

COMUNE DI MARRUBIU



PIANO URBANISTICO COMUNALE

FASE 2	ADEGUAMENTO PUC AL PAI
ELABORATO I.0.2	STUDIO DI COMPATIBILITÀ IDRAULICA REPORT ANALISI

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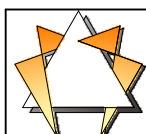
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Delibera di adozione n. del
Delibera di approvazione n. del

DICEMBRE 2012

Premessa

Il presente elaborato raccoglie i risultati delle analisi idrologica e idraulica ottenuti raggruppando i dati per bacino e all'interno di ogni bacino per tempo di ritorno ($T = 50, 100, .200, 500$).

In particolare, come riportato nella relazione, le verifiche idrauliche sono state condotte, nell'ipotesi di moto permanente, mediante l'ausilio del software River Analysis System realizzato dall'Hydrologic Engineering Center degli Stati Uniti (HEC-RAS v. 4.1).

Abbreviazioni

Tabelle

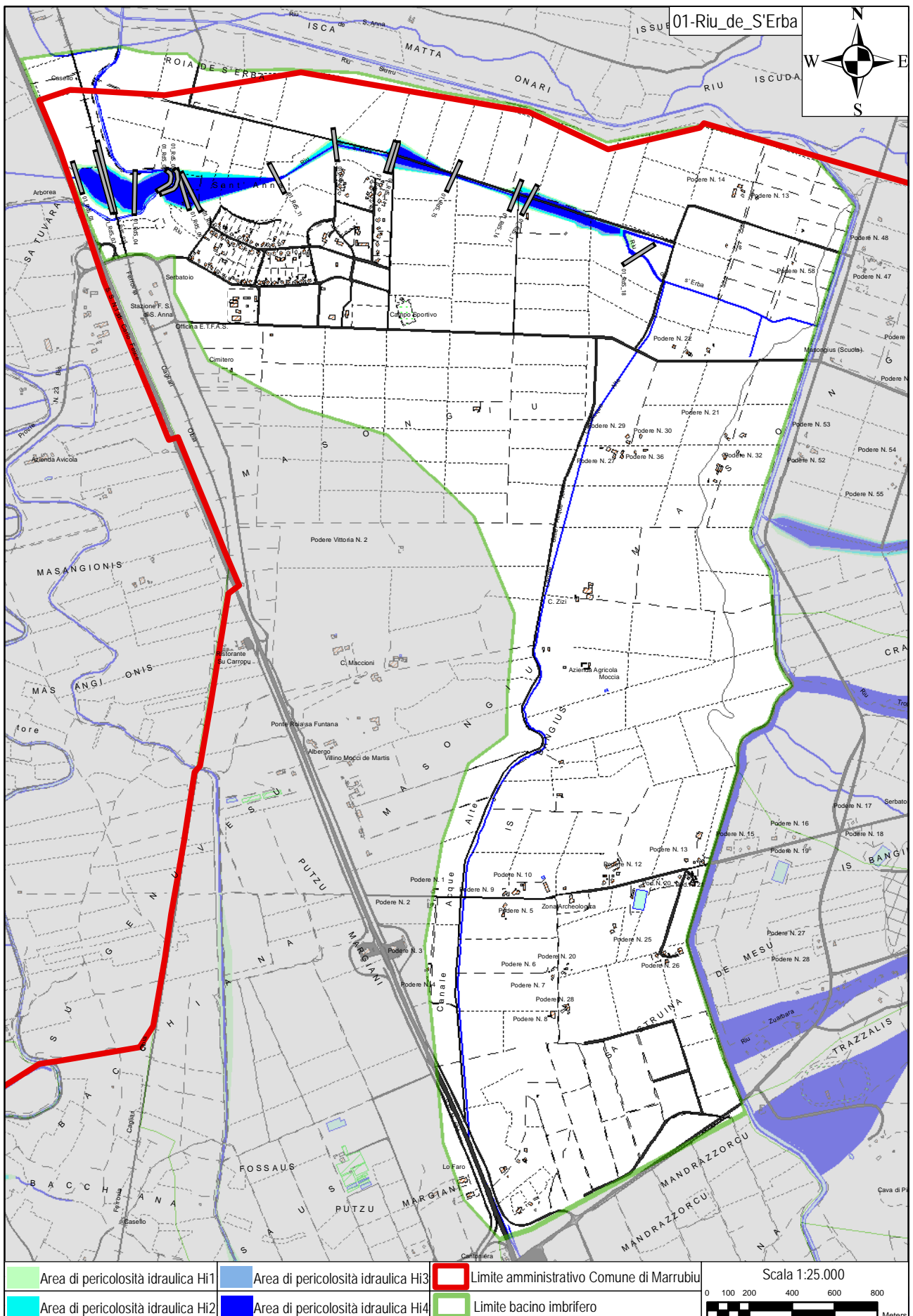
River Sta	Sezione fluviale
Profile	Tempo di ritorno dell'evento di piena
Q Total	Portata totale
Min Ch El	Minima quota dell'alveo
W.S. Elev.	Quota superficie pelo libero
Crit W.S.	Altezza critica
E.G. Elev	Altezza energia totale
E.G. Slope	Pendenza energia totale
Vel Chnl	Velocità media corrente idrica
Flow Area	Area interessata dal flusso idrico
Froude # Chl	Numero di Froude

Sezioni

RS	Sezione fluviale
WT T=50	Superficie pelo libero per eventi con tempo di ritorno di 50 anni
Ground	Terrano
Ineff	Area deflusso impedito
Bank sta	Limite alveo

1. Riu de s'Erba e Canale delle Acque Alte – Nord

Inquadramento



Principali grandezze morfometriche

RIU DE S'ERBA – sub-bacino n. 1			
Superficie del bacino	S	9,54	[km ²]
Altitudine massima	H_{max}	67,1	[m slm]
Altitudine minima	H_{min}	7,2	[m slm]
Altitudine media	H_{med}	37,0	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	59,9	[m]
Pendenza media del bacino	p_m	2,1	[%]
Lunghezza dell'asta principale	L	3,89	[km]
Pendenza dell'asta principale	i	2,3	[%]
Quota della sezione di chiusura	H_{min}	7,2	[m slm]
Curve Number	CN	70,80	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	3,62	[m/s]
Ventura	t_c	2,59	[m/s]
Giandotti	t_c	4,16	[m/s]
Pasini	t_c	2,38	[m/s]
VAPI	t_c	3,02	[m/s]
Viparelli	t_c	1,08	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 18)	9,78	14,34	19,65	27,68	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

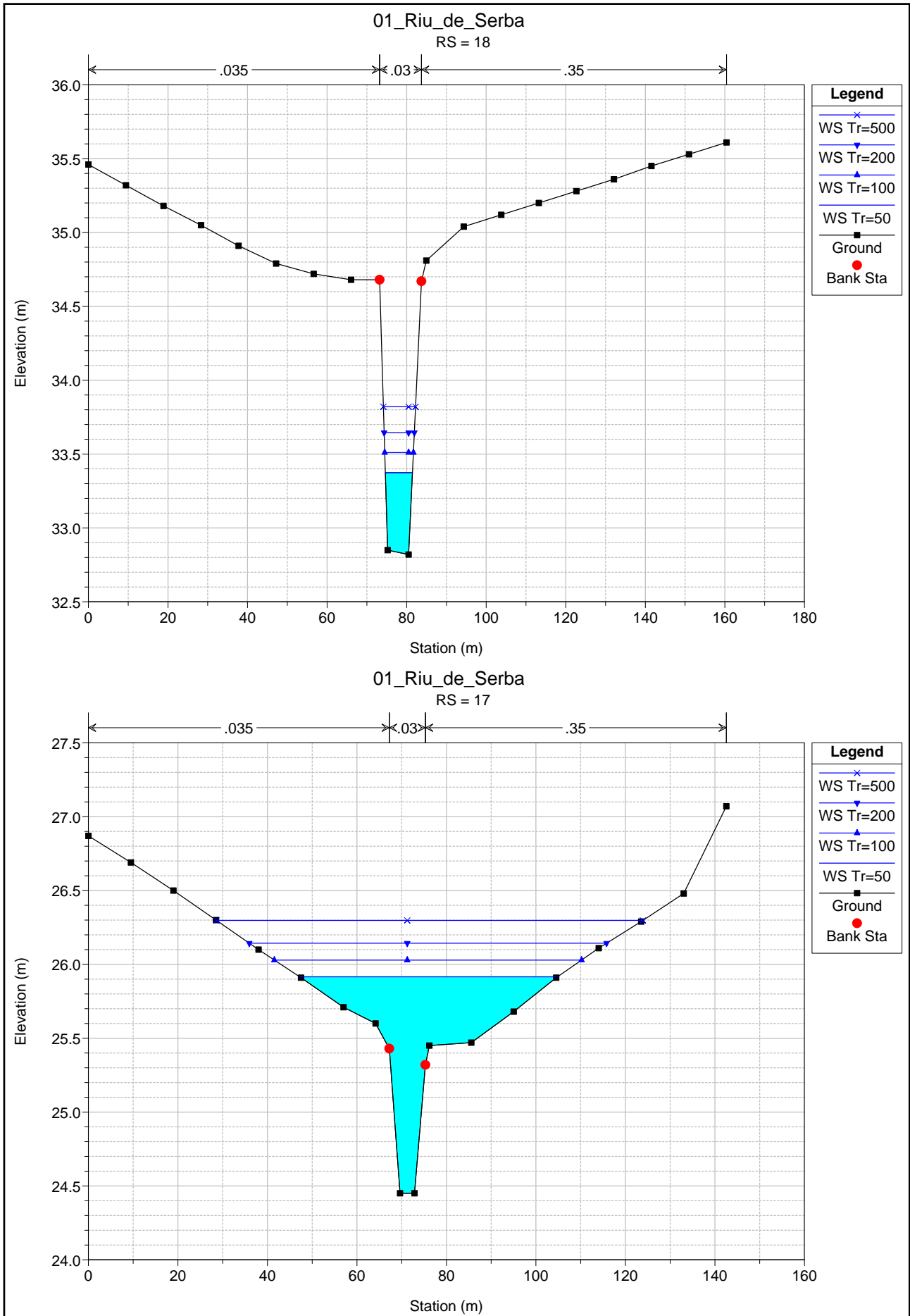
HEC-RAS Plan: plan1 River: Riu de Serba Reach: Riu de SerbaT

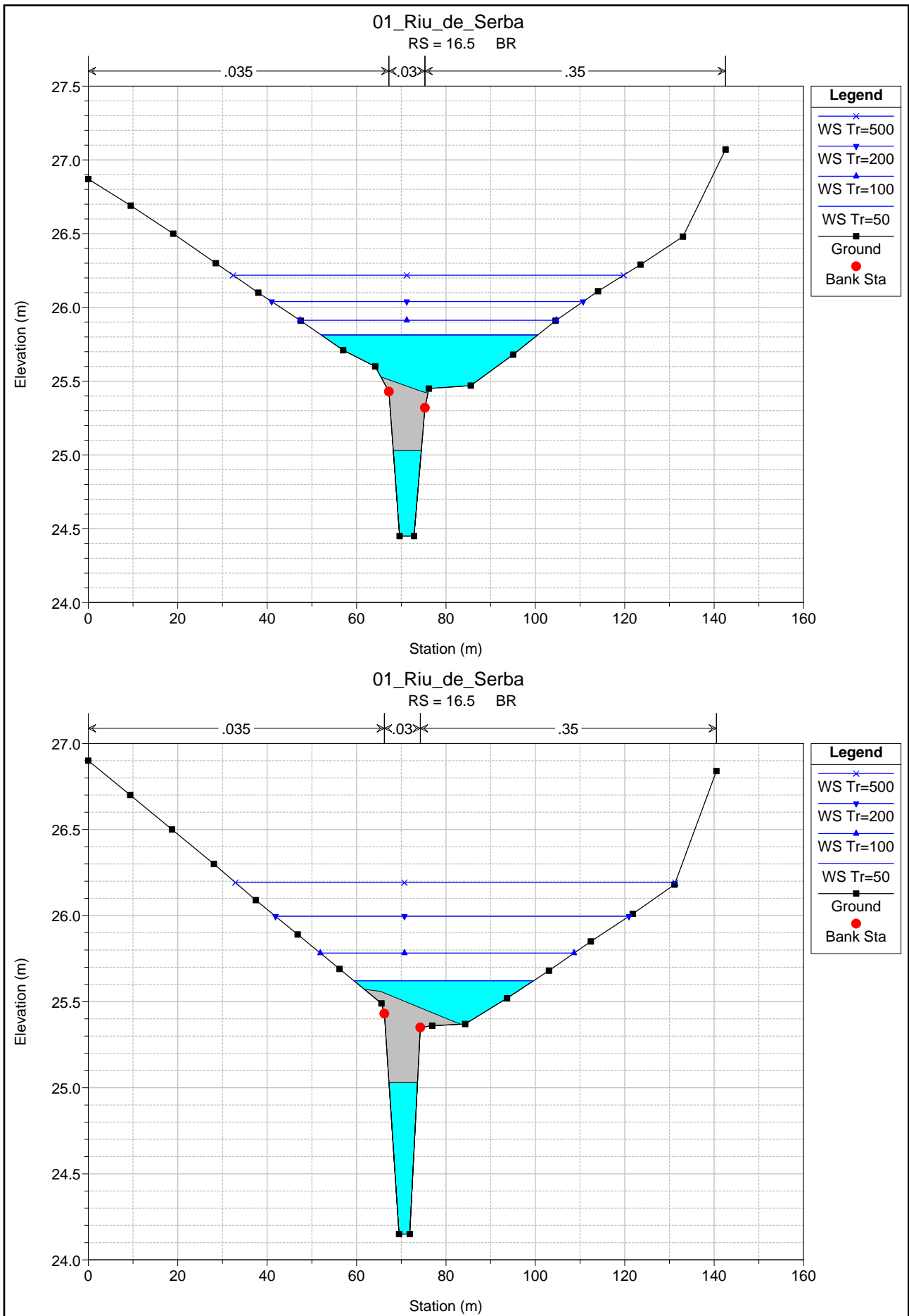
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Riu de Serba	18	Tr=50	9.78	32.82	33.37	33.49	33.83	0.023040	2.99	3.27	6.82	1.38
Riu de Serba	18	Tr=100	14.34	32.82	33.51	33.67	34.10	0.023042	3.40	4.22	7.21	1.42
Riu de Serba	18	Tr=200	19.65	32.82	33.64	33.85	34.37	0.023042	3.77	5.22	7.59	1.45
Riu de Serba	18	Tr=500	27.68	32.82	33.82	34.08	34.72	0.023043	4.20	6.60	8.09	1.48
Riu de Serba	17	Tr=50	9.78	24.45	25.92	25.23	25.95	0.000594	0.89	22.83	57.61	0.26
Riu de Serba	17	Tr=100	14.34	24.45	26.03	25.41	26.08	0.000815	1.10	29.96	68.65	0.31
Riu de Serba	17	Tr=200	19.65	24.45	26.14	25.60	26.21	0.000985	1.28	38.41	79.82	0.34
Riu de Serba	17	Tr=500	27.68	24.45	26.30	25.90	26.37	0.001102	1.45	51.93	95.29	0.37
Riu de Serba	16.5	Bridge										
Riu de Serba	16	Tr=50	9.78	24.15	24.99	25.04	25.37	0.014868	2.73	3.59	6.18	1.14
Riu de Serba	16	Tr=100	14.34	24.15	25.25	25.25	25.61	0.010671	2.67	5.36	7.36	1.00
Riu de Serba	16	Tr=200	19.65	24.15	25.45	25.45	25.86	0.009612	2.84	7.97	23.17	0.98
Riu de Serba	16	Tr=500	27.68	24.15	25.78	25.78	26.12	0.005448	2.66	21.22	56.87	0.78
Riu de Serba	15	Tr=50	9.78	20.01	20.72	20.75	21.01	0.013556	2.39	4.09	8.22	1.08
Riu de Serba	15	Tr=100	14.34	20.01	20.79	20.91	21.26	0.019498	3.03	4.72	8.75	1.32
Riu de Serba	15	Tr=200	19.65	20.01	20.88	21.08	21.53	0.022649	3.56	5.54	9.59	1.45
Riu de Serba	15	Tr=500	27.68	20.01	20.86	21.37	22.24	0.050467	5.21	5.33	9.38	2.15
Riu de Serba	14	Tr=50	9.78	18.22	19.73	19.12	19.77	0.000781	0.96	27.56	82.48	0.29
Riu de Serba	14	Tr=100	14.34	18.22	19.99	19.31	20.02	0.000566	0.94	51.78	106.80	0.26
Riu de Serba	14	Tr=200	19.65	18.22	20.10	19.61	20.14	0.000682	1.08	64.00	116.33	0.29
Riu de Serba	14	Tr=500	27.68	18.22	20.21	19.77	20.26	0.000866	1.28	77.69	124.74	0.33
Riu de Serba	13.5	Bridge										
Riu de Serba	13	Tr=50	9.78	17.97	18.80	18.91	19.28	0.019012	3.06	3.20	5.51	1.28
Riu de Serba	13	Tr=100	14.34	17.97	18.82	19.12	19.78	0.037385	4.34	3.31	5.59	1.80
Riu de Serba	13	Tr=200	19.65	17.97	19.06	19.33	19.93	0.025827	4.12	4.77	6.54	1.54
Riu de Serba	13	Tr=500	27.68	17.97	19.50	19.60	20.11	0.011830	3.44	8.08	9.63	1.10
Riu de Serba	12	Tr=50	9.78	15.92	17.03	16.85	17.21	0.005290	1.86	5.26	7.39	0.70
Riu de Serba	12	Tr=100	14.34	15.92	17.24	17.05	17.46	0.005237	2.09	6.96	12.80	0.72
Riu de Serba	12	Tr=200	19.65	15.92	17.41	17.23	17.69	0.005068	2.33	11.93	40.47	0.73
Riu de Serba	12	Tr=500	27.68	15.92	17.64	17.56	17.94	0.004565	2.52	23.20	60.42	0.72
Riu de Serba	11	Tr=50	9.78	13.64	14.37	14.37	14.72	0.012474	2.60	3.76	5.50	1.01
Riu de Serba	11	Tr=100	14.34	13.64	14.58	14.58	15.01	0.012048	2.92	4.91	5.69	1.00
Riu de Serba	11	Tr=200	19.65	13.64	14.79	14.79	15.31	0.011687	3.20	6.14	5.90	1.00
Riu de Serba	11	Tr=500	27.68	13.64	15.06	15.06	15.71	0.011617	3.55	7.81	6.16	1.01
Riu de Serba	10	Tr=50	9.78	10.02	12.48	10.88	12.49	0.000036	0.32	110.42	123.53	0.07
Riu de Serba	10	Tr=100	14.34	10.02	12.52	11.06	12.53	0.000070	0.45	115.42	126.82	0.10
Riu de Serba	10	Tr=200	19.65	10.02	12.57	11.34	12.58	0.000117	0.59	121.19	130.51	0.13
Riu de Serba	10	Tr=500	27.68	10.02	12.62	11.52	12.64	0.000204	0.79	128.44	135.00	0.17
Riu de Serba	9.5	Culvert										
Riu de Serba	09	Tr=50	9.78	9.92	12.48		12.48	0.000006	0.14	175.14	155.74	0.03
Riu de Serba	09	Tr=100	14.34	9.92	12.53		12.53	0.000012	0.20	181.99	157.13	0.04
Riu de Serba	09	Tr=200	19.65	9.92	12.57		12.57	0.000020	0.26	188.90	158.49	0.05
Riu de Serba	09	Tr=500	27.68	9.92	12.64		12.64	0.000034	0.34	199.49	160.53	0.07
Riu de Serba	08	Tr=50	9.78	9.66	12.48		12.48	0.000002	0.05	173.34	129.37	0.02
Riu de Serba	08	Tr=100	14.34	9.66	12.53		12.53	0.000005	0.08	179.04	130.66	0.02
Riu de Serba	08	Tr=200	19.65	9.66	12.57		12.57	0.000008	0.10	184.80	131.97	0.03
Riu de Serba	08	Tr=500	27.68	9.66	12.64		12.64	0.000013	0.13	193.65	134.05	0.04
Riu de Serba	07	Tr=50	9.78	8.37	12.48	9.22	12.48	0.000003	0.09	187.87	129.37	0.01
Riu de Serba	07	Tr=100	14.34	8.37	12.53	9.46	12.53	0.000006	0.13	193.56	130.65	0.02
Riu de Serba	07	Tr=200	19.65	8.37	12.57	9.72	12.57	0.000010	0.17	199.29	131.95	0.03
Riu de Serba	07	Tr=500	27.68	8.37	12.64	10.07	12.64	0.000018	0.23	208.09	134.03	0.04
Riu de Serba	6.5	Culvert										
Riu de Serba	06	Tr=50	9.78	8.26	9.41	9.40	9.49	0.002889	1.51	12.81	82.83	0.47
Riu de Serba	06	Tr=100	14.34	8.26	10.21		10.21	0.000055	0.30	106.46	123.12	0.07
Riu de Serba	06	Tr=200	19.65	8.26	10.74		10.74	0.000025	0.24	172.70	125.03	0.05
Riu de Serba	06	Tr=500	27.68	8.26	11.48		11.48	0.000013	0.21	266.17	127.67	0.04
Riu de Serba	05	Tr=50	9.78	9.20	9.41	9.41	9.48	0.019235	1.60	11.53	99.54	1.12
Riu de Serba	05	Tr=100	14.34	9.20	10.21		10.21	0.000072	0.28	104.08	124.39	0.09
Riu de Serba	05	Tr=200	19.65	9.20	10.74		10.74	0.000029	0.23	171.40	127.76	0.06
Riu de Serba	05	Tr=500	27.68	9.20	11.48		11.48	0.000014	0.21	267.06	129.70	0.05
Riu de Serba	04	Tr=50	9.78	8.06	9.31	8.65	9.31	0.000068	0.30	99.14	155.50	0.09
Riu de Serba	04	Tr=100	14.34	8.06	10.20		10.21	0.000010	0.17	256.66	182.04	0.04
Riu de Serba	04	Tr=200	19.65	8.06	10.74		10.74	0.000007	0.16	355.13	186.00	0.03
Riu de Serba	04	Tr=500	27.68	8.06	11.48		11.48	0.000005	0.17	495.59	195.58	0.03
Riu de Serba	03	Tr=50	9.78	7.52	9.28	8.11	9.29	0.000167	0.53	37.80	120.32	0.13

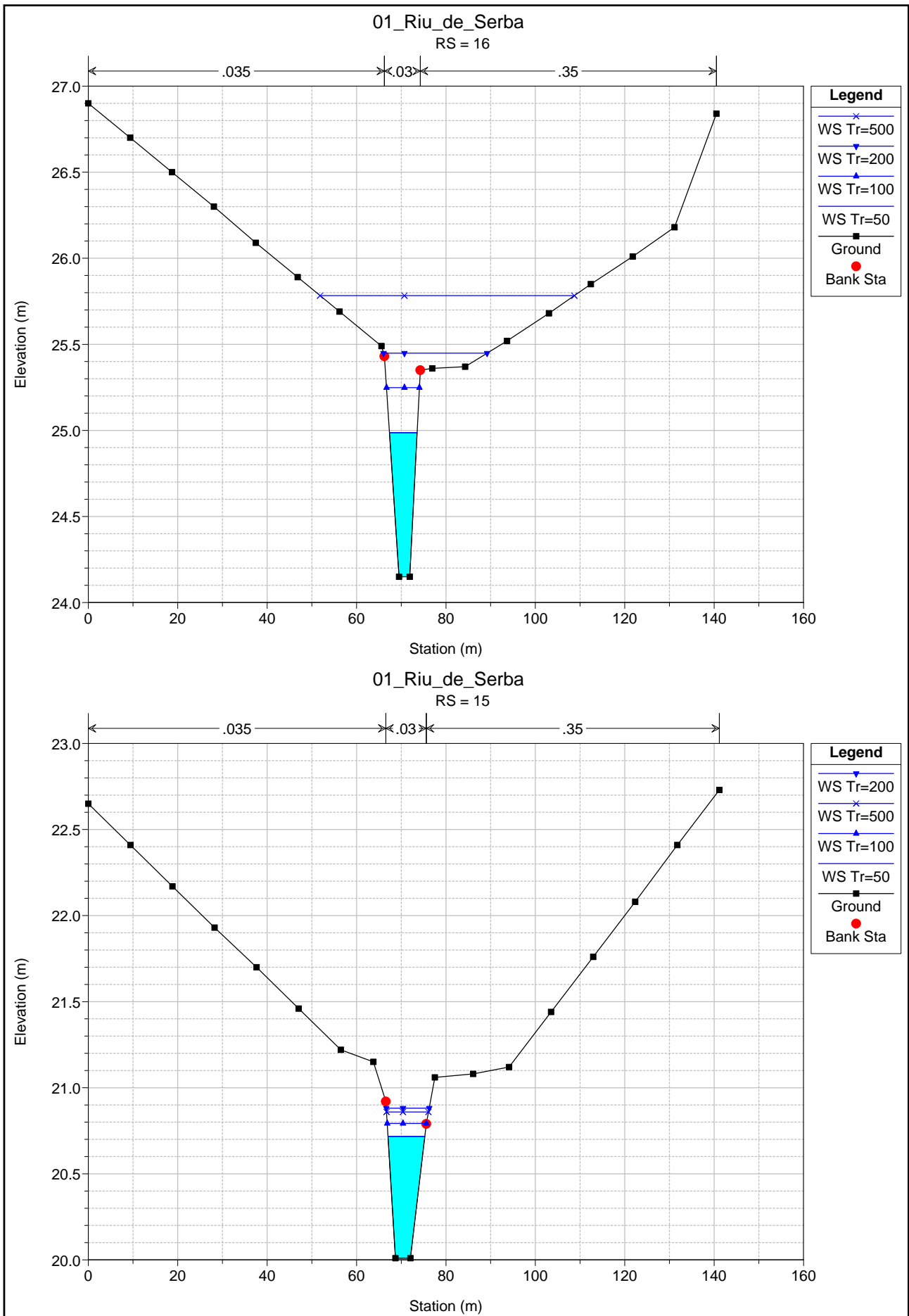
HEC-RAS Plan: plan1 River: Riu de Serba Reach: Riu de Serba (Continued)

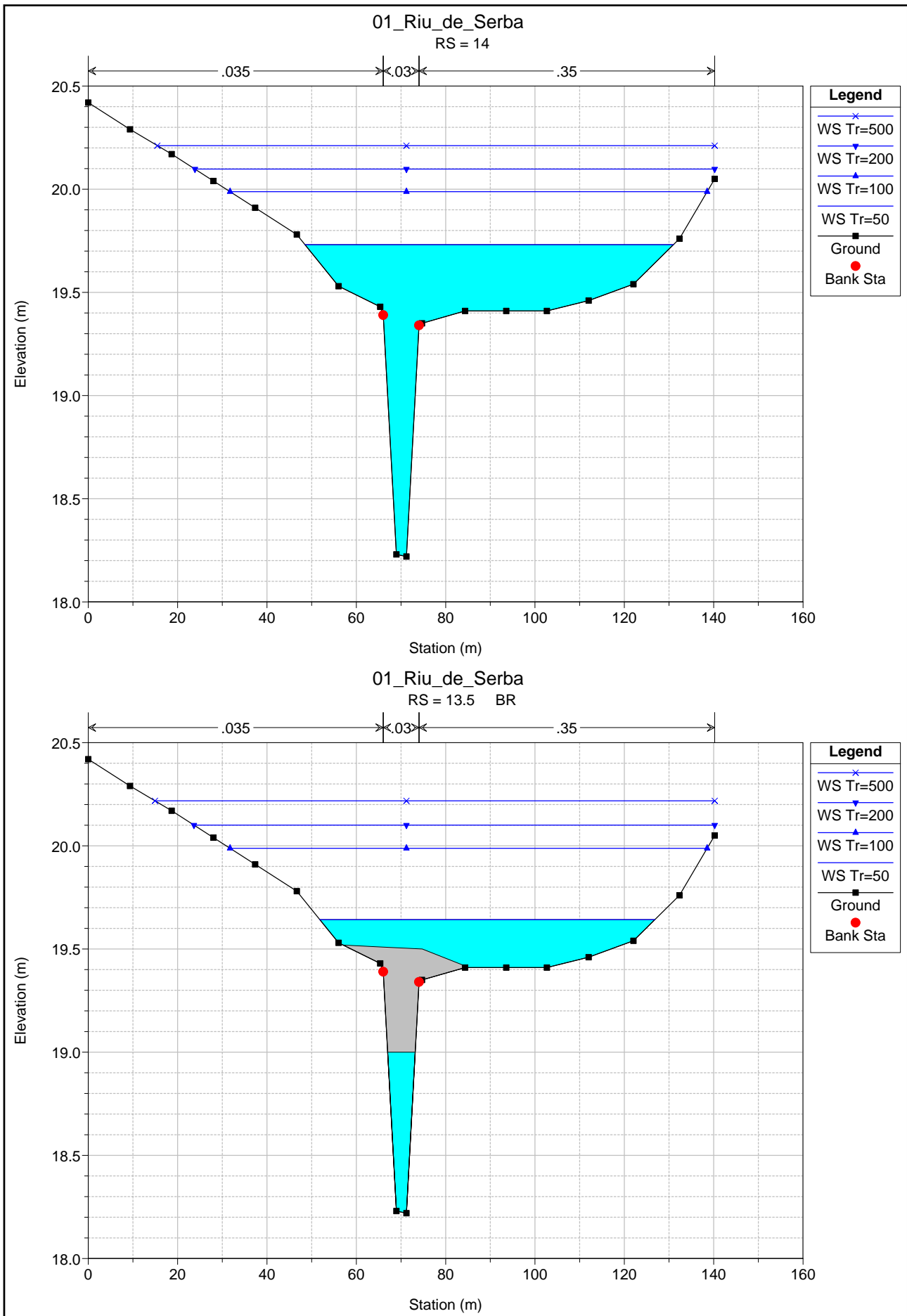
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Riu de Serba	03	Tr=100	14.34	7.52	10.20	8.28	10.20	0.000009	0.17	239.47	278.10	0.03
Riu de Serba	03	Tr=200	19.65	7.52	10.74	8.44	10.74	0.000004	0.13	395.34	303.68	0.02
Riu de Serba	03	Tr=500	27.68	7.52	11.48	8.67	11.48	0.000002	0.11	631.55	332.13	0.02
Riu de Serba	2.5	Culvert										
Riu de Serba	02	Tr=50	9.78	7.52	8.69		8.71	0.000572	0.74	24.35	100.07	0.24
Riu de Serba	02	Tr=100	14.34	7.52	8.96		8.97	0.000186	0.49	58.79	156.96	0.14
Riu de Serba	02	Tr=200	19.65	7.52	9.38		9.38	0.000041	0.28	135.60	222.77	0.07
Riu de Serba	02	Tr=500	27.68	7.52	9.93		9.93	0.000014	0.20	278.37	282.66	0.04
Riu de Serba	01	Tr=50	9.78	7.26	8.47	7.99	8.58	0.002313	1.47	6.66	6.31	0.46
Riu de Serba	01	Tr=100	14.34	7.26	8.75	8.20	8.90	0.002503	1.69	8.47	6.68	0.48
Riu de Serba	01	Tr=200	19.65	7.26	9.30	8.40	9.36	0.000861	1.24	33.50	109.53	0.30
Riu de Serba	01	Tr=500	27.68	7.26	9.91	8.68	9.92	0.000154	0.64	115.02	148.67	0.13
Riu de Serba	0.5	Bridge										
Riu de Serba	0	Tr=50	9.78	7.17	7.94	7.97	8.33	0.013836	2.76	3.54	5.27	1.07
Riu de Serba	0	Tr=100	14.34	7.17	8.13	8.19	8.63	0.014293	3.15	4.55	5.58	1.11
Riu de Serba	0	Tr=200	19.65	7.17	8.33	8.40	8.93	0.013874	3.43	5.73	5.92	1.11
Riu de Serba	0	Tr=500	27.68	7.17	8.59	8.69	9.32	0.013690	3.77	7.33	6.35	1.12

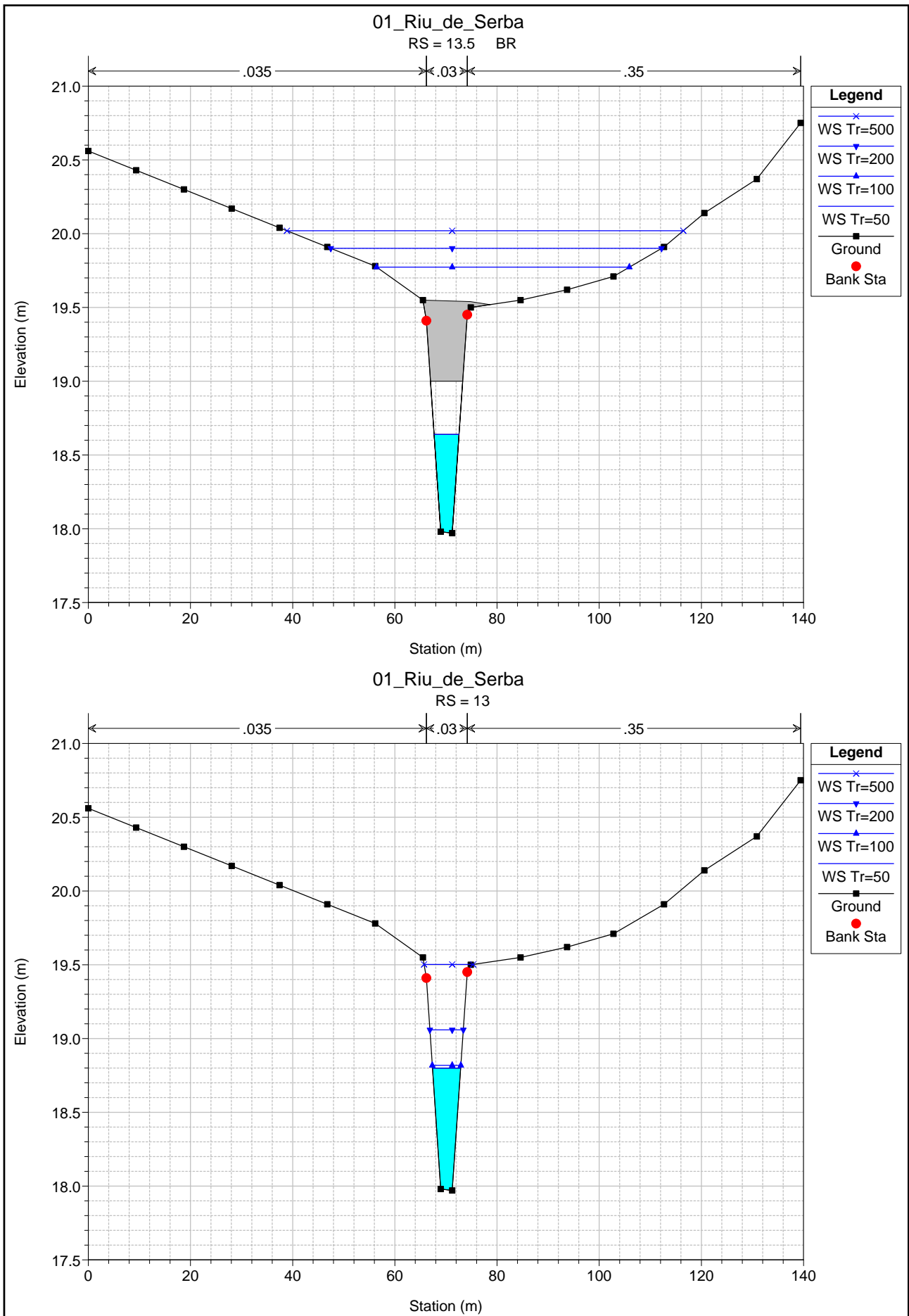
Sezioni fluviali relative ai tempi di ritorno considerati

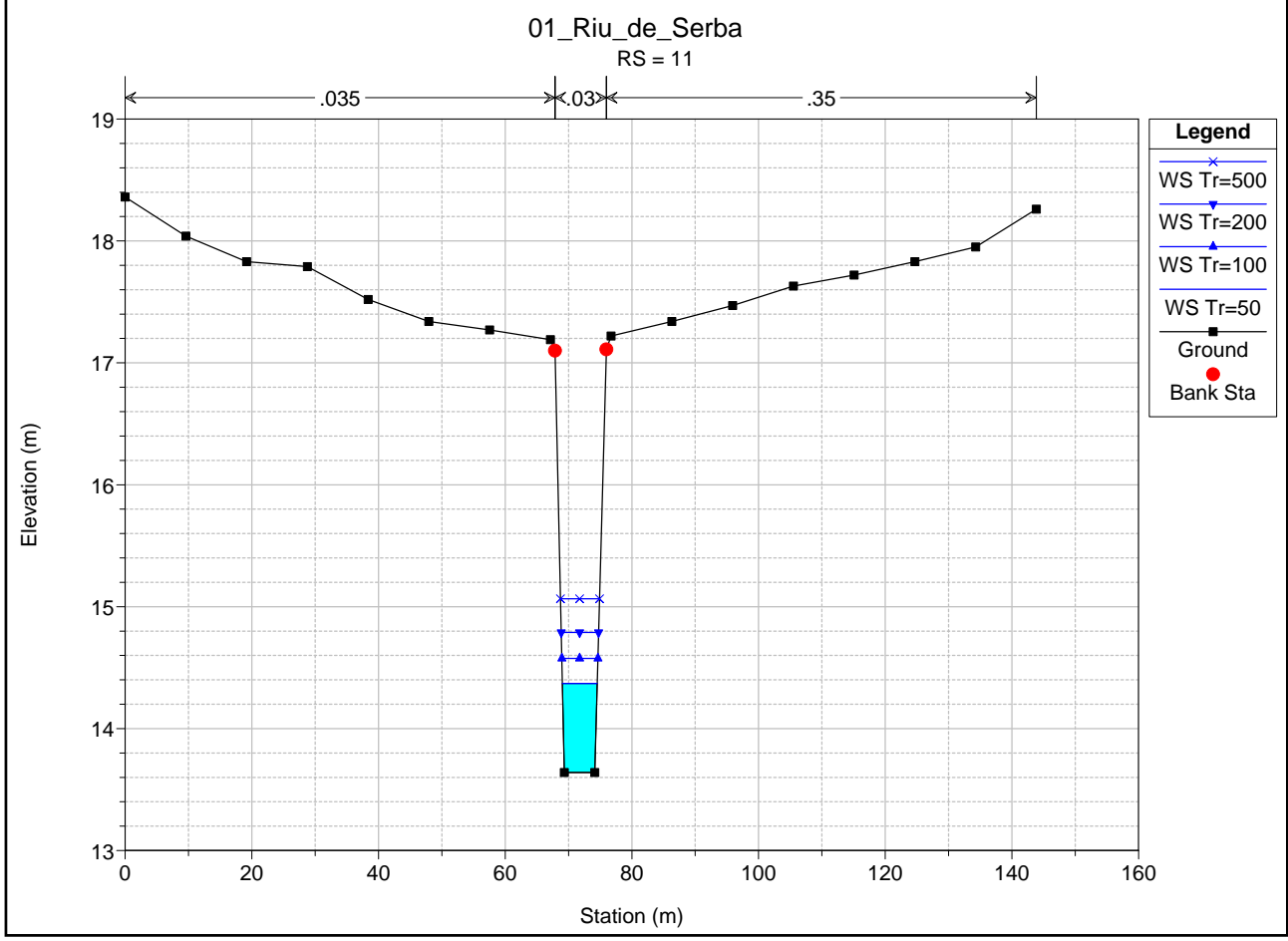
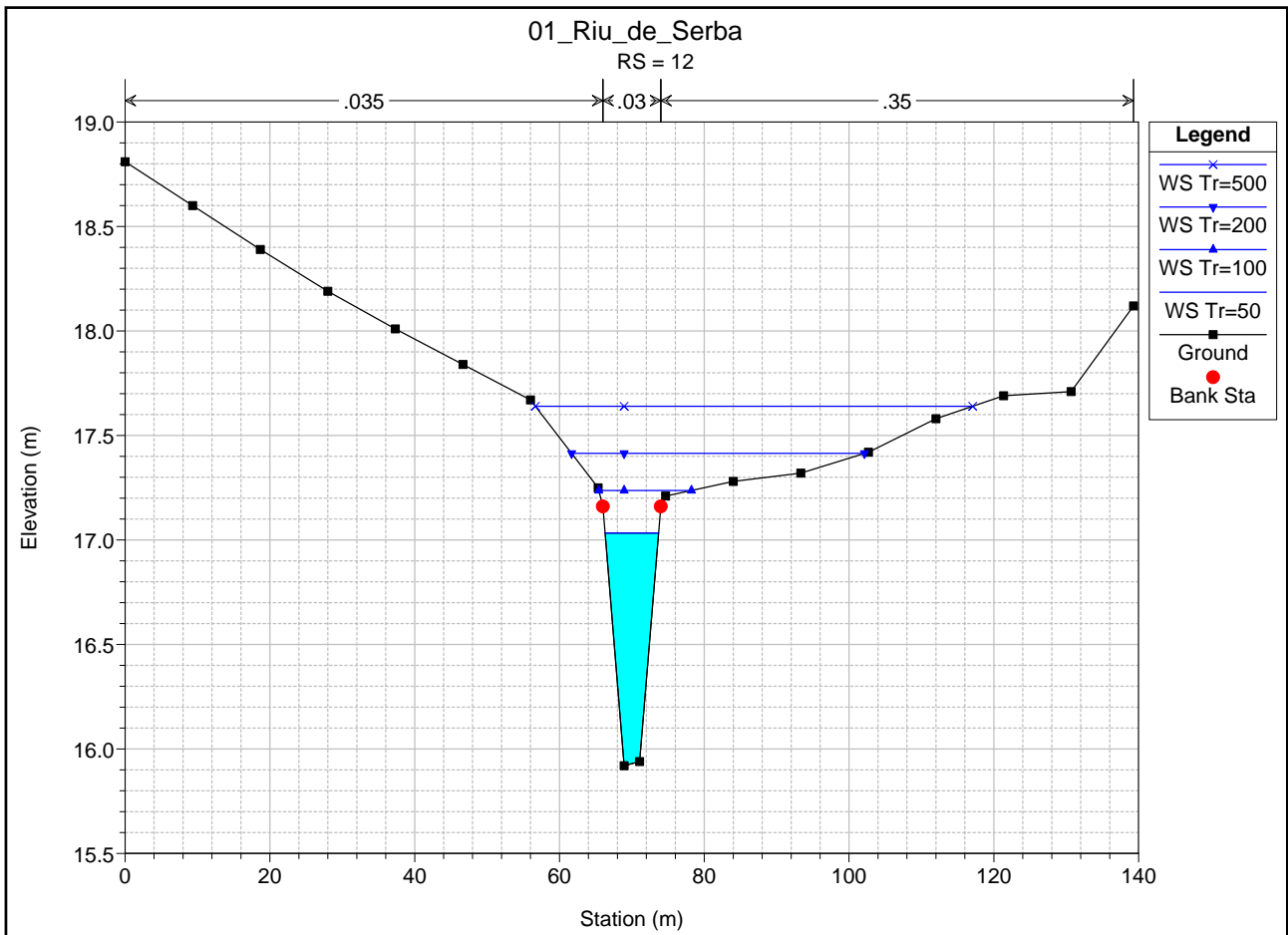


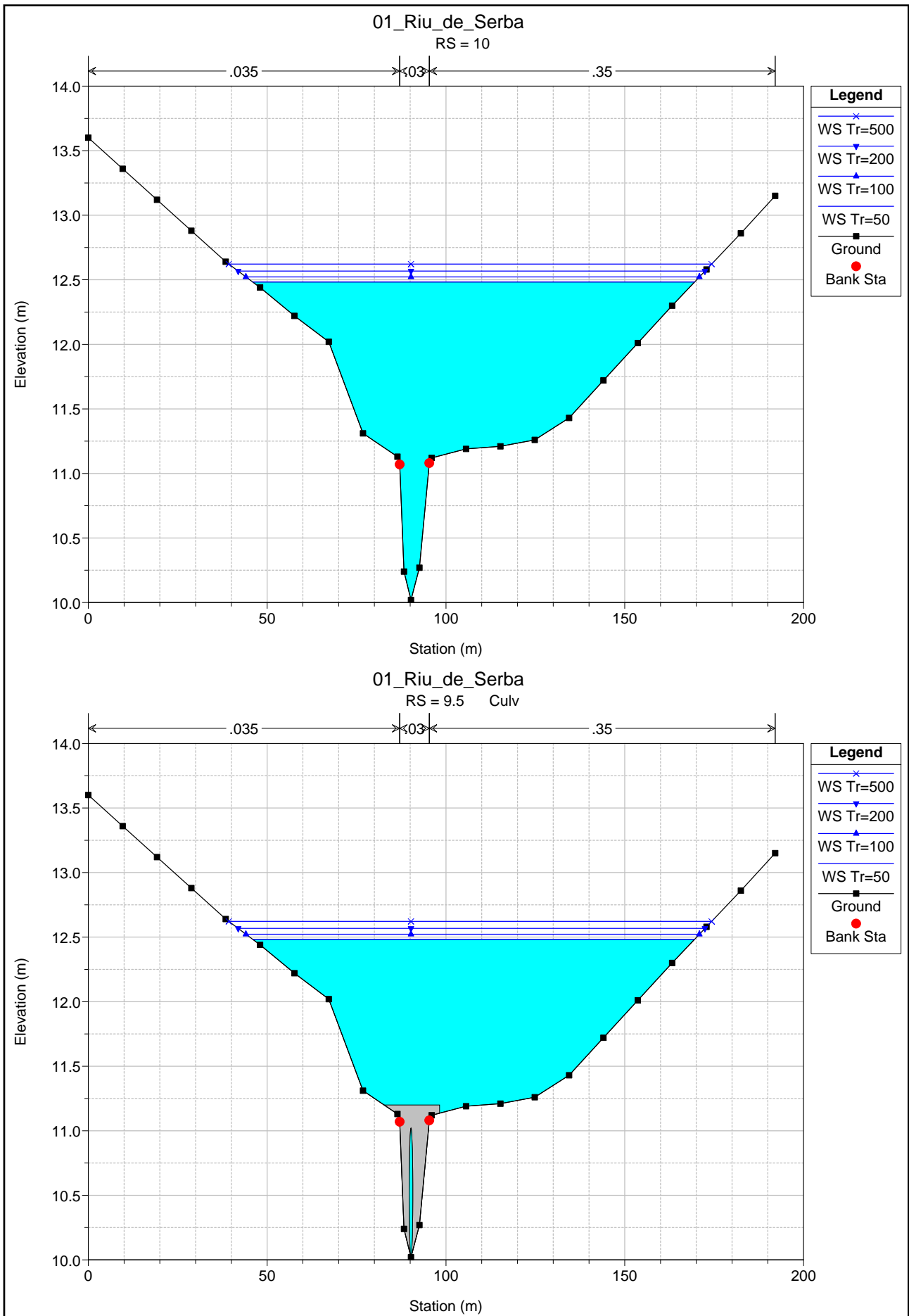


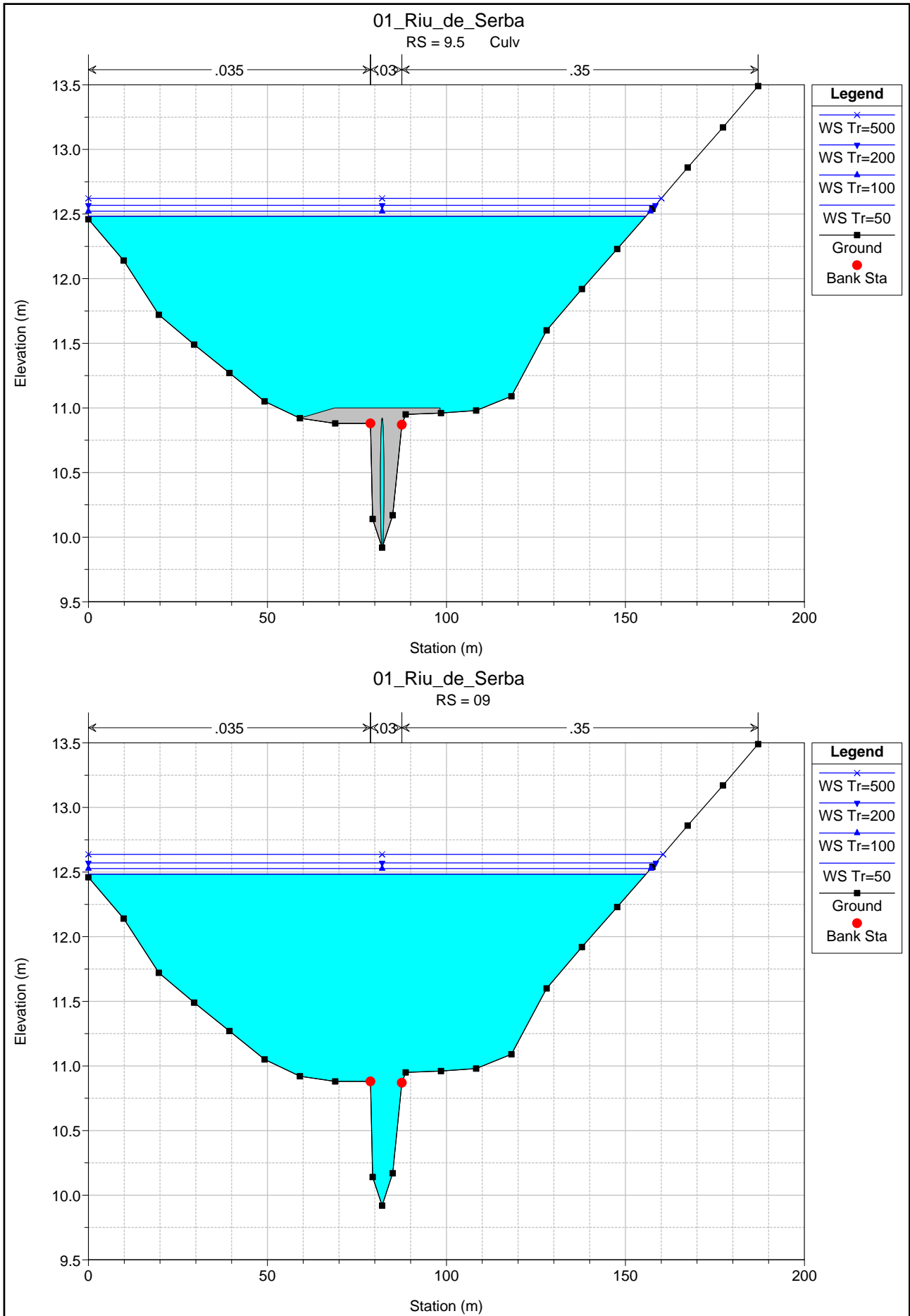


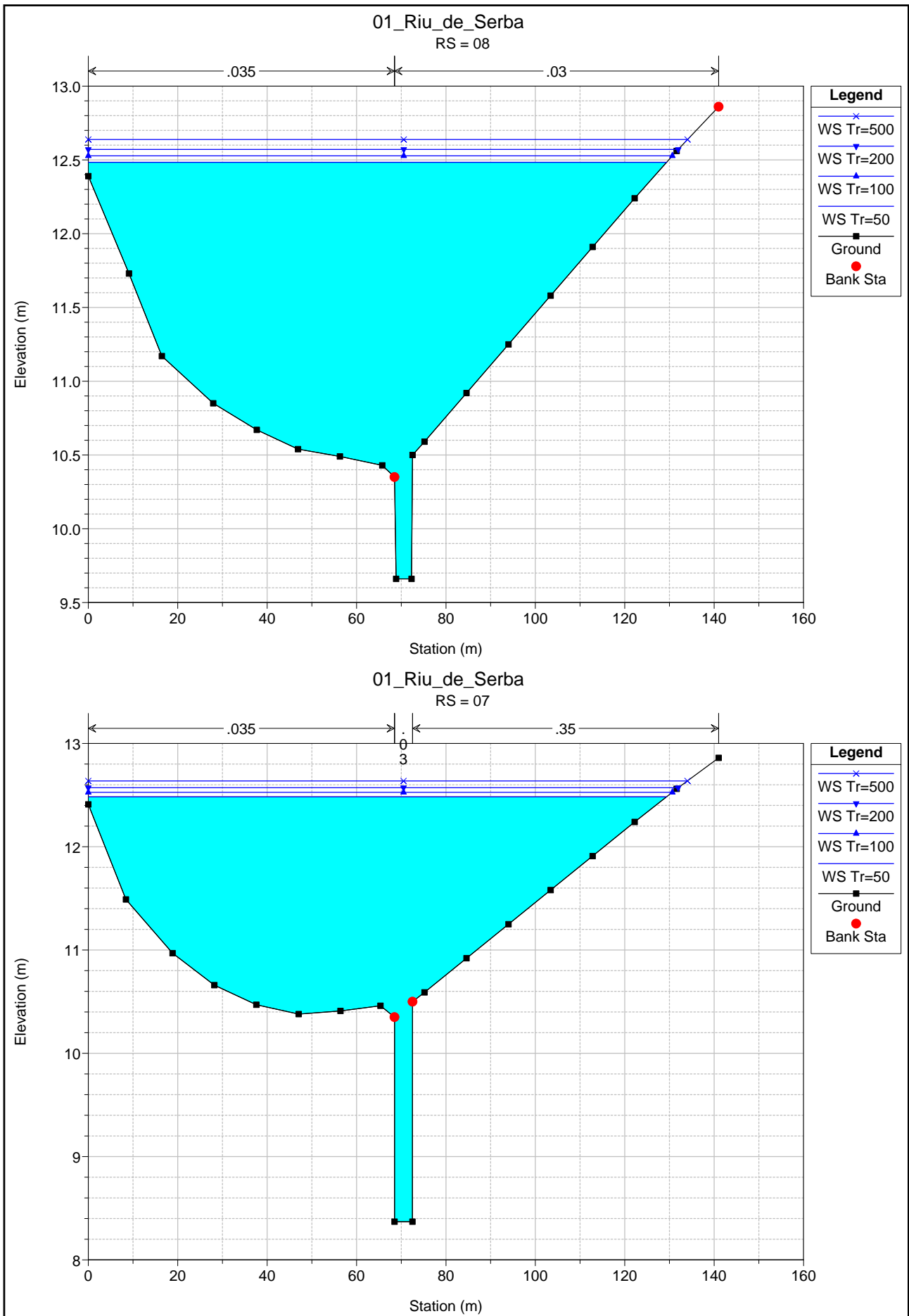


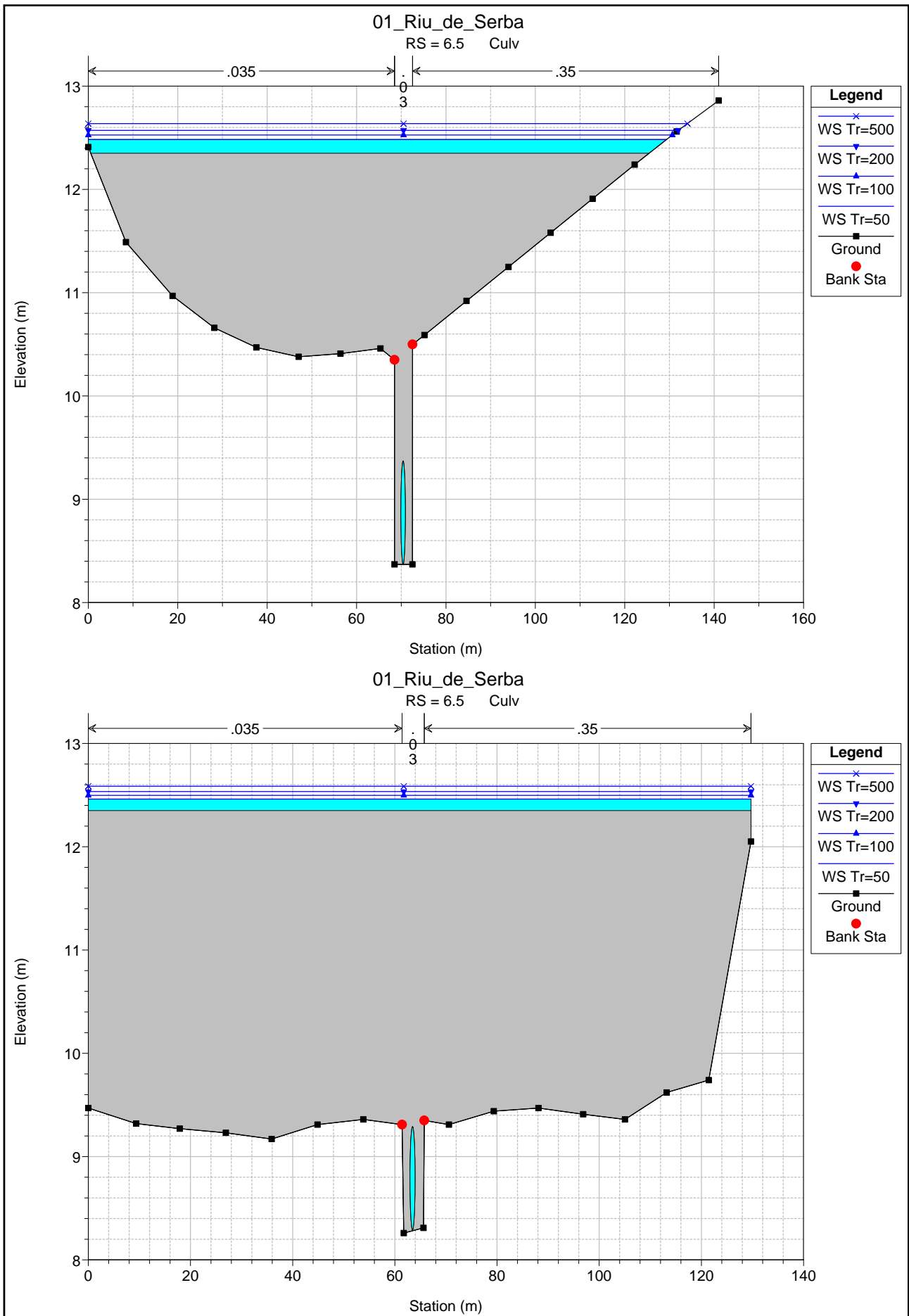


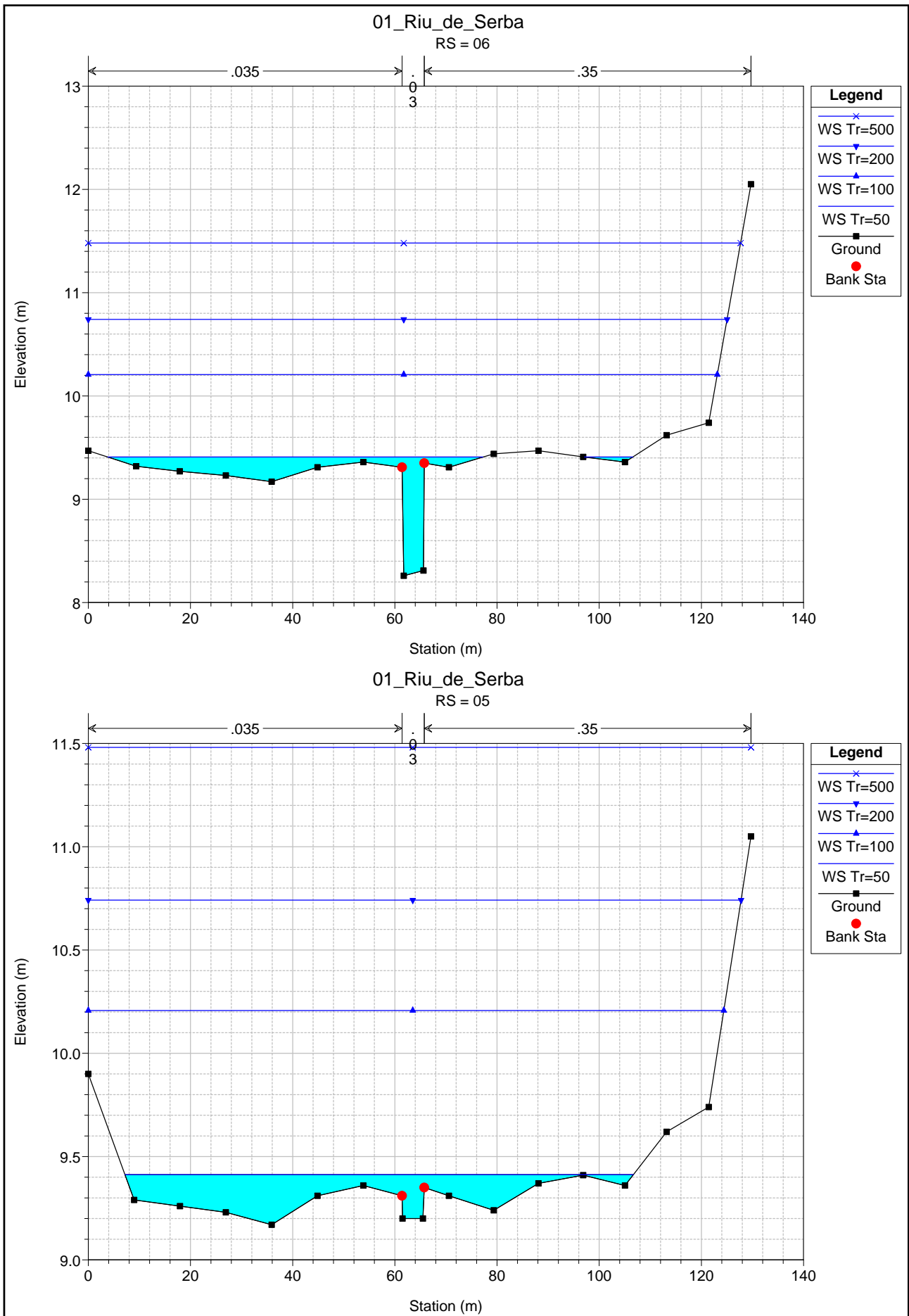


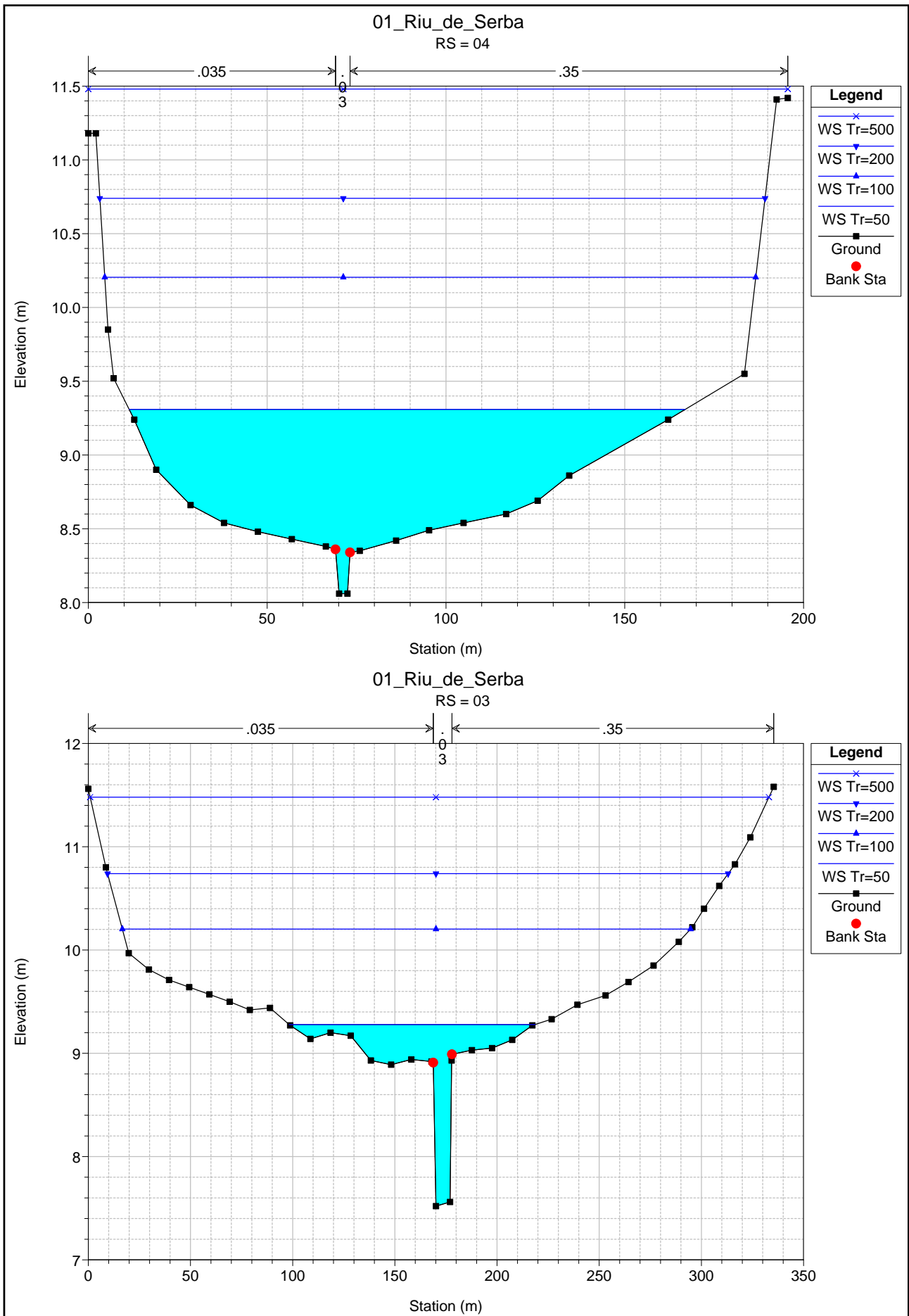


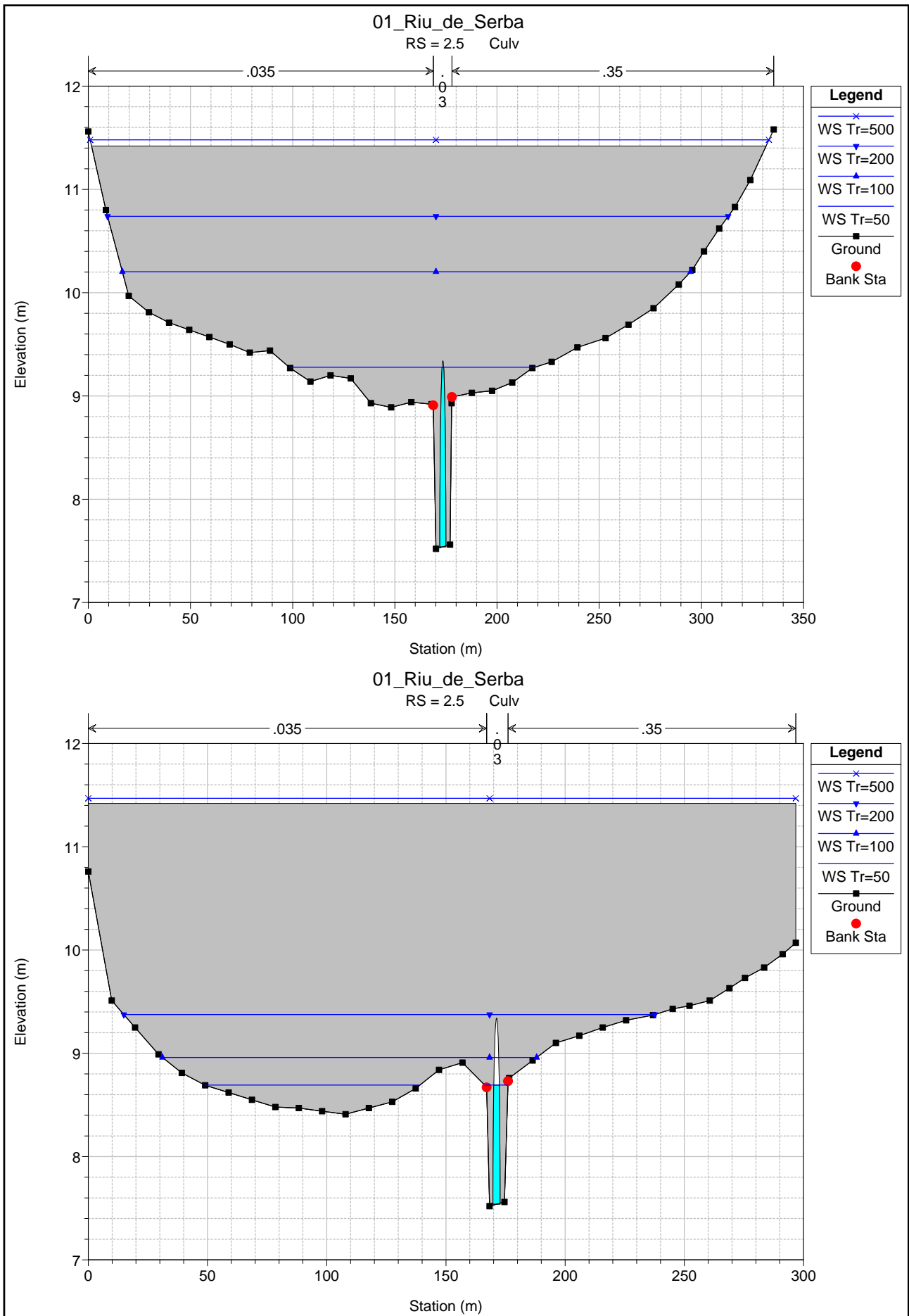


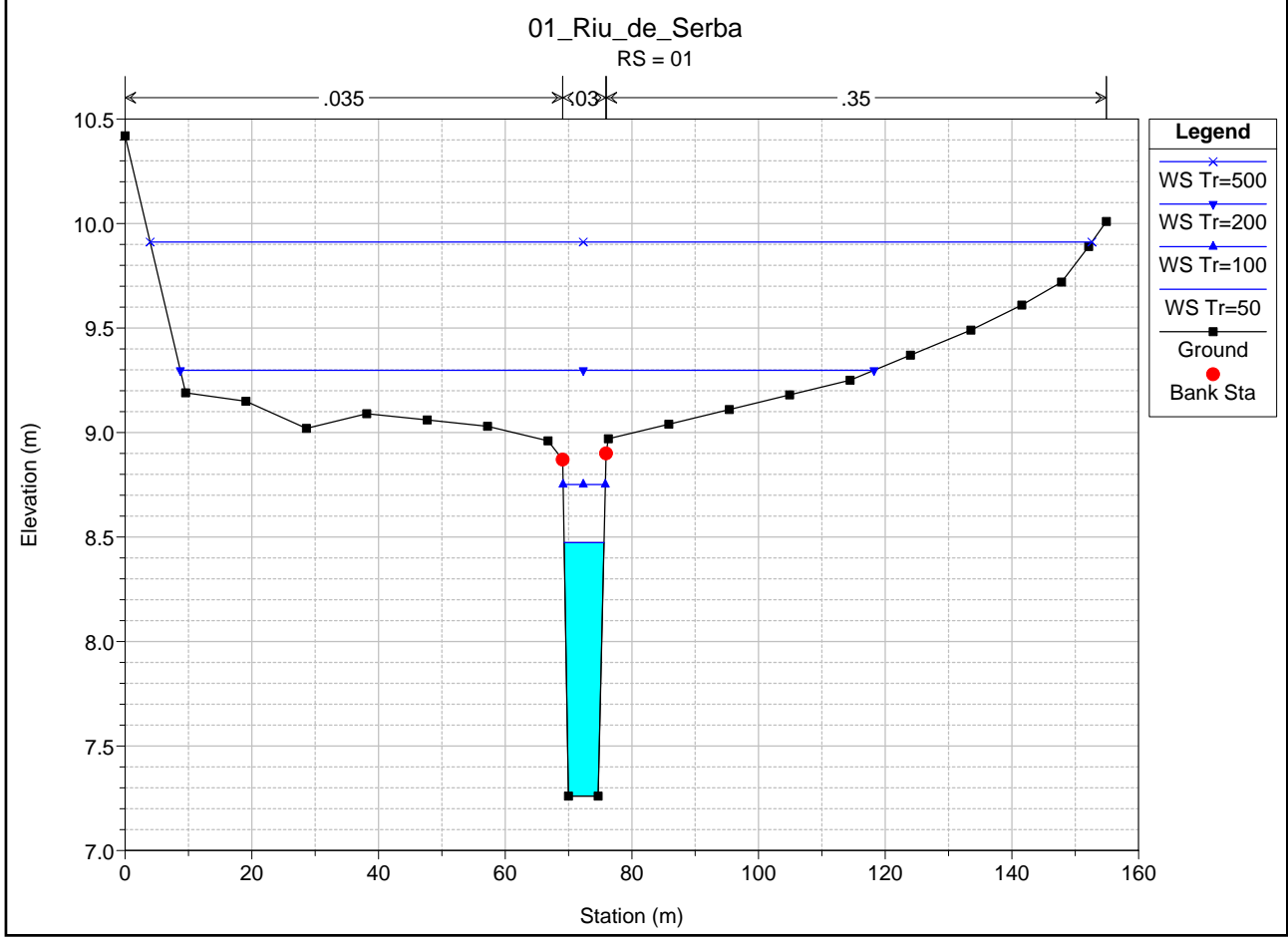
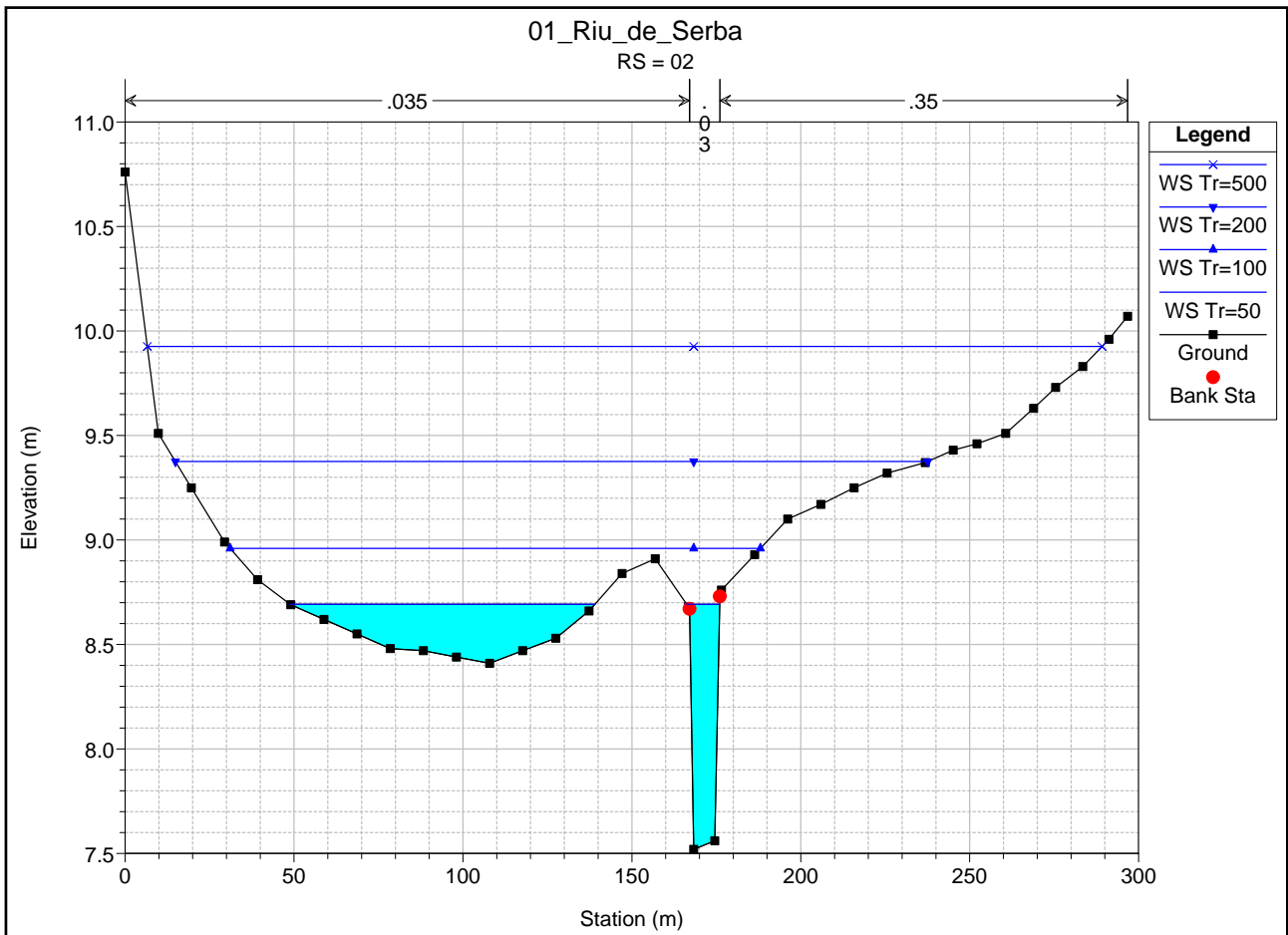


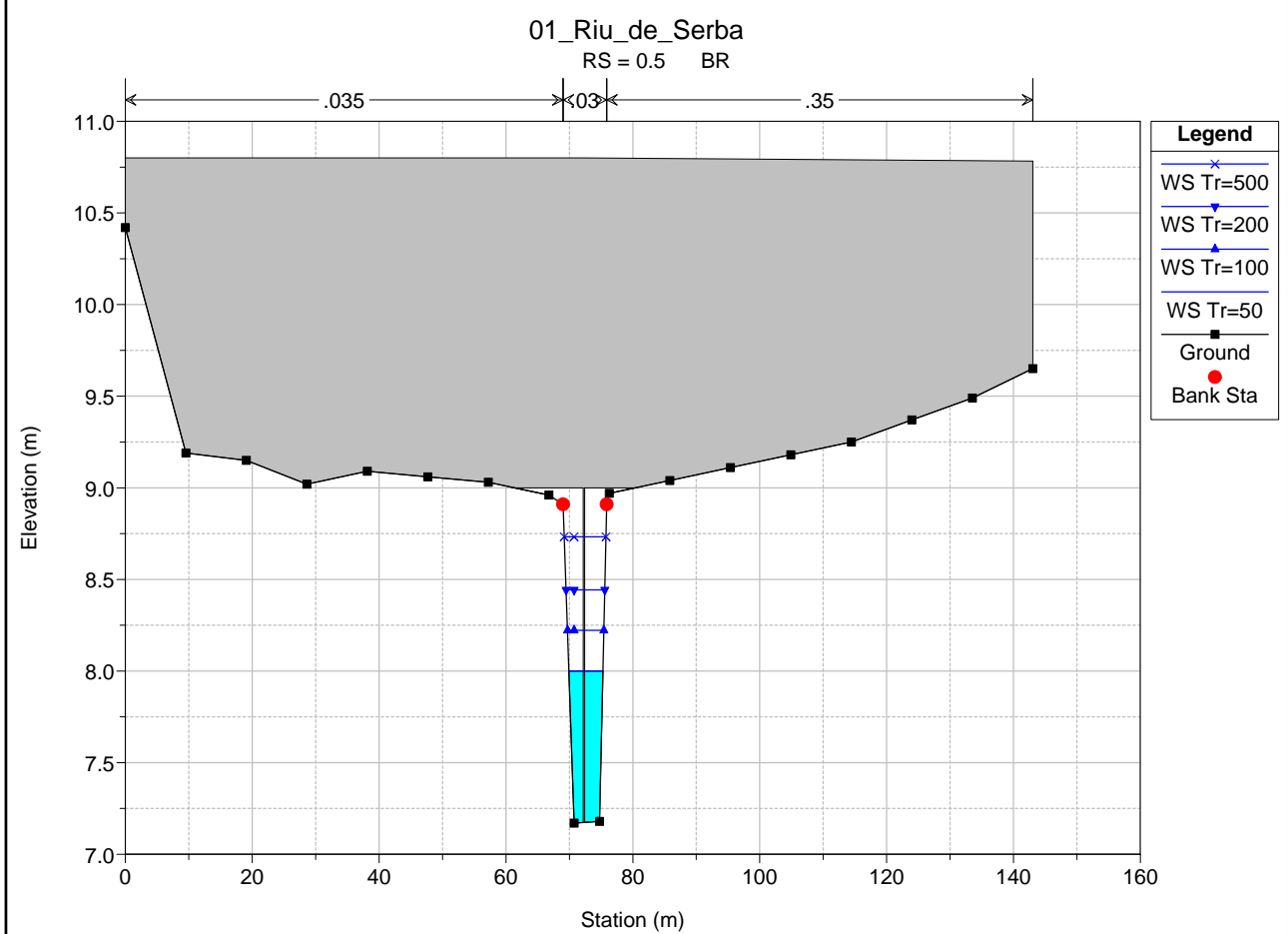
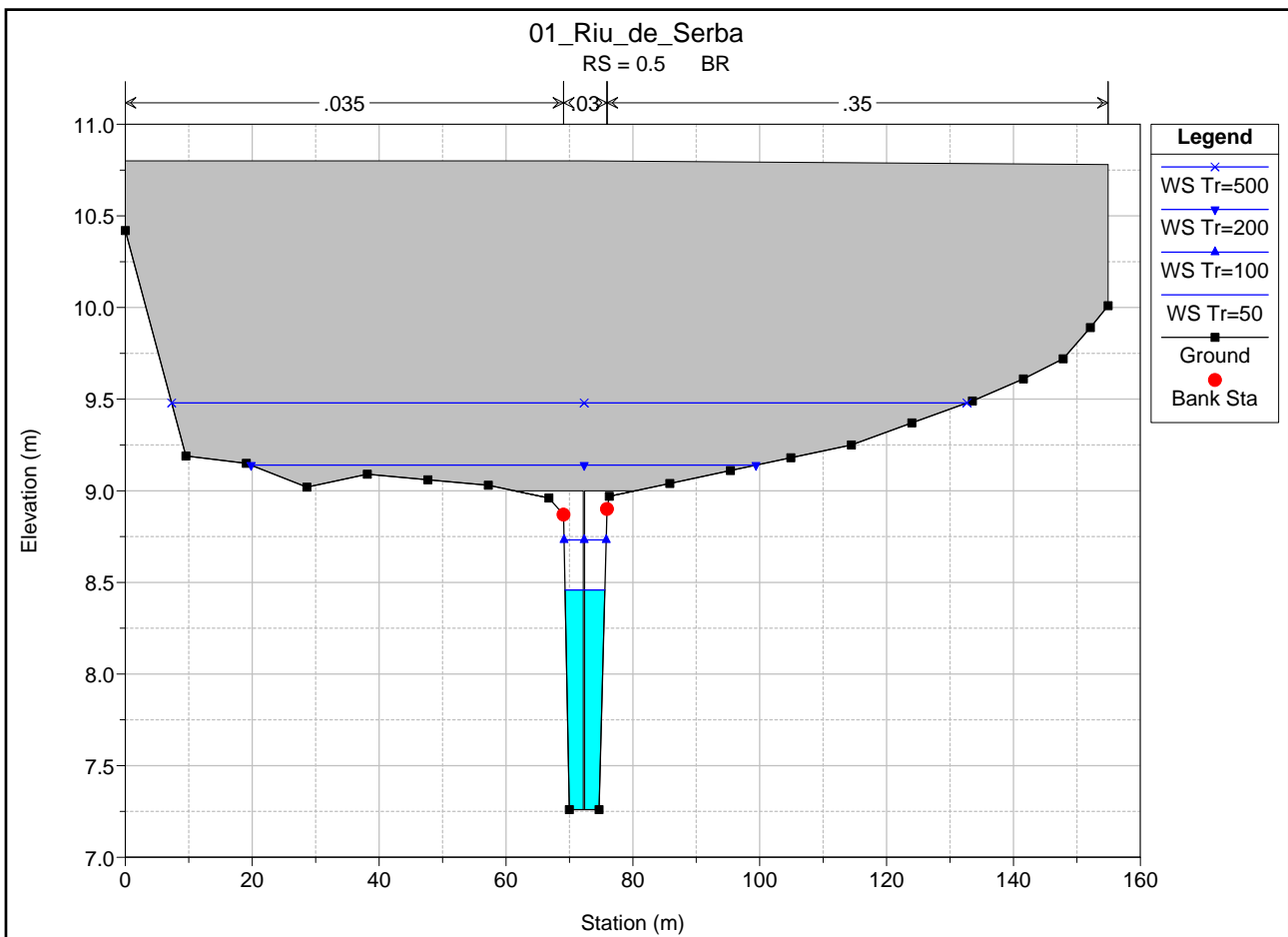




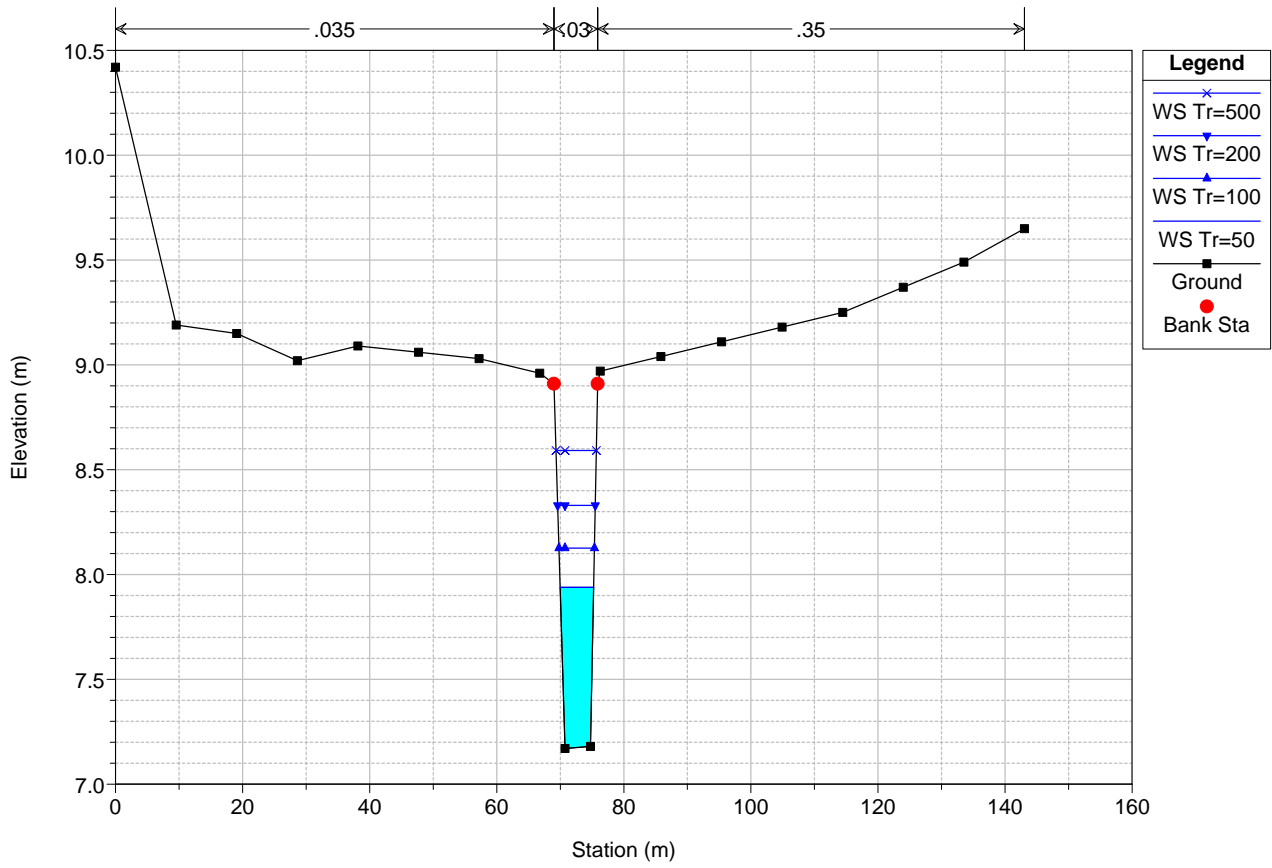






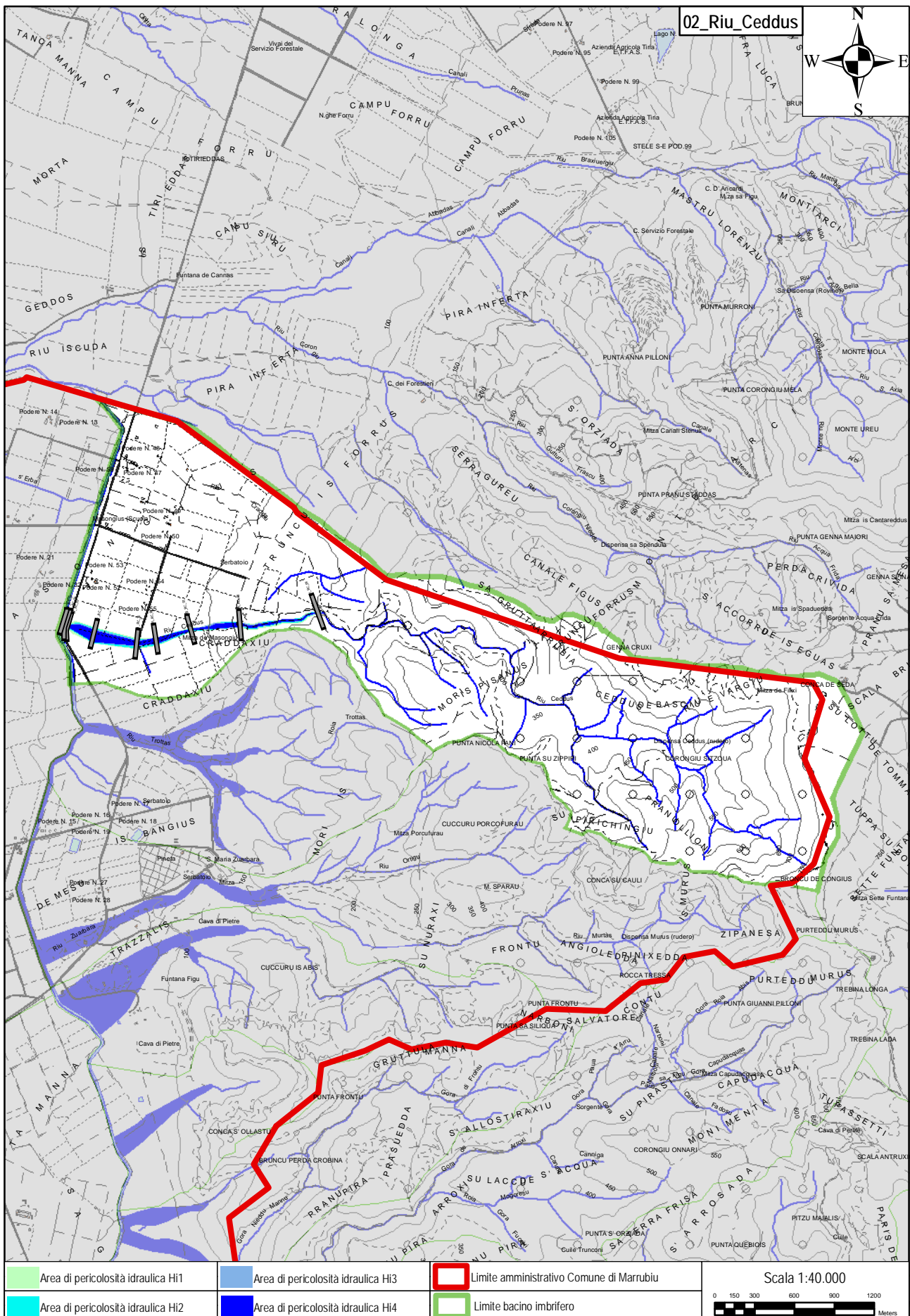


01_Riu_de_Serba
RS = 0



2. Riu Ceddus

Inquadramento



Principali grandezze morfometriche

RIU CEDDUS – sub-bacino n. 2			
Superficie del bacino	S	7,43	[km ²]
Altitudine massima	H_{max}	791,5	[m slm]
Altitudine minima	H_{min}	55,9	[m slm]
Altitudine media	H_{med}	349,7	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	735,6	[m]
Pendenza media del bacino	p_m	26,1	[%]
Lunghezza dell'asta principale	L	7,04	[km]
Pendenza dell'asta principale	i	9,8	[%]
Quota della sezione di chiusura	H_{min}	55,9	[m slm]
Curve Number	CN	66,89	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	1,85	[m/s]
Ventura	t_c	1,11	[m/s]
Giandotti	t_c	1,55	[m/s]
Pasini	t_c	1,29	[m/s]
VAPI	t_c	3,58	[m/s]
Viparelli	t_c	1,95	[m/s]

Portate di massima piena

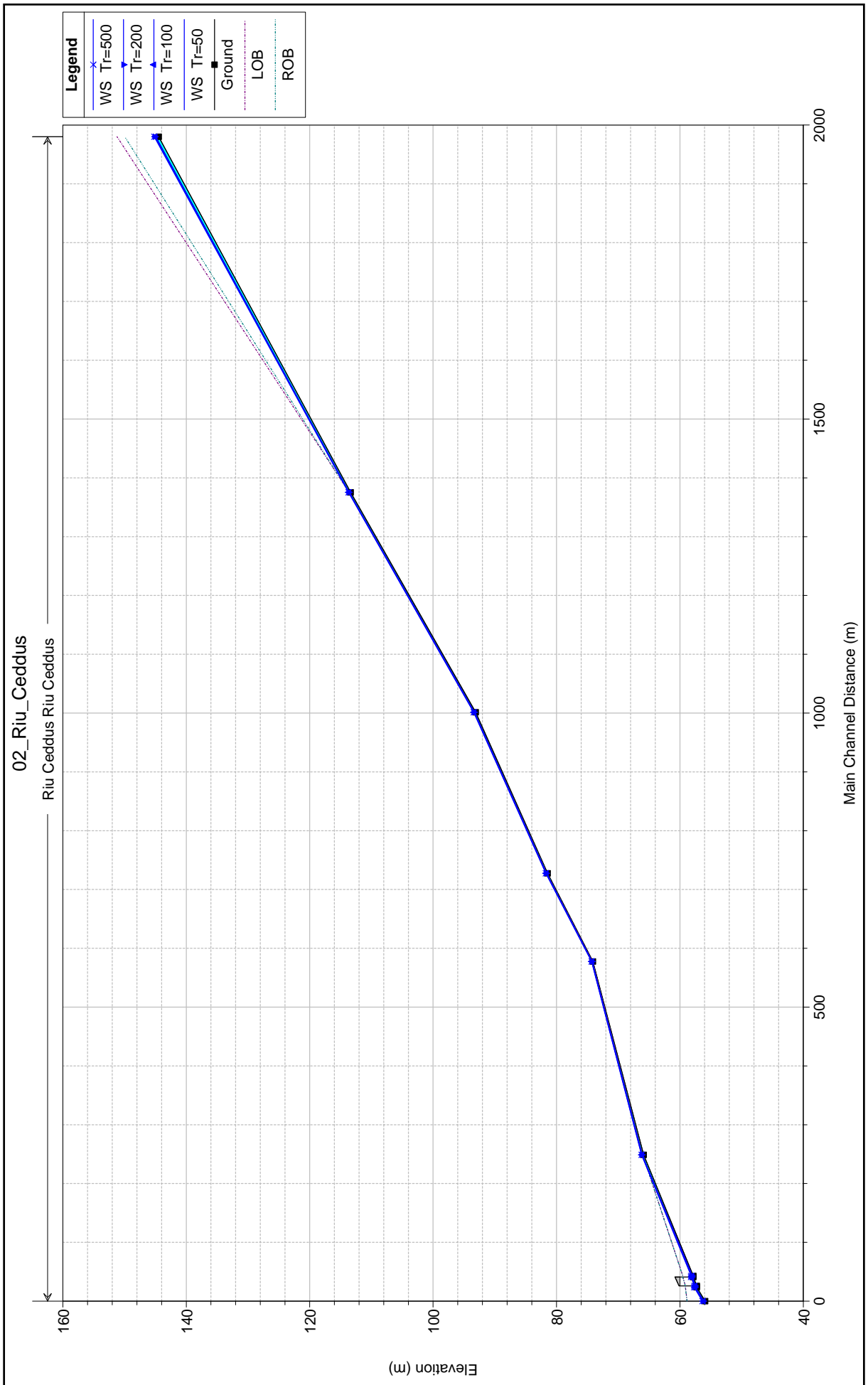
Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 09)	5,08	7,78	11,03	16,09	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

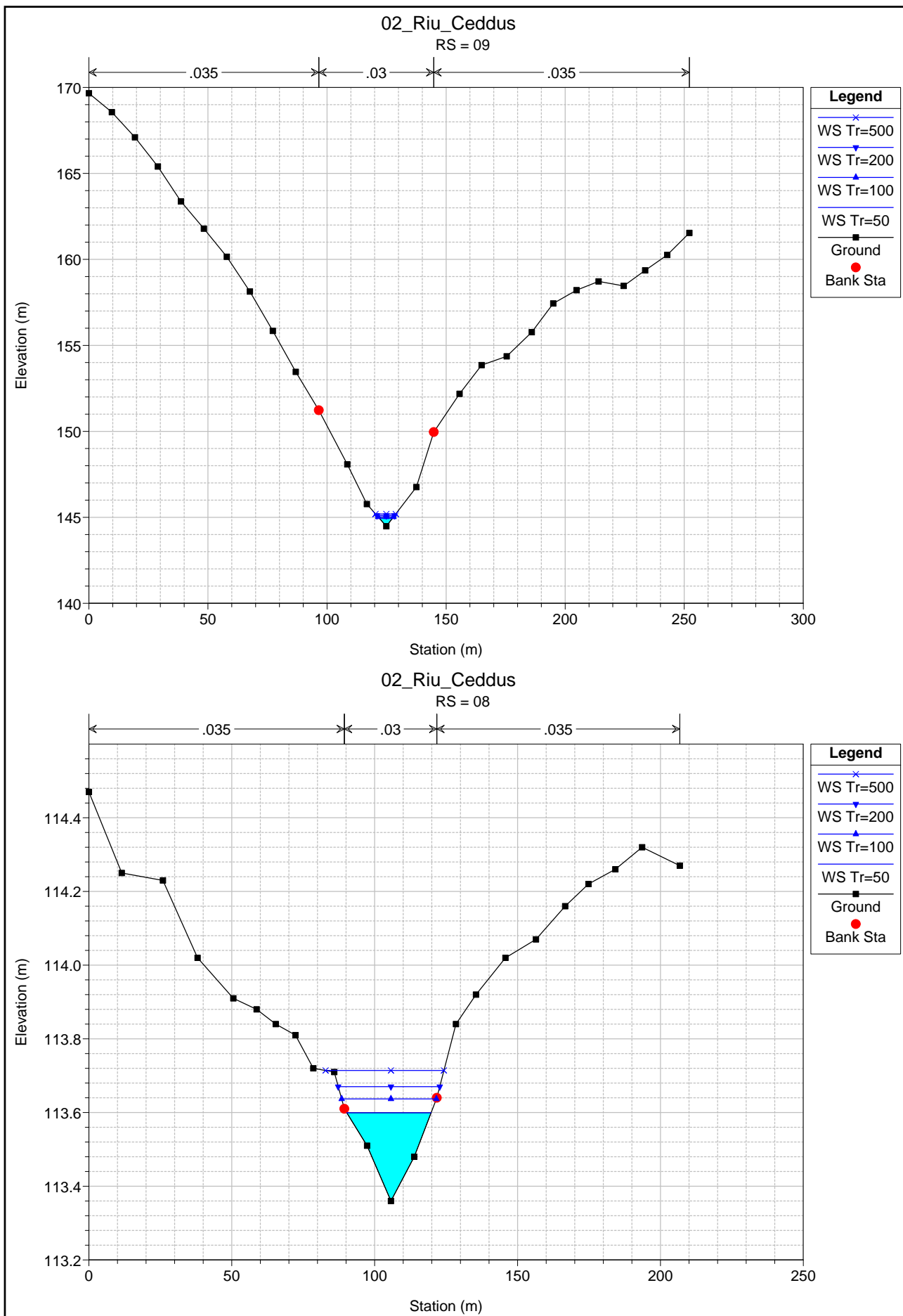
HEC-RAS Plan: 1 River: Riu Ceddus Reach: Riu Ceddus

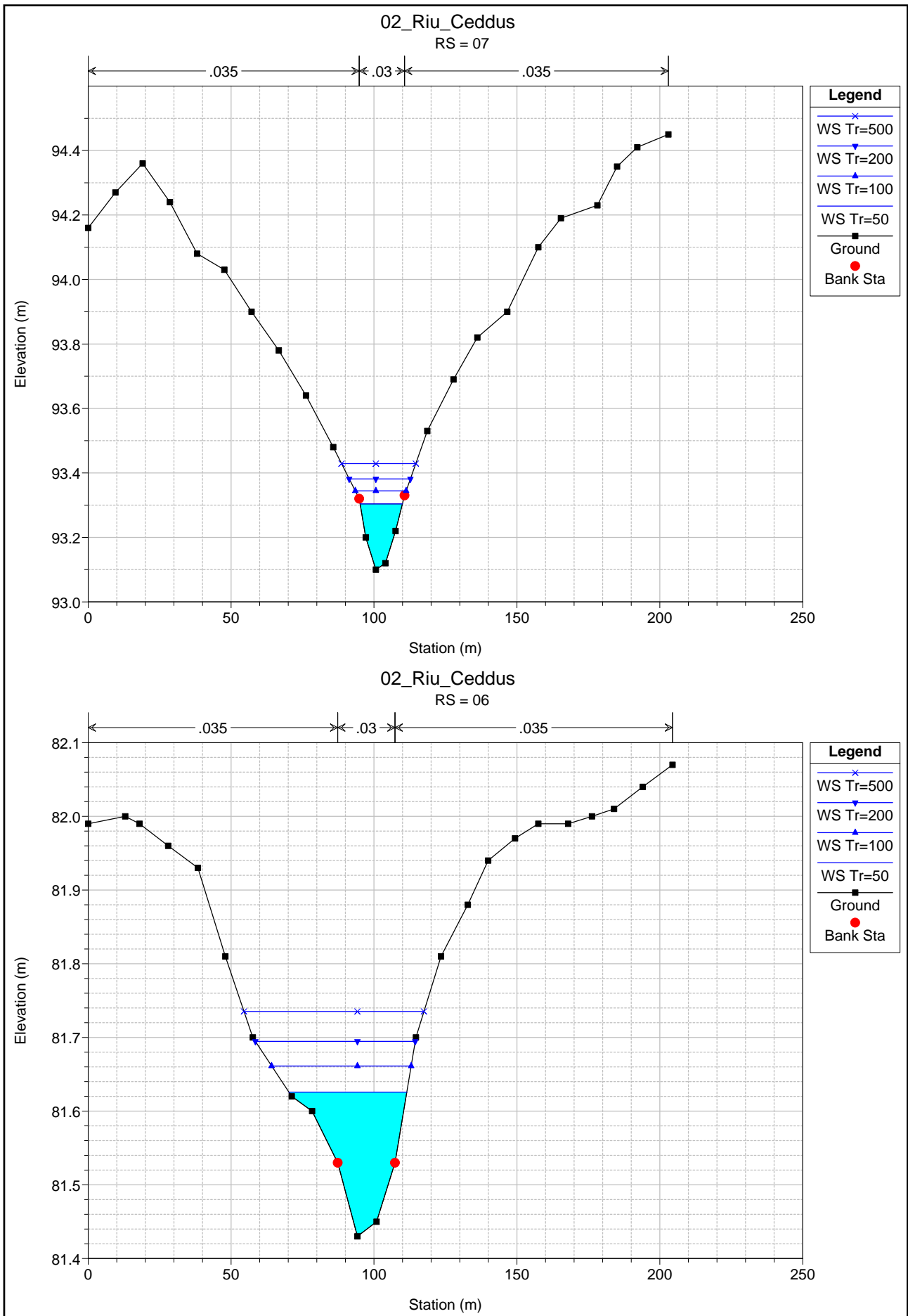
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Riu Ceddus	09	Tr=50	5.08	144.48	144.95	145.16	145.74	0.100080	3.95	1.29	5.52	2.62
Riu Ceddus	09	Tr=100	7.78	144.48	145.03	145.29	146.01	0.100116	4.40	1.77	6.48	2.69
Riu Ceddus	09	Tr=200	11.03	144.48	145.10	145.41	146.28	0.100144	4.80	2.30	7.39	2.75
Riu Ceddus	09	Tr=500	16.09	144.48	145.20	145.56	146.61	0.100156	5.27	3.05	8.51	2.81
Riu Ceddus	08	Tr=50	5.08	113.36	113.60	113.63	113.71	0.032398	1.45	3.50	29.52	1.34
Riu Ceddus	08	Tr=100	7.78	113.36	113.64	113.67	113.78	0.032632	1.66	4.69	33.17	1.39
Riu Ceddus	08	Tr=200	11.03	113.36	113.67	113.73	113.86	0.032858	1.91	5.83	35.52	1.45
Riu Ceddus	08	Tr=500	16.09	113.36	113.71	113.79	113.96	0.033135	2.22	7.46	41.46	1.51
Riu Ceddus	07	Tr=50	5.08	93.10	93.30	93.41	93.68	0.104521	2.71	1.87	14.82	2.44
Riu Ceddus	07	Tr=100	7.78	93.10	93.34	93.48	93.83	0.101876	3.10	2.52	17.82	2.50
Riu Ceddus	07	Tr=200	11.03	93.10	93.38	93.55	94.01	0.099196	3.53	3.25	21.40	2.55
Riu Ceddus	07	Tr=500	16.09	93.10	93.43	93.63	94.22	0.096235	4.02	4.37	25.98	2.60
Riu Ceddus	06	Tr=50	5.08	81.43	81.63	81.66	81.73	0.023558	1.48	3.98	41.25	1.20
Riu Ceddus	06	Tr=100	7.78	81.43	81.66	81.70	81.79	0.024048	1.72	5.58	48.80	1.25
Riu Ceddus	06	Tr=200	11.03	81.43	81.69	81.74	81.85	0.024609	1.93	7.33	55.92	1.30
Riu Ceddus	06	Tr=500	16.09	81.43	81.74	81.79	81.93	0.025295	2.19	9.75	62.97	1.36
Riu Ceddus	05	Tr=50	5.08	74.10	74.24	74.32	74.57	0.142347	2.64	2.17	35.81	2.72
Riu Ceddus	05	Tr=100	7.78	74.10	74.26	74.35	74.66	0.133273	2.98	3.20	46.45	2.73
Riu Ceddus	05	Tr=200	11.03	74.10	74.29	74.38	74.74	0.125318	3.27	4.51	64.01	2.73
Riu Ceddus	05	Tr=500	16.09	74.10	74.31	74.41	74.80	0.118524	3.56	6.45	77.41	2.73
Riu Ceddus	04	Tr=50	5.08	65.87	66.12	66.13	66.17	0.010152	1.13	7.23	86.95	0.82
Riu Ceddus	04	Tr=100	7.78	65.87	66.16	66.15	66.20	0.009778	1.23	10.33	99.81	0.82
Riu Ceddus	04	Tr=200	11.03	65.87	66.18	66.18	66.24	0.010580	1.38	13.15	110.07	0.87
Riu Ceddus	04	Tr=500	16.09	65.87	66.22	66.22	66.28	0.010847	1.52	17.34	121.70	0.90
Riu Ceddus	03	Tr=50	5.08	57.84	57.97	58.24	60.06	0.279656	6.41	0.79	6.59	5.90
Riu Ceddus	03	Tr=100	7.78	57.84	58.03	58.36	60.19	0.176901	6.51	1.20	6.86	4.98
Riu Ceddus	03	Tr=200	11.03	57.84	58.10	58.49	60.38	0.129493	6.69	1.65	7.15	4.45
Riu Ceddus	03	Tr=500	16.09	57.84	58.18	58.65	60.74	0.101901	7.08	2.27	7.54	4.12
Riu Ceddus	2.5		Bridge									
Riu Ceddus	02	Tr=50	5.08	57.27	57.50	57.66	58.03	0.031985	3.22	1.58	7.17	2.19
Riu Ceddus	02	Tr=100	7.78	57.27	57.57	57.78	58.32	0.034053	3.84	2.03	7.41	2.34
Riu Ceddus	02	Tr=200	11.03	57.27	57.62	57.90	58.67	0.038805	4.53	2.43	7.61	2.56
Riu Ceddus	02	Tr=500	16.09	57.27	57.70	58.07	59.15	0.042628	5.34	3.02	7.90	2.76
Riu Ceddus	01	Tr=50	5.08	55.92	56.12	56.33	56.98	0.061970	4.10	1.24	6.37	2.97
Riu Ceddus	01	Tr=100	7.78	55.92	56.19	56.46	57.28	0.054460	4.63	1.68	6.50	2.90
Riu Ceddus	01	Tr=200	11.03	55.92	56.26	56.59	57.60	0.050045	5.13	2.15	6.62	2.87
Riu Ceddus	01	Tr=500	16.09	55.92	56.35	56.78	58.06	0.047365	5.78	2.78	6.79	2.88

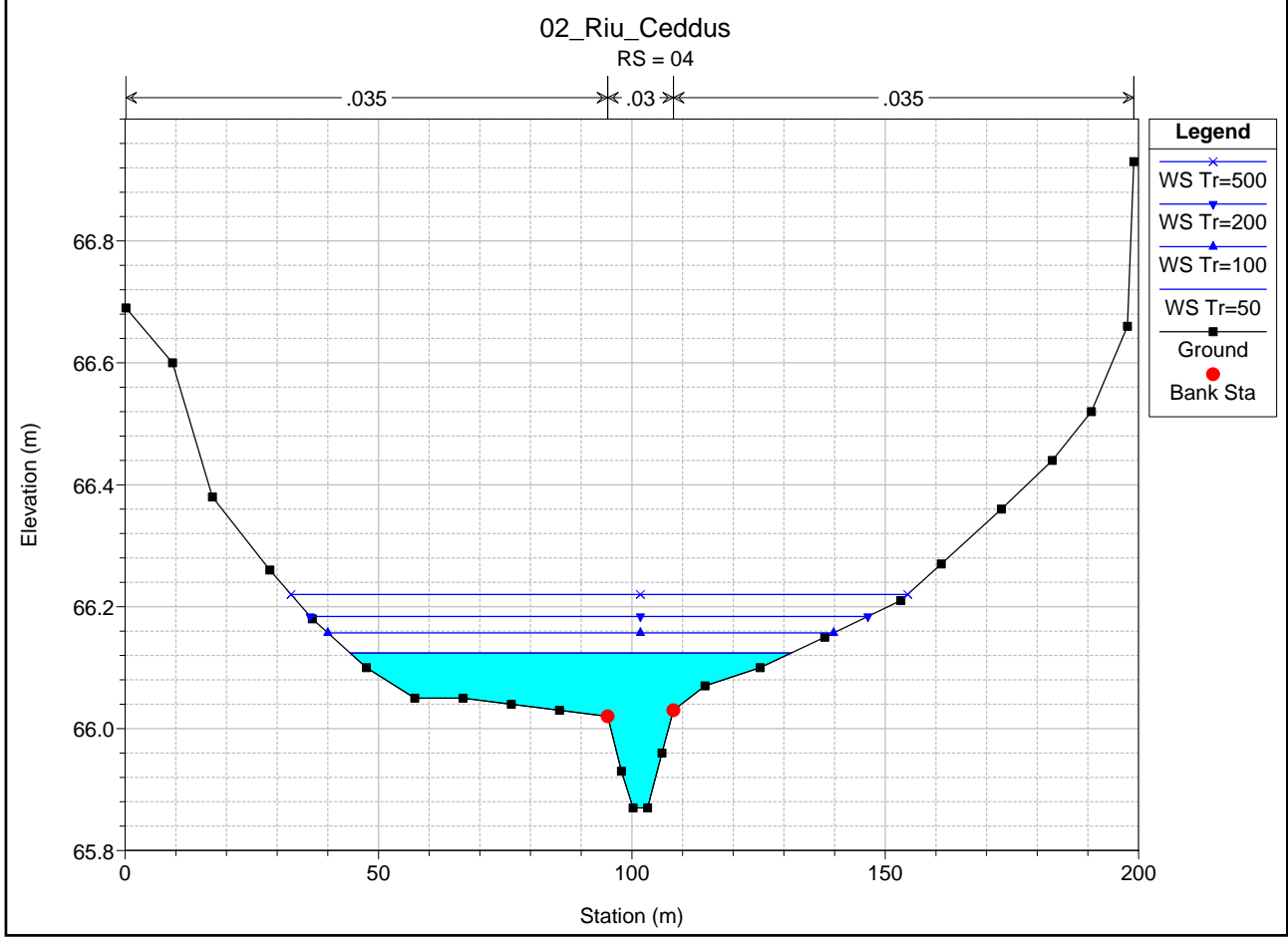
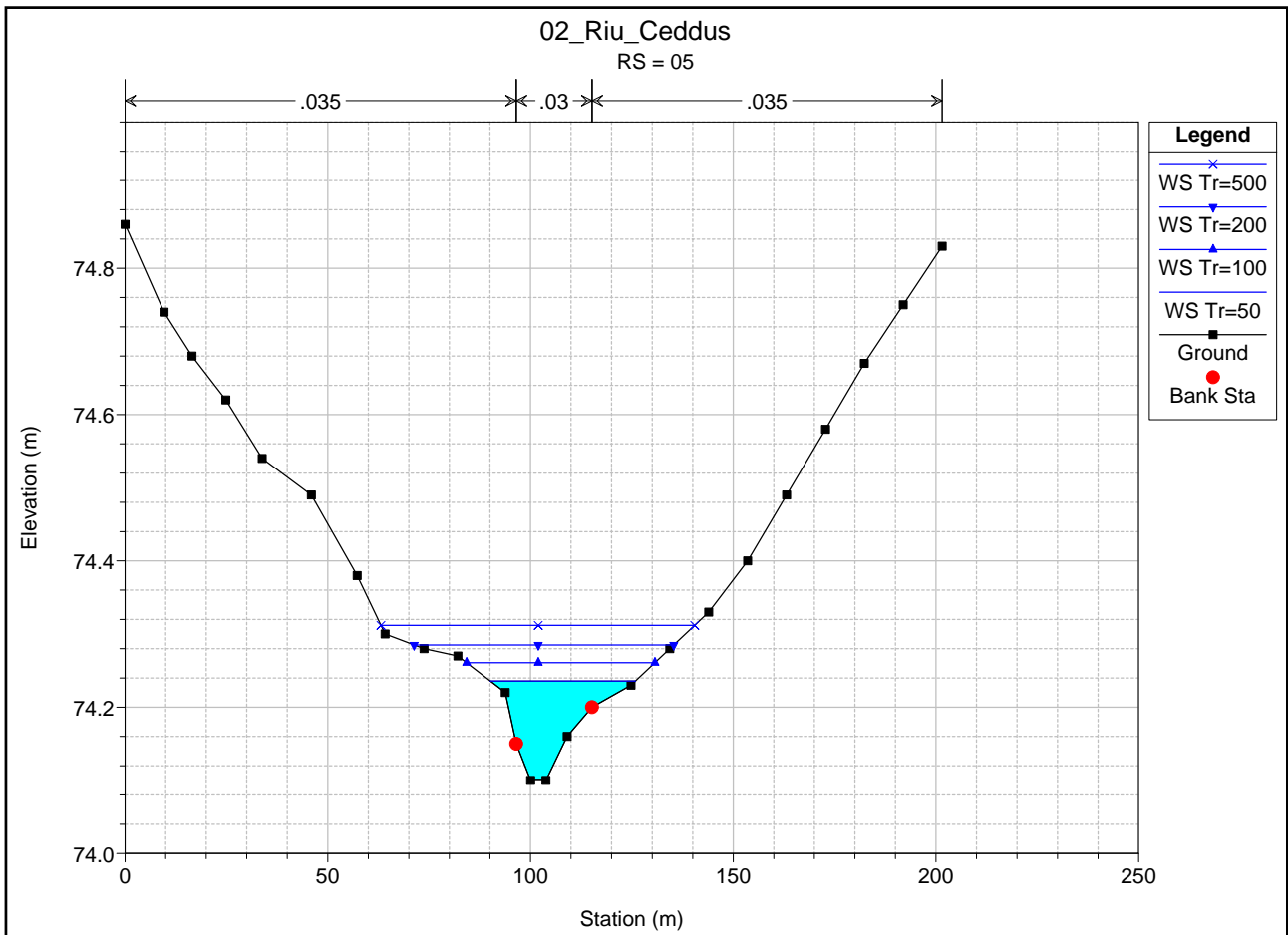
Profilo

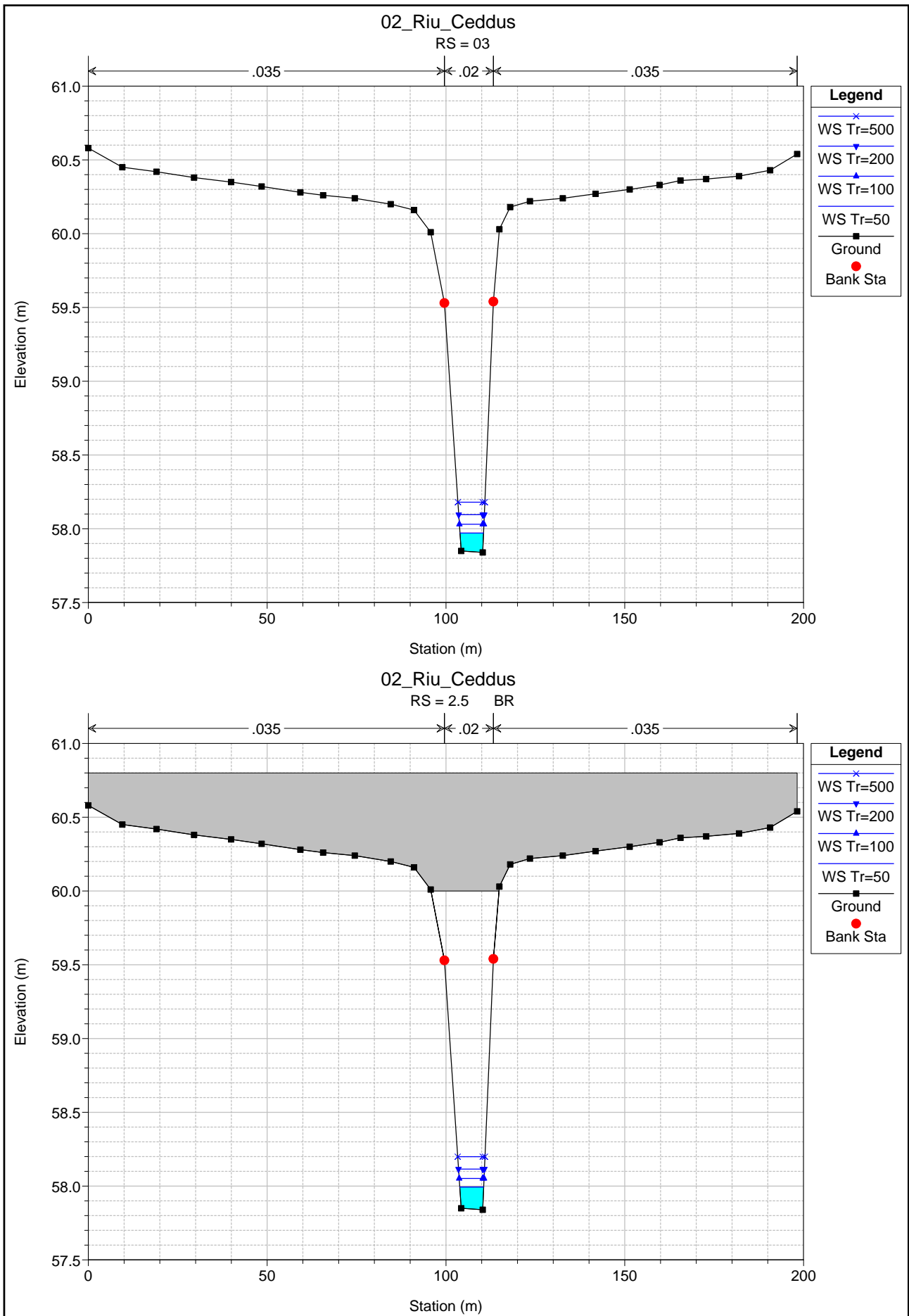


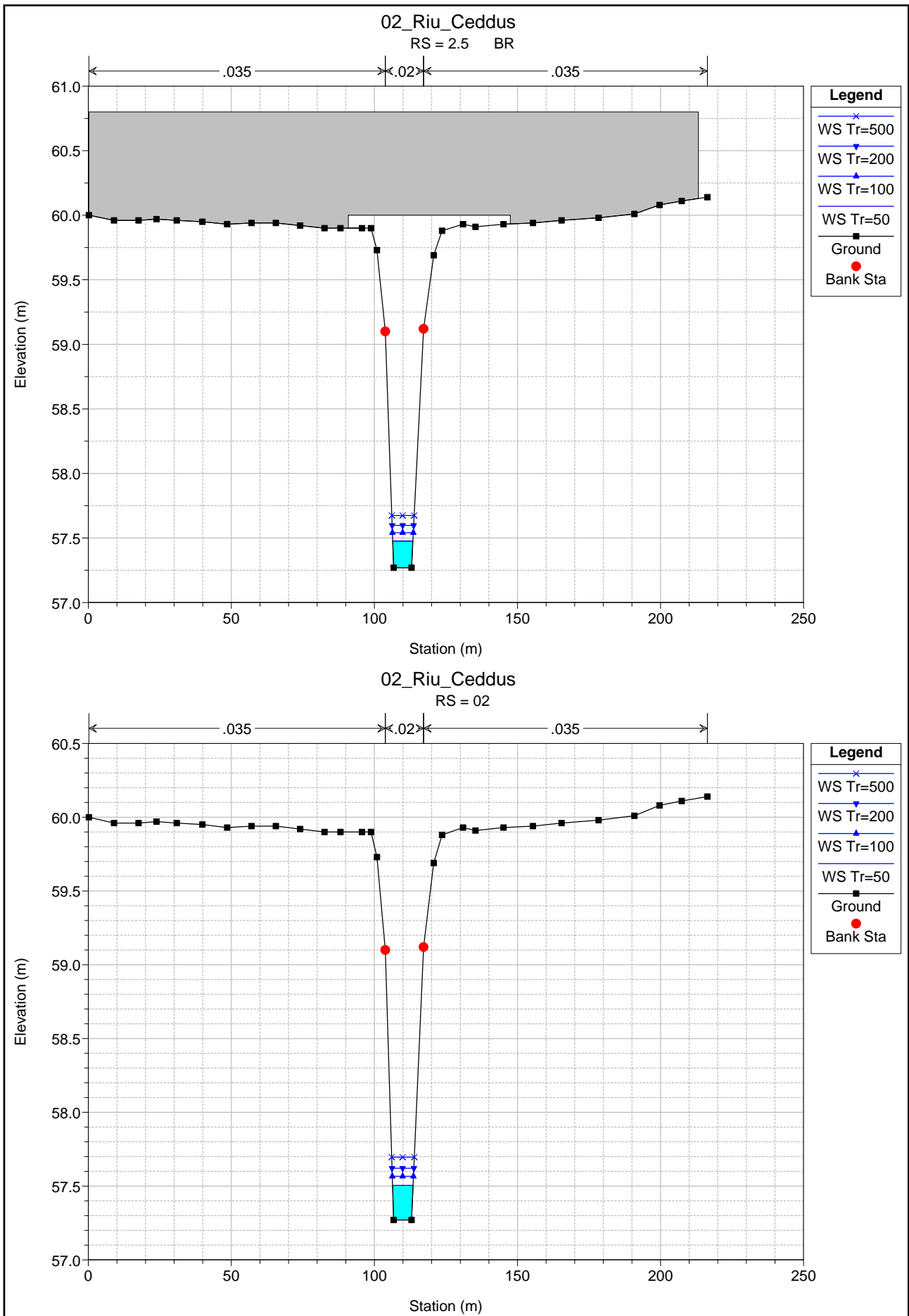
Sezioni fluviali relative ai tempi di ritorno considerati

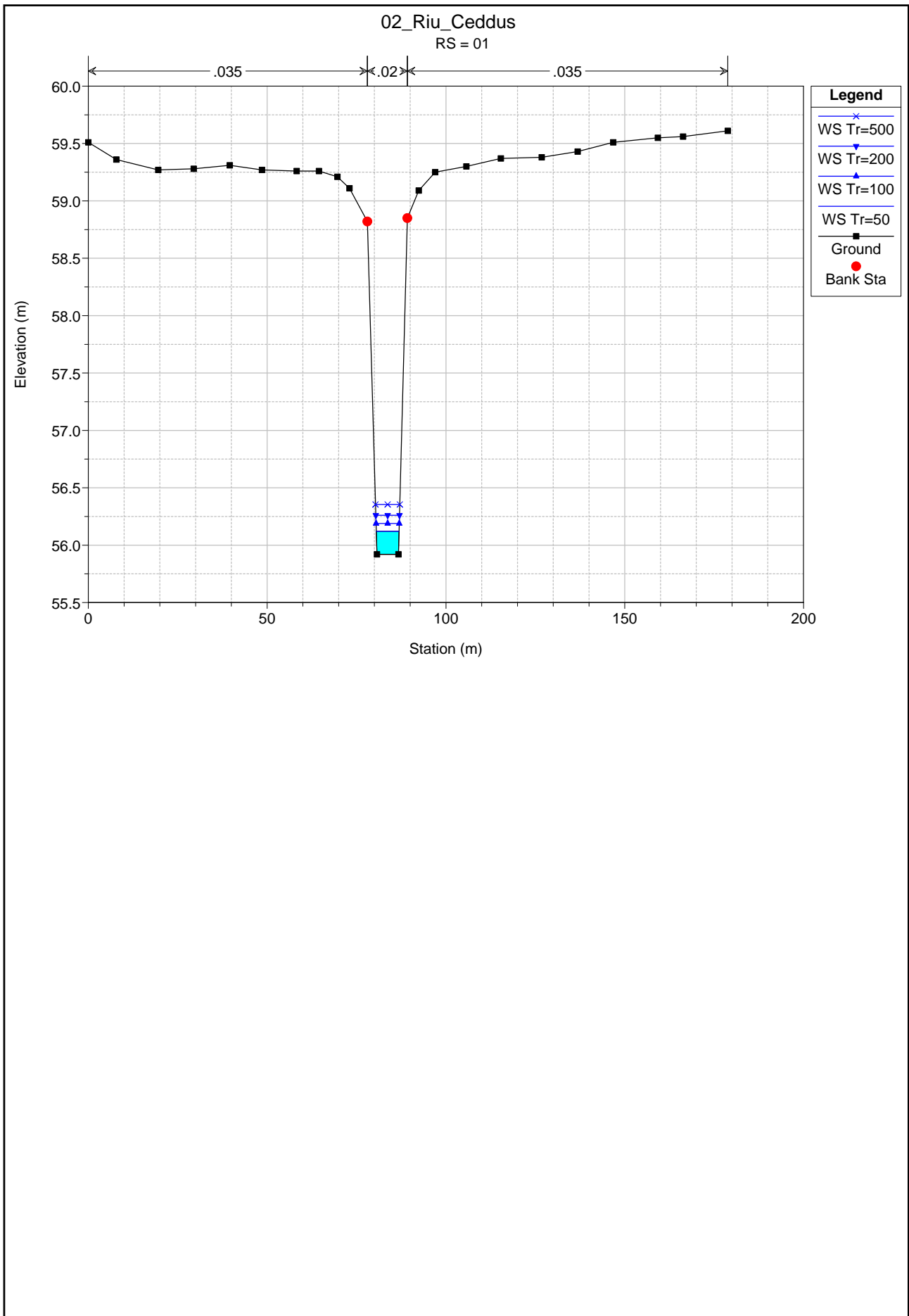






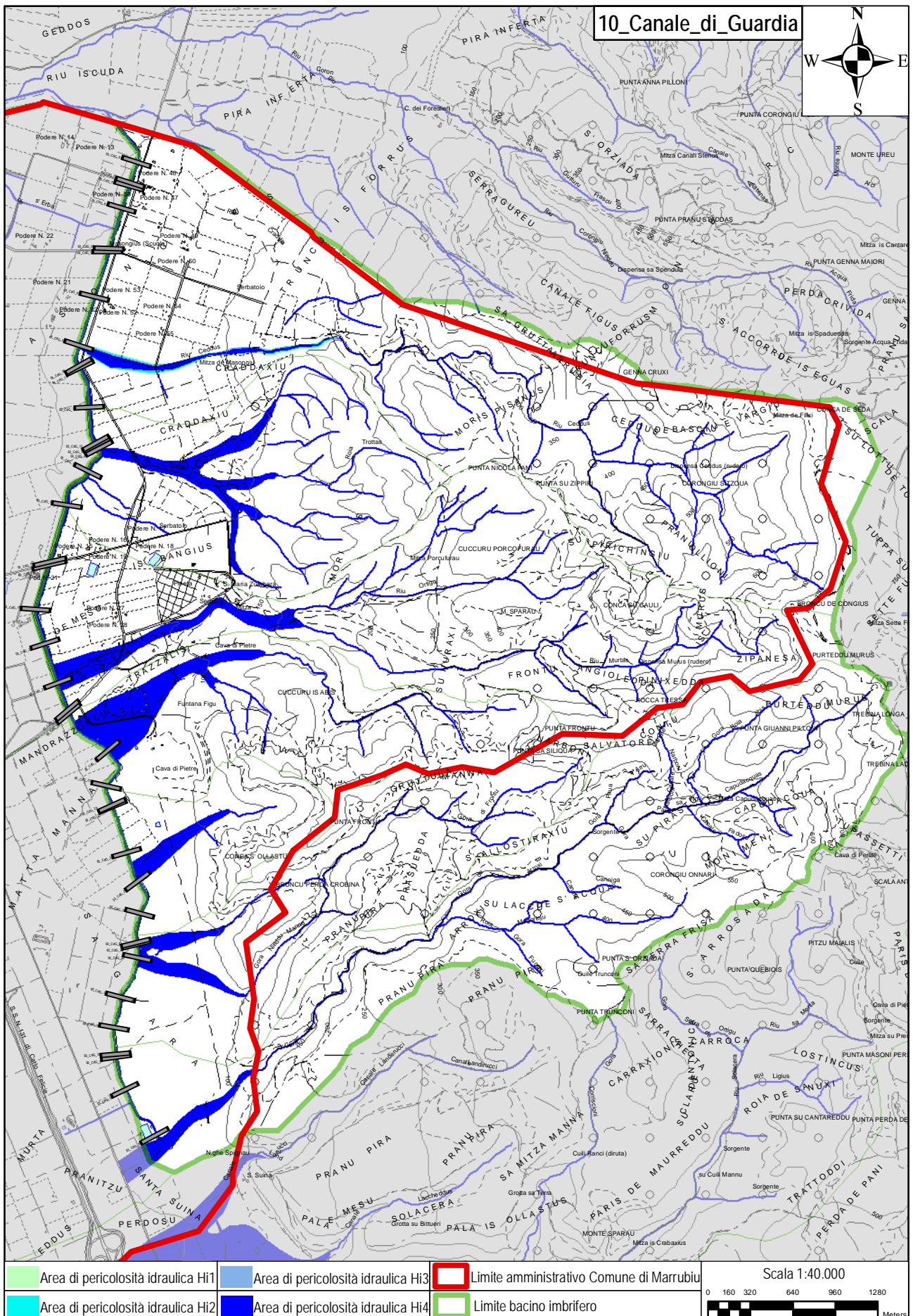






3. Canale di guardia Diversivo Sant'Anna

Inquadramento



Principali grandezze morfometriche

CANALE DI GUARDIA DIVERSIVO SANT'ANNA – sub-bacino n. 10			
Superficie del bacino	S	30,23	[km ²]
Altitudine massima	H_{max}	61,8	[m slm]
Altitudine minima	H_{min}	48,9	[m slm]
Altitudine media	H_{med}	60,3	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	12,9	[m]
Pendenza media del bacino	p_m	0,2	[%]
Lunghezza dell'asta principale	L	8,0	[km]
Pendenza dell'asta principale	i	0,2	[%]
Quota della sezione di chiusura	H_{min}	48,9	[m slm]
Curve Number	CN	- (*)	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	5,62	[m/s]
Ventura	t_c	16,26	[m/s]
Giandotti	t_c	15,62	[m/s]
Pasini	t_c	15,60	[m/s]
VAPI	t_c	9,40	[m/s]
Viparelli	t_c	2,32	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 39)	3,33	5,30	7,74	11,64	[m ³ /s]
TCEV (sez. 33)	6,57	10,25	14,74	21,84	[m ³ /s]
TCEV (sez. 28)	8,24	12,66	17,99	26,35	[m ³ /s]
TCEV (sez. 24)	11,86	18,01	25,36	36,32	[m ³ /s]
TCEV (sez. 21)	15,85	24,19	34,22	49,86	[m ³ /s]
TCEV (sez. 14)	20,60	31,10	43,63	63,07	[m ³ /s]
TCEV (sez. 08)	25,68	38,88	54,66	79,16	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

HEC-RAS Plan: 1 River: C. di Guardia Reach: C. di Guardia

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
C. di Guardia	39	Tr=50	3.33	61.97	62.54	62.23	62.56	0.001438	0.68	4.87	9.29	0.30
C. di Guardia	39	Tr=100	5.30	61.97	62.71	62.32	62.74	0.001505	0.82	6.48	9.69	0.32
C. di Guardia	39	Tr=200	7.74	61.97	62.88	62.42	62.92	0.001592	0.95	8.16	10.10	0.34
C. di Guardia	39	Tr=500	11.64	61.97	63.09	62.55	63.16	0.001731	1.12	10.42	10.62	0.36
C. di Guardia	38	Tr=50	3.33	61.21	61.74	61.50	61.77	0.002377	0.79	4.22	9.76	0.38
C. di Guardia	38	Tr=100	5.30	61.21	61.90	61.60	61.94	0.002315	0.90	5.87	10.81	0.39
C. di Guardia	38	Tr=200	7.74	61.21	62.07	61.70	62.12	0.002171	0.99	7.82	11.92	0.39
C. di Guardia	38	Tr=500	11.64	61.21	62.32	61.84	62.38	0.001875	1.06	10.97	13.54	0.38
C. di Guardia	37	Tr=50	3.33	60.77	61.31	61.01	61.33	0.001280	0.63	5.31	10.72	0.28
C. di Guardia	37	Tr=100	5.30	60.77	61.50	61.09	61.52	0.001182	0.72	7.36	11.32	0.28
C. di Guardia	37	Tr=200	7.74	60.77	61.71	61.18	61.74	0.001056	0.79	9.81	12.00	0.28
C. di Guardia	37	Tr=500	11.64	60.77	62.01	61.31	62.05	0.000908	0.86	13.59	12.97	0.27
C. di Guardia	36.5	Bridge										
C. di Guardia	36	Tr=50	3.33	60.74	61.28	60.99	61.30	0.001433	0.66	5.06	10.40	0.30
C. di Guardia	36	Tr=100	5.30	60.74	61.47	61.08	61.50	0.001300	0.75	7.09	11.11	0.30
C. di Guardia	36	Tr=200	7.74	60.74	61.68	61.17	61.72	0.001139	0.81	9.55	11.92	0.29
C. di Guardia	36	Tr=500	11.64	60.74	61.99	61.30	62.03	0.000959	0.87	13.38	13.08	0.27
C. di Guardia	35	Tr=50	3.33	60.38	60.97	60.66	61.00	0.001552	0.72	4.61	8.52	0.31
C. di Guardia	35	Tr=100	5.30	60.38	61.20	60.76	61.23	0.001303	0.80	6.62	9.07	0.30
C. di Guardia	35	Tr=200	7.74	60.38	61.44	60.86	61.48	0.001139	0.87	8.91	9.66	0.29
C. di Guardia	35	Tr=500	11.64	60.38	61.78	61.01	61.83	0.001002	0.95	12.30	10.47	0.28
C. di Guardia	34	Tr=50	3.33	60.00	60.76	60.28	60.77	0.000635	0.53	6.27	9.46	0.21
C. di Guardia	34	Tr=100	5.30	60.00	61.01	60.37	61.03	0.000596	0.61	8.76	10.24	0.21
C. di Guardia	34	Tr=200	7.74	60.00	61.27	60.48	61.30	0.000566	0.67	11.55	11.06	0.21
C. di Guardia	34	Tr=500	11.64	60.00	61.63	60.62	61.65	0.000536	0.74	15.65	12.16	0.21
C. di Guardia	33	Tr=50	6.57	59.45	60.29	59.90	60.34	0.002100	1.03	6.39	8.53	0.38
C. di Guardia	33	Tr=100	10.25	59.45	60.54	60.05	60.61	0.002130	1.20	8.57	9.08	0.39
C. di Guardia	33	Tr=200	14.74	59.45	60.79	60.21	60.89	0.002131	1.34	10.98	9.65	0.40
C. di Guardia	33	Tr=500	21.84	59.45	61.14	60.42	61.26	0.002108	1.51	14.47	10.41	0.41
C. di Guardia	32	Tr=50	6.57	59.28	60.14	59.69	60.17	0.001311	0.81	8.12	11.35	0.31
C. di Guardia	32	Tr=100	10.25	59.28	60.40	59.82	60.44	0.001256	0.92	11.18	12.50	0.31
C. di Guardia	32	Tr=200	14.74	59.28	60.67	59.96	60.72	0.001183	1.00	14.72	13.70	0.31
C. di Guardia	32	Tr=500	21.84	59.28	61.03	60.15	61.09	0.001086	1.09	20.04	15.33	0.30
C. di Guardia	31.5	Bridge										
C. di Guardia	31	Tr=50	6.57	59.25	60.09	59.70	60.14	0.002188	1.05	6.25	8.22	0.38
C. di Guardia	31	Tr=100	10.25	59.25	60.33	59.85	60.41	0.002265	1.23	8.31	8.66	0.40
C. di Guardia	31	Tr=200	14.74	59.25	60.59	60.01	60.69	0.002291	1.39	10.59	9.13	0.41
C. di Guardia	31	Tr=500	21.84	59.25	60.94	60.23	61.06	0.002297	1.57	13.87	9.76	0.42
C. di Guardia	30	Tr=50	6.57	58.88	59.69	59.28	59.73	0.001553	0.87	7.52	10.48	0.33
C. di Guardia	30	Tr=100	10.25	58.88	59.95	59.41	60.00	0.001439	0.99	10.38	11.24	0.33
C. di Guardia	30	Tr=200	14.74	58.88	60.23	59.54	60.29	0.001347	1.09	13.58	12.04	0.33
C. di Guardia	30	Tr=500	21.84	58.88	60.60	59.74	60.67	0.001249	1.19	18.29	13.12	0.32
C. di Guardia	29	Tr=50	6.57	58.43	59.33	58.82	59.36	0.001147	0.81	8.12	9.72	0.28
C. di Guardia	29	Tr=100	10.25	58.43	59.60	58.96	59.65	0.001163	0.95	10.83	10.14	0.29
C. di Guardia	29	Tr=200	14.74	58.43	59.88	59.10	59.94	0.001181	1.07	13.73	10.56	0.30
C. di Guardia	29	Tr=500	21.84	58.43	60.26	59.29	60.34	0.001197	1.22	17.85	11.14	0.31
C. di Guardia	28	Tr=50	8.24	58.06	59.00	58.53	59.04	0.001602	0.97	8.52	10.29	0.34
C. di Guardia	28	Tr=100	12.66	58.06	59.26	58.68	59.33	0.001595	1.11	11.38	10.98	0.35
C. di Guardia	28	Tr=200	17.99	58.06	59.54	58.83	59.62	0.001568	1.24	14.54	11.69	0.35
C. di Guardia	28	Tr=500	26.35	58.06	59.93	59.05	60.02	0.001504	1.37	19.22	12.67	0.36
C. di Guardia	27	Tr=50	8.24	57.45	58.35	57.92	58.40	0.001980	1.06	7.80	9.45	0.37
C. di Guardia	27	Tr=100	12.66	57.45	58.63	58.07	58.70	0.001891	1.20	10.51	9.92	0.37
C. di Guardia	27	Tr=200	17.99	57.45	58.93	58.23	59.02	0.001787	1.33	13.57	10.43	0.37
C. di Guardia	27	Tr=500	26.35	57.45	59.34	58.45	59.45	0.001667	1.46	18.05	11.13	0.37
C. di Guardia	26.5	Bridge										
C. di Guardia	26	Tr=50	8.24	57.44	58.32	57.91	58.38	0.002095	1.08	7.65	9.36	0.38
C. di Guardia	26	Tr=100	12.66	57.44	58.60	58.06	58.68	0.001978	1.22	10.35	9.79	0.38
C. di Guardia	26	Tr=200	17.99	57.44	58.90	58.22	59.00	0.001860	1.35	13.37	10.25	0.38
C. di Guardia	26	Tr=500	26.35	57.44	59.32	58.44	59.43	0.001735	1.48	17.77	10.89	0.37
C. di Guardia	25	Tr=50	8.24	57.15	58.08	57.57	58.12	0.001302	0.89	9.28	10.63	0.30
C. di Guardia	25	Tr=100	12.66	57.15	58.38	57.71	58.43	0.001226	1.01	12.53	11.02	0.30
C. di Guardia	25	Tr=200	17.99	57.15	58.70	57.86	58.76	0.001163	1.12	16.10	11.44	0.30
C. di Guardia	25	Tr=500	26.35	57.15	59.13	58.06	59.21	0.001110	1.25	21.16	12.01	0.30
C. di Guardia	24	Tr=50	11.86	56.62	57.66	57.10	57.71	0.001274	0.95	12.48	12.93	0.31
C. di Guardia	24	Tr=100	18.01	56.62	57.98	57.26	58.04	0.001192	1.07	16.77	13.51	0.31
C. di Guardia	24	Tr=200	25.36	56.62	58.32	57.41	58.39	0.001133	1.18	21.42	14.12	0.31

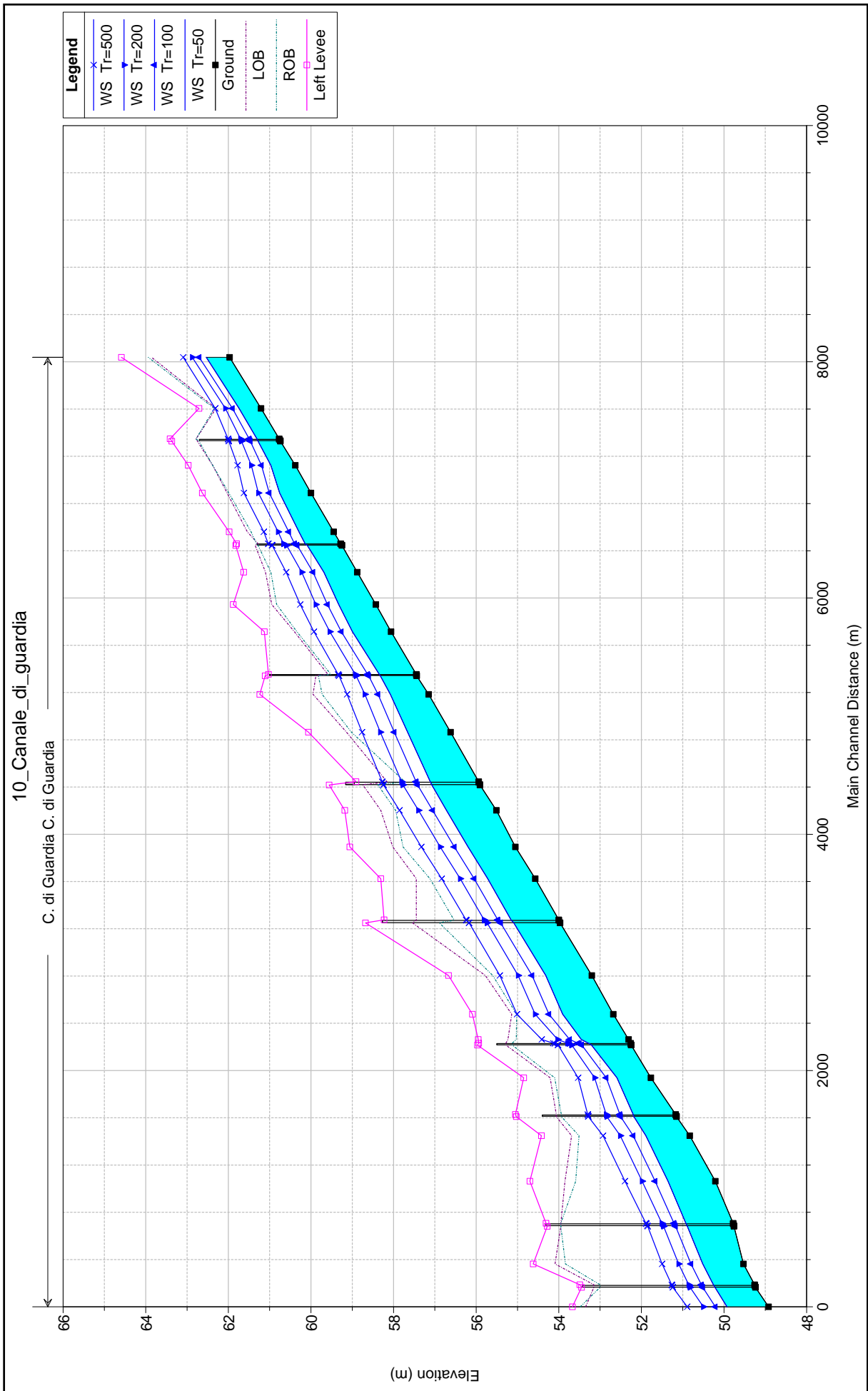
HEC-RAS Plan: 1 River: C. di Guardia Reach: C. di Guardia (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
C. di Guardia	24	Tr=500	36.82	56.62	58.76	57.63	58.85	0.001100	1.32	27.83	14.91	0.31
C. di Guardia	23	Tr=50	11.86	55.94	57.11	56.49	57.16	0.001319	1.01	11.69	10.98	0.31
C. di Guardia	23	Tr=100	18.01	55.94	57.45	56.66	57.52	0.001291	1.16	15.56	11.57	0.32
C. di Guardia	23	Tr=200	25.36	55.94	57.81	56.85	57.89	0.001257	1.29	19.76	12.68	0.32
C. di Guardia	23	Tr=500	36.82	55.94	58.28	57.09	58.38	0.001145	1.43	27.33	26.26	0.32
C. di Guardia	22.5	Bridge										
C. di Guardia	22	Tr=50	11.86	55.91	57.07	56.47	57.13	0.001348	1.01	11.70	11.17	0.32
C. di Guardia	22	Tr=100	18.01	55.91	57.42	56.64	57.49	0.001298	1.15	15.65	11.76	0.32
C. di Guardia	22	Tr=200	25.36	55.91	57.77	56.82	57.85	0.001265	1.27	19.92	12.37	0.32
C. di Guardia	22	Tr=500	36.82	55.91	58.24	57.06	58.35	0.001239	1.42	25.95	13.18	0.32
C. di Guardia	21	Tr=50	15.85	55.51	56.72	56.14	56.79	0.001730	1.19	13.29	12.16	0.36
C. di Guardia	21	Tr=100	24.19	55.51	57.05	56.34	57.15	0.001772	1.38	17.47	12.82	0.38
C. di Guardia	21	Tr=200	34.22	55.51	57.40	56.55	57.52	0.001802	1.56	21.98	13.48	0.39
C. di Guardia	21	Tr=500	49.86	55.51	57.85	56.83	58.01	0.001825	1.76	28.36	14.38	0.40
C. di Guardia	20	Tr=50	15.85	55.05	56.20	55.64	56.26	0.001671	1.15	13.81	13.13	0.36
C. di Guardia	20	Tr=100	24.19	55.05	56.53	55.83	56.62	0.001657	1.32	18.28	13.70	0.37
C. di Guardia	20	Tr=200	34.22	55.05	56.87	56.02	56.98	0.001649	1.48	23.07	14.28	0.37
C. di Guardia	20	Tr=500	49.86	55.05	57.33	56.28	57.47	0.001646	1.67	29.78	15.06	0.38
C. di Guardia	19	Tr=50	15.85	54.57	55.72	55.17	55.79	0.001821	1.20	13.23	12.45	0.37
C. di Guardia	19	Tr=100	24.19	54.57	56.05	55.37	56.15	0.001834	1.39	17.43	12.96	0.38
C. di Guardia	19	Tr=200	34.22	54.57	56.39	55.57	56.51	0.001858	1.56	21.88	13.49	0.39
C. di Guardia	19	Tr=500	49.86	54.57	56.84	55.84	57.00	0.001890	1.78	28.09	14.19	0.40
C. di Guardia	18	Tr=50	15.85	54.00	55.16	54.57	55.22	0.001481	1.09	14.53	13.59	0.34
C. di Guardia	18	Tr=100	24.19	54.00	55.48	54.75	55.56	0.001529	1.27	18.99	14.16	0.35
C. di Guardia	18	Tr=200	34.22	54.00	55.81	54.94	55.91	0.001563	1.44	23.76	14.75	0.36
C. di Guardia	18	Tr=500	49.86	54.00	56.25	55.20	56.38	0.001607	1.64	30.38	15.53	0.37
C. di Guardia	17.5	Bridge										
C. di Guardia	17	Tr=50	15.85	53.97	55.09	54.60	55.17	0.002111	1.25	12.64	12.75	0.40
C. di Guardia	17	Tr=100	24.19	53.97	55.41	54.79	55.51	0.002098	1.44	16.81	13.59	0.41
C. di Guardia	17	Tr=200	34.22	53.97	55.74	54.99	55.87	0.002063	1.60	21.41	14.45	0.42
C. di Guardia	17	Tr=500	49.86	53.97	56.17	55.27	56.33	0.002023	1.78	27.97	15.60	0.42
C. di Guardia	16	Tr=50	15.85	53.20	54.32	53.75	54.38	0.001506	1.09	14.60	14.08	0.34
C. di Guardia	16	Tr=100	24.19	53.20	54.65	53.93	54.73	0.001477	1.25	19.37	14.66	0.35
C. di Guardia	16	Tr=200	34.22	53.20	54.98	54.11	55.08	0.001472	1.40	24.40	15.25	0.35
C. di Guardia	16	Tr=500	49.86	53.20	55.43	54.36	55.56	0.001487	1.59	31.33	16.03	0.36
C. di Guardia	15	Tr=50	15.85	52.68	53.91	53.24	53.95	0.001099	0.96	16.43	15.14	0.30
C. di Guardia	15	Tr=100	24.19	52.68	54.24	53.42	54.30	0.001128	1.12	21.62	16.07	0.31
C. di Guardia	15	Tr=200	34.22	52.68	54.57	53.60	54.65	0.001154	1.26	27.15	17.02	0.32
C. di Guardia	15	Tr=500	49.86	52.68	55.01	53.85	55.12	0.001180	1.43	34.91	18.26	0.33
C. di Guardia	14	Tr=50	20.60	52.31	53.45	53.01	53.57	0.002830	1.48	13.88	13.41	0.47
C. di Guardia	14	Tr=100	31.10	52.31	53.74	53.22	53.89	0.003057	1.75	17.78	14.04	0.50
C. di Guardia	14	Tr=200	43.63	52.31	54.03	53.44	54.23	0.003224	1.99	21.94	14.69	0.52
C. di Guardia	14	Tr=500	63.07	52.31	54.41	53.74	54.67	0.003384	2.27	27.75	15.55	0.54
C. di Guardia	13	Tr=50	20.60	52.26	53.28	52.99	53.45	0.004680	1.79	11.52	12.36	0.59
C. di Guardia	13	Tr=100	31.10	52.26	53.53	53.21	53.76	0.005120	2.12	14.67	12.89	0.63
C. di Guardia	13	Tr=200	43.63	52.26	53.79	53.44	54.09	0.005414	2.42	18.06	13.45	0.67
C. di Guardia	13	Tr=500	63.07	52.26	54.14	53.75	54.52	0.005664	2.76	22.83	14.19	0.70
C. di Guardia	12.5	Bridge										
C. di Guardia	12	Tr=50	20.60	52.25	53.21	52.98	53.40	0.001884	1.91	10.76	12.24	0.65
C. di Guardia	12	Tr=100	31.10	52.25	53.44	53.20	53.71	0.002066	2.27	13.68	12.73	0.70
C. di Guardia	12	Tr=200	43.63	52.25	53.69	53.43	54.03	0.002182	2.59	16.83	13.25	0.73
C. di Guardia	12	Tr=500	63.07	52.25	54.02	53.74	54.46	0.002262	2.96	21.31	13.95	0.76
C. di Guardia	11	Tr=50	20.60	51.77	52.59	52.44	52.80	0.002489	2.02	10.22	13.47	0.74
C. di Guardia	11	Tr=100	31.10	51.77	52.85	52.65	53.11	0.002250	2.25	13.80	14.12	0.73
C. di Guardia	11	Tr=200	43.63	51.77	53.14	52.87	53.44	0.002009	2.44	17.91	14.84	0.71
C. di Guardia	11	Tr=500	63.07	51.77	53.53	53.15	53.88	0.001752	2.63	24.03	15.84	0.68
C. di Guardia	10	Tr=50	20.60	51.17	52.20	51.81	52.31	0.000984	1.46	14.15	15.14	0.48
C. di Guardia	10	Tr=100	31.10	51.17	52.52	52.01	52.66	0.000895	1.62	19.14	16.02	0.47
C. di Guardia	10	Tr=200	43.63	51.17	52.85	52.21	53.01	0.000830	1.77	24.61	16.93	0.47
C. di Guardia	10	Tr=500	63.07	51.17	53.30	52.49	53.49	0.000769	1.94	32.44	18.14	0.46
C. di Guardia	9.5	Bridge										
C. di Guardia	09	Tr=50	20.60	51.15	52.18	51.79	52.29	0.000977	1.45	14.18	15.15	0.48
C. di Guardia	09	Tr=100	31.10	51.15	52.50	51.99	52.64	0.000885	1.62	19.21	16.02	0.47
C. di Guardia	09	Tr=200	43.63	51.15	52.84	52.19	53.00	0.000820	1.77	24.70	16.92	0.47
C. di Guardia	09	Tr=500	63.07	51.15	53.29	52.47	53.48	0.000761	1.94	32.55	18.13	0.46

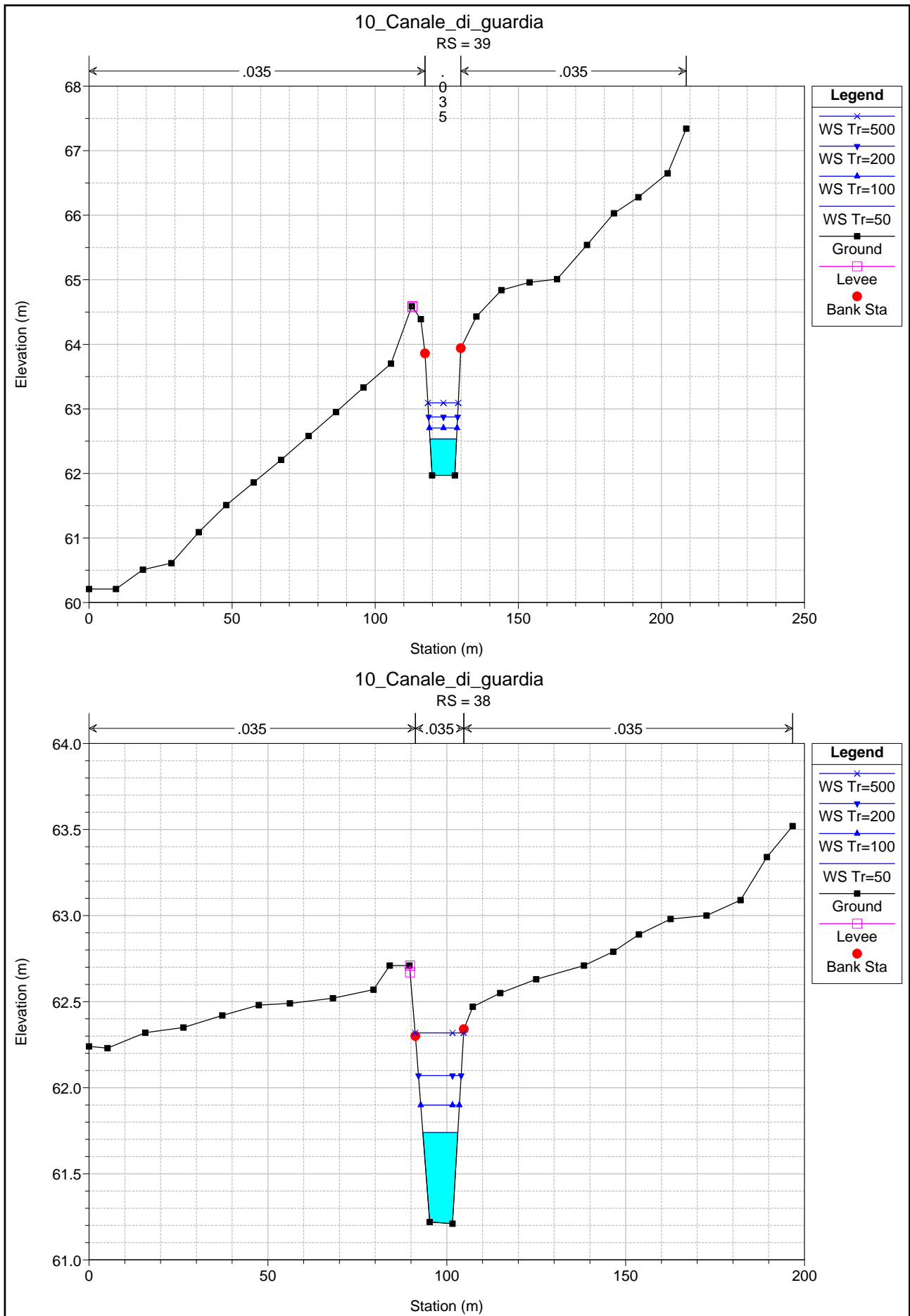
HEC-RAS Plan: 1 River: C. di Guardia Reach: C. di Guardia (Continued)

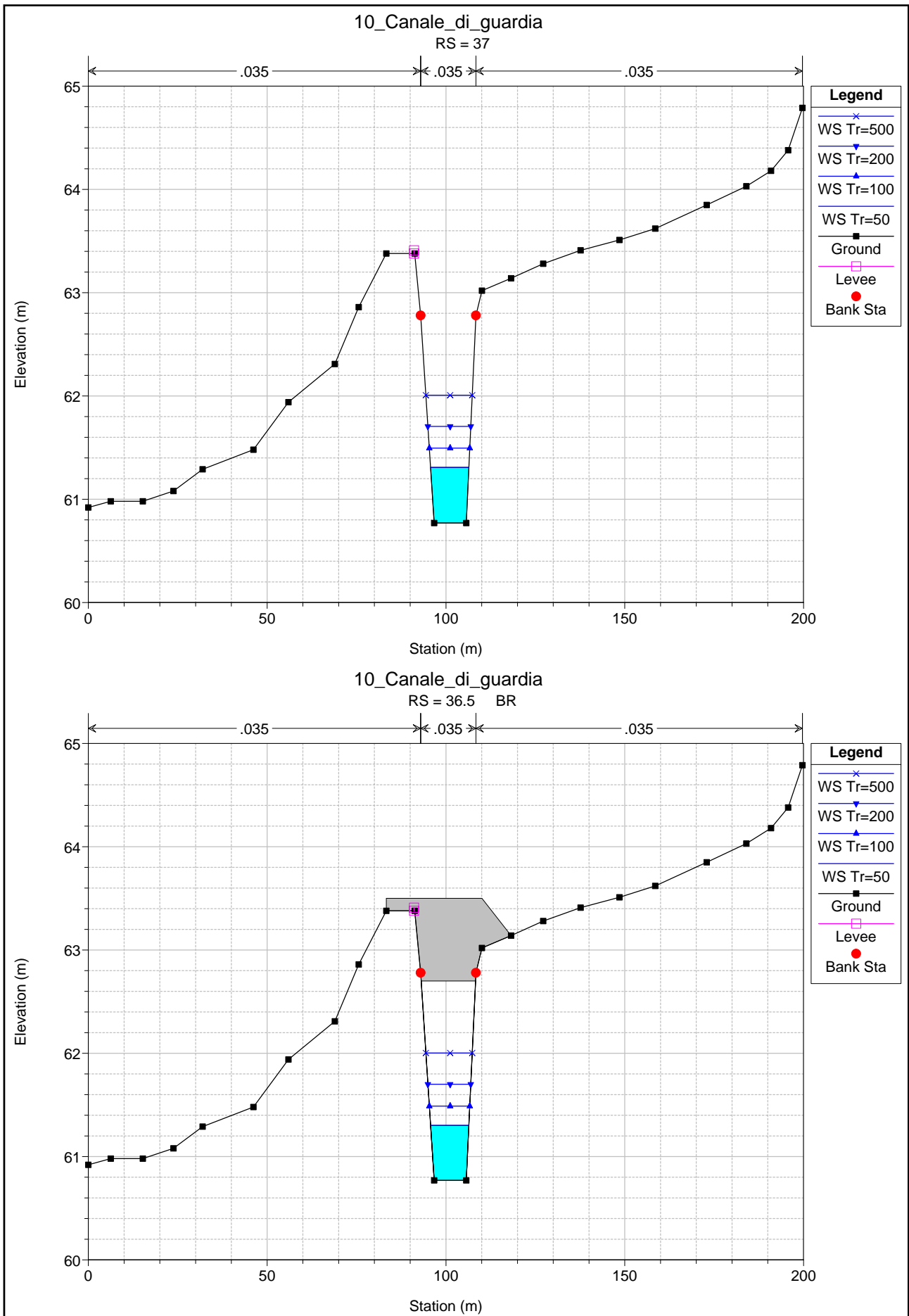
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
C. di Guardia	08	Tr=50	25.68	50.83	51.89	51.61	52.07	0.001639	1.89	13.56	14.29	0.62
C. di Guardia	08	Tr=100	38.88	50.83	52.20	51.85	52.43	0.001579	2.15	18.06	15.14	0.63
C. di Guardia	08	Tr=200	54.66	50.83	52.51	52.10	52.80	0.001534	2.38	22.94	16.01	0.64
C. di Guardia	08	Tr=500	79.16	50.83	52.93	52.43	53.29	0.001488	2.65	29.85	17.16	0.64
C. di Guardia	07	Tr=50	25.68	50.21	51.36	50.99	51.51	0.001273	1.76	14.63	14.14	0.55
C. di Guardia	07	Tr=100	38.88	50.21	51.67	51.23	51.88	0.001292	2.03	19.15	14.86	0.57
C. di Guardia	07	Tr=200	54.66	50.21	51.98	51.48	52.25	0.001312	2.28	23.94	15.59	0.59
C. di Guardia	07	Tr=500	79.16	50.21	52.40	51.81	52.74	0.001335	2.59	30.61	16.55	0.61
C. di Guardia	06	Tr=50	25.68	49.78	50.92	50.54	51.07	0.001192	1.71	15.04	14.41	0.53
C. di Guardia	06	Tr=100	38.88	49.78	51.21	50.78	51.42	0.001284	2.02	19.29	15.04	0.57
C. di Guardia	06	Tr=200	54.66	49.78	51.50	51.02	51.77	0.001354	2.30	23.78	15.68	0.60
C. di Guardia	06	Tr=500	79.16	49.78	51.89	51.35	52.25	0.001422	2.63	30.04	16.54	0.62
C. di Guardia	5.5	Bridge										
C. di Guardia	05	Tr=50	25.68	49.76	50.89	50.52	51.04	0.001242	1.73	14.85	14.39	0.54
C. di Guardia	05	Tr=100	38.88	49.76	51.17	50.76	51.39	0.001336	2.04	19.04	15.01	0.58
C. di Guardia	05	Tr=200	54.66	49.76	51.46	51.00	51.74	0.001410	2.33	23.46	15.64	0.61
C. di Guardia	05	Tr=500	79.16	49.76	51.85	51.33	52.21	0.001480	2.67	29.64	16.47	0.64
C. di Guardia	04	Tr=50	25.68	49.53	50.51	50.18	50.64	0.001213	1.60	16.00	17.30	0.53
C. di Guardia	04	Tr=100	38.88	49.53	50.80	50.38	50.97	0.001184	1.85	21.05	17.89	0.54
C. di Guardia	04	Tr=200	54.66	49.53	51.10	50.60	51.31	0.001159	2.07	26.46	18.51	0.55
C. di Guardia	04	Tr=500	79.16	49.53	51.50	50.89	51.77	0.001132	2.33	34.04	19.35	0.56
C. di Guardia	03	Tr=50	25.68	49.26	50.26	49.96	50.41	0.001445	1.73	14.81	16.38	0.58
C. di Guardia	03	Tr=100	38.88	49.26	50.55	50.17	50.75	0.001380	1.97	19.73	17.26	0.59
C. di Guardia	03	Tr=200	54.66	49.26	50.85	50.40	51.09	0.001319	2.17	25.13	18.18	0.59
C. di Guardia	03	Tr=500	79.16	49.26	51.27	50.70	51.56	0.001243	2.40	32.93	19.44	0.59
C. di Guardia	2.5	Bridge										
C. di Guardia	02	Tr=50	25.68	49.24	50.22	49.94	50.38	0.001506	1.75	14.63	16.40	0.59
C. di Guardia	02	Tr=100	38.88	49.24	50.51	50.15	50.72	0.001412	1.98	19.60	17.28	0.59
C. di Guardia	02	Tr=200	54.66	49.24	50.82	50.38	51.06	0.001335	2.18	25.05	18.19	0.59
C. di Guardia	02	Tr=500	79.16	49.24	51.24	50.67	51.53	0.001249	2.41	32.88	19.43	0.59
C. di Guardia	01	Tr=50	25.68	48.92	49.93	49.66	50.11	0.001701	1.90	13.51	14.46	0.63
C. di Guardia	01	Tr=100	38.88	48.92	50.21	49.89	50.46	0.001701	2.20	17.70	15.05	0.65
C. di Guardia	01	Tr=200	54.66	48.92	50.50	50.13	50.81	0.001703	2.47	22.15	15.65	0.66
C. di Guardia	01	Tr=500	79.16	48.92	50.89	50.46	51.29	0.001701	2.79	28.39	16.46	0.68

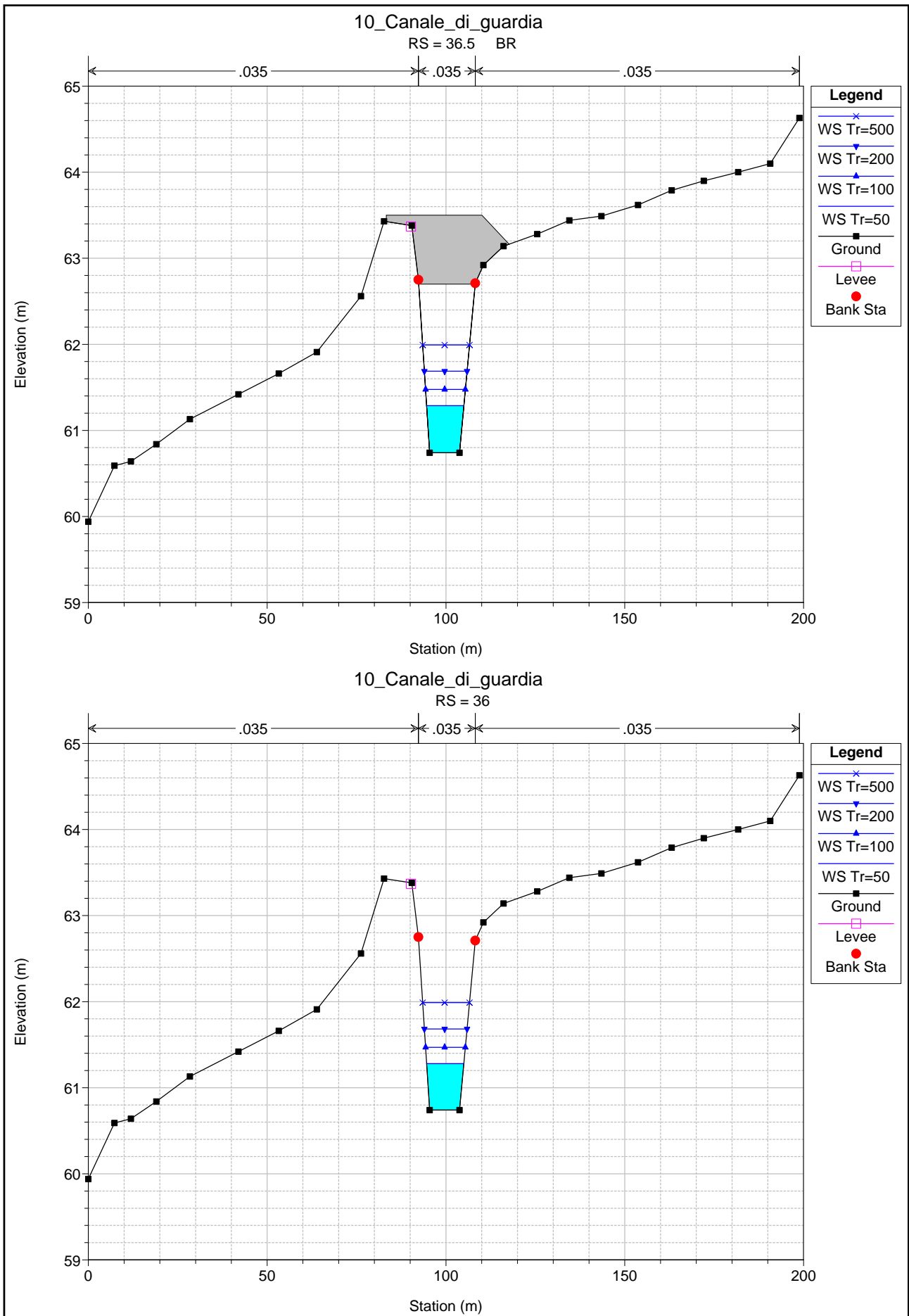
Profilo

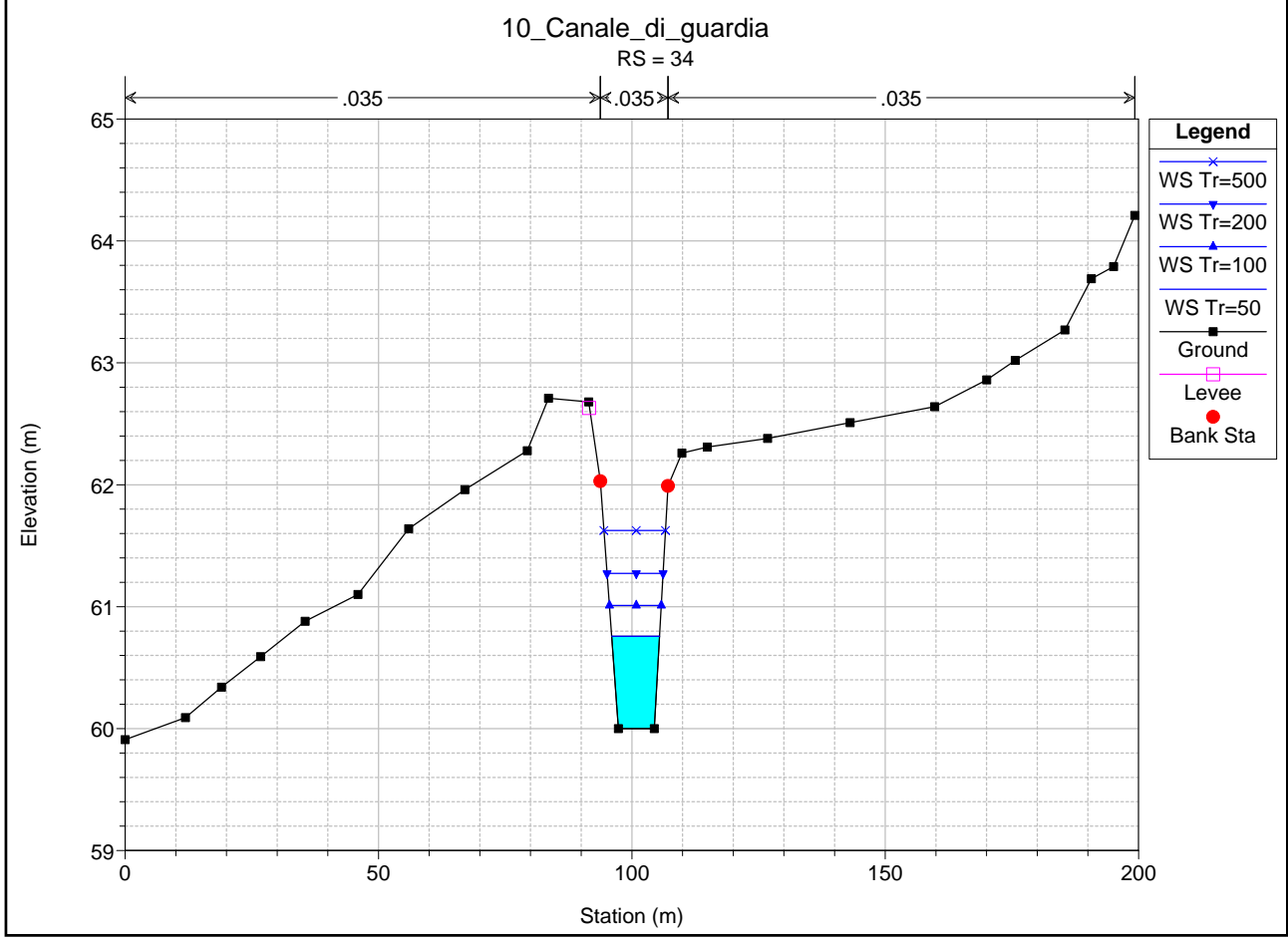
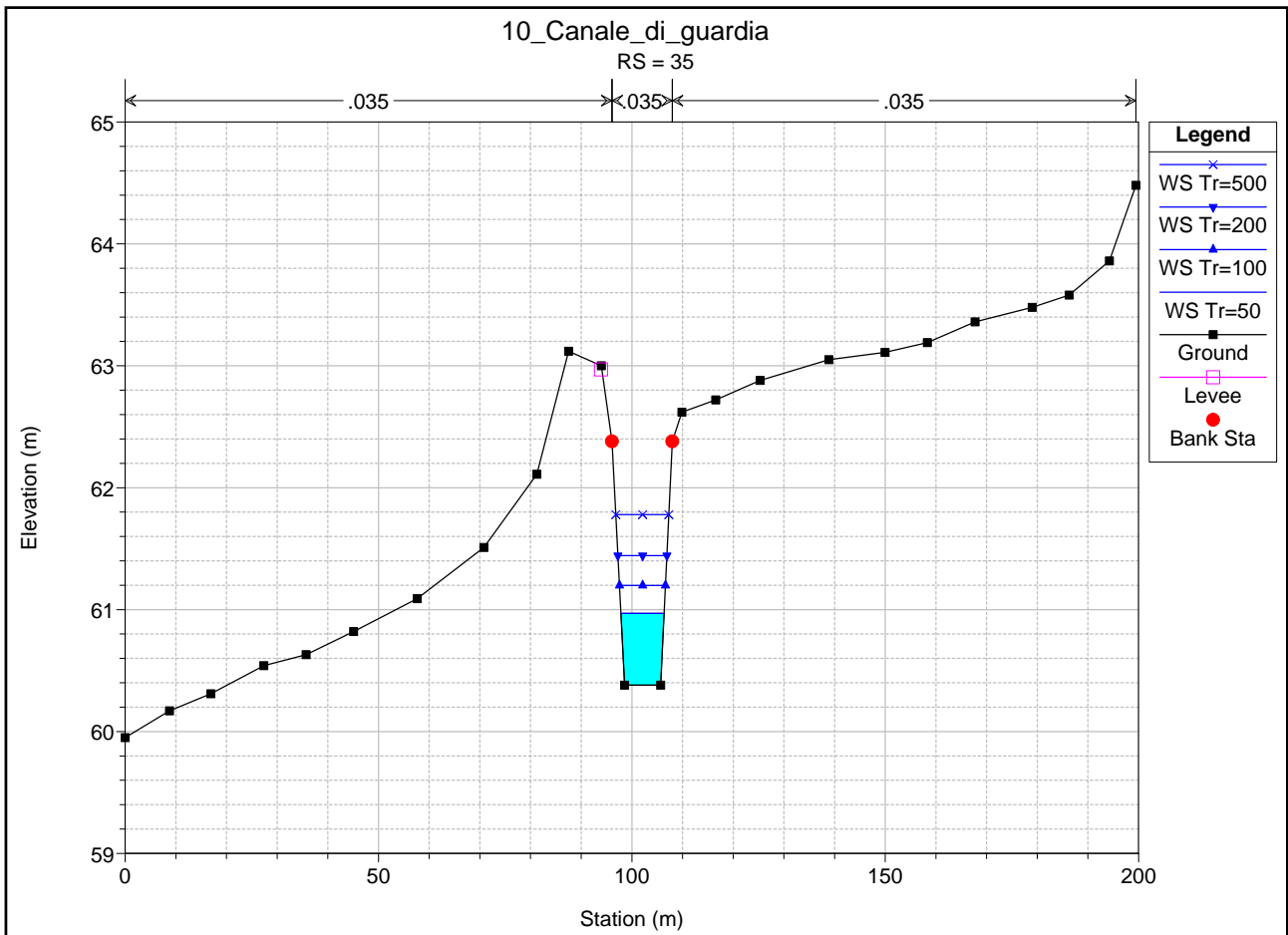


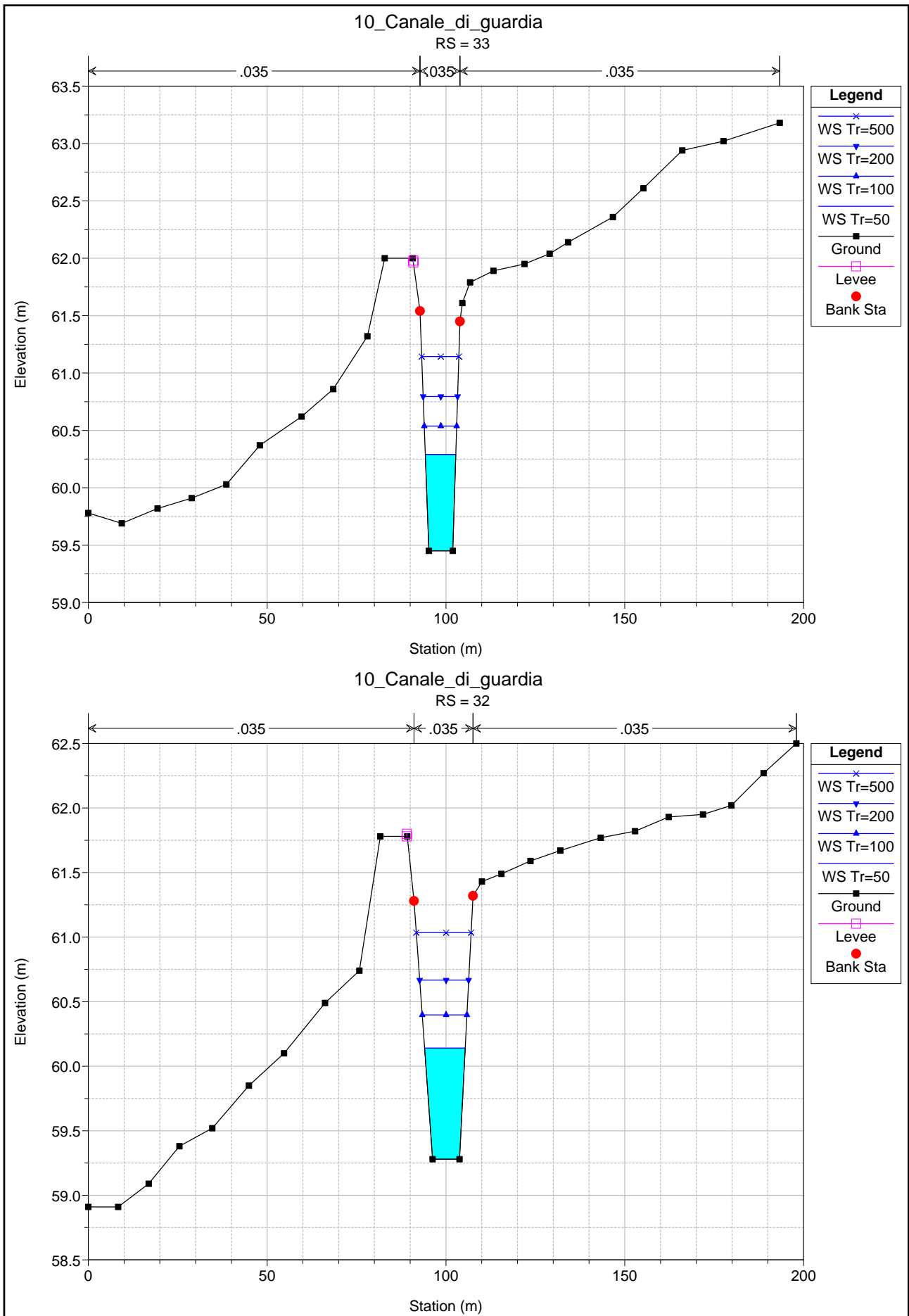
Sezioni fluviali relative ai tempi di ritorno considerati

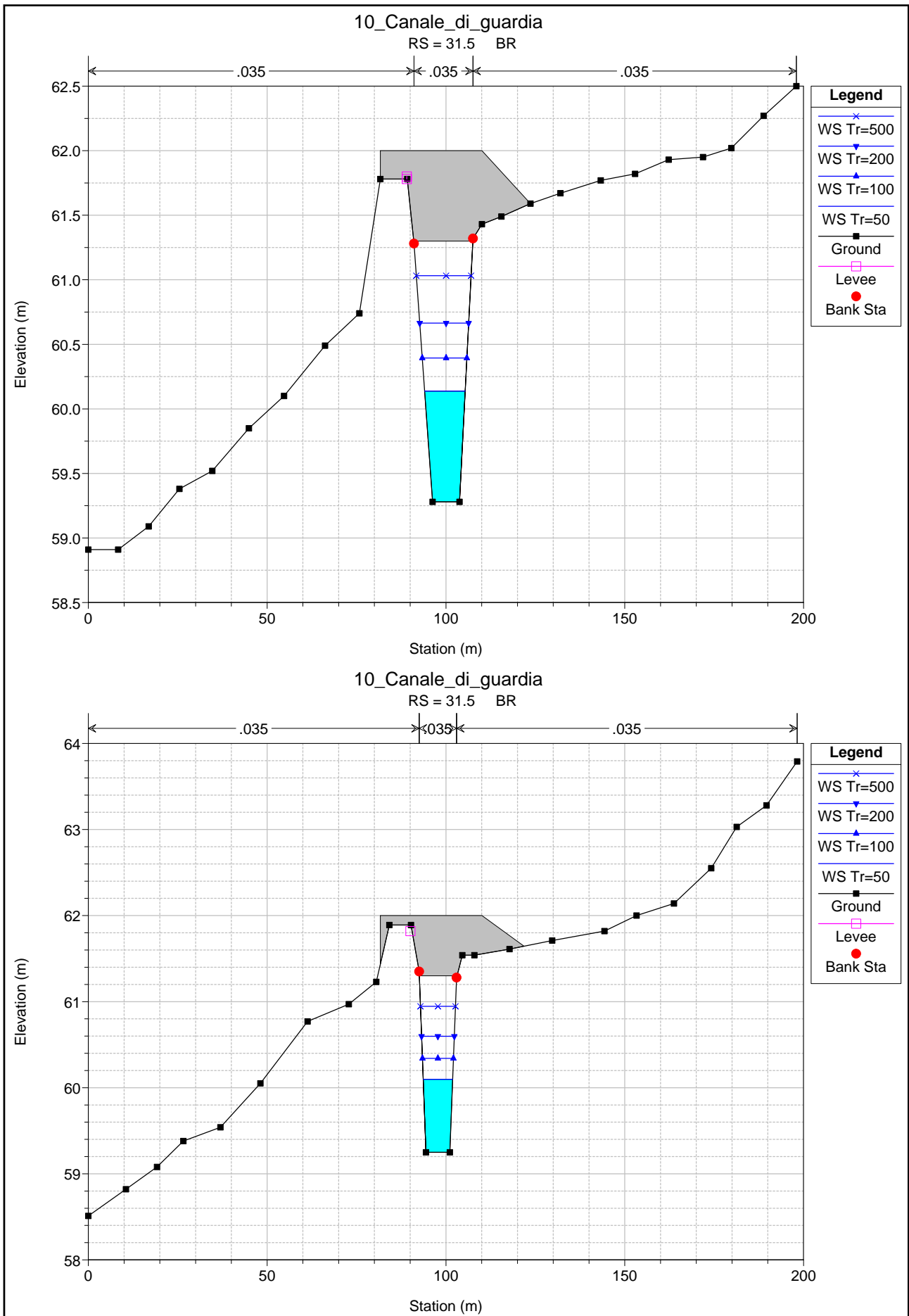


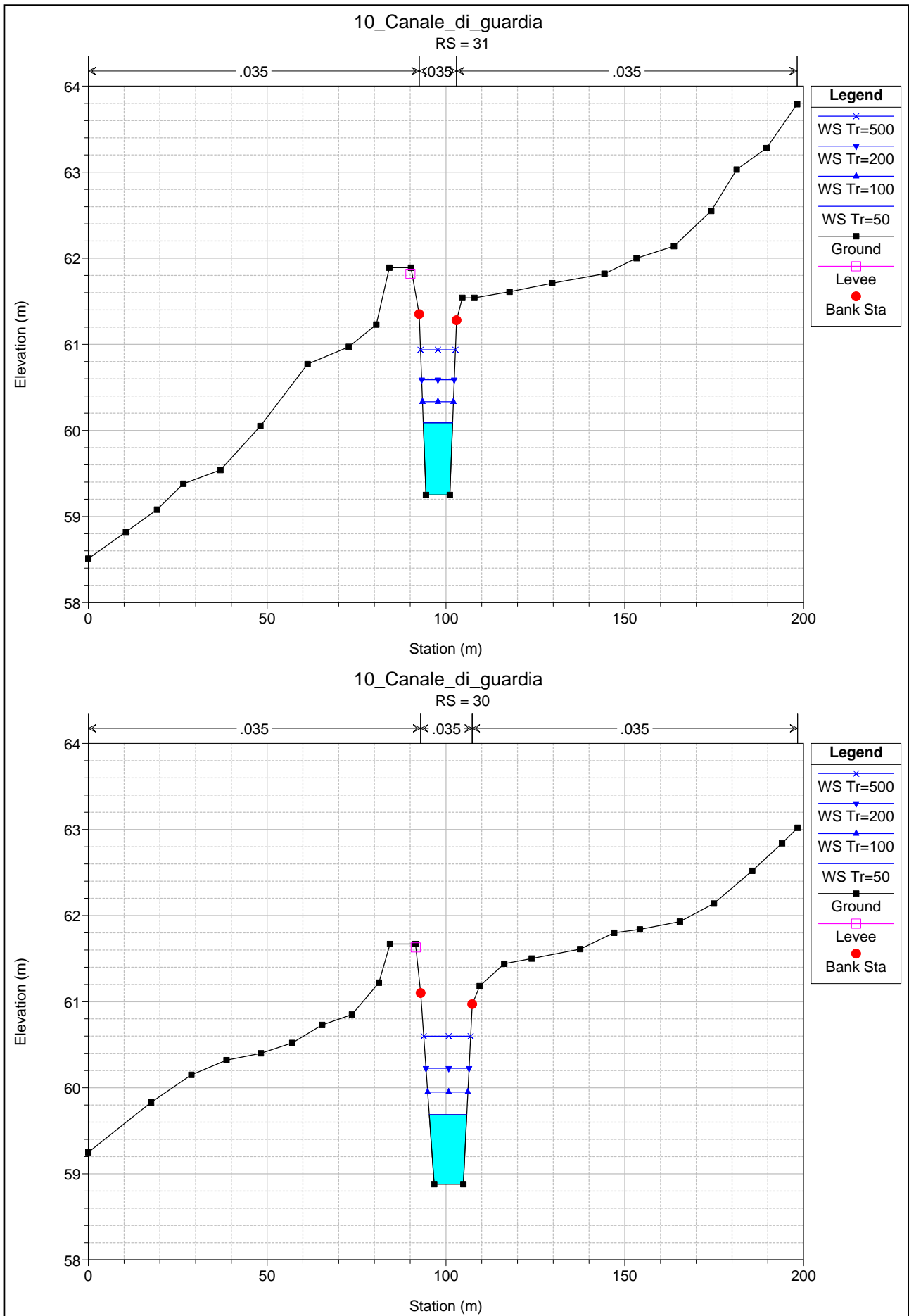


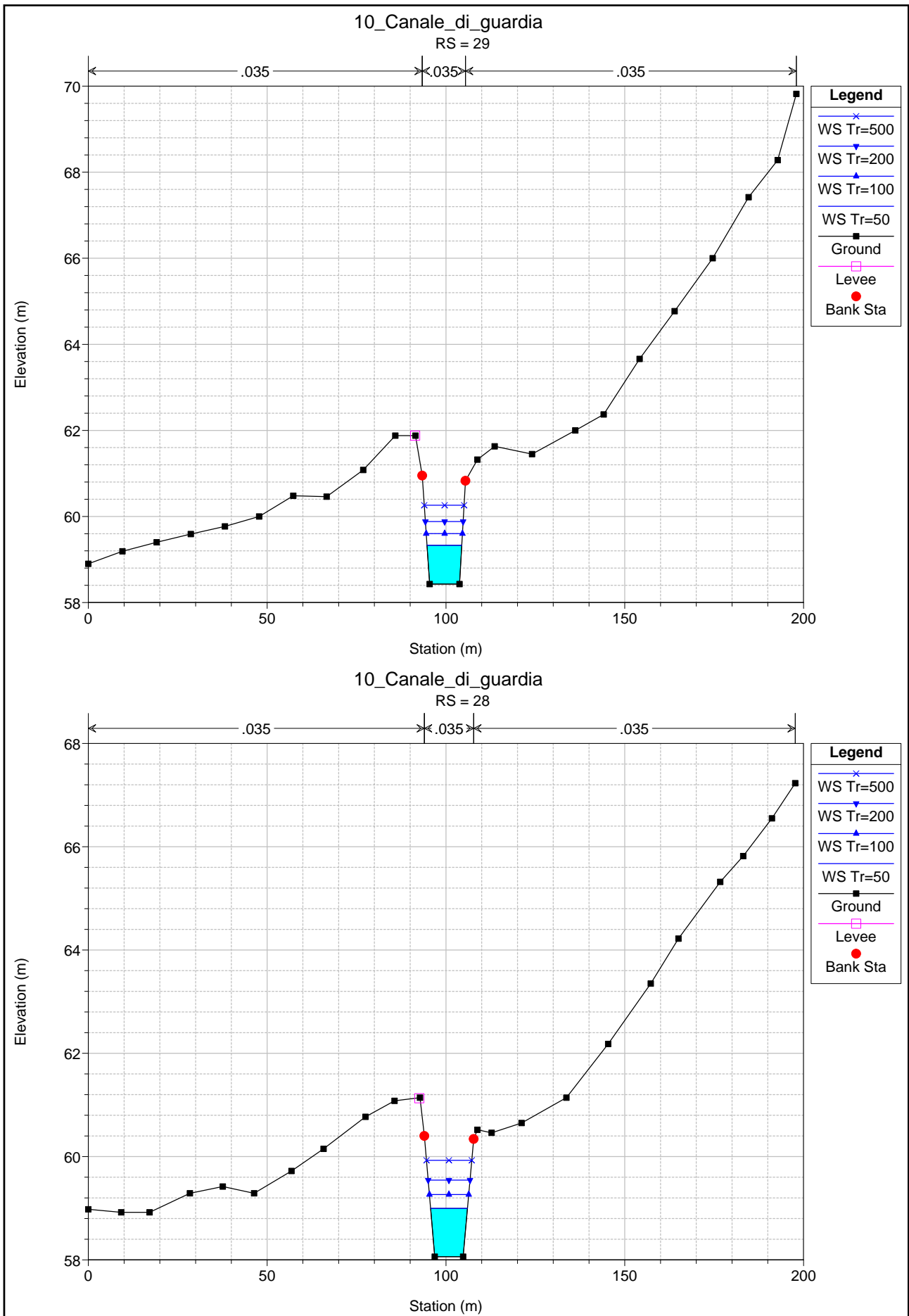


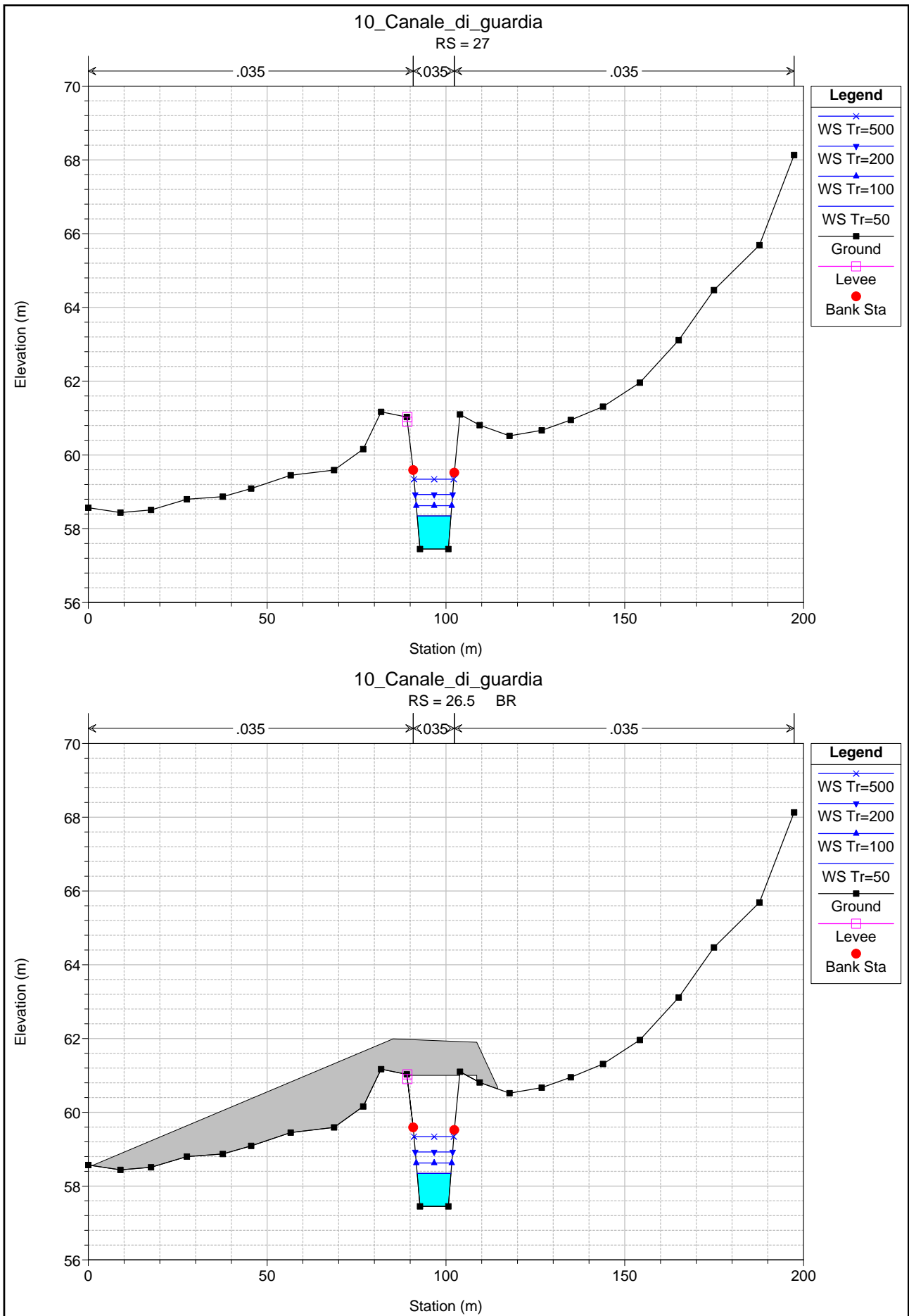


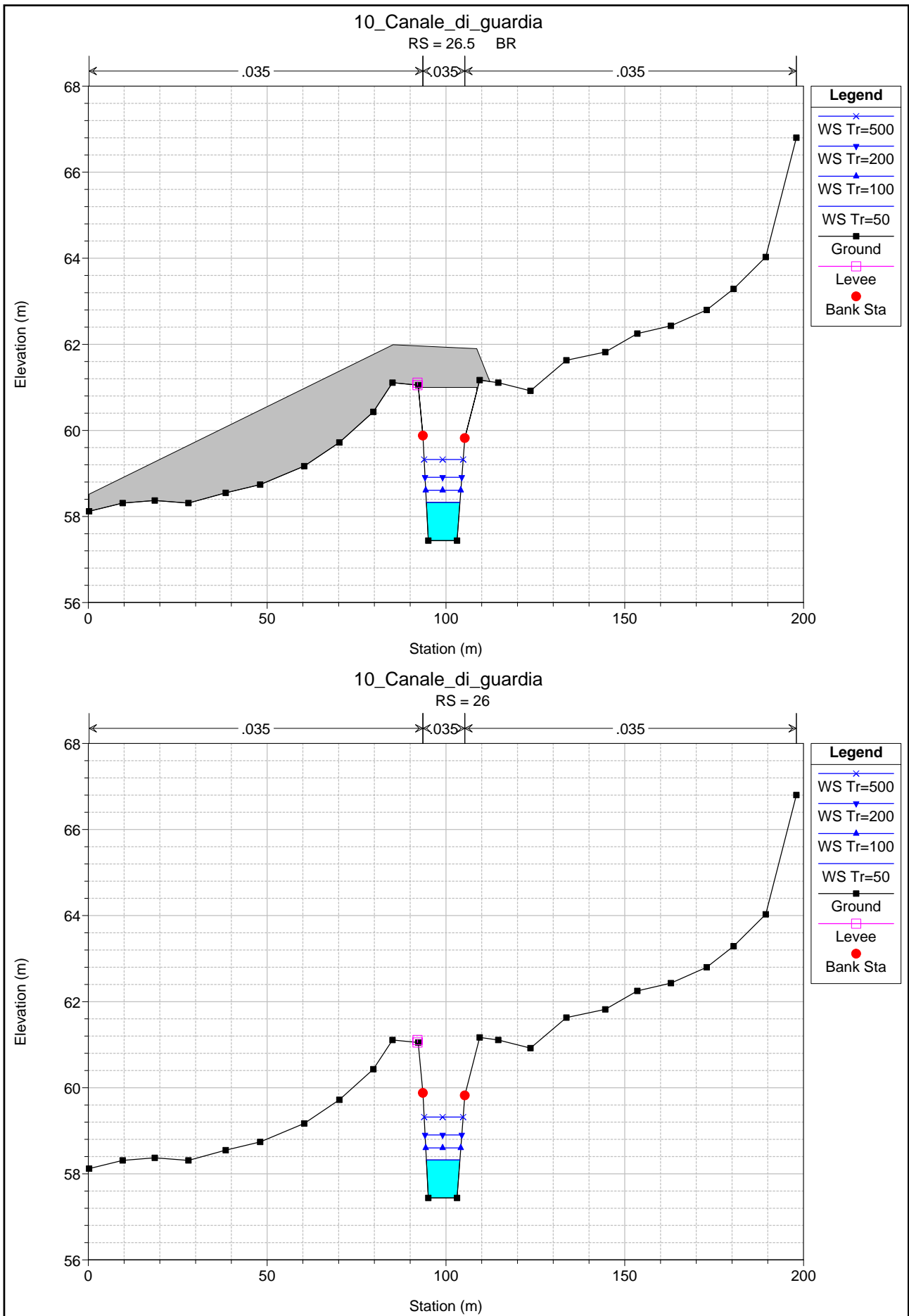


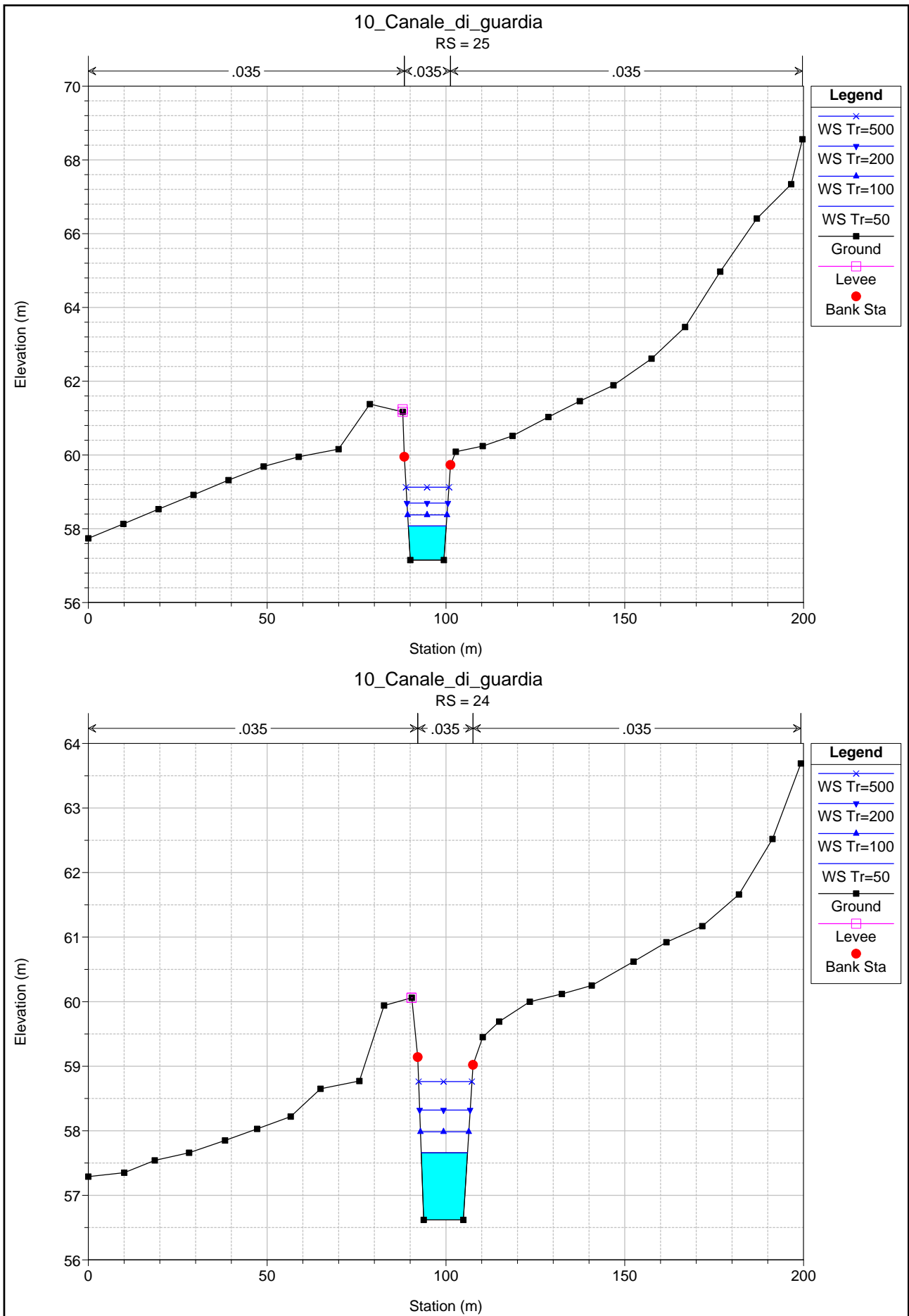


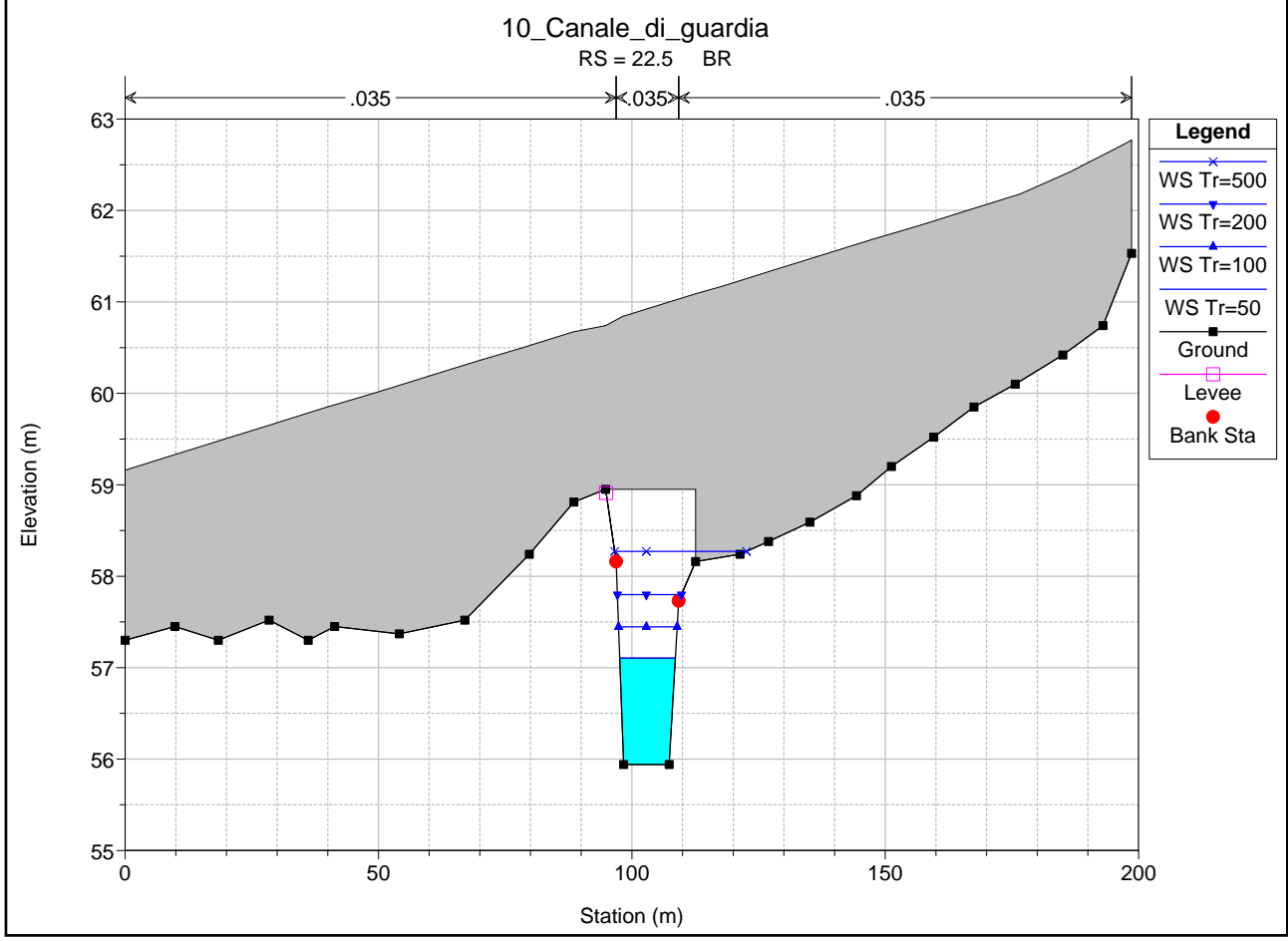
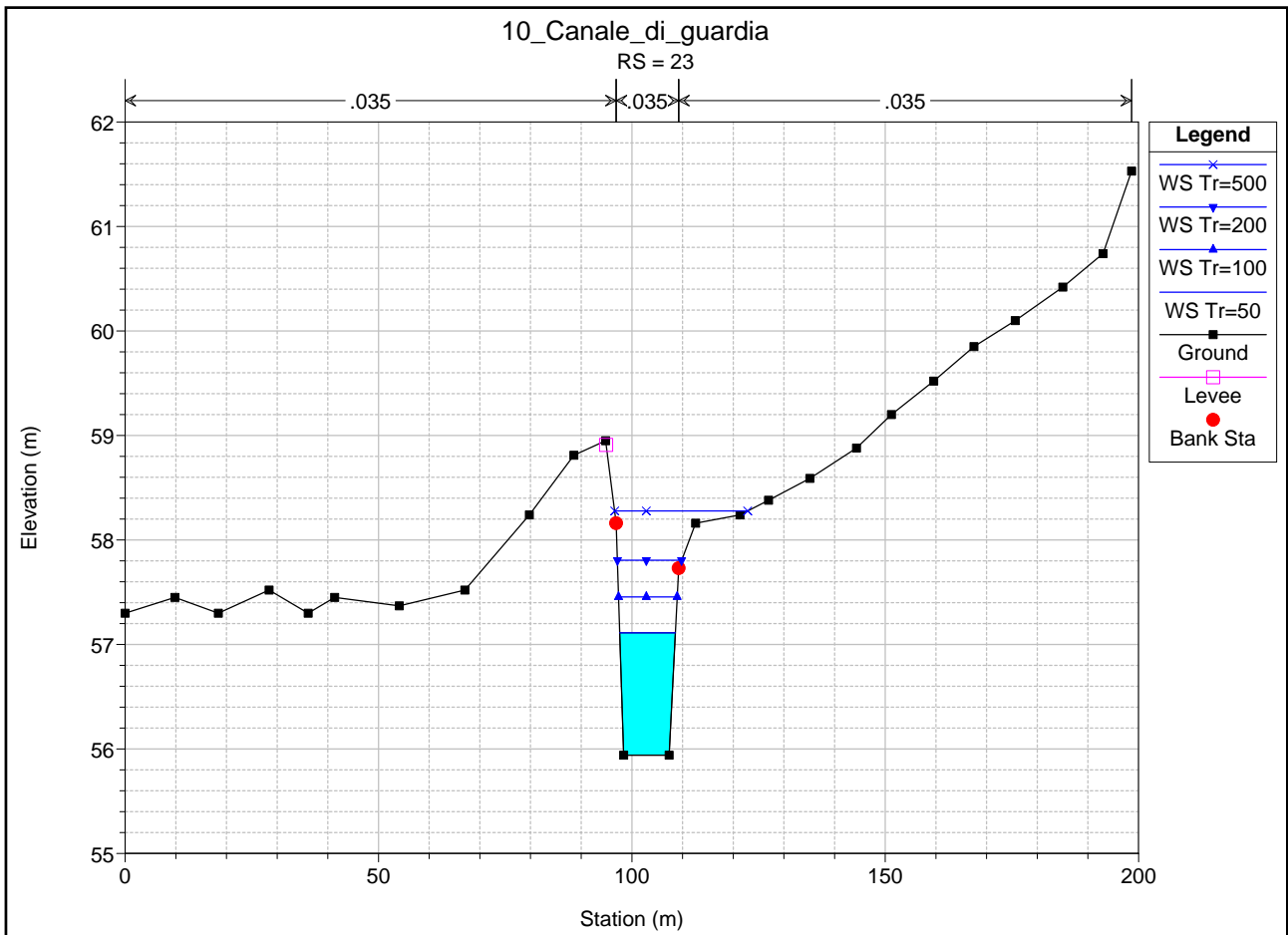


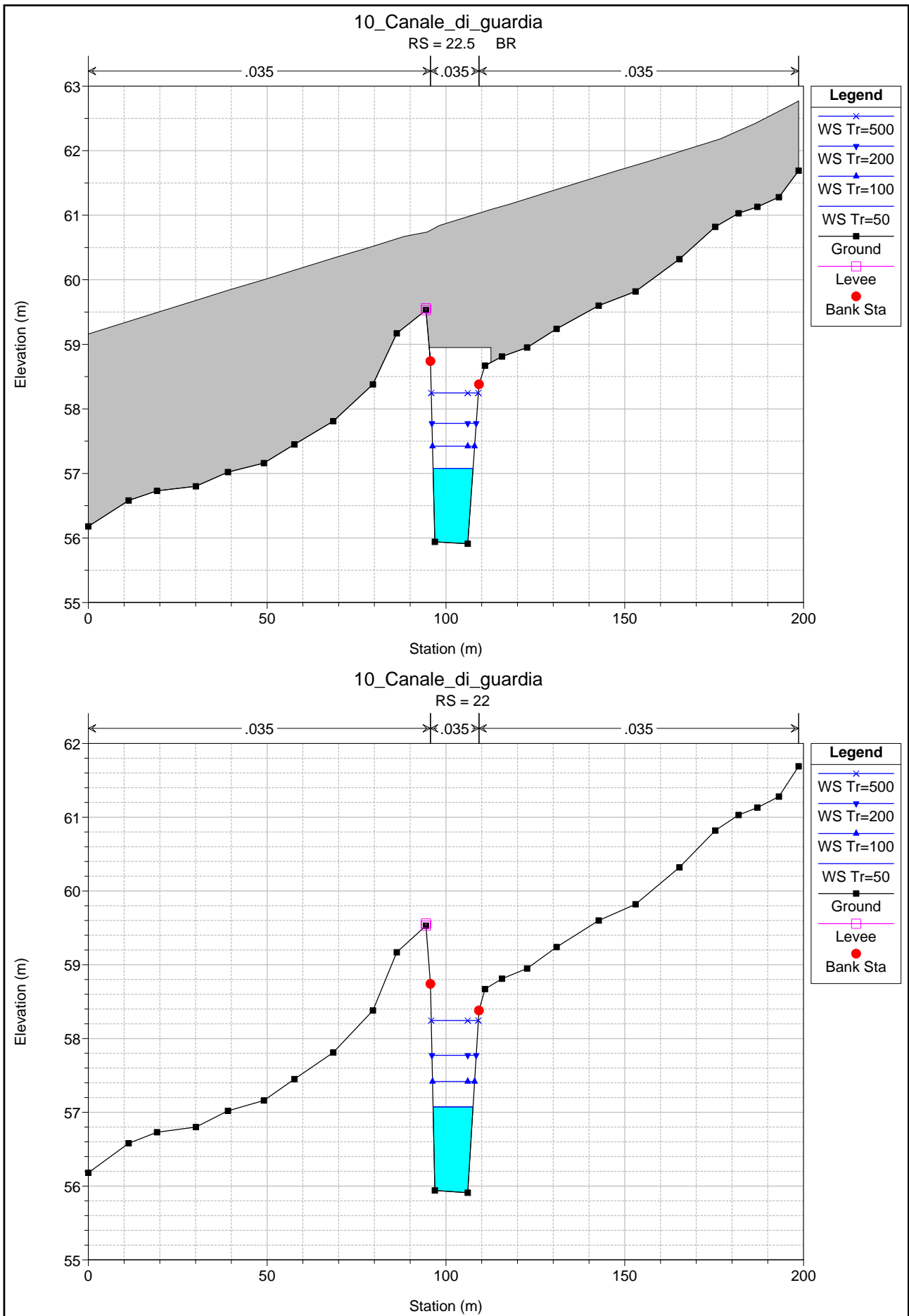


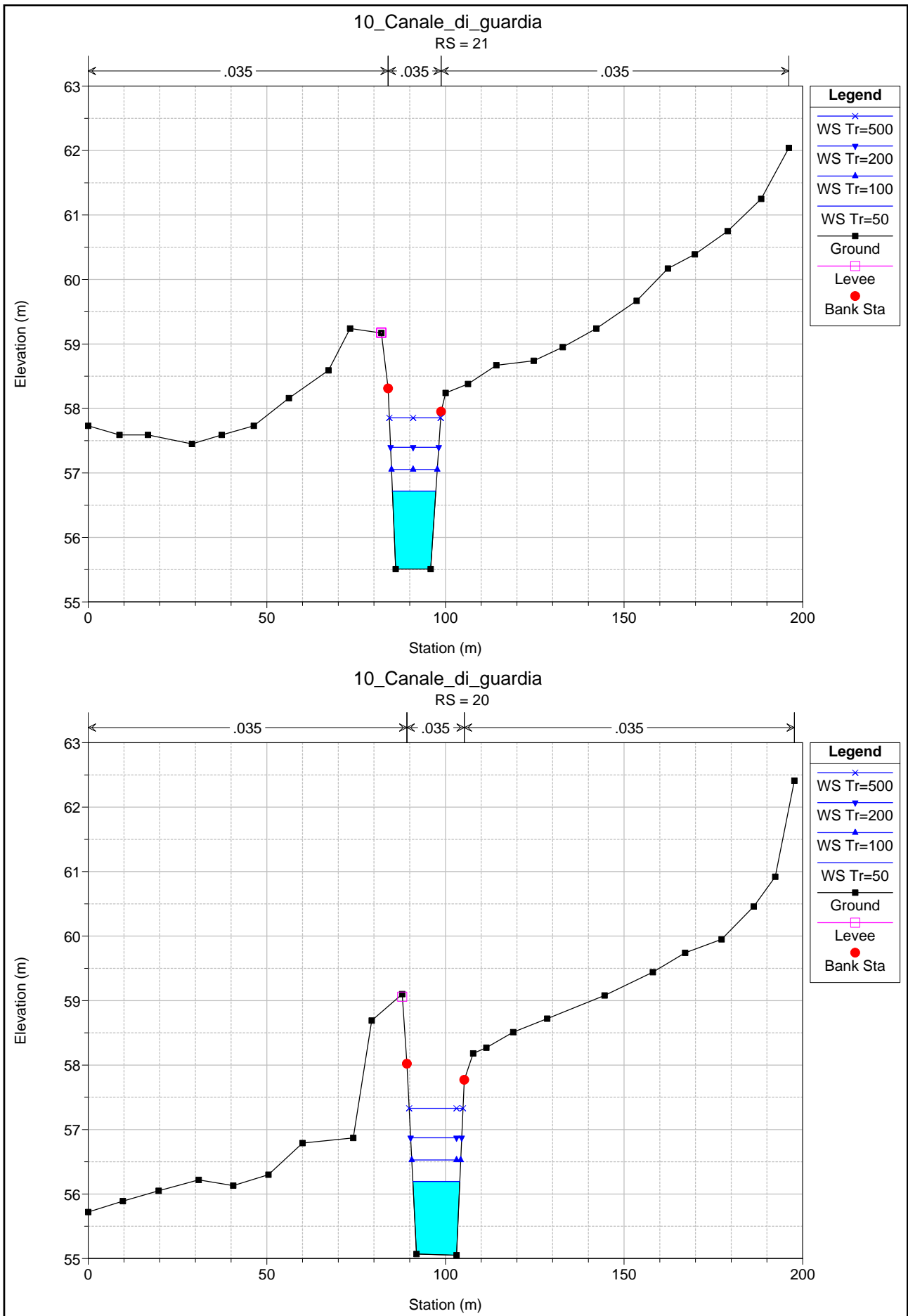


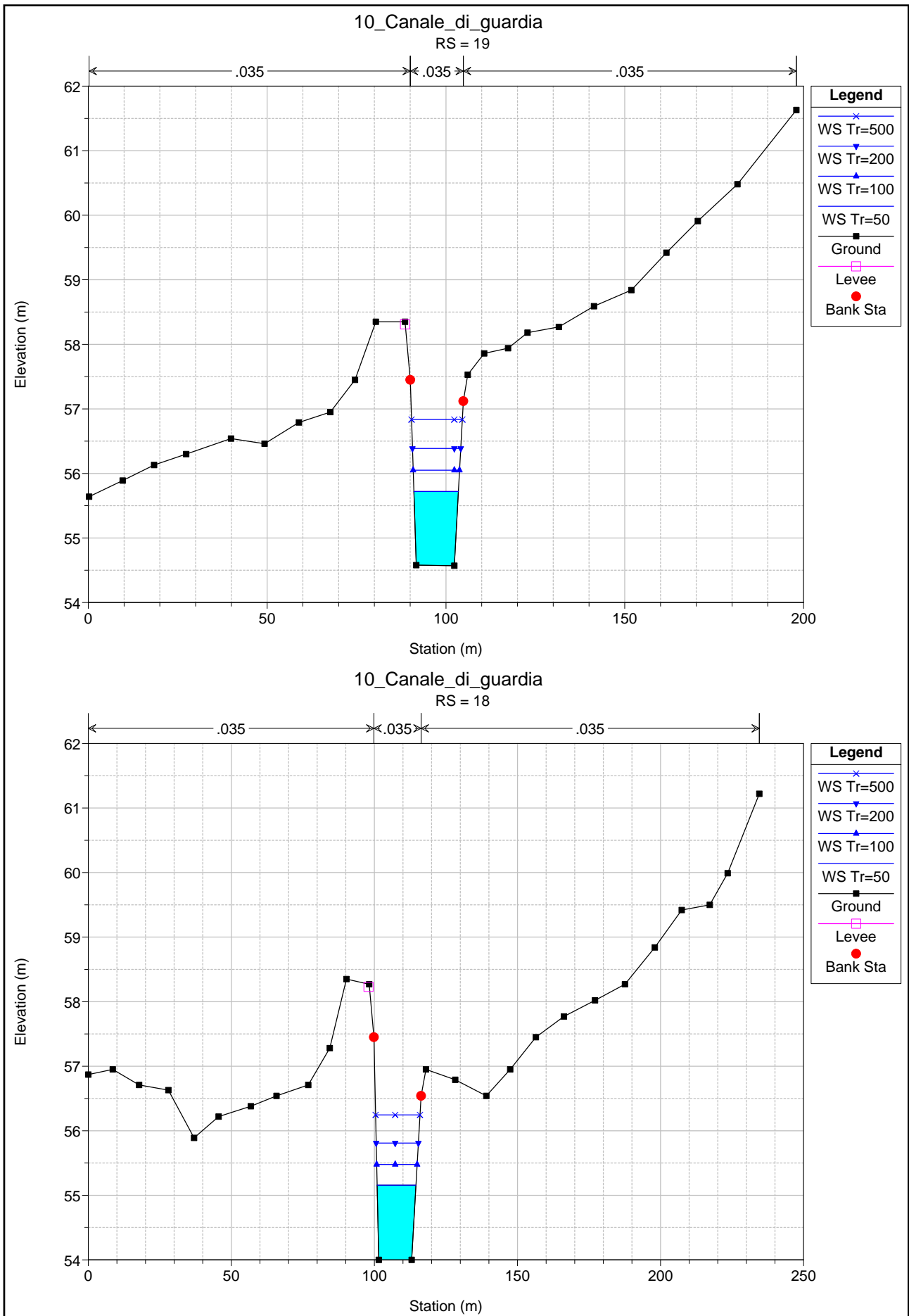


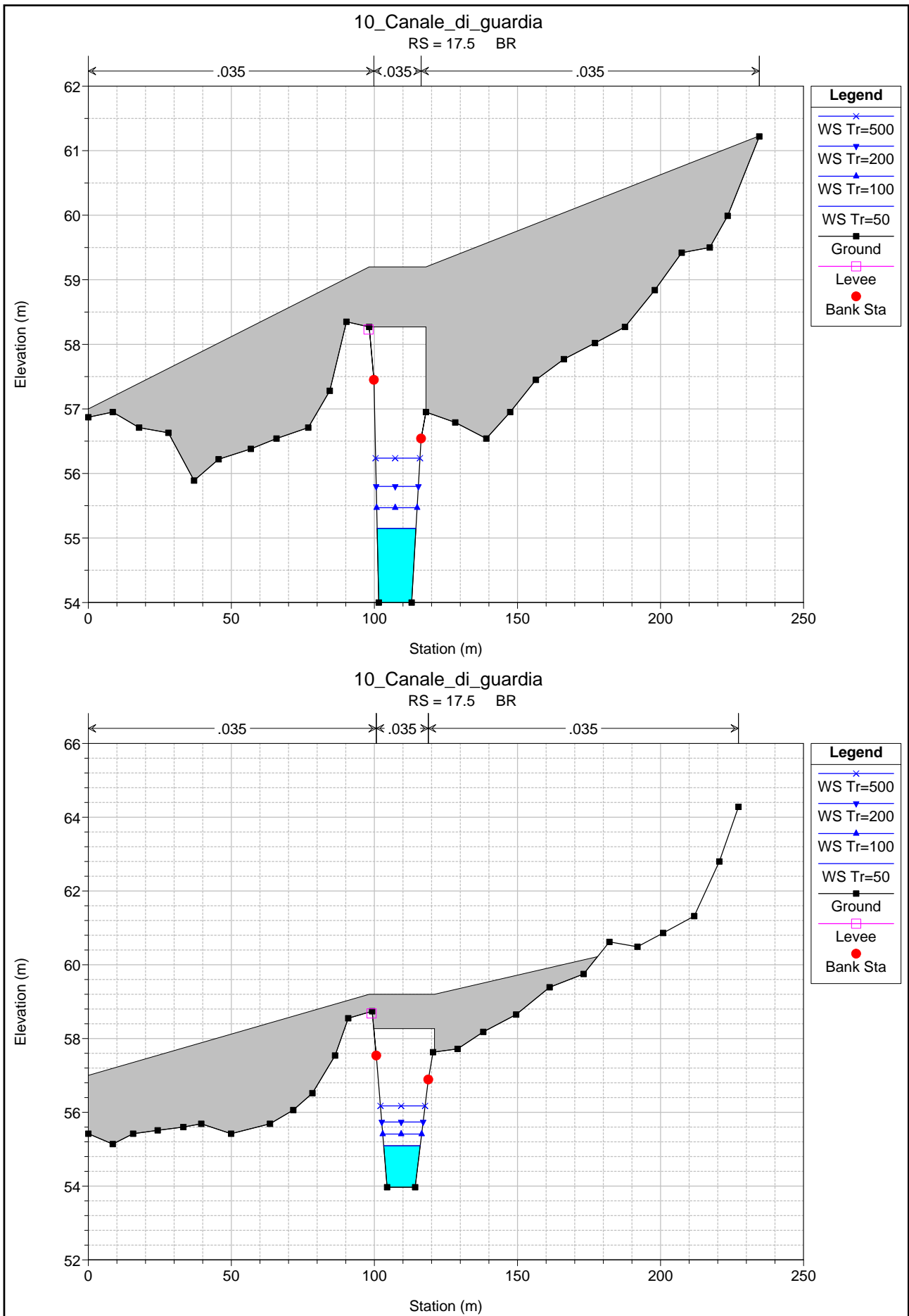


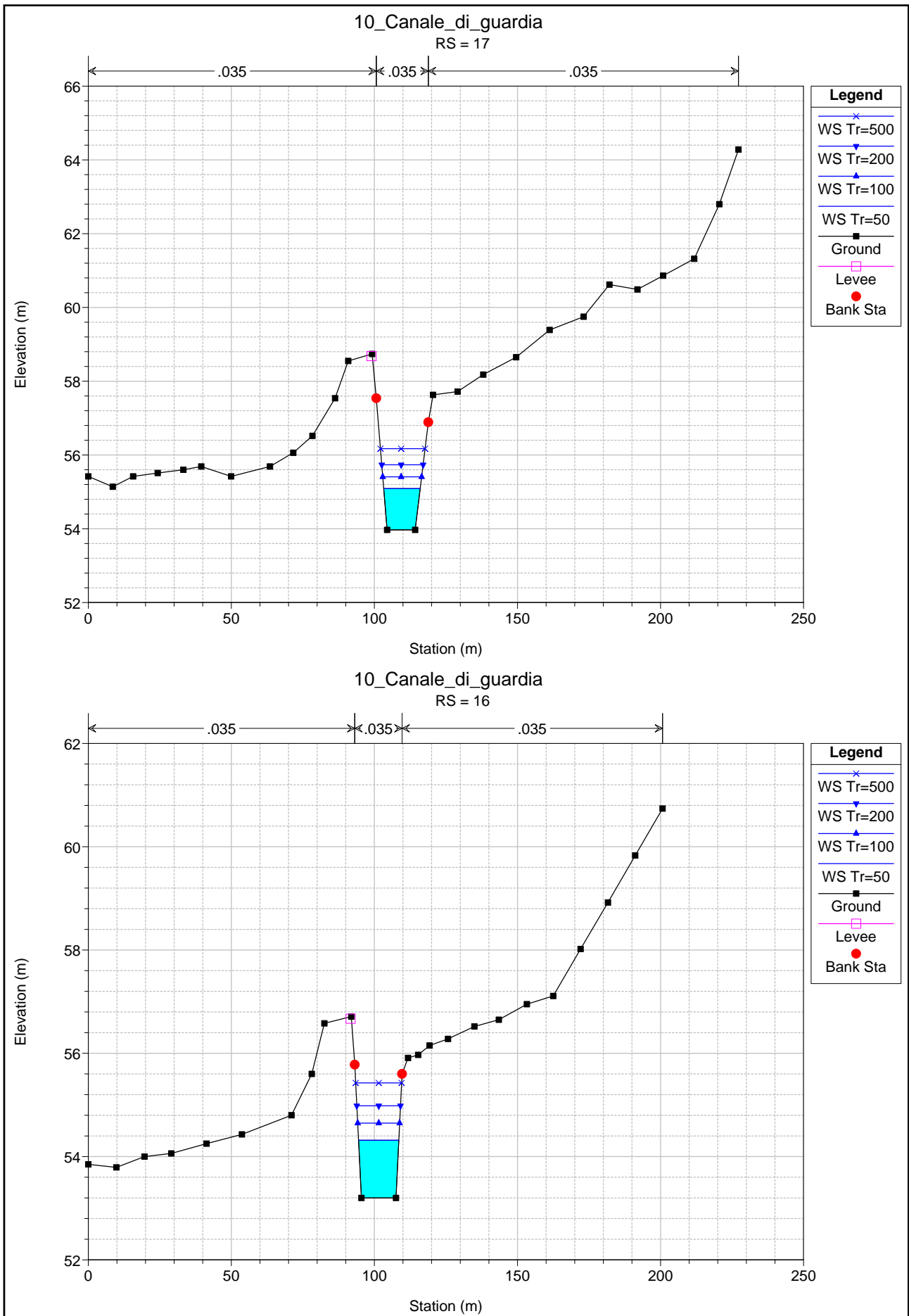


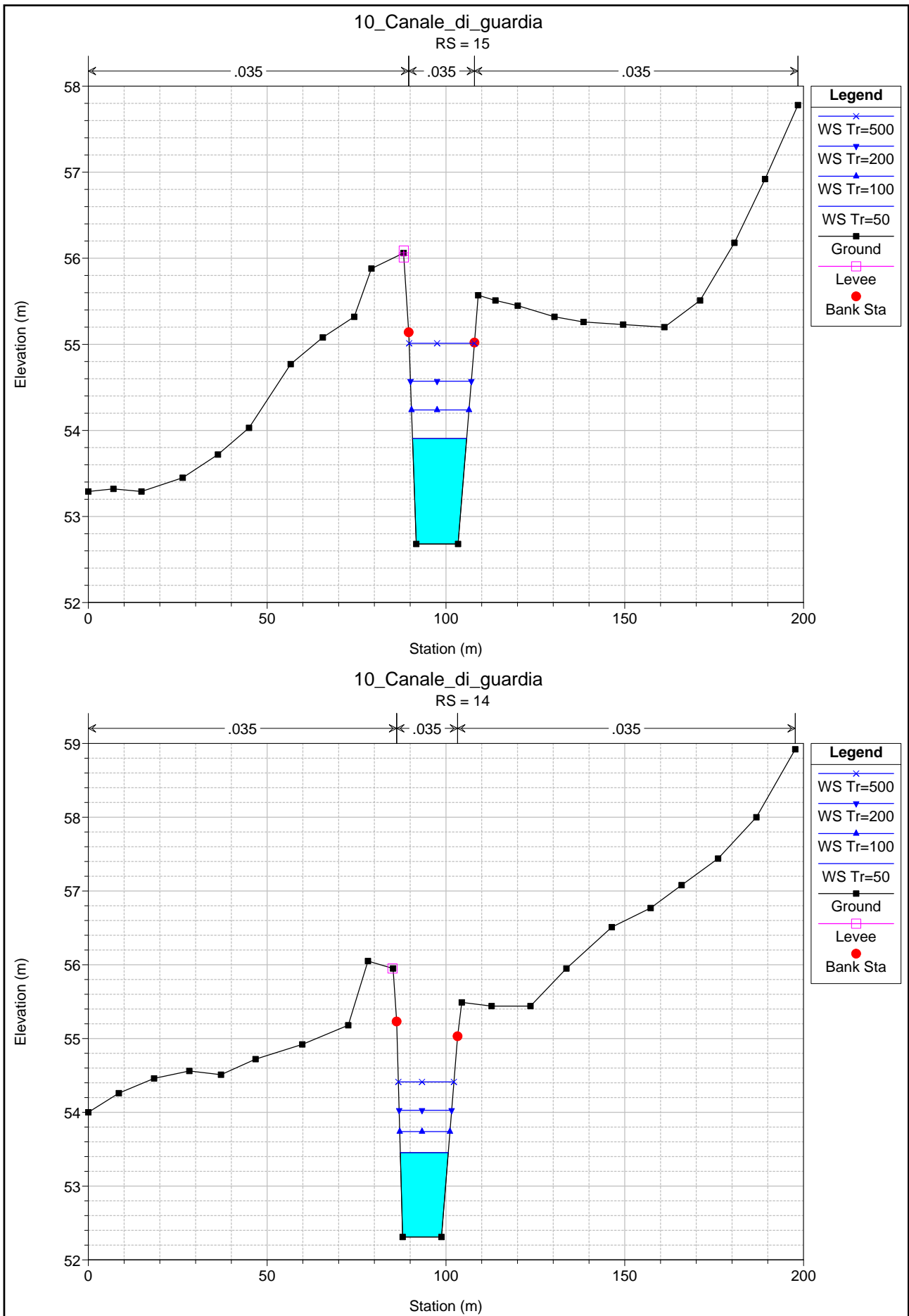


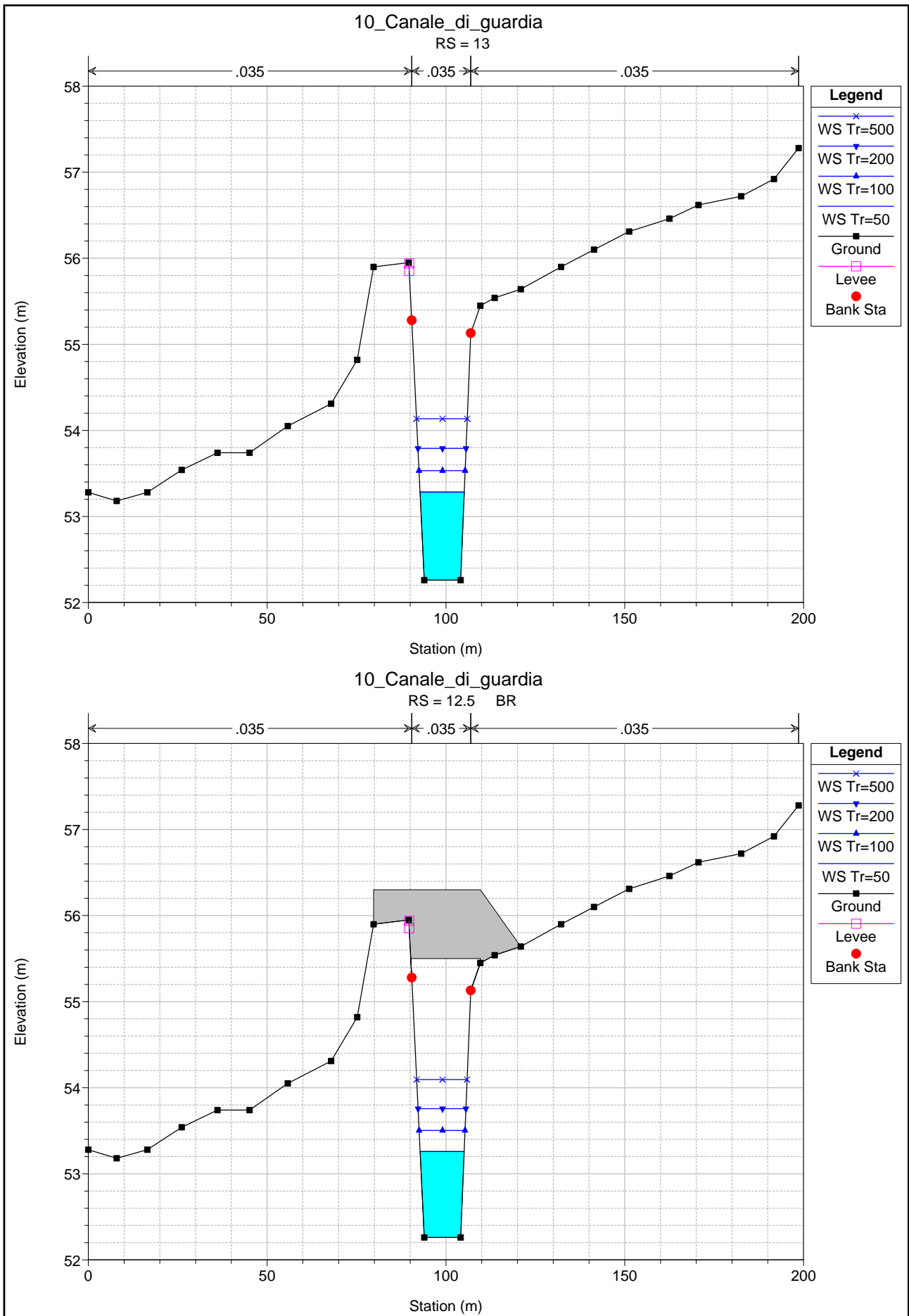


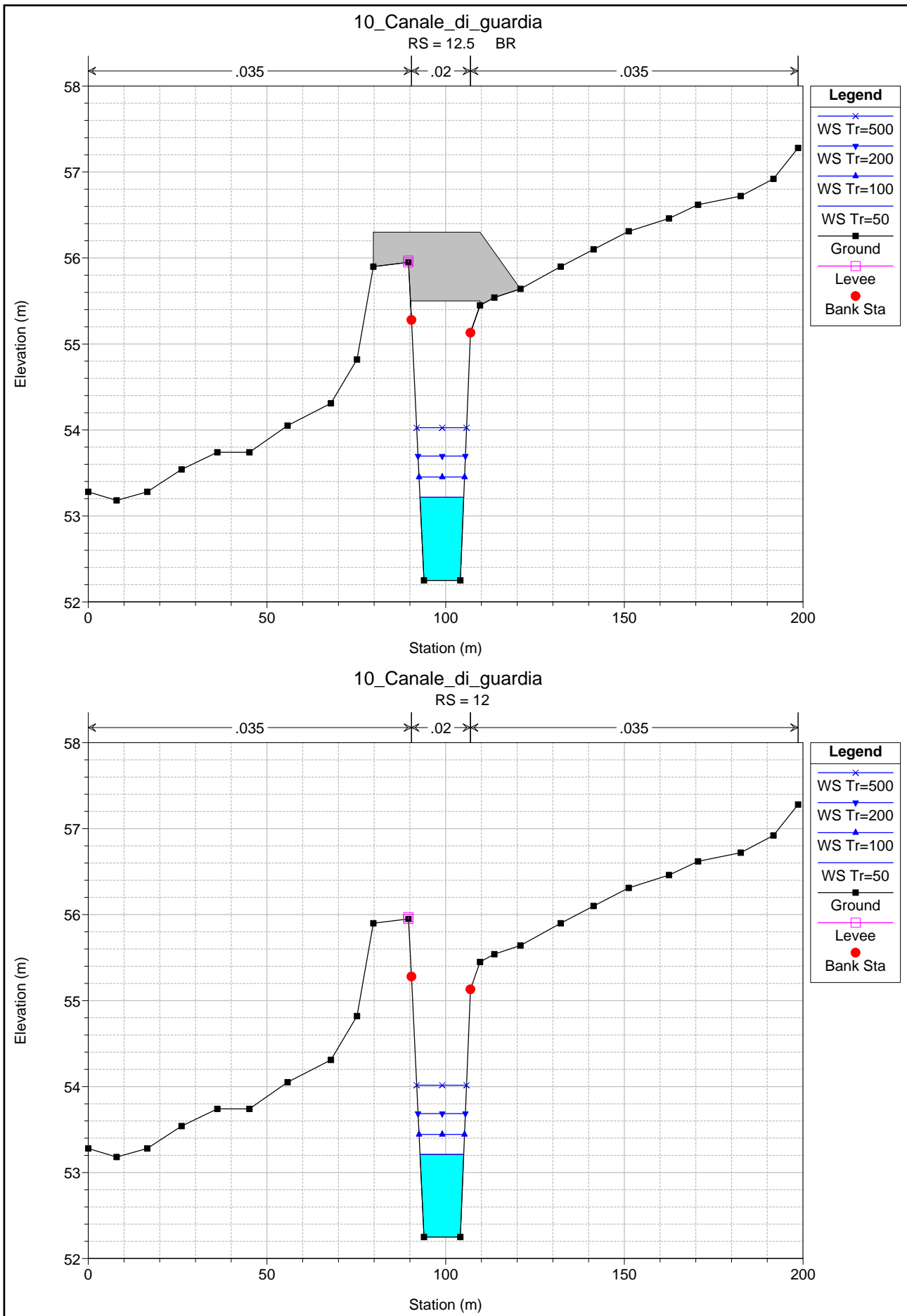


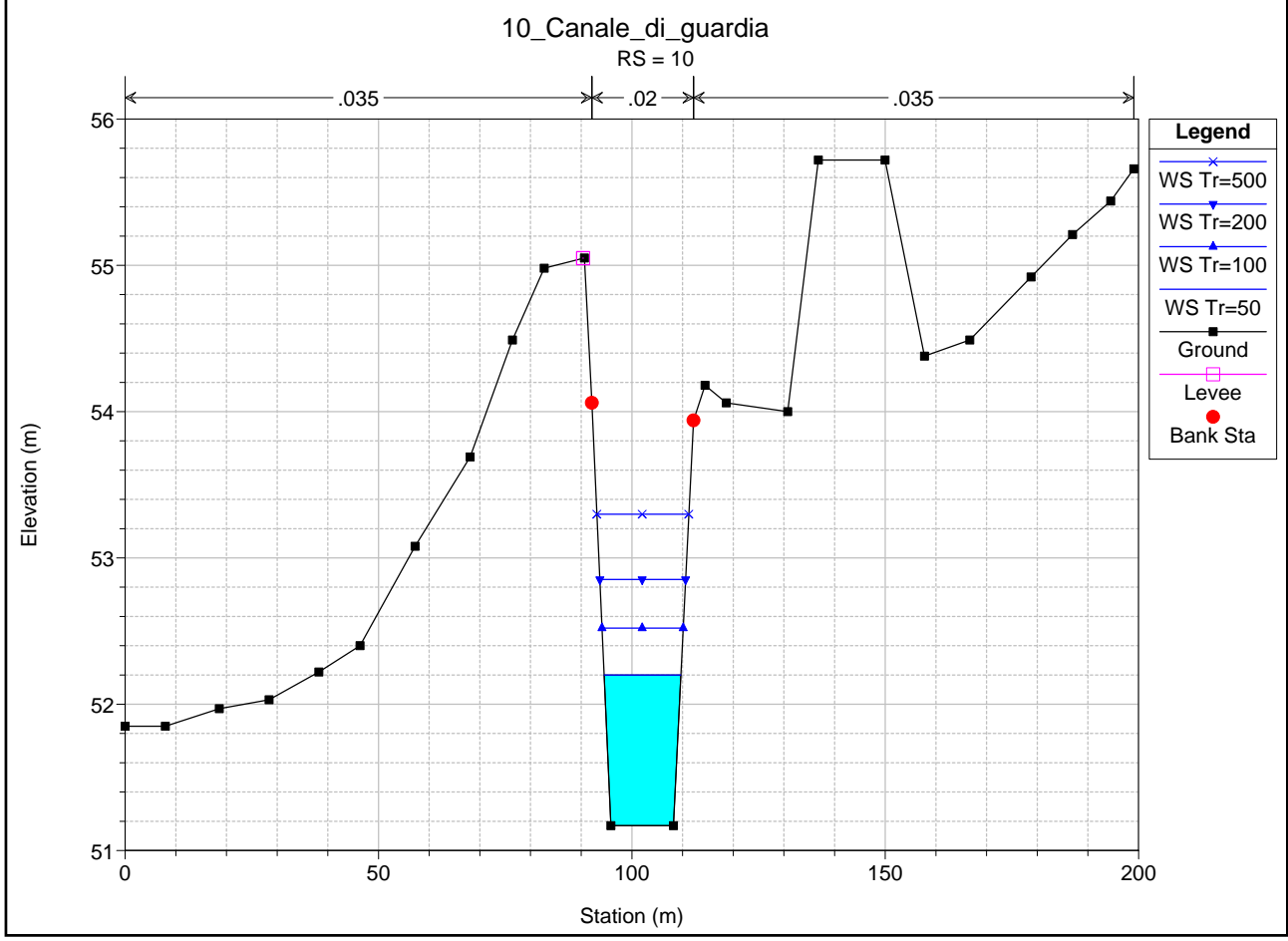
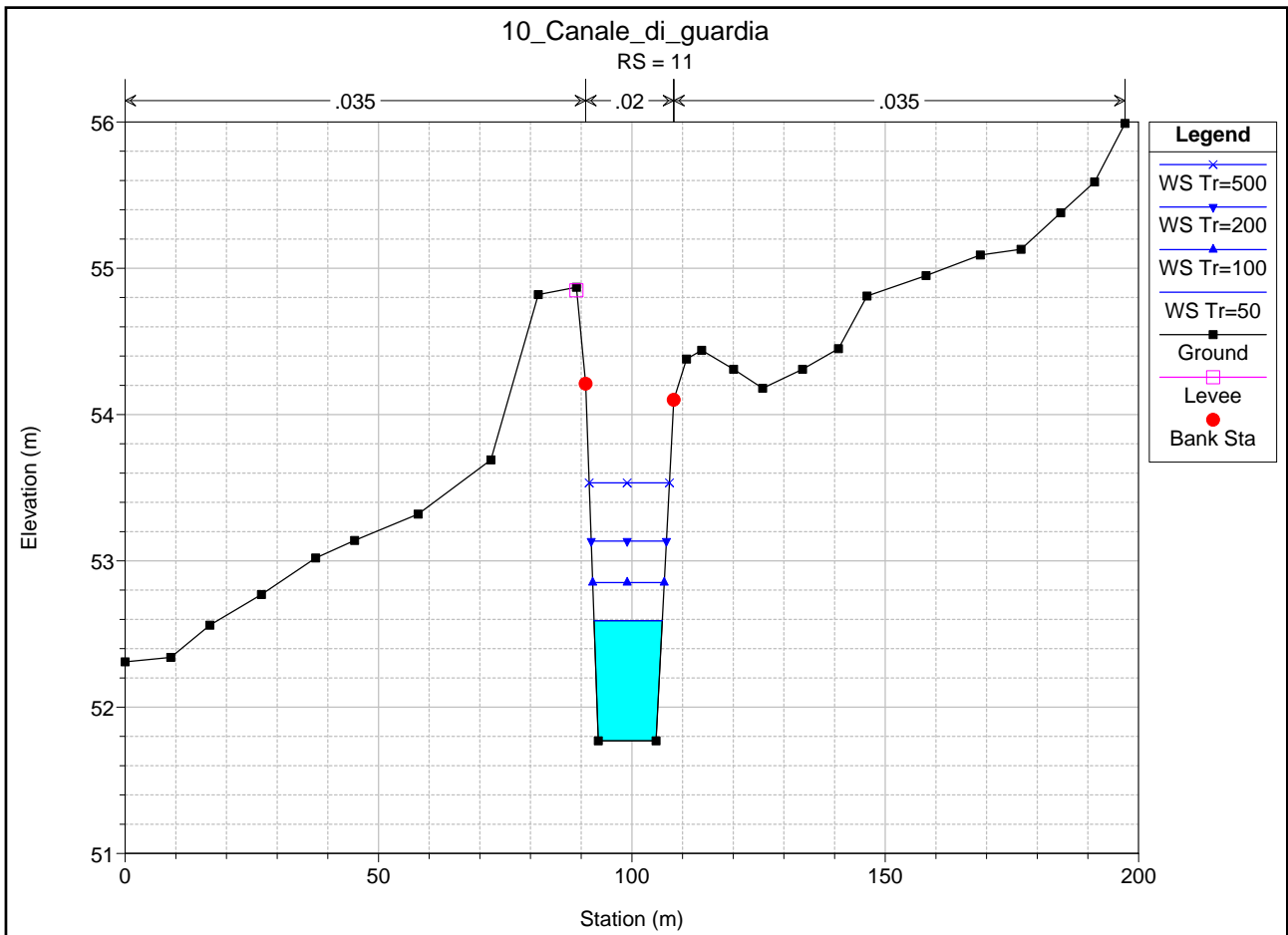


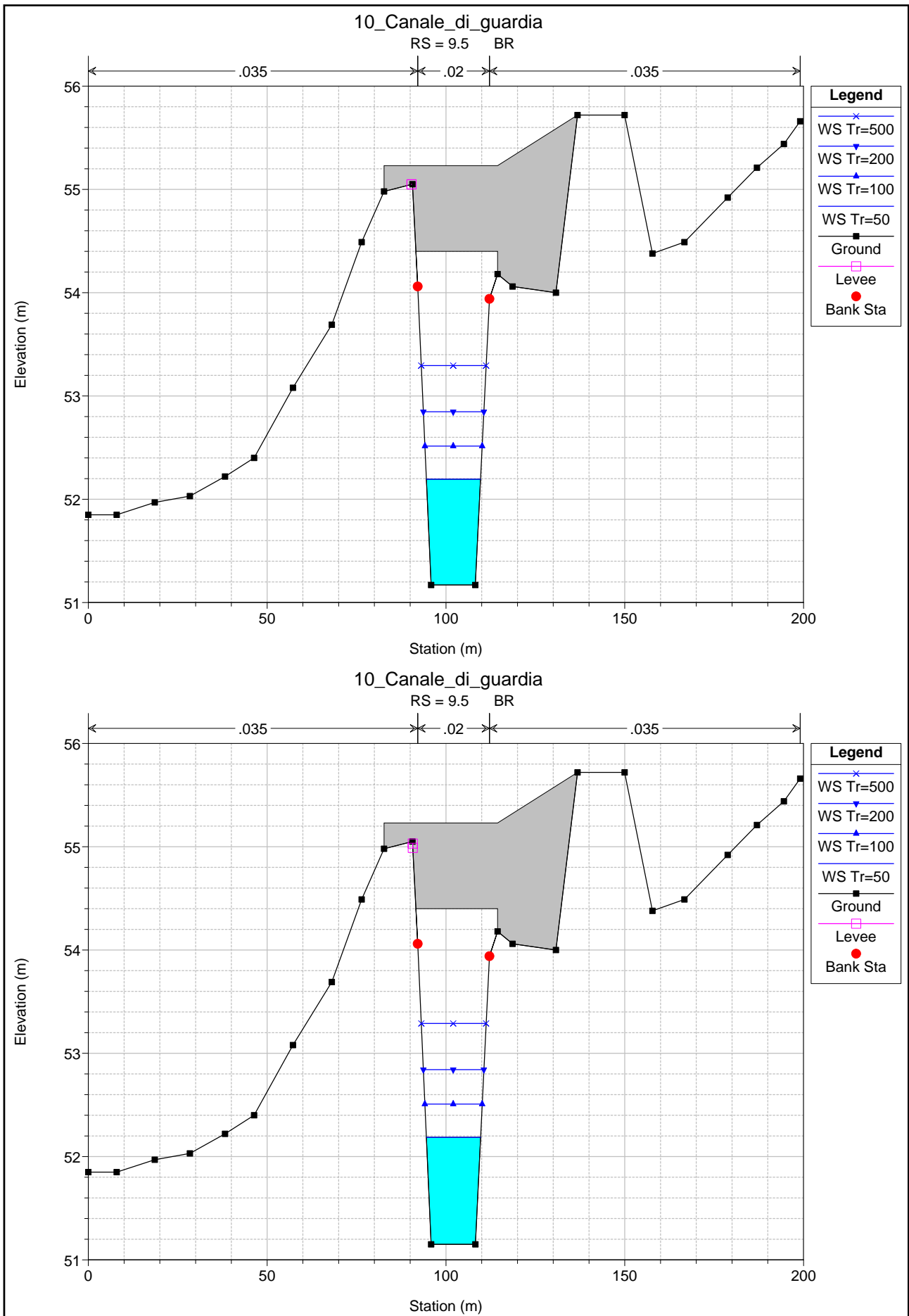


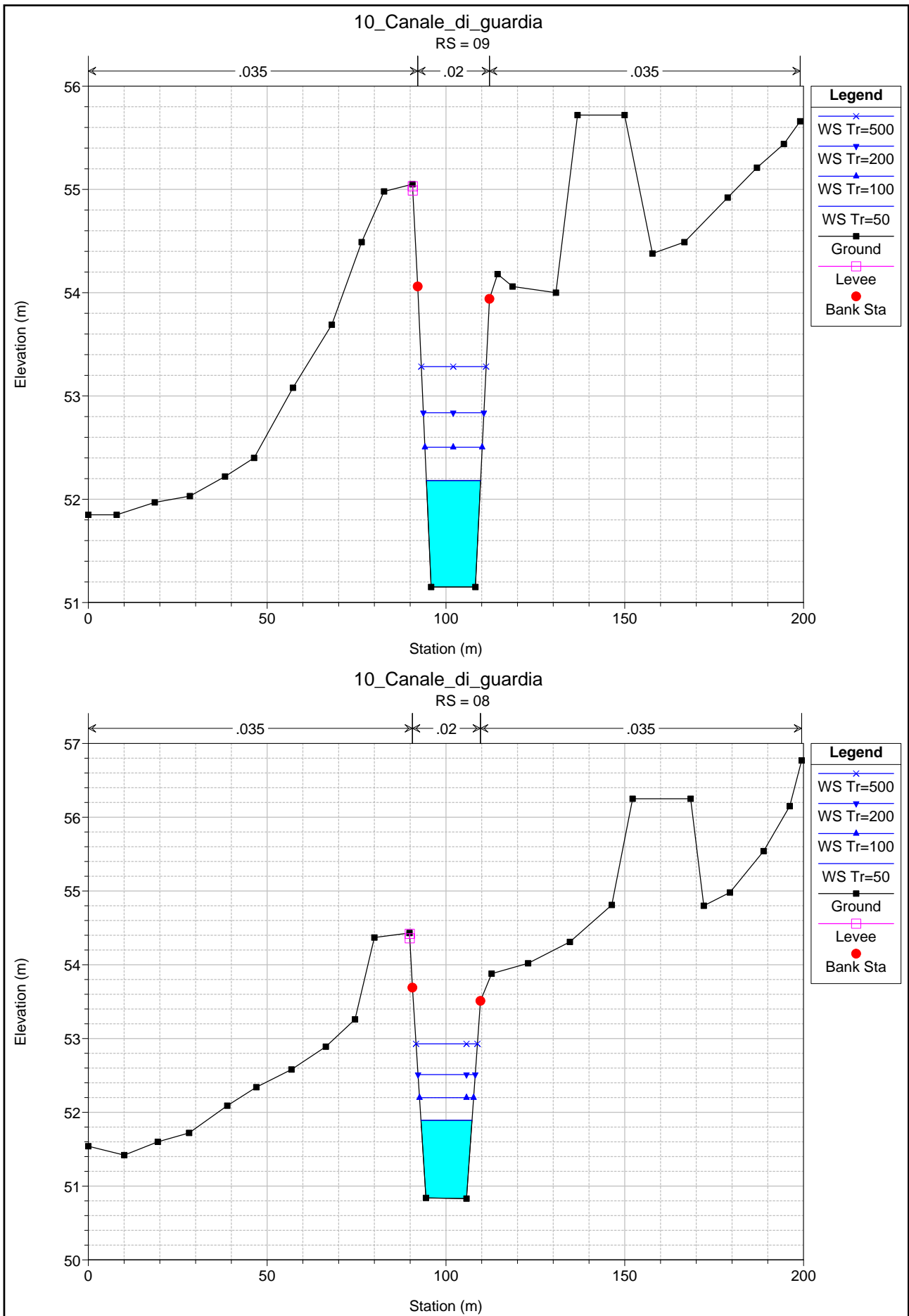


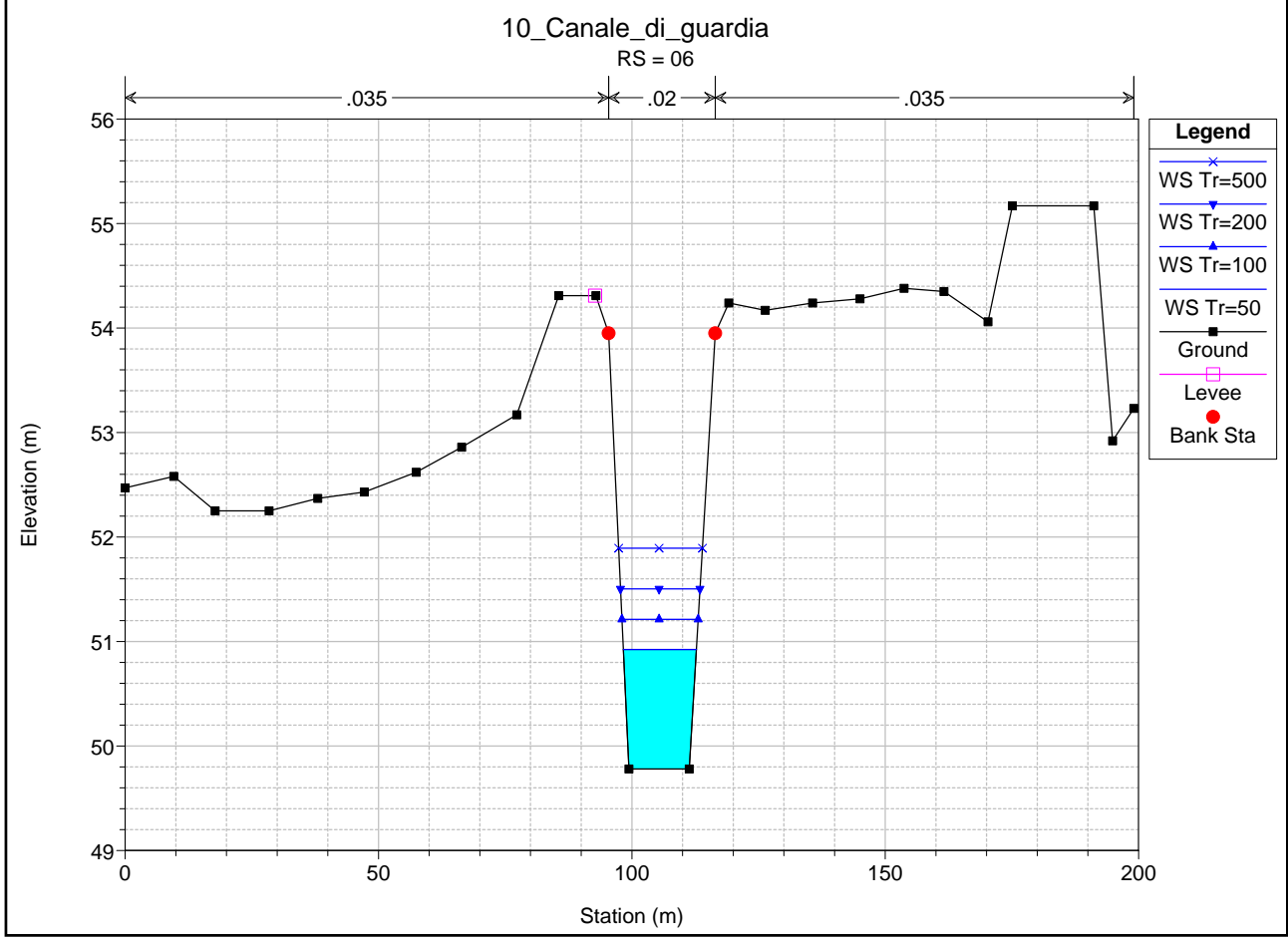
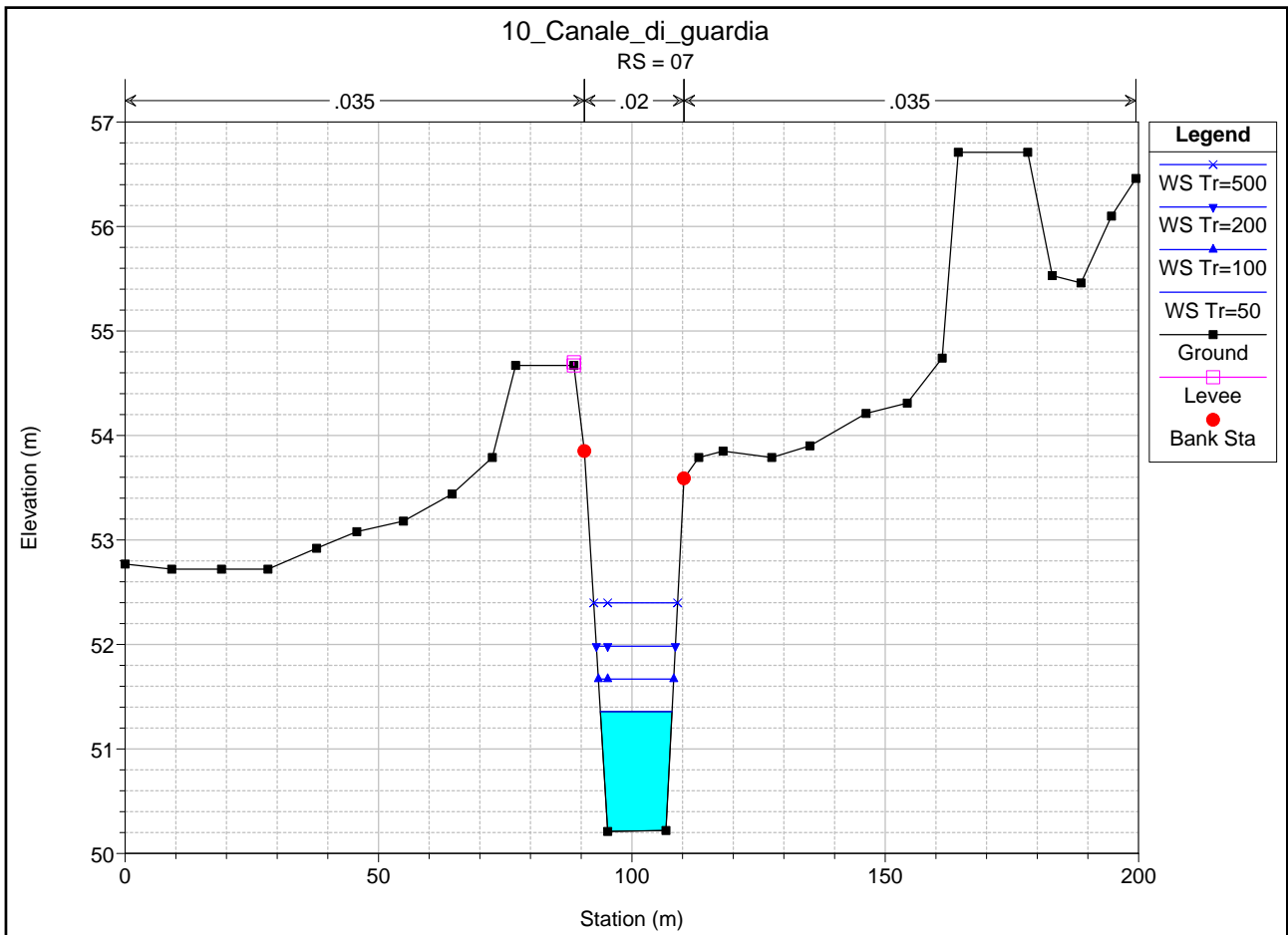


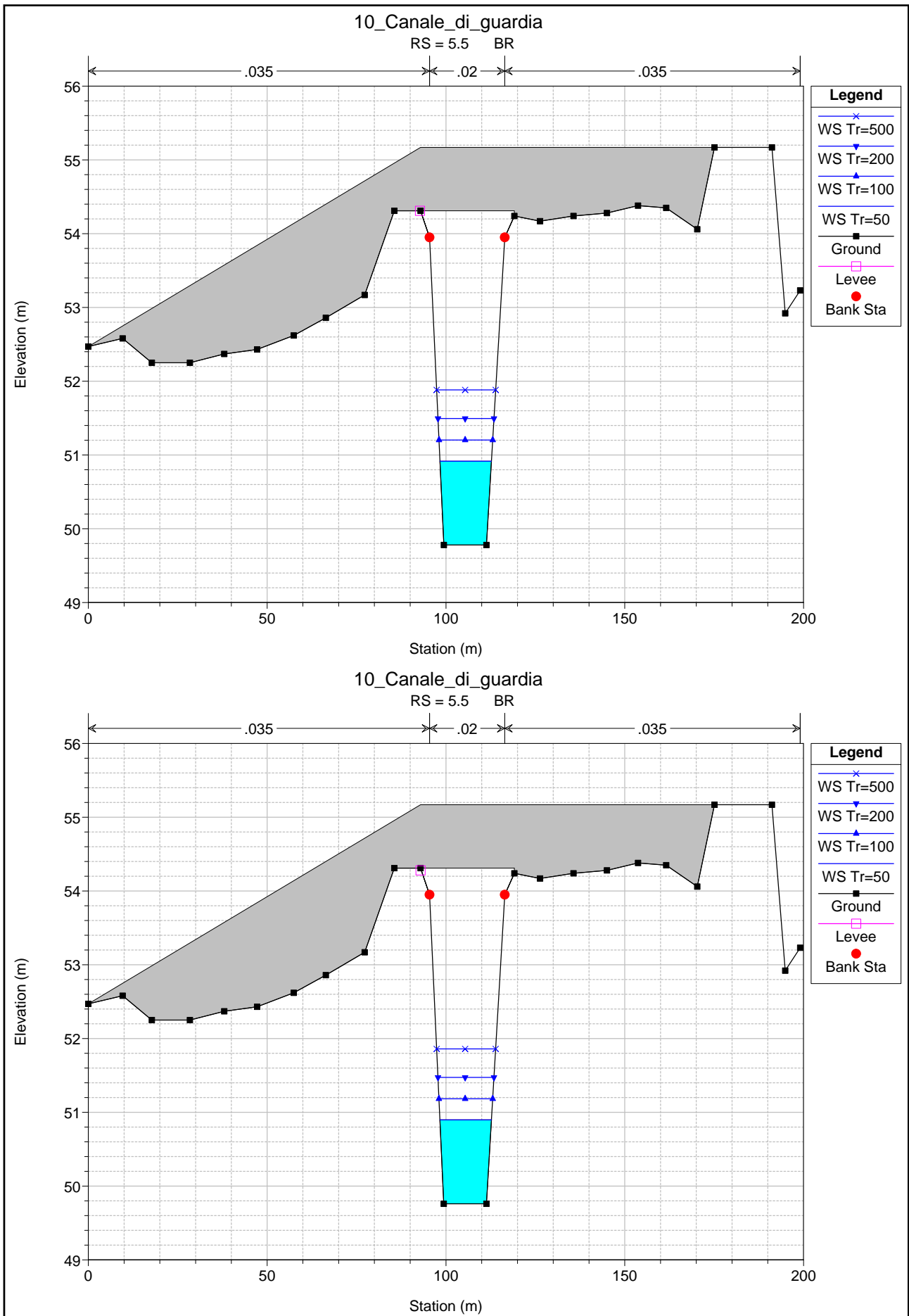


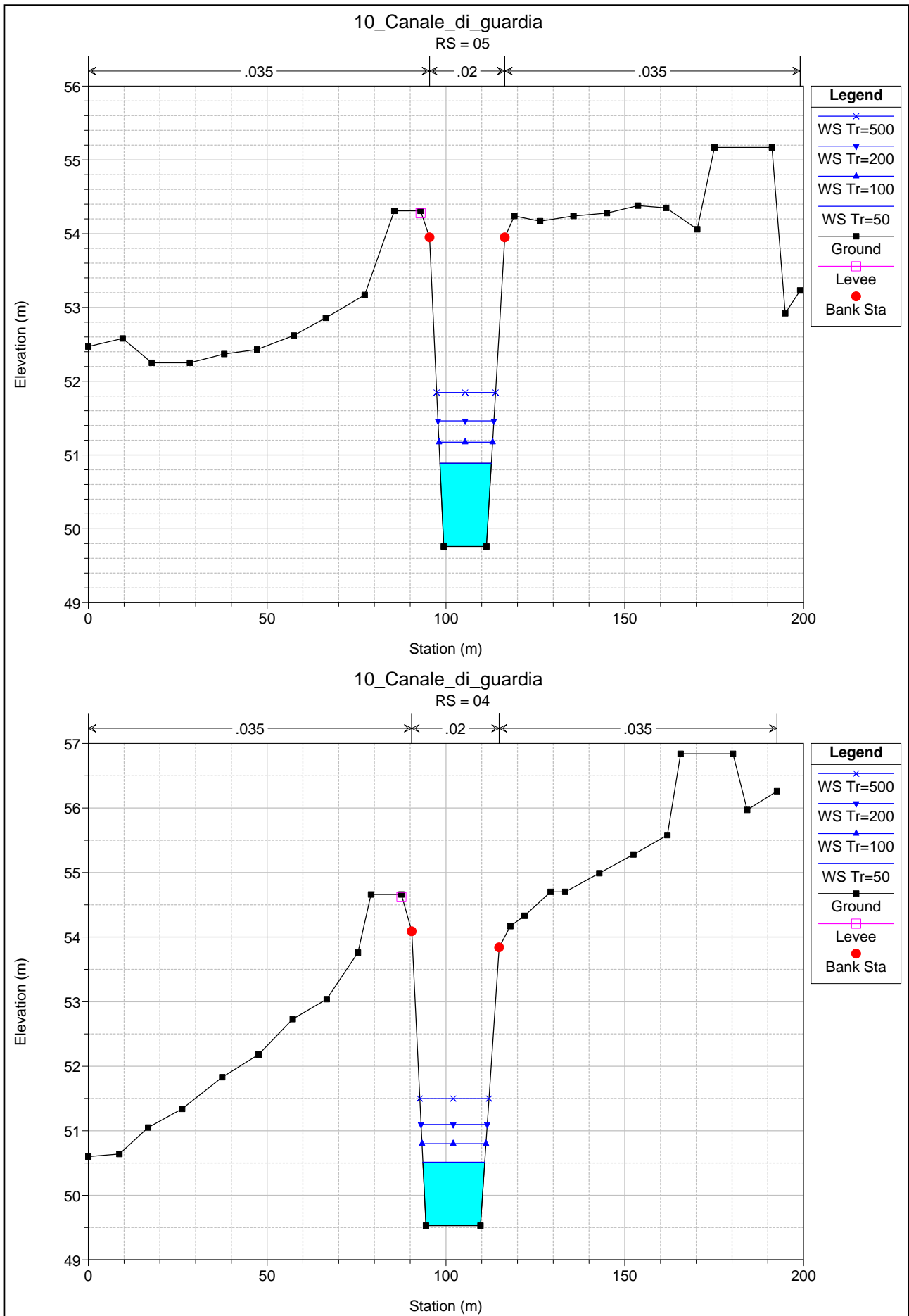


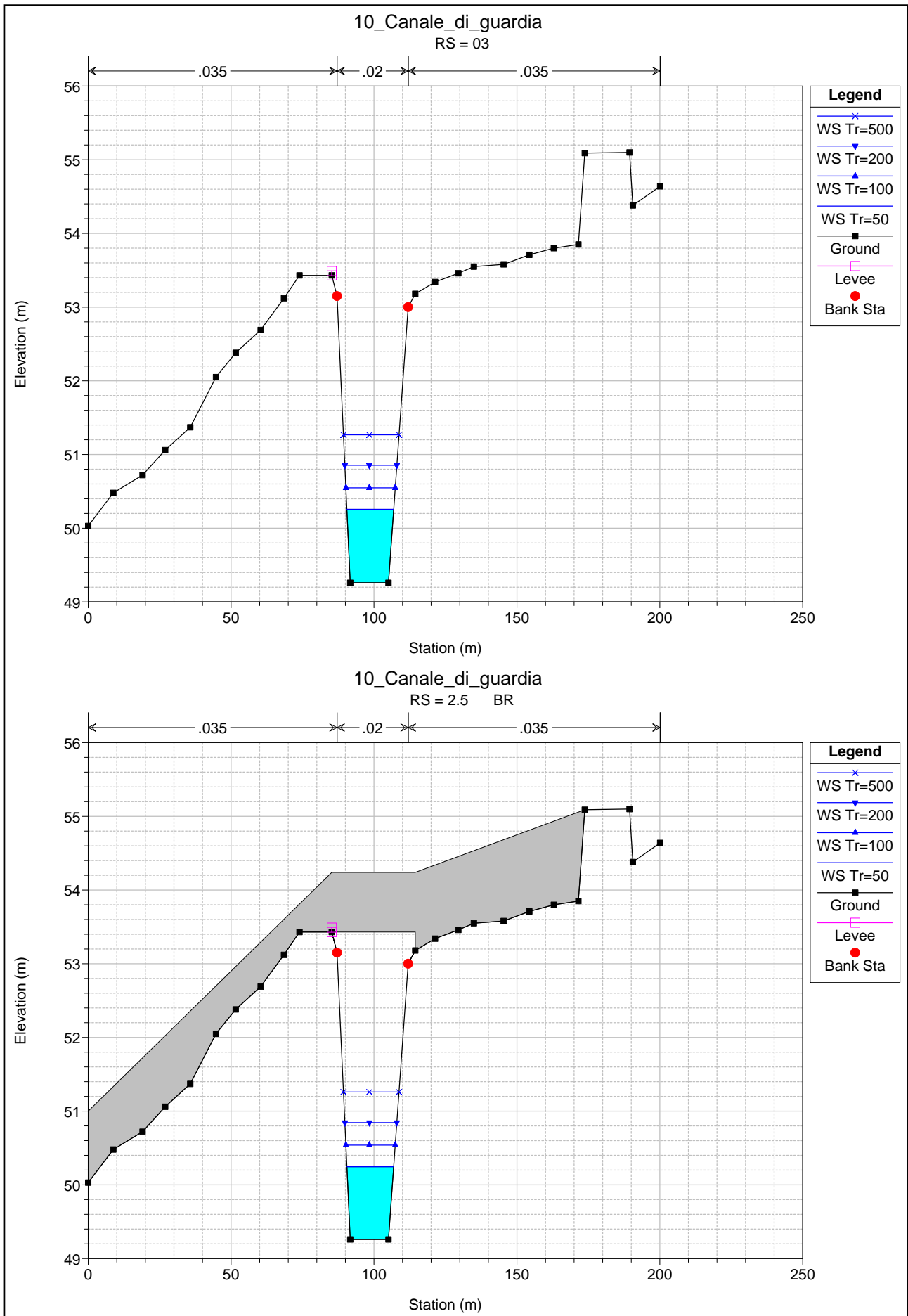


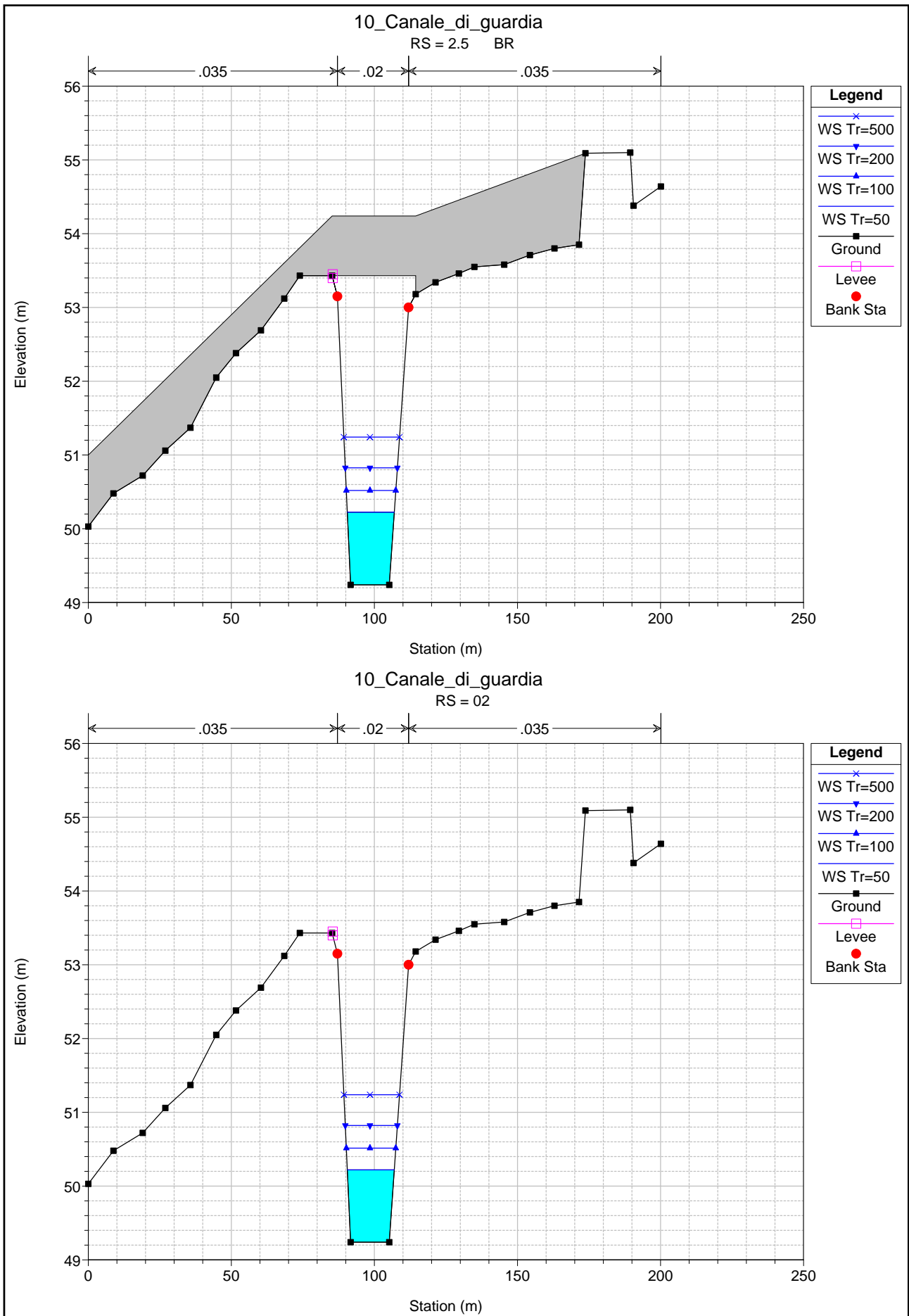


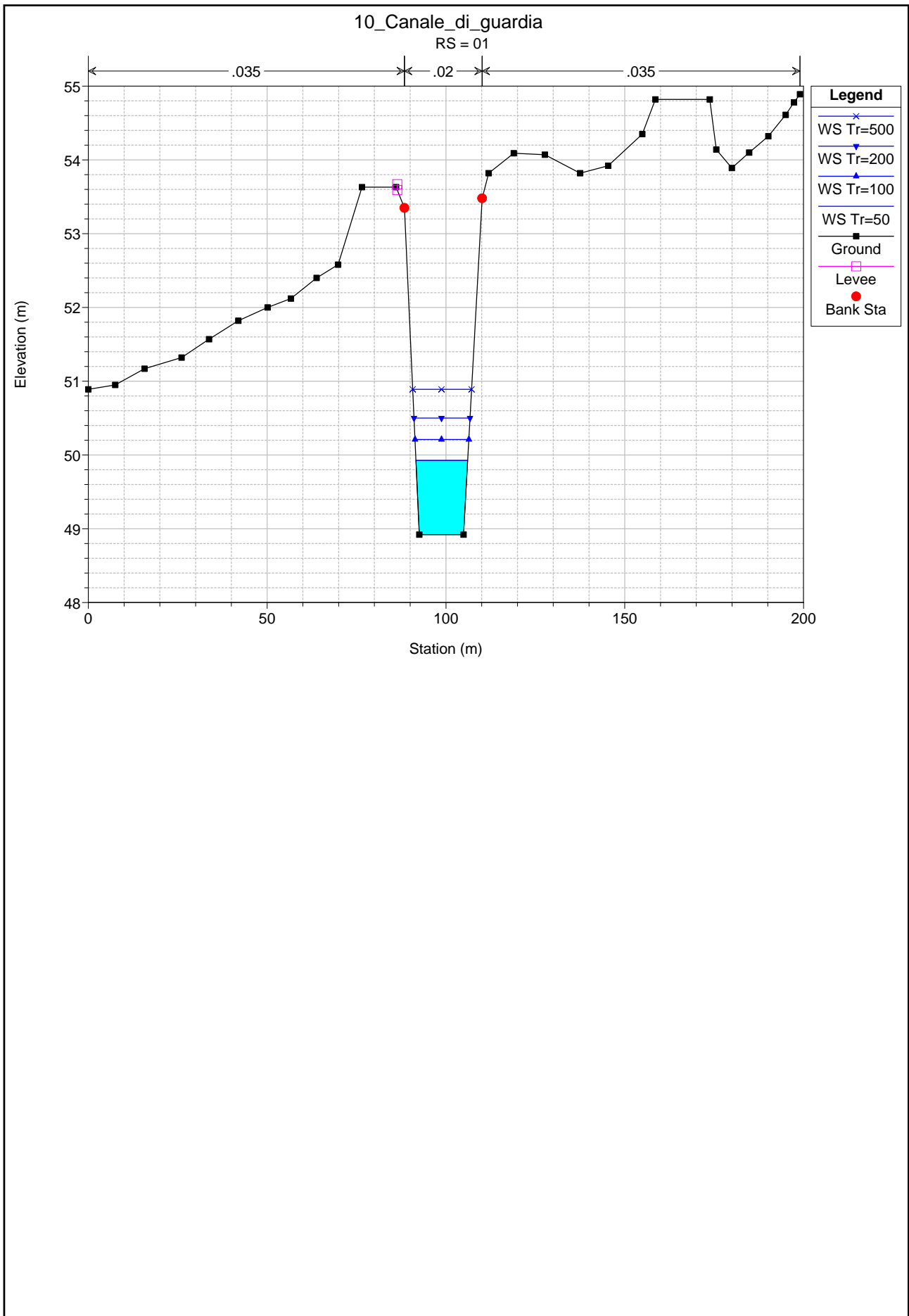






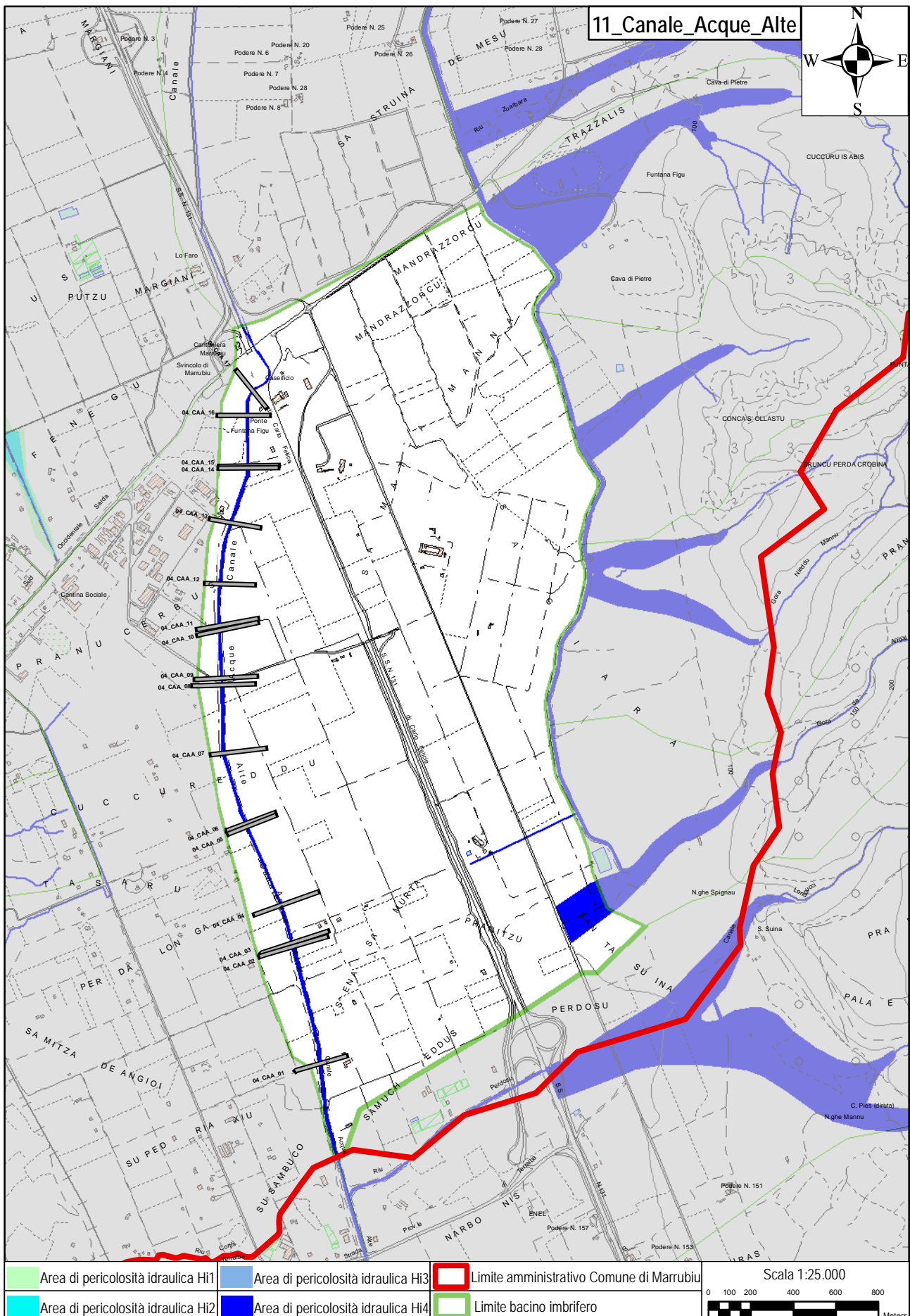






4. Canale delle Acque Alte - Sud

Inquadramento



Principali grandezze morfometriche

CANALE DELLE ACQUE ALTE – SUD – sub-bacino n. 11			
Superficie del bacino	S	6,09	[km ²]
Altitudine massima	H_{max}	66,5	[m slm]
Altitudine minima	H_{min}	22,4	[m slm]
Altitudine media	H_{med}	41,1	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	44,1	[m]
Pendenza media del bacino	p_m	2,4	[%]
Lunghezza dell'asta principale	L	4,29	[km]
Pendenza dell'asta principale	i	0,4	[%]
Quota della sezione di chiusura	H_{min}	23,2	[m slm]
Curve Number	CN	71,62	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	3,65	[m/s]
Ventura	t_c	4,84	[m/s]
Giandotti	t_c	4,71	[m/s]
Pasini	t_c	4,95	[m/s]
VAPI	t_c	4,58	[m/s]
Viparelli	t_c	1,19	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 17)	6,73	9,71	13,16	18,32	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

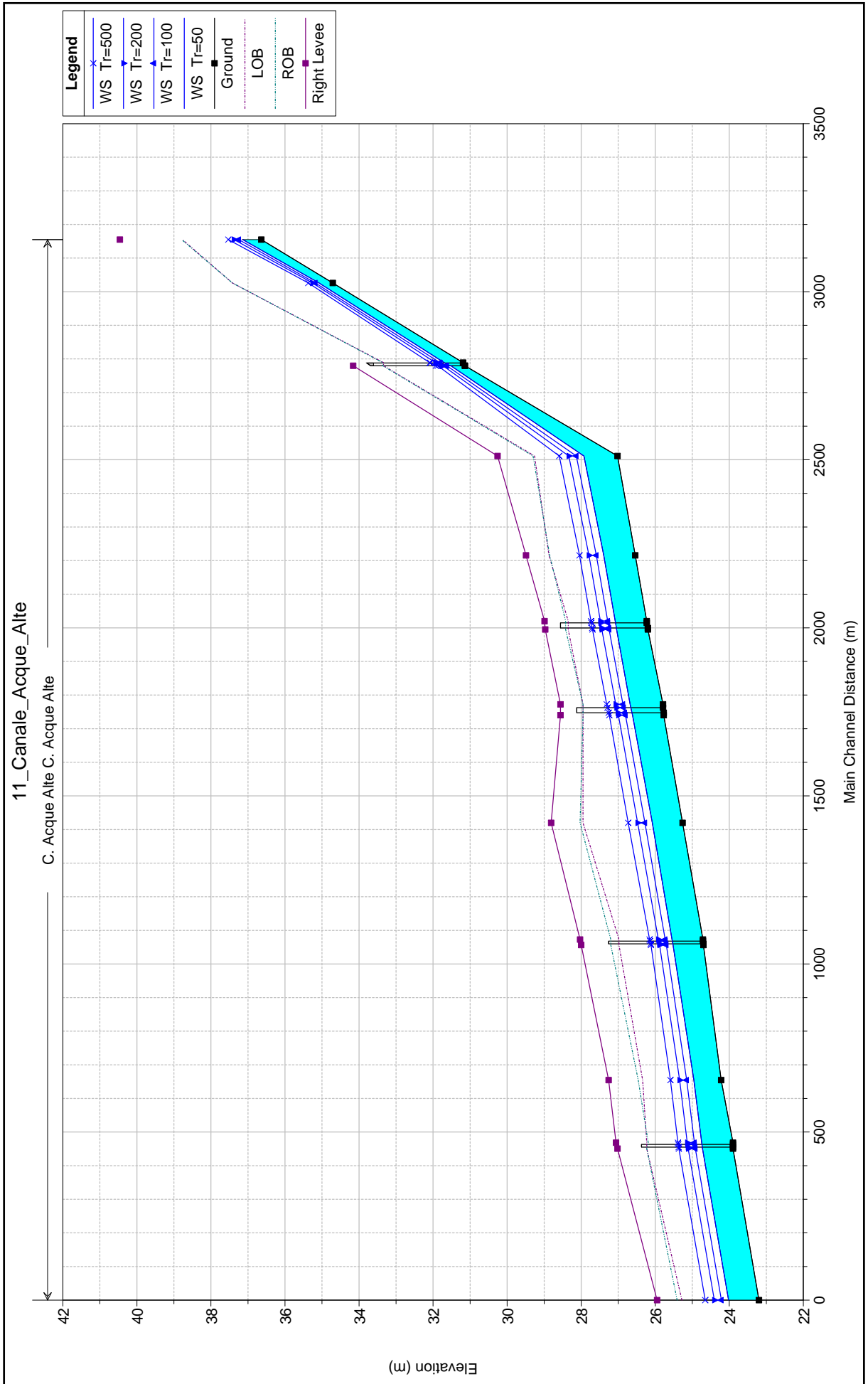
HEC-RAS Plan: 1 River: C. Acque Alte Reach: C. Acque Alte

Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
C. Acque Alte	17	Tr=50	128.79	6.73	36.64	37.14	1.98	3.39	0.94
C. Acque Alte	17	Tr=100	128.79	9.71	36.64	37.25	2.30	4.22	1.00
C. Acque Alte	17	Tr=200	128.79	13.16	36.64	37.38	2.51	5.25	1.00
C. Acque Alte	17	Tr=500	128.79	18.32	36.64	37.53	2.79	6.56	1.02
C. Acque Alte	16	Tr=50	237.20	6.73	34.71	35.08	1.87	3.60	1.00
C. Acque Alte	16	Tr=100	237.20	9.71	34.71	35.18	2.11	4.60	1.02
C. Acque Alte	16	Tr=200	237.20	13.16	34.71	35.26	2.42	5.45	1.08
C. Acque Alte	16	Tr=500	237.20	18.32	34.71	35.37	2.75	6.66	1.13
C. Acque Alte	15	Tr=50	1.00	6.73	31.19	31.70	1.42	4.75	0.66
C. Acque Alte	15	Tr=100	1.00	9.71	31.19	31.82	1.63	5.94	0.68
C. Acque Alte	15	Tr=200	1.00	13.16	31.19	31.94	1.83	7.19	0.71
C. Acque Alte	15	Tr=500	1.00	18.32	31.19	32.09	2.07	8.86	0.73
C. Acque Alte	14.5		Bridge						
C. Acque Alte	14	Tr=50	268.47	6.73	31.14	31.52	1.90	3.55	1.00
C. Acque Alte	14	Tr=100	268.47	9.71	31.14	31.63	2.12	4.58	1.00
C. Acque Alte	14	Tr=200	268.47	13.16	31.14	31.73	2.33	5.65	1.00
C. Acque Alte	14	Tr=500	268.47	18.32	31.14	31.87	2.58	7.09	1.00
C. Acque Alte	13	Tr=50	295.39	6.73	27.02	27.93	1.00	6.74	0.36
C. Acque Alte	13	Tr=100	295.39	9.71	27.02	28.13	1.13	8.56	0.37
C. Acque Alte	13	Tr=200	295.39	13.16	27.02	28.33	1.26	10.46	0.39
C. Acque Alte	13	Tr=500	295.39	18.32	27.02	28.59	1.41	13.04	0.40
C. Acque Alte	12	Tr=50	196.03	6.73	26.54	27.39	0.95	7.12	0.35
C. Acque Alte	12	Tr=100	196.03	9.71	26.54	27.59	1.06	9.14	0.36
C. Acque Alte	12	Tr=200	196.03	13.16	26.54	27.79	1.17	11.29	0.37
C. Acque Alte	12	Tr=500	196.03	18.32	26.54	28.04	1.29	14.24	0.38
C. Acque Alte	11	Tr=50	5.00	6.73	26.23	27.08	0.87	7.76	0.32
C. Acque Alte	11	Tr=100	5.00	9.71	26.23	27.28	0.98	9.93	0.33
C. Acque Alte	11	Tr=200	5.00	13.16	26.23	27.48	1.08	12.19	0.34
C. Acque Alte	11	Tr=500	5.00	18.32	26.23	27.74	1.20	15.27	0.35
C. Acque Alte	10.5		Bridge						
C. Acque Alte	10	Tr=50	222.83	6.73	26.20	27.04	0.88	7.61	0.33
C. Acque Alte	10	Tr=100	222.83	9.71	26.20	27.25	0.99	9.77	0.34
C. Acque Alte	10	Tr=200	222.83	13.16	26.20	27.44	1.10	12.00	0.34
C. Acque Alte	10	Tr=500	222.83	18.32	26.20	27.70	1.22	15.05	0.35
C. Acque Alte	9	Tr=50	10.00	6.73	25.79	26.68	0.93	7.21	0.35
C. Acque Alte	9	Tr=100	10.00	9.71	25.79	26.87	1.06	9.16	0.36
C. Acque Alte	9	Tr=200	10.00	13.16	25.79	27.06	1.17	11.22	0.37
C. Acque Alte	9	Tr=500	10.00	18.32	25.79	27.31	1.30	14.08	0.38
C. Acque Alte	8.5		Bridge						
C. Acque Alte	8	Tr=50	320.50	6.73	25.77	26.61	1.00	6.75	0.38
C. Acque Alte	8	Tr=100	320.50	9.71	25.77	26.80	1.12	8.63	0.39
C. Acque Alte	8	Tr=200	320.50	13.16	25.77	26.99	1.24	10.63	0.40
C. Acque Alte	8	Tr=500	320.50	18.32	25.77	27.24	1.36	13.42	0.41
C. Acque Alte	7	Tr=50	346.81	6.73	25.26	26.08	0.84	8.02	0.32
C. Acque Alte	7	Tr=100	346.81	9.71	25.26	26.28	0.94	10.36	0.32
C. Acque Alte	7	Tr=200	346.81	13.16	25.26	26.47	1.03	12.82	0.33
C. Acque Alte	7	Tr=500	346.81	18.32	25.26	26.73	1.13	16.21	0.33
C. Acque Alte	6	Tr=50	5.00	6.73	24.71	25.55	0.91	7.41	0.33
C. Acque Alte	6	Tr=100	5.00	9.71	24.71	25.73	1.05	9.24	0.35
C. Acque Alte	6	Tr=200	5.00	13.16	24.71	25.91	1.18	11.14	0.37
C. Acque Alte	6	Tr=500	5.00	18.32	24.71	26.15	1.34	13.70	0.38

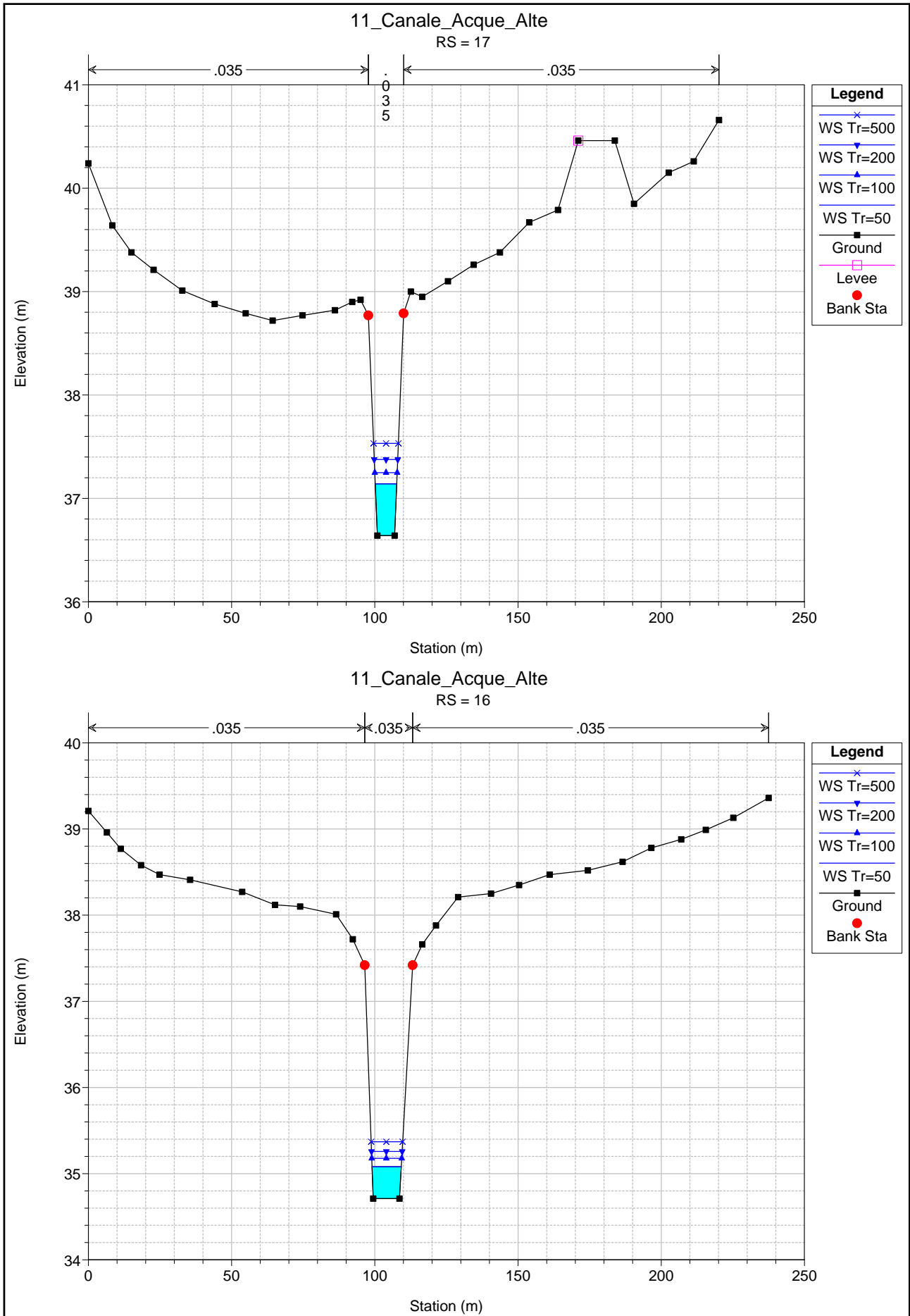
HEC-RAS Plan: 1 River: C. Acque Alte Reach: C. Acque Alte (Continued)

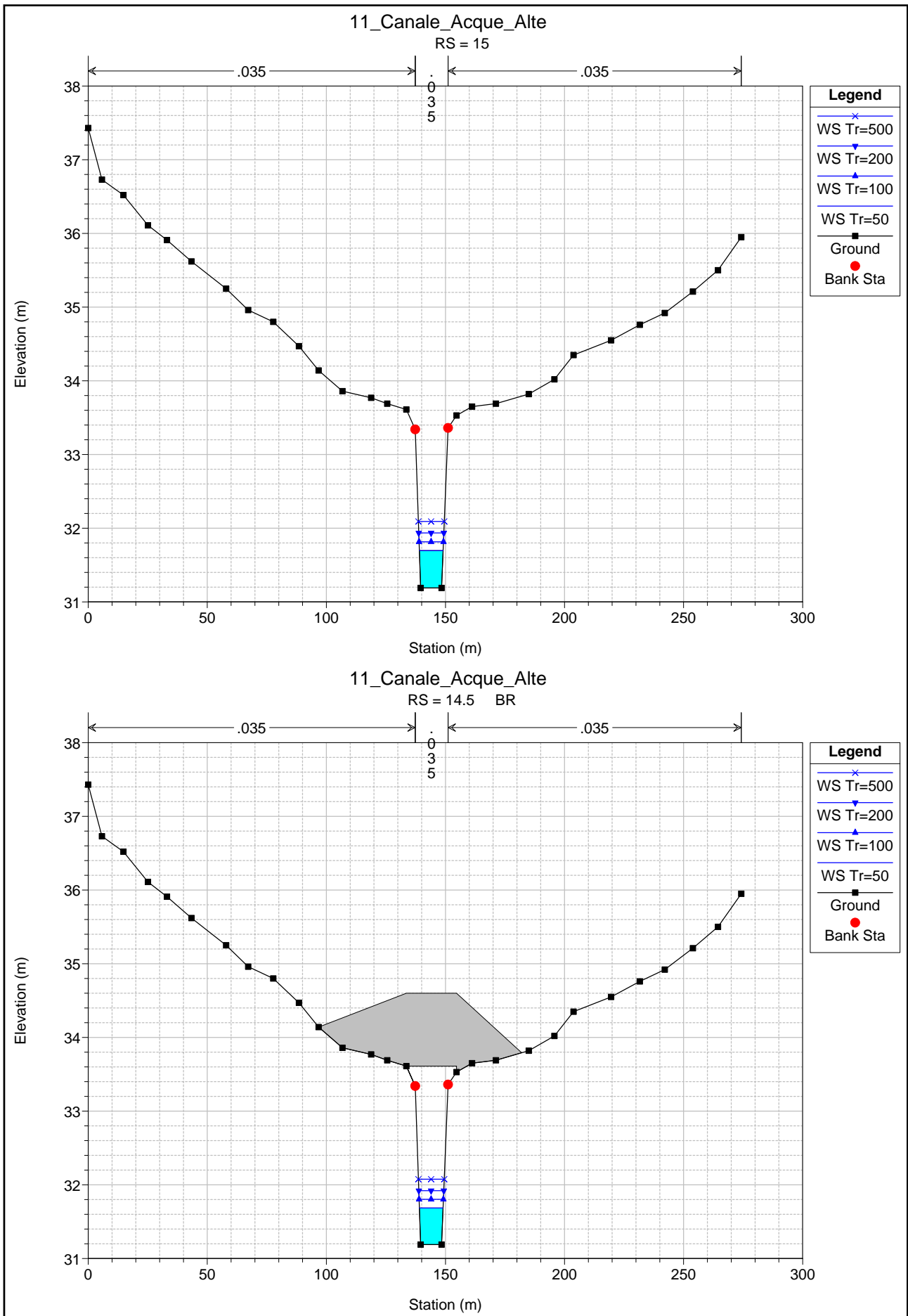
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
C. Acque Alte	5.5		Bridge						
C. Acque Alte	05	Tr=50	402.04	6.73	24.70	25.52	0.93	7.20	0.35
C. Acque Alte	05	Tr=100	402.04	9.71	24.70	25.70	1.08	8.99	0.37
C. Acque Alte	05	Tr=200	402.04	13.16	24.70	25.88	1.21	10.86	0.38
C. Acque Alte	05	Tr=500	402.04	18.32	24.70	26.12	1.37	13.38	0.40
C. Acque Alte	04	Tr=50	186.38	6.73	24.22	24.96	0.73	9.19	0.29
C. Acque Alte	04	Tr=100	186.38	9.71	24.22	25.15	0.81	11.98	0.29
C. Acque Alte	04	Tr=200	186.38	13.16	24.22	25.34	0.88	14.93	0.29
C. Acque Alte	04	Tr=500	186.38	18.32	24.22	25.59	0.96	19.02	0.29
C. Acque Alte	03	Tr=50	5.00	6.73	23.90	24.74	0.75	9.03	0.28
C. Acque Alte	03	Tr=100	5.00	9.71	23.90	24.94	0.84	11.52	0.29
C. Acque Alte	03	Tr=200	5.00	13.16	23.90	25.13	0.93	14.12	0.29
C. Acque Alte	03	Tr=500	5.00	18.32	23.90	25.39	1.03	17.72	0.30
C. Acque Alte	2.5		Bridge						
C. Acque Alte	02	Tr=50	450.54	6.73	23.90	24.72	0.77	8.73	0.29
C. Acque Alte	02	Tr=100	450.54	9.71	23.90	24.92	0.87	11.19	0.30
C. Acque Alte	02	Tr=200	450.54	13.16	23.90	25.11	0.96	13.75	0.30
C. Acque Alte	02	Tr=500	450.54	18.32	23.90	25.36	1.06	17.30	0.31
C. Acque Alte	01	Tr=50		6.73	23.20	24.02	0.98	6.88	0.37
C. Acque Alte	01	Tr=100		9.71	23.20	24.21	1.10	8.81	0.38
C. Acque Alte	01	Tr=200		13.16	23.20	24.40	1.21	10.85	0.39
C. Acque Alte	01	Tr=500		18.32	23.20	24.65	1.34	13.65	0.40

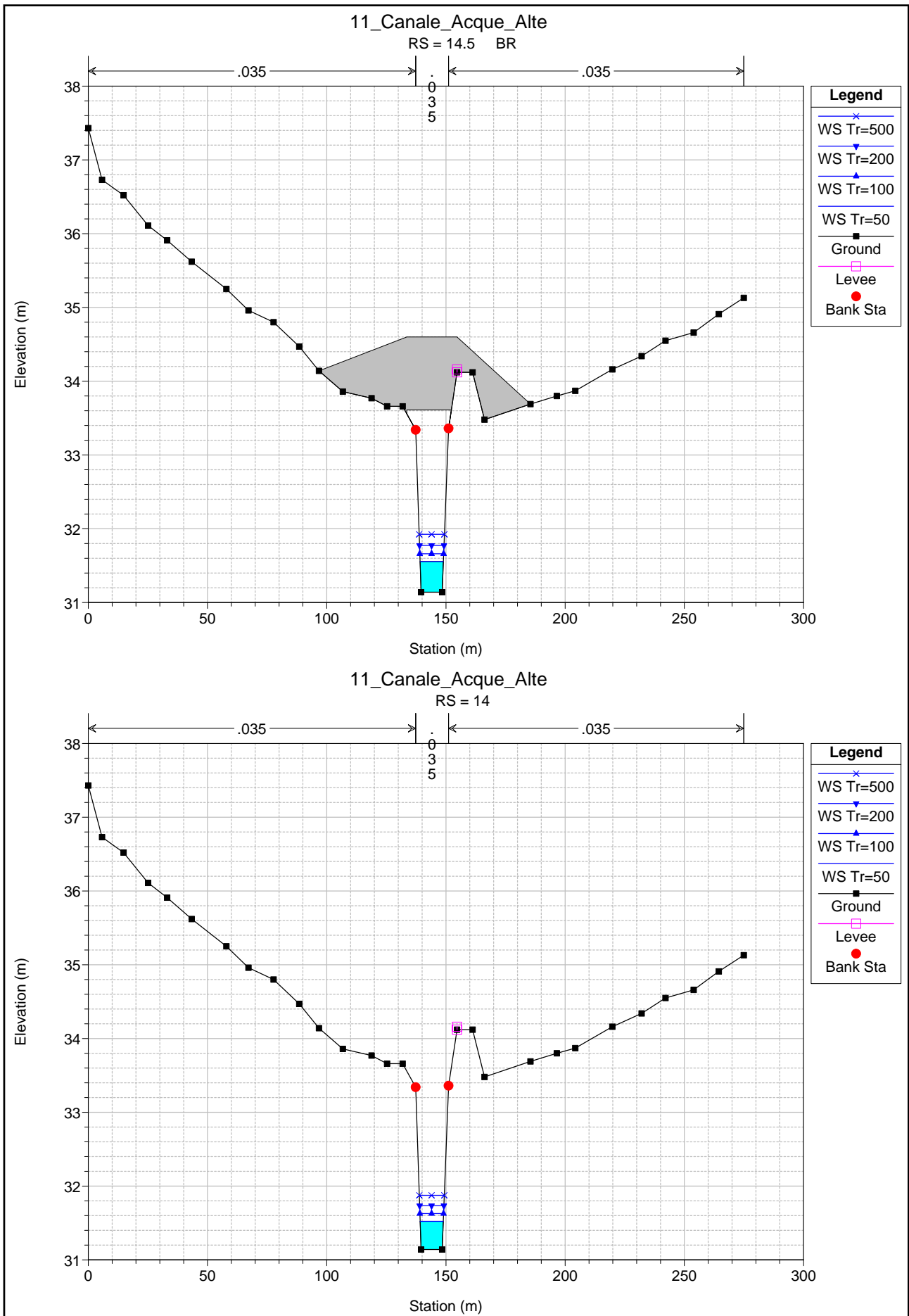
Profilo

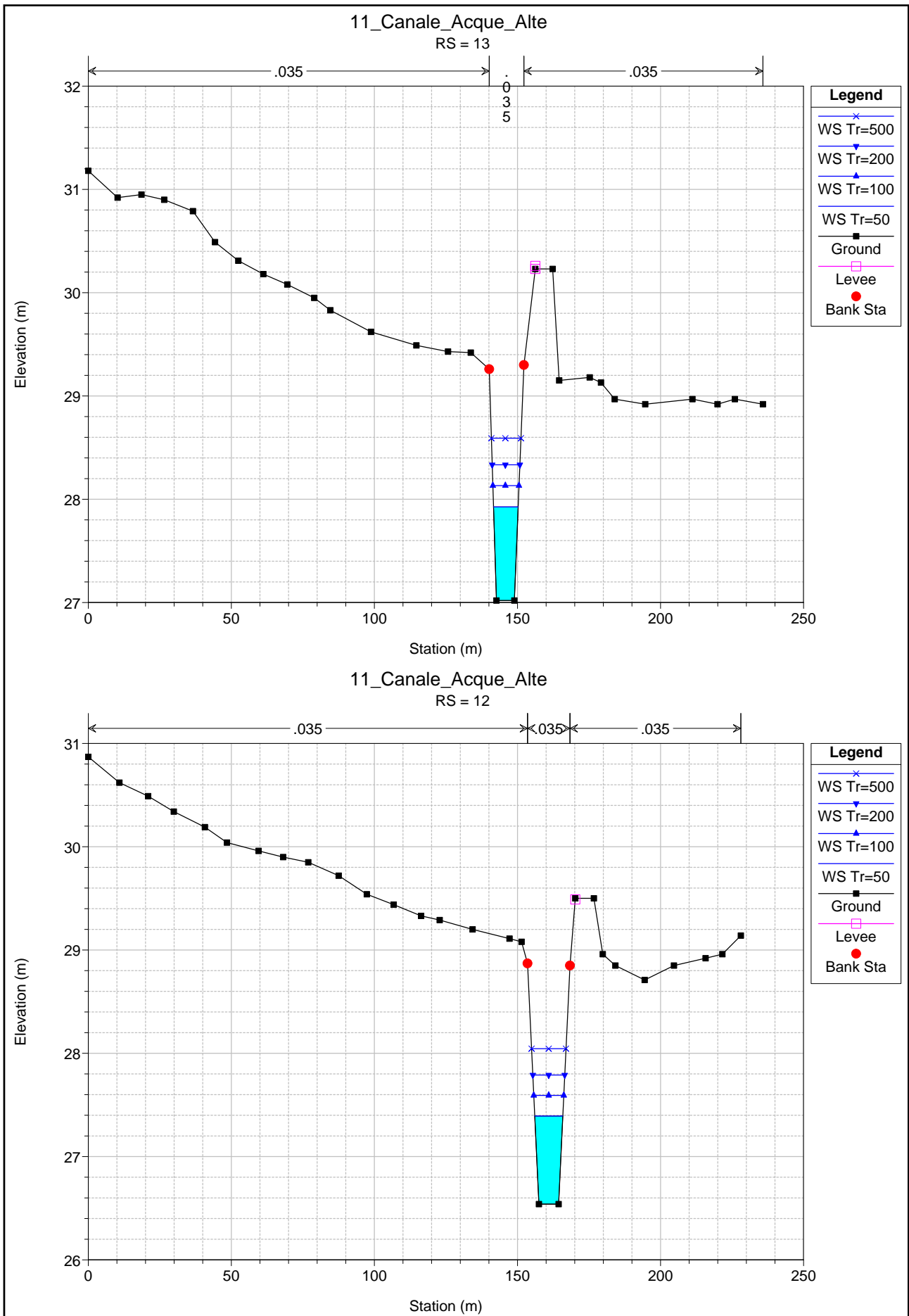


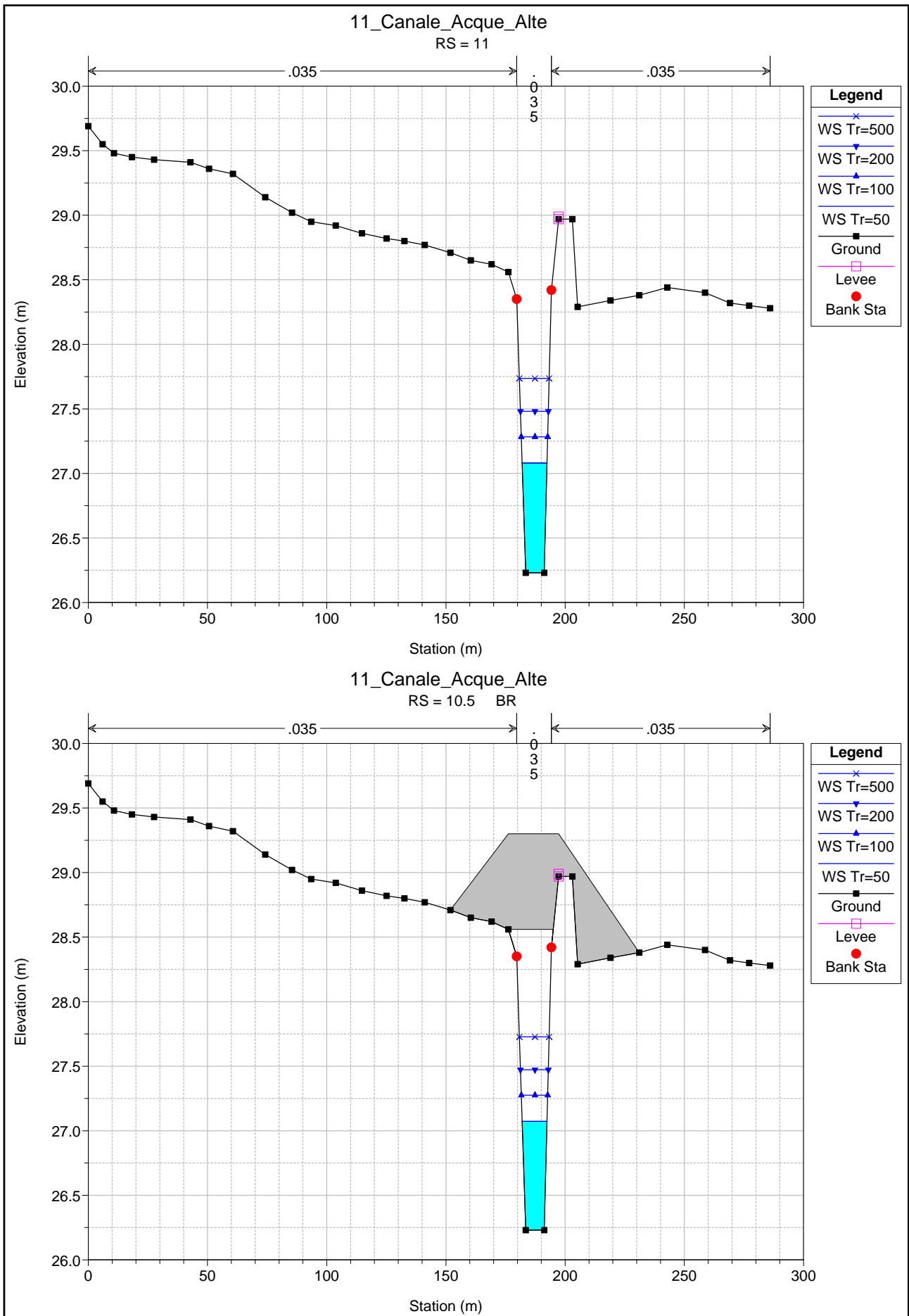
Sezioni fluviali relative ai tempi di ritorno considerati

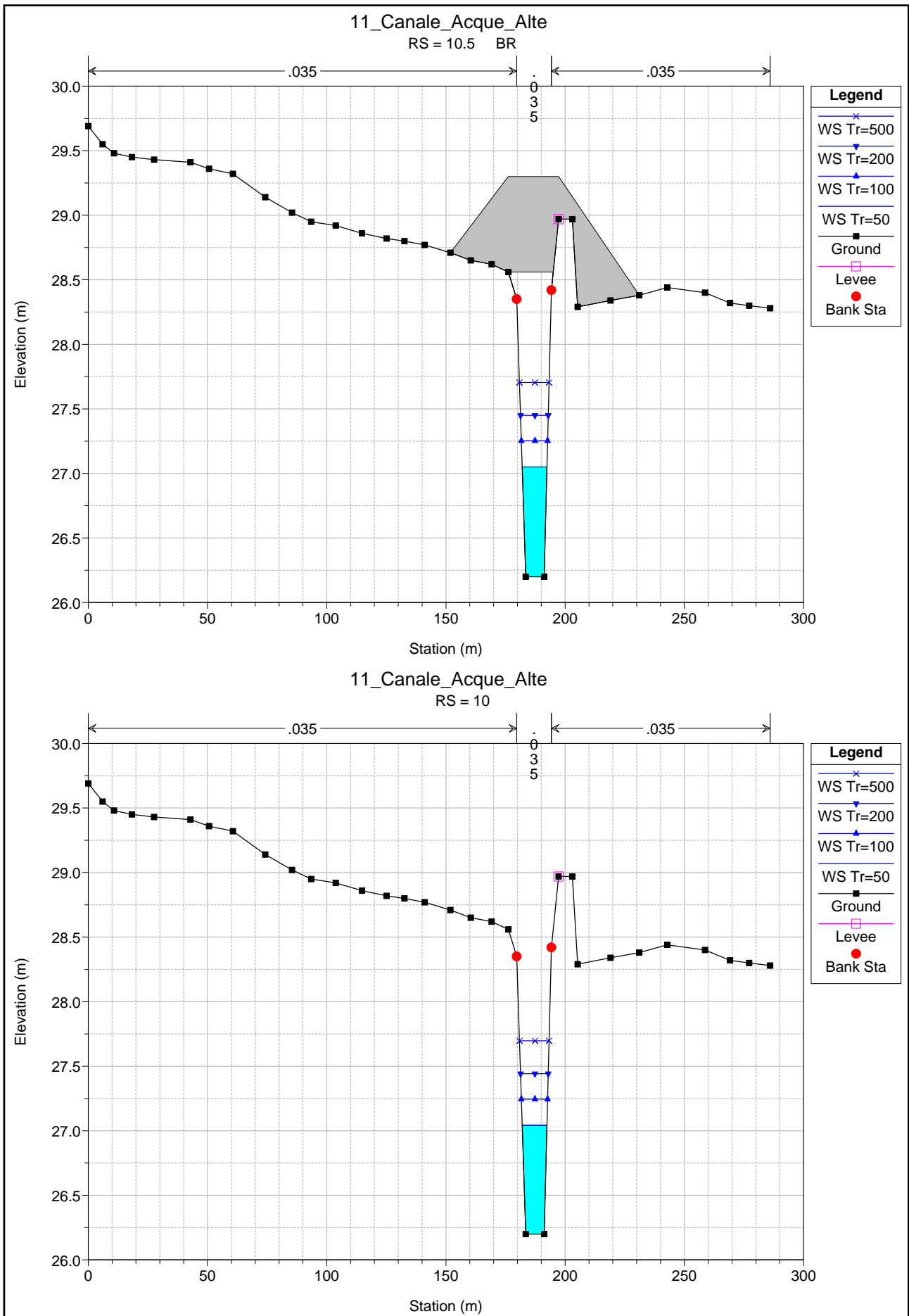


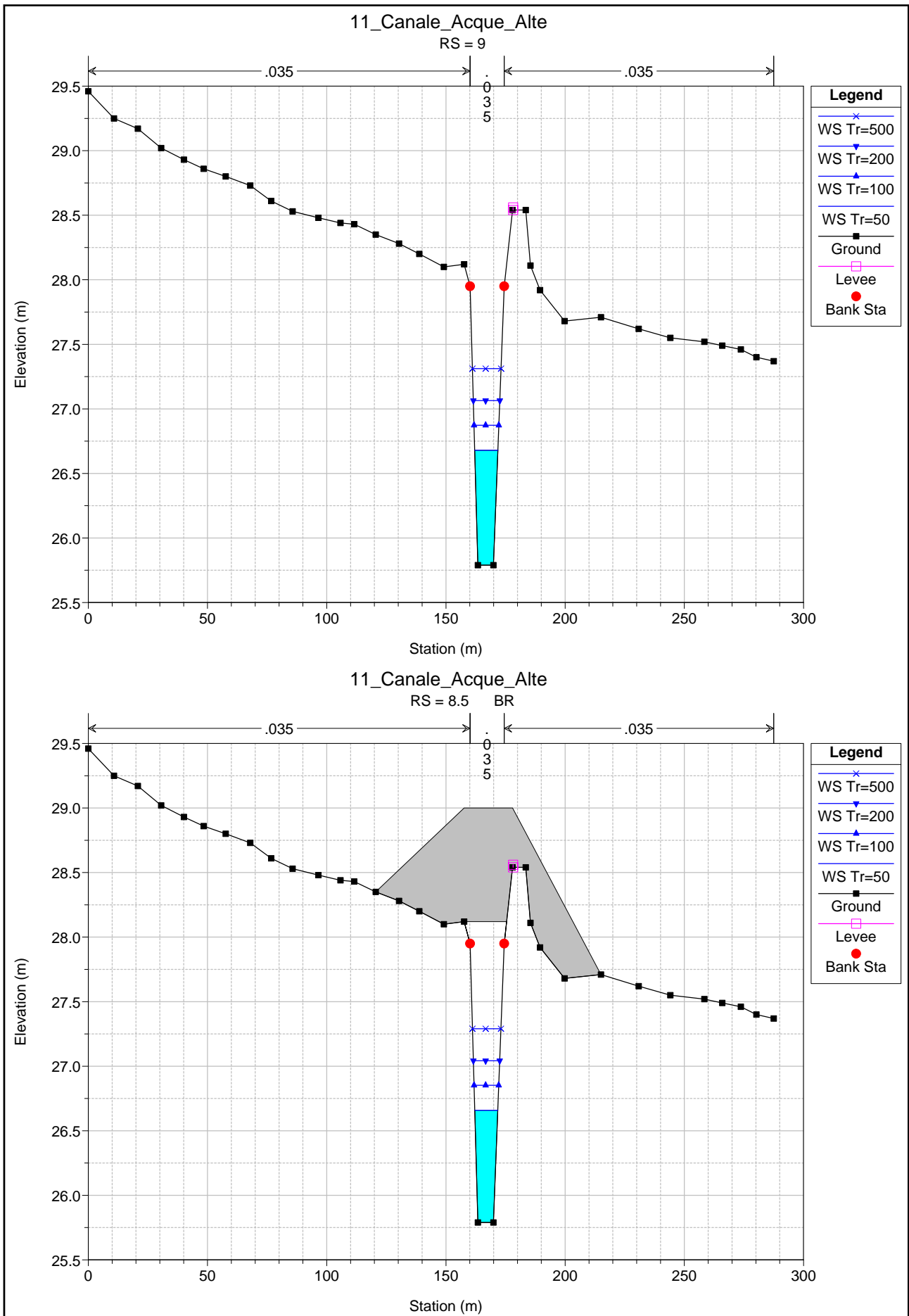


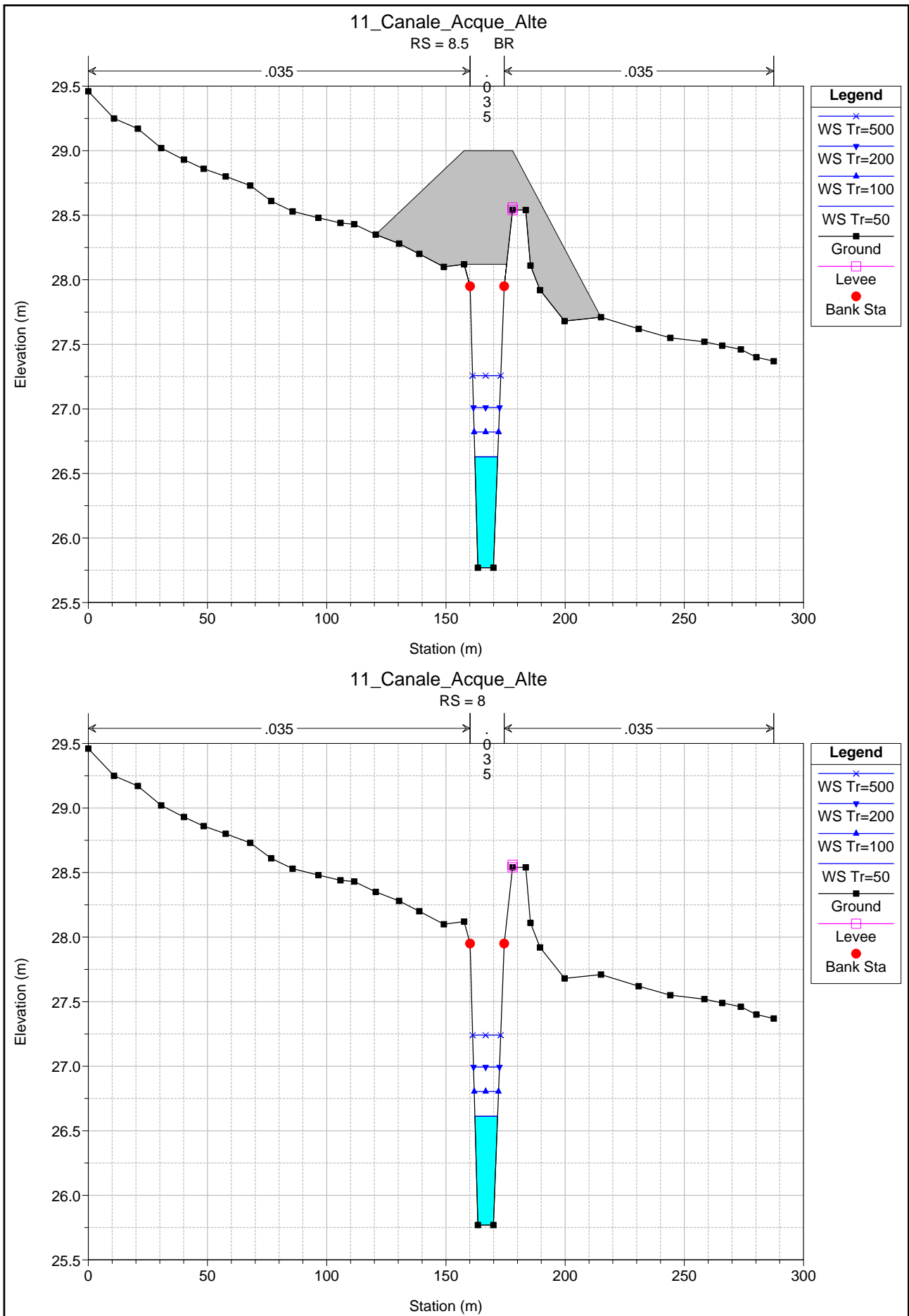


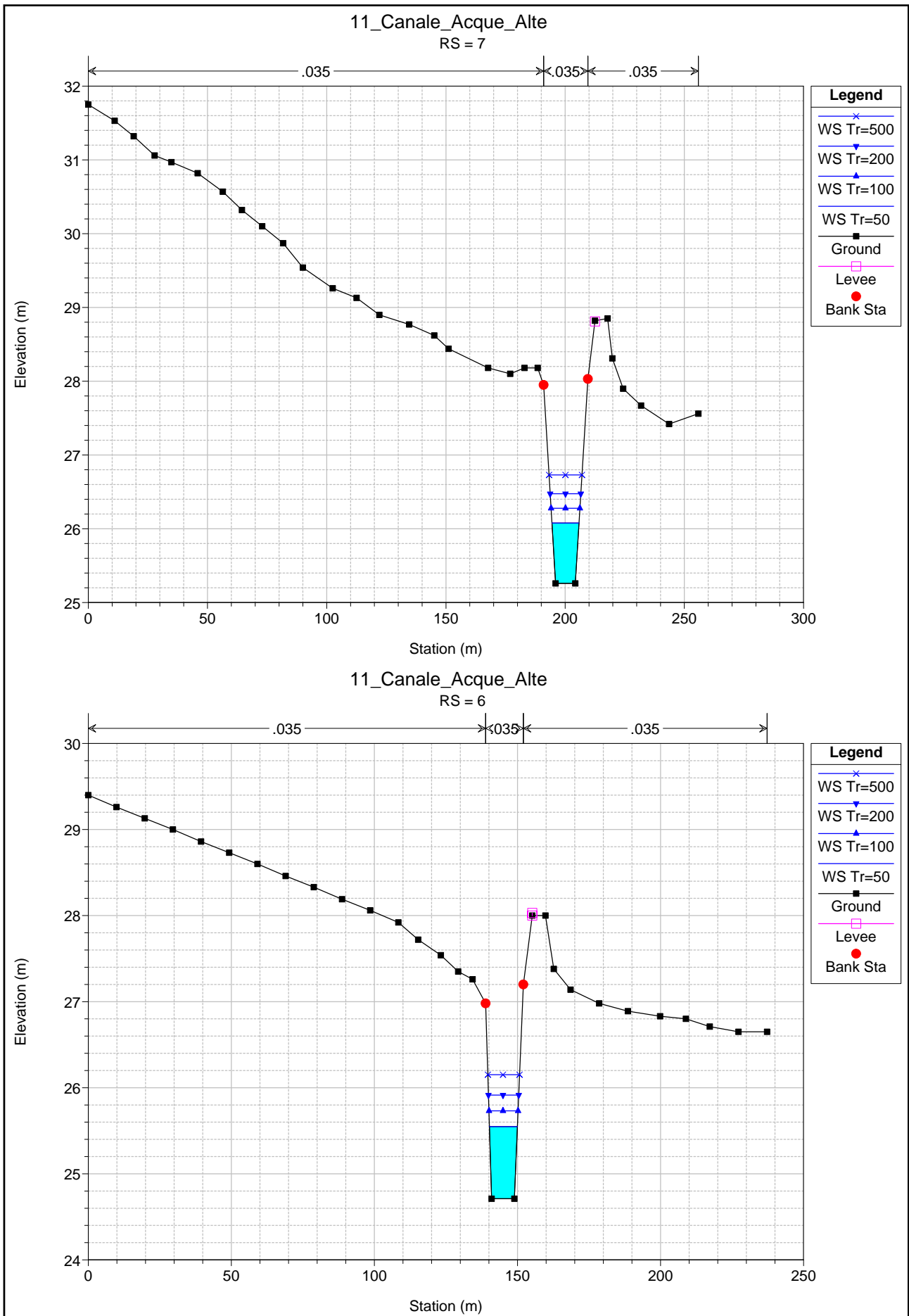


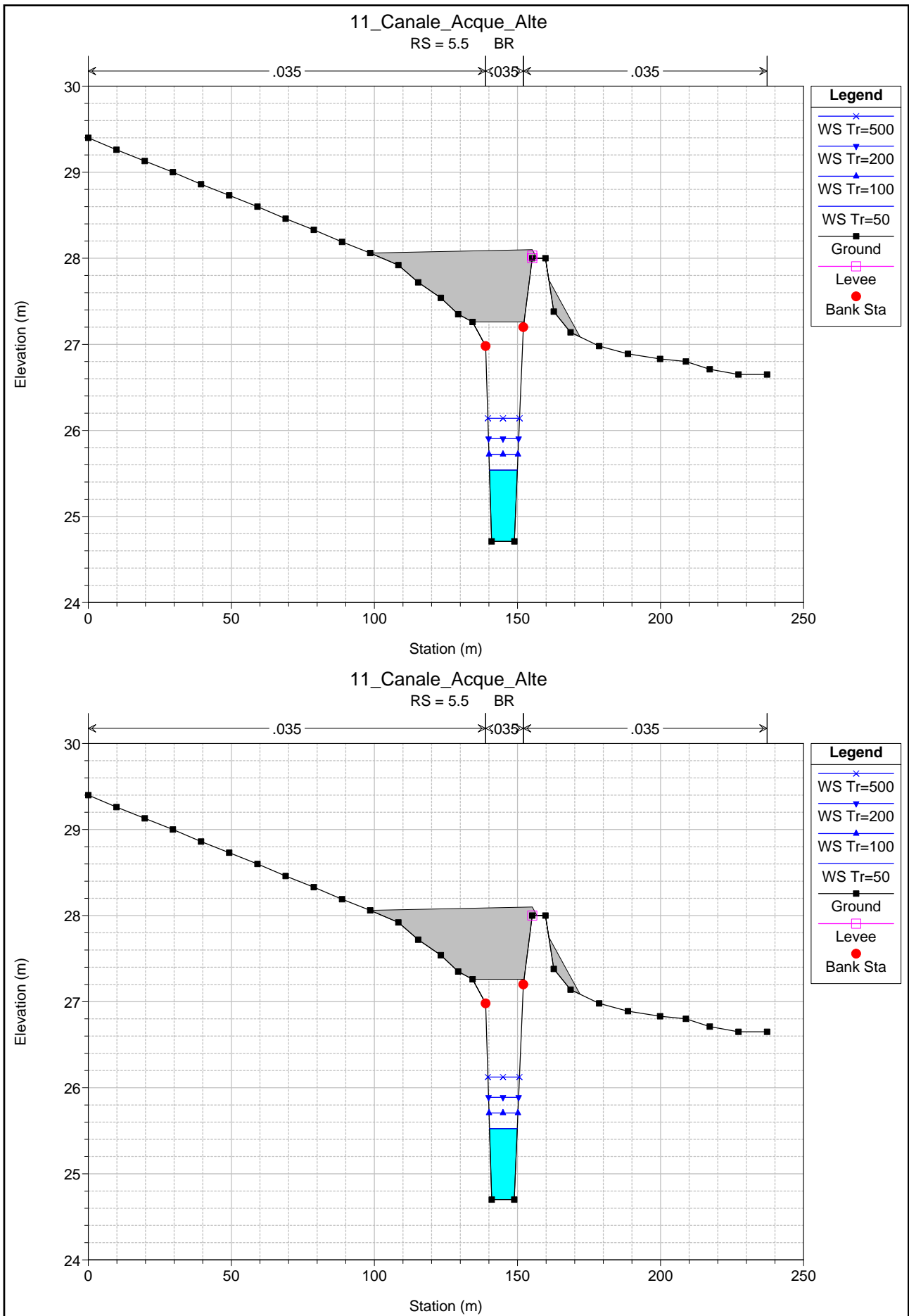


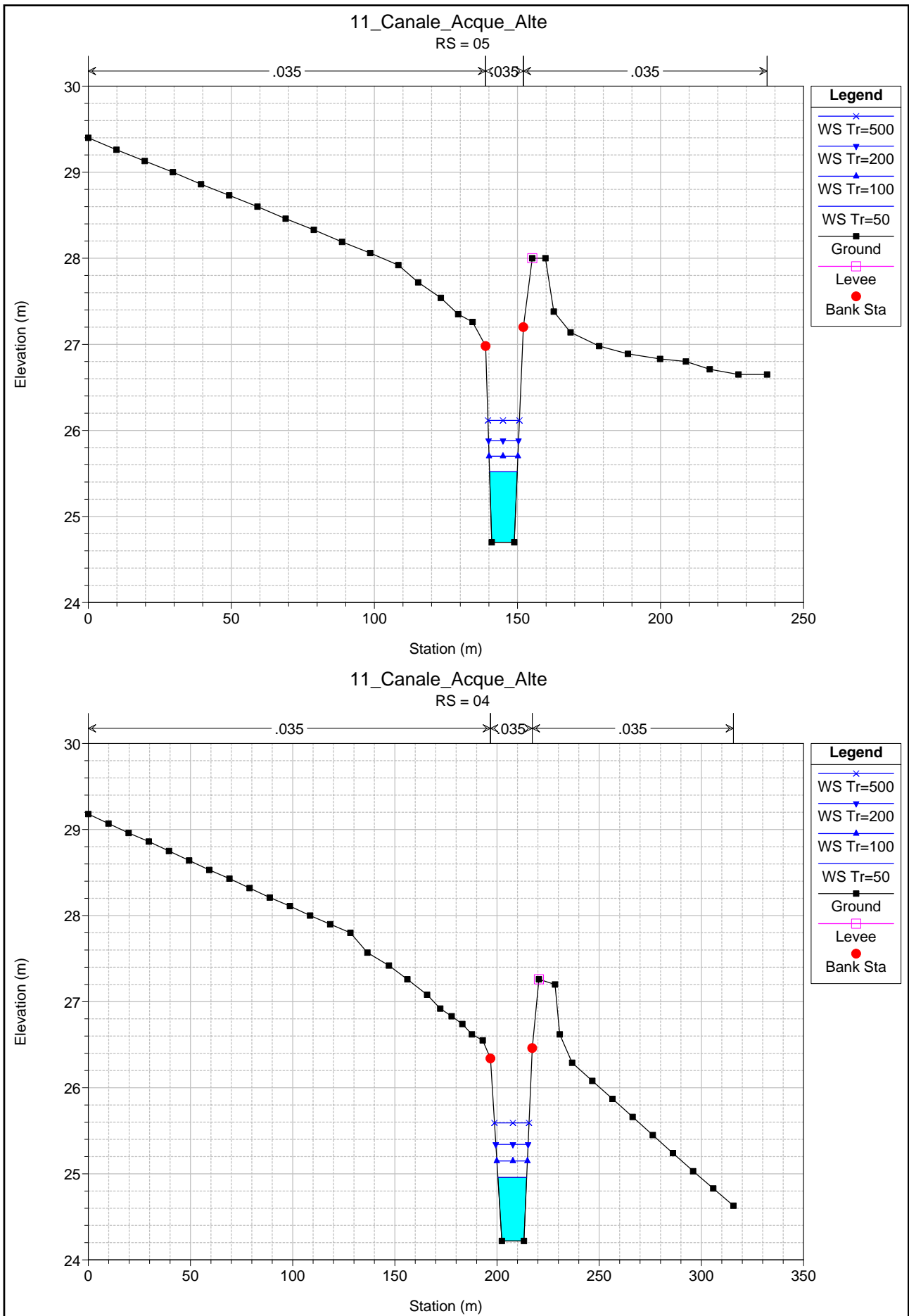


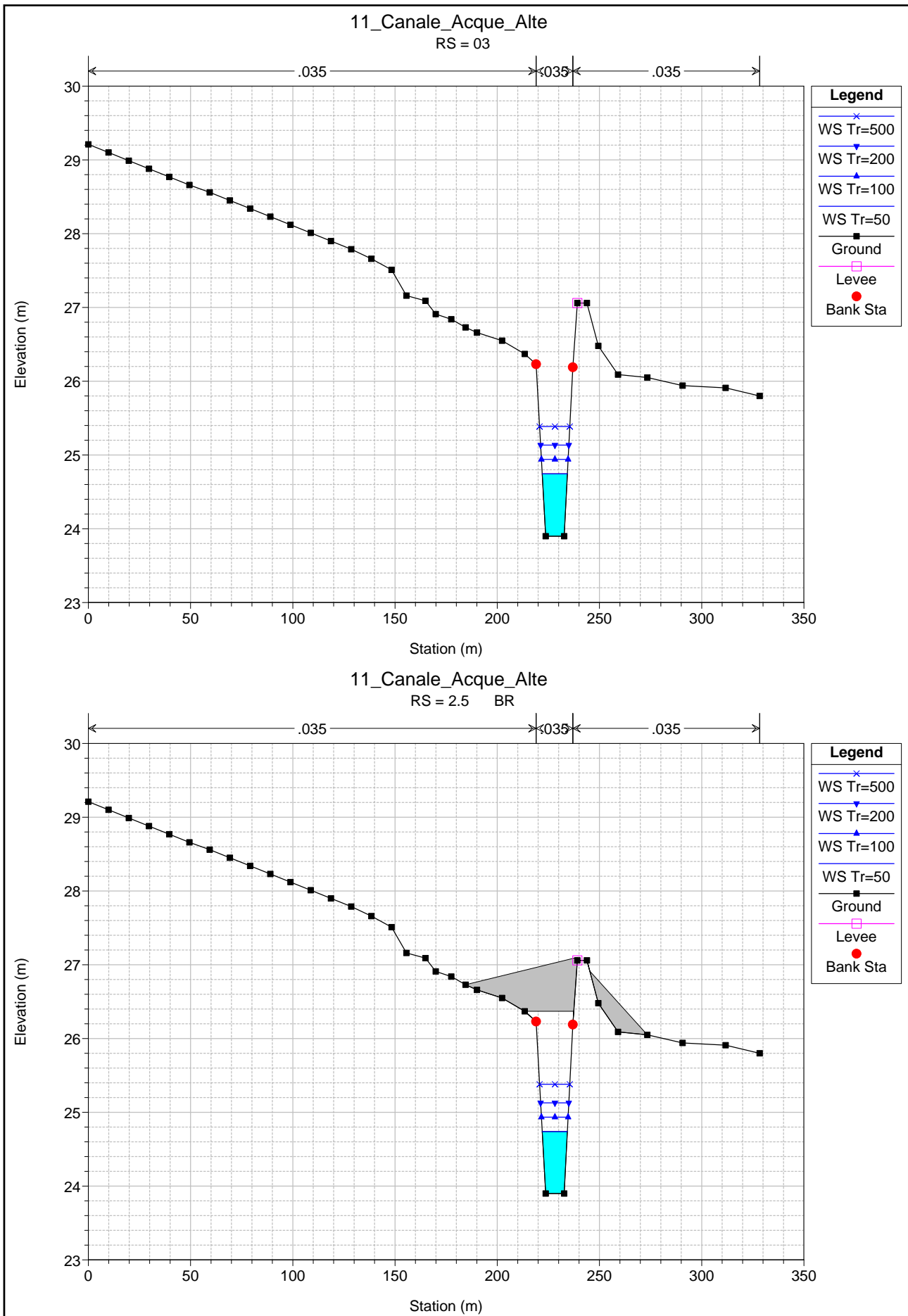


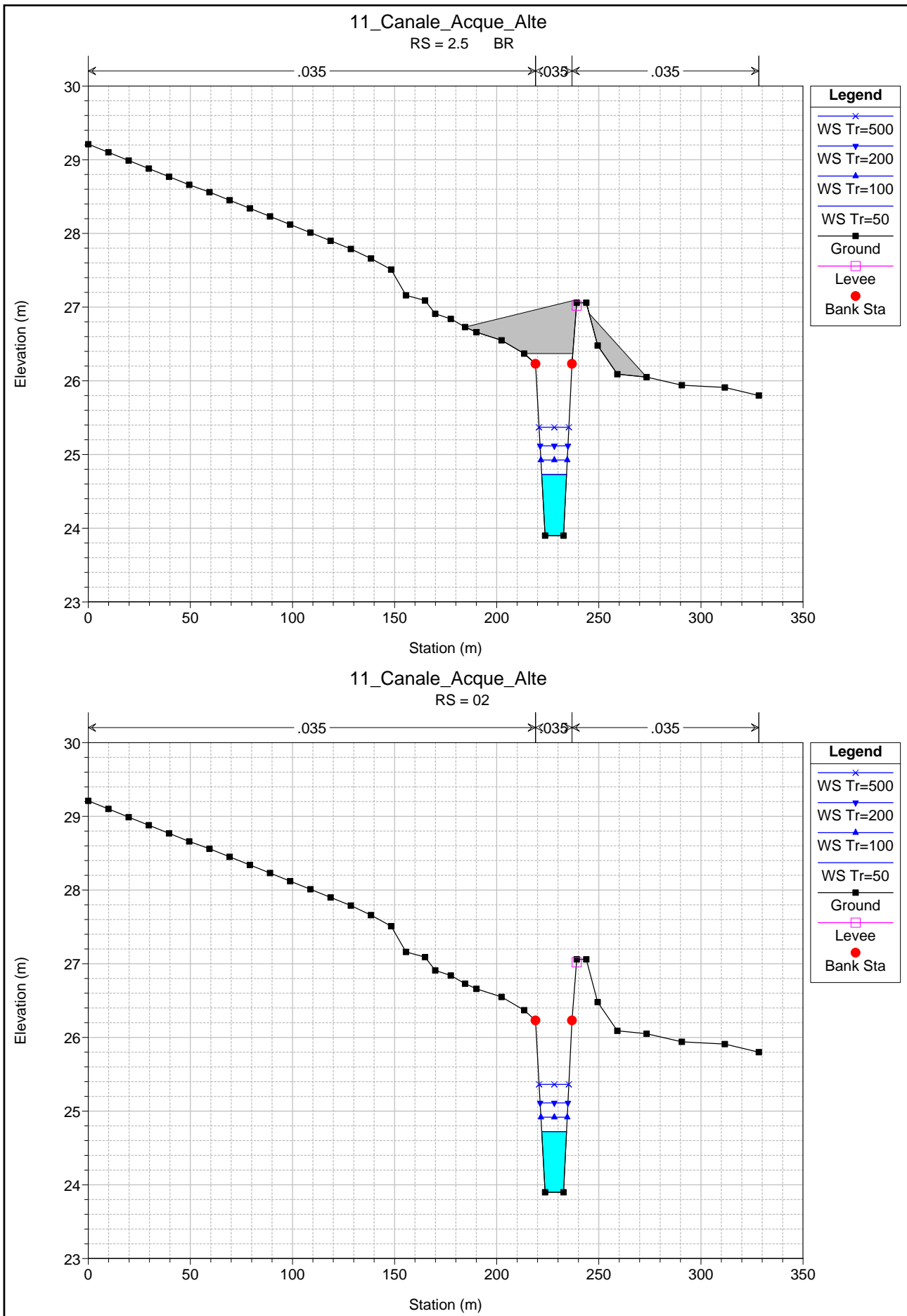




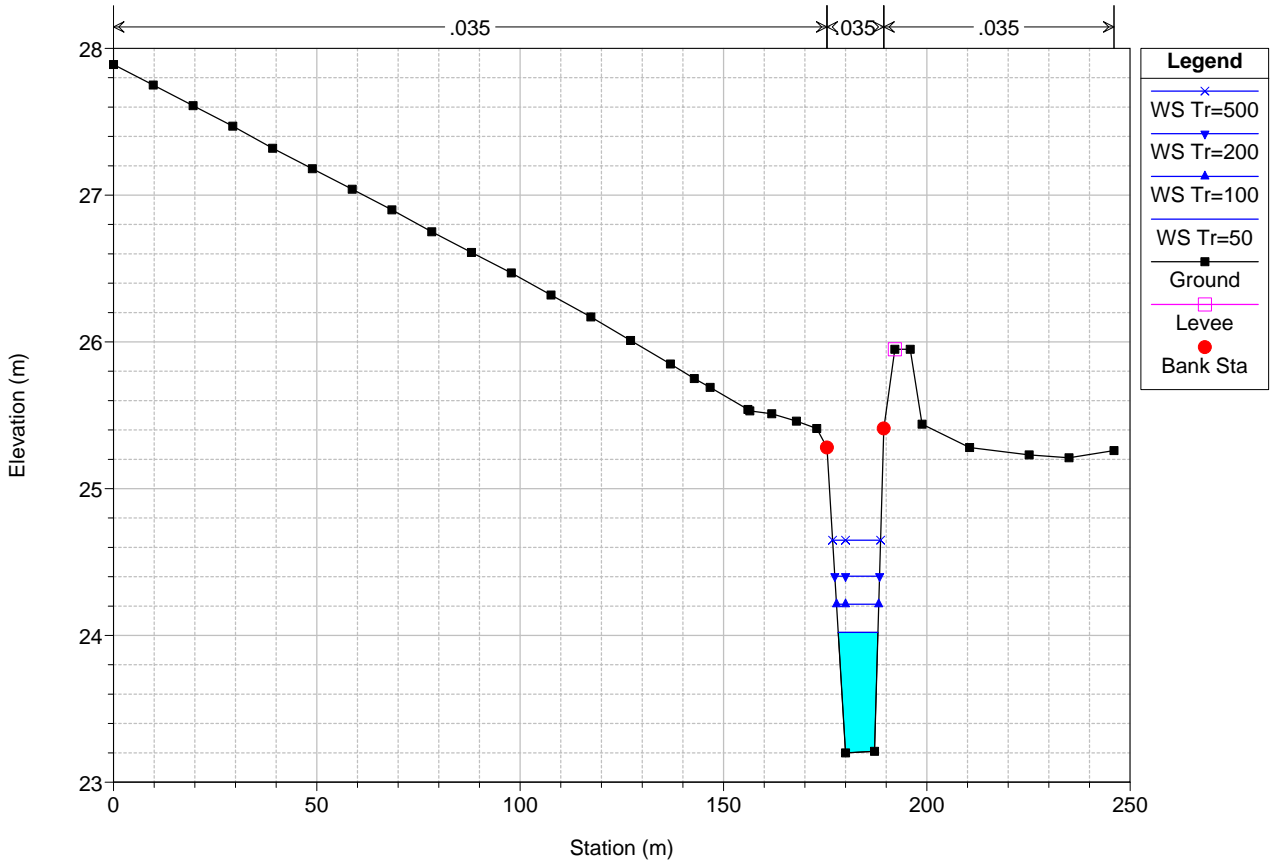






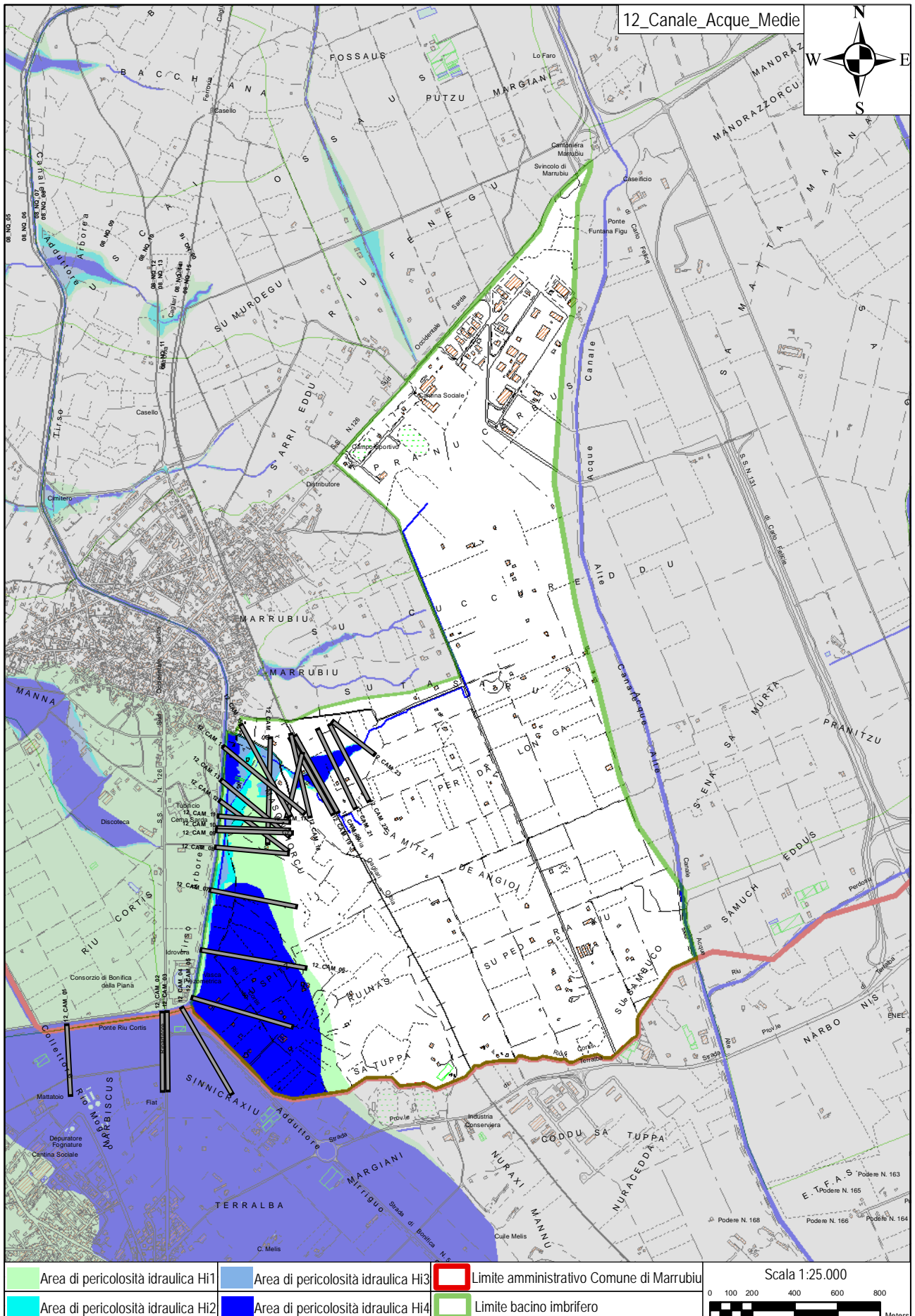


11_Canale_Acque_Alte
RS = 01



5. Canale delle Acque Medie

Inquadramento



Principali grandezze morfometriche

CANALE DELLE ACQUE MEDIE – sub-bacino n. 12			
Superficie del bacino	S	5,06	[km ²]
Altitudine massima	H_{max}	40,6	[m slm]
Altitudine minima	H_{min}	2,7	[m slm]
Altitudine media	H_{med}	14,6	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	37,9	[m]
Pendenza media del bacino	p_m	1,7	[%]
Lunghezza dell'asta principale	L	3,61	[km]
Pendenza dell'asta principale	i	1,7	[%]
Quota della sezione di chiusura	H_{min}	3,0	[m slm]
Curve Number	CN	71,68	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	3,71	[m/s]
Ventura	t_c	2,20	[m/s]
Giandotti	t_c	5,21	[m/s]
Pasini	t_c	2,18	[m/s]
VAPI	t_c	2,17	[m/s]
Viparelli	t_c	1,00	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 23)	5,82	8,49	11,60	16,29	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

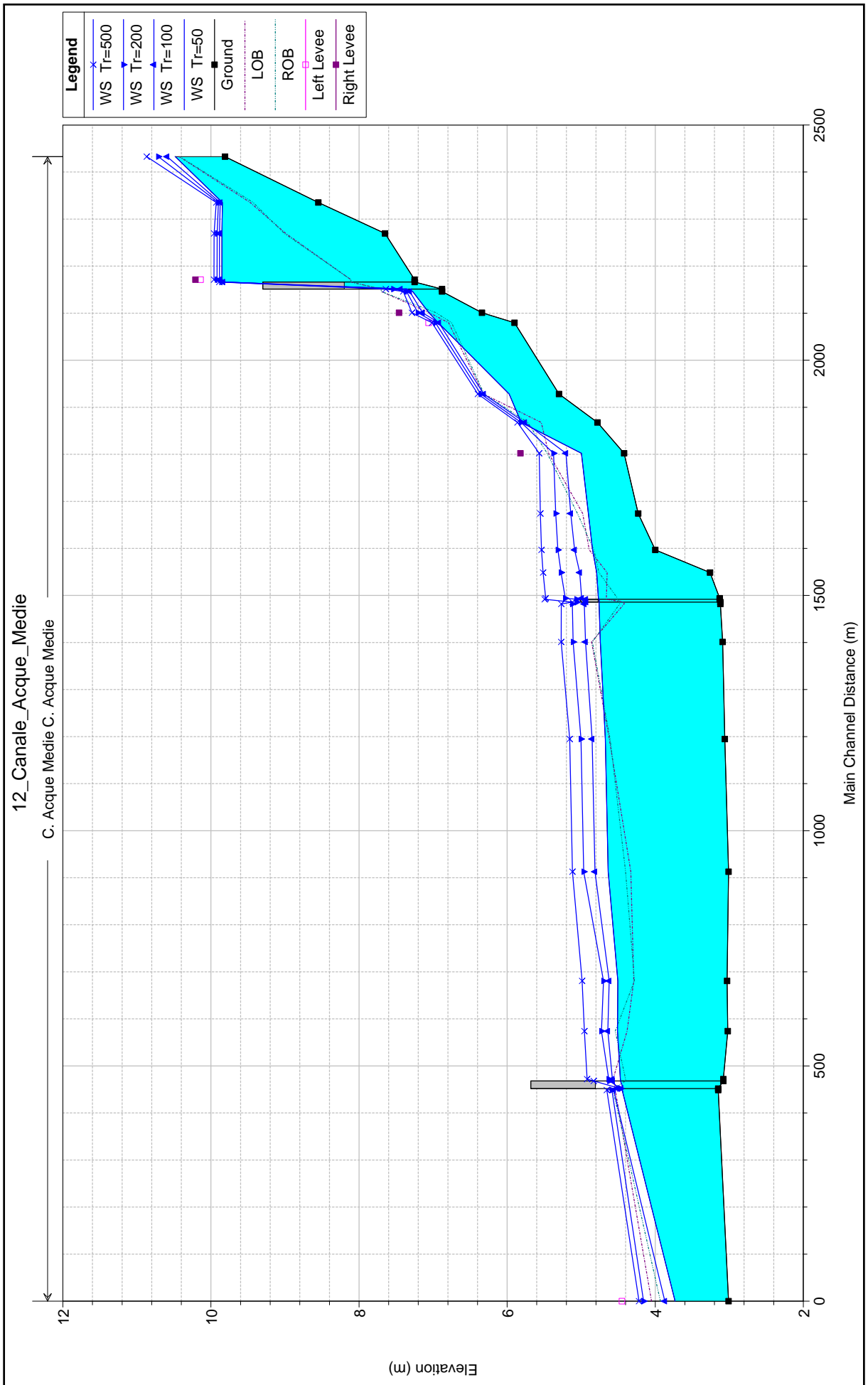
HEC-RAS Plan: 1 River: C. Acque Medie Reach: C. Acque Medie

Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
C. Acque Medie	23	Tr=50	97.52	5.82	9.81	10.48	1.86	3.19	1.11
C. Acque Medie	23	Tr=100	97.52	8.49	9.81	10.59	2.04	4.59	1.11
C. Acque Medie	23	Tr=200	97.52	11.60	9.81	10.71	2.12	6.52	1.08
C. Acque Medie	23	Tr=500	97.52	16.29	9.81	10.87	2.09	10.85	1.05
C. Acque Medie	22	Tr=50	65.78	5.82	8.55	9.85	0.70	12.81	0.31
C. Acque Medie	22	Tr=100	65.78	8.49	8.55	9.87	0.96	13.94	0.42
C. Acque Medie	22	Tr=200	65.78	11.60	8.55	9.90	1.23	14.97	0.52
C. Acque Medie	22	Tr=500	65.78	16.29	8.55	9.93	1.61	16.21	0.66
C. Acque Medie	21	Tr=50	98.28	5.82	7.65	9.85	0.20	49.96	0.05
C. Acque Medie	21	Tr=100	98.28	8.49	7.65	9.89	0.27	52.55	0.07
C. Acque Medie	21	Tr=200	98.28	11.60	7.65	9.92	0.35	54.96	0.09
C. Acque Medie	21	Tr=500	98.28	16.29	7.65	9.96	0.47	58.22	0.12
C. Acque Medie	20	Tr=50	5.00	5.82	7.25	9.85	0.07	143.18	0.01
C. Acque Medie	20	Tr=100	5.00	8.49	7.25	9.89	0.10	147.88	0.02
C. Acque Medie	20	Tr=200	5.00	11.60	7.25	9.92	0.13	152.40	0.03
C. Acque Medie	20	Tr=500	5.00	16.29	7.25	9.96	0.18	158.62	0.04
C. Acque Medie	19.5		Bridge						
C. Acque Medie	19	Tr=50	45.12	5.82	6.88	7.28	3.94	1.84	2.86
C. Acque Medie	19	Tr=100	45.12	8.49	6.88	7.32	4.30	2.43	3.02
C. Acque Medie	19	Tr=200	45.12	11.60	6.88	7.36	4.65	3.25	3.02
C. Acque Medie	19	Tr=500	45.12	16.29	6.88	7.40	4.82	4.18	2.94
C. Acque Medie	18	Tr=50	21.31	5.82	6.34	7.06	1.50	4.12	1.21
C. Acque Medie	18	Tr=100	21.31	8.49	6.34	7.14	1.52	6.81	1.07
C. Acque Medie	18	Tr=200	21.31	11.60	6.34	7.21	1.60	9.67	1.11
C. Acque Medie	18	Tr=500	21.31	16.29	6.34	7.28	1.64	14.40	0.96
C. Acque Medie	17	Tr=50	151.52	5.82	5.90	6.93	1.24	6.75	1.11
C. Acque Medie	17	Tr=100	151.52	8.49	5.90	6.92	1.86	6.33	1.71
C. Acque Medie	17	Tr=200	151.52	11.60	5.90	6.97	2.08	9.14	1.57
C. Acque Medie	17	Tr=500	151.52	16.29	5.90	7.01	2.37	11.98	1.49
C. Acque Medie	16	Tr=50	60.49	5.82	5.30	5.97	2.16	2.70	1.00
C. Acque Medie	16	Tr=100	60.49	8.49	5.30	6.32	1.38	11.24	1.57
C. Acque Medie	16	Tr=200	60.49	11.60	5.30	6.36	1.43	19.74	1.30
C. Acque Medie	16	Tr=500	60.49	16.29	5.30	6.40	1.45	30.80	1.04
C. Acque Medie	15	Tr=50	65.39	5.82	4.78	5.81	1.62	9.15	1.05
C. Acque Medie	15	Tr=100	65.39	8.49	4.78	5.76	3.04	6.44	2.10
C. Acque Medie	15	Tr=200	65.39	11.60	4.78	5.81	3.19	9.29	2.06
C. Acque Medie	15	Tr=500	65.39	16.29	4.78	5.86	3.39	13.33	1.89
C. Acque Medie	14	Tr=50	128.08	5.82	4.42	5.00	3.57	3.78	3.97
C. Acque Medie	14	Tr=100	128.08	8.49	4.42	5.21	0.96	22.31	0.36
C. Acque Medie	14	Tr=200	128.08	11.60	4.42	5.37	0.62	40.19	0.20
C. Acque Medie	14	Tr=500	128.08	16.29	4.42	5.57	0.52	68.50	0.13
C. Acque Medie	13	Tr=50	77.33	5.82	4.23	4.90	0.65	13.48	0.24
C. Acque Medie	13	Tr=100	77.33	8.49	4.23	5.14	0.59	27.82	0.17
C. Acque Medie	13	Tr=200	77.33	11.60	4.23	5.34	0.51	46.21	0.16
C. Acque Medie	13	Tr=500	77.33	16.29	4.23	5.55	0.46	75.02	0.11
C. Acque Medie	12	Tr=50	48.14	5.82	4.00	4.85	0.65	9.49	0.22
C. Acque Medie	12	Tr=100	48.14	8.49	4.00	5.09	0.87	14.39	0.40
C. Acque Medie	12	Tr=200	48.14	11.60	4.00	5.32	0.82	33.78	0.30
C. Acque Medie	12	Tr=500	48.14	16.29	4.00	5.54	0.68	61.78	0.19
C. Acque Medie	11	Tr=50	54.80	5.82	3.26	4.79	0.98	5.99	0.33
C. Acque Medie	11	Tr=100	54.80	8.49	3.26	5.02	1.12	8.84	0.69
C. Acque Medie	11	Tr=200	54.80	11.60	3.26	5.27	0.99	24.64	0.53
C. Acque Medie	11	Tr=500	54.80	16.29	3.26	5.51	0.84	49.92	0.31

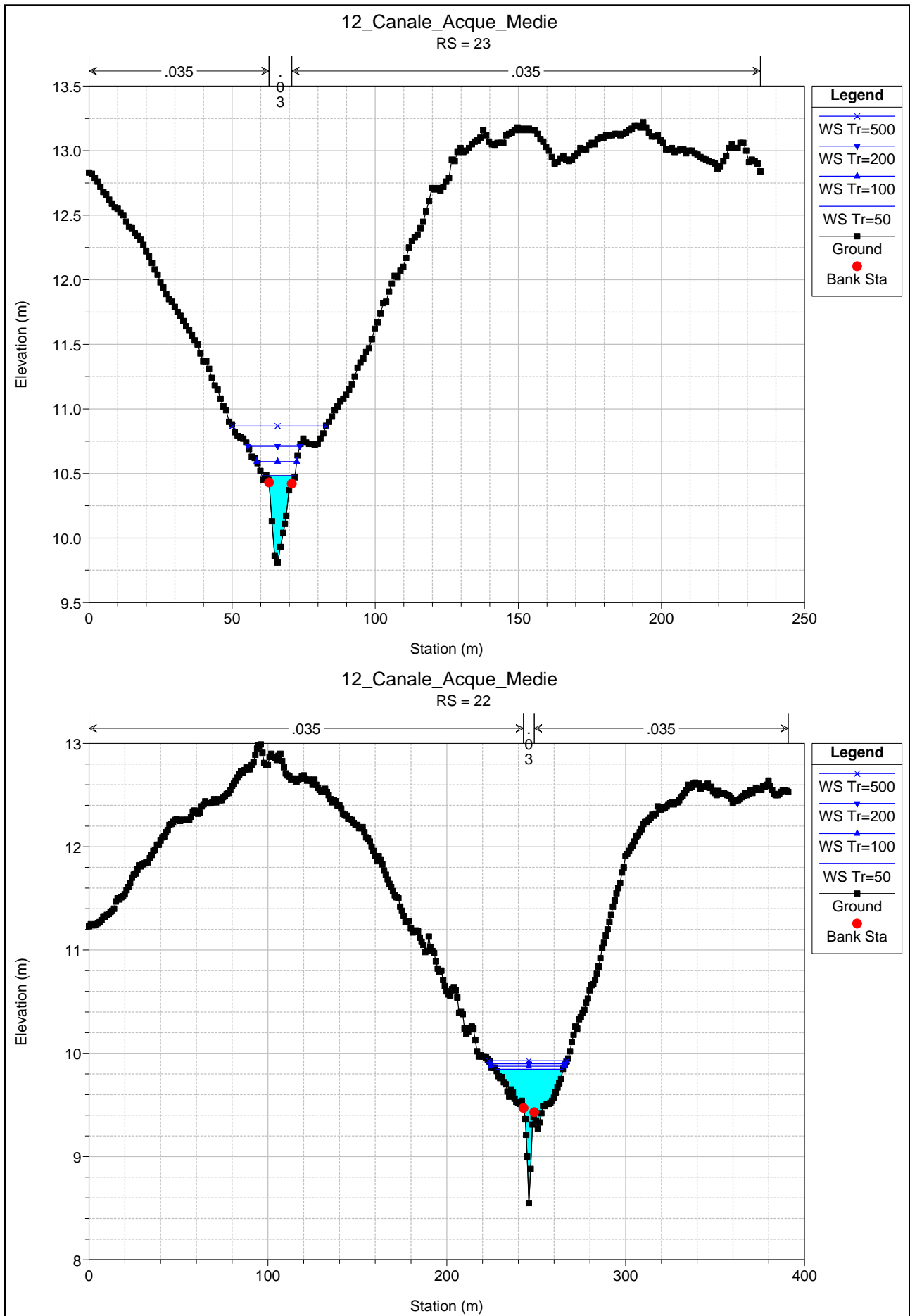
HEC-RAS Plan: 1 River: C. Acque Medie Reach: C. Acque Medie (Continued)

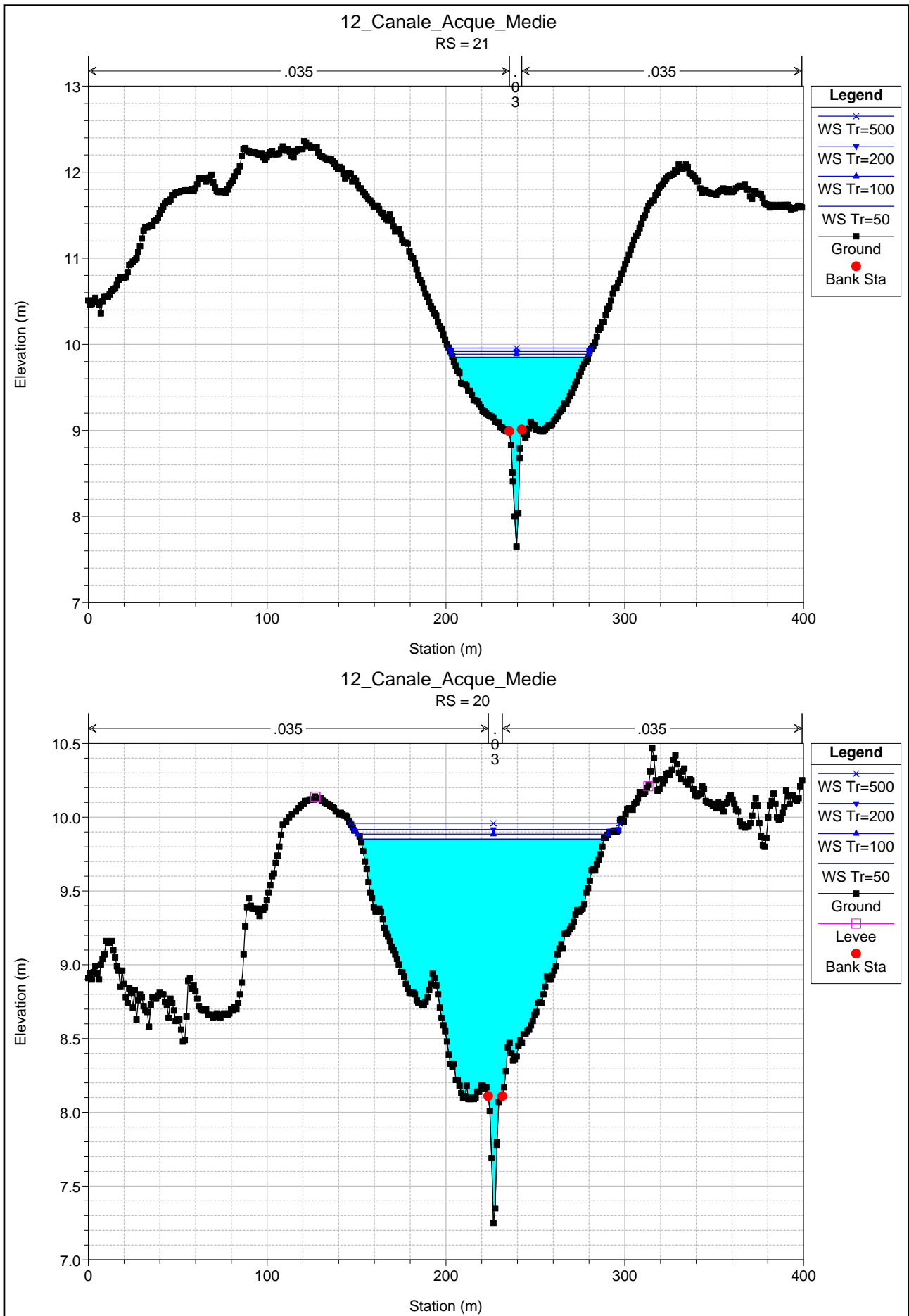
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
C. Acque Medie	10	Tr=50	2.00	5.82	3.13	4.77	0.96	6.17	0.32
C. Acque Medie	10	Tr=100	2.00	8.49	3.13	4.99	1.13	7.90	0.37
C. Acque Medie	10	Tr=200	2.00	11.60	3.13	5.22	1.24	13.69	0.76
C. Acque Medie	10	Tr=500	2.00	16.29	3.13	5.48	1.09	35.91	0.49
C. Acque Medie	9.5		Bridge						
C. Acque Medie	09	Tr=50	80.69	5.82	3.12	4.76	0.90	6.66	0.30
C. Acque Medie	09	Tr=100	80.69	8.49	3.12	4.96	1.10	8.27	0.36
C. Acque Medie	09	Tr=200	80.69	11.60	3.12	5.12	1.31	10.01	0.48
C. Acque Medie	09	Tr=500	80.69	16.29	3.12	5.27	1.61	14.64	0.90
C. Acque Medie	08	Tr=50	206.32	5.82	3.09	4.74	0.76	7.70	0.27
C. Acque Medie	08	Tr=100	206.32	8.49	3.09	4.94	0.91	10.03	0.38
C. Acque Medie	08	Tr=200	206.32	11.60	3.09	5.11	1.05	14.02	0.49
C. Acque Medie	08	Tr=500	206.32	16.29	3.09	5.27	1.21	22.19	0.68
C. Acque Medie	07	Tr=50	282.13	5.82	3.06	4.67	0.85	6.86	0.27
C. Acque Medie	07	Tr=100	282.13	8.49	3.06	4.85	1.05	8.23	0.34
C. Acque Medie	07	Tr=200	282.13	11.60	3.06	5.00	1.23	12.68	0.75
C. Acque Medie	07	Tr=500	282.13	16.29	3.06	5.15	1.39	23.13	0.87
C. Acque Medie	06	Tr=50	232.21	5.82	3.01	4.64	0.57	14.00	0.20
C. Acque Medie	06	Tr=100	232.21	8.49	3.01	4.81	0.68	19.21	0.27
C. Acque Medie	06	Tr=200	232.21	11.60	3.01	4.97	0.78	28.86	0.38
C. Acque Medie	06	Tr=500	232.21	16.29	3.01	5.12	0.85	51.84	0.40
C. Acque Medie	05	Tr=50	106.55	5.82	3.03	4.51	1.23	4.84	0.45
C. Acque Medie	05	Tr=100	106.55	8.49	3.03	4.62	1.58	6.05	0.85
C. Acque Medie	05	Tr=200	106.55	11.60	3.03	4.70	1.95	7.90	1.22
C. Acque Medie	05	Tr=500	106.55	16.29	3.03	4.99	1.50	26.60	0.71
C. Acque Medie	04	Tr=50	102.10	5.82	3.02	4.51	0.64	12.29	0.23
C. Acque Medie	04	Tr=100	102.10	8.49	3.02	4.64	0.80	15.07	0.28
C. Acque Medie	04	Tr=200	102.10	11.60	3.02	4.73	1.02	17.22	0.35
C. Acque Medie	04	Tr=500	102.10	16.29	3.02	4.96	1.11	25.35	0.46
C. Acque Medie	03	Tr=50	4.00	5.82	3.08	4.47	0.77	7.66	0.31
C. Acque Medie	03	Tr=100	4.00	8.49	3.08	4.58	0.99	9.24	0.44
C. Acque Medie	03	Tr=200	4.00	11.60	3.08	4.63	1.28	10.24	0.60
C. Acque Medie	03	Tr=500	4.00	16.29	3.08	4.92	1.09	34.60	0.60
C. Acque Medie	2.5		Bridge						
C. Acque Medie	02	Tr=50	448.69	5.82	3.15	4.45	0.89	12.44	0.71
C. Acque Medie	02	Tr=100	448.69	8.49	3.15	4.56	0.84	24.37	0.50
C. Acque Medie	02	Tr=200	448.69	11.60	3.15	4.58	1.06	27.41	0.62
C. Acque Medie	02	Tr=500	448.69	16.29	3.15	4.65	1.17	38.33	0.56
C. Acque Medie	01	Tr=50		5.82	3.01	3.73	2.07	2.81	1.00
C. Acque Medie	01	Tr=100		8.49	3.01	3.87	2.26	3.76	1.00
C. Acque Medie	01	Tr=200		11.60	3.01	4.16	1.43	19.56	1.11
C. Acque Medie	01	Tr=500		16.29	3.01	4.22	1.52	30.94	0.98

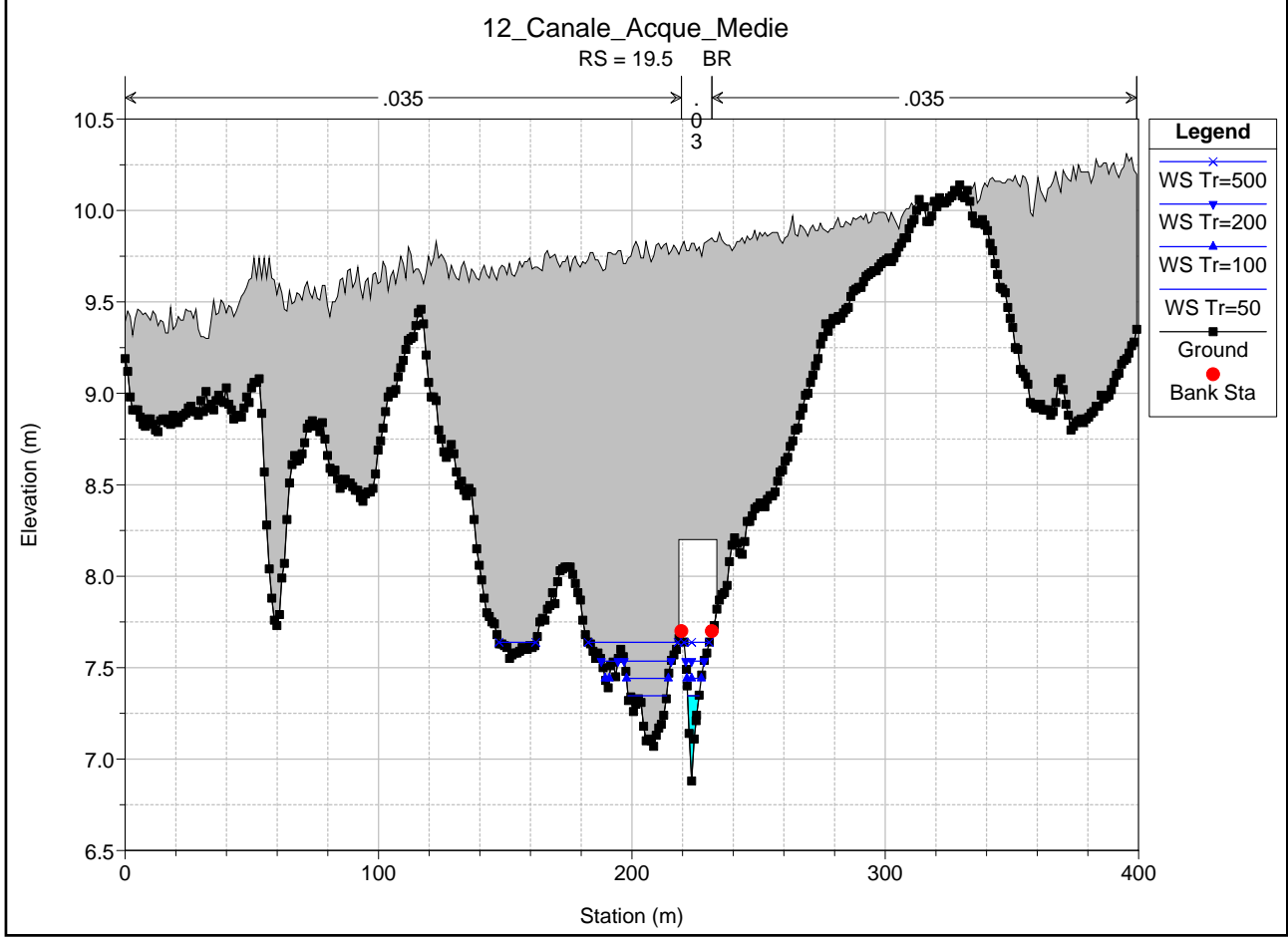
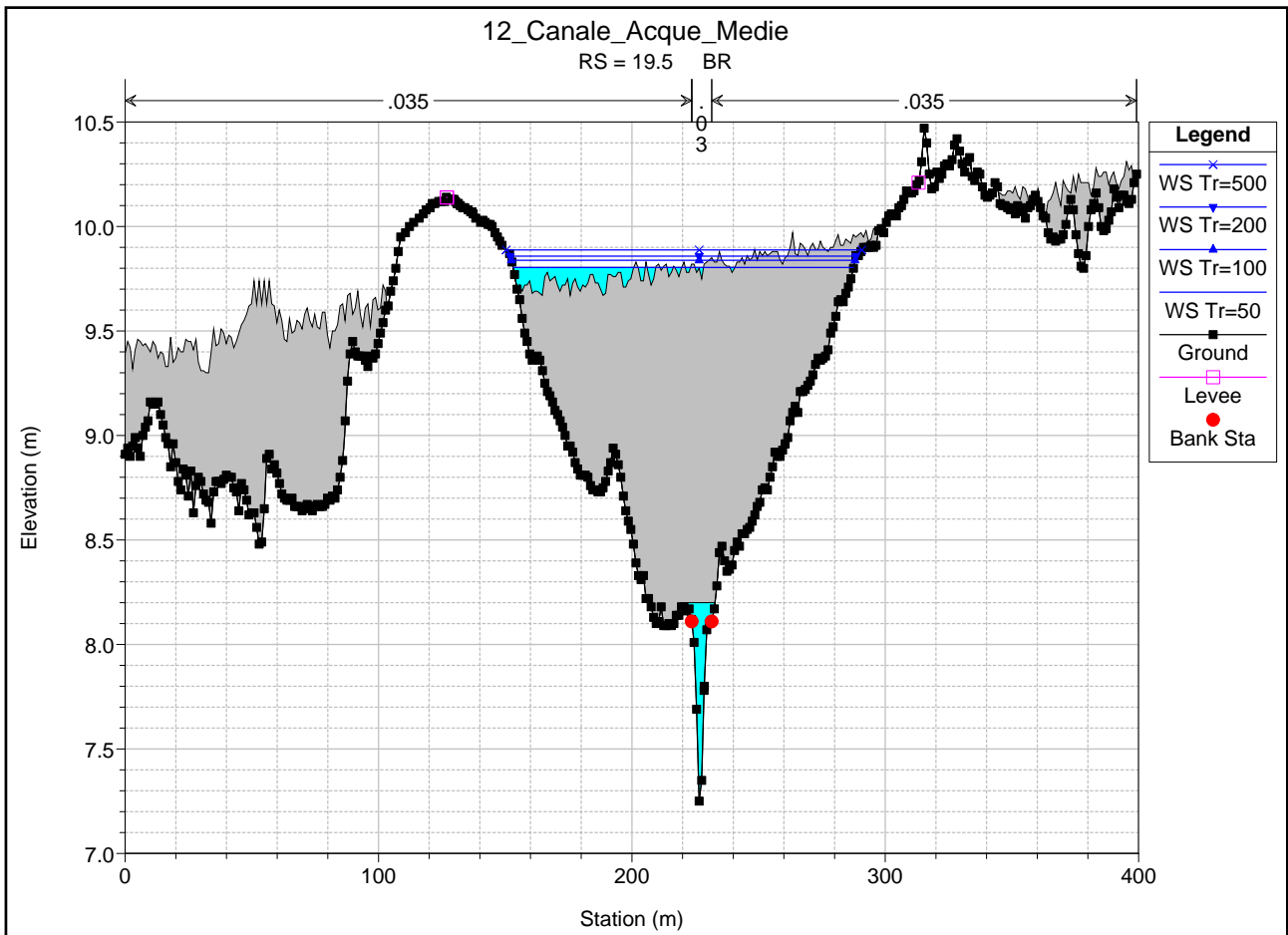
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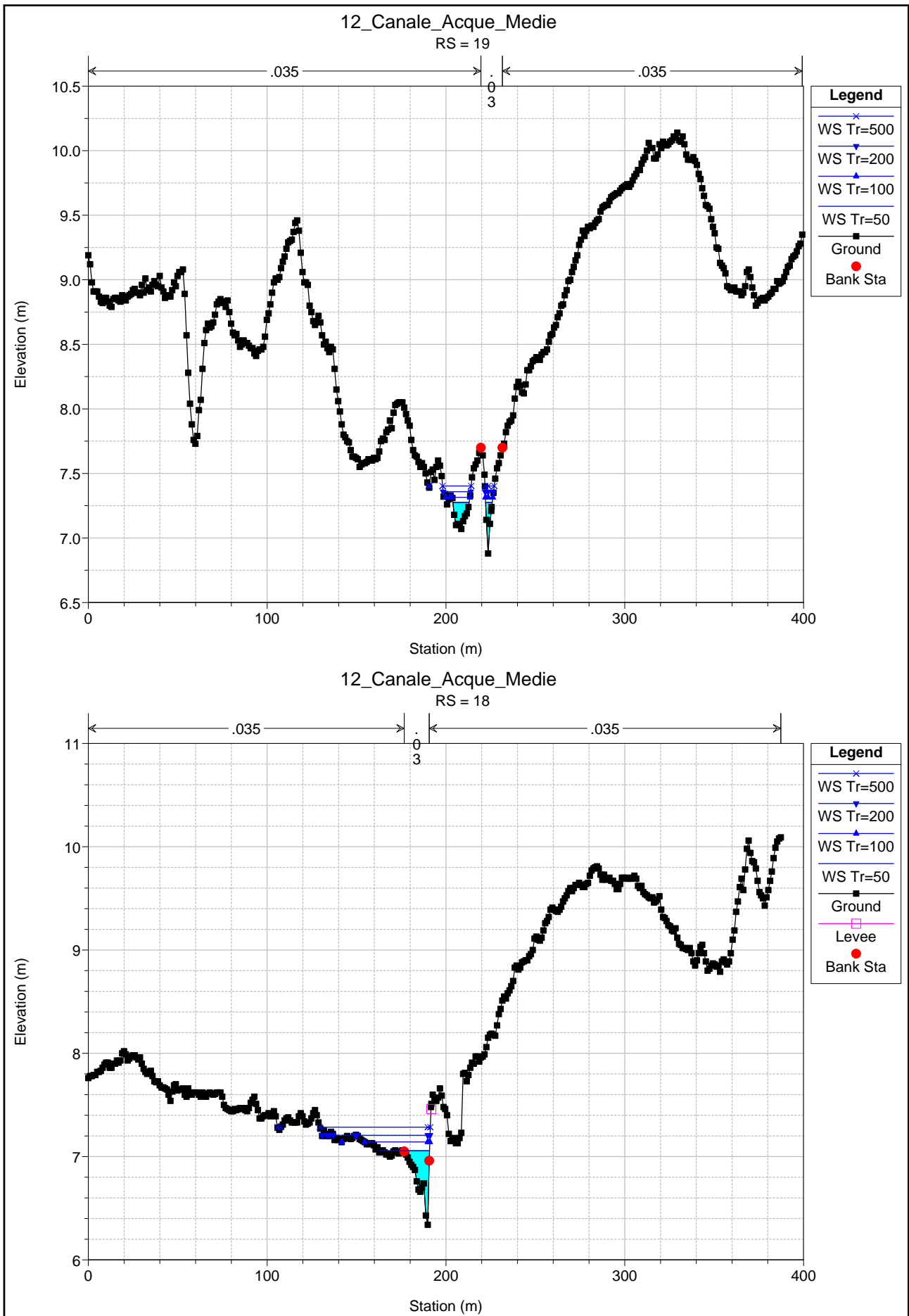


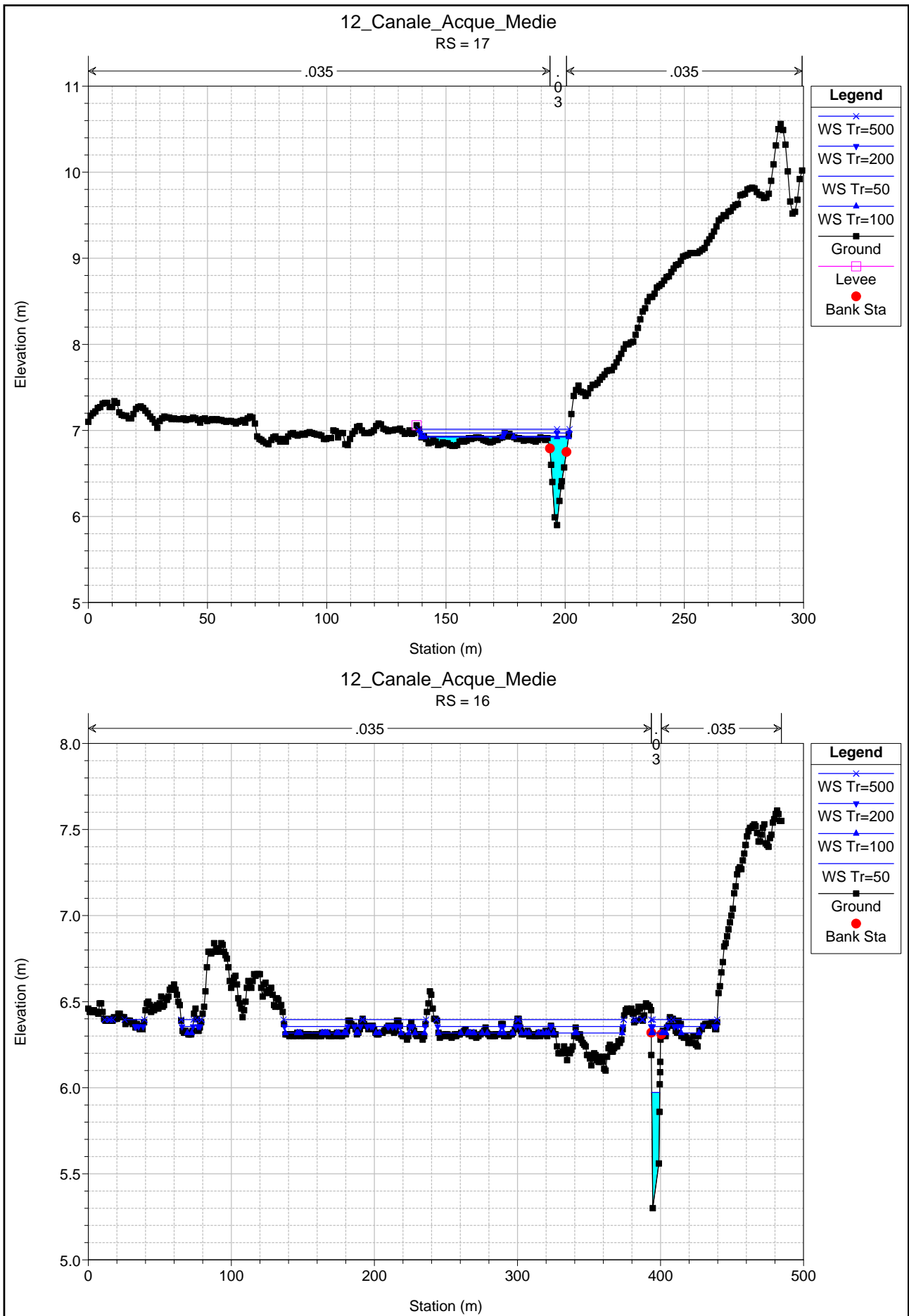
Sezioni fluviali relative ai tempi di ritorno considerati

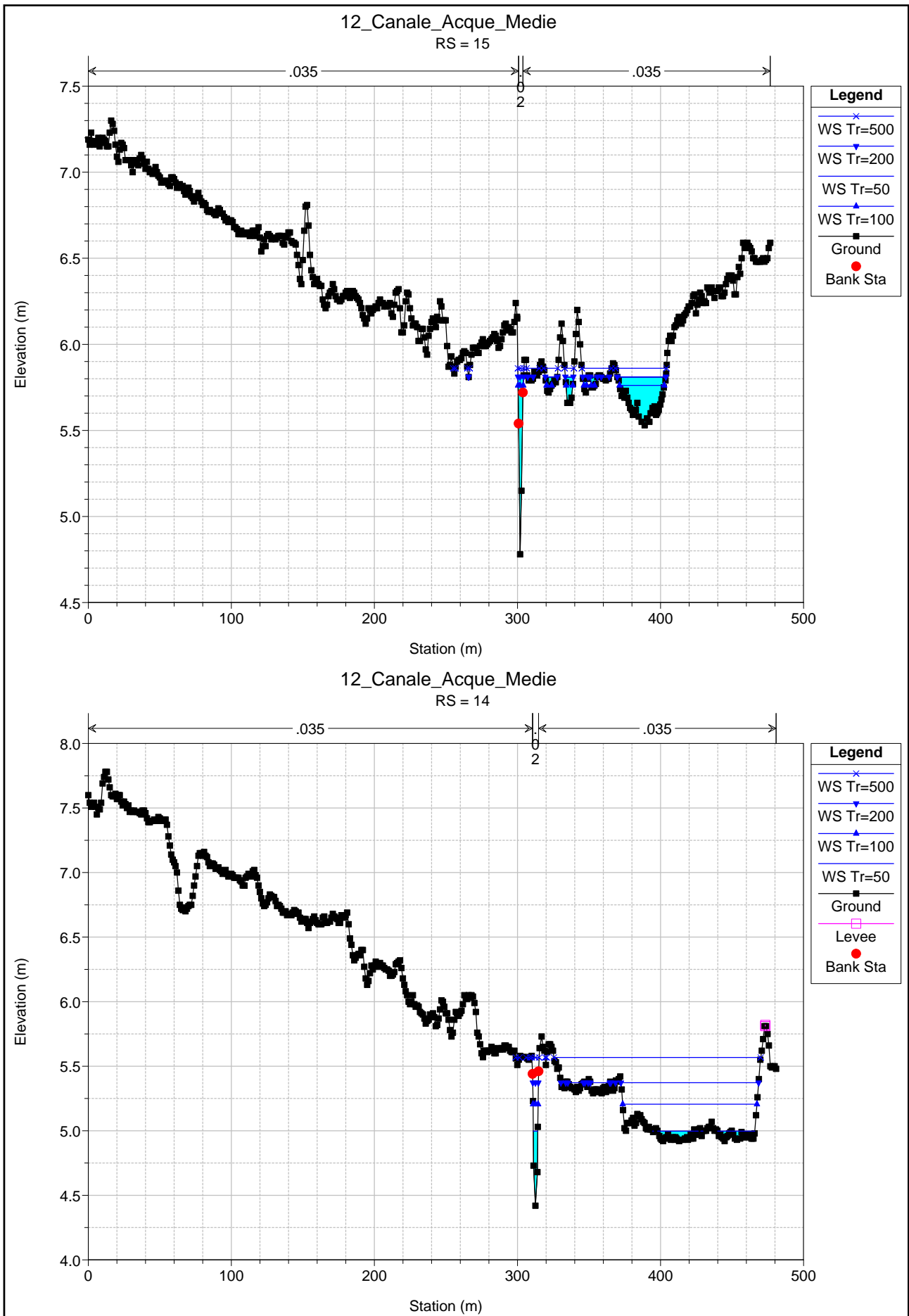




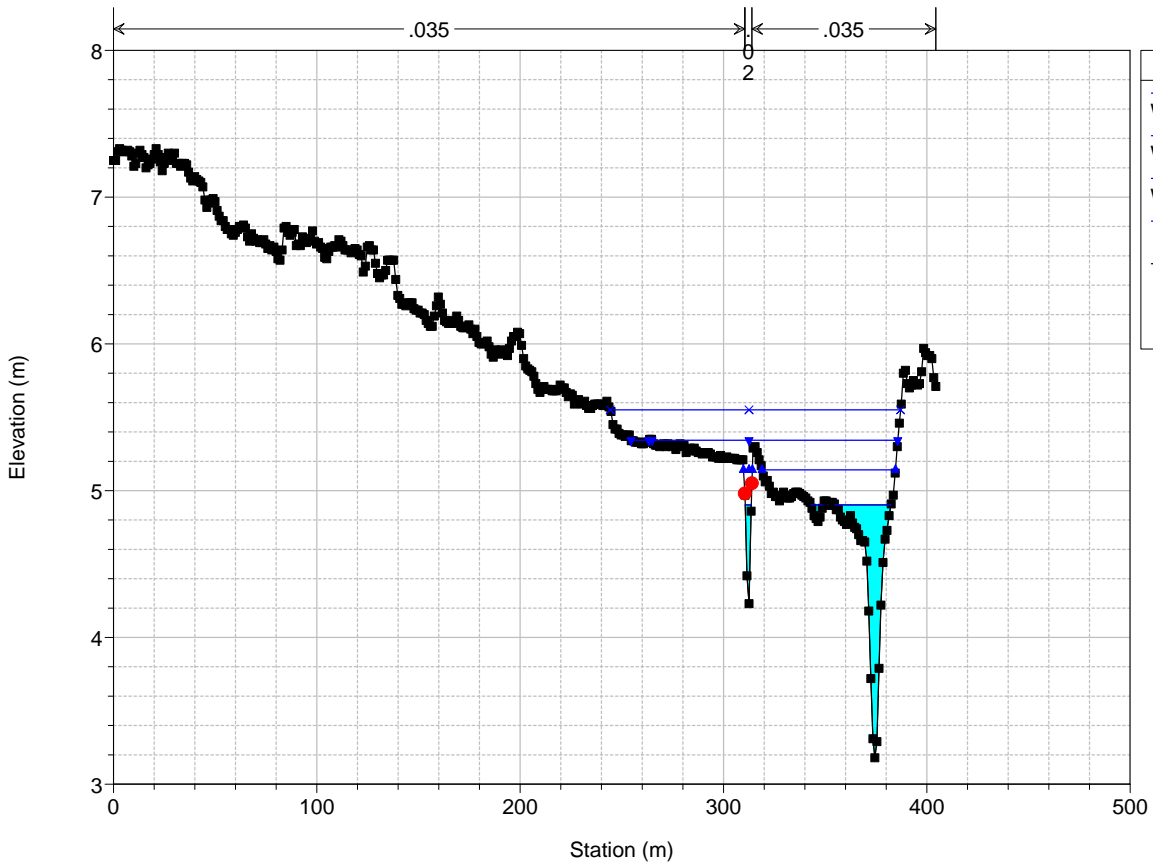






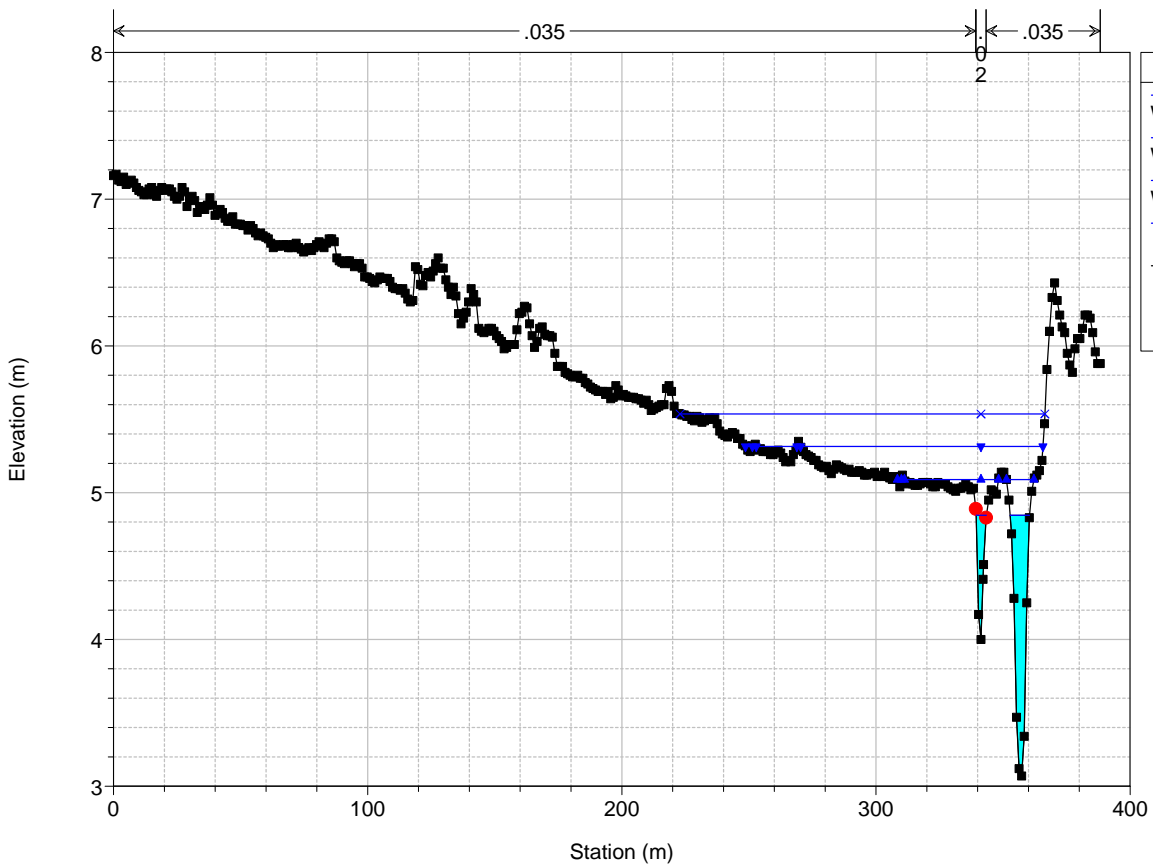


12_Canale_Acque_Medie
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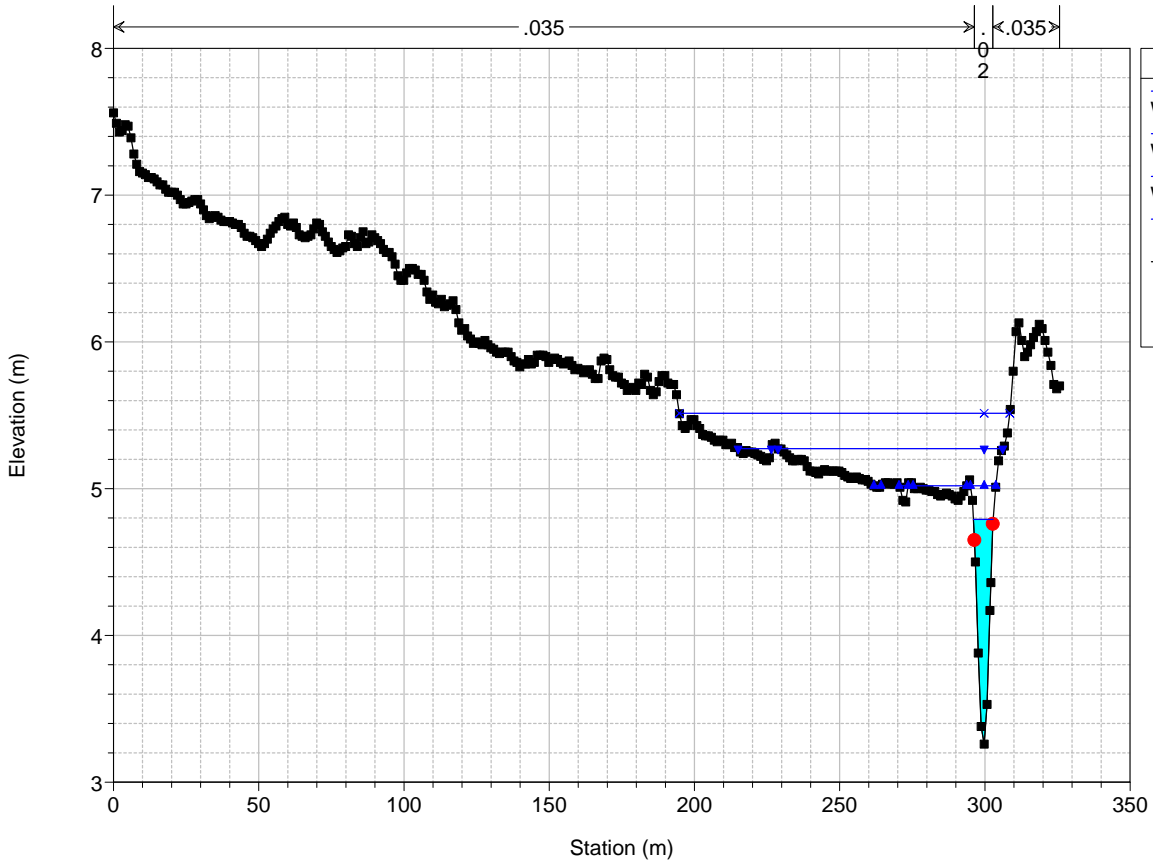
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 - WS Tr=50
 - Ground
 - Bank Sta

12_Canale_Acque_Medie
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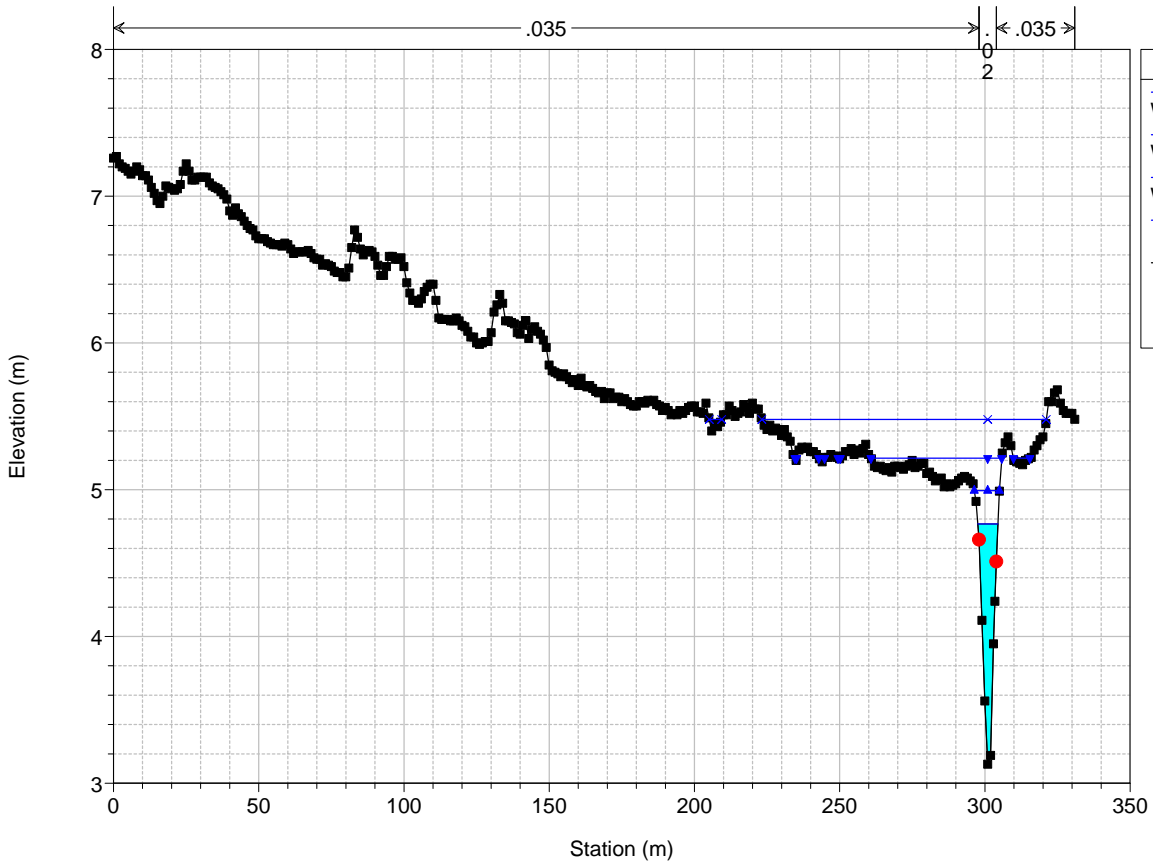
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 - Bank Sta

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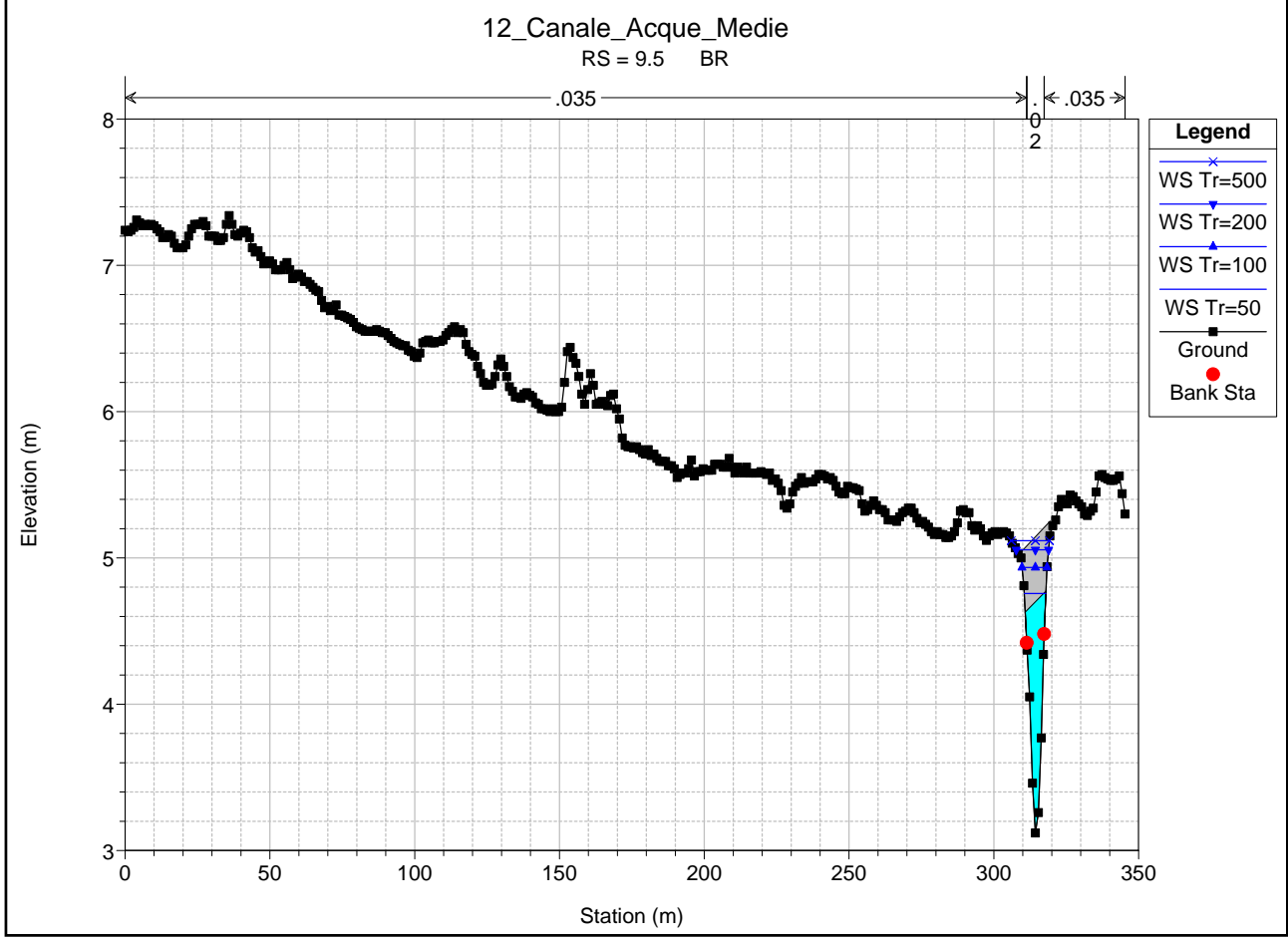
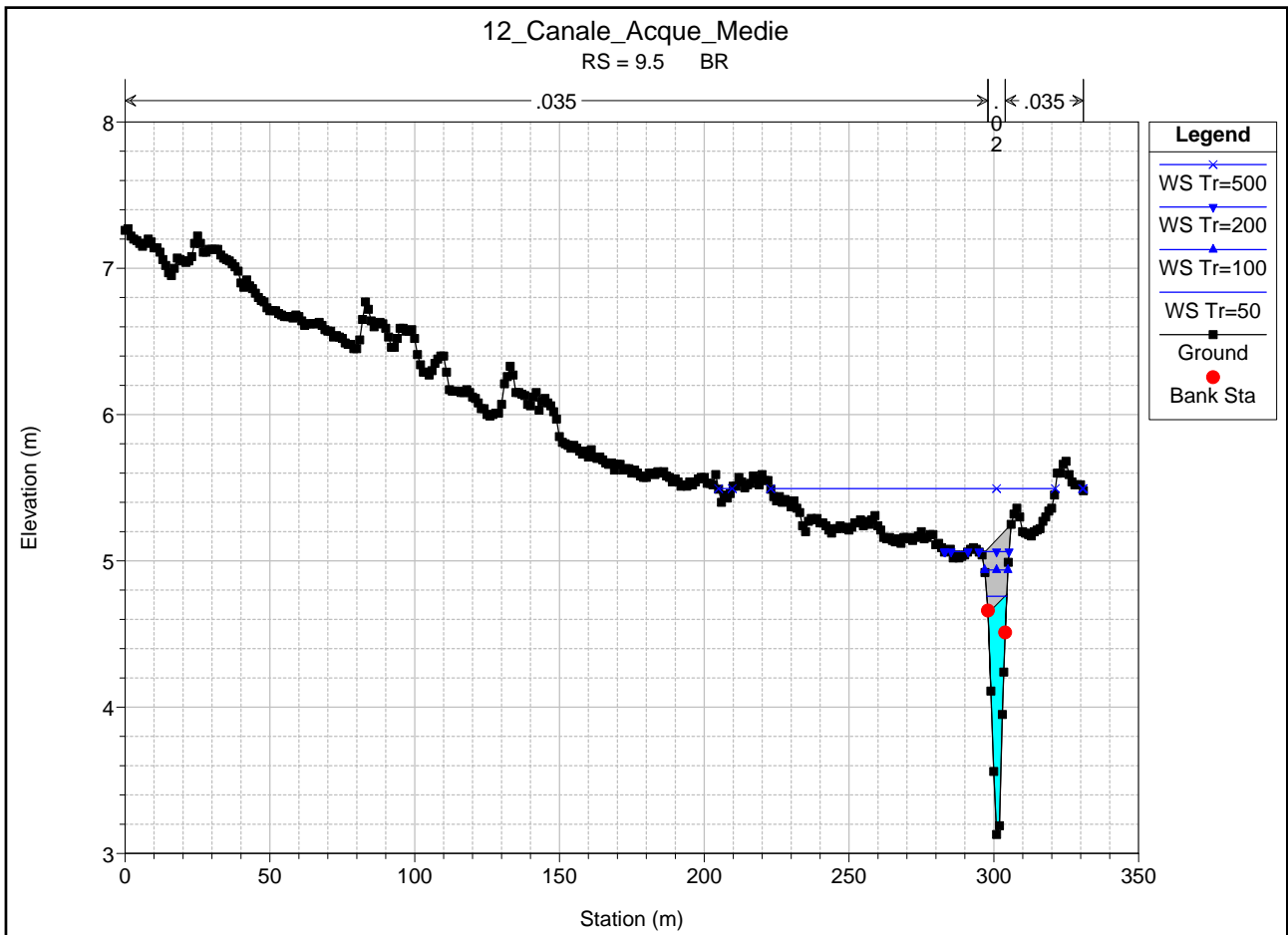


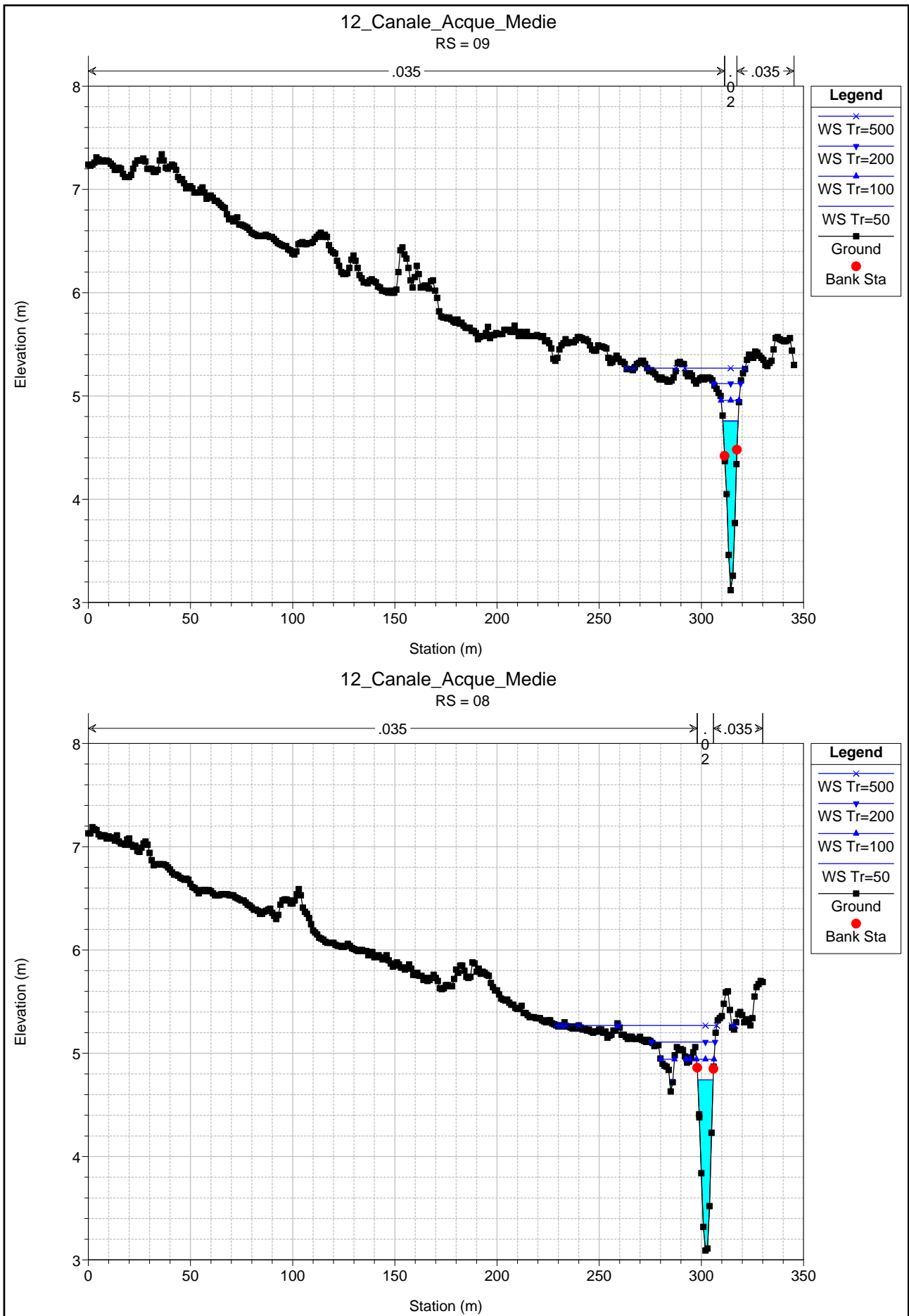
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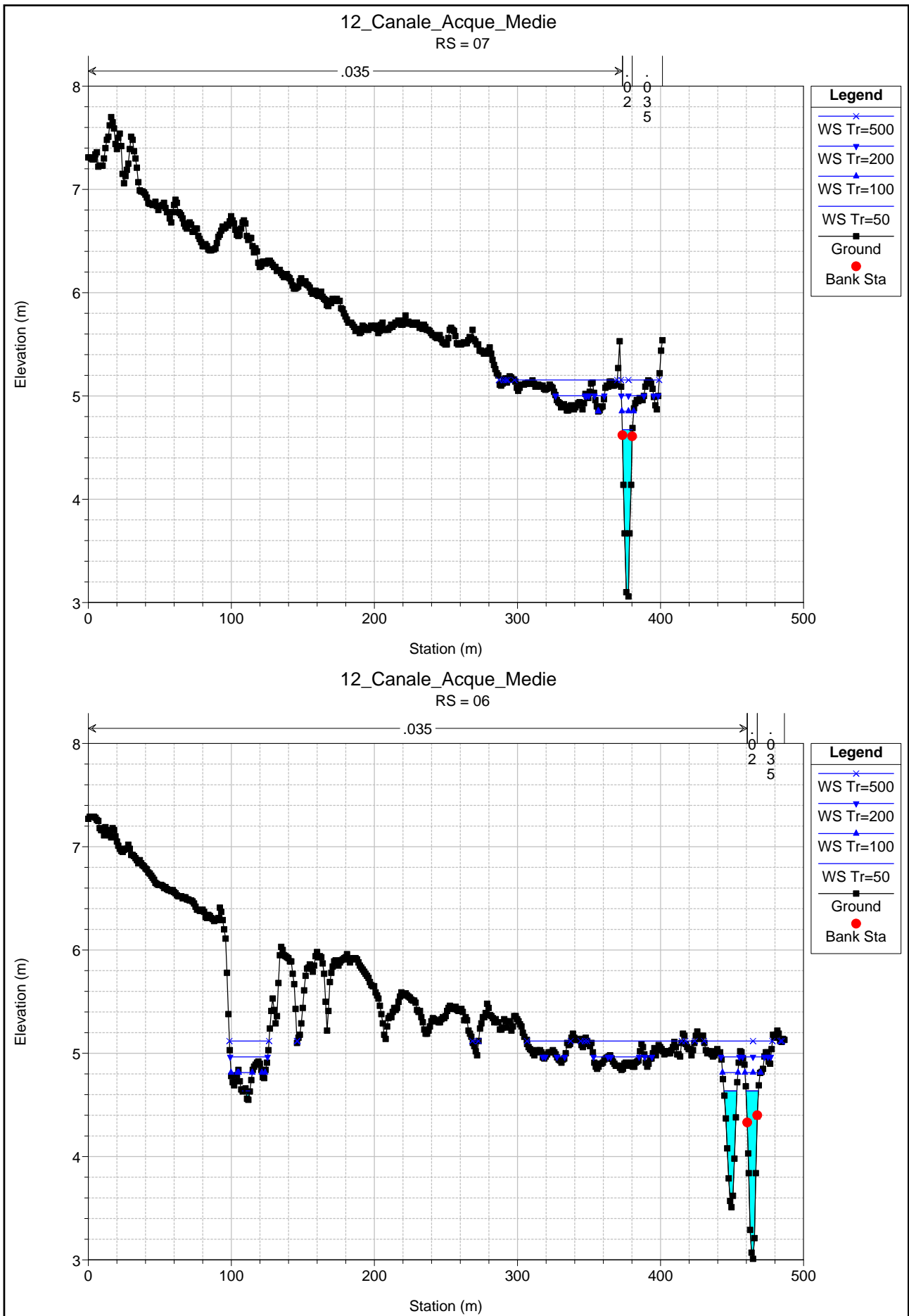
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RS = 10

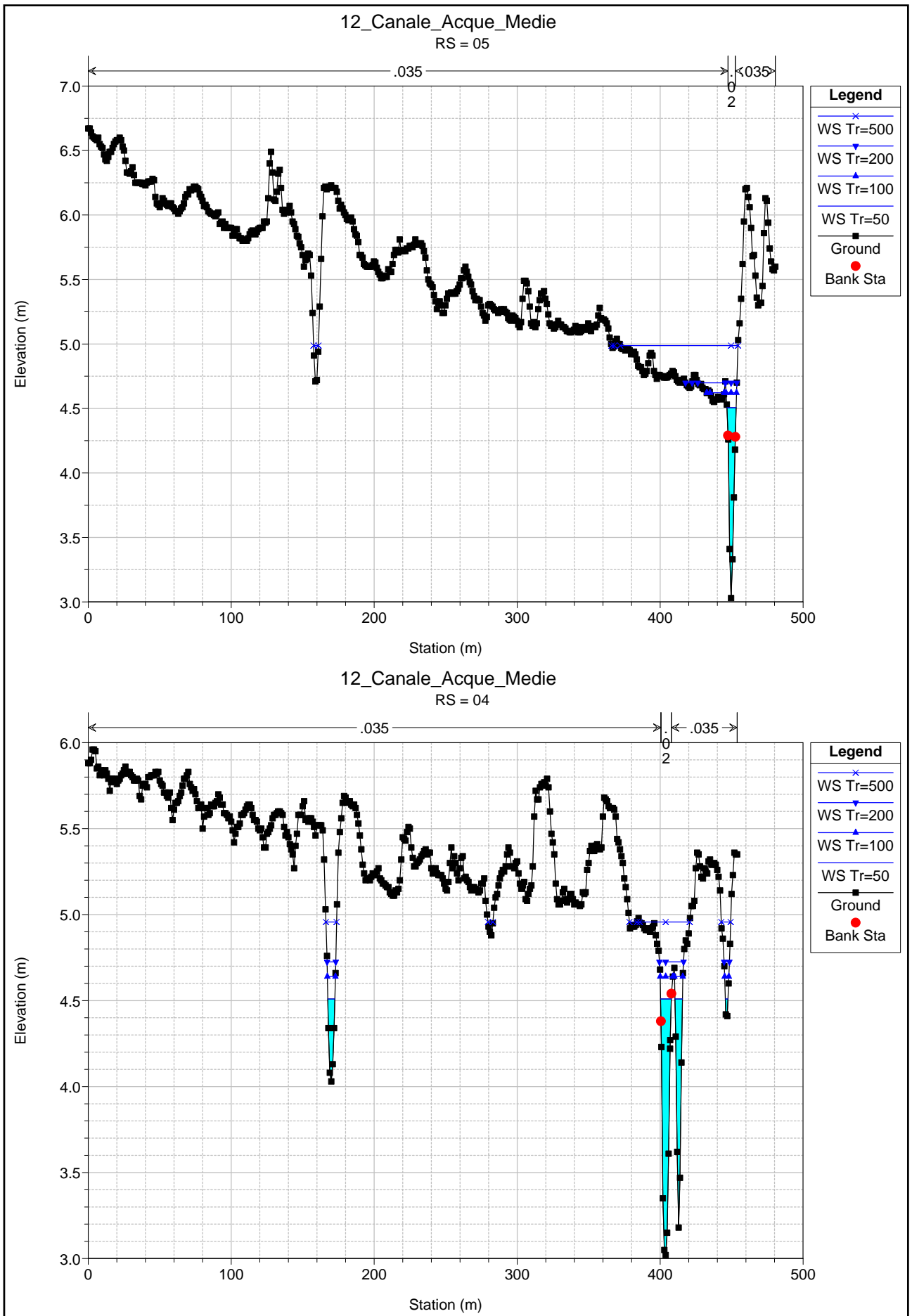


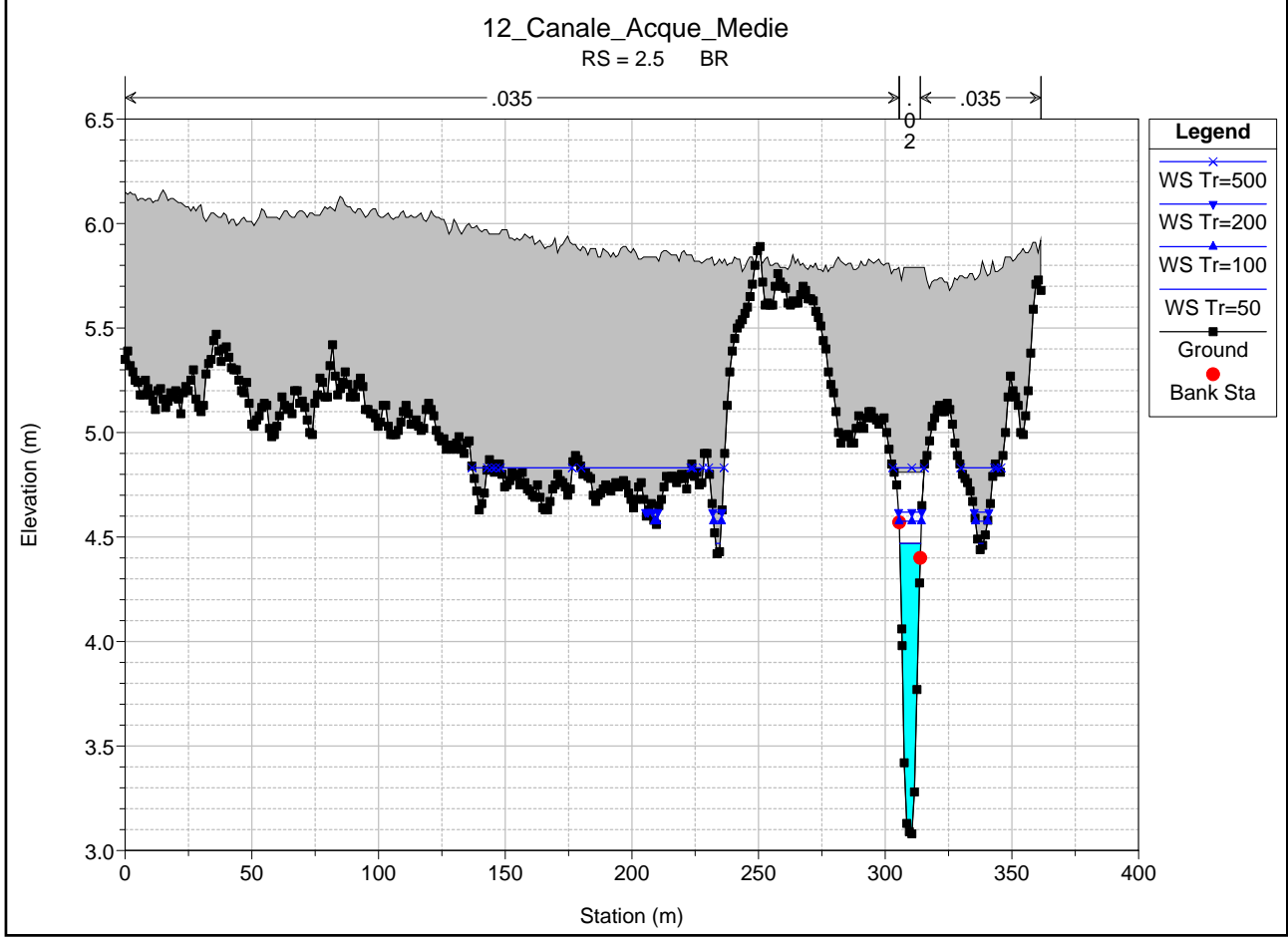
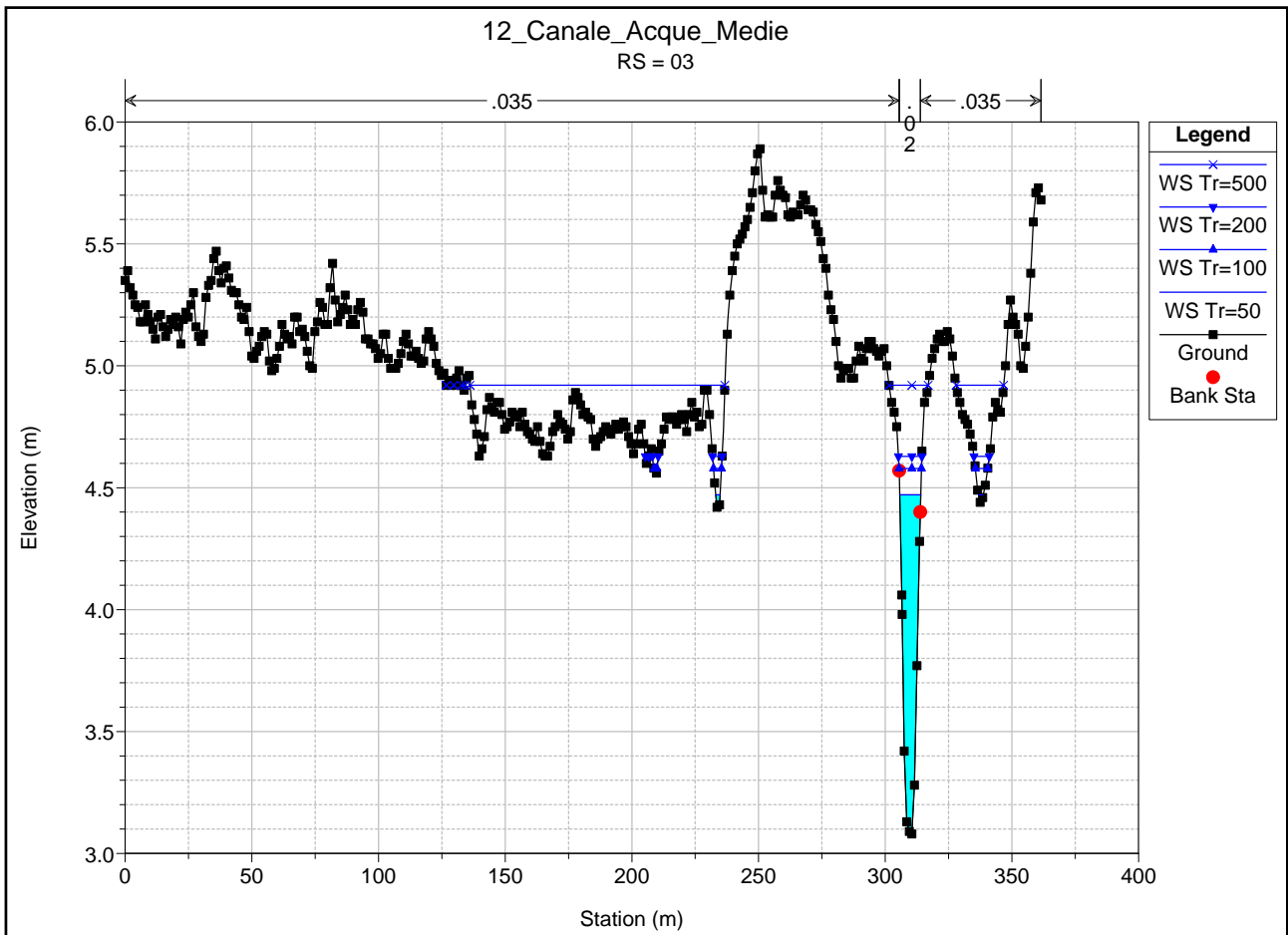
- Legend**
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 - WS Tr=100
 - WS Tr=50
 - Ground
 - Bank Sta

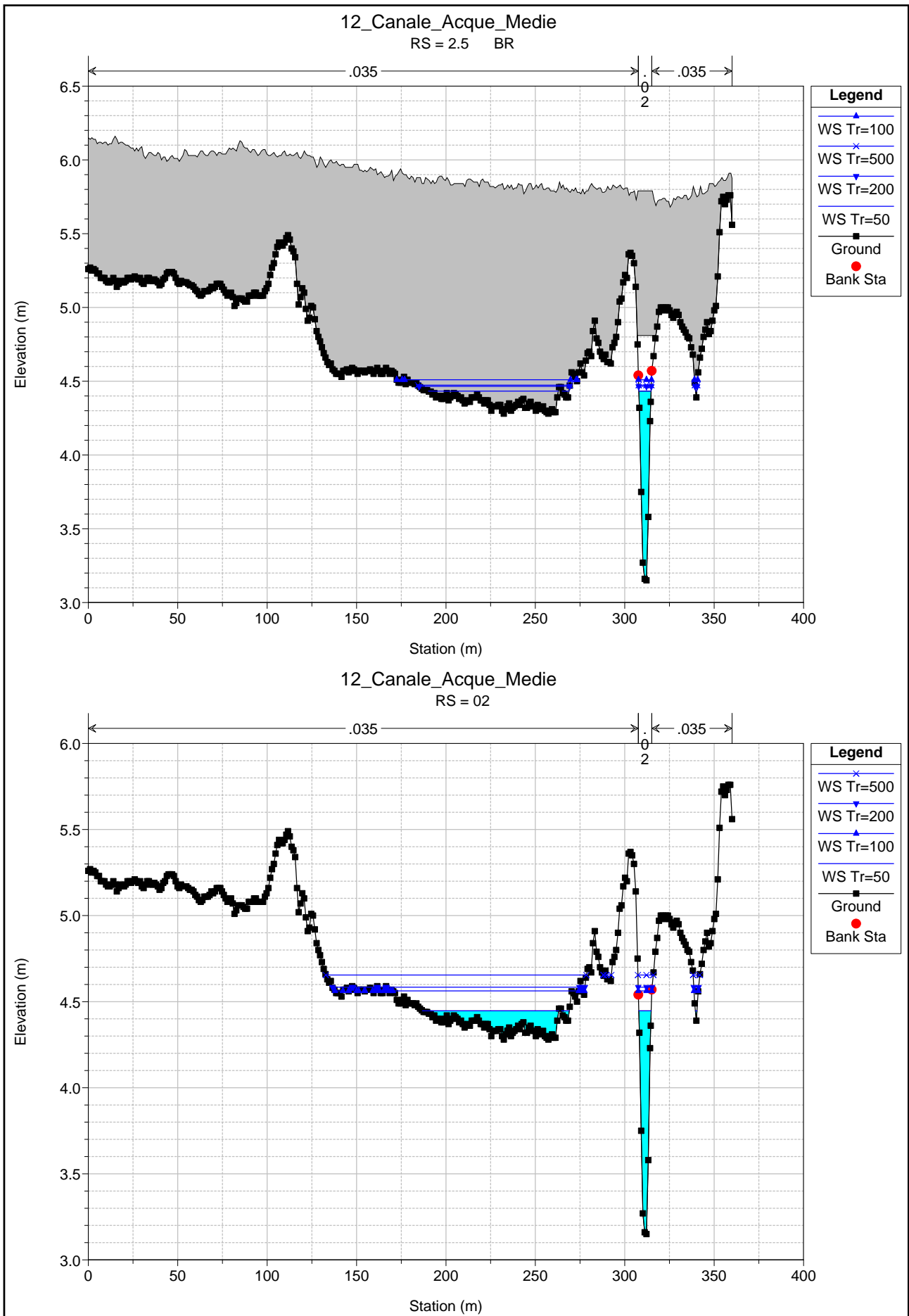




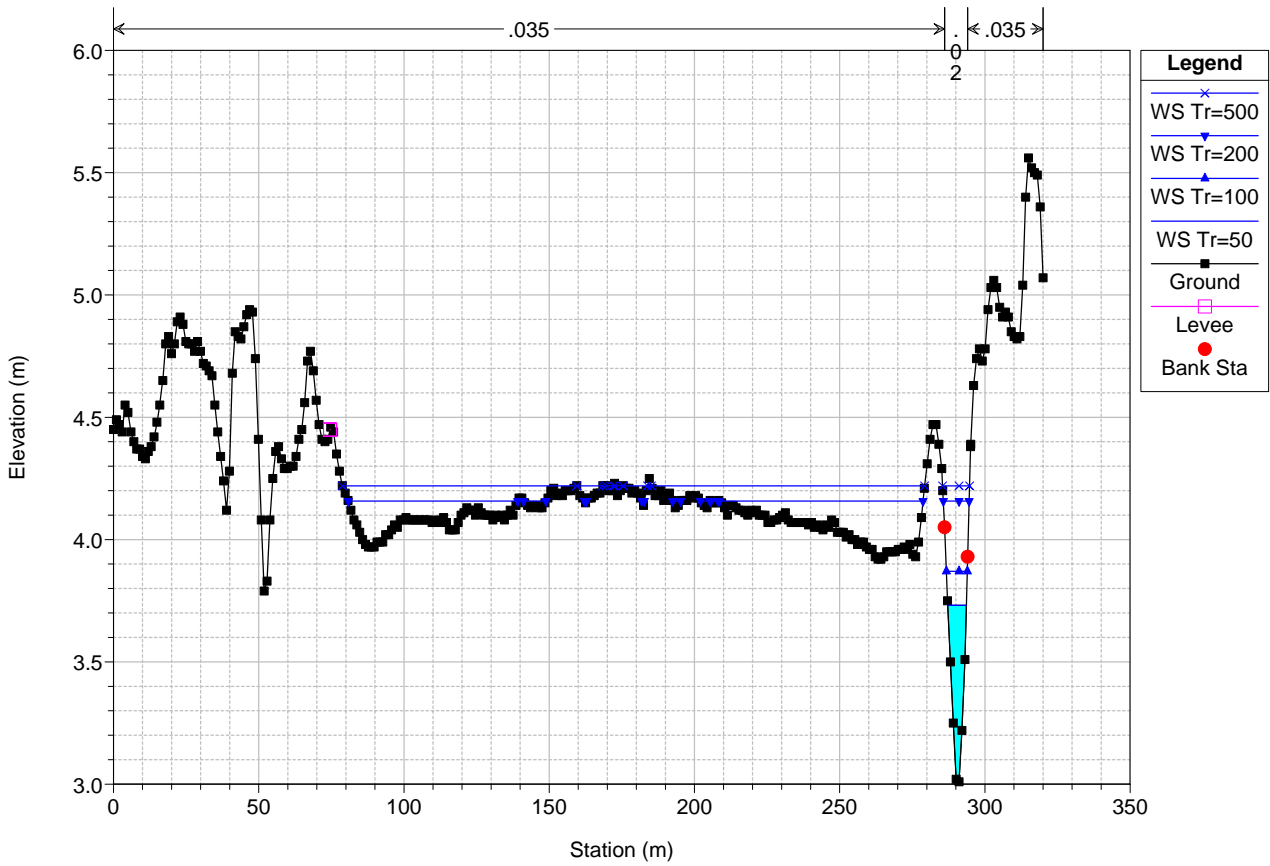






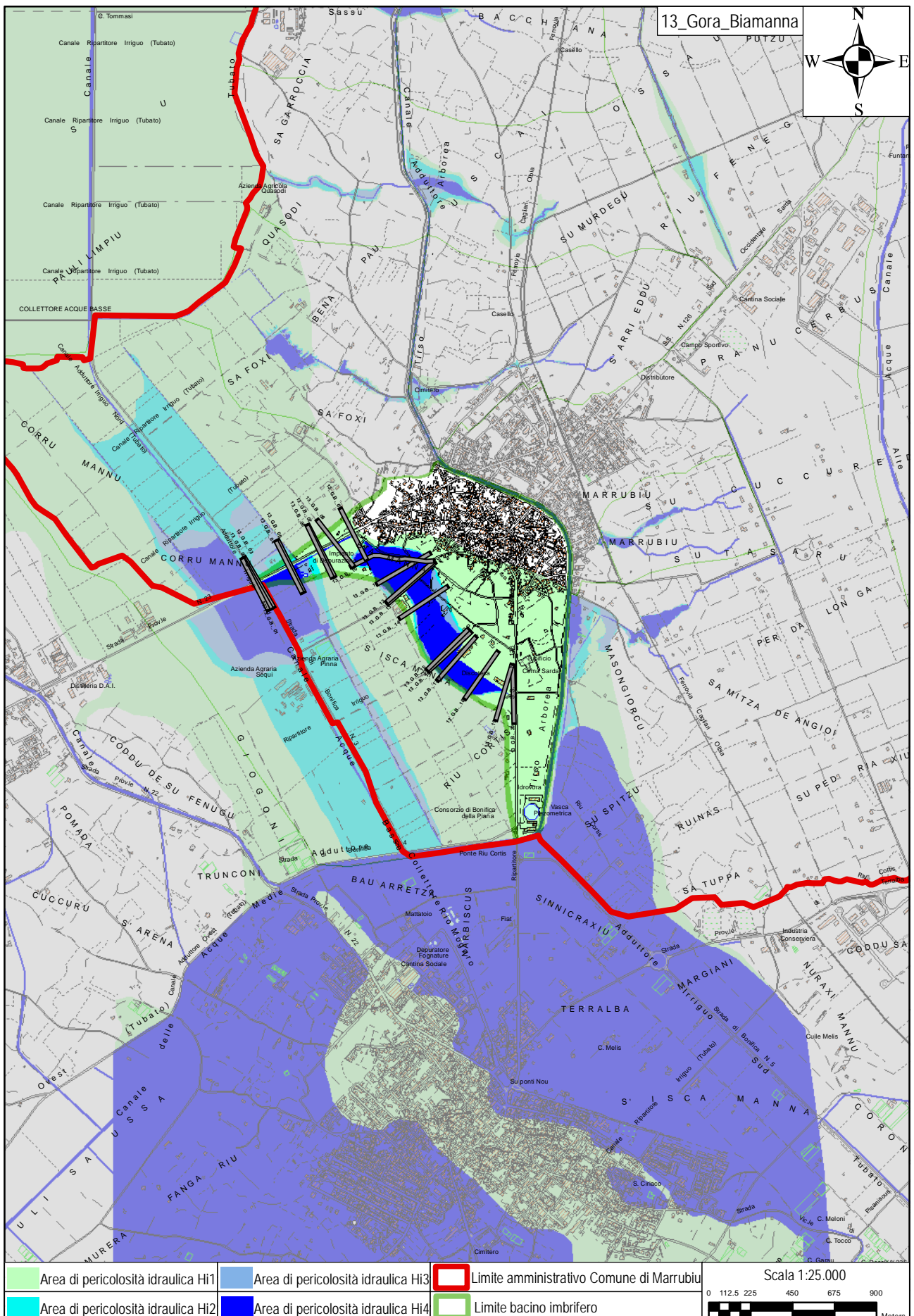


12_Canale_Acque_Medie
RS = 01



6. Gora Bia Manna

Inquadramento



Principali grandezze morfometriche

GORA BIA MANNA – sub-bacino n. 13			
Superficie del bacino	S	1,32	[km ²]
Altitudine massima	H_{max}	9,9	[m slm]
Altitudine minima	H_{min}	- 0,3	[m slm]
Altitudine media	H_{med}	3,9	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	10,2	[m]
Pendenza media del bacino	p_m	5,2	[%]
Lunghezza dell'asta principale	L	1,92	[km]
Pendenza dell'asta principale	i	0,9	[%]
Quota della sezione di chiusura	H_{min}	- 0,0	[m slm]
Curve Number	CN	82,08	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	0,95	[m/s]
Ventura	t_c	1,54	[m/s]
Giandotti	t_c	4,57	[m/s]
Pasini	t_c	1,55	[m/s]
VAPI	t_c	1,31	[m/s]
Viparelli	t_c	0,53	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 20)	4,52	5,94	7,46	9,62	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

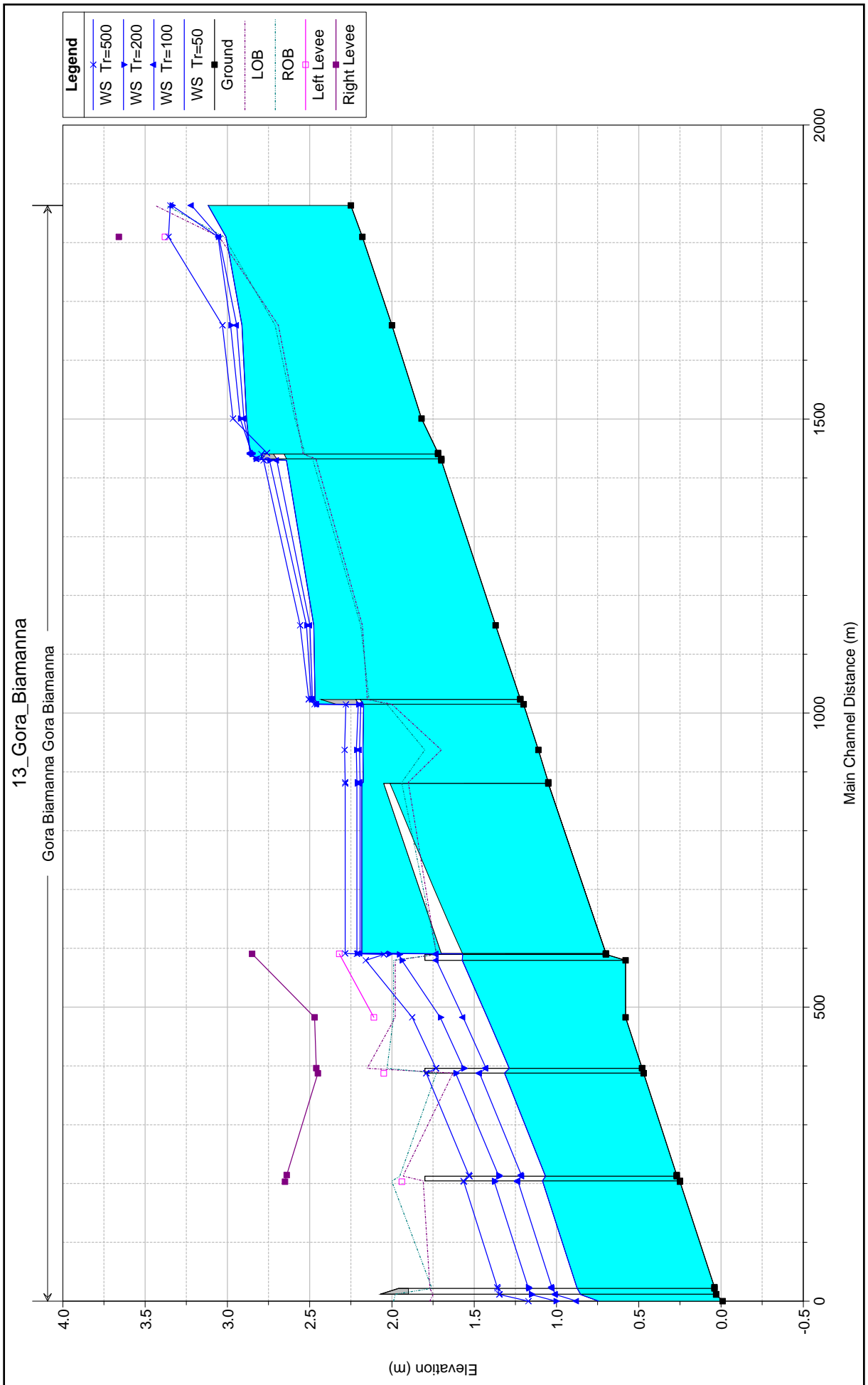
HEC-RAS Plan: 1 River: Gora Biamanna Reach: Gora Biamanna

Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Gora Biamanna	20	Tr=50	53.46	4.52	2.25	3.12	1.48	3.06	0.56
Gora Biamanna	20	Tr=100	53.46	5.94	2.25	3.22	1.70	3.50	0.61
Gora Biamanna	20	Tr=200	53.46	7.46	2.25	3.34	1.84	4.05	0.64
Gora Biamanna	20	Tr=500	53.46	9.62	2.25	3.35	2.35	4.10	0.82
Gora Biamanna	19	Tr=50	150.33	4.52	2.18	3.01	1.54	2.94	0.61
Gora Biamanna	19	Tr=100	150.33	5.94	2.18	3.05	1.89	3.15	0.76
Gora Biamanna	19	Tr=200	150.33	7.46	2.18	3.06	2.36	3.17	0.96
Gora Biamanna	19	Tr=500	150.33	9.62	2.18	3.36	1.65	12.62	1.10
Gora Biamanna	18	Tr=50	158.67	4.52	2.00	2.91	0.99	9.68	0.84
Gora Biamanna	18	Tr=100	158.67	5.94	2.00	2.94	1.15	12.55	0.91
Gora Biamanna	18	Tr=200	158.67	7.46	2.00	2.98	1.21	16.72	0.83
Gora Biamanna	18	Tr=500	158.67	9.62	2.00	3.03	1.22	24.34	0.84
Gora Biamanna	17	Tr=50	58.44	4.52	1.82	2.88	0.60	21.65	0.35
Gora Biamanna	17	Tr=100	58.44	5.94	1.82	2.90	0.73	23.60	0.40
Gora Biamanna	17	Tr=200	58.44	7.46	1.82	2.92	0.83	26.52	0.43
Gora Biamanna	17	Tr=500	58.44	9.62	1.82	2.97	0.88	32.46	0.41
Gora Biamanna	16	Tr=50	12.60	4.52	1.72	2.86	0.67	14.14	0.59
Gora Biamanna	16	Tr=100	12.60	5.94	1.72	2.86	0.89	13.80	0.78
Gora Biamanna	16	Tr=200	12.60	7.46	1.72	2.85	1.15	12.89	1.02
Gora Biamanna	16	Tr=500	12.60	9.62	1.72	2.76	1.84	6.16	1.34
Gora Biamanna	15.5		Culvert						
Gora Biamanna	15	Tr=50	280.52	4.52	1.70	2.64	1.10	7.47	1.31
Gora Biamanna	15	Tr=100	280.52	5.94	1.70	2.70	1.07	16.96	1.03
Gora Biamanna	15	Tr=200	280.52	7.46	1.70	2.74	1.00	27.55	0.74
Gora Biamanna	15	Tr=500	280.52	9.62	1.70	2.78	1.00	36.92	0.59
Gora Biamanna	14	Tr=50	125.21	4.52	1.37	2.48	0.99	10.84	0.91
Gora Biamanna	14	Tr=100	125.21	5.94	1.37	2.50	1.16	13.63	0.99
Gora Biamanna	14	Tr=200	125.21	7.46	1.37	2.52	1.31	16.58	1.03
Gora Biamanna	14	Tr=500	125.21	9.62	1.37	2.56	1.37	23.38	1.01
Gora Biamanna	13	Tr=50	9.40	4.52	1.22	2.47	0.53	24.16	0.37
Gora Biamanna	13	Tr=100	9.40	5.94	1.22	2.48	0.64	26.83	0.43
Gora Biamanna	13	Tr=200	9.40	7.46	1.22	2.49	0.78	28.22	0.52
Gora Biamanna	13	Tr=500	9.40	9.62	1.22	2.51	0.94	30.95	0.59
Gora Biamanna	12.5		Culvert						
Gora Biamanna	12	Tr=50	77.33	4.52	1.20	2.17	0.74	11.29	0.68
Gora Biamanna	12	Tr=100	77.33	5.94	1.20	2.19	0.91	13.12	0.79
Gora Biamanna	12	Tr=200	77.33	7.46	1.20	2.20	1.08	14.91	0.90
Gora Biamanna	12	Tr=500	77.33	9.62	1.20	2.28	1.01	26.95	0.71
Gora Biamanna	11	Tr=50	54.96	4.52	1.11	2.18	0.39	42.10	0.20
Gora Biamanna	11	Tr=100	54.96	5.94	1.11	2.20	0.45	47.54	0.21
Gora Biamanna	11	Tr=200	54.96	7.46	1.11	2.22	0.51	52.76	0.22
Gora Biamanna	11	Tr=500	54.96	9.62	1.11	2.29	0.46	72.63	0.15
Gora Biamanna	10	Tr=50	291.77	4.52	1.05	2.17	0.28	54.60	0.14
Gora Biamanna	10	Tr=100	291.77	5.94	1.05	2.19	0.35	60.92	0.16
Gora Biamanna	10	Tr=200	291.77	7.46	1.05	2.21	0.40	67.17	0.17
Gora Biamanna	10	Tr=500	291.77	9.62	1.05	2.28	0.37	93.09	0.13
Gora Biamanna	9.5		Culvert						
Gora Biamanna	9	Tr=50	1.00	4.52	0.70	1.57	1.30	3.48	0.47
Gora Biamanna	9	Tr=100	1.00	5.94	0.70	1.73	1.40	4.26	0.50
Gora Biamanna	9	Tr=200	1.00	7.46	0.70	2.02	1.26	6.86	0.58
Gora Biamanna	9	Tr=500	1.00	9.62	0.70	2.21	1.26	11.29	0.62
Gora Biamanna	8.5		Bridge						

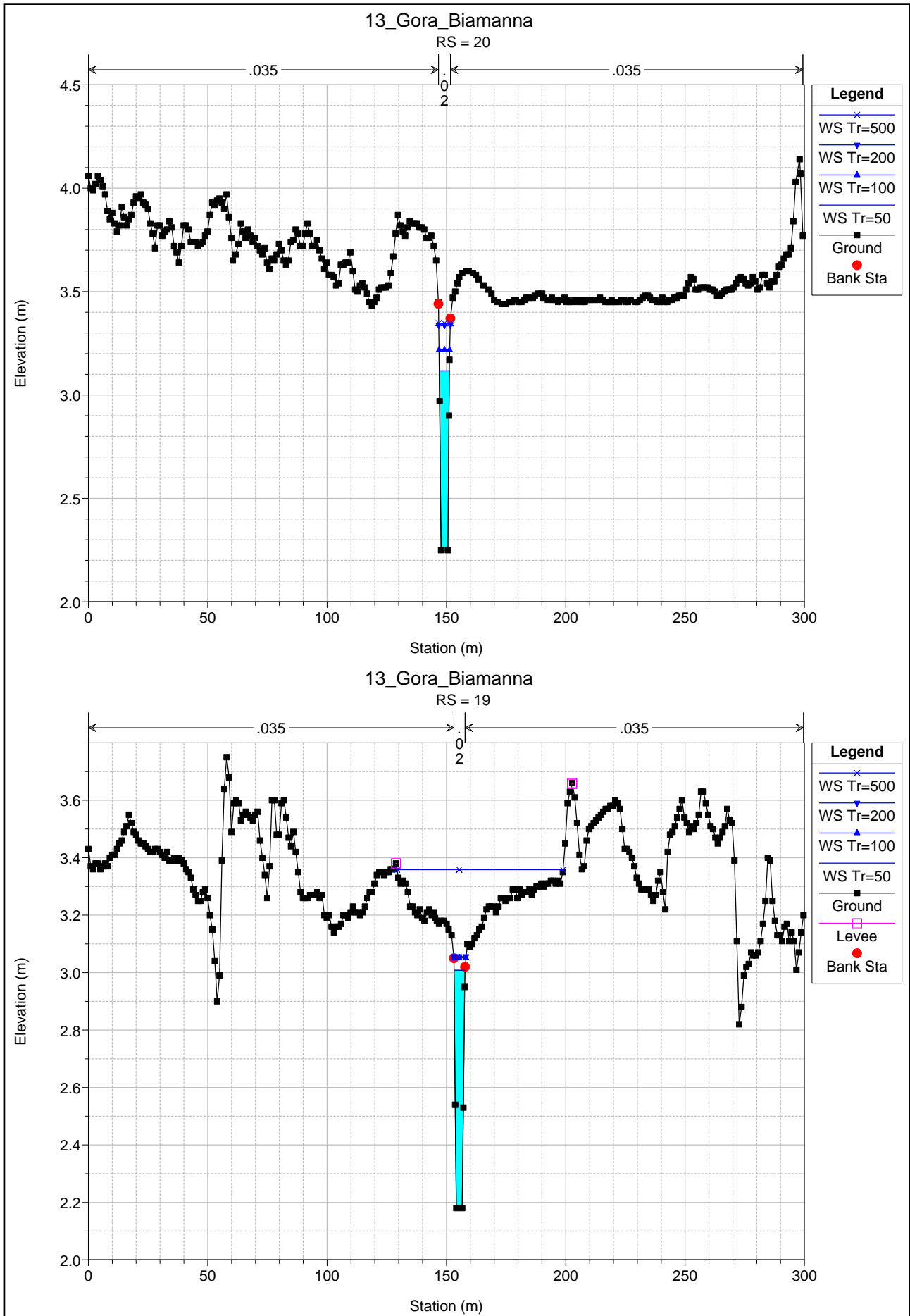
HEC-RAS Plan: 1 River: Gora Biamanna Reach: Gora Biamanna (Continued)

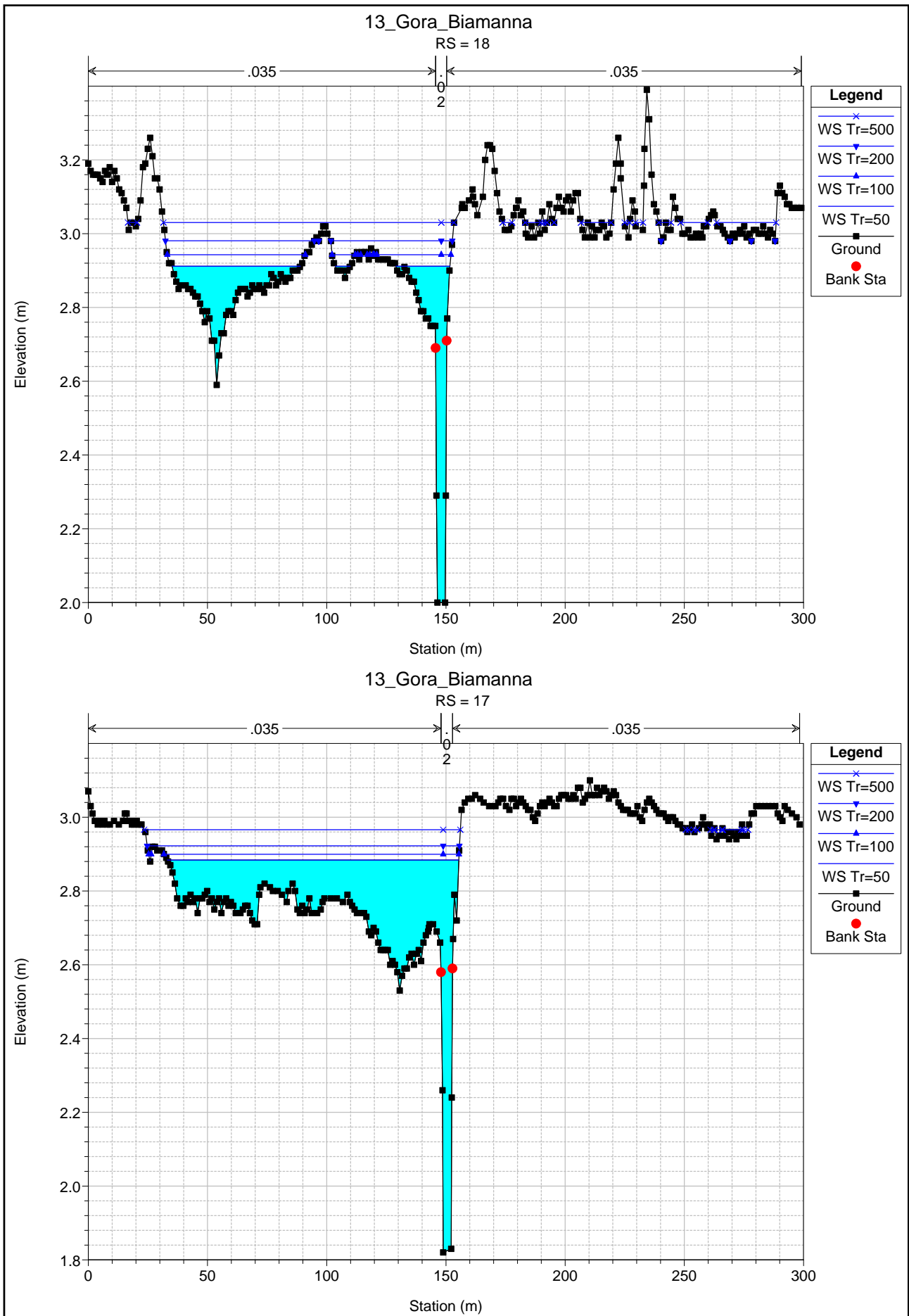
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Gora Biamanna	08	Tr=50	86.27	4.52	0.58	1.42	1.41	3.20	0.53
Gora Biamanna	08	Tr=100	86.27	5.94	0.58	1.57	1.53	3.88	0.54
Gora Biamanna	08	Tr=200	86.27	7.46	0.58	1.71	1.63	4.57	0.56
Gora Biamanna	08	Tr=500	86.27	9.62	0.58	1.88	1.74	5.51	0.57
Gora Biamanna	07	Tr=50	0.50	4.52	0.48	1.29	1.40	3.24	0.53
Gora Biamanna	07	Tr=100	0.50	5.94	0.48	1.43	1.52	3.90	0.55
Gora Biamanna	07	Tr=200	0.50	7.46	0.48	1.57	1.62	4.60	0.56
Gora Biamanna	07	Tr=500	0.50	9.62	0.48	1.73	1.73	5.56	0.57
Gora Biamanna	6.5	Bridge							
Gora Biamanna	06	Tr=50	172.97	4.52	0.47	1.32	0.95	4.75	0.39
Gora Biamanna	06	Tr=100	172.97	5.94	0.47	1.47	0.99	5.99	0.38
Gora Biamanna	06	Tr=200	172.97	7.46	0.47	1.61	1.02	7.30	0.37
Gora Biamanna	06	Tr=500	172.97	9.62	0.47	1.79	1.07	9.36	0.41
Gora Biamanna	05	Tr=50	2.00	4.52	0.27	1.07	1.42	3.18	0.54
Gora Biamanna	05	Tr=100	2.00	5.94	0.27	1.21	1.55	3.84	0.54
Gora Biamanna	05	Tr=200	2.00	7.46	0.27	1.35	1.65	4.52	0.56
Gora Biamanna	05	Tr=500	2.00	9.62	0.27	1.53	1.75	5.49	0.57
Gora Biamanna	4.5	Bridge							
Gora Biamanna	04	Tr=50	179.50	4.52	0.25	1.08	1.12	4.05	0.42
Gora Biamanna	04	Tr=100	179.50	5.94	0.25	1.23	1.20	4.93	0.43
Gora Biamanna	04	Tr=200	179.50	7.46	0.25	1.38	1.28	5.85	0.43
Gora Biamanna	04	Tr=500	179.50	9.62	0.25	1.56	1.35	7.12	0.43
Gora Biamanna	03	Tr=50	2.00	4.52	0.04	0.88	1.26	3.60	0.48
Gora Biamanna	03	Tr=100	2.00	5.94	0.04	1.03	1.35	4.40	0.48
Gora Biamanna	03	Tr=200	2.00	7.46	0.04	1.17	1.43	5.21	0.48
Gora Biamanna	03	Tr=500	2.00	9.62	0.04	1.36	1.52	6.33	0.48
Gora Biamanna	2.5	Bridge							
Gora Biamanna	02	Tr=50	11.15	4.52	0.03	0.85	1.31	3.44	0.51
Gora Biamanna	02	Tr=100	11.15	5.94	0.03	1.01	1.40	4.24	0.51
Gora Biamanna	02	Tr=200	11.15	7.46	0.03	1.15	1.46	5.11	0.51
Gora Biamanna	02	Tr=500	11.15	9.62	0.03	1.35	1.51	6.39	0.51
Gora Biamanna	01	Tr=50		4.52	-0.01	0.74	1.81	2.49	0.72
Gora Biamanna	01	Tr=100		5.94	-0.01	0.88	1.97	3.02	0.73
Gora Biamanna	01	Tr=200		7.46	-0.01	1.00	2.10	3.55	0.73
Gora Biamanna	01	Tr=500		9.62	-0.01	1.17	2.24	4.29	0.74

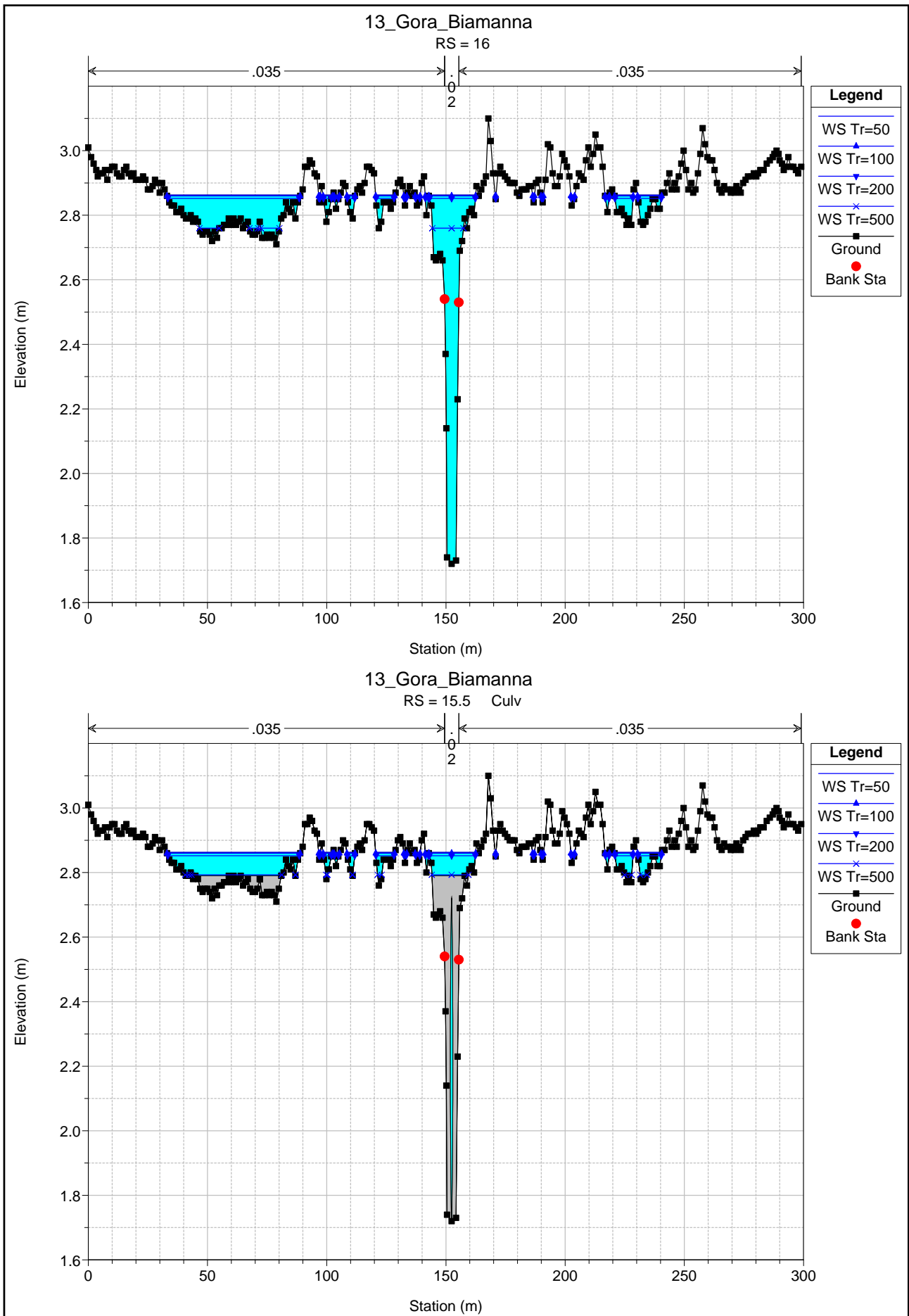
Profilo

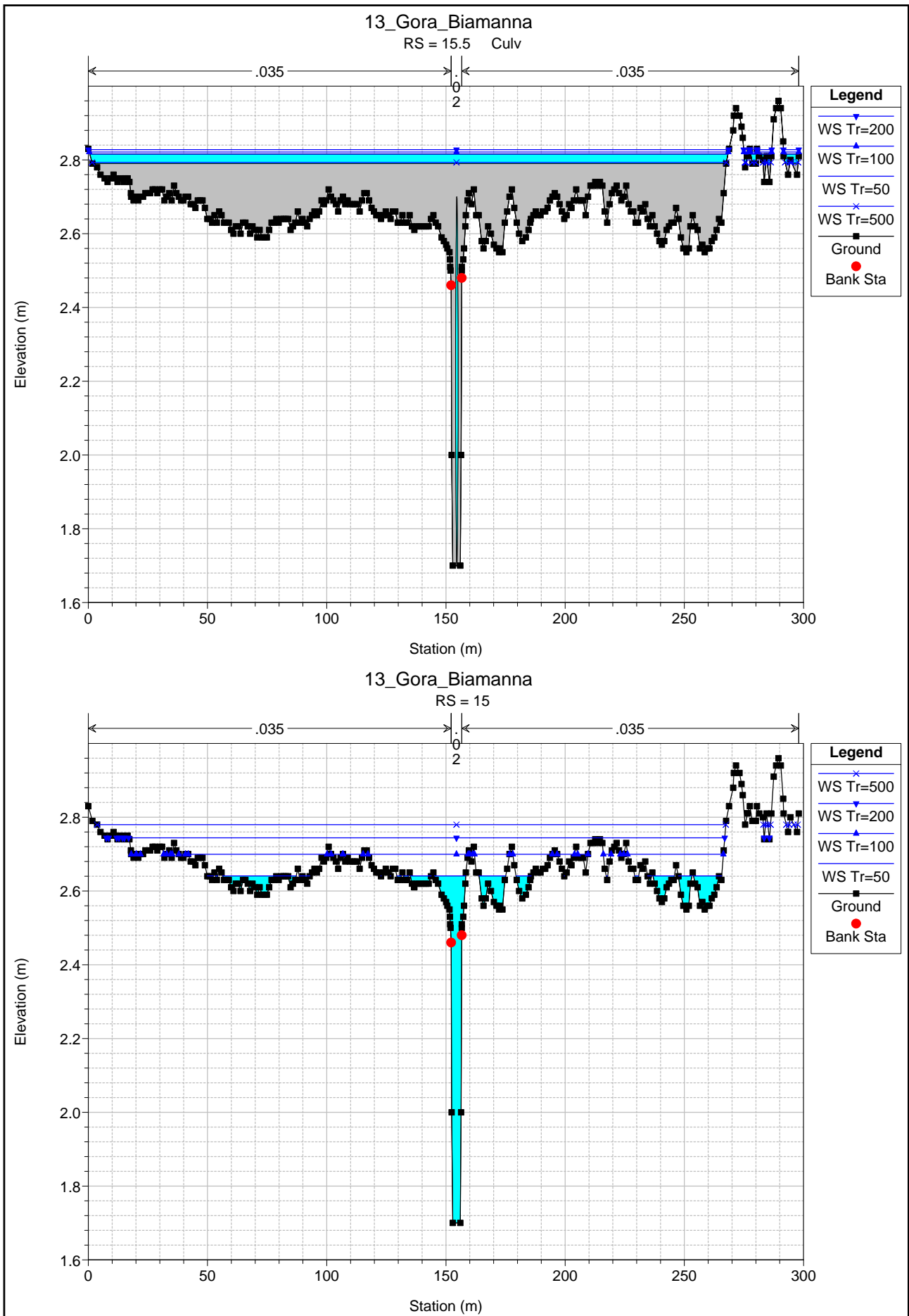


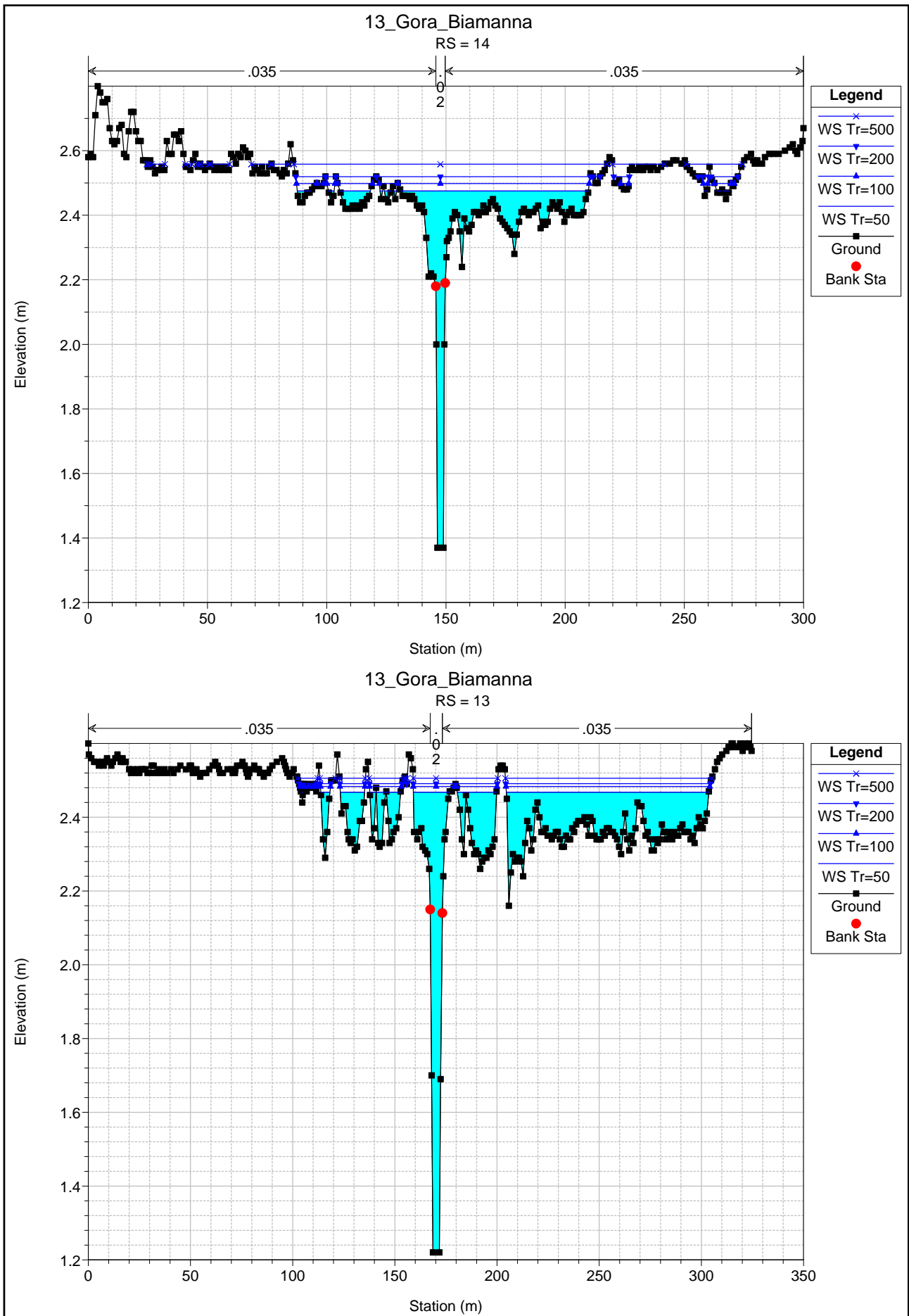
Sezioni fluviali relative ai tempi di ritorno considerati

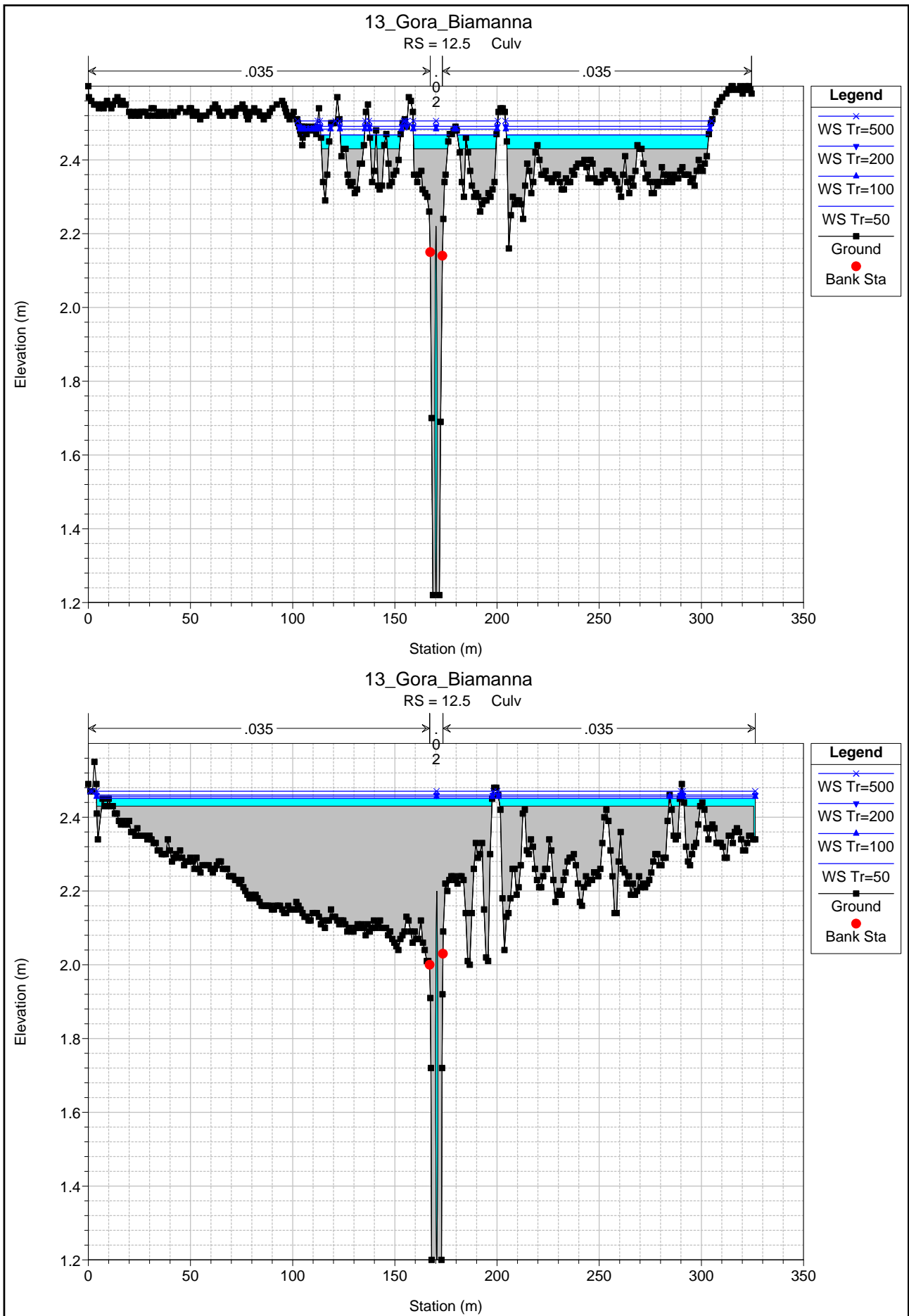


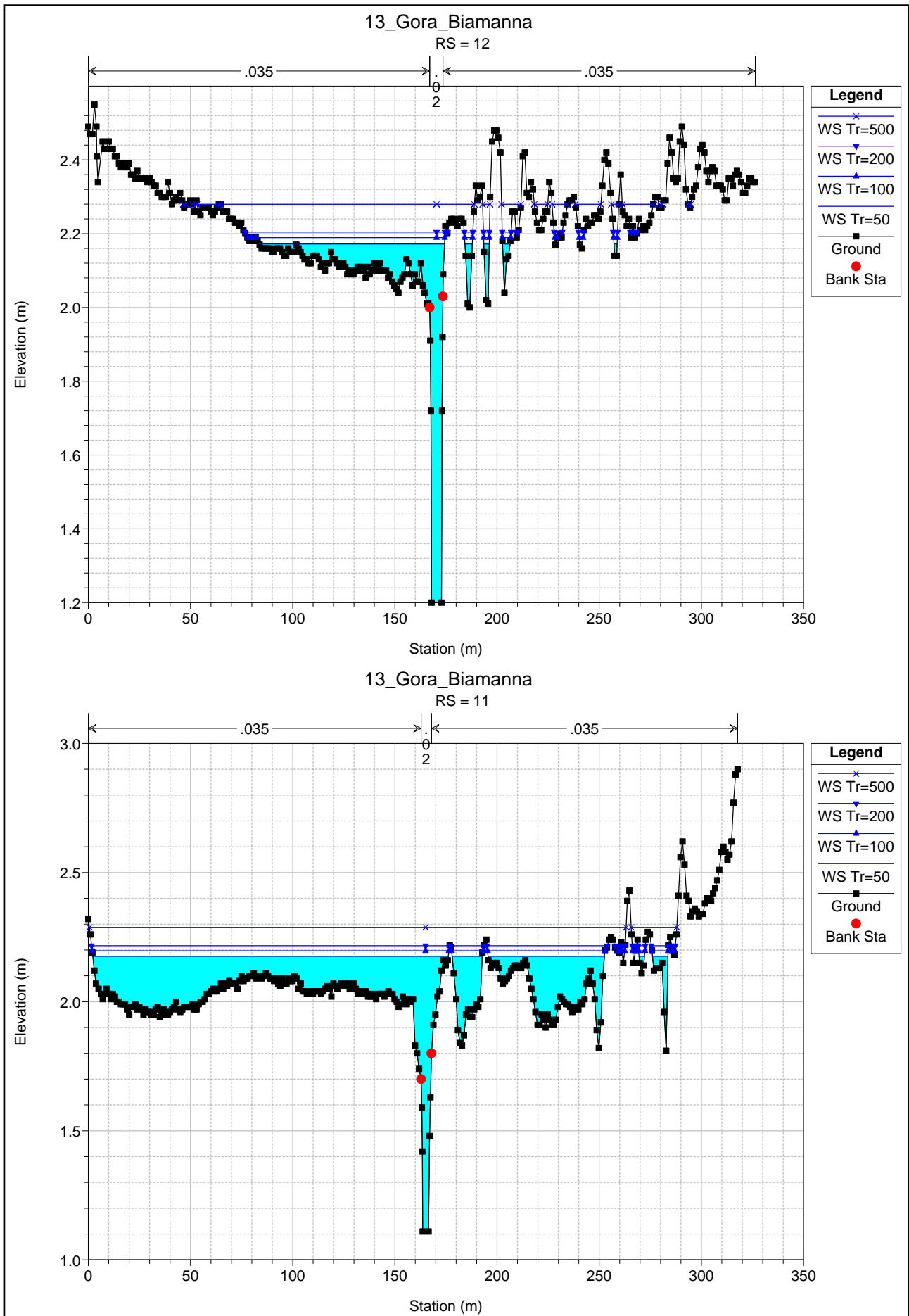


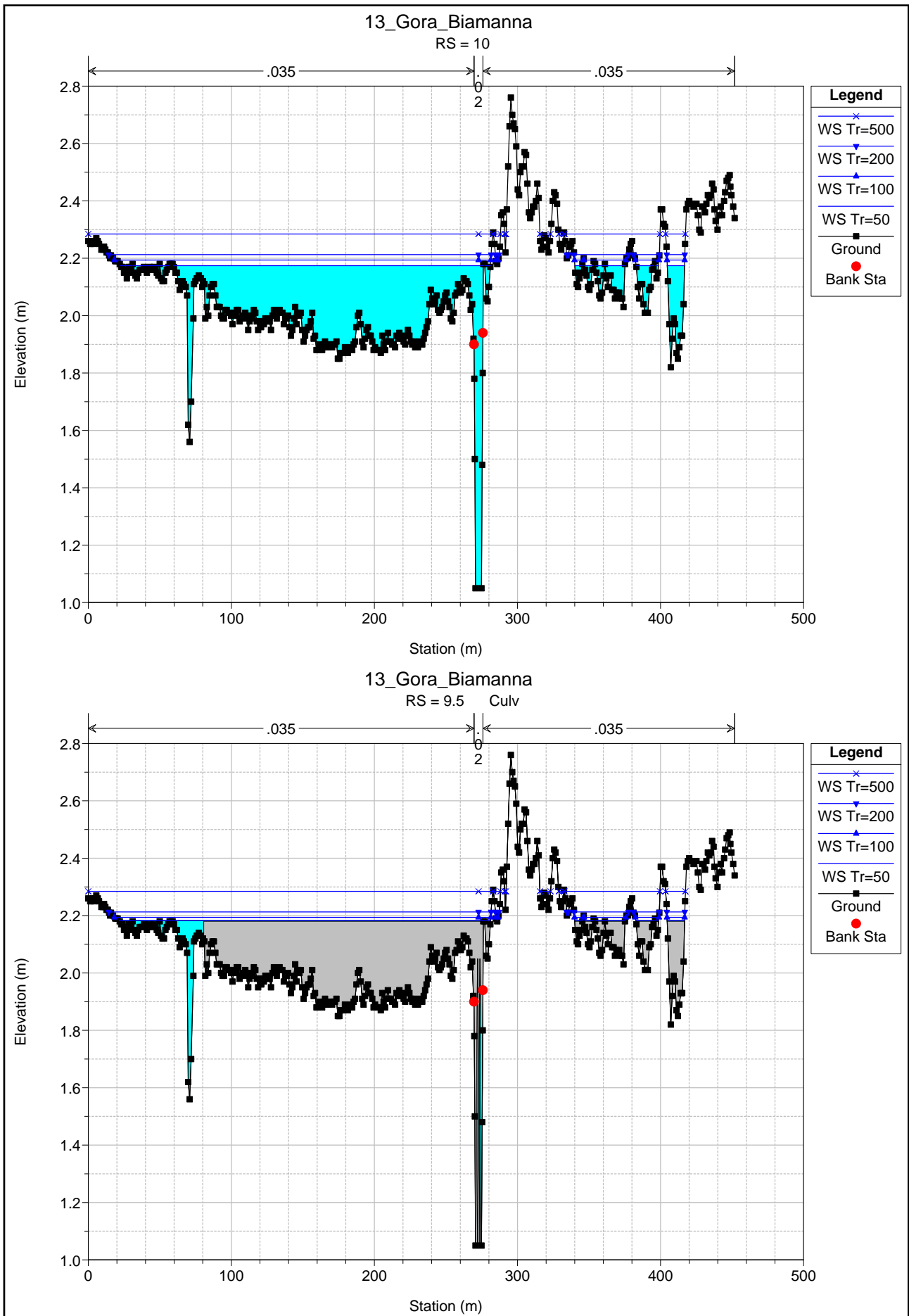


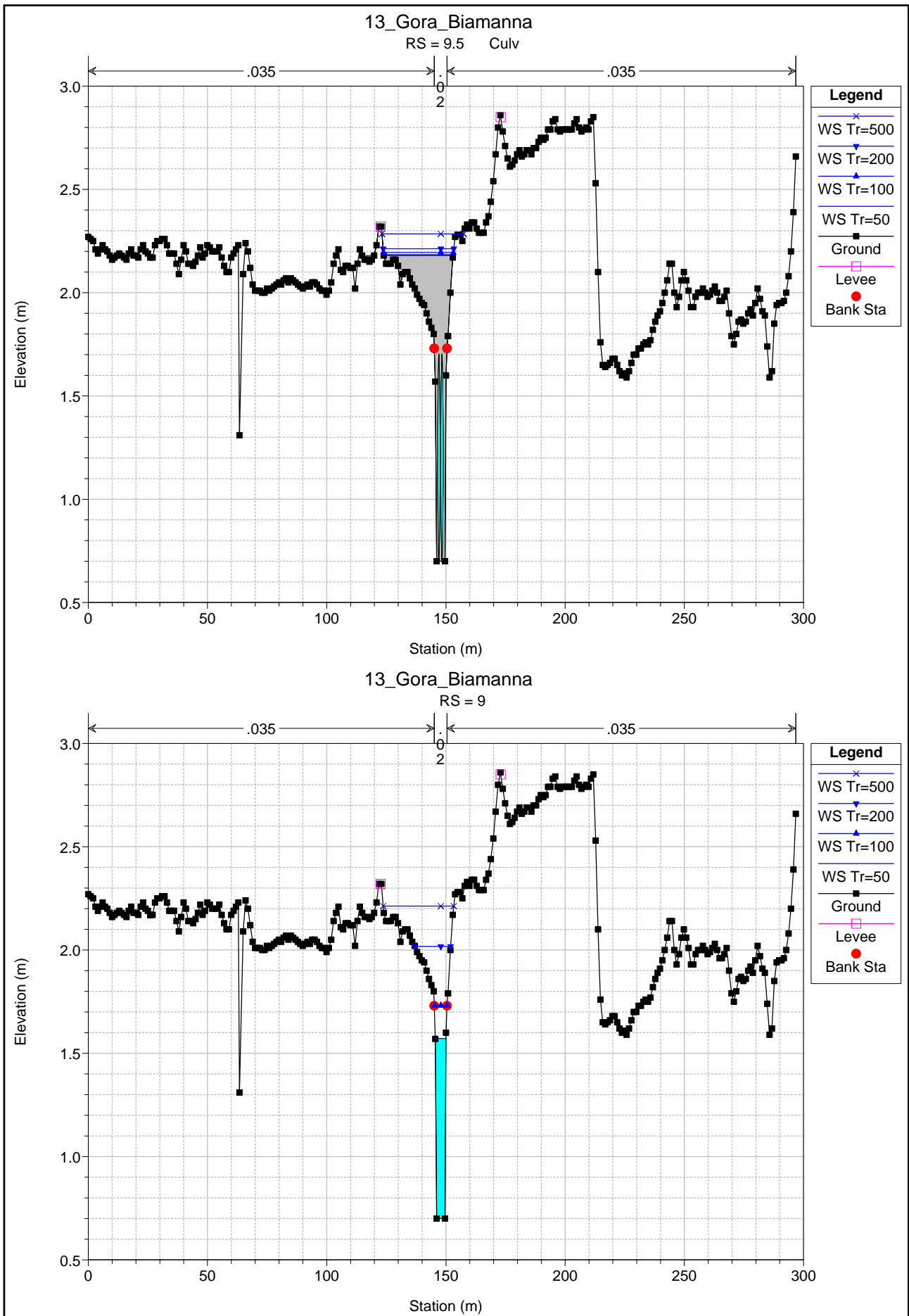


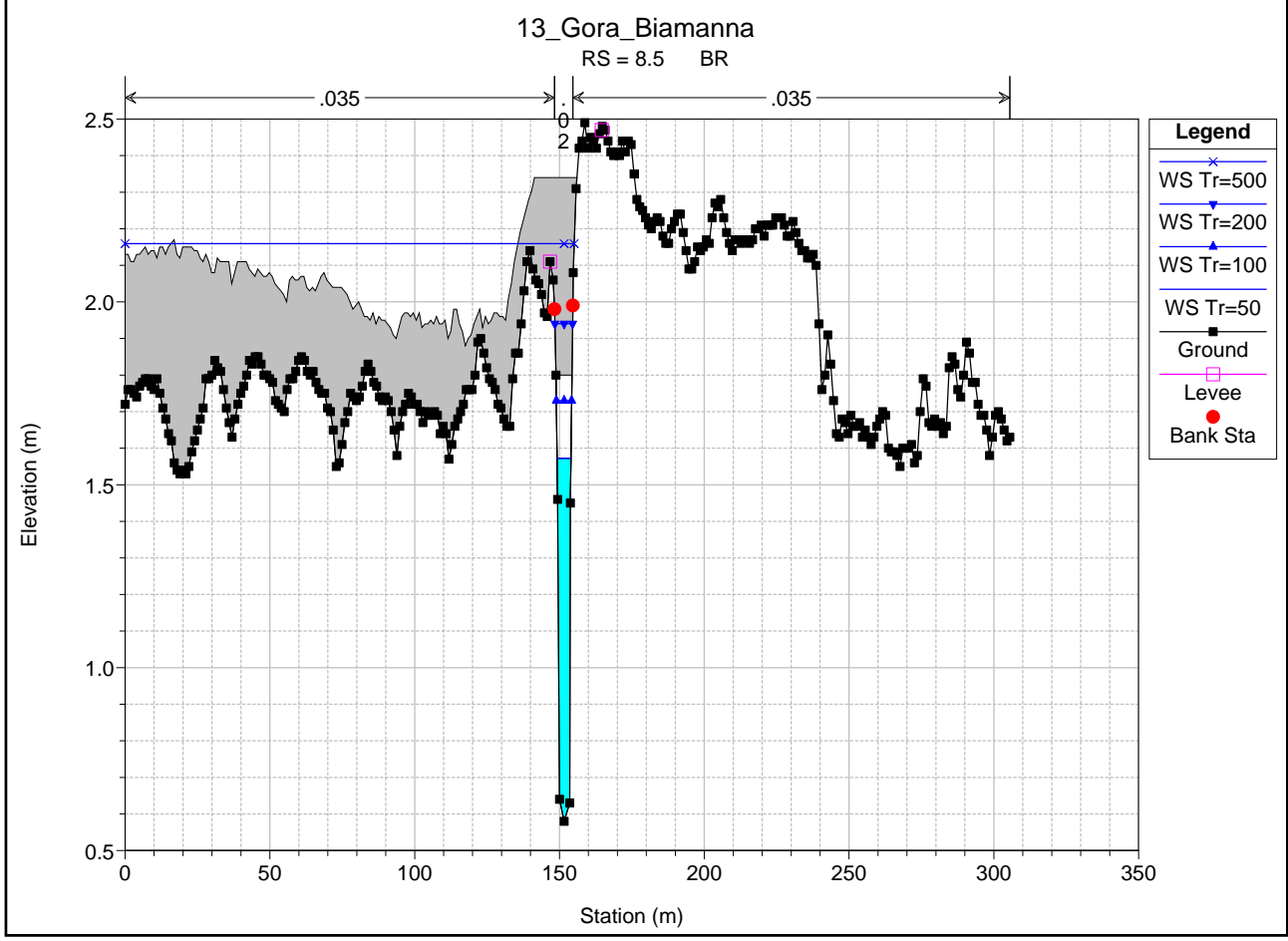
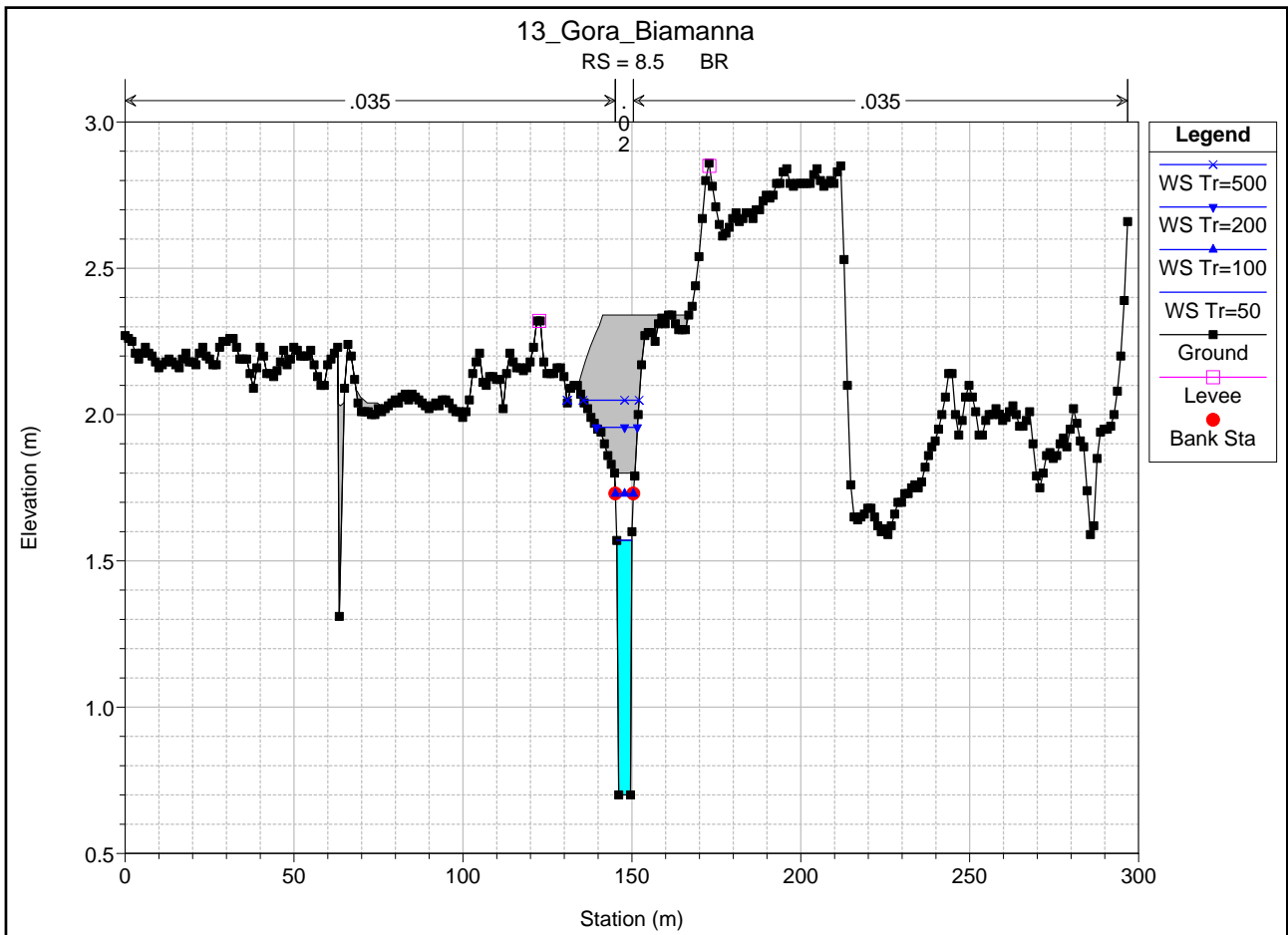


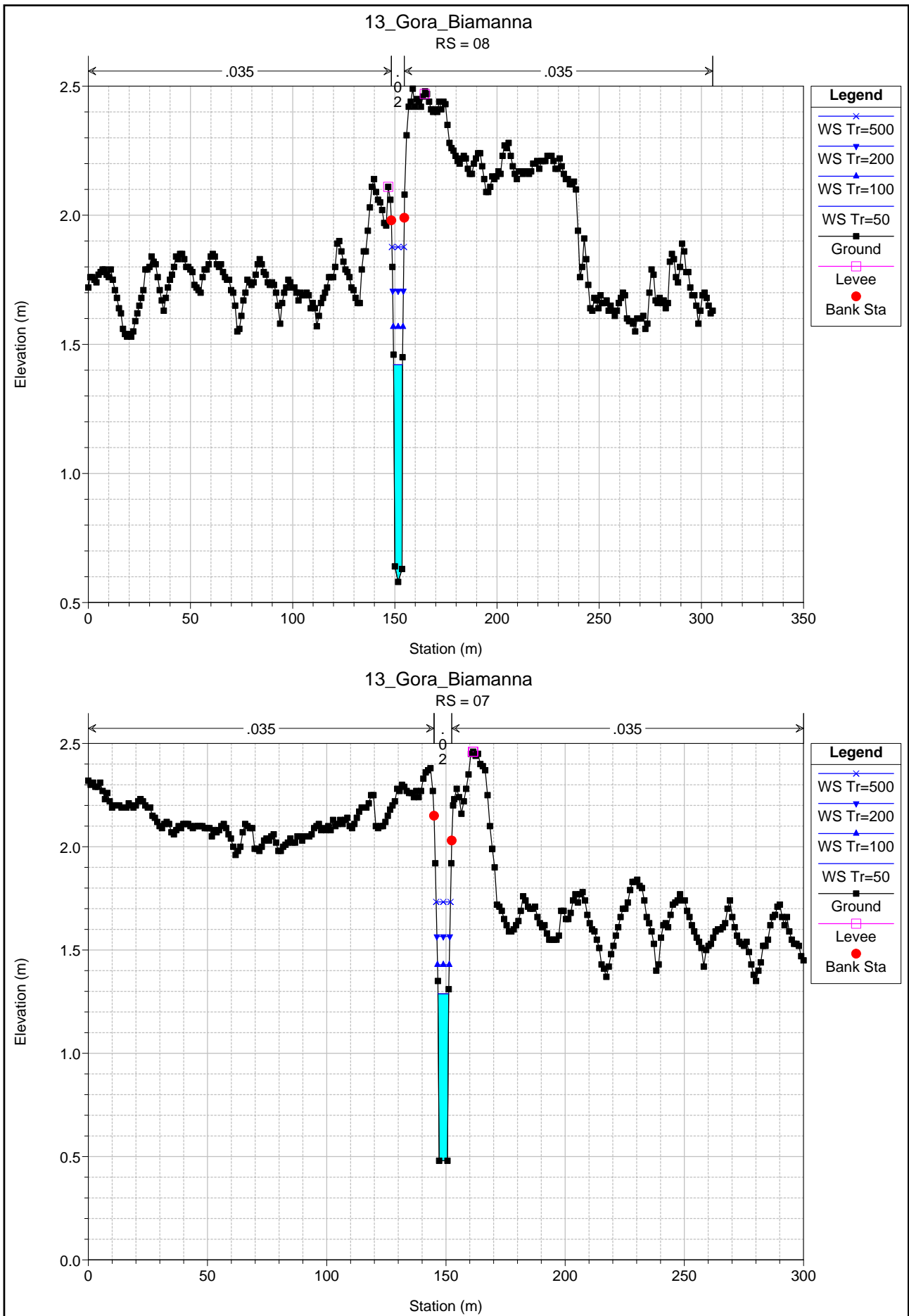


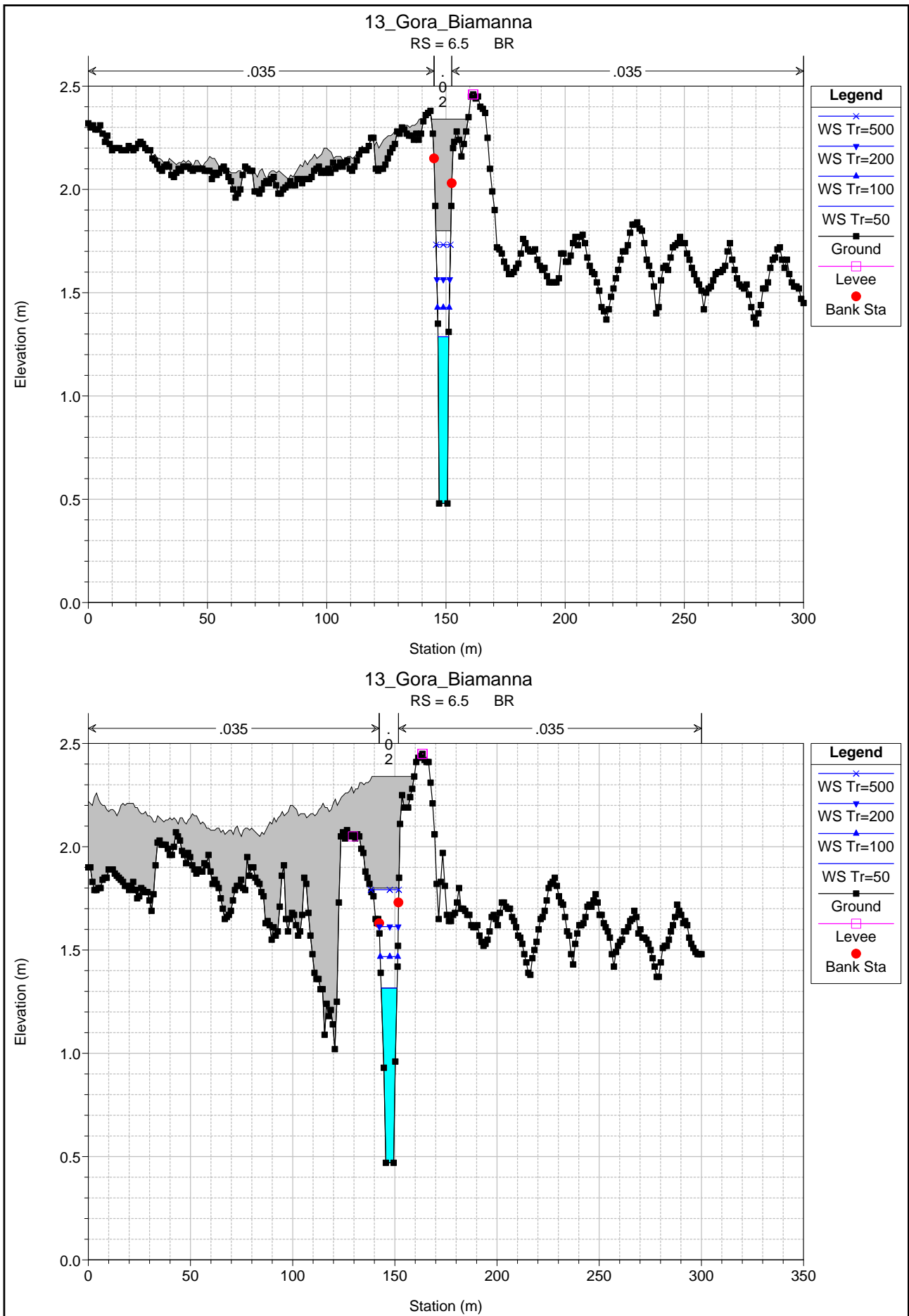


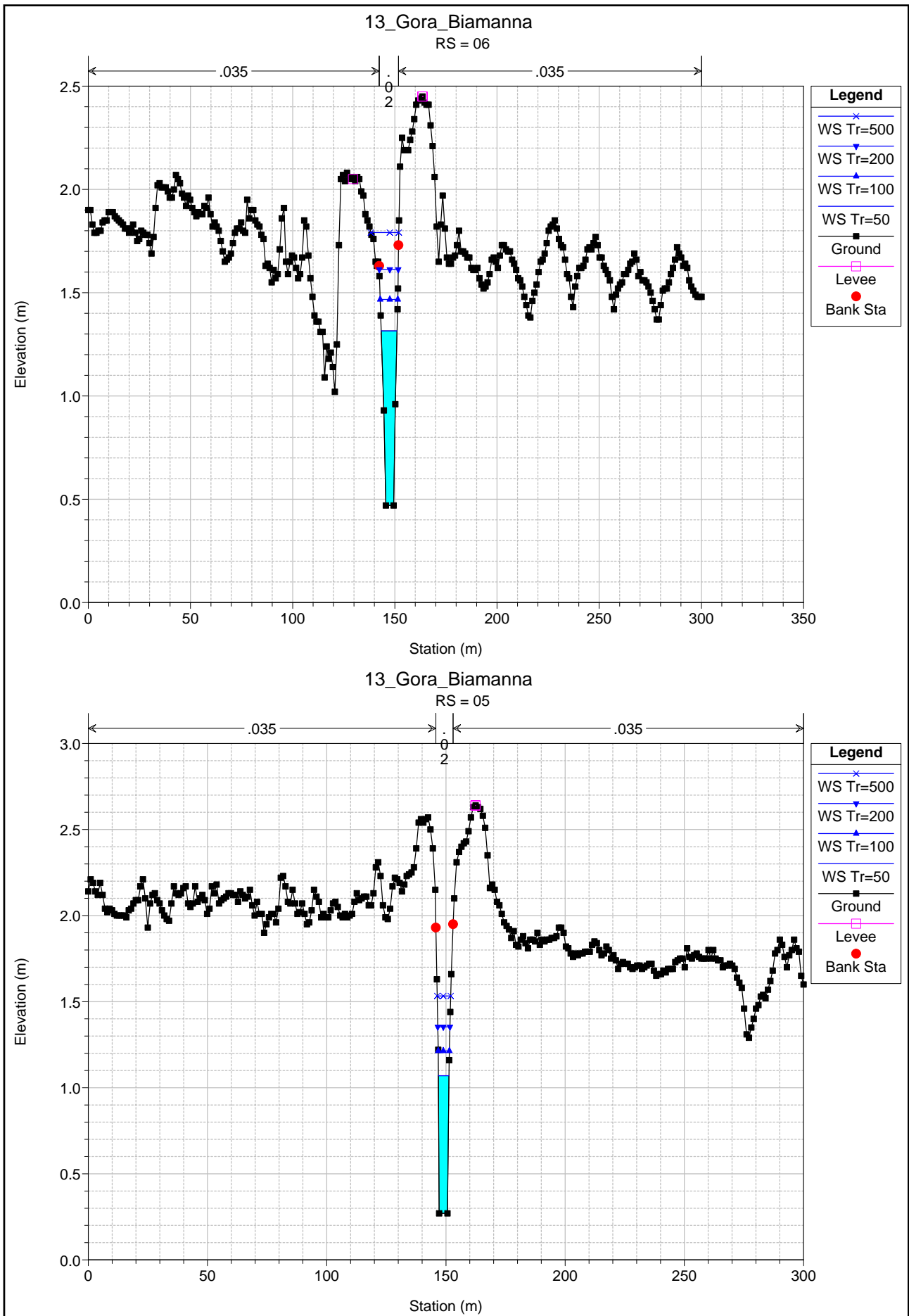


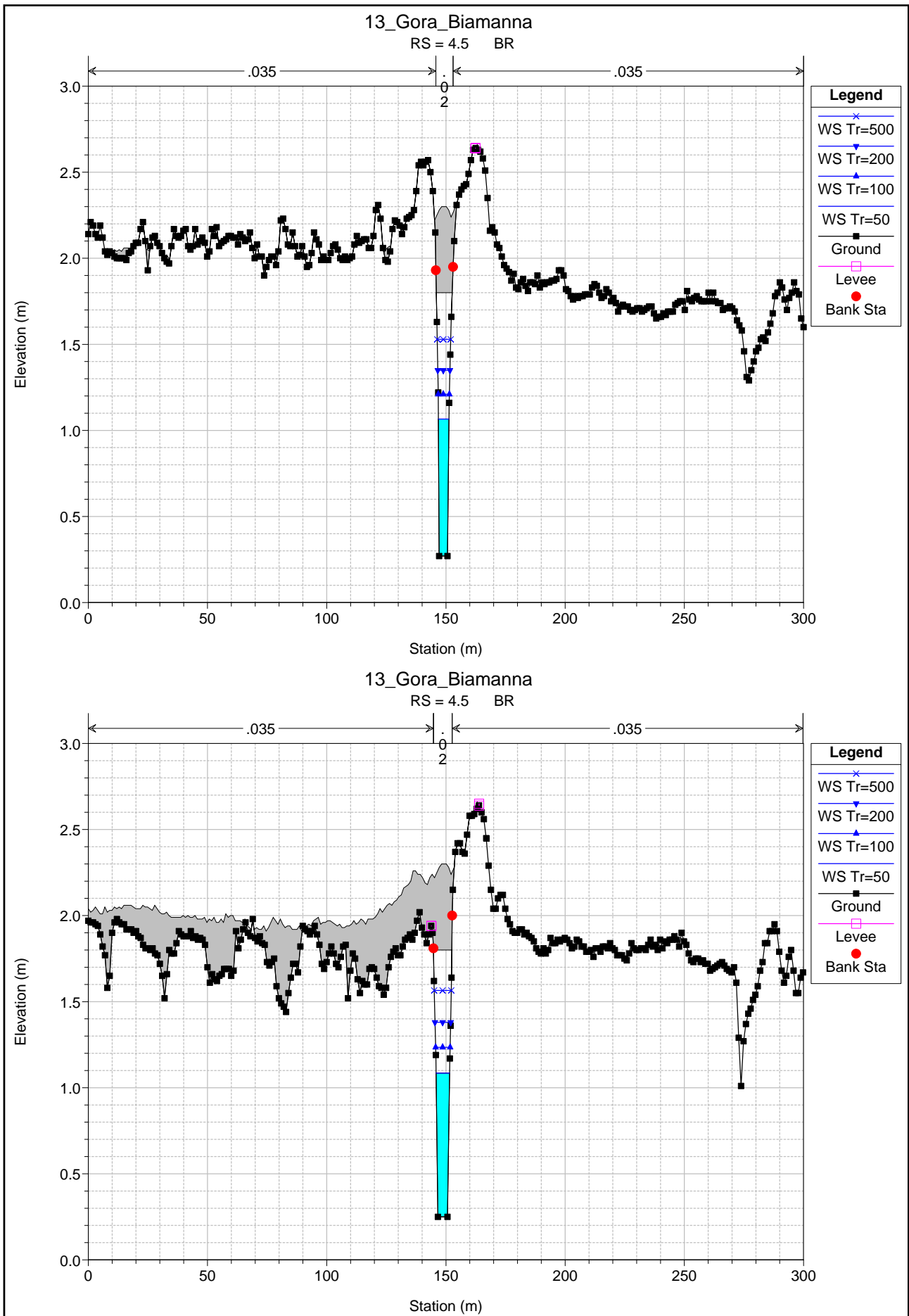


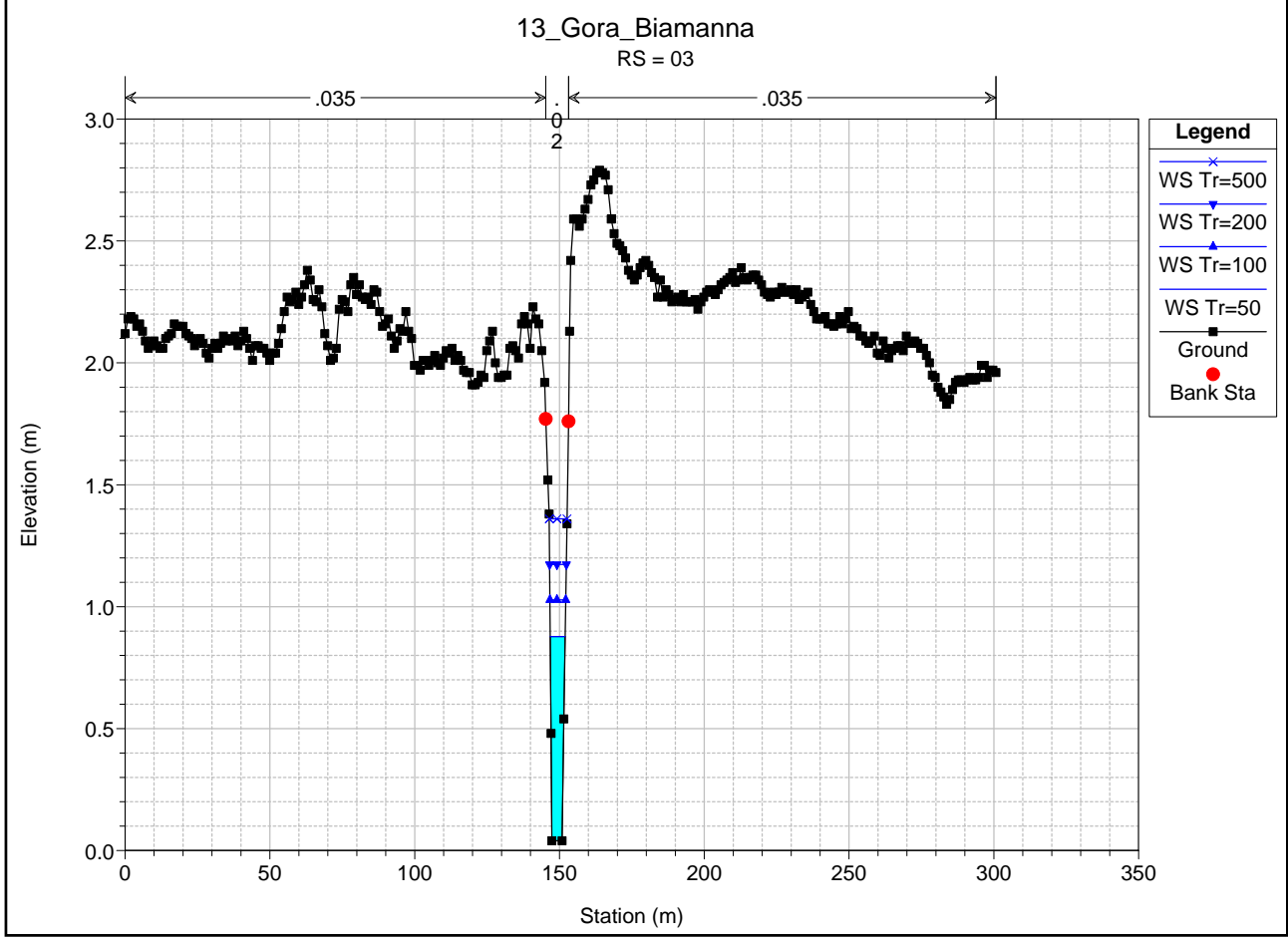
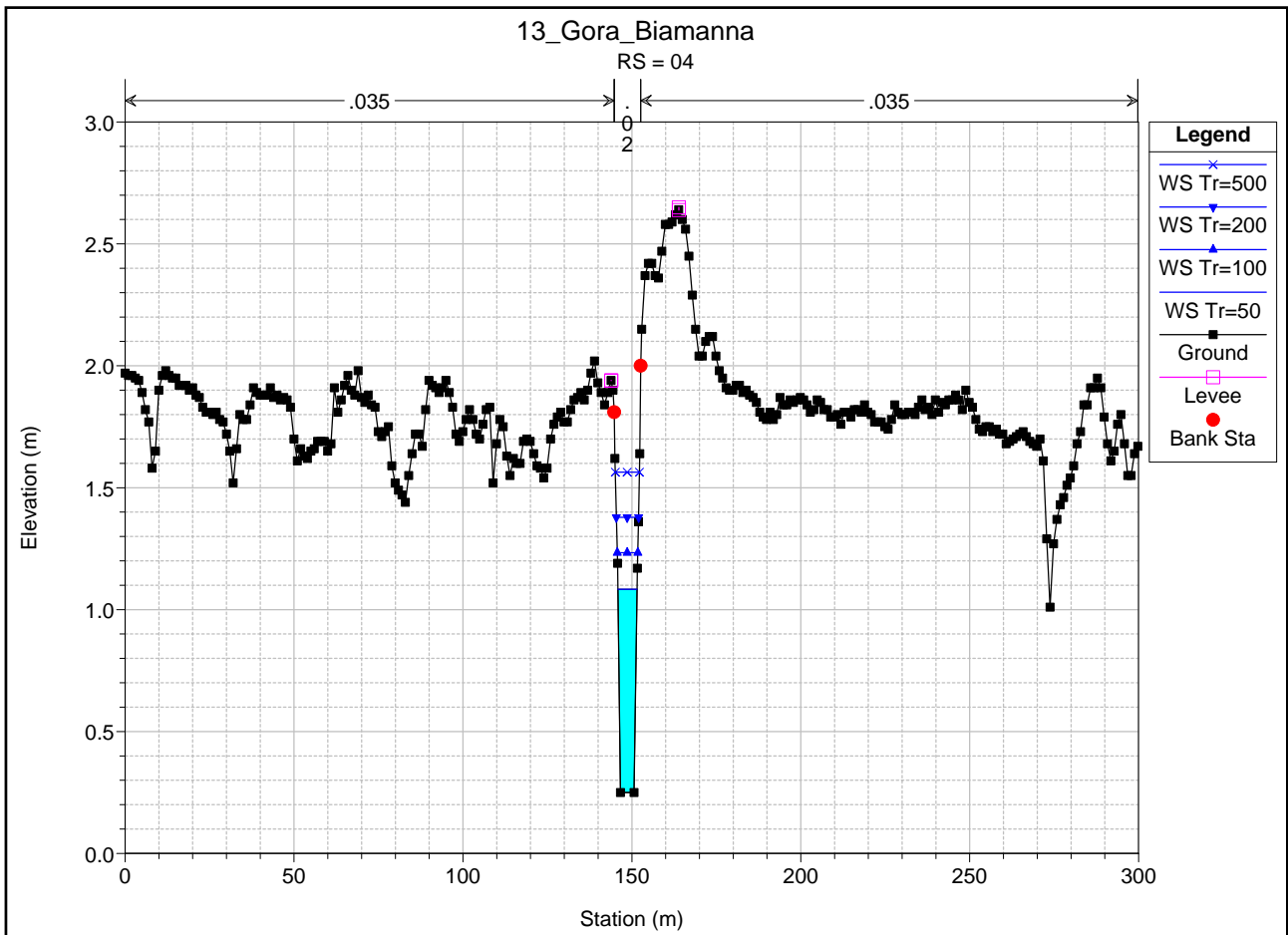


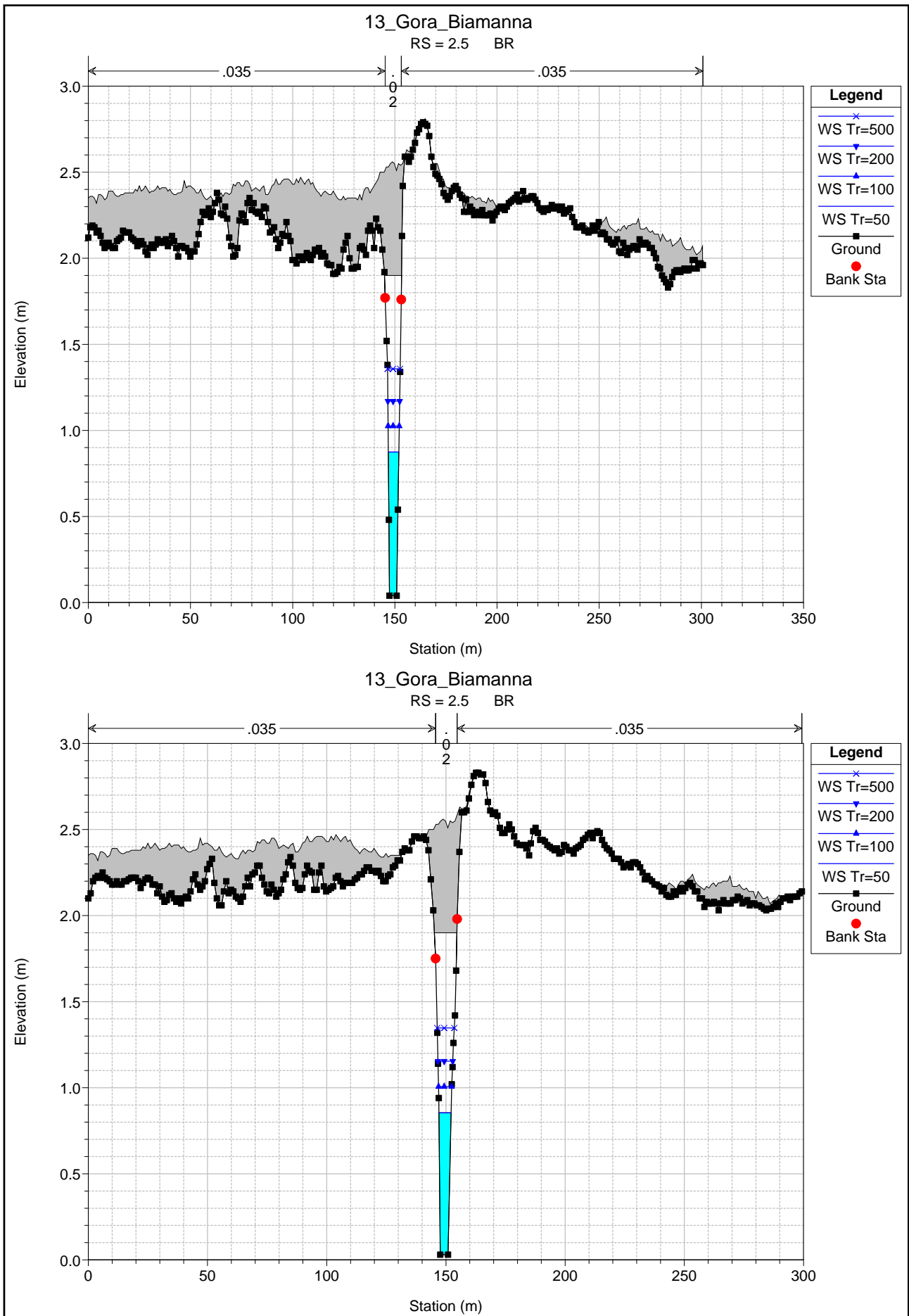


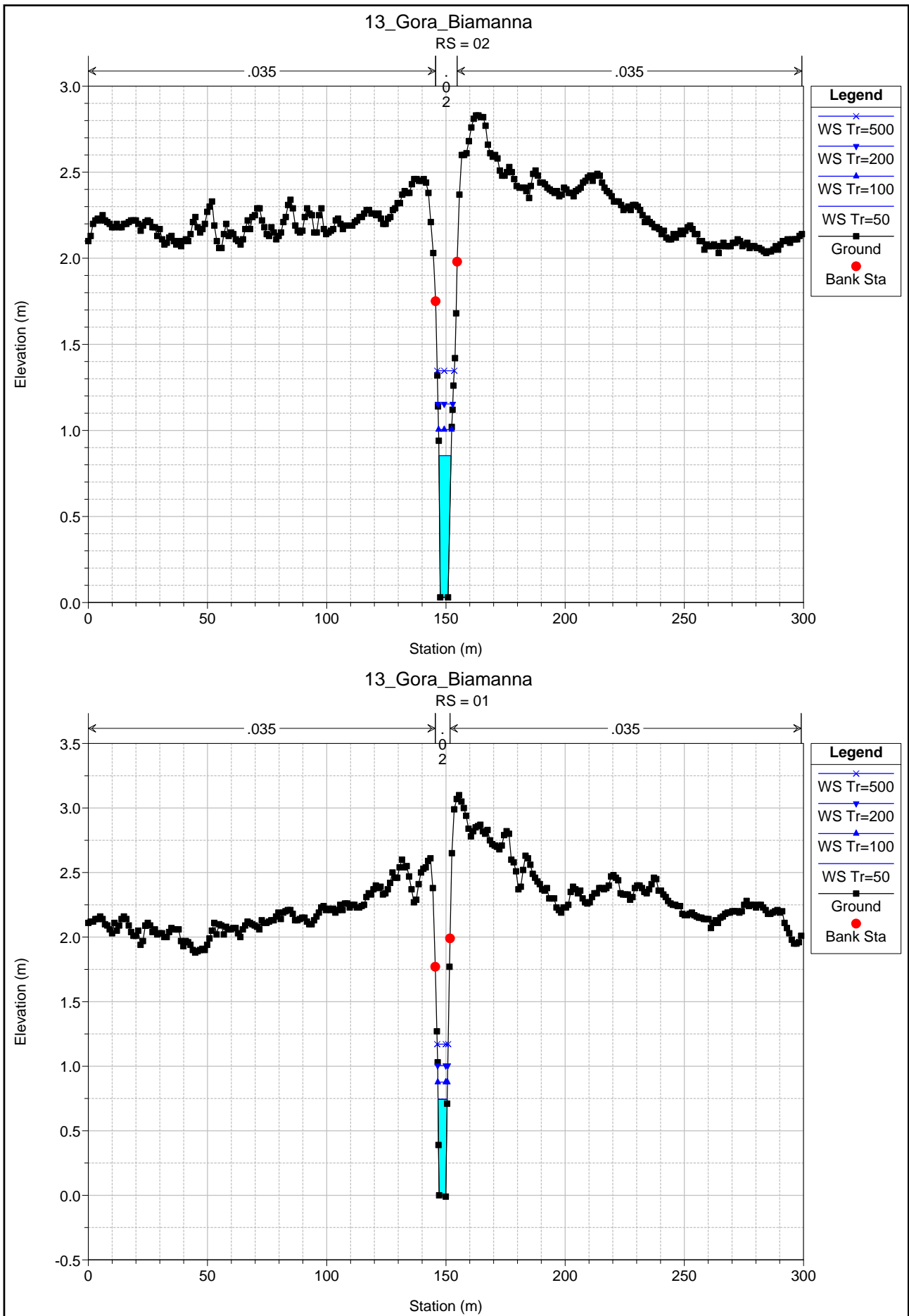






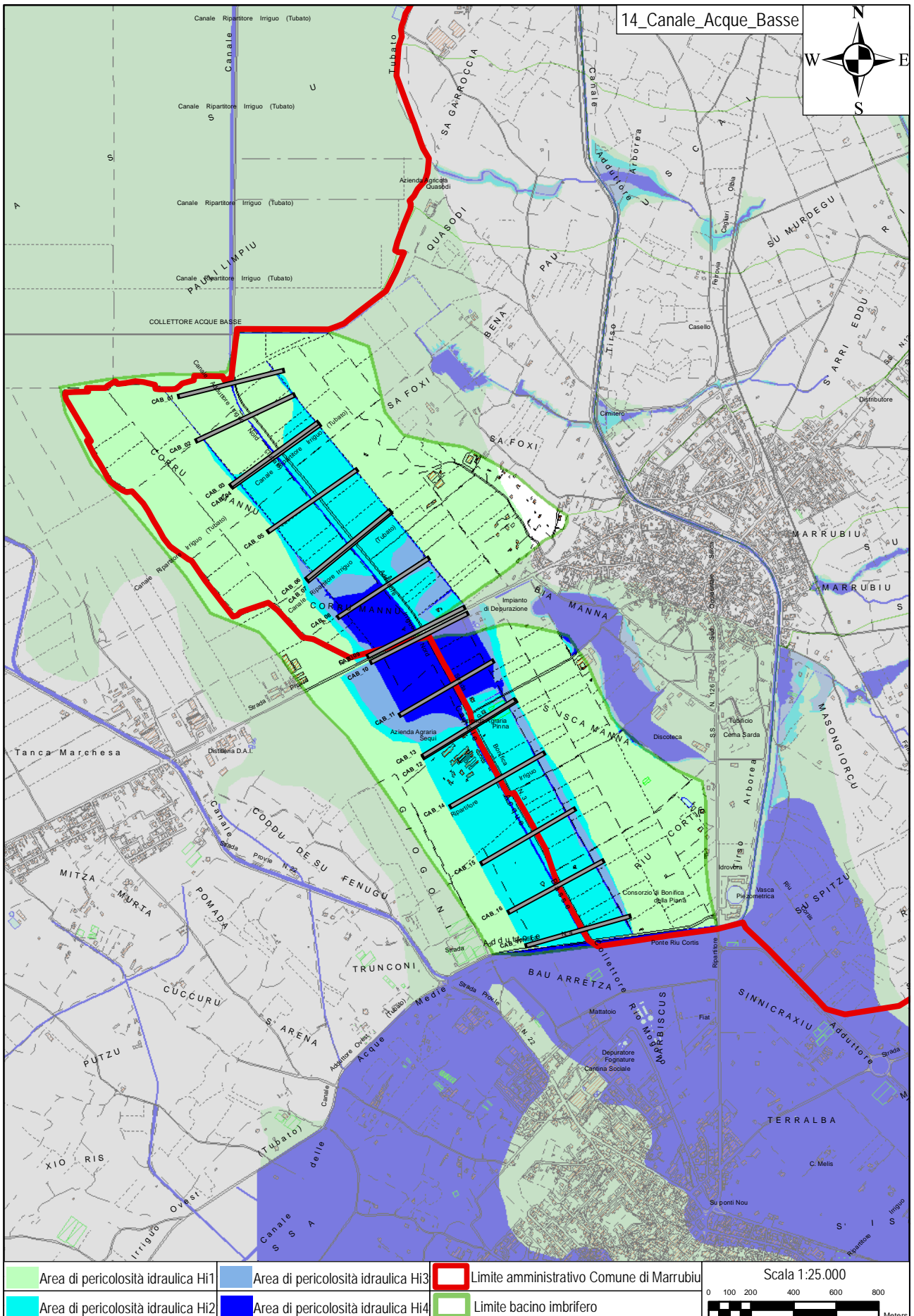






7. Canale delle Acque Basse

Inquadramento



Principali grandezze morfometriche

CANALE DELLE ACQUE BASSE – sub-bacino n. 14			
Superficie del bacino	S	4,10	[km ²]
Altitudine massima	H_{max}	6,5	[m slm]
Altitudine minima	H_{min}	- 2,2	[m slm]
Altitudine media	H_{med}	2,0	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	8,6	[m]
Pendenza media del bacino	p_m	4,3	[%]
Lunghezza dell'asta principale	L	3,16	[km]
Pendenza dell'asta principale	i	0,3	[%]
Quota della sezione di chiusura	H_{min}	- 2,1	[m slm]
Curve Number	CN	70,98	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	2,15	[m/s]
Ventura	t_c	4,14	[m/s]
Giandotti	t_c	7,23	[m/s]
Pasini	t_c	4,26	[m/s]
VAPI	t_c	1,82	[m/s]
Viparelli	t_c	0,88	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 17)	4,49	6,66	9,22	13,13	[m ³ /s]
TCEV (sez. 10)	9,00	12,60	16,67	22,75	[m ³ /s]

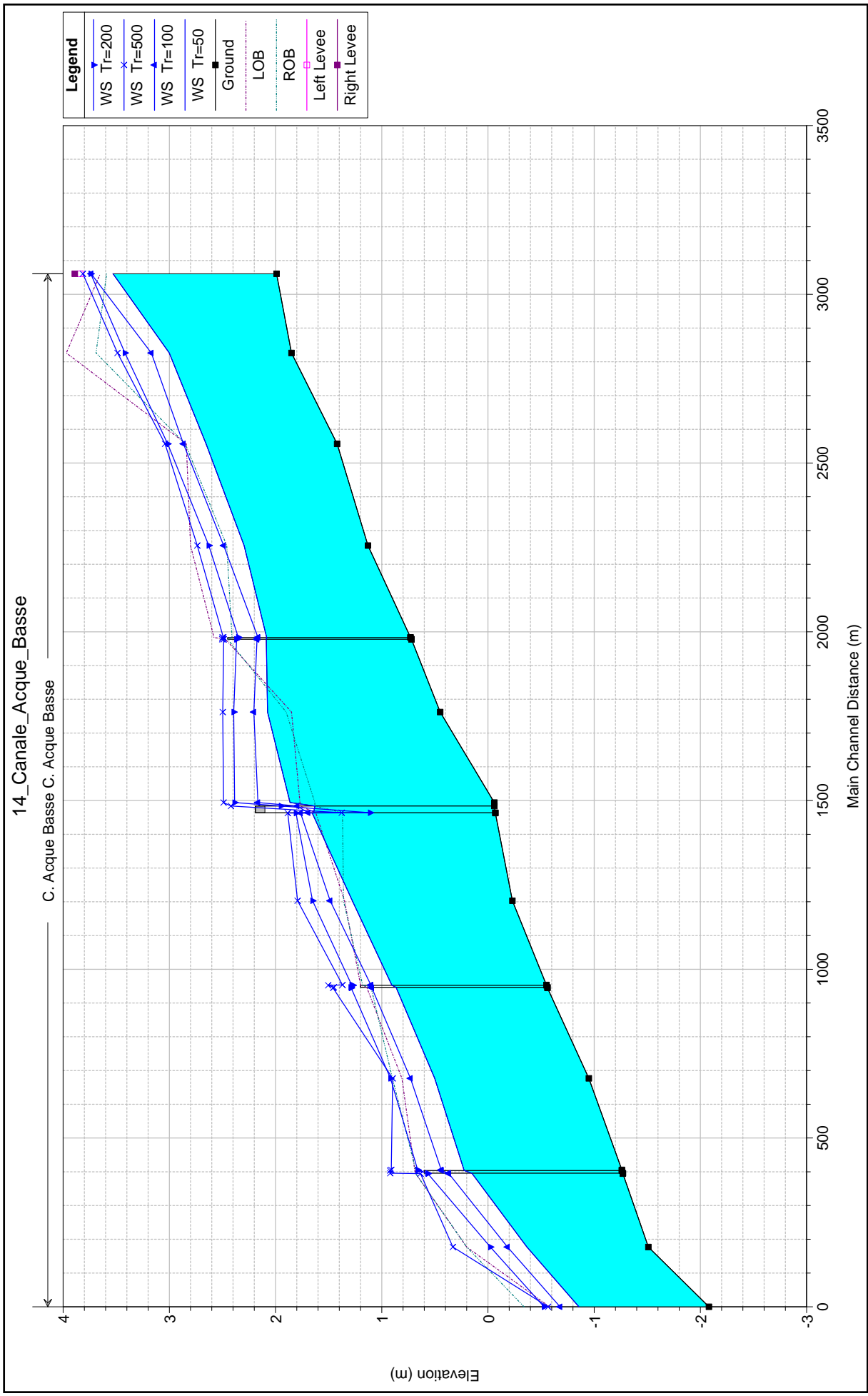
Tabella eventi di piena T = 50, 100, 200, 500

HEC-RAS Plan: 1 River: C. Acque Basse Reach: C. Acque Basse

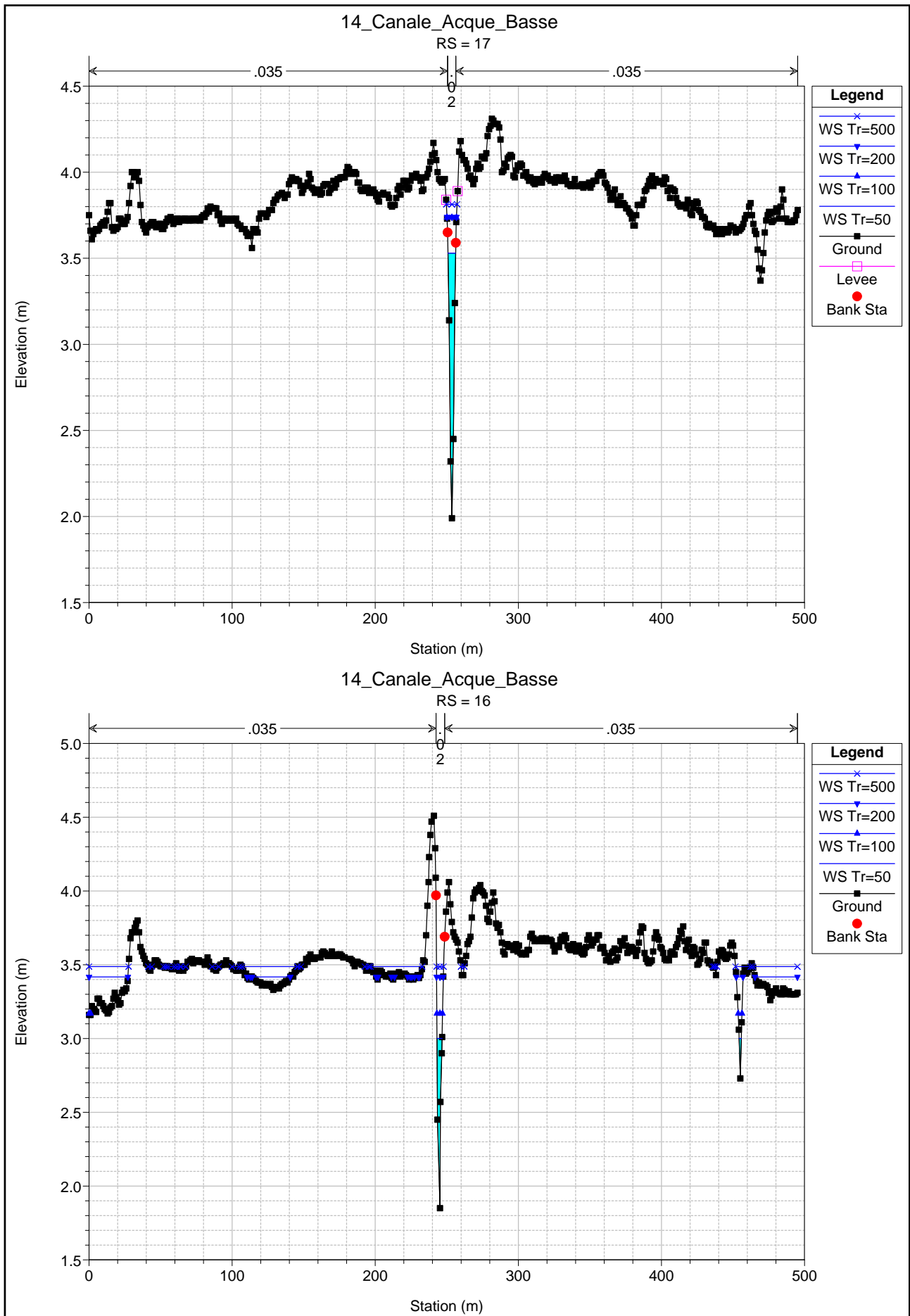
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
C. Acque Basse	17	Tr=50	4.49	1.99	3.53	2.95	3.58	0.000669	1.02	4.39	5.37	0.36
C. Acque Basse	17	Tr=100	6.66	1.99	3.74	3.14	3.81	0.000728	1.20	5.61	6.60	0.39
C. Acque Basse	17	Tr=200	9.22	1.99	3.74	3.33	3.88	0.001381	1.65	5.63	6.63	0.53
C. Acque Basse	17	Tr=500	13.13	1.99	3.81	3.57	4.06	0.002183	2.18	6.15	7.43	0.68
C. Acque Basse	16	Tr=50	4.49	1.85	3.00	2.97	3.23	0.005155	2.13	2.26	5.08	0.89
C. Acque Basse	16	Tr=100	6.66	1.85	3.17	3.14	3.43	0.005064	2.33	3.25	7.81	0.91
C. Acque Basse	16	Tr=200	9.22	1.85	3.42	3.42	3.50	0.001747	1.55	14.04	102.84	0.55
C. Acque Basse	16	Tr=500	13.13	1.85	3.49	3.47	3.55	0.001705	1.56	23.94	183.96	0.55
C. Acque Basse	15	Tr=50	4.49	1.42	2.65		2.71	0.000854	1.07	4.32	8.46	0.41
C. Acque Basse	15	Tr=100	6.66	1.42	2.87		2.93	0.000799	1.15	6.56	12.90	0.41
C. Acque Basse	15	Tr=200	9.22	1.42	3.02	2.57	3.08	0.000727	1.23	13.58	119.69	0.40
C. Acque Basse	15	Tr=500	13.13	1.42	3.04	2.80	3.16	0.001241	1.64	17.32	172.42	0.53
C. Acque Basse	14	Tr=50	4.49	1.13	2.30		2.39	0.001379	1.34	3.36	4.90	0.51
C. Acque Basse	14	Tr=100	6.66	1.13	2.49		2.61	0.001487	1.53	4.36	5.54	0.55
C. Acque Basse	14	Tr=200	9.22	1.13	2.63	2.33	2.77	0.001554	1.69	9.00	109.56	0.57
C. Acque Basse	14	Tr=500	13.13	1.13	2.74	2.74	2.81	0.001013	1.45	28.88	221.36	0.47
C. Acque Basse	13	Tr=50	4.49	0.73	2.08	1.51	2.14	0.000610	1.02	4.41	5.00	0.35
C. Acque Basse	13	Tr=100	6.66	0.73	2.17	1.69	2.26	0.001051	1.38	4.84	6.48	0.46
C. Acque Basse	13	Tr=200	9.22	0.73	2.35	1.86	2.43	0.000906	1.36	13.95	140.58	0.43
C. Acque Basse	13	Tr=500	13.13	0.73	2.49	2.41	2.52	0.000464	1.03	38.99	199.62	0.31
C. Acque Basse	12.5		Bridge									
C. Acque Basse	12	Tr=50	4.49	0.72	2.09		2.13	0.000491	0.91	4.91	5.84	0.32
C. Acque Basse	12	Tr=100	6.66	0.72	2.17	1.67	2.25	0.000823	1.23	5.44	6.11	0.41
C. Acque Basse	12	Tr=200	9.22	0.72	2.37	1.83	2.42	0.000592	1.12	19.34	166.96	0.36
C. Acque Basse	12	Tr=500	13.13	0.72	2.49		2.51	0.000356	0.91	45.22	234.27	0.28
C. Acque Basse	11	Tr=50	4.49	0.45	2.08		2.08	0.000090	0.44	37.23	284.75	0.14
C. Acque Basse	11	Tr=100	6.66	0.45	2.20		2.21	0.000039	0.31	83.78	428.64	0.09
C. Acque Basse	11	Tr=200	9.22	0.45	2.39		2.39	0.000011	0.19	170.02	470.71	0.05
C. Acque Basse	11	Tr=500	13.13	0.45	2.50		2.50	0.000011	0.19	219.00	479.70	0.05
C. Acque Basse	10	Tr=50	9.00	-0.06	1.86	1.65	1.97	0.001637	1.53	7.94	33.92	0.56
C. Acque Basse	10	Tr=100	12.60	-0.06	2.17	1.80	2.18	0.000228	0.71	56.82	292.99	0.22
C. Acque Basse	10	Tr=200	16.67	-0.06	2.38	2.04	2.39	0.000053	0.39	140.95	446.50	0.11
C. Acque Basse	10	Tr=500	22.75	-0.06	2.49	2.08	2.49	0.000045	0.38	188.52	469.72	0.10
C. Acque Basse	9.5		Bridge									
C. Acque Basse	09	Tr=50	9.00	-0.07	1.66	1.07	1.71	0.000576	1.13	14.24	124.16	0.36
C. Acque Basse	09	Tr=100	12.60	-0.07	1.76		1.80	0.000445	1.07	34.45	221.88	0.32
C. Acque Basse	09	Tr=200	16.67	-0.07	1.81		1.85	0.000514	1.18	44.32	233.14	0.35
C. Acque Basse	09	Tr=500	22.75	-0.07	1.88		1.92	0.000458	1.16	63.23	256.18	0.33
C. Acque Basse	08	Tr=50	9.00	-0.23	1.28	1.13	1.44	0.002266	1.84	6.10	18.99	0.67
C. Acque Basse	08	Tr=100	12.60	-0.23	1.49	1.35	1.60	0.001476	1.69	13.95	81.40	0.56
C. Acque Basse	08	Tr=200	16.67	-0.23	1.65		1.70	0.000675	1.28	39.48	210.45	0.39
C. Acque Basse	08	Tr=500	22.75	-0.23	1.79		1.81	0.000342	0.99	84.66	442.02	0.28
C. Acque Basse	07	Tr=50	9.00	-0.55	0.91	0.47	1.03	0.001200	1.53	6.01	8.43	0.50
C. Acque Basse	07	Tr=100	12.60	-0.55	1.10	0.66	1.25	0.001329	1.73	8.06	12.33	0.54
C. Acque Basse	07	Tr=200	16.67	-0.55	1.28	0.87	1.45	0.001335	1.88	10.62	16.07	0.55
C. Acque Basse	07	Tr=500	22.75	-0.55	1.37	1.15	1.62	0.001857	2.32	14.54	112.74	0.65
C. Acque Basse	6.5		Bridge									
C. Acque Basse	06	Tr=50	9.00	-0.56	0.86		1.01	0.001992	1.76	5.96	10.91	0.64
C. Acque Basse	06	Tr=100	12.60	-0.56	1.09		1.24	0.001657	1.77	8.98	15.34	0.59
C. Acque Basse	06	Tr=200	16.67	-0.56	1.29	0.99	1.41	0.001253	1.74	20.62	142.30	0.53
C. Acque Basse	06	Tr=500	22.75	-0.56	1.46	1.12	1.50	0.000536	1.25	58.71	263.98	0.36
C. Acque Basse	05	Tr=50	9.00	-0.95	0.50		0.61	0.001104	1.47	6.14	6.61	0.49
C. Acque Basse	05	Tr=100	12.60	-0.95	0.73		0.86	0.001172	1.63	7.83	10.26	0.51
C. Acque Basse	05	Tr=200	16.67	-0.95	0.92	0.42	1.08	0.001219	1.78	10.20	16.43	0.53
C. Acque Basse	05	Tr=500	22.75	-0.95	0.90	0.66	1.21	0.002421	2.48	9.88	15.00	0.74
C. Acque Basse	04	Tr=50	9.00	-1.26	0.23	-0.25	0.32	0.000987	1.39	6.46	7.18	0.46
C. Acque Basse	04	Tr=100	12.60	-1.26	0.44	-0.06	0.56	0.001052	1.54	9.02	15.25	0.49
C. Acque Basse	04	Tr=200	16.67	-1.26	0.66	0.12	0.77	0.000939	1.54	15.65	60.06	0.47
C. Acque Basse	04	Tr=500	22.75	-1.26	0.91	0.42	0.94	0.000312	1.01	82.12	454.16	0.28
C. Acque Basse	3.5		Bridge									
C. Acque Basse	03	Tr=50	9.00	-1.27	0.15		0.30	0.001835	1.77	5.52	8.51	0.61
C. Acque Basse	03	Tr=100	12.60	-1.27	0.37		0.54	0.001786	1.88	7.70	12.06	0.62
C. Acque Basse	03	Tr=200	16.67	-1.27	0.57	0.27	0.74	0.001730	1.96	10.57	23.35	0.62
C. Acque Basse	03	Tr=500	22.75	-1.27	0.64	0.49	0.90	0.002566	2.43	14.69	89.02	0.75

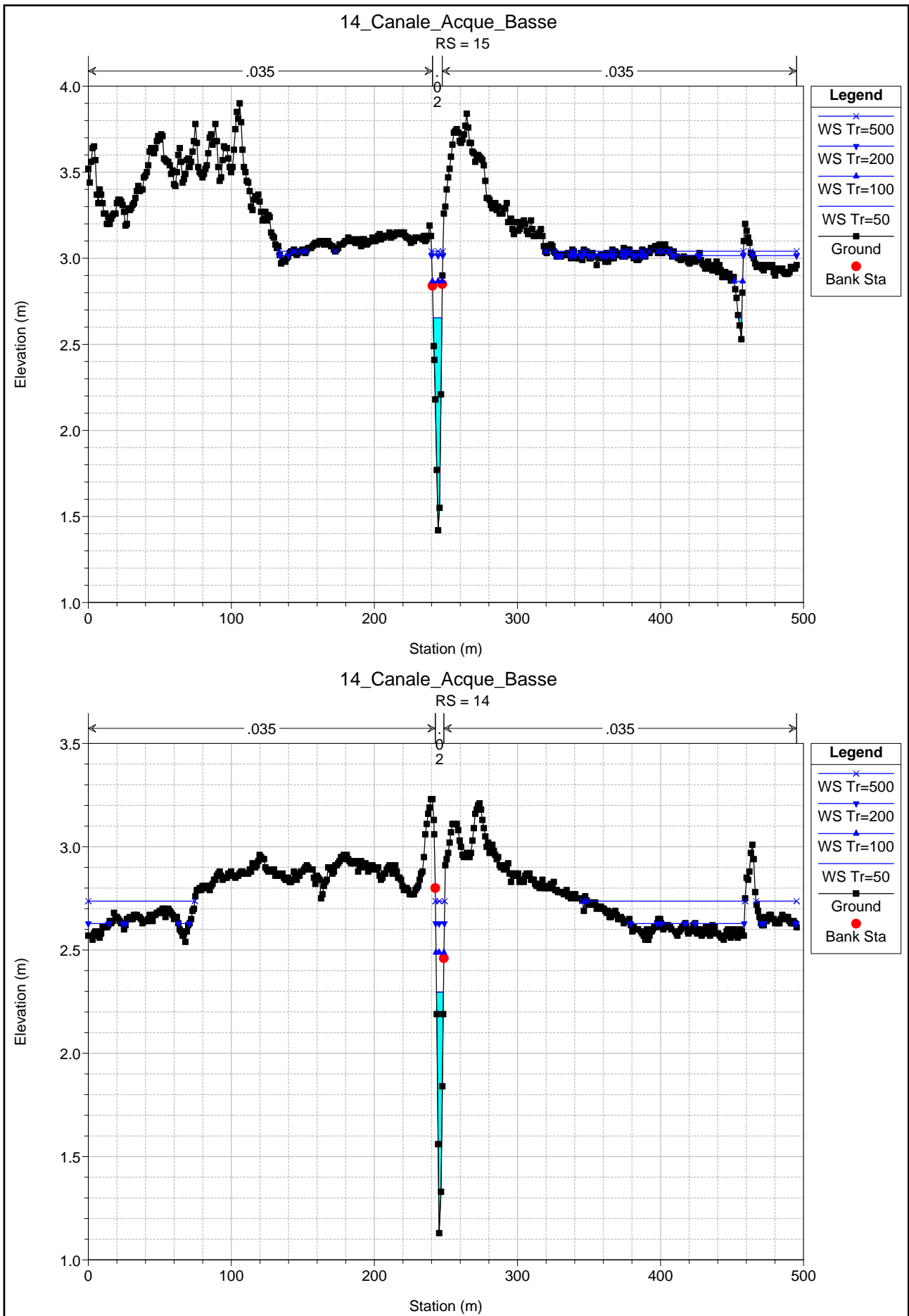
HEC-RAS Plan: 1 River: C. Acque Basse Reach: C. Acque Basse (Continued)

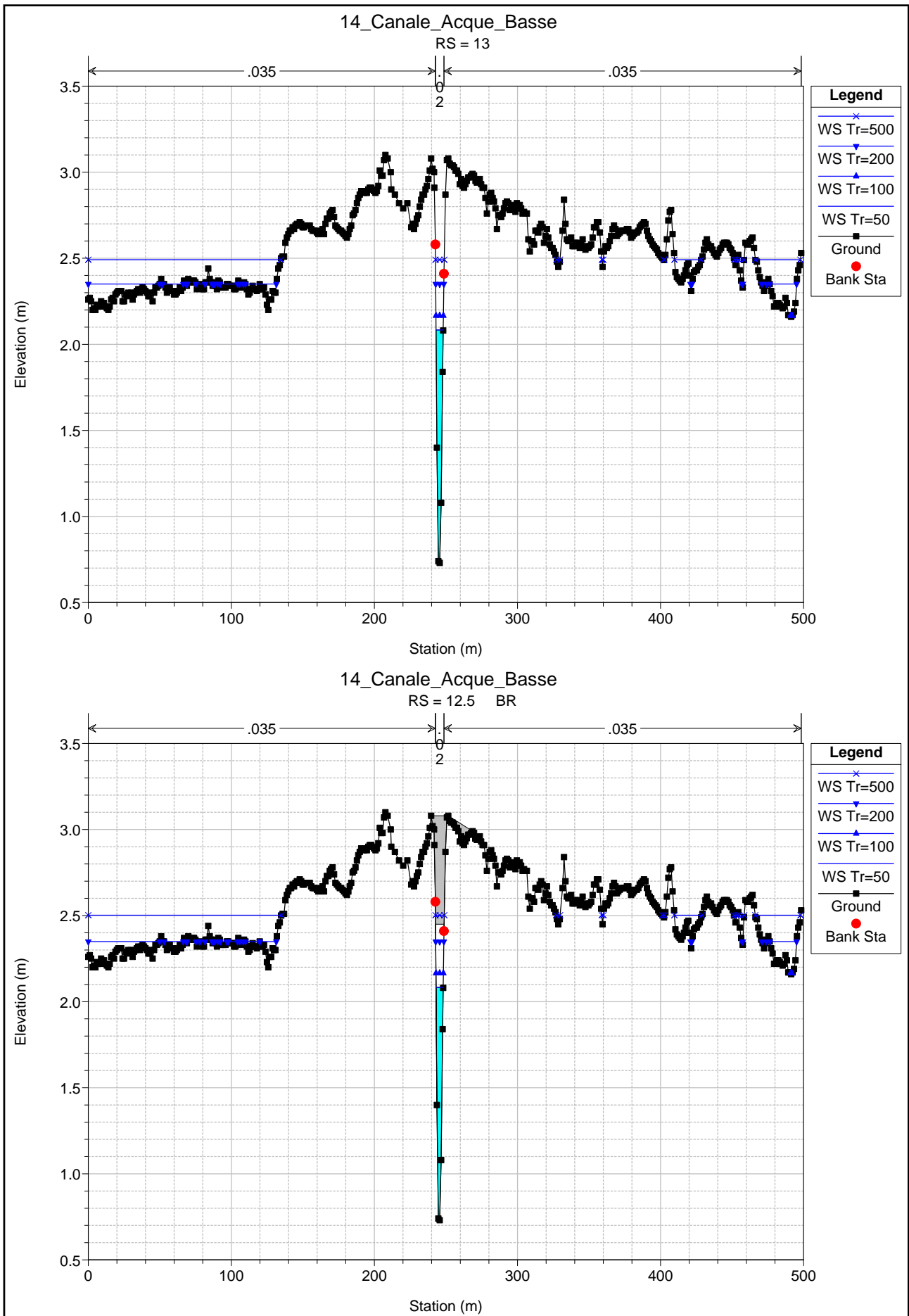
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
C. Acque Basse	02	Tr=50	9.00	-1.51	-0.37		-0.17	0.002554	1.98	4.54	6.02	0.72
C. Acque Basse	02	Tr=100	12.60	-1.51	-0.18	-0.36	0.06	0.002678	2.20	5.97	9.07	0.75
C. Acque Basse	02	Tr=200	16.67	-1.51	-0.02	-0.15	0.26	0.002813	2.39	7.60	11.35	0.78
C. Acque Basse	02	Tr=500	22.75	-1.51	0.33	0.33	0.48	0.001313	1.90	26.27	167.37	0.56
C. Acque Basse	01	Tr=50	9.00	-2.08	-0.86	-0.99	-0.66	0.003002	1.97	4.56	6.97	0.78
C. Acque Basse	01	Tr=100	12.60	-2.08	-0.68	-0.81	-0.45	0.003004	2.14	5.90	9.21	0.80
C. Acque Basse	01	Tr=200	16.67	-2.08	-0.53	-0.64	-0.26	0.003005	2.31	7.60	18.55	0.81
C. Acque Basse	01	Tr=500	22.75	-2.08	-0.57	-0.22	-0.01	0.006517	3.32	7.06	11.40	1.19

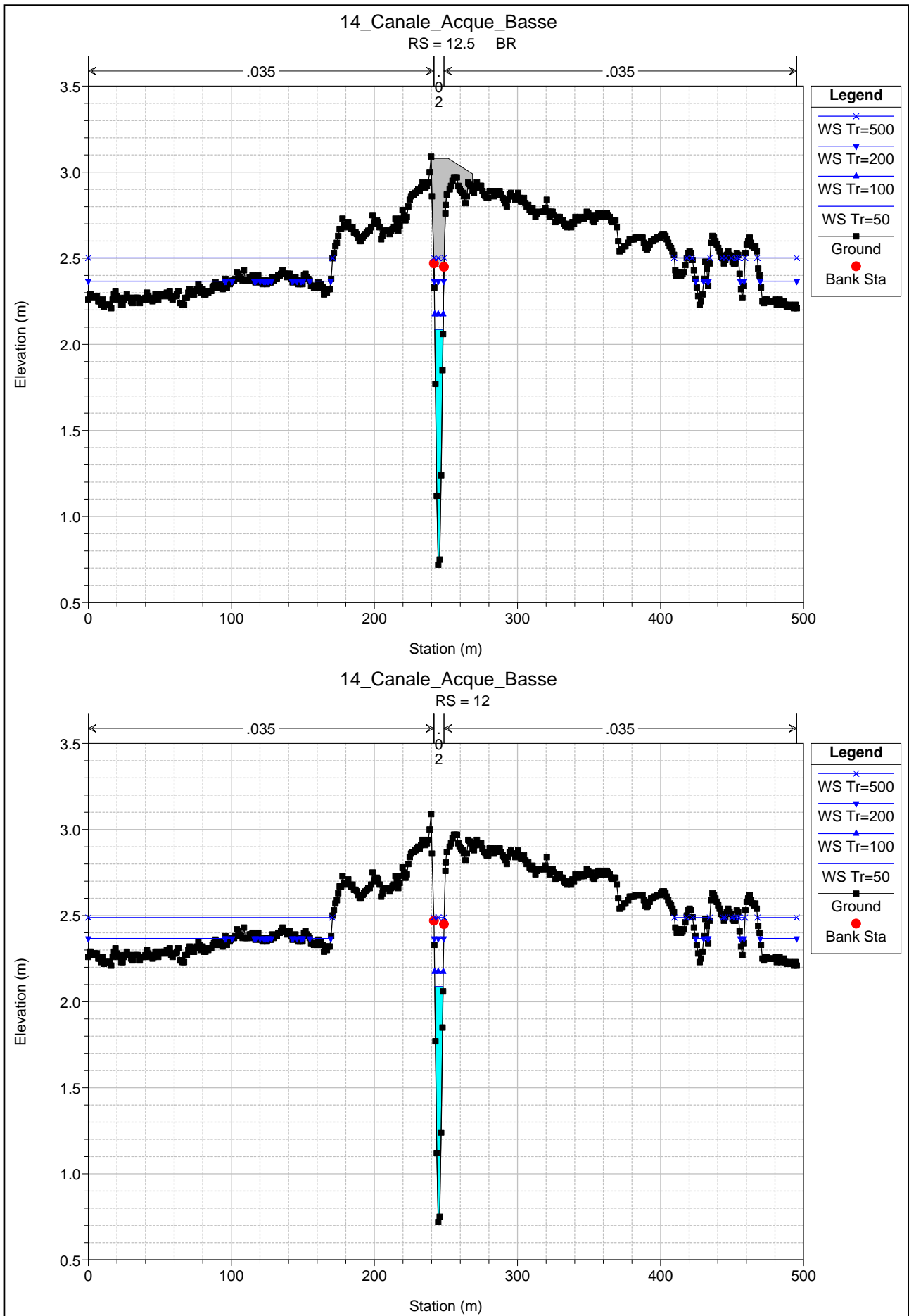


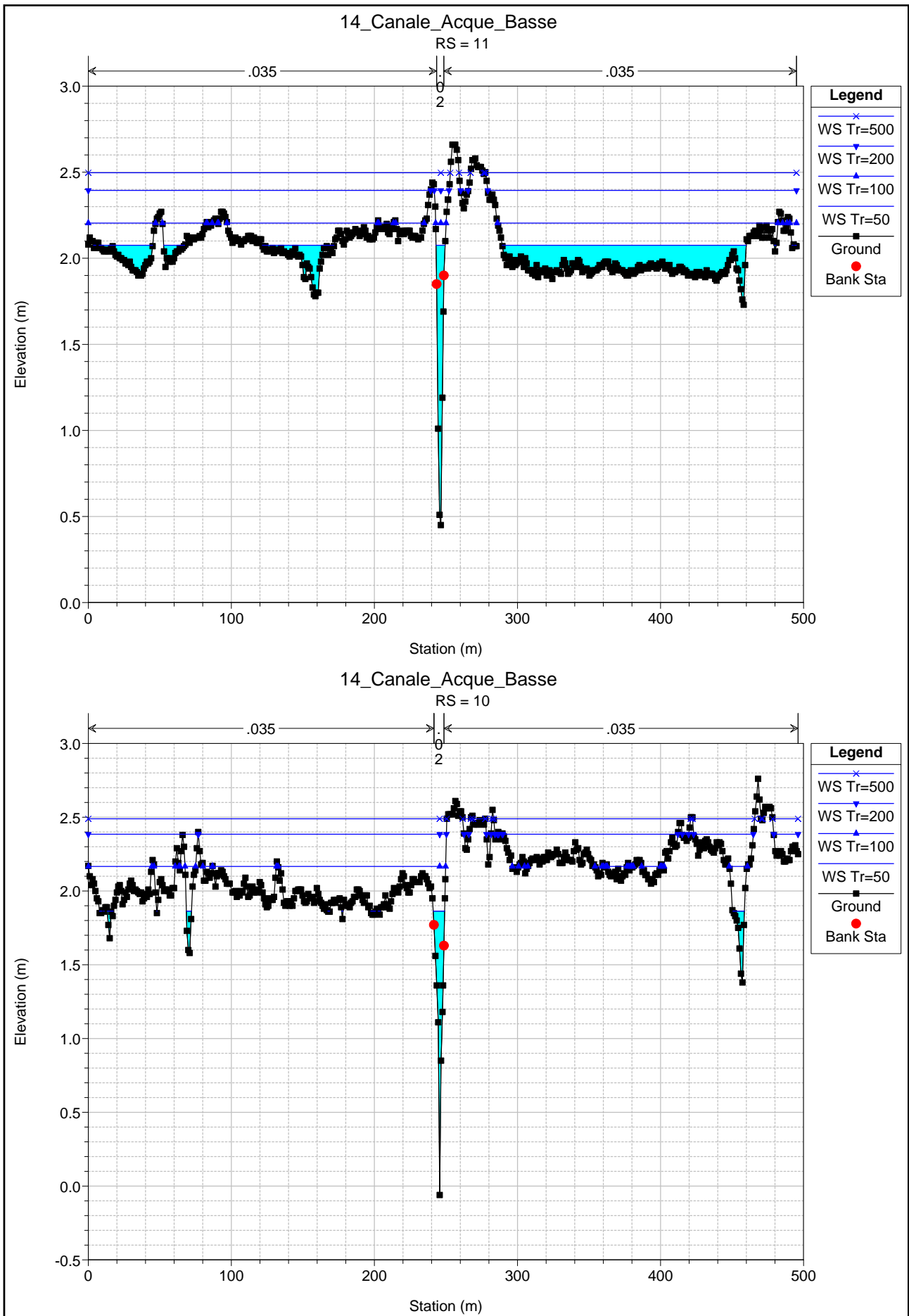
Sezioni fluviali relative ai tempi di ritorno considerati

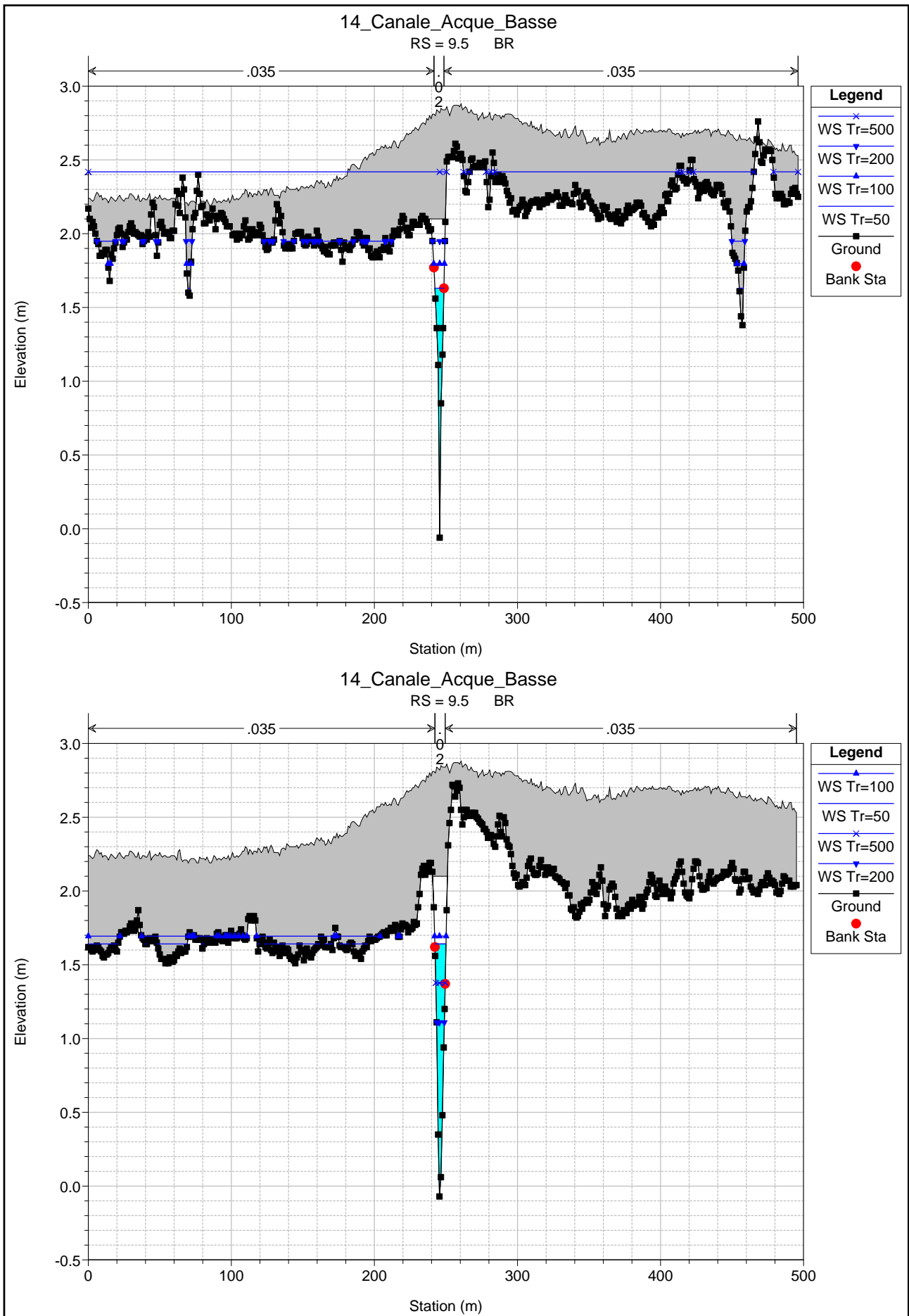


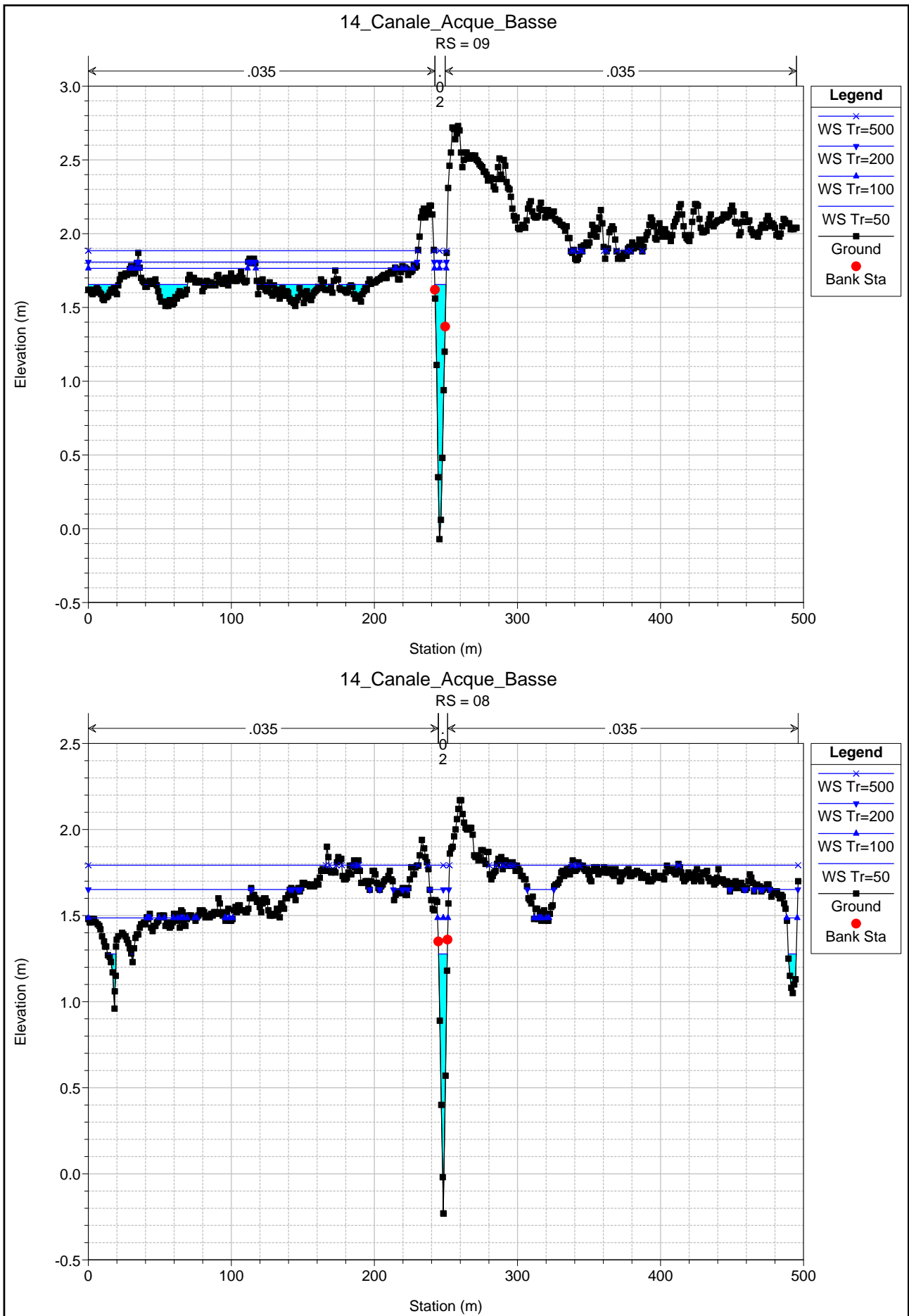


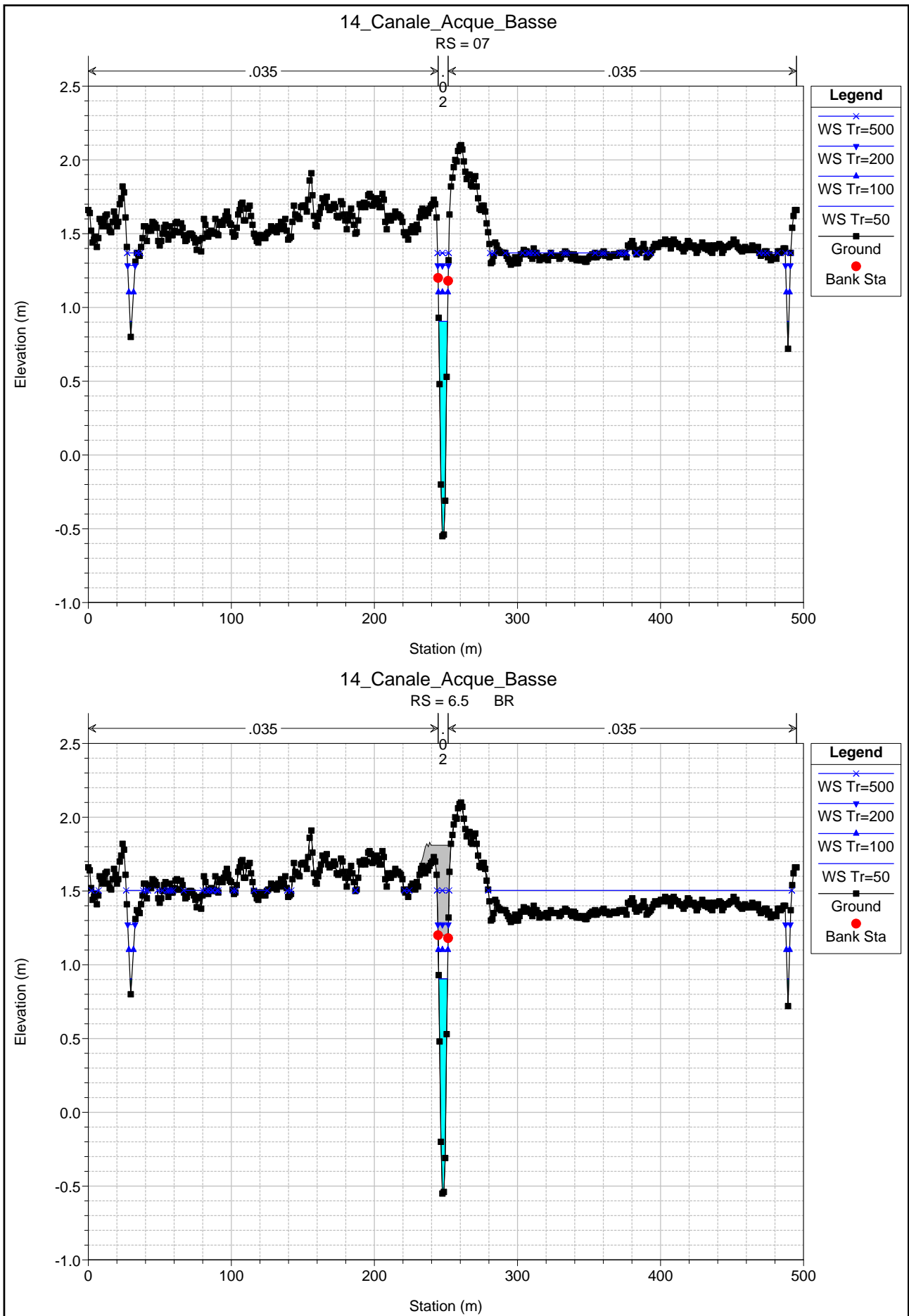


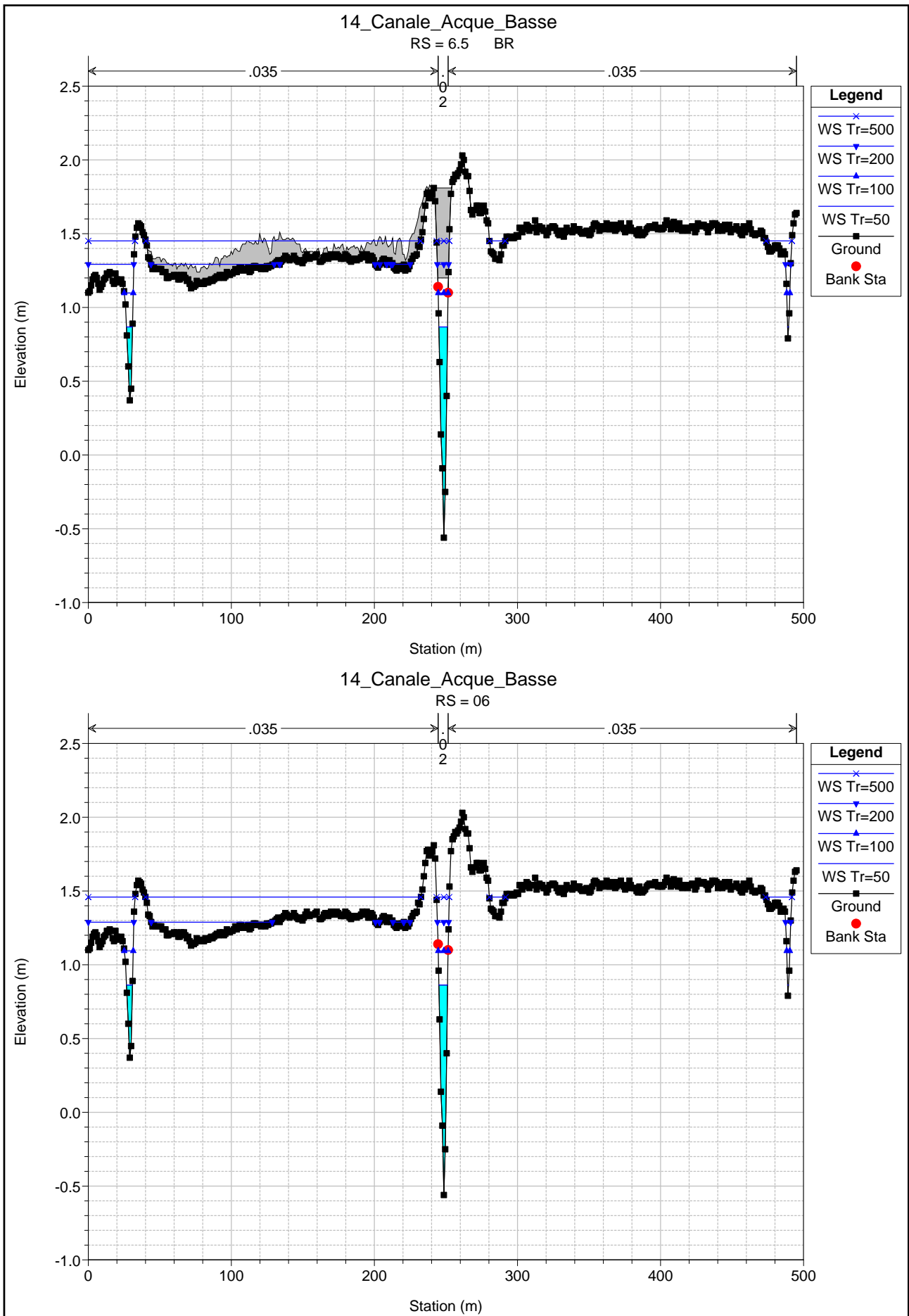


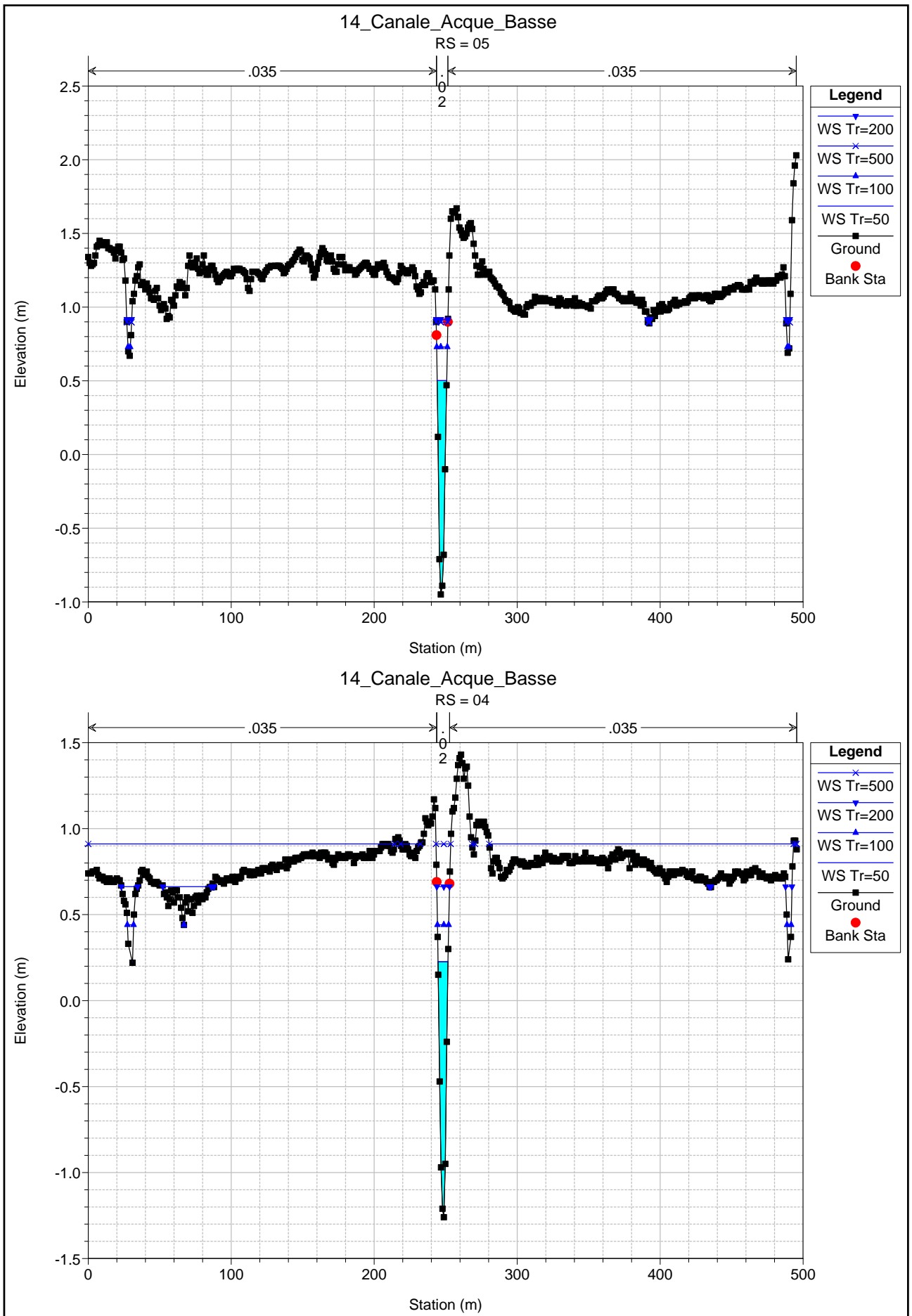


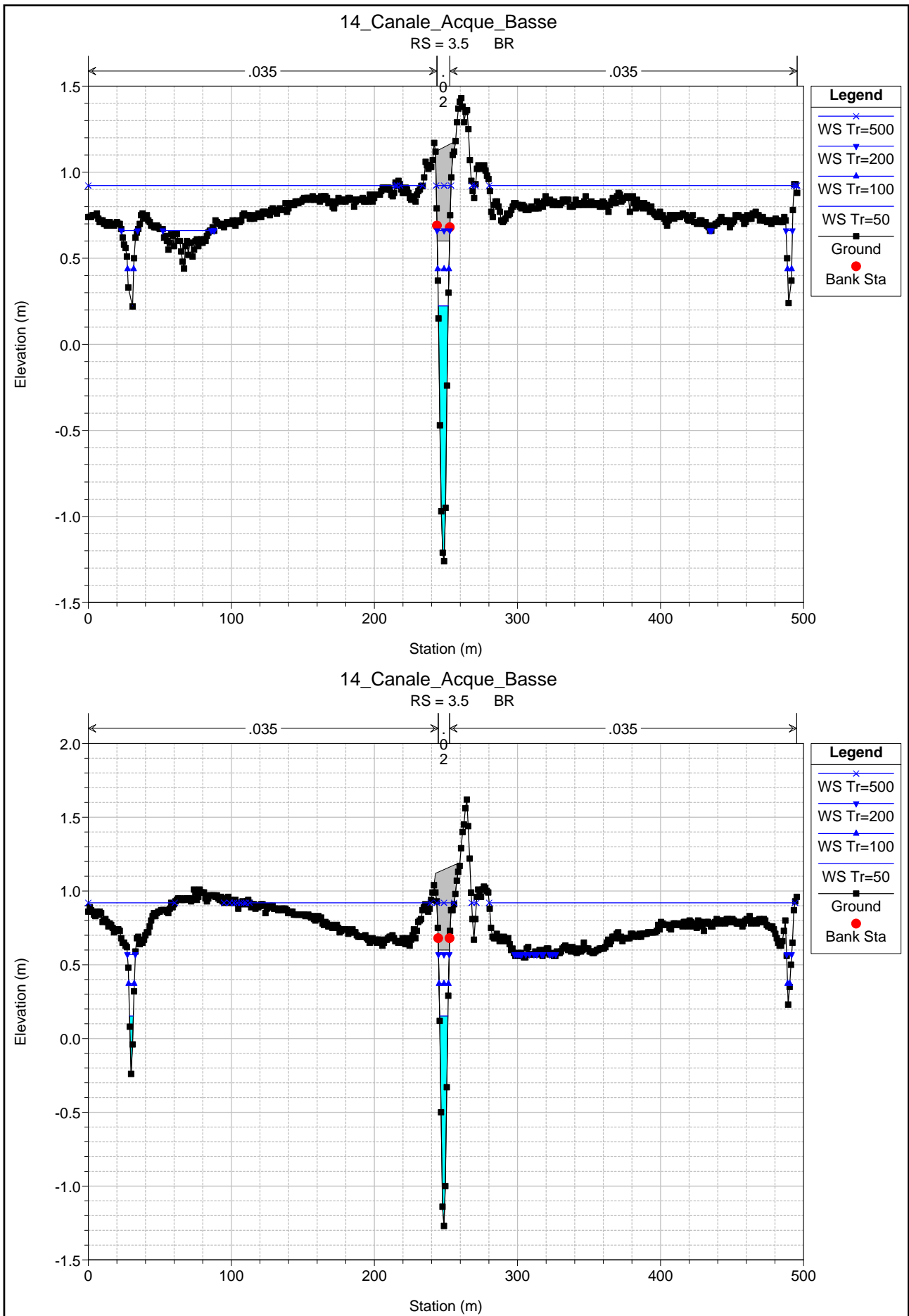


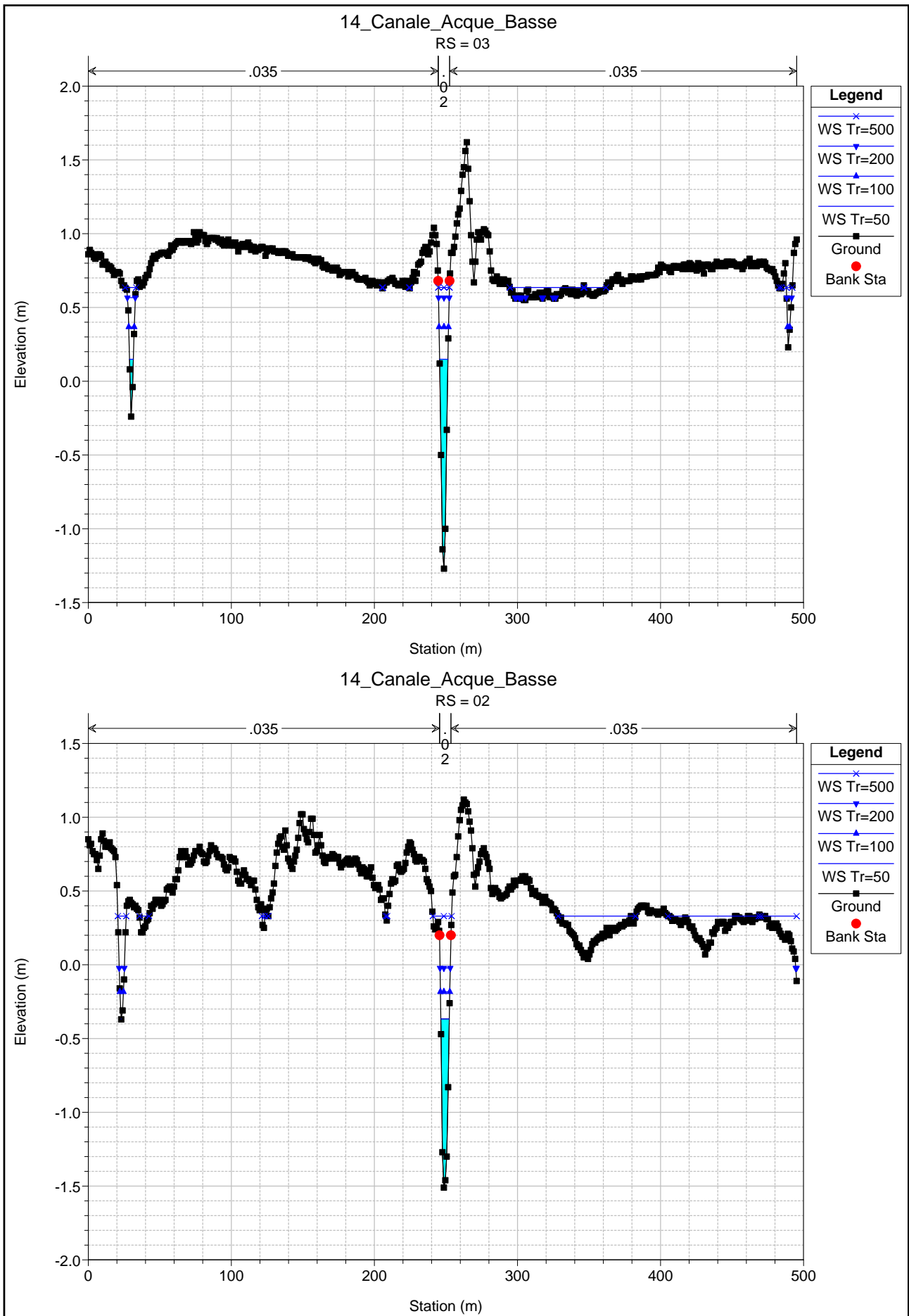


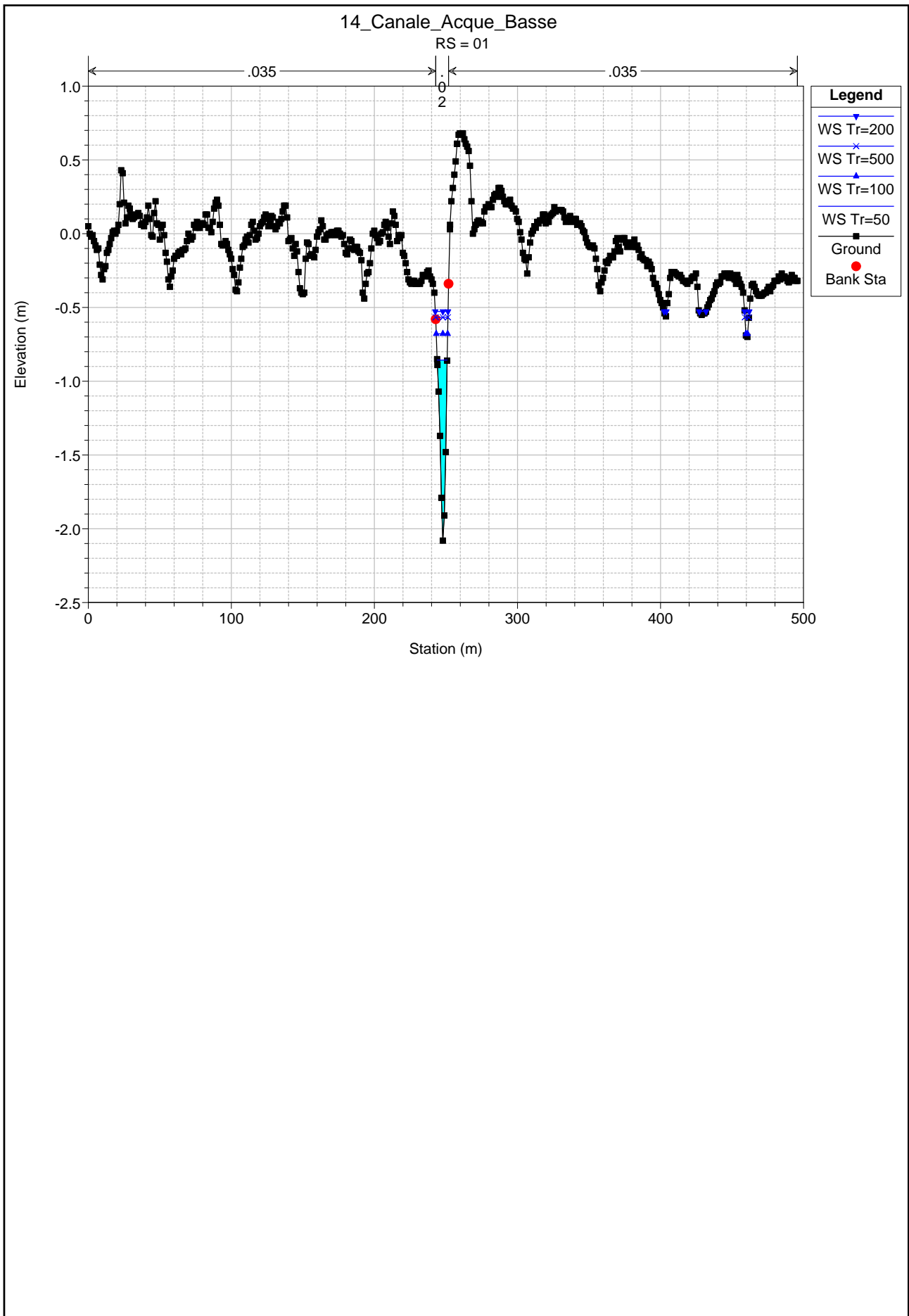






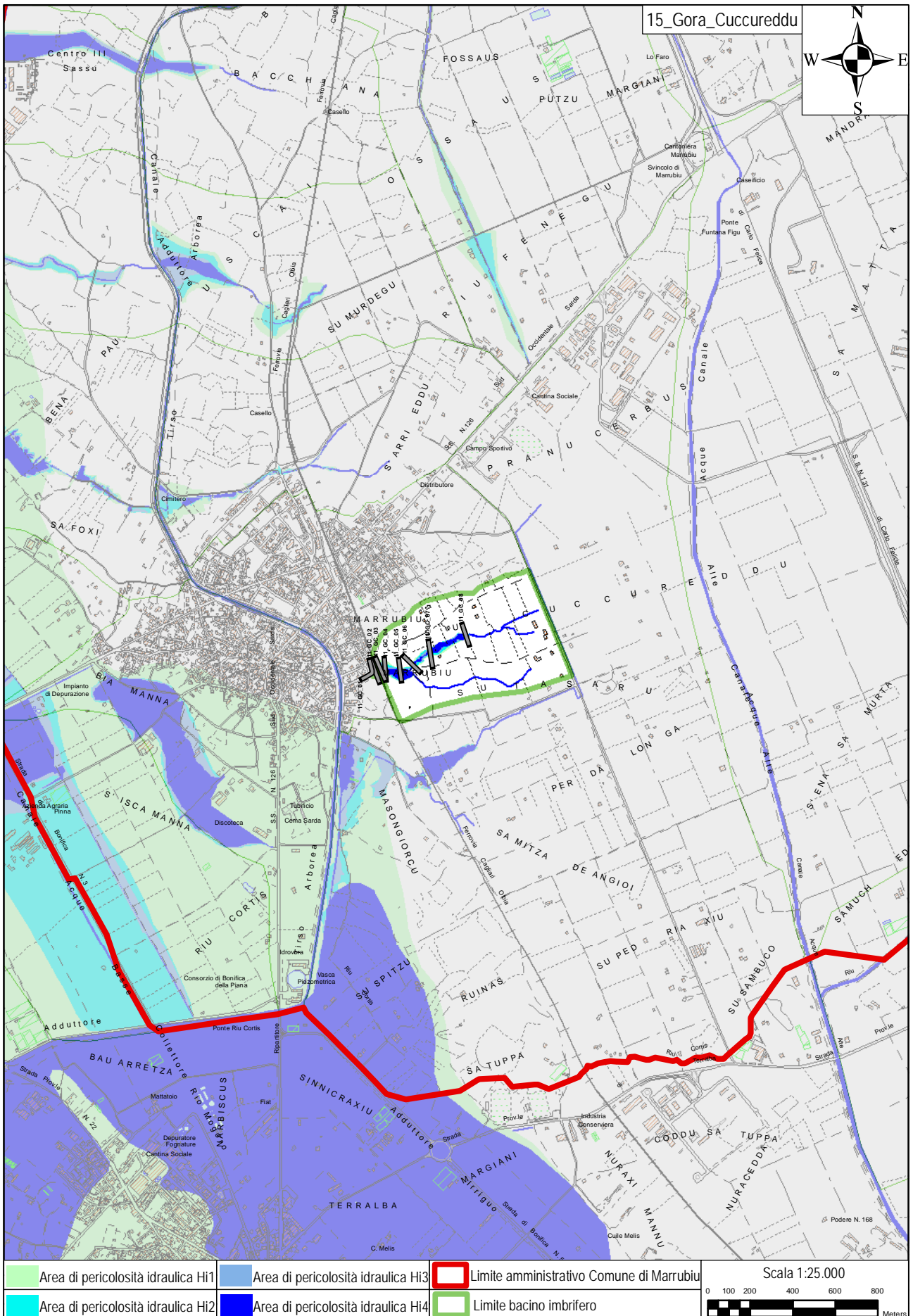






8. Gora Cuccureddu

Inquadramento



Principali grandezze morfometriche

GORA CUCCUREDDU – sub-bacino n. 15			
Superficie del bacino	S	0,41	[km ²]
Altitudine massima	H_{max}	17,1	[m slm]
Altitudine minima	H_{min}	6,3	[m slm]
Altitudine media	H_{med}	12,5	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	10,9	[m]
Pendenza media del bacino	p_m	3,9	[%]
Lunghezza dell'asta principale	L	0,92	[km]
Pendenza dell'asta principale	i	1,0	[%]
Quota della sezione di chiusura	H_{min}	6,3	[m slm]
Curve Number	CN	71,22	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	0,84	[m/s]
Ventura	t_c	0,81	[m/s]
Giandotti	t_c	1,96	[m/s]
Pasini	t_c	0,78	[m/s]
VAPI	t_c	1,35	[m/s]
Viparelli	t_c	0,26	[m/s]

Portate di massima piena

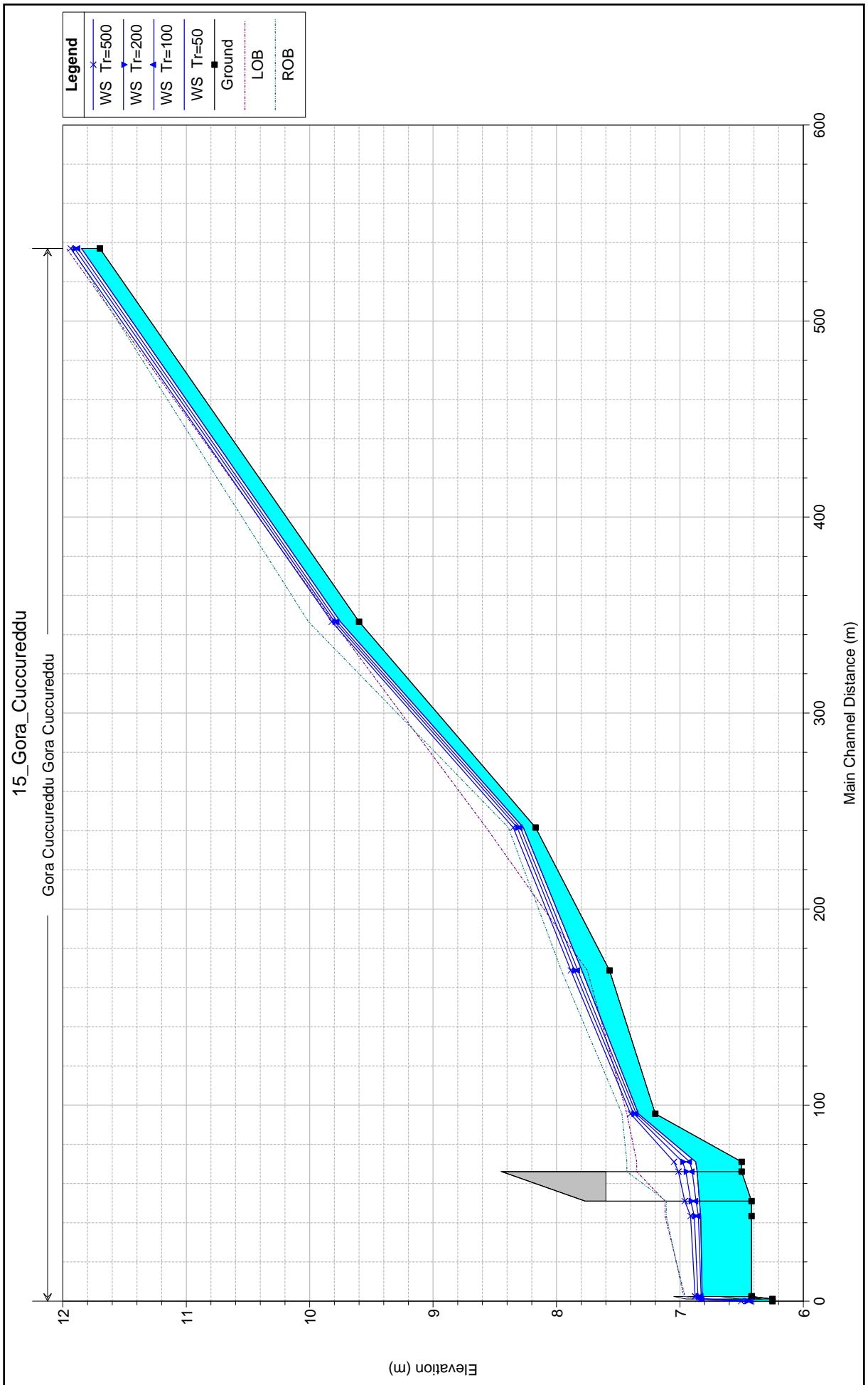
Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 08)	0,37	0,55	0,77	1,09	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

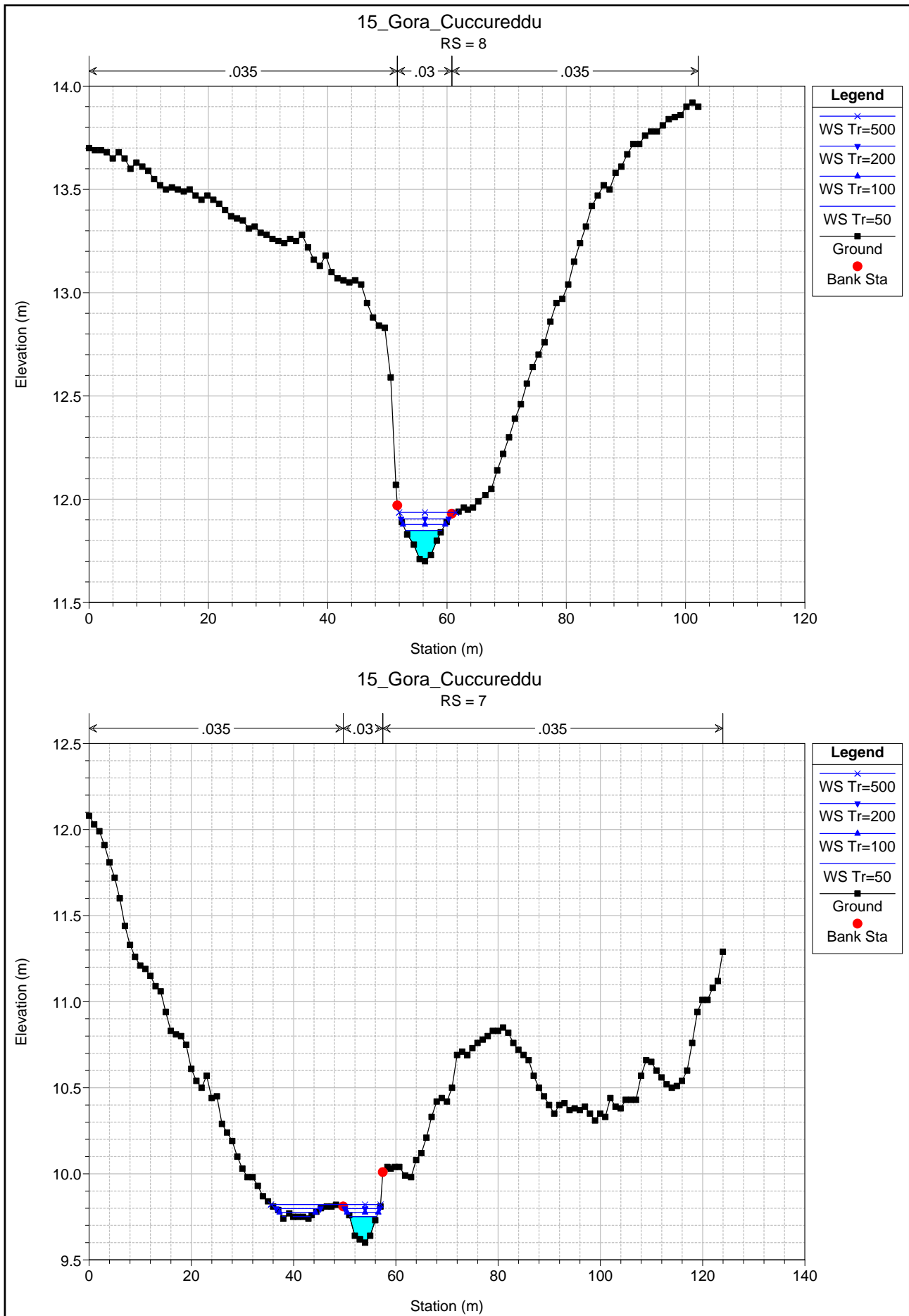
HEC-RAS Plan: 1 River: Gora Cuccureddu Reach: Gora Cuccureddu

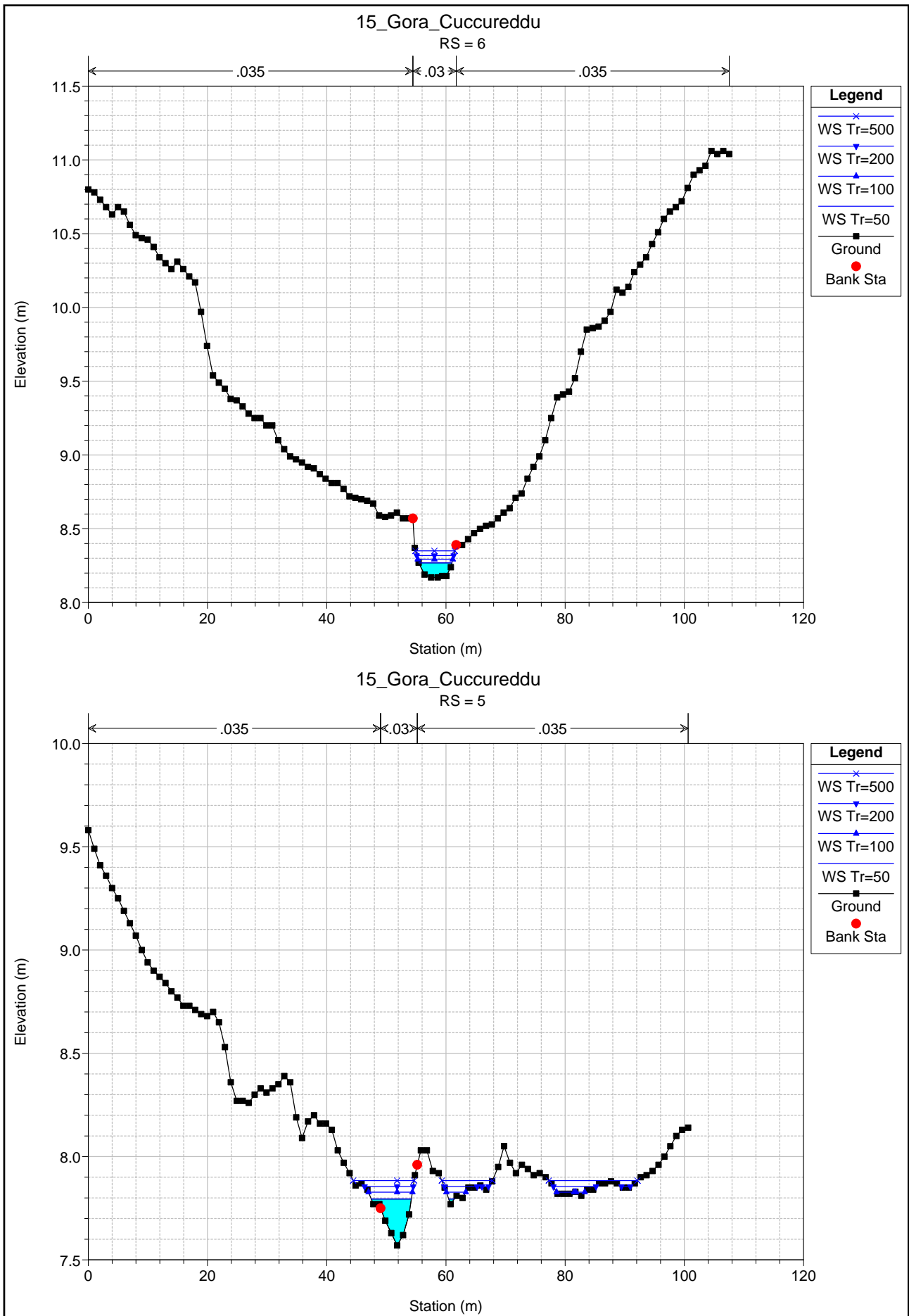
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Gora Cuccureddu	8	Tr=50	190.36	0.37	11.70	11.85	0.71	0.52	0.78
Gora Cuccureddu	8	Tr=100	190.36	0.55	11.70	11.88	0.78	0.71	0.79
Gora Cuccureddu	8	Tr=200	190.36	0.77	11.70	11.91	0.84	0.92	0.79
Gora Cuccureddu	8	Tr=500	190.36	1.09	11.70	11.94	0.93	1.18	0.84
Gora Cuccureddu	7	Tr=50	105.01	0.37	9.60	9.75	0.71	0.54	0.94
Gora Cuccureddu	7	Tr=100	105.01	0.55	9.60	9.78	0.77	0.82	0.96
Gora Cuccureddu	7	Tr=200	105.01	0.77	9.60	9.80	0.83	1.13	0.92
Gora Cuccureddu	7	Tr=500	105.01	1.09	9.60	9.82	0.91	1.56	0.98
Gora Cuccureddu	6	Tr=50	72.94	0.37	8.17	8.27	0.87	0.42	1.01
Gora Cuccureddu	6	Tr=100	72.94	0.55	8.17	8.29	0.98	0.56	1.01
Gora Cuccureddu	6	Tr=200	72.94	0.77	8.17	8.32	1.07	0.72	1.01
Gora Cuccureddu	6	Tr=500	72.94	1.09	8.17	8.35	1.18	0.92	1.01
Gora Cuccureddu	5	Tr=50	73.05	0.37	7.57	7.79	0.50	0.77	0.50
Gora Cuccureddu	5	Tr=100	73.05	0.55	7.57	7.83	0.57	1.12	0.65
Gora Cuccureddu	5	Tr=200	73.05	0.77	7.57	7.85	0.64	1.60	0.73
Gora Cuccureddu	5	Tr=500	73.05	1.09	7.57	7.88	0.69	2.44	0.72
Gora Cuccureddu	4	Tr=50	24.59	0.37	7.20	7.34	0.83	0.56	0.99
Gora Cuccureddu	4	Tr=100	24.59	0.55	7.20	7.35	0.92	0.75	1.00
Gora Cuccureddu	4	Tr=200	24.59	0.77	7.20	7.37	0.97	0.99	0.95
Gora Cuccureddu	4	Tr=500	24.59	1.09	7.20	7.40	1.04	1.33	0.96
Gora Cuccureddu	3	Tr=50	5.00	0.37	6.50	6.87	0.30	1.94	0.27
Gora Cuccureddu	3	Tr=100	5.00	0.55	6.50	6.92	0.29	2.98	0.20
Gora Cuccureddu	3	Tr=200	5.00	0.77	6.50	6.98	0.27	4.43	0.16
Gora Cuccureddu	3	Tr=500	5.00	1.09	6.50	7.05	0.25	6.50	0.13
Gora Cuccureddu	2.5		Bridge						
Gora Cuccureddu	02	Tr=50	40.91	0.37	6.42	6.83	0.47	0.79	0.30
Gora Cuccureddu	02	Tr=100	40.91	0.55	6.42	6.85	0.65	0.85	0.40
Gora Cuccureddu	02	Tr=200	40.91	0.77	6.42	6.88	0.81	0.95	0.48
Gora Cuccureddu	02	Tr=500	40.91	1.09	6.42	6.91	1.03	1.06	0.60
Gora Cuccureddu	01	Tr=50	2.50	0.37	6.42	6.82	0.23	2.08	0.23
Gora Cuccureddu	01	Tr=100	2.50	0.55	6.42	6.83	0.33	2.27	0.32
Gora Cuccureddu	01	Tr=200	2.50	0.77	6.42	6.85	0.40	2.91	0.38
Gora Cuccureddu	01	Tr=500	2.50	1.09	6.42	6.88	0.48	3.63	0.40
Gora Cuccureddu	0.5		Culvert						
Gora Cuccureddu	00	Tr=50		0.37	6.25	6.39	1.02	0.36	1.01
Gora Cuccureddu	00	Tr=100		0.55	6.25	6.43	1.16	0.48	1.01
Gora Cuccureddu	00	Tr=200		0.77	6.25	6.46	1.29	0.60	1.01
Gora Cuccureddu	00	Tr=500		1.09	6.25	6.50	1.44	0.76	1.01

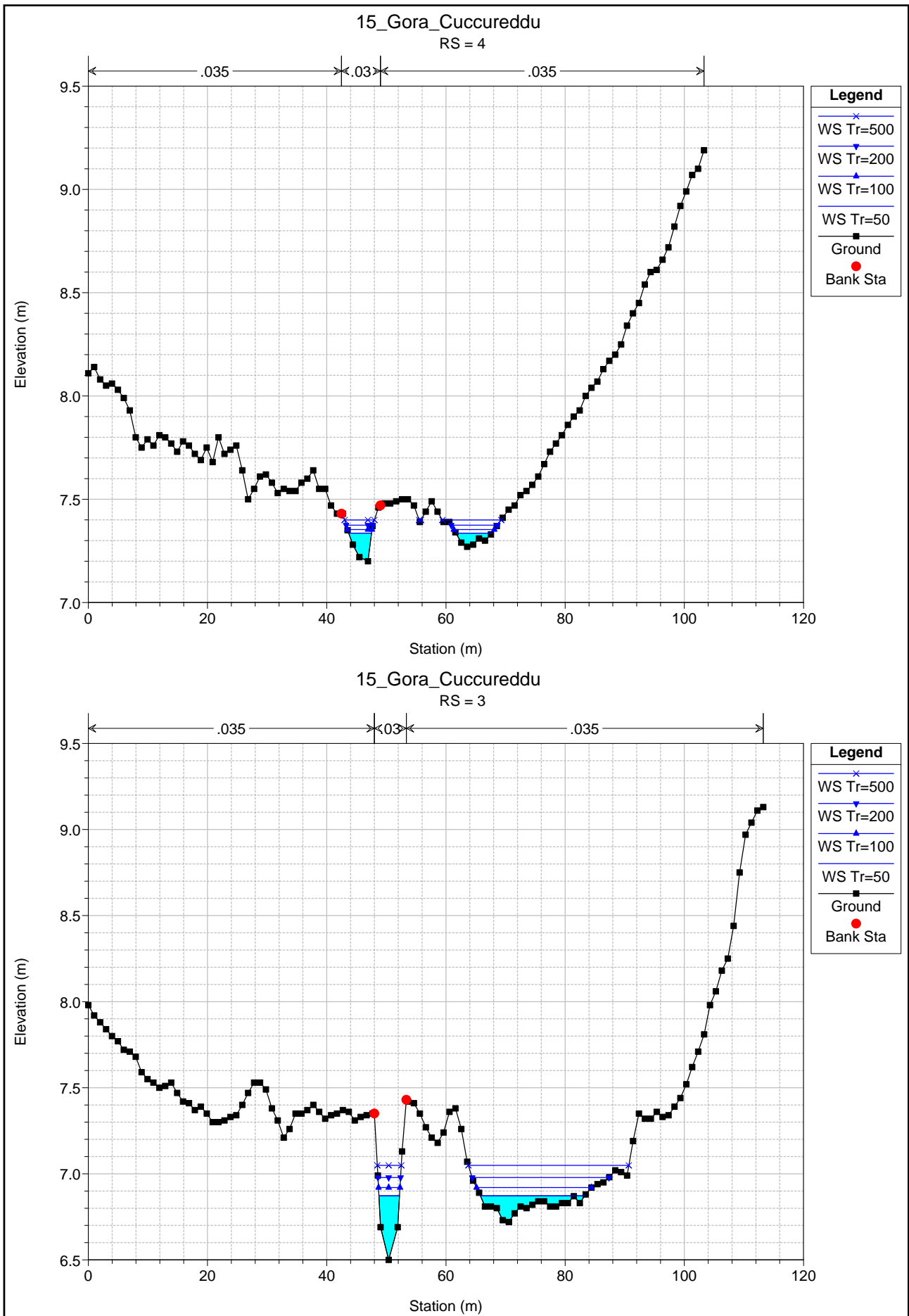
Profilo

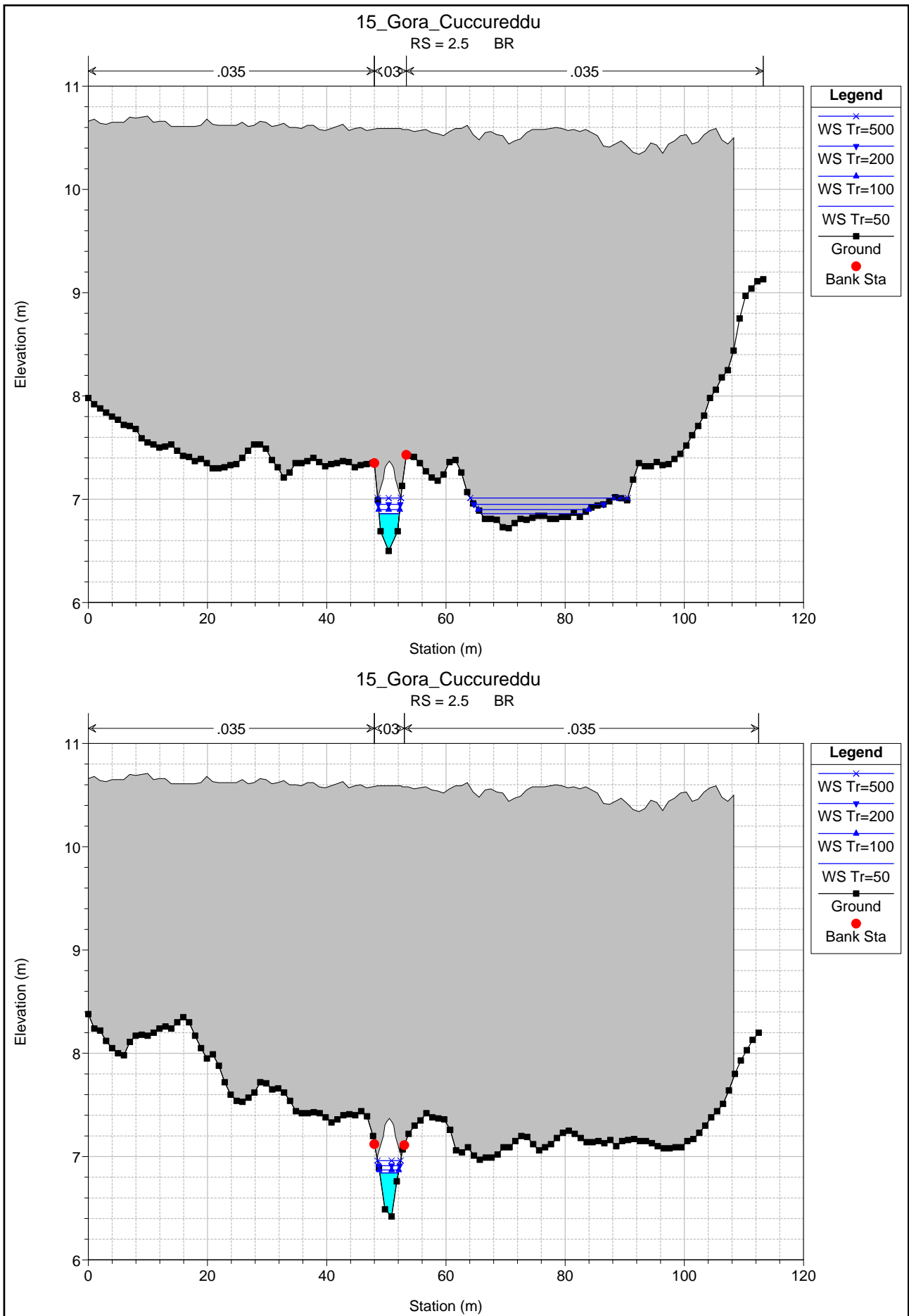


Sezioni fluviali relative ai tempi di ritorno considerati

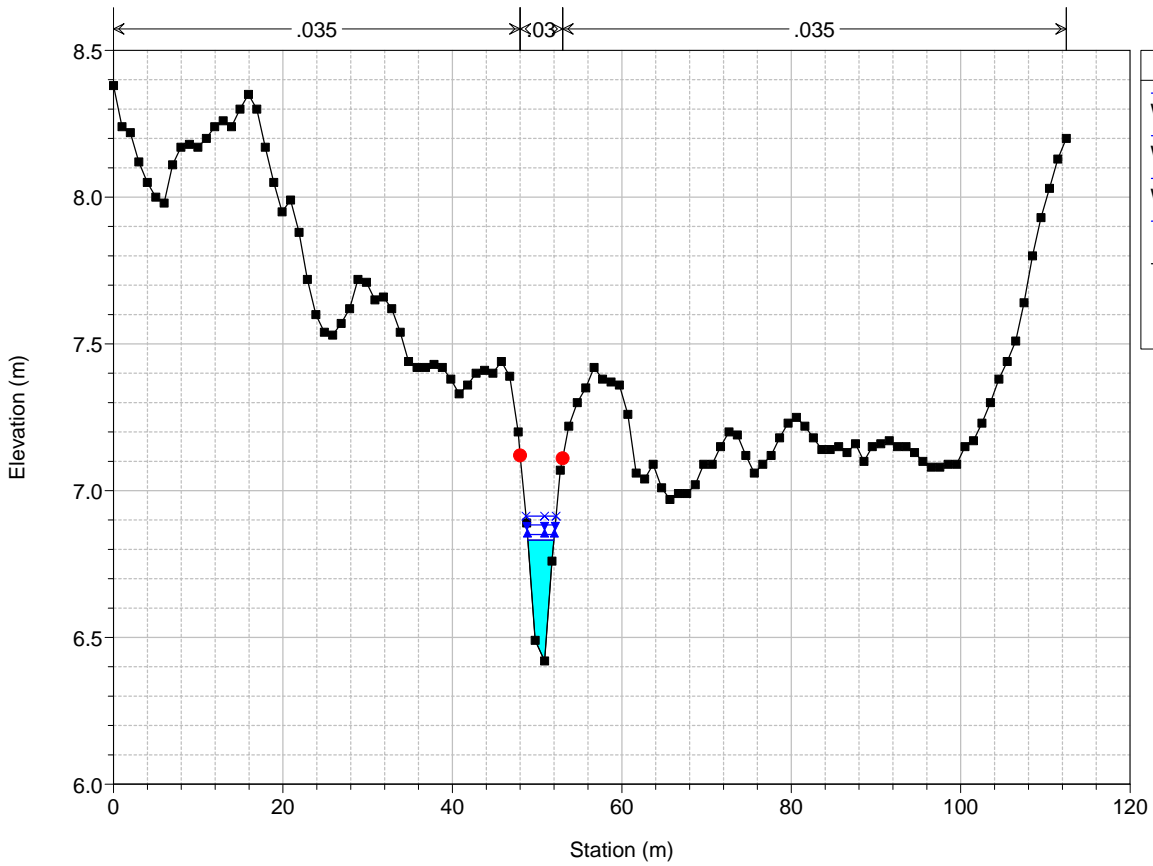




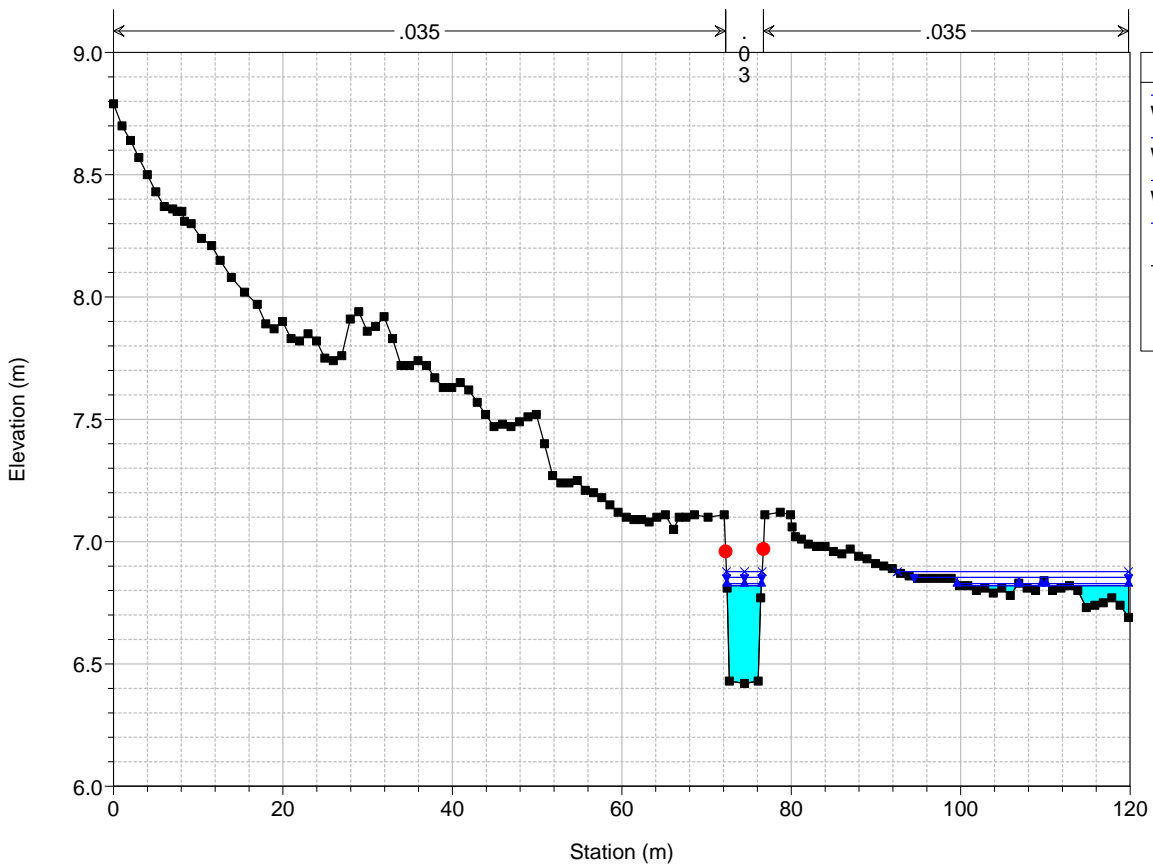


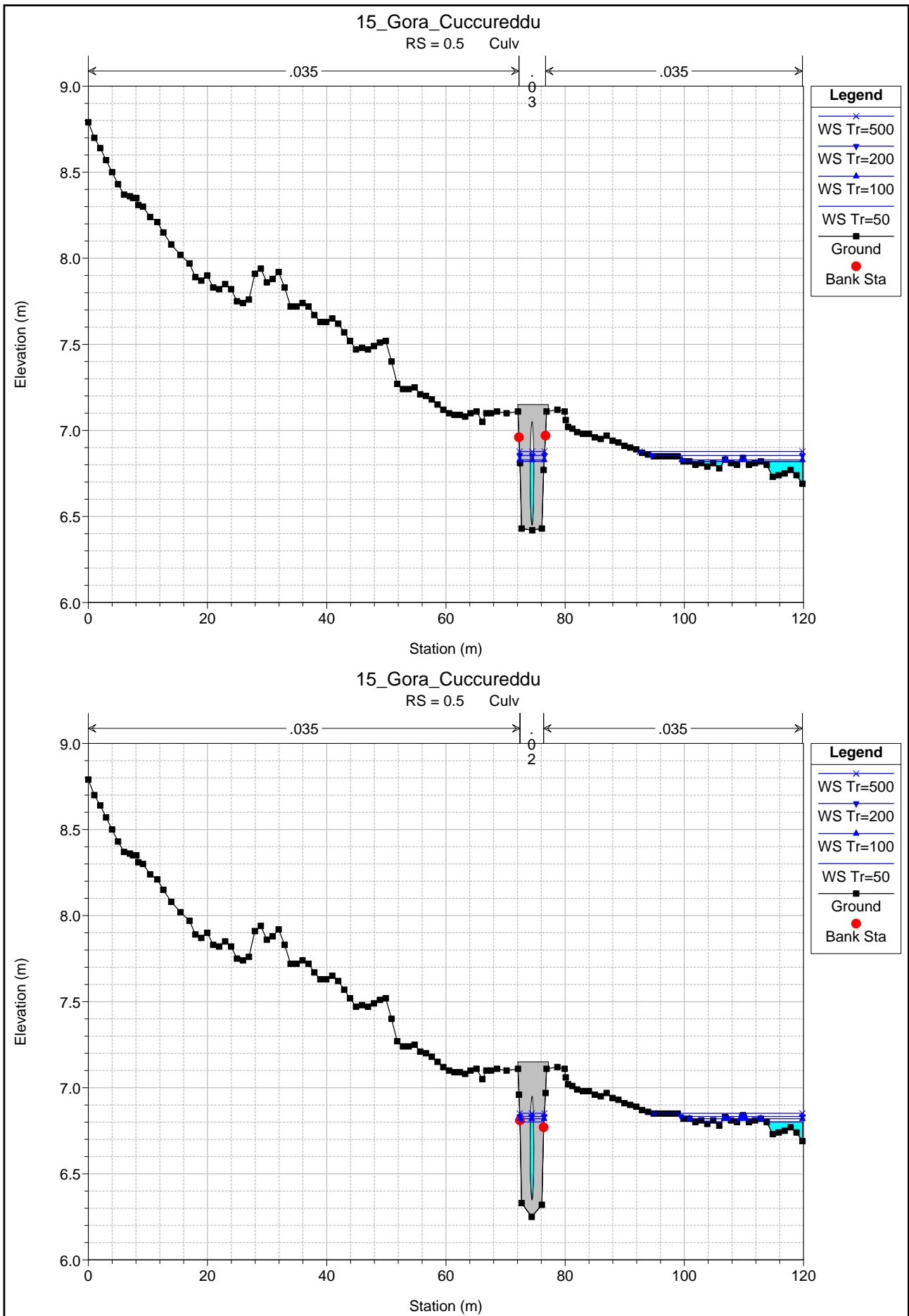


15_Gora_Cuccureddu
RS = 02

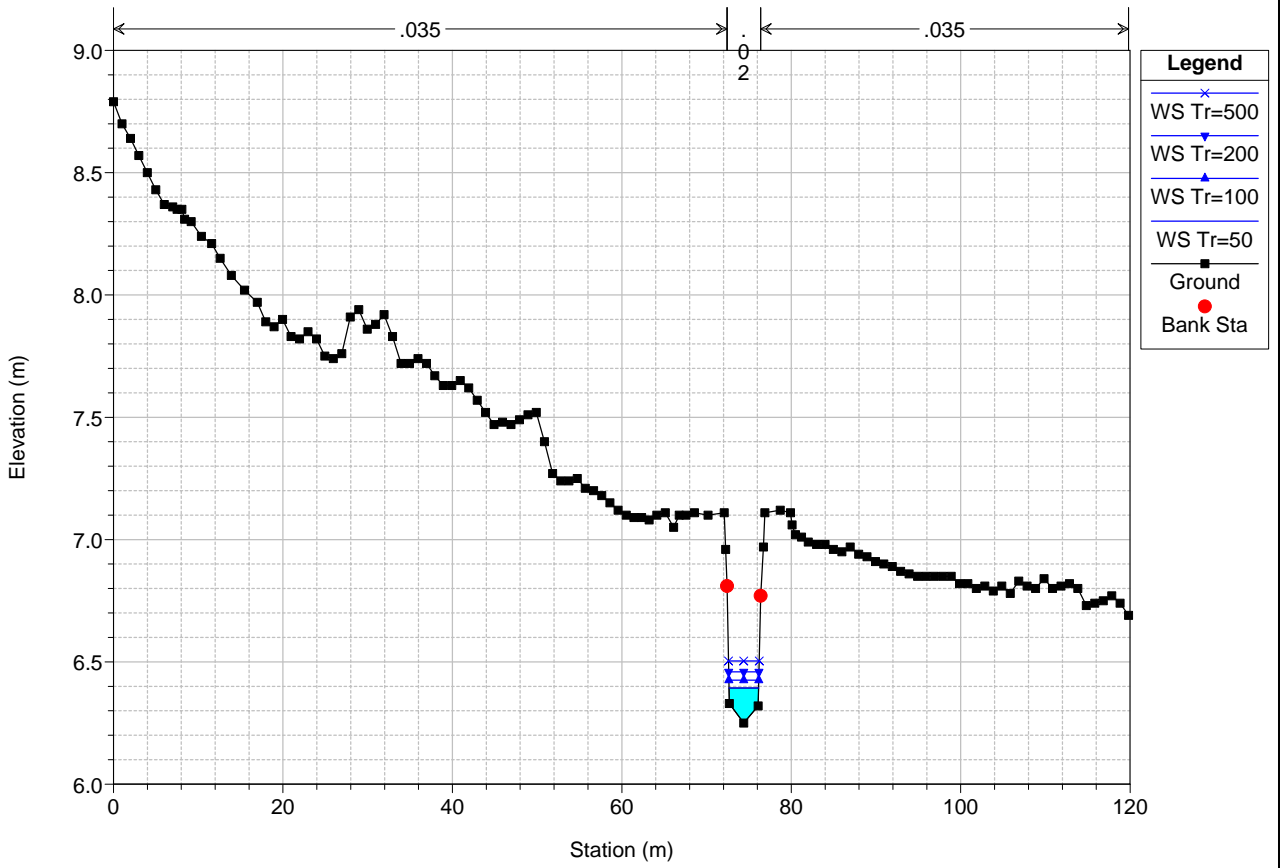


15_Gora_Cuccureddu
RS = 01



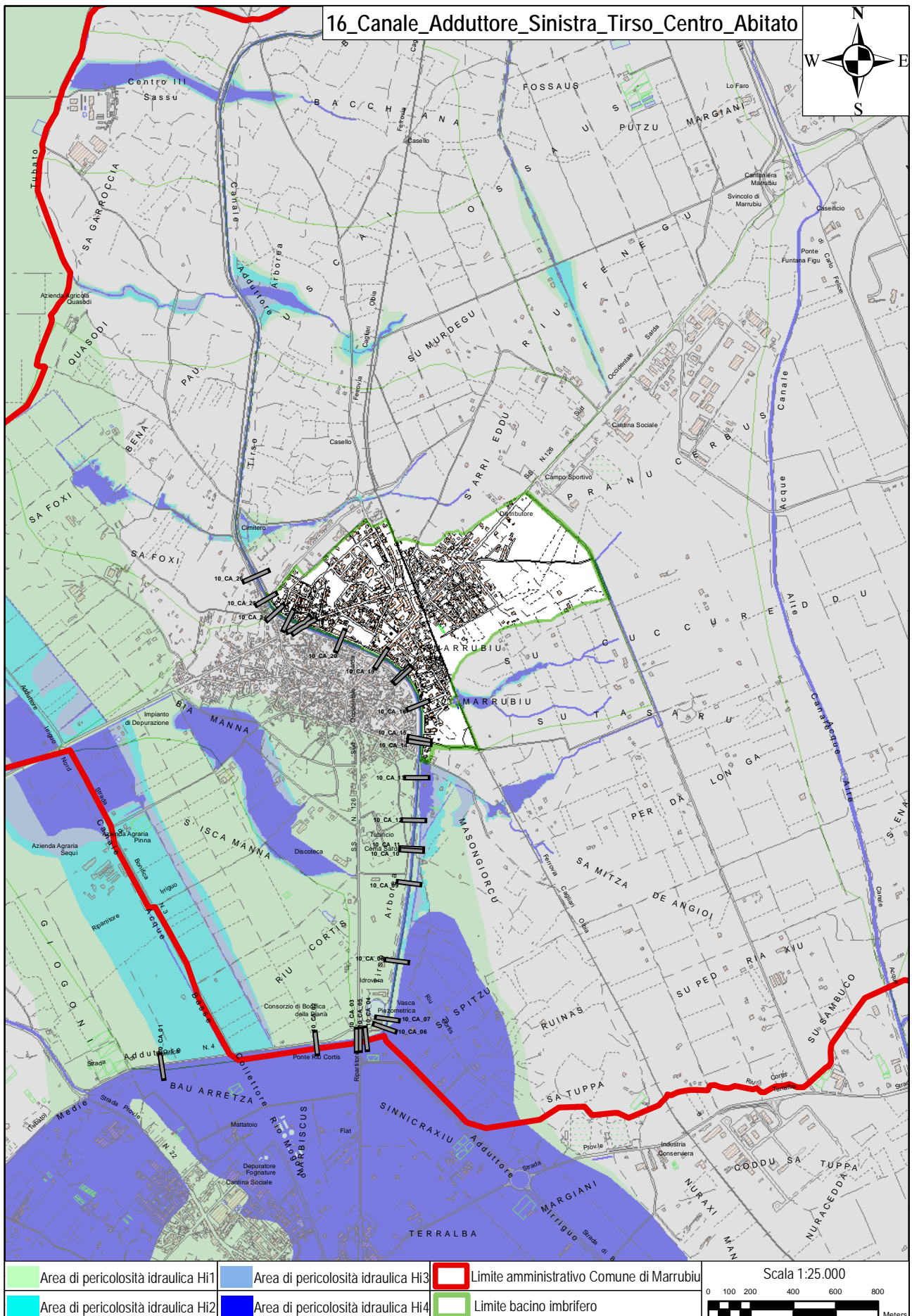


15_Gora_Cuccureddu
RS = 00



9. Canale adduttore Sinistra Tirso - Centro abitato

Inquadramento



Principali grandezze morfometriche

CANALE SINISTRA TIRSO – CENTRO ABITATO – sub-bacino n. 16			
Superficie del bacino	S	0,85	[km ²]
Altitudine massima	H_{max}	18,0	[m slm]
Altitudine minima	H_{min}	4,7	[m slm]
Altitudine media	H_{med}	11,5	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	13,3	[m]
Pendenza media del bacino	p_m	4,4	[%]
Lunghezza dell'asta principale	L	2,62	[km]
Pendenza dell'asta principale	i	0,3	[%]
Quota della sezione di chiusura	H_{min}	3,3	[m slm]
Curve Number	CN	85,79	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	1,17	[m/s]
Ventura	t_c	2,14	[m/s]
Giandotti	t_c	3,67	[m/s]
Pasini	t_c	2,57	[m/s]
VAPI	t_c	2,22	[m/s]
Viparelli	t_c	0,73	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 26)	16,57	17,64	18,79	20,41	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

HEC-RAS Plan: 1 River: Centro Abitato Reach: Centro Abitato

Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Centro Abitato	26	Tr=50	119.29	16.57	5.27	6.82	1.25	13.46	0.39
Centro Abitato	26	Tr=100	119.29	17.64	5.27	6.88	1.26	14.23	0.40
Centro Abitato	26	Tr=200	119.29	18.79	5.27	6.94	1.28	15.08	0.40
Centro Abitato	26	Tr=500	119.29	20.41	5.27	7.03	1.29	16.33	0.40
Centro Abitato	25	Tr=50	76.91	16.57	5.28	6.72	1.41	11.71	0.45
Centro Abitato	25	Tr=100	76.91	17.64	5.28	6.78	1.42	12.43	0.44
Centro Abitato	25	Tr=200	76.91	18.79	5.28	6.84	1.42	13.20	0.44
Centro Abitato	25	Tr=500	76.91	20.41	5.28	6.93	1.43	14.31	0.43
Centro Abitato	24	Tr=50	70.28	16.57	5.09	6.66	1.38	12.05	0.43
Centro Abitato	24	Tr=100	70.28	17.64	5.09	6.72	1.38	12.80	0.43
Centro Abitato	24	Tr=200	70.28	18.79	5.09	6.79	1.38	13.61	0.42
Centro Abitato	24	Tr=500	70.28	20.41	5.09	6.88	1.38	14.80	0.42
Centro Abitato	23	Tr=50	56.81	16.57	5.04	6.61	1.31	12.66	0.40
Centro Abitato	23	Tr=100	56.81	17.64	5.04	6.68	1.31	13.42	0.40
Centro Abitato	23	Tr=200	56.81	18.79	5.04	6.75	1.32	14.24	0.39
Centro Abitato	23	Tr=500	56.81	20.41	5.04	6.84	1.32	15.45	0.39
Centro Abitato	22	Tr=50	4.00	16.57	4.97	6.60	1.10	15.00	0.33
Centro Abitato	22	Tr=100	4.00	17.64	4.97	6.67	1.11	15.88	0.33
Centro Abitato	22	Tr=200	4.00	18.79	4.97	6.73	1.12	16.84	0.33
Centro Abitato	22	Tr=500	4.00	20.41	4.97	6.83	1.12	18.27	0.33
Centro Abitato	21.5	Bridge							
Centro Abitato	21	Tr=50	182.01	16.57	4.95	6.60	0.96	17.19	0.29
Centro Abitato	21	Tr=100	182.01	17.64	4.95	6.67	0.97	18.19	0.29
Centro Abitato	21	Tr=200	182.01	18.79	4.95	6.73	0.98	19.26	0.28
Centro Abitato	21	Tr=500	182.01	20.41	4.95	6.83	0.98	20.81	0.28
Centro Abitato	20	Tr=50	4.00	16.57	4.83	6.48	1.26	13.13	0.38
Centro Abitato	20	Tr=100	4.00	17.64	4.83	6.55	1.27	13.94	0.38
Centro Abitato	20	Tr=200	4.00	18.79	4.83	6.62	1.27	14.80	0.37
Centro Abitato	20	Tr=500	4.00	20.41	4.83	6.72	1.27	16.07	0.36
Centro Abitato	19.5	Bridge							
Centro Abitato	19	Tr=50	118.89	16.57	4.72	6.34	1.37	12.11	0.40
Centro Abitato	19	Tr=100	118.89	17.64	4.72	6.41	1.37	12.84	0.39
Centro Abitato	19	Tr=200	118.89	18.79	4.72	6.48	1.38	13.63	0.39
Centro Abitato	19	Tr=500	118.89	20.41	4.72	6.59	1.38	14.78	0.38
Centro Abitato	18	Tr=50	1.00	16.57	4.58	6.26	1.33	12.48	0.38
Centro Abitato	18	Tr=100	1.00	17.64	4.58	6.34	1.33	13.23	0.38
Centro Abitato	18	Tr=200	1.00	18.79	4.58	6.41	1.34	14.04	0.37
Centro Abitato	18	Tr=500	1.00	20.41	4.58	6.52	1.34	15.24	0.37
Centro Abitato	17.5	Bridge							
Centro Abitato	17	Tr=50	159.00	16.57	4.55	6.19	1.71	9.70	0.52
Centro Abitato	17	Tr=100	159.00	17.64	4.55	6.27	1.70	10.39	0.51
Centro Abitato	17	Tr=200	159.00	18.79	4.55	6.35	1.69	11.13	0.50
Centro Abitato	17	Tr=500	159.00	20.41	4.55	6.45	1.68	12.18	0.48
Centro Abitato	16	Tr=50	158.28	16.57	4.43	6.12	1.26	13.19	0.34
Centro Abitato	16	Tr=100	158.28	17.64	4.43	6.20	1.26	13.97	0.34
Centro Abitato	16	Tr=200	158.28	18.79	4.43	6.28	1.27	14.82	0.34
Centro Abitato	16	Tr=500	158.28	20.41	4.43	6.39	1.27	16.01	0.34
Centro Abitato	15	Tr=50	2.00	16.57	4.34	6.07	1.02	16.19	0.30
Centro Abitato	15	Tr=100	2.00	17.64	4.34	6.15	1.02	17.34	0.29
Centro Abitato	15	Tr=200	2.00	18.79	4.34	6.24	1.01	18.59	0.29
Centro Abitato	15	Tr=500	2.00	20.41	4.34	6.36	1.00	20.42	0.29

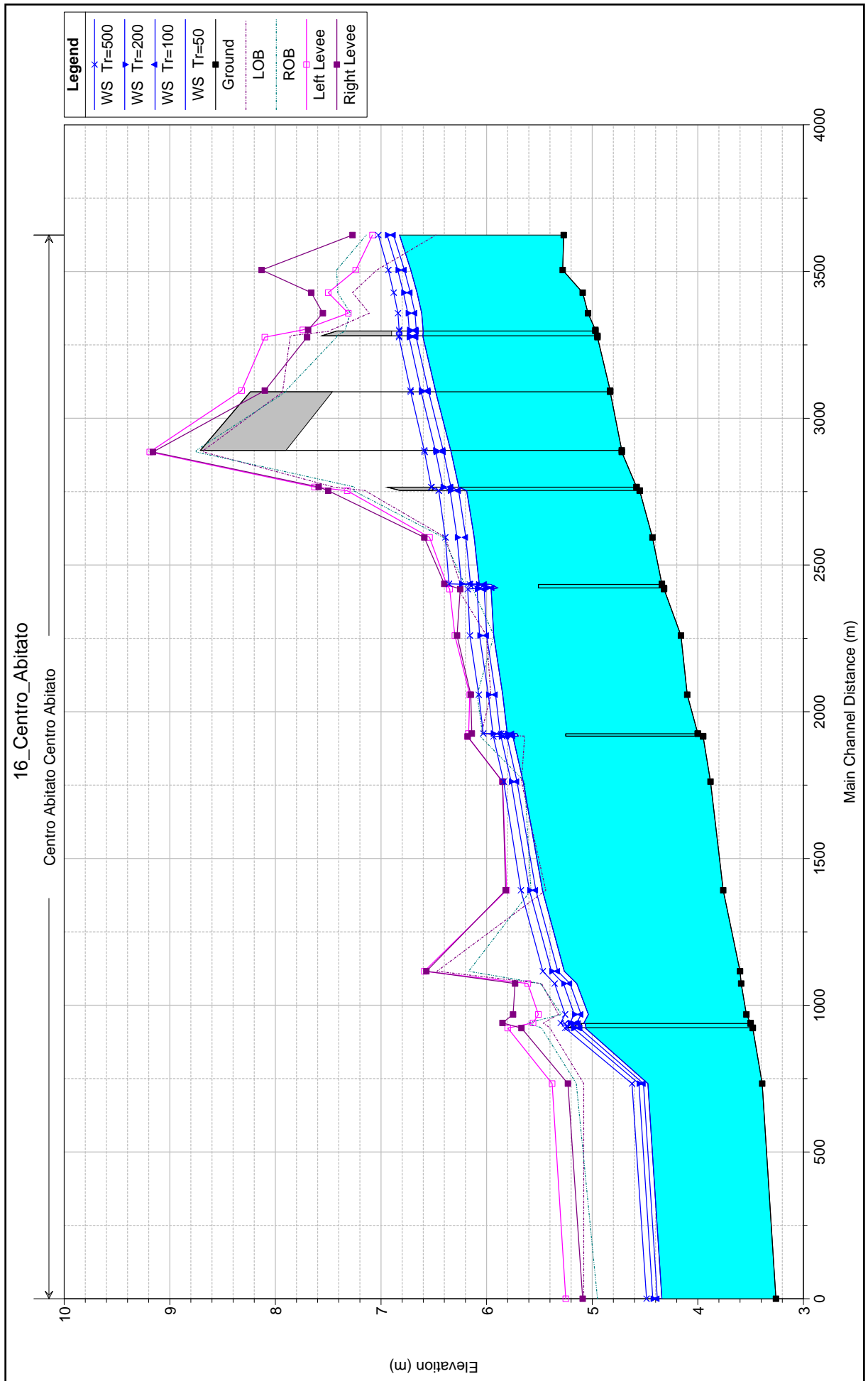
HEC-RAS Plan: 1 River: Centro Abitato Reach: Centro Abitato (Continued)

Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Centro Abitato	14.5		Bridge						
Centro Abitato	14	Tr=50	158.38	16.57	4.32	5.96	1.24	13.39	0.35
Centro Abitato	14	Tr=100	158.38	17.64	4.32	6.02	1.25	14.08	0.35
Centro Abitato	14	Tr=200	158.38	18.79	4.32	6.09	1.27	14.83	0.35
Centro Abitato	14	Tr=500	158.38	20.41	4.32	6.18	1.29	15.87	0.36
Centro Abitato	13	Tr=50	201.62	16.57	4.16	5.93	0.88	18.80	0.24
Centro Abitato	13	Tr=100	201.62	17.64	4.16	6.00	0.89	19.72	0.24
Centro Abitato	13	Tr=200	201.62	18.79	4.16	6.07	0.91	20.68	0.24
Centro Abitato	13	Tr=500	201.62	20.41	4.16	6.16	0.93	22.00	0.24
Centro Abitato	12	Tr=50	132.09	16.57	4.10	5.85	1.12	14.82	0.31
Centro Abitato	12	Tr=100	132.09	17.64	4.10	5.92	1.13	15.57	0.31
Centro Abitato	12	Tr=200	132.09	18.79	4.10	5.98	1.15	16.35	0.31
Centro Abitato	12	Tr=500	132.09	20.41	4.10	6.07	1.17	17.46	0.32
Centro Abitato	11	Tr=50	1.00	16.57	4.00	5.80	1.06	15.57	0.29
Centro Abitato	11	Tr=100	1.00	17.64	4.00	5.87	1.08	16.33	0.29
Centro Abitato	11	Tr=200	1.00	18.79	4.00	5.94	1.10	17.13	0.29
Centro Abitato	11	Tr=500	1.00	20.41	4.00	6.03	1.12	18.27	0.30
Centro Abitato	10.5		Bridge						
Centro Abitato	10	Tr=50	153.63	16.57	3.95	5.75	1.04	16.01	0.28
Centro Abitato	10	Tr=100	153.63	17.64	3.95	5.81	1.06	16.69	0.29
Centro Abitato	10	Tr=200	153.63	18.79	3.95	5.86	1.08	17.38	0.29
Centro Abitato	10	Tr=500	153.63	20.41	3.95	5.94	1.12	18.29	0.30
Centro Abitato	09	Tr=50	370.44	16.57	3.88	5.65	1.28	12.99	0.38
Centro Abitato	09	Tr=100	370.44	17.64	3.88	5.71	1.30	13.65	0.39
Centro Abitato	09	Tr=200	370.44	18.79	3.88	5.77	1.32	14.36	0.40
Centro Abitato	09	Tr=500	370.44	20.41	3.88	5.84	1.35	15.37	0.43
Centro Abitato	08	Tr=50	275.97	16.57	3.76	5.47	1.12	14.76	0.34
Centro Abitato	08	Tr=100	275.97	17.64	3.76	5.53	1.13	15.62	0.34
Centro Abitato	08	Tr=200	275.97	18.79	3.76	5.60	1.14	16.52	0.35
Centro Abitato	08	Tr=500	275.97	20.41	3.76	5.68	1.16	17.75	0.35
Centro Abitato	07	Tr=50	41.64	16.57	3.60	5.26	1.45	11.42	0.41
Centro Abitato	07	Tr=100	41.64	17.64	3.60	5.33	1.47	11.97	0.41
Centro Abitato	07	Tr=200	41.64	18.79	3.60	5.39	1.50	12.52	0.41
Centro Abitato	07	Tr=500	41.64	20.41	3.60	5.47	1.54	13.27	0.41
Centro Abitato	06	Tr=50	105.29	16.57	3.59	5.15	1.86	8.89	0.57
Centro Abitato	06	Tr=100	105.29	17.64	3.59	5.21	1.87	9.43	0.57
Centro Abitato	06	Tr=200	105.29	18.79	3.59	5.27	1.89	9.96	0.57
Centro Abitato	06	Tr=500	105.29	20.41	3.59	5.36	1.91	10.71	0.57
Centro Abitato	05	Tr=50	29.08	16.57	3.54	5.04	1.67	9.90	0.51
Centro Abitato	05	Tr=100	29.08	17.64	3.54	5.11	1.67	10.54	0.51
Centro Abitato	05	Tr=200	29.08	18.79	3.54	5.17	1.68	11.16	0.50
Centro Abitato	05	Tr=500	29.08	20.41	3.54	5.26	1.70	12.02	0.50
Centro Abitato	04	Tr=50	2.00	16.57	3.50	5.08	1.07	15.47	0.31
Centro Abitato	04	Tr=100	2.00	17.64	3.50	5.15	1.08	16.35	0.30
Centro Abitato	04	Tr=200	2.00	18.79	3.50	5.21	1.09	17.18	0.30
Centro Abitato	04	Tr=500	2.00	20.41	3.50	5.30	1.11	18.34	0.30
Centro Abitato	3.5		Bridge						
Centro Abitato	03	Tr=50	189.25	16.57	3.48	5.07	1.04	15.89	0.30
Centro Abitato	03	Tr=100	189.25	17.64	3.48	5.12	1.06	16.64	0.31
Centro Abitato	03	Tr=200	189.25	18.79	3.48	5.18	1.08	17.45	0.31
Centro Abitato	03	Tr=500	189.25	20.41	3.48	5.26	1.10	18.58	0.31

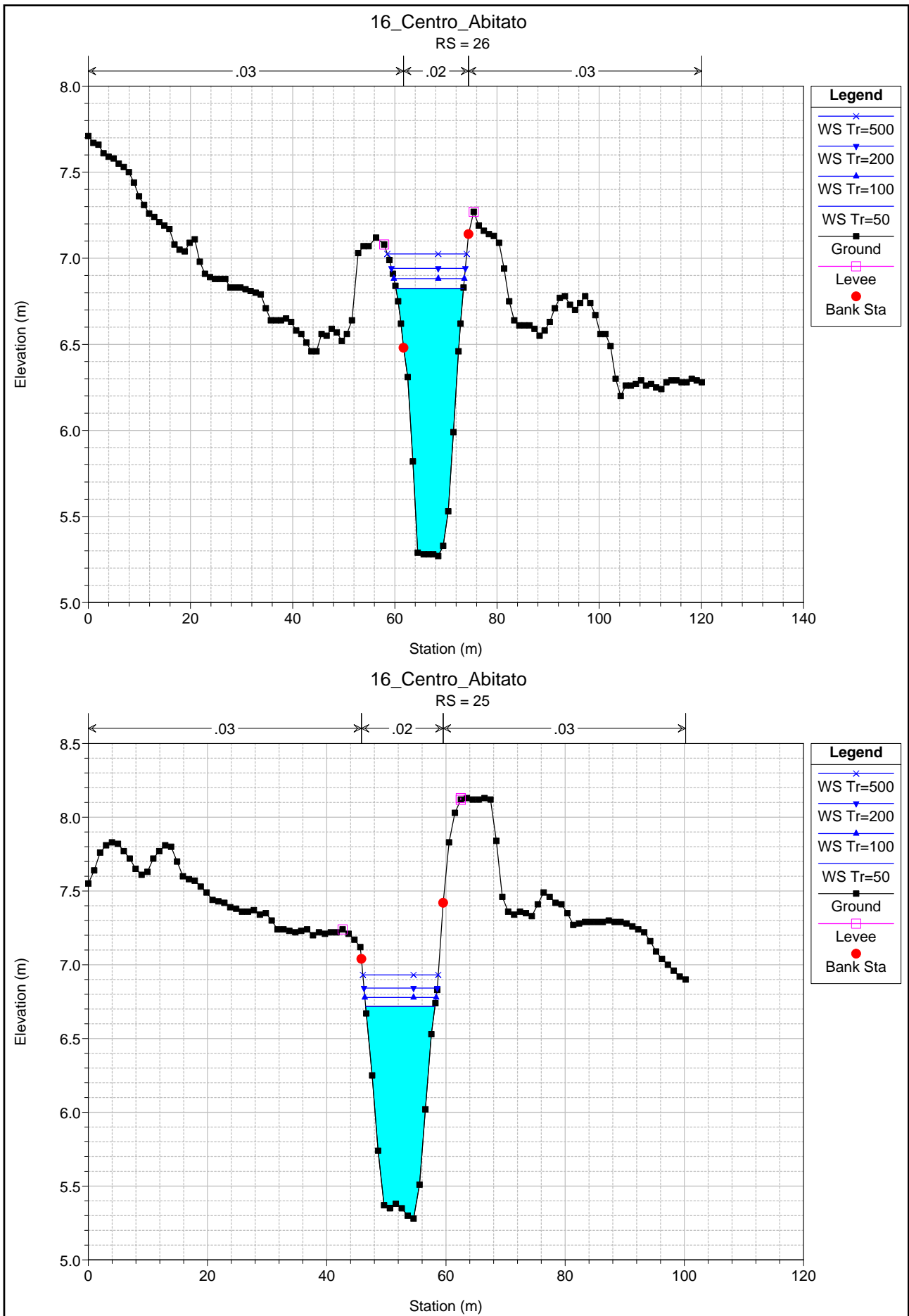
HEC-RAS Plan: 1 River: Centro Abitato Reach: Centro Abitato (Continued)

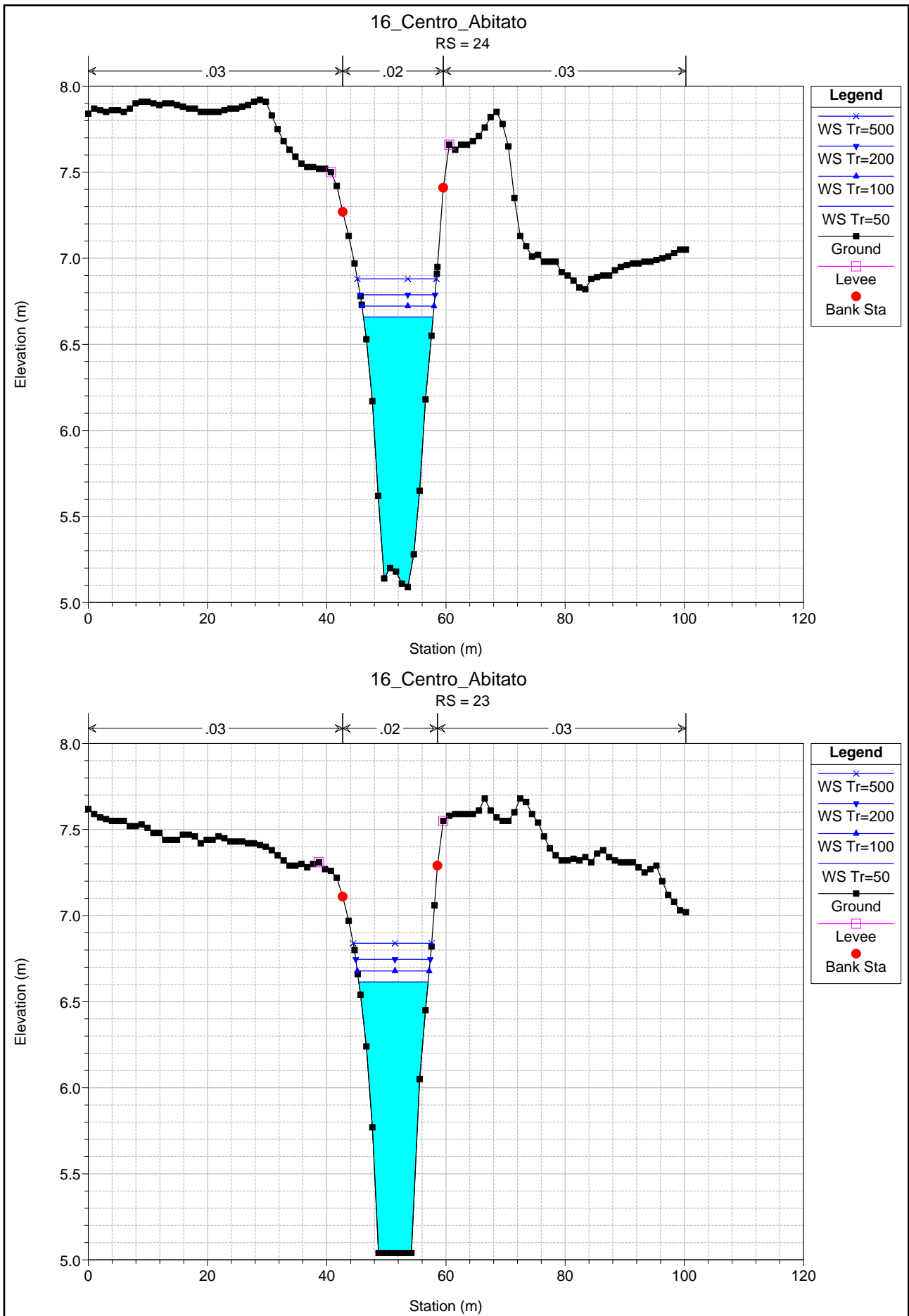
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Centro Abitato	02	Tr=50	733.00	16.57	3.39	4.47	2.93	5.66	1.00
Centro Abitato	02	Tr=100	733.00	17.64	3.39	4.51	2.97	5.93	1.00
Centro Abitato	02	Tr=200	733.00	18.79	3.39	4.56	3.02	6.22	1.00
Centro Abitato	02	Tr=500	733.00	20.41	3.39	4.62	3.06	6.66	1.00
Centro Abitato	01	Tr=50		16.57	3.26	4.34	2.37	7.00	0.80
Centro Abitato	01	Tr=100		17.64	3.26	4.38	2.40	7.34	0.80
Centro Abitato	01	Tr=200		18.79	3.26	4.43	2.44	7.70	0.81
Centro Abitato	01	Tr=500		20.41	3.26	4.49	2.49	8.20	0.81

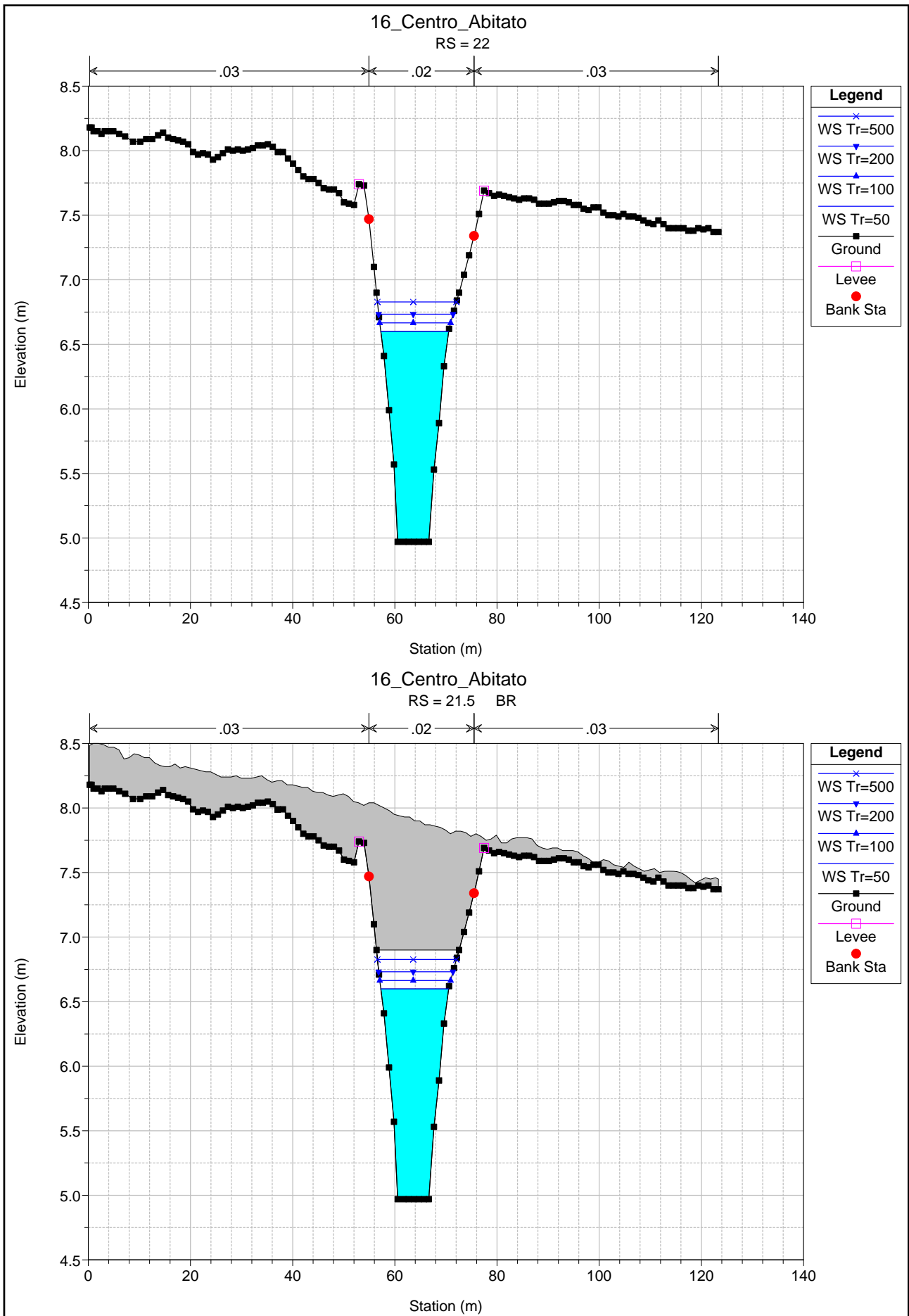
Profilo

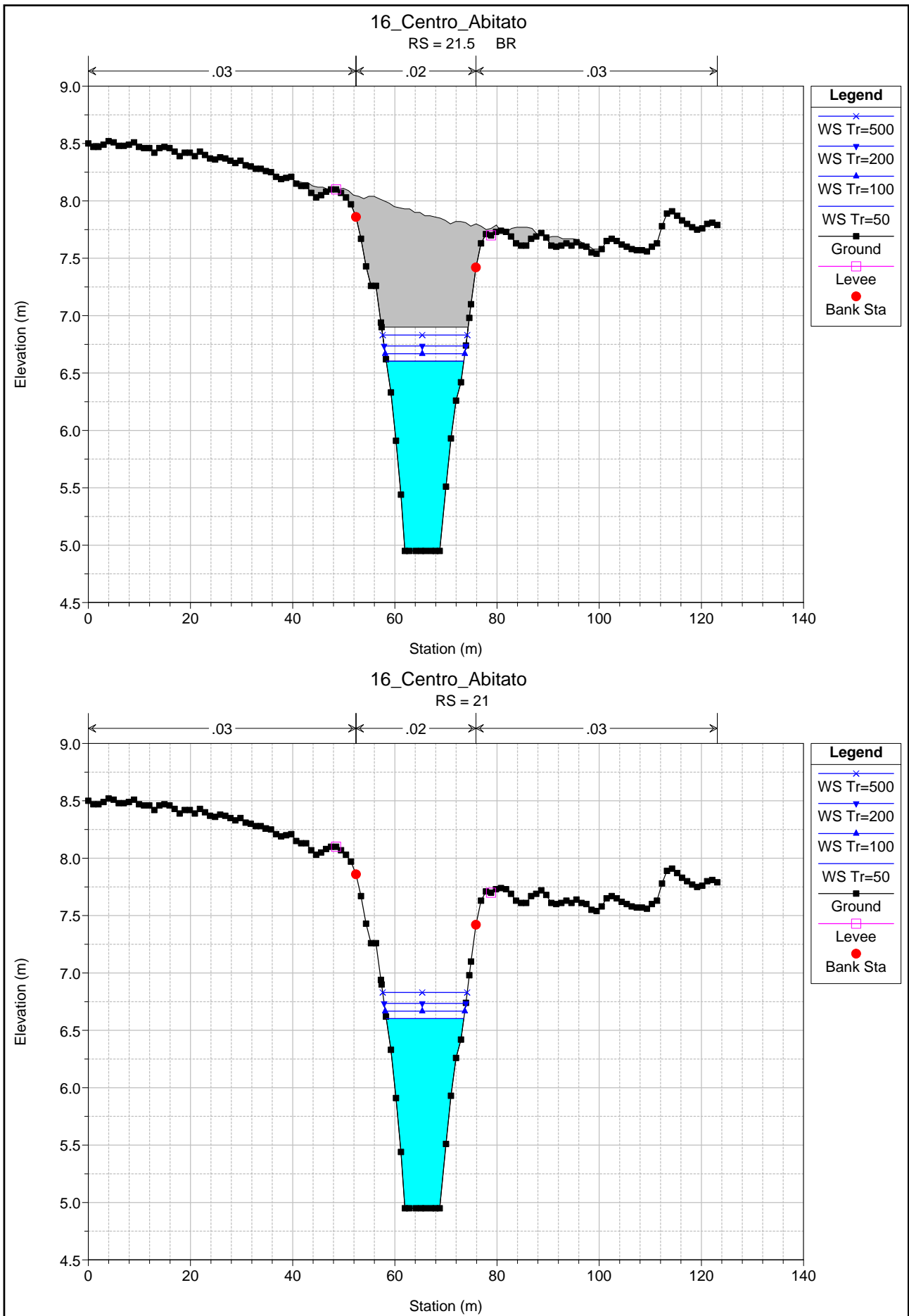


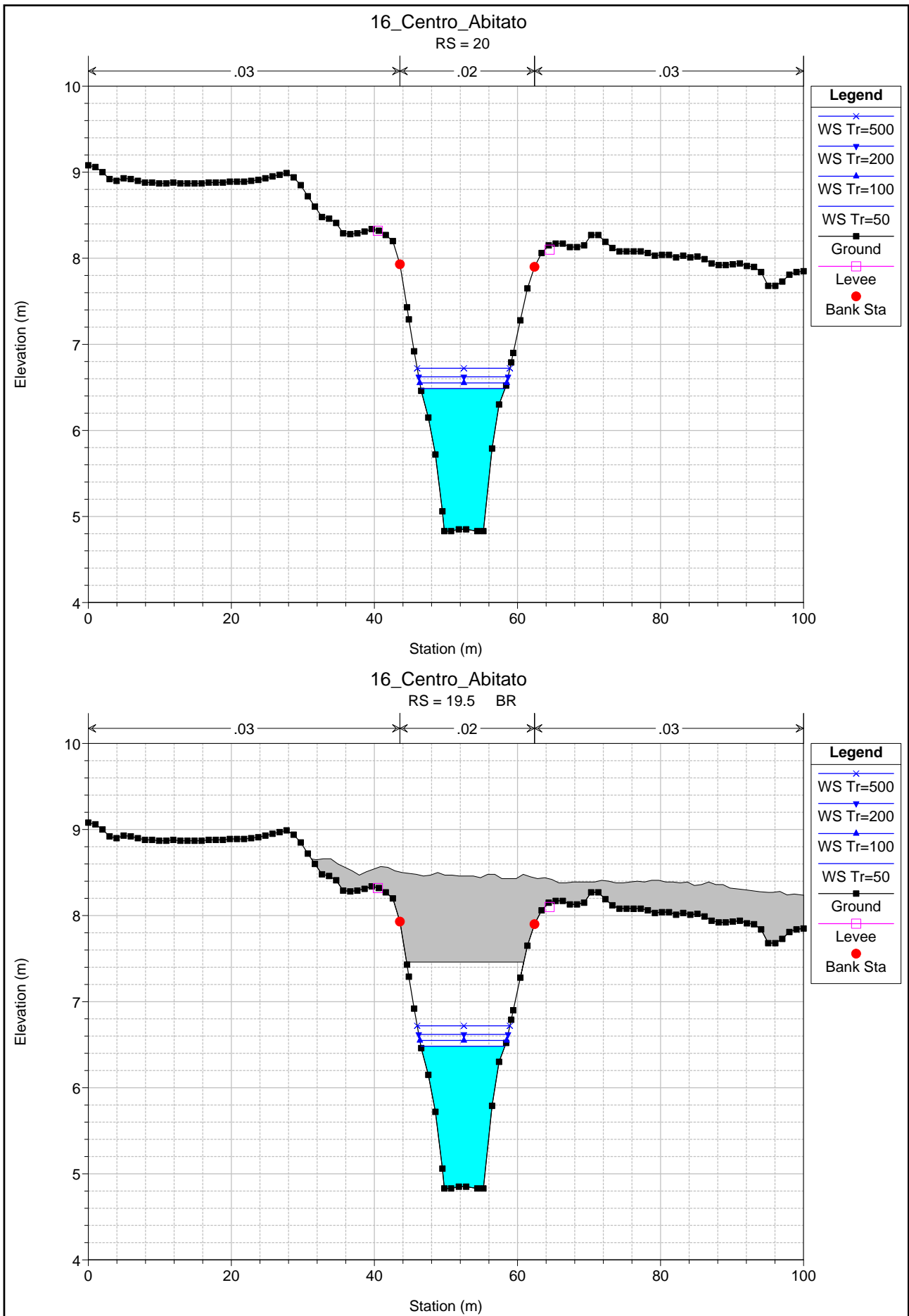
Sezioni fluviali relative ai tempi di ritorno considerati

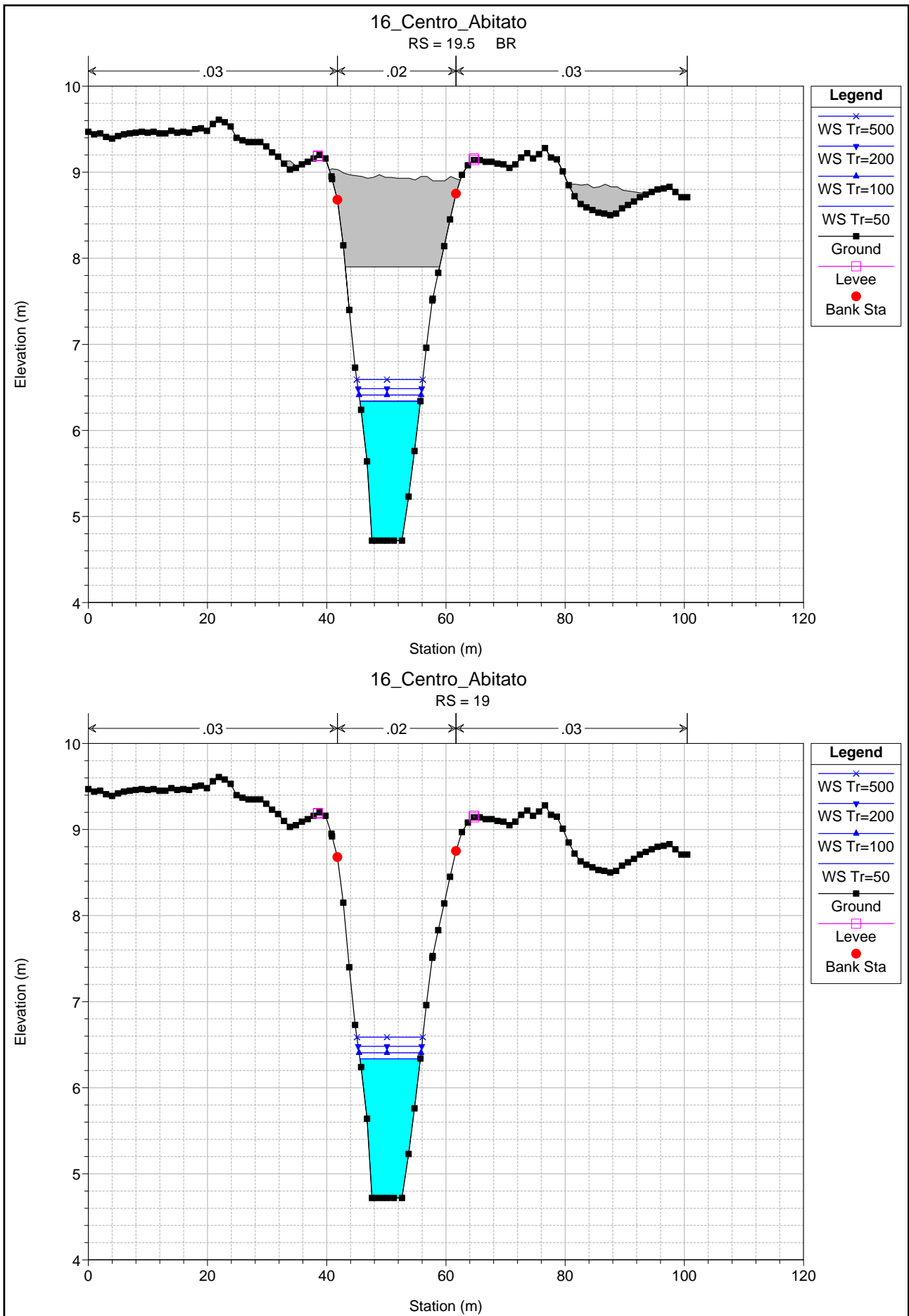


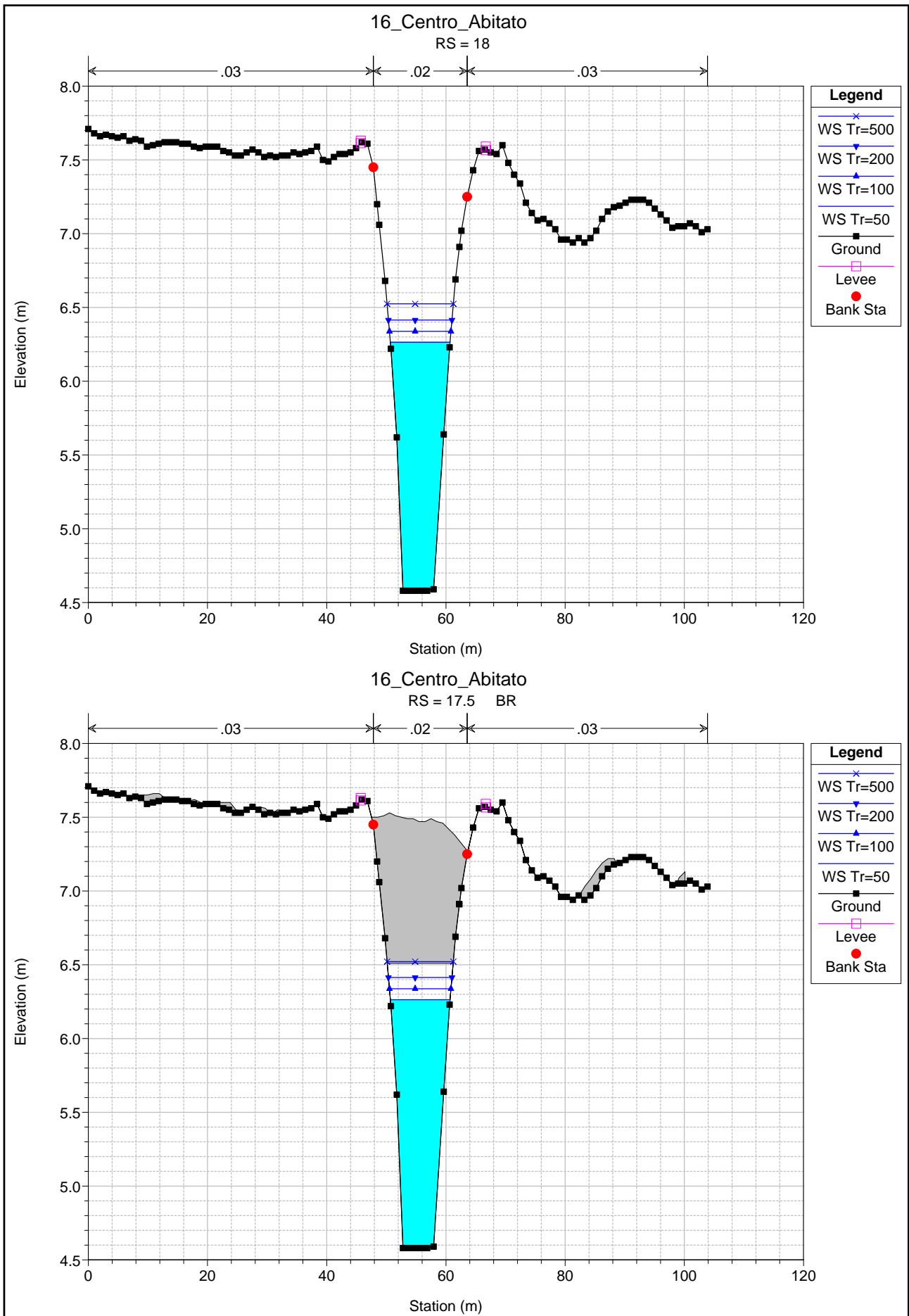


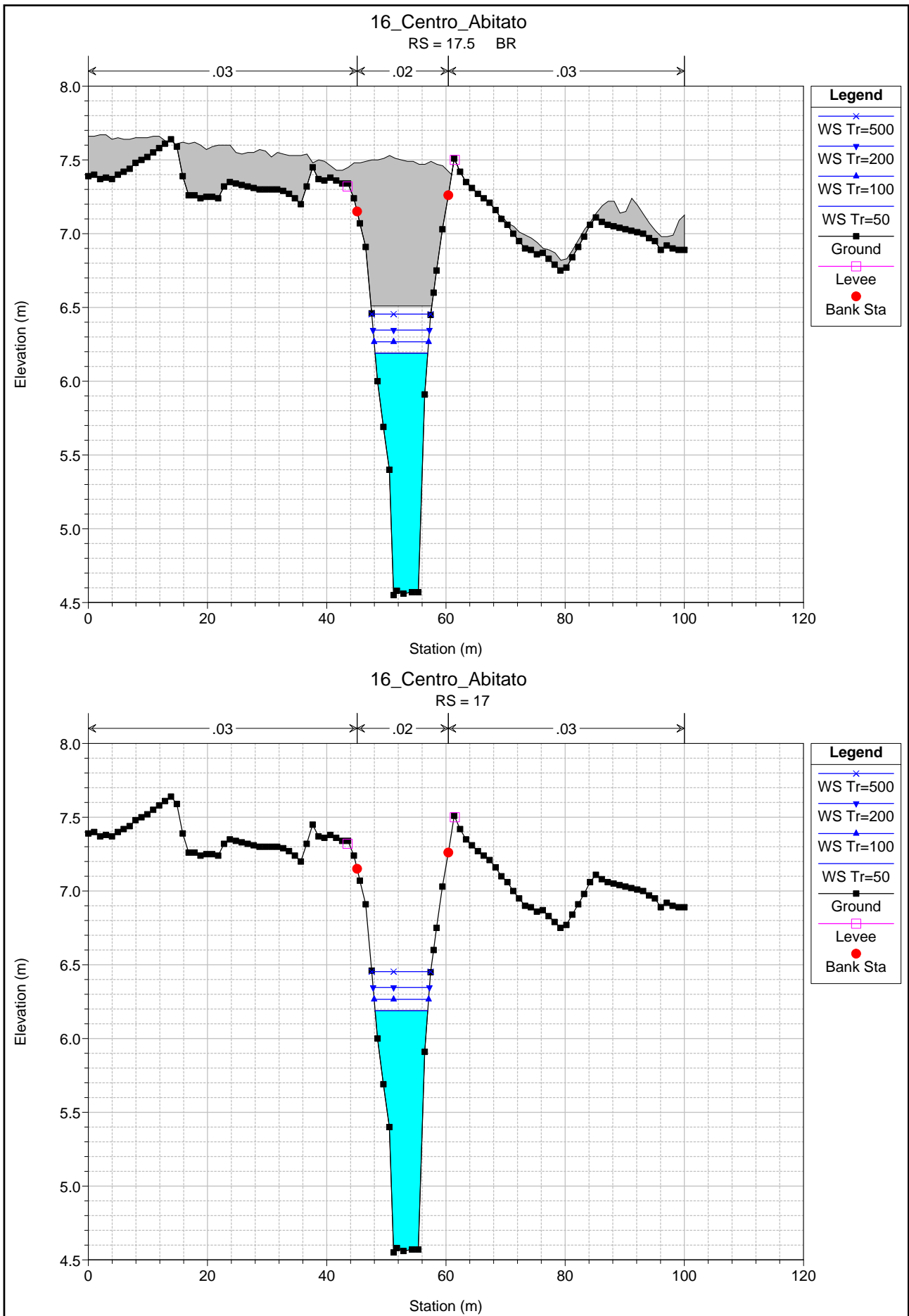


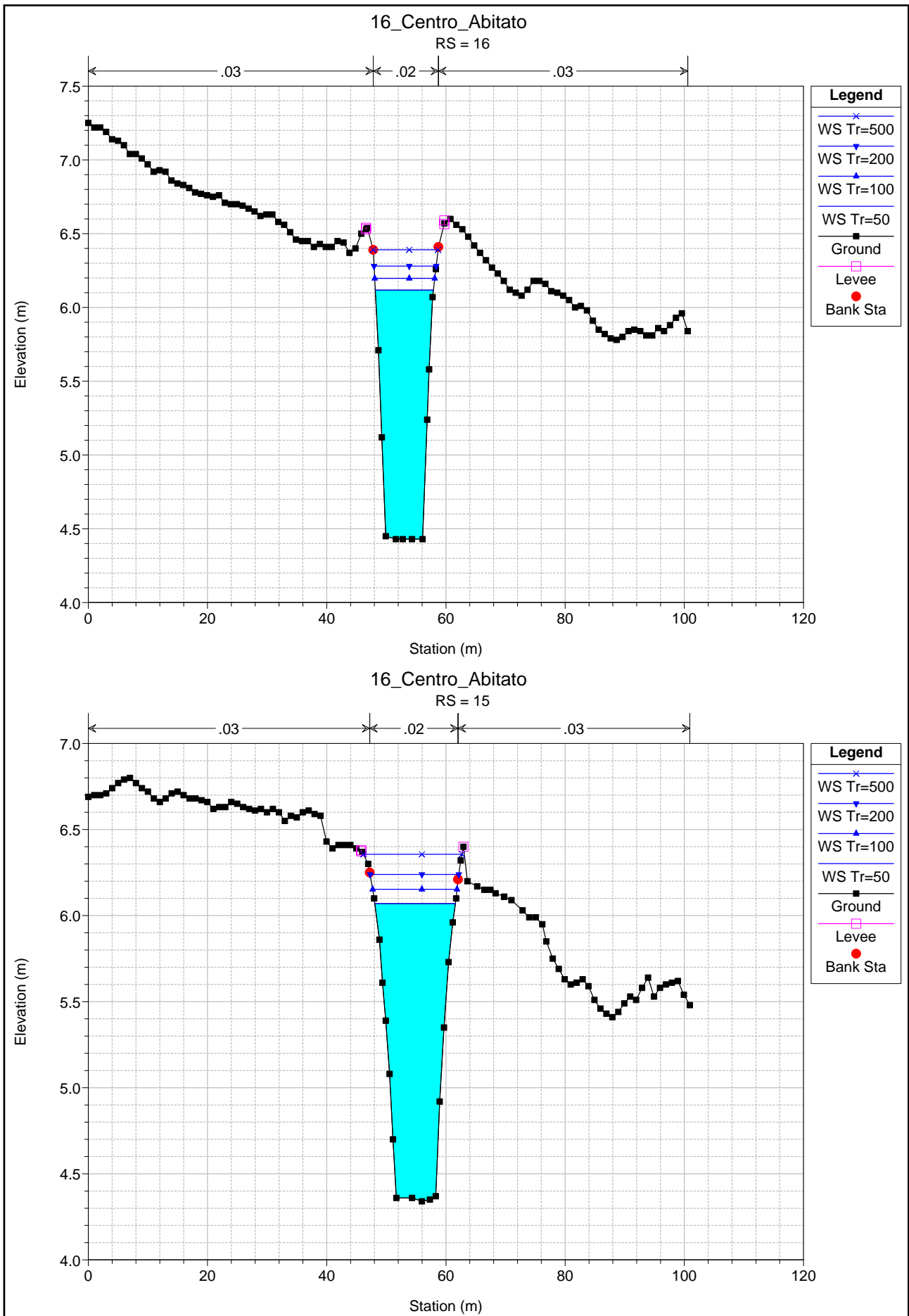


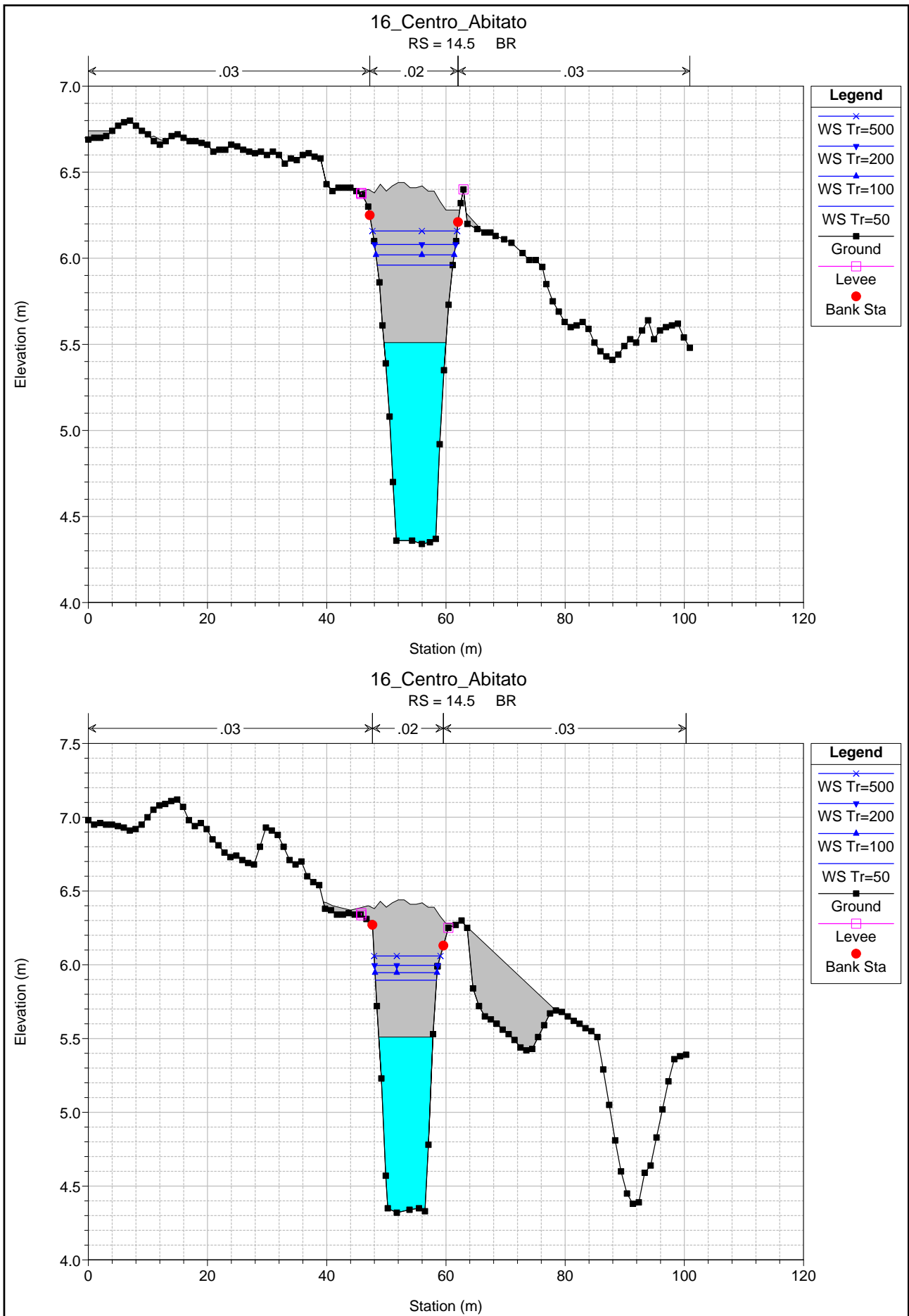


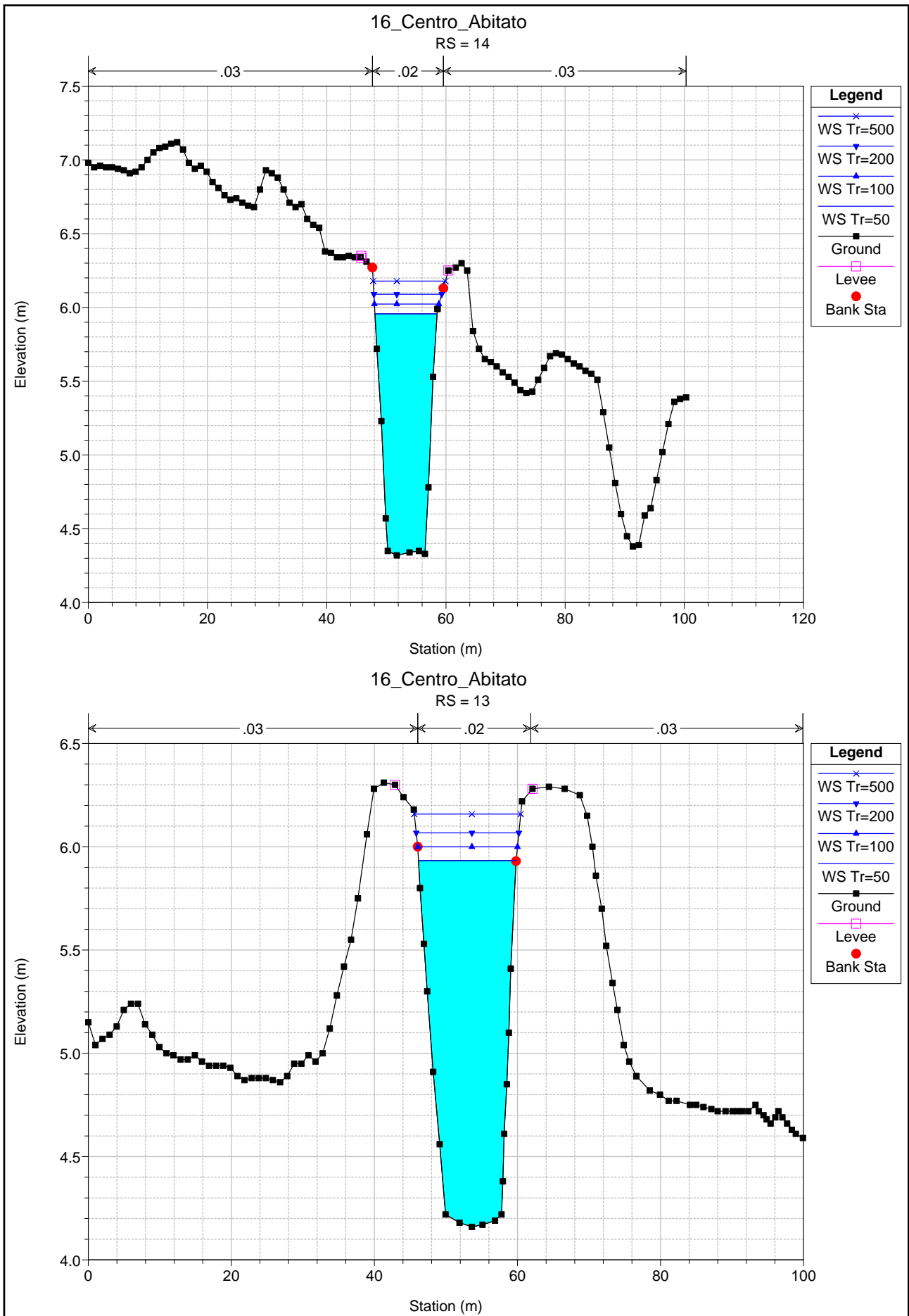


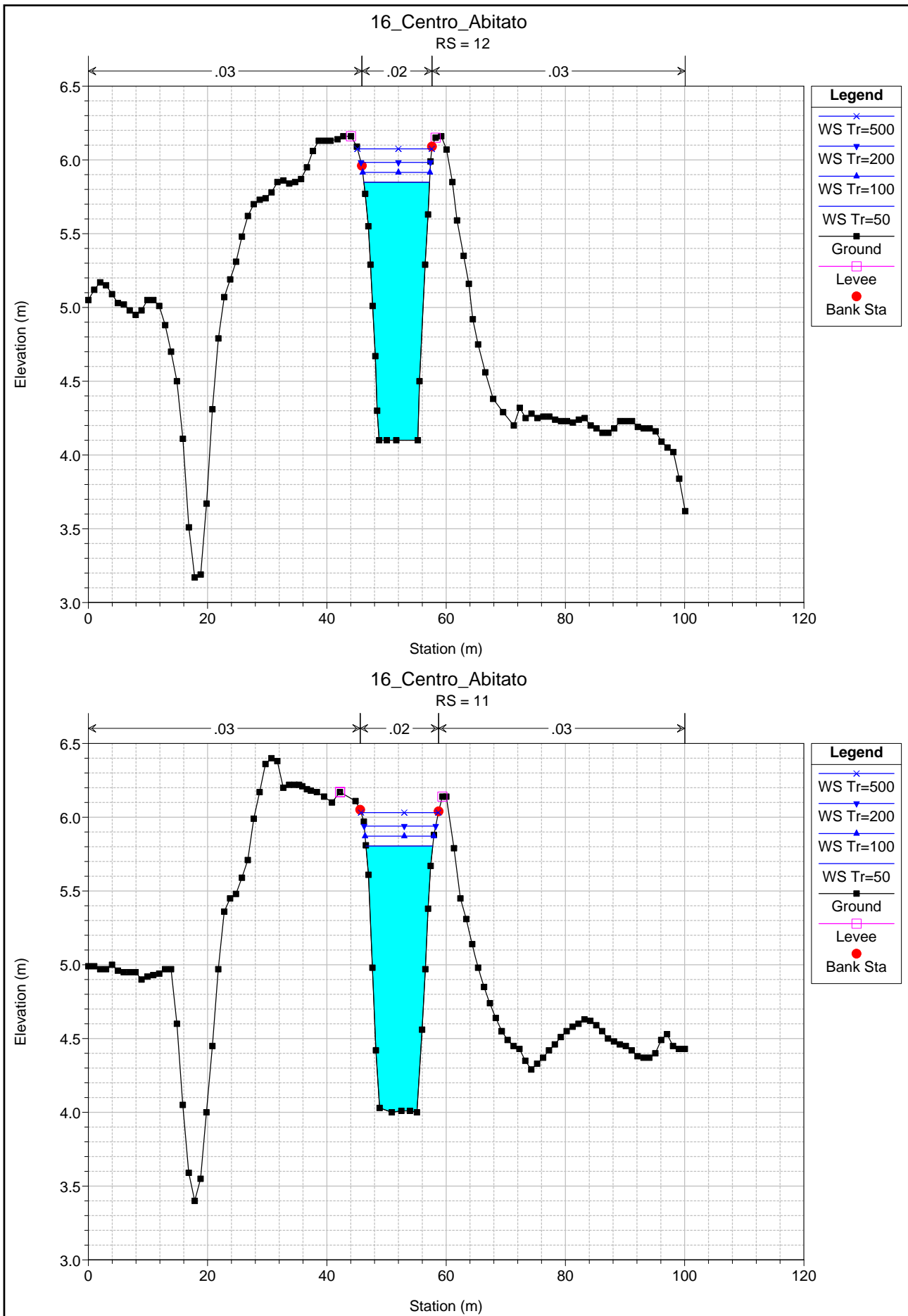


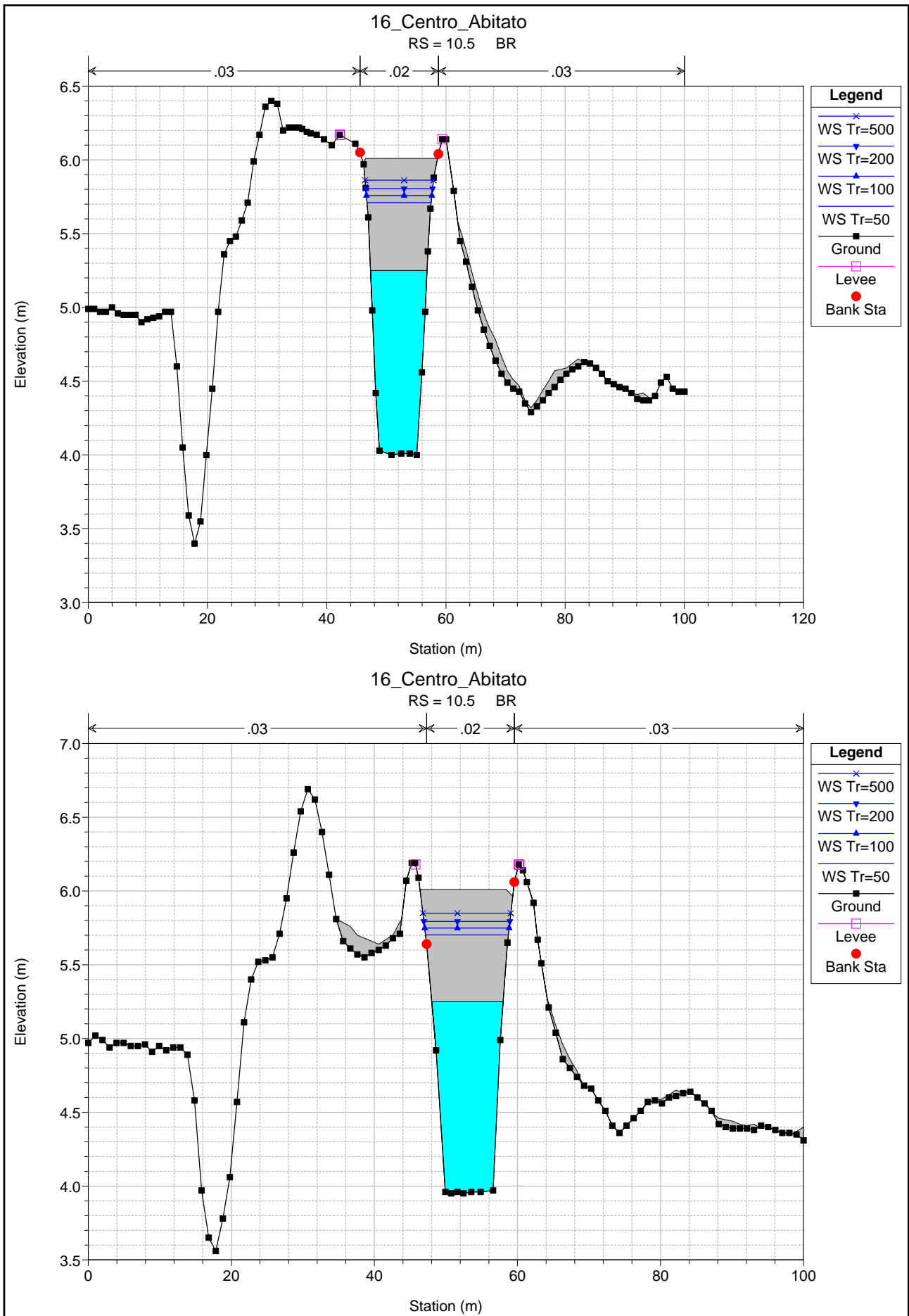


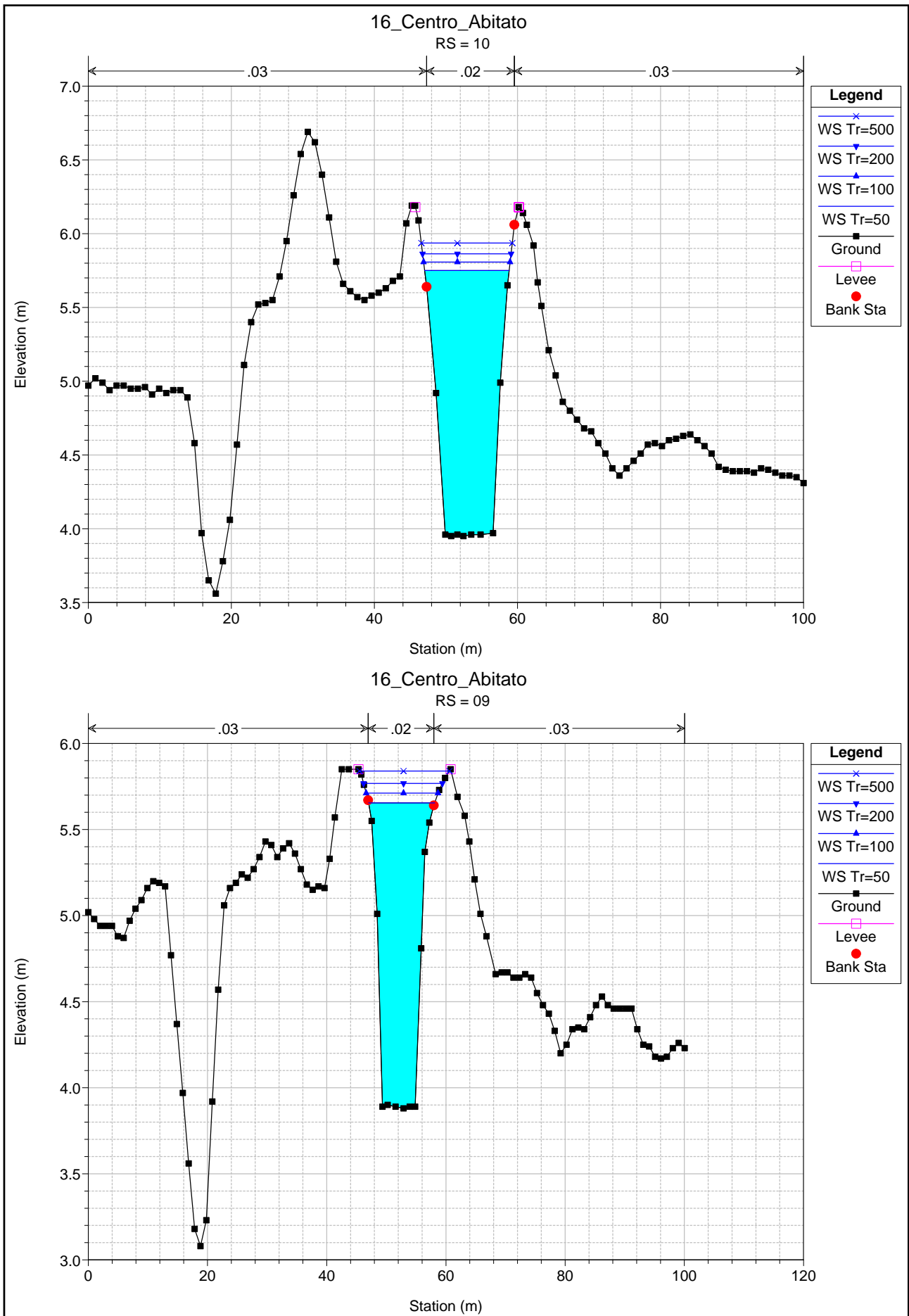


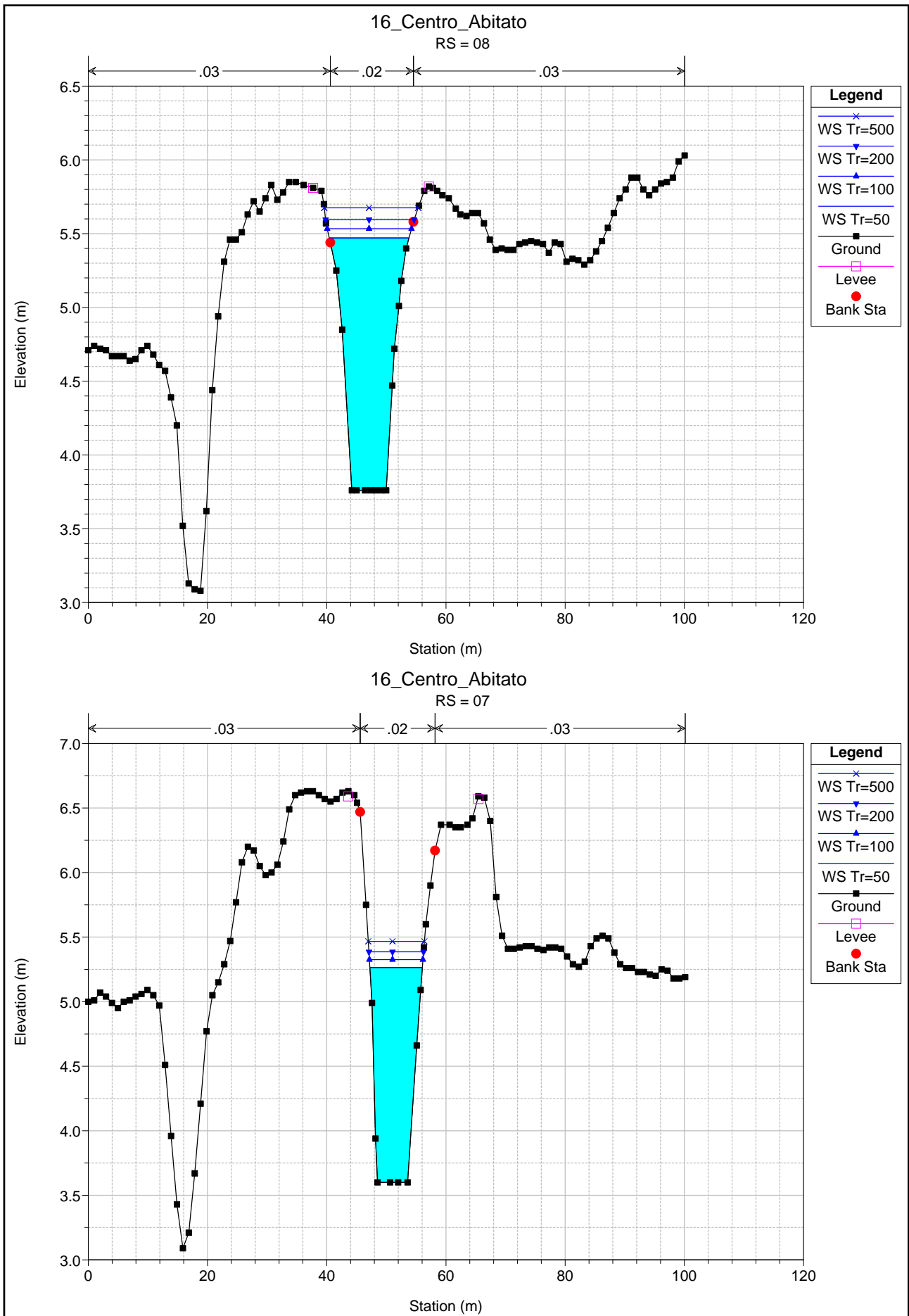


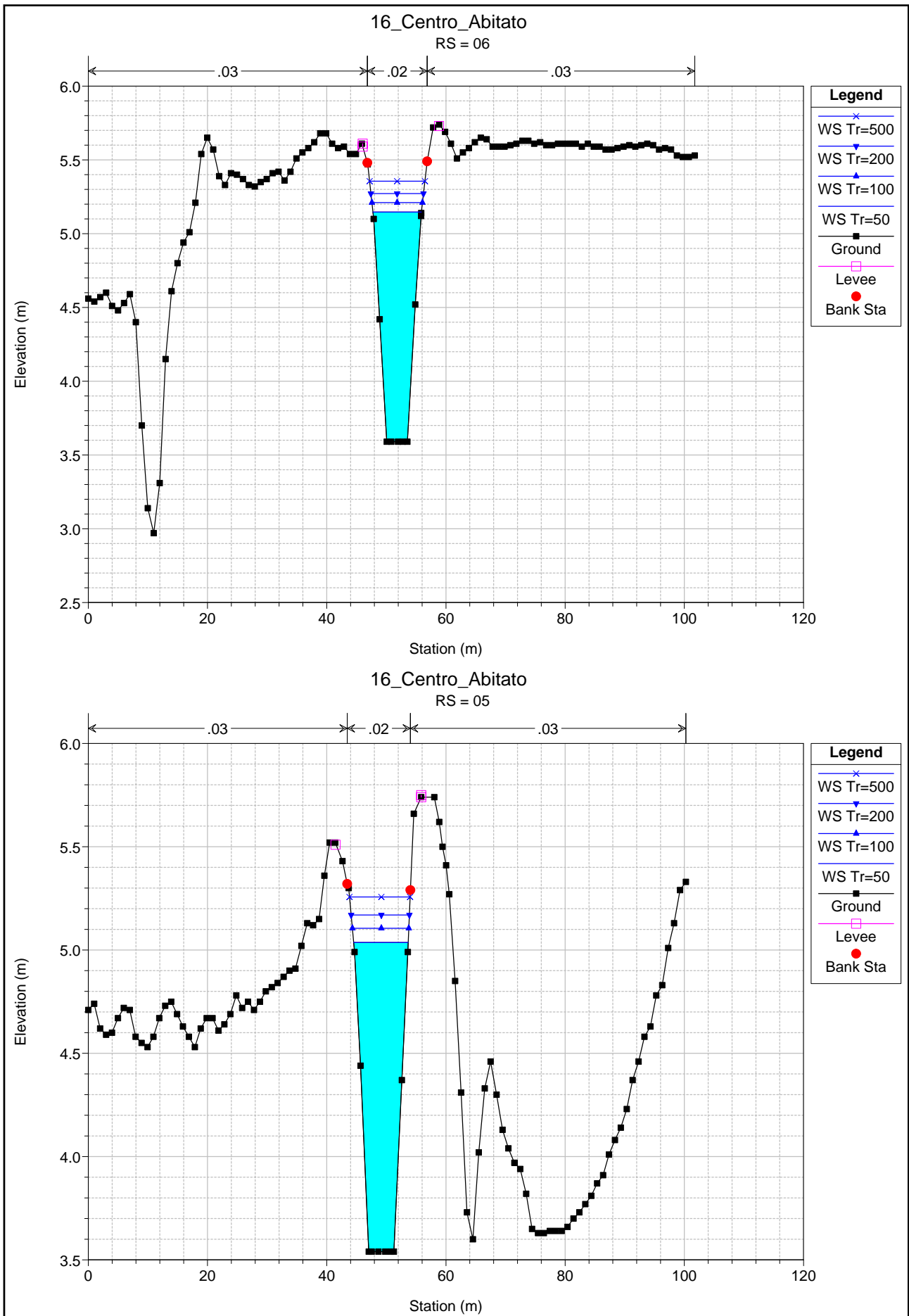


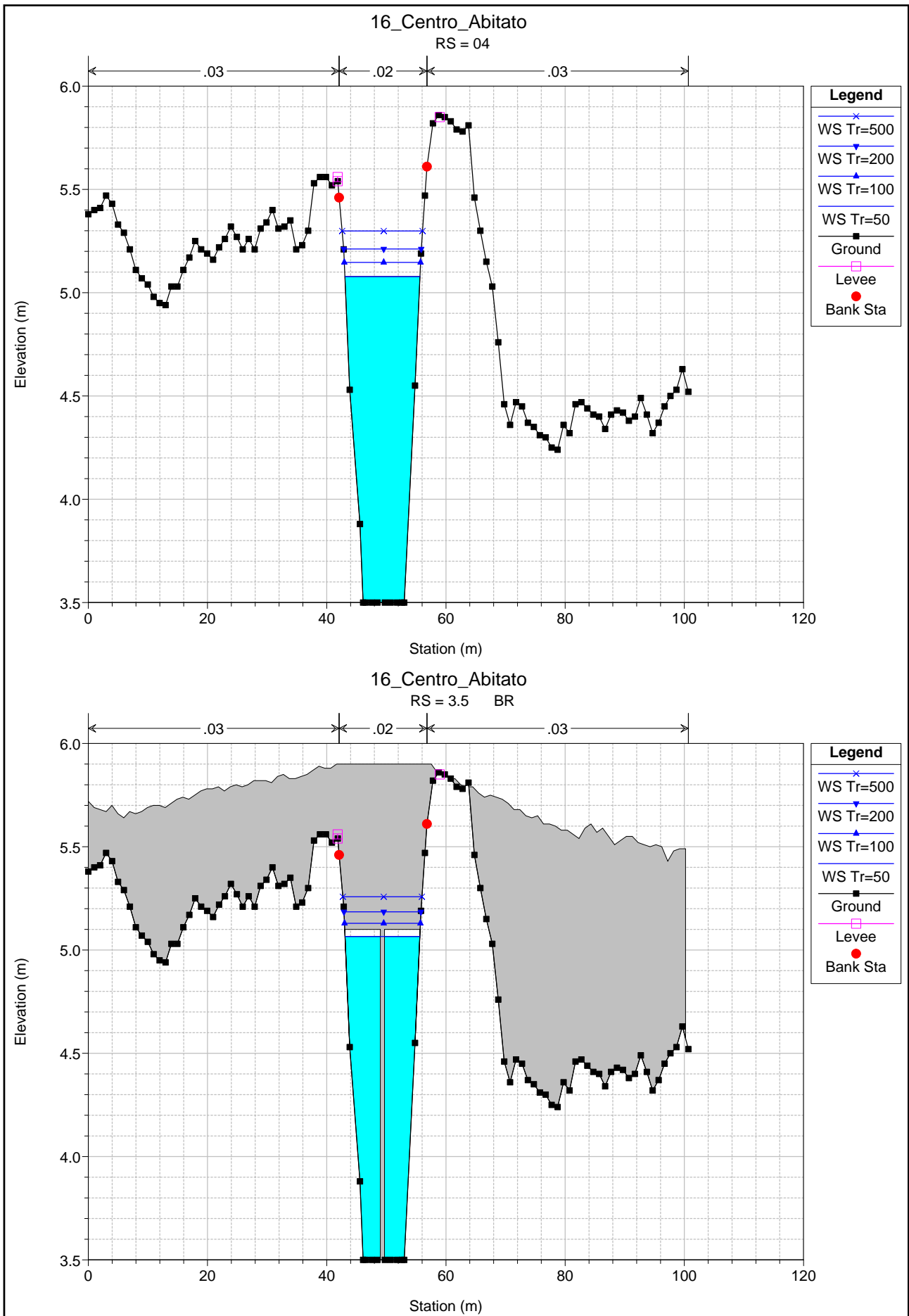


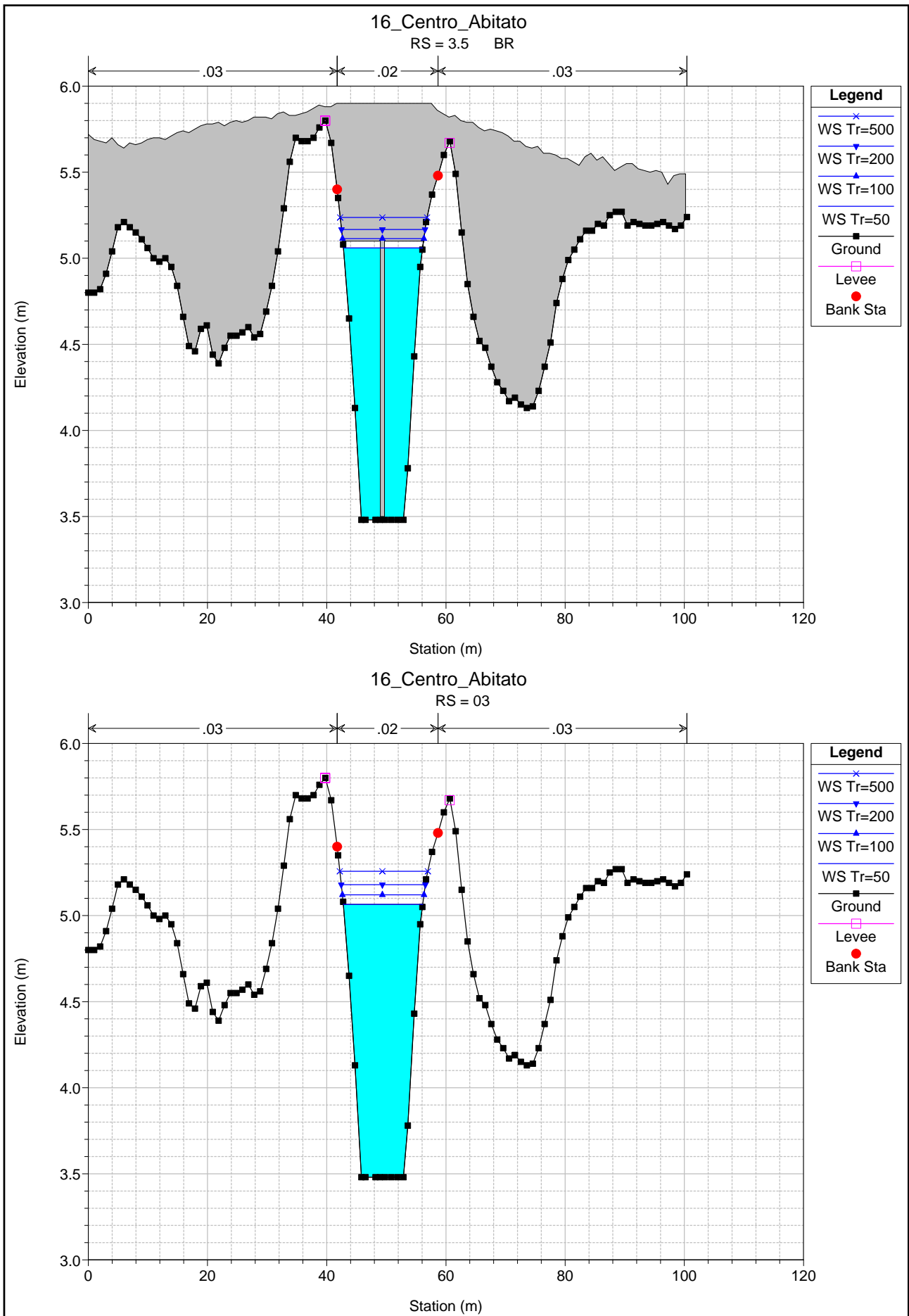


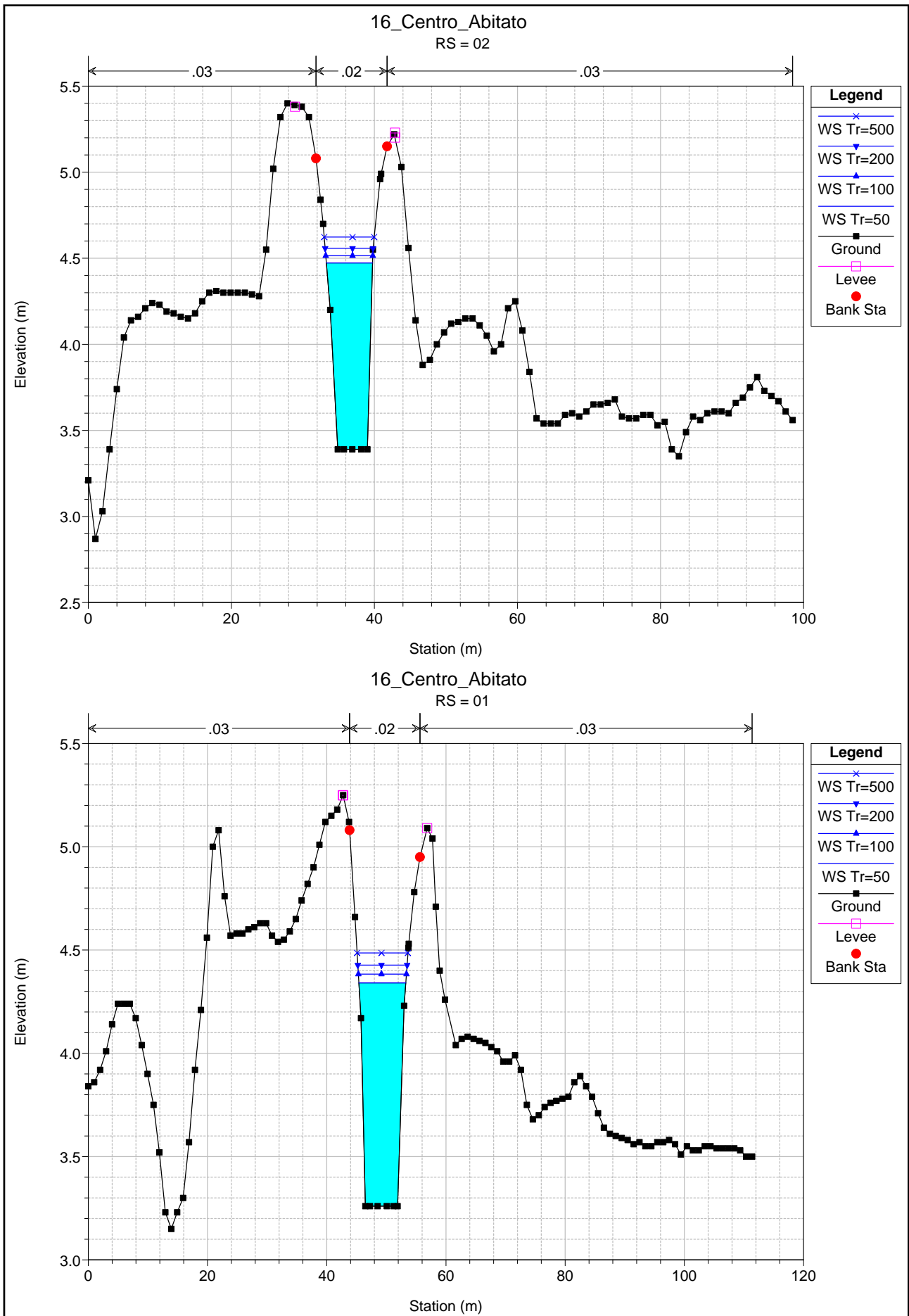






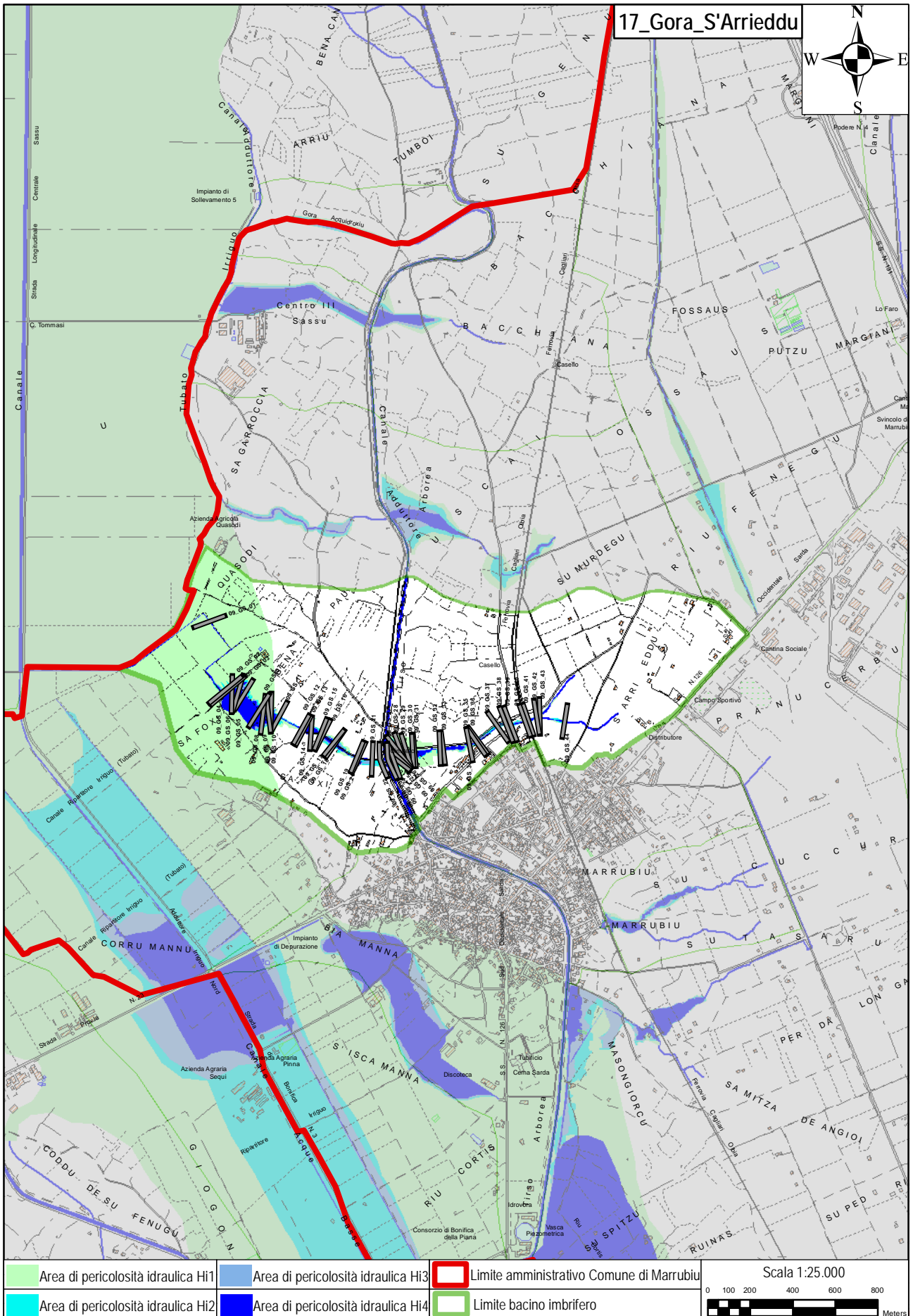






10. Gora s'Arrieddu

Inquadramento



Principali grandezze morfometriche

GORA S'ARRIEDDU – sub-bacino n. 17			
Superficie del bacino	S	2,32	[km ²]
Altitudine massima	H_{max}	18,2	[m slm]
Altitudine minima	H_{min}	- 1,2	[m slm]
Altitudine media	H_{med}	12,6	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	19,4	[m]
Pendenza media del bacino	p_m	2,9	[%]
Lunghezza dell'asta principale	L	3,31	[km]
Pendenza dell'asta principale	i	2,0	[%]
Quota della sezione di chiusura	H_{min}	- 0,9	[m slm]
Curve Number	CN	71,17	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	2,34	[m/s]
Ventura	t_c	1,93	[m/s]
Giandotti	t_c	6,49	[m/s]
Pasini	t_c	1,68	[m/s]
VAPI	t_c	2,22	[m/s]
Viparelli	t_c	0,64	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez 44)	1,12	1,68	2,32	3,31	[m ³ /s]
TCEV (sez. 22)	2,31	3,43	4,73	6,72	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

HEC-RAS Plan: 1 River: Gora SARrieddu Reach: Gora SARrieddu

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gora SARrieddu	44	Tr=50	1.12	10.63	10.94	10.94	11.01	0.013937	1.23	1.01	7.00	0.93
Gora SARrieddu	44	Tr=100	1.68	10.63	10.99	10.99	11.07	0.012421	1.34	1.43	9.26	0.91
Gora SARrieddu	44	Tr=200	2.32	10.63	11.02	11.02	11.13	0.015200	1.58	1.70	10.26	1.03
Gora SARrieddu	44	Tr=500	3.31	10.63	11.07	11.07	11.14	0.010560	1.42	3.24	20.76	0.87
Gora SARrieddu	43	Tr=50	1.12	8.40	8.85	8.82	8.94	0.010276	1.35	0.83	3.15	0.84
Gora SARrieddu	43	Tr=100	1.68	8.40	8.85	8.90	9.06	0.023063	2.02	0.83	3.15	1.26
Gora SARrieddu	43	Tr=200	2.32	8.40	8.95	8.98	9.15	0.017442	1.99	1.17	3.66	1.12
Gora SARrieddu	43	Tr=500	3.31	8.40	9.00	9.08	9.30	0.023115	2.42	1.36	3.92	1.31
Gora SARrieddu	42	Tr=50	1.12	8.24	8.63	8.63	8.72	0.016476	1.28	0.88	5.29	1.00
Gora SARrieddu	42	Tr=100	1.68	8.24	8.70	8.70	8.79	0.016042	1.35	1.25	6.81	1.00
Gora SARrieddu	42	Tr=200	2.32	8.24	8.73	8.75	8.85	0.019552	1.53	1.51	7.89	1.12
Gora SARrieddu	42	Tr=500	3.31	8.24	8.81	8.81	8.92	0.015151	1.46	2.27	10.50	1.00
Gora SARrieddu	41	Tr=50	1.12	7.99	8.27	8.18	8.29	0.003610	0.68	1.66	8.40	0.49
Gora SARrieddu	41	Tr=100	1.68	7.99	8.47	8.23	8.49	0.000819	0.47	3.61	10.48	0.25
Gora SARrieddu	41	Tr=200	2.32	7.99	8.58	8.27	8.59	0.000688	0.49	4.74	11.19	0.24
Gora SARrieddu	41	Tr=500	3.31	7.99	8.61	8.33	8.64	0.001098	0.64	5.14	11.41	0.31
Gora SARrieddu	40.5		Bridge									
Gora SARrieddu	40	Tr=50	1.12	7.48	8.26	7.77	8.27	0.000294	0.38	2.97	5.15	0.16
Gora SARrieddu	40	Tr=100	1.68	7.48	8.47	7.84	8.48	0.000263	0.41	4.11	5.70	0.15
Gora SARrieddu	40	Tr=200	2.32	7.48	8.57	7.90	8.58	0.000342	0.49	4.70	5.96	0.18
Gora SARrieddu	40	Tr=500	3.31	7.48	8.60	7.99	8.62	0.000632	0.68	4.86	6.02	0.24
Gora SARrieddu	39	Tr=50	1.12	7.31	8.22	7.71	8.24	0.000622	0.50	2.23	4.19	0.22
Gora SARrieddu	39	Tr=100	1.68	7.31	8.44	7.81	8.45	0.000482	0.51	3.51	8.76	0.20
Gora SARrieddu	39	Tr=200	2.32	7.31	8.54	7.91	8.55	0.000562	0.59	4.52	12.51	0.22
Gora SARrieddu	39	Tr=500	3.31	7.31	8.52	8.04	8.56	0.001217	0.86	4.37	12.30	0.33
Gora SARrieddu	38.5		Culvert									
Gora SARrieddu	38	Tr=50	1.12	7.20	8.00	7.58	8.01	0.000548	0.44	2.54	5.70	0.21
Gora SARrieddu	38	Tr=100	1.68	7.20	8.14	7.66	8.15	0.000564	0.49	3.43	6.77	0.22
Gora SARrieddu	38	Tr=200	2.32	7.20	8.29	7.74	8.30	0.000501	0.48	5.47	21.41	0.21
Gora SARrieddu	38	Tr=500	3.31	7.20	8.36	7.84	8.37	0.000610	0.58	7.01	24.10	0.24
Gora SARrieddu	37	Tr=50	1.12	7.36	7.85	7.93	7.93	0.008401	1.30	0.86	2.87	0.76
Gora SARrieddu	37	Tr=100	1.68	7.36	8.01	8.09	8.09	0.005311	1.20	1.40	3.77	0.63
Gora SARrieddu	37	Tr=200	2.32	7.36	8.20	8.25	8.25	0.003252	1.00	2.56	13.83	0.50
Gora SARrieddu	37	Tr=500	3.31	7.36	8.08	8.08	8.28	0.013555	1.98	1.67	4.27	1.01
Gora SARrieddu	36	Tr=50	1.12	6.94	7.66	7.32	7.68	0.000910	0.57	2.00	5.91	0.27
Gora SARrieddu	36	Tr=100	1.68	6.94	7.64	7.41	7.68	0.002490	0.91	1.87	5.00	0.44
Gora SARrieddu	36	Tr=200	2.32	6.94	7.56	7.50	7.68	0.008614	1.53	1.51	4.12	0.80
Gora SARrieddu	36	Tr=500	3.31	6.94	7.76	7.60	7.77	0.001021	0.69	7.47	27.90	0.30
Gora SARrieddu	35.5		Culvert									
Gora SARrieddu	35	Tr=50	1.12	6.88	7.45	7.28	7.50	0.003746	1.00	1.30	8.43	0.51
Gora SARrieddu	35	Tr=100	1.68	6.88	7.55	7.45	7.59	0.003073	0.97	2.31	11.54	0.47
Gora SARrieddu	35	Tr=200	2.32	6.88	7.64	7.53	7.67	0.002472	0.92	3.40	13.21	0.43
Gora SARrieddu	35	Tr=500	3.31	6.88	7.74	7.59	7.77	0.001990	0.91	4.84	14.53	0.40
Gora SARrieddu	34	Tr=50	1.12	6.71	7.12	7.12	7.26	0.014804	1.61	0.70	2.62	0.99
Gora SARrieddu	34	Tr=100	1.68	6.71	7.22	7.22	7.37	0.014280	1.77	0.95	3.01	1.00
Gora SARrieddu	34	Tr=200	2.32	6.71	7.30	7.30	7.48	0.013640	1.87	1.24	3.48	1.00
Gora SARrieddu	34	Tr=500	3.31	6.71	7.45	7.43	7.62	0.010264	1.83	1.86	5.60	0.89
Gora SARrieddu	33	Tr=50	1.12	6.05	6.93	6.48	6.93	0.000310	0.37	3.54	13.31	0.16
Gora SARrieddu	33	Tr=100	1.68	6.05	6.97	6.56	6.98	0.000503	0.50	4.13	14.81	0.21
Gora SARrieddu	33	Tr=200	2.32	6.05	6.95	6.63	6.98	0.001064	0.72	3.94	14.41	0.31
Gora SARrieddu	33	Tr=500	3.31	6.05	6.92	6.73	6.98	0.002851	1.12	3.45	12.58	0.50
Gora SARrieddu	32.5		Culvert									
Gora SARrieddu	32	Tr=50	1.12	6.02	6.35	6.32	6.41	0.008579	1.07	1.19	13.64	0.75
Gora SARrieddu	32	Tr=100	1.68	6.02	6.40	6.39	6.46	0.007740	1.14	1.90	16.05	0.73
Gora SARrieddu	32	Tr=200	2.32	6.02	6.43	6.43	6.50	0.008640	1.29	2.39	16.74	0.79
Gora SARrieddu	32	Tr=500	3.31	6.02	6.63	6.47	6.65	0.001505	0.71	6.09	21.02	0.35
Gora SARrieddu	31	Tr=50	1.12	5.34	5.66	5.63	5.68	0.004374	0.78	2.42	27.81	0.53
Gora SARrieddu	31	Tr=100	1.68	5.34	5.70	5.65	5.71	0.004925	0.83	3.42	32.47	0.56
Gora SARrieddu	31	Tr=200	2.32	5.34	5.73	5.69	5.75	0.003928	0.75	4.64	34.10	0.50
Gora SARrieddu	31	Tr=500	3.31	5.34	6.64	5.71	6.64	0.000003	0.05	90.38	136.94	0.02
Gora SARrieddu	30.5		Culvert									
Gora SARrieddu	30	Tr=50	1.12	5.27	5.61	5.57	5.63	0.004642	0.85	2.39	28.73	0.54
Gora SARrieddu	30	Tr=100	1.68	5.27	5.68	5.60	5.69	0.002130	0.63	4.46	33.71	0.38
Gora SARrieddu	30	Tr=200	2.32	5.27	5.74	5.64	5.74	0.001333	0.55	6.60	37.09	0.30
Gora SARrieddu	30	Tr=500	3.31	5.27	6.64	5.66	6.64	0.000003	0.06	67.81	78.38	0.02

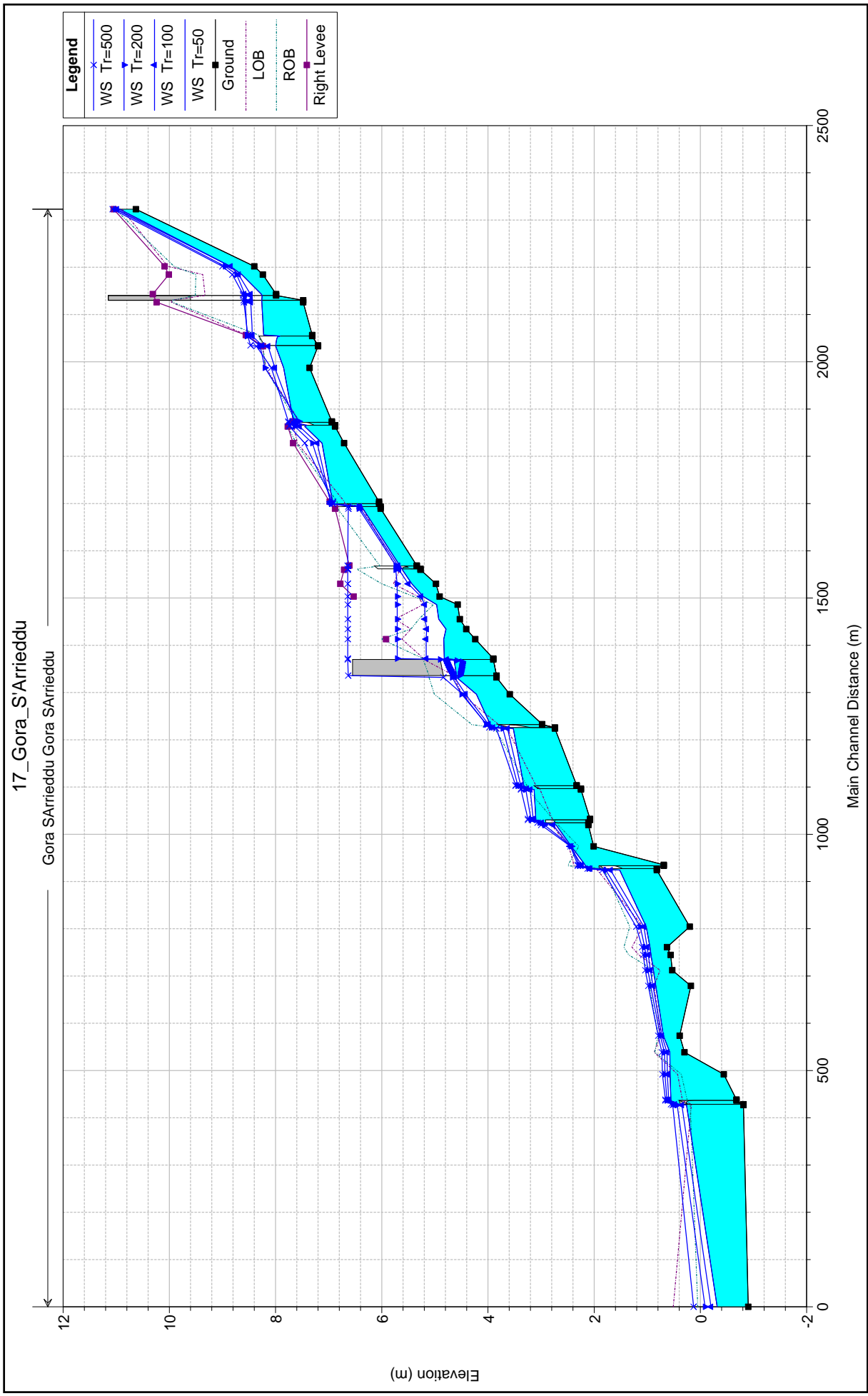
HEC-RAS Plan: 1 River: Gora SARrieddu Reach: Gora SARrieddu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gora SARrieddu	29	Tr=50	1.12	4.98	5.43	5.33	5.49	0.004963	1.02	1.09	3.61	0.59
Gora SARrieddu	29	Tr=100	1.68	4.98	5.50	5.41	5.58	0.006271	1.25	1.36	6.02	0.68
Gora SARrieddu	29	Tr=200	2.32	4.98	5.71	5.58	5.72	0.000630	0.48	8.06	40.73	0.23
Gora SARrieddu	29	Tr=500	3.31	4.98	6.64	5.62	6.64	0.000002	0.06	78.39	83.49	0.02
Gora SARrieddu	28	Tr=50	1.12	4.91	5.22	5.22	5.28	0.012845	1.21	1.09	8.13	0.90
Gora SARrieddu	28	Tr=100	1.68	4.91	5.26	5.26	5.34	0.013474	1.31	1.50	9.65	0.94
Gora SARrieddu	28	Tr=200	2.32	4.91	5.71	5.31	5.71	0.000127	0.25	13.44	66.89	0.11
Gora SARrieddu	28	Tr=500	3.31	4.91	6.64	5.35	6.64	0.000001	0.03	164.99	187.29	0.01
Gora SARrieddu	27	Tr=50	1.12	4.57	4.97	4.88	4.97	0.000717	0.34	5.30	48.11	0.22
Gora SARrieddu	27	Tr=100	1.68	4.57	5.19	4.91	5.19	0.000044	0.11	20.63	76.45	0.06
Gora SARrieddu	27	Tr=200	2.32	4.57	5.71	5.71	5.71	0.000002	0.05	64.54	137.42	0.02
Gora SARrieddu	27	Tr=500	3.31	4.57	6.64	6.64	6.64	0.000000	0.02	228.64	181.14	0.00
Gora SARrieddu	26	Tr=50	1.12	4.53	4.93	4.93	4.94	0.001273	0.50	2.66	16.59	0.30
Gora SARrieddu	26	Tr=100	1.68	4.53	5.19	5.19	5.19	0.000143	0.23	11.55	55.95	0.11
Gora SARrieddu	26	Tr=200	2.32	4.53	5.71	5.71	5.71	0.000005	0.07	45.26	97.50	0.02
Gora SARrieddu	26	Tr=500	3.31	4.53	6.64	6.64	6.64	0.000000	0.02	188.09	159.96	0.01
Gora SARrieddu	25	Tr=50	1.12	4.41	4.79	4.79	4.88	0.009362	1.29	0.87	3.26	0.80
Gora SARrieddu	25	Tr=100	1.68	4.41	5.15	5.15	5.18	0.001336	0.70	2.39	5.15	0.33
Gora SARrieddu	25	Tr=200	2.32	4.41	5.71	5.71	5.71	0.000024	0.13	29.62	88.57	0.05
Gora SARrieddu	25	Tr=500	3.31	4.41	6.64	6.64	6.64	0.000000	0.03	154.43	141.61	0.01
Gora SARrieddu	24	Tr=50	1.12	4.24	4.83	4.44	4.84	0.000199	0.25	4.43	11.13	0.13
Gora SARrieddu	24	Tr=100	1.68	4.24	5.17	4.49	5.17	0.000069	0.19	8.99	16.06	0.08
Gora SARrieddu	24	Tr=200	2.32	4.24	5.71	4.54	5.71	0.000014	0.12	19.60	27.36	0.04
Gora SARrieddu	24	Tr=500	3.31	4.24	6.64	4.60	6.64	0.000000	0.02	205.76	167.75	0.01
Gora SARrieddu	23	Tr=50	1.12	3.90	4.82	4.27	4.83	0.000254	0.34	3.32	6.24	0.15
Gora SARrieddu	23	Tr=100	1.68	3.90	5.16	4.35	5.16	0.000104	0.24	9.43	34.46	0.10
Gora SARrieddu	23	Tr=200	2.32	3.90	5.71	4.42	5.71	0.000007	0.09	45.88	121.57	0.03
Gora SARrieddu	23	Tr=500	3.31	3.90	6.64	4.52	6.64	0.000000	0.03	194.26	169.67	0.01
Gora SARrieddu	22.5		Culvert									
Gora SARrieddu	22	Tr=50	2.31	3.84	4.59	4.59	4.66	0.003561	1.12	2.12	6.92	0.53
Gora SARrieddu	22	Tr=100	3.43	3.84	4.63	4.52	4.74	0.006159	1.52	2.40	8.09	0.71
Gora SARrieddu	22	Tr=200	4.73	3.84	4.67	4.66	4.85	0.008571	1.87	2.80	10.20	0.84
Gora SARrieddu	22	Tr=500	6.72	3.84	4.84	4.84	4.95	0.004974	1.65	5.98	29.35	0.66
Gora SARrieddu	21	Tr=50	2.31	3.59	4.22	4.22	4.42	0.014364	1.98	1.17	3.04	1.02
Gora SARrieddu	21	Tr=100	3.43	3.59	4.42	4.42	4.52	0.006197	1.51	3.25	19.92	0.69
Gora SARrieddu	21	Tr=200	4.73	3.59	4.50	4.50	4.58	0.005572	1.48	4.92	25.15	0.66
Gora SARrieddu	21	Tr=500	6.72	3.59	4.48	4.54	4.68	0.013181	2.28	4.52	24.30	1.02
Gora SARrieddu	20	Tr=50	2.31	2.98	3.96	3.56	3.98	0.000870	0.66	4.95	31.52	0.27
Gora SARrieddu	20	Tr=100	3.43	2.98	3.99	3.68	4.02	0.001442	0.87	6.00	34.35	0.36
Gora SARrieddu	20	Tr=200	4.73	2.98	4.03	3.81	4.07	0.001904	1.03	7.26	35.16	0.41
Gora SARrieddu	20	Tr=500	6.72	2.98	4.04	4.01	4.11	0.003565	1.42	7.55	35.82	0.56
Gora SARrieddu	19.5		Culvert									
Gora SARrieddu	19	Tr=50	2.31	2.74	3.52	3.52	3.59	0.004102	1.18	1.96	4.36	0.56
Gora SARrieddu	19	Tr=100	3.43	2.74	3.63	3.63	3.73	0.005028	1.39	2.47	5.07	0.63
Gora SARrieddu	19	Tr=200	4.73	2.74	3.72	3.72	3.85	0.005776	1.57	3.18	9.20	0.69
Gora SARrieddu	19	Tr=500	6.72	2.74	3.84	3.76	3.98	0.005448	1.69	4.79	24.68	0.69
Gora SARrieddu	18	Tr=50	2.31	2.33	3.33	2.89	3.35	0.001106	0.69	4.31	21.28	0.30
Gora SARrieddu	18	Tr=100	3.43	2.33	3.38	3.06	3.41	0.001451	0.84	5.64	25.05	0.35
Gora SARrieddu	18	Tr=200	4.73	2.33	3.44	3.24	3.48	0.001709	0.97	7.17	29.89	0.39
Gora SARrieddu	18	Tr=500	6.72	2.33	3.48	3.37	3.53	0.002431	1.21	8.45	32.09	0.46
Gora SARrieddu	17.5		Culvert									
Gora SARrieddu	17	Tr=50	2.31	2.25	3.13	3.13	3.20	0.003827	1.16	2.11	8.63	0.55
Gora SARrieddu	17	Tr=100	3.43	2.25	3.20	3.16	3.29	0.004609	1.36	3.33	23.55	0.61
Gora SARrieddu	17	Tr=200	4.73	2.25	3.29	3.29	3.35	0.004006	1.29	5.58	30.37	0.57
Gora SARrieddu	17	Tr=500	6.72	2.25	3.38	3.38	3.43	0.003085	1.26	8.48	34.06	0.52
Gora SARrieddu	16	Tr=50	2.31	2.08	3.10	2.64	3.12	0.000518	0.58	5.43	22.44	0.22
Gora SARrieddu	16	Tr=100	3.43	2.08	3.15	2.76	3.17	0.000793	0.76	6.57	23.70	0.28
Gora SARrieddu	16	Tr=200	4.73	2.08	3.19	2.86	3.23	0.001100	0.92	7.64	26.16	0.33
Gora SARrieddu	16	Tr=500	6.72	2.08	3.25	3.07	3.30	0.001583	1.16	9.22	30.05	0.40
Gora SARrieddu	15.5		Culvert									
Gora SARrieddu	15	Tr=50	2.31	2.11	2.72	2.67	2.83	0.009006	1.49	1.56	5.05	0.82
Gora SARrieddu	15	Tr=100	3.43	2.11	2.78	2.78	2.95	0.012215	1.87	1.87	5.94	0.97
Gora SARrieddu	15	Tr=200	4.73	2.11	2.94	2.94	3.03	0.004945	1.49	4.73	29.56	0.65
Gora SARrieddu	15	Tr=500	6.72	2.11	3.00	3.00	3.10	0.005082	1.63	6.65	33.98	0.68
Gora SARrieddu	14	Tr=50	2.31	2.01	2.43	2.43	2.47	0.006482	1.09	4.42	66.44	0.68
Gora SARrieddu	14	Tr=100	3.43	2.01	2.45	2.45	2.49	0.007354	1.20	5.92	72.64	0.73

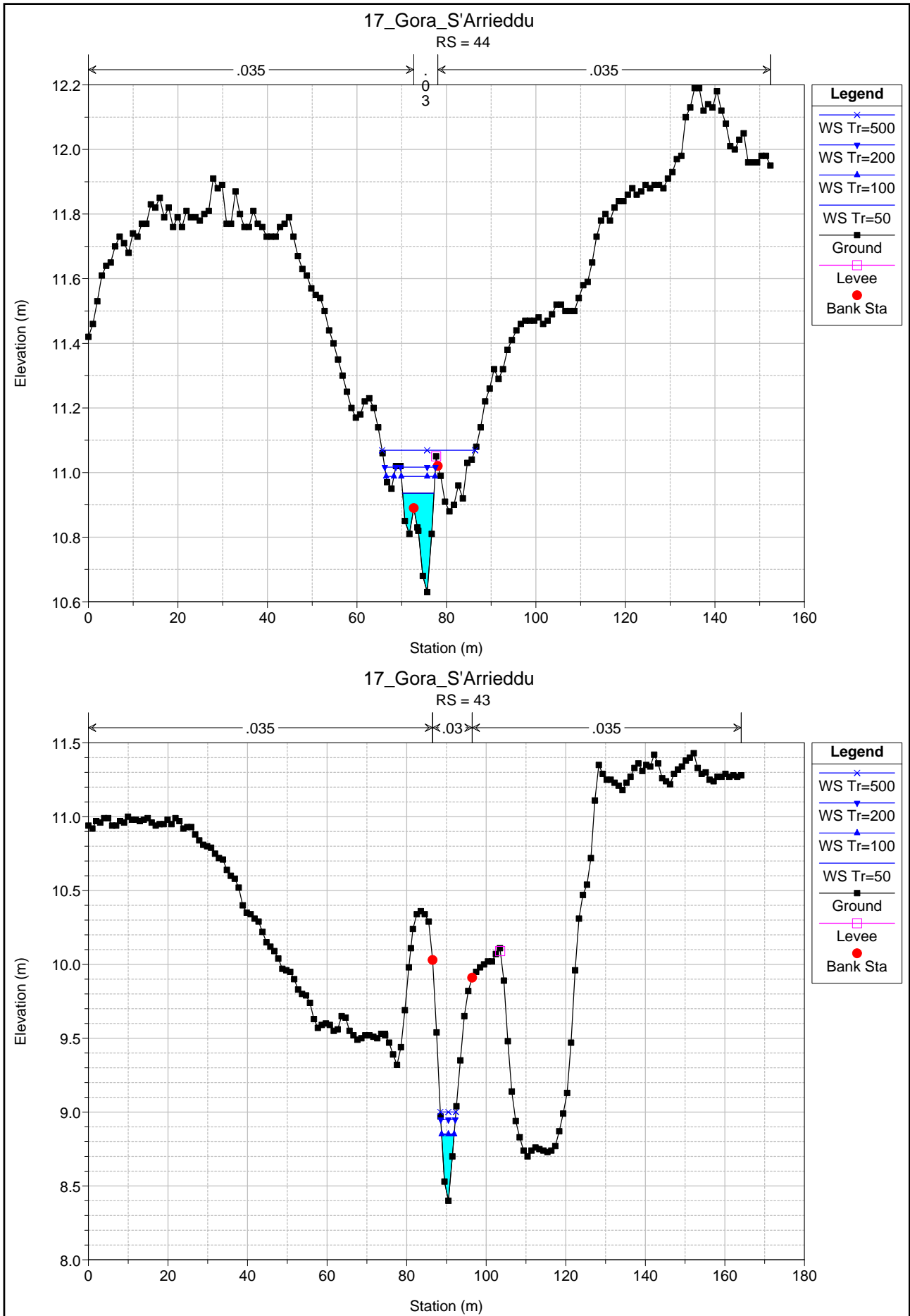
HEC-RAS Plan: 1 River: Gora SARrieddu Reach: Gora SARrieddu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Gora SARrieddu	14	Tr=200	4.73	2.01	2.43	2.47	2.58	0.028142	2.26	4.35	66.21	1.41
Gora SARrieddu	14	Tr=500	6.72	2.01	2.45	2.49	2.61	0.033275	2.53	5.49	71.85	1.55
Gora SARrieddu	13	Tr=50	2.31	0.69	2.17	1.28	2.18	0.000222	0.41	6.49	21.08	0.14
Gora SARrieddu	13	Tr=100	3.43	0.69	2.24	1.41	2.25	0.000363	0.53	8.39	35.71	0.18
Gora SARrieddu	13	Tr=200	4.73	0.69	2.28	1.53	2.30	0.000568	0.67	10.13	52.90	0.23
Gora SARrieddu	13	Tr=500	6.72	0.69	2.31	1.69	2.34	0.000958	0.88	11.91	69.52	0.30
Gora SARrieddu	12.5		Culvert									
Gora SARrieddu	12	Tr=50	2.31	0.82	1.52		1.63	0.006902	1.44	1.60	3.99	0.73
Gora SARrieddu	12	Tr=100	3.43	0.82	1.69		1.80	0.005429	1.44	2.38	4.95	0.66
Gora SARrieddu	12	Tr=200	4.73	0.82	1.78		1.92	0.006450	1.66	2.85	5.45	0.73
Gora SARrieddu	12	Tr=500	6.72	0.82	1.85	1.80	2.07	0.009371	2.10	3.21	6.15	0.90
Gora SARrieddu	11	Tr=50	2.31	0.20	1.02		1.08	0.003115	1.04	2.24	6.25	0.50
Gora SARrieddu	11	Tr=100	3.43	0.20	1.06	0.91	1.16	0.005198	1.37	2.76	19.86	0.65
Gora SARrieddu	11	Tr=200	4.73	0.20	1.13	1.13	1.23	0.005064	1.45	4.68	34.53	0.65
Gora SARrieddu	11	Tr=500	6.72	0.20	1.21	1.21	1.29	0.004377	1.45	7.72	48.41	0.62
Gora SARrieddu	10	Tr=50	2.31	0.63	0.95		0.96	0.001871	0.50	6.43	44.95	0.35
Gora SARrieddu	10	Tr=100	3.43	0.63	1.00		1.01	0.001753	0.55	9.02	55.40	0.35
Gora SARrieddu	10	Tr=200	4.73	0.63	1.05	0.92	1.06	0.001609	0.57	11.62	60.04	0.34
Gora SARrieddu	10	Tr=500	6.72	0.63	1.10	0.95	1.11	0.001617	0.62	14.78	66.35	0.35
Gora SARrieddu	09	Tr=50	2.31	0.56	0.93		0.94	0.000931	0.43	7.90	46.51	0.26
Gora SARrieddu	09	Tr=100	3.43	0.56	0.98		0.99	0.001036	0.49	10.53	56.54	0.28
Gora SARrieddu	09	Tr=200	4.73	0.56	1.03		1.04	0.001066	0.53	13.20	61.39	0.29
Gora SARrieddu	09	Tr=500	6.72	0.56	1.08		1.09	0.001173	0.59	16.32	64.83	0.31
Gora SARrieddu	08	Tr=50	2.31	0.53	0.88		0.89	0.002132	0.51	6.36	54.92	0.37
Gora SARrieddu	08	Tr=100	3.43	0.53	0.94		0.95	0.001501	0.51	9.95	67.55	0.32
Gora SARrieddu	08	Tr=200	4.73	0.53	0.99		1.00	0.001393	0.55	13.41	80.53	0.32
Gora SARrieddu	08	Tr=500	6.72	0.53	1.04		1.05	0.001356	0.60	17.92	101.35	0.33
Gora SARrieddu	07	Tr=50	2.31	0.18	0.84		0.85	0.000780	0.49	5.81	35.38	0.25
Gora SARrieddu	07	Tr=100	3.43	0.18	0.89		0.91	0.001003	0.58	8.30	61.11	0.29
Gora SARrieddu	07	Tr=200	4.73	0.18	0.94		0.95	0.001172	0.66	11.33	80.86	0.32
Gora SARrieddu	07	Tr=500	6.72	0.18	0.98		1.00	0.001339	0.75	15.46	101.81	0.34
Gora SARrieddu	06	Tr=50	2.31	0.39	0.70	0.63	0.71	0.003031	0.50	6.47	76.99	0.42
Gora SARrieddu	06	Tr=100	3.43	0.39	0.73		0.74	0.003104	0.52	8.81	86.17	0.43
Gora SARrieddu	06	Tr=200	4.73	0.39	0.76		0.77	0.003035	0.55	11.45	95.17	0.43
Gora SARrieddu	06	Tr=500	6.72	0.39	0.80		0.81	0.002651	0.54	15.24	100.55	0.41
Gora SARrieddu	05	Tr=50	2.31	0.30	0.58		0.59	0.003811	0.67	5.42	58.59	0.49
Gora SARrieddu	05	Tr=100	3.43	0.30	0.63		0.64	0.002437	0.60	9.02	72.89	0.41
Gora SARrieddu	05	Tr=200	4.73	0.30	0.68		0.68	0.001788	0.55	12.68	85.85	0.35
Gora SARrieddu	05	Tr=500	6.72	0.30	0.73		0.73	0.001598	0.56	17.26	100.91	0.34
Gora SARrieddu	04	Tr=50	2.31	-0.44	0.57		0.57	0.000078	0.21	22.42	128.56	0.09
Gora SARrieddu	04	Tr=100	3.43	-0.44	0.62		0.62	0.000091	0.23	29.56	147.33	0.09
Gora SARrieddu	04	Tr=200	4.73	-0.44	0.67		0.67	0.000110	0.27	36.39	158.94	0.10
Gora SARrieddu	04	Tr=500	6.72	-0.44	0.72		0.72	0.000128	0.30	44.02	160.64	0.11
Gora SARrieddu	03	Tr=50	2.31	-0.68	0.56	-0.19	0.56	0.000234	0.44	6.67	34.74	0.15
Gora SARrieddu	03	Tr=100	3.43	-0.68	0.60	-0.08	0.61	0.000393	0.59	8.29	41.65	0.20
Gora SARrieddu	03	Tr=200	4.73	-0.68	0.63	0.03	0.66	0.000605	0.75	9.89	54.10	0.25
Gora SARrieddu	03	Tr=500	6.72	-0.68	0.66	0.17	0.70	0.000986	0.98	11.47	58.68	0.32
Gora SARrieddu	2.5		Culvert									
Gora SARrieddu	02	Tr=50	2.31	-0.81	0.26		0.27	0.000306	0.41	9.85	60.67	0.17
Gora SARrieddu	02	Tr=100	3.43	-0.81	0.35		0.35	0.000251	0.40	15.36	65.28	0.15
Gora SARrieddu	02	Tr=200	4.73	-0.81	0.44	-0.06	0.44	0.000210	0.40	21.78	81.24	0.14
Gora SARrieddu	02	Tr=500	6.72	-0.81	0.52		0.53	0.000214	0.43	28.93	87.52	0.15
Gora SARrieddu	01	Tr=50	2.31	-0.90	-0.31	-0.31	-0.14	0.013906	1.84	1.26	3.74	1.01
Gora SARrieddu	01	Tr=100	3.43	-0.90	-0.20	-0.20	0.00	0.013170	1.99	1.72	4.33	1.01
Gora SARrieddu	01	Tr=200	4.73	-0.90	-0.09	-0.09	0.14	0.012537	2.11	2.24	5.39	1.01
Gora SARrieddu	01	Tr=500	6.72	-0.90	0.13	0.13	0.26	0.005881	1.70	5.33	26.54	0.72

Profilo

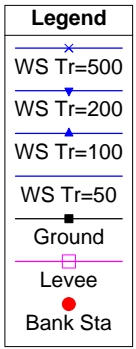
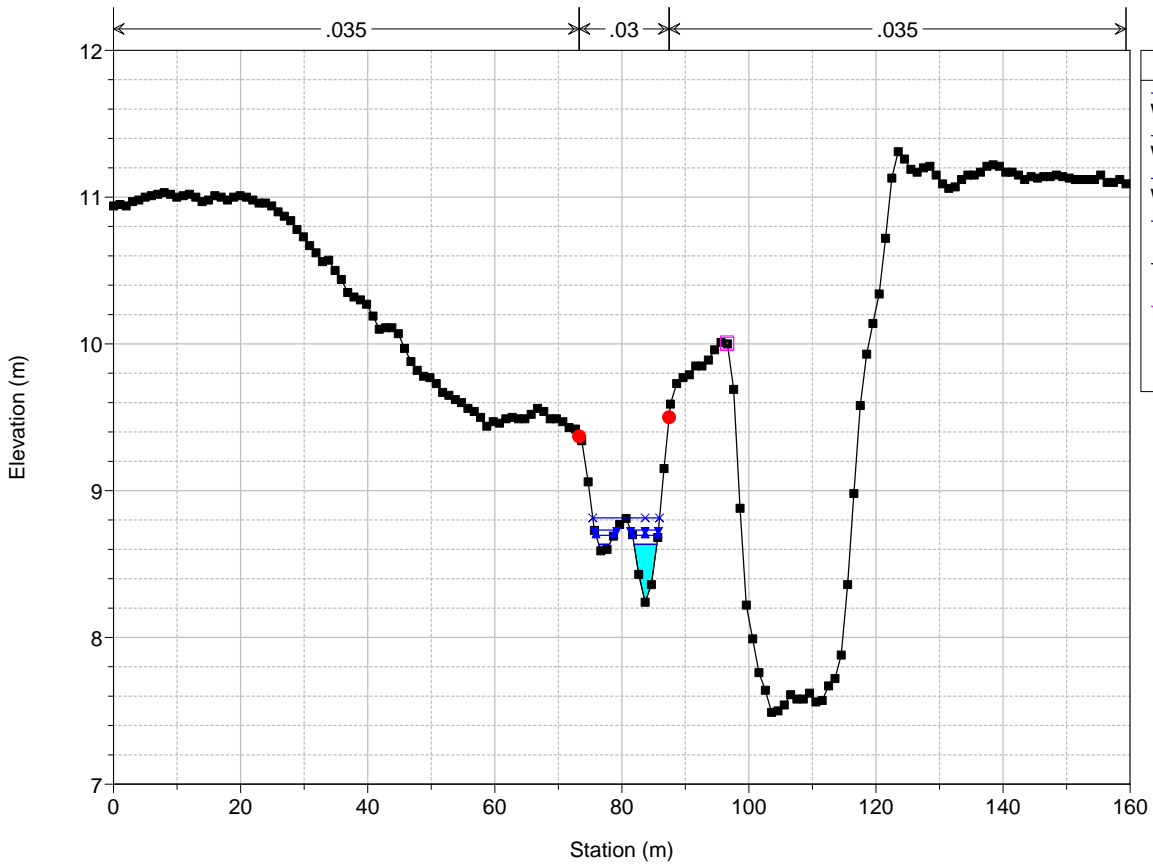


Sezioni fluviali relative ai tempi di ritorno considerati



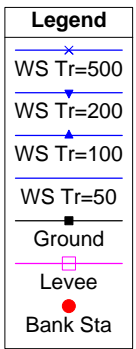
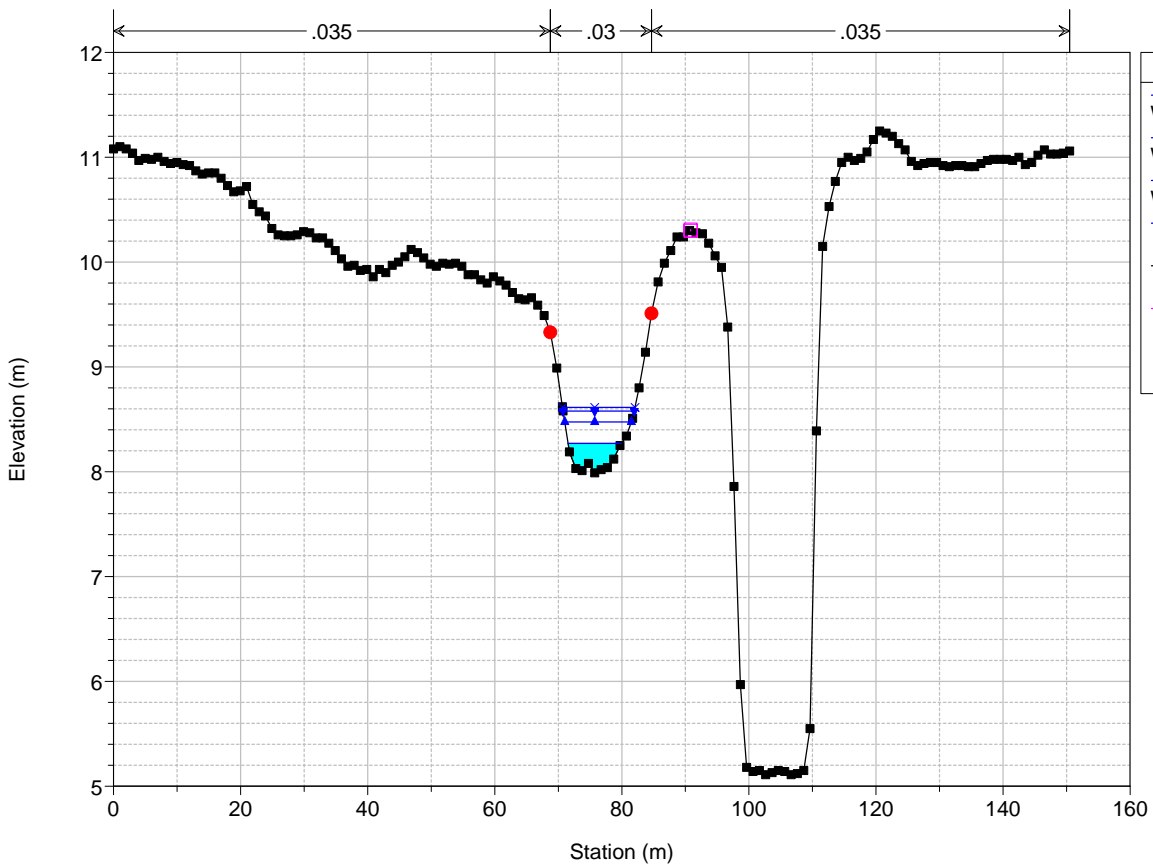
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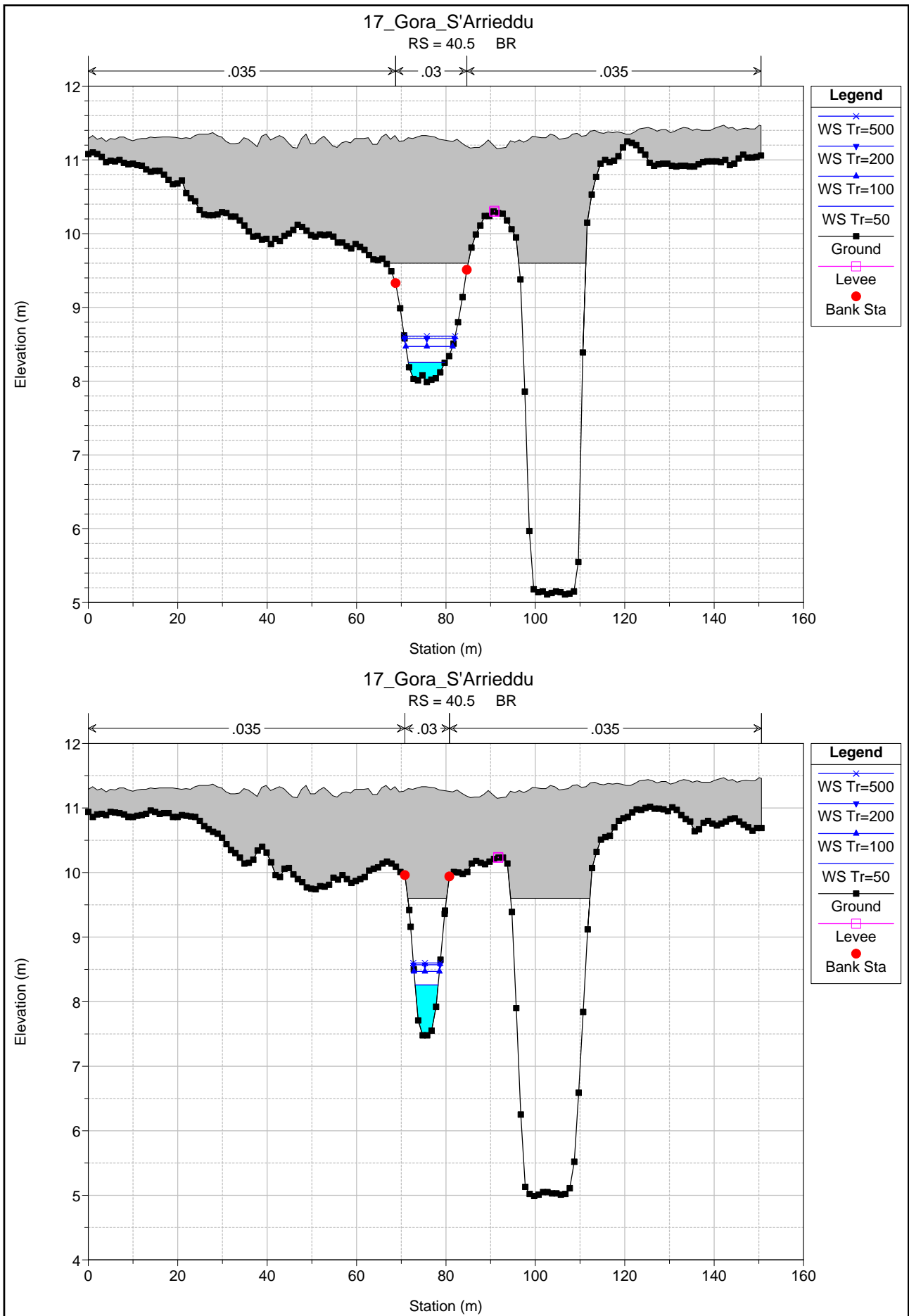
RS = 42



17_Gora_S'Arrieddu

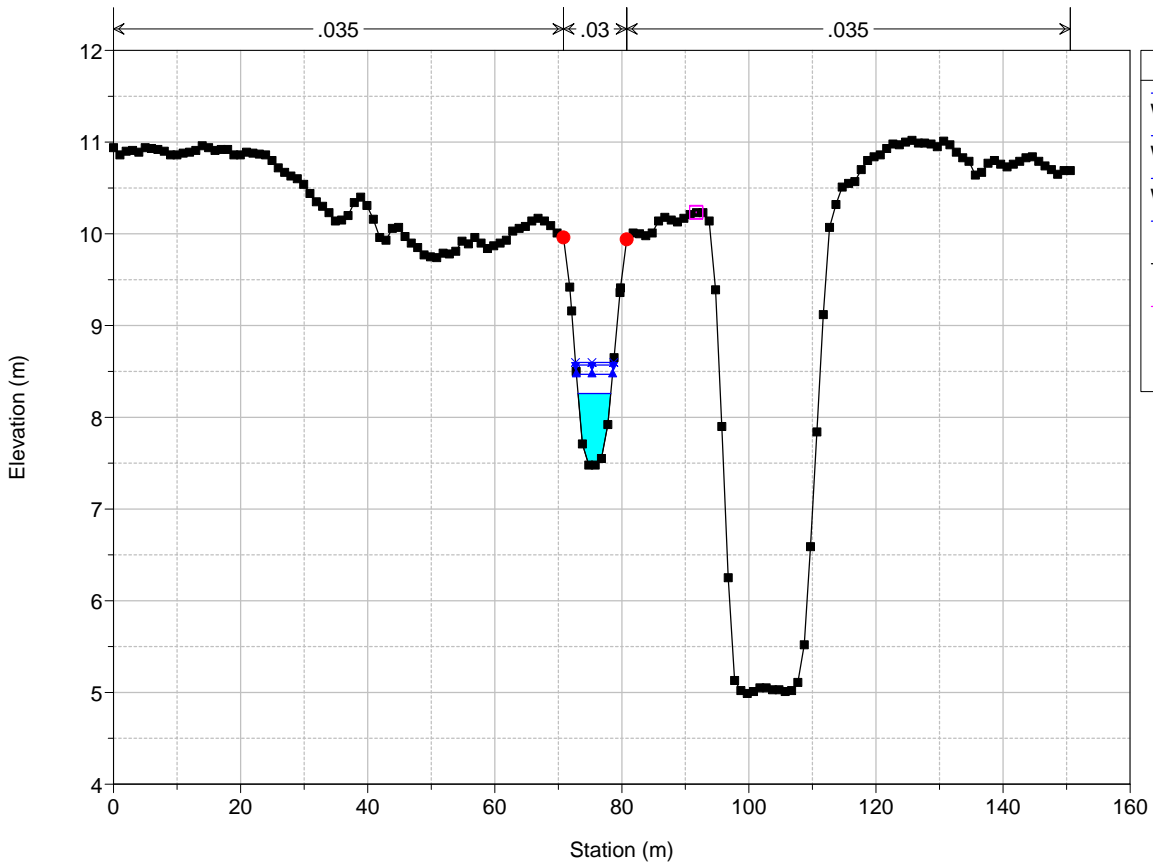
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17_Gora_S'Arrieddu

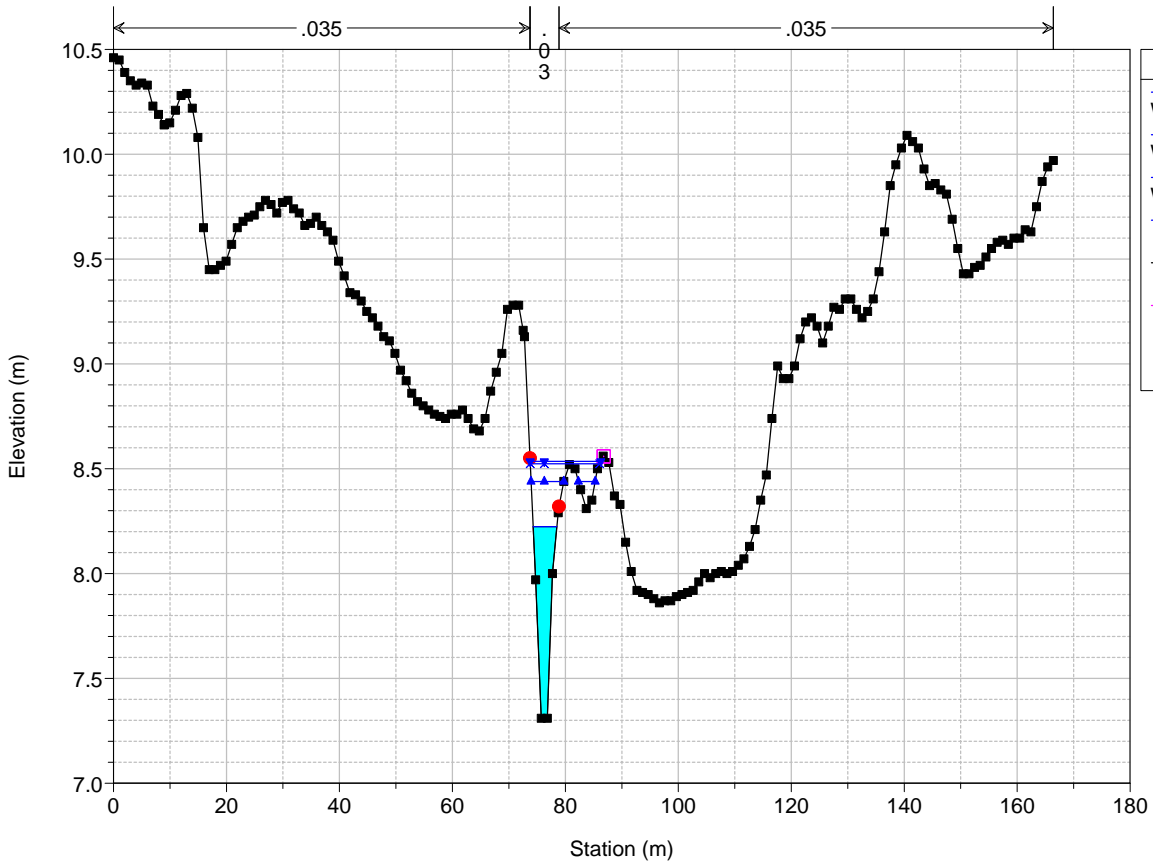
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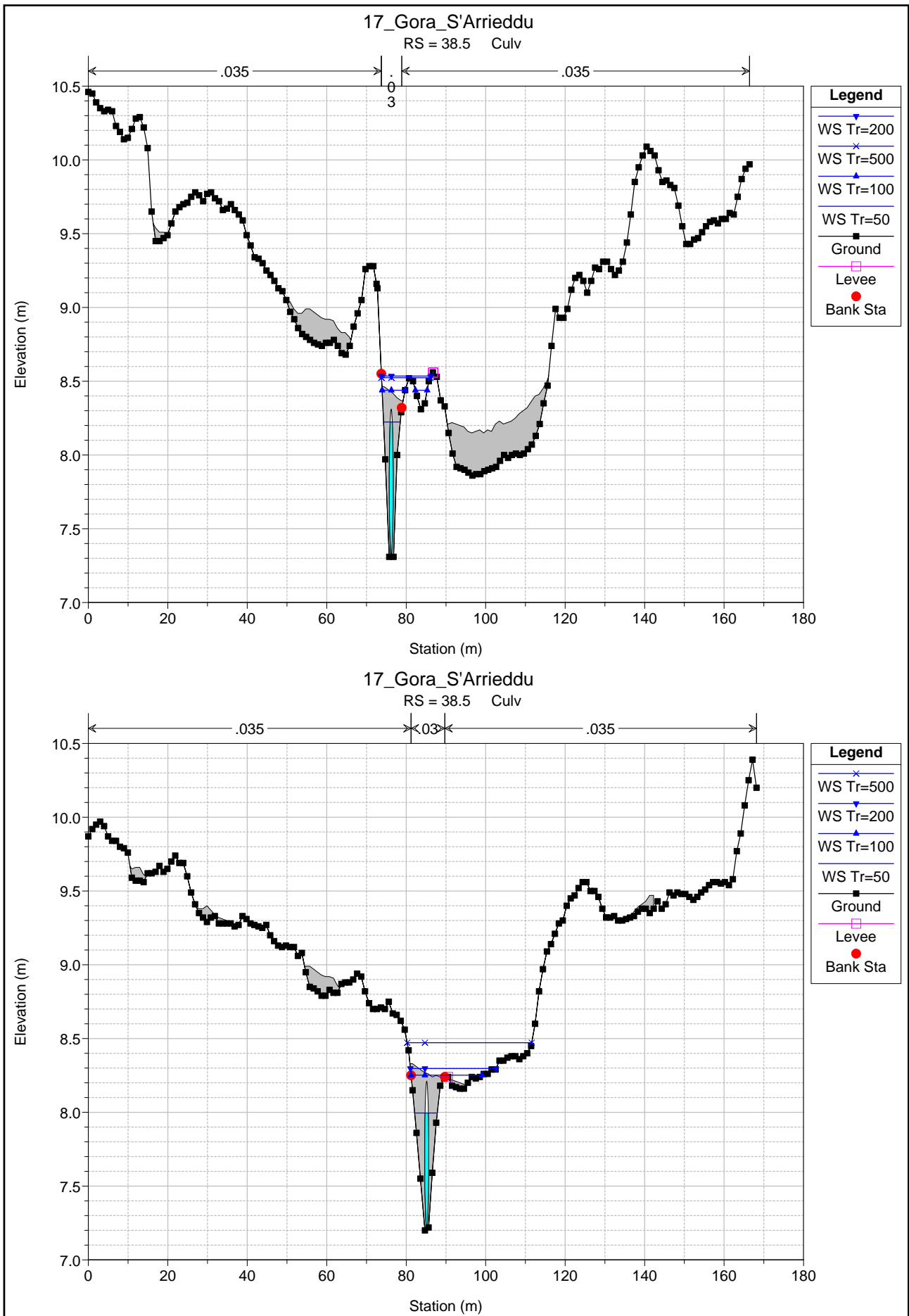
- Legend**
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 - WS Tr=200
 - WS Tr=100
 - WS Tr=50
 - Ground
 - Levee
 - Bank Sta

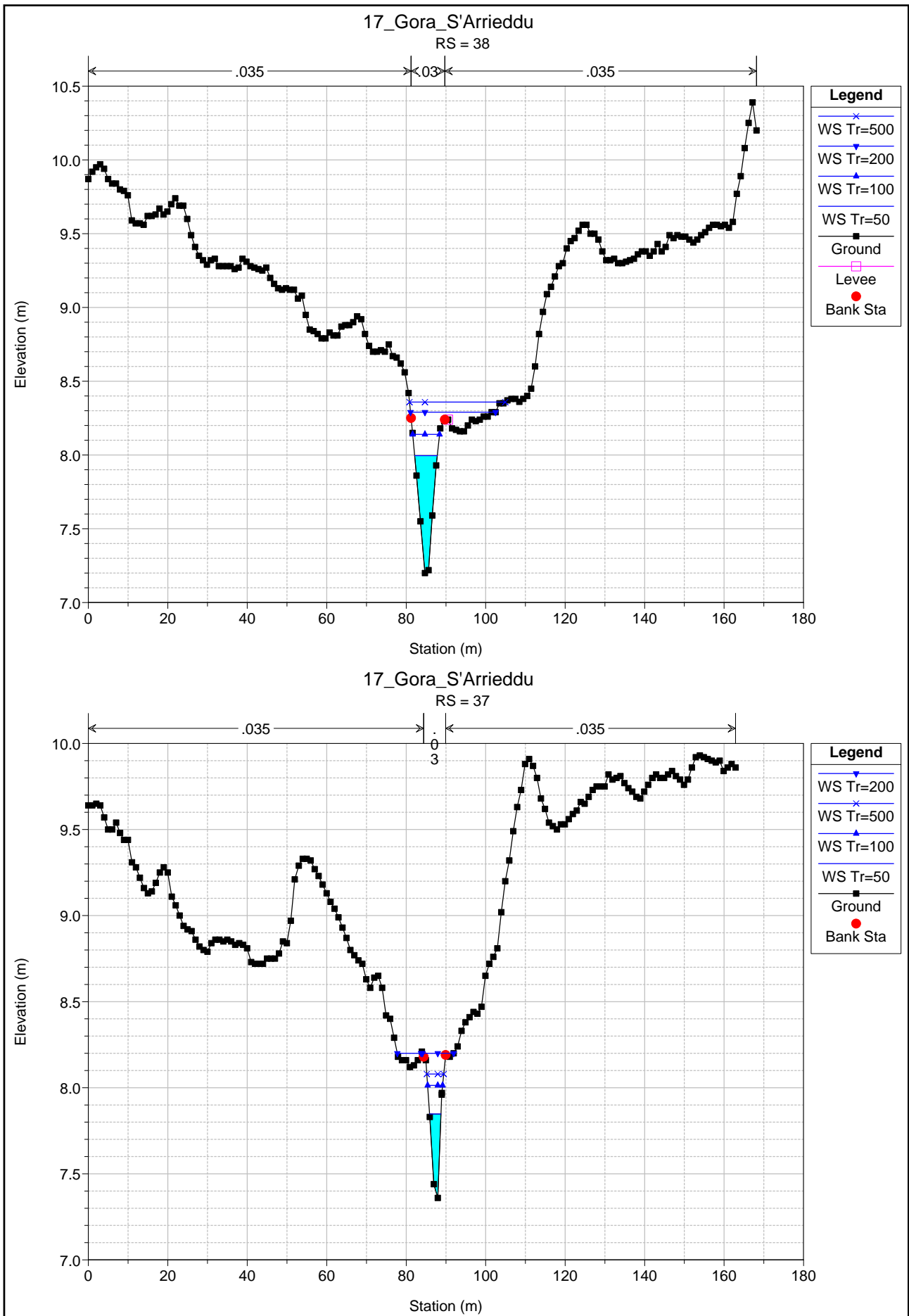
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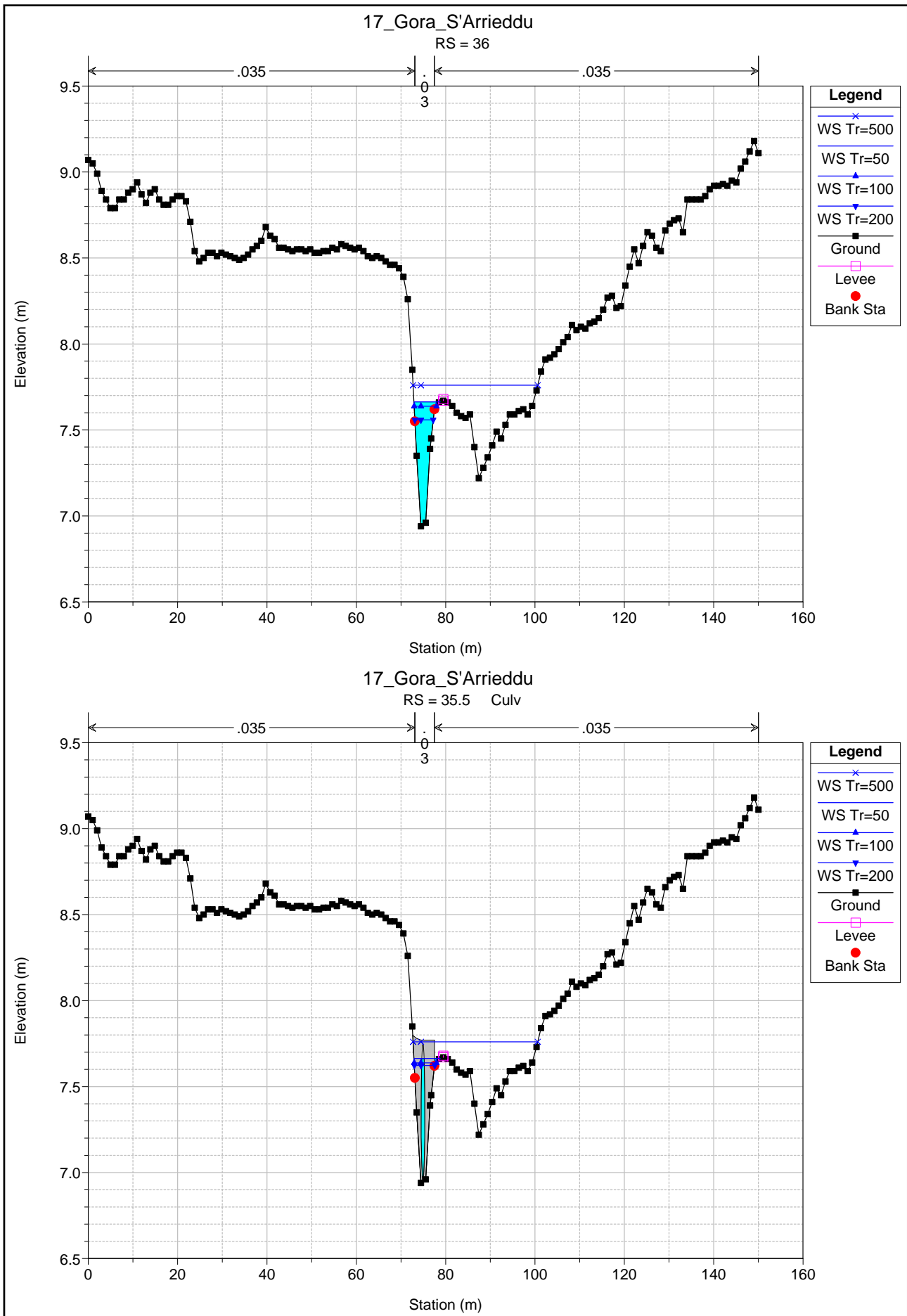
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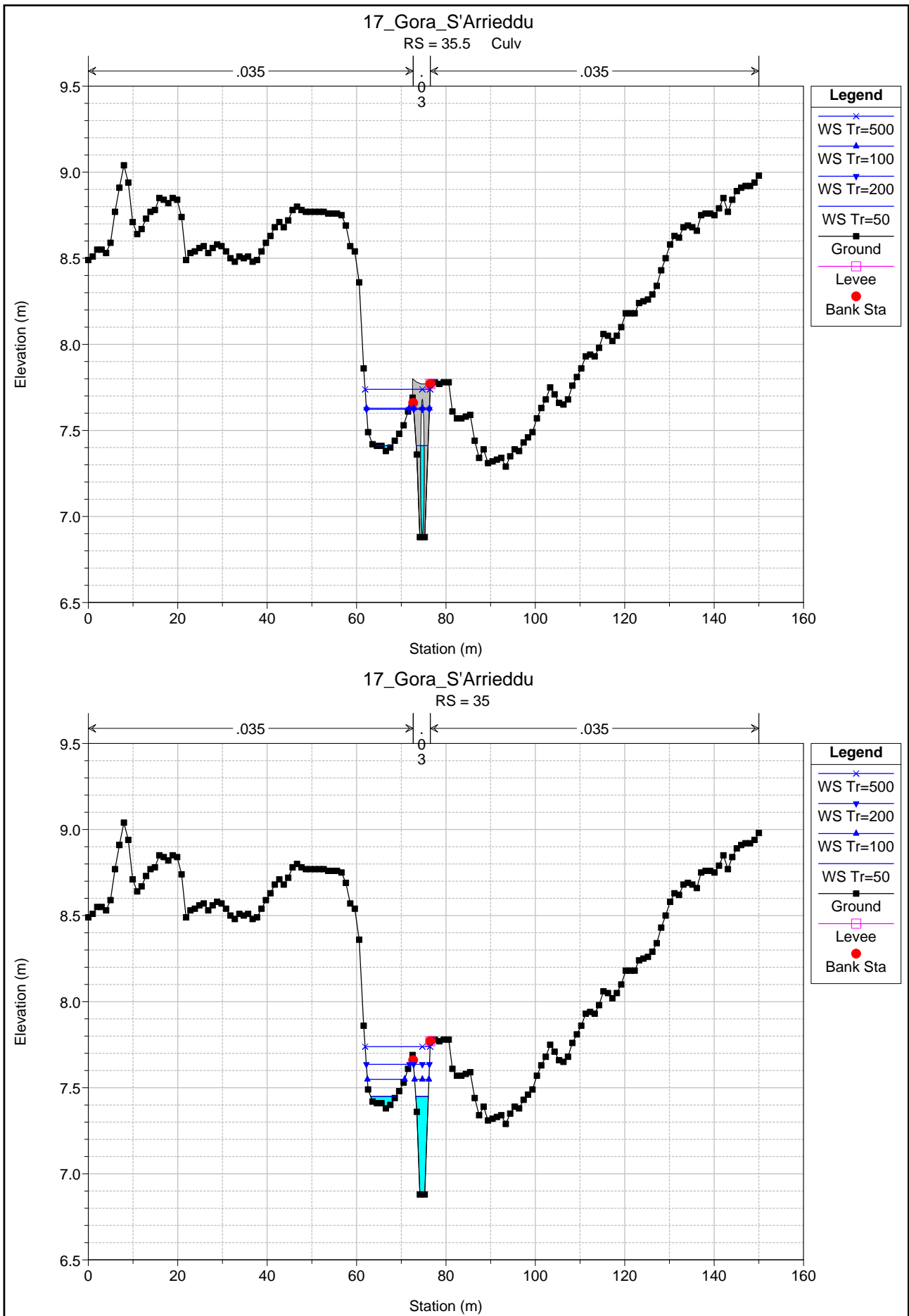


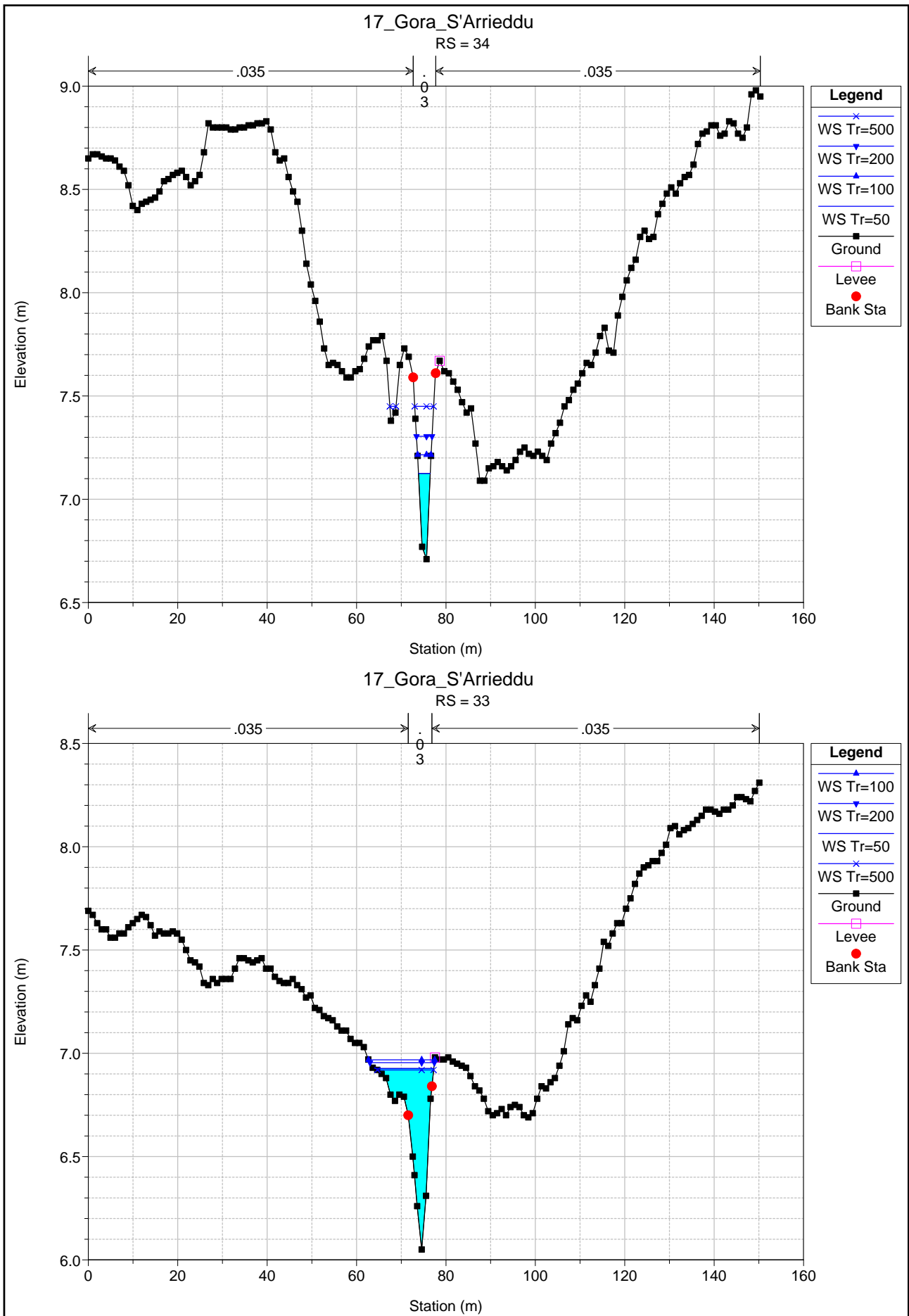
- Legend**
- WS Tr=200
 - WS Tr=500
 - WS Tr=100
 - WS Tr=50
 - Ground
 - Levee
 - Bank Sta

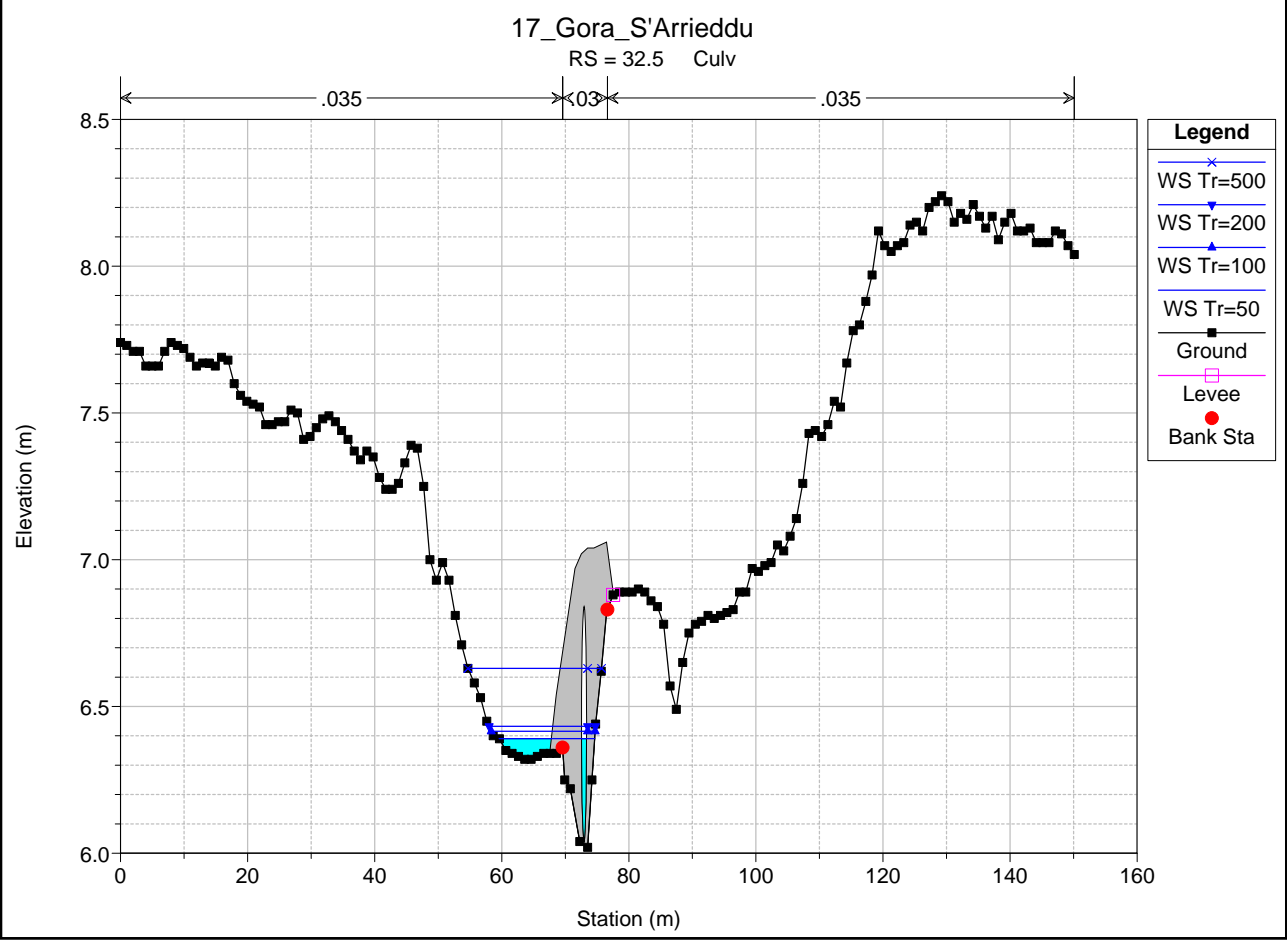
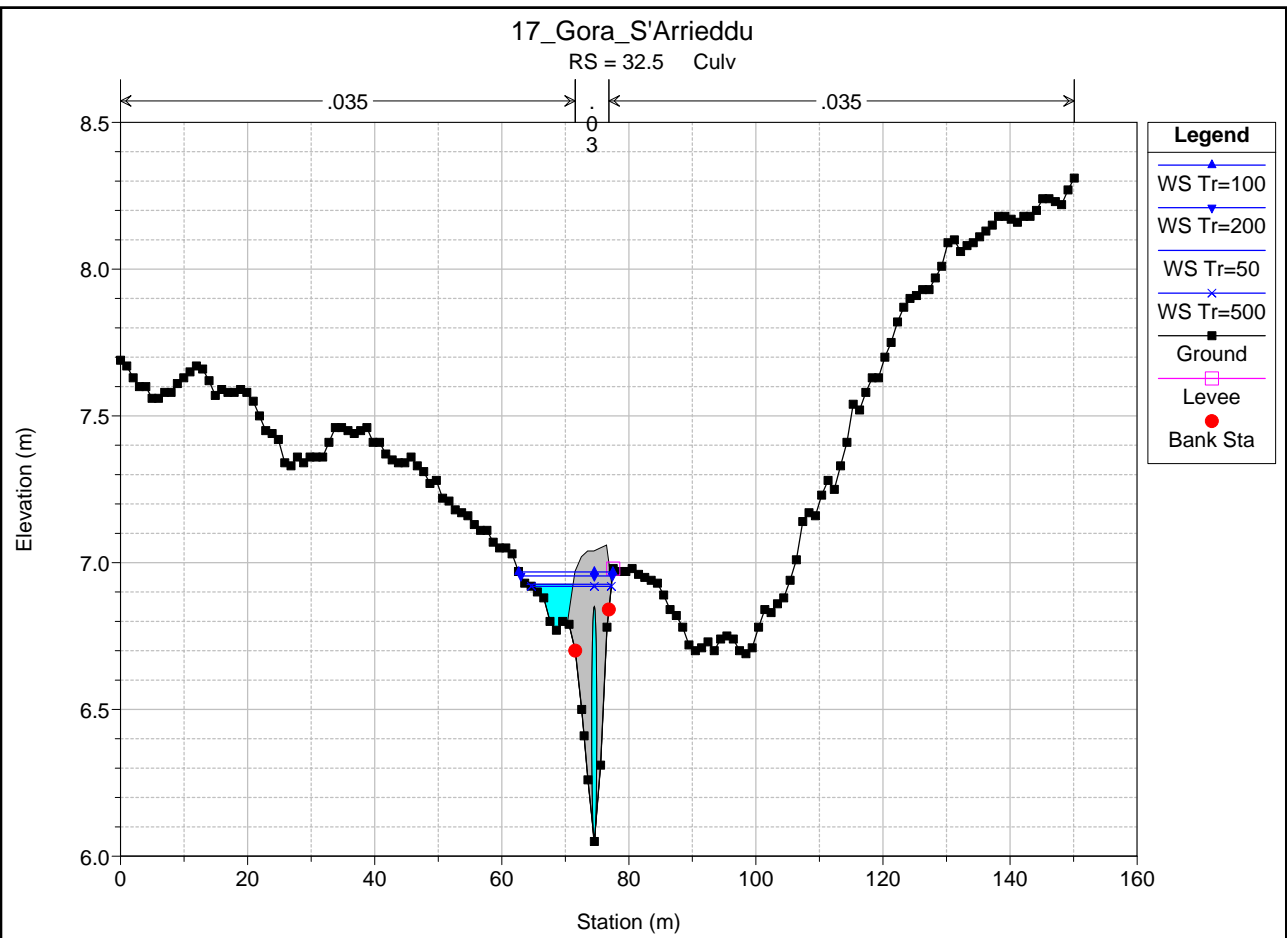




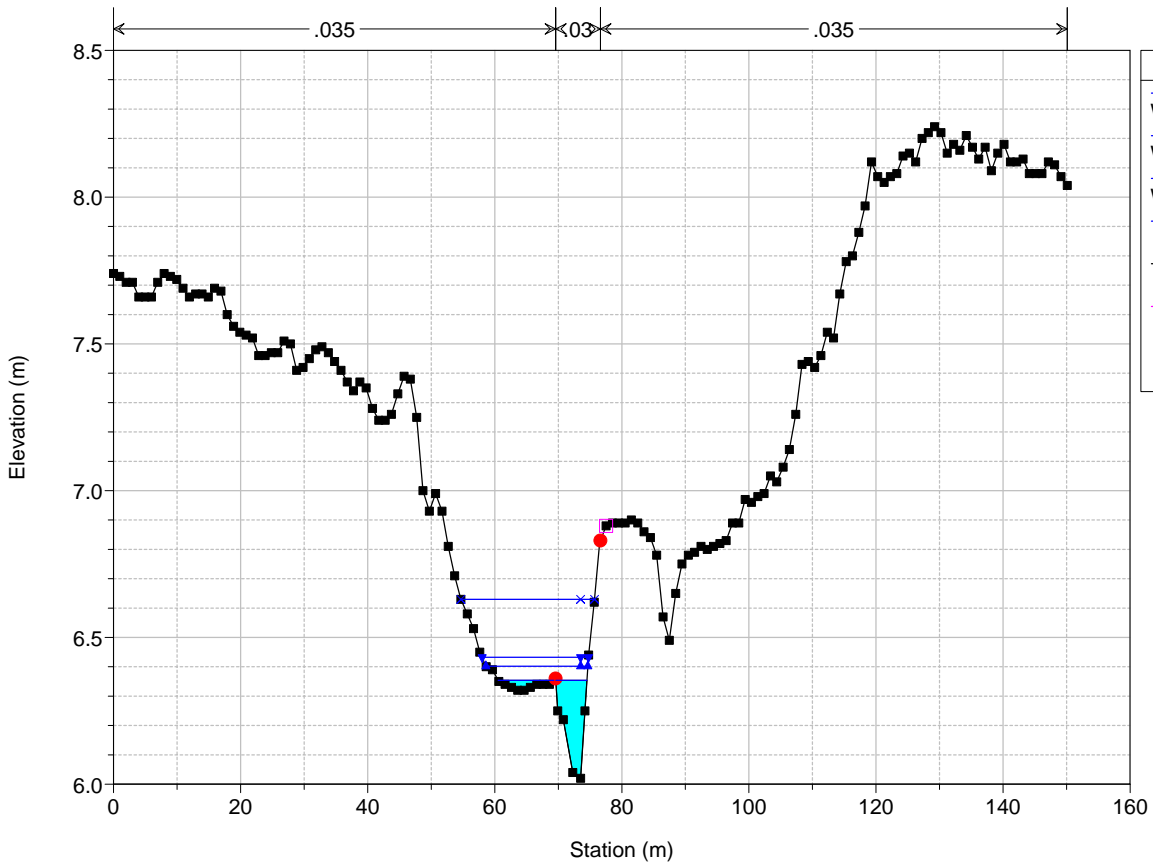






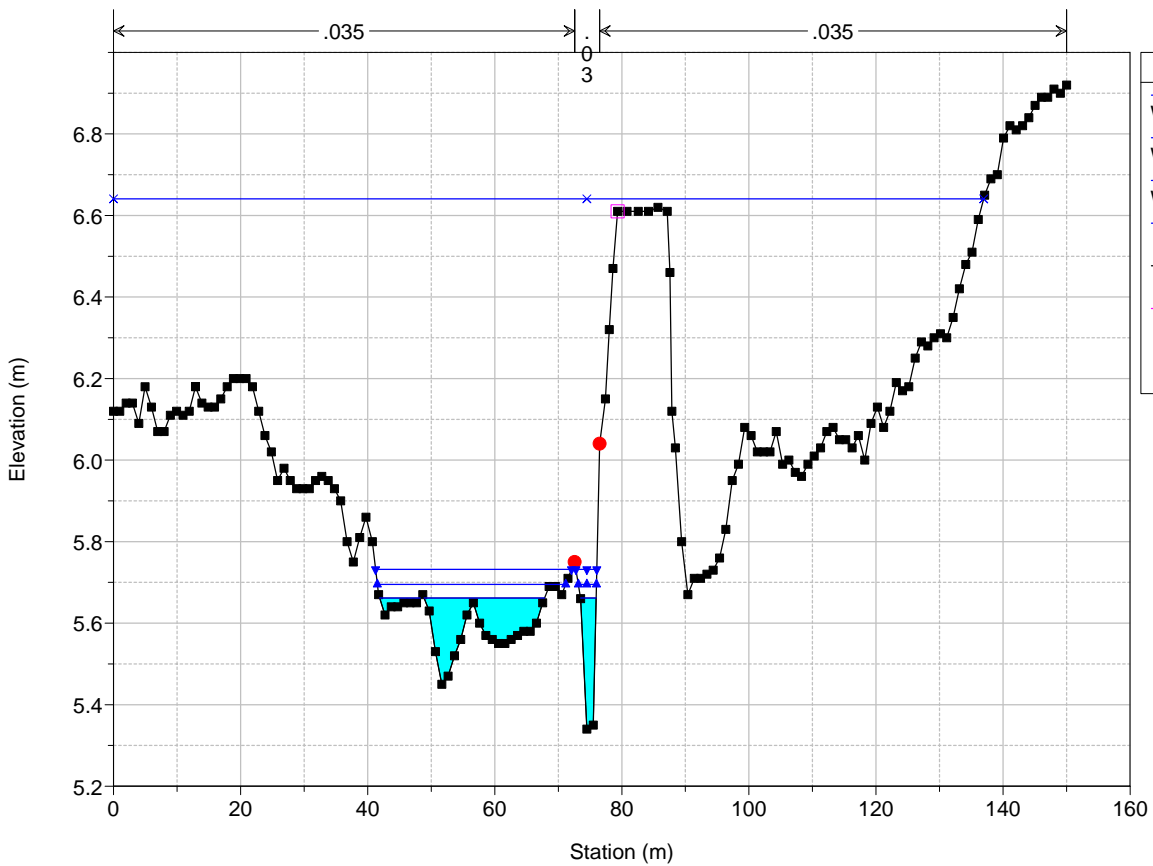


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RS = 32

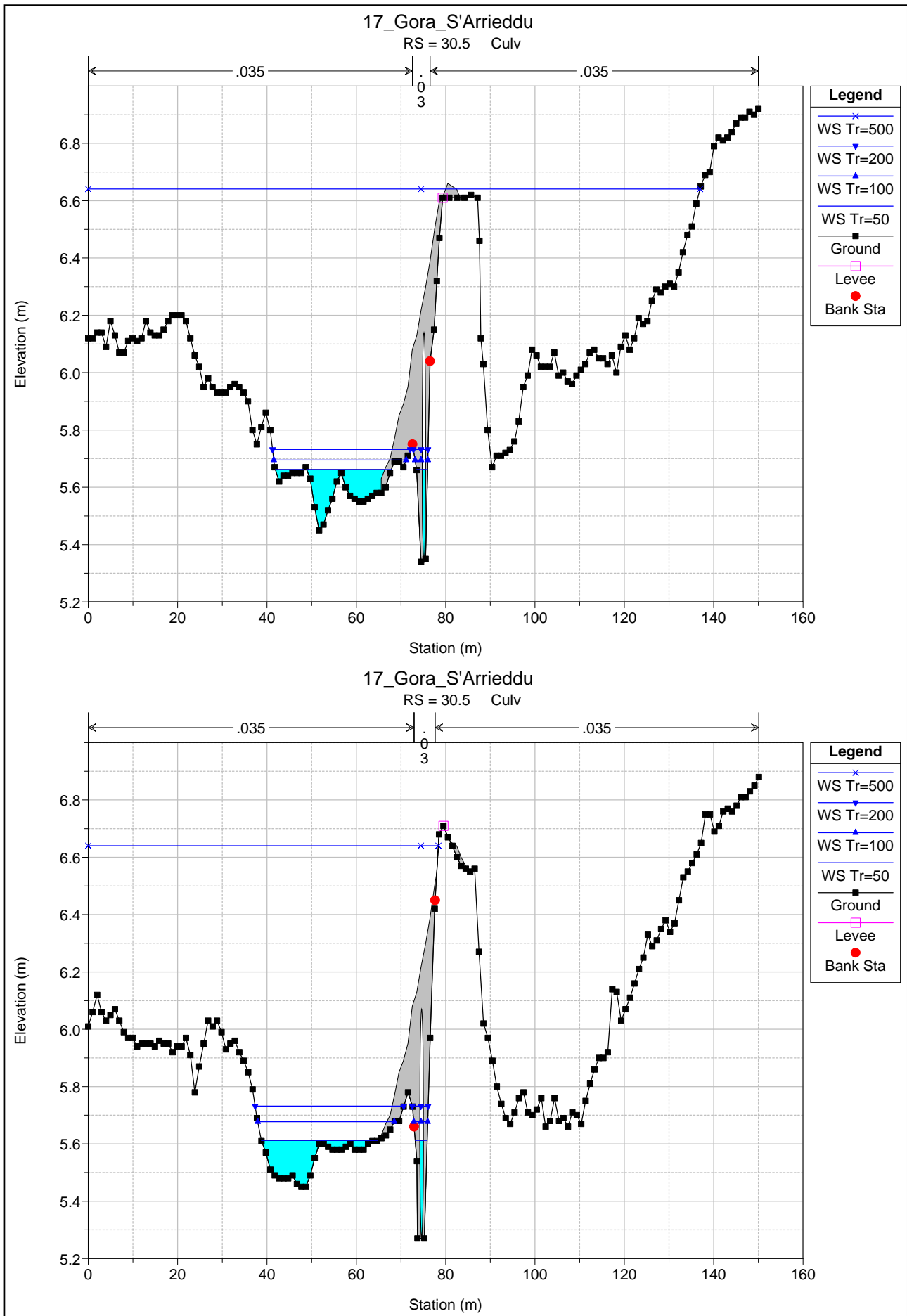


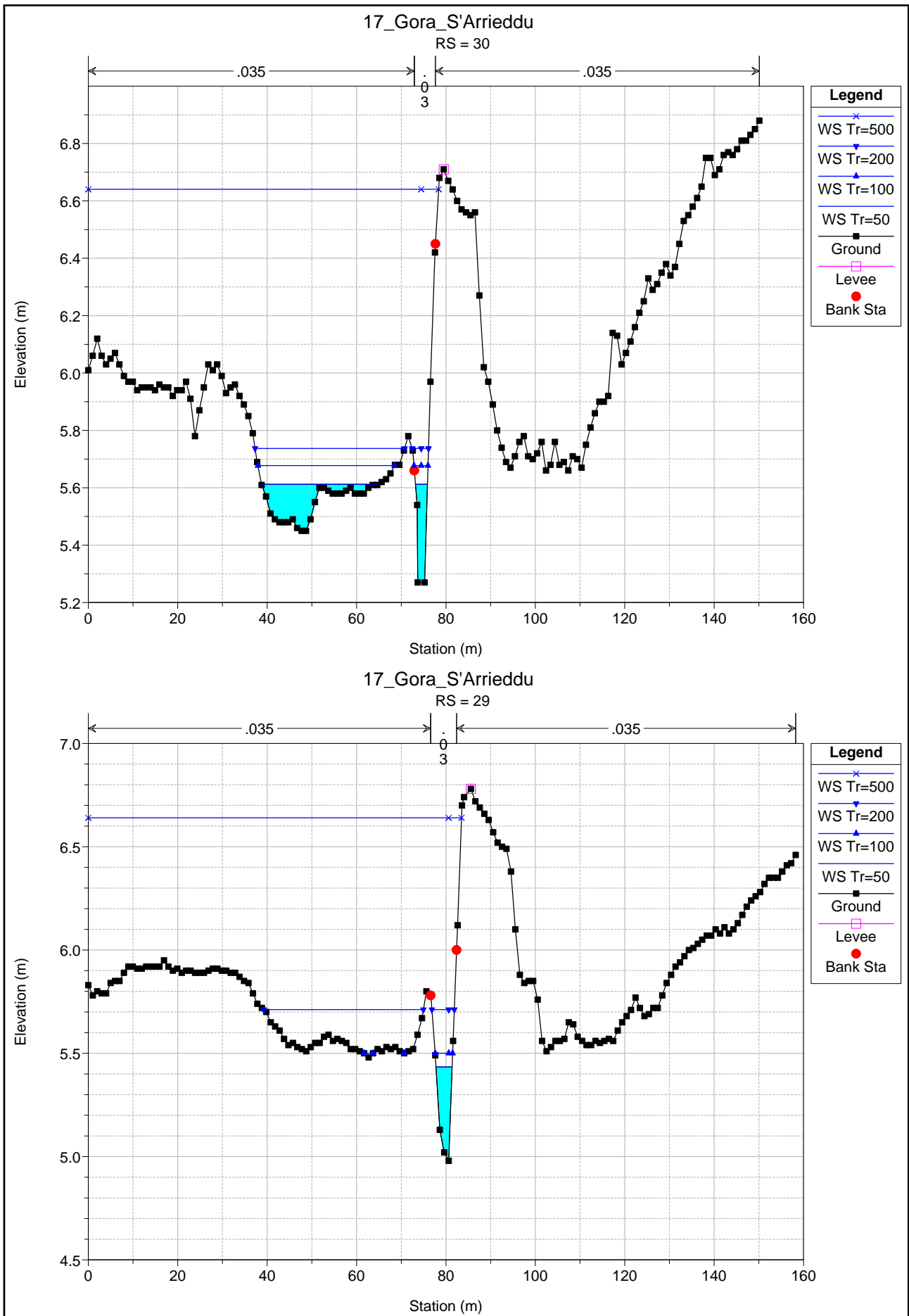
- Legend**
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 - WS Tr=200
 - WS Tr=100
 - WS Tr=50
 - Ground
 - Levee
 - Bank Sta

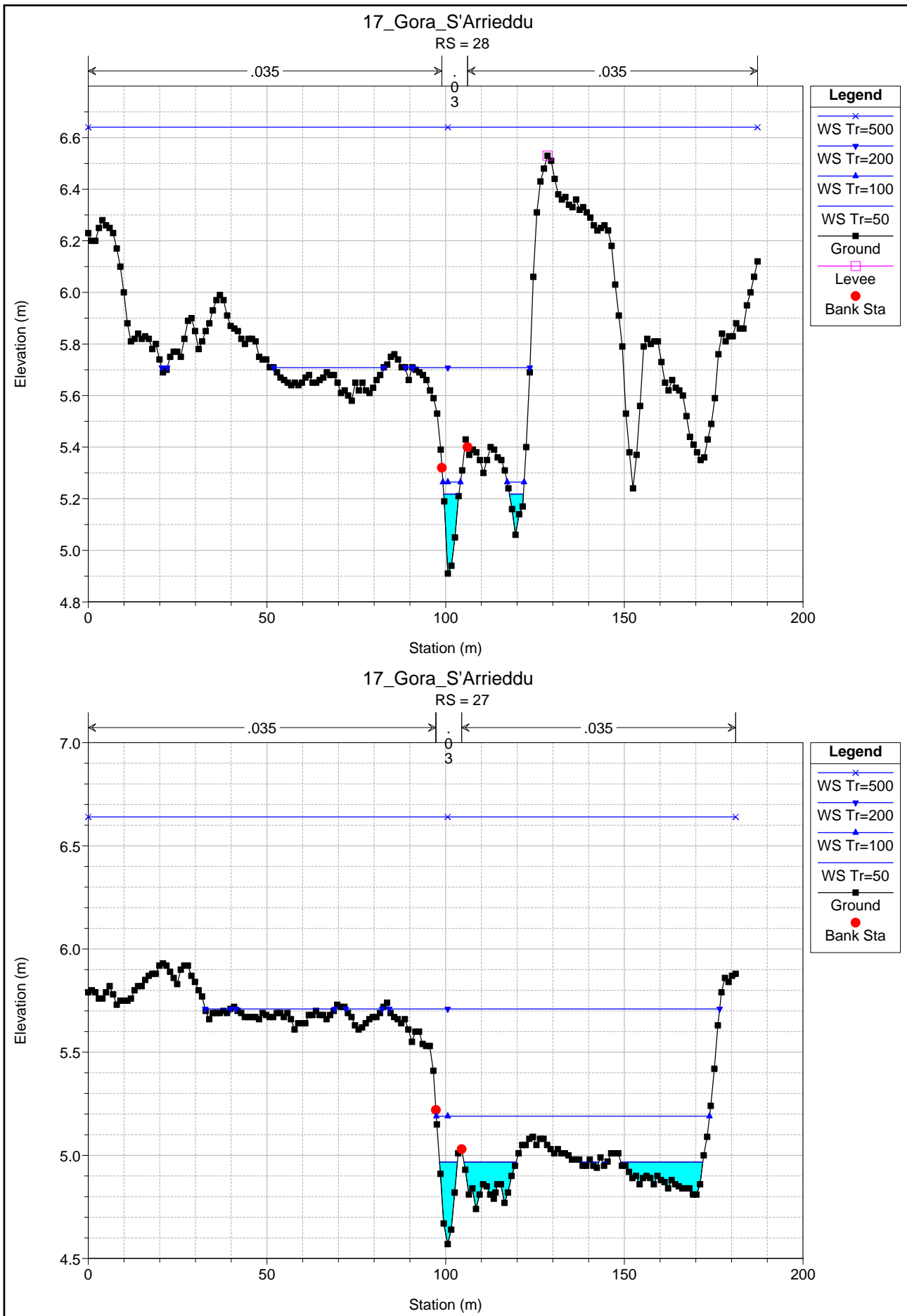
17_Gora_S'Arrieddu
RS = 31



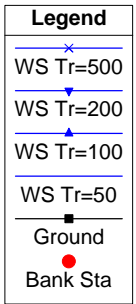
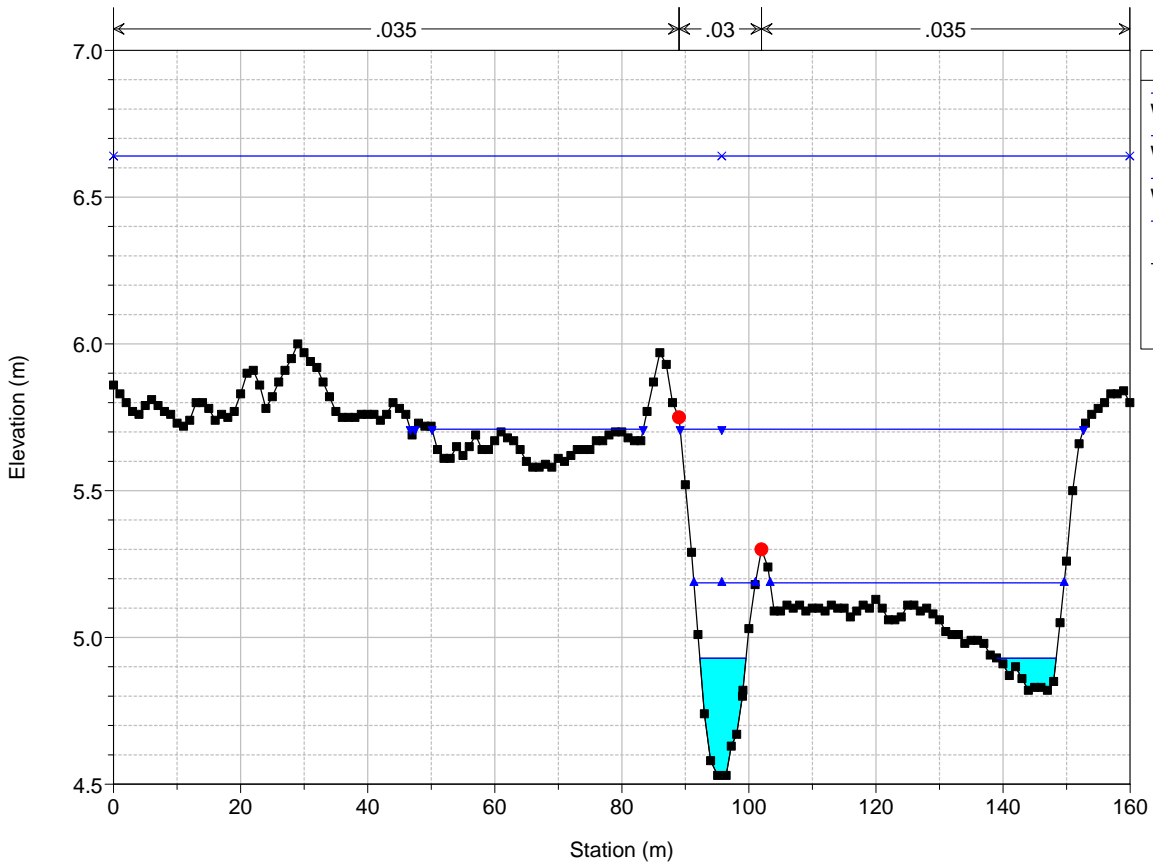
- Legend**
- WS Tr=500
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 - WS Tr=50
 - Ground
 - Levee
 - Bank Sta



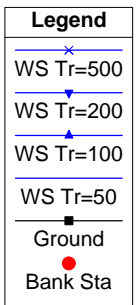
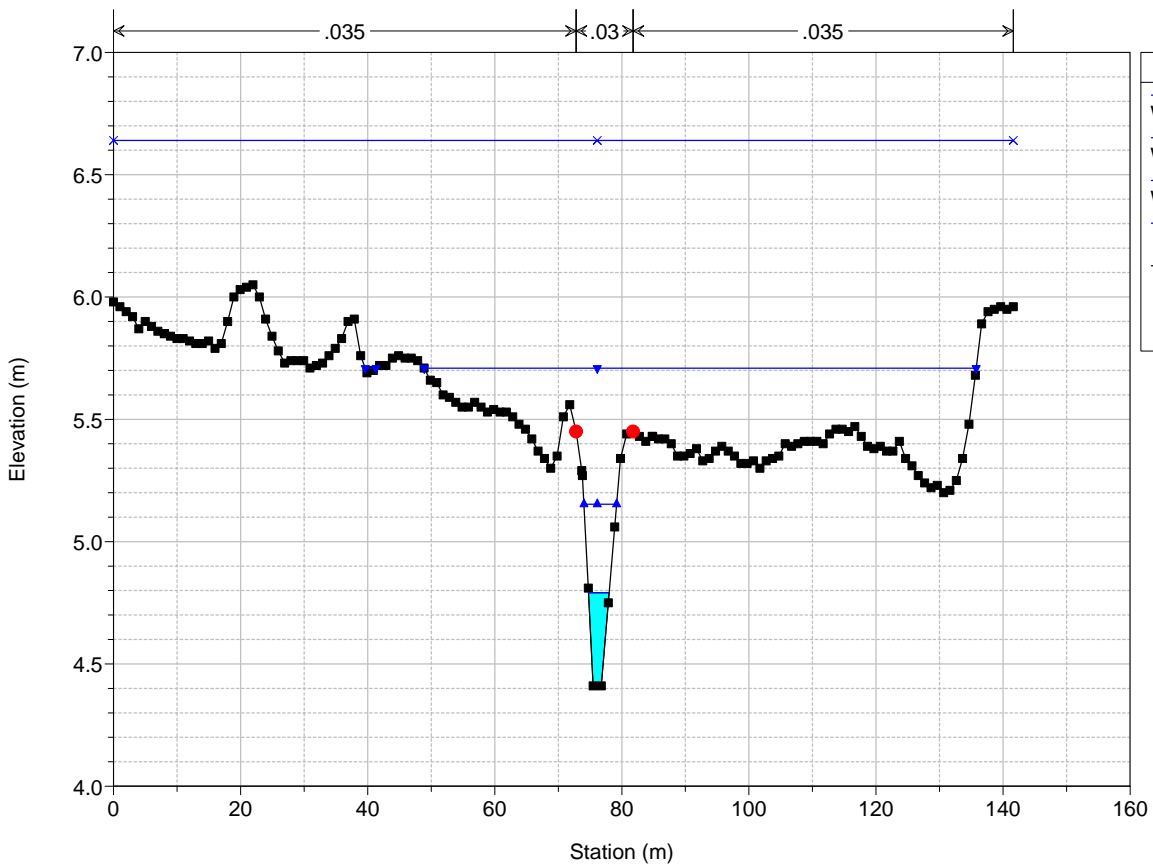




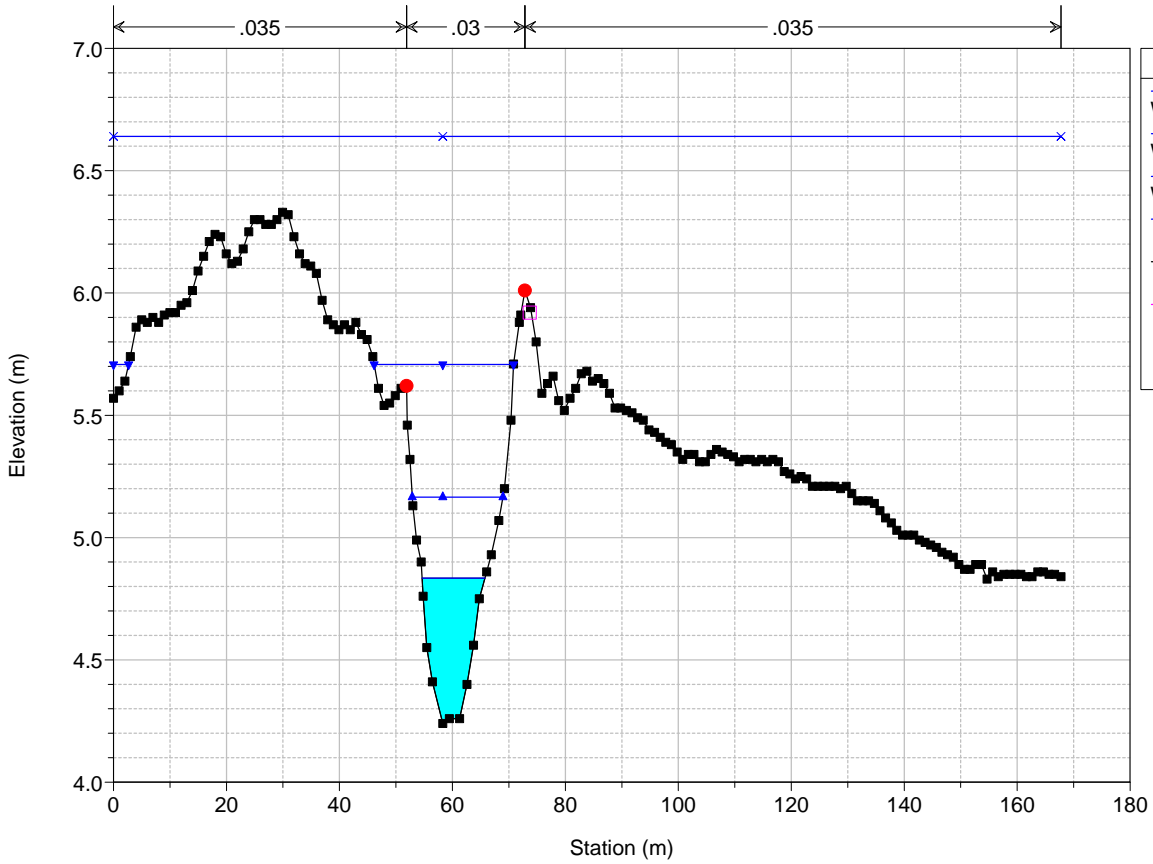
17_Gora_S'Arrieddu
RS = 26



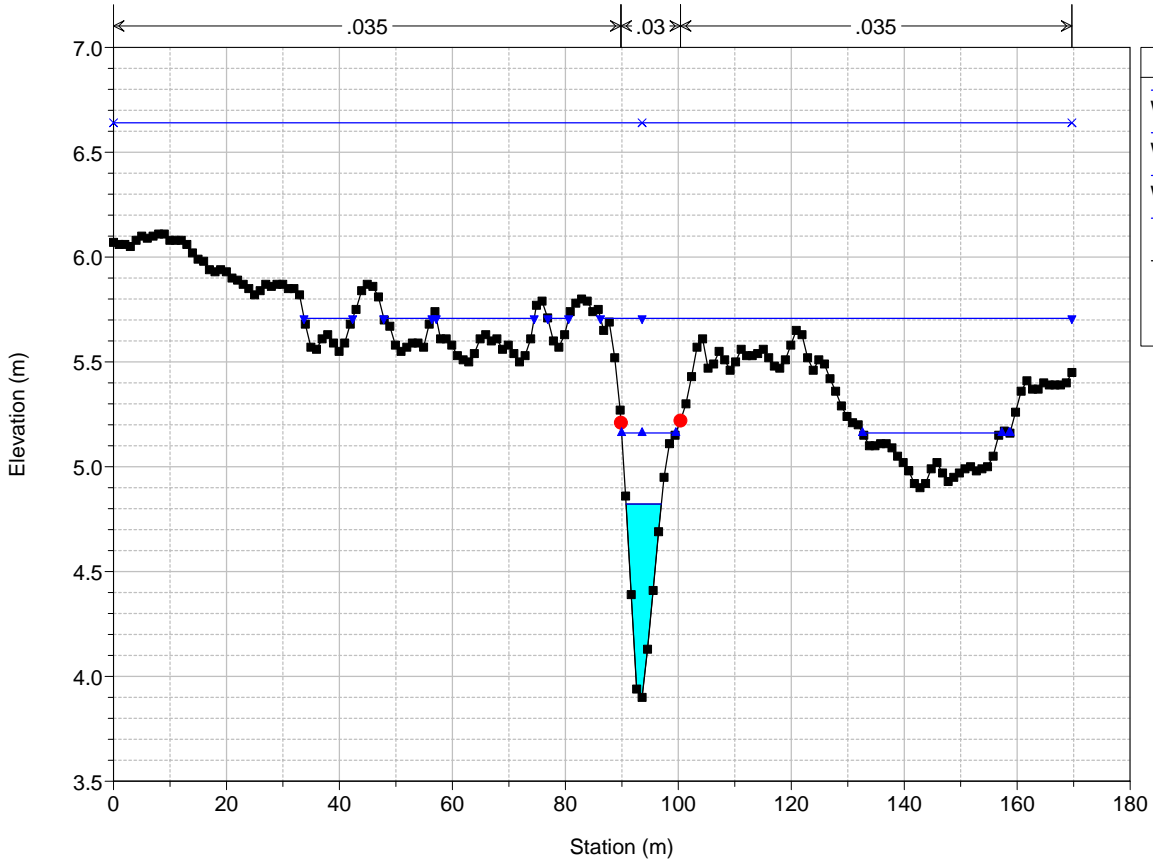
17_Gora_S'Arrieddu
RS = 25



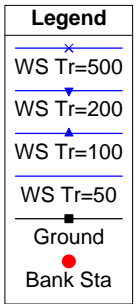
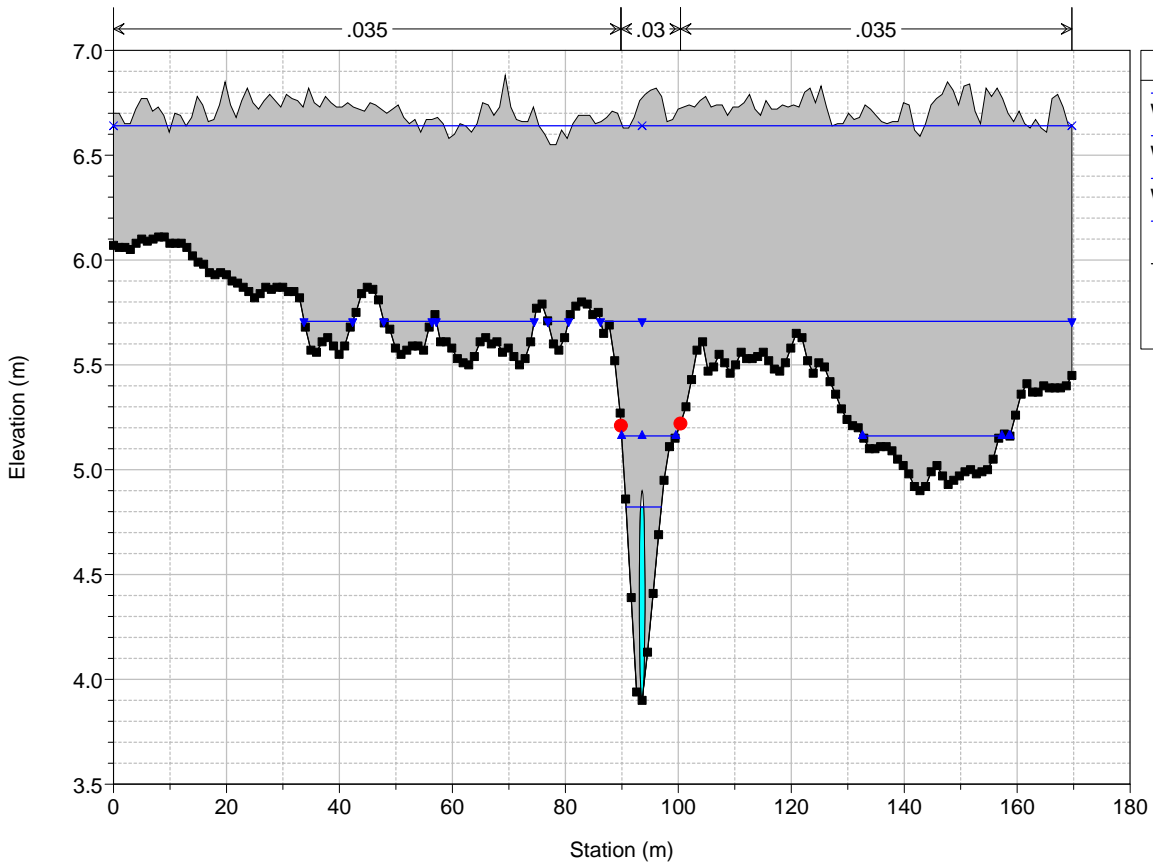
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RS = 24



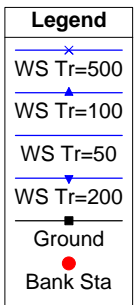
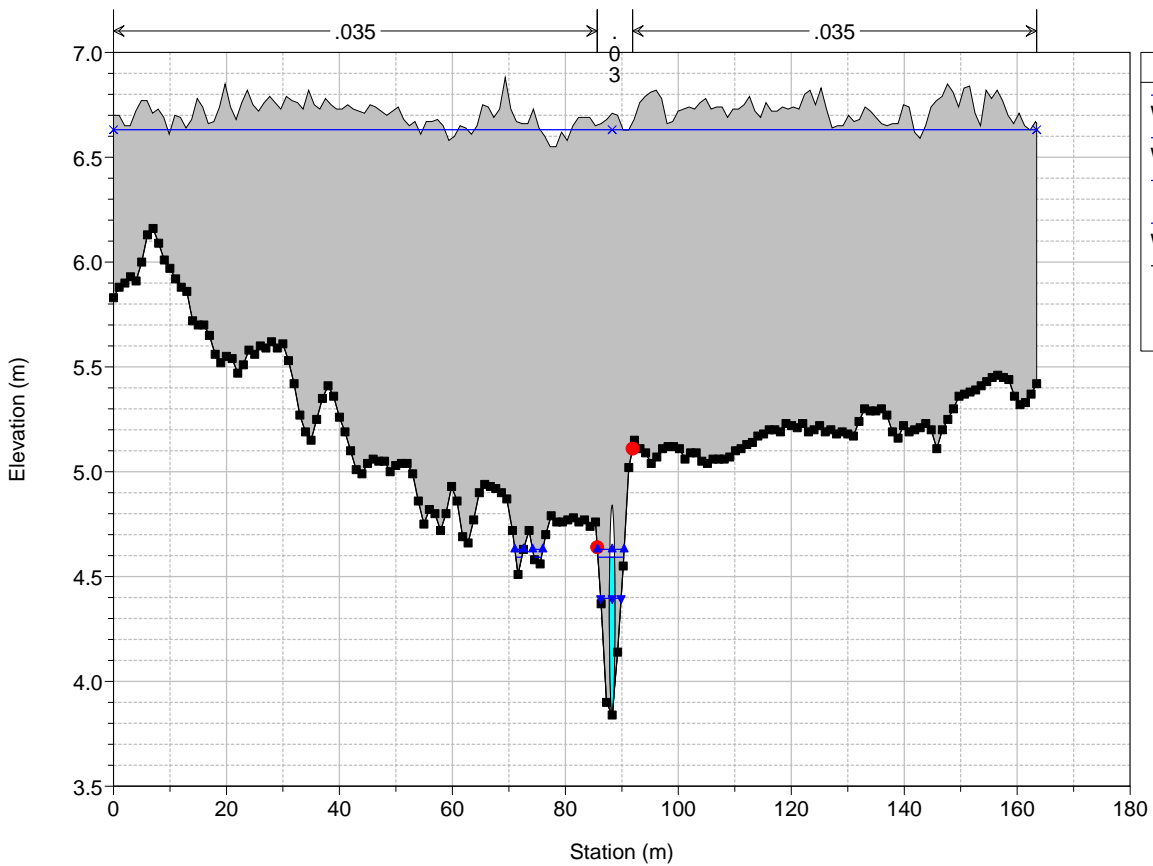
17_Gora_S'Arrieddu
RS = 23

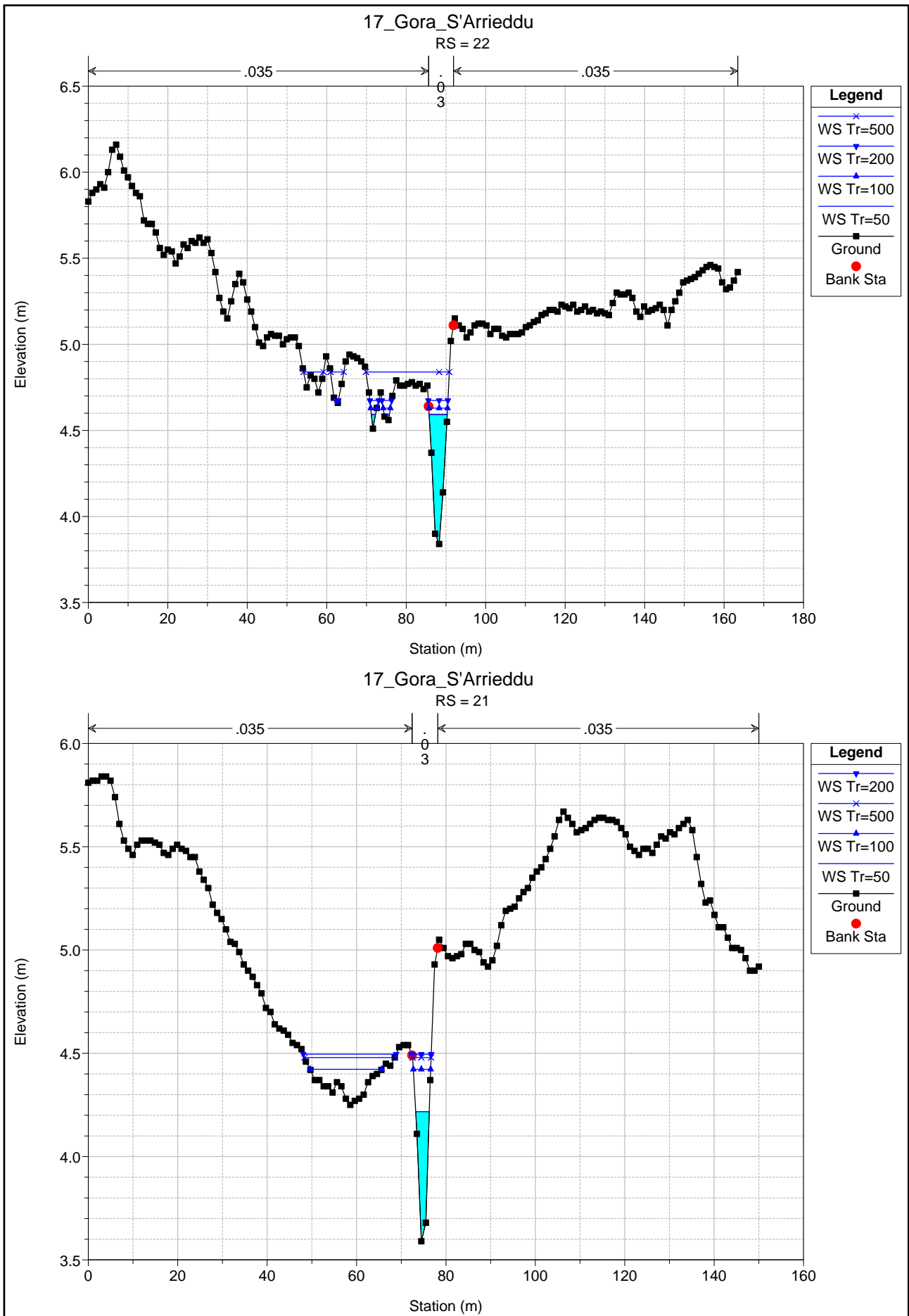


17_Gora_S'Arrieddu
RS = 22.5 Culv

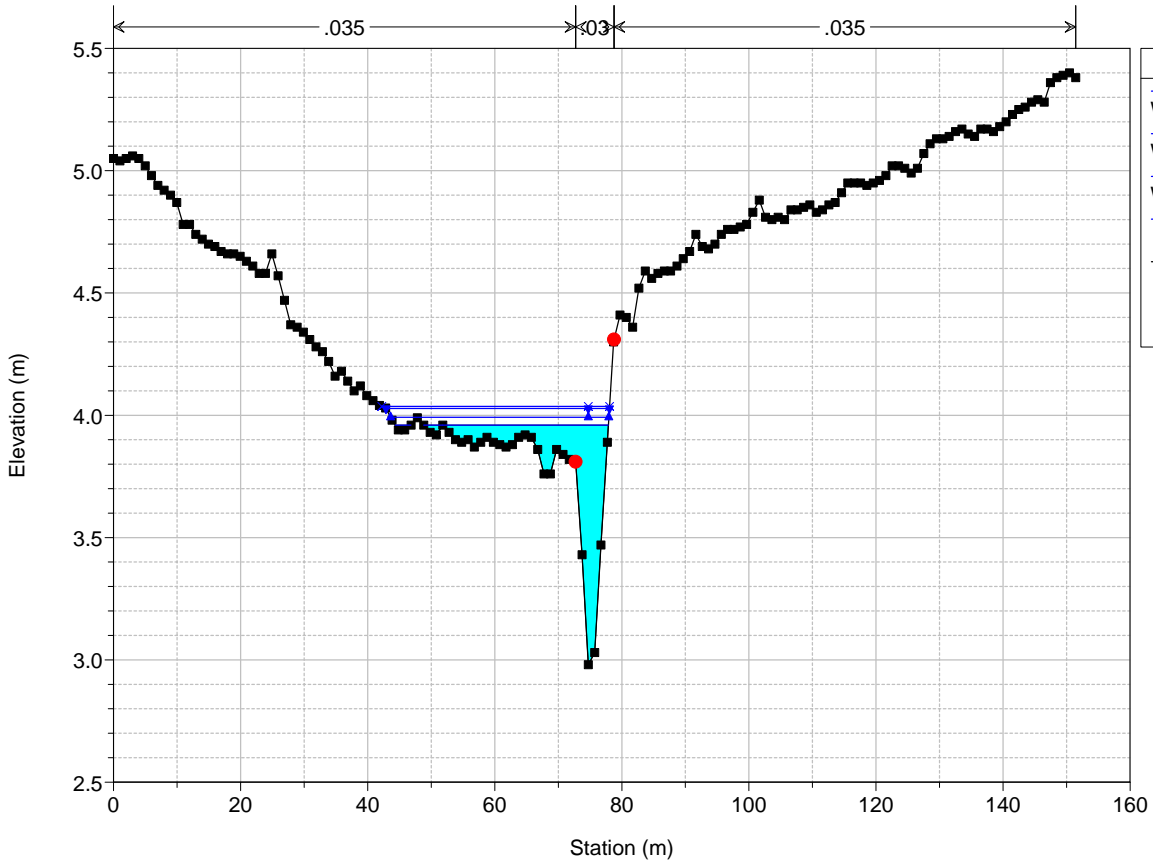


17_Gora_S'Arrieddu
RS = 22.5 Culv

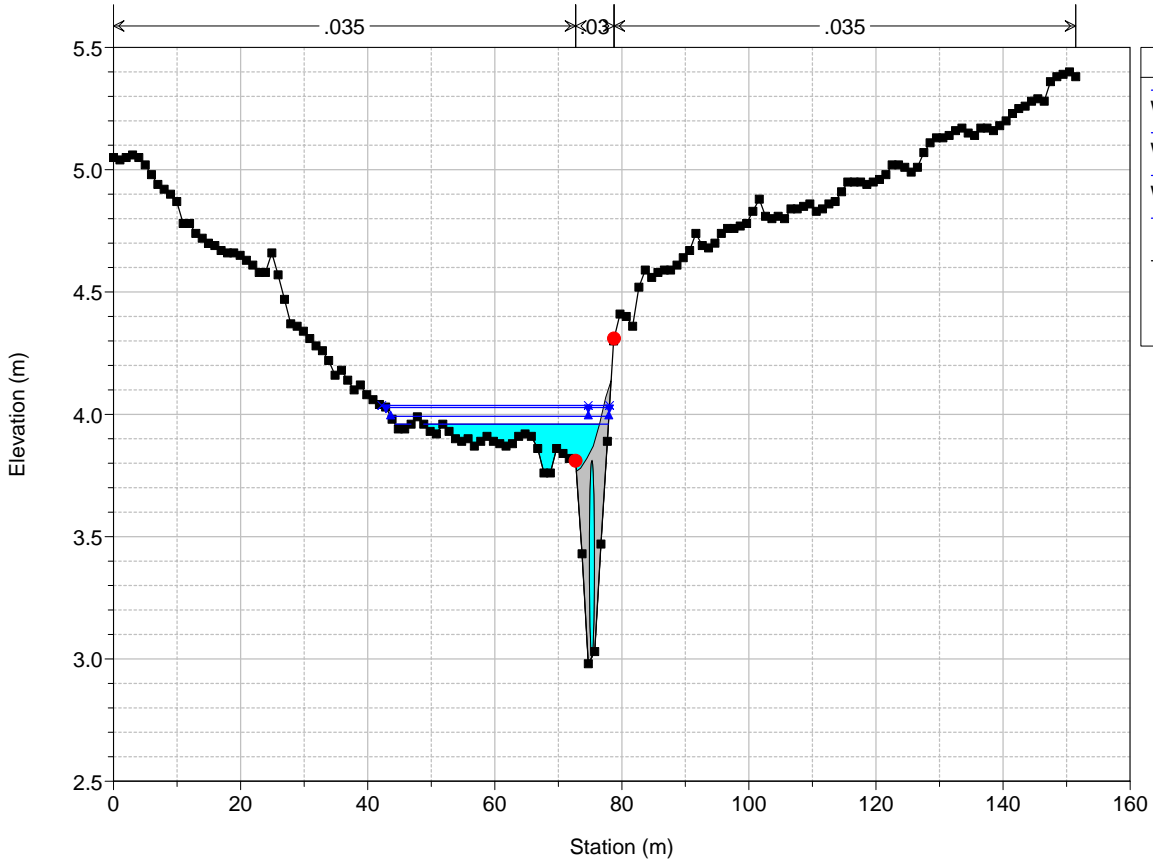


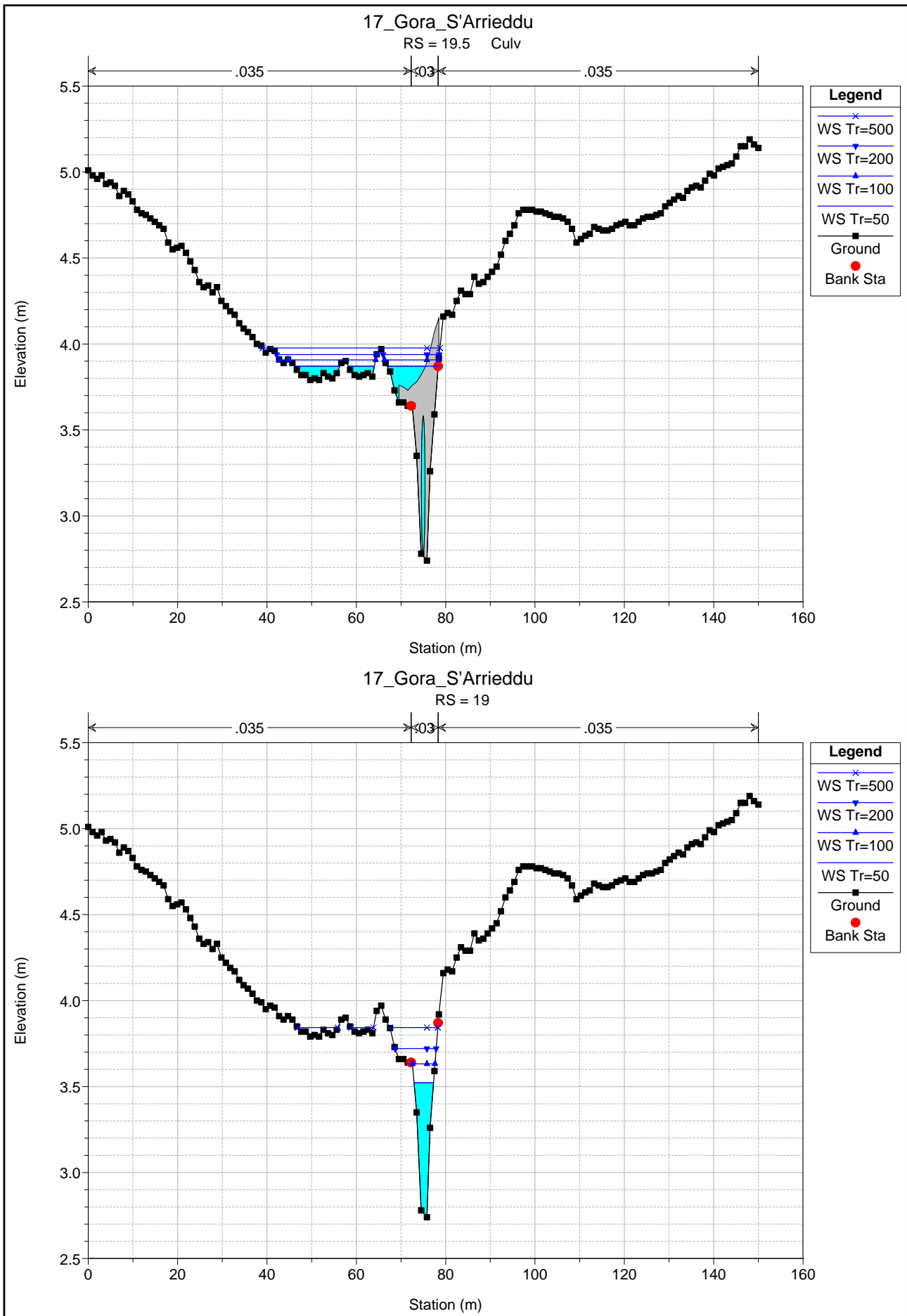


17_Gora_S'Arrieddu
RS = 20

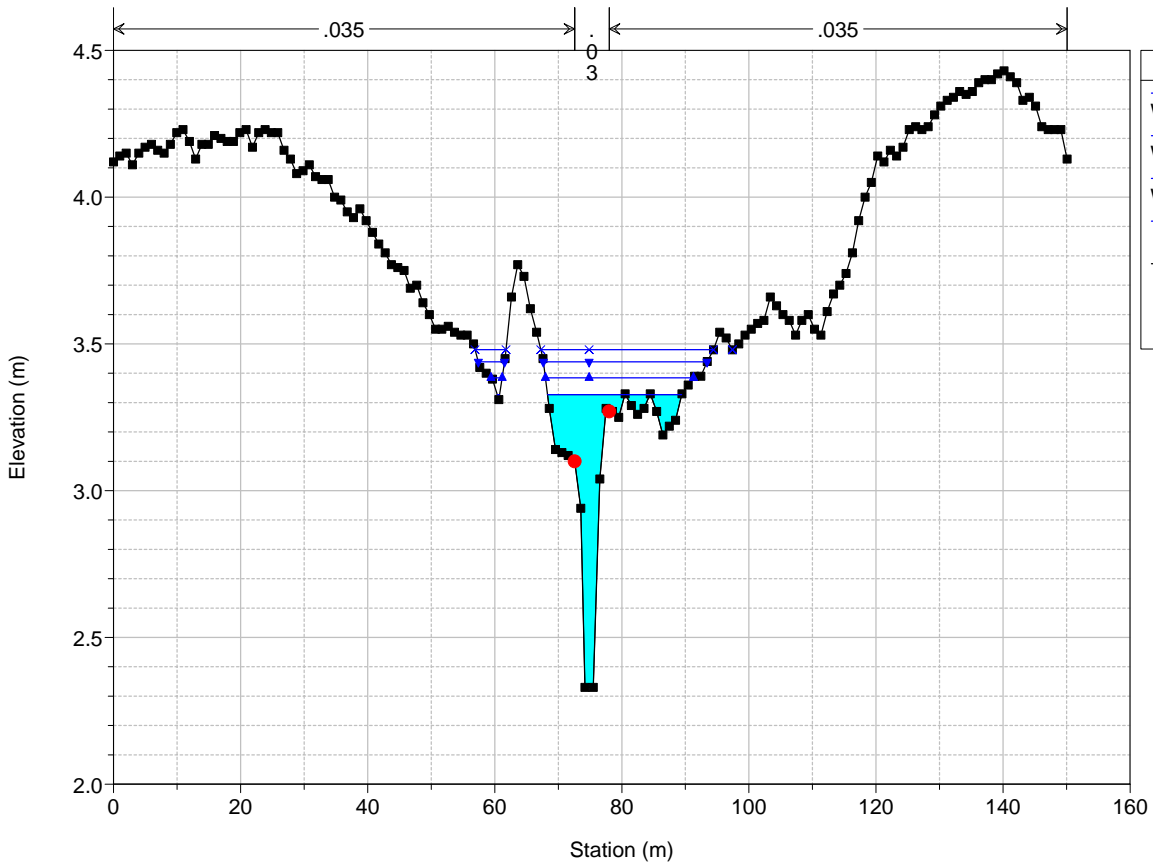


17_Gora_S'Arrieddu
RS = 19.5 Culv

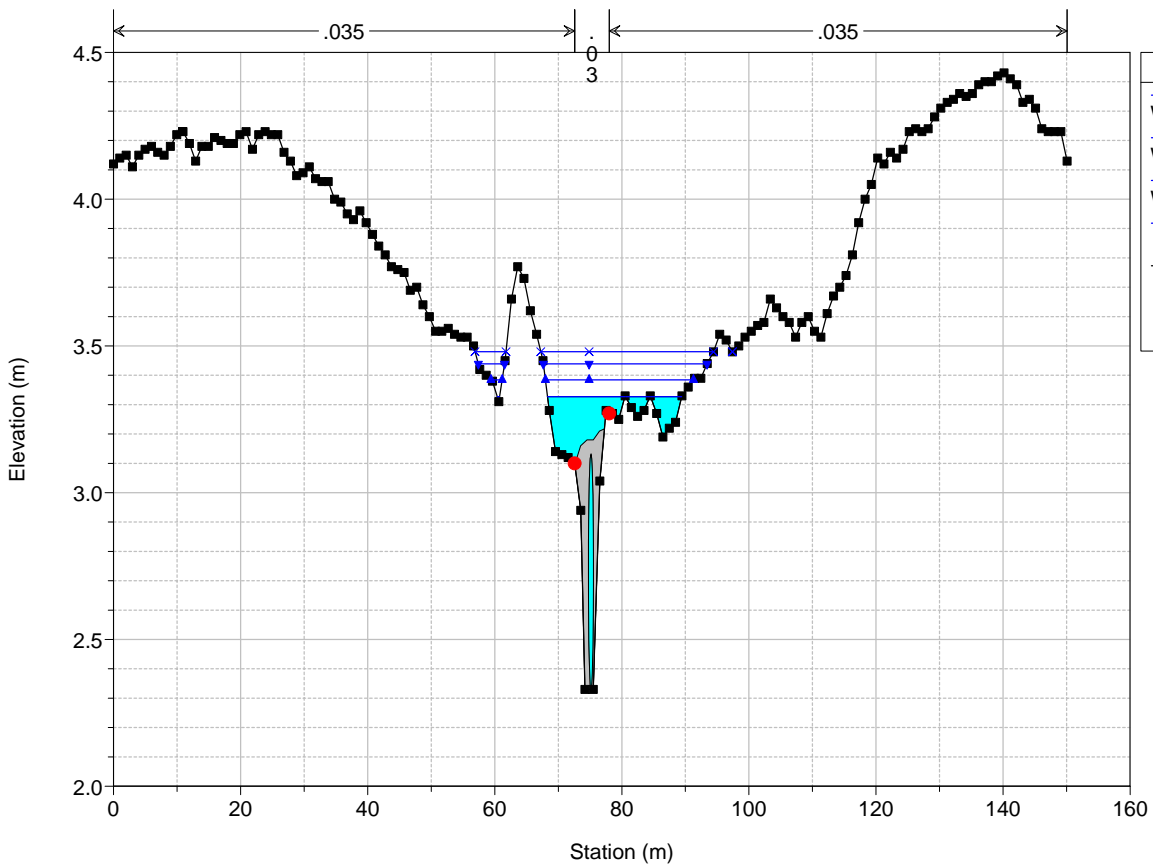


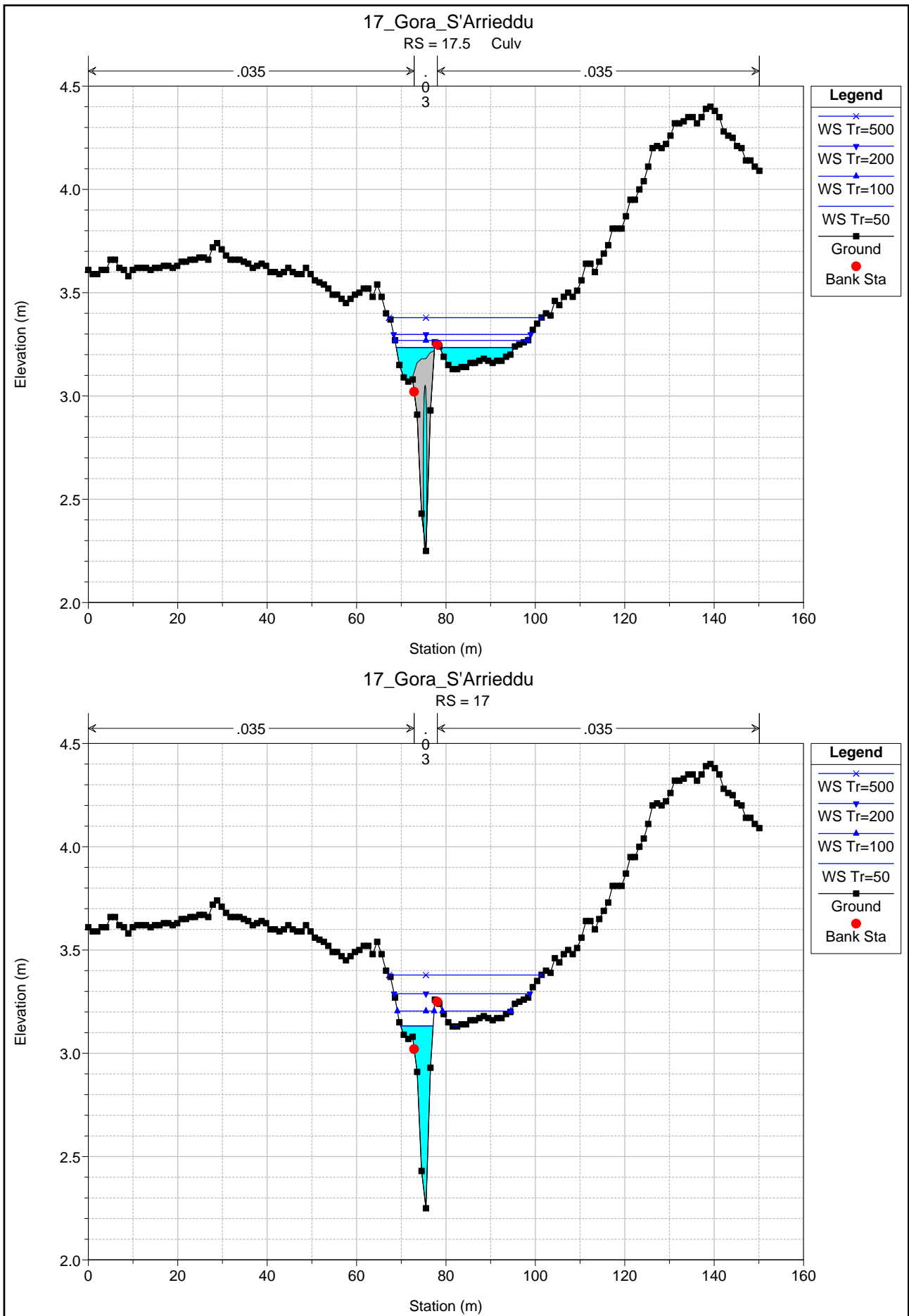


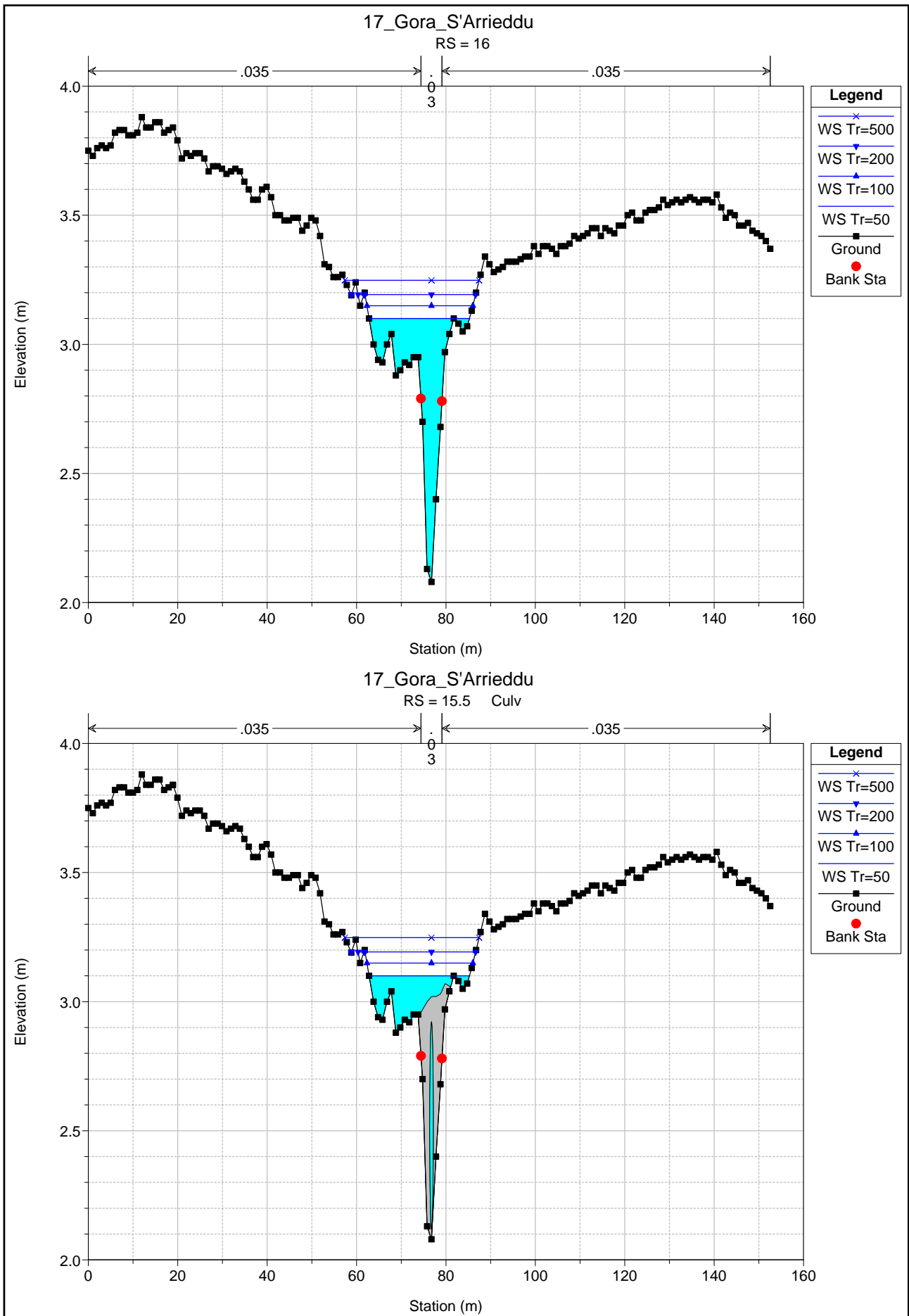
17_Gora_S'Arrieddu
RS = 18

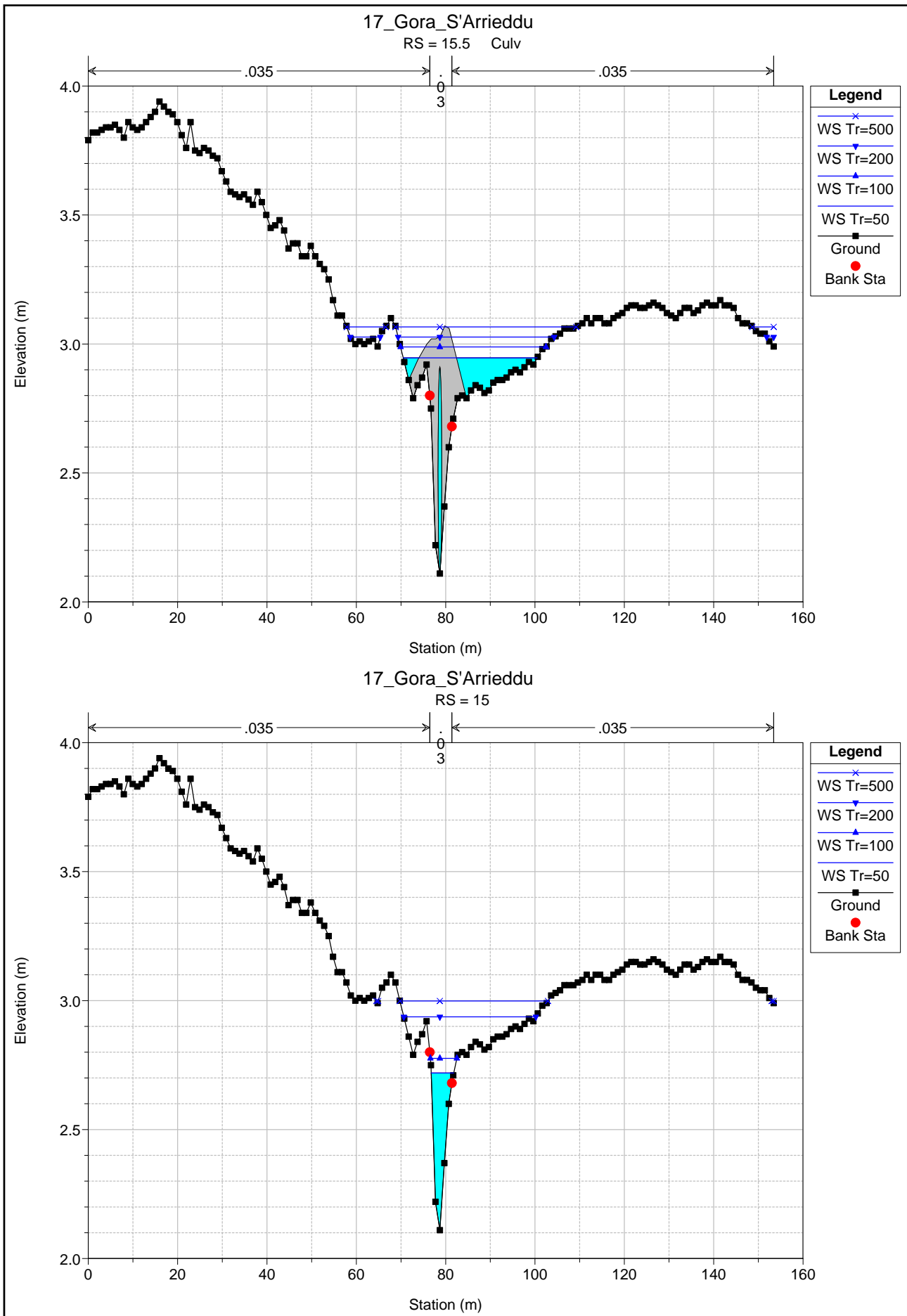


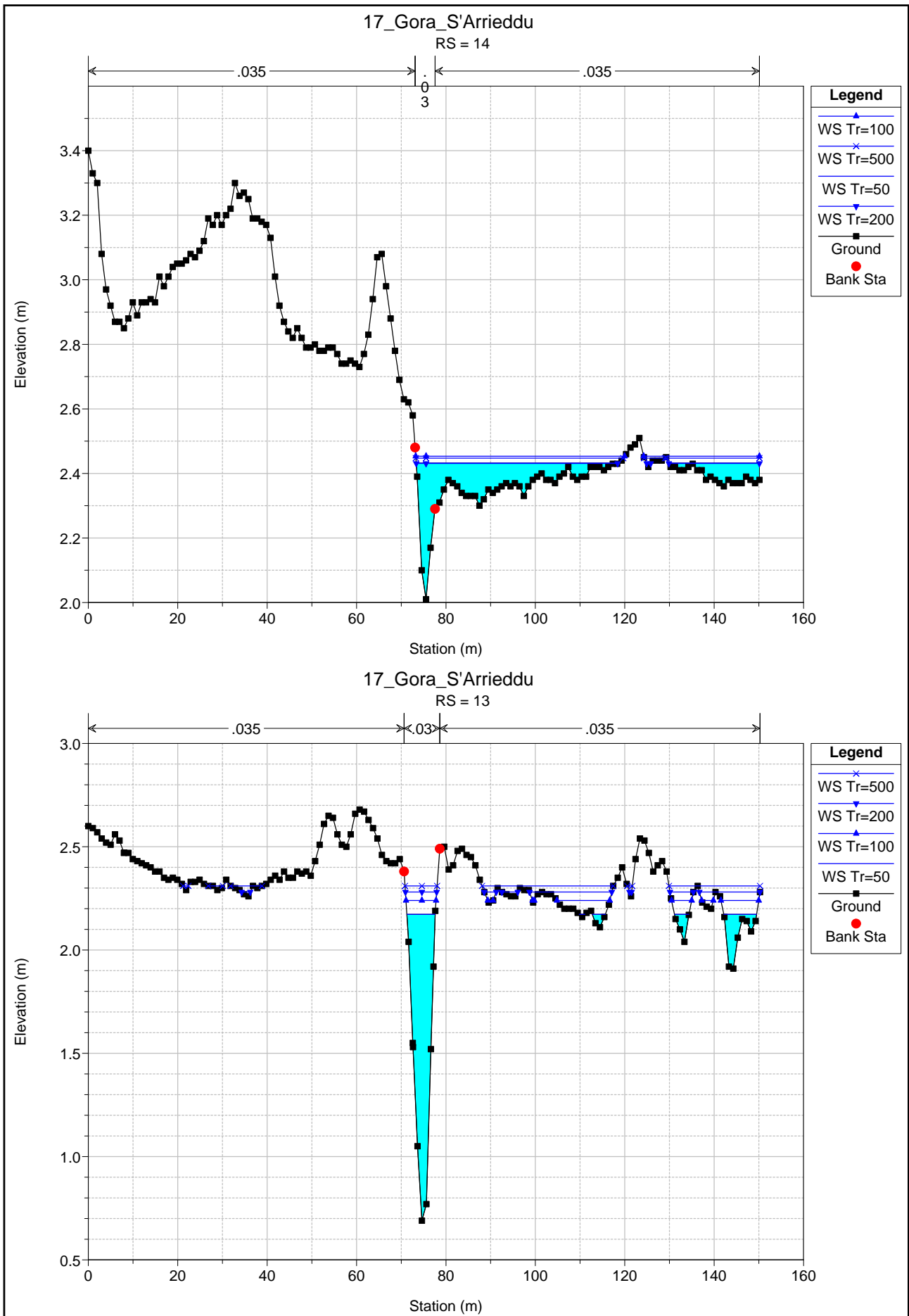
17_Gora_S'Arrieddu
RS = 17.5 Culv

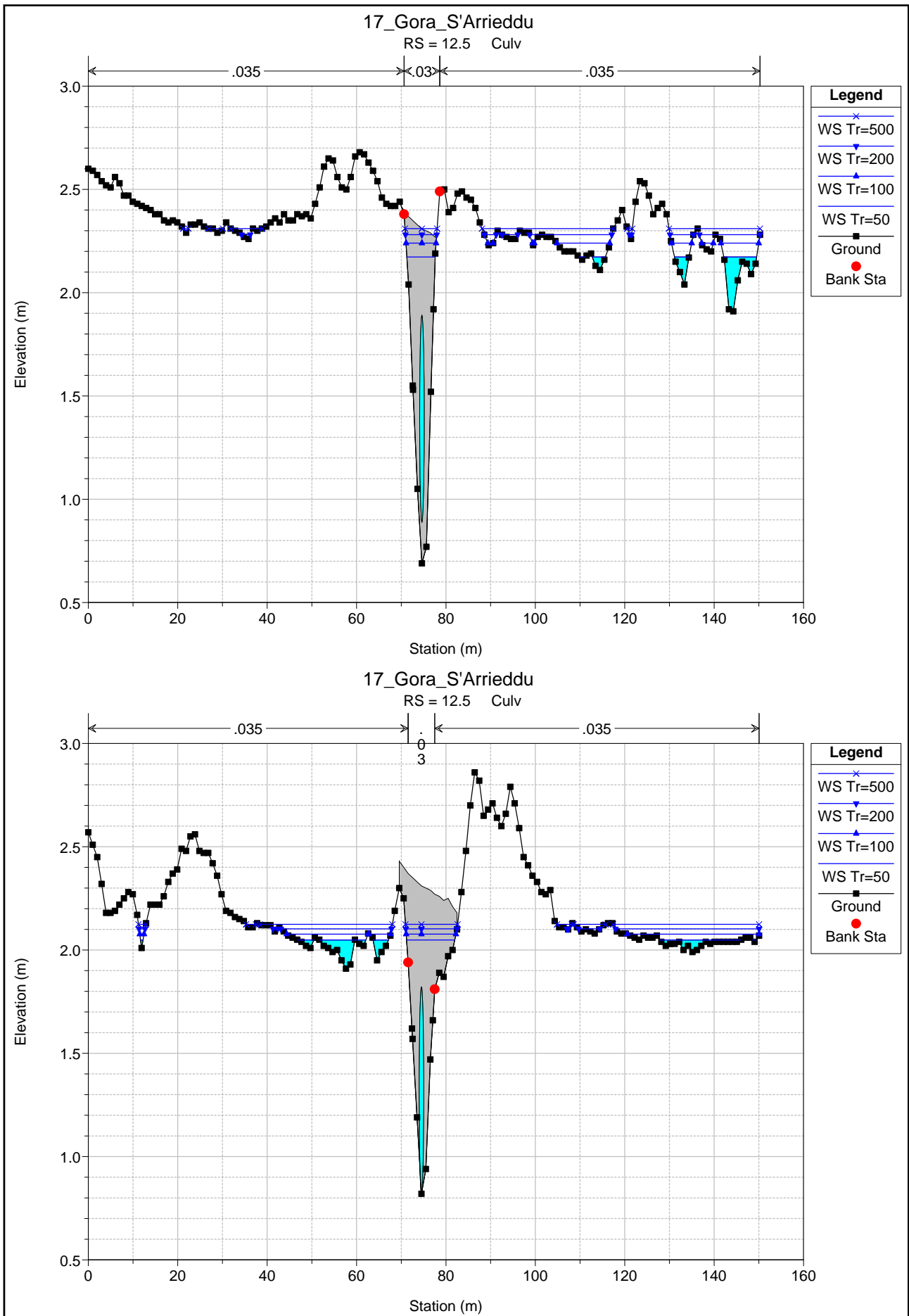


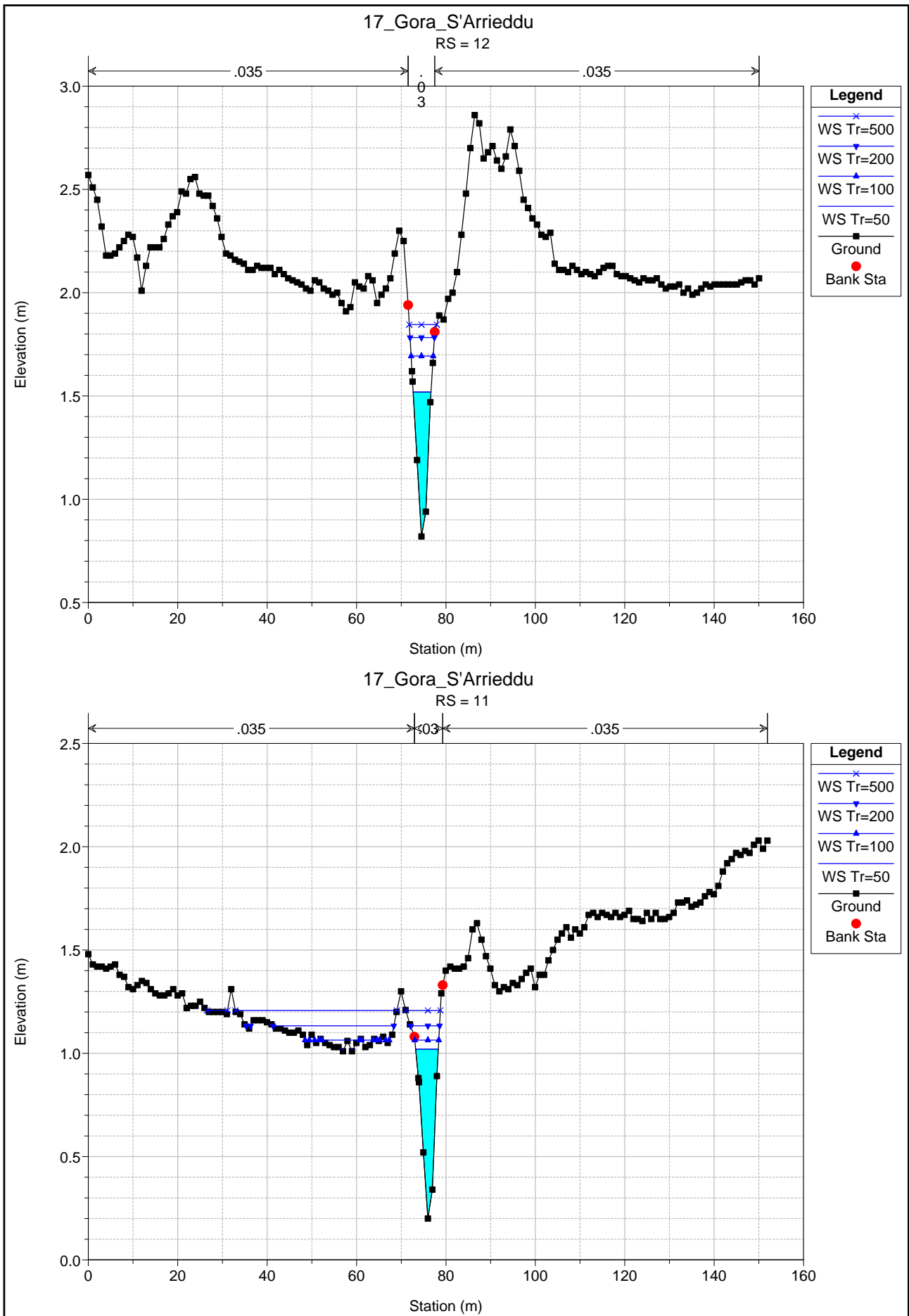






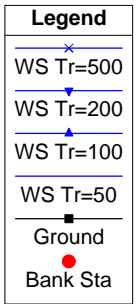
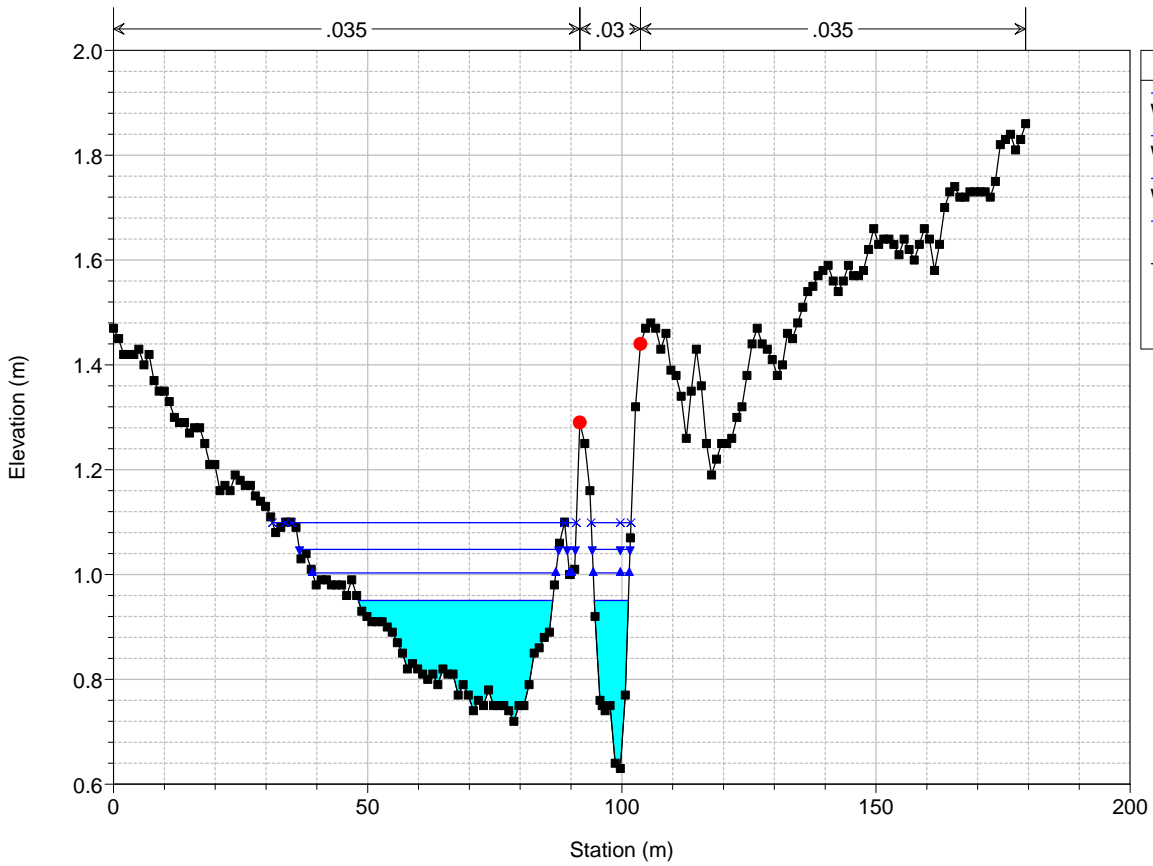






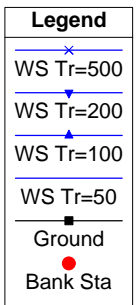
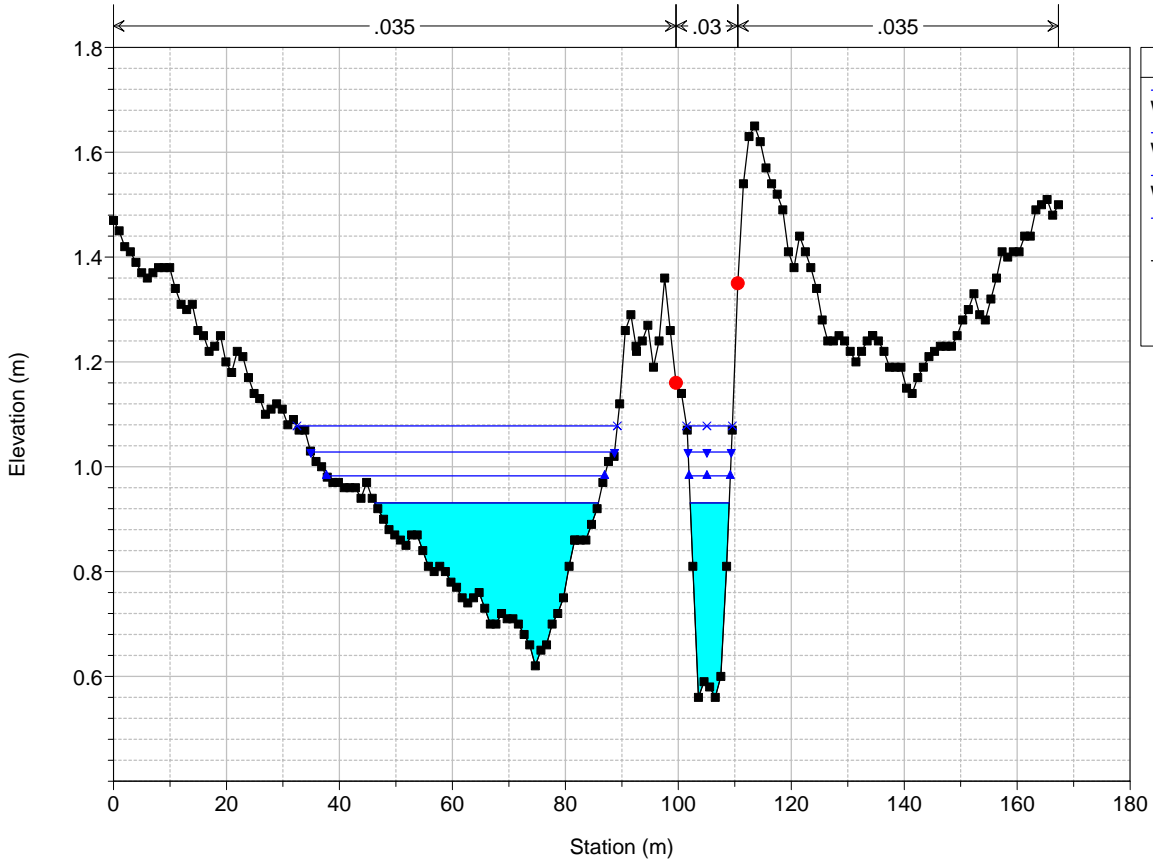
17_Gora_S'Arrieddu

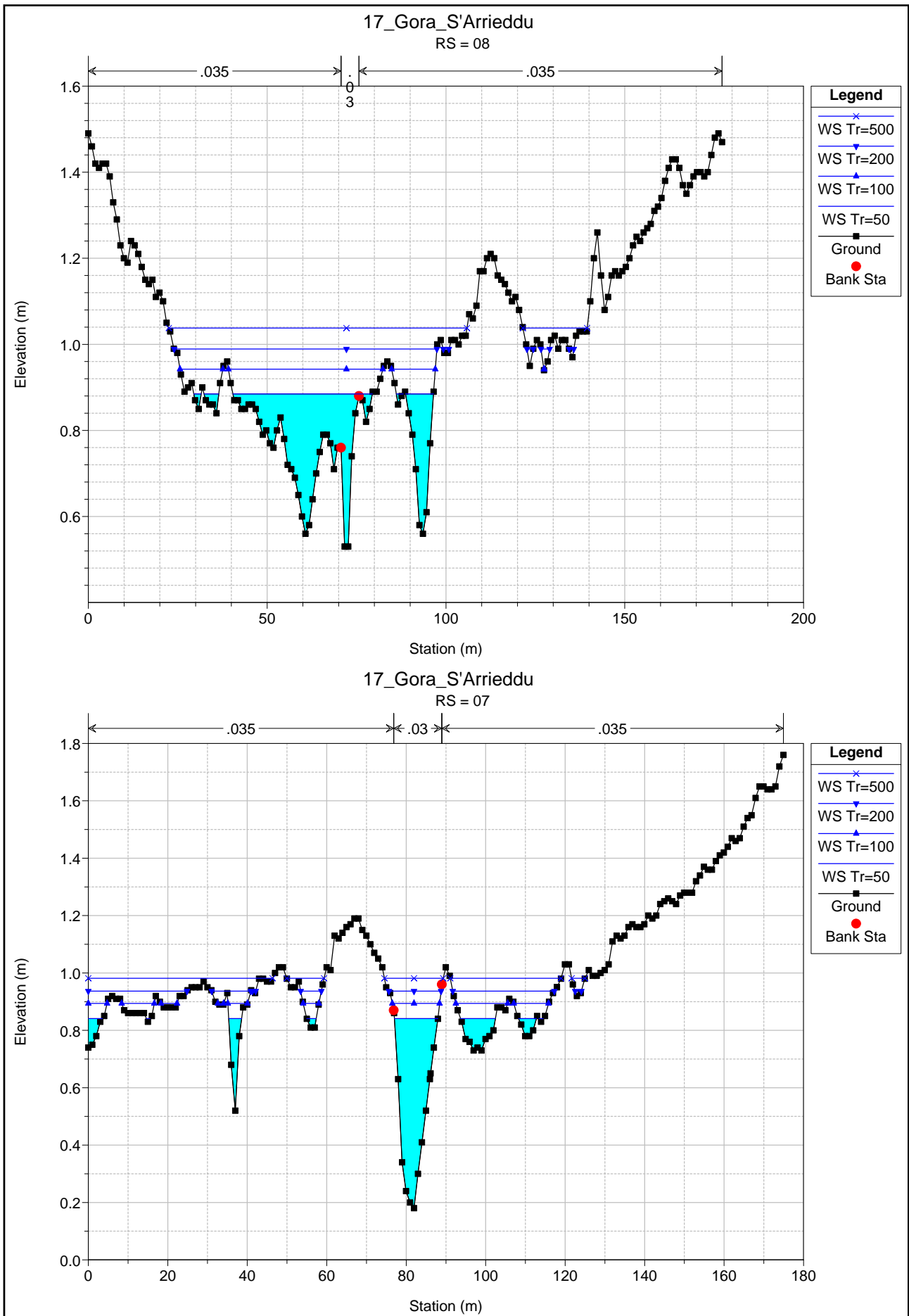
RS = 10

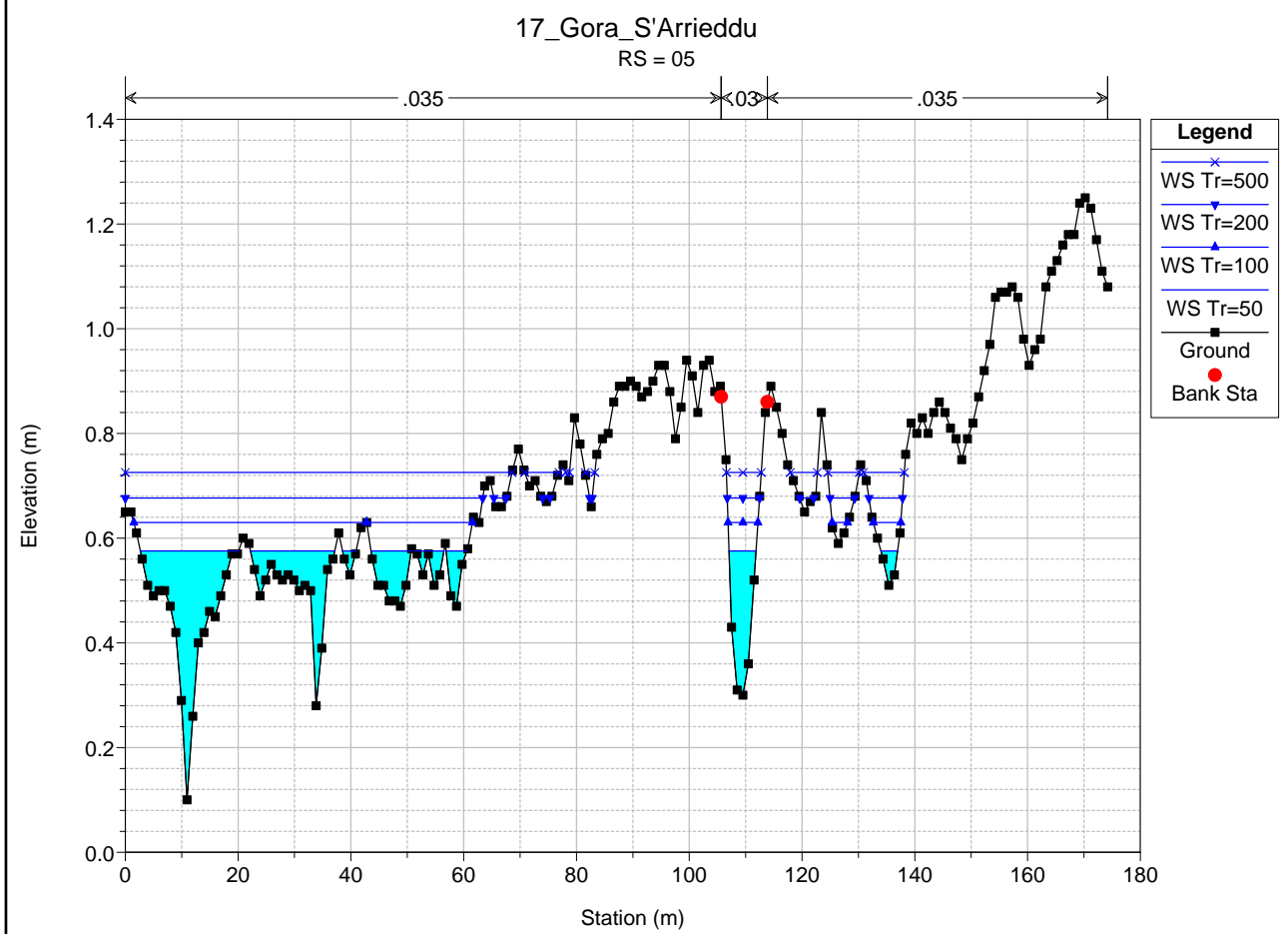
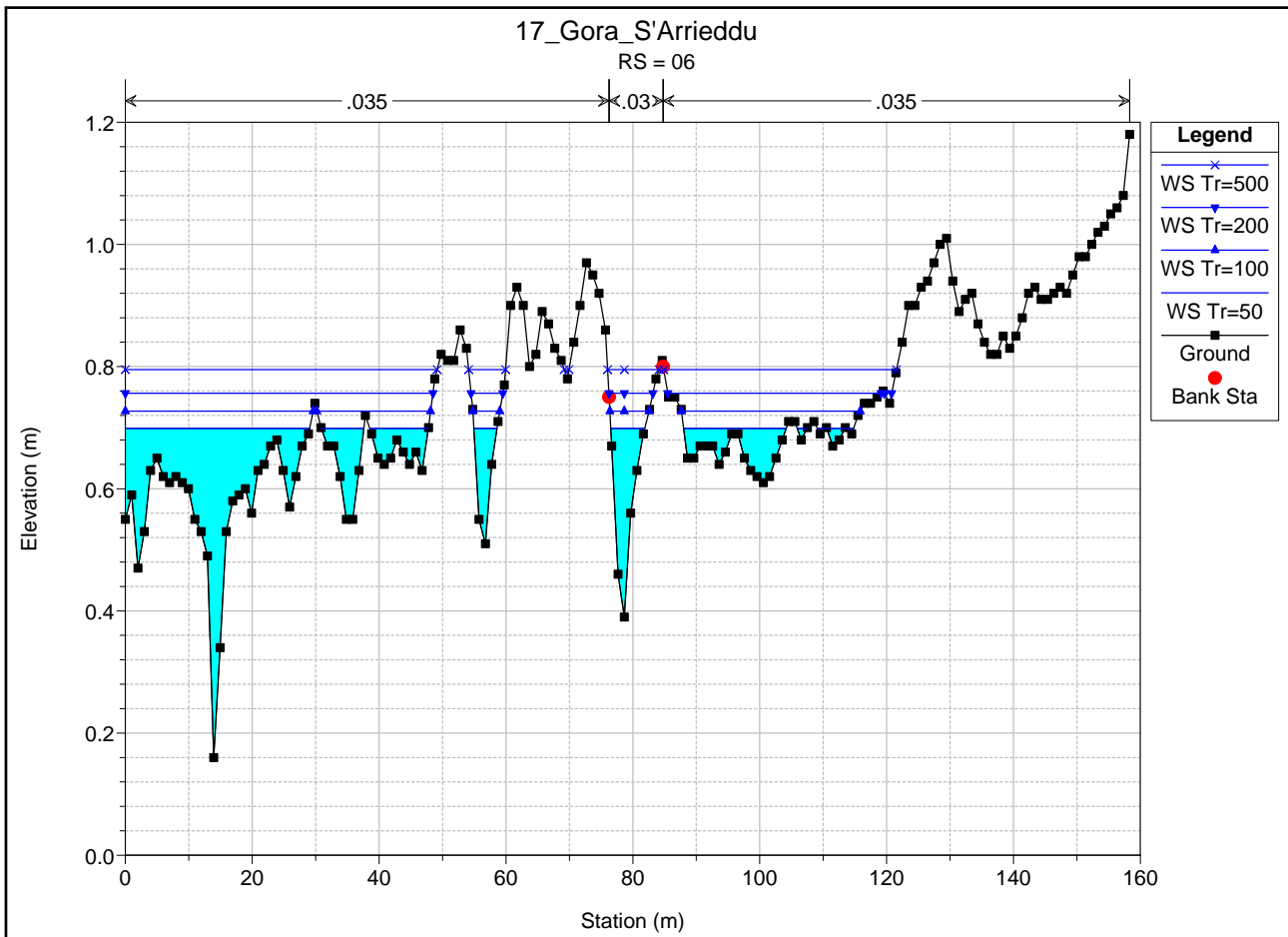


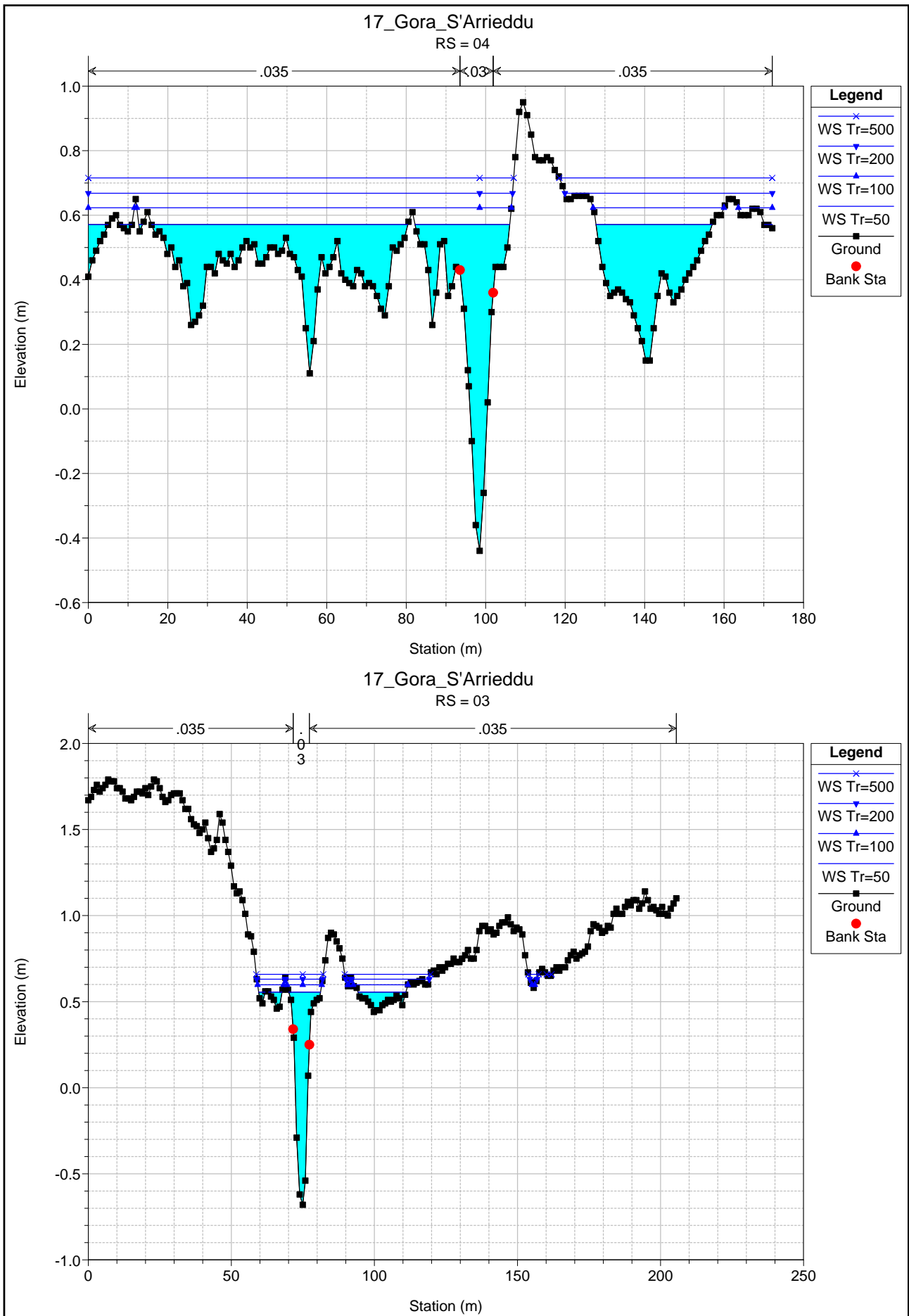
17_Gora_S'Arrieddu

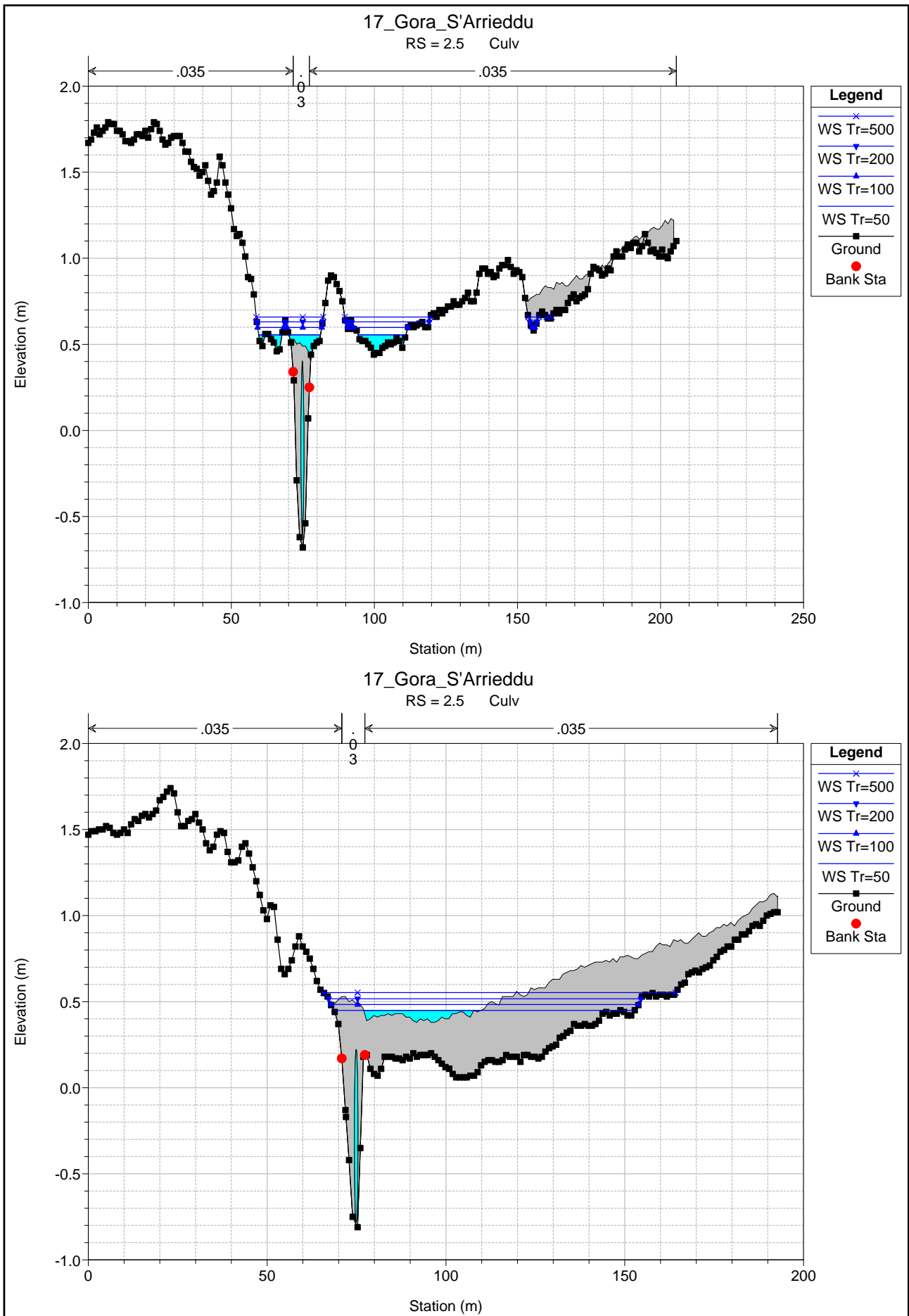
RS = 09



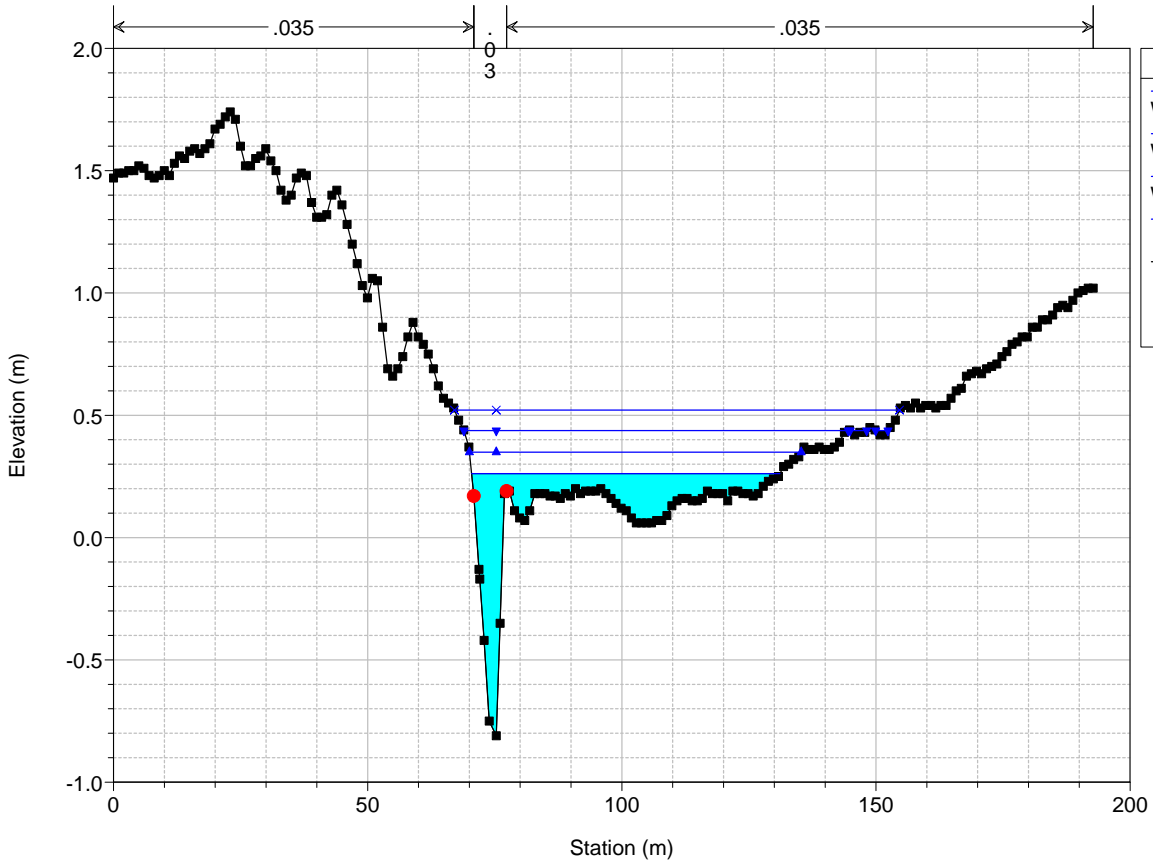






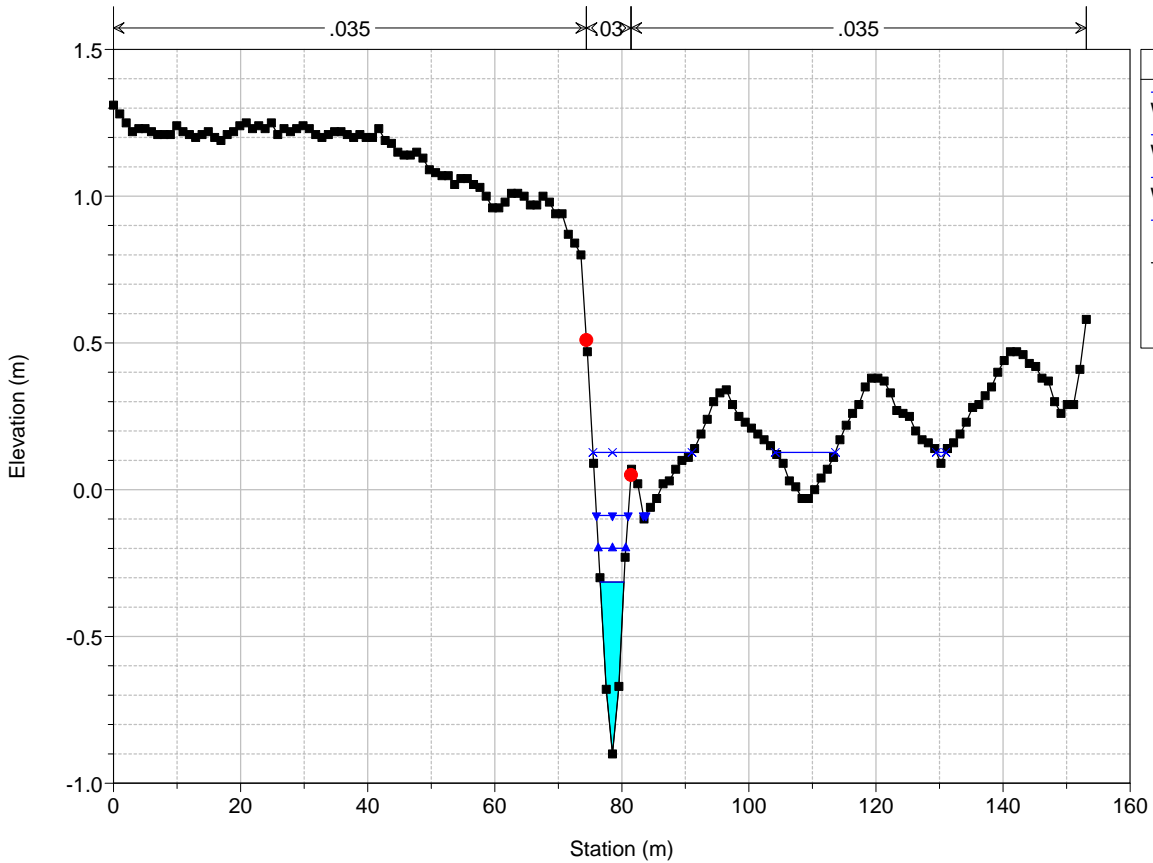


17_Gora_S'Arrieddu
RS = 02



- Legend**
- WS Tr=500
 - WS Tr=200
 - WS Tr=100
 - WS Tr=50
 - Ground
 - Bank Sta

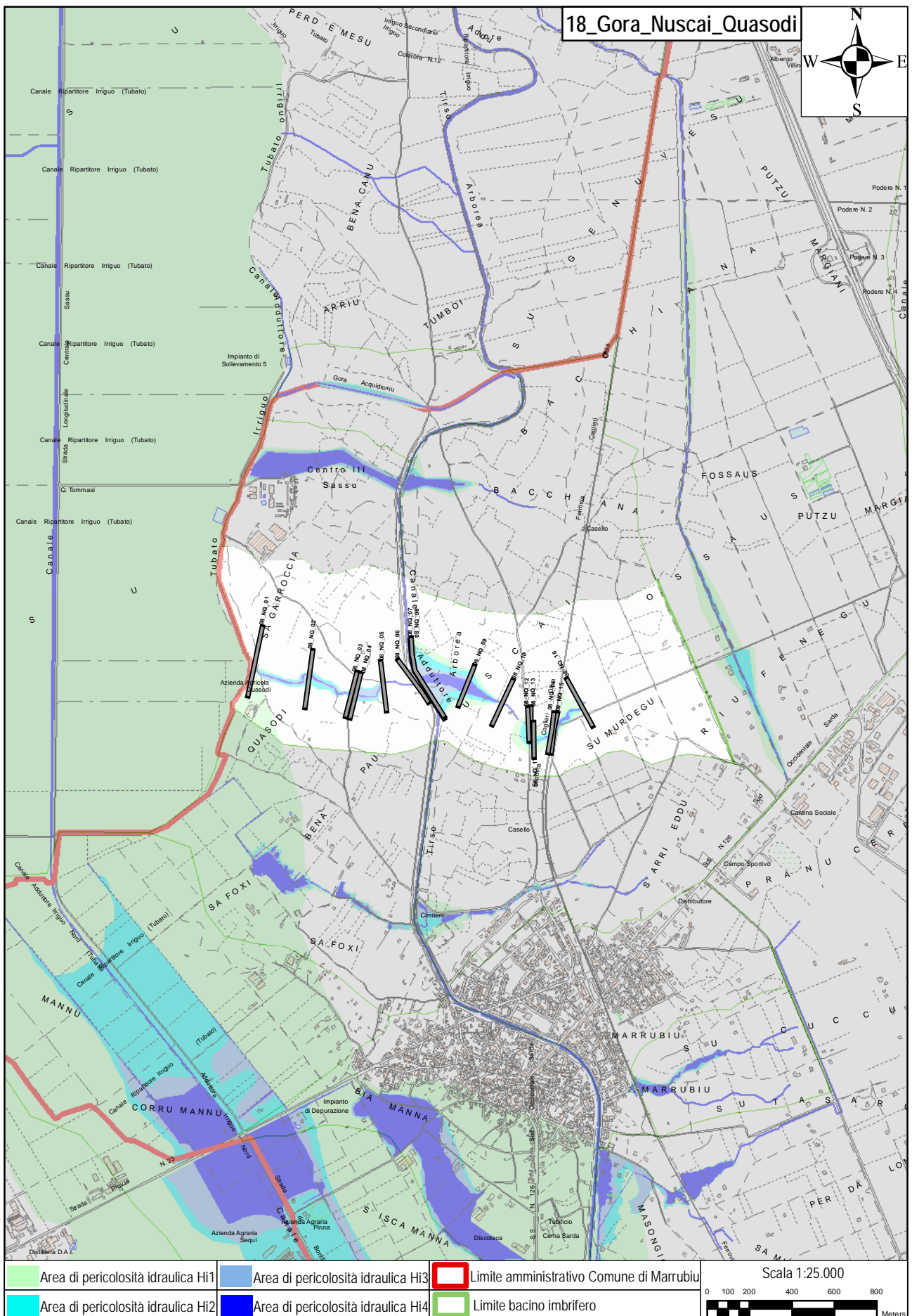
17_Gora_S'Arrieddu
RS = 01



- Legend**
- WS Tr=500
 - WS Tr=200
 - WS Tr=100
 - WS Tr=50
 - Ground
 - Bank Sta

11. Gora Nuscai Quasodi

Inquadramento



Principali grandezze morfometriche

GORA NUSCAI QUASODI – sub-bacino n. 18			
Superficie del bacino	S	1,71	[km ²]
Altitudine massima	H_{max}	19,2	[m slm]
Altitudine minima	H_{min}	1,8	[m slm]
Altitudine media	H_{med}	8,5	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	17,4	[m]
Pendenza media del bacino	p_m	1,4	[%]
Lunghezza dell'asta principale	L	1,95	[km]
Pendenza dell'asta principale	i	1,4	[%]
Quota della sezione di chiusura	H_{min}	2,9	[m slm]
Curve Number	CN	69,50	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	3,16	[m/s]
Ventura	t_c	2,01	[m/s]
Giandotti	t_c	5,84	[m/s]
Pasini	t_c	1,74	[m/s]
VAPI	t_c	2,64	[m/s]
Viparelli	t_c	0,54	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 16)	0,71	1,10	1,54	2,25	[m ³ /s]
TCEV (sez. 06)	1,28	1,95	2,74	3,98	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

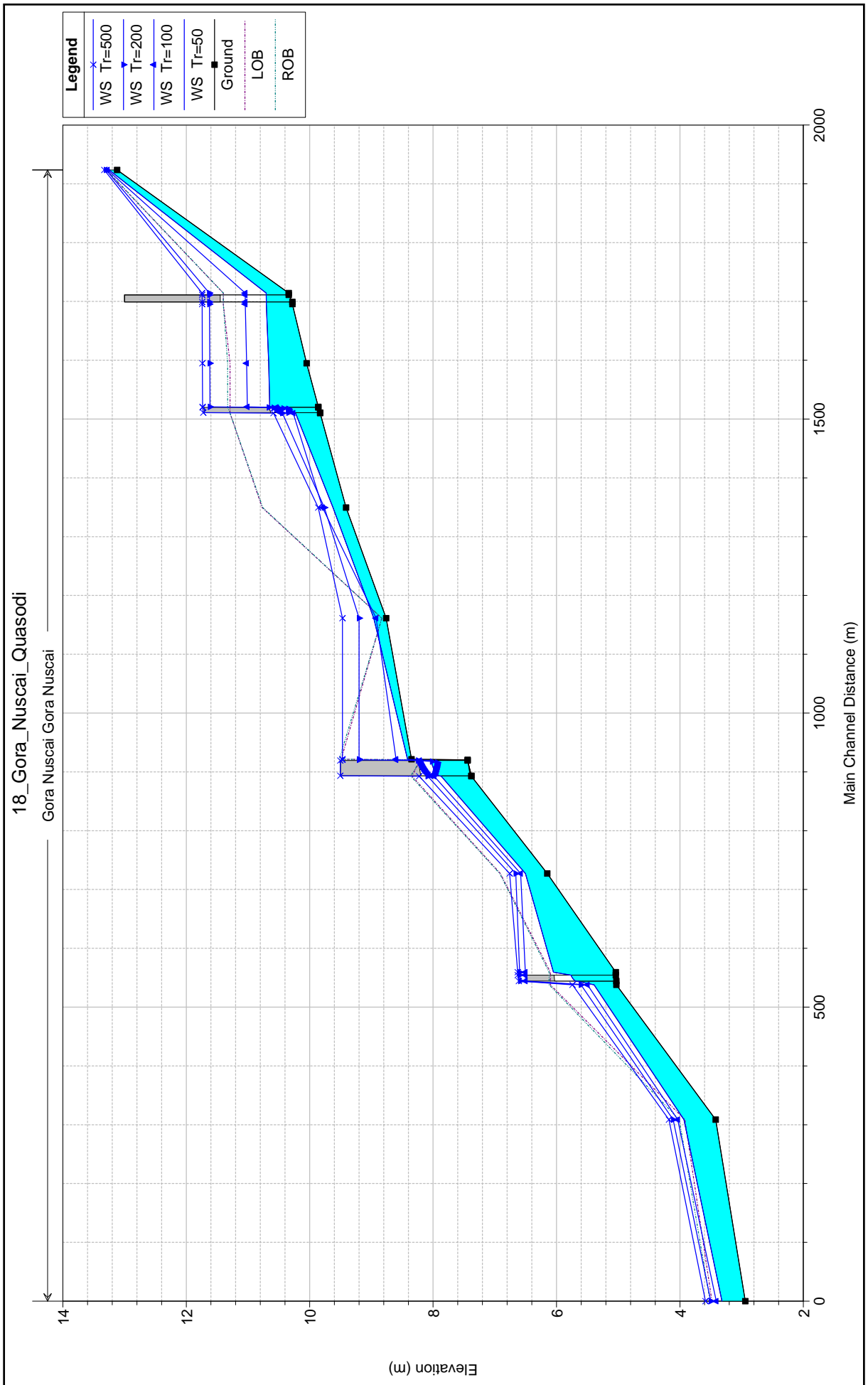
HEC-RAS Plan: 1 River: Gora Nuscai Reach: Gora Nuscai

Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Gora Nuscai	16	Tr=50	209.41	0.71	13.12	13.25	0.83	0.86	1.00
Gora Nuscai	16	Tr=100	209.41	1.10	13.12	13.28	0.91	1.21	1.00
Gora Nuscai	16	Tr=200	209.41	1.54	13.12	13.30	0.99	1.56	1.05
Gora Nuscai	16	Tr=500	209.41	2.25	13.12	13.33	1.09	2.19	1.19
Gora Nuscai	15	Tr=50	3.00	0.71	10.34	10.71	0.22	3.28	0.12
Gora Nuscai	15	Tr=100	3.00	1.10	10.34	11.04	0.17	6.51	0.07
Gora Nuscai	15	Tr=200	3.00	1.54	10.34	11.63	0.12	14.69	0.06
Gora Nuscai	15	Tr=500	3.00	2.25	10.34	11.75	0.15	21.33	0.09
Gora Nuscai	14.5		Bridge						
Gora Nuscai	14	Tr=50	100.69	0.71	10.28	10.70	0.18	3.86	0.09
Gora Nuscai	14	Tr=100	100.69	1.10	10.28	11.04	0.15	7.16	0.06
Gora Nuscai	14	Tr=200	100.69	1.54	10.28	11.62	0.11	15.31	0.06
Gora Nuscai	14	Tr=500	100.69	2.25	10.28	11.74	0.14	21.81	0.08
Gora Nuscai	13	Tr=50	74.00	0.71	10.05	10.66	0.59	1.20	0.26
Gora Nuscai	13	Tr=100	74.00	1.10	10.05	11.02	0.53	2.06	0.19
Gora Nuscai	13	Tr=200	74.00	1.54	10.05	11.62	0.30	12.33	0.21
Gora Nuscai	13	Tr=500	74.00	2.25	10.05	11.74	0.28	22.99	0.14
Gora Nuscai	12	Tr=50	10.67	0.71	9.86	10.65	0.44	1.60	0.17
Gora Nuscai	12	Tr=100	10.67	1.10	9.86	11.01	0.44	2.50	0.14
Gora Nuscai	12	Tr=200	10.67	1.54	9.86	11.62	0.30	10.00	0.20
Gora Nuscai	12	Tr=500	10.67	2.25	9.86	11.74	0.32	19.66	0.19
Gora Nuscai	11.5		Culvert						
Gora Nuscai	11	Tr=50	160.62	0.71	9.83	10.23	0.95	0.75	0.50
Gora Nuscai	11	Tr=100	160.62	1.10	9.83	10.27	1.33	0.83	0.68
Gora Nuscai	11	Tr=200	160.62	1.54	9.83	10.44	1.28	1.21	0.56
Gora Nuscai	11	Tr=500	160.62	2.25	9.83	10.59	1.46	1.54	0.58
Gora Nuscai	10	Tr=50	188.16	0.71	9.41	9.62	1.42	0.50	1.01
Gora Nuscai	10	Tr=100	188.16	1.10	9.41	9.79	1.18	0.93	0.63
Gora Nuscai	10	Tr=200	188.16	1.54	9.41	9.76	1.80	0.85	1.00
Gora Nuscai	10	Tr=500	188.16	2.25	9.41	9.86	2.02	1.11	1.00
Gora Nuscai	09	Tr=50	239.95	0.71	8.76	8.96	0.28	4.72	0.23
Gora Nuscai	09	Tr=100	239.95	1.10	8.76	8.92	0.89	2.39	1.01
Gora Nuscai	09	Tr=200	239.95	1.54	8.76	9.20	0.09	27.65	0.04
Gora Nuscai	09	Tr=500	239.95	2.25	8.76	9.47	0.06	66.43	0.02
Gora Nuscai	08	Tr=50	1.00	0.71	8.35	8.41	0.59	1.21	1.00
Gora Nuscai	08	Tr=100	1.00	1.10	8.35	8.60	0.05	22.51	0.05
Gora Nuscai	08	Tr=200	1.00	1.54	8.35	9.20	0.01	208.62	0.00
Gora Nuscai	08	Tr=500	1.00	2.25	8.35	9.47	0.01	312.31	0.00
Gora Nuscai	07	Tr=50	27.69	0.71	7.44	8.24	0.19	3.75	0.09
Gora Nuscai	07	Tr=100	27.69	1.10	7.44	8.60	0.10	26.18	0.07
Gora Nuscai	07	Tr=200	27.69	1.54	7.44	9.20	0.02	212.34	0.00
Gora Nuscai	07	Tr=500	27.69	2.25	7.44	9.47	0.01	316.04	0.00
Gora Nuscai	6.5		Culvert						
Gora Nuscai	06	Tr=50	165.62	1.28	7.38	7.87	1.13	1.13	0.59
Gora Nuscai	06	Tr=100	165.62	1.95	7.38	7.98	1.30	1.50	0.62
Gora Nuscai	06	Tr=200	165.62	2.74	7.38	8.09	1.47	1.87	0.66
Gora Nuscai	06	Tr=500	165.62	3.98	7.38	8.23	1.66	2.40	0.69
Gora Nuscai	05	Tr=50	167.68	1.28	6.15	6.50	1.49	0.86	1.00
Gora Nuscai	05	Tr=100	167.68	1.95	6.15	6.58	1.67	1.16	1.01

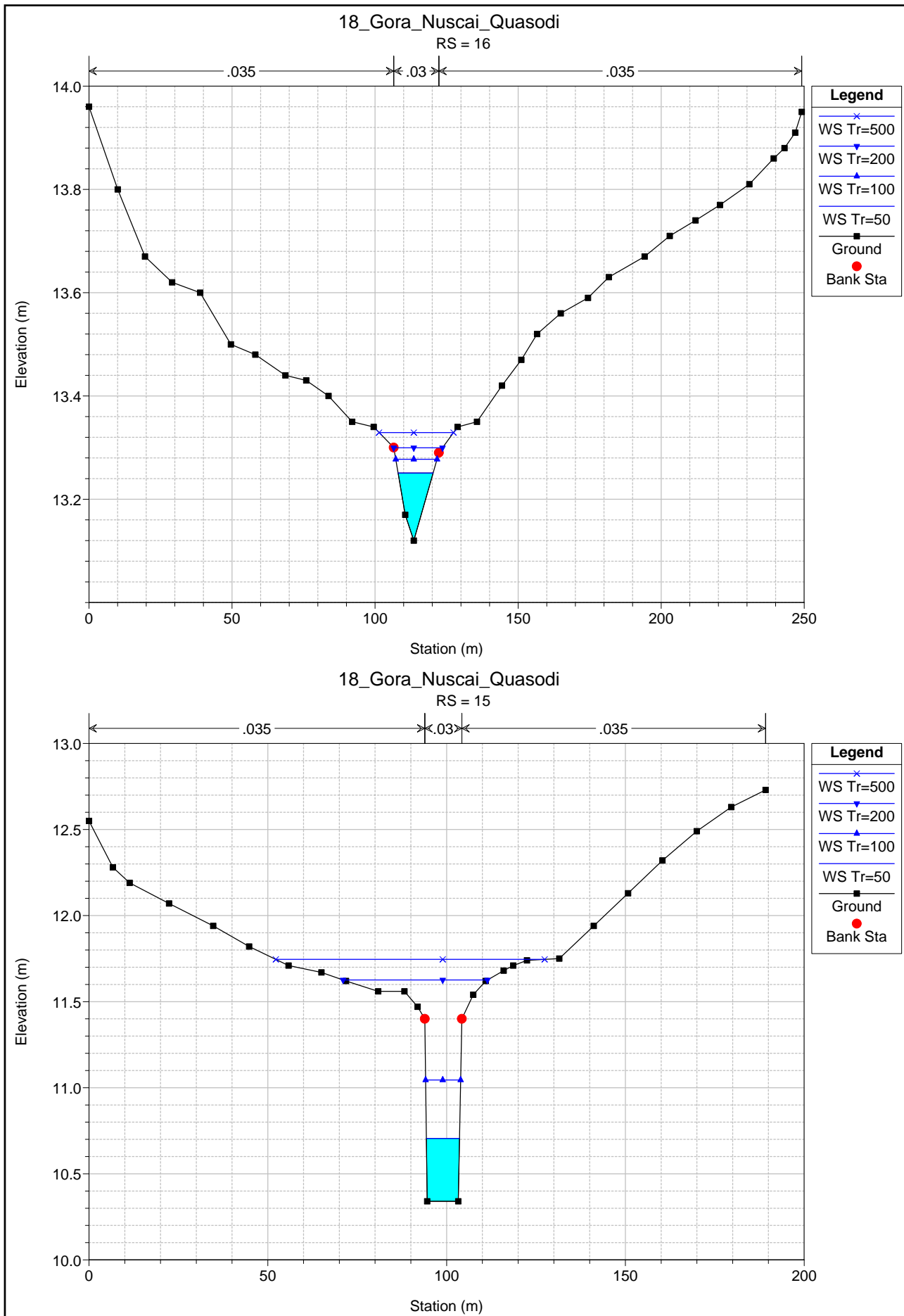
HEC-RAS Plan: 1 River: Gora Nuscai Reach: Gora Nuscai (Continued)

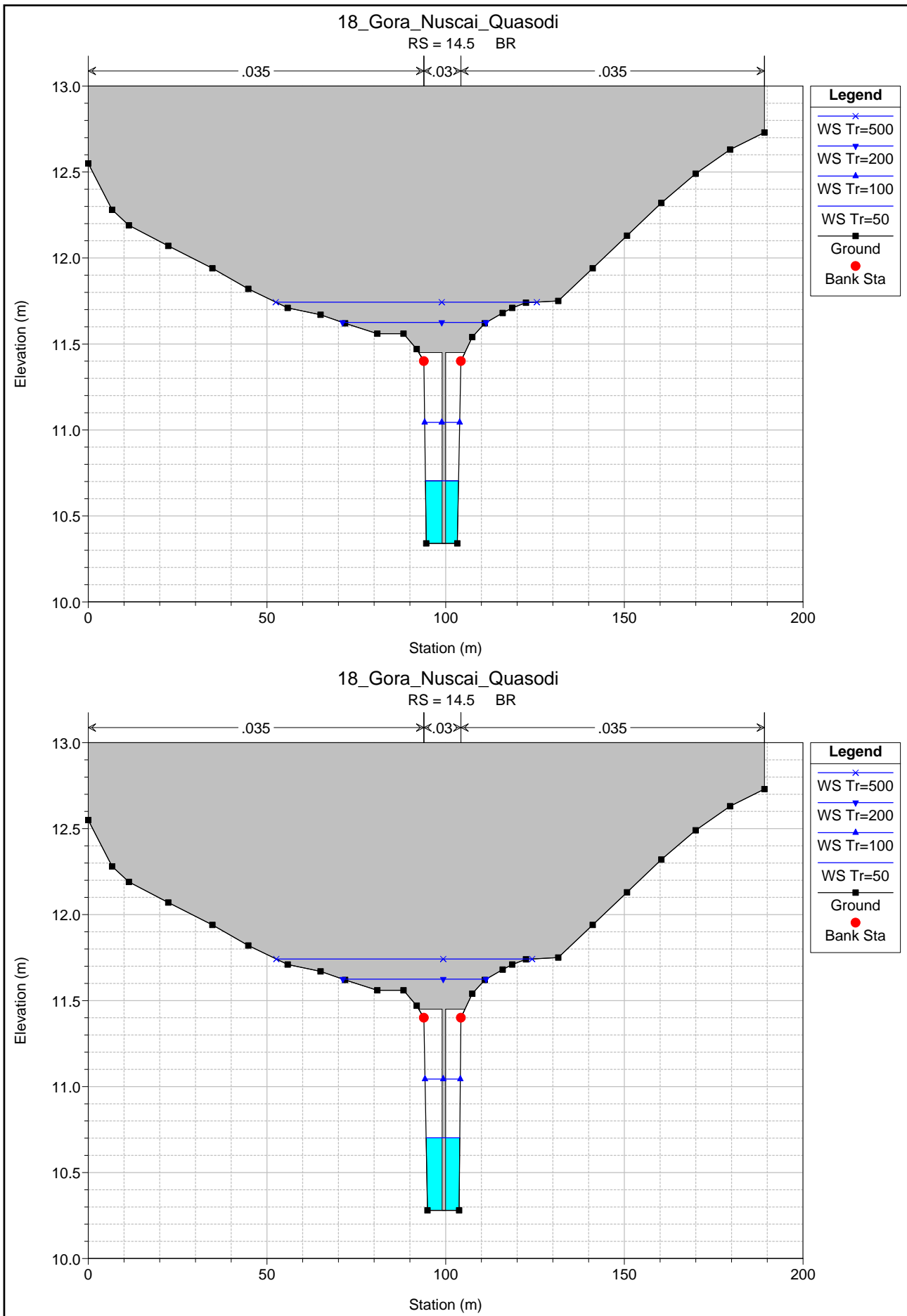
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Gora Nuscai	05	Tr=200	167.68	2.74	6.15	6.66	1.82	1.51	1.00
Gora Nuscai	05	Tr=500	167.68	3.98	6.15	6.76	2.01	1.98	1.01
Gora Nuscai	04	Tr=50	21.39	1.28	5.04	6.05	0.46	2.77	0.17
Gora Nuscai	04	Tr=100	21.39	1.95	5.04	6.50	0.35	9.17	0.22
Gora Nuscai	04	Tr=200	21.39	2.74	5.04	6.60	0.38	14.34	0.22
Gora Nuscai	04	Tr=500	21.39	3.98	5.04	6.63	0.50	16.44	0.27
Gora Nuscai	3.5		Culvert						
Gora Nuscai	03	Tr=50	229.42	1.28	5.03	5.39	1.74	0.74	1.01
Gora Nuscai	03	Tr=100	229.42	1.95	5.03	5.50	1.94	1.00	1.01
Gora Nuscai	03	Tr=200	229.42	2.74	5.03	5.60	2.12	1.29	1.01
Gora Nuscai	03	Tr=500	229.42	3.98	5.03	5.74	2.32	1.72	1.01
Gora Nuscai	02	Tr=50	308.59	1.28	3.42	3.93	0.65	1.98	0.36
Gora Nuscai	02	Tr=100	308.59	1.95	3.42	4.04	0.75	3.13	0.60
Gora Nuscai	02	Tr=200	308.59	2.74	3.42	4.11	0.80	5.51	0.68
Gora Nuscai	02	Tr=500	308.59	3.98	3.42	4.18	0.82	9.50	0.56
Gora Nuscai	01	Tr=50		1.28	2.94	3.32	0.77	1.65	0.47
Gora Nuscai	01	Tr=100		1.95	2.94	3.41	0.87	2.23	0.48
Gora Nuscai	01	Tr=200		2.74	2.94	3.50	0.96	2.85	0.53
Gora Nuscai	01	Tr=500		3.98	2.94	3.59	1.10	4.21	0.81

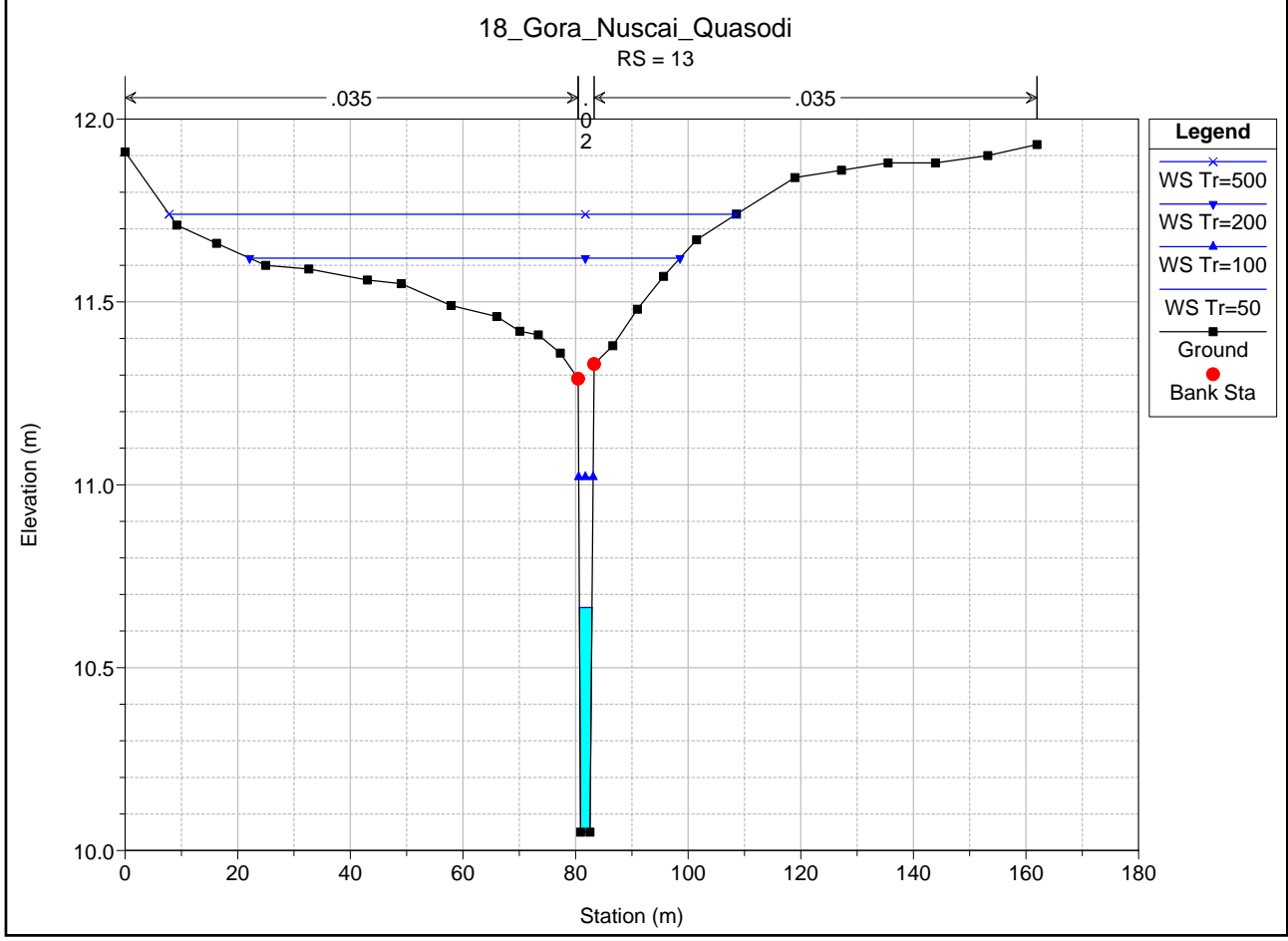
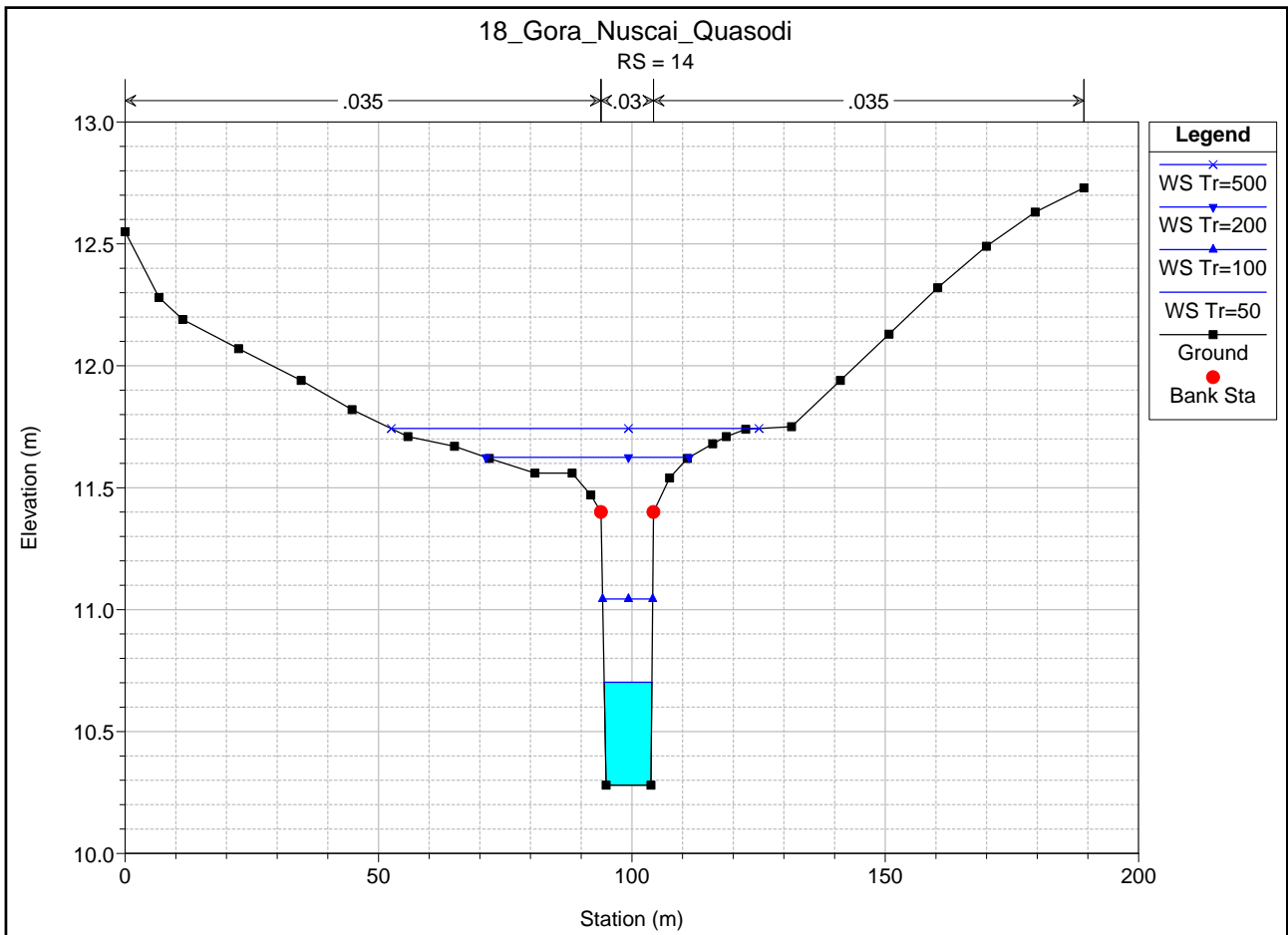
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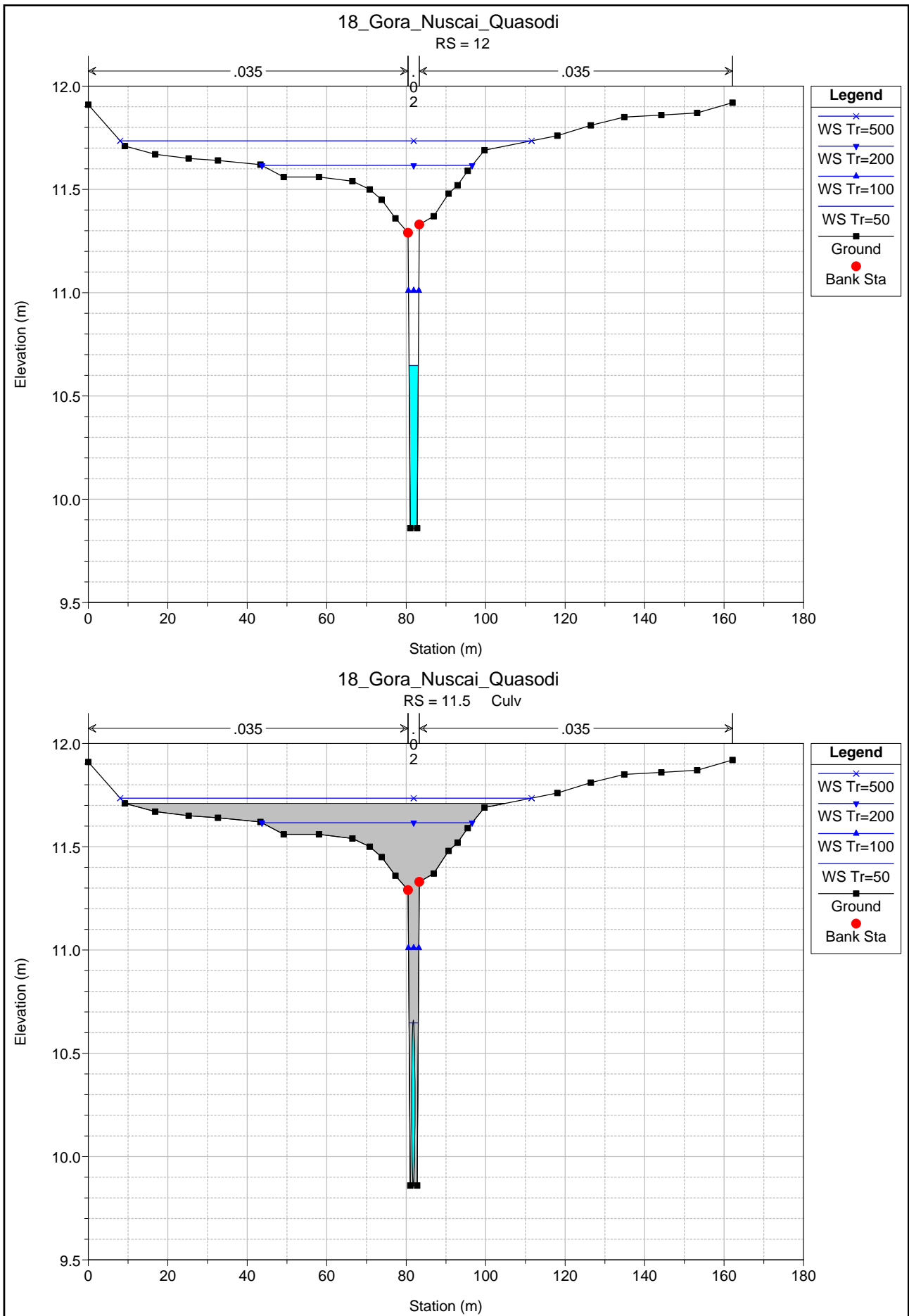


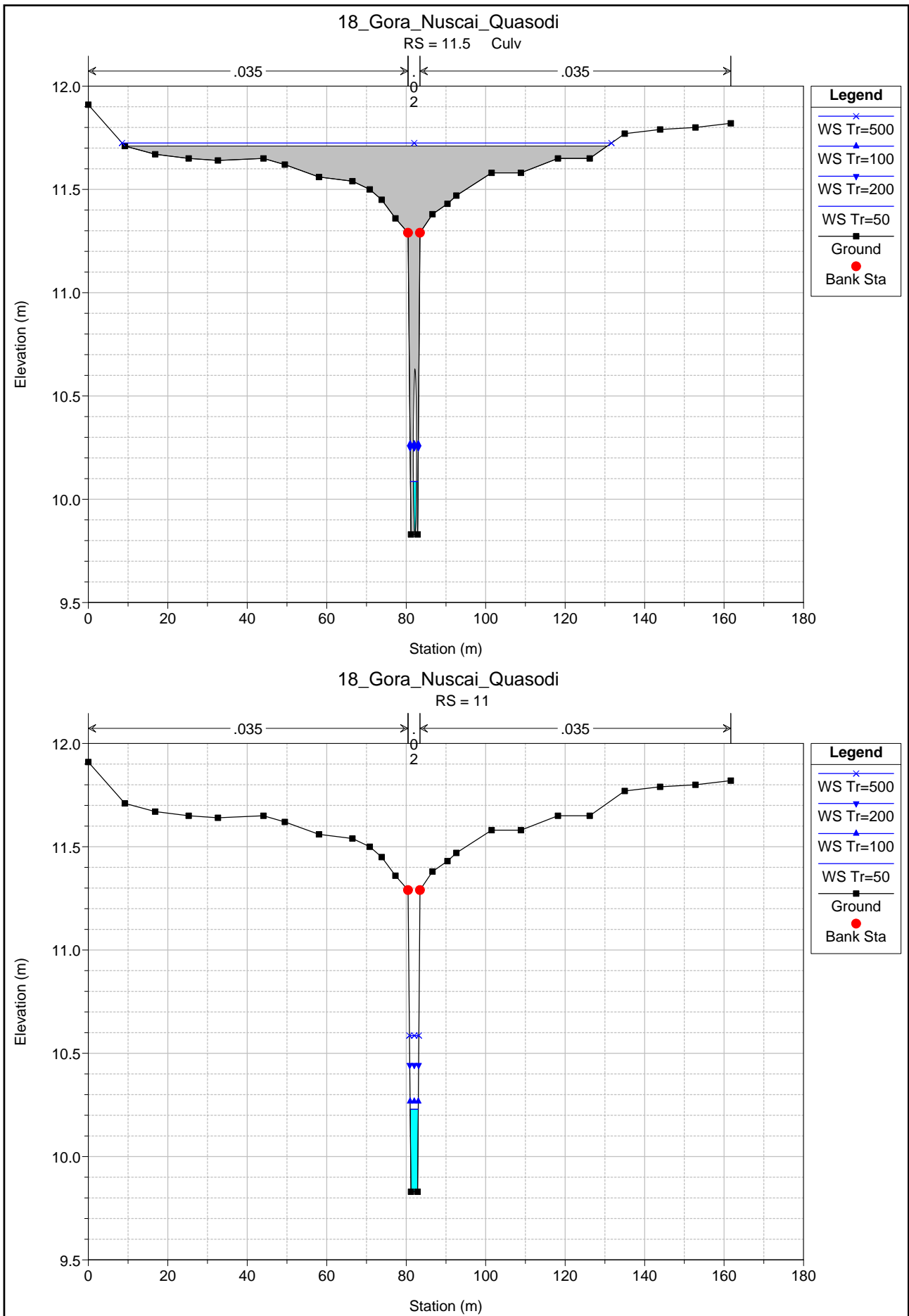
Sezioni fluviali relative ai tempi di ritorno considerati

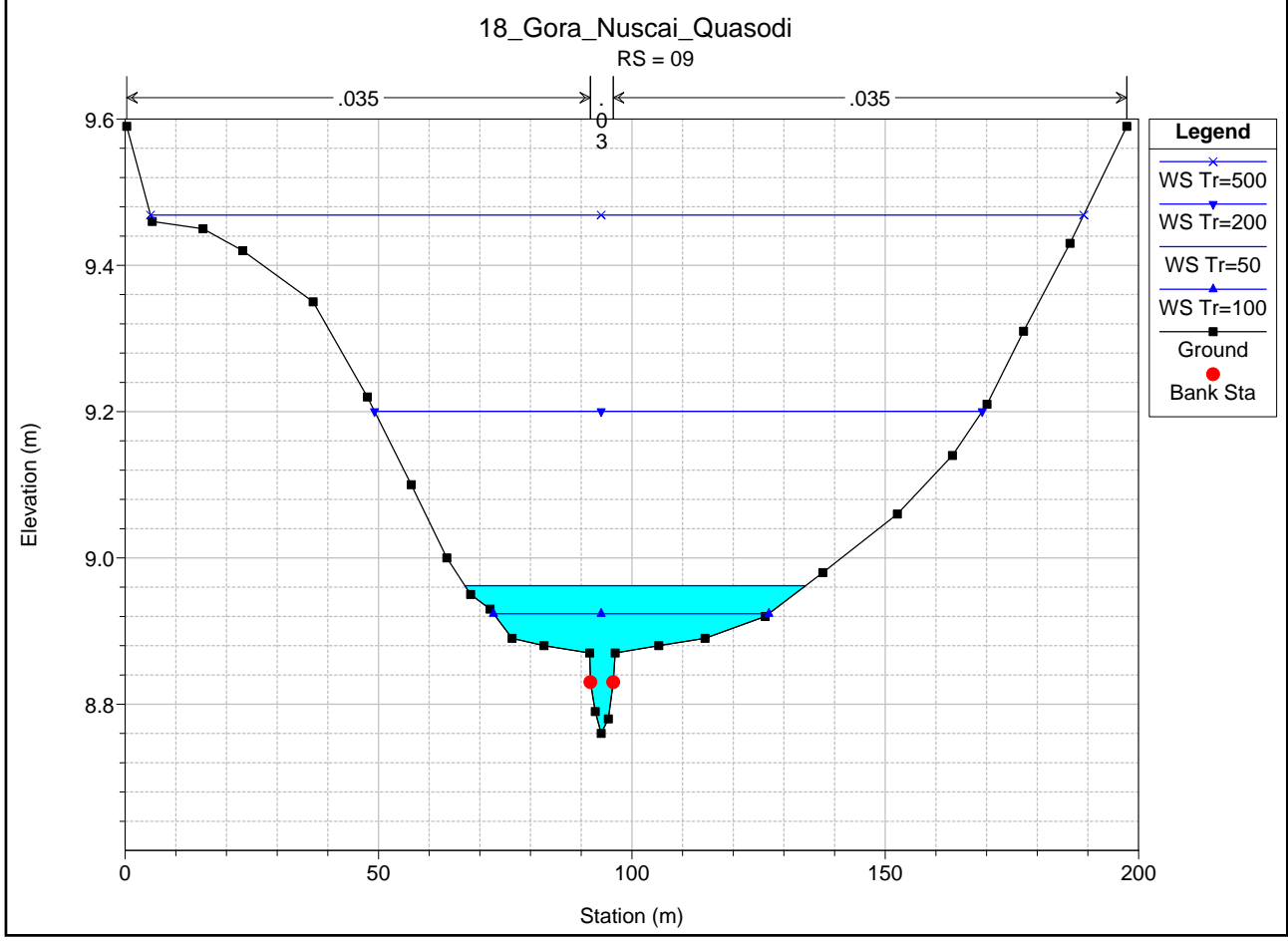
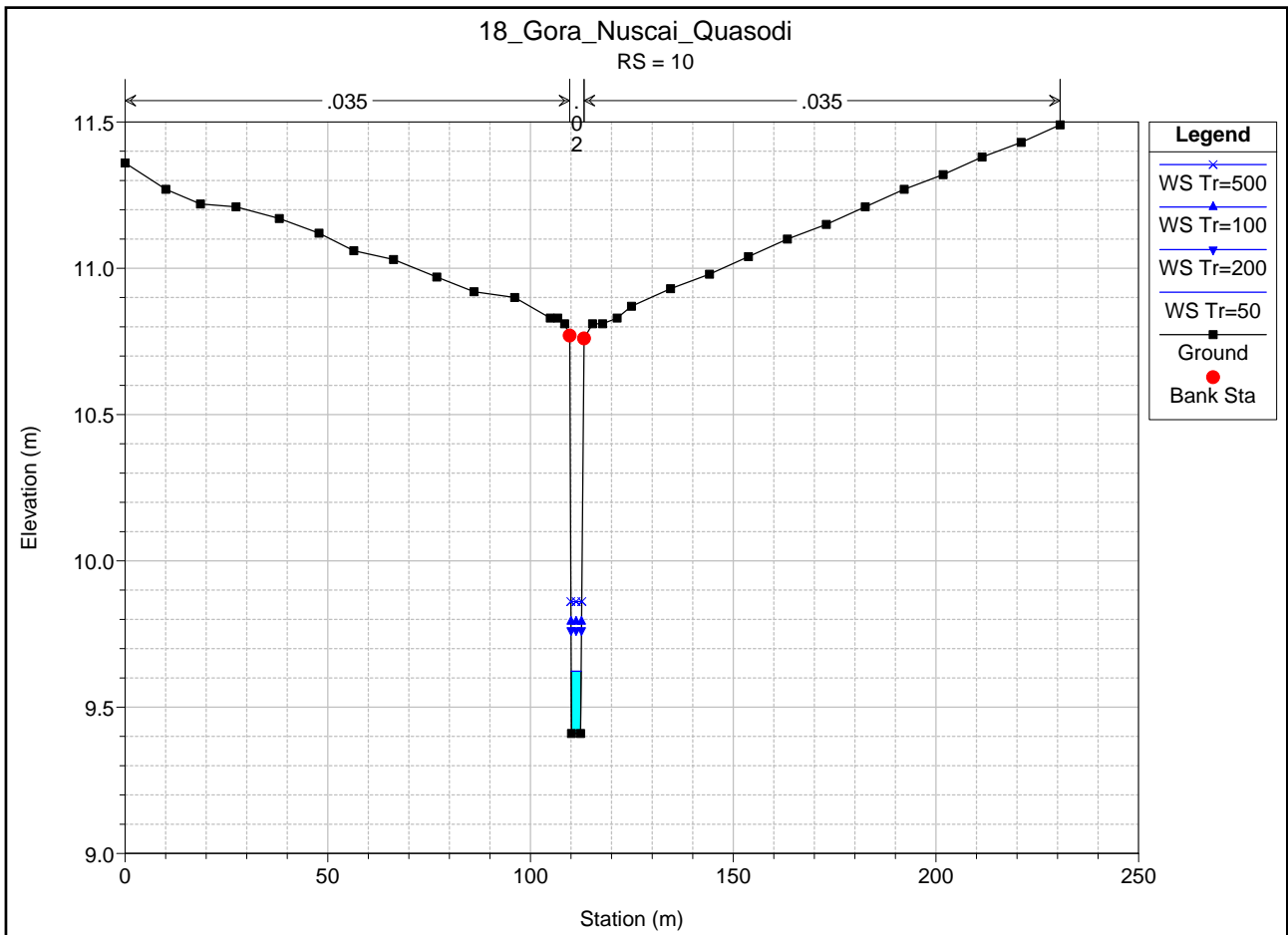






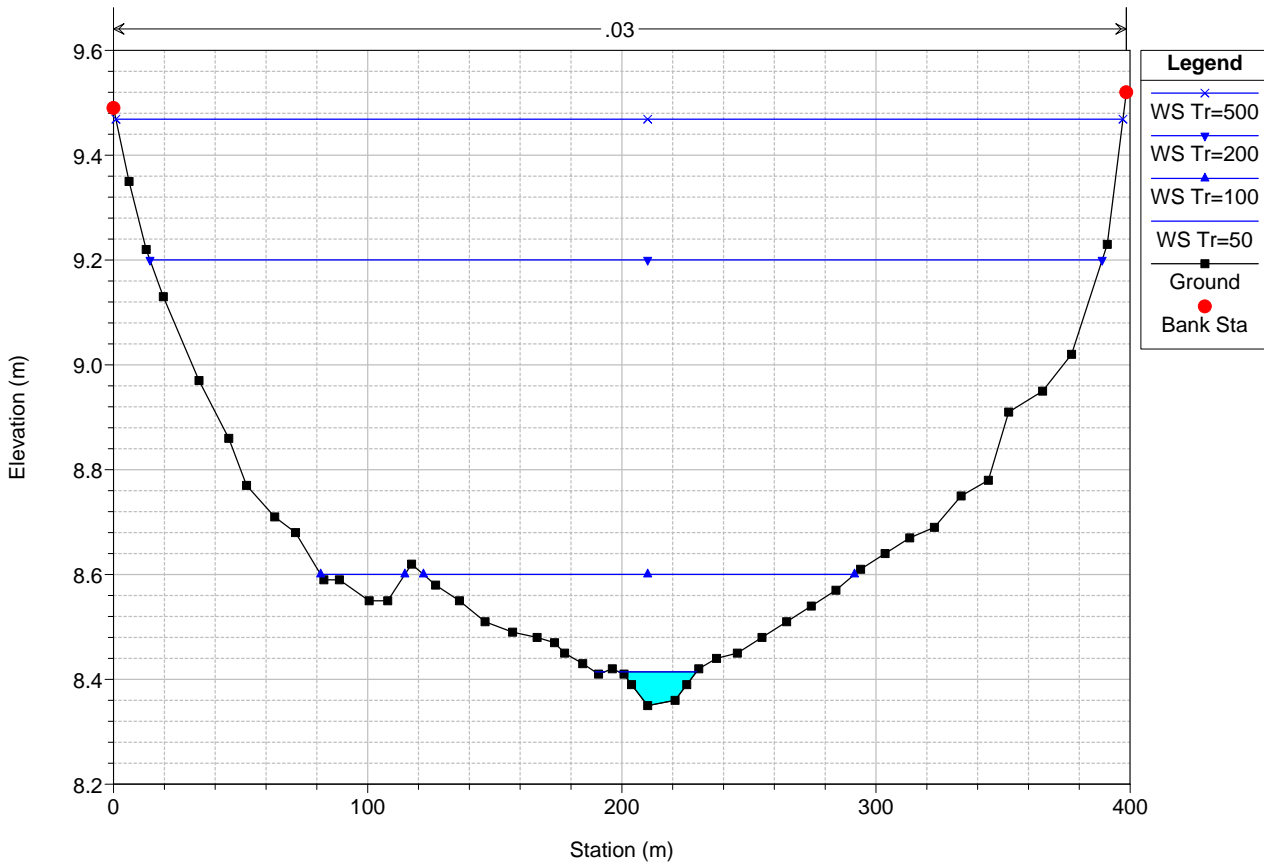






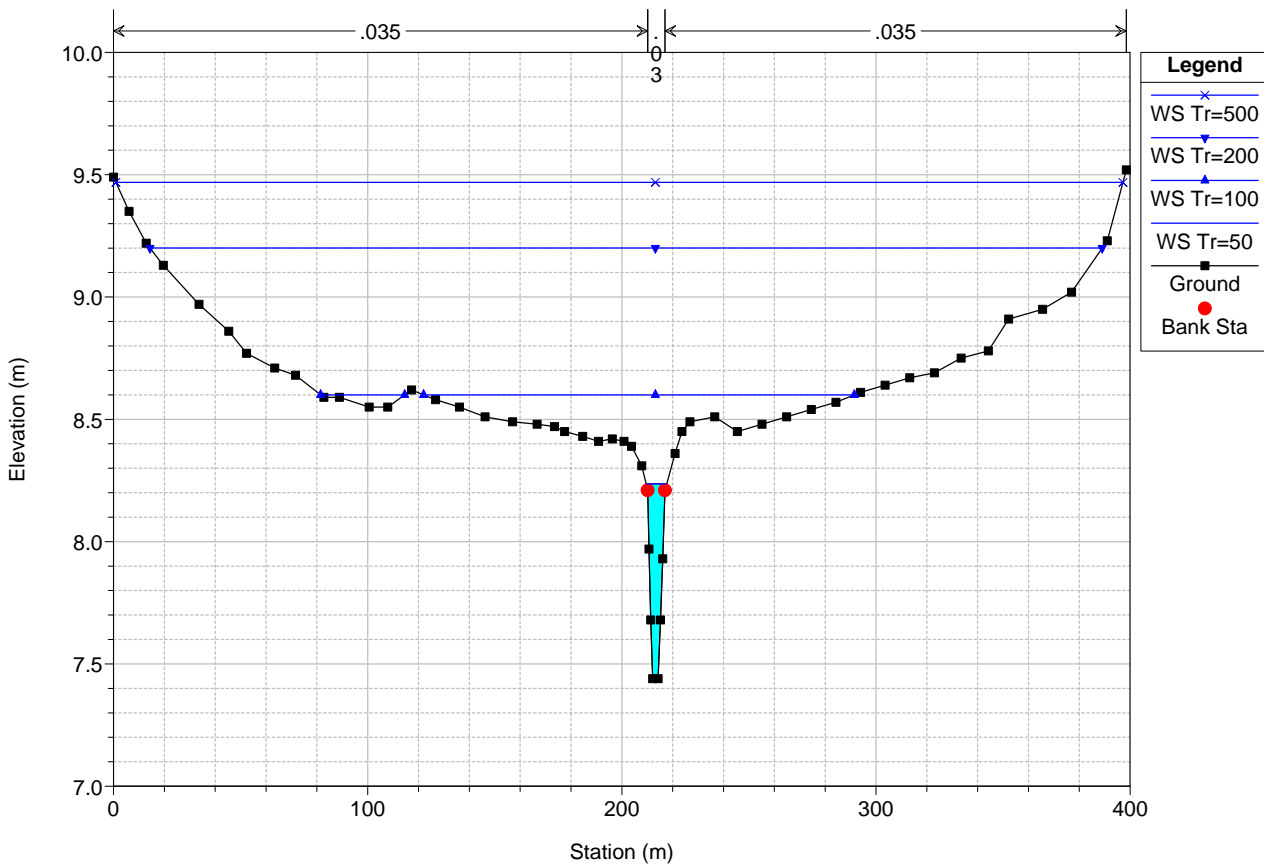
18_Gora_Nuscai_Quasodi

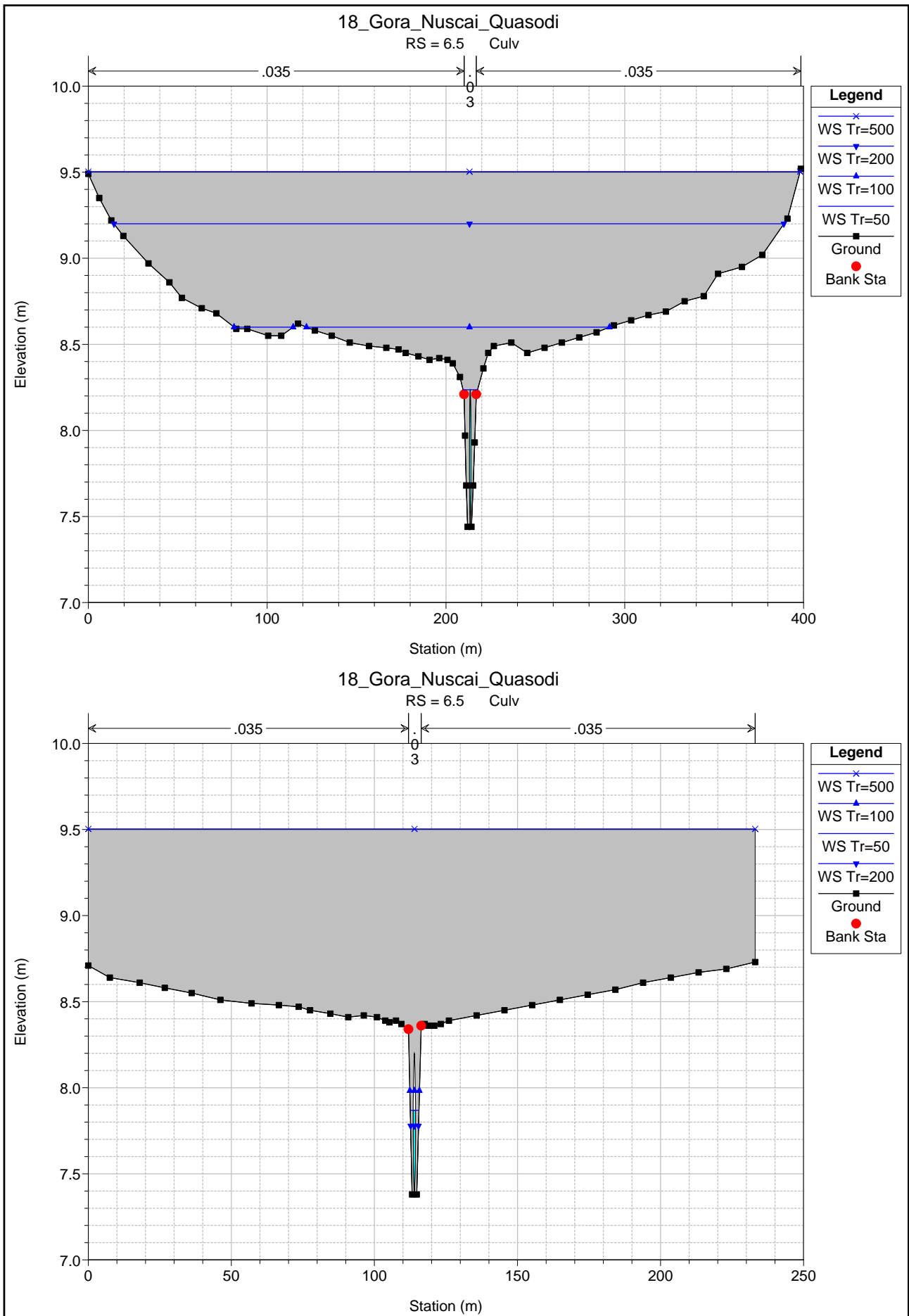
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18_Gora_Nuscai_Quasodi

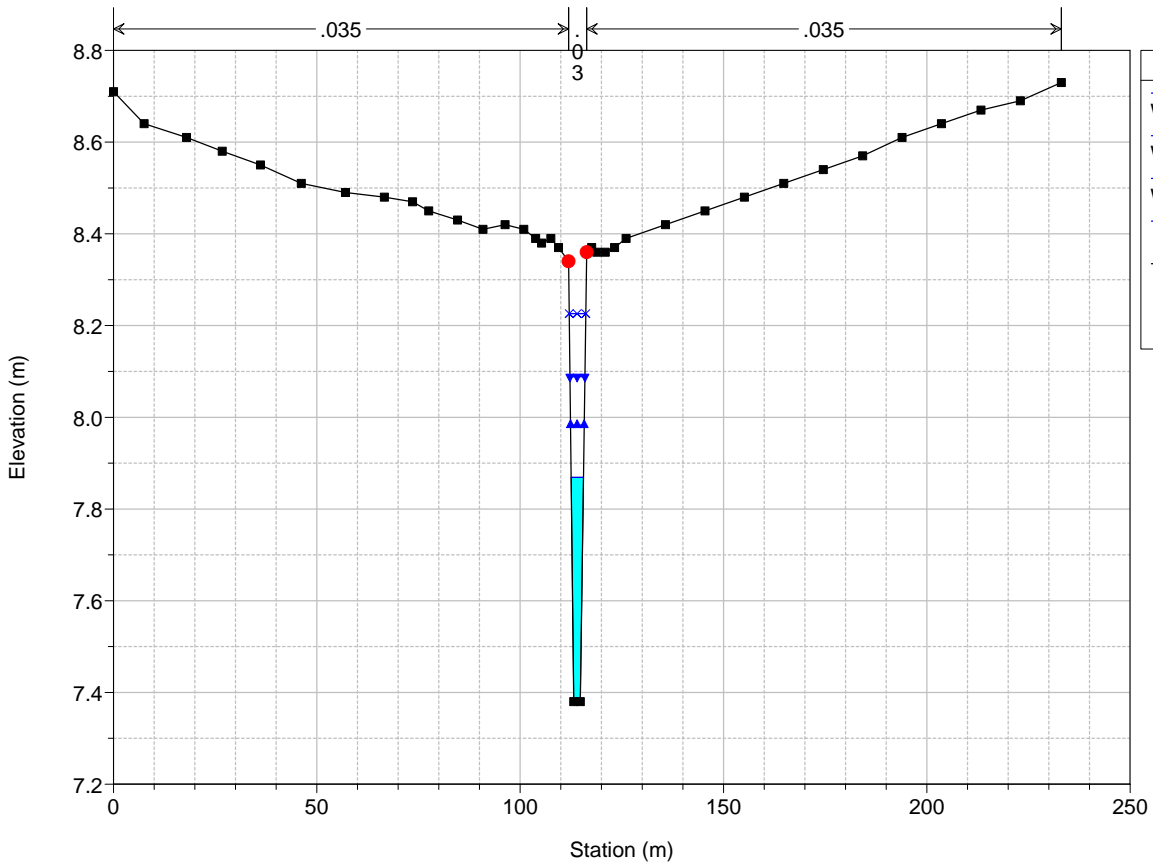
RS = 07





18_Gora_Nuscail_Quasodi

RS = 06

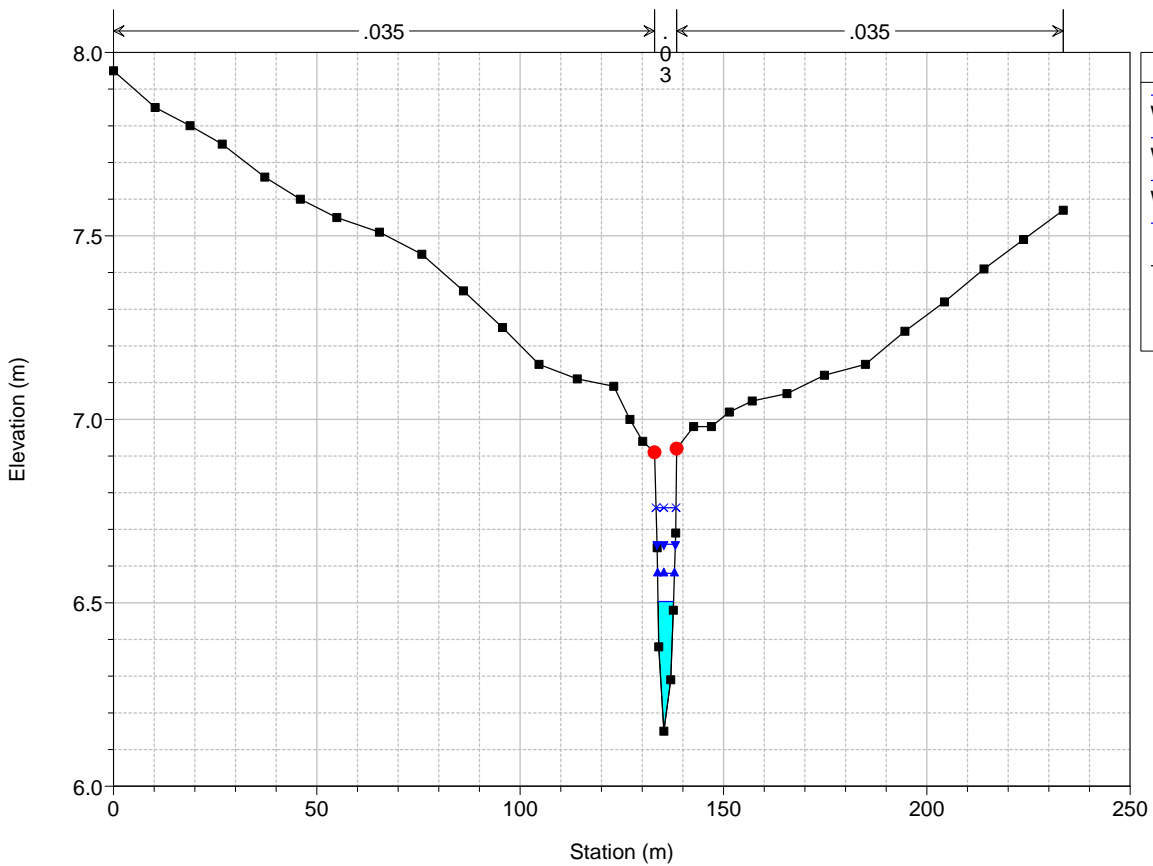


Legend

- WS Tr=500
- WS Tr=200
- WS Tr=100
- WS Tr=50
- Ground
- Bank Sta

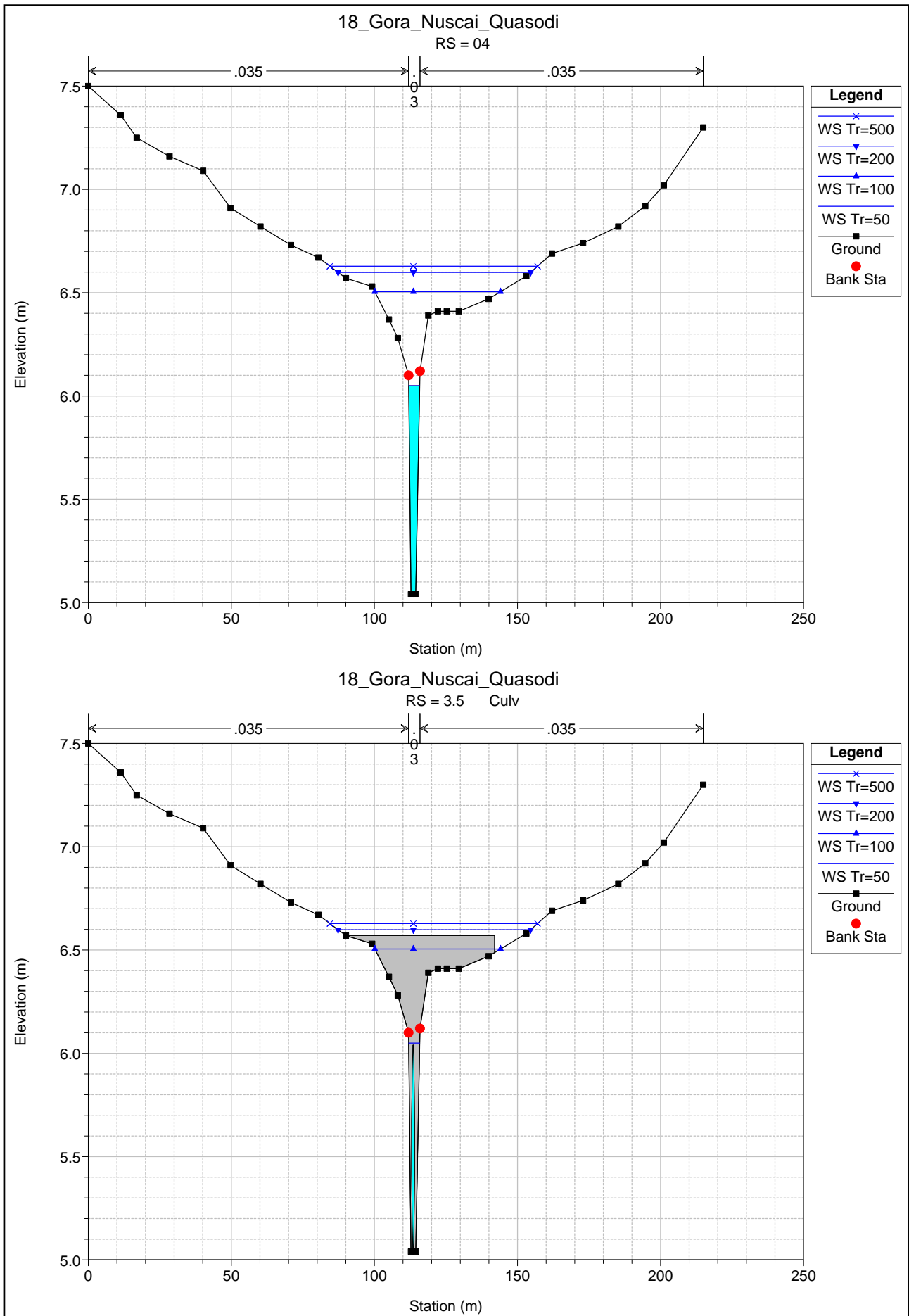
18_Gora_Nuscail_Quasodi

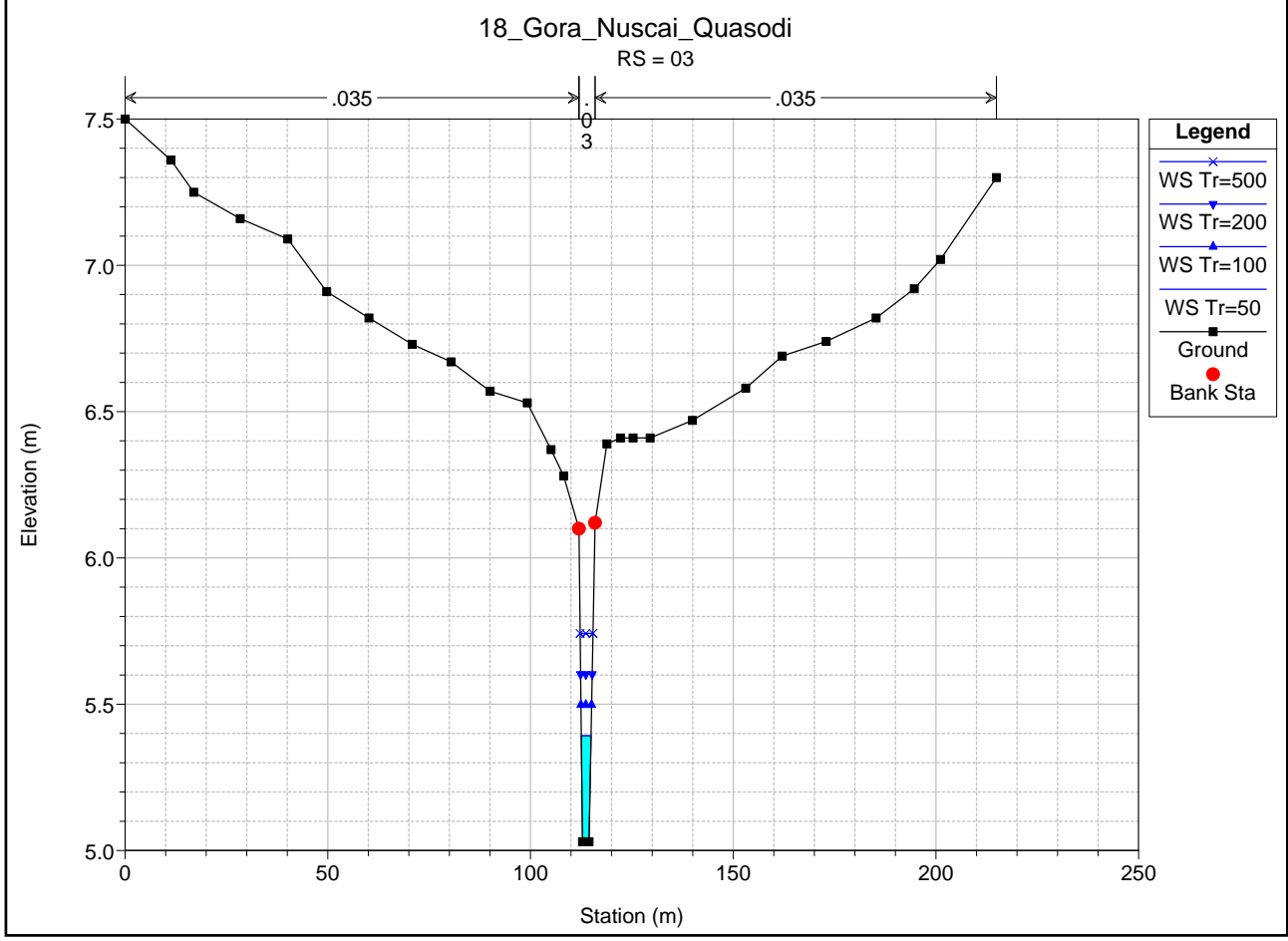
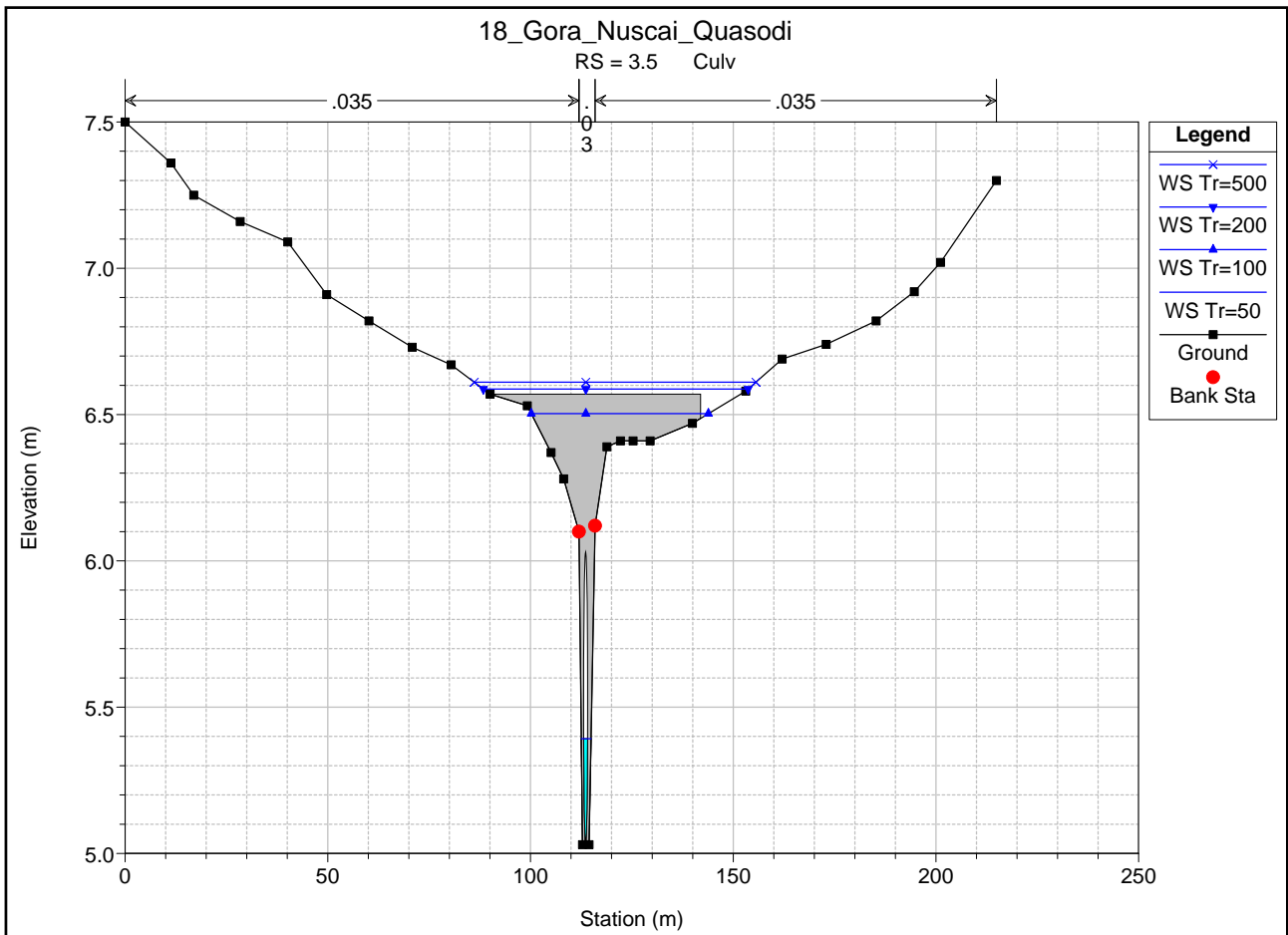
RS = 05

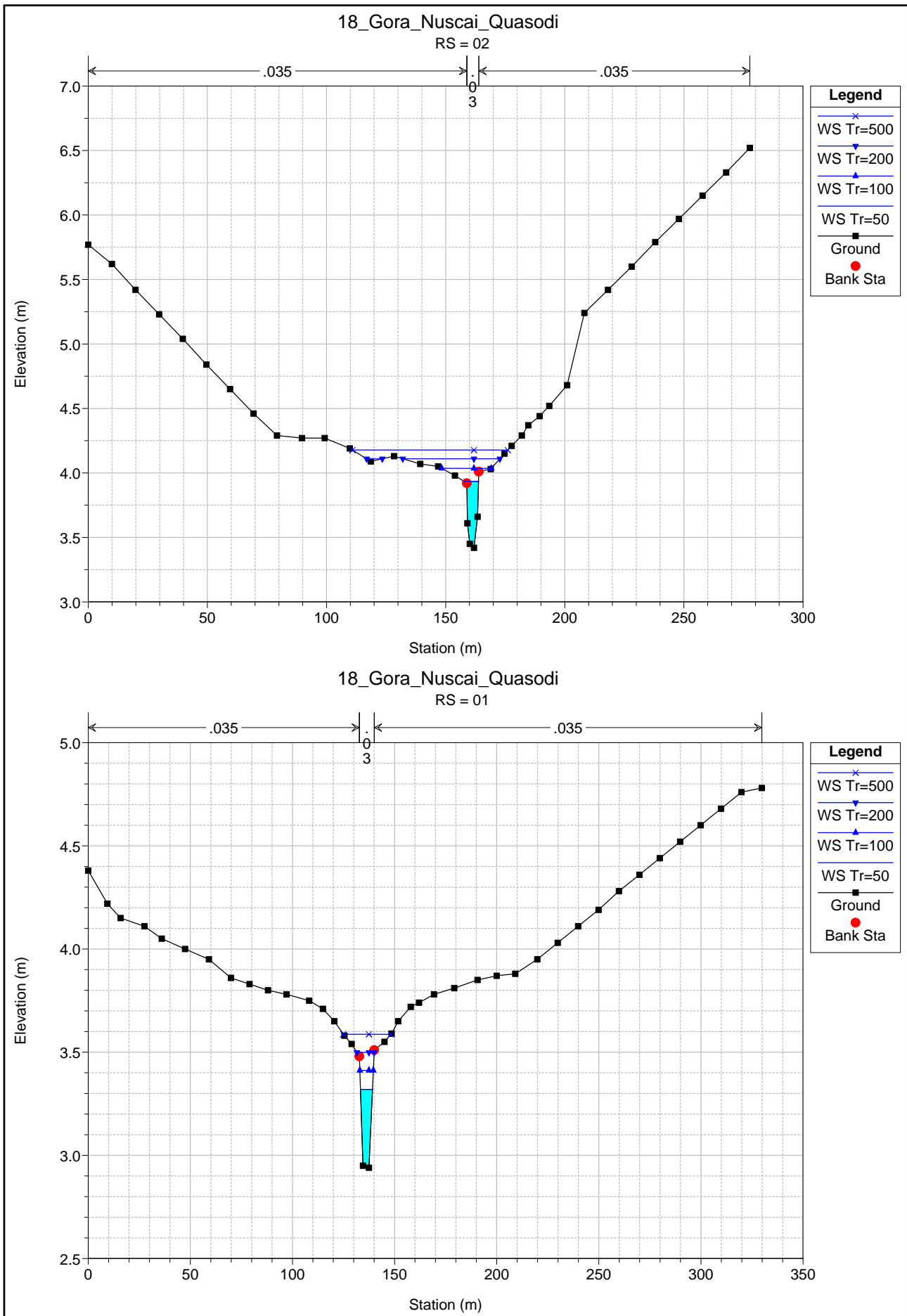


Legend

- WS Tr=500
- WS Tr=200
- WS Tr=100
- WS Tr=50
- Ground
- Bank Sta

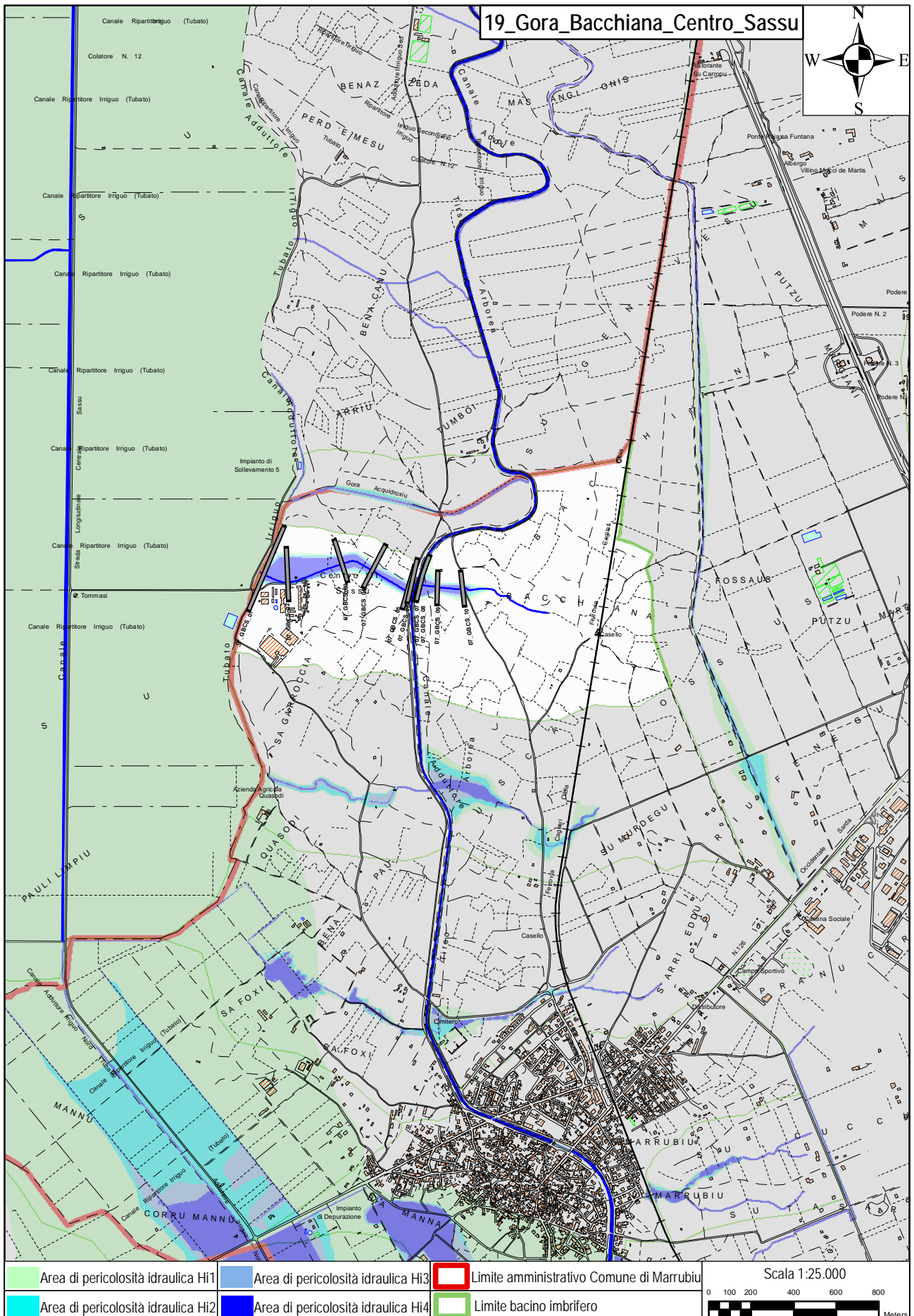






12. Gora Bacchiana - Centro Sassu

Inquadramento



Principali grandezze morfometriche

GORA BACCHIANA – CENTRO SASSU – sub-bacino n. 19			
Superficie del bacino	S	1,42	[km ²]
Altitudine massima	H_{max}	17,4	[m slm]
Altitudine minima	H_{min}	2,6	[m slm]
Altitudine media	H_{med}	9,4	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	14,8	[m]
Pendenza media del bacino	p_m	0,9	[%]
Lunghezza dell'asta principale	L	1,44	[km]
Pendenza dell'asta principale	i	1,0	[%]
Quota della sezione di chiusura	H_{min}	2,6	[m slm]
Curve Number	CN	71,03	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	2,83	[m/s]
Ventura	t_c	2,11	[m/s]
Giandotti	t_c	5,83	[m/s]
Pasini	t_c	1,69	[m/s]
VAPI	t_c	2,69	[m/s]
Viparelli	t_c	0,40	[m/s]

Portate di massima piena

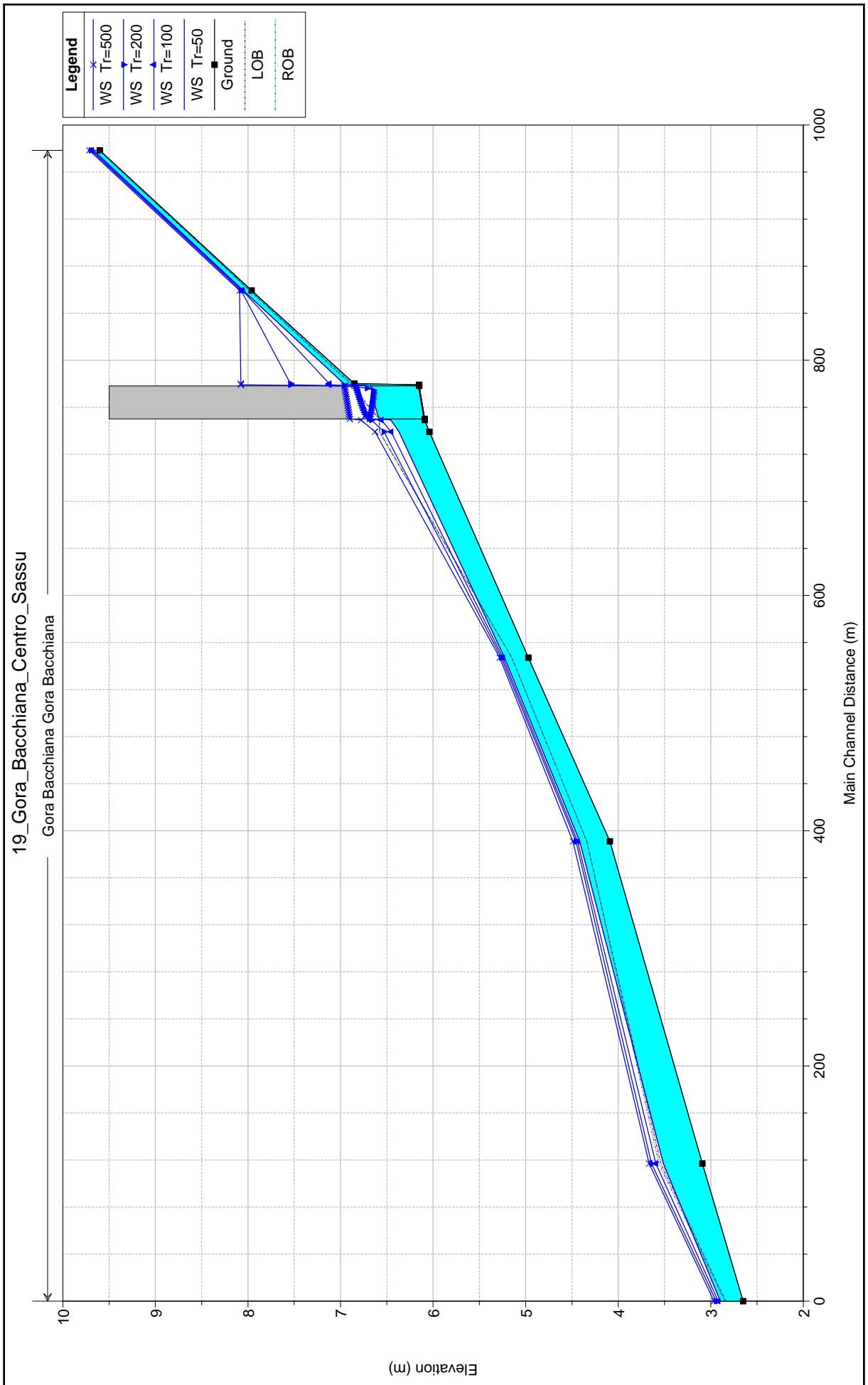
Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 10)	0,60	0,91	1,28	1,87	[m ³ /s]
TCEV (sez. 05)	1,09	1,62	2,25	3,24	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

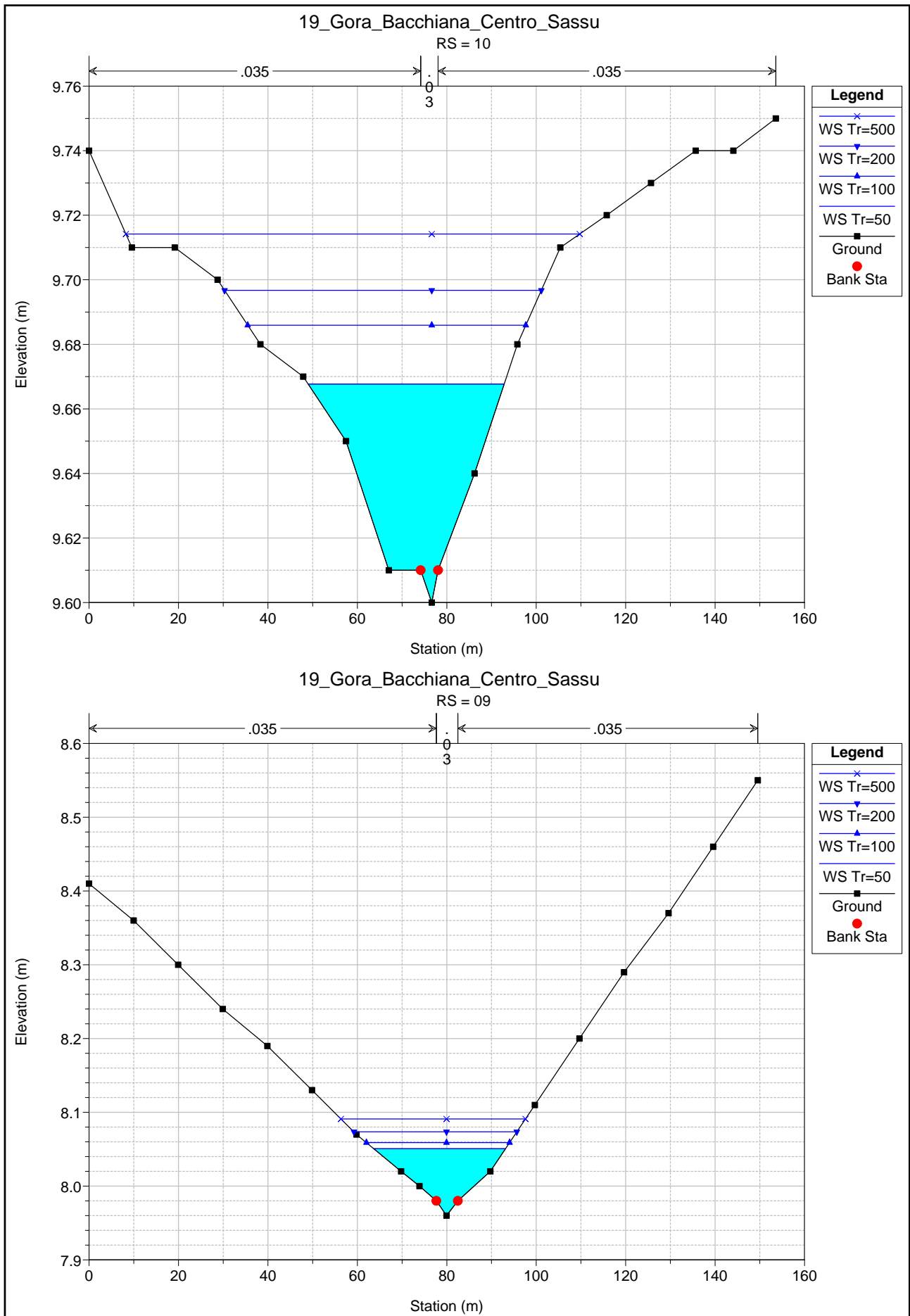
HEC-RAS Plan: 1 River: Gora Bacchiana Reach: Gora Bacchiana

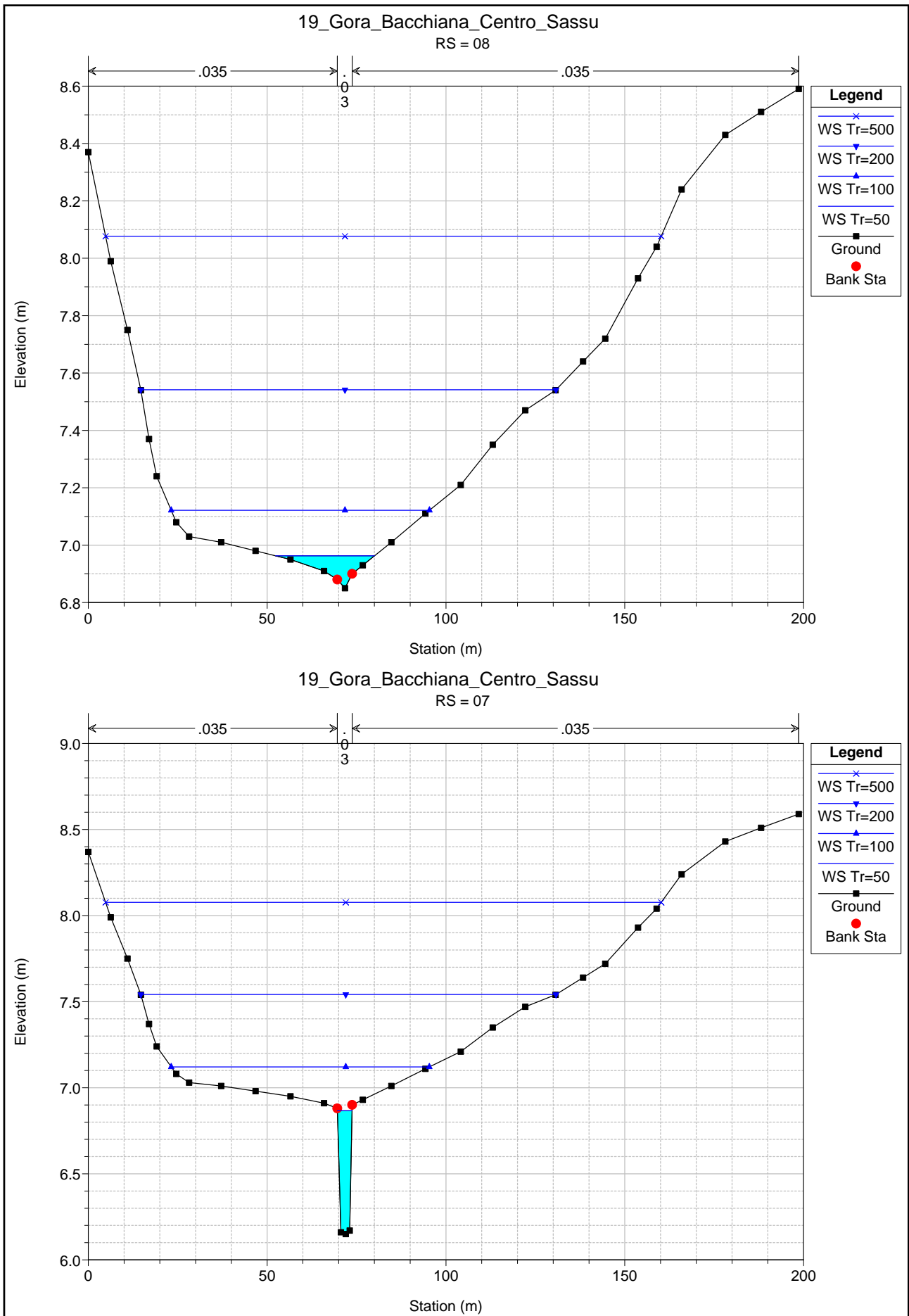
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch EI (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Gora Bacchiana	10	Tr=50	119.22	0.60	9.60	9.67	0.63	1.53	0.75
Gora Bacchiana	10	Tr=100	119.22	0.91	9.60	9.69	0.63	2.50	0.66
Gora Bacchiana	10	Tr=200	119.22	1.28	9.60	9.70	0.70	3.22	0.67
Gora Bacchiana	10	Tr=500	119.22	1.87	9.60	9.71	0.78	4.67	0.69
Gora Bacchiana	09	Tr=50	79.10	0.60	7.96	8.05	0.70	1.30	0.83
Gora Bacchiana	09	Tr=100	79.10	0.91	7.96	8.06	0.90	1.55	1.00
Gora Bacchiana	09	Tr=200	79.10	1.28	7.96	8.07	0.98	2.05	0.97
Gora Bacchiana	09	Tr=500	79.10	1.87	7.96	8.09	1.09	2.73	0.98
Gora Bacchiana	08	Tr=50	1.00	0.60	6.85	6.96	0.83	1.17	1.01
Gora Bacchiana	08	Tr=100	1.00	0.91	6.85	7.12	0.15	10.01	0.08
Gora Bacchiana	08	Tr=200	1.00	1.28	6.85	7.54	0.04	49.64	0.01
Gora Bacchiana	08	Tr=500	1.00	1.87	6.85	8.08	0.02	123.38	0.01
Gora Bacchiana	07	Tr=50	30.00	0.60	6.15	6.87	0.26	2.32	0.11
Gora Bacchiana	07	Tr=100	30.00	0.91	6.15	7.12	0.16	12.32	0.09
Gora Bacchiana	07	Tr=200	30.00	1.28	6.15	7.54	0.05	51.97	0.01
Gora Bacchiana	07	Tr=500	30.00	1.87	6.15	8.08	0.03	125.71	0.01
Gora Bacchiana	6.5		Culvert						
Gora Bacchiana	06	Tr=50	10.00	0.60	6.09	6.46	0.56	1.07	0.31
Gora Bacchiana	06	Tr=100	10.00	0.91	6.09	6.56	0.64	1.43	0.32
Gora Bacchiana	06	Tr=200	10.00	1.28	6.09	6.67	0.54	4.64	0.56
Gora Bacchiana	06	Tr=500	10.00	1.87	6.09	6.78	0.32	14.60	0.19
Gora Bacchiana	05	Tr=50	192.04	1.09	6.04	6.37	1.13	0.96	0.66
Gora Bacchiana	05	Tr=100	192.04	1.62	6.04	6.45	1.30	1.24	0.69
Gora Bacchiana	05	Tr=200	192.04	2.25	6.04	6.53	1.49	1.51	0.73
Gora Bacchiana	05	Tr=500	192.04	3.24	6.04	6.63	1.65	2.77	2.00
Gora Bacchiana	04	Tr=50	156.09	1.09	4.97	5.23	0.88	2.43	1.07
Gora Bacchiana	04	Tr=100	156.09	1.62	4.97	5.25	0.99	3.48	1.00
Gora Bacchiana	04	Tr=200	156.09	2.25	4.97	5.26	1.05	4.52	0.90
Gora Bacchiana	04	Tr=500	156.09	3.24	4.97	5.28	1.20	5.66	0.90
Gora Bacchiana	03	Tr=50	274.00	1.09	4.09	4.42	0.60	3.92	0.57
Gora Bacchiana	03	Tr=100	274.00	1.62	4.09	4.44	0.66	5.33	0.51
Gora Bacchiana	03	Tr=200	274.00	2.25	4.09	4.46	0.75	6.45	0.52
Gora Bacchiana	03	Tr=500	274.00	3.24	4.09	4.49	0.77	8.85	0.45
Gora Bacchiana	02	Tr=50	117.00	1.09	3.09	3.51	1.19	1.01	1.04
Gora Bacchiana	02	Tr=100	117.00	1.62	3.09	3.59	1.17	2.33	1.29
Gora Bacchiana	02	Tr=200	117.00	2.25	3.09	3.64	1.09	4.89	1.05
Gora Bacchiana	02	Tr=500	117.00	3.24	3.09	3.67	1.21	6.91	0.99
Gora Bacchiana	01	Tr=50		1.09	2.65	2.90	0.81	2.23	1.06
Gora Bacchiana	01	Tr=100		1.62	2.65	2.92	0.87	3.52	0.96
Gora Bacchiana	01	Tr=200		2.25	2.65	2.94	0.93	5.04	0.91
Gora Bacchiana	01	Tr=500		3.24	2.65	2.97	0.99	7.21	0.83

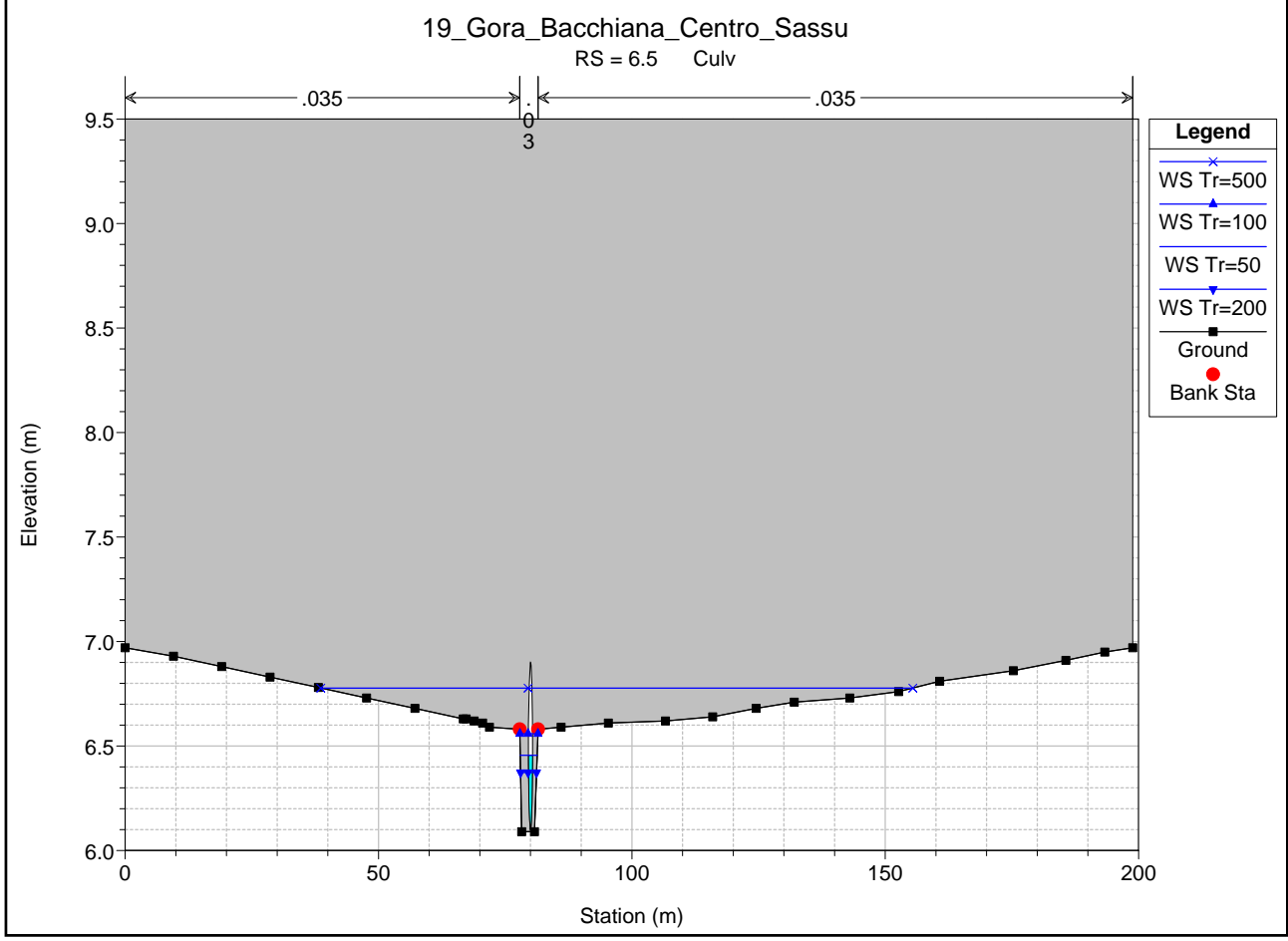
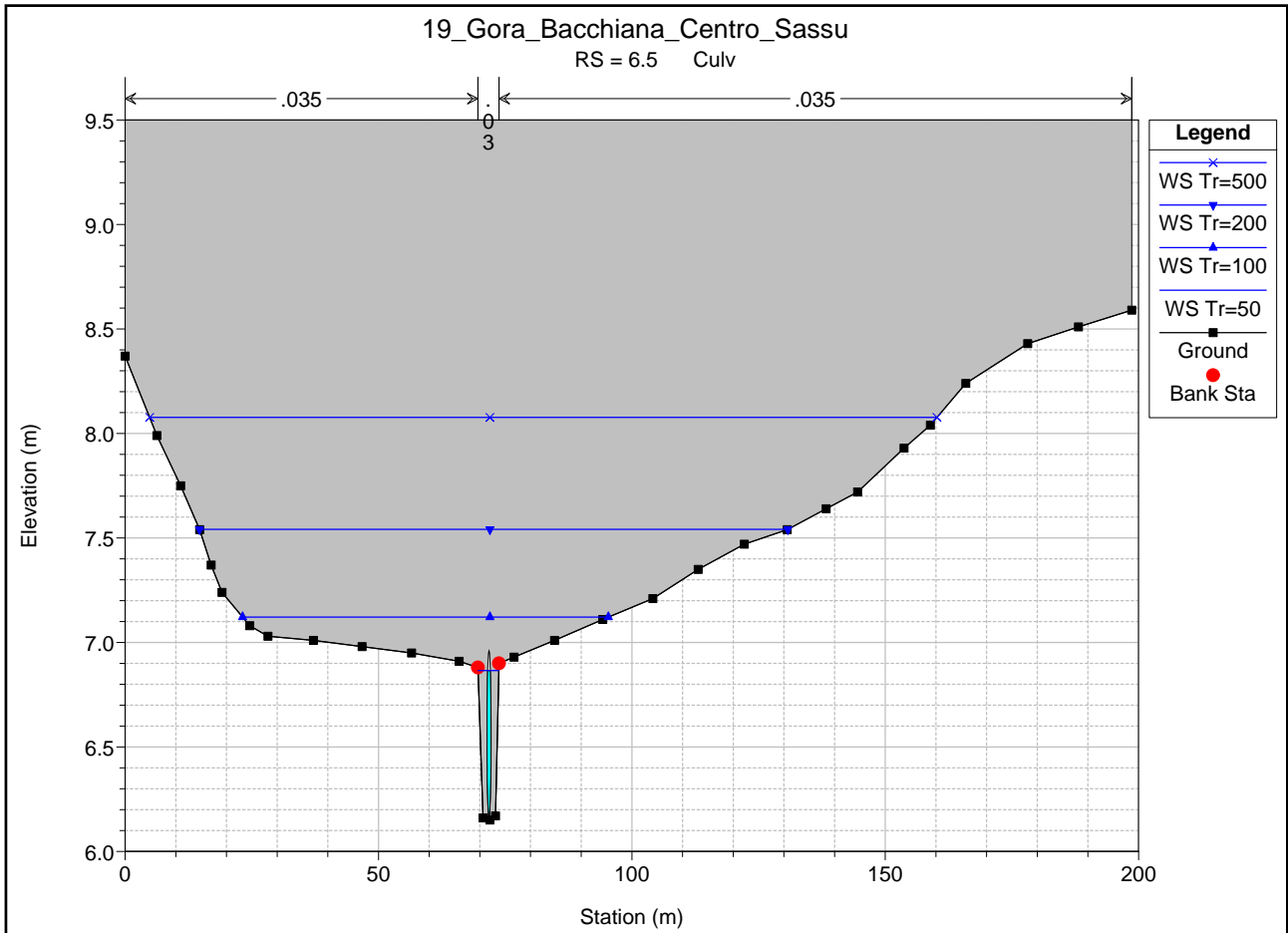
Profilo



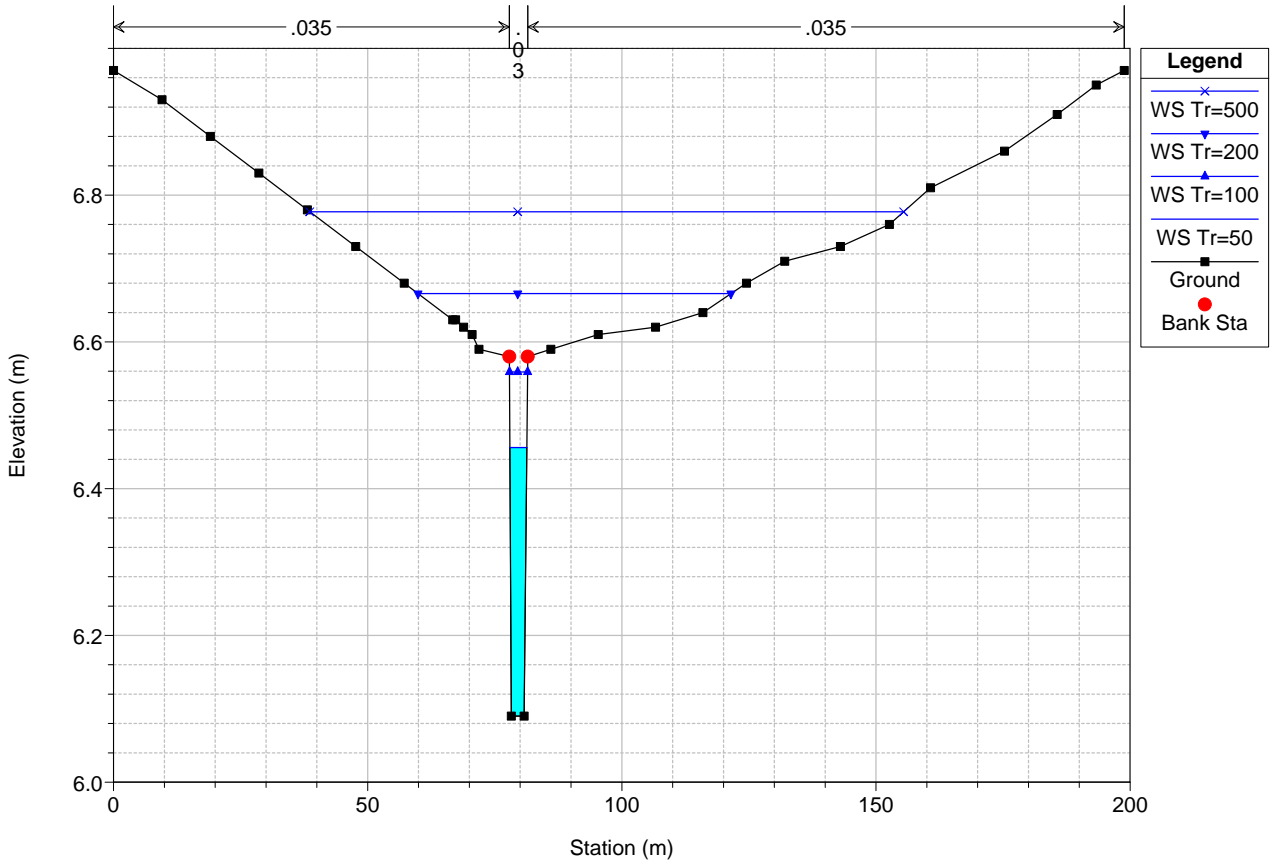
Sezioni fluviali relative ai tempi di ritorno considerati



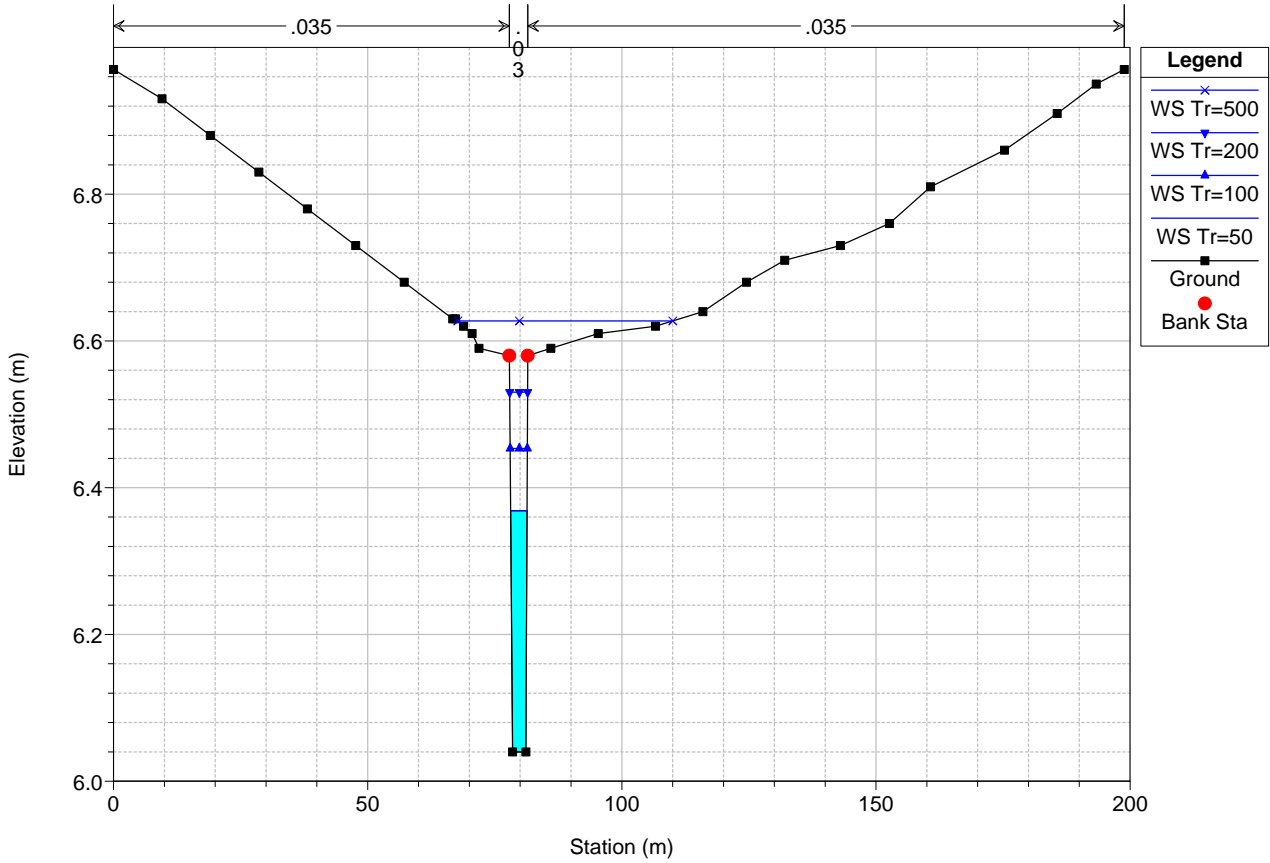




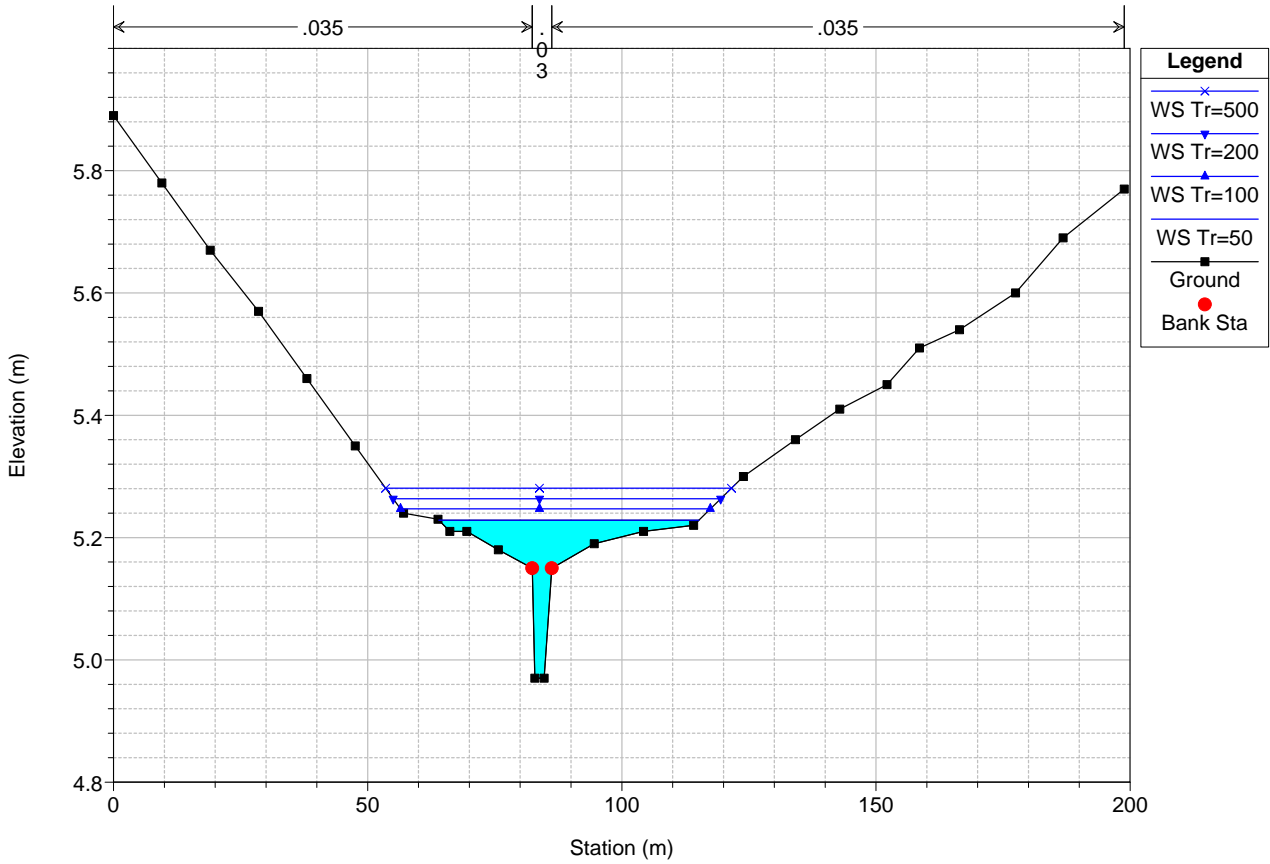
19_Gora_Bacchiana_Centro_Sassu
RS = 06



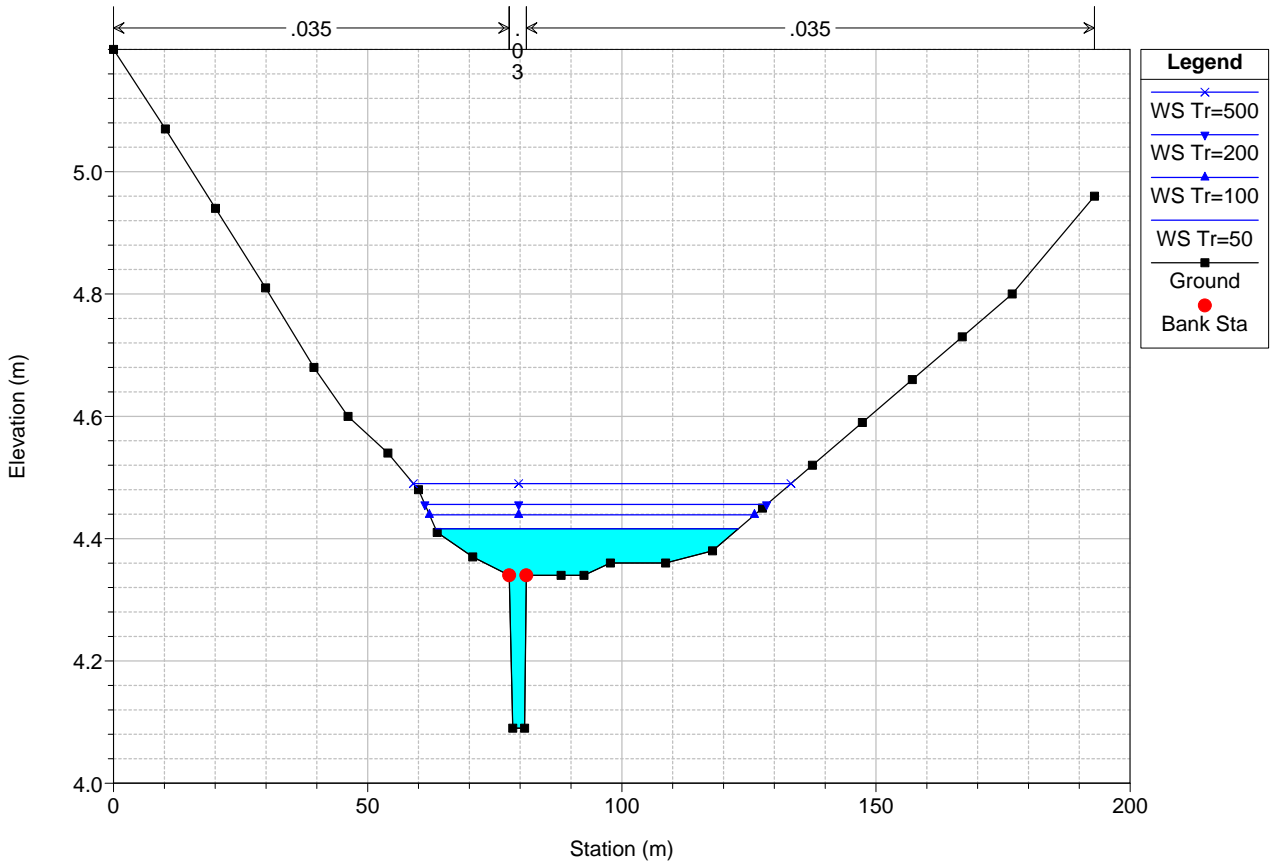
19_Gora_Bacchiana_Centro_Sassu
RS = 05



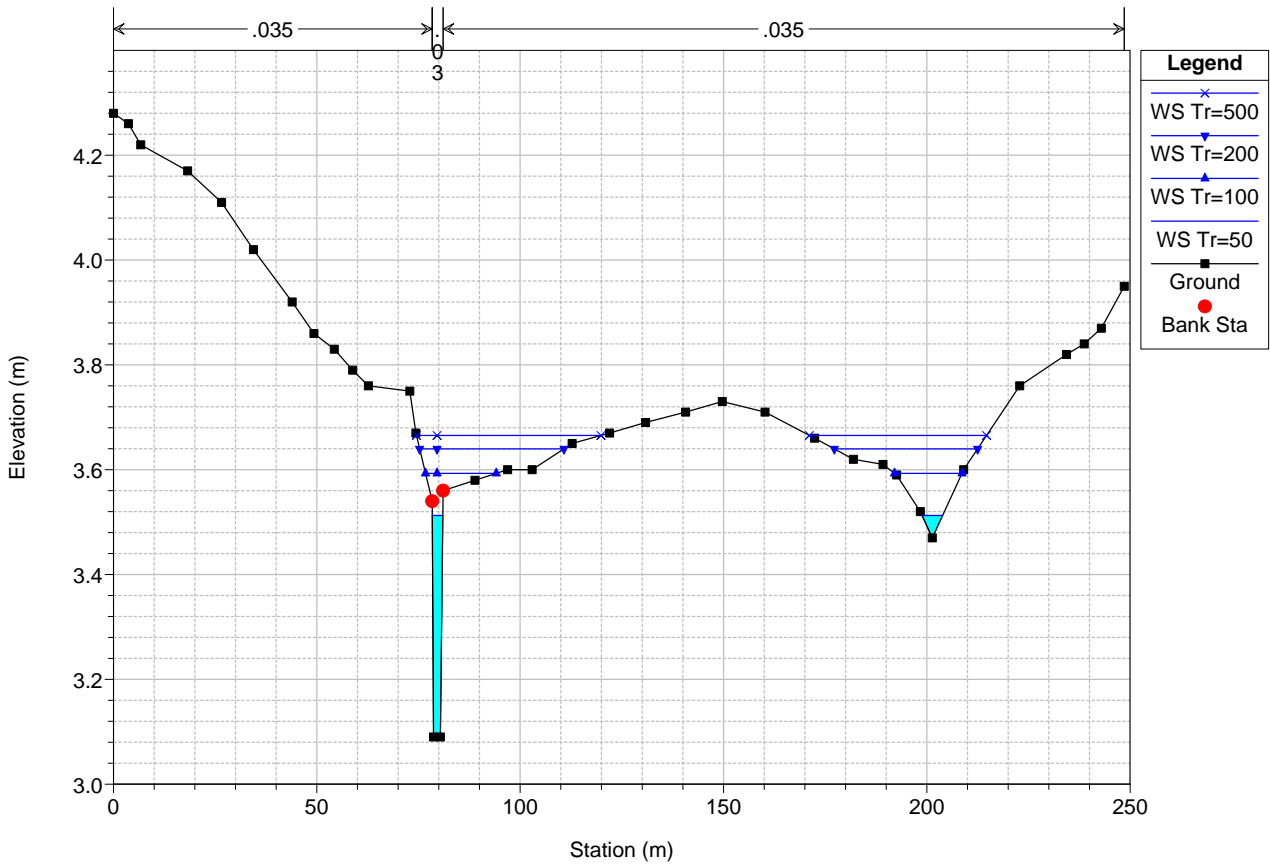
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RS = 04



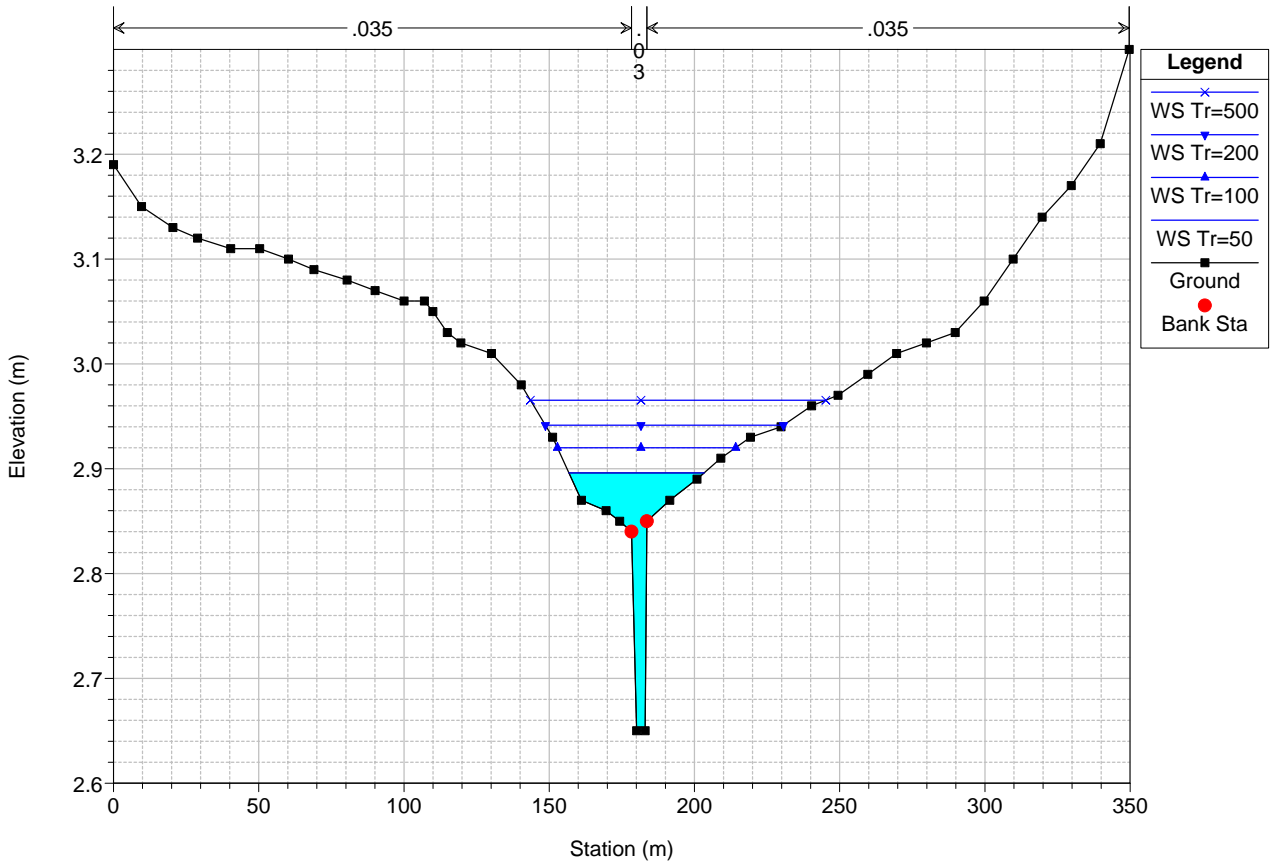
19_Gora_Bacchiana_Centro_Sassu
RS = 03



19_Gora_Bacchiana_Centro_Sassu
RS = 02

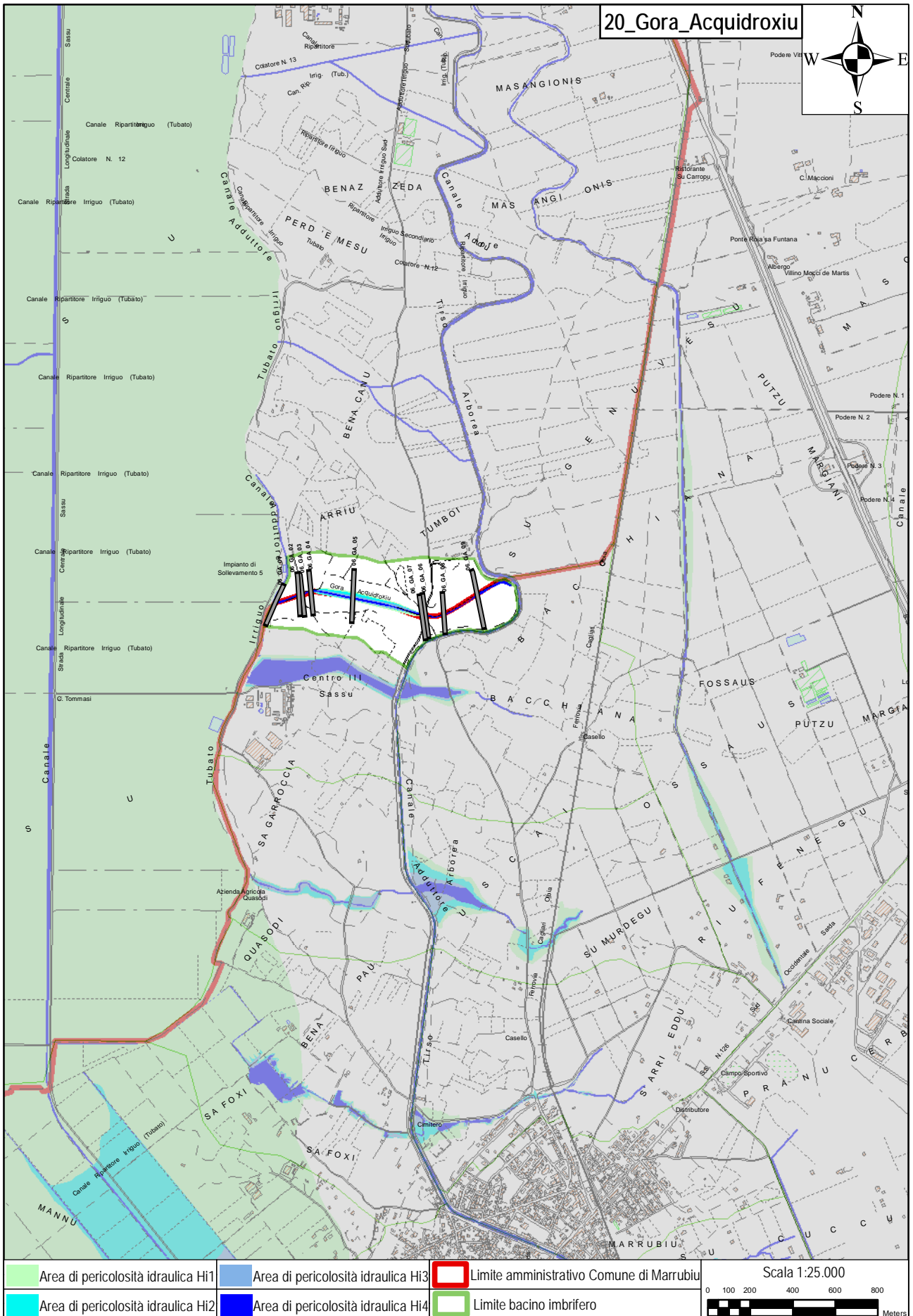


19_Gora_Bacchiana_Centro_Sassu
RS = 01



13. Gora Acquidroxu

Inquadramento



Principali grandezze morfometriche

GORA ACQUIDROXIU – sub-bacino n. 21			
Superficie del bacino	S	0,41	[km ²]
Altitudine massima	H_{max}	10,9	[m slm]
Altitudine minima	H_{min}	3,0	[m slm]
Altitudine media	H_{med}	6,1	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	7,8	[m]
Pendenza media del bacino	p_m	1,6	[%]
Lunghezza dell'asta principale	L	1,20	[km]
Pendenza dell'asta principale	i	1,5	[%]
Quota della sezione di chiusura	H_{min}	3,2	[m slm]
Curve Number	CN	68,42	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	1,76	[m/s]
Ventura	t_c	0,67	[m/s]
Giandotti	t_c	3,10	[m/s]
Pasini	t_c	0,70	[m/s]
VAPI	t_c	0,99	[m/s]
Viparelli	t_c	0,33	[m/s]

Portate di massima piena

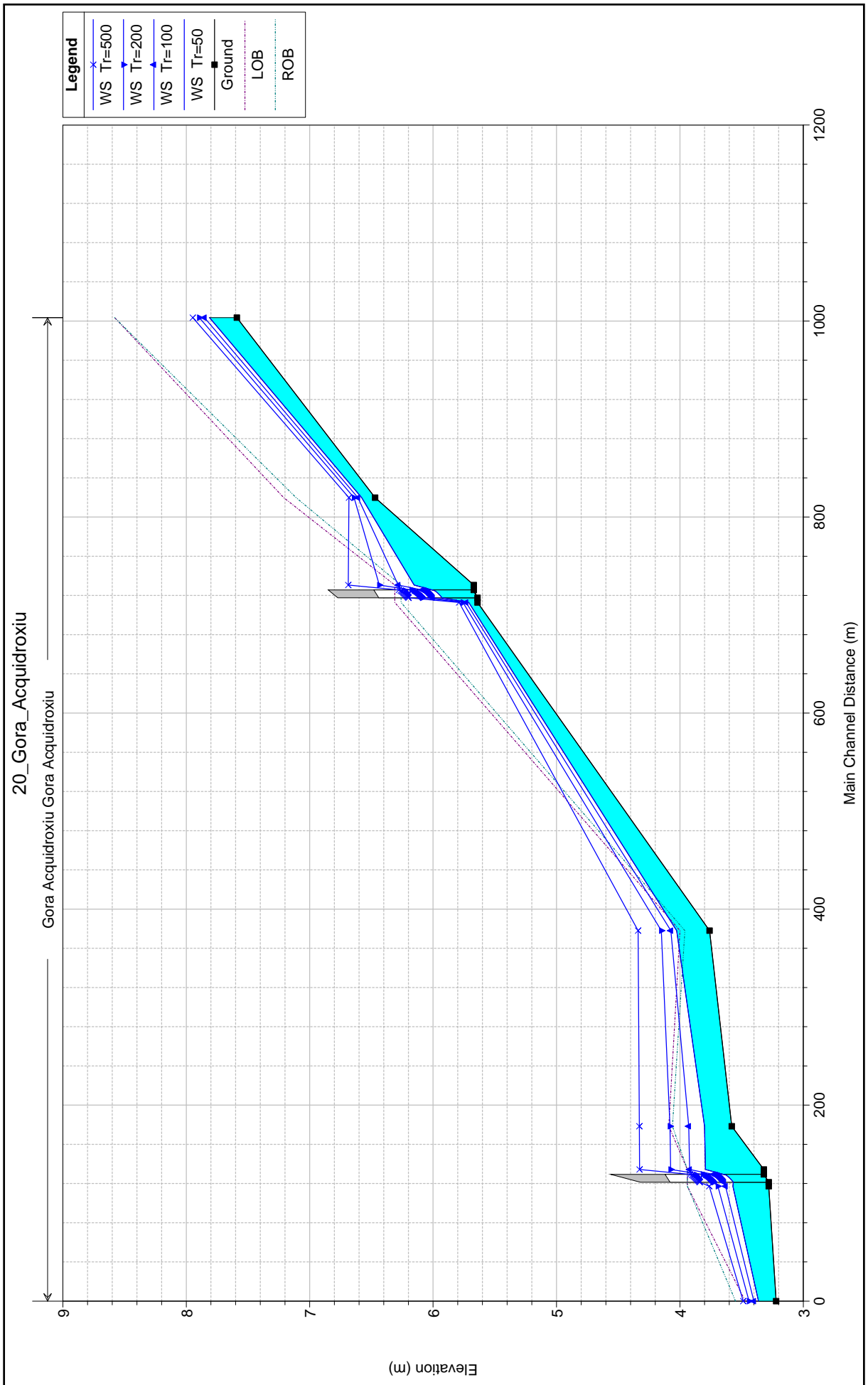
Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 09)	0,30	0,46	0,66	0,96	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

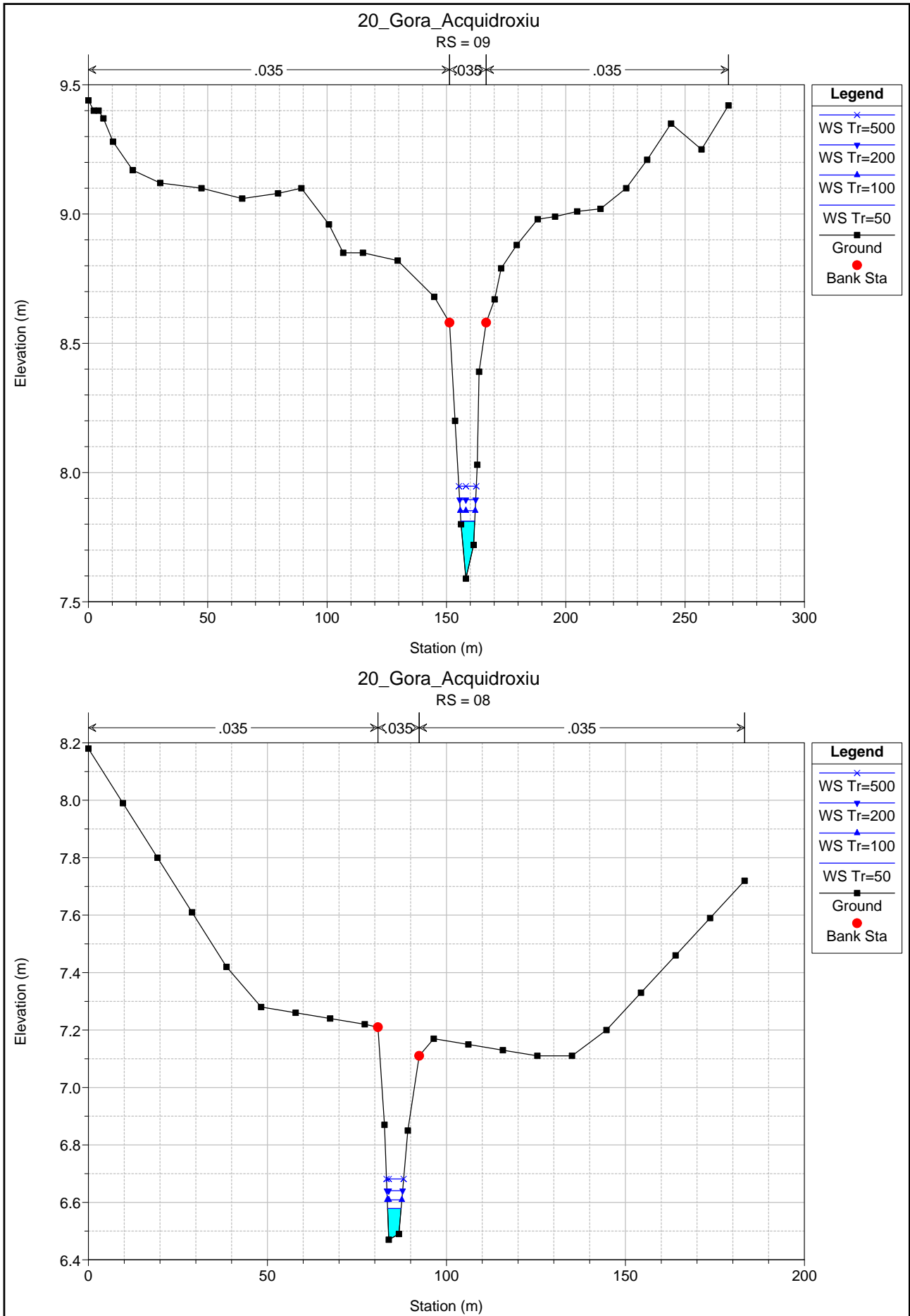
HEC-RAS Plan: 1 River: Gora Acquidroxu Reach: Gora Acquidroxu

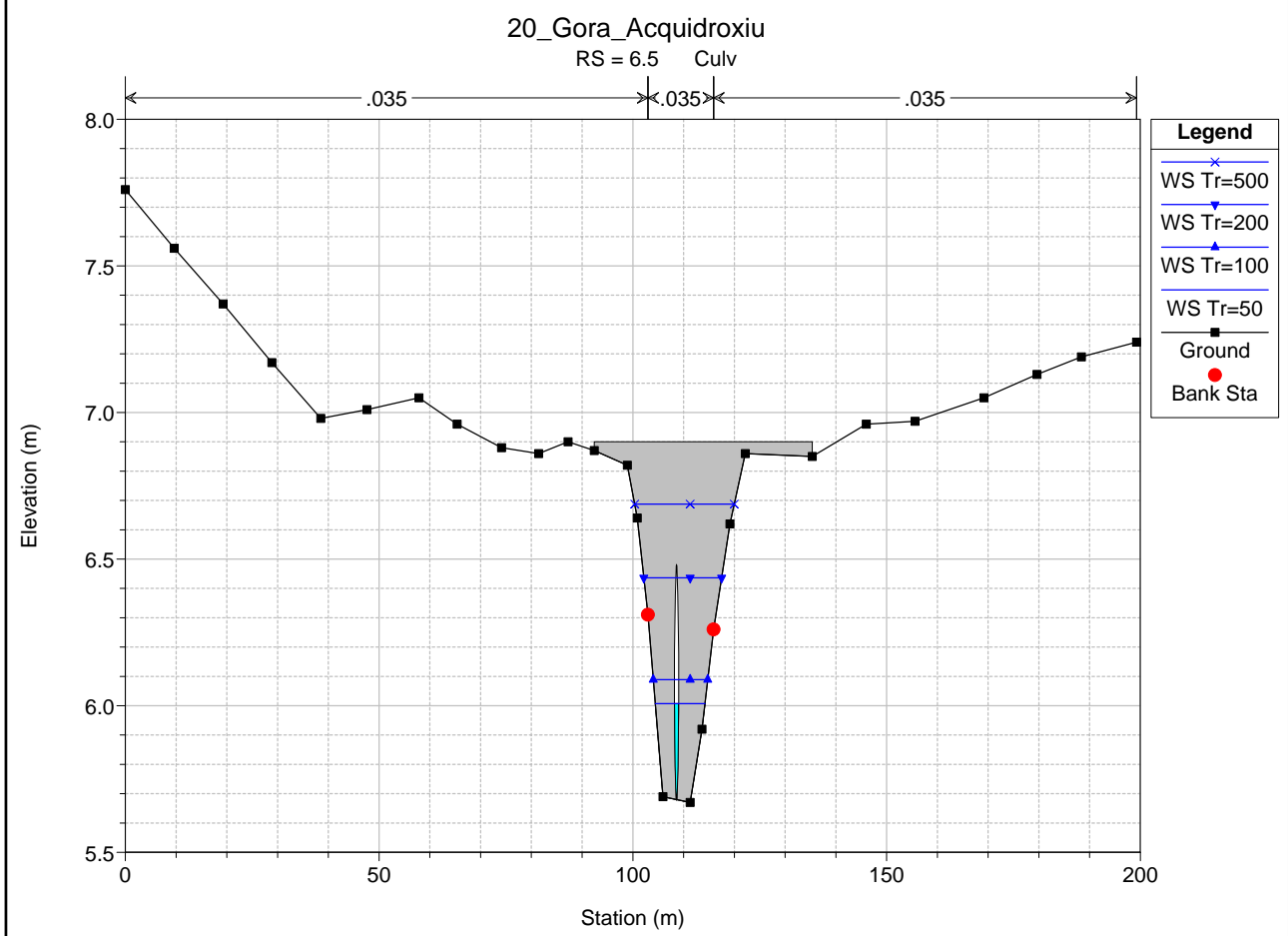
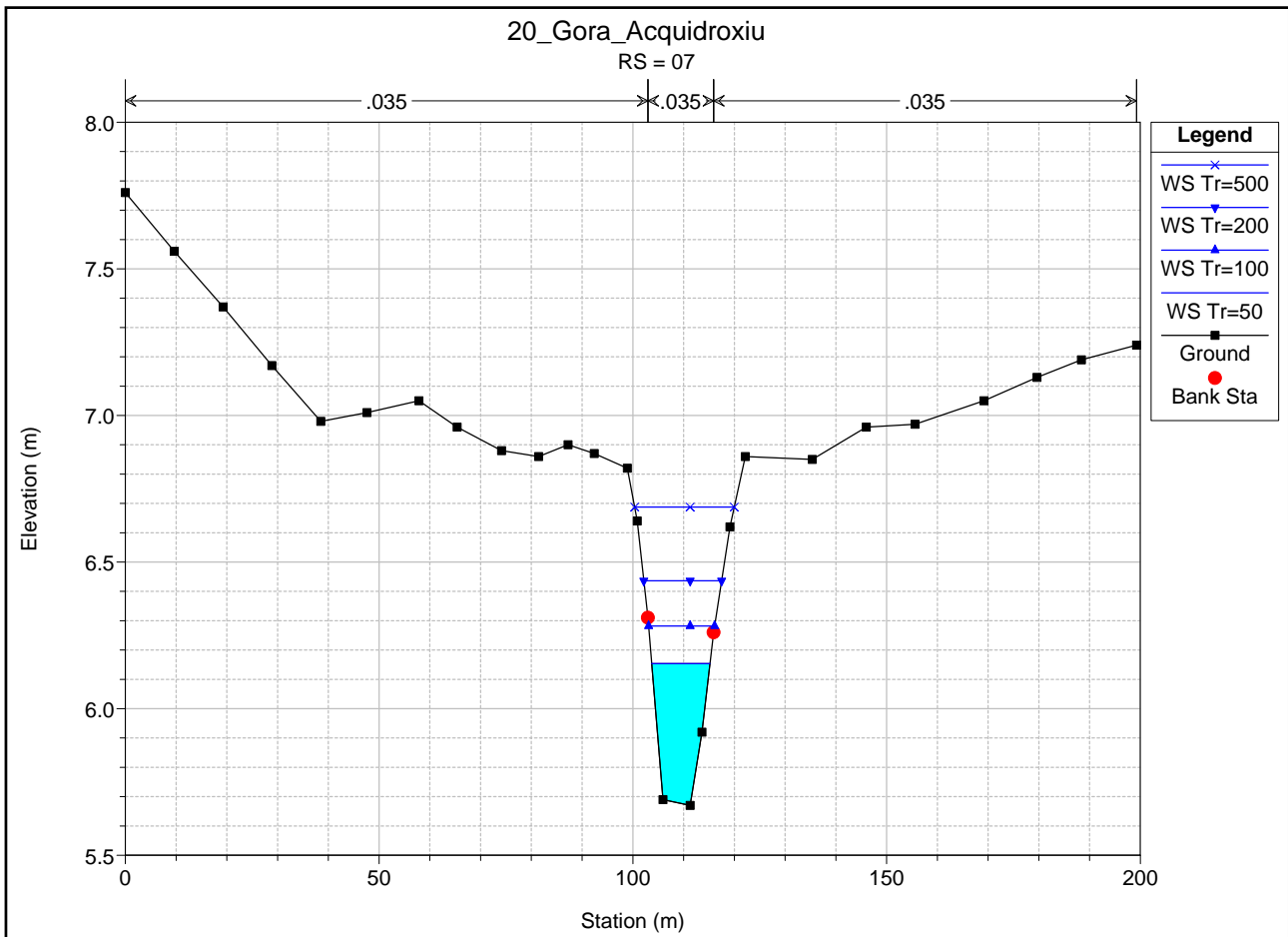
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
Gora Acquidroxu	09	Tr=50	183.73	0.30	7.59	7.81	0.39	0.76	0.34
Gora Acquidroxu	09	Tr=100	183.73	0.46	7.59	7.85	0.46	1.01	0.36
Gora Acquidroxu	09	Tr=200	183.73	0.66	7.59	7.89	0.51	1.28	0.38
Gora Acquidroxu	09	Tr=500	183.73	0.96	7.59	7.95	0.58	1.65	0.39
Gora Acquidroxu	08	Tr=50	89.17	0.30	6.47	6.58	0.93	0.32	1.01
Gora Acquidroxu	08	Tr=100	89.17	0.46	6.47	6.61	1.04	0.44	1.01
Gora Acquidroxu	08	Tr=200	89.17	0.66	6.47	6.64	1.14	0.58	1.01
Gora Acquidroxu	08	Tr=500	89.17	0.96	6.47	6.68	1.26	0.76	1.00
Gora Acquidroxu	07	Tr=50	17.69	0.30	5.67	6.15	0.07	4.07	0.04
Gora Acquidroxu	07	Tr=100	17.69	0.46	5.67	6.28	0.08	5.64	0.04
Gora Acquidroxu	07	Tr=200	17.69	0.66	5.67	6.44	0.09	7.82	0.04
Gora Acquidroxu	07	Tr=500	17.69	0.96	5.67	6.69	0.08	12.17	0.03
Gora Acquidroxu	6.5		Culvert						
Gora Acquidroxu	06	Tr=50	334.87	0.30	5.64	5.71	0.80	0.37	1.00
Gora Acquidroxu	06	Tr=100	334.87	0.46	5.64	5.73	0.92	0.50	1.00
Gora Acquidroxu	06	Tr=200	334.87	0.66	5.64	5.76	1.02	0.65	1.00
Gora Acquidroxu	06	Tr=500	334.87	0.96	5.64	5.79	1.13	0.85	1.00
Gora Acquidroxu	05	Tr=50	199.60	0.30	3.76	4.03	0.20	1.54	0.17
Gora Acquidroxu	05	Tr=100	199.60	0.46	3.76	4.07	0.24	2.08	0.19
Gora Acquidroxu	05	Tr=200	199.60	0.66	3.76	4.15	0.22	3.95	0.20
Gora Acquidroxu	05	Tr=500	199.60	0.96	3.76	4.34	0.09	19.54	0.05
Gora Acquidroxu	04	Tr=50	44.05	0.30	3.58	3.80	0.47	0.63	0.42
Gora Acquidroxu	04	Tr=100	44.05	0.46	3.58	3.93	0.33	1.40	0.24
Gora Acquidroxu	04	Tr=200	44.05	0.66	3.58	4.08	0.24	2.75	0.15
Gora Acquidroxu	04	Tr=500	44.05	0.96	3.58	4.33	0.16	7.39	0.10
Gora Acquidroxu	03	Tr=50	17.11	0.30	3.32	3.79	0.15	2.07	0.08
Gora Acquidroxu	03	Tr=100	17.11	0.46	3.32	3.92	0.16	2.88	0.08
Gora Acquidroxu	03	Tr=200	17.11	0.66	3.32	4.07	0.17	4.11	0.08
Gora Acquidroxu	03	Tr=500	17.11	0.96	3.32	4.33	0.16	7.06	0.07
Gora Acquidroxu	2.5		Culvert						
Gora Acquidroxu	02	Tr=50	117.26	0.30	3.28	3.57	0.30	0.99	0.20
Gora Acquidroxu	02	Tr=100	117.26	0.46	3.28	3.63	0.36	1.27	0.23
Gora Acquidroxu	02	Tr=200	117.26	0.66	3.28	3.69	0.42	1.57	0.24
Gora Acquidroxu	02	Tr=500	117.26	0.96	3.28	3.76	0.49	1.96	0.27
Gora Acquidroxu	01	Tr=50		0.30	3.22	3.36	0.48	0.63	0.45
Gora Acquidroxu	01	Tr=100		0.46	3.22	3.40	0.55	0.84	0.46
Gora Acquidroxu	01	Tr=200		0.66	3.22	3.44	0.61	1.08	0.48
Gora Acquidroxu	01	Tr=500		0.96	3.22	3.49	0.68	1.41	0.50

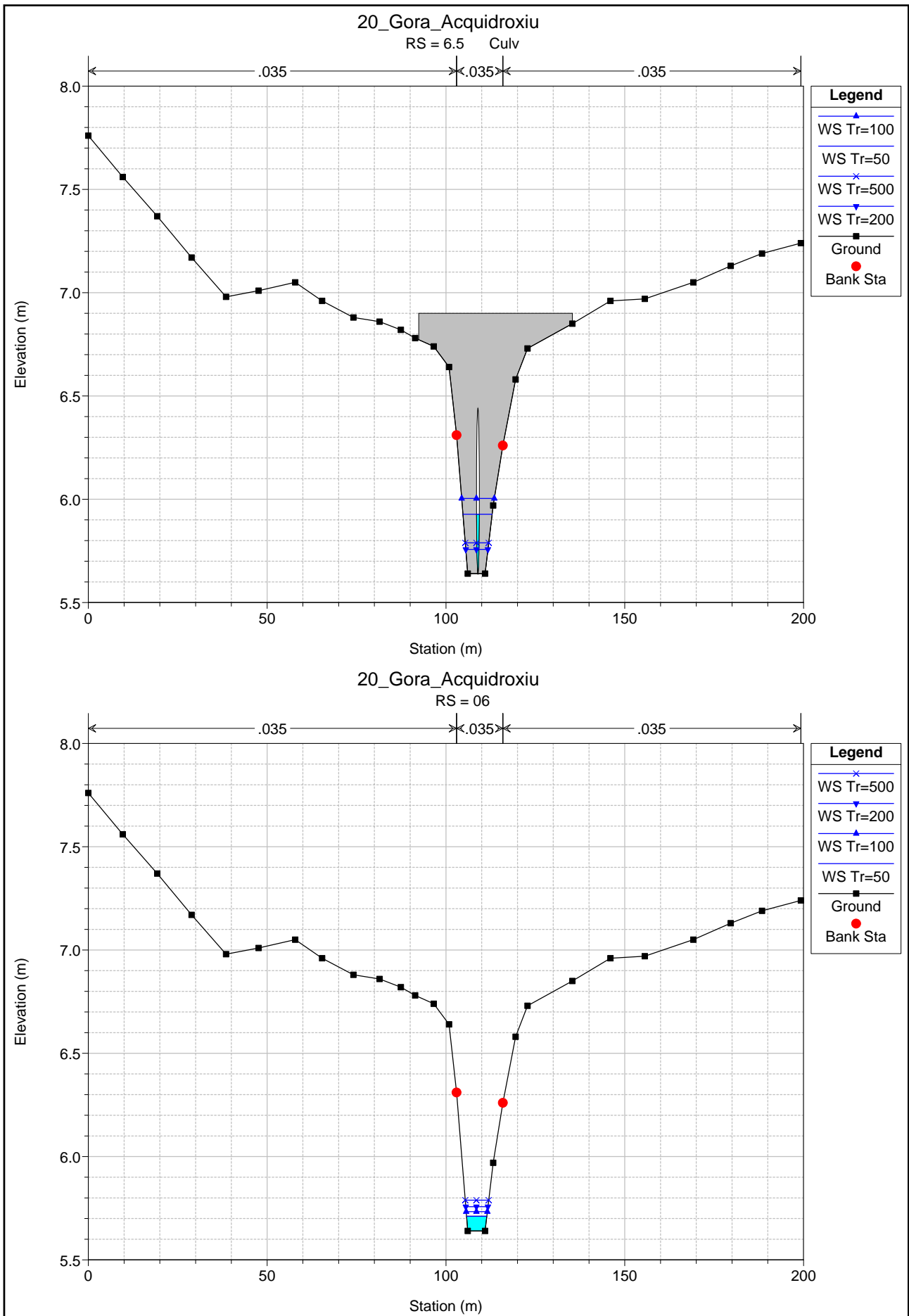
Profilo

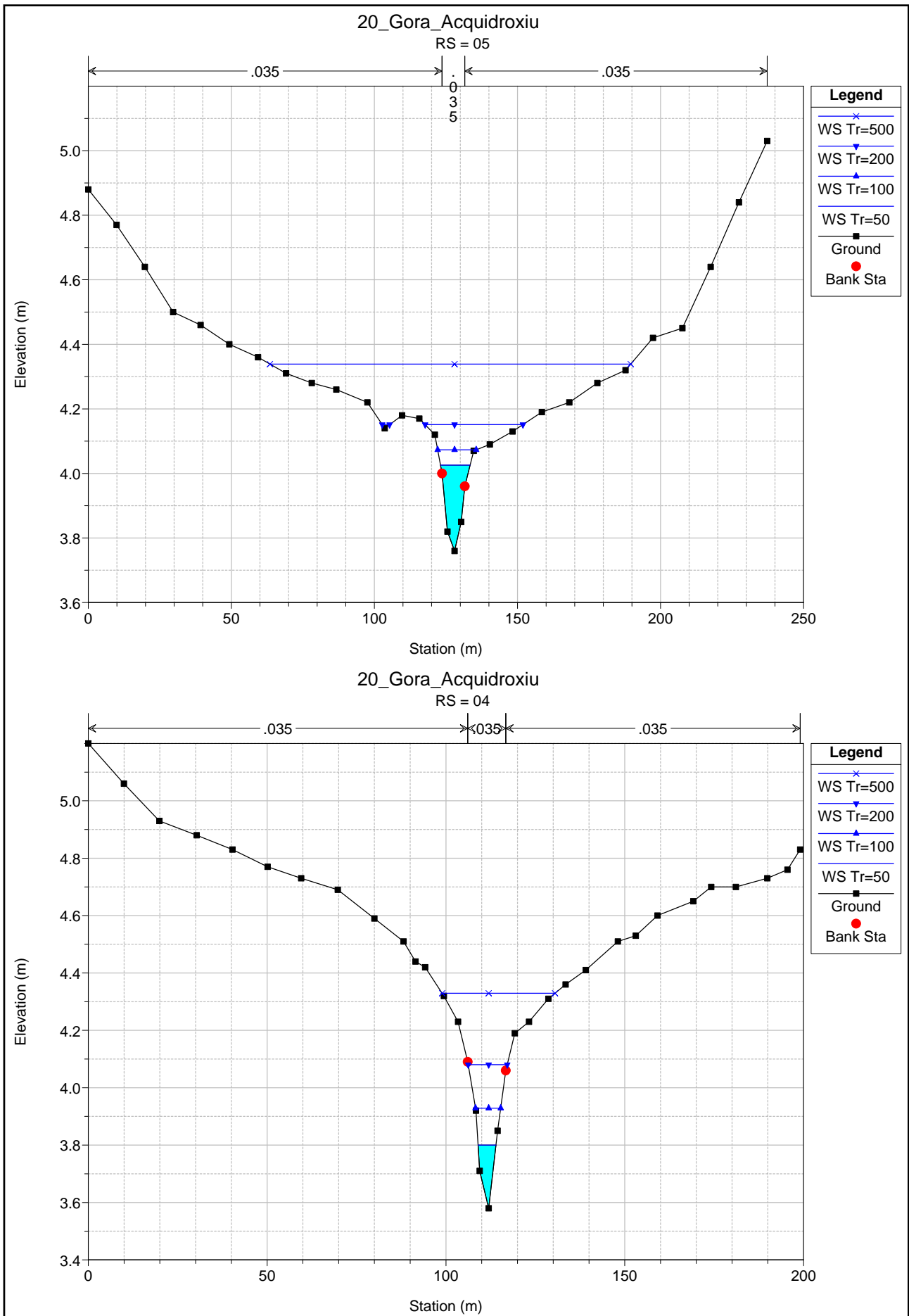


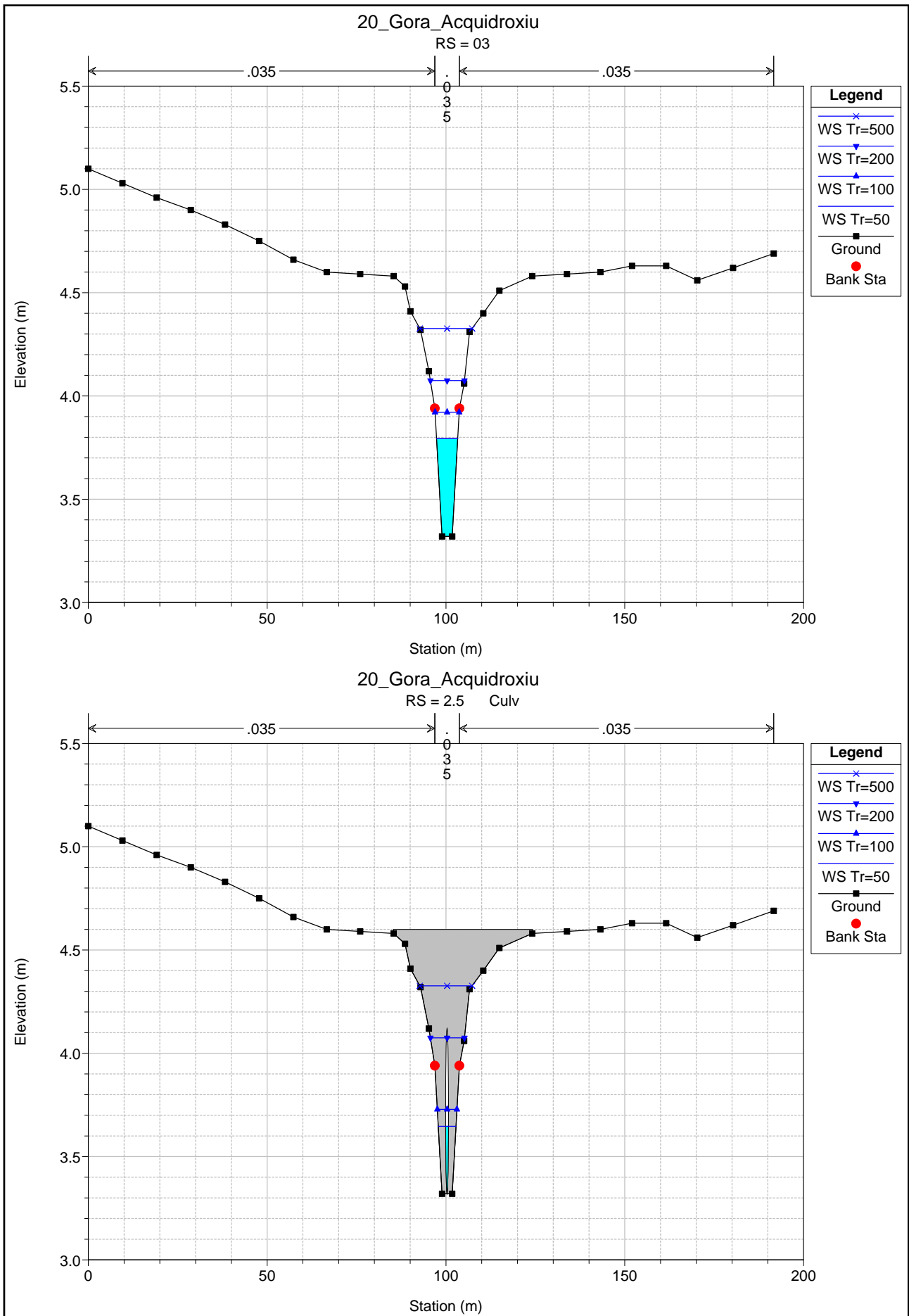
Sezioni fluviali relative ai tempi di ritorno considerati

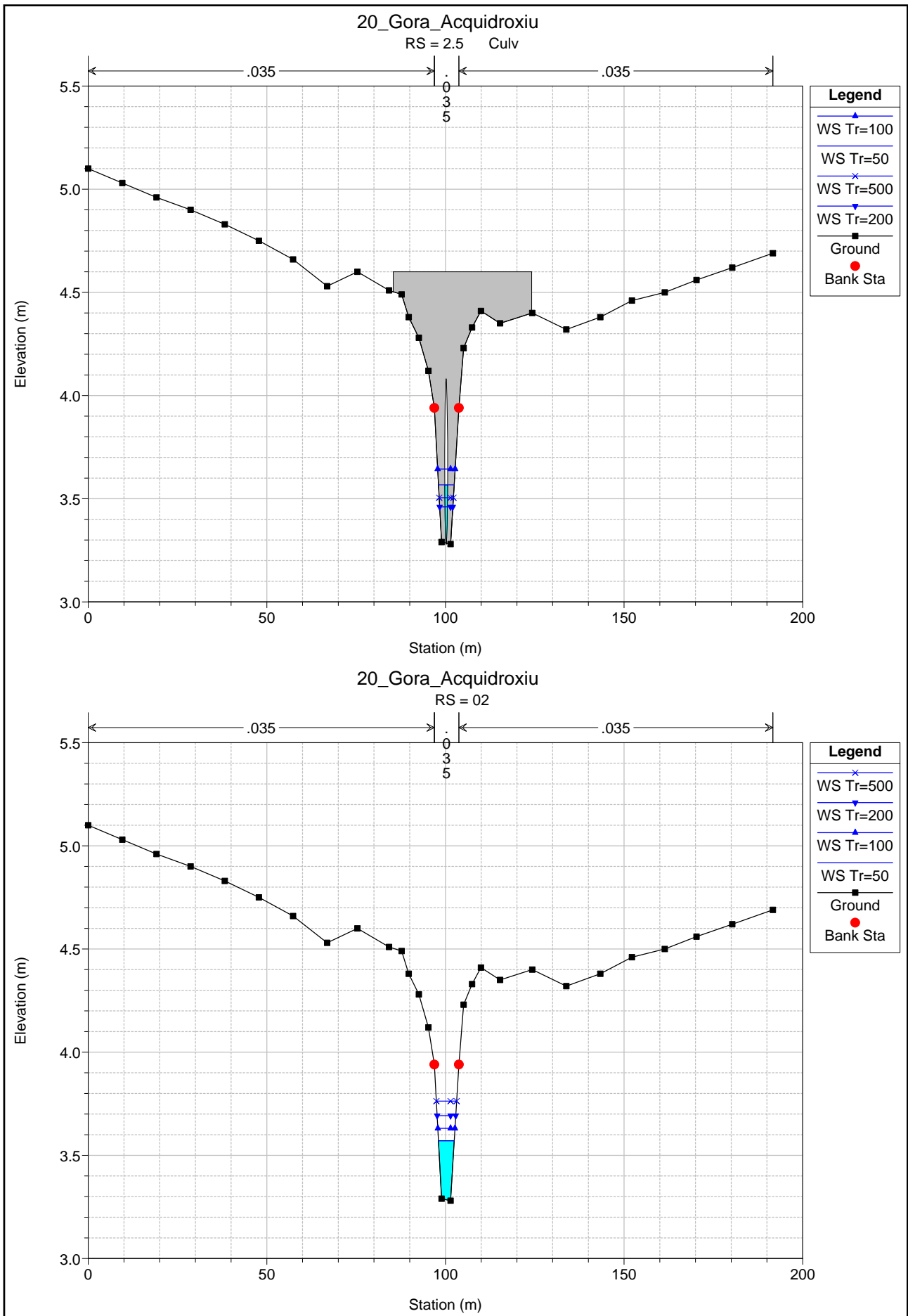


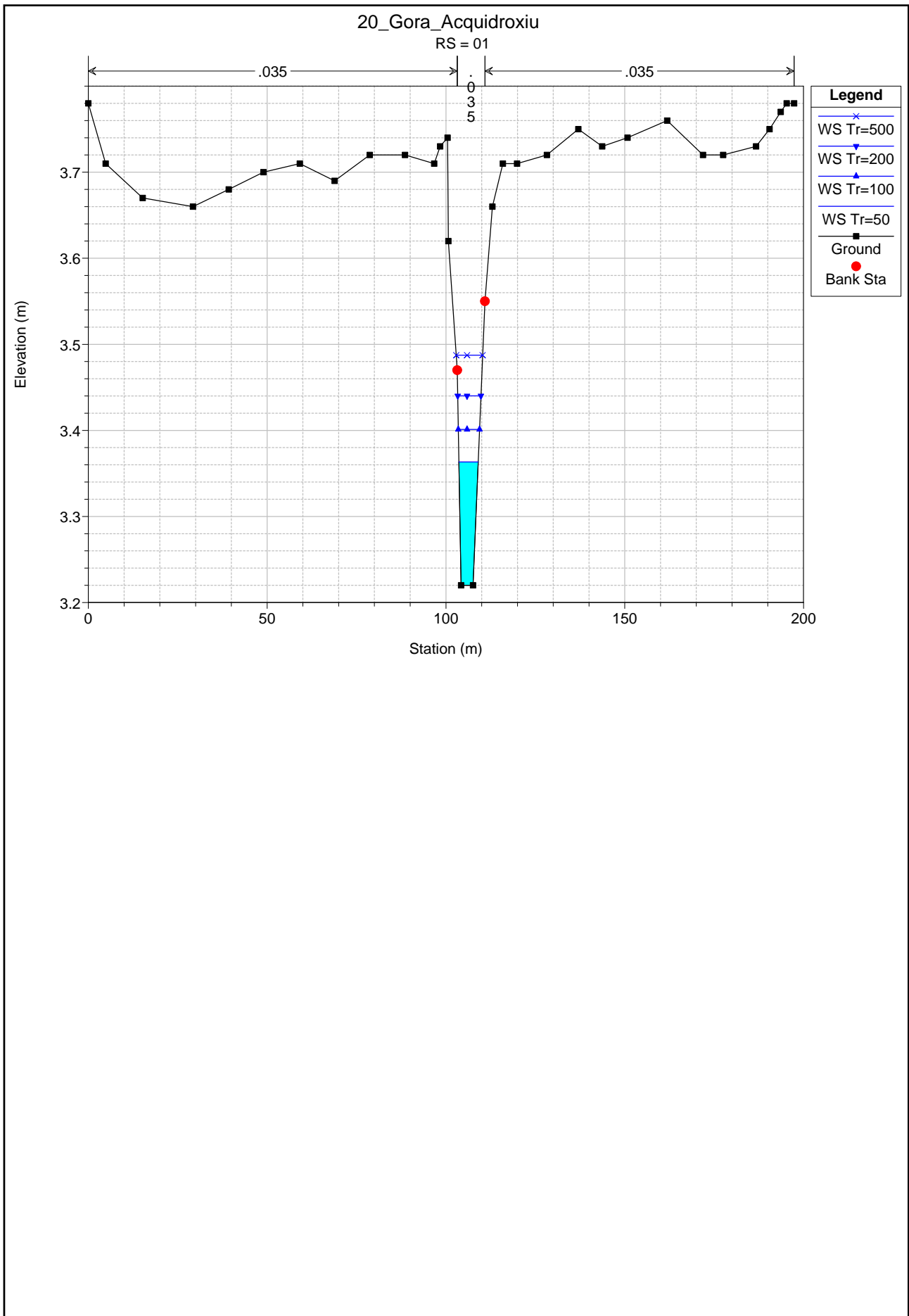






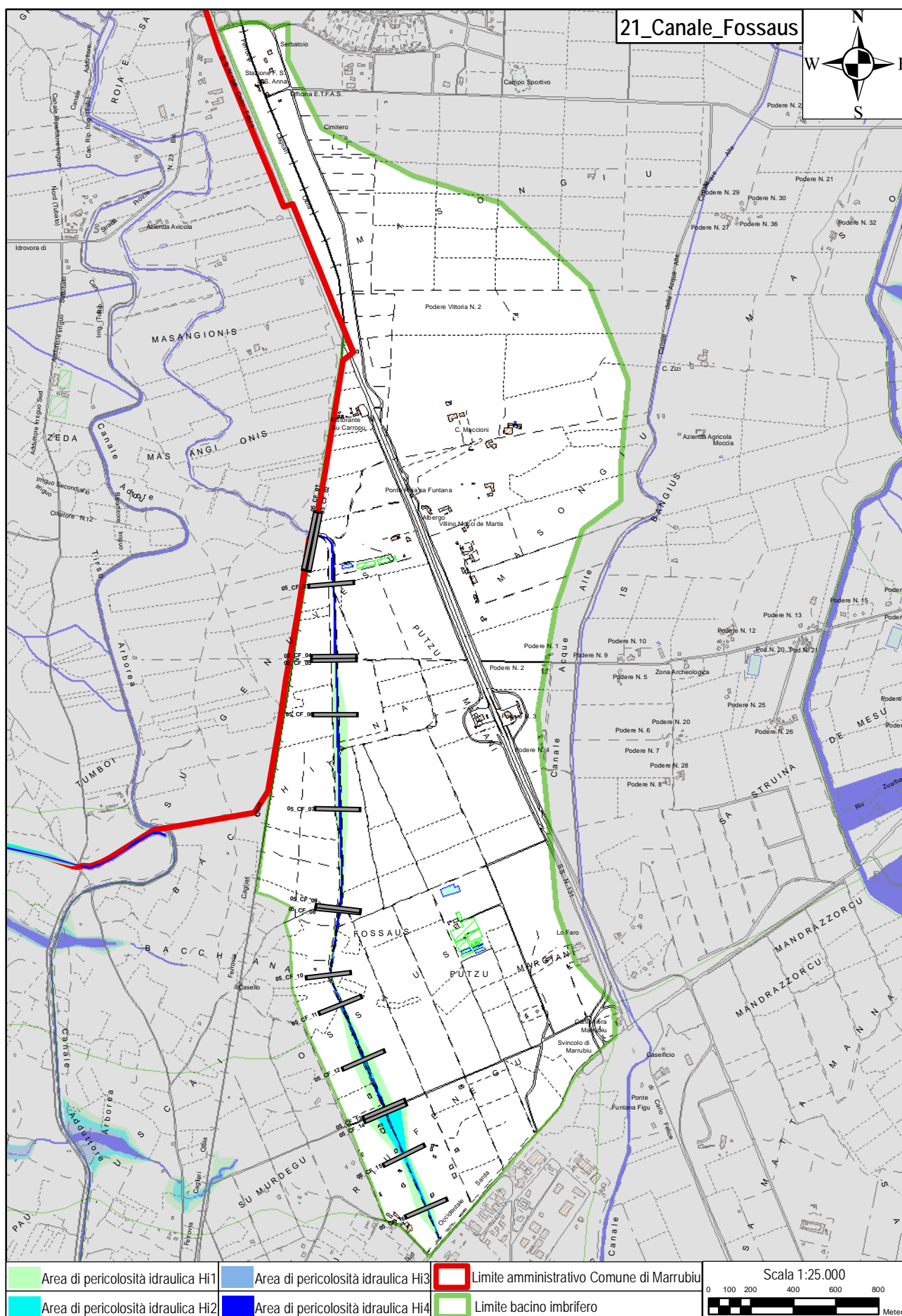






14. Canale Fossaus

Inquadramento



Principali grandezze morfometriche

GORA ACQUIDROXIU – sub-bacino n. 21			
Superficie del bacino	S	0,41	[km ²]
Altitudine massima	H_{max}	10,9	[m slm]
Altitudine minima	H_{min}	3,0	[m slm]
Altitudine media	H_{med}	6,1	[m slm]
Dislivello complessivo	$H_{max}-H_{min}$	7,8	[m]
Pendenza media del bacino	p_m	1,6	[%]
Lunghezza dell'asta principale	L	1,20	[km]
Pendenza dell'asta principale	i	1,5	[%]
Quota della sezione di chiusura	H_{min}	3,2	[m slm]
Curve Number	CN	68,42	[adim]

Tempi di corrivazione

Formulazione			
Soil Conservation Service (SCS)	t_c	1,76	[m/s]
Ventura	t_c	0,67	[m/s]
Giandotti	t_c	3,10	[m/s]
Pasini	t_c	0,70	[m/s]
VAPI	t_c	0,99	[m/s]
Viparelli	t_c	0,33	[m/s]

Portate di massima piena

Formula	T = 50 anni	T = 100 anni	T = 200 anni	T = 500 anni	
TCEV (sez. 09)	0,30	0,46	0,66	0,96	[m ³ /s]

Tabella eventi di piena T = 50, 100, 200, 500

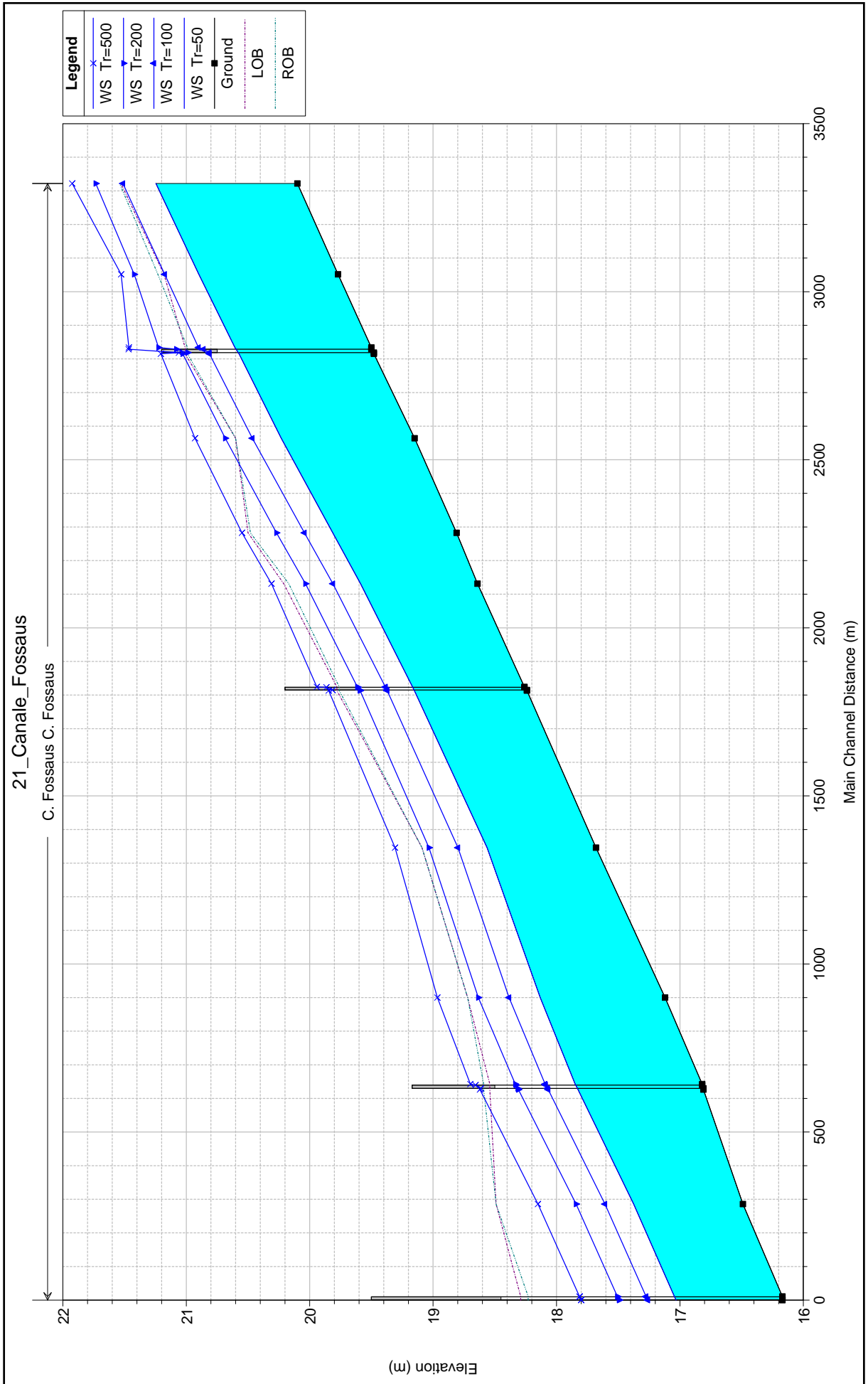
HEC-RAS Plan: 1 River: C. Fossaus Reach: C. Fossaus

Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
C. Fossaus	16	Tr=50	270.12	6.41	20.10	21.25	1.12	5.70	0.40
C. Fossaus	16	Tr=100	270.12	9.50	20.10	21.51	1.23	7.74	0.40
C. Fossaus	16	Tr=200	270.12	13.13	20.10	21.73	1.37	10.05	0.54
C. Fossaus	16	Tr=500	270.12	18.67	20.10	21.92	1.49	19.25	0.91
C. Fossaus	15	Tr=50	217.84	6.41	19.77	20.90	0.95	6.71	0.32
C. Fossaus	15	Tr=100	217.84	9.50	19.77	21.17	1.07	8.90	0.33
C. Fossaus	15	Tr=200	217.84	13.13	19.77	21.42	1.17	12.45	0.54
C. Fossaus	15	Tr=500	217.84	18.67	19.77	21.53	1.48	16.28	0.77
C. Fossaus	14	Tr=50	5.00	6.41	19.50	20.61	1.08	5.93	0.38
C. Fossaus	14	Tr=100	5.00	9.50	19.50	20.90	1.16	8.20	0.37
C. Fossaus	14	Tr=200	5.00	13.13	19.50	21.22	1.11	18.17	0.85
C. Fossaus	14	Tr=500	5.00	18.67	19.50	21.47	0.73	59.68	0.31
C. Fossaus	13.5		Bridge						
C. Fossaus	13	Tr=50	251.45	6.41	19.48	20.57	1.11	5.76	0.39
C. Fossaus	13	Tr=100	251.45	9.50	19.48	20.81	1.26	7.56	0.41
C. Fossaus	13	Tr=200	251.45	13.13	19.48	21.03	1.40	9.38	0.47
C. Fossaus	13	Tr=500	251.45	18.67	19.48	21.21	1.61	16.39	1.18
C. Fossaus	12	Tr=50	281.29	6.41	19.15	20.23	0.95	6.76	0.34
C. Fossaus	12	Tr=100	281.29	9.50	19.15	20.46	1.06	8.93	0.36
C. Fossaus	12	Tr=200	281.29	13.13	19.15	20.68	1.17	11.52	0.53
C. Fossaus	12	Tr=500	281.29	18.67	19.15	20.93	1.16	25.72	0.69
C. Fossaus	11	Tr=50	151.27	6.41	18.81	19.81	1.08	5.96	0.40
C. Fossaus	11	Tr=100	151.27	9.50	18.81	20.04	1.20	7.94	0.41
C. Fossaus	11	Tr=200	151.27	13.13	18.81	20.27	1.30	10.12	0.41
C. Fossaus	11	Tr=500	151.27	18.67	18.81	20.55	1.42	13.15	0.45
C. Fossaus	10	Tr=50	307.27	6.41	18.64	19.59	1.01	6.36	0.36
C. Fossaus	10	Tr=100	307.27	9.50	18.64	19.81	1.16	8.21	0.38
C. Fossaus	10	Tr=200	307.27	13.13	18.64	20.03	1.29	10.19	0.39
C. Fossaus	10	Tr=500	307.27	18.67	18.64	20.31	1.46	12.92	0.44
C. Fossaus	09	Tr=50	1.00	6.41	18.26	19.17	0.97	6.63	0.36
C. Fossaus	09	Tr=100	1.00	9.50	18.26	19.39	1.09	8.75	0.37
C. Fossaus	09	Tr=200	1.00	13.13	18.26	19.61	1.18	11.15	0.37
C. Fossaus	09	Tr=500	1.00	18.67	18.26	19.94	1.25	15.32	0.41
C. Fossaus	8.5		Bridge						
C. Fossaus	08	Tr=50	467.12	6.41	18.24	19.15	0.96	6.64	0.36
C. Fossaus	08	Tr=100	467.12	9.50	18.24	19.37	1.08	8.76	0.37
C. Fossaus	08	Tr=200	467.12	13.13	18.24	19.59	1.19	11.07	0.38
C. Fossaus	08	Tr=500	467.12	18.67	18.24	19.85	1.33	14.06	0.42
C. Fossaus	07	Tr=50	446.13	6.41	17.68	18.56	0.91	7.04	0.34
C. Fossaus	07	Tr=100	446.13	9.50	17.68	18.80	1.01	9.37	0.34
C. Fossaus	07	Tr=200	446.13	13.13	17.68	19.03	1.10	11.89	0.34
C. Fossaus	07	Tr=500	446.13	18.67	17.68	19.31	1.23	17.03	0.68
C. Fossaus	06	Tr=50	257.15	6.41	17.12	18.13	0.80	7.99	0.29
C. Fossaus	06	Tr=100	257.15	9.50	17.12	18.38	0.89	10.63	0.29
C. Fossaus	06	Tr=200	257.15	13.13	17.12	18.63	0.97	13.49	0.29
C. Fossaus	06	Tr=500	257.15	18.67	17.12	18.97	1.04	20.98	0.54
C. Fossaus	05	Tr=50	3.00	6.41	16.82	17.85	1.01	6.34	0.35
C. Fossaus	05	Tr=100	3.00	9.50	16.82	18.09	1.15	8.25	0.37
C. Fossaus	05	Tr=200	3.00	13.13	16.82	18.33	1.28	10.29	0.38

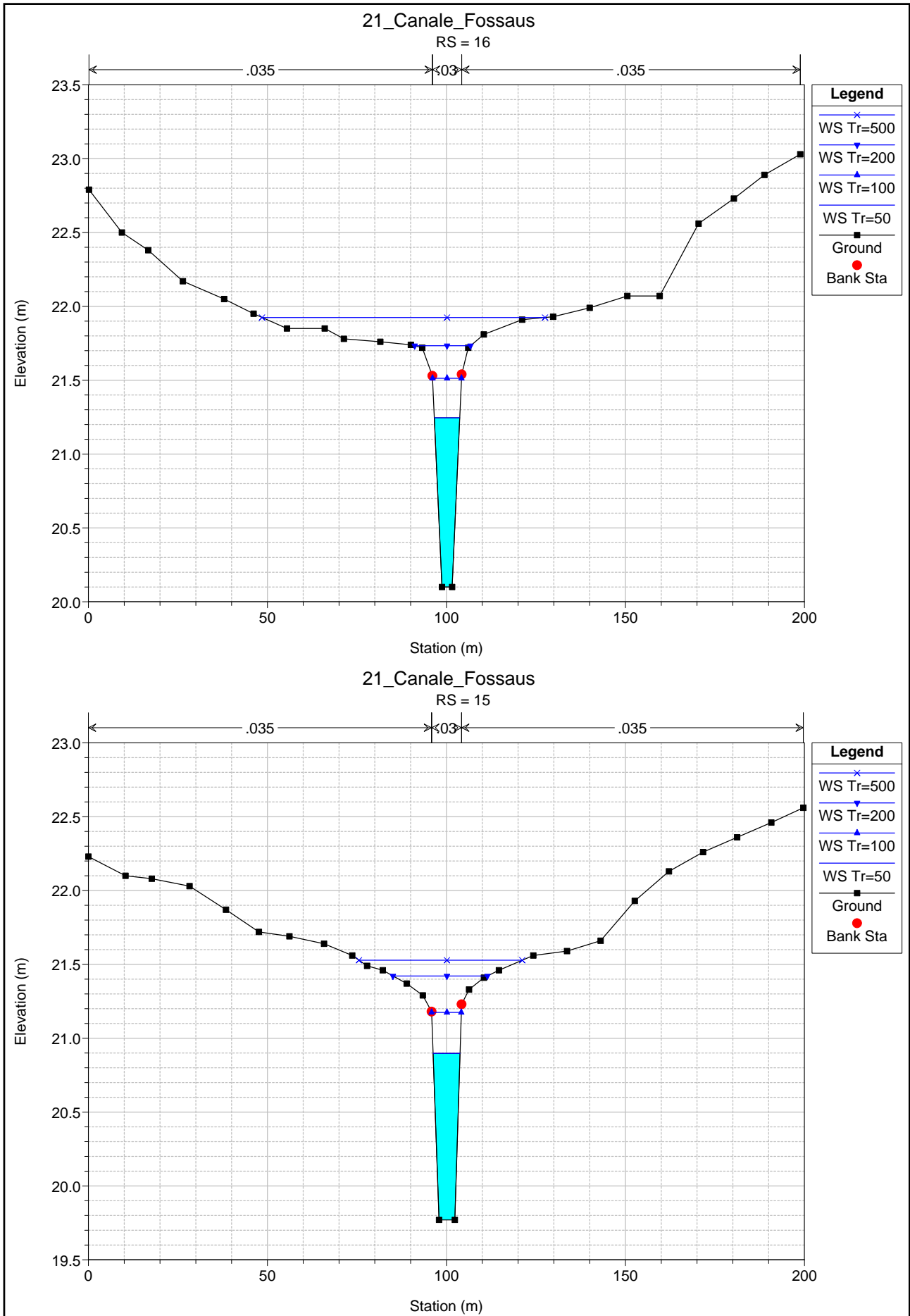
HEC-RAS Plan: 1 River: C. Fossaus Reach: C. Fossaus (Continued)

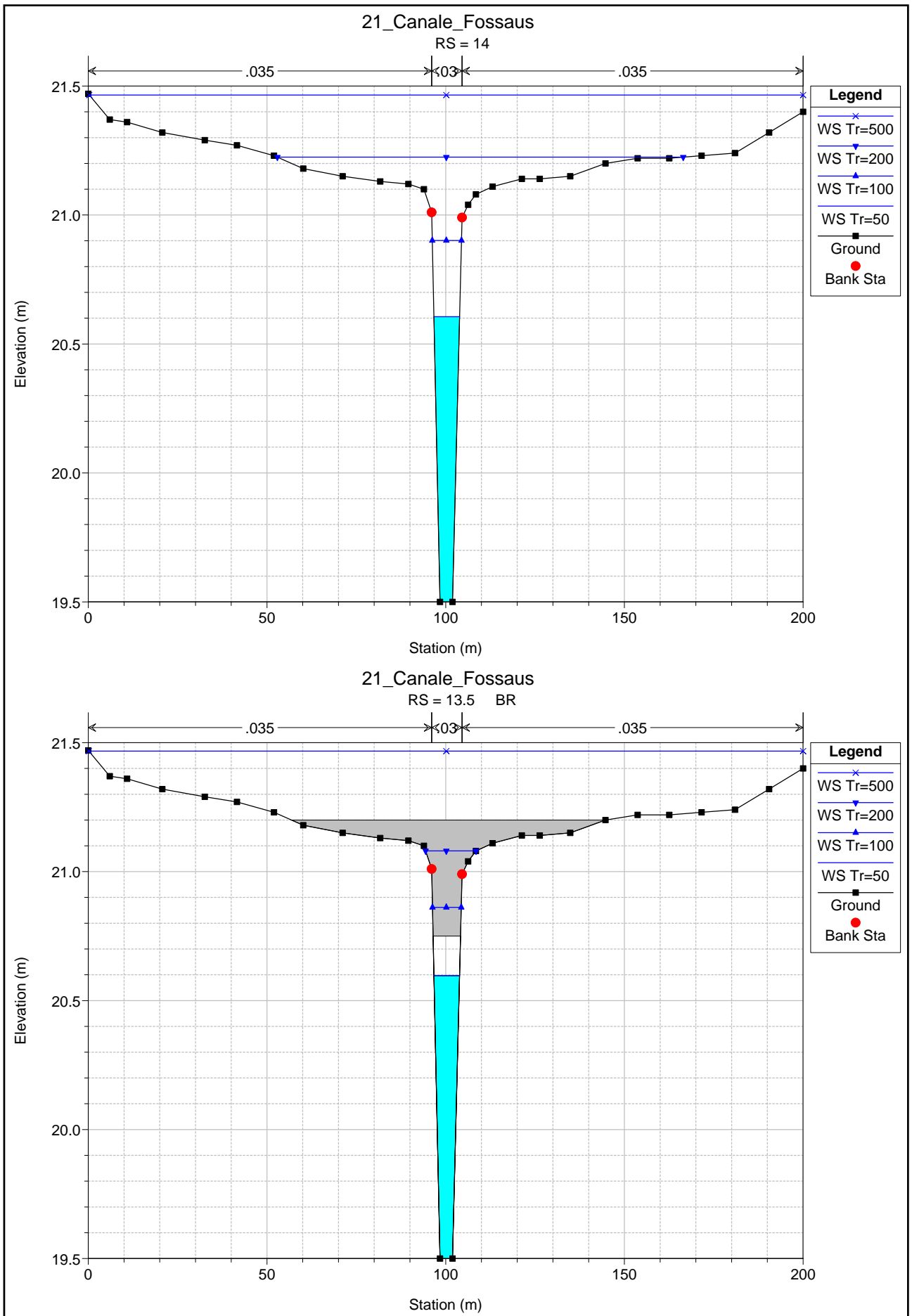
Reach	River Sta	Profile	Length Chnl (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Vel Chnl (m/s)	Flow Area (m2)	Froude # XS
C. Fossaus	05	Tr=500	3.00	18.67	16.82	18.70	1.37	13.84	0.41
C. Fossaus	4.5		Bridge						
C. Fossaus	04	Tr=50	340.75	6.41	16.81	17.83	1.03	6.24	0.36
C. Fossaus	04	Tr=100	340.75	9.50	16.81	18.07	1.17	8.12	0.37
C. Fossaus	04	Tr=200	340.75	13.13	16.81	18.31	1.30	10.14	0.38
C. Fossaus	04	Tr=500	340.75	18.67	16.81	18.62	1.44	13.01	0.42
C. Fossaus	03	Tr=50	274.92	6.41	16.49	17.37	0.98	6.55	0.35
C. Fossaus	03	Tr=100	274.92	9.50	16.49	17.61	1.12	8.47	0.36
C. Fossaus	03	Tr=200	274.92	13.13	16.49	17.84	1.25	10.50	0.37
C. Fossaus	03	Tr=500	274.92	18.67	16.49	18.15	1.40	13.30	0.38
C. Fossaus	02	Tr=50	1.00	6.41	16.17	17.04	0.91	7.05	0.33
C. Fossaus	02	Tr=100	1.00	9.50	16.17	17.27	1.04	9.13	0.33
C. Fossaus	02	Tr=200	1.00	13.13	16.17	17.51	1.16	11.34	0.34
C. Fossaus	02	Tr=500	1.00	18.67	16.17	17.81	1.30	14.40	0.35
C. Fossaus	1.5		Bridge						
C. Fossaus	01	Tr=50		6.41	16.17	17.03	0.93	6.93	0.33
C. Fossaus	01	Tr=100		9.50	16.17	17.26	1.06	9.00	0.34
C. Fossaus	01	Tr=200		13.13	16.17	17.49	1.17	11.20	0.35
C. Fossaus	01	Tr=500		18.67	16.17	17.80	1.31	14.25	0.35

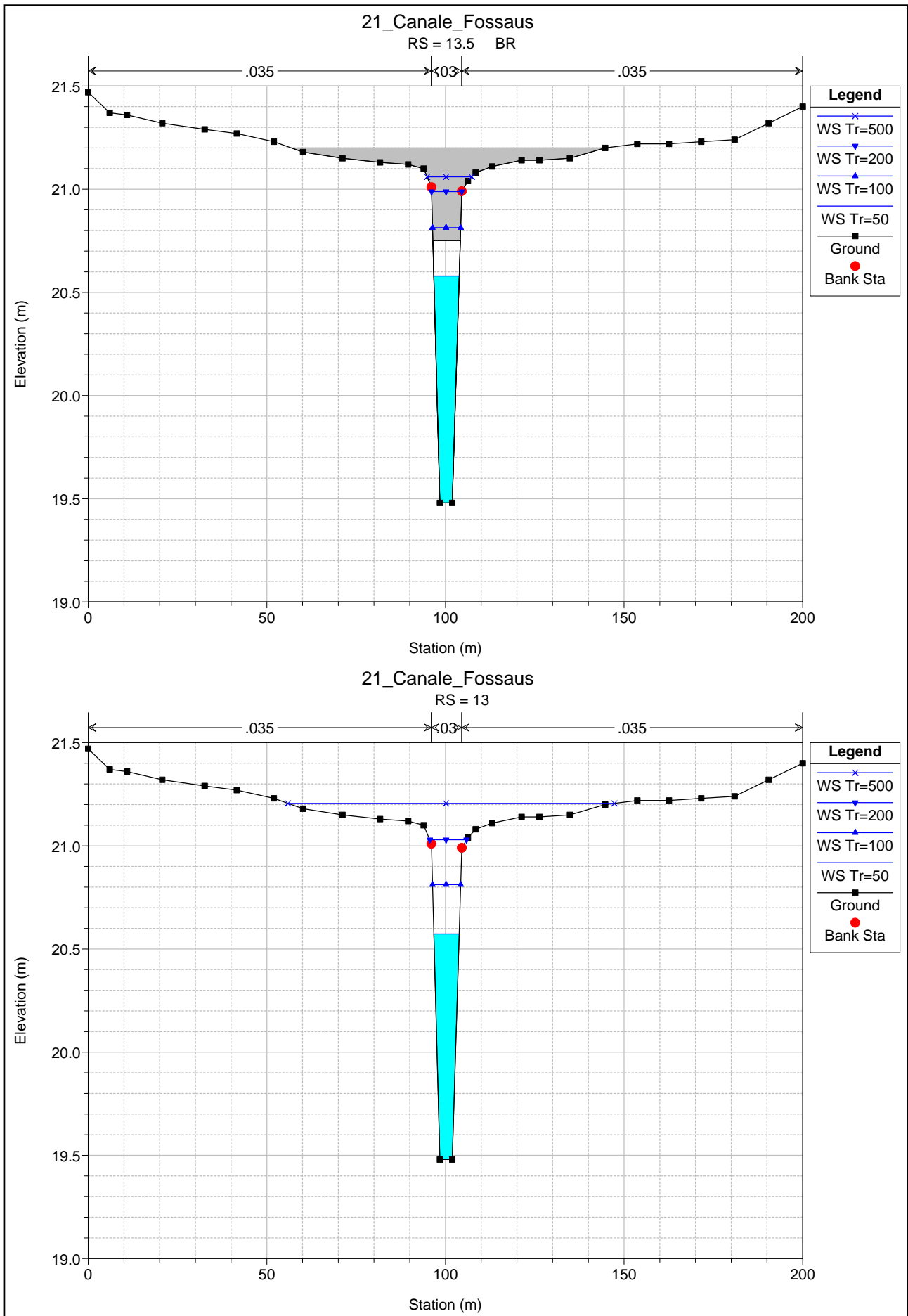
Profilo

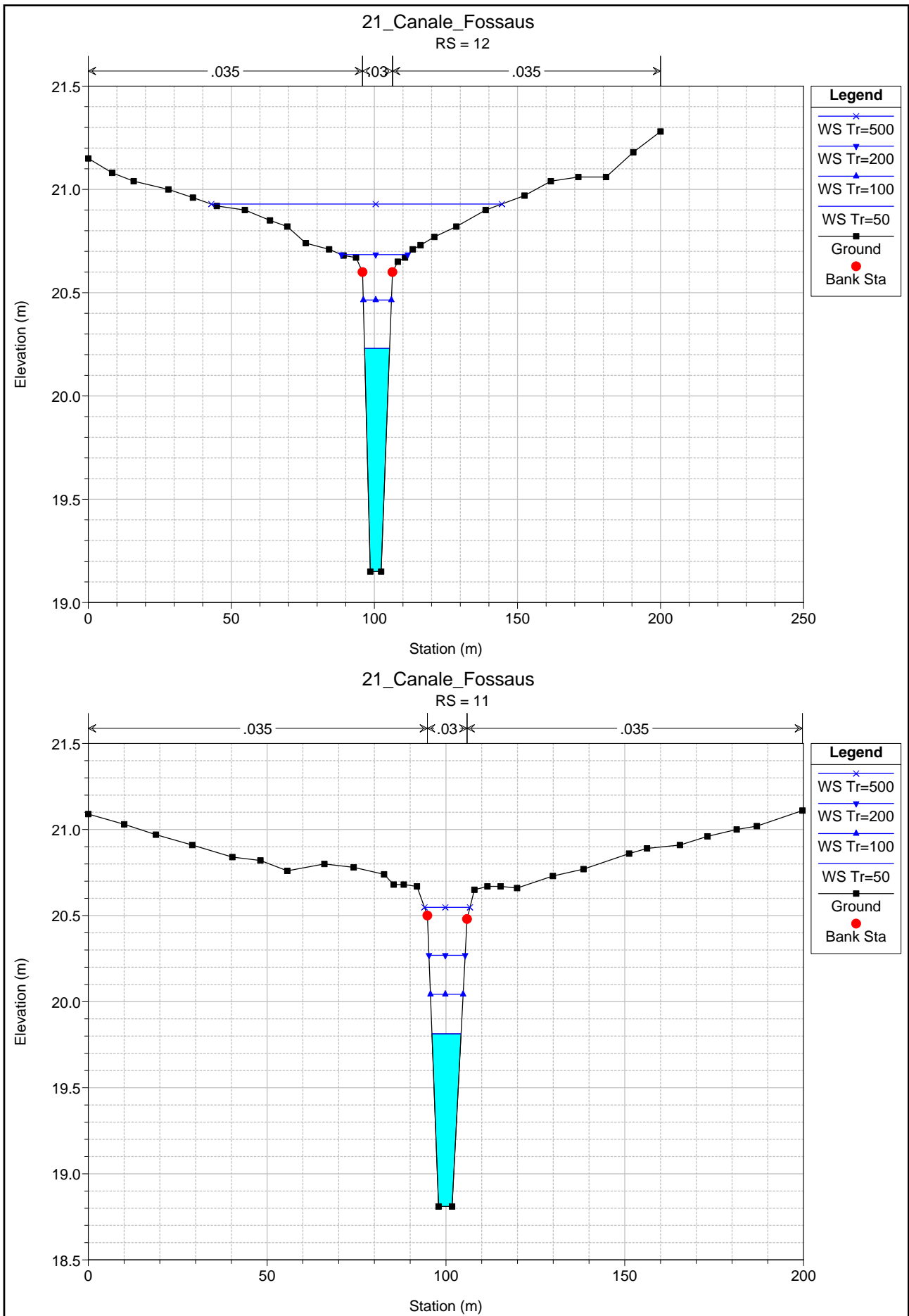


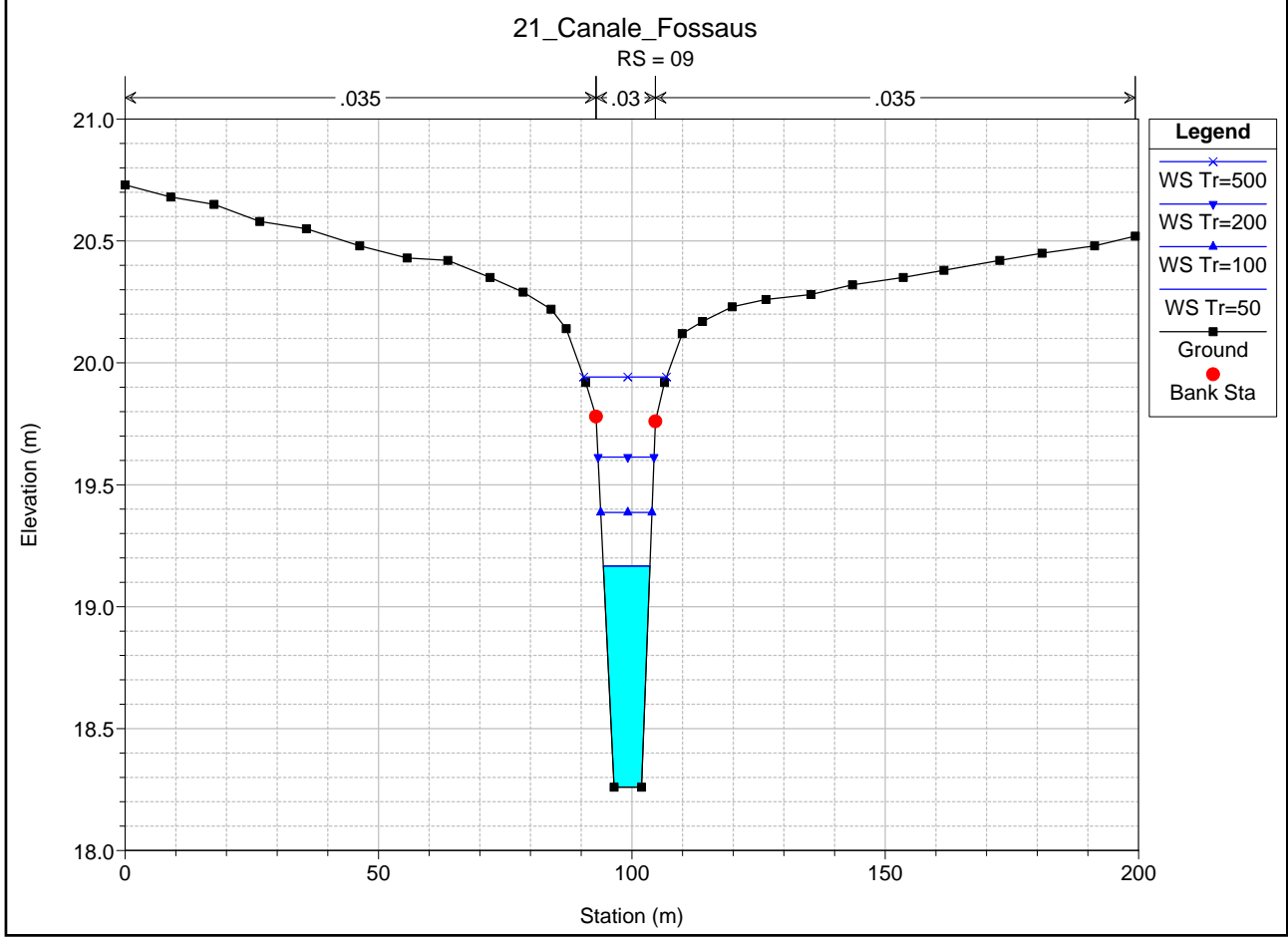
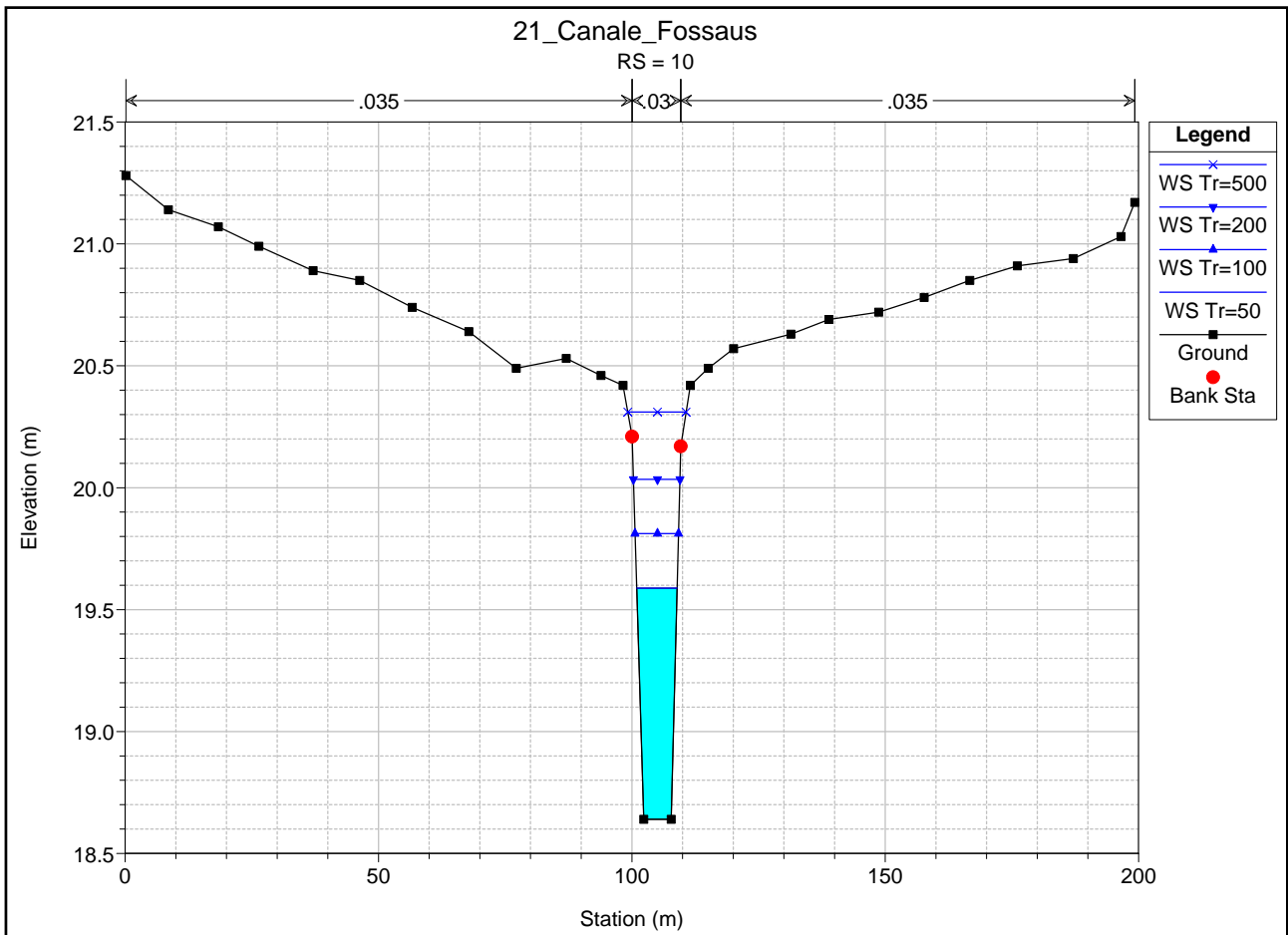
Sezioni fluviali relative ai tempi di ritorno considerati

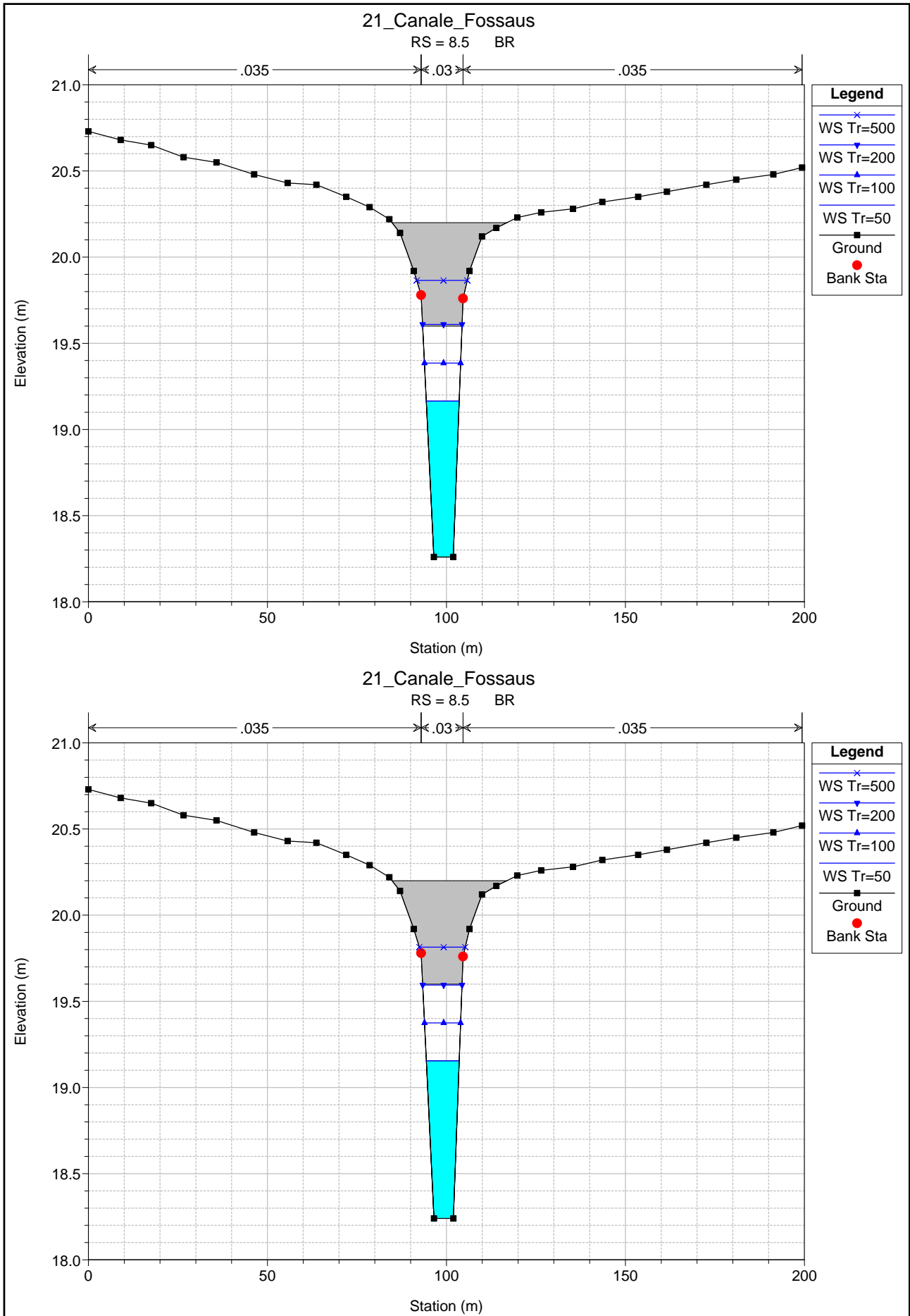


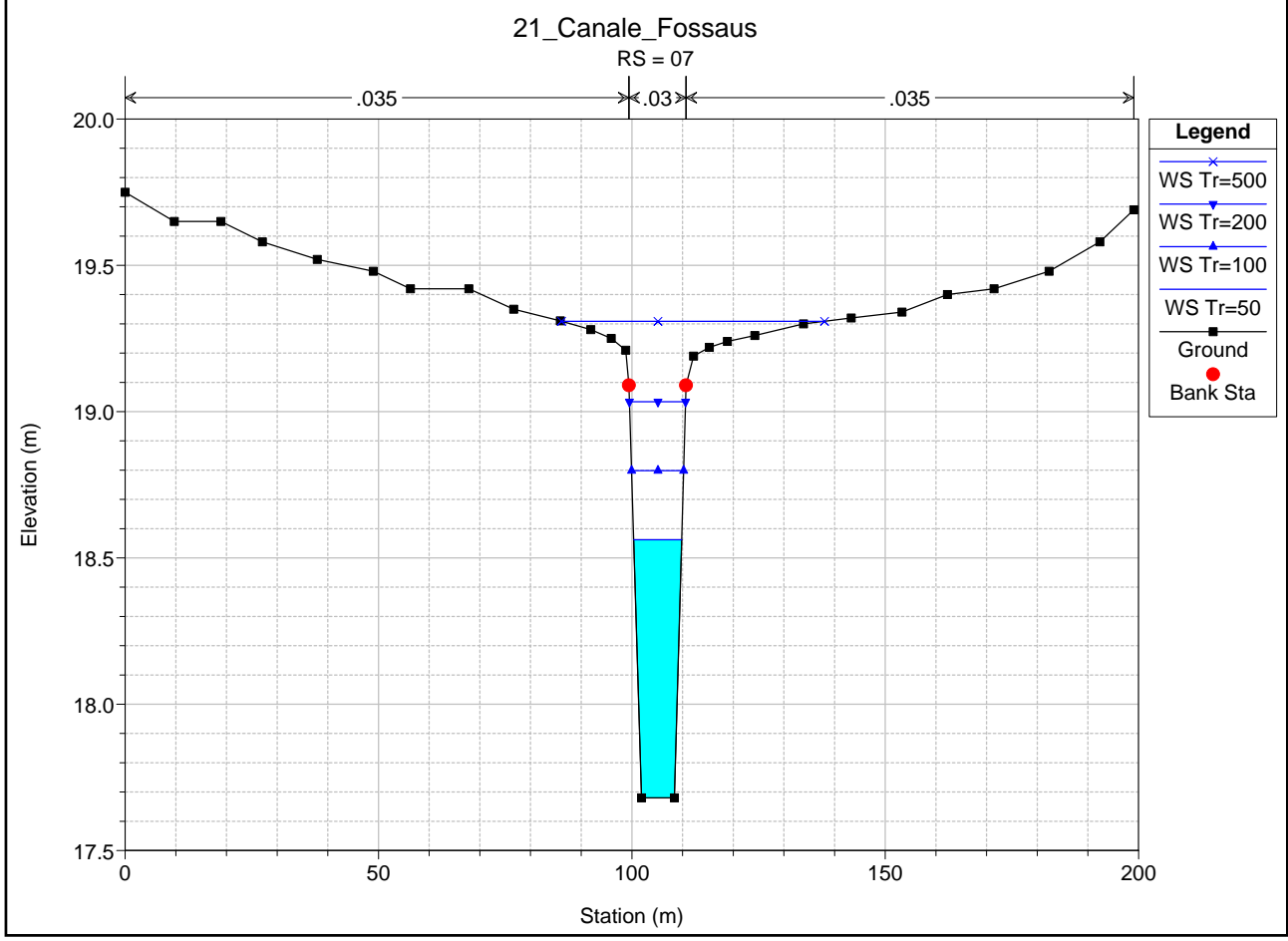
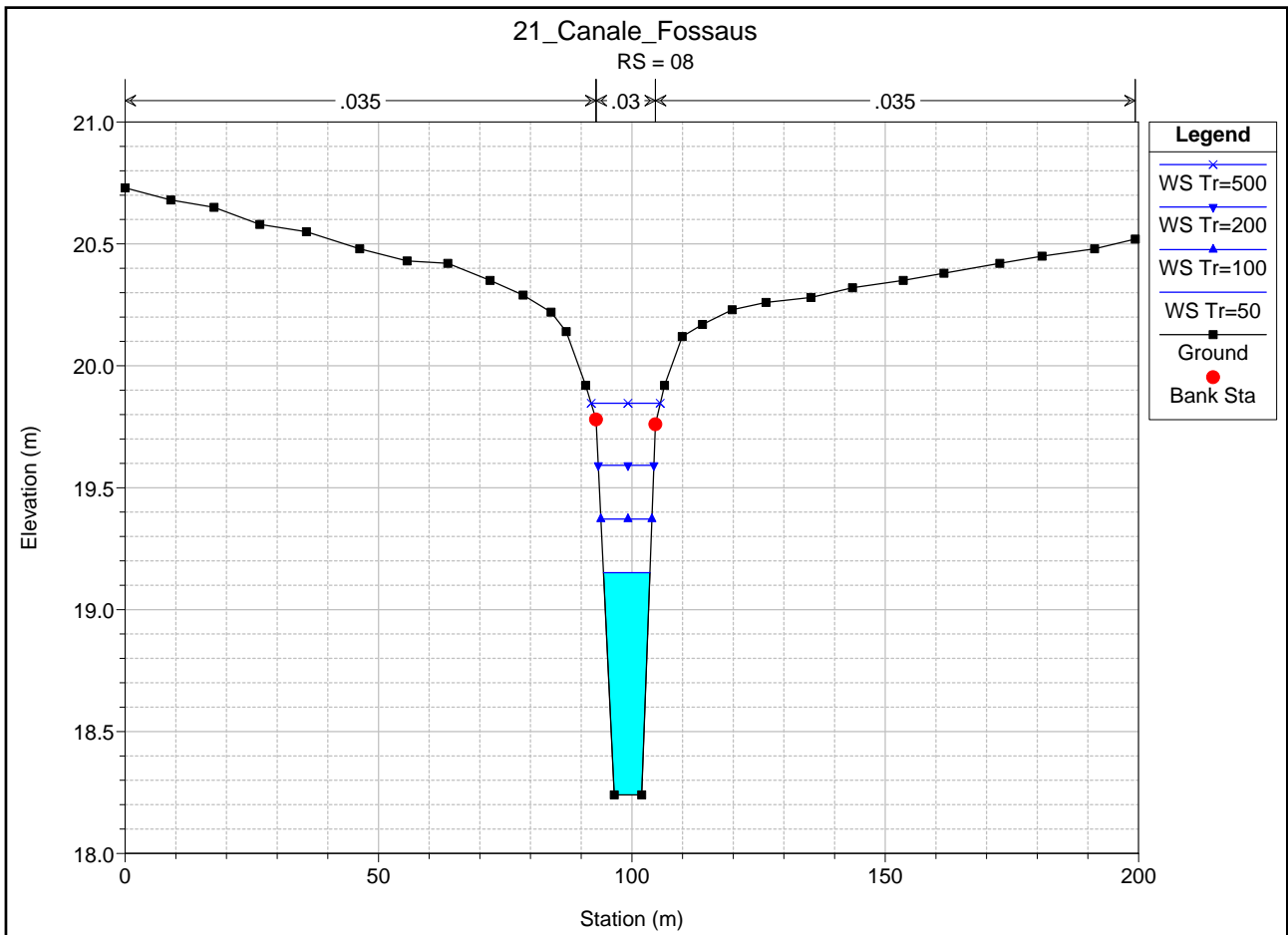


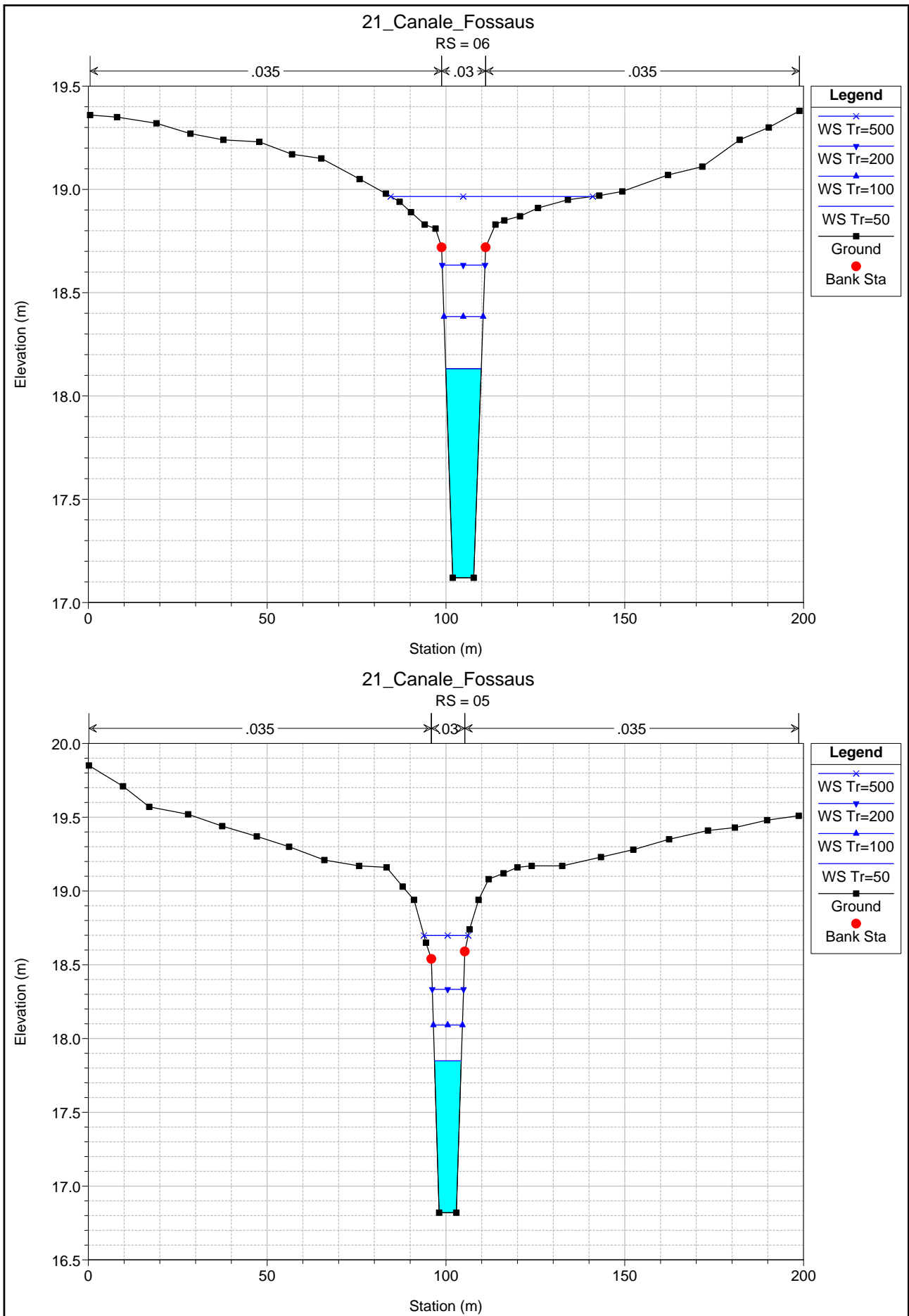


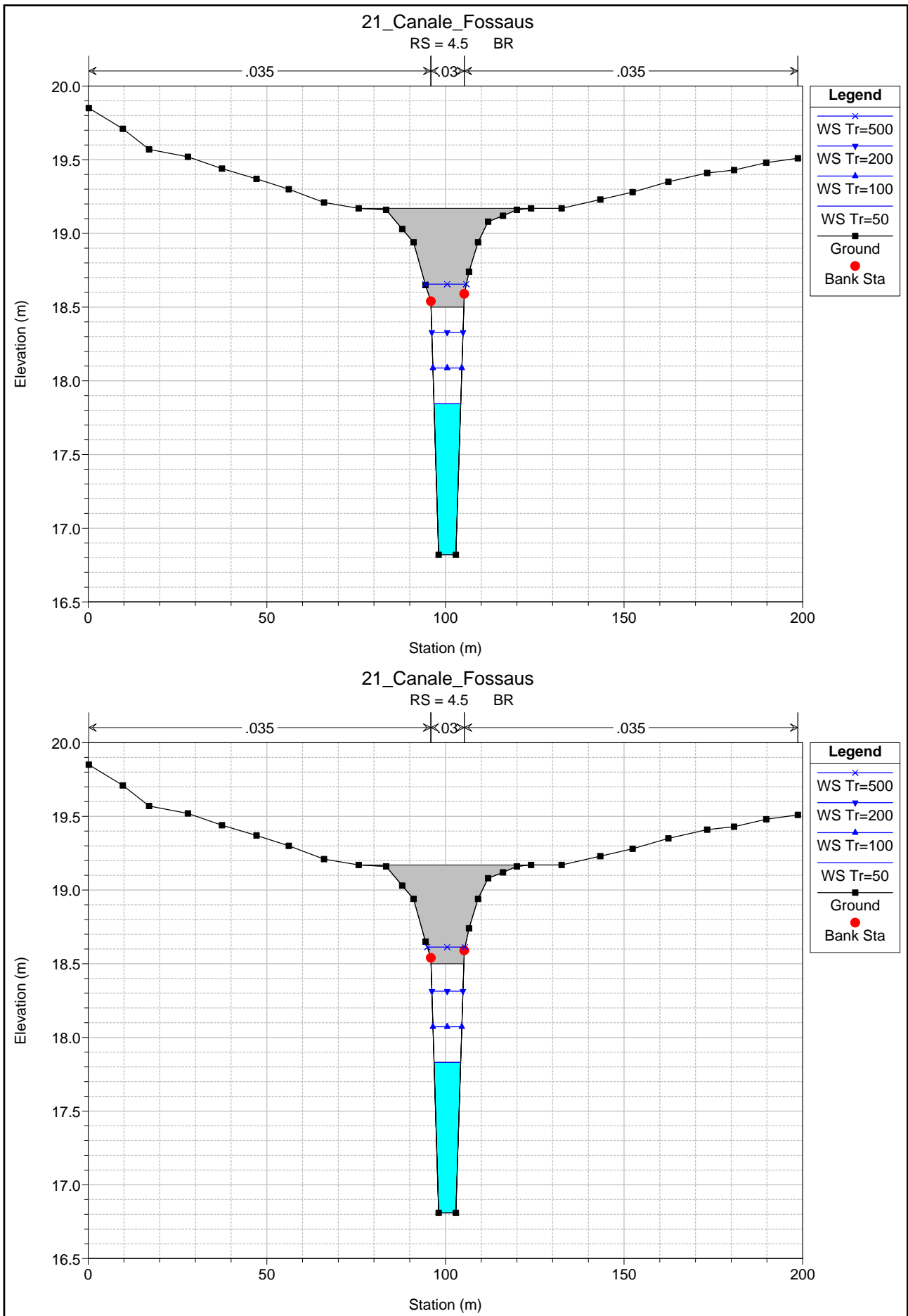


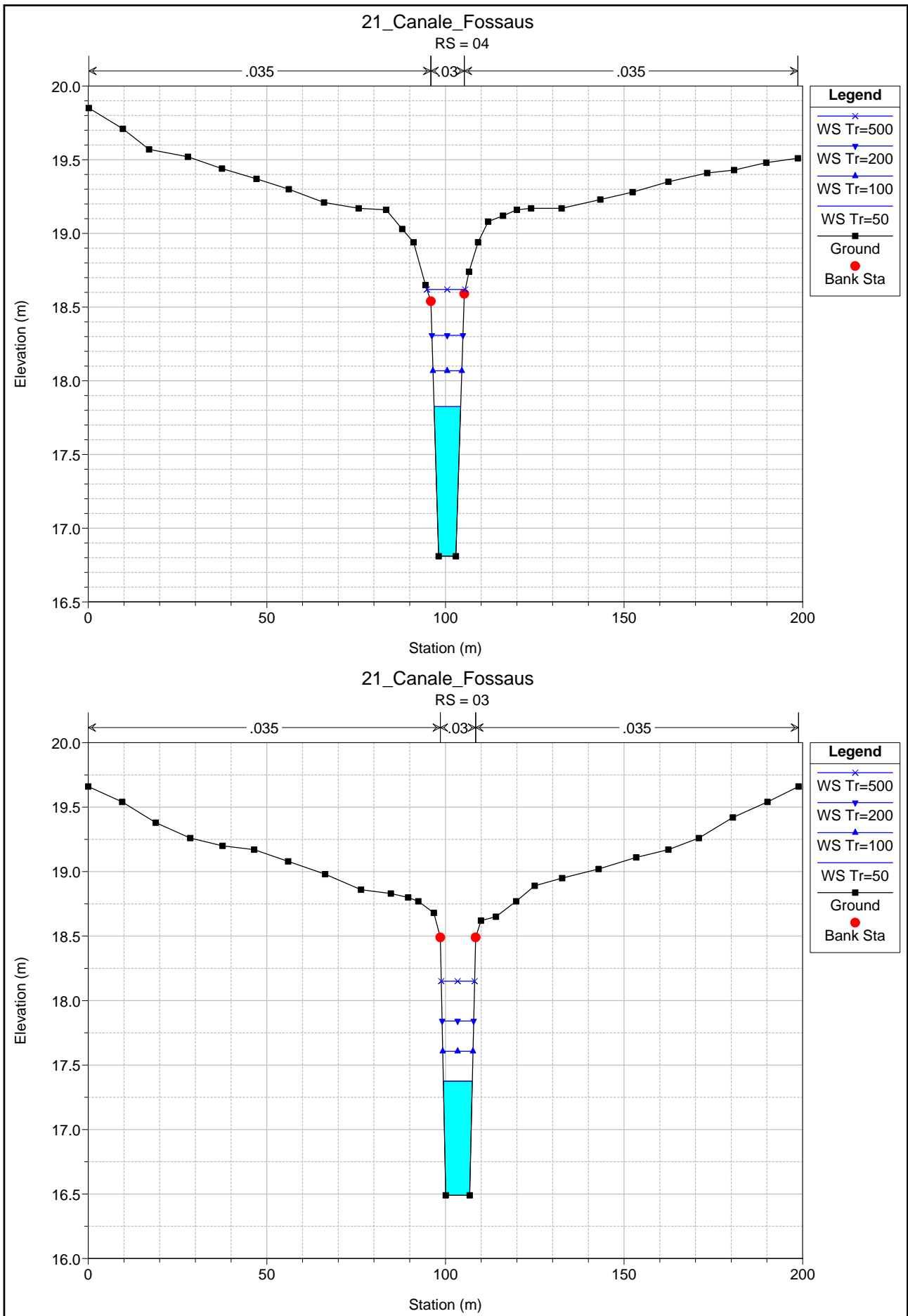


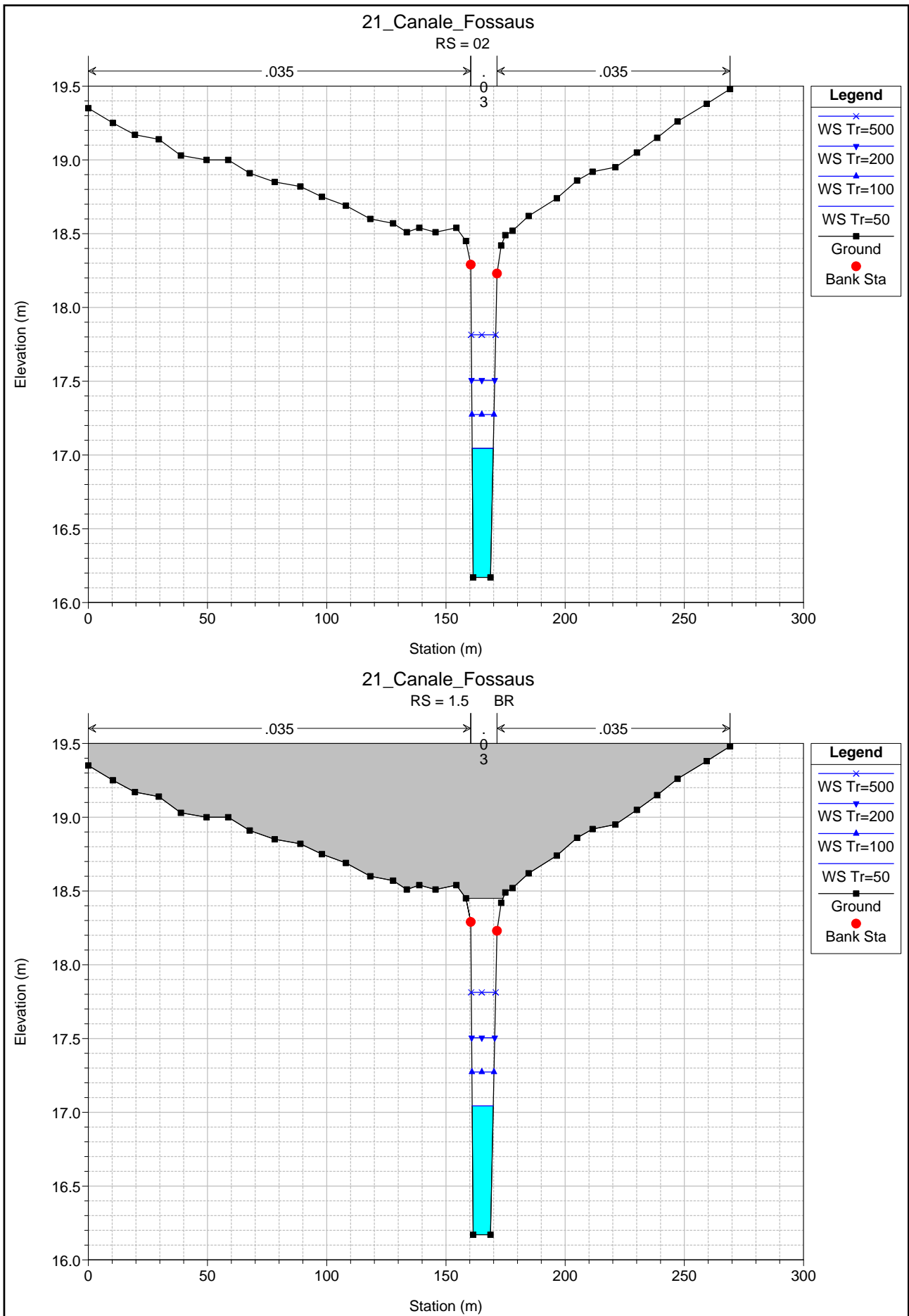


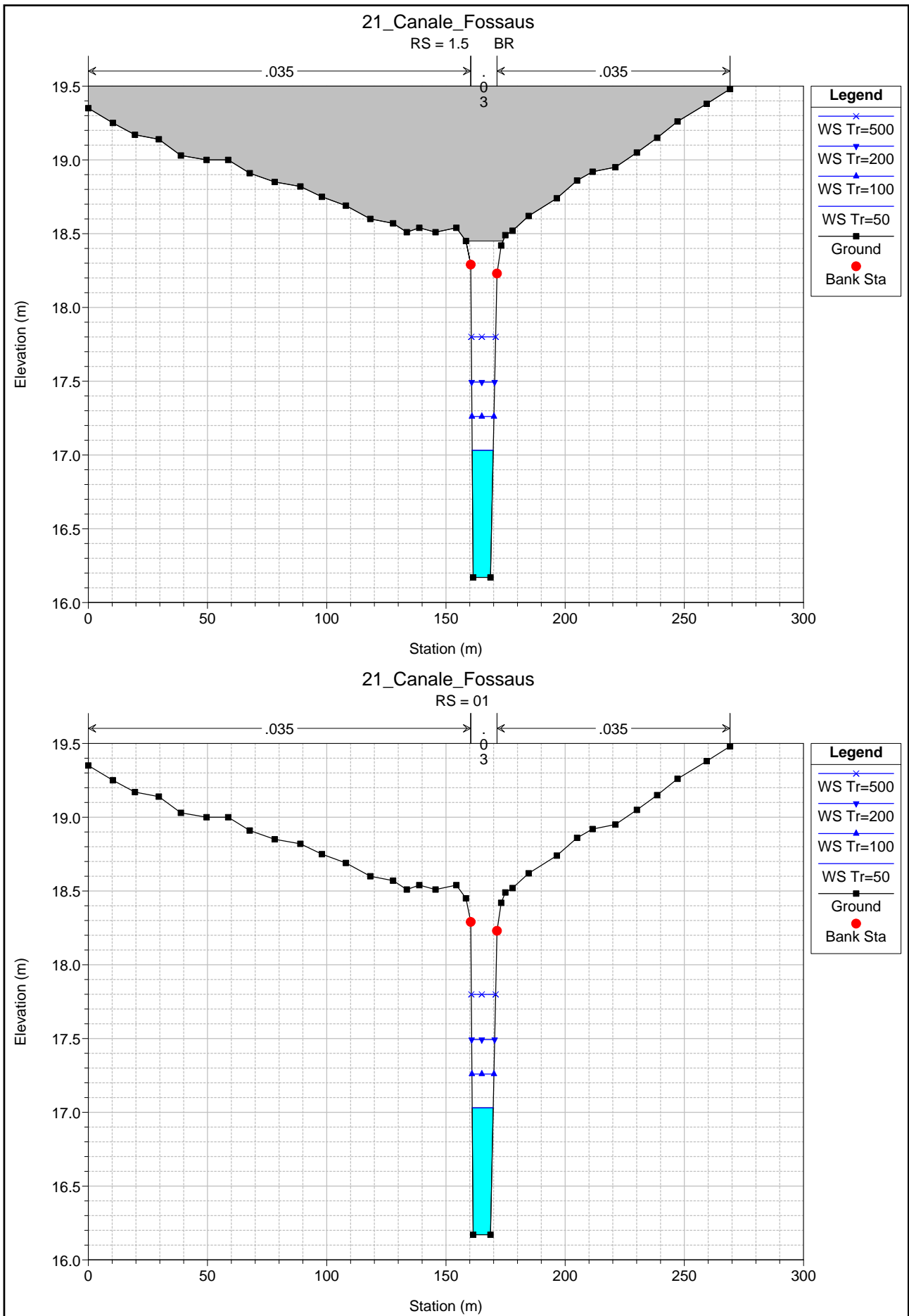












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