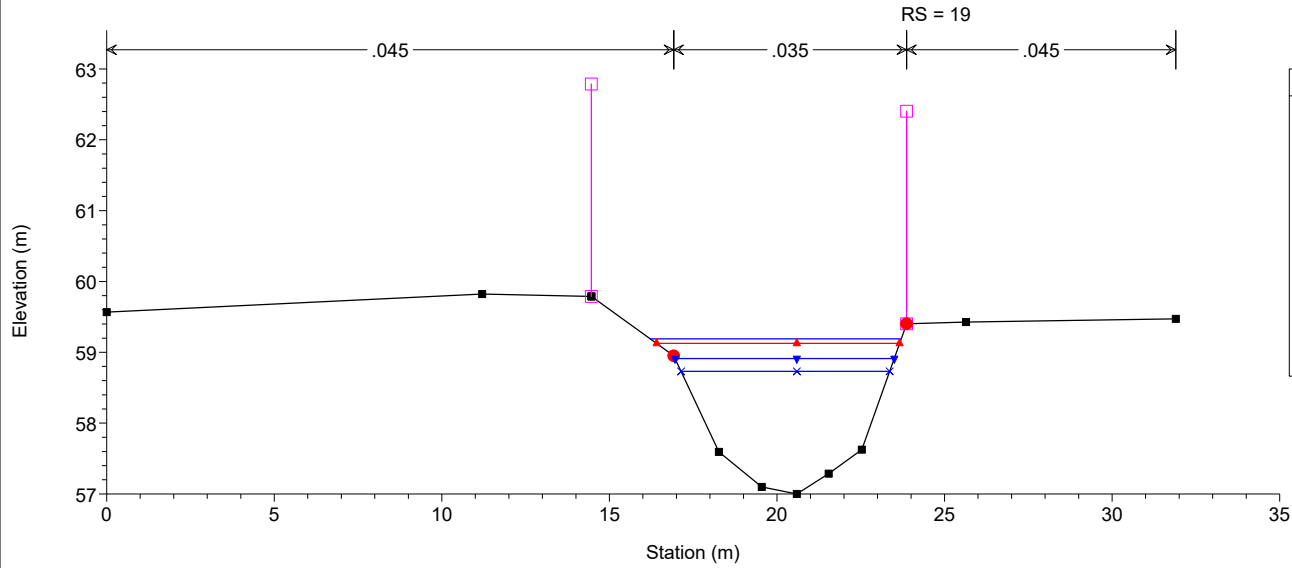
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



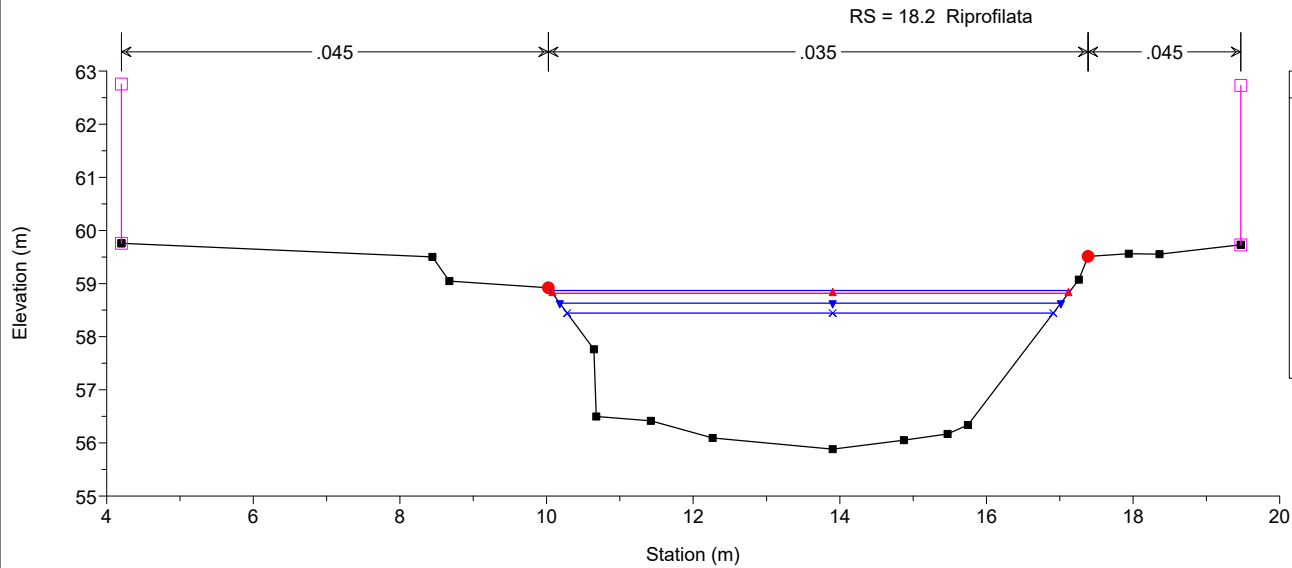
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

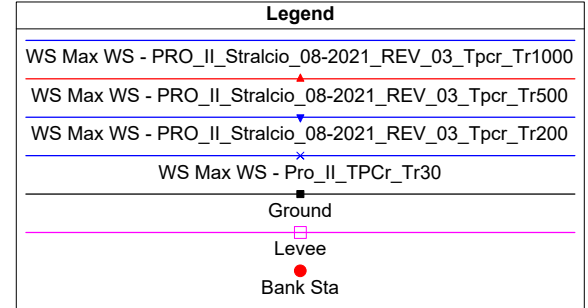
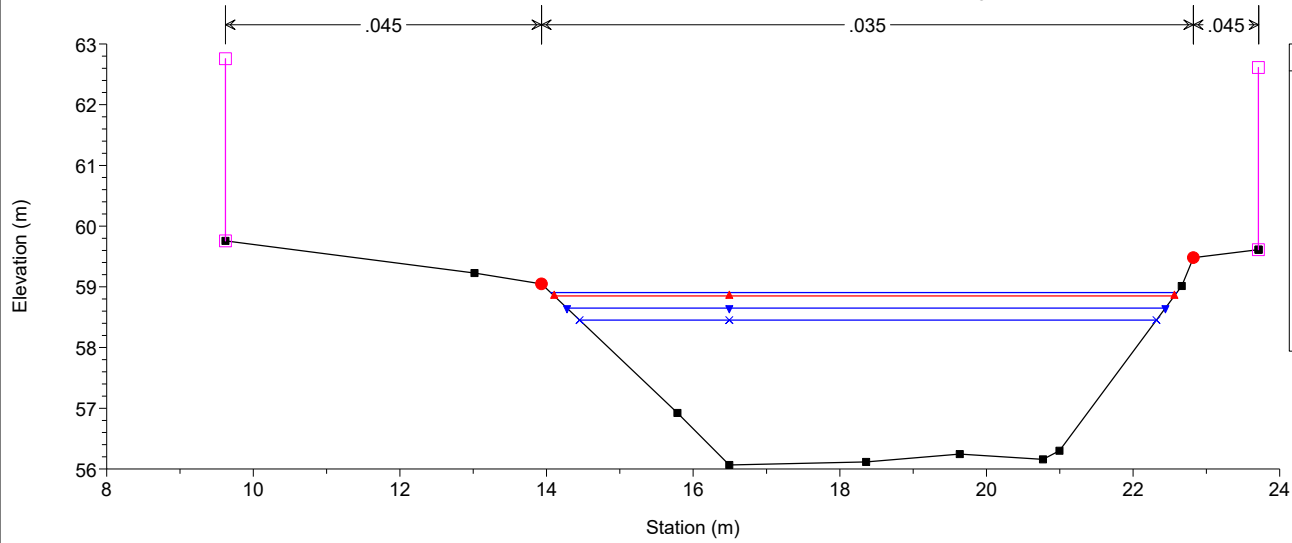
RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

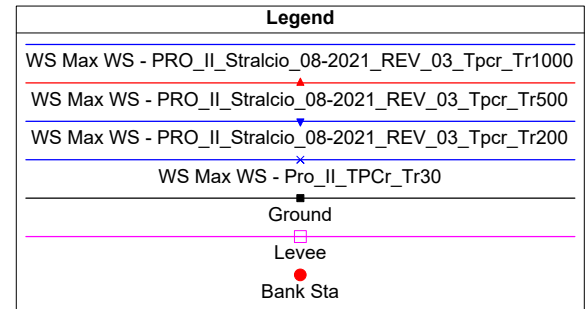
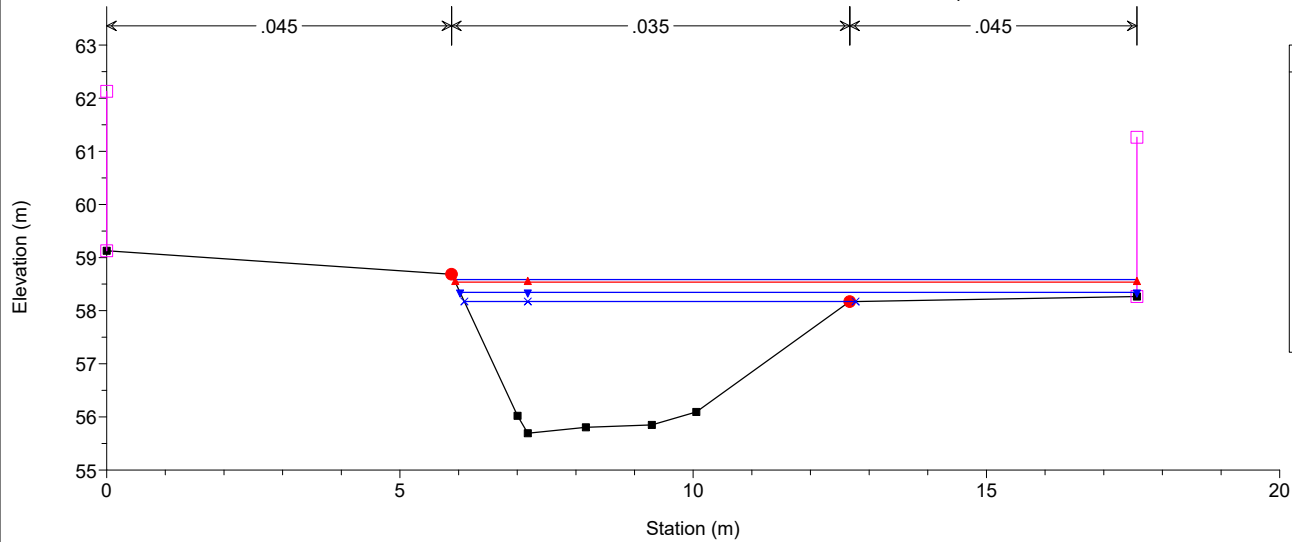
RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

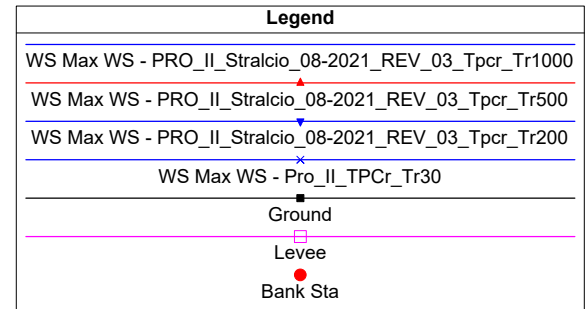
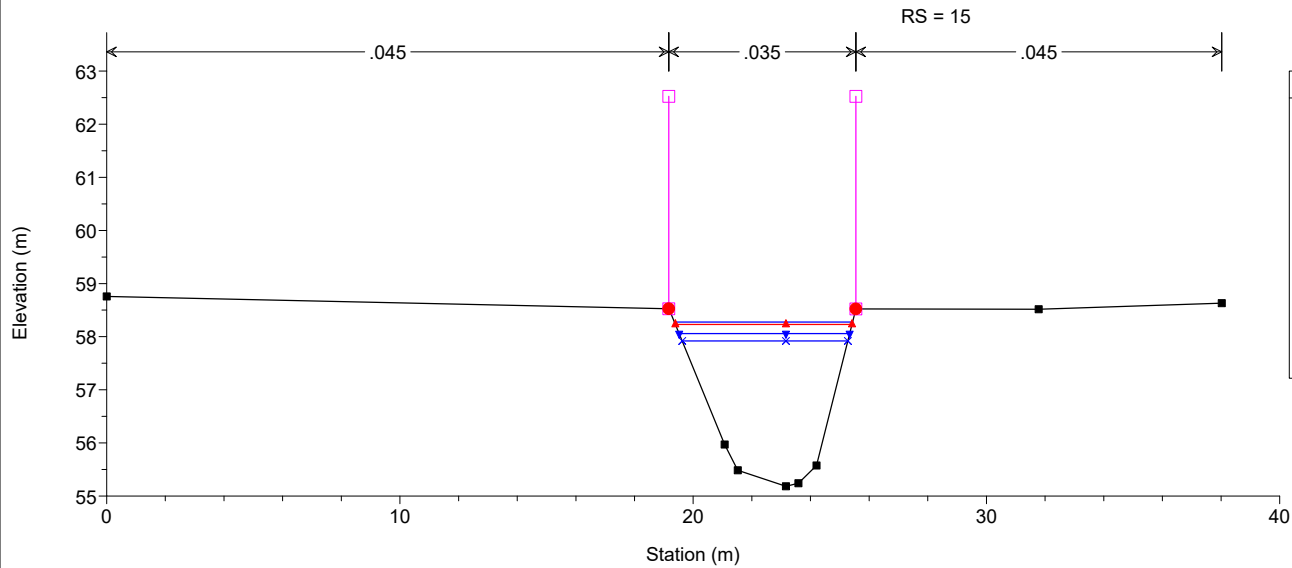
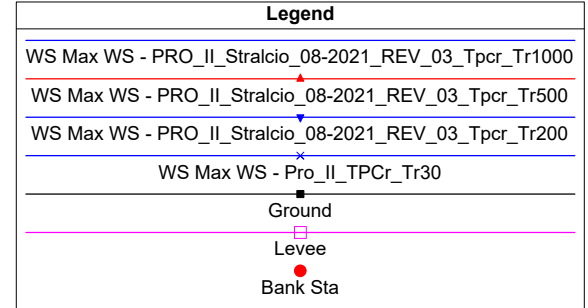
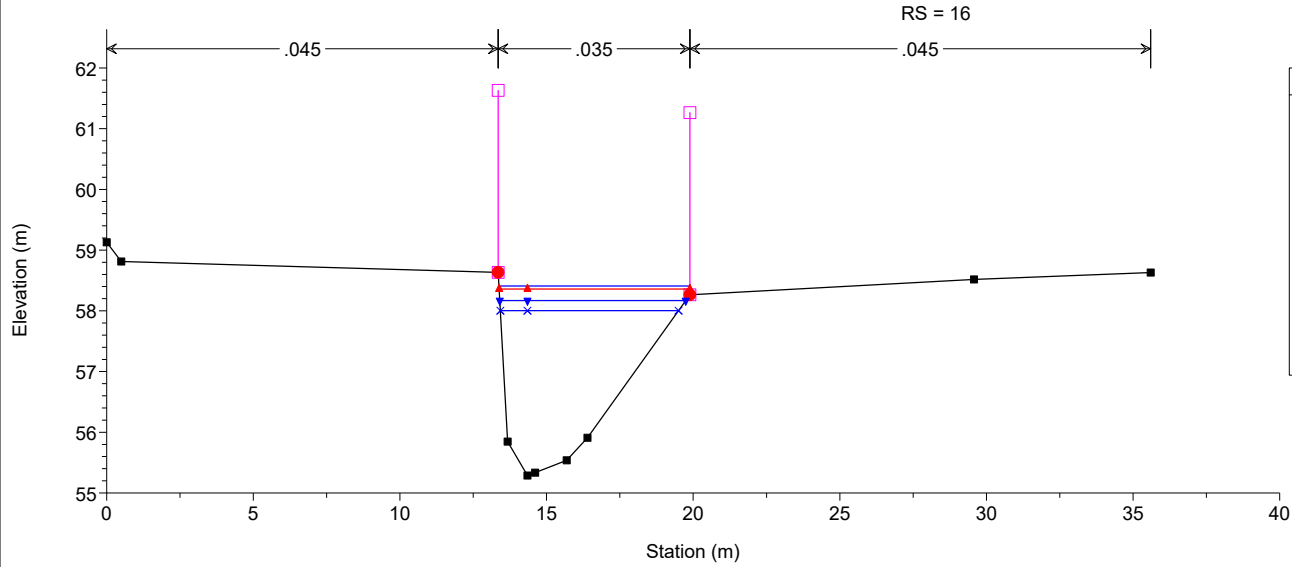
RS = 18.1 Risagomata



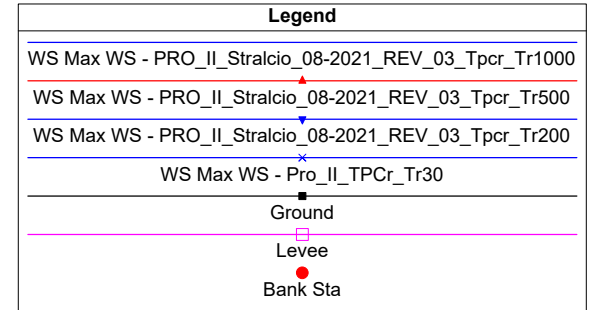
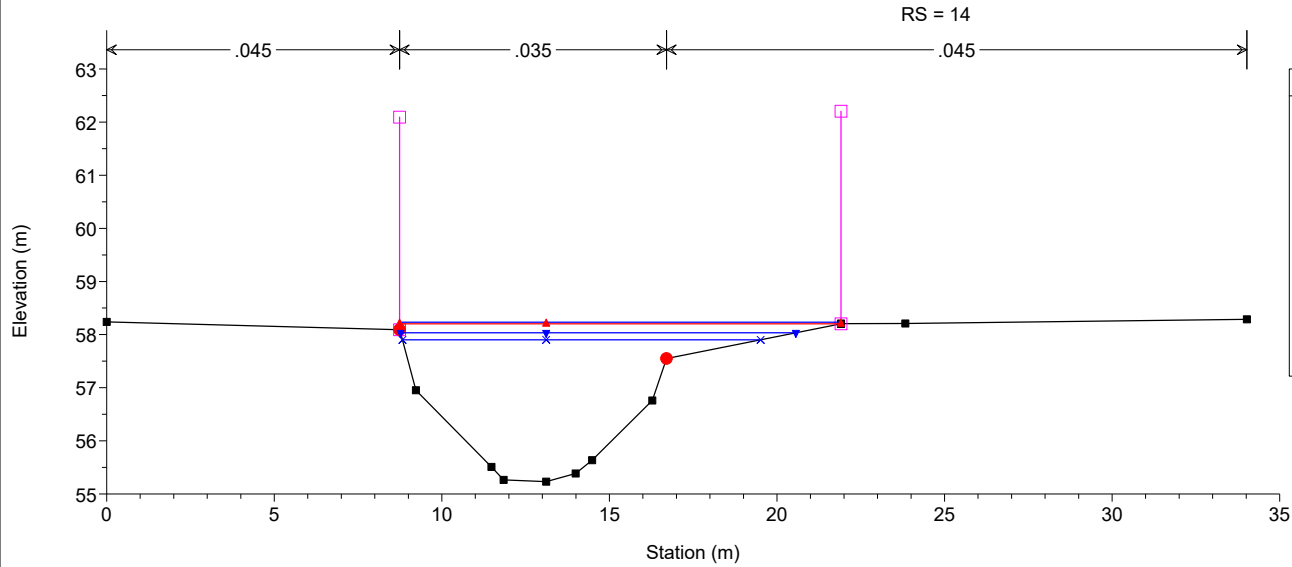
RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

RS = 17 Riprofilata

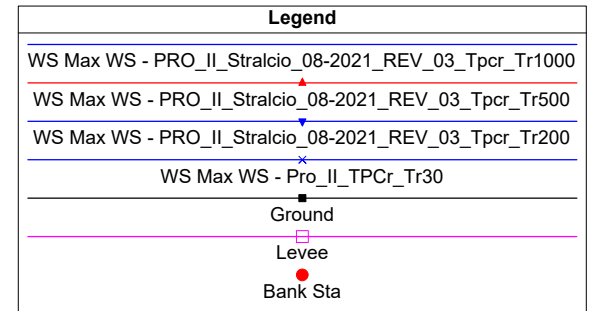
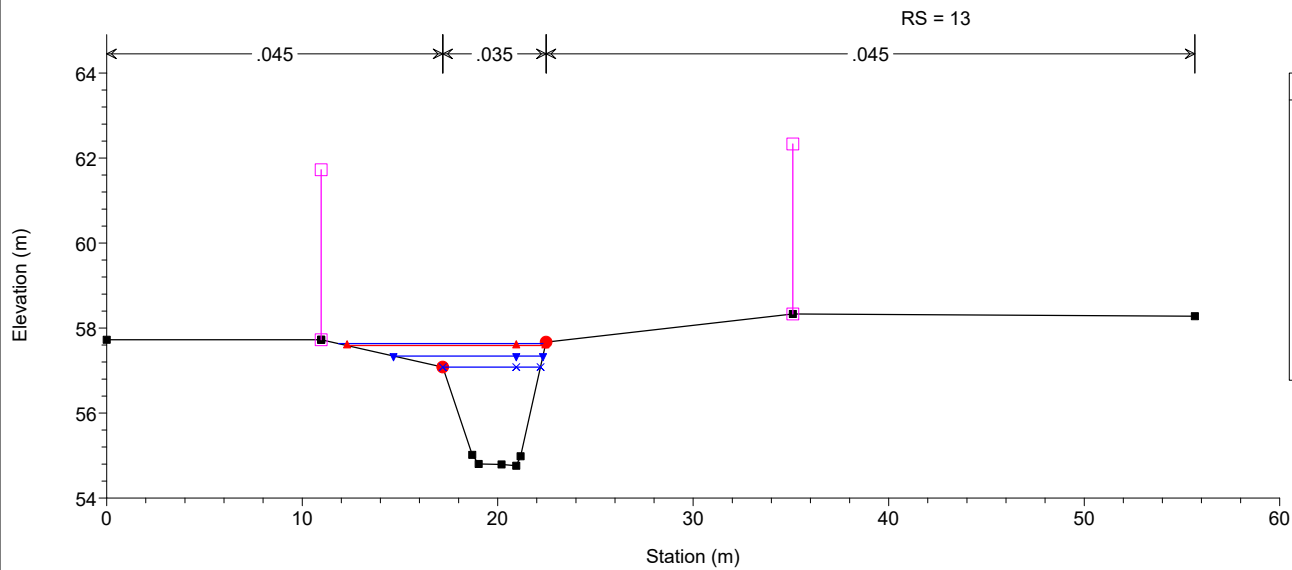




RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

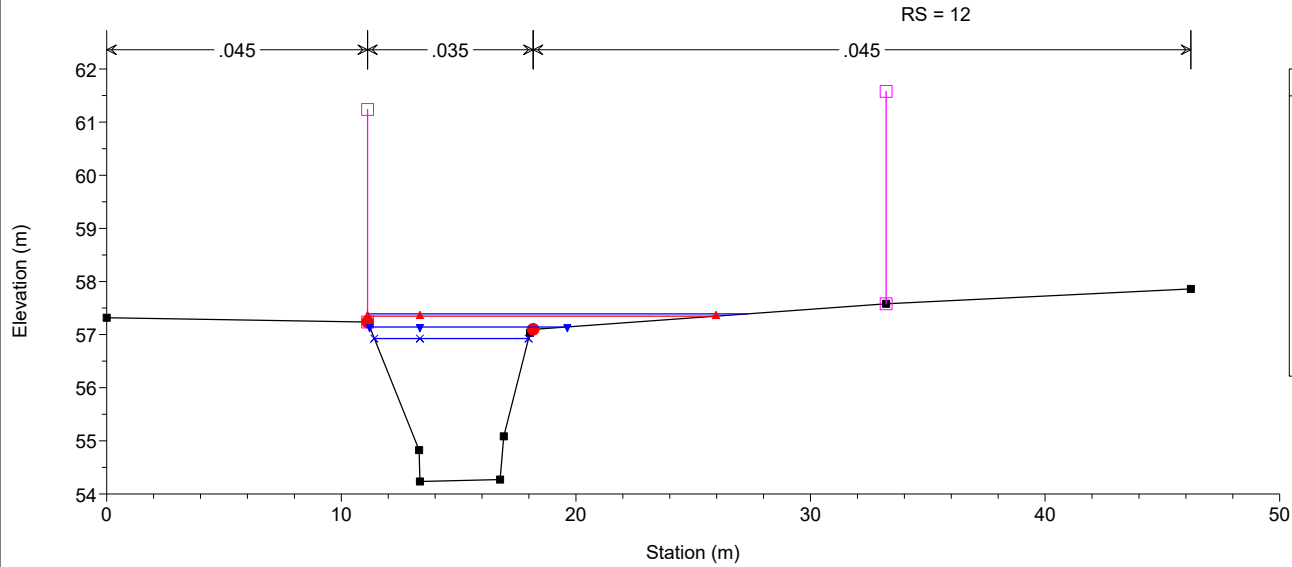


RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



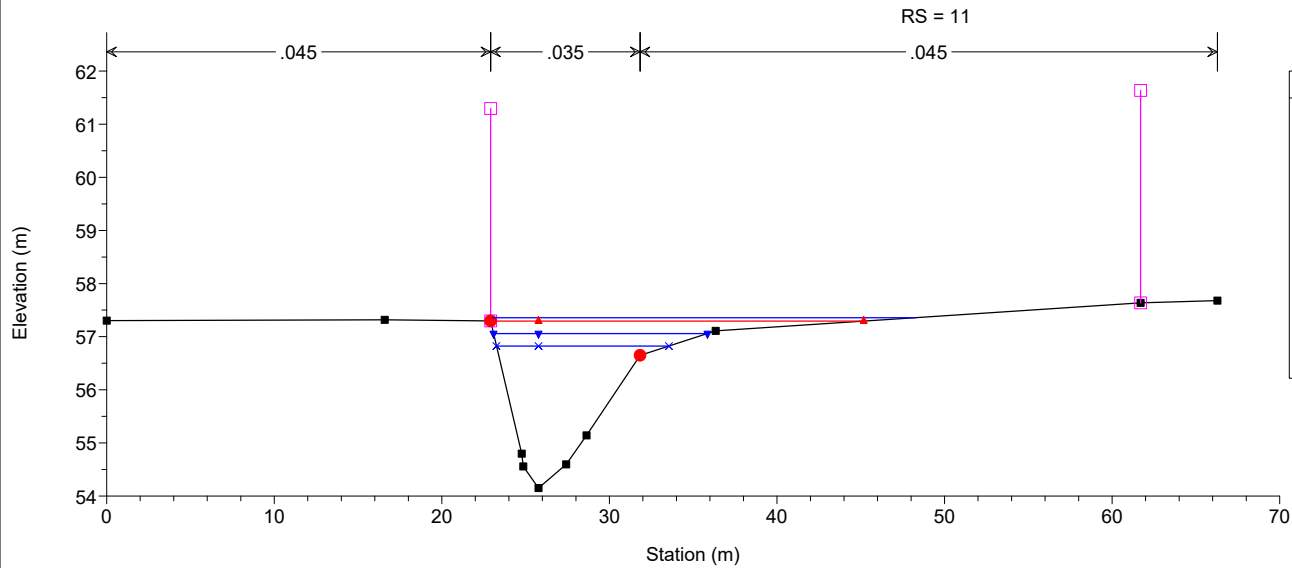


RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



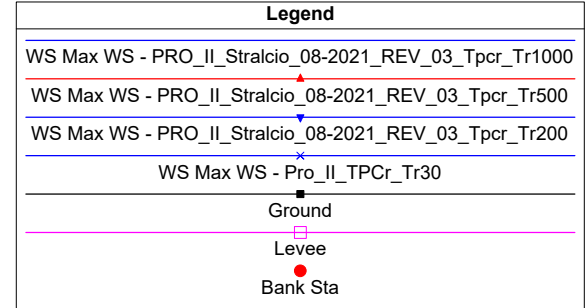
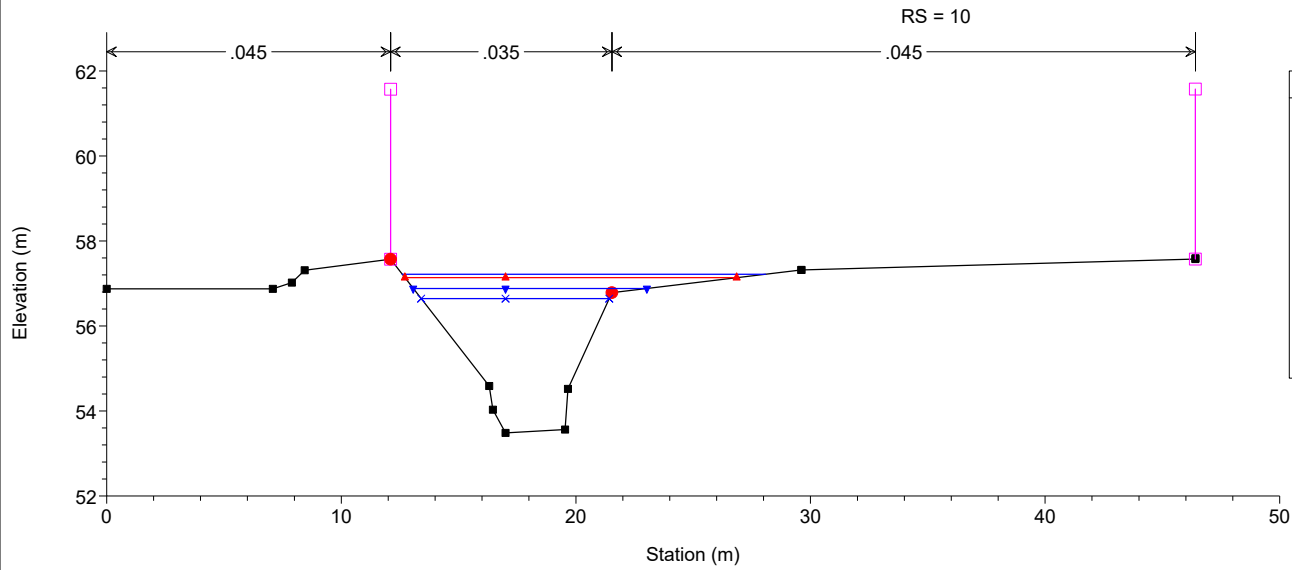
Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

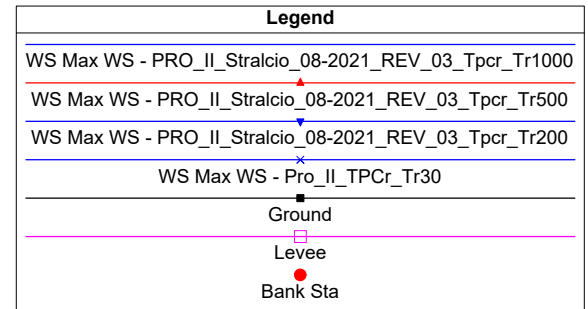
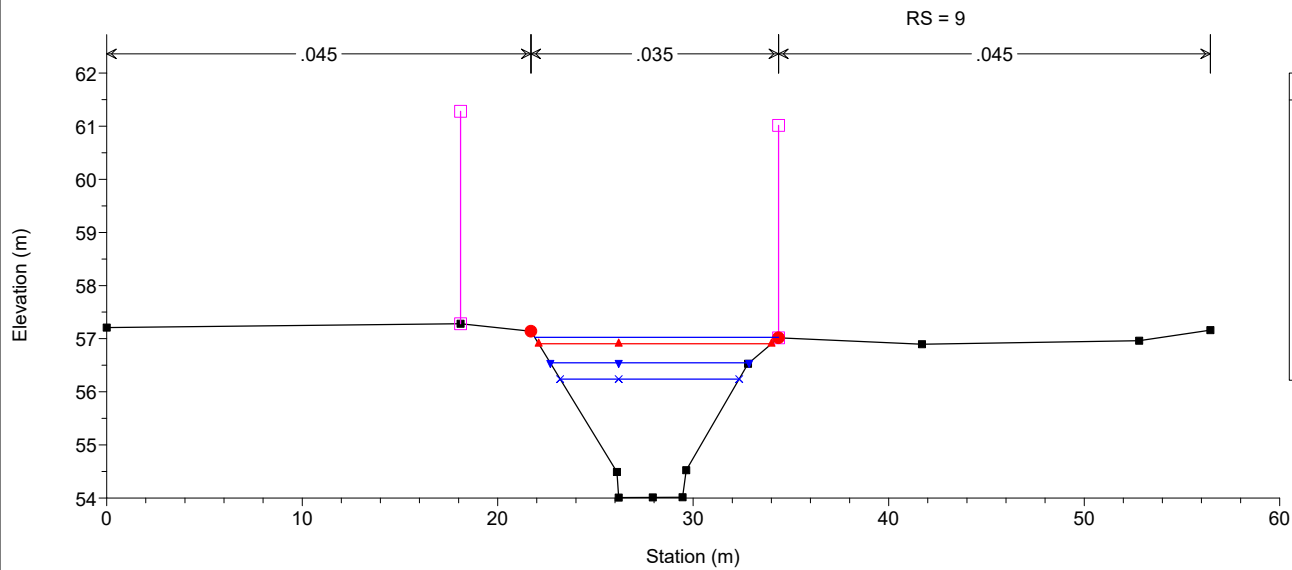


Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	□
Bank Sta	●

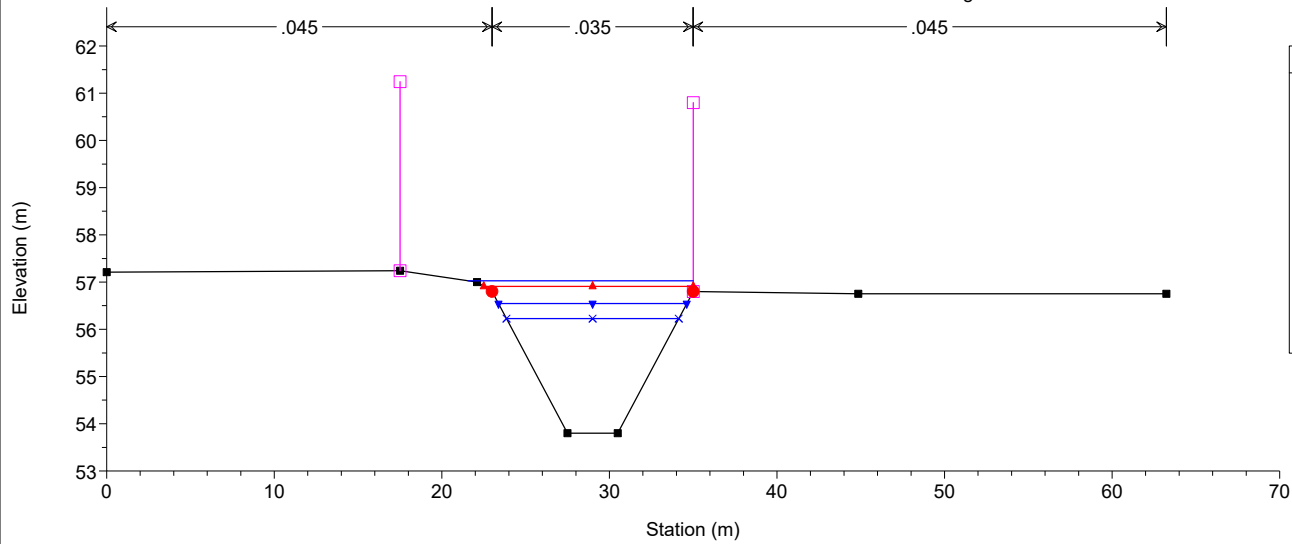
RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalcio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

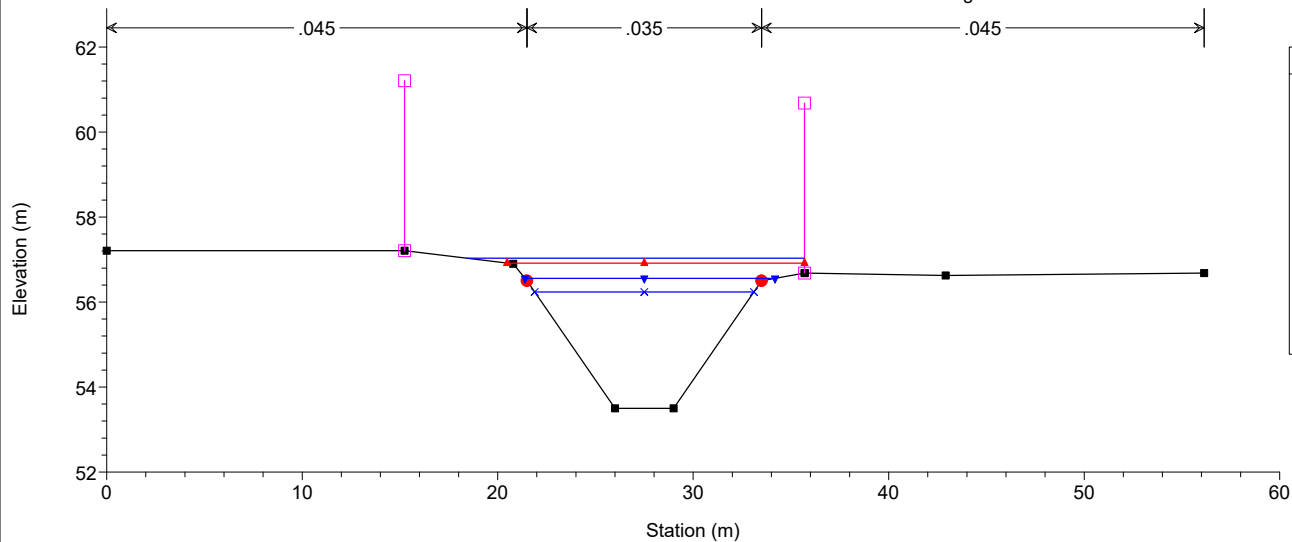


RS = 8 Risagomata



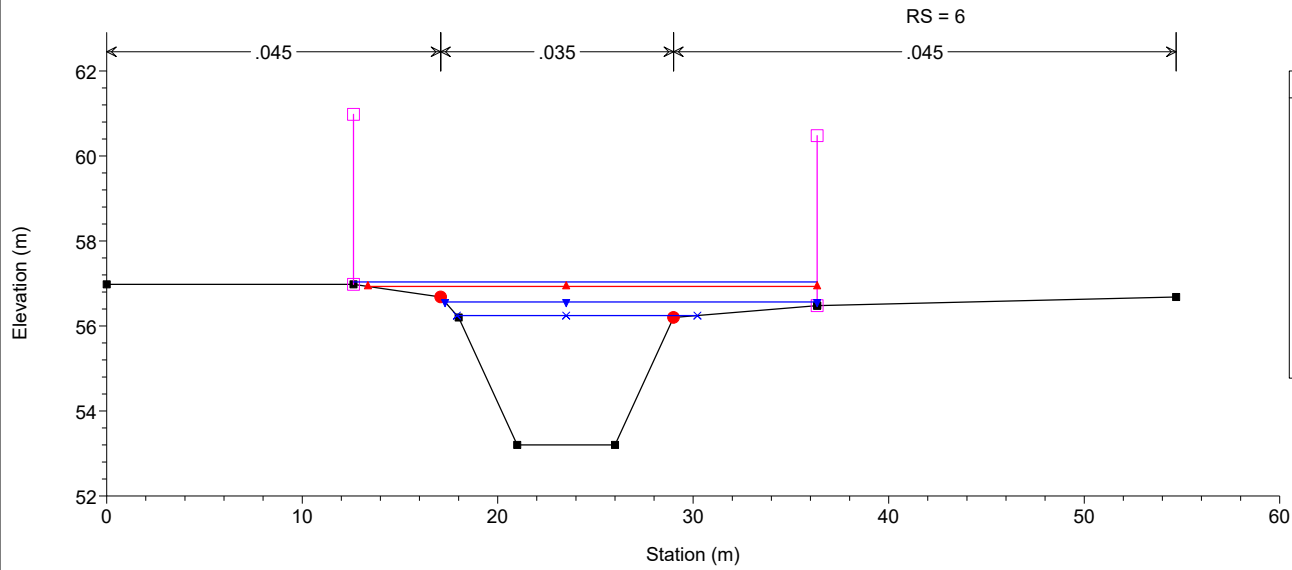
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	□
Bank Sta	●

RS = 7 Risagomata

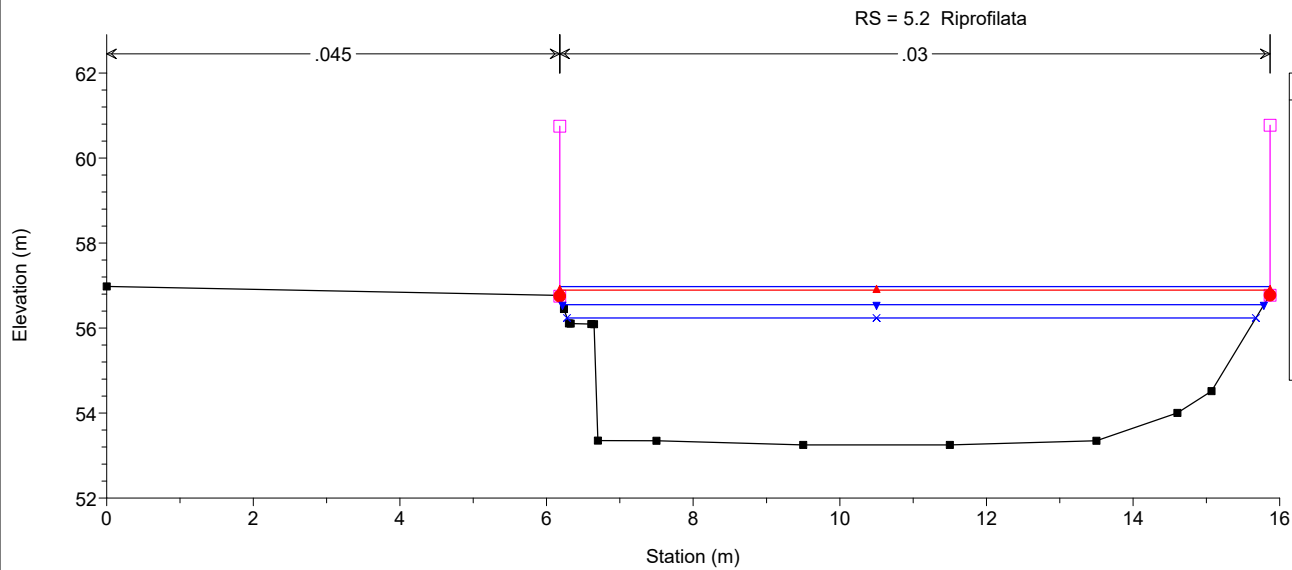


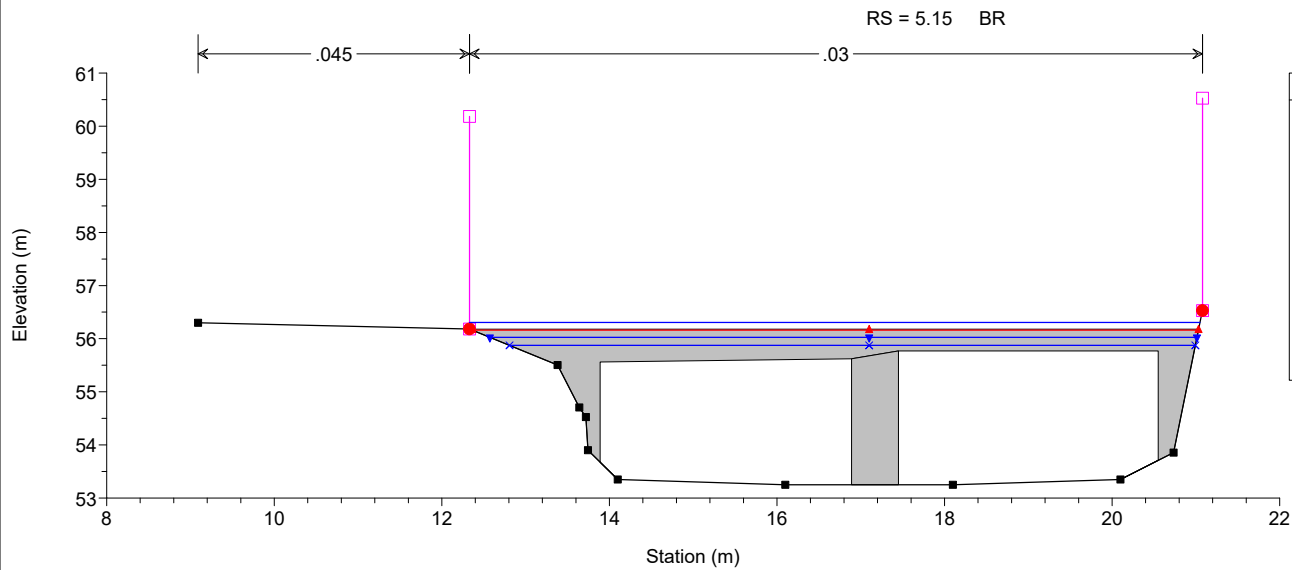
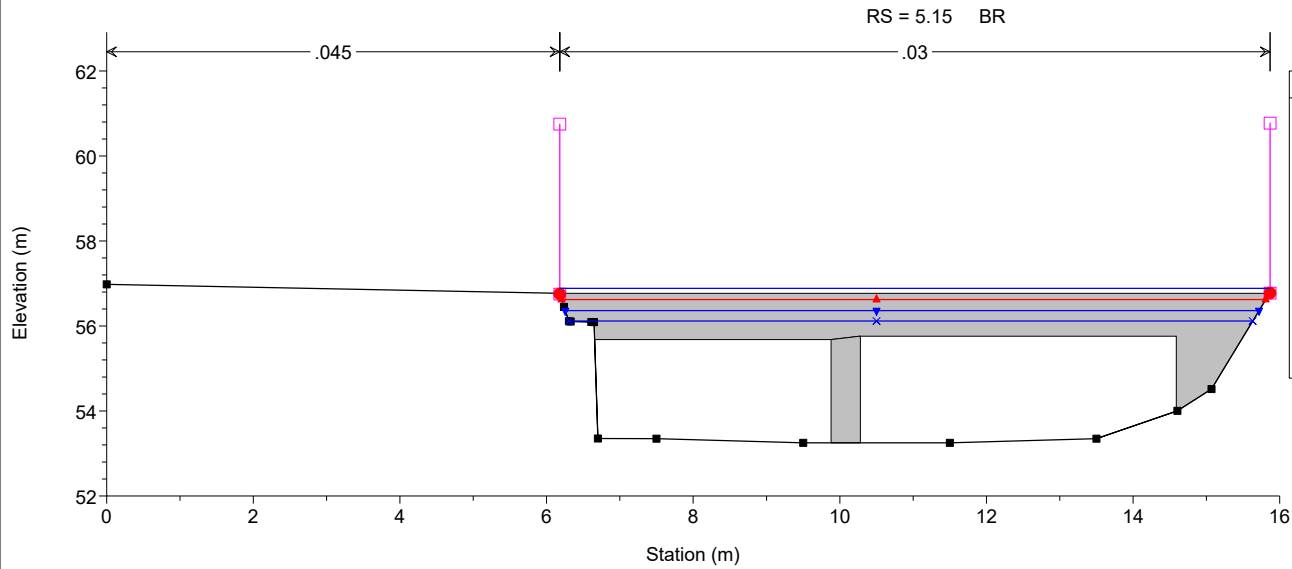
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	—
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023

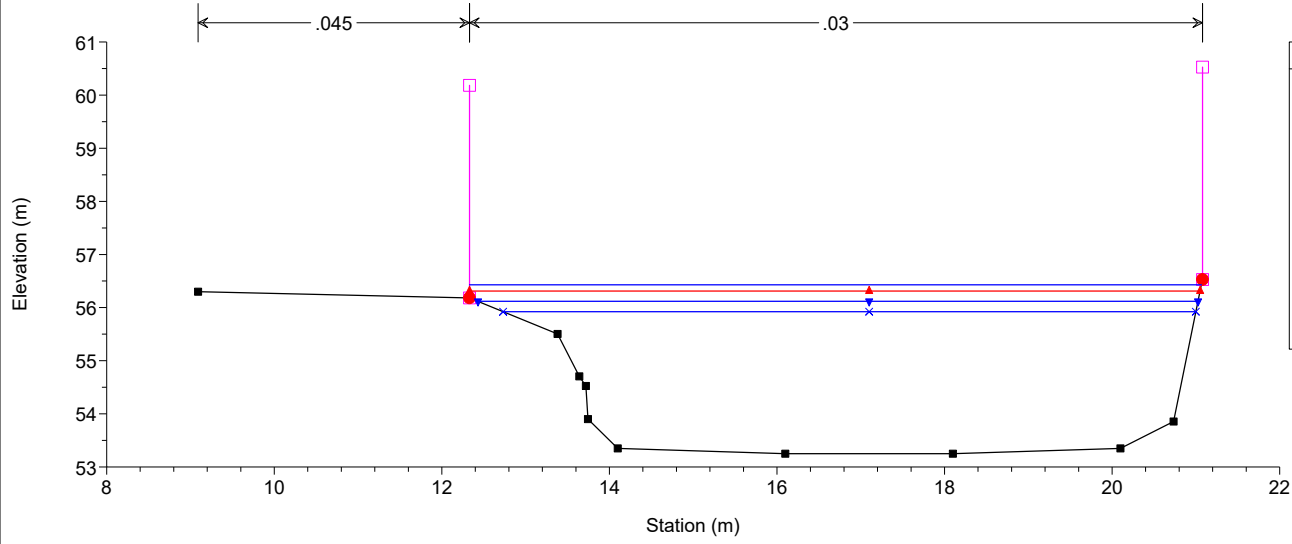


RioPietroso Plan: 1) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr1000 2/23/2023 2) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr500 8/27/2021 3) PRO\_II\_Stalicio\_08-2021\_REV\_03\_Tpcr\_Tr200 8/27/2021 4) Pro\_II\_TPCr\_Tr30 1/30/2023



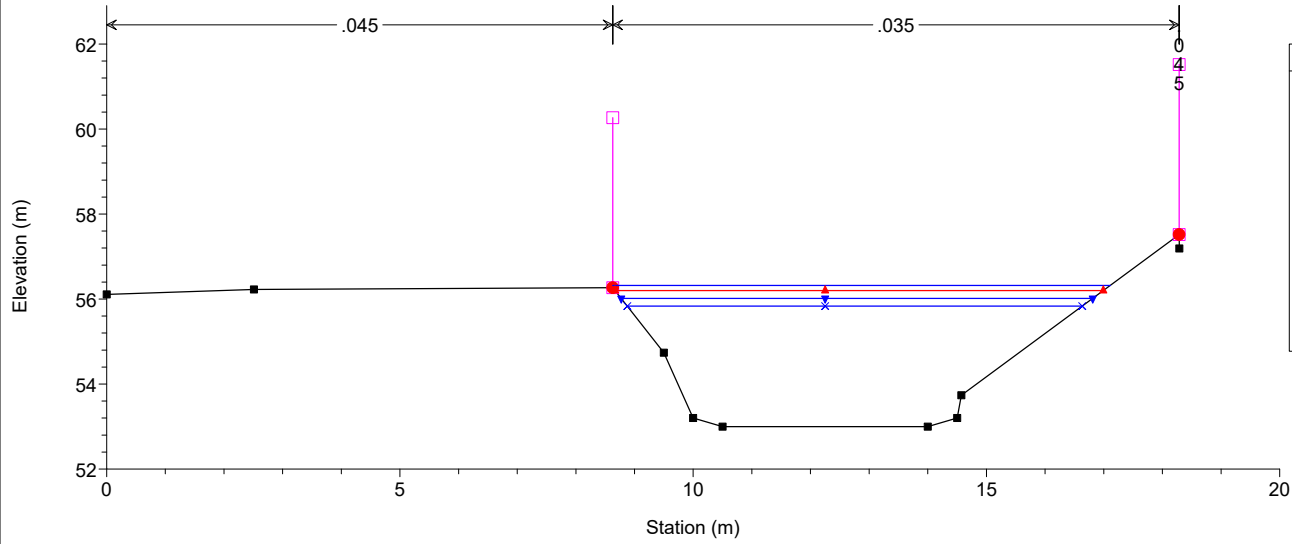


RS = 5.1 Riprofilata



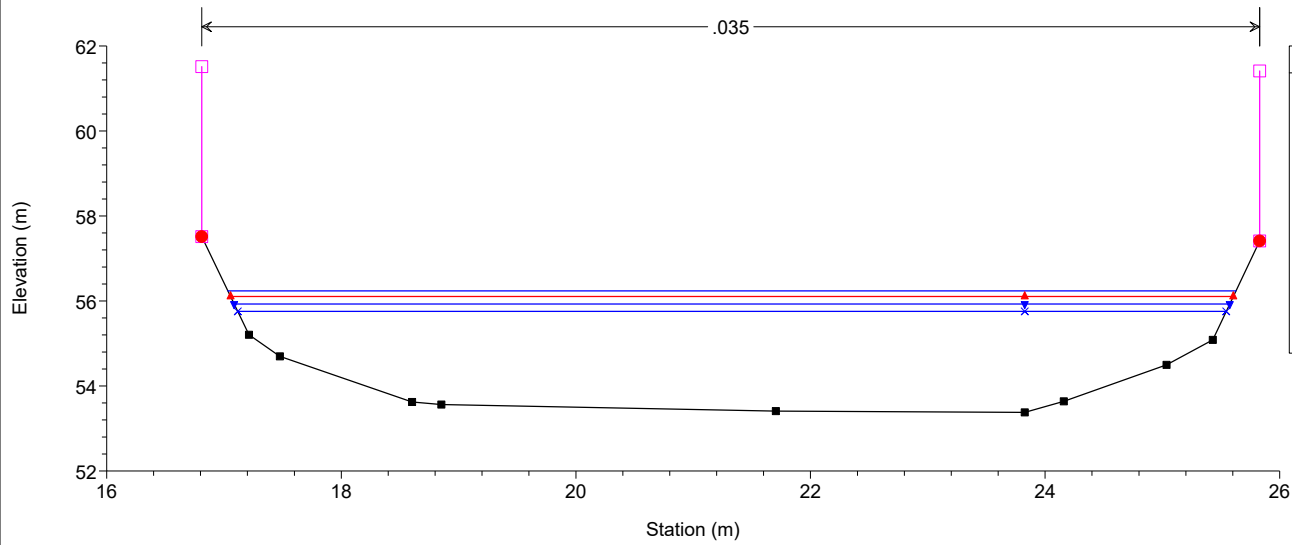
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

RS = 4 Riprofilata



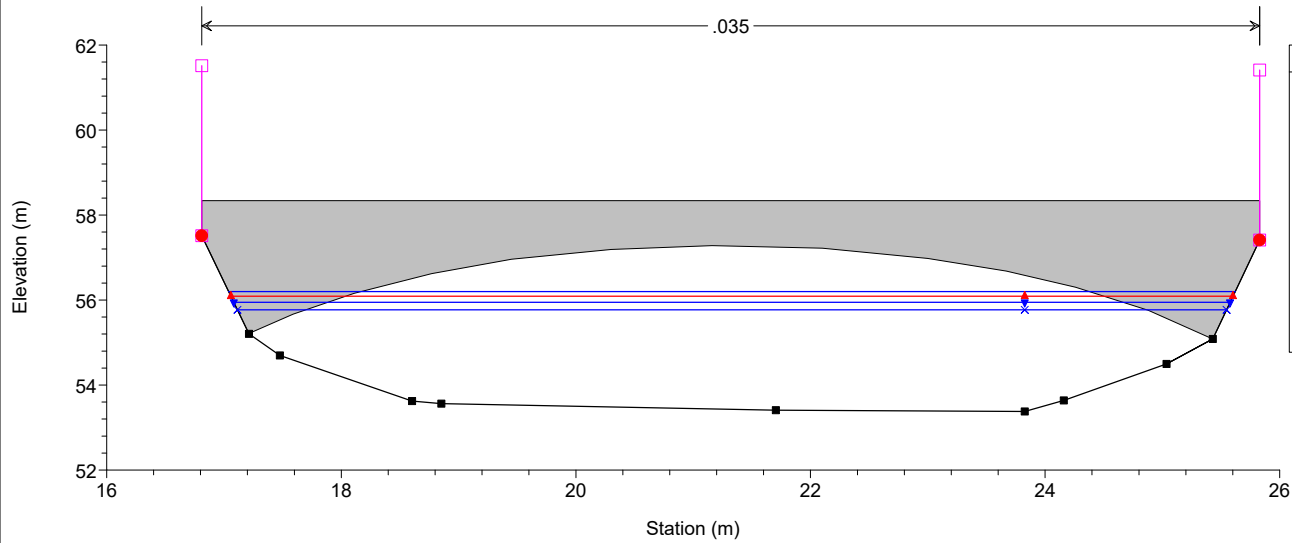
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

RS = 3.2



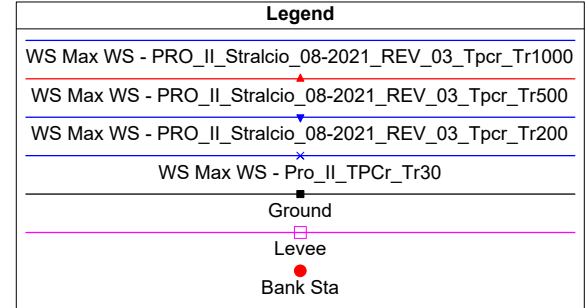
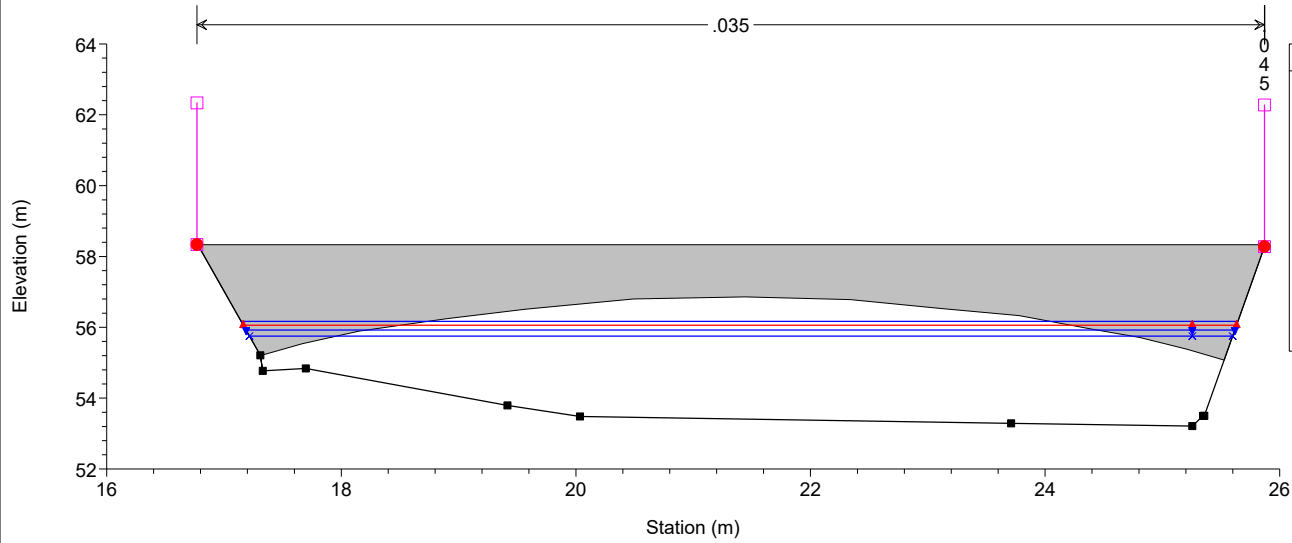
Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

RS = 3.15 BR

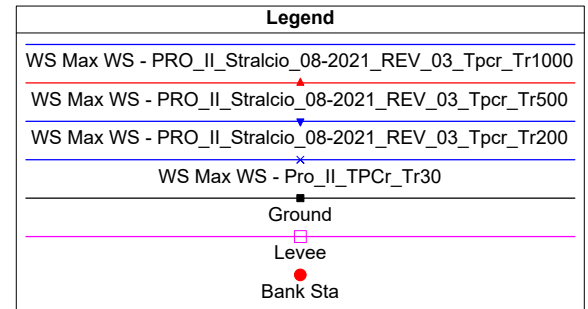
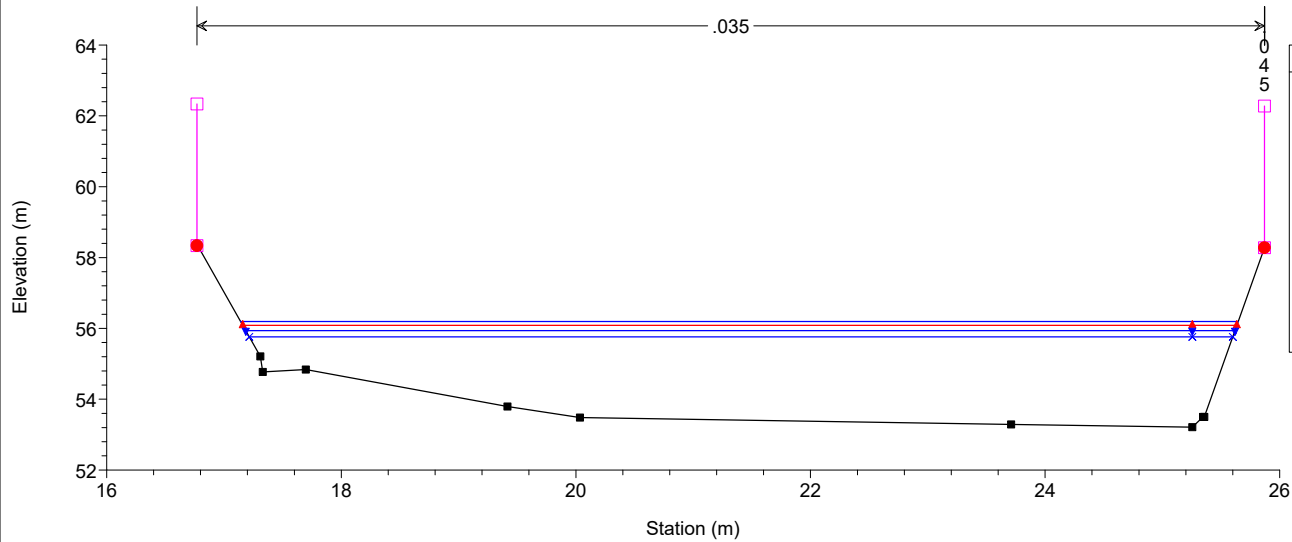


Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	×
WS Max WS - Pro_II_TPCr_Tr30	■
Ground	■
Levee	□
Bank Sta	●

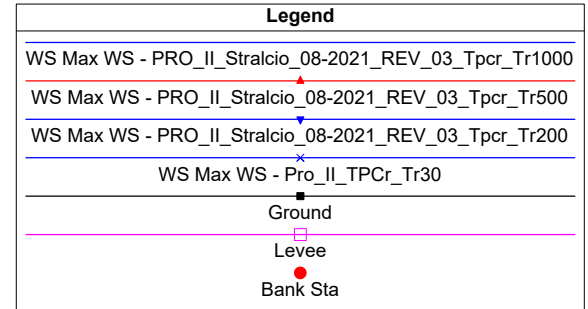
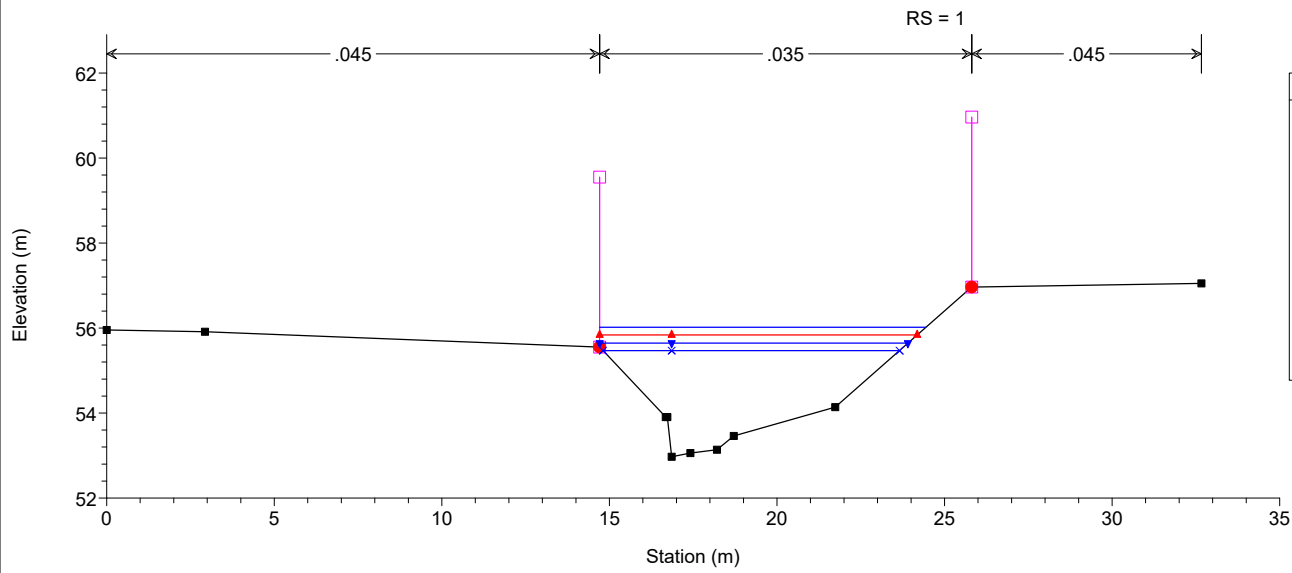
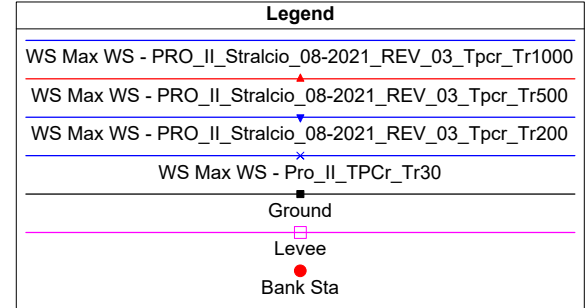
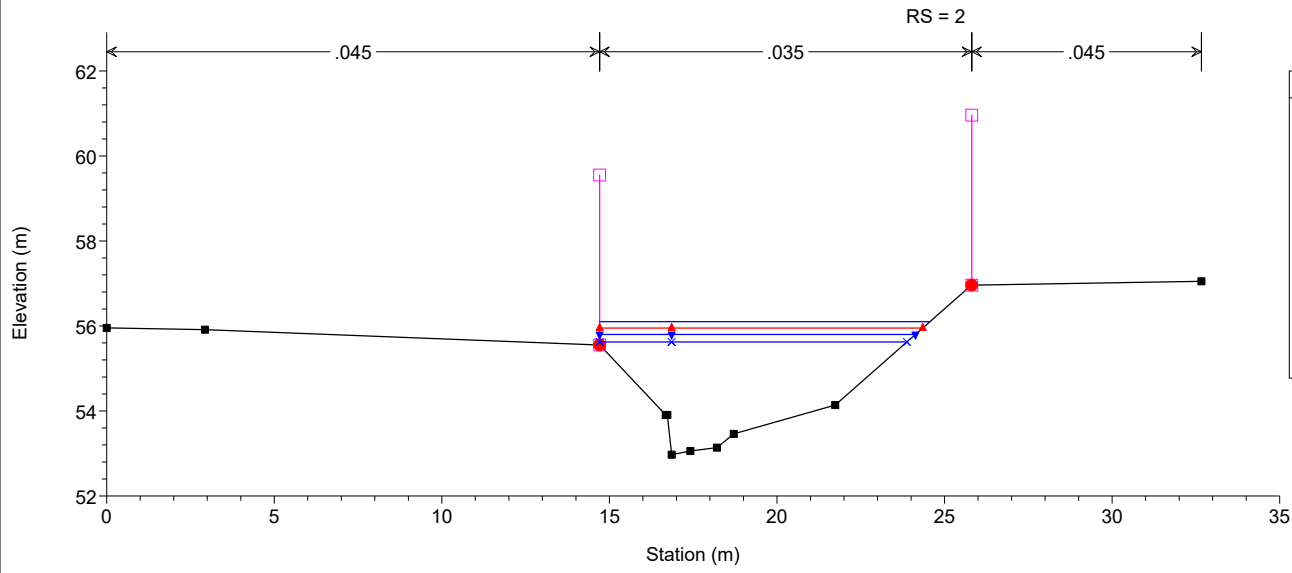
RS = 3.15 BR

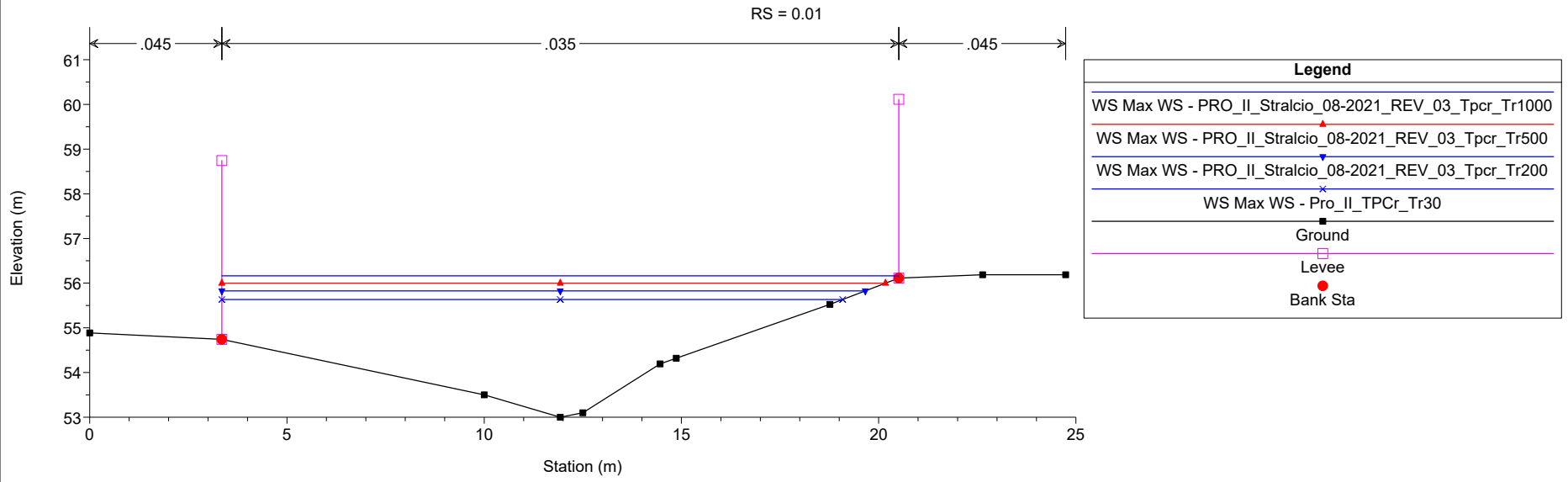


RS = 3.1









HEC-RAS River: Rio Amese Reach: Amese Profile: Max WS

Reach	River Sta	Profile	Plan	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
Amese	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.48	70.70	75.70		75.73	0.000144	0.79	148.42	95.05	0.13
Amese	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.54	70.70	75.57		75.59	0.000153	0.79	135.79	91.52	0.13
Amese	55	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.62	70.70	75.05		75.08	0.000229	0.88	92.06	78.09	0.16
Amese	55	Max WS	Pro_II_TPCr_Tr30	44.83	70.70	73.90		73.99	0.000997	1.38	32.95	18.51	0.31
Amese	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.47	70.68	75.70		75.72	0.000173	0.74	163.53	93.48	0.11
Amese	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.67	70.68	75.57		75.58	0.000186	0.75	151.09	90.70	0.12
Amese	54	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.75	70.68	75.05		75.07	0.000309	0.88	106.96	80.05	0.15
Amese	54	Max WS	Pro_II_TPCr_Tr30	45.95	70.68	73.50	73.28	74.24	0.012228	3.83	12.88	19.80	0.85
Amese	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.46	69.93	75.70		75.71	0.000106	0.63	188.26	90.81	0.09
Amese	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.66	69.93	75.57		75.58	0.000111	0.63	176.16	88.48	0.09
Amese	53	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.74	69.93	75.05		75.06	0.000157	0.69	132.78	79.56	0.11
Amese	53	Max WS	Pro_II_TPCr_Tr30	44.69	69.93	73.27	72.55	73.66	0.005883	2.92	21.23	34.93	0.60
Amese	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.45	69.70	75.70		75.71	0.000060	0.48	223.62	87.64	0.07
Amese	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.65	69.70	75.57		75.57	0.000061	0.48	211.87	86.31	0.07
Amese	52	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.74	69.70	75.05		75.06	0.000077	0.50	168.67	81.22	0.08
Amese	52	Max WS	Pro_II_TPCr_Tr30	42.39	69.70	73.17		73.30	0.002474	1.93	36.50	52.91	0.40
Amese	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.44	69.37	75.70		75.71	0.000040	0.40	257.50	90.10	0.05
Amese	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.64	69.37	75.57		75.57	0.000040	0.39	245.41	88.84	0.05
Amese	51	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.73	69.37	75.05		75.06	0.000047	0.40	200.83	84.05	0.06
Amese	51	Max WS	Pro_II_TPCr_Tr30	42.31	69.37	73.15		73.20	0.000928	1.27	57.84	66.40	0.24
Amese	50	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.43	68.35	75.70		75.70	0.000009	0.25	435.60	117.98	0.03
Amese	50	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.62	68.35	75.57		75.57	0.000009	0.24	419.77	117.06	0.03
Amese	50	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.71	68.35	75.05		75.05	0.000010	0.23	360.27	113.55	0.03
Amese	50	Max WS	Pro_II_TPCr_Tr30	42.24	68.35	73.13		73.14	0.000064	0.45	155.38	98.29	0.08
Amese	49.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.42	68.17	75.70		75.70	0.000005	0.18	572.03	150.64	0.02
Amese	49.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.61	68.17	75.57		75.57	0.000005	0.18	551.76	149.56	0.02
Amese	49.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.70	68.17	75.05		75.05	0.000005	0.17	475.64	145.46	0.02
Amese	49.5	Max WS	Pro_II_TPCr_Tr30	42.23	68.17	73.13		73.14	0.000028	0.29	217.37	116.61	0.05
Amese	49.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.41	68.00	75.69	70.50	75.72	0.000111	0.85	153.99	138.45	0.11
Amese	49.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.60	68.00	75.55	70.50	75.59	0.000118	0.87	135.22	137.60	0.11
Amese	49.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.70	68.00	75.03	70.45	75.08	0.000147	0.91	65.06	132.57	0.12
Amese	49.4	Max WS	Pro_II_TPCr_Tr30	42.23	68.00	73.10	70.09	73.16	0.000358	1.07	39.58	107.81	0.18
Amese	49.25			Inl Struct									
Amese	49.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	73.29	67.80	70.80	70.40	71.45	0.009132	3.71	25.25	37.49	0.81
Amese	49.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	68.50	67.80	70.76	70.40	71.38	0.008854	3.61	23.53	35.19	0.80
Amese	49.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	55.67	67.80	70.61	70.24	71.15	0.007976	3.30	18.83	27.93	0.75
Amese	49.1	Max WS	Pro_II_TPCr_Tr30	42.23	67.80	70.41		70.82	0.006489	2.83	14.93	8.28	0.67

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	49	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	52.14	67.74	70.69	70.92	71.34	0.011092	3.77	18.85	34.21	0.84
Arnese	49	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	68.41	67.74	70.64	71.10	71.91	0.021561	5.20	17.30	32.04	1.16
Arnese	49	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	55.64	67.74	70.50	70.96	71.66	0.020013	4.83	13.30	25.58	1.12
Arnese	49	Max WS	Pro_II_TPCr_Tr30	42.22	67.74	70.33	70.29	71.20	0.016167	4.14	10.20	6.23	1.00
Arnese	48	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.90	67.42	70.44		70.47	0.000613	1.08	79.28	86.49	0.22
Arnese	48	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	46.29	67.42	70.37		70.41	0.000682	1.12	73.16	86.46	0.23
Arnese	48	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	39.57	67.42	70.03		70.12	0.001692	1.63	43.36	86.31	0.36
Arnese	48	Max WS	Pro_II_TPCr_Tr30	42.22	67.42	69.89		70.08	0.003119	2.14	32.25	73.52	0.49
Arnese	47	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.64	66.62	70.42		70.44	0.000260	0.72	113.83	93.52	0.13
Arnese	47	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.91	66.62	70.35		70.36	0.000279	0.74	107.10	93.42	0.13
Arnese	47	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	38.29	66.62	69.99		70.01	0.000605	1.00	73.03	92.13	0.19
Arnese	47	Max WS	Pro_II_TPCr_Tr30	38.86	66.62	69.16	69.15	69.71	0.013038	3.64	16.79	43.40	0.84
Arnese	46	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.58	65.96	70.42		70.42	0.000016	0.25	324.64	155.00	0.04
Arnese	46	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.83	65.96	70.35		70.35	0.000016	0.24	313.39	155.00	0.04
Arnese	46	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.79	65.96	69.97		69.97	0.000020	0.26	255.11	153.97	0.05
Arnese	46	Max WS	Pro_II_TPCr_Tr30	32.18	65.96	68.61		68.63	0.000381	0.79	77.50	107.80	0.18
Arnese	45	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.57	65.39	70.42		70.42	0.000009	0.19	373.72	140.93	0.03
Arnese	45	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.83	65.39	70.35		70.35	0.000009	0.19	363.46	140.74	0.03
Arnese	45	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.78	65.39	69.97		69.97	0.000010	0.19	310.75	139.62	0.03
Arnese	45	Max WS	Pro_II_TPCr_Tr30	32.08	65.39	68.61		68.61	0.000098	0.46	127.72	129.09	0.09
Arnese	44	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.57	64.35	70.42		70.42	0.000002	0.08	712.33	215.00	0.01
Arnese	44	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.82	64.35	70.35		70.35	0.000002	0.08	696.73	215.00	0.01
Arnese	44	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.78	64.35	69.97		69.97	0.000002	0.08	616.05	209.71	0.01
Arnese	44	Max WS	Pro_II_TPCr_Tr30	32.06	64.35	68.61		68.61	0.000008	0.13	342.34	192.17	0.02
Arnese	43.5	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.56	64.18	70.42		70.42	0.000001	0.07	902.85	285.38	0.01
Arnese	43.5	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.81	64.18	70.35		70.35	0.000001	0.07	882.06	285.38	0.01
Arnese	43.5	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.80	64.18	69.97		69.97	0.000001	0.07	774.82	284.46	0.01
Arnese	43.5	Max WS	Pro_II_TPCr_Tr30	32.01	64.18	68.61		68.61	0.000006	0.12	414.39	245.98	0.02
Arnese	43	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.56	64.04	70.42		70.42	0.000001	0.07	1035.26	350.00	0.01
Arnese	43	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.80	64.04	70.35		70.35	0.000001	0.07	1009.76	350.00	0.01
Arnese	43	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.77	64.04	69.97		69.97	0.000001	0.07	878.25	348.09	0.01
Arnese	43	Max WS	Pro_II_TPCr_Tr30	32.03	64.04	68.61		68.61	0.000004	0.11	463.30	261.16	0.02
Arnese	42.7	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.55	63.90	70.42		70.42	0.000001	0.08	835.81	255.00	0.01
Arnese	42.7	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.80	63.90	70.35		70.35	0.000001	0.08	817.31	255.00	0.01
Arnese	42.7	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.77	63.90	69.97		69.97	0.000001	0.08	721.49	254.23	0.01
Arnese	42.7	Max WS	Pro_II_TPCr_Tr30	32.00	63.90	68.61		68.61	0.000006	0.13	399.03	219.11	0.02

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	42.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	63.80	70.40	66.00	70.44	0.000146	0.94	122.51	215.00	0.12
Arnese	42.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.80	63.80	70.33	66.00	70.37	0.000155	0.96	107.17	215.00	0.13
Arnese	42.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	63.80	69.96	65.90	70.02	0.000205	1.06	35.67	214.14	0.14
Arnese	42.4	Max WS	Pro_II_TPCr_Tr30	32.00	63.80	68.59	65.70	68.66	0.000377	1.19	26.90	186.20	0.19
Arnese	42.3			Inl Struct									
Arnese	42	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	63.65	65.96	65.65	66.38	0.006721	3.00	21.86	52.58	0.75
Arnese	42	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.80	63.65	65.91	65.65	66.34	0.007124	3.02	19.17	45.49	0.76
Arnese	42	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	63.65	65.73	65.51	66.18	0.007960	2.95	13.24	22.36	0.79
Arnese	42	Max WS	Pro_II_TPCr_Tr30	32.00	63.65	65.59		65.99	0.008004	2.80	11.44	8.81	0.78
Arnese	41	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	63.15	65.62		66.22	0.010381	3.45	14.07	9.40	0.90
Arnese	41	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.79	63.15	65.56		66.14	0.010277	3.39	13.52	9.23	0.89
Arnese	41	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	63.15	65.36		65.89	0.010171	3.21	11.75	8.63	0.88
Arnese	41	Max WS	Pro_II_TPCr_Tr30	32.00	63.15	65.20		65.68	0.010137	3.08	10.39	8.15	0.87
Arnese	40	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	62.90	65.33	65.25	65.94	0.010747	3.49	14.87	17.67	0.92
Arnese	40	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.79	62.90	65.27		65.89	0.011103	3.49	13.13	9.10	0.93
Arnese	40	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	62.90	65.07		65.63	0.011116	3.32	11.36	8.50	0.92
Arnese	40	Max WS	Pro_II_TPCr_Tr30	32.00	62.90	64.90		65.42	0.011161	3.19	10.03	8.01	0.91
Arnese	39	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	62.60	65.04		65.67	0.010874	3.51	13.82	9.32	0.92
Arnese	39	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.79	62.60	64.98		65.59	0.010807	3.45	13.26	9.14	0.92
Arnese	39	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	62.60	64.78		65.33	0.010796	3.29	11.49	8.54	0.91
Arnese	39	Max WS	Pro_II_TPCr_Tr30	32.00	62.60	64.62		65.13	0.010839	3.16	10.14	8.05	0.90
Arnese	38.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	62.35	64.83		65.43	0.010126	3.42	14.20	9.44	0.89
Arnese	38.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.79	62.35	64.77		65.35	0.009992	3.35	13.66	9.27	0.88
Arnese	38.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	62.35	64.58		65.09	0.009844	3.18	11.89	8.68	0.87
Arnese	38.2	Max WS	Pro_II_TPCr_Tr30	32.00	62.35	64.41		64.89	0.009814	3.04	10.52	8.19	0.86
Arnese	38.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	62.30	64.74		65.37	0.010960	3.52	13.78	9.31	0.92
Arnese	38.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.79	62.30	64.68		65.29	0.010821	3.45	13.26	9.14	0.92
Arnese	38.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	62.30	64.48		65.03	0.010727	3.28	11.52	8.55	0.90
Arnese	38.1	Max WS	Pro_II_TPCr_Tr30	32.00	62.30	64.32		64.83	0.010771	3.15	10.16	8.06	0.90
Arnese	37	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	62.00	64.58		65.10	0.008547	3.21	15.13	9.73	0.82
Arnese	37	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.79	62.00	64.53		65.03	0.008276	3.12	14.66	9.59	0.81
Arnese	37	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	62.00	64.34		64.78	0.007871	2.92	12.93	9.03	0.78
Arnese	37	Max WS	Pro_II_TPCr_Tr30	32.00	62.00	64.18		64.58	0.007685	2.78	11.53	8.55	0.76
Arnese	36	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr1000	48.55	61.85	64.55		65.00	0.006910	2.96	16.38	10.11	0.74
Arnese	36	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr500	45.79	61.85	64.51		64.93	0.006610	2.87	15.94	9.98	0.73
Arnese	36	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tpcr_Tr200	37.76	61.85	64.33		64.69	0.006126	2.66	14.20	9.44	0.69
Arnese	36	Max WS	Pro_II_TPCr_Tr30	32.00	61.85	64.17		64.50	0.005863	2.51	12.75	8.97	0.67

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	35	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.55	61.80	64.50		64.95	0.007015	2.98	16.29	10.09	0.75
Arnese	35	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.79	61.80	64.46		64.88	0.006664	2.88	15.89	9.97	0.73
Arnese	35	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	61.80	64.28		64.64	0.006106	2.66	14.22	9.45	0.69
Arnese	35	Max WS	Pro_II_TPCr_Tr30	32.00	61.80	64.13		64.45	0.005806	2.50	12.80	8.99	0.67
Arnese	34.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.55	61.72	64.43		64.87	0.006893	2.96	16.40	10.12	0.74
Arnese	34.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.79	61.72	64.39		64.81	0.006477	2.85	16.06	10.02	0.72
Arnese	34.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	61.72	64.23		64.58	0.005823	2.61	14.47	9.53	0.68
Arnese	34.2	Max WS	Pro_II_TPCr_Tr30	32.00	61.72	64.08		64.39	0.005472	2.45	13.09	9.08	0.65
Arnese	34.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.55	61.70	64.38		64.84	0.007176	3.01	16.15	10.05	0.76
Arnese	34.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.79	61.70	64.35		64.78	0.006708	2.89	15.85	9.96	0.73
Arnese	34.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	61.70	64.19		64.55	0.005981	2.64	14.33	9.48	0.68
Arnese	34.1	Max WS	Pro_II_TPCr_Tr30	32.00	61.70	64.05		64.36	0.005594	2.47	12.98	9.05	0.66
Arnese	33	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.54	61.60	64.16	63.95	64.60	0.007487	3.04	19.95	35.94	0.77
Arnese	33	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.79	61.60	64.12	63.88	64.55	0.007421	2.99	18.59	35.04	0.77
Arnese	33	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	61.60	63.98		64.39	0.007398	2.85	13.23	9.13	0.76
Arnese	33	Max WS	Pro_II_TPCr_Tr30	32.00	61.60	63.85		64.21	0.006709	2.64	12.13	8.76	0.72
Arnese	32	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.54	61.50	63.98	63.50	64.50	0.007646	3.28	19.08	40.25	0.80
Arnese	32	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.79	61.50	63.94	63.50	64.45	0.007572	3.22	17.62	36.88	0.79
Arnese	32	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	61.50	63.80	63.50	64.26	0.007496	3.02	13.35	19.65	0.77
Arnese	32	Max WS	Pro_II_TPCr_Tr30	32.00	61.50	63.66		64.07	0.007492	2.83	11.49	10.66	0.76
Arnese	31	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.53	60.85	63.55		63.69	0.002957	1.62	30.77	38.86	0.49
Arnese	31	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.78	60.85	63.50		63.64	0.003088	1.61	28.77	38.78	0.50
Arnese	31	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	60.85	63.31		63.44	0.003585	1.62	23.37	24.29	0.53
Arnese	31	Max WS	Pro_II_TPCr_Tr30	32.00	60.85	63.14		63.28	0.004090	1.64	19.50	21.80	0.55
Arnese	30	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.53	60.30	62.86		63.40	0.008756	3.24	14.99	9.69	0.83
Arnese	30	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	60.30	62.80		63.32	0.008756	3.19	14.35	9.49	0.83
Arnese	30	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	60.30	62.59		63.06	0.008706	3.03	12.45	8.87	0.82
Arnese	30	Max WS	Pro_II_TPCr_Tr30	32.00	60.30	62.42		62.85	0.008696	2.91	11.01	8.37	0.81
Arnese	29	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	59.80	62.37	62.15	62.89	0.008393	3.23	15.48	15.46	0.82
Arnese	29	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	59.80	62.30	62.08	62.82	0.008478	3.18	14.58	13.06	0.82
Arnese	29	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	59.80	62.10		62.56	0.008497	3.01	12.56	8.91	0.81
Arnese	29	Max WS	Pro_II_TPCr_Tr30	32.00	59.80	61.94		62.36	0.008440	2.88	11.13	8.41	0.80
Arnese	28	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	59.10	61.54		62.17	0.010900	3.51	13.81	9.32	0.92
Arnese	28	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	59.10	61.48		62.09	0.010749	3.45	13.29	9.15	0.91
Arnese	28	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	59.10	61.30		61.84	0.010297	3.23	11.69	8.61	0.89
Arnese	28	Max WS	Pro_II_TPCr_Tr30	32.00	59.10	61.15		61.63	0.010057	3.07	10.42	8.16	0.87

HEC-RAS River: Rio Amese Reach: Amese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Amese	27	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	58.95	61.24	61.28	62.02	0.014020	3.89	12.48	8.60	1.03
Amese	27	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	58.95	61.19	61.22	61.93	0.014026	3.82	11.99	8.60	1.03
Amese	27	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	58.95	61.01	61.03	61.67	0.013725	3.60	10.50	8.19	1.01
Amese	27	Max WS	Pro_II_TPCr_Tr30	32.00	58.95	60.86	60.86	61.46	0.013625	3.44	9.31	7.74	1.00
Amese	26	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	58.60	60.63	60.93	61.78	0.017056	4.76	10.29	8.53	1.33
Amese	26	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	58.60	60.56	60.87	61.70	0.017669	4.73	9.74	8.43	1.34
Amese	26	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	58.60	60.37	60.67	61.44	0.019214	4.57	8.26	7.32	1.37
Amese	26	Max WS	Pro_II_TPCr_Tr30	32.00	58.60	60.21	60.51	61.25	0.020862	4.52	7.08	6.82	1.42
Amese	25	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	58.20	60.43		61.03	0.007569	3.42	14.17	9.70	0.90
Amese	25	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	58.20	60.36		60.95	0.007674	3.39	13.50	9.49	0.91
Amese	25	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	58.20	60.17		60.70	0.007668	3.22	11.71	8.90	0.90
Amese	25	Max WS	Pro_II_TPCr_Tr30	32.00	58.20	59.99		60.49	0.008120	3.15	10.15	8.36	0.91
Amese	24	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	58.00	60.48		60.92	0.004575	2.93	16.68	10.40	0.71
Amese	24	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.76	58.00	60.41		60.83	0.004630	2.88	15.97	10.20	0.71
Amese	24	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	58.00	60.21		60.58	0.004765	2.71	13.95	9.63	0.72
Amese	24	Max WS	Pro_II_TPCr_Tr30	32.00	58.00	60.01		60.37	0.005077	2.65	12.07	9.02	0.73
Amese	23	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	57.80	60.56		60.84	0.003357	2.41	23.00	22.16	0.54
Amese	23	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	57.80	60.48		60.76	0.003537	2.41	21.21	21.43	0.55
Amese	23	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.75	57.80	60.24		60.51	0.003943	2.33	16.80	15.38	0.57
Amese	23	Max WS	Pro_II_TPCr_Tr30	32.00	57.80	60.04		60.30	0.004319	2.24	14.29	10.52	0.59
Amese	22	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.52	57.60	60.49		60.76	0.003423	2.30	21.12	11.10	0.53
Amese	22	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.77	57.60	60.42		60.68	0.003416	2.25	20.32	11.10	0.53
Amese	22	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.76	57.60	60.19		60.42	0.003353	2.12	17.85	10.77	0.52
Amese	22	Max WS	Pro_II_TPCr_Tr30	32.00	57.60	60.00		60.21	0.003315	2.02	15.85	10.20	0.52
Amese	21	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.51	57.06	59.96		60.46	0.005990	3.19	16.49	10.79	0.68
Amese	21	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.76	57.06	59.89		60.37	0.006005	3.13	15.73	10.36	0.68
Amese	21	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.75	57.06	59.69		60.10	0.005795	2.88	13.76	9.16	0.65
Amese	21	Max WS	Pro_II_TPCr_Tr30	32.00	57.06	59.52		59.88	0.005682	2.69	12.29	8.19	0.64
Amese	20	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.51	56.71	59.69		60.03	0.003472	2.68	20.38	12.54	0.55
Amese	20	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.76	56.71	59.61		59.95	0.003468	2.62	19.47	12.26	0.54
Amese	20	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.75	56.71	59.43		59.71	0.003220	2.39	17.23	11.55	0.52
Amese	20	Max WS	Pro_II_TPCr_Tr30	32.00	56.71	59.26		59.51	0.003092	2.22	15.37	10.93	0.50
Amese	19	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.51	57.00	59.19	59.43	60.29	0.019678	4.65	10.50	7.49	1.20
Amese	19	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.76	57.00	59.13	59.36	60.20	0.019977	4.58	10.02	7.25	1.20
Amese	19	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.75	57.00	58.91	59.13	59.90	0.021553	4.41	8.55	6.54	1.23
Amese	19	Max WS	Pro_II_TPCr_Tr30	31.99	57.00	58.73	58.96	59.68	0.023114	4.33	7.40	6.22	1.27
Amese	18.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.51	55.88	58.87		59.33	0.006457	3.02	16.05	7.09	0.64

HEC-RAS River: Rio Amese Reach: Amese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Amese	18.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.76	55.88	58.82		59.25	0.006110	2.92	15.69	7.04	0.62
Amese	18.2	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.75	55.88	58.63		58.98	0.005239	2.62	14.40	6.83	0.58
Amese	18.2	Max WS	Pro_II_TPCr_Tr30	31.99	55.88	58.44		58.75	0.004818	2.43	13.14	6.63	0.55
Amese	18.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.51	56.07	58.90		59.28	0.004896	2.71	17.91	8.54	0.60
Amese	18.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.76	56.07	58.85		59.20	0.004682	2.62	17.44	8.46	0.58
Amese	18.1	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.75	56.07	58.65		58.94	0.004184	2.39	15.78	8.16	0.55
Amese	18.1	Max WS	Pro_II_TPCr_Tr30	31.99	56.07	58.45		58.71	0.004013	2.25	14.20	7.87	0.54
Amese	17	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	48.51	55.69	58.58	58.46	59.17	0.008938	3.44	15.35	11.64	0.78
Amese	17	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	45.76	55.69	58.54		59.09	0.008663	3.35	14.79	11.62	0.76
Amese	17	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.75	55.69	58.34	58.00	58.84	0.008439	3.13	12.56	11.54	0.75
Amese	17	Max WS	Pro_II_TPCr_Tr30	31.99	55.69	58.17		58.62	0.008368	2.96	10.81	6.67	0.74
Amese	16.9			Lat Struct									
Amese	16.8			Lat Struct									
Amese	16	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	46.45	55.29	58.41		59.08	0.011495	3.62	12.82	6.51	0.82
Amese	16	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	44.27	55.29	58.36		59.00	0.011211	3.54	12.50	6.51	0.82
Amese	16	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.67	55.29	58.17		58.74	0.010754	3.34	11.28	6.34	0.80
Amese	16	Max WS	Pro_II_TPCr_Tr30	31.99	55.29	58.00		58.50	0.009983	3.12	10.24	6.08	0.77
Amese	15	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	46.33	55.18	58.28		58.96	0.010813	3.65	12.68	6.08	0.81
Amese	15	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	44.23	55.18	58.23		58.88	0.010446	3.57	12.40	6.02	0.79
Amese	15	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.67	55.18	58.06		58.62	0.009486	3.31	11.39	5.82	0.75
Amese	15	Max WS	Pro_II_TPCr_Tr30	31.99	55.18	57.92		58.38	0.008299	3.02	10.59	5.65	0.70
Amese	14	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	46.08	55.23	58.23		58.55	0.003782	2.53	19.55	13.17	0.54
Amese	14	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	44.09	55.23	58.20		58.51	0.003624	2.46	19.17	13.17	0.53
Amese	14	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.48	55.23	58.03		58.30	0.003424	2.30	17.06	11.80	0.51
Amese	14	Max WS	Pro_II_TPCr_Tr30	31.99	55.23	57.90		58.13	0.003102	2.11	15.57	10.69	0.49
Amese	13	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	43.90	54.76	57.63	57.62	58.36	0.011935	3.83	12.53	10.60	0.84
Amese	13	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	42.91	54.76	57.59	57.58	58.32	0.012313	3.85	12.06	10.14	0.86
Amese	13	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.67	54.76	57.34	57.30	58.12	0.014381	3.92	9.88	7.65	0.92
Amese	13	Max WS	Pro_II_TPCr_Tr30	31.99	54.76	57.08	57.04	57.85	0.016387	3.89	8.23	5.00	0.97
Amese	12	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	43.48	54.23	57.39		57.76	0.005376	2.72	17.10	16.21	0.58
Amese	12	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	42.76	54.23	57.35		57.73	0.005571	2.74	16.43	14.86	0.59
Amese	12	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.66	54.23	57.14		57.51	0.005903	2.68	14.06	8.43	0.60
Amese	12	Max WS	Pro_II_TPCr_Tr30	31.99	54.23	56.93		57.26	0.005713	2.55	12.56	6.58	0.59
Amese	11	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr1000	42.32	54.15	57.36		57.61	0.003221	2.25	21.67	25.38	0.51
Amese	11	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr500	42.45	54.15	57.29		57.57	0.003662	2.36	20.13	22.27	0.54
Amese	11	Max WS	PRO_II_Stalacio_08-2021_REV_03_Tpcr_Tr200	37.66	54.15	57.06		57.35	0.004384	2.42	16.22	12.77	0.58



HEC-RAS River: Rio Amese Reach: Amese Profile: Max WS (Continued)

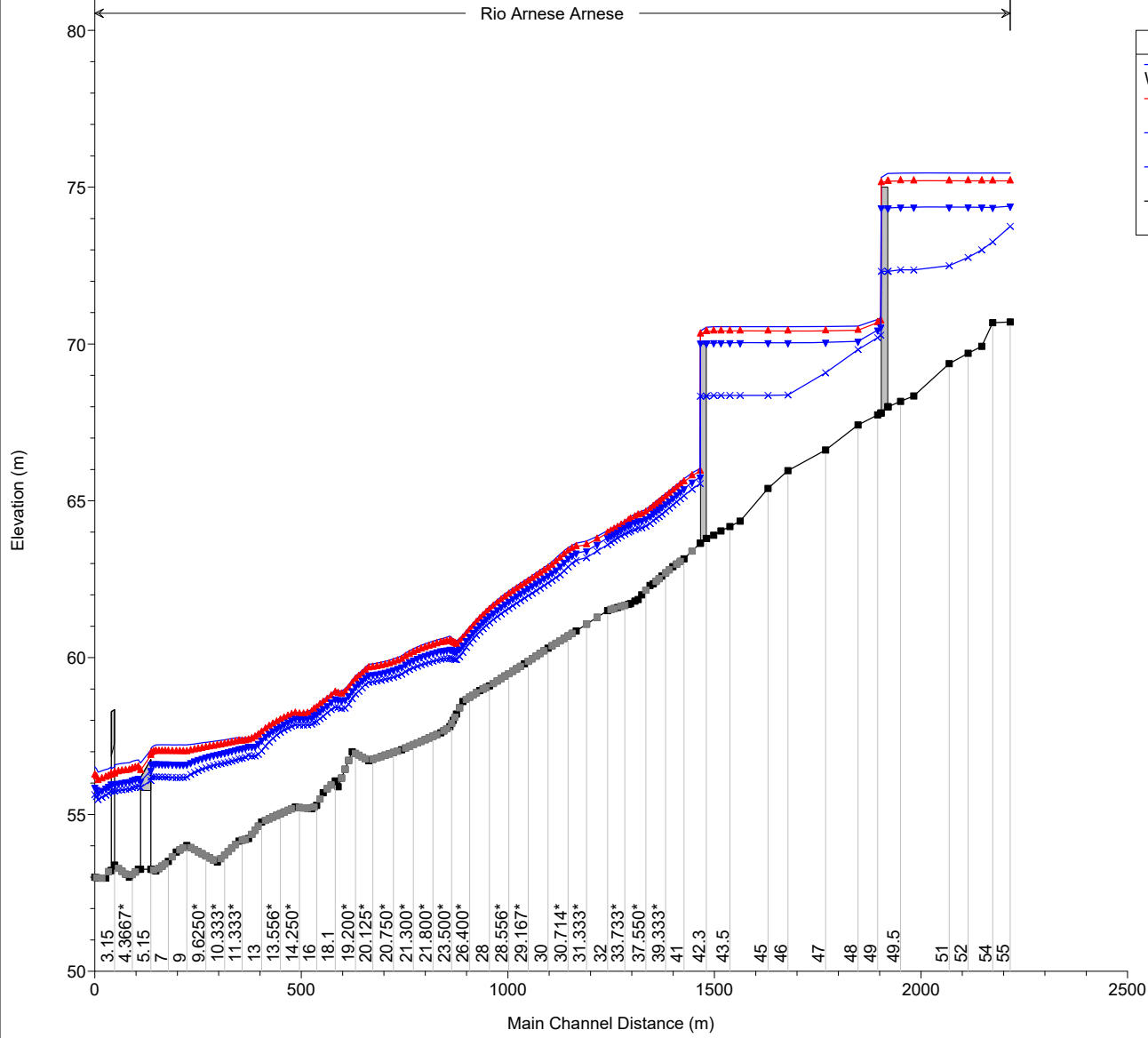
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Amese	11	Max WS	Pro_II_TPCr_Tr30	31.98	54.15	56.82		57.12	0.004985	2.39	13.51	10.30	0.61
Amese	10	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	42.27	53.48	57.22		57.44	0.002833	2.09	21.33	15.49	0.45
Amese	10	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	42.03	53.48	57.14		57.37	0.003156	2.17	20.12	14.14	0.47
Amese	10	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.65	53.48	56.88		57.13	0.003676	2.21	17.07	9.96	0.50
Amese	10	Max WS	Pro_II_TPCr_Tr30	31.98	53.48	56.64		56.87	0.003738	2.13	15.02	8.02	0.50
Amese	9	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	42.11	54.01	57.03		57.23	0.002994	2.00	21.08	12.48	0.49
Amese	9	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	41.91	54.01	56.90		57.14	0.003566	2.14	19.60	11.91	0.53
Amese	9	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.64	54.01	56.54		56.84	0.005031	2.41	15.64	10.17	0.62
Amese	9	Max WS	Pro_II_TPCr_Tr30	31.95	54.01	56.24		56.56	0.006332	2.52	12.69	9.15	0.68
Amese	8	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	42.30	53.80	57.03		57.17	0.001573	1.68	25.36	13.44	0.37
Amese	8	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	41.91	53.80	56.91		57.07	0.001853	1.76	23.85	12.50	0.40
Amese	8	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.64	53.80	56.55		56.73	0.002612	1.93	19.54	11.24	0.47
Amese	8	Max WS	Pro_II_TPCr_Tr30	31.95	53.80	56.23		56.43	0.003165	1.98	16.11	10.28	0.51
Amese	7	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	43.52	53.50	57.03		57.14	0.001020	1.49	30.24	17.28	0.31
Amese	7	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	42.60	53.50	56.92		57.04	0.001160	1.54	28.37	15.21	0.32
Amese	7	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.64	53.50	56.56		56.69	0.001619	1.62	23.21	12.79	0.37
Amese	7	Max WS	Pro_II_TPCr_Tr30	31.96	53.50	56.24		56.38	0.001906	1.64	19.45	11.21	0.40
Amese	6	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	44.14	53.20	57.04		57.11	0.000612	1.24	39.79	23.71	0.24
Amese	6	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	43.42	53.20	56.93		57.01	0.000689	1.28	37.26	22.98	0.25
Amese	6	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.64	53.20	56.57		56.65	0.000866	1.32	29.82	19.03	0.27
Amese	6	Max WS	Pro_II_TPCr_Tr30	31.96	53.20	56.25		56.33	0.000948	1.30	24.53	12.31	0.28
Amese	5.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	47.32	53.25	56.98	54.88	57.09	0.000779	1.50	31.52	9.69	0.27
Amese	5.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	44.08	53.25	56.89	54.81	57.00	0.000726	1.44	30.71	9.69	0.26
Amese	5.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.64	53.25	56.55	54.67	56.65	0.000726	1.37	27.38	9.57	0.26
Amese	5.2	Max WS	Pro_II_TPCr_Tr30	31.96	53.25	56.24	54.54	56.32	0.000721	1.31	24.43	9.39	0.26
Amese	5.15		Bridge										
Amese	5.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	46.21	53.25	56.43		56.63	0.001676	1.99	23.25	8.73	0.39
Amese	5.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	43.68	53.25	56.31		56.51	0.001701	1.97	22.21	8.72	0.39
Amese	5.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.61	53.25	56.12		56.29	0.001566	1.83	20.53	8.59	0.38
Amese	5.1	Max WS	Pro_II_TPCr_Tr30	31.92	53.25	55.92		56.07	0.001401	1.69	18.89	8.27	0.36
Amese	4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	46.12	53.00	56.32		56.59	0.003240	2.28	20.22	8.48	0.47
Amese	4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	43.65	53.00	56.20		56.46	0.003338	2.27	19.19	8.32	0.48
Amese	4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr200	37.59	53.00	56.02		56.25	0.003076	2.12	17.70	8.04	0.46
Amese	4	Max WS	Pro_II_TPCr_Tr30	31.90	53.00	55.83		56.03	0.002780	1.96	16.26	7.76	0.43
Amese	3.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr1000	44.13	53.38	56.24	55.16	56.47	0.002625	2.12	20.81	8.59	0.44
Amese	3.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tpcr_Tr500	43.26	53.38	56.11	55.14	56.35	0.002945	2.20	19.69	8.55	0.46

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	3.2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr200	37.56	53.38	55.93	55.01	56.15	0.002779	2.07	18.18	8.49	0.45
Arnese	3.2	Max WS	Pro_II_TPCr_Tr30	31.85	53.38	55.75	54.86	55.94	0.002545	1.91	16.69	8.43	0.43
Arnese	3.15		Bridge										
Arnese	3.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr1000	43.82	53.21	56.20		56.42	0.002755	2.09	20.99	8.51	0.42
Arnese	3.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr500	43.14	53.21	56.08		56.32	0.003042	2.15	20.04	8.47	0.45
Arnese	3.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr200	37.55	53.21	55.94		56.14	0.002763	2.00	18.80	8.43	0.43
Arnese	3.1	Max WS	Pro_II_TPCr_Tr30	31.86	53.21	55.76		55.93	0.002525	1.84	17.29	8.38	0.41
Arnese	2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr1000	39.02	52.97	56.10		56.33	0.003326	2.12	18.41	9.86	0.50
Arnese	2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr500	41.82	52.97	55.95		56.26	0.004829	2.47	16.93	9.64	0.60
Arnese	2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr200	37.49	52.97	55.80		56.10	0.004979	2.42	15.49	9.42	0.60
Arnese	2	Max WS	Pro_II_TPCr_Tr30	31.73	52.97	55.62		55.89	0.004902	2.29	13.85	9.17	0.60
Arnese	1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr1000	38.41	52.97	56.02		56.26	0.003665	2.18	17.58	9.74	0.52
Arnese	1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr500	36.86	52.97	55.84		56.11	0.004525	2.33	15.84	9.47	0.57
Arnese	1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr200	37.14	52.97	55.64		56.00	0.006446	2.64	14.05	9.20	0.68
Arnese	1	Max WS	Pro_II_TPCr_Tr30	31.26	52.97	55.47		55.79	0.006378	2.51	12.47	8.85	0.67
Arnese	0.01	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr1000	39.59	53.00	56.16		56.24	0.000949	1.23	32.13	17.16	0.29
Arnese	0.01	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr500	40.51	53.00	56.00		56.10	0.001294	1.38	29.34	16.82	0.33
Arnese	0.01	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tpсr_Tr200	37.46	53.00	55.83		55.93	0.001479	1.41	26.48	16.31	0.35
Arnese	0.01	Max WS	Pro_II_TPCr_Tr30	31.61	53.00	55.63		55.73	0.001505	1.35	23.36	15.74	0.35

**Rio Arnese - Verifiche idrauliche moto vario stato di progetto**

**Tr=1000, 500, 200 e Tr=30 anni – Tp 3 ore**



Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	x
WS Max WS - Pro_II_TP3h_TR30	■
Ground	■

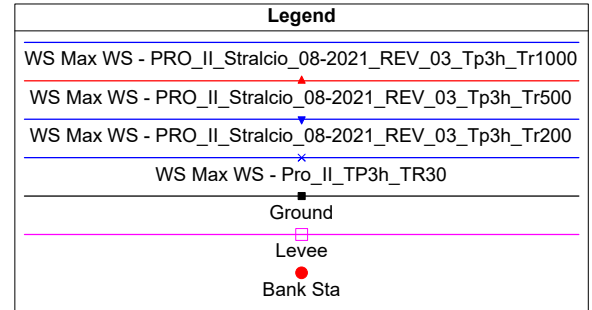
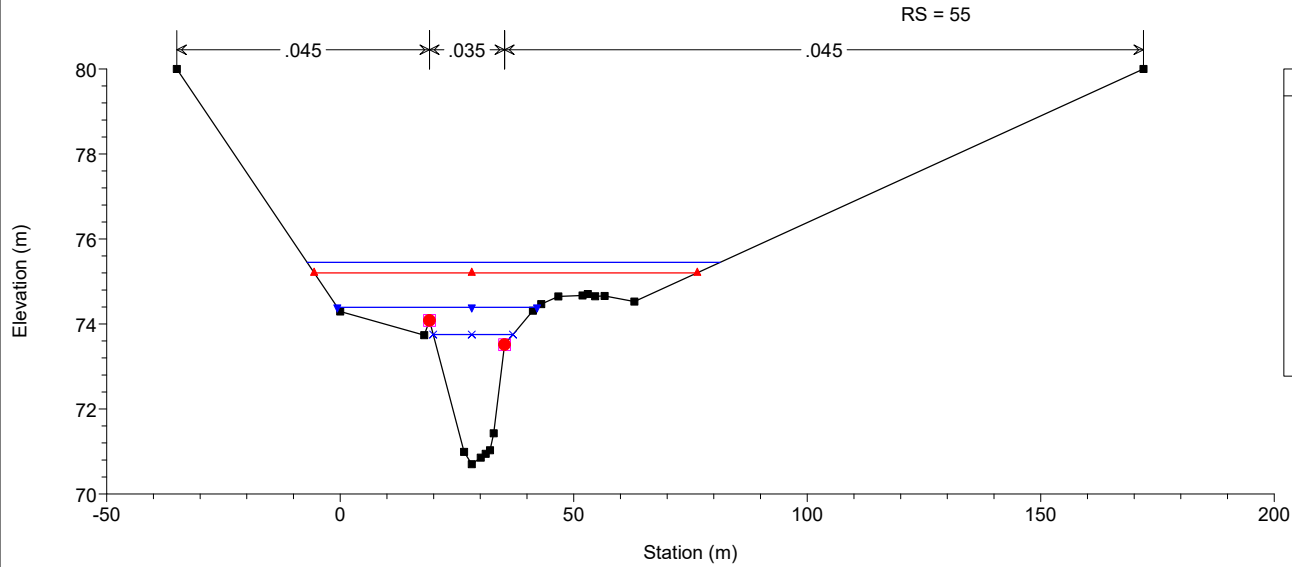
Rio Arnese Arnese

Elevation (m)

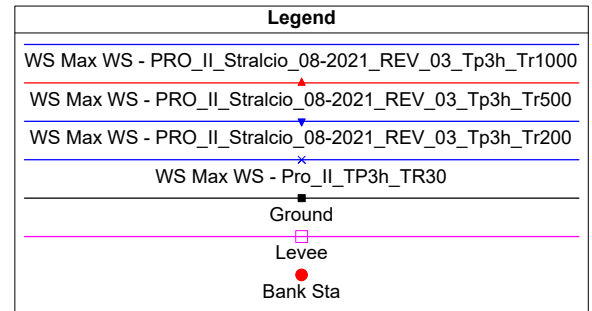
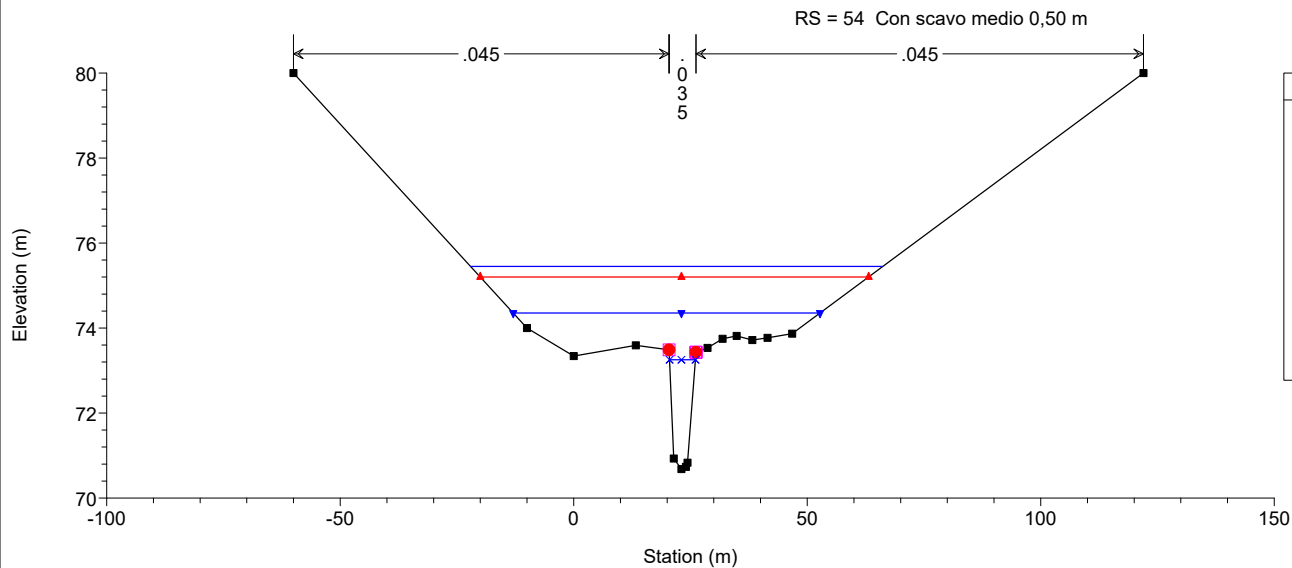
Main Channel Distance (m)

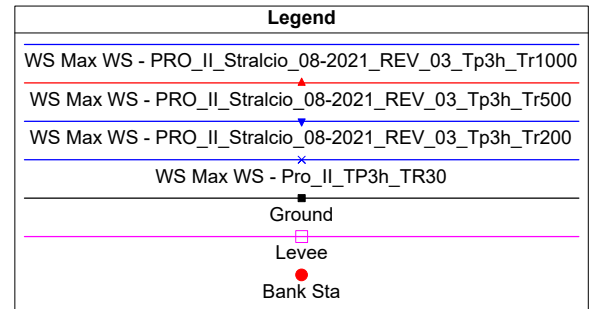
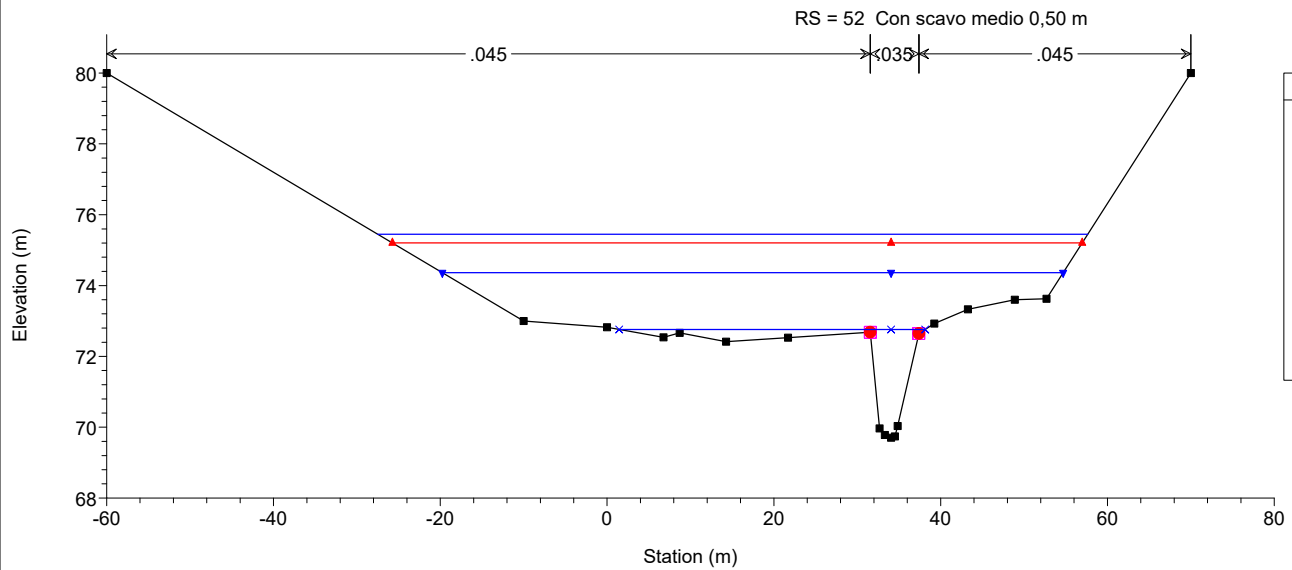
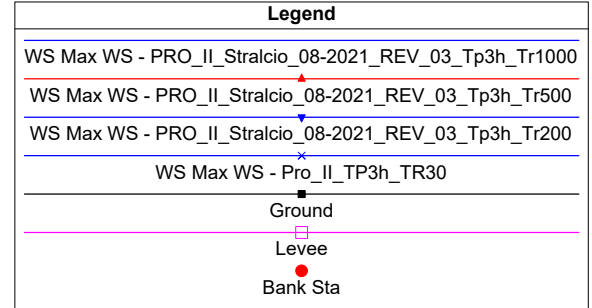
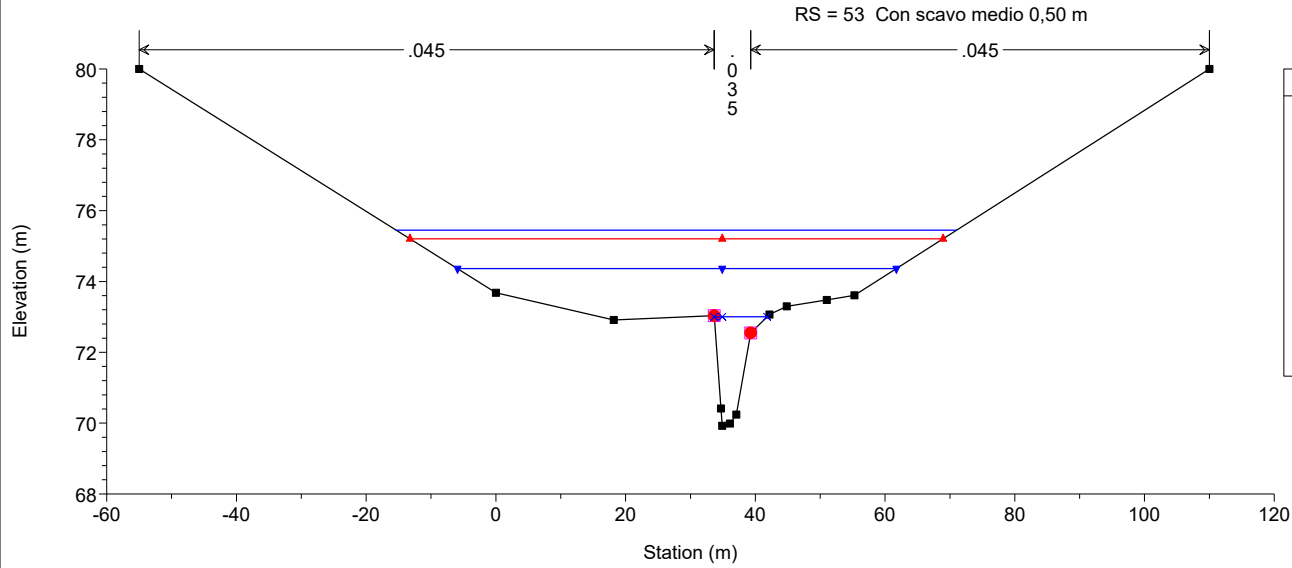
- 3.15
- 4.3667\*
- 5.15
- 7
- 9
- 9.6250\*
- 10.333\*
- 11.333\*
- 13
- 13.556\*
- 14.250\*
- 16
- 18.1
- 19.200\*
- 20.125\*
- 20.750\*
- 21.300\*
- 21.800\*
- 23.500\*
- 26.400\*
- 28
- 28.556\*
- 29.167\*
- 30
- 30.714\*
- 31.333\*
- 32
- 33.733\*
- 37.550\*
- 39.333\*
- 41
- 42.3
- 43.5
- 45
- 46
- 47
- 48
- 49
- 49.5
- 51
- 52
- 54
- 55

RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

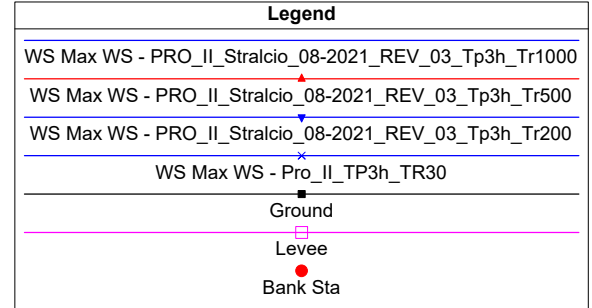
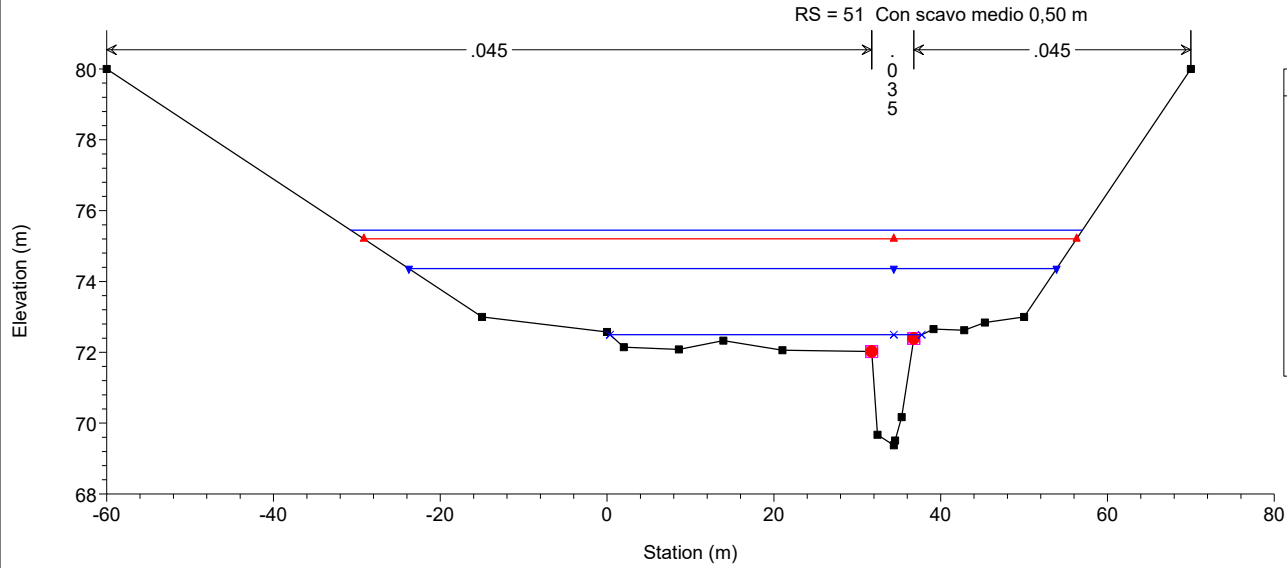


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

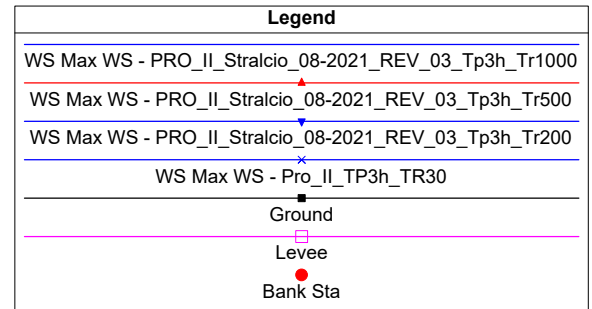
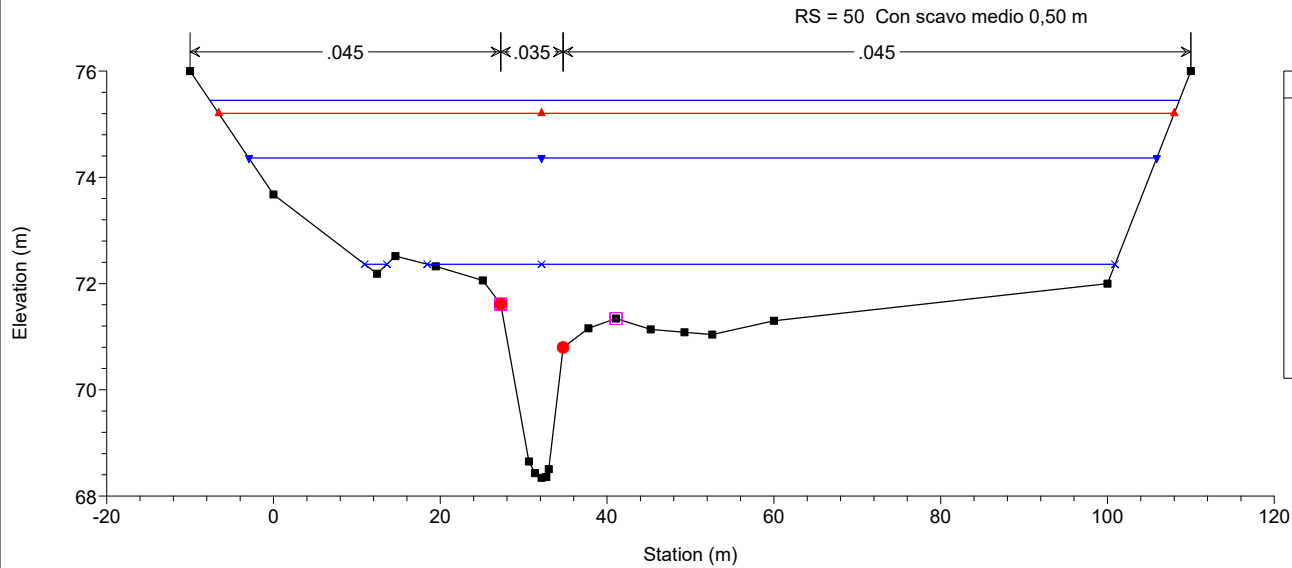




RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

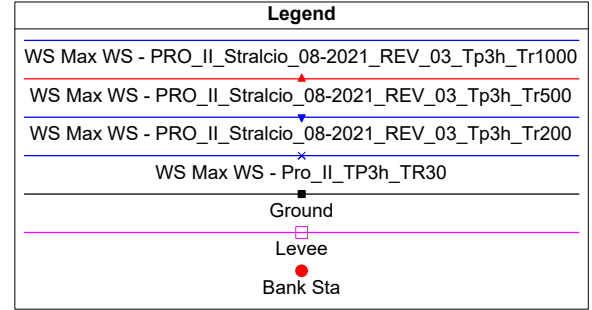
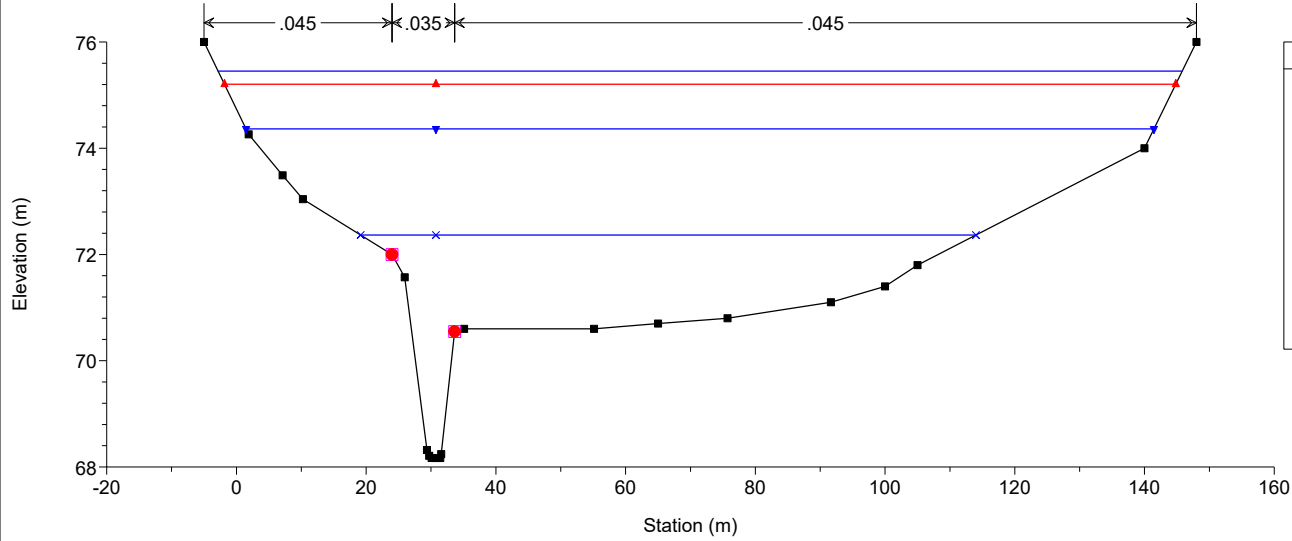


RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



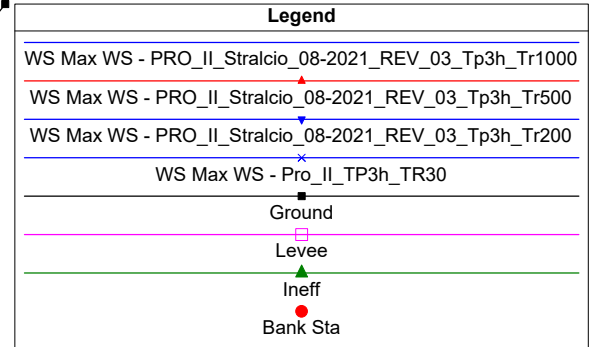
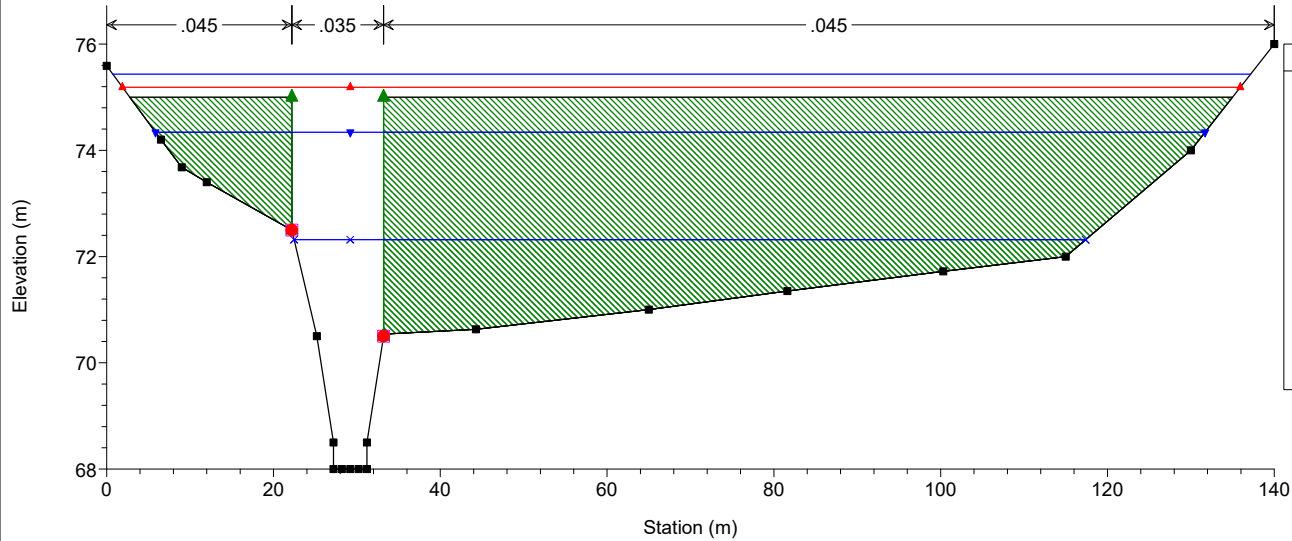
RioPietrosio Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 49.5 Ausiliaria cassa monte



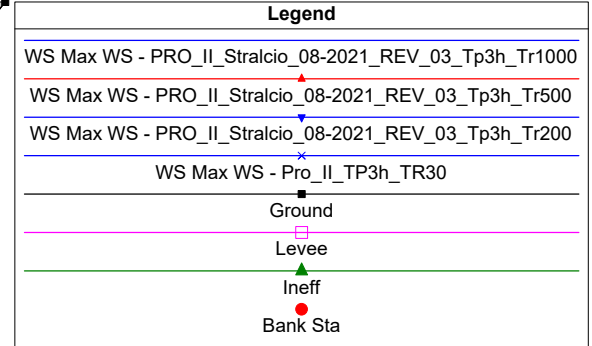
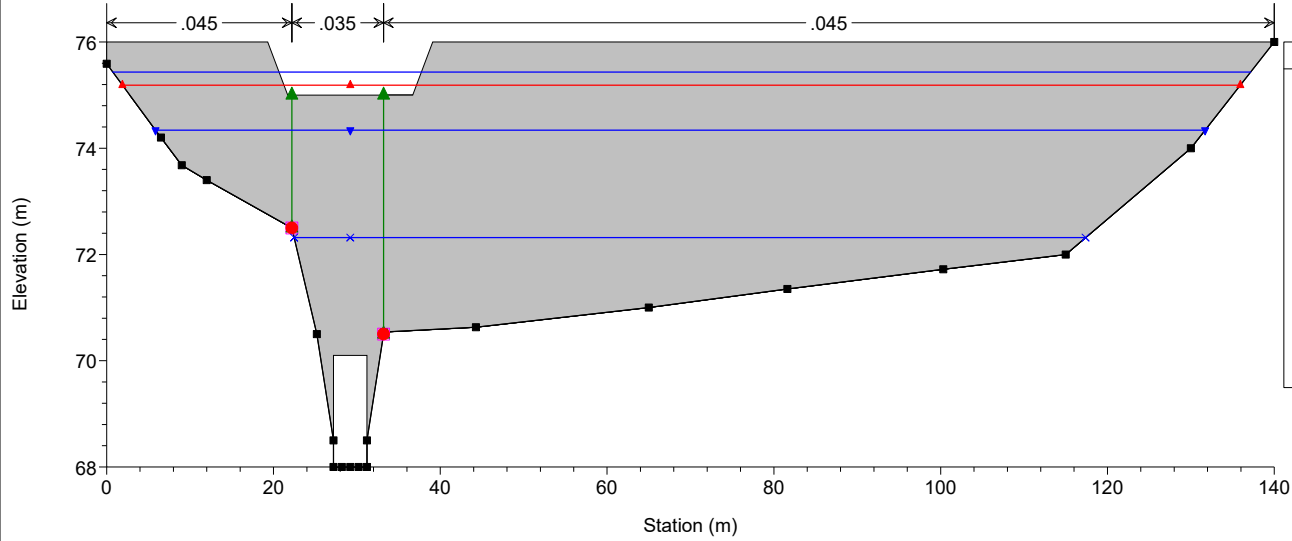
RioPietrosio Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 49.4 Ausiliaria monte Bocca Tarata cassa monte

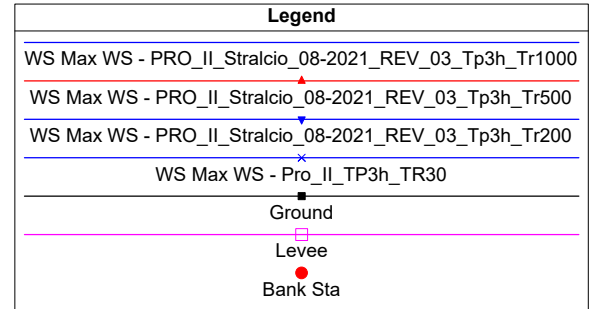
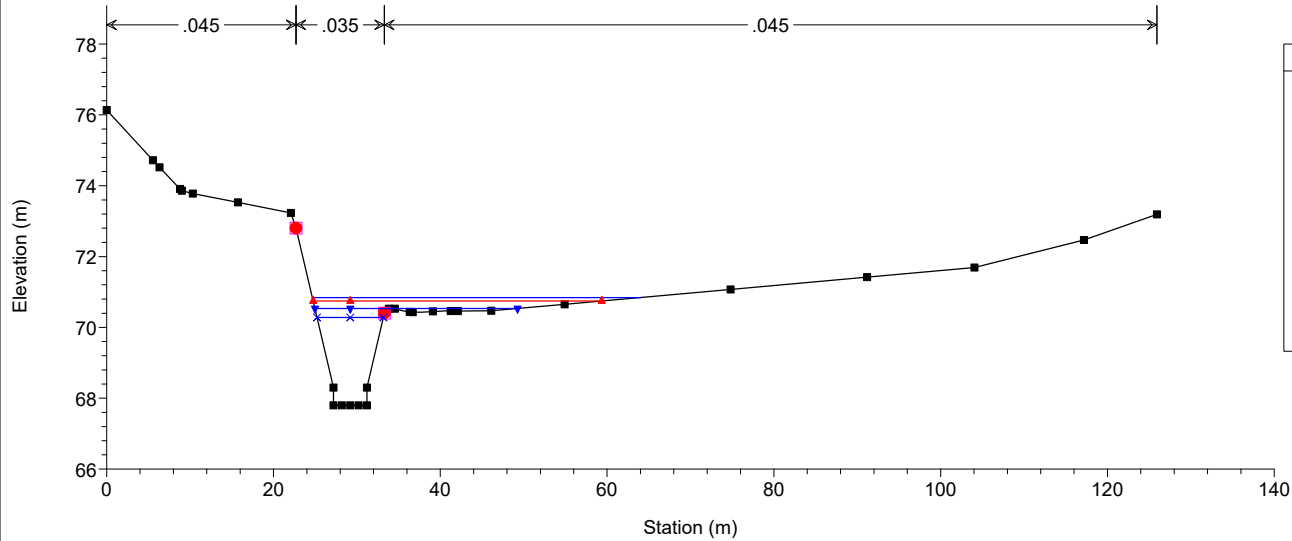


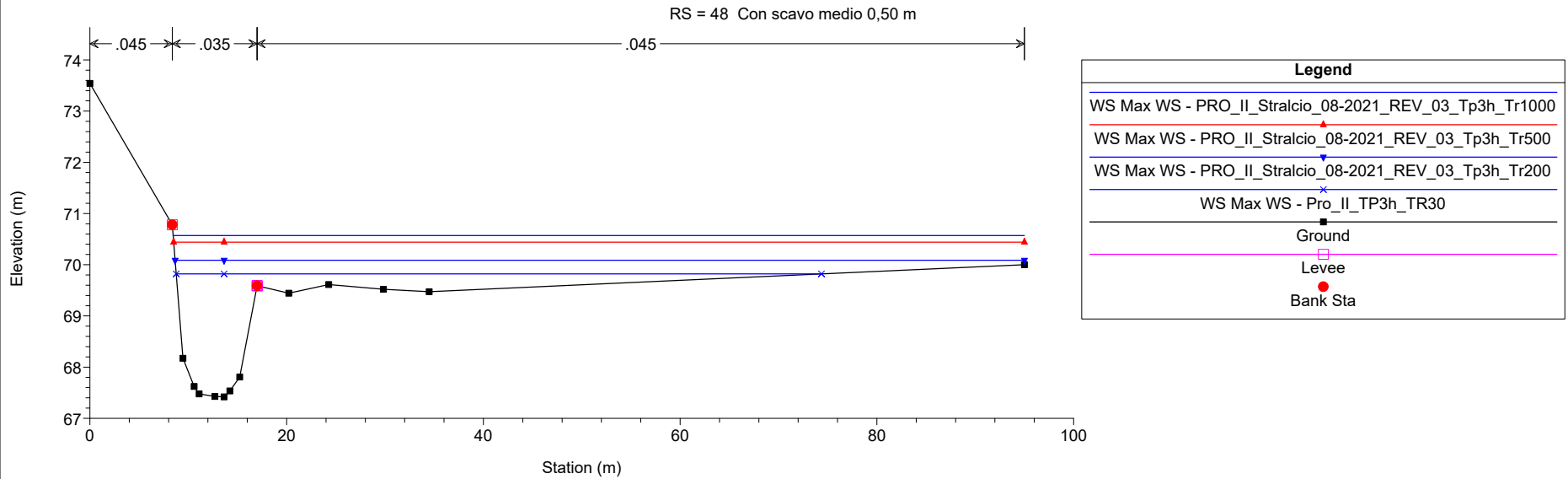
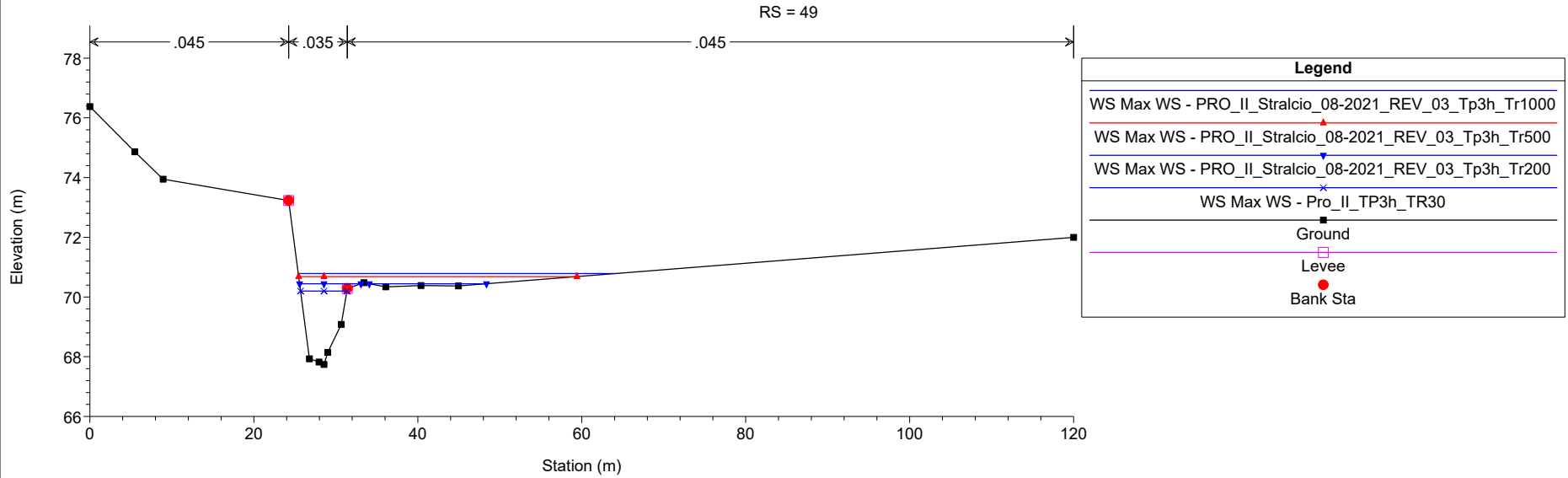


RS = 49.25 IS Bocca tarata monte rio Arnese

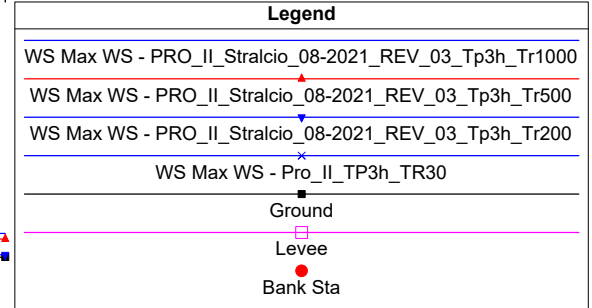
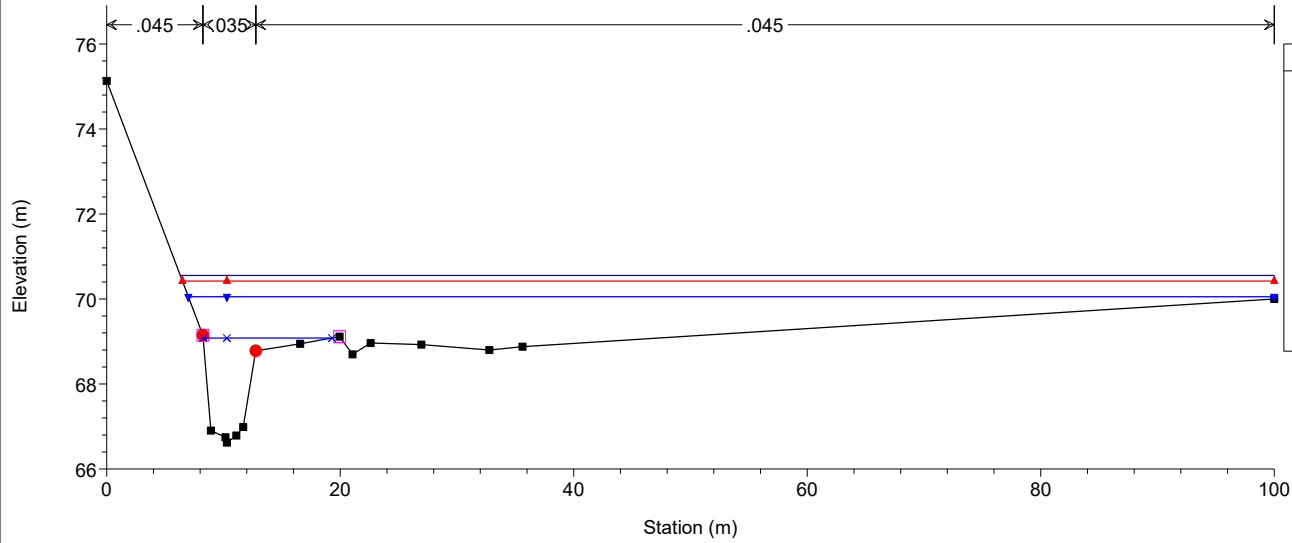


RS = 49.1 Ausiliaria valle Bocca Tarata cassa monte

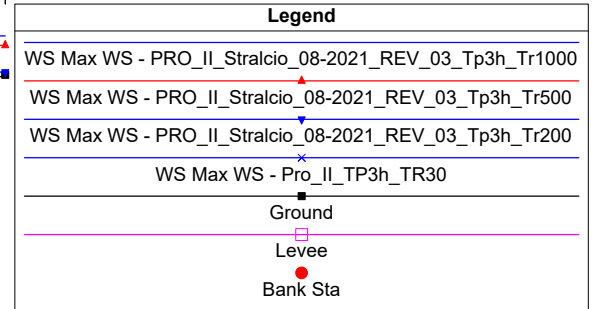
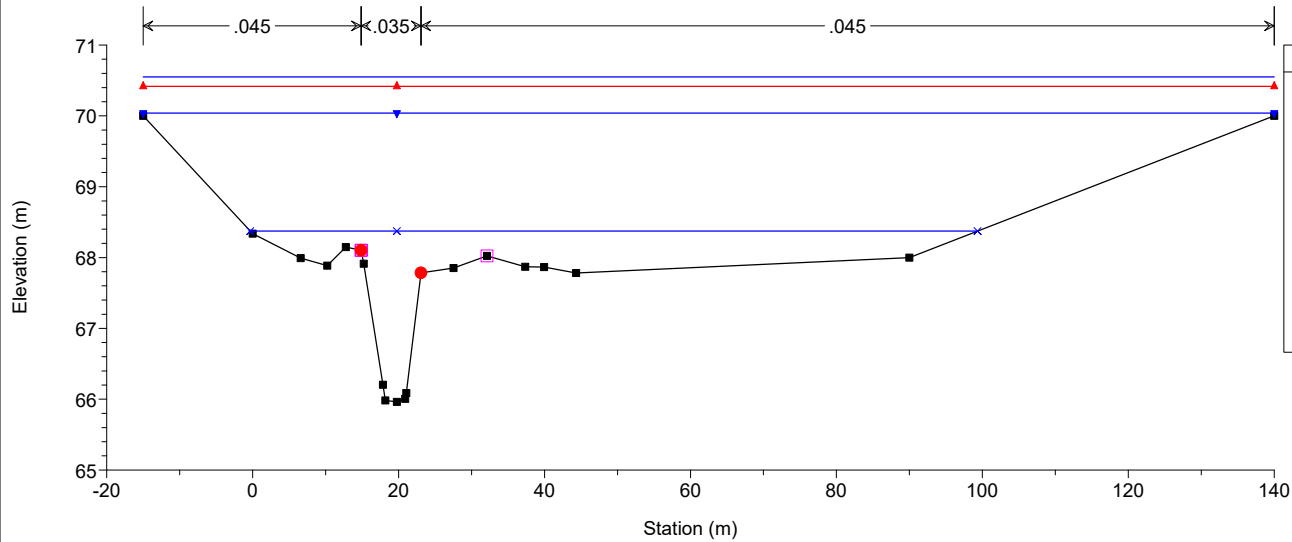




RS = 47 Con scavo medio 0,50 m

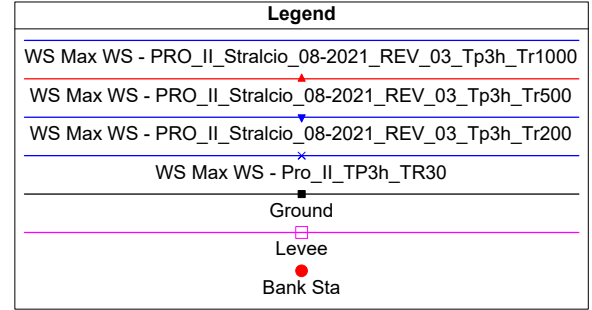
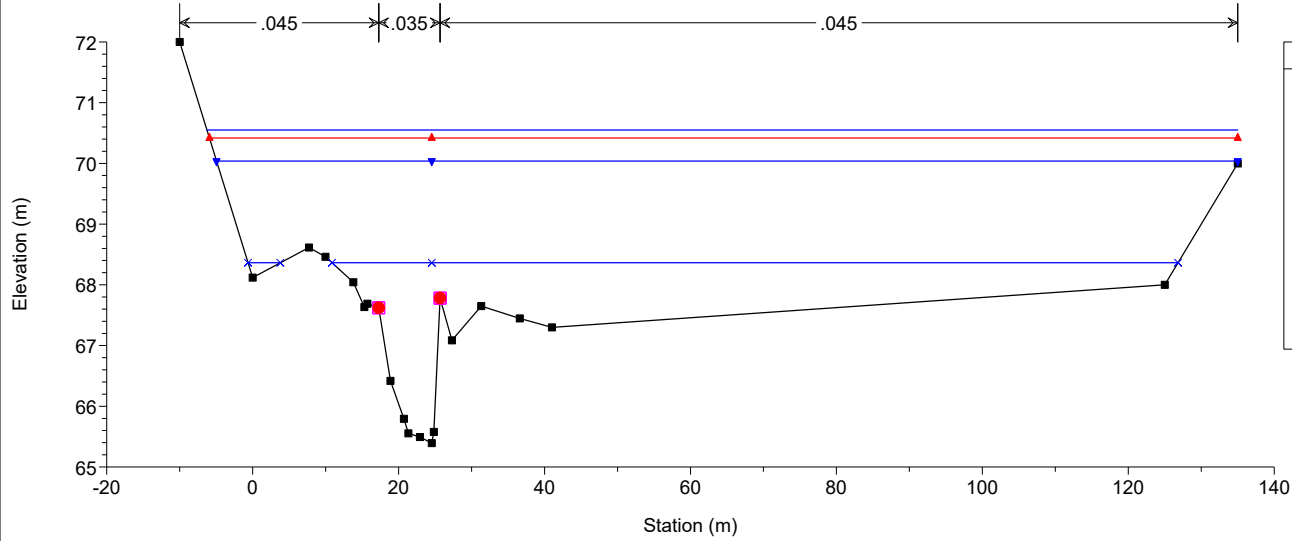


RS = 46 Con scavo medio 0,50 m



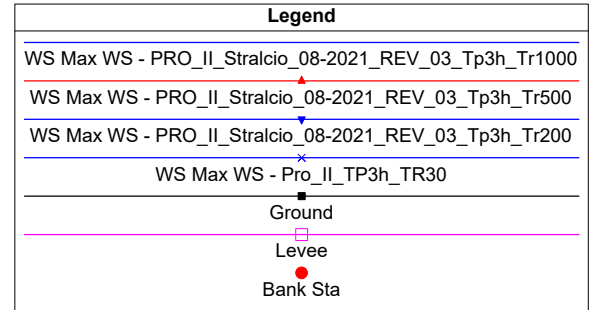
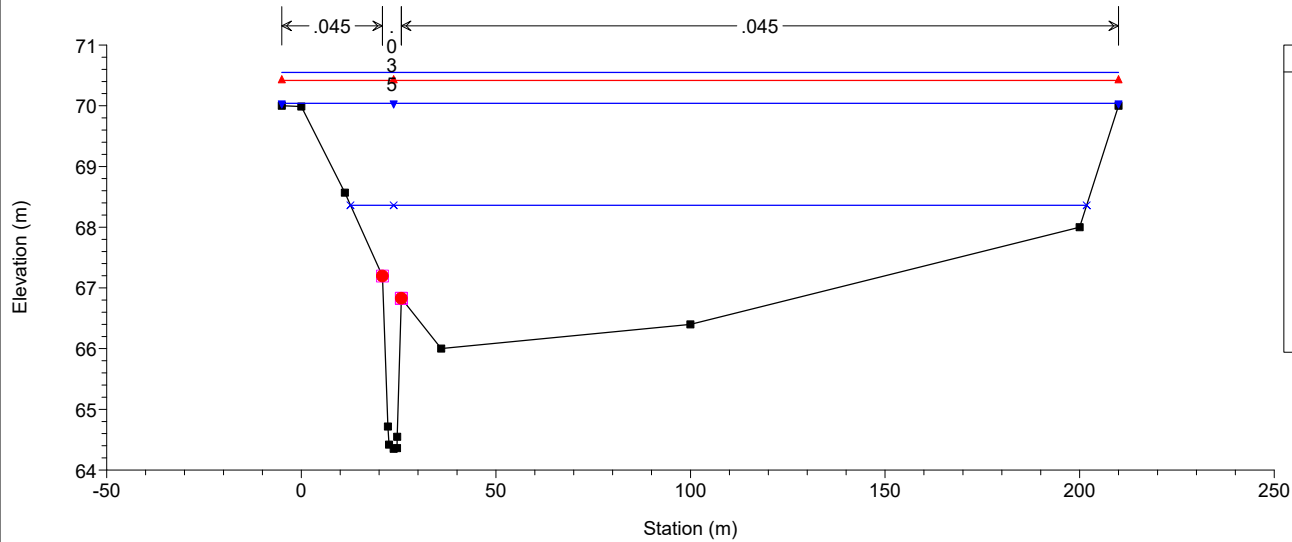
RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 45 Con scavo medio 0,50 m



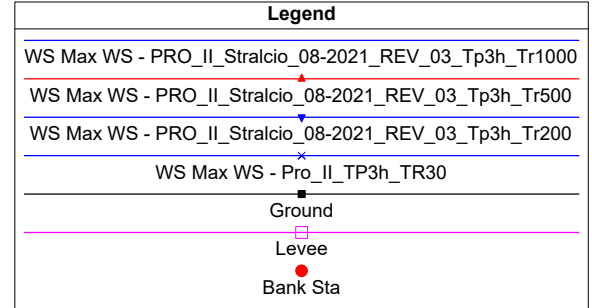
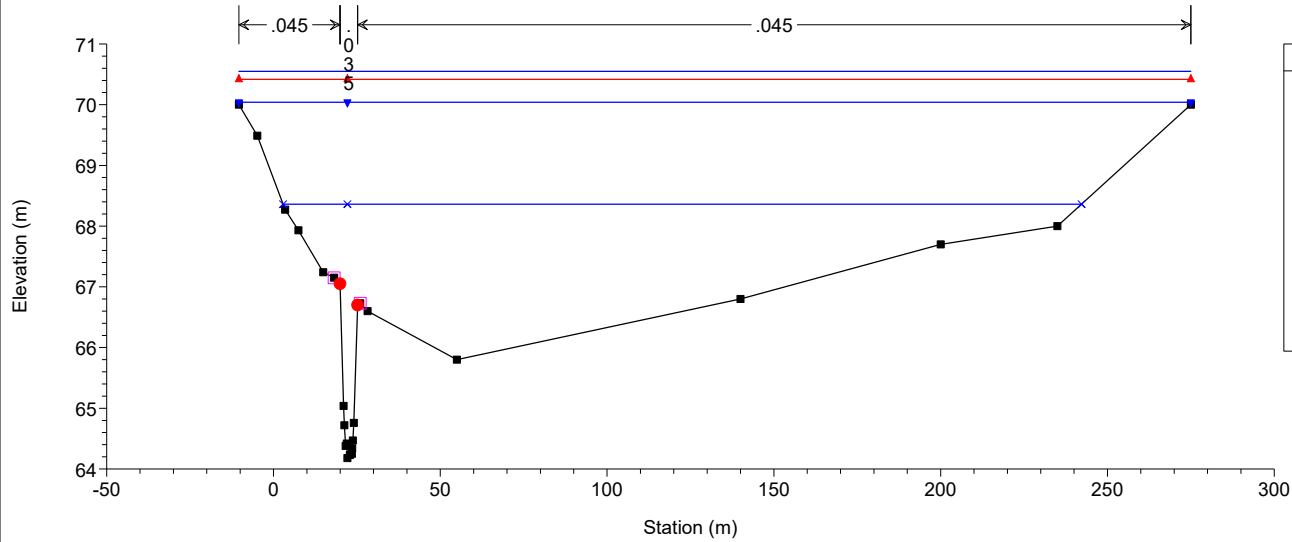
RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 44 Con scavo medio 0,50 m



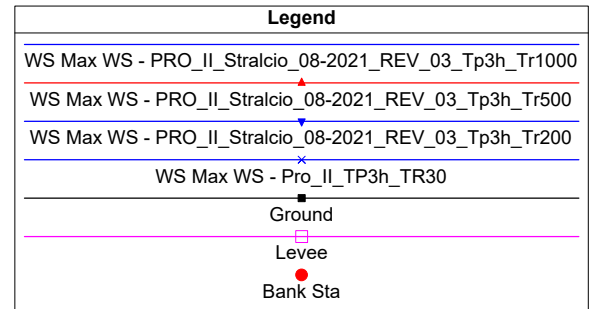
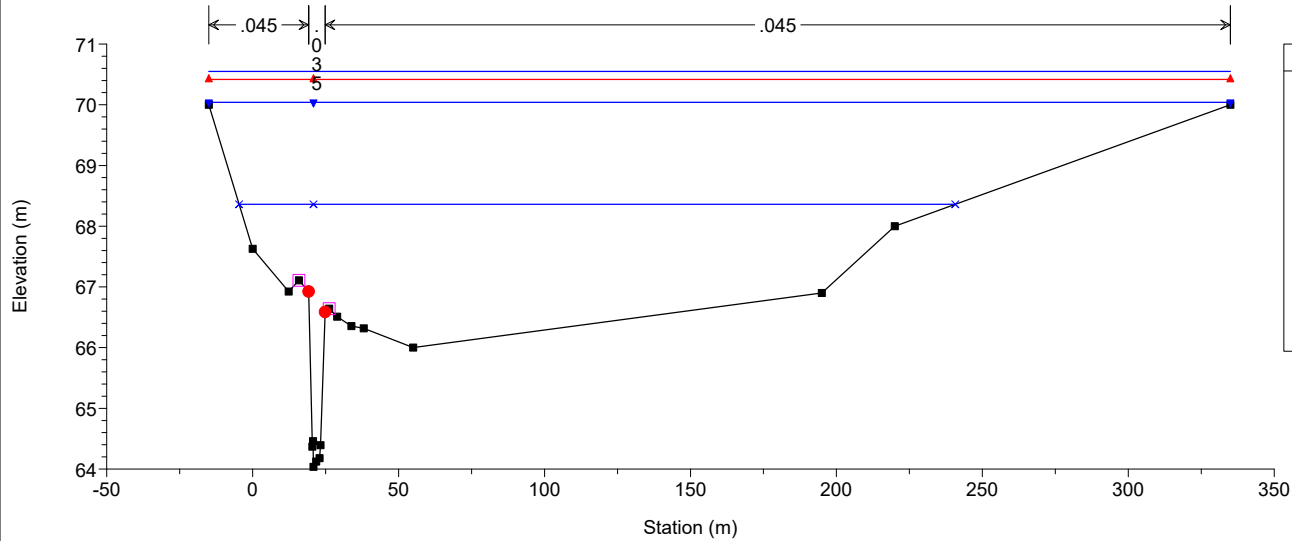
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 43.5 Ausiliaria cassa



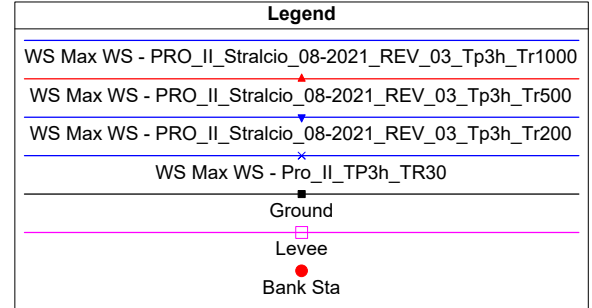
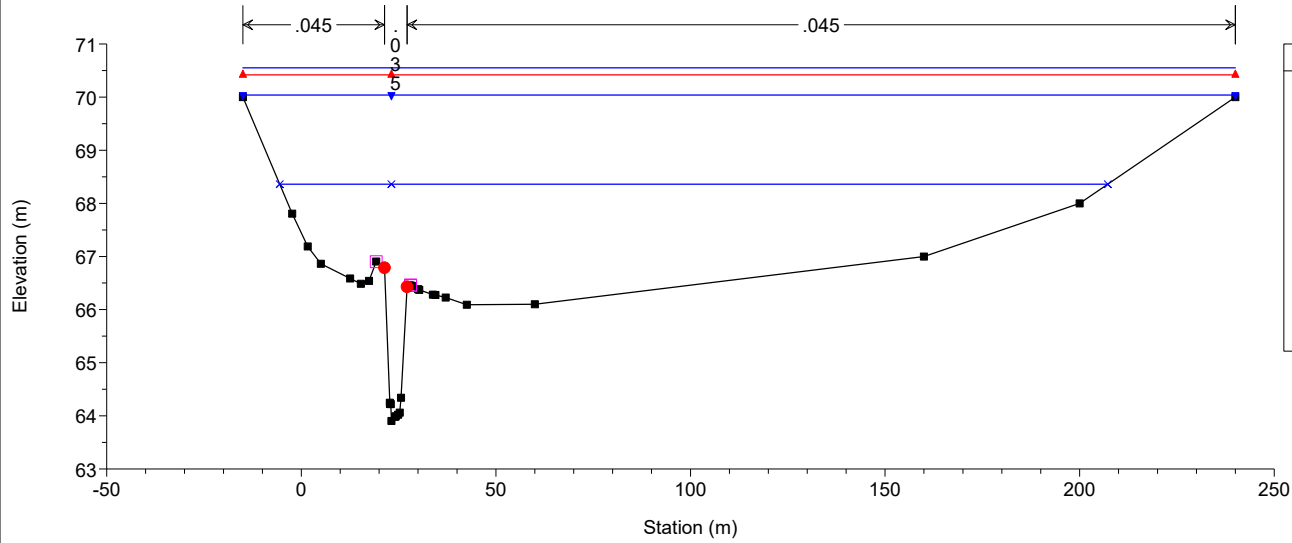
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 43 Con scavo medio 0,50 m



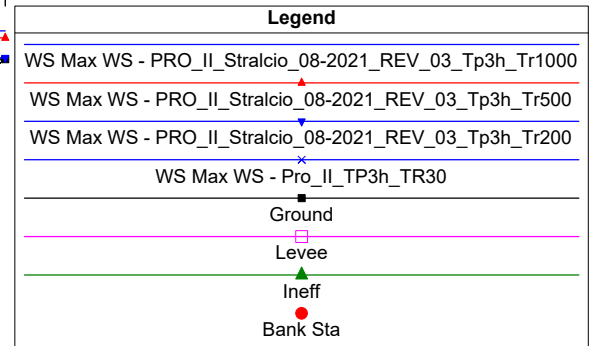
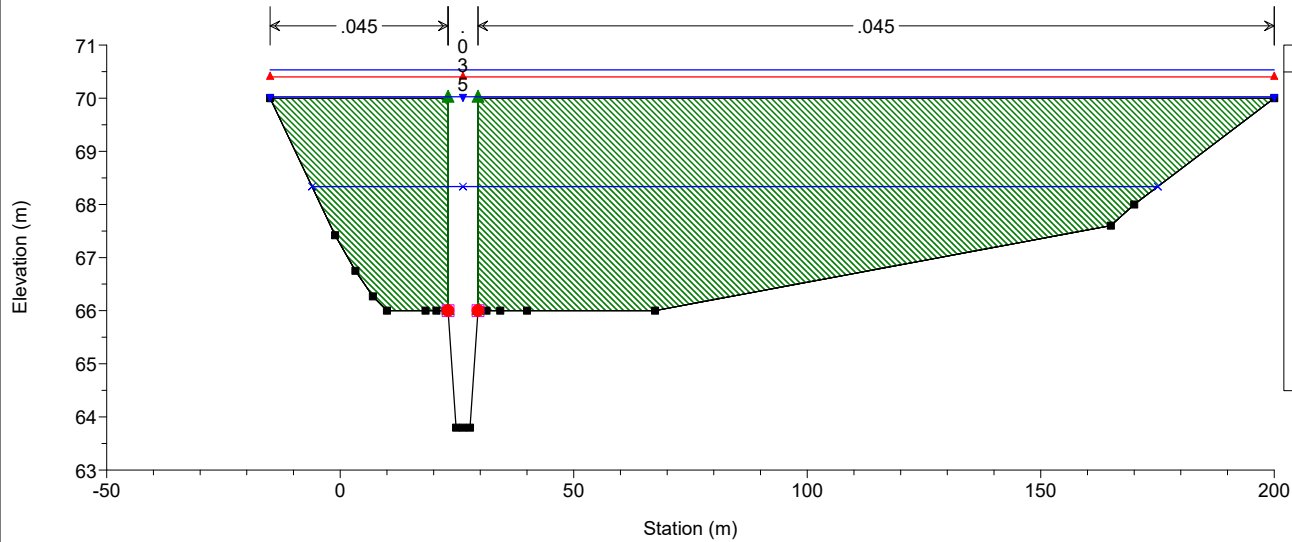
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 42.7 Ausiliaria cassa



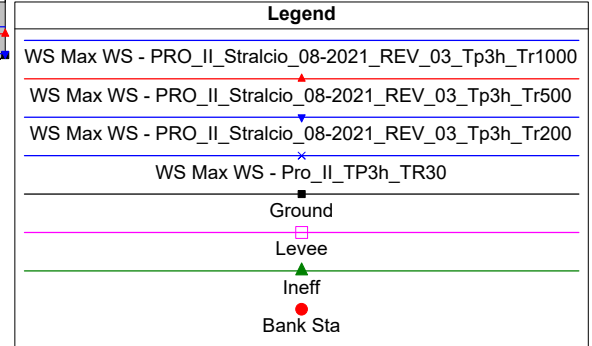
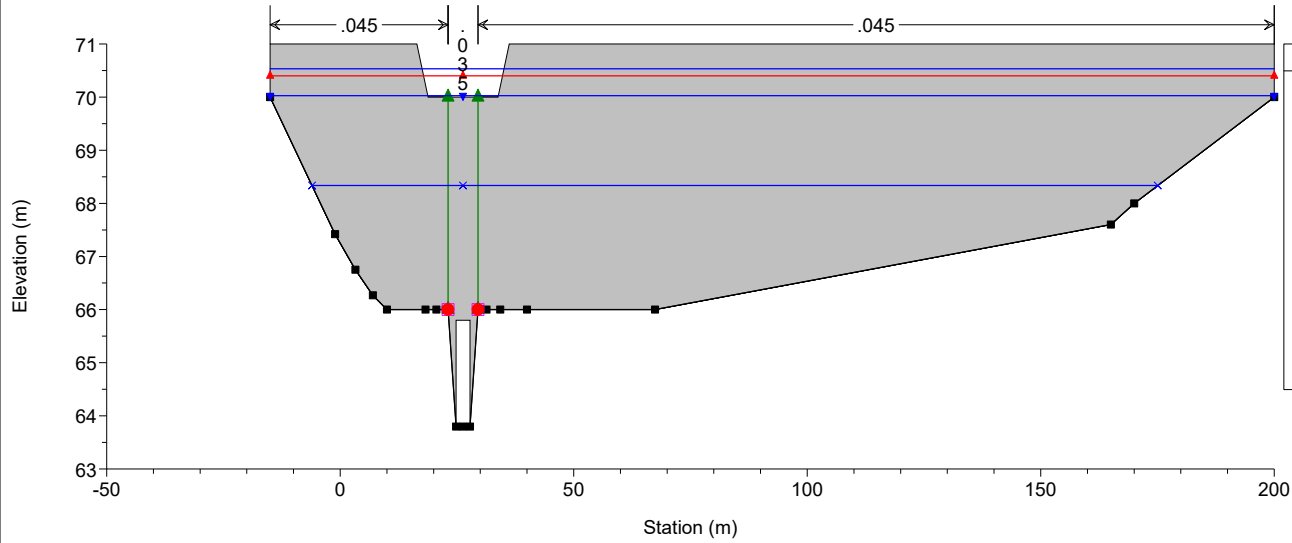
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 42.4 Ausiliaria monte Bocca Tarata cassa valle



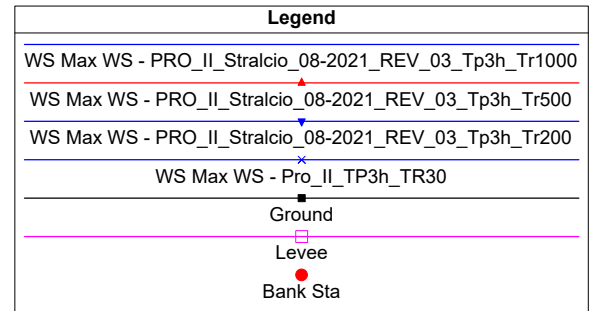
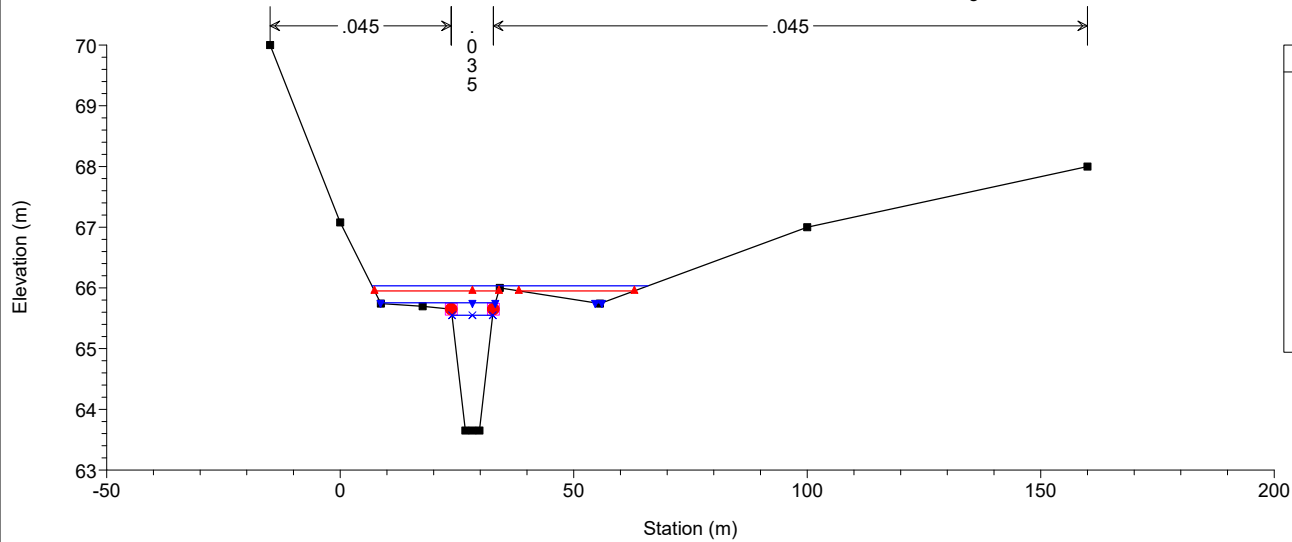
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

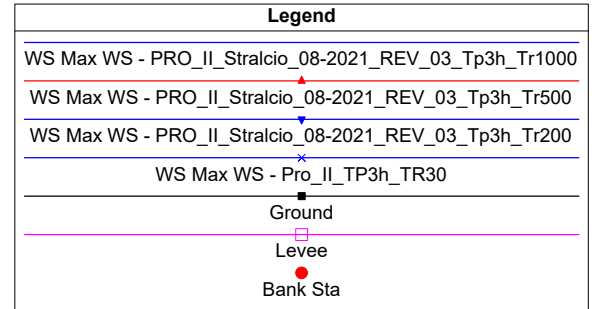
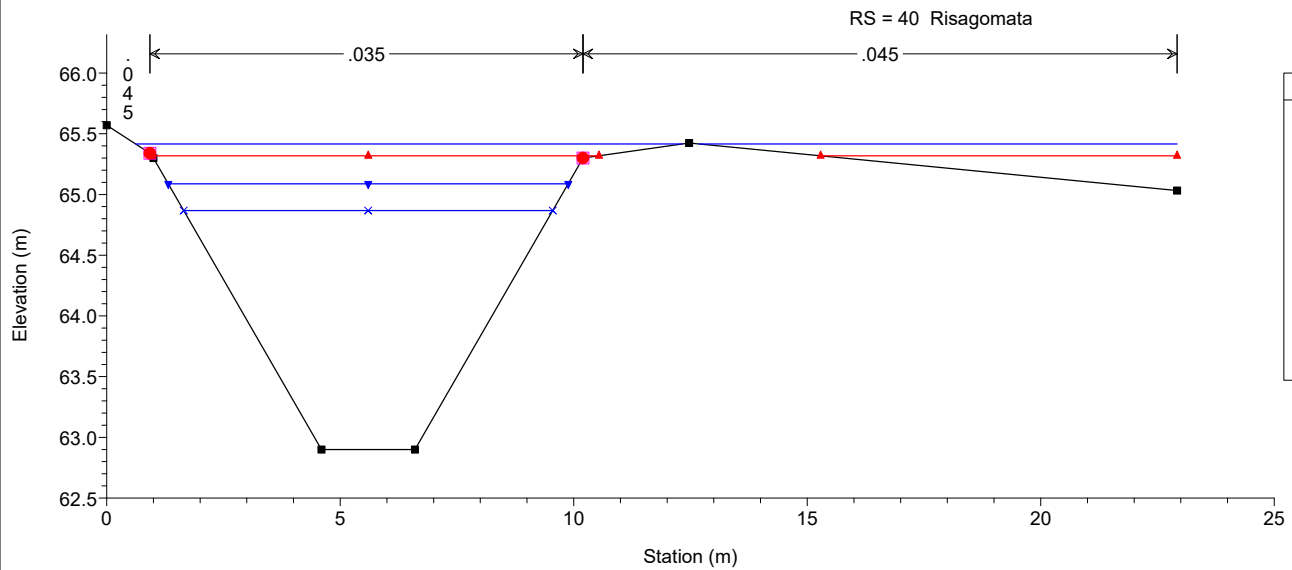
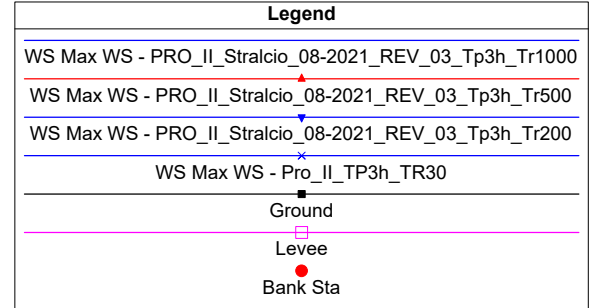
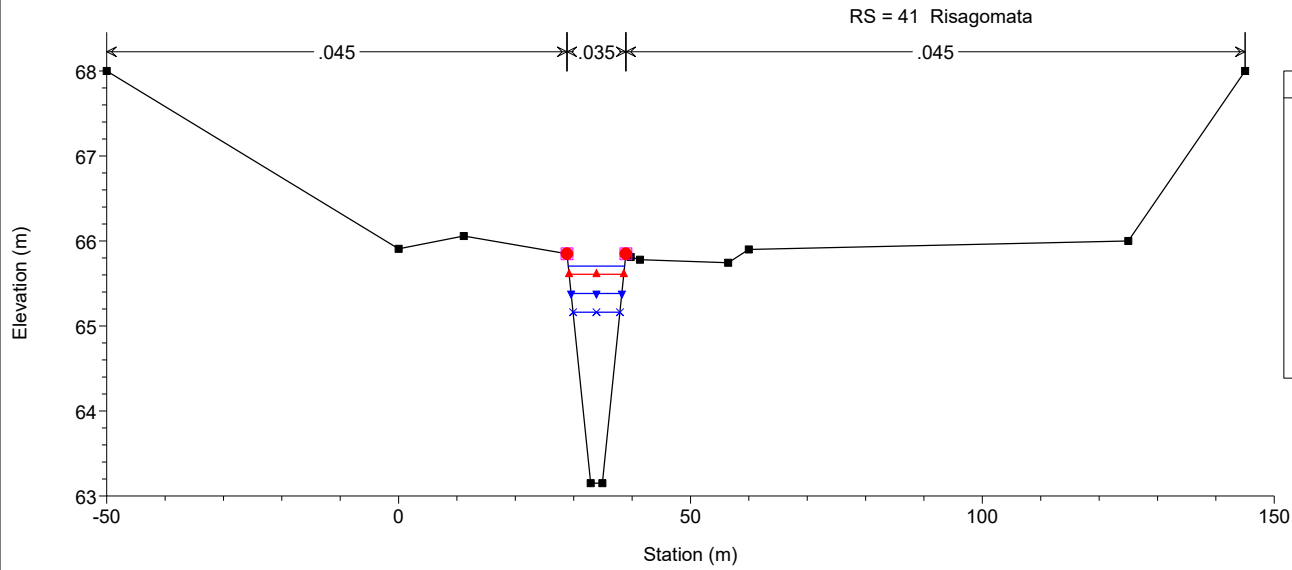
RS = 42.3 IS Bocca tarata valle rio Arnese



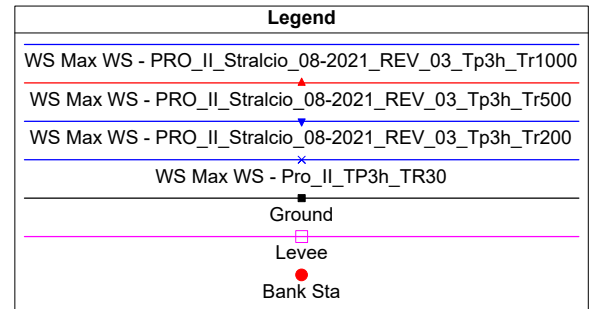
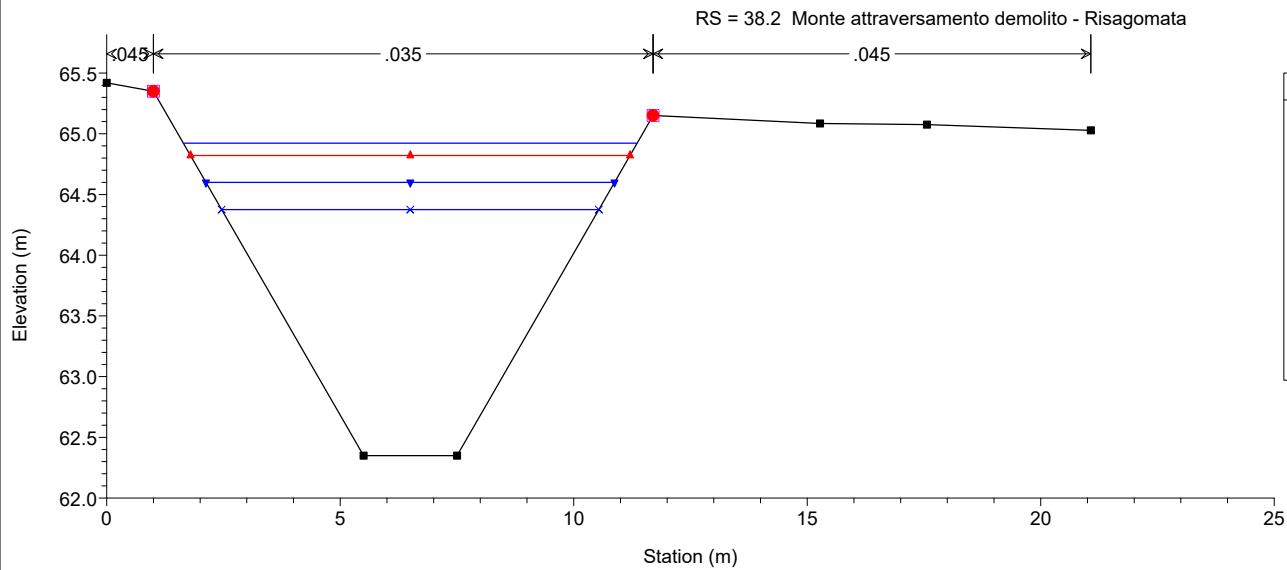
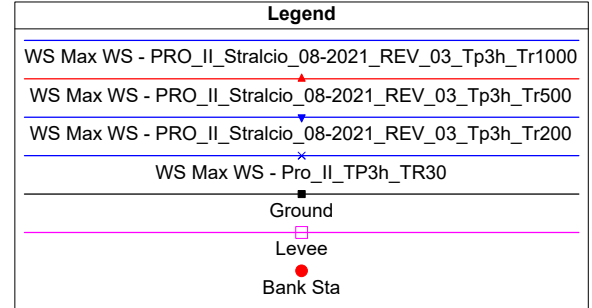
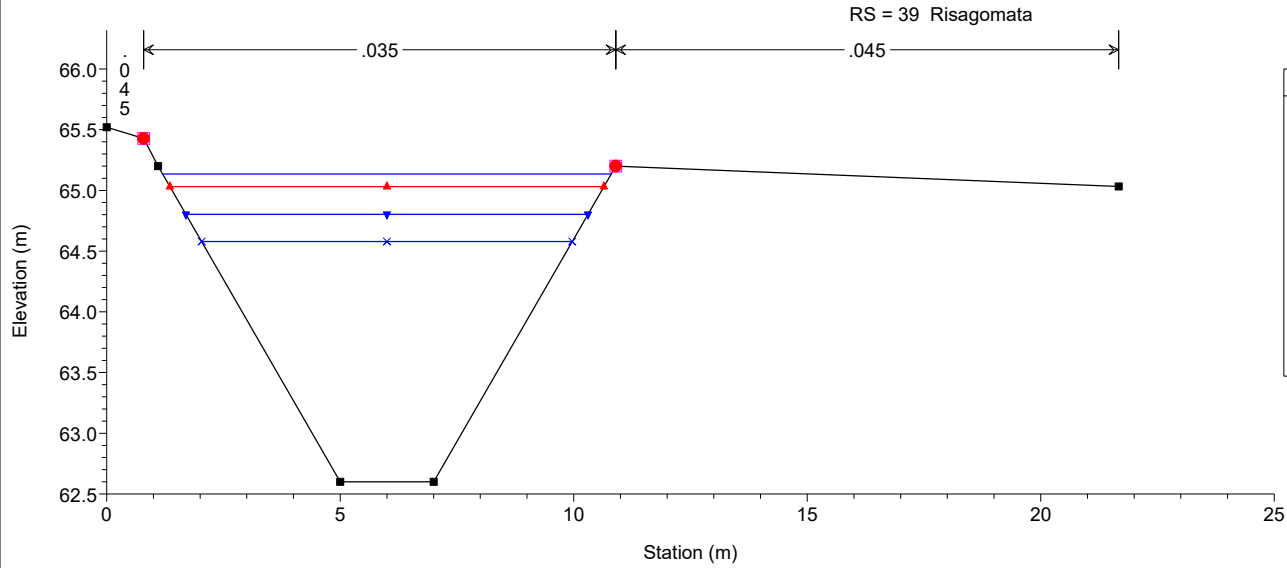
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 42 Risagomata

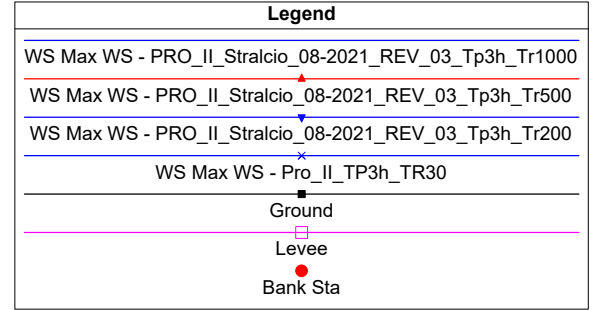
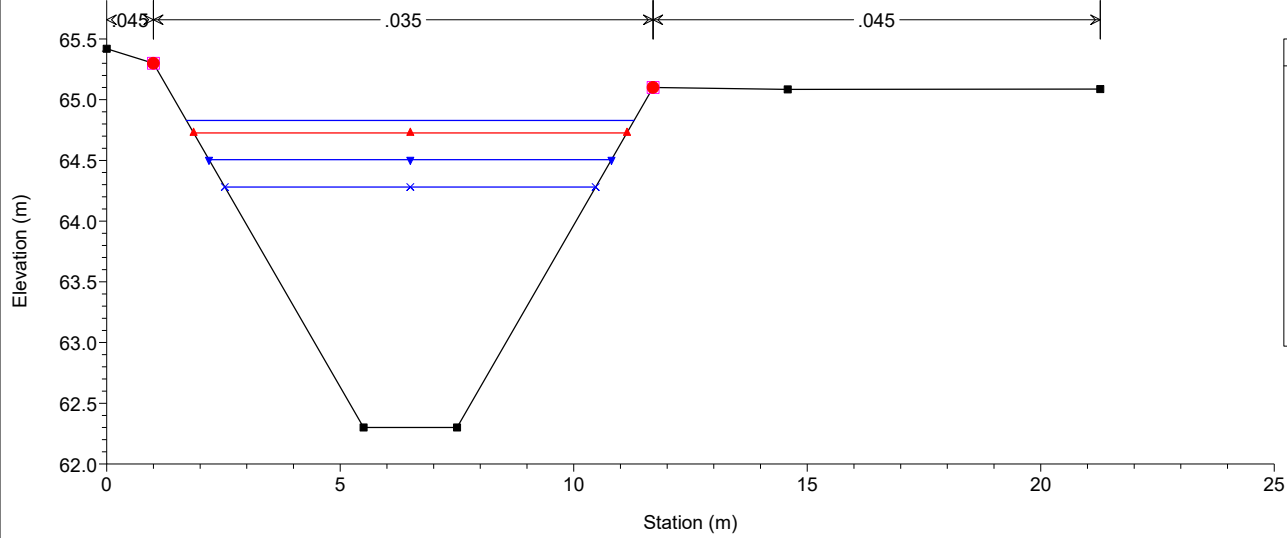




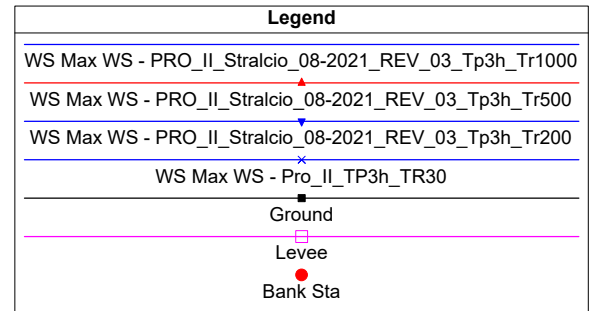
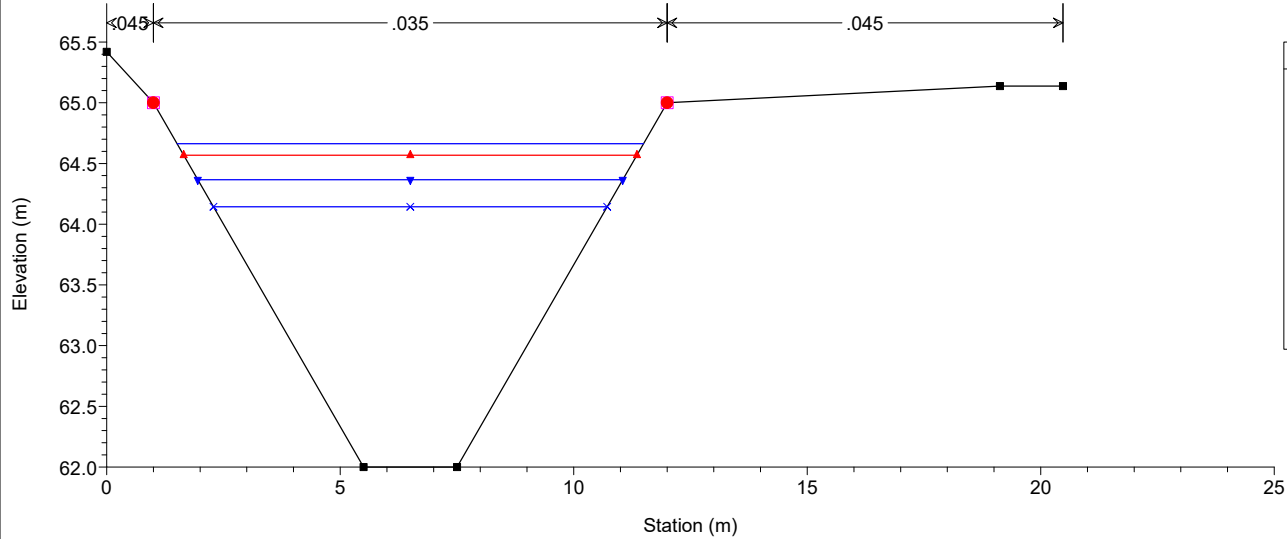


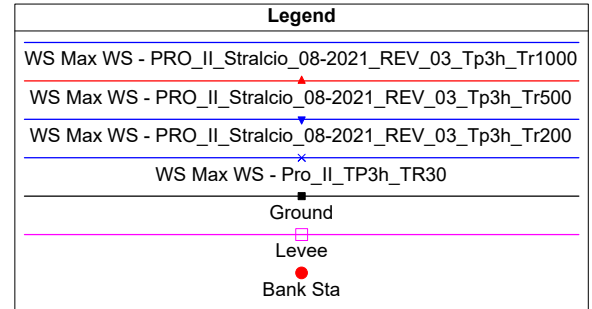
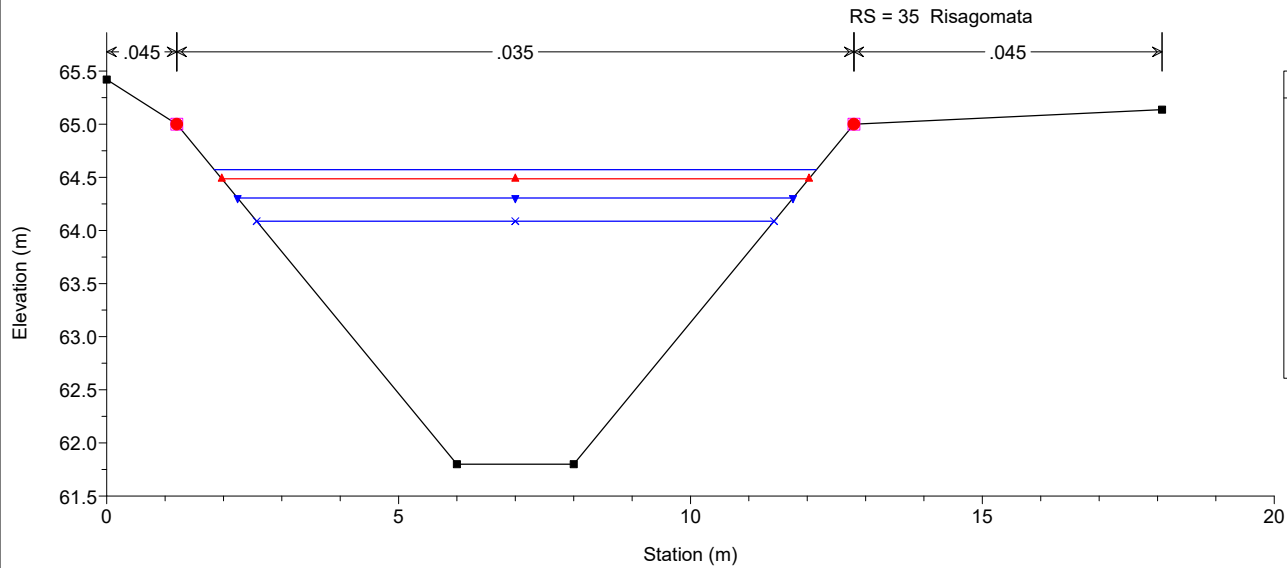
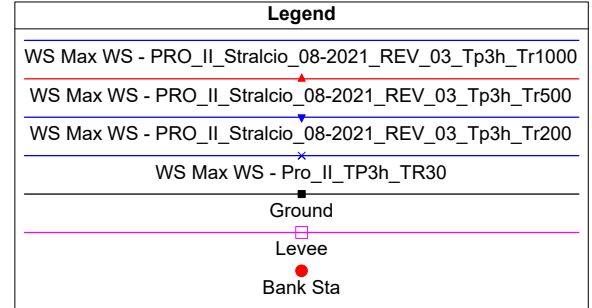
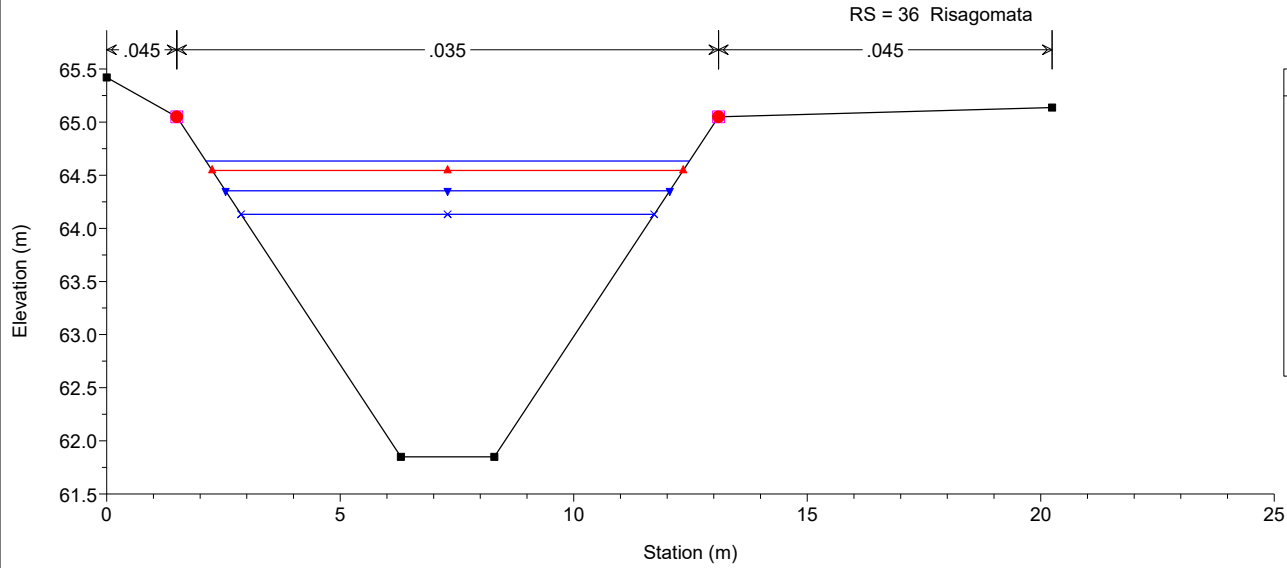


RS = 38.1 Valle attraversamento demolito - Risagomata

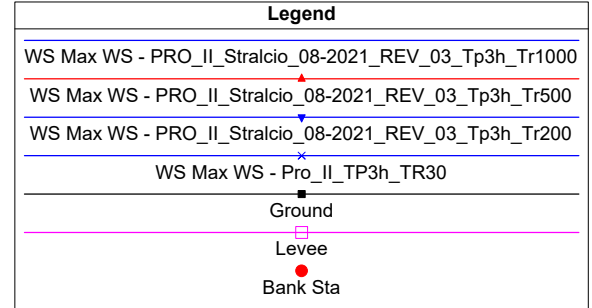
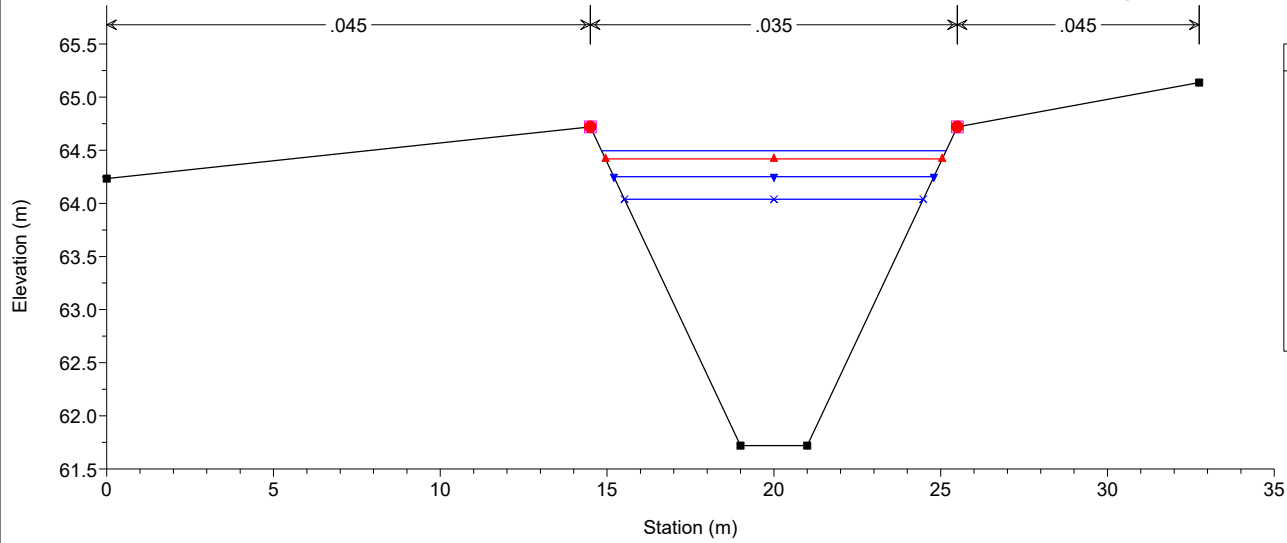


RS = 37 Risagomata

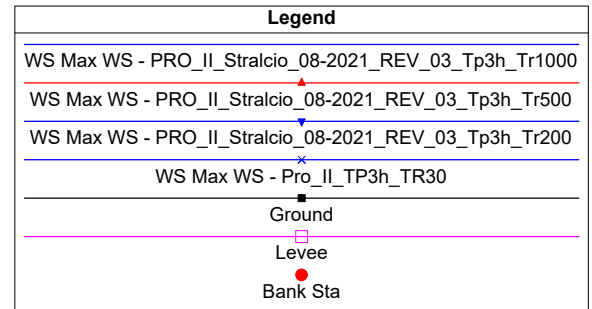
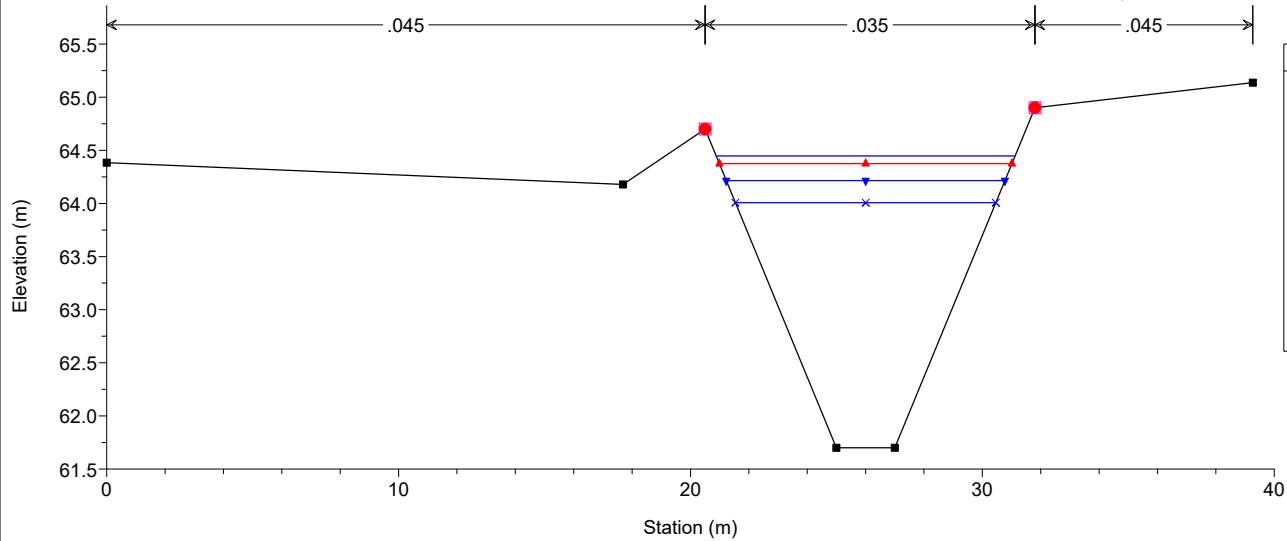




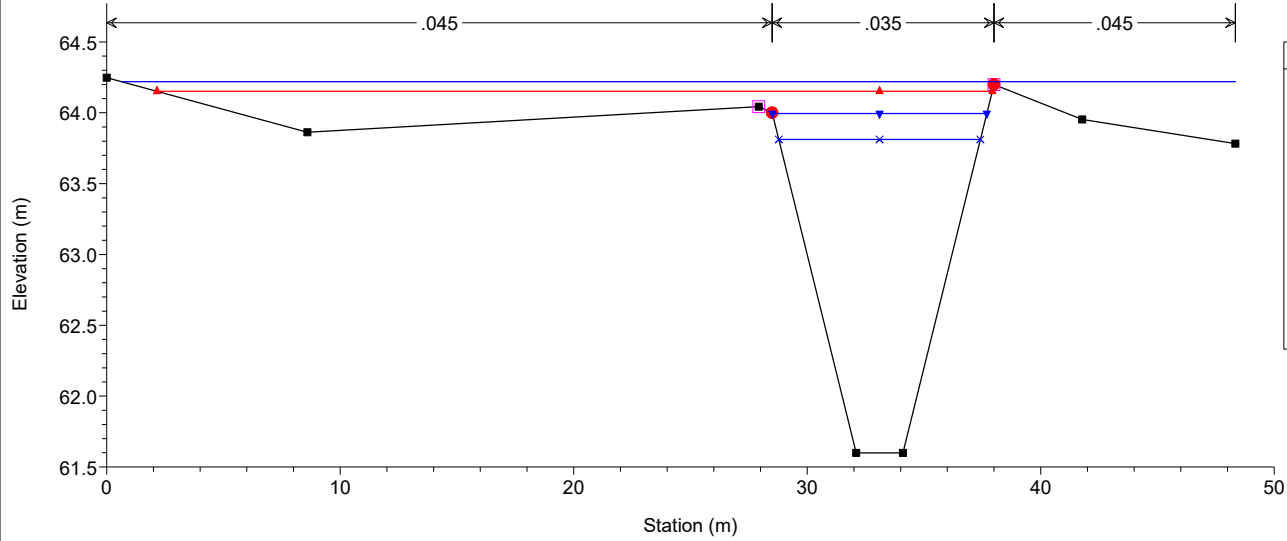
RS = 34.2 Monte attraversamento demolito - Risagomata



RS = 34.1 Valle attraversamento demolito - Risagomata

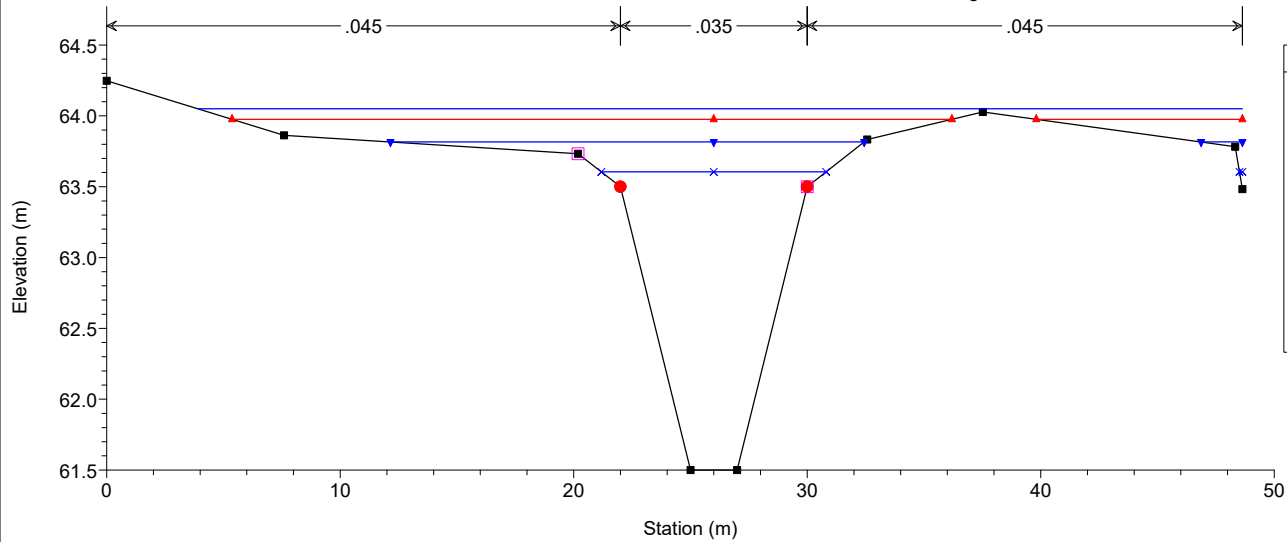


RS = 33 Risagomata

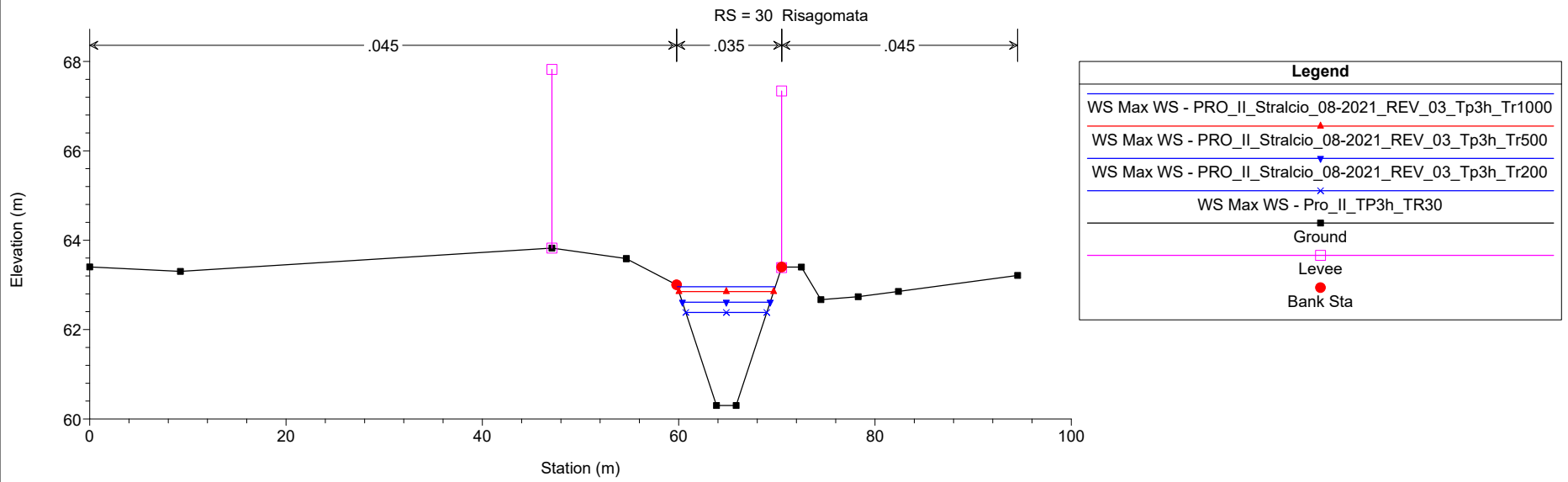
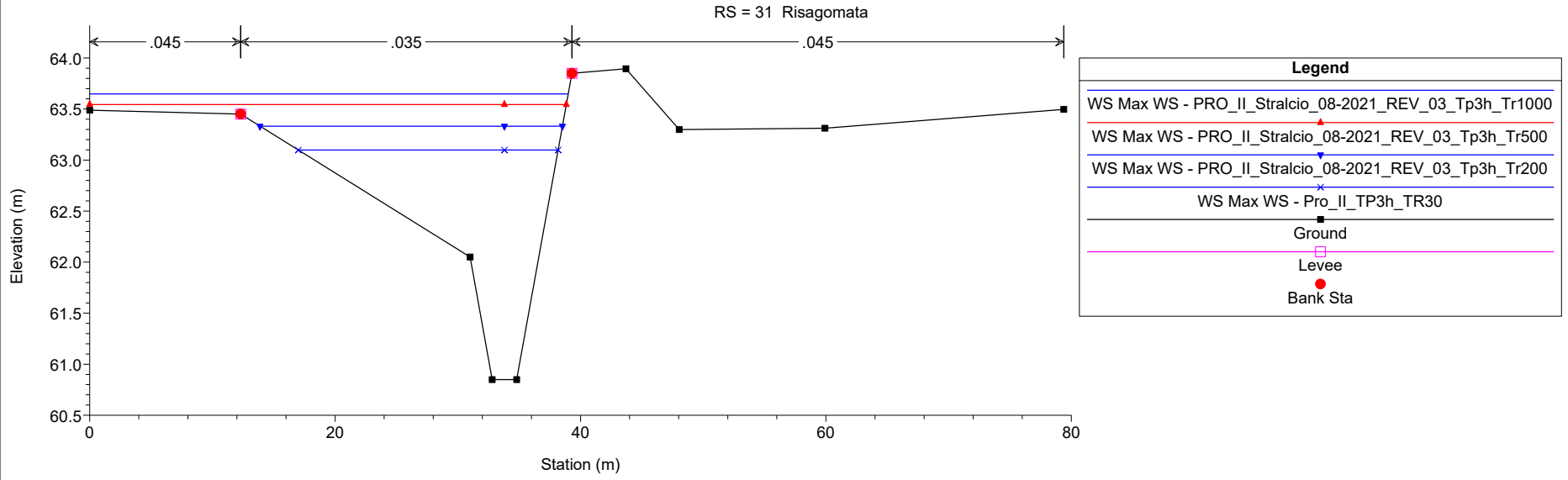


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	
WS Max WS - Pro_II_TP3h_TR30	
Ground	
Levee	
Bank Sta	

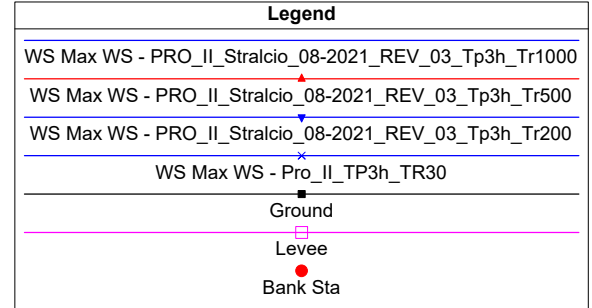
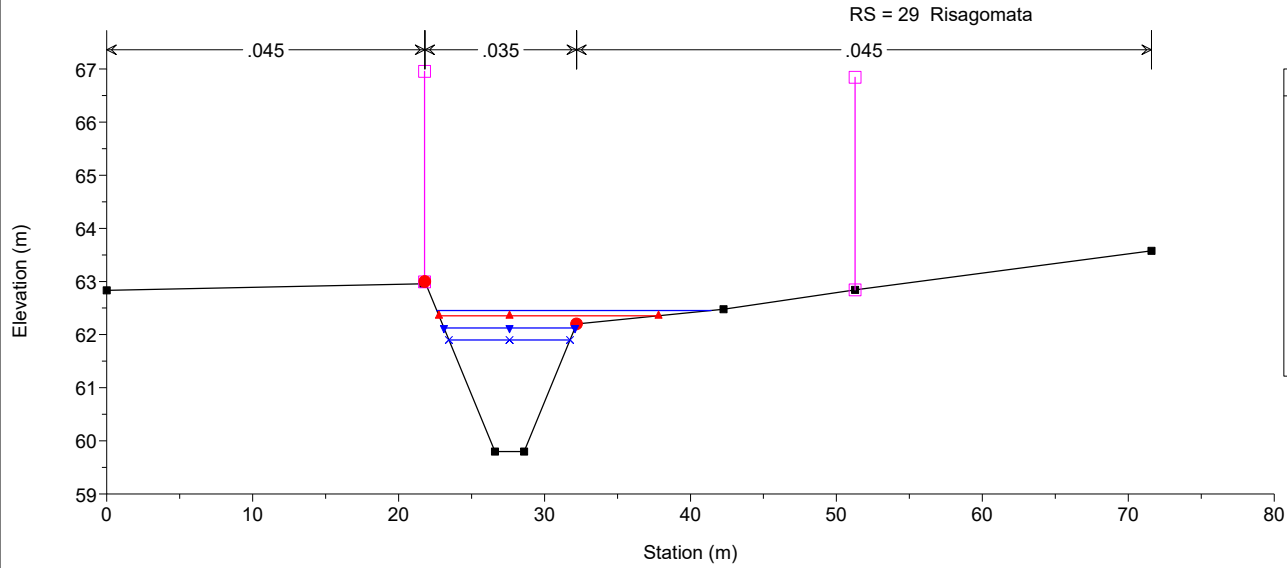
RS = 32 Risagomata



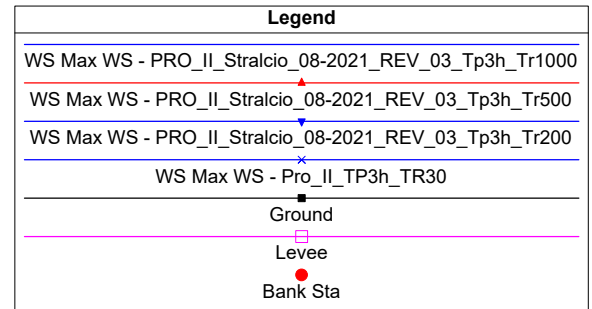
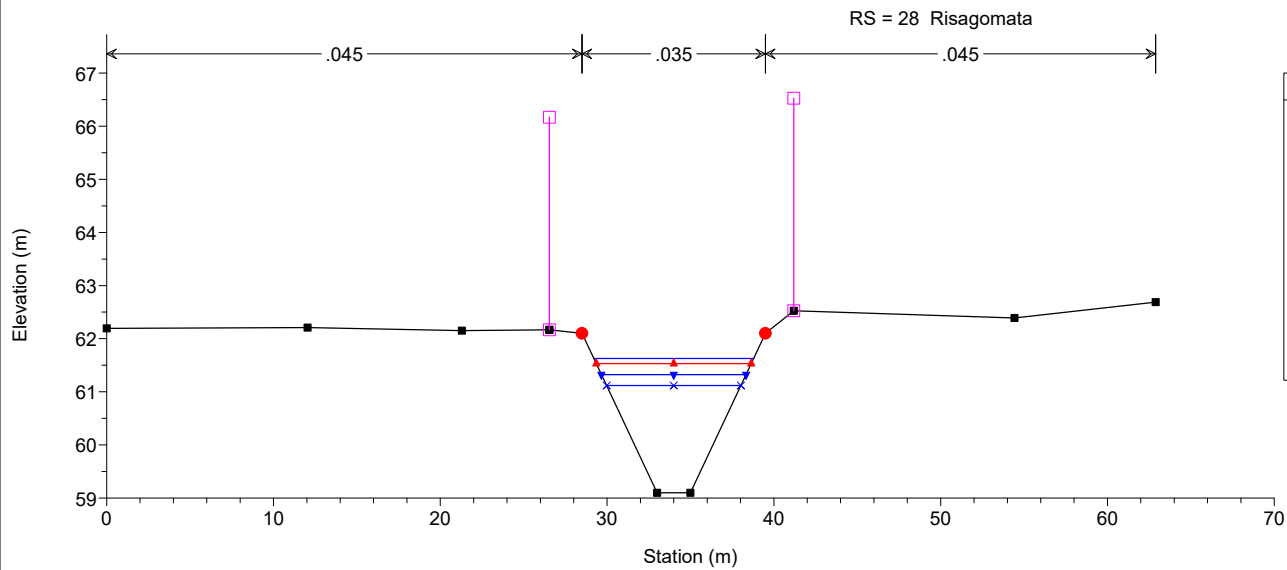
Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	
WS Max WS - Pro_II_TP3h_TR30	
Ground	
Levee	
Bank Sta	



RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

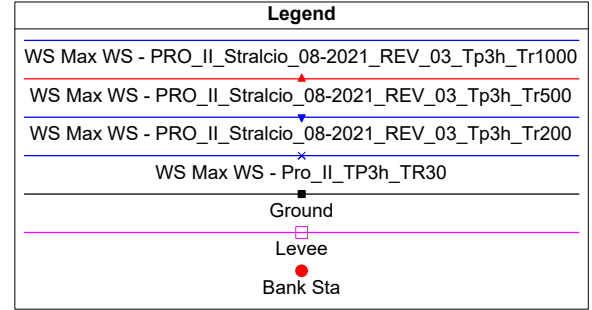
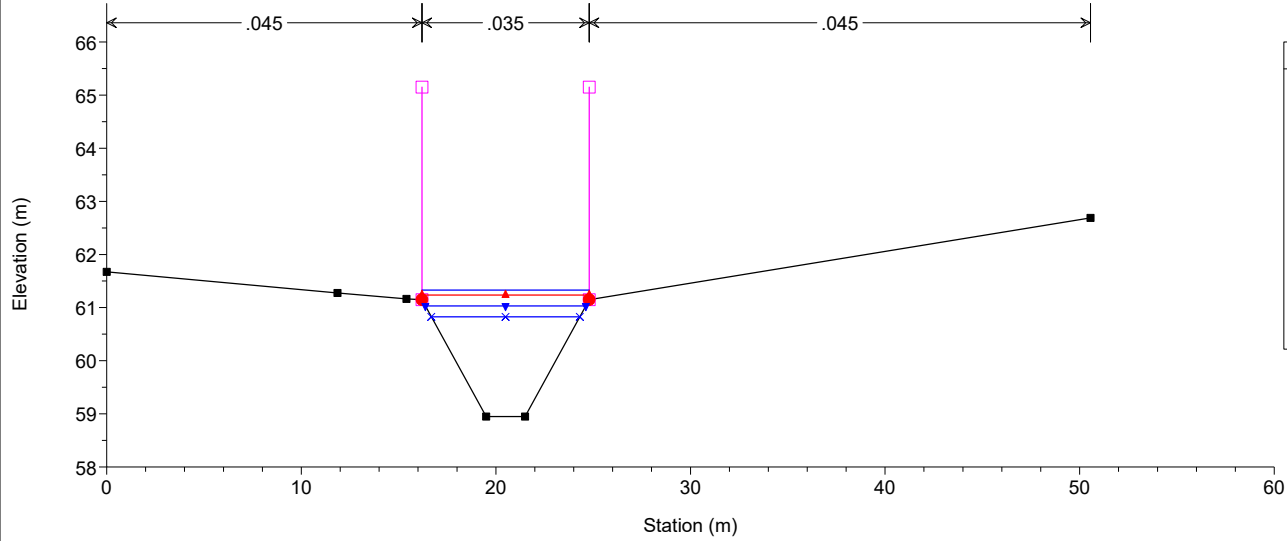


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



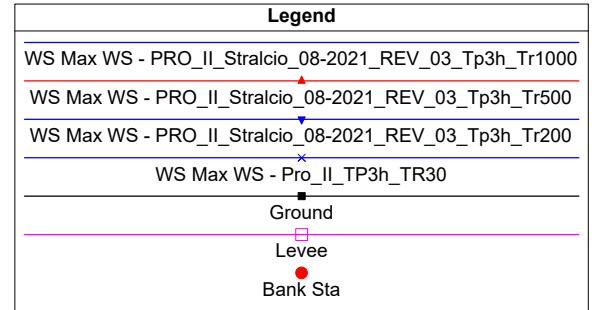
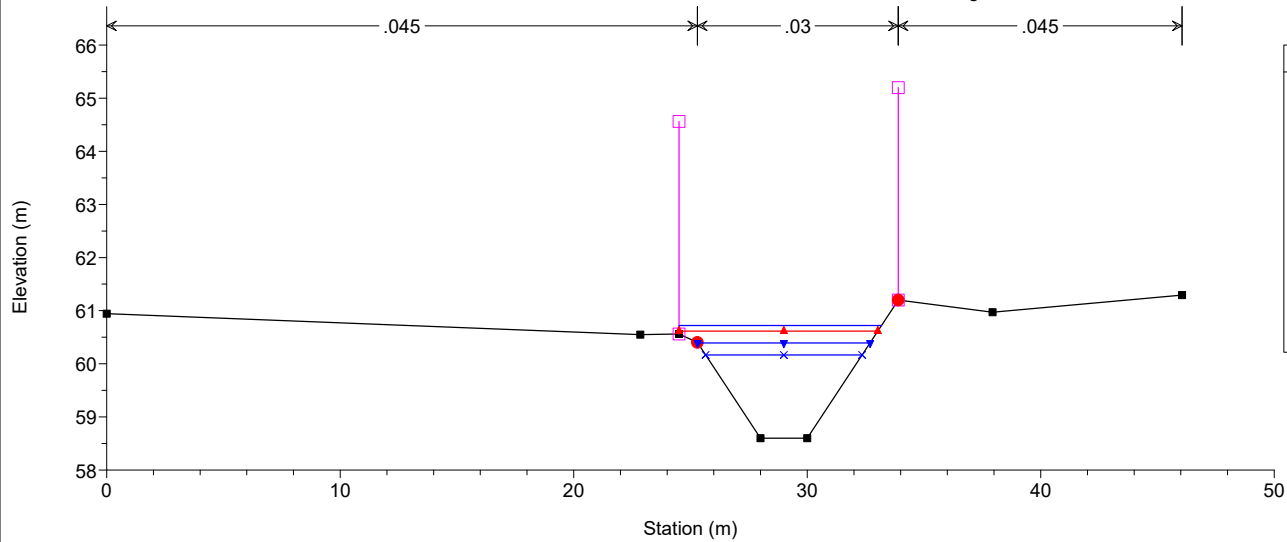
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 27 Risagomata

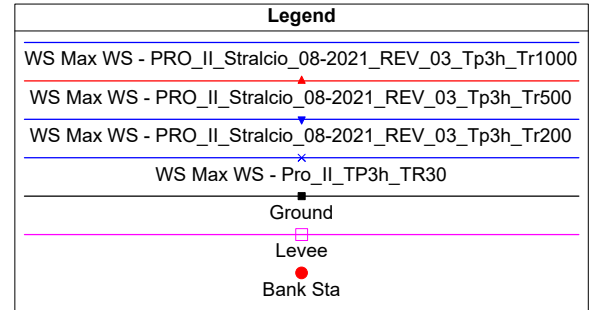
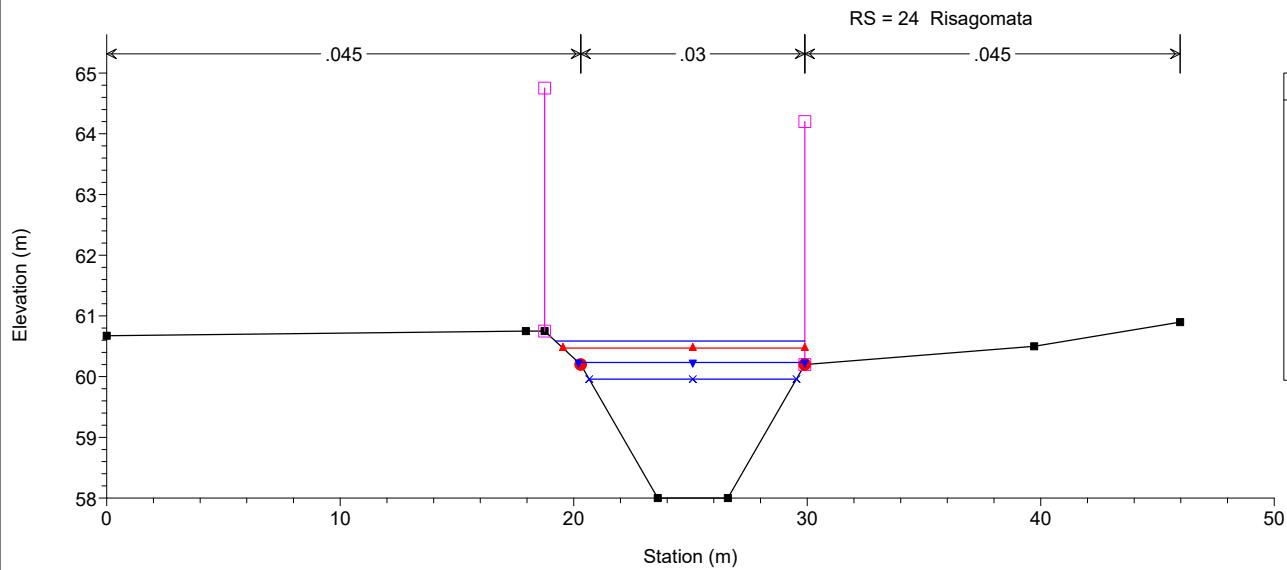
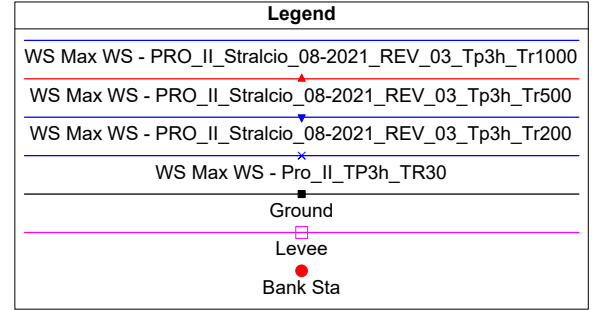
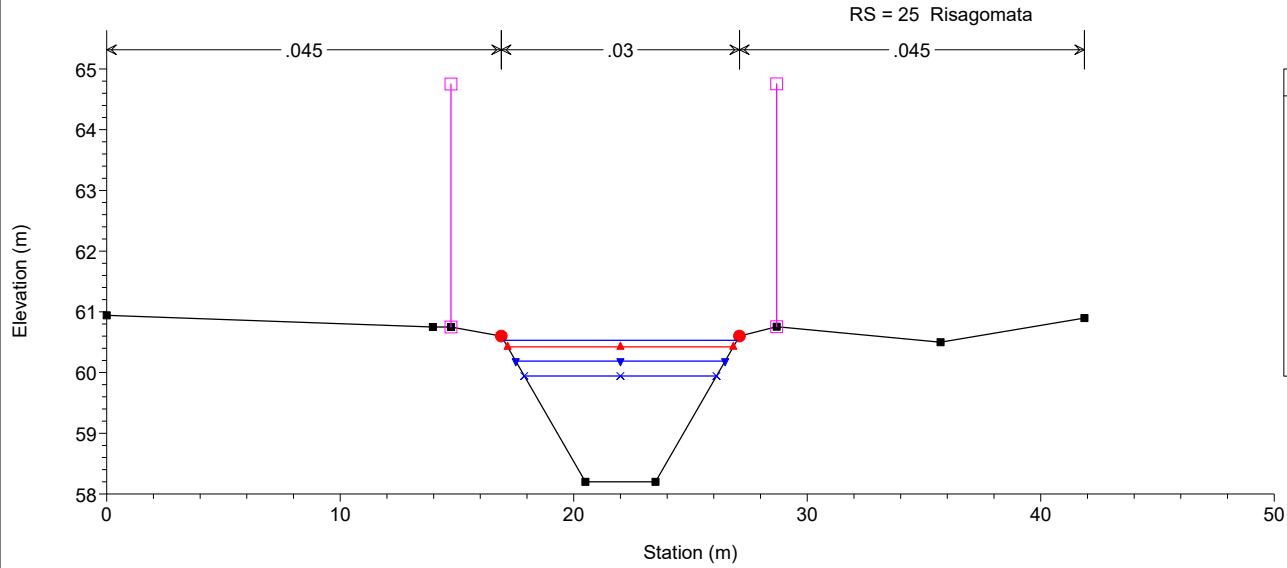


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

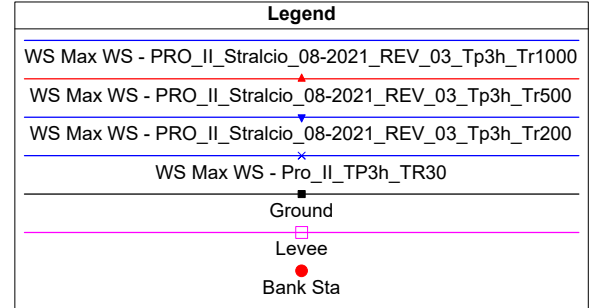
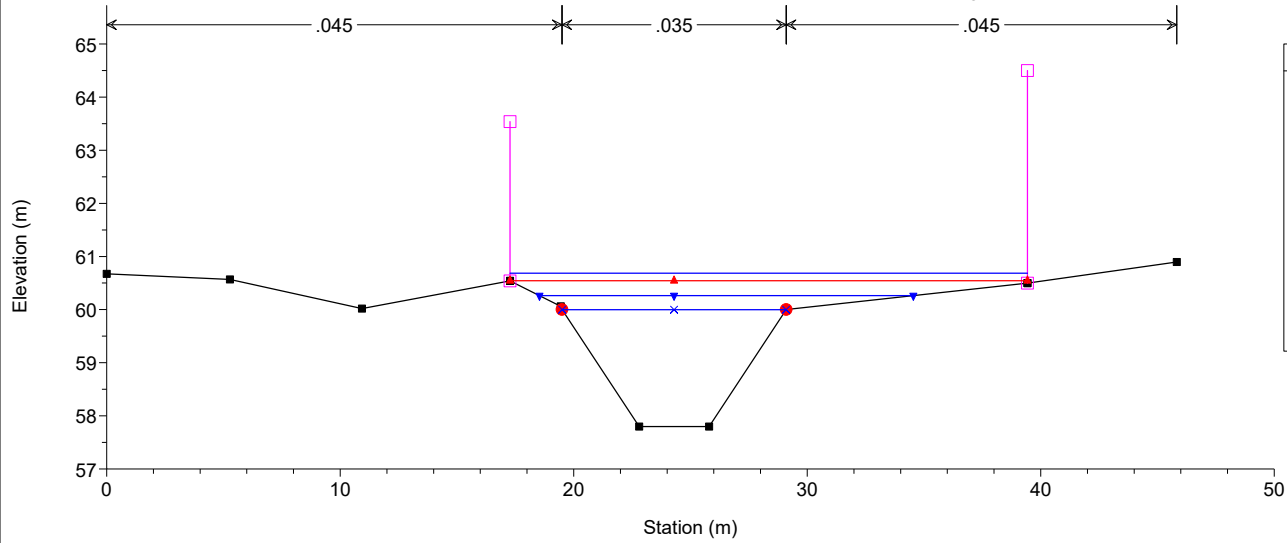
RS = 26 Risagomata



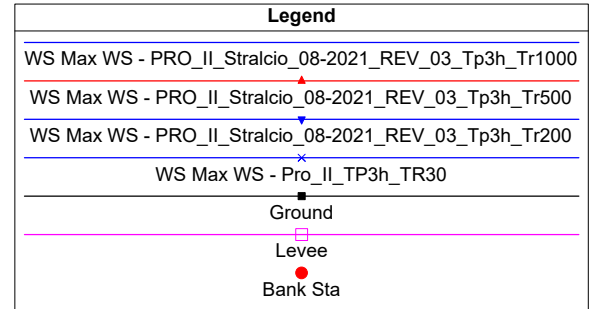
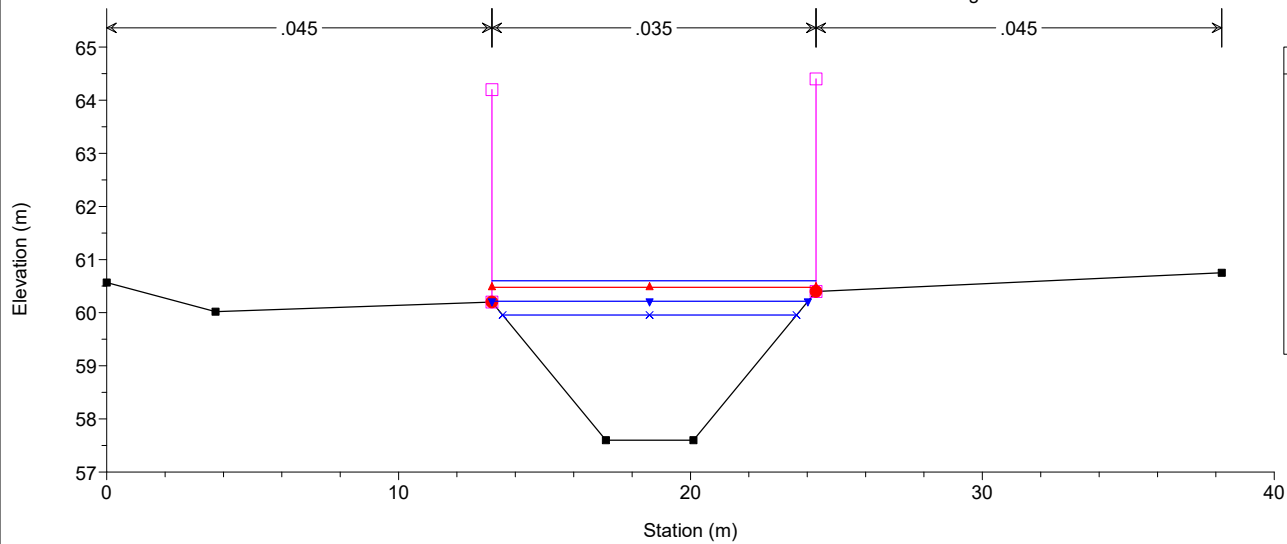




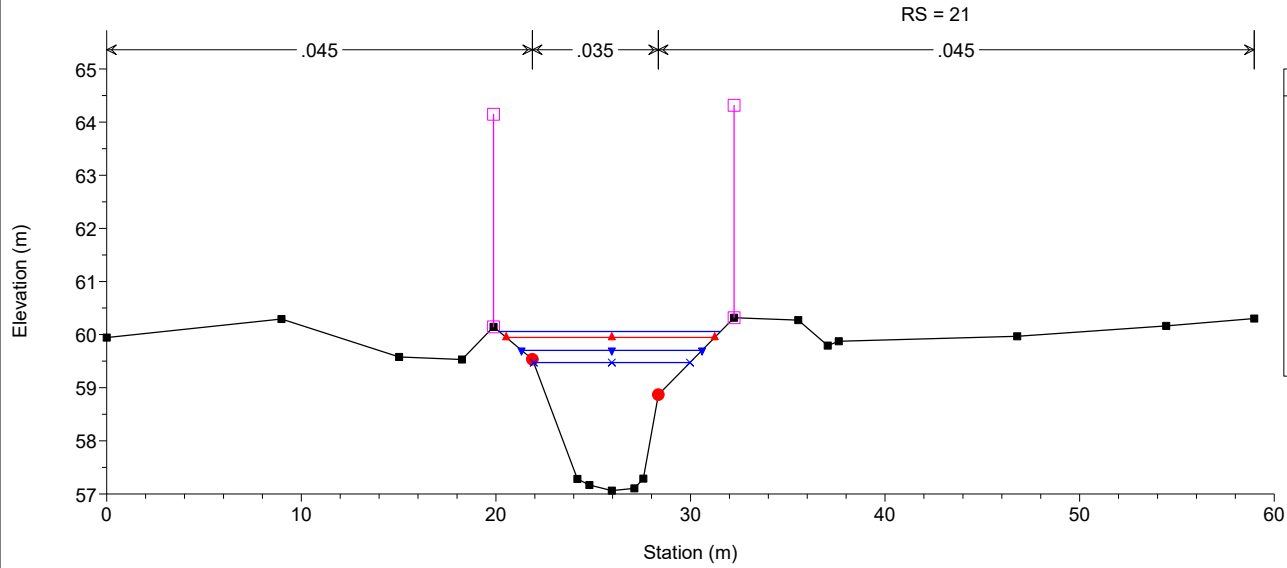
RS = 23 Risagomata



RS = 22 Risagomata

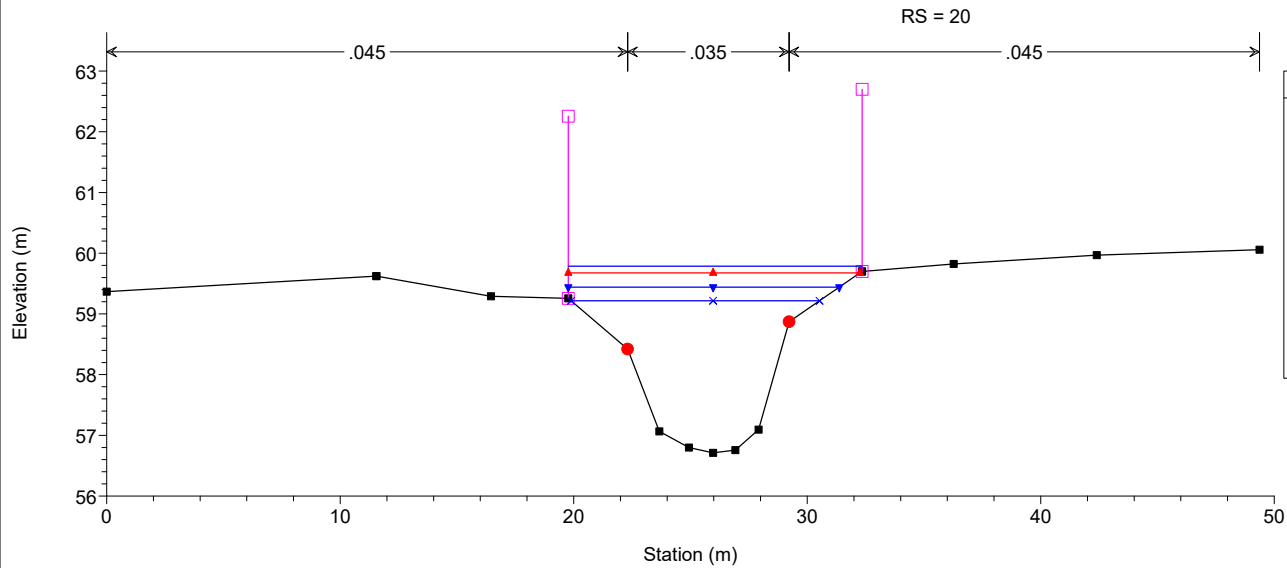


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

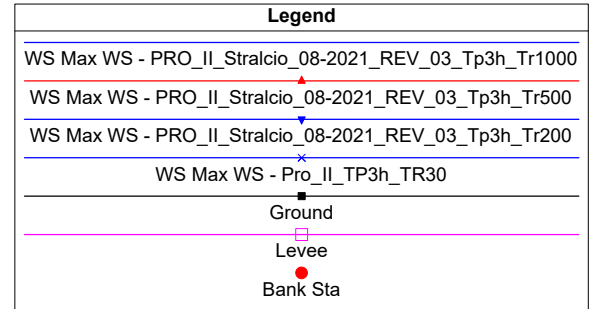
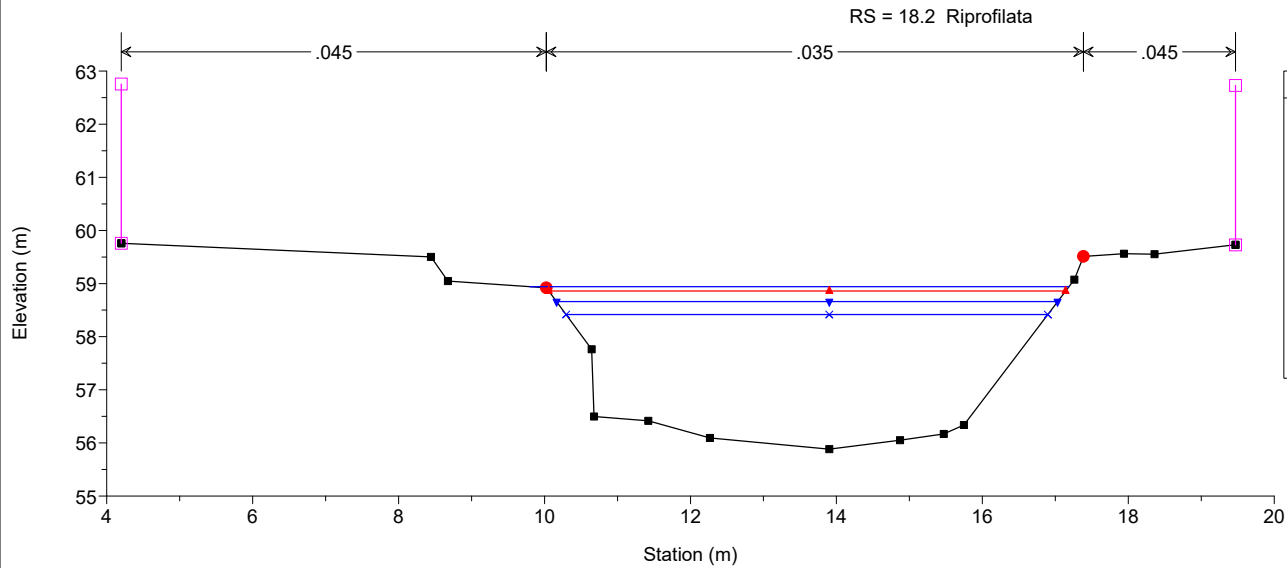
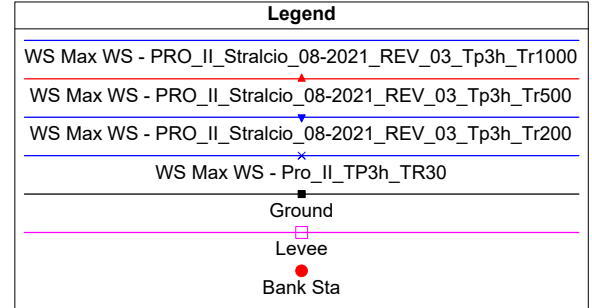
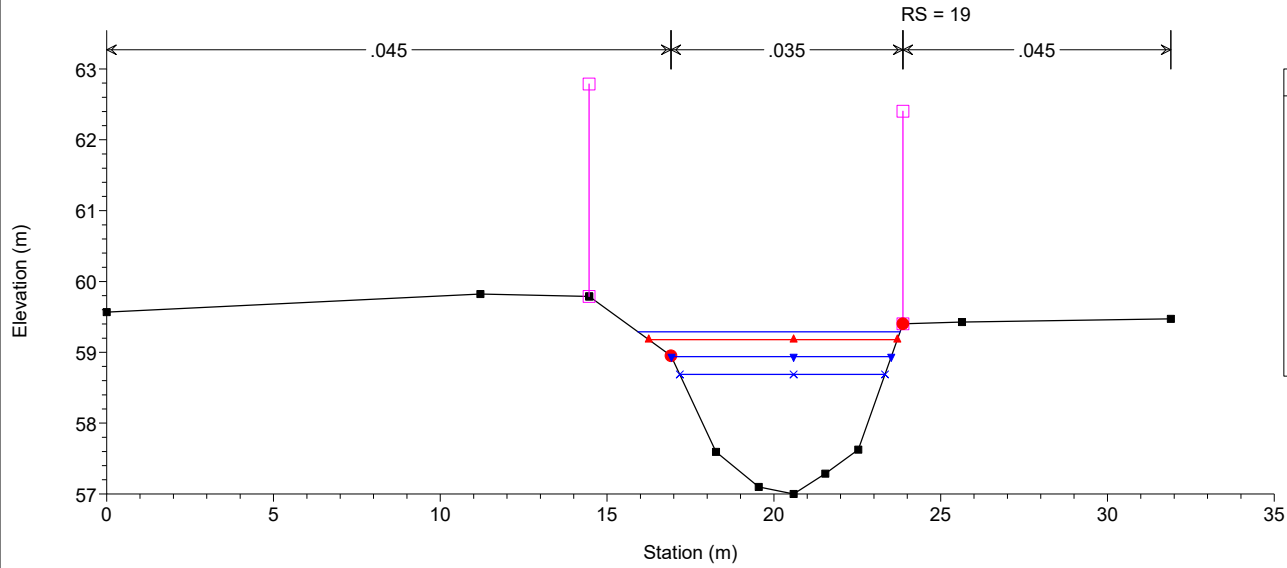


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	×
WS Max WS - Pro_II_TP3h_TR30	■
Ground	■
Levee	□
Bank Sta	●

RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

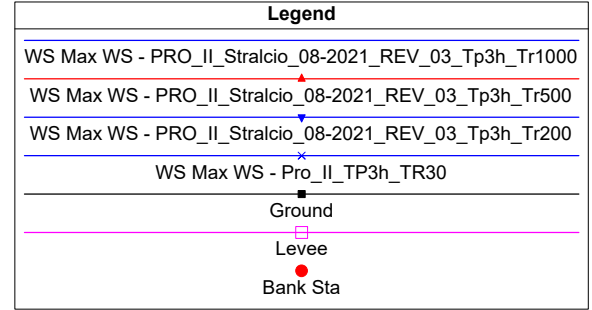
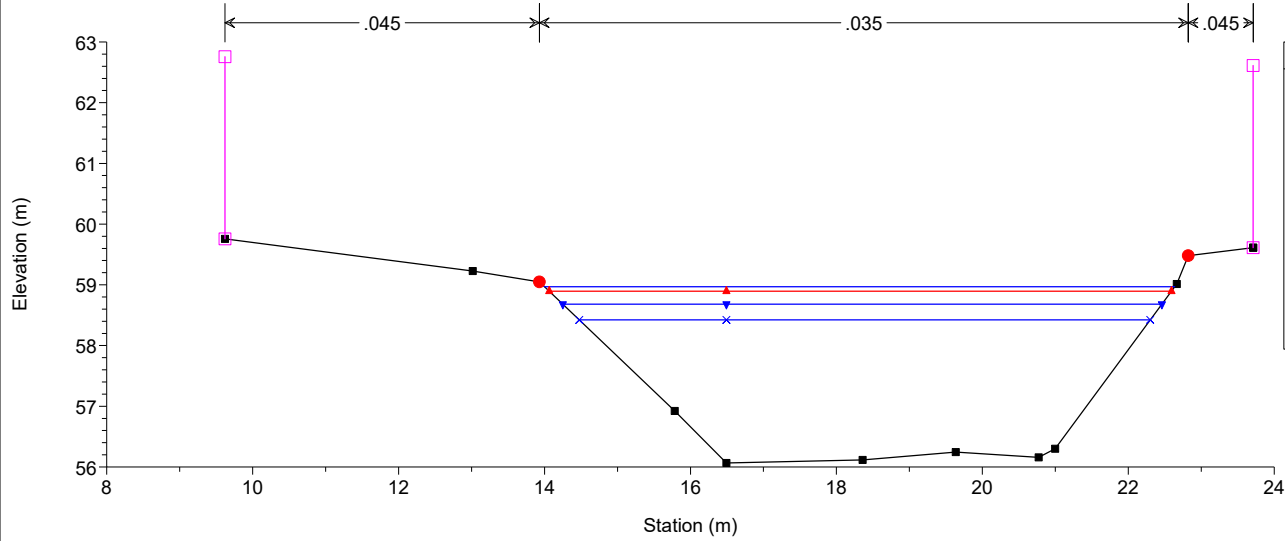


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	×
WS Max WS - Pro_II_TP3h_TR30	■
Ground	■
Levee	□
Bank Sta	●



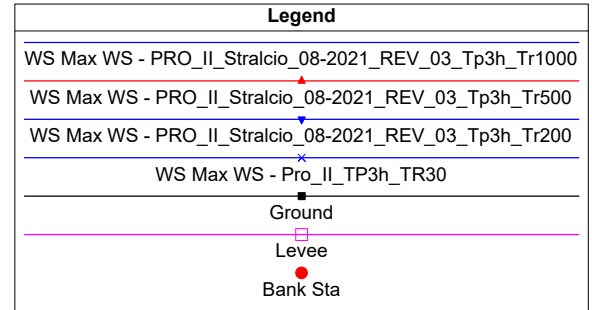
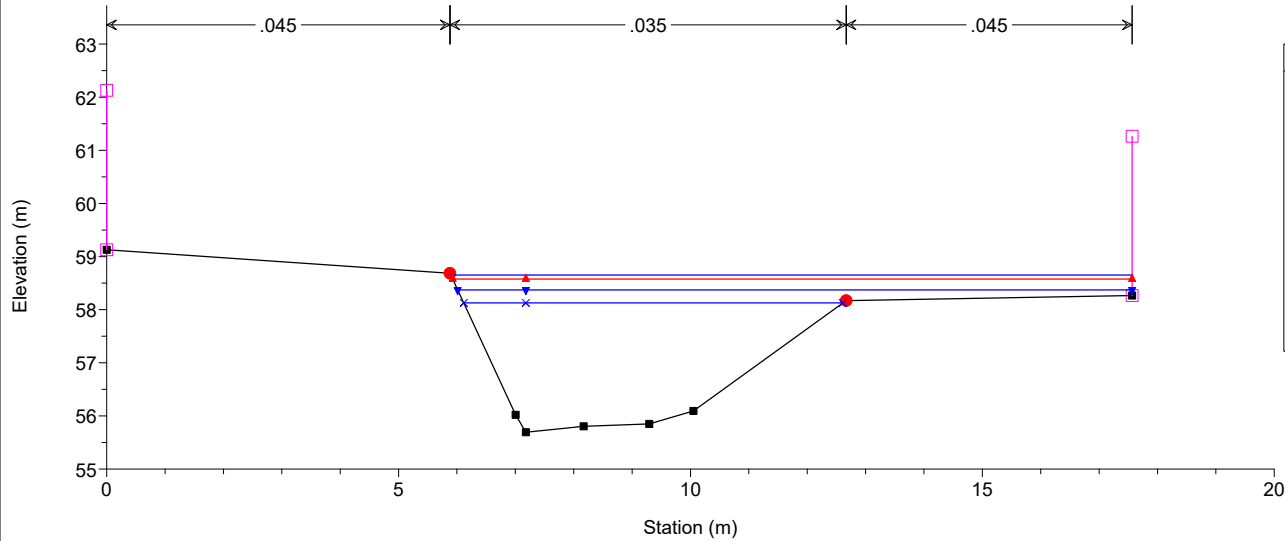
RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

RS = 18.1 Risagomata

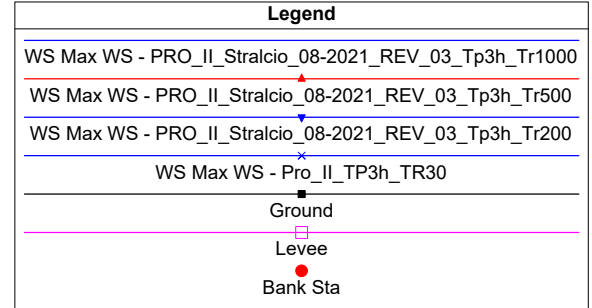
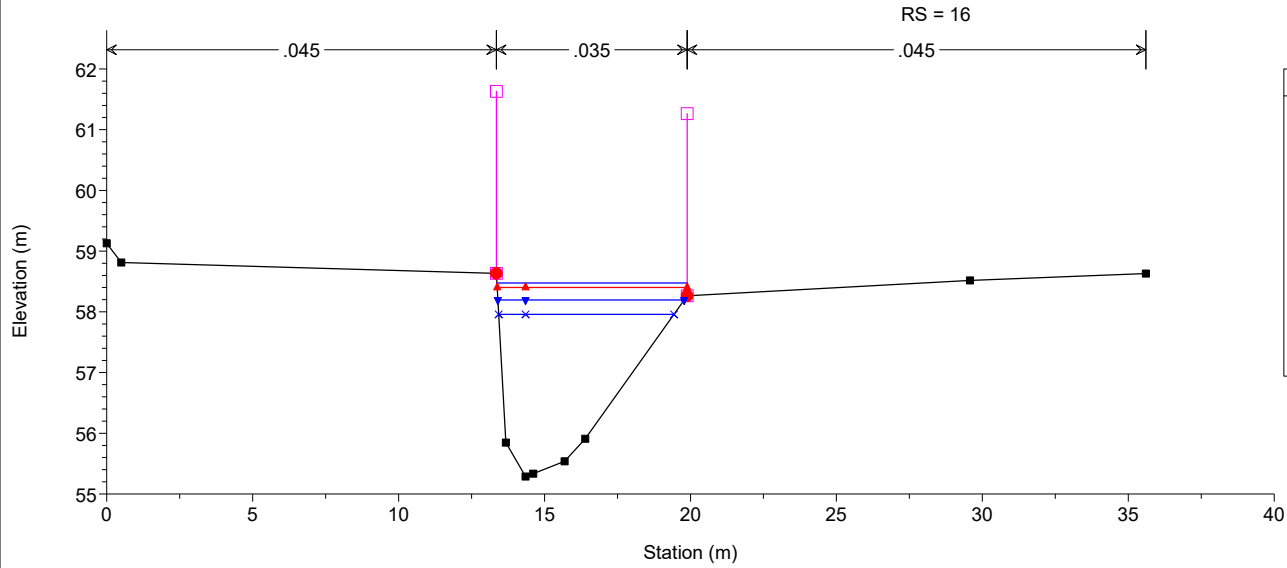


RioPietrosio Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

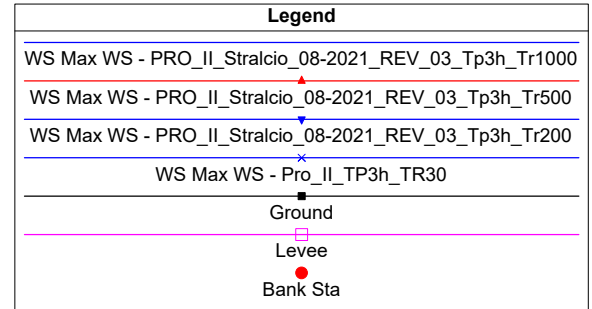
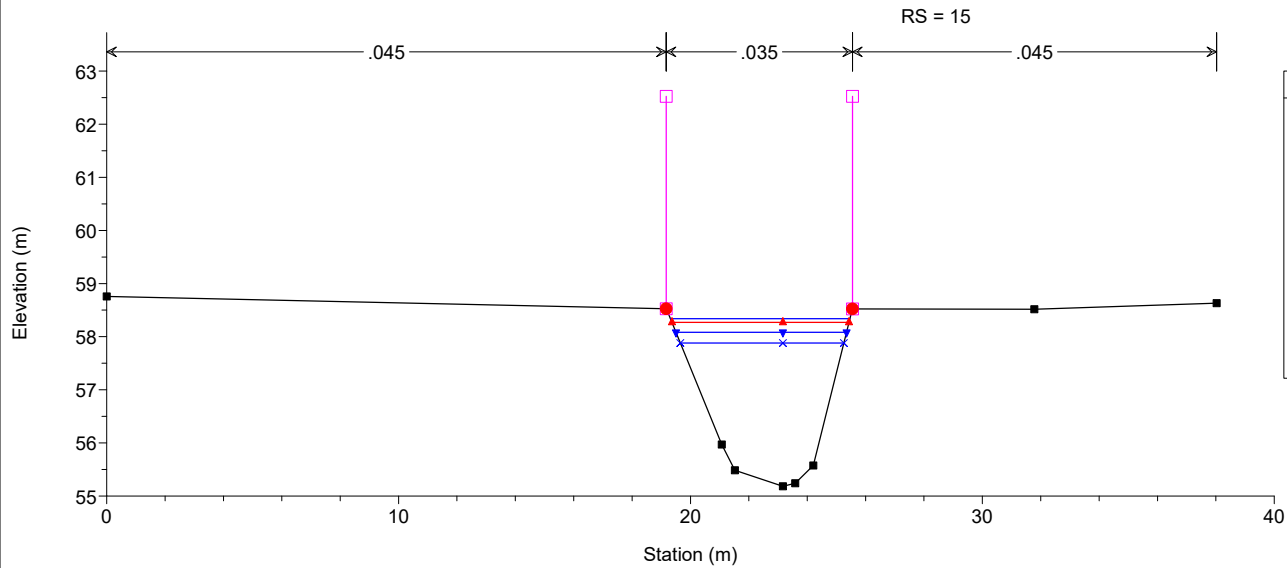
RS = 17 Riprofilata

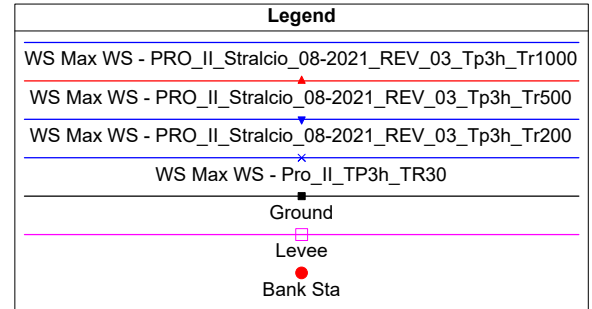
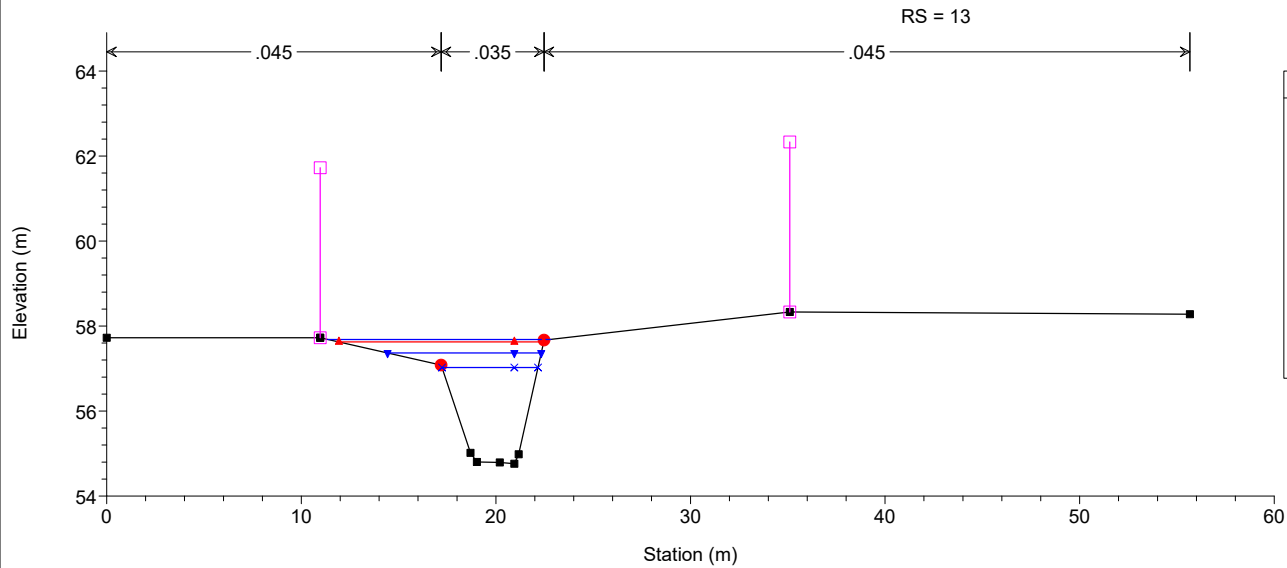
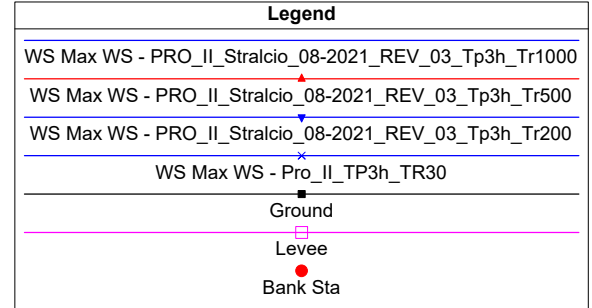
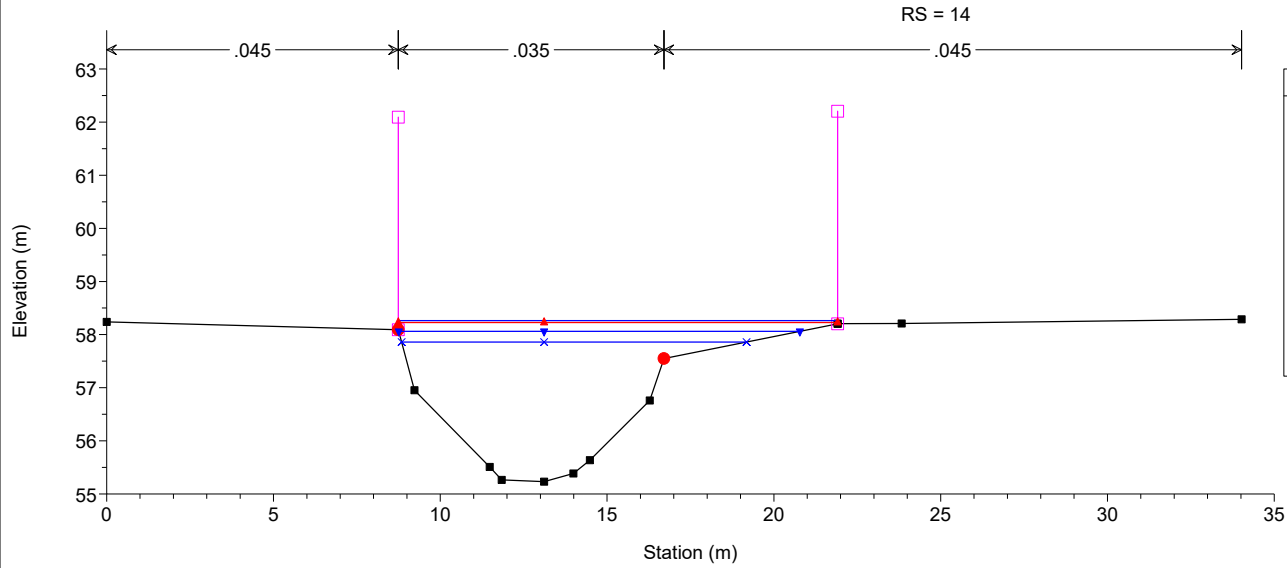


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

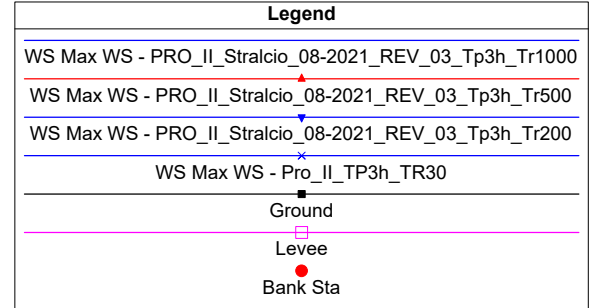
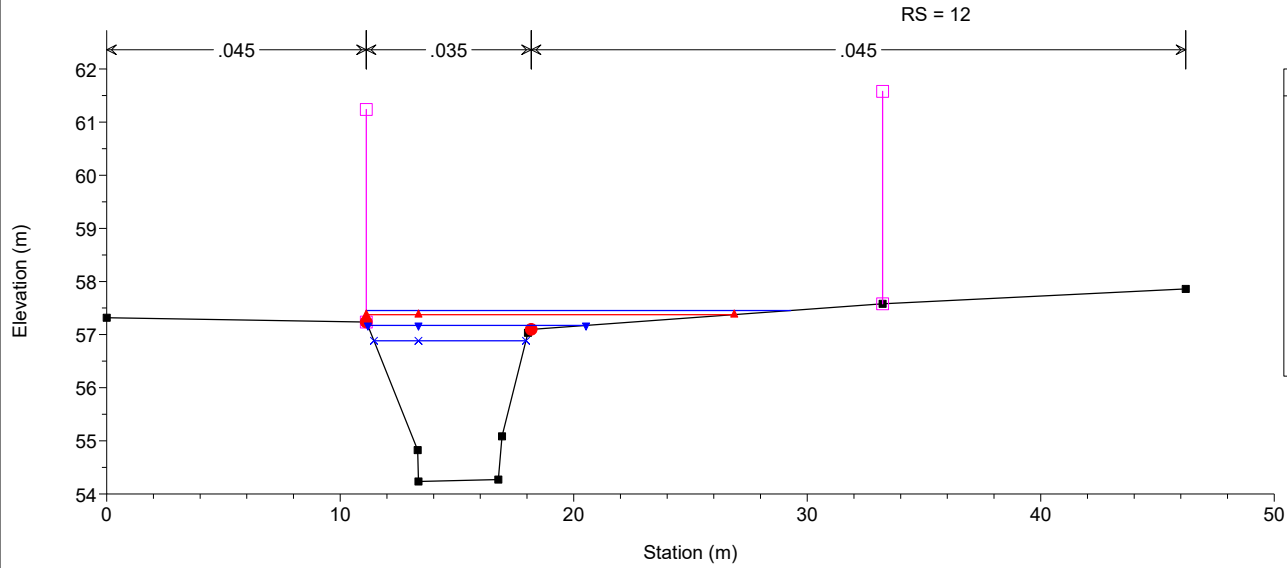


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

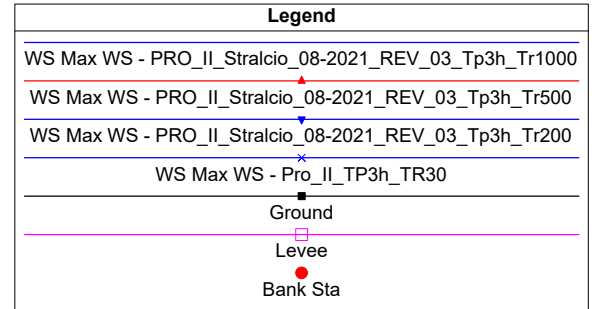
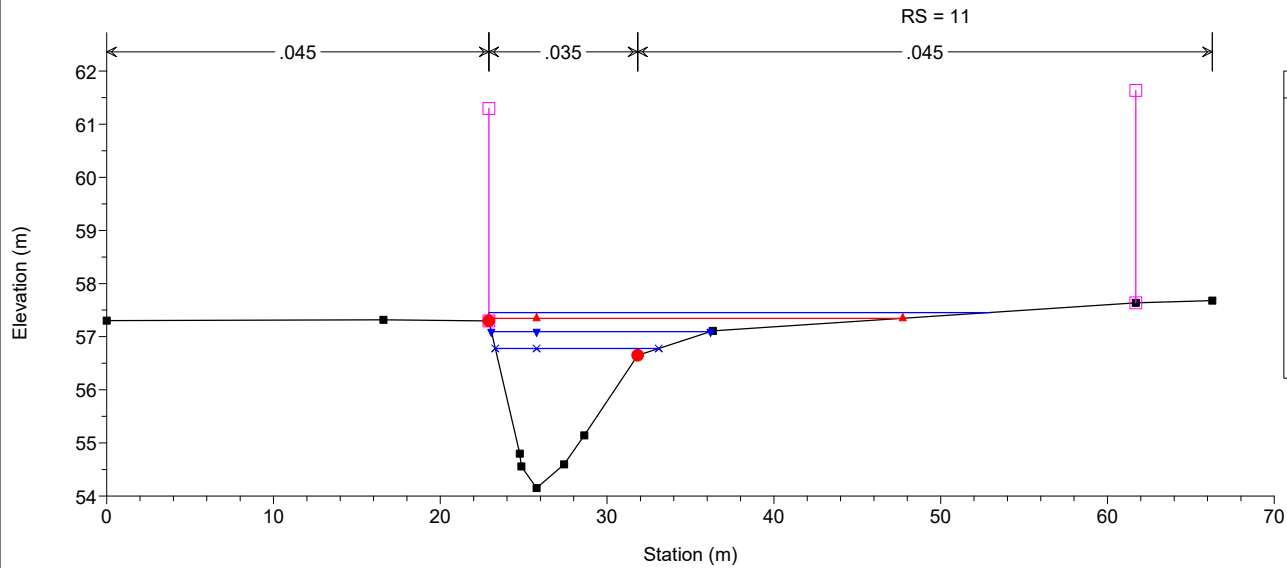




RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

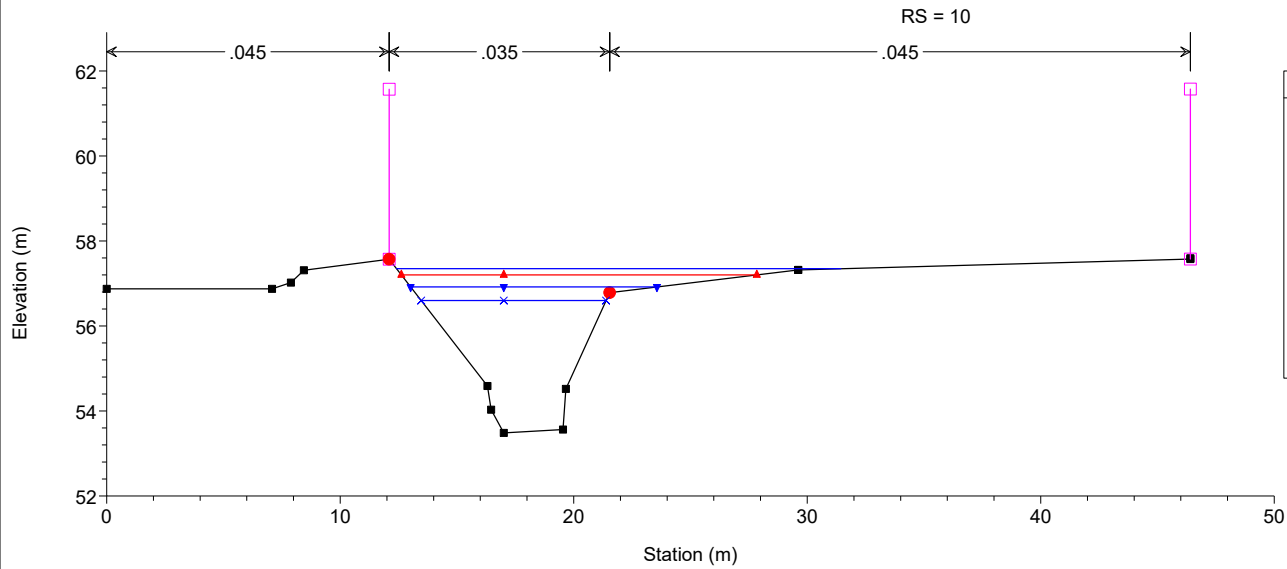


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

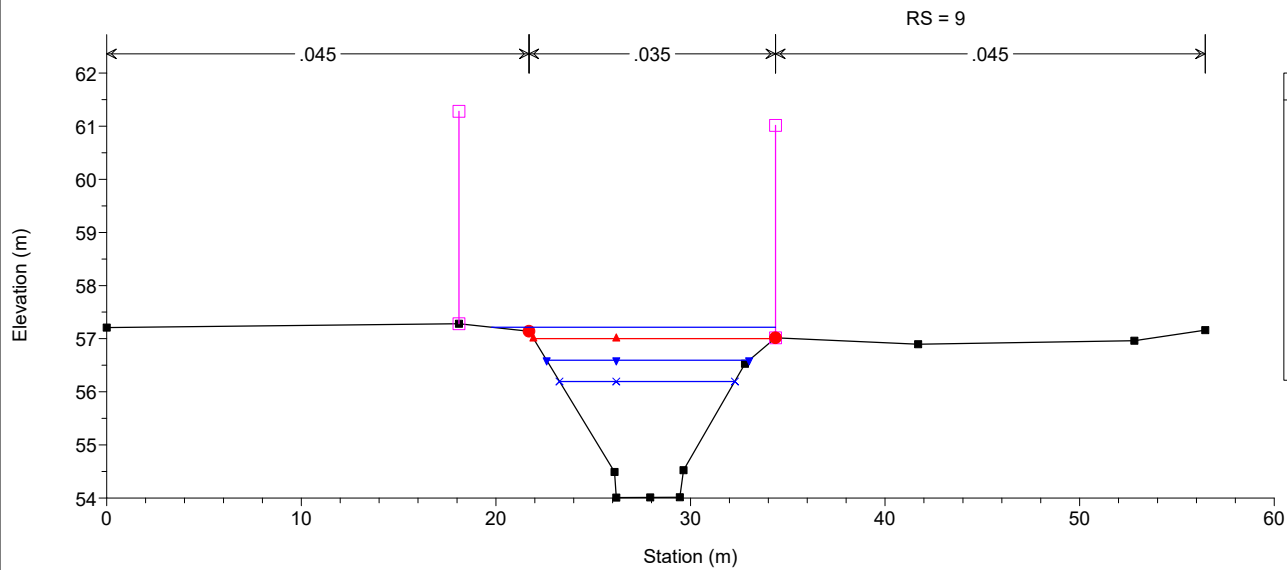




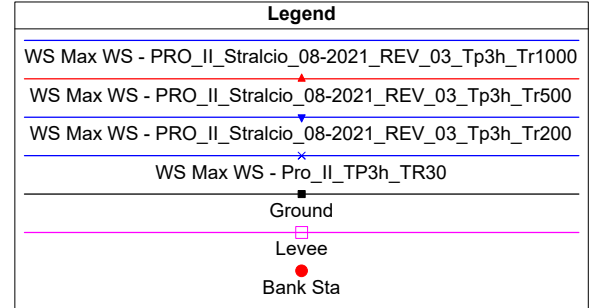
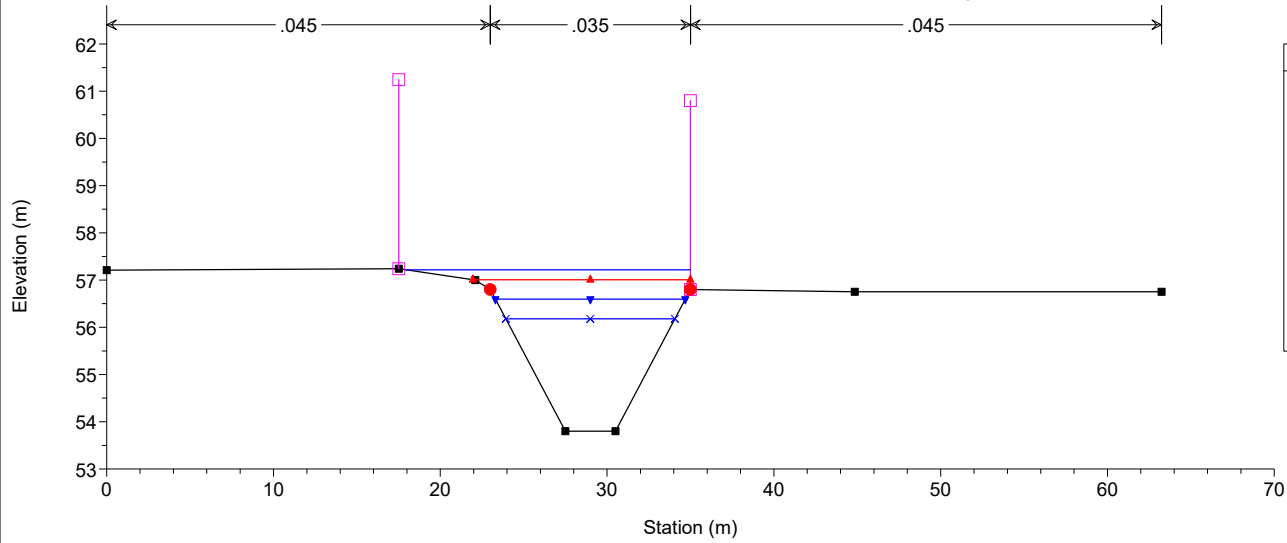
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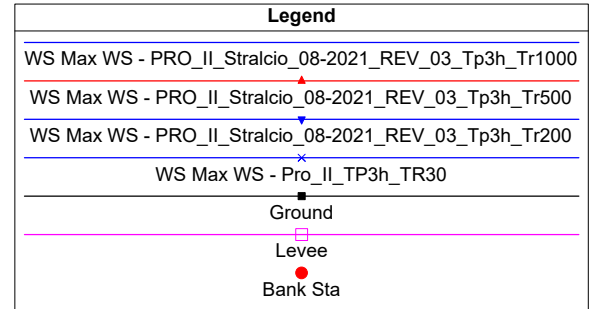
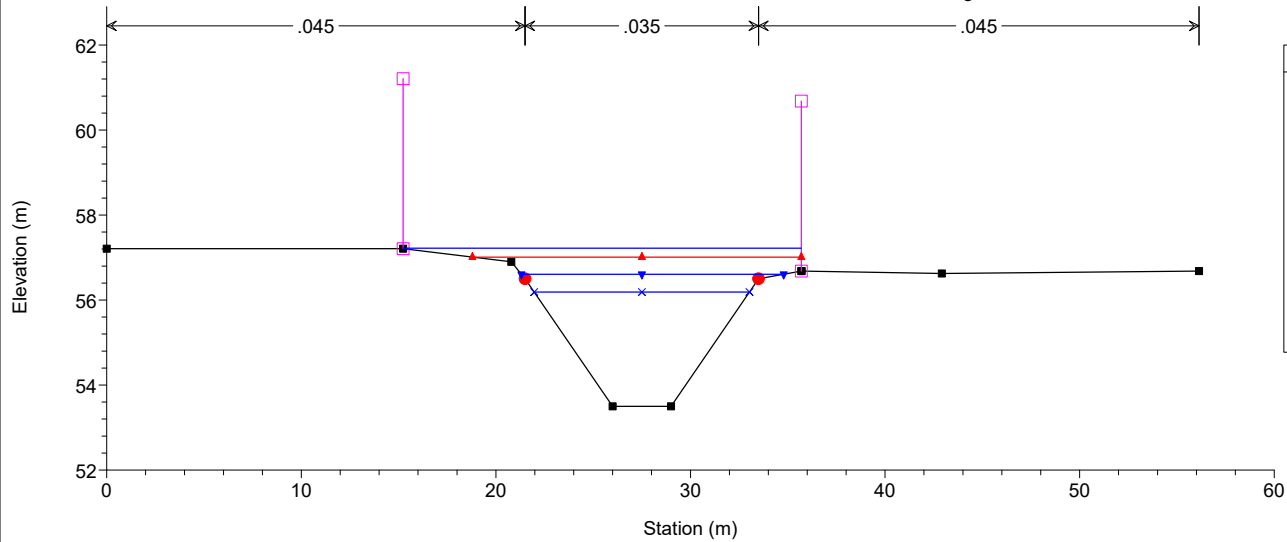
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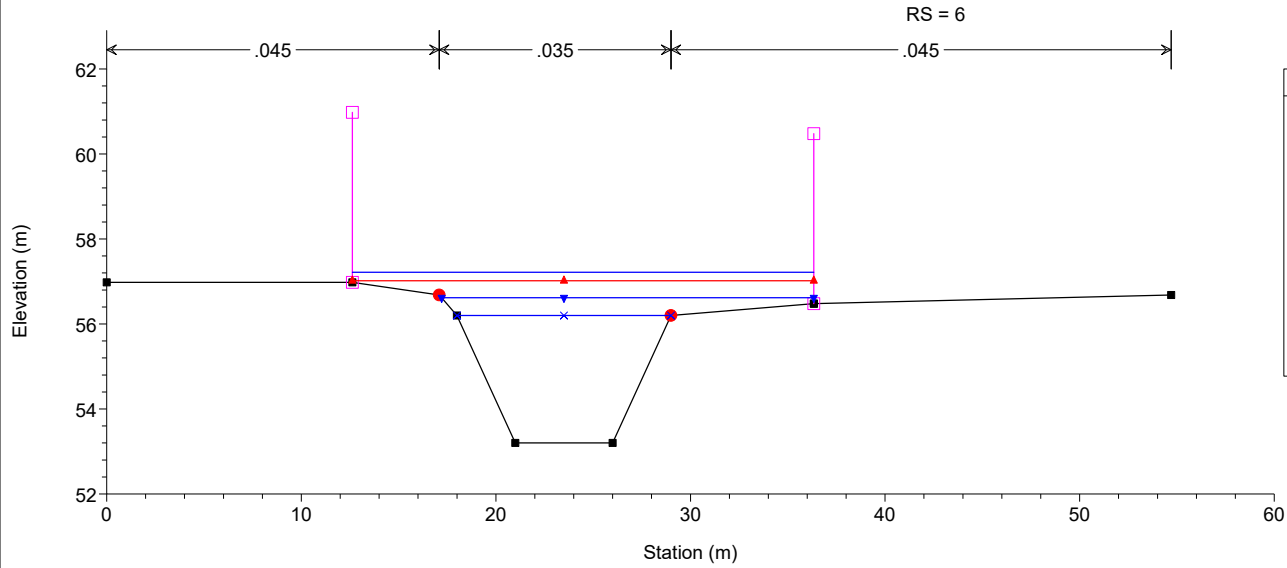
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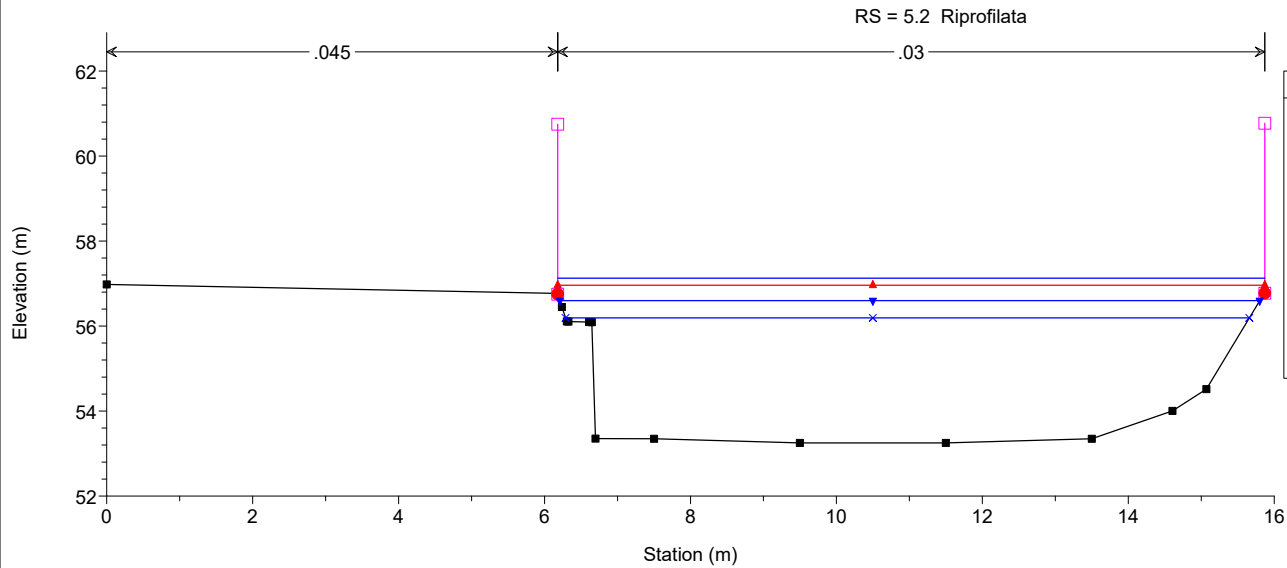
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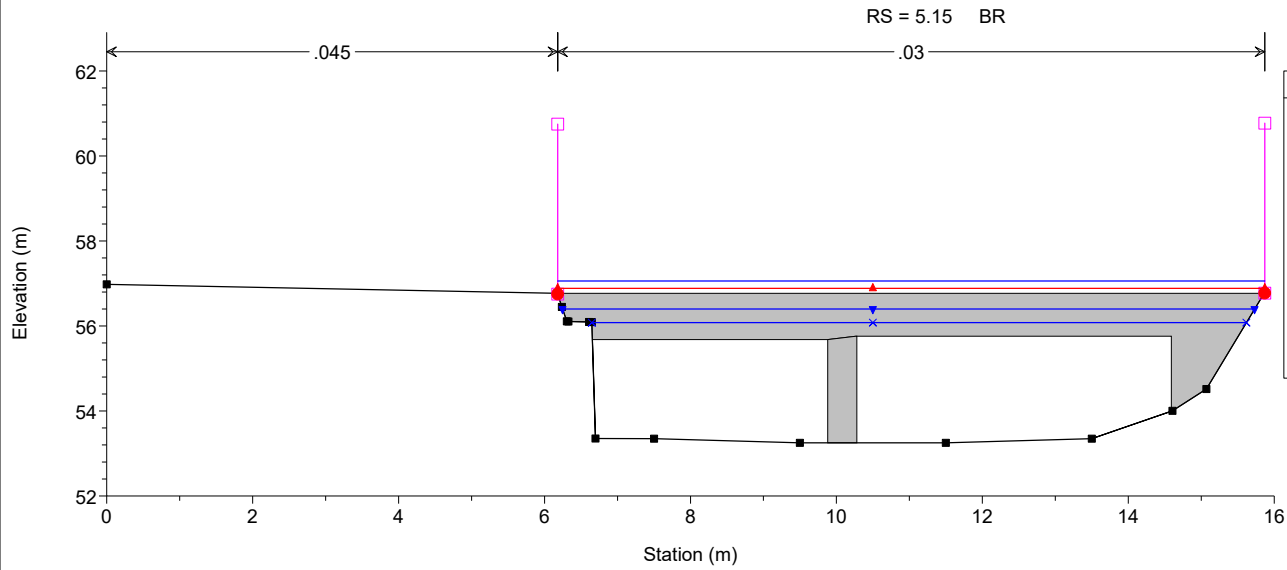


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023

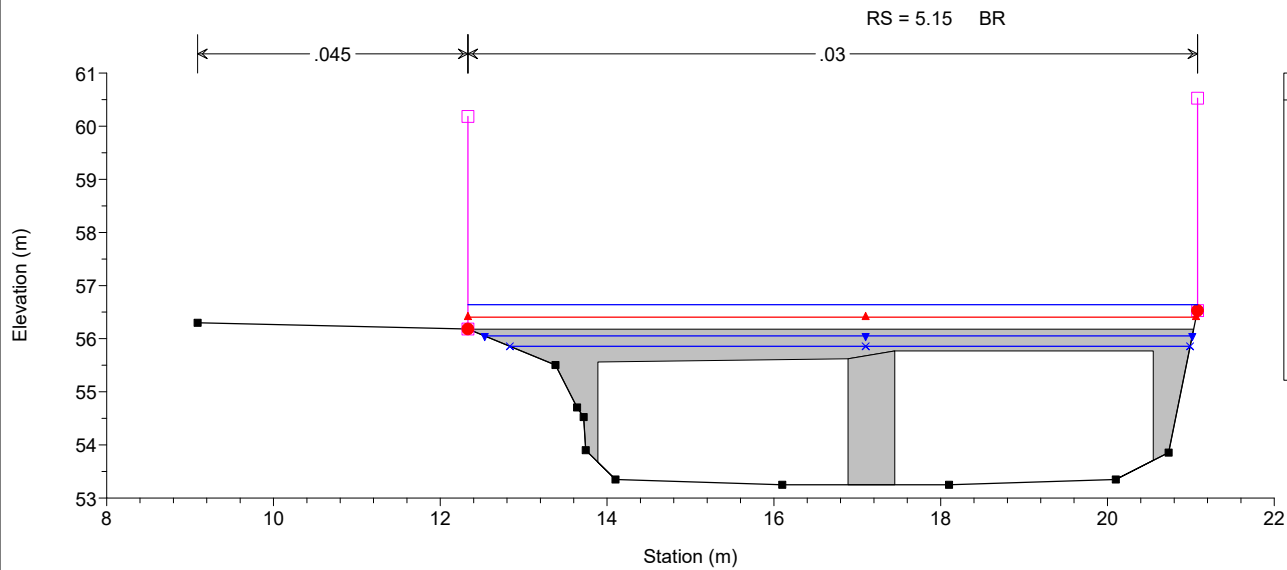


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



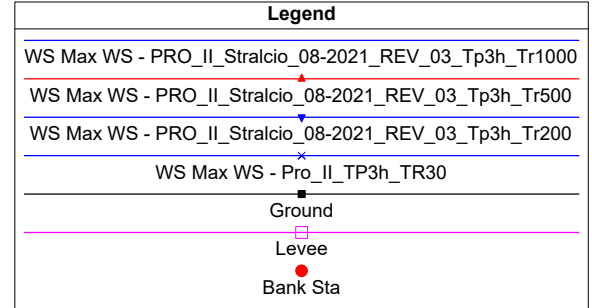
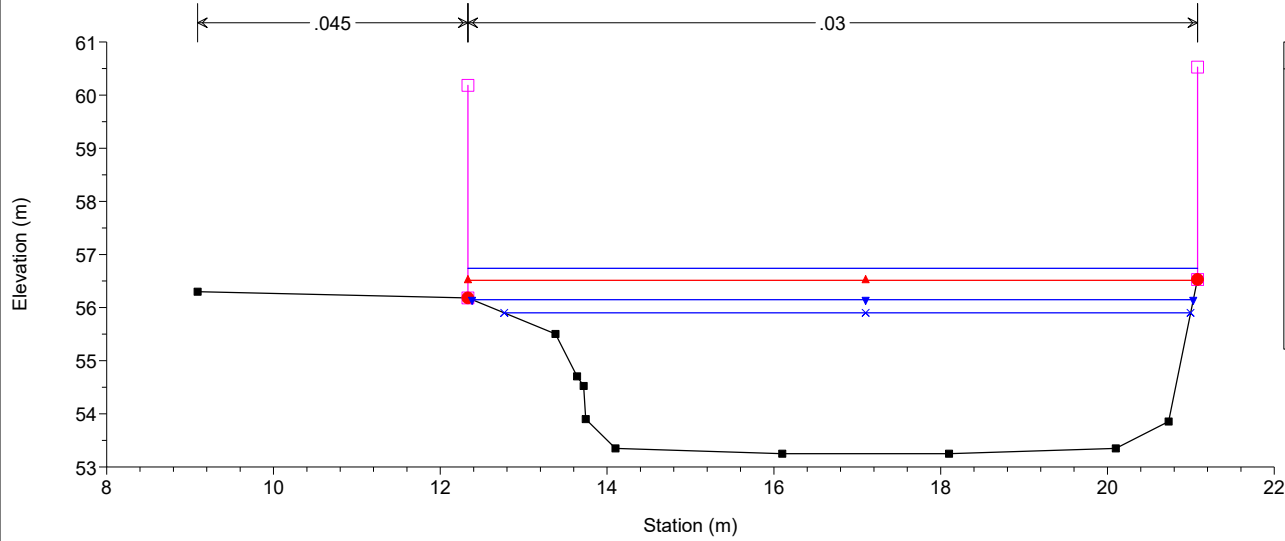


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	
WS Max WS - Pro_II_TP3h_TR30	
Ground	
Levee	
Bank Sta	

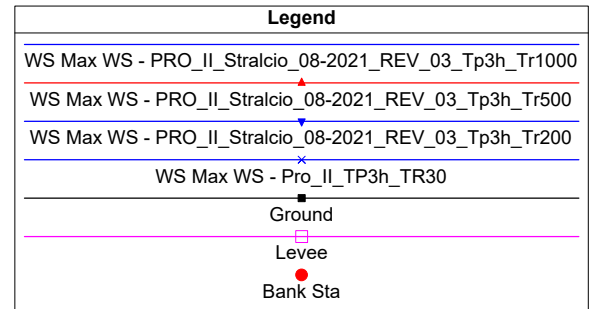
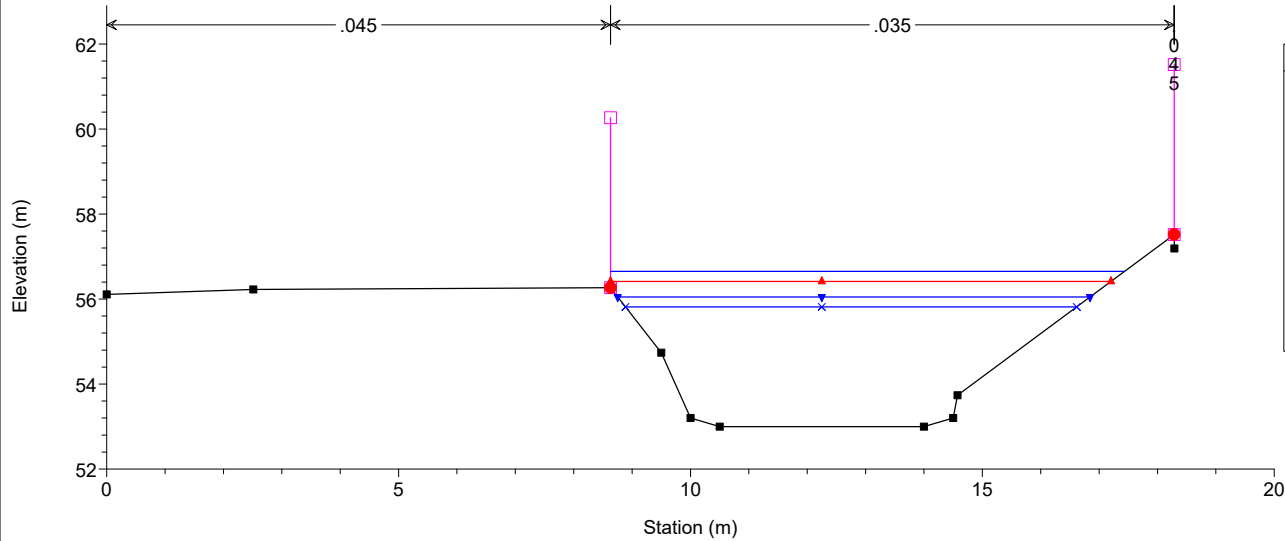


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	
WS Max WS - Pro_II_TP3h_TR30	
Ground	
Levee	
Bank Sta	

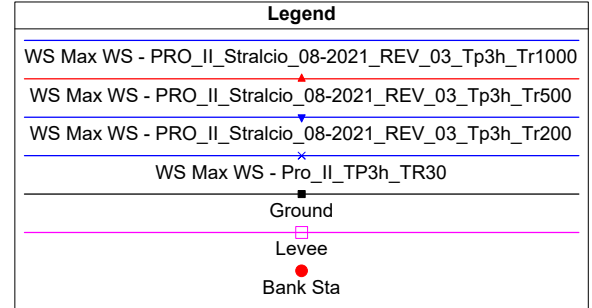
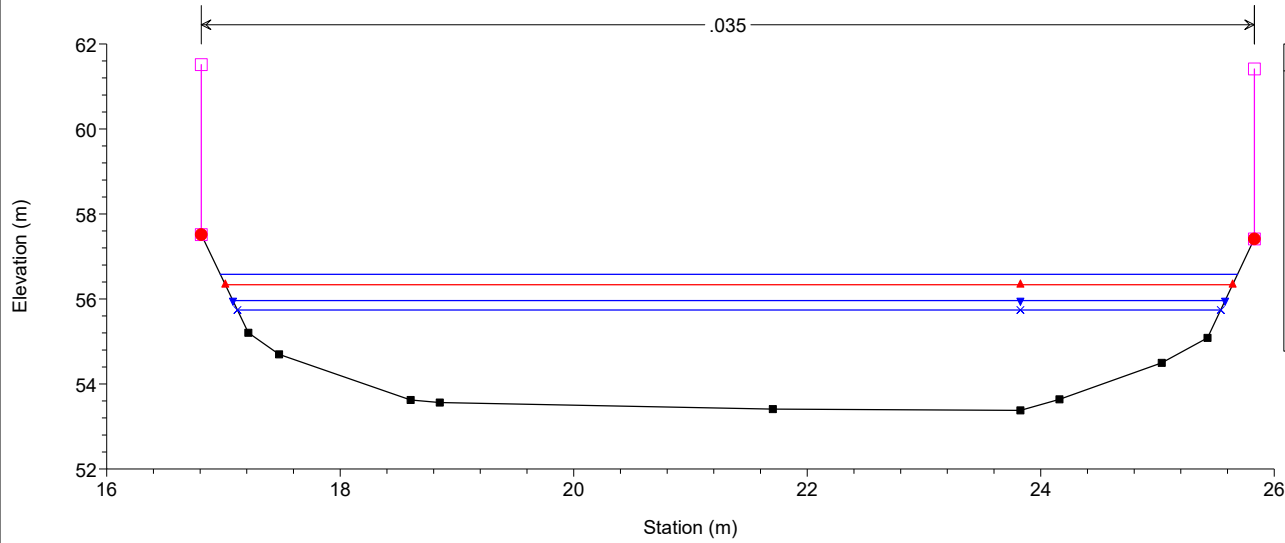
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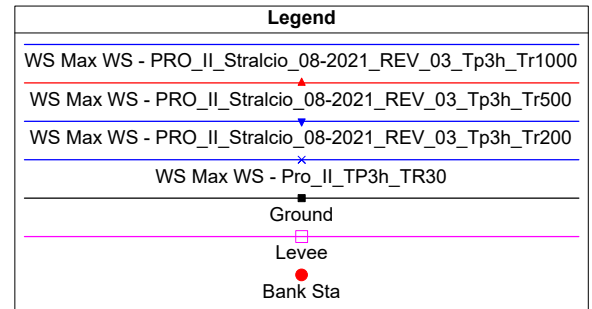
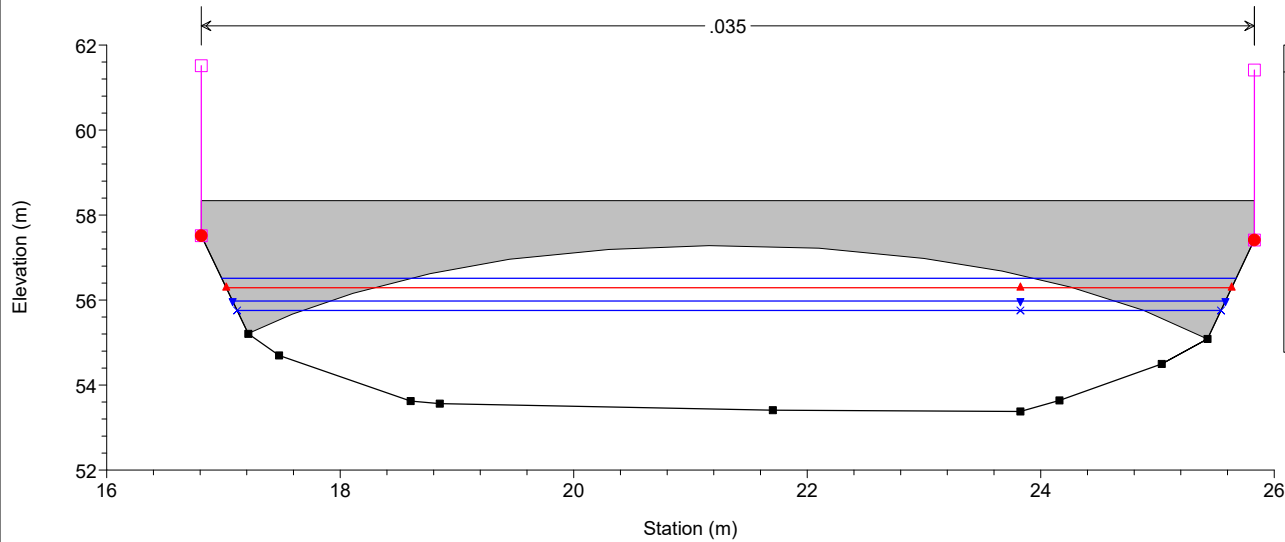
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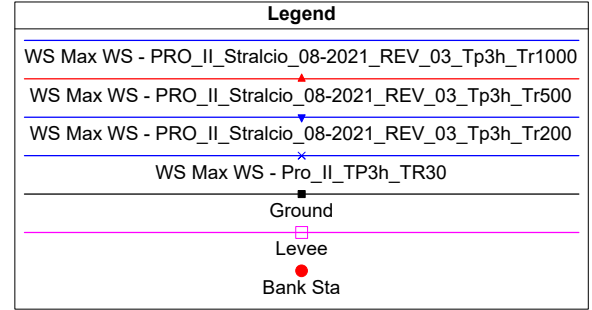
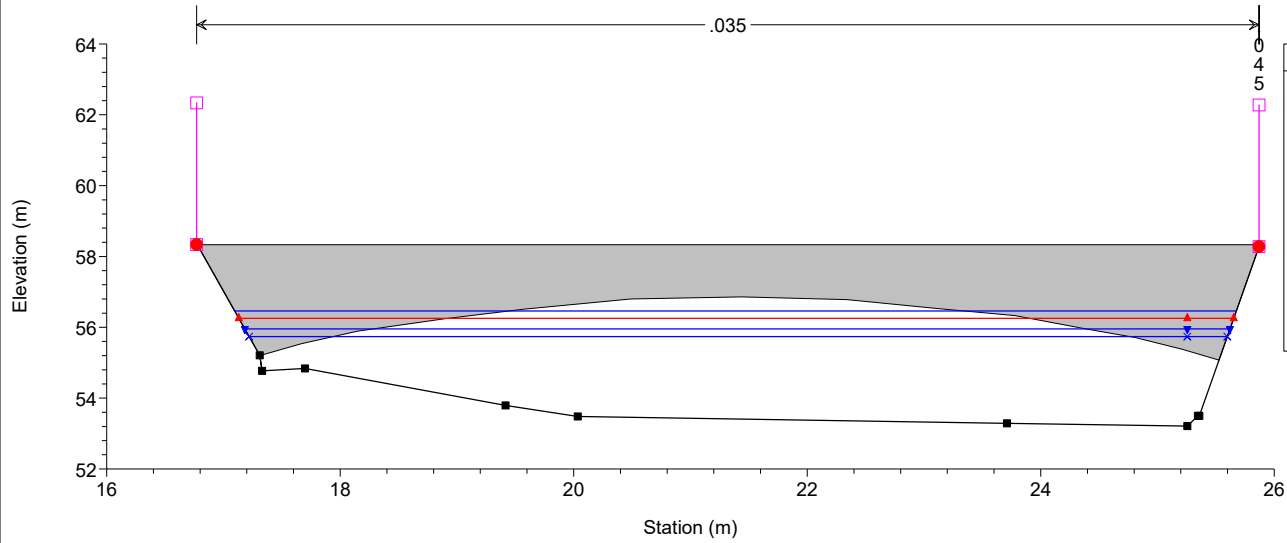
RS = 3.2



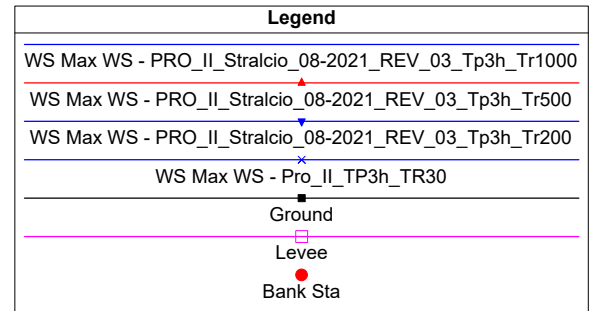
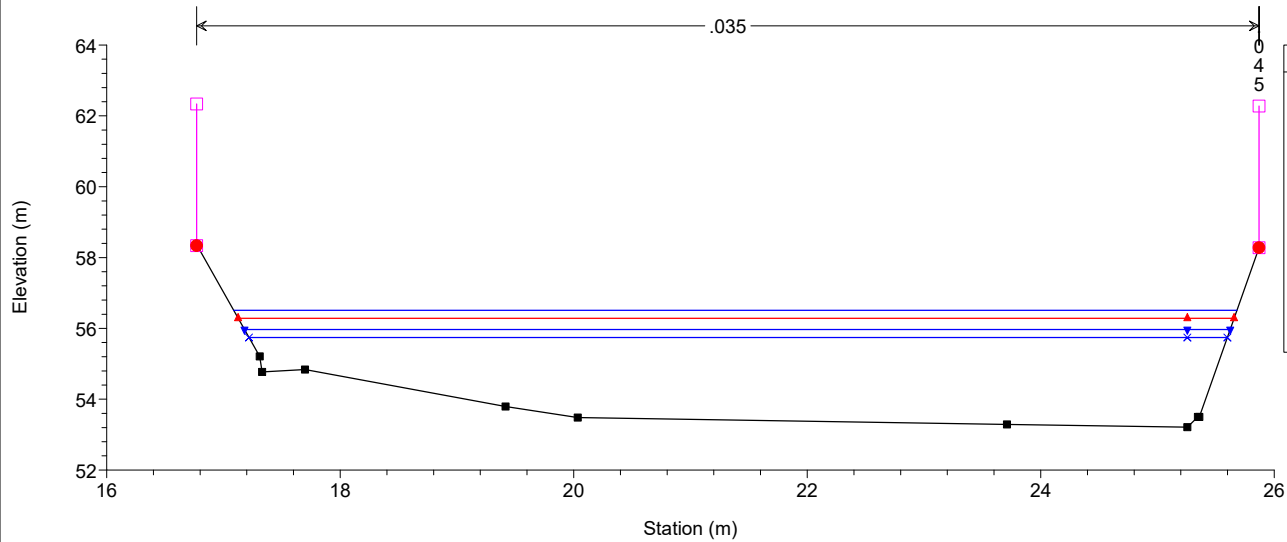
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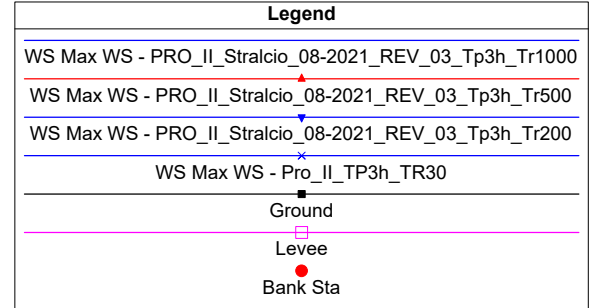
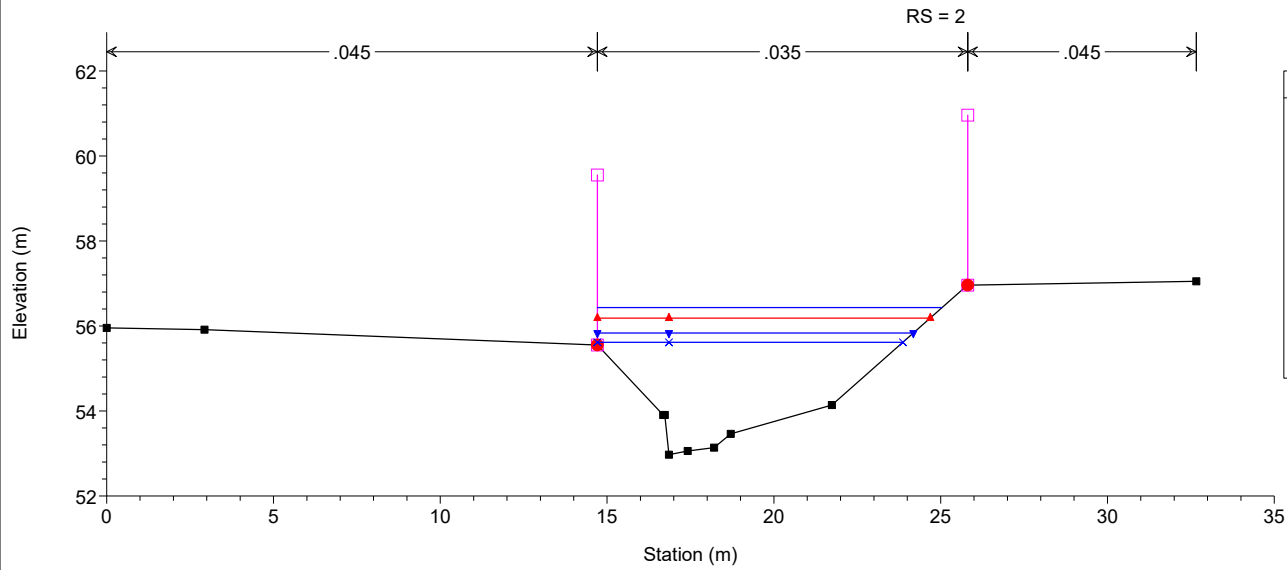
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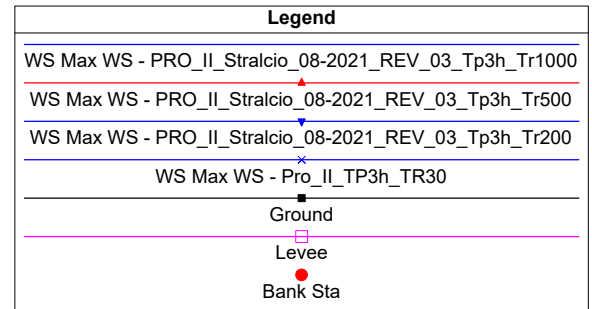
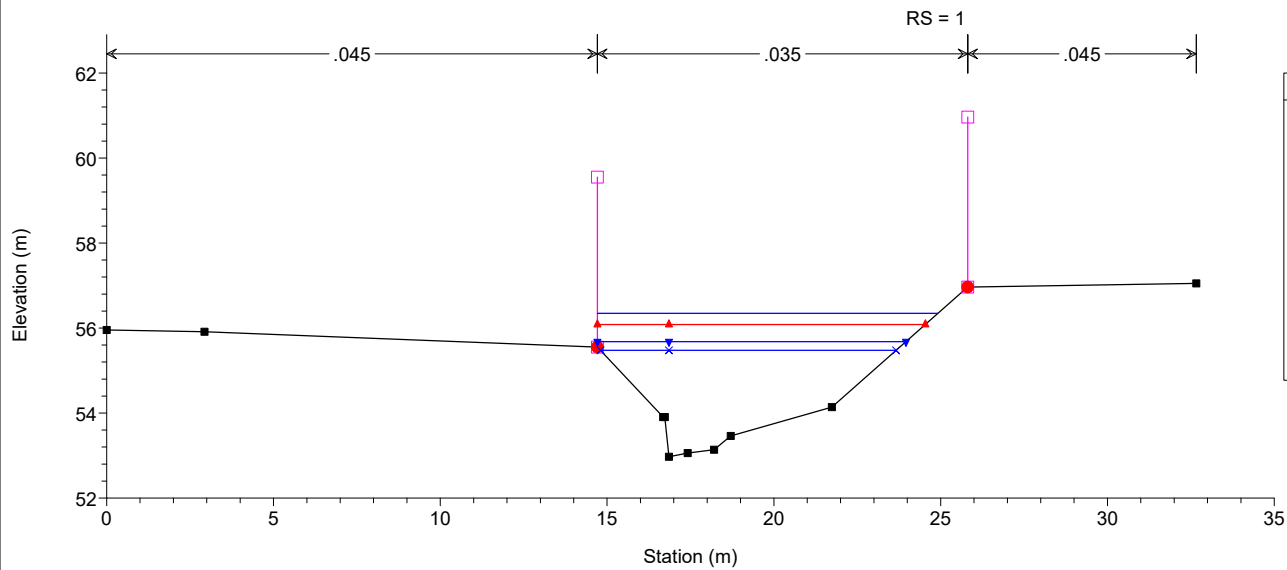
RS = 3.1



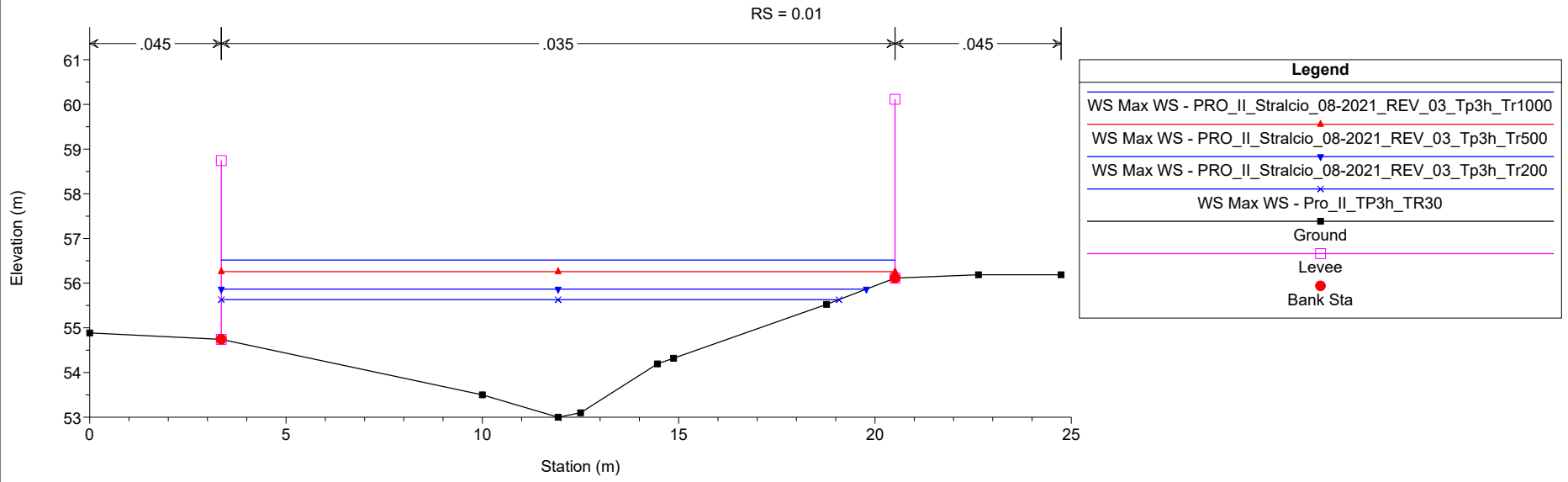
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp3h\_Tr200 8/27/2021 4) Pro\_II\_TP3h\_TR30 1/30/2023







Legend	
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tp3h_Tr1000	▲
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tp3h_Tr500	▼
WS Max WS - PRO_II_Stalacio_08-2021_REV_03_Tp3h_Tr200	×
WS Max WS - Pro_II_TP3h_TR30	■
Ground	—
Levee	□
Bank Sta	●

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS

Reach	River Sta	Profile	Plan	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
Arnese	55	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.80	70.70	75.45		75.47	0.000163	0.80	125.23	88.47	0.14
Arnese	55	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.52	70.70	75.20		75.23	0.000197	0.84	104.16	82.03	0.15
Arnese	55	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	51.09	70.70	74.39		74.46	0.000580	1.20	50.61	42.77	0.24
Arnese	55	Max WS	Pro_II_TP3h_TR30	37.54	70.70	73.75		73.83	0.000866	1.24	30.36	17.05	0.28
Arnese	54	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.87	70.68	75.45		75.46	0.000202	0.77	140.54	88.27	0.12
Arnese	54	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.52	70.68	75.20		75.22	0.000255	0.82	119.35	83.18	0.14
Arnese	54	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	50.67	70.68	74.35		74.43	0.001306	1.58	56.18	65.70	0.29
Arnese	54	Max WS	Pro_II_TP3h_TR30	37.50	70.68	73.26		73.91	0.011796	3.58	10.47	5.56	0.83
Arnese	53	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.86	69.93	75.45		75.46	0.000116	0.63	165.84	86.44	0.09
Arnese	53	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.51	69.93	75.20		75.21	0.000136	0.66	145.03	82.18	0.10
Arnese	53	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	50.74	69.93	74.36		74.39	0.000463	1.05	82.05	67.66	0.18
Arnese	53	Max WS	Pro_II_TP3h_TR30	37.48	69.93	73.00		73.49	0.007827	3.11	12.48	8.13	0.68
Arnese	52	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.86	69.70	75.45		75.46	0.000062	0.48	201.76	85.15	0.07
Arnese	52	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.51	69.70	75.20		75.21	0.000069	0.48	181.06	82.71	0.07
Arnese	52	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	50.74	69.70	74.36		74.38	0.000190	0.70	115.15	74.45	0.12
Arnese	52	Max WS	Pro_II_TP3h_TR30	37.23	69.70	72.76	72.31	73.14	0.007110	2.88	17.53	36.70	0.65
Arnese	51	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.85	69.37	75.45		75.45	0.000040	0.39	235.00	87.75	0.05
Arnese	51	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.50	69.37	75.20		75.21	0.000043	0.39	213.65	85.46	0.06
Arnese	51	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	50.74	69.37	74.36		74.37	0.000101	0.53	145.14	77.66	0.08
Arnese	51	Max WS	Pro_II_TP3h_TR30	36.71	69.37	72.50		72.73	0.004908	2.45	22.73	37.37	0.52
Arnese	50	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.84	68.35	75.45		75.45	0.000009	0.24	405.97	116.26	0.03
Arnese	50	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.48	68.35	75.20		75.20	0.000009	0.23	377.51	114.58	0.03
Arnese	50	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	50.73	68.35	74.36		74.36	0.000016	0.28	283.57	108.85	0.04
Arnese	50	Max WS	Pro_II_TP3h_TR30	36.48	68.35	72.36		72.38	0.000254	0.77	83.45	85.14	0.14
Arnese	49.5	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.84	68.17	75.45		75.45	0.000005	0.17	534.17	148.63	0.02
Arnese	49.5	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.47	68.17	75.20		75.20	0.000005	0.17	497.72	146.66	0.02
Arnese	49.5	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	50.73	68.17	74.36		74.36	0.000009	0.20	377.20	139.97	0.03
Arnese	49.5	Max WS	Pro_II_TP3h_TR30	36.48	68.17	72.37		72.37	0.000076	0.40	136.18	94.87	0.08
Arnese	49.4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	64.83	68.00	75.43	70.50	75.47	0.000124	0.88	118.93	136.45	0.12
Arnese	49.4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	58.46	68.00	75.19	70.50	75.23	0.000139	0.90	85.29	134.04	0.12
Arnese	49.4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	50.72	68.00	74.34	70.32	74.39	0.000192	0.95	53.24	125.86	0.14
Arnese	49.4	Max WS	Pro_II_TP3h_TR30	36.47	68.00	72.32	69.93	72.39	0.000583	1.18	31.01	94.91	0.22
Arnese	49.25			Inl Struct									
Arnese	49.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	57.99	67.80	70.84	70.30	71.22	0.005240	2.83	26.75	39.38	0.62
Arnese	49.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	52.42	67.80	70.74	70.17	71.12	0.005320	2.79	23.11	34.62	0.62
Arnese	49.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	49.97	67.80	70.53	70.11	71.03	0.007395	3.12	16.93	24.29	0.72
Arnese	49.1	Max WS	Pro_II_TP3h_TR30	36.47	67.80	70.28		70.63	0.005974	2.64	13.83	7.96	0.64

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	49	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	56.18	67.74	70.78	70.97	71.36	0.009937	3.65	22.36	38.69	0.79
Arnese	49	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	51.29	67.74	70.68	70.91	71.32	0.010890	3.73	18.66	33.96	0.83
Arnese	49	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	47.46	67.74	70.44	70.29	71.39	0.016562	4.33	11.88	21.81	1.01
Arnese	49	Max WS	Pro_II_TP3h_TR30	35.64	67.74	70.20		70.92	0.014213	3.77	9.46	5.66	0.93
Arnese	48	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	53.02	67.42	70.57		70.60	0.000503	1.00	90.30	86.54	0.20
Arnese	48	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.39	67.42	70.44		70.47	0.000604	1.07	79.12	86.49	0.22
Arnese	48	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	39.74	67.42	70.09		70.16	0.001350	1.48	48.56	86.34	0.32
Arnese	48	Max WS	Pro_II_TP3h_TR30	36.46	67.42	69.82		70.00	0.002922	2.03	27.46	65.58	0.47
Arnese	47	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.94	66.62	70.55		70.56	0.000224	0.69	126.01	93.70	0.12
Arnese	47	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.21	66.62	70.42		70.43	0.000256	0.72	113.69	93.51	0.13
Arnese	47	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.94	66.62	70.05		70.07	0.000497	0.92	79.26	93.01	0.17
Arnese	47	Max WS	Pro_II_TP3h_TR30	35.97	66.62	69.08	69.15	69.96	0.018064	4.20	9.38	11.04	0.99
Arnese	46	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.90	65.96	70.55		70.55	0.000015	0.25	345.00	155.00	0.04
Arnese	46	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.10	65.96	70.42		70.42	0.000015	0.25	324.40	155.00	0.04
Arnese	46	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.71	65.96	70.04		70.04	0.000019	0.25	265.96	155.00	0.04
Arnese	46	Max WS	Pro_II_TP3h_TR30	30.95	65.96	68.37		68.41	0.000937	1.14	52.62	99.64	0.28
Arnese	45	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.89	65.39	70.55		70.55	0.000009	0.20	392.21	141.26	0.03
Arnese	45	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.09	65.39	70.42		70.42	0.000009	0.19	373.51	140.92	0.03
Arnese	45	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.69	65.39	70.04		70.04	0.000009	0.19	320.51	139.95	0.03
Arnese	45	Max WS	Pro_II_TP3h_TR30	30.83	65.39	68.36		68.37	0.000193	0.60	97.16	120.37	0.13
Arnese	44	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.88	64.35	70.55		70.55	0.000002	0.09	740.57	215.00	0.01
Arnese	44	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.09	64.35	70.42		70.42	0.000002	0.08	712.00	215.00	0.01
Arnese	44	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.67	64.35	70.04		70.04	0.000002	0.08	630.93	215.00	0.01
Arnese	44	Max WS	Pro_II_TP3h_TR30	30.78	64.35	68.36		68.36	0.000012	0.15	295.21	189.16	0.03
Arnese	43.5	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.87	64.18	70.55		70.55	0.000001	0.08	940.25	285.38	0.01
Arnese	43.5	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.08	64.18	70.42		70.42	0.000001	0.07	902.41	285.38	0.01
Arnese	43.5	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.64	64.18	70.04		70.04	0.000001	0.07	794.73	285.38	0.01
Arnese	43.5	Max WS	Pro_II_TP3h_TR30	30.77	64.18	68.36		68.36	0.000009	0.14	354.41	239.34	0.02
Arnese	43	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.87	64.04	70.55		70.55	0.000001	0.07	1081.13	350.00	0.01
Arnese	43	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.07	64.04	70.42		70.42	0.000001	0.07	1034.72	350.00	0.01
Arnese	43	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	64.04	70.04		70.04	0.000001	0.06	902.65	350.00	0.01
Arnese	43	Max WS	Pro_II_TP3h_TR30	30.78	64.04	68.36		68.36	0.000006	0.12	400.62	245.36	0.02
Arnese	42.7	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.87	63.90	70.55		70.55	0.000001	0.09	869.31	255.00	0.01
Arnese	42.7	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.07	63.90	70.42		70.42	0.000001	0.08	835.42	255.00	0.01
Arnese	42.7	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	63.90	70.04		70.04	0.000001	0.08	739.27	255.00	0.01
Arnese	42.7	Max WS	Pro_II_TP3h_TR30	30.77	63.90	68.36		68.36	0.000008	0.15	345.66	212.74	0.02

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	42.4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	63.80	70.53	66.00	70.56	0.000126	0.88	150.29	215.00	0.11
Arnese	42.4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.07	63.80	70.40	66.00	70.44	0.000144	0.93	122.25	215.00	0.12
Arnese	42.4	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	63.80	70.03	65.92	70.09	0.000204	1.06	41.90	215.00	0.14
Arnese	42.4	Max WS	Pro_II_TP3h_TR30	30.77	63.80	68.34	65.67	68.41	0.000427	1.22	25.30	181.10	0.20
Arnese	42.3			Inl Struct									
Arnese	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	63.65	66.03	65.65	66.43	0.006227	2.97	25.99	59.06	0.72
Arnese	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	63.65	65.95	65.65	66.38	0.006786	3.00	21.39	51.40	0.75
Arnese	42	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	63.65	65.76	65.53	66.20	0.007851	2.97	13.79	26.04	0.79
Arnese	42	Max WS	Pro_II_TP3h_TR30	30.77	63.65	65.55		65.94	0.007989	2.77	11.12	8.70	0.78
Arnese	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	63.15	65.70		66.35	0.010562	3.55	14.89	9.66	0.91
Arnese	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	63.15	65.61		66.21	0.010354	3.44	13.98	9.37	0.90
Arnese	41	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	63.15	65.38		65.92	0.010176	3.23	11.95	8.70	0.88
Arnese	41	Max WS	Pro_II_TP3h_TR30	30.77	63.15	65.16		65.64	0.010110	3.05	10.10	8.04	0.87
Arnese	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	62.90	65.42	65.34	66.04	0.010278	3.54	16.61	21.93	0.90
Arnese	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	62.90	65.32	65.24	65.93	0.010765	3.48	14.70	17.21	0.92
Arnese	40	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	62.90	65.09		65.66	0.011113	3.34	11.56	8.56	0.92
Arnese	40	Max WS	Pro_II_TP3h_TR30	30.77	62.90	64.87		65.38	0.011156	3.16	9.74	7.90	0.91
Arnese	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	62.60	65.14		65.79	0.010909	3.59	14.72	9.61	0.93
Arnese	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	62.60	65.03		65.66	0.010866	3.50	13.72	9.29	0.92
Arnese	39	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	62.60	64.80		65.36	0.010782	3.30	11.69	8.61	0.91
Arnese	39	Max WS	Pro_II_TP3h_TR30	30.77	62.60	64.58		65.08	0.010872	3.13	9.83	7.94	0.90
Arnese	38.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	62.35	64.92		65.55	0.010235	3.51	15.07	9.72	0.90
Arnese	38.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	62.35	64.82		65.41	0.010115	3.41	14.10	9.41	0.89
Arnese	38.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	62.35	64.60		65.12	0.009845	3.19	12.09	8.75	0.87
Arnese	38.2	Max WS	Pro_II_TP3h_TR30	30.77	62.35	64.38		64.84	0.009846	3.02	10.20	8.08	0.86
Arnese	38.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	62.30	64.83		65.49	0.011045	3.61	14.65	9.59	0.93
Arnese	38.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	62.30	64.73		65.36	0.010946	3.51	13.69	9.28	0.92
Arnese	38.1	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	62.30	64.51		65.06	0.010720	3.30	11.71	8.62	0.90
Arnese	38.1	Max WS	Pro_II_TP3h_TR30	30.77	62.30	64.28		64.78	0.010845	3.13	9.84	7.94	0.90
Arnese	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	62.00	64.66		65.22	0.008787	3.31	15.96	9.99	0.84
Arnese	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	62.00	64.57		65.09	0.008524	3.20	15.03	9.70	0.82
Arnese	37	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	62.00	64.37		64.81	0.007897	2.94	13.13	9.10	0.78
Arnese	37	Max WS	Pro_II_TP3h_TR30	30.77	62.00	64.14		64.53	0.007718	2.75	11.17	8.43	0.76
Arnese	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.86	61.85	64.63		65.12	0.007194	3.07	17.20	10.35	0.76
Arnese	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.06	61.85	64.55		64.99	0.006876	2.95	16.29	10.09	0.74
Arnese	36	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.63	61.85	64.35		64.72	0.006165	2.68	14.41	9.51	0.70
Arnese	36	Max WS	Pro_II_TP3h_TR30	30.77	61.85	64.13		64.45	0.005869	2.49	12.38	8.85	0.67

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	35	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	52.86	61.80	64.57		65.06	0.007347	3.10	17.06	10.31	0.77
Arnese	35	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.06	61.80	64.49		64.94	0.006977	2.97	16.20	10.06	0.75
Arnese	35	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.63	61.80	64.30		64.67	0.006148	2.68	14.42	9.51	0.69
Arnese	35	Max WS	Pro_II_TP3h_TR30	30.77	61.80	64.09		64.40	0.005811	2.48	12.42	8.86	0.67
Arnese	34.2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	52.85	61.72	64.50		64.98	0.007296	3.09	17.11	10.33	0.77
Arnese	34.2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.06	61.72	64.42		64.86	0.006849	2.95	16.31	10.09	0.74
Arnese	34.2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.63	61.72	64.25		64.60	0.005875	2.63	14.67	9.59	0.68
Arnese	34.2	Max WS	Pro_II_TP3h_TR30	30.77	61.72	64.04		64.34	0.005472	2.42	12.71	8.96	0.65
Arnese	34.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	52.85	61.70	64.45		64.95	0.007633	3.14	16.82	10.24	0.78
Arnese	34.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.06	61.70	64.37		64.83	0.007123	2.99	16.07	10.02	0.75
Arnese	34.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.63	61.70	64.22		64.58	0.006036	2.66	14.52	9.55	0.69
Arnese	34.1	Max WS	Pro_II_TP3h_TR30	30.77	61.70	64.01		64.31	0.005596	2.44	12.60	8.92	0.66
Arnese	33	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	52.85	61.60	64.22	64.30	64.61	0.006844	2.97	25.01	47.69	0.74
Arnese	33	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.06	61.60	64.15	63.94	64.59	0.007486	3.03	19.69	35.78	0.77
Arnese	33	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.63	61.60	63.99		64.42	0.007497	2.88	13.39	9.18	0.76
Arnese	33	Max WS	Pro_II_TP3h_TR30	30.77	61.60	63.81		64.16	0.006735	2.62	11.76	8.63	0.72
Arnese	32	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	52.85	61.50	64.05	64.19	64.56	0.007436	3.32	21.96	44.73	0.79
Arnese	32	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.05	61.50	63.98	63.74	64.49	0.007639	3.27	18.81	39.65	0.80
Arnese	32	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.62	61.50	63.82	63.50	64.28	0.007543	3.05	13.69	22.05	0.78
Arnese	32	Max WS	Pro_II_TP3h_TR30	30.77	61.50	63.60		64.01	0.007934	2.84	10.93	9.75	0.78
Arnese	31	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	52.75	60.85	63.65		63.78	0.002637	1.61	34.42	39.00	0.47
Arnese	31	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.04	60.85	63.54		63.68	0.002995	1.63	30.35	38.84	0.49
Arnese	31	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.62	60.85	63.33		63.46	0.003518	1.61	23.96	24.65	0.52
Arnese	31	Max WS	Pro_II_TP3h_TR30	30.77	60.85	63.10		63.24	0.004264	1.65	18.59	21.17	0.56
Arnese	30	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	53.04	60.30	62.96		63.53	0.008886	3.33	15.93	9.98	0.84
Arnese	30	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.04	60.30	62.85		63.38	0.008761	3.23	14.87	9.66	0.83
Arnese	30	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.62	60.30	62.61		63.09	0.008716	3.05	12.65	8.94	0.82
Arnese	30	Max WS	Pro_II_TP3h_TR30	30.77	60.30	62.38		62.81	0.008702	2.88	10.68	8.25	0.81
Arnese	29	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	53.00	59.80	62.45	62.26	63.01	0.008381	3.31	16.99	18.80	0.82
Arnese	29	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.04	59.80	62.35	62.13	62.88	0.008409	3.22	15.31	15.04	0.82
Arnese	29	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.62	59.80	62.13		62.59	0.008513	3.02	12.77	8.98	0.81
Arnese	29	Max WS	Pro_II_TP3h_TR30	30.76	59.80	61.90		62.31	0.008438	2.85	10.81	8.30	0.80
Arnese	28	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr1000	52.97	59.10	61.63		62.30	0.011115	3.62	14.64	9.58	0.94
Arnese	28	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr500	48.04	59.10	61.53		62.16	0.010868	3.50	13.72	9.29	0.92
Arnese	28	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp3h_Tr200	38.62	59.10	61.32		61.86	0.010348	3.25	11.87	8.67	0.89
Arnese	28	Max WS	Pro_II_TP3h_TR30	30.76	59.10	61.12		61.59	0.009991	3.03	10.15	8.06	0.86

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	27	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.97	58.95	61.33	61.36	62.15	0.014105	4.01	13.22	8.60	1.03
Arnese	27	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.04	58.95	61.24	61.27	62.00	0.014010	3.88	12.40	8.60	1.03
Arnese	27	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.62	58.95	61.03	61.05	61.70	0.013761	3.62	10.67	8.25	1.02
Arnese	27	Max WS	Pro_II_TP3h_TR30	30.76	58.95	60.83	60.82	61.42	0.013607	3.40	9.04	7.63	1.00
Arnese	26	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.96	58.60	60.72	61.03	61.91	0.016413	4.83	11.11	8.67	1.31
Arnese	26	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.04	58.60	60.62	60.92	61.77	0.017121	4.75	10.20	8.51	1.33
Arnese	26	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.62	58.60	60.39	60.70	61.47	0.019123	4.59	8.41	7.38	1.37
Arnese	26	Max WS	Pro_II_TP3h_TR30	30.76	58.60	60.17	60.47	61.20	0.021325	4.51	6.82	6.70	1.43
Arnese	25	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.95	58.20	60.53		61.15	0.007535	3.50	15.15	9.99	0.91
Arnese	25	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.04	58.20	60.42		61.02	0.007567	3.41	14.07	9.67	0.90
Arnese	25	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.62	58.20	60.19		60.73	0.007683	3.24	11.90	8.97	0.90
Arnese	25	Max WS	Pro_II_TP3h_TR30	30.76	58.20	59.94		60.45	0.008271	3.14	9.80	8.23	0.92
Arnese	24	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.94	58.00	60.59		61.05	0.004528	3.01	17.78	10.69	0.71
Arnese	24	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.04	58.00	60.47		60.90	0.004580	2.92	16.56	10.36	0.71
Arnese	24	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.62	58.00	60.23		60.61	0.004754	2.73	14.17	9.69	0.72
Arnese	24	Max WS	Pro_II_TP3h_TR30	30.76	58.00	59.96		60.32	0.005188	2.64	11.63	8.88	0.74
Arnese	23	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.94	57.80	60.69		60.96	0.003079	2.41	25.85	22.16	0.53
Arnese	23	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.03	57.80	60.54		60.83	0.003394	2.41	22.67	22.16	0.55
Arnese	23	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.61	57.80	60.26		60.54	0.003911	2.34	17.20	16.02	0.57
Arnese	23	Max WS	Pro_II_TP3h_TR30	30.76	57.80	60.00		60.25	0.004417	2.22	13.84	9.59	0.59
Arnese	22	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.94	57.60	60.60		60.89	0.003455	2.37	22.34	11.10	0.53
Arnese	22	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.03	57.60	60.48		60.74	0.003422	2.29	20.98	11.10	0.53
Arnese	22	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.62	57.60	60.22		60.45	0.003366	2.13	18.11	10.82	0.53
Arnese	22	Max WS	Pro_II_TP3h_TR30	30.76	57.60	59.96		60.16	0.003315	2.00	15.39	10.07	0.52
Arnese	21	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.93	57.06	60.06		60.59	0.006086	3.31	17.58	11.37	0.69
Arnese	21	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.03	57.06	59.95		60.44	0.005984	3.18	16.37	10.72	0.68
Arnese	21	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.61	57.06	59.70		60.13	0.005867	2.92	13.93	9.27	0.66
Arnese	21	Max WS	Pro_II_TP3h_TR30	30.76	57.06	59.47		59.83	0.005648	2.65	11.95	8.03	0.63
Arnese	20	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.92	56.71	59.79		60.15	0.003554	2.78	21.61	12.58	0.56
Arnese	20	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.03	56.71	59.68		60.02	0.003470	2.67	20.23	12.49	0.55
Arnese	20	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.20	56.71	59.44		59.72	0.003218	2.40	17.39	11.60	0.52
Arnese	20	Max WS	Pro_II_TP3h_TR30	30.76	56.71	59.22		59.46	0.003094	2.19	14.90	10.64	0.50
Arnese	19	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.91	57.00	59.29	59.55	60.44	0.019297	4.76	11.26	7.86	1.19
Arnese	19	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr500	48.03	57.00	59.18	59.42	60.28	0.019729	4.64	10.42	7.45	1.20
Arnese	19	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr200	38.61	57.00	58.94	59.15	59.94	0.021304	4.42	8.73	6.59	1.23
Arnese	19	Max WS	Pro_II_TP3h_TR30	30.76	57.00	58.69	58.92	59.64	0.023578	4.31	7.14	6.15	1.28
Arnese	18.2	Max WS	PRO_II_Stalcio_08-2021_REV_03_Tp3h_Tr1000	52.91	55.88	58.94		59.46	0.007032	3.19	16.57	7.39	0.67

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	48.03	55.88	58.86		59.32	0.006395	3.00	15.99	7.08	0.64
Arnese	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.61	55.88	58.66		59.02	0.005279	2.64	14.60	6.87	0.58
Arnese	18.2	Max WS	Pro_II_TP3h_TR30	30.22	55.88	58.42		58.69	0.004470	2.33	12.96	6.60	0.53
Arnese	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.91	56.07	58.97		59.39	0.005359	2.87	18.47	8.64	0.63
Arnese	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	48.03	56.07	58.89		59.27	0.004860	2.69	17.82	8.53	0.60
Arnese	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.61	56.07	58.68		58.98	0.004189	2.41	16.04	8.21	0.55
Arnese	18.1	Max WS	Pro_II_TP3h_TR30	30.22	56.07	58.42		58.66	0.003750	2.16	13.96	7.82	0.52
Arnese	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.91	55.69	58.65	58.57	59.28	0.009431	3.60	16.14	11.67	0.80
Arnese	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	48.03	55.69	58.58		59.16	0.008891	3.43	15.25	11.64	0.77
Arnese	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.61	55.69	58.37	58.03	58.87	0.008365	3.15	12.89	11.55	0.74
Arnese	17	Max WS	Pro_II_TP3h_TR30	30.76	55.69	58.13		58.56	0.008349	2.93	10.50	6.49	0.74
Arnese	16.9												
			Lat Struct										
Arnese	16.8												
			Lat Struct										
Arnese	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.92	55.29	58.47		59.20	0.012095	3.77	13.26	6.52	0.84
Arnese	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	46.07	55.29	58.40		59.06	0.011435	3.61	12.77	6.51	0.82
Arnese	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.44	55.29	58.19		58.77	0.010773	3.36	11.44	6.38	0.80
Arnese	16	Max WS	Pro_II_TP3h_TR30	30.76	55.29	57.96		58.44	0.009888	3.08	9.98	6.01	0.76
Arnese	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.61	55.18	58.34		59.07	0.011449	3.80	13.07	6.15	0.83
Arnese	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	45.96	55.18	58.27		58.94	0.010741	3.64	12.64	6.07	0.80
Arnese	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.44	55.18	58.08		58.65	0.009562	3.33	11.53	5.85	0.76
Arnese	15	Max WS	Pro_II_TP3h_TR30	30.76	55.18	57.88		58.33	0.008112	2.97	10.37	5.60	0.70
Arnese	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.18	55.23	58.26		58.61	0.004106	2.66	19.95	13.17	0.57
Arnese	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	45.64	55.23	58.23		58.54	0.003739	2.52	19.48	13.17	0.54
Arnese	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.44	55.23	58.06		58.33	0.003449	2.32	17.38	12.02	0.52
Arnese	14	Max WS	Pro_II_TP3h_TR30	30.76	55.23	57.86		58.08	0.003077	2.08	15.13	10.34	0.48
Arnese	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	45.47	54.76	57.69	57.68	58.41	0.011693	3.84	13.10	11.47	0.84
Arnese	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	43.71	54.76	57.63	57.62	58.35	0.011984	3.83	12.45	10.52	0.85
Arnese	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.44	54.76	57.37	57.35	58.15	0.014362	3.94	10.07	7.90	0.92
Arnese	13	Max WS	Pro_II_TP3h_TR30	30.76	54.76	57.03	56.99	57.79	0.016578	3.87	7.96	4.93	0.97
Arnese	12	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	44.49	54.23	57.45		57.81	0.005085	2.68	18.18	18.18	0.57
Arnese	12	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	43.69	54.23	57.38		57.76	0.005553	2.76	16.87	15.76	0.59
Arnese	12	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.43	54.23	57.17		57.54	0.005888	2.70	14.31	9.35	0.60
Arnese	12	Max WS	Pro_II_TP3h_TR30	30.76	54.23	56.88		57.20	0.005606	2.50	12.28	6.51	0.58
Arnese	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	42.56	54.15	57.45		57.67	0.002701	2.12	24.36	30.05	0.46
Arnese	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	42.47	54.15	57.35		57.60	0.003317	2.28	21.38	24.83	0.51
Arnese	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.43	54.15	57.09		57.39	0.004275	2.41	16.68	13.14	0.58

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

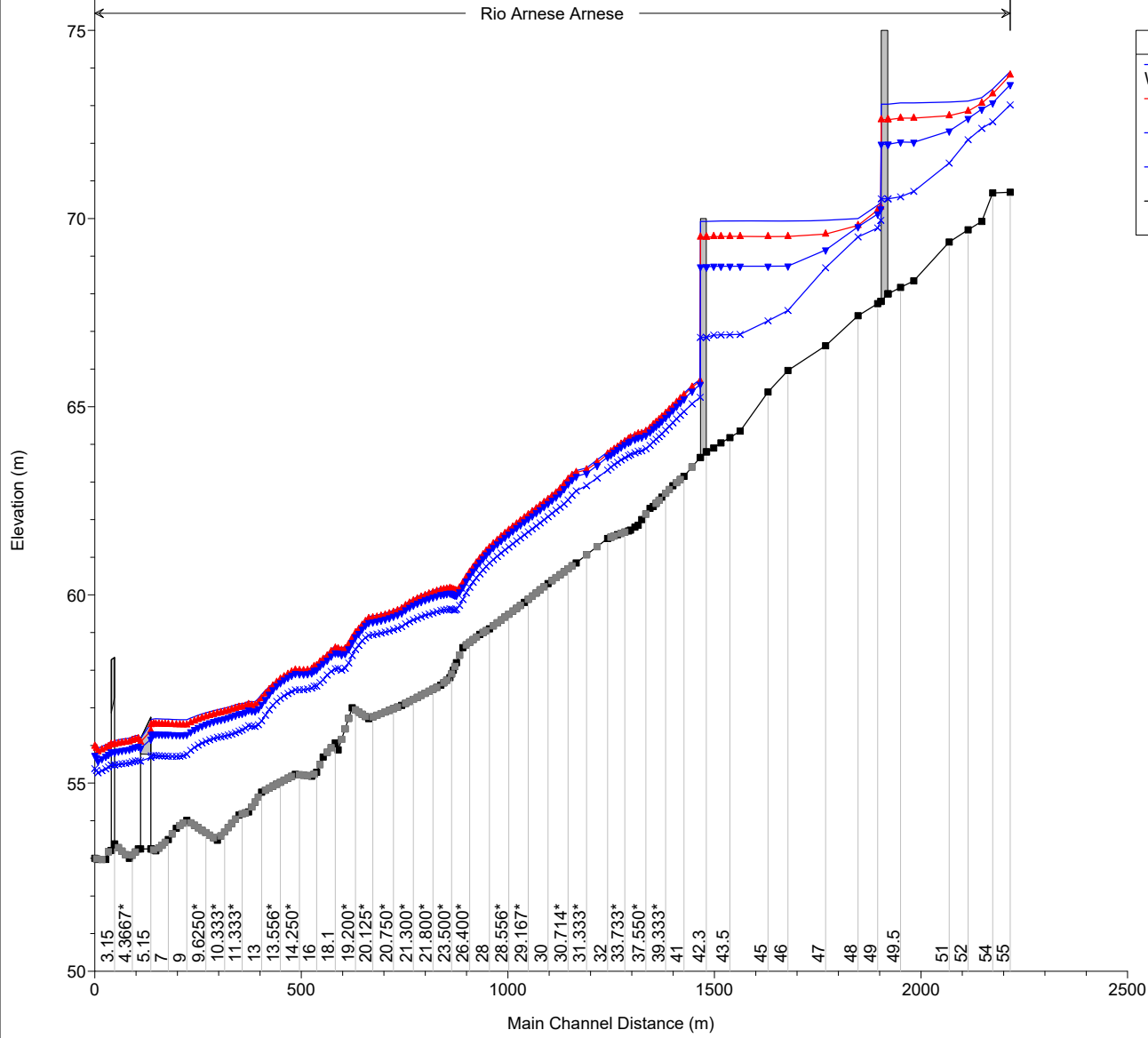
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Arnese	11	Max WS	Pro_II_TP3h_TR30	30.76	54.15	56.78		57.06	0.005076	2.37	13.04	9.80	0.61
Arnese	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	41.83	53.48	57.35		57.53	0.002304	1.94	23.50	19.03	0.41
Arnese	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	42.44	53.48	57.20		57.43	0.002925	2.12	21.08	15.22	0.45
Arnese	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.42	53.48	56.92		57.17	0.003630	2.22	17.44	10.55	0.50
Arnese	10	Max WS	Pro_II_TP3h_TR30	30.75	53.48	56.60		56.82	0.003681	2.10	14.67	7.92	0.49
Arnese	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	41.35	54.01	57.21		57.37	0.002093	1.76	23.55	14.59	0.41
Arnese	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	42.14	54.01	57.00		57.21	0.003108	2.03	20.80	12.39	0.50
Arnese	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.41	54.01	56.59		56.88	0.004853	2.38	16.14	10.41	0.61
Arnese	9	Max WS	Pro_II_TP3h_TR30	30.75	54.01	56.19		56.51	0.006410	2.50	12.28	9.01	0.68
Arnese	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	41.90	53.80	57.22		57.34	0.001170	1.52	28.27	17.08	0.32
Arnese	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	42.30	53.80	57.01		57.15	0.001624	1.69	25.09	13.04	0.37
Arnese	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.41	53.80	56.59		56.78	0.002521	1.91	20.10	11.38	0.46
Arnese	8	Max WS	Pro_II_TP3h_TR30	30.74	53.80	56.18		56.38	0.003179	1.97	15.63	10.14	0.51
Arnese	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	43.46	53.50	57.22		57.31	0.000778	1.37	33.80	20.46	0.27
Arnese	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	43.46	53.50	57.01		57.13	0.001049	1.50	29.88	16.90	0.31
Arnese	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.41	53.50	56.61		56.74	0.001548	1.61	23.87	13.48	0.37
Arnese	7	Max WS	Pro_II_TP3h_TR30	30.74	53.50	56.19		56.32	0.001900	1.62	18.92	11.07	0.40
Arnese	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	46.58	53.20	57.22		57.29	0.000532	1.21	44.08	23.71	0.22
Arnese	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	44.53	53.20	57.02		57.10	0.000639	1.26	39.37	23.71	0.24
Arnese	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.41	53.20	56.62		56.70	0.000844	1.32	30.79	19.13	0.27
Arnese	6	Max WS	Pro_II_TP3h_TR30	30.74	53.20	56.20		56.28	0.000934	1.28	23.99	11.00	0.28
Arnese	5.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	52.59	53.25	57.13	54.99	57.26	0.000850	1.60	32.96	9.69	0.28
Arnese	5.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	47.18	53.25	56.96	54.88	57.08	0.000785	1.50	31.37	9.69	0.27
Arnese	5.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.41	53.25	56.60	54.69	56.69	0.000721	1.38	27.85	9.59	0.26
Arnese	5.2	Max WS	Pro_II_TP3h_TR30	30.74	53.25	56.19	54.51	56.27	0.000702	1.28	23.99	9.37	0.26
Arnese	5.15			Bridge									
Arnese	5.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	50.79	53.25	56.74		56.94	0.001489	1.96	25.97	8.75	0.36
Arnese	5.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	46.41	53.25	56.51		56.70	0.001552	1.94	23.97	8.75	0.37
Arnese	5.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.40	53.25	56.15		56.32	0.001576	1.85	20.81	8.65	0.38
Arnese	5.1	Max WS	Pro_II_TP3h_TR30	30.73	53.25	55.90		56.04	0.001332	1.64	18.71	8.23	0.35
Arnese	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	50.34	53.00	56.65		56.89	0.002705	2.18	23.07	8.81	0.43
Arnese	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	46.33	53.00	56.41		56.66	0.002949	2.21	21.00	8.57	0.45
Arnese	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.40	53.00	56.05		56.28	0.003089	2.14	17.95	8.09	0.46
Arnese	4	Max WS	Pro_II_TP3h_TR30	30.73	53.00	55.82		56.00	0.002636	1.91	16.13	7.73	0.42
Arnese	3.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	50.33	53.38	56.58	55.30	56.81	0.002362	2.12	23.77	8.71	0.41
Arnese	3.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	45.85	53.38	56.33	55.20	56.56	0.002541	2.12	21.64	8.63	0.43



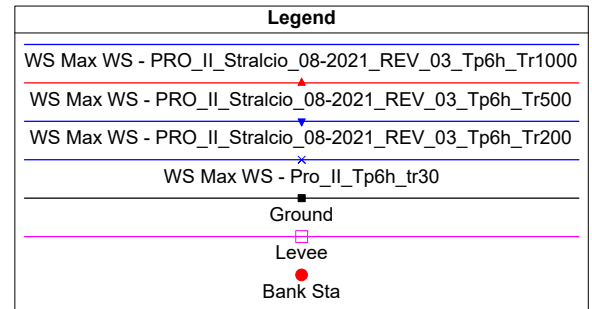
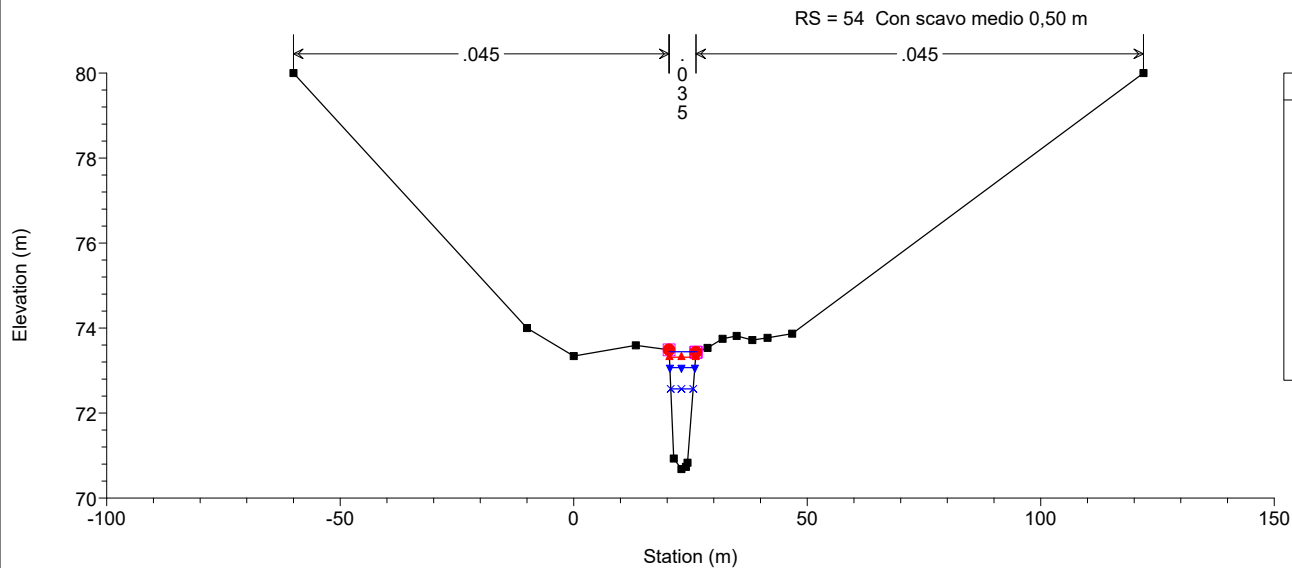
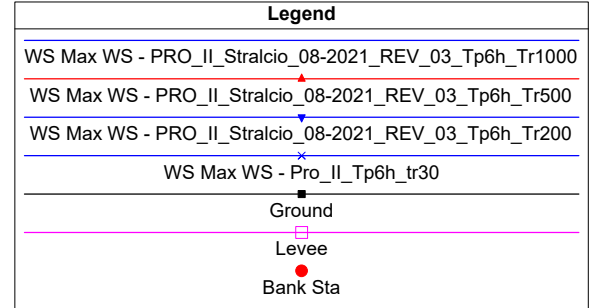
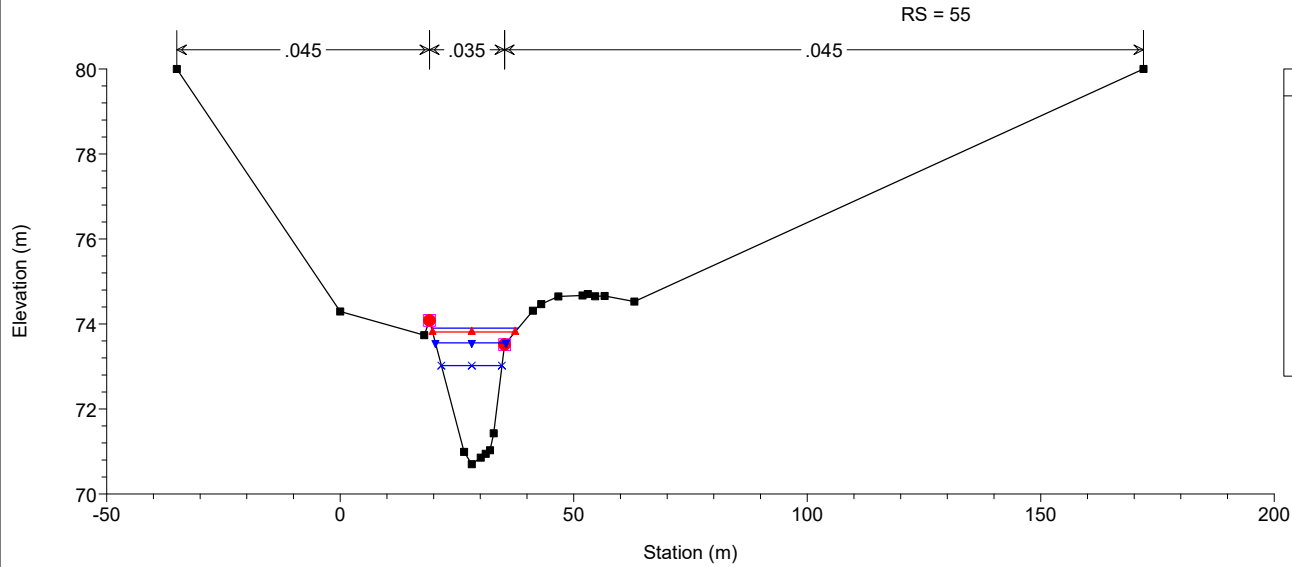
HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	3.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.38	53.38	55.96	55.03	56.18	0.002785	2.08	18.44	8.50	0.45
Arnese	3.2	Max WS	Pro_II_TP3h_TR30	30.72	53.38	55.74	54.83	55.92	0.002408	1.85	16.59	8.42	0.42
Arnese	3.15		Bridge										
Arnese	3.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.67	53.21	56.51		56.74	0.002521	2.10	23.69	8.59	0.40
Arnese	3.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	45.15	53.21	56.29		56.51	0.002643	2.08	21.76	8.53	0.41
Arnese	3.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.39	53.21	55.97		56.18	0.002772	2.01	19.07	8.44	0.43
Arnese	3.1	Max WS	Pro_II_TP3h_TR30	30.72	53.21	55.74		55.91	0.002392	1.79	17.17	8.38	0.40
Arnese	2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.31	52.97	56.43		56.70	0.003346	2.27	21.74	10.33	0.50
Arnese	2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	44.49	52.97	56.19		56.46	0.003827	2.31	19.23	9.98	0.53
Arnese	2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.36	52.97	55.83		56.13	0.004917	2.43	15.82	9.47	0.60
Arnese	2	Max WS	Pro_II_TP3h_TR30	30.68	52.97	55.62		55.87	0.004635	2.22	13.79	9.16	0.58
Arnese	1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.30	52.97	56.35		56.63	0.003750	2.36	20.86	10.21	0.53
Arnese	1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	42.98	52.97	56.08		56.37	0.004143	2.36	18.23	9.83	0.55
Arnese	1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.22	52.97	55.68		56.04	0.006384	2.66	14.39	9.25	0.68
Arnese	1	Max WS	Pro_II_TP3h_TR30	30.54	52.97	55.48		55.78	0.006028	2.44	12.51	8.86	0.66
Arnese	0.01	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr1000	49.49	53.00	56.52		56.60	0.000876	1.30	38.17	17.16	0.28
Arnese	0.01	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr500	44.75	53.00	56.26		56.35	0.001045	1.33	33.73	17.16	0.30
Arnese	0.01	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp3h_Tr200	38.34	53.00	55.87		55.97	0.001447	1.41	27.12	16.43	0.35
Arnese	0.01	Max WS	Pro_II_TP3h_TR30	30.64	53.00	55.63		55.72	0.001417	1.31	23.34	15.73	0.34

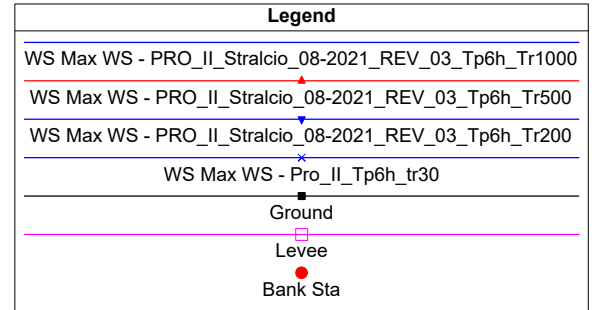
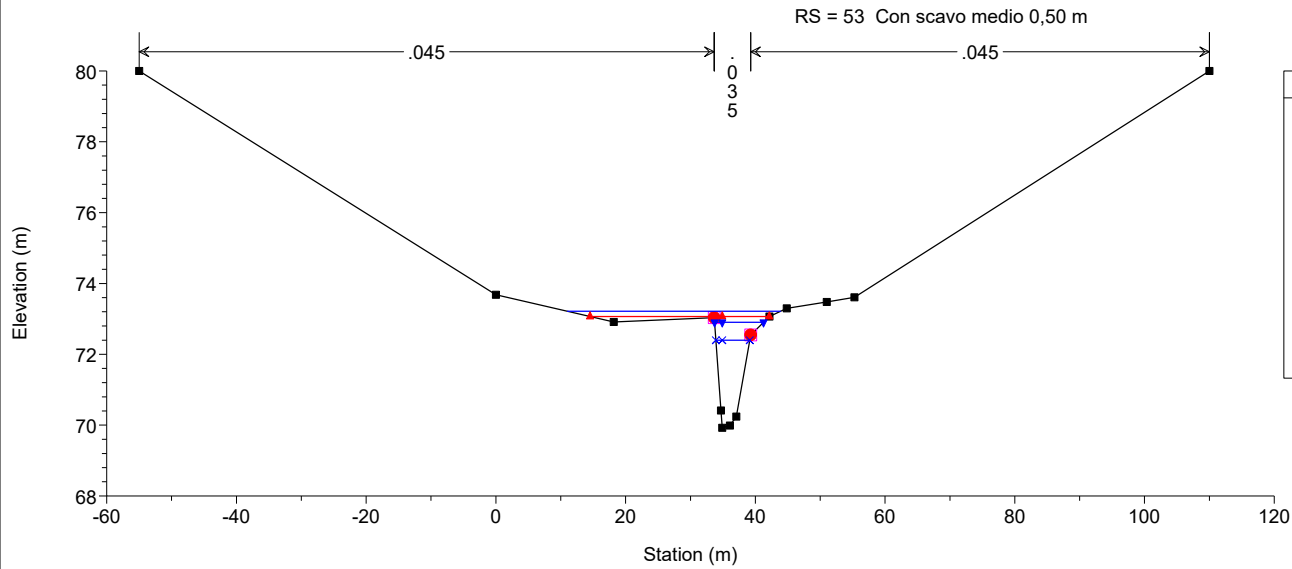
**Rio Arnese - Verifiche idrauliche moto vario stato di progetto**  
**Tr=1000, 500, 200 e Tr=30 anni – Tp 6 ore**



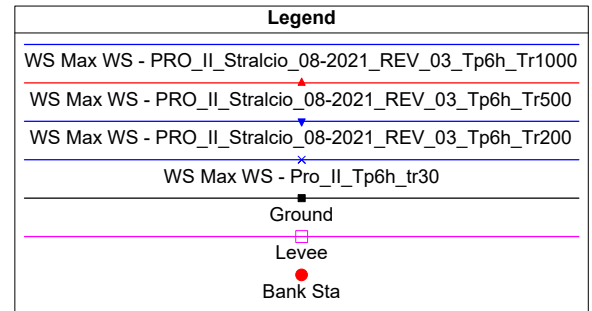
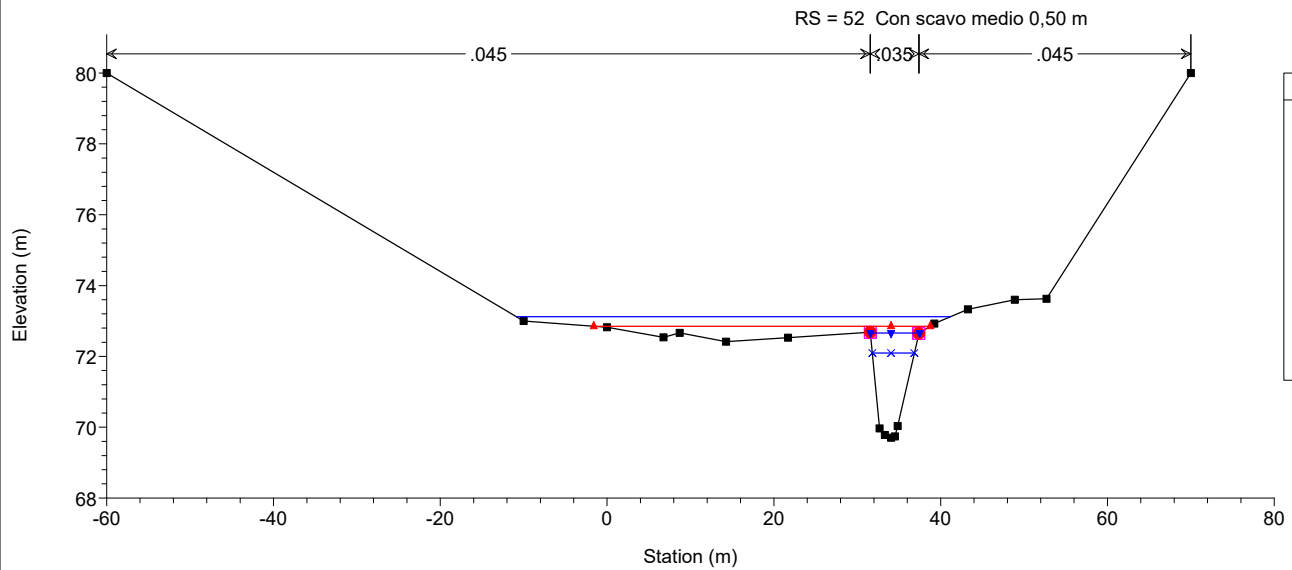
Legend	
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr1000	▲
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr500	▼
WS Max WS - PRO_II_Stalcio_08-2021_REV_03_Tp6h_Tr200	×
WS Max WS - Pro_II_Tp6h_tr30	■
Ground	■



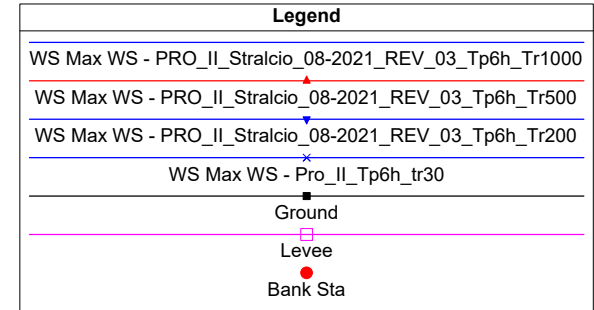
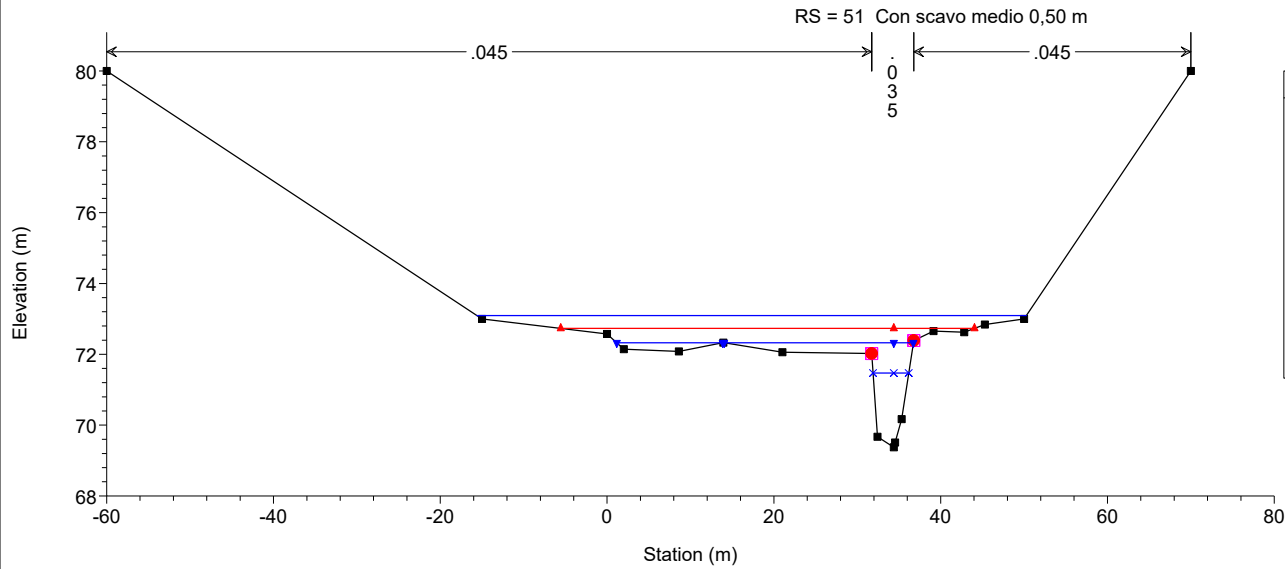
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



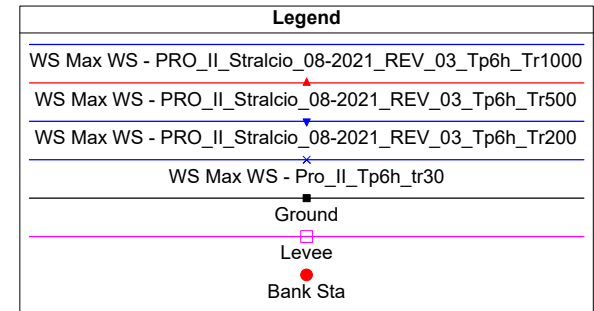
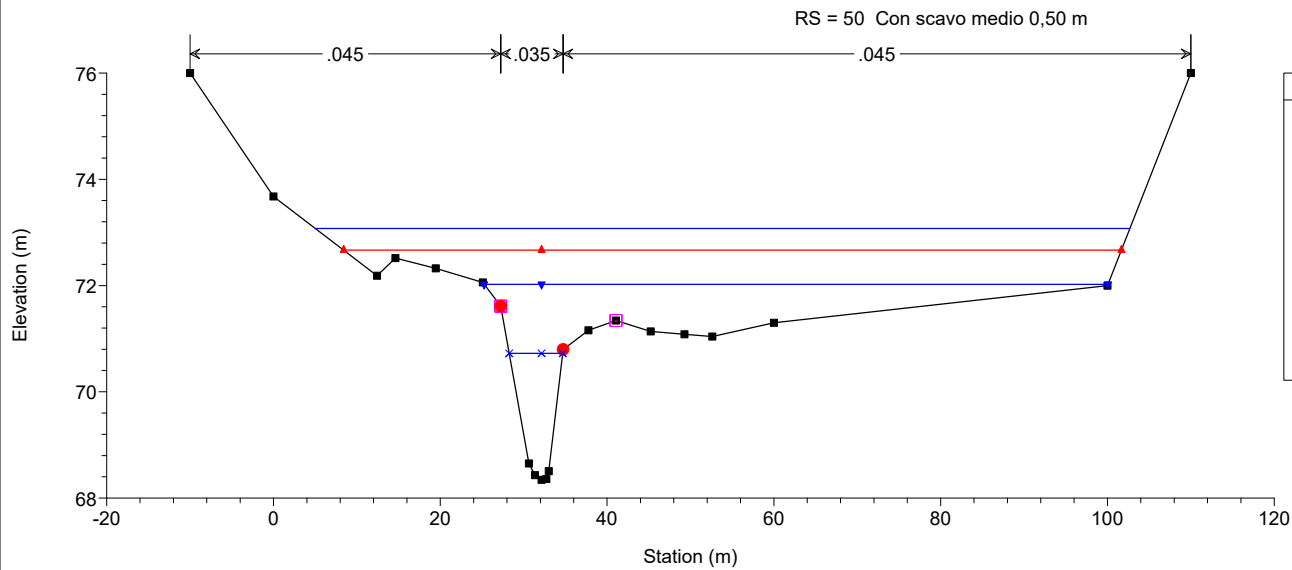
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

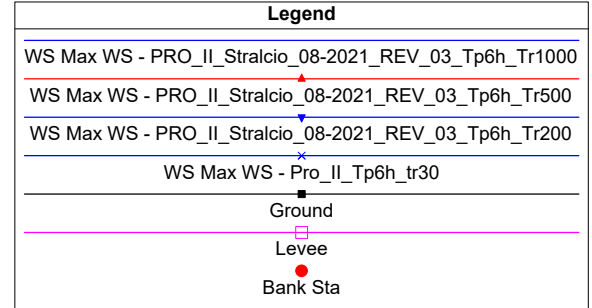
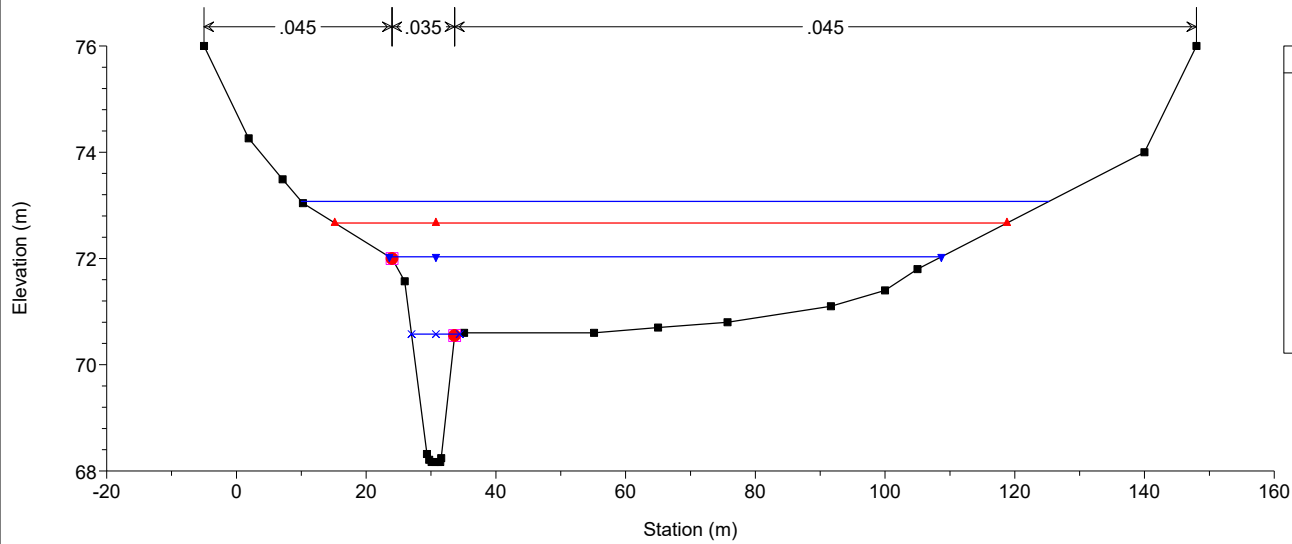


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



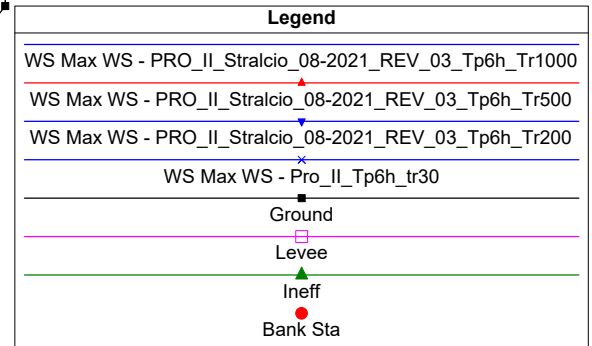
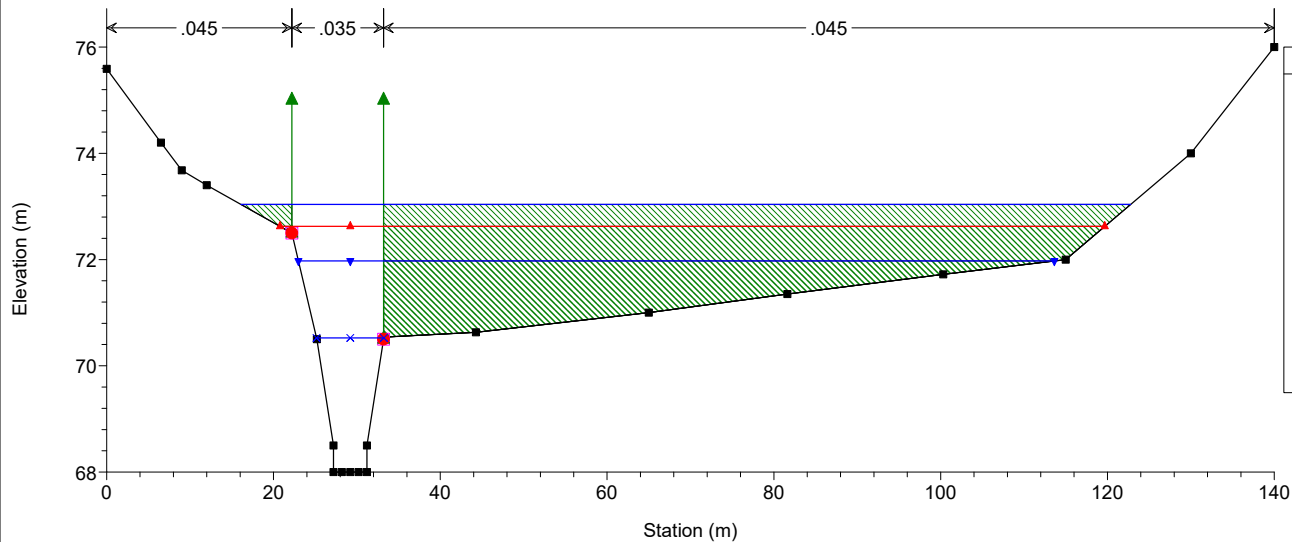
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 49.5 Ausiliaria cassa monte

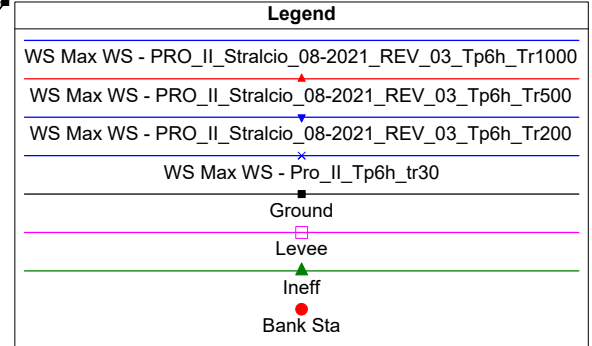
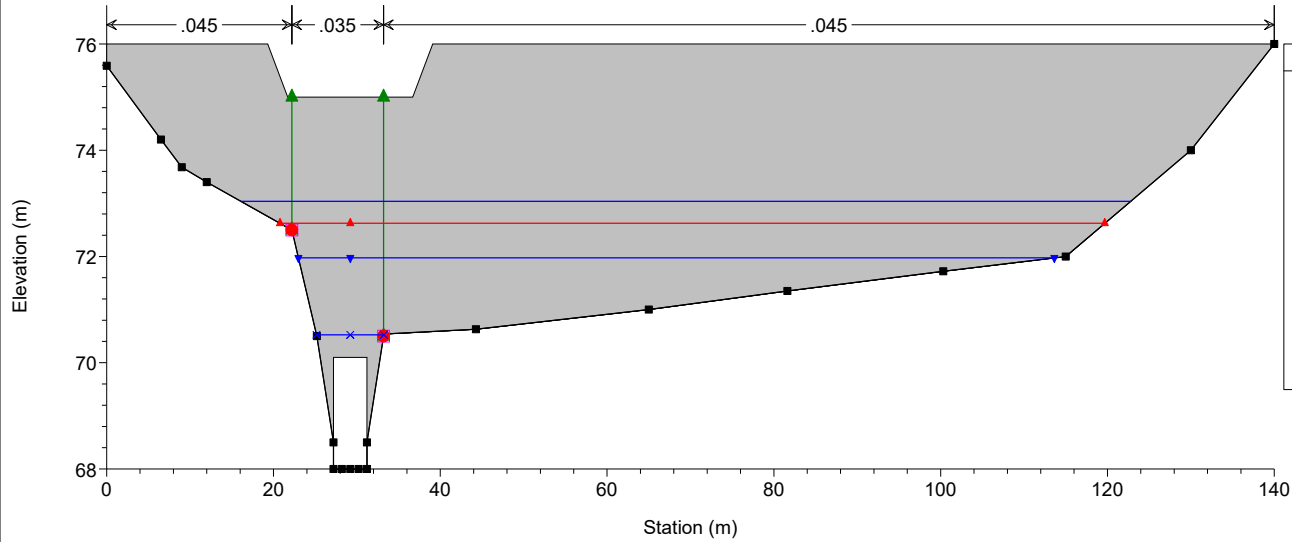


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

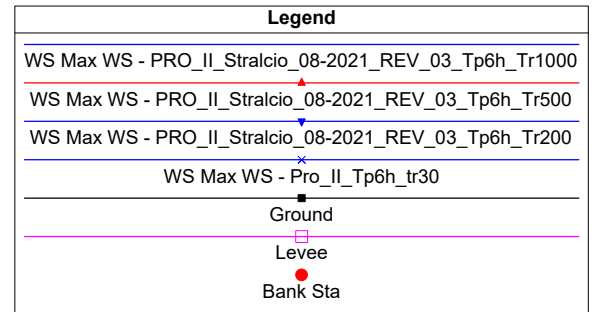
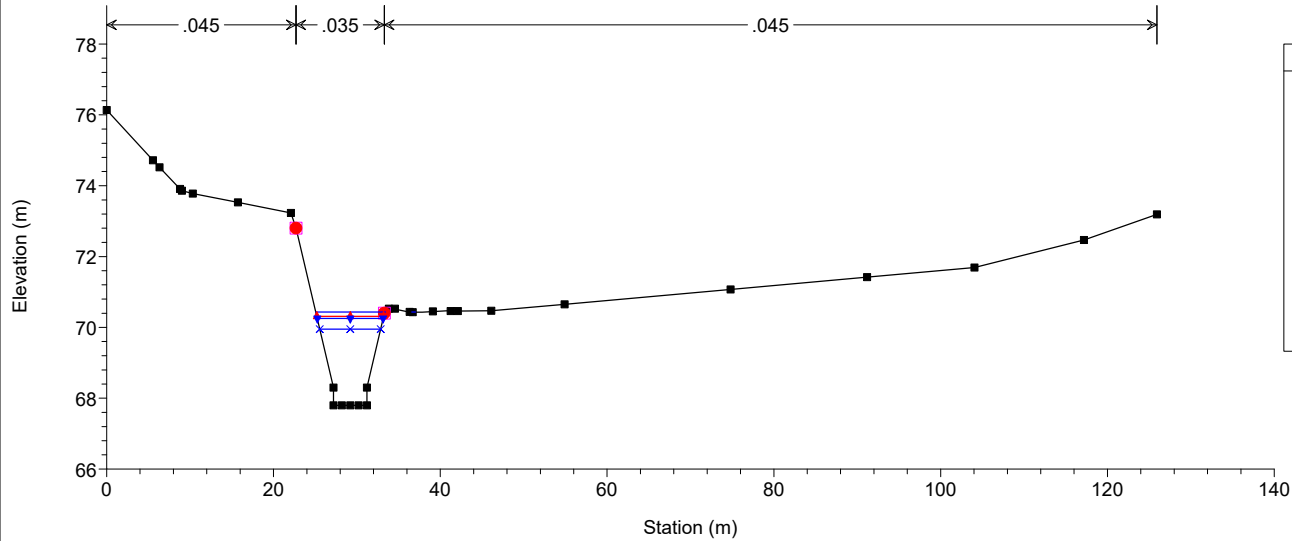
RS = 49.4 Ausiliaria monte Bocca Tarata cassa monte



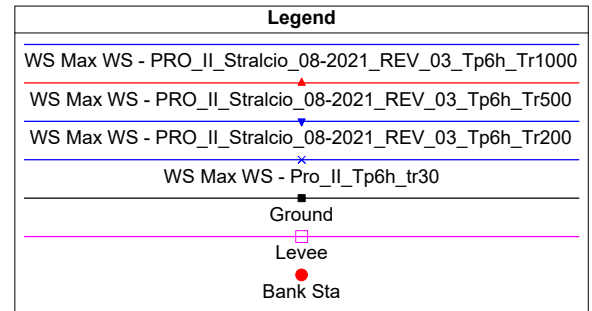
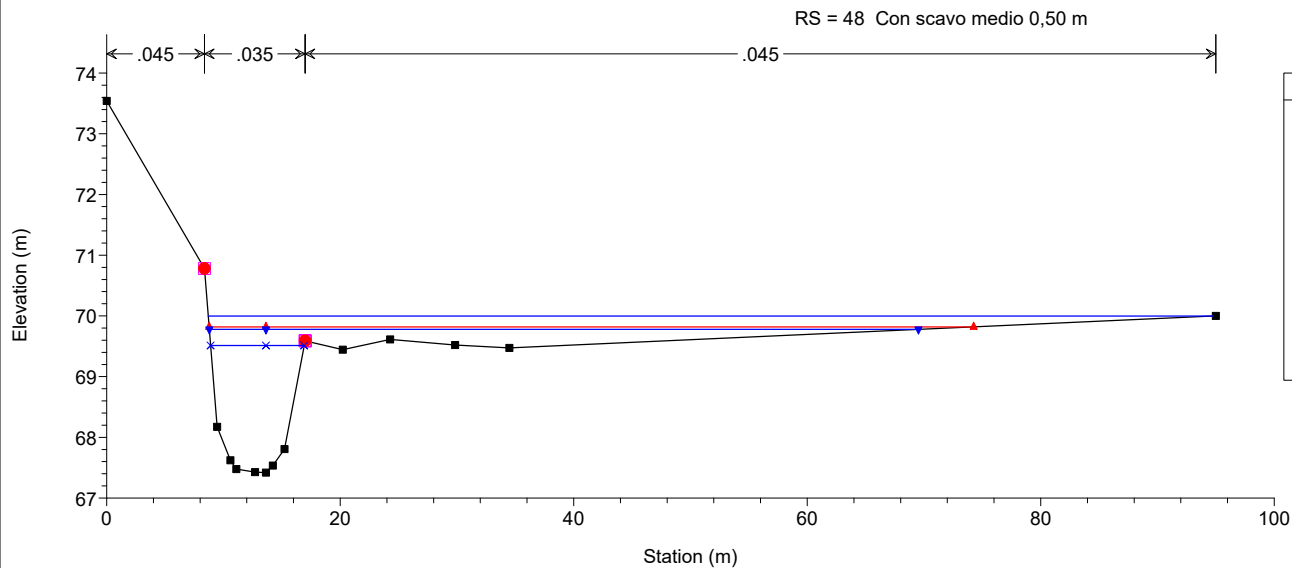
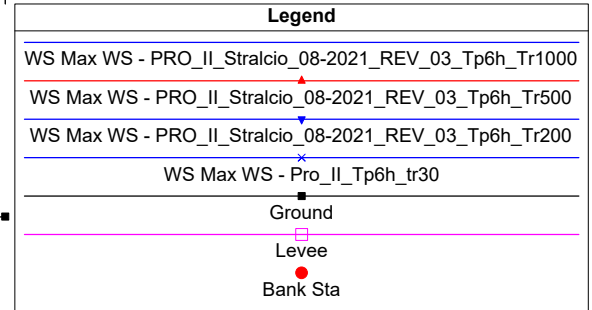
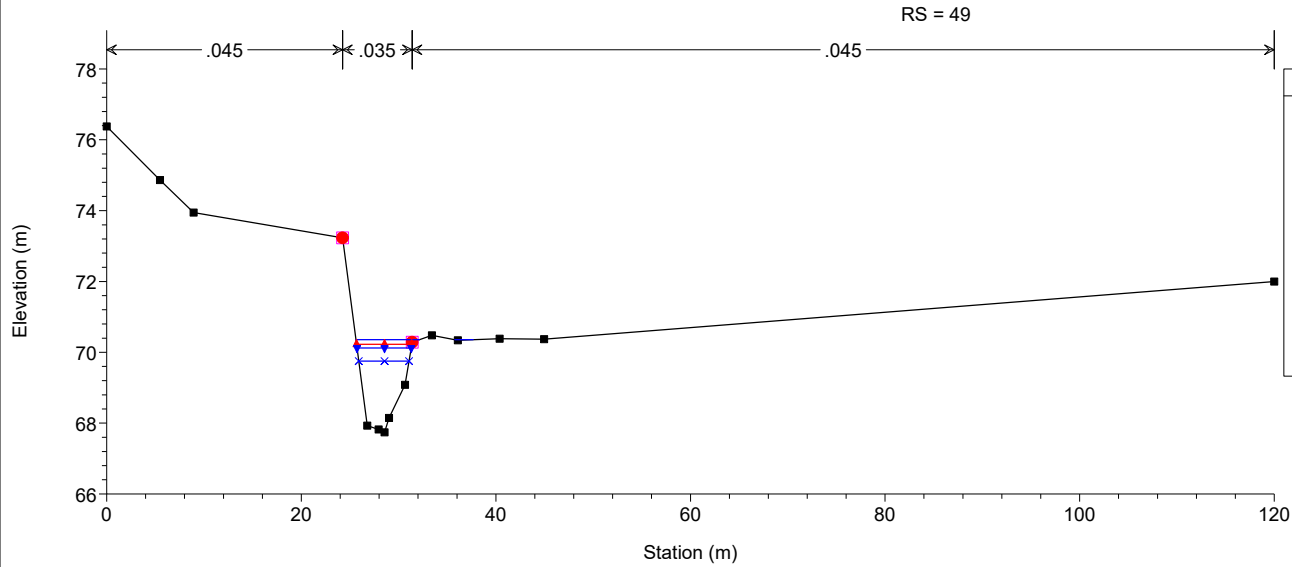
RS = 49.25 IS Bocca tarata monte rio Arnese



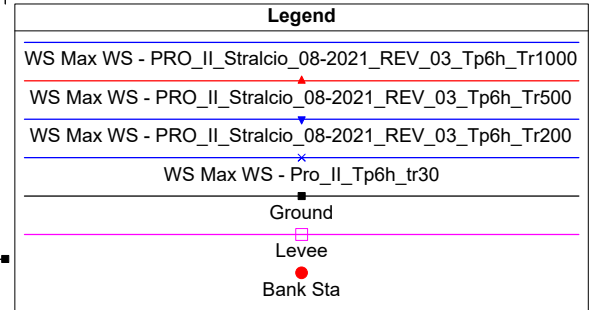
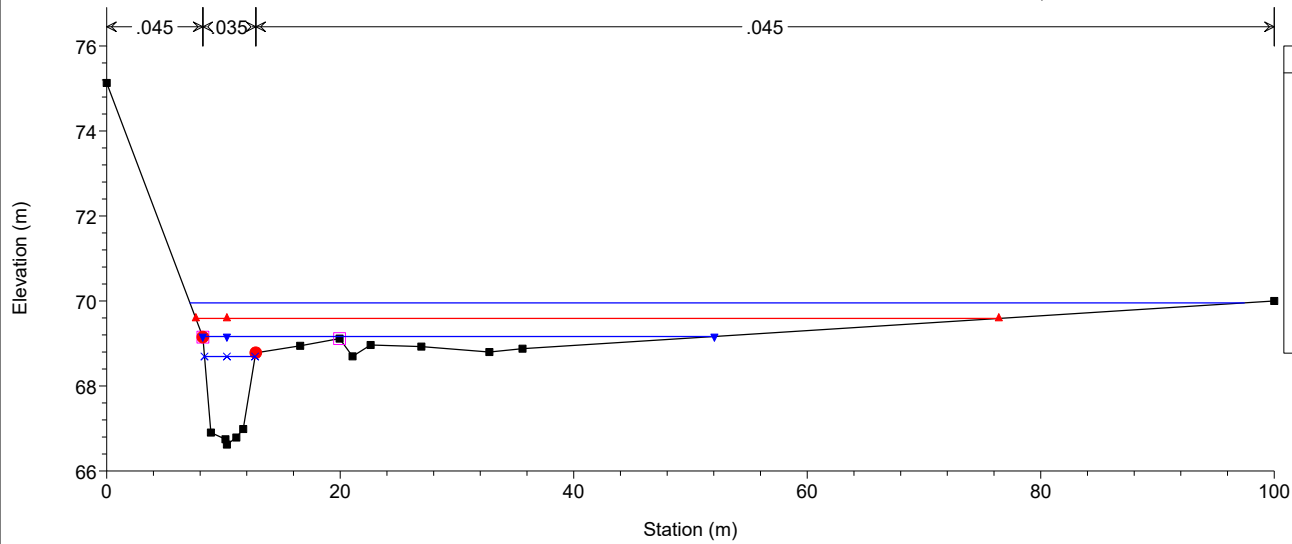
RS = 49.1 Ausiliaria valle Bocca Tarata cassa monte



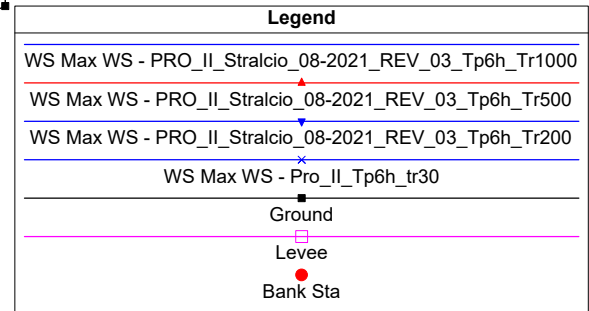
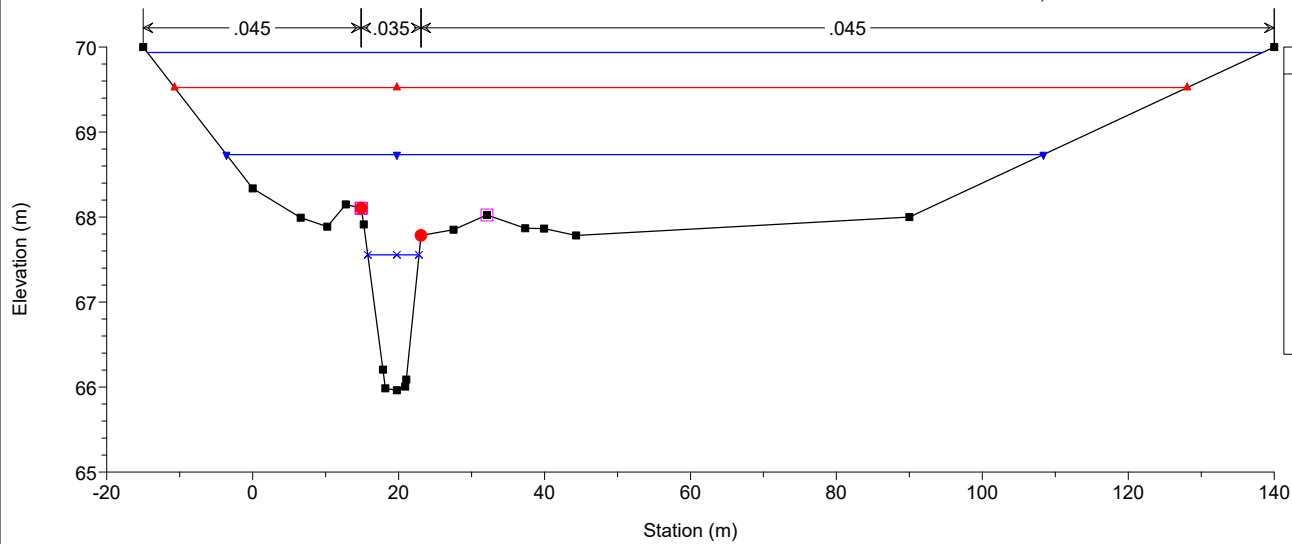




RS = 47 Con scavo medio 0,50 m

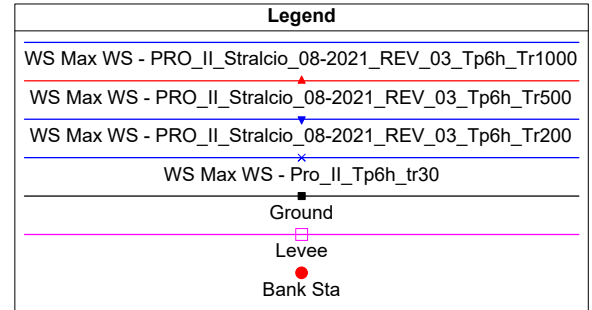
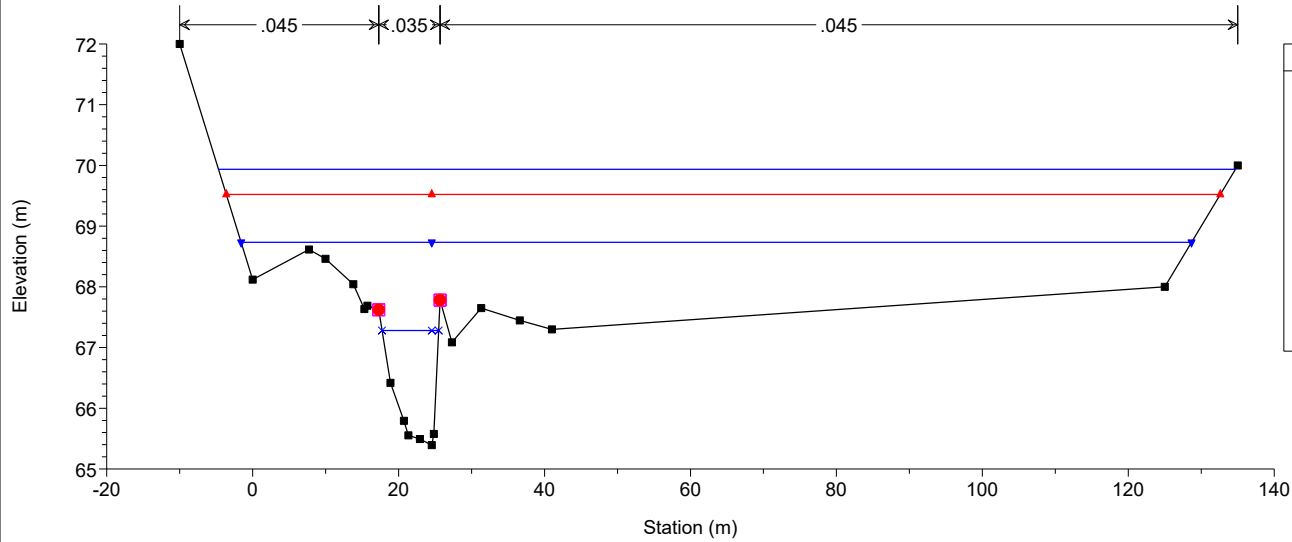


RS = 46 Con scavo medio 0,50 m



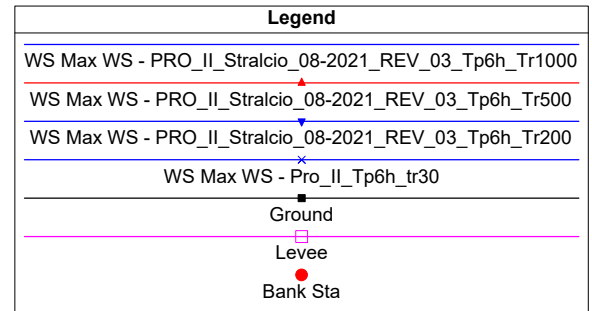
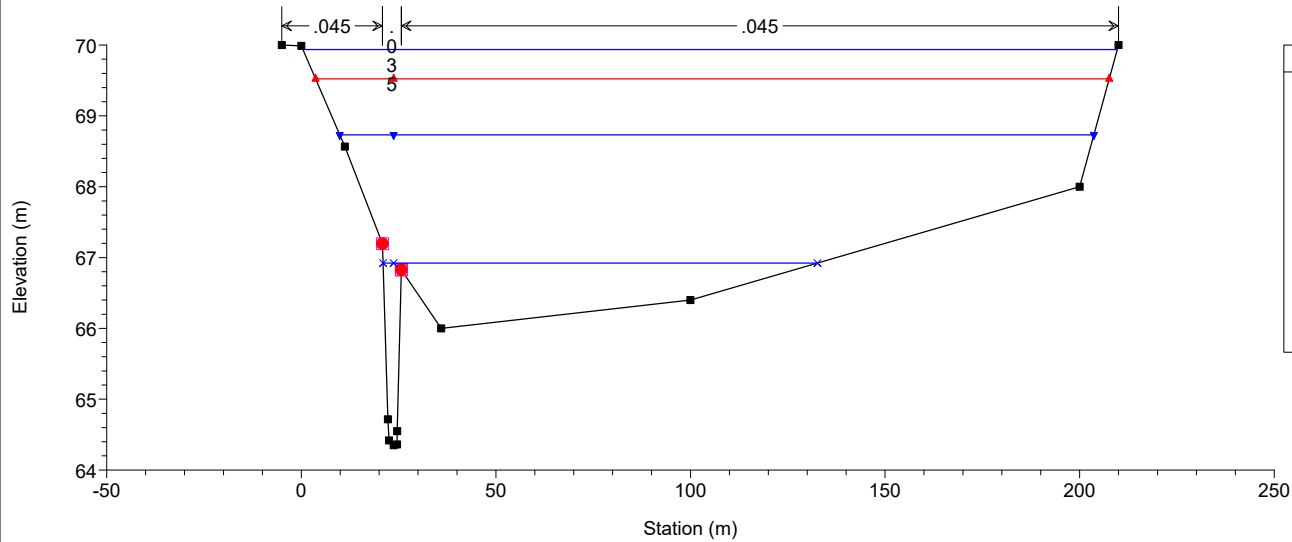
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 45 Con scavo medio 0,50 m



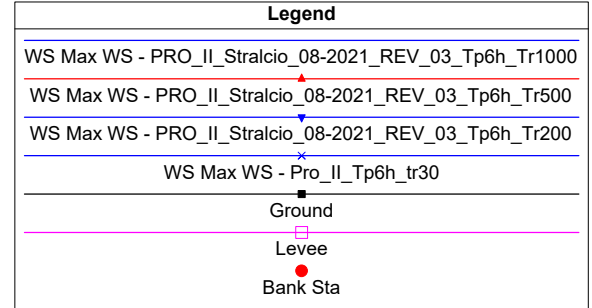
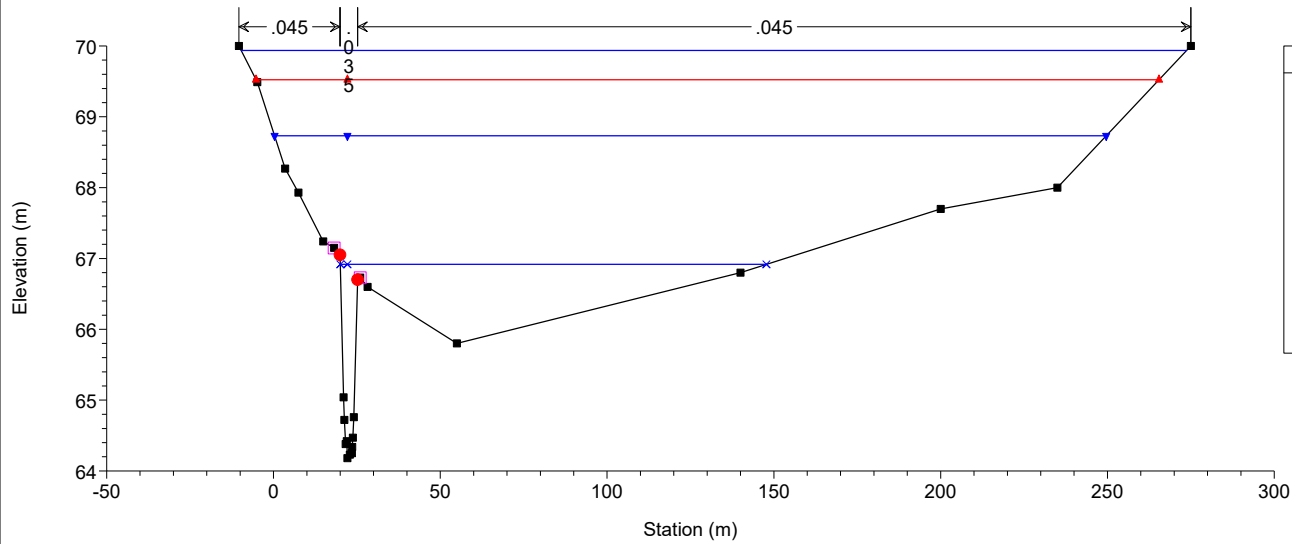
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 44 Con scavo medio 0,50 m



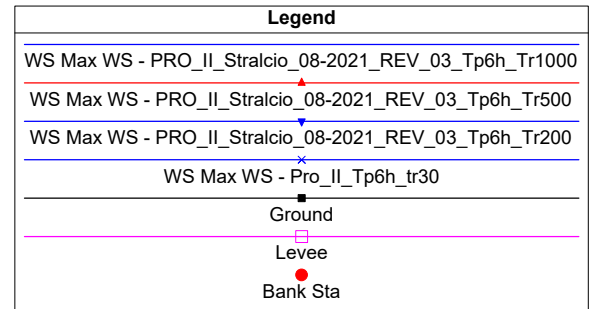
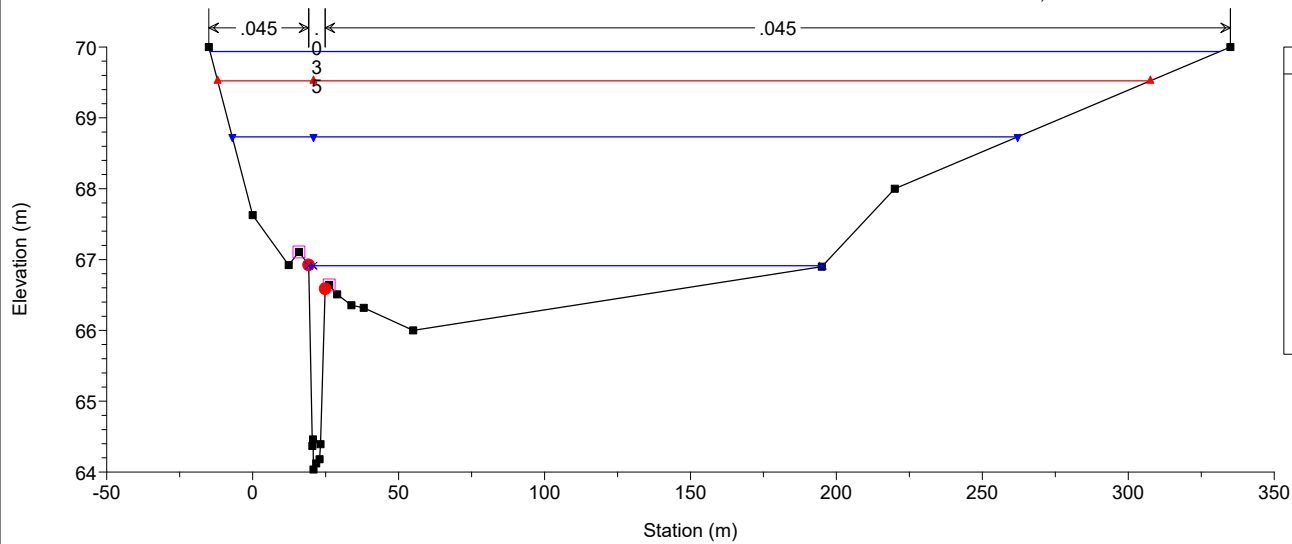
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 43.5 Ausiliaria cassa



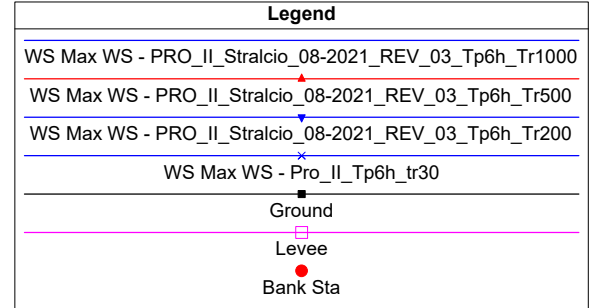
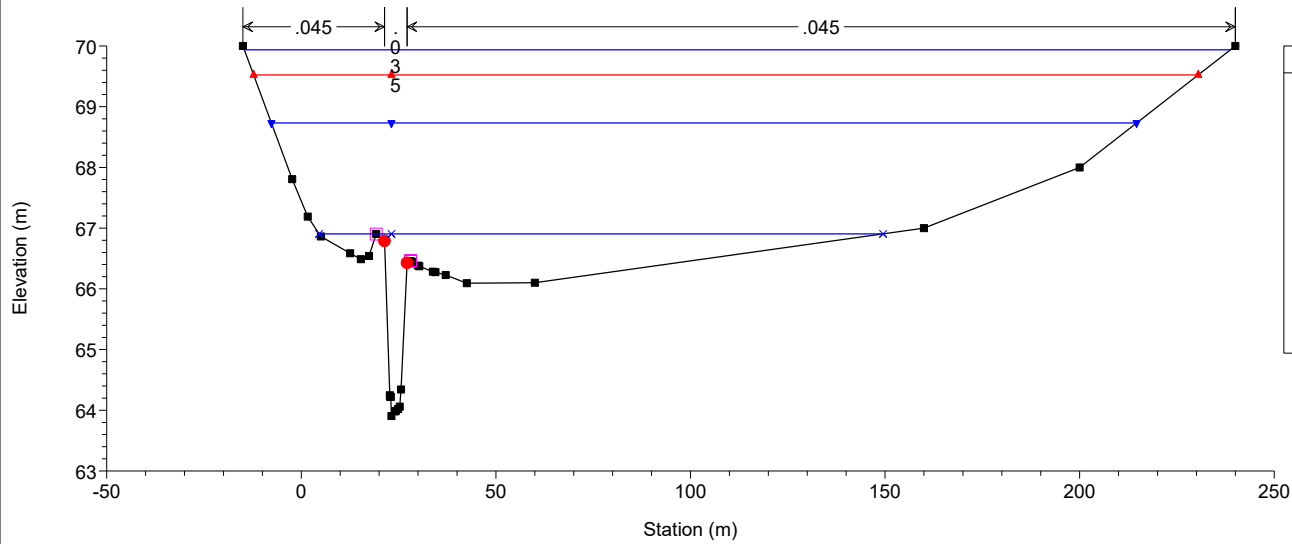
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 43 Con scavo medio 0,50 m



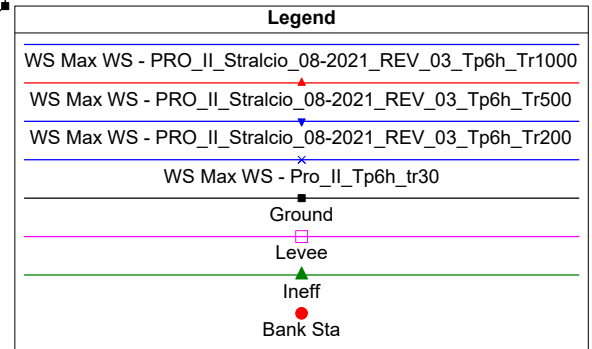
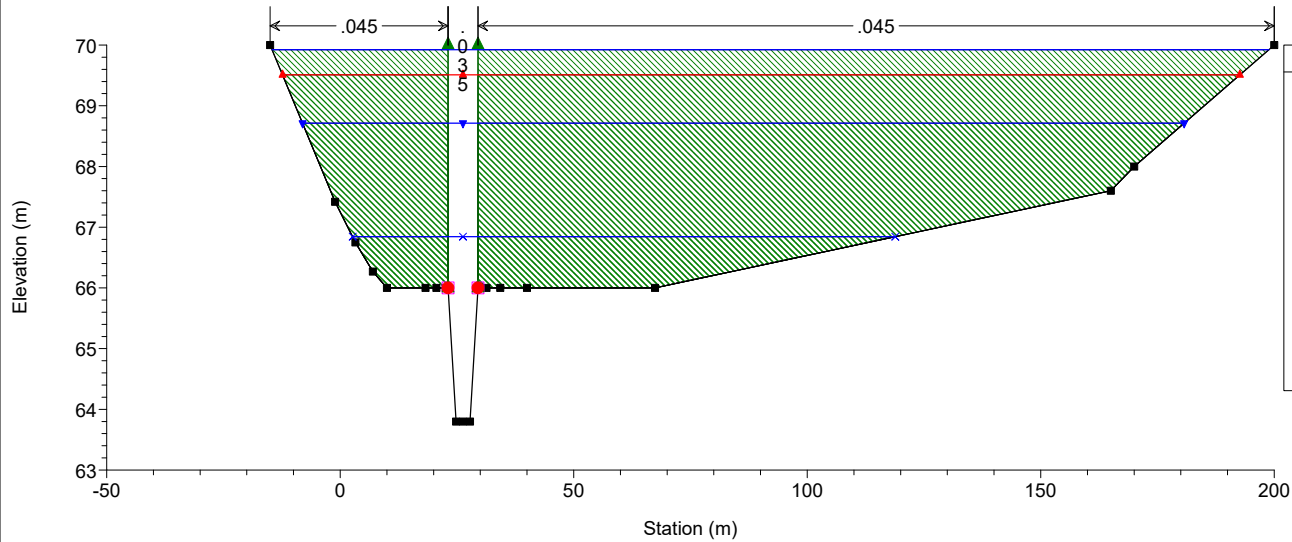
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

RS = 42.7 Ausiliaria cassa

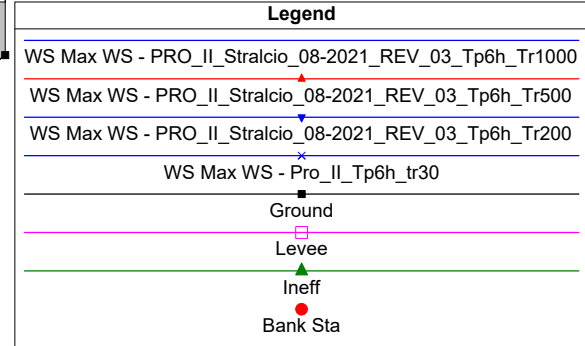
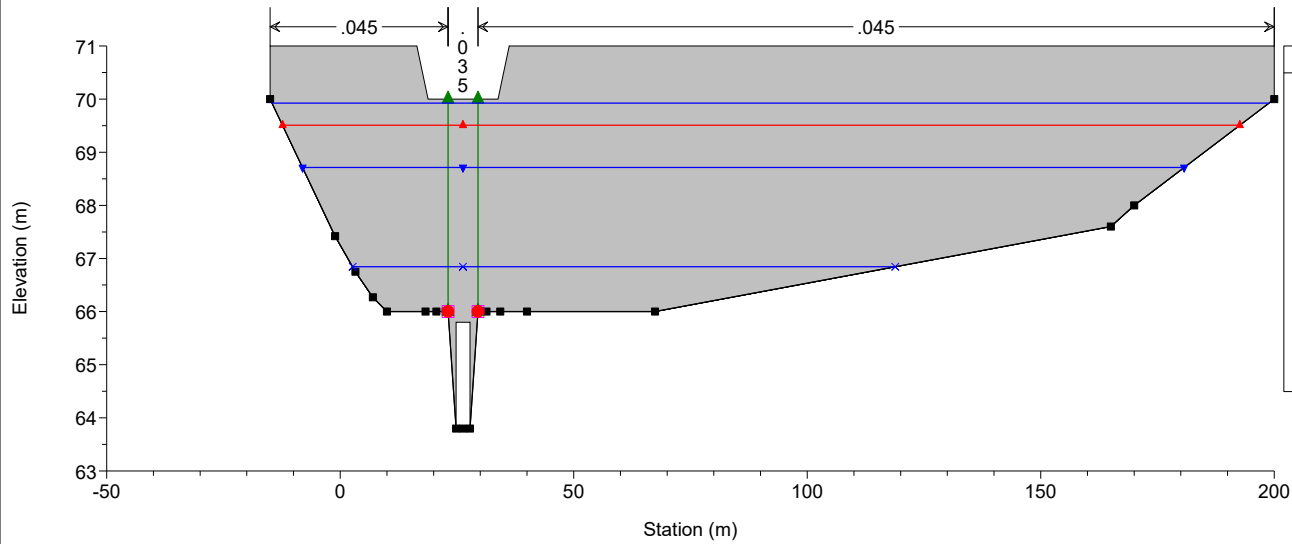


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

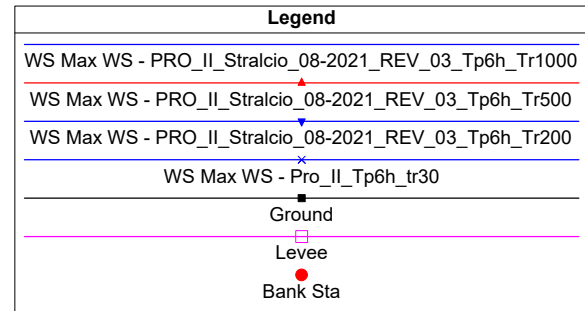
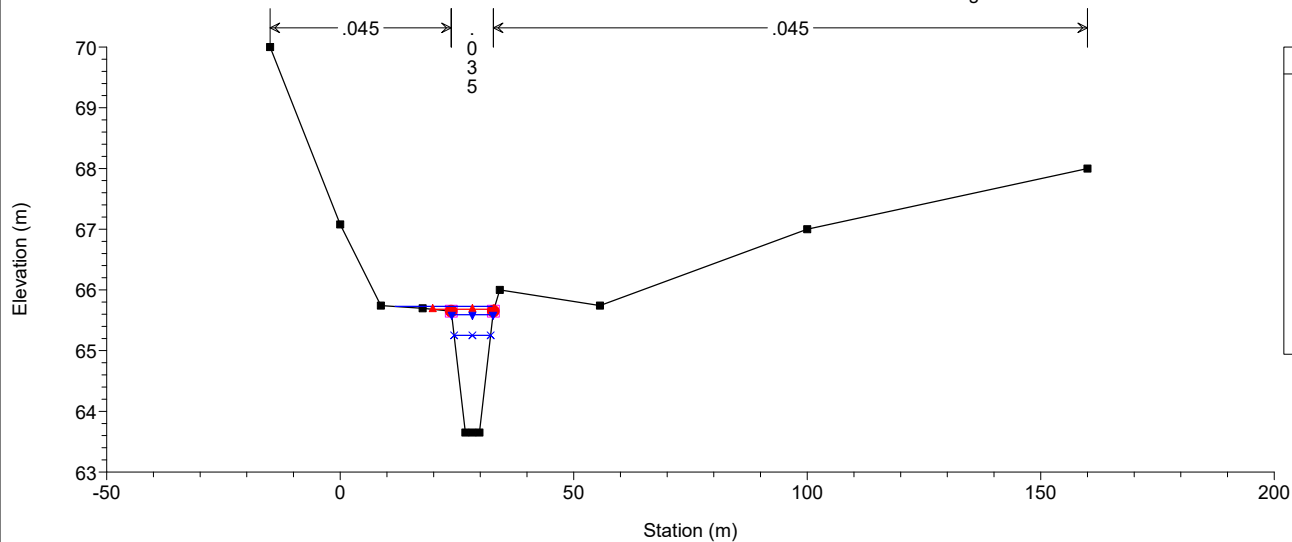
RS = 42.4 Ausiliaria monte Bocca Tarata cassa valle



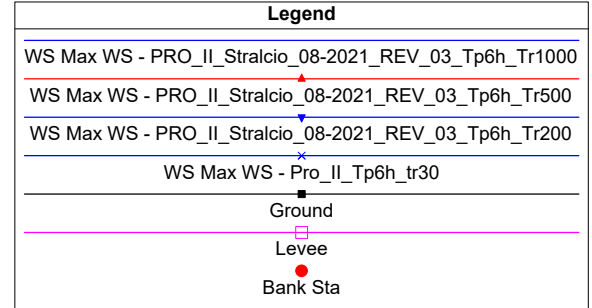
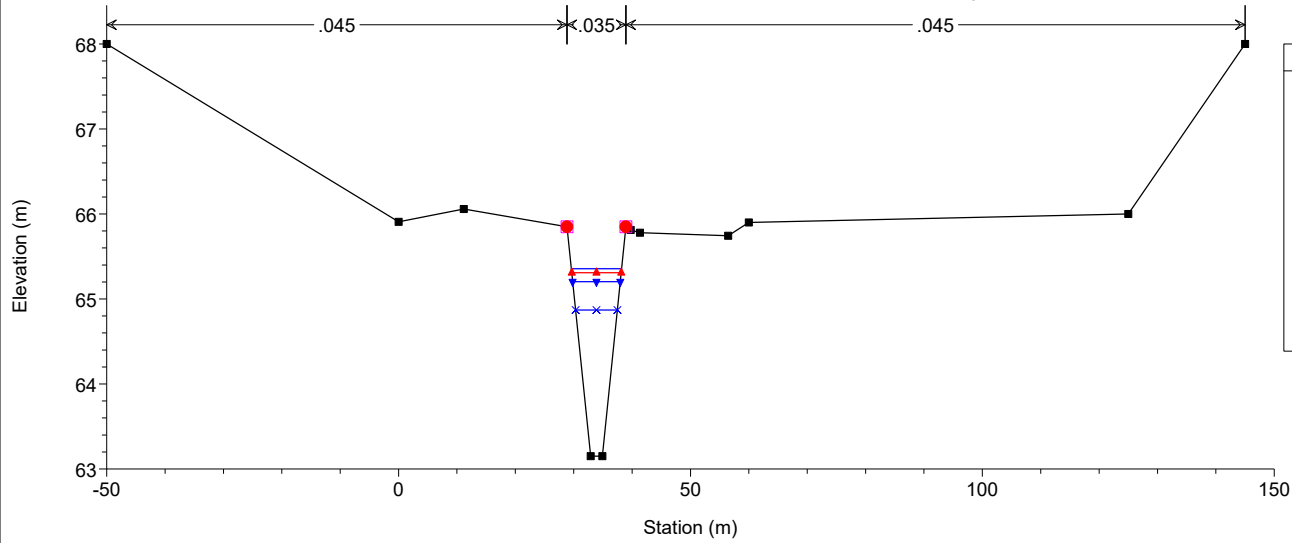
RS = 42.3 IS Bocca tarata valle rio Arnese



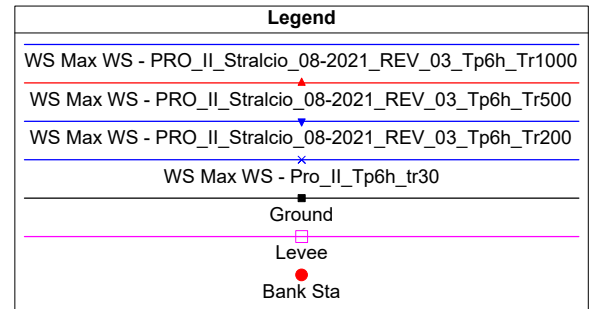
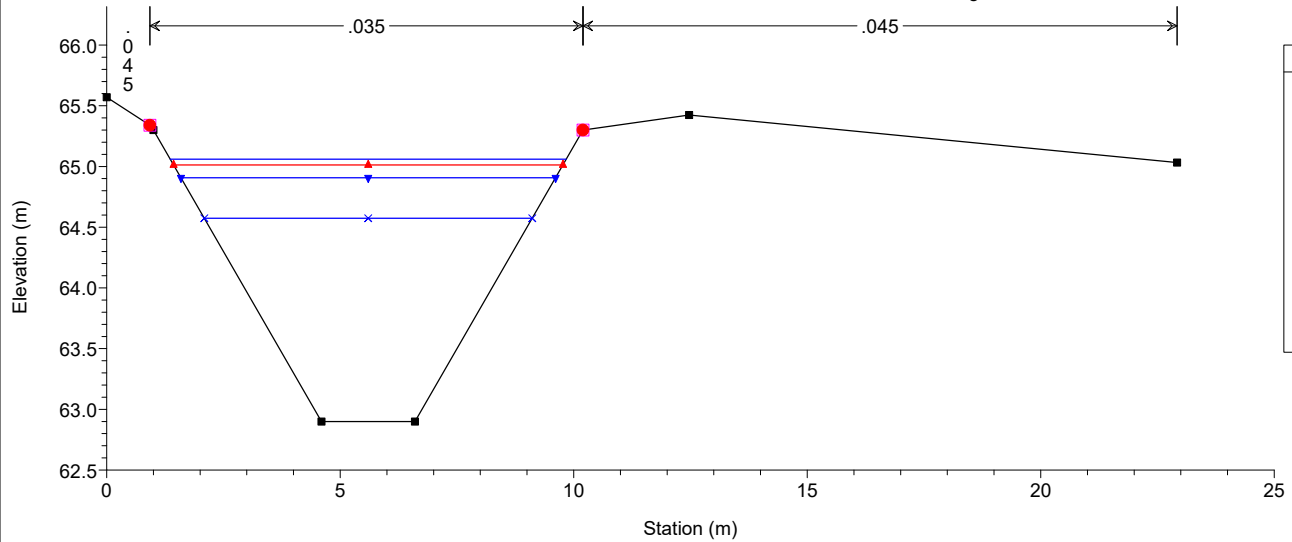
RS = 42 Risagomata

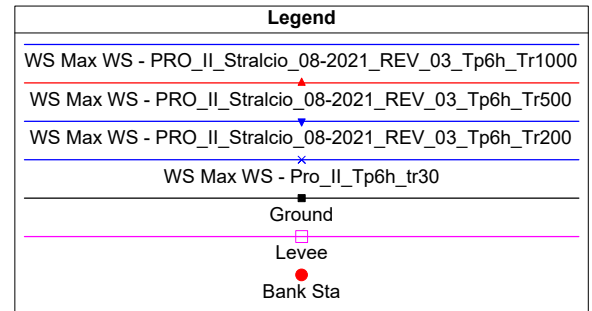
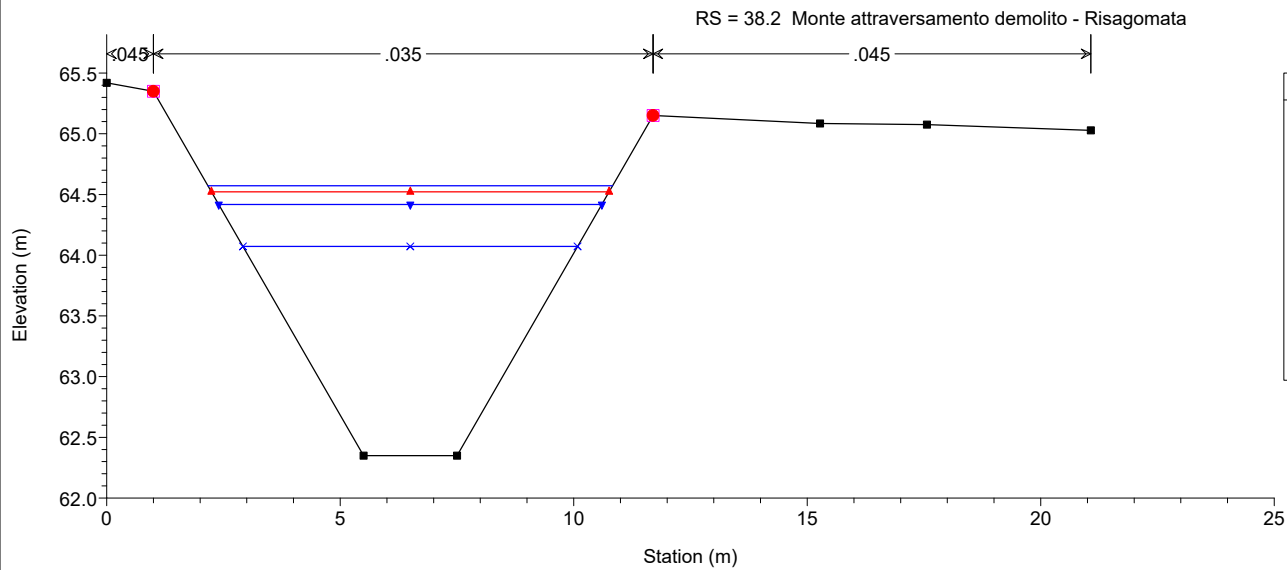
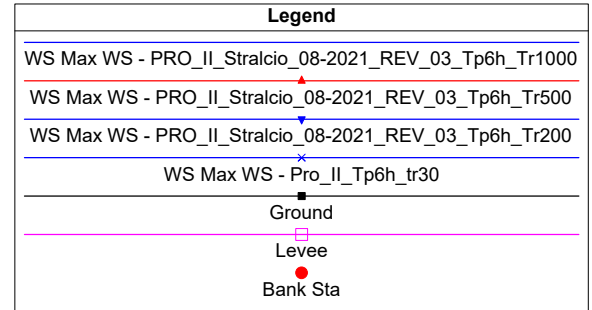
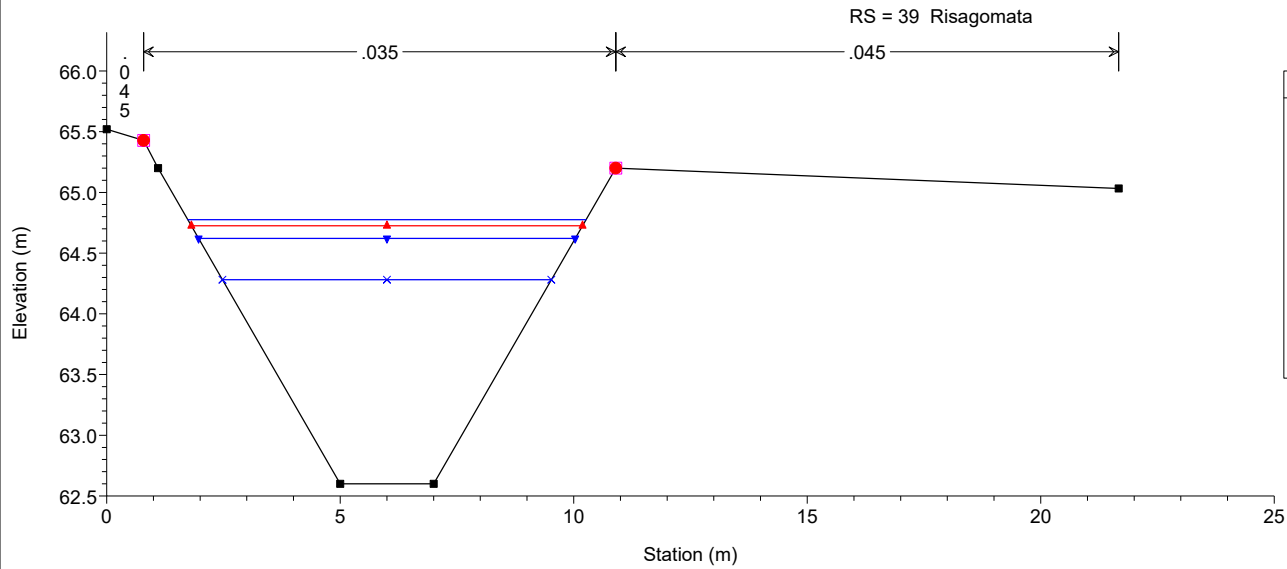


RS = 41 Risagomata



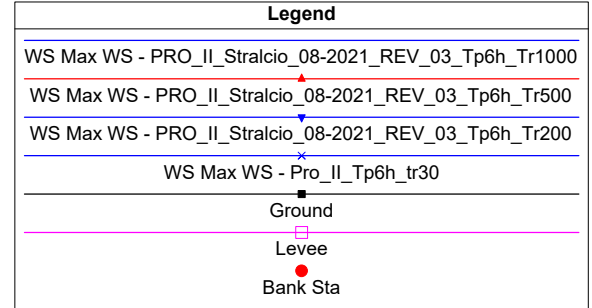
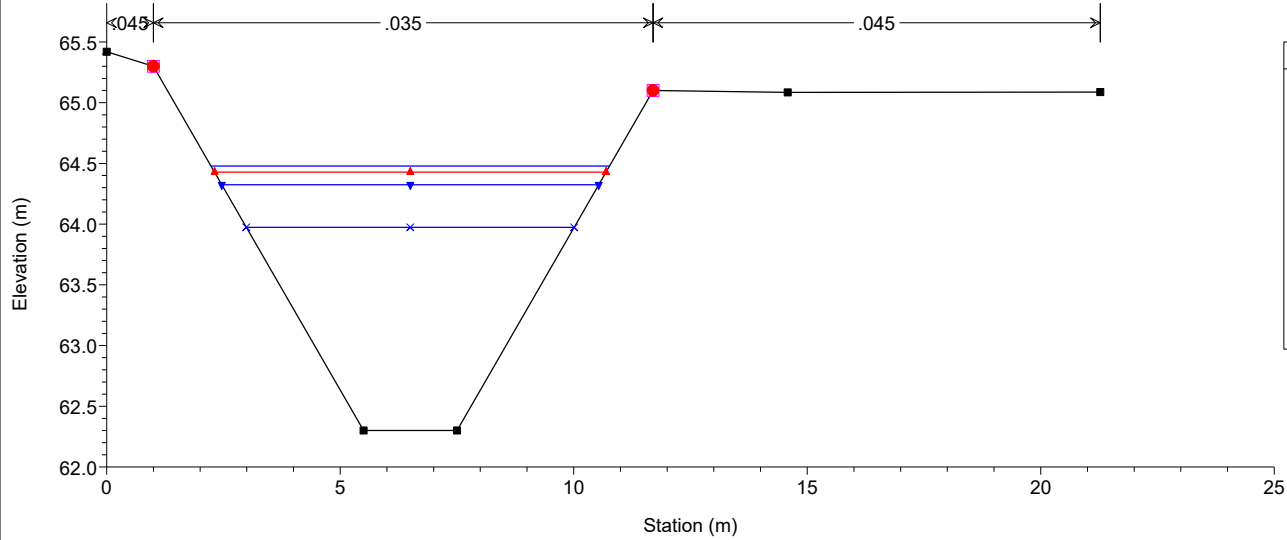
RS = 40 Risagomata



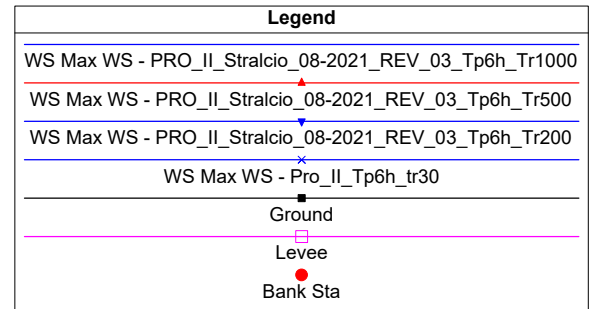
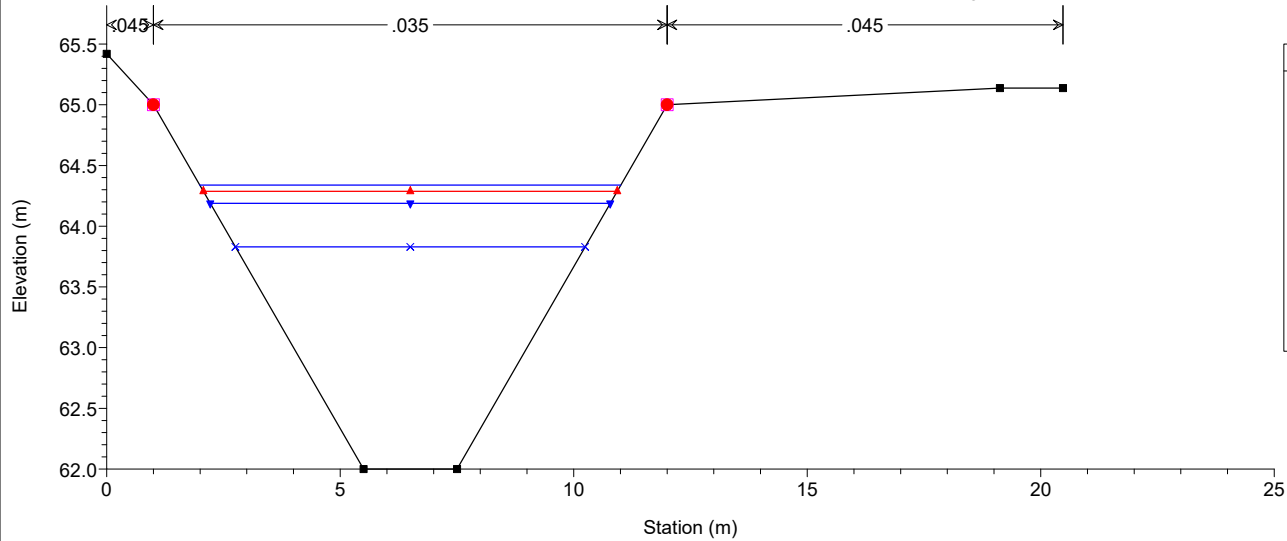


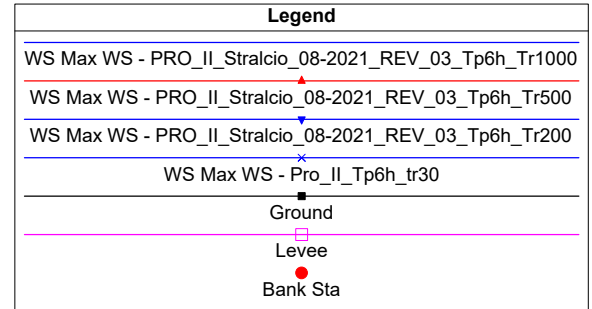
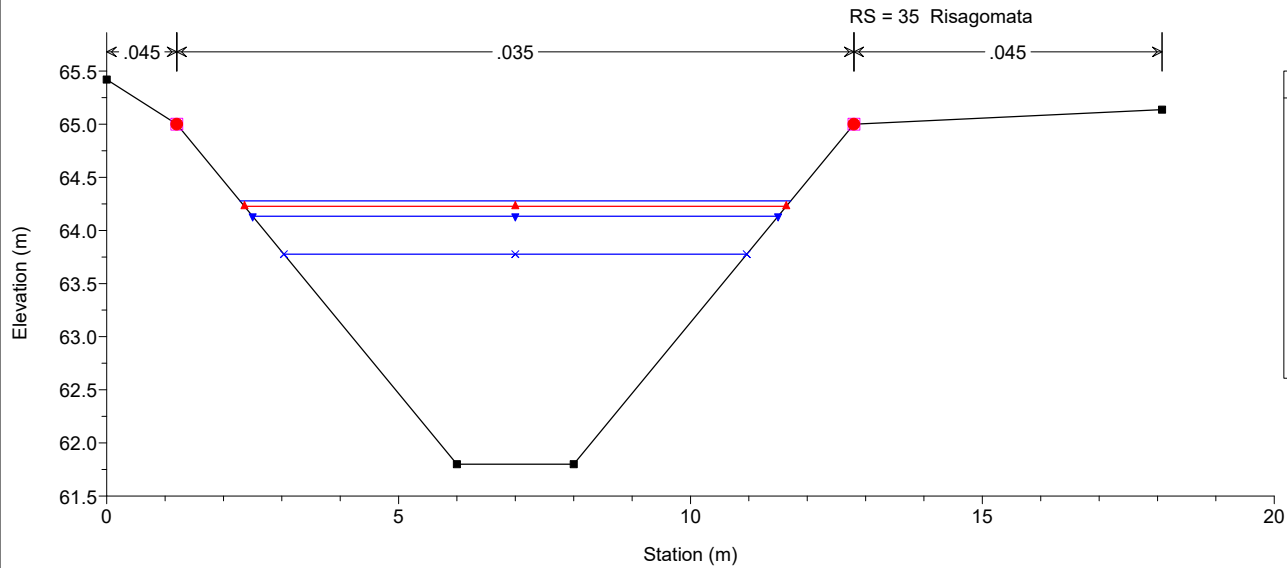
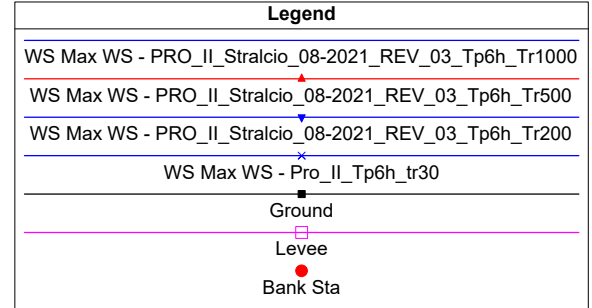
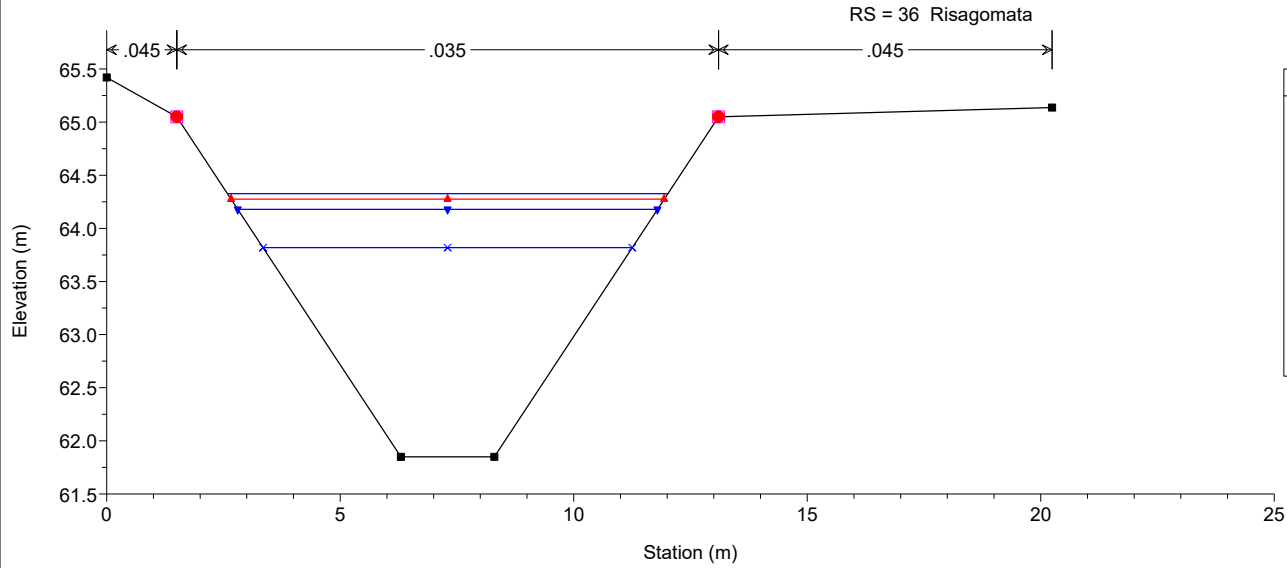


RS = 38.1 Valle attraversamento demolito - Risagomata

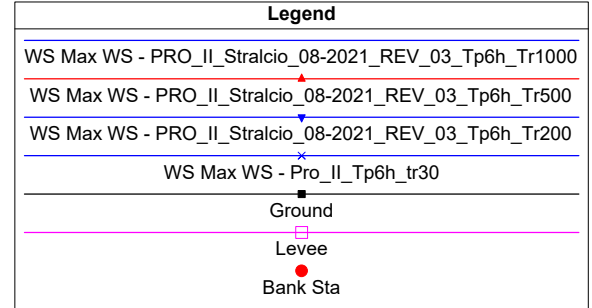
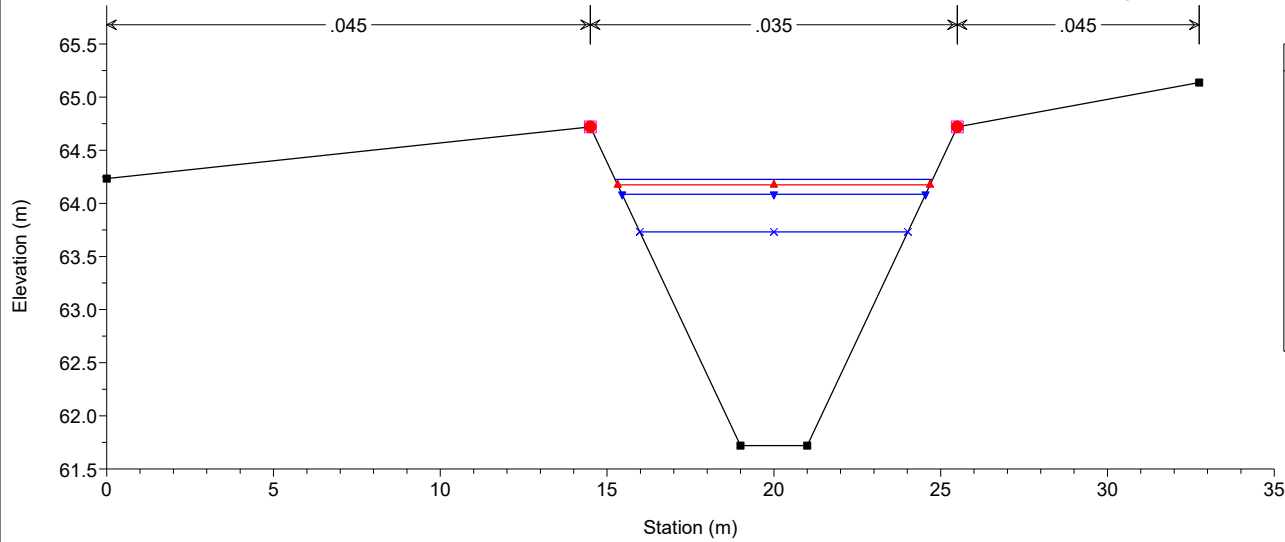


RS = 37 Risagomata

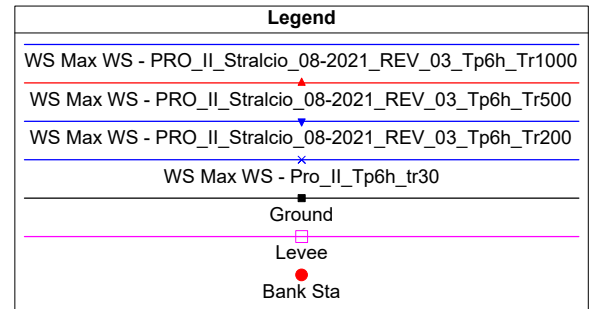
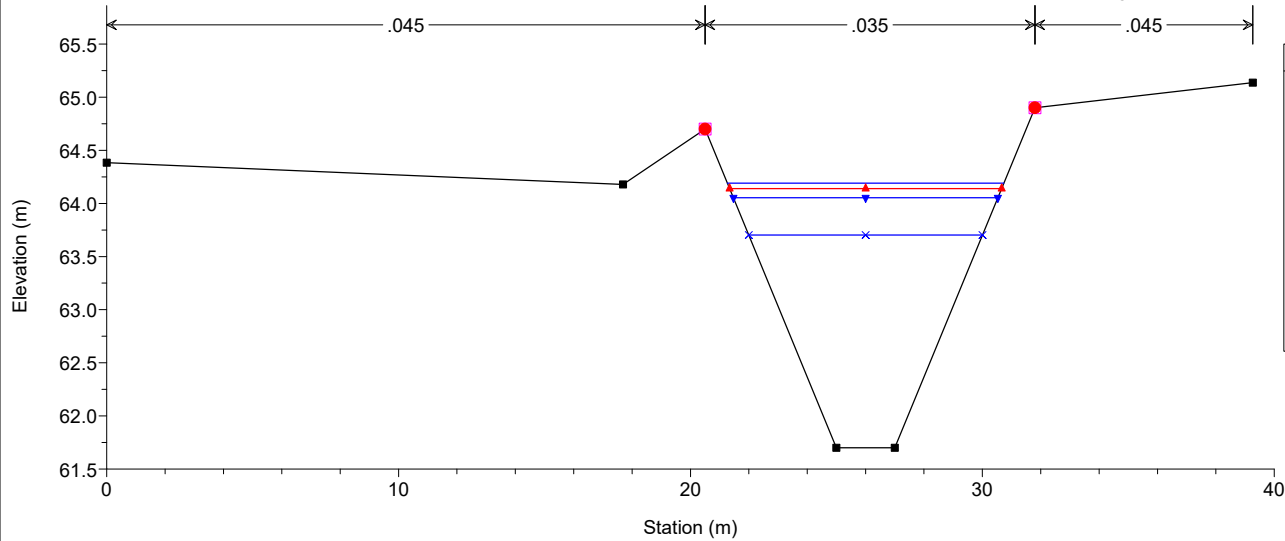


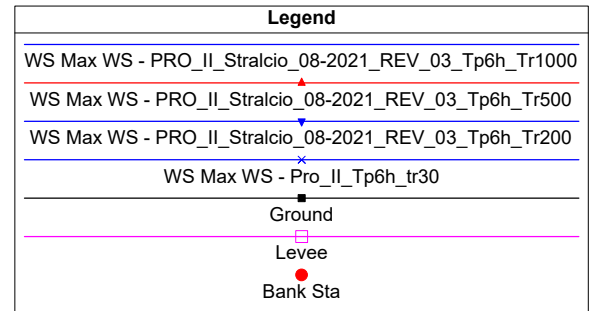
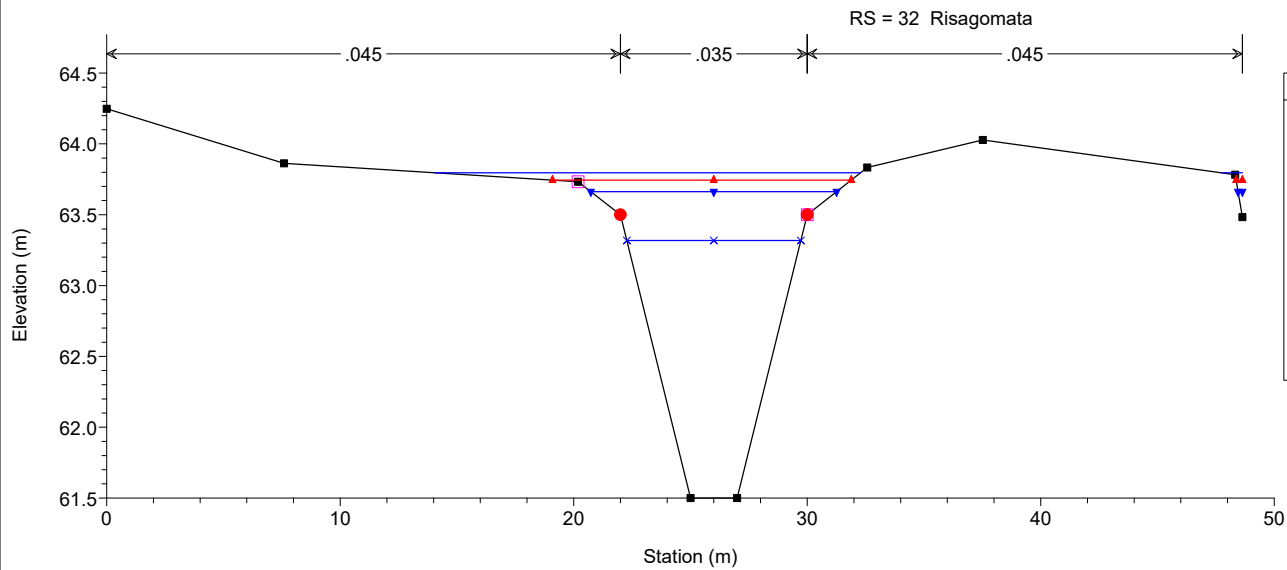
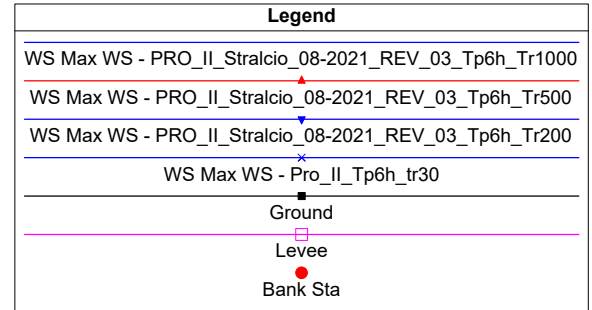
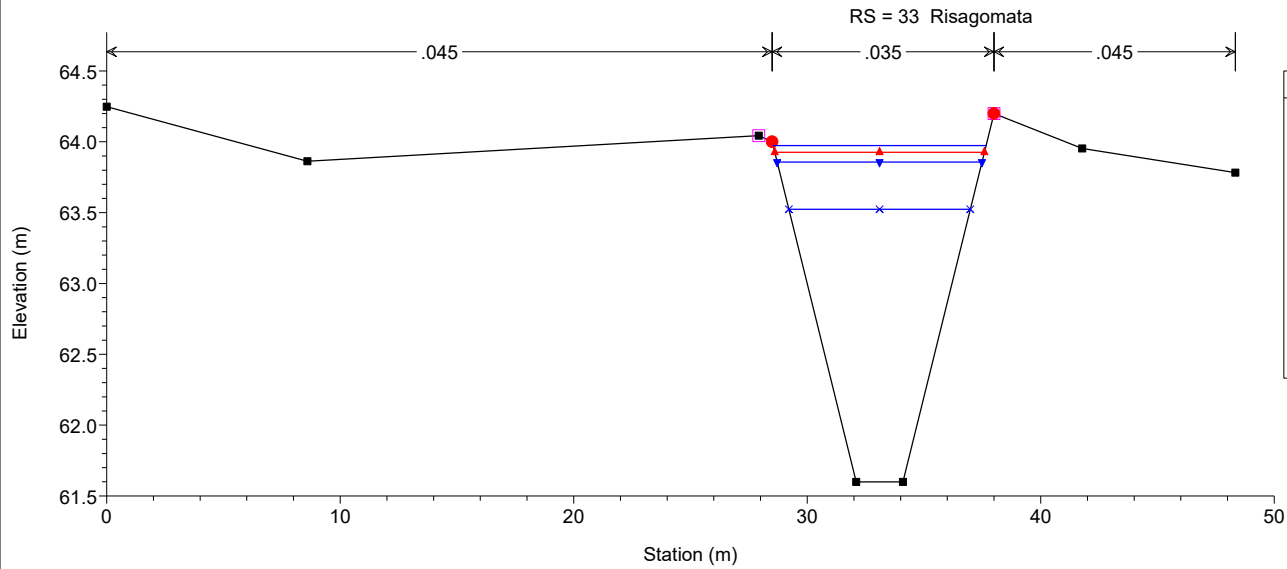


RS = 34.2 Monte attraversamento demolito - Risagomata

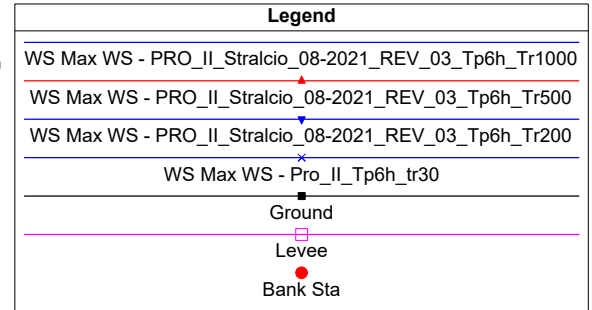
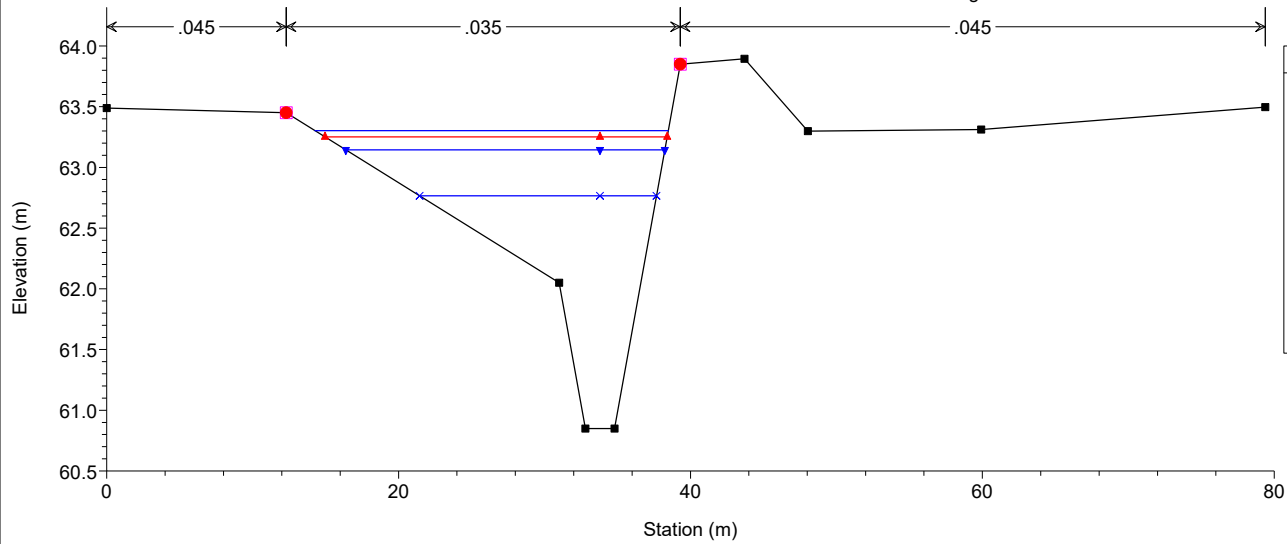


RS = 34.1 Valle attraversamento demolito - Risagomata

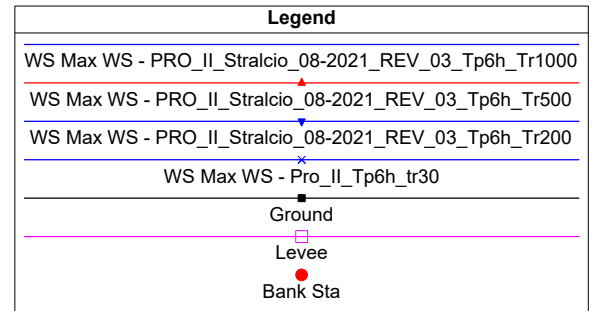
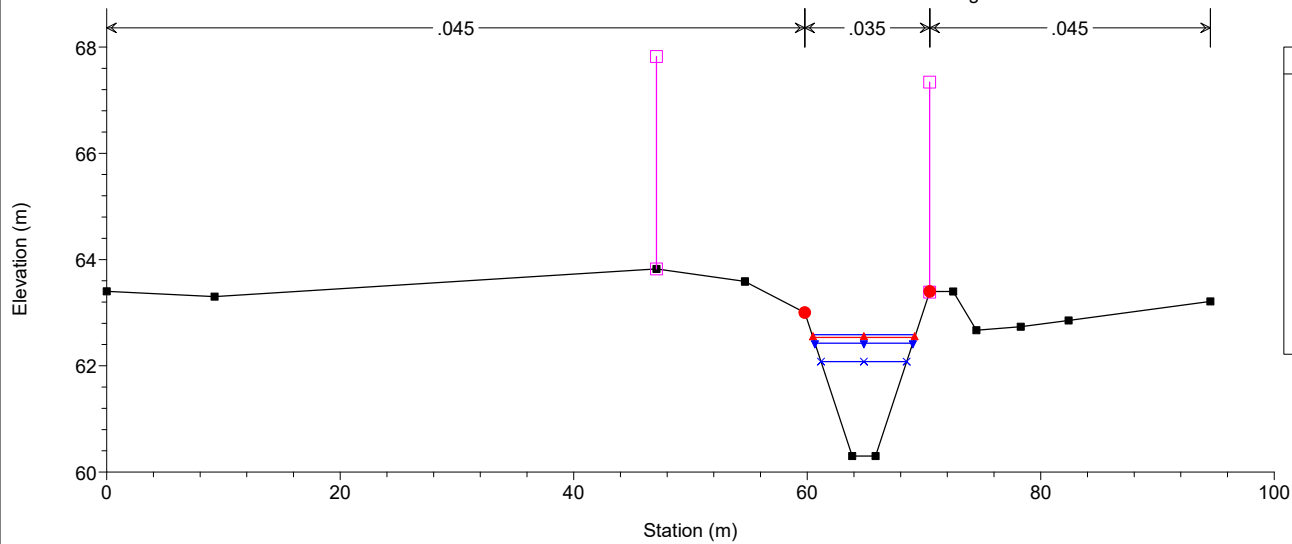


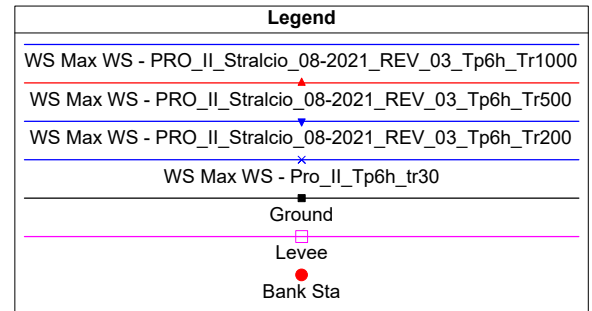
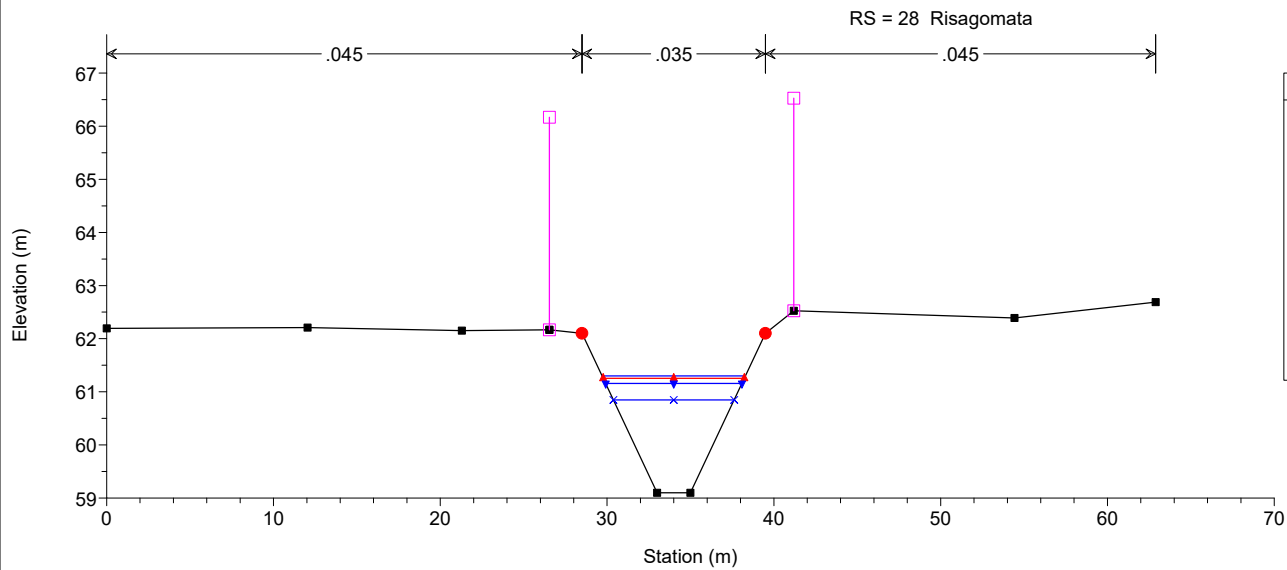
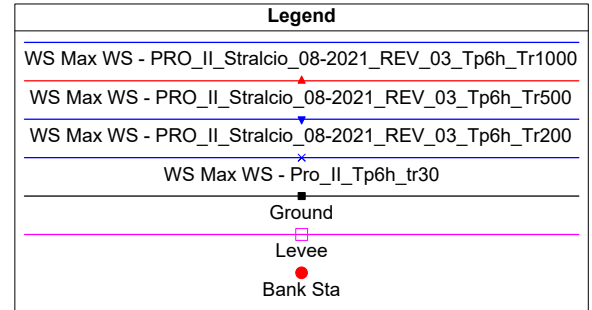
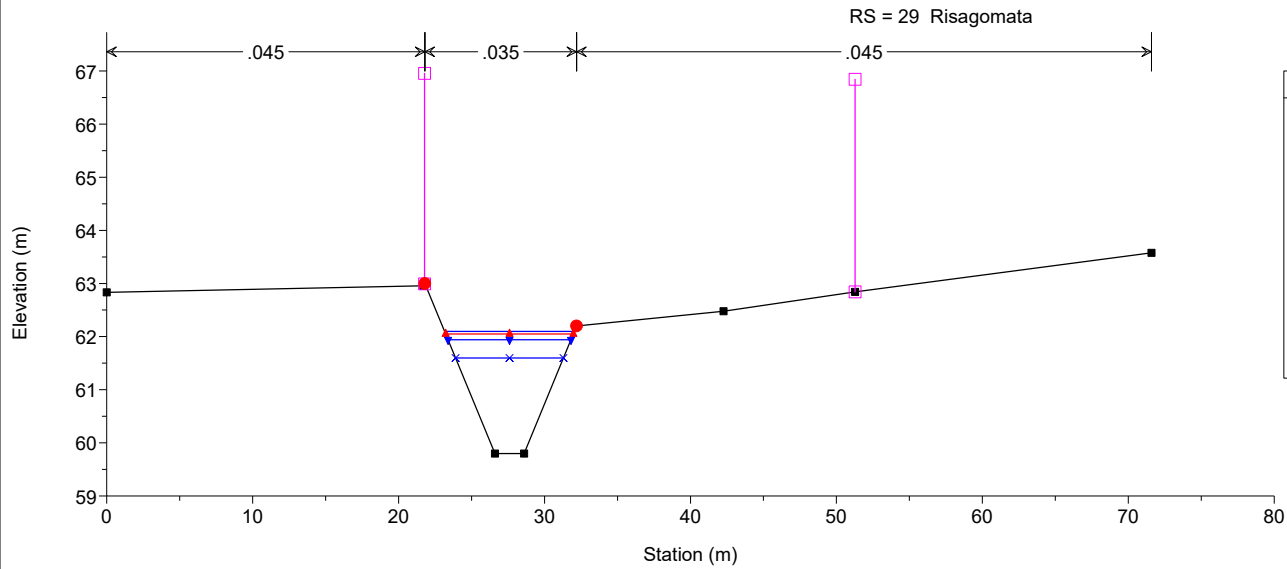


RS = 31 Risagomata

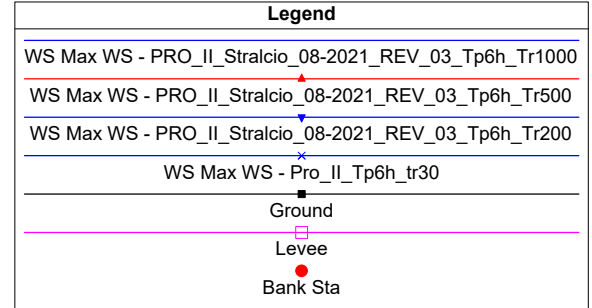
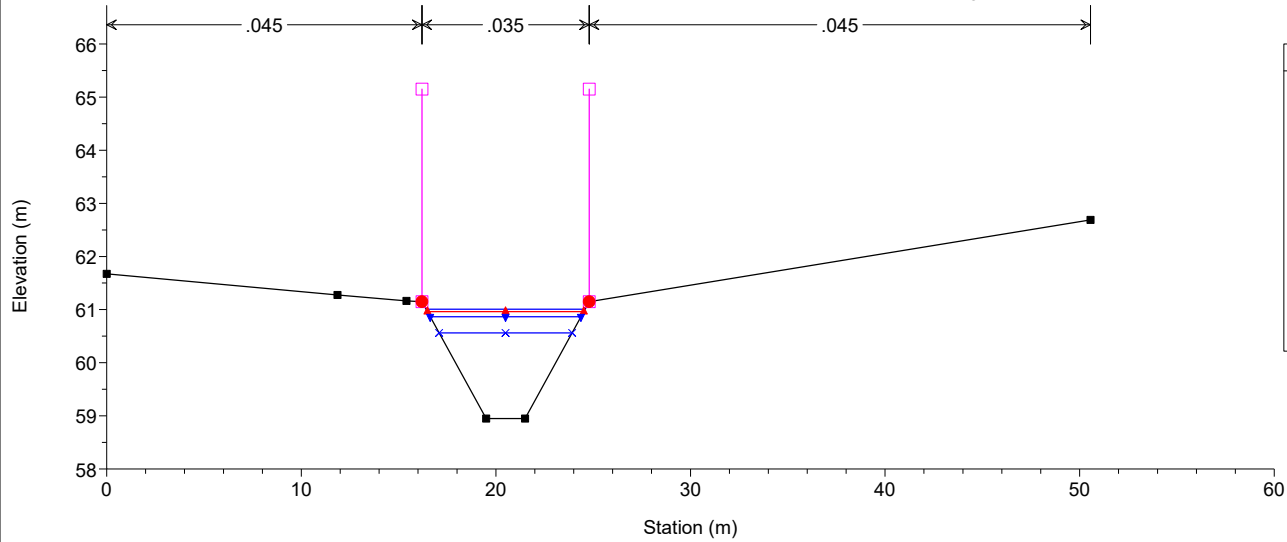


RS = 30 Risagomata

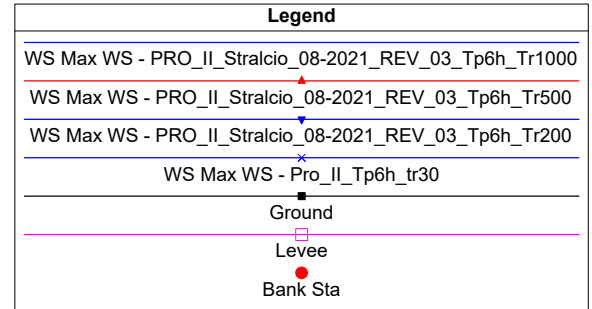
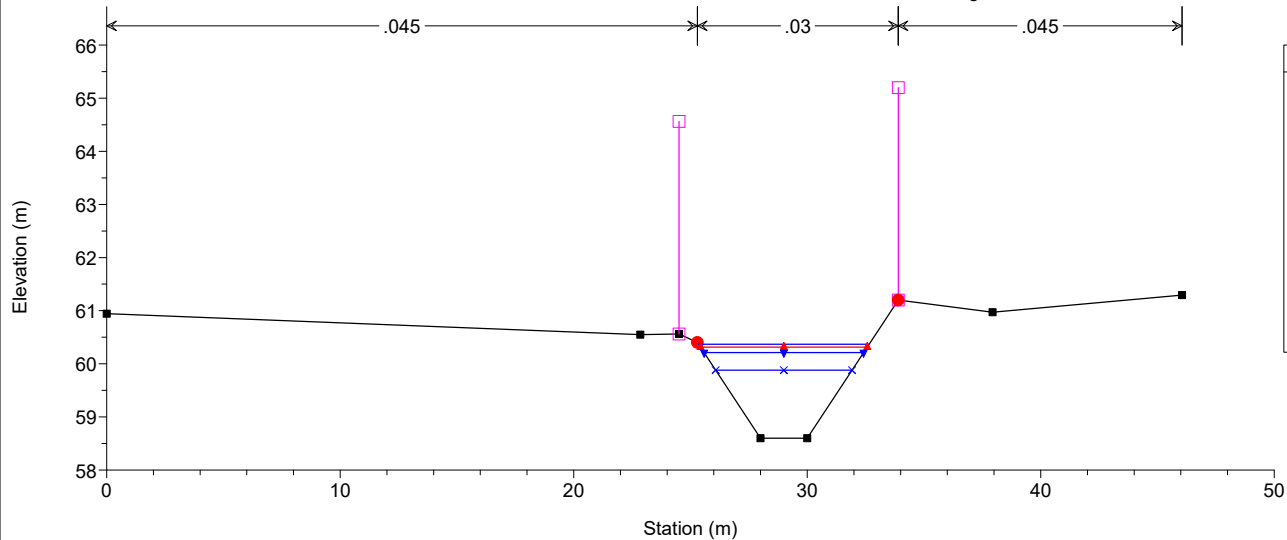




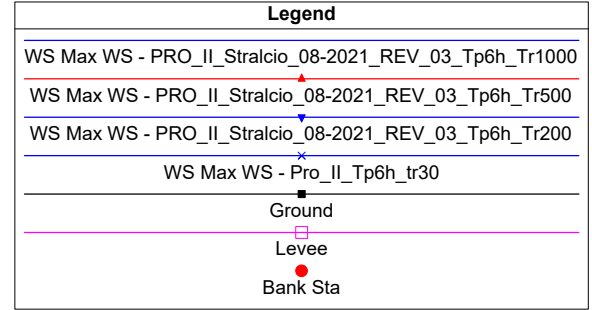
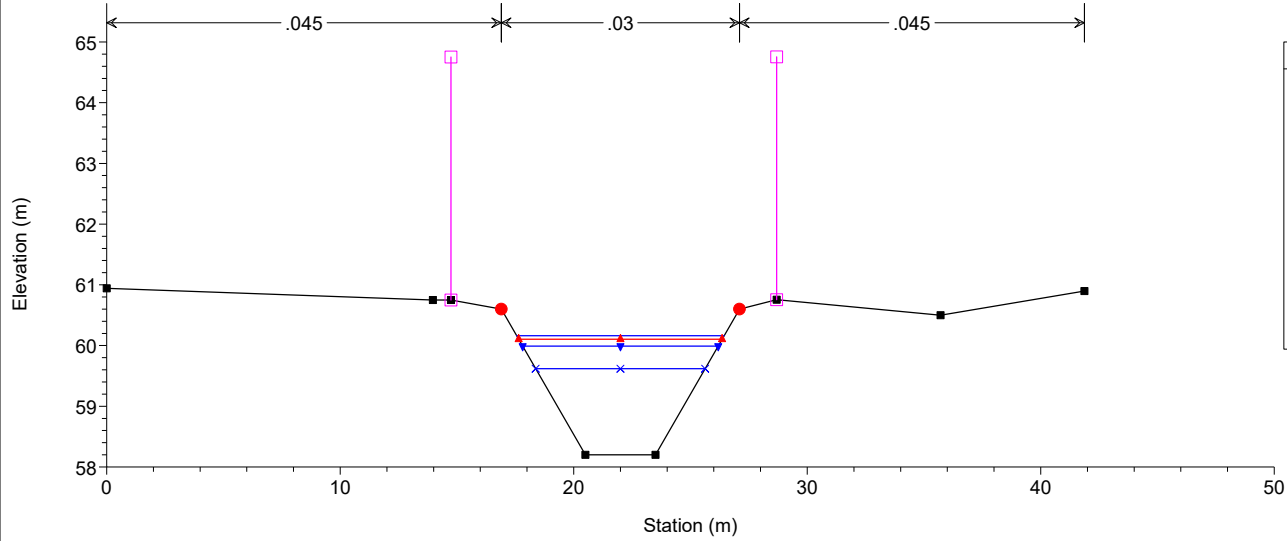
RS = 27 Risagomata



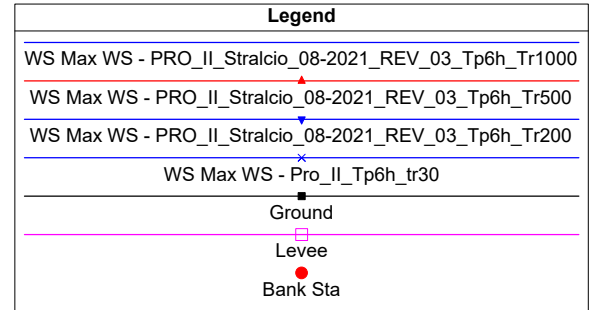
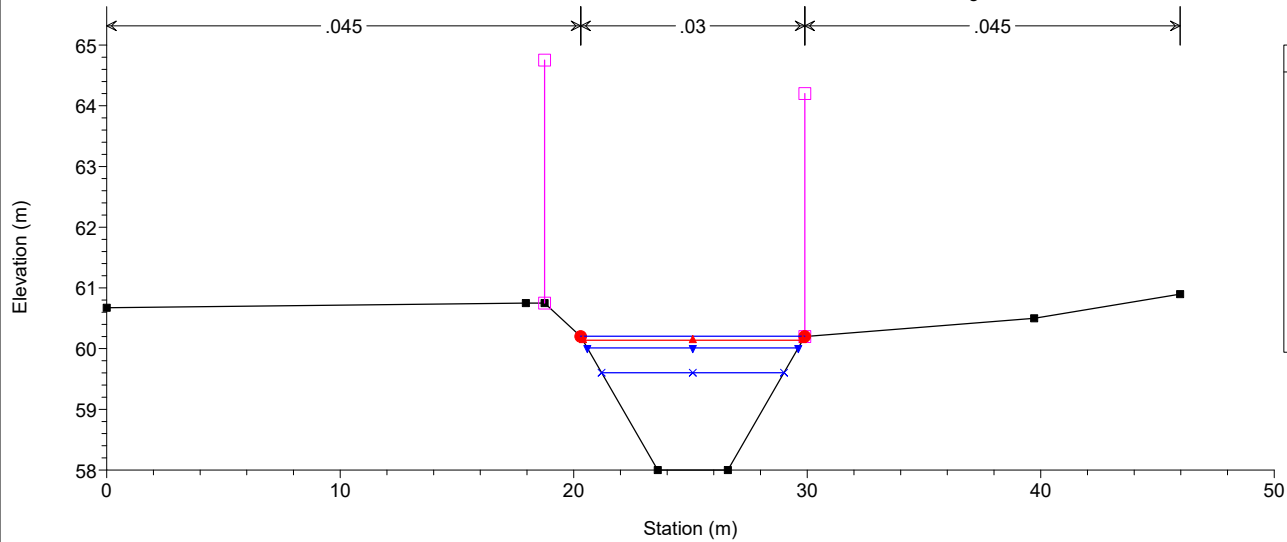
RS = 26 Risagomata



RS = 25 Risagomata

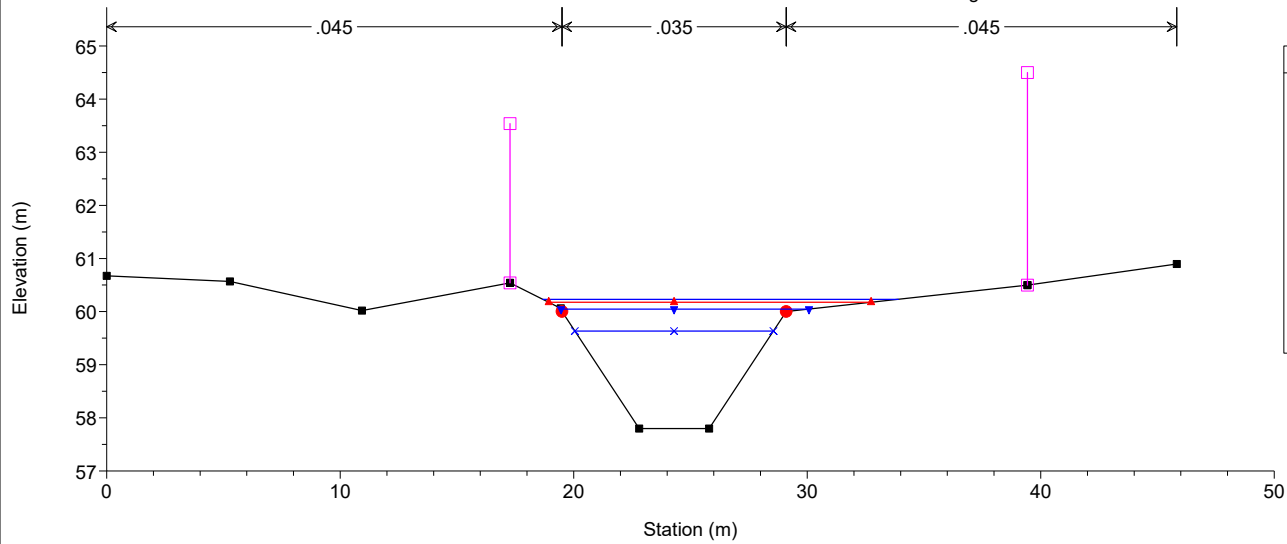


RS = 24 Risagomata



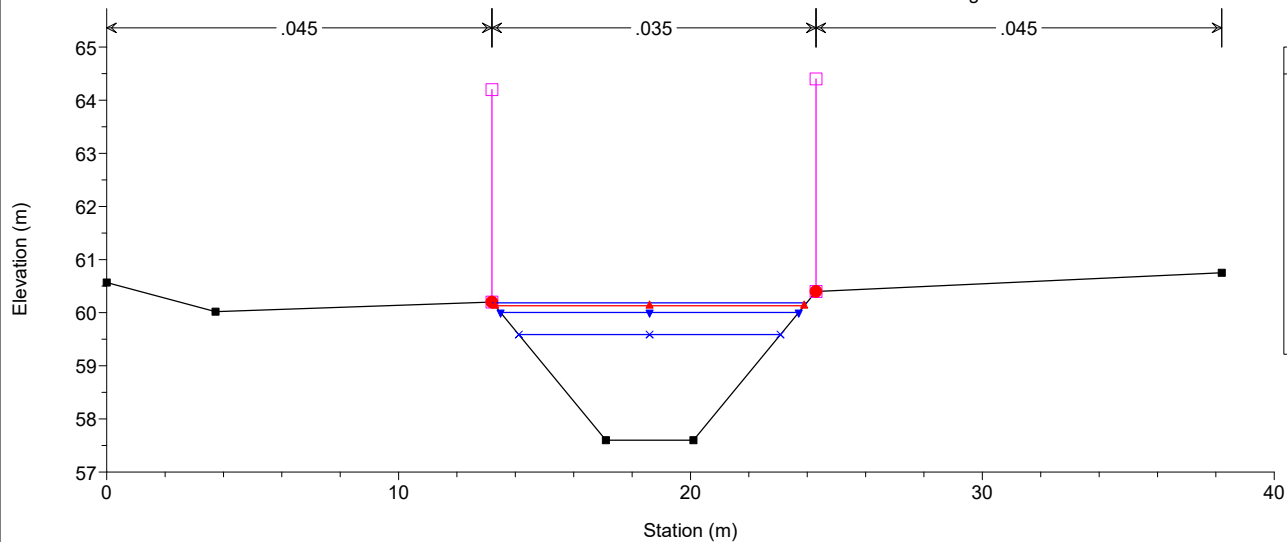


RS = 23 Risagomata



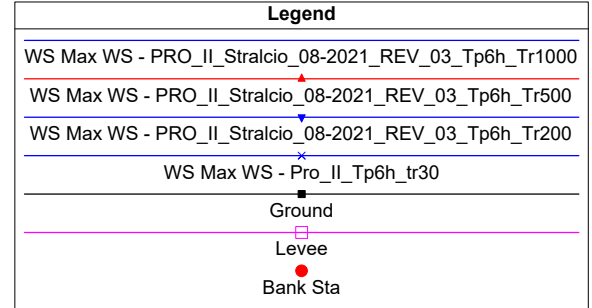
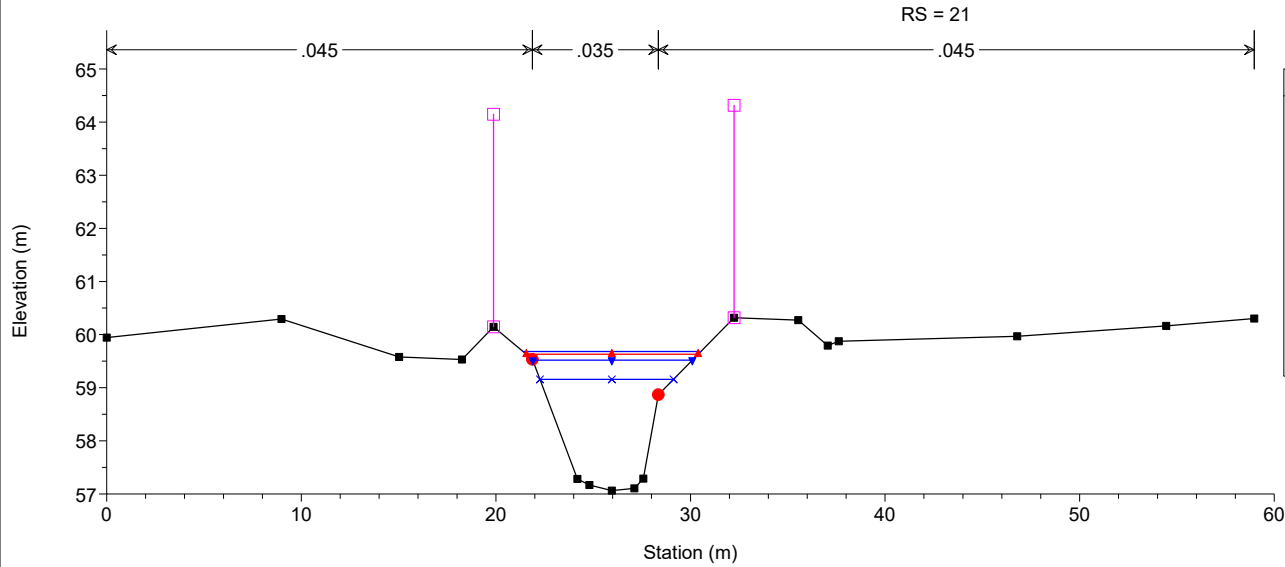
Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	
WS Max WS - Pro_II_Tp6h_tr30	
Ground	
Levee	
Bank Sta	

RS = 22 Risagomata

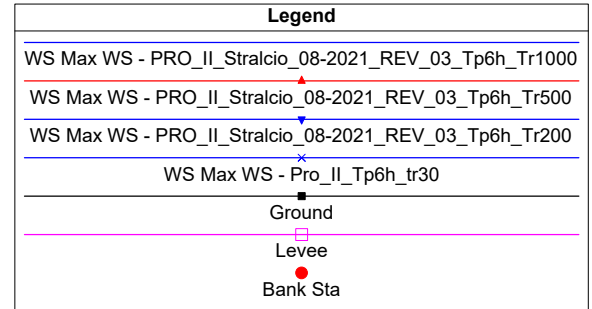
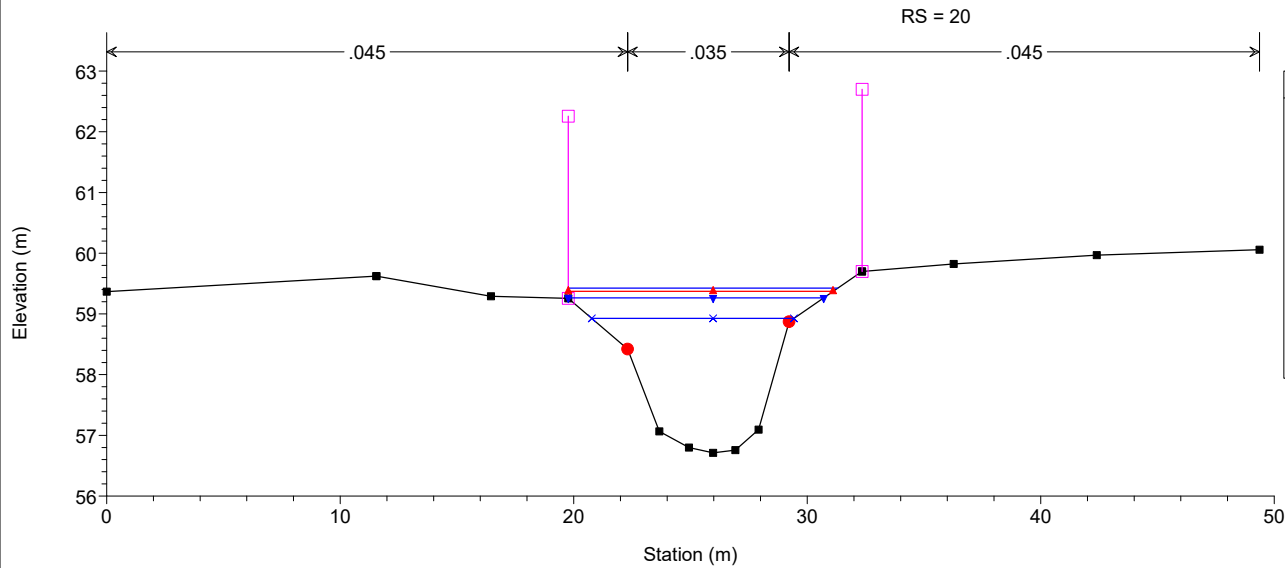


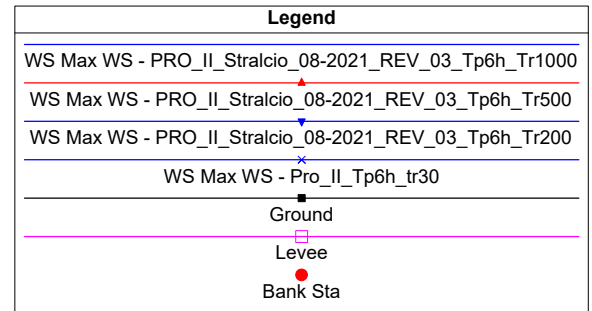
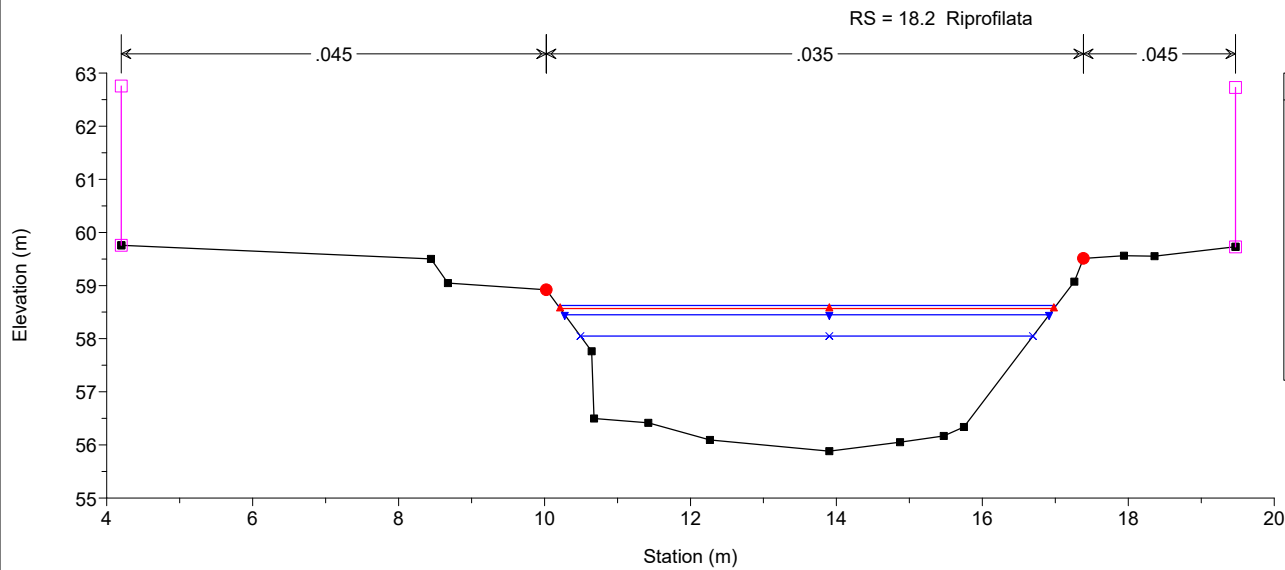
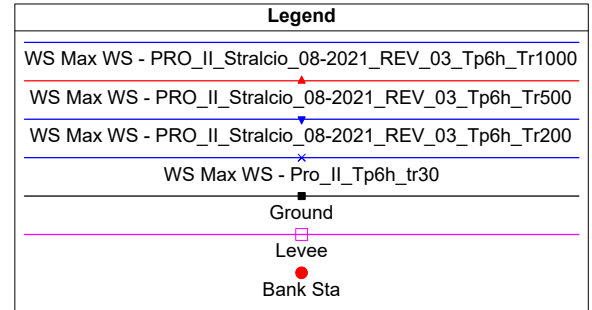
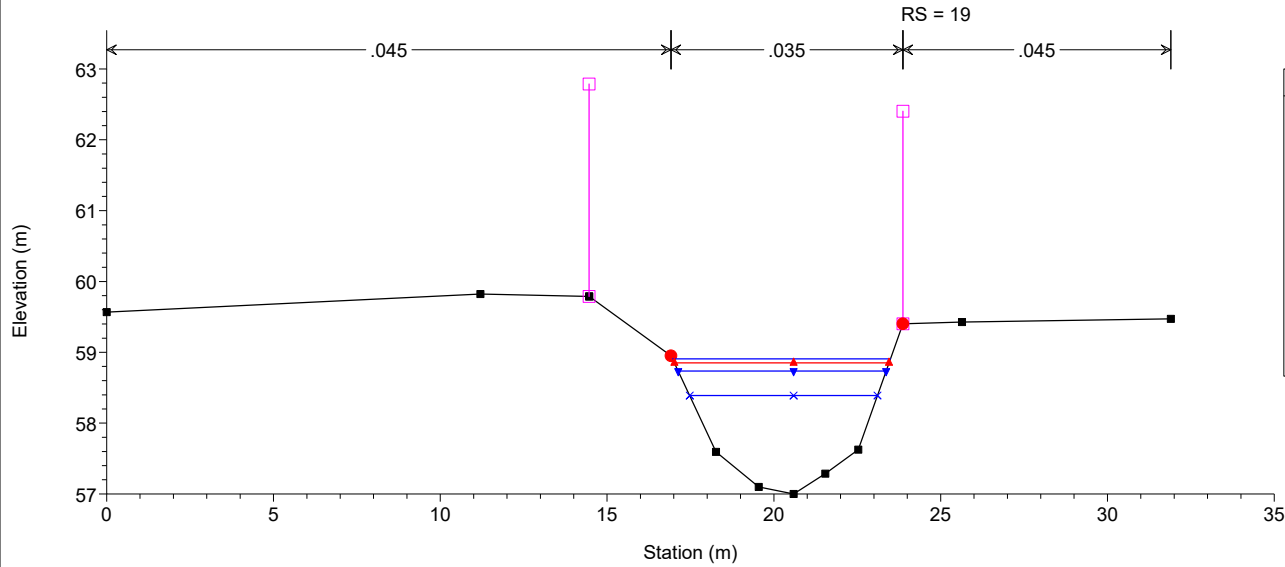
Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	
WS Max WS - Pro_II_Tp6h_tr30	
Ground	
Levee	
Bank Sta	

RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

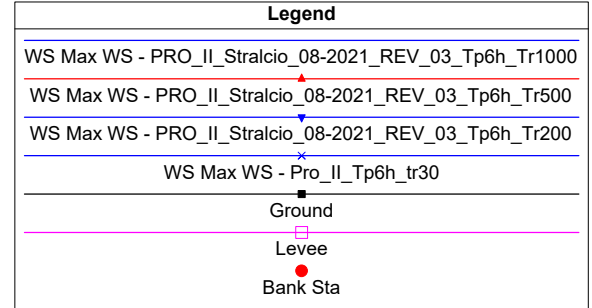
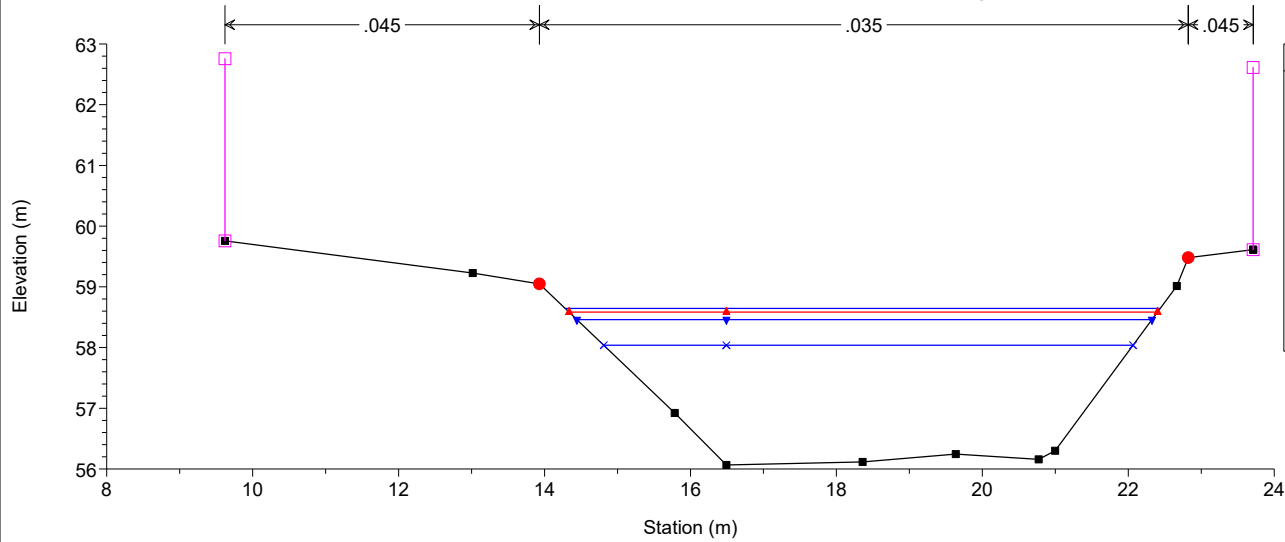


RioPietroso Plan: 1) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stalacio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

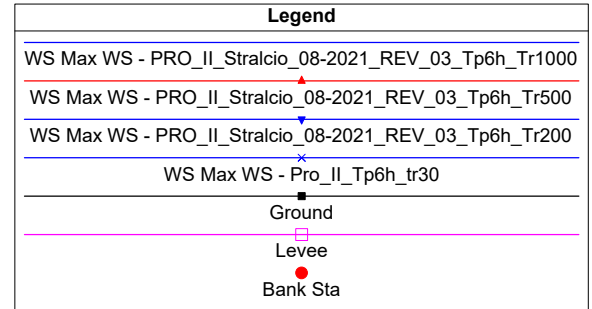
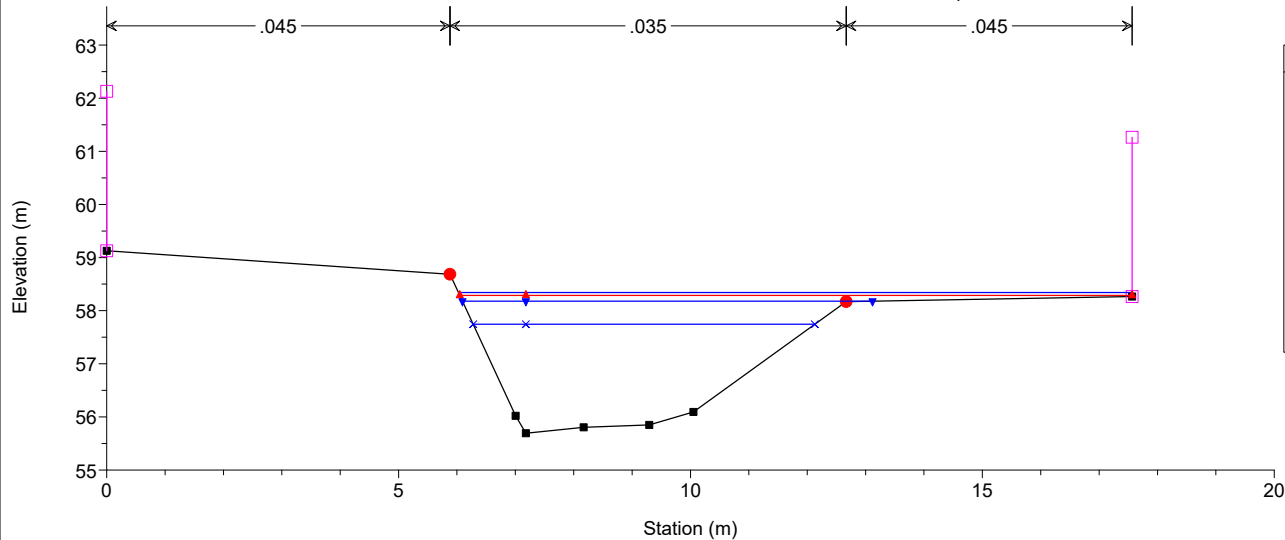




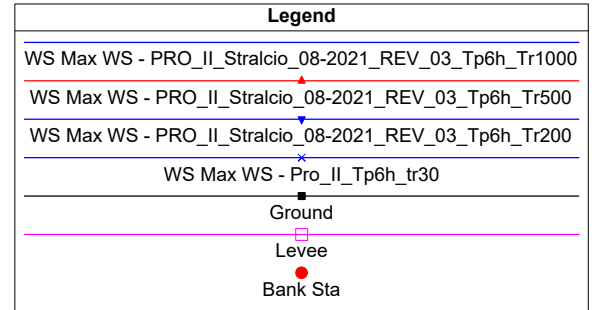
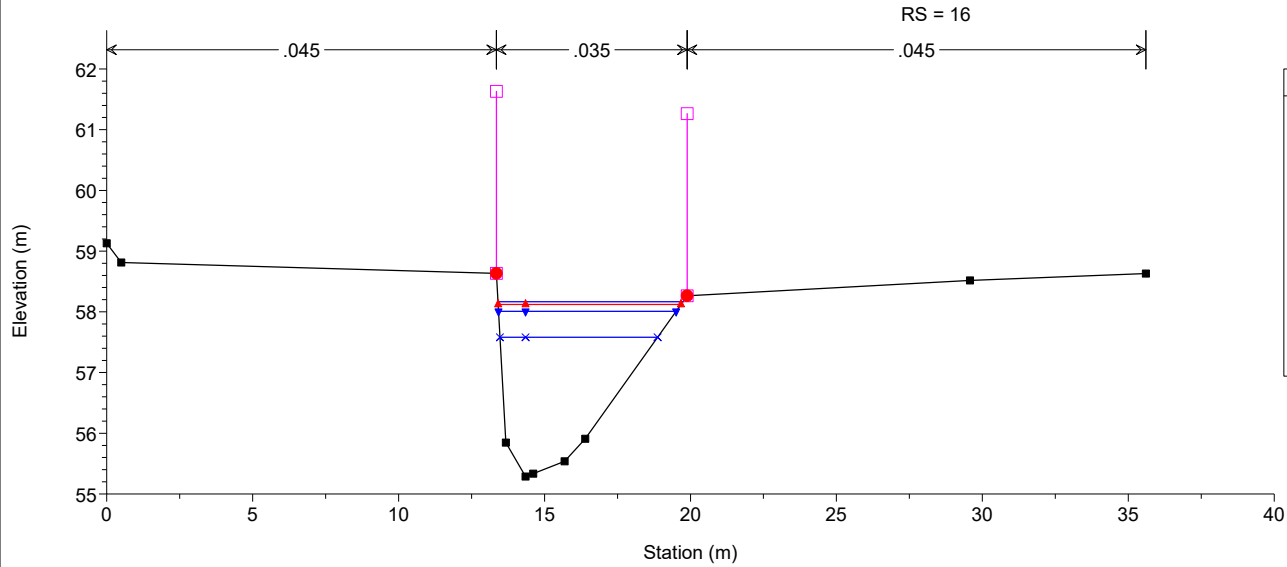
RS = 18.1 Risagomata



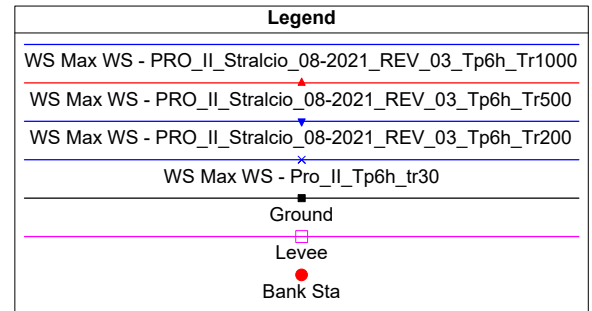
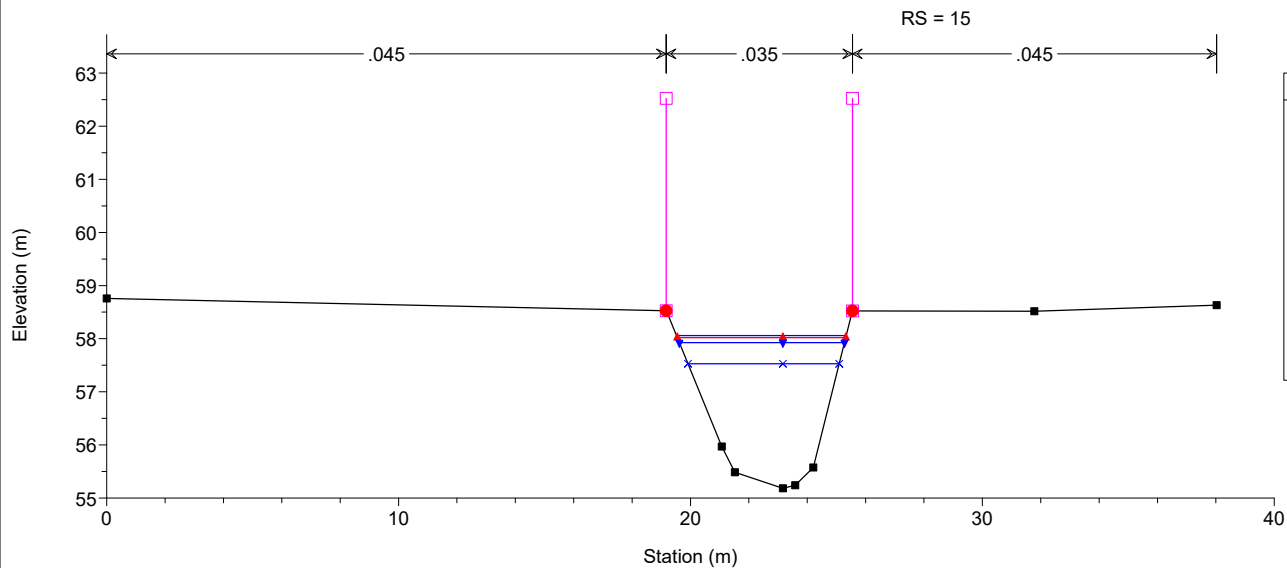
RS = 17 Riprofilata



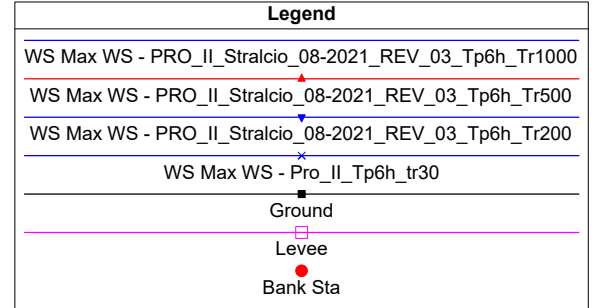
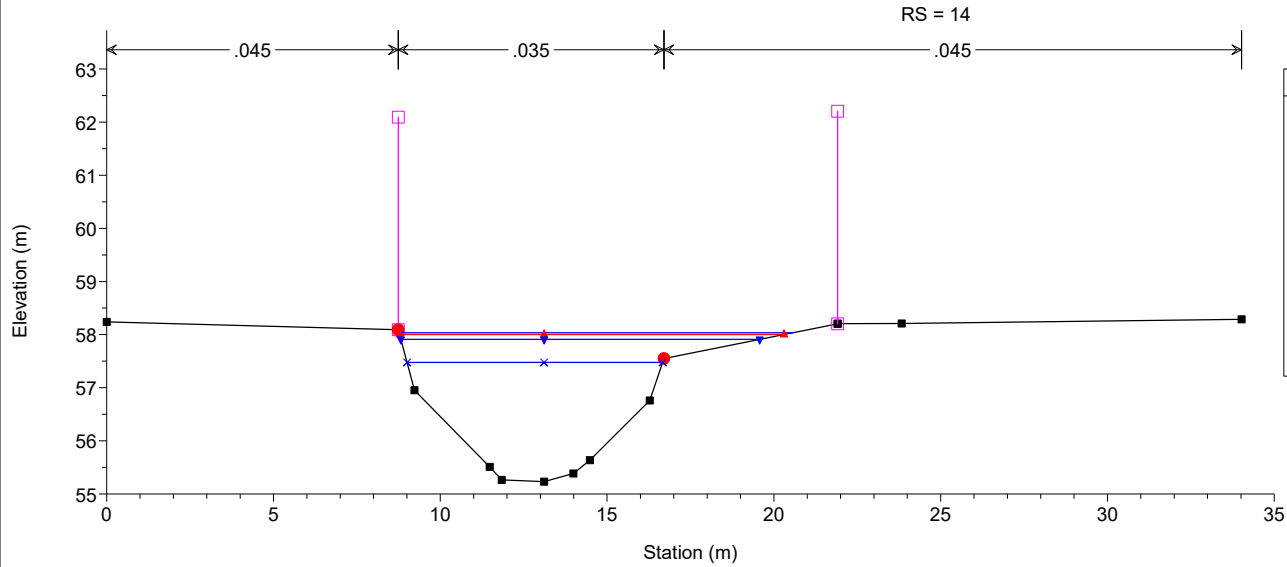
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



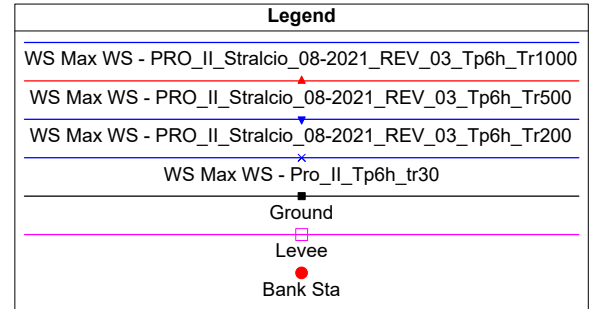
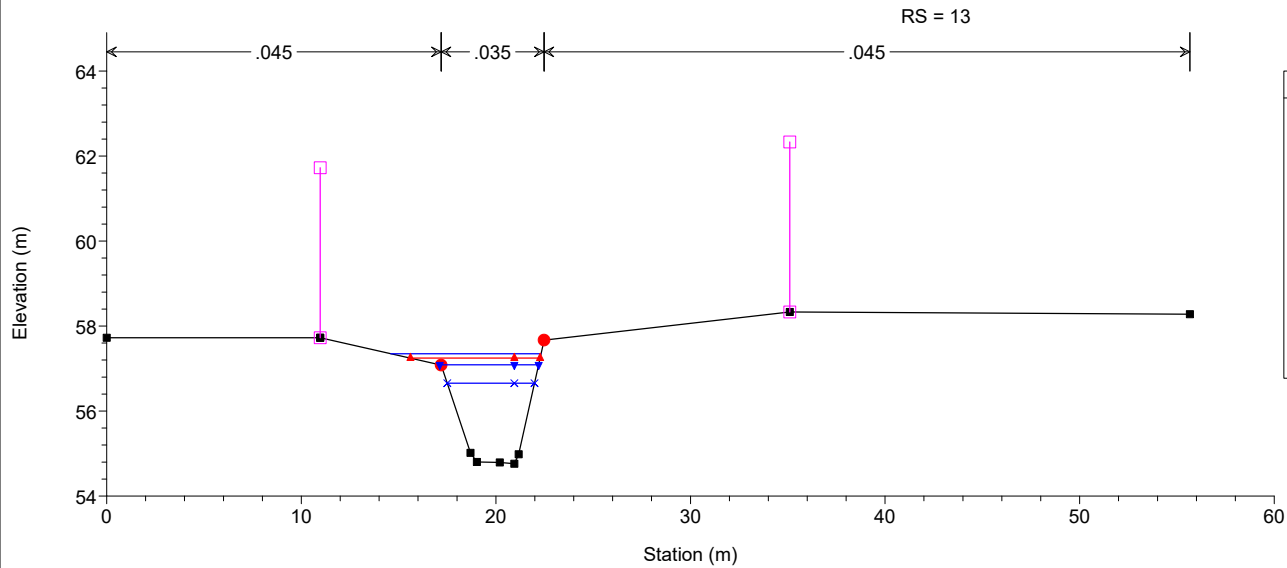
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



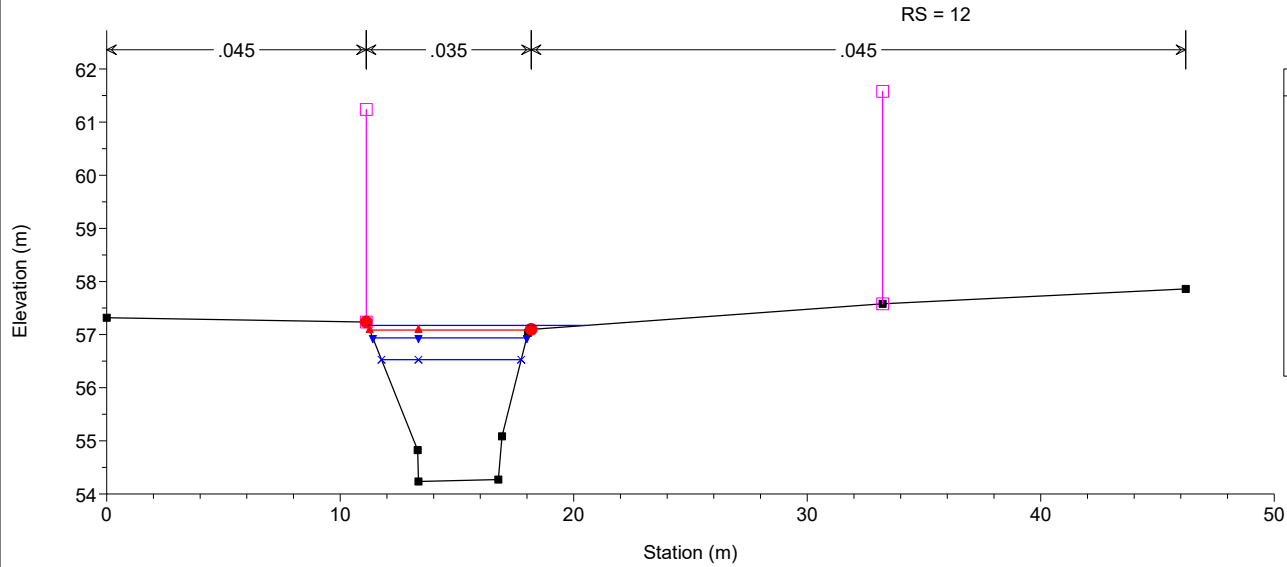
RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

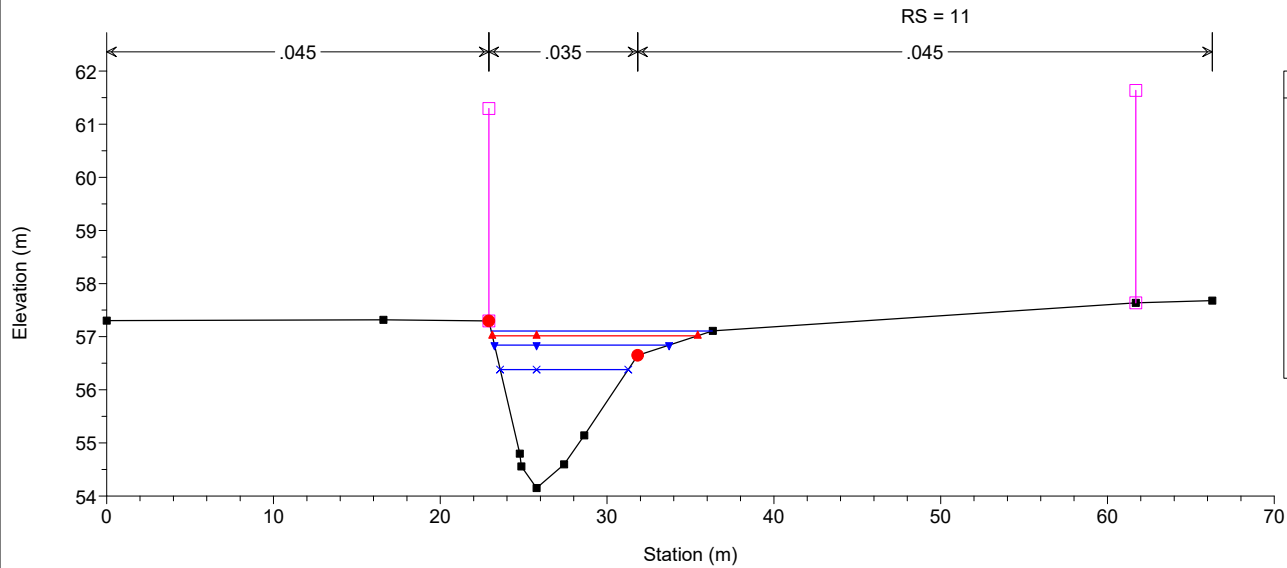


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



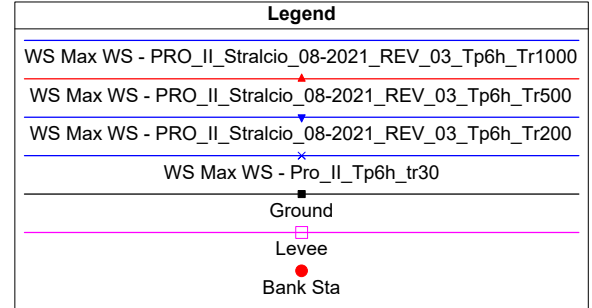
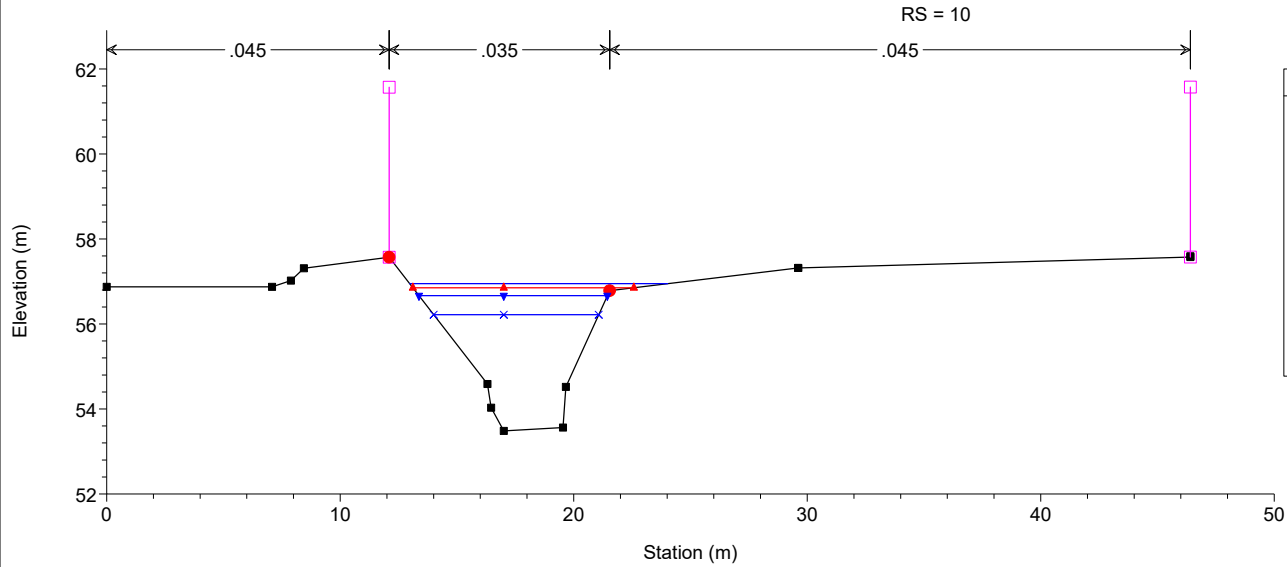
Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	
WS Max WS - Pro_II_Tp6h_tr30	
Ground	
Levee	
Bank Sta	

RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

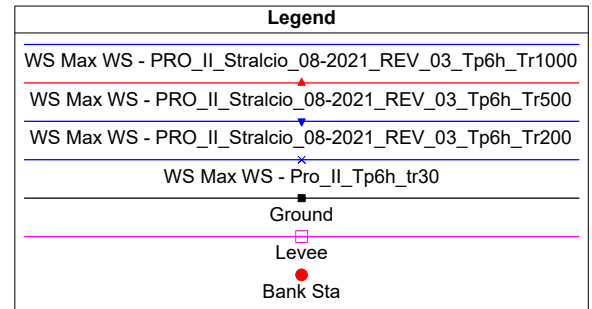
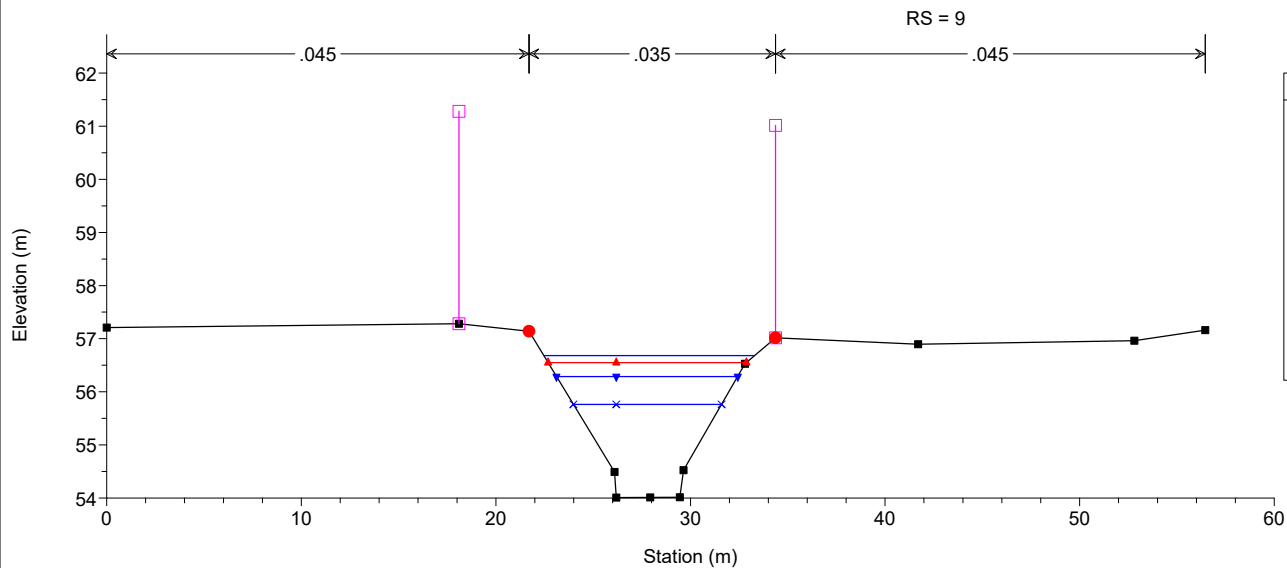


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	
WS Max WS - Pro_II_Tp6h_tr30	
Ground	
Levee	
Bank Sta	

RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

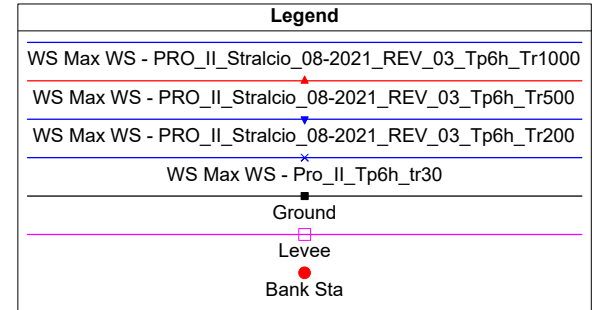
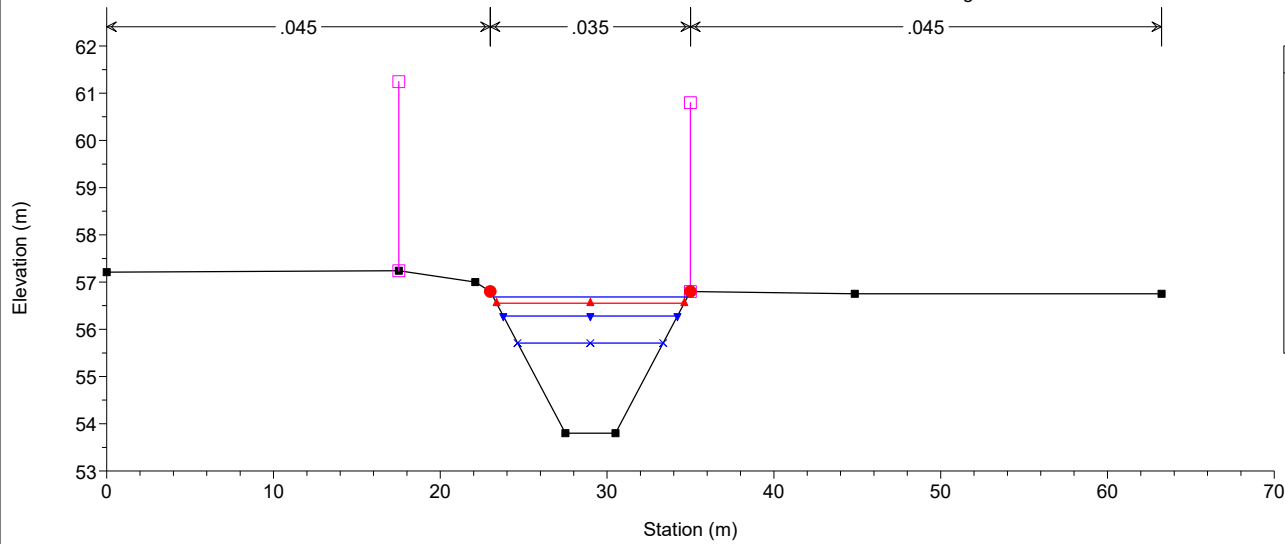


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

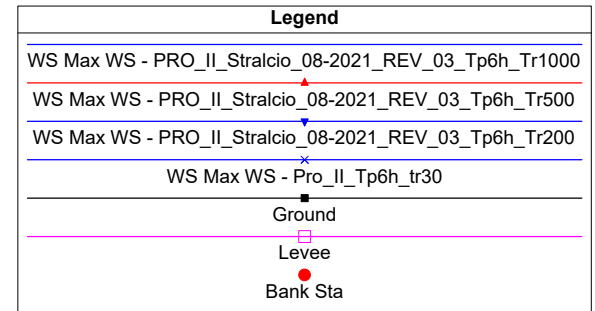
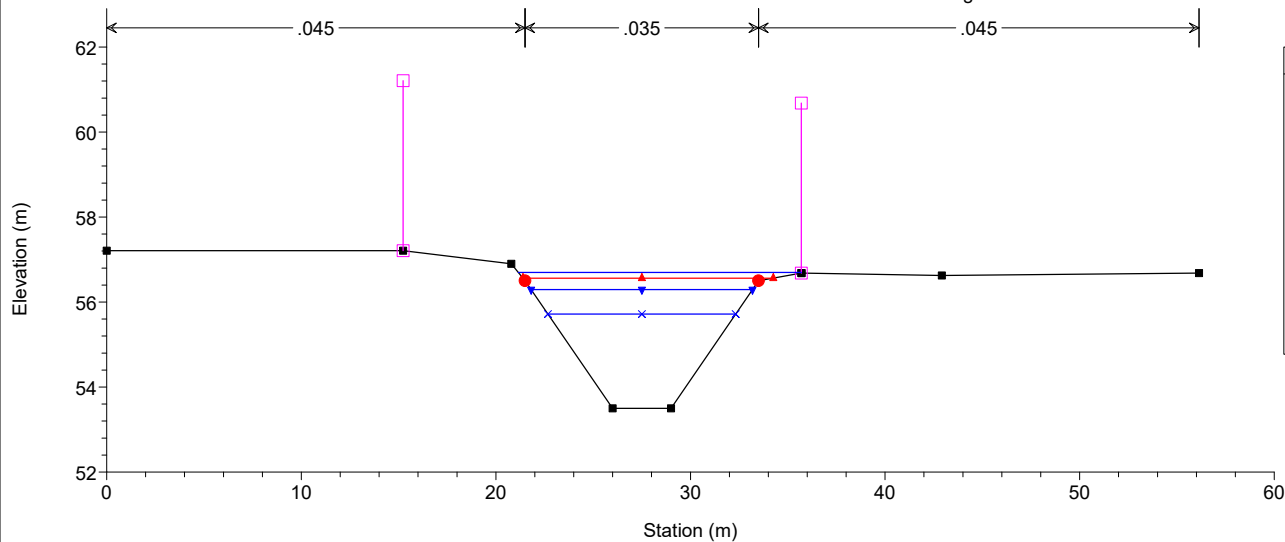




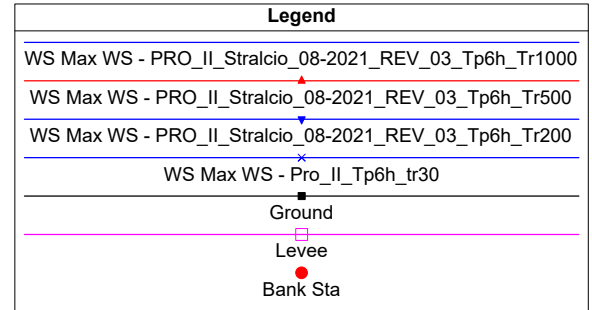
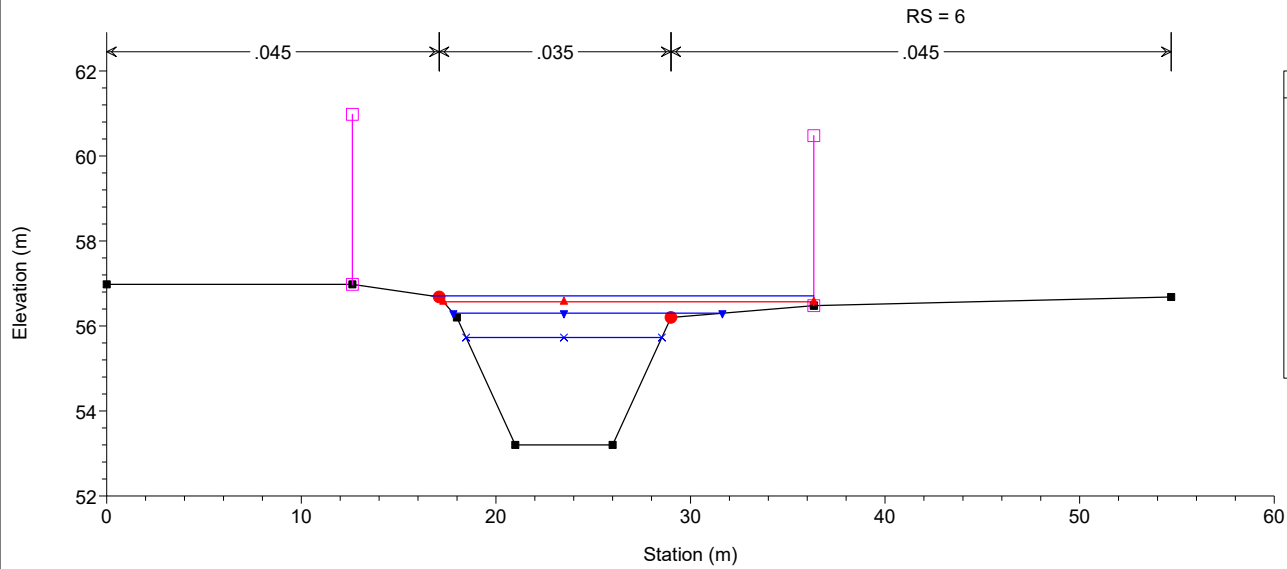
RS = 8 Risagomata



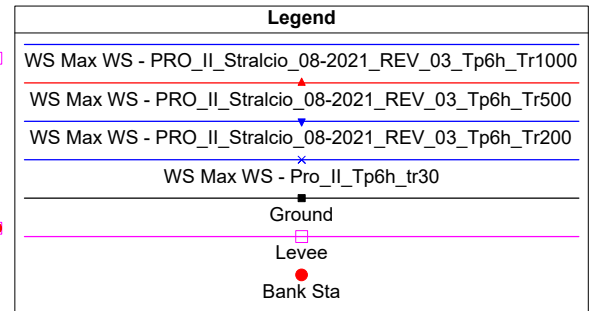
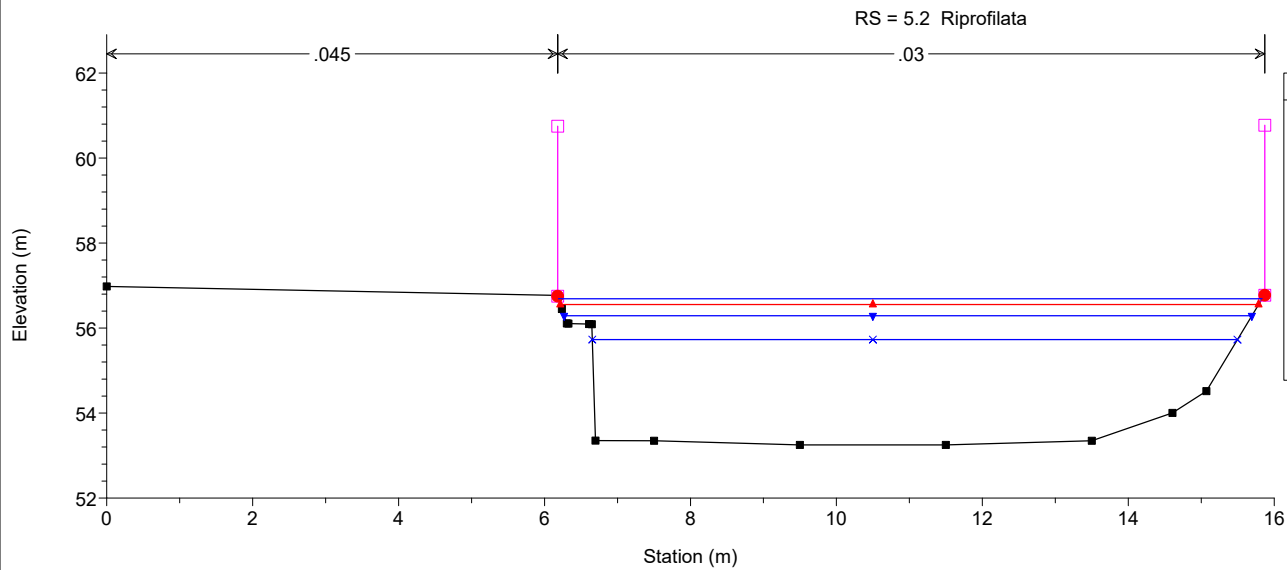
RS = 7 Risagomata

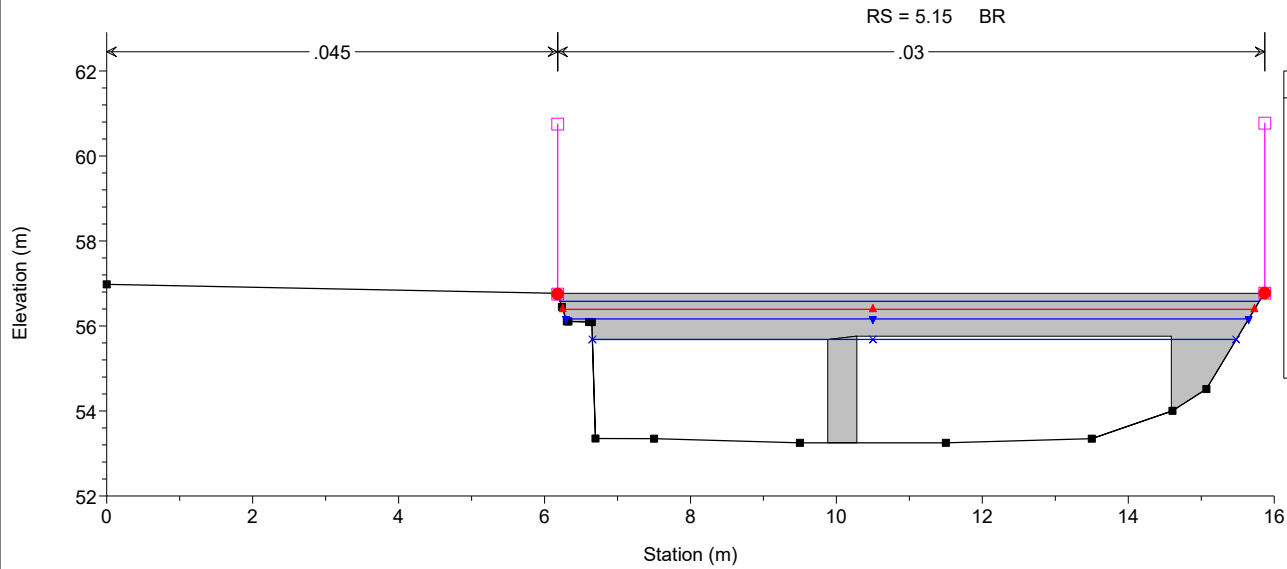


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023

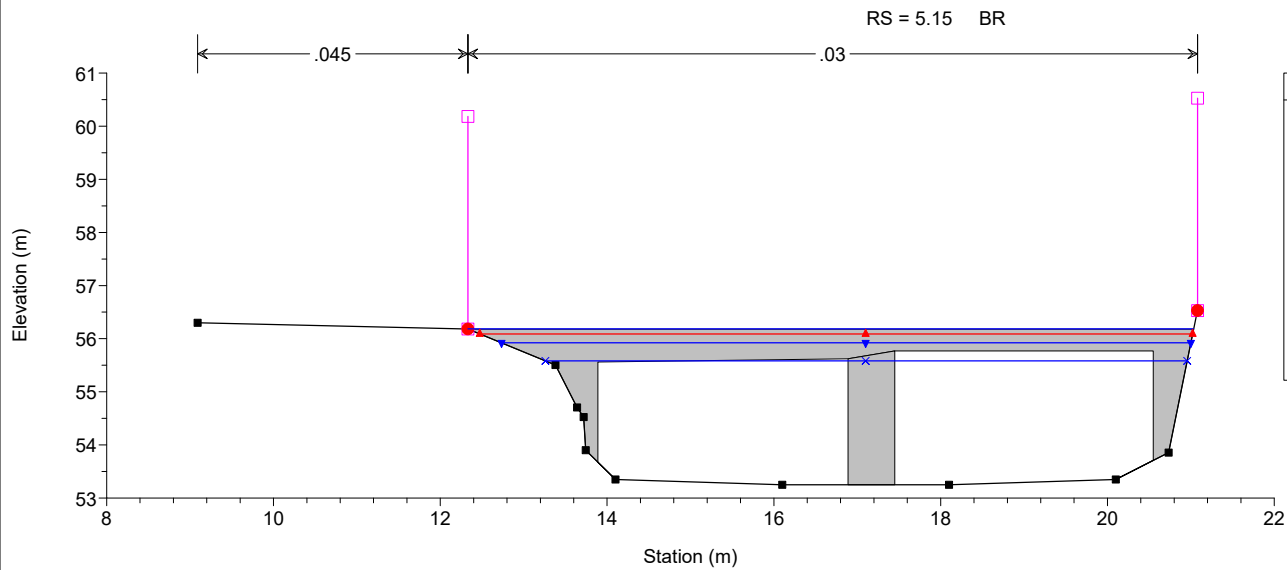


RioPietroso Plan: 1) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr1000 8/27/2021 2) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr500 8/27/2021 3) PRO\_II\_Stralcio\_08-2021\_REV\_03\_Tp6h\_Tr200 8/27/2021 4) Pro\_II\_Tp6h\_tr30 1/30/2023



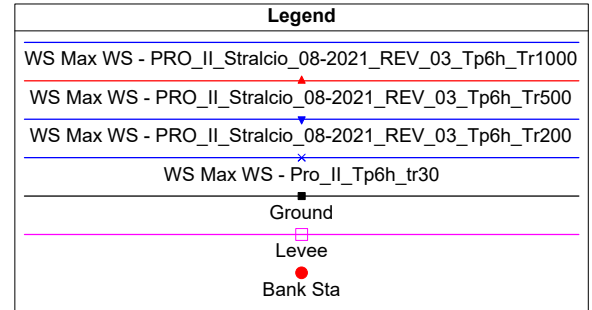
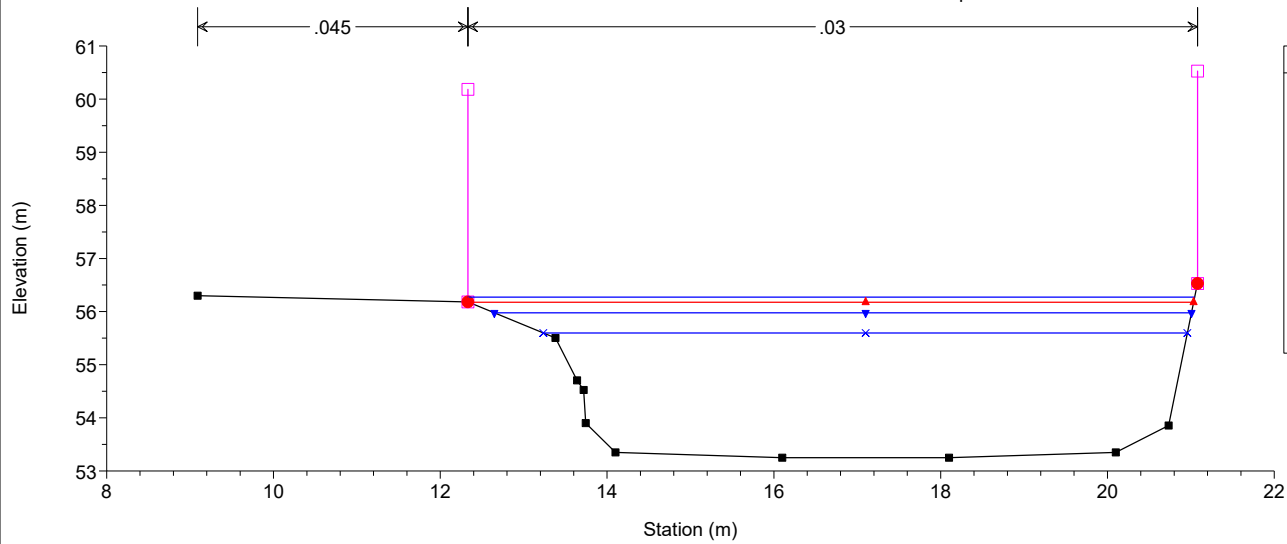


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	
WS Max WS - Pro_II_Tp6h_tr30	
Ground	
Levee	
Bank Sta	

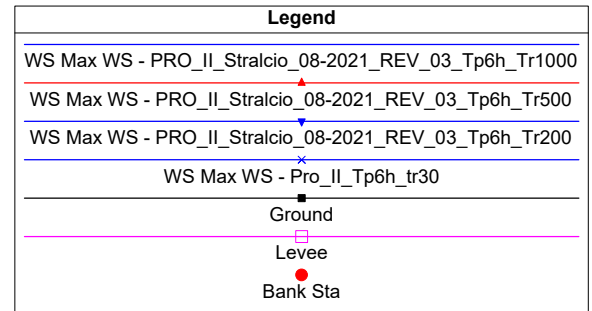
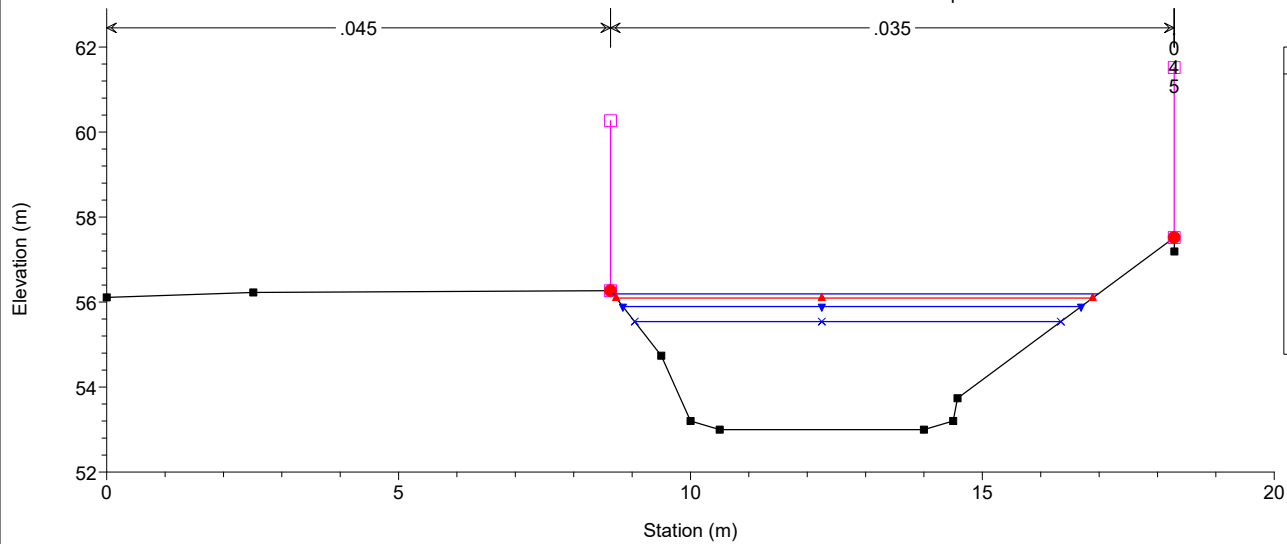


Legend	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	
WS Max WS - PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	
WS Max WS - Pro_II_Tp6h_tr30	
Ground	
Levee	
Bank Sta	

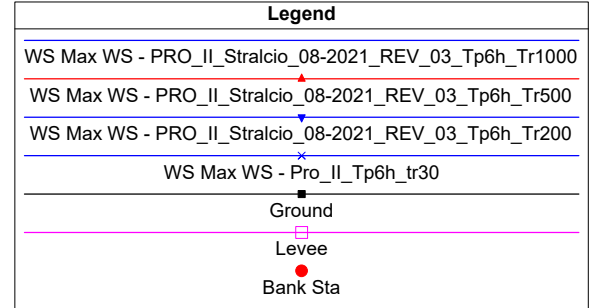
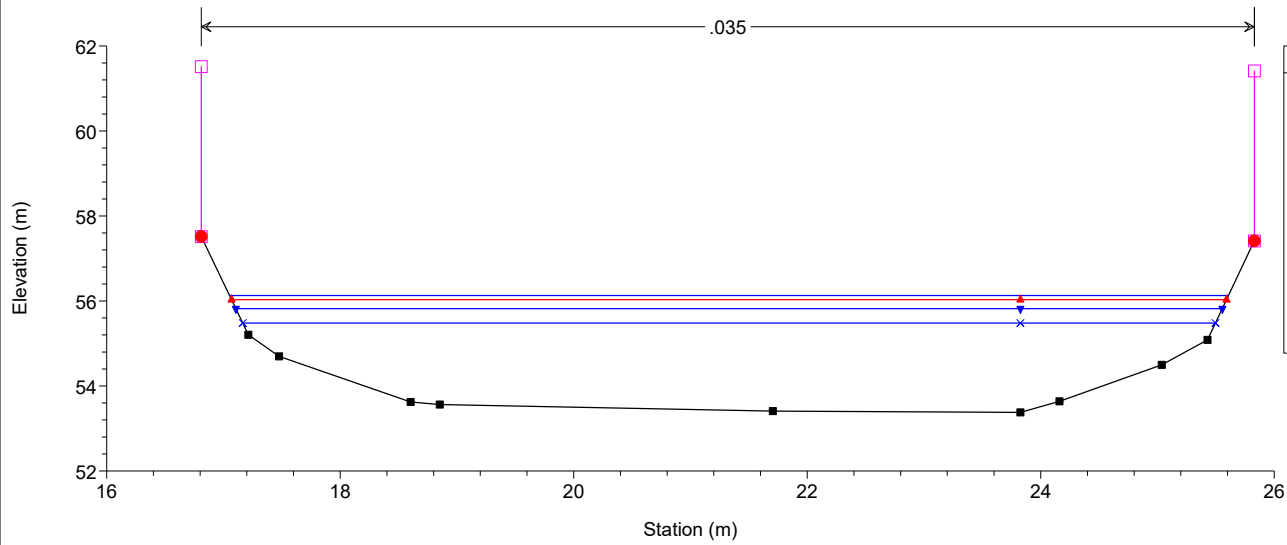
RS = 5.1 Riprofilata



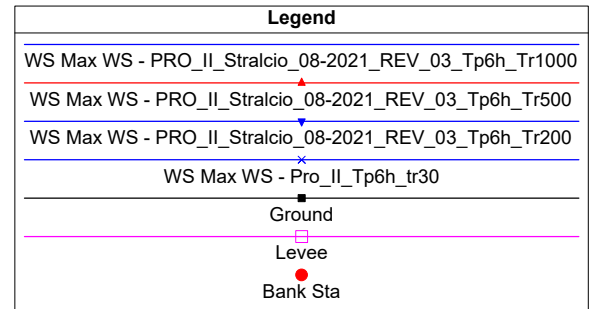
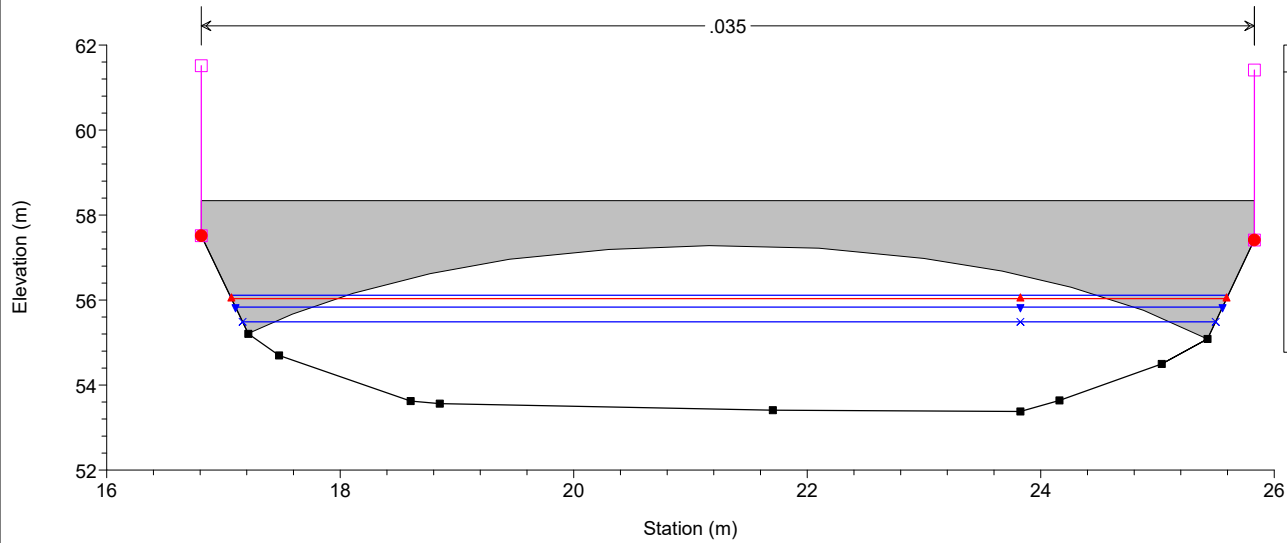
RS = 4 Riprofilata



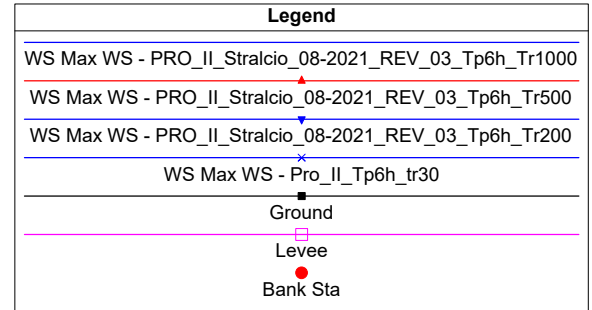
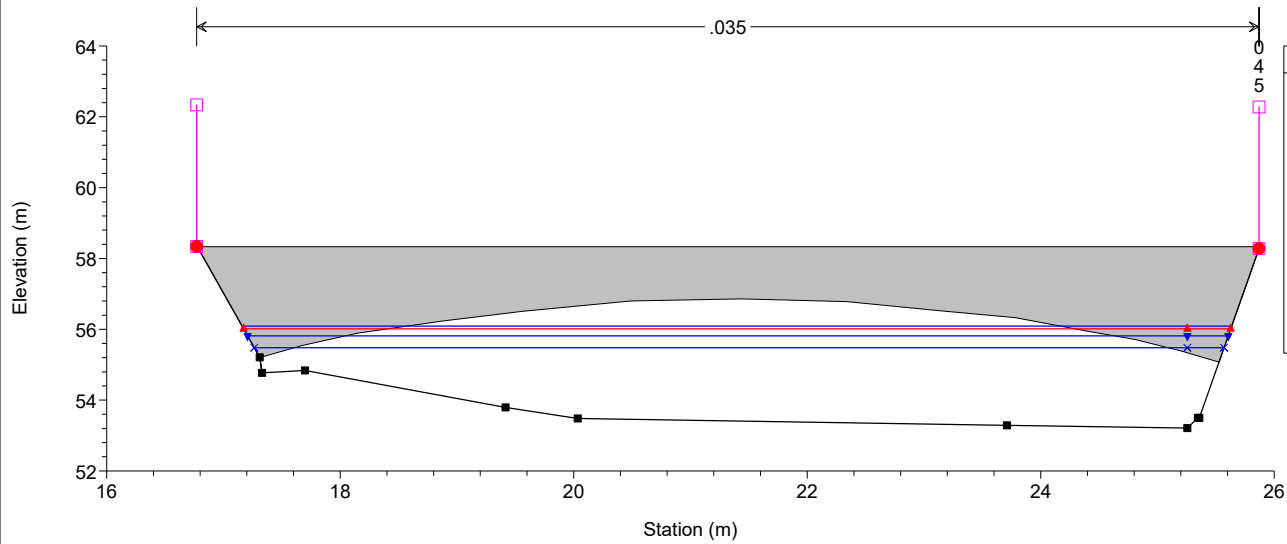
RS = 3.2



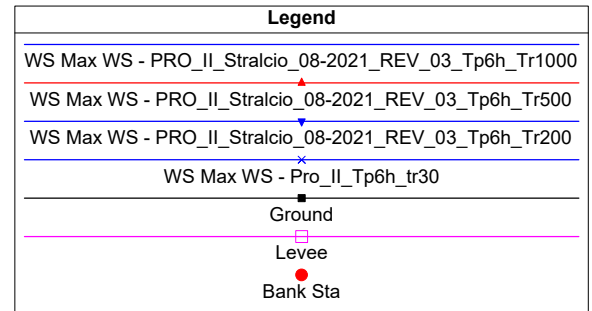
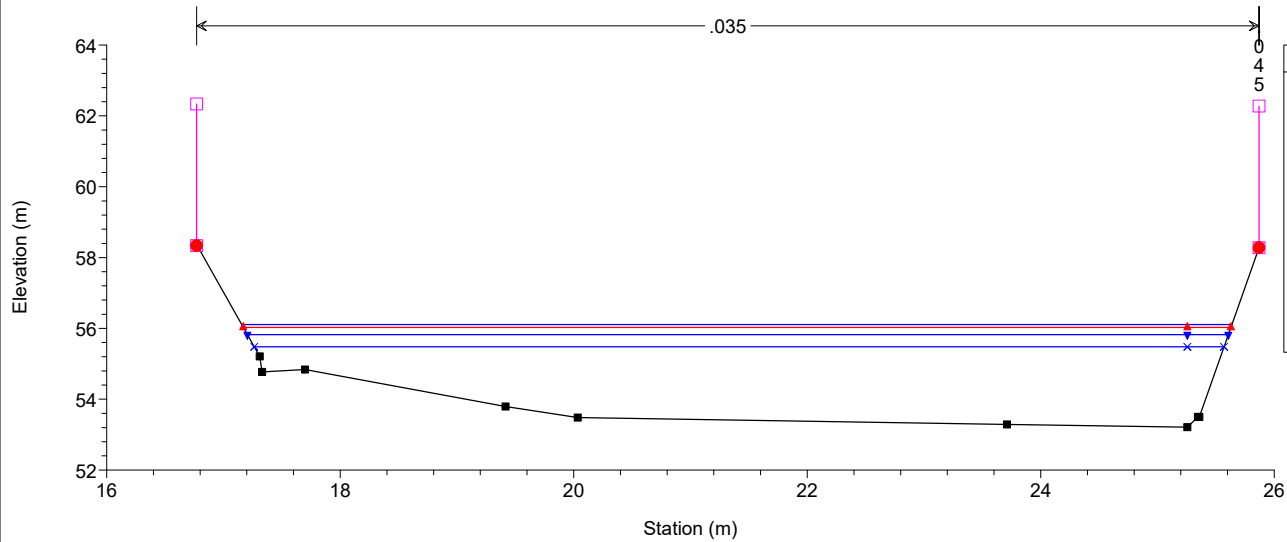
RS = 3.15 BR

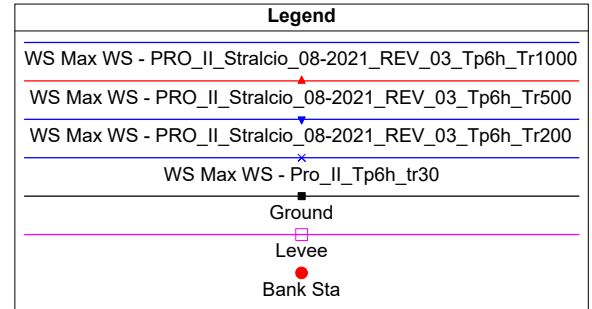
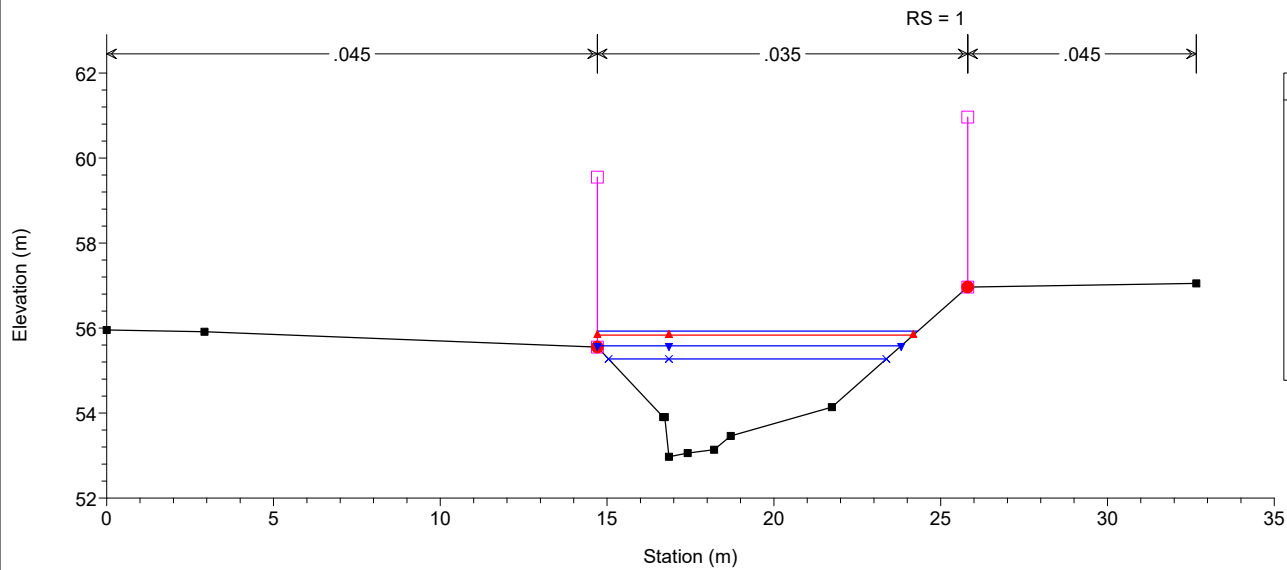
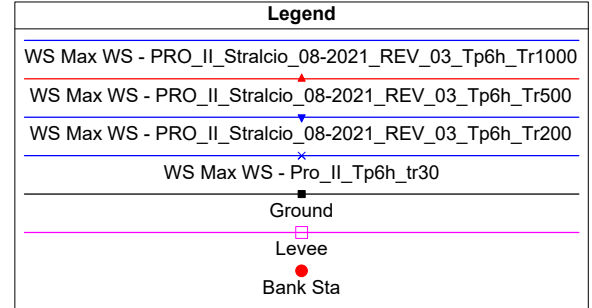
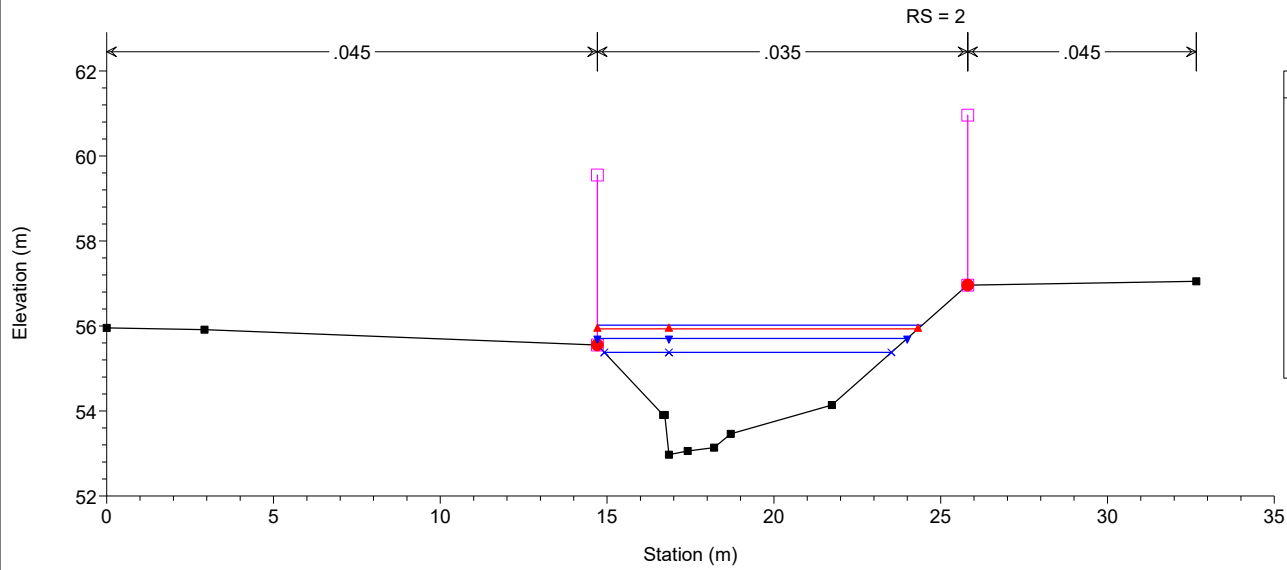


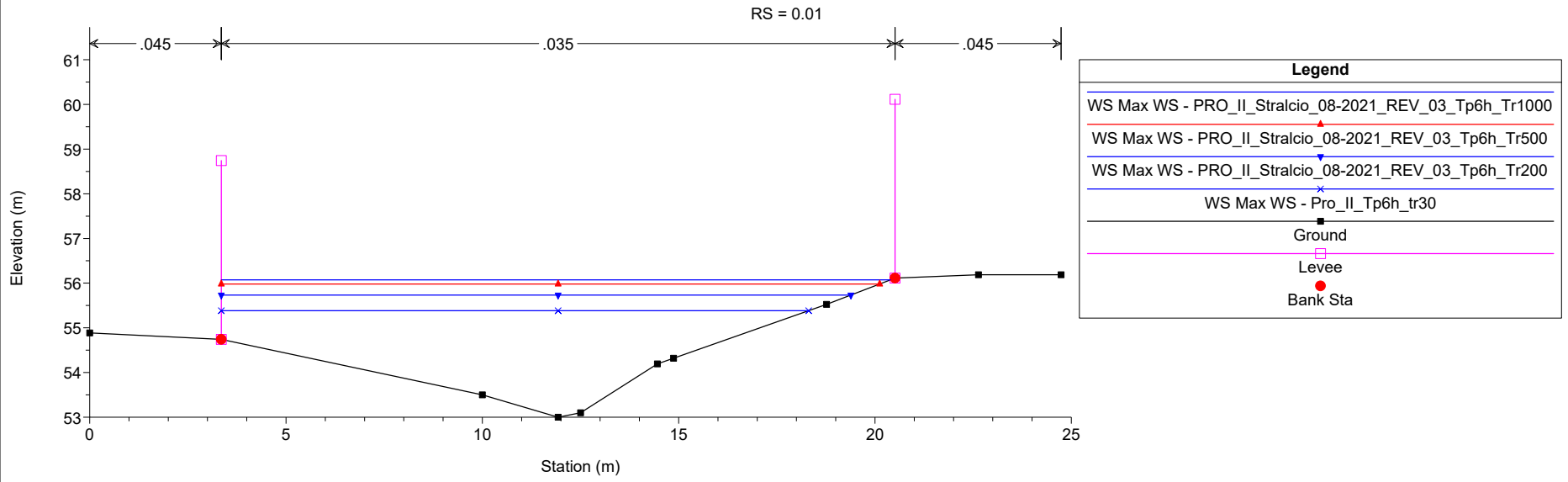
RS = 3.15 BR



RS = 3.1









HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS

Reach	River Sta	Profile	Plan	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
Arnese	55	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.54	70.70	73.90		73.99	0.000848	1.27	33.06	18.57	0.28
Arnese	55	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.96	70.70	73.81		73.89	0.000851	1.25	31.43	17.67	0.28
Arnese	55	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.73	70.70	73.56		73.64	0.000944	1.24	27.24	15.11	0.29
Arnese	55	Max WS	Pro_II_Tp6h_tr30	22.13	70.70	73.02		73.08	0.000981	1.12	19.76	12.96	0.29
Arnese	54	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	45.74	70.68	73.44		74.24	0.013586	3.97	11.53	6.02	0.90
Arnese	54	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.96	70.68	73.31		73.98	0.011732	3.61	10.80	5.62	0.83
Arnese	54	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.73	70.68	73.07		73.72	0.012492	3.56	9.46	5.36	0.86
Arnese	54	Max WS	Pro_II_Tp6h_tr30	22.13	70.68	72.57		73.09	0.012482	3.20	6.91	4.82	0.85
Arnese	53	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.89	69.93	73.21	72.55	73.60	0.006011	2.90	19.20	32.83	0.61
Arnese	53	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.96	69.93	73.07	72.55	73.53	0.007370	3.08	14.75	27.66	0.66
Arnese	53	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.73	69.93	72.91		73.35	0.007353	2.95	11.72	7.56	0.66
Arnese	53	Max WS	Pro_II_Tp6h_tr30	22.13	69.93	72.40		72.73	0.007213	2.58	8.59	5.23	0.64
Arnese	52	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.79	69.70	73.12		73.27	0.002840	2.03	33.85	52.05	0.42
Arnese	52	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.96	69.70	72.85	72.37	73.17	0.005890	2.70	20.98	40.36	0.60
Arnese	52	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.73	69.70	72.66		73.13	0.008543	3.06	11.04	5.89	0.71
Arnese	52	Max WS	Pro_II_Tp6h_tr30	22.13	69.70	72.09		72.49	0.008688	2.78	7.97	5.04	0.71
Arnese	51	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.78	69.37	73.10		73.15	0.001068	1.34	54.19	65.89	0.25
Arnese	51	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.93	69.37	72.73		72.86	0.002712	1.95	32.66	49.61	0.40
Arnese	51	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.73	69.37	72.32	71.85	72.69	0.007300	2.85	16.50	35.38	0.63
Arnese	51	Max WS	Pro_II_Tp6h_tr30	22.12	69.37	71.47		72.07	0.015084	3.44	6.44	4.28	0.89
Arnese	50	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.76	68.35	73.07		73.08	0.000070	0.47	149.62	97.65	0.08
Arnese	50	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.92	68.35	72.67		72.68	0.000139	0.61	110.78	93.25	0.11
Arnese	50	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.69	68.35	72.02		72.06	0.000568	1.06	56.59	74.80	0.21
Arnese	50	Max WS	Pro_II_Tp6h_tr30	22.02	68.35	70.72		70.98	0.005131	2.26	9.73	6.40	0.59
Arnese	49.5	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.76	68.17	73.07		73.08	0.000030	0.30	210.51	115.26	0.05
Arnese	49.5	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.92	68.17	72.67		72.67	0.000050	0.35	166.04	103.64	0.07
Arnese	49.5	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.59	68.17	72.03		72.04	0.000131	0.48	106.01	85.10	0.10
Arnese	49.5	Max WS	Pro_II_Tp6h_tr30	21.60	68.17	70.58		70.80	0.004183	2.09	10.35	7.44	0.53
Arnese	49.4	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.76	68.00	73.04	70.08	73.10	0.000370	1.07	38.92	106.69	0.18
Arnese	49.4	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.92	68.00	72.62	70.00	72.69	0.000486	1.13	34.37	98.90	0.20
Arnese	49.4	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.40	68.00	71.97	69.84	72.05	0.000693	1.22	27.42	90.65	0.24
Arnese	49.4	Max WS	Pro_II_Tp6h_tr30	20.77	68.00	70.52	69.39	70.63	0.001799	1.46	14.19	8.07	0.35
Arnese	49.25			Inl Struct									
Arnese	49.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	41.17	67.80	70.43		70.81	0.005984	2.73	15.08	8.81	0.64
Arnese	49.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	38.89	67.80	70.31		70.70	0.006467	2.76	14.08	8.02	0.67
Arnese	49.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	33.26	67.80	70.25		70.56	0.005187	2.44	13.61	7.90	0.59
Arnese	49.1	Max WS	Pro_II_Tp6h_tr30	23.03	67.80	69.95		70.16	0.004097	2.03	11.33	7.30	0.52

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	49	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	40.91	67.74	70.36	70.28	71.15	0.014494	3.95	10.39	8.41	0.94
Arnese	49	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	38.88	67.74	70.22	70.22	71.06	0.016289	4.05	9.59	5.68	1.00
Arnese	49	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	34.10	67.74	70.12	70.06	70.85	0.014823	3.78	9.01	5.57	0.95
Arnese	49	Max WS	Pro_II_Tp6h_tr30	22.81	67.74	69.75		70.29	0.013165	3.25	7.01	5.16	0.89
Arnese	48	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	38.38	67.42	70.00		70.10	0.001775	1.66	40.96	86.09	0.37
Arnese	48	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	36.70	67.42	69.82	69.15	70.00	0.002970	2.05	27.40	65.48	0.48
Arnese	48	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	33.33	67.42	69.78		69.95	0.002795	1.96	24.81	60.73	0.46
Arnese	48	Max WS	Pro_II_Tp6h_tr30	22.36	67.42	69.51		69.66	0.002527	1.73	12.95	8.02	0.43
Arnese	47	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.87	66.62	69.96		69.98	0.000650	1.03	70.20	90.30	0.20
Arnese	47	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	36.43	66.62	69.59		69.67	0.002079	1.67	41.03	68.78	0.35
Arnese	47	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	33.39	66.62	69.16	69.15	69.56	0.009349	3.09	17.11	43.83	0.71
Arnese	47	Max WS	Pro_II_Tp6h_tr30	22.14	66.62	68.69		69.26	0.014035	3.34	6.62	4.33	0.86
Arnese	46	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.62	65.96	69.94		69.94	0.000021	0.26	249.97	152.83	0.05
Arnese	46	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.82	65.96	69.52		69.53	0.000041	0.34	189.66	138.76	0.06
Arnese	46	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.17	65.96	68.74		68.75	0.000249	0.67	90.93	111.96	0.15
Arnese	46	Max WS	Pro_II_Tp6h_tr30	20.89	65.96	67.56		67.93	0.009667	2.72	7.67	7.02	0.83
Arnese	45	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.62	65.39	69.94		69.94	0.000010	0.19	306.08	139.37	0.03
Arnese	45	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.84	65.39	69.52		69.52	0.000017	0.23	249.04	136.23	0.04
Arnese	45	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.16	65.39	68.73		68.74	0.000071	0.40	143.78	130.24	0.08
Arnese	45	Max WS	Pro_II_Tp6h_tr30	21.11	65.39	67.28		67.49	0.004292	2.01	10.49	7.76	0.55
Arnese	44	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.61	64.35	69.94		69.94	0.000002	0.08	608.96	209.28	0.01
Arnese	44	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.83	64.35	69.52		69.52	0.000003	0.09	523.50	203.95	0.01
Arnese	44	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.15	64.35	68.73		68.73	0.000006	0.12	366.28	193.77	0.02
Arnese	44	Max WS	Pro_II_Tp6h_tr30	22.01	64.35	66.92		66.93	0.000349	0.58	68.71	111.61	0.14
Arnese	43.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.60	64.18	69.94		69.94	0.000001	0.07	765.21	283.42	0.01
Arnese	43.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.81	64.18	69.52		69.52	0.000002	0.08	650.63	270.67	0.01
Arnese	43.5	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	64.18	68.73		68.73	0.000005	0.11	445.12	249.31	0.02
Arnese	43.5	Max WS	Pro_II_Tp6h_tr30	21.99	64.18	66.92		66.92	0.000223	0.49	82.76	127.72	0.11
Arnese	43	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	64.04	69.94		69.94	0.000001	0.07	866.51	345.93	0.01
Arnese	43	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.81	64.04	69.52		69.52	0.000002	0.08	728.89	319.54	0.01
Arnese	43	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	64.04	68.73		68.73	0.000004	0.10	496.11	269.06	0.02
Arnese	43	Max WS	Pro_II_Tp6h_tr30	21.98	64.04	66.91		66.92	0.000200	0.49	95.18	176.09	0.11
Arnese	42.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	63.90	69.94		69.94	0.000001	0.08	712.90	253.36	0.01
Arnese	42.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	63.90	69.52		69.52	0.000002	0.09	610.24	242.69	0.01
Arnese	42.7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	63.90	68.73		68.73	0.000005	0.12	426.41	222.31	0.02
Arnese	42.7	Max WS	Pro_II_Tp6h_tr30	21.97	63.90	66.91		66.91	0.000279	0.61	76.10	144.93	0.13

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	42.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	63.80	69.92	65.89	69.98	0.000207	1.06	35.46	213.45	0.14
Arnese	42.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	63.80	69.51	65.84	69.57	0.000244	1.09	32.80	204.98	0.15
Arnese	42.4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	63.80	68.71	65.71	68.78	0.000344	1.16	27.70	188.76	0.18
Arnese	42.4	Max WS	Pro_II_Tp6h_tr30	21.97	63.80	66.84	65.33	66.94	0.001060	1.40	15.74	116.20	0.28
Arnese	42.3			Inl Struct									
Arnese	42	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	63.65	65.73	65.50	66.17	0.007980	2.95	13.13	21.36	0.79
Arnese	42	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	63.65	65.68	65.46	66.11	0.008138	2.91	12.34	13.10	0.80
Arnese	42	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	63.65	65.59		65.99	0.008003	2.80	11.47	8.82	0.78
Arnese	42	Max WS	Pro_II_Tp6h_tr30	21.97	63.65	65.25		65.58	0.008052	2.54	8.65	7.80	0.77
Arnese	41	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	63.15	65.36		65.88	0.010169	3.21	11.71	8.62	0.88
Arnese	41	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	63.15	65.31		65.82	0.010140	3.17	11.30	8.47	0.88
Arnese	41	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	63.15	65.20		65.69	0.010136	3.08	10.43	8.16	0.87
Arnese	41	Max WS	Pro_II_Tp6h_tr30	21.97	63.15	64.87		65.27	0.010048	2.79	7.88	7.16	0.85
Arnese	40	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	62.90	65.06		65.62	0.011123	3.32	11.32	8.48	0.92
Arnese	40	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	62.90	65.01		65.56	0.011117	3.28	10.92	8.34	0.91
Arnese	40	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	62.90	64.91		65.43	0.011158	3.19	10.06	8.02	0.91
Arnese	40	Max WS	Pro_II_Tp6h_tr30	21.97	62.90	64.57		65.01	0.011267	2.91	7.55	7.02	0.90
Arnese	39	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	62.60	64.78		65.32	0.010795	3.28	11.45	8.53	0.90
Arnese	39	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	62.60	64.73		65.26	0.010823	3.25	11.03	8.38	0.90
Arnese	39	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	62.60	64.62		65.13	0.010837	3.16	10.17	8.06	0.90
Arnese	39	Max WS	Pro_II_Tp6h_tr30	21.97	62.60	64.28		64.71	0.011080	2.89	7.60	7.04	0.89
Arnese	38.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	62.35	64.57		65.08	0.009841	3.17	11.85	8.67	0.87
Arnese	38.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	62.35	64.52		65.02	0.009860	3.14	11.42	8.52	0.86
Arnese	38.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	62.35	64.42		64.89	0.009813	3.05	10.55	8.20	0.86
Arnese	38.2	Max WS	Pro_II_Tp6h_tr30	21.97	62.35	64.07		64.47	0.010005	2.78	7.89	7.17	0.85
Arnese	38.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	62.30	64.48		65.03	0.010725	3.28	11.47	8.53	0.90
Arnese	38.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	62.30	64.43		64.96	0.010779	3.24	11.05	8.38	0.90
Arnese	38.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	62.30	64.32		64.83	0.010769	3.15	10.19	8.07	0.90
Arnese	38.1	Max WS	Pro_II_Tp6h_tr30	21.97	62.30	63.97		64.41	0.011269	2.91	7.55	7.02	0.90
Arnese	37	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	62.00	64.34		64.77	0.007866	2.92	12.88	9.02	0.78
Arnese	37	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	62.00	64.29		64.71	0.007865	2.88	12.43	8.86	0.78
Arnese	37	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	62.00	64.19		64.58	0.007688	2.78	11.56	8.56	0.76
Arnese	37	Max WS	Pro_II_Tp6h_tr30	21.97	62.00	63.83		64.16	0.007752	2.53	8.68	7.49	0.75
Arnese	36	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	61.85	64.33		64.69	0.006119	2.66	14.15	9.43	0.69
Arnese	36	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	61.85	64.28		64.62	0.006093	2.62	13.67	9.27	0.69
Arnese	36	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.14	61.85	64.18		64.50	0.005867	2.51	12.79	8.98	0.67
Arnese	36	Max WS	Pro_II_Tp6h_tr30	21.97	61.85	63.82		64.08	0.005674	2.25	9.75	7.91	0.65

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	35	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	61.80	64.28		64.64	0.006096	2.65	14.17	9.44	0.69
Arnese	35	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	61.80	64.23		64.58	0.006070	2.62	13.69	9.28	0.69
Arnese	35	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.14	61.80	64.13		64.45	0.005811	2.50	12.84	9.00	0.67
Arnese	35	Max WS	Pro_II_Tp6h_tr30	21.97	61.80	63.78		64.03	0.005577	2.24	9.81	7.93	0.64
Arnese	34.2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	61.72	64.23		64.57	0.005813	2.60	14.43	9.52	0.68
Arnese	34.2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	61.72	64.17		64.51	0.005774	2.57	13.95	9.36	0.67
Arnese	34.2	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.14	61.72	64.08		64.39	0.005480	2.45	13.12	9.09	0.65
Arnese	34.2	Max WS	Pro_II_Tp6h_tr30	21.97	61.72	63.73		63.97	0.005172	2.18	10.09	8.03	0.62
Arnese	34.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	61.70	64.19		64.54	0.005968	2.63	14.29	9.47	0.68
Arnese	34.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	61.70	64.14		64.48	0.005930	2.59	13.81	9.32	0.68
Arnese	34.1	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.14	61.70	64.05		64.36	0.005602	2.47	13.01	9.06	0.66
Arnese	34.1	Max WS	Pro_II_Tp6h_tr30	21.97	61.70	63.70		63.95	0.005277	2.19	10.02	8.01	0.63
Arnese	33	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	61.60	63.97		64.39	0.007376	2.85	13.20	9.12	0.76
Arnese	33	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	61.60	63.93		64.33	0.007316	2.80	12.77	8.98	0.75
Arnese	33	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.14	61.60	63.86		64.21	0.006721	2.64	12.16	8.77	0.72
Arnese	33	Max WS	Pro_II_Tp6h_tr30	21.97	61.60	63.52		63.80	0.006252	2.34	9.40	7.77	0.68
Arnese	32	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	61.50	63.80	63.50	64.25	0.007482	3.01	13.29	19.15	0.77
Arnese	32	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	61.50	63.74	63.50	64.19	0.007671	2.98	12.46	13.06	0.78
Arnese	32	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.14	61.50	63.66		64.07	0.007504	2.84	11.52	10.71	0.76
Arnese	32	Max WS	Pro_II_Tp6h_tr30	21.97	61.50	63.32		63.65	0.007955	2.56	8.60	7.46	0.76
Arnese	31	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	60.85	63.30		63.44	0.003600	1.62	23.24	24.22	0.53
Arnese	31	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	60.85	63.25		63.39	0.003758	1.63	22.01	23.45	0.54
Arnese	31	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.13	60.85	63.14		63.28	0.004074	1.64	19.59	21.86	0.55
Arnese	31	Max WS	Pro_II_Tp6h_tr30	21.97	60.85	62.77		62.93	0.005989	1.78	12.38	16.24	0.65
Arnese	30	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	60.30	62.59		63.05	0.008704	3.03	12.41	8.86	0.82
Arnese	30	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	60.30	62.54		62.99	0.008705	2.99	11.96	8.71	0.82
Arnese	30	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.13	60.30	62.43		62.86	0.008698	2.91	11.04	8.38	0.81
Arnese	30	Max WS	Pro_II_Tp6h_tr30	21.97	60.30	62.08		62.44	0.008714	2.64	8.31	7.34	0.79
Arnese	29	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	59.80	62.10		62.56	0.008494	3.00	12.52	8.89	0.81
Arnese	29	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	59.80	62.05		62.50	0.008481	2.96	12.08	8.75	0.81
Arnese	29	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.13	59.80	61.94		62.36	0.008438	2.88	11.16	8.43	0.80
Arnese	29	Max WS	Pro_II_Tp6h_tr30	21.97	59.80	61.60		61.94	0.008363	2.60	8.44	7.39	0.78
Arnese	28	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr1000	37.58	59.10	61.30		61.83	0.010285	3.22	11.66	8.60	0.88
Arnese	28	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr500	35.80	59.10	61.25		61.77	0.010227	3.18	11.27	8.46	0.88
Arnese	28	Max WS	PRO_II_Stalцио_08-2021_REV_03_Tp6h_Tr200	32.13	59.10	61.16		61.64	0.010064	3.07	10.45	8.17	0.87
Arnese	28	Max WS	Pro_II_Tp6h_tr30	21.97	59.10	60.85		61.22	0.009407	2.72	8.07	7.24	0.82

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	58.95	61.01	61.02	61.66	0.013717	3.59	10.47	8.17	1.01
Arnese	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	58.95	60.96	60.97	61.60	0.013713	3.55	10.10	8.04	1.01
Arnese	27	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	58.95	60.87	60.87	61.47	0.013628	3.44	9.34	7.75	1.00
Arnese	27	Max WS	Pro_II_Tp6h_tr30	21.97	58.95	60.56	60.53	61.05	0.013245	3.09	7.11	6.83	0.97
Arnese	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	58.60	60.37	60.67	61.43	0.019240	4.57	8.23	7.30	1.37
Arnese	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	58.60	60.32	60.62	61.38	0.019853	4.57	7.84	7.15	1.39
Arnese	26	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	58.60	60.21	60.51	61.25	0.020825	4.52	7.11	6.83	1.41
Arnese	26	Max WS	Pro_II_Tp6h_tr30	21.97	58.60	59.88	60.18	60.86	0.024886	4.37	5.02	5.84	1.51
Arnese	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	58.20	60.16		60.69	0.007672	3.22	11.67	8.89	0.90
Arnese	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	58.20	60.10		60.63	0.007874	3.21	11.15	8.71	0.91
Arnese	25	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	58.20	59.99		60.50	0.008111	3.15	10.19	8.37	0.91
Arnese	25	Max WS	Pro_II_Tp6h_tr30	21.97	58.20	59.62	59.59	60.08	0.009474	3.02	7.28	7.26	0.96
Arnese	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	58.00	60.21		60.58	0.004770	2.70	13.91	9.61	0.72
Arnese	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	58.00	60.14		60.51	0.004931	2.70	13.26	9.41	0.73
Arnese	24	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	58.00	60.01		60.37	0.005073	2.65	12.11	9.04	0.73
Arnese	24	Max WS	Pro_II_Tp6h_tr30	21.97	58.00	59.60		59.93	0.005893	2.54	8.66	7.81	0.77
Arnese	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	57.80	60.23		60.51	0.003953	2.32	16.72	15.23	0.57
Arnese	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	57.80	60.18		60.44	0.004045	2.30	15.90	13.81	0.58
Arnese	23	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	57.80	60.05		60.30	0.004311	2.25	14.34	10.62	0.59
Arnese	23	Max WS	Pro_II_Tp6h_tr30	21.97	57.80	59.63		59.86	0.004689	2.08	10.55	8.50	0.60
Arnese	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	57.60	60.19		60.41	0.003351	2.11	17.79	10.76	0.52
Arnese	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	57.60	60.13		60.35	0.003330	2.08	17.20	10.59	0.52
Arnese	22	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	57.60	60.01		60.21	0.003317	2.02	15.90	10.22	0.52
Arnese	22	Max WS	Pro_II_Tp6h_tr30	21.97	57.60	59.59		59.76	0.003389	1.85	11.90	8.97	0.51
Arnese	21	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.50	57.06	59.68		60.09	0.005766	2.87	13.72	9.14	0.65
Arnese	21	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	57.06	59.63		60.03	0.005775	2.82	13.25	8.83	0.65
Arnese	21	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	57.06	59.52		59.89	0.005695	2.70	12.32	8.20	0.64
Arnese	21	Max WS	Pro_II_Tp6h_tr30	21.97	57.06	59.16		59.43	0.005103	2.31	9.60	6.86	0.59
Arnese	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.50	56.71	59.43		59.70	0.003181	2.38	17.22	11.54	0.51
Arnese	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	56.71	59.37		59.64	0.003186	2.34	16.59	11.34	0.51
Arnese	20	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	56.71	59.26		59.51	0.003105	2.23	15.40	10.93	0.50
Arnese	20	Max WS	Pro_II_Tp6h_tr30	21.97	56.71	58.93		59.10	0.002766	1.86	12.09	8.66	0.46
Arnese	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	57.00	58.91	59.12	59.90	0.021587	4.41	8.52	6.53	1.23
Arnese	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	57.00	58.85	59.07	59.83	0.022062	4.39	8.16	6.43	1.24
Arnese	19	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	57.00	58.74	58.96	59.69	0.023052	4.33	7.43	6.23	1.27
Arnese	19	Max WS	Pro_II_Tp6h_tr30	21.97	57.00	58.39	58.61	59.24	0.026483	4.08	5.38	5.63	1.33
Arnese	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	55.88	58.63		58.97	0.005221	2.61	14.37	6.83	0.58

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	55.88	58.57		58.90	0.005108	2.56	13.98	6.77	0.57
Arnese	18.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	55.88	58.45		58.75	0.004818	2.44	13.19	6.64	0.55
Arnese	18.2	Max WS	Pro_II_Tp6h_tr30	21.97	55.88	58.05		58.27	0.004071	2.07	10.61	6.20	0.51
Arnese	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	56.07	58.65		58.94	0.004172	2.39	15.75	8.16	0.55
Arnese	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	56.07	58.58		58.87	0.004133	2.35	15.25	8.06	0.55
Arnese	18.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	56.07	58.46		58.72	0.004007	2.25	14.25	7.88	0.54
Arnese	18.1	Max WS	Pro_II_Tp6h_tr30	21.97	56.07	58.04		58.24	0.003766	1.99	11.07	7.25	0.51
Arnese	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.58	55.69	58.34	58.00	58.84	0.008419	3.13	12.52	11.54	0.75
Arnese	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.80	55.69	58.29	57.94	58.77	0.008452	3.08	11.91	11.52	0.75
Arnese	17	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	55.69	58.18		58.63	0.008336	2.96	10.85	7.02	0.74
Arnese	17	Max WS	Pro_II_Tp6h_tr30	21.97	55.69	57.74		58.12	0.008425	2.70	8.15	5.85	0.73
Arnese	16.9			Lat Struct									
Arnese	16.8			Lat Struct									
Arnese	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.50	55.29	58.17		58.73	0.010702	3.33	11.26	6.34	0.80
Arnese	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.79	55.29	58.12		58.66	0.010426	3.26	10.97	6.27	0.79
Arnese	16	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	55.29	58.01		58.51	0.009970	3.12	10.28	6.09	0.77
Arnese	16	Max WS	Pro_II_Tp6h_tr30	21.97	55.29	57.58		57.98	0.009583	2.81	7.82	5.40	0.75
Arnese	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.50	55.18	58.06		58.61	0.009425	3.30	11.38	5.81	0.75
Arnese	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.79	55.18	58.02		58.54	0.009024	3.21	11.17	5.77	0.74
Arnese	15	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	55.18	57.93		58.39	0.008297	3.02	10.62	5.66	0.70
Arnese	15	Max WS	Pro_II_Tp6h_tr30	21.97	55.18	57.53		57.87	0.007048	2.59	8.48	5.18	0.65
Arnese	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.50	55.23	58.03		58.30	0.003430	2.30	17.05	11.79	0.51
Arnese	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.79	55.23	58.00		58.25	0.003294	2.23	16.67	11.52	0.50
Arnese	14	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	55.23	57.91		58.14	0.003090	2.11	15.65	10.75	0.49
Arnese	14	Max WS	Pro_II_Tp6h_tr30	21.97	55.23	57.48		57.66	0.003134	1.87	11.77	7.66	0.48
Arnese	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.50	54.76	57.35	57.30	58.11	0.014085	3.89	9.94	7.72	0.91
Arnese	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.79	54.76	57.25	57.20	58.04	0.015352	3.94	9.18	6.66	0.94
Arnese	13	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	54.76	57.09	57.04	57.86	0.016278	3.88	8.28	5.08	0.96
Arnese	13	Max WS	Pro_II_Tp6h_tr30	21.97	54.76	56.65	56.61	57.29	0.016365	3.54	6.21	4.48	0.96
Arnese	12	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.47	54.23	57.17		57.53	0.005596	2.63	14.32	9.36	0.59
Arnese	12	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.77	54.23	57.09		57.44	0.005782	2.62	13.63	6.90	0.60
Arnese	12	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	54.23	56.94		57.27	0.005664	2.54	12.64	6.59	0.59
Arnese	12	Max WS	Pro_II_Tp6h_tr30	21.97	54.23	56.53		56.77	0.004910	2.19	10.05	5.98	0.54
Arnese	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.47	54.15	57.11		57.38	0.003983	2.34	16.83	13.26	0.56
Arnese	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.76	54.15	57.02		57.30	0.004282	2.36	15.69	12.32	0.57
Arnese	11	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	54.15	56.84		57.13	0.004861	2.37	13.69	10.48	0.60

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	11	Max WS	Pro_II_Tp6h_tr30	21.97	54.15	56.38		56.64	0.005816	2.26	9.71	7.68	0.64
Arnese	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.45	53.48	56.95		57.18	0.003300	2.13	17.76	11.05	0.48
Arnese	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.75	53.48	56.85		57.08	0.003464	2.13	16.78	9.47	0.48
Arnese	10	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.13	53.48	56.67		56.89	0.003652	2.11	15.21	8.07	0.49
Arnese	10	Max WS	Pro_II_Tp6h_tr30	21.97	53.48	56.22		56.39	0.003333	1.86	11.82	7.07	0.46
Arnese	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.32	54.01	56.68		56.93	0.003988	2.19	17.07	10.83	0.56
Arnese	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.73	54.01	56.55		56.81	0.004511	2.28	15.67	10.19	0.59
Arnese	9	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.12	54.01	56.29		56.59	0.005829	2.44	13.14	9.31	0.66
Arnese	9	Max WS	Pro_II_Tp6h_tr30	21.95	54.01	55.76		56.09	0.008275	2.53	8.69	7.61	0.75
Arnese	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.32	53.80	56.69		56.84	0.002076	1.76	21.15	11.66	0.42
Arnese	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.73	53.80	56.55		56.72	0.002332	1.82	19.61	11.25	0.44
Arnese	8	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.12	53.80	56.28		56.47	0.002913	1.93	16.68	10.44	0.49
Arnese	8	Max WS	Pro_II_Tp6h_tr30	21.94	53.80	55.71		55.91	0.003983	1.96	11.20	8.73	0.55
Arnese	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.32	53.50	56.70		56.81	0.001257	1.50	25.13	14.55	0.33
Arnese	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.73	53.50	56.56		56.68	0.001446	1.54	23.28	12.86	0.35
Arnese	7	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.12	53.50	56.29		56.42	0.001771	1.60	20.07	11.38	0.38
Arnese	7	Max WS	Pro_II_Tp6h_tr30	21.94	53.50	55.72		55.84	0.002168	1.56	14.02	9.65	0.41
Arnese	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.22	53.20	56.71		56.78	0.000699	1.22	32.55	19.66	0.25
Arnese	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.73	53.20	56.57		56.65	0.000776	1.25	29.90	19.04	0.26
Arnese	6	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.12	53.20	56.30		56.38	0.000894	1.28	25.24	13.83	0.27
Arnese	6	Max WS	Pro_II_Tp6h_tr30	21.94	53.20	55.73		55.80	0.000893	1.15	19.05	10.06	0.27
Arnese	5.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.20	53.25	56.69	54.66	56.77	0.000621	1.29	28.73	9.64	0.24
Arnese	5.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.73	53.25	56.56	54.63	56.64	0.000650	1.30	27.44	9.57	0.25
Arnese	5.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.12	53.25	56.29	54.54	56.37	0.000688	1.29	24.93	9.42	0.25
Arnese	5.2	Max WS	Pro_II_Tp6h_tr30	21.94	53.25	55.73	54.27	55.79	0.000592	1.11	19.83	8.84	0.24
Arnese	5.15			Bridge									
Arnese	5.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.17	53.25	56.27		56.42	0.001287	1.70	21.87	8.71	0.34
Arnese	5.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.71	53.25	56.18		56.32	0.001322	1.70	21.05	8.69	0.35
Arnese	5.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.11	53.25	55.98		56.12	0.001334	1.66	19.34	8.36	0.35
Arnese	5.1	Max WS	Pro_II_Tp6h_tr30	21.92	53.25	55.60		55.69	0.000971	1.34	16.30	7.72	0.30
Arnese	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.17	53.00	56.19		56.38	0.002441	1.94	19.13	8.31	0.41
Arnese	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.68	53.00	56.10		56.29	0.002519	1.95	18.34	8.16	0.41
Arnese	4	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.11	53.00	55.89		56.08	0.002613	1.92	16.72	7.85	0.42
Arnese	4	Max WS	Pro_II_Tp6h_tr30	21.92	53.00	55.54		55.66	0.001947	1.56	14.04	7.30	0.36
Arnese	3.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.16	53.38	56.13	55.00	56.31	0.002116	1.87	19.88	8.56	0.39
Arnese	3.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.69	53.38	56.03	54.96	56.21	0.002208	1.88	19.02	8.52	0.40

HEC-RAS River: Rio Arnese Reach: Arnese Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Arnese	3.2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.10	53.38	55.82	54.87	56.00	0.002351	1.86	17.26	8.45	0.42
Arnese	3.2	Max WS	Pro_II_Tp6h_tr30	21.91	53.38	55.48	54.58	55.60	0.001836	1.52	14.41	8.33	0.37
Arnese	3.15		Bridge										
Arnese	3.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.12	53.21	56.11		56.28	0.002189	1.83	20.24	8.48	0.38
Arnese	3.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.69	53.21	56.03		56.20	0.002227	1.82	19.57	8.46	0.38
Arnese	3.1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.10	53.21	55.82		55.99	0.002340	1.80	17.85	8.40	0.39
Arnese	3.1	Max WS	Pro_II_Tp6h_tr30	21.91	53.21	55.48		55.59	0.001812	1.46	14.96	8.31	0.35
Arnese	2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.12	52.97	56.02		56.25	0.003424	2.11	17.58	9.74	0.50
Arnese	2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.66	52.97	55.93		56.16	0.003620	2.13	16.75	9.61	0.52
Arnese	2	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.07	52.97	55.71		55.95	0.004297	2.19	14.61	9.29	0.56
Arnese	2	Max WS	Pro_II_Tp6h_tr30	21.90	52.97	55.38		55.56	0.003771	1.88	11.65	8.60	0.52
Arnese	1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.08	52.97	55.93		56.18	0.003935	2.22	16.71	9.61	0.54
Arnese	1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.61	52.97	55.83		56.09	0.004237	2.25	15.82	9.47	0.56
Arnese	1	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.01	52.97	55.58		55.87	0.005410	2.38	13.46	9.10	0.62
Arnese	1	Max WS	Pro_II_Tp6h_tr30	21.78	52.97	55.27		55.48	0.004633	2.02	10.78	8.32	0.57
Arnese	0.01	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr1000	37.11	53.00	56.07		56.15	0.000967	1.21	30.57	17.04	0.29
Arnese	0.01	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr500	35.67	53.00	55.98		56.06	0.001034	1.23	29.02	16.77	0.30
Arnese	0.01	Max WS	PRO_II_Stralcio_08-2021_REV_03_Tp6h_Tr200	32.06	53.00	55.73		55.82	0.001280	1.28	24.97	16.04	0.33
Arnese	0.01	Max WS	Pro_II_Tp6h_tr30	21.85	53.00	55.38		55.45	0.001199	1.12	19.53	14.96	0.31



Verifiche Idrauliche

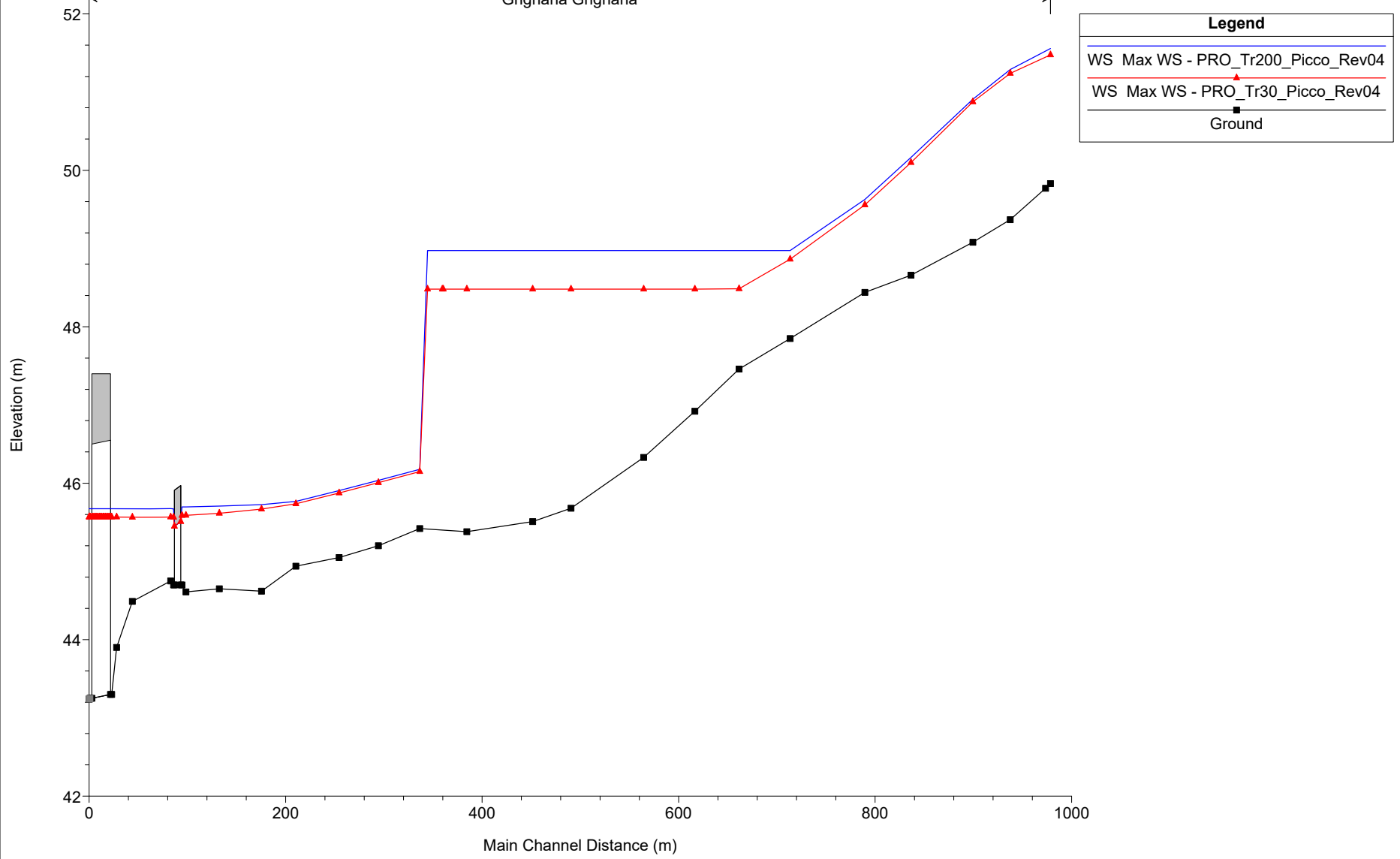
Rio Grignana

Stato di progetto

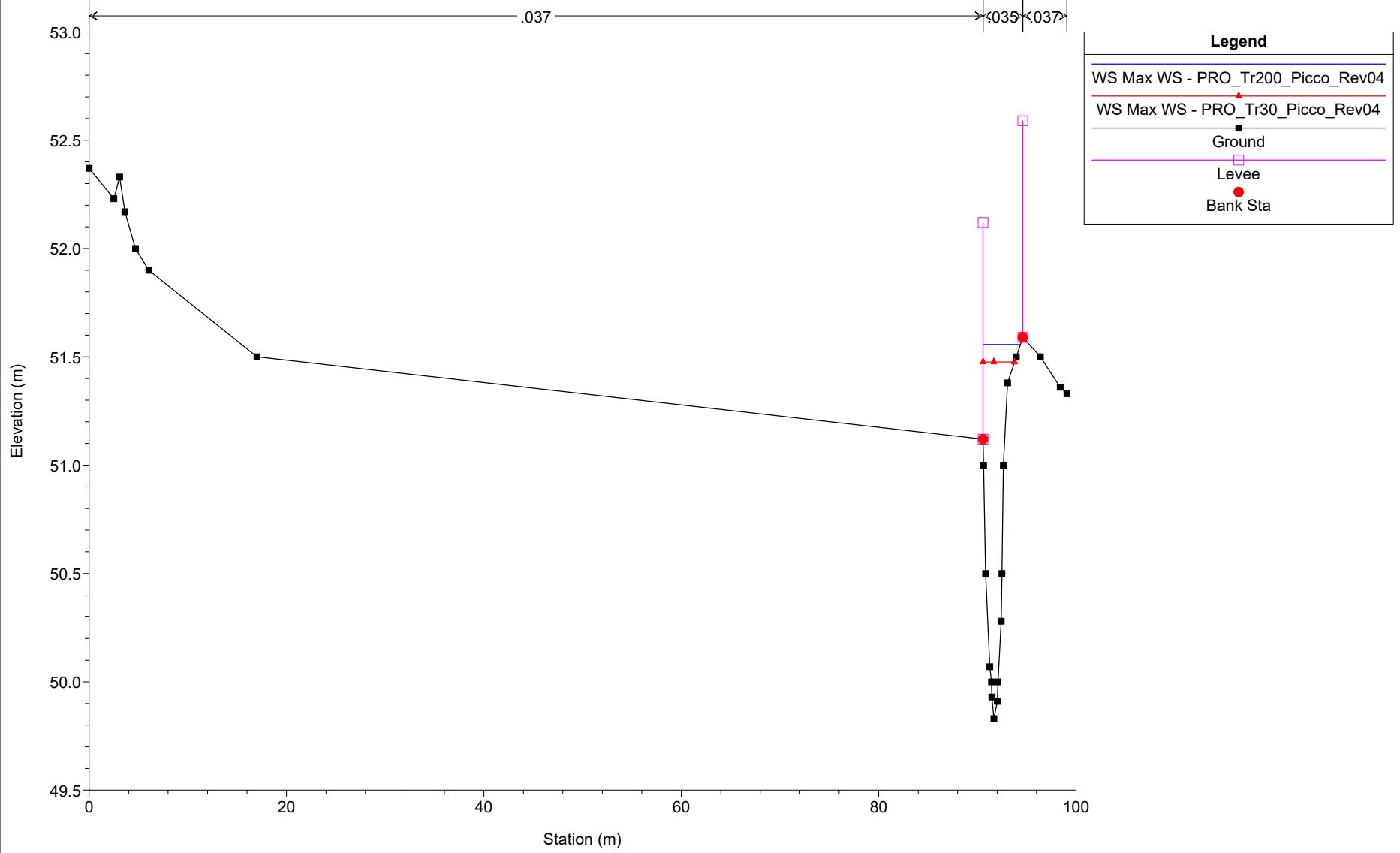
**Rio Grignana - Verifiche idrauliche moto vario stato di progetto –  
Tr=200 e Tr=30 anni – Tp critico**

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

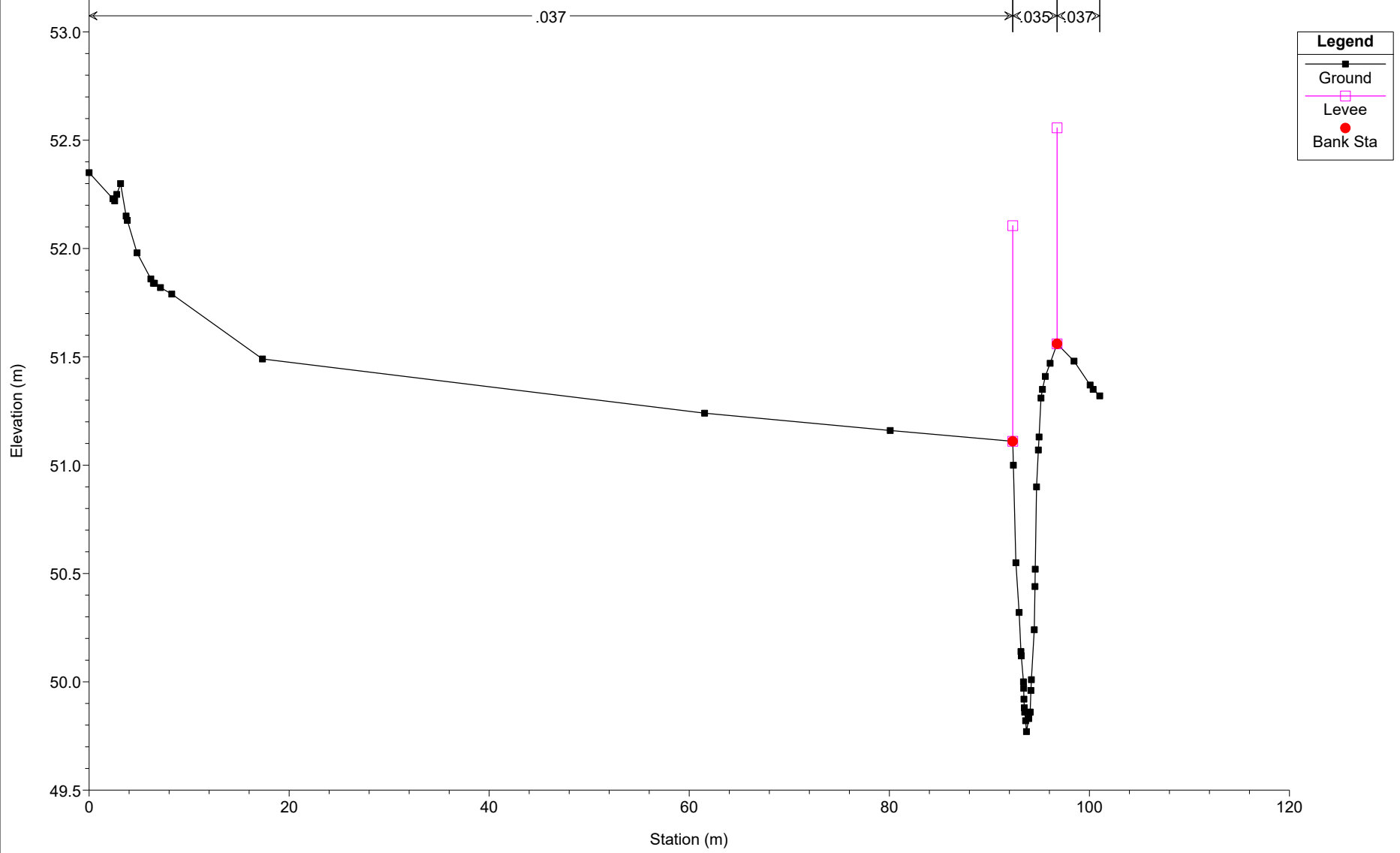
Grignana Grignana



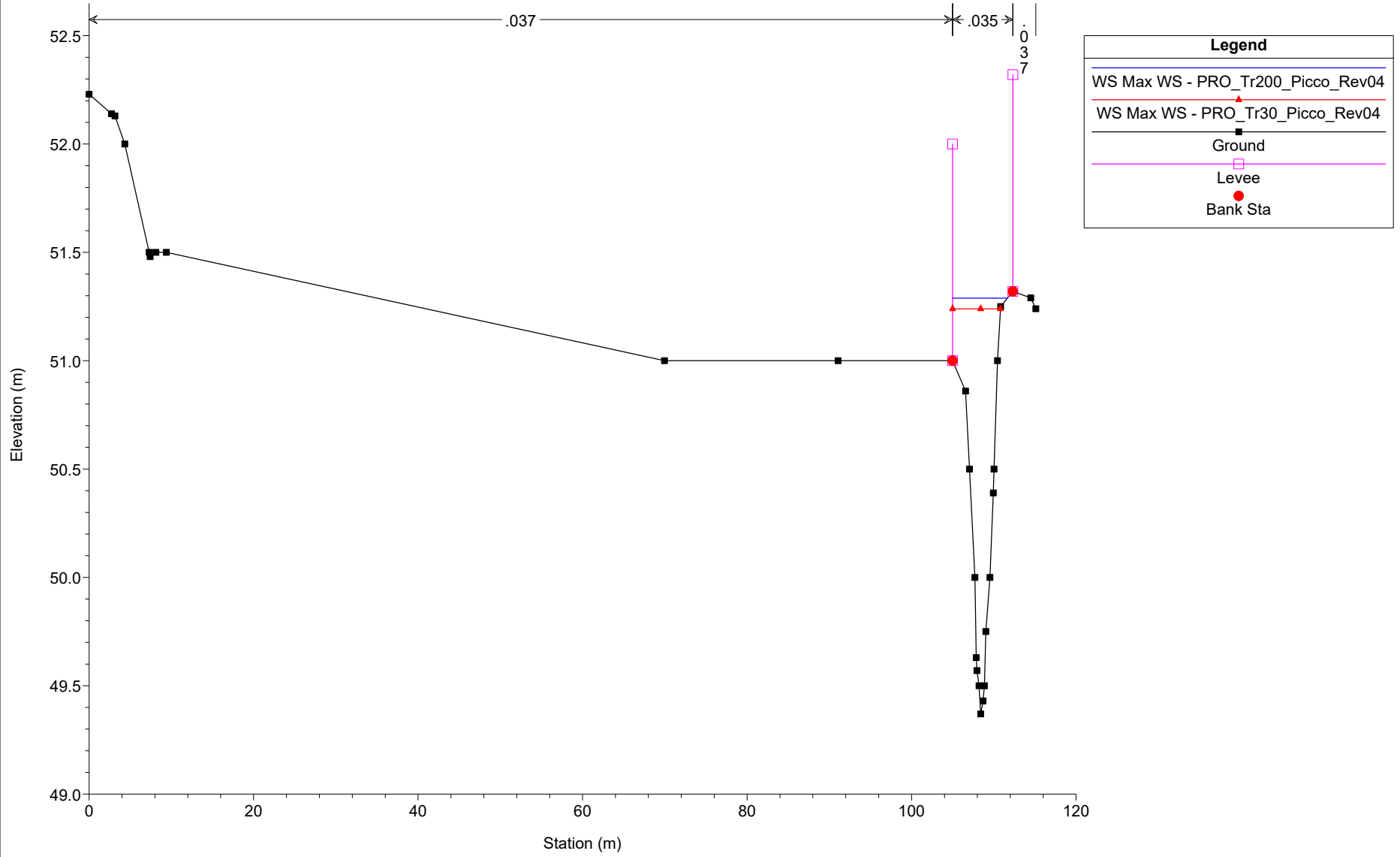
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RS = 27



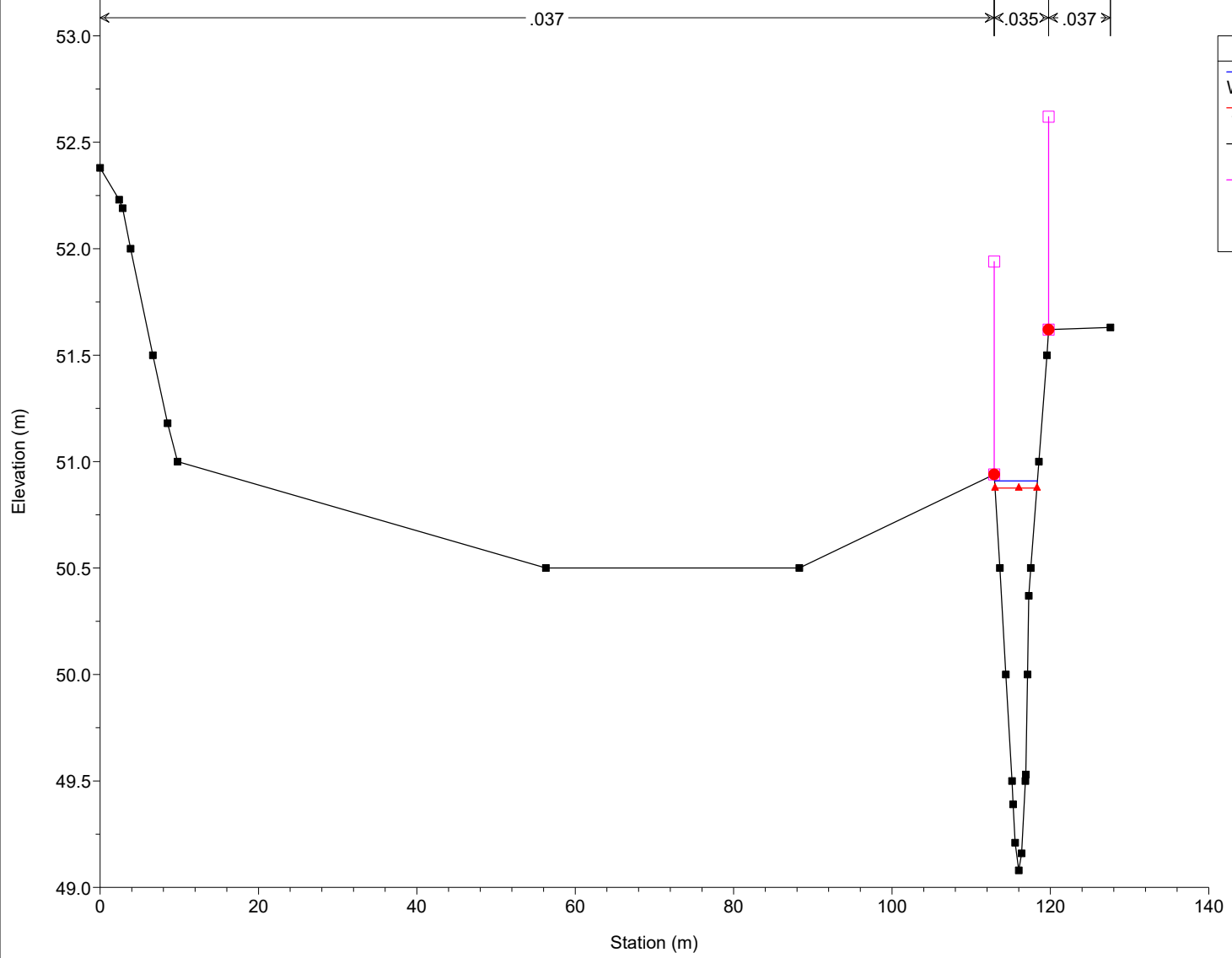
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 26.8 ausiliaria



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 26



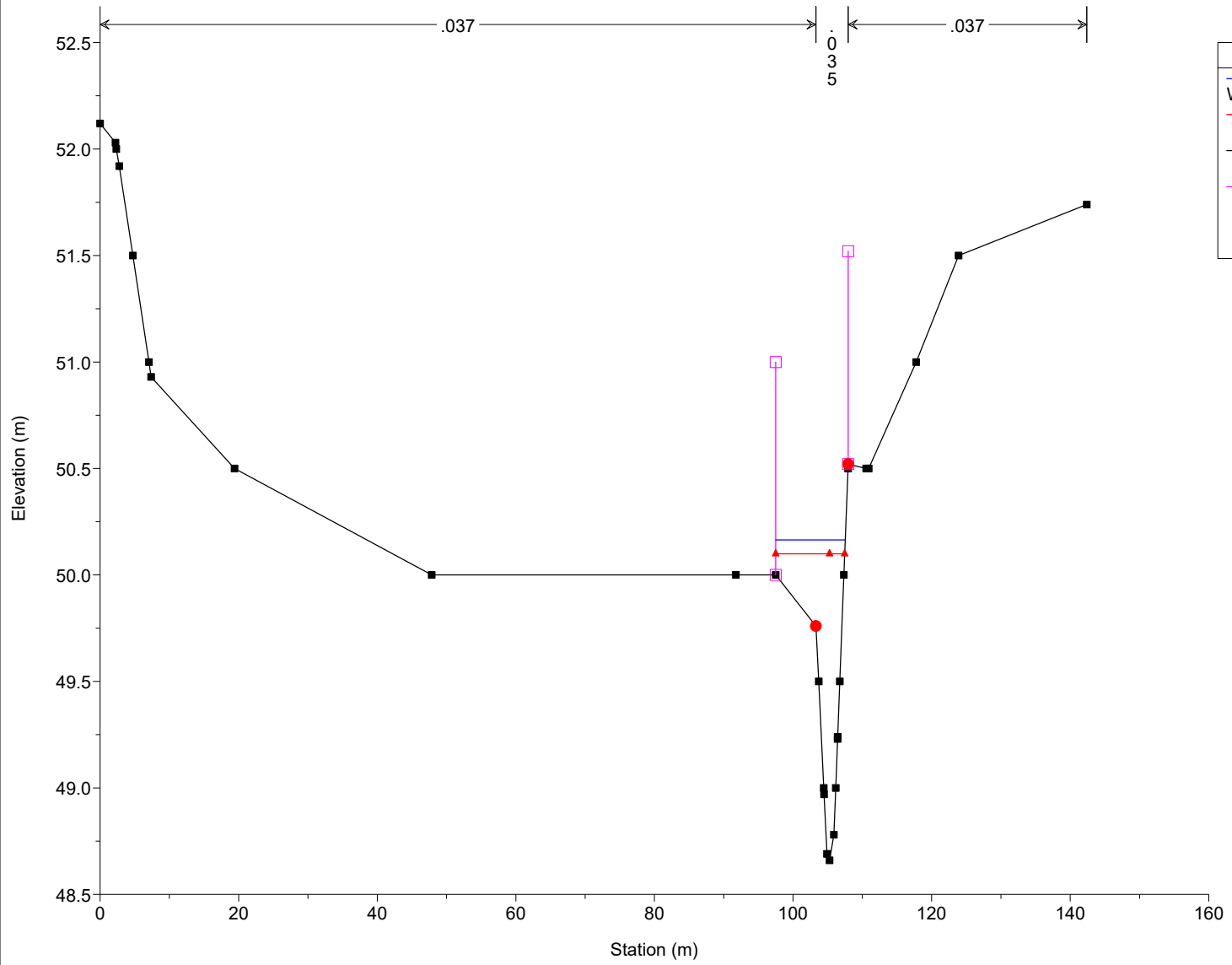
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 RS = 25



Legend	
	WS Max WS - PRO_Tr200_Picco_Rev04
	WS Max WS - PRO_Tr30_Picco_Rev04
	Ground
	Levee
	Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

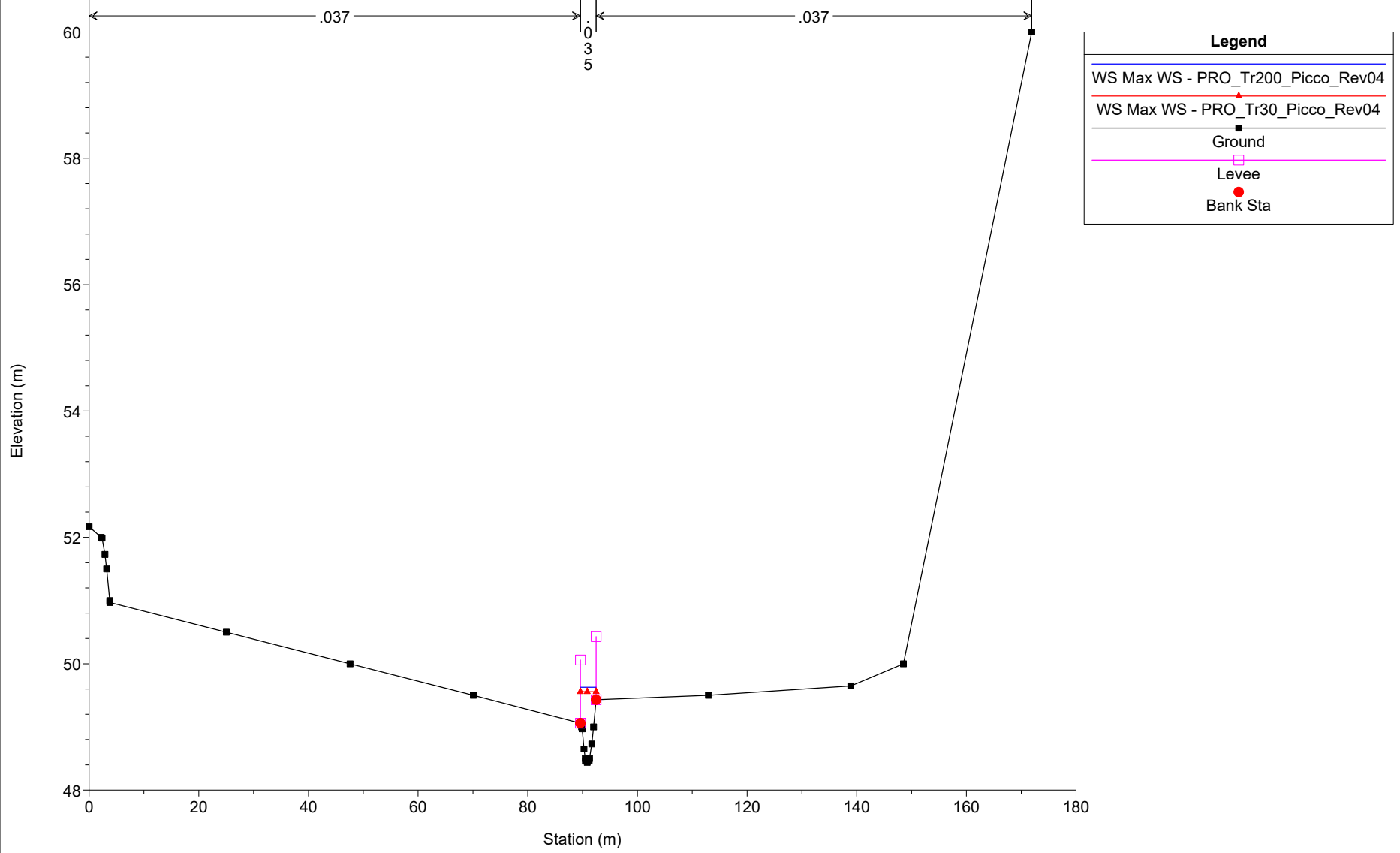
RS = 24



Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

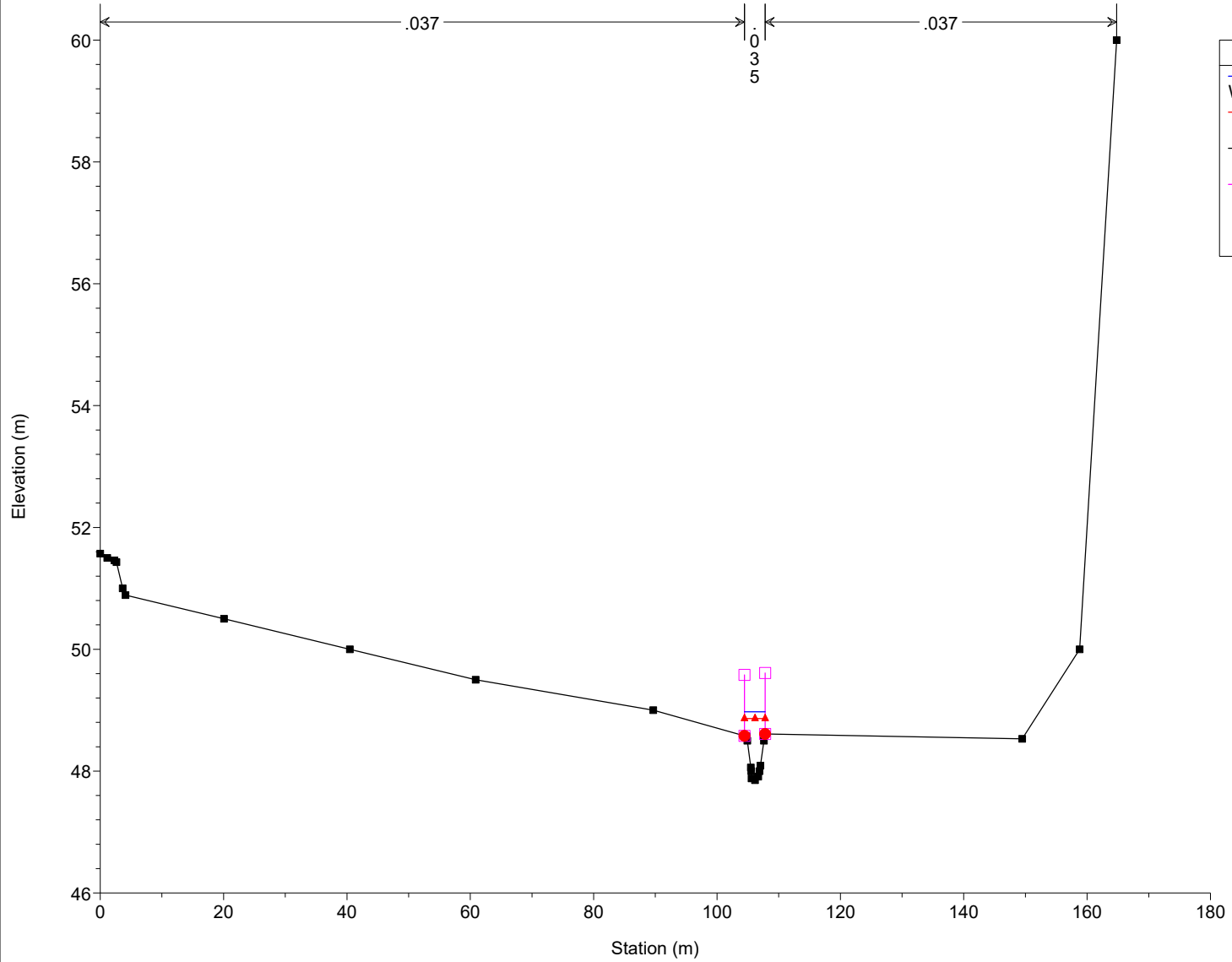


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 23



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

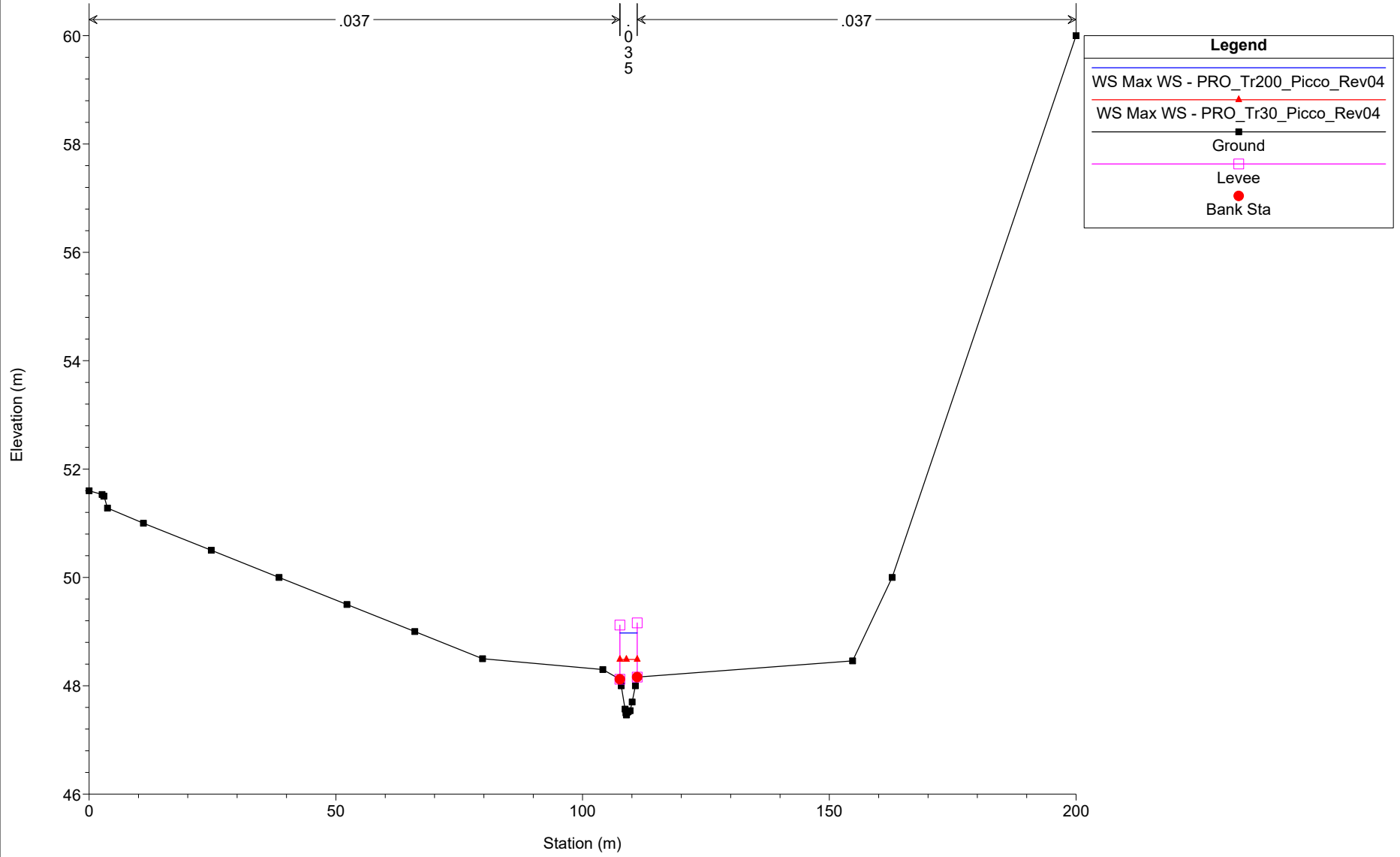
RS = 22



Legend	
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WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

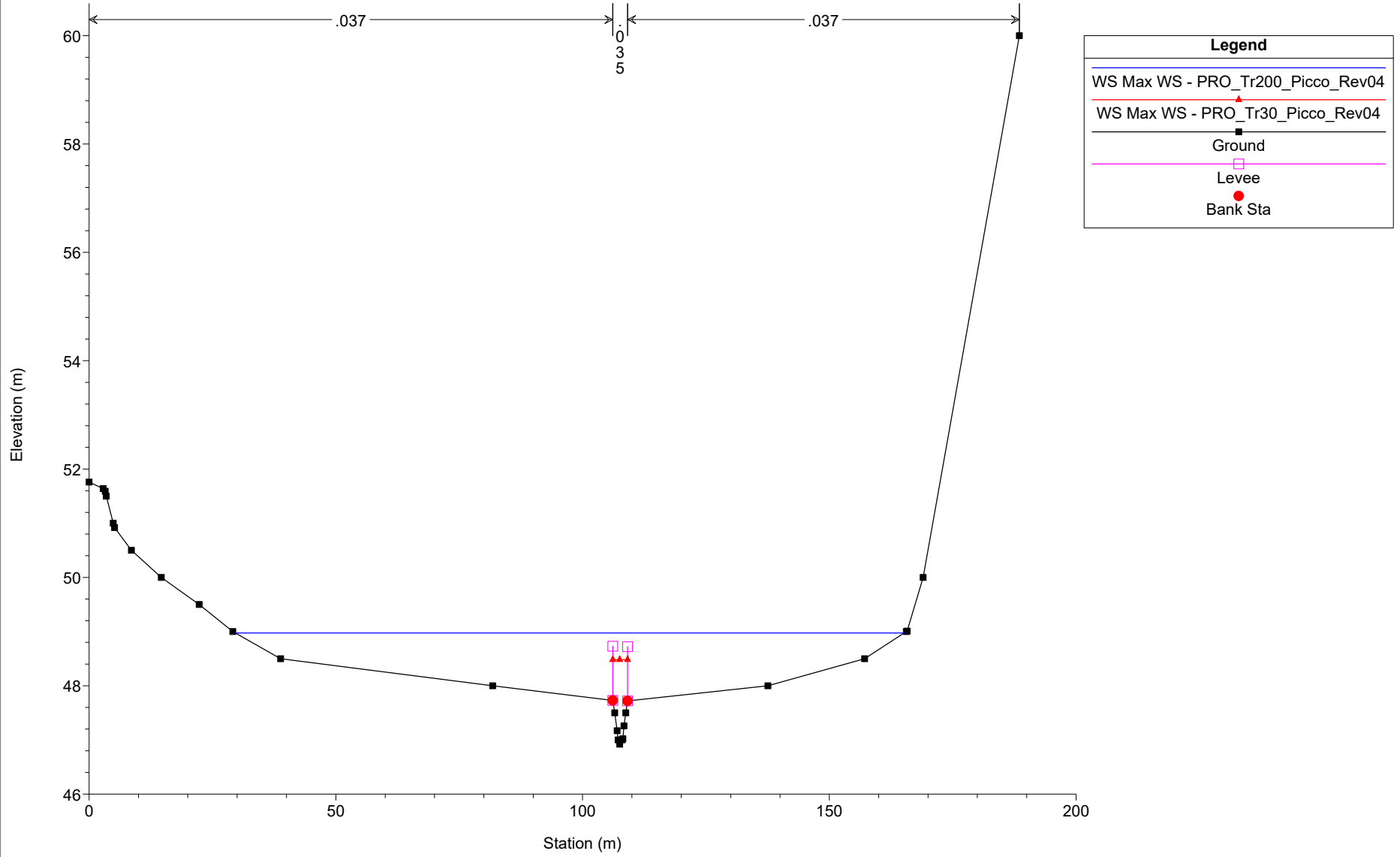
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RS = 21



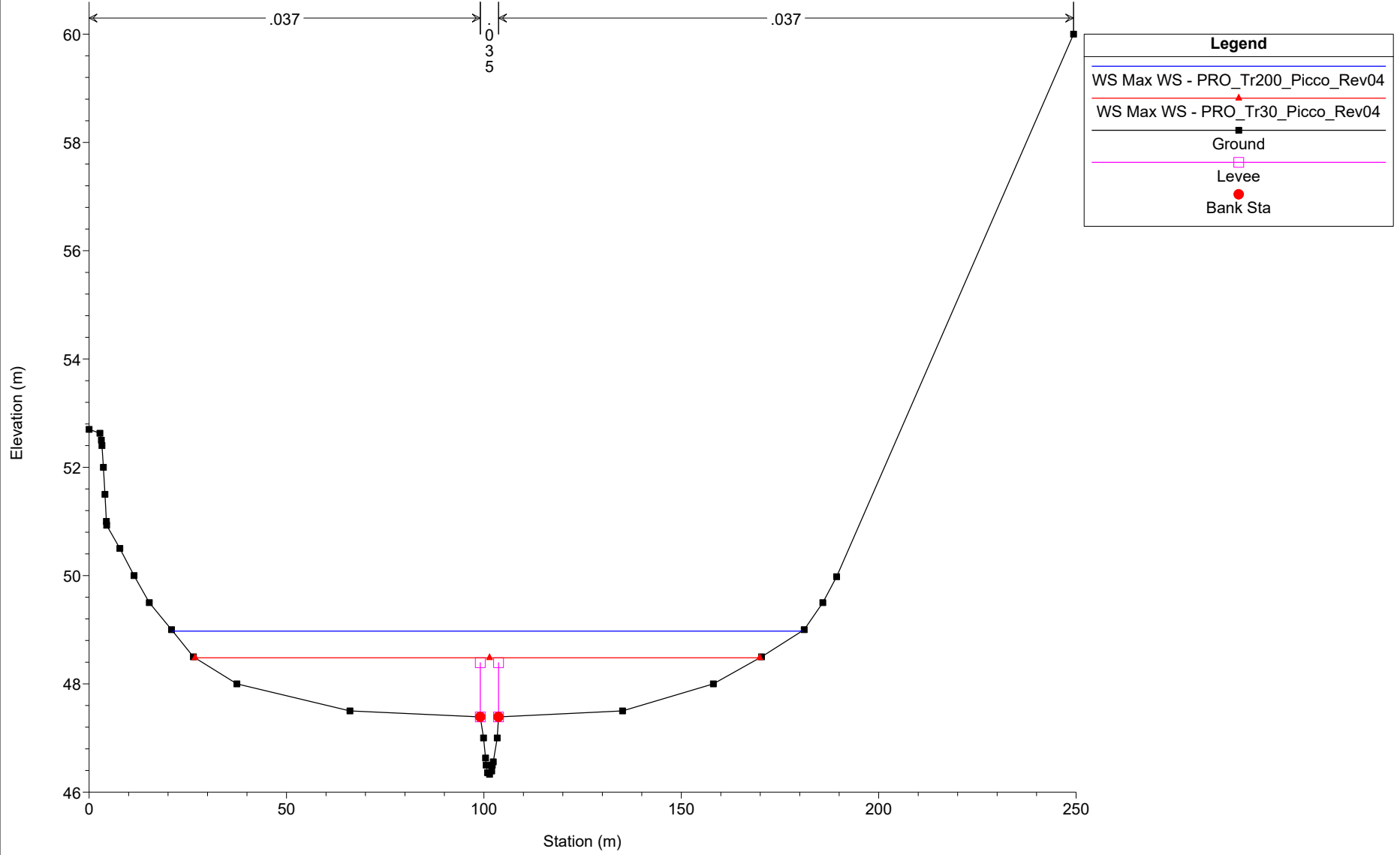
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RS = 20



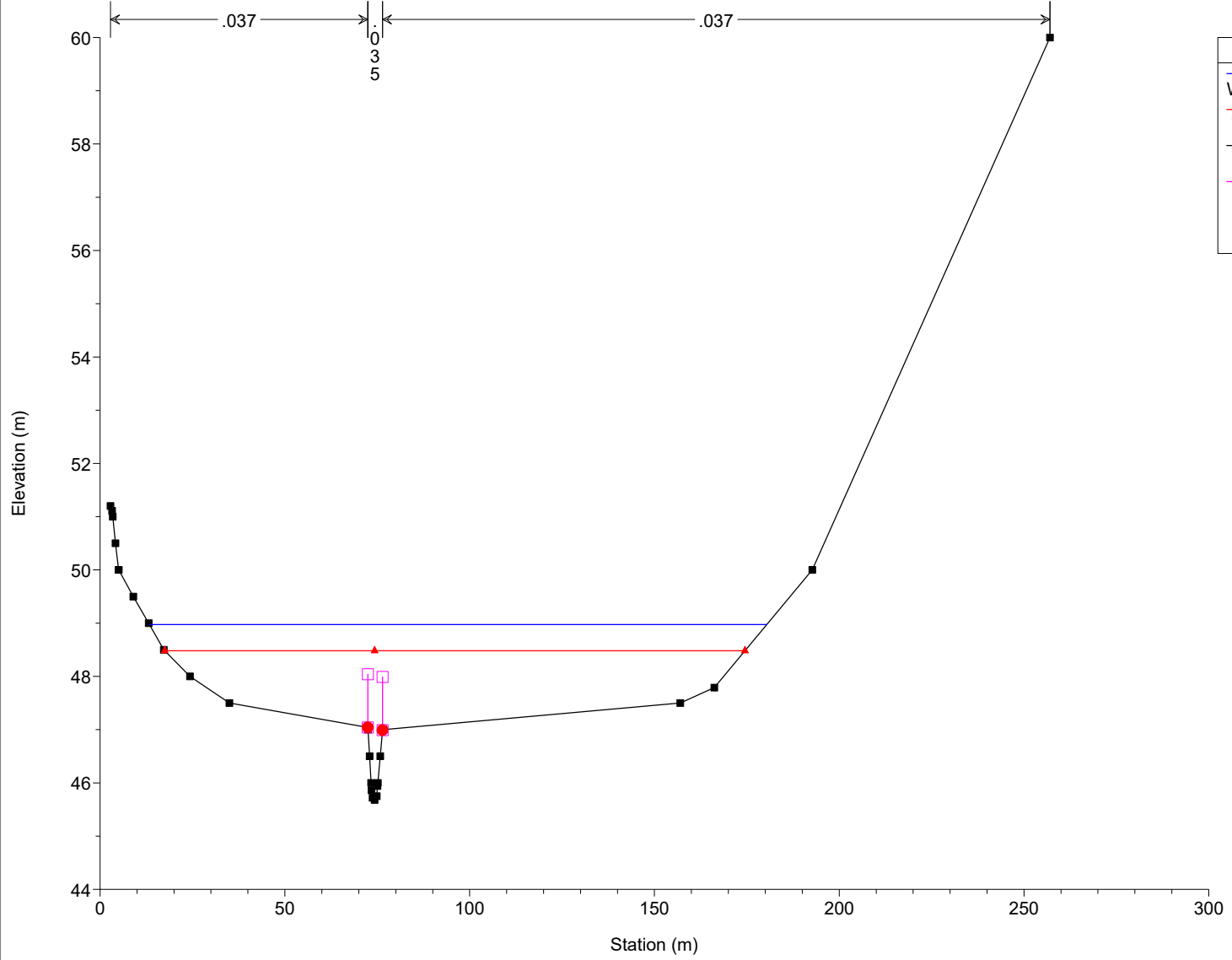
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RS = 19



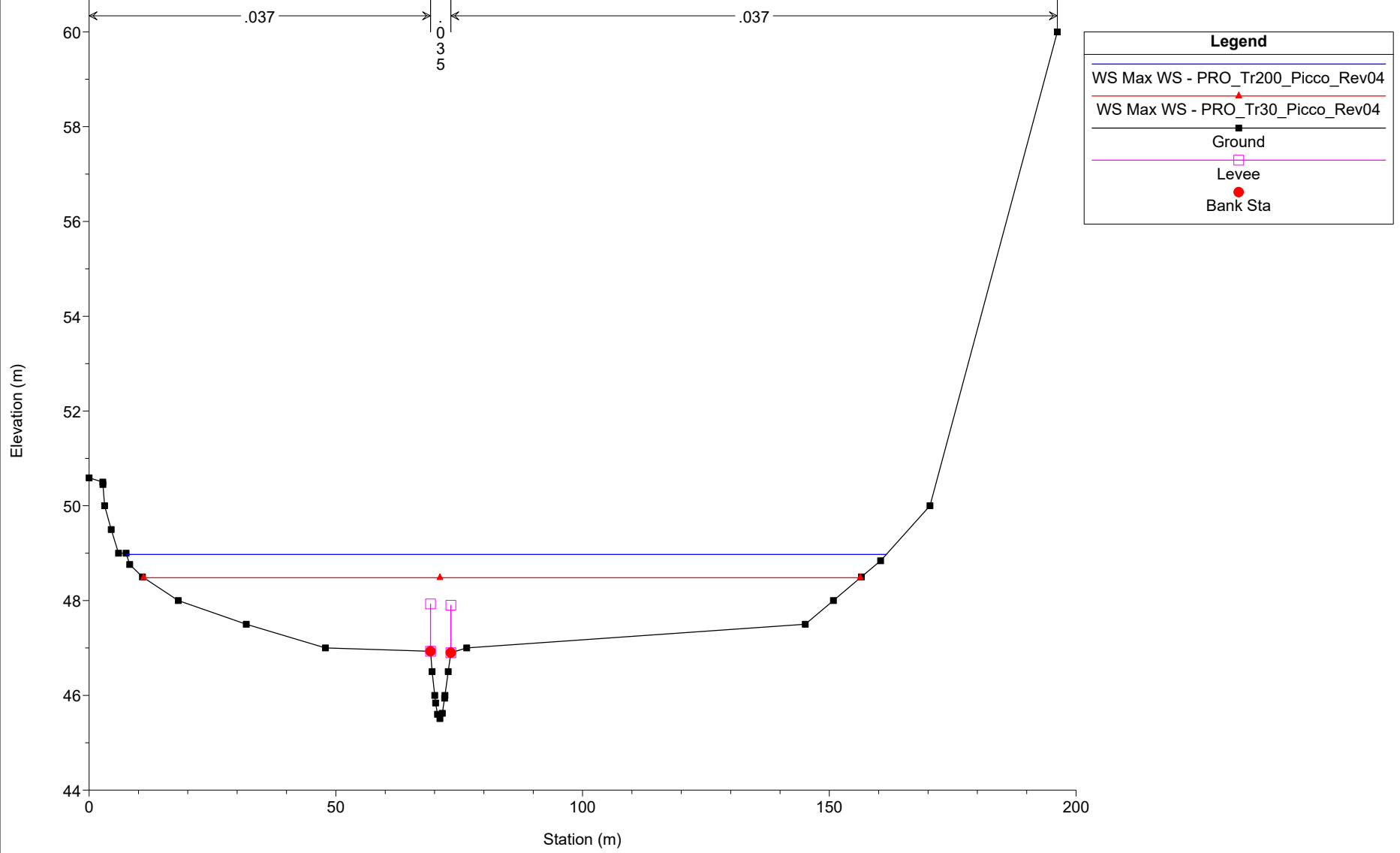
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RS = 18



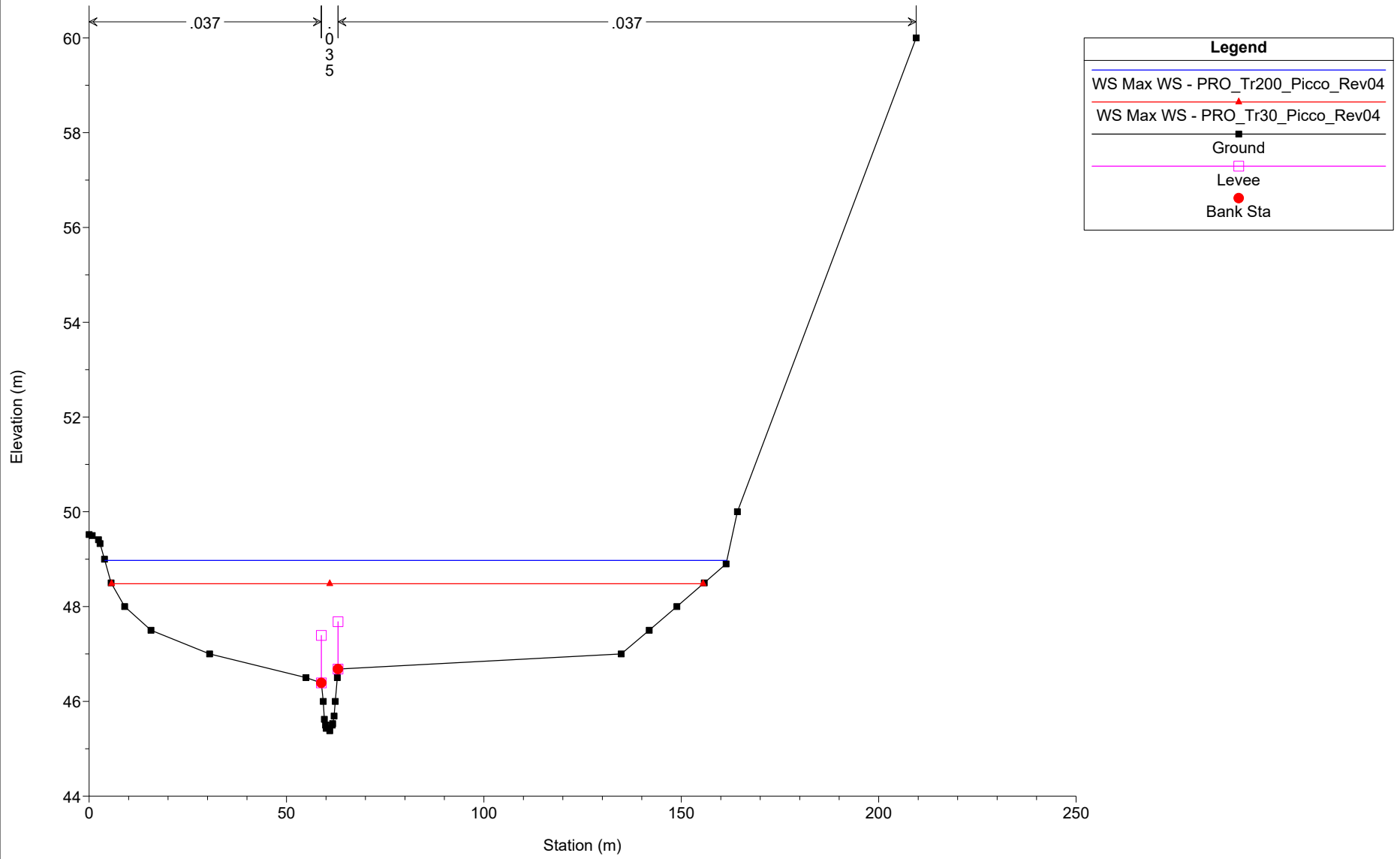
Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 17



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

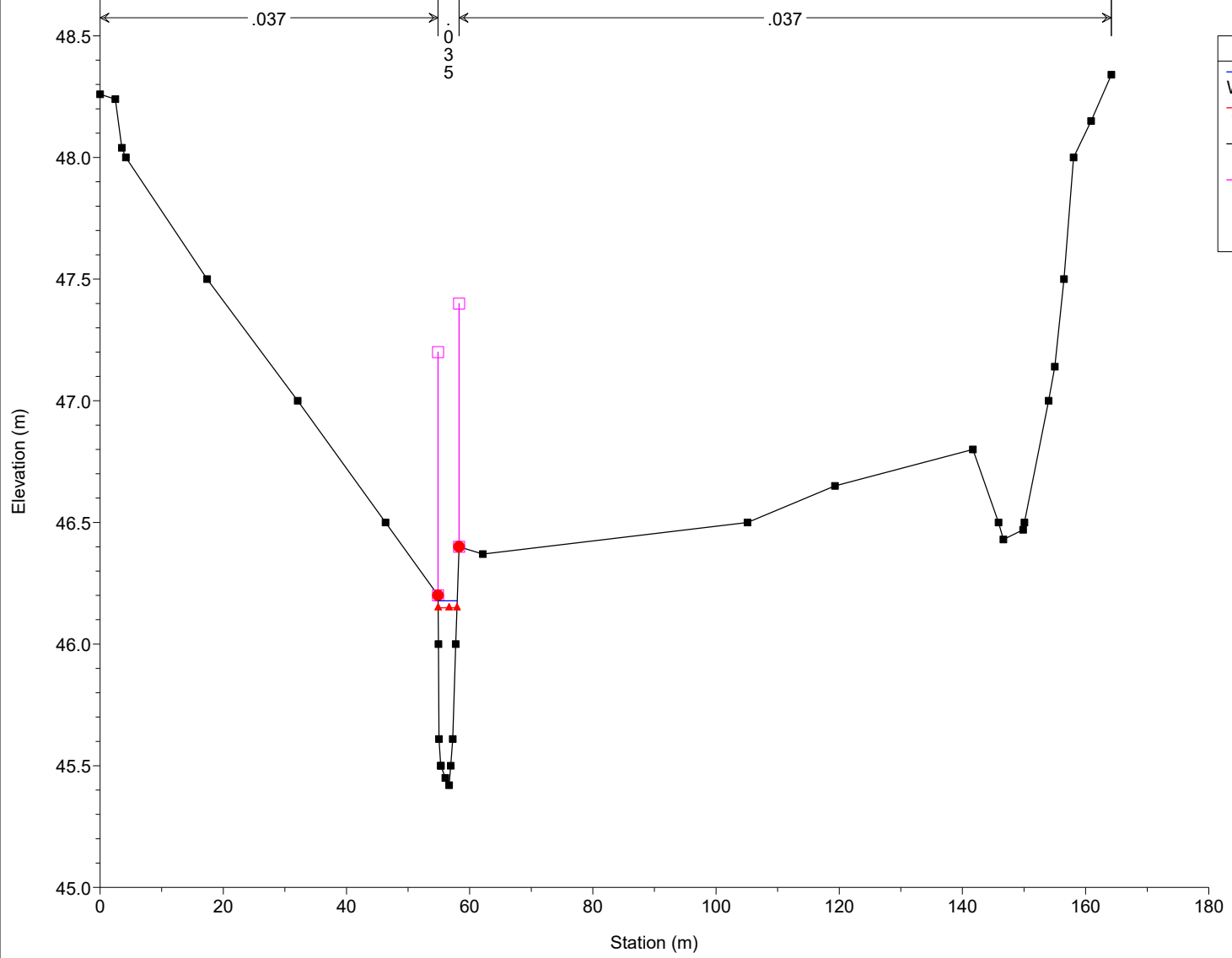
RS = 16





GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

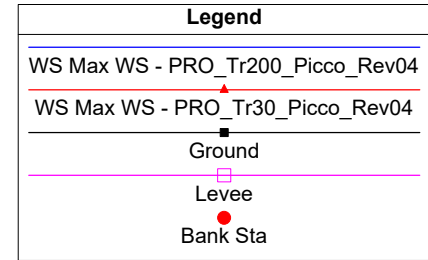
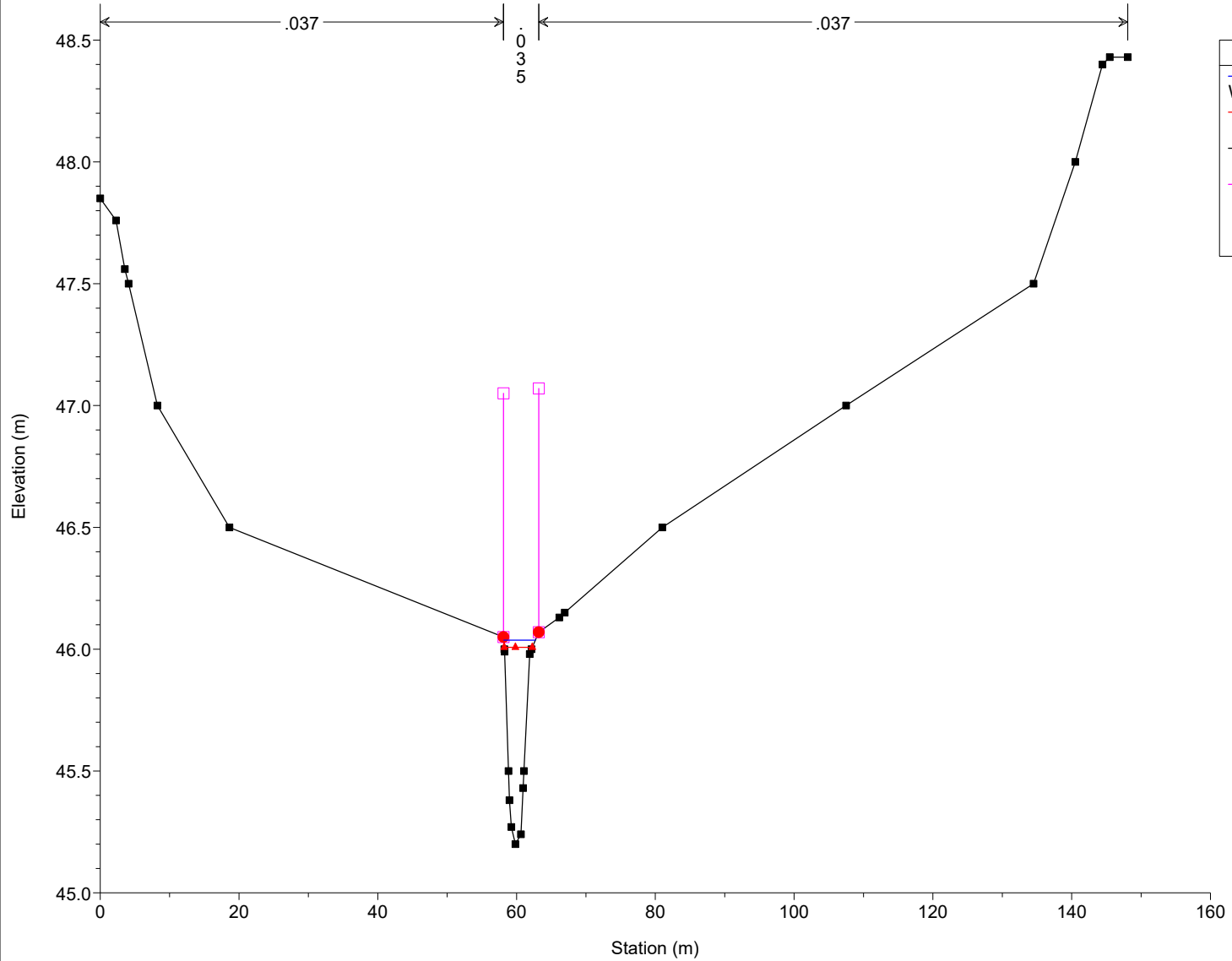
RS = 15



Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

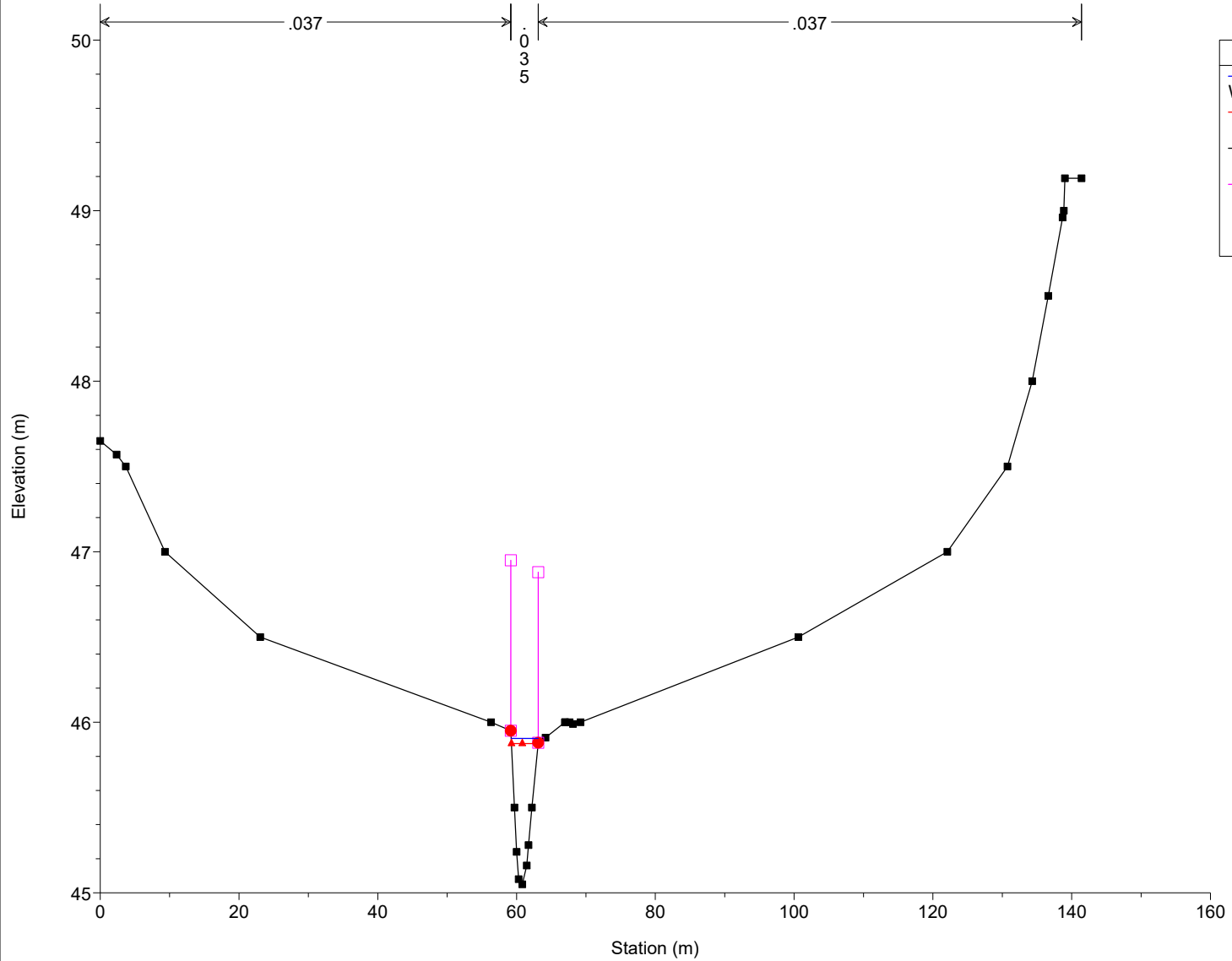
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RS = 14



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

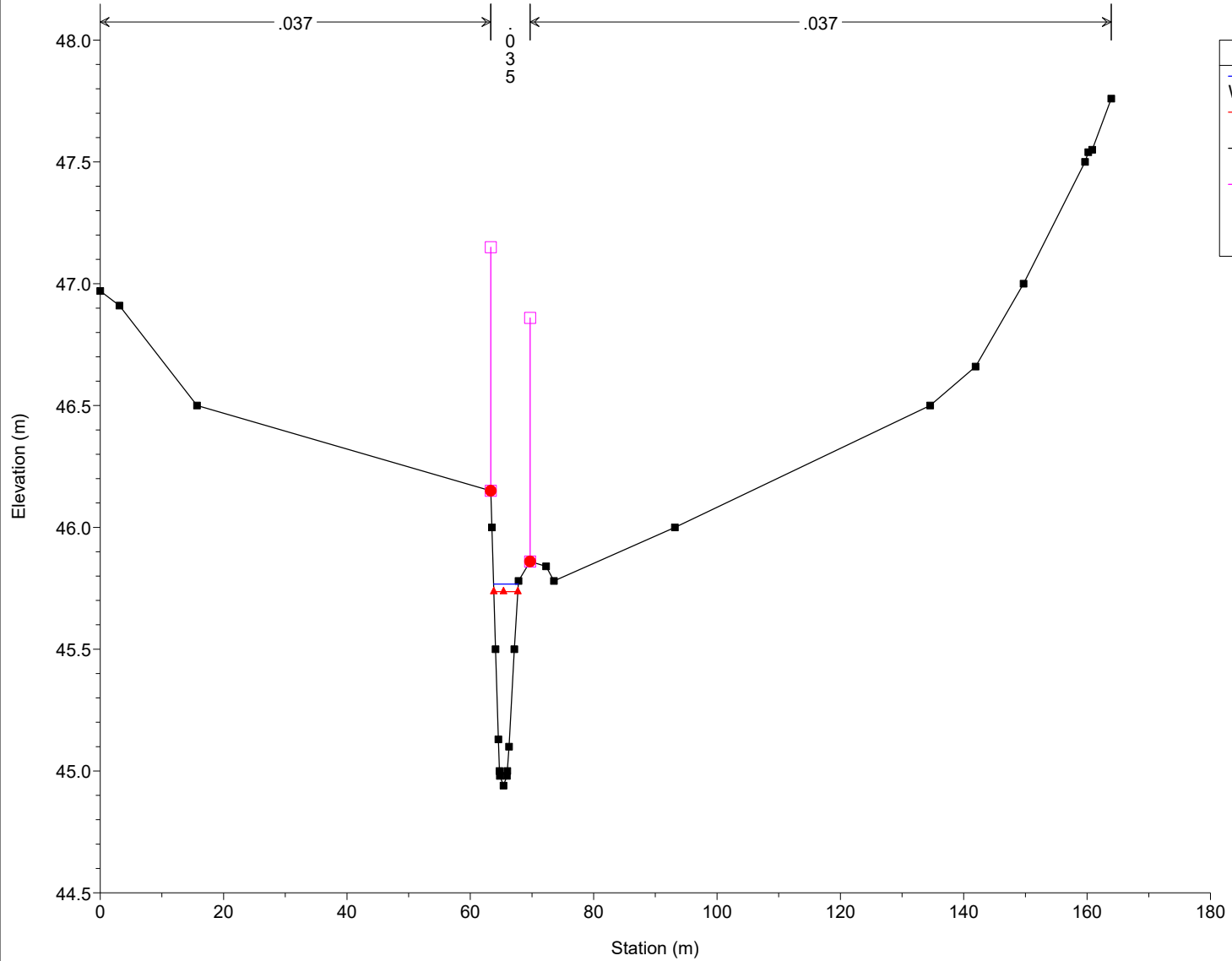
RS = 13



Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

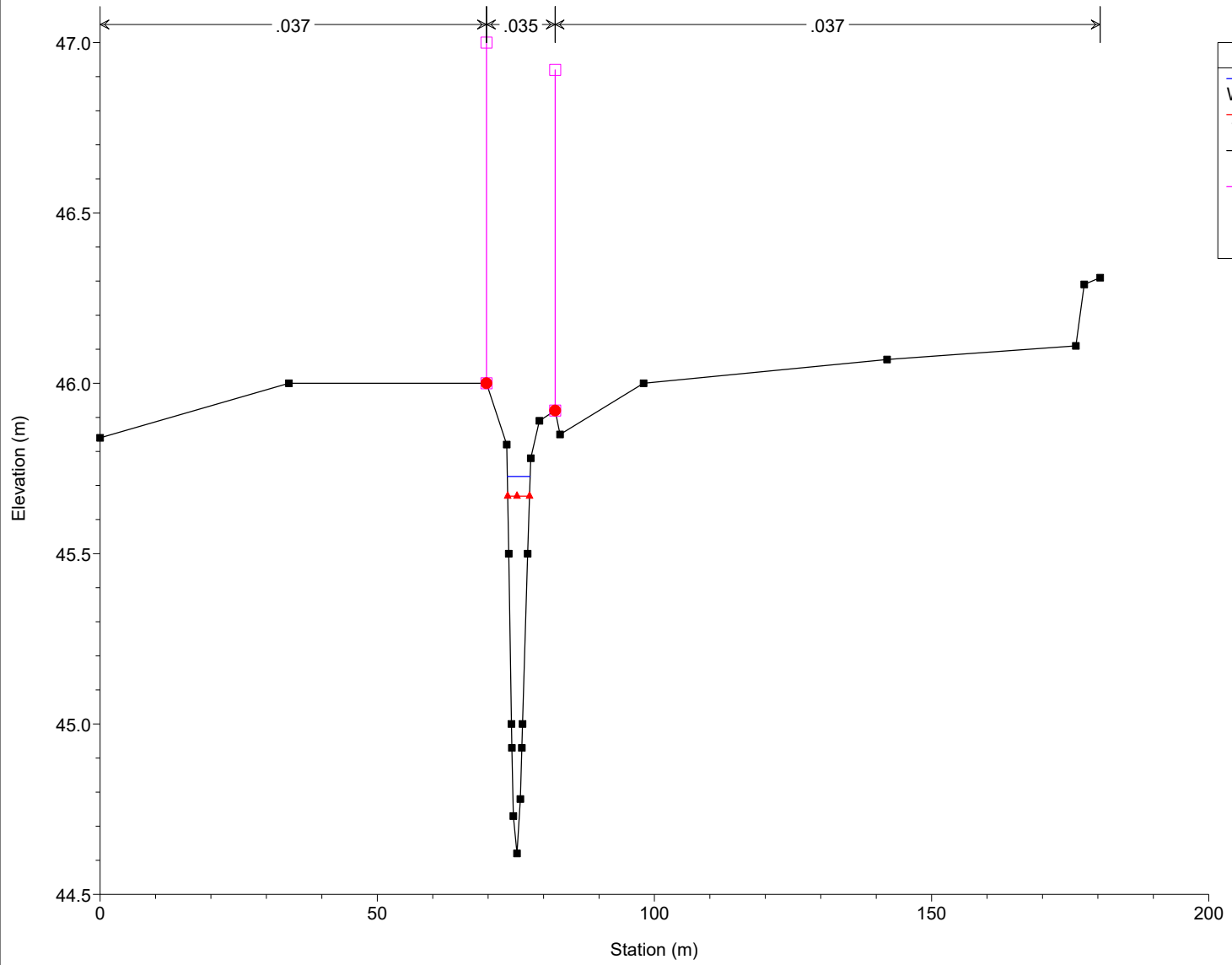
RS = 12



Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

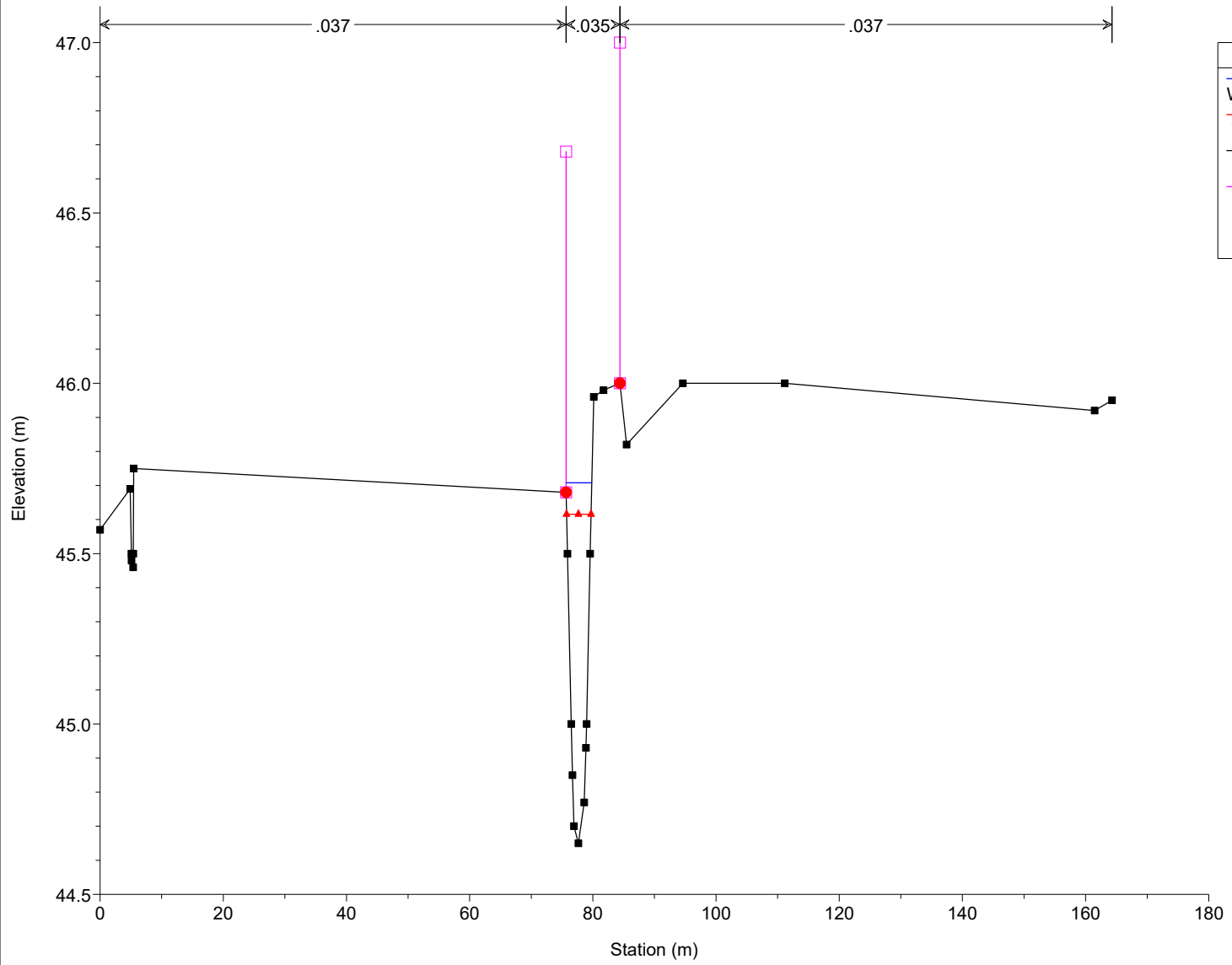
RS = 11



Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

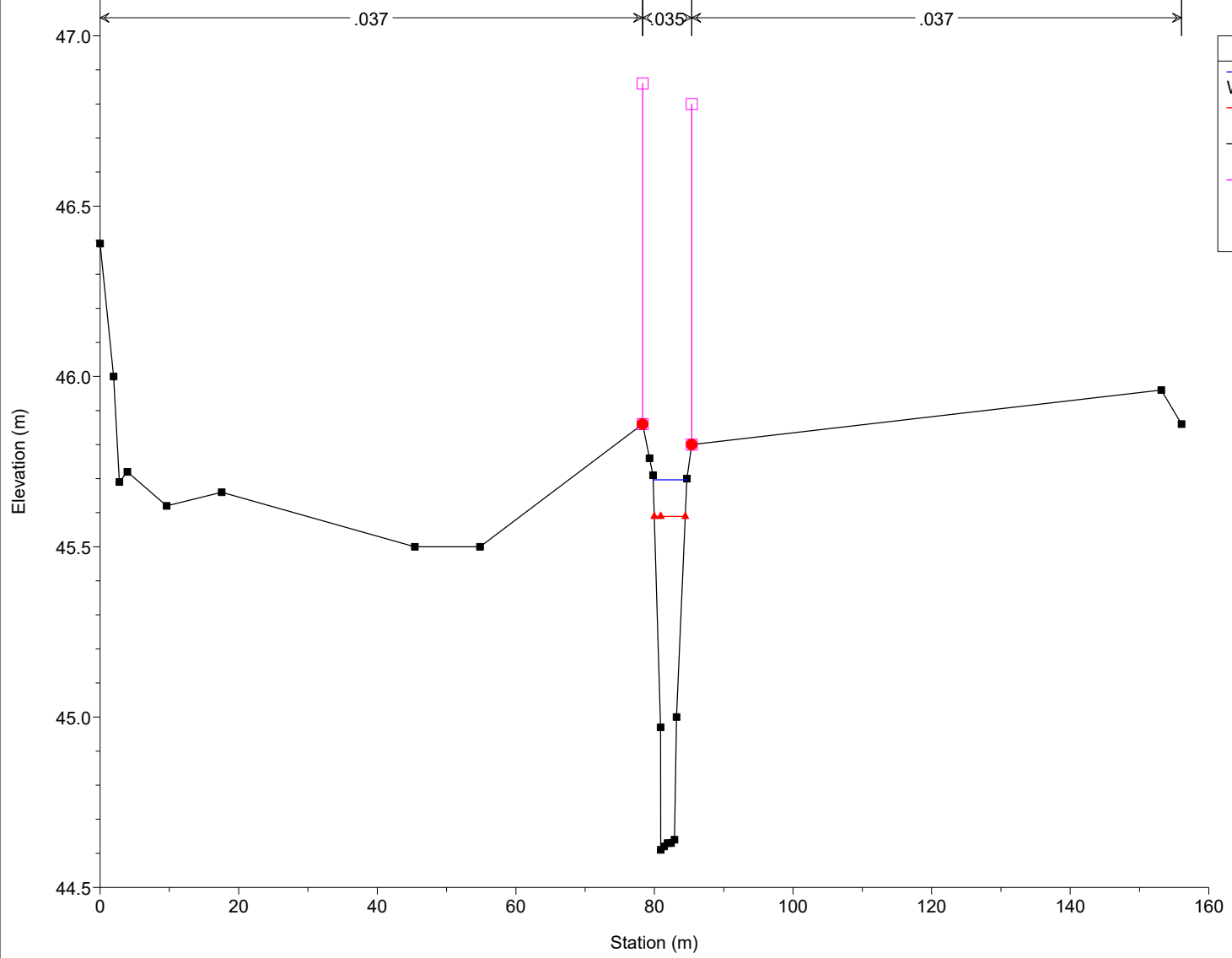
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 10



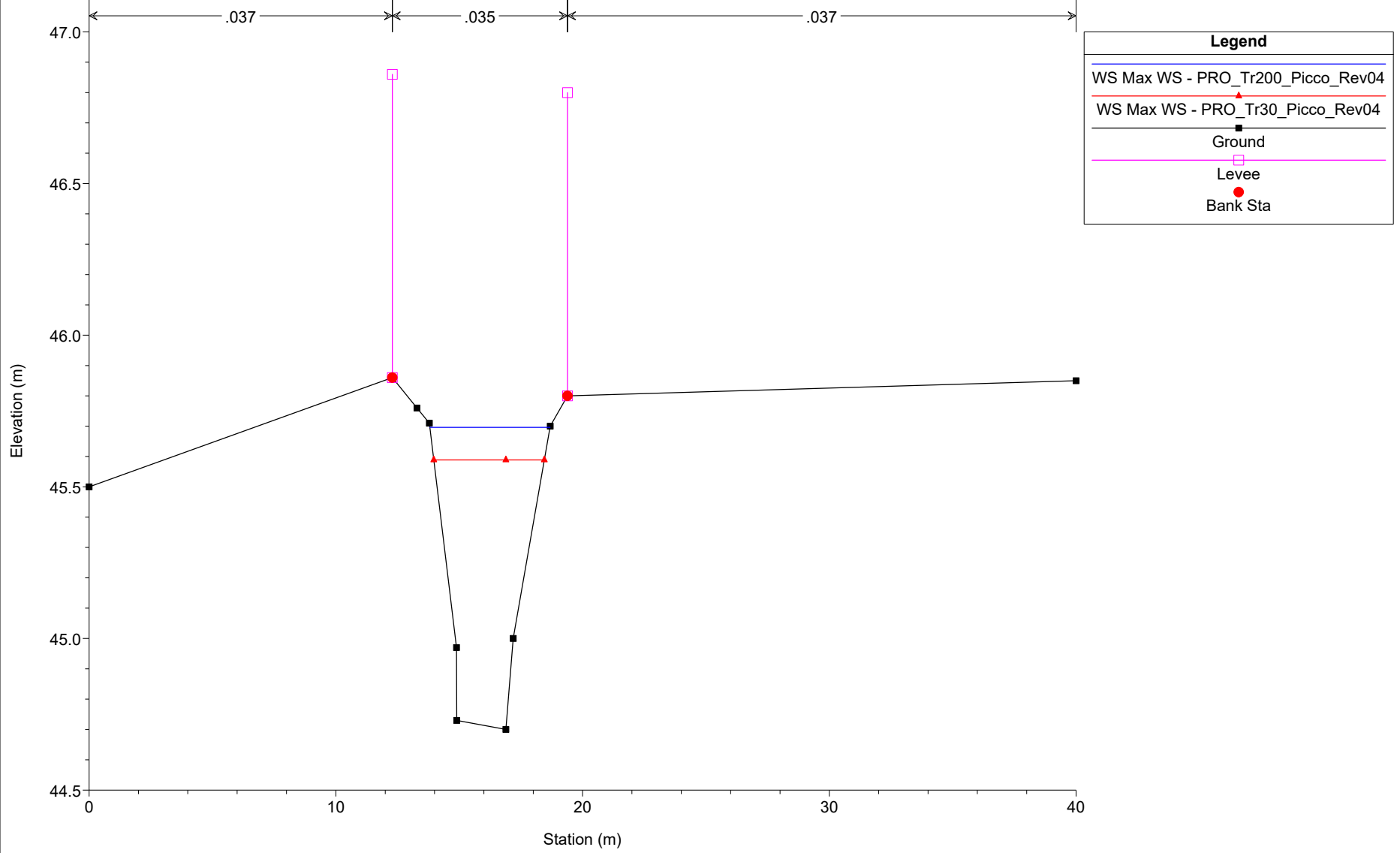
Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 9



Legend	
— (blue line)	WS Max WS - PRO_Tr200_Picco_Rev04
— (red line)	WS Max WS - PRO_Tr30_Picco_Rev04
■ (black square)	Ground
□ (pink square)	Levee
● (red circle)	Bank Sta

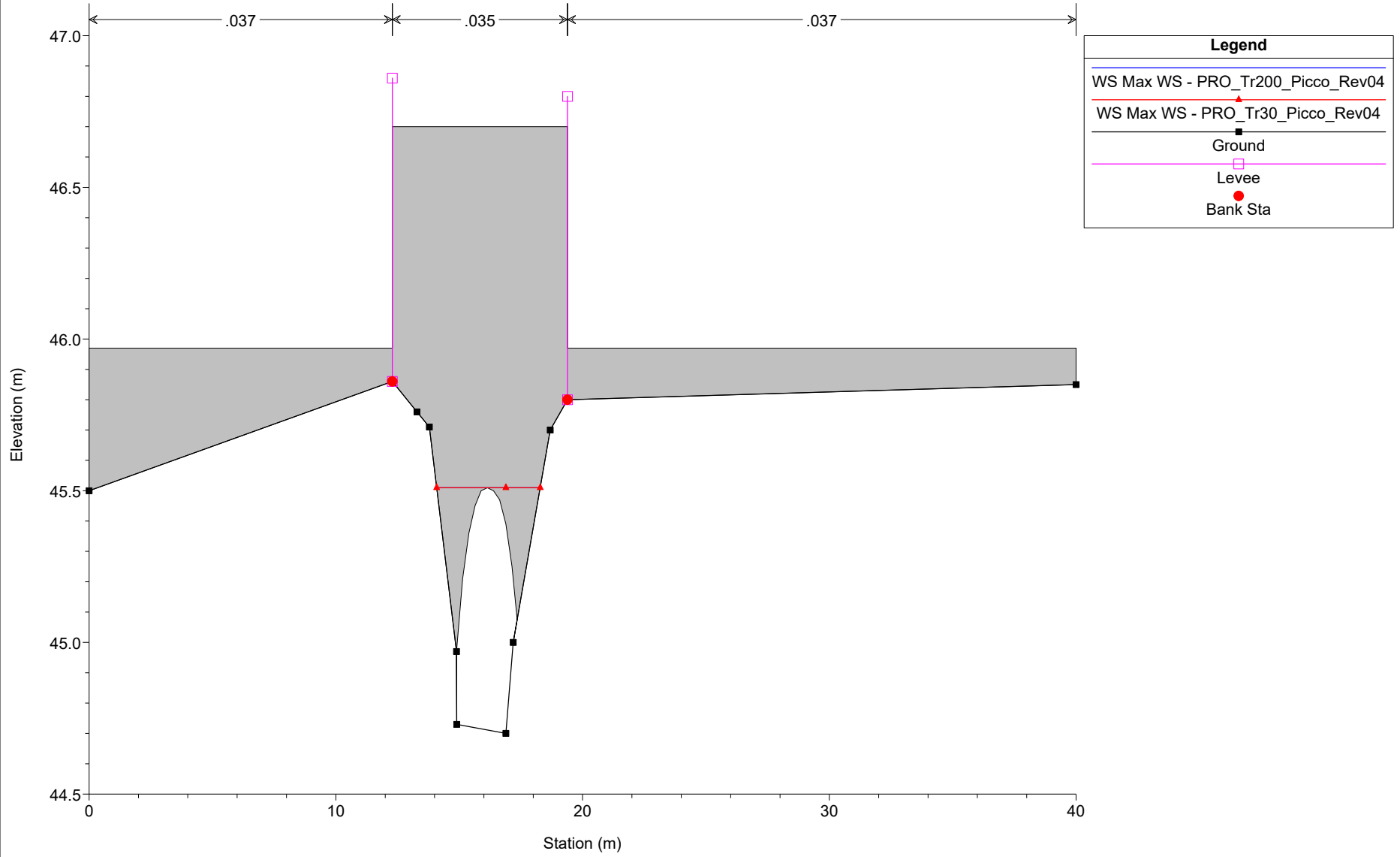
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 8 PGR0004\_c





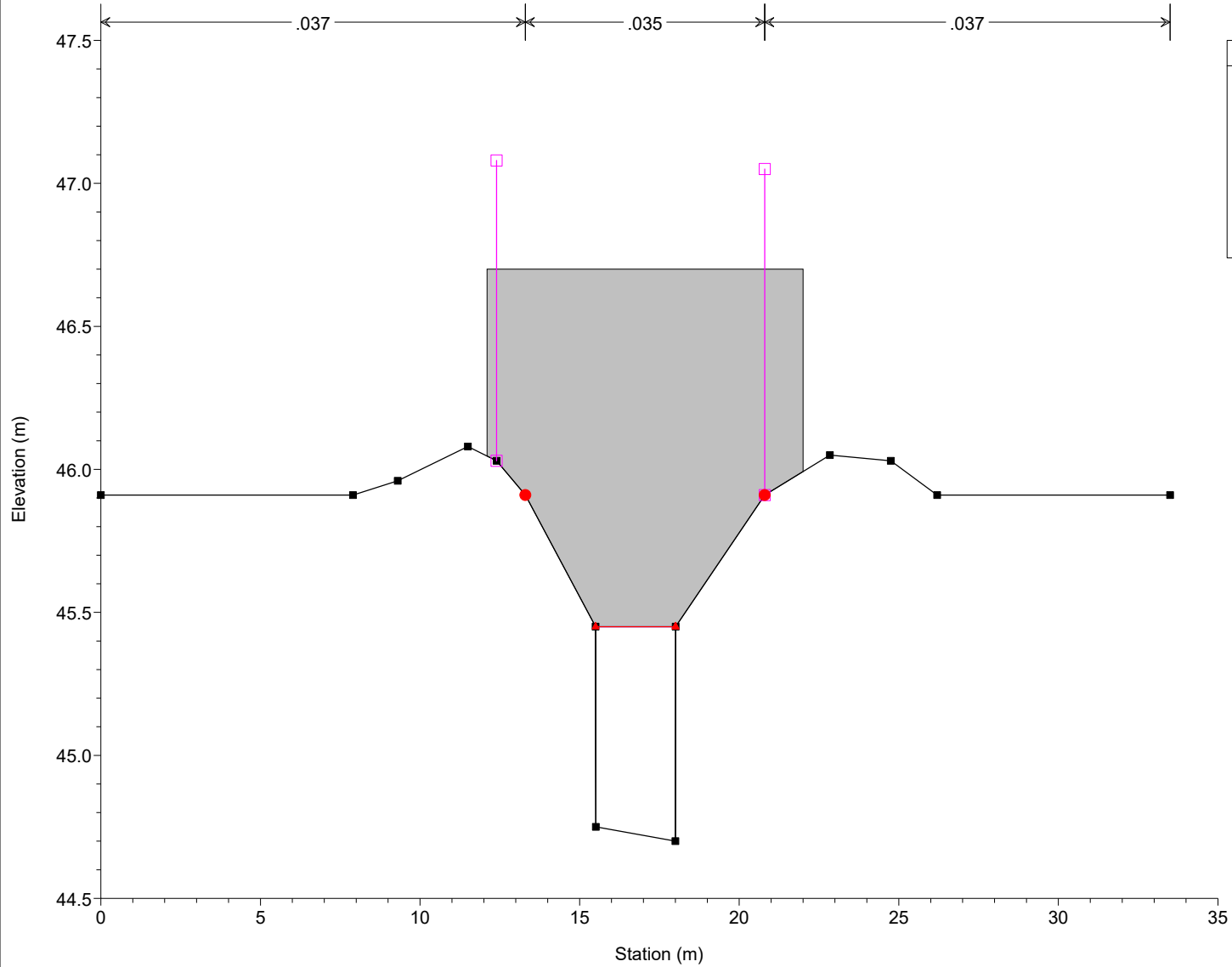
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 7.5 BR Ponte Sanminiatese esistente



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

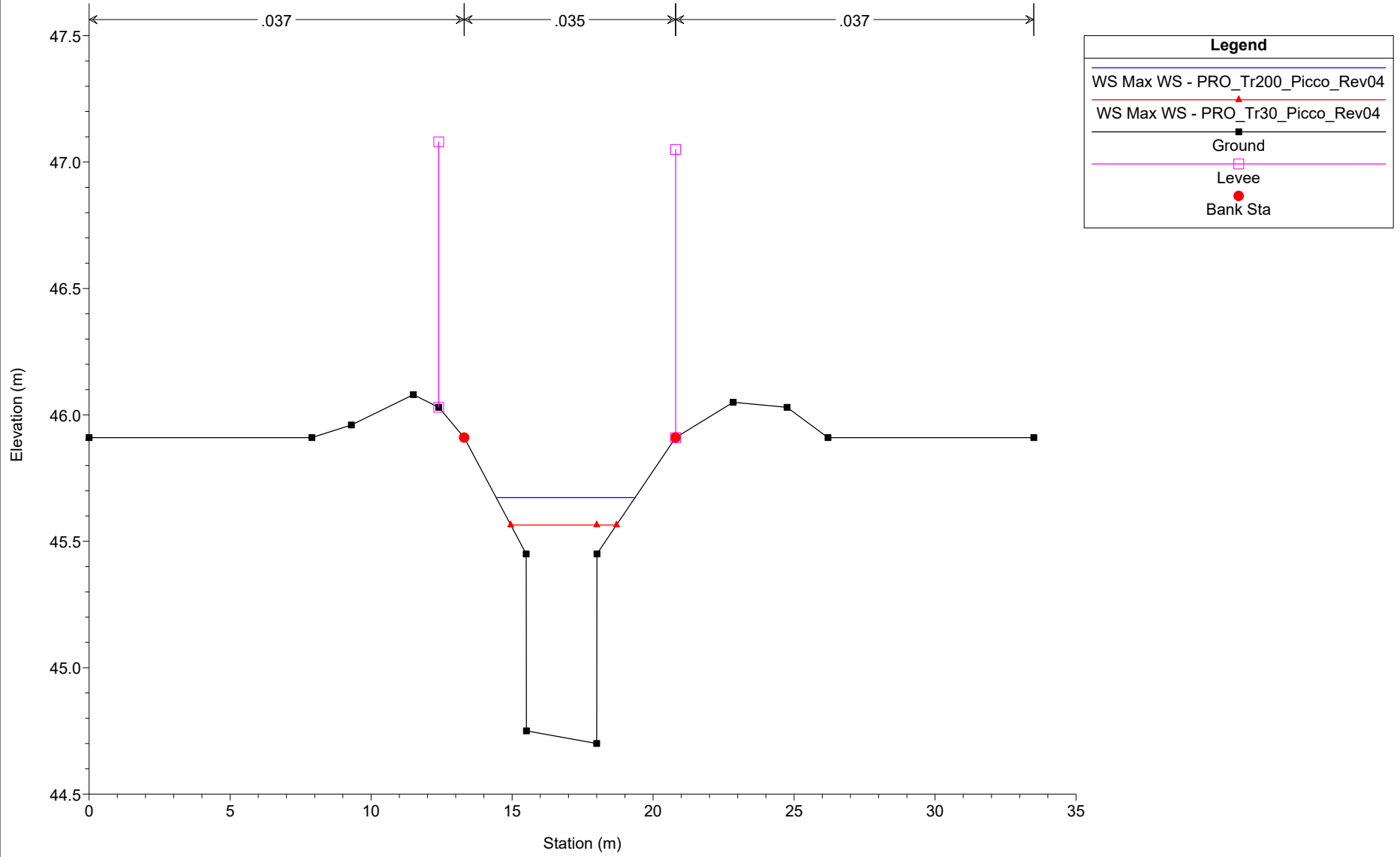
RS = 7.5 BR Ponte Sanminiatense esistente



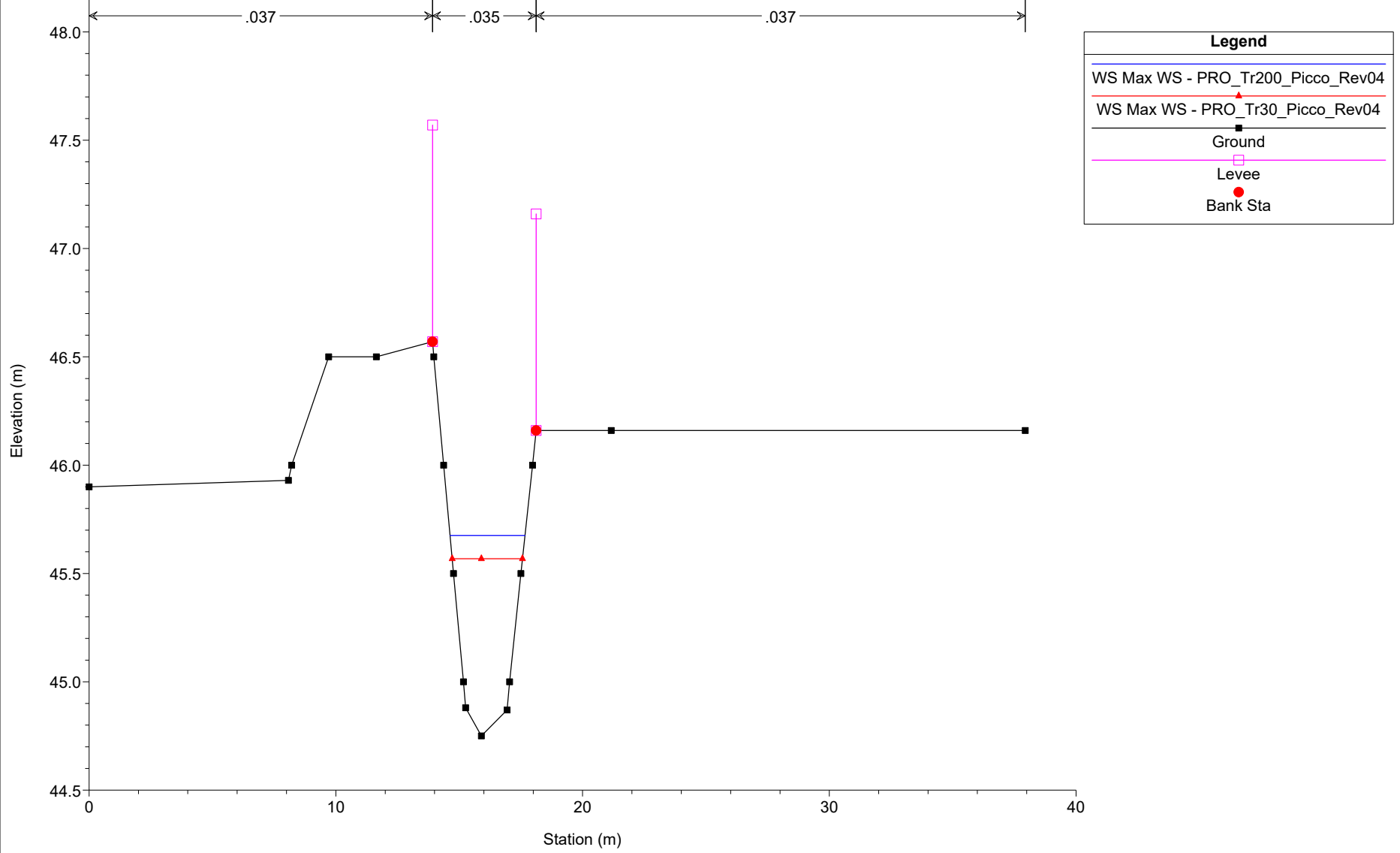
Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 7 PGR0004\_d

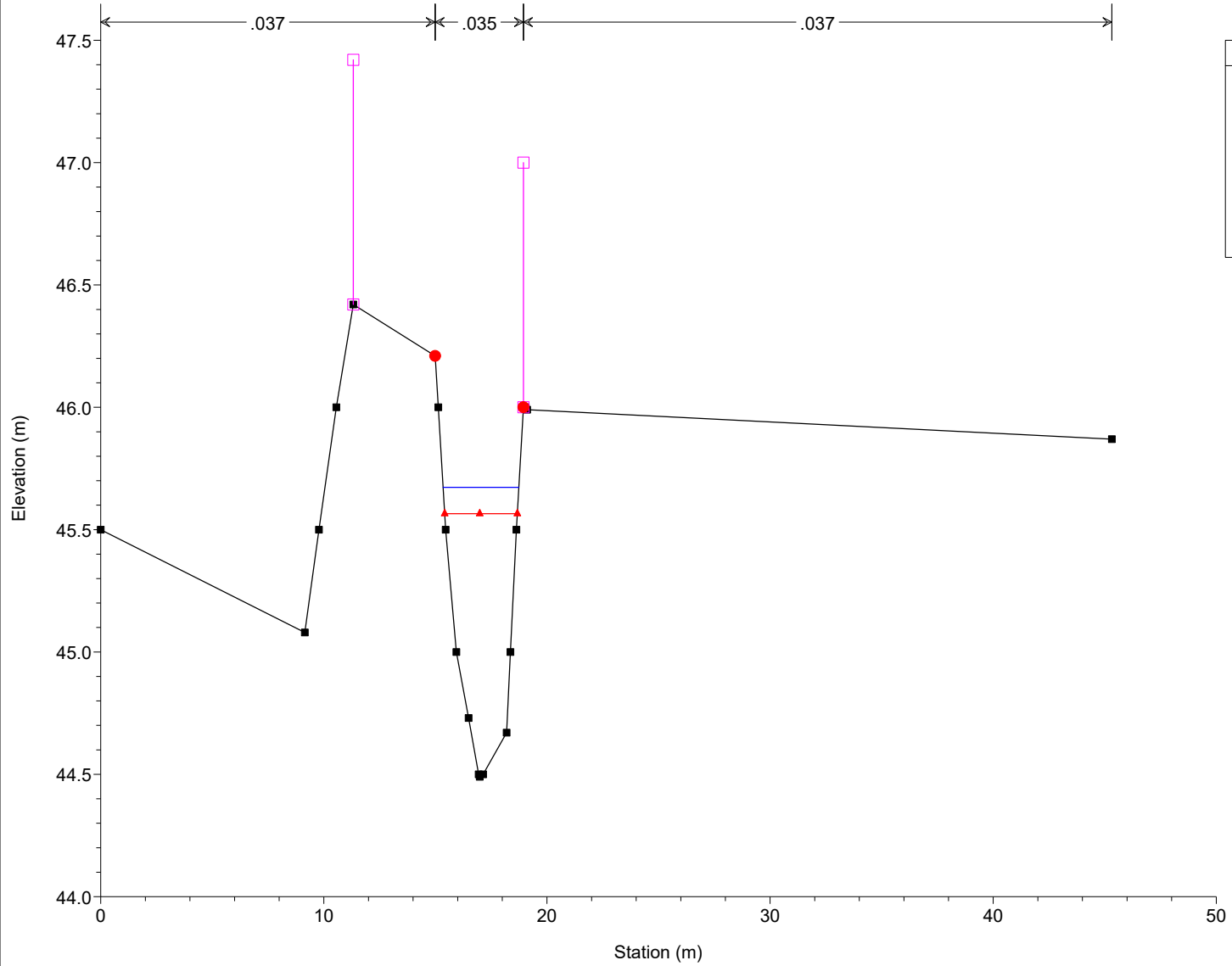


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 6



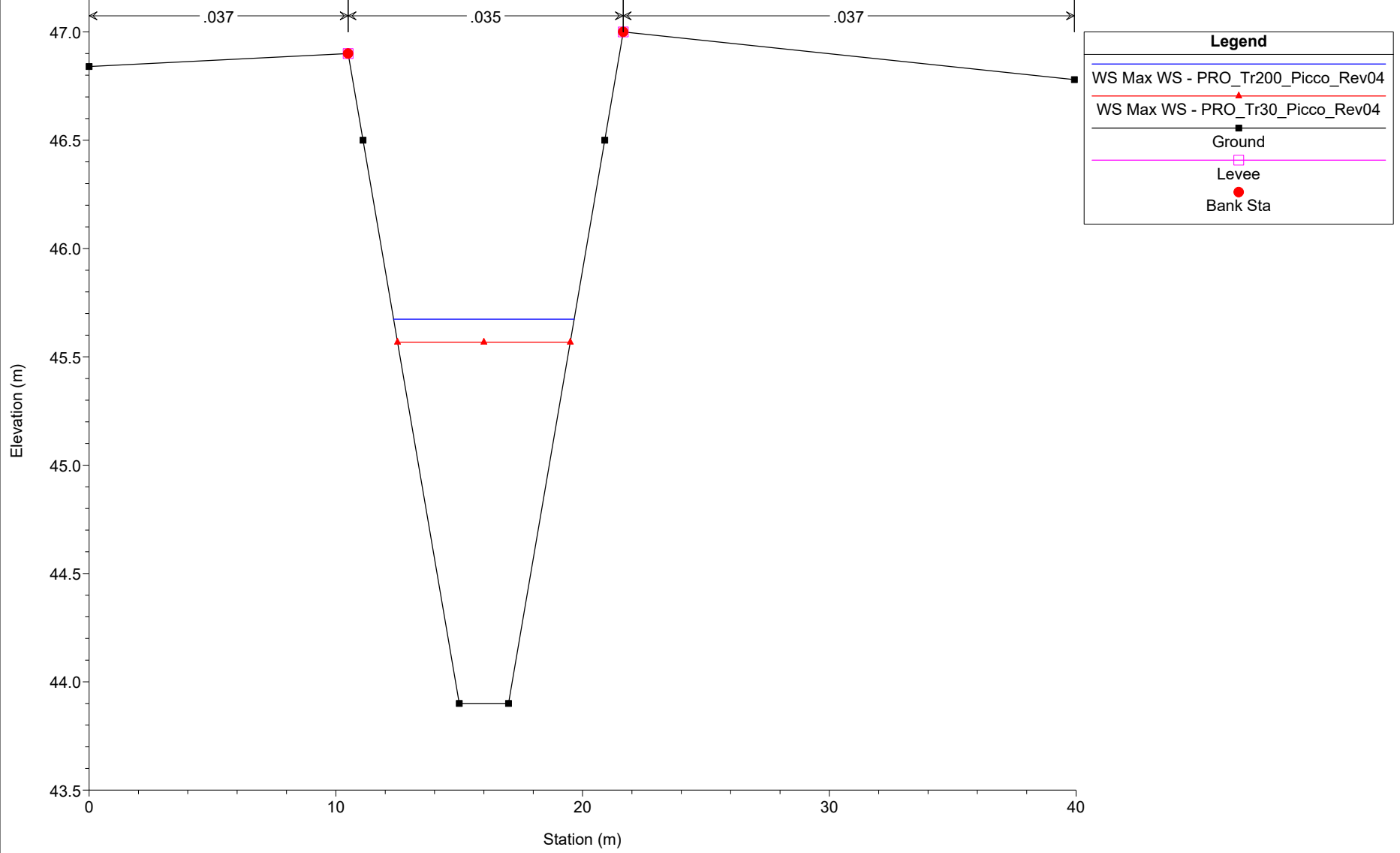
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 5

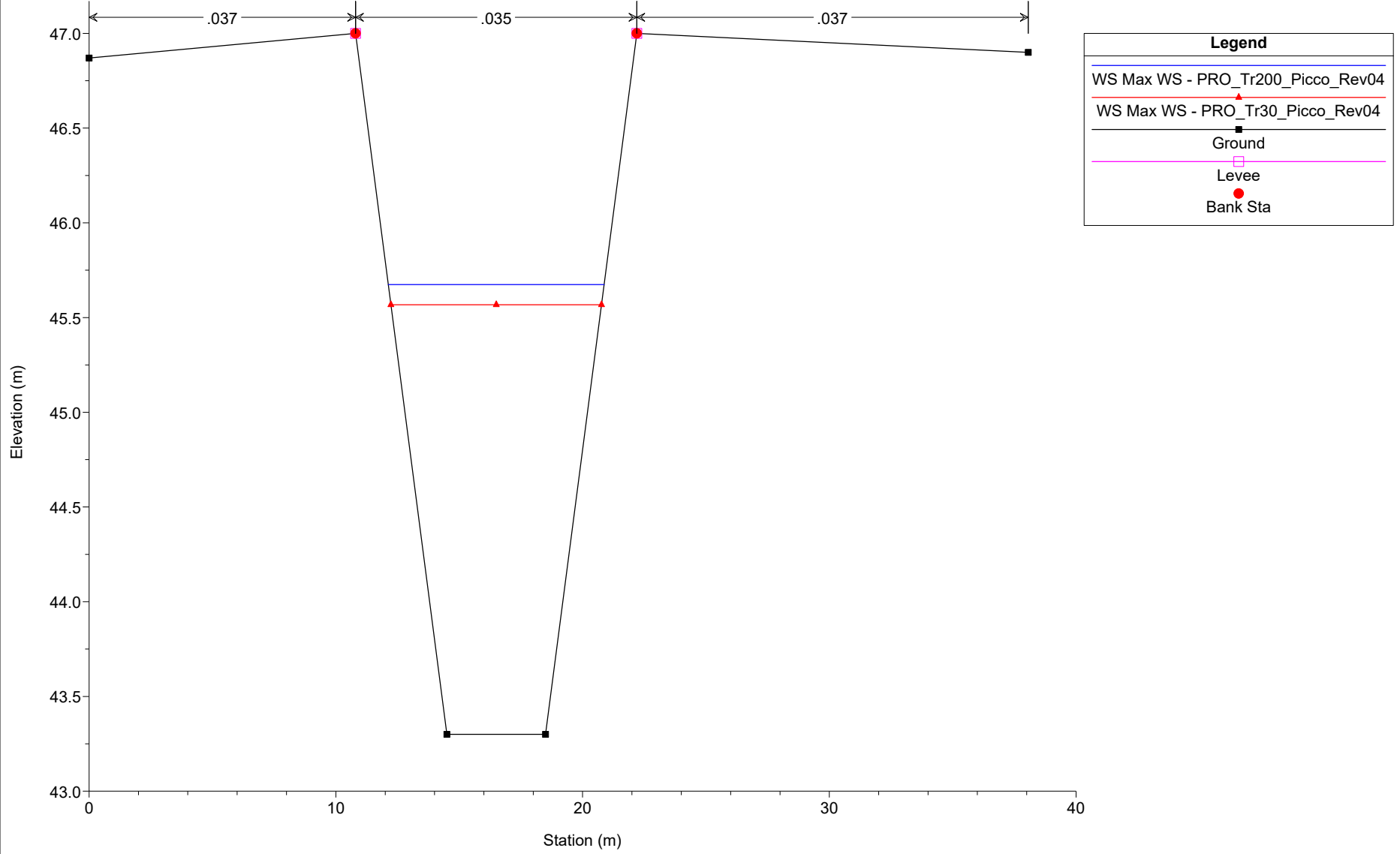


Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	
WS Max WS - PRO_Tr30_Picco_Rev04	
Ground	
Levee	
Bank Sta	

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 4

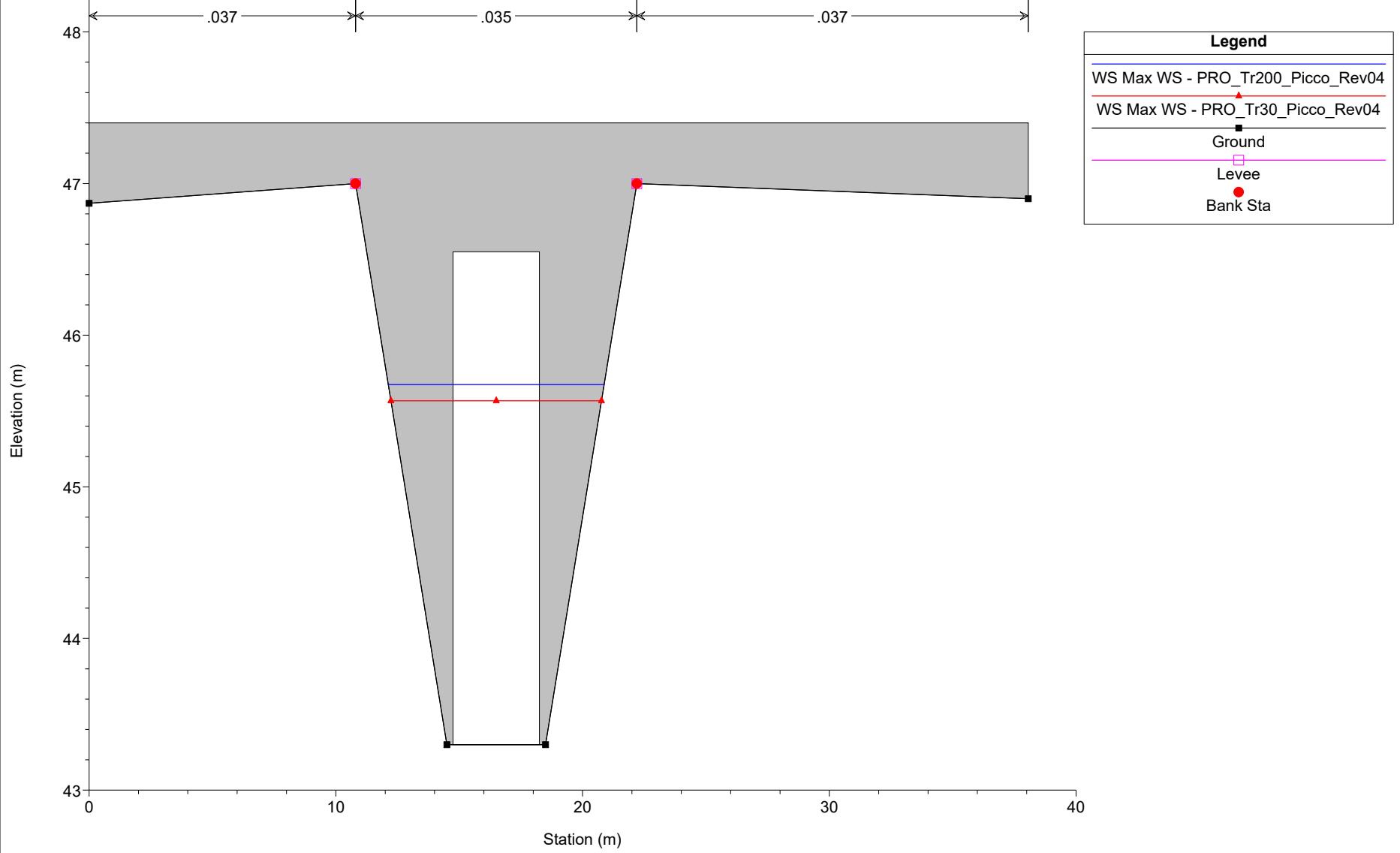


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 3



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 2.5 Culv Ponte sr429

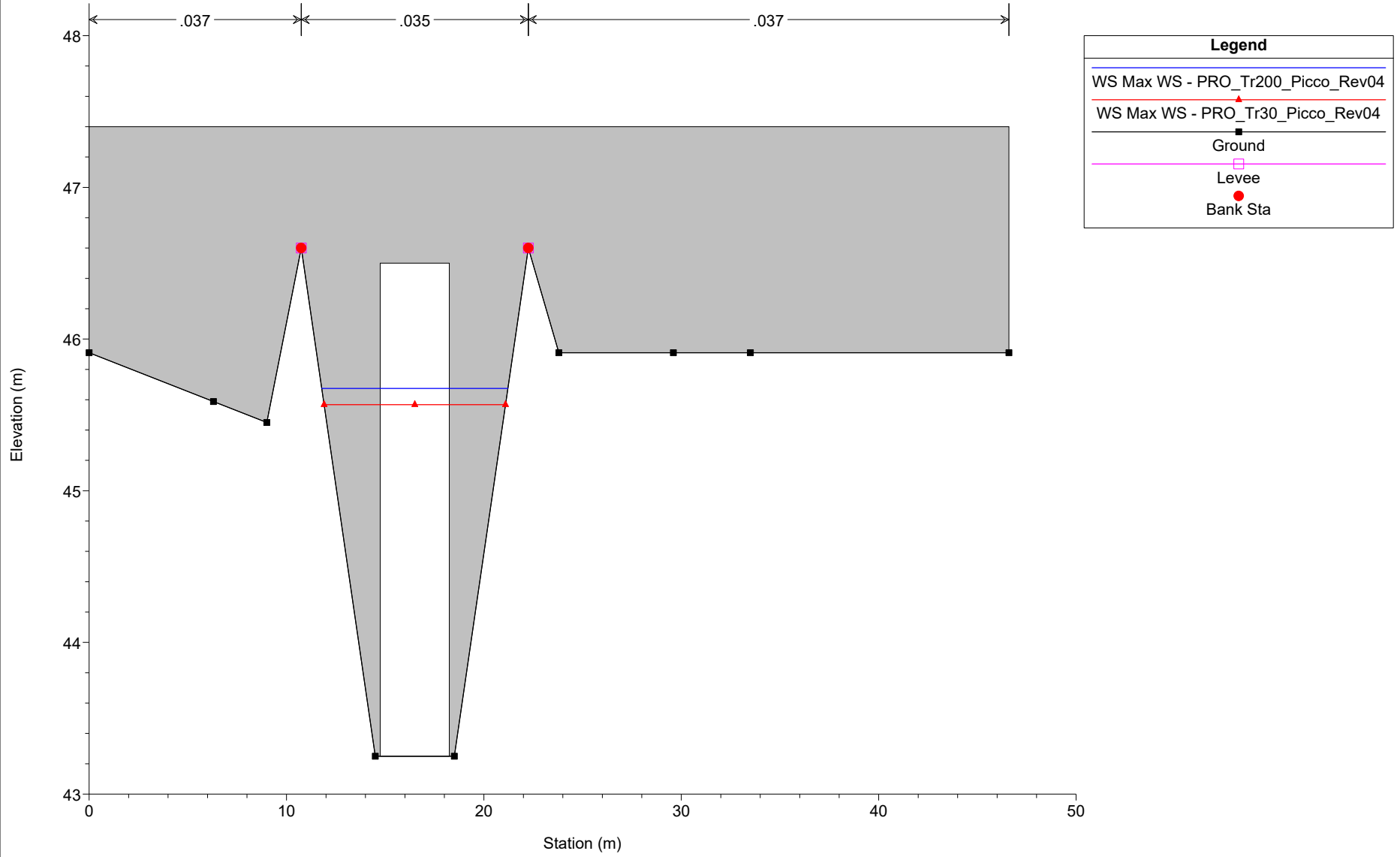


Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	▲
WS Max WS - PRO_Tr30_Picco_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

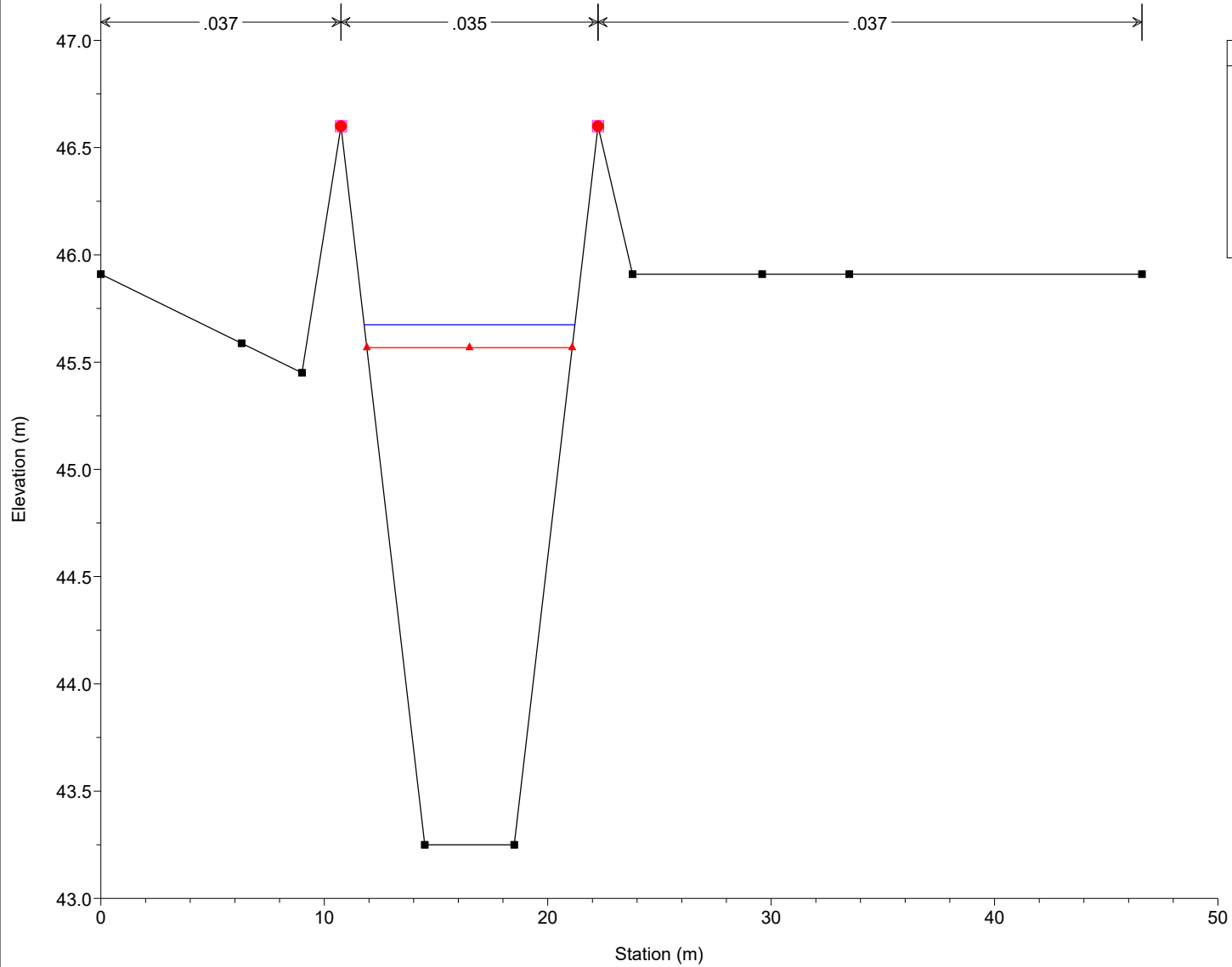


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 2.5 Culv Ponte sr429



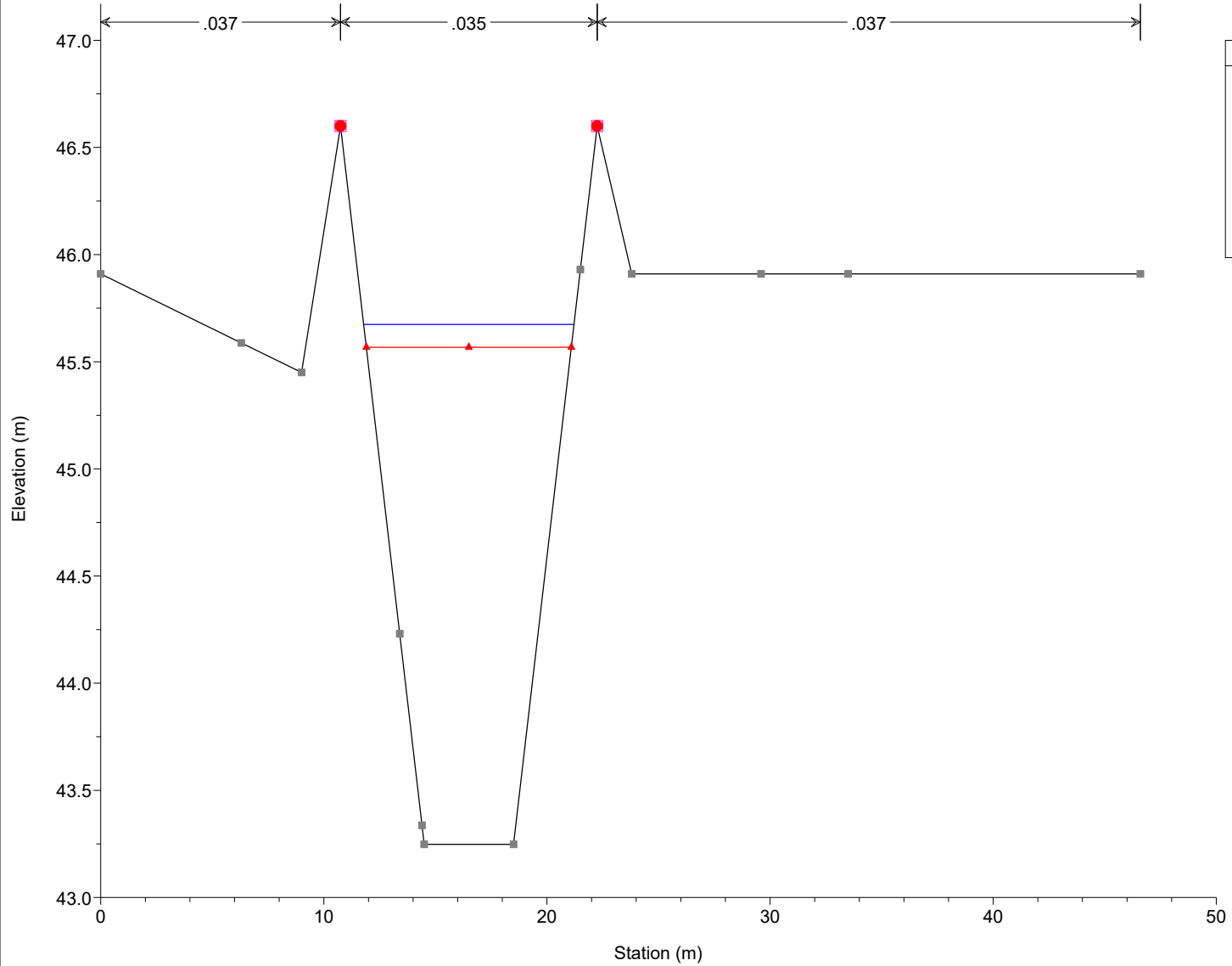
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021  
RS = 2 PGR0007\_c



Legend	
	WS Max WS - PRO_Tr200_Picco_Rev04
	WS Max WS - PRO_Tr30_Picco_Rev04
	Ground
	Levee
	Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

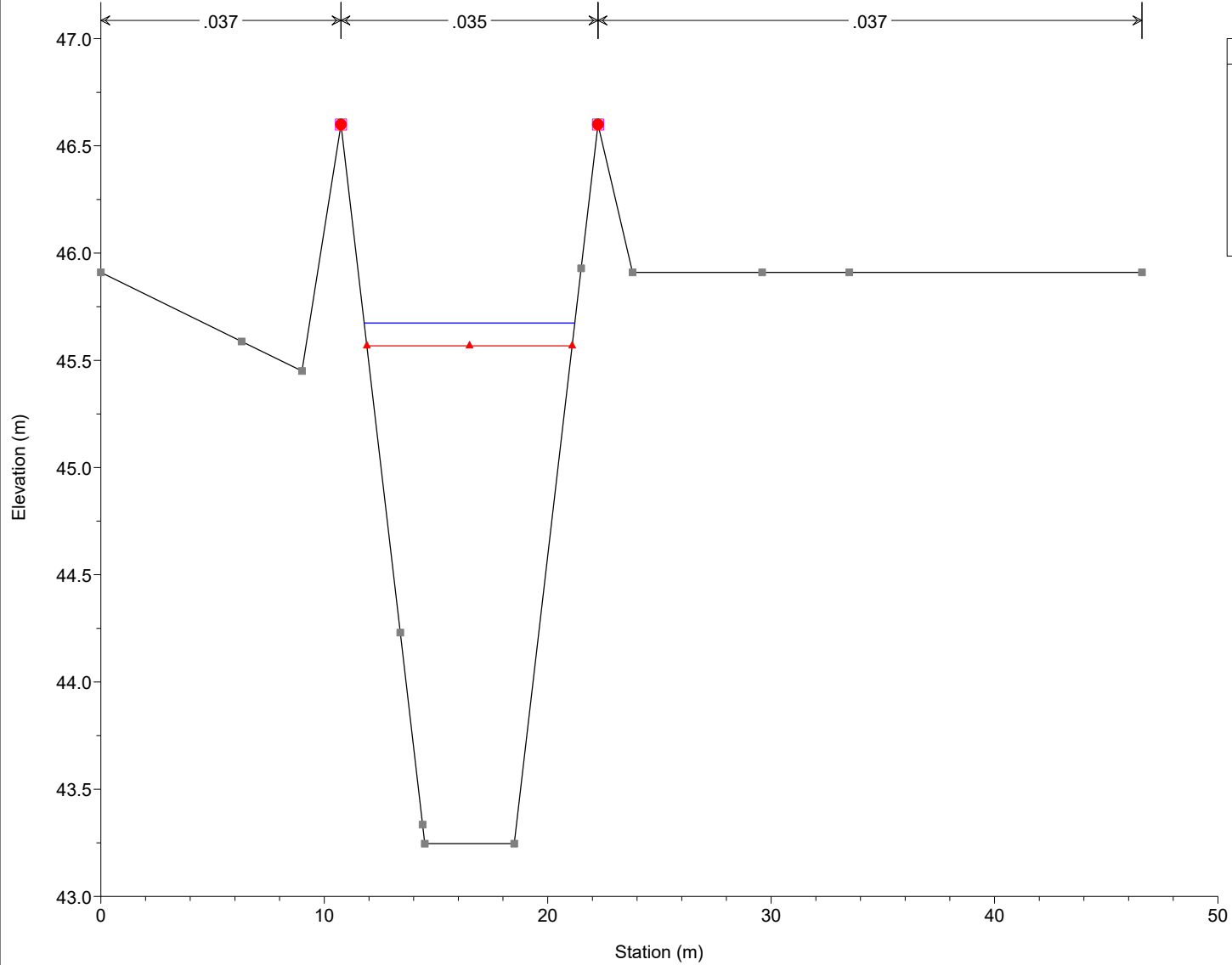
RS = 1.8000\*



Legend	
	WS Max WS - PRO_Tr200_Picco_Rev04
	WS Max WS - PRO_Tr30_Picco_Rev04
	Ground
	Levee
	Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

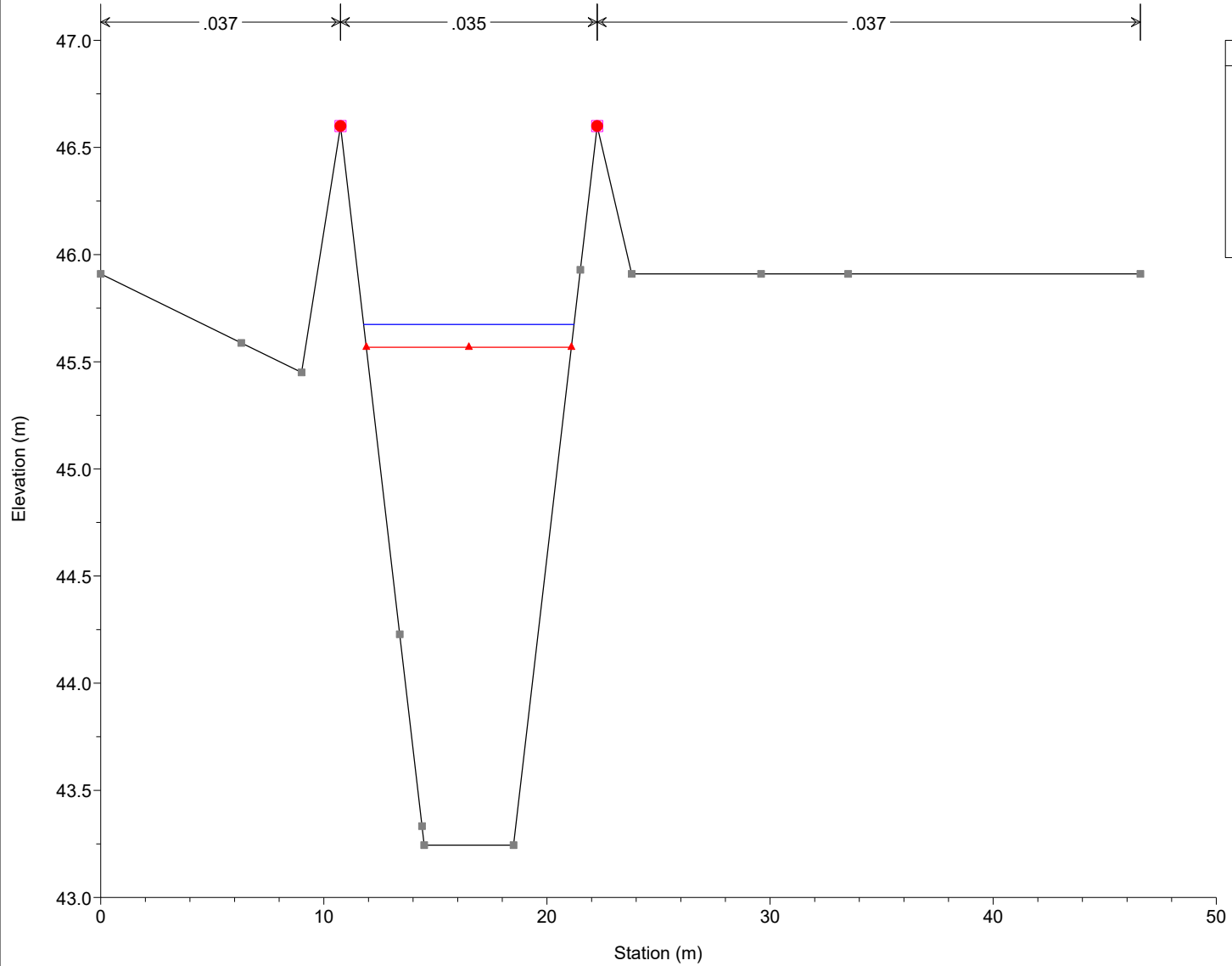
RS = 1.6000\*



Legend	
WS Max WS - PRO_Tr200_Picco_Rev04	
WS Max WS - PRO_Tr30_Picco_Rev04	
Ground	
Levee	
Bank Sta	

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

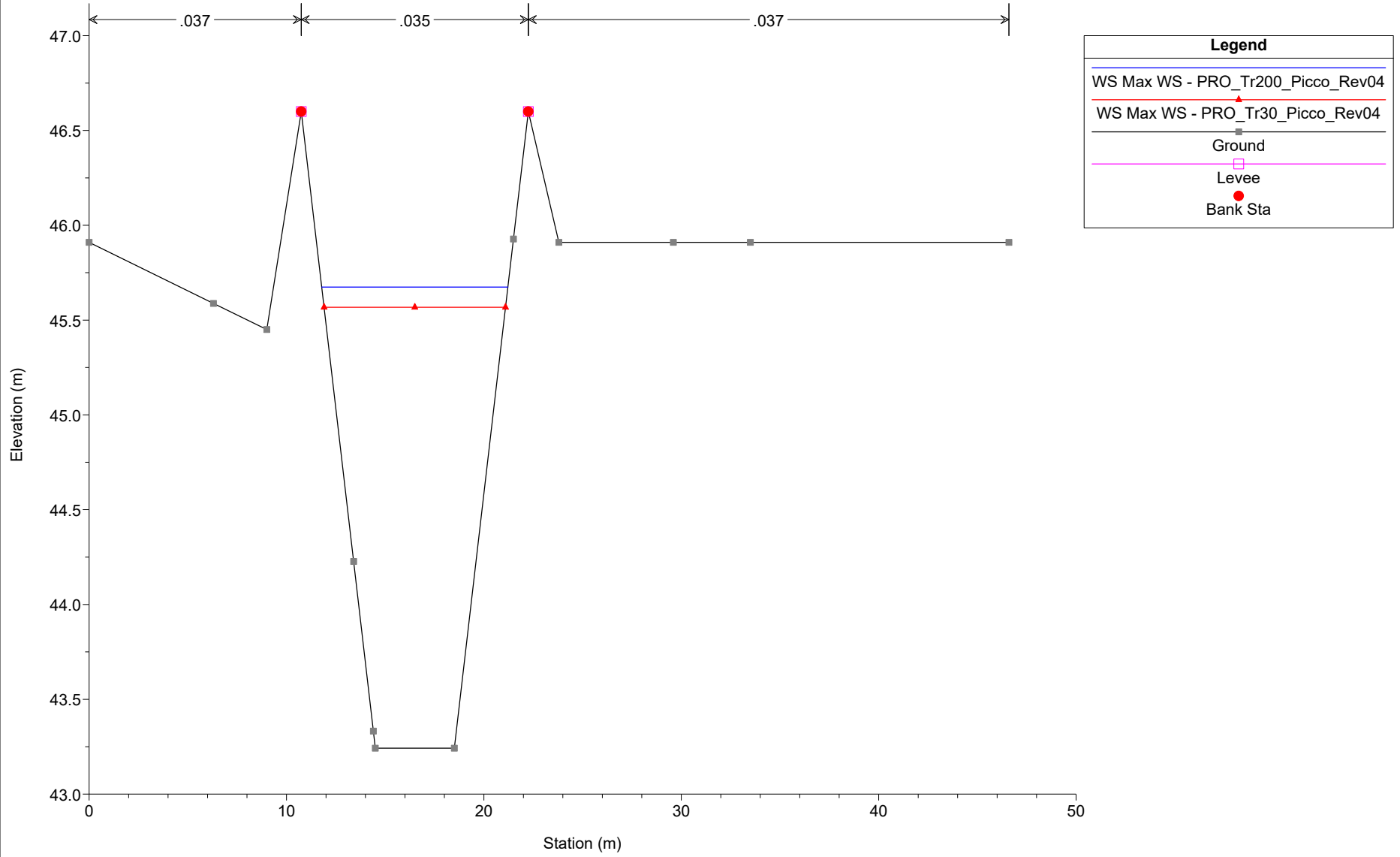
RS = 1.4000\*



Legend	
	WS Max WS - PRO_Tr200_Picco_Rev04
	WS Max WS - PRO_Tr30_Picco_Rev04
	Ground
	Levee
	Bank Sta

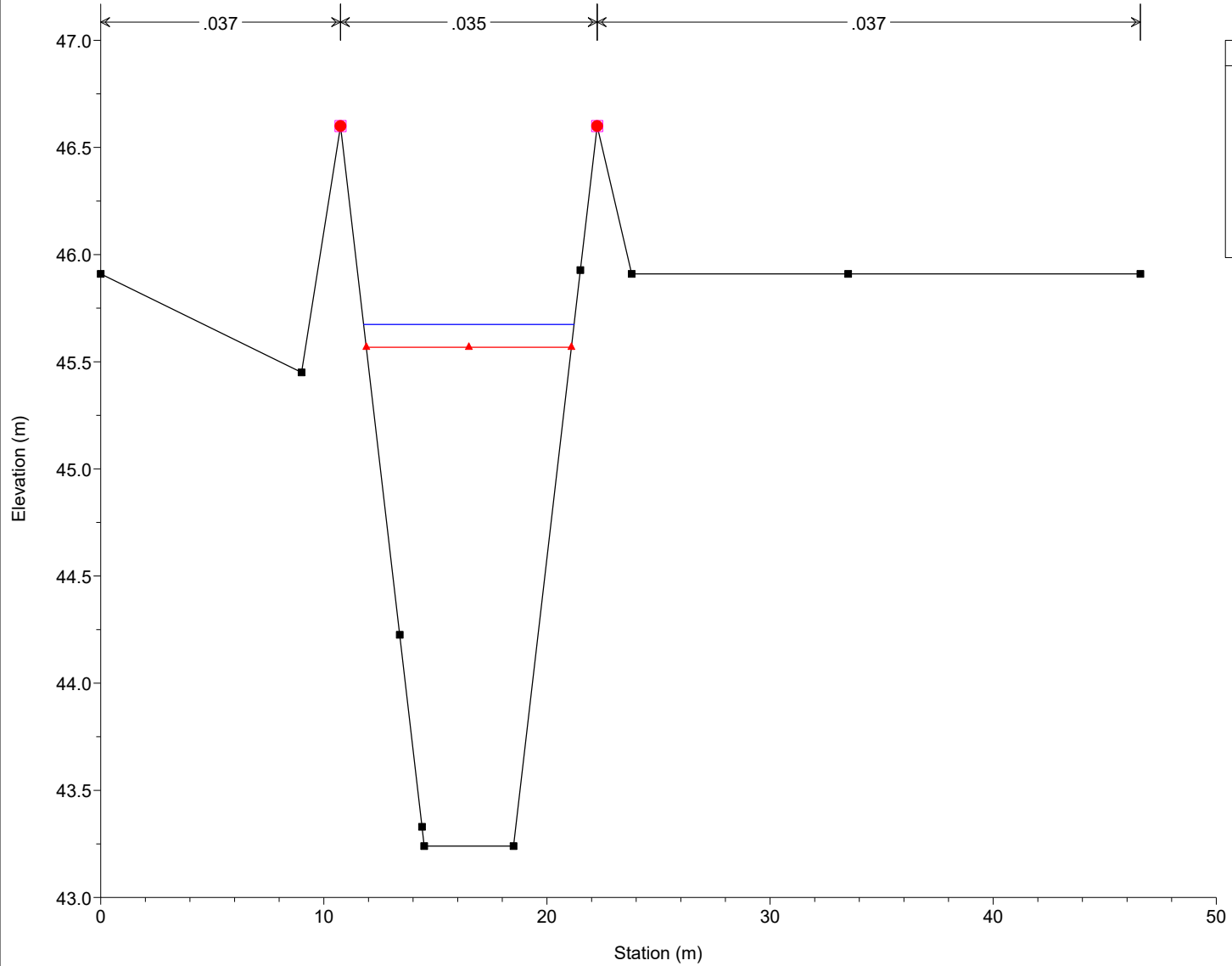
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 1.2000\*



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_Picco\_Rev04 8/27/2021 2) PRO\_Tr30\_Picco\_Rev04 8/27/2021

RS = 1 PGR0007\_d



Legend	
	WS Max WS - PRO_Tr200_Picco_Rev04
	WS Max WS - PRO_Tr30_Picco_Rev04
	Ground
	Levee
	Bank Sta

HEC-RAS River: Grignana Reach: Grignana Profile: Max WS

Reach	River Sta	Profile	Plan	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
Grignana	27	Max WS	PRO_Tr200_Picco_Rev04	20.18	49.83	51.56		51.61	0.006464	1.58	21.25	78.93	0.56
Grignana	27	Max WS	PRO_Tr30_Picco_Rev04	14.03	49.83	51.48		51.55	0.007697	1.75	15.03	72.17	0.60
Grignana	26	Max WS	PRO_Tr200_Picco_Rev04	20.18	49.37	51.29		51.37	0.005724	1.66	20.57	76.67	0.59
Grignana	26	Max WS	PRO_Tr30_Picco_Rev04	13.98	49.37	51.24		51.30	0.004014	1.45	16.97	69.88	0.49
Grignana	25	Max WS	PRO_Tr200_Picco_Rev04	20.17	49.08	50.91	50.94	51.71	0.028070	3.97	5.09	5.42	1.31
Grignana	25	Max WS	PRO_Tr30_Picco_Rev04	13.98	49.08	50.88	50.83	51.29	0.014781	2.85	4.91	5.29	0.95
Grignana	24	Max WS	PRO_Tr200_Picco_Rev04	20.17	48.66	50.16	50.23	50.38	0.011656	2.67	14.69	69.06	0.87
Grignana	24	Max WS	PRO_Tr30_Picco_Rev04	13.98	48.66	50.10	50.18	50.34	0.011470	2.56	10.29	65.25	0.85
Grignana	23	Max WS	PRO_Tr200_Picco_Rev04	20.16	48.44	49.63	49.69	49.81	0.013945	2.73	14.40	70.79	0.94
Grignana	23	Max WS	PRO_Tr30_Picco_Rev04	13.98	48.44	49.56	49.62	49.74	0.013684	2.56	10.03	55.71	0.92
Grignana	22	Max WS	PRO_Tr200_Picco_Rev04	2.01	47.85	48.97		48.98	0.000035	0.13	22.94	61.73	0.05
Grignana	22	Max WS	PRO_Tr30_Picco_Rev04	13.79	47.85	48.86		48.91	0.004468	1.37	16.33	57.11	0.52
Grignana	21	Max WS	PRO_Tr200_Picco_Rev04	2.00	47.46	48.97		48.97	0.000004	0.06	53.71	90.70	0.02
Grignana	21	Max WS	PRO_Tr30_Picco_Rev04	13.42	47.46	48.49	48.51	48.59	0.008986	2.09	13.30	73.37	0.78
Grignana	20	Max WS	PRO_Tr200_Picco_Rev04	2.01	46.92	48.97		48.97	0.000001	0.03	113.23	135.55	0.01
Grignana	20	Max WS	PRO_Tr30_Picco_Rev04	1.86	46.92	48.48		48.48	0.000005	0.07	50.88	116.05	0.02
Grignana	19	Max WS	PRO_Tr200_Picco_Rev04	2.02	46.33	48.97		48.97	0.000000	0.02	192.63	159.41	0.00
Grignana	19	Max WS	PRO_Tr30_Picco_Rev04	1.87	46.33	48.48		48.48	0.000000	0.02	118.08	143.05	0.01
Grignana	18	Max WS	PRO_Tr200_Picco_Rev04	2.01	45.68	48.97		48.97	0.000000	0.01	253.75	167.02	0.00
Grignana	18	Max WS	PRO_Tr30_Picco_Rev04	1.87	45.68	48.48		48.48	0.000000	0.02	173.93	156.97	0.00
Grignana	17	Max WS	PRO_Tr200_Picco_Rev04	2.01	45.51	48.97		48.97	0.000000	0.01	242.68	153.97	0.00
Grignana	17	Max WS	PRO_Tr30_Picco_Rev04	1.87	45.51	48.48		48.48	0.000000	0.02	168.71	145.22	0.00
Grignana	16	Max WS	PRO_Tr200_Picco_Rev04	2.02	45.38	48.97		48.97	0.000000	0.01	294.83	157.56	0.00
Grignana	16	Max WS	PRO_Tr30_Picco_Rev04	1.87	45.38	48.48		48.48	0.000000	0.01	218.94	149.84	0.00
Grignana	15.8	Max WS	PRO_Tr200_Picco_Rev04	2.01	45.38	48.97	45.88	48.97	0.000000	0.01	294.83	157.56	0.00
Grignana	15.8	Max WS	PRO_Tr30_Picco_Rev04	1.87	45.38	48.48	45.86	48.48	0.000000	0.01	218.94	149.84	0.00





HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	5.8			Lat Struct									
Grignana	5	Max WS	PRO_Tr200_Picco_Rev04	1.06	44.10	45.67		45.67	0.000034	0.15	6.86	6.72	0.05
Grignana	5	Max WS	PRO_Tr30_Picco_Rev04	1.07	44.10	45.57		45.57	0.000046	0.17	6.15	6.40	0.06
Grignana	4.9			Lat Struct									
Grignana	4	Max WS	PRO_Tr200_Picco_Rev04	-0.71	43.90	45.67		45.67	0.000009	-0.09	8.27	7.32	0.03
Grignana	4	Max WS	PRO_Tr30_Picco_Rev04	-0.14	43.90	45.57		45.57	0.000000	-0.02	7.51	7.00	0.01
Grignana	3	Max WS	PRO_Tr200_Picco_Rev04	0.00	43.30	45.67		45.67	0.000000	0.00	15.14	8.75	0.00
Grignana	3	Max WS	PRO_Tr30_Picco_Rev04	0.00	43.30	45.57		45.57	0.000000	0.00	14.21	8.54	0.00
Grignana	2.5			Culvert									
Grignana	2	Max WS	PRO_Tr200_Picco_Rev04	0.00	43.25	45.67		45.67	0.000000	0.00	16.28	9.43	0.00
Grignana	2	Max WS	PRO_Tr30_Picco_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.28	9.19	0.00
Grignana	1.8000*	Max WS	PRO_Tr200_Picco_Rev04	0.00	43.25	45.67		45.67	0.000000	0.00	16.29	9.43	0.00
Grignana	1.8000*	Max WS	PRO_Tr30_Picco_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.30	9.19	0.00
Grignana	1.6000*	Max WS	PRO_Tr200_Picco_Rev04	0.00	43.25	45.67		45.67	0.000000	0.00	16.31	9.43	0.00
Grignana	1.6000*	Max WS	PRO_Tr30_Picco_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.31	9.19	0.00
Grignana	1.4000*	Max WS	PRO_Tr200_Picco_Rev04	0.00	43.24	45.67		45.67	0.000000	0.00	16.32	9.43	0.00
Grignana	1.4000*	Max WS	PRO_Tr30_Picco_Rev04	0.00	43.24	45.57		45.57	0.000000	0.00	15.33	9.19	0.00
Grignana	1.2000*	Max WS	PRO_Tr200_Picco_Rev04	0.00	43.24	45.67		45.67	0.000000	0.00	16.34	9.43	0.00
Grignana	1.2000*	Max WS	PRO_Tr30_Picco_Rev04	0.00	43.24	45.57		45.57	0.000000	0.00	15.34	9.19	0.00
Grignana	1	Max WS	PRO_Tr200_Picco_Rev04	0.00	43.24	45.67	43.25	45.67	0.000000	0.00	16.35	9.43	0.00
Grignana	1	Max WS	PRO_Tr30_Picco_Rev04	0.00	43.24	45.57	43.25	45.57	0.000000	0.00	15.36	9.20	0.00

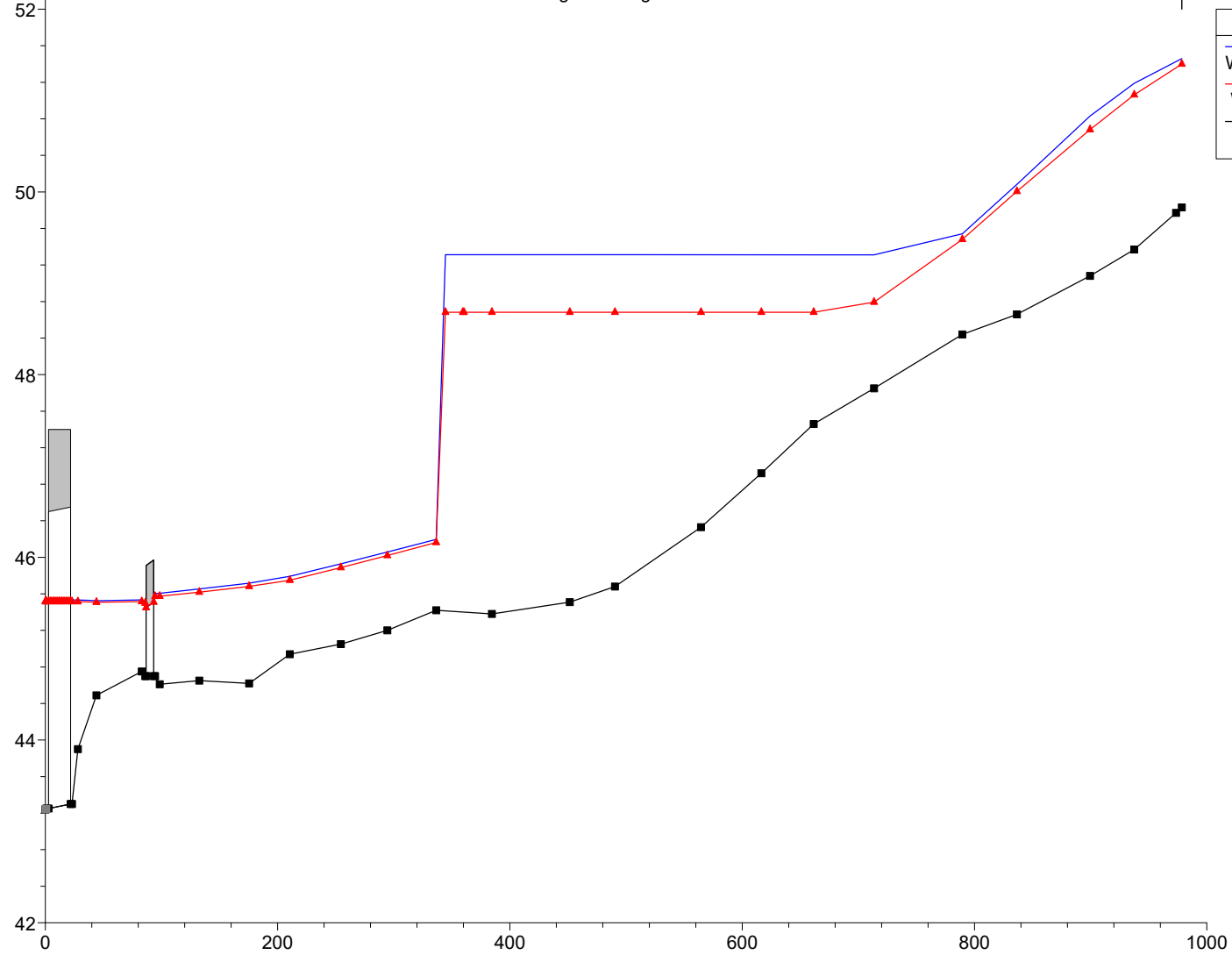
**Rio Grignana - Verifiche idrauliche moto vario stato di progetto – Soluzione 3**

**Tr=200 e Tr=30 anni – Tp 3 ore**

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

Grignana Grignana

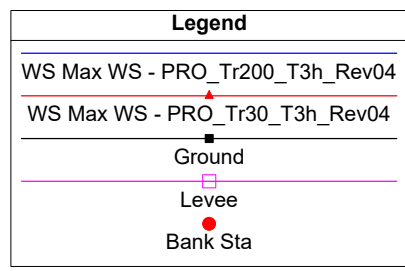
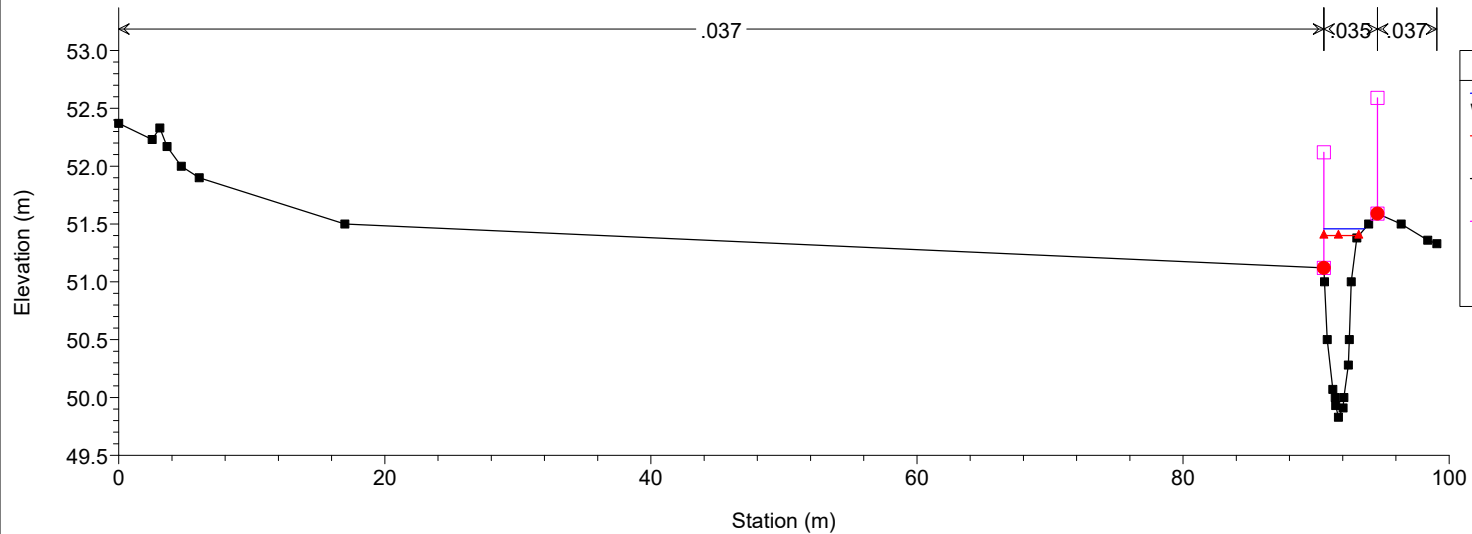
Elevation (m)



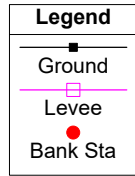
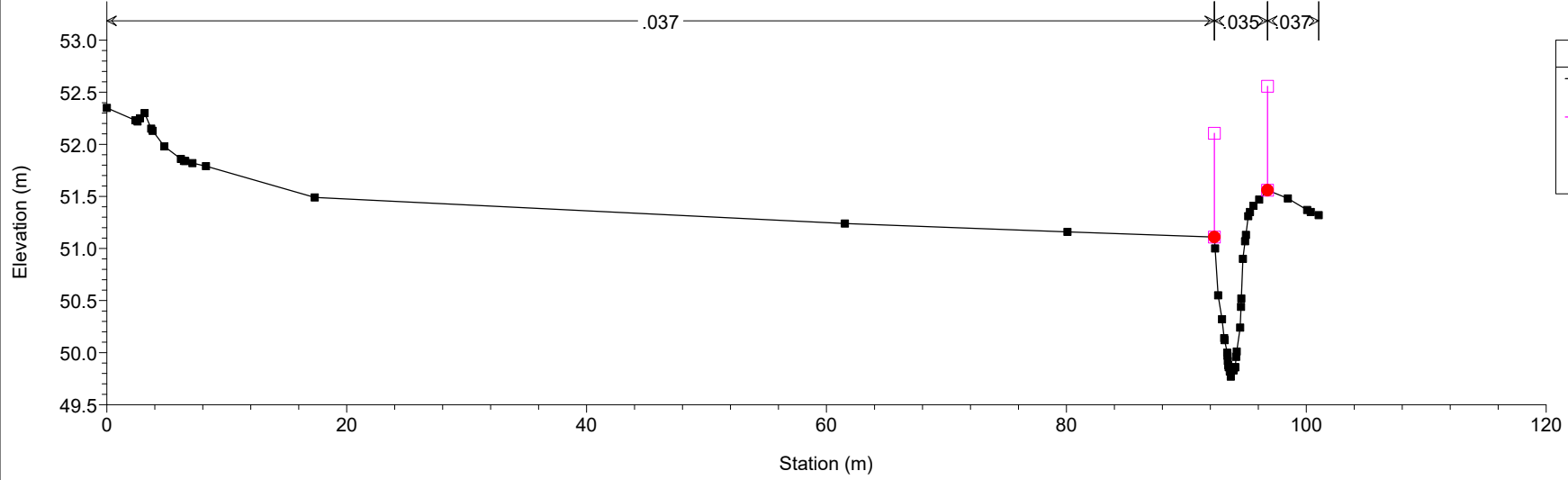
**Legend**

- WS Max WS - PRO\_Tr200\_T3h\_Rev04
- WS Max WS - PRO\_Tr30\_T3h\_Rev04
- Ground

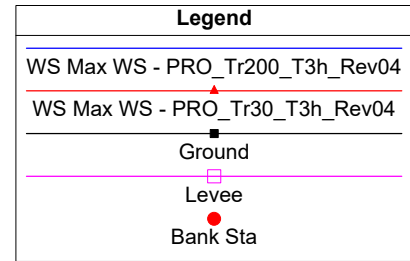
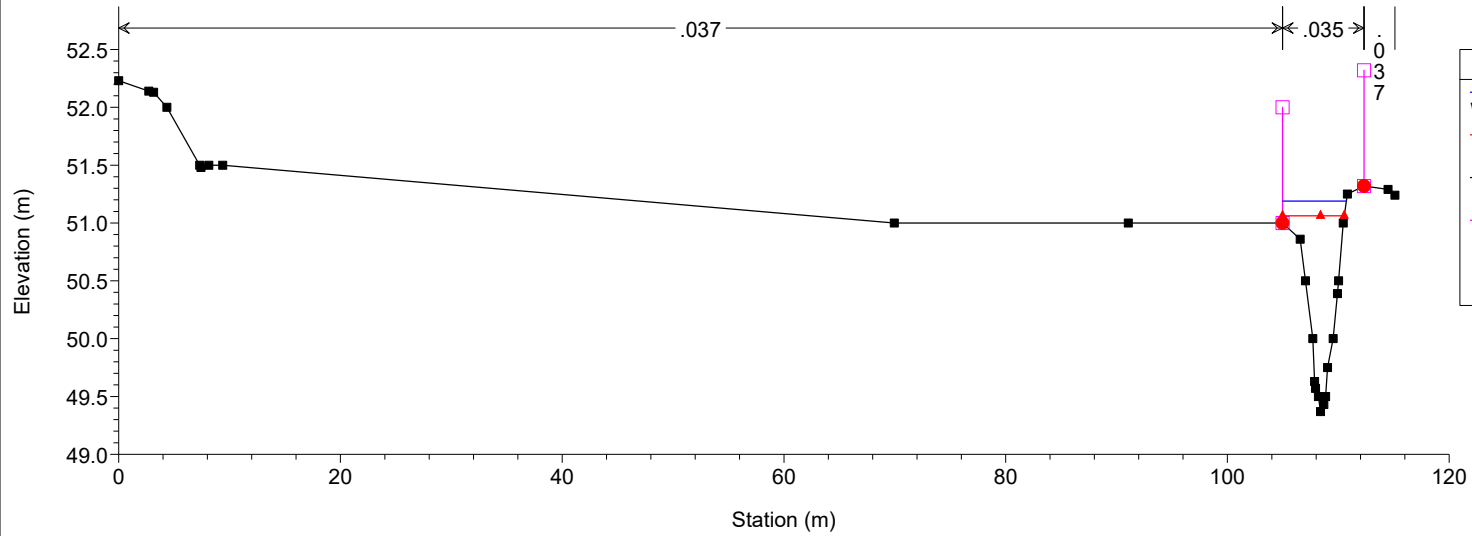
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 27



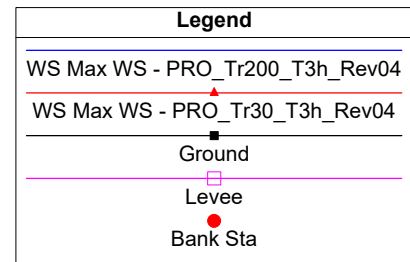
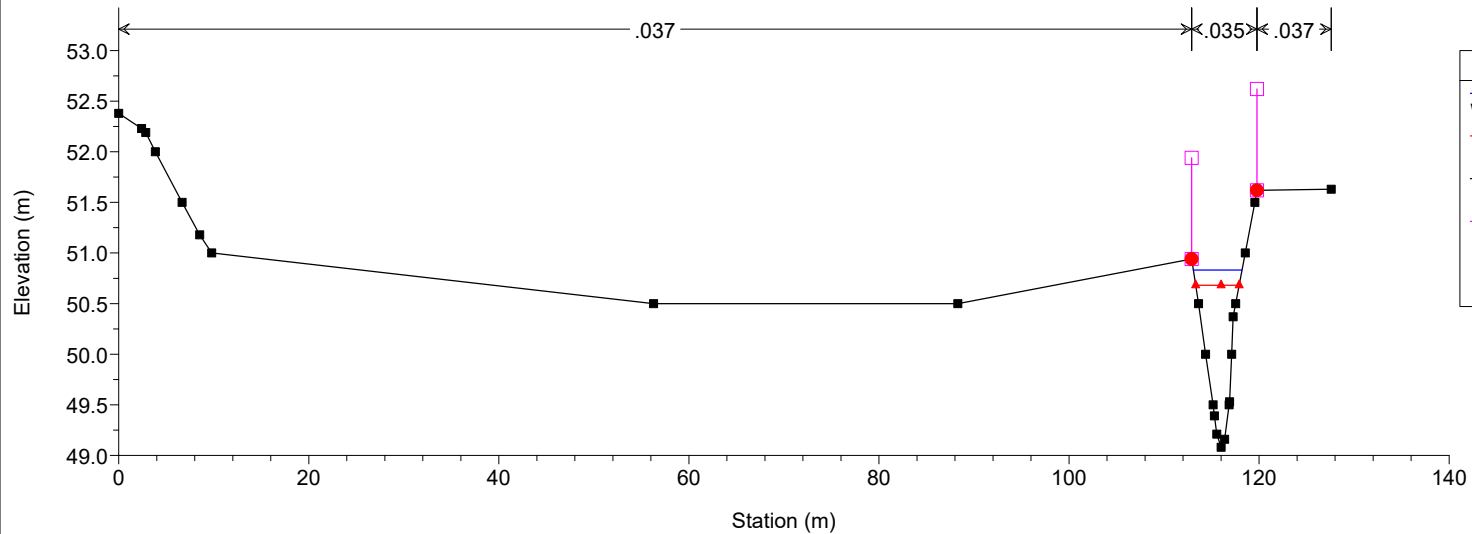
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 26.8 auxiliaria



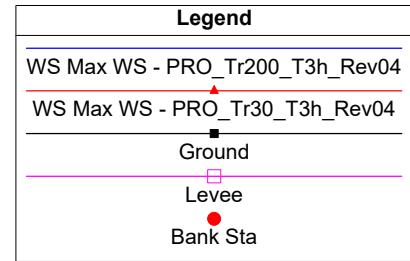
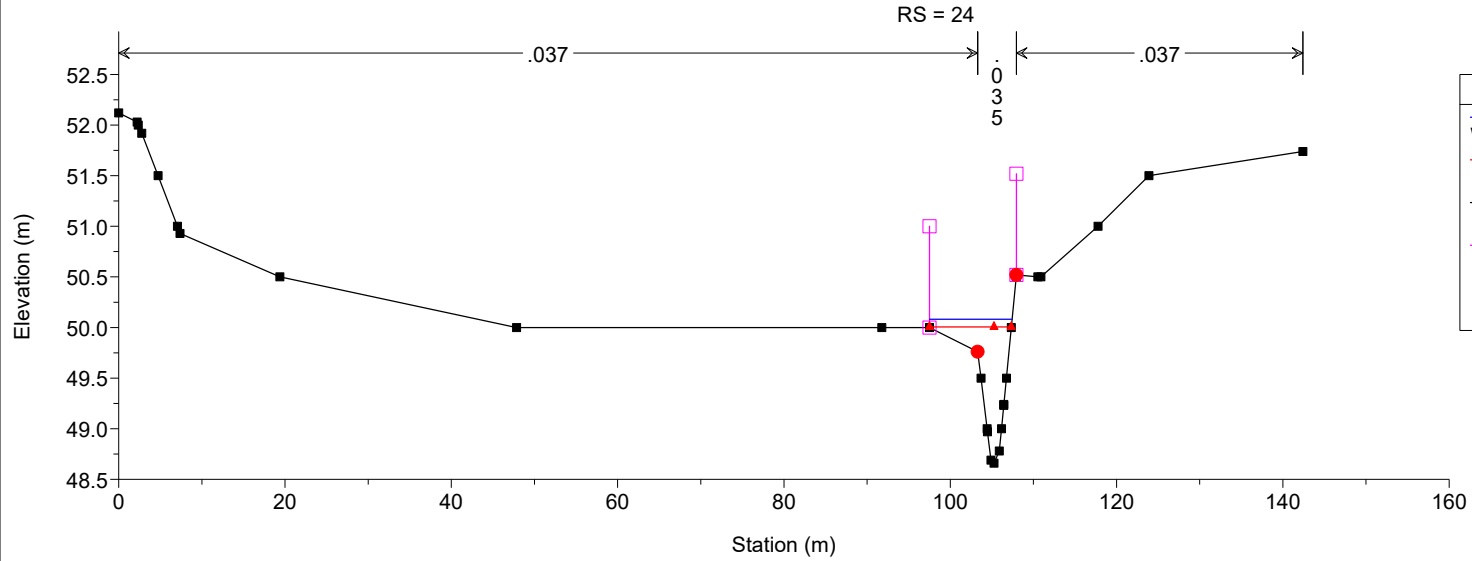
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 26



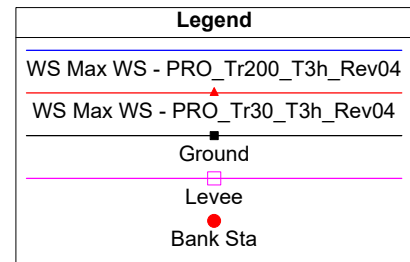
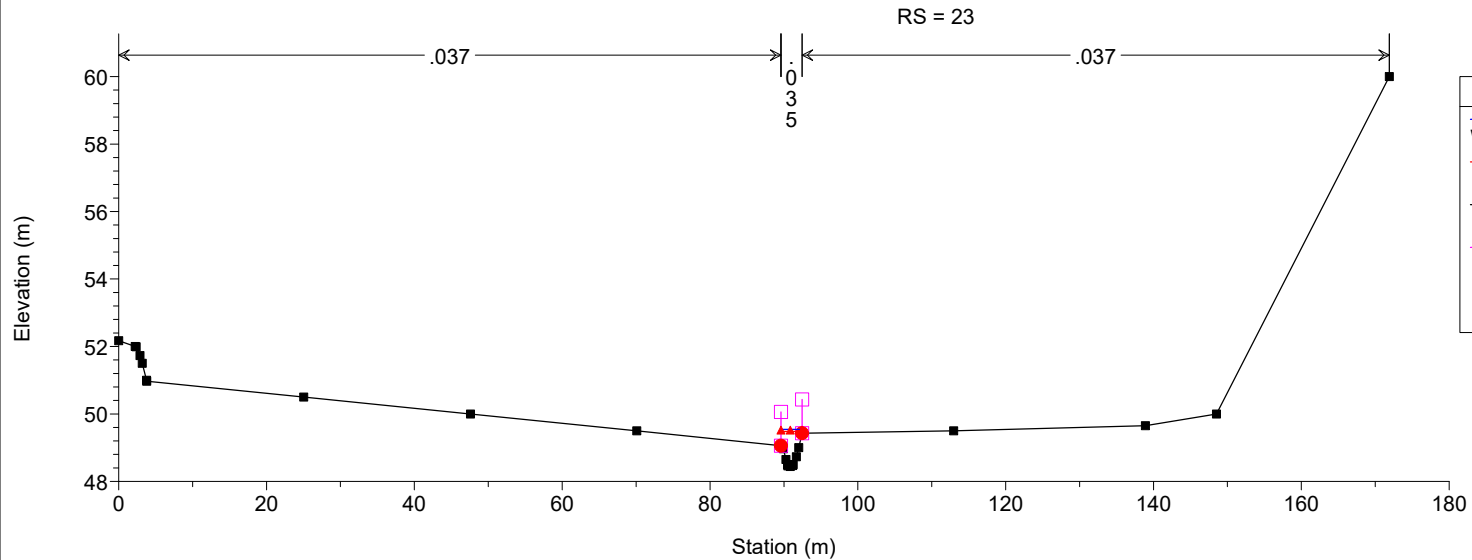
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 25



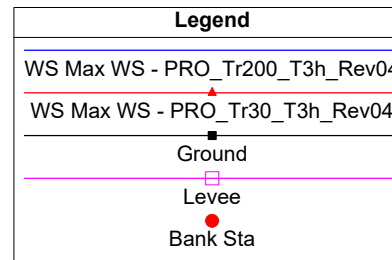
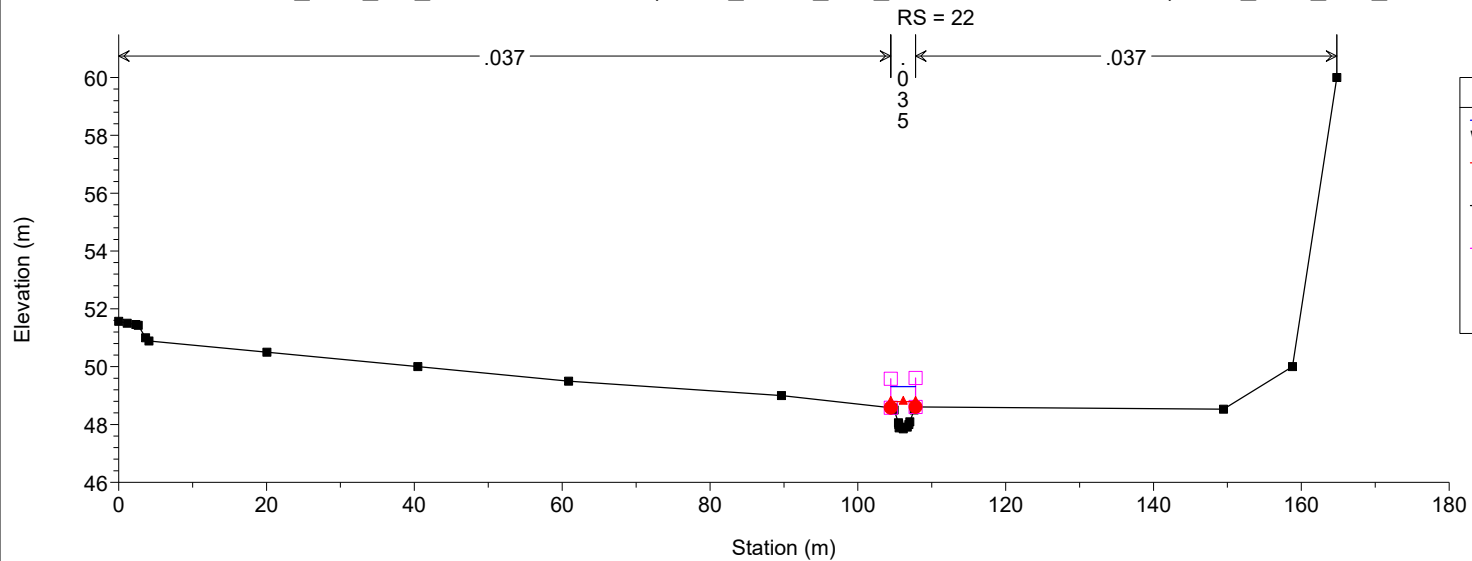
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021



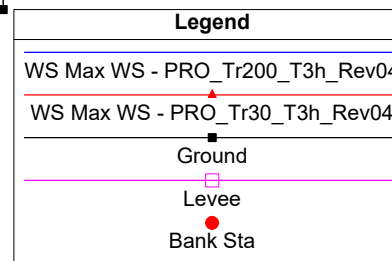
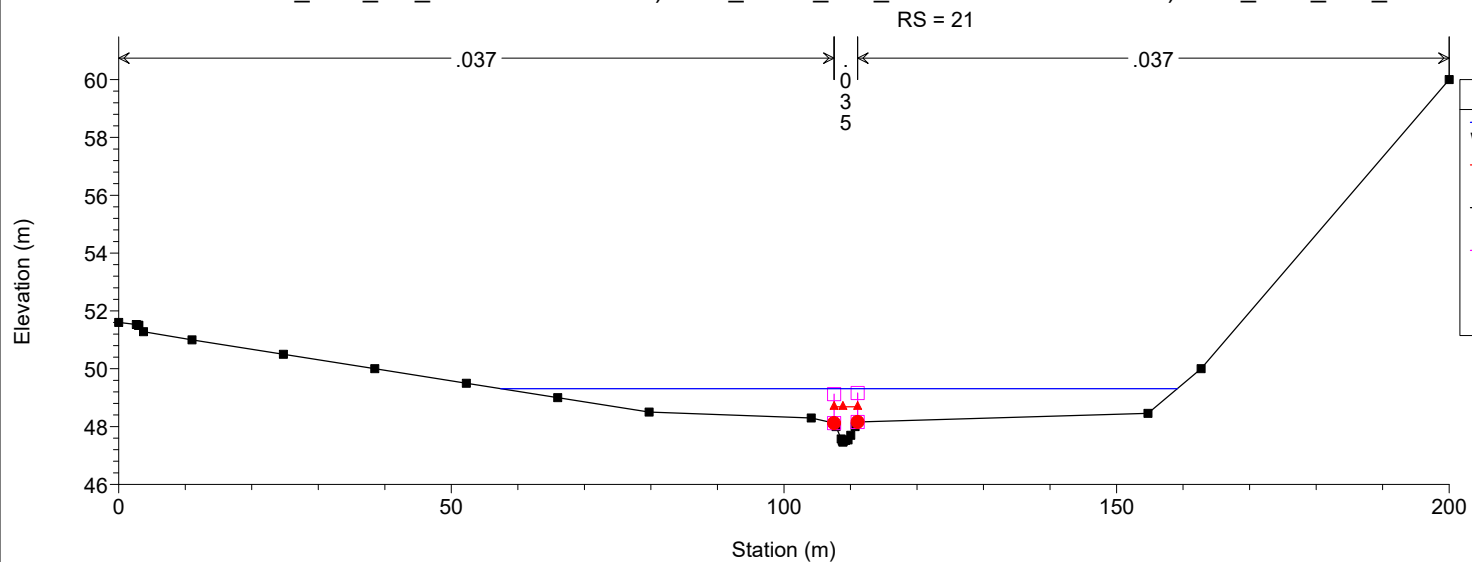
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021



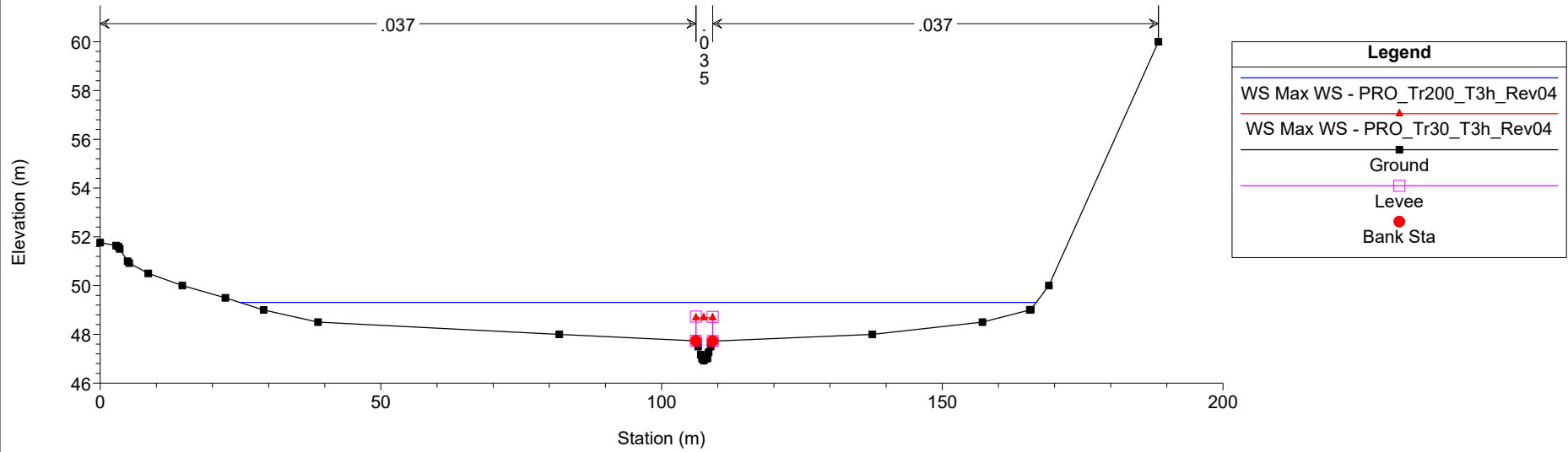
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021





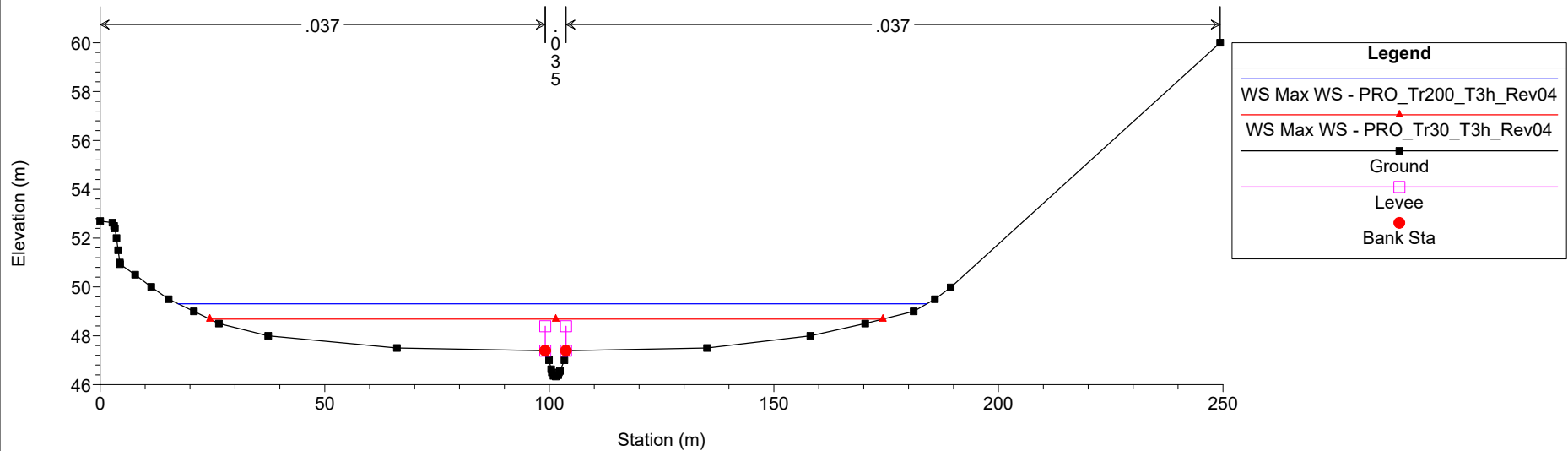
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 20



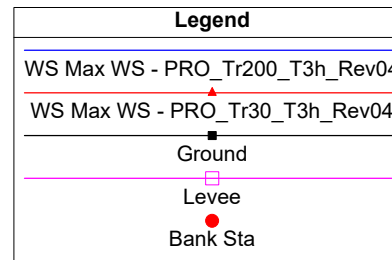
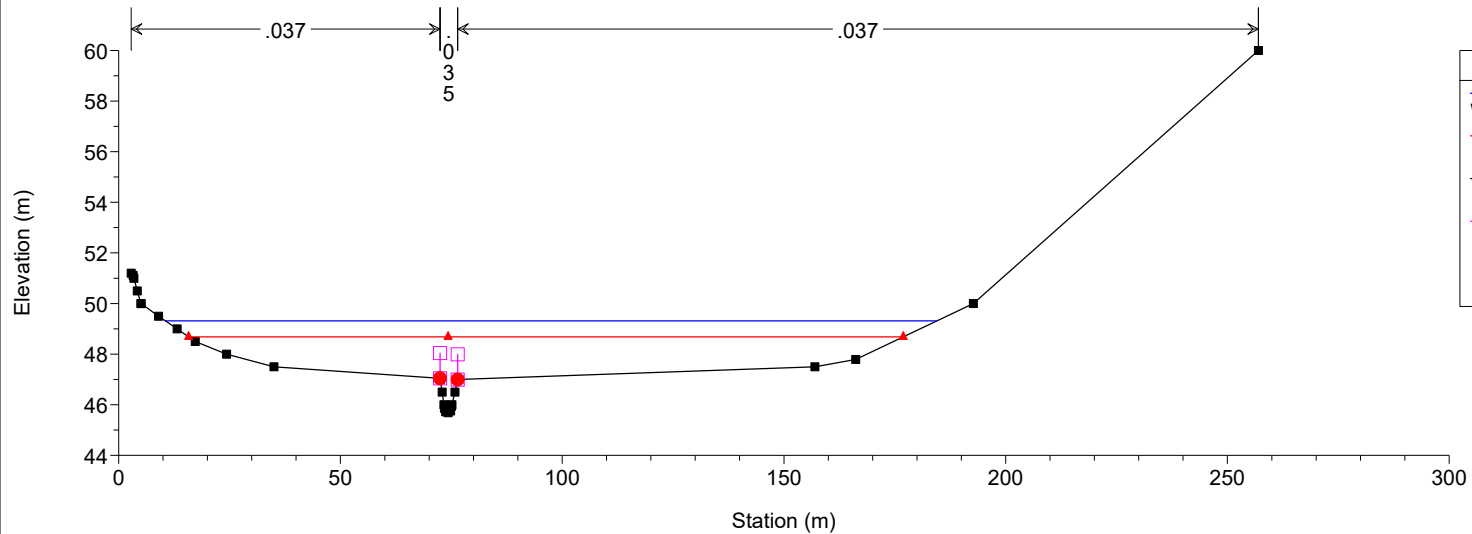
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 19



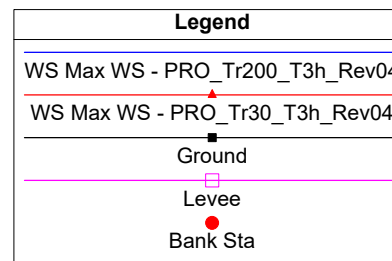
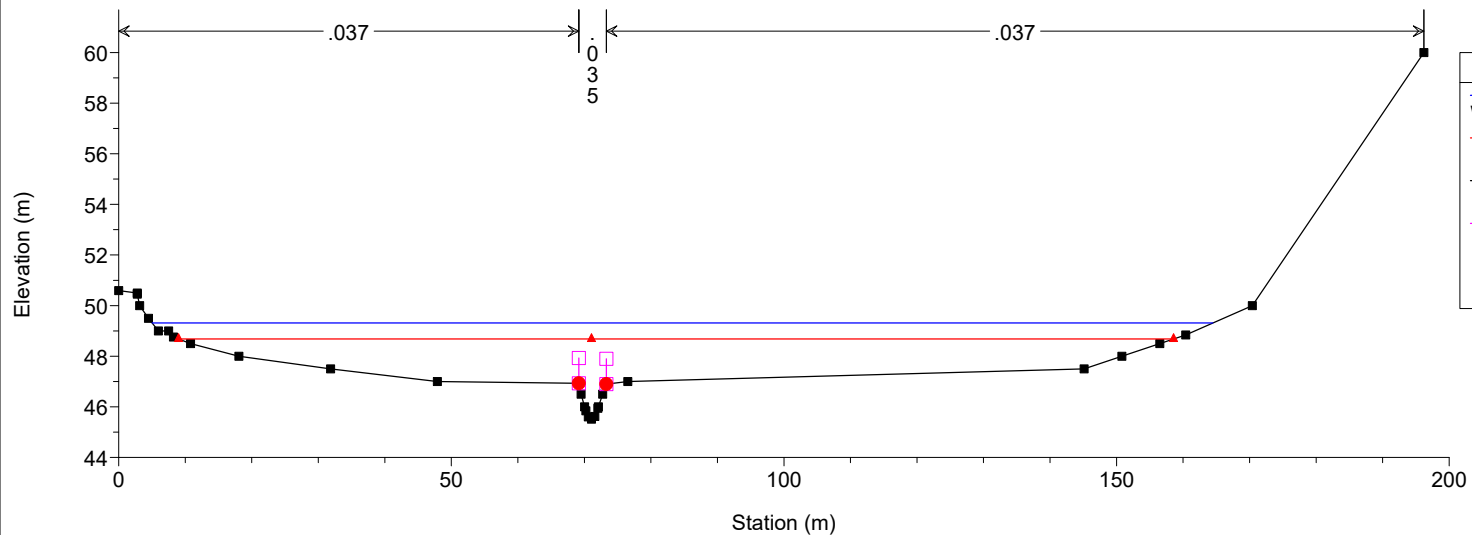
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 18



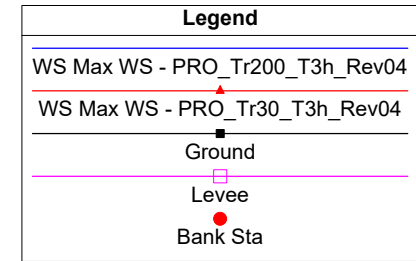
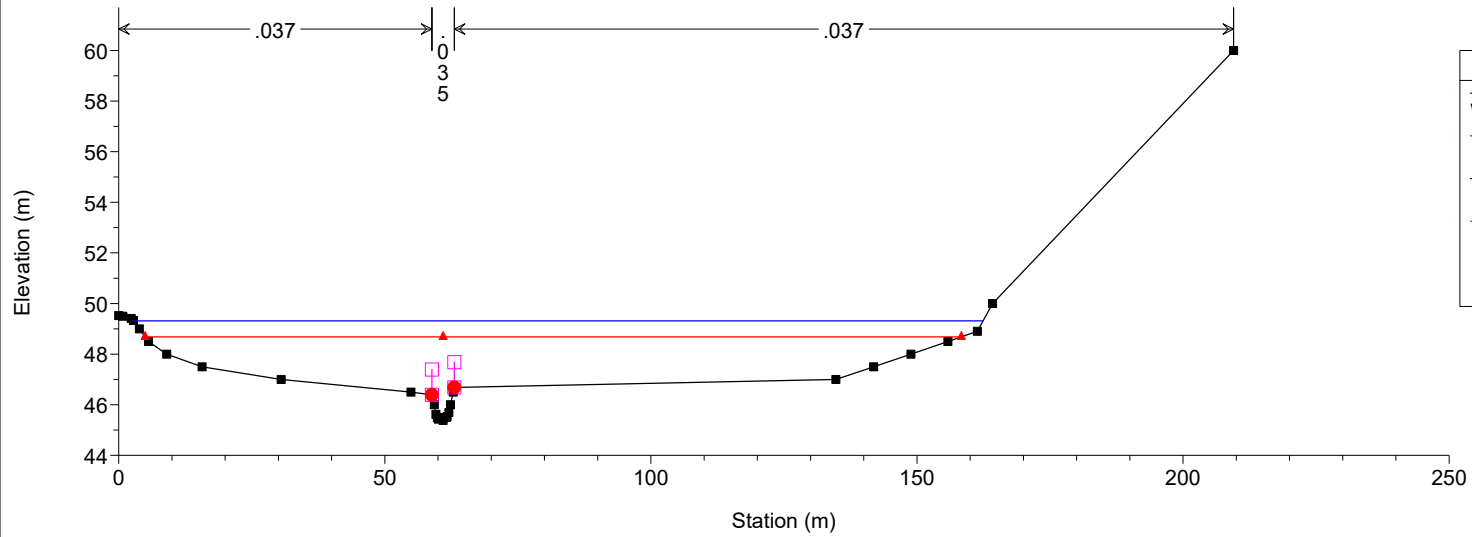
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 17



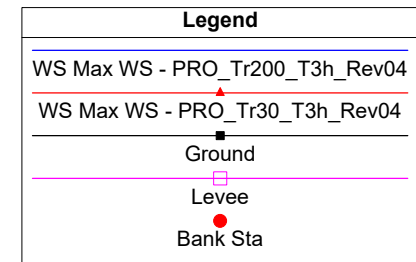
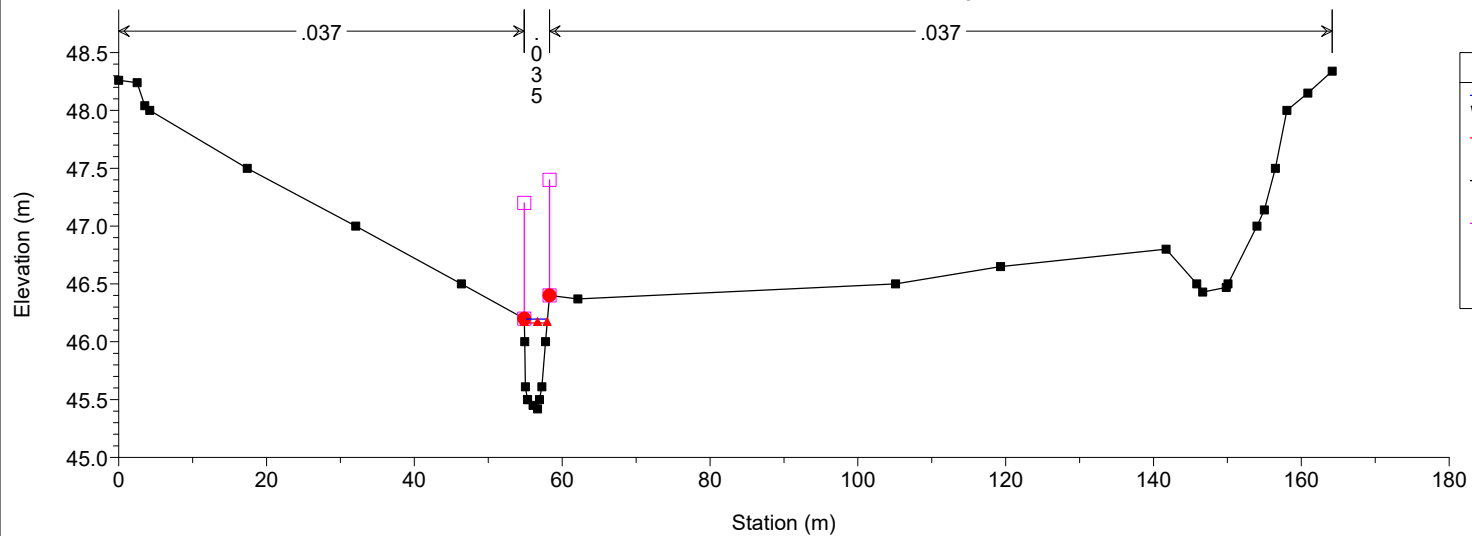
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 16



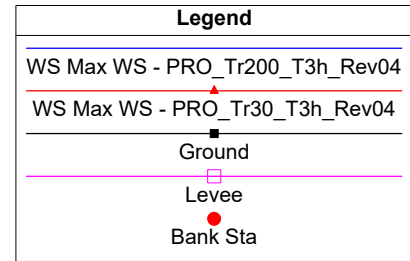
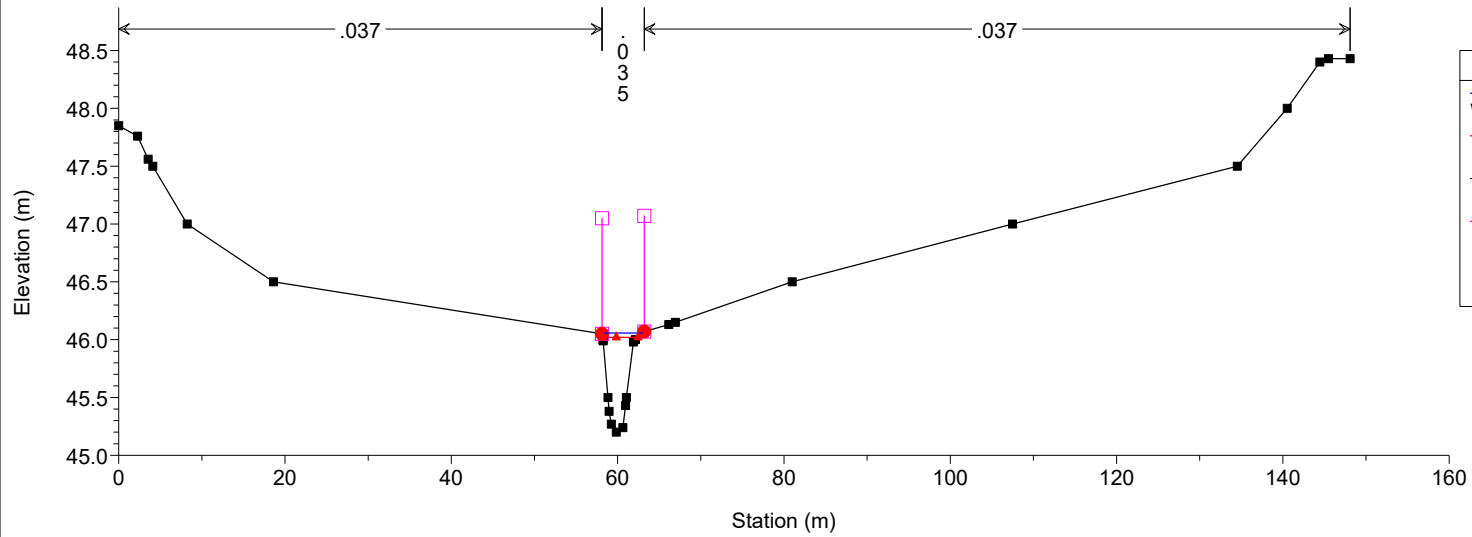
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 15



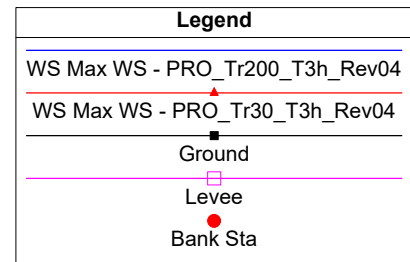
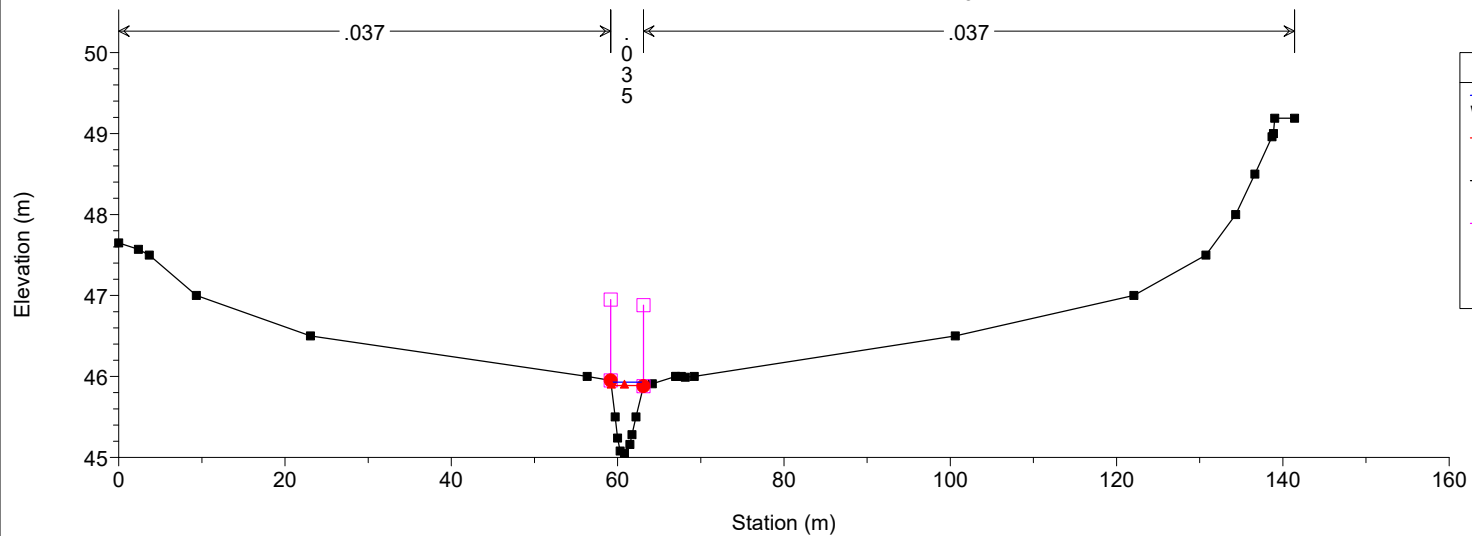
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 14



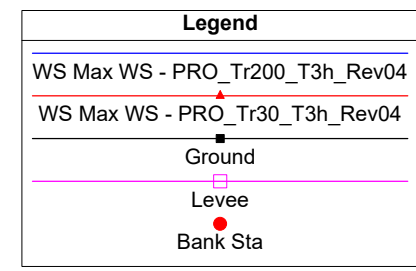
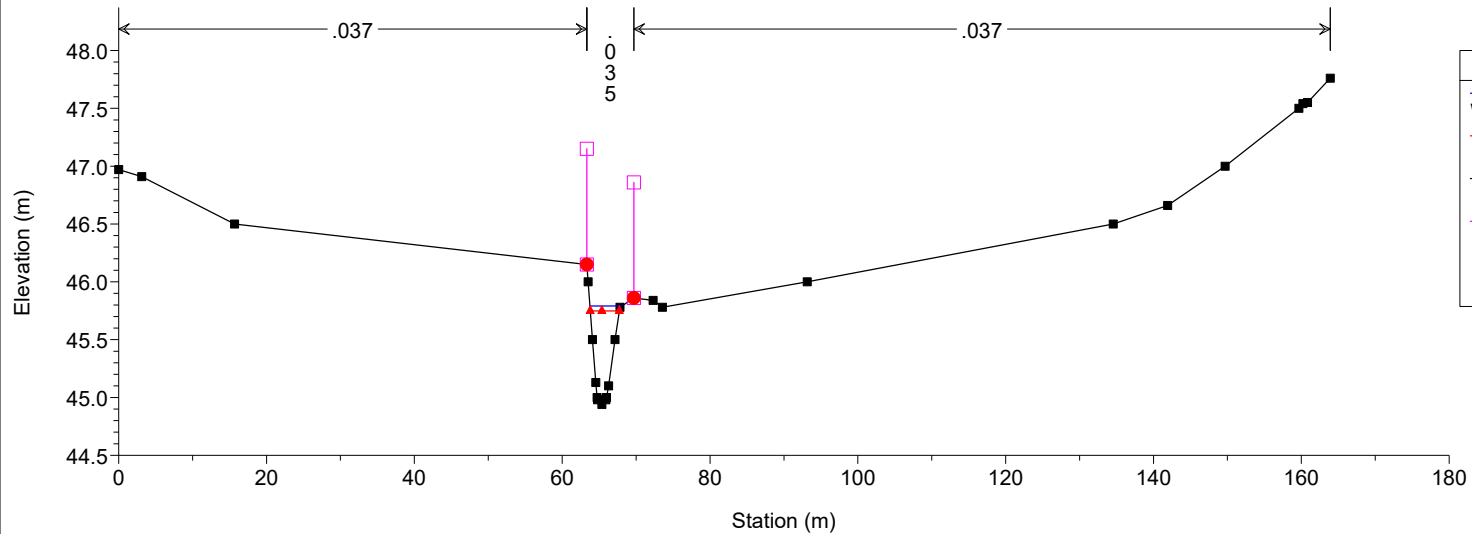
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 13



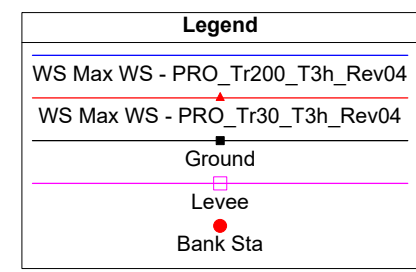
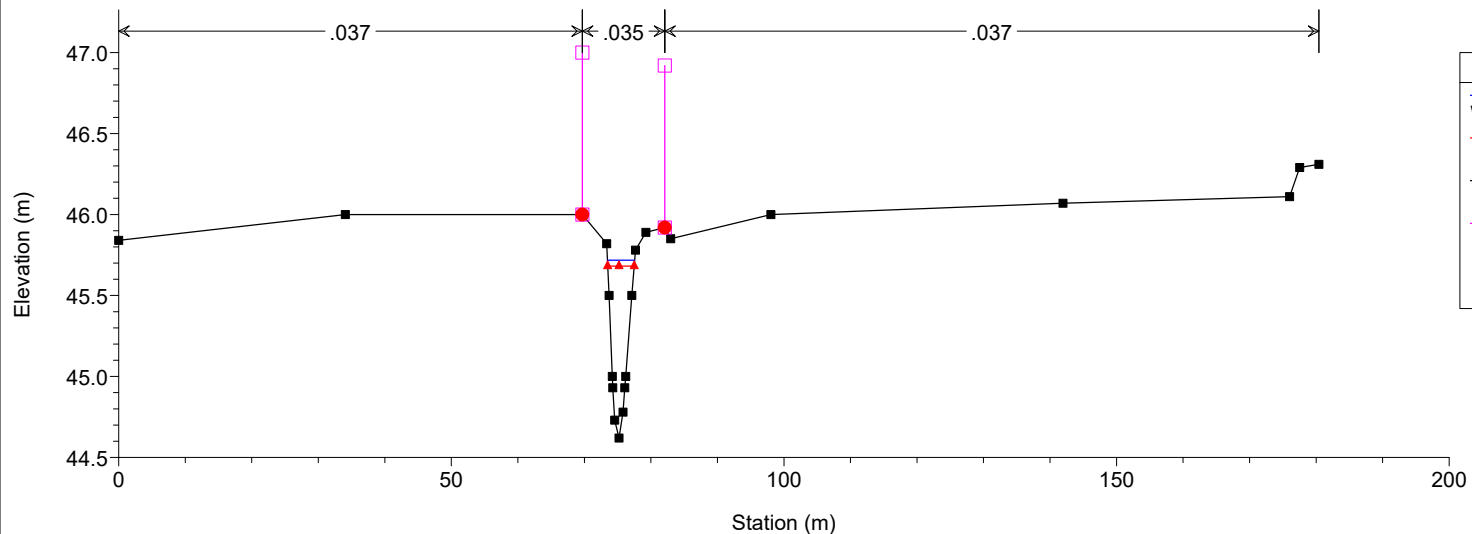
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 12



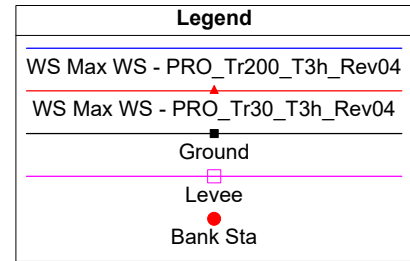
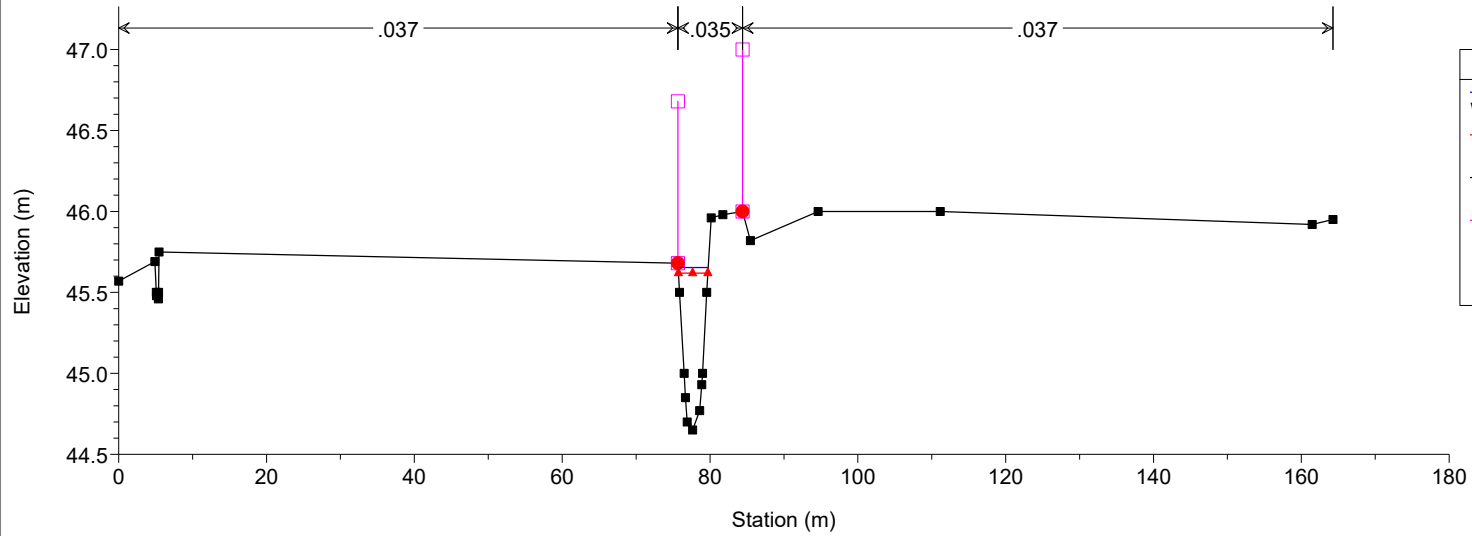
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 11



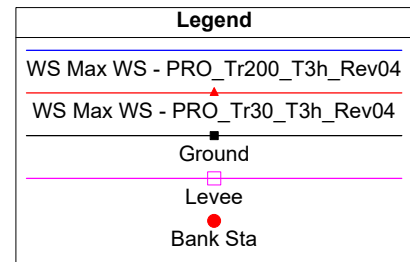
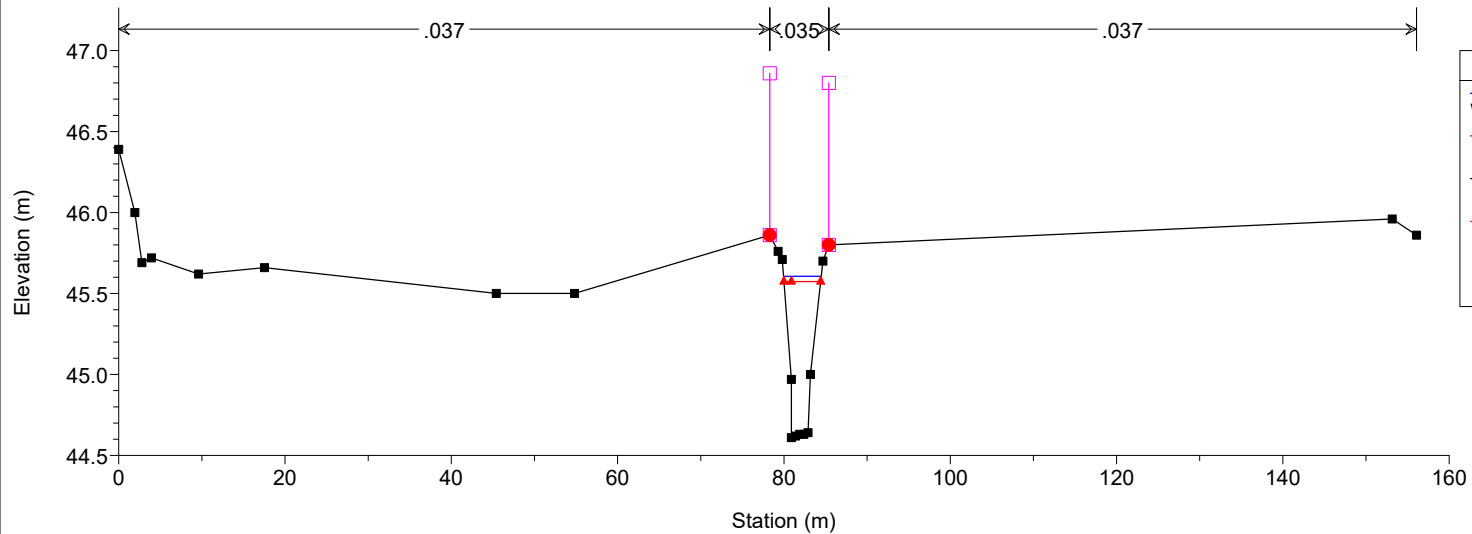
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 10

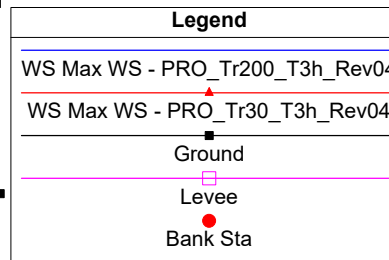
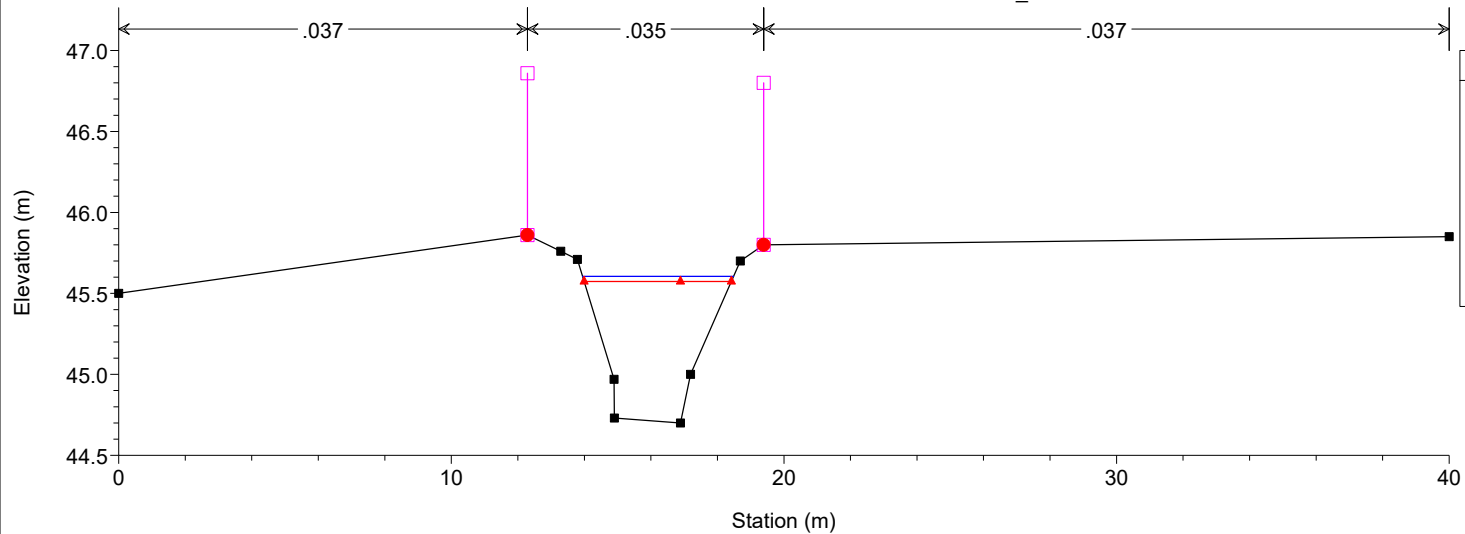


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

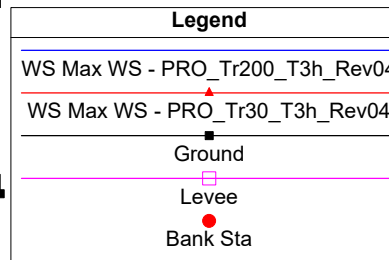
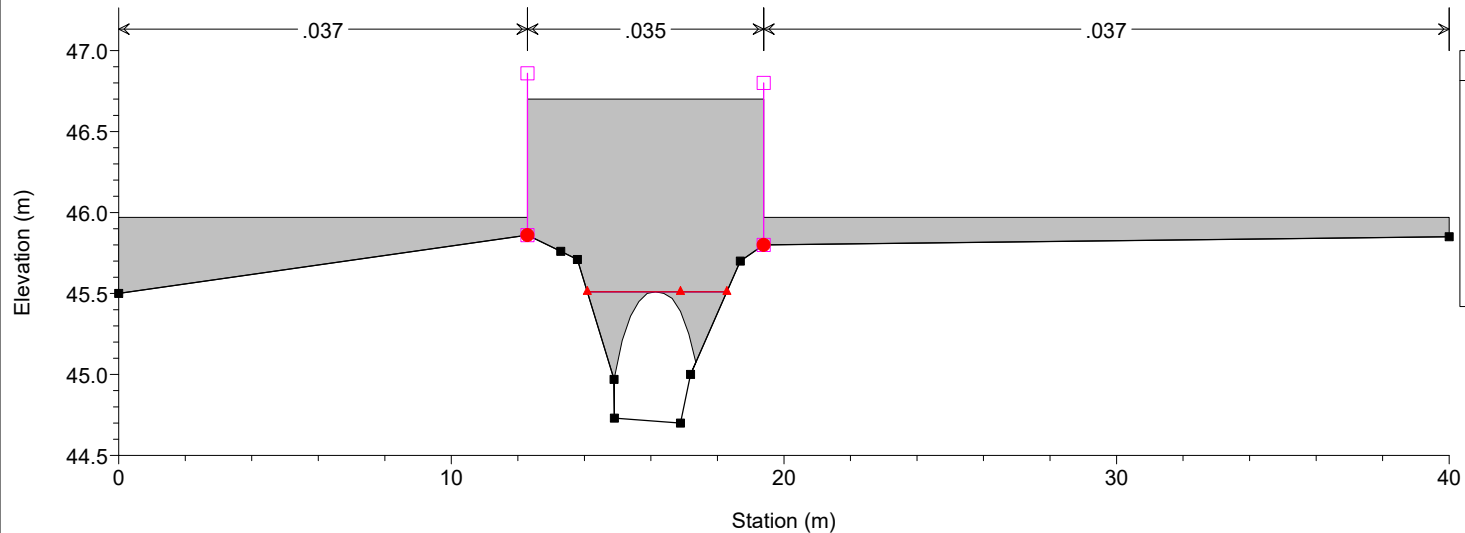
RS = 9



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
 RS = 8 PGR0004\_c

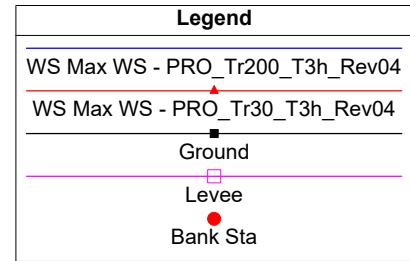
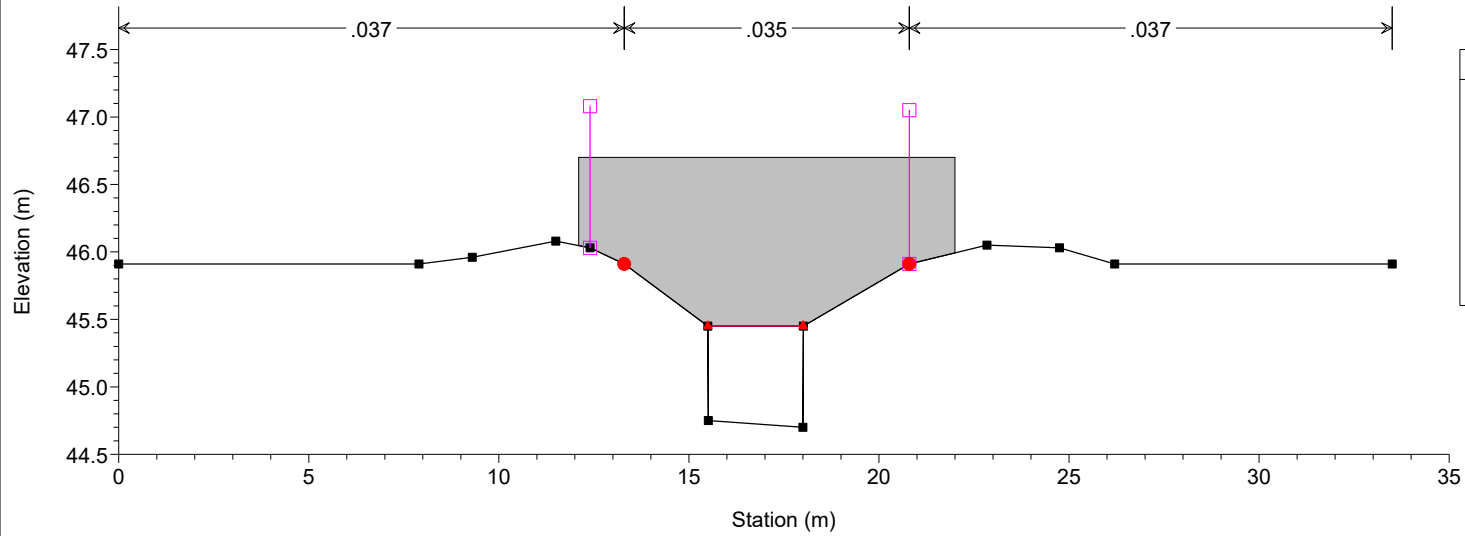


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
 RS = 7.5 BR Ponte Sanminiatese esistente



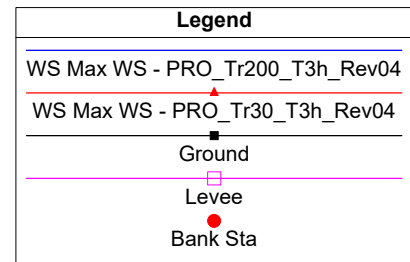
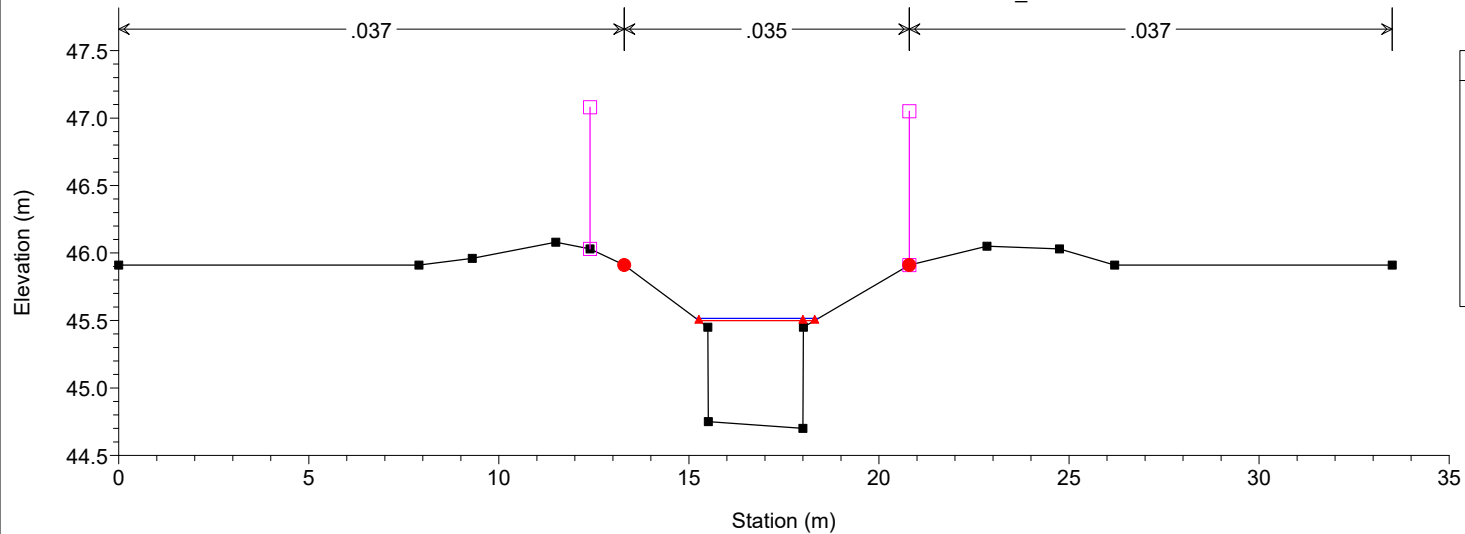
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 7.5 BR Ponte Sanminiatese esistente



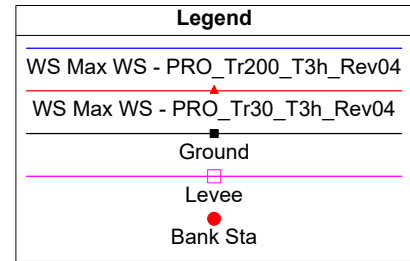
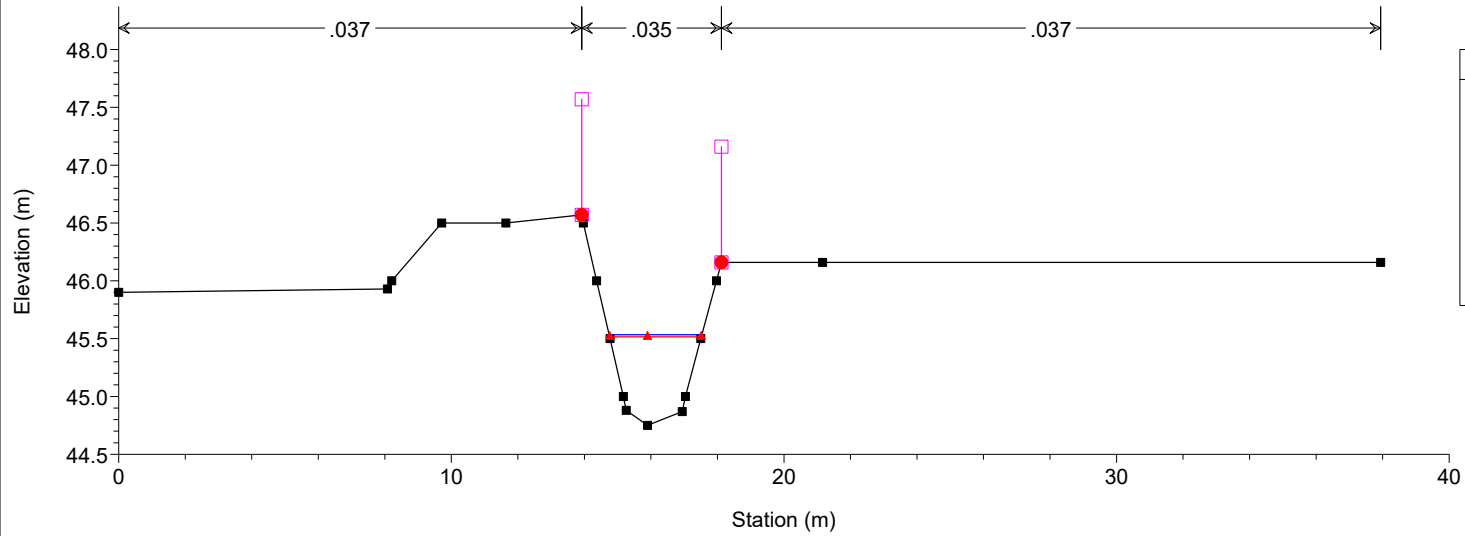
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 7 PGR0004\_d

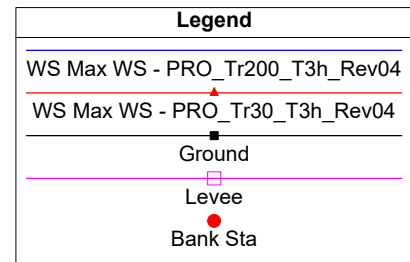
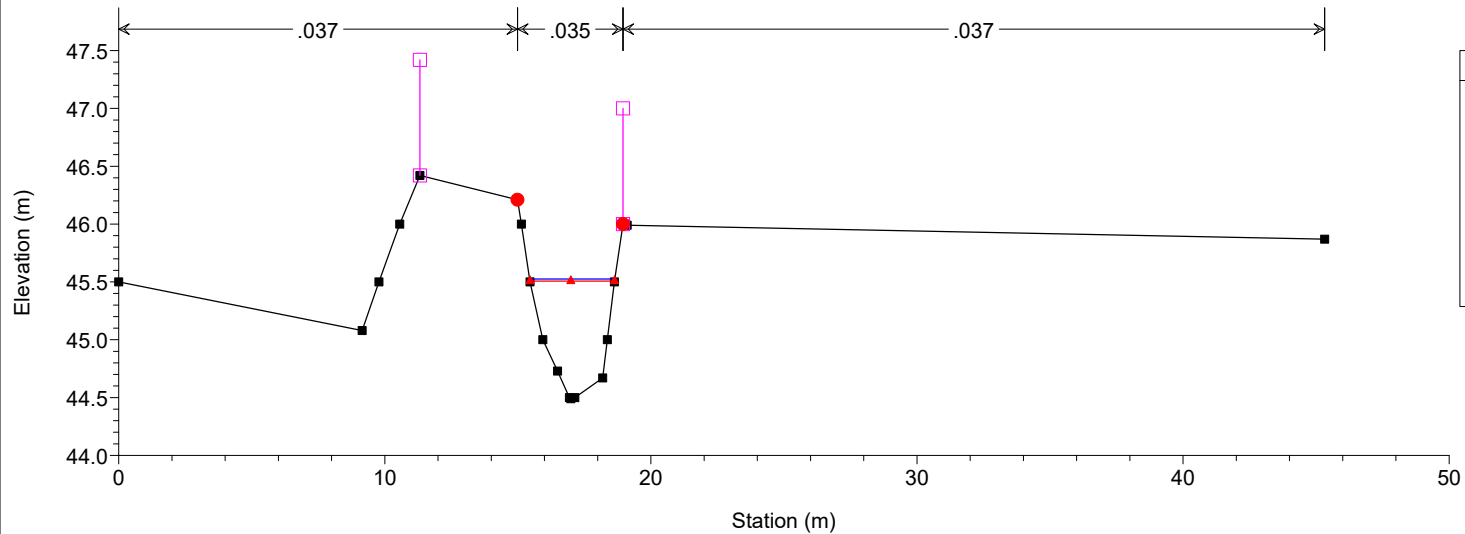




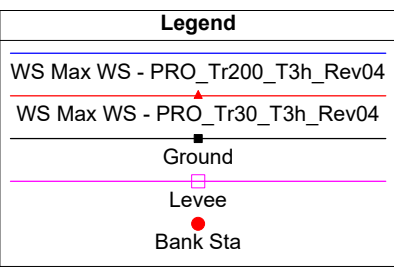
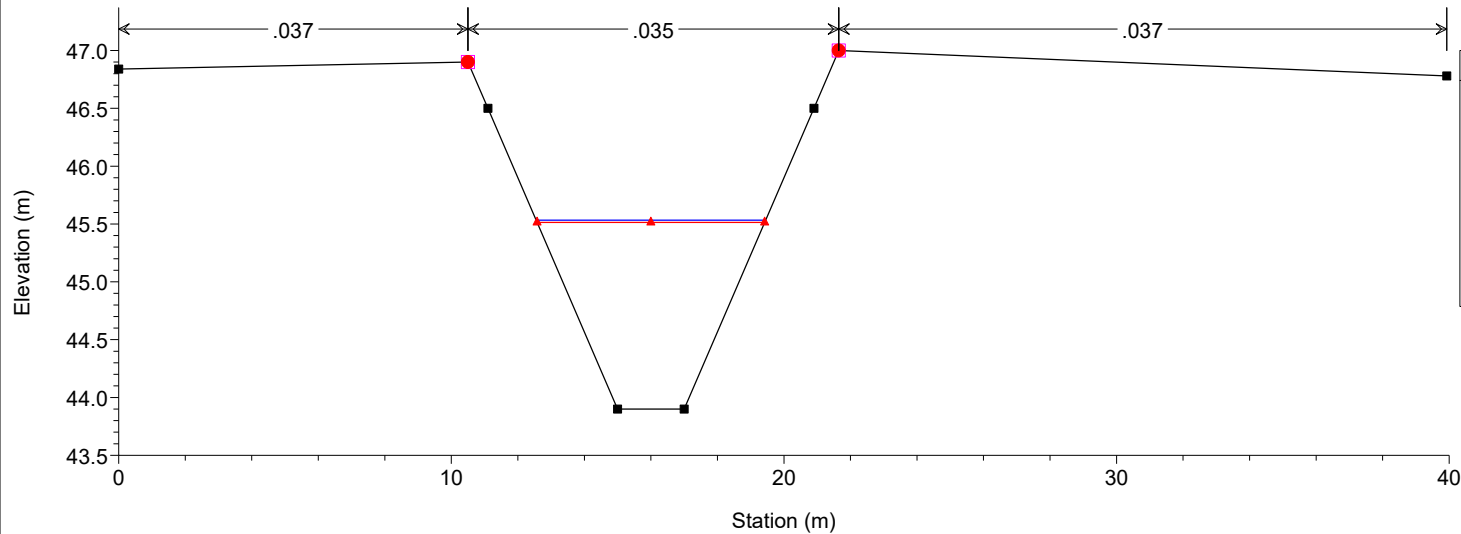
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 6



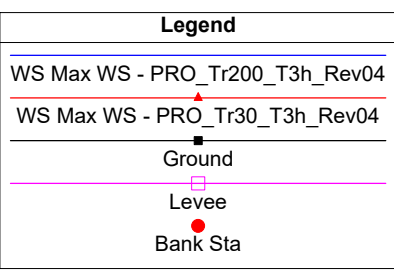
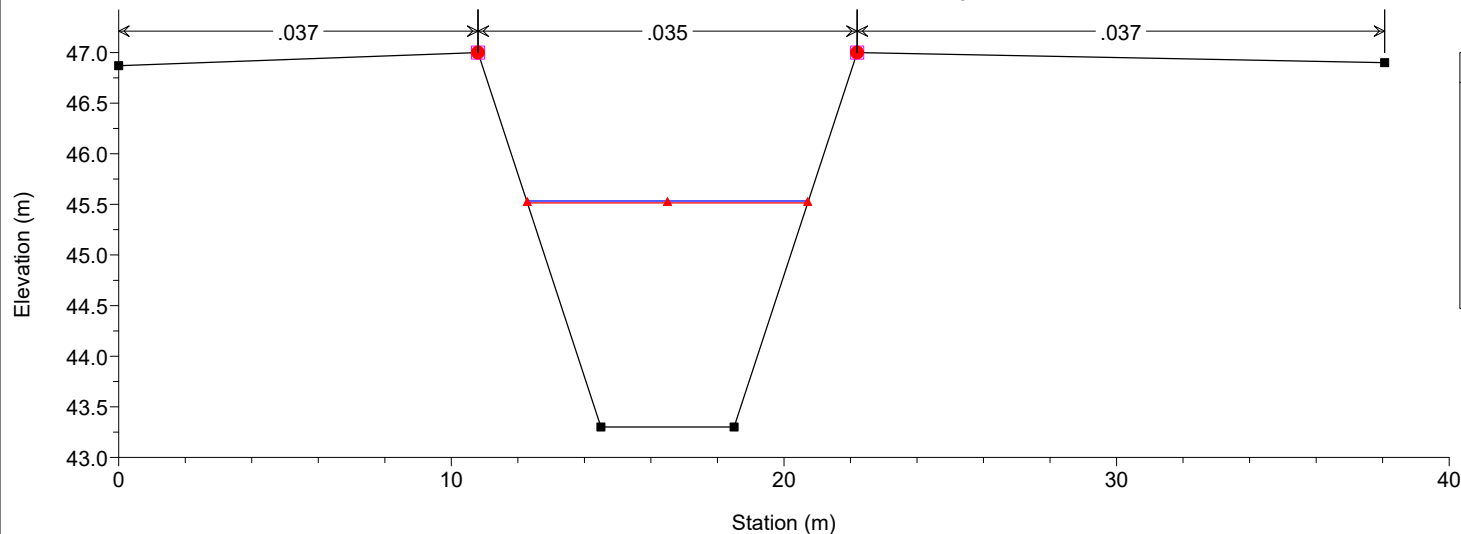
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 5



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 4

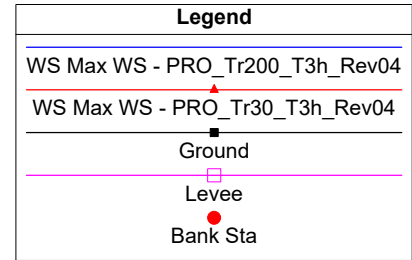
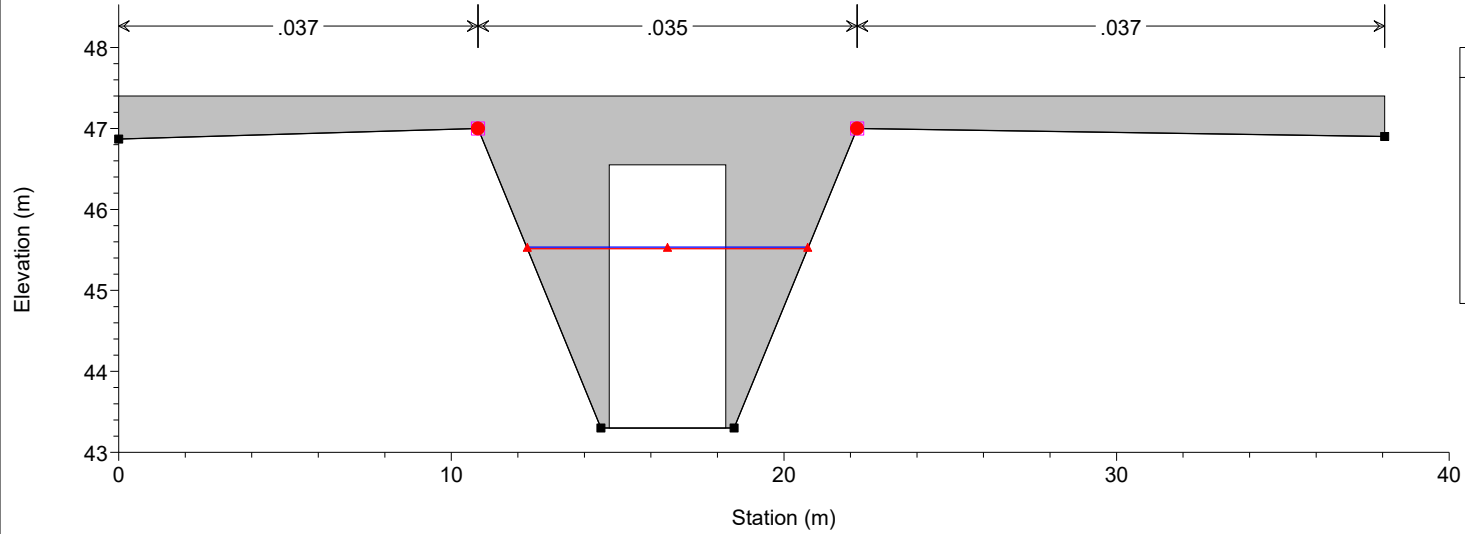


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
RS = 3



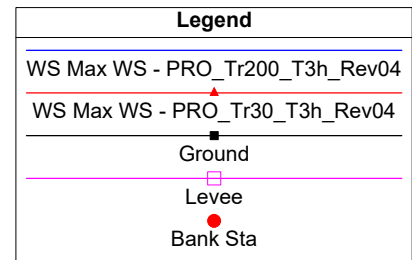
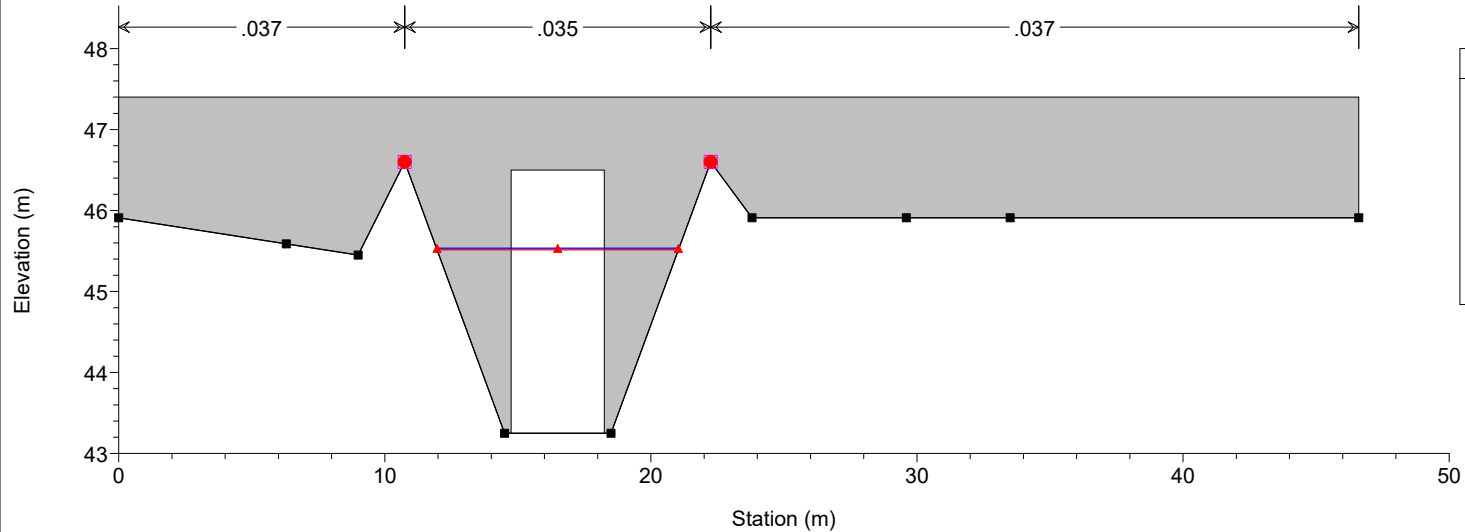
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

RS = 2.5 Culv Ponte sr429

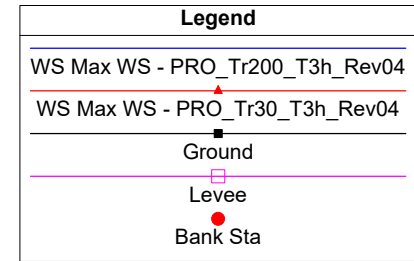
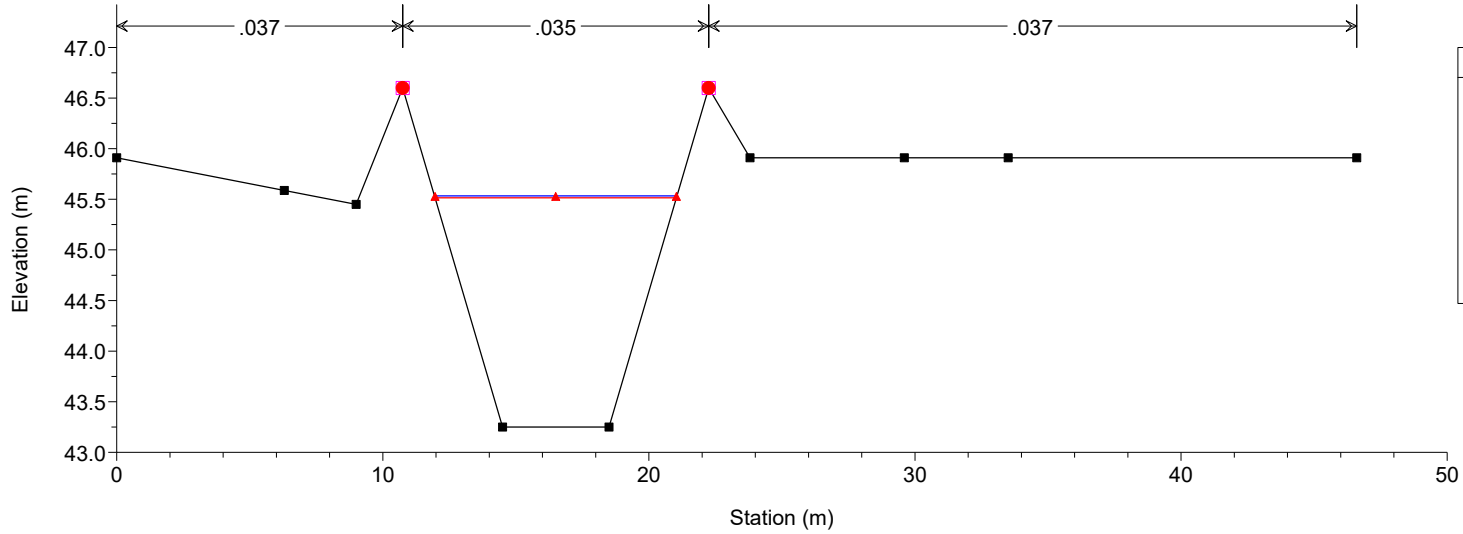


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021

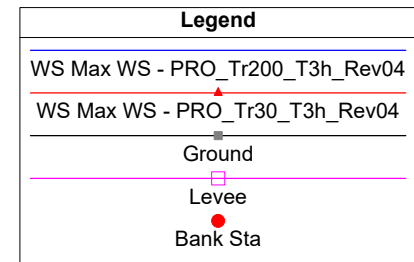
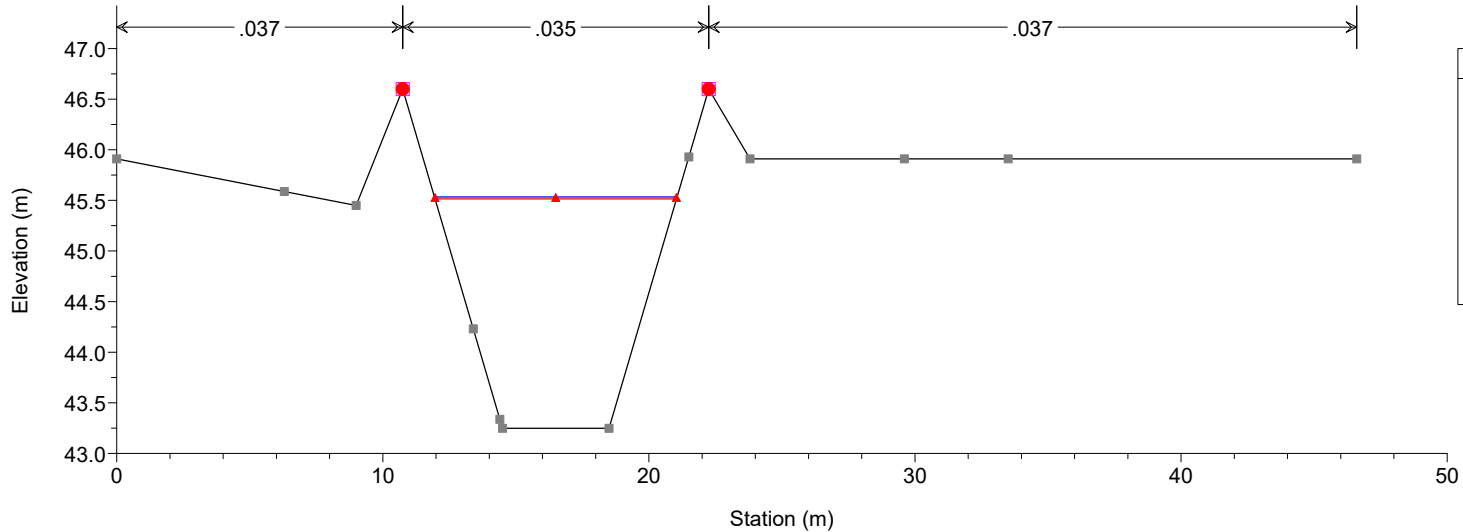
RS = 2.5 Culv Ponte sr429

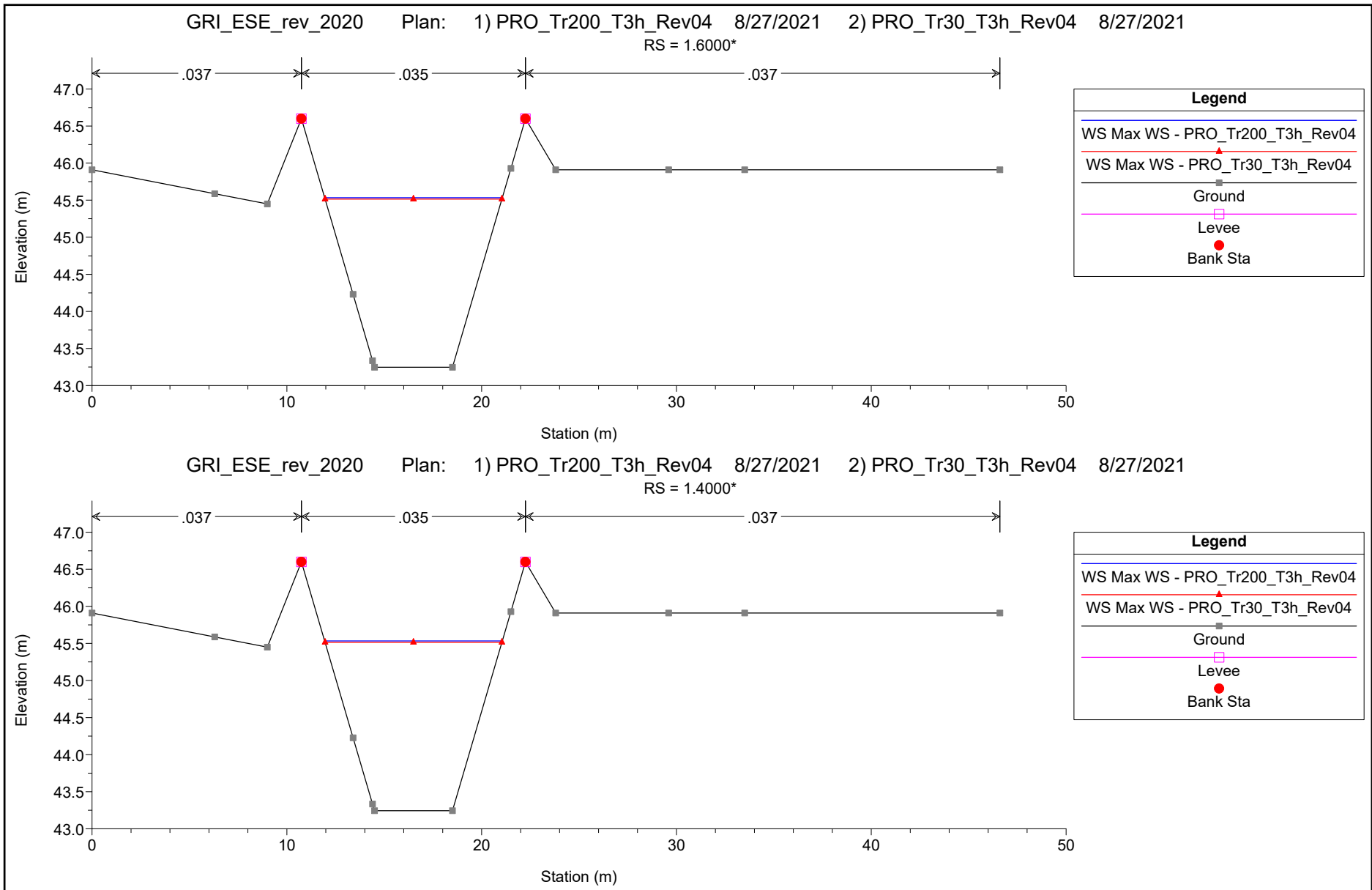


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
 RS = 2 PGR0007\_c

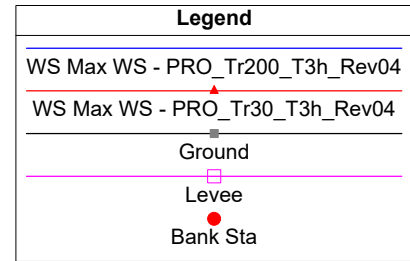
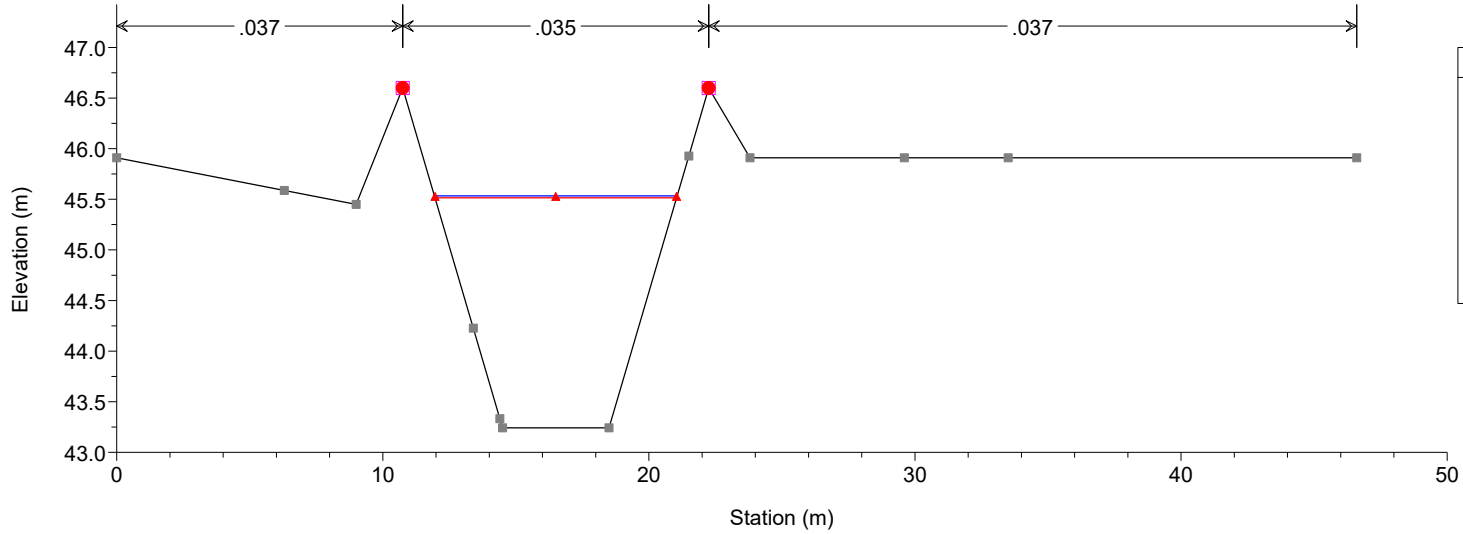


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
 RS = 1.8000\*

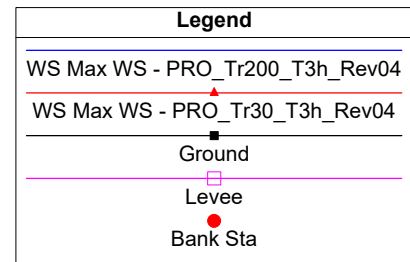
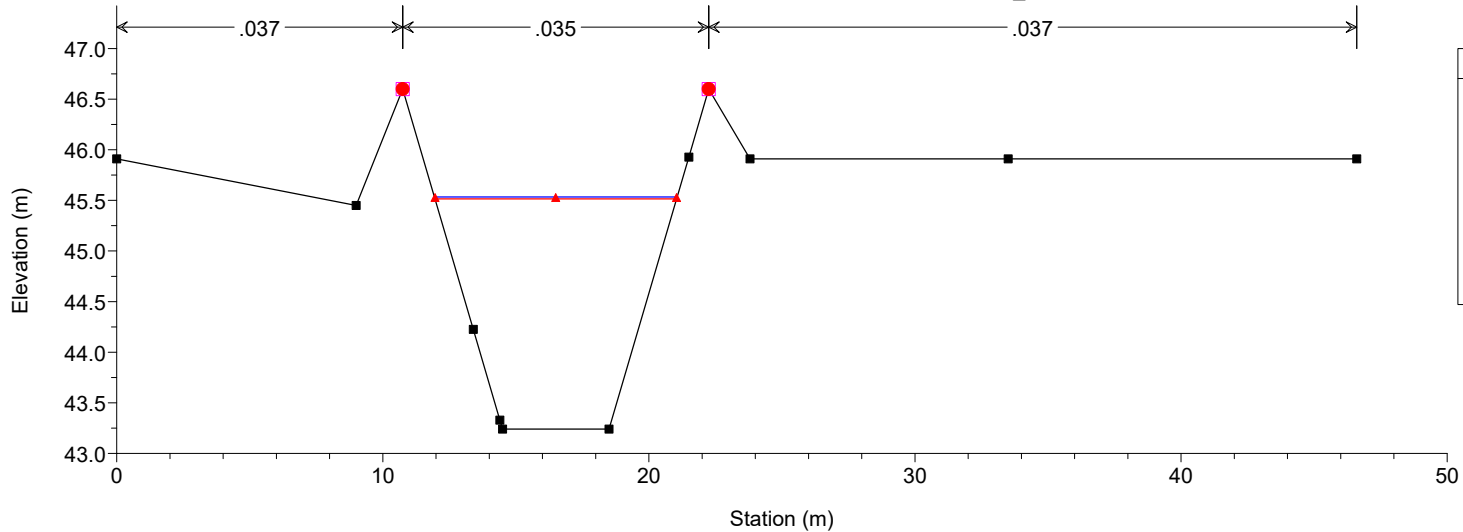




GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
 RS = 1.2000\*



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T3h\_Rev04 8/27/2021 2) PRO\_Tr30\_T3h\_Rev04 8/27/2021  
 RS = 1 PGR0007\_d





HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	15	Max WS	PRO_Tr200_T3h_Rev04	2.11	45.42	46.20		46.26	0.004239	1.14	1.85	3.14	0.47
Grignana	15	Max WS	PRO_Tr30_T3h_Rev04	1.93	45.42	46.16		46.22	0.004202	1.11	1.74	3.08	0.47
Grignana	14.9												
				Lat Struct									
Grignana	14.8												
				Lat Struct									
Grignana	14	Max WS	PRO_Tr200_T3h_Rev04	2.11	45.20	46.06		46.10	0.003590	0.95	2.22	4.89	0.45
Grignana	14	Max WS	PRO_Tr30_T3h_Rev04	1.93	45.20	46.02		46.07	0.003325	0.94	2.05	4.26	0.43
Grignana	13	Max WS	PRO_Tr200_T3h_Rev04	2.10	45.05	45.93		45.98	0.003052	0.98	2.15	3.93	0.42
Grignana	13	Max WS	PRO_Tr30_T3h_Rev04	1.93	45.05	45.89		45.94	0.003247	0.97	1.99	3.88	0.43
Grignana	12	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.94	45.79		45.84	0.003196	0.96	2.19	4.34	0.43
Grignana	12	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.94	45.75		45.80	0.003139	0.96	2.02	3.94	0.43
Grignana	11	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.62	45.72		45.75	0.001654	0.79	2.66	4.09	0.31
Grignana	11	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.62	45.68		45.71	0.001618	0.77	2.52	3.98	0.31
Grignana	10	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.65	45.65		45.68	0.001446	0.76	2.76	4.07	0.30
Grignana	10	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.65	45.62		45.65	0.001399	0.74	2.63	3.99	0.29
Grignana	9	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.61	45.61		45.63	0.001497	0.73	2.89	4.54	0.29
Grignana	9	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.61	45.57		45.60	0.001447	0.70	2.74	4.43	0.29
Grignana	8	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.60	45.61	45.02	45.63	0.001153	0.66	3.19	4.58	0.25
Grignana	8	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.60	45.57	44.99	45.59	0.001102	0.63	3.04	4.47	0.25
Grignana	7.5												
				Bridge									
Grignana	7	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.60	45.52		45.56	0.002768	0.91	2.31	3.22	0.34
Grignana	7	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.60	45.50		45.54	0.002389	0.85	2.26	3.05	0.32
Grignana	6	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.50	45.53		45.55	0.000729	0.57	3.67	5.10	0.22
Grignana	6	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.50	45.52		45.53	0.000658	0.54	3.58	5.05	0.20
Grignana	5.9												
				Lat Struct									
Grignana	5.8												
				Lat Struct									
Grignana	5	Max WS	PRO_Tr200_T3h_Rev04	2.10	44.10	45.53		45.53	0.000201	0.36	5.90	6.28	0.12



HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

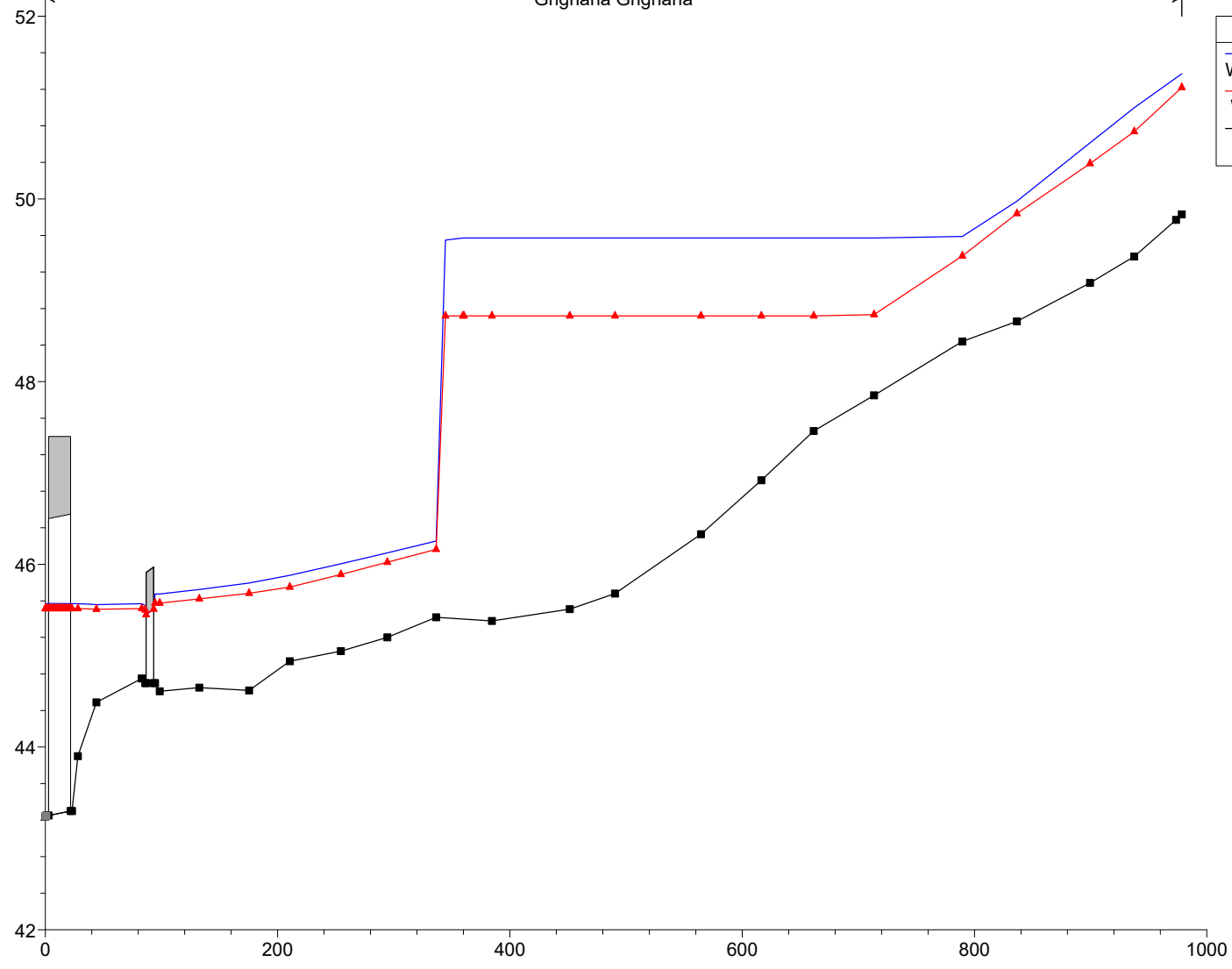
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Grignana	5	Max WS	PRO_Tr30_T3h_Rev04	1.93	44.10	45.51		45.51	0.000178	0.33	5.79	6.22	0.11
Grignana	4.9			Lat Struct									
Grignana	4	Max WS	PRO_Tr200_T3h_Rev04	1.06	43.90	45.53		45.53	0.000029	0.15	7.26	6.90	0.05
Grignana	4	Max WS	PRO_Tr30_T3h_Rev04	0.97	43.90	45.51		45.51	0.000026	0.14	7.13	6.84	0.04
Grignana	3	Max WS	PRO_Tr200_T3h_Rev04	0.00	43.30	45.53		45.53	0.000000	0.00	13.93	8.47	0.00
Grignana	3	Max WS	PRO_Tr30_T3h_Rev04	0.00	43.30	45.52		45.52	0.000000	0.00	13.77	8.43	0.00
Grignana	2.5			Culvert									
Grignana	2	Max WS	PRO_Tr200_T3h_Rev04	0.00	43.25	45.53		45.53	0.000000	0.00	14.97	9.11	0.00
Grignana	2	Max WS	PRO_Tr30_T3h_Rev04	0.00	43.25	45.52		45.52	0.000000	0.00	14.81	9.07	0.00
Grignana	1.8000*	Max WS	PRO_Tr200_T3h_Rev04	0.00	43.25	45.53		45.53	0.000000	0.00	14.99	9.11	0.00
Grignana	1.8000*	Max WS	PRO_Tr30_T3h_Rev04	0.00	43.25	45.52		45.52	0.000000	0.00	14.82	9.07	0.00
Grignana	1.6000*	Max WS	PRO_Tr200_T3h_Rev04	0.00	43.25	45.53		45.53	0.000000	0.00	15.00	9.12	0.00
Grignana	1.6000*	Max WS	PRO_Tr30_T3h_Rev04	0.00	43.25	45.52		45.52	0.000000	0.00	14.83	9.07	0.00
Grignana	1.4000*	Max WS	PRO_Tr200_T3h_Rev04	0.00	43.24	45.53		45.53	0.000000	0.00	15.02	9.12	0.00
Grignana	1.4000*	Max WS	PRO_Tr30_T3h_Rev04	0.00	43.24	45.52		45.52	0.000000	0.00	14.85	9.08	0.00
Grignana	1.2000*	Max WS	PRO_Tr200_T3h_Rev04	0.00	43.24	45.53		45.53	0.000000	0.00	15.03	9.12	0.00
Grignana	1.2000*	Max WS	PRO_Tr30_T3h_Rev04	0.00	43.24	45.52		45.52	0.000000	0.00	14.86	9.08	0.00
Grignana	1	Max WS	PRO_Tr200_T3h_Rev04	0.00	43.24	45.53	43.25	45.53	0.000000	0.00	15.05	9.12	0.00
Grignana	1	Max WS	PRO_Tr30_T3h_Rev04	0.00	43.24	45.52	43.25	45.52	0.000000	0.00	14.88	9.08	0.00

**Rio Grignana - Verifiche idrauliche moto vario stato di progetto –  
Tr=200 e Tr=30 anni – Tp 6 ore**

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

Grignana Grignana

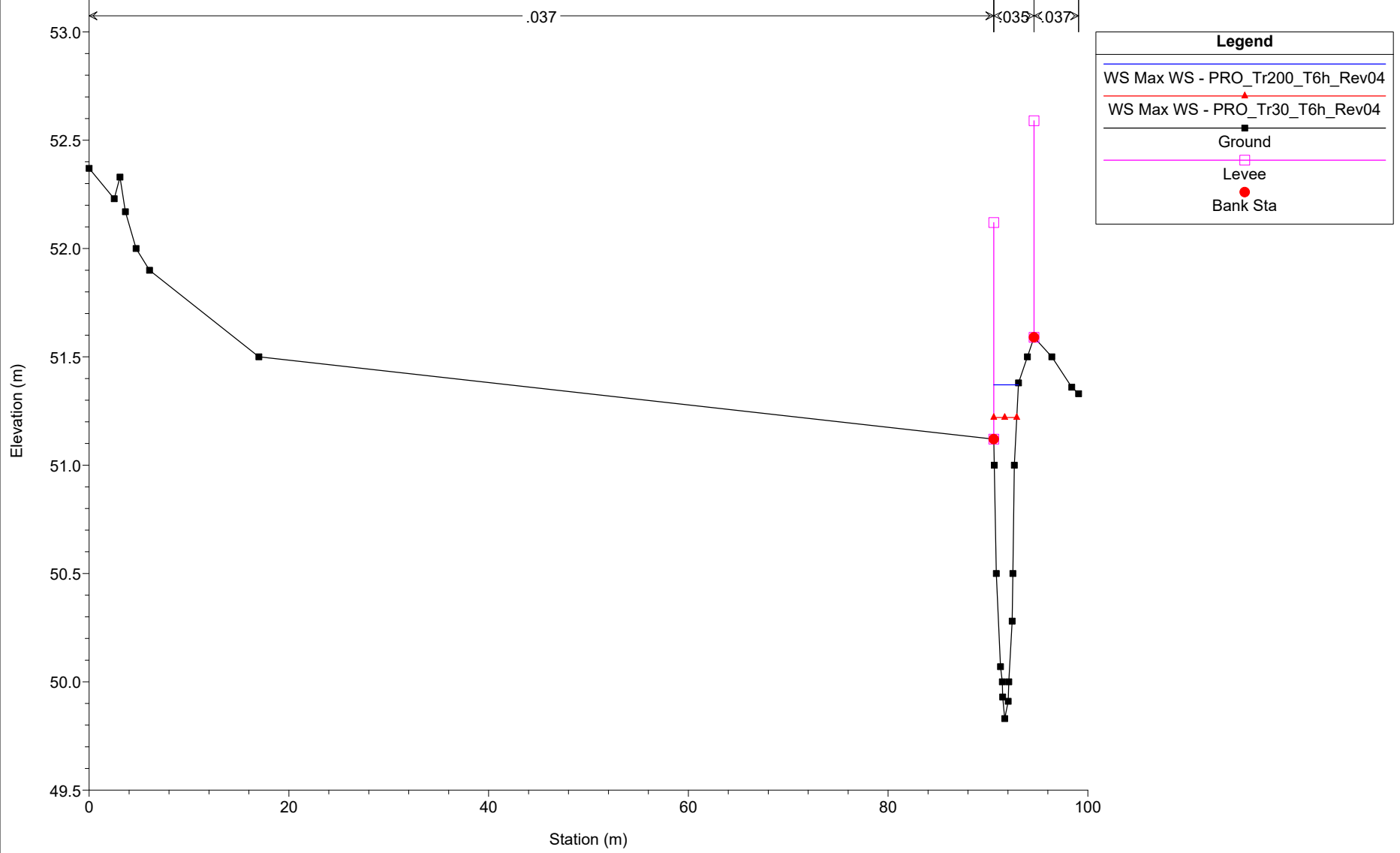
Elevation (m)



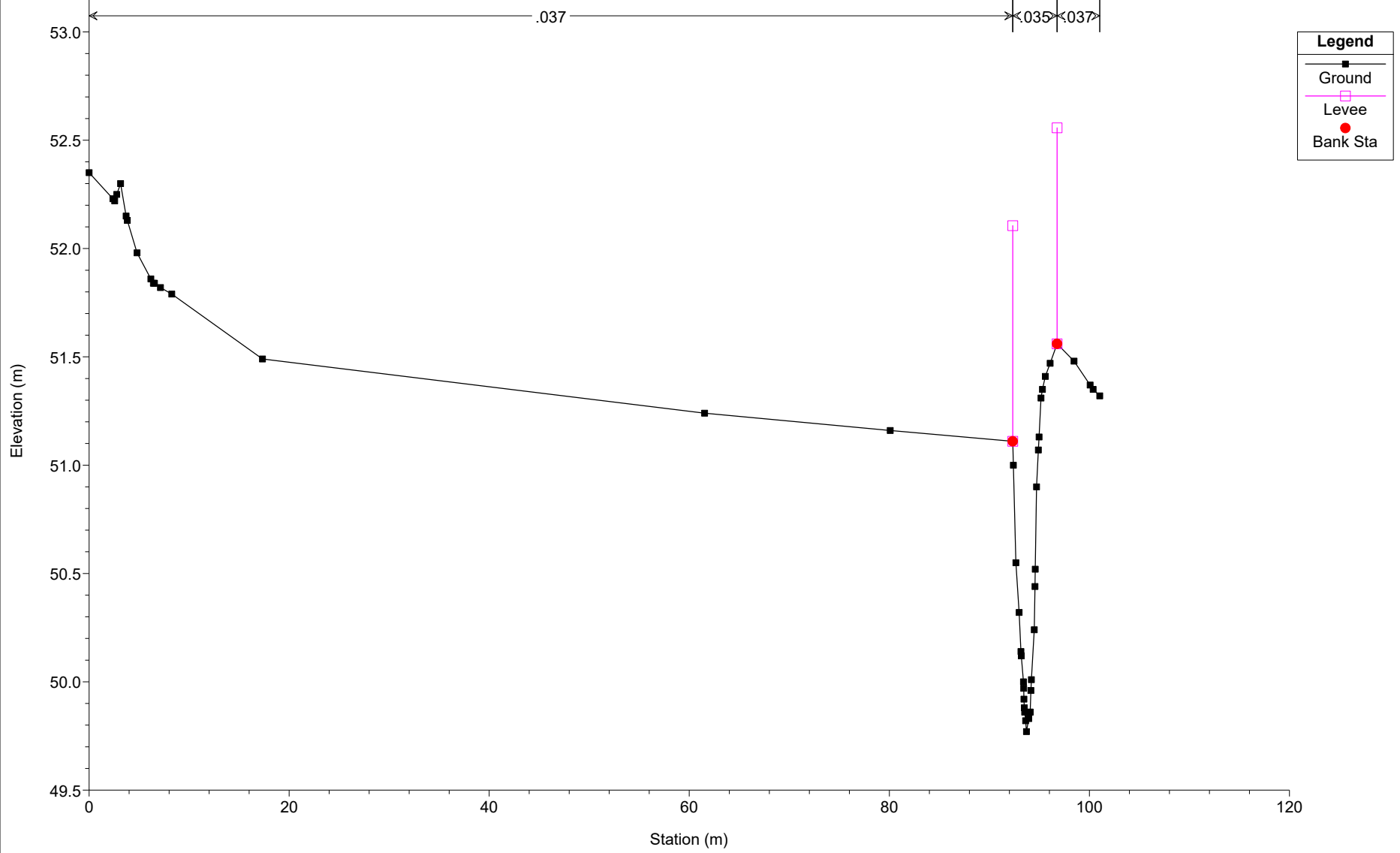
**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground

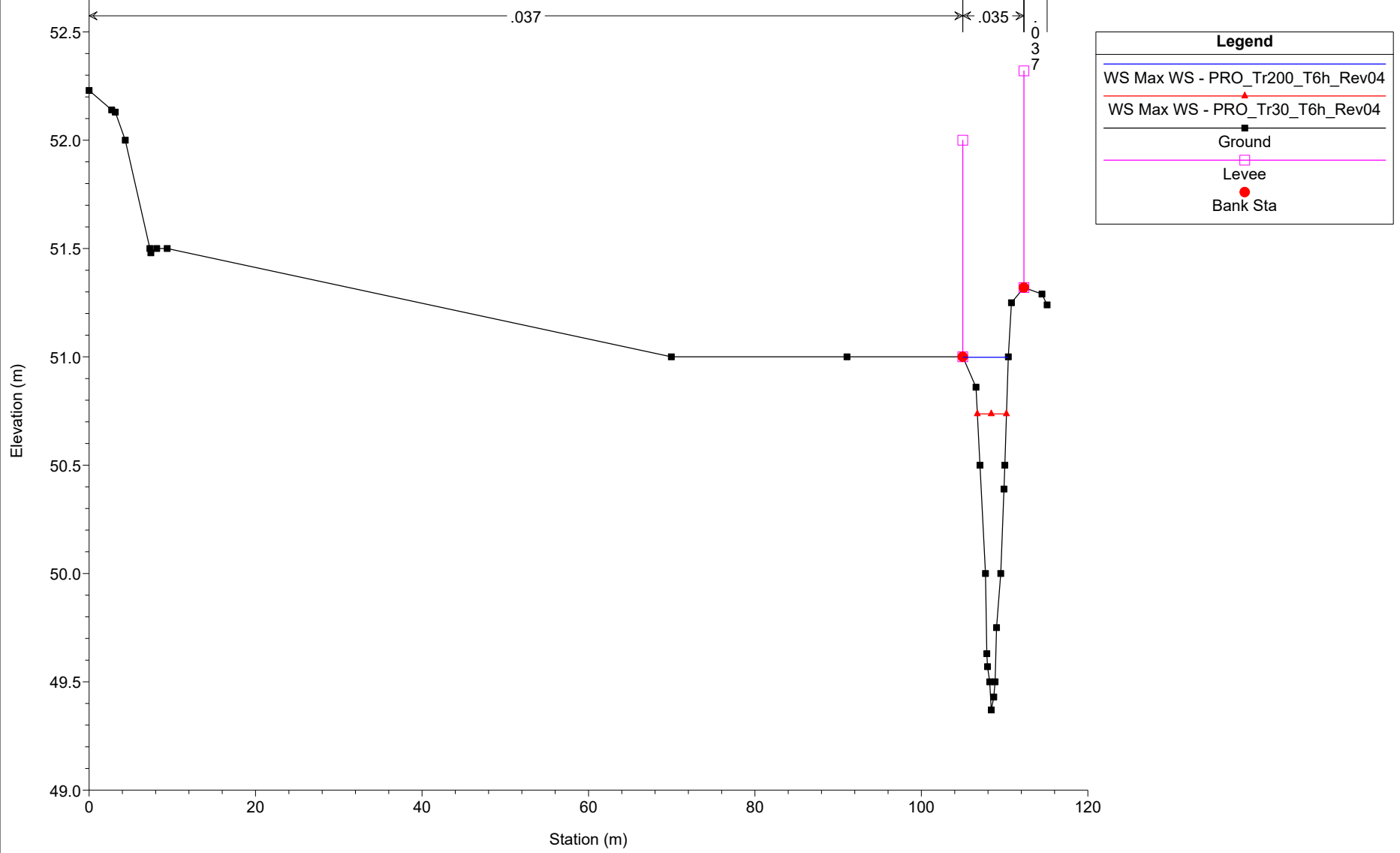
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
RS = 27



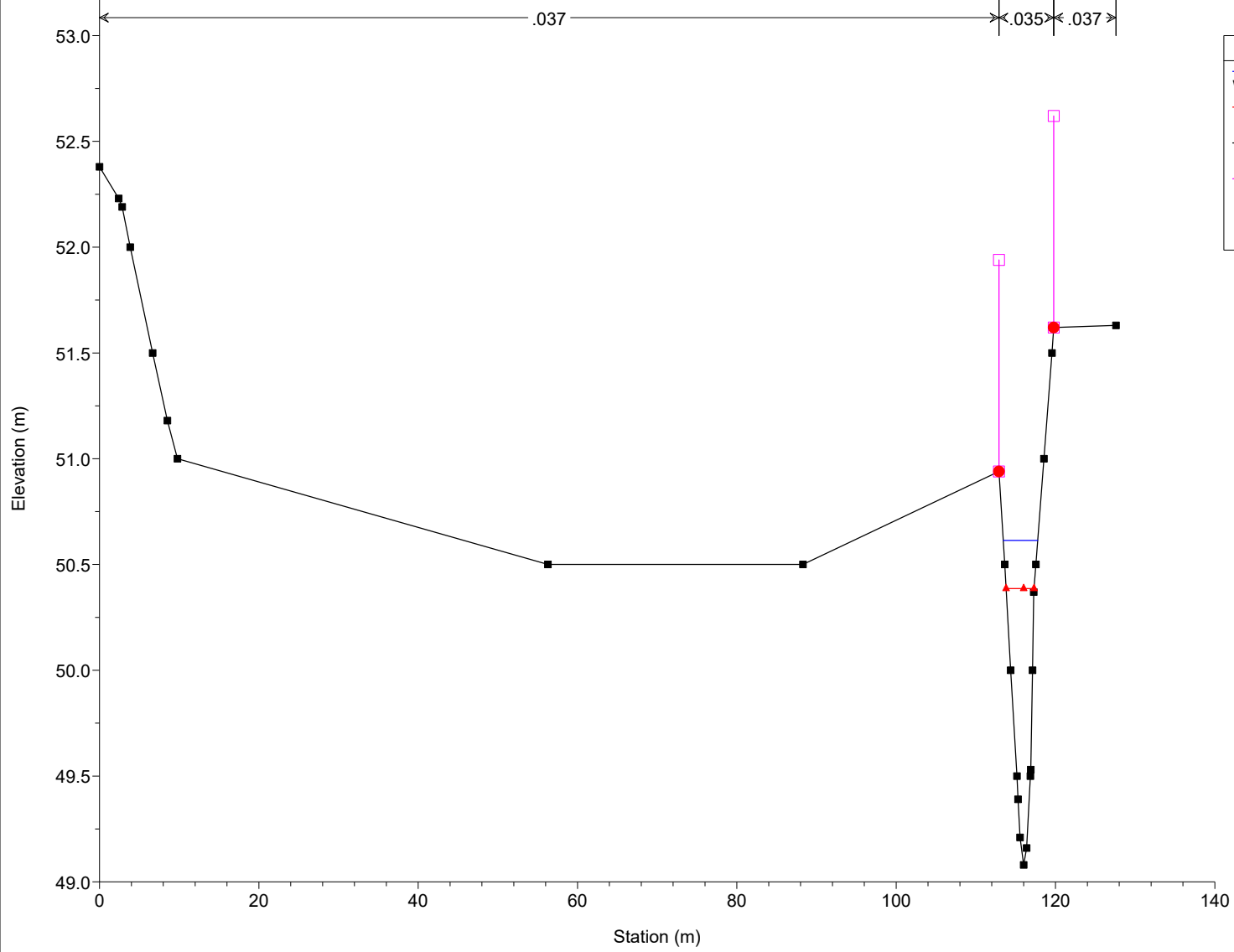
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
RS = 26.8 ausiliaria



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 26



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 25



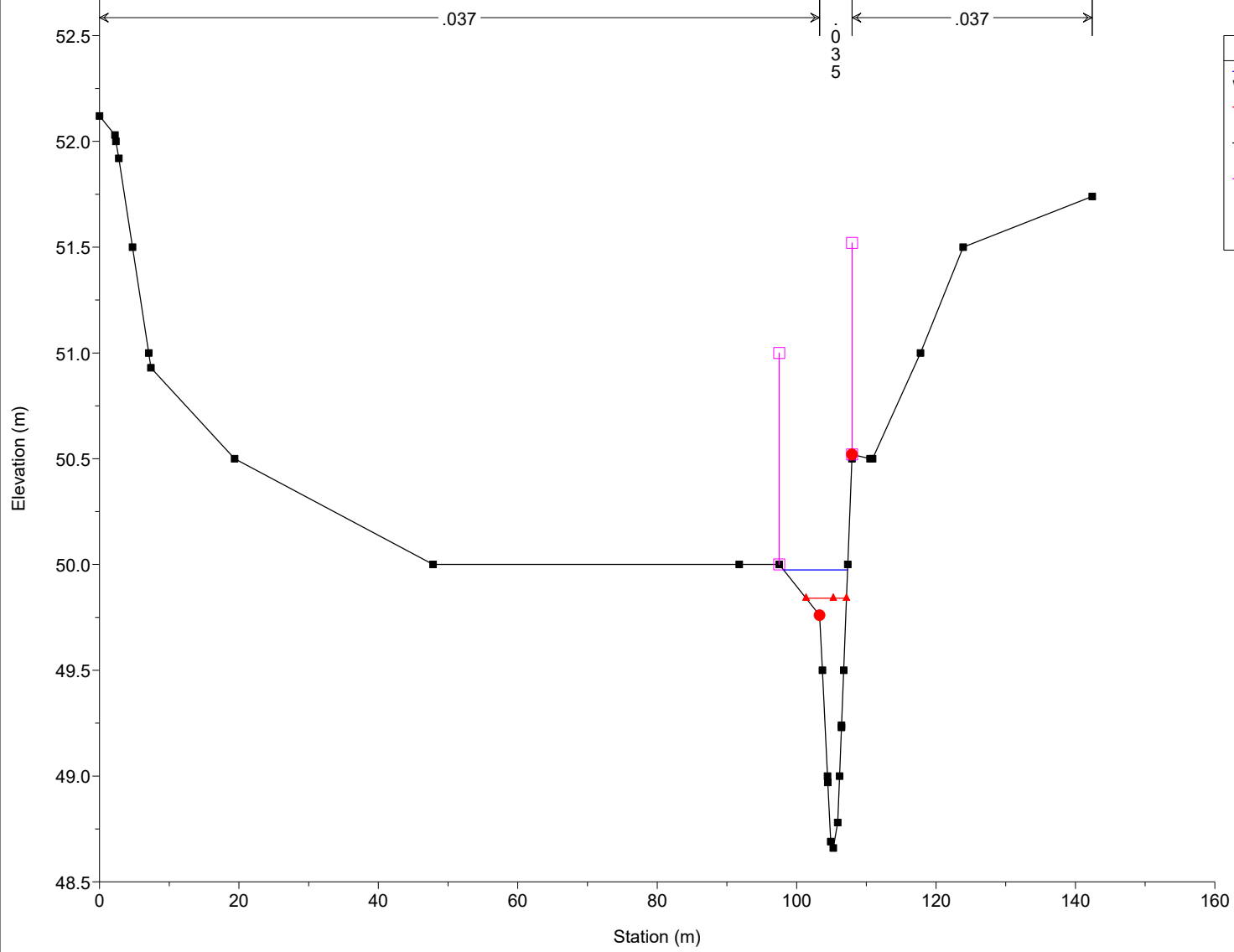
Legend	
	WS Max WS - PRO_Tr200_T6h_Rev04
	WS Max WS - PRO_Tr30_T6h_Rev04
	Ground
	Levee
	Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 24

← .037 → | | ← .037 →

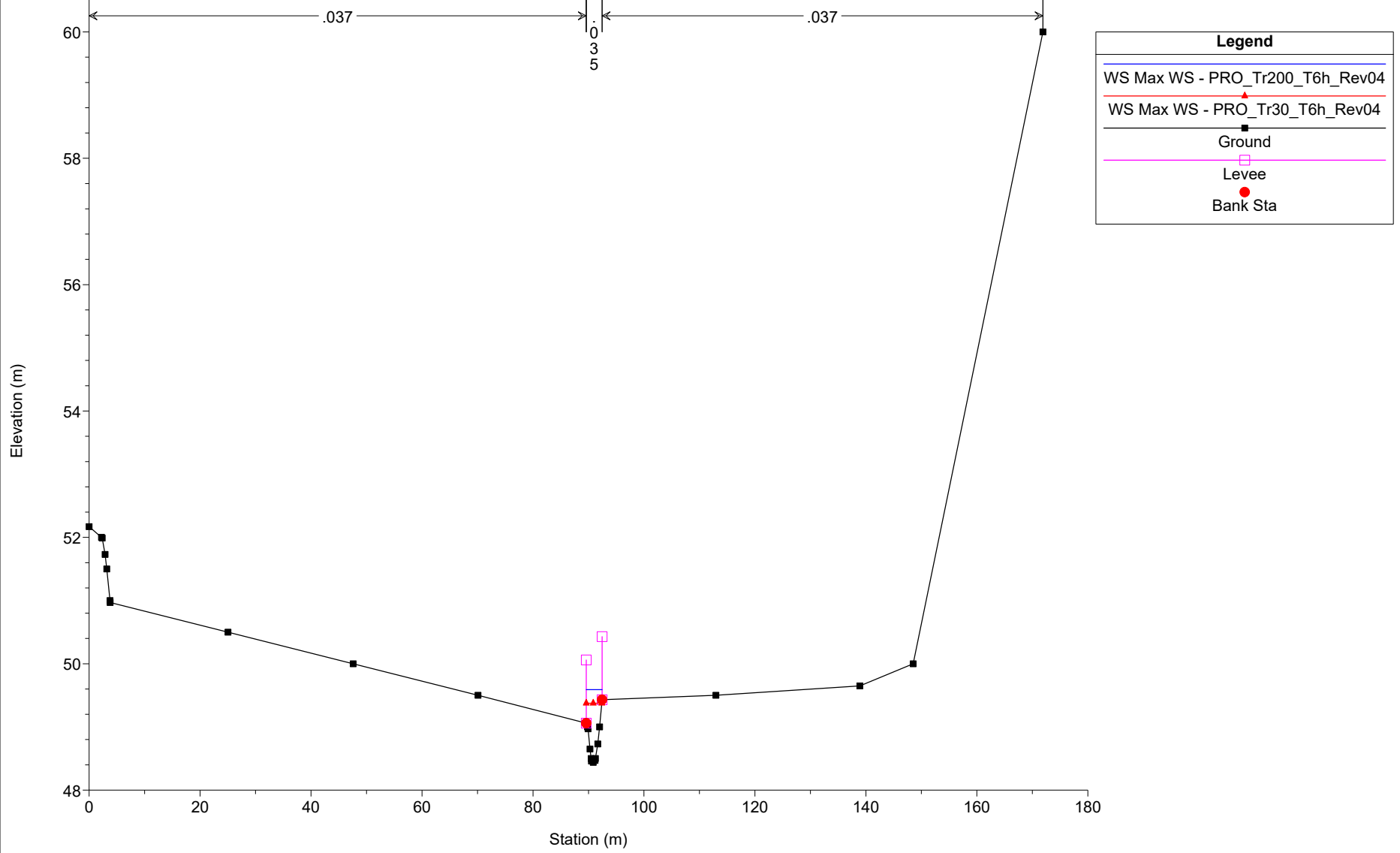
0  
3  
5



Legend	
	WS Max WS - PRO_Tr200_T6h_Rev04
	WS Max WS - PRO_Tr30_T6h_Rev04
	Ground
	Levee
	Bank Sta

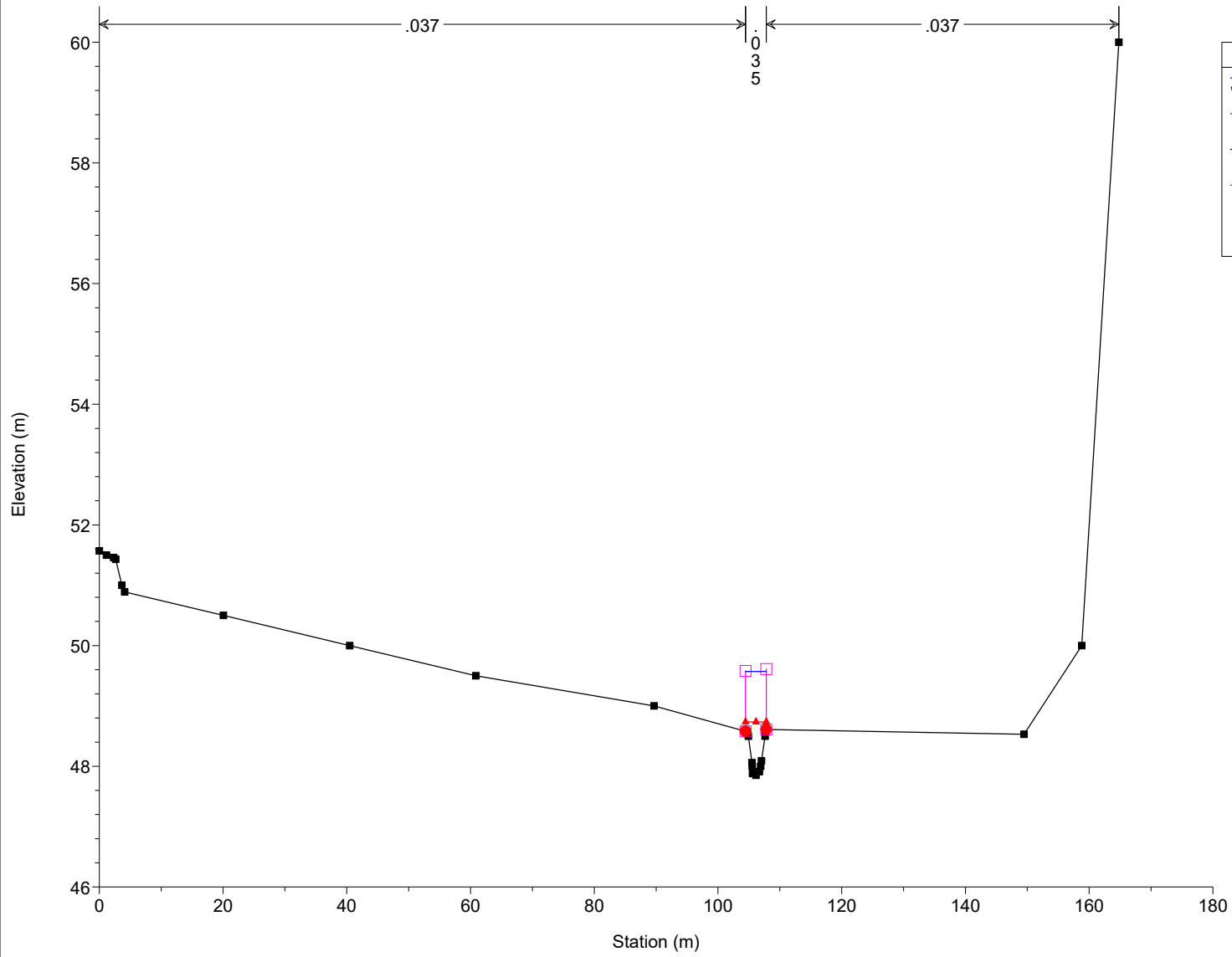


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 23



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

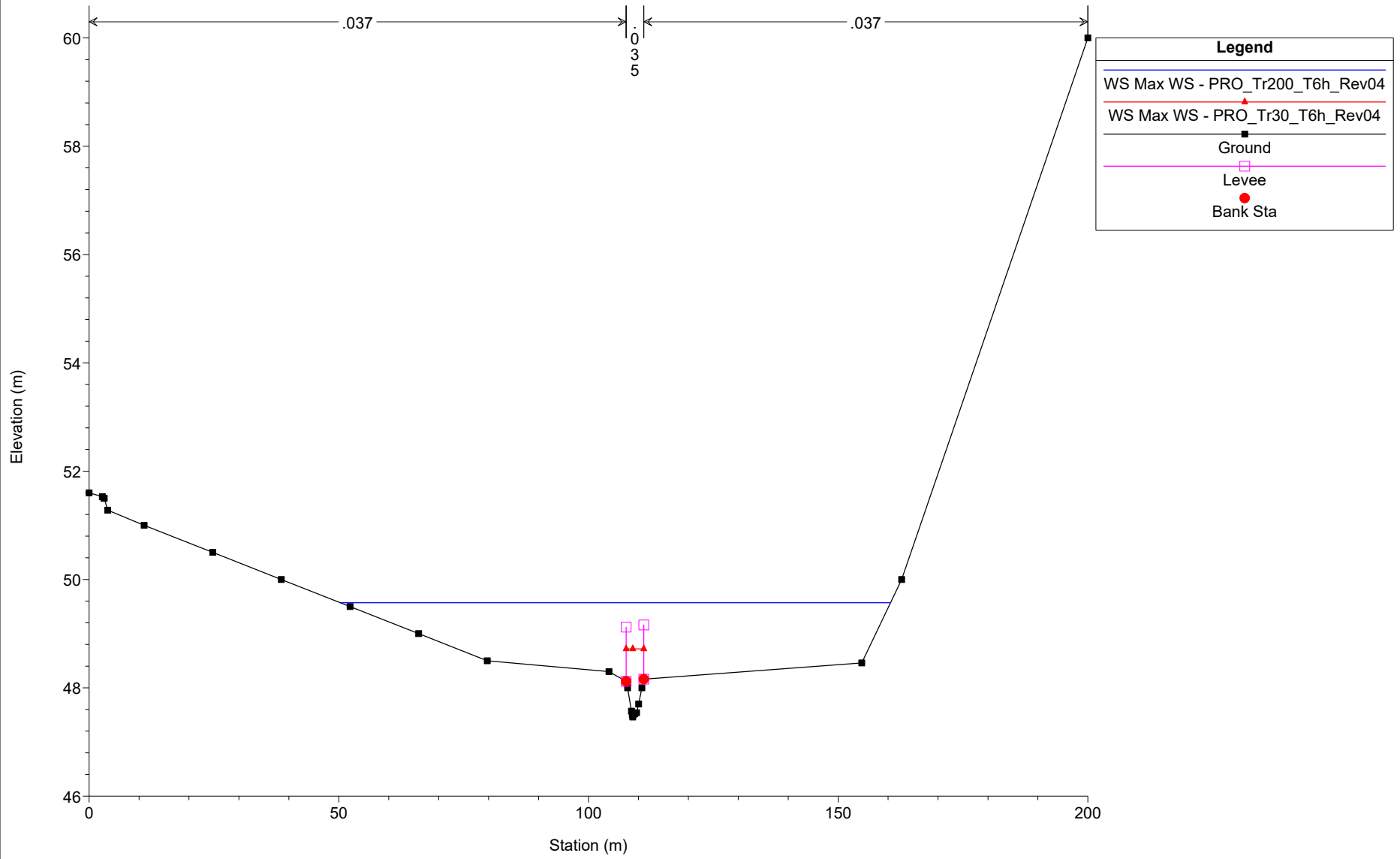
RS = 22



Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	
WS Max WS - PRO_Tr30_T6h_Rev04	
Ground	
Levee	
Bank Sta	

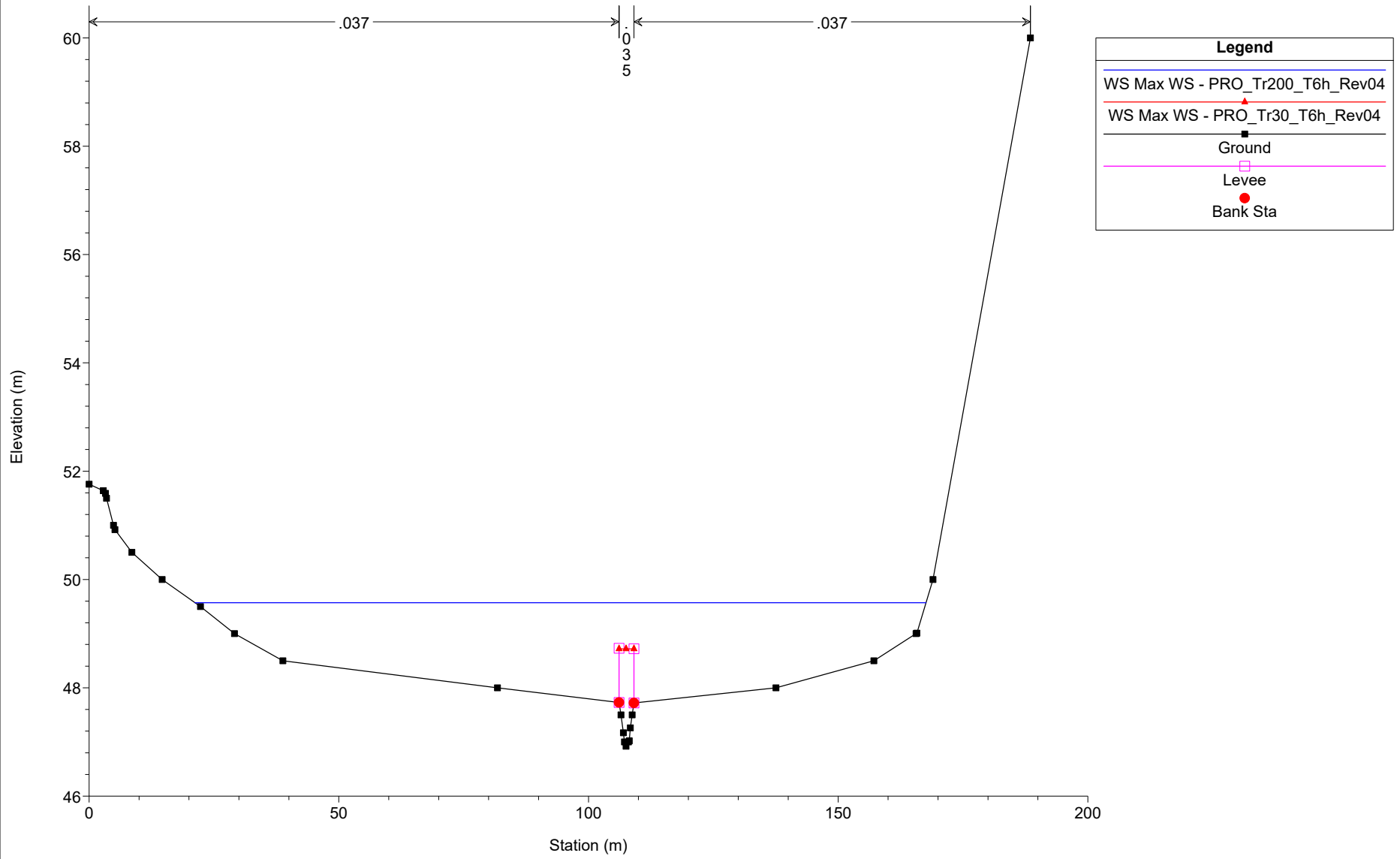
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 21



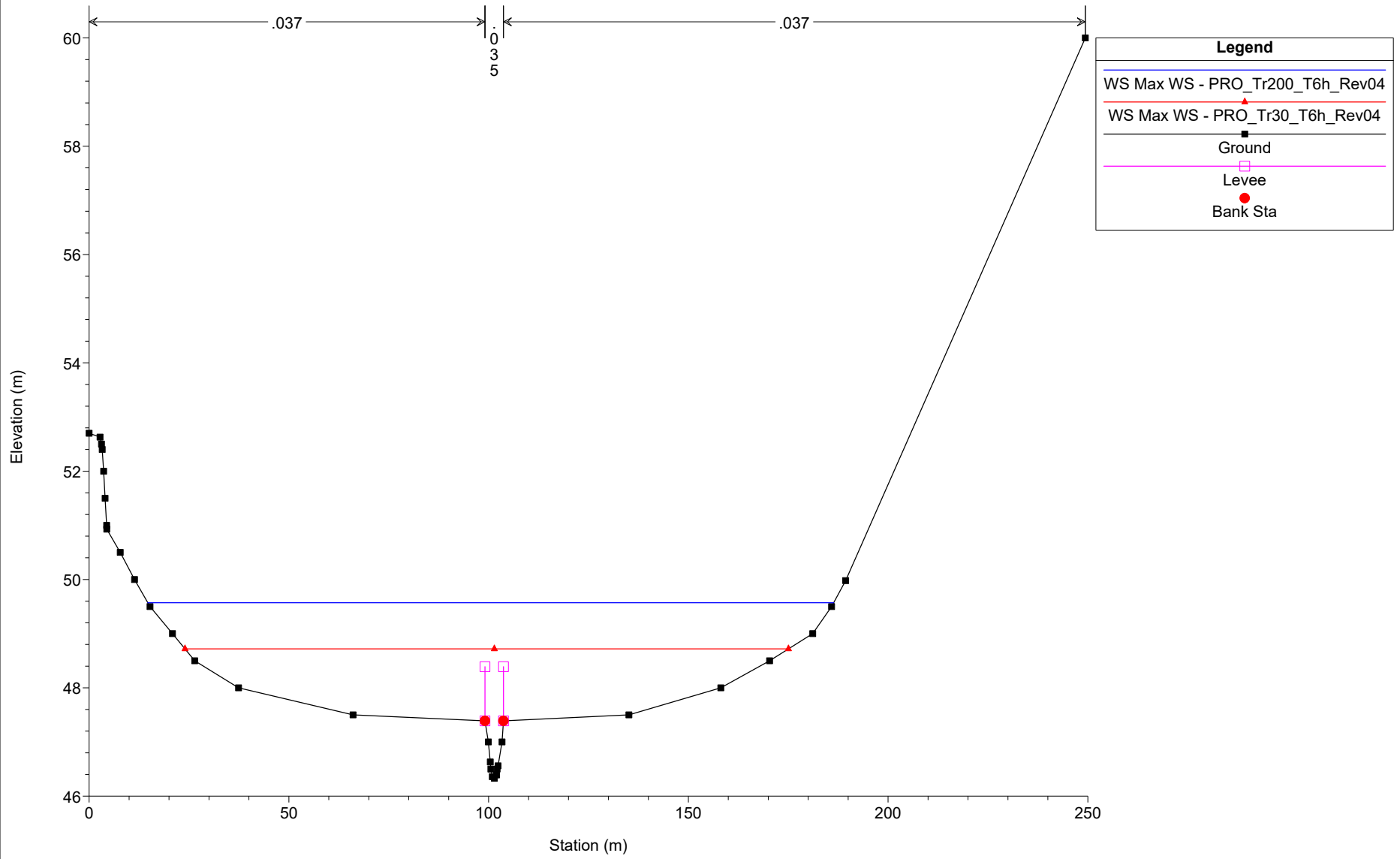
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 20



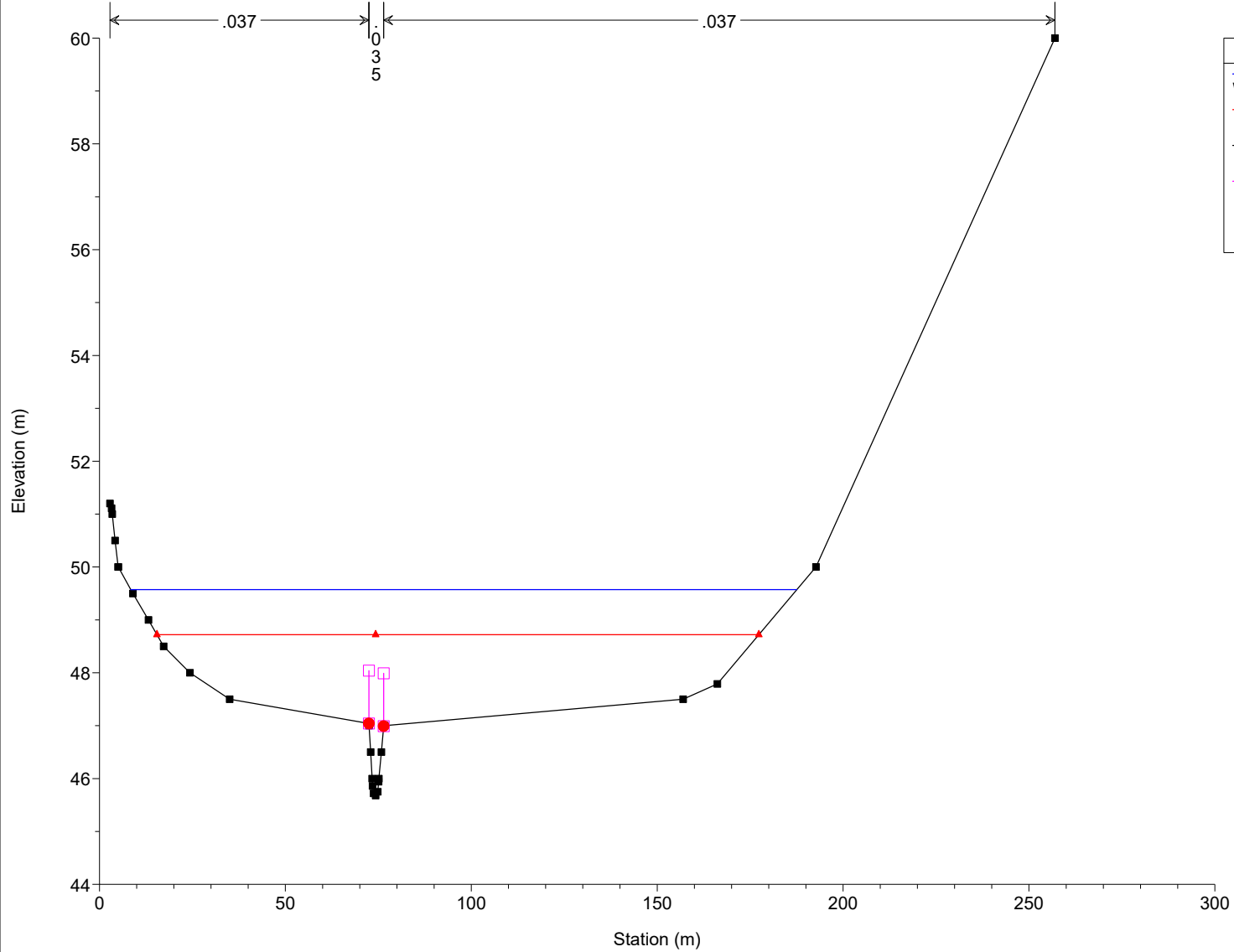
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 19



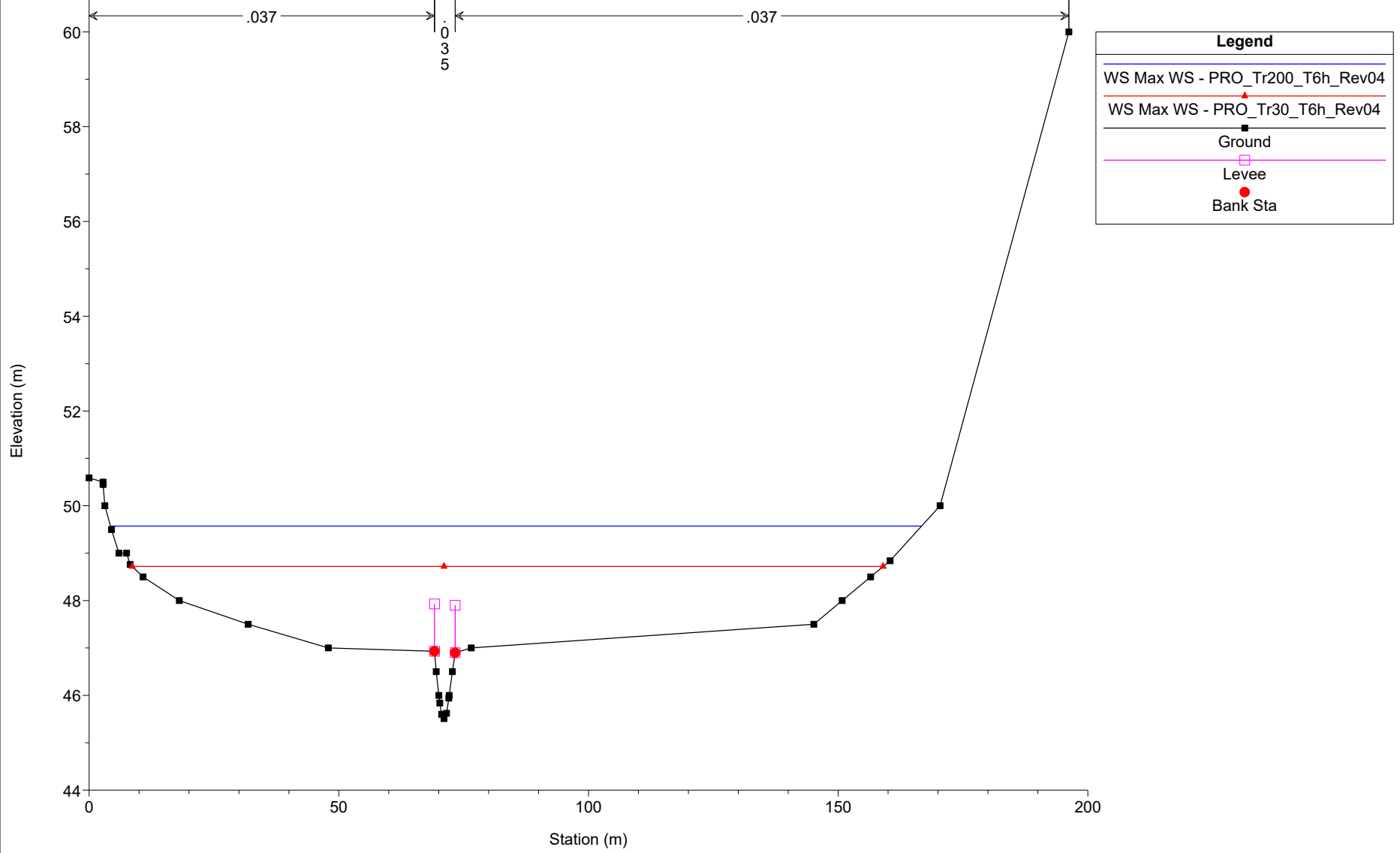
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 18



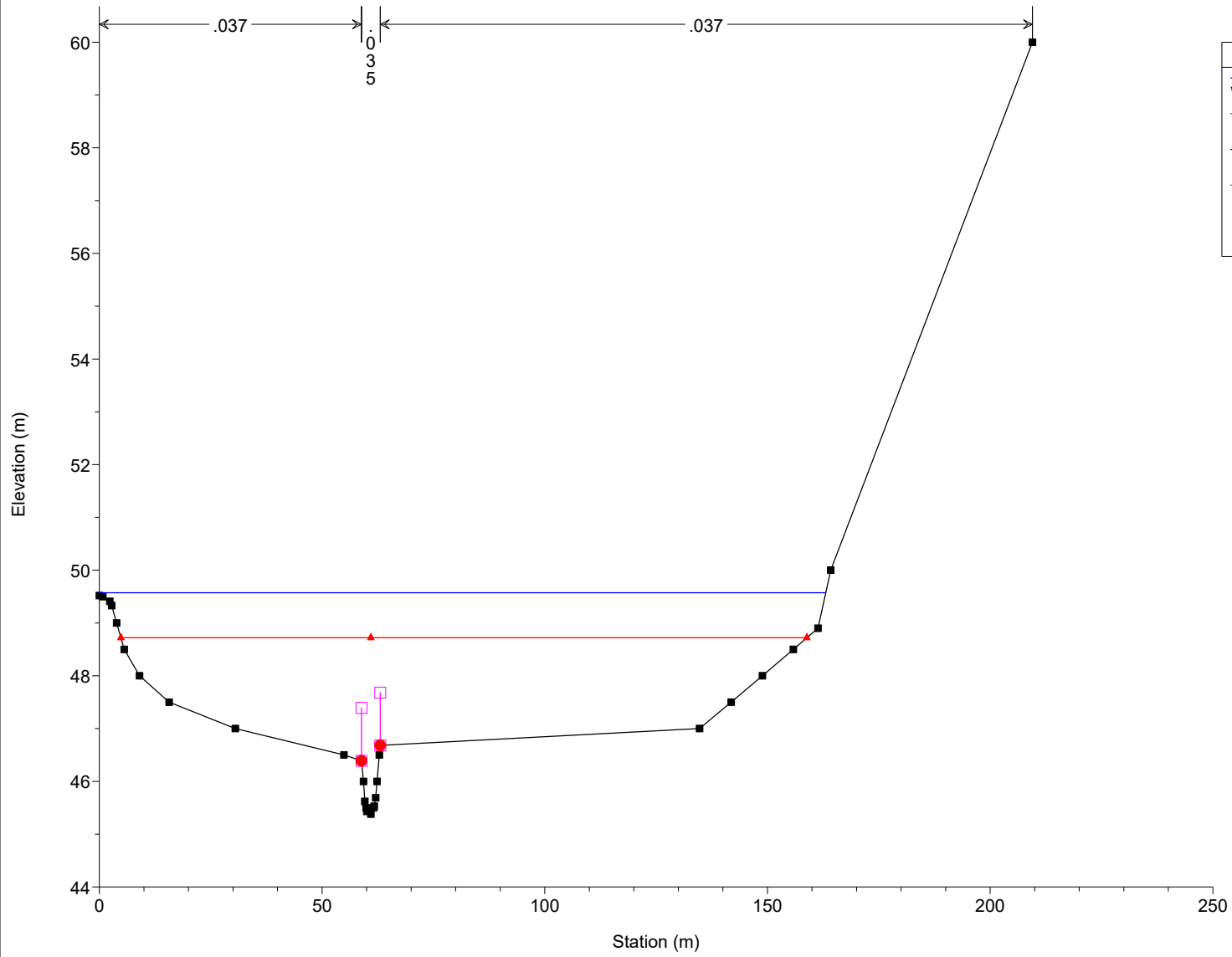
Legend	
— (Blue line)	WS Max WS - PRO_Tr200_T6h_Rev04
— (Red line)	WS Max WS - PRO_Tr30_T6h_Rev04
— (Black line)	Ground
— (Magenta line)	Levee
● (Red circle)	Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 17



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 16

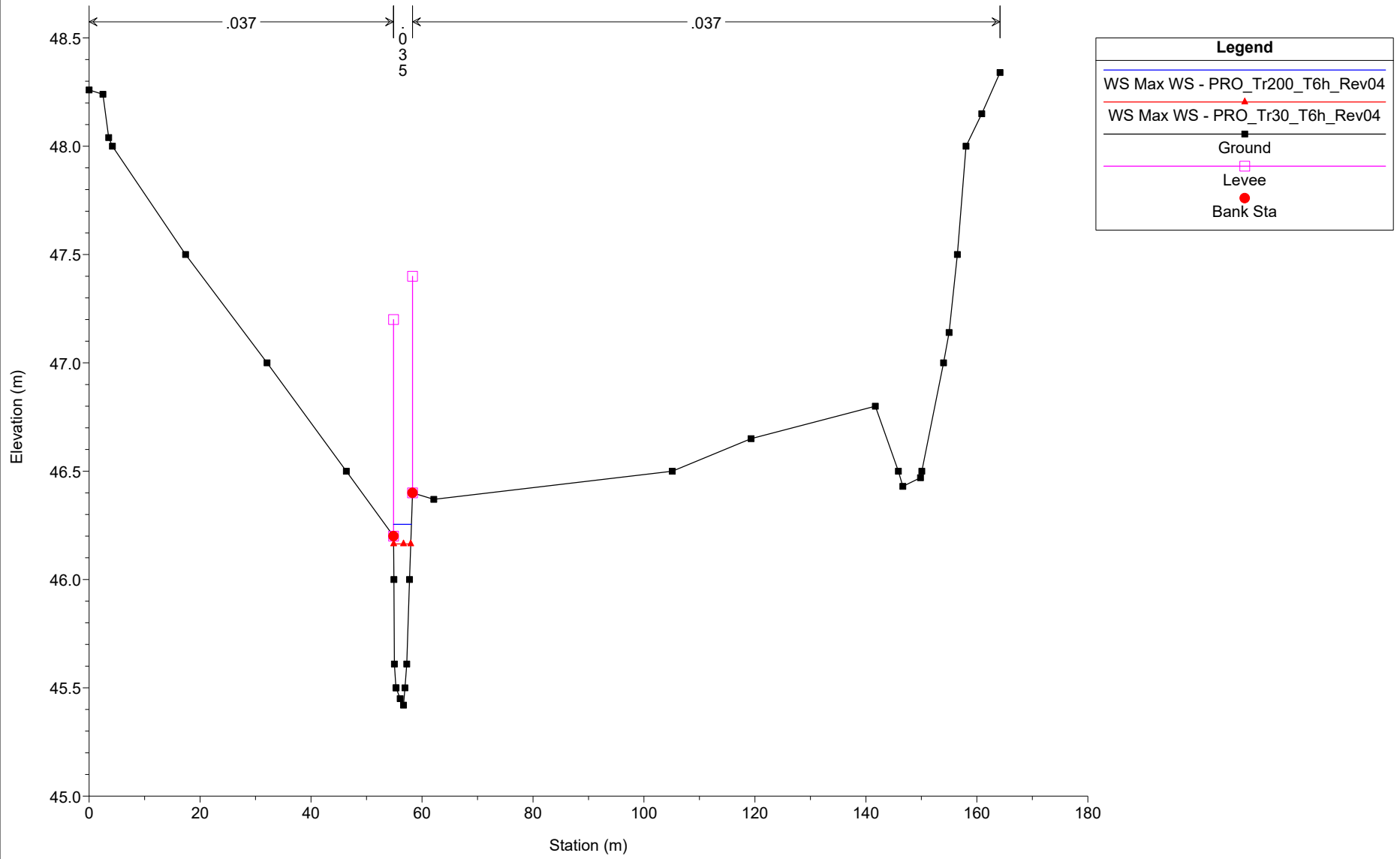


Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	▲
WS Max WS - PRO_Tr30_T6h_Rev04	■
Ground	■
Levee	□
Bank Sta	●



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 15

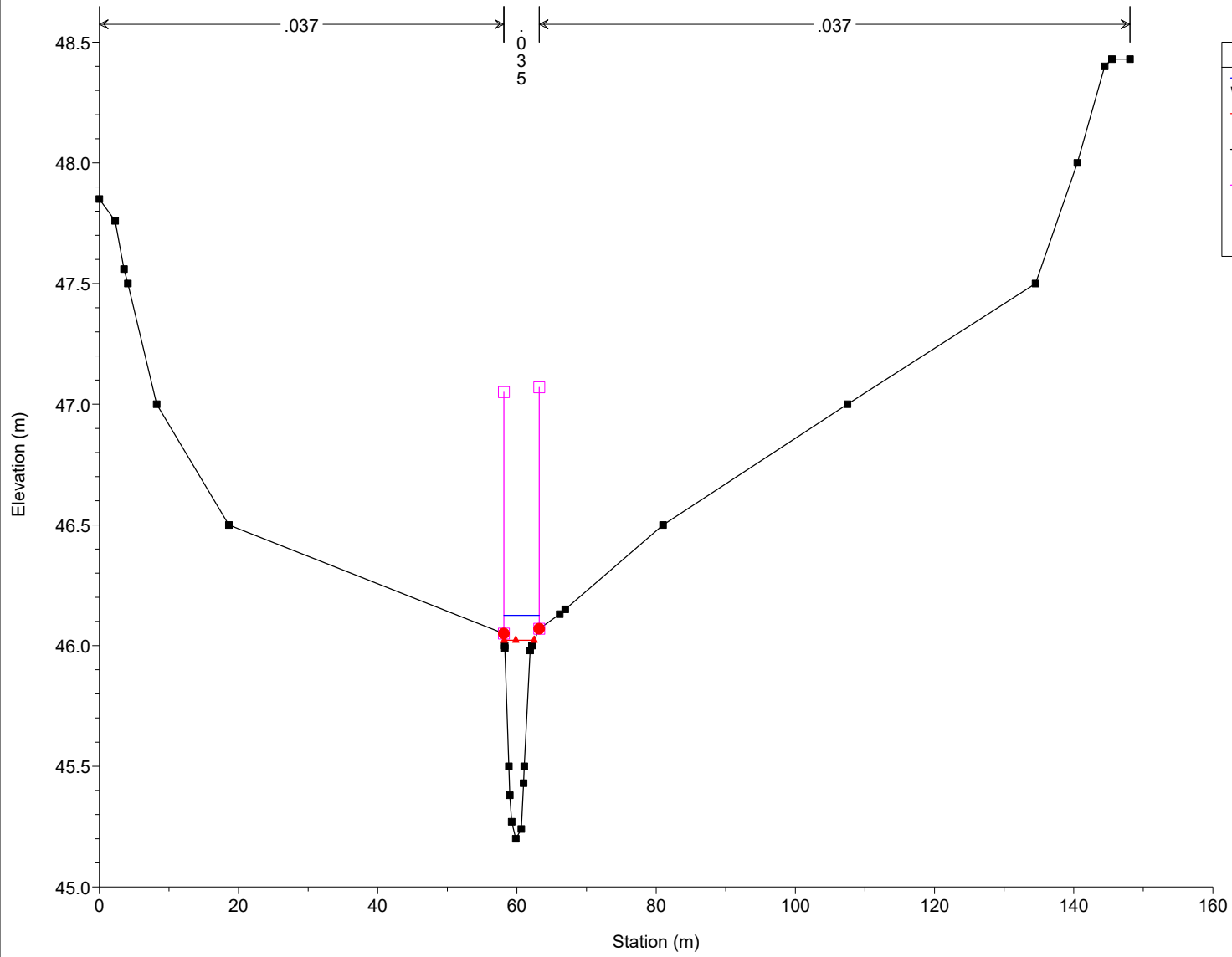


**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 14

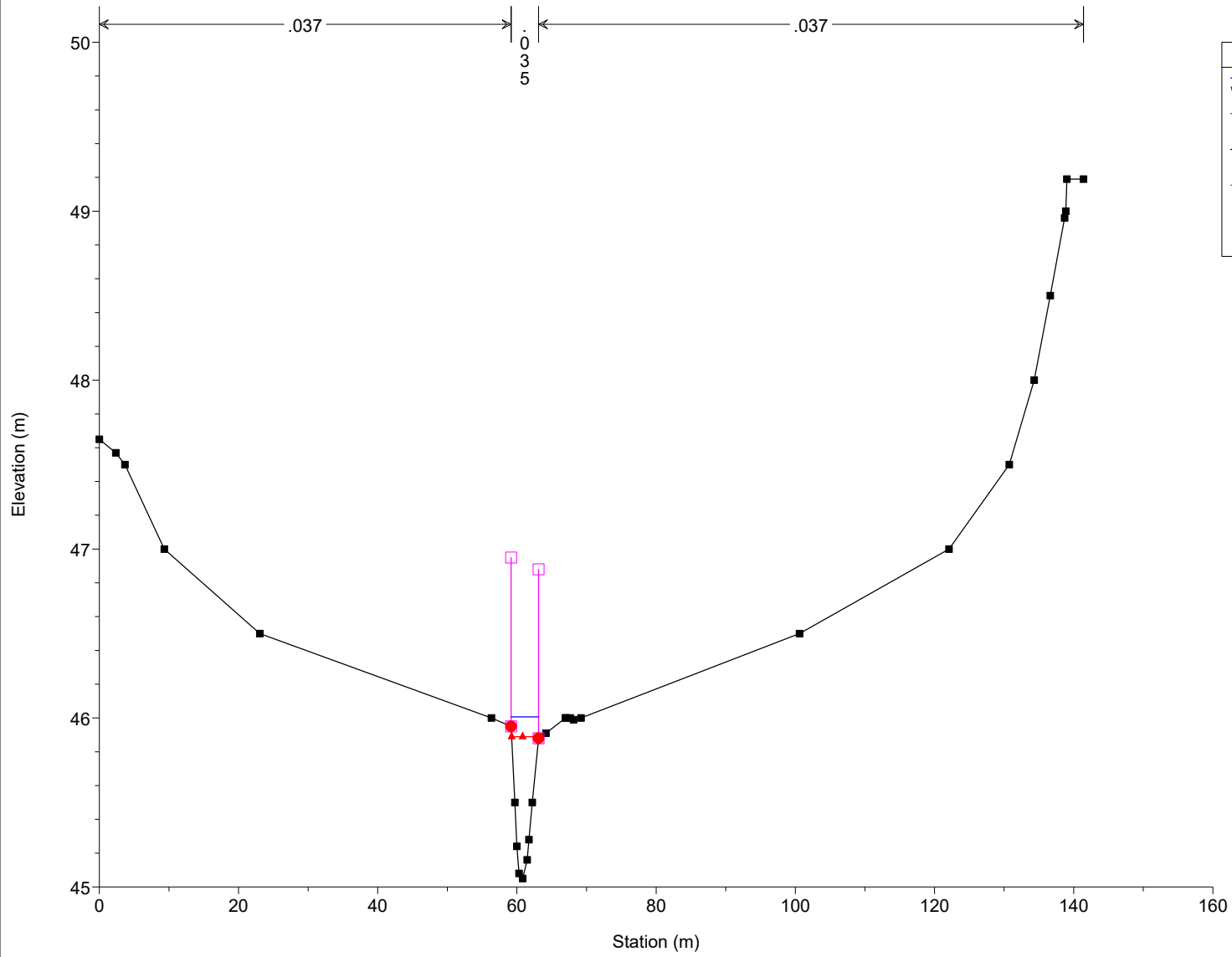


**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04 (Red line with triangle)
- WS Max WS - PRO\_Tr30\_T6h\_Rev04 (Blue line with triangle)
- Ground (Black line with square)
- Levee (Magenta line with square)
- Bank Sta (Red circle)

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

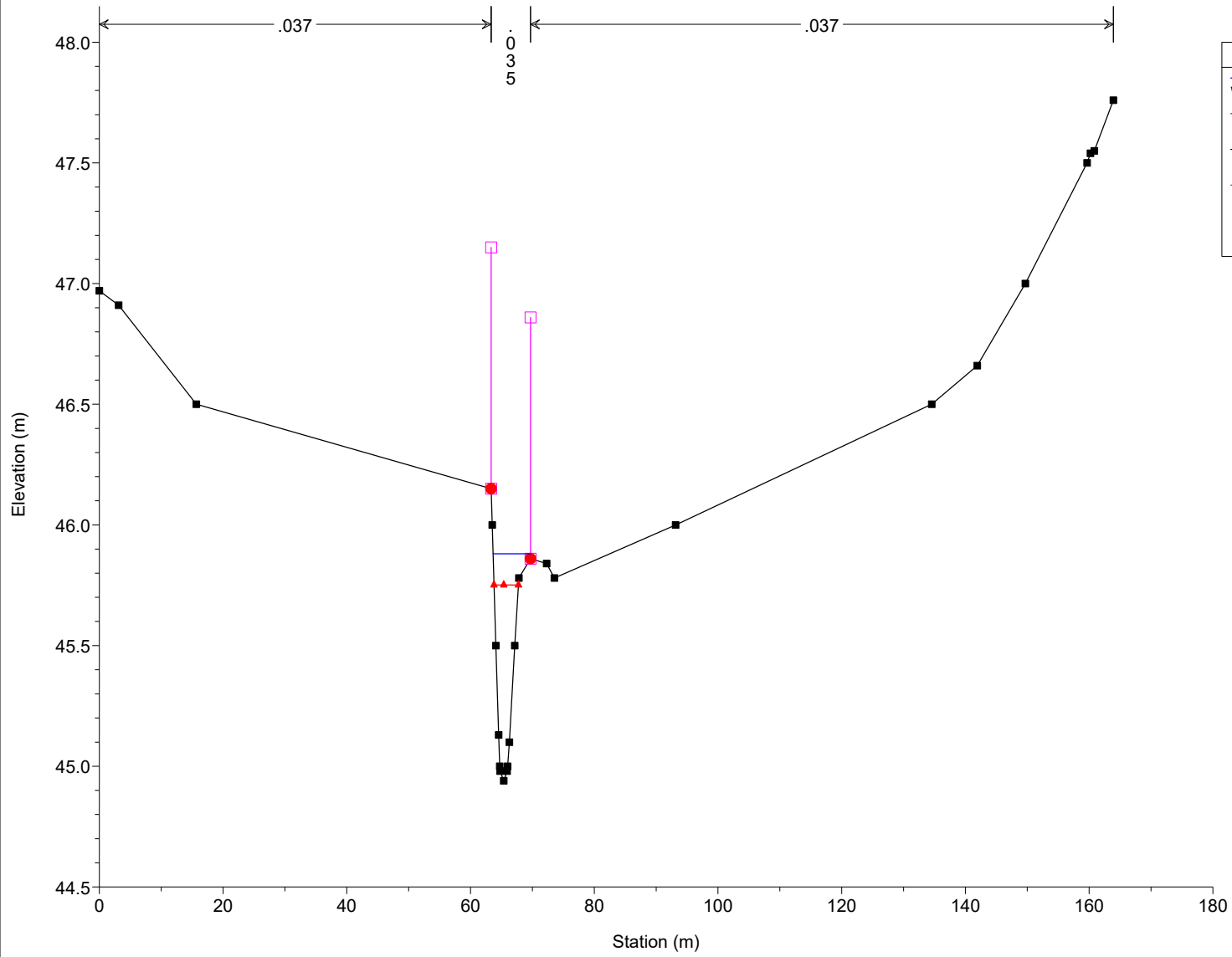
RS = 13



Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	▲
WS Max WS - PRO_Tr30_T6h_Rev04	■
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 12

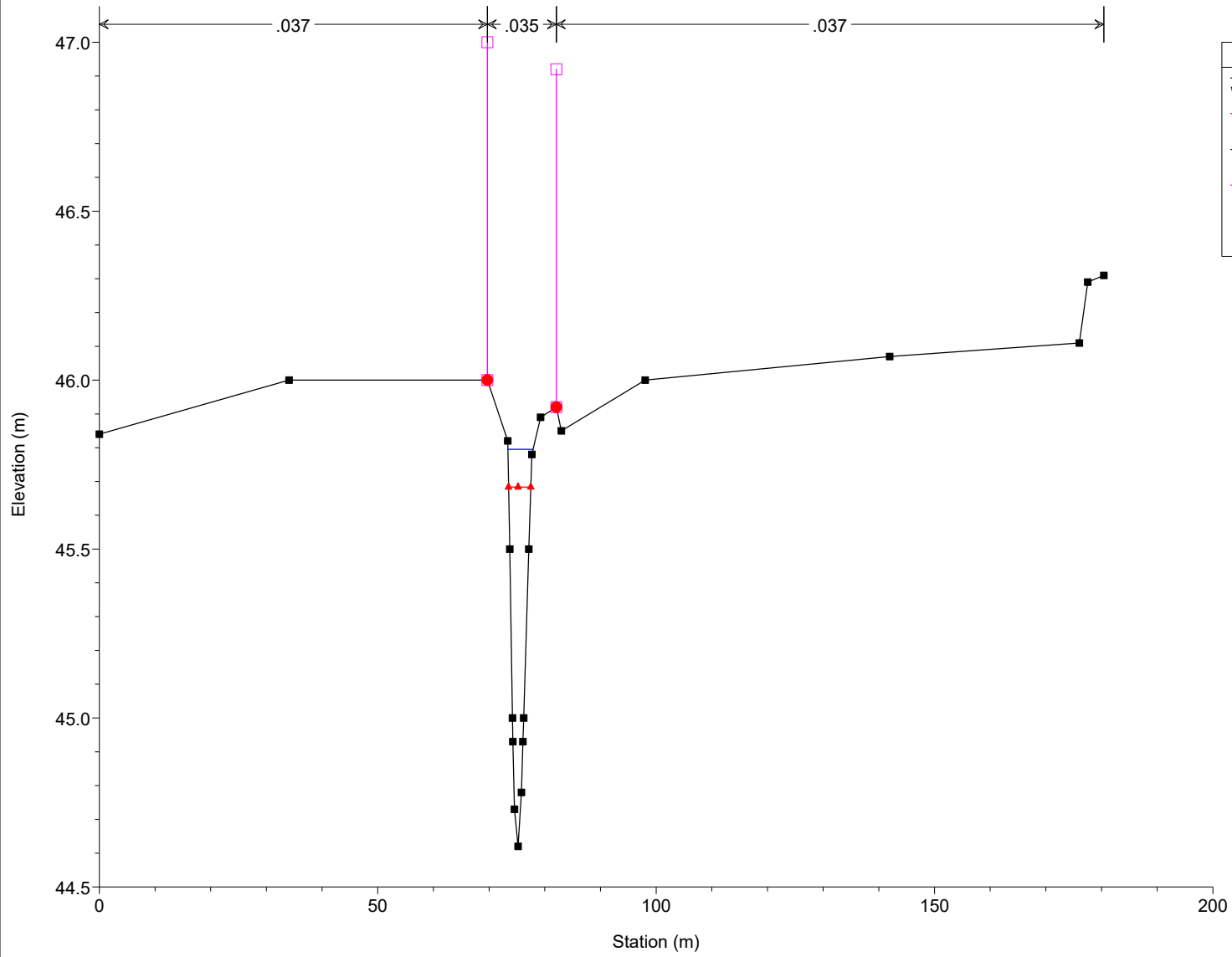


**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04 (Red line with triangle)
- WS Max WS - PRO\_Tr30\_T6h\_Rev04 (Red line with triangle)
- Ground (Black line with square)
- Levee (Magenta line with square)
- Bank Sta (Red line with circle)

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

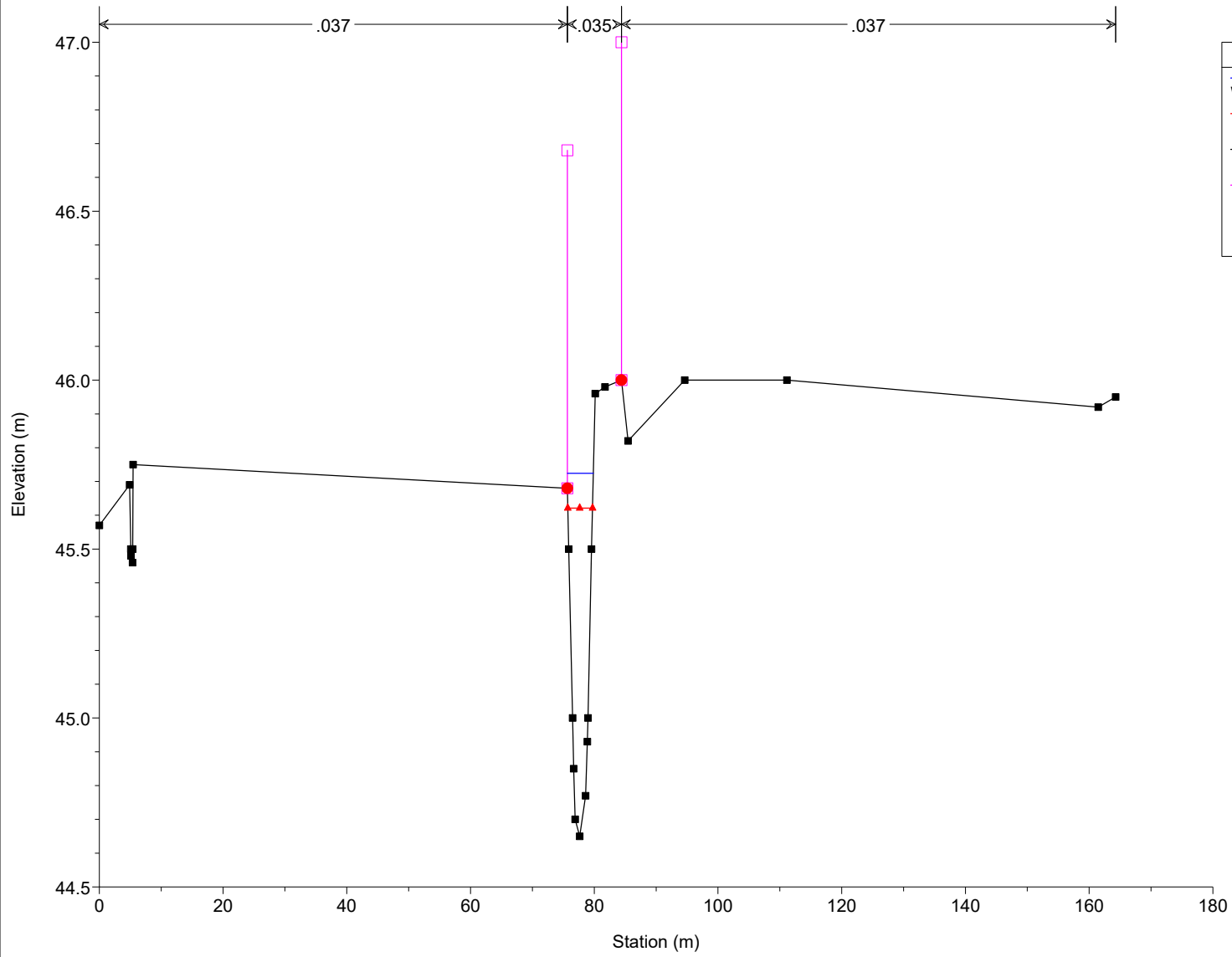
RS = 11



Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	▲
WS Max WS - PRO_Tr30_T6h_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

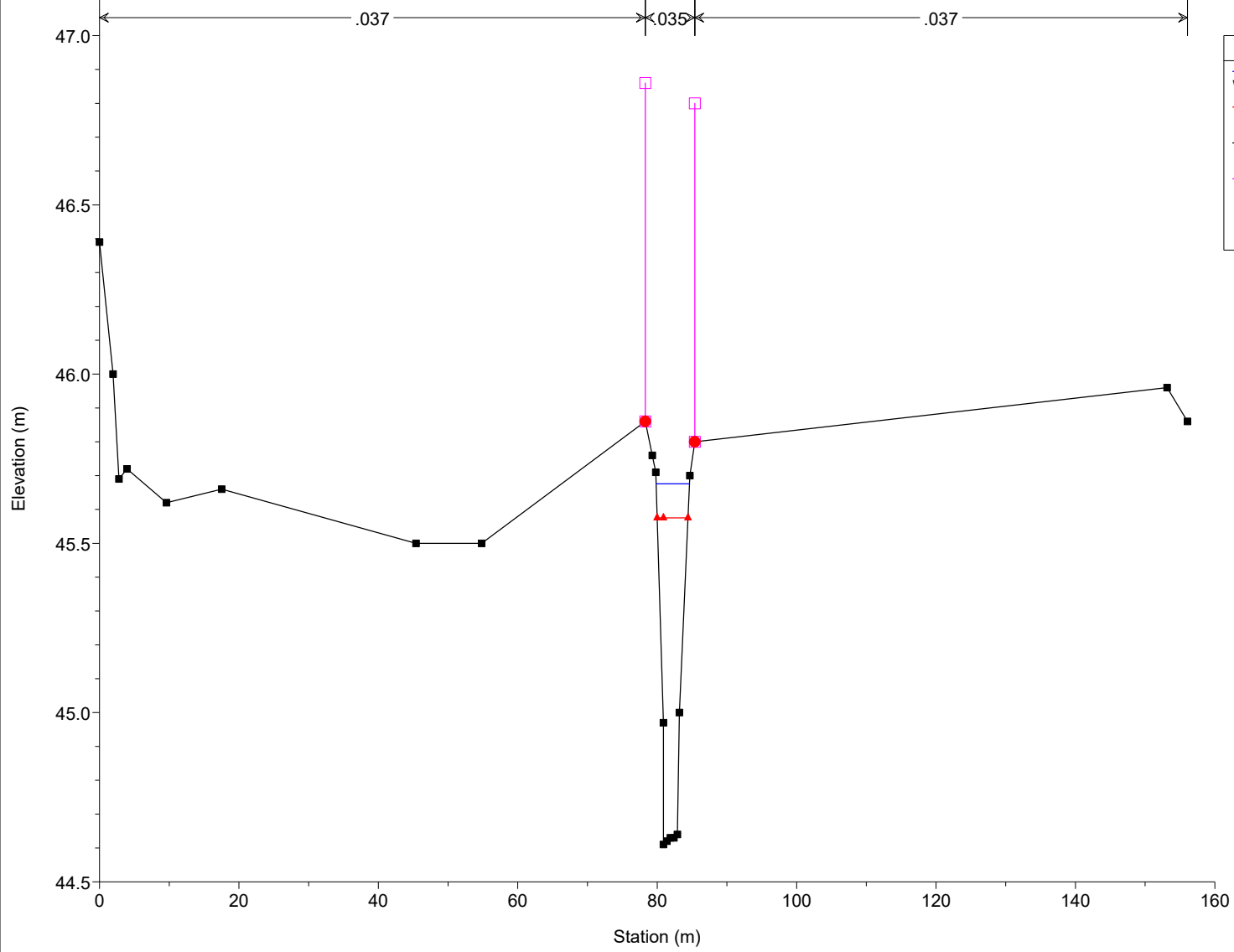
RS = 10



**Legend**

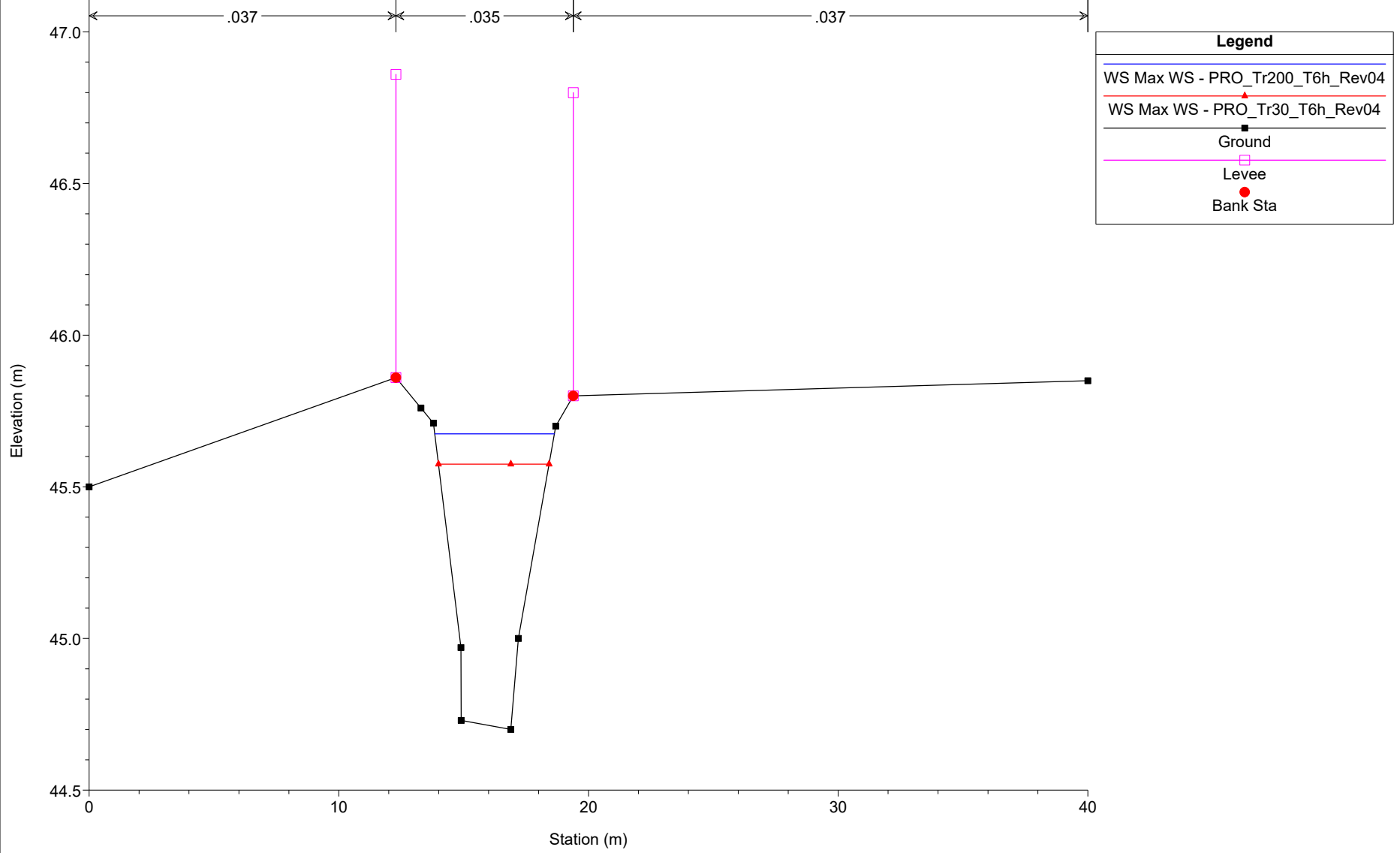
- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 9



Legend	
	WS Max WS - PRO_Tr200_T6h_Rev04
	WS Max WS - PRO_Tr30_T6h_Rev04
	Ground
	Levee
	Bank Sta

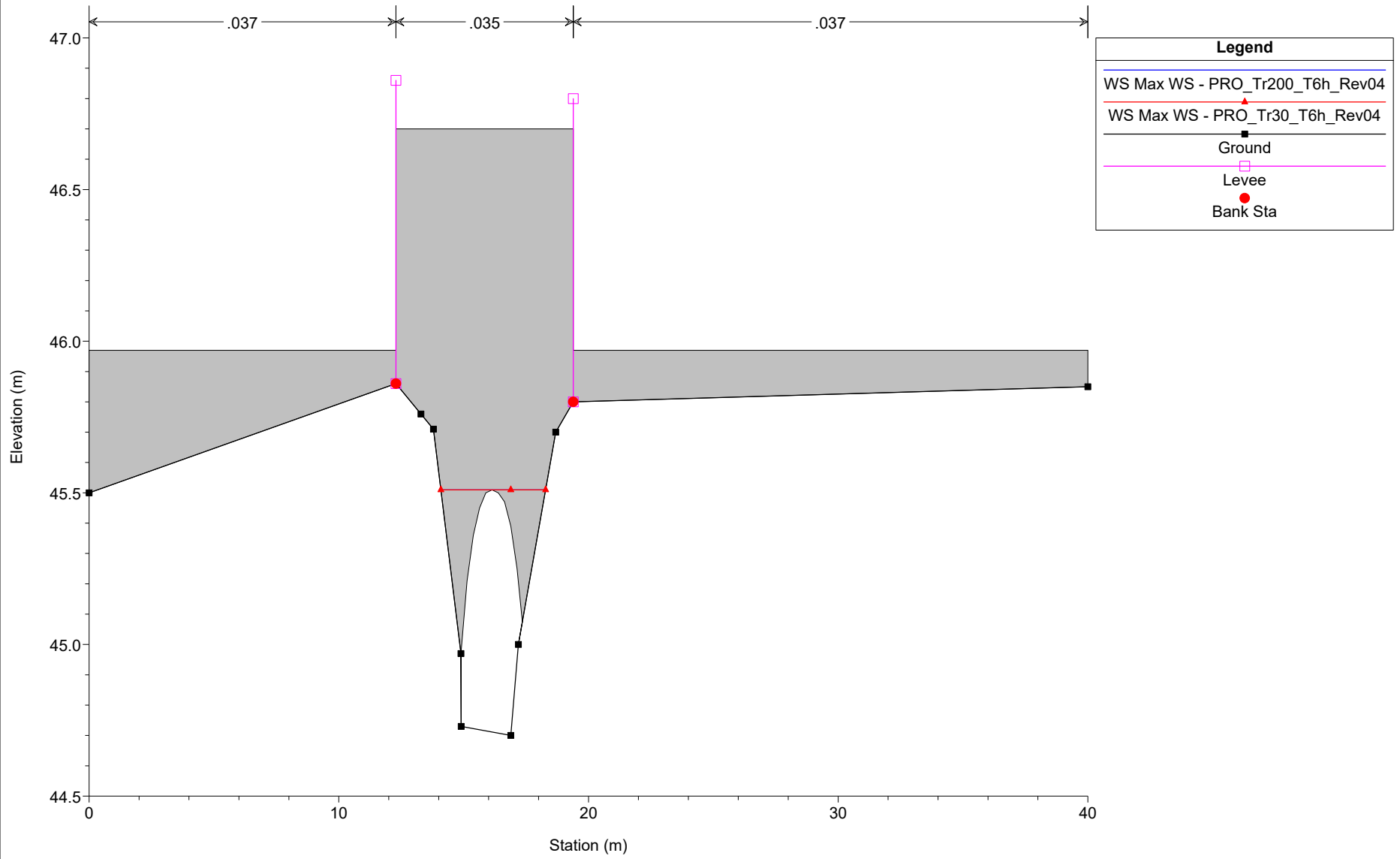
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 8 PGR0004\_c





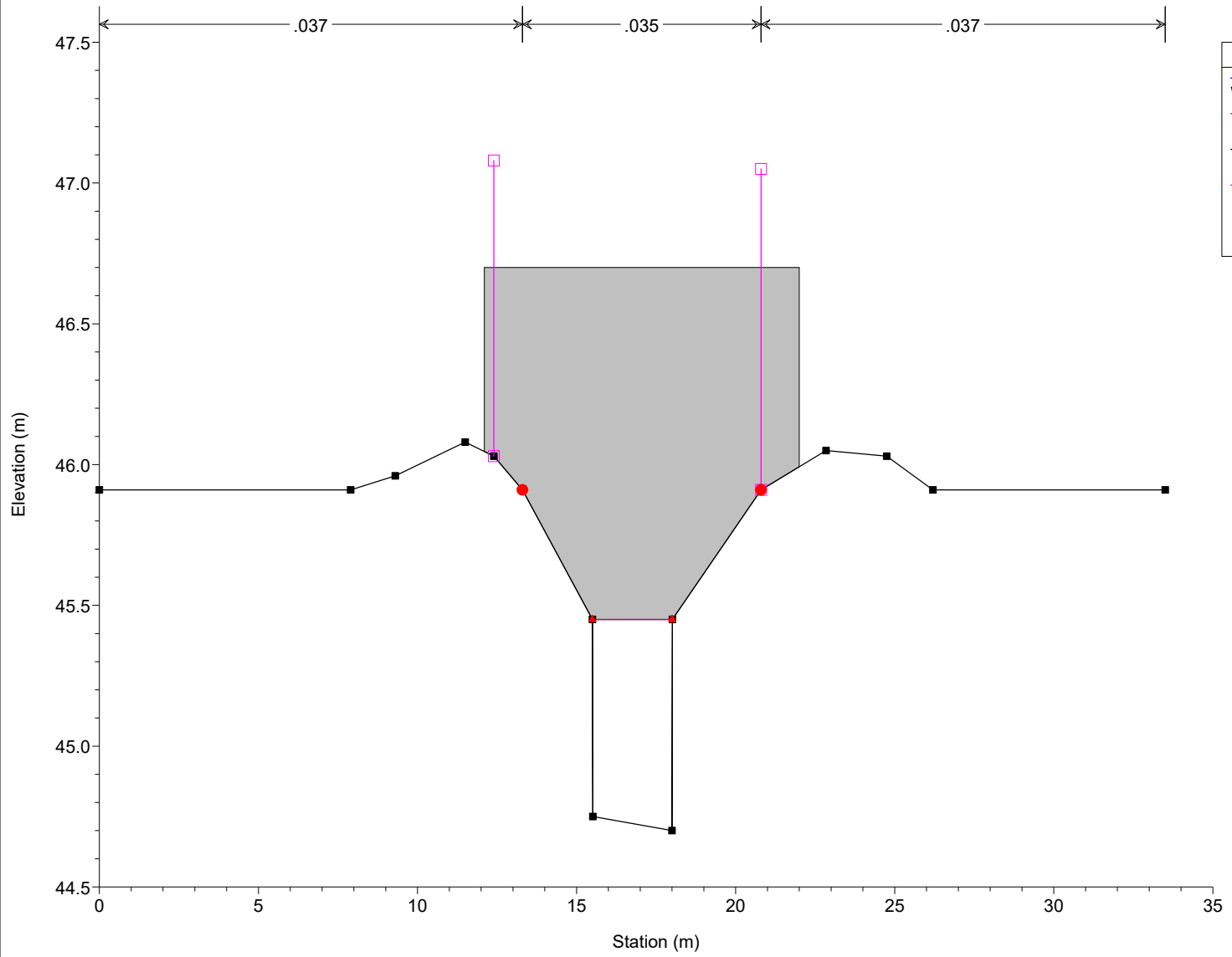
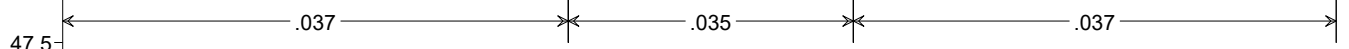
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 7.5 BR Ponte Sanminiatese esistente



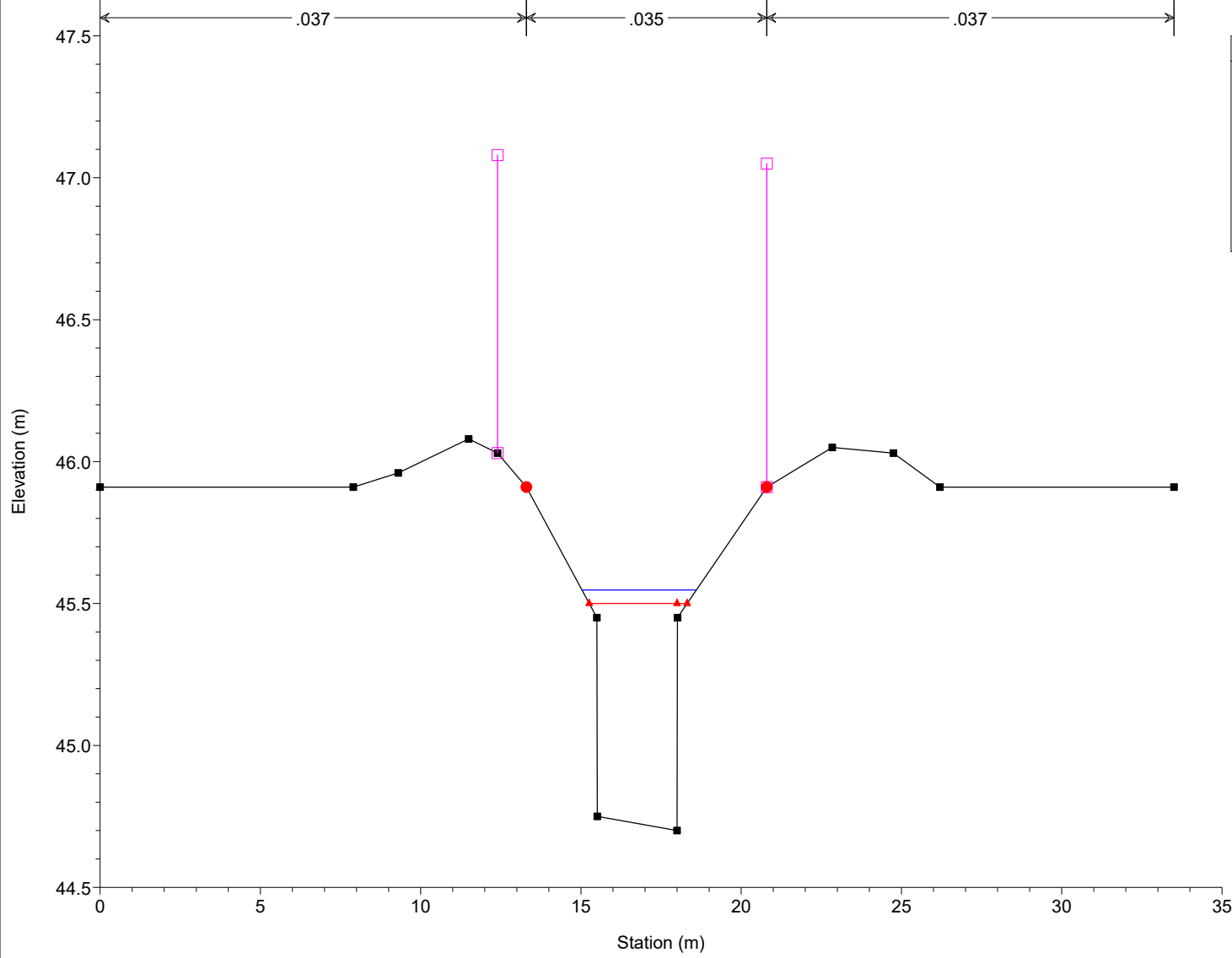
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 7.5 BR Ponte Sanminiatese esistente



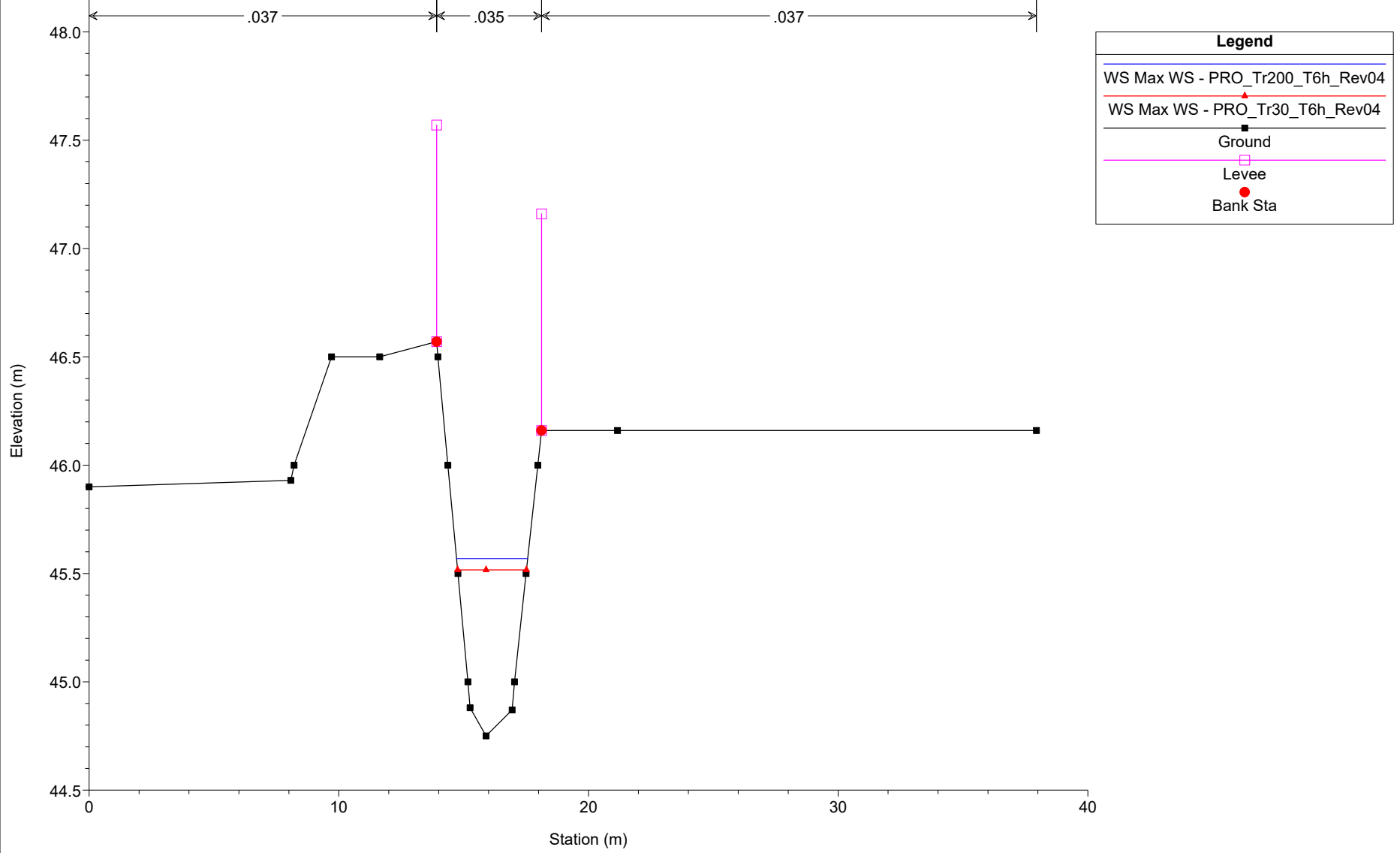
Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	▲
WS Max WS - PRO_Tr30_T6h_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 7 PGR0004\_d



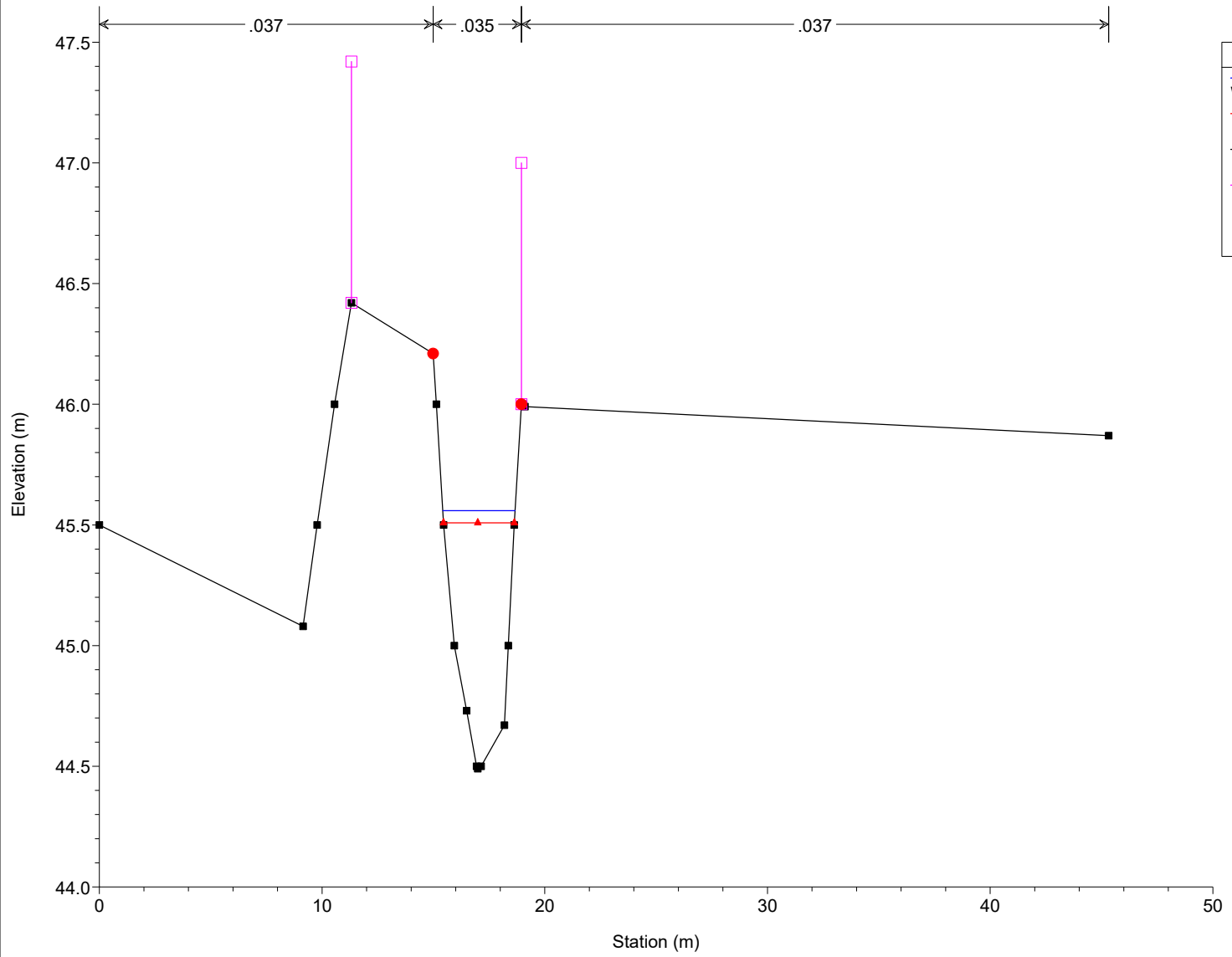
Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	
WS Max WS - PRO_Tr30_T6h_Rev04	
Ground	
Levee	
Bank Sta	

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 6



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

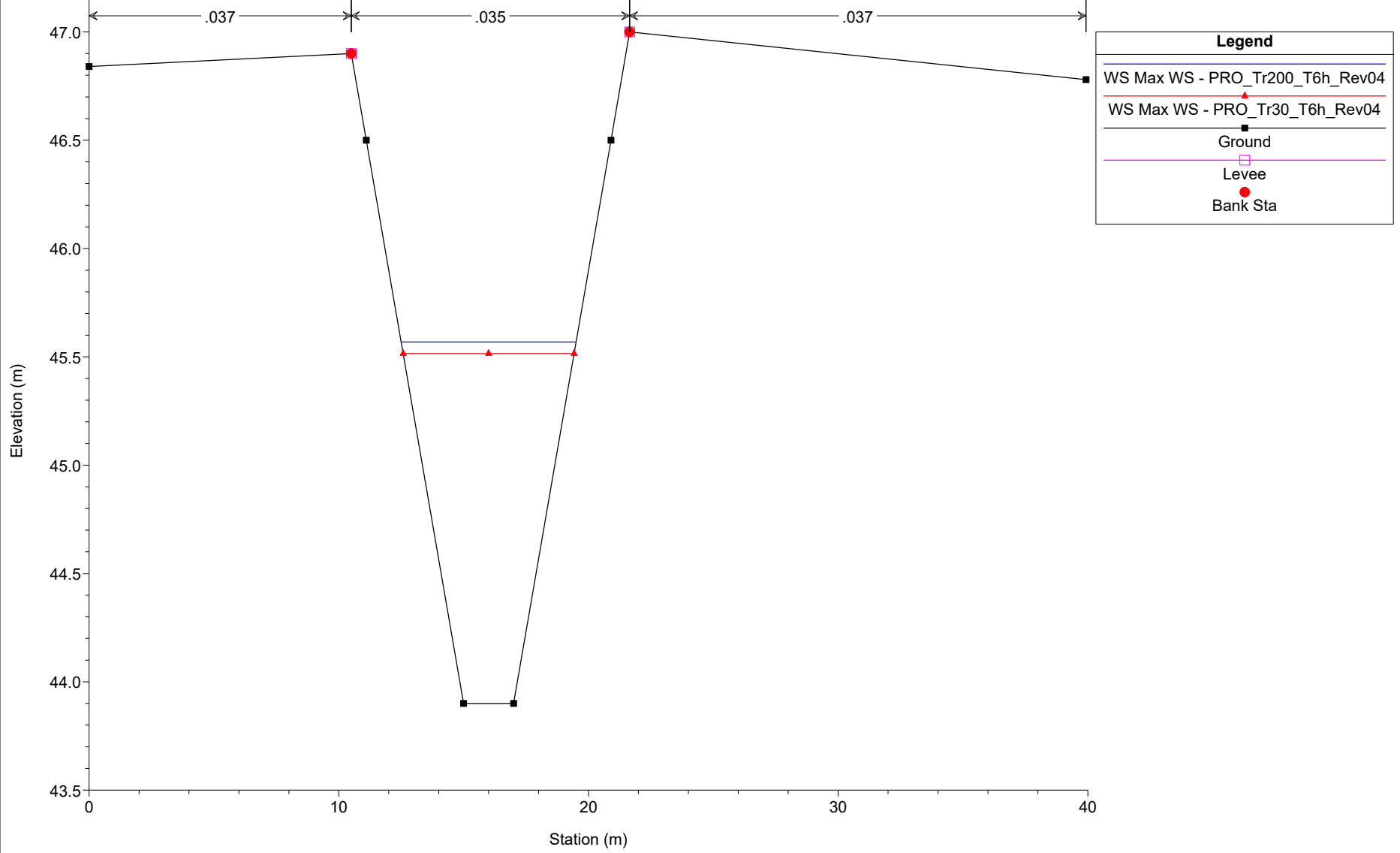
RS = 5



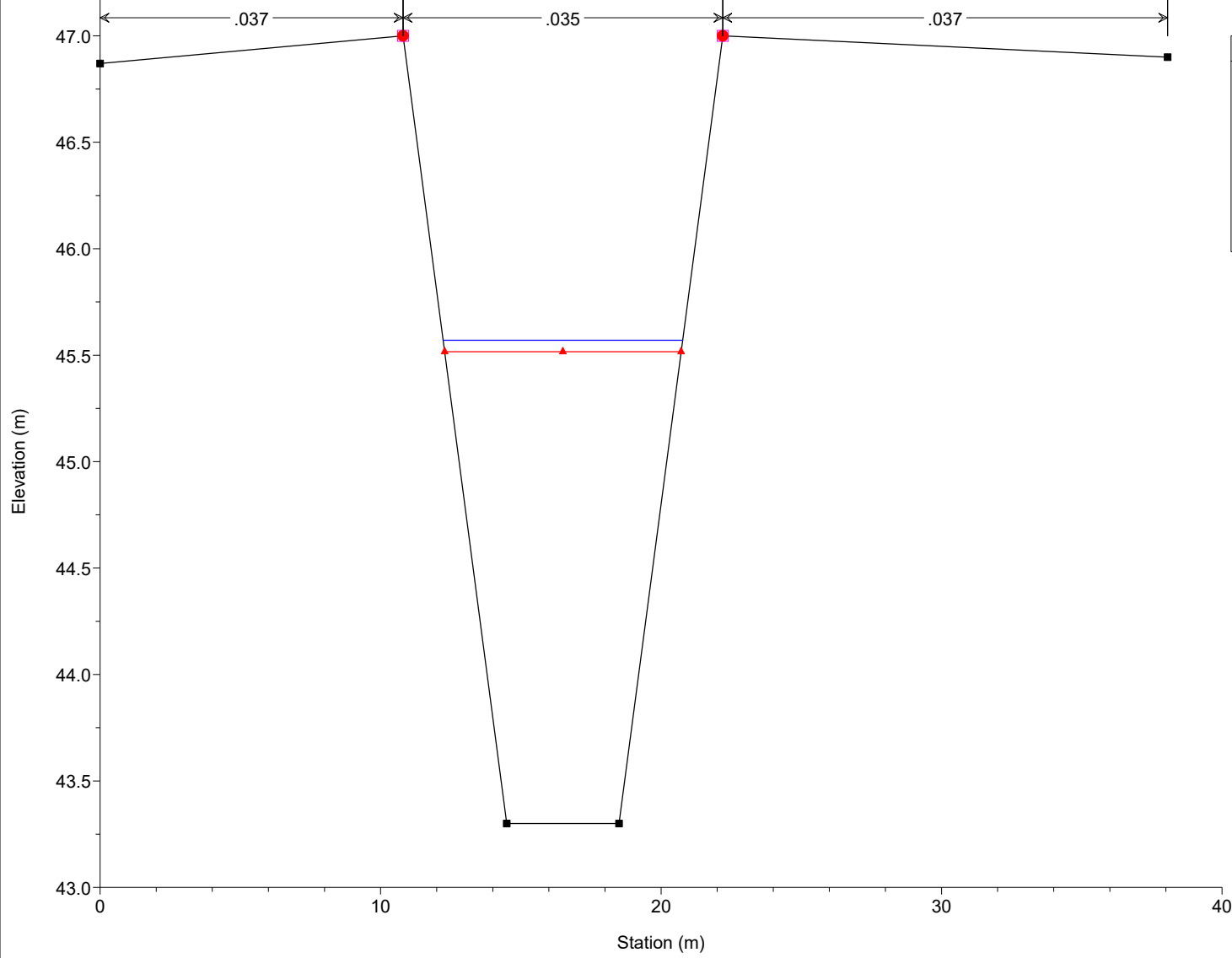
Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	▲
WS Max WS - PRO_Tr30_T6h_Rev04	▲
Ground	■
Levee	□
Bank Sta	●

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 4



GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
RS = 3

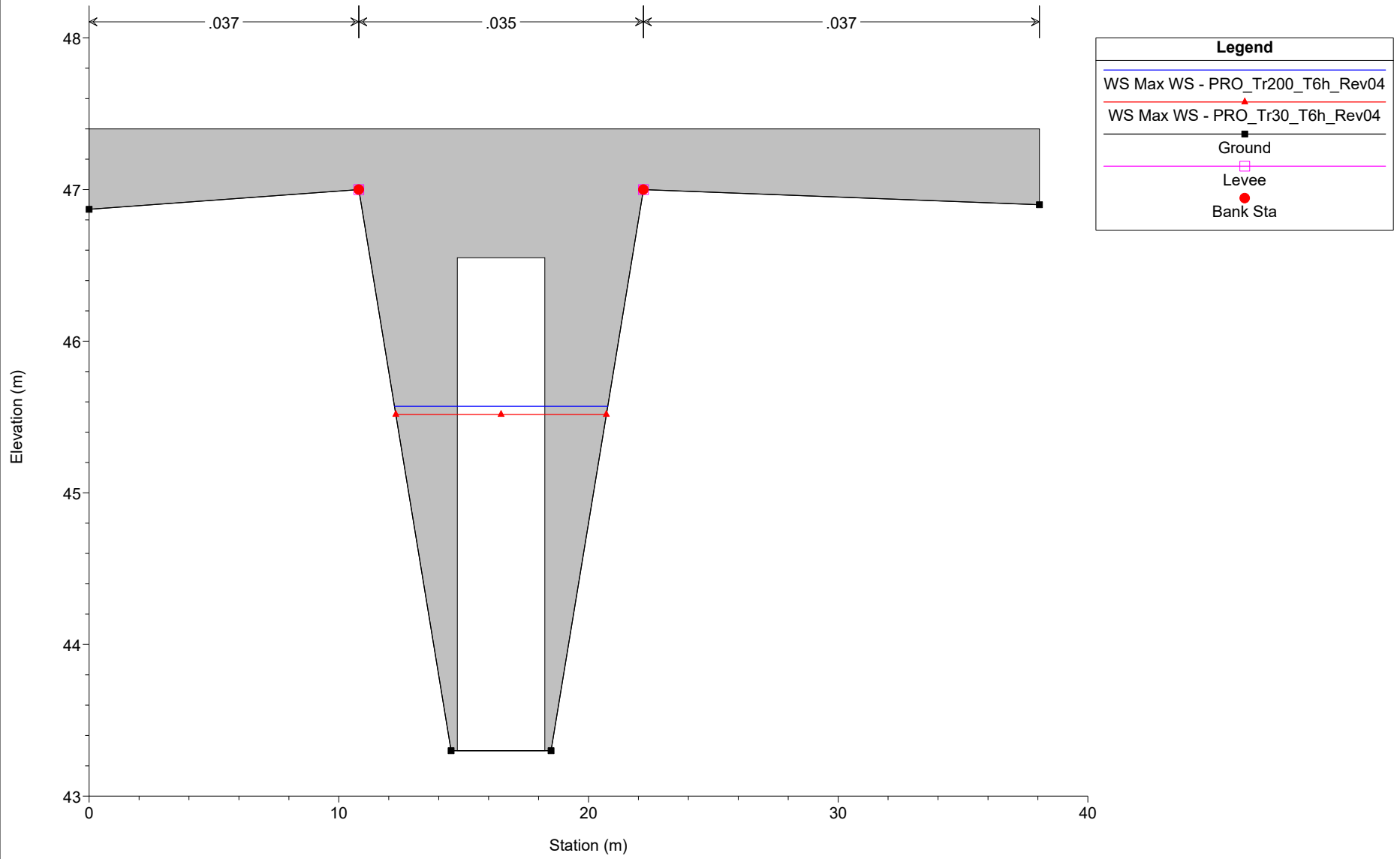


**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

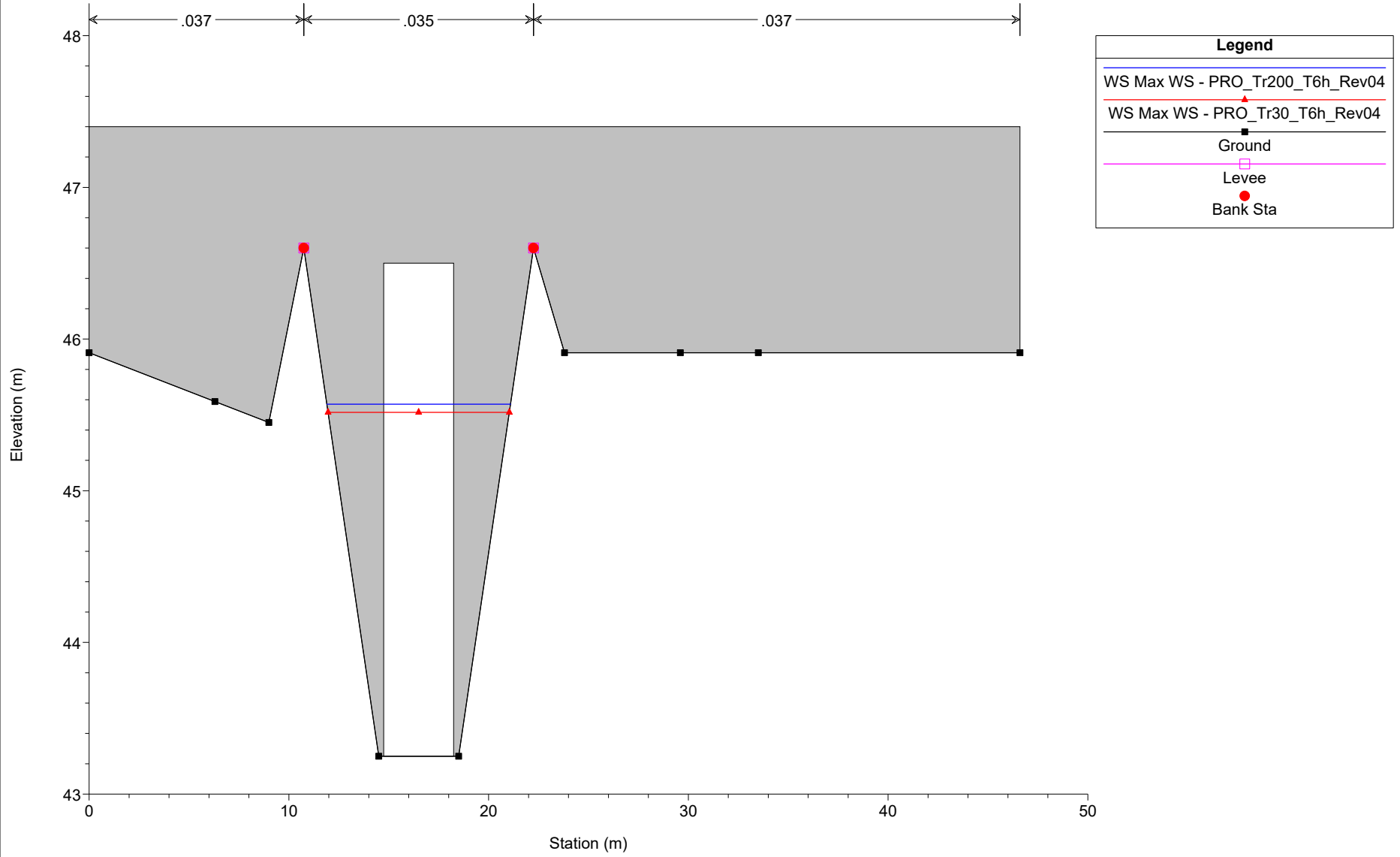
RS = 2.5 Culv Ponte sr429



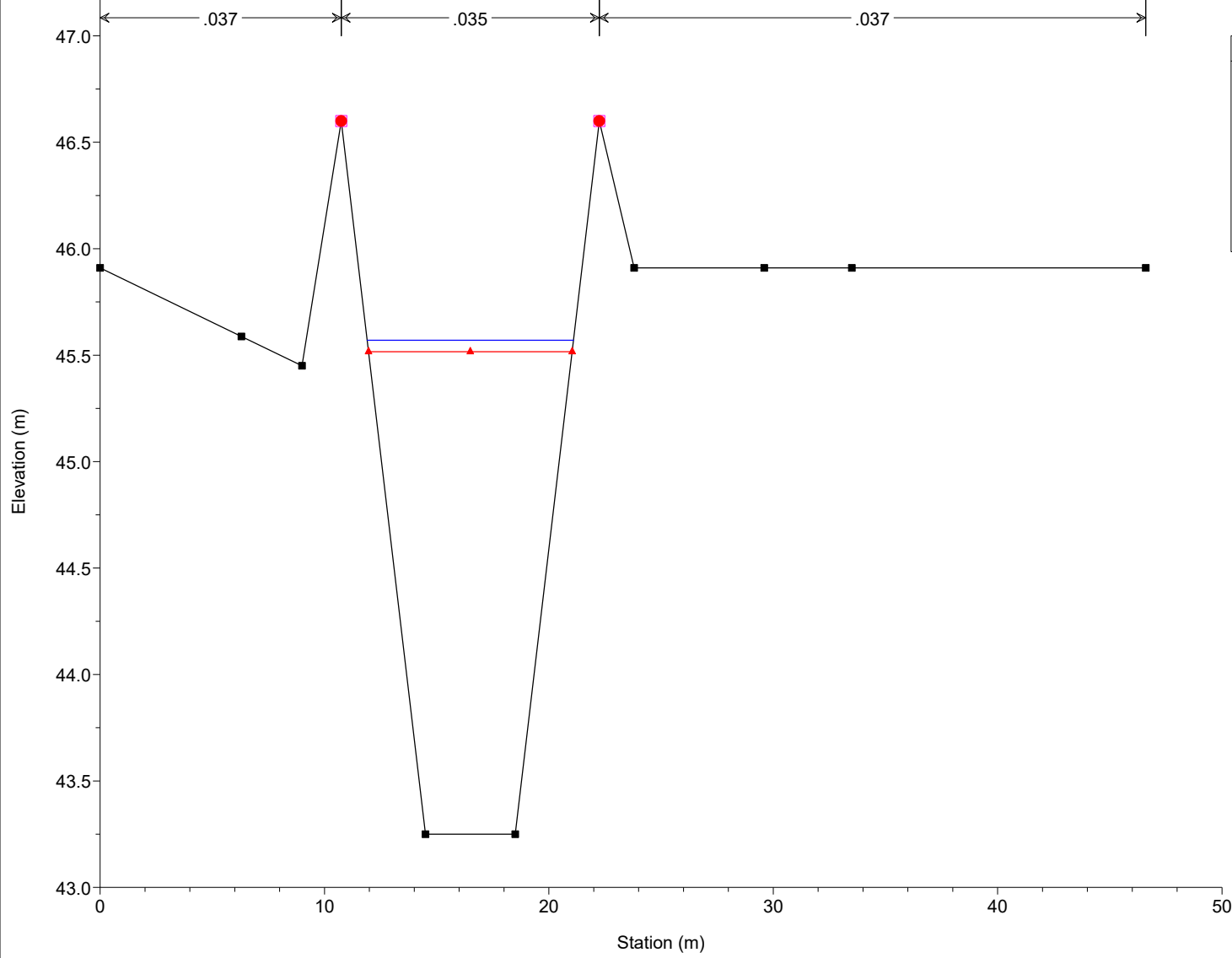


GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021

RS = 2.5 Culv Ponte sr429



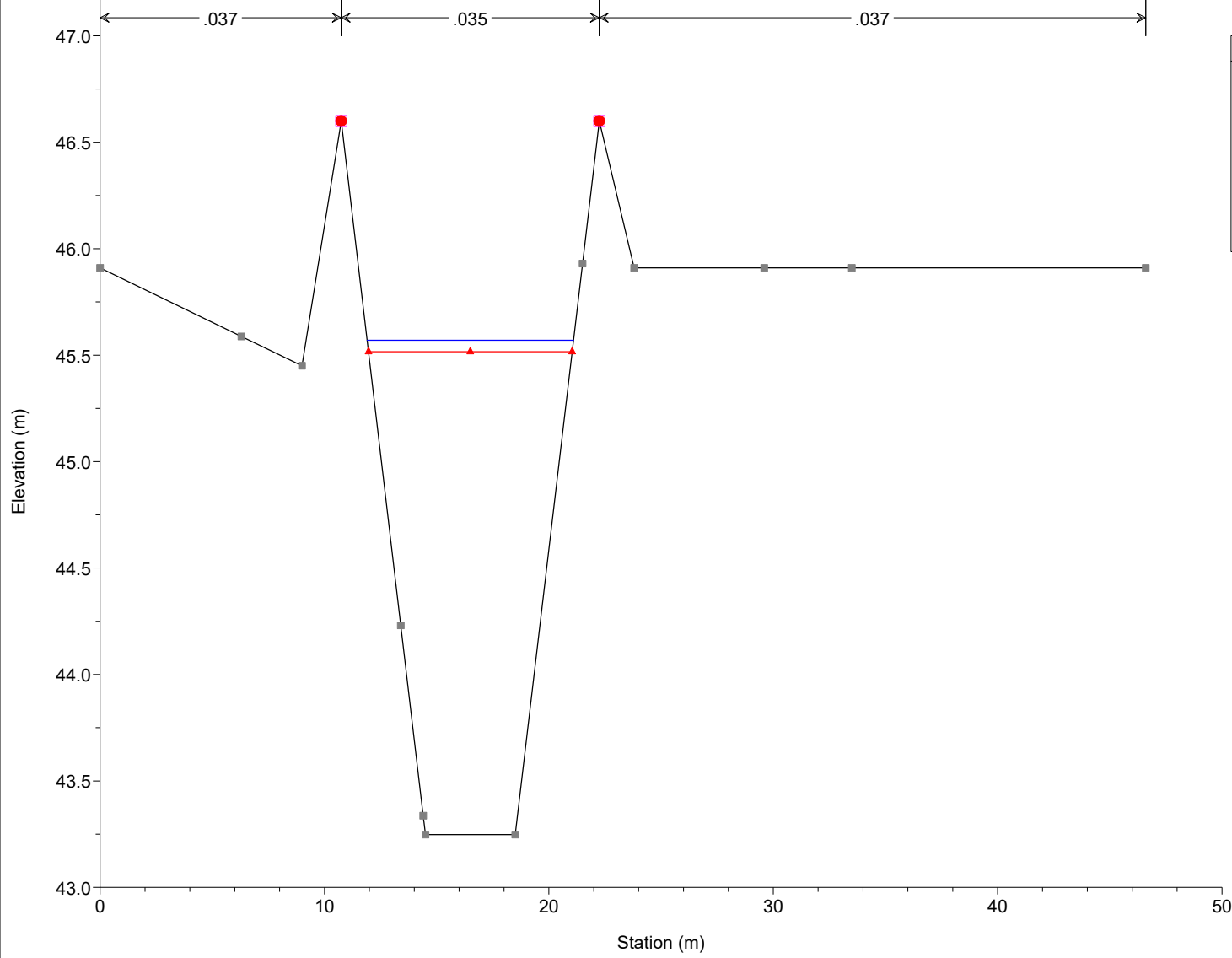
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
RS = 2 PGR0007\_c



**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta

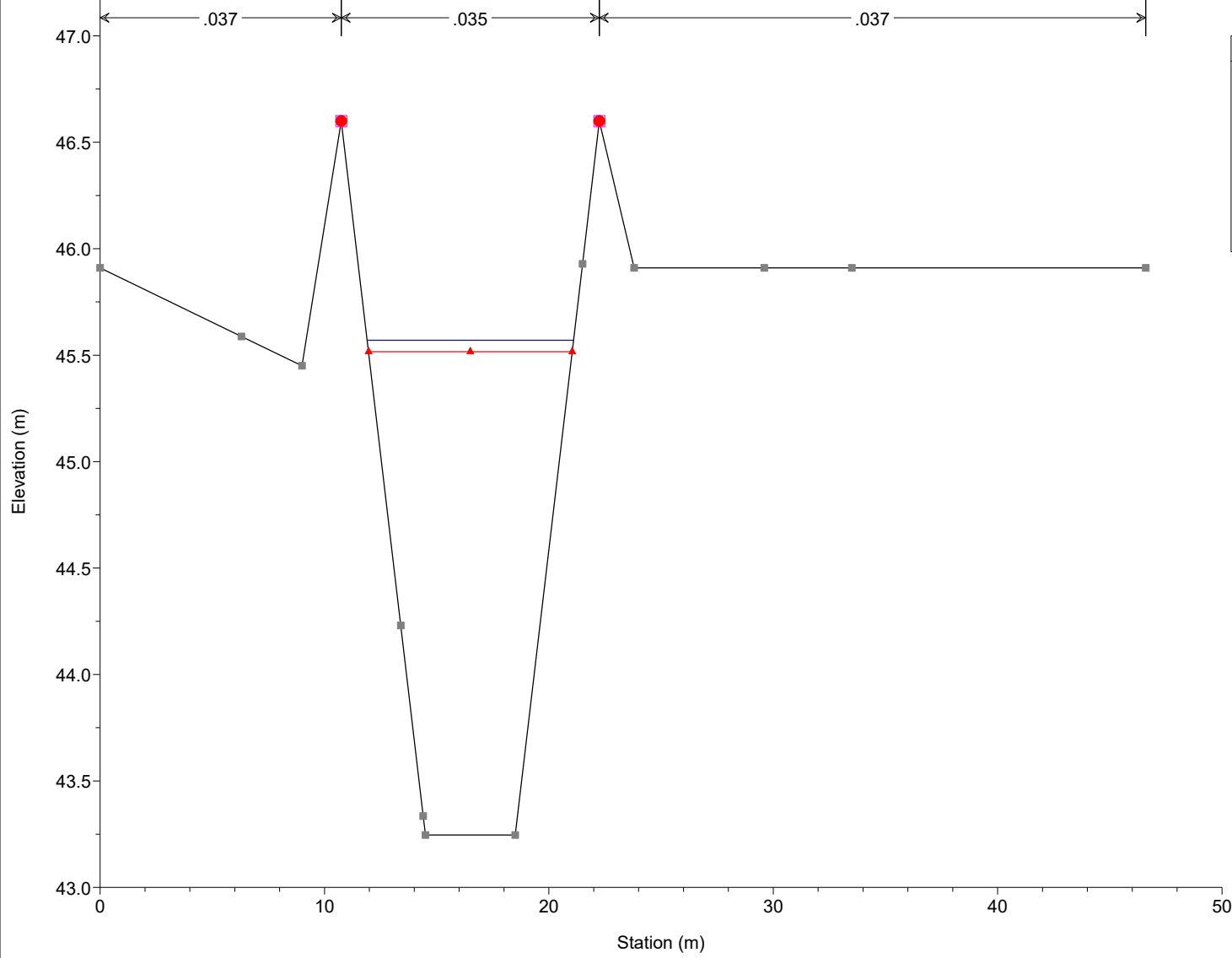
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 1.8000\*



**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta

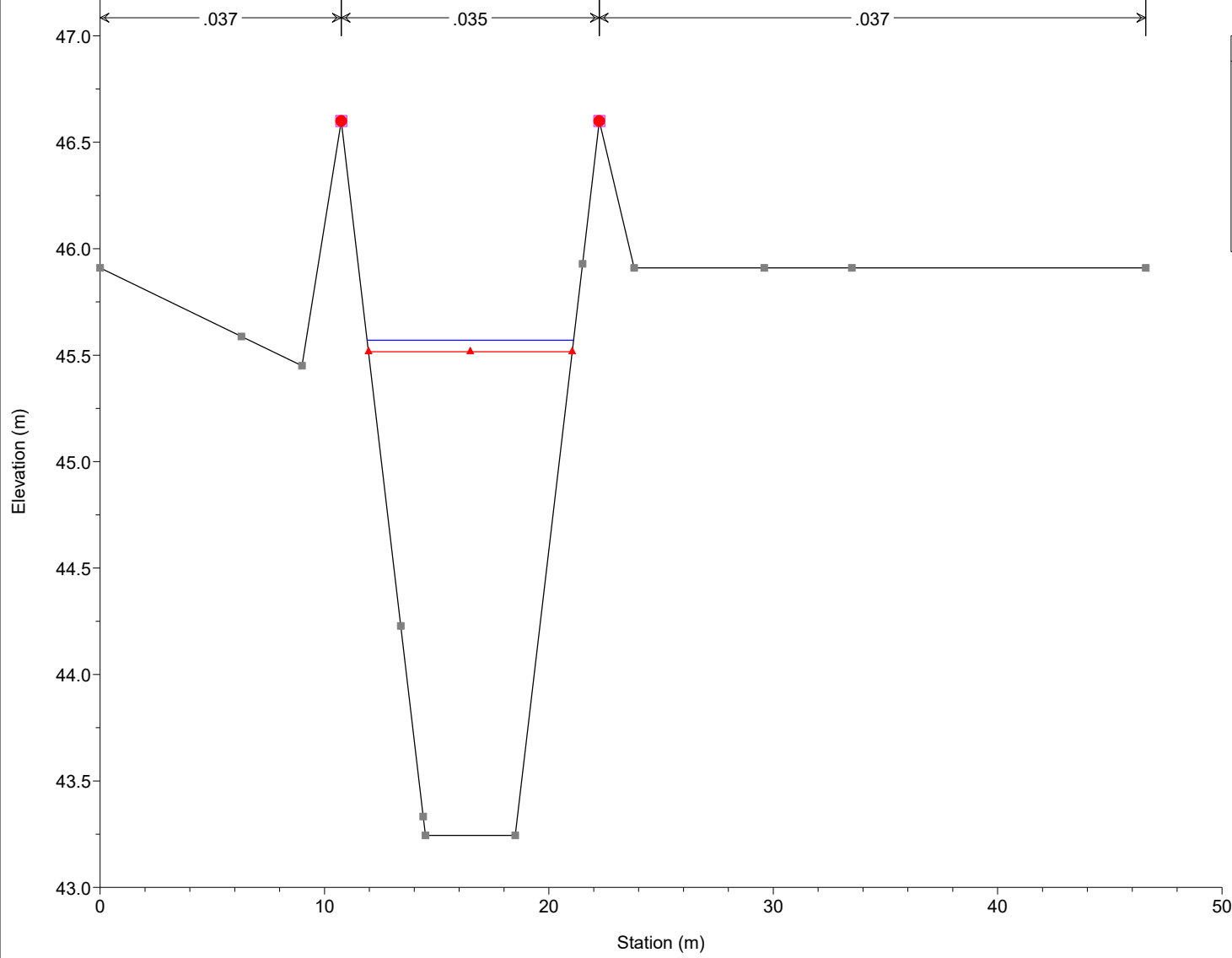
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 1.6000\*



**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta

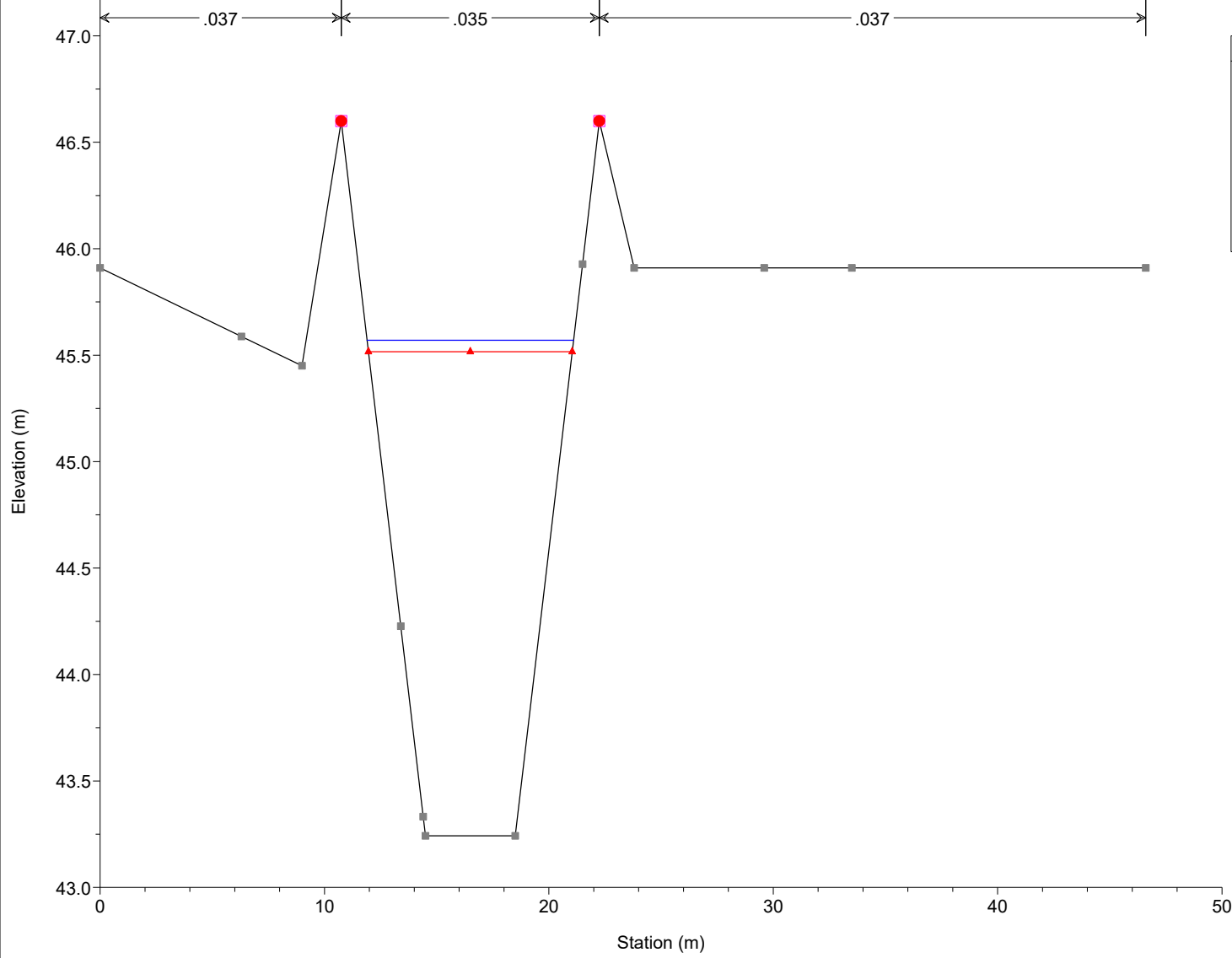
GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 1.4000\*



**Legend**

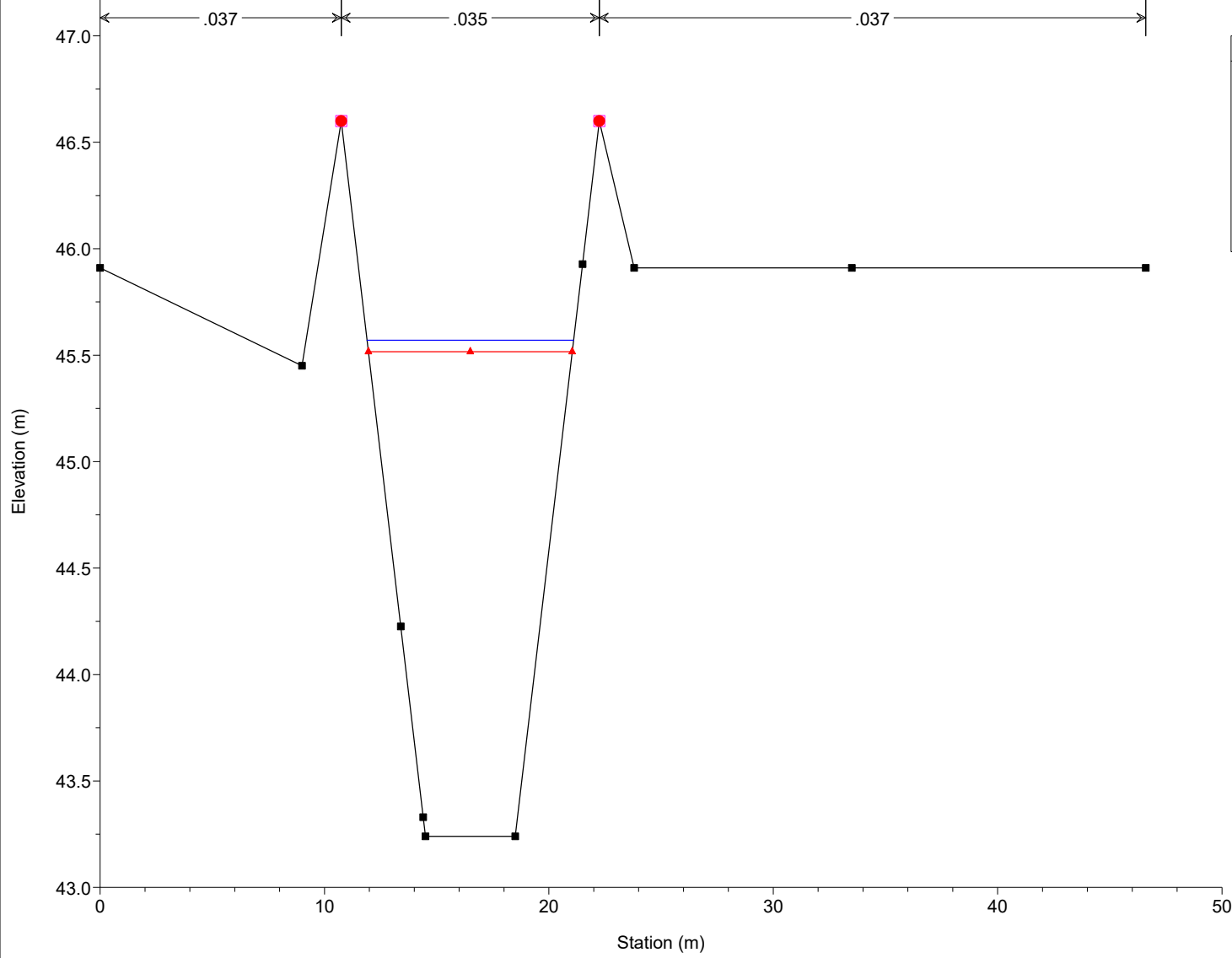
- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
 RS = 1.2000\*



Legend	
WS Max WS - PRO_Tr200_T6h_Rev04	
WS Max WS - PRO_Tr30_T6h_Rev04	
Ground	
Levee	
Bank Sta	

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr200\_T6h\_Rev04 8/30/2021 2) PRO\_Tr30\_T6h\_Rev04 8/27/2021  
RS = 1 PGR0007\_d



**Legend**

- WS Max WS - PRO\_Tr200\_T6h\_Rev04
- WS Max WS - PRO\_Tr30\_T6h\_Rev04
- Ground
- Levee
- Bank Sta





HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	15	Max WS	PRO_Tr200_T6h_Rev04	2.49	45.42	46.25		46.33	0.004539	1.22	2.03	3.22	0.49
Grignana	15	Max WS	PRO_Tr30_T6h_Rev04	1.94	45.42	46.16		46.23	0.004204	1.11	1.75	3.08	0.47
Grignana	14.9												
				Lat Struct									
Grignana	14.8												
				Lat Struct									
Grignana	14	Max WS	PRO_Tr200_T6h_Rev04	2.39	45.20	46.13		46.17	0.003071	0.93	2.56	5.08	0.42
Grignana	14	Max WS	PRO_Tr30_T6h_Rev04	1.94	45.20	46.02		46.07	0.003348	0.94	2.05	4.29	0.44
Grignana	13	Max WS	PRO_Tr200_T6h_Rev04	2.39	45.05	46.01		46.05	0.002677	0.97	2.46	3.95	0.39
Grignana	13	Max WS	PRO_Tr30_T6h_Rev04	1.94	45.05	45.89		45.94	0.003243	0.97	2.00	3.88	0.43
Grignana	12	Max WS	PRO_Tr200_T6h_Rev04	2.42	44.94	45.88		45.92	0.003338	0.91	2.67	6.05	0.44
Grignana	12	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.94	45.75		45.80	0.003133	0.96	2.03	3.95	0.43
Grignana	11	Max WS	PRO_Tr200_T6h_Rev04	2.47	44.62	45.80		45.83	0.001748	0.82	2.99	4.52	0.32
Grignana	11	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.62	45.68		45.71	0.001622	0.77	2.52	3.99	0.31
Grignana	10	Max WS	PRO_Tr200_T6h_Rev04	2.46	44.65	45.72		45.76	0.001490	0.80	3.06	4.20	0.30
Grignana	10	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.65	45.62		45.65	0.001402	0.74	2.64	3.99	0.29
Grignana	9	Max WS	PRO_Tr200_T6h_Rev04	2.45	44.61	45.68		45.71	0.001527	0.76	3.21	4.80	0.30
Grignana	9	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.61	45.58		45.60	0.001452	0.71	2.75	4.43	0.29
Grignana	8	Max WS	PRO_Tr200_T6h_Rev04	2.45	44.60	45.67	45.07	45.70	0.001205	0.70	3.51	4.80	0.26
Grignana	8	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.60	45.57	44.99	45.60	0.001106	0.64	3.05	4.48	0.25
Grignana	7.5												
				Bridge									
Grignana	7	Max WS	PRO_Tr200_T6h_Rev04	2.45	44.60	45.55		45.60	0.003545	1.01	2.42	3.57	0.39
Grignana	7	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.60	45.50		45.54	0.002412	0.86	2.27	3.06	0.32
Grignana	6	Max WS	PRO_Tr200_T6h_Rev04	2.45	44.50	45.57		45.59	0.000868	0.64	3.85	5.21	0.24
Grignana	6	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.50	45.52		45.53	0.000663	0.54	3.58	5.05	0.21
Grignana	5.9												
				Lat Struct									
Grignana	5.8												
				Lat Struct									
Grignana	5	Max WS	PRO_Tr200_T6h_Rev04	2.45	44.10	45.56		45.57	0.000249	0.40	6.11	6.38	0.13

HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

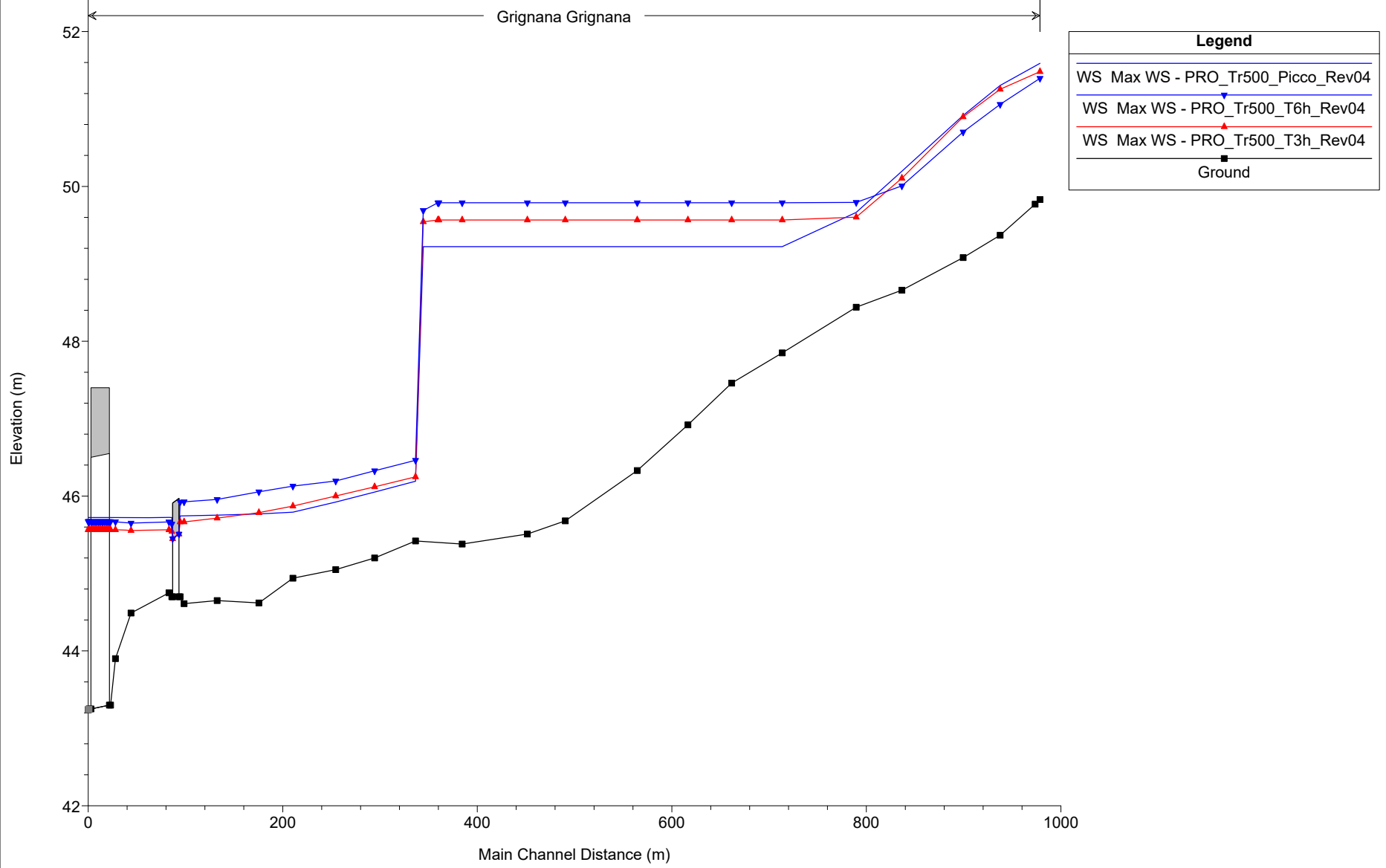
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Grignana	5	Max WS	PRO_Tr30_T6h_Rev04	1.94	44.10	45.51		45.51	0.000180	0.34	5.79	6.23	0.11
Grignana	4.9			Lat Struct									
Grignana	4	Max WS	PRO_Tr200_T6h_Rev04	1.23	43.90	45.57		45.57	0.000036	0.16	7.51	7.01	0.05
Grignana	4	Max WS	PRO_Tr30_T6h_Rev04	0.97	43.90	45.52		45.52	0.000026	0.14	7.14	6.85	0.04
Grignana	3	Max WS	PRO_Tr200_T6h_Rev04	0.00	43.30	45.57		45.57	0.000000	0.00	14.24	8.54	0.00
Grignana	3	Max WS	PRO_Tr30_T6h_Rev04	0.00	43.30	45.52		45.52	0.000000	0.00	13.78	8.43	0.00
Grignana	2.5			Culvert									
Grignana	2	Max WS	PRO_Tr200_T6h_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.31	9.20	0.00
Grignana	2	Max WS	PRO_Tr30_T6h_Rev04	0.00	43.25	45.52		45.52	0.000000	0.00	14.82	9.07	0.00
Grignana	1.8000*	Max WS	PRO_Tr200_T6h_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.32	9.20	0.00
Grignana	1.8000*	Max WS	PRO_Tr30_T6h_Rev04	0.00	43.25	45.52		45.52	0.000000	0.00	14.83	9.08	0.00
Grignana	1.6000*	Max WS	PRO_Tr200_T6h_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.34	9.20	0.00
Grignana	1.6000*	Max WS	PRO_Tr30_T6h_Rev04	0.00	43.25	45.52		45.52	0.000000	0.00	14.85	9.08	0.00
Grignana	1.4000*	Max WS	PRO_Tr200_T6h_Rev04	0.00	43.24	45.57		45.57	0.000000	0.00	15.35	9.20	0.00
Grignana	1.4000*	Max WS	PRO_Tr30_T6h_Rev04	0.00	43.24	45.52		45.52	0.000000	0.00	14.86	9.08	0.00
Grignana	1.2000*	Max WS	PRO_Tr200_T6h_Rev04	0.00	43.24	45.57		45.57	0.000000	0.00	15.37	9.20	0.00
Grignana	1.2000*	Max WS	PRO_Tr30_T6h_Rev04	0.00	43.24	45.52		45.52	0.000000	0.00	14.88	9.08	0.00
Grignana	1	Max WS	PRO_Tr200_T6h_Rev04	0.00	43.24	45.57	43.25	45.57	0.000000	0.00	15.38	9.20	0.00
Grignana	1	Max WS	PRO_Tr30_T6h_Rev04	0.00	43.24	45.52	43.25	45.52	0.000000	0.00	14.89	9.08	0.00

**Rio Grignana - Verifiche idrauliche moto vario stato di progetto –**

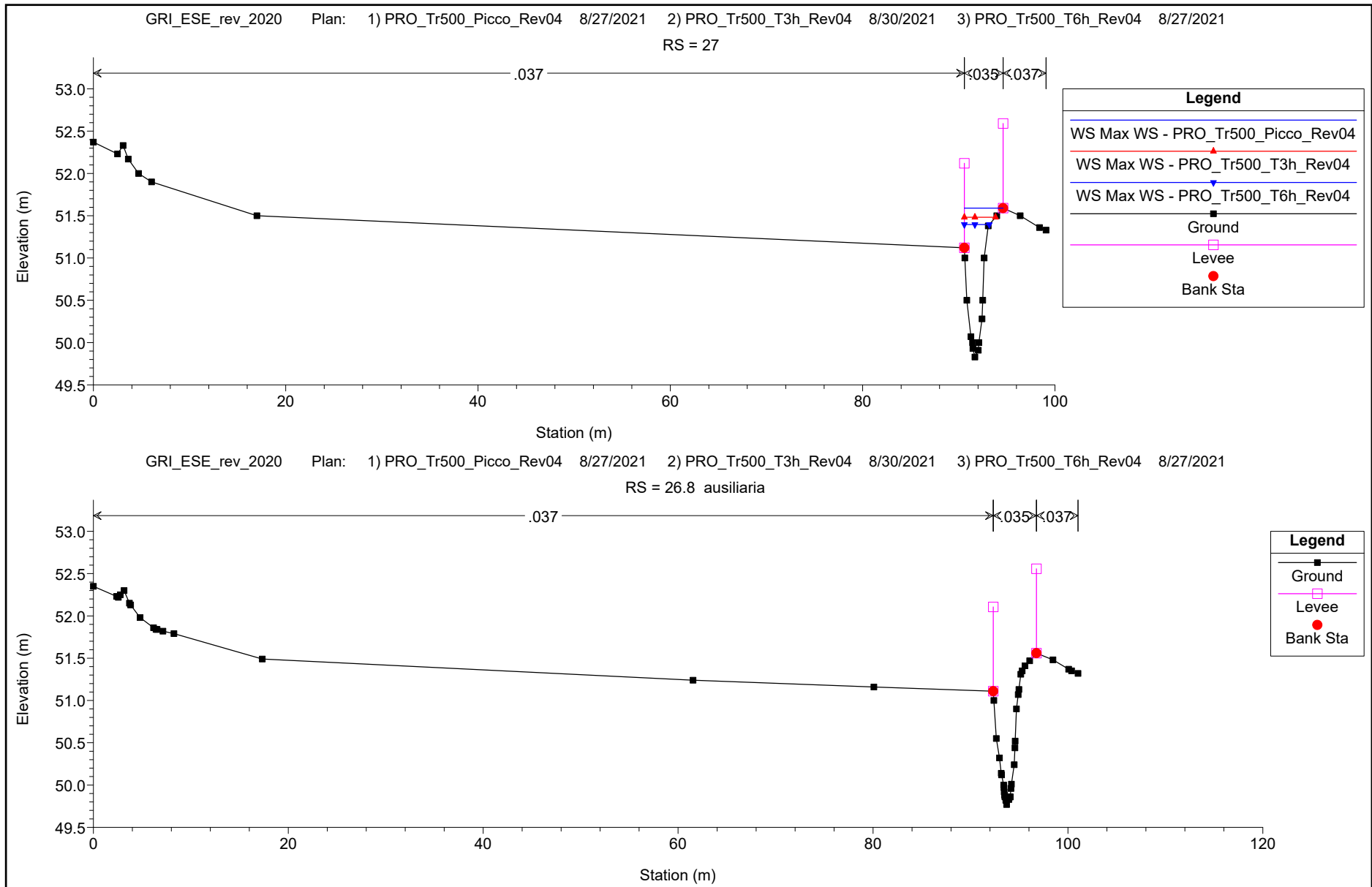
**Tr=500 – Tp critico, 3 e 6 ore**

GRI\_ESE\_rev\_2020 Plan: 1) PRO\_Tr500\_Picco\_Rev04 8/27/2021 2) PRO\_Tr500\_T3h\_Rev04 8/30/2021 3) PRO\_Tr500\_T6h\_Rev04 8/27/2021

Grignana Grignana

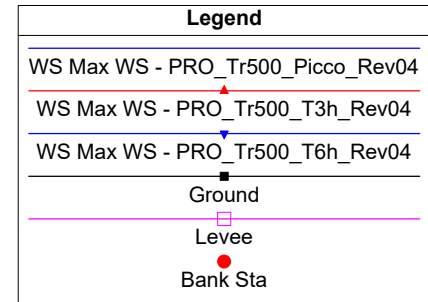
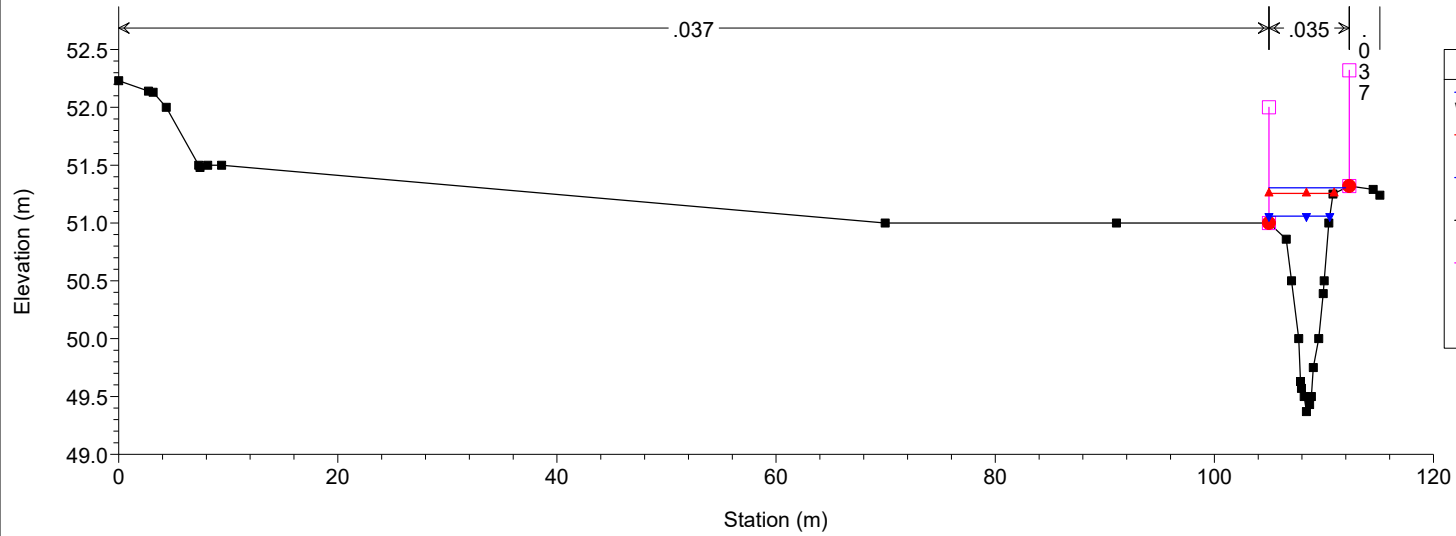


Legend	
WS Max WS - PRO_Tr500_Picco_Rev04	▼
WS Max WS - PRO_Tr500_T6h_Rev04	▲
WS Max WS - PRO_Tr500_T3h_Rev04	■
Ground	■



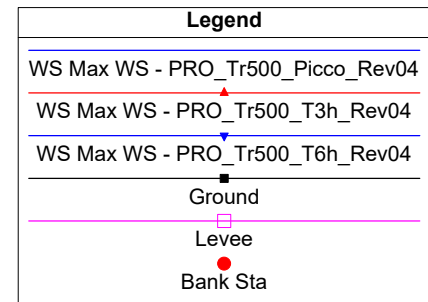
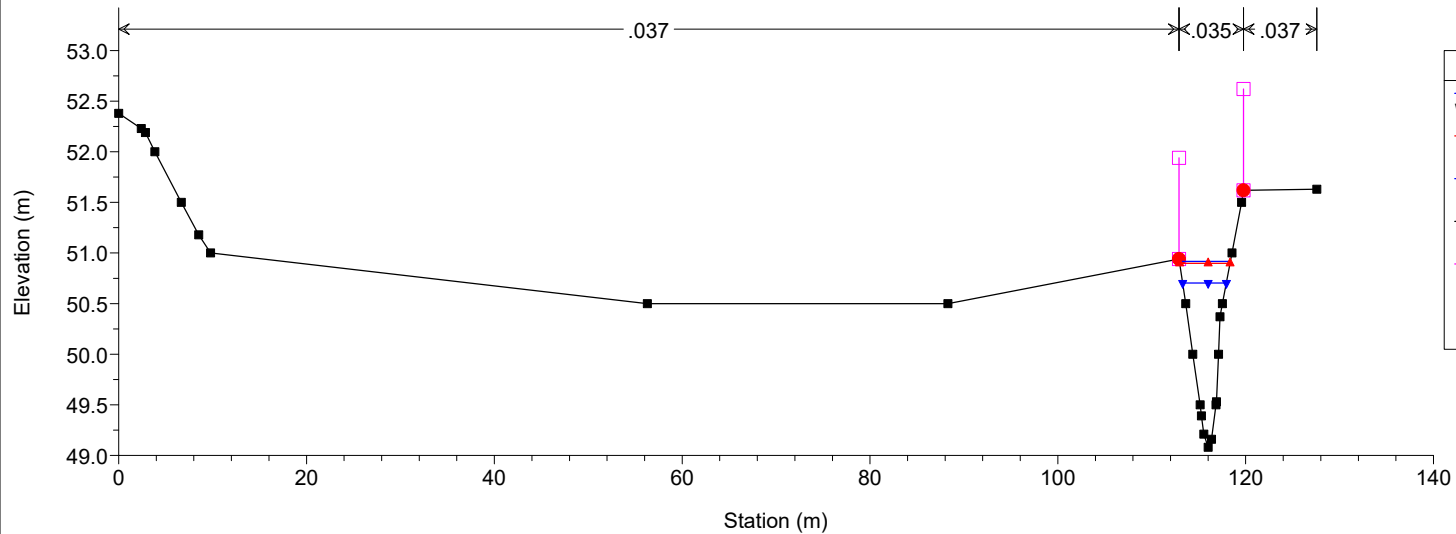
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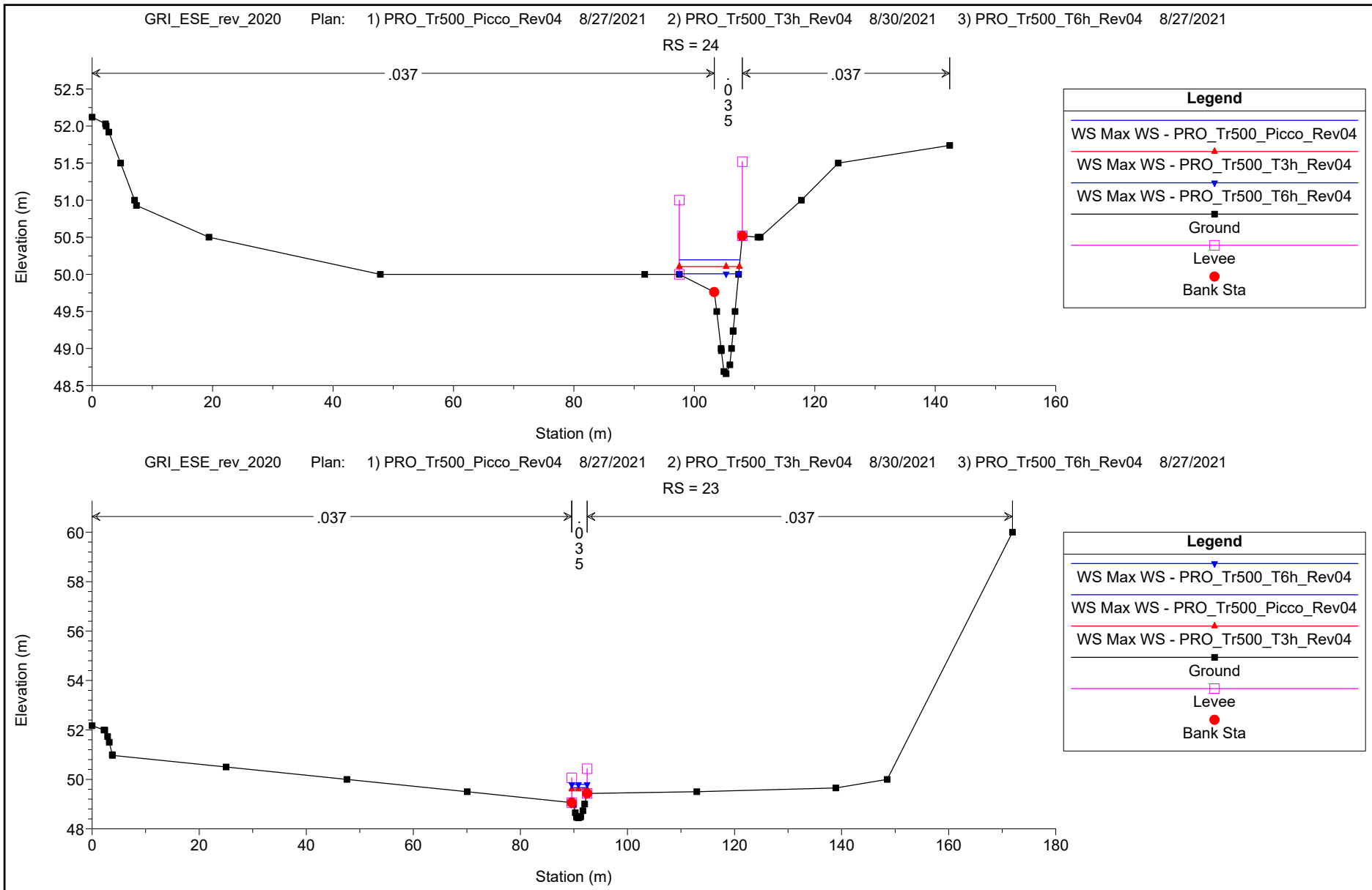
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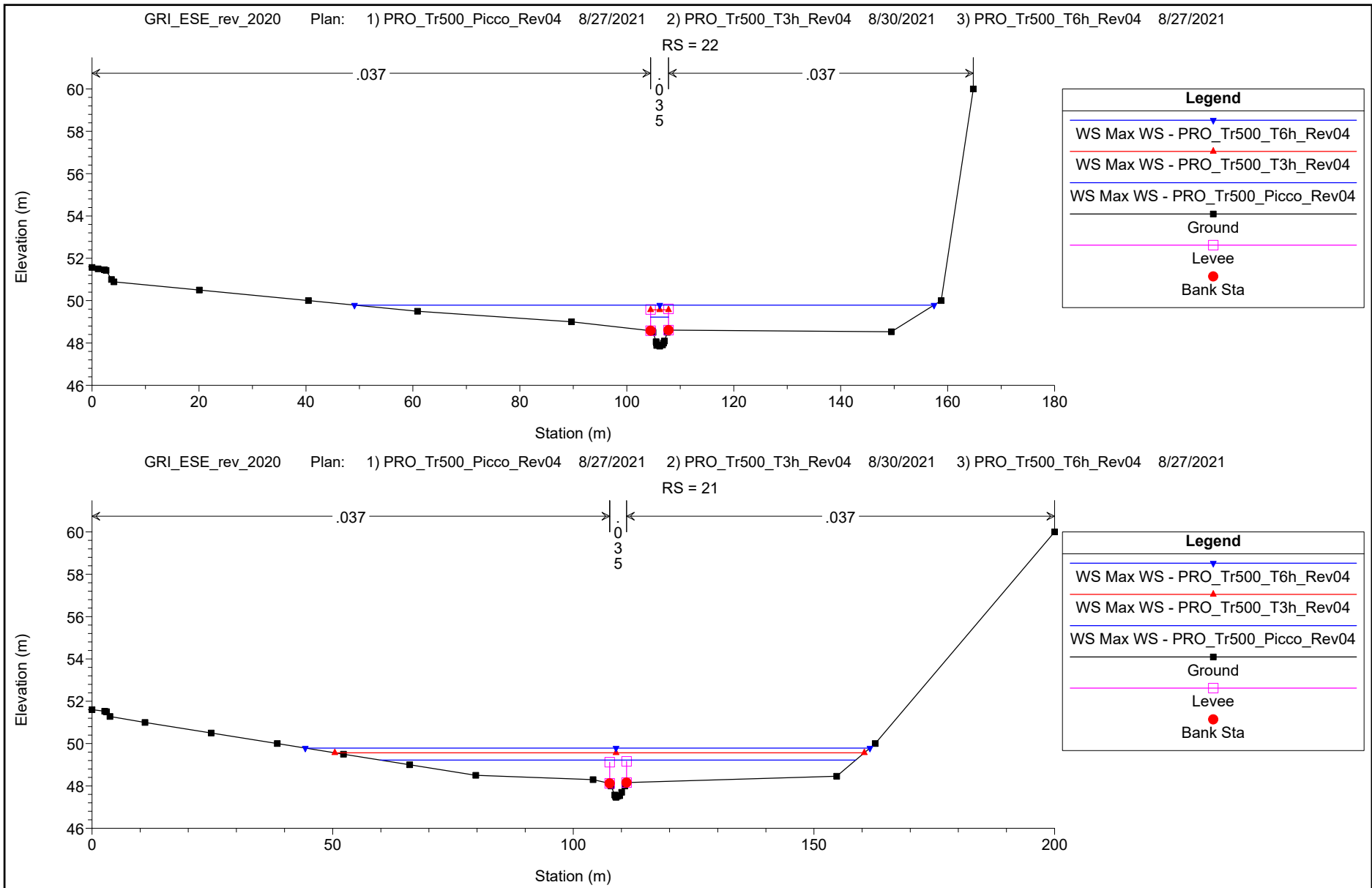


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RS = 25



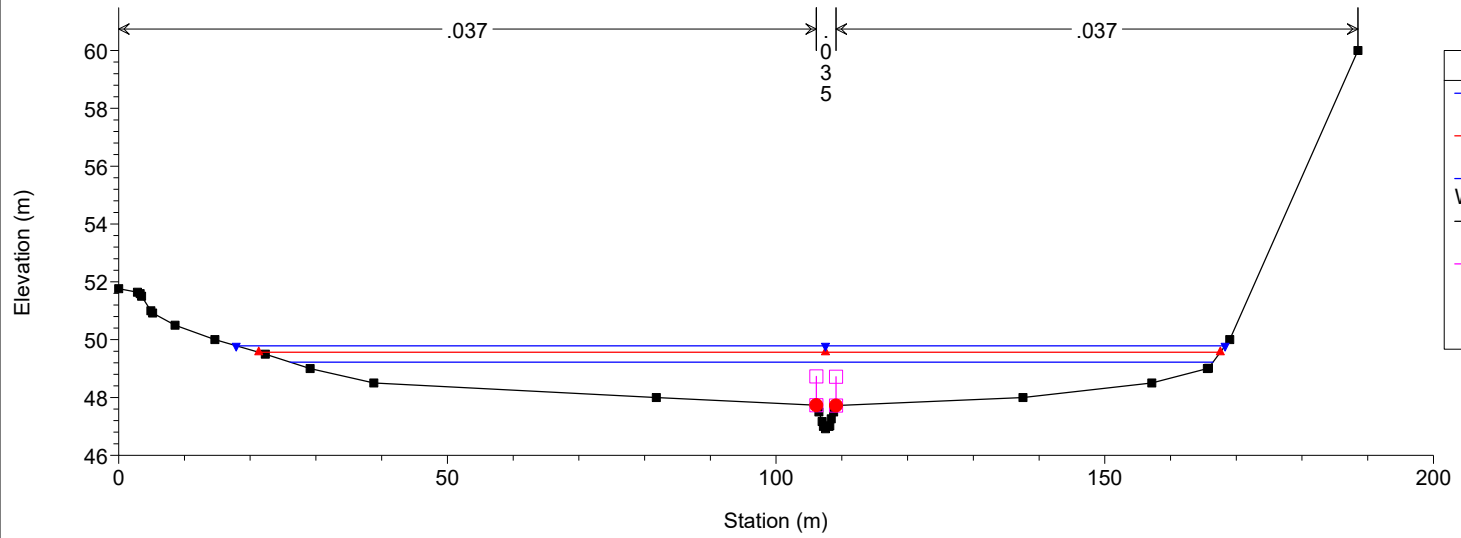






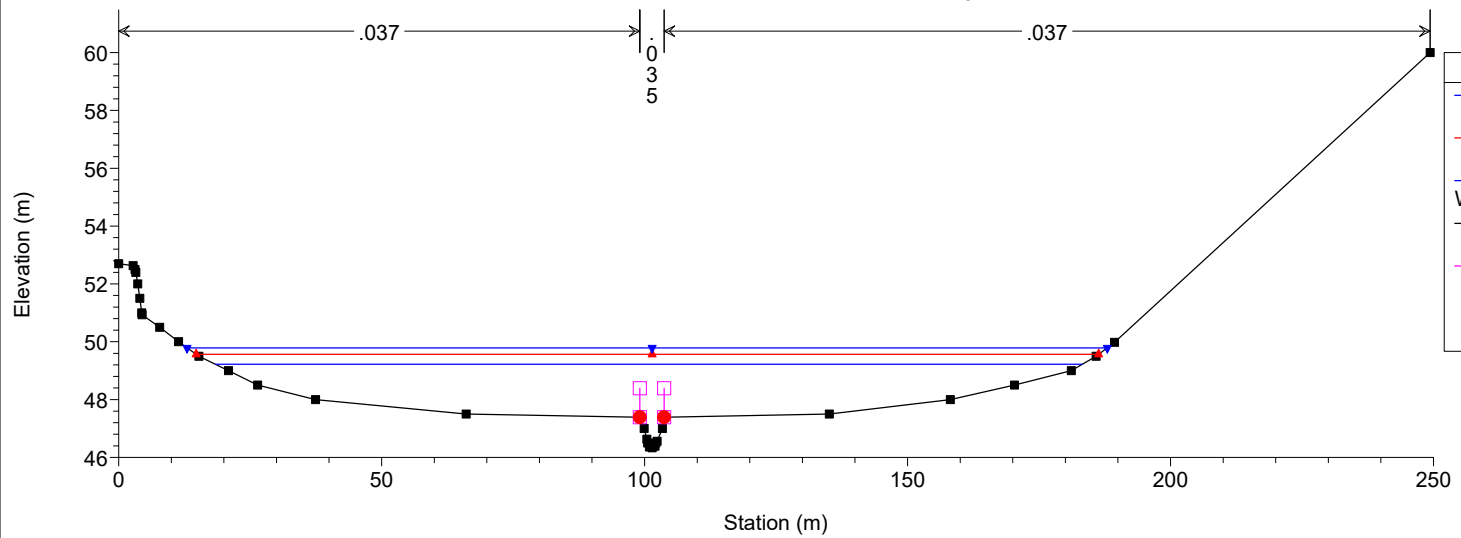
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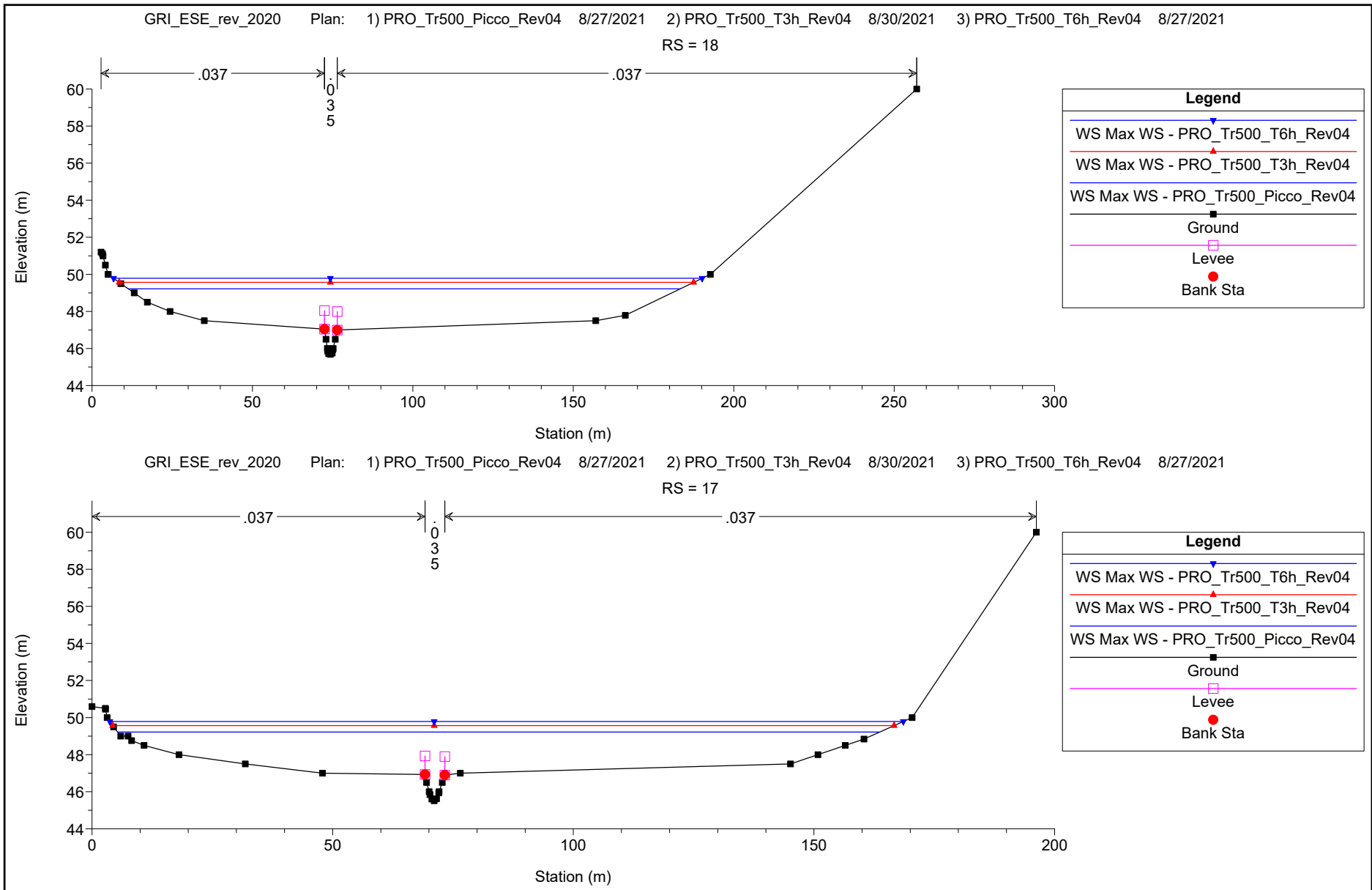
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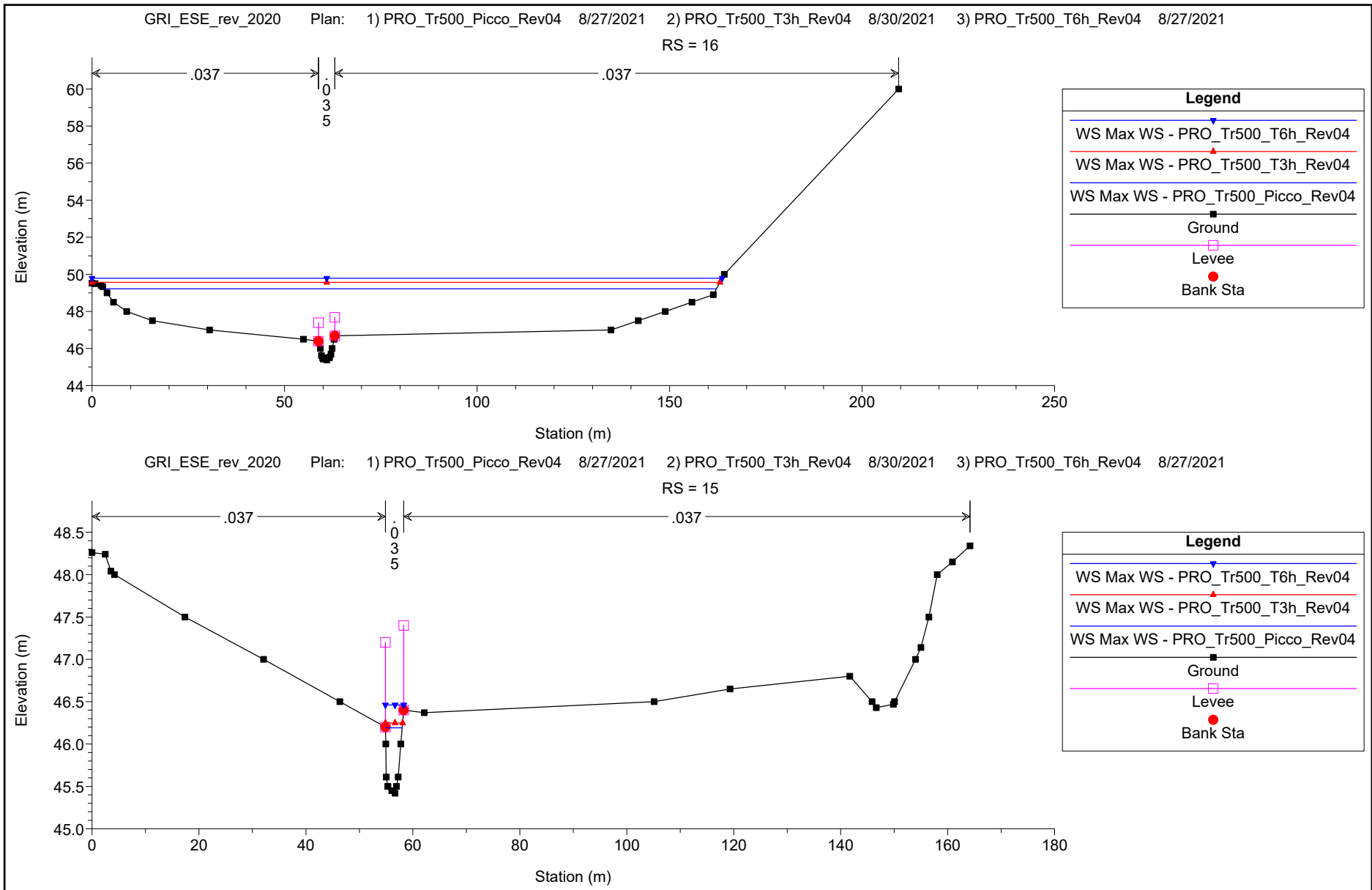


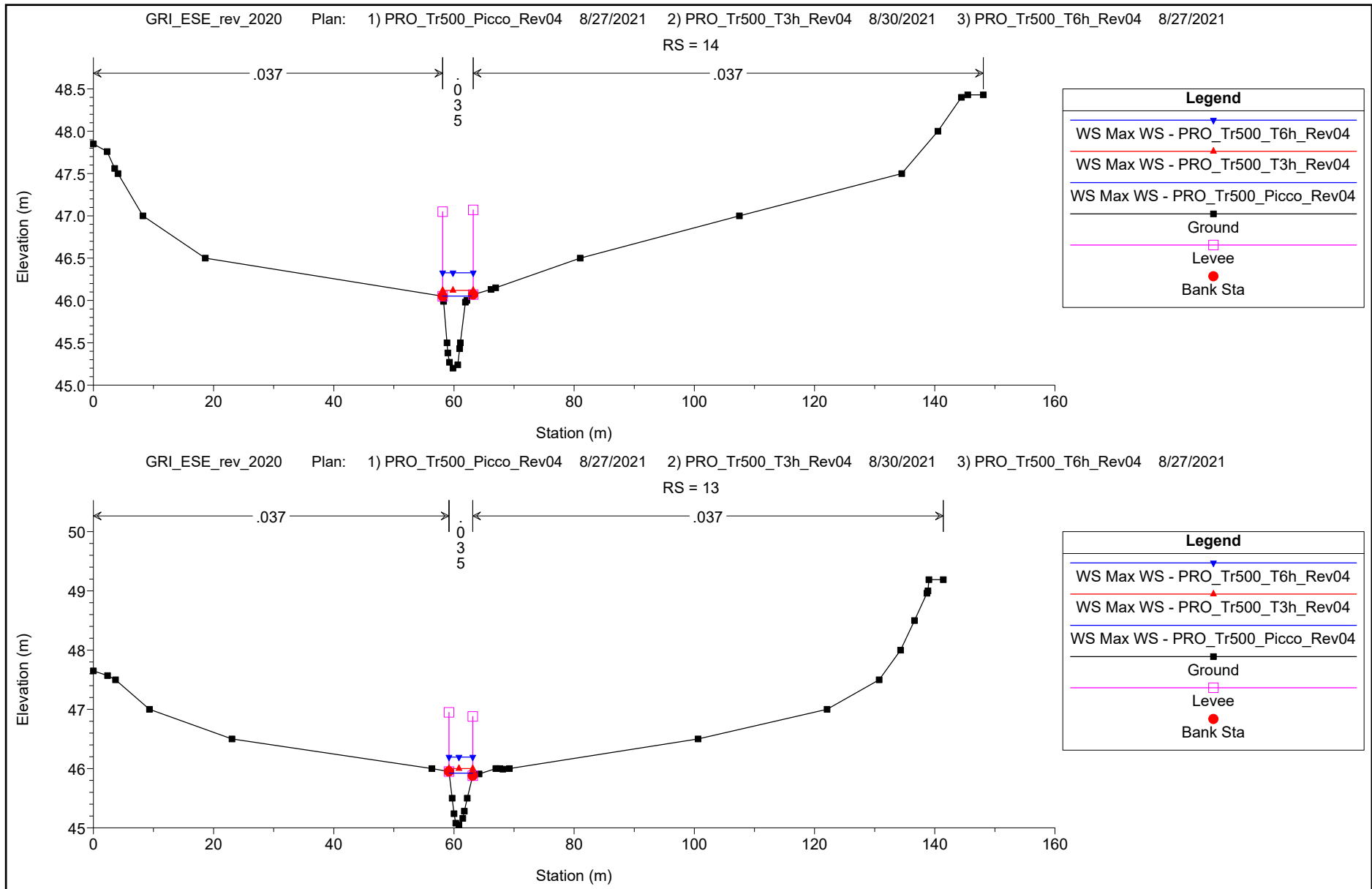
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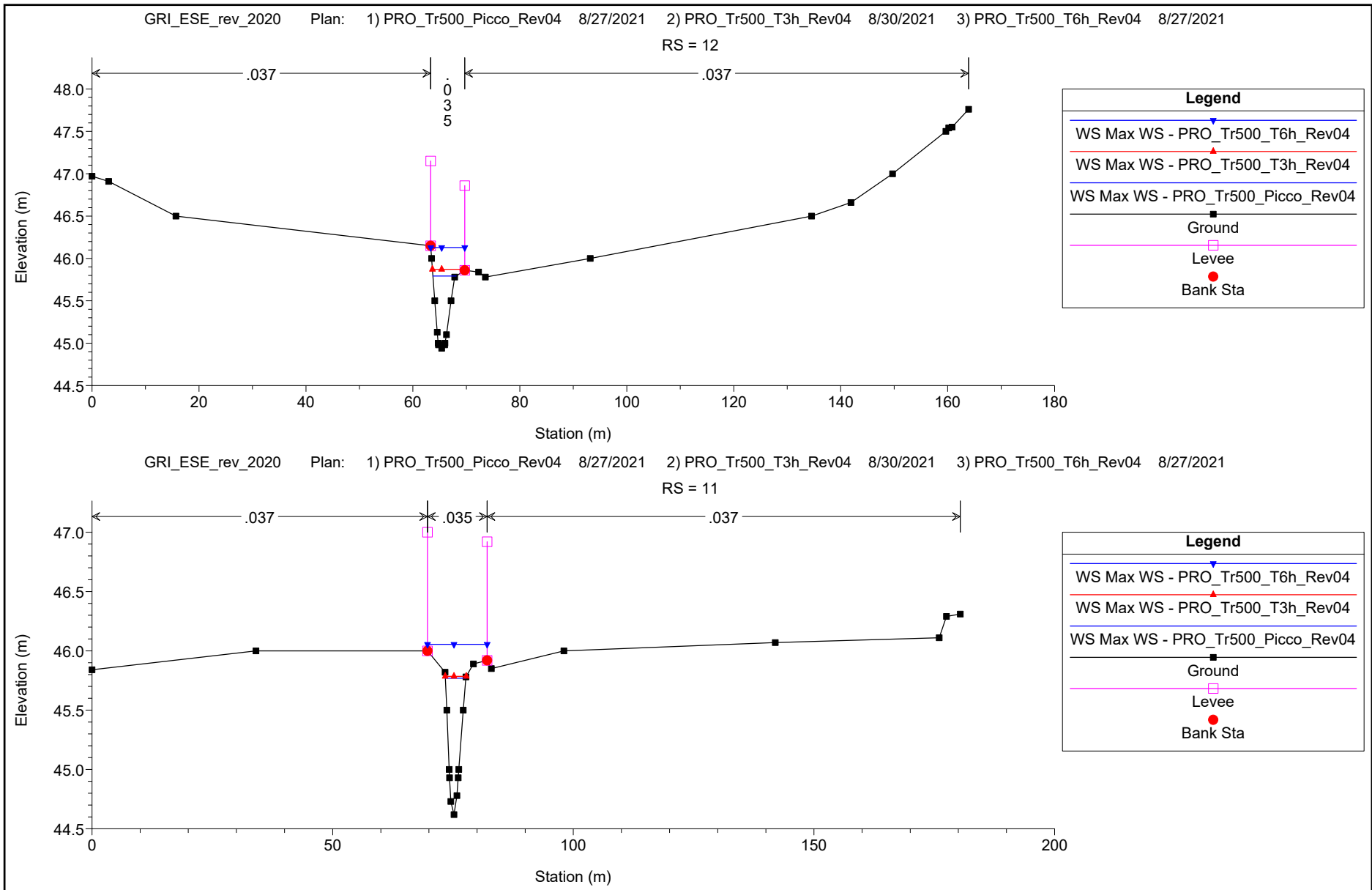
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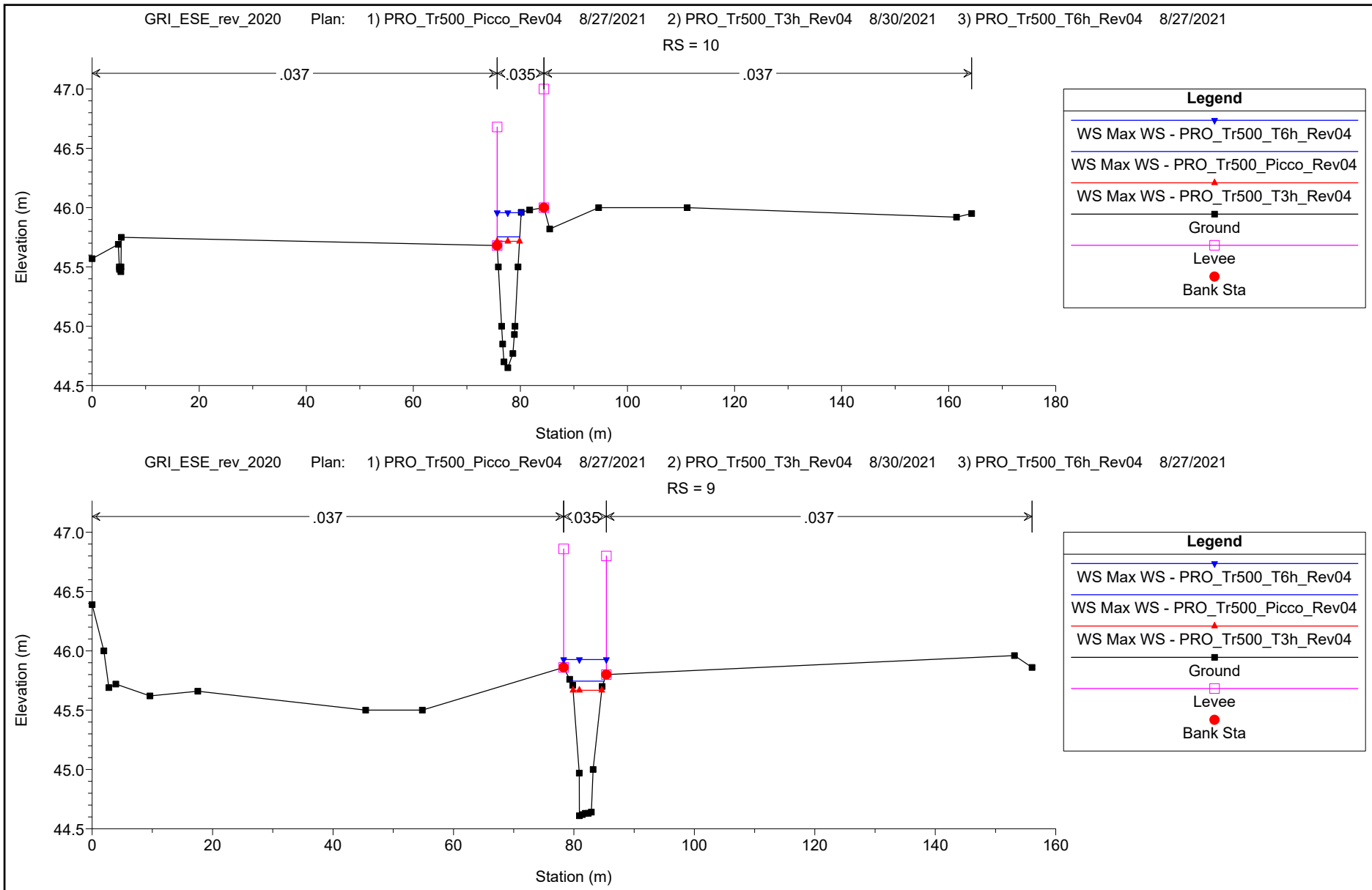


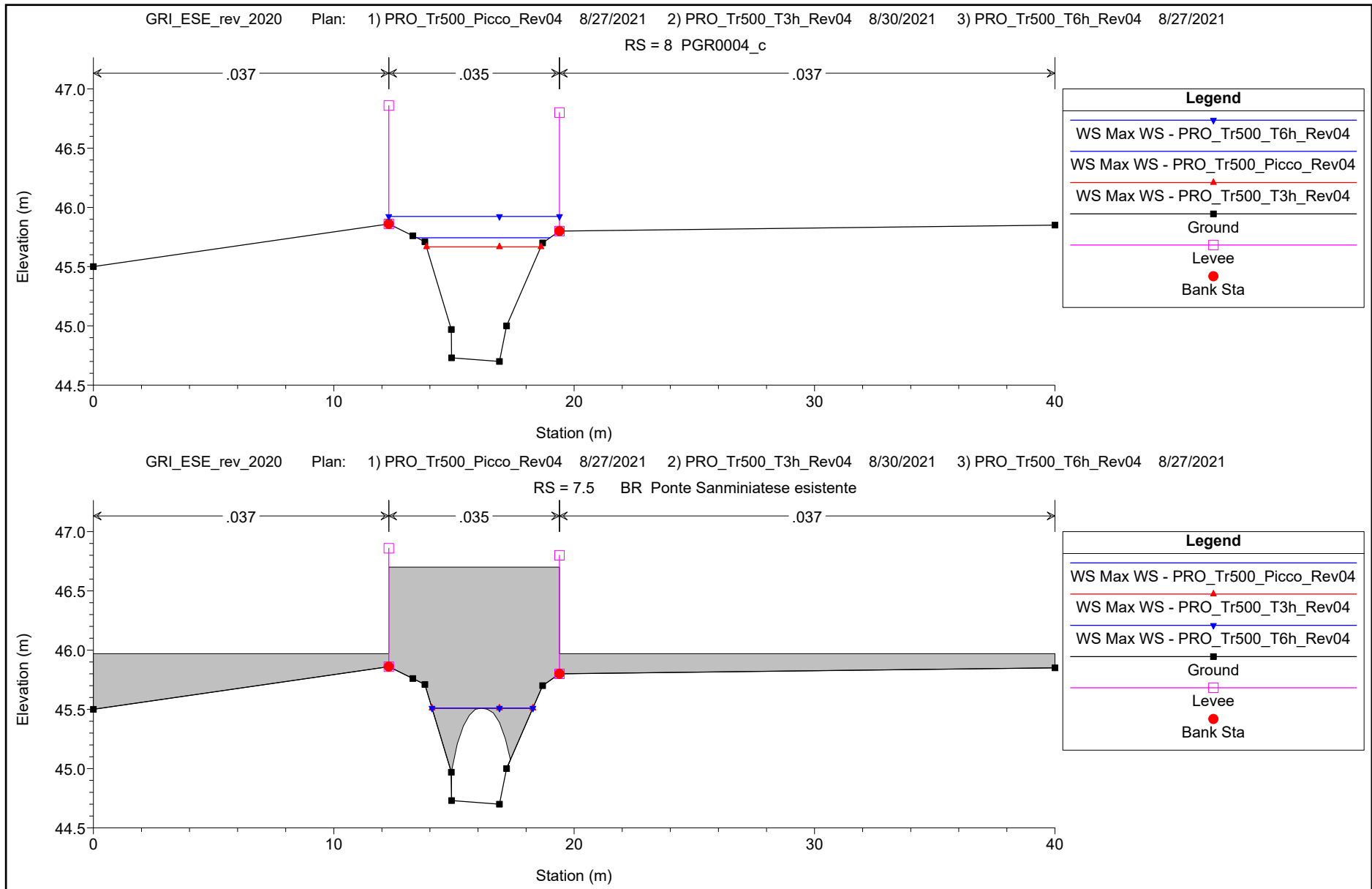






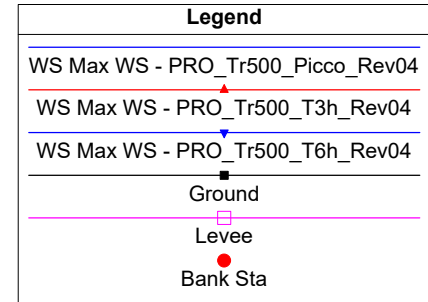
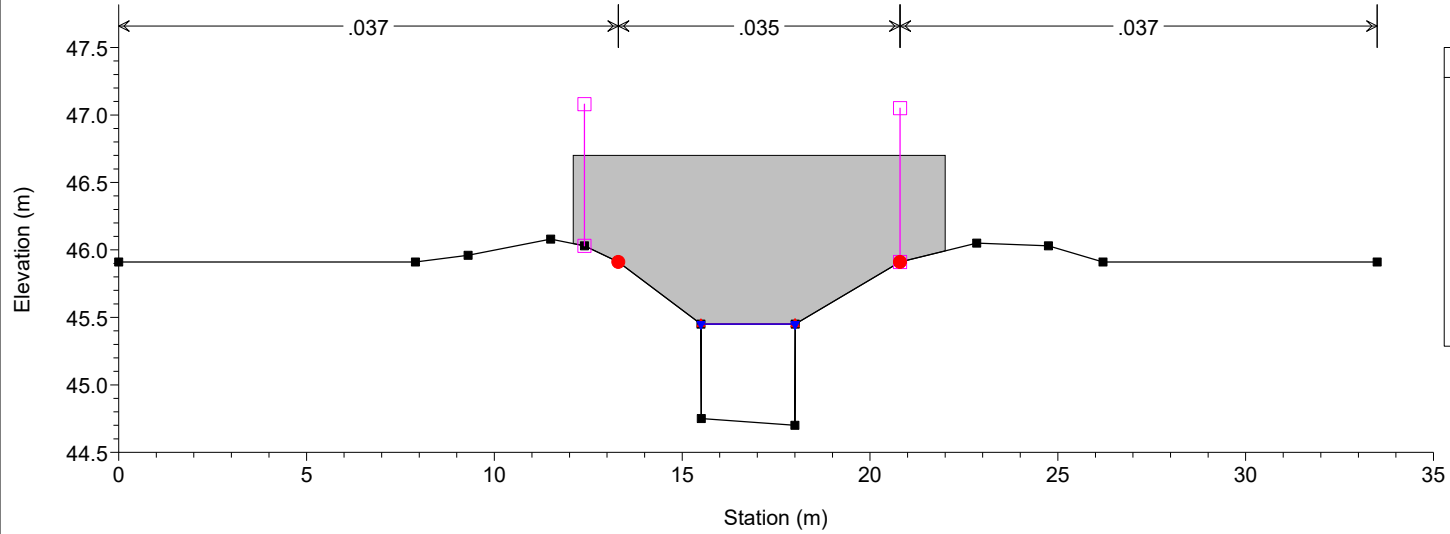






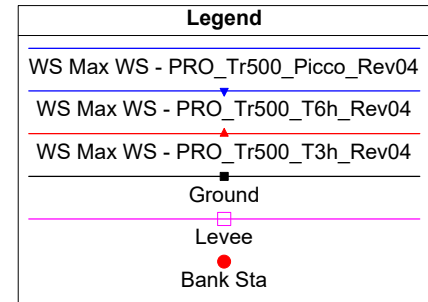
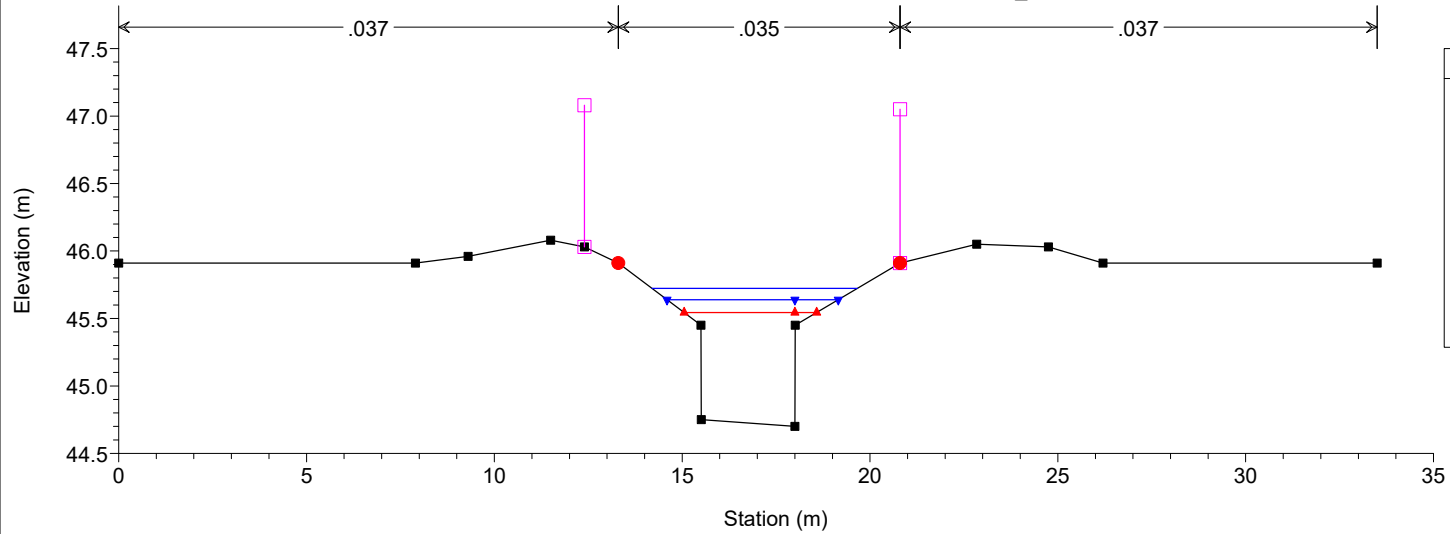
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RS = 7.5 BR Ponte Sanminiatese esistente

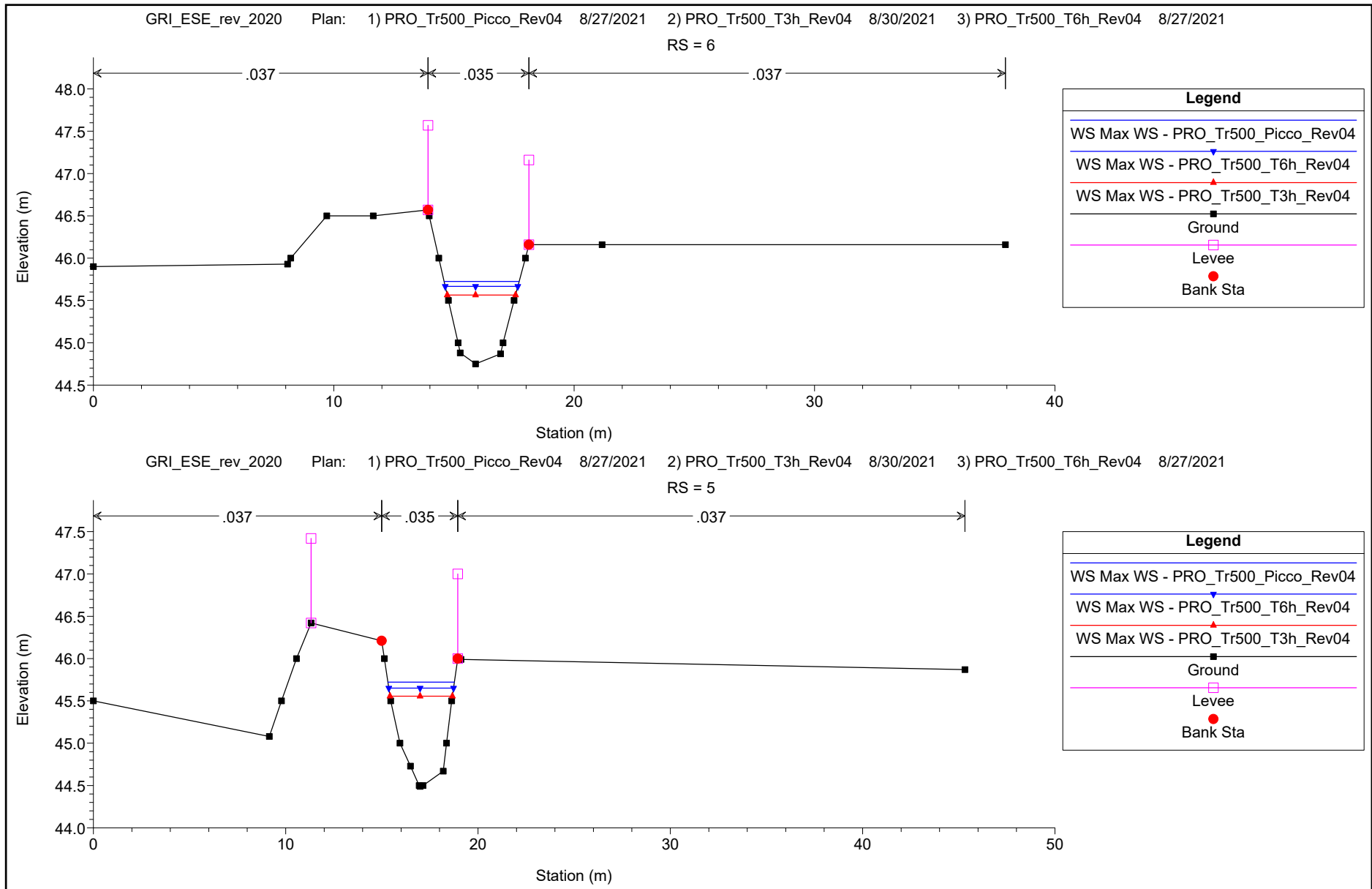


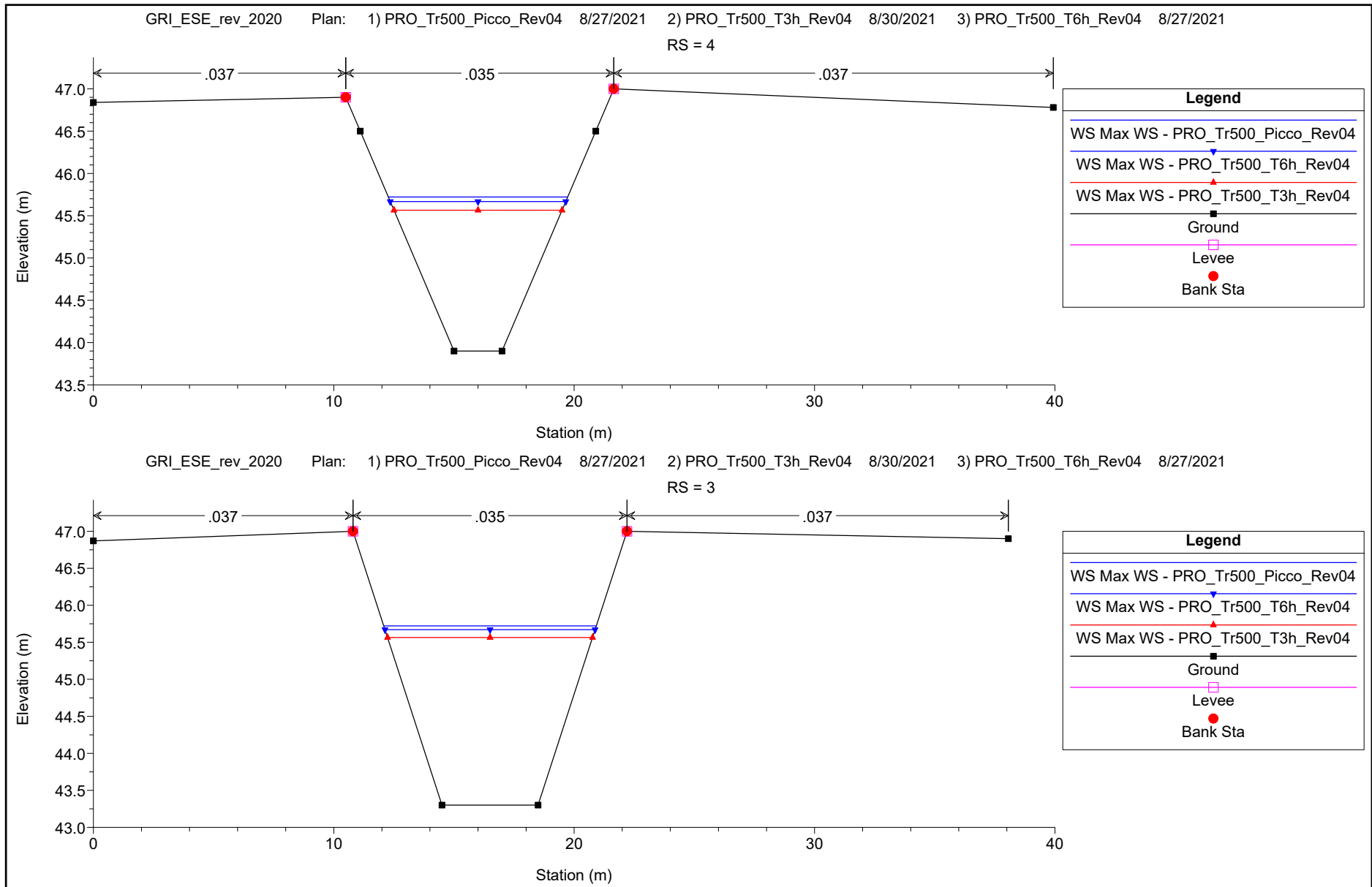
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RS = 7 PGR0004\_d



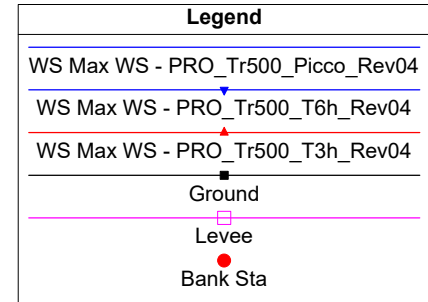
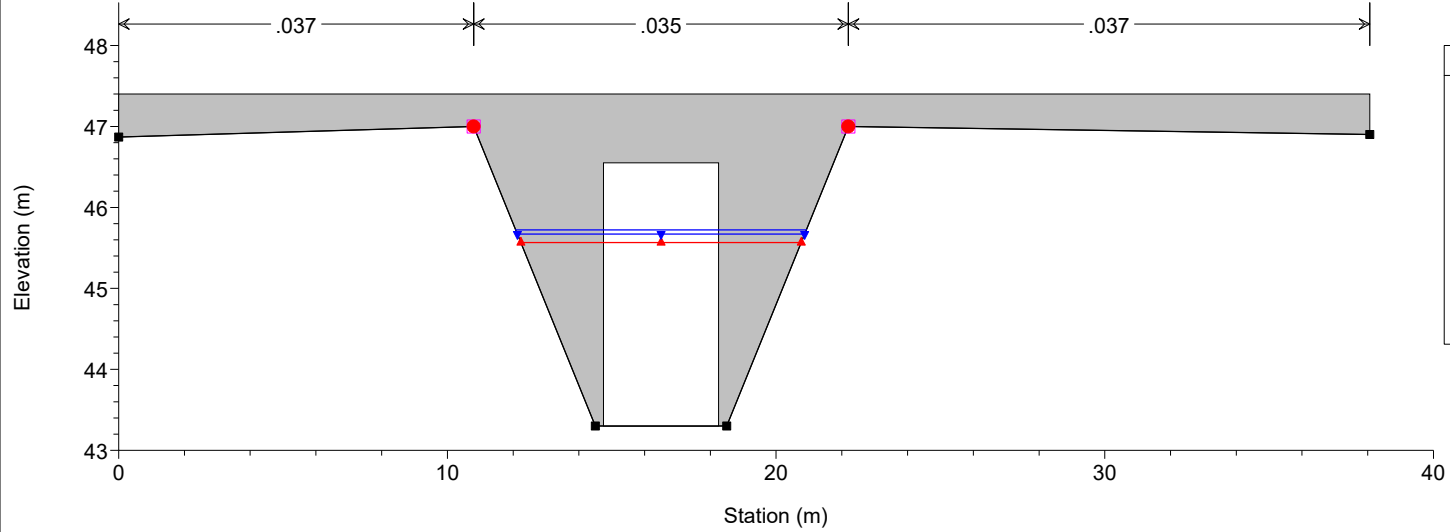






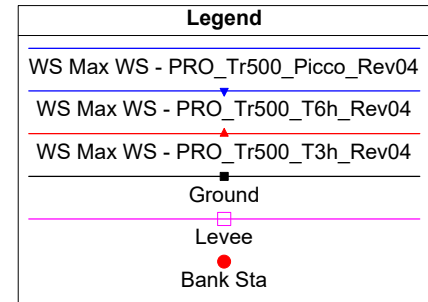
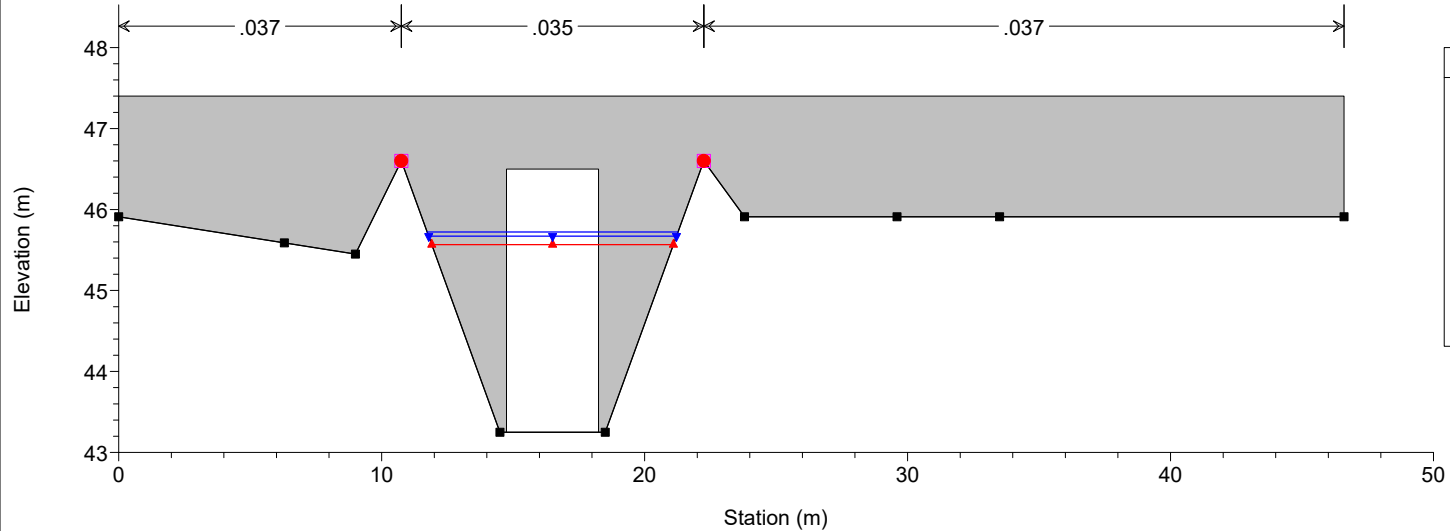
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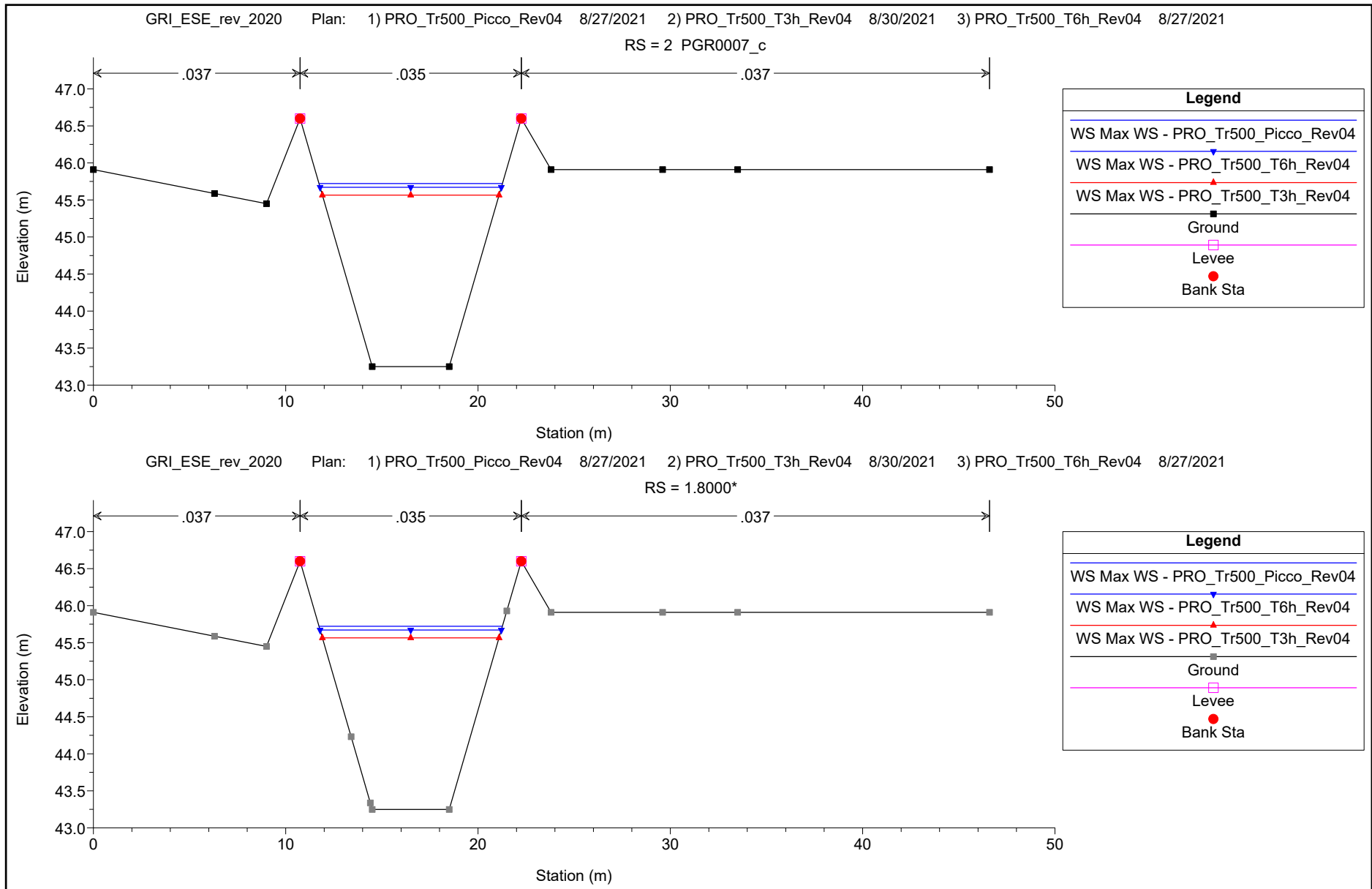
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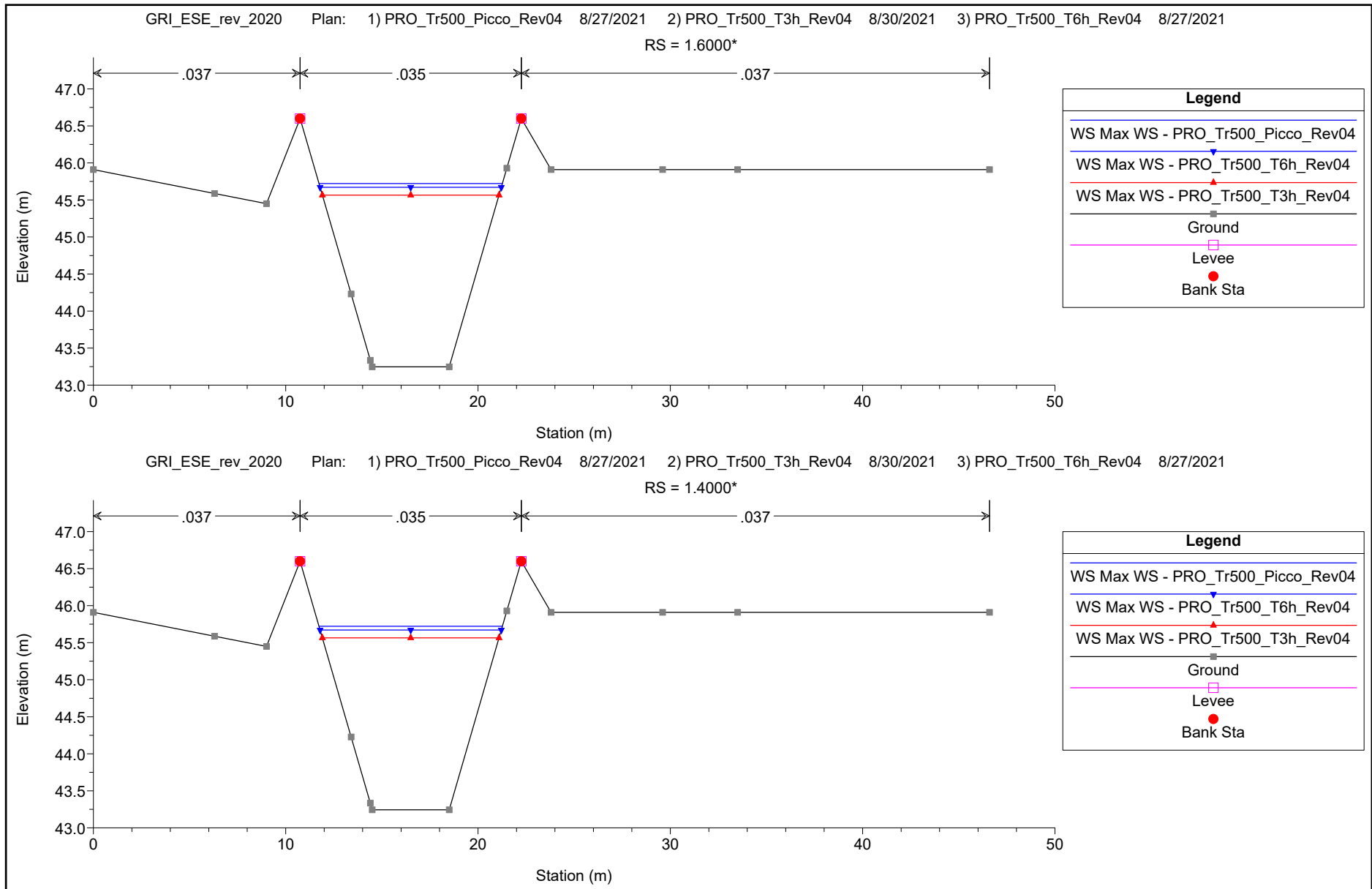


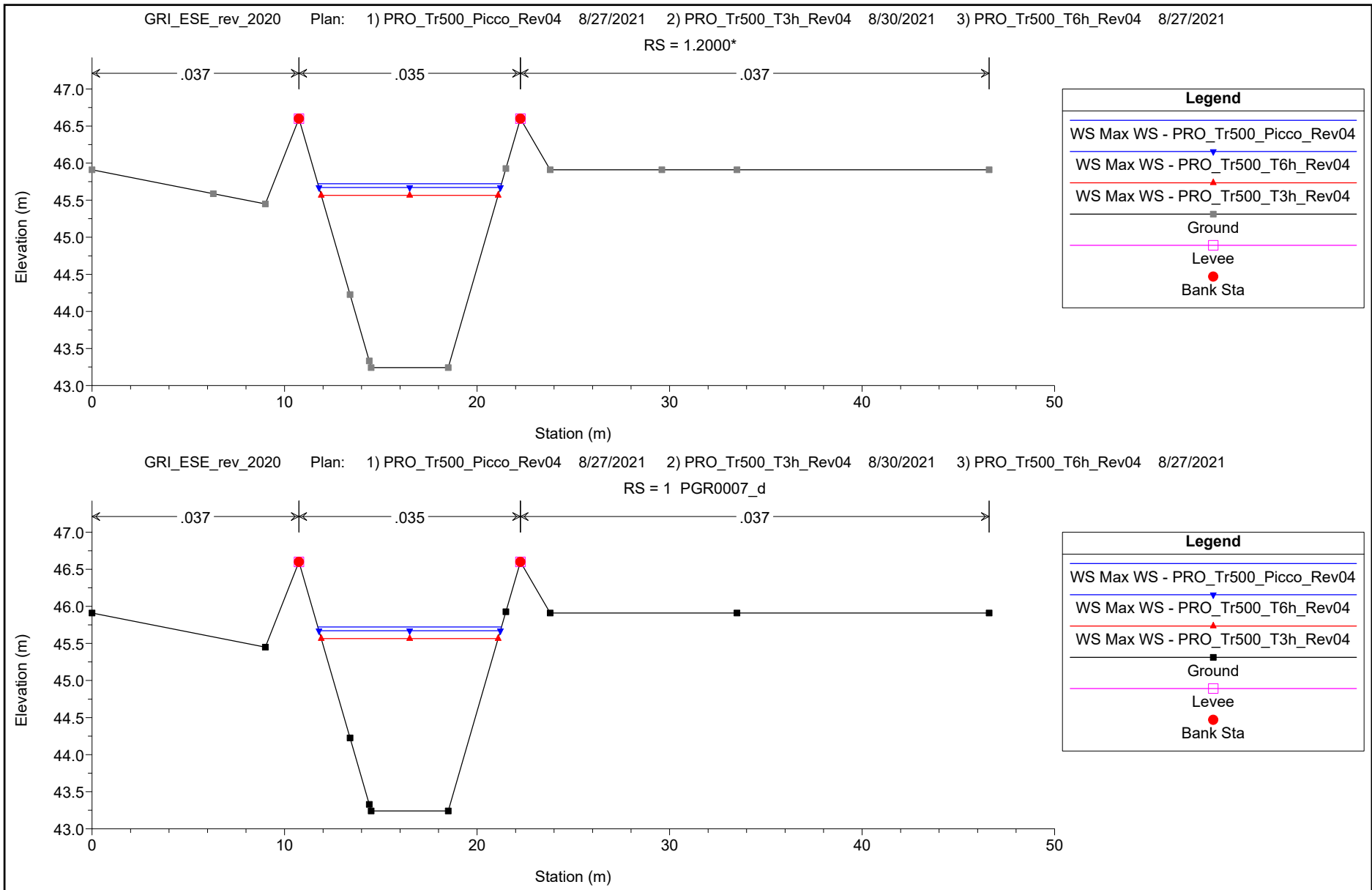
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RS = 2.5 Culv Ponte sr429









HEC-RAS River: Grignana Reach: Grignana Profile: Max WS

Reach	River Sta	Profile	Plan	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
Grignana	27	Max WS	PRO_Tr500_Picco_Rev04	23.66	49.83	51.59		51.65	0.006344	1.56	23.86	80.07	0.56
Grignana	27	Max WS	PRO_Tr500_T3h_Rev04	14.37	49.83	51.48		51.55	0.007598	1.74	15.45	73.33	0.60
Grignana	27	Max WS	PRO_Tr500_T6h_Rev04	8.95	49.83	51.40	51.41	51.48	0.007268	1.76	9.87	55.98	0.57
Grignana	26	Max WS	PRO_Tr500_Picco_Rev04	23.66	49.37	51.30		51.40	0.007016	1.82	21.75	78.84	0.65
Grignana	26	Max WS	PRO_Tr500_T3h_Rev04	14.36	49.37	51.26		51.31	0.003714	1.39	18.08	71.89	0.47
Grignana	26	Max WS	PRO_Tr500_T6h_Rev04	8.95	49.37	51.06	50.89	51.24	0.009516	1.98	6.39	47.82	0.74
Grignana	25	Max WS	PRO_Tr500_Picco_Rev04	23.65	49.08	50.92	50.94	52.00	0.037792	4.61	5.13	5.44	1.52
Grignana	25	Max WS	PRO_Tr500_T3h_Rev04	14.30	49.08	50.90		51.31	0.014528	2.84	5.03	5.38	0.94
Grignana	25	Max WS	PRO_Tr500_T6h_Rev04	8.95	49.08	50.70		50.95	0.009858	2.21	4.05	4.66	0.76
Grignana	24	Max WS	PRO_Tr500_Picco_Rev04	23.65	48.66	50.20	50.26	50.40	0.011675	2.71	16.86	70.86	0.87
Grignana	24	Max WS	PRO_Tr500_T3h_Rev04	14.32	48.66	50.10	50.18	50.34	0.011268	2.55	10.66	65.58	0.85
Grignana	24	Max WS	PRO_Tr500_T6h_Rev04	8.95	48.66	50.01	50.00	50.33	0.012374	2.53	4.53	59.90	0.88
Grignana	23	Max WS	PRO_Tr500_Picco_Rev04	23.62	48.44	49.66	49.71	49.83	0.013119	2.72	17.12	76.64	0.92
Grignana	23	Max WS	PRO_Tr500_T3h_Rev04	12.74	48.44	49.60	49.60	49.70	0.007238	1.93	12.66	65.21	0.67
Grignana	23	Max WS	PRO_Tr500_T6h_Rev04	5.18	48.44	49.79		49.80	0.000186	0.35	27.63	86.00	0.11
Grignana	22	Max WS	PRO_Tr500_Picco_Rev04	2.03	47.85	49.22		49.22	0.000007	0.07	39.97	76.93	0.02
Grignana	22	Max WS	PRO_Tr500_T3h_Rev04	2.47	47.85	49.57		49.57	0.000002	0.05	70.22	97.85	0.01
Grignana	22	Max WS	PRO_Tr500_T6h_Rev04	4.81	47.85	49.79		49.79	0.000004	0.07	93.26	108.38	0.02
Grignana	21	Max WS	PRO_Tr500_Picco_Rev04	2.04	47.46	49.22		49.22	0.000001	0.04	77.09	98.76	0.01
Grignana	21	Max WS	PRO_Tr500_T3h_Rev04	2.45	47.46	49.57		49.57	0.000001	0.03	113.05	110.02	0.01
Grignana	21	Max WS	PRO_Tr500_T6h_Rev04	4.83	47.46	49.79		49.79	0.000001	0.05	138.44	117.32	0.01
Grignana	20	Max WS	PRO_Tr500_Picco_Rev04	2.05	46.92	49.22		49.22	0.000000	0.02	147.35	140.35	0.00
Grignana	20	Max WS	PRO_Tr500_T3h_Rev04	2.44	46.92	49.57		49.57	0.000000	0.02	196.70	146.28	0.00
Grignana	20	Max WS	PRO_Tr500_T6h_Rev04	4.83	46.92	49.79		49.79	0.000000	0.03	229.85	150.44	0.01
Grignana	19	Max WS	PRO_Tr500_Picco_Rev04	2.05	46.33	49.22		49.22	0.000000	0.01	232.69	164.84	0.00
Grignana	19	Max WS	PRO_Tr500_T3h_Rev04	2.45	46.33	49.57		49.57	0.000000	0.01	290.68	171.61	0.00
Grignana	19	Max WS	PRO_Tr500_T6h_Rev04	4.81	46.33	49.79		49.79	0.000000	0.02	329.40	174.97	0.00
Grignana	18	Max WS	PRO_Tr500_Picco_Rev04	2.08	45.68	49.22		49.22	0.000000	0.01	295.60	172.05	0.00
Grignana	18	Max WS	PRO_Tr500_T3h_Rev04	2.45	45.68	49.57		49.57	0.000000	0.01	356.07	179.03	0.00
Grignana	18	Max WS	PRO_Tr500_T6h_Rev04	4.83	45.68	49.79		49.79	0.000000	0.02	396.56	183.47	0.00

HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	17	Max WS	PRO_Tr500_Picco_Rev04	2.09	45.51	49.22		49.22	0.000000	0.01	281.39	158.37	0.00
Grignana	17	Max WS	PRO_Tr500_T3h_Rev04	2.45	45.51	49.57		49.57	0.000000	0.01	336.63	162.36	0.00
Grignana	17	Max WS	PRO_Tr500_T6h_Rev04	4.82	45.51	49.79		49.79	0.000000	0.02	373.18	164.87	0.00
Grignana	16	Max WS	PRO_Tr500_Picco_Rev04	2.08	45.38	49.22		49.22	0.000000	0.01	333.91	159.04	0.00
Grignana	16	Max WS	PRO_Tr500_T3h_Rev04	2.45	45.38	49.57		49.57	0.000000	0.01	389.25	163.07	0.00
Grignana	16	Max WS	PRO_Tr500_T6h_Rev04	4.82	45.38	49.79		49.79	0.000000	0.01	425.75	163.65	0.00
Grignana	15.8	Max WS	PRO_Tr500_Picco_Rev04	2.08	45.38	49.22	45.89	49.22	0.000000	0.01	333.91	159.04	0.00
Grignana	15.8	Max WS	PRO_Tr500_T3h_Rev04	2.45	45.38	49.57	45.94	49.57	0.000000	0.01	389.25	163.07	0.00
Grignana	15.8	Max WS	PRO_Tr500_T6h_Rev04	4.82	45.38	49.79	46.19	49.79	0.000000	0.01	425.75	163.65	0.00
Grignana	15.5			Inl Struct									
Grignana	15	Max WS	PRO_Tr500_Picco_Rev04	2.08	45.42	46.19		46.26	0.004231	1.13	1.83	3.13	0.47
Grignana	15	Max WS	PRO_Tr500_T3h_Rev04	2.44	45.42	46.25		46.32	0.004491	1.21	2.02	3.21	0.49
Grignana	15	Max WS	PRO_Tr500_T6h_Rev04	4.82	45.42	46.46		46.62	0.007506	1.77	2.73	3.42	0.63
Grignana	14.9			Lat Struct									
Grignana	14.8			Lat Struct									
Grignana	14	Max WS	PRO_Tr500_Picco_Rev04	2.08	45.20	46.05		46.10	0.003573	0.95	2.19	4.81	0.45
Grignana	14	Max WS	PRO_Tr500_T3h_Rev04	2.35	45.20	46.12		46.16	0.003089	0.93	2.53	5.08	0.42
Grignana	14	Max WS	PRO_Tr500_T6h_Rev04	3.90	45.20	46.33		46.39	0.002935	1.09	3.59	5.08	0.41
Grignana	13	Max WS	PRO_Tr500_Picco_Rev04	2.08	45.05	45.92		45.97	0.003090	0.98	2.13	3.92	0.42
Grignana	13	Max WS	PRO_Tr500_T3h_Rev04	2.36	45.05	46.00		46.05	0.002665	0.97	2.44	3.95	0.39
Grignana	13	Max WS	PRO_Tr500_T6h_Rev04	3.83	45.05	46.19		46.27	0.003162	1.20	3.20	3.95	0.42
Grignana	12	Max WS	PRO_Tr500_Picco_Rev04	1.24	44.94	45.79		45.81	0.001114	0.57	2.19	4.36	0.25
Grignana	12	Max WS	PRO_Tr500_T3h_Rev04	2.38	44.94	45.87		45.91	0.003449	0.91	2.61	6.04	0.44
Grignana	12	Max WS	PRO_Tr500_T6h_Rev04	3.51	44.94	46.13		46.16	0.001739	0.83	4.21	6.34	0.33
Grignana	11	Max WS	PRO_Tr500_Picco_Rev04	1.21	44.62	45.77		45.78	0.000442	0.42	2.88	4.25	0.16
Grignana	11	Max WS	PRO_Tr500_T3h_Rev04	2.42	44.62	45.79		45.82	0.001697	0.82	2.95	4.37	0.32
Grignana	11	Max WS	PRO_Tr500_T6h_Rev04	4.09	44.62	46.06		46.08	0.002309	0.75	5.42	12.39	0.36



HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	10	Max WS	PRO_Tr500_Picco_Rev04	1.17	44.65	45.75		45.76	0.000301	0.37	3.18	4.23	0.14
Grignana	10	Max WS	PRO_Tr500_T3h_Rev04	2.41	44.65	45.72		45.75	0.001487	0.80	3.02	4.19	0.30
Grignana	10	Max WS	PRO_Tr500_T6h_Rev04	3.80	44.65	45.96		46.00	0.001606	0.93	4.07	4.50	0.31
Grignana	9	Max WS	PRO_Tr500_Picco_Rev04	1.10	44.61	45.74		45.75	0.000260	0.31	3.56	5.55	0.12
Grignana	9	Max WS	PRO_Tr500_T3h_Rev04	2.41	44.61	45.67		45.70	0.001528	0.76	3.17	4.77	0.30
Grignana	9	Max WS	PRO_Tr500_T6h_Rev04	3.48	44.61	45.93		45.95	0.001345	0.73	4.77	7.10	0.28
Grignana	8	Max WS	PRO_Tr500_Picco_Rev04	1.11	44.60	45.74	44.87	45.75	0.000210	0.29	3.86	5.55	0.11
Grignana	8	Max WS	PRO_Tr500_T3h_Rev04	2.41	44.60	45.67	45.06	45.69	0.001203	0.69	3.47	4.77	0.26
Grignana	8	Max WS	PRO_Tr500_T6h_Rev04	3.51	44.60	45.92	45.20	45.95	0.001172	0.69	5.06	7.10	0.26
Grignana	7.5			Bridge									
Grignana	7	Max WS	PRO_Tr500_Picco_Rev04	1.01	44.60	45.72		45.73	0.000355	0.31	3.21	5.47	0.13
Grignana	7	Max WS	PRO_Tr500_T3h_Rev04	2.41	44.60	45.54		45.59	0.003450	1.00	2.41	3.53	0.39
Grignana	7	Max WS	PRO_Tr500_T6h_Rev04	3.51	44.60	45.64		45.72	0.005689	1.26	2.79	4.56	0.51
Grignana	6	Max WS	PRO_Tr500_Picco_Rev04	1.01	44.50	45.72		45.73	0.000087	0.22	4.70	5.67	0.08
Grignana	6	Max WS	PRO_Tr500_T3h_Rev04	2.41	44.50	45.56		45.59	0.000852	0.63	3.83	5.19	0.23
Grignana	6	Max WS	PRO_Tr500_T6h_Rev04	3.51	44.50	45.67		45.70	0.001259	0.80	4.37	5.50	0.29
Grignana	5.9			Lat Struct									
Grignana	5.8			Lat Struct									
Grignana	5	Max WS	PRO_Tr500_Picco_Rev04	1.01	44.10	45.72		45.72	0.000027	0.14	7.19	6.87	0.04
Grignana	5	Max WS	PRO_Tr500_T3h_Rev04	2.41	44.10	45.56		45.56	0.000243	0.40	6.09	6.37	0.13
Grignana	5	Max WS	PRO_Tr500_T6h_Rev04	3.51	44.10	45.65		45.67	0.000394	0.52	6.71	6.65	0.17
Grignana	4.9			Lat Struct									
Grignana	4	Max WS	PRO_Tr500_Picco_Rev04	-1.04	43.90	45.72		45.72	0.000018	-0.12	8.62	7.47	0.04
Grignana	4	Max WS	PRO_Tr500_T3h_Rev04	1.21	43.90	45.56		45.57	0.000035	0.16	7.48	6.99	0.05
Grignana	4	Max WS	PRO_Tr500_T6h_Rev04	1.77	43.90	45.67		45.67	0.000058	0.21	8.22	7.30	0.06
Grignana	3	Max WS	PRO_Tr500_Picco_Rev04	0.00	43.30	45.72		45.72	0.000000	0.00	15.56	8.85	0.00
Grignana	3	Max WS	PRO_Tr500_T3h_Rev04	0.00	43.30	45.57		45.57	0.000000	0.00	14.20	8.53	0.00
Grignana	3	Max WS	PRO_Tr500_T6h_Rev04	0.00	43.30	45.67		45.67	0.000000	0.00	15.11	8.74	0.00

HEC-RAS River: Grignana Reach: Grignana Profile: Max WS (Continued)

Reach	River Sta	Profile	Plan	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
Grignana	2.5			Culvert									
Grignana	2	Max WS	PRO_Tr500_Picco_Rev04	0.00	43.25	45.72		45.72	0.000000	0.00	16.74	9.54	0.00
Grignana	2	Max WS	PRO_Tr500_T3h_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.27	9.19	0.00
Grignana	2	Max WS	PRO_Tr500_T6h_Rev04	0.00	43.25	45.67		45.67	0.000000	0.00	16.25	9.42	0.00
Grignana	1.8000*	Max WS	PRO_Tr500_Picco_Rev04	0.00	43.25	45.72		45.72	0.000000	0.00	16.75	9.54	0.00
Grignana	1.8000*	Max WS	PRO_Tr500_T3h_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.28	9.19	0.00
Grignana	1.8000*	Max WS	PRO_Tr500_T6h_Rev04	0.00	43.25	45.67		45.67	0.000000	0.00	16.26	9.42	0.00
Grignana	1.6000*	Max WS	PRO_Tr500_Picco_Rev04	0.00	43.25	45.72		45.72	0.000000	0.00	16.77	9.54	0.00
Grignana	1.6000*	Max WS	PRO_Tr500_T3h_Rev04	0.00	43.25	45.57		45.57	0.000000	0.00	15.30	9.19	0.00
Grignana	1.6000*	Max WS	PRO_Tr500_T6h_Rev04	0.00	43.25	45.67		45.67	0.000000	0.00	16.27	9.42	0.00
Grignana	1.4000*	Max WS	PRO_Tr500_Picco_Rev04	0.00	43.24	45.72		45.72	0.000000	0.00	16.78	9.54	0.00
Grignana	1.4000*	Max WS	PRO_Tr500_T3h_Rev04	0.00	43.24	45.57		45.57	0.000000	0.00	15.31	9.19	0.00
Grignana	1.4000*	Max WS	PRO_Tr500_T6h_Rev04	0.00	43.24	45.67		45.67	0.000000	0.00	16.29	9.42	0.00
Grignana	1.2000*	Max WS	PRO_Tr500_Picco_Rev04	0.00	43.24	45.72		45.72	0.000000	0.00	16.80	9.54	0.00
Grignana	1.2000*	Max WS	PRO_Tr500_T3h_Rev04	0.00	43.24	45.57		45.57	0.000000	0.00	15.33	9.19	0.00
Grignana	1.2000*	Max WS	PRO_Tr500_T6h_Rev04	0.00	43.24	45.67		45.67	0.000000	0.00	16.30	9.43	0.00
Grignana	1	Max WS	PRO_Tr500_Picco_Rev04	0.00	43.24	45.72	43.25	45.72	0.000000	0.00	16.81	9.54	0.00
Grignana	1	Max WS	PRO_Tr500_T3h_Rev04	0.00	43.24	45.57	43.25	45.57	0.000000	0.00	15.34	9.19	0.00
Grignana	1	Max WS	PRO_Tr500_T6h_Rev04	0.00	43.24	45.67	43.25	45.67	0.000000	0.00	16.32	9.43	0.00