

# CASSA DI ESPANSIONE DEL TORRENTE BAGANZA NEI COMUNI DI FELINO, SALA BAGANZA, COLLECCHIO E PARMA (PR-E-1047)

## PROGETTO DEFINITIVO

A	02/2018	Emissione a seguito dei rilievi del servizio di verifica (art. 26 D.Lgs. 50/2016)	MC	AB	DC
INDICE	DATA	MODIFICHE	DISEGN.	CONTR.	APPROV.

## IDROLOGIA, MORFOLOGIA E IDRAULICA RELAZIONE IDROLOGICA E IDRAULICA DELL'ASTA FLUVIALE Appendice con risultati del modello numerico

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### CODICE ELABORATO:

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## INDICE

### 1. PREMESSA .....2

**APPENDICE 1:** Risultati modello numerico (formato tabulare e grafico): simulazioni stato di fatto Torrente Baganza

**APPENDICE 2:** Risultati modello numerico (formato tabulare e grafico): simulazioni stato di progetto Torrente Baganza

**APPENDICE 3:** Risultati modello numerico (formato tabulare e grafico): simulazioni stato comparativo Torrente Baganza

**APPENDICE 4:** Risultati modello numerico (formato tabulare e grafico): simulazioni stato di fatto Torrente Parma

**APPENDICE 5:** Risultati modello numerico (formato tabulare e grafico): simulazioni stato di progetto Torrente Parma

**APPENDICE 6:** Risultati modello numerico (formato tabulare e grafico): simulazioni stato comparativo Torrente Parma

**APPENDICE 7:** Atlante inquadramento sezioni idrauliche Torrente Baganza

**APPENDICE 8:** Atlante inquadramento sezioni idrauliche Torrente Parma

## 1. PREMESSA

Il presente documento, che costituisce l'appendice della Relazione Idrologica ed idraulica (elaborato BAG2\_02IDR\_R\_RE\_01), si articola nello specifico nei seguenti punti:

- Risultati modello numerico (formato tabulare e grafico): simulazioni stato di fatto Torrente Baganza (Appendice 1);
- Risultati modello numerico (formato tabulare e grafico): simulazioni stato di progetto Torrente Baganza (Appendice 2);
- Risultati modello numerico (formato tabulare e grafico): simulazioni stato comparativo Torrente Baganza (Appendice 3);
- Risultati modello numerico (formato tabulare e grafico): simulazioni stato di fatto Torrente Parma (Appendice 4);
- Risultati modello numerico (formato tabulare e grafico): simulazioni stato di progetto Torrente Parma (Appendice 5);
- Risultati modello numerico (formato tabulare e grafico): simulazioni stato comparativo Torrente Parma (Appendice 6);
- Atlante inquadramento sezioni idrauliche Torrente Baganza (Appendice 7);
- Atlante inquadramento sezioni idrauliche Torrente Parma (Appendice 8);

I risultati in formato grafico sono stati riportati a livello di sezioni trasversali e non con riferimento al profilo longitudinale. La lunghezza dei tratti simulati e la restituzione in formato di profilo longitudinale non ha consentito infatti una sufficiente chiarezza di lettura con riferimento al profilo stesso.

Sono stati elaborati per ulteriore chiarezza di lettura dei risultati due atlanti di inquadramento delle sezioni idrauliche implementate nel modello.

## APPENDICE 1

### PROFILI DI MOTO PERMANENTE – TORRENTE BAGANZA

#### STATO DI FATTO

Portate								
TR BAG	5	10	20	50	100	200	500	1000
Qmax (mc/s) BAG	227	306	397	542	676	835		



HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza

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
Baganza	29300	TR5	227.00	405.14	406.67	406.67	407.08	0.016633	2.87	79.17	93.99	1.00
Baganza	29300	TR10	306.00	405.14	406.86	406.86	407.36	0.015592	3.15	97.14	96.35	1.00
Baganza	29300	TR20	397.00	405.14	407.07	407.07	407.65	0.014161	3.37	118.52	108.32	0.98
Baganza	29300	TR50	542.00	405.14	407.45	407.45	408.01	0.010138	3.37	174.32	171.57	0.86
Baganza	29300	TR100	676.00	405.14	407.66	407.66	408.26	0.009733	3.54	213.38	191.52	0.86
Baganza	29300	TR200	835.00	405.14	407.92	407.92	408.52	0.008796	3.61	265.50	213.55	0.83
Baganza	29200	TR5	227.00	403.38	404.94	404.94	405.27	0.017278	2.54	90.19	141.79	0.98
Baganza	29200	TR10	306.00	403.38	405.10	405.10	405.48	0.015569	2.75	113.50	151.37	0.96
Baganza	29200	TR20	397.00	403.38	405.25	405.25	405.70	0.014778	2.98	136.95	158.59	0.96
Baganza	29200	TR50	542.00	403.38	405.49	405.49	406.00	0.013067	3.22	176.02	175.79	0.94
Baganza	29200	TR100	676.00	403.38	405.68	405.68	406.24	0.012109	3.40	210.92	199.78	0.92
Baganza	29200	TR200	835.00	403.38	405.86	405.86	406.49	0.011661	3.63	250.68	240.42	0.93
Baganza	29100	TR5	227.00	401.99	403.09	403.06	403.32	0.015170	2.11	108.43	212.40	0.89
Baganza	29100	TR10	306.00	401.99	403.21	403.19	403.49	0.016095	2.44	132.84	220.84	0.95
Baganza	29100	TR20	397.00	401.99	403.31	403.31	403.65	0.016282	2.69	156.34	227.62	0.97
Baganza	29100	TR50	542.00	401.99	403.49	403.49	403.88	0.015116	2.91	198.60	244.06	0.97
Baganza	29100	TR100	676.00	401.99	403.62	403.62	404.07	0.014791	3.11	230.33	249.03	0.97
Baganza	29100	TR200	835.00	401.99	403.76	403.76	404.27	0.014214	3.32	265.98	253.25	0.98
Baganza	29000	TR5	227.00	400.18	401.34	401.34	401.67	0.017915	2.60	89.50	136.07	1.00
Baganza	29000	TR10	306.00	400.18	401.51	401.51	401.89	0.015825	2.81	114.21	160.14	0.97
Baganza	29000	TR20	397.00	400.18	401.68	401.68	402.09	0.014398	2.99	143.75	185.94	0.96
Baganza	29000	TR50	542.00	400.18	401.92	401.92	402.37	0.012230	3.15	193.21	218.13	0.91
Baganza	29000	TR100	676.00	400.18	402.09	402.09	402.57	0.012274	3.29	230.43	235.14	0.92
Baganza	29000	TR200	835.00	400.18	402.24	402.24	402.78	0.012122	3.50	268.25	251.24	0.93
Baganza	28900	TR5	227.00	397.53	399.50	399.50	399.84	0.012151	2.69	92.68	132.37	0.87
Baganza	28900	TR10	306.00	397.53	399.69	399.69	400.06	0.012512	2.83	122.34	172.64	0.89
Baganza	28900	TR20	397.00	397.53	399.86	399.86	400.25	0.011700	2.97	153.72	192.56	0.88
Baganza	28900	TR50	542.00	397.53	400.07	400.07	400.51	0.011233	3.20	196.36	215.54	0.88
Baganza	28900	TR100	676.00	397.53	400.23	400.23	400.72	0.010963	3.40	231.84	230.84	0.89
Baganza	28900	TR200	835.00	397.53	400.40	400.40	400.94	0.010604	3.58	272.98	251.91	0.89
Baganza	28800	TR5	227.00	396.08	397.71	397.69	397.99	0.015959	2.45	98.68	160.43	0.94
Baganza	28800	TR10	306.00	396.08	397.84	397.84	398.18	0.016377	2.74	120.34	172.32	0.98
Baganza	28800	TR20	397.00	396.08	397.97	397.97	398.37	0.015837	2.96	143.38	175.57	0.99
Baganza	28800	TR50	542.00	396.08	398.16	398.16	398.65	0.015136	3.27	176.34	177.80	0.99
Baganza	28800	TR100	676.00	396.08	398.38	398.38	398.85	0.012510	3.35	232.27	243.44	0.93
Baganza	28800	TR200	835.00	396.08	398.53	398.53	399.07	0.012998	3.65	268.77	257.51	0.97
Baganza	28700	TR5	227.00	394.88	396.10	396.10	396.35	0.016820	2.43	104.88	199.06	0.96
Baganza	28700	TR10	306.00	394.88	396.20	396.20	396.52	0.016933	2.69	126.08	200.43	0.99
Baganza	28700	TR20	397.00	394.88	396.32	396.32	396.69	0.016236	2.90	150.37	202.93	0.99
Baganza	28700	TR50	542.00	394.88	396.50	396.50	396.94	0.015749	3.21	185.82	210.97	1.01
Baganza	28700	TR100	676.00	394.88	396.65	396.65	397.15	0.014715	3.39	218.74	215.90	0.99
Baganza	28700	TR200	835.00	394.88	396.80	396.80	397.37	0.014182	3.60	252.30	217.77	1.00
Baganza	28628.47	TR5	227.00	392.95	394.95	394.56	395.08	0.004664	1.60	141.79	155.68	0.54
Baganza	28628.47	TR10	306.00	392.95	395.17	394.73	395.32	0.004233	1.75	175.30	157.11	0.53
Baganza	28628.47	TR20	397.00	392.95	395.39	394.90	395.57	0.003953	1.89	209.99	158.59	0.52
Baganza	28628.47	TR50	542.00	392.95	395.70	395.12	395.92	0.003673	2.08	260.65	161.42	0.52
Baganza	28628.47	TR100	676.00	392.95	395.97	395.29	396.22	0.003501	2.22	304.02	164.20	0.52
Baganza	28628.47	TR200	835.00	392.95	396.27	395.48	396.55	0.003481	2.36	353.66	173.82	0.53
Baganza	28617.95	TR5	227.00	392.67	394.94	394.41	395.04	0.003009	1.44	157.38	145.33	0.44
Baganza	28617.95	TR10	306.00	392.67	395.15	394.61	395.28	0.003058	1.62	188.35	147.20	0.46
Baganza	28617.95	TR20	397.00	392.67	395.37	394.77	395.53	0.003103	1.80	220.49	149.28	0.47
Baganza	28617.95	TR50	542.00	392.67	395.68	394.98	395.89	0.003118	2.03	267.56	152.28	0.49
Baganza	28617.95	TR100	676.00	392.67	395.94	395.16	396.19	0.003107	2.20	307.87	154.81	0.50
Baganza	28617.95	TR200	835.00	392.67	396.23	395.36	396.51	0.003062	2.37	352.80	156.73	0.50
Baganza	28617		Bridge									
Baganza	28605.33	TR5	227.00	392.37	394.30	394.30	394.66	0.017634	2.65	85.74	119.50	1.00
Baganza	28605.33	TR10	306.00	392.37	394.48	394.48	394.88	0.017798	2.80	109.35	141.31	1.02
Baganza	28605.33	TR20	397.00	392.37	394.64	394.64	395.10	0.016503	3.03	131.19	142.44	1.01
Baganza	28605.33	TR50	542.00	392.37	394.86	394.86	395.42	0.015195	3.33	162.83	143.97	1.00
Baganza	28605.33	TR100	676.00	392.37	395.04	395.04	395.69	0.014414	3.57	189.56	145.20	1.00
Baganza	28605.33	TR200	835.00	392.37	395.24	395.24	395.98	0.013845	3.82	218.38	146.10	1.00
Baganza	28594.81	TR5	227.00	392.03	394.23	394.14	394.48	0.012131	2.21	102.59	141.70	0.83
Baganza	28594.81	TR10	306.00	392.03	394.37	394.29	394.69	0.012254	2.50	122.64	142.47	0.86
Baganza	28594.81	TR20	397.00	392.03	394.51	394.44	394.91	0.012510	2.78	142.82	143.24	0.89
Baganza	28594.81	TR50	542.00	392.03	394.71	394.65	395.22	0.013020	3.18	170.63	144.31	0.93
Baganza	28594.81	TR100	676.00	392.03	394.86	394.84	395.49	0.013710	3.52	192.22	145.57	0.98
Baganza	28594.81	TR200	835.00	392.03	395.04	395.04	395.78	0.013639	3.81	219.34	148.98	0.99
Baganza	28500	TR5	227.00	391.19	392.77	392.77	393.12	0.017378	2.62	86.59	121.73	0.99
Baganza	28500	TR10	306.00	391.19	392.94	392.94	393.35	0.016692	2.82	108.35	132.13	1.00
Baganza	28500	TR20	397.00	391.19	393.10	393.10	393.57	0.015976	3.04	130.80	138.52	1.00
Baganza	28500	TR50	542.00	391.19	393.33	393.33	393.90	0.015057	3.34	162.07	141.94	1.00

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	28500	TR100	676.00	391.19	393.52	393.52	394.16	0.014185	3.56	190.65	154.28	0.99
Baganza	28500	TR200	835.00	391.19	393.86	393.86	394.45	0.012547	3.41	253.10	243.53	0.94
Baganza	28400	TR5	227.00	389.21	390.79	390.79	391.14	0.017527	2.63	86.40	121.54	0.99
Baganza	28400	TR10	306.00	389.21	390.96	390.96	391.37	0.016827	2.83	108.01	131.60	1.00
Baganza	28400	TR20	397.00	389.21	391.13	391.13	391.60	0.016138	3.03	130.85	139.39	1.00
Baganza	28400	TR50	542.00	389.21	391.35	391.35	391.92	0.015208	3.33	162.77	144.19	1.00
Baganza	28400	TR100	676.00	389.21	391.54	391.54	392.19	0.014438	3.57	189.58	145.71	1.00
Baganza	28400	TR200	835.00	389.21	391.74	391.74	392.48	0.013729	3.80	219.51	147.39	0.99
Baganza	28300	TR5	227.00	387.44	389.02	389.02	389.35	0.017853	2.54	89.26	134.08	0.99
Baganza	28300	TR10	306.00	387.44	389.19	389.19	389.57	0.016976	2.74	111.78	144.75	0.99
Baganza	28300	TR20	397.00	387.44	389.34	389.34	389.79	0.016102	2.97	133.64	147.12	0.99
Baganza	28300	TR50	542.00	387.44	389.55	389.55	390.10	0.015170	3.27	165.50	150.50	1.00
Baganza	28300	TR100	676.00	387.44	389.73	389.73	390.36	0.014621	3.51	192.49	153.31	1.00
Baganza	28300	TR200	835.00	387.44	389.93	389.93	390.64	0.014006	3.74	223.15	156.44	1.00
Baganza	28200	TR5	227.00	385.69	387.03	387.02	387.39	0.016271	2.66	85.29	111.58	0.97
Baganza	28200	TR10	306.00	385.69	387.20	387.20	387.63	0.016308	2.91	105.12	120.45	0.99
Baganza	28200	TR20	397.00	385.69	387.44	387.44	387.87	0.016329	2.90	136.98	158.12	0.99
Baganza	28200	TR50	542.00	385.69	387.66	387.66	388.15	0.015773	3.11	174.03	175.69	1.00
Baganza	28200	TR100	676.00	385.69	387.83	387.83	388.39	0.015105	3.30	204.89	183.64	1.00
Baganza	28200	TR200	835.00	385.69	388.02	388.02	388.64	0.014351	3.48	240.35	196.30	0.99
Baganza	28100	TR5	227.00	383.78	385.36	385.36	385.64	0.018897	2.36	96.24	168.84	1.00
Baganza	28100	TR10	306.00	383.78	385.49	385.49	385.83	0.017793	2.56	119.53	177.23	1.00
Baganza	28100	TR20	397.00	383.78	385.62	385.62	386.02	0.017183	2.79	142.20	180.33	1.00
Baganza	28100	TR50	542.00	383.78	385.81	385.81	386.29	0.015908	3.06	177.25	185.02	1.00
Baganza	28100	TR100	676.00	383.78	385.97	385.97	386.51	0.015190	3.26	207.66	190.59	1.00
Baganza	28100	TR200	835.00	383.78	386.14	386.14	386.76	0.014547	3.48	239.99	192.96	1.00
Baganza	28000	TR5	227.00	382.42	383.58	383.53	383.80	0.015186	2.09	108.78	194.87	0.89
Baganza	28000	TR10	306.00	382.42	383.70	383.66	383.97	0.014251	2.29	133.37	197.59	0.89
Baganza	28000	TR20	397.00	382.42	383.83	383.78	384.15	0.013694	2.50	158.59	200.08	0.90
Baganza	28000	TR50	542.00	382.42	384.00	383.95	384.40	0.013846	2.83	191.62	202.93	0.93
Baganza	28000	TR100	676.00	382.42	384.13	384.10	384.61	0.014057	3.09	218.77	205.21	0.96
Baganza	28000	TR200	835.00	382.42	384.27	384.25	384.85	0.014360	3.37	247.57	206.90	0.98
Baganza	27900	TR5	227.00	380.30	382.05	382.00	382.29	0.015075	2.17	104.69	175.99	0.90
Baganza	27900	TR10	306.00	380.30	382.16	382.14	382.47	0.015875	2.46	124.51	180.26	0.94
Baganza	27900	TR20	397.00	380.30	382.27	382.26	382.66	0.016392	2.75	144.40	180.94	0.98
Baganza	27900	TR50	542.00	380.30	382.45	382.45	382.93	0.015814	3.06	177.24	184.28	1.00
Baganza	27900	TR100	676.00	380.30	382.61	382.61	383.15	0.015207	3.28	206.04	187.19	1.00
Baganza	27900	TR200	835.00	380.30	382.78	382.78	383.40	0.014566	3.50	238.70	196.62	1.00
Baganza	27800	TR5	227.00	378.99	380.32	380.32	380.60	0.019075	2.33	97.62	176.37	1.00
Baganza	27800	TR10	306.00	378.99	380.46	380.46	380.78	0.018058	2.51	122.04	188.97	1.00
Baganza	27800	TR20	397.00	378.99	380.58	380.58	380.96	0.017544	2.73	145.22	193.26	1.01
Baganza	27800	TR50	542.00	378.99	380.76	380.76	381.22	0.016100	2.98	181.77	199.07	1.00
Baganza	27800	TR100	676.00	378.99	380.91	380.91	381.43	0.015370	3.20	211.34	201.17	1.00
Baganza	27800	TR200	835.00	378.99	381.07	381.07	381.67	0.014849	3.43	243.43	203.31	1.00
Baganza	27700	TR5	227.00	377.22	378.52	378.48	378.79	0.014670	2.26	100.23	154.34	0.90
Baganza	27700	TR10	306.00	377.22	378.67	378.62	378.98	0.014328	2.47	123.64	163.70	0.91
Baganza	27700	TR20	397.00	377.22	378.84	378.79	379.18	0.013932	2.58	153.98	194.90	0.91
Baganza	27700	TR50	542.00	377.22	378.98	378.98	379.44	0.015268	2.99	182.82	207.33	0.98
Baganza	27700	TR100	676.00	377.22	379.14	379.14	379.65	0.014176	3.18	216.45	213.67	0.96
Baganza	27700	TR200	835.00	377.22	379.30	379.30	379.88	0.013698	3.40	251.46	219.46	0.97
Baganza	27650	TR5	227.00	376.41	377.81	377.71	378.06	0.014445	2.22	102.63	165.87	0.89
Baganza	27650	TR10	306.00	376.41	377.93	377.90	378.24	0.015223	2.49	124.05	177.70	0.93
Baganza	27650	TR20	397.00	376.41	378.05	378.05	378.43	0.016079	2.76	145.73	193.88	0.98
Baganza	27650	TR50	542.00	376.41	378.25	378.25	378.69	0.014581	2.97	187.74	220.37	0.96
Baganza	27650	TR100	676.00	376.41	378.40	378.40	378.90	0.013927	3.17	221.39	231.56	0.96
Baganza	27650	TR200	835.00	376.41	378.59	378.59	379.12	0.012240	3.28	268.38	251.94	0.92
Baganza	27600	TR5	227.00	375.45	376.97	376.97	377.25	0.018200	2.35	97.00	171.51	0.98
Baganza	27600	TR10	306.00	375.45	377.10	377.10	377.44	0.017229	2.60	118.89	175.01	0.99
Baganza	27600	TR20	397.00	375.45	377.24	377.24	377.63	0.015902	2.80	143.96	186.11	0.98
Baganza	27600	TR50	542.00	375.45	377.43	377.43	377.90	0.014462	3.05	182.42	199.20	0.96
Baganza	27600	TR100	676.00	375.45	377.59	377.59	378.12	0.013900	3.27	214.21	208.66	0.96
Baganza	27600	TR200	835.00	375.45	377.76	377.76	378.35	0.013237	3.47	250.60	231.99	0.96
Baganza	27550	TR5	227.00	374.90	376.10	376.08	376.35	0.017202	2.21	102.65	185.14	0.95
Baganza	27550	TR10	306.00	374.90	376.20	376.20	376.52	0.017744	2.51	121.96	186.29	0.99
Baganza	27550	TR20	397.00	374.90	376.32	376.32	376.71	0.016986	2.74	144.89	187.65	1.00
Baganza	27550	TR50	542.00	374.90	376.51	376.51	376.97	0.015830	3.02	179.27	189.94	0.99
Baganza	27550	TR100	676.00	374.90	376.66	376.66	377.19	0.015280	3.25	207.68	191.81	1.00
Baganza	27550	TR200	835.00	374.90	376.82	376.82	377.44	0.014649	3.48	240.06	194.43	1.00
Baganza	27500	TR5	227.00	374.00	375.17	375.17	375.45	0.018973	2.32	97.74	176.26	1.00
Baganza	27500	TR10	306.00	374.00	375.30	375.30	375.63	0.018117	2.54	120.66	184.14	1.00
Baganza	27500	TR20	397.00	374.00	375.43	375.43	375.81	0.017299	2.73	145.66	192.68	1.00

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	27500	TR50	542.00	374.00	375.63	375.61	376.07	0.014988	2.93	184.95	197.03	0.97
Baganza	27500	TR100	676.00	374.00	375.83	375.75	376.29	0.012547	3.02	223.64	198.98	0.91
Baganza	27500	TR200	835.00	374.00	376.03	375.92	376.54	0.011152	3.16	264.08	200.99	0.88
Baganza	27400	TR5	227.00	372.26	373.57	373.47	373.85	0.011230	2.35	96.76	115.82	0.82
Baganza	27400	TR10	306.00	372.26	373.73	373.62	374.09	0.011401	2.64	115.71	116.97	0.85
Baganza	27400	TR20	397.00	372.26	373.89	373.80	374.33	0.011922	2.96	133.99	118.08	0.89
Baganza	27400	TR50	542.00	372.26	374.10	374.05	374.69	0.012759	3.41	159.09	119.57	0.94
Baganza	27400	TR100	676.00	372.26	374.26	374.25	374.99	0.013540	3.77	179.16	120.76	0.99
Baganza	27400	TR200	835.00	372.26	374.48	374.48	375.32	0.013361	4.07	205.22	122.23	1.00
Baganza	27300	TR5	227.00	370.81	372.15	372.14	372.50	0.016616	2.62	86.60	117.74	0.98
Baganza	27300	TR10	306.00	370.81	372.31	372.31	372.73	0.016361	2.89	105.70	122.35	0.99
Baganza	27300	TR20	397.00	370.81	372.47	372.47	372.98	0.015613	3.15	126.14	124.33	1.00
Baganza	27300	TR50	542.00	370.81	372.71	372.71	373.32	0.014643	3.47	156.12	126.51	1.00
Baganza	27300	TR100	676.00	370.81	372.91	372.91	373.62	0.013944	3.71	181.97	128.36	1.00
Baganza	27300	TR200	835.00	370.81	373.13	373.13	373.94	0.013333	3.96	210.64	130.26	1.00
Baganza	27200	TR5	227.00	369.14	370.44	370.44	370.78	0.017731	2.58	88.08	129.14	1.00
Baganza	27200	TR10	306.00	369.14	370.59	370.59	371.00	0.016647	2.84	107.82	130.45	1.00
Baganza	27200	TR20	397.00	369.14	370.75	370.75	371.24	0.015674	3.08	128.90	131.82	0.99
Baganza	27200	TR50	542.00	369.14	370.98	370.98	371.57	0.014844	3.41	158.89	133.76	1.00
Baganza	27200	TR100	676.00	369.14	371.17	371.17	371.85	0.014237	3.66	184.61	135.40	1.00
Baganza	27200	TR200	835.00	369.14	371.39	371.39	372.16	0.013545	3.90	213.90	137.24	1.00
Baganza	27100	TR5	227.00	367.57	368.89	368.84	369.19	0.013943	2.45	92.80	122.56	0.90
Baganza	27100	TR10	306.00	367.57	369.05	369.01	369.42	0.013569	2.70	113.88	134.30	0.91
Baganza	27100	TR20	397.00	367.57	369.19	369.17	369.65	0.013934	3.02	133.24	138.93	0.95
Baganza	27100	TR50	542.00	367.57	369.40	369.40	369.98	0.013763	3.39	163.51	145.41	0.97
Baganza	27100	TR100	676.00	367.57	369.61	369.61	370.25	0.012715	3.60	194.33	160.98	0.95
Baganza	27100	TR200	835.00	367.57	369.91	369.91	370.55	0.009956	3.60	249.87	202.08	0.87
Baganza	27000	TR5	227.00	366.35	367.67	367.56	367.92	0.011627	2.21	102.76	138.38	0.82
Baganza	27000	TR10	306.00	366.35	367.81	367.73	368.13	0.012334	2.51	122.79	159.00	0.86
Baganza	27000	TR20	397.00	366.35	367.96	367.91	368.34	0.012407	2.75	148.04	186.05	0.89
Baganza	27000	TR50	542.00	366.35	368.20	368.15	368.62	0.010884	2.91	196.90	210.13	0.85
Baganza	27000	TR100	676.00	366.35	368.31	368.31	368.83	0.012147	3.25	221.02	213.33	0.92
Baganza	27000	TR200	835.00	366.35	368.48	368.48	369.06	0.011959	3.49	255.59	214.71	0.93
Baganza	26900	TR5	227.00	364.74	366.19	366.19	366.57	0.015944	2.73	84.91	113.93	0.97
Baganza	26900	TR10	306.00	364.74	366.38	366.38	366.81	0.014081	2.93	108.37	128.70	0.94
Baganza	26900	TR20	397.00	364.74	366.56	366.56	367.05	0.013266	3.16	131.65	134.39	0.94
Baganza	26900	TR50	542.00	364.74	366.77	366.77	367.39	0.013742	3.58	161.50	151.01	0.98
Baganza	26900	TR100	676.00	364.74	367.06	367.06	367.65	0.010456	3.54	210.62	173.67	0.88
Baganza	26900	TR200	835.00	364.74	367.25	367.25	367.92	0.010396	3.80	243.61	176.07	0.90
Baganza	26800	TR5	227.00	363.44	364.74	364.66	365.02	0.012803	2.34	96.88	128.07	0.86
Baganza	26800	TR10	306.00	363.44	364.87	364.82	365.24	0.013594	2.68	114.06	128.65	0.91
Baganza	26800	TR20	397.00	363.44	365.01	364.98	365.47	0.014114	3.01	132.01	129.25	0.95
Baganza	26800	TR50	542.00	363.44	365.21	365.21	365.81	0.014633	3.44	157.62	130.05	0.99
Baganza	26800	TR100	676.00	363.44	365.41	365.41	366.10	0.013878	3.70	183.02	130.75	0.99
Baganza	26800	TR200	835.00	363.44	365.62	365.62	366.42	0.013250	3.97	210.93	131.48	0.99
Baganza	26700	TR5	227.00	361.90	363.15	363.15	363.52	0.017863	2.68	84.99	119.17	1.01
Baganza	26700	TR10	306.00	361.90	363.31	363.31	363.75	0.016391	2.94	104.51	120.19	1.00
Baganza	26700	TR20	397.00	361.90	363.48	363.48	364.00	0.015366	3.20	124.81	120.85	1.00
Baganza	26700	TR50	542.00	361.90	363.73	363.73	364.36	0.014209	3.54	154.39	121.36	0.99
Baganza	26700	TR100	676.00	361.90	363.93	363.93	364.66	0.013501	3.80	179.29	121.68	0.99
Baganza	26700	TR200	835.00	361.90	364.15	364.15	365.00	0.013116	4.10	205.61	122.02	1.00
Baganza	26600	TR5	227.00	360.29	361.69	361.55	361.97	0.010152	2.35	96.60	106.57	0.79
Baganza	26600	TR10	306.00	360.29	361.87	361.73	362.22	0.010097	2.64	115.97	106.94	0.81
Baganza	26600	TR20	397.00	360.29	362.06	361.90	362.49	0.009932	2.91	136.46	107.39	0.82
Baganza	26600	TR50	542.00	360.29	362.34	362.16	362.88	0.009654	3.26	166.21	108.16	0.84
Baganza	26600	TR100	676.00	360.29	362.57	362.38	363.20	0.009439	3.54	191.43	108.82	0.85
Baganza	26600	TR200	835.00	360.29	362.83	362.63	363.57	0.009099	3.80	220.25	109.60	0.85
Baganza	26500	TR5	227.00	359.08	360.26	360.26	360.71	0.016079	2.97	77.00	85.94	0.99
Baganza	26500	TR10	306.00	359.08	360.46	360.46	361.00	0.015067	3.27	94.36	86.95	0.99
Baganza	26500	TR20	397.00	359.08	360.67	360.67	361.31	0.014298	3.55	112.58	87.99	0.99
Baganza	26500	TR50	542.00	359.08	360.97	360.97	361.75	0.013435	3.92	139.43	90.17	1.00
Baganza	26500	TR100	676.00	359.08	361.22	361.22	362.12	0.012662	4.21	162.44	90.88	0.99
Baganza	26500	TR200	835.00	359.08	361.50	361.50	362.52	0.012084	4.51	187.50	91.65	0.99
Baganza	26400	TR5	227.00	357.34	358.66	358.65	359.08	0.016011	2.86	79.45	92.12	0.98
Baganza	26400	TR10	306.00	357.34	358.84	358.84	359.36	0.015461	3.18	96.23	92.65	0.99
Baganza	26400	TR20	397.00	357.34	359.04	359.04	359.65	0.014577	3.47	114.76	93.24	0.99
Baganza	26400	TR50	542.00	357.34	359.33	359.33	360.08	0.013652	3.84	141.56	94.08	0.99
Baganza	26400	TR100	676.00	357.34	359.57	359.57	360.44	0.013024	4.13	164.42	94.80	0.99
Baganza	26400	TR200	835.00	357.34	359.83	359.83	360.83	0.012439	4.43	189.67	95.58	0.99
Baganza	26300	TR5	227.00	355.61	357.34	357.26	357.67	0.012371	2.56	88.78	100.45	0.87
Baganza	26300	TR10	306.00	355.61	357.51	357.44	357.94	0.012661	2.90	105.65	100.90	0.90

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	26300	TR20	397.00	355.61	357.68	357.62	358.21	0.013058	3.24	122.59	101.34	0.94
Baganza	26300	TR50	542.00	355.61	357.92	357.90	358.61	0.013347	3.69	147.19	101.97	0.98
Baganza	26300	TR100	676.00	355.61	358.12	358.12	358.95	0.013459	4.03	168.00	102.51	1.00
Baganza	26300	TR200	835.00	355.61	358.38	358.38	359.32	0.012653	4.30	194.81	103.20	0.99
Baganza	26200	TR5	227.00	354.48	355.84	355.84	356.26	0.016313	2.90	78.40	91.05	0.99
Baganza	26200	TR10	306.00	354.48	356.02	356.02	356.55	0.015398	3.21	95.54	91.55	1.00
Baganza	26200	TR20	397.00	354.48	356.23	356.23	356.84	0.014333	3.48	114.30	92.09	0.99
Baganza	26200	TR50	542.00	354.48	356.52	356.52	357.27	0.013398	3.86	140.93	92.86	0.99
Baganza	26200	TR100	676.00	354.48	356.76	356.76	357.64	0.012811	4.16	163.43	93.50	0.99
Baganza	26200	TR200	835.00	354.48	357.03	357.03	358.03	0.012141	4.45	189.00	94.23	0.99
Baganza	26100	TR5	227.00	352.72	354.23	354.20	354.67	0.014326	2.92	77.65	79.96	0.95
Baganza	26100	TR10	306.00	352.72	354.40	354.40	354.97	0.015410	3.35	91.44	81.13	1.01
Baganza	26100	TR20	397.00	352.72	354.64	354.64	355.29	0.014500	3.59	110.54	84.20	1.00
Baganza	26100	TR50	542.00	352.72	354.99	354.99	355.73	0.013859	3.81	142.24	95.84	1.00
Baganza	26100	TR100	676.00	352.72	355.24	355.24	356.08	0.013230	4.05	166.73	98.80	1.00
Baganza	26100	TR200	835.00	352.72	355.52	355.52	356.46	0.012754	4.28	194.93	103.45	1.00
Baganza	26000	TR5	227.00	351.30	352.72	352.72	353.11	0.017005	2.78	81.56	103.18	1.00
Baganza	26000	TR10	306.00	351.30	352.90	352.90	353.37	0.015978	3.05	100.39	106.47	1.00
Baganza	26000	TR20	397.00	351.30	353.08	353.08	353.64	0.014936	3.29	120.89	109.50	0.99
Baganza	26000	TR50	542.00	351.30	353.35	353.34	354.02	0.013765	3.62	150.27	111.89	0.99
Baganza	26000	TR100	676.00	351.30	353.57	353.56	354.34	0.013076	3.89	174.75	113.21	0.98
Baganza	26000	TR200	835.00	351.30	353.81	353.81	354.69	0.012470	4.17	201.91	114.67	0.98
Baganza	25900	TR5	227.00	349.43	351.32	351.18	351.69	0.011071	2.69	84.31	80.76	0.84
Baganza	25900	TR10	306.00	349.43	351.55	351.42	351.99	0.011922	2.93	104.35	92.97	0.88
Baganza	25900	TR20	397.00	349.43	351.79	351.69	352.28	0.011862	3.11	127.76	103.94	0.89
Baganza	25900	TR50	542.00	349.43	352.00	351.97	352.66	0.013284	3.61	149.99	105.86	0.97
Baganza	25900	TR100	676.00	349.43	352.19	352.19	352.99	0.013814	3.98	170.00	107.44	1.01
Baganza	25900	TR200	835.00	349.43	352.44	352.44	353.35	0.012907	4.23	197.54	109.58	1.00
Baganza	25800	TR5	227.00	348.00	349.92	349.92	350.36	0.016277	2.93	77.36	87.37	0.99
Baganza	25800	TR10	306.00	348.00	350.12	350.12	350.65	0.015319	3.21	95.27	89.93	0.99
Baganza	25800	TR20	397.00	348.00	350.43	350.43	350.93	0.015566	3.14	126.77	125.88	0.99
Baganza	25800	TR50	542.00	348.00	350.70	350.70	351.26	0.014931	3.32	163.65	144.81	0.99
Baganza	25800	TR100	676.00	348.00	350.88	350.88	351.53	0.014228	3.56	190.18	146.01	0.99
Baganza	25800	TR200	835.00	348.00	351.08	351.08	351.82	0.013638	3.82	219.44	147.39	0.99
Baganza	25700	TR5	227.00	347.01	348.35	348.28	348.75	0.012927	2.80	80.98	82.47	0.90
Baganza	25700	TR10	306.00	347.01	348.53	348.49	349.04	0.013547	3.18	96.25	83.99	0.95
Baganza	25700	TR20	397.00	347.01	348.70	348.70	349.35	0.014528	3.58	110.87	85.34	1.00
Baganza	25700	TR50	542.00	347.01	349.14	349.14	349.73	0.014833	3.40	159.62	135.45	1.00
Baganza	25700	TR100	676.00	347.01	349.34	349.34	350.01	0.014113	3.61	187.22	139.62	0.99
Baganza	25700	TR200	835.00	347.01	349.54	349.54	350.31	0.013569	3.89	215.16	140.15	1.00
Baganza	25600	TR5	227.00	345.81	347.02	346.96	347.40	0.013980	2.75	82.65	92.00	0.92
Baganza	25600	TR10	306.00	345.81	347.31	347.26	347.66	0.014081	2.64	115.80	137.38	0.92
Baganza	25600	TR20	397.00	345.81	347.46	347.41	347.89	0.013985	2.91	136.37	139.16	0.94
Baganza	25600	TR50	542.00	345.81	347.65	347.64	348.21	0.014701	3.33	162.98	141.60	0.99
Baganza	25600	TR100	676.00	345.81	347.83	347.83	348.48	0.014294	3.58	188.79	144.47	1.00
Baganza	25600	TR200	835.00	345.81	348.03	348.03	348.78	0.013566	3.83	218.58	146.56	0.99
Baganza	25500	TR5	227.00	343.75	345.63	345.58	345.95	0.015129	2.50	90.72	123.15	0.93
Baganza	25500	TR10	306.00	343.75	345.77	345.76	346.17	0.015814	2.79	109.66	130.65	0.97
Baganza	25500	TR20	397.00	343.75	345.93	345.93	346.40	0.015791	3.06	129.88	134.84	0.99
Baganza	25500	TR50	542.00	343.75	346.16	346.16	346.73	0.014935	3.34	162.31	142.14	1.00
Baganza	25500	TR100	676.00	343.75	346.34	346.34	347.00	0.014157	3.59	188.53	143.51	0.99
Baganza	25500	TR200	835.00	343.75	346.55	346.55	347.30	0.013414	3.84	217.93	145.02	0.99
Baganza	25400	TR5	227.00	342.90	344.25	344.18	344.51	0.013721	2.25	101.02	150.06	0.87
Baganza	25400	TR10	306.00	342.90	344.39	344.33	344.71	0.013599	2.50	122.43	153.99	0.89
Baganza	25400	TR20	397.00	342.90	344.52	344.48	344.91	0.013953	2.77	143.17	160.20	0.93
Baganza	25400	TR50	542.00	342.90	344.69	344.69	345.21	0.014628	3.18	171.11	164.66	0.98
Baganza	25400	TR100	676.00	342.90	344.86	344.86	345.46	0.014109	3.43	198.30	165.78	0.98
Baganza	25400	TR200	835.00	342.90	345.04	345.04	345.73	0.013694	3.70	227.94	167.00	0.99
Baganza	25300	TR5	227.00	341.31	342.77	342.73	343.08	0.014760	2.48	91.35	123.05	0.92
Baganza	25300	TR10	306.00	341.31	342.95	342.90	343.31	0.014433	2.66	114.89	137.13	0.93
Baganza	25300	TR20	397.00	341.31	343.11	343.06	343.54	0.013618	2.90	136.97	137.99	0.93
Baganza	25300	TR50	542.00	341.31	343.35	343.28	343.86	0.012391	3.18	170.43	139.30	0.92
Baganza	25300	TR100	676.00	341.31	343.56	343.47	344.14	0.011331	3.37	200.52	140.46	0.90
Baganza	25300	TR200	835.00	341.31	343.78	343.67	344.45	0.010933	3.62	230.78	141.60	0.90
Baganza	25200	TR5	227.00	339.91	341.62	341.49	341.86	0.010280	2.19	103.87	129.04	0.78
Baganza	25200	TR10	306.00	339.91	341.77	341.65	342.08	0.010551	2.48	123.49	129.50	0.81
Baganza	25200	TR20	397.00	339.91	341.92	341.80	342.31	0.011068	2.78	142.55	129.95	0.85
Baganza	25200	TR50	542.00	339.91	342.11	342.02	342.64	0.012097	3.23	167.65	130.54	0.91
Baganza	25200	TR100	676.00	339.91	342.25	342.23	342.92	0.013202	3.62	186.61	130.93	0.97
Baganza	25200	TR200	835.00	339.91	342.44	342.44	343.24	0.013416	3.96	211.05	131.43	1.00
Baganza	25100	TR5	227.00	338.97	340.18	340.18	340.54	0.017483	2.66	85.23	117.74	1.00



HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	25100	TR10	306.00	338.97	340.38	340.38	340.77	0.016896	2.73	111.96	145.47	0.99
Baganza	25100	TR20	397.00	338.97	340.53	340.53	340.98	0.016296	2.96	134.16	150.77	1.00
Baganza	25100	TR50	542.00	338.97	340.75	340.75	341.28	0.015341	3.24	167.57	157.67	1.00
Baganza	25100	TR100	676.00	338.97	340.92	340.92	341.54	0.014558	3.47	195.13	159.40	1.00
Baganza	25100	TR200	835.00	338.97	341.12	341.12	341.81	0.013791	3.71	226.04	161.36	0.99
Baganza	25000	TR5	227.00	337.07	338.61	338.50	338.89	0.011580	2.32	97.93	122.15	0.83
Baganza	25000	TR10	306.00	337.07	338.80	338.69	339.12	0.012405	2.49	122.90	145.00	0.86
Baganza	25000	TR20	397.00	337.07	338.97	338.87	339.34	0.011465	2.69	147.56	147.92	0.85
Baganza	25000	TR50	542.00	337.07	339.15	339.08	339.64	0.012252	3.11	174.87	150.60	0.91
Baganza	25000	TR100	676.00	337.07	339.31	339.26	339.90	0.012522	3.42	199.01	152.93	0.94
Baganza	25000	TR200	835.00	337.07	339.49	339.46	340.19	0.012549	3.72	226.72	155.57	0.96
Baganza	24935	TR5	227.00	335.96	337.63	337.63	338.02	0.015759	2.79	83.65	115.81	0.97
Baganza	24935	TR10	306.00	335.96	337.82	337.82	338.26	0.013985	3.00	106.17	120.11	0.94
Baganza	24935	TR20	397.00	335.96	337.98	337.98	338.52	0.013873	3.30	127.16	134.55	0.96
Baganza	24935	TR50	542.00	335.96	338.27	338.27	338.86	0.011890	3.52	165.99	142.13	0.92
Baganza	24935	TR100	676.00	335.96	338.47	338.47	339.13	0.011228	3.74	195.94	144.54	0.92
Baganza	24935	TR200	835.00	335.96	338.69	338.69	339.43	0.010926	3.99	226.70	145.46	0.92
Baganza	24900	TR5	227.00	335.84	337.10	337.00	337.36	0.010352	2.28	102.66	132.45	0.79
Baganza	24900	TR10	306.00	335.84	337.26	337.16	337.58	0.010424	2.56	123.70	134.59	0.81
Baganza	24900	TR20	397.00	335.84	337.42	337.32	337.81	0.010564	2.83	145.18	136.75	0.84
Baganza	24900	TR50	542.00	335.84	337.64	337.55	338.14	0.010570	3.18	176.45	138.62	0.86
Baganza	24900	TR100	676.00	335.84	337.83	337.74	338.42	0.010552	3.46	202.72	140.00	0.88
Baganza	24900	TR200	835.00	335.84	338.05	337.94	338.72	0.010348	3.72	232.80	141.55	0.89
Baganza	24800	TR5	227.00	334.14	335.65	335.65	336.05	0.017162	2.79	81.35	103.25	1.00
Baganza	24800	TR10	306.00	334.14	335.84	335.84	336.30	0.016177	2.99	102.21	111.64	1.00
Baganza	24800	TR20	397.00	334.14	336.02	336.02	336.56	0.015103	3.24	122.54	113.94	0.99
Baganza	24800	TR50	542.00	334.14	336.28	336.28	336.93	0.014006	3.58	152.11	118.20	0.99
Baganza	24800	TR100	676.00	334.14	336.49	336.49	337.24	0.013200	3.83	177.86	119.29	0.98
Baganza	24800	TR200	835.00	334.14	336.72	336.72	337.58	0.012704	4.10	205.33	120.53	0.99
Baganza	24700	TR5	227.00	332.51	334.36	333.99	334.58	0.005326	2.12	107.22	85.30	0.60
Baganza	24700	TR10	306.00	332.51	334.61	334.19	334.89	0.005394	2.37	128.85	87.04	0.62
Baganza	24700	TR20	397.00	332.51	334.86	334.40	335.21	0.005445	2.62	151.46	88.95	0.64
Baganza	24700	TR50	542.00	332.51	335.21	334.72	335.66	0.005524	2.97	184.26	102.22	0.66
Baganza	24700	TR100	676.00	332.51	335.49	334.97	336.02	0.005535	3.22	214.94	112.26	0.68
Baganza	24700	TR200	835.00	332.51	335.81	335.28	336.40	0.005395	3.45	251.70	117.41	0.68
Baganza	24600	TR5	227.00	330.82	333.48	333.48	333.95	0.007620	3.21	85.47	90.54	0.76
Baganza	24600	TR10	306.00	330.82	333.72	333.72	334.24	0.007857	3.50	107.34	92.49	0.78
Baganza	24600	TR20	397.00	330.82	333.93	333.93	334.54	0.008411	3.83	126.90	93.38	0.82
Baganza	24600	TR50	542.00	330.82	334.22	334.22	334.96	0.008890	4.26	154.12	94.62	0.86
Baganza	24600	TR100	676.00	330.82	334.46	334.46	335.31	0.009097	4.59	177.16	95.44	0.88
Baganza	24600	TR200	835.00	330.82	334.71	334.71	335.69	0.009389	4.94	201.36	96.22	0.91
Baganza	24500	TR5	227.00	329.81	331.16	331.01	331.37	0.009893	2.04	111.40	149.84	0.75
Baganza	24500	TR10	306.00	329.81	331.30	331.17	331.57	0.010498	2.31	132.21	153.57	0.80
Baganza	24500	TR20	397.00	329.81	331.40	331.32	331.77	0.012269	2.67	148.42	155.96	0.88
Baganza	24500	TR50	542.00	329.81	331.56	331.53	332.06	0.014006	3.13	173.22	159.99	0.96
Baganza	24500	TR100	676.00	329.81	331.70	331.70	332.31	0.014531	3.45	196.53	163.30	0.99
Baganza	24500	TR200	835.00	329.81	331.89	331.89	332.58	0.013861	3.69	226.99	167.12	0.99
Baganza	24440	TR5	227.00	328.88	330.32	330.32	330.64	0.015254	2.57	92.91	148.44	0.94
Baganza	24440	TR10	306.00	328.88	330.49	330.49	330.86	0.013506	2.75	121.51	187.49	0.91
Baganza	24440	TR20	397.00	328.88	330.66	330.66	331.05	0.011737	2.86	154.71	197.70	0.88
Baganza	24440	TR50	542.00	328.88	330.86	330.86	331.30	0.011347	3.13	195.84	222.97	0.88
Baganza	24440	TR100	676.00	328.88	331.01	331.01	331.51	0.010928	3.32	231.12	224.47	0.88
Baganza	24440	TR200	835.00	328.88	331.17	331.17	331.73	0.010919	3.56	266.32	225.96	0.90
Baganza	24400	TR5	227.00	328.53	329.73	329.68	329.95	0.013438	2.17	110.17	201.28	0.86
Baganza	24400	TR10	306.00	328.53	329.82	329.81	330.12	0.015121	2.51	130.04	220.63	0.93
Baganza	24400	TR20	397.00	328.53	329.94	329.94	330.29	0.014745	2.71	158.56	244.40	0.94
Baganza	24400	TR50	542.00	328.53	330.08	330.08	330.52	0.015949	3.09	193.91	280.10	1.00
Baganza	24400	TR100	676.00	328.53	330.28	330.28	330.69	0.011916	3.03	252.62	290.47	0.89
Baganza	24400	TR200	835.00	328.53	330.41	330.41	330.87	0.012026	3.26	289.21	291.74	0.91
Baganza	24360	TR5	227.00	328.14	329.07	329.07	329.31	0.019092	2.26	107.63	229.81	0.99
Baganza	24360	TR10	306.00	328.14	329.19	329.19	329.46	0.017538	2.45	134.83	243.60	0.98
Baganza	24360	TR20	397.00	328.14	329.30	329.30	329.61	0.016410	2.61	162.83	257.98	0.97
Baganza	24360	TR50	542.00	328.14	329.45	329.45	329.82	0.015414	2.83	205.47	292.14	0.97
Baganza	24360	TR100	676.00	328.14	329.60	329.60	330.00	0.013960	2.97	249.08	318.45	0.94
Baganza	24360	TR200	835.00	328.14	329.73	329.73	330.18	0.013235	3.14	292.03	324.96	0.94
Baganza	24300	TR5	227.00	326.77	328.19	328.02	328.32	0.006886	1.72	144.84	232.98	0.63
Baganza	24300	TR10	306.00	326.77	328.28	328.15	328.46	0.008156	2.00	167.18	239.38	0.70
Baganza	24300	TR20	397.00	326.77	328.41	328.26	328.63	0.008380	2.20	199.19	257.30	0.72
Baganza	24300	TR50	542.00	326.77	328.58	328.43	328.85	0.008502	2.43	244.26	273.57	0.74
Baganza	24300	TR100	676.00	326.77	328.73	328.57	329.04	0.008639	2.64	287.69	299.13	0.77
Baganza	24300	TR200	835.00	326.77	328.87	328.67	329.22	0.008594	2.82	329.93	301.21	0.78

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: BAganza (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
Baganza	24200	TR5	227.00	325.55	326.89	326.89	327.29	0.016589	2.78	81.77	112.00	0.99
Baganza	24200	TR10	306.00	325.55	327.17	327.17	327.50	0.011045	2.61	129.82	217.83	0.84
Baganza	24200	TR20	397.00	325.55	327.33	327.33	327.68	0.010353	2.75	166.81	250.90	0.83
Baganza	24200	TR50	542.00	325.55	327.52	327.52	327.90	0.009809	2.96	218.44	278.19	0.83
Baganza	24200	TR100	676.00	325.55	327.65	327.65	328.08	0.009853	3.17	256.77	285.76	0.84
Baganza	24200	TR200	835.00	325.55	327.81	327.81	328.28	0.009630	3.35	300.55	289.22	0.85
Baganza	24100	TR5	227.00	323.90	325.53	325.53	325.81	0.011945	2.42	106.06	187.27	0.85
Baganza	24100	TR10	306.00	323.90	325.67	325.67	325.98	0.012277	2.64	131.90	198.21	0.87
Baganza	24100	TR20	397.00	323.90	325.78	325.78	326.16	0.013248	2.94	155.28	210.88	0.92
Baganza	24100	TR50	542.00	323.90	326.03	326.03	326.41	0.010588	3.02	215.40	258.94	0.85
Baganza	24100	TR100	676.00	323.90	326.16	326.16	326.60	0.010913	3.26	248.10	262.58	0.88
Baganza	24100	TR200	835.00	323.90	326.30	326.30	326.80	0.011048	3.49	285.39	268.31	0.90
Baganza	24000	TR5	227.00	322.18	323.98	323.98	324.26	0.013206	2.47	101.97	175.11	0.88
Baganza	24000	TR10	306.00	322.18	324.12	324.12	324.45	0.012855	2.70	126.87	183.10	0.89
Baganza	24000	TR20	397.00	322.18	324.25	324.25	324.64	0.012711	2.93	152.74	200.47	0.91
Baganza	24000	TR50	542.00	322.18	324.49	324.49	324.90	0.010815	3.09	206.03	238.55	0.87
Baganza	24000	TR100	676.00	322.18	324.64	324.64	325.10	0.010663	3.30	241.42	240.30	0.87
Baganza	24000	TR200	835.00	322.18	324.78	324.78	325.31	0.010839	3.54	275.95	241.52	0.90
Baganza	23900	TR5	227.00	320.72	322.23	322.23	322.60	0.012546	2.80	88.87	120.36	0.89
Baganza	23900	TR10	306.00	320.72	322.43	322.43	322.84	0.011842	2.98	114.34	132.79	0.89
Baganza	23900	TR20	397.00	320.72	322.59	322.59	323.07	0.011836	3.24	136.22	134.65	0.90
Baganza	23900	TR50	542.00	320.72	322.84	322.84	323.41	0.011402	3.56	171.44	145.80	0.91
Baganza	23900	TR100	676.00	320.72	323.04	323.04	323.68	0.011245	3.81	199.76	149.27	0.92
Baganza	23900	TR200	835.00	320.72	323.25	323.25	323.96	0.010933	4.04	231.62	151.54	0.93
Baganza	23800	TR5	227.00	319.43	320.76	320.65	321.08	0.010871	2.51	90.36	95.32	0.82
Baganza	23800	TR10	306.00	319.43	320.96	320.84	321.36	0.010588	2.80	109.47	96.37	0.84
Baganza	23800	TR20	397.00	319.43	321.13	321.03	321.64	0.011220	3.14	126.29	97.29	0.88
Baganza	23800	TR50	542.00	319.43	321.37	321.31	322.04	0.012122	3.62	149.55	98.55	0.94
Baganza	23800	TR100	676.00	319.43	321.55	321.55	322.38	0.013107	4.04	167.49	99.51	0.99
Baganza	23800	TR200	835.00	319.43	321.81	321.81	322.76	0.012741	4.33	192.84	100.85	1.00
Baganza	23700	TR5	227.00	317.92	319.45	319.42	319.82	0.014895	2.68	84.83	102.99	0.94
Baganza	23700	TR10	306.00	317.92	319.60	319.60	320.08	0.015841	3.06	99.94	103.93	1.00
Baganza	23700	TR20	397.00	317.92	319.78	319.78	320.35	0.014942	3.34	119.03	105.10	1.00
Baganza	23700	TR50	542.00	317.92	320.05	320.05	320.74	0.013947	3.70	146.90	106.79	1.00
Baganza	23700	TR100	676.00	317.92	320.27	320.27	321.07	0.013101	3.97	171.46	108.20	0.99
Baganza	23700	TR200	835.00	317.92	320.53	320.53	321.44	0.012360	4.24	198.72	108.96	0.98
Baganza	23600	TR5	227.00	316.80	318.46	318.28	318.68	0.009029	2.06	110.33	136.52	0.73
Baganza	23600	TR10	306.00	316.80	318.64	318.46	318.90	0.008838	2.28	134.04	139.60	0.74
Baganza	23600	TR20	397.00	316.80	318.79	318.61	319.12	0.009382	2.56	155.12	142.31	0.78
Baganza	23600	TR50	542.00	316.80	318.99	318.84	319.43	0.009931	2.93	185.14	144.85	0.83
Baganza	23600	TR100	676.00	316.80	319.15	319.02	319.69	0.010620	3.25	208.25	147.05	0.87
Baganza	23600	TR200	835.00	316.80	319.33	319.23	319.98	0.011135	3.57	233.97	149.46	0.91
Baganza	23500	TR5	227.00	315.59	317.22	317.18	317.50	0.016048	2.35	96.49	150.28	0.94
Baganza	23500	TR10	306.00	315.59	317.34	317.34	317.70	0.017326	2.67	114.62	156.39	1.00
Baganza	23500	TR20	397.00	315.59	317.48	317.48	317.91	0.016311	2.90	136.94	157.90	0.99
Baganza	23500	TR50	542.00	315.59	317.67	317.67	318.20	0.015560	3.23	167.73	158.93	1.00
Baganza	23500	TR100	676.00	315.59	317.85	317.85	318.46	0.014533	3.45	195.84	159.86	0.99
Baganza	23500	TR200	835.00	315.59	318.03	318.03	318.73	0.013971	3.71	225.42	160.84	1.00
Baganza	23400	TR5	227.00	313.72	315.55	315.55	316.02	0.013625	3.05	76.22	104.81	0.94
Baganza	23400	TR10	306.00	313.72	315.86	315.86	316.29	0.009466	2.99	116.34	154.66	0.81
Baganza	23400	TR20	397.00	313.72	316.08	316.08	316.51	0.008412	3.10	152.89	170.47	0.79
Baganza	23400	TR50	542.00	313.72	316.30	316.30	316.81	0.008732	3.43	190.87	176.09	0.82
Baganza	23400	TR100	676.00	313.72	316.52	316.52	317.05	0.008279	3.58	232.30	193.64	0.81
Baganza	23400	TR200	835.00	313.72	316.69	316.69	317.29	0.008629	3.85	265.43	194.34	0.84
Baganza	23300	TR5	227.00	312.19	313.95	313.95	314.43	0.015488	3.10	73.67	75.78	0.99
Baganza	23300	TR10	306.00	312.19	314.19	314.19	314.75	0.013893	3.32	93.77	95.99	0.97
Baganza	23300	TR20	397.00	312.19	314.48	314.48	315.04	0.010743	3.36	126.85	126.87	0.88
Baganza	23300	TR50	542.00	312.19	314.81	314.81	315.39	0.009094	3.54	175.23	166.42	0.84
Baganza	23300	TR100	676.00	312.19	315.06	315.06	315.66	0.008142	3.65	219.43	178.30	0.81
Baganza	23300	TR200	835.00	312.19	315.26	315.26	315.93	0.008271	3.91	255.19	181.79	0.83
Baganza	23200	TR5	227.00	311.10	312.55	312.55	312.99	0.012335	2.97	80.45	97.02	0.90
Baganza	23200	TR10	306.00	311.10	312.78	312.78	313.27	0.011050	3.18	104.32	113.67	0.88
Baganza	23200	TR20	397.00	311.10	313.00	313.00	313.54	0.010183	3.37	131.64	129.81	0.86
Baganza	23200	TR50	542.00	311.10	313.31	313.31	313.90	0.009349	3.63	174.57	147.06	0.85
Baganza	23200	TR100	676.00	311.10	313.55	313.55	314.17	0.008609	3.77	212.42	176.84	0.83
Baganza	23200	TR200	835.00	311.10	313.71	313.71	314.44	0.009553	4.15	243.51	217.22	0.89
Baganza	23100	TR5	227.00	309.37	311.13	311.13	311.65	0.012962	3.21	73.14	85.17	0.93
Baganza	23100	TR10	306.00	309.37	311.51	311.51	311.94	0.008030	3.02	119.65	148.97	0.77
Baganza	23100	TR20	397.00	309.37	311.70	311.70	312.17	0.008058	3.26	147.79	151.88	0.78
Baganza	23100	TR50	542.00	309.37	311.94	311.94	312.50	0.008401	3.62	185.84	167.36	0.82
Baganza	23100	TR100	676.00	309.37	312.09	312.09	312.78	0.009711	4.09	216.35	231.43	0.89
Baganza	23100	TR200	835.00	309.37	312.43	312.43	312.99	0.006970	3.82	300.38	251.29	0.77

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	23000	TR5	227.00	307.62	309.73	309.57	310.00	0.009526	2.34	96.96	102.72	0.77
Baganza	23000	TR10	306.00	307.62	309.91	309.75	310.26	0.009691	2.63	116.33	104.80	0.80
Baganza	23000	TR20	397.00	307.62	310.07	309.94	310.53	0.010565	2.97	133.48	107.02	0.85
Baganza	23000	TR50	542.00	307.62	310.29	310.21	310.90	0.011721	3.46	156.96	109.74	0.92
Baganza	23000	TR100	676.00	307.62	310.46	310.43	311.22	0.012883	3.87	175.15	111.81	0.98
Baganza	23000	TR200	835.00	307.62	310.70	310.70	311.57	0.012348	4.13	203.74	122.84	0.98
Baganza	22900	TR5	227.00	306.64	308.49	308.47	308.86	0.014018	2.71	85.89	111.95	0.92
Baganza	22900	TR10	306.00	306.64	308.67	308.67	309.11	0.014103	2.96	107.80	127.44	0.95
Baganza	22900	TR20	397.00	306.64	308.85	308.85	309.35	0.013169	3.19	130.96	132.09	0.94
Baganza	22900	TR50	542.00	306.64	309.09	309.09	309.69	0.012497	3.52	163.26	136.07	0.94
Baganza	22900	TR100	676.00	306.64	309.29	309.29	309.97	0.012034	3.77	190.75	139.03	0.95
Baganza	22900	TR200	835.00	306.64	309.51	309.51	310.28	0.011683	4.04	220.86	142.19	0.95
Baganza	22800	TR5	227.00	305.58	307.15	307.15	307.46	0.014052	2.52	96.32	154.56	0.91
Baganza	22800	TR10	306.00	305.58	307.38	307.30	307.68	0.010113	2.51	130.84	156.78	0.80
Baganza	22800	TR20	397.00	305.58	307.51	307.44	307.88	0.010689	2.80	152.02	158.13	0.84
Baganza	22800	TR50	542.00	305.58	307.72	307.64	308.18	0.010749	3.12	185.12	162.17	0.87
Baganza	22800	TR100	676.00	305.58	307.85	307.85	308.42	0.011893	3.48	209.61	202.85	0.92
Baganza	22800	TR200	835.00	305.58	308.05	308.05	308.66	0.011092	3.65	250.93	208.43	0.91
Baganza	22700	TR5	227.00	304.08	305.82	305.70	306.17	0.010925	2.62	86.95	87.66	0.83
Baganza	22700	TR10	306.00	304.08	305.92	305.92	306.45	0.015220	3.21	96.01	96.08	0.99
Baganza	22700	TR20	397.00	304.08	306.18	306.18	306.72	0.012613	3.27	125.90	128.16	0.93
Baganza	22700	TR50	542.00	304.08	306.47	306.47	307.08	0.011195	3.53	165.45	151.88	0.91
Baganza	22700	TR100	676.00	304.08	306.76	306.76	307.36	0.009060	3.56	214.13	186.22	0.84
Baganza	22700	TR200	835.00	304.08	306.97	306.97	307.62	0.008687	3.76	255.28	190.69	0.84
Baganza	22600	TR5	227.00	302.71	304.42	304.42	304.84	0.016732	2.87	79.05	94.08	1.00
Baganza	22600	TR10	306.00	302.71	304.72	304.61	305.13	0.011492	2.84	108.26	110.50	0.87
Baganza	22600	TR20	397.00	302.71	305.04	304.84	305.43	0.008082	2.78	148.45	136.08	0.75
Baganza	22600	TR50	542.00	302.71	305.50	305.14	305.85	0.005191	2.68	224.25	190.87	0.63
Baganza	22600	TR100	676.00	302.71	305.92	305.40	306.21	0.003513	2.53	307.18	204.13	0.54
Baganza	22600	TR200	835.00	302.71	306.31	305.67	306.58	0.002728	2.48	388.06	208.66	0.49
Baganza	22565.71	TR5	227.00	302.42	304.23	303.90	304.51	0.006209	2.32	97.75	75.65	0.65
Baganza	22565.71	TR10	306.00	302.42	304.51	304.12	304.85	0.005992	2.57	119.36	83.76	0.66
Baganza	22565.71	TR20	397.00	302.42	304.81	304.36	305.20	0.005576	2.76	149.45	118.04	0.65
Baganza	22565.71	TR50	542.00	302.42	305.31	304.78	305.68	0.004293	2.79	213.74	138.51	0.59
Baganza	22565.71	TR100	676.00	302.42	305.71	305.10	306.08	0.003769	2.81	276.10	178.24	0.57
Baganza	22565.71	TR200	835.00	302.42	306.15	305.38	306.48	0.003096	2.73	358.27	200.34	0.52
Baganza	22555.7	TR5	227.00	302.35	304.18	303.82	304.45	0.005827	2.30	99.35	79.15	0.64
Baganza	22555.7	TR10	306.00	302.35	304.47	304.05	304.79	0.005557	2.53	123.11	88.82	0.64
Baganza	22555.7	TR20	397.00	302.35	304.78	304.30	305.14	0.005137	2.70	152.36	97.38	0.63
Baganza	22555.7	TR50	542.00	302.35	305.22	304.67	305.64	0.004659	2.91	199.21	120.40	0.62
Baganza	22555.7	TR100	676.00	302.35	305.62	304.94	306.04	0.004051	2.97	249.61	134.41	0.59
Baganza	22555.7	TR200	835.00	302.35	306.00	305.31	306.44	0.003782	3.10	303.21	152.48	0.58
Baganza	22555	Bridge										
Baganza	22547.69	TR5	227.00	302.40	303.74	303.71	304.22	0.014361	3.05	74.44	72.03	0.96
Baganza	22547.69	TR10	306.00	302.40	303.94	303.94	304.54	0.014760	3.44	88.87	73.09	1.00
Baganza	22547.69	TR20	397.00	302.40	304.17	304.17	304.89	0.014196	3.75	105.87	74.32	1.00
Baganza	22547.69	TR50	542.00	302.40	304.52	304.52	305.38	0.013183	4.11	131.84	76.15	1.00
Baganza	22547.69	TR100	676.00	302.40	304.80	304.80	305.79	0.012647	4.40	153.71	78.60	1.00
Baganza	22547.69	TR200	835.00	302.40	305.20	305.20	306.22	0.010597	4.48	191.21	112.64	0.94
Baganza	22537.68	TR5	227.00	302.26	303.58	303.58	304.06	0.016082	3.08	73.80	76.89	1.00
Baganza	22537.68	TR10	306.00	302.26	303.80	303.80	304.38	0.015047	3.36	91.13	79.12	1.00
Baganza	22537.68	TR20	397.00	302.26	304.03	304.03	304.70	0.014291	3.63	109.48	81.43	1.00
Baganza	22537.68	TR50	542.00	302.26	304.35	304.35	305.16	0.013511	3.97	136.38	84.69	1.00
Baganza	22537.68	TR100	676.00	302.26	304.63	304.63	305.54	0.012939	4.23	159.81	87.43	1.00
Baganza	22537.68	TR200	835.00	302.26	304.94	304.94	305.95	0.012547	4.45	187.70	93.02	1.00
Baganza	22400	TR5	227.00	299.63	301.27	301.27	301.67	0.016804	2.80	81.09	100.77	1.00
Baganza	22400	TR10	306.00	299.63	301.47	301.45	301.93	0.014929	3.03	101.14	102.32	0.97
Baganza	22400	TR20	397.00	299.63	301.67	301.67	302.20	0.015519	3.22	123.22	116.76	1.00
Baganza	22400	TR50	542.00	299.63	301.93	301.93	302.56	0.014448	3.52	153.77	120.66	1.00
Baganza	22400	TR100	676.00	299.63	302.14	302.14	302.86	0.013918	3.76	179.58	124.11	1.00
Baganza	22400	TR200	835.00	299.63	302.39	302.39	303.18	0.013424	3.95	211.58	132.55	1.00
Baganza	22300	TR5	227.00	298.63	299.95	299.87	300.27	0.011607	2.56	91.12	108.86	0.85
Baganza	22300	TR10	306.00	298.63	300.12	300.09	300.52	0.013358	2.85	110.82	127.25	0.92
Baganza	22300	TR20	397.00	298.63	300.29	300.27	300.75	0.013506	3.06	134.80	140.49	0.94
Baganza	22300	TR50	542.00	298.63	300.52	300.52	301.08	0.013196	3.42	167.20	150.48	0.96
Baganza	22300	TR100	676.00	298.63	300.73	300.73	301.35	0.011933	3.59	200.76	158.70	0.93
Baganza	22300	TR200	835.00	298.63	300.93	300.93	301.63	0.011663	3.83	232.00	160.04	0.94
Baganza	22200	TR5	227.00	297.14	298.54	298.54	298.89	0.016759	2.63	87.43	128.27	0.98
Baganza	22200	TR10	306.00	297.14	298.72	298.71	299.11	0.014828	2.78	112.28	138.08	0.95
Baganza	22200	TR20	397.00	297.14	298.87	298.87	299.34	0.014780	3.06	132.55	139.88	0.97

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	22200	TR50	542.00	297.14	299.09	299.09	299.66	0.014014	3.38	164.18	144.79	0.98
Baganza	22200	TR100	676.00	297.14	299.28	299.28	299.93	0.013348	3.63	191.64	149.37	0.98
Baganza	22200	TR200	835.00	297.14	299.49	299.49	300.22	0.012632	3.87	223.12	153.60	0.97
Baganza	22100	TR5	227.00	295.21	297.00	296.93	297.35	0.013294	2.63	86.45	99.09	0.90
Baganza	22100	TR10	306.00	295.21	297.14	297.14	297.61	0.015260	3.03	101.82	117.63	0.98
Baganza	22100	TR20	397.00	295.21	297.37	297.37	297.85	0.012744	3.10	134.04	154.91	0.92
Baganza	22100	TR50	542.00	295.21	297.64	297.64	298.16	0.011021	3.28	178.93	171.95	0.88
Baganza	22100	TR100	676.00	295.21	297.82	297.82	298.41	0.010807	3.51	209.75	174.25	0.89
Baganza	22100	TR200	835.00	295.21	298.00	298.00	298.67	0.010799	3.78	241.83	176.61	0.91
Baganza	21900	TR5	227.00	292.84	294.25	294.23	294.61	0.014104	2.69	86.68	116.43	0.92
Baganza	21900	TR10	306.00	292.84	294.48	294.48	294.85	0.011213	2.76	121.10	173.75	0.85
Baganza	21900	TR20	397.00	292.84	294.63	294.63	295.05	0.011149	2.99	148.51	184.23	0.87
Baganza	21900	TR50	542.00	292.84	294.86	294.86	295.33	0.010356	3.21	192.88	195.53	0.86
Baganza	21900	TR100	676.00	292.84	295.02	295.02	295.55	0.010562	3.46	223.48	202.68	0.88
Baganza	21900	TR200	835.00	292.84	295.20	295.20	295.79	0.010304	3.67	261.85	222.63	0.89
Baganza	21800	TR5	227.00	291.48	292.92	292.85	293.24	0.013284	2.52	90.60	119.93	0.89
Baganza	21800	TR10	306.00	291.48	293.10	293.08	293.47	0.012398	2.72	118.01	170.10	0.88
Baganza	21800	TR20	397.00	291.48	293.26	293.26	293.68	0.011910	2.93	145.73	177.38	0.89
Baganza	21800	TR50	542.00	291.48	293.47	293.47	293.96	0.011490	3.23	183.22	183.79	0.90
Baganza	21800	TR100	676.00	291.48	293.64	293.64	294.19	0.011153	3.45	215.46	191.71	0.90
Baganza	21800	TR200	835.00	291.48	293.82	293.82	294.44	0.011020	3.69	250.16	199.89	0.91
Baganza	21700	TR5	227.00	290.30	291.60	291.55	291.87	0.014158	2.28	99.56	148.76	0.89
Baganza	21700	TR10	306.00	290.30	291.71	291.70	292.07	0.015964	2.63	116.37	156.61	0.96
Baganza	21700	TR20	397.00	290.30	291.84	291.84	292.28	0.016100	2.92	136.66	159.62	0.99
Baganza	21700	TR50	542.00	290.30	292.06	292.06	292.57	0.014523	3.19	172.25	179.82	0.98
Baganza	21700	TR100	676.00	290.30	292.26	292.26	292.81	0.012451	3.31	211.83	203.19	0.93
Baganza	21700	TR200	835.00	290.30	292.46	292.46	293.05	0.011231	3.46	255.61	245.92	0.90
Baganza	21600	TR5	227.00	288.83	290.08	290.05	290.33	0.016885	2.21	102.81	183.06	0.94
Baganza	21600	TR10	306.00	288.83	290.22	290.18	290.51	0.015296	2.37	129.18	192.17	0.92
Baganza	21600	TR20	397.00	288.83	290.33	290.31	290.68	0.015606	2.63	151.23	196.11	0.95
Baganza	21600	TR50	542.00	288.83	290.49	290.49	290.94	0.016233	2.97	182.83	204.66	1.00
Baganza	21600	TR100	676.00	288.83	290.64	290.64	291.15	0.015368	3.17	213.62	213.03	0.99
Baganza	21600	TR200	835.00	288.83	290.80	290.80	291.38	0.014509	3.39	247.84	216.50	0.99
Baganza	21500	TR5	227.00	287.46	288.58	288.53	288.78	0.014271	1.98	114.53	211.44	0.86
Baganza	21500	TR10	306.00	287.46	288.67	288.64	288.94	0.016057	2.30	133.11	214.91	0.93
Baganza	21500	TR20	397.00	287.46	288.79	288.76	289.10	0.016056	2.47	160.79	233.22	0.95
Baganza	21500	TR50	542.00	287.46	288.94	288.93	289.33	0.015528	2.76	196.43	241.95	0.96
Baganza	21500	TR100	676.00	287.46	289.08	289.08	289.52	0.014404	2.94	234.55	304.16	0.95
Baganza	21500	TR200	835.00	287.46	289.25	289.25	289.71	0.012598	3.05	287.27	342.80	0.91
Baganza	21400	TR5	227.00	285.47	287.02	287.00	287.26	0.016337	2.16	106.29	198.60	0.92
Baganza	21400	TR10	306.00	285.47	287.18	287.12	287.43	0.014284	2.22	139.28	223.47	0.88
Baganza	21400	TR20	397.00	285.47	287.28	287.24	287.59	0.014398	2.46	163.56	227.03	0.91
Baganza	21400	TR50	542.00	285.47	287.43	287.41	287.82	0.014824	2.79	197.90	247.92	0.95
Baganza	21400	TR100	676.00	285.47	287.56	287.56	288.01	0.014510	3.02	231.39	258.95	0.96
Baganza	21400	TR200	835.00	285.47	287.71	287.71	288.22	0.013829	3.21	270.46	267.72	0.96
Baganza	21300	TR5	227.00	283.95	285.46	285.43	285.72	0.014366	2.27	103.38	173.86	0.89
Baganza	21300	TR10	306.00	283.95	285.56	285.56	285.90	0.016047	2.62	121.23	179.19	0.96
Baganza	21300	TR20	397.00	283.95	285.70	285.70	286.09	0.015308	2.83	146.15	186.41	0.97
Baganza	21300	TR50	542.00	283.95	285.90	285.90	286.36	0.014084	3.09	184.08	194.66	0.96
Baganza	21300	TR100	676.00	283.95	286.05	286.05	286.58	0.013763	3.31	213.55	197.08	0.96
Baganza	21300	TR200	835.00	283.95	286.21	286.21	286.82	0.013526	3.56	245.38	201.48	0.98
Baganza	21200	TR5	227.00	282.86	283.85	283.85	284.08	0.018914	2.15	110.53	250.34	0.98
Baganza	21200	TR10	306.00	282.86	283.96	283.96	284.22	0.017567	2.34	138.10	265.09	0.97
Baganza	21200	TR20	397.00	282.86	284.07	284.07	284.37	0.016583	2.51	167.65	279.63	0.97
Baganza	21200	TR50	542.00	282.86	284.21	284.21	284.57	0.016230	2.78	207.87	293.82	0.98
Baganza	21200	TR100	676.00	282.86	284.33	284.33	284.74	0.015752	2.97	245.31	317.37	0.99
Baganza	21200	TR200	835.00	282.86	284.49	284.49	284.92	0.013408	3.03	299.93	357.90	0.93
Baganza	21100	TR5	227.00	281.30	282.26	282.20	282.39	0.011892	1.74	145.60	347.81	0.78
Baganza	21100	TR10	306.00	281.30	282.33	282.28	282.50	0.013061	1.98	170.56	351.39	0.83
Baganza	21100	TR20	397.00	281.30	282.43	282.36	282.63	0.011940	2.10	206.48	356.04	0.82
Baganza	21100	TR50	542.00	281.30	282.55	282.49	282.80	0.012577	2.38	246.70	360.39	0.86
Baganza	21100	TR100	676.00	281.30	282.65	282.58	282.94	0.012323	2.55	284.86	363.91	0.87
Baganza	21100	TR200	835.00	281.30	282.77	282.69	283.10	0.011957	2.72	329.57	388.83	0.87
Baganza	21000	TR5	227.00	279.27	280.90	280.90	281.14	0.012917	2.25	114.29	269.96	0.86
Baganza	21000	TR10	306.00	279.27	281.05	281.05	281.27	0.011143	2.27	161.50	347.15	0.81
Baganza	21000	TR20	397.00	279.27	281.13	281.13	281.40	0.012124	2.50	192.31	366.09	0.86
Baganza	21000	TR50	542.00	279.27	281.28	281.28	281.57	0.011456	2.65	247.45	382.08	0.85
Baganza	21000	TR100	676.00	279.27	281.38	281.38	281.71	0.011836	2.84	284.55	384.89	0.88
Baganza	21000	TR200	835.00	279.27	281.48	281.48	281.85	0.012372	3.04	323.30	388.59	0.91
Baganza	20900	TR5	227.00	277.53	279.27	279.27	279.52	0.009795	2.30	114.94	235.97	0.77
Baganza	20900	TR10	306.00	277.53	279.44	279.44	279.66	0.011461	2.26	163.14	344.72	0.82



HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	20900	TR20	397.00	277.53	279.55	279.55	279.78	0.011753	2.35	201.78	372.74	0.83
Baganza	20900	TR50	542.00	277.53	279.65	279.65	279.94	0.013192	2.65	240.77	385.86	0.90
Baganza	20900	TR100	676.00	277.53	279.75	279.75	280.08	0.013209	2.84	278.82	405.00	0.91
Baganza	20900	TR200	835.00	277.53	279.86	279.86	280.23	0.012516	2.97	328.85	451.59	0.91
Baganza	20800	TR5	227.00	276.24	277.60	277.60	277.80	0.017220	2.16	116.95	269.41	0.94
Baganza	20800	TR10	306.00	276.24	277.71	277.71	277.92	0.019815	2.15	151.02	352.53	0.99
Baganza	20800	TR20	397.00	276.24	277.80	277.80	278.04	0.019169	2.27	183.10	380.73	0.99
Baganza	20800	TR50	542.00	276.24	277.92	277.92	278.20	0.017807	2.41	234.16	426.65	0.98
Baganza	20800	TR100	676.00	276.24	278.02	278.02	278.33	0.016914	2.57	275.67	441.89	0.98
Baganza	20800	TR200	835.00	276.24	278.12	278.12	278.47	0.016112	2.73	321.61	455.85	0.98
Baganza	20700	TR5	227.00	274.72	276.13	276.04	276.26	0.009483	1.68	147.20	305.91	0.71
Baganza	20700	TR10	306.00	274.72	276.24	276.13	276.39	0.009388	1.83	182.42	326.97	0.72
Baganza	20700	TR20	397.00	274.72	276.34	276.23	276.52	0.009653	2.00	214.61	335.41	0.74
Baganza	20700	TR50	542.00	274.72	276.47	276.36	276.70	0.009982	2.23	260.47	365.10	0.77
Baganza	20700	TR100	676.00	274.72	276.59	276.47	276.85	0.009646	2.37	305.58	388.66	0.78
Baganza	20700	TR200	835.00	274.72	276.73	276.59	277.01	0.009232	2.51	360.78	418.16	0.77
Baganza	20600	TR5	227.00	273.50	274.59	274.59	274.93	0.017903	2.58	88.03	129.88	1.00
Baganza	20600	TR10	306.00	273.50	274.76	274.76	275.14	0.015396	2.74	113.94	159.23	0.96
Baganza	20600	TR20	397.00	273.50	274.96	274.96	275.35	0.012725	2.80	150.22	225.88	0.90
Baganza	20600	TR50	542.00	273.50	275.19	275.19	275.59	0.010669	2.90	210.60	279.77	0.85
Baganza	20600	TR100	676.00	273.50	275.34	275.34	275.77	0.010213	3.06	254.53	301.54	0.85
Baganza	20600	TR200	835.00	273.50	275.50	275.50	275.96	0.009915	3.23	302.65	322.75	0.85
Baganza	20500	TR5	227.00	272.06	273.12	273.10	273.32	0.012553	2.16	123.11	264.36	0.84
Baganza	20500	TR10	306.00	272.06	273.27	273.25	273.47	0.011736	2.20	165.20	327.00	0.82
Baganza	20500	TR20	397.00	272.06	273.37	273.32	273.60	0.011604	2.37	200.87	351.32	0.83
Baganza	20500	TR50	542.00	272.06	273.46	273.46	273.77	0.014182	2.79	231.62	359.01	0.93
Baganza	20500	TR100	676.00	272.06	273.58	273.58	273.92	0.013126	2.91	278.48	383.35	0.92
Baganza	20500	TR200	835.00	272.06	273.69	273.69	274.07	0.013232	3.11	318.82	388.18	0.93
Baganza	20400	TR5	227.00	269.89	271.45	271.45	271.79	0.018054	2.56	88.65	132.96	1.00
Baganza	20400	TR10	306.00	269.89	271.62	271.62	272.00	0.017229	2.73	111.99	147.11	1.00
Baganza	20400	TR20	397.00	269.89	271.81	271.81	272.20	0.015685	2.77	145.37	211.42	0.97
Baganza	20400	TR50	542.00	269.89	272.06	272.06	272.44	0.011307	2.79	211.78	321.23	0.86
Baganza	20400	TR100	676.00	269.89	272.23	272.23	272.62	0.010000	2.88	267.45	352.02	0.83
Baganza	20400	TR200	835.00	269.89	272.38	272.38	272.79	0.009541	3.02	322.14	379.53	0.82
Baganza	20300	TR5	227.00	268.58	269.91	269.86	270.16	0.014351	2.18	104.20	170.17	0.88
Baganza	20300	TR10	306.00	268.58	270.06	270.00	270.34	0.014265	2.37	129.53	187.04	0.90
Baganza	20300	TR20	397.00	268.58	270.20	270.14	270.53	0.013641	2.54	157.26	199.16	0.90
Baganza	20300	TR50	542.00	268.58	270.38	270.33	270.78	0.013274	2.82	194.21	208.78	0.91
Baganza	20300	TR100	676.00	268.58	270.52	270.47	271.00	0.013483	3.07	224.55	241.85	0.94
Baganza	20300	TR200	835.00	268.58	270.73	270.73	271.20	0.011954	3.09	288.54	343.08	0.90
Baganza	20200	TR5	227.00	267.18	268.50	268.44	268.73	0.014173	2.14	105.87	172.97	0.87
Baganza	20200	TR10	306.00	267.18	268.63	268.58	268.91	0.014270	2.35	130.24	186.43	0.90
Baganza	20200	TR20	397.00	267.18	268.75	268.71	269.10	0.015067	2.61	152.19	193.93	0.94
Baganza	20200	TR50	542.00	267.18	268.91	268.90	269.35	0.015517	2.95	183.88	199.40	0.98
Baganza	20200	TR100	676.00	267.18	269.05	269.05	269.57	0.015175	3.19	212.47	218.27	0.99
Baganza	20200	TR200	835.00	267.18	269.24	269.24	269.79	0.013291	3.32	257.94	261.91	0.95
Baganza	20100	TR5	227.00	266.07	267.08	267.03	267.30	0.014381	2.09	108.54	186.22	0.87
Baganza	20100	TR10	306.00	266.07	267.20	267.15	267.48	0.014472	2.35	130.06	187.87	0.90
Baganza	20100	TR20	397.00	266.07	267.34	267.28	267.66	0.013672	2.54	156.52	193.50	0.90
Baganza	20100	TR50	542.00	266.07	267.51	267.45	267.92	0.013148	2.83	191.47	194.92	0.91
Baganza	20100	TR100	676.00	266.07	267.65	267.60	268.14	0.013304	3.10	218.38	196.10	0.94
Baganza	20100	TR200	835.00	266.07	267.79	267.77	268.38	0.013857	3.40	245.64	197.61	0.97
Baganza	20000	TR5	227.00	264.54	265.85	265.76	266.01	0.011700	1.80	125.99	231.35	0.78
Baganza	20000	TR10	306.00	264.54	265.95	265.87	266.16	0.012070	2.04	149.92	233.69	0.81
Baganza	20000	TR20	397.00	264.54	266.04	265.98	266.31	0.013324	2.33	170.75	235.75	0.87
Baganza	20000	TR50	542.00	264.54	266.17	266.13	266.54	0.014665	2.66	203.47	246.16	0.94
Baganza	20000	TR100	676.00	264.54	266.30	266.27	266.72	0.015195	2.89	234.17	257.89	0.97
Baganza	20000	TR200	835.00	264.54	266.42	266.41	266.92	0.015377	3.14	265.73	259.97	0.99
Baganza	19900	TR5	227.00	262.92	264.27	264.27	264.50	0.020261	2.10	107.86	236.74	1.00
Baganza	19900	TR10	306.00	262.92	264.38	264.38	264.64	0.019647	2.26	135.43	261.16	1.00
Baganza	19900	TR20	397.00	262.92	264.49	264.48	264.79	0.017588	2.42	164.05	262.65	0.98
Baganza	19900	TR50	542.00	262.92	264.64	264.63	265.00	0.016018	2.66	203.97	265.83	0.97
Baganza	19900	TR100	676.00	262.92	264.76	264.75	265.18	0.015610	2.87	235.93	270.55	0.98
Baganza	19900	TR200	835.00	262.92	264.89	264.89	265.38	0.015514	3.11	269.09	273.36	0.99
Baganza	19800	TR5	227.00	260.71	262.56	262.49	262.82	0.013300	2.23	101.74	149.10	0.86
Baganza	19800	TR10	306.00	260.71	262.72	262.65	263.02	0.013702	2.41	126.88	169.24	0.89
Baganza	19800	TR20	397.00	260.71	262.87	262.82	263.21	0.014302	2.58	153.69	191.90	0.92
Baganza	19800	TR50	542.00	260.71	263.04	263.02	263.46	0.014854	2.86	189.97	218.07	0.96
Baganza	19800	TR100	676.00	260.71	263.18	263.18	263.67	0.014728	3.10	220.45	237.05	0.97
Baganza	19800	TR200	835.00	260.71	263.35	263.35	263.88	0.013614	3.27	261.73	251.36	0.96
Baganza	19700	TR5	227.00	259.24	260.95	260.95	261.26	0.018431	2.46	92.14	148.63	1.00

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	19700	TR10	306.00	259.24	261.11	261.11	261.46	0.017872	2.62	116.92	168.34	1.00
Baganza	19700	TR20	397.00	259.24	261.25	261.25	261.65	0.017004	2.79	142.33	179.41	1.00
Baganza	19700	TR50	542.00	259.24	261.44	261.44	261.92	0.015950	3.07	176.27	182.96	1.00
Baganza	19700	TR100	676.00	259.24	261.60	261.60	262.15	0.015186	3.30	205.01	186.27	1.00
Baganza	19700	TR200	835.00	259.24	261.80	261.80	262.40	0.013855	3.42	246.67	218.46	0.97
Baganza	19600	TR5	227.00	258.01	259.39	259.31	259.69	0.013559	2.45	94.74	146.80	0.89
Baganza	19600	TR10	306.00	258.01	259.56	259.54	259.90	0.013528	2.60	122.93	176.04	0.90
Baganza	19600	TR20	397.00	258.01	259.72	259.70	260.09	0.013160	2.73	153.41	195.35	0.90
Baganza	19600	TR50	542.00	258.01	259.92	259.91	260.35	0.012649	2.98	193.80	211.05	0.91
Baganza	19600	TR100	676.00	258.01	260.05	260.05	260.56	0.013359	3.27	220.33	214.90	0.95
Baganza	19600	TR200	835.00	258.01	260.22	260.22	260.79	0.012807	3.48	257.62	223.56	0.95
Baganza	19500	TR5	227.00	256.94	258.07	258.02	258.30	0.014427	2.12	106.94	179.48	0.88
Baganza	19500	TR10	306.00	256.94	258.18	258.14	258.47	0.015028	2.41	126.87	181.24	0.92
Baganza	19500	TR20	397.00	256.94	258.29	258.27	258.66	0.015574	2.70	147.15	182.51	0.96
Baganza	19500	TR50	542.00	256.94	258.46	258.46	258.93	0.016119	3.03	178.88	194.46	1.00
Baganza	19500	TR100	676.00	256.94	258.63	258.63	259.14	0.014365	3.18	215.16	230.38	0.97
Baganza	19500	TR200	835.00	256.94	258.83	258.83	259.37	0.012401	3.27	265.20	263.62	0.92
Baganza	19400	TR5	227.00	255.59	256.52	256.52	256.77	0.015887	2.27	104.85	204.95	0.93
Baganza	19400	TR10	306.00	255.59	256.64	256.64	256.94	0.015370	2.50	128.73	206.15	0.94
Baganza	19400	TR20	397.00	255.59	256.75	256.75	257.11	0.014961	2.73	153.31	208.67	0.95
Baganza	19400	TR50	542.00	255.59	256.93	256.93	257.36	0.014229	3.00	190.41	217.65	0.95
Baganza	19400	TR100	676.00	255.59	257.07	257.07	257.57	0.013924	3.23	220.94	220.67	0.96
Baganza	19400	TR200	835.00	255.59	257.22	257.22	257.79	0.013430	3.45	255.85	224.39	0.96
Baganza	19300	TR5	227.00	254.01	255.03	254.94	255.22	0.011985	1.93	117.82	199.17	0.80
Baganza	19300	TR10	306.00	254.01	255.14	255.06	255.38	0.012349	2.18	140.17	200.92	0.83
Baganza	19300	TR20	397.00	254.01	255.26	255.18	255.56	0.012469	2.41	164.43	204.10	0.86
Baganza	19300	TR50	542.00	254.01	255.41	255.35	255.80	0.013391	2.78	195.24	207.36	0.91
Baganza	19300	TR100	676.00	254.01	255.50	255.50	256.01	0.015494	3.15	214.72	215.12	1.00
Baganza	19300	TR200	835.00	254.01	255.68	255.68	256.24	0.014638	3.32	252.68	229.79	0.99
Baganza	19200	TR5	227.00	252.10	253.65	253.62	253.88	0.015137	2.12	109.59	212.21	0.89
Baganza	19200	TR10	306.00	252.10	253.77	253.74	254.04	0.014655	2.32	136.24	228.08	0.90
Baganza	19200	TR20	397.00	252.10	253.88	253.86	254.20	0.014732	2.56	161.27	239.48	0.93
Baganza	19200	TR50	542.00	252.10	254.04	254.04	254.43	0.014090	2.83	203.31	289.06	0.93
Baganza	19200	TR100	676.00	252.10	254.21	254.21	254.61	0.012135	2.92	253.73	318.42	0.89
Baganza	19200	TR200	835.00	252.10	254.37	254.37	254.80	0.010704	3.02	311.67	379.38	0.86
Baganza	19100	TR5	227.00	250.83	252.26	252.19	252.44	0.013648	1.87	121.09	235.47	0.83
Baganza	19100	TR10	306.00	250.83	252.35	252.30	252.59	0.014417	2.14	143.28	250.30	0.88
Baganza	19100	TR20	397.00	250.83	252.45	252.42	252.74	0.014575	2.37	170.08	293.04	0.91
Baganza	19100	TR50	542.00	250.83	252.59	252.59	252.94	0.014433	2.66	212.70	322.49	0.93
Baganza	19100	TR100	676.00	250.83	252.71	252.71	253.10	0.013644	2.83	253.33	336.91	0.92
Baganza	19100	TR200	835.00	250.83	252.85	252.85	253.28	0.012780	2.98	300.50	355.44	0.91
Baganza	19000	TR5	227.00	249.42	250.56	250.56	250.79	0.020268	2.16	105.31	222.77	1.00
Baganza	19000	TR10	306.00	249.42	250.67	250.67	250.95	0.018845	2.34	130.89	232.11	0.99
Baganza	19000	TR20	397.00	249.42	250.78	250.78	251.10	0.018479	2.52	157.75	246.83	1.00
Baganza	19000	TR50	542.00	249.42	250.93	250.93	251.32	0.017080	2.76	196.25	251.79	1.00
Baganza	19000	TR100	676.00	249.42	251.06	251.06	251.51	0.016223	2.96	228.41	258.38	1.00
Baganza	19000	TR200	835.00	249.42	251.20	251.20	251.71	0.015435	3.16	265.58	280.41	0.99
Baganza	18900	TR5	227.00	247.90	249.16	249.04	249.32	0.010212	1.79	126.51	211.12	0.74
Baganza	18900	TR10	306.00	247.90	249.28	249.16	249.48	0.010312	2.00	153.13	222.73	0.76
Baganza	18900	TR20	397.00	247.90	249.40	249.27	249.65	0.010376	2.21	180.85	247.75	0.78
Baganza	18900	TR50	542.00	247.90	249.57	249.45	249.87	0.010088	2.46	226.70	300.22	0.80
Baganza	18900	TR100	676.00	247.90	249.71	249.58	250.05	0.009757	2.64	271.08	333.91	0.80
Baganza	18900	TR200	835.00	247.90	249.82	249.77	250.23	0.010376	2.90	309.10	362.01	0.84
Baganza	18830	TR5	227.00	247.12	248.09	248.09	248.37	0.019126	2.32	97.81	177.69	1.00
Baganza	18830	TR10	306.00	247.12	248.21	248.21	248.55	0.017958	2.56	119.71	179.47	1.00
Baganza	18830	TR20	397.00	247.12	248.35	248.35	248.74	0.016820	2.77	143.57	184.70	0.99
Baganza	18830	TR50	542.00	247.12	248.53	248.53	249.00	0.015672	3.05	178.37	191.59	0.99
Baganza	18830	TR100	676.00	247.12	248.69	248.69	249.23	0.014423	3.24	210.42	216.18	0.98
Baganza	18830	TR200	835.00	247.12	248.91	248.91	249.45	0.011789	3.29	265.42	282.08	0.91
Baganza	18800	TR5	227.00	246.46	247.61	247.54	247.83	0.013338	2.09	108.84	177.64	0.85
Baganza	18800	TR10	306.00	246.46	247.72	247.67	248.01	0.013942	2.38	129.37	187.29	0.89
Baganza	18800	TR20	397.00	246.46	247.83	247.80	248.19	0.014296	2.65	151.18	189.42	0.93
Baganza	18800	TR50	542.00	246.46	248.00	247.98	248.45	0.014686	3.01	182.26	192.54	0.96
Baganza	18800	TR100	676.00	246.46	248.14	248.14	248.68	0.014643	3.27	209.60	195.36	0.98
Baganza	18800	TR200	835.00	246.46	248.32	248.32	248.92	0.013669	3.46	245.21	221.78	0.97
Baganza	18715.7	TR5	227.00	245.13	246.21	246.21	246.50	0.018863	2.38	95.37	165.08	1.00
Baganza	18715.7	TR10	306.00	245.13	246.35	246.35	246.69	0.017644	2.59	118.06	171.06	1.00
Baganza	18715.7	TR20	397.00	245.13	246.48	246.48	246.88	0.016942	2.82	140.72	174.15	1.00
Baganza	18715.7	TR50	542.00	245.13	246.67	246.67	247.16	0.016088	3.11	174.44	179.66	1.01
Baganza	18715.7	TR100	676.00	245.13	246.83	246.83	247.39	0.015157	3.31	204.08	182.57	1.00
Baganza	18715.7	TR200	835.00	245.13	247.00	247.00	247.64	0.014546	3.54	235.77	184.97	1.00

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	18705.61	TR5	227.00	244.89	246.14	246.02	246.33	0.010305	1.95	116.14	171.69	0.76
Baganza	18705.61	TR10	306.00	244.89	246.28	246.15	246.52	0.009844	2.16	141.92	174.94	0.76
Baganza	18705.61	TR20	397.00	244.89	246.44	246.28	246.72	0.009466	2.35	169.17	178.32	0.77
Baganza	18705.61	TR50	542.00	244.89	246.66	246.47	247.00	0.009135	2.58	209.95	186.75	0.78
Baganza	18705.61	TR100	676.00	244.89	246.86	246.64	247.24	0.008832	2.73	247.96	198.17	0.78
Baganza	18705.61	TR200	835.00	244.89	247.07	246.83	247.49	0.008615	2.87	290.62	210.70	0.78
Baganza	18705	Bridge										
Baganza	18699.55	TR5	227.00	244.91	246.03	245.91	246.23	0.010328	1.95	116.15	171.97	0.76
Baganza	18699.55	TR10	306.00	244.91	246.18	246.04	246.42	0.009749	2.15	142.44	175.24	0.76
Baganza	18699.55	TR20	397.00	244.91	246.34	246.18	246.62	0.009323	2.33	170.75	180.42	0.76
Baganza	18699.55	TR50	542.00	244.91	246.57	246.37	246.90	0.008762	2.55	212.50	186.50	0.76
Baganza	18699.55	TR100	676.00	244.91	246.75	246.53	247.13	0.008552	2.74	246.99	191.47	0.77
Baganza	18699.55	TR200	835.00	244.91	246.96	246.71	247.39	0.008286	2.91	286.57	197.51	0.77
Baganza	18689.46	TR5	227.00	244.83	245.86	245.80	246.11	0.013782	2.20	103.00	158.16	0.87
Baganza	18689.46	TR10	306.00	244.83	245.98	245.94	246.30	0.014647	2.51	121.77	160.71	0.92
Baganza	18689.46	TR20	397.00	244.83	246.10	246.07	246.50	0.015273	2.80	141.73	164.01	0.96
Baganza	18689.46	TR50	542.00	244.83	246.29	246.29	246.79	0.015611	3.13	173.27	172.73	1.00
Baganza	18689.46	TR100	676.00	244.83	246.45	246.45	247.02	0.015015	3.35	202.04	176.80	1.00
Baganza	18689.46	TR200	835.00	244.83	246.63	246.63	247.28	0.014386	3.57	233.86	179.76	1.00
Baganza	18600	TR5	227.00	243.19	244.40	244.40	244.71	0.017812	2.45	92.70	147.14	0.98
Baganza	18600	TR10	306.00	243.19	244.55	244.54	244.92	0.016324	2.67	114.44	149.11	0.97
Baganza	18600	TR20	397.00	243.19	244.70	244.68	245.13	0.015335	2.90	137.06	151.13	0.97
Baganza	18600	TR50	542.00	243.19	244.92	244.90	245.44	0.014035	3.17	171.26	156.93	0.96
Baganza	18600	TR100	676.00	243.19	245.07	245.07	245.69	0.014524	3.48	194.93	160.54	1.00
Baganza	18600	TR200	835.00	243.19	245.28	245.28	245.97	0.013592	3.68	228.22	170.67	0.99
Baganza	18500	TR5	227.00	241.81	243.03	242.94	243.27	0.011918	2.16	105.22	149.58	0.82
Baganza	18500	TR10	306.00	241.81	243.15	243.08	243.46	0.013004	2.49	123.02	150.78	0.88
Baganza	18500	TR20	397.00	241.81	243.27	243.23	243.67	0.013872	2.81	141.53	152.01	0.93
Baganza	18500	TR50	542.00	241.81	243.44	243.44	243.97	0.015230	3.25	166.64	153.72	1.00
Baganza	18500	TR100	676.00	241.81	243.61	243.61	244.23	0.014564	3.49	193.84	155.71	1.00
Baganza	18500	TR200	835.00	241.81	243.81	243.81	244.51	0.014029	3.71	225.21	163.87	1.00
Baganza	18400	TR5	227.00	240.46	241.62	241.62	241.90	0.015892	2.37	100.40	182.96	0.94
Baganza	18400	TR10	306.00	240.46	241.76	241.76	242.08	0.014768	2.55	127.26	198.60	0.93
Baganza	18400	TR20	397.00	240.46	241.89	241.89	242.26	0.014434	2.77	152.55	202.58	0.94
Baganza	18400	TR50	542.00	240.46	242.06	242.06	242.51	0.014103	3.07	188.10	208.75	0.95
Baganza	18400	TR100	676.00	240.46	242.21	242.21	242.72	0.013717	3.30	219.48	217.73	0.96
Baganza	18400	TR200	835.00	240.46	242.40	242.40	242.95	0.012380	3.45	261.92	248.39	0.94
Baganza	18300	TR5	227.00	238.72	240.13	240.06	240.35	0.012932	2.04	111.12	182.19	0.83
Baganza	18300	TR10	306.00	238.72	240.25	240.19	240.52	0.013927	2.31	132.23	190.07	0.89
Baganza	18300	TR20	397.00	238.72	240.38	240.33	240.70	0.014893	2.52	157.84	210.53	0.93
Baganza	18300	TR50	542.00	238.72	240.54	240.52	240.94	0.015347	2.80	193.80	230.88	0.96
Baganza	18300	TR100	676.00	238.72	240.71	240.71	241.13	0.013477	2.89	241.37	356.11	0.92
Baganza	18300	TR200	835.00	238.72	240.90	240.90	241.30	0.010837	2.88	316.89	417.09	0.85
Baganza	18200	TR5	227.00	237.71	238.75	238.70	238.97	0.014762	2.05	110.46	198.29	0.88
Baganza	18200	TR10	306.00	237.71	238.90	238.82	239.13	0.013732	2.17	141.15	221.49	0.87
Baganza	18200	TR20	397.00	237.71	239.02	238.95	239.30	0.013142	2.37	167.85	223.62	0.87
Baganza	18200	TR50	542.00	237.71	239.18	239.11	239.54	0.012833	2.64	205.10	228.59	0.89
Baganza	18200	TR100	676.00	237.71	239.32	239.24	239.73	0.012555	2.85	237.45	234.11	0.90
Baganza	18200	TR200	835.00	237.71	239.45	239.40	239.95	0.012916	3.11	269.06	238.70	0.93
Baganza	18100	TR5	227.00	235.93	237.50	237.43	237.71	0.010867	2.06	116.46	193.42	0.78
Baganza	18100	TR10	306.00	235.93	237.62	237.55	237.88	0.011524	2.30	141.06	208.62	0.82
Baganza	18100	TR20	397.00	235.93	237.77	237.72	238.05	0.011966	2.41	173.91	243.87	0.84
Baganza	18100	TR50	542.00	235.93	237.91	237.87	238.27	0.012525	2.73	210.21	258.21	0.89
Baganza	18100	TR100	676.00	235.93	238.03	238.00	238.45	0.013082	2.99	240.69	277.22	0.92
Baganza	18100	TR200	835.00	235.93	238.16	238.16	238.65	0.013049	3.22	279.80	303.43	0.94
Baganza	18000	TR5	227.00	234.58	236.02	236.02	236.28	0.019412	2.27	99.91	192.22	1.00
Baganza	18000	TR10	306.00	234.58	236.16	236.16	236.45	0.018210	2.40	128.26	220.12	0.99
Baganza	18000	TR20	397.00	234.58	236.27	236.27	236.61	0.017529	2.57	155.36	233.62	0.99
Baganza	18000	TR50	542.00	234.58	236.43	236.43	236.84	0.016404	2.83	193.44	241.41	0.99
Baganza	18000	TR100	676.00	234.58	236.58	236.58	237.03	0.015595	3.00	228.64	258.12	0.99
Baganza	18000	TR200	835.00	234.58	236.73	236.73	237.23	0.014649	3.14	271.94	297.13	0.97
Baganza	17900	TR5	227.00	233.07	234.49	234.38	234.66	0.010006	1.83	124.32	198.77	0.74
Baganza	17900	TR10	306.00	233.07	234.60	234.49	234.82	0.010462	2.08	147.31	203.97	0.77
Baganza	17900	TR20	397.00	233.07	234.72	234.61	234.99	0.011109	2.34	170.35	211.69	0.82
Baganza	17900	TR50	542.00	233.07	234.87	234.79	235.23	0.012029	2.69	204.52	242.71	0.87
Baganza	17900	TR100	676.00	233.07	234.99	234.95	235.43	0.012645	2.96	234.52	251.69	0.91
Baganza	17900	TR200	835.00	233.07	235.17	235.11	235.64	0.011204	3.07	281.90	257.75	0.88
Baganza	17800	TR5	227.00	231.83	233.04	233.04	233.31	0.019175	2.29	99.09	183.90	1.00
Baganza	17800	TR10	306.00	231.83	233.17	233.16	233.49	0.017670	2.51	122.09	186.23	0.99
Baganza	17800	TR20	397.00	231.83	233.30	233.29	233.67	0.015951	2.68	148.01	188.82	0.97
Baganza	17800	TR50	542.00	231.83	233.51	233.47	233.94	0.014013	2.90	187.08	197.77	0.94

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	17800	TR100	676.00	231.83	233.68	233.62	234.16	0.012742	3.06	222.56	208.65	0.92
Baganza	17800	TR200	835.00	231.83	233.80	233.80	234.39	0.014031	3.40	247.81	214.16	0.98
Baganza	17700	TR5	227.00	230.76	231.82	231.69	232.01	0.009346	1.92	118.29	167.02	0.73
Baganza	17700	TR10	306.00	230.76	231.95	231.81	232.20	0.009836	2.19	139.91	168.69	0.77
Baganza	17700	TR20	397.00	230.76	232.08	231.95	232.39	0.010570	2.47	161.04	171.26	0.81
Baganza	17700	TR50	542.00	230.76	232.24	232.15	232.66	0.011726	2.86	190.04	179.32	0.88
Baganza	17700	TR100	676.00	230.76	232.37	232.32	232.88	0.012743	3.18	213.41	187.47	0.93
Baganza	17700	TR200	835.00	230.76	232.58	232.58	233.13	0.011437	3.31	264.56	292.74	0.90
Baganza	17600	TR5	227.00	229.15	230.48	230.47	230.71	0.019205	2.15	105.62	215.95	0.98
Baganza	17600	TR10	306.00	229.15	230.58	230.58	230.87	0.018918	2.37	129.13	225.46	1.00
Baganza	17600	TR20	397.00	229.15	230.69	230.69	231.03	0.017965	2.58	154.04	228.12	1.00
Baganza	17600	TR50	542.00	229.15	230.85	230.85	231.27	0.016802	2.85	190.45	231.15	1.00
Baganza	17600	TR100	676.00	229.15	230.99	230.99	231.46	0.016021	3.04	222.15	235.27	1.00
Baganza	17600	TR200	835.00	229.15	231.15	231.15	231.67	0.015098	3.19	263.10	269.78	0.99
Baganza	17500	TR5	227.00	227.64	228.81	228.77	229.02	0.015077	2.05	110.93	203.42	0.88
Baganza	17500	TR10	306.00	227.64	228.94	228.88	229.19	0.013109	2.20	138.92	205.36	0.85
Baganza	17500	TR20	397.00	227.64	229.08	228.99	229.37	0.011909	2.37	167.81	207.38	0.84
Baganza	17500	TR50	542.00	227.64	229.31	229.17	229.63	0.010246	2.52	214.84	215.38	0.81
Baganza	17500	TR100	676.00	227.64	229.47	229.31	229.84	0.009690	2.70	250.70	223.34	0.80
Baganza	17500	TR200	835.00	227.64	229.61	229.47	230.06	0.010229	2.97	282.26	235.30	0.84
Baganza	17400	TR5	227.00	226.09	227.66	227.51	227.85	0.009385	1.95	116.33	161.44	0.73
Baganza	17400	TR10	306.00	226.09	227.78	227.65	228.04	0.010280	2.26	136.01	169.64	0.79
Baganza	17400	TR20	397.00	226.09	227.90	227.79	228.23	0.010948	2.54	158.05	188.40	0.83
Baganza	17400	TR50	542.00	226.09	228.04	228.01	228.49	0.012649	2.99	185.93	197.04	0.91
Baganza	17400	TR100	676.00	226.09	228.18	228.18	228.72	0.013142	3.29	212.95	202.31	0.95
Baganza	17400	TR200	835.00	226.09	228.38	228.38	228.96	0.011820	3.43	257.38	250.75	0.92
Baganza	17300	TR5	227.00	224.82	226.33	226.33	226.58	0.018090	2.24	103.07	210.60	0.97
Baganza	17300	TR10	306.00	224.82	226.45	226.45	226.74	0.016553	2.42	129.78	223.86	0.96
Baganza	17300	TR20	397.00	224.82	226.57	226.57	226.91	0.016029	2.63	156.40	239.23	0.96
Baganza	17300	TR50	542.00	224.82	226.74	226.74	227.14	0.014376	2.85	200.45	259.23	0.94
Baganza	17300	TR100	676.00	224.82	226.89	226.89	227.32	0.013387	3.01	239.15	280.11	0.93
Baganza	17300	TR200	835.00	224.82	227.04	227.04	227.52	0.012578	3.18	283.74	309.81	0.92
Baganza	17200	TR5	227.00	223.27	224.77	224.68	225.00	0.013347	2.11	107.37	170.89	0.85
Baganza	17200	TR10	306.00	223.27	224.95	224.85	225.19	0.012677	2.17	140.85	207.10	0.84
Baganza	17200	TR20	397.00	223.27	225.12	224.99	225.37	0.010387	2.25	176.26	211.40	0.79
Baganza	17200	TR50	542.00	223.27	225.31	225.16	225.63	0.009590	2.48	218.28	213.00	0.78
Baganza	17200	TR100	676.00	223.27	225.43	225.30	225.82	0.010602	2.79	242.25	213.90	0.84
Baganza	17200	TR200	835.00	223.27	225.54	225.45	226.04	0.011674	3.12	267.73	221.48	0.89
Baganza	17100	TR5	227.00	222.40	223.53	223.43	223.75	0.011675	2.12	107.24	154.45	0.81
Baganza	17100	TR10	306.00	222.40	223.66	223.57	223.95	0.012051	2.38	128.39	158.45	0.85
Baganza	17100	TR20	397.00	222.40	223.75	223.72	224.14	0.014823	2.78	142.90	163.65	0.95
Baganza	17100	TR50	542.00	222.40	223.94	223.94	224.42	0.015551	3.07	177.68	203.75	0.99
Baganza	17100	TR100	676.00	222.40	224.16	224.16	224.64	0.013420	3.09	225.55	248.38	0.94
Baganza	17100	TR200	835.00	222.40	224.33	224.33	224.85	0.012276	3.23	272.12	286.74	0.92
Baganza	17000	TR5	227.00	220.93	222.39	222.30	222.60	0.011340	2.04	112.89	184.25	0.79
Baganza	17000	TR10	306.00	220.93	222.54	222.44	222.79	0.011255	2.23	142.50	225.80	0.81
Baganza	17000	TR20	397.00	220.93	222.70	222.60	222.96	0.009603	2.31	181.81	243.24	0.77
Baganza	17000	TR50	542.00	220.93	222.87	222.78	223.19	0.009856	2.60	223.35	263.57	0.80
Baganza	17000	TR100	676.00	220.93	222.99	222.92	223.37	0.010232	2.84	256.36	272.35	0.83
Baganza	17000	TR200	835.00	220.93	223.08	223.07	223.57	0.011847	3.21	281.70	284.06	0.90
Baganza	16900	TR5	227.00	219.61	221.24	221.13	221.46	0.011608	2.06	112.21	195.12	0.80
Baganza	16900	TR10	306.00	219.61	221.37	221.30	221.63	0.011804	2.28	139.11	219.15	0.83
Baganza	16900	TR20	397.00	219.61	221.44	221.44	221.80	0.014391	2.68	155.31	223.04	0.93
Baganza	16900	TR50	542.00	219.61	221.62	221.62	222.04	0.013534	2.94	195.33	232.84	0.93
Baganza	16900	TR100	676.00	219.61	221.77	221.77	222.24	0.012674	3.11	233.03	265.73	0.92
Baganza	16900	TR200	835.00	219.61	221.97	221.97	222.44	0.010678	3.16	295.90	368.42	0.87
Baganza	16800	TR5	227.00	218.68	219.82	219.82	220.08	0.016514	2.31	103.46	198.63	0.94
Baganza	16800	TR10	306.00	218.68	219.95	219.95	220.25	0.016434	2.48	130.89	247.48	0.96
Baganza	16800	TR20	397.00	218.68	220.11	220.11	220.40	0.013105	2.52	175.71	324.63	0.88
Baganza	16800	TR50	542.00	218.68	220.27	220.27	220.59	0.011523	2.66	235.62	377.35	0.85
Baganza	16800	TR100	676.00	218.68	220.38	220.38	220.74	0.011545	2.85	278.18	399.50	0.87
Baganza	16800	TR200	835.00	218.68	220.53	220.53	220.89	0.010558	2.95	339.95	472.56	0.85
Baganza	16700	TR5	227.00	217.24	218.51	218.44	218.67	0.011108	1.84	133.12	276.26	0.77
Baganza	16700	TR10	306.00	217.24	218.61	218.54	218.80	0.011372	2.07	160.78	285.09	0.80
Baganza	16700	TR20	397.00	217.24	218.71	218.64	218.95	0.011361	2.27	191.57	308.45	0.82
Baganza	16700	TR50	542.00	217.24	218.85	218.80	219.14	0.011703	2.56	234.84	338.10	0.85
Baganza	16700	TR100	676.00	217.24	218.95	218.91	219.29	0.011964	2.78	271.29	352.22	0.88
Baganza	16700	TR200	835.00	217.24	219.11	219.04	219.47	0.010446	2.86	331.75	408.87	0.84
Baganza	16600	TR5	227.00	215.91	217.14	217.10	217.35	0.015644	2.03	111.79	213.26	0.90
Baganza	16600	TR10	306.00	215.91	217.27	217.22	217.52	0.014658	2.20	139.10	224.10	0.89
Baganza	16600	TR20	397.00	215.91	217.38	217.34	217.68	0.014184	2.41	164.62	225.42	0.90



HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	16600	TR50	542.00	215.91	217.57	217.49	217.92	0.012656	2.63	206.12	233.90	0.88
Baganza	16600	TR100	676.00	215.91	217.73	217.63	218.12	0.011458	2.78	245.07	248.88	0.86
Baganza	16600	TR200	835.00	215.91	217.84	217.79	218.32	0.012486	3.09	274.35	271.02	0.91
Baganza	16500	TR5	227.00	214.44	215.80	215.70	216.01	0.011748	2.03	112.42	179.51	0.80
Baganza	16500	TR10	306.00	214.44	215.93	215.84	216.19	0.012071	2.24	137.65	194.81	0.83
Baganza	16500	TR20	397.00	214.44	216.06	215.98	216.37	0.012190	2.47	162.26	199.85	0.86
Baganza	16500	TR50	542.00	214.44	216.20	216.16	216.62	0.013362	2.87	191.82	204.49	0.92
Baganza	16500	TR100	676.00	214.44	216.31	216.31	216.83	0.014650	3.21	214.52	210.50	0.98
Baganza	16500	TR200	835.00	214.44	216.51	216.51	217.06	0.012805	3.32	261.23	271.25	0.94
Baganza	16400	TR5	227.00	212.98	214.25	214.25	214.54	0.018650	2.41	94.86	161.39	1.00
Baganza	16400	TR10	306.00	212.98	214.39	214.39	214.73	0.017868	2.60	118.23	173.20	1.00
Baganza	16400	TR20	397.00	212.98	214.55	214.55	214.92	0.017375	2.69	148.67	203.47	1.00
Baganza	16400	TR50	542.00	212.98	214.73	214.72	215.17	0.015652	2.94	186.39	211.95	0.98
Baganza	16400	TR100	676.00	212.98	214.91	214.88	215.38	0.013729	3.08	225.75	235.54	0.95
Baganza	16400	TR200	835.00	212.98	215.08	215.06	215.60	0.012585	3.24	267.82	250.93	0.93
Baganza	16300	TR5	227.00	211.80	213.08	212.93	213.25	0.009044	1.82	124.51	185.17	0.71
Baganza	16300	TR10	306.00	211.80	213.20	213.06	213.42	0.009442	2.08	147.39	186.27	0.74
Baganza	16300	TR20	397.00	211.80	213.32	213.18	213.60	0.010070	2.34	169.41	187.35	0.79
Baganza	16300	TR50	542.00	211.80	213.47	213.36	213.85	0.011229	2.73	198.89	200.00	0.85
Baganza	16300	TR100	676.00	211.80	213.58	213.53	214.06	0.012732	3.09	220.77	213.43	0.92
Baganza	16300	TR200	835.00	211.80	213.71	213.71	214.29	0.013575	3.41	249.01	220.31	0.97
Baganza	16200	TR5	227.00	210.58	211.73	211.72	211.97	0.019403	2.18	104.04	209.52	0.99
Baganza	16200	TR10	306.00	210.58	211.83	211.83	212.13	0.018602	2.42	126.39	210.98	1.00
Baganza	16200	TR20	397.00	210.58	211.95	211.95	212.30	0.017310	2.62	152.02	222.68	0.99
Baganza	16200	TR50	542.00	210.58	212.13	212.13	212.54	0.015588	2.86	192.15	242.06	0.97
Baganza	16200	TR100	676.00	210.58	212.28	212.28	212.73	0.013940	2.99	233.33	278.42	0.94
Baganza	16200	TR200	835.00	210.58	212.43	212.43	212.93	0.013152	3.16	277.49	306.82	0.94
Baganza	16100	TR5	227.00	208.81	210.26	210.19	210.44	0.011721	1.96	122.78	221.02	0.80
Baganza	16100	TR10	306.00	208.81	210.38	210.30	210.60	0.011633	2.16	149.21	227.66	0.81
Baganza	16100	TR20	397.00	208.81	210.50	210.41	210.76	0.011621	2.37	175.73	231.12	0.83
Baganza	16100	TR50	542.00	208.81	210.67	210.57	211.00	0.011016	2.61	217.22	247.01	0.84
Baganza	16100	TR100	676.00	208.81	210.82	210.71	211.19	0.010527	2.79	256.85	287.70	0.84
Baganza	16100	TR200	835.00	208.81	210.99	210.88	211.39	0.009813	2.93	308.62	323.16	0.82
Baganza	16000	TR5	227.00	207.81	209.02	208.93	209.22	0.012431	2.01	113.01	184.29	0.82
Baganza	16000	TR10	306.00	207.81	209.18	209.06	209.41	0.011968	2.13	143.96	209.65	0.82
Baganza	16000	TR20	397.00	207.81	209.30	209.21	209.58	0.011767	2.33	170.14	212.68	0.83
Baganza	16000	TR50	542.00	207.81	209.45	209.37	209.82	0.012323	2.67	202.92	214.38	0.88
Baganza	16000	TR100	676.00	207.81	209.58	209.51	210.02	0.012693	2.94	230.21	215.72	0.91
Baganza	16000	TR200	835.00	207.81	209.71	209.66	210.24	0.013206	3.23	258.90	217.09	0.94
Baganza	15900	TR5	227.00	206.58	207.76	207.67	207.97	0.012684	2.01	112.67	185.78	0.83
Baganza	15900	TR10	306.00	206.58	207.88	207.82	208.14	0.013446	2.25	136.06	198.73	0.87
Baganza	15900	TR20	397.00	206.58	208.00	207.94	208.31	0.013568	2.50	158.97	199.76	0.89
Baganza	15900	TR50	542.00	206.58	208.18	208.11	208.57	0.012613	2.76	196.54	201.45	0.89
Baganza	15900	TR100	676.00	206.58	208.34	208.26	208.79	0.011923	2.95	228.89	202.89	0.89
Baganza	15900	TR200	835.00	206.58	208.52	208.42	209.03	0.011258	3.14	268.14	254.65	0.88
Baganza	15800	TR5	227.00	205.12	206.66	206.55	206.84	0.010166	1.85	122.75	195.04	0.74
Baganza	15800	TR10	306.00	205.12	206.80	206.66	207.01	0.009570	2.04	149.91	196.27	0.75
Baganza	15800	TR20	397.00	205.12	206.94	206.79	207.19	0.009397	2.25	176.66	197.48	0.76
Baganza	15800	TR50	542.00	205.12	207.10	206.96	207.44	0.010180	2.60	208.46	198.78	0.81
Baganza	15800	TR100	676.00	205.12	207.22	207.10	207.65	0.010871	2.89	233.83	201.62	0.85
Baganza	15800	TR200	835.00	205.12	207.35	207.27	207.88	0.011701	3.21	261.85	236.03	0.90
Baganza	15700	TR5	227.00	203.95	205.35	205.31	205.60	0.015455	2.21	102.58	170.42	0.91
Baganza	15700	TR10	306.00	203.95	205.47	205.45	205.78	0.016639	2.46	124.49	186.72	0.96
Baganza	15700	TR20	397.00	203.95	205.58	205.58	205.96	0.016965	2.73	145.66	191.68	0.99
Baganza	15700	TR50	542.00	203.95	205.77	205.77	206.22	0.014897	2.96	185.22	217.24	0.97
Baganza	15700	TR100	676.00	203.95	205.93	205.93	206.43	0.013797	3.15	219.80	229.34	0.95
Baganza	15700	TR200	835.00	203.95	206.10	206.10	206.65	0.012828	3.33	259.94	238.57	0.94
Baganza	15600	TR5	227.00	202.49	203.96	203.89	204.19	0.012845	2.14	106.13	161.56	0.84
Baganza	15600	TR10	306.00	202.49	204.11	204.02	204.39	0.011753	2.33	131.25	164.24	0.83
Baganza	15600	TR20	397.00	202.49	204.27	204.15	204.59	0.010862	2.51	159.11	182.60	0.82
Baganza	15600	TR50	542.00	202.49	204.51	204.37	204.88	0.009608	2.70	205.23	203.60	0.80
Baganza	15600	TR100	676.00	202.49	204.70	204.54	205.11	0.008799	2.85	245.21	212.24	0.79
Baganza	15600	TR200	835.00	202.49	204.92	204.73	205.36	0.007867	2.97	292.87	216.92	0.76
Baganza	15500	TR5	227.00	201.21	202.80	202.68	203.04	0.010436	2.16	105.12	134.97	0.78
Baganza	15500	TR10	306.00	201.21	202.94	202.83	203.25	0.011065	2.45	124.71	138.11	0.82
Baganza	15500	TR20	397.00	201.21	203.09	202.99	203.47	0.011665	2.74	144.83	141.34	0.86
Baganza	15500	TR50	542.00	201.21	203.28	203.21	203.78	0.012598	3.14	172.54	145.37	0.92
Baganza	15500	TR100	676.00	201.21	203.44	203.40	204.05	0.013097	3.44	196.45	148.61	0.96
Baganza	15500	TR200	835.00	201.21	203.60	203.60	204.33	0.013909	3.78	220.86	151.75	1.00
Baganza	15300	TR5	227.00	198.76	200.00	200.00	200.32	0.018453	2.50	90.94	143.85	1.00
Baganza	15300	TR10	306.00	198.76	200.15	200.15	200.52	0.017237	2.69	113.66	152.51	1.00

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	15300	TR20	397.00	198.76	200.30	200.30	200.73	0.016306	2.93	135.67	154.04	1.00
Baganza	15300	TR50	542.00	198.76	200.51	200.50	201.03	0.015052	3.22	168.35	155.94	0.99
Baganza	15300	TR100	676.00	198.76	200.68	200.68	201.29	0.014523	3.46	196.12	171.34	0.99
Baganza	15300	TR200	835.00	198.76	201.03	201.03	201.52	0.009068	3.16	294.87	350.02	0.81
Baganza	15200	TR5	227.00	197.33	198.60	198.50	198.84	0.011732	2.17	104.76	145.99	0.82
Baganza	15200	TR10	306.00	197.33	198.74	198.65	199.04	0.012218	2.43	125.82	152.00	0.85
Baganza	15200	TR20	397.00	197.33	198.86	198.80	199.24	0.013361	2.73	145.44	157.99	0.91
Baganza	15200	TR50	542.00	197.33	199.02	199.02	199.53	0.014966	3.18	171.66	183.71	0.98
Baganza	15200	TR100	676.00	197.33	199.24	199.24	199.77	0.012288	3.24	217.90	248.01	0.92
Baganza	15200	TR200	835.00	197.33	199.50	199.50	199.98	0.009348	3.16	296.29	344.24	0.82
Baganza	15100	TR5	227.00	195.85	197.56	197.44	197.75	0.010063	1.94	116.86	178.77	0.75
Baganza	15100	TR10	306.00	195.85	197.69	197.57	197.93	0.010125	2.18	143.70	225.55	0.77
Baganza	15100	TR20	397.00	195.85	197.83	197.72	198.11	0.009759	2.35	179.99	294.41	0.78
Baganza	15100	TR50	542.00	195.85	198.02	197.99	198.32	0.008887	2.51	246.43	371.85	0.76
Baganza	15100	TR100	676.00	195.85	198.17	198.11	198.48	0.008274	2.60	301.49	385.58	0.75
Baganza	15100	TR200	835.00	195.85	198.34	198.24	198.65	0.007295	2.64	370.12	400.91	0.72
Baganza	15000	TR5	227.00	194.99	196.27	196.23	196.52	0.015455	2.19	103.61	174.74	0.91
Baganza	15000	TR10	306.00	194.99	196.39	196.36	196.70	0.015365	2.46	124.51	175.94	0.93
Baganza	15000	TR20	397.00	194.99	196.51	196.49	196.89	0.015535	2.73	145.49	177.15	0.96
Baganza	15000	TR50	542.00	194.99	196.69	196.68	197.17	0.015361	3.07	176.68	178.92	0.99
Baganza	15000	TR100	676.00	194.99	196.85	196.84	197.40	0.014350	3.27	206.68	180.61	0.98
Baganza	15000	TR200	835.00	194.99	197.02	197.01	197.65	0.013994	3.52	237.65	192.76	0.98
Baganza	14900	TR5	227.00	193.61	195.02	194.92	195.23	0.010892	2.02	112.26	164.28	0.78
Baganza	14900	TR10	306.00	193.61	195.16	195.05	195.42	0.010772	2.26	135.45	166.46	0.80
Baganza	14900	TR20	397.00	193.61	195.31	195.18	195.63	0.010507	2.47	160.44	168.78	0.81
Baganza	14900	TR50	542.00	193.61	195.53	195.38	195.91	0.010453	2.75	197.02	176.10	0.83
Baganza	14900	TR100	676.00	193.61	195.67	195.55	196.14	0.011138	3.05	221.91	178.50	0.87
Baganza	14900	TR200	835.00	193.61	195.83	195.73	196.39	0.011393	3.31	251.99	181.72	0.90
Baganza	14800	TR5	227.00	192.52	193.69	193.65	193.96	0.015054	2.28	99.46	154.72	0.91
Baganza	14800	TR10	306.00	192.52	193.82	193.79	194.16	0.015089	2.56	119.58	156.93	0.94
Baganza	14800	TR20	397.00	192.52	193.95	193.93	194.36	0.015466	2.85	139.53	159.08	0.97
Baganza	14800	TR50	542.00	192.52	194.14	194.14	194.66	0.015373	3.19	169.86	162.31	1.00
Baganza	14800	TR100	676.00	192.52	194.33	194.32	194.90	0.013859	3.35	202.76	176.82	0.97
Baganza	14800	TR200	835.00	192.52	194.52	194.52	195.16	0.013316	3.57	237.69	203.40	0.97
Baganza	14700	TR5	227.00	191.27	192.52	192.40	192.73	0.010307	2.02	112.33	157.52	0.76
Baganza	14700	TR10	306.00	191.27	192.66	192.53	192.92	0.010293	2.27	134.79	158.54	0.79
Baganza	14700	TR20	397.00	191.27	192.81	192.67	193.13	0.010070	2.50	159.07	159.63	0.80
Baganza	14700	TR50	542.00	191.27	193.02	192.87	193.42	0.010116	2.82	192.63	172.12	0.82
Baganza	14700	TR100	676.00	191.27	193.14	193.05	193.66	0.011282	3.17	216.31	219.01	0.88
Baganza	14700	TR200	835.00	191.27	193.33	193.33	193.90	0.010683	3.36	263.29	273.38	0.88
Baganza	14600	TR5	227.00	189.93	191.16	191.13	191.48	0.015521	2.49	91.28	127.59	0.94
Baganza	14600	TR10	306.00	189.93	191.32	191.29	191.70	0.014713	2.74	111.87	130.21	0.94
Baganza	14600	TR20	397.00	189.93	191.50	191.46	191.93	0.014522	2.92	136.05	142.31	0.95
Baganza	14600	TR50	542.00	189.93	191.71	191.71	192.25	0.013886	3.24	169.56	183.58	0.96
Baganza	14600	TR100	676.00	189.93	191.92	191.92	192.49	0.012109	3.35	210.16	200.30	0.92
Baganza	14600	TR200	835.00	189.93	192.12	192.12	192.74	0.011442	3.53	252.33	231.57	0.91
Baganza	14500	TR5	227.00	188.60	189.97	189.85	190.22	0.010401	2.23	103.76	132.37	0.79
Baganza	14500	TR10	306.00	188.60	190.13	190.00	190.44	0.010954	2.48	125.74	141.93	0.82
Baganza	14500	TR20	397.00	188.60	190.33	190.19	190.66	0.011179	2.61	155.33	165.05	0.84
Baganza	14500	TR50	542.00	188.60	190.57	190.45	190.96	0.011220	2.79	198.58	191.82	0.86
Baganza	14500	TR100	676.00	188.60	190.71	190.63	191.17	0.012374	3.04	226.93	206.79	0.91
Baganza	14500	TR200	835.00	188.60	190.92	190.83	191.41	0.012442	3.17	275.39	258.11	0.92
Baganza	14400	TR5	227.00	187.35	188.65	188.62	188.96	0.015513	2.47	91.98	132.23	0.94
Baganza	14400	TR10	306.00	187.35	188.81	188.77	189.18	0.014621	2.69	114.42	142.46	0.94
Baganza	14400	TR20	397.00	187.35	188.97	188.95	189.40	0.014459	2.89	139.07	158.34	0.95
Baganza	14400	TR50	542.00	187.35	189.18	189.18	189.70	0.014217	3.21	172.84	173.61	0.97
Baganza	14400	TR100	676.00	187.35	189.39	189.39	189.94	0.012214	3.32	212.99	200.12	0.92
Baganza	14400	TR200	835.00	187.35	189.58	189.58	190.18	0.012070	3.51	251.47	212.20	0.93
Baganza	14300	TR5	227.00	186.17	187.66	187.48	187.85	0.008302	1.95	116.49	149.49	0.70
Baganza	14300	TR10	306.00	186.17	187.81	187.62	188.05	0.008934	2.18	140.78	168.31	0.74
Baganza	14300	TR20	397.00	186.17	187.96	187.79	188.25	0.009330	2.40	171.53	251.07	0.77
Baganza	14300	TR50	542.00	186.17	188.12	188.08	188.49	0.010145	2.72	215.16	285.08	0.82
Baganza	14300	TR100	676.00	186.17	188.26	188.25	188.67	0.010171	2.92	258.32	338.25	0.83
Baganza	14300	TR200	835.00	186.17	188.44	188.44	188.85	0.009034	2.98	328.38	404.91	0.80
Baganza	14200	TR5	227.00	185.31	186.42	186.42	186.71	0.016684	2.40	97.99	171.01	0.96
Baganza	14200	TR10	306.00	185.31	186.55	186.55	186.89	0.015828	2.64	120.94	179.08	0.96
Baganza	14200	TR20	397.00	185.31	186.70	186.70	187.08	0.015187	2.82	147.13	193.88	0.96
Baganza	14200	TR50	542.00	185.31	186.91	186.91	187.34	0.013184	2.98	193.35	228.27	0.92
Baganza	14200	TR100	676.00	185.31	187.09	187.09	187.53	0.012783	3.04	238.04	278.39	0.92
Baganza	14200	TR200	835.00	185.31	187.26	187.26	187.73	0.011650	3.15	291.85	341.77	0.89
Baganza	14100	TR5	227.00	183.62	185.29	185.14	185.44	0.008254	1.69	135.56	215.22	0.67

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	14100	TR10	306.00	183.62	185.42	185.25	185.60	0.008439	1.89	162.93	221.08	0.70
Baganza	14100	TR20	397.00	183.62	185.52	185.37	185.76	0.009174	2.14	186.65	223.60	0.74
Baganza	14100	TR50	542.00	183.62	185.67	185.54	185.98	0.010042	2.48	220.02	226.22	0.80
Baganza	14100	TR100	676.00	183.62	185.80	185.67	186.18	0.010450	2.73	249.24	228.99	0.83
Baganza	14100	TR200	835.00	183.62	185.94	185.82	186.39	0.010756	2.99	282.35	244.44	0.86
Baganza	14000	TR5	227.00	182.60	183.95	183.95	184.24	0.018629	2.41	94.30	158.64	1.00
Baganza	14000	TR10	306.00	182.60	184.11	184.10	184.44	0.017090	2.52	121.62	179.48	0.98
Baganza	14000	TR20	397.00	182.60	184.29	184.25	184.62	0.014464	2.54	156.39	200.95	0.92
Baganza	14000	TR50	542.00	182.60	184.51	184.42	184.88	0.012148	2.71	199.76	203.71	0.87
Baganza	14000	TR100	676.00	182.60	184.68	184.57	185.10	0.011127	2.86	236.23	208.21	0.86
Baganza	14000	TR200	835.00	182.60	184.89	184.73	185.34	0.010247	2.99	279.00	216.51	0.84
Baganza	13900	TR5	227.00	181.10	182.91	182.62	183.10	0.007489	1.95	116.28	139.18	0.67
Baganza	13900	TR10	306.00	181.10	183.06	182.85	183.31	0.007955	2.22	139.29	159.02	0.71
Baganza	13900	TR20	397.00	181.10	183.20	183.02	183.52	0.008651	2.50	163.07	176.68	0.75
Baganza	13900	TR50	542.00	181.10	183.40	183.28	183.80	0.009620	2.84	199.81	197.89	0.81
Baganza	13900	TR100	676.00	181.10	183.54	183.47	184.03	0.010327	3.14	227.97	207.02	0.85
Baganza	13900	TR200	835.00	181.10	183.68	183.67	184.27	0.011253	3.49	257.69	224.18	0.90
Baganza	13800	TR5	227.00	180.47	181.69	181.69	181.97	0.018957	2.34	96.97	172.21	1.00
Baganza	13800	TR10	306.00	180.47	181.84	181.84	182.15	0.018655	2.46	124.35	202.48	1.00
Baganza	13800	TR20	397.00	180.47	181.97	181.97	182.32	0.017818	2.60	152.76	221.38	1.00
Baganza	13800	TR50	542.00	180.47	182.14	182.14	182.55	0.016922	2.84	190.73	232.50	1.00
Baganza	13800	TR100	676.00	180.47	182.28	182.28	182.75	0.016266	3.03	222.99	239.42	1.00
Baganza	13800	TR200	835.00	180.47	182.43	182.43	182.96	0.015442	3.23	258.47	242.58	1.00
Baganza	13700	TR5	227.00	178.46	180.39	180.24	180.58	0.009022	1.91	118.66	163.46	0.72
Baganza	13700	TR10	306.00	178.46	180.55	180.37	180.77	0.009566	2.08	147.39	193.87	0.75
Baganza	13700	TR20	397.00	178.46	180.70	180.54	180.96	0.009387	2.25	178.29	209.12	0.76
Baganza	13700	TR50	542.00	178.46	180.92	180.74	181.22	0.009209	2.43	226.17	234.47	0.77
Baganza	13700	TR100	676.00	178.46	181.09	180.90	181.42	0.008936	2.59	265.87	248.11	0.77
Baganza	13700	TR200	835.00	178.46	181.27	181.06	181.64	0.008669	2.73	312.65	262.70	0.77
Baganza	13675	TR5	227.00	178.52	180.11	180.01	180.32	0.011682	2.02	112.24	172.78	0.80
Baganza	13675	TR10	306.00	178.52	180.24	180.15	180.50	0.012233	2.26	135.11	181.65	0.84
Baganza	13675	TR20	397.00	178.52	180.37	180.29	180.69	0.013019	2.50	158.82	192.95	0.88
Baganza	13675	TR50	542.00	178.52	180.54	180.49	180.94	0.013657	2.81	192.94	203.87	0.92
Baganza	13675	TR100	676.00	178.52	180.69	180.65	181.15	0.013761	2.99	226.46	219.67	0.94
Baganza	13675	TR200	835.00	178.52	180.85	180.81	181.37	0.013532	3.20	260.63	224.46	0.95
Baganza	13650	TR5	227.00	178.36	179.77	179.71	180.00	0.014370	2.13	106.33	176.49	0.88
Baganza	13650	TR10	306.00	178.36	179.91	179.84	180.18	0.013607	2.29	133.78	192.16	0.88
Baganza	13650	TR20	397.00	178.36	180.06	179.98	180.36	0.012851	2.44	162.71	203.20	0.87
Baganza	13650	TR50	542.00	178.36	180.24	180.16	180.61	0.012660	2.69	201.21	214.16	0.89
Baganza	13650	TR100	676.00	178.36	180.38	180.31	180.82	0.012741	2.93	230.52	216.98	0.91
Baganza	13650	TR200	835.00	178.36	180.54	180.47	181.04	0.012807	3.14	266.20	227.28	0.93
Baganza	13625	TR5	227.00	177.81	179.32	179.30	179.61	0.017005	2.38	95.18	151.61	0.96
Baganza	13625	TR10	306.00	177.81	179.47	179.46	179.80	0.016816	2.55	120.03	171.59	0.97
Baganza	13625	TR20	397.00	177.81	179.60	179.59	180.00	0.016909	2.78	143.03	180.70	1.00
Baganza	13625	TR50	542.00	177.81	179.81	179.81	180.25	0.016311	2.95	183.62	205.95	1.00
Baganza	13625	TR100	676.00	177.81	179.96	179.96	180.47	0.015580	3.15	214.39	210.42	1.00
Baganza	13625	TR200	835.00	177.81	180.12	180.12	180.69	0.015128	3.35	249.01	217.94	1.00
Baganza	13600	TR5	227.00	177.50	179.05	178.95	179.26	0.011444	2.04	111.24	166.30	0.80
Baganza	13600	TR10	306.00	177.50	179.19	179.08	179.45	0.012007	2.25	135.91	181.75	0.83
Baganza	13600	TR20	397.00	177.50	179.33	179.24	179.64	0.012424	2.45	161.81	195.13	0.86
Baganza	13600	TR50	542.00	177.50	179.51	179.43	179.89	0.012827	2.74	197.96	207.40	0.89
Baganza	13600	TR100	676.00	177.50	179.65	179.59	180.10	0.013091	2.95	228.93	217.41	0.92
Baganza	13600	TR200	835.00	177.50	179.82	179.76	180.32	0.012973	3.15	264.84	226.40	0.93
Baganza	13575	TR5	227.00	177.35	178.77	178.68	178.97	0.011695	2.00	113.69	178.71	0.80
Baganza	13575	TR10	306.00	177.35	178.91	178.81	179.15	0.011793	2.19	139.67	192.19	0.82
Baganza	13575	TR20	397.00	177.35	179.05	178.94	179.34	0.011558	2.37	167.23	200.93	0.83
Baganza	13575	TR50	542.00	177.35	179.24	179.13	179.59	0.011515	2.62	206.89	213.84	0.85
Baganza	13575	TR100	676.00	177.35	179.38	179.28	179.79	0.011504	2.84	237.69	217.01	0.87
Baganza	13575	TR200	835.00	177.35	179.56	179.44	180.02	0.011076	3.02	276.15	223.52	0.87
Baganza	13550	TR5	227.00	177.09	178.52	178.38	178.70	0.010144	1.90	119.75	182.92	0.75
Baganza	13550	TR10	306.00	177.09	178.68	178.52	178.89	0.009385	2.04	150.08	193.85	0.74
Baganza	13550	TR20	397.00	177.09	178.82	178.65	179.07	0.009799	2.24	177.39	205.78	0.77
Baganza	13550	TR50	542.00	177.09	178.99	178.85	179.32	0.010118	2.52	215.05	213.80	0.80
Baganza	13550	TR100	676.00	177.09	179.14	178.99	179.52	0.010079	2.74	246.66	215.61	0.82
Baganza	13550	TR200	835.00	177.09	179.31	179.15	179.75	0.010629	2.93	285.12	234.78	0.85
Baganza	13525	TR5	227.00	176.88	178.32	178.11	178.48	0.007976	1.77	127.97	180.05	0.67
Baganza	13525	TR10	306.00	176.88	178.50	178.26	178.68	0.007887	1.87	164.03	212.22	0.68
Baganza	13525	TR20	397.00	176.88	178.64	178.42	178.85	0.007717	2.03	195.23	218.31	0.69
Baganza	13525	TR50	542.00	176.88	178.83	178.60	179.10	0.007724	2.29	236.18	220.43	0.71
Baganza	13525	TR100	676.00	176.88	178.98	178.74	179.30	0.008027	2.50	270.18	227.96	0.73
Baganza	13525	TR200	835.00	176.88	179.13	178.90	179.51	0.008398	2.73	305.87	234.22	0.76

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	13500	TR5	227.00	176.59	177.98	177.89	178.23	0.012923	2.18	104.12	154.68	0.85
Baganza	13500	TR10	306.00	176.59	178.16	178.06	178.43	0.013119	2.29	133.69	186.68	0.86
Baganza	13500	TR20	397.00	176.59	178.33	178.23	178.61	0.012241	2.37	167.63	211.11	0.85
Baganza	13500	TR50	542.00	176.59	178.51	178.42	178.86	0.012062	2.60	208.33	225.36	0.86
Baganza	13500	TR100	676.00	176.59	178.70	178.57	179.07	0.011015	2.69	251.76	242.63	0.84
Baganza	13500	TR200	835.00	176.59	178.86	178.73	179.28	0.010872	2.87	290.87	251.10	0.85
Baganza	13473.5	TR5	227.00	176.13	177.55	177.53	177.84	0.016753	2.40	94.75	148.34	0.96
Baganza	13473.5	TR10	306.00	176.13	177.69	177.67	178.04	0.016067	2.64	116.04	152.60	0.96
Baganza	13473.5	TR20	397.00	176.13	177.86	177.85	178.25	0.015803	2.74	144.92	179.02	0.97
Baganza	13473.5	TR50	542.00	176.13	178.10	178.05	178.52	0.013678	2.88	188.89	196.14	0.93
Baganza	13473.5	TR100	676.00	176.13	178.27	178.22	178.74	0.014111	3.04	223.65	219.93	0.95
Baganza	13473.5	TR200	835.00	176.13	178.45	178.40	178.96	0.013101	3.18	263.94	229.52	0.94
Baganza	13448.5	TR5	227.00	175.82	177.23	177.15	177.48	0.012567	2.21	102.89	146.81	0.84
Baganza	13448.5	TR10	306.00	175.82	177.37	177.30	177.68	0.013234	2.45	124.84	158.06	0.88
Baganza	13448.5	TR20	397.00	175.82	177.51	177.45	177.88	0.013574	2.71	146.38	162.17	0.91
Baganza	13448.5	TR50	542.00	175.82	177.72	177.67	178.17	0.014215	2.96	183.09	184.00	0.95
Baganza	13448.5	TR100	676.00	175.82	177.91	177.85	178.40	0.013266	3.11	217.64	193.14	0.93
Baganza	13448.5	TR200	835.00	175.82	178.10	178.03	178.64	0.012253	3.26	255.96	198.79	0.92
Baganza	13423.5	TR5	227.00	175.52	176.95	176.86	177.17	0.011848	2.08	109.23	163.23	0.81
Baganza	13423.5	TR10	306.00	175.52	177.08	177.00	177.36	0.012060	2.34	130.92	166.19	0.84
Baganza	13423.5	TR20	397.00	175.52	177.22	177.13	177.56	0.012150	2.58	153.84	169.25	0.86
Baganza	13423.5	TR50	542.00	175.52	177.41	177.33	177.84	0.012060	2.90	186.84	171.49	0.89
Baganza	13423.5	TR100	676.00	175.52	177.58	177.49	178.08	0.011974	3.15	214.73	173.35	0.90
Baganza	13423.5	TR200	835.00	175.52	177.76	177.68	178.34	0.011789	3.38	246.84	176.78	0.91
Baganza	13400	TR5	227.00	174.95	176.53	176.53	176.83	0.018689	2.42	93.93	157.37	1.00
Baganza	13400	TR10	306.00	174.95	176.66	176.66	177.02	0.017561	2.66	114.98	159.05	1.00
Baganza	13400	TR20	397.00	174.95	176.80	176.80	177.23	0.016585	2.89	137.31	160.69	1.00
Baganza	13400	TR50	542.00	174.95	177.00	177.00	177.52	0.015601	3.20	169.55	163.00	1.00
Baganza	13400	TR100	676.00	174.95	177.17	177.17	177.77	0.014807	3.42	197.45	164.65	1.00
Baganza	13400	TR200	835.00	174.95	177.36	177.36	178.04	0.014153	3.66	228.20	166.46	1.00
Baganza	13330	TR5	227.00	173.97	175.73	175.59	175.93	0.009261	1.95	116.45	159.04	0.73
Baganza	13330	TR10	306.00	173.97	175.88	175.72	176.12	0.009228	2.18	140.60	162.29	0.75
Baganza	13330	TR20	397.00	173.97	176.03	175.86	176.33	0.009337	2.40	165.16	165.69	0.77
Baganza	13330	TR50	542.00	173.97	176.23	176.07	176.61	0.009724	2.73	198.75	170.05	0.81
Baganza	13330	TR100	676.00	173.97	176.38	176.23	176.84	0.010284	3.02	223.59	170.88	0.84
Baganza	13330	TR200	835.00	173.97	176.55	176.42	177.10	0.010453	3.30	253.18	171.85	0.87
Baganza	13300	TR5	227.00	173.81	175.33	175.28	175.58	0.014263	2.25	100.97	153.83	0.89
Baganza	13300	TR10	306.00	173.81	175.45	175.41	175.78	0.014426	2.53	121.02	160.68	0.92
Baganza	13300	TR20	397.00	173.81	175.59	175.57	175.99	0.014152	2.78	144.30	174.61	0.93
Baganza	13300	TR50	542.00	173.81	175.79	175.77	176.27	0.013488	3.08	179.93	182.90	0.94
Baganza	13300	TR100	676.00	173.81	175.97	175.94	176.50	0.012626	3.27	212.26	185.20	0.93
Baganza	13300	TR200	835.00	173.81	176.12	176.12	176.75	0.013153	3.58	240.08	187.22	0.96
Baganza	13200	TR5	227.00	172.68	174.19	174.05	174.42	0.009709	2.12	106.97	133.30	0.76
Baganza	13200	TR10	306.00	172.68	174.37	174.20	174.65	0.009166	2.34	130.69	134.53	0.76
Baganza	13200	TR20	397.00	172.68	174.55	174.36	174.88	0.008824	2.56	155.18	135.90	0.76
Baganza	13200	TR50	542.00	172.68	174.84	174.58	175.23	0.008277	2.77	195.39	144.42	0.76
Baganza	13200	TR100	676.00	172.68	175.05	174.79	175.50	0.008096	2.99	226.41	147.37	0.77
Baganza	13200	TR200	835.00	172.68	175.38	174.99	175.85	0.006521	3.02	276.31	150.11	0.71
Baganza	13100	TR5	227.00	171.73	173.40	173.15	173.61	0.006917	1.99	114.14	121.18	0.65
Baganza	13100	TR10	306.00	171.73	173.61	173.32	173.85	0.006969	2.20	139.30	128.10	0.67
Baganza	13100	TR20	397.00	171.73	173.80	173.50	174.10	0.007068	2.42	163.88	131.50	0.69
Baganza	13100	TR50	542.00	171.73	174.08	173.75	174.44	0.007447	2.68	202.55	145.66	0.72
Baganza	13100	TR100	676.00	171.73	174.26	173.96	174.70	0.007917	2.95	228.87	148.58	0.76
Baganza	13100	TR200	835.00	171.73	174.19	174.19	174.93	0.013858	3.81	218.97	147.47	1.00
Baganza	13000	TR5	227.00	170.53	172.18	172.18	172.58	0.016834	2.80	81.14	100.67	0.99
Baganza	13000	TR10	306.00	170.53	172.38	172.38	172.84	0.016307	2.99	102.22	111.89	1.00
Baganza	13000	TR20	397.00	170.53	172.58	172.58	173.08	0.015662	3.16	125.75	123.30	1.00
Baganza	13000	TR50	542.00	170.53	172.85	172.84	173.43	0.014690	3.36	161.26	137.16	0.99
Baganza	13000	TR100	676.00	170.53	173.08	173.04	173.70	0.012970	3.50	193.14	140.75	0.95
Baganza	13000	TR200	835.00	170.53	173.32	173.23	173.74	0.008193	3.08	309.73	284.41	0.78
Baganza	12900	TR5	227.00	169.38	171.04	170.91	171.29	0.010137	2.21	102.82	124.62	0.78
Baganza	12900	TR10	306.00	169.38	171.20	171.07	171.52	0.010354	2.50	122.45	125.12	0.81
Baganza	12900	TR20	397.00	169.38	171.35	171.23	171.75	0.010825	2.81	141.51	125.61	0.84
Baganza	12900	TR50	542.00	169.38	171.54	171.47	172.09	0.012227	3.29	164.82	126.21	0.92
Baganza	12900	TR100	676.00	169.38	171.68	171.66	172.38	0.013588	3.70	182.62	126.66	0.98
Baganza	12900	TR200	835.00	169.38	171.88	171.88	172.70	0.013414	4.00	208.60	127.32	1.00
Baganza	12800	TR5	227.00	168.51	169.79	169.75	170.04	0.015730	2.23	101.91	169.33	0.92
Baganza	12800	TR10	306.00	168.51	169.90	169.88	170.23	0.016512	2.54	120.32	169.91	0.96
Baganza	12800	TR20	397.00	168.51	170.01	170.01	170.42	0.016727	2.83	140.34	170.55	1.00
Baganza	12800	TR50	542.00	168.51	170.20	170.20	170.71	0.015756	3.14	172.78	171.87	1.00
Baganza	12800	TR100	676.00	168.51	170.36	170.36	170.94	0.015112	3.37	200.40	173.24	1.00
Baganza	12800	TR200	835.00	168.51	170.54	170.54	171.21	0.014424	3.61	231.51	174.76	1.00

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	12700	TR5	227.00	167.09	168.69	168.55	168.85	0.009302	1.80	126.25	195.16	0.71
Baganza	12700	TR10	306.00	167.09	168.82	168.67	169.03	0.009140	2.01	152.08	195.95	0.73
Baganza	12700	TR20	397.00	167.09	168.95	168.79	169.21	0.009182	2.23	177.86	196.77	0.75
Baganza	12700	TR50	542.00	167.09	169.13	168.97	169.46	0.009366	2.54	213.67	197.98	0.78
Baganza	12700	TR100	676.00	167.09	169.27	169.11	169.67	0.009699	2.79	241.90	198.95	0.81
Baganza	12700	TR200	835.00	167.09	169.44	169.28	169.91	0.009971	3.04	274.35	202.67	0.83
Baganza	12600	TR5	227.00	166.08	167.36	167.34	167.61	0.017274	2.24	101.38	179.43	0.95
Baganza	12600	TR10	306.00	166.08	167.47	167.46	167.79	0.017428	2.53	121.19	180.29	0.98
Baganza	12600	TR20	397.00	166.08	167.59	167.59	167.98	0.017029	2.77	143.17	181.88	1.00
Baganza	12600	TR50	542.00	166.08	167.79	167.79	168.25	0.016192	3.02	179.70	193.79	1.00
Baganza	12600	TR100	676.00	166.08	167.95	167.95	168.47	0.015348	3.21	210.57	198.62	1.00
Baganza	12600	TR200	835.00	166.08	168.11	168.11	168.71	0.014792	3.42	244.18	203.78	1.00
Baganza	12500	TR5	227.00	165.10	166.35	166.17	166.50	0.007727	1.72	131.80	189.18	0.66
Baganza	12500	TR10	306.00	165.10	166.49	166.30	166.68	0.007747	1.94	157.85	190.05	0.68
Baganza	12500	TR20	397.00	165.10	166.63	166.42	166.87	0.007755	2.15	184.83	190.90	0.70
Baganza	12500	TR50	542.00	165.10	166.84	166.60	167.14	0.007750	2.41	224.66	194.78	0.72
Baganza	12500	TR100	676.00	165.10	167.00	166.75	167.35	0.007984	2.64	256.19	198.51	0.74
Baganza	12500	TR200	835.00	165.10	167.17	166.92	167.59	0.008270	2.88	289.92	202.26	0.77
Baganza	12400.13	TR5	227.00	163.98	165.04	165.04	165.36	0.018449	2.51	90.54	142.10	1.00
Baganza	12400.13	TR10	306.00	163.98	165.20	165.20	165.57	0.017431	2.70	113.40	152.73	1.00
Baganza	12400.13	TR20	397.00	163.98	165.36	165.36	165.78	0.016475	2.87	138.46	163.18	0.99
Baganza	12400.13	TR50	542.00	163.98	165.59	165.59	166.05	0.016163	3.03	178.89	191.35	1.00
Baganza	12400.13	TR100	676.00	163.98	165.75	165.75	166.27	0.015481	3.21	210.67	200.11	1.00
Baganza	12400.13	TR200	835.00	163.98	165.92	165.92	166.51	0.014812	3.40	245.51	206.70	1.00
Baganza	12324.19	TR5	227.00	162.66	164.33	164.00	164.52	0.005612	1.91	118.81	114.71	0.60
Baganza	12324.19	TR10	306.00	162.66	164.60	164.17	164.80	0.006486	1.99	153.94	156.20	0.64
Baganza	12324.19	TR20	397.00	162.66	164.84	164.38	165.05	0.006288	2.03	195.75	188.37	0.64
Baganza	12324.19	TR50	542.00	162.66	165.13	164.72	165.36	0.005442	2.16	251.28	197.80	0.61
Baganza	12324.19	TR100	676.00	162.66	165.36	164.90	165.62	0.005092	2.26	298.64	207.96	0.60
Baganza	12324.19	TR200	835.00	162.66	165.79	165.07	166.03	0.003295	2.14	390.29	213.29	0.50
Baganza	12313.79	TR5	227.00	162.60	164.30	163.89	164.46	0.005724	1.79	126.76	136.81	0.59
Baganza	12313.79	TR10	306.00	162.60	164.57	164.07	164.74	0.005158	1.81	168.61	165.02	0.57
Baganza	12313.79	TR20	397.00	162.60	164.81	164.33	164.99	0.004921	1.89	209.82	186.17	0.57
Baganza	12313.79	TR50	542.00	162.60	165.10	164.58	165.31	0.004286	2.05	264.74	187.94	0.55
Baganza	12313.79	TR100	676.00	162.60	165.33	164.78	165.57	0.004058	2.20	307.77	188.58	0.55
Baganza	12313.79	TR200	835.00	162.60	165.76	164.95	165.99	0.002853	2.14	389.57	189.81	0.48
Baganza	12313		Bridge									
Baganza	12291.4	TR5	227.00	162.18	163.98	163.76	164.22	0.008119	2.17	104.63	109.76	0.71
Baganza	12291.4	TR10	306.00	162.18	164.23	163.96	164.49	0.008534	2.26	135.15	138.19	0.73
Baganza	12291.4	TR20	397.00	162.18	164.47	164.18	164.75	0.007816	2.32	170.76	157.18	0.71
Baganza	12291.4	TR50	542.00	162.18	164.73	164.44	165.06	0.008022	2.53	214.59	177.92	0.73
Baganza	12291.4	TR100	676.00	162.18	164.92	164.65	165.30	0.007920	2.73	247.64	180.94	0.74
Baganza	12291.4	TR200	835.00	162.18	165.11	164.85	165.56	0.007855	2.95	282.92	182.71	0.76
Baganza	12281	TR5	227.00	162.04	163.74	163.70	164.11	0.015021	2.72	83.48	99.06	0.95
Baganza	12281	TR10	306.00	162.04	163.91	163.91	164.37	0.016059	3.03	101.06	107.25	1.00
Baganza	12281	TR20	397.00	162.04	164.10	164.10	164.64	0.015505	3.25	122.28	113.79	1.00
Baganza	12281	TR50	542.00	162.04	164.43	164.43	164.95	0.015668	3.19	170.05	164.21	1.00
Baganza	12281	TR100	676.00	162.04	164.61	164.61	165.19	0.015120	3.38	200.21	172.62	1.00
Baganza	12281	TR200	835.00	162.04	164.79	164.79	165.45	0.014356	3.59	232.76	176.19	1.00
Baganza	12200	TR5	227.00	161.41	162.91	162.79	163.09	0.010680	1.91	118.57	185.13	0.76
Baganza	12200	TR10	306.00	161.41	163.04	162.92	163.27	0.010469	2.14	142.90	185.79	0.78
Baganza	12200	TR20	397.00	161.41	163.17	163.05	163.46	0.010396	2.37	167.68	186.46	0.80
Baganza	12200	TR50	542.00	161.41	163.35	163.22	163.72	0.010595	2.69	201.39	187.37	0.83
Baganza	12200	TR100	676.00	161.41	163.50	163.38	163.94	0.010903	2.96	228.66	188.76	0.86
Baganza	12200	TR200	835.00	161.41	163.65	163.55	164.18	0.011332	3.25	257.14	189.76	0.89
Baganza	12100	TR5	227.00	160.59	161.77	161.68	161.98	0.011625	2.02	112.45	172.95	0.80
Baganza	12100	TR10	306.00	160.59	161.92	161.81	162.17	0.011692	2.19	139.71	190.95	0.82
Baganza	12100	TR20	397.00	160.59	162.05	161.96	162.35	0.011899	2.40	165.13	198.83	0.84
Baganza	12100	TR50	542.00	160.59	162.24	162.13	162.60	0.011827	2.69	201.77	204.75	0.86
Baganza	12100	TR100	676.00	160.59	162.39	162.29	162.81	0.011727	2.89	233.99	211.55	0.88
Baganza	12100	TR200	835.00	160.59	162.55	162.45	163.04	0.011504	3.11	268.20	213.63	0.89
Baganza	12000	TR5	227.00	159.24	160.52	160.46	160.73	0.013528	2.02	112.34	193.39	0.85
Baganza	12000	TR10	306.00	159.24	160.64	160.58	160.90	0.013795	2.26	135.54	200.48	0.88
Baganza	12000	TR20	397.00	159.24	160.76	160.70	161.07	0.013732	2.50	158.99	201.46	0.90
Baganza	12000	TR50	542.00	159.24	160.92	160.87	161.32	0.013863	2.83	191.84	203.37	0.93
Baganza	12000	TR100	676.00	159.24	161.05	161.02	161.54	0.013985	3.08	219.29	205.32	0.95
Baganza	12000	TR200	835.00	159.24	161.19	161.18	161.77	0.014207	3.36	248.55	206.95	0.98
Baganza	11900	TR5	227.00	158.20	159.45	159.28	159.60	0.009478	1.75	129.39	210.84	0.71
Baganza	11900	TR10	306.00	158.20	159.58	159.43	159.77	0.009366	1.92	159.44	225.03	0.73
Baganza	11900	TR20	397.00	158.20	159.71	159.56	159.94	0.009510	2.11	188.54	234.22	0.75

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	11900	TR50	542.00	158.20	159.88	159.72	160.16	0.009861	2.37	228.39	243.63	0.78
Baganza	11900	TR100	676.00	158.20	160.01	159.86	160.35	0.010190	2.60	260.29	248.52	0.81
Baganza	11900	TR200	835.00	158.20	160.14	160.01	160.55	0.010536	2.84	294.34	252.39	0.84
Baganza	11800	TR5	227.00	157.03	158.12	158.10	158.35	0.017297	2.12	107.04	206.21	0.94
Baganza	11800	TR10	306.00	157.03	158.25	158.23	158.51	0.017784	2.29	133.42	233.36	0.97
Baganza	11800	TR20	397.00	157.03	158.35	158.35	158.67	0.017636	2.51	158.23	240.34	0.99
Baganza	11800	TR50	542.00	157.03	158.50	158.50	158.90	0.016870	2.79	194.49	244.10	1.00
Baganza	11800	TR100	676.00	157.03	158.63	158.63	159.08	0.016154	2.98	226.73	248.91	1.00
Baganza	11800	TR200	835.00	157.03	158.77	158.77	159.29	0.015467	3.19	261.41	250.48	1.00
Baganza	11700	TR5	227.00	155.80	156.96	156.83	157.09	0.009580	1.63	138.89	253.82	0.71
Baganza	11700	TR10	306.00	155.80	157.07	156.94	157.24	0.009564	1.83	167.02	256.81	0.73
Baganza	11700	TR20	397.00	155.80	157.18	157.04	157.39	0.009756	2.04	194.74	258.90	0.75
Baganza	11700	TR50	542.00	155.80	157.32	157.19	157.60	0.010186	2.33	232.77	261.81	0.79
Baganza	11700	TR100	676.00	155.80	157.45	157.31	157.78	0.010432	2.55	265.03	264.68	0.81
Baganza	11700	TR200	835.00	155.80	157.57	157.45	157.97	0.010804	2.80	298.74	266.98	0.84
Baganza	11500	TR5	227.00	153.30	154.28	154.27	154.49	0.018678	2.02	112.60	247.87	0.95
Baganza	11500	TR10	306.00	153.30	154.37	154.37	154.64	0.018727	2.27	134.78	248.75	0.98
Baganza	11500	TR20	397.00	153.30	154.47	154.47	154.79	0.018206	2.49	159.16	249.70	1.00
Baganza	11500	TR50	542.00	153.30	154.62	154.62	155.01	0.017044	2.76	196.15	251.15	1.00
Baganza	11500	TR100	676.00	153.30	154.75	154.75	155.19	0.016420	2.96	228.55	256.89	1.00
Baganza	11500	TR200	835.00	153.30	154.89	154.89	155.39	0.015620	3.15	264.68	260.12	1.00
Baganza	11400	TR5	227.00	151.72	153.08	152.90	153.23	0.009109	1.70	133.37	220.96	0.70
Baganza	11400	TR10	306.00	151.72	153.22	153.06	153.40	0.008803	1.85	165.06	234.45	0.71
Baganza	11400	TR20	397.00	151.72	153.36	153.18	153.56	0.008232	2.00	198.01	237.76	0.70
Baganza	11400	TR50	542.00	151.72	153.55	153.34	153.80	0.008003	2.23	242.69	242.67	0.71
Baganza	11400	TR100	676.00	151.72	153.71	153.47	154.00	0.007902	2.40	282.04	251.22	0.72
Baganza	11400	TR200	835.00	151.72	153.88	153.62	154.21	0.007681	2.57	325.15	255.64	0.73
Baganza	11300	TR5	227.00	150.47	151.98	151.90	152.18	0.012143	2.00	113.77	184.29	0.81
Baganza	11300	TR10	306.00	150.47	152.10	152.02	152.36	0.012493	2.26	135.55	186.37	0.84
Baganza	11300	TR20	397.00	150.47	152.21	152.14	152.54	0.013198	2.53	156.91	189.45	0.89
Baganza	11300	TR50	542.00	150.47	152.39	152.33	152.80	0.012875	2.82	192.30	193.78	0.90
Baganza	11300	TR100	676.00	150.47	152.55	152.48	153.02	0.012451	3.04	222.35	195.02	0.91
Baganza	11300	TR200	835.00	150.47	152.72	152.64	153.26	0.012067	3.27	255.51	196.37	0.91
Baganza	11200	TR5	227.00	149.11	150.84	150.71	151.04	0.010777	1.96	115.82	175.71	0.77
Baganza	11200	TR10	306.00	149.11	151.00	150.86	151.23	0.010158	2.11	145.23	189.09	0.77
Baganza	11200	TR20	397.00	149.11	151.15	151.00	151.42	0.009577	2.29	173.45	190.82	0.77
Baganza	11200	TR50	542.00	149.11	151.33	151.18	151.68	0.009864	2.61	207.90	192.34	0.80
Baganza	11200	TR100	676.00	149.11	151.48	151.33	151.90	0.010205	2.85	237.49	197.54	0.83
Baganza	11200	TR200	835.00	149.11	151.65	151.50	152.13	0.010557	3.07	271.55	206.29	0.86
Baganza	11100	TR5	227.00	148.18	149.53	149.47	149.79	0.014779	2.25	101.06	158.17	0.90
Baganza	11100	TR10	306.00	148.18	149.66	149.63	149.98	0.015925	2.49	122.71	173.62	0.95
Baganza	11100	TR20	397.00	148.18	149.78	149.78	150.17	0.017064	2.77	143.54	183.07	1.00
Baganza	11100	TR50	542.00	148.18	149.96	149.96	150.43	0.016215	3.03	178.85	191.34	1.00
Baganza	11100	TR100	676.00	148.18	150.11	150.11	150.65	0.015517	3.26	207.24	192.00	1.00
Baganza	11100	TR200	835.00	148.18	150.28	150.28	150.90	0.014697	3.49	239.53	192.75	1.00
Baganza	11000	TR5	227.00	146.95	148.53	148.36	148.69	0.008349	1.78	127.49	184.28	0.68
Baganza	11000	TR10	306.00	146.95	148.69	148.49	148.88	0.007931	1.96	155.92	187.35	0.69
Baganza	11000	TR20	397.00	146.95	148.85	148.62	149.08	0.007438	2.12	187.12	190.57	0.68
Baganza	11000	TR50	542.00	146.95	149.09	148.80	149.37	0.006912	2.31	234.15	197.98	0.68
Baganza	11000	TR100	676.00	146.95	149.27	148.96	149.59	0.006778	2.51	269.39	198.76	0.69
Baganza	11000	TR200	835.00	146.95	149.44	149.13	149.83	0.007013	2.75	303.19	199.52	0.71
Baganza	10900	TR5	227.00	146.31	147.46	147.36	147.72	0.011539	2.28	99.62	127.15	0.82
Baganza	10900	TR10	306.00	146.31	147.62	147.51	147.95	0.011161	2.53	121.02	128.83	0.83
Baganza	10900	TR20	397.00	146.31	147.81	147.67	148.19	0.010954	2.74	145.10	135.27	0.84
Baganza	10900	TR50	542.00	146.31	148.12	147.94	148.52	0.010536	2.82	192.08	166.05	0.84
Baganza	10900	TR100	676.00	146.31	148.38	148.16	148.79	0.009688	2.81	240.16	195.67	0.81
Baganza	10900	TR200	835.00	146.31	148.64	148.38	149.05	0.008547	2.85	293.06	213.40	0.78
Baganza	10800	TR5	227.00	145.05	146.34	146.23	146.60	0.010919	2.24	101.41	126.98	0.80
Baganza	10800	TR10	306.00	145.05	146.49	146.39	146.82	0.011435	2.55	119.89	127.57	0.84
Baganza	10800	TR20	397.00	145.05	146.64	146.54	147.05	0.011723	2.85	139.42	128.18	0.87
Baganza	10800	TR50	542.00	145.05	146.85	146.78	147.39	0.012184	3.25	166.60	129.00	0.91
Baganza	10800	TR100	676.00	145.05	147.01	146.97	147.68	0.012906	3.61	187.28	129.46	0.96
Baganza	10800	TR200	835.00	145.05	147.19	147.19	147.99	0.013496	3.97	210.16	129.98	1.00
Baganza	10700	TR5	227.00	143.85	145.17	145.09	145.43	0.012643	2.24	101.21	141.25	0.85
Baganza	10700	TR10	306.00	143.85	145.32	145.24	145.64	0.012213	2.50	122.50	141.63	0.86
Baganza	10700	TR20	397.00	143.85	145.47	145.39	145.86	0.012170	2.77	143.56	142.04	0.88
Baganza	10700	TR50	542.00	143.85	145.68	145.60	146.18	0.012085	3.12	173.87	142.87	0.90
Baganza	10700	TR100	676.00	143.85	145.87	145.78	146.45	0.011678	3.36	201.03	143.61	0.91
Baganza	10700	TR200	835.00	143.85	146.08	145.98	146.75	0.011436	3.61	231.01	145.72	0.92
Baganza	10600	TR5	227.00	142.60	144.11	143.93	144.33	0.009540	2.11	107.67	133.38	0.75
Baganza	10600	TR10	306.00	142.60	144.29	144.11	144.56	0.009660	2.31	132.67	144.88	0.77

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	10600	TR20	397.00	142.60	144.46	144.29	144.78	0.009622	2.50	158.82	153.15	0.78
Baganza	10600	TR50	542.00	142.60	144.67	144.51	145.08	0.009991	2.85	190.10	154.67	0.82
Baganza	10600	TR100	676.00	142.60	144.82	144.68	145.33	0.010729	3.15	214.78	158.84	0.86
Baganza	10600	TR200	835.00	142.60	145.01	144.88	145.60	0.011417	3.42	244.35	167.28	0.90
Baganza	10500	TR5	227.00	141.15	142.97	142.91	143.20	0.013745	2.10	108.17	177.77	0.86
Baganza	10500	TR10	306.00	141.15	143.08	143.04	143.37	0.014926	2.41	126.83	179.81	0.92
Baganza	10500	TR20	397.00	141.15	143.18	143.16	143.56	0.015977	2.73	145.46	180.36	0.97
Baganza	10500	TR50	542.00	141.15	143.35	143.35	143.83	0.016049	3.09	175.46	181.24	1.00
Baganza	10500	TR100	676.00	141.15	143.50	143.50	144.06	0.015195	3.31	204.05	182.07	1.00
Baganza	10500	TR200	835.00	141.15	143.67	143.67	144.32	0.014630	3.55	234.91	183.28	1.00
Baganza	10400	TR5	227.00	140.20	141.84	141.73	142.00	0.010522	1.77	128.60	224.05	0.74
Baganza	10400	TR10	306.00	140.20	141.97	141.84	142.16	0.010070	1.95	156.93	227.79	0.75
Baganza	10400	TR20	397.00	140.20	142.09	141.95	142.32	0.009850	2.15	184.86	228.32	0.76
Baganza	10400	TR50	542.00	140.20	142.26	142.11	142.56	0.009583	2.41	225.00	229.07	0.78
Baganza	10400	TR100	676.00	140.20	142.41	142.24	142.76	0.009292	2.60	259.60	229.71	0.78
Baganza	10400	TR200	835.00	140.20	142.58	142.39	142.98	0.008998	2.80	297.94	230.43	0.79
Baganza	10300	TR5	227.00	139.21	140.72	140.63	140.90	0.011415	1.88	120.82	204.04	0.78
Baganza	10300	TR10	306.00	139.21	140.84	140.75	141.07	0.011914	2.12	144.10	209.14	0.82
Baganza	10300	TR20	397.00	139.21	140.95	140.86	141.24	0.012058	2.36	168.29	210.47	0.84
Baganza	10300	TR50	542.00	139.21	141.11	141.03	141.48	0.012316	2.68	202.48	212.85	0.88
Baganza	10300	TR100	676.00	139.21	141.24	141.17	141.68	0.012622	2.94	230.14	214.34	0.90
Baganza	10300	TR200	835.00	139.21	141.38	141.33	141.91	0.013029	3.22	259.31	215.45	0.94
Baganza	10200	TR5	227.00	138.27	139.55	139.46	139.74	0.011769	1.96	115.92	188.35	0.80
Baganza	10200	TR10	306.00	138.27	139.69	139.58	139.92	0.010950	2.15	142.00	189.29	0.79
Baganza	10200	TR20	397.00	138.27	139.83	139.70	140.11	0.010553	2.36	168.20	190.23	0.80
Baganza	10200	TR50	542.00	138.27	140.03	139.88	140.38	0.009898	2.61	207.88	192.96	0.80
Baganza	10200	TR100	676.00	138.27	140.21	140.03	140.61	0.009269	2.78	243.24	195.27	0.79
Baganza	10200	TR200	835.00	138.27	140.42	140.20	140.86	0.008589	2.95	283.34	196.69	0.78
Baganza	10100	TR5	227.00	136.99	138.46	138.33	138.67	0.009915	2.03	111.66	150.48	0.75
Baganza	10100	TR10	306.00	136.99	138.62	138.47	138.87	0.010136	2.23	136.95	162.82	0.78
Baganza	10100	TR20	397.00	136.99	138.76	138.62	139.07	0.010191	2.47	160.65	164.89	0.80
Baganza	10100	TR50	542.00	136.99	138.95	138.82	139.36	0.010553	2.81	192.87	167.54	0.84
Baganza	10100	TR100	676.00	136.99	139.10	138.99	139.59	0.011222	3.12	216.87	168.85	0.88
Baganza	10100	TR200	835.00	136.99	139.25	139.17	139.85	0.012050	3.45	242.25	171.09	0.92
Baganza	10000	TR5	227.00	135.64	137.24	137.19	137.46	0.014884	2.07	109.42	194.26	0.88
Baganza	10000	TR10	306.00	135.64	137.35	137.32	137.63	0.015545	2.35	130.23	198.12	0.93
Baganza	10000	TR20	397.00	135.64	137.45	137.44	137.81	0.016109	2.63	150.79	198.59	0.96
Baganza	10000	TR50	542.00	135.64	137.61	137.61	138.06	0.016186	2.98	181.78	199.30	1.00
Baganza	10000	TR100	676.00	135.64	137.75	137.75	138.28	0.015639	3.22	209.99	199.95	1.00
Baganza	10000	TR200	835.00	135.64	137.91	137.91	138.52	0.014884	3.44	242.39	200.83	1.00
Baganza	9900	TR5	227.00	134.89	136.14	135.99	136.32	0.009117	1.84	123.22	181.08	0.71
Baganza	9900	TR10	306.00	134.89	136.31	136.12	136.51	0.008495	1.98	154.52	193.15	0.71
Baganza	9900	TR20	397.00	134.89	136.46	136.26	136.70	0.008090	2.16	183.93	194.67	0.71
Baganza	9900	TR50	542.00	134.89	136.67	136.44	136.96	0.007940	2.42	224.24	197.39	0.72
Baganza	9900	TR100	676.00	134.89	136.83	136.59	137.18	0.007911	2.63	256.71	198.10	0.74
Baganza	9900	TR200	835.00	134.89	137.02	136.75	137.43	0.007690	2.84	294.43	198.95	0.74
Baganza	9800	TR5	227.00	133.42	134.95	134.88	135.22	0.013411	2.29	99.11	140.23	0.87
Baganza	9800	TR10	306.00	133.42	135.09	135.04	135.43	0.014199	2.58	118.56	146.34	0.92
Baganza	9800	TR20	397.00	133.42	135.25	135.19	135.64	0.014351	2.79	142.15	157.09	0.94
Baganza	9800	TR50	542.00	133.42	135.46	135.42	135.93	0.013886	3.04	178.57	169.92	0.95
Baganza	9800	TR100	676.00	133.42	135.63	135.59	136.17	0.013309	3.26	207.24	171.42	0.95
Baganza	9800	TR200	835.00	133.42	135.81	135.77	136.44	0.013386	3.52	237.22	175.77	0.97
Baganza	9700	TR5	227.00	132.35	133.99	133.82	134.17	0.008485	1.88	121.05	163.87	0.70
Baganza	9700	TR10	306.00	132.35	134.15	133.96	134.37	0.008201	2.07	148.11	169.01	0.70
Baganza	9700	TR20	397.00	132.35	134.30	134.10	134.57	0.008395	2.29	173.03	171.67	0.73
Baganza	9700	TR50	542.00	132.35	134.50	134.30	134.85	0.008735	2.60	208.62	176.95	0.76
Baganza	9700	TR100	676.00	132.35	134.67	134.46	135.08	0.009191	2.82	239.41	186.19	0.79
Baganza	9700	TR200	835.00	132.35	134.85	134.66	135.33	0.009329	3.06	273.24	190.87	0.82
Baganza	9600	TR5	227.00	131.42	132.78	132.74	133.03	0.015918	2.24	101.18	167.98	0.92
Baganza	9600	TR10	306.00	131.42	132.88	132.88	133.22	0.017471	2.56	119.60	174.82	0.99
Baganza	9600	TR20	397.00	131.42	133.01	133.01	133.41	0.017054	2.81	141.51	176.88	1.00
Baganza	9600	TR50	542.00	131.42	133.19	133.19	133.68	0.016140	3.12	173.95	178.19	1.01
Baganza	9600	TR100	676.00	131.42	133.35	133.35	133.92	0.015227	3.34	202.65	179.33	1.00
Baganza	9600	TR200	835.00	131.42	133.52	133.52	134.17	0.014683	3.58	233.20	180.55	1.01
Baganza	9500	TR5	227.00	130.63	131.92	131.71	132.05	0.006628	1.58	143.67	209.06	0.61
Baganza	9500	TR10	306.00	130.63	132.08	131.83	132.23	0.006302	1.74	175.94	213.35	0.61
Baganza	9500	TR20	397.00	130.63	132.23	131.95	132.42	0.005948	1.90	209.48	213.75	0.61
Baganza	9500	TR50	542.00	130.63	132.47	132.12	132.69	0.005476	2.09	259.21	214.33	0.61
Baganza	9500	TR100	676.00	130.63	132.65	132.26	132.91	0.005316	2.26	298.93	214.80	0.61
Baganza	9500	TR200	835.00	130.63	132.86	132.41	133.16	0.005141	2.43	343.16	215.31	0.62
Baganza	9400	TR5	227.00	129.54	130.87	130.81	131.12	0.013916	2.24	101.35	152.53	0.88

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	9400	TR10	306.00	129.54	130.99	130.95	131.32	0.014237	2.53	120.80	153.74	0.91
Baganza	9400	TR20	397.00	129.54	131.12	131.09	131.53	0.014660	2.83	140.43	154.94	0.95
Baganza	9400	TR50	542.00	129.54	131.30	131.29	131.83	0.015384	3.23	167.72	156.94	1.00
Baganza	9400	TR100	676.00	129.54	131.47	131.47	132.08	0.014779	3.48	194.51	158.32	1.00
Baganza	9400	TR200	835.00	129.54	131.66	131.66	132.36	0.014045	3.71	224.93	159.56	1.00
Baganza	9300	TR5	227.00	128.79	129.93	129.76	130.09	0.007998	1.77	128.05	180.80	0.67
Baganza	9300	TR10	306.00	128.79	130.07	129.88	130.27	0.008104	2.00	153.29	182.90	0.70
Baganza	9300	TR20	397.00	128.79	130.22	130.01	130.46	0.008123	2.20	180.76	187.18	0.71
Baganza	9300	TR50	542.00	128.79	130.43	130.20	130.73	0.008178	2.44	222.33	197.82	0.73
Baganza	9300	TR100	676.00	128.79	130.61	130.36	130.96	0.008176	2.61	258.54	207.02	0.75
Baganza	9300	TR200	835.00	128.79	130.84	130.54	131.22	0.007449	2.71	307.86	217.53	0.73
Baganza	9200	TR5	227.00	127.44	128.75	128.71	129.01	0.015365	2.26	100.24	160.02	0.91
Baganza	9200	TR10	306.00	127.44	128.88	128.84	129.20	0.014692	2.51	121.85	161.02	0.92
Baganza	9200	TR20	397.00	127.44	129.02	128.98	129.41	0.014257	2.75	144.11	162.02	0.93
Baganza	9200	TR50	542.00	127.44	129.22	129.18	129.70	0.013495	3.06	177.24	163.43	0.94
Baganza	9200	TR100	676.00	127.44	129.40	129.35	129.95	0.012848	3.28	206.09	164.80	0.94
Baganza	9200	TR200	835.00	127.44	129.53	129.53	130.22	0.014227	3.67	227.47	165.81	1.00
Baganza	9100	TR5	227.00	126.29	127.80	127.61	127.97	0.007466	1.84	123.47	156.75	0.66
Baganza	9100	TR10	306.00	126.29	127.95	127.74	128.17	0.007668	2.09	146.75	157.31	0.69
Baganza	9100	TR20	397.00	126.29	128.10	127.88	128.38	0.007772	2.32	171.16	157.89	0.71
Baganza	9100	TR50	542.00	126.29	128.37	128.09	128.70	0.007754	2.53	214.52	173.66	0.73
Baganza	9100	TR100	676.00	126.29	128.74	128.26	129.01	0.007169	2.32	291.82	253.79	0.69
Baganza	9100	TR200	835.00	126.29	128.96	128.53	129.25	0.006501	2.37	352.03	274.56	0.67
Baganza	9000	TR5	227.00	125.55	126.83	126.72	127.08	0.010844	2.20	103.04	131.72	0.80
Baganza	9000	TR10	306.00	125.55	127.02	126.87	127.31	0.009620	2.39	128.14	132.58	0.78
Baganza	9000	TR20	397.00	125.55	127.23	127.03	127.56	0.008623	2.56	155.28	133.51	0.76
Baganza	9000	TR50	542.00	125.55	127.53	127.25	127.92	0.007810	2.77	195.53	138.12	0.74
Baganza	9000	TR100	676.00	125.55	127.86	127.44	128.24	0.008247	2.73	247.52	186.41	0.76
Baganza	9000	TR200	835.00	125.55	128.16	127.73	128.52	0.008216	2.65	315.11	247.88	0.75
Baganza	8900	TR5	227.00	124.42	126.09	125.80	126.28	0.006115	1.97	115.13	112.88	0.62
Baganza	8900	TR10	306.00	124.42	126.27	125.97	126.53	0.006532	2.24	136.33	115.61	0.66
Baganza	8900	TR20	397.00	124.42	126.47	126.15	126.78	0.007070	2.48	159.83	123.50	0.70
Baganza	8900	TR50	542.00	124.42	126.77	126.42	127.14	0.007734	2.70	200.41	145.84	0.74
Baganza	8900	TR100	676.00	124.42	127.00	126.67	127.41	0.008288	2.87	235.83	165.71	0.77
Baganza	8900	TR200	835.00	124.42	127.18	126.93	127.68	0.008535	3.13	266.62	167.67	0.79
Baganza	8800	TR5	227.00	123.64	124.96	124.96	125.31	0.017813	2.61	87.07	125.63	1.00
Baganza	8800	TR10	306.00	123.64	125.13	125.13	125.54	0.016929	2.81	109.07	135.72	1.00
Baganza	8800	TR20	397.00	123.64	125.29	125.29	125.76	0.016018	3.03	131.14	139.65	1.00
Baganza	8800	TR50	542.00	123.64	125.54	125.54	126.08	0.015626	3.25	166.73	156.62	1.01
Baganza	8800	TR100	676.00	123.64	125.74	125.74	126.32	0.014901	3.40	198.97	168.80	1.00
Baganza	8800	TR200	835.00	123.64	125.93	125.93	126.59	0.014512	3.58	233.56	179.95	1.00
Baganza	8700	TR5	227.00	122.46	124.10	123.81	124.23	0.005129	1.59	142.38	168.89	0.55
Baganza	8700	TR10	306.00	122.46	124.28	123.94	124.44	0.005251	1.77	173.20	179.28	0.57
Baganza	8700	TR20	397.00	122.46	124.45	124.08	124.64	0.005401	1.94	204.68	188.13	0.59
Baganza	8700	TR50	542.00	122.46	124.67	124.29	124.92	0.005674	2.19	247.02	195.81	0.62
Baganza	8700	TR100	676.00	122.46	124.87	124.46	125.15	0.005892	2.37	285.78	208.18	0.64
Baganza	8700	TR200	835.00	122.46	125.06	124.64	125.39	0.006066	2.55	328.08	218.88	0.66
Baganza	8600	TR5	227.00	121.60	123.05	123.04	123.36	0.017779	2.50	90.73	138.66	0.99
Baganza	8600	TR10	306.00	121.60	123.22	123.21	123.57	0.017302	2.62	117.01	164.01	0.99
Baganza	8600	TR20	397.00	121.60	123.37	123.37	123.76	0.017140	2.76	143.91	184.94	1.00
Baganza	8600	TR50	542.00	121.60	123.55	123.55	124.02	0.016205	3.04	178.16	189.57	1.00
Baganza	8600	TR100	676.00	121.60	123.71	123.71	124.25	0.015546	3.26	207.30	192.67	1.00
Baganza	8600	TR200	835.00	121.60	123.91	123.91	124.49	0.015010	3.37	247.70	213.43	1.00
Baganza	8500	TR5	227.00	120.43	121.99	121.84	122.15	0.008795	1.76	129.12	197.89	0.69
Baganza	8500	TR10	306.00	120.43	122.11	121.96	122.32	0.009472	2.01	151.87	200.51	0.74
Baganza	8500	TR20	397.00	120.43	122.23	122.09	122.49	0.009750	2.24	177.23	203.94	0.77
Baganza	8500	TR50	542.00	120.43	122.41	122.26	122.74	0.009815	2.54	213.58	204.77	0.79
Baganza	8500	TR100	676.00	120.43	122.56	122.41	122.95	0.009971	2.78	243.24	205.86	0.82
Baganza	8500	TR200	835.00	120.43	122.75	122.56	123.19	0.009632	2.95	283.07	213.37	0.82
Baganza	8400	TR5	227.00	119.19	120.81	120.77	121.02	0.015165	2.03	112.06	208.76	0.88
Baganza	8400	TR10	306.00	119.19	120.95	120.88	121.19	0.013732	2.18	140.60	218.33	0.87
Baganza	8400	TR20	397.00	119.19	121.07	121.01	121.35	0.013432	2.35	169.04	230.32	0.88
Baganza	8400	TR50	542.00	119.19	121.22	121.17	121.58	0.013956	2.67	202.93	234.60	0.92
Baganza	8400	TR100	676.00	119.19	121.34	121.30	121.77	0.014119	2.91	232.50	238.68	0.94
Baganza	8400	TR200	835.00	119.19	121.45	121.45	121.98	0.015576	3.24	257.33	241.17	1.00
Baganza	8300	TR5	227.00	118.19	119.64	119.50	119.82	0.009703	1.89	120.31	177.91	0.73
Baganza	8300	TR10	306.00	118.19	119.81	119.63	120.01	0.010220	2.00	153.38	216.99	0.76
Baganza	8300	TR20	397.00	118.19	119.96	119.79	120.18	0.010256	2.11	188.41	246.31	0.77
Baganza	8300	TR50	542.00	118.19	120.14	119.99	120.41	0.009969	2.31	234.89	262.31	0.78
Baganza	8300	TR100	676.00	118.19	120.27	120.12	120.59	0.010054	2.51	268.88	265.68	0.80
Baganza	8300	TR200	835.00	118.19	120.54	120.26	120.85	0.007025	2.44	342.57	270.90	0.69



HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	8200	TR5	227.00	117.43	118.78	118.61	118.93	0.008214	1.71	132.52	200.88	0.67
Baganza	8200	TR10	306.00	117.43	118.93	118.74	119.11	0.008038	1.89	162.20	209.23	0.68
Baganza	8200	TR20	397.00	117.43	119.07	118.86	119.28	0.007962	2.07	191.67	213.37	0.70
Baganza	8200	TR50	542.00	117.43	119.27	119.03	119.54	0.007677	2.29	237.02	221.33	0.71
Baganza	8200	TR100	676.00	117.43	119.47	119.18	119.76	0.006901	2.41	280.55	223.56	0.69
Baganza	8200	TR200	835.00	117.43	119.38	119.33	119.90	0.013328	3.20	260.92	222.56	0.94
Baganza	8100	TR5	227.00	116.55	117.89	117.73	118.08	0.008830	1.91	118.75	161.37	0.71
Baganza	8100	TR10	306.00	116.55	118.06	117.87	118.28	0.008447	2.10	145.63	166.07	0.72
Baganza	8100	TR20	397.00	116.55	118.24	118.01	118.50	0.007745	2.25	176.44	170.11	0.71
Baganza	8100	TR50	542.00	116.55	118.54	118.22	118.83	0.006658	2.38	228.18	181.06	0.68
Baganza	8100	TR100	676.00	116.55	118.73	118.38	119.06	0.007153	2.54	266.52	202.27	0.71
Baganza	8100	TR200	835.00	116.55	118.91	118.60	119.14	0.004865	2.27	423.90	411.83	0.59
Baganza	8000	TR5	227.00	115.58	116.97	116.81	117.19	0.008975	2.10	108.33	129.40	0.73
Baganza	8000	TR10	306.00	115.58	117.14	116.96	117.42	0.008864	2.35	130.35	129.96	0.75
Baganza	8000	TR20	397.00	115.58	117.29	117.12	117.64	0.009480	2.65	149.61	130.45	0.79
Baganza	8000	TR50	542.00	115.58	117.64	117.35	118.00	0.010376	2.67	202.67	187.07	0.82
Baganza	8000	TR100	676.00	115.58	117.85	117.66	118.24	0.009434	2.77	244.22	199.33	0.80
Baganza	8000	TR200	835.00	115.58	118.03	117.84	118.49	0.009291	2.98	279.84	201.71	0.81
Baganza	7900	TR5	227.00	114.67	115.99	115.86	116.23	0.010431	2.17	104.68	133.44	0.78
Baganza	7900	TR10	306.00	114.67	116.17	116.02	116.45	0.010640	2.35	130.20	149.29	0.80
Baganza	7900	TR20	397.00	114.67	116.35	116.20	116.67	0.010016	2.50	158.99	159.07	0.80
Baganza	7900	TR50	542.00	114.67	116.60	116.42	116.97	0.010188	2.70	200.52	180.38	0.82
Baganza	7900	TR100	676.00	114.67	116.82	116.62	117.21	0.011535	2.74	246.93	239.17	0.86
Baganza	7900	TR200	835.00	114.67	117.03	116.88	117.42	0.012379	2.77	301.40	302.38	0.89
Baganza	7800	TR5	227.00	113.45	114.89	114.80	115.11	0.011954	2.10	108.20	160.39	0.82
Baganza	7800	TR10	306.00	113.45	115.01	114.93	115.30	0.012399	2.38	128.63	162.26	0.85
Baganza	7800	TR20	397.00	113.45	115.13	115.07	115.50	0.013916	2.70	146.99	167.15	0.92
Baganza	7800	TR50	542.00	113.45	115.33	115.29	115.78	0.014244	2.98	182.18	182.34	0.95
Baganza	7800	TR100	676.00	113.45	115.57	115.48	116.01	0.012322	2.94	229.68	209.60	0.90
Baganza	7800	TR200	835.00	113.45	115.80	115.66	116.25	0.010971	3.00	278.17	225.92	0.86
Baganza	7700	TR5	227.00	112.72	113.93	113.76	114.10	0.008713	1.81	125.12	181.77	0.70
Baganza	7700	TR10	306.00	112.72	114.07	113.90	114.28	0.008596	2.03	150.57	182.57	0.71
Baganza	7700	TR20	397.00	112.72	114.24	114.03	114.48	0.007721	2.18	182.28	183.76	0.70
Baganza	7700	TR50	542.00	112.72	114.46	114.21	114.76	0.007634	2.44	222.32	187.61	0.71
Baganza	7700	TR100	676.00	112.72	114.57	114.36	114.96	0.009056	2.78	243.28	191.77	0.79
Baganza	7700	TR200	835.00	112.72	114.70	114.54	115.19	0.010301	3.11	268.40	196.69	0.85
Baganza	7600	TR5	227.00	111.61	113.09	112.89	113.27	0.007939	1.88	120.78	155.14	0.68
Baganza	7600	TR10	306.00	111.61	113.27	113.04	113.48	0.007429	2.05	149.19	159.94	0.68
Baganza	7600	TR20	397.00	111.61	113.51	113.18	113.73	0.007310	2.09	190.39	196.84	0.68
Baganza	7600	TR50	542.00	111.61	113.85	113.40	114.04	0.006898	1.90	284.99	324.21	0.65
Baganza	7600	TR100	676.00	111.61	114.03	113.70	114.22	0.006126	1.97	342.36	336.78	0.63
Baganza	7600	TR200	835.00	111.61	114.16	113.85	114.39	0.006347	2.16	387.32	342.99	0.65
Baganza	7500	TR5	227.00	110.72	112.25	112.06	112.46	0.008241	2.03	111.60	130.85	0.70
Baganza	7500	TR10	306.00	110.72	112.42	112.22	112.68	0.008621	2.26	135.46	140.31	0.73
Baganza	7500	TR20	397.00	110.72	112.60	112.39	112.91	0.009334	2.46	161.15	155.52	0.77
Baganza	7500	TR50	542.00	110.72	112.87	112.65	113.22	0.009902	2.62	206.72	189.94	0.80
Baganza	7500	TR100	676.00	110.72	113.14	112.87	113.46	0.009693	2.51	269.14	259.82	0.79
Baganza	7500	TR200	835.00	110.72	113.39	113.12	113.70	0.007525	2.50	334.54	269.60	0.72
Baganza	7470	TR5	227.00	110.52	111.97	111.83	112.19	0.009910	2.10	108.32	139.57	0.76
Baganza	7470	TR10	306.00	110.52	112.13	111.98	112.40	0.010357	2.31	132.19	151.65	0.79
Baganza	7470	TR20	397.00	110.52	112.28	112.14	112.61	0.010598	2.56	155.32	156.22	0.82
Baganza	7470	TR50	542.00	110.52	112.51	112.36	112.91	0.010300	2.82	191.87	162.57	0.83
Baganza	7470	TR100	676.00	110.52	112.73	112.54	113.17	0.009900	2.94	230.01	178.28	0.83
Baganza	7470	TR200	835.00	110.52	113.07	112.76	113.45	0.009383	2.76	302.60	247.85	0.80
Baganza	7400	TR5	227.00	109.45	111.23	111.12	111.46	0.010923	2.12	107.03	145.88	0.79
Baganza	7400	TR10	306.00	109.45	111.39	111.27	111.67	0.010443	2.35	130.45	147.78	0.80
Baganza	7400	TR20	397.00	109.45	111.56	111.41	111.89	0.009911	2.55	155.79	149.82	0.80
Baganza	7400	TR50	542.00	109.45	111.81	111.62	112.21	0.009902	2.80	193.40	161.16	0.82
Baganza	7400	TR100	676.00	109.45	111.95	111.82	112.45	0.010799	3.11	217.38	165.39	0.87
Baganza	7400	TR200	835.00	109.45	112.08	112.02	112.70	0.012322	3.50	238.46	167.61	0.94
Baganza	7300	TR5	227.00	108.77	110.50	110.18	110.66	0.006142	1.78	127.60	147.00	0.61
Baganza	7300	TR10	306.00	108.77	110.72	110.34	110.90	0.005936	1.89	162.27	166.93	0.61
Baganza	7300	TR20	397.00	108.77	110.94	110.55	111.13	0.006011	1.97	201.62	196.20	0.62
Baganza	7300	TR50	542.00	108.77	111.17	110.79	111.41	0.006558	2.18	249.04	222.68	0.66
Baganza	7300	TR100	676.00	108.77	111.36	110.98	111.63	0.006411	2.31	292.17	234.29	0.66
Baganza	7300	TR200	835.00	108.77	111.55	111.18	111.86	0.006168	2.48	337.19	237.21	0.66
Baganza	7200	TR5	227.00	108.08	109.48	109.41	109.80	0.013021	2.48	91.47	112.53	0.88
Baganza	7200	TR10	306.00	108.08	109.68	109.59	110.04	0.013537	2.65	115.42	132.37	0.91
Baganza	7200	TR20	397.00	108.08	109.88	109.81	110.27	0.013402	2.76	143.86	154.12	0.91
Baganza	7200	TR50	542.00	108.08	110.23	110.06	110.59	0.010617	2.66	203.65	193.41	0.83
Baganza	7200	TR100	676.00	108.08	110.38	110.25	110.80	0.010959	2.88	234.85	203.07	0.85
Baganza	7200	TR200	835.00	108.08	110.54	110.43	111.04	0.011518	3.11	268.25	214.08	0.89

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	7100	TR5	227.00	107.04	108.64	108.44	108.83	0.007404	1.94	116.91	135.70	0.67
Baganza	7100	TR10	306.00	107.04	108.82	108.58	109.06	0.007471	2.17	141.19	139.85	0.69
Baganza	7100	TR20	397.00	107.04	109.00	108.74	109.29	0.007483	2.38	166.93	143.96	0.70
Baganza	7100	TR50	542.00	107.04	109.34	108.97	109.64	0.008512	2.42	223.82	207.14	0.74
Baganza	7100	TR100	676.00	107.04	109.55	109.22	109.87	0.008108	2.51	268.90	226.86	0.74
Baganza	7100	TR200	835.00	107.04	109.72	109.47	110.09	0.007846	2.70	309.19	228.53	0.74
Baganza	7000	TR5	227.00	106.42	107.62	107.55	107.86	0.013481	2.18	104.11	159.38	0.86
Baganza	7000	TR10	306.00	106.42	107.73	107.69	108.05	0.014326	2.50	122.57	160.27	0.91
Baganza	7000	TR20	397.00	106.42	107.85	107.83	108.25	0.015297	2.82	140.81	161.14	0.96
Baganza	7000	TR50	542.00	106.42	108.04	108.02	108.55	0.014572	3.13	172.89	162.67	0.97
Baganza	7000	TR100	676.00	106.42	108.20	108.20	108.79	0.014943	3.42	197.71	166.37	1.00
Baganza	7000	TR200	835.00	106.42	108.47	108.47	109.04	0.015066	3.32	251.20	222.01	1.00
Baganza	6900	TR5	227.00	105.25	106.71	106.54	106.86	0.007706	1.69	134.23	197.74	0.66
Baganza	6900	TR10	306.00	105.25	106.86	106.66	107.04	0.007523	1.87	163.94	204.54	0.67
Baganza	6900	TR20	397.00	105.25	107.02	106.78	107.23	0.007303	2.01	197.83	216.56	0.67
Baganza	6900	TR50	542.00	105.25	107.27	106.96	107.49	0.007952	2.09	259.22	284.57	0.70
Baganza	6900	TR100	676.00	105.25	107.44	107.14	107.69	0.007135	2.19	309.00	292.18	0.68
Baganza	6900	TR200	835.00	105.25	107.66	107.32	107.91	0.006373	2.23	374.12	315.45	0.65
Baganza	6800	TR5	227.00	104.12	105.66	105.59	105.88	0.012890	2.10	108.32	169.94	0.84
Baganza	6800	TR10	306.00	104.12	105.78	105.71	106.06	0.013211	2.38	128.81	170.50	0.87
Baganza	6800	TR20	397.00	104.12	105.90	105.85	106.26	0.013494	2.65	149.87	171.08	0.90
Baganza	6800	TR50	542.00	104.12	106.15	106.04	106.55	0.011408	2.81	192.60	176.96	0.86
Baganza	6800	TR100	676.00	104.12	106.32	106.20	106.78	0.011874	3.03	223.37	189.68	0.89
Baganza	6800	TR200	835.00	104.12	106.46	106.41	107.02	0.013243	3.31	252.61	203.99	0.95
Baganza	6700	TR5	227.00	103.20	104.77	104.58	104.92	0.007400	1.75	129.63	175.81	0.65
Baganza	6700	TR10	306.00	103.20	104.92	104.70	105.12	0.007144	1.95	157.16	177.04	0.66
Baganza	6700	TR20	397.00	103.20	105.08	104.83	105.32	0.006944	2.14	185.75	178.03	0.67
Baganza	6700	TR50	542.00	103.20	105.39	105.02	105.64	0.007446	2.18	248.10	242.59	0.69
Baganza	6700	TR100	676.00	103.20	105.57	105.20	105.84	0.007691	2.30	294.11	273.02	0.71
Baganza	6700	TR200	835.00	103.20	105.76	105.46	106.05	0.007410	2.40	348.20	294.87	0.70
Baganza	6600	TR5	227.00	102.27	103.91	103.68	104.11	0.009024	1.98	114.74	150.29	0.72
Baganza	6600	TR10	306.00	102.27	104.07	103.89	104.31	0.009105	2.18	140.55	160.55	0.74
Baganza	6600	TR20	397.00	102.27	104.24	104.05	104.52	0.009193	2.35	169.08	173.68	0.76
Baganza	6600	TR50	542.00	102.27	104.53	104.27	104.82	0.008897	2.40	225.50	218.29	0.75
Baganza	6600	TR100	676.00	102.27	104.74	104.49	105.05	0.008042	2.48	273.09	234.44	0.73
Baganza	6600	TR200	835.00	102.27	104.88	104.66	105.26	0.008449	2.72	307.08	237.55	0.76
Baganza	6500	TR5	227.00	101.34	102.96	102.82	103.17	0.009700	2.04	111.12	146.28	0.75
Baganza	6500	TR10	306.00	101.34	103.11	102.96	103.38	0.009586	2.29	133.74	147.19	0.77
Baganza	6500	TR20	397.00	101.34	103.28	103.11	103.60	0.009266	2.51	158.40	148.17	0.77
Baganza	6500	TR50	542.00	101.34	103.56	103.32	103.93	0.009073	2.69	201.60	167.05	0.78
Baganza	6500	TR100	676.00	101.34	103.85	103.53	104.20	0.008965	2.62	257.90	220.13	0.77
Baganza	6500	TR200	835.00	101.34	104.11	103.78	104.46	0.007592	2.63	317.39	237.83	0.73
Baganza	6400	TR5	227.00	100.72	102.19	101.97	102.36	0.006895	1.84	123.61	147.79	0.64
Baganza	6400	TR10	306.00	100.72	102.36	102.11	102.58	0.006866	2.06	148.55	148.99	0.66
Baganza	6400	TR20	397.00	100.72	102.51	102.26	102.79	0.007226	2.31	171.54	150.08	0.69
Baganza	6400	TR50	542.00	100.72	102.72	102.47	103.08	0.007835	2.68	202.43	151.15	0.74
Baganza	6400	TR100	676.00	100.72	102.87	102.65	103.33	0.008583	3.00	225.36	151.88	0.79
Baganza	6400	TR200	835.00	100.72	102.99	102.84	103.59	0.010104	3.42	244.01	152.48	0.86
Baganza	6300	TR5	227.00	99.89	101.25	101.14	101.49	0.011327	2.17	104.62	141.20	0.80
Baganza	6300	TR10	306.00	99.89	101.43	101.31	101.70	0.011422	2.31	132.23	163.09	0.82
Baganza	6300	TR20	397.00	99.89	101.60	101.47	101.91	0.010827	2.45	161.85	175.69	0.82
Baganza	6300	TR50	542.00	99.89	101.85	101.68	102.20	0.010043	2.64	205.63	189.38	0.81
Baganza	6300	TR100	676.00	99.89	102.03	101.85	102.43	0.009359	2.81	240.53	190.79	0.80
Baganza	6300	TR200	835.00	99.89	102.45	102.02	102.78	0.006666	2.55	327.76	233.67	0.69
Baganza	6200	TR5	227.00	99.19	100.67	100.32	100.79	0.004760	1.56	145.08	167.04	0.54
Baganza	6200	TR10	306.00	99.19	100.85	100.46	101.00	0.004754	1.74	175.83	172.33	0.55
Baganza	6200	TR20	397.00	99.19	101.03	100.62	101.21	0.004868	1.92	207.28	179.03	0.57
Baganza	6200	TR50	542.00	99.19	101.29	100.83	101.52	0.004904	2.12	255.82	190.90	0.58
Baganza	6200	TR100	676.00	99.19	101.51	101.00	101.77	0.004918	2.27	298.33	201.67	0.59
Baganza	6200	TR200	835.00	99.19	101.18	101.18	101.82	0.014718	3.56	234.76	183.65	1.00
Baganza	6100	TR5	227.00	98.29	99.88	99.73	100.11	0.010563	2.13	106.80	141.19	0.78
Baganza	6100	TR10	306.00	98.29	100.06	99.91	100.33	0.010300	2.30	133.26	153.93	0.79
Baganza	6100	TR20	397.00	98.29	100.22	100.07	100.54	0.009950	2.51	158.36	156.19	0.79
Baganza	6100	TR50	542.00	98.29	100.43	100.28	100.84	0.010104	2.83	191.46	159.14	0.82
Baganza	6100	TR100	676.00	98.29	100.68	100.45	101.10	0.009512	2.89	233.61	179.59	0.81
Baganza	6100	TR200	835.00	98.29	100.85	100.68	100.95	0.002329	1.44	599.73	481.05	0.40
Baganza	6000	TR5	227.00	97.52	98.97	98.77	99.18	0.008260	2.04	111.46	130.75	0.70
Baganza	6000	TR10	306.00	97.52	99.15	98.94	99.41	0.008222	2.25	136.28	137.63	0.72
Baganza	6000	TR20	397.00	97.52	99.35	99.11	99.65	0.008048	2.41	164.52	146.74	0.73
Baganza	6000	TR50	542.00	97.52	99.65	99.35	99.99	0.007265	2.59	209.15	155.24	0.71
Baganza	6000	TR100	676.00	97.52	99.94	99.54	100.29	0.007015	2.62	258.21	183.90	0.71

HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (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
Baganza	6000	TR200	835.00	97.52	100.23	99.73	100.59	0.006213	2.66	313.50	198.57	0.68
Baganza	5900	TR5	227.00	96.59	98.11	97.93	98.35	0.008425	2.14	106.23	117.31	0.72
Baganza	5900	TR10	306.00	96.59	98.31	98.09	98.59	0.008090	2.37	129.04	118.13	0.72
Baganza	5900	TR20	397.00	96.59	98.52	98.26	98.85	0.007822	2.58	153.79	120.84	0.73
Baganza	5900	TR50	542.00	96.59	98.74	98.51	99.20	0.008670	2.99	181.54	123.87	0.79
Baganza	5900	TR100	676.00	96.59	98.90	98.73	99.48	0.009640	3.35	201.62	125.12	0.84
Baganza	5900	TR200	835.00	96.59	99.08	98.95	99.79	0.010700	3.74	223.39	127.35	0.90
Baganza	5800	TR5	227.00	95.85	97.16	97.00	97.38	0.011154	2.09	108.81	154.09	0.79
Baganza	5800	TR10	306.00	95.85	97.27	97.20	97.57	0.013435	2.42	126.29	164.21	0.88
Baganza	5800	TR20	397.00	95.85	97.35	97.35	97.76	0.016349	2.83	140.46	167.92	0.99
Baganza	5800	TR50	542.00	95.85	97.54	97.54	98.05	0.015911	3.16	171.48	169.72	1.00
Baganza	5800	TR100	676.00	95.85	97.70	97.70	98.29	0.015005	3.39	199.50	170.11	1.00
Baganza	5800	TR200	835.00	95.85	97.89	97.89	98.55	0.014520	3.59	232.78	177.71	1.00
Baganza	5700	TR5	227.00	94.98	96.16	96.03	96.34	0.009800	1.86	121.81	186.06	0.74
Baganza	5700	TR10	306.00	94.98	96.33	96.16	96.53	0.008210	1.99	154.07	187.22	0.70
Baganza	5700	TR20	397.00	94.98	96.53	96.28	96.75	0.006895	2.09	190.15	188.02	0.66
Baganza	5700	TR50	542.00	94.98	96.82	96.46	97.07	0.005555	2.21	245.26	189.22	0.62
Baganza	5700	TR100	676.00	94.98	97.08	96.61	97.34	0.004767	2.30	294.15	190.72	0.59
Baganza	5700	TR200	835.00	94.98	97.40	96.78	97.68	0.003908	2.34	356.49	193.44	0.55
Baganza	5600	TR5	227.00	93.67	95.55	95.16	95.70	0.004540	1.71	132.85	129.16	0.54
Baganza	5600	TR10	306.00	93.67	95.76	95.34	95.95	0.004398	1.90	161.07	130.35	0.55
Baganza	5600	TR20	397.00	93.67	95.99	95.50	96.21	0.004303	2.08	190.63	132.16	0.55
Baganza	5600	TR50	542.00	93.67	96.32	95.74	96.59	0.004159	2.31	234.26	135.17	0.56
Baganza	5600	TR100	676.00	93.67	96.59	95.93	96.91	0.004020	2.49	272.00	137.33	0.56
Baganza	5600	TR200	835.00	93.67	96.93	96.15	97.28	0.004151	2.61	319.42	153.14	0.58
Baganza	5500	TR5	227.00	93.36	94.51	94.50	94.92	0.016198	2.84	79.87	94.27	0.99
Baganza	5500	TR10	306.00	93.36	94.69	94.69	95.20	0.015667	3.16	96.91	95.20	1.00
Baganza	5500	TR20	397.00	93.36	94.89	94.89	95.48	0.014884	3.42	116.16	97.46	1.00
Baganza	5500	TR50	542.00	93.36	95.17	95.17	95.89	0.013917	3.77	143.89	99.10	1.00
Baganza	5500	TR100	676.00	93.36	95.41	95.41	96.24	0.013414	4.02	168.07	101.98	1.00
Baganza	5500	TR200	835.00	93.36	95.71	95.71	96.60	0.013031	4.19	199.41	111.40	1.00
Baganza	5400	TR5	227.00	92.16	93.65	93.45	93.85	0.007605	1.96	115.86	135.04	0.68
Baganza	5400	TR10	306.00	92.16	93.83	93.60	94.07	0.007489	2.19	139.55	135.71	0.69
Baganza	5400	TR20	397.00	92.16	94.01	93.75	94.31	0.007311	2.41	164.71	136.41	0.70
Baganza	5400	TR50	542.00	92.16	94.27	93.97	94.64	0.007273	2.72	199.50	137.37	0.72
Baganza	5400	TR100	676.00	92.16	94.51	94.16	94.94	0.006765	2.90	233.51	138.30	0.71
Baganza	5400	TR200	835.00	92.16	94.74	94.37	95.25	0.006851	3.15	264.77	139.10	0.73
Baganza	5300	TR5	227.00	91.31	92.78	92.64	93.00	0.009563	2.09	108.84	137.57	0.75
Baganza	5300	TR10	306.00	91.31	92.92	92.78	93.21	0.010180	2.39	128.10	138.40	0.79
Baganza	5300	TR20	397.00	91.31	93.05	92.93	93.42	0.010933	2.70	146.94	139.21	0.84
Baganza	5300	TR50	542.00	91.31	93.26	93.16	93.74	0.011445	3.09	175.28	140.27	0.88
Baganza	5300	TR100	676.00	91.31	93.36	93.34	94.01	0.013796	3.57	189.50	140.77	0.98
Baganza	5300	TR200	835.00	91.31	93.55	93.55	94.31	0.013712	3.86	216.11	141.69	1.00
Baganza	5200	TR5	227.00	90.20	91.83	91.71	92.02	0.010138	1.93	117.87	175.49	0.75
Baganza	5200	TR10	306.00	90.20	91.97	91.83	92.20	0.009966	2.15	142.22	176.99	0.77
Baganza	5200	TR20	397.00	90.20	92.11	91.96	92.39	0.009759	2.36	168.14	179.10	0.78
Baganza	5200	TR50	542.00	90.20	92.37	92.15	92.69	0.009793	2.49	217.49	214.26	0.79
Baganza	5200	TR100	676.00	90.20	92.56	92.36	92.90	0.008991	2.62	258.08	221.28	0.77
Baganza	5200	TR200	835.00	90.20	92.76	92.52	93.15	0.008065	2.75	304.15	223.93	0.75
Baganza	5100	TR5	227.00	89.54	91.04	90.80	91.20	0.006798	1.75	129.78	165.36	0.63
Baganza	5100	TR10	306.00	89.54	91.21	90.95	91.40	0.006602	1.94	157.65	168.10	0.64
Baganza	5100	TR20	397.00	89.54	91.38	91.09	91.61	0.006495	2.13	186.13	170.16	0.65
Baganza	5100	TR50	542.00	89.54	91.61	91.29	91.90	0.006444	2.40	225.63	171.50	0.67
Baganza	5100	TR100	676.00	89.54	91.79	91.46	92.14	0.006591	2.63	256.61	172.67	0.69
Baganza	5100	TR200	835.00	89.54	91.95	91.63	92.39	0.007125	2.93	285.31	173.77	0.73
Baganza	5000	TR5	227.00	88.57	90.12	90.01	90.35	0.010762	2.11	107.33	145.22	0.79
Baganza	5000	TR10	306.00	88.57	90.27	90.15	90.56	0.011116	2.38	128.68	149.60	0.82
Baganza	5000	TR20	397.00	88.57	90.43	90.31	90.77	0.011162	2.60	152.76	155.88	0.84
Baganza	5000	TR50	542.00	88.57	90.67	90.52	91.08	0.010847	2.84	191.10	167.40	0.85
Baganza	5000	TR100	676.00	88.57	90.90	90.72	91.33	0.010107	2.93	231.10	183.30	0.83
Baganza	5000	TR200	835.00	88.57	91.21	90.92	91.63	0.008122	2.87	290.46	200.60	0.76
Baganza	4900	TR5	227.00	87.44	89.25	89.04	89.44	0.007718	1.95	116.34	138.32	0.68
Baganza	4900	TR10	306.00	87.44	89.44	89.20	89.67	0.007174	2.14	142.74	139.43	0.68
Baganza	4900	TR20	397.00	87.44	89.64	89.36	89.91	0.006784	2.33	170.24	140.50	0.68
Baganza	4900	TR50	542.00	87.44	89.91	89.57	90.25	0.006471	2.59	209.07	141.97	0.68
Baganza	4900	TR100	676.00	87.44	90.12	89.76	90.53	0.006583	2.84	238.26	143.07	0.70
Baganza	4900	TR200	835.00	87.44	90.43	89.96	90.86	0.007295	2.92	286.31	178.28	0.73
Baganza	4800	TR5	227.00	86.83	88.61	88.31	88.78	0.005759	1.85	122.56	126.58	0.60
Baganza	4800	TR10	306.00	86.83	88.79	88.47	89.01	0.006073	2.09	146.54	131.53	0.63
Baganza	4800	TR20	397.00	86.83	88.98	88.64	89.25	0.006455	2.31	171.70	138.43	0.66
Baganza	4800	TR50	542.00	86.83	89.26	88.89	89.59	0.006858	2.54	213.42	156.43	0.69

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: BAganza (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
Baganza	4800	TR100	676.00	86.83	89.46	89.11	89.85	0.007000	2.75	245.88	162.46	0.71
Baganza	4800	TR200	835.00	86.83	89.71	89.33	90.14	0.007136	2.90	287.80	178.01	0.73
Baganza	4700	TR5	227.00	86.29	87.50	87.50	87.84	0.018005	2.58	87.98	130.08	1.00
Baganza	4700	TR10	306.00	86.29	87.67	87.67	88.06	0.016929	2.79	109.79	138.02	1.00
Baganza	4700	TR20	397.00	86.29	87.82	87.82	88.29	0.015987	3.02	131.43	140.27	1.00
Baganza	4700	TR50	542.00	86.29	88.04	88.04	88.61	0.015169	3.34	162.05	142.66	1.00
Baganza	4700	TR100	676.00	86.29	88.23	88.23	88.88	0.014401	3.58	188.91	144.50	1.00
Baganza	4700	TR200	835.00	86.29	88.43	88.43	89.17	0.013805	3.83	218.24	146.23	1.00
Baganza	4600	TR5	227.00	84.86	86.77	86.43	86.90	0.004935	1.62	140.13	156.98	0.55
Baganza	4600	TR10	306.00	84.86	86.95	86.59	87.11	0.004958	1.82	168.47	159.43	0.56
Baganza	4600	TR20	397.00	84.86	87.13	86.74	87.33	0.004967	2.00	198.20	162.08	0.58
Baganza	4600	TR50	542.00	84.86	87.40	86.95	87.66	0.004863	2.23	242.83	166.00	0.59
Baganza	4600	TR100	676.00	84.86	87.65	87.12	87.94	0.004760	2.38	284.54	174.23	0.59
Baganza	4600	TR200	835.00	84.86	87.93	87.31	88.25	0.004534	2.49	335.12	184.10	0.59
Baganza	4500	TR5	227.00	84.09	85.93	85.80	86.19	0.010956	2.29	99.23	120.32	0.80
Baganza	4500	TR10	306.00	84.09	86.15	85.99	86.44	0.009628	2.41	126.93	129.04	0.78
Baganza	4500	TR20	397.00	84.09	86.36	86.15	86.70	0.008526	2.56	155.30	131.86	0.75
Baganza	4500	TR50	542.00	84.09	86.68	86.38	87.06	0.007375	2.74	198.08	136.07	0.72
Baganza	4500	TR100	676.00	84.09	86.98	86.58	87.38	0.006446	2.83	238.87	140.90	0.69
Baganza	4500	TR200	835.00	84.09	87.29	86.80	87.73	0.005936	2.94	283.75	148.34	0.68
Baganza	4400	TR5	227.00	83.34	85.10	84.84	85.34	0.006820	2.16	105.33	98.13	0.66
Baganza	4400	TR10	306.00	83.34	85.29	85.03	85.60	0.007401	2.48	123.48	99.14	0.71
Baganza	4400	TR20	397.00	83.34	85.47	85.22	85.87	0.007982	2.80	141.72	100.15	0.75
Baganza	4400	TR50	542.00	83.34	85.72	85.50	86.26	0.008865	3.26	166.48	101.51	0.81
Baganza	4400	TR100	676.00	83.34	85.96	85.73	86.59	0.010037	3.52	192.06	114.39	0.87
Baganza	4400	TR200	835.00	83.34	86.35	86.10	86.94	0.010937	3.40	245.90	165.03	0.89
Baganza	4300	TR5	227.00	82.70	84.55	84.25	84.72	0.005588	1.83	123.99	127.29	0.59
Baganza	4300	TR10	306.00	82.70	84.76	84.41	84.97	0.005471	2.04	149.77	128.28	0.60
Baganza	4300	TR20	397.00	82.70	84.96	84.58	85.22	0.005419	2.25	176.19	129.30	0.62
Baganza	4300	TR50	542.00	82.70	85.26	84.81	85.58	0.005287	2.52	215.17	131.04	0.63
Baganza	4300	TR100	676.00	82.70	85.52	85.01	85.89	0.005124	2.71	249.11	132.43	0.63
Baganza	4300	TR200	835.00	82.70	85.81	85.22	86.24	0.004927	2.90	287.55	134.00	0.63
Baganza	4200	TR5	227.00	81.99	84.01	83.68	84.18	0.005285	1.82	124.48	123.34	0.58
Baganza	4200	TR10	306.00	81.99	84.24	83.85	84.44	0.005071	2.00	152.80	127.41	0.58
Baganza	4200	TR20	397.00	81.99	84.47	84.02	84.71	0.004796	2.18	182.49	128.79	0.58
Baganza	4200	TR50	542.00	81.99	84.81	84.27	85.10	0.004441	2.39	226.49	130.68	0.58
Baganza	4200	TR100	676.00	81.99	85.10	84.46	85.43	0.004172	2.55	264.85	132.30	0.58
Baganza	4200	TR200	835.00	81.99	85.42	84.68	85.80	0.003917	2.71	307.91	133.82	0.57
Baganza	4100	TR5	227.00	81.33	83.23	83.04	83.52	0.008690	2.36	96.09	93.52	0.74
Baganza	4100	TR10	306.00	81.33	83.46	83.24	83.80	0.008263	2.61	117.40	94.86	0.75
Baganza	4100	TR20	397.00	81.33	83.70	83.43	84.10	0.007910	2.83	140.12	96.64	0.75
Baganza	4100	TR50	542.00	81.33	84.04	83.72	84.54	0.007370	3.11	174.19	98.90	0.75
Baganza	4100	TR100	676.00	81.33	84.35	83.96	84.90	0.006903	3.31	204.42	100.77	0.74
Baganza	4100	TR200	835.00	81.33	84.66	84.22	85.30	0.006671	3.53	236.30	102.70	0.74
Baganza	4000	TR5	227.00	80.46	82.36	82.16	82.65	0.008613	2.41	94.24	88.33	0.74
Baganza	4000	TR10	306.00	80.46	82.55	82.36	82.93	0.009183	2.76	110.98	89.03	0.79
Baganza	4000	TR20	397.00	80.46	82.73	82.56	83.22	0.009863	3.12	127.44	89.71	0.83
Baganza	4000	TR50	542.00	80.46	82.97	82.86	83.64	0.011038	3.63	149.19	90.60	0.90
Baganza	4000	TR100	676.00	80.46	83.15	83.11	84.00	0.012309	4.09	165.43	91.32	0.97
Baganza	4000	TR200	835.00	80.46	83.39	83.39	84.40	0.012633	4.46	187.20	92.30	1.00
Baganza	3900	TR5	227.00	79.74	81.87	81.43	82.03	0.004679	1.80	126.14	115.64	0.55
Baganza	3900	TR10	306.00	79.74	82.07	81.67	82.29	0.004820	2.04	149.89	116.17	0.57
Baganza	3900	TR20	397.00	79.74	82.28	81.84	82.55	0.004945	2.28	174.29	116.70	0.59
Baganza	3900	TR50	542.00	79.74	82.58	82.09	82.92	0.005107	2.60	208.74	117.42	0.62
Baganza	3900	TR100	676.00	79.74	82.82	82.30	83.24	0.005209	2.84	238.04	118.69	0.64
Baganza	3900	TR200	835.00	79.74	83.10	82.53	83.58	0.005278	3.08	270.79	120.41	0.66
Baganza	3800	TR5	227.00	79.08	80.85	80.85	81.23	0.017149	2.73	83.17	108.55	1.00
Baganza	3800	TR10	306.00	79.08	81.01	81.01	81.48	0.016234	3.02	101.44	109.29	1.00
Baganza	3800	TR20	397.00	79.08	81.19	81.19	81.74	0.015418	3.29	120.81	110.05	1.00
Baganza	3800	TR50	542.00	79.08	81.45	81.45	82.12	0.014326	3.62	149.52	111.13	1.00
Baganza	3800	TR100	676.00	79.08	81.66	81.66	82.44	0.013726	3.90	173.53	112.03	1.00
Baganza	3800	TR200	835.00	79.08	81.90	81.90	82.79	0.013311	4.18	199.56	112.99	1.01
Baganza	3700	TR5	227.00	78.34	79.96	79.70	80.17	0.006715	2.03	111.77	112.72	0.65
Baganza	3700	TR10	306.00	78.34	80.18	79.87	80.44	0.006305	2.23	137.31	114.88	0.65
Baganza	3700	TR20	397.00	78.34	80.42	80.05	80.71	0.005976	2.42	164.08	116.49	0.65
Baganza	3700	TR50	542.00	78.34	80.75	80.31	81.11	0.005555	2.67	203.24	117.89	0.65
Baganza	3700	TR100	676.00	78.34	81.04	80.51	81.45	0.005246	2.85	237.10	119.02	0.64
Baganza	3700	TR200	835.00	78.34	81.36	80.75	81.82	0.004955	3.03	275.71	120.98	0.64
Baganza	3600	TR5	227.00	77.35	79.47	79.05	79.64	0.004276	1.81	125.07	106.00	0.53
Baganza	3600	TR10	306.00	77.35	79.71	79.23	79.92	0.004309	2.04	150.29	107.77	0.55
Baganza	3600	TR20	397.00	77.35	79.96	79.42	80.21	0.004268	2.24	177.12	109.09	0.56

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	3600	TR50	542.00	77.35	80.31	79.69	80.63	0.004147	2.50	216.48	110.34	0.57
Baganza	3600	TR100	676.00	77.35	80.62	79.91	80.99	0.004041	2.70	250.19	111.40	0.58
Baganza	3600	TR200	835.00	77.35	80.96	80.15	81.39	0.003919	2.90	288.12	112.71	0.58
Baganza	3500	TR5	227.00	76.74	78.75	78.57	79.04	0.008947	2.41	94.16	90.68	0.76
Baganza	3500	TR10	306.00	76.74	78.99	78.76	79.34	0.008159	2.63	116.29	91.52	0.75
Baganza	3500	TR20	397.00	76.74	79.26	78.96	79.66	0.007345	2.82	140.96	92.45	0.73
Baganza	3500	TR50	542.00	76.74	79.60	79.25	80.10	0.007046	3.13	173.12	93.76	0.74
Baganza	3500	TR100	676.00	76.74	79.90	79.50	80.48	0.006737	3.36	201.43	94.90	0.74
Baganza	3500	TR200	835.00	76.74	80.24	79.77	80.89	0.006363	3.57	234.01	96.20	0.73
Baganza	3400	TR5	227.00	75.96	78.06	77.68	78.32	0.005977	2.28	99.64	77.61	0.64
Baganza	3400	TR10	306.00	75.96	78.34	77.92	78.66	0.005762	2.50	122.62	81.01	0.65
Baganza	3400	TR20	397.00	75.96	78.64	78.17	79.01	0.005825	2.68	147.87	88.21	0.66
Baganza	3400	TR50	542.00	75.96	79.04	78.52	79.49	0.005413	2.96	183.38	89.40	0.66
Baganza	3400	TR100	676.00	75.96	79.39	78.79	79.89	0.005101	3.15	214.32	90.46	0.65
Baganza	3400	TR200	835.00	75.96	79.77	79.07	80.34	0.004817	3.35	249.26	91.90	0.65
Baganza	3300	TR5	227.00	75.21	77.32	76.99	77.66	0.007409	2.56	88.79	67.87	0.71
Baganza	3300	TR10	306.00	75.21	77.62	77.27	78.01	0.007376	2.79	109.66	73.18	0.73
Baganza	3300	TR20	397.00	75.21	77.91	77.56	78.37	0.006985	3.03	131.08	74.09	0.73
Baganza	3300	TR50	542.00	75.21	78.33	77.90	78.90	0.006489	3.33	162.93	75.49	0.72
Baganza	3300	TR100	676.00	75.21	78.69	78.18	79.33	0.006216	3.56	189.77	76.66	0.72
Baganza	3300	TR200	835.00	75.21	79.06	78.50	79.80	0.006025	3.81	219.06	77.91	0.73
Baganza	3200	TR5	227.00	74.84	76.69	76.33	76.99	0.006032	2.43	93.51	66.36	0.65
Baganza	3200	TR10	306.00	74.84	77.00	76.57	77.37	0.005712	2.68	114.33	67.02	0.65
Baganza	3200	TR20	397.00	74.84	77.32	76.82	77.75	0.005554	2.93	135.56	67.73	0.66
Baganza	3200	TR50	542.00	74.84	77.74	77.18	78.29	0.005614	3.29	164.85	69.63	0.68
Baganza	3200	TR100	676.00	74.84	78.08	77.49	78.73	0.005779	3.59	188.30	71.12	0.70
Baganza	3200	TR200	835.00	74.84	78.41	77.83	79.20	0.006064	3.93	212.61	72.63	0.73
Baganza	3100	TR5	227.00	73.79	76.31	75.70	76.53	0.003632	2.06	110.17	67.96	0.52
Baganza	3100	TR10	306.00	73.79	76.64	75.94	76.91	0.003765	2.31	132.65	70.84	0.54
Baganza	3100	TR20	397.00	73.79	76.97	76.20	77.29	0.003864	2.54	156.59	73.92	0.56
Baganza	3100	TR50	542.00	73.79	77.40	76.57	77.82	0.004107	2.87	189.13	77.57	0.59
Baganza	3100	TR100	676.00	73.79	77.71	76.89	78.22	0.004589	3.15	214.35	82.71	0.63
Baganza	3100	TR200	835.00	73.79	78.04	77.22	78.64	0.005099	3.45	242.36	88.60	0.66
Baganza	3000	TR5	227.00	73.39	75.58	75.38	75.98	0.009190	2.82	80.63	62.65	0.79
Baganza	3000	TR10	306.00	73.39	75.84	75.64	76.34	0.009473	3.15	97.14	65.19	0.82
Baganza	3000	TR20	397.00	73.39	76.07	75.91	76.70	0.010181	3.52	112.73	67.50	0.87
Baganza	3000	TR50	542.00	73.39	76.61	76.40	77.22	0.009575	3.46	156.77	92.31	0.85
Baganza	3000	TR100	676.00	73.39	76.88	76.67	77.58	0.009508	3.71	182.45	96.28	0.86
Baganza	3000	TR200	835.00	73.39	77.21	77.00	77.97	0.009430	3.85	217.02	107.59	0.86
Baganza	2900	TR5	227.00	72.81	74.66	74.52	75.02	0.010155	2.63	86.18	79.85	0.81
Baganza	2900	TR10	306.00	72.81	74.84	74.73	75.31	0.011199	3.05	100.44	80.41	0.87
Baganza	2900	TR20	397.00	72.81	75.05	74.94	75.63	0.011244	3.37	117.74	81.09	0.89
Baganza	2900	TR50	542.00	72.81	75.26	75.26	76.09	0.013523	4.02	134.78	81.74	1.00
Baganza	2900	TR100	676.00	72.81	75.55	75.55	76.48	0.012982	4.27	158.38	85.13	1.00
Baganza	2900	TR200	835.00	72.81	75.87	75.87	76.88	0.012649	4.45	187.59	92.85	1.00
Baganza	2800	TR5	227.00	72.41	74.00	73.70	74.23	0.006299	2.10	108.17	98.74	0.64
Baganza	2800	TR10	306.00	72.41	74.28	73.90	74.54	0.005677	2.25	136.06	103.46	0.63
Baganza	2800	TR20	397.00	72.41	74.54	74.09	74.84	0.005904	2.41	164.40	115.67	0.65
Baganza	2800	TR50	542.00	72.41	74.97	74.38	75.29	0.004786	2.52	214.69	120.67	0.60
Baganza	2800	TR100	676.00	72.41	75.42	74.64	75.73	0.003702	2.50	270.75	127.58	0.55
Baganza	2800	TR200	835.00	72.41	75.81	74.88	76.15	0.003497	2.59	322.14	137.50	0.54
Baganza	2700	TR5	227.00	71.19	73.07	72.92	73.44	0.010022	2.71	83.83	73.89	0.81
Baganza	2700	TR10	306.00	71.19	73.24	73.14	73.75	0.011598	3.17	96.53	74.91	0.89
Baganza	2700	TR20	397.00	71.19	73.61	73.38	74.13	0.008795	3.19	124.27	77.38	0.80
Baganza	2700	TR50	542.00	71.19	74.36	73.72	74.79	0.005190	2.92	185.74	89.04	0.64
Baganza	2700	TR100	676.00	71.19	74.90	74.00	75.30	0.005247	2.80	241.24	124.06	0.64
Baganza	2700	TR200	835.00	71.19	75.41	74.35	75.77	0.004157	2.68	312.08	144.55	0.58
Baganza	2597.84	TR5	227.00	70.83	72.52	72.13	72.73	0.005133	2.02	112.21	92.81	0.59
Baganza	2597.84	TR10	306.00	70.83	73.02	72.34	73.21	0.003074	1.93	158.73	95.95	0.48
Baganza	2597.84	TR20	397.00	70.83	73.56	72.55	73.74	0.002068	1.87	212.22	99.51	0.41
Baganza	2597.84	TR50	542.00	70.83	74.38	72.84	74.55	0.001381	1.84	295.35	105.14	0.35
Baganza	2597.84	TR100	676.00	70.83	74.87	73.08	75.06	0.001306	1.94	347.60	108.69	0.35
Baganza	2597.84	TR200	835.00	70.83	75.33	73.35	75.55	0.001335	2.10	398.46	113.18	0.36
Baganza	2569.29	TR5	227.00	70.37	72.46	71.82	72.62	0.003125	1.77	128.11	89.19	0.47
Baganza	2569.29	TR10	306.00	70.37	72.98	72.06	73.13	0.002093	1.75	175.15	92.03	0.40
Baganza	2569.29	TR20	397.00	70.37	73.54	72.28	73.69	0.001549	1.75	227.30	95.18	0.36
Baganza	2569.29	TR50	542.00	70.37	74.35	72.58	74.51	0.001183	1.76	308.44	104.45	0.33
Baganza	2569.29	TR100	676.00	70.37	74.84	72.84	75.02	0.001159	1.87	360.83	109.24	0.33
Baganza	2569.29	TR200	835.00	70.37	75.30	73.11	75.51	0.001189	2.03	411.95	112.84	0.34
Baganza	2500	TR5	227.00	69.70	72.18	71.47	72.40	0.003209	2.08	109.01	59.44	0.49
Baganza	2500	TR10	306.00	69.70	72.74	71.72	72.98	0.002452	2.14	142.93	60.71	0.45

HEC-RAS Plan: SDEADY SDP River: BAganza Reach: Baganza (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
Baganza	2500	TR20	397.00	69.70	73.31	72.00	73.57	0.002064	2.23	177.96	62.10	0.42
Baganza	2500	TR50	542.00	69.70	74.15	72.39	74.40	0.002523	2.20	246.23	103.20	0.45
Baganza	2500	TR100	676.00	69.70	74.66	72.71	74.92	0.002169	2.25	300.91	109.19	0.43
Baganza	2500	TR200	835.00	69.70	75.12	73.08	75.40	0.002164	2.37	351.89	117.46	0.44
Baganza	2430.01	TR5	227.00	69.01	71.95	71.00	72.19	0.002702	2.19	103.84	45.85	0.46
Baganza	2430.01	TR10	306.00	69.01	72.52	71.31	72.79	0.002785	2.33	131.48	54.02	0.48
Baganza	2430.01	TR20	397.00	69.01	73.11	71.64	73.40	0.002806	2.40	165.64	65.59	0.48
Baganza	2430.01	TR50	542.00	69.01	73.94	72.12	74.21	0.002696	2.33	233.01	94.23	0.47
Baganza	2430.01	TR100	676.00	69.01	74.47	72.61	74.76	0.002258	2.38	283.99	96.91	0.44
Baganza	2430.01	TR200	835.00	69.01	74.92	73.13	75.25	0.002211	2.54	328.14	99.64	0.45
Baganza	2300	TR5	227.00	68.18	71.03	70.65	71.65	0.007504	3.46	65.53	30.92	0.76
Baganza	2300	TR10	306.00	68.18	71.48	71.07	72.23	0.007592	3.85	79.56	32.13	0.78
Baganza	2300	TR20	397.00	68.18	71.93	71.50	72.83	0.007838	4.20	94.55	34.15	0.81
Baganza	2300	TR50	542.00	68.18	72.52	72.13	73.64	0.008296	4.71	115.18	36.38	0.84
Baganza	2300	TR100	676.00	68.18	73.55	72.64	74.26	0.007911	3.73	181.30	80.53	0.79
Baganza	2300	TR200	835.00	68.18	74.13	73.52	74.81	0.005983	3.64	229.31	85.46	0.71
Baganza	2200	TR5	227.00	67.17	69.72	69.72	70.65	0.013755	4.27	53.18	28.70	1.00
Baganza	2200	TR10	306.00	67.17	70.17	70.17	71.25	0.013084	4.61	66.44	30.68	1.00
Baganza	2200	TR20	397.00	67.17	70.65	70.65	71.85	0.012672	4.85	81.85	34.14	1.00
Baganza	2200	TR50	542.00	67.17	71.25	71.25	72.65	0.012085	5.25	103.28	36.79	1.00
Baganza	2200	TR100	676.00	67.17	71.74	71.74	73.31	0.011713	5.55	121.86	38.94	1.00
Baganza	2200	TR200	835.00	67.17	72.27	72.27	74.00	0.011327	5.83	143.32	41.41	1.00
Baganza	2100	TR5	227.00	66.90	69.45	68.75	69.63	0.002889	1.89	120.18	70.56	0.46
Baganza	2100	TR10	306.00	66.90	69.90	68.98	70.10	0.002496	2.01	152.11	72.61	0.44
Baganza	2100	TR20	397.00	66.90	70.39	69.22	70.61	0.002371	2.09	189.74	82.25	0.44
Baganza	2100	TR50	542.00	66.90	71.09	69.57	71.32	0.001998	2.16	251.05	91.26	0.42
Baganza	2100	TR100	676.00	66.90	70.59	69.87	71.14	0.005514	3.27	206.77	86.40	0.67
Baganza	2100	TR200	835.00	66.90	70.79	70.23	71.50	0.006692	3.72	224.67	89.56	0.75
Baganza	2000	TR5	227.00	66.29	68.67	68.31	69.20	0.007309	3.22	70.44	37.11	0.75
Baganza	2000	TR10	306.00	66.29	69.00	68.67	69.69	0.008072	3.69	82.85	38.16	0.80
Baganza	2000	TR20	397.00	66.29	69.29	69.05	70.20	0.009151	4.21	94.32	39.10	0.86
Baganza	2000	TR50	542.00	66.29	69.59	69.59	70.92	0.011943	5.11	106.12	40.04	1.00
Baganza	2000	TR100	676.00	66.29	70.99	70.04	71.02	0.000506	0.65	865.30	533.40	0.19
Baganza	2000	TR200	835.00	66.29	71.37	70.98	71.40	0.000389	0.67	1067.87	536.96	0.17
Baganza	1900	TR5	227.00	65.61	68.24	67.72	68.59	0.005142	2.60	87.41	49.11	0.62
Baganza	1900	TR10	306.00	65.61	68.65	68.03	69.06	0.005056	2.82	108.37	52.98	0.63
Baganza	1900	TR20	397.00	65.61	69.08	68.36	69.55	0.004850	3.02	131.65	56.47	0.63
Baganza	1900	TR50	542.00	65.61	69.71	68.82	70.24	0.004365	3.21	168.69	60.63	0.61
Baganza	1900	TR100	676.00	65.61	70.40	69.21	70.92	0.003424	3.20	211.36	63.50	0.56
Baganza	1900	TR200	835.00	65.61	70.61	69.61	71.31	0.004466	3.71	224.96	66.01	0.64
Baganza	1800	TR5	227.00	65.32	67.69	67.18	68.07	0.005302	2.70	84.12	45.59	0.63
Baganza	1800	TR10	306.00	65.32	68.10	67.50	68.55	0.005168	2.98	102.82	47.03	0.64
Baganza	1800	TR20	397.00	65.32	68.52	67.83	69.05	0.005073	3.23	122.92	48.92	0.65
Baganza	1800	TR50	542.00	65.32	69.16	68.31	69.78	0.004677	3.49	155.44	51.67	0.64
Baganza	1800	TR100	676.00	65.32	69.98	68.71	70.51	0.005036	3.22	209.67	83.56	0.65
Baganza	1800	TR200	835.00	65.32	69.14	69.14	70.63	0.011392	5.42	154.09	51.56	1.00
Baganza	1700	TR5	227.00	64.30	67.09	66.58	67.51	0.005920	2.84	79.89	43.01	0.67
Baganza	1700	TR10	306.00	64.30	67.50	66.96	68.00	0.005895	3.13	97.70	45.21	0.68
Baganza	1700	TR20	397.00	64.30	67.92	67.31	68.50	0.005874	3.38	117.50	48.31	0.69
Baganza	1700	TR50	542.00	64.30	68.71	67.82	69.31	0.004709	3.45	157.11	52.91	0.64
Baganza	1700	TR100	676.00	64.30	69.28	68.23	69.89	0.007679	3.48	194.38	94.89	0.78
Baganza	1700	TR200	835.00	64.30	69.57	68.67	69.62	0.000750	0.83	868.63	524.29	0.23
Baganza	1600	TR5	227.00	63.93	66.45	66.02	66.89	0.006349	2.96	76.80	41.36	0.69
Baganza	1600	TR10	306.00	63.93	66.83	66.36	67.39	0.006378	3.29	93.03	42.63	0.71
Baganza	1600	TR20	397.00	63.93	67.23	66.71	67.89	0.006424	3.61	110.03	43.94	0.73
Baganza	1600	TR50	542.00	63.93	68.19	67.22	68.74	0.007298	3.27	165.95	85.70	0.75
Baganza	1600	TR100	676.00	63.93	68.06	68.06	69.03	0.012952	4.36	155.02	79.69	1.00
Baganza	1600	TR200	835.00	63.93	68.51	68.51	69.42	0.013191	4.24	196.88	107.54	1.00
Baganza	1500	TR5	227.00	63.60	65.91	65.41	66.30	0.005545	2.77	82.00	44.27	0.65
Baganza	1500	TR10	306.00	63.60	66.34	65.74	66.80	0.005329	3.01	101.73	46.88	0.65
Baganza	1500	TR20	397.00	63.60	66.79	66.09	67.32	0.005091	3.22	123.41	49.52	0.65
Baganza	1500	TR50	542.00	63.60	67.73	66.58	68.11	0.005490	2.73	198.74	109.33	0.65
Baganza	1500	TR100	676.00	63.60	68.20	67.34	68.25	0.000938	1.11	664.85	430.01	0.27
Baganza	1500	TR200	835.00	63.60	68.79	67.68	68.81	0.000254	0.70	1410.68	800.00	0.14
Baganza	1400	TR5	227.00	62.85	65.21	64.79	65.70	0.006602	3.08	73.80	37.97	0.70
Baganza	1400	TR10	306.00	62.85	65.57	65.15	66.19	0.007086	3.51	87.23	38.57	0.74
Baganza	1400	TR20	397.00	62.85	65.90	65.51	66.70	0.007733	3.96	100.23	39.19	0.79
Baganza	1400	TR50	542.00	62.85	66.35	66.04	67.42	0.008704	4.58	118.26	40.35	0.85
Baganza	1400	TR100	676.00	62.85	66.71	66.49	68.03	0.009503	5.08	132.96	41.28	0.90
Baganza	1400	TR200	835.00	62.85	67.09	66.97	68.70	0.010393	5.62	148.56	42.24	0.96
Baganza	1300	TR5	227.00	62.52	64.77	64.22	65.13	0.004909	2.64	85.94	44.96	0.61

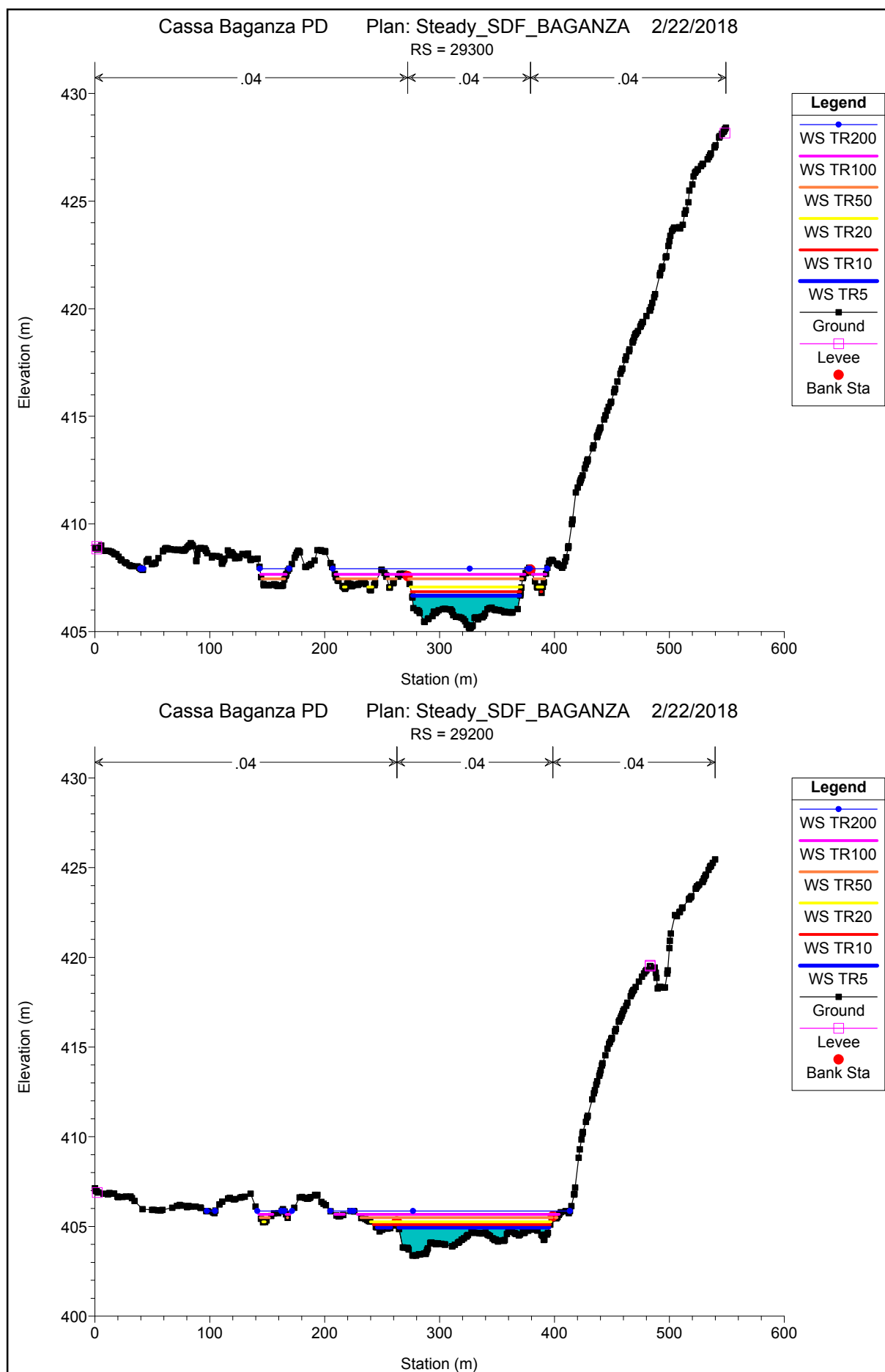
HEC-RAS Plan: SDEADY SDP River: Baganza Reach: Baganza (Continued)

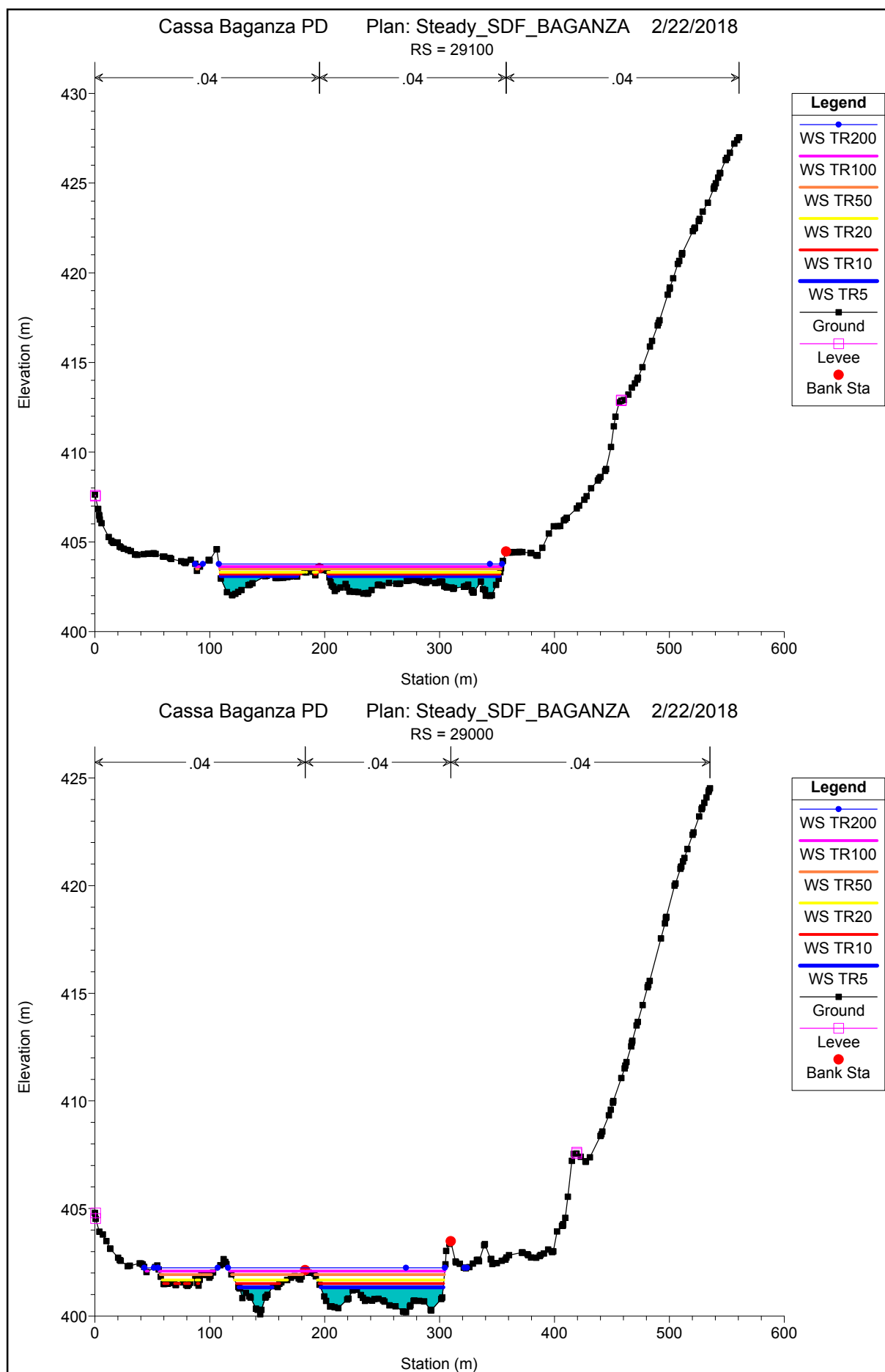
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Baganza	1300	TR10	306.00	62.52	65.14	64.53	65.59	0.005124	2.99	102.51	45.86	0.64
Baganza	1300	TR20	397.00	62.52	65.44	64.86	66.03	0.005804	3.41	116.36	46.61	0.69
Baganza	1300	TR50	542.00	62.52	65.85	65.33	66.66	0.006721	4.00	135.58	47.53	0.76
Baganza	1300	TR100	676.00	62.52	66.18	65.73	67.19	0.007397	4.46	151.61	48.27	0.80
Baganza	1300	TR200	835.00	62.52	66.55	66.17	67.78	0.008043	4.93	169.35	49.16	0.85
Baganza	1200	TR5	227.00	62.05	64.34	63.74	64.65	0.004762	2.47	91.87	52.72	0.60
Baganza	1200	TR10	306.00	62.05	64.71	64.07	65.08	0.005049	2.72	112.46	58.26	0.63
Baganza	1200	TR20	397.00	62.05	64.94	64.39	65.45	0.005898	3.14	126.34	59.14	0.69
Baganza	1200	TR50	542.00	62.05	65.25	64.85	65.96	0.007219	3.75	144.50	60.20	0.77
Baganza	1200	TR100	676.00	62.05	65.48	65.19	66.41	0.008439	4.27	158.39	61.00	0.85
Baganza	1200	TR200	835.00	62.05	65.72	65.56	66.90	0.009701	4.81	173.53	61.86	0.92
Baganza	1100	TR5	227.00	61.40	63.69	63.24	64.06	0.007373	2.70	84.18	58.73	0.72
Baganza	1100	TR10	306.00	61.40	64.11	63.59	64.47	0.007686	2.66	115.17	85.00	0.73
Baganza	1100	TR20	397.00	61.40	64.40	64.06	64.81	0.006946	2.83	140.19	87.04	0.71
Baganza	1100	TR50	542.00	61.40	64.75	64.37	65.26	0.006876	3.17	170.72	88.44	0.73
Baganza	1100	TR100	676.00	61.40	64.98	64.63	65.62	0.007387	3.53	191.57	89.25	0.77
Baganza	1100	TR200	835.00	61.40	65.39	64.91	66.05	0.007509	3.61	231.57	105.83	0.78
Baganza	1000	TR5	227.00	61.14	62.75	62.59	63.21	0.010055	2.99	76.05	57.80	0.83
Baganza	1000	TR10	306.00	61.14	63.02	62.86	63.59	0.010270	3.33	92.01	60.32	0.86
Baganza	1000	TR20	397.00	61.14	63.41	63.21	63.98	0.010024	3.35	118.67	75.76	0.85
Baganza	1000	TR50	542.00	61.14	64.01	63.59	64.52	0.007932	3.19	170.01	97.92	0.77
Baganza	1000	TR100	676.00	61.14	64.47	63.96	64.97	0.005669	3.13	216.26	99.44	0.68
Baganza	1000	TR200	835.00	61.14	65.02	64.22	65.50	0.004212	3.08	271.03	101.71	0.60
Baganza	900	TR5	227.00	60.26	62.32	61.82	62.57	0.004421	2.20	103.36	67.28	0.57
Baganza	900	TR10	306.00	60.26	62.68	62.06	62.98	0.004032	2.39	128.03	68.29	0.56
Baganza	900	TR20	397.00	60.26	63.07	62.31	63.41	0.003724	2.57	154.47	69.40	0.55
Baganza	900	TR50	542.00	60.26	63.63	62.67	64.03	0.003376	2.80	193.91	71.04	0.54
Baganza	900	TR100	676.00	60.26	64.11	62.97	64.56	0.003136	2.96	228.62	72.60	0.53
Baganza	900	TR200	835.00	60.26	64.67	63.30	65.16	0.002876	3.10	269.35	74.41	0.52
Baganza	800	TR5	227.00	59.57	61.86	61.29	62.13	0.004275	2.33	97.49	56.46	0.57
Baganza	800	TR10	306.00	59.57	62.23	61.56	62.57	0.004130	2.58	118.75	57.27	0.57
Baganza	800	TR20	397.00	59.57	62.61	61.84	63.02	0.004036	2.82	140.89	58.09	0.58
Baganza	800	TR50	542.00	59.57	63.17	62.25	63.67	0.003899	3.12	173.50	59.29	0.58
Baganza	800	TR100	676.00	59.57	63.65	62.59	64.22	0.003766	3.35	202.00	60.29	0.58
Baganza	800	TR200	835.00	59.57	64.20	62.96	64.84	0.003567	3.54	235.68	61.65	0.58
Baganza	700	TR5	227.00	59.23	61.13	60.83	61.58	0.007481	2.95	77.02	47.51	0.74
Baganza	700	TR10	306.00	59.23	61.53	61.13	62.05	0.006729	3.18	96.09	48.44	0.72
Baganza	700	TR20	397.00	59.23	61.85	61.45	62.49	0.007088	3.56	111.50	49.21	0.76
Baganza	700	TR50	542.00	59.23	62.36	61.89	63.16	0.006939	3.96	136.99	50.45	0.77
Baganza	700	TR100	676.00	59.23	62.83	62.27	63.73	0.006510	4.19	161.29	51.62	0.76
Baganza	700	TR200	835.00	59.23	63.43	62.69	64.39	0.005753	4.33	192.64	53.03	0.73
Baganza	555.65	TR5	227.00	58.52	60.83	59.97	61.01	0.002387	1.88	120.91	61.49	0.43
Baganza	555.65	TR10	306.00	58.52	61.36	60.22	61.56	0.002016	2.00	153.36	62.15	0.41
Baganza	555.65	TR20	397.00	58.52	61.70	60.48	61.96	0.002240	2.27	174.57	62.58	0.43
Baganza	555.65	TR50	542.00	58.52	62.30	60.86	62.63	0.002247	2.55	212.17	63.49	0.45
Baganza	555.65	TR100	676.00	58.52	62.85	61.18	63.23	0.002156	2.73	247.40	64.40	0.44
Baganza	555.65	TR200	835.00	58.52	63.51	61.53	63.93	0.002006	2.87	290.85	66.17	0.44
Baganza	544.11	TR5	227.00	58.37	60.83	59.87	60.99	0.002034	1.78	127.79	62.59	0.40
Baganza	544.11	TR10	306.00	58.37	61.36	60.12	61.54	0.001755	1.90	161.12	63.43	0.38
Baganza	544.11	TR20	397.00	58.37	61.70	60.38	61.94	0.001970	2.17	182.90	63.98	0.41
Baganza	544.11	TR50	542.00	58.37	62.30	60.75	62.60	0.001995	2.45	221.63	64.93	0.42
Baganza	544.11	TR100	676.00	58.37	62.85	61.07	63.20	0.001926	2.62	257.87	65.83	0.42
Baganza	544.11	TR200	835.00	58.37	63.52	61.42	63.91	0.001790	2.76	302.23	66.99	0.42
Baganza	544		Bridge									
Baganza	527.96	TR5	227.00	58.25	60.75	59.90	60.94	0.001715	1.93	117.89	59.59	0.44
Baganza	527.96	TR10	306.00	58.25	61.29	60.15	61.50	0.001442	2.04	149.86	60.37	0.41
Baganza	527.96	TR20	397.00	58.25	61.61	60.42	61.89	0.001639	2.34	169.46	60.85	0.45
Baganza	527.96	TR50	542.00	58.25	62.20	60.81	62.55	0.001659	2.64	205.39	61.71	0.46
Baganza	527.96	TR100	676.00	58.25	62.74	61.14	63.14	0.001601	2.83	239.03	62.54	0.46
Baganza	527.96	TR200	835.00	58.25	63.30	61.50	63.77	0.001587	3.04	274.44	63.48	0.47
Baganza	516.43	TR5	227.00	58.17	60.75	59.76	60.92	0.001437	1.85	122.96	58.62	0.41
Baganza	516.43	TR10	306.00	58.17	61.28	60.03	61.48	0.001258	1.98	154.36	59.29	0.39
Baganza	516.43	TR20	397.00	58.17	61.60	60.31	61.87	0.001458	2.29	173.49	59.70	0.43
Baganza	516.43	TR50	542.00	58.17	62.19	60.71	62.53	0.001515	2.60	208.55	60.43	0.45
Baganza	516.43	TR100	676.00	58.17	62.73	61.04	63.13	0.001488	2.80	241.31	61.10	0.45
Baganza	516.43	TR200	835.00	58.17	63.29	61.40	63.75	0.001496	3.03	275.63	61.78	0.46
Baganza	400	TR5	227.00	57.59	60.33	59.64	60.69	0.002958	2.67	85.13	40.28	0.59
Baganza	400	TR10	306.00	57.59	60.86	60.00	61.28	0.002702	2.86	107.09	42.51	0.57
Baganza	400	TR20	397.00	57.59	60.96	60.36	61.60	0.004069	3.57	111.19	42.92	0.71
Baganza	400	TR50	542.00	57.59	61.28	60.89	62.23	0.005333	4.33	125.18	44.22	0.82
Baganza	400	TR100	676.00	57.59	61.74	61.33	62.83	0.005226	4.62	146.22	45.94	0.83

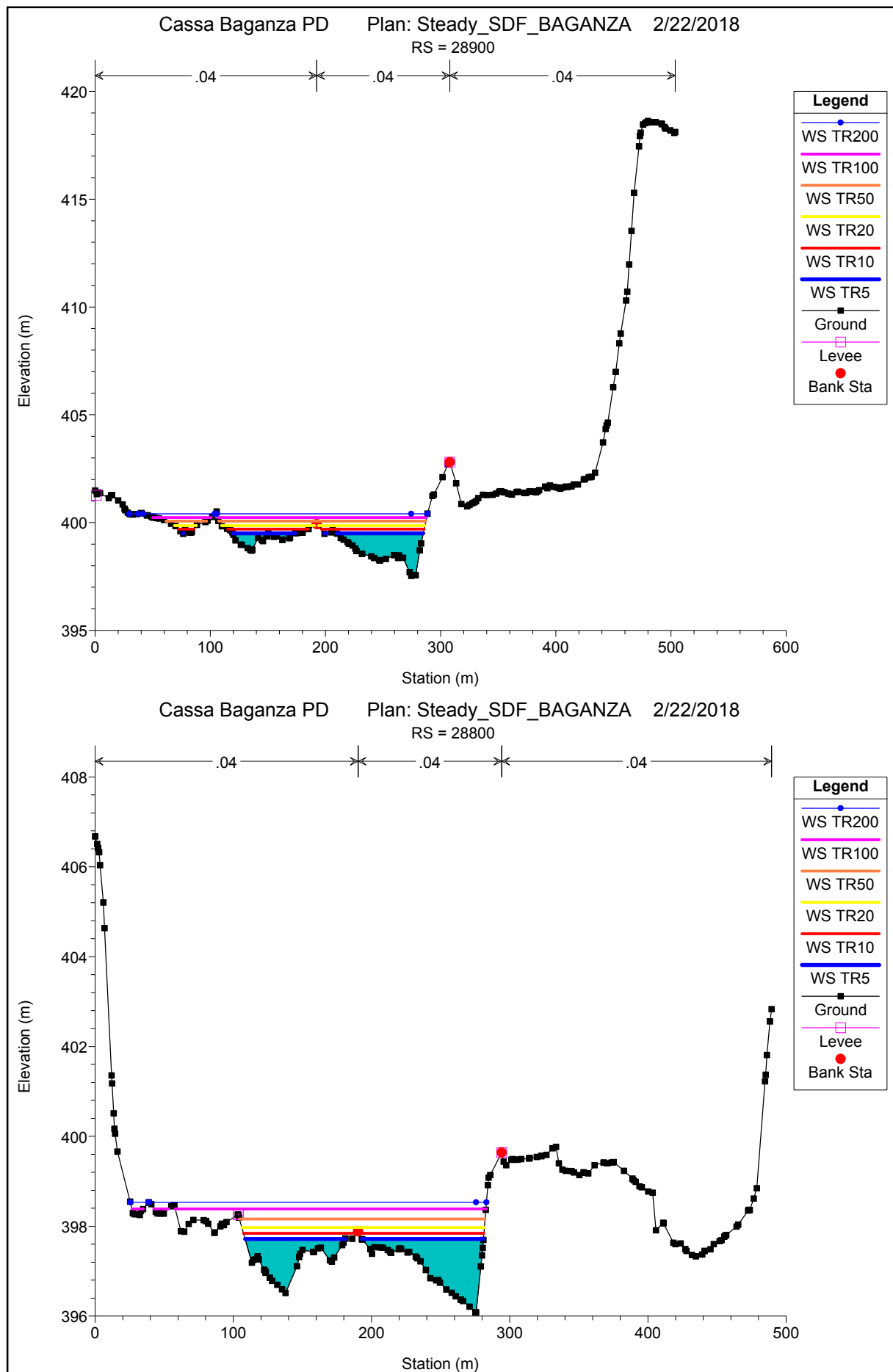
HEC-RAS Plan: SDEADY SDP River: BAganza Reach: BAganza (Continued)

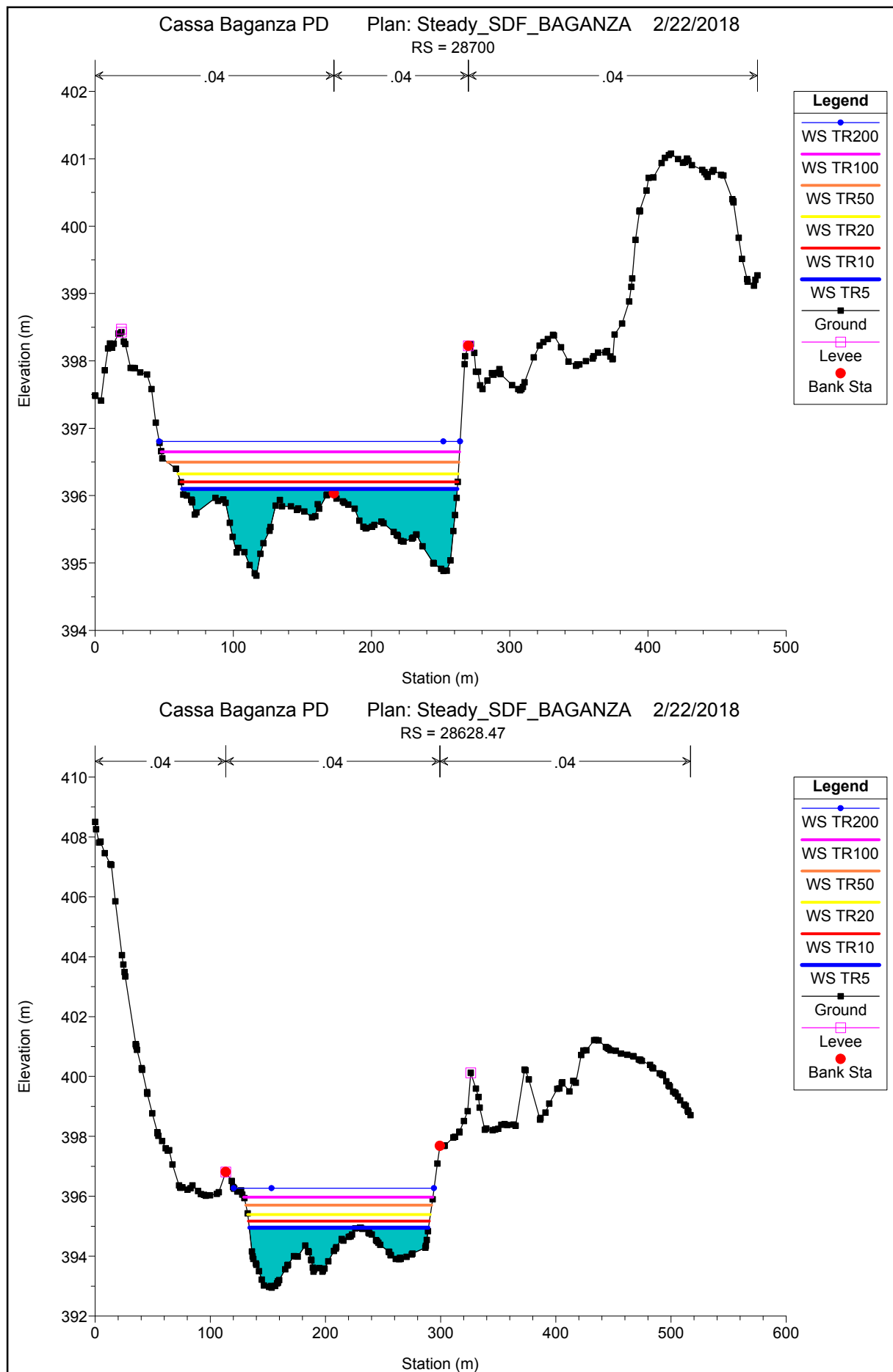
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Baganza	400	TR200	835.00	57.59	62.14	61.79	63.45	0.005596	5.06	164.95	47.47	0.87
Baganza	300	TR5	227.00	57.18	60.22	59.10	60.47	0.001778	2.21	102.76	43.85	0.46
Baganza	300	TR10	306.00	57.18	60.77	59.46	61.06	0.001725	2.39	127.84	47.19	0.46
Baganza	300	TR20	397.00	57.18	60.77	59.84	61.26	0.002892	3.10	128.04	47.22	0.60
Baganza	300	TR50	542.00	57.18	60.86	60.38	61.72	0.004941	4.10	132.28	48.01	0.79
Baganza	300	TR100	676.00	57.18	60.83	60.83	62.19	0.007977	5.18	130.45	47.67	1.00
Baganza	300	TR200	835.00	57.18	61.30	61.30	62.80	0.007732	5.42	154.19	51.51	1.00
Baganza	200	TR5	227.00	56.86	59.64	59.16	60.20	0.004532	3.29	68.95	32.49	0.72
Baganza	200	TR10	306.00	56.86	60.30	59.59	60.78	0.005444	3.06	100.13	61.36	0.76
Baganza	200	TR20	397.00	56.86	60.72	60.29	60.98	0.002830	2.45	192.82	156.41	0.57
Baganza	200	TR50	542.00	56.86	61.16	60.66	61.41	0.002121	2.42	262.70	157.35	0.51
Baganza	200	TR100	676.00	56.86	61.52	60.84	61.77	0.001828	2.45	318.49	158.09	0.48
Baganza	200	TR200	835.00	56.86	61.89	61.03	62.16	0.001642	2.50	378.22	159.51	0.46
Baganza	100	TR5	227.00	56.62	58.74	58.74	59.56	0.009494	4.00	56.69	34.77	1.00
Baganza	100	TR10	306.00	56.62	59.14	59.14	60.09	0.009004	4.33	70.74	37.08	1.00
Baganza	100	TR20	397.00	56.62	59.73	59.73	60.50	0.009491	3.90	101.82	66.11	1.00
Baganza	100	TR50	542.00	56.62	60.17	60.17	61.02	0.009119	4.10	132.42	77.50	1.00
Baganza	100	TR100	676.00	56.62	60.47	60.47	61.42	0.008824	4.32	156.71	82.65	1.00
Baganza	100	TR200	835.00	56.62	60.82	60.82	61.84	0.008564	4.49	186.25	90.66	1.00
Baganza	0	TR5	227.00	56.50	58.59	57.90	58.75	0.002002	1.79	127.11	83.71	0.46
Baganza	0	TR10	306.00	56.50	59.27	58.13	59.39	0.002003	1.53	199.97	166.10	0.45
Baganza	0	TR20	397.00	56.50	59.57	58.38	59.69	0.002001	1.55	256.85	209.91	0.45
Baganza	0	TR50	542.00	56.50	59.84	58.70	59.99	0.002002	1.71	317.14	222.96	0.46
Baganza	0	TR100	676.00	56.50	60.06	59.24	60.23	0.002001	1.85	366.09	228.98	0.47
Baganza	0	TR200	835.00	56.50	60.28	59.51	60.49	0.002002	2.00	416.83	230.77	0.48

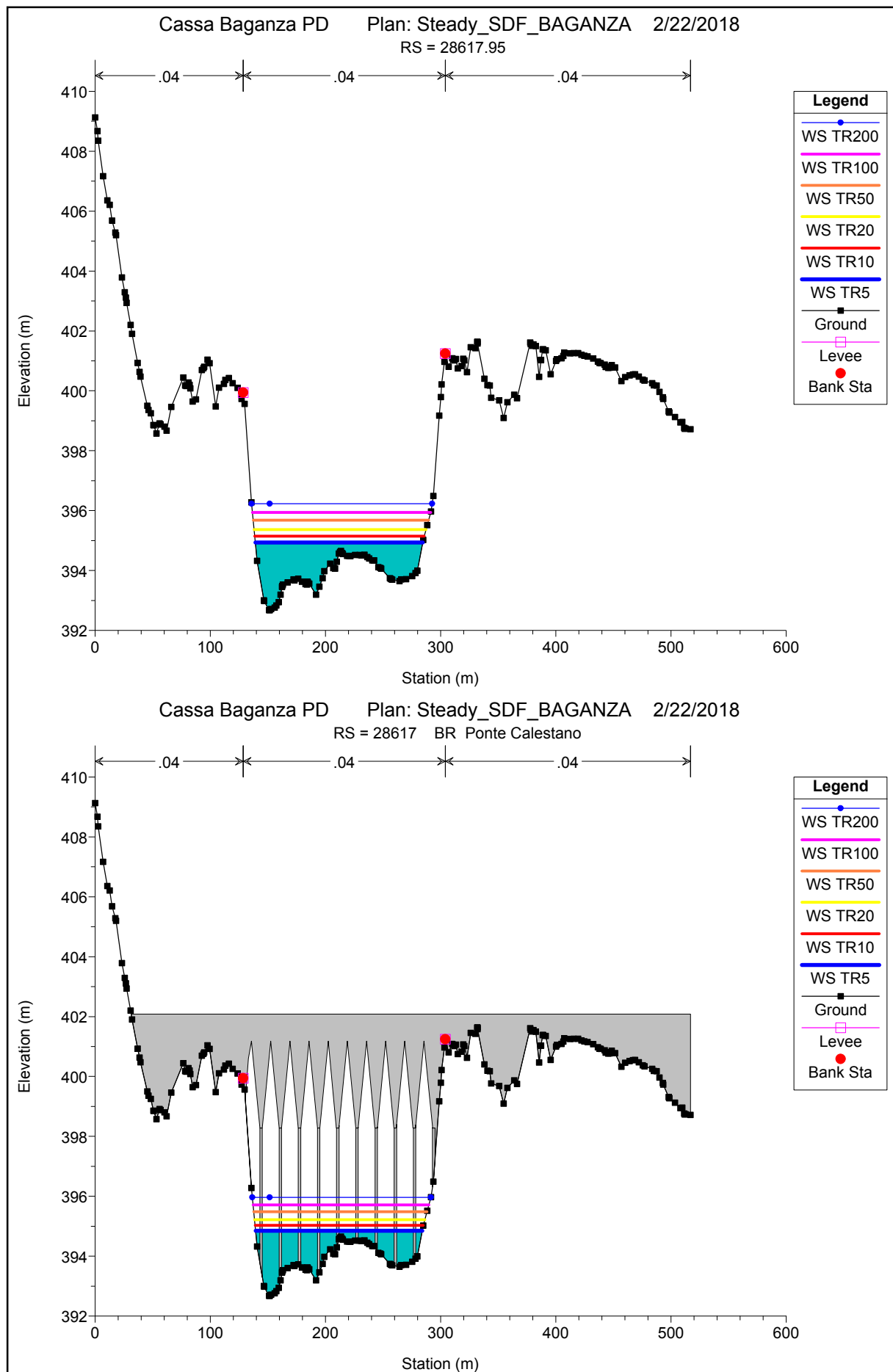


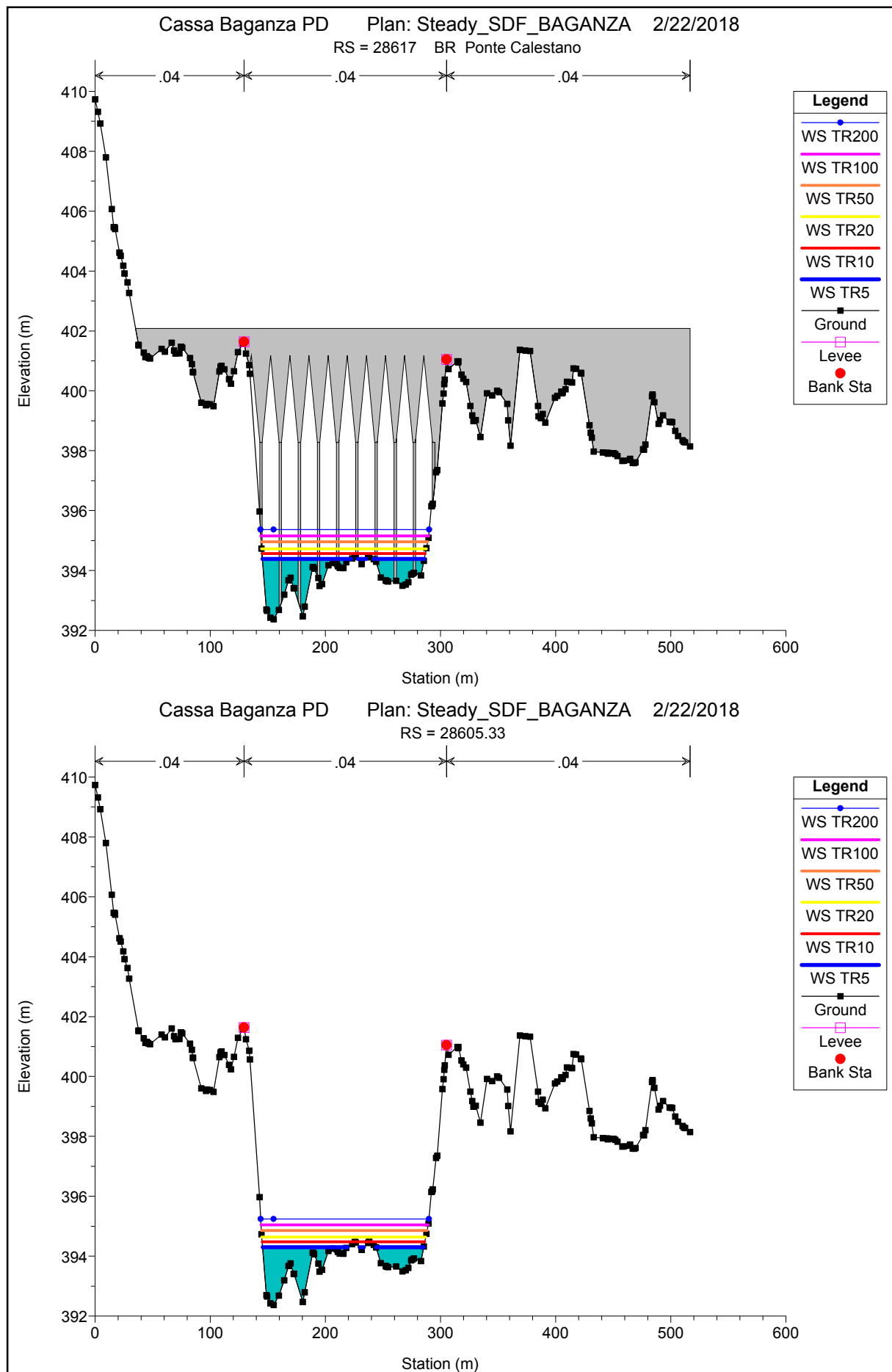


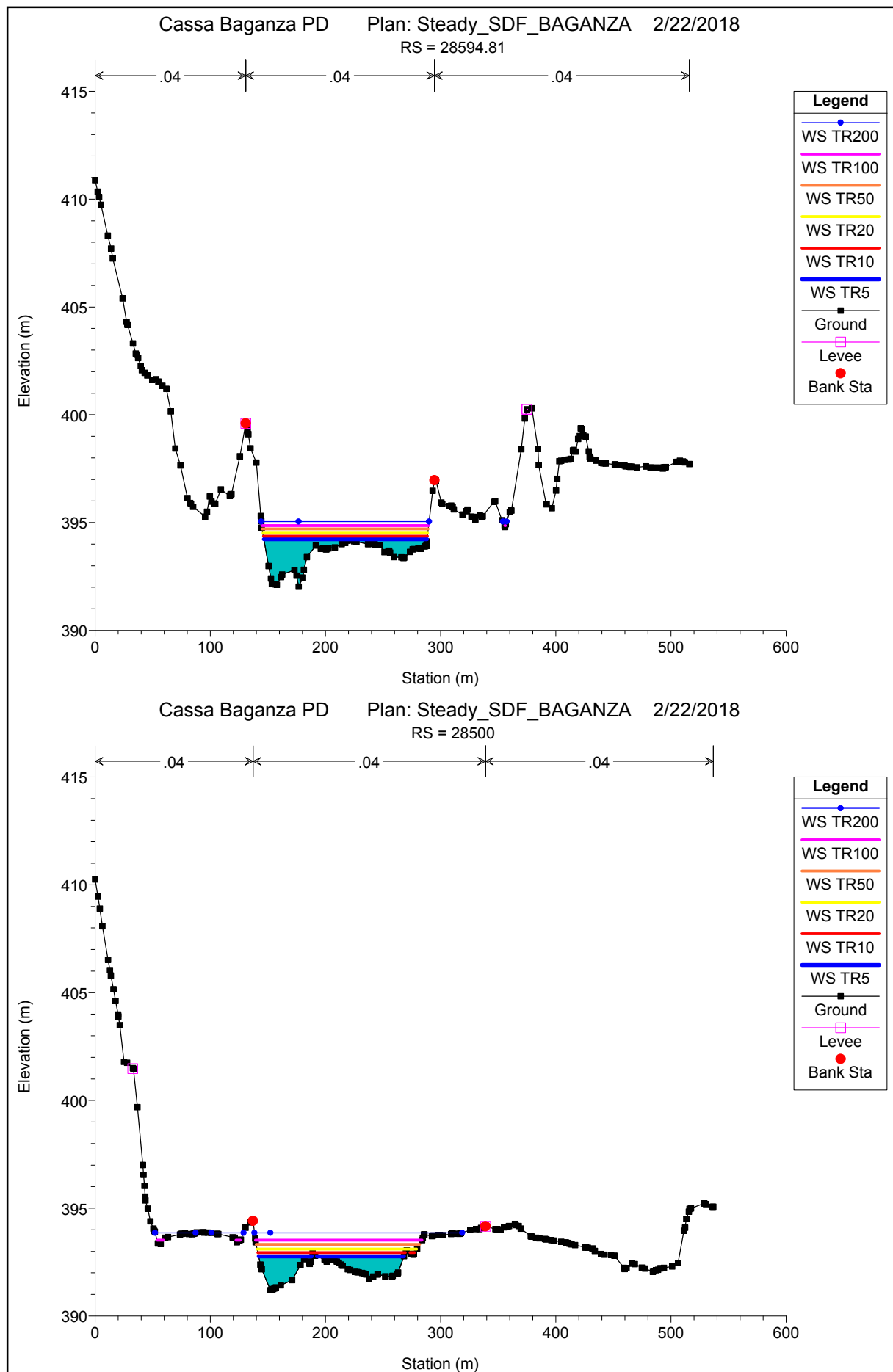


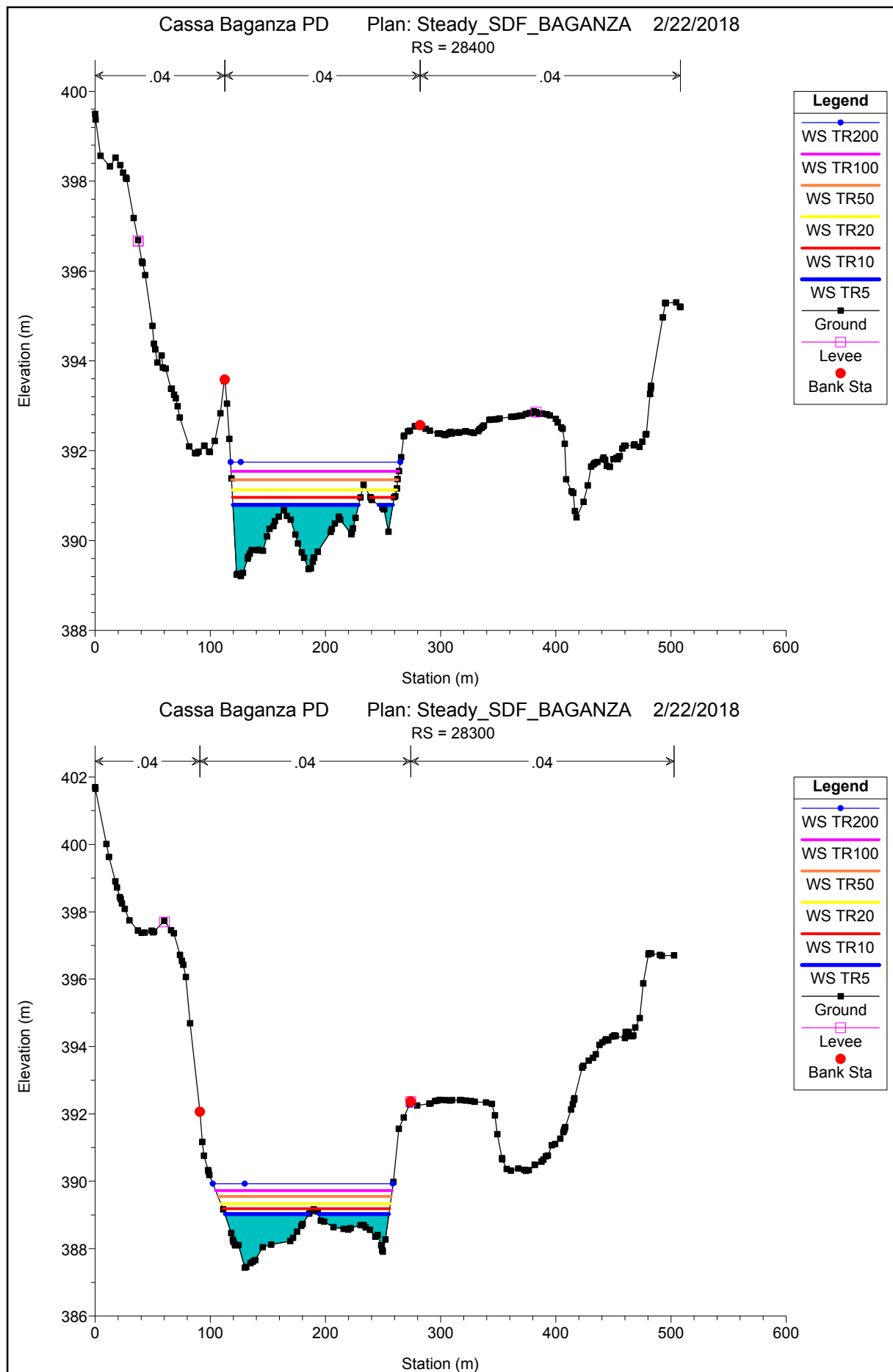




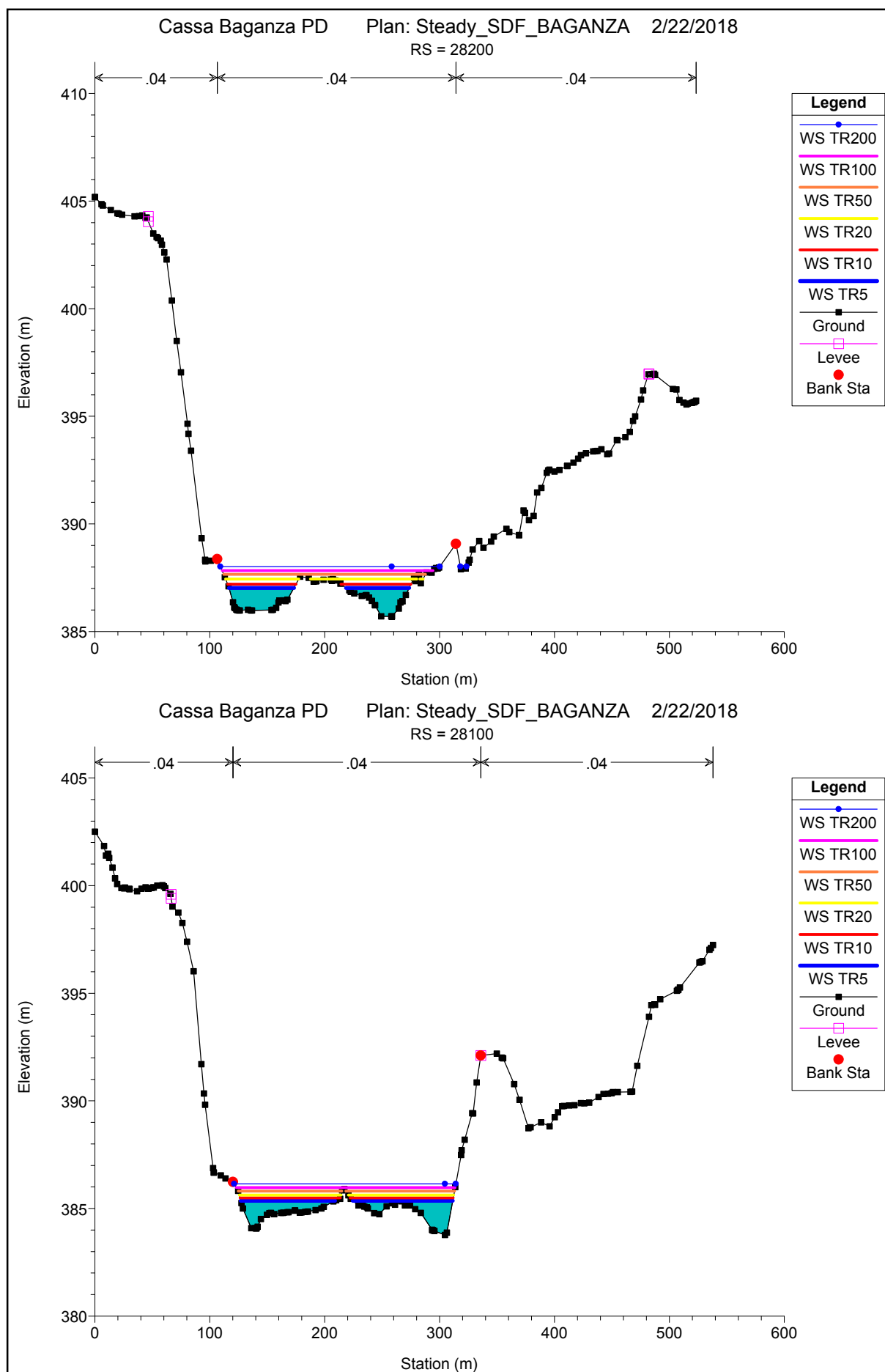


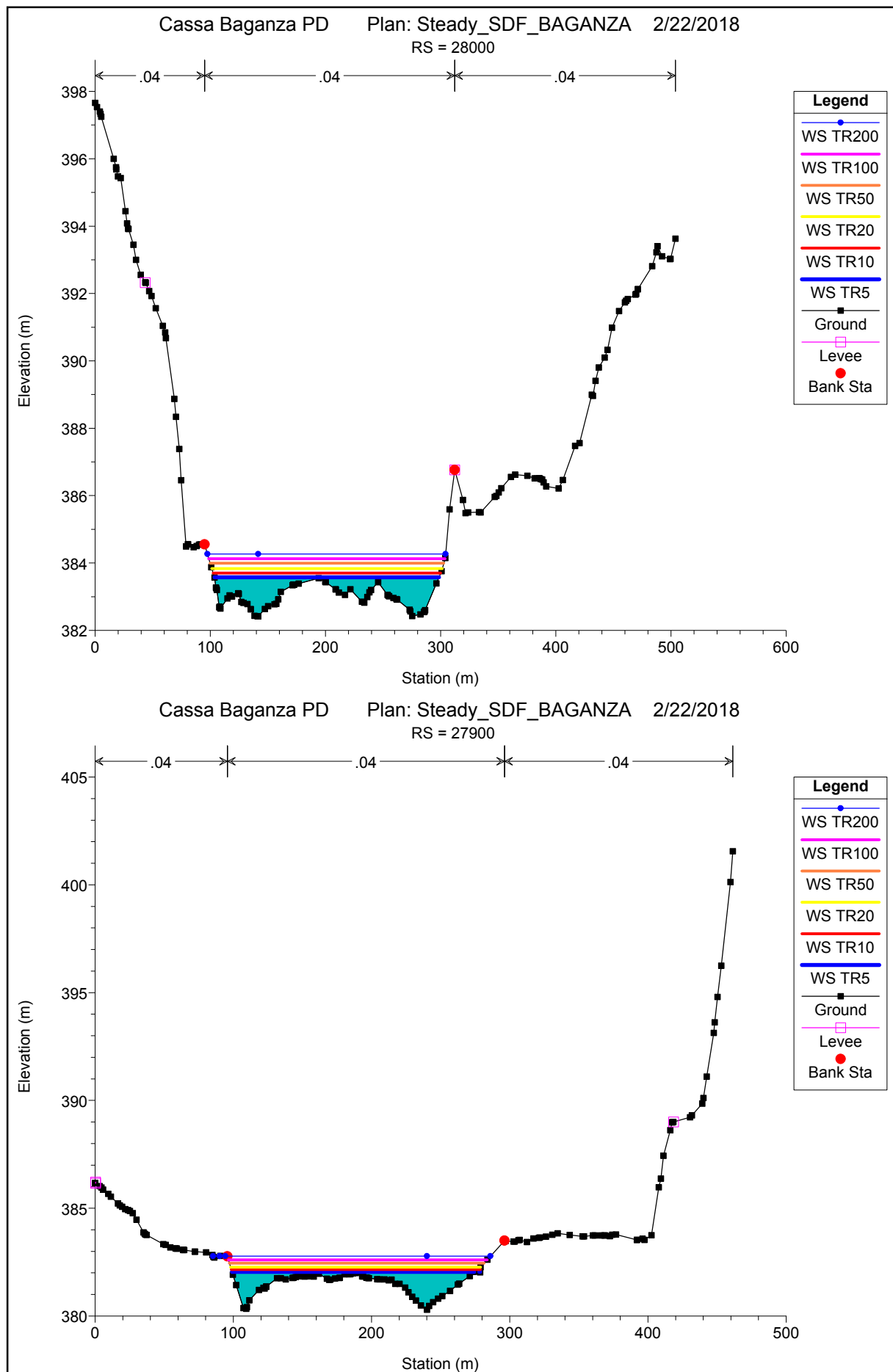


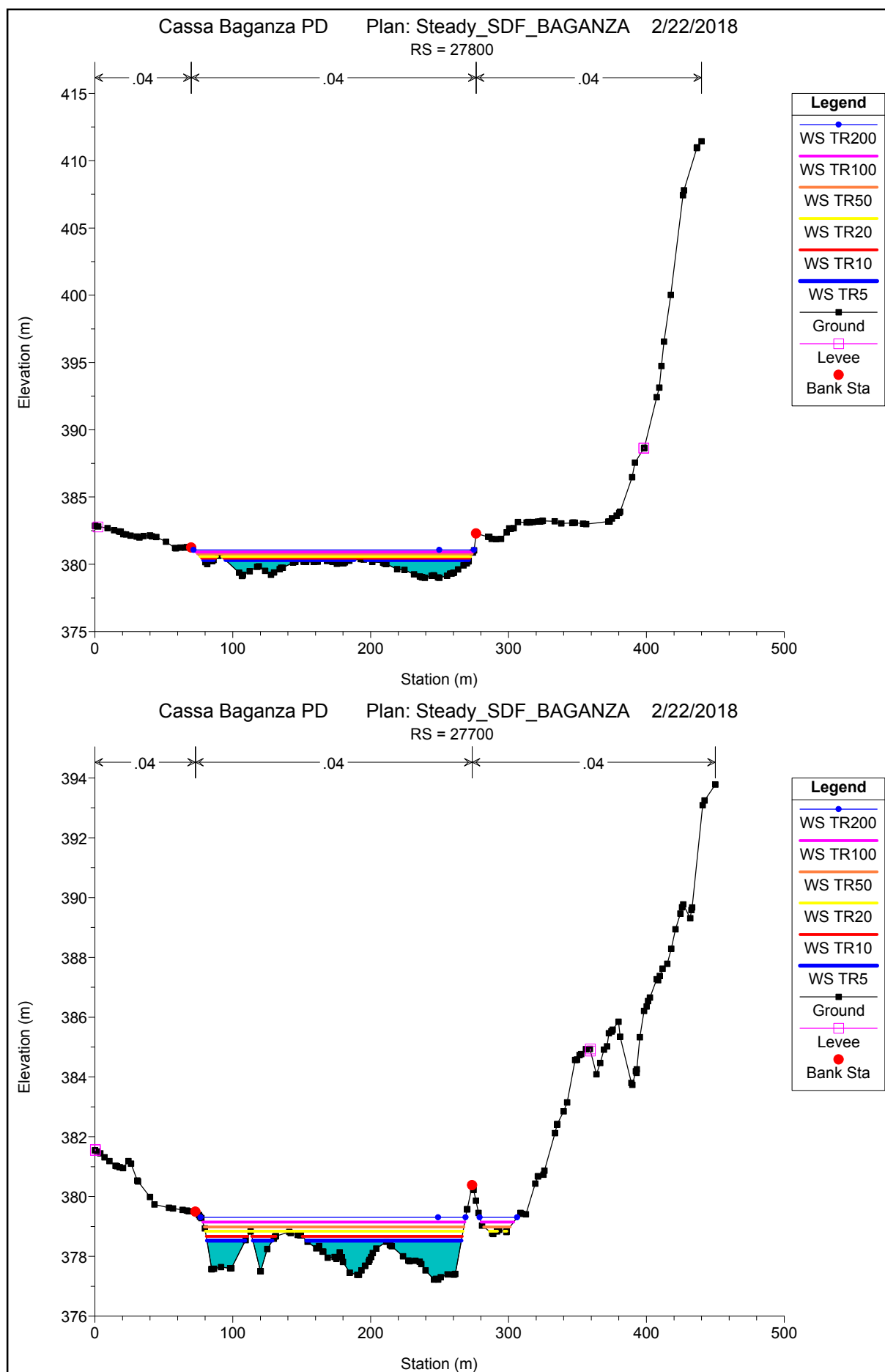


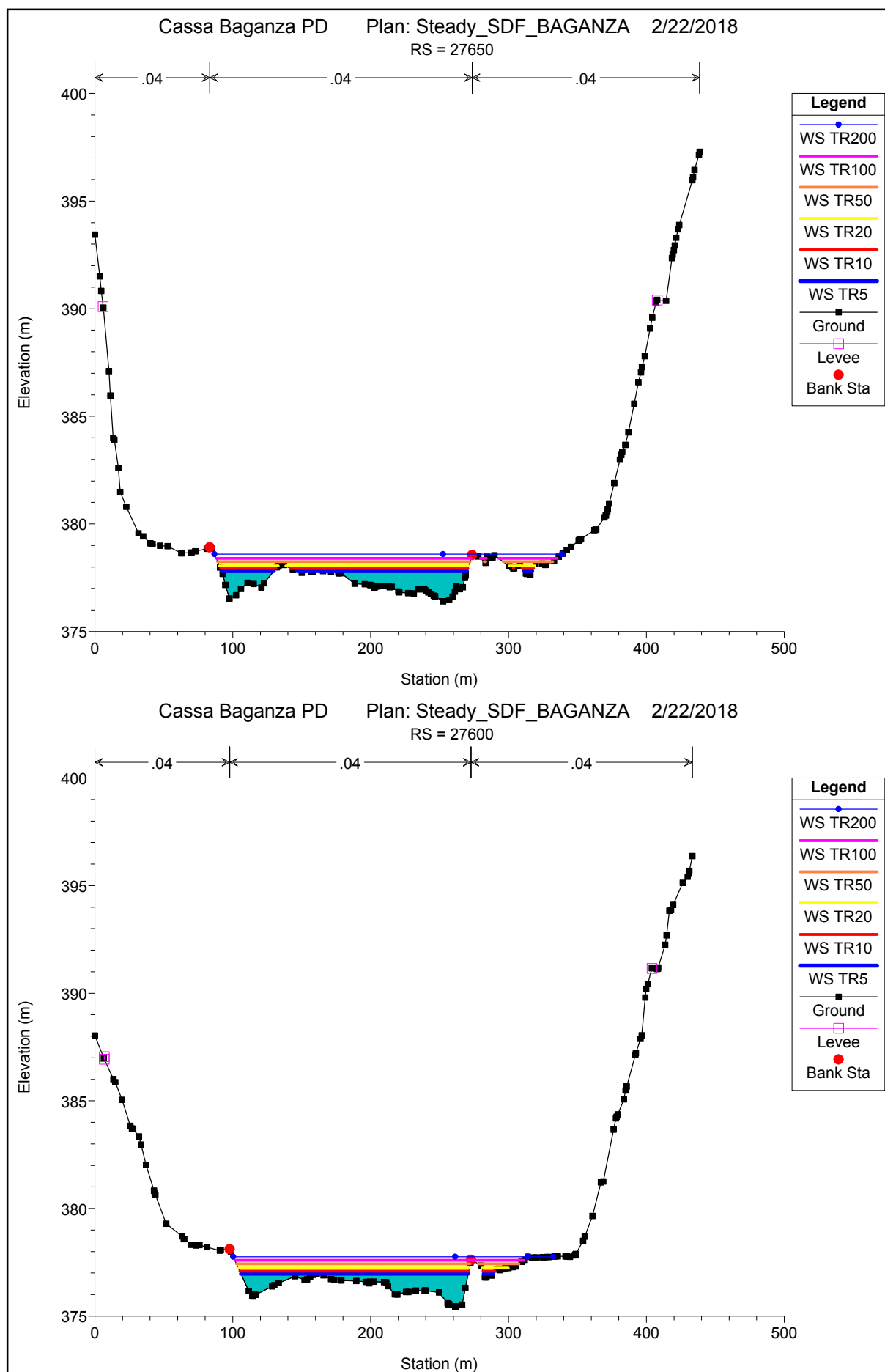


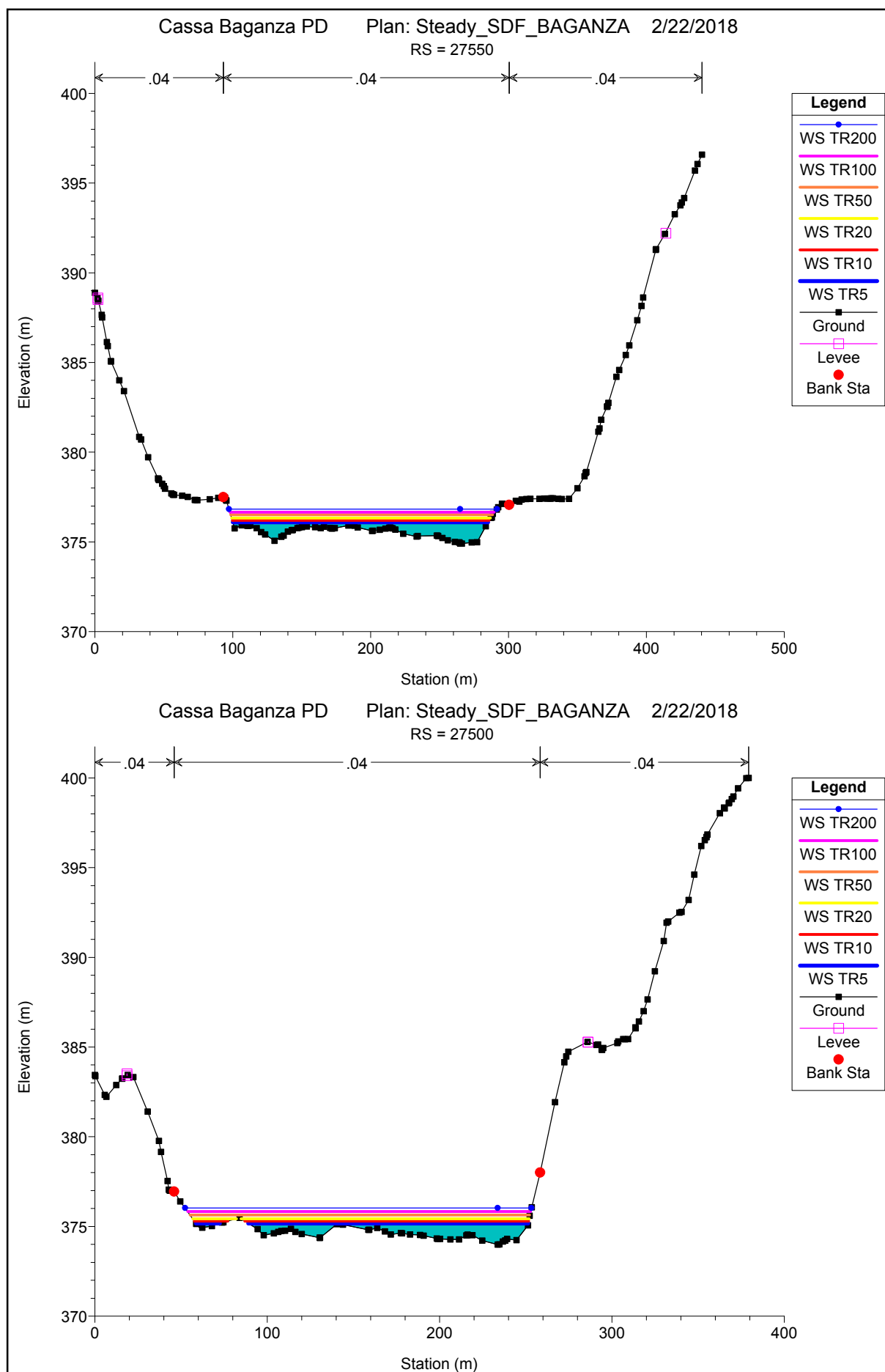


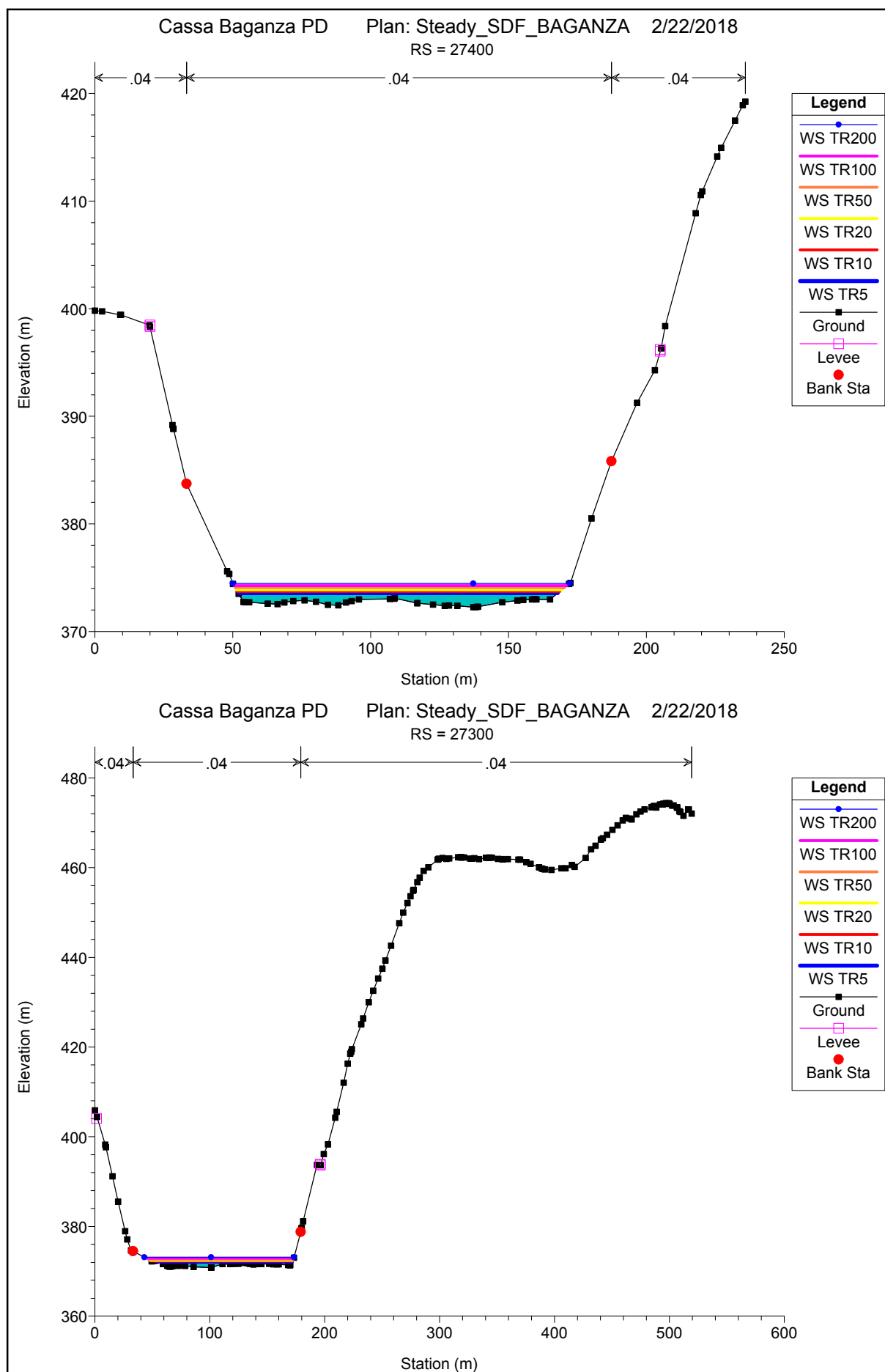


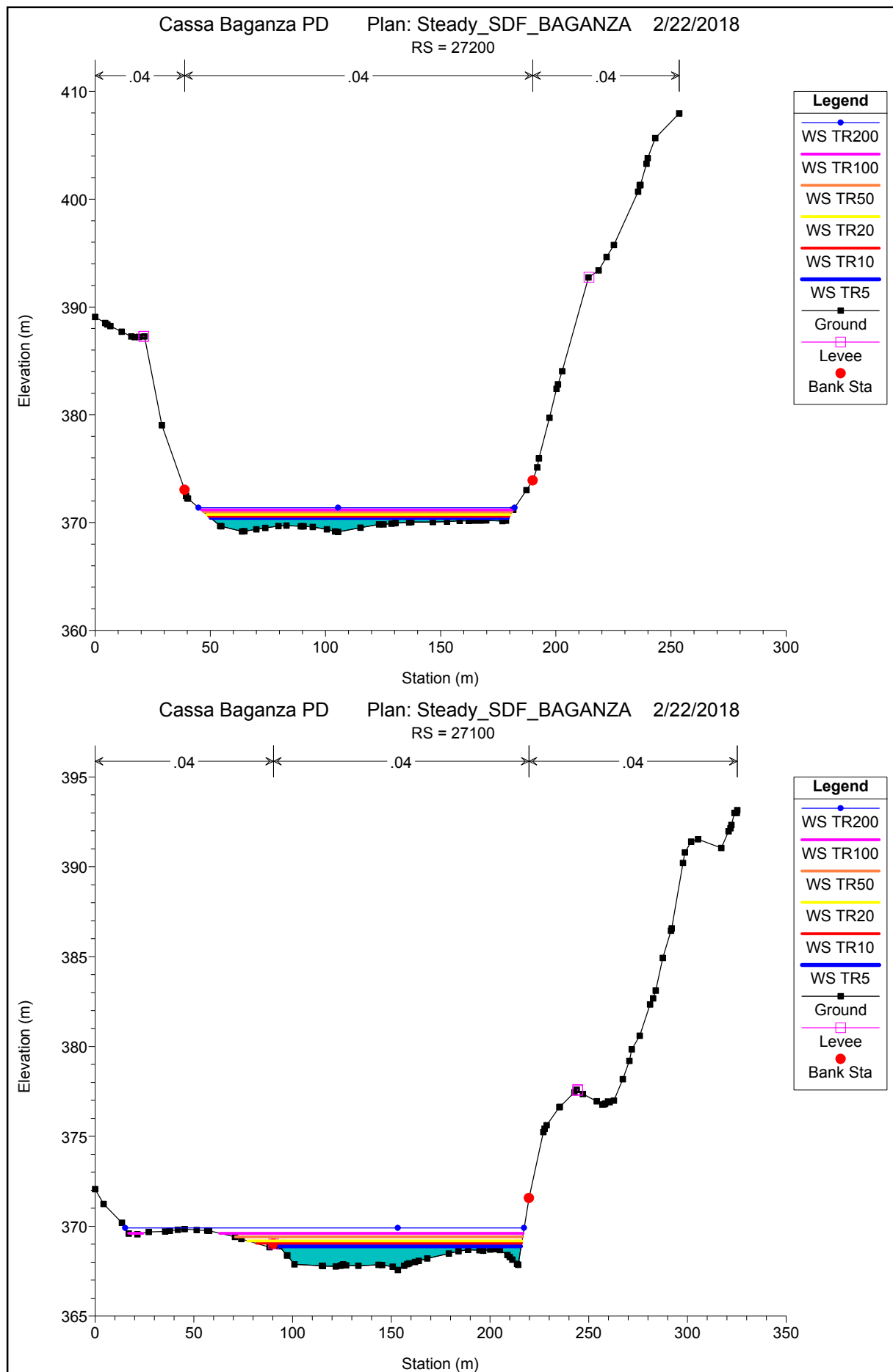


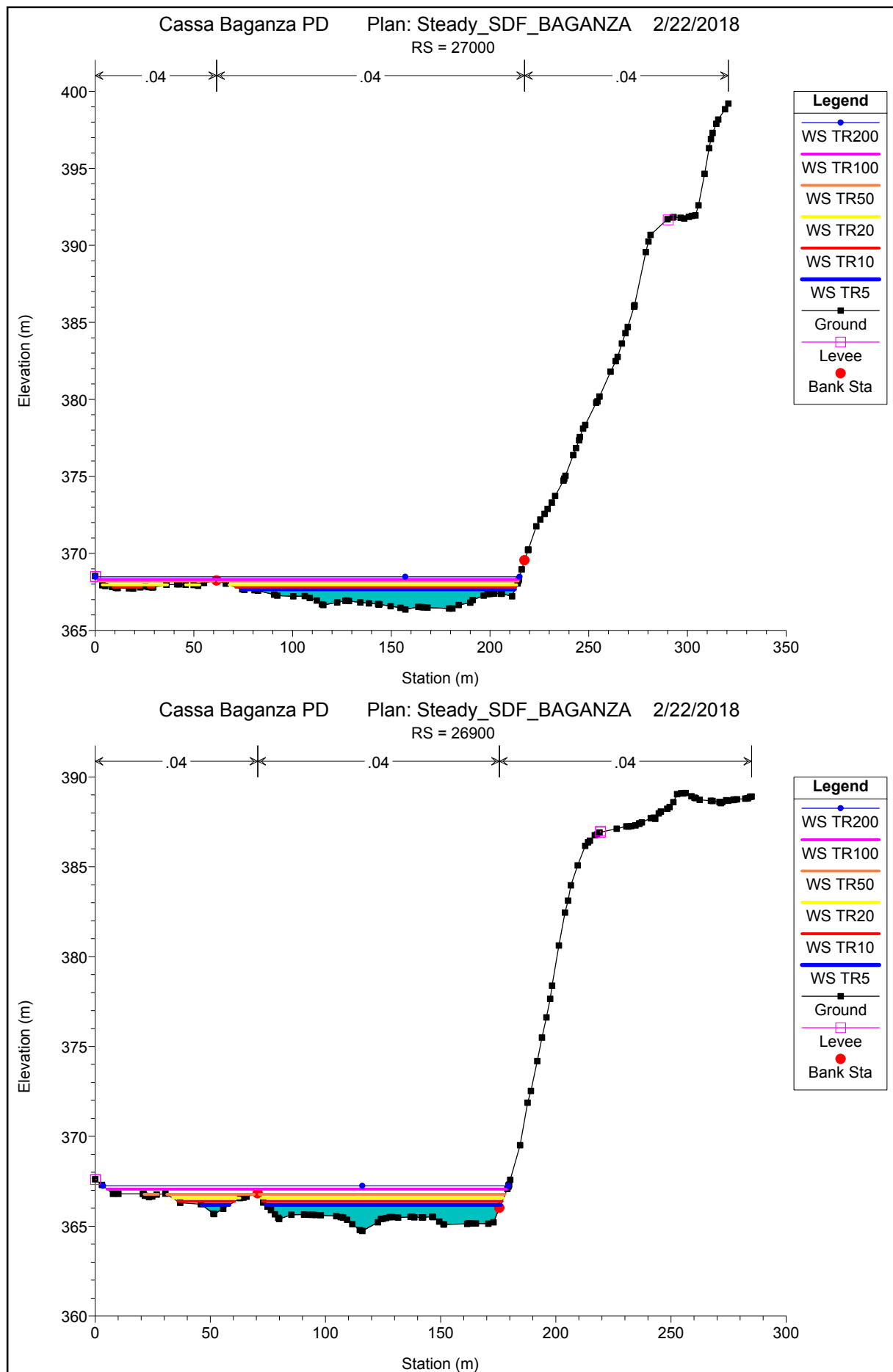




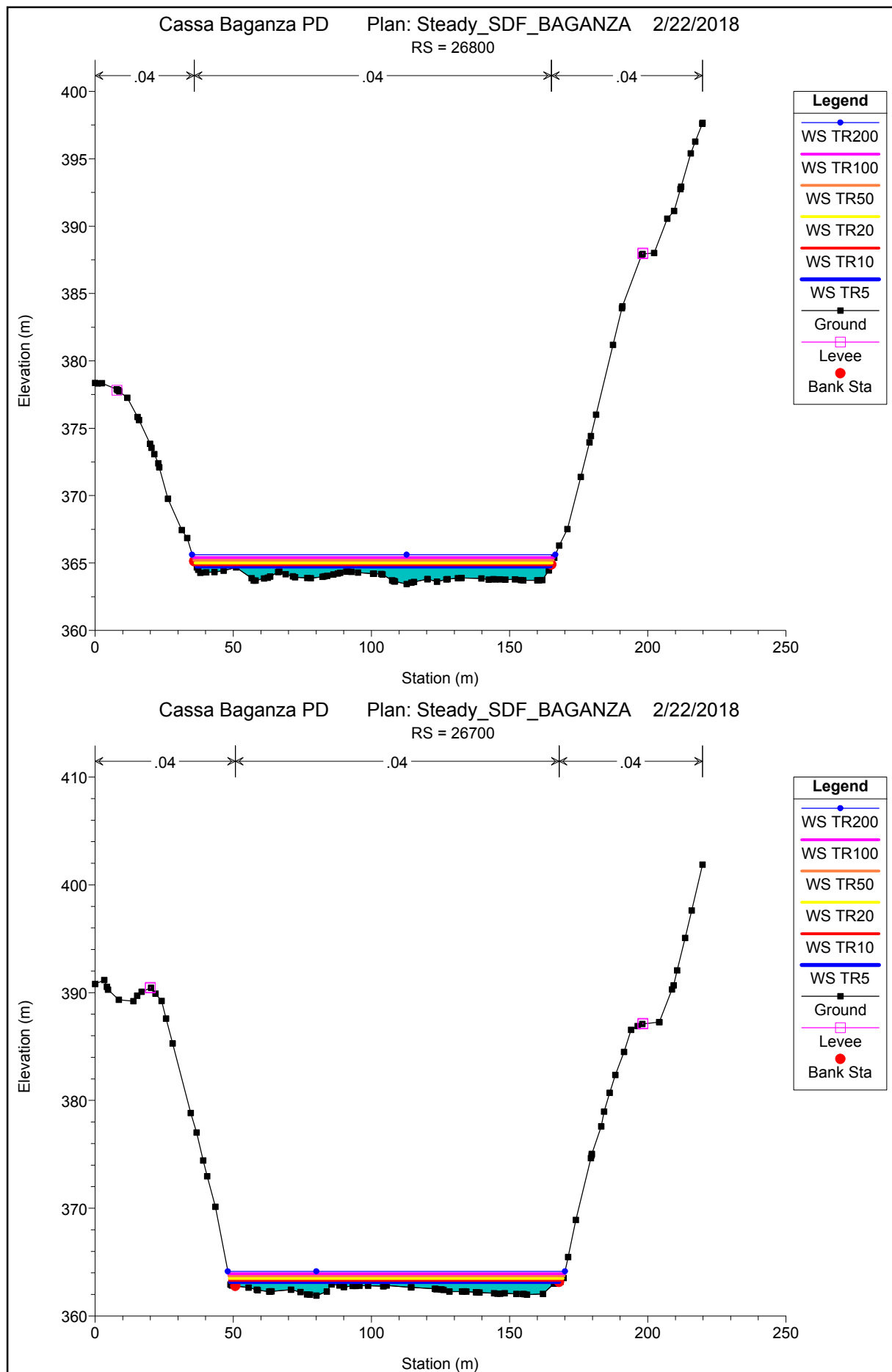


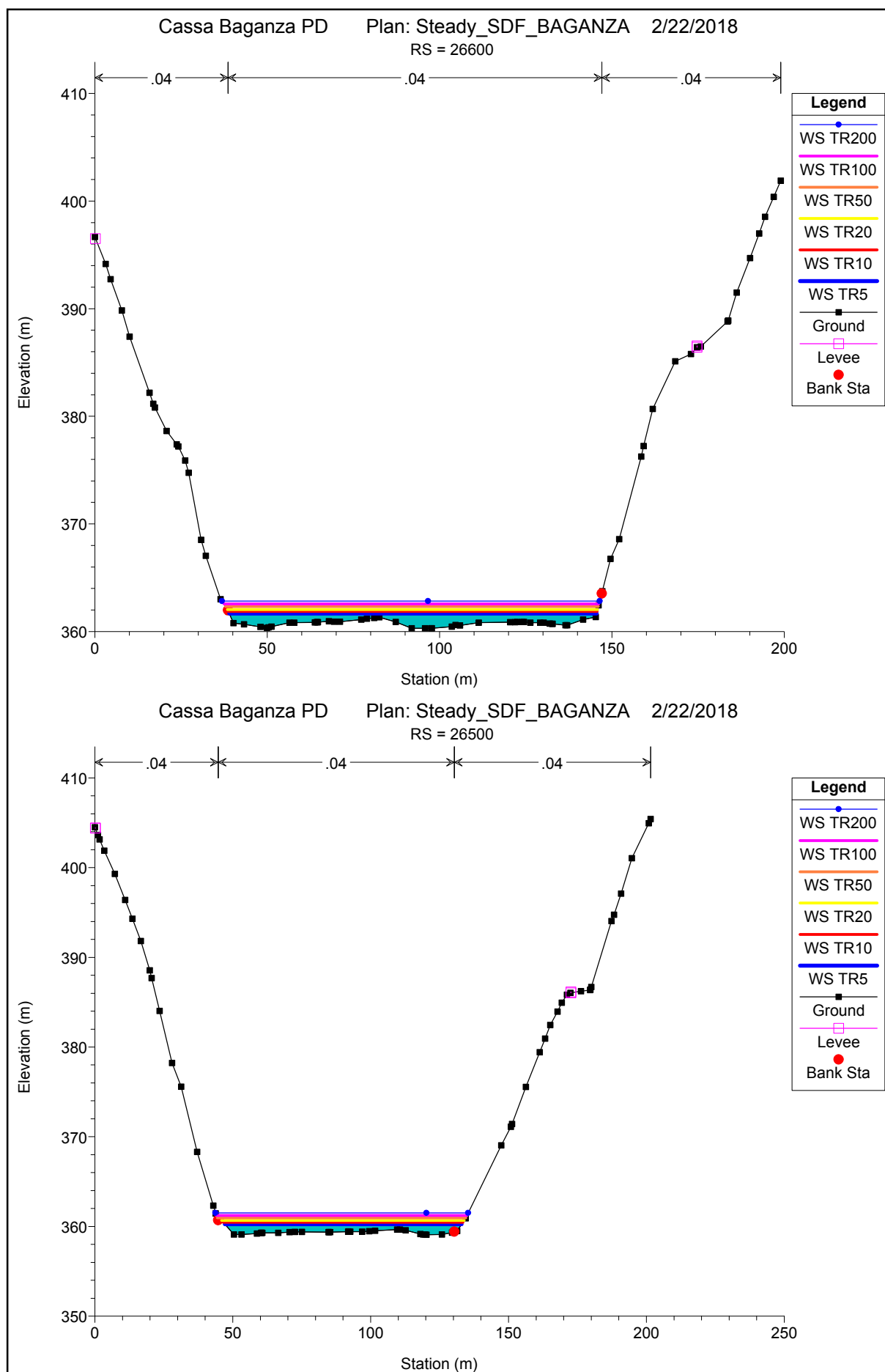


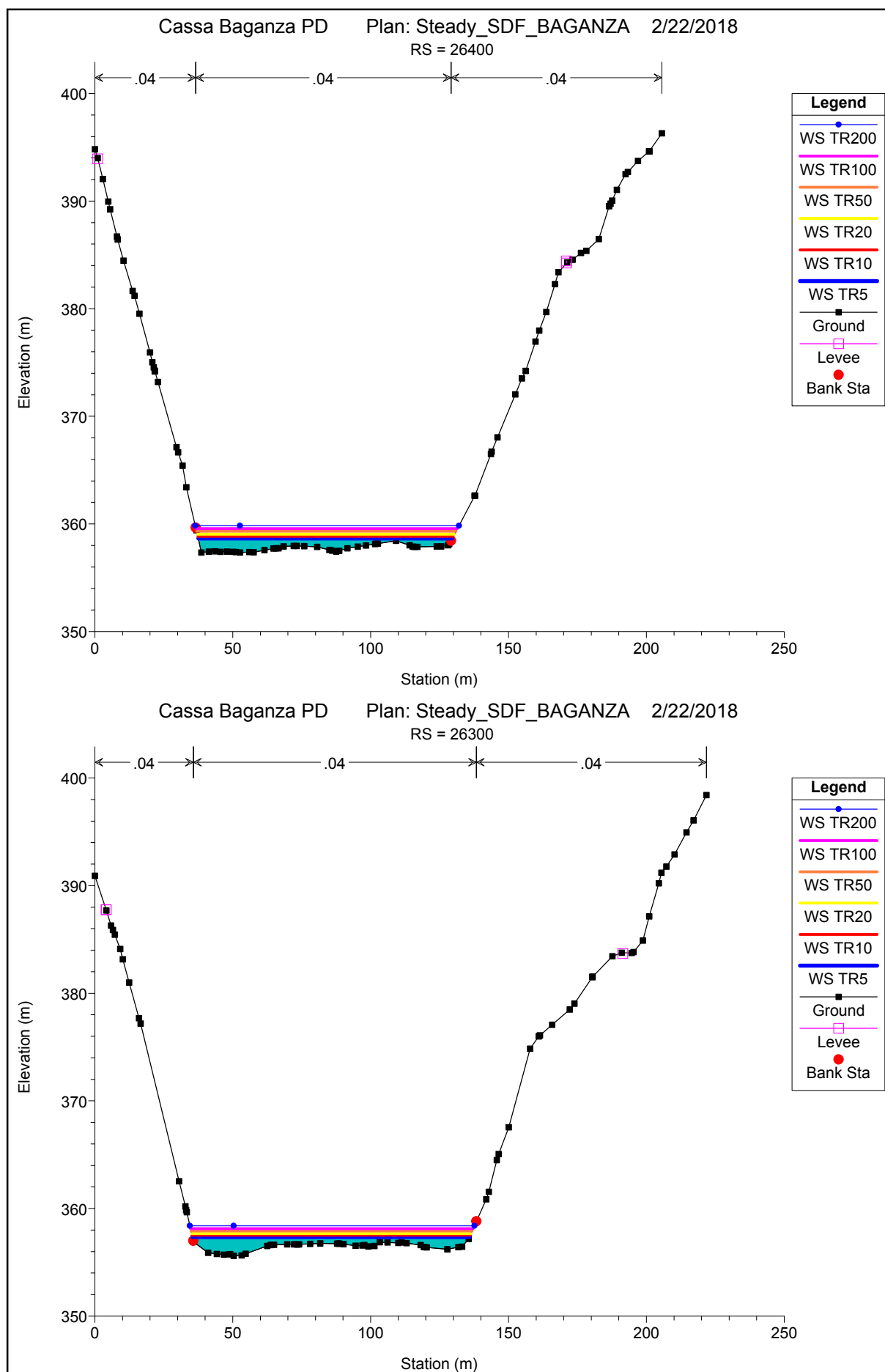


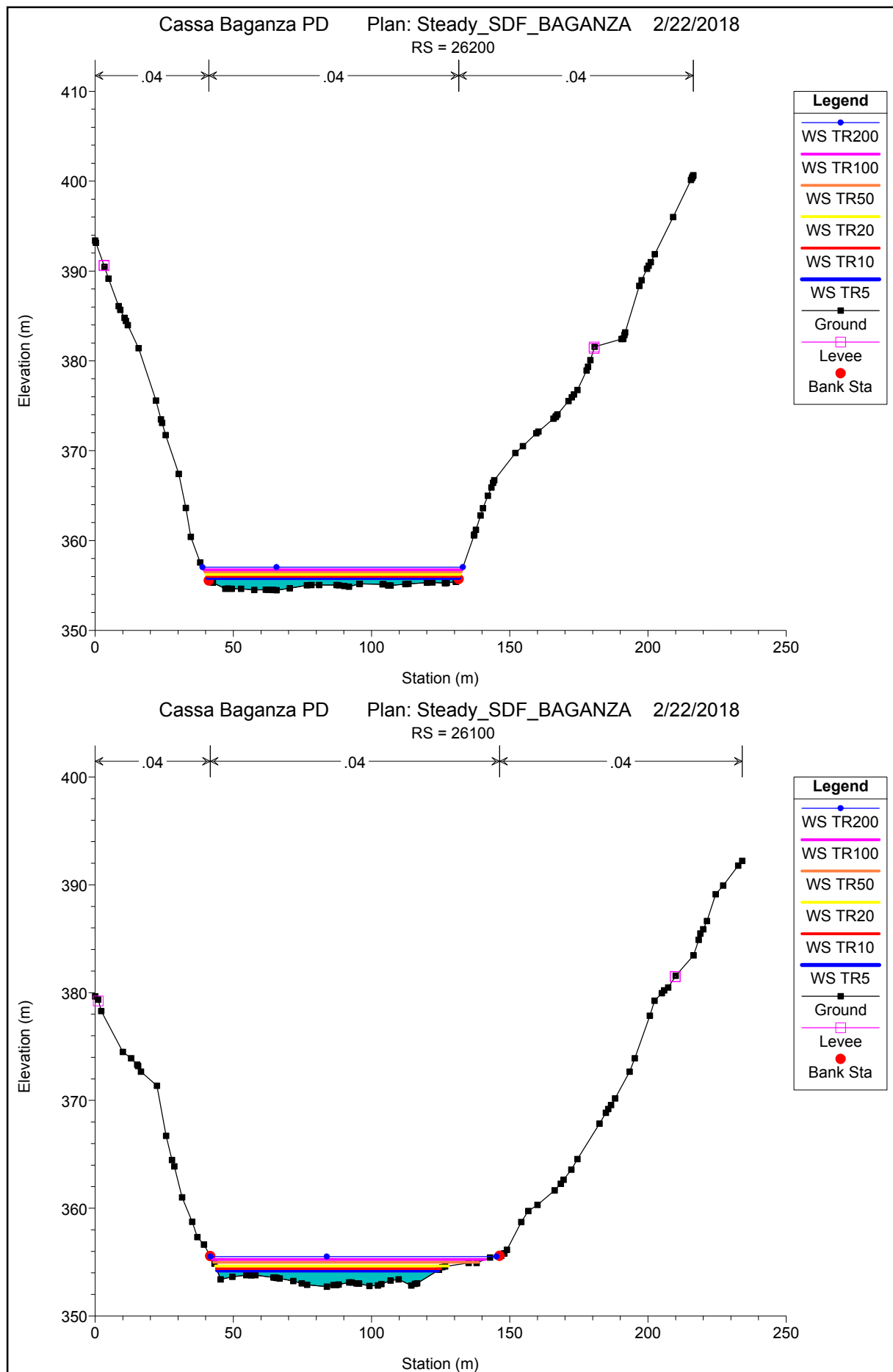


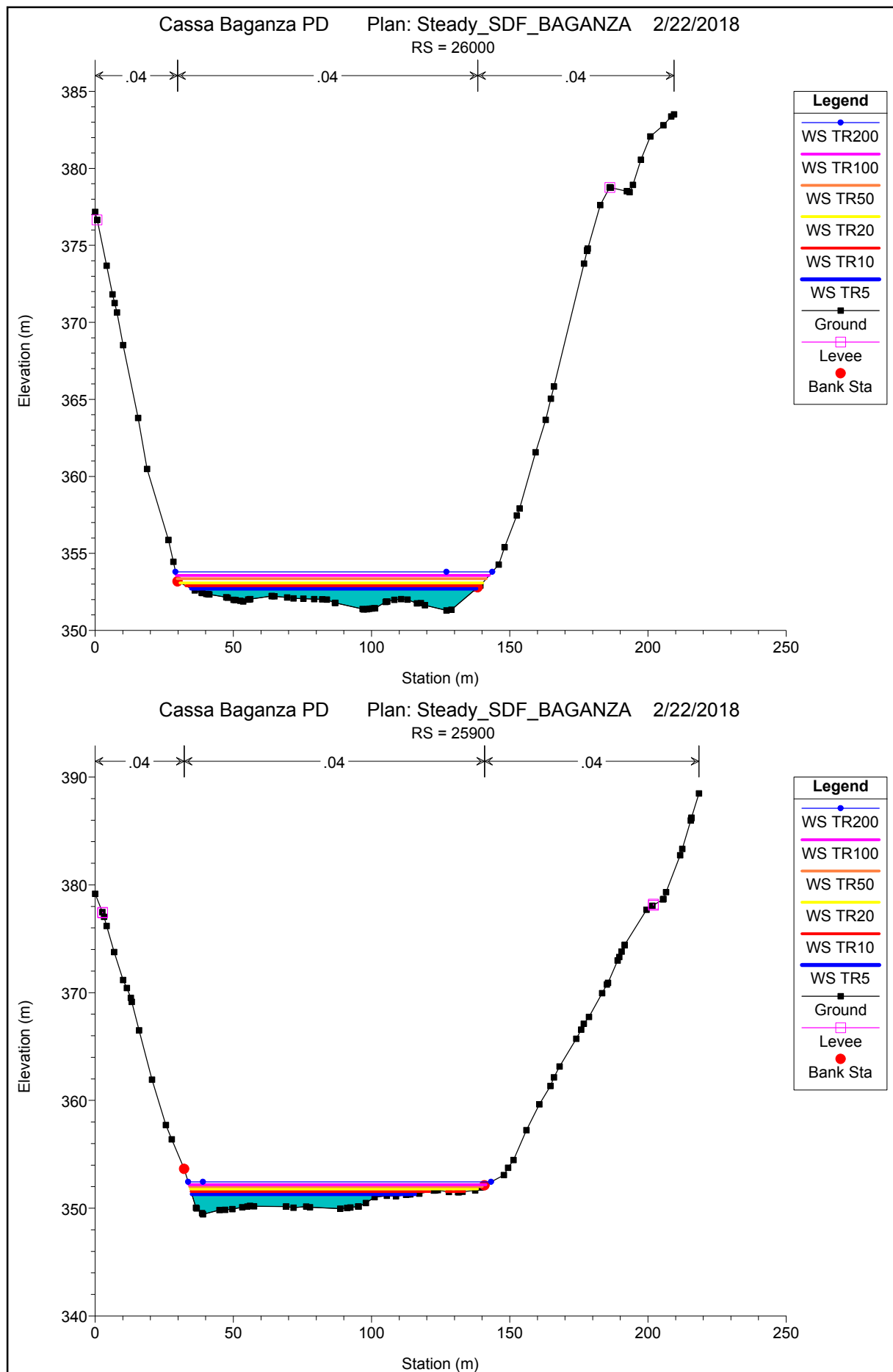


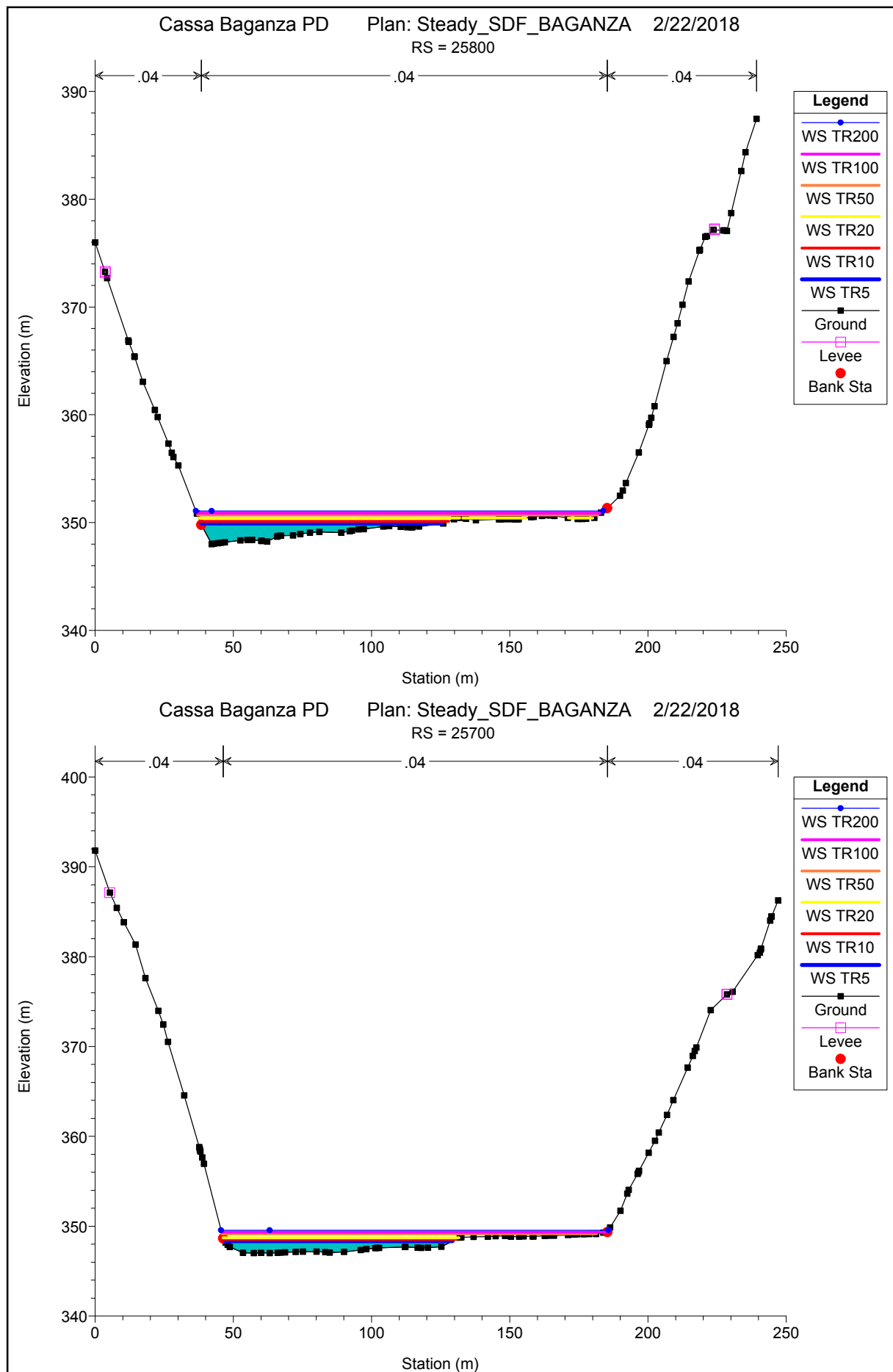


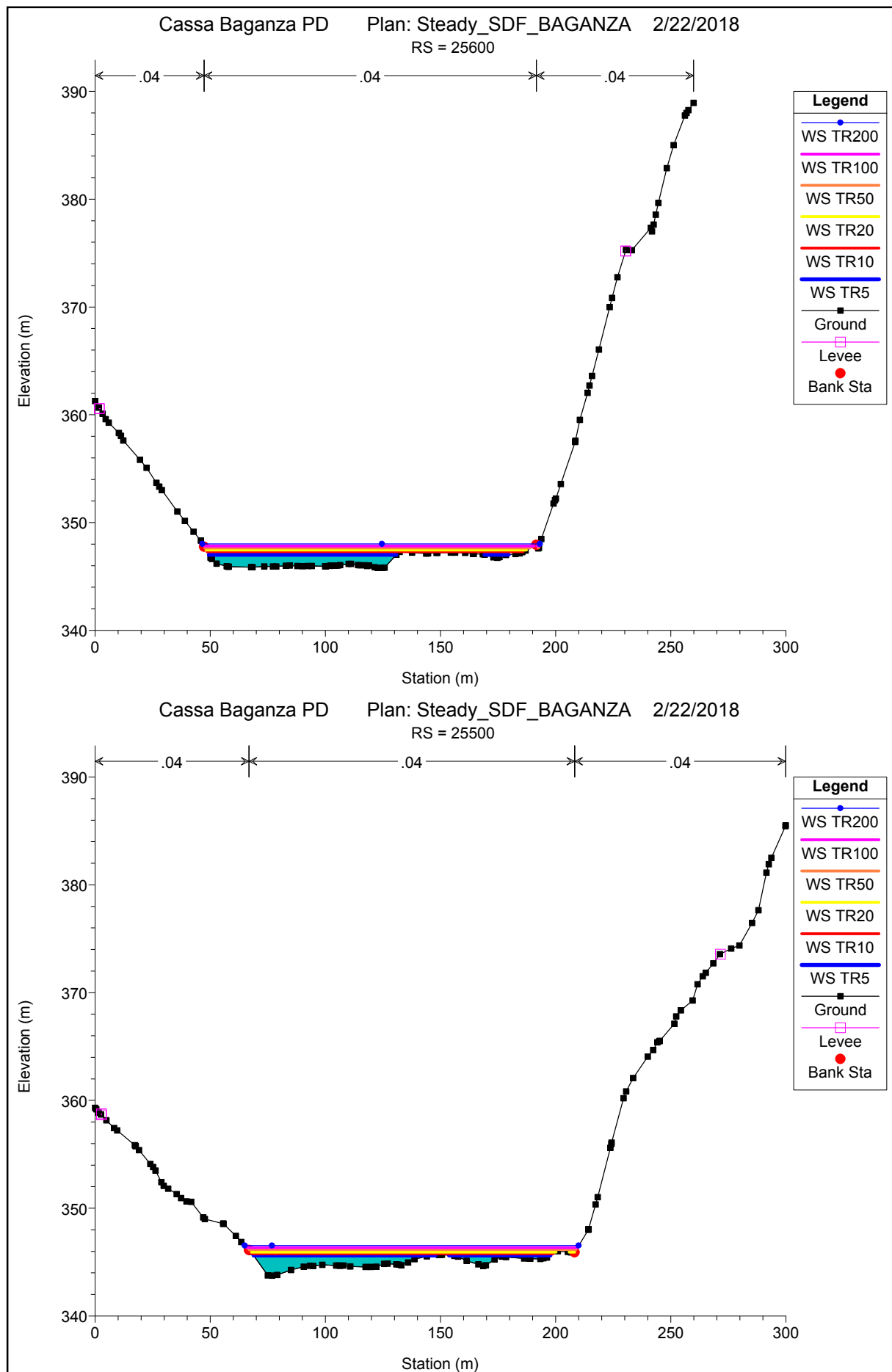


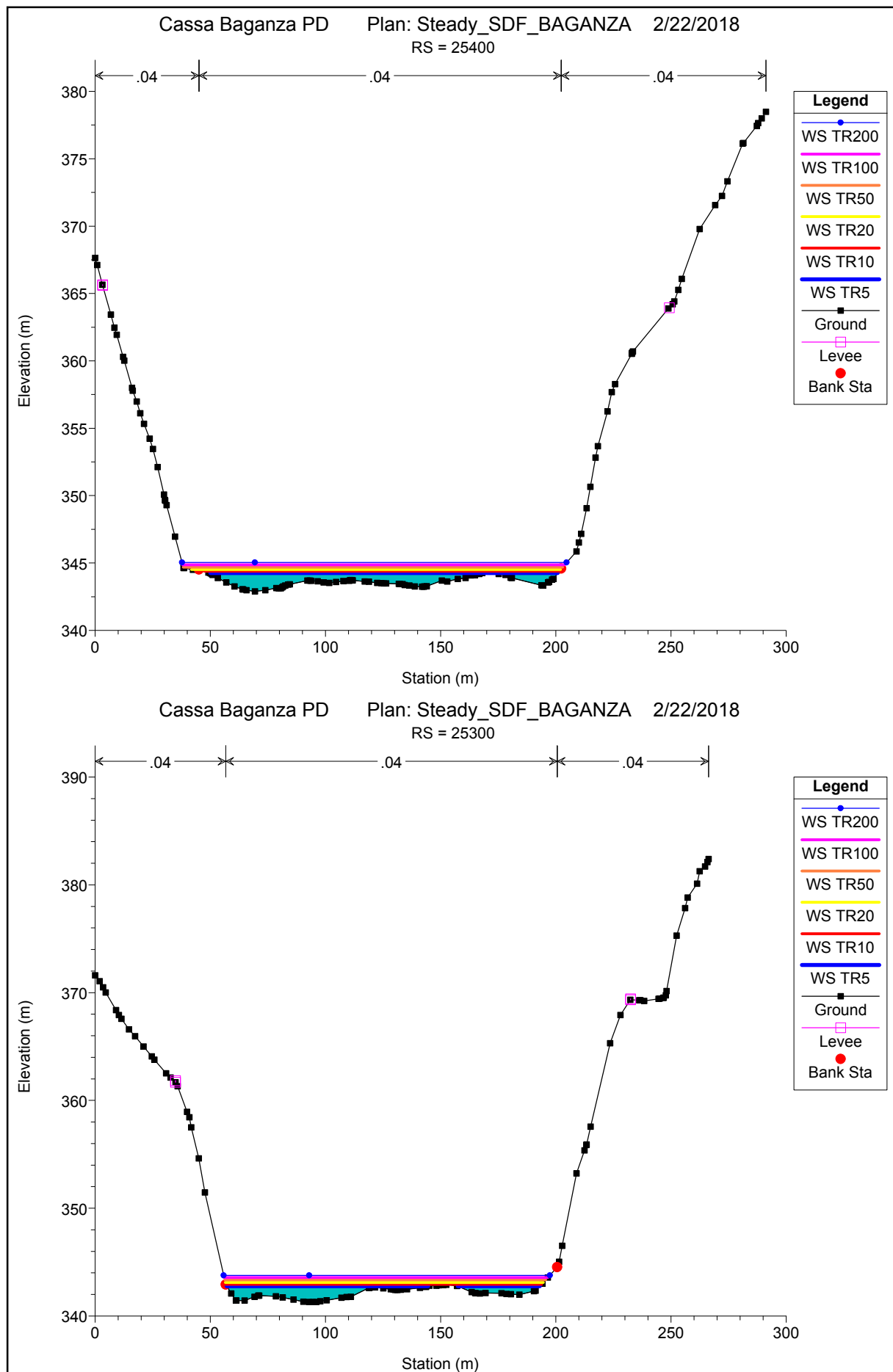




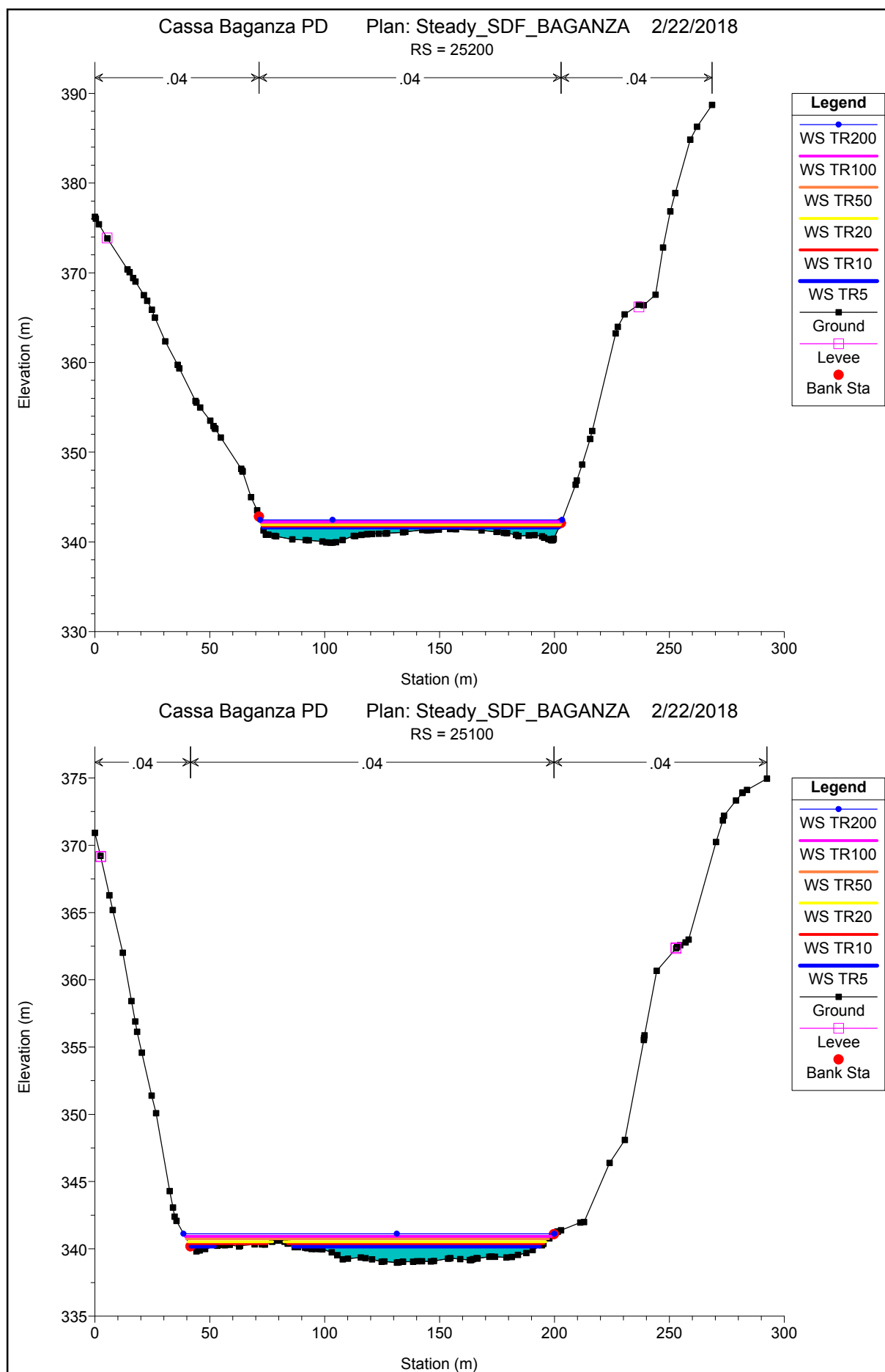


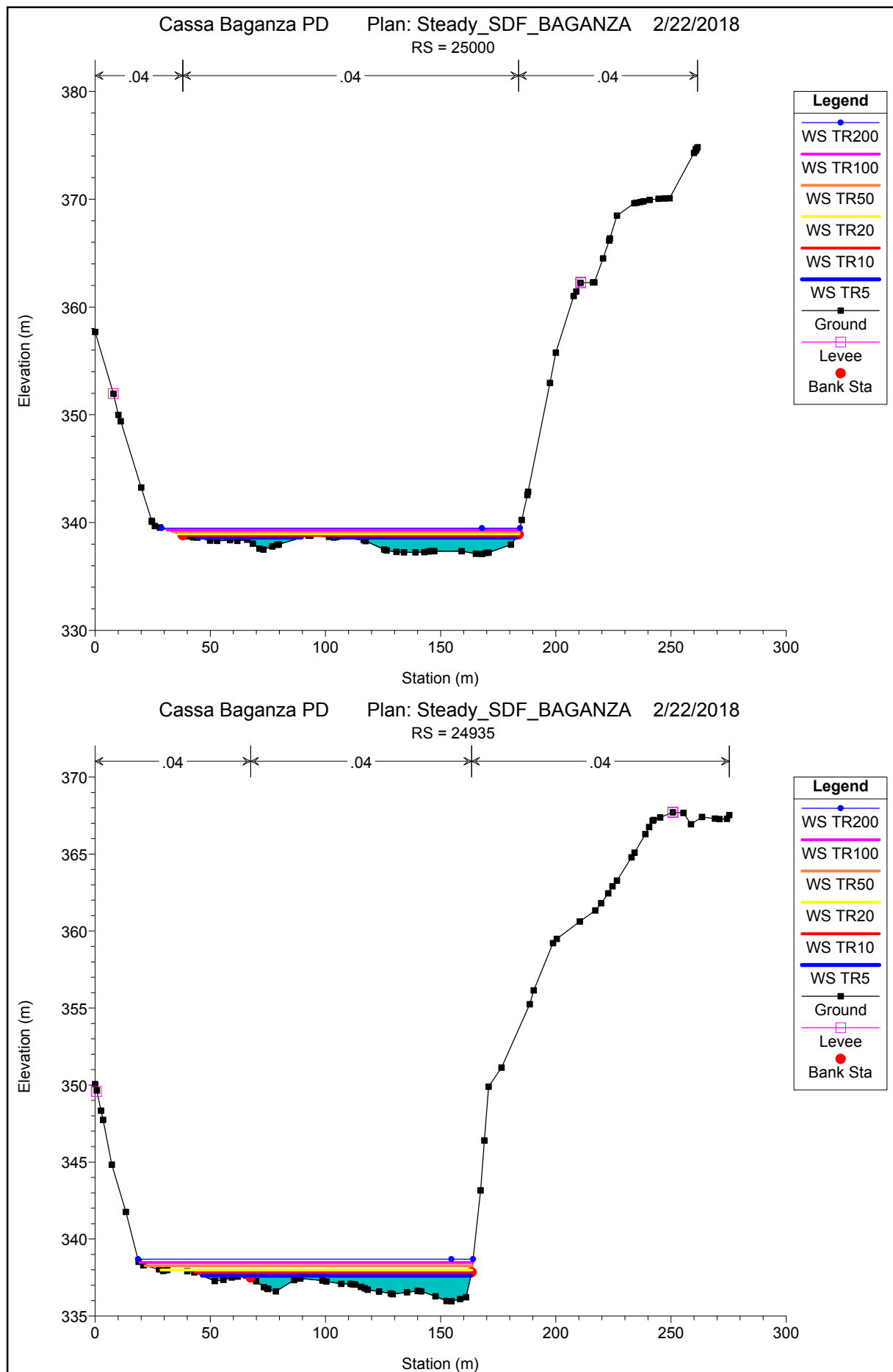


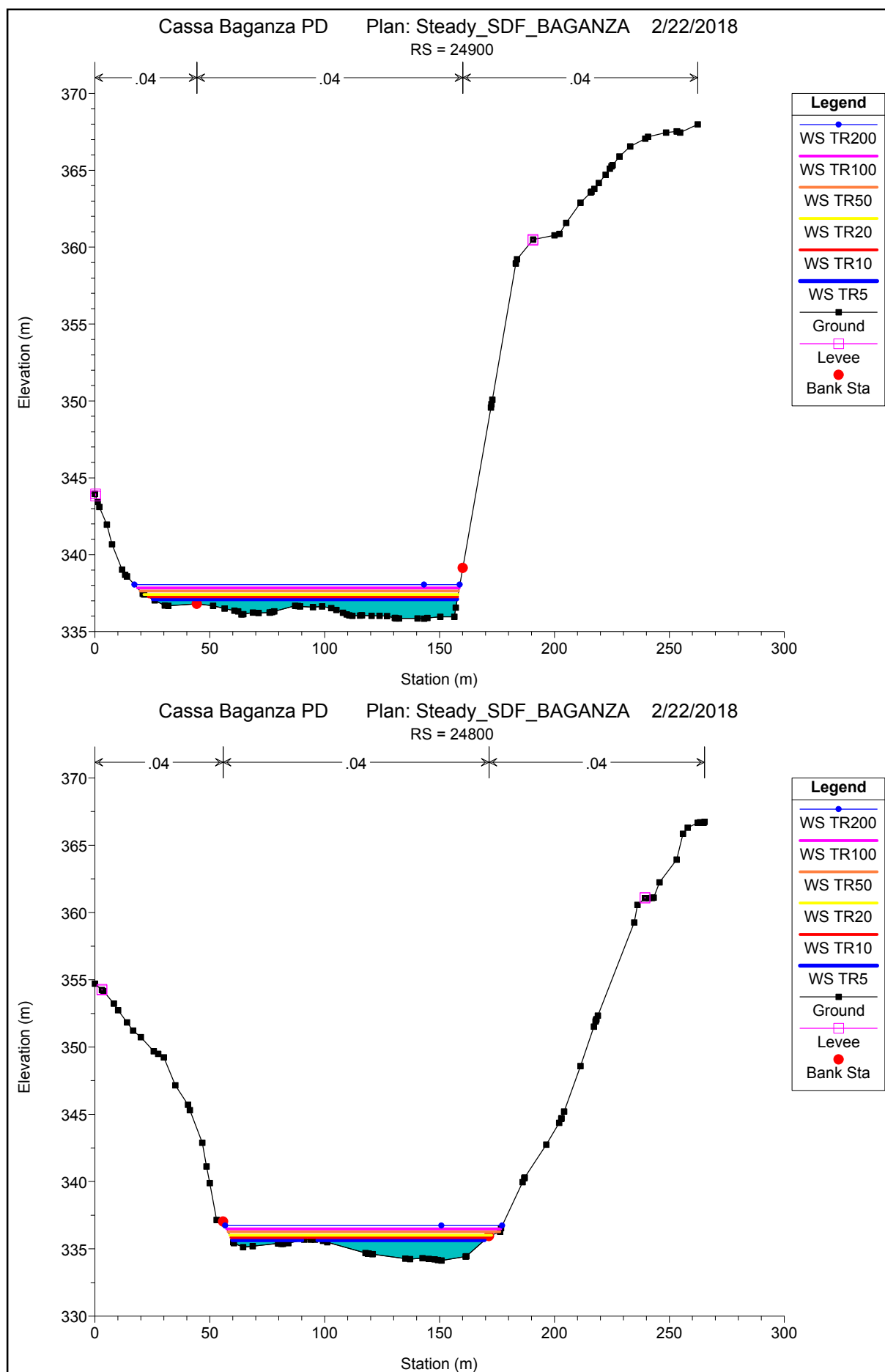


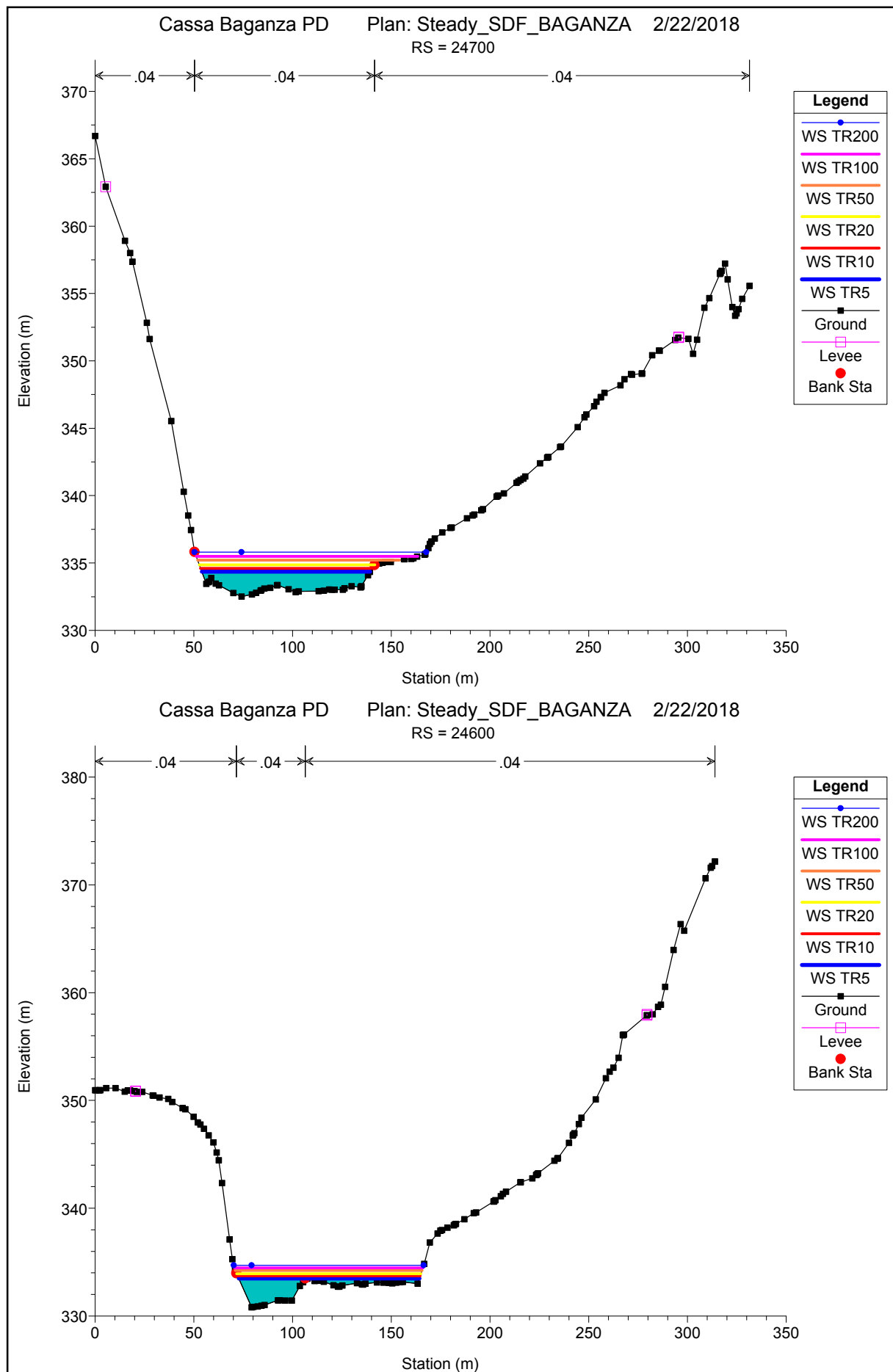


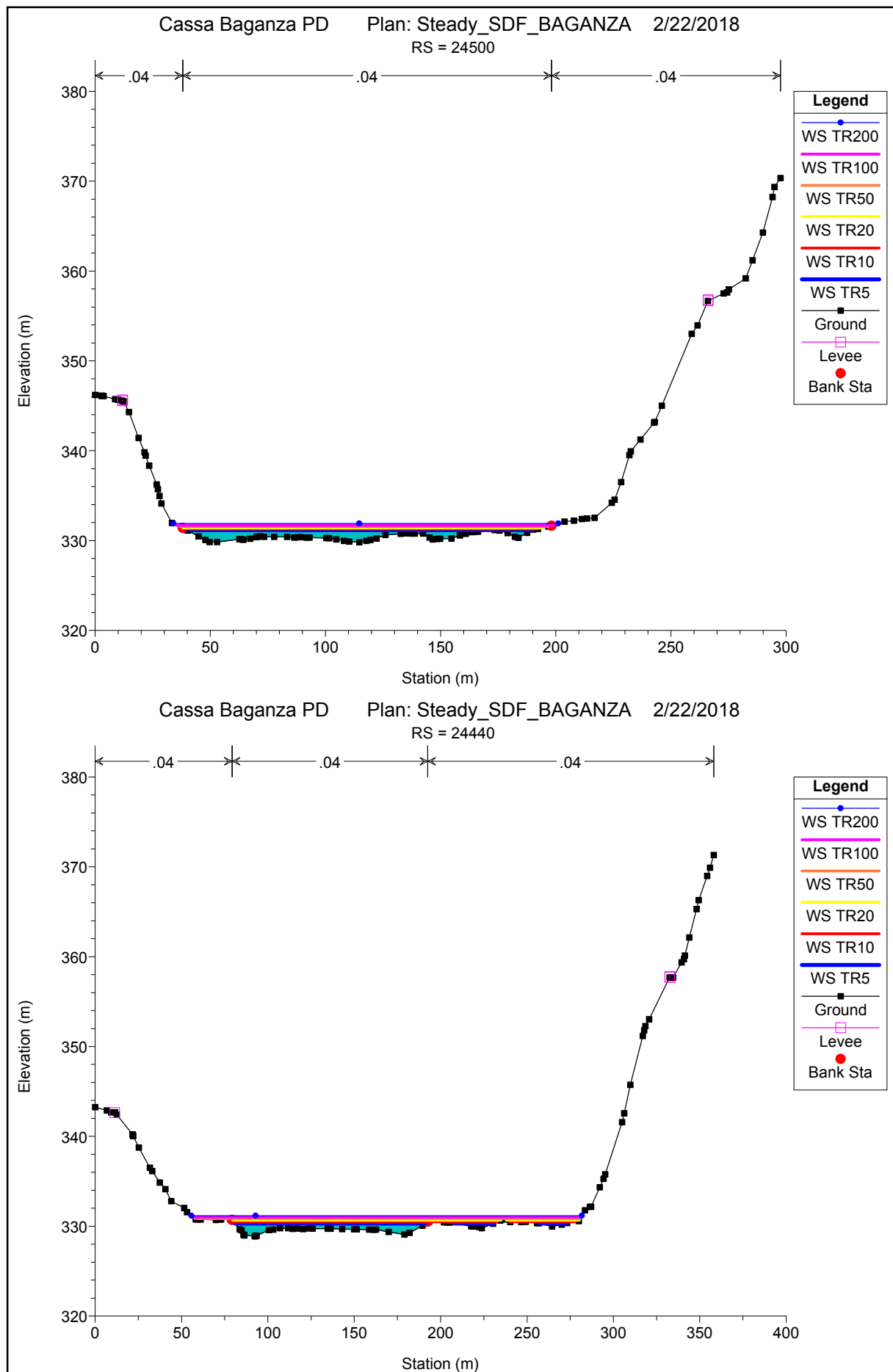


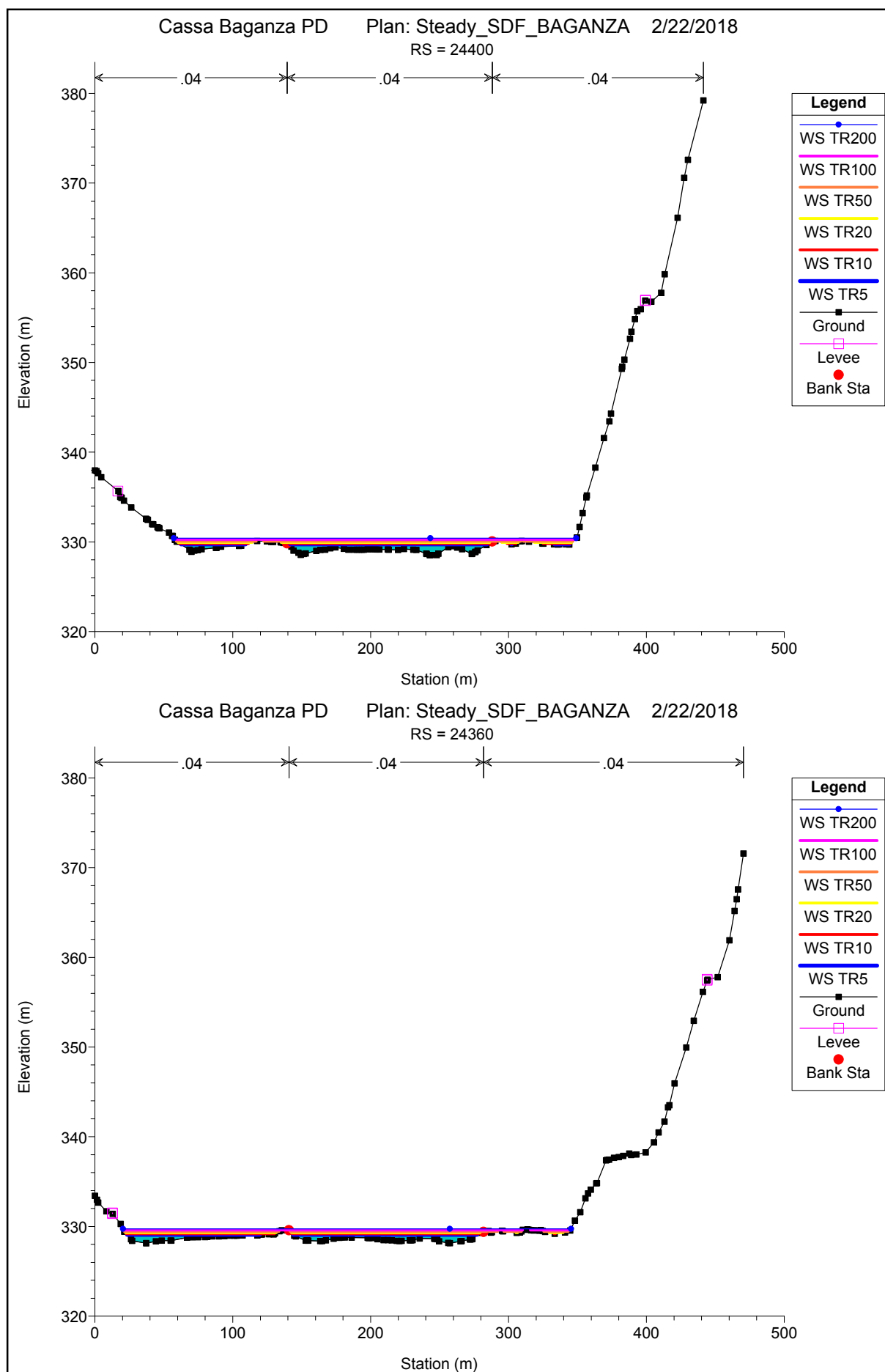


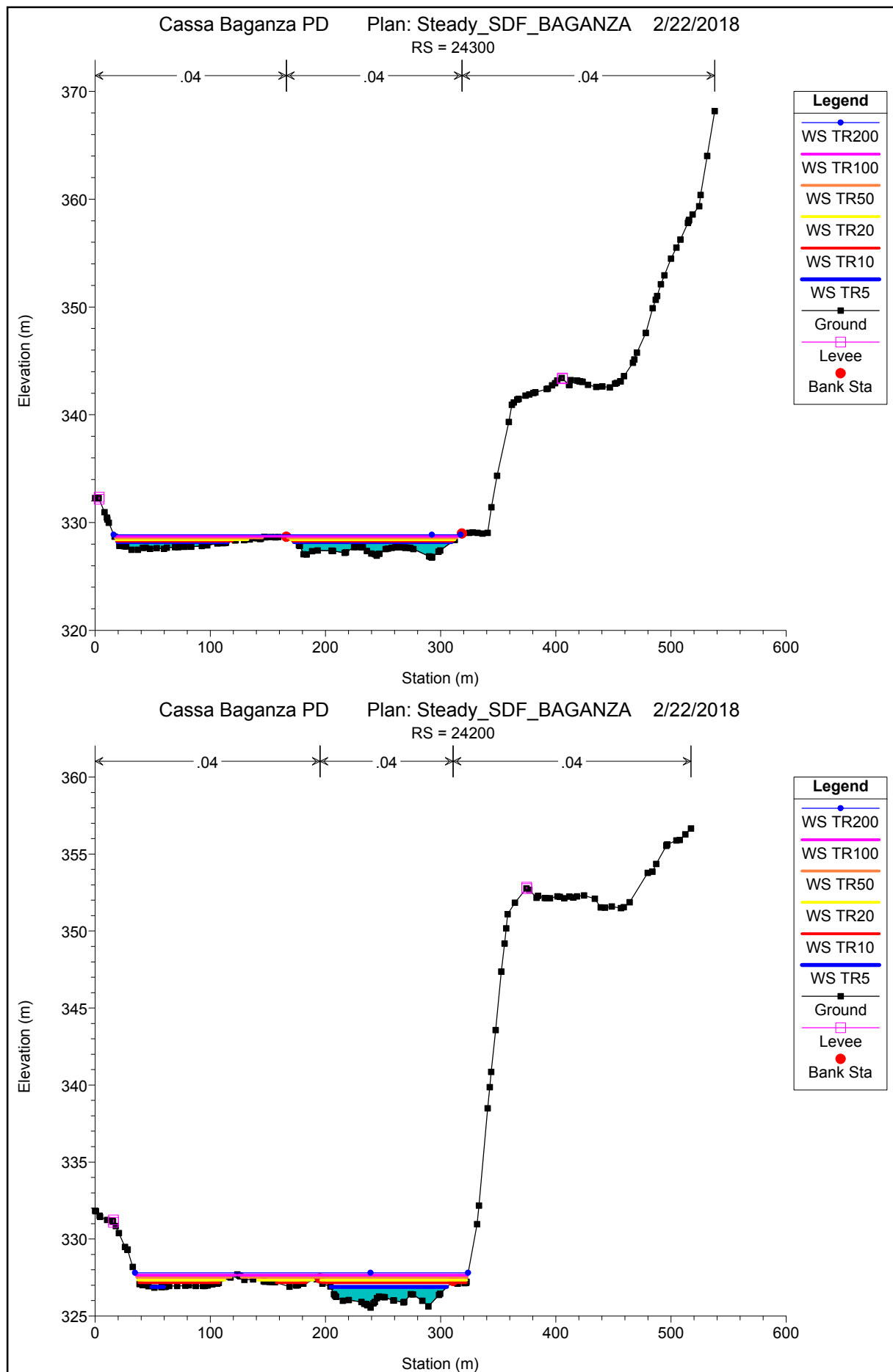


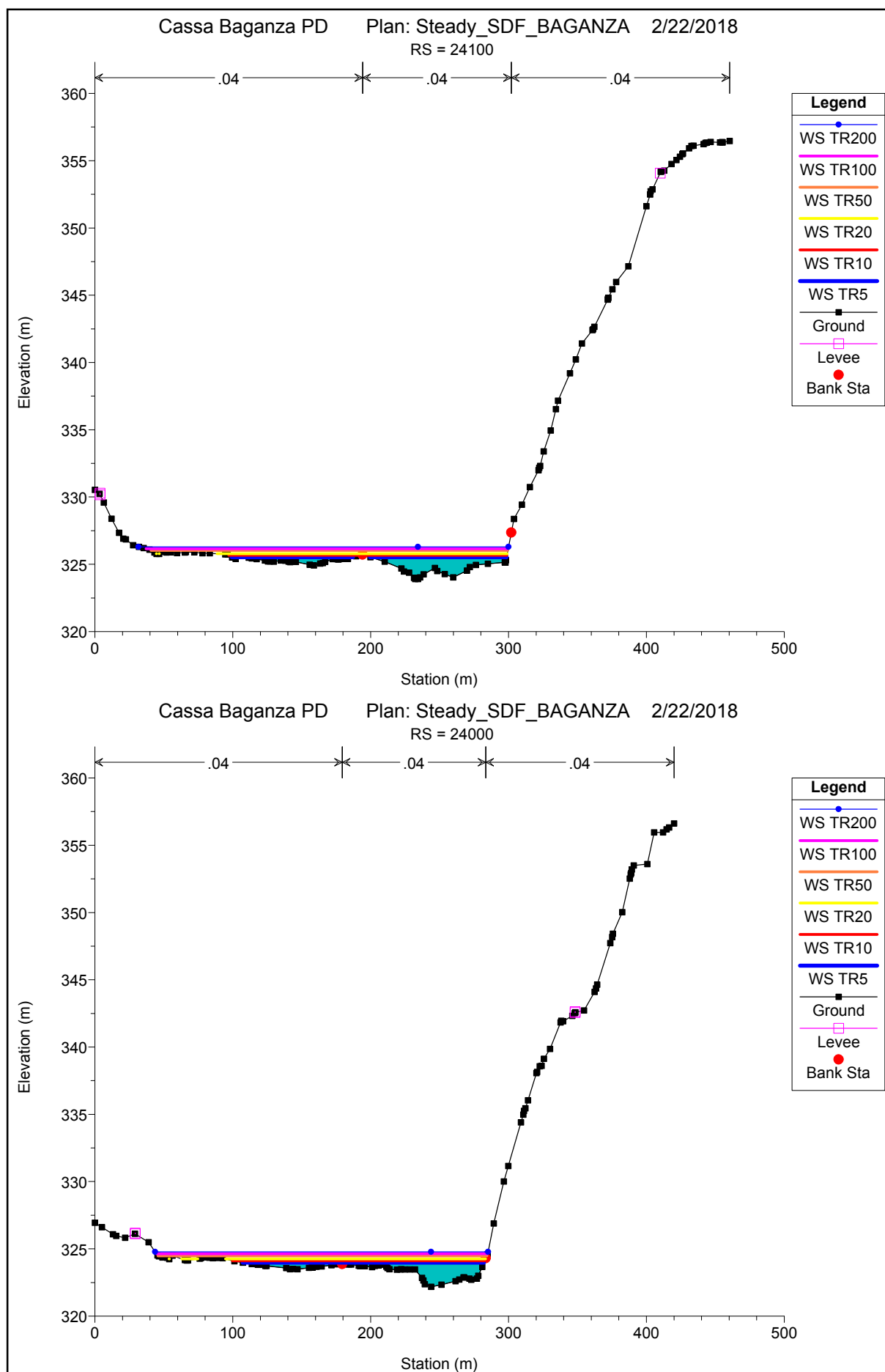




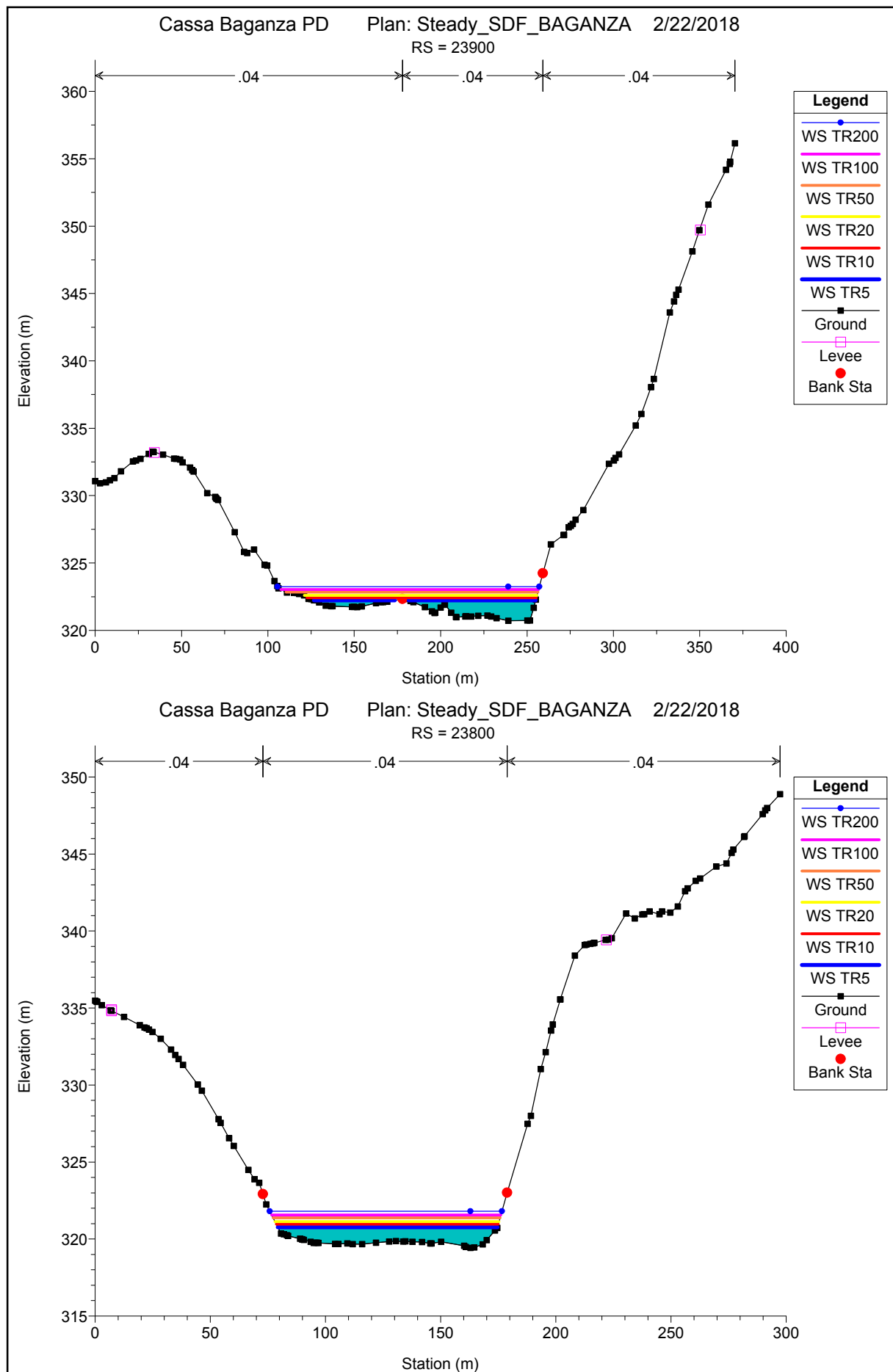


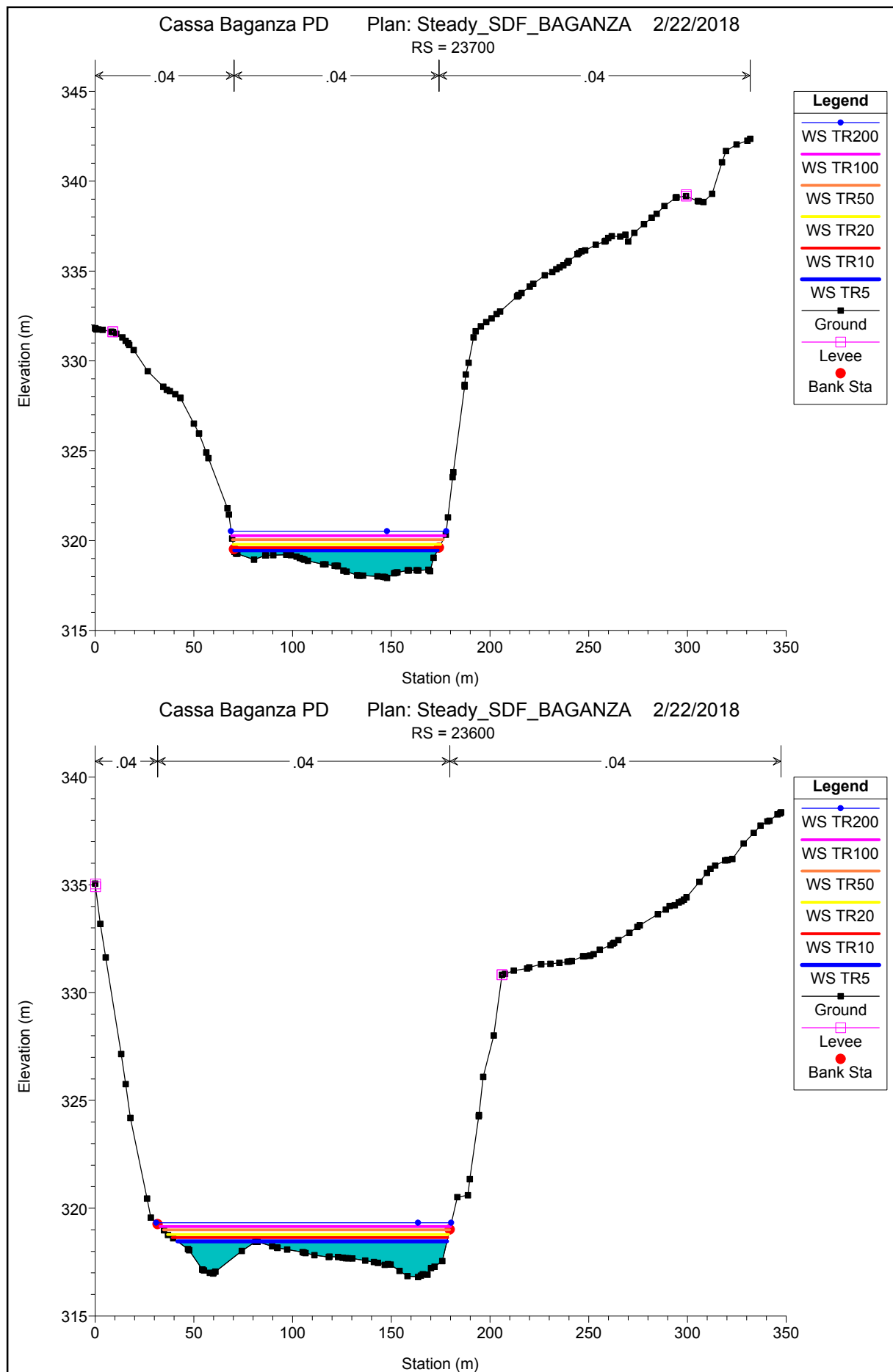


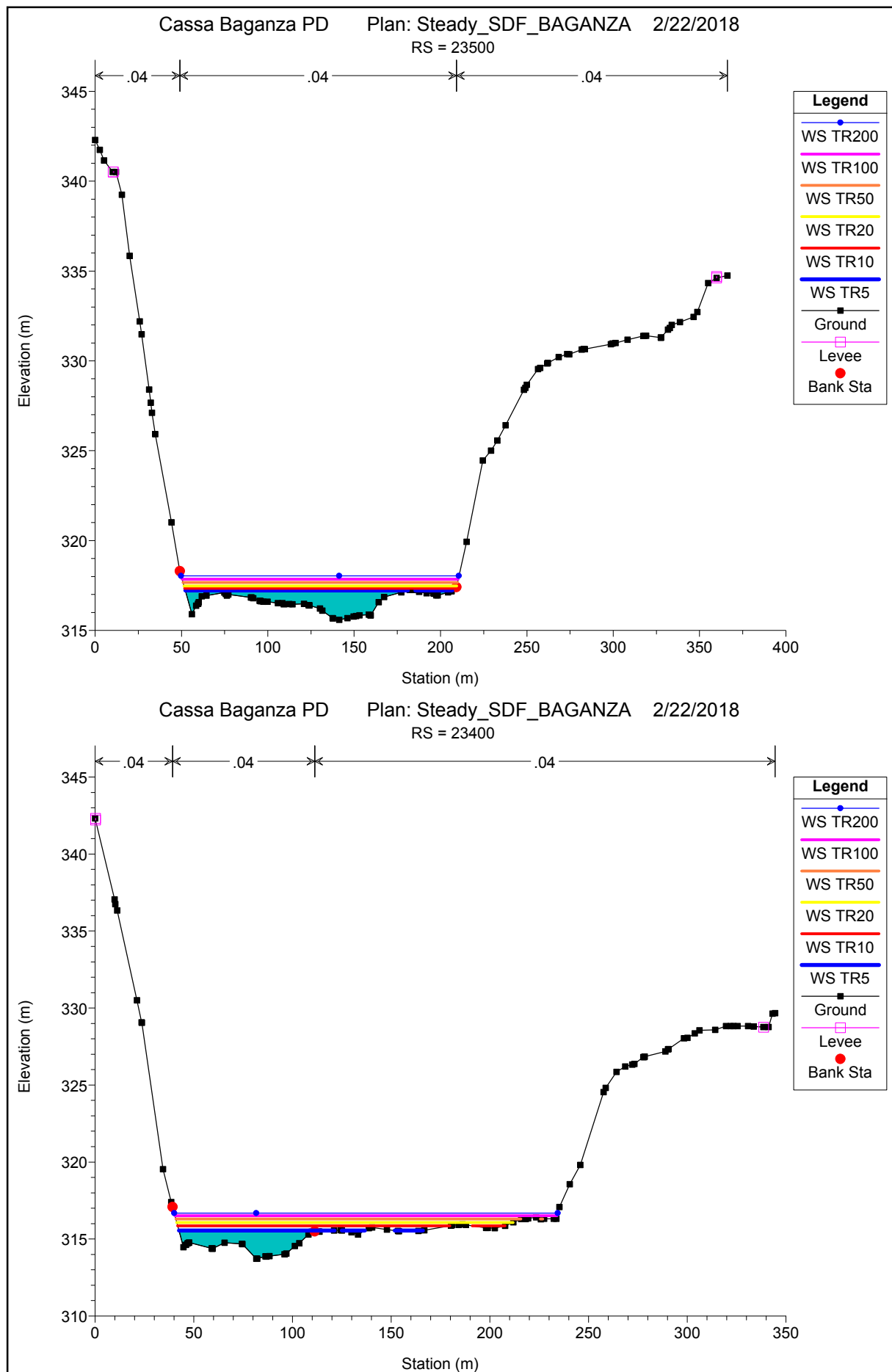




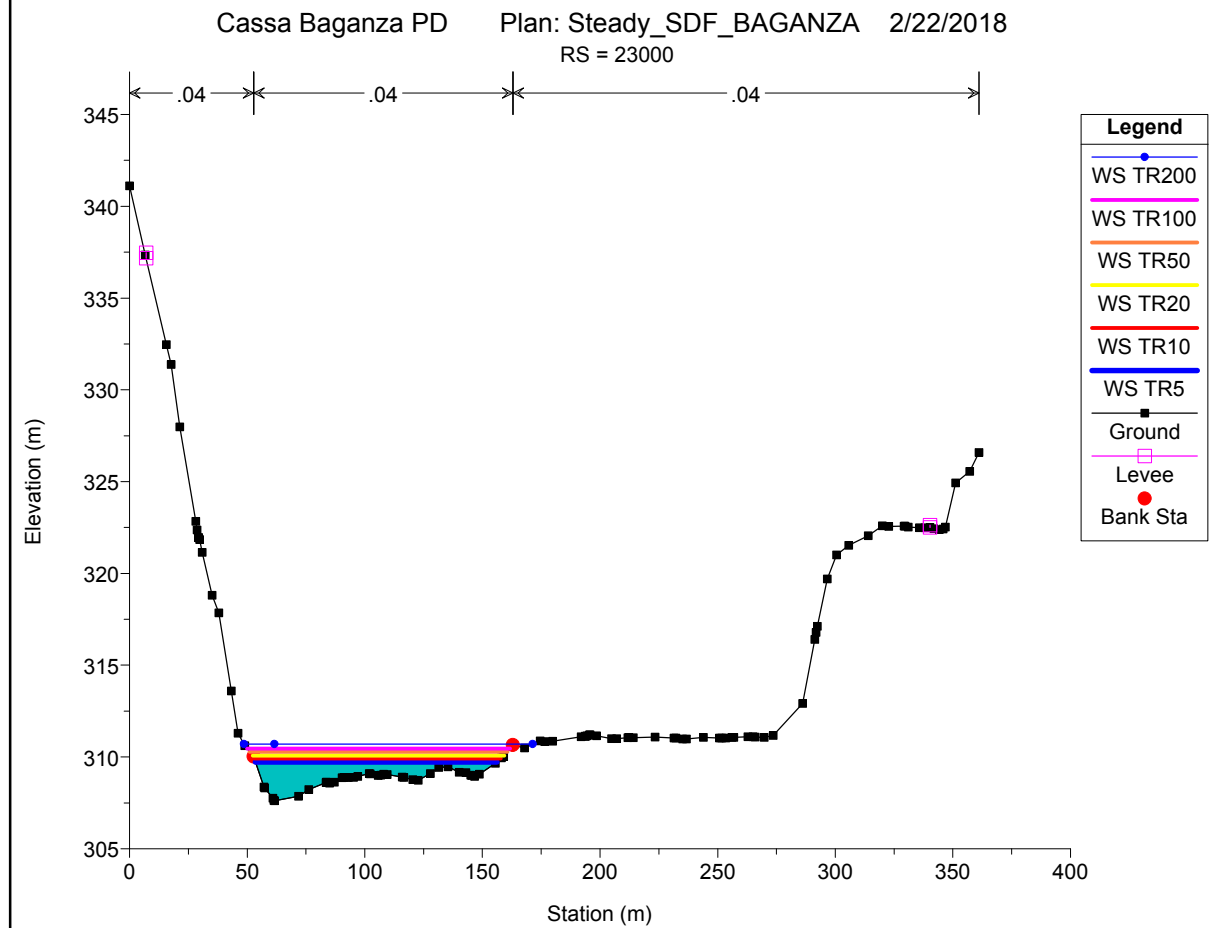
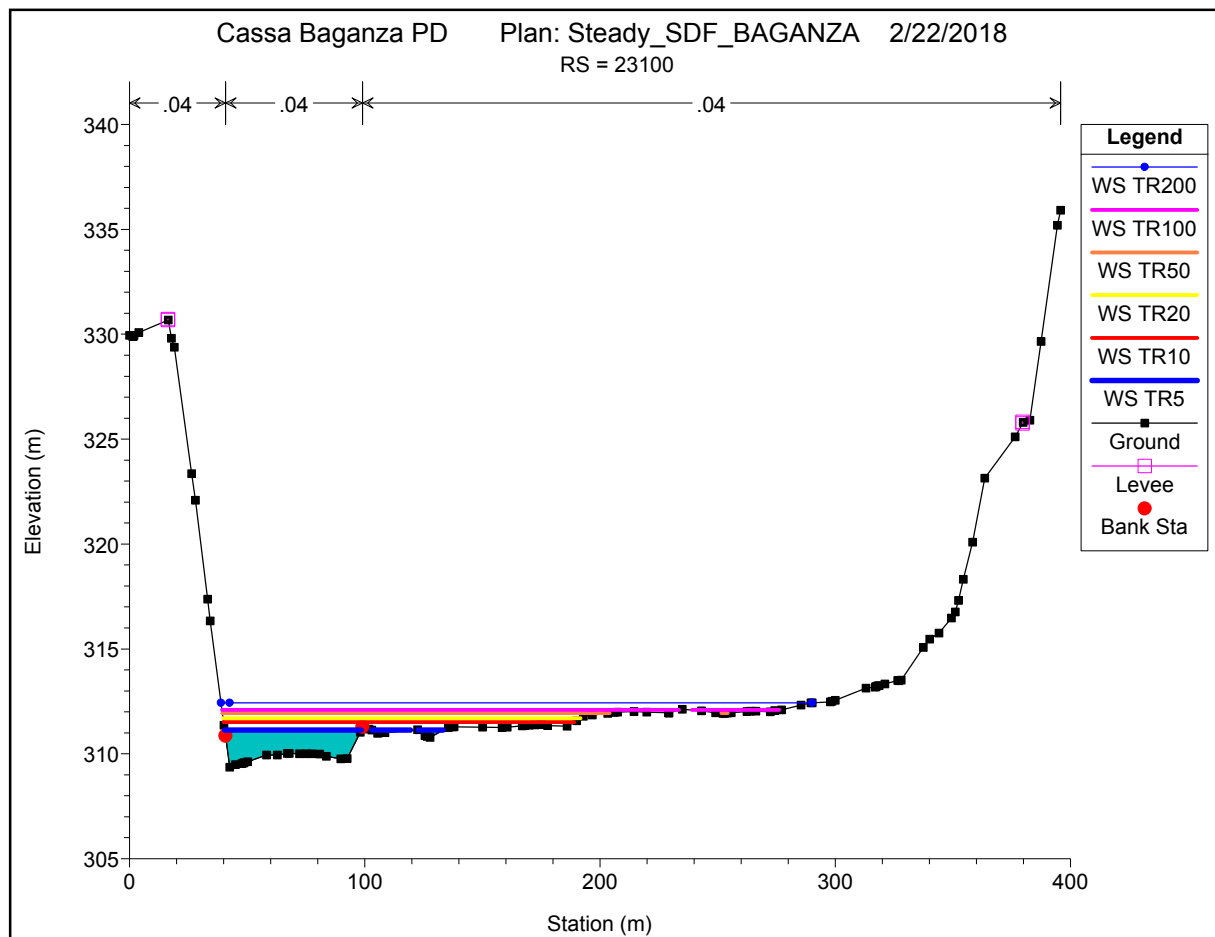


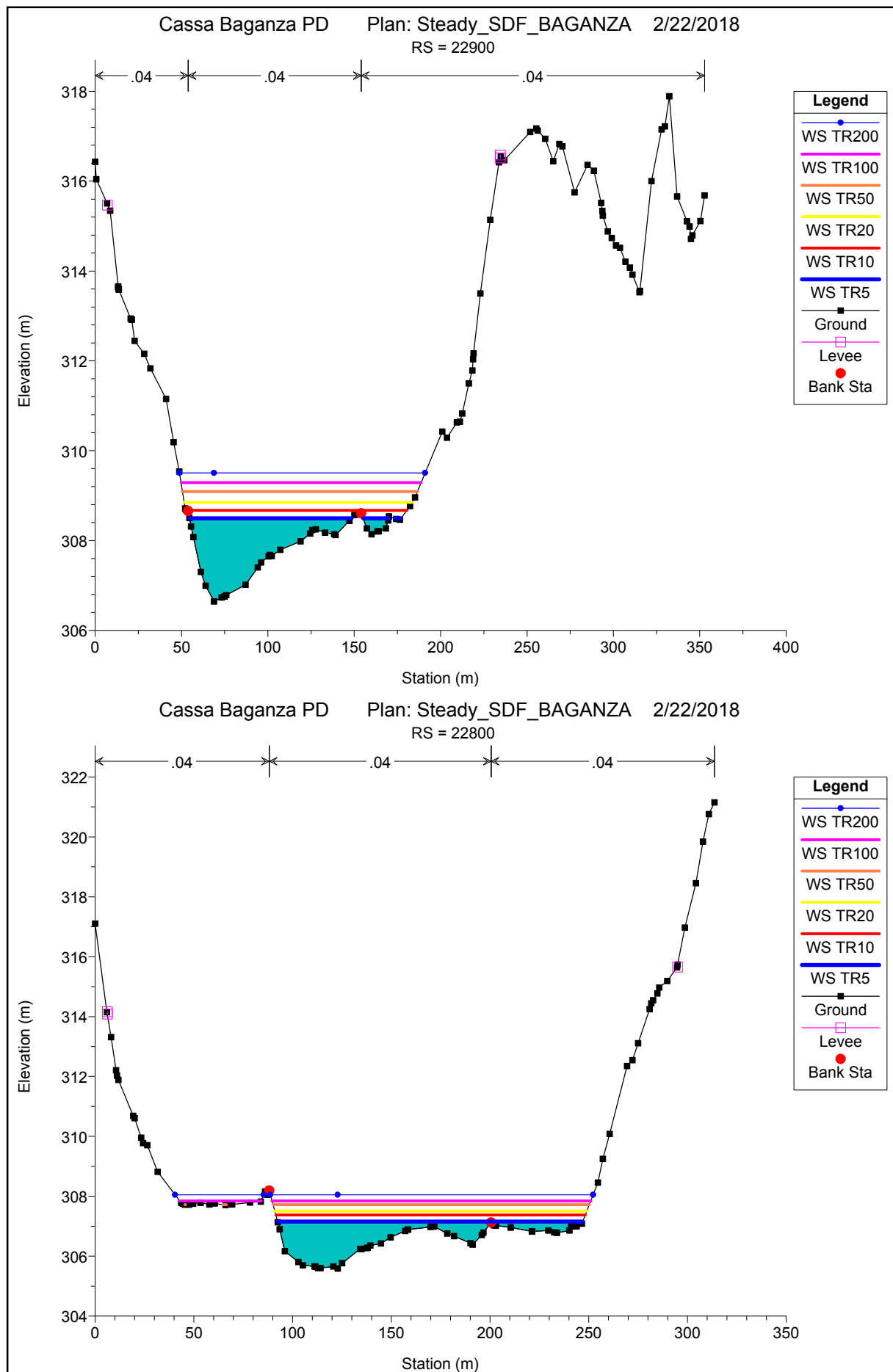


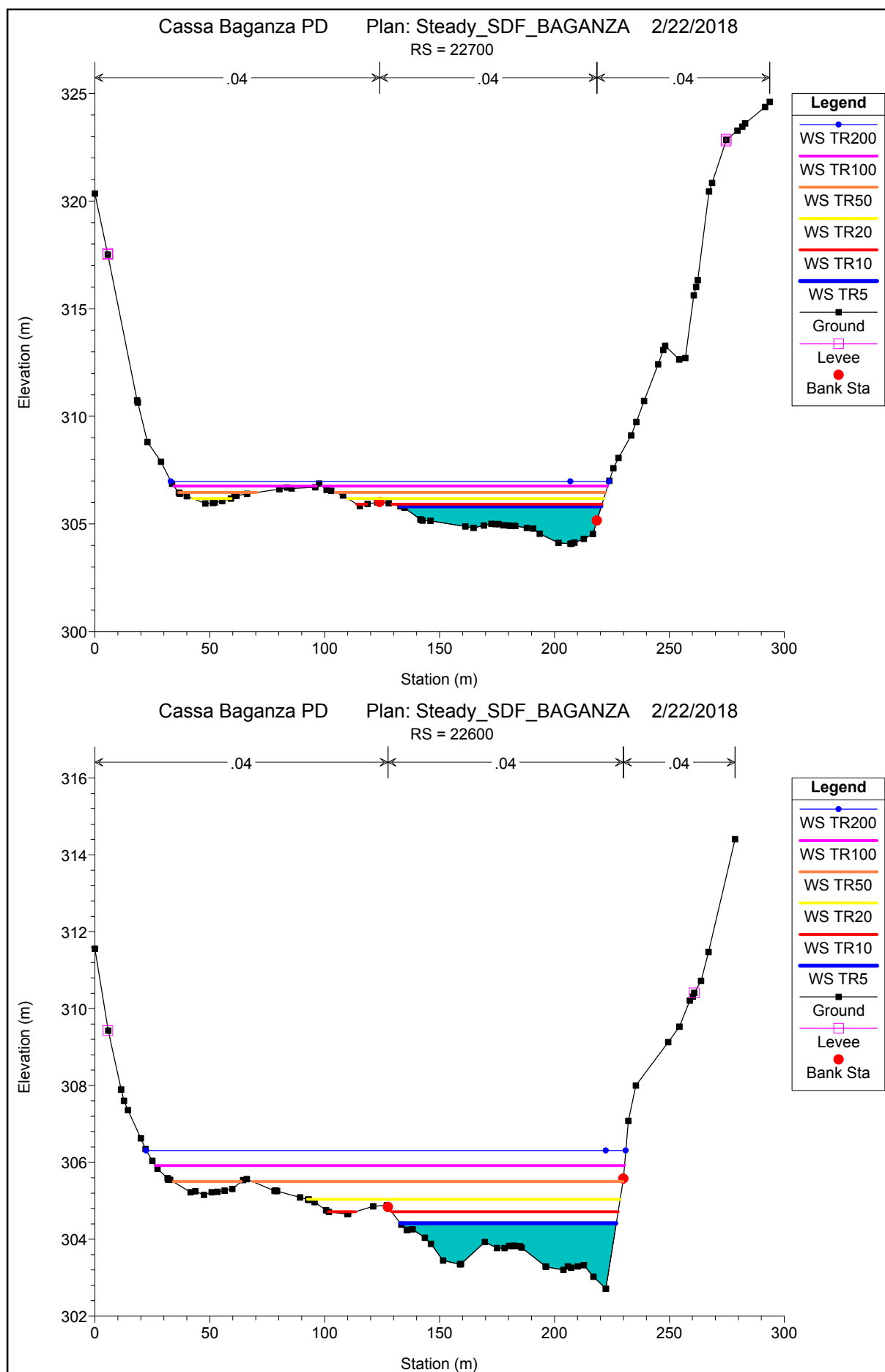


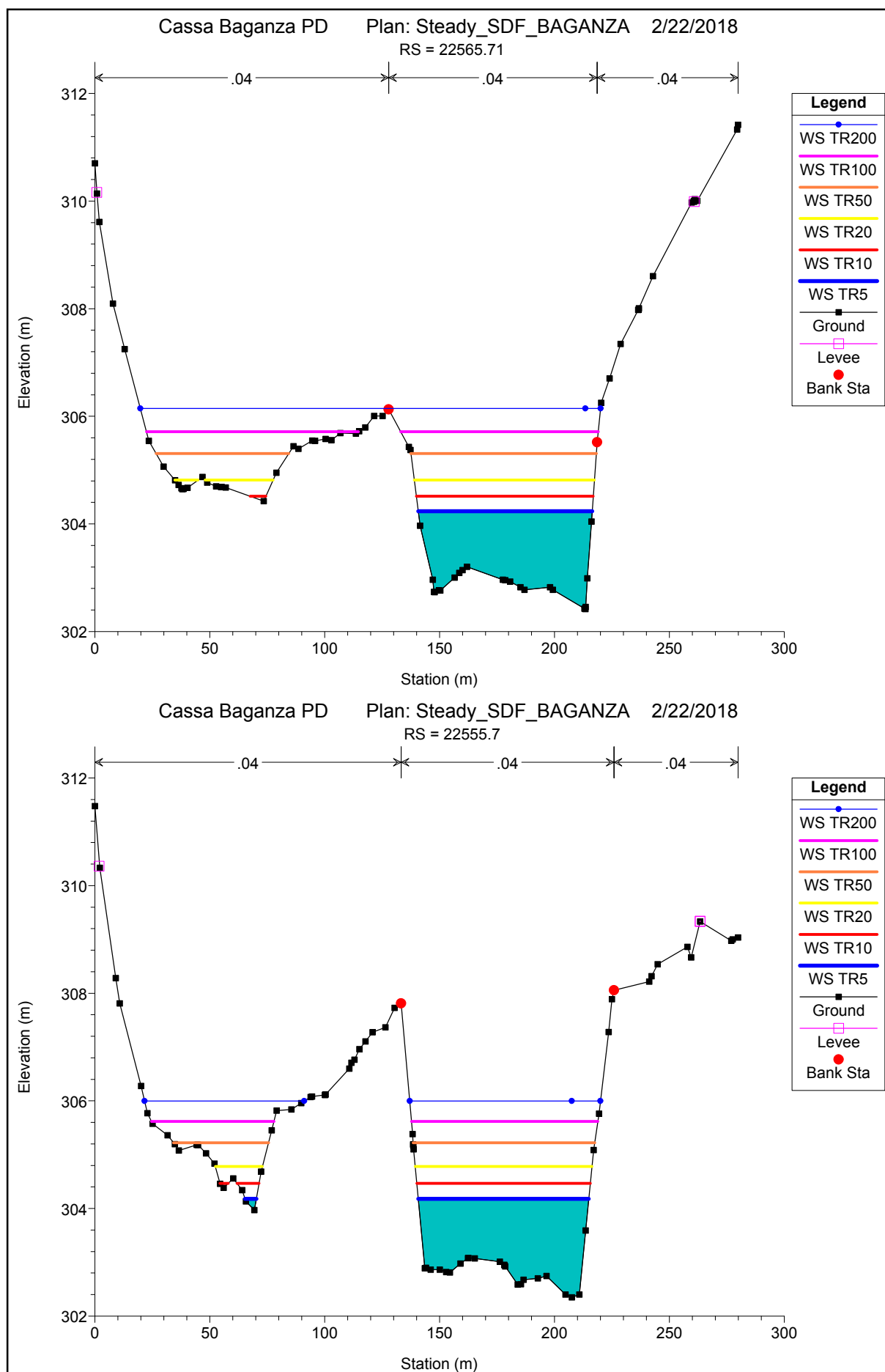




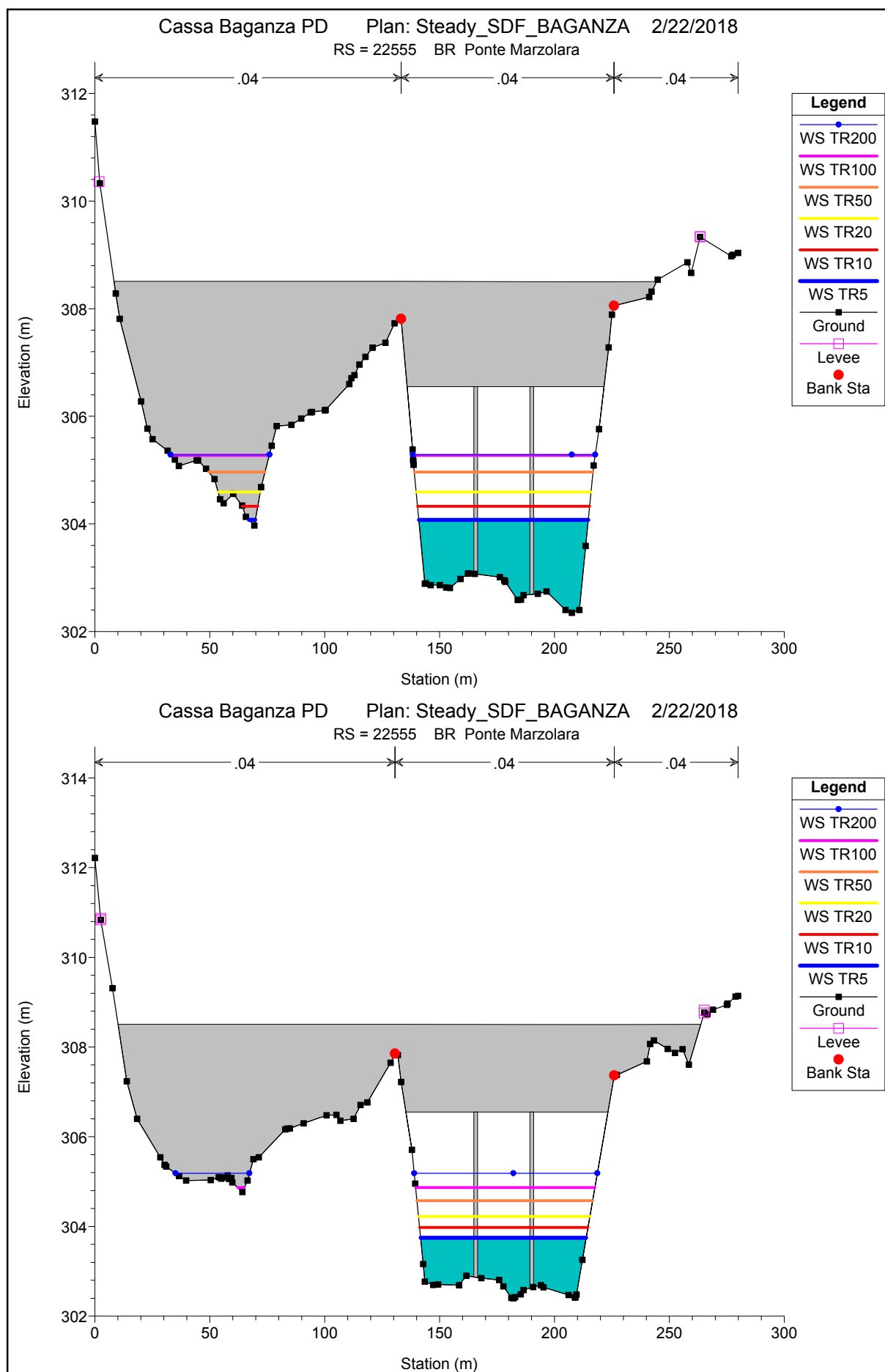


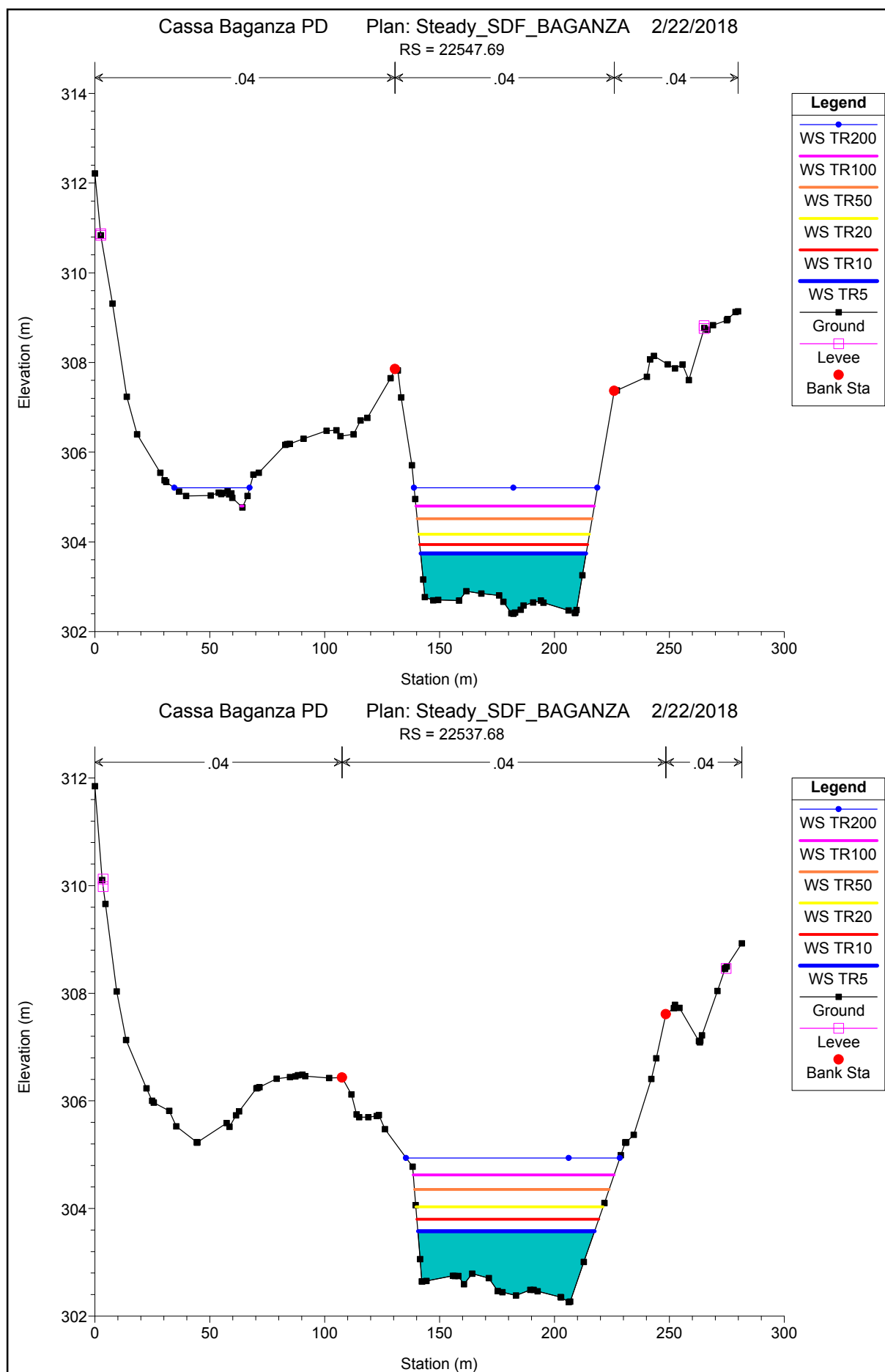


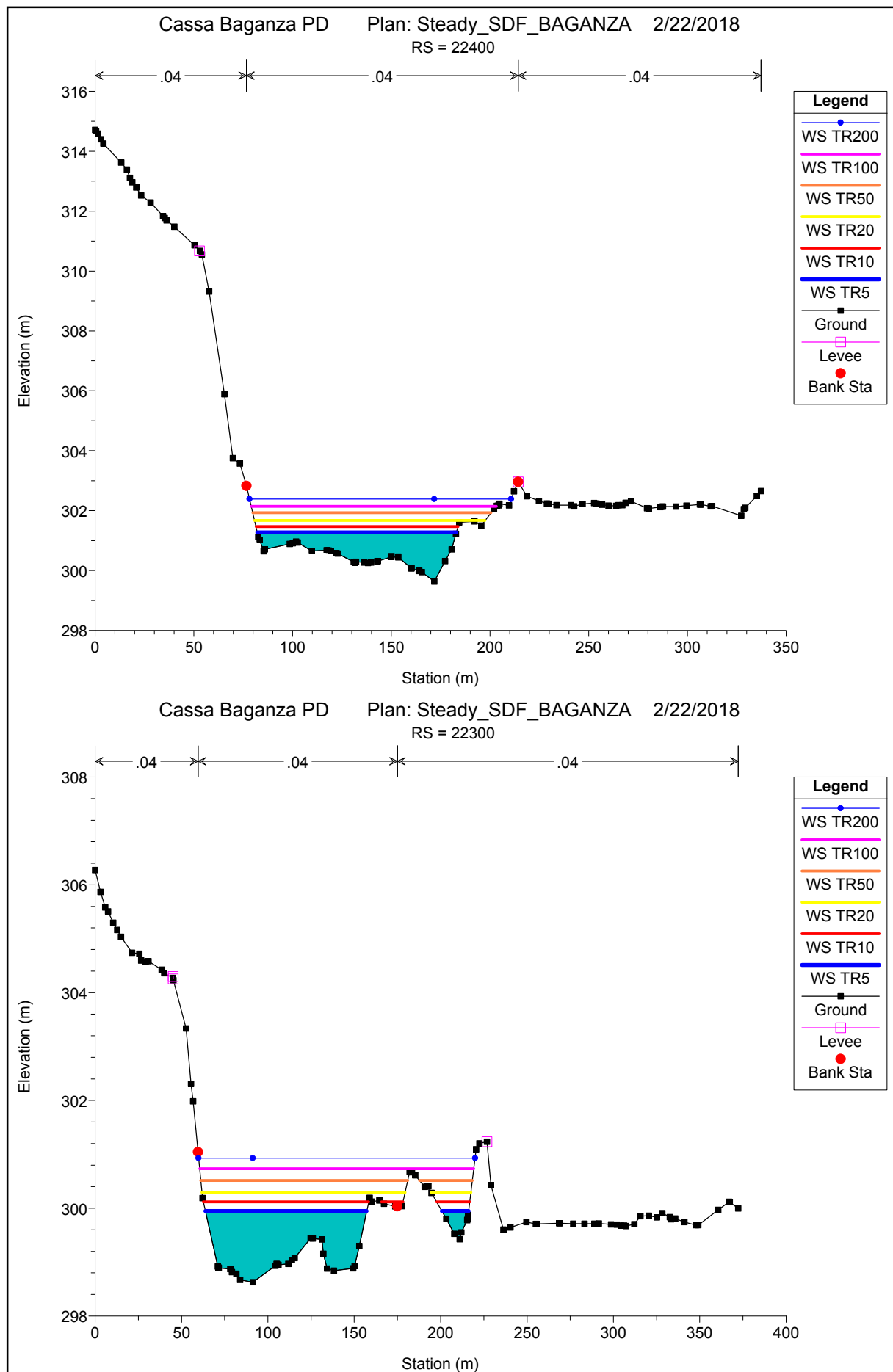


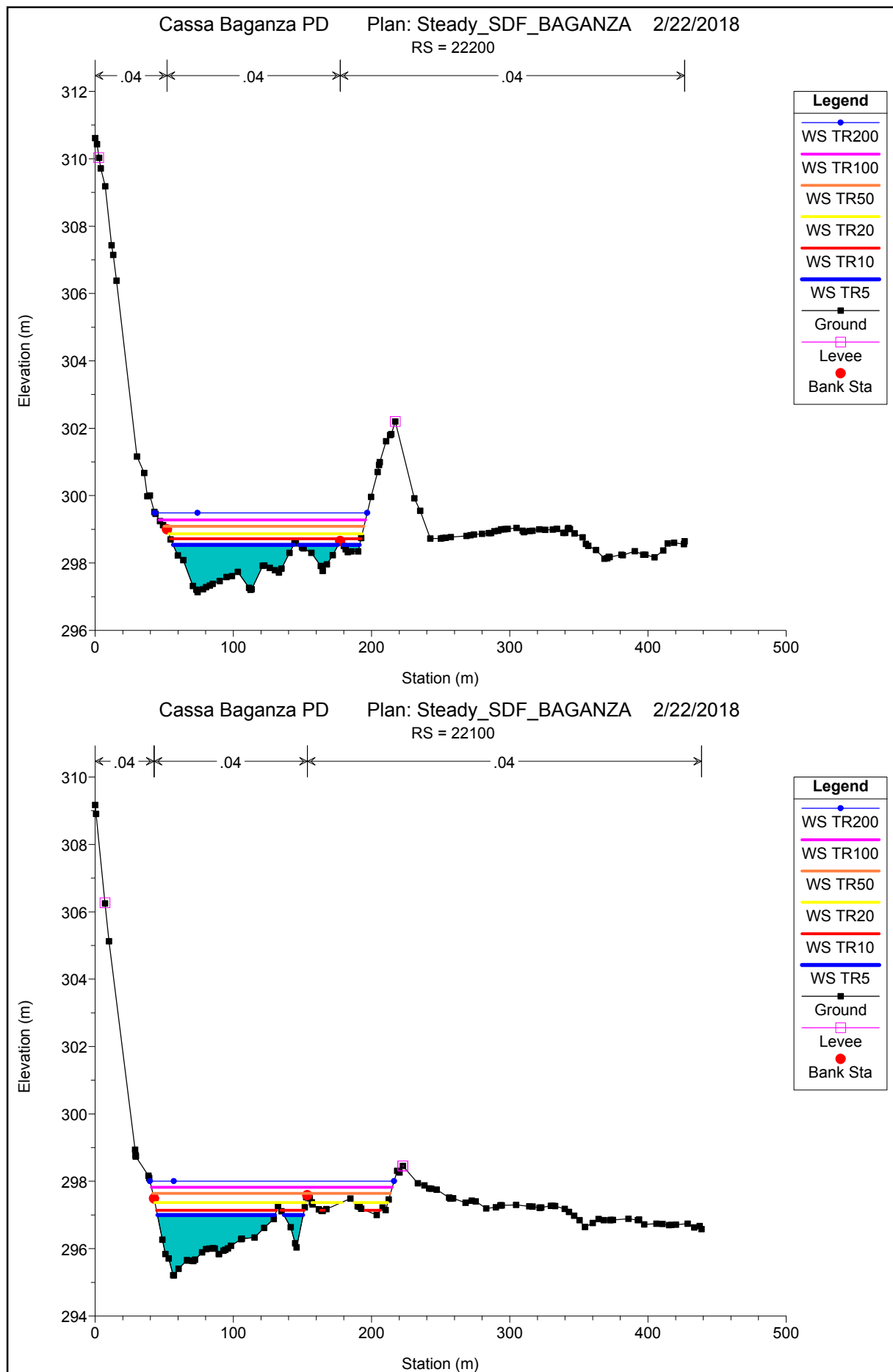


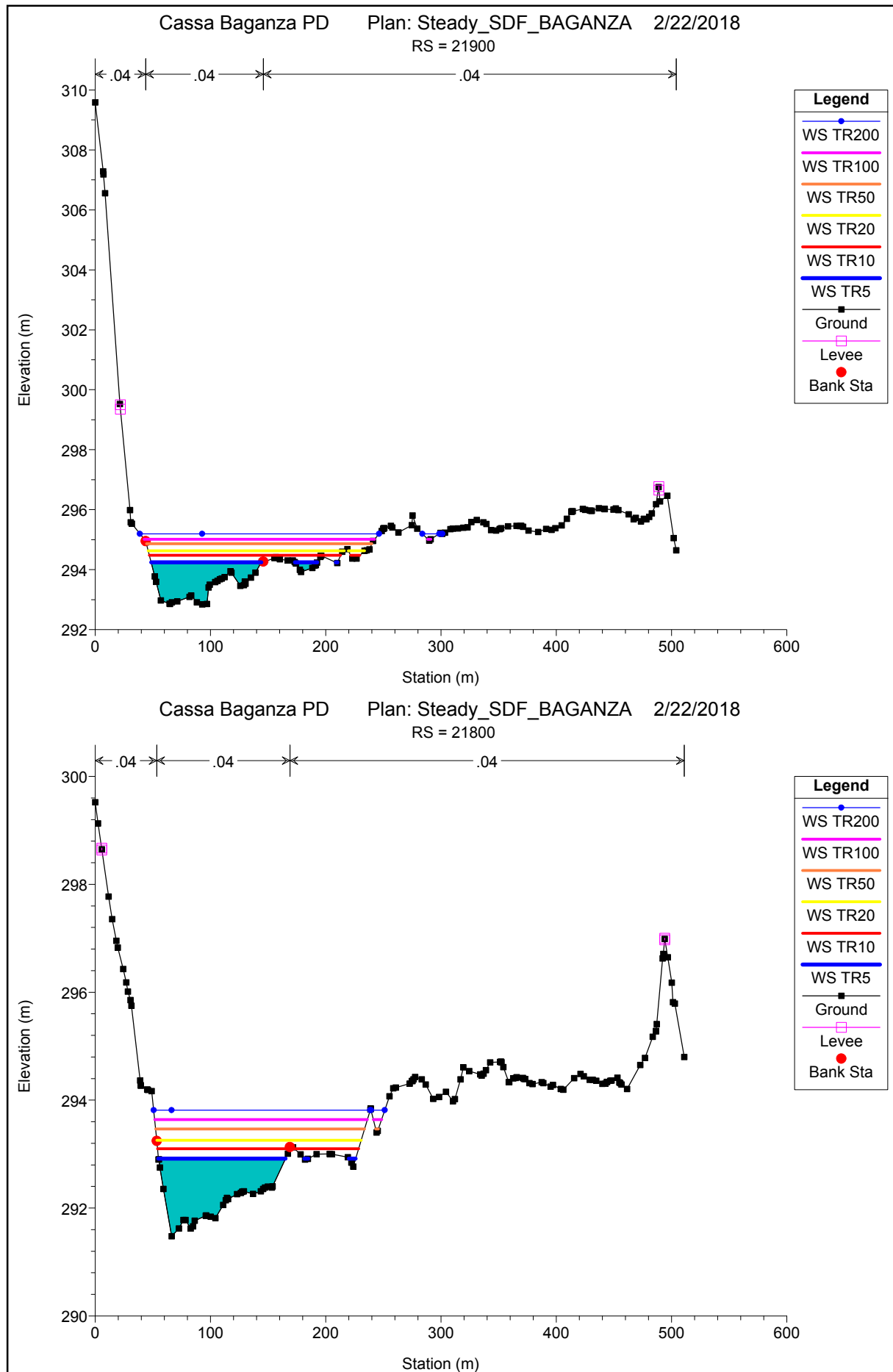


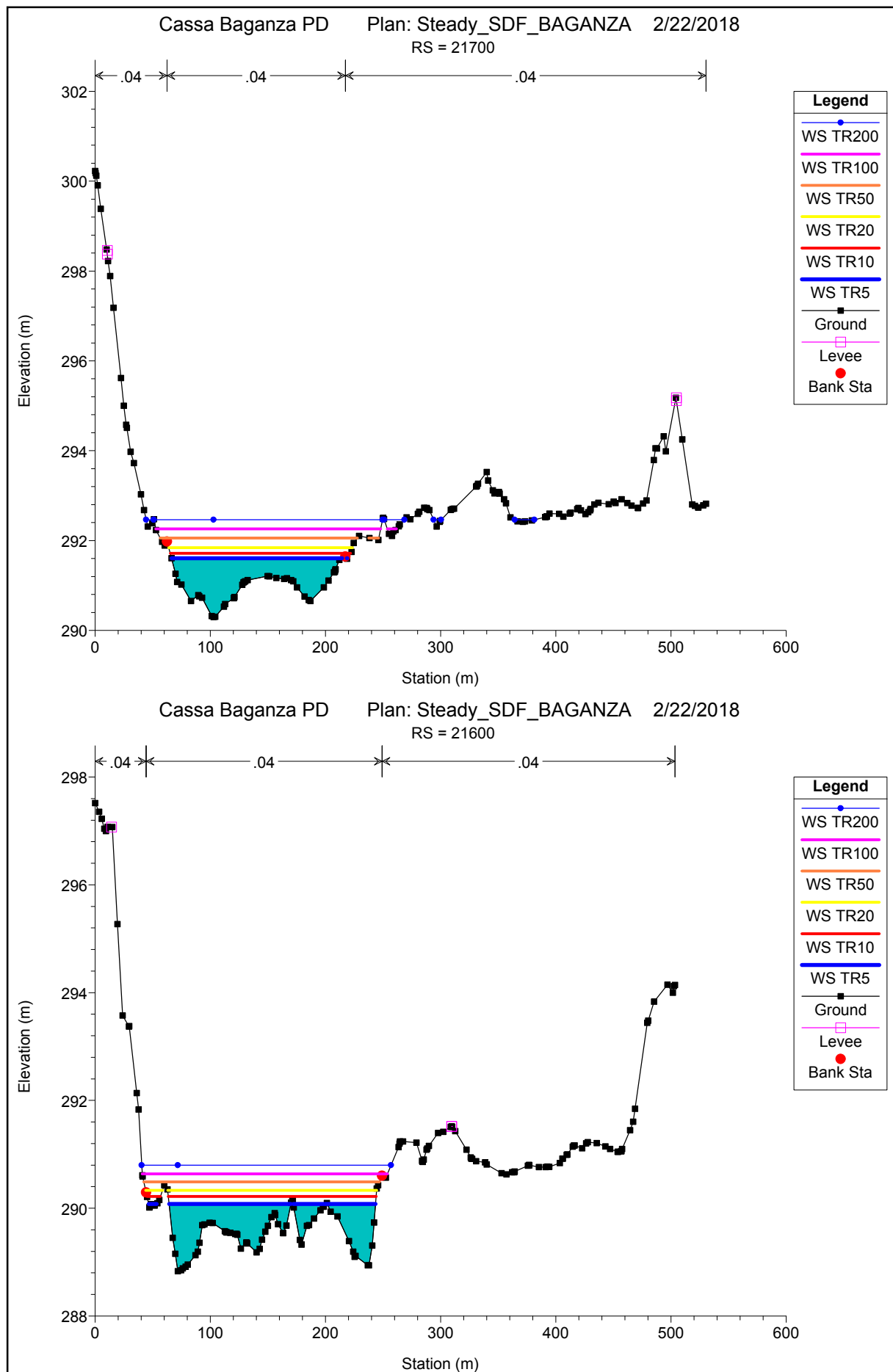


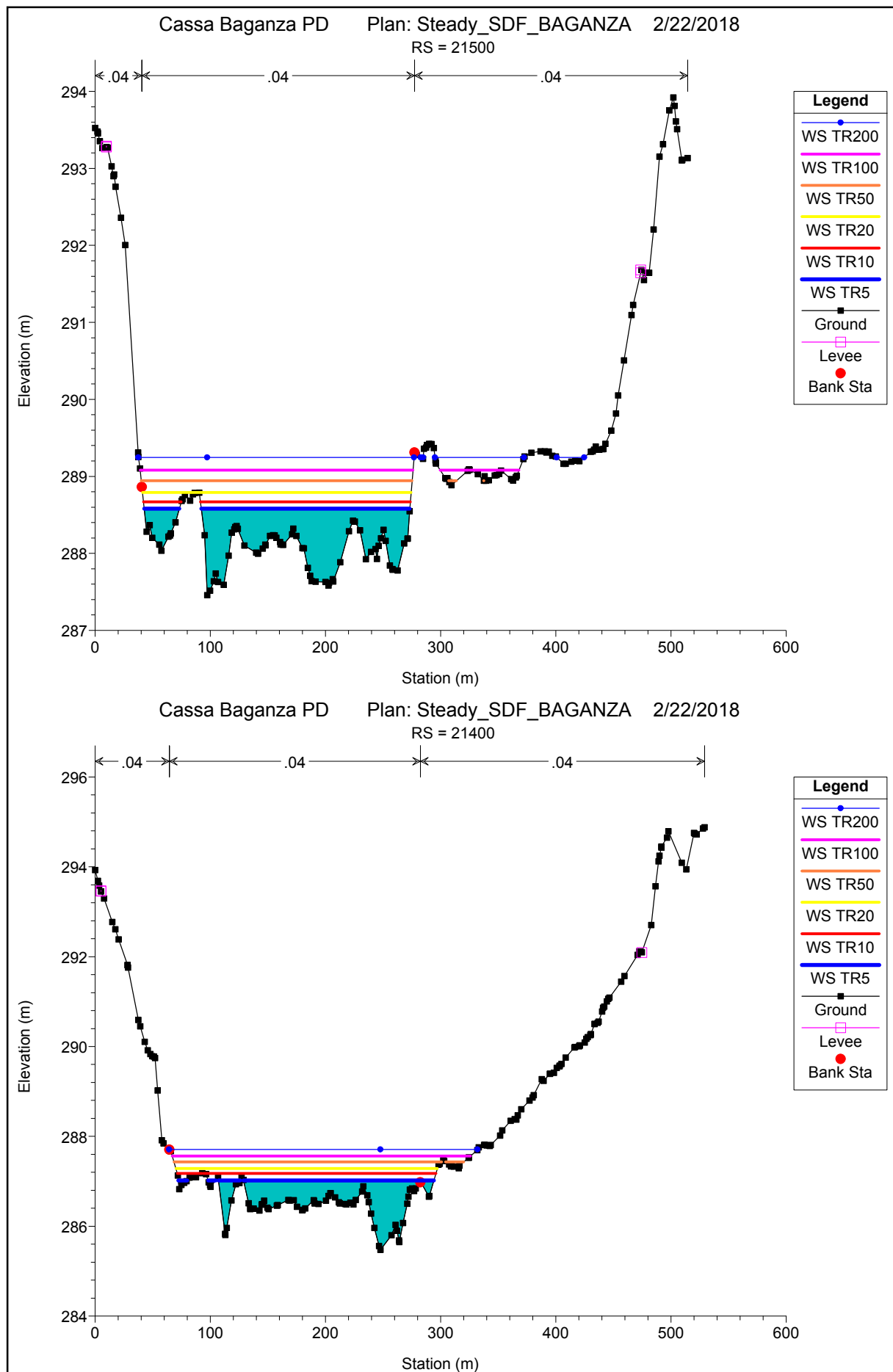


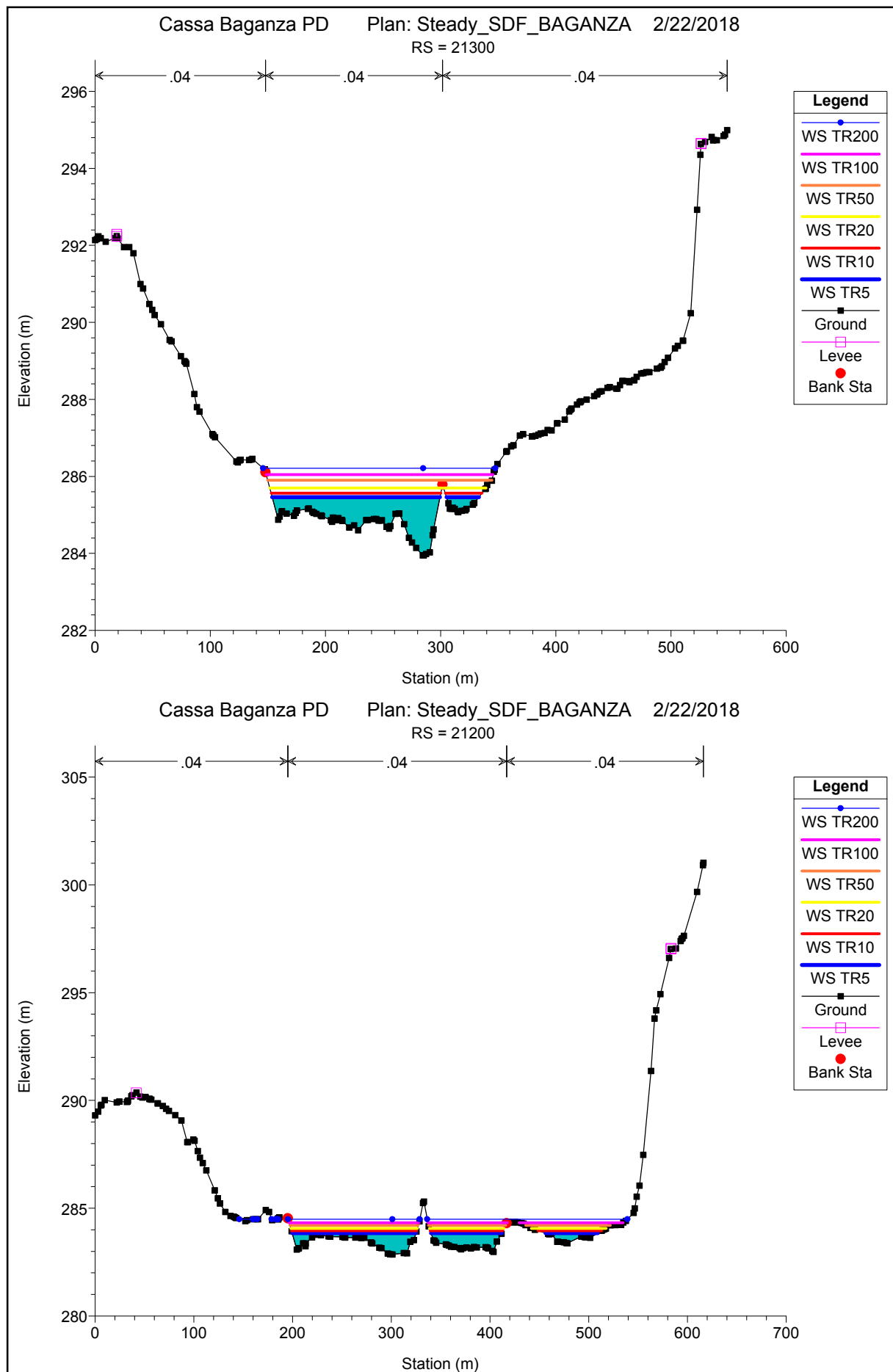




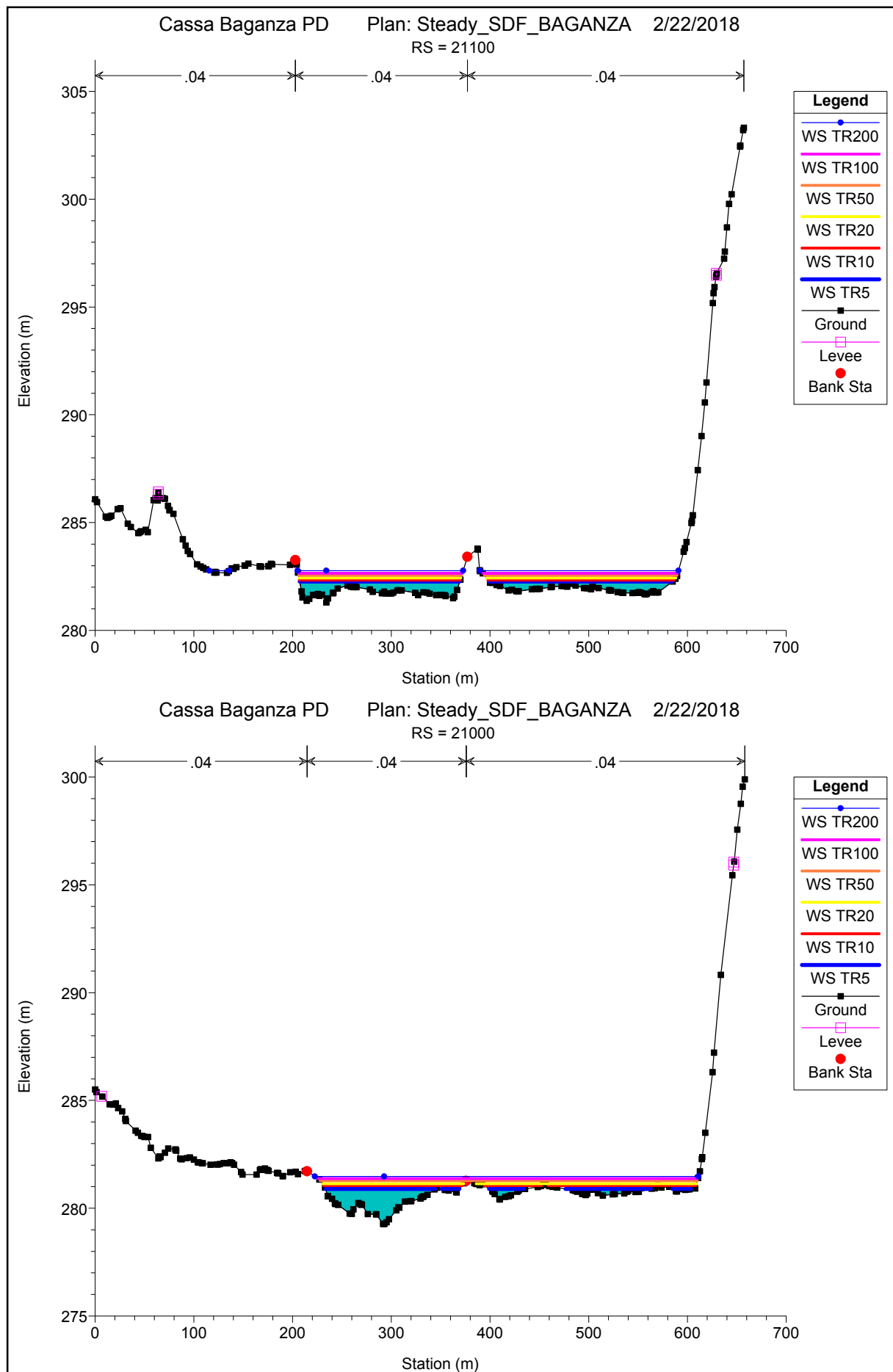


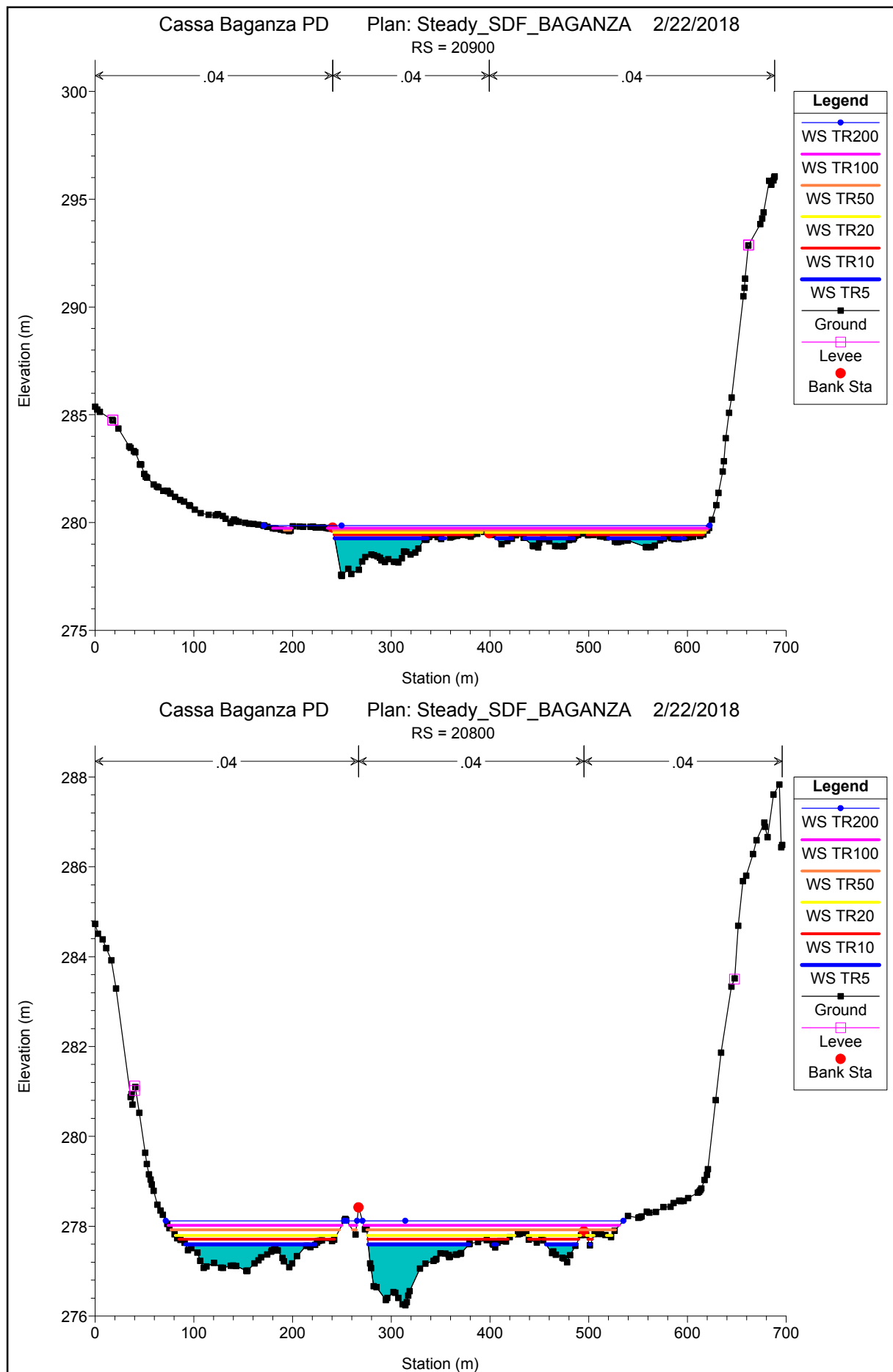


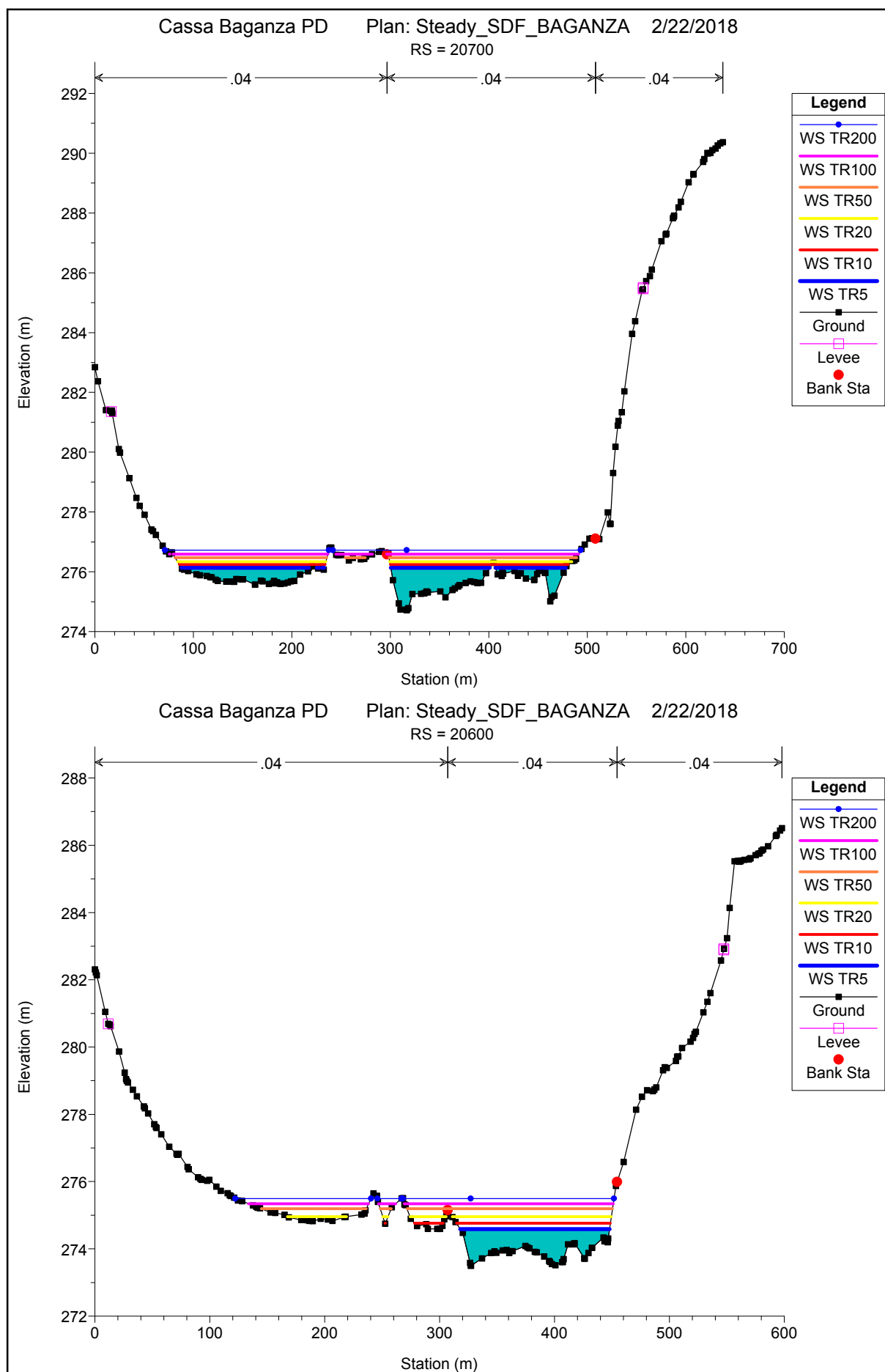


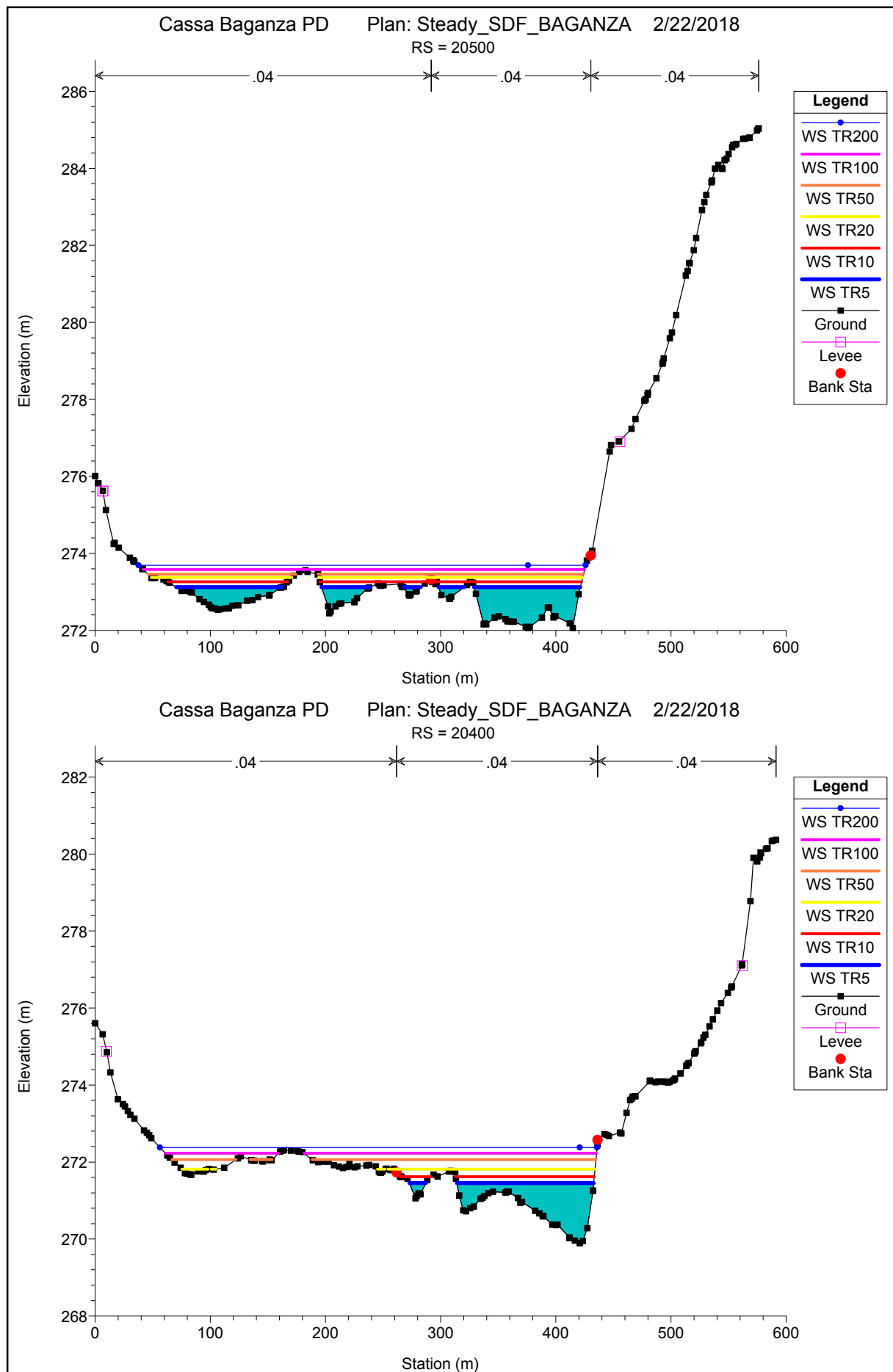


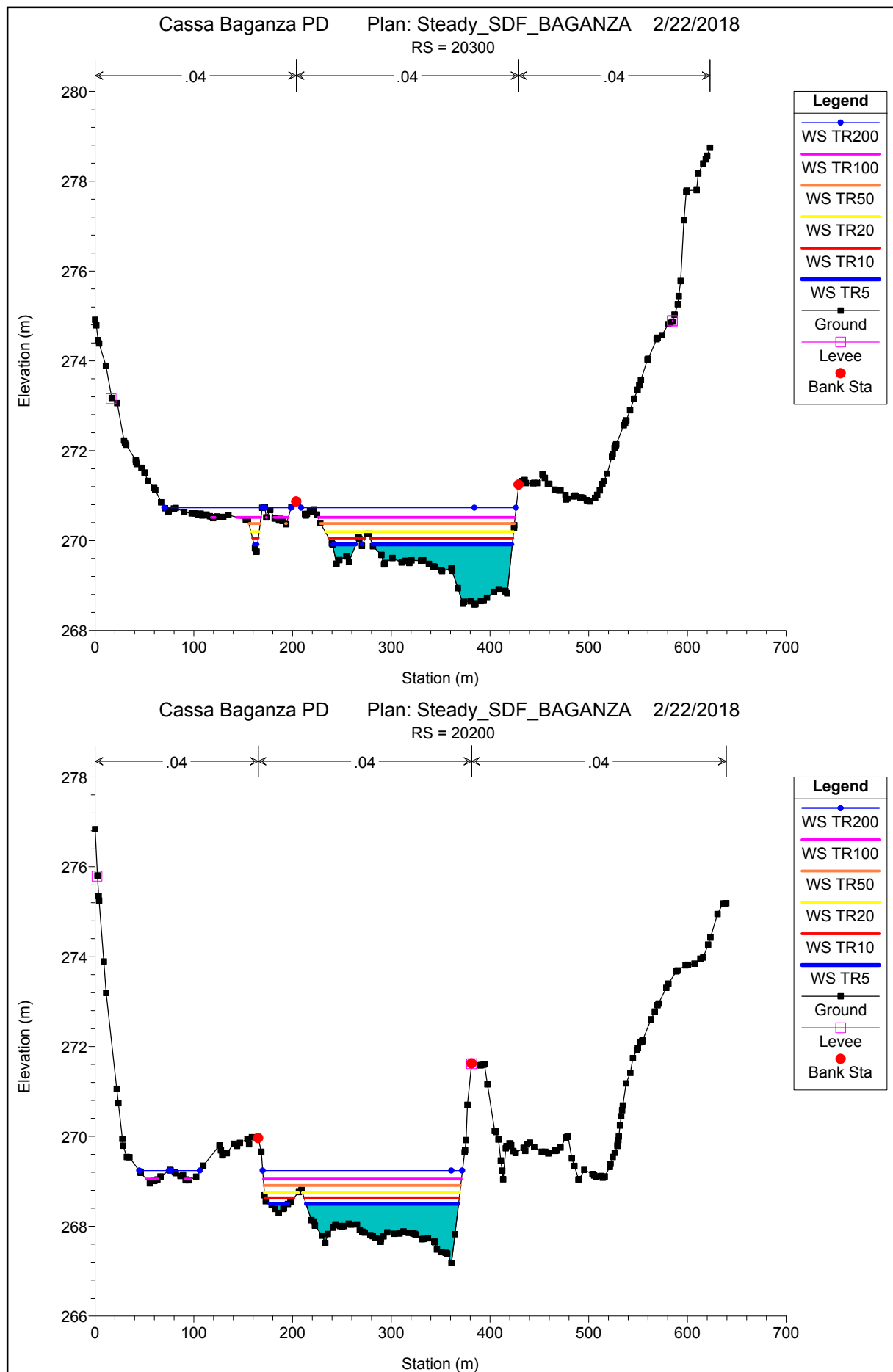


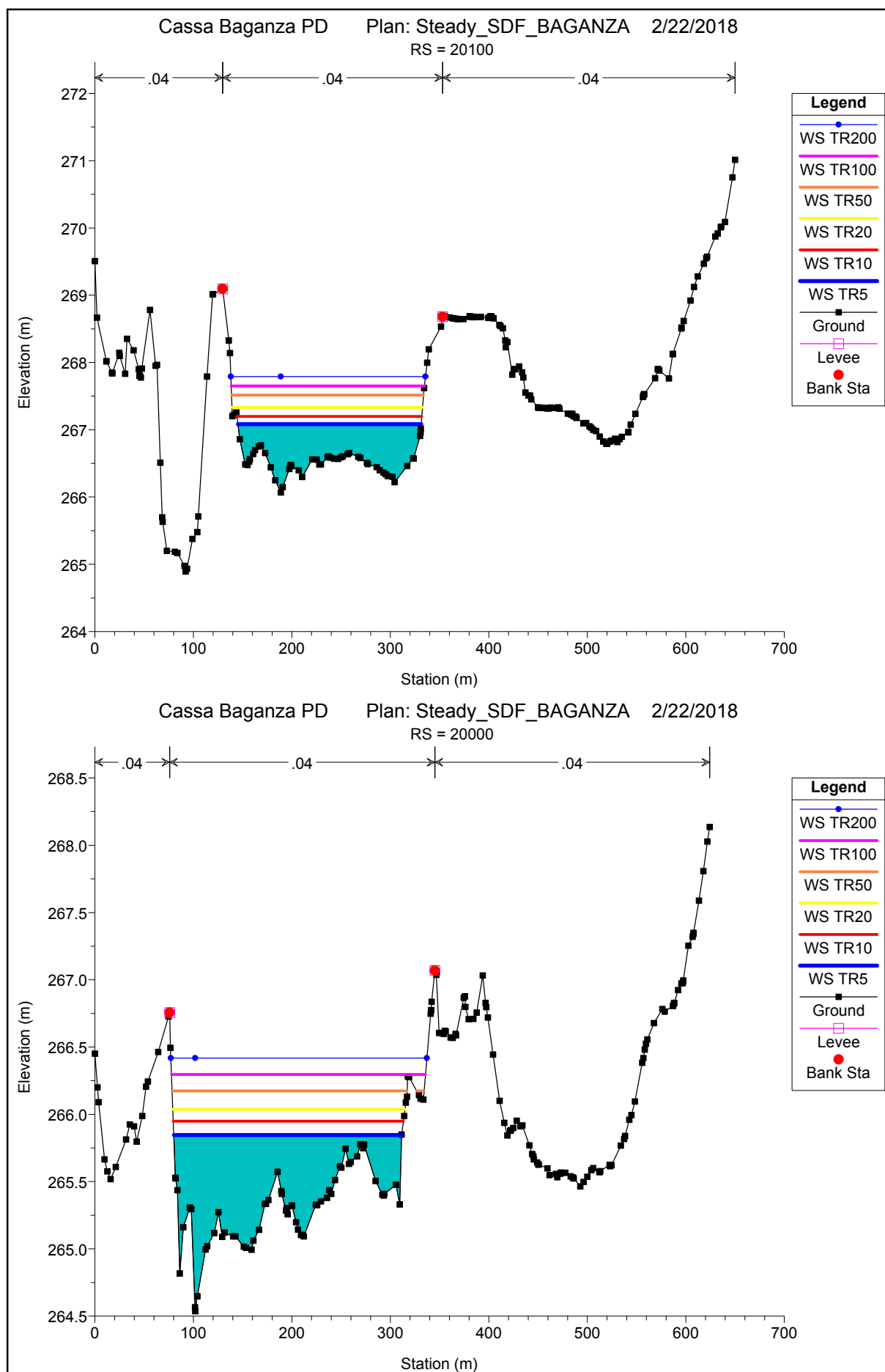


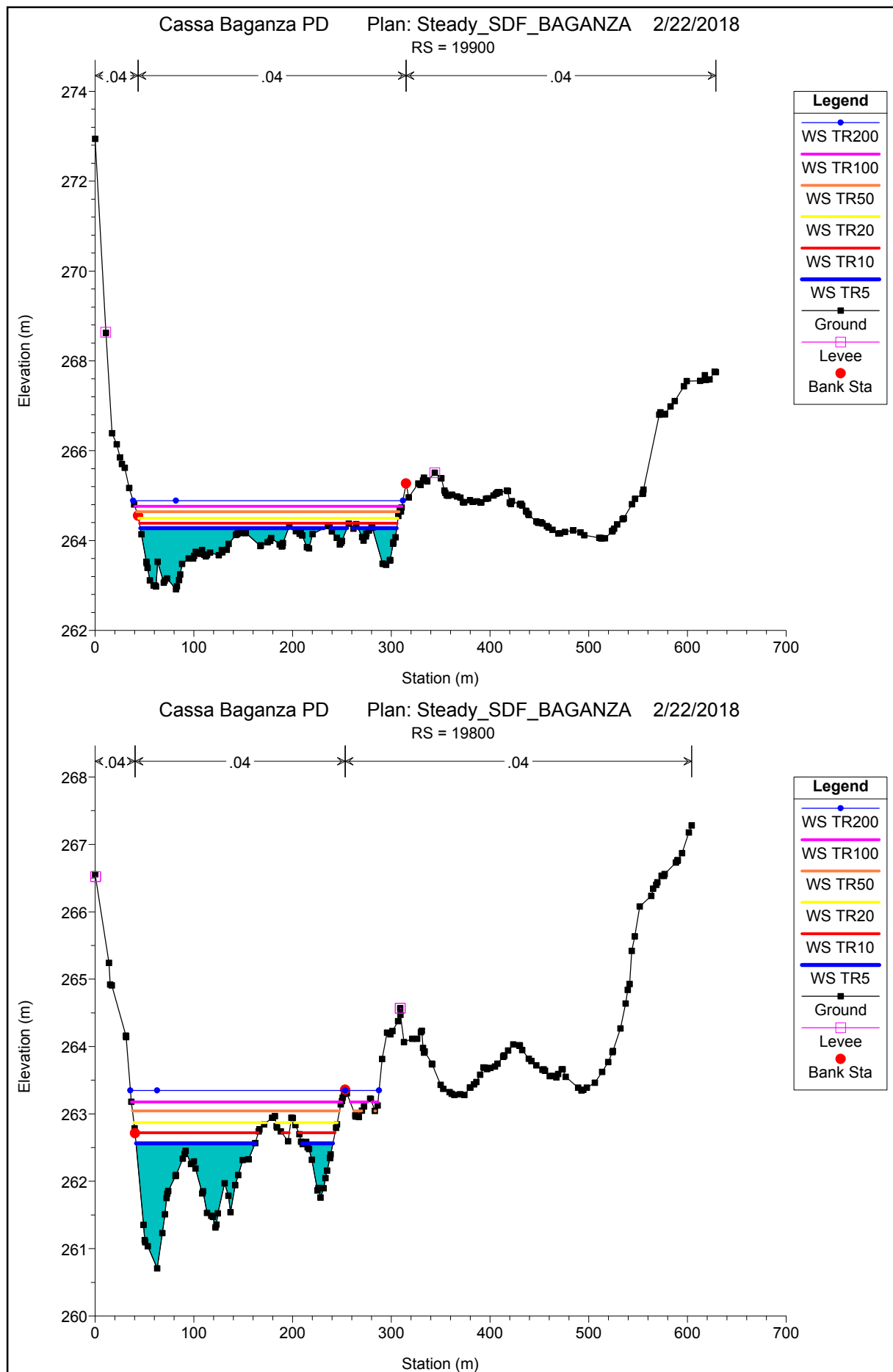


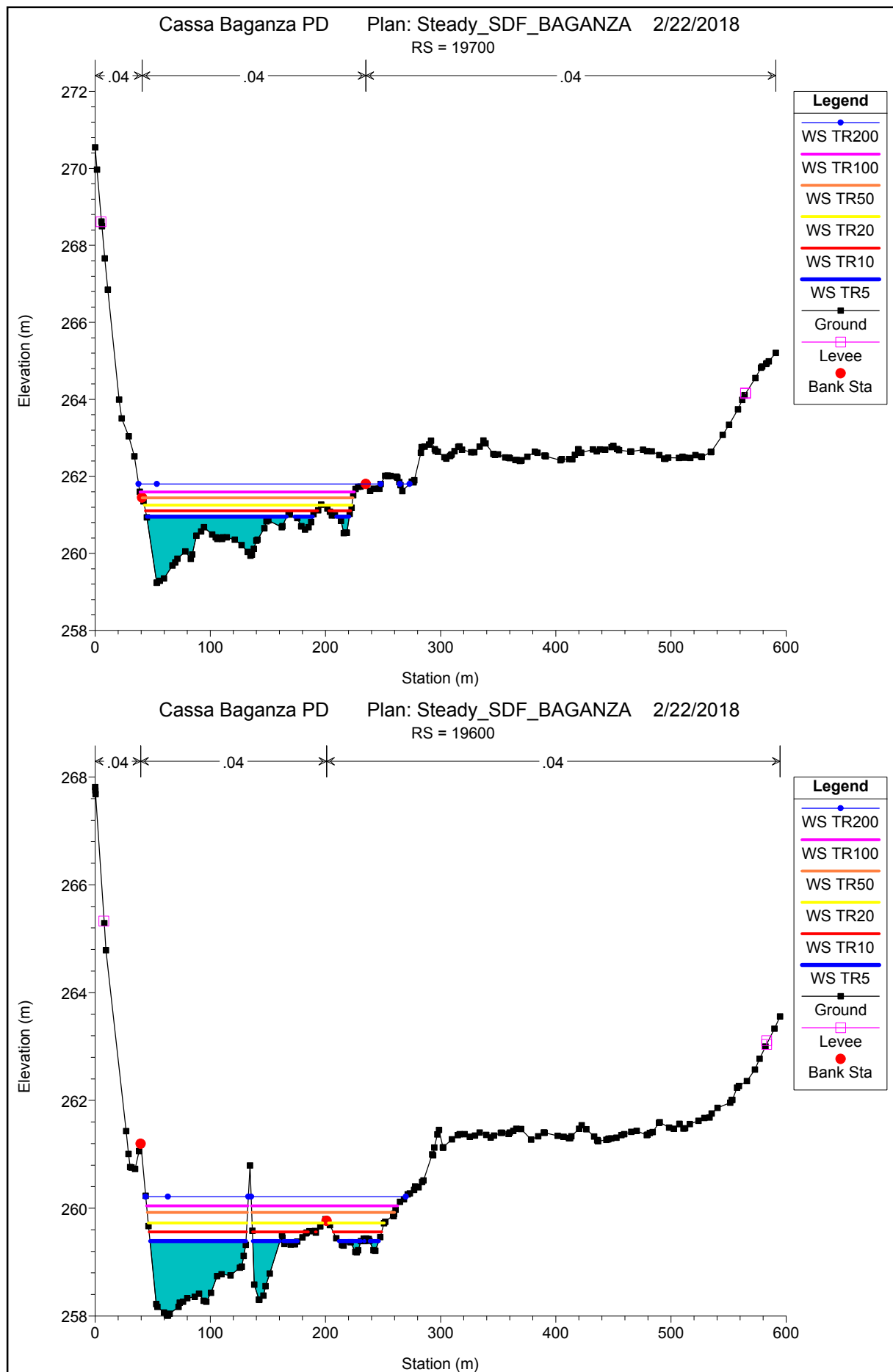




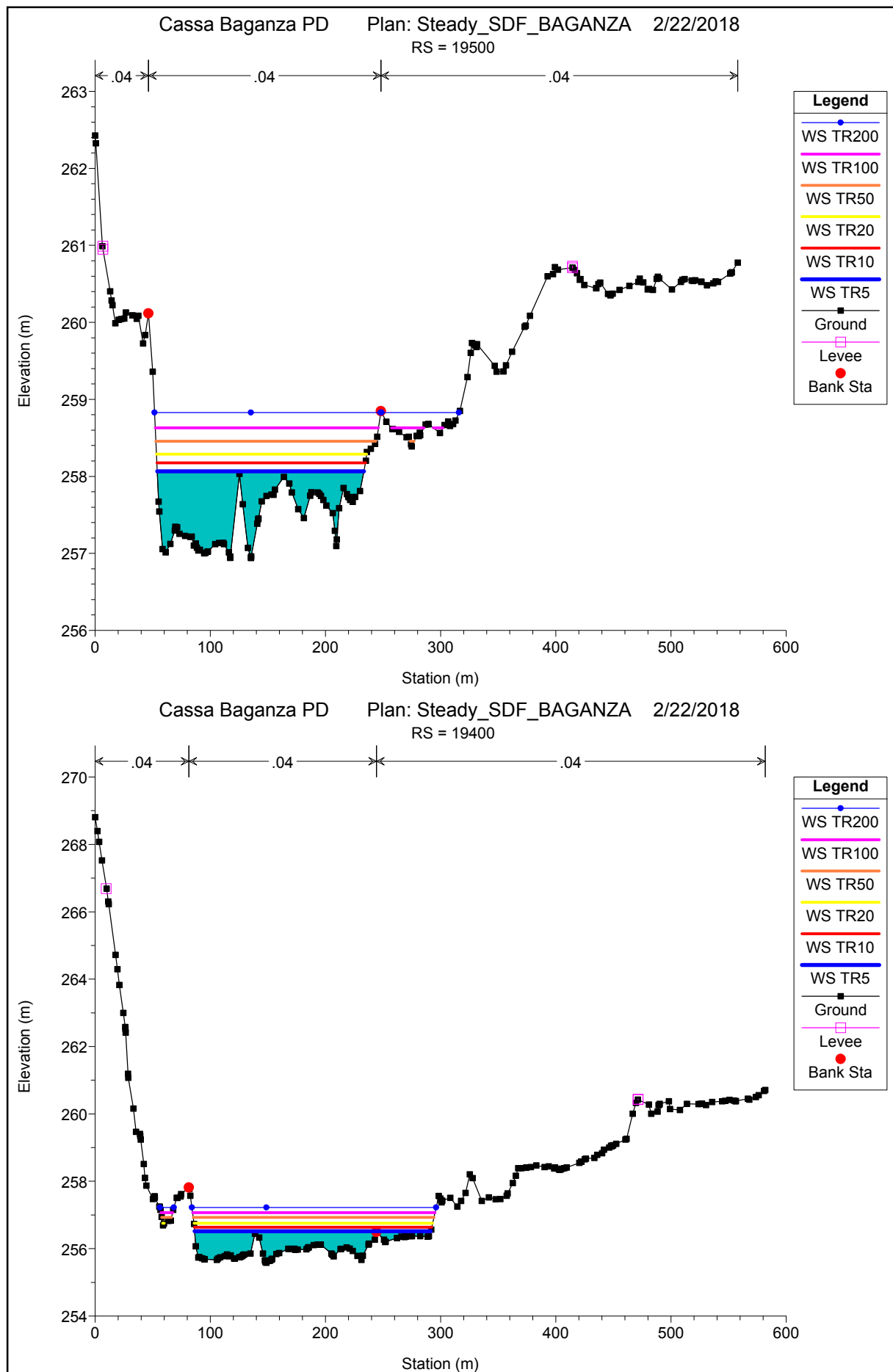


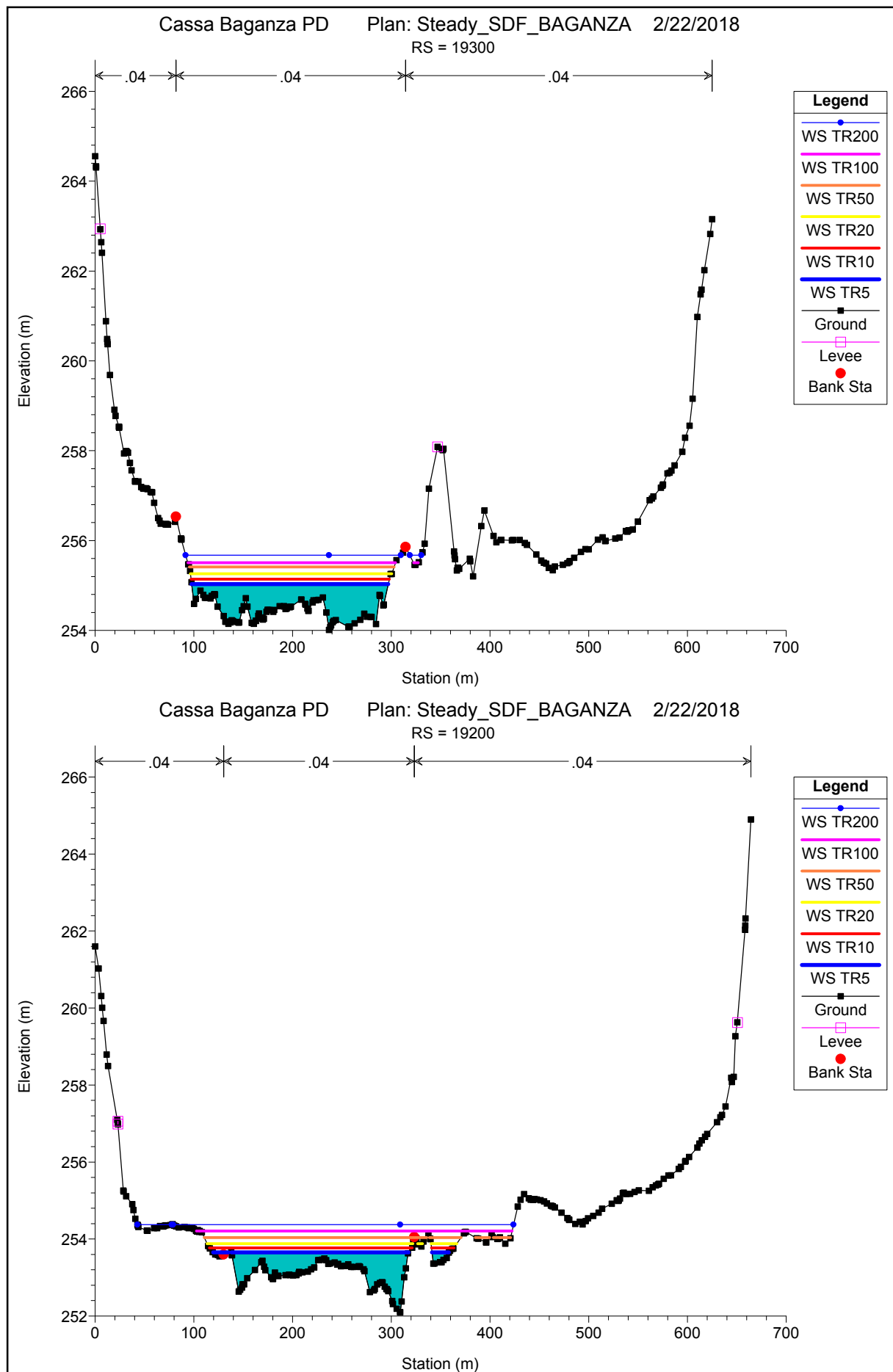


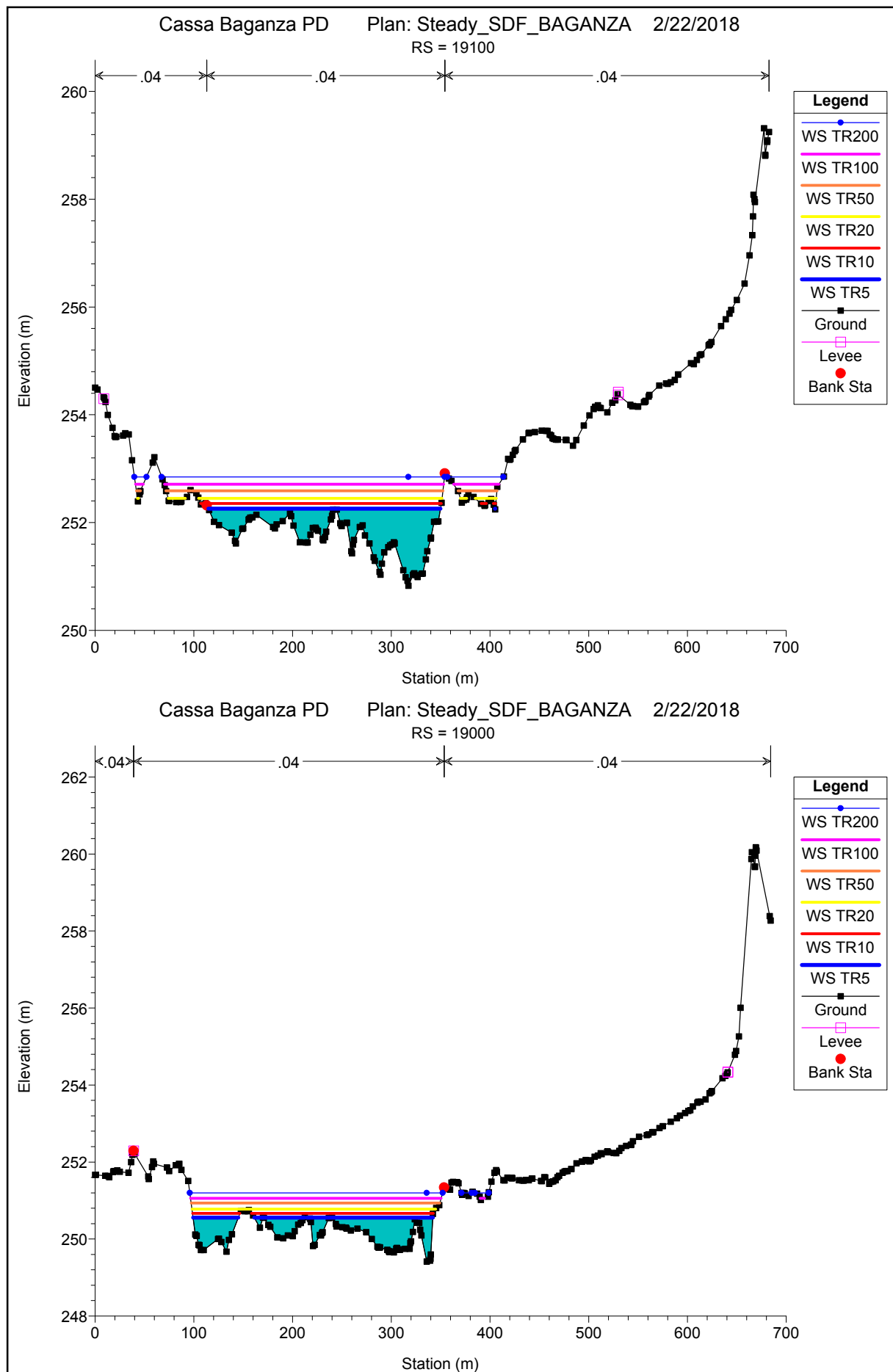


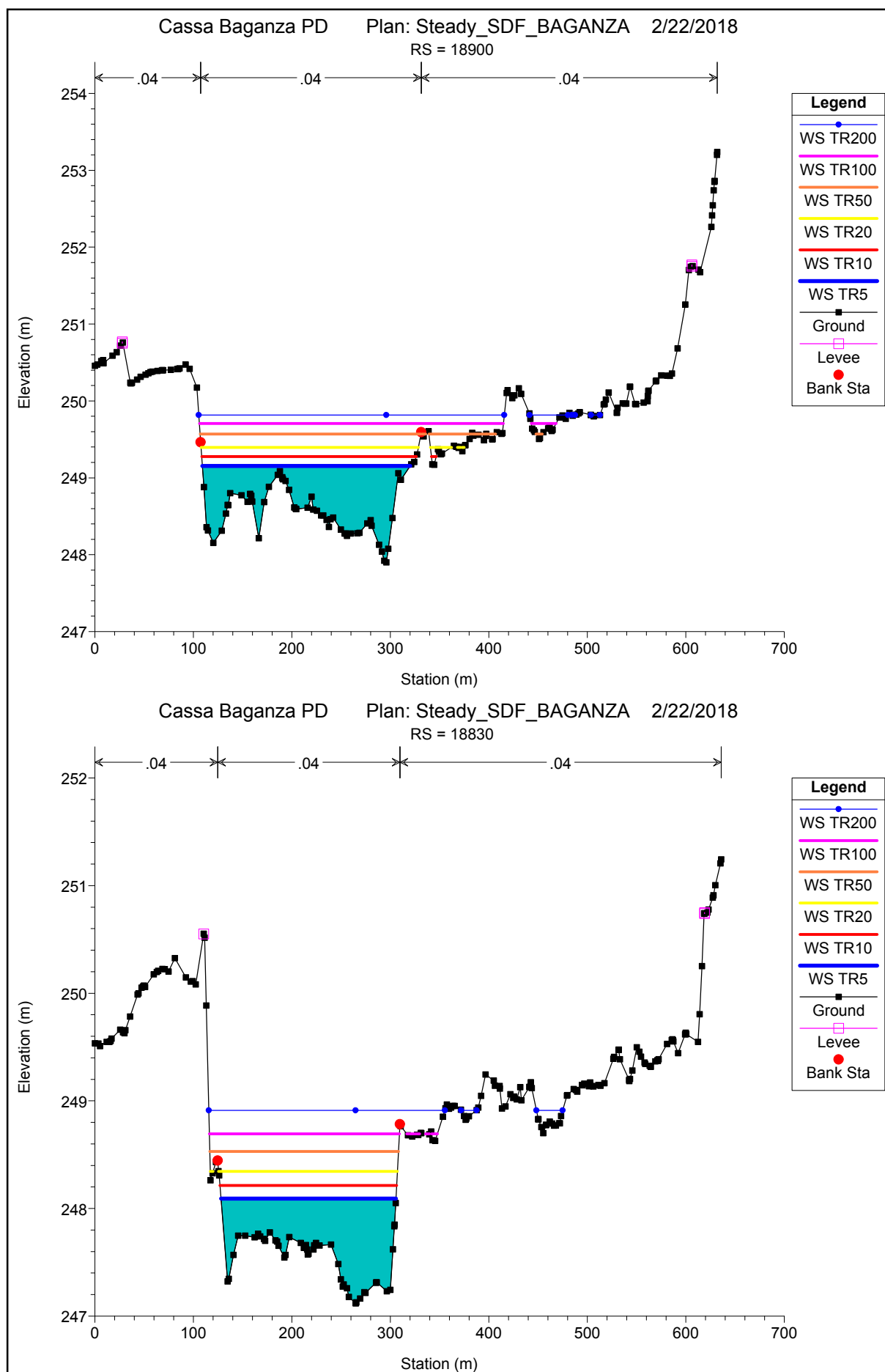


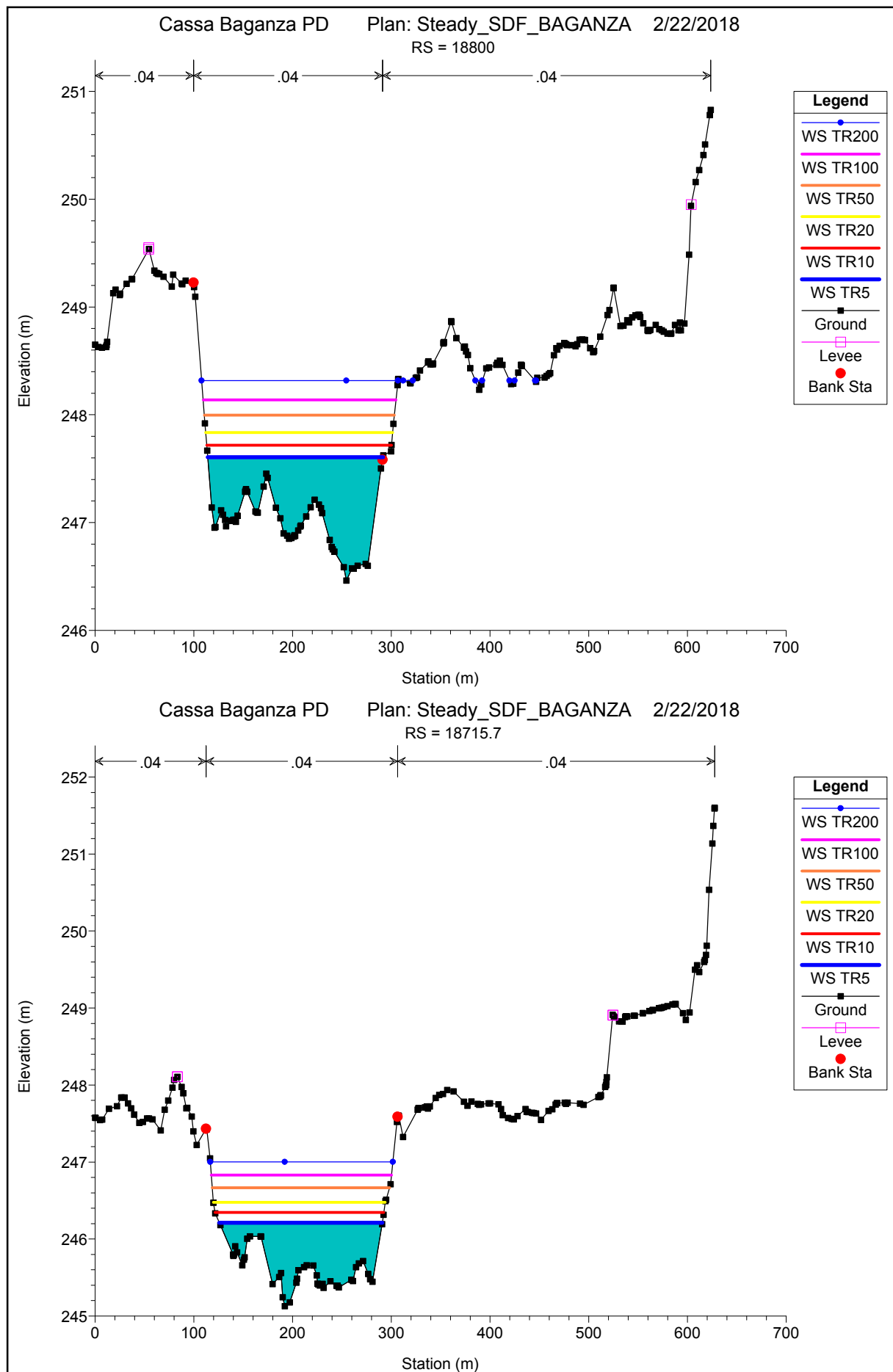


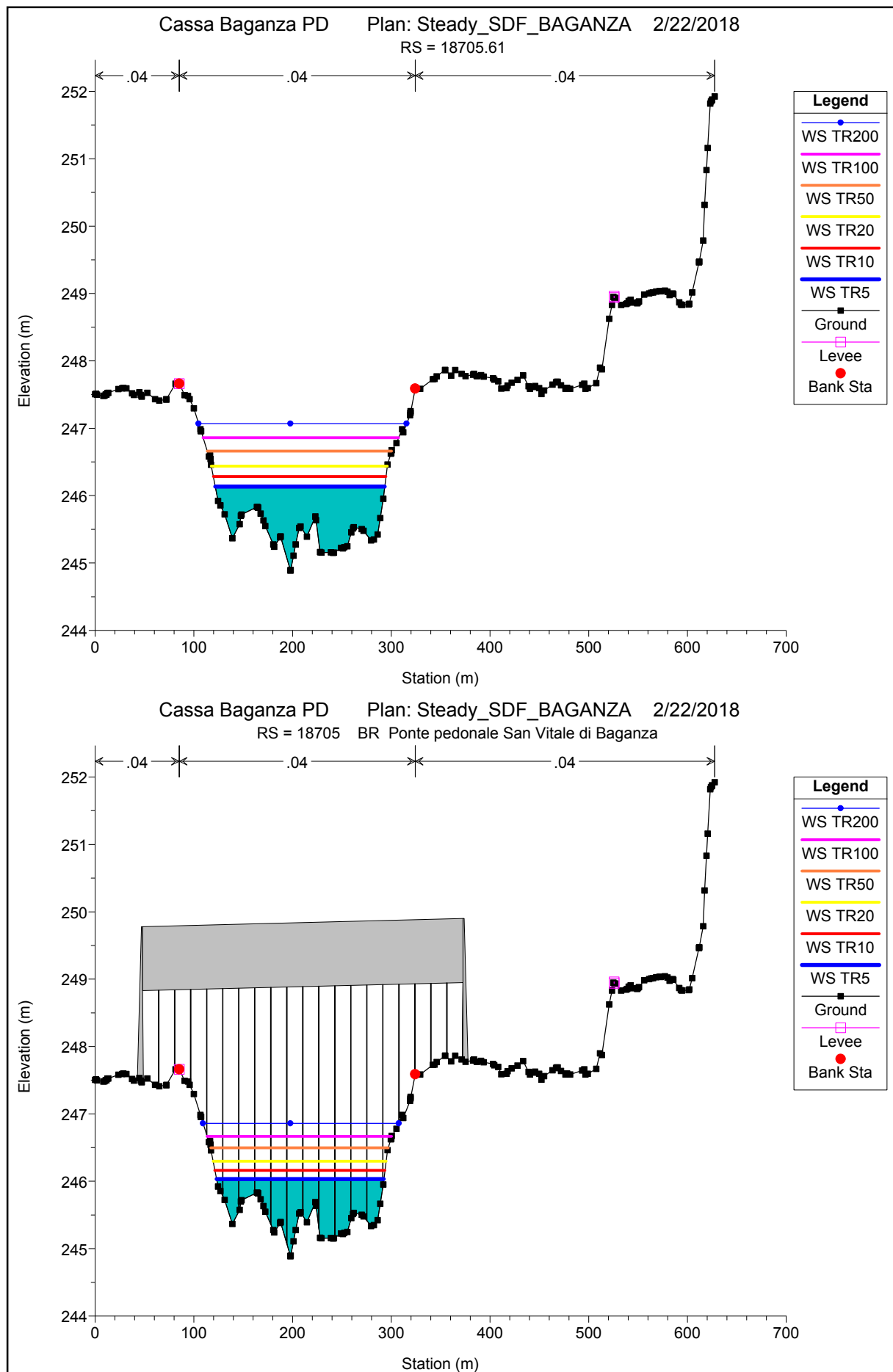


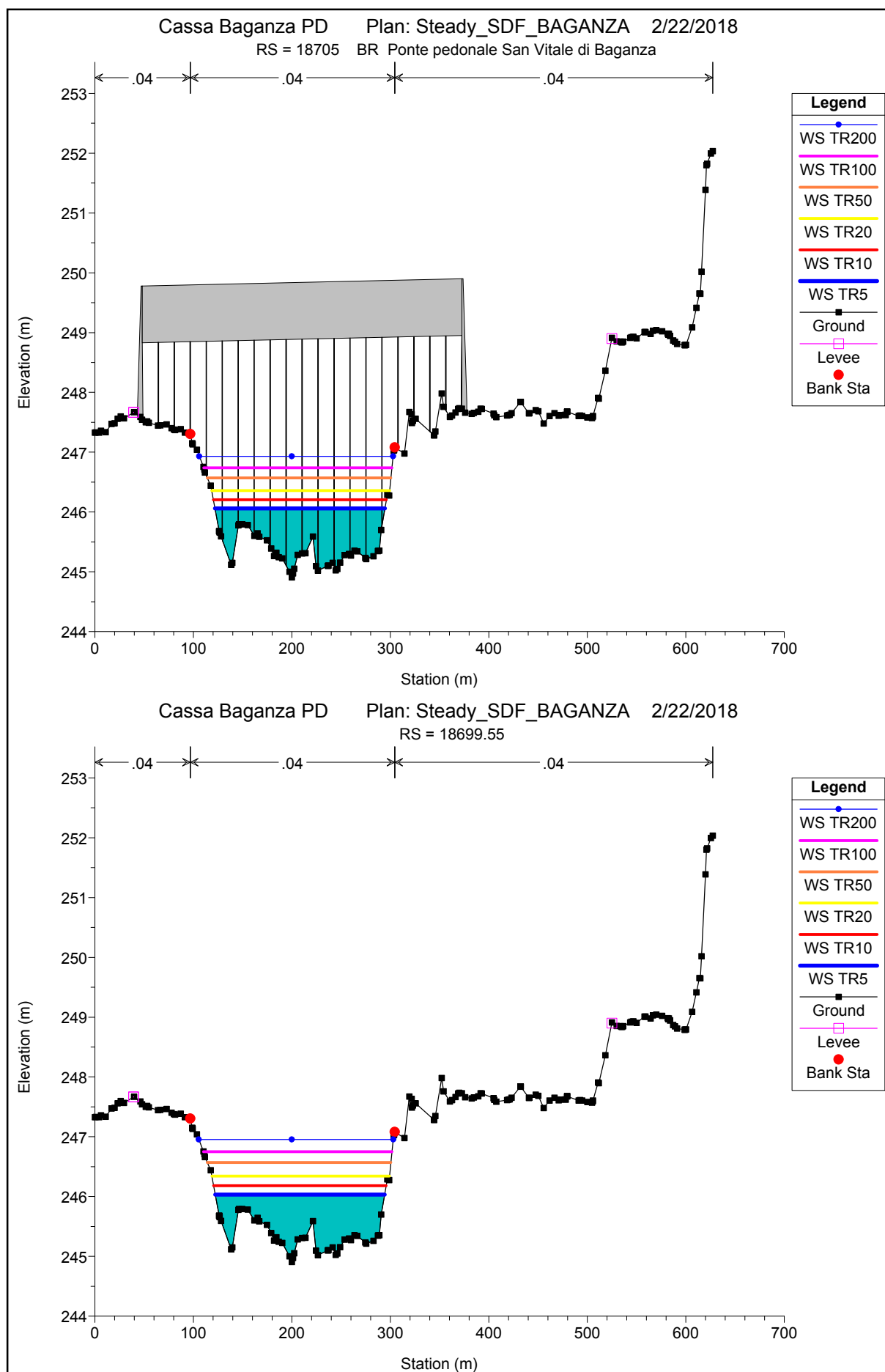


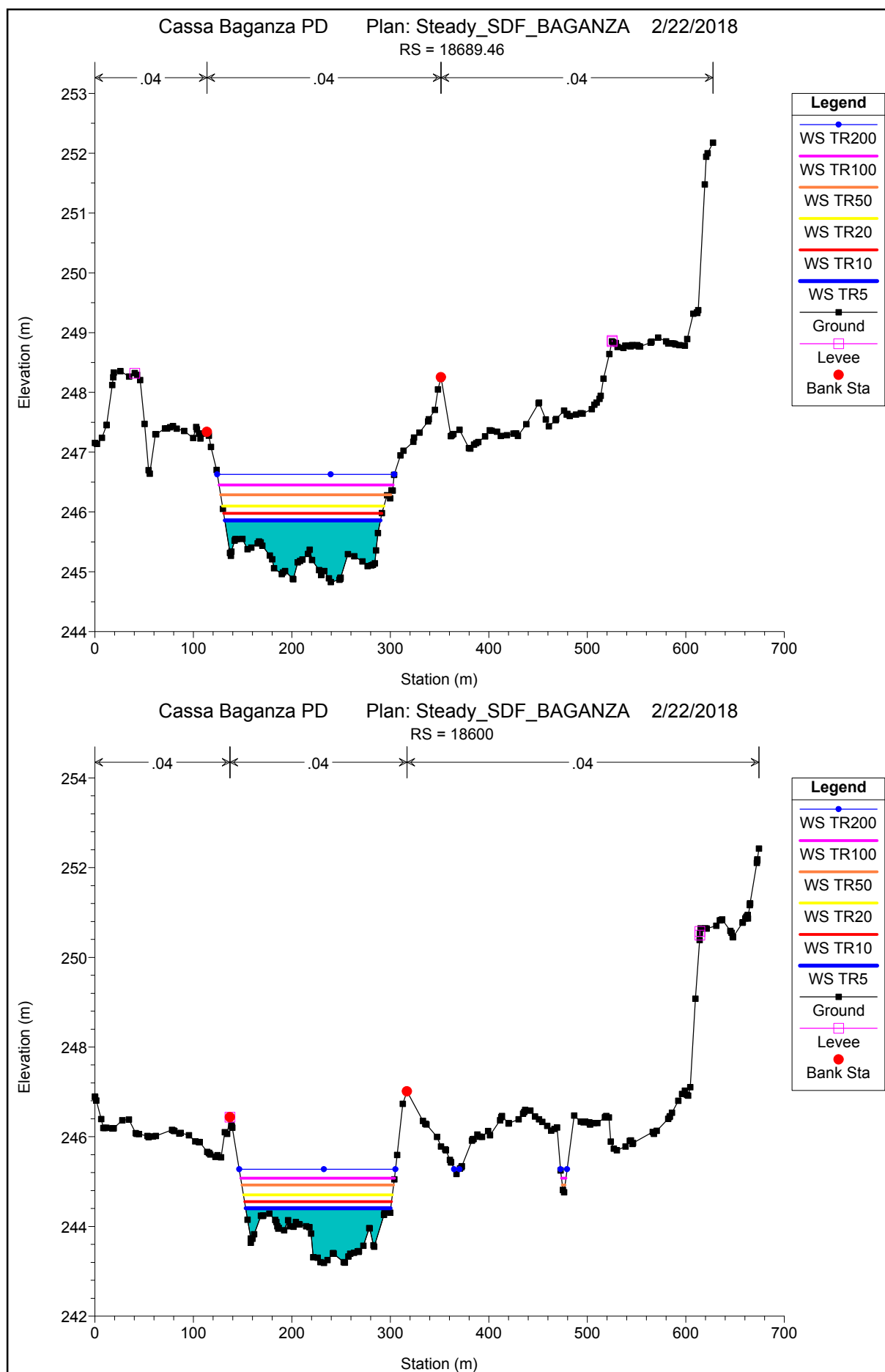




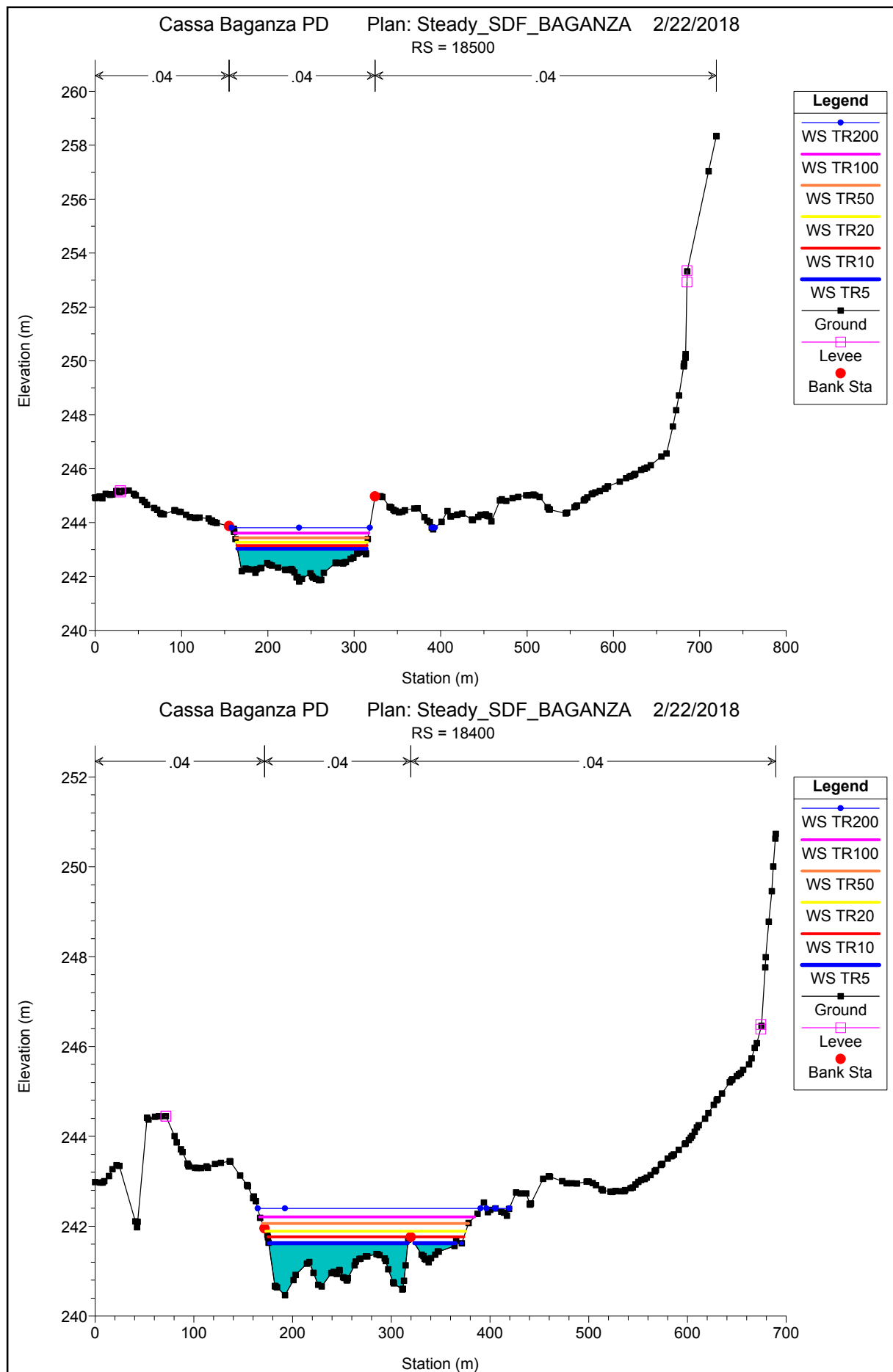


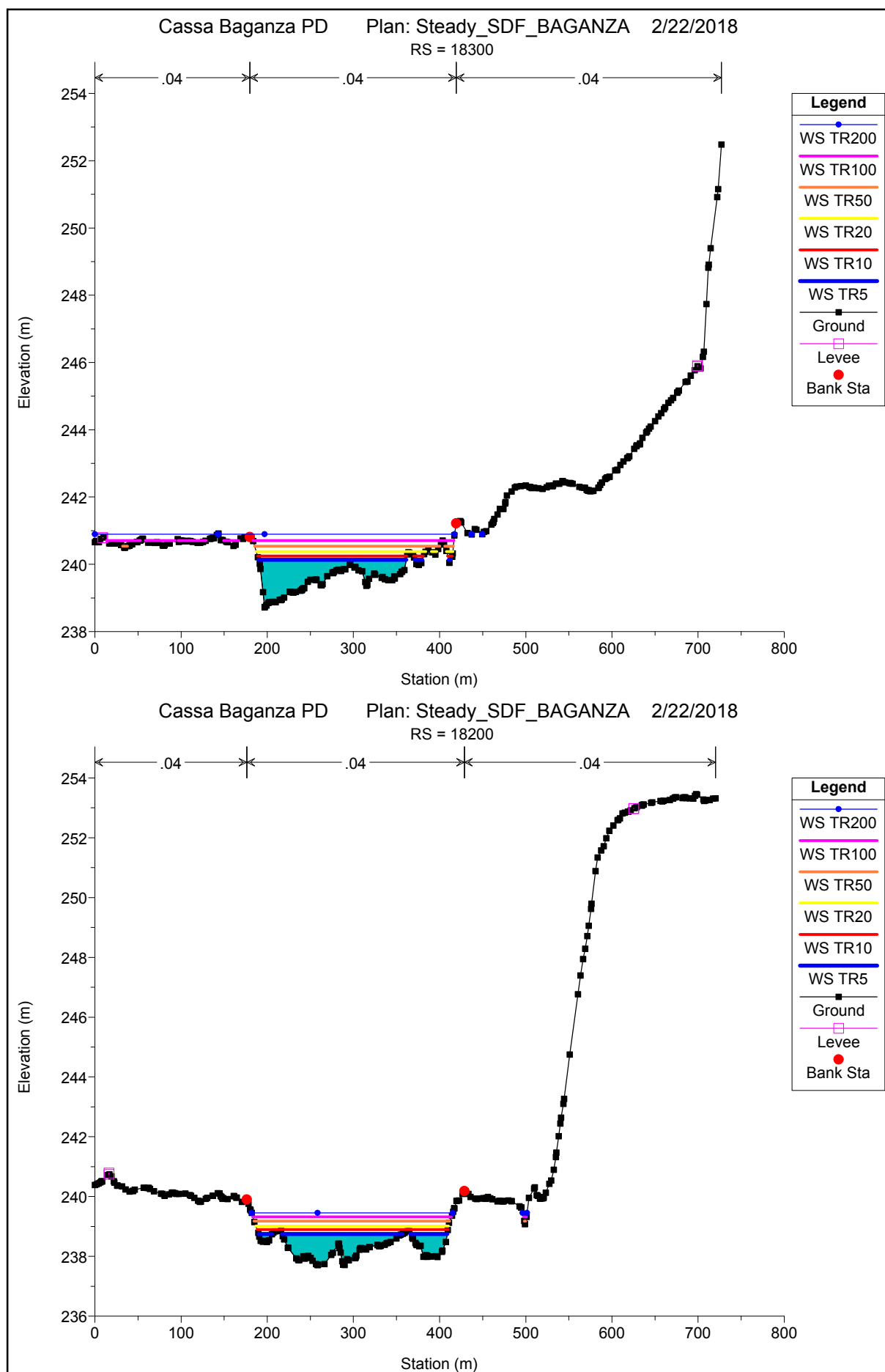


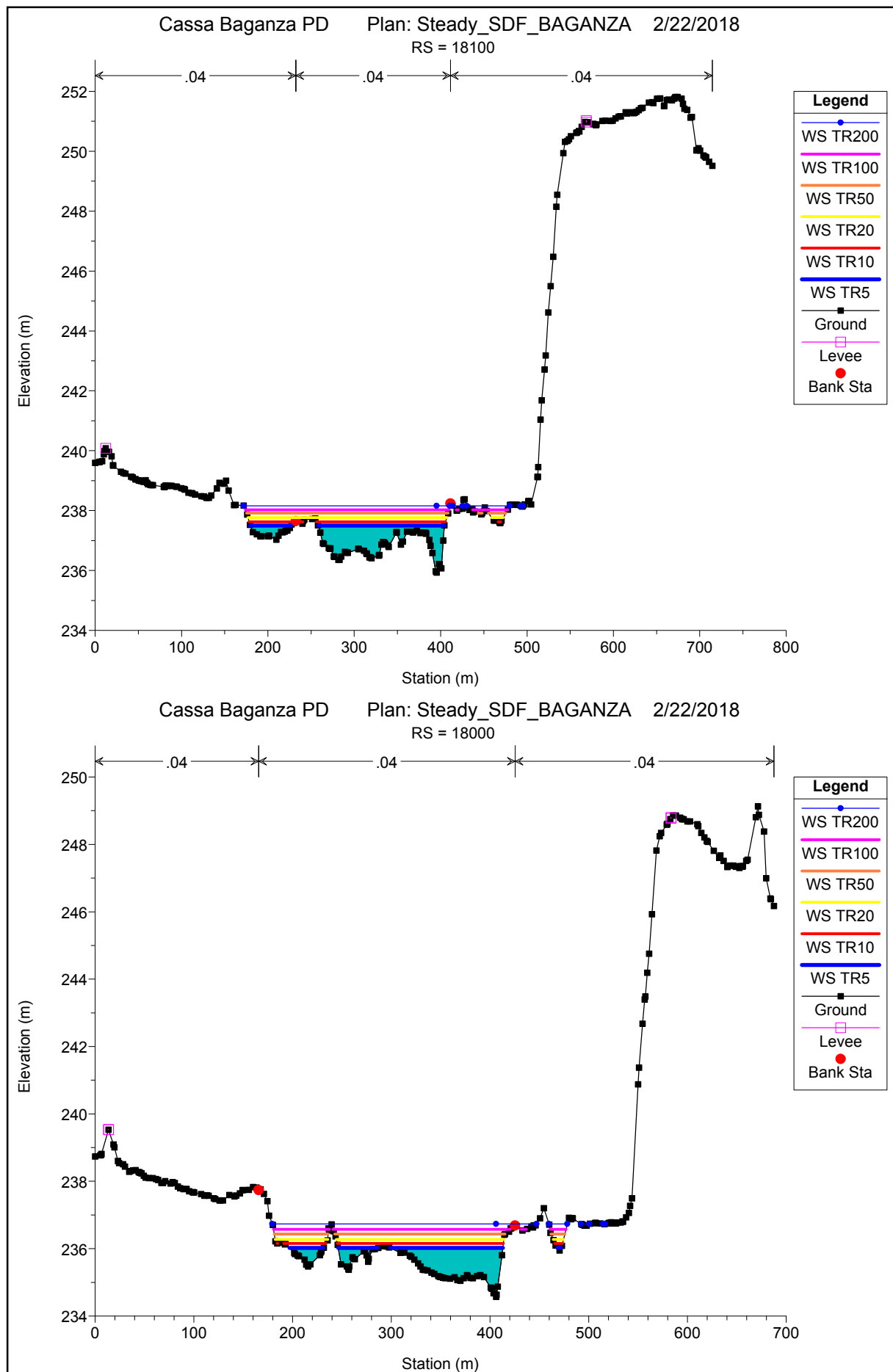


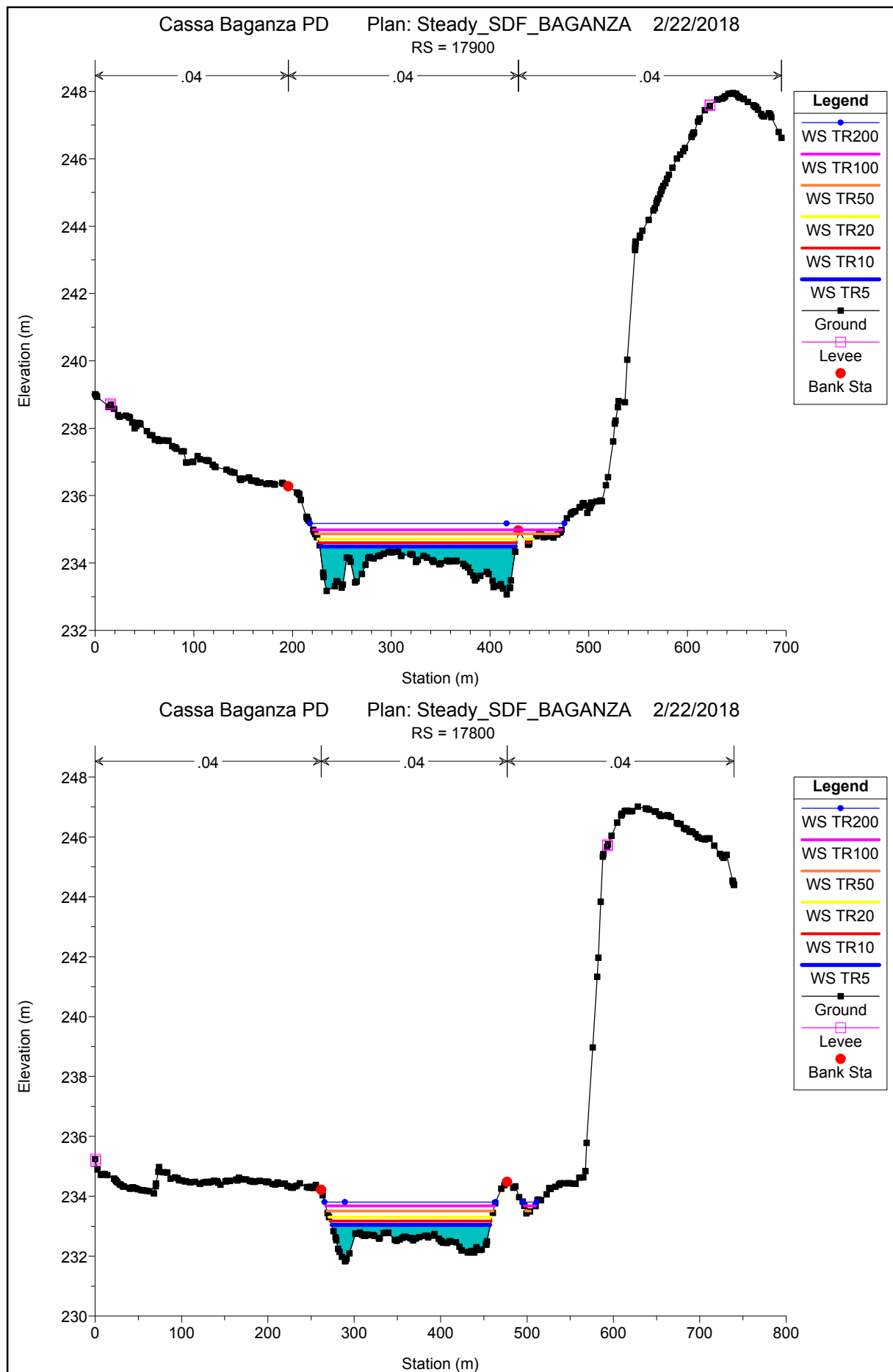


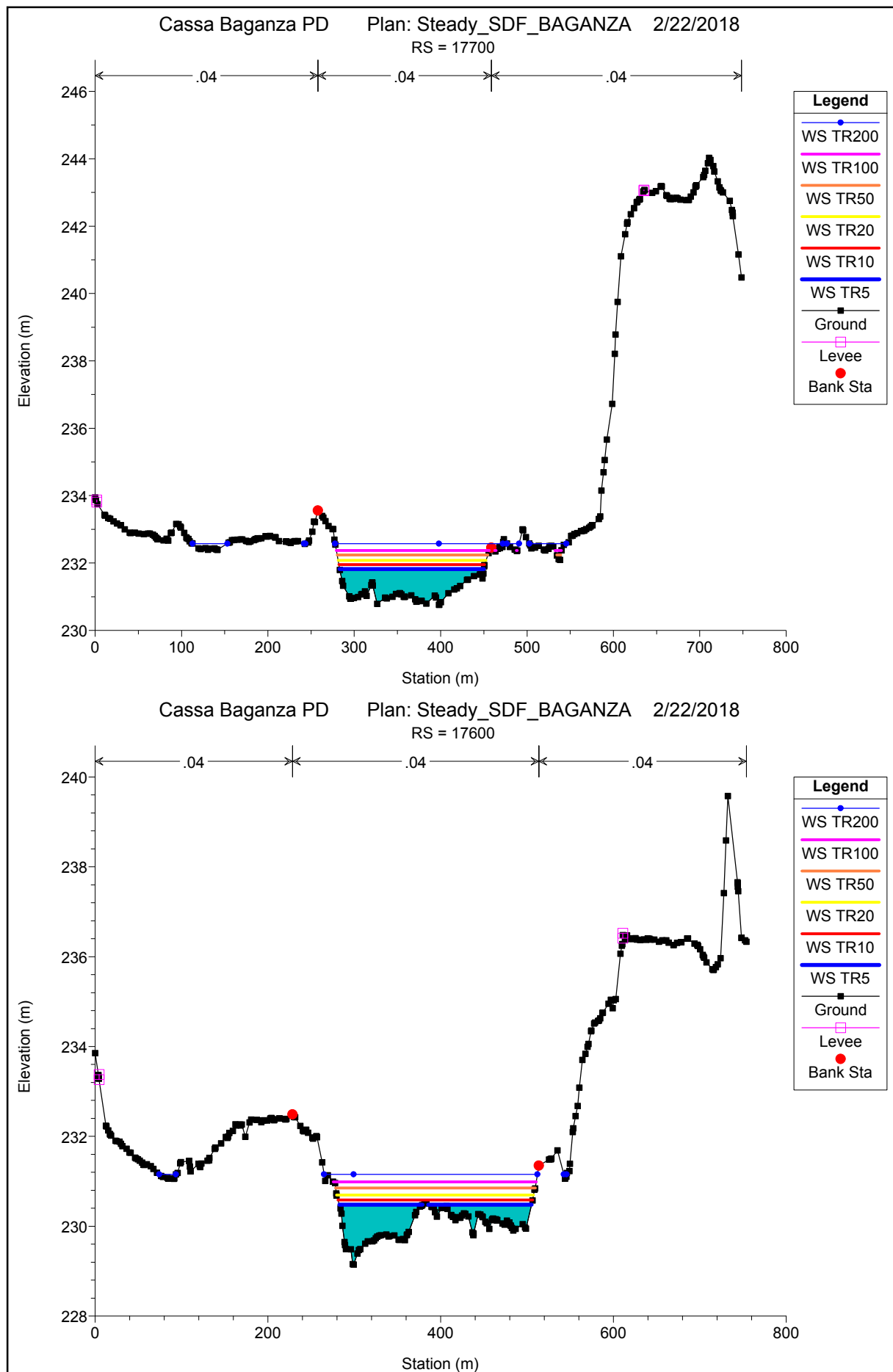


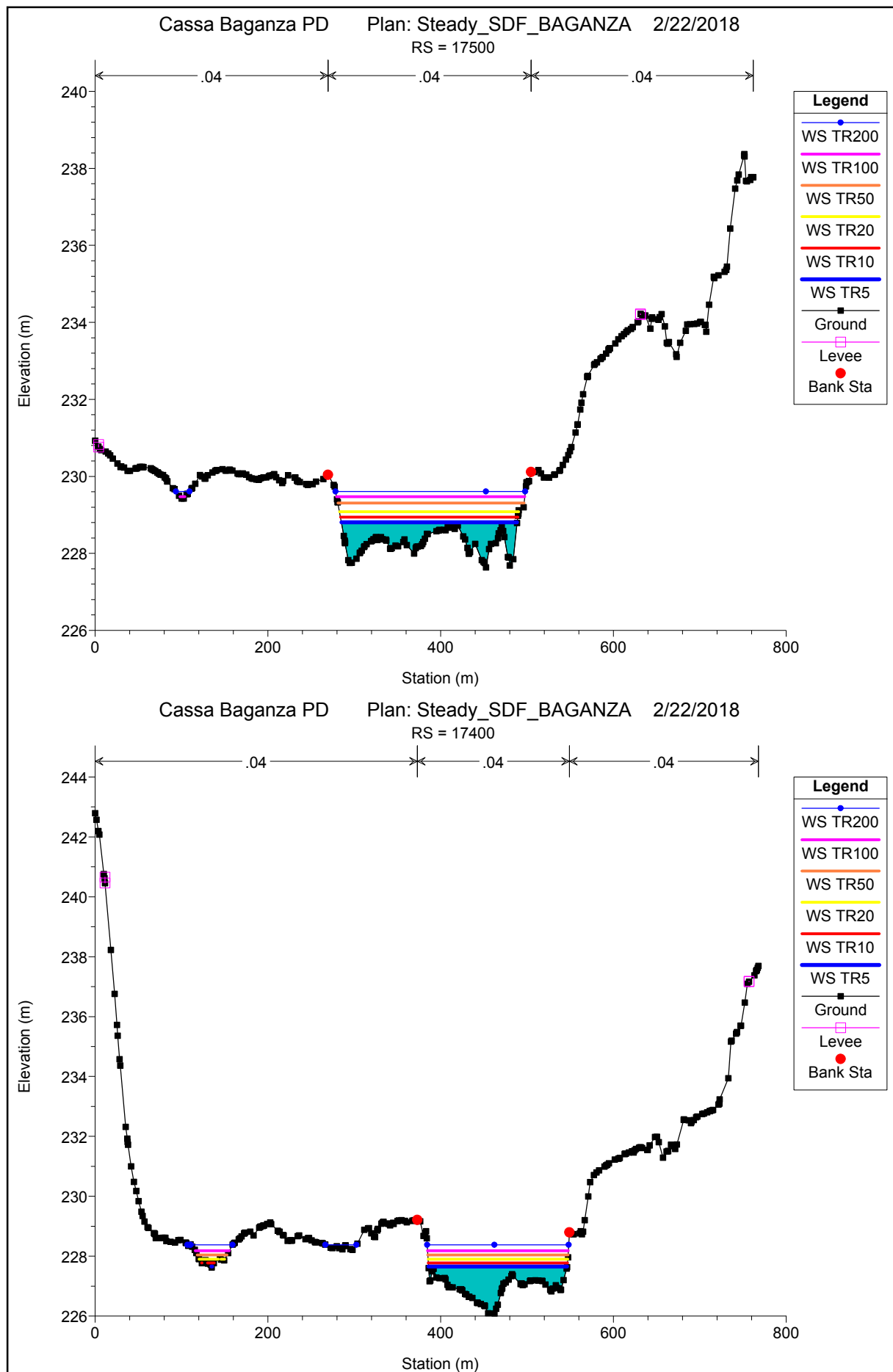


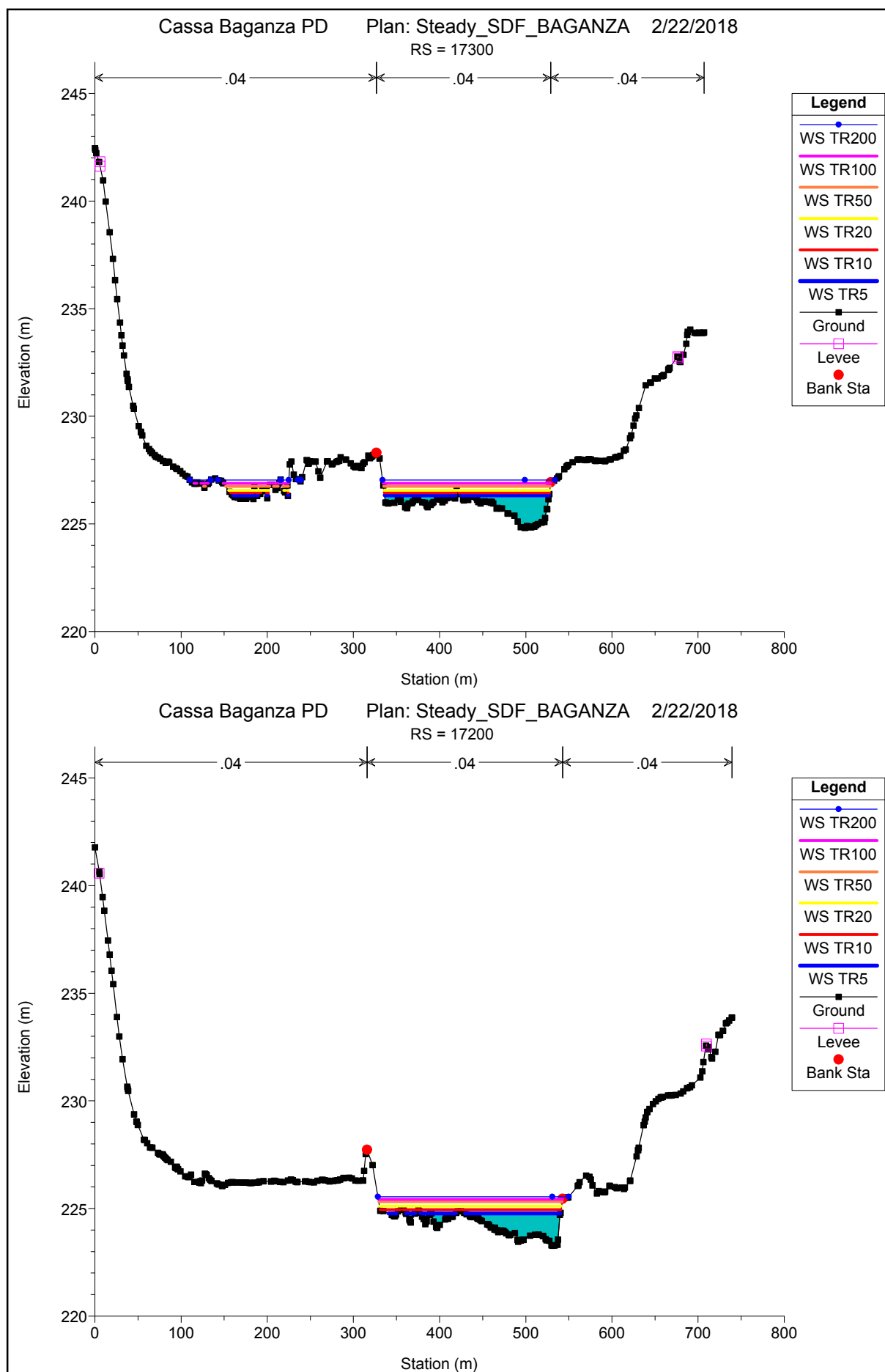


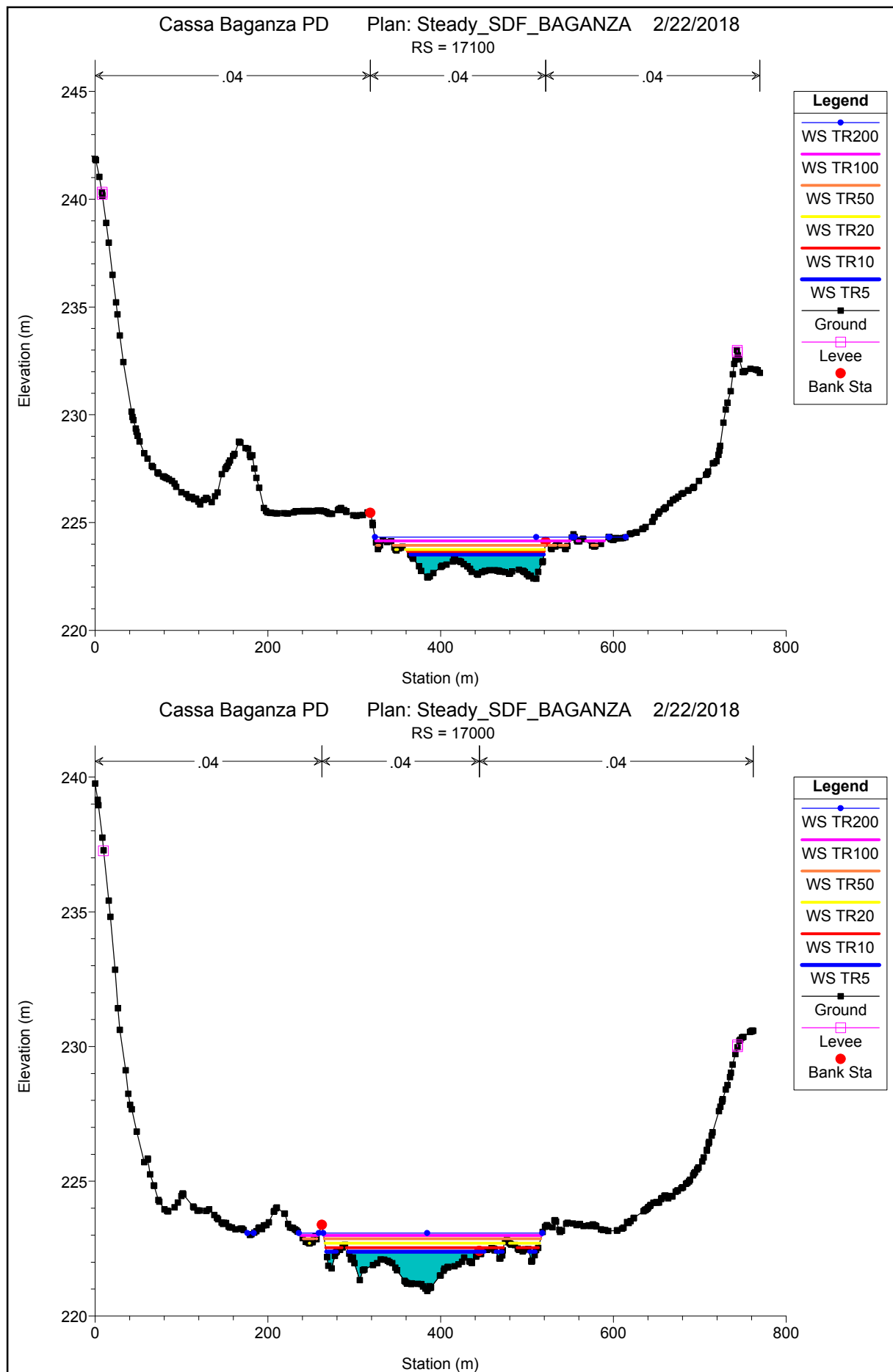




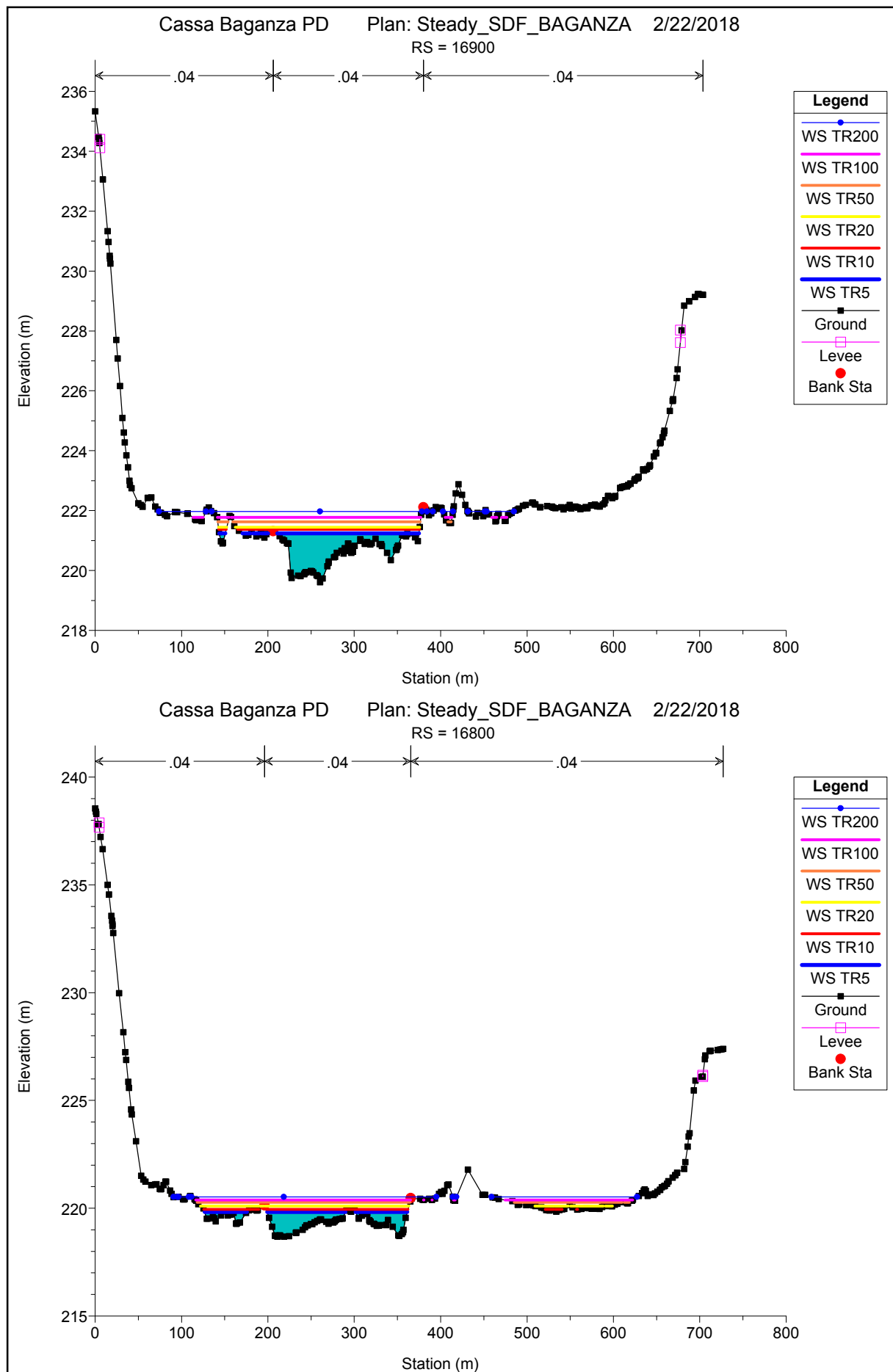


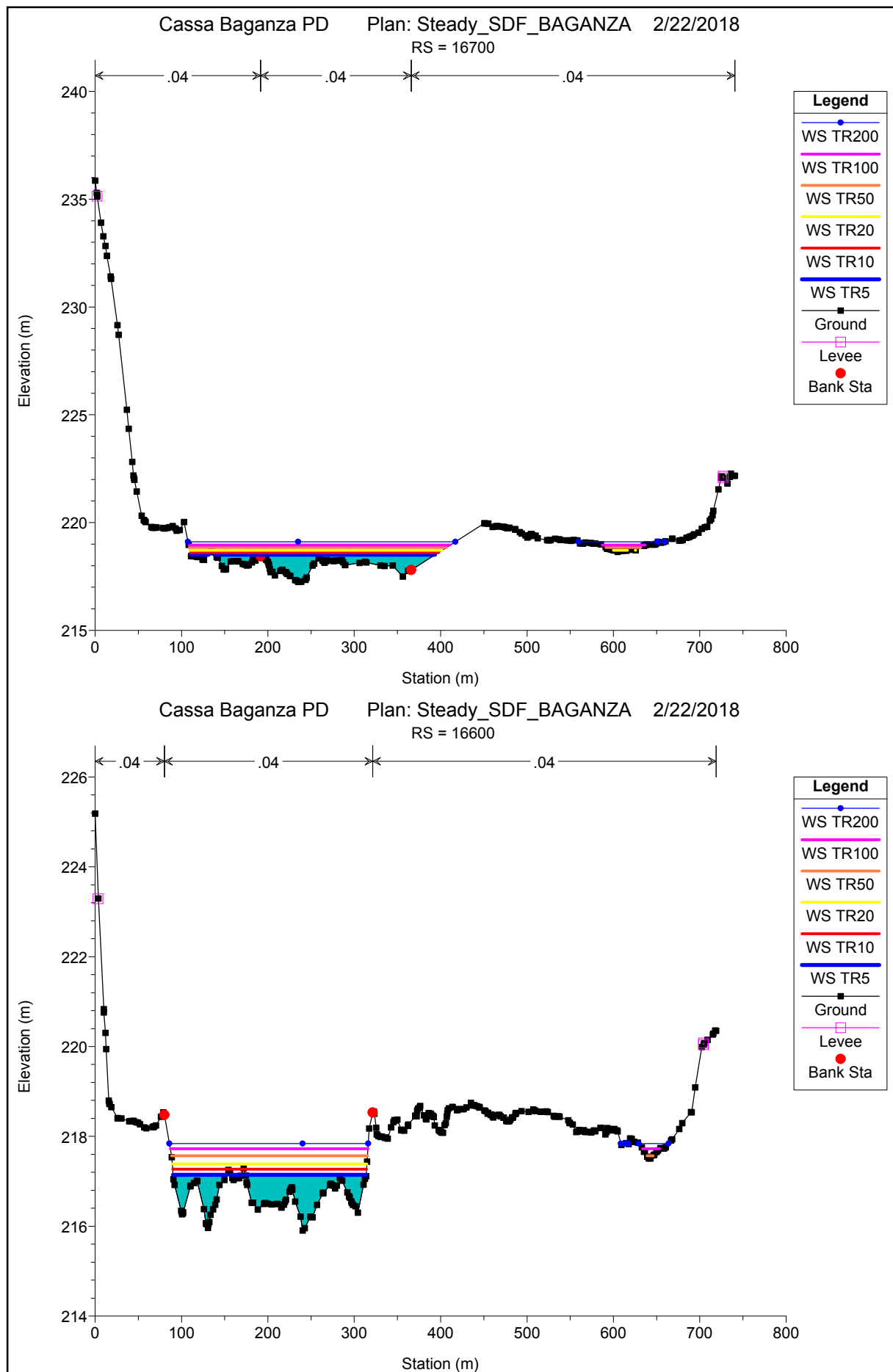


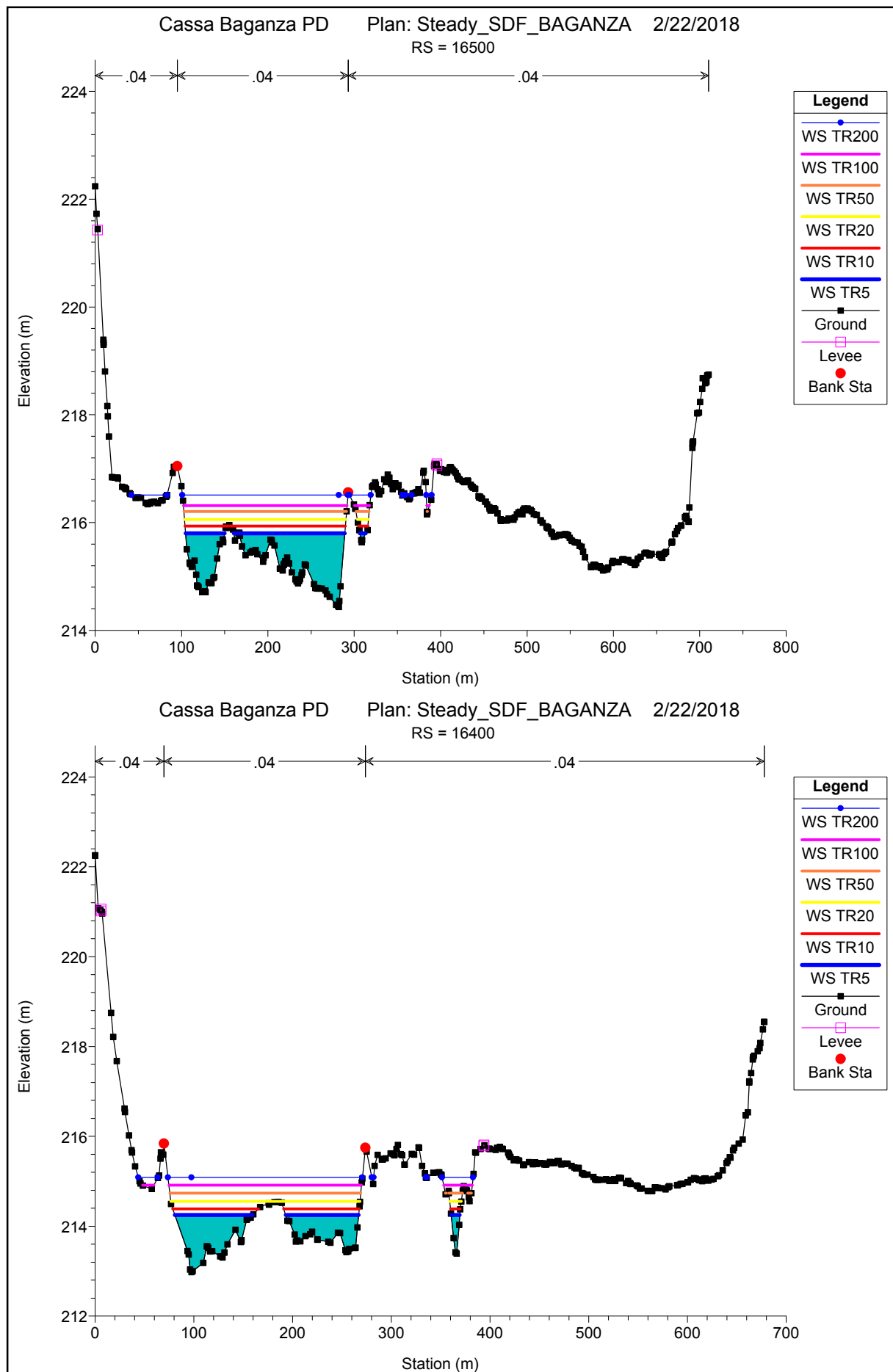


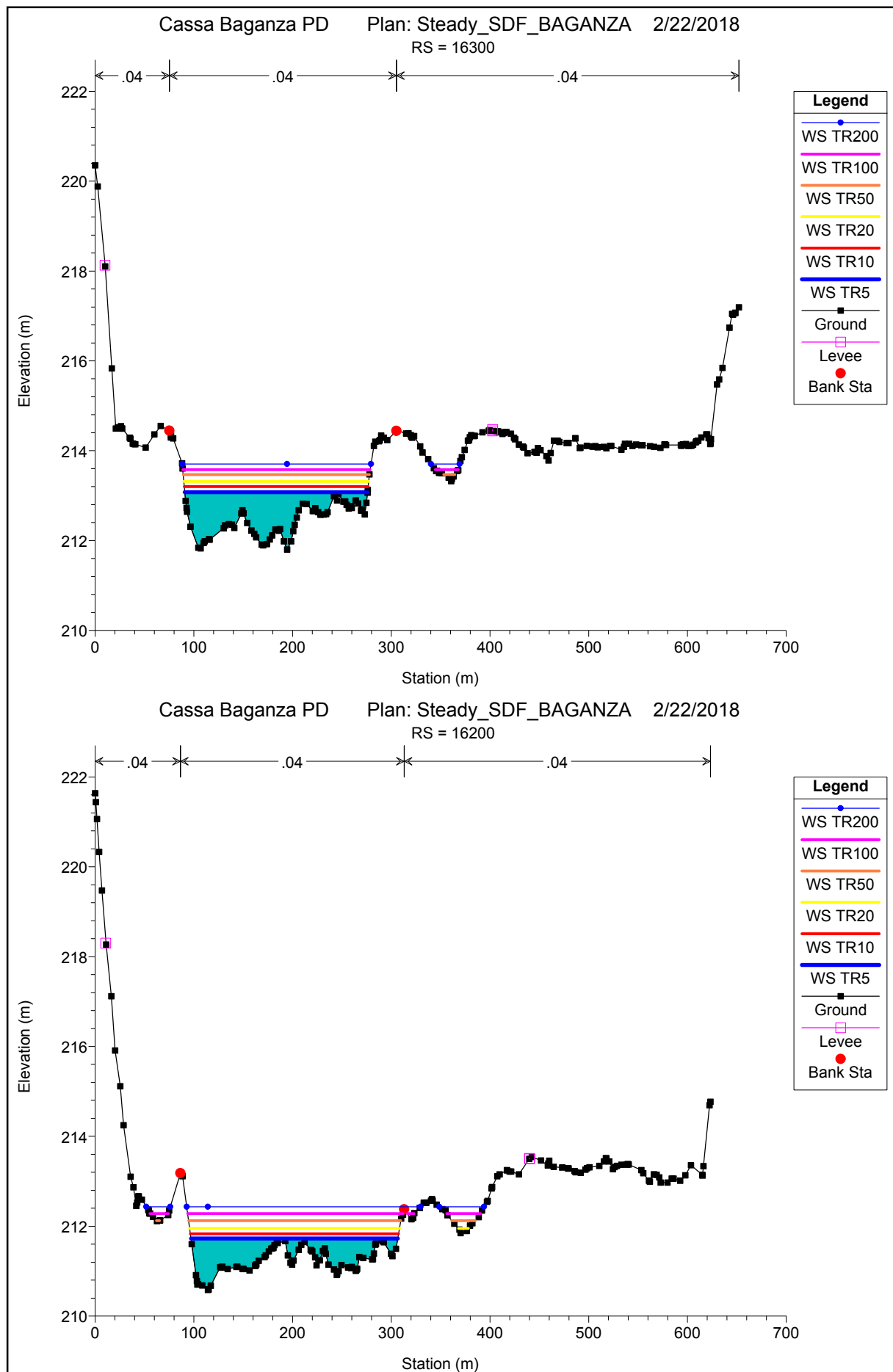


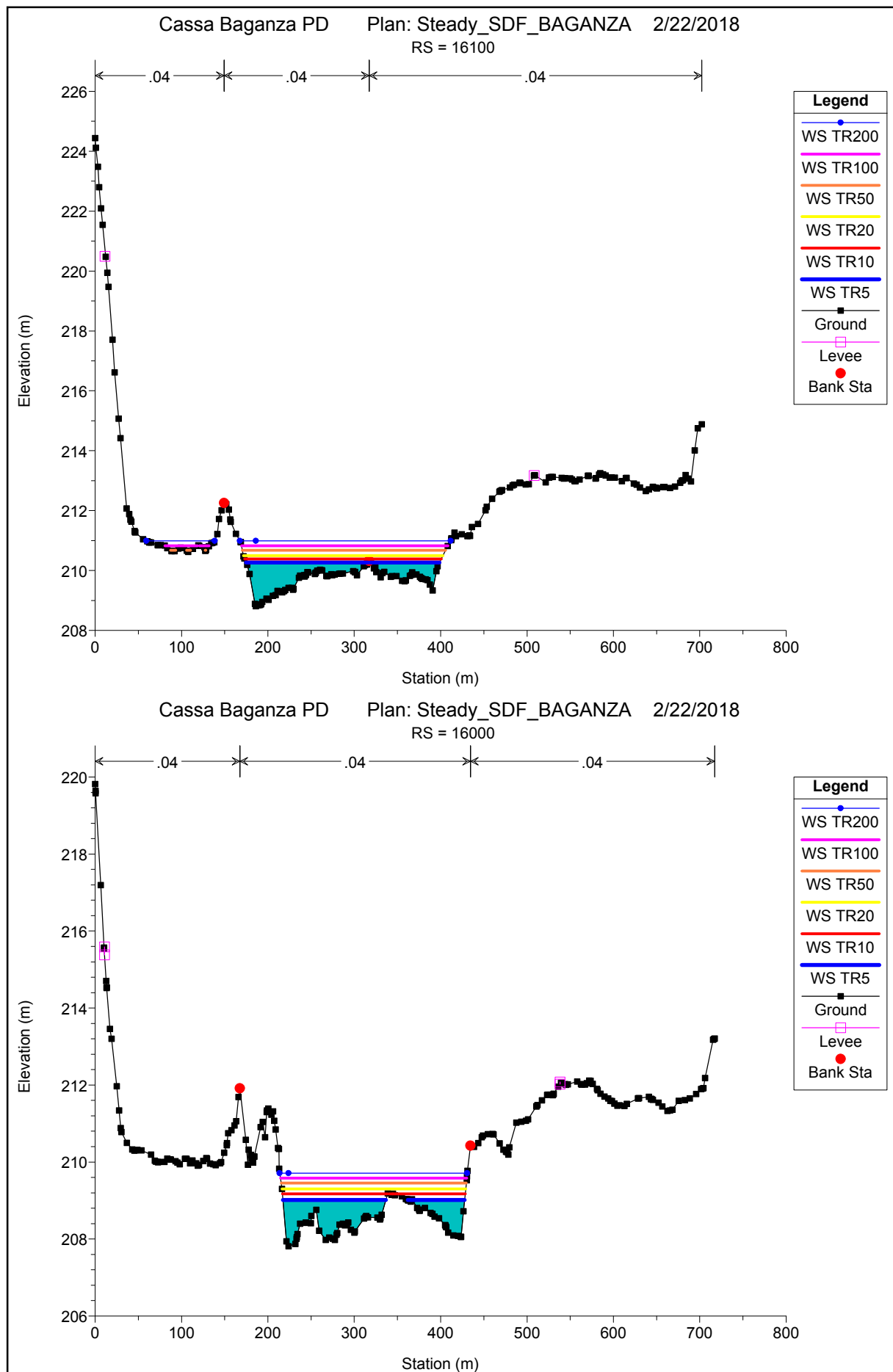


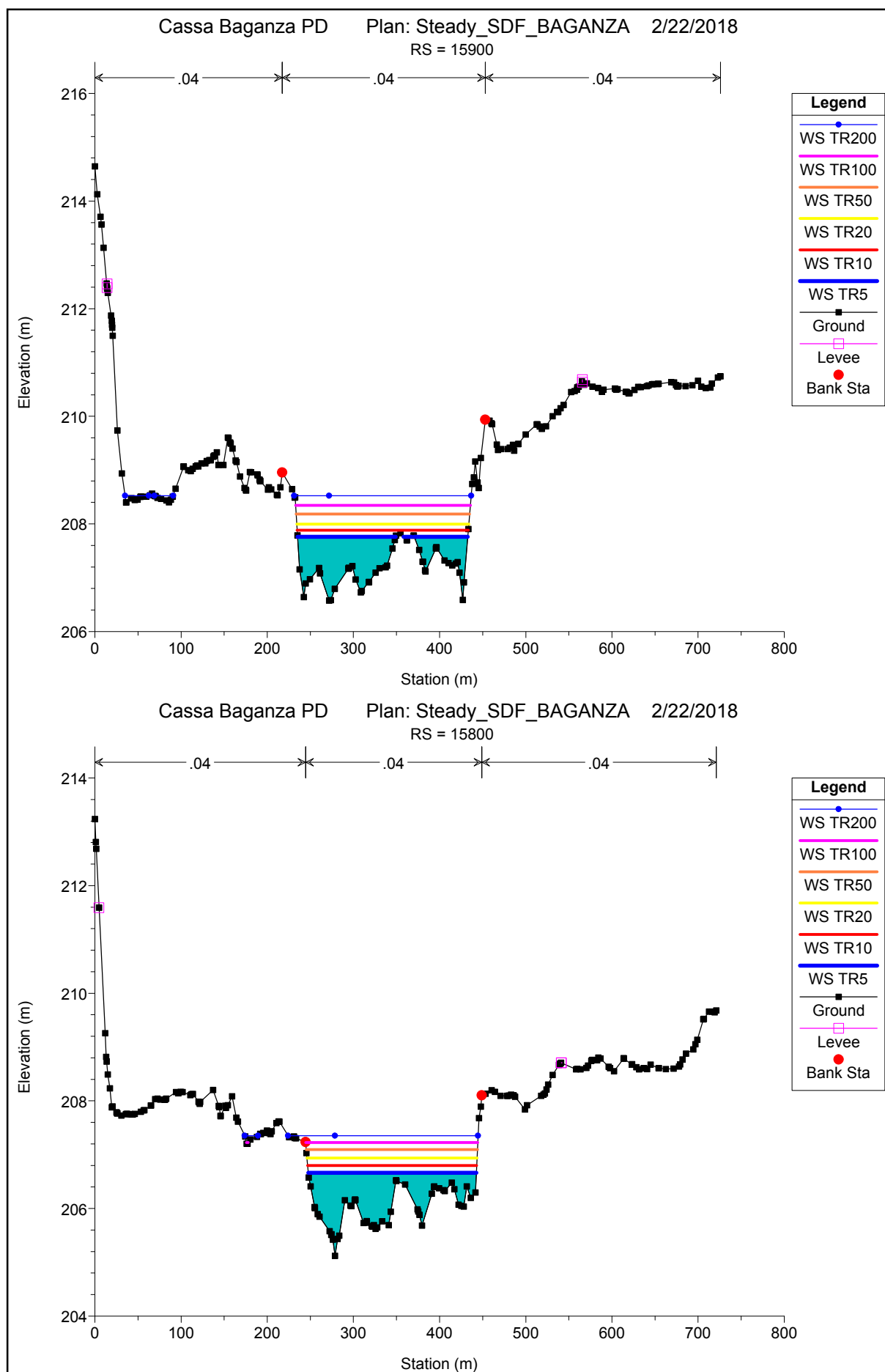


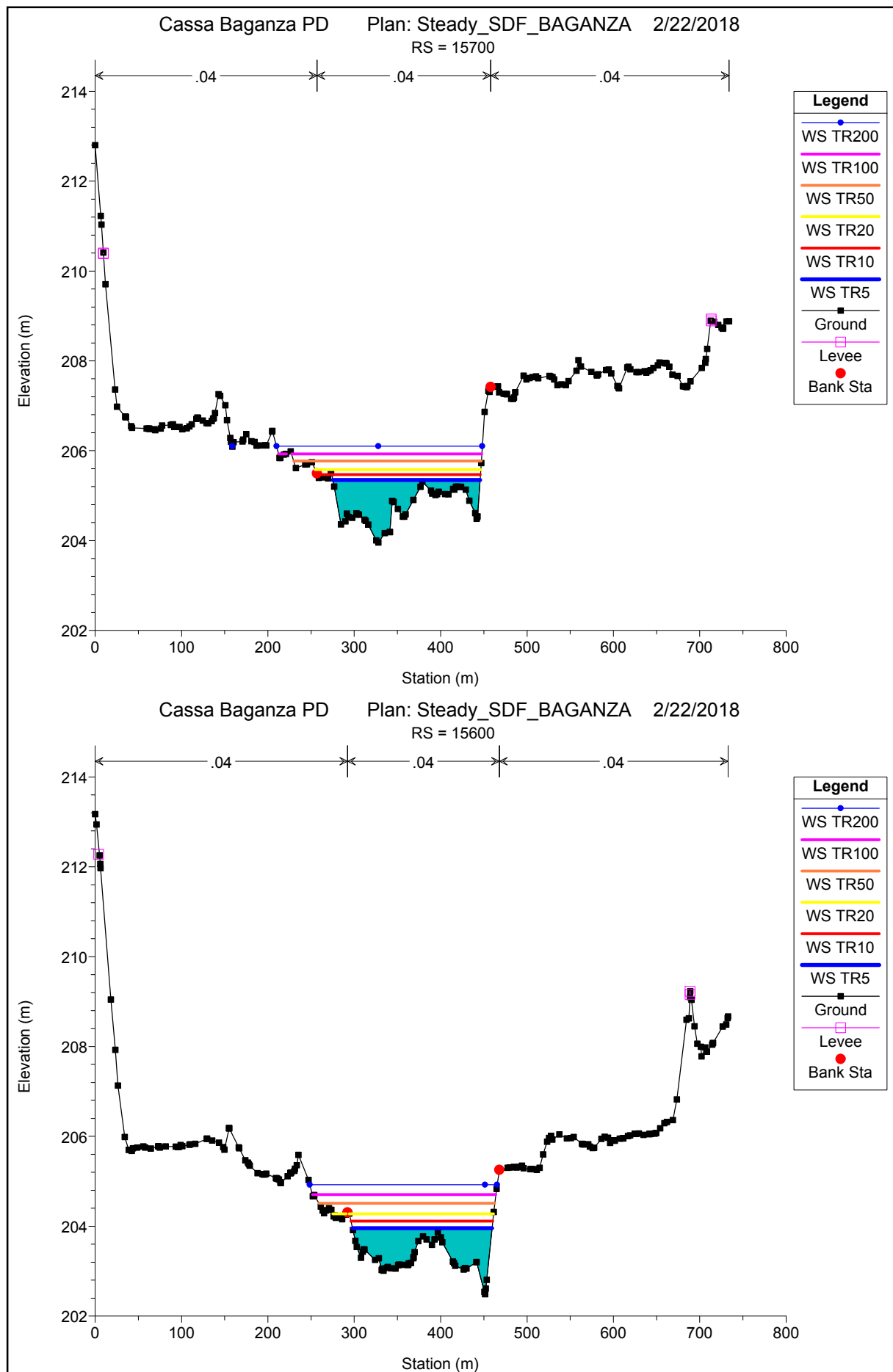


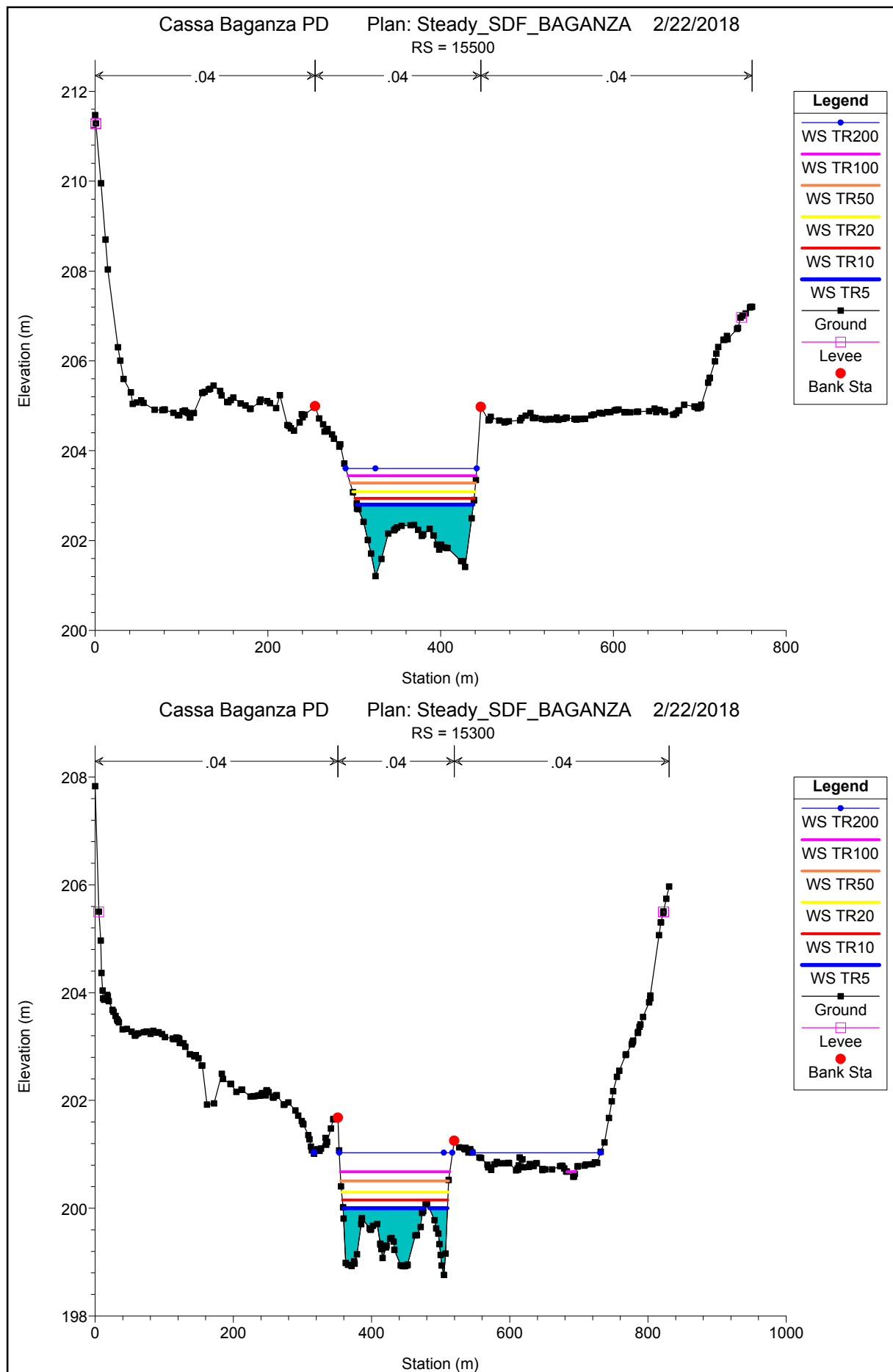




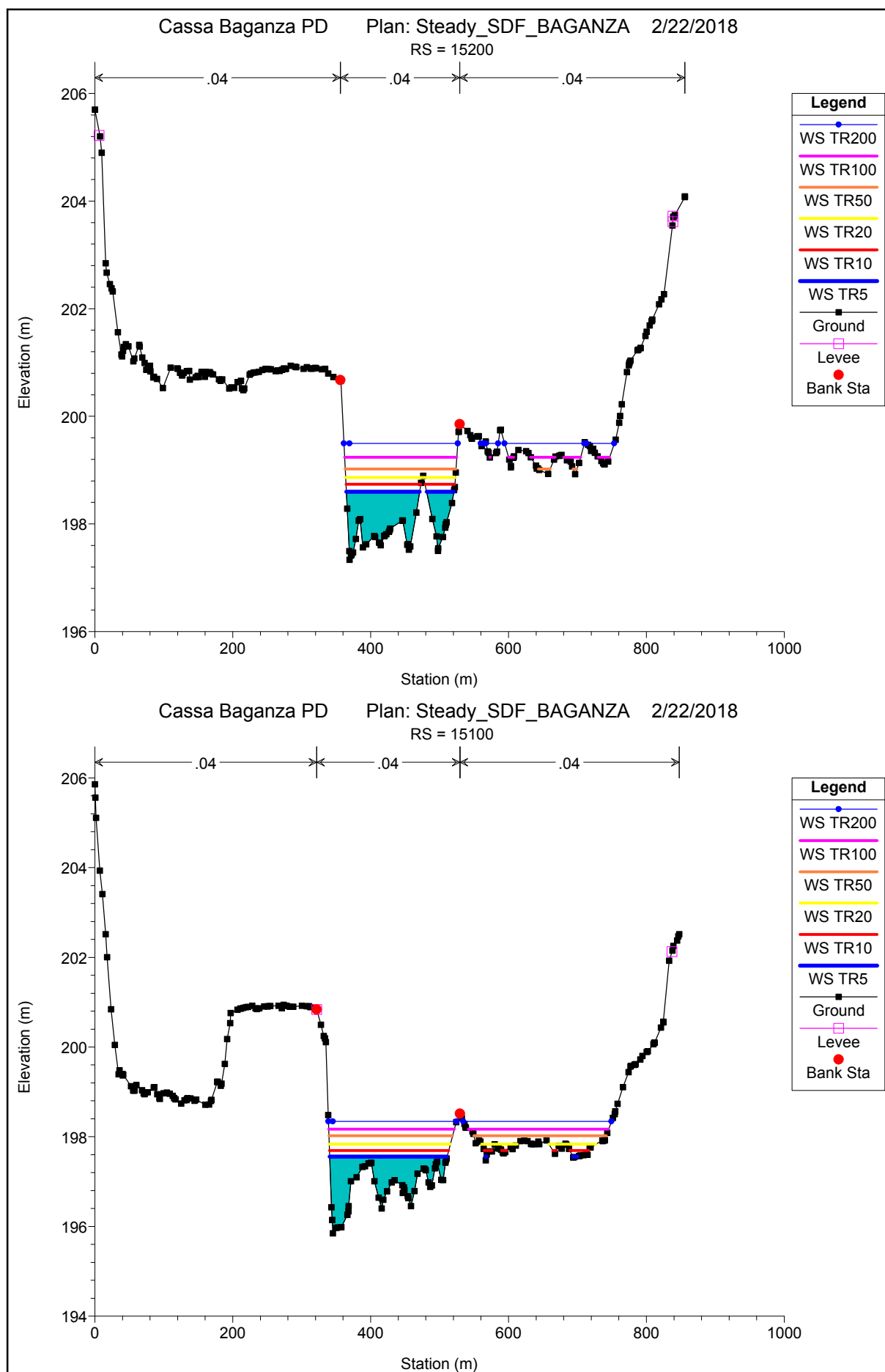


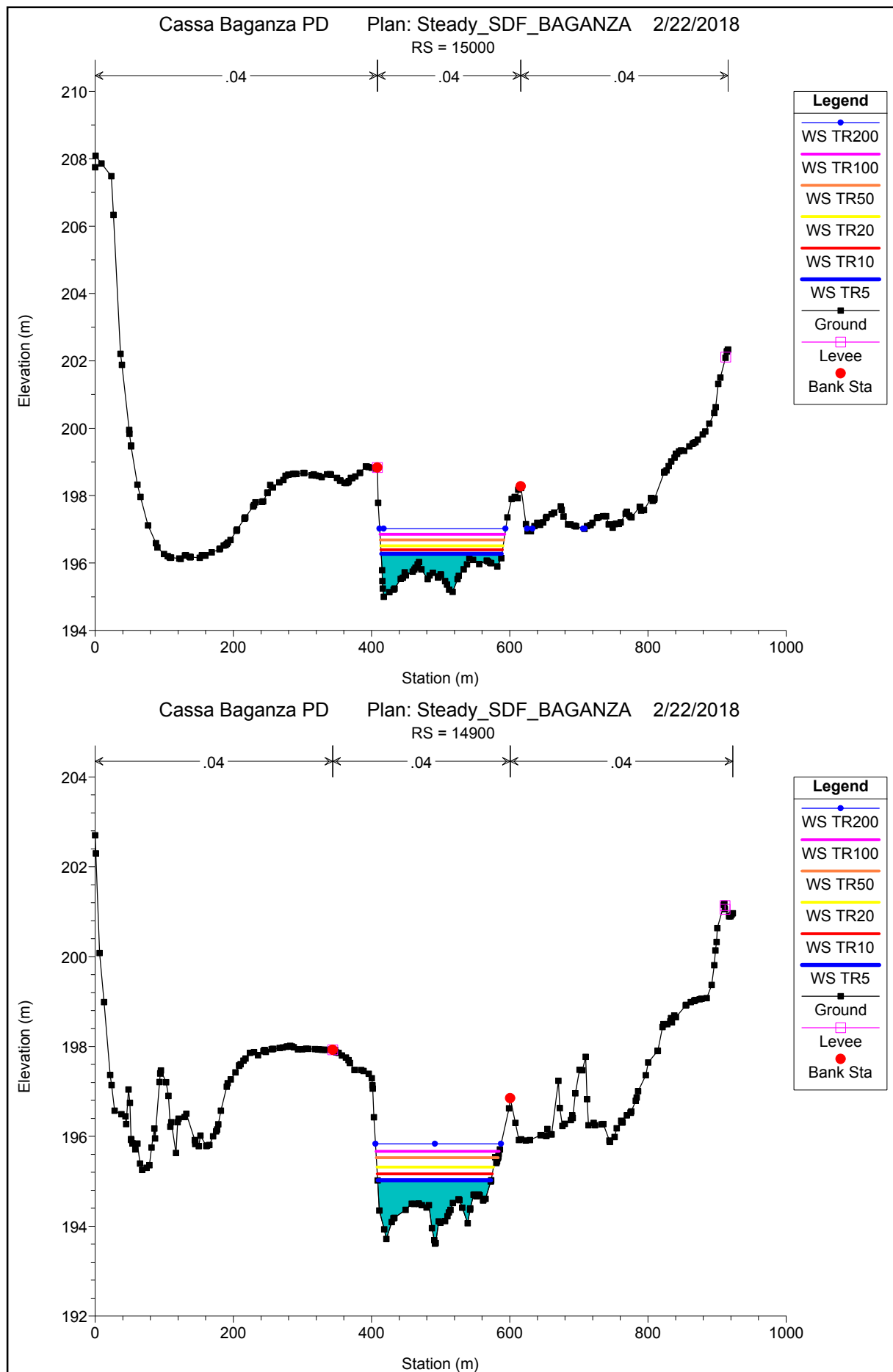




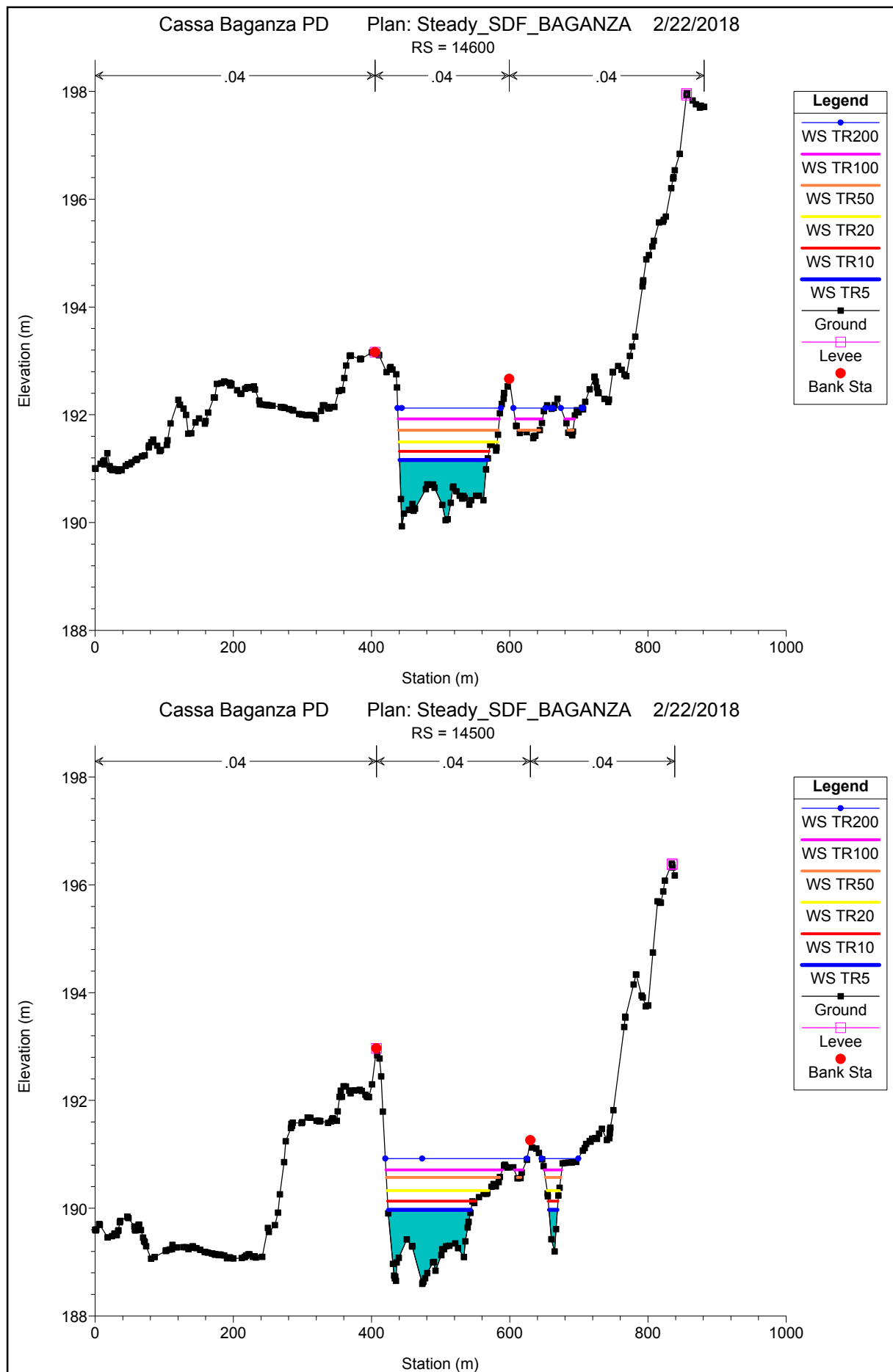


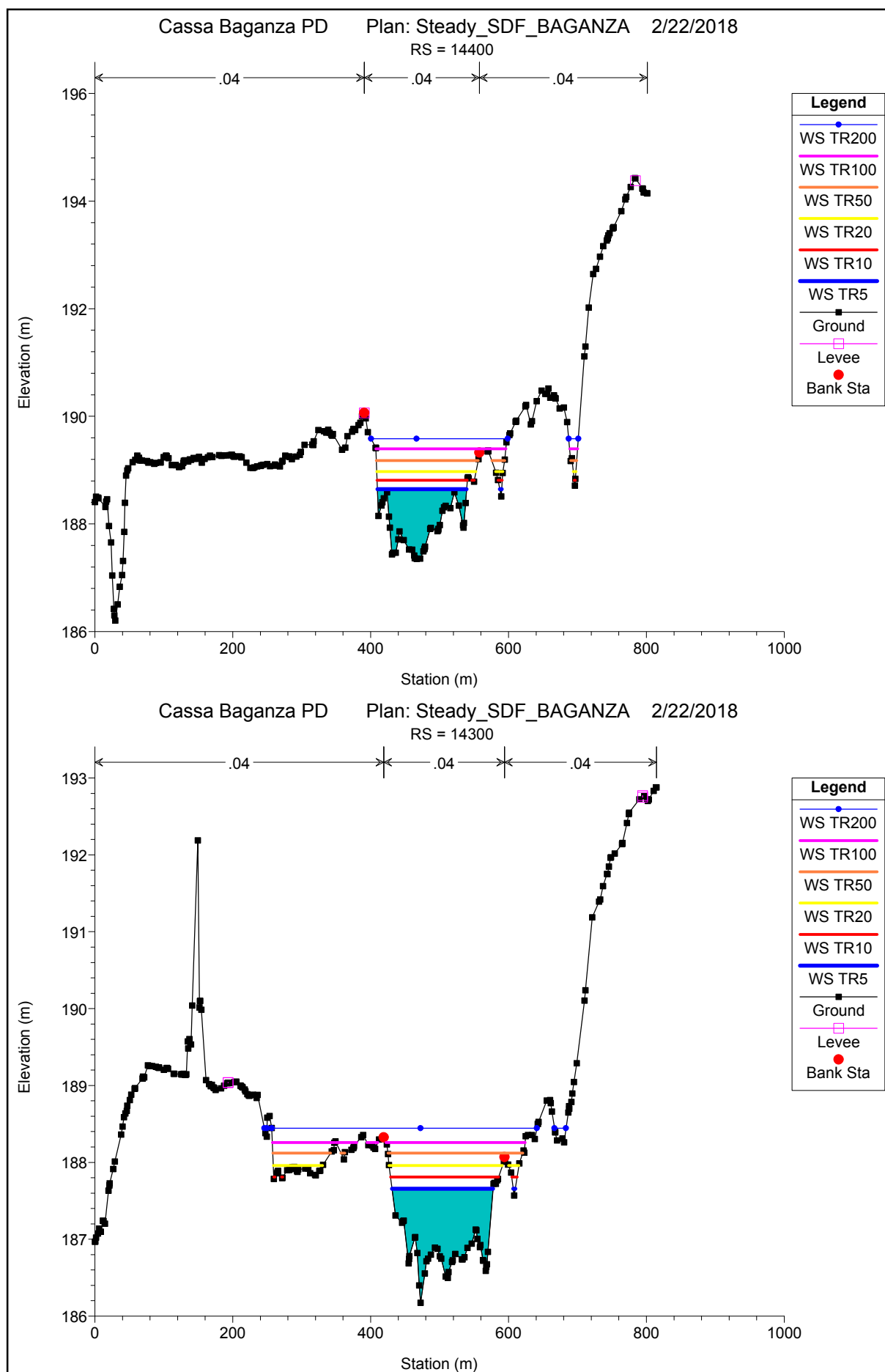


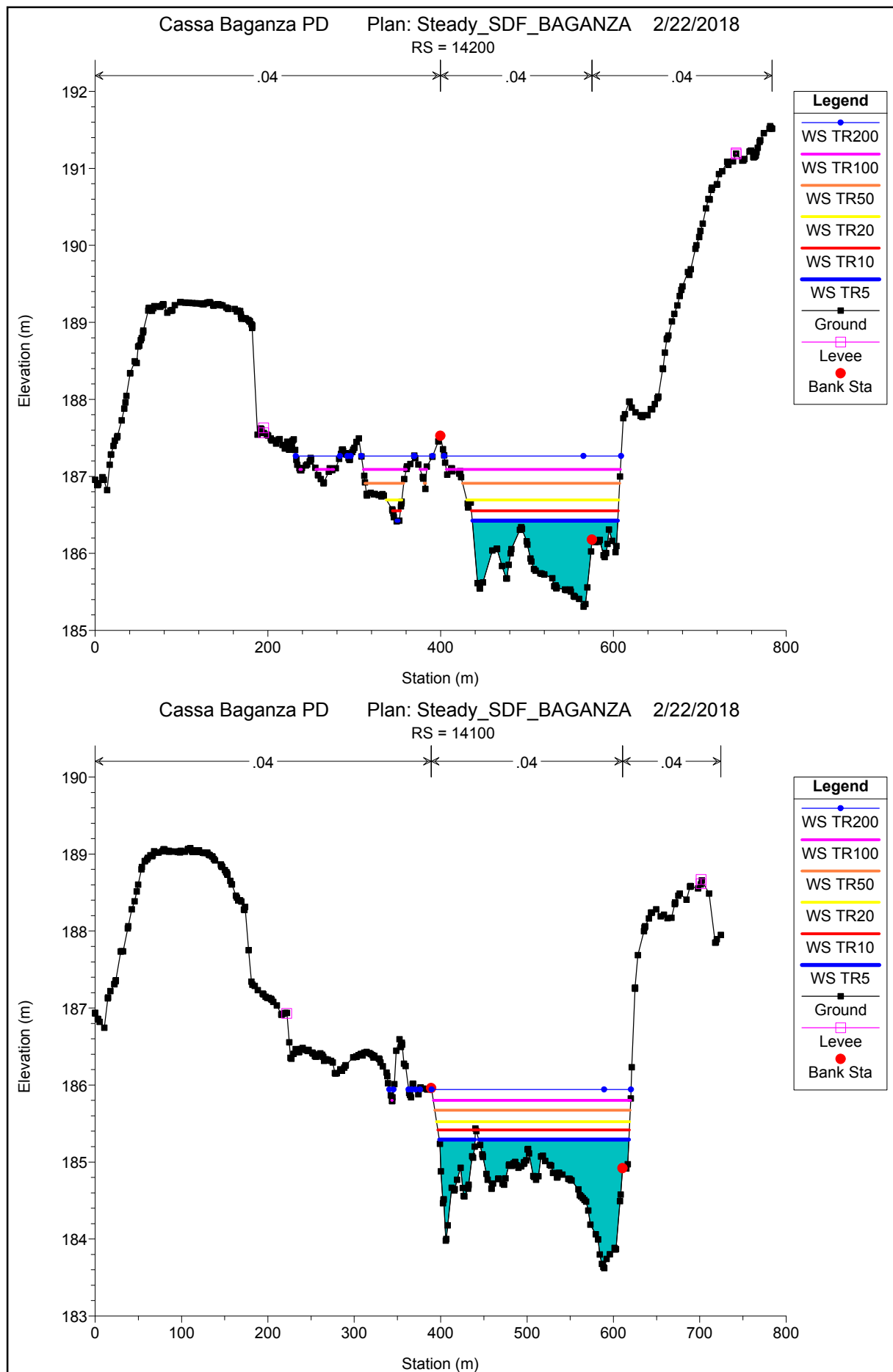


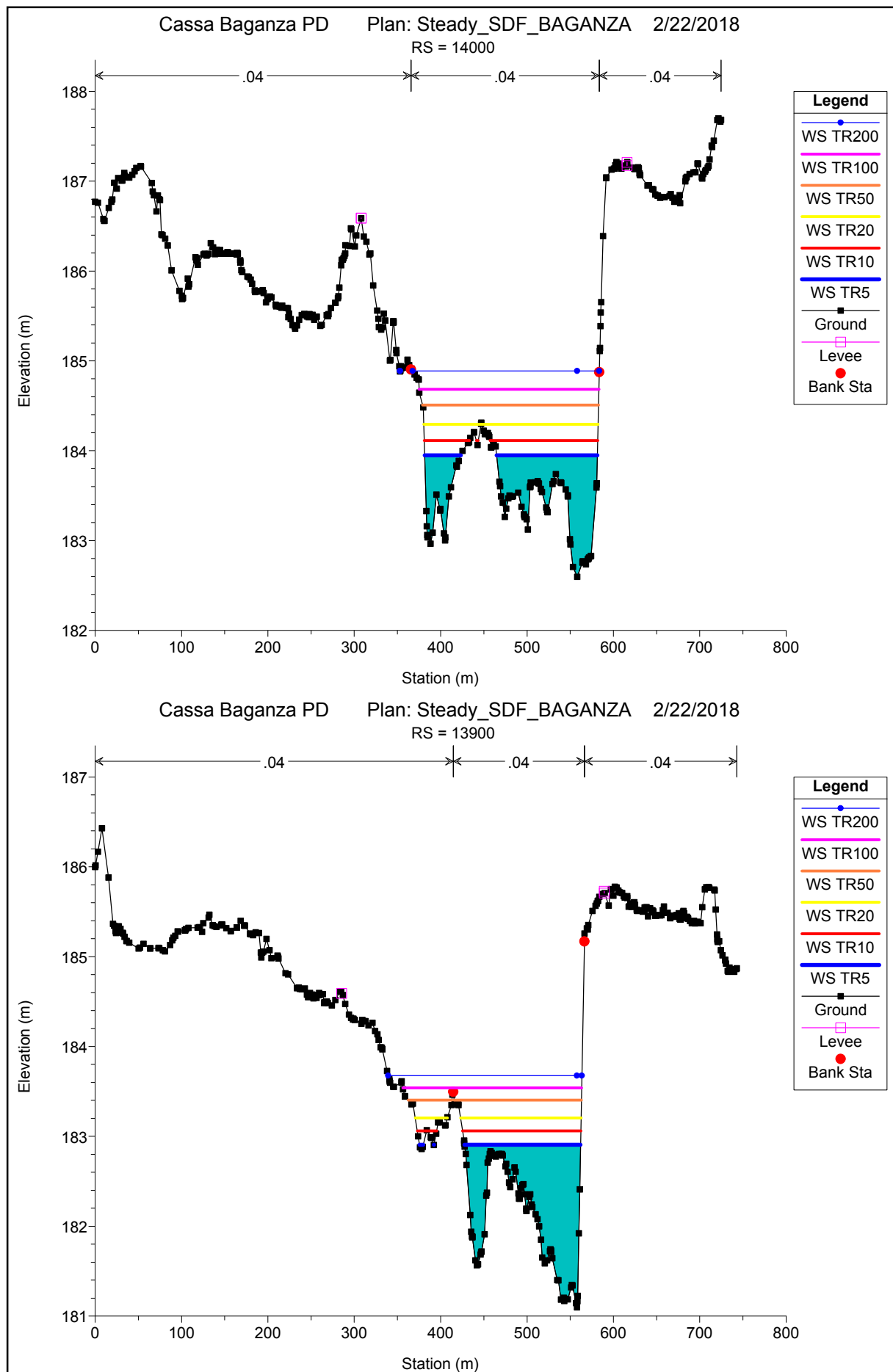


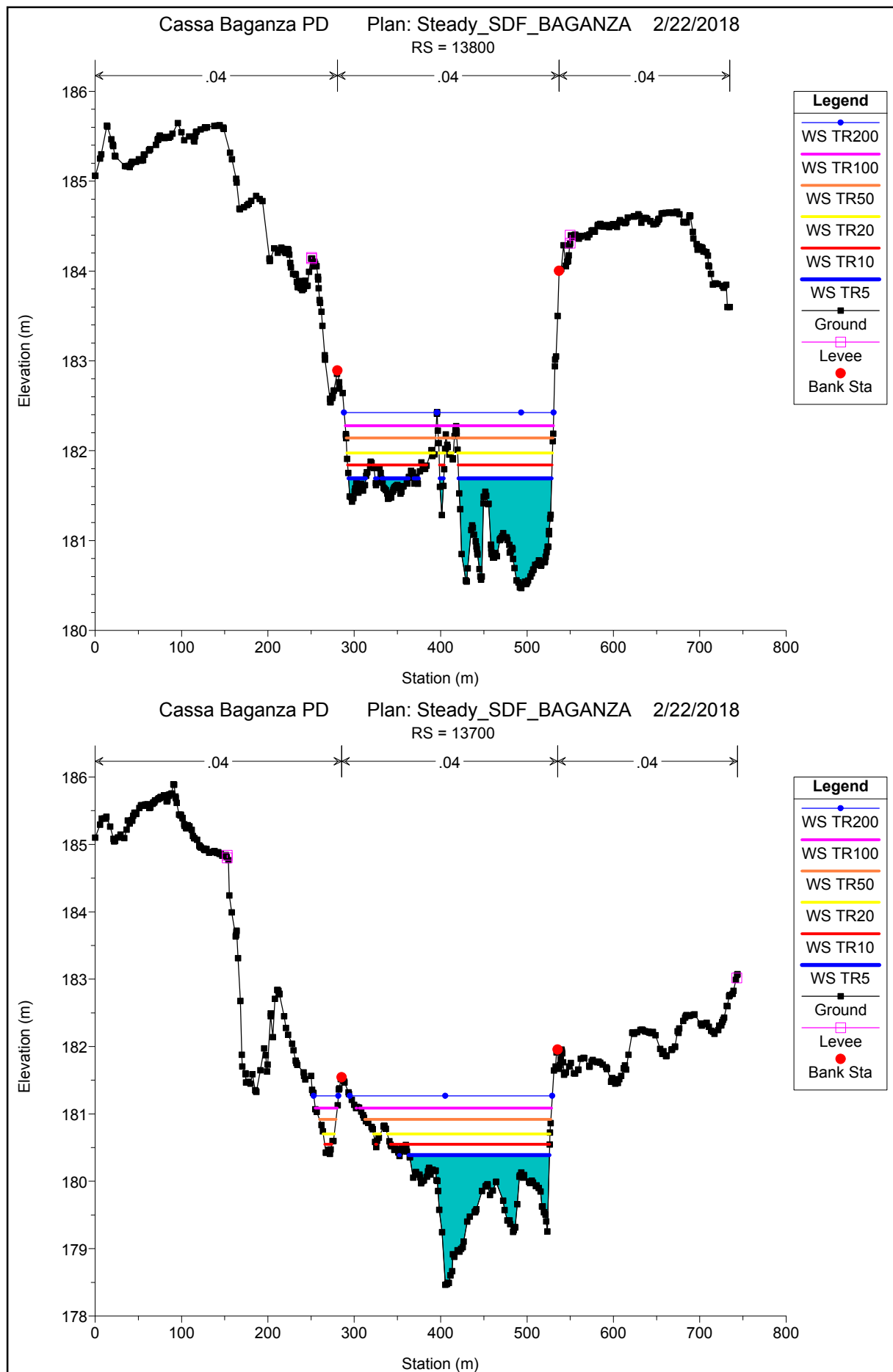




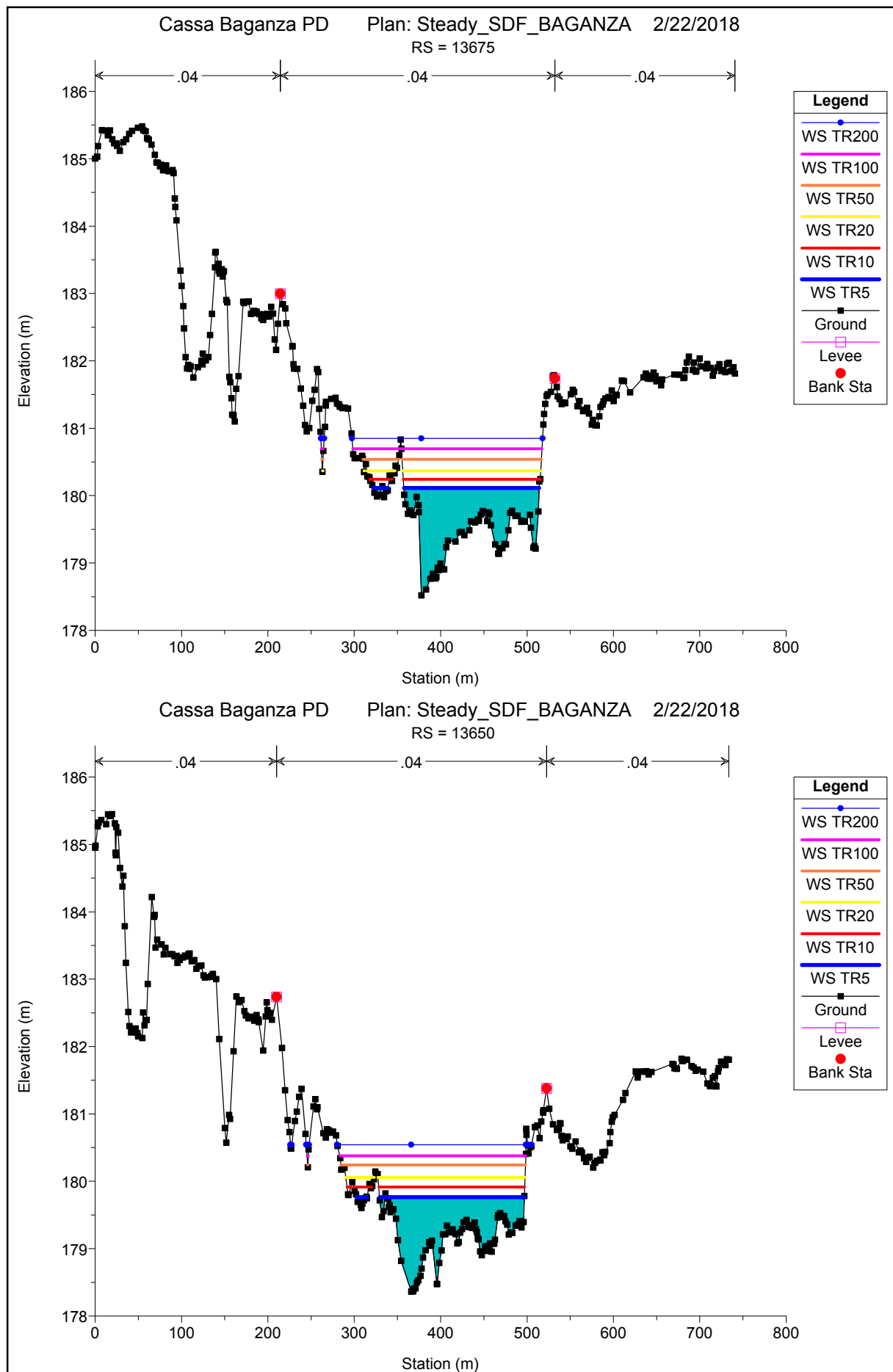


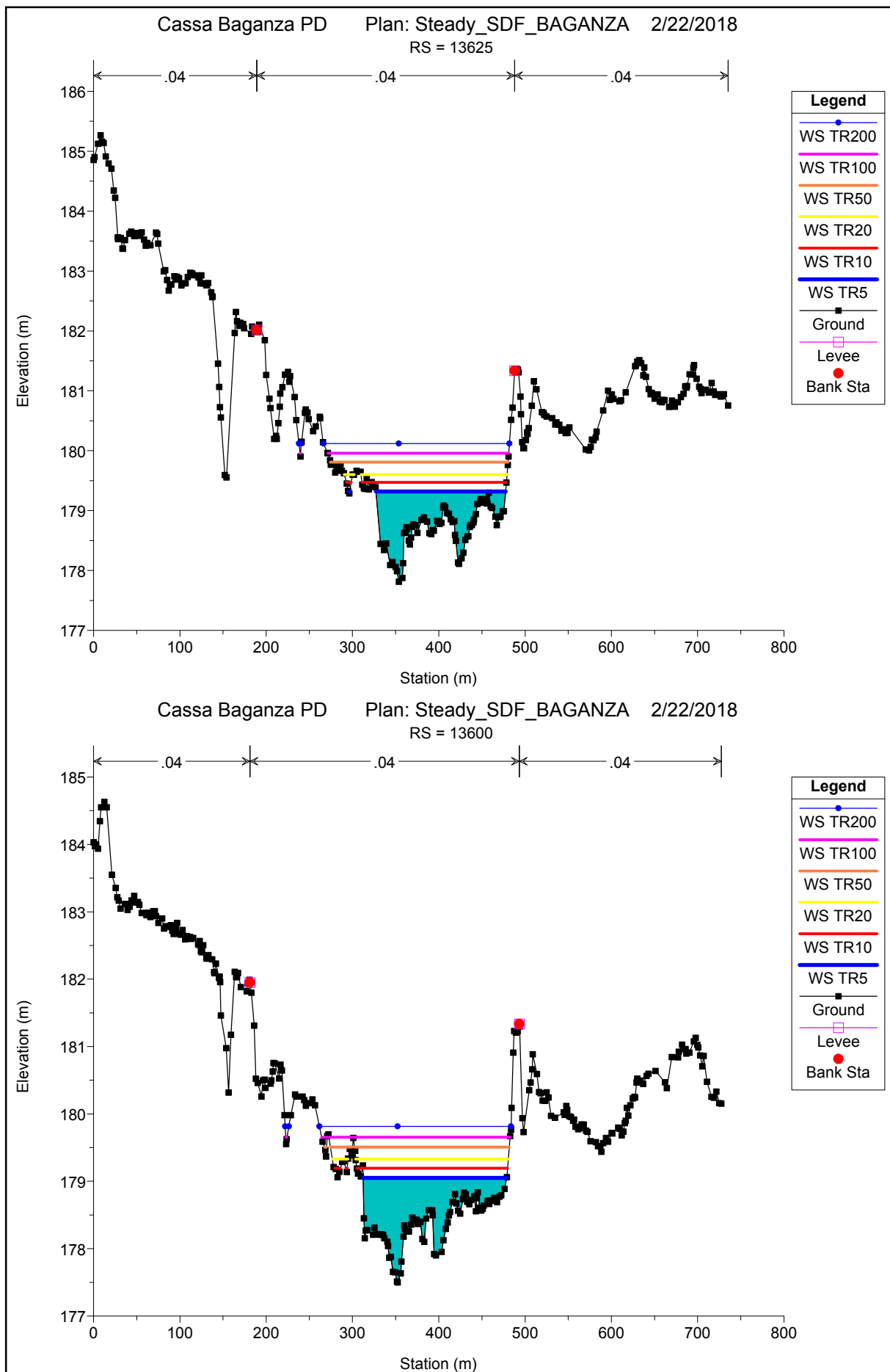


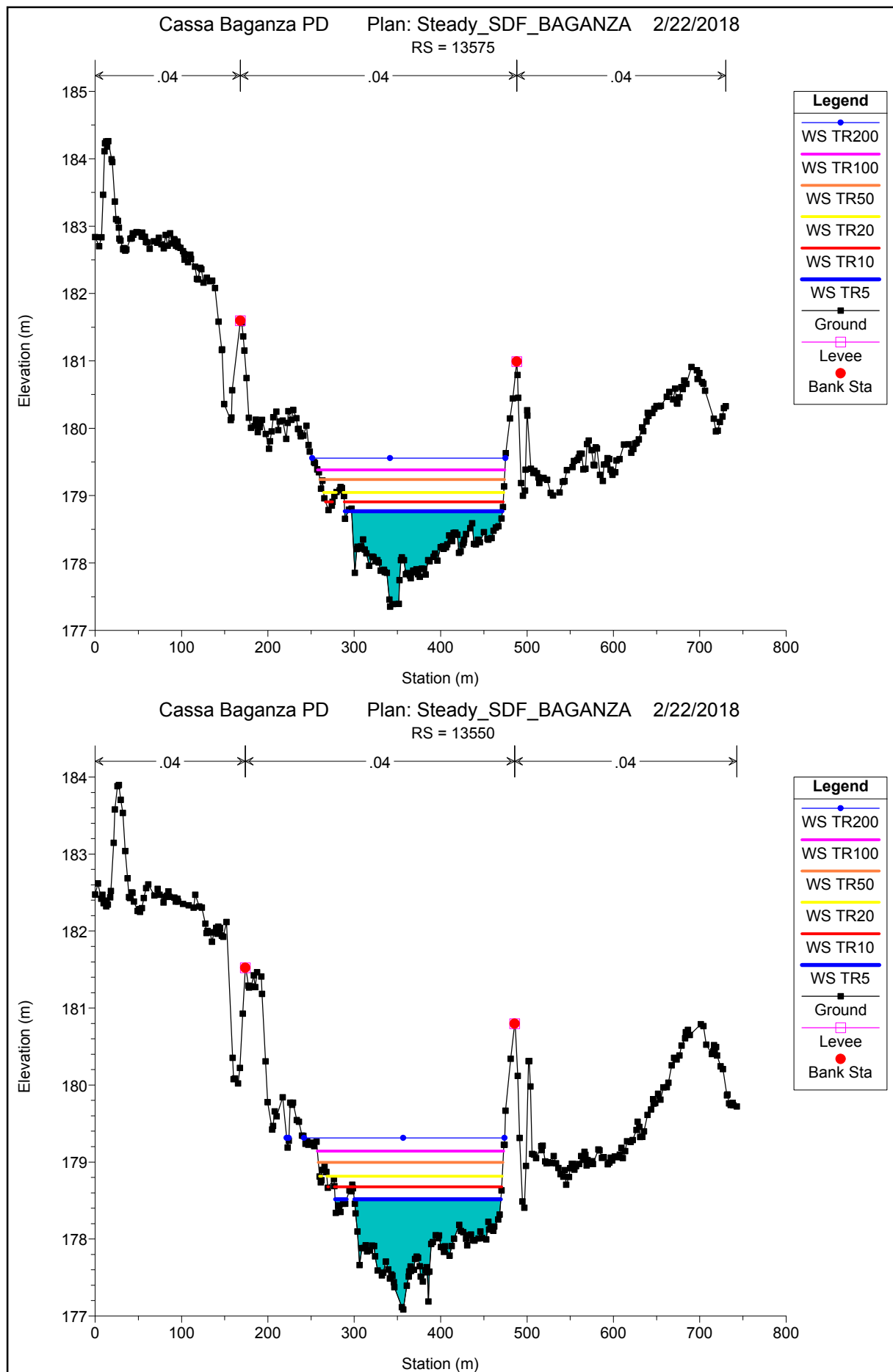


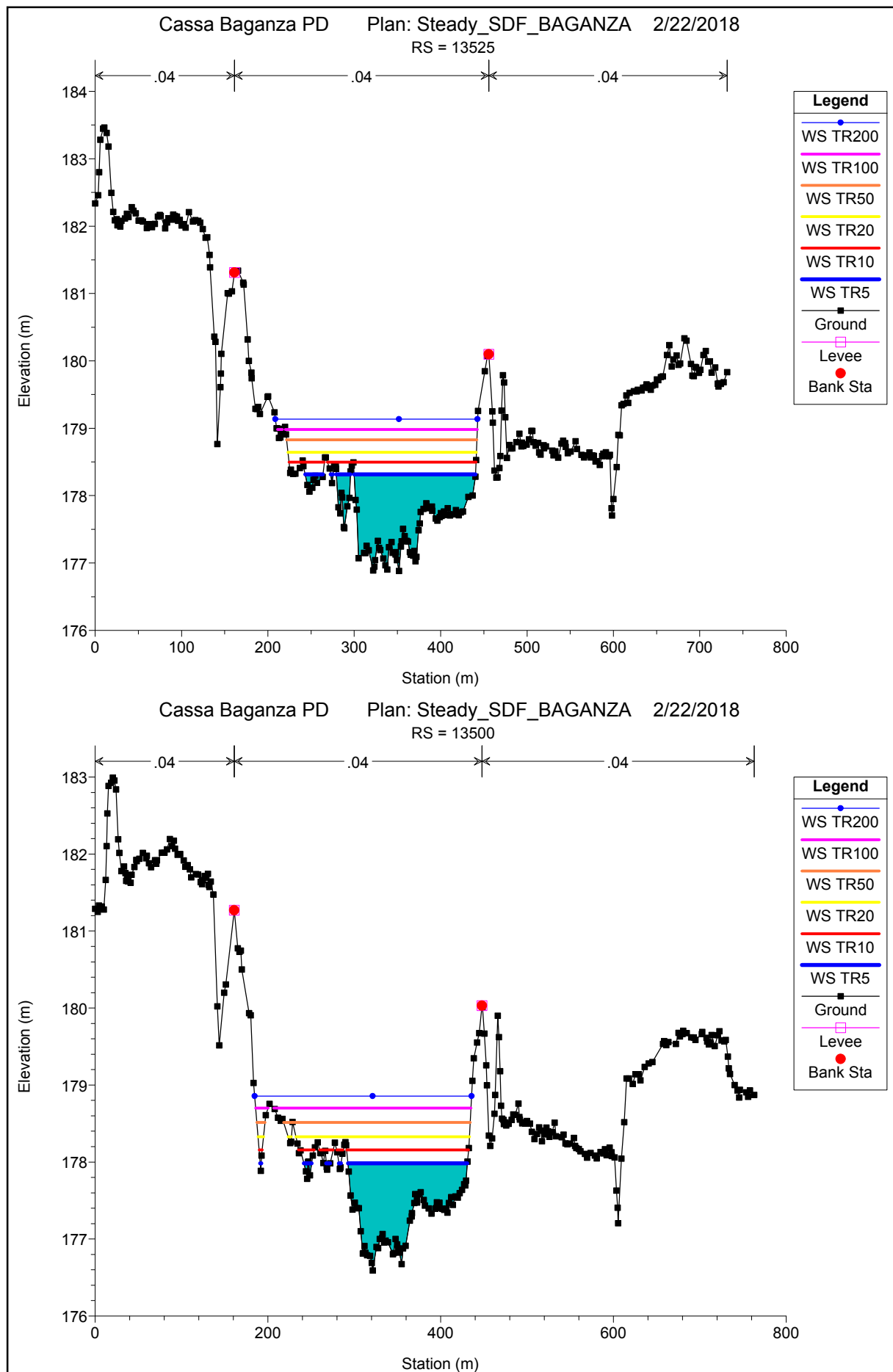


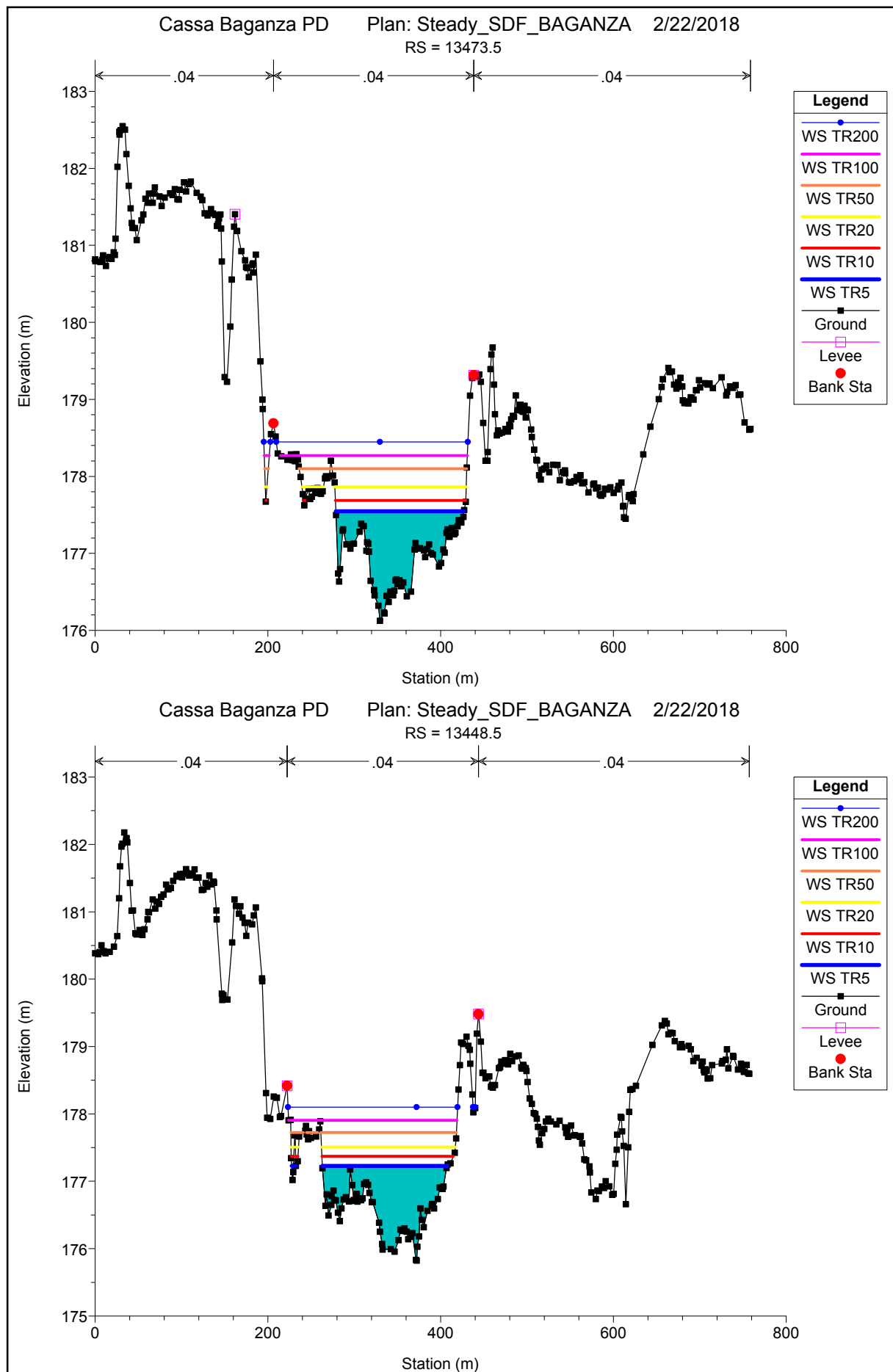


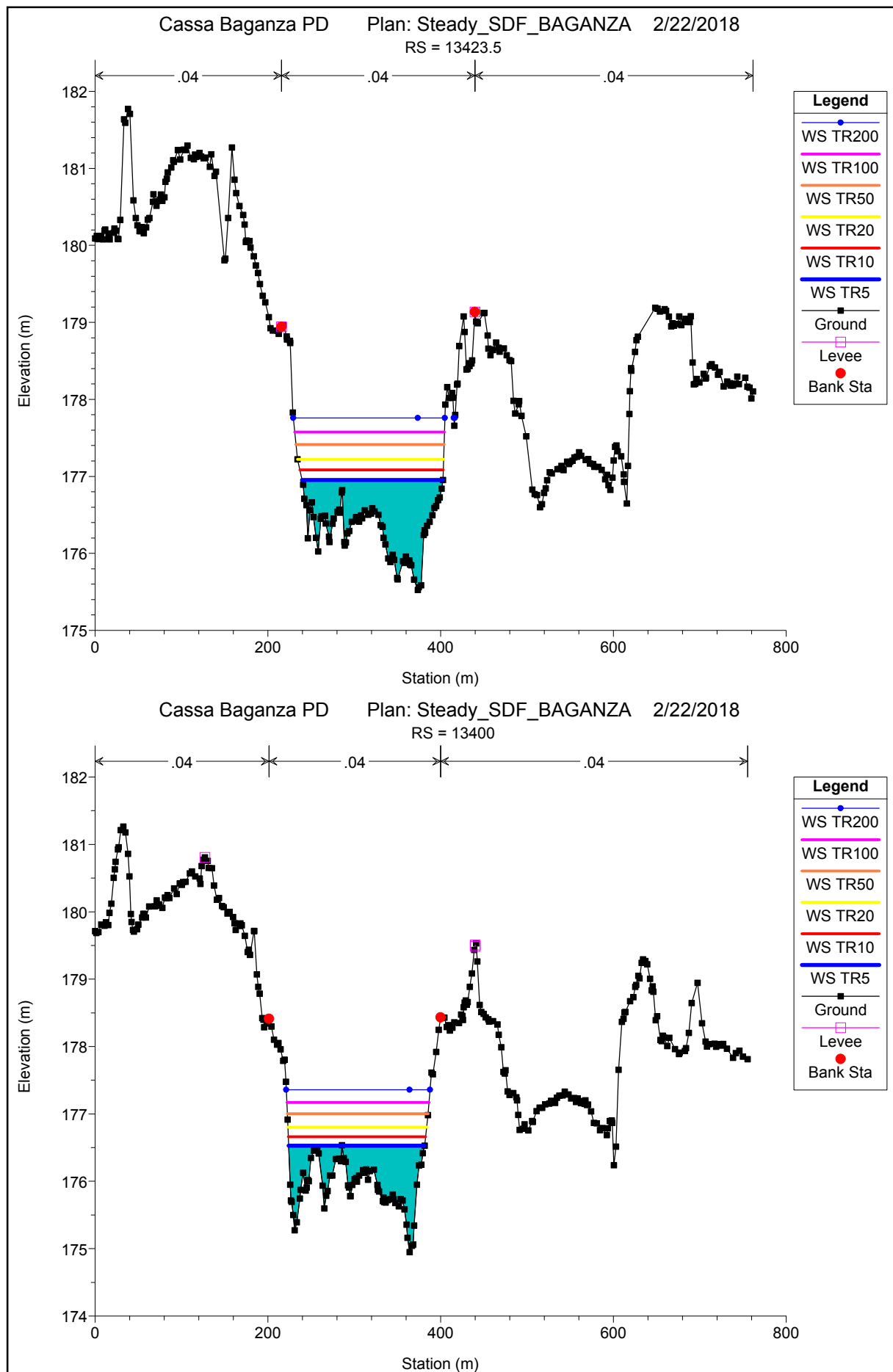


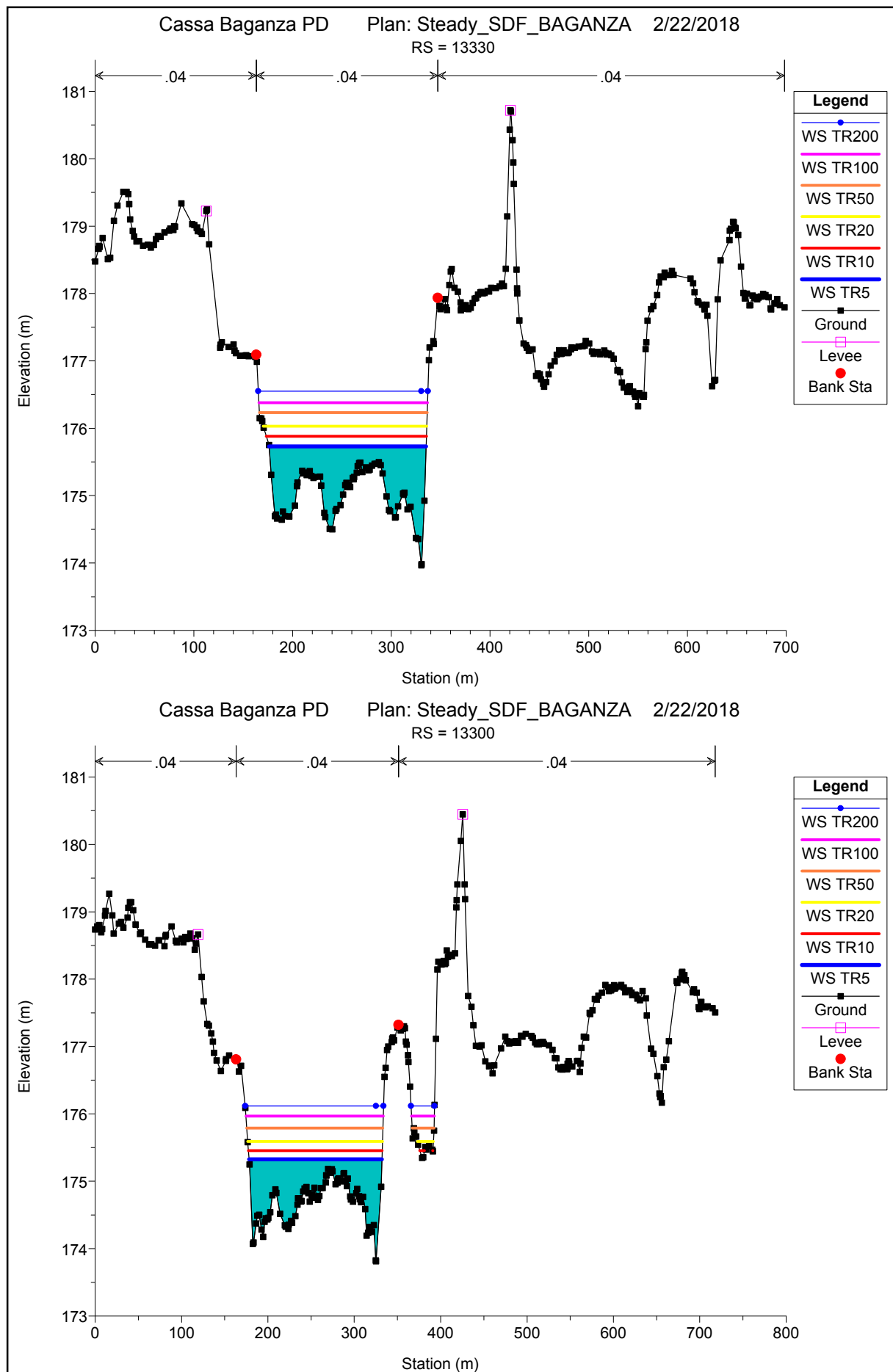


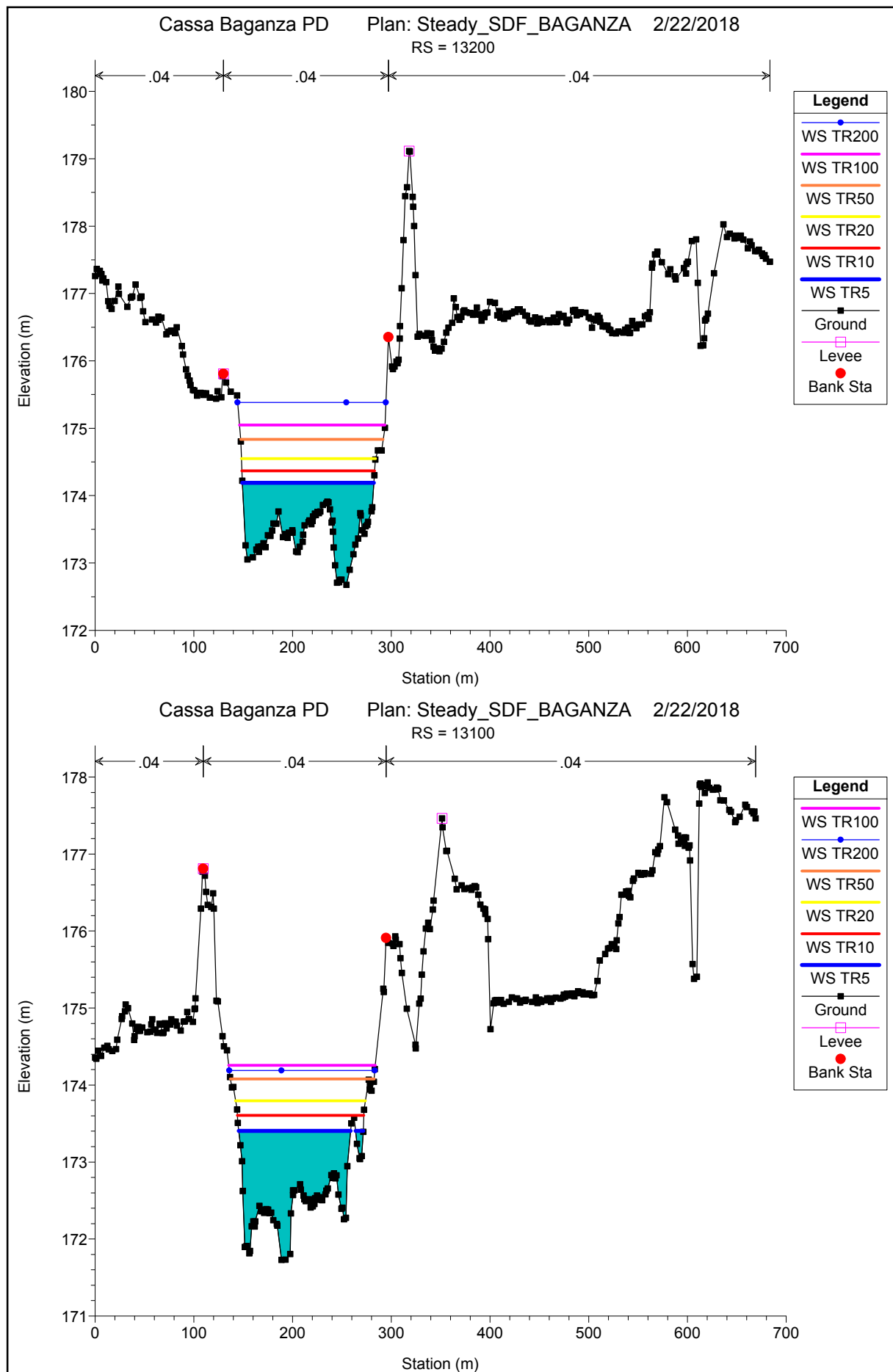




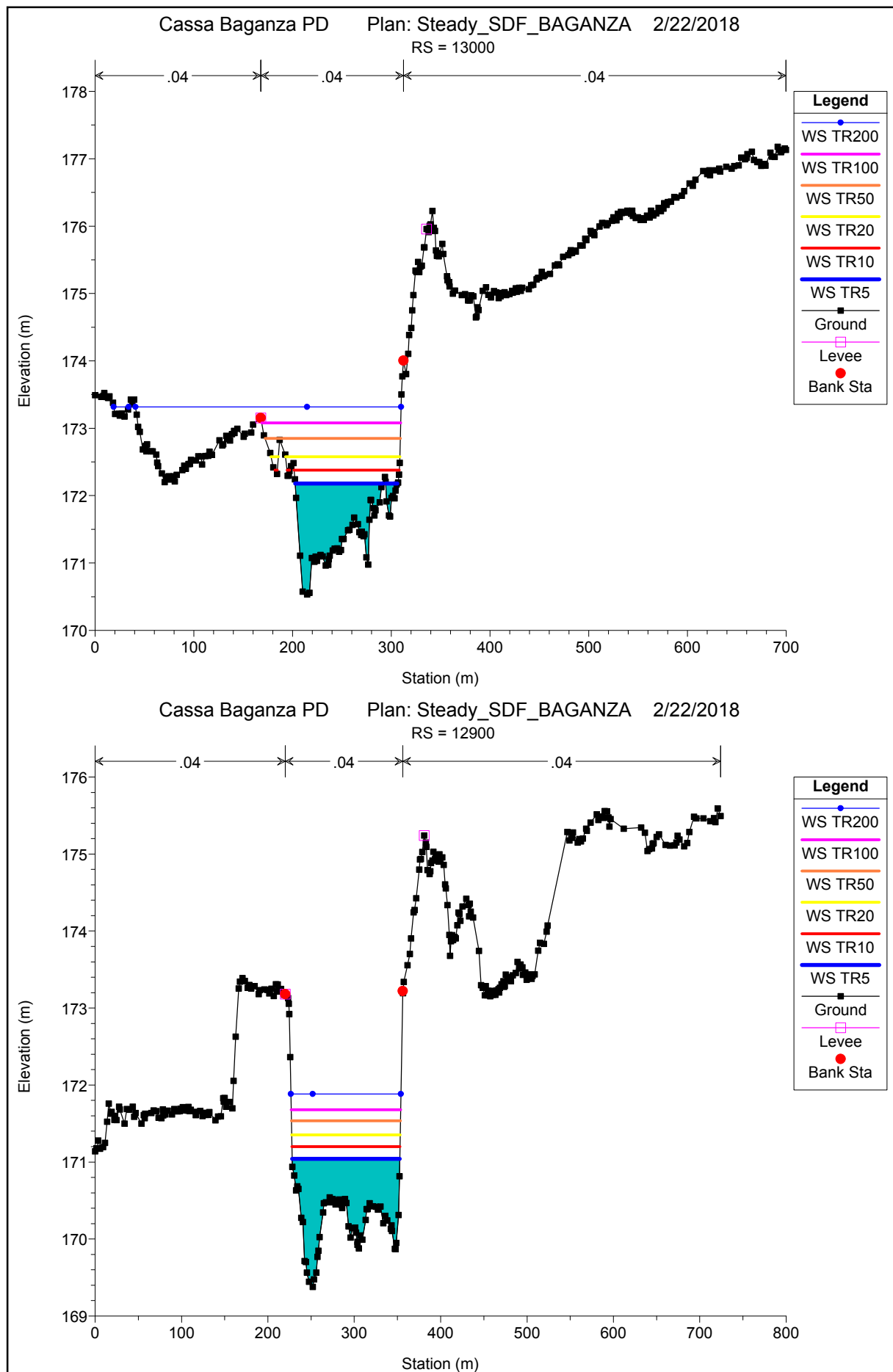


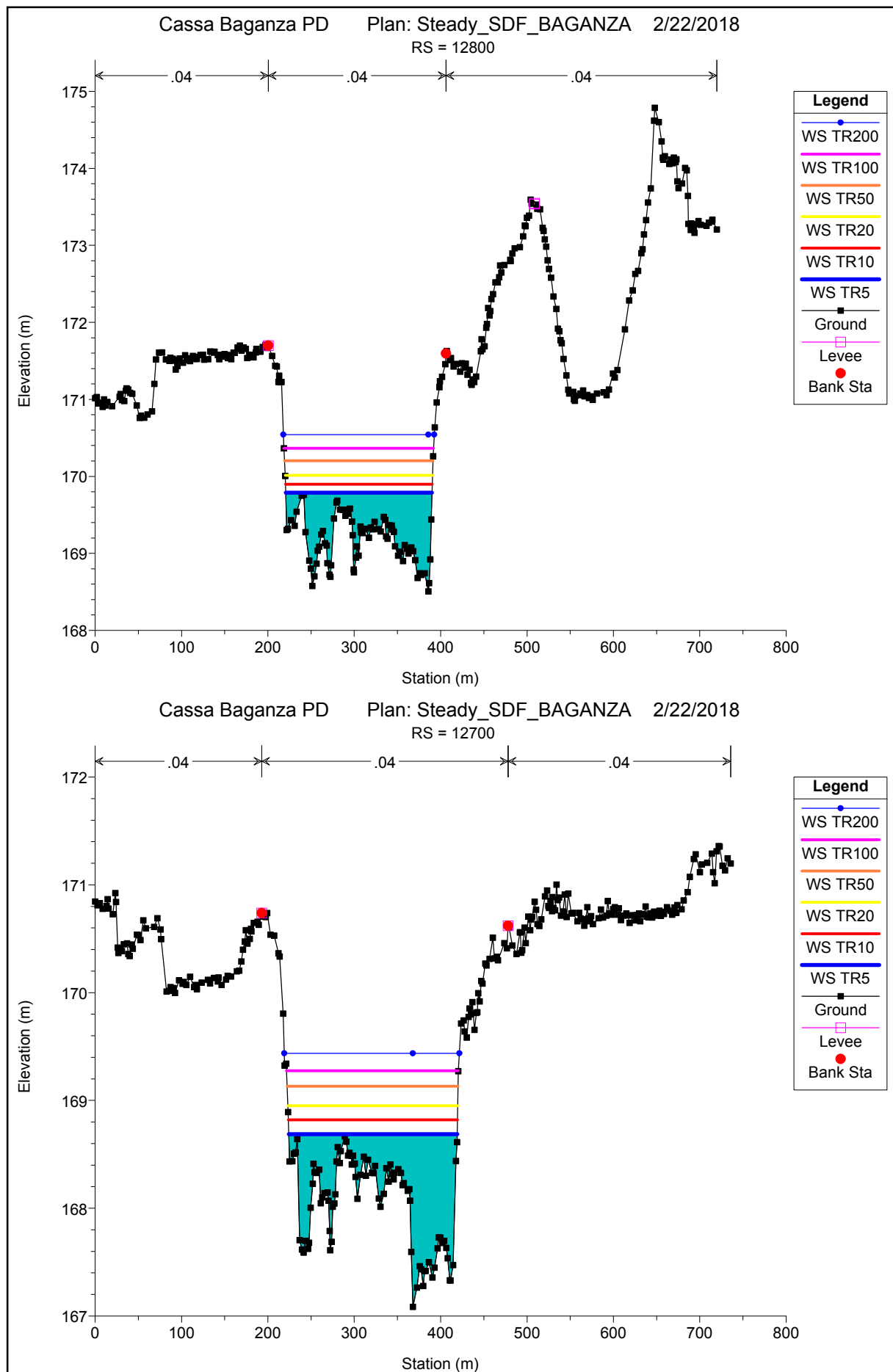


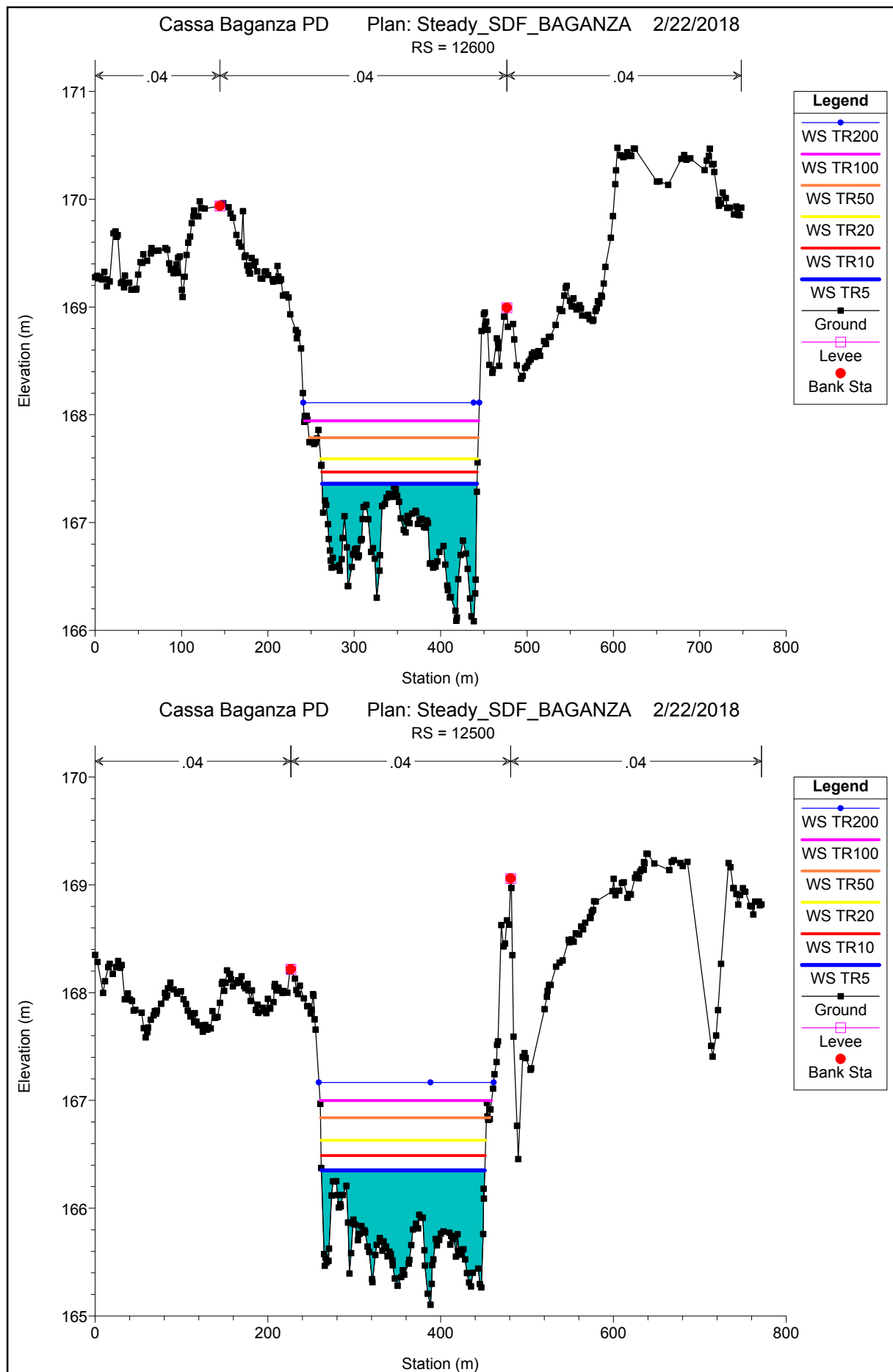


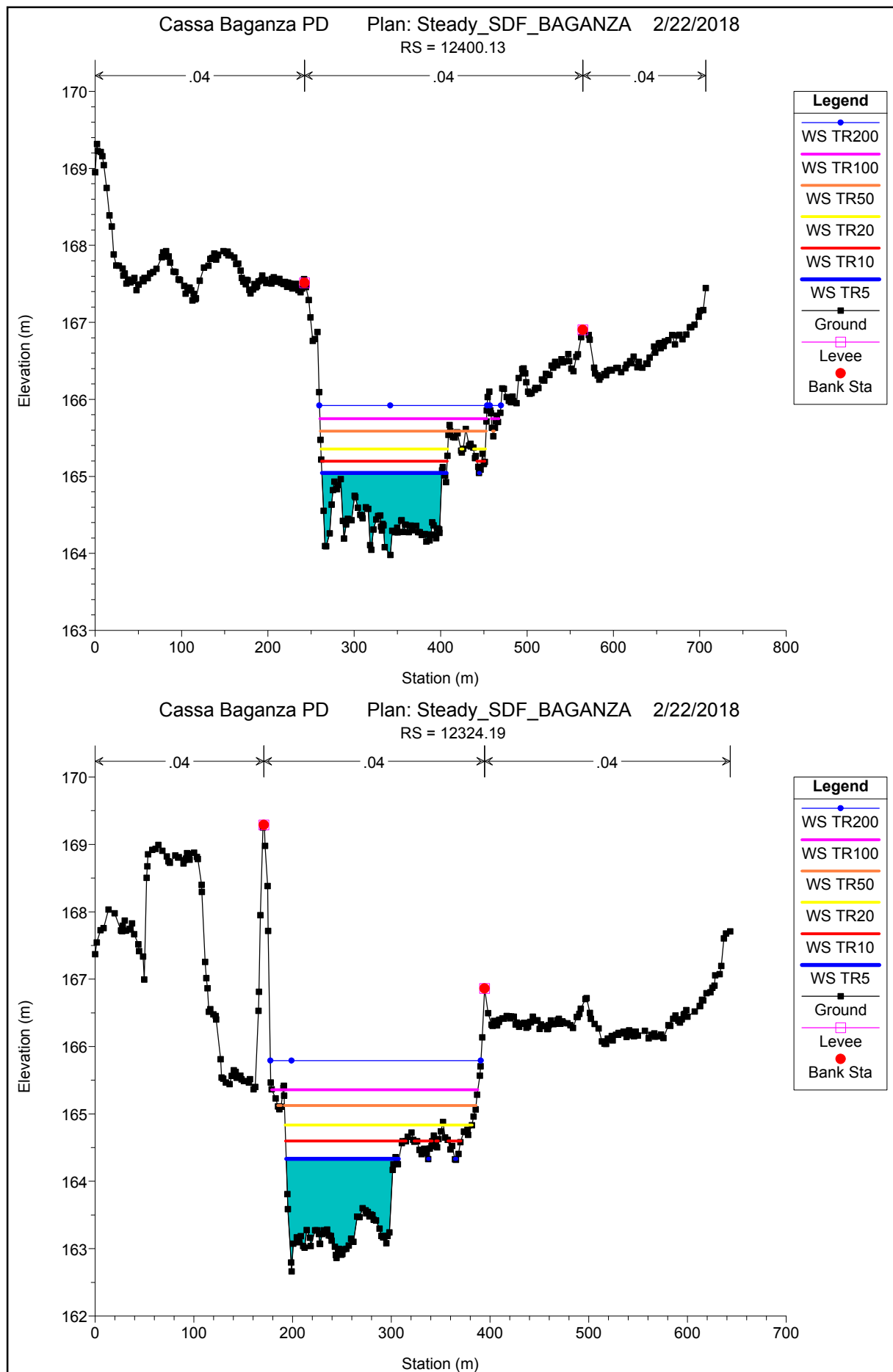


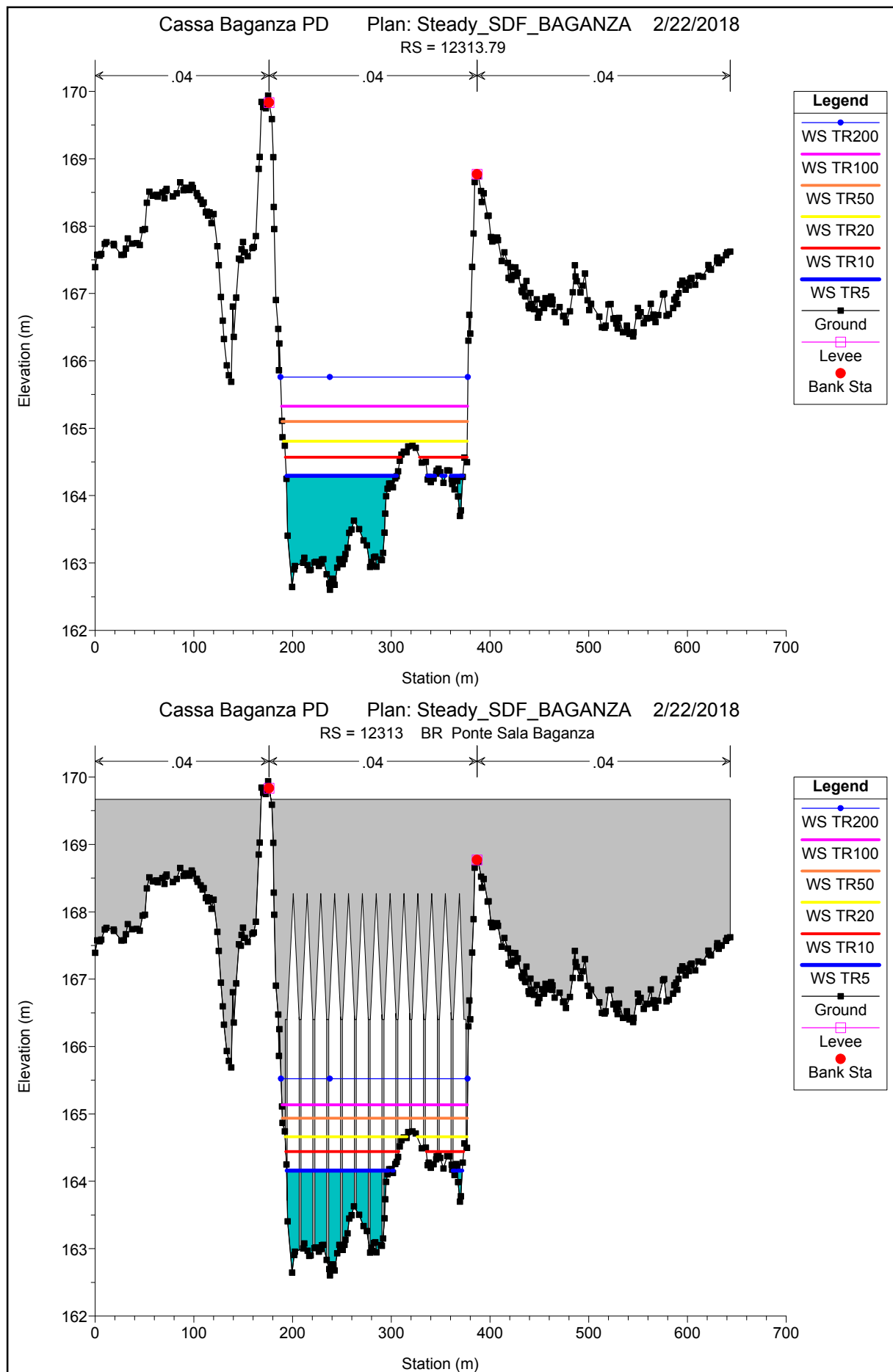


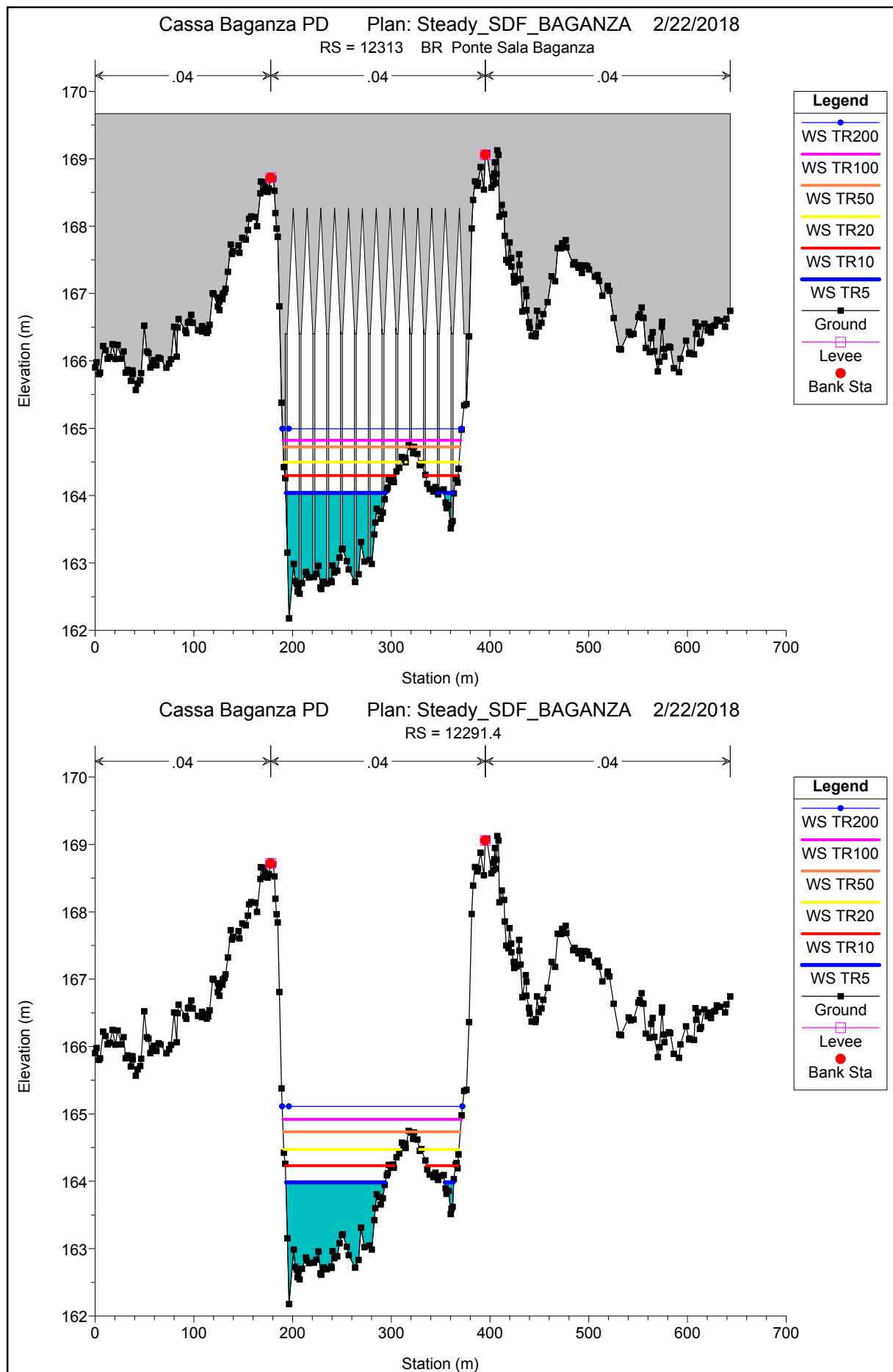


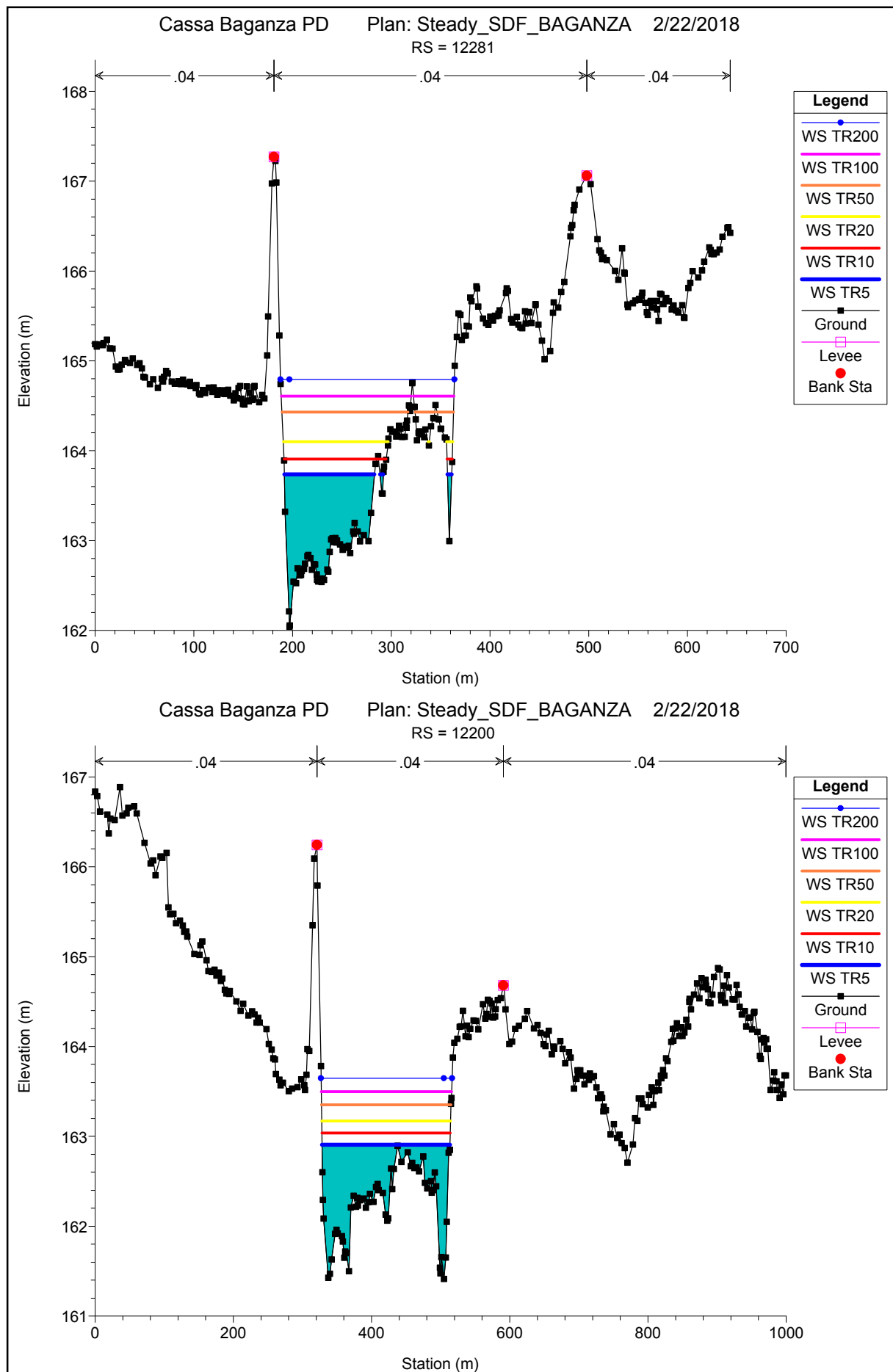


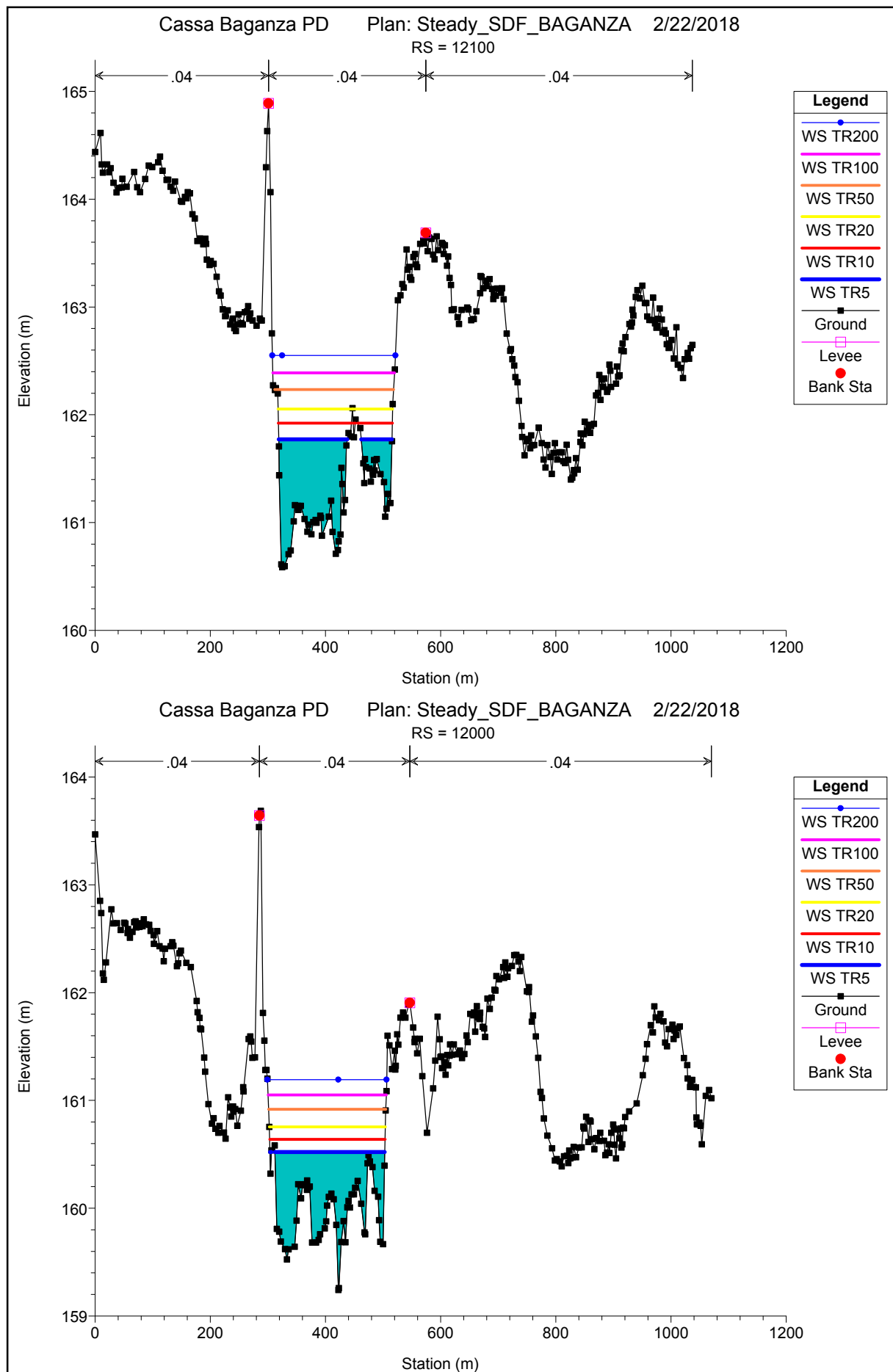




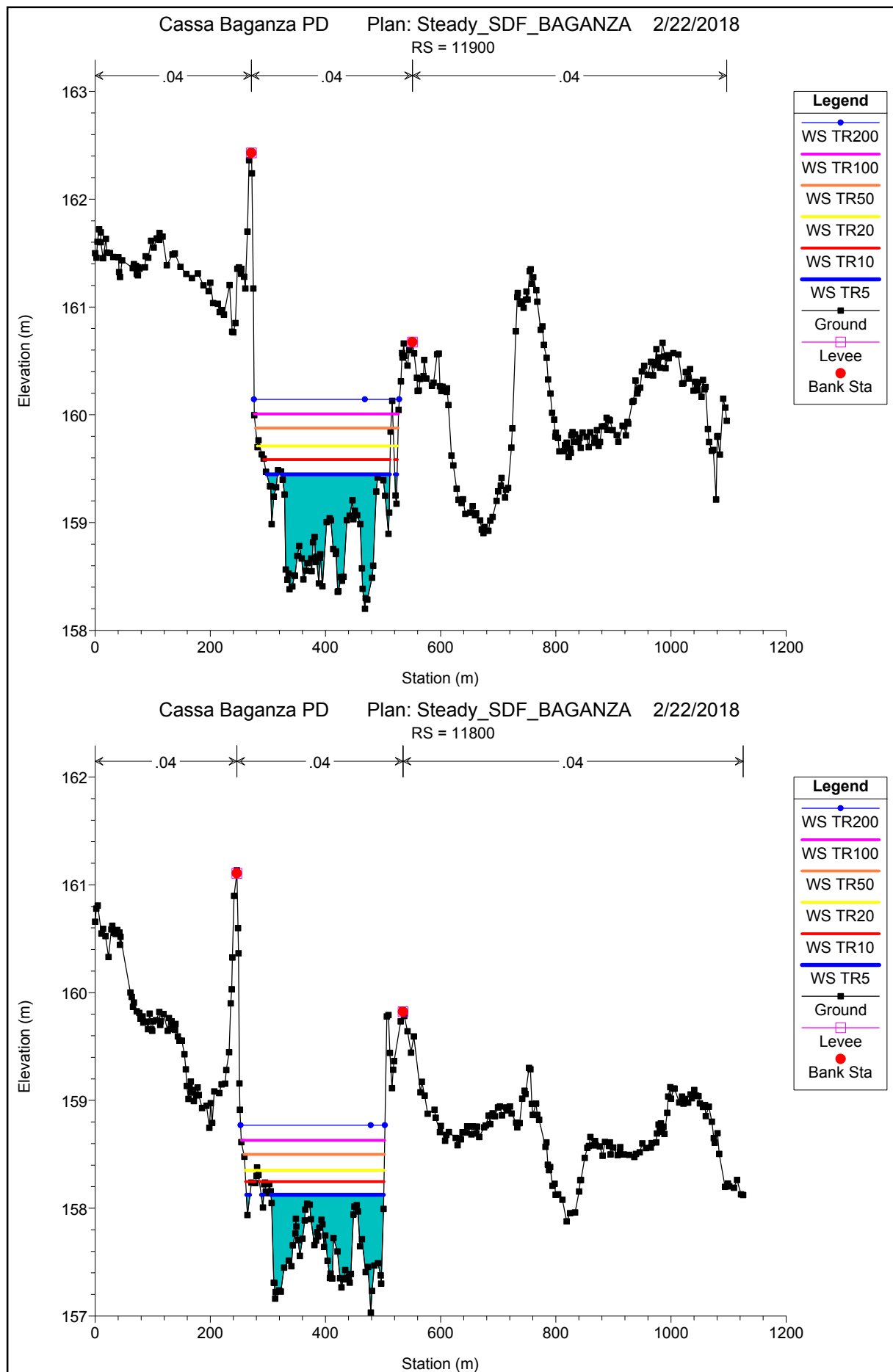


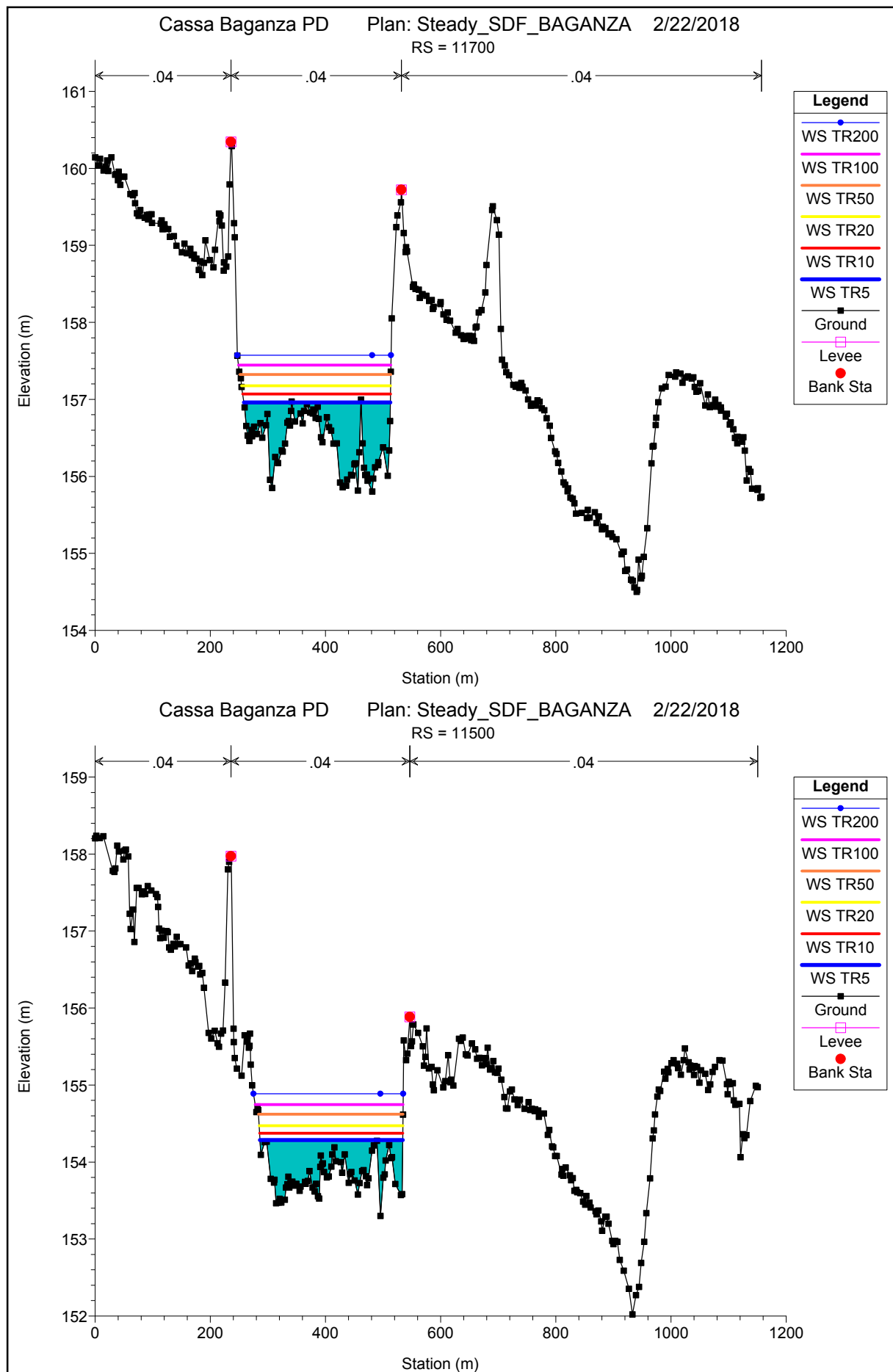


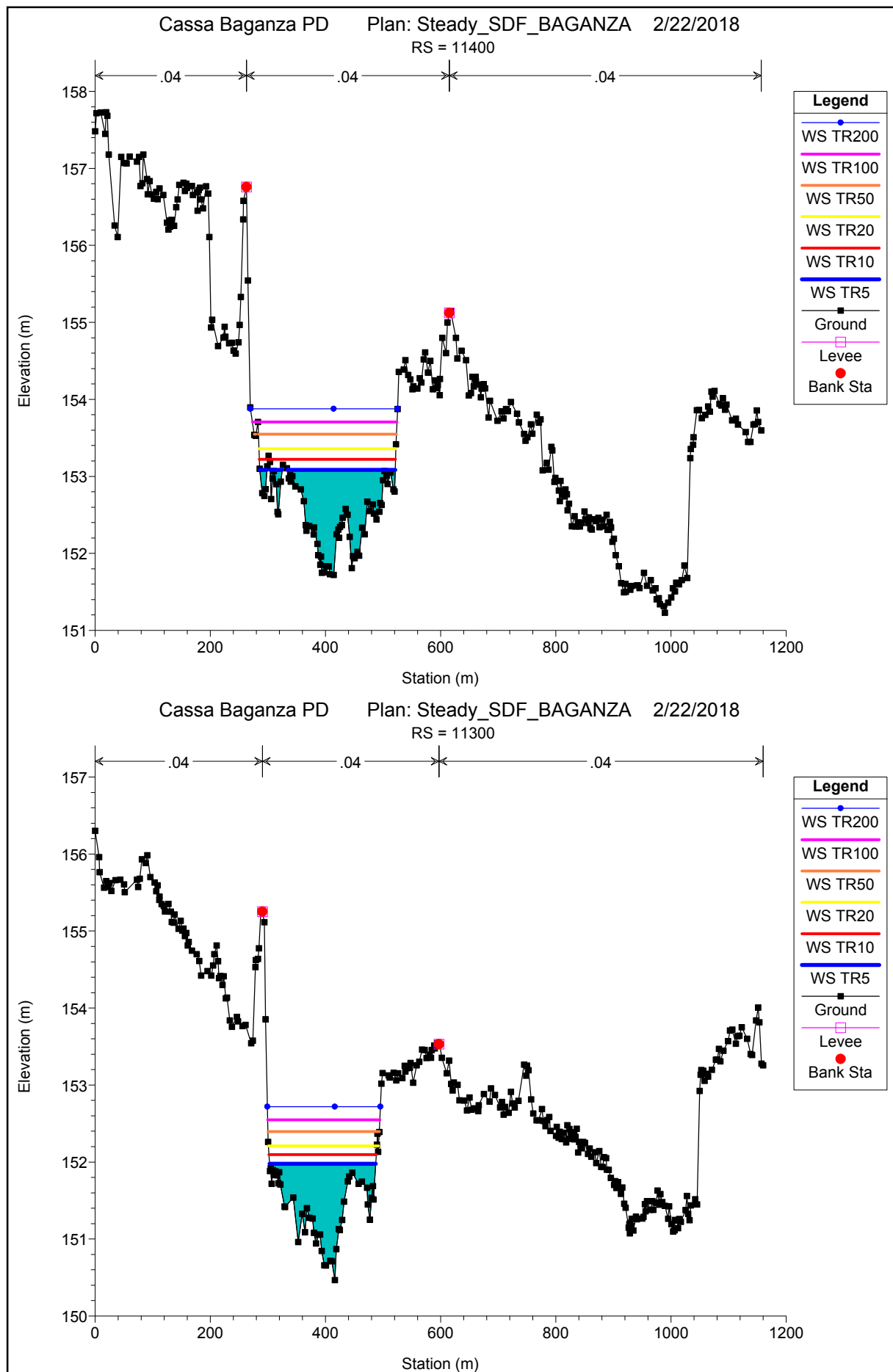


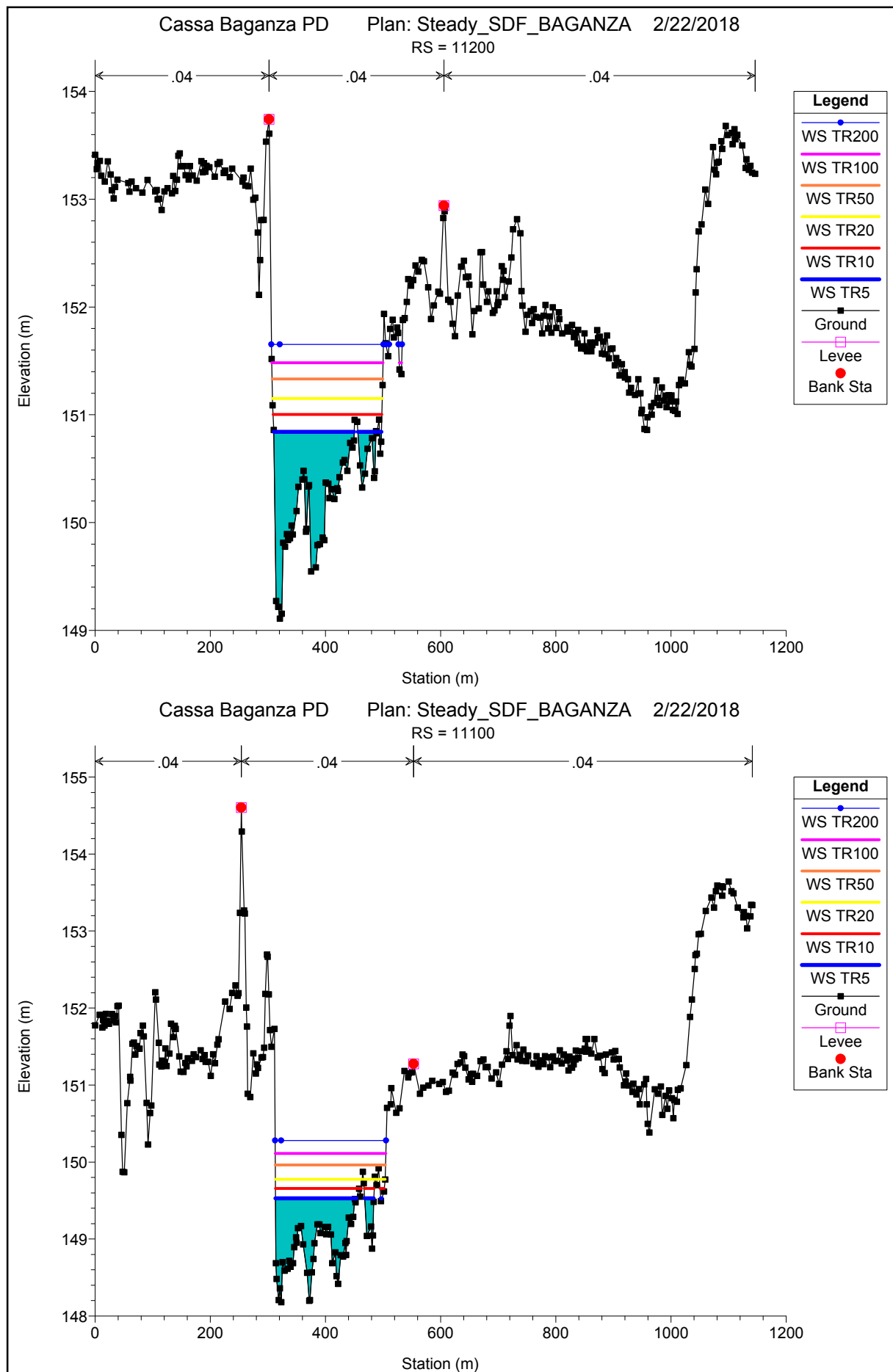


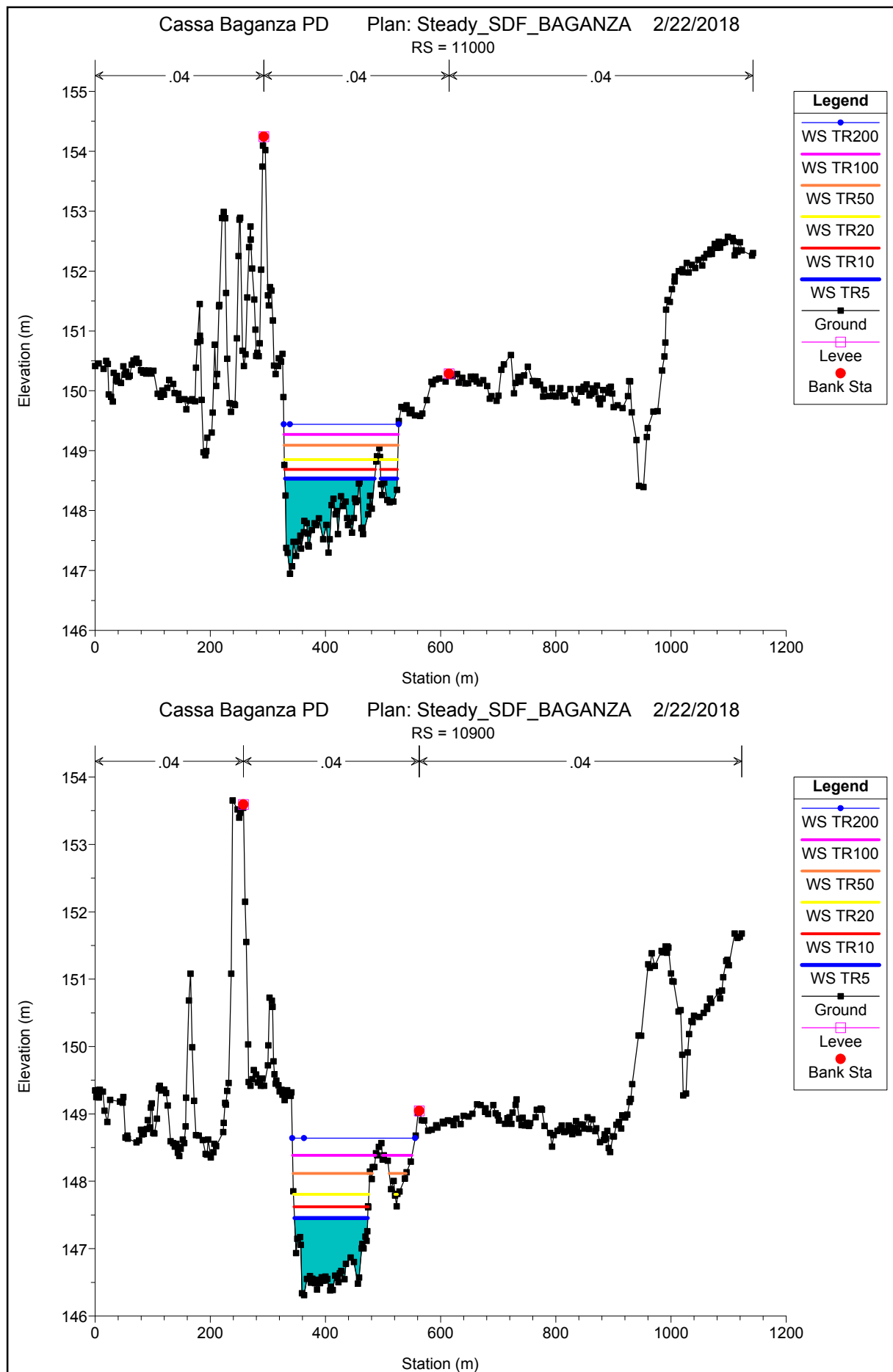


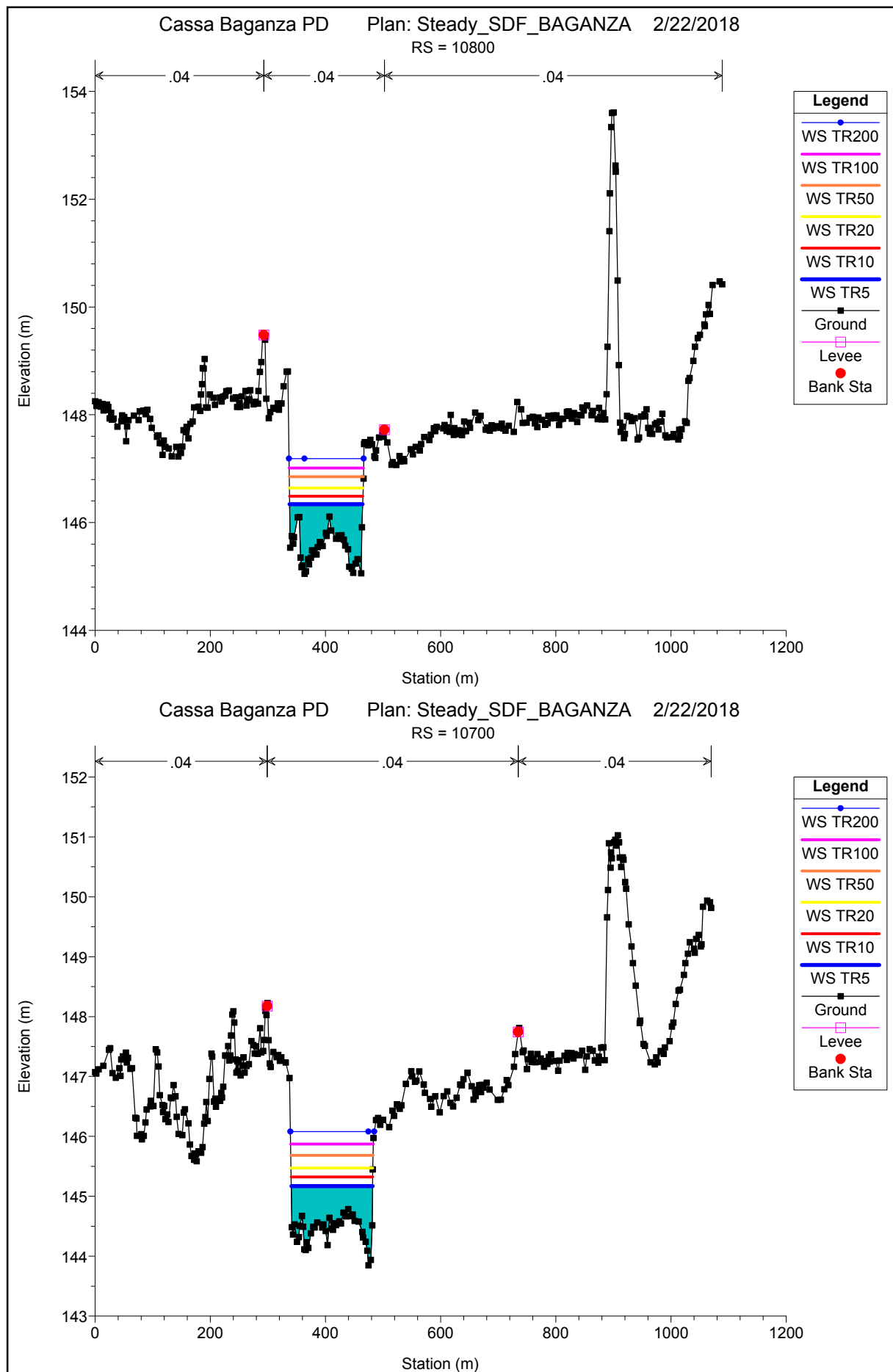


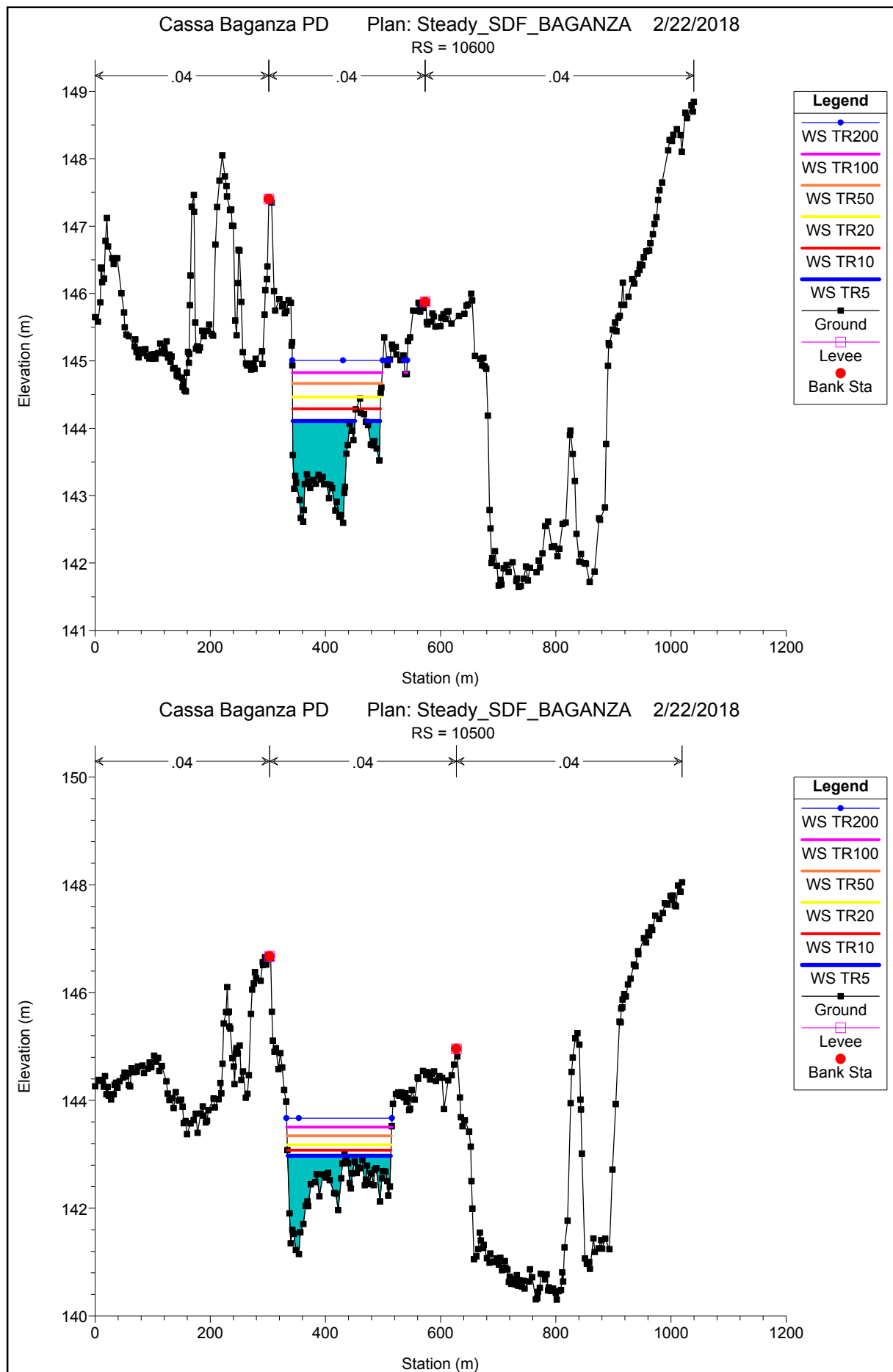


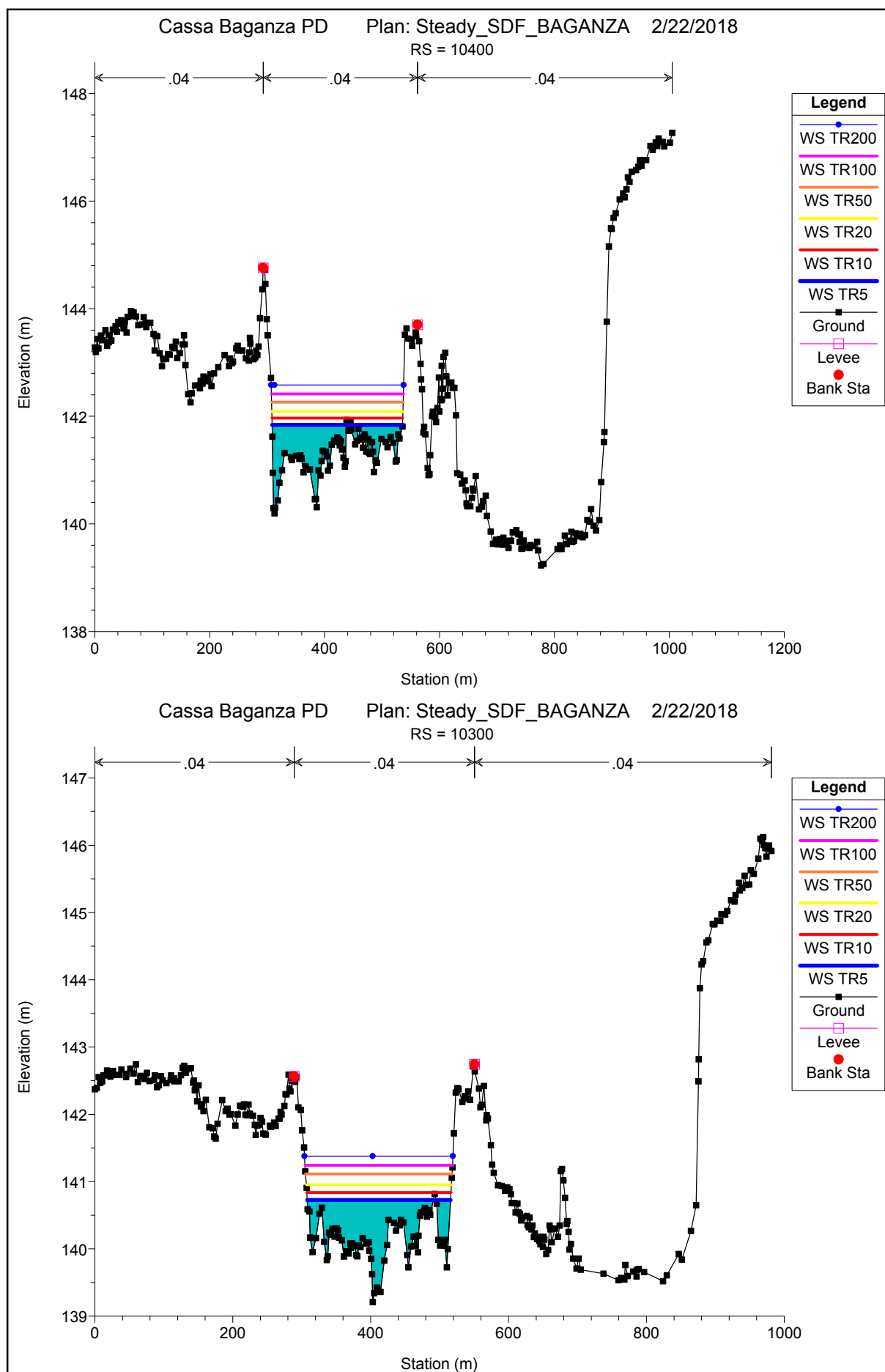




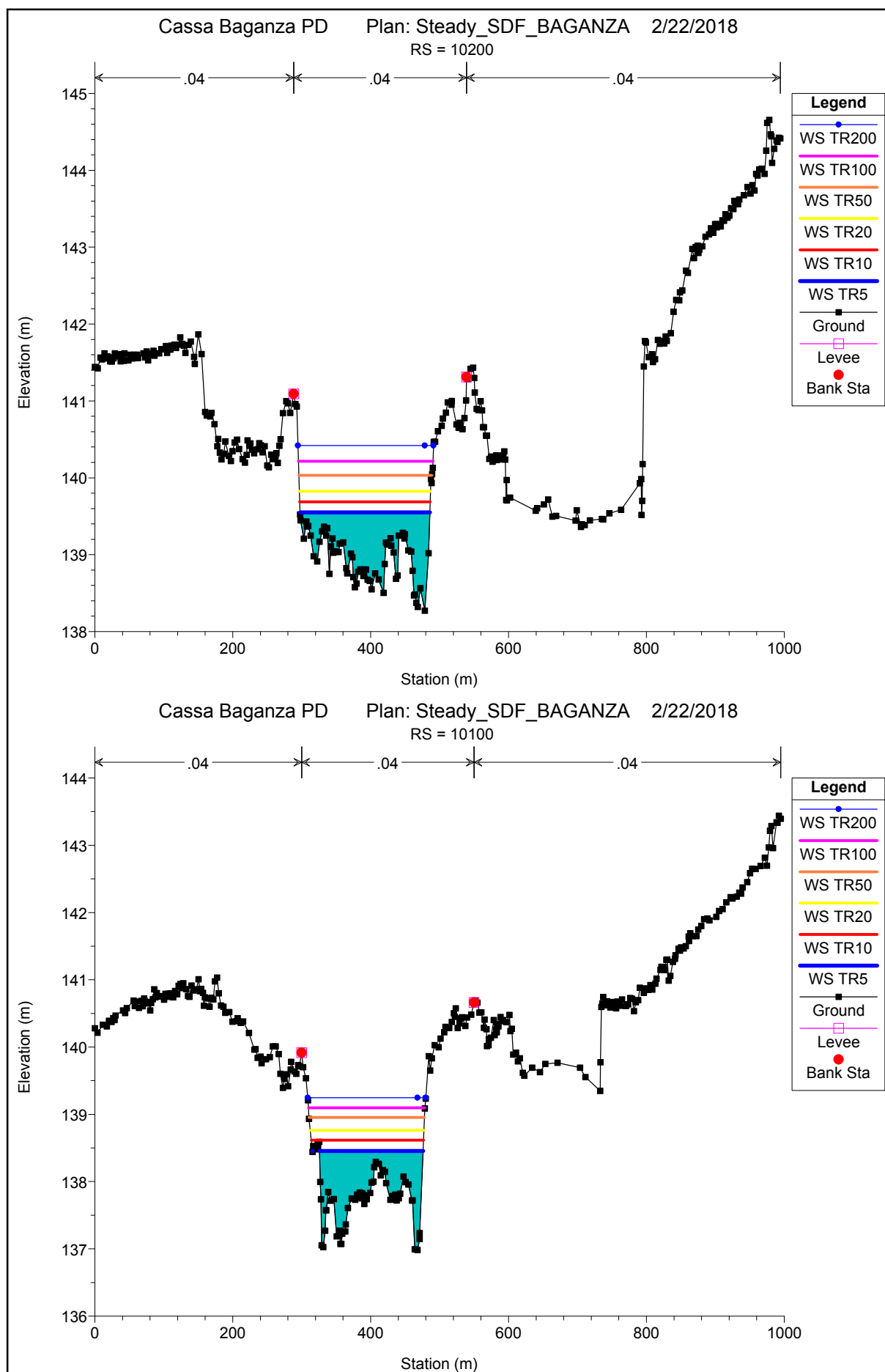


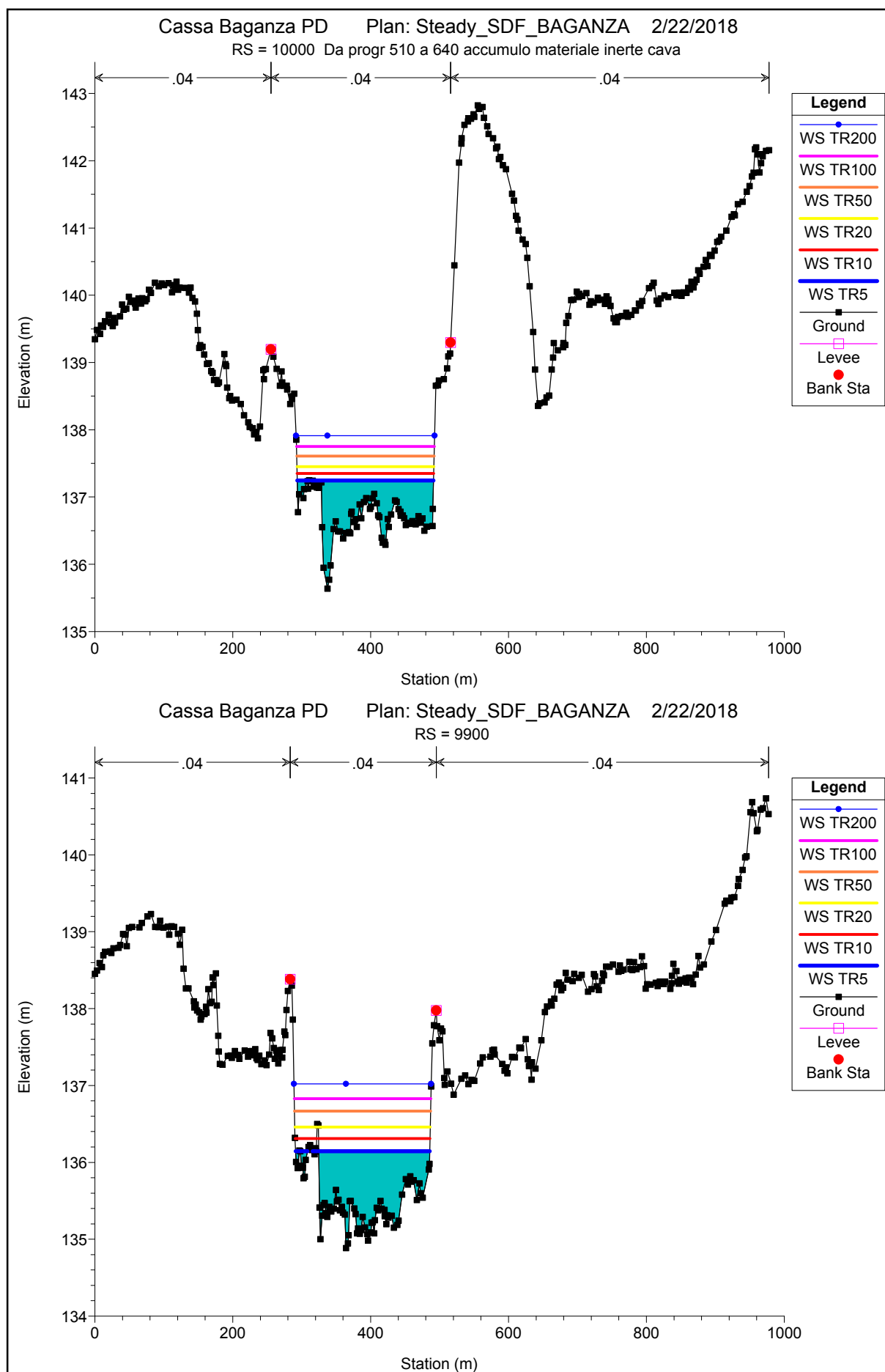


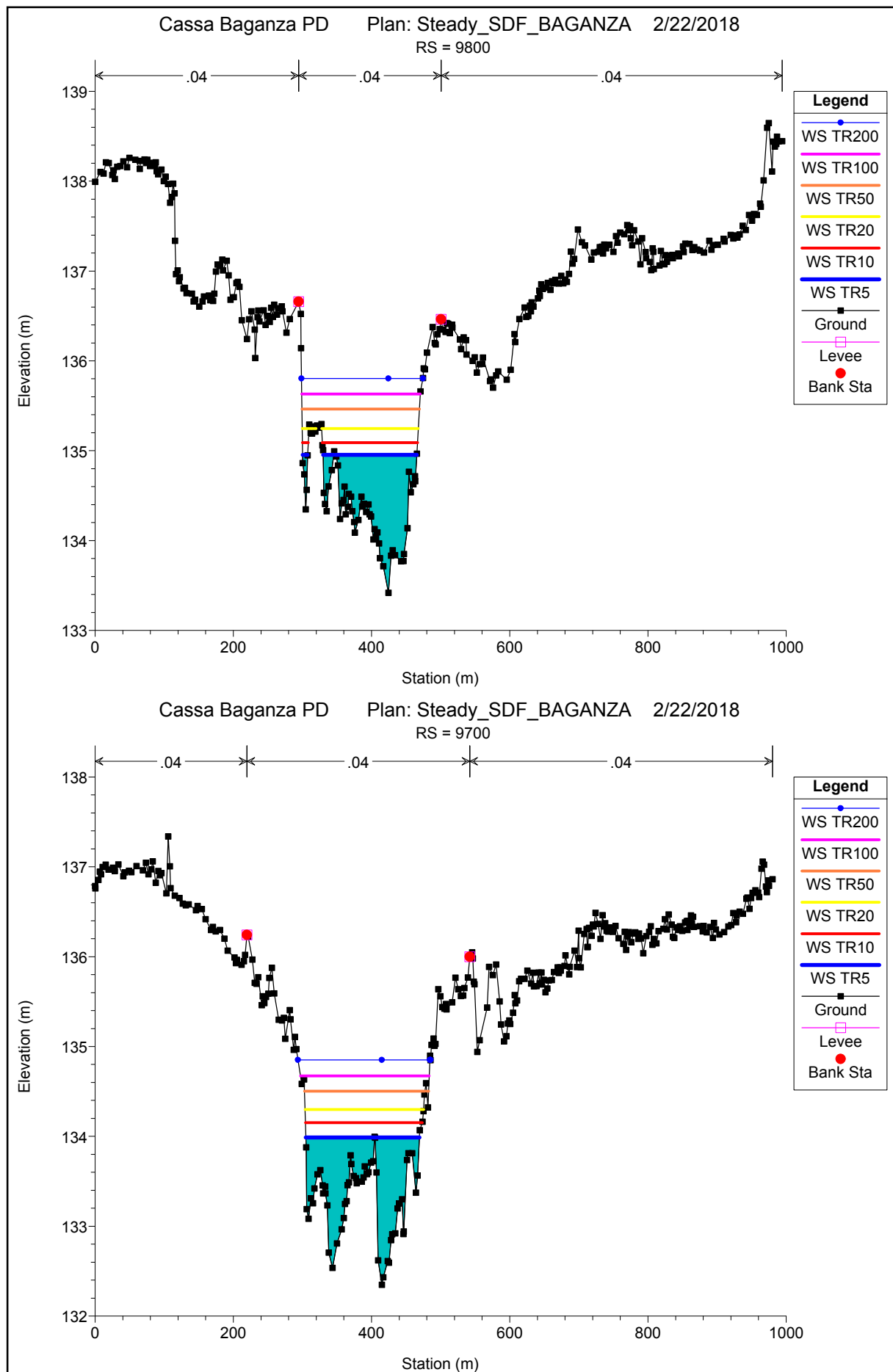


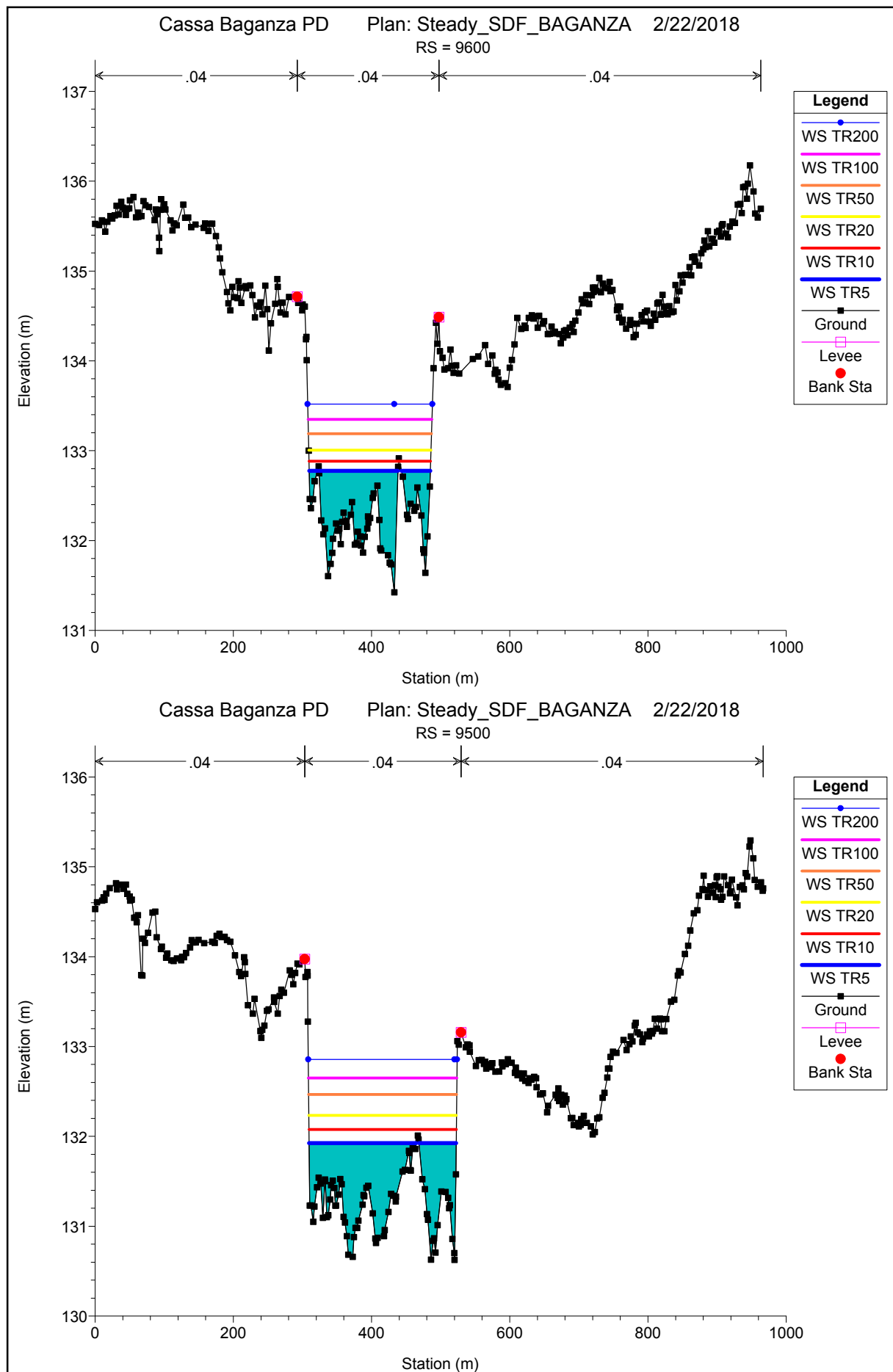


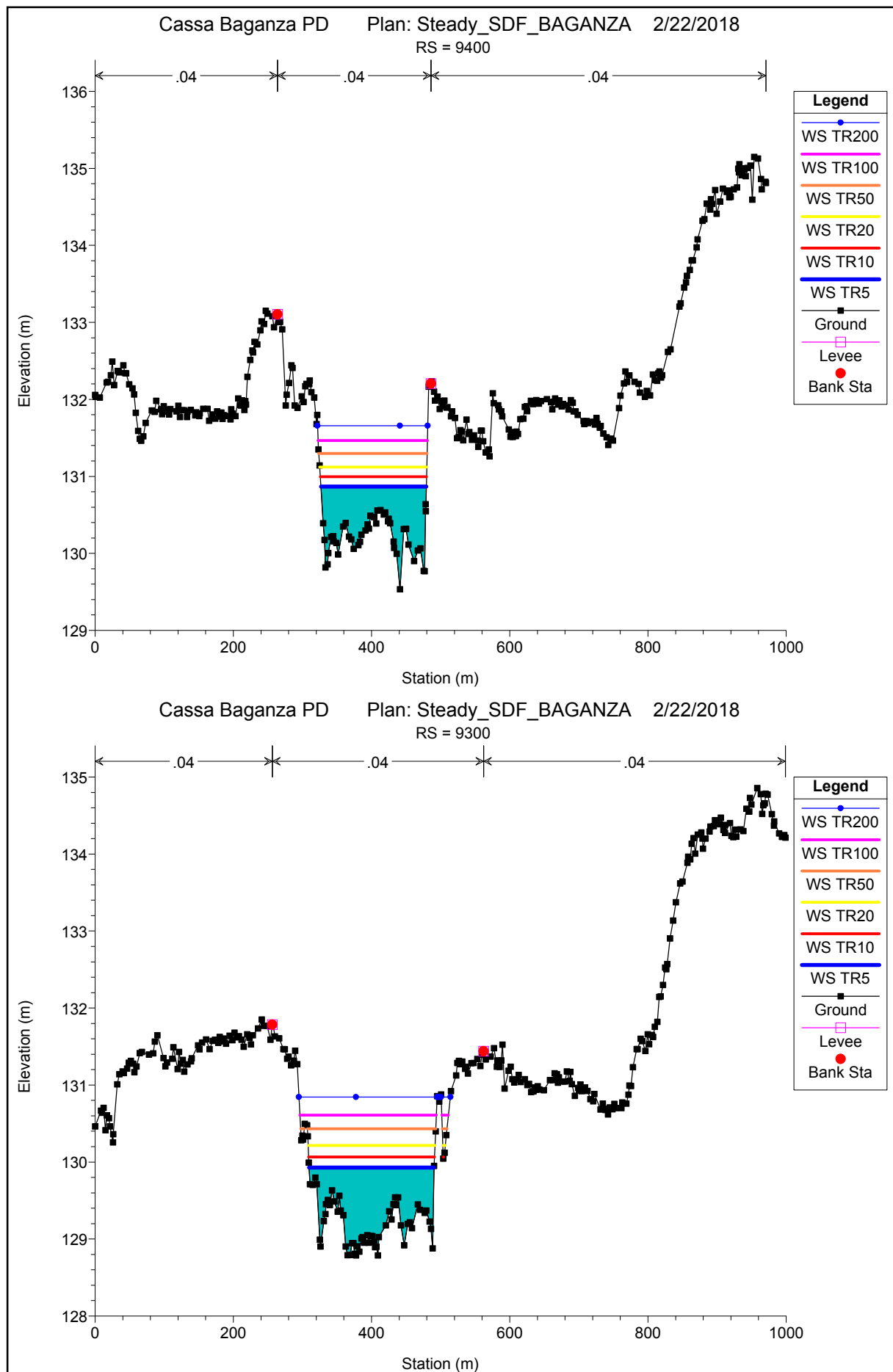


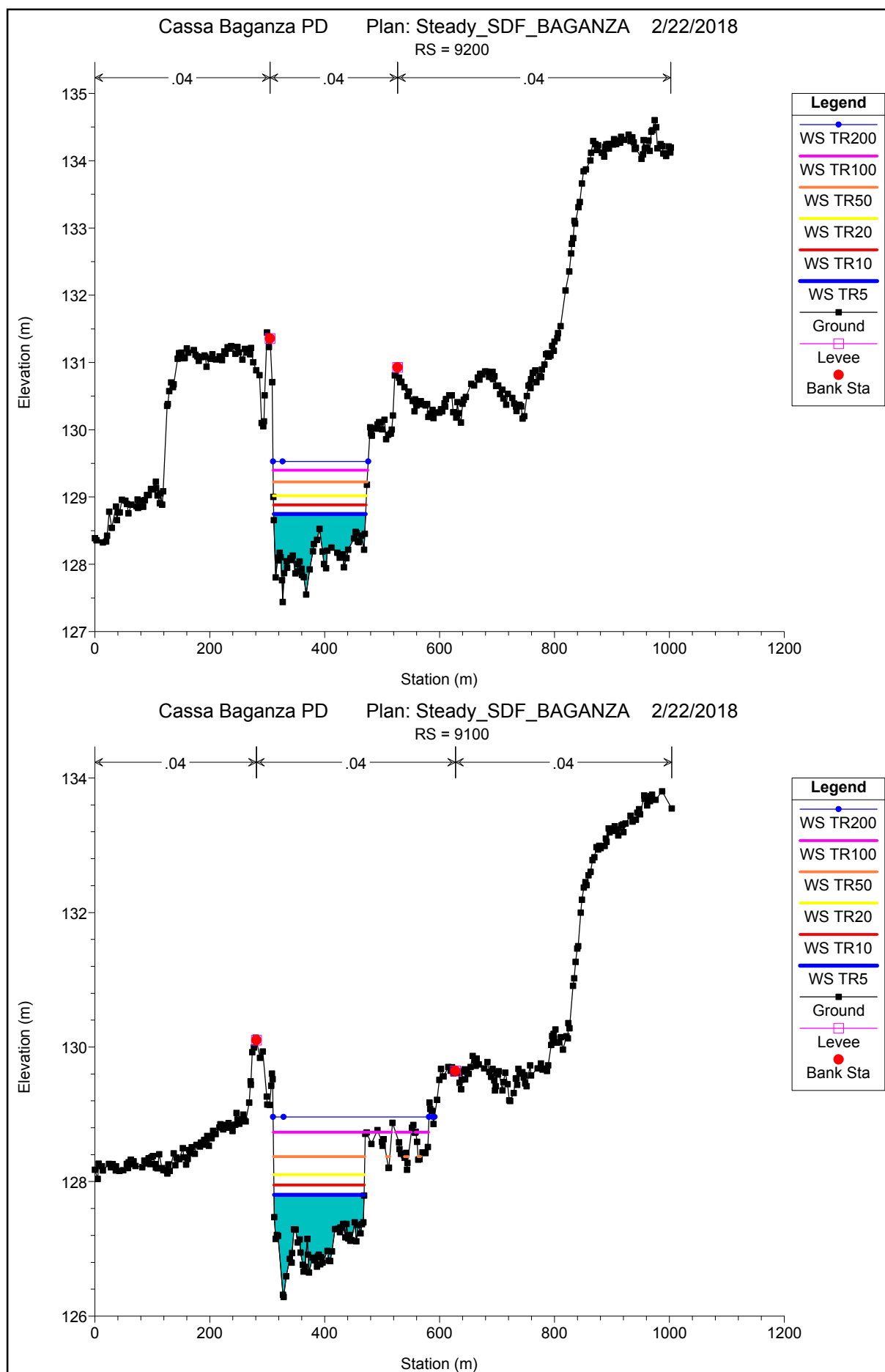


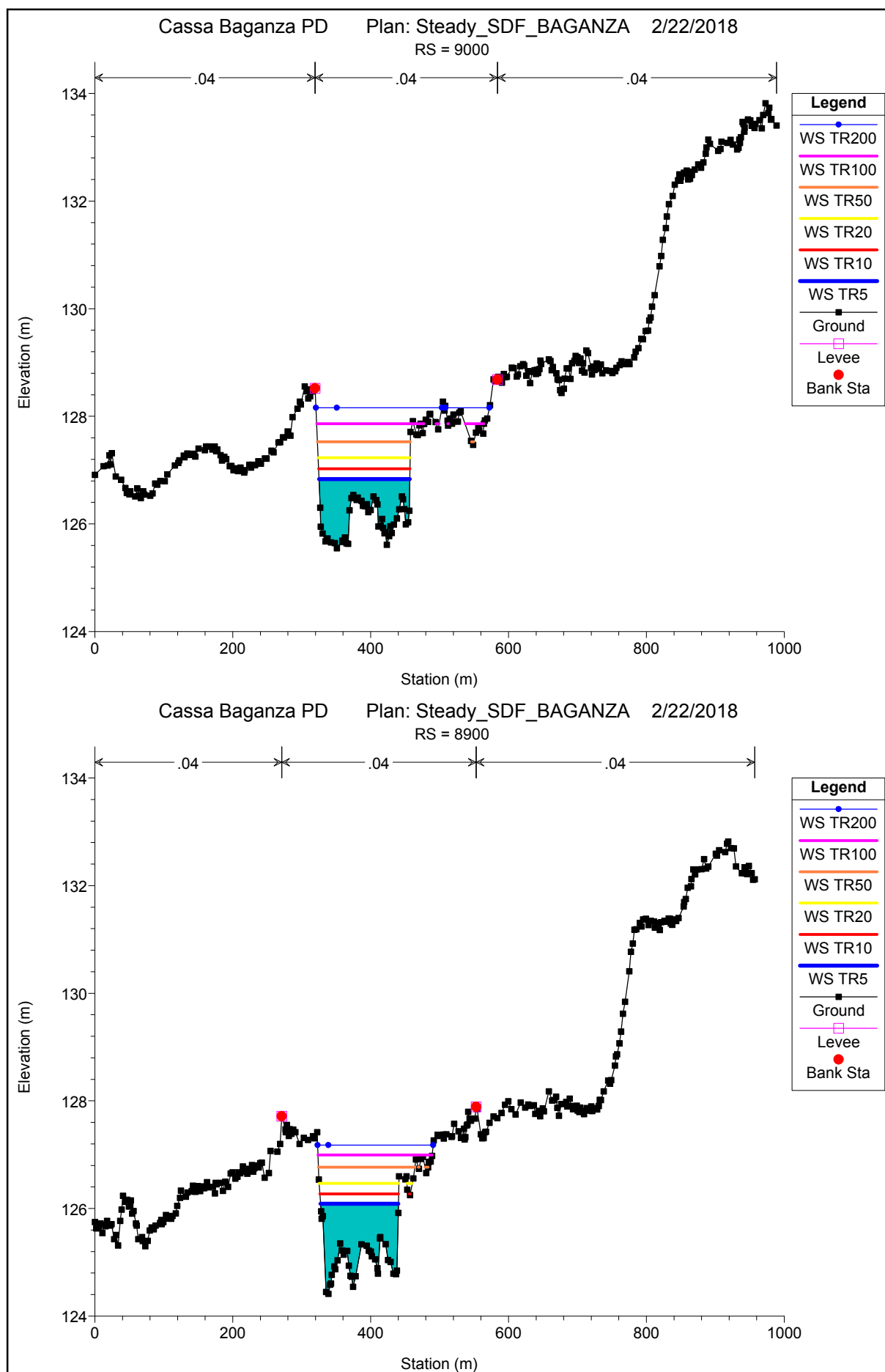






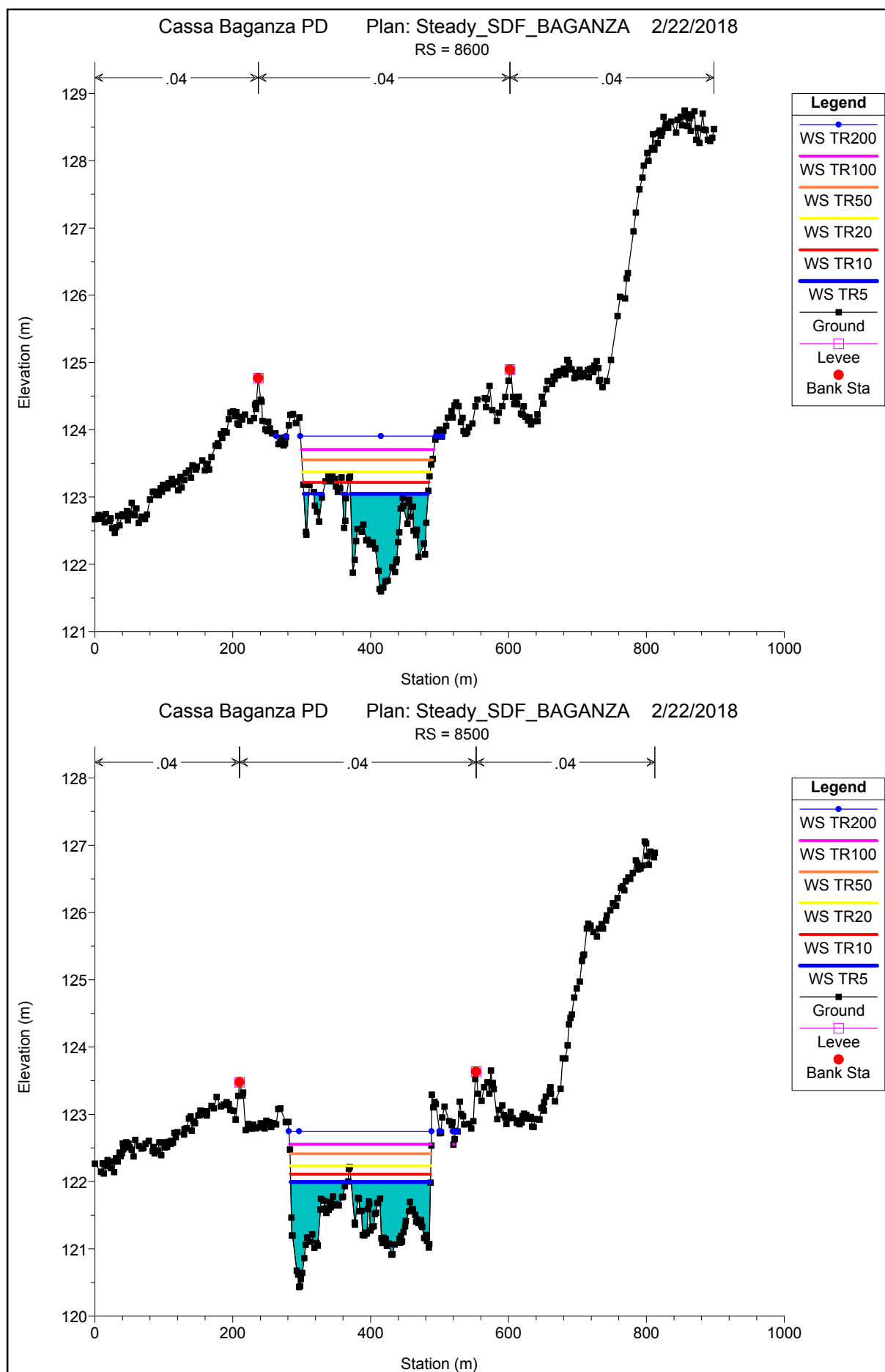


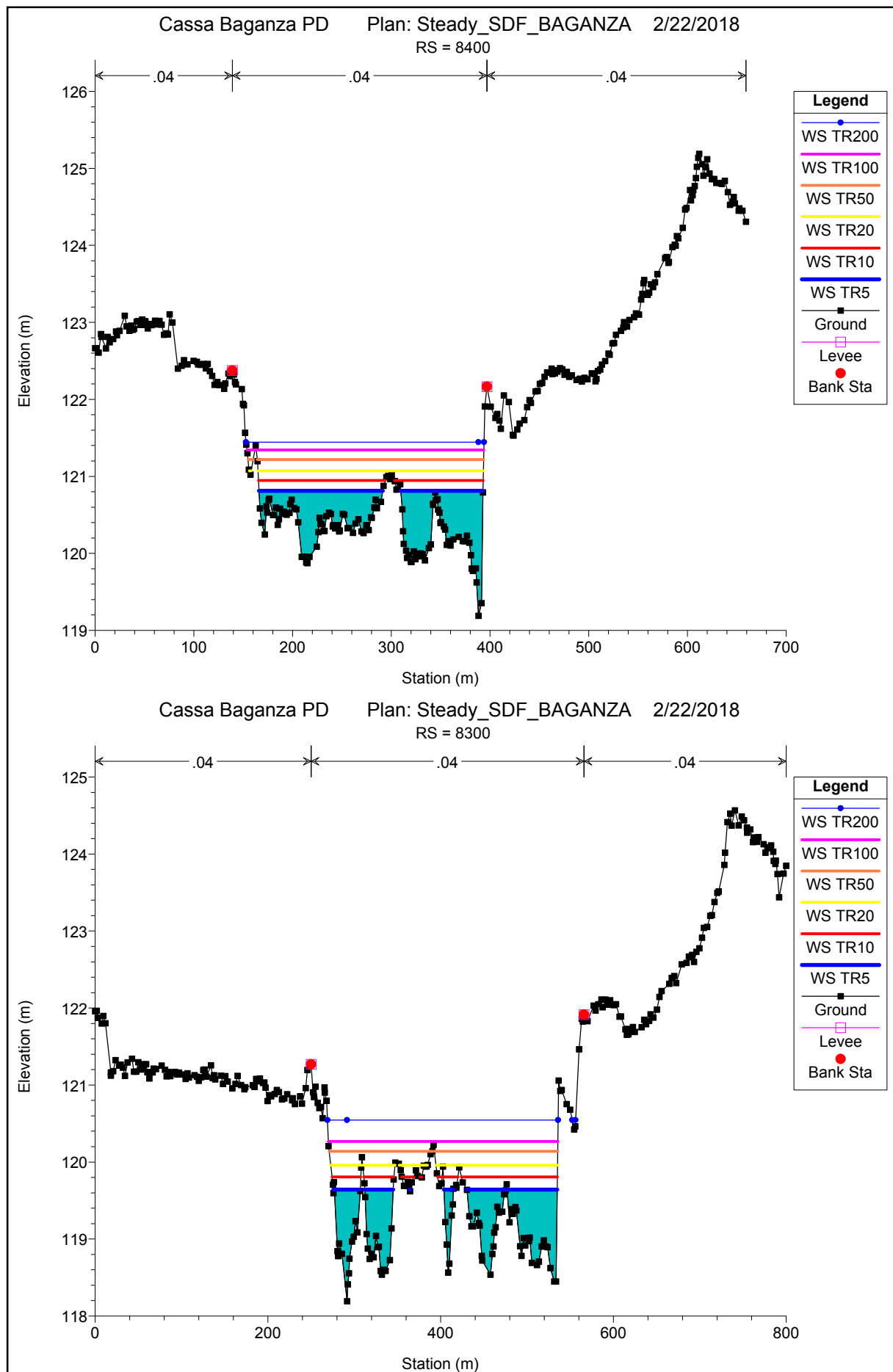


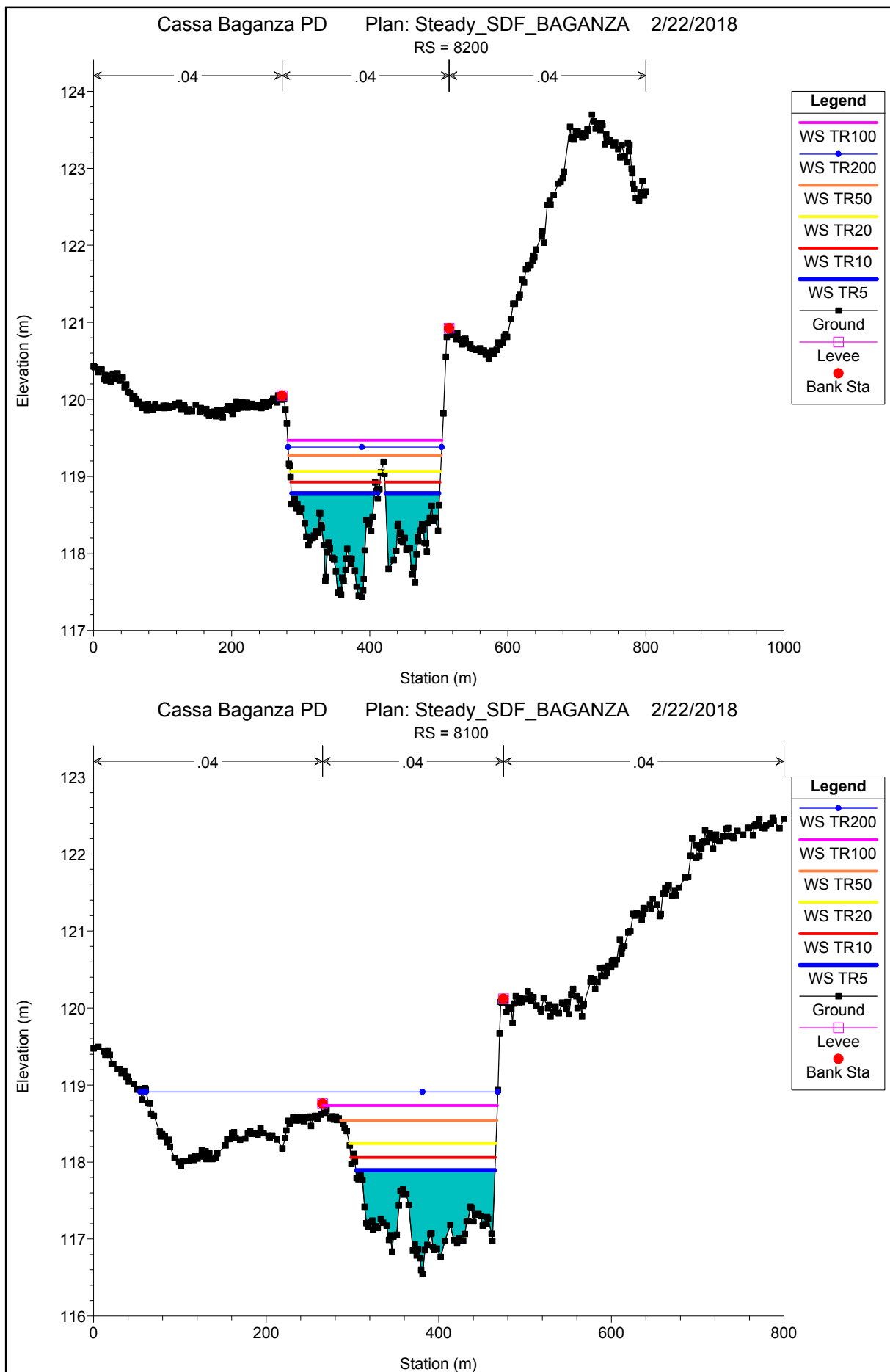


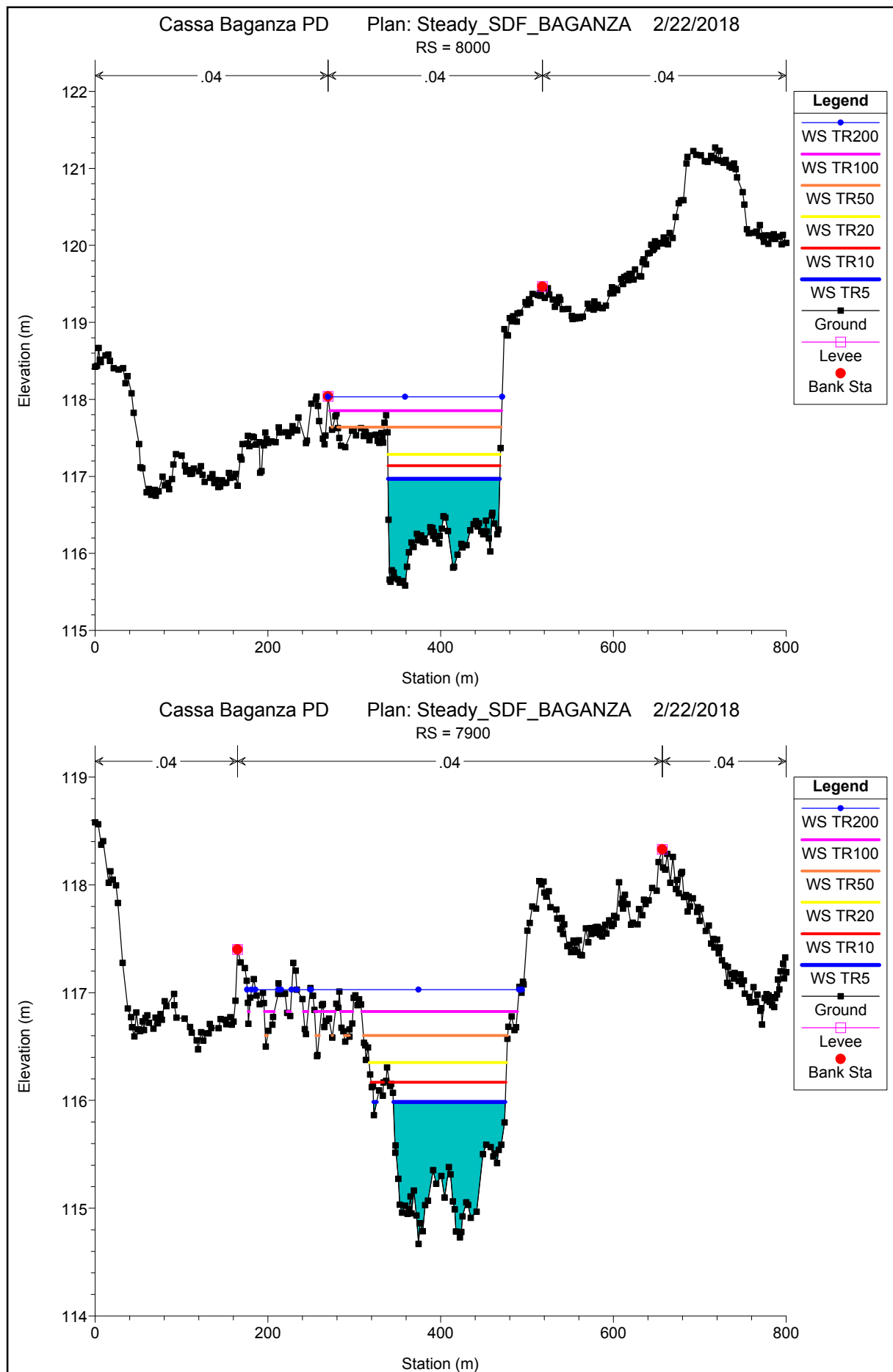


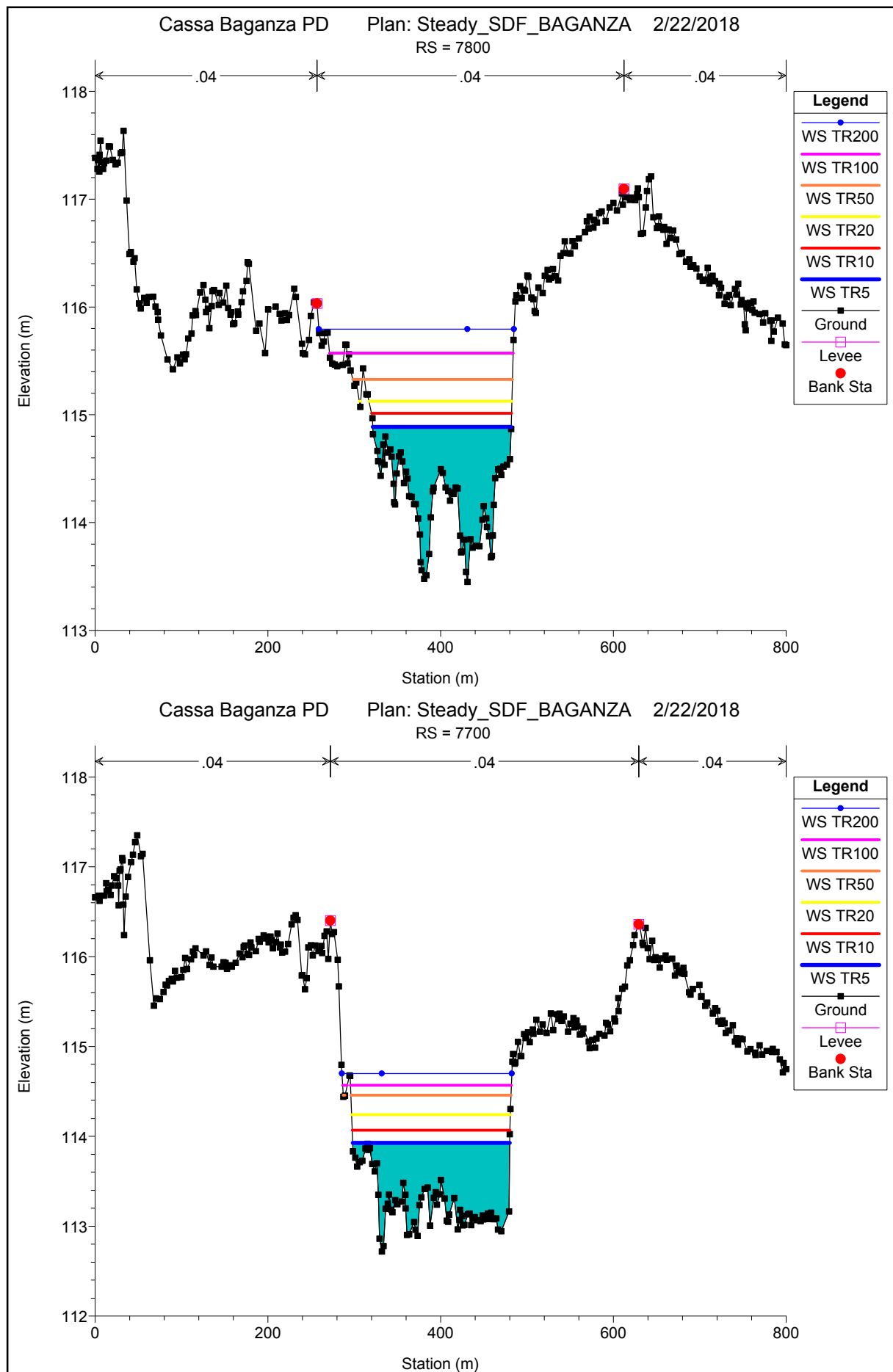


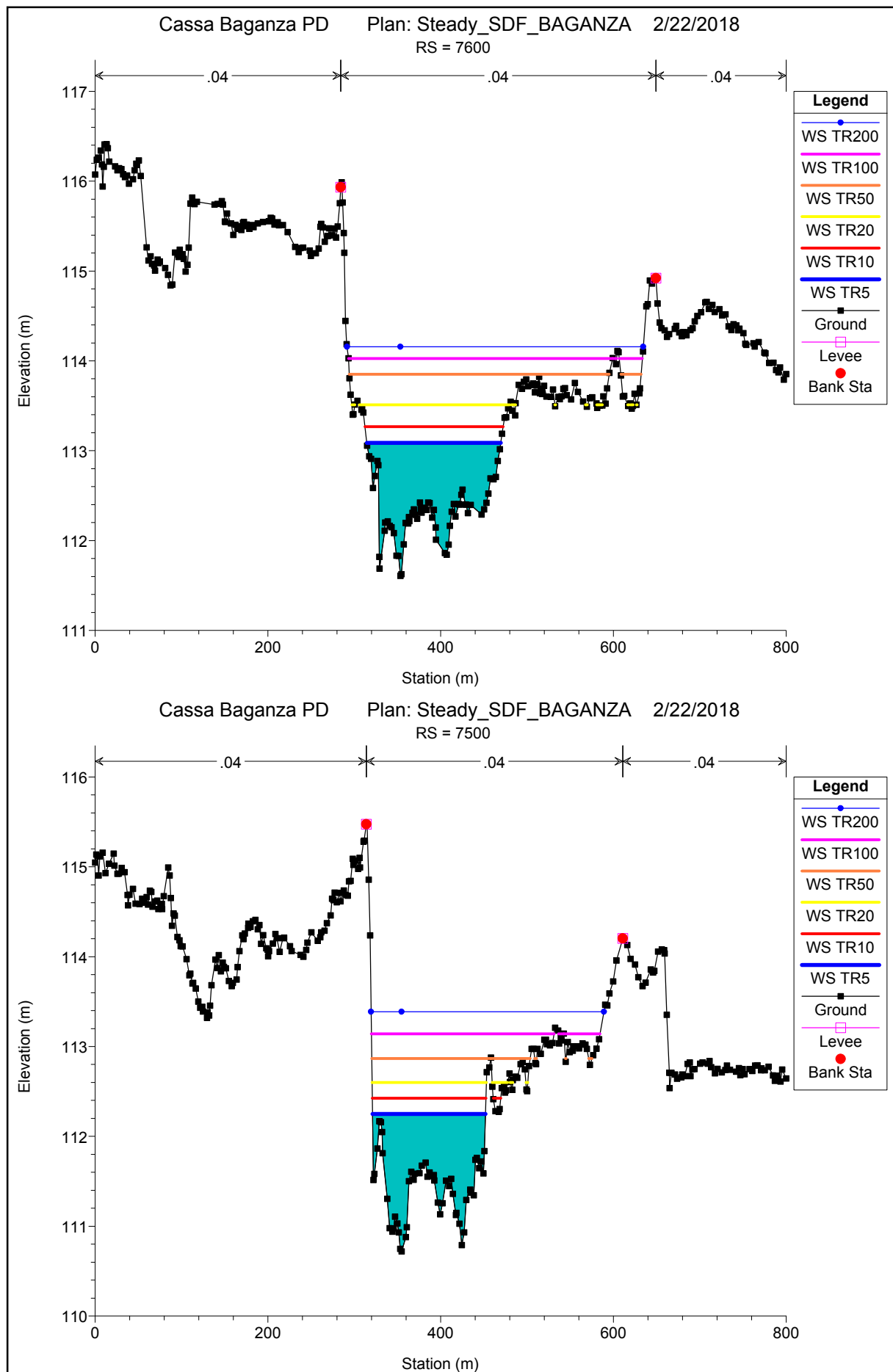


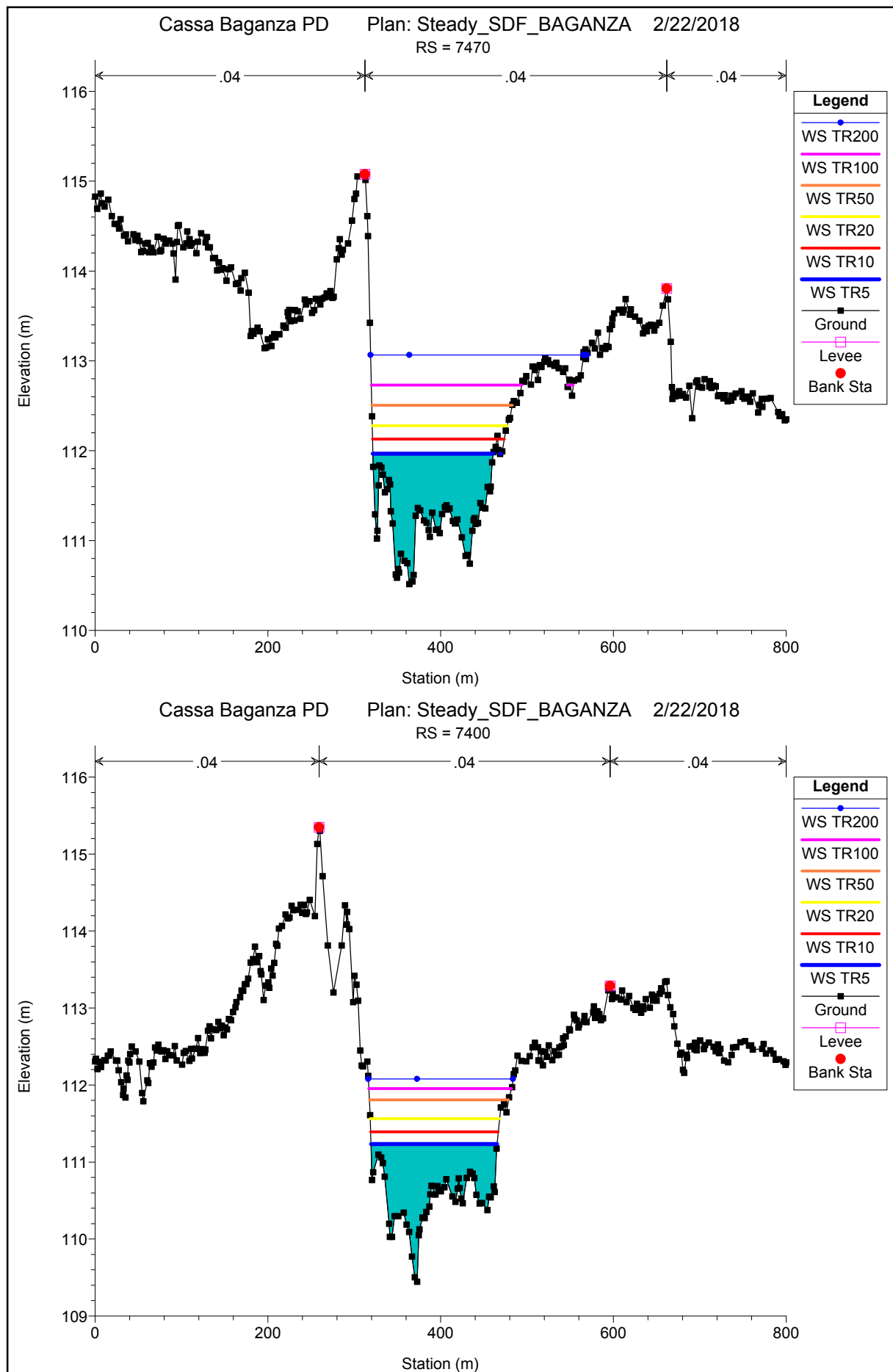


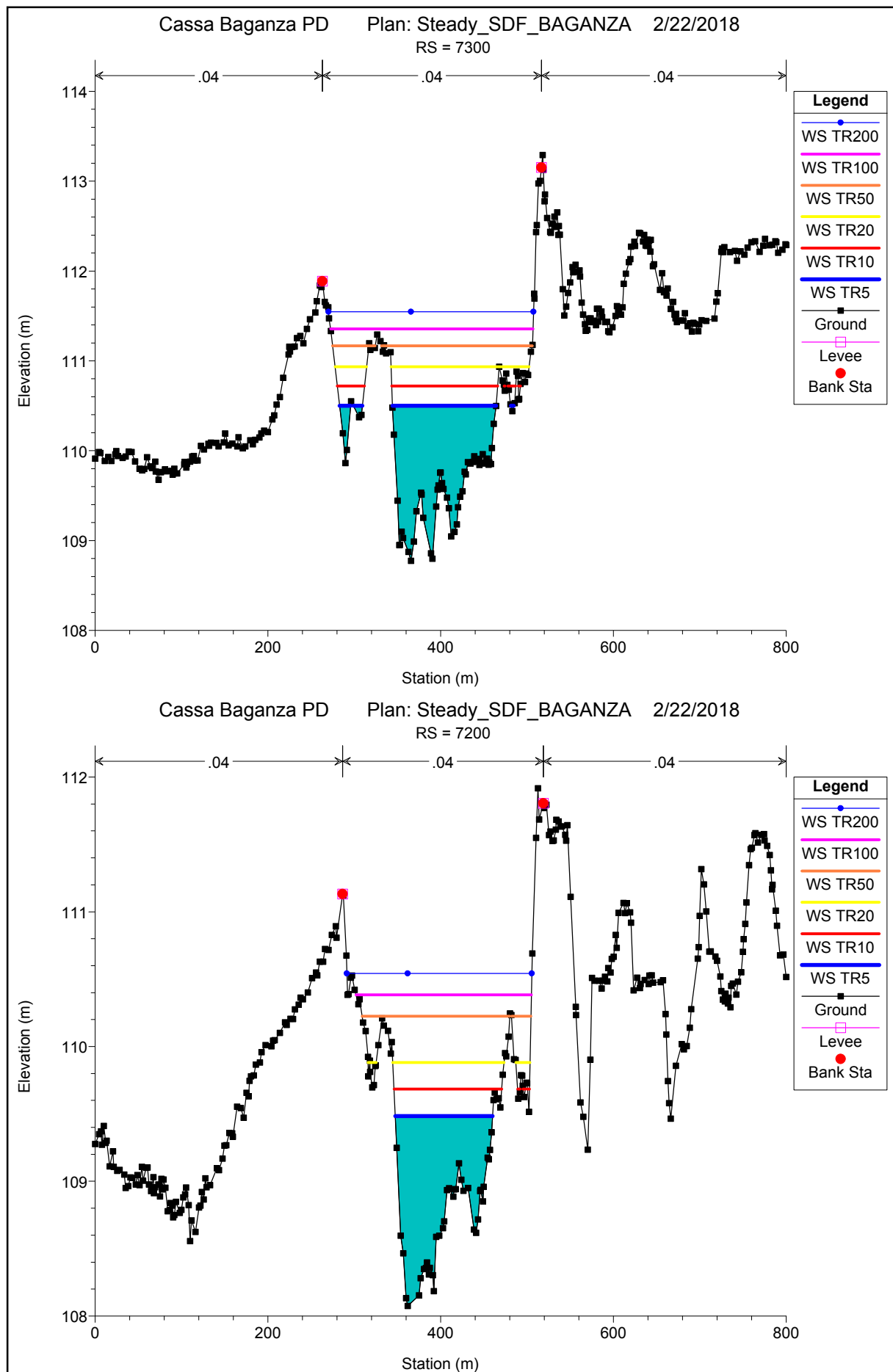




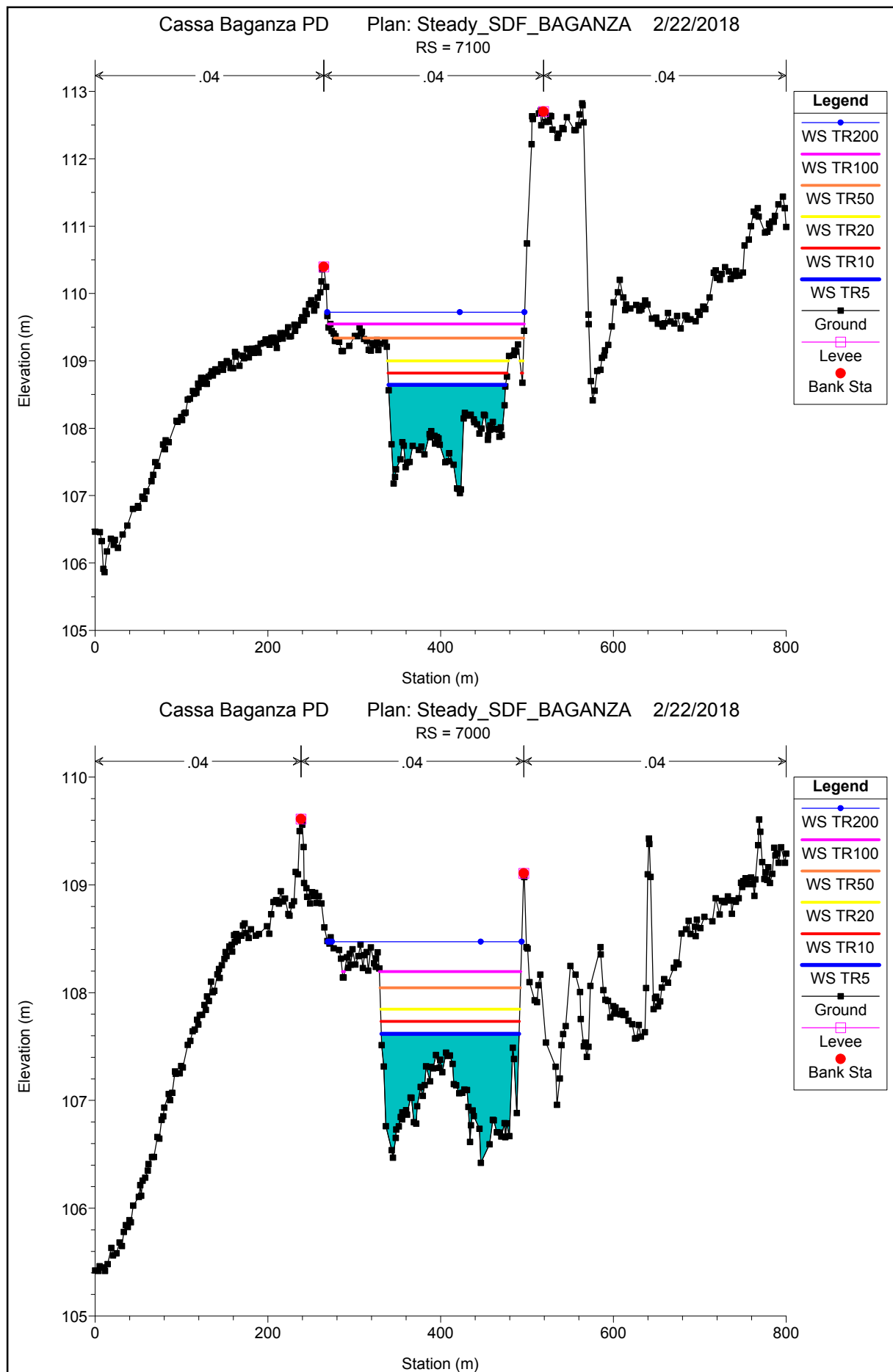


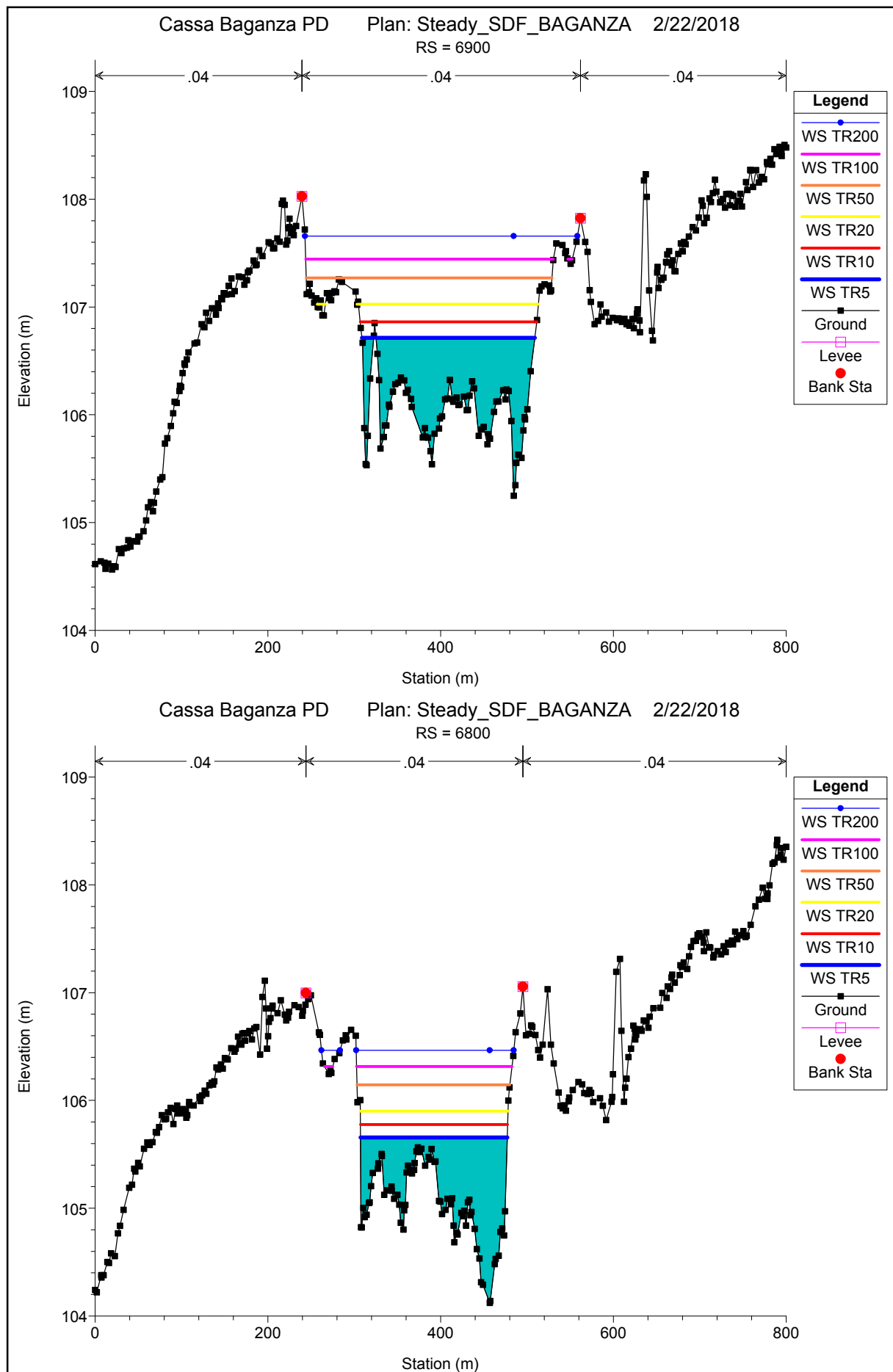


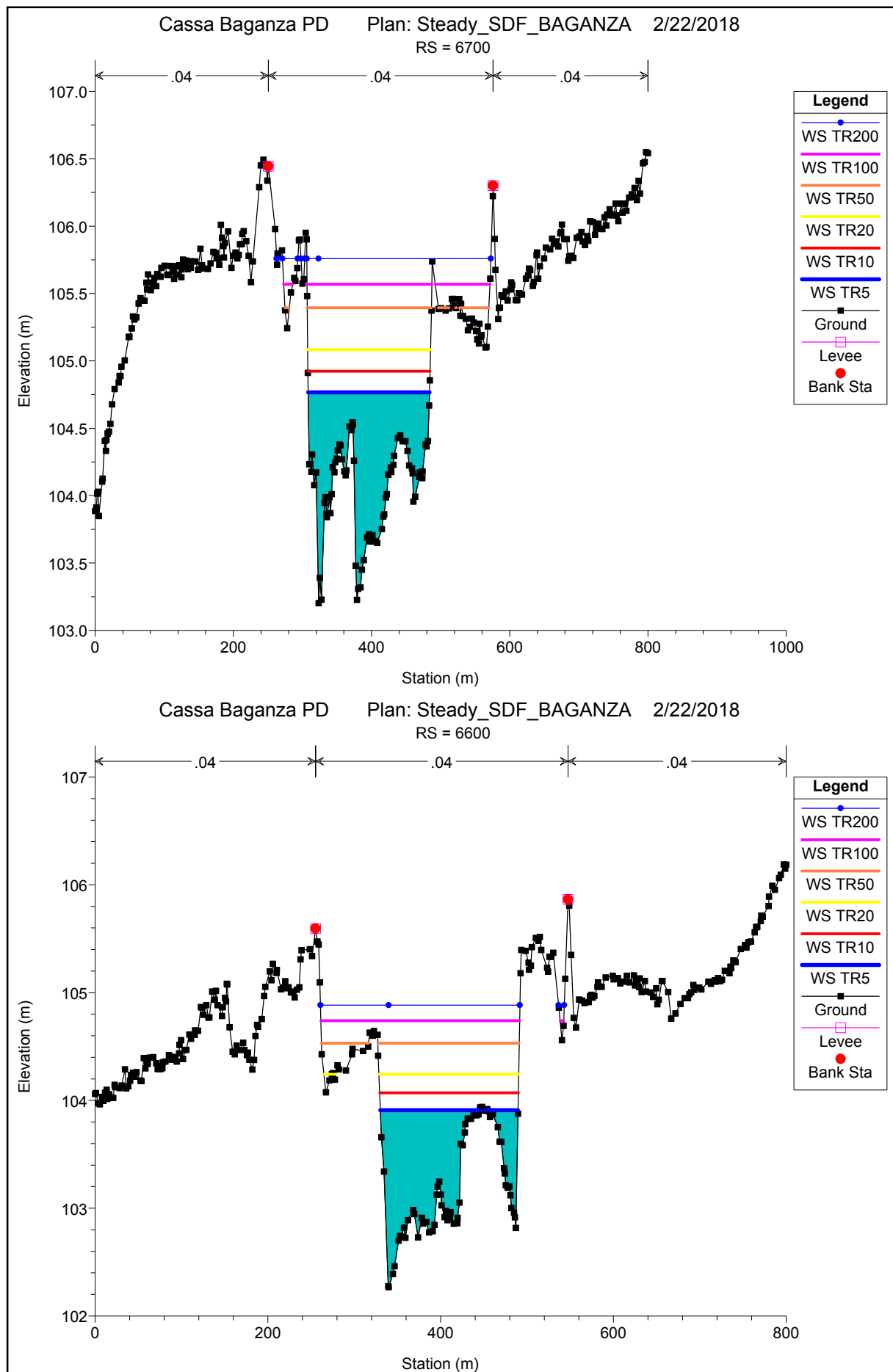


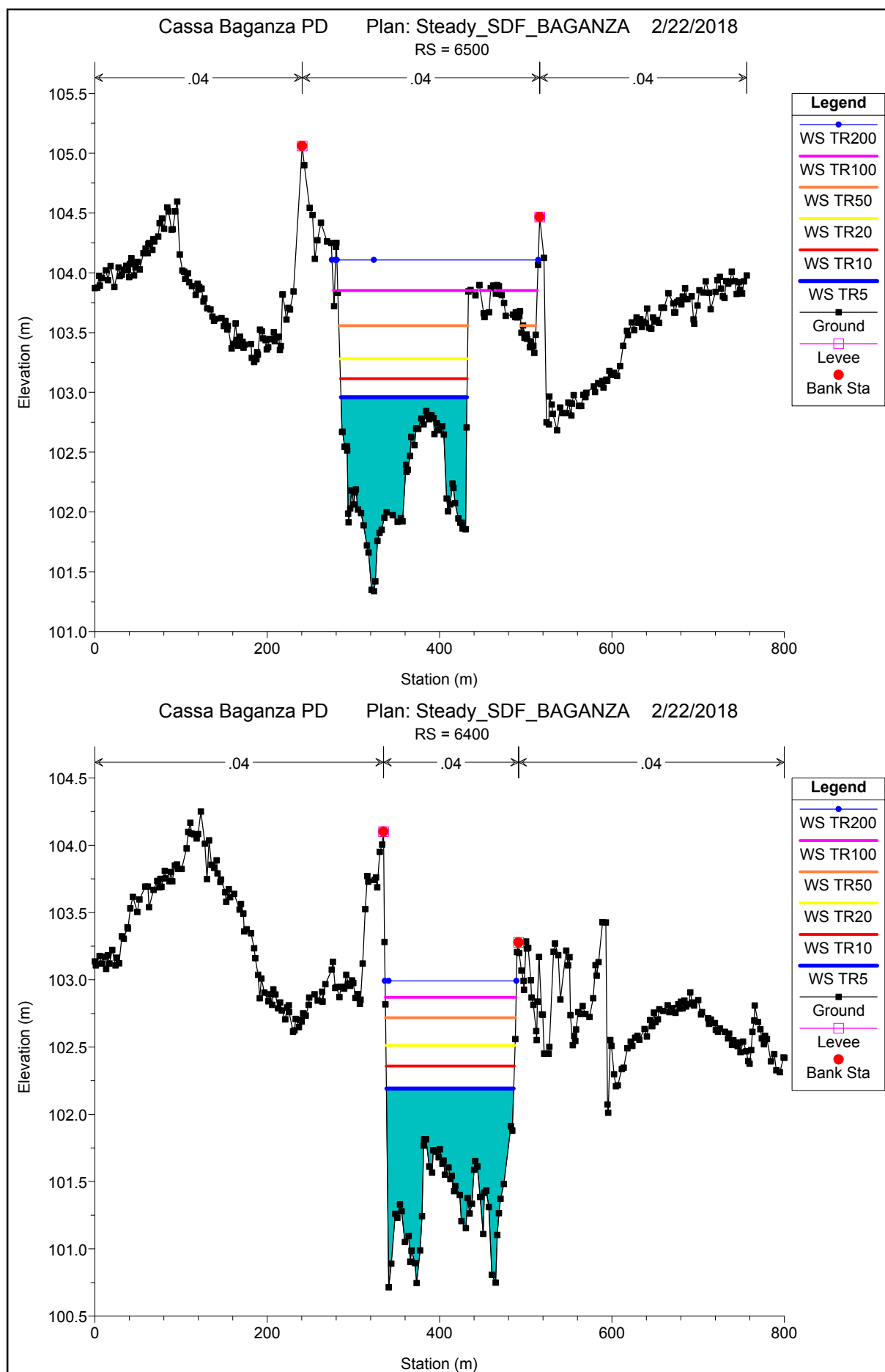


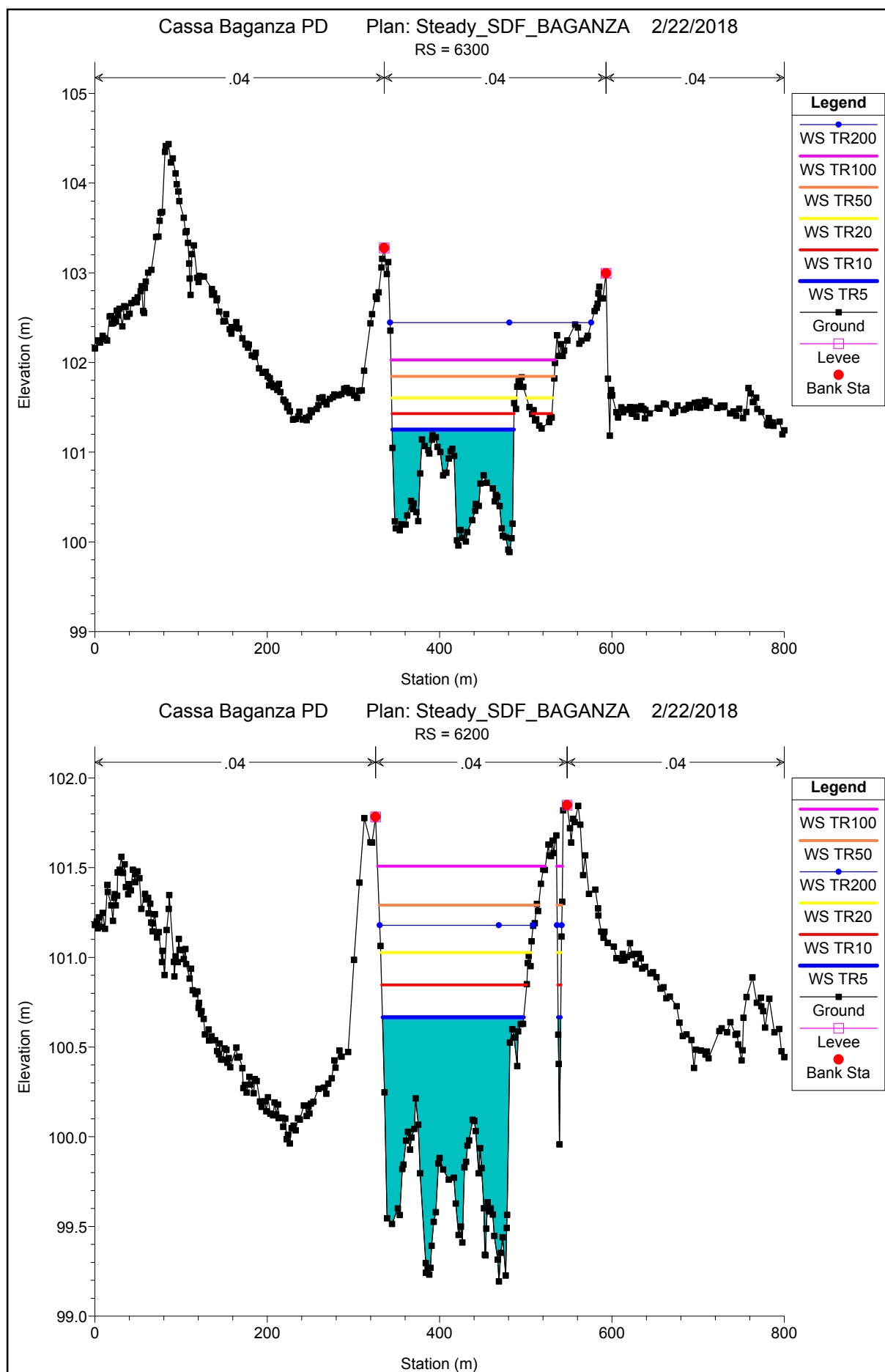


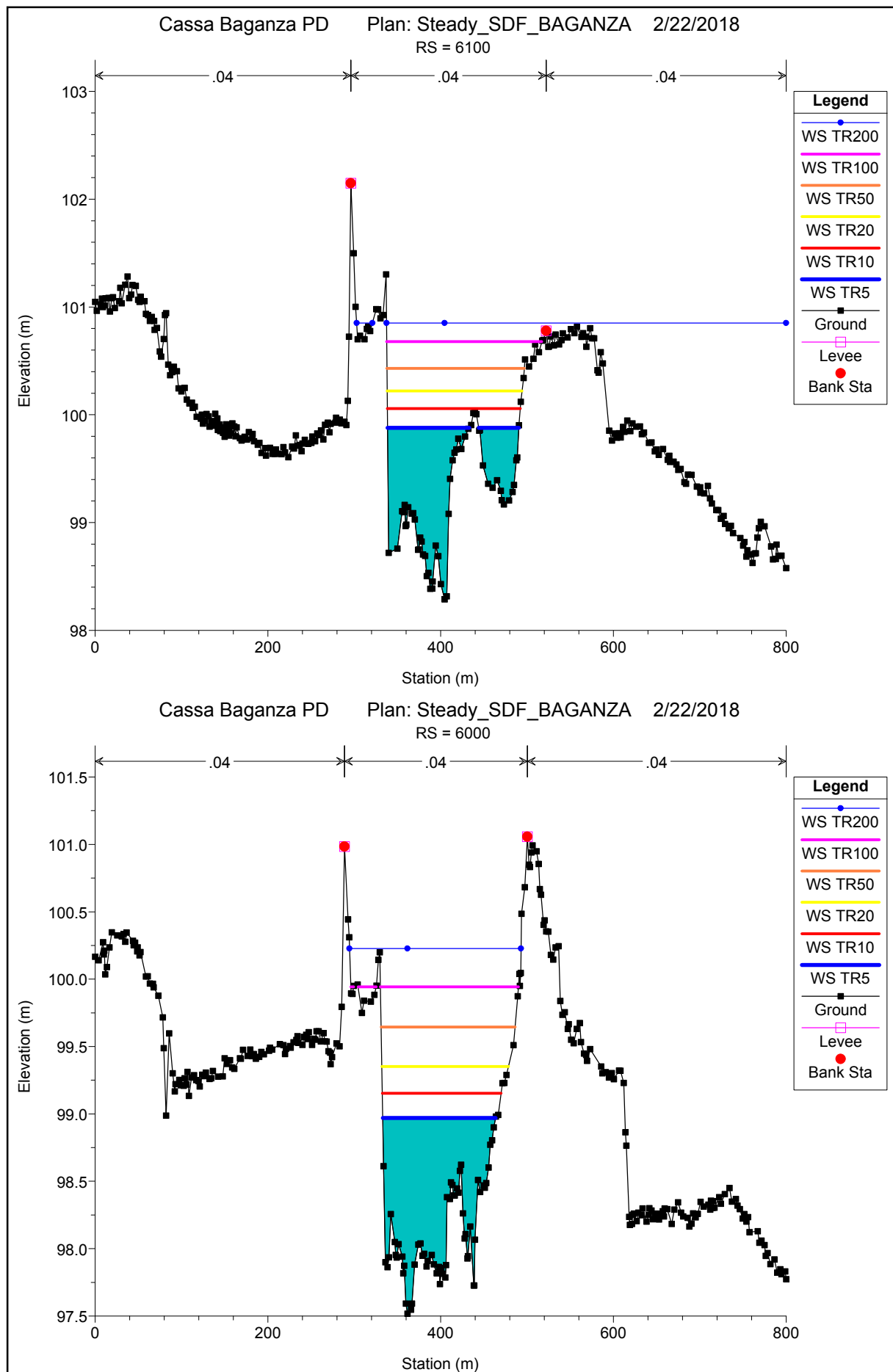


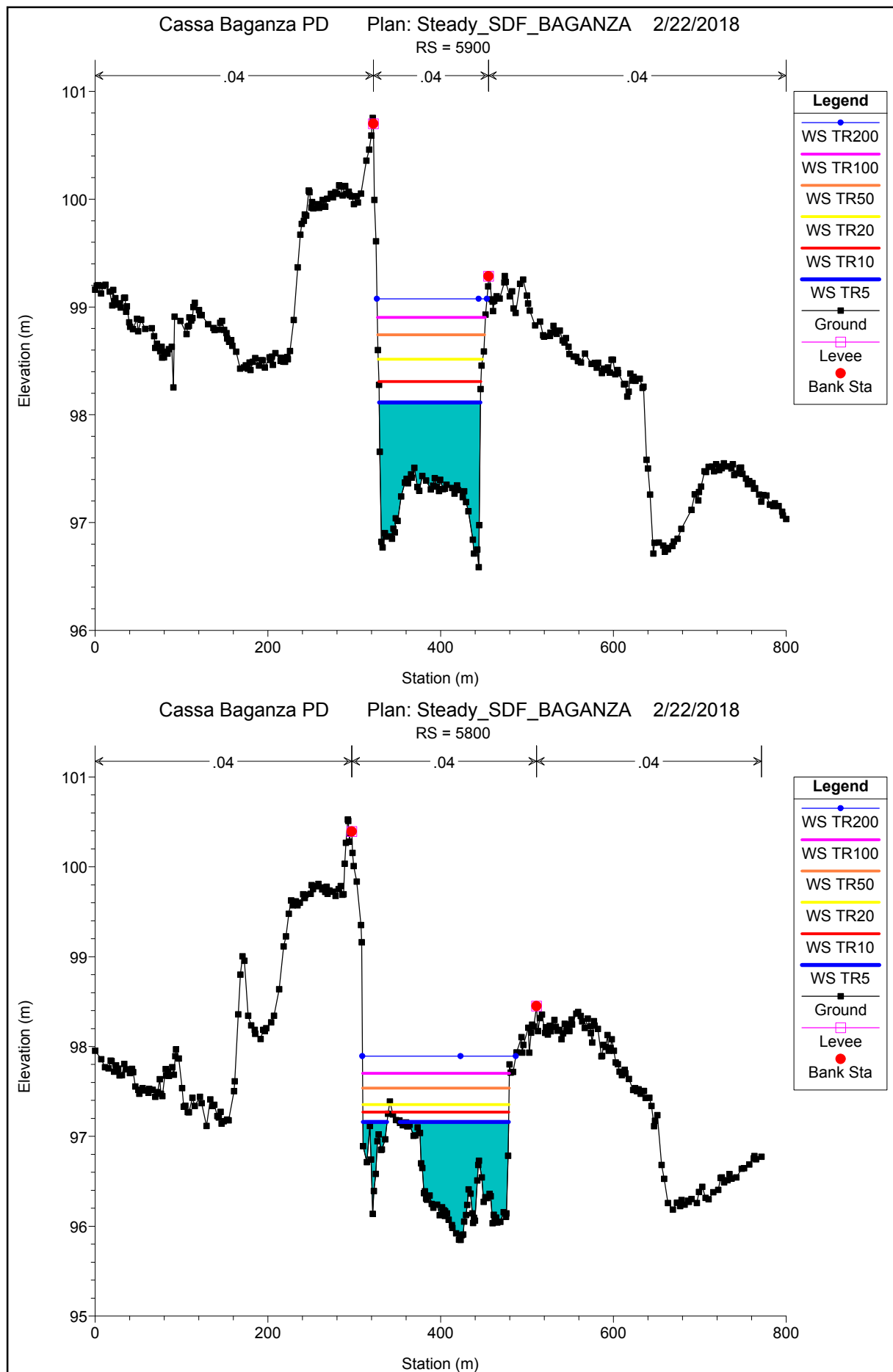


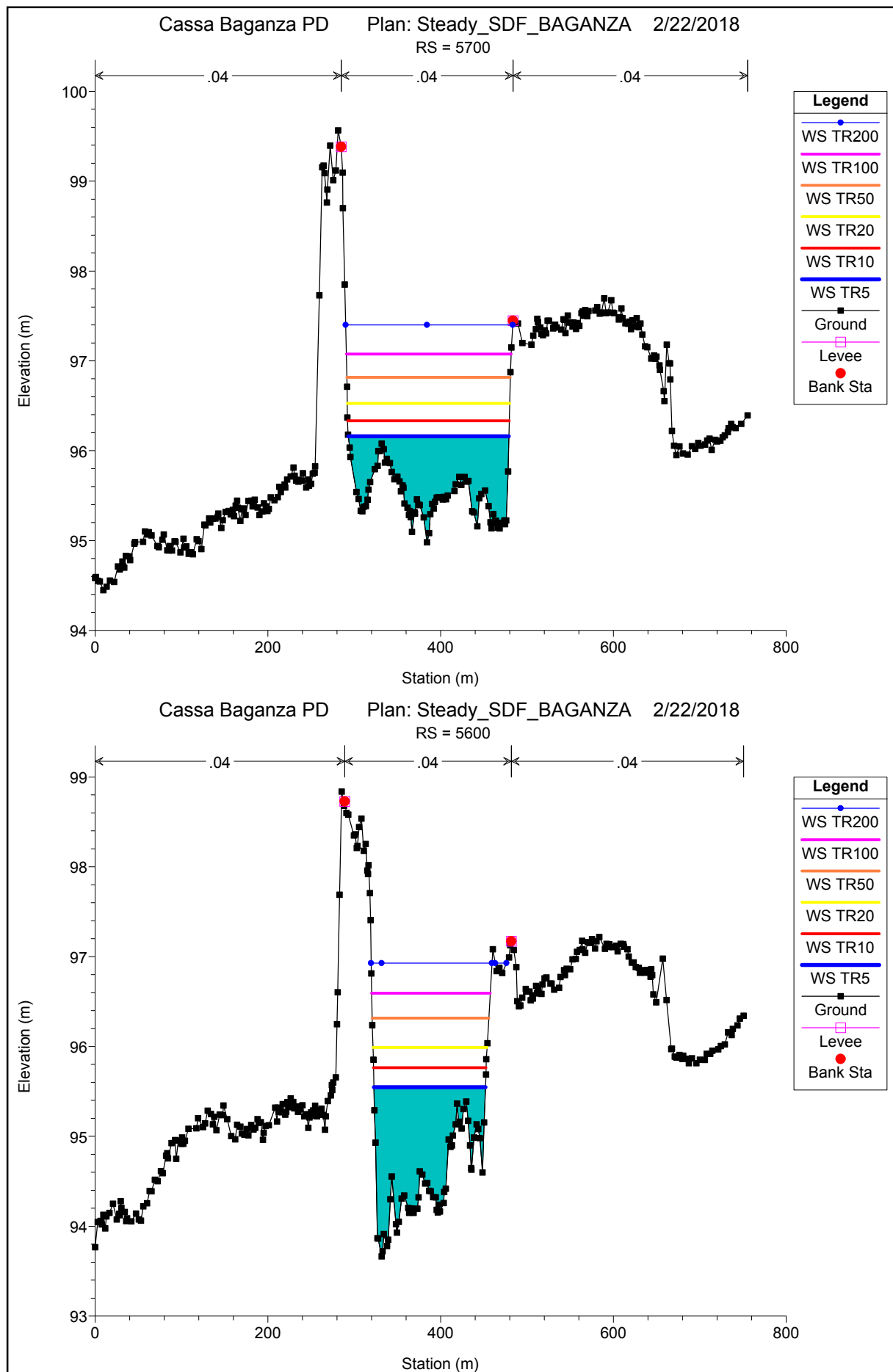




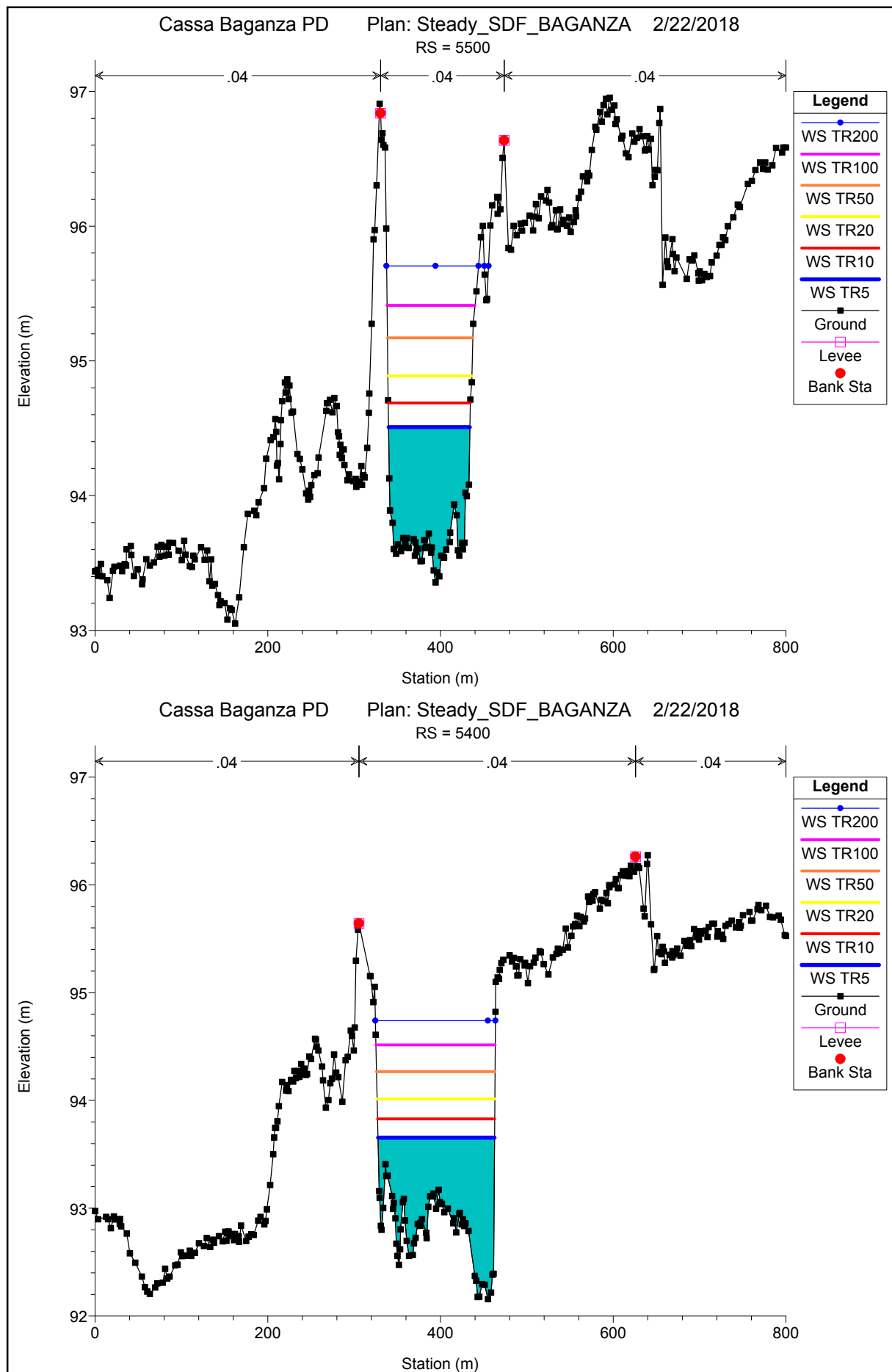


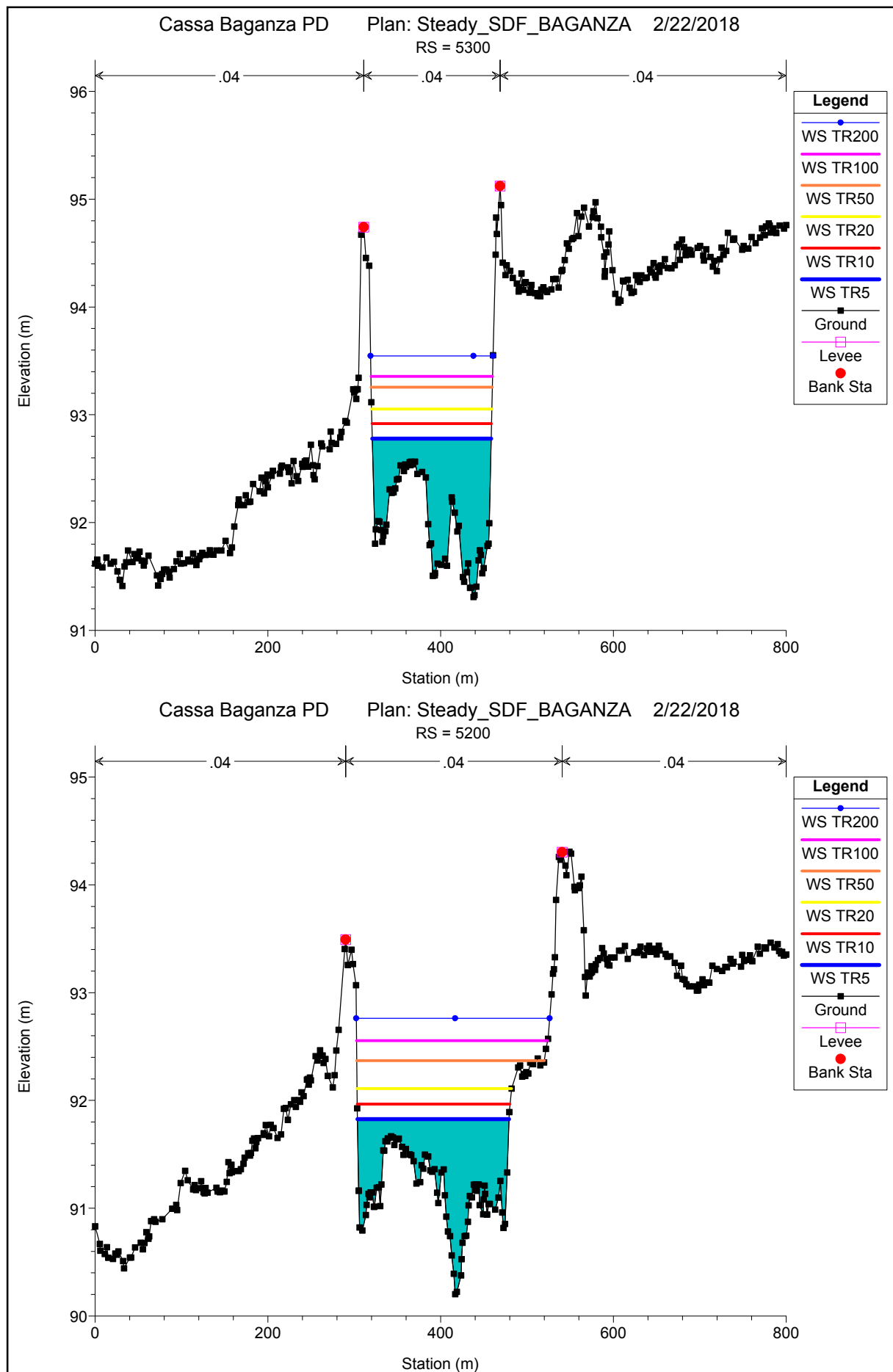


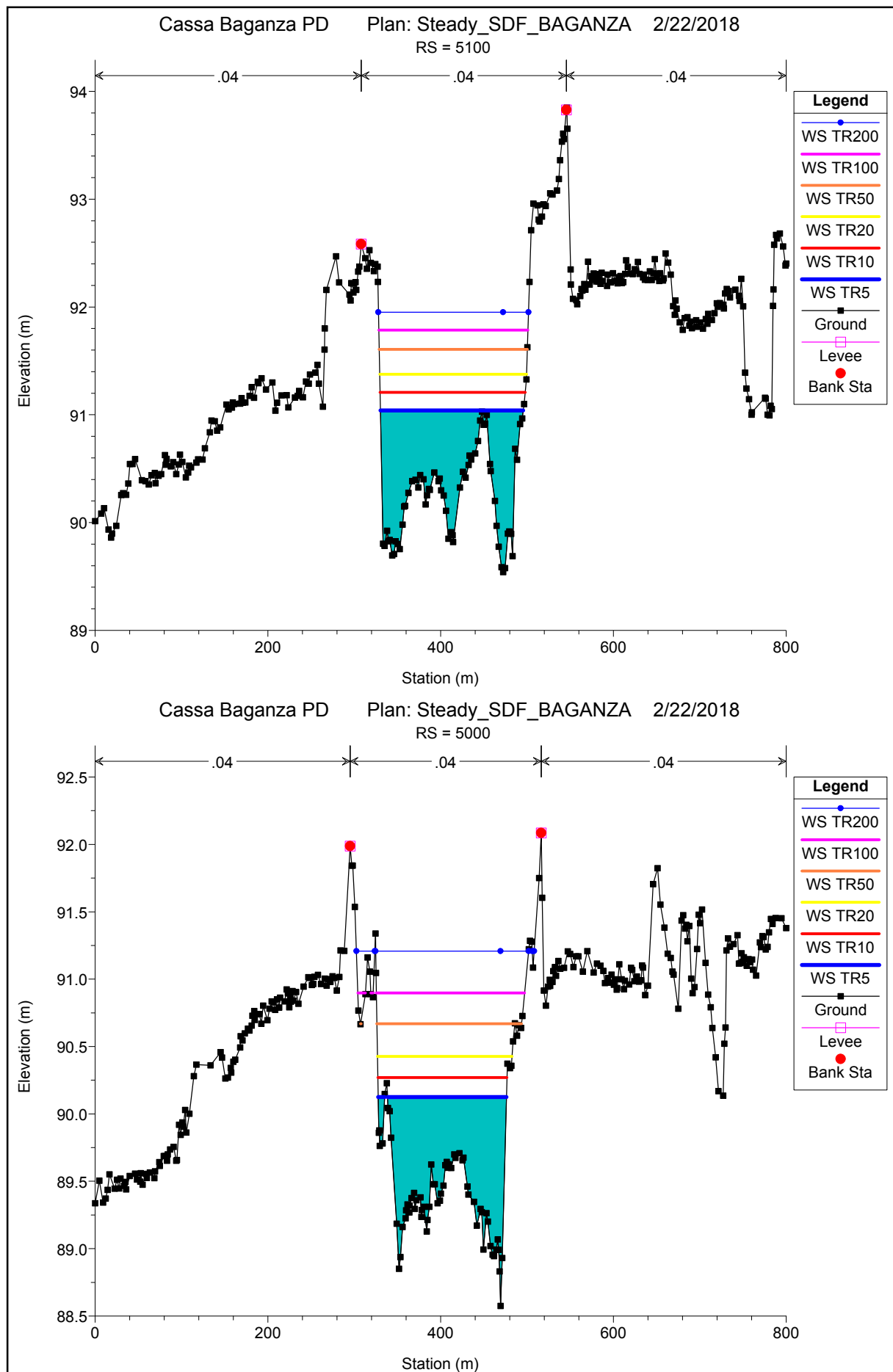




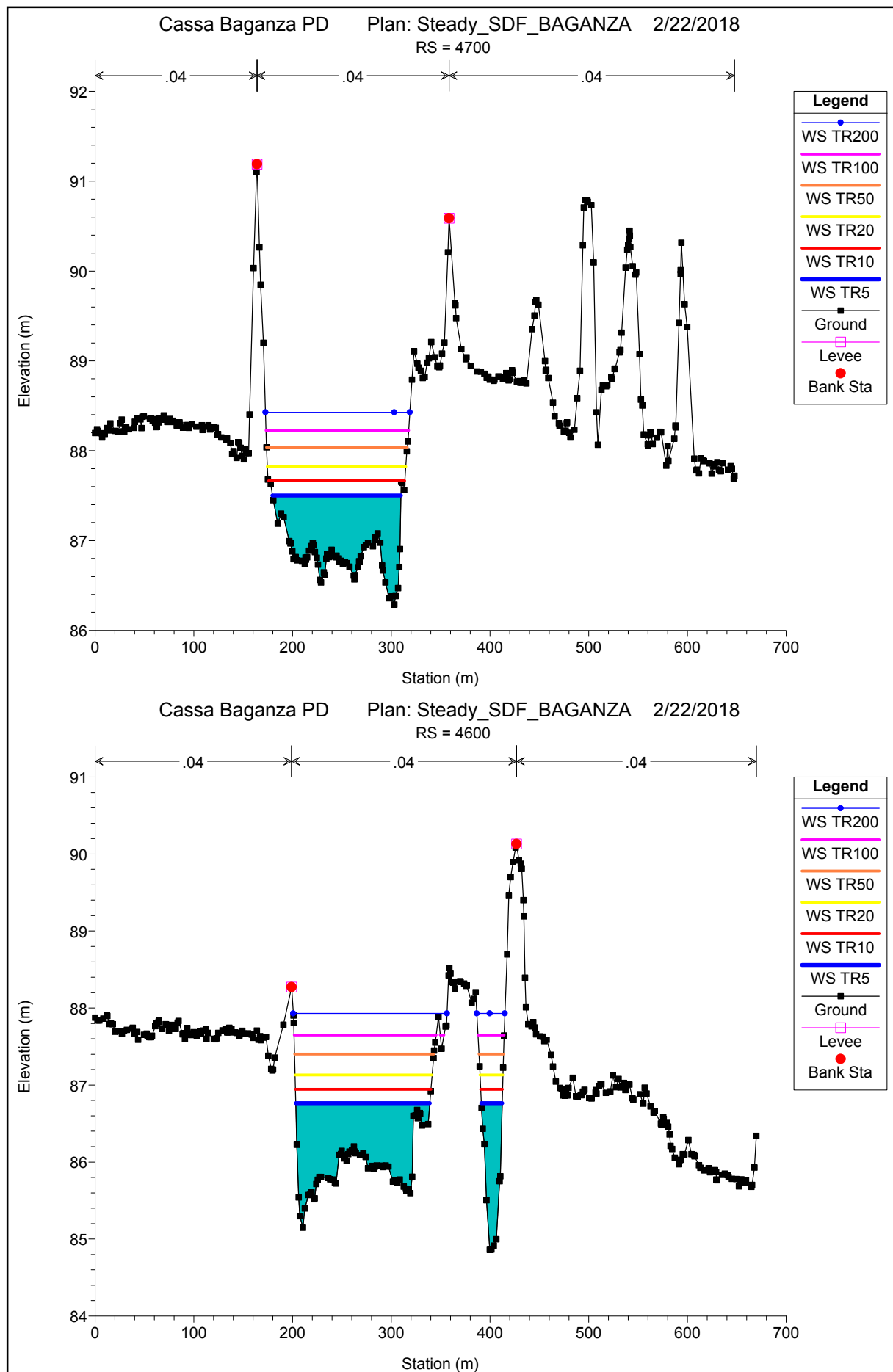


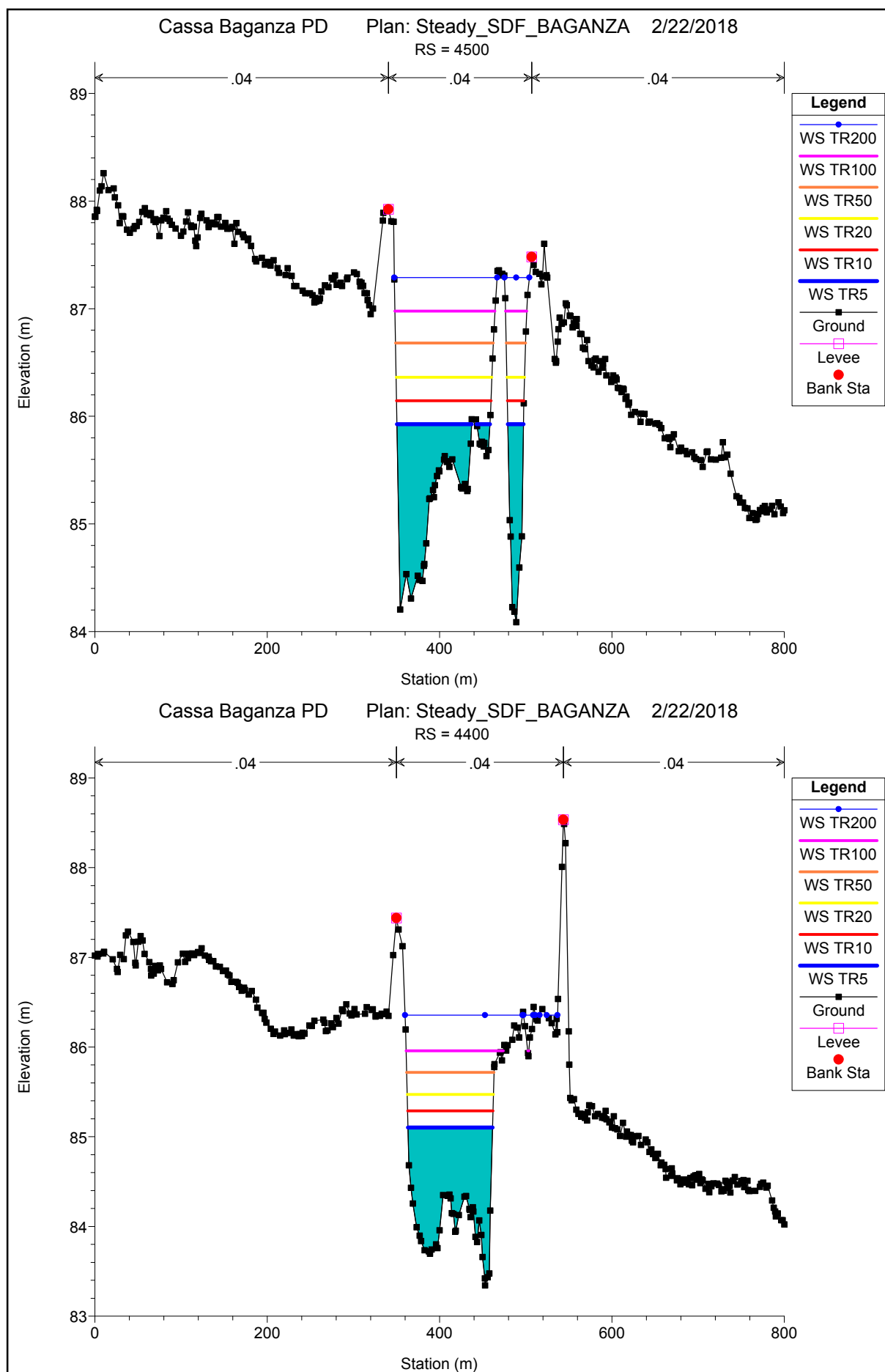


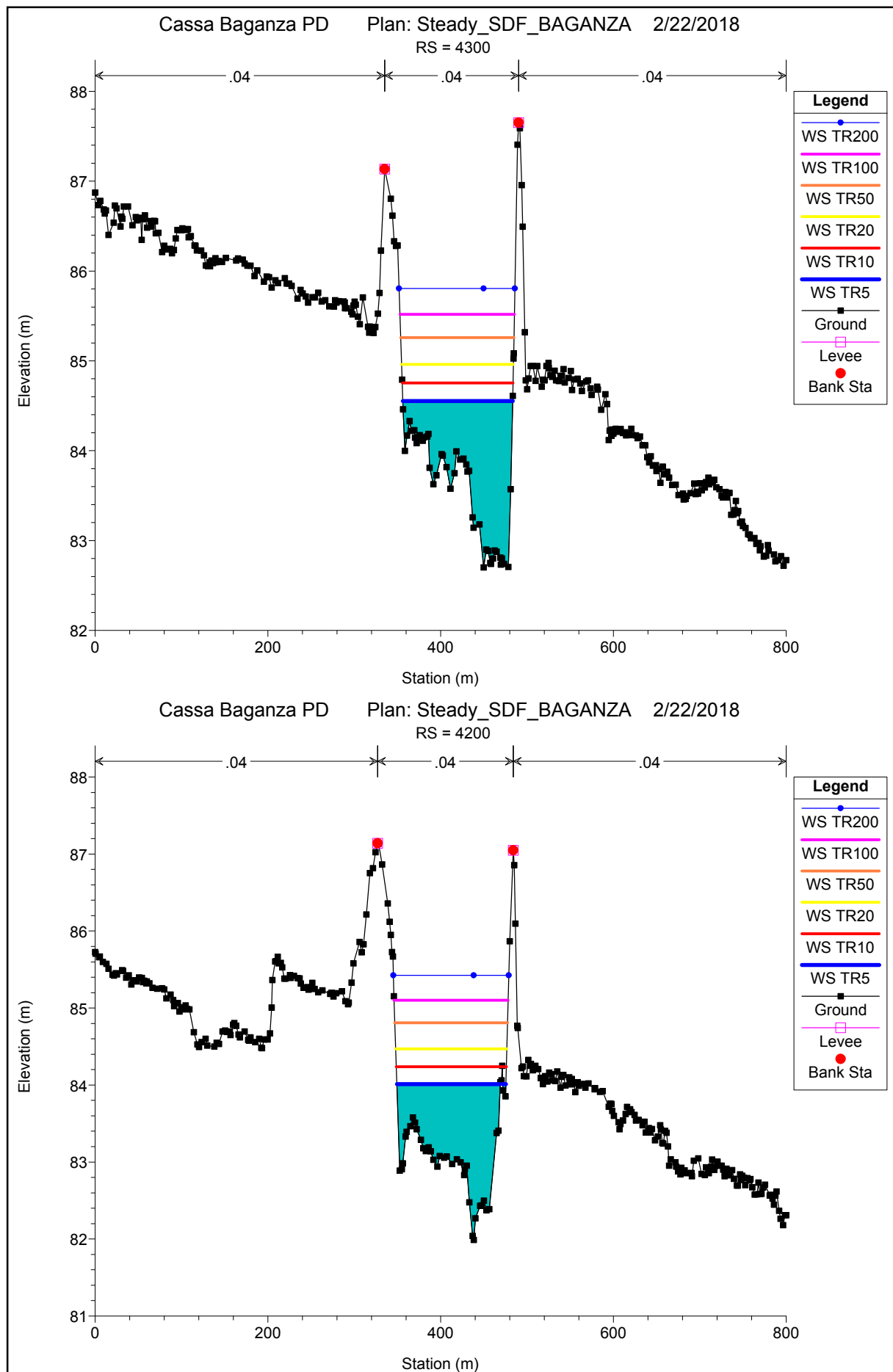


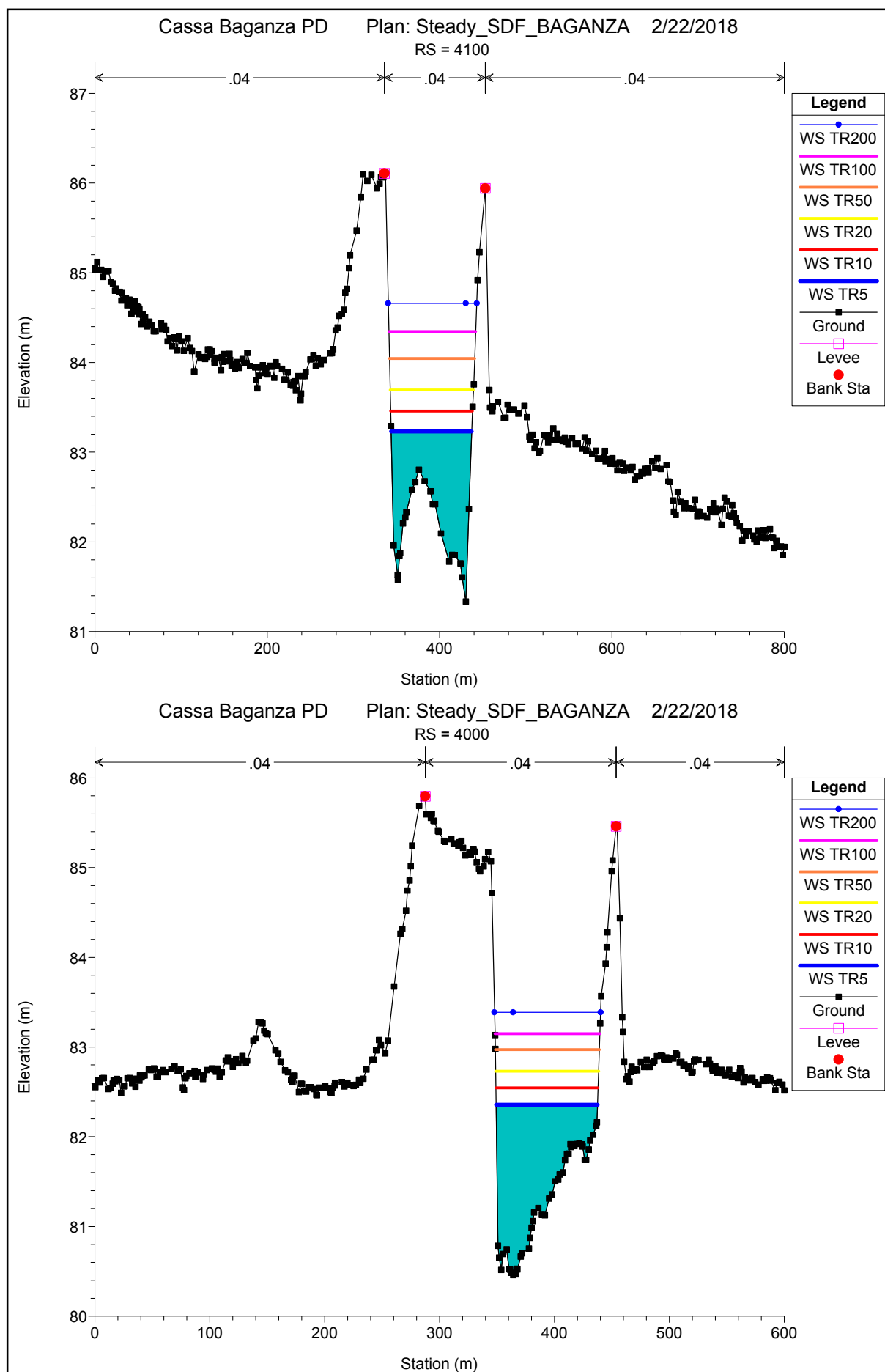




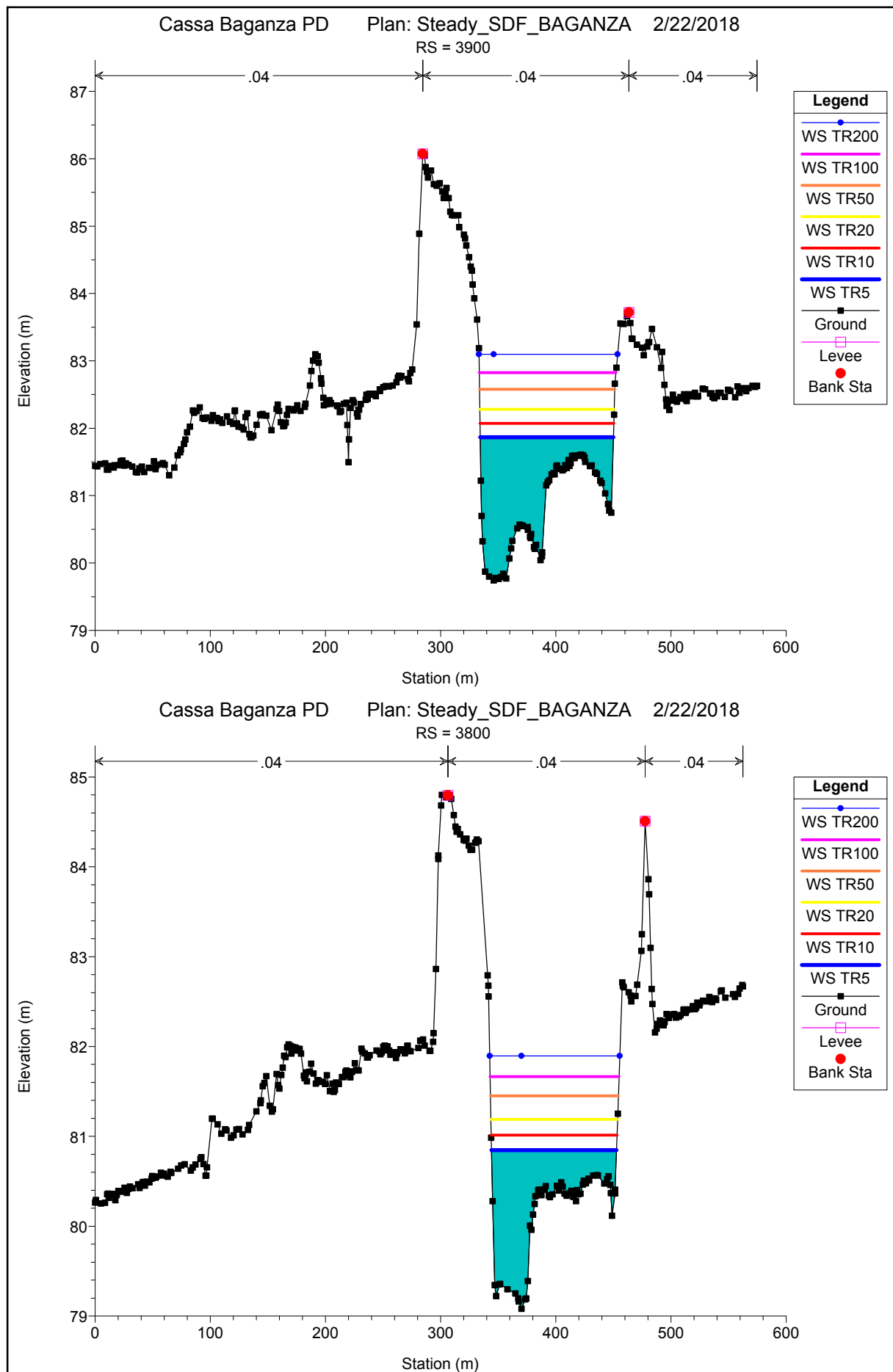


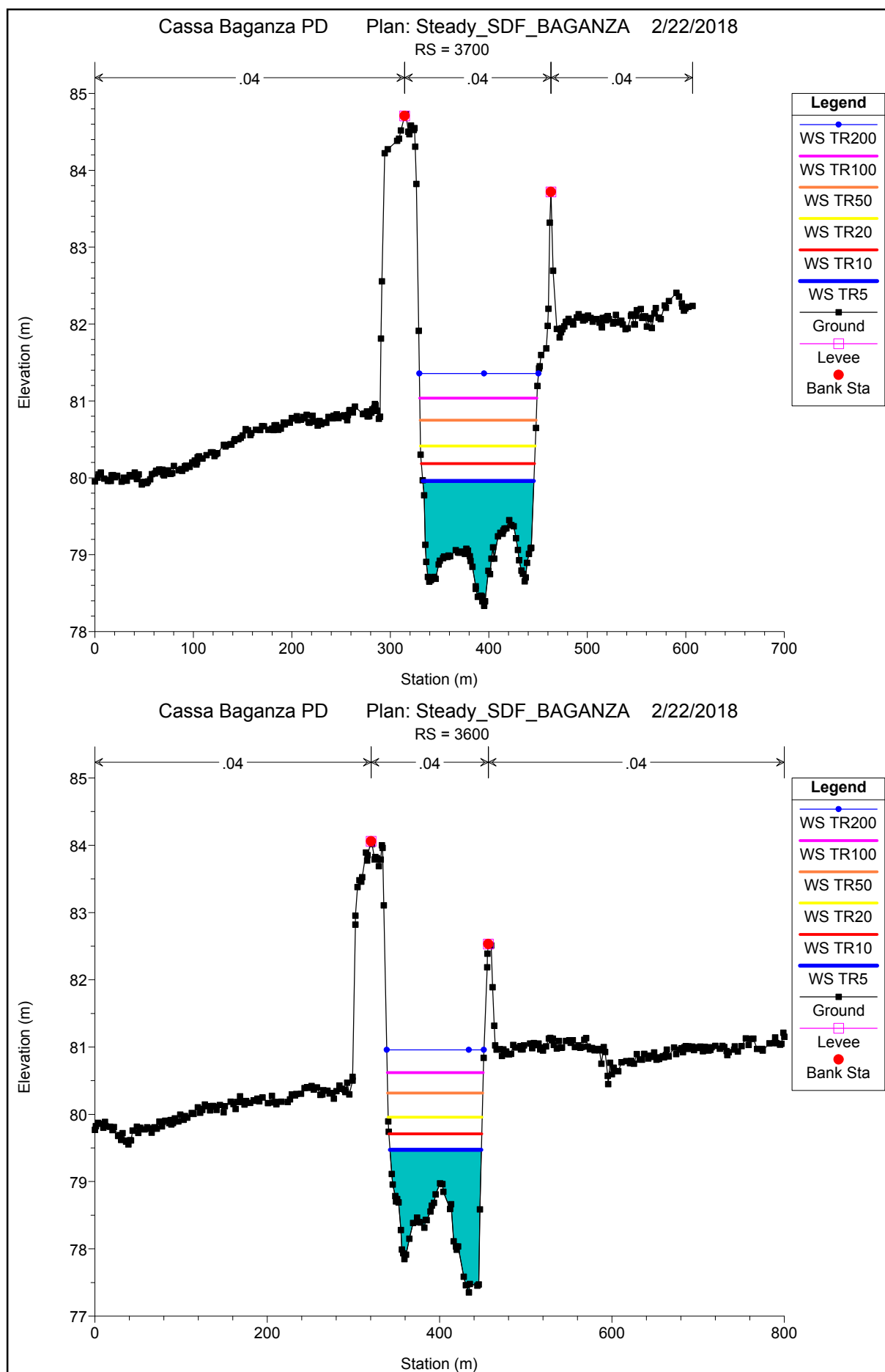


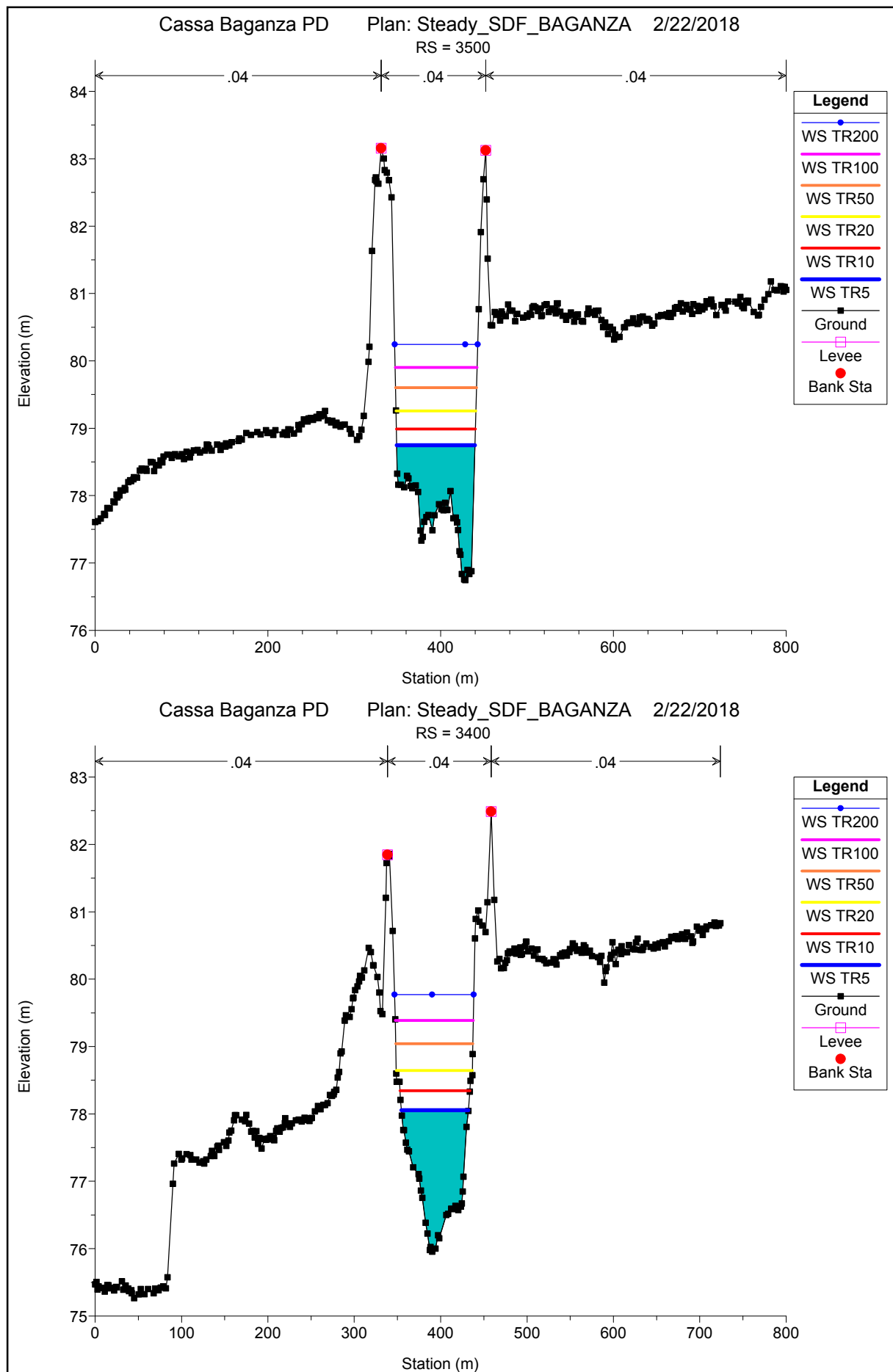


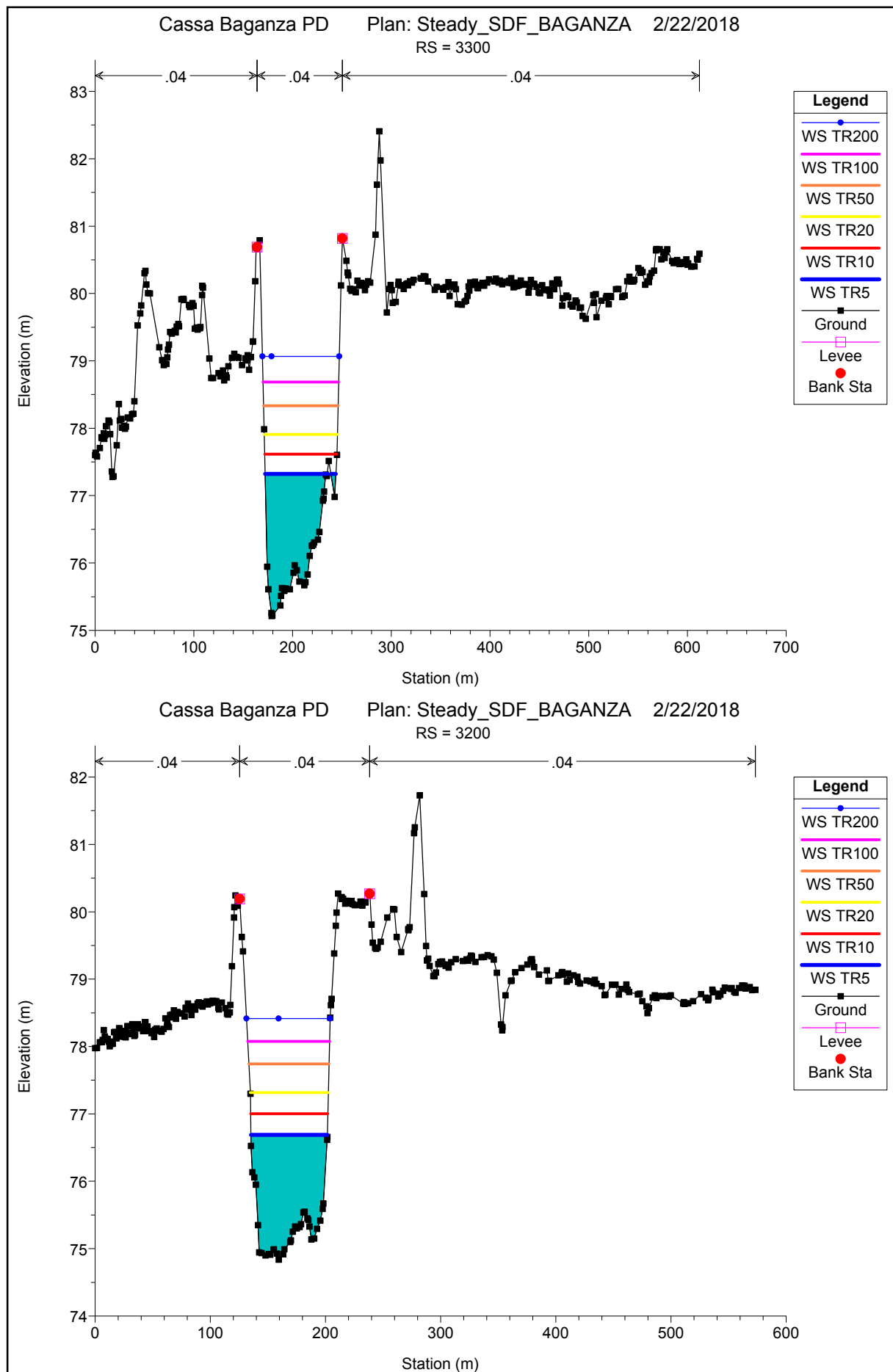


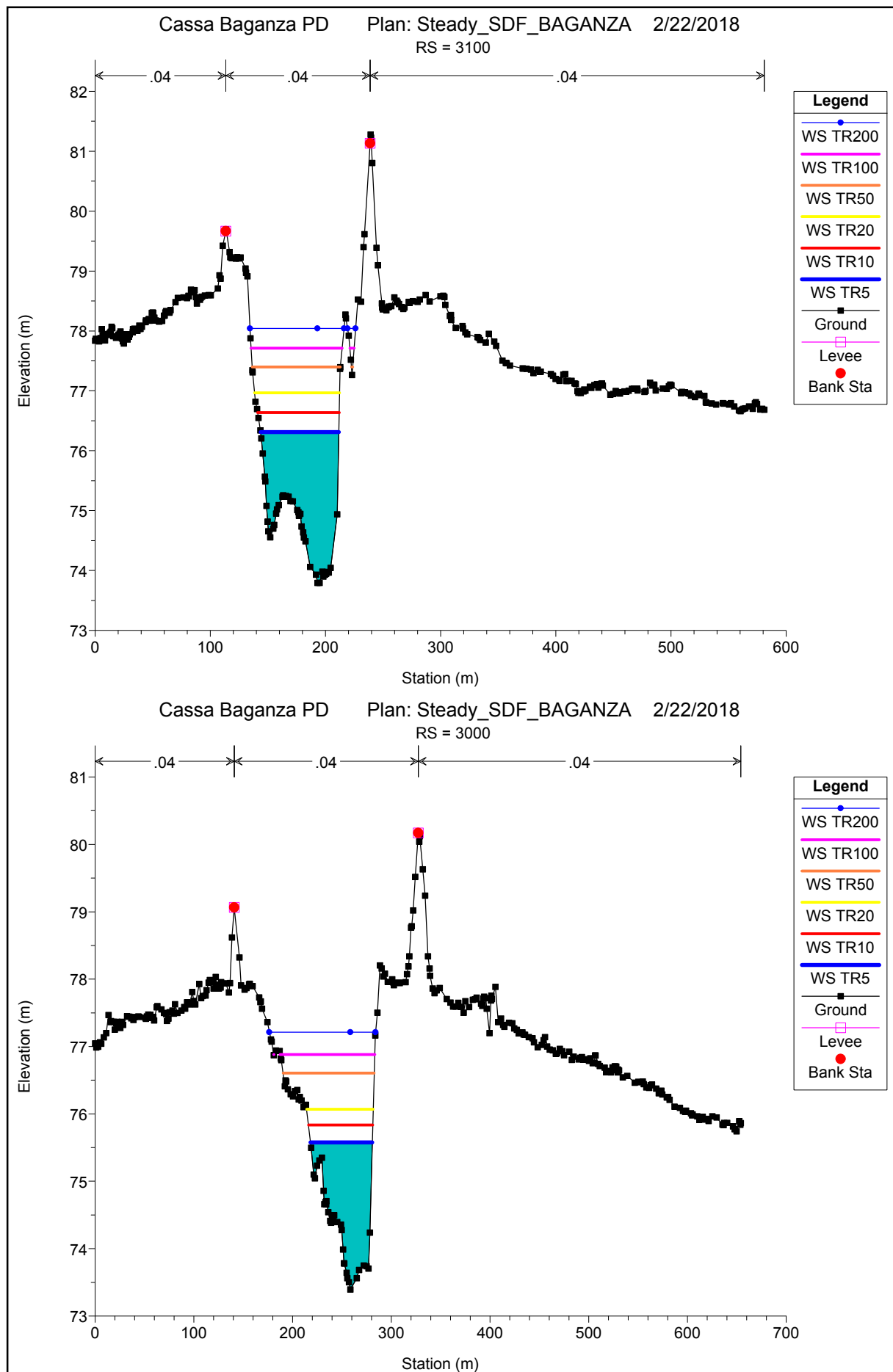


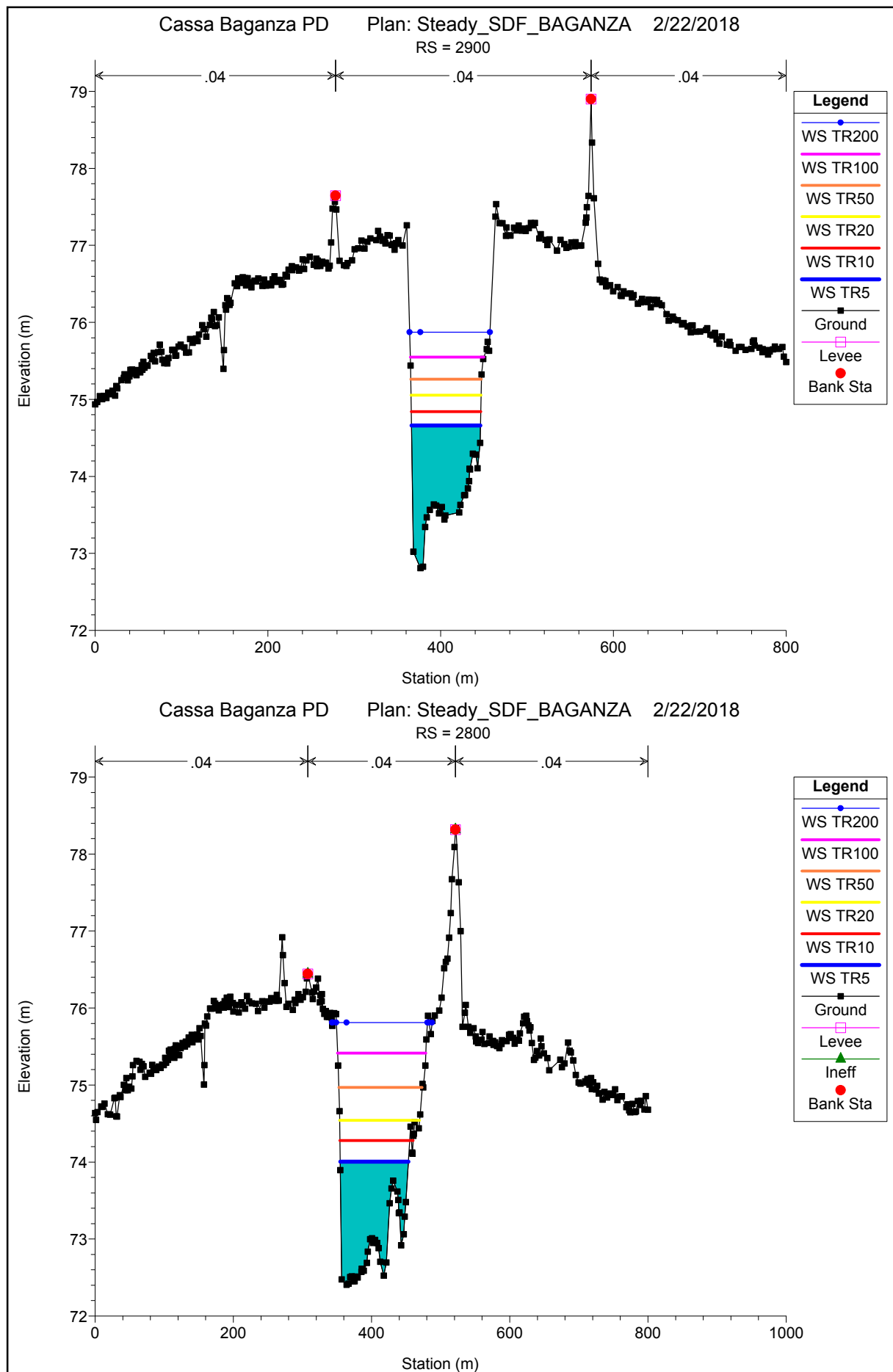


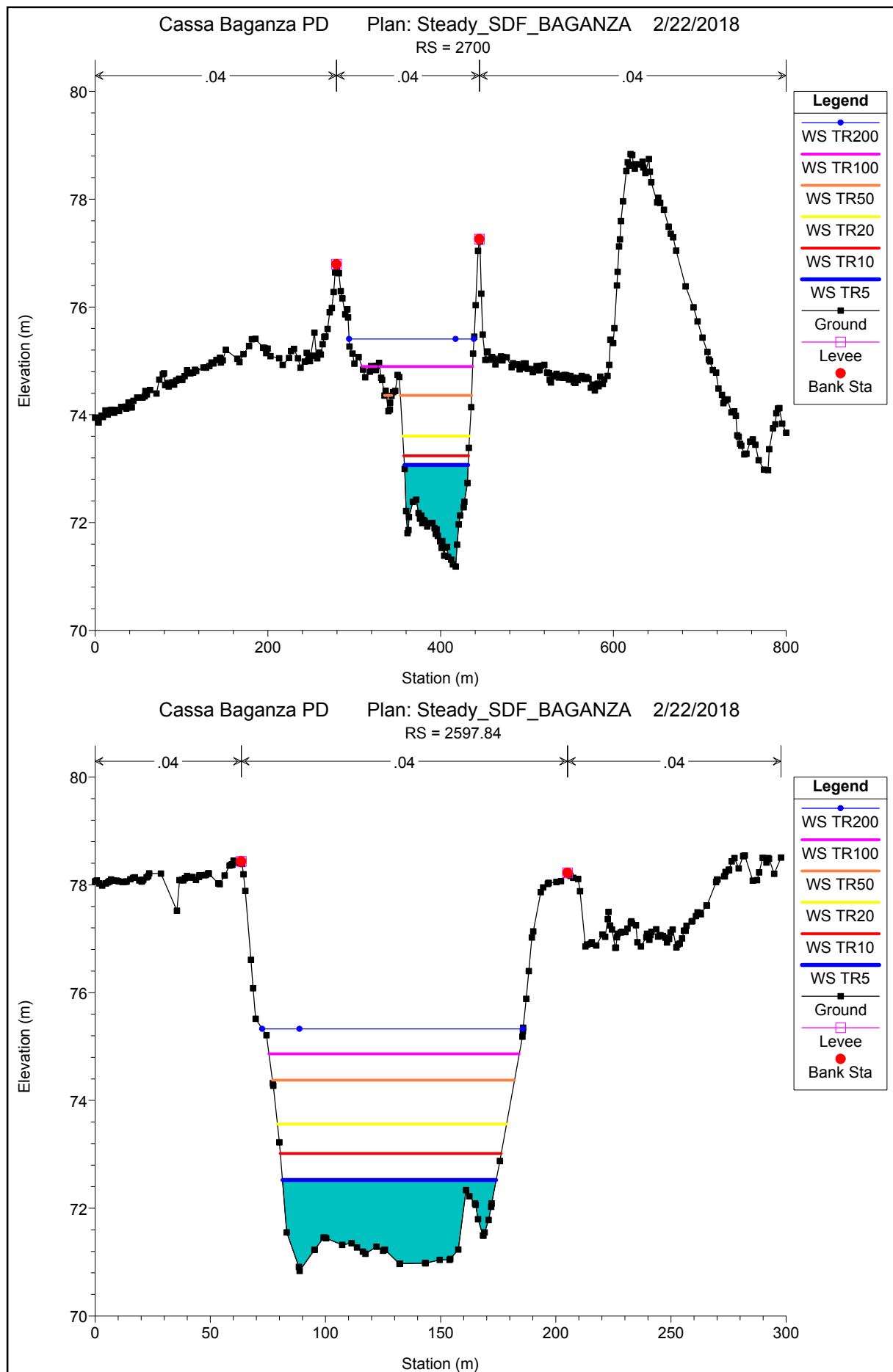


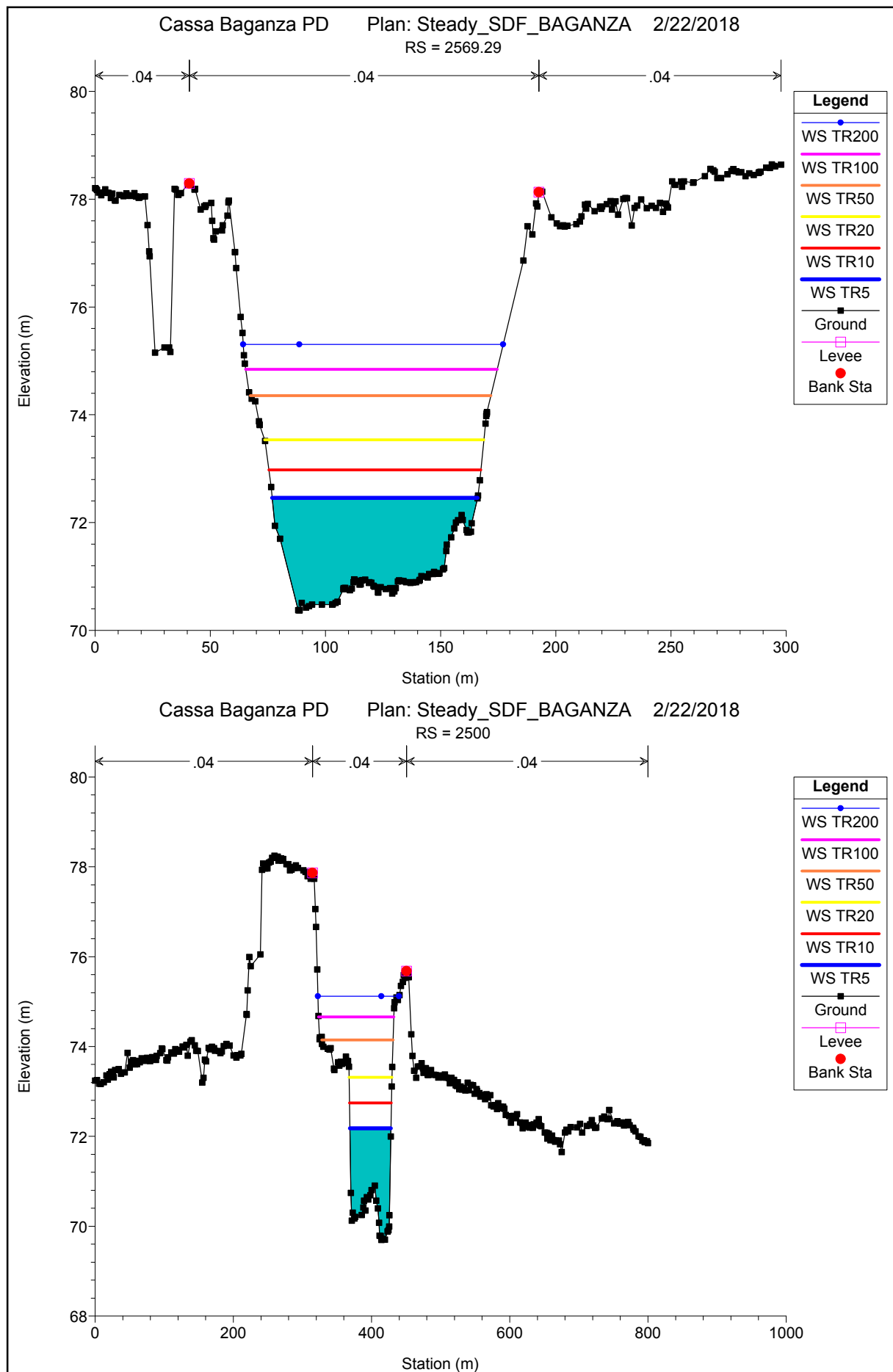




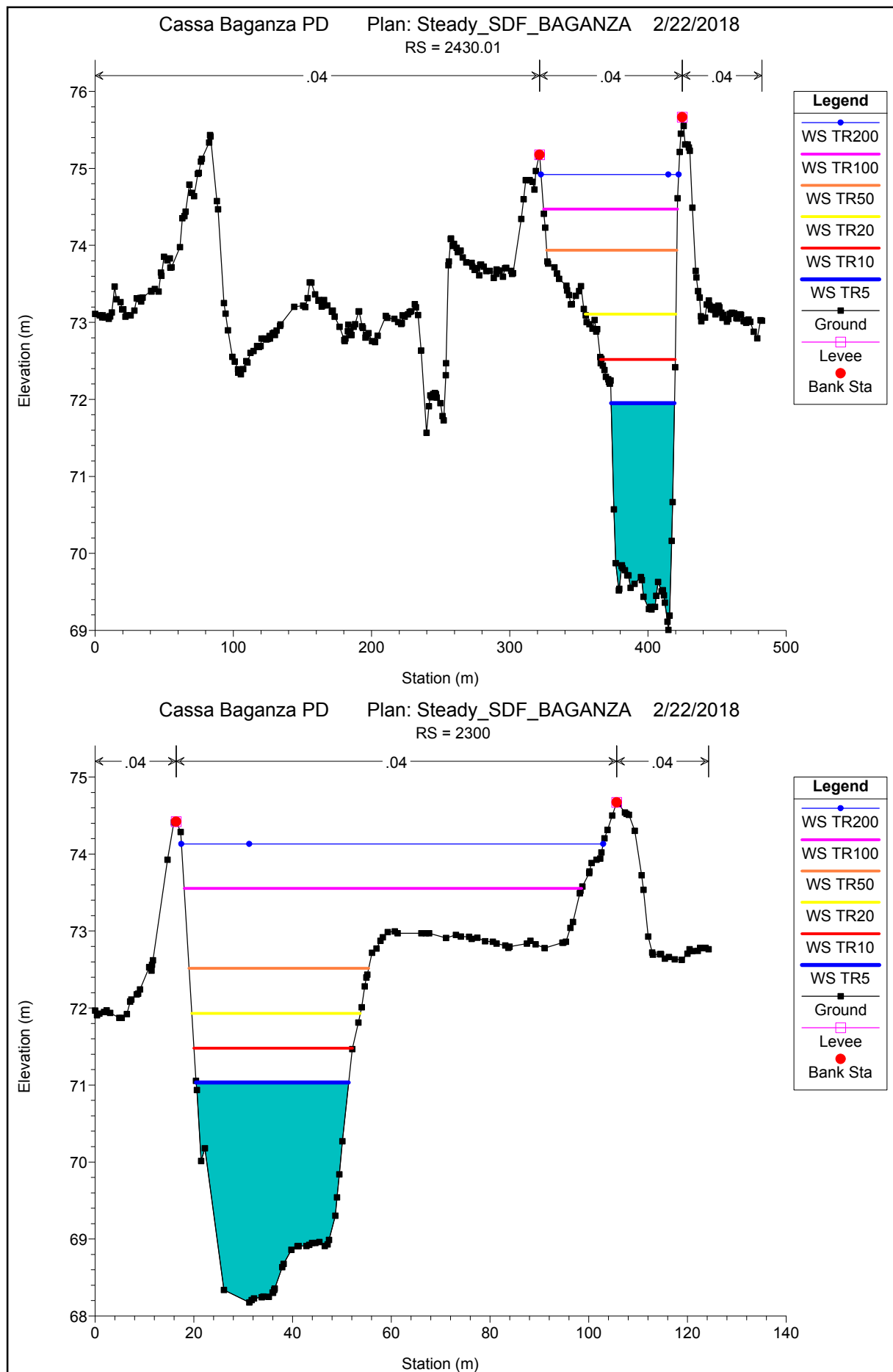


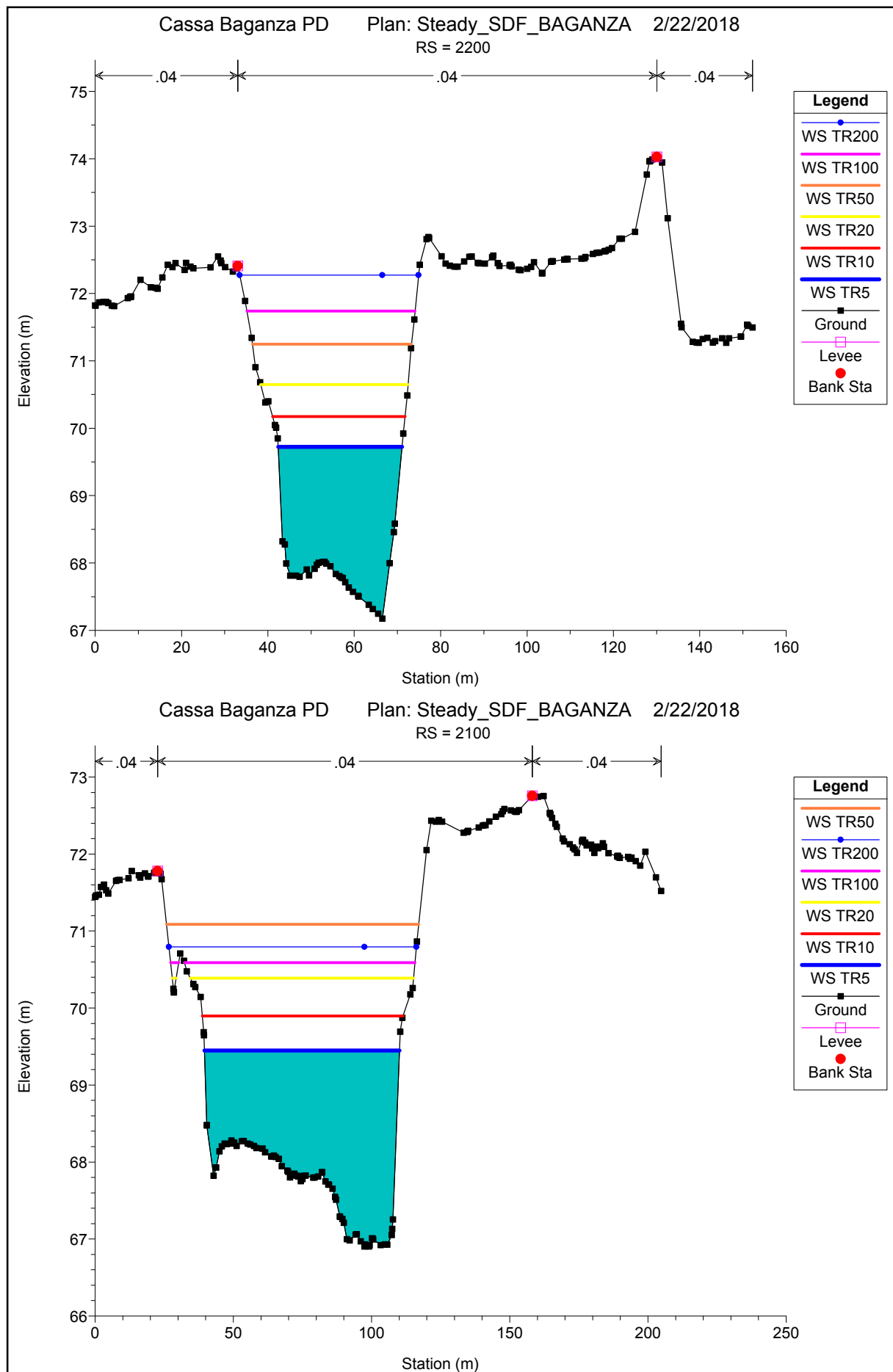


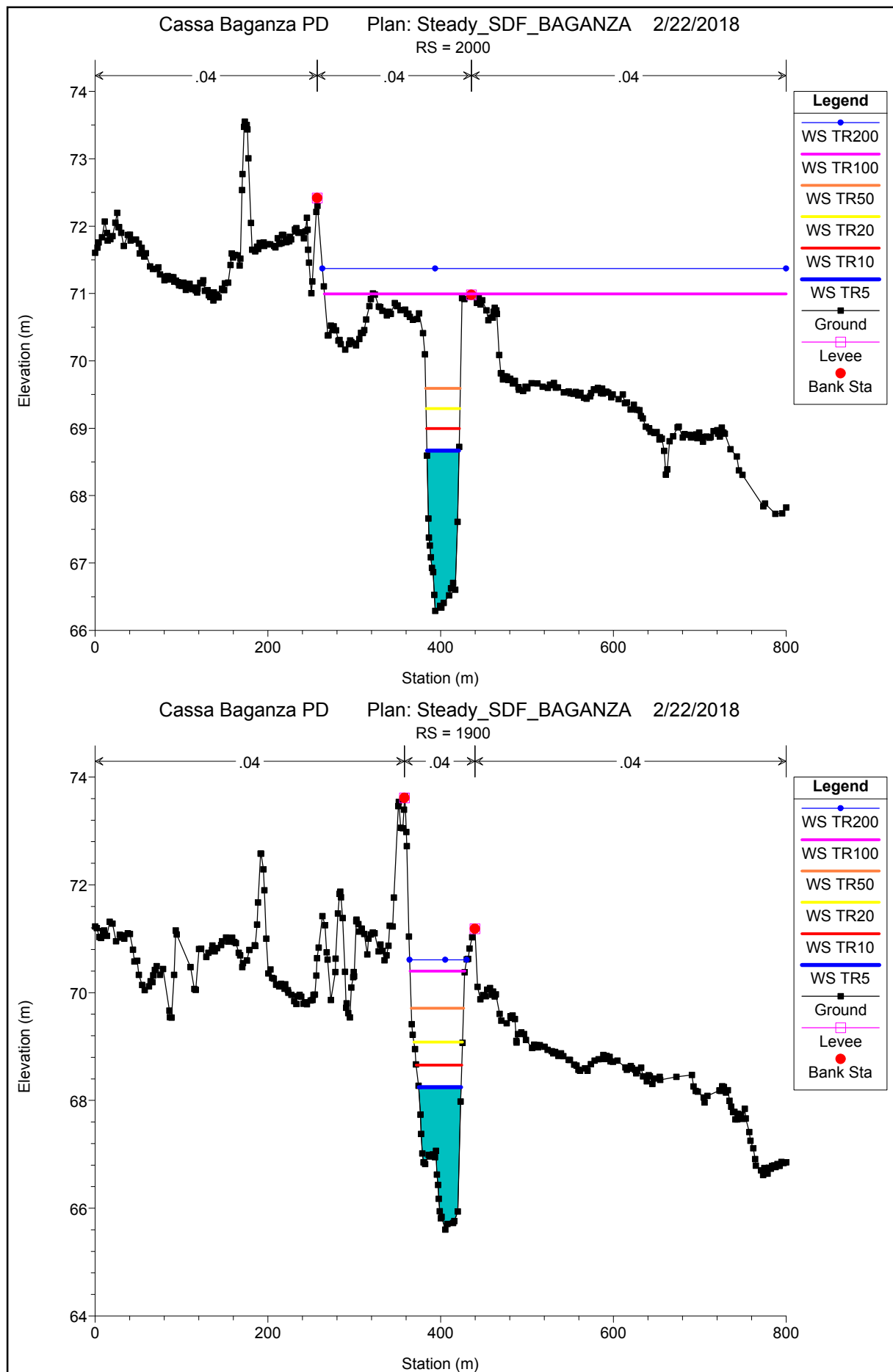


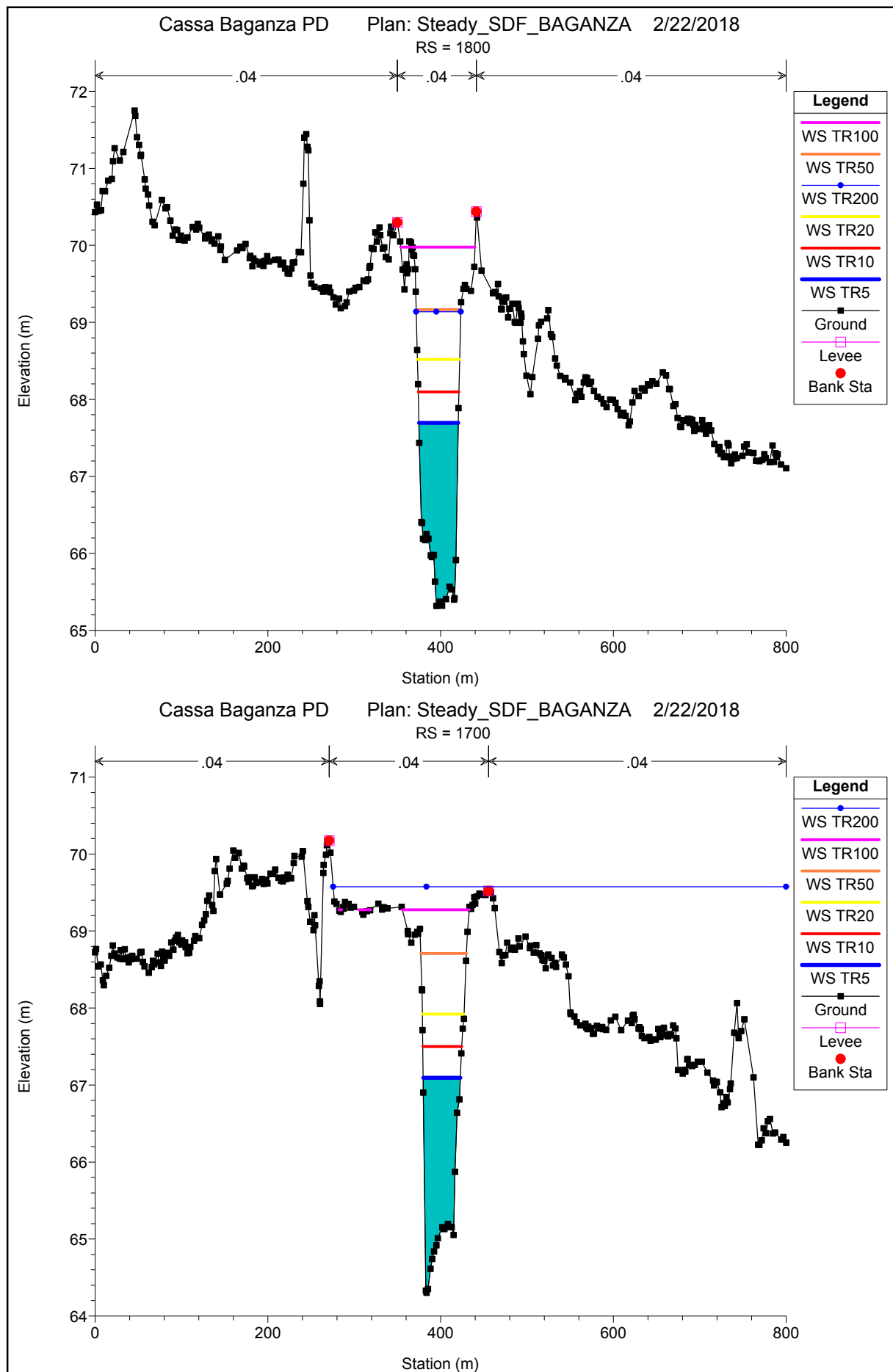


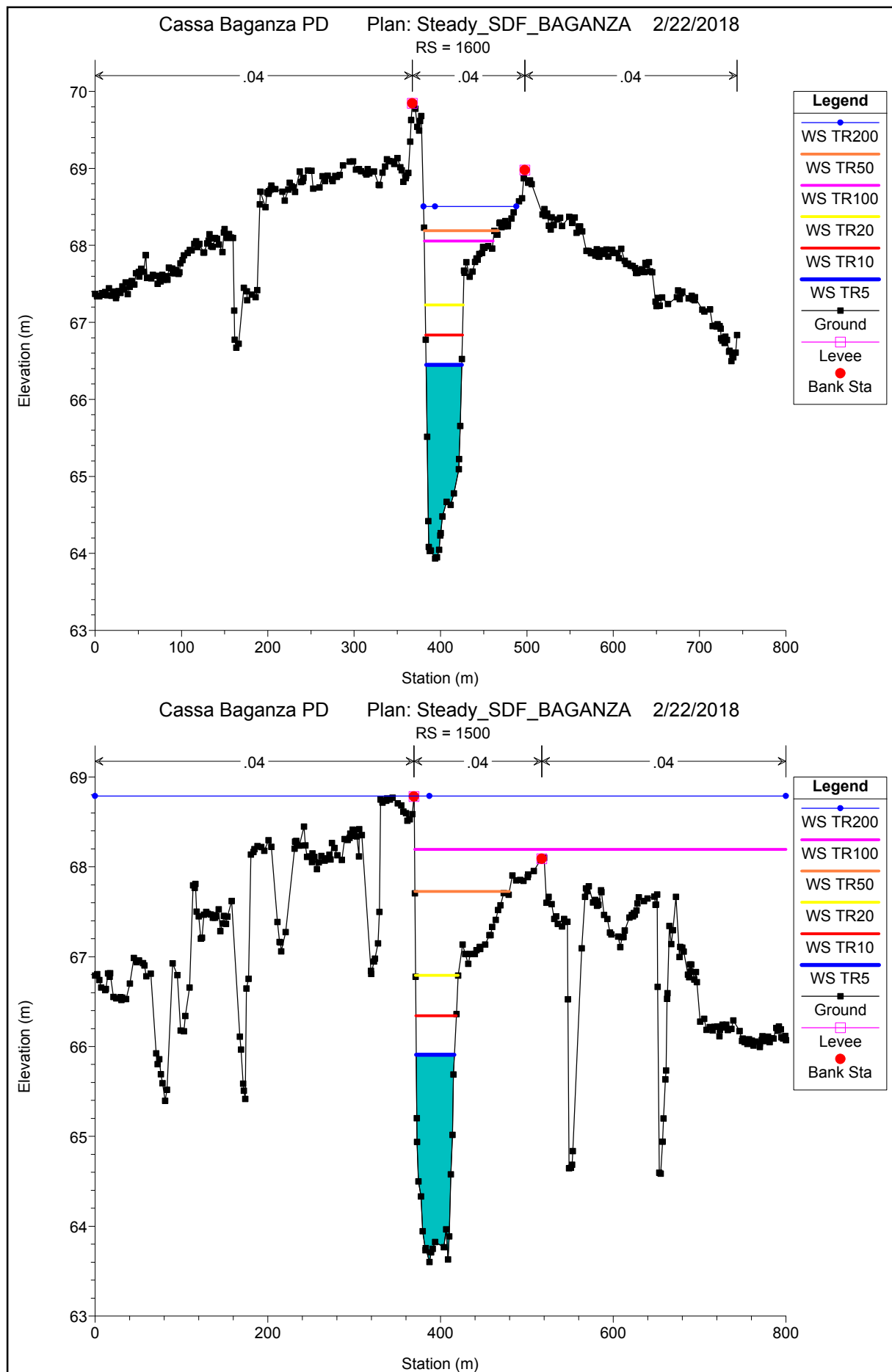


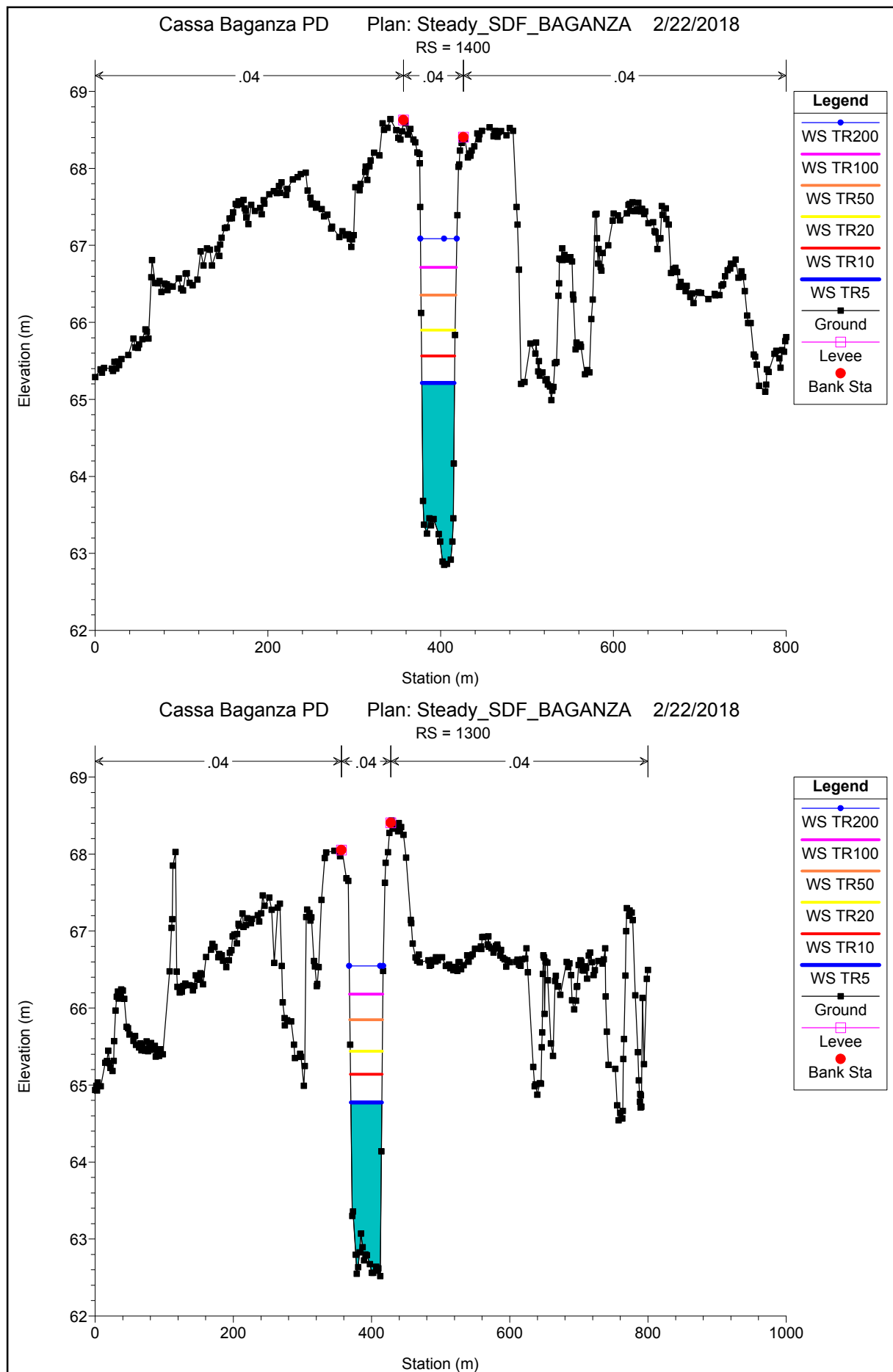


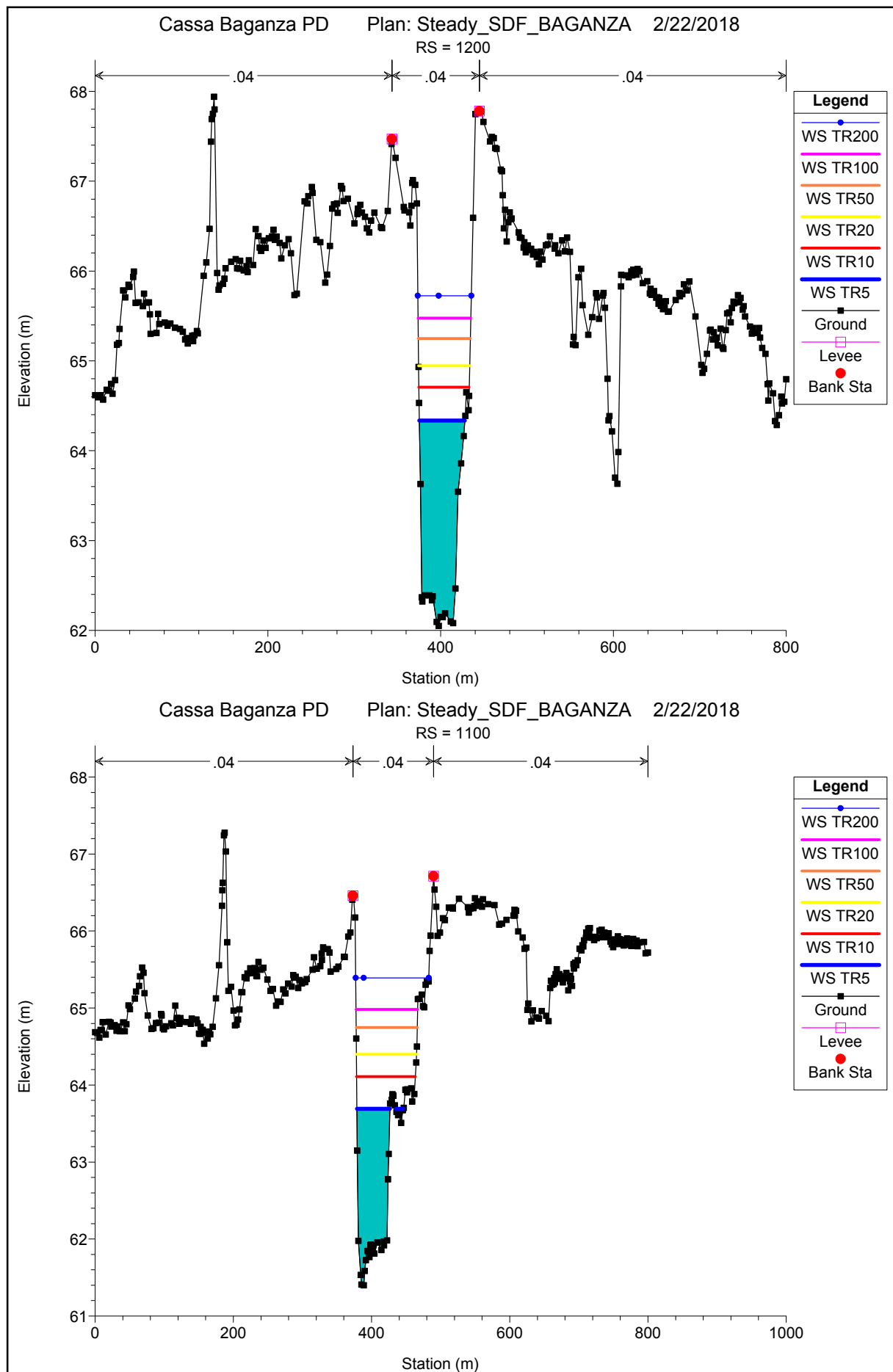






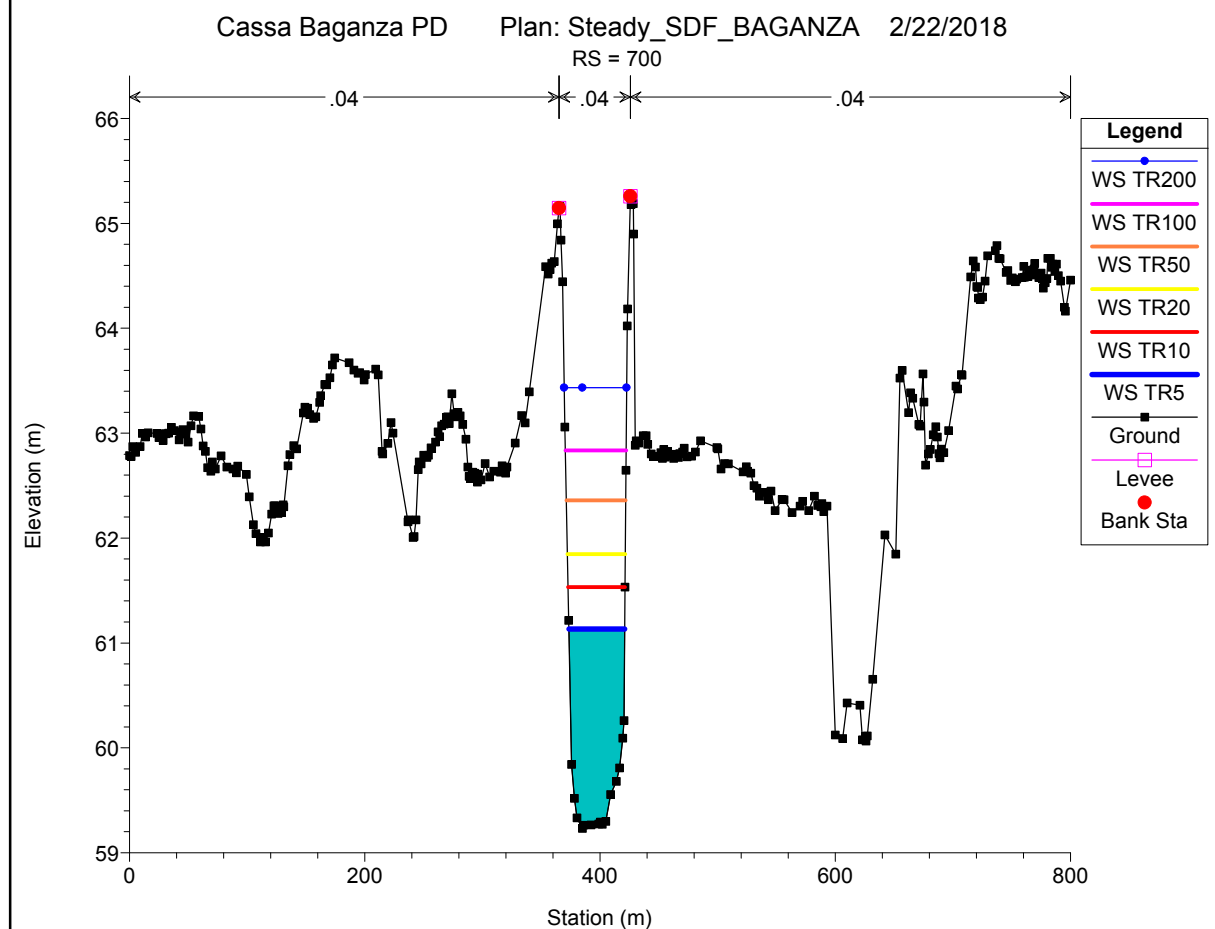
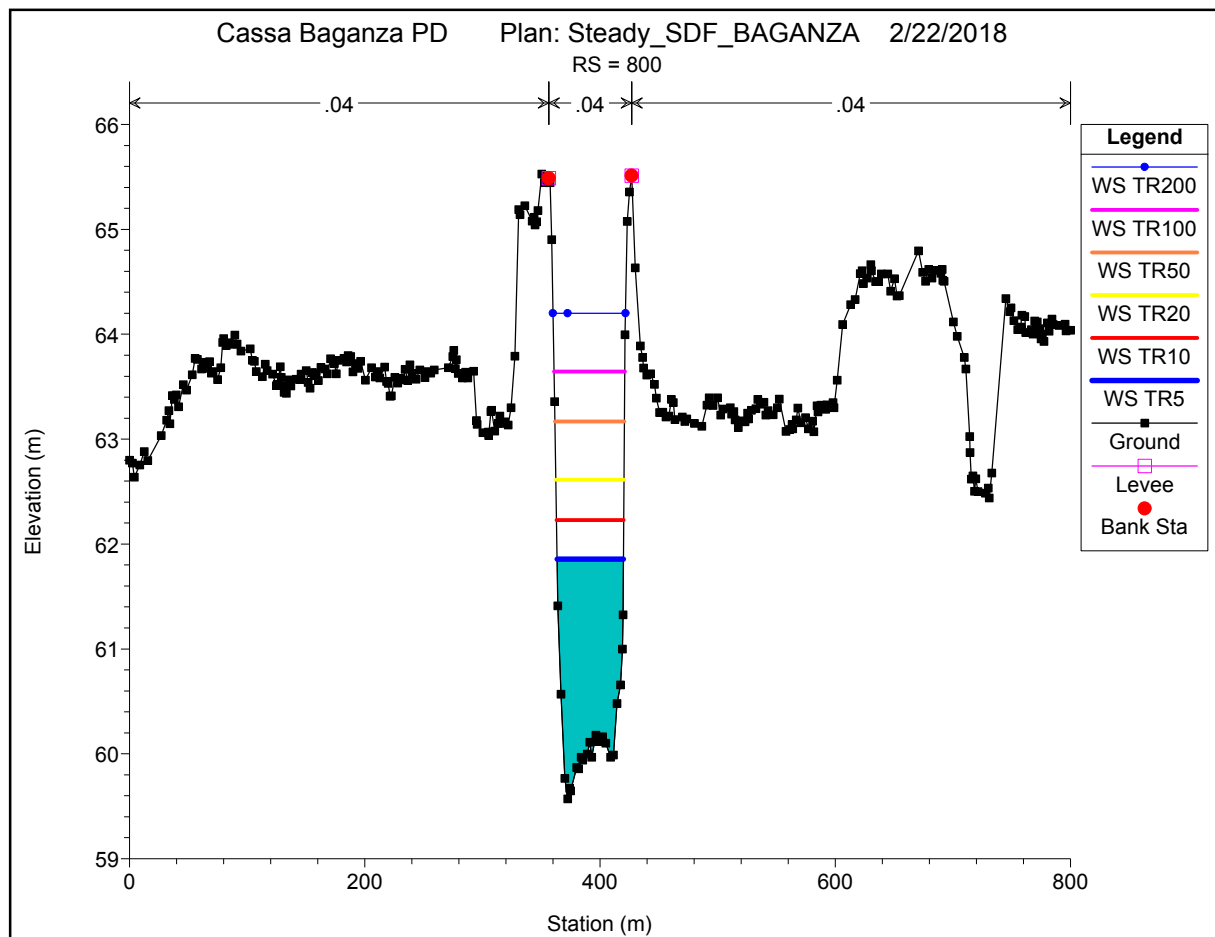


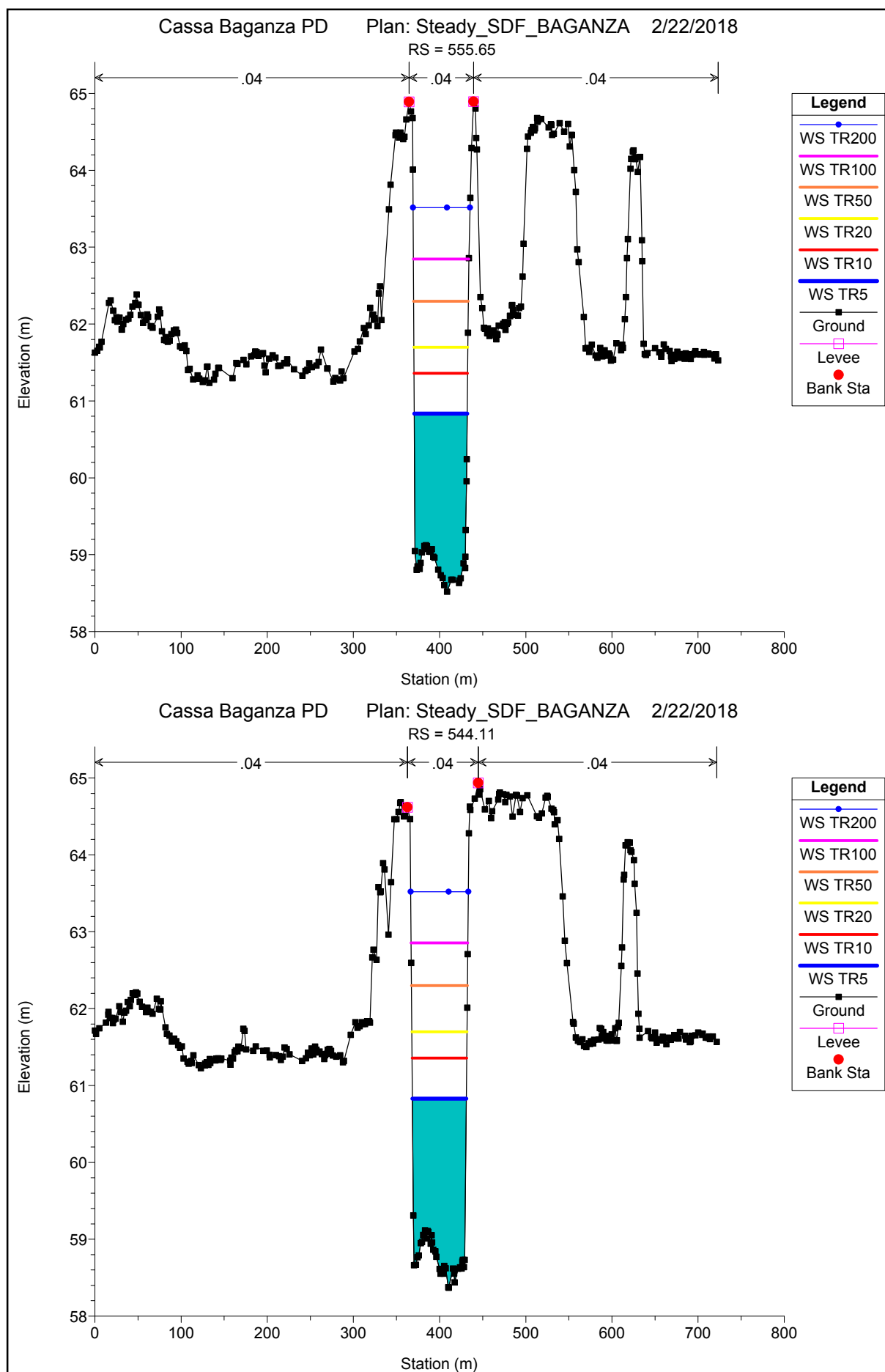


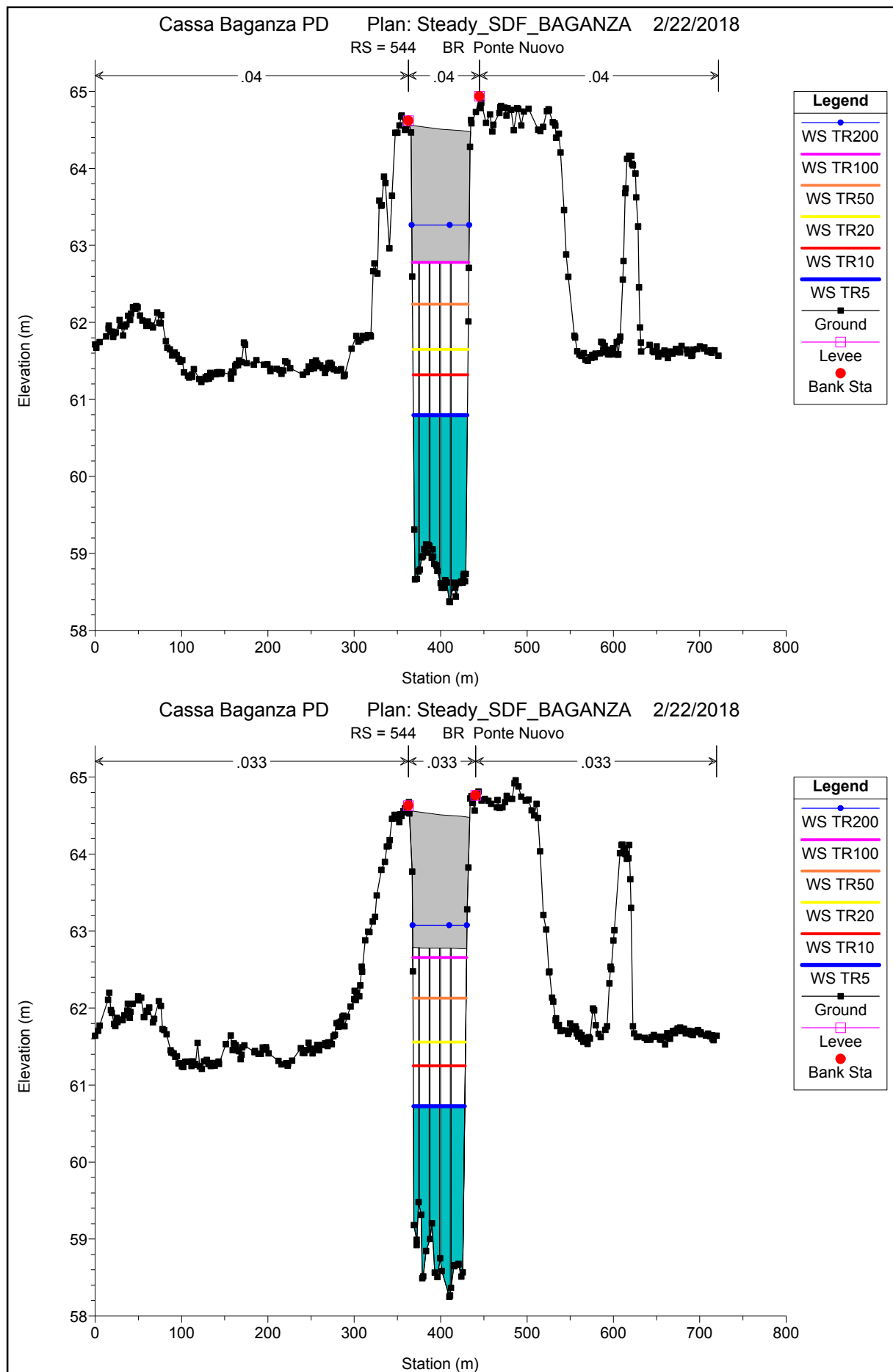


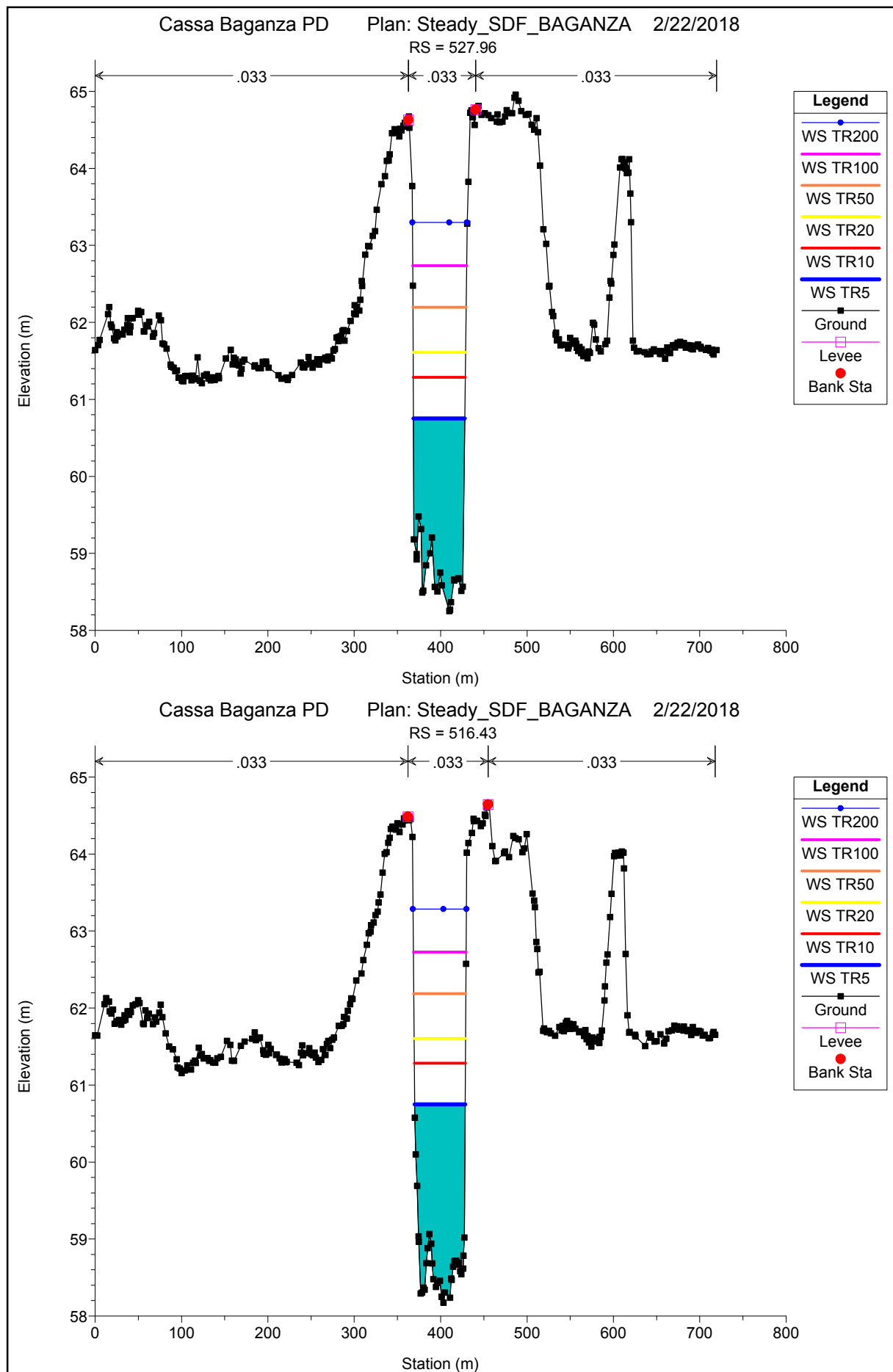


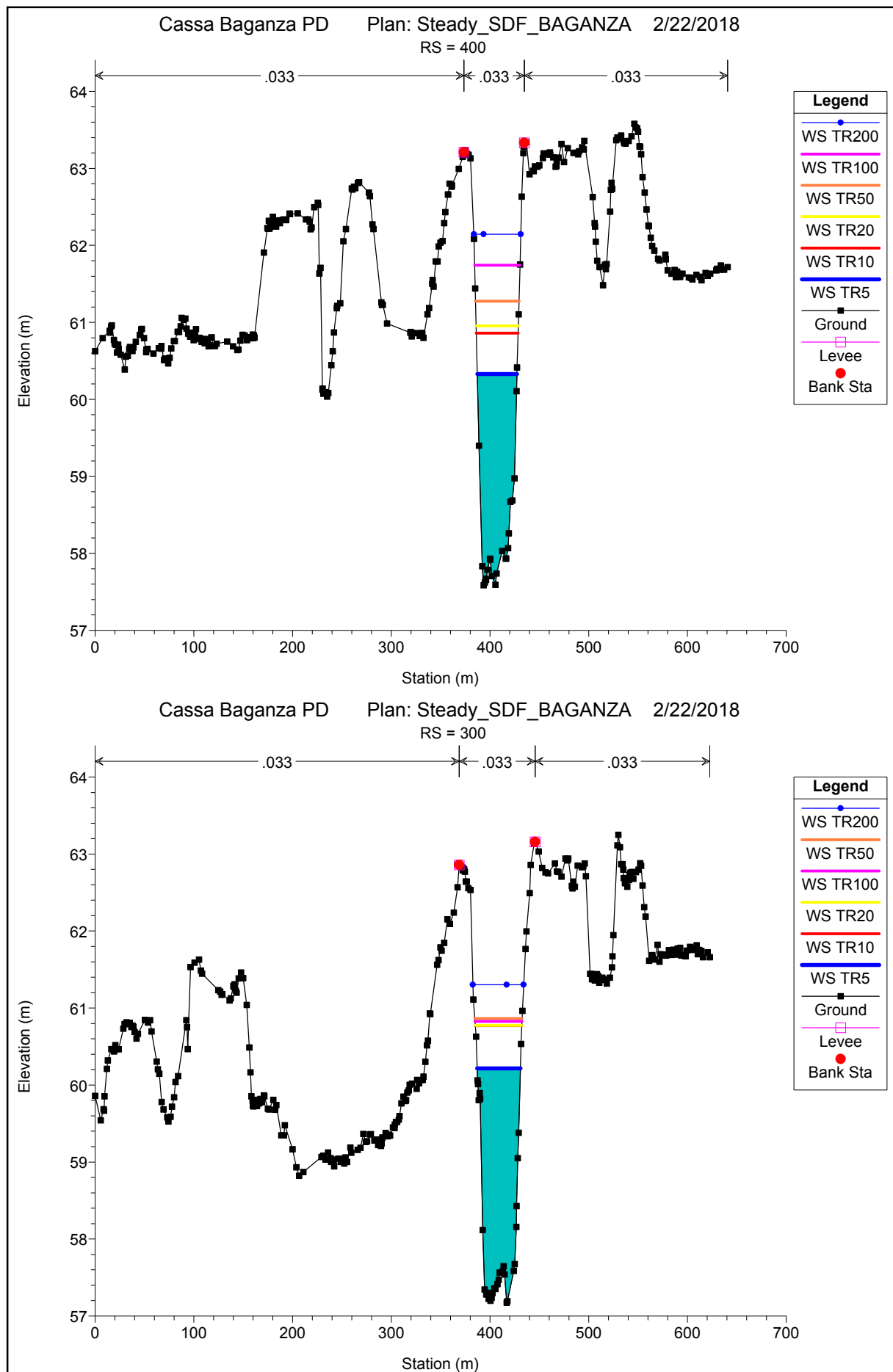


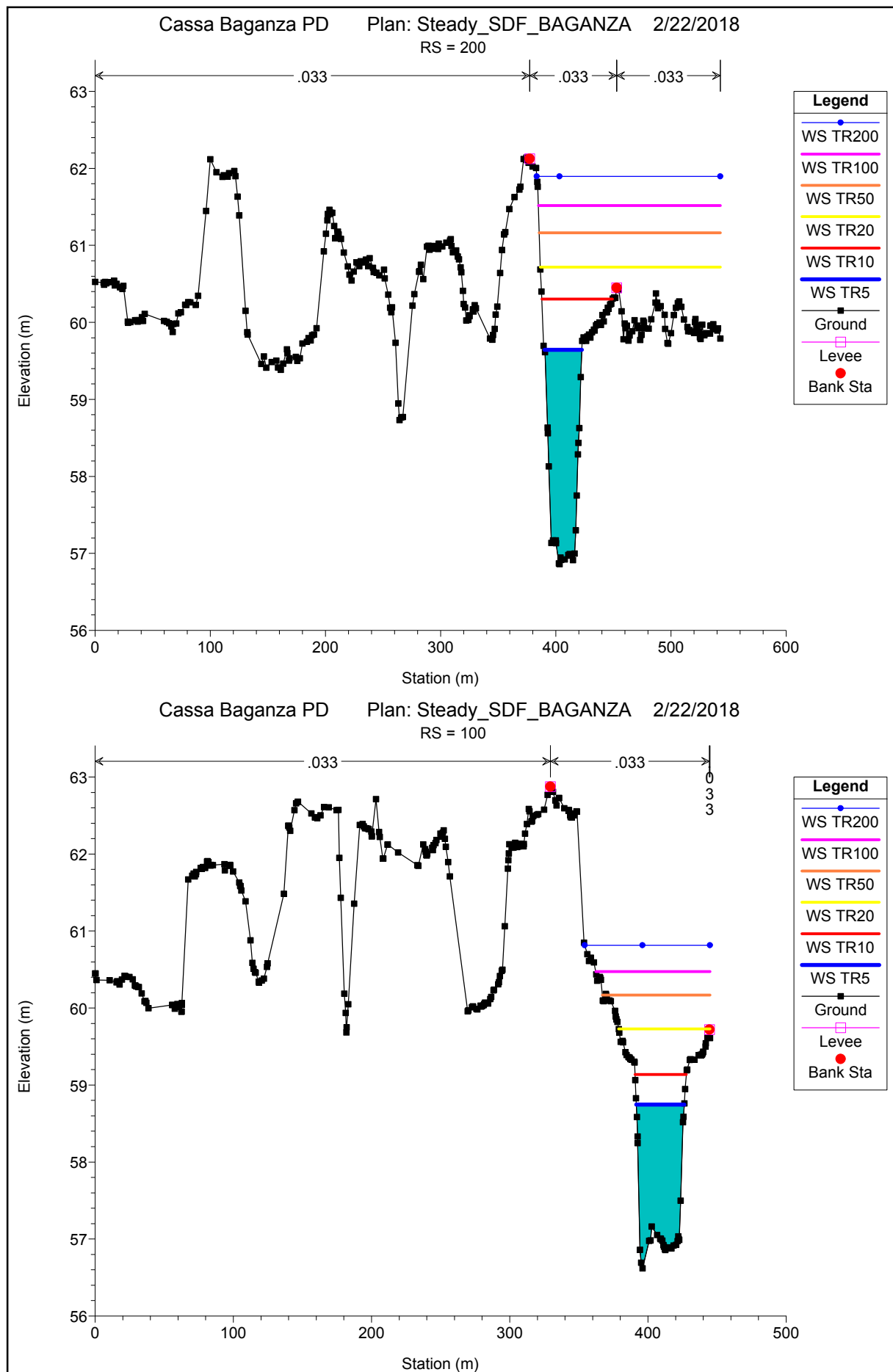






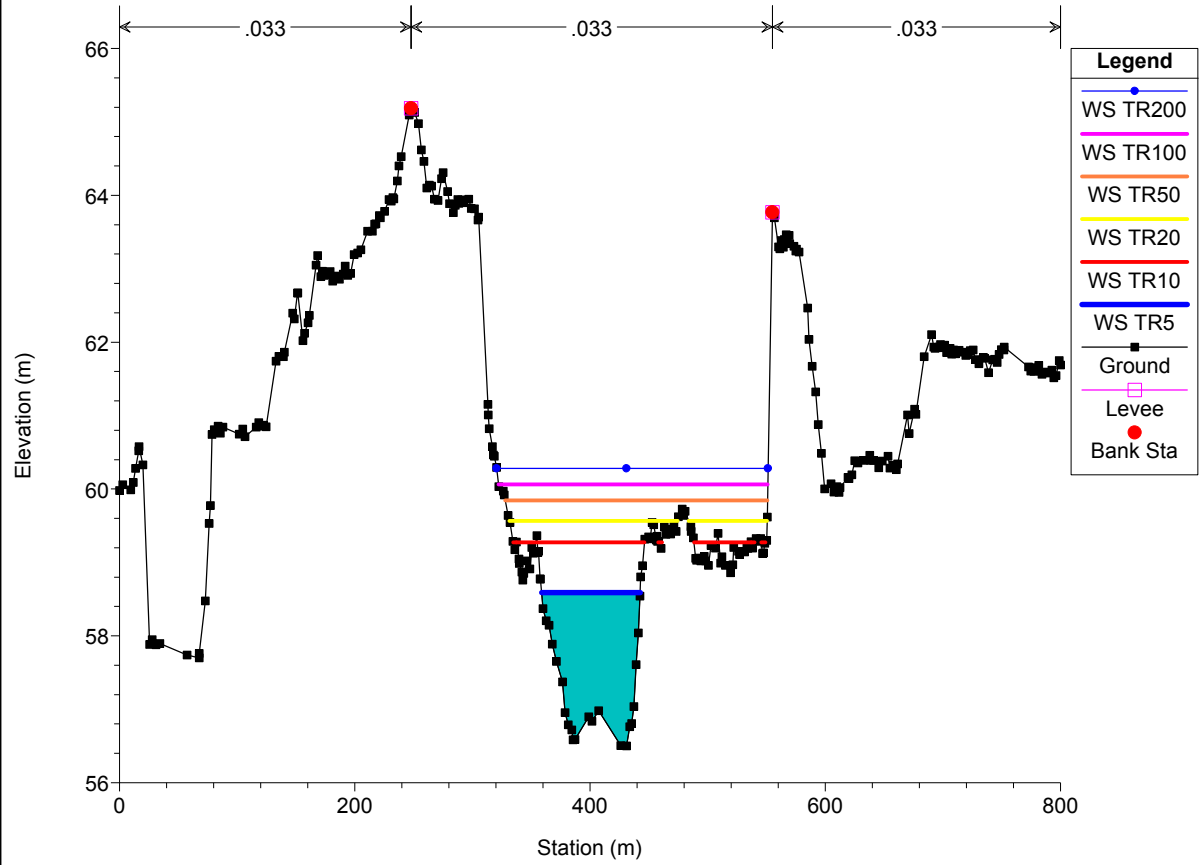






Cassa Baganza PD Plan: Steady\_SDF\_BAGANZA 2/22/2018

RS = 0



## APPENDICE 2

### PROFILI DI MOTO PERMANENTE – TORRENTE BAGANZA

#### STATO DI PROGETTO

Portate								
TR BAG	5	10	20	50	100	200	500	1000
Qmax (mc/s) BAG					430	460		



HEC-RAS Plan: SDP Locations: User Defined

River	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
BAGanza	Baganza	9200	TR100	445.00	127.44	129.09	129.05	129.51	0.014034	2.87	155.24	162.48	0.94
BAGanza	Baganza	9200	TR200	460.00	127.44	129.11	129.07	129.54	0.013949	2.90	158.71	162.62	0.94
BAGanza	Baganza	9100	TR100	445.00	126.29	128.18	127.95	128.48	0.007842	2.43	182.97	158.22	0.72
BAGanza	Baganza	9100	TR200	460.00	126.29	128.21	127.97	128.51	0.007841	2.46	187.35	159.69	0.72
BAGanza	Baganza	9000	TR100	445.00	125.55	127.34	127.11	127.69	0.008009	2.61	170.30	134.03	0.74
BAGanza	Baganza	9000	TR200	460.00	125.55	127.37	127.13	127.73	0.007937	2.64	174.28	134.16	0.74
BAGanza	Baganza	8900	TR100	445.00	124.42	126.59	126.24	126.92	0.007434	2.54	174.98	135.54	0.71
BAGanza	Baganza	8900	TR200	460.00	124.42	126.62	126.26	126.95	0.007483	2.56	179.41	137.96	0.72
BAGanza	Baganza	8800	TR100	445.00	123.64	125.37	125.37	125.87	0.015747	3.13	142.12	142.05	1.00
BAGanza	Baganza	8800	TR200	460.00	123.64	125.40	125.40	125.91	0.015762	3.16	145.56	143.58	1.00
BAGanza	Baganza	8700	TR100	445.00	122.46	124.53	124.15	124.74	0.005492	2.03	218.87	189.79	0.60
BAGanza	Baganza	8700	TR200	460.00	122.46	124.55	124.17	124.77	0.005509	2.06	223.30	190.30	0.61
BAGanza	Baganza	8600	TR100	445.00	121.60	123.43	123.43	123.85	0.016762	2.86	155.54	186.14	1.00
BAGanza	Baganza	8600	TR200	460.00	121.60	123.45	123.45	123.88	0.016713	2.89	158.93	186.49	1.00
BAGanza	Baganza	8500	TR100	445.00	120.43	122.30	122.15	122.58	0.009786	2.35	189.70	204.23	0.78
BAGanza	Baganza	8500	TR200	460.00	120.43	122.32	122.16	122.60	0.009742	2.37	193.81	204.32	0.78
BAGanza	Baganza	8400	TR100	445.00	119.19	121.12	121.06	121.43	0.013564	2.46	181.01	231.99	0.89
BAGanza	Baganza	8400	TR200	460.00	119.19	121.14	121.08	121.45	0.013718	2.50	184.14	232.35	0.90
BAGanza	Baganza	8300	TR100	445.00	118.19	120.03	119.87	120.26	0.010135	2.17	205.45	255.46	0.77
BAGanza	Baganza	8300	TR200	460.00	118.19	120.04	119.89	120.29	0.010084	2.19	210.27	256.59	0.77
BAGanza	Baganza	8200	TR100	445.00	117.43	119.14	118.92	119.37	0.007925	2.15	206.97	217.10	0.70
BAGanza	Baganza	8200	TR200	460.00	117.43	119.16	118.94	119.40	0.007893	2.17	212.07	218.89	0.70
BAGanza	Baganza	8100	TR100	445.00	116.55	118.34	118.08	118.61	0.007376	2.31	192.67	172.18	0.70
BAGanza	Baganza	8100	TR200	460.00	116.55	118.36	118.11	118.64	0.007299	2.33	197.43	172.78	0.70
BAGanza	Baganza	8000	TR100	445.00	115.58	117.35	117.19	117.75	0.010011	2.82	157.74	130.65	0.82
BAGanza	Baganza	8000	TR200	460.00	115.58	117.37	117.22	117.79	0.010083	2.86	160.60	130.72	0.82
BAGanza	Baganza	7900	TR100	445.00	114.67	116.46	116.27	116.78	0.009414	2.53	175.59	163.98	0.78
BAGanza	Baganza	7900	TR200	460.00	114.67	116.48	116.30	116.81	0.009427	2.56	179.70	165.50	0.78
BAGanza	Baganza	7800	TR100	445.00	113.45	115.16	115.15	115.59	0.015572	2.91	152.95	169.25	0.98
BAGanza	Baganza	7800	TR200	460.00	113.45	115.18	115.17	115.62	0.015616	2.94	156.33	170.43	0.98
BAGanza	Baganza	7700	TR100	445.00	112.72	114.35	114.09	114.60	0.006925	2.20	202.03	184.56	0.67
BAGanza	Baganza	7700	TR200	460.00	112.72	114.37	114.11	114.62	0.006921	2.23	206.21	184.74	0.67
BAGanza	Baganza	7600	TR100	445.00	111.61	113.89	113.26	113.87	0.007621	1.91	233.11	284.14	0.67
BAGanza	Baganza	7600	TR200	460.00	111.61	113.72	113.28	113.90	0.007594	1.89	242.83	298.64	0.67
BAGanza	Baganza	7500	TR100	445.00	110.72	112.89	112.47	113.02	0.009620	2.53	175.88	166.79	0.79
BAGanza	Baganza	7500	TR200	460.00	110.72	112.72	112.49	113.05	0.009635	2.56	180.01	168.37	0.79
BAGanza	Baganza	7470	TR100	445.00	110.52	112.36	112.22	112.72	0.010444	2.64	168.46	159.52	0.82
BAGanza	Baganza	7470	TR200	460.00	110.52	112.39	112.24	112.75	0.010352	2.67	172.59	160.19	0.82
BAGanza	Baganza	7400	TR100	445.00	109.45	111.63	111.48	112.00	0.010101	2.68	166.27	150.69	0.81
BAGanza	Baganza	7400	TR200	460.00	109.45	111.65	111.51	112.03	0.010191	2.72	169.42	151.27	0.82
BAGanza	Baganza	7300	TR100	445.00	108.77	111.01	110.63	111.23	0.006085	2.06	216.42	199.17	0.63
BAGanza	Baganza	7300	TR200	460.00	108.77	111.03	110.65	111.25	0.006087	2.08	221.16	200.11	0.63
BAGanza	Baganza	7200	TR100	445.00	108.08	109.99	109.90	110.38	0.012625	2.75	162.07	167.28	0.89
BAGanza	Baganza	7200	TR200	460.00	108.08	110.02	109.92	110.41	0.012508	2.75	166.99	170.32	0.89
BAGanza	Baganza	7100	TR100	445.00	107.04	109.09	108.82	109.40	0.007760	2.47	180.48	151.52	0.72
BAGanza	Baganza	7100	TR200	460.00	107.04	109.12	108.84	109.44	0.007810	2.50	184.08	152.19	0.73
BAGanza	Baganza	7000	TR100	445.00	106.42	107.91	107.89	108.35	0.015079	2.93	151.65	161.66	0.97
BAGanza	Baganza	7000	TR200	460.00	106.42	107.94	107.91	108.38	0.014900	2.96	155.32	161.83	0.97
BAGanza	Baganza	6900	TR100	445.00	105.25	107.11	106.84	107.32	0.007458	2.05	217.03	233.72	0.68
BAGanza	Baganza	6900	TR200	460.00	105.25	107.14	106.86	107.36	0.007509	2.05	224.85	244.23	0.68
BAGanza	Baganza	6800	TR100	445.00	104.12	105.97	105.91	106.36	0.013096	2.75	162.08	171.41	0.90
BAGanza	Baganza	6800	TR200	460.00	104.12	106.00	105.93	106.39	0.012966	2.76	166.89	174.17	0.90
BAGanza	Baganza	6700	TR100	445.00	103.20	105.19	104.90	105.43	0.006917	2.17	204.68	190.67	0.67
BAGanza	Baganza	6700	TR200	460.00	103.20	105.21	104.92	105.46	0.006989	2.20	209.17	193.02	0.67
BAGanza	Baganza	6600	TR100	445.00	102.27	104.35	104.12	104.63	0.009255	2.36	188.38	192.77	0.76
BAGanza	Baganza	6600	TR200	460.00	102.27	104.38	104.14	104.66	0.009090	2.37	194.00	194.75	0.76
BAGanza	Baganza	6500	TR100	445.00	101.34	103.37	103.18	103.71	0.009159	2.60	170.95	149.75	0.78
BAGanza	Baganza	6500	TR200	460.00	101.34	103.40	103.20	103.75	0.009221	2.61	176.38	154.85	0.78
BAGanza	Baganza	6400	TR100	445.00	100.72	102.59	102.33	102.89	0.007400	2.44	182.63	150.54	0.71
BAGanza	Baganza	6400	TR200	460.00	100.72	102.61	102.35	102.92	0.007462	2.47	185.89	150.64	0.71
BAGanza	Baganza	6300	TR100	445.00	99.89	101.68	101.55	102.01	0.010635	2.53	175.70	179.35	0.82
BAGanza	Baganza	6300	TR200	460.00	99.89	101.71	101.57	102.04	0.010557	2.55	180.09	180.50	0.82
BAGanza	Baganza	6200	TR100	445.00	99.19	101.11	100.70	101.32	0.004862	1.99	223.09	181.09	0.57

HEC-RAS Plan: SDP Locations: User Defined (Continued)

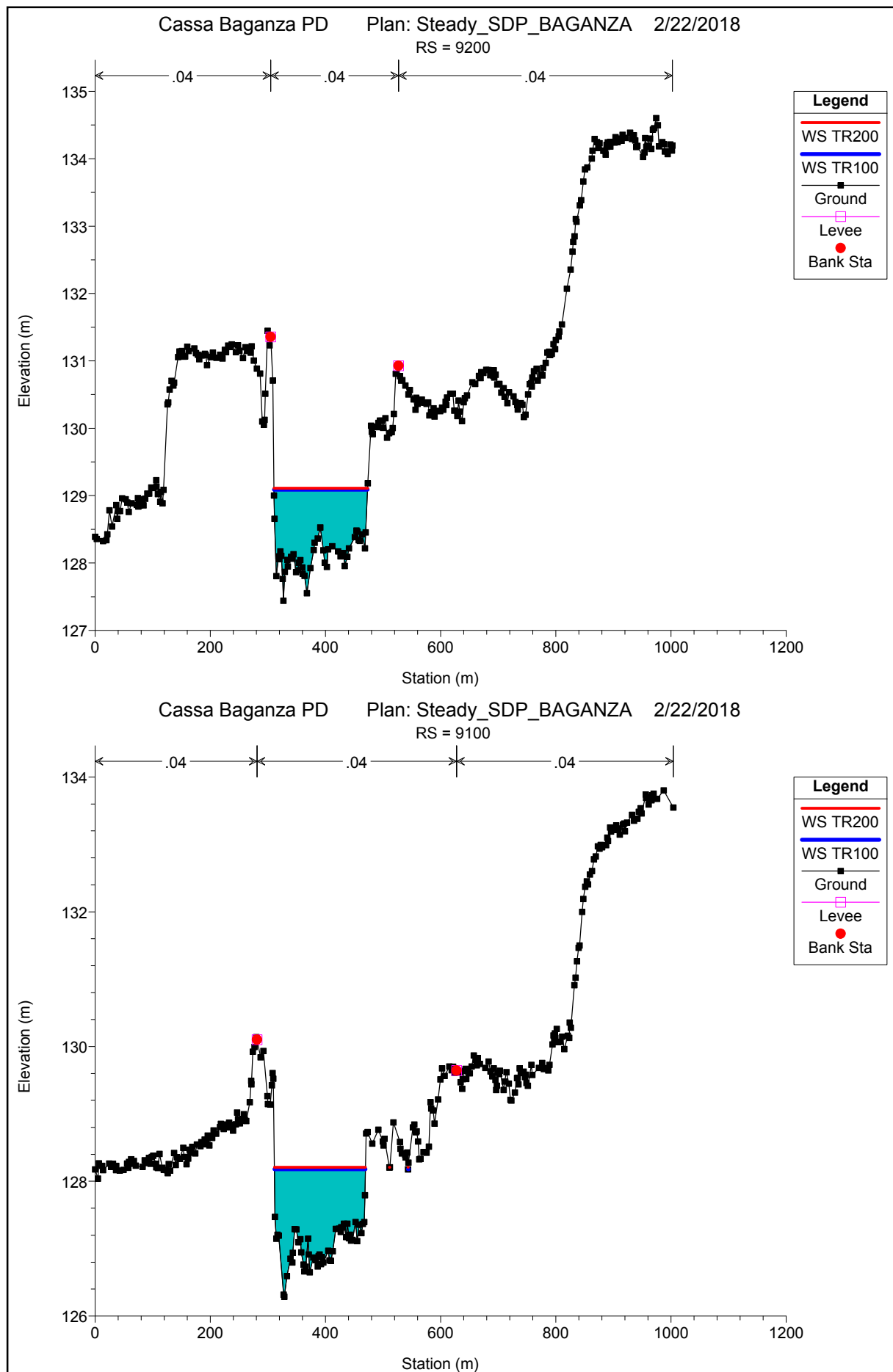
River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
BAGanza	Baganza	6200	TR200	460.00	99.19	101.14	100.72	101.35	0.004866	2.02	227.99	182.02	0.58
BAGanza	Baganza	6100	TR100	445.00	98.29	100.29	100.14	100.64	0.009962	2.62	170.04	157.37	0.80
BAGanza	Baganza	6100	TR200	460.00	98.29	100.32	100.16	100.68	0.009954	2.65	173.66	157.74	0.81
BAGanza	Baganza	6000	TR100	445.00	97.52	99.46	99.19	99.77	0.007775	2.47	180.01	150.91	0.72
BAGanza	Baganza	6000	TR200	460.00	97.52	99.49	99.21	99.80	0.007715	2.49	184.66	152.13	0.72
BAGanza	Baganza	5900	TR100	445.00	96.59	98.60	98.35	98.98	0.008068	2.71	164.20	122.77	0.75
BAGanza	Baganza	5900	TR200	460.00	96.59	98.63	98.37	99.01	0.008117	2.75	167.31	122.97	0.75
BAGanza	Baganza	5800	TR100	445.00	95.85	97.42	97.42	97.86	0.016434	2.95	150.74	169.43	1.00
BAGanza	Baganza	5800	TR200	460.00	95.85	97.43	97.43	97.89	0.016492	2.99	153.62	169.47	1.00
BAGanza	Baganza	5700	TR100	445.00	94.98	96.62	96.34	96.86	0.006368	2.13	208.74	188.39	0.65
BAGanza	Baganza	5700	TR200	460.00	94.98	96.65	96.36	96.89	0.006222	2.14	214.48	188.51	0.64
BAGanza	Baganza	5600	TR100	445.00	93.67	96.10	95.58	96.34	0.004253	2.16	205.55	133.28	0.56
BAGanza	Baganza	5600	TR200	460.00	93.67	96.14	95.61	96.38	0.004234	2.19	210.18	133.61	0.56
BAGanza	Baganza	5500	TR100	445.00	93.36	94.98	94.98	95.62	0.014567	3.55	125.51	98.01	1.00
BAGanza	Baganza	5500	TR200	460.00	93.36	95.01	95.01	95.67	0.014520	3.59	128.24	98.18	1.00
BAGanza	Baganza	5400	TR100	445.00	92.16	94.10	93.83	94.43	0.007252	2.51	177.02	136.75	0.71
BAGanza	Baganza	5400	TR200	460.00	92.16	94.13	93.85	94.46	0.007232	2.54	180.80	136.85	0.71
BAGanza	Baganza	5300	TR100	445.00	91.31	93.12	93.01	93.53	0.011262	2.85	156.15	139.60	0.86
BAGanza	Baganza	5300	TR200	460.00	91.31	93.14	93.03	93.57	0.011377	2.90	158.85	139.70	0.87
BAGanza	Baganza	5200	TR100	445.00	90.20	92.19	92.03	92.49	0.009670	2.45	181.76	182.10	0.78
BAGanza	Baganza	5200	TR200	460.00	90.20	92.21	92.04	92.52	0.009638	2.47	185.97	183.02	0.78
BAGanza	Baganza	5100	TR100	445.00	89.54	91.45	91.16	91.71	0.006478	2.23	199.71	170.62	0.66
BAGanza	Baganza	5100	TR200	460.00	89.54	91.48	91.18	91.74	0.006479	2.26	203.78	170.76	0.66
BAGanza	Baganza	5000	TR100	445.00	88.57	90.50	90.38	90.87	0.011129	2.71	164.11	156.78	0.85
BAGanza	Baganza	5000	TR200	460.00	88.57	90.52	90.41	90.91	0.011090	2.74	167.71	157.07	0.85
BAGanza	Baganza	4900	TR100	445.00	87.44	89.74	89.43	90.03	0.006556	2.41	184.50	141.04	0.67
BAGanza	Baganza	4900	TR200	460.00	87.44	89.77	89.45	90.07	0.006513	2.44	188.67	141.20	0.67
BAGanza	Baganza	4800	TR100	445.00	86.83	89.09	88.73	89.38	0.006635	2.38	186.86	147.12	0.67
BAGanza	Baganza	4800	TR200	460.00	86.83	89.11	88.75	89.41	0.006705	2.41	191.06	149.16	0.68
BAGanza	Baganza	4700	TR100	445.00	86.29	87.89	87.89	88.40	0.015846	3.15	141.42	141.00	1.00
BAGanza	Baganza	4700	TR200	460.00	86.29	87.92	87.92	88.43	0.015641	3.17	144.93	141.26	1.00
BAGanza	Baganza	4600	TR100	445.00	84.86	87.22	86.81	87.44	0.004944	2.09	213.26	163.40	0.58
BAGanza	Baganza	4600	TR200	460.00	84.86	87.25	86.83	87.48	0.004924	2.11	218.05	163.83	0.58
BAGanza	Baganza	4500	TR100	445.00	84.09	86.47	86.23	86.82	0.008087	2.62	169.71	133.27	0.74
BAGanza	Baganza	4500	TR200	460.00	84.09	86.50	86.26	86.86	0.007964	2.64	174.16	133.70	0.74
BAGanza	Baganza	4400	TR100	445.00	83.34	85.56	85.32	86.00	0.008273	2.96	150.45	100.63	0.77
BAGanza	Baganza	4400	TR200	460.00	83.34	85.58	85.34	86.04	0.008362	3.01	153.07	100.78	0.78
BAGanza	Baganza	4300	TR100	445.00	82.70	85.06	84.66	85.34	0.005383	2.35	189.44	129.92	0.62
BAGanza	Baganza	4300	TR200	460.00	82.70	85.09	84.68	85.38	0.005371	2.38	193.51	130.14	0.62
BAGanza	Baganza	4200	TR100	445.00	81.99	84.58	84.11	84.84	0.004666	2.25	197.45	129.44	0.58
BAGanza	Baganza	4200	TR200	460.00	81.99	84.62	84.13	84.88	0.004628	2.28	202.04	129.63	0.58
BAGanza	Baganza	4100	TR100	445.00	81.33	83.82	83.53	84.25	0.007707	2.93	151.78	97.49	0.75
BAGanza	Baganza	4100	TR200	460.00	81.33	83.85	83.56	84.30	0.007662	2.96	155.24	97.71	0.75
BAGanza	Baganza	4000	TR100	445.00	80.46	82.82	82.67	83.37	0.010233	3.29	135.19	90.03	0.86
BAGanza	Baganza	4000	TR200	460.00	80.46	82.84	82.70	83.41	0.010356	3.35	137.48	90.12	0.86
BAGanza	Baganza	3900	TR100	445.00	79.74	82.38	81.93	82.67	0.005008	2.39	186.15	116.95	0.60
BAGanza	Baganza	3900	TR200	460.00	79.74	82.42	81.95	82.71	0.005018	2.42	189.83	117.03	0.61
BAGanza	Baganza	3800	TR100	445.00	79.08	81.28	81.28	81.87	0.014991	3.41	130.67	110.43	1.00
BAGanza	Baganza	3800	TR200	460.00	79.08	81.31	81.31	81.91	0.014928	3.45	133.52	110.53	1.00
BAGanza	Baganza	3700	TR100	445.00	78.34	80.53	80.14	80.85	0.005823	2.51	177.42	116.98	0.65
BAGanza	Baganza	3700	TR200	460.00	78.34	80.56	80.17	80.89	0.005778	2.53	181.50	117.13	0.65
BAGanza	Baganza	3600	TR100	445.00	77.35	80.08	79.51	80.36	0.004227	2.34	190.58	109.52	0.57
BAGanza	Baganza	3600	TR200	460.00	77.35	80.12	79.54	80.40	0.004214	2.36	194.69	109.65	0.57
BAGanza	Baganza	3500	TR100	445.00	76.74	79.38	79.06	79.81	0.007253	2.93	151.85	92.89	0.73
BAGanza	Baganza	3500	TR200	460.00	76.74	79.41	79.09	79.86	0.007223	2.96	155.19	93.03	0.73
BAGanza	Baganza	3400	TR100	445.00	75.96	78.78	78.28	79.17	0.005679	2.78	159.91	88.61	0.66
BAGanza	Baganza	3400	TR200	460.00	75.96	78.82	78.32	79.22	0.005636	2.81	163.60	88.73	0.66
BAGanza	Baganza	3300	TR100	445.00	75.21	78.05	77.68	78.55	0.006786	3.13	142.01	74.57	0.72
BAGanza	Baganza	3300	TR200	460.00	75.21	78.10	77.71	78.61	0.006729	3.16	145.37	74.71	0.72
BAGanza	Baganza	3200	TR100	445.00	74.84	77.47	76.95	77.94	0.005515	3.05	146.11	68.42	0.67
BAGanza	Baganza	3200	TR200	460.00	74.84	77.52	76.98	78.00	0.005503	3.08	149.35	68.63	0.67
BAGanza	Baganza	3100	TR100	445.00	73.79	77.14	76.33	77.49	0.003821	2.63	169.27	74.96	0.56
BAGanza	Baganza	3100	TR200	460.00	73.79	77.19	76.37	77.55	0.003807	2.66	173.17	75.28	0.56

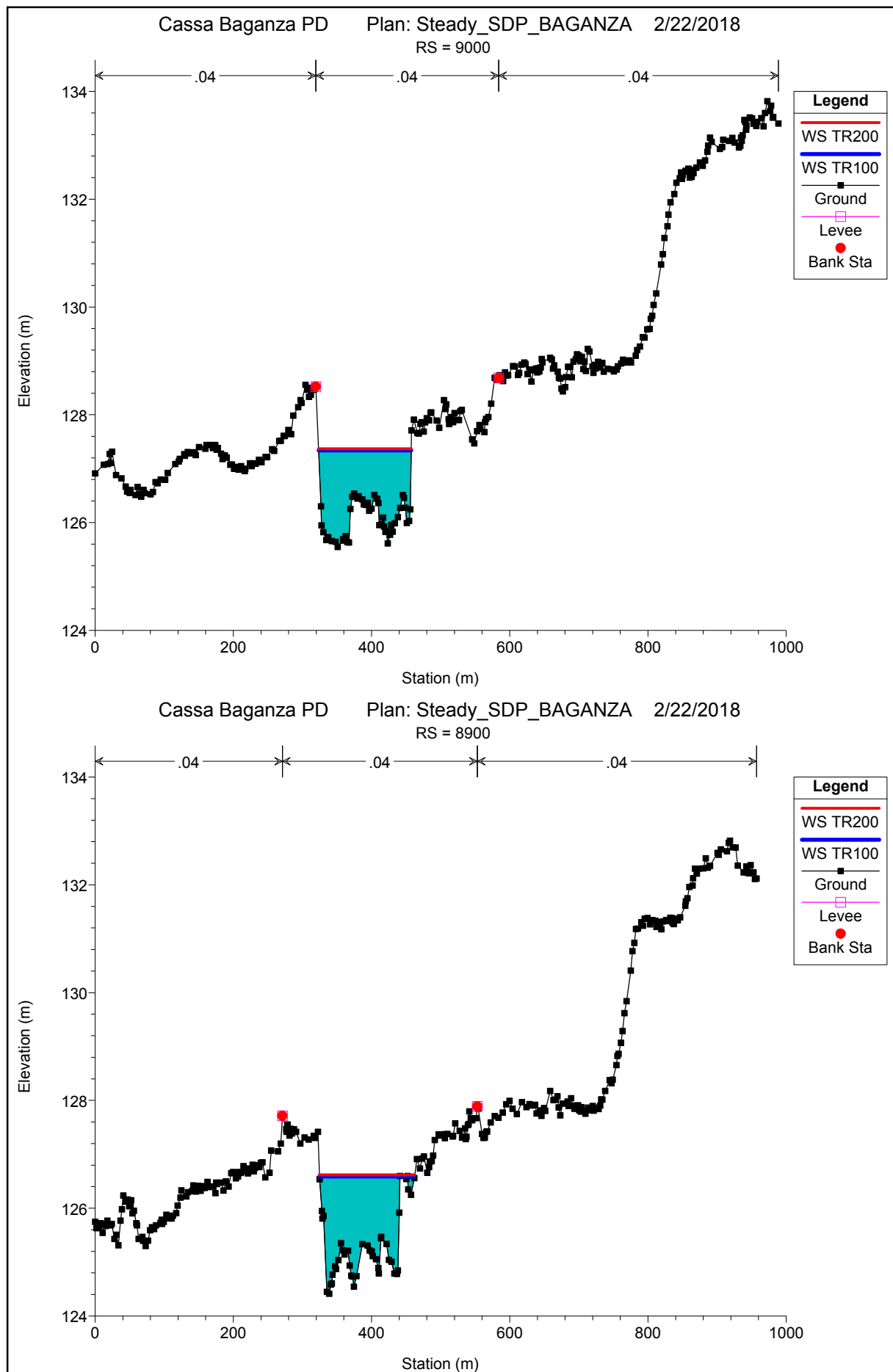
HEC-RAS Plan: SDP Locations: User Defined (Continued)

River	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
BAganza	Baganza	3000	TR100	445.00	73.39	76.29	76.04	76.90	0.010253	3.46	128.72	79.76	0.87
BAganza	Baganza	3000	TR200	460.00	73.39	76.38	76.08	76.96	0.010229	3.38	136.20	87.30	0.86
BAganza	Baganza	2900	TR100	445.00	72.81	75.12	75.06	75.79	0.012113	3.60	123.46	81.31	0.93
BAganza	Baganza	2900	TR200	460.00	72.81	75.14	75.09	75.83	0.012493	3.69	124.81	81.36	0.95
BAganza	Baganza	2800	TR100	445.00	72.41	74.66	74.19	74.98	0.005777	2.50	178.07	117.06	0.65
BAganza	Baganza	2800	TR200	460.00	72.41	74.70	74.22	75.02	0.005669	2.51	182.99	117.55	0.64
BAganza	Baganza	2700	TR100	445.00	71.19	73.88	73.49	74.35	0.006725	3.05	145.77	79.39	0.72
BAganza	Baganza	2700	TR200	460.00	71.19	73.97	73.53	74.43	0.006206	3.01	152.83	80.04	0.70
BAganza	Baganza	2597.84	TR100	445.00	70.83	73.88	72.64	74.05	0.001678	1.82	244.04	101.63	0.38
BAganza	Baganza	2597.84	TR200	460.00	70.83	73.98	72.68	74.14	0.001585	1.81	253.91	102.28	0.37
BAganza	Baganza	2569.29	TR100	445.00	70.37	73.86	72.38	74.01	0.001329	1.72	258.30	98.34	0.34
BAganza	Baganza	2569.29	TR200	460.00	70.37	73.95	72.41	74.10	0.001267	1.72	267.94	98.95	0.33
BAganza	Baganza	2500	TR100	445.00	69.70	73.63	72.13	73.89	0.002370	2.24	198.40	76.55	0.44
BAganza	Baganza	2500	TR200	460.00	69.70	73.73	72.17	73.98	0.002565	2.23	206.62	85.84	0.46
BAganza	Baganza	2430.01	TR100	445.00	69.01	73.41	71.80	73.70	0.002916	2.38	187.03	77.33	0.49
BAganza	Baganza	2430.01	TR200	460.00	69.01	73.51	71.86	73.79	0.002934	2.37	194.29	81.38	0.49
BAganza	Baganza	2300	TR100	445.00	68.18	72.14	71.72	73.11	0.007989	4.38	101.65	34.90	0.82
BAganza	Baganza	2300	TR200	460.00	68.18	72.20	71.79	73.20	0.008039	4.43	103.77	35.11	0.82
BAganza	Baganza	2200	TR100	445.00	67.17	70.87	70.87	72.13	0.012451	4.97	89.46	35.44	1.00
BAganza	Baganza	2200	TR200	460.00	67.17	70.93	70.93	72.21	0.012384	5.01	91.74	35.76	1.00
BAganza	Baganza	2100	TR100	445.00	66.90	70.63	69.34	70.86	0.002288	2.12	210.28	87.24	0.44
BAganza	Baganza	2100	TR200	460.00	66.90	70.71	69.37	70.94	0.002267	2.12	216.88	89.06	0.43
BAganza	Baganza	2000	TR100	445.00	66.29	69.43	69.24	70.44	0.009769	4.47	99.53	39.52	0.90
BAganza	Baganza	2000	TR200	460.00	66.29	69.46	69.30	70.52	0.010019	4.56	100.89	39.63	0.91
BAganza	Baganza	1900	TR100	445.00	65.61	69.31	68.52	69.79	0.004690	3.08	144.65	58.69	0.63
BAganza	Baganza	1900	TR200	460.00	65.61	69.37	68.57	69.86	0.004633	3.10	148.60	59.18	0.62
BAganza	Baganza	1800	TR100	445.00	65.32	68.76	67.99	69.31	0.004830	3.30	134.82	49.98	0.64
BAganza	Baganza	1800	TR200	460.00	65.32	68.83	68.04	69.39	0.004775	3.32	138.35	50.28	0.64
BAganza	Baganza	1700	TR100	445.00	64.30	68.26	67.48	68.82	0.004977	3.32	134.21	50.03	0.65
BAganza	Baganza	1700	TR200	460.00	64.30	68.35	67.53	68.91	0.004856	3.32	138.52	50.56	0.64
BAganza	Baganza	1600	TR100	445.00	63.93	67.71	66.88	68.29	0.005742	3.36	132.29	54.03	0.69
BAganza	Baganza	1600	TR200	460.00	63.93	67.79	66.94	68.37	0.006134	3.37	136.56	58.62	0.70
BAganza	Baganza	1500	TR100	445.00	63.60	67.24	66.26	67.67	0.006571	2.93	152.00	85.87	0.70
BAganza	Baganza	1500	TR200	460.00	63.60	67.31	66.31	67.74	0.006362	2.90	158.69	88.83	0.69
BAganza	Baganza	1400	TR100	445.00	62.85	66.06	65.69	66.95	0.008065	4.18	106.53	39.60	0.81
BAganza	Baganza	1400	TR200	460.00	62.85	66.11	65.75	67.02	0.008165	4.24	108.42	39.72	0.82
BAganza	Baganza	1300	TR100	445.00	62.52	65.58	65.03	66.25	0.006129	3.62	123.04	46.94	0.71
BAganza	Baganza	1300	TR200	460.00	62.52	65.62	65.08	66.31	0.006226	3.68	125.05	47.04	0.72
BAganza	Baganza	1200	TR100	445.00	62.05	65.06	64.57	65.63	0.006316	3.35	132.94	59.53	0.71
BAganza	Baganza	1200	TR200	460.00	62.05	65.09	64.62	65.68	0.006454	3.41	134.85	59.64	0.72
BAganza	Baganza	1100	TR100	445.00	61.40	64.51	64.17	64.96	0.007006	2.96	150.20	87.65	0.72
BAganza	Baganza	1100	TR200	460.00	61.40	64.55	64.20	65.01	0.006965	2.99	153.59	87.78	0.72
BAganza	Baganza	1000	TR100	445.00	61.14	63.58	63.35	64.16	0.009182	3.37	132.00	77.96	0.83
BAganza	Baganza	1000	TR200	460.00	61.14	63.64	63.40	64.22	0.009016	3.36	136.77	79.96	0.82
BAganza	Baganza	900	TR100	445.00	60.26	63.26	62.43	63.62	0.003594	2.65	167.85	69.96	0.55
BAganza	Baganza	900	TR200	460.00	60.26	63.32	62.47	63.68	0.003566	2.68	171.96	70.13	0.55
BAganza	Baganza	800	TR100	445.00	59.57	62.80	61.98	63.24	0.003988	2.93	152.00	58.51	0.58
BAganza	Baganza	800	TR200	460.00	59.57	62.86	62.02	63.31	0.003974	2.96	155.40	58.63	0.58
BAganza	Baganza	700	TR100	445.00	59.23	62.02	61.60	62.72	0.007070	3.71	120.01	49.63	0.76
BAganza	Baganza	700	TR200	460.00	59.23	62.07	61.65	62.79	0.007054	3.75	122.67	49.76	0.76
BAganza	Baganza	555.65	TR100	445.00	58.52	61.90	60.61	62.19	0.002254	2.38	187.15	62.84	0.44
BAganza	Baganza	555.65	TR200	460.00	58.52	61.96	60.65	62.26	0.002255	2.41	191.07	62.94	0.44
BAganza	Baganza	544.11	TR100	445.00	58.37	61.90	60.51	62.16	0.001991	2.27	195.85	64.30	0.42
BAganza	Baganza	544.11	TR200	460.00	58.37	61.96	60.55	62.23	0.001994	2.30	199.90	64.40	0.42
BAganza	Baganza	544		Bridge									
BAganza	Baganza	527.96	TR100	445.00	58.25	61.81	60.55	62.11	0.001657	2.45	181.43	61.13	0.45
BAganza	Baganza	527.96	TR200	460.00	58.25	61.87	60.60	62.18	0.001659	2.48	185.18	61.22	0.46
BAganza	Baganza	516.43	TR100	445.00	58.17	61.80	60.45	62.09	0.001488	2.40	185.18	59.94	0.44
BAganza	Baganza	516.43	TR200	460.00	58.17	61.86	60.49	62.16	0.001494	2.44	188.85	60.02	0.44
BAganza	Baganza	400	TR100	445.00	57.59	61.06	60.54	61.81	0.004551	3.85	115.64	43.37	0.75
BAganza	Baganza	400	TR200	460.00	57.59	61.09	60.60	61.88	0.004685	3.93	117.11	43.51	0.76
BAganza	Baganza	300	TR100	445.00	57.18	60.83	60.04	61.42	0.003458	3.41	130.44	47.67	0.66

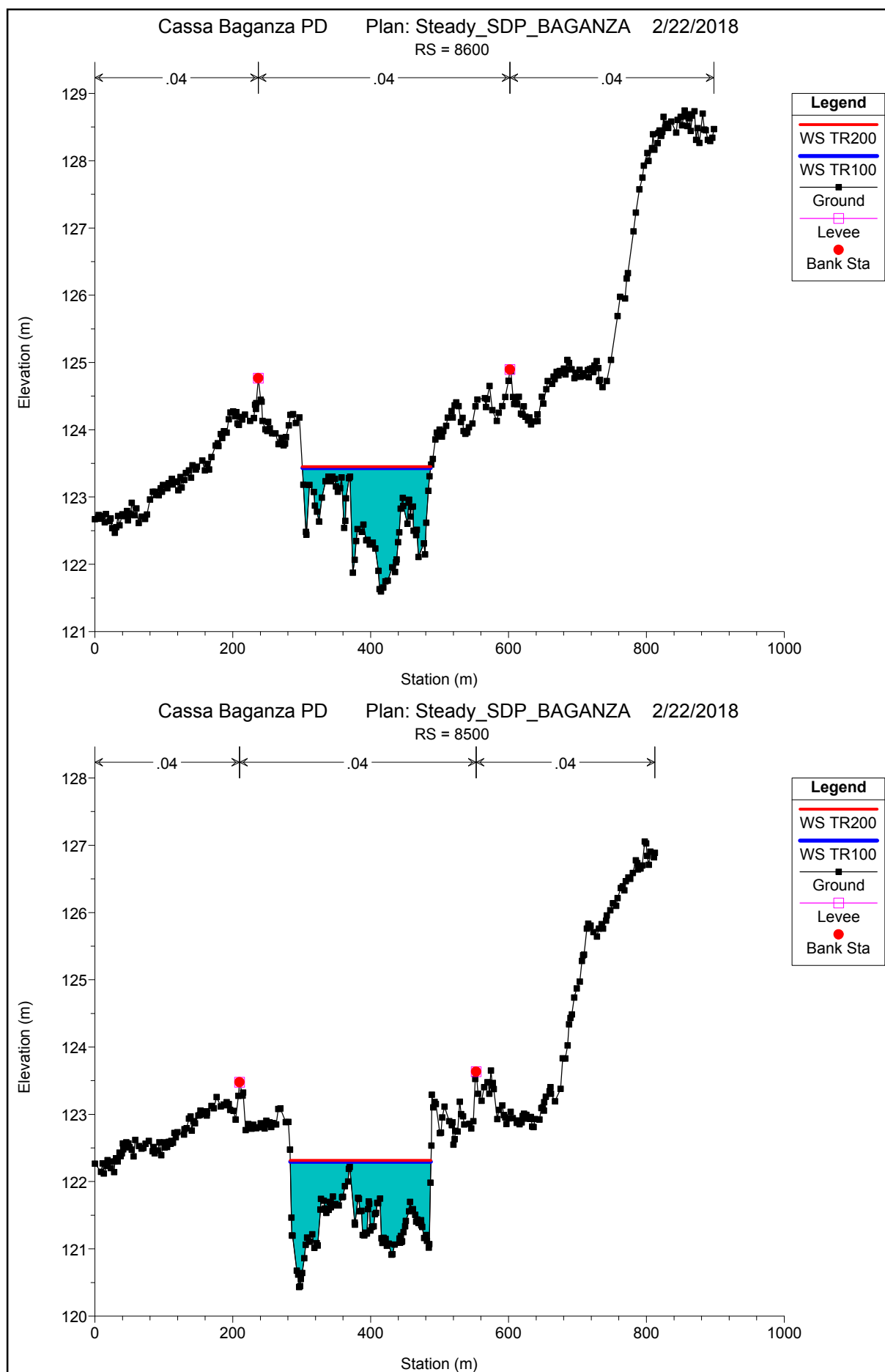
HEC-RAS Plan: SDP Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
BAGanza	Baganza	300	TR200	460.00	57.18	60.84	60.10	61.47	0.003650	3.51	131.04	47.78	0.68
BAGanza	Baganza	200	TR100	445.00	56.86	60.87	60.52	61.12	0.002539	2.44	216.69	156.73	0.54
BAGanza	Baganza	200	TR200	460.00	56.86	60.92	60.54	61.17	0.002459	2.43	224.07	156.83	0.54
BAGanza	Baganza	100	TR100	445.00	56.62	59.87	59.87	60.69	0.009251	4.01	111.06	67.86	1.00
BAGanza	Baganza	100	TR200	460.00	56.62	59.91	59.91	60.74	0.009221	4.05	113.70	68.27	1.00
BAGanza	Baganza	0	TR100	445.00	56.50	59.67	58.49	59.80	0.002002	1.60	278.72	217.05	0.45
BAGanza	Baganza	0	TR200	460.00	56.50	59.70	58.52	59.84	0.002001	1.61	285.98	220.14	0.45



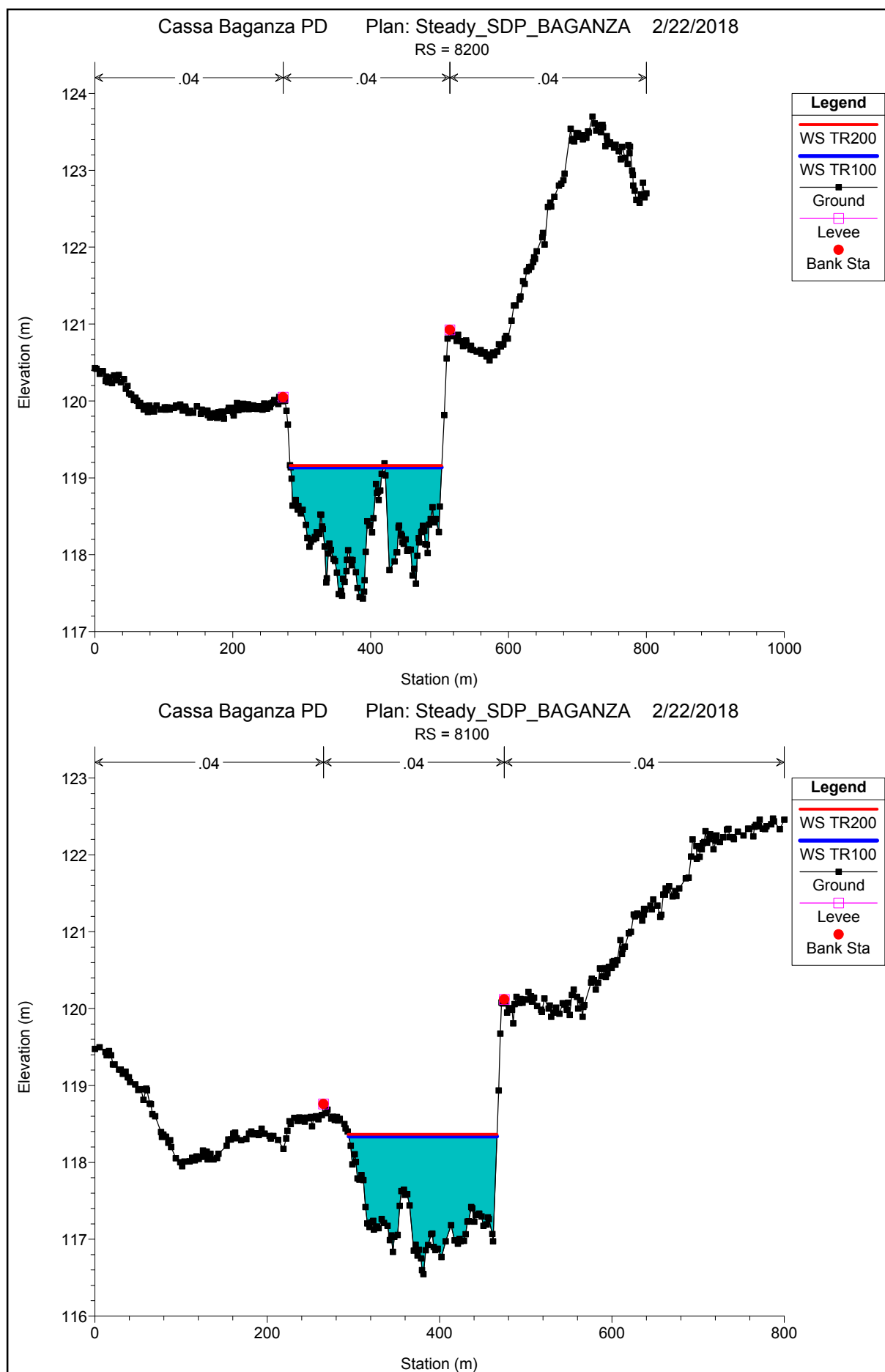


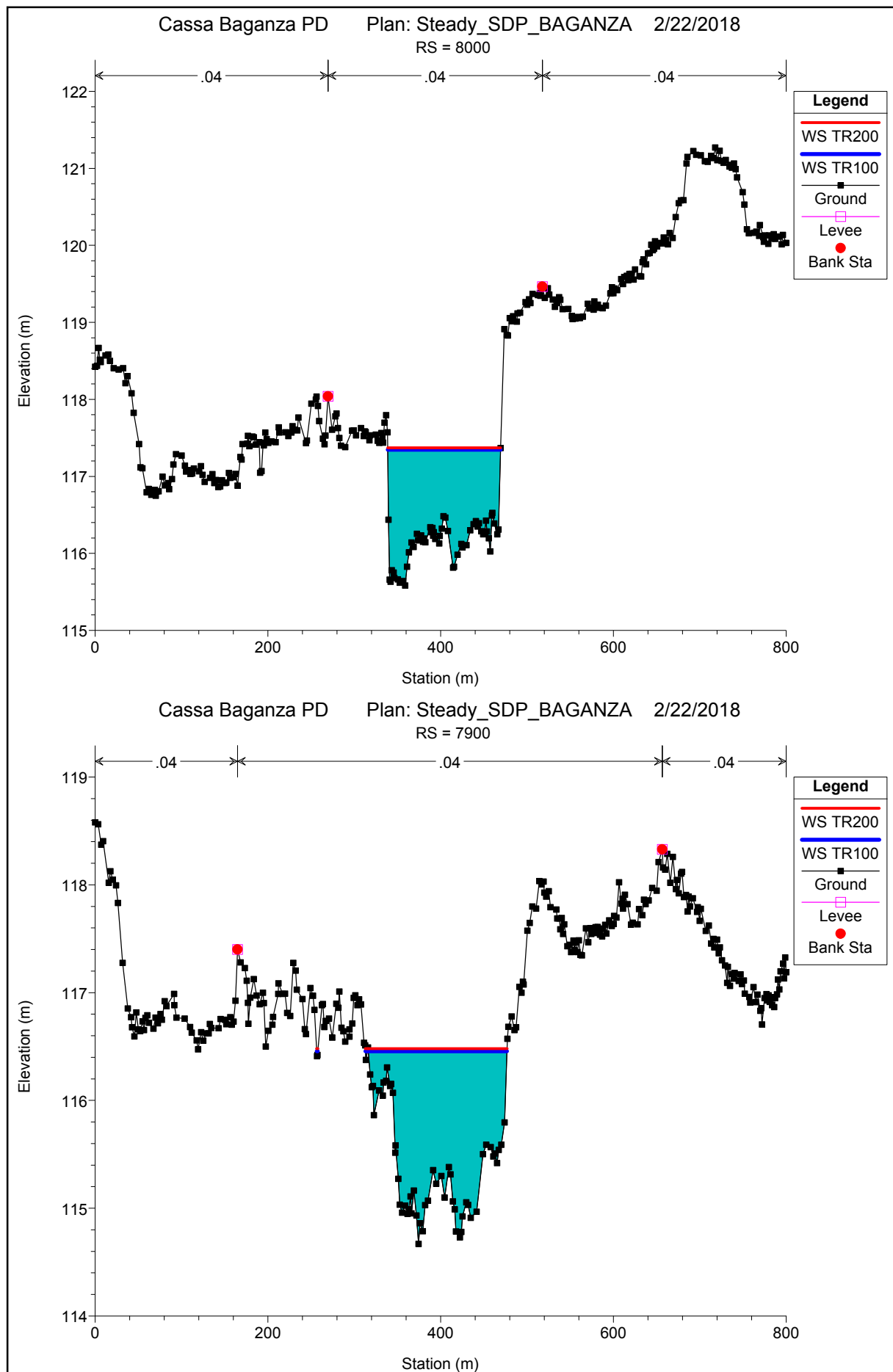


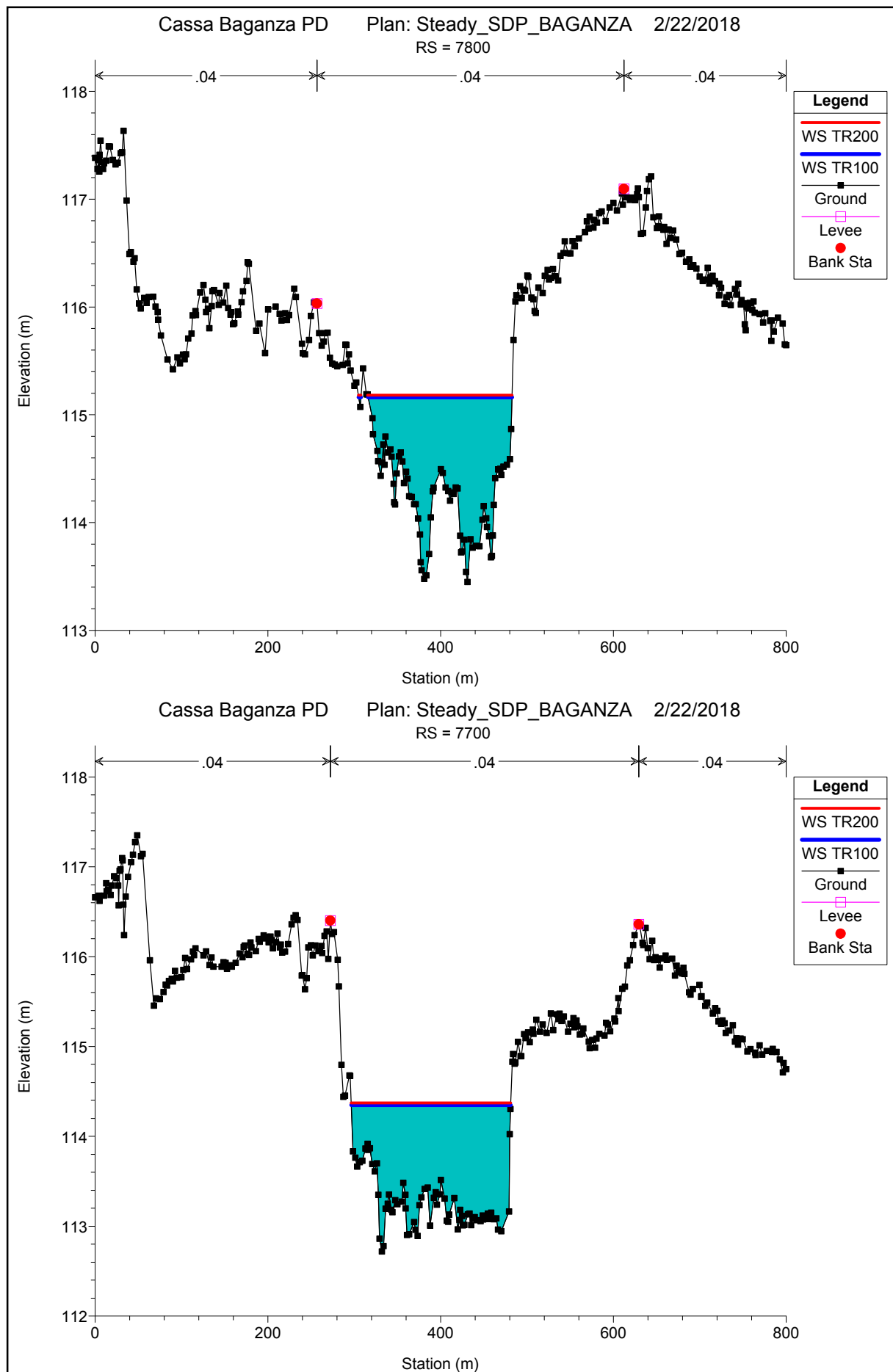


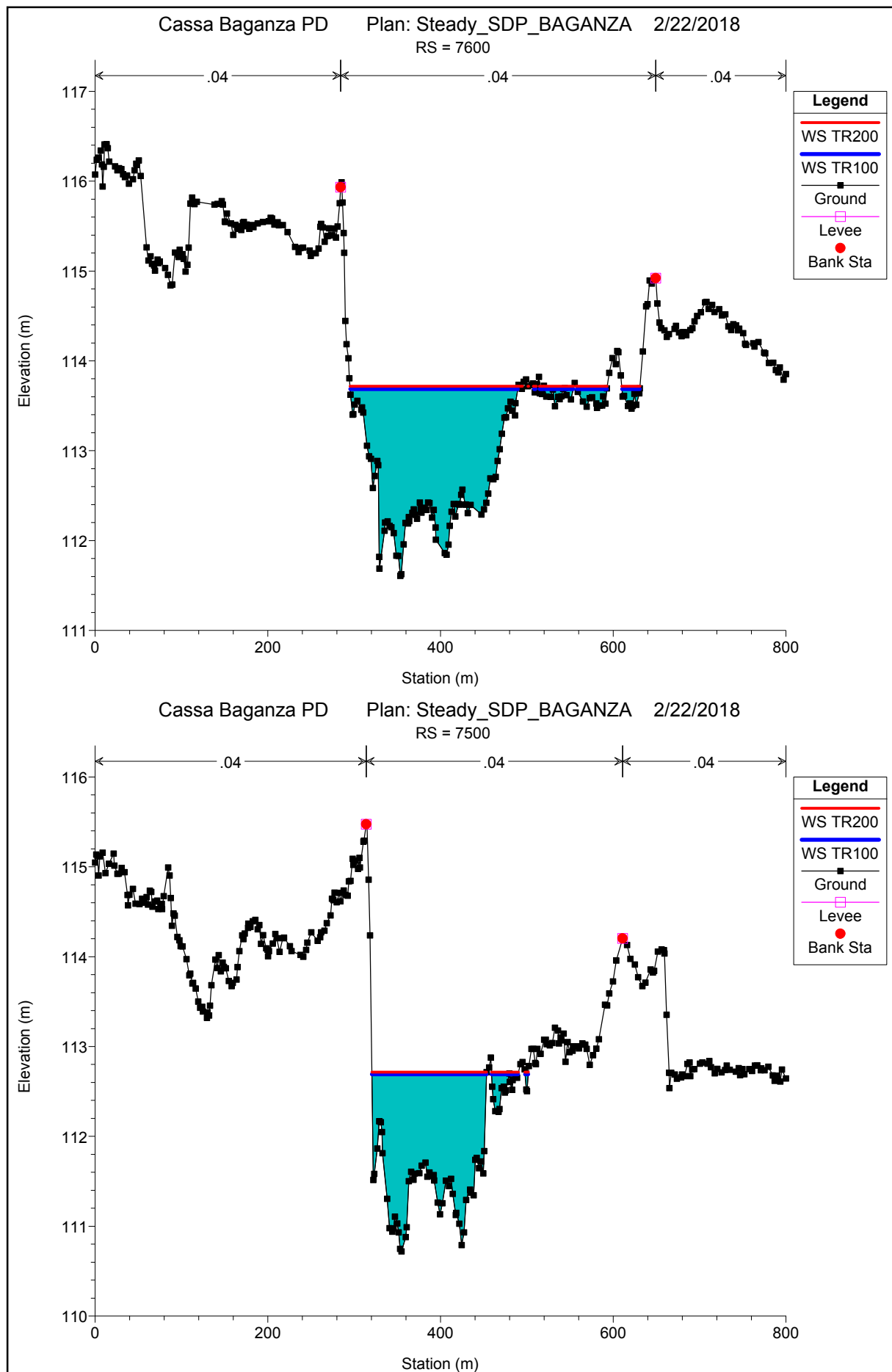


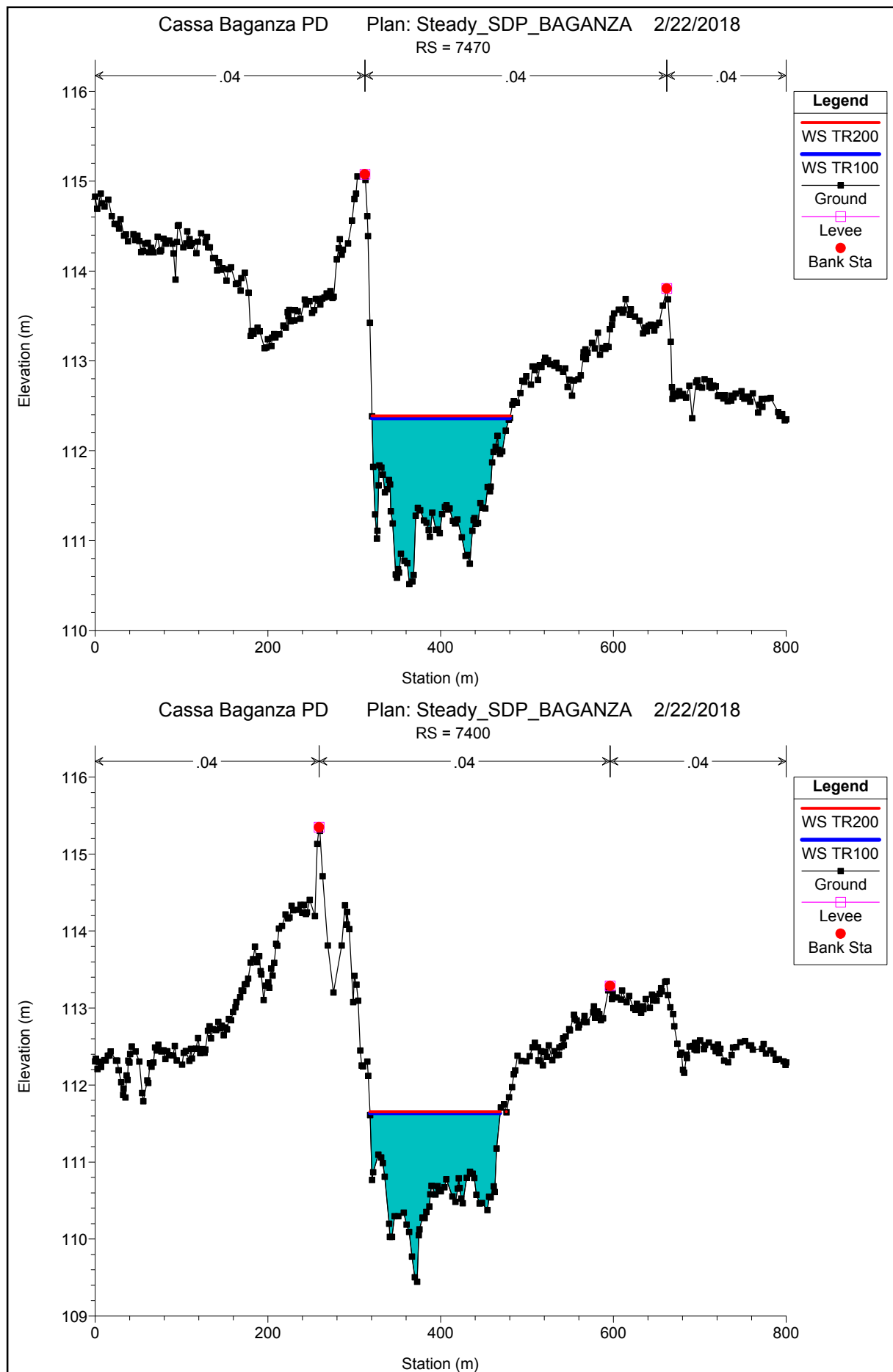


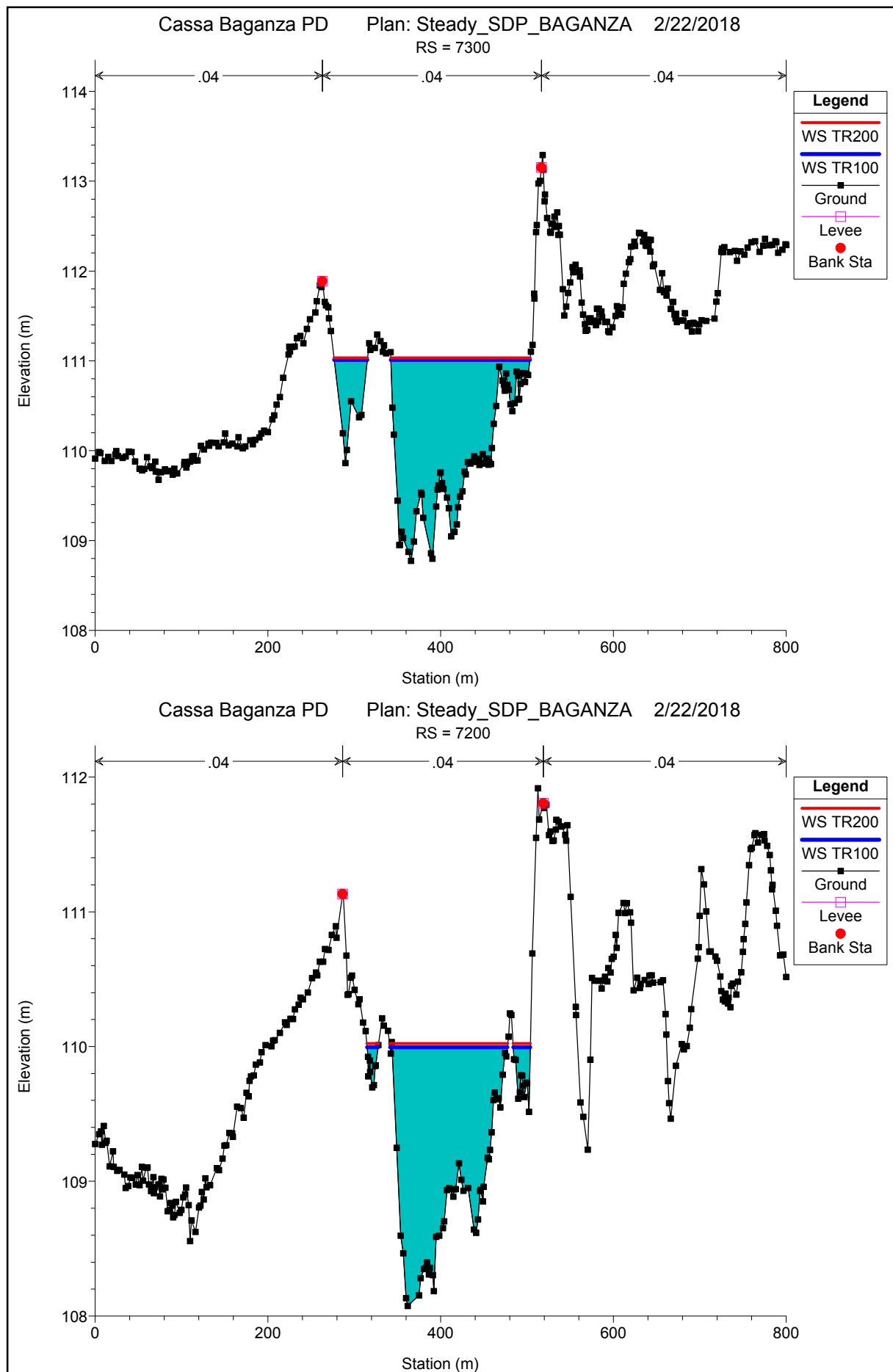


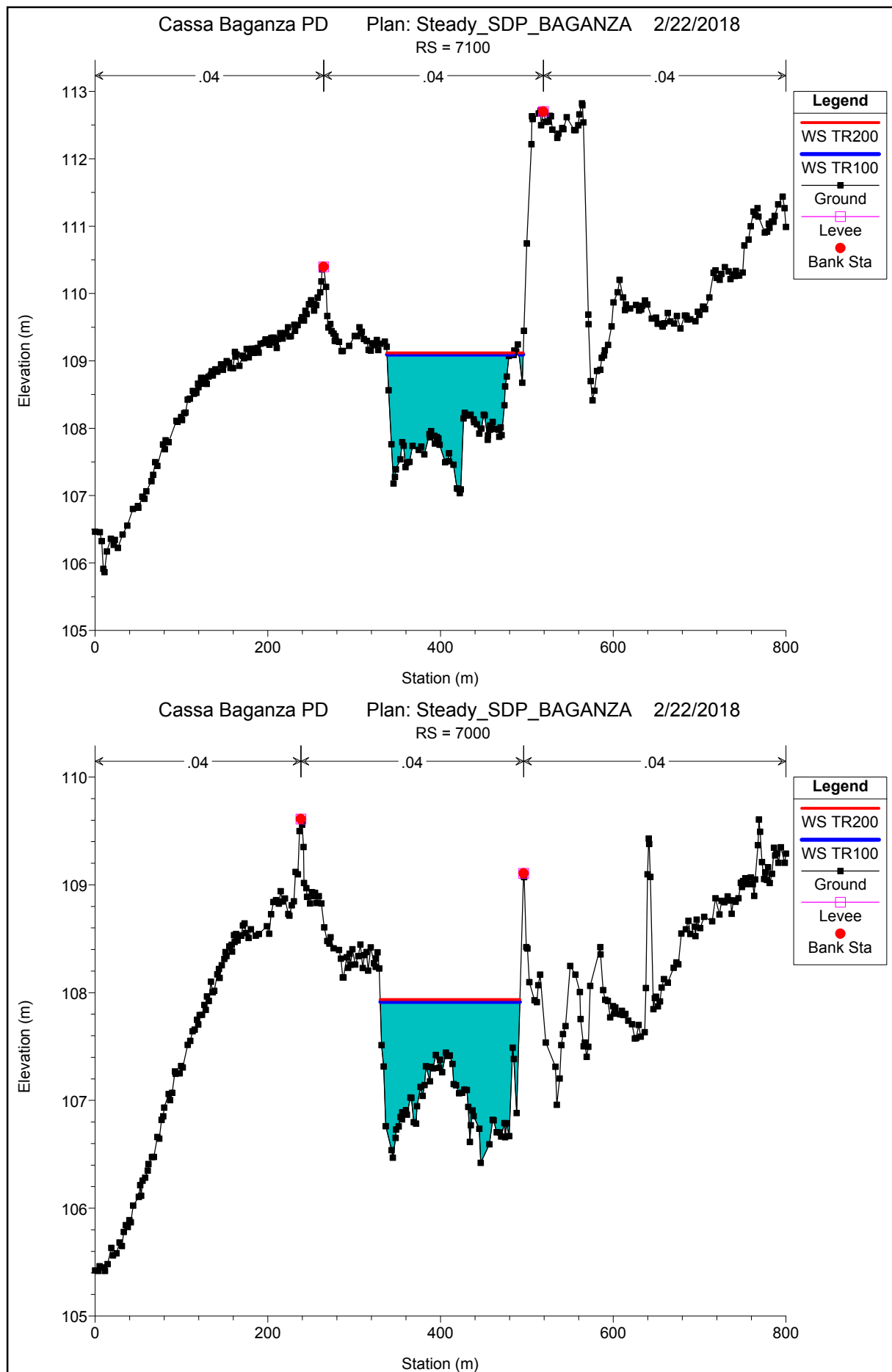




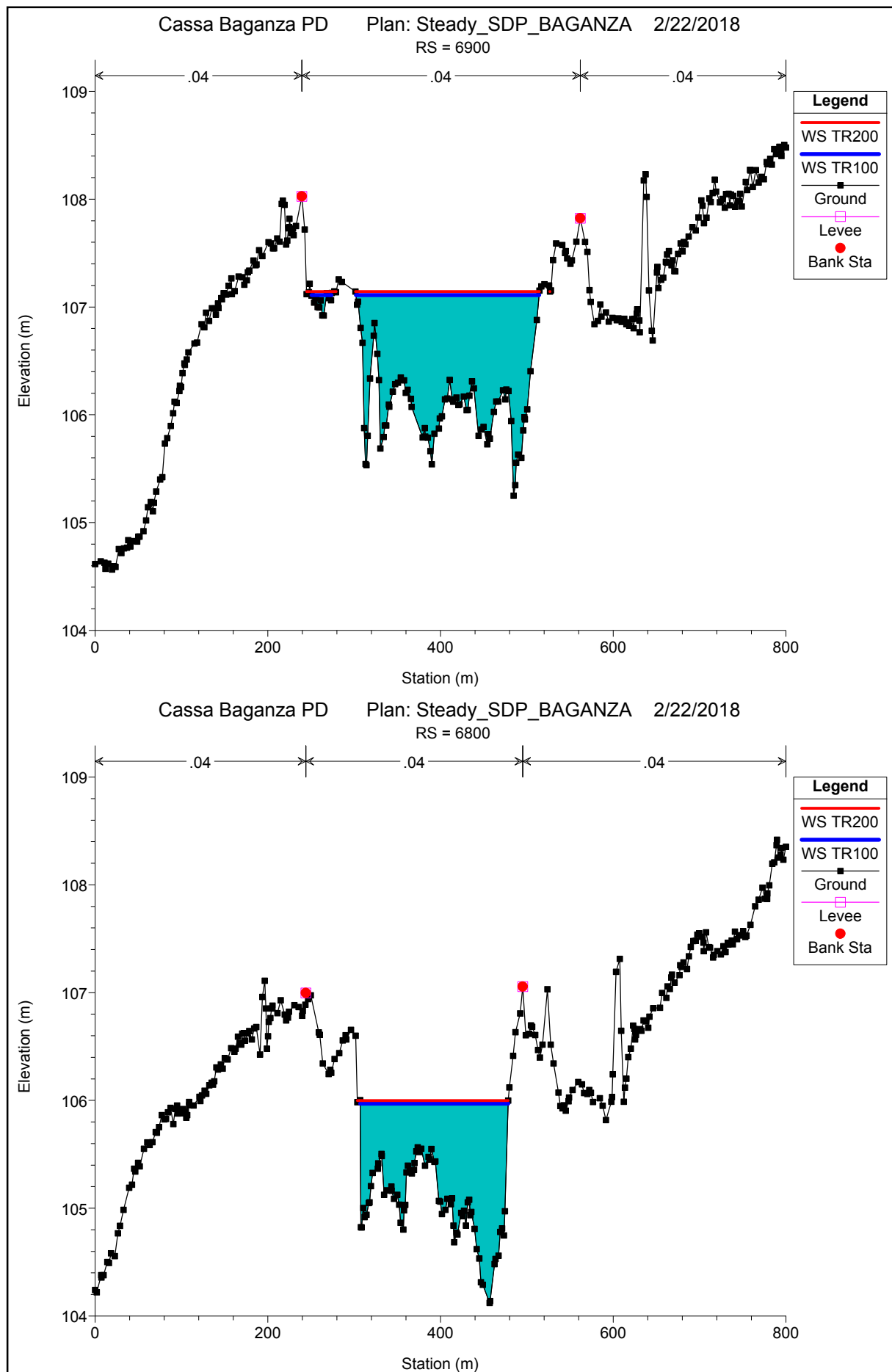


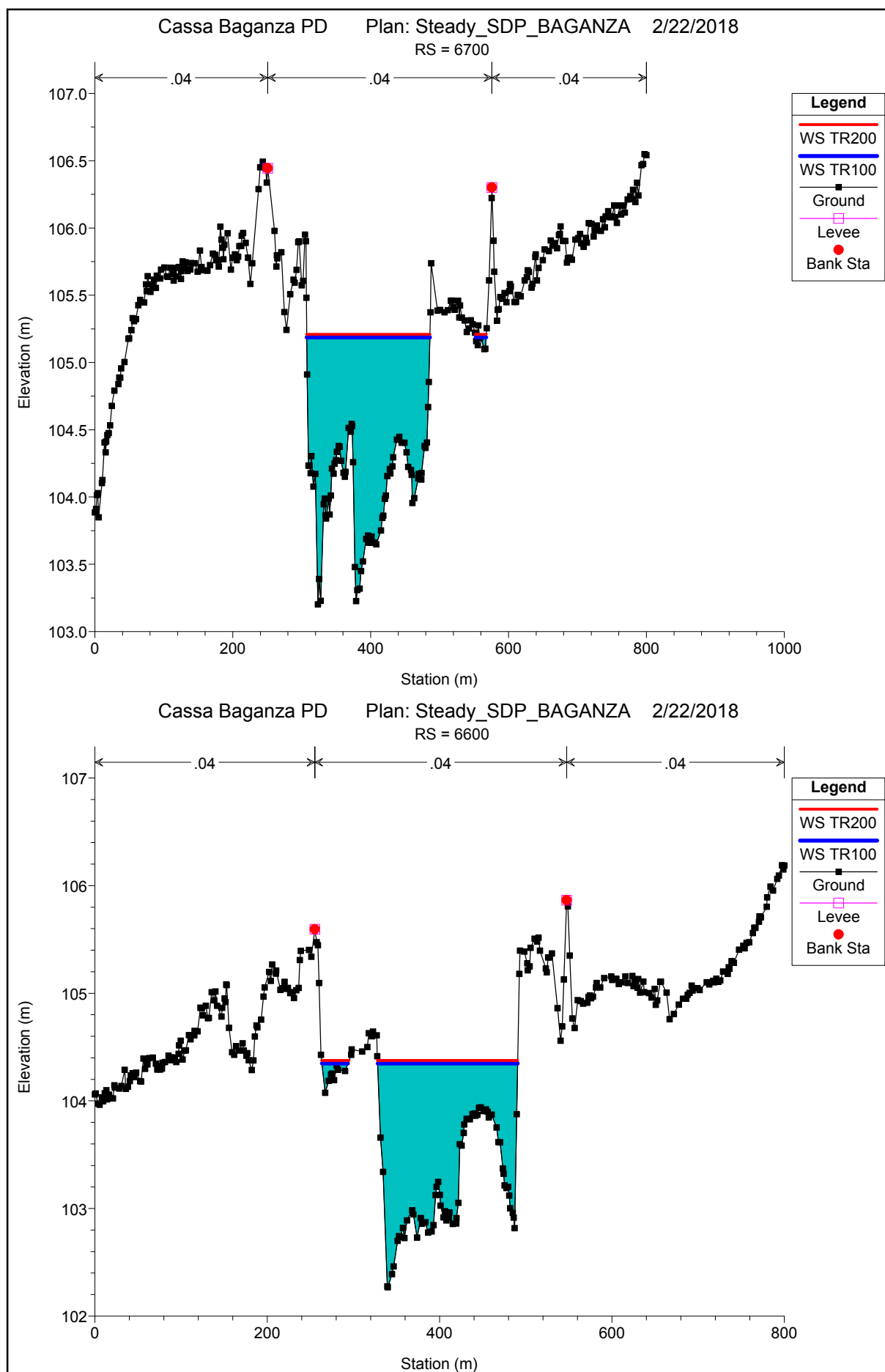


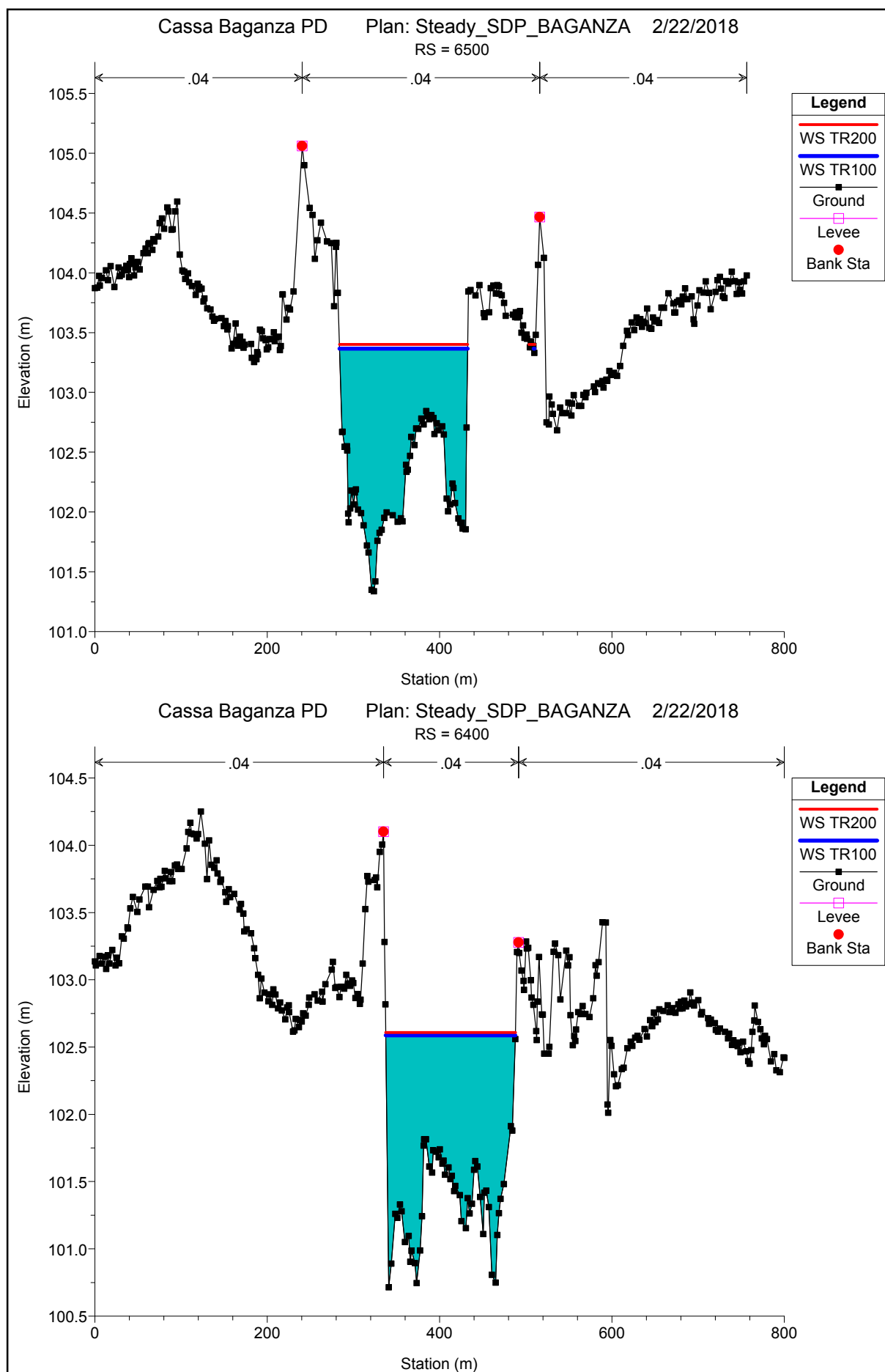


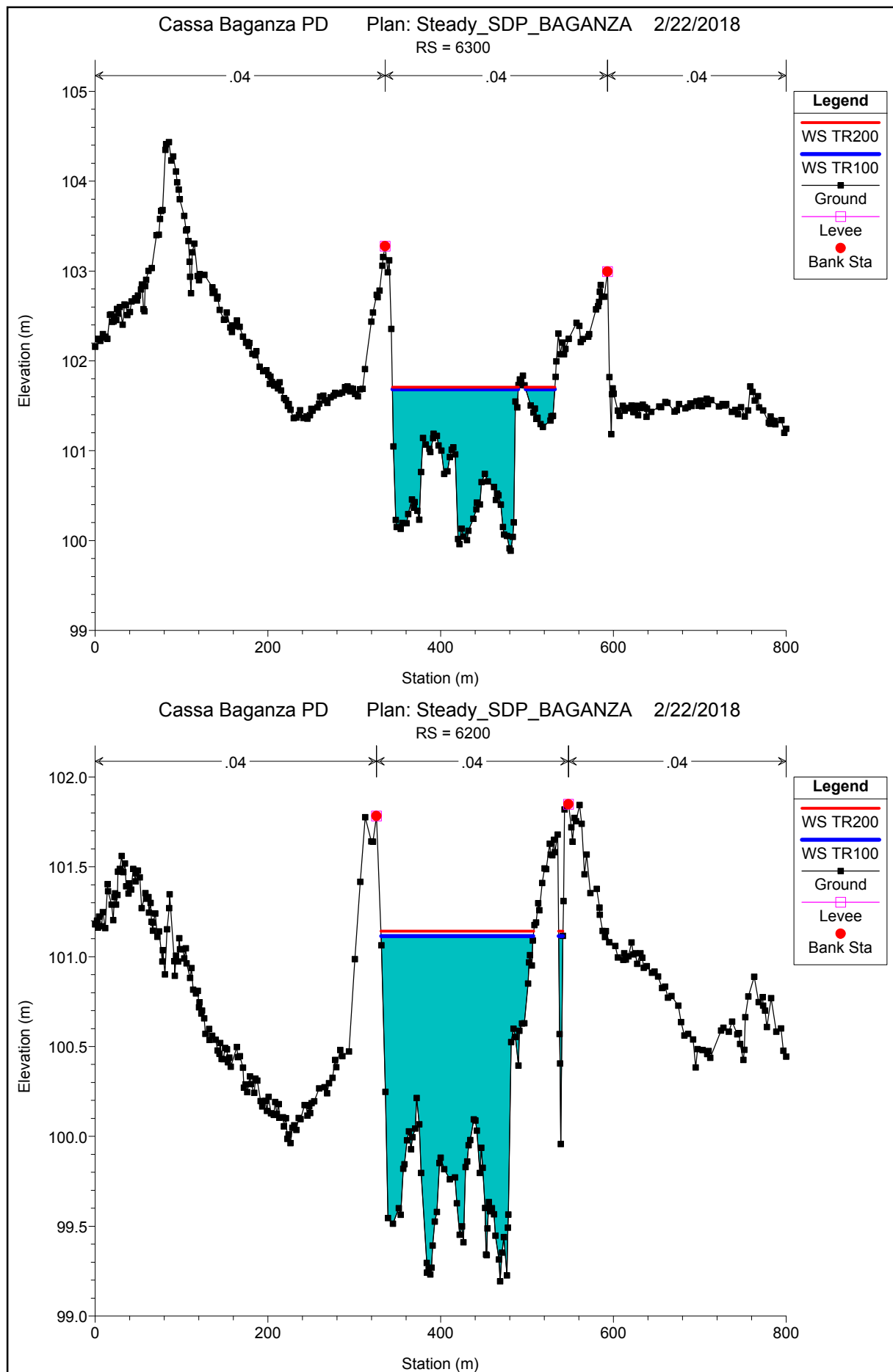


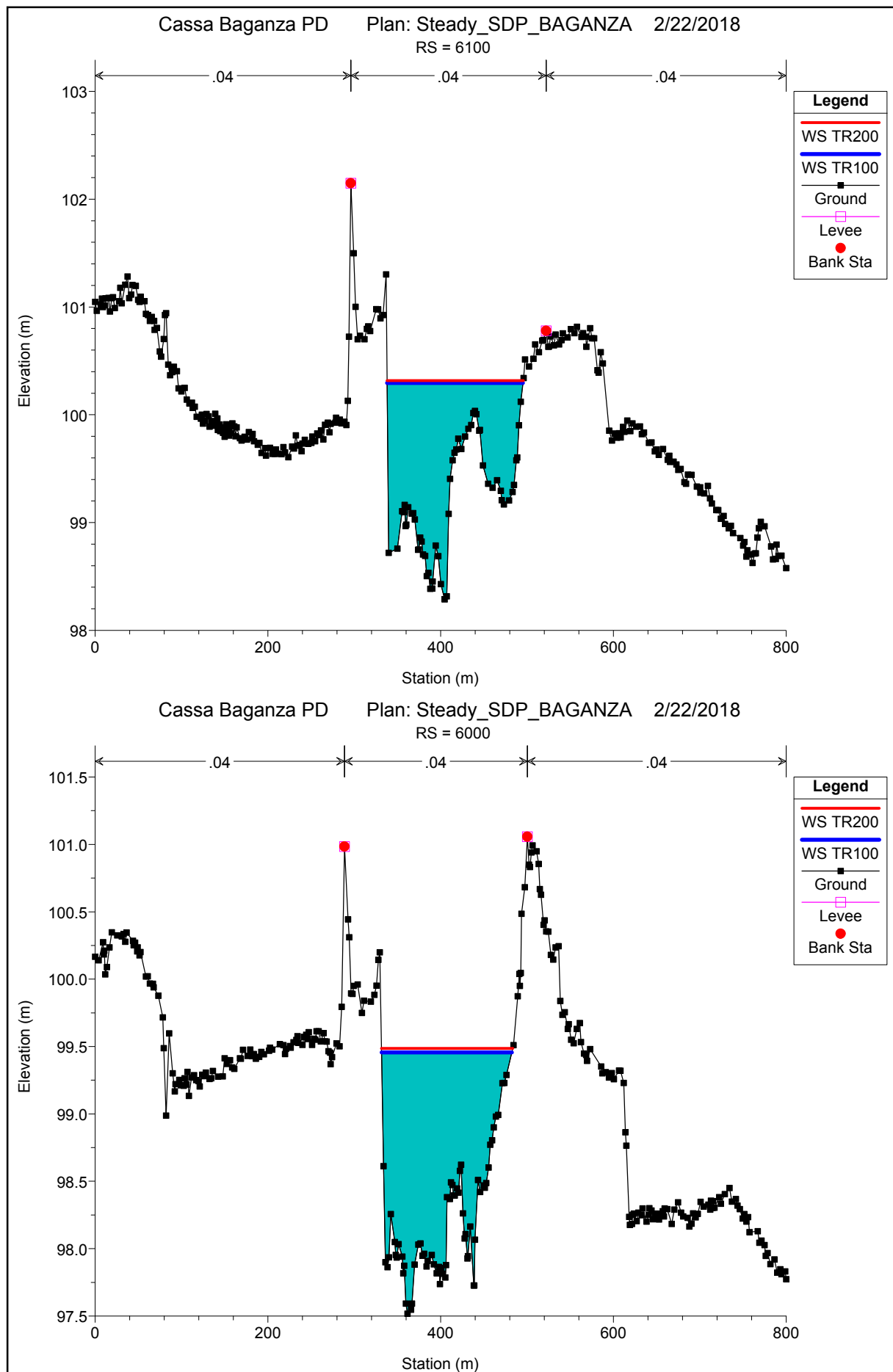


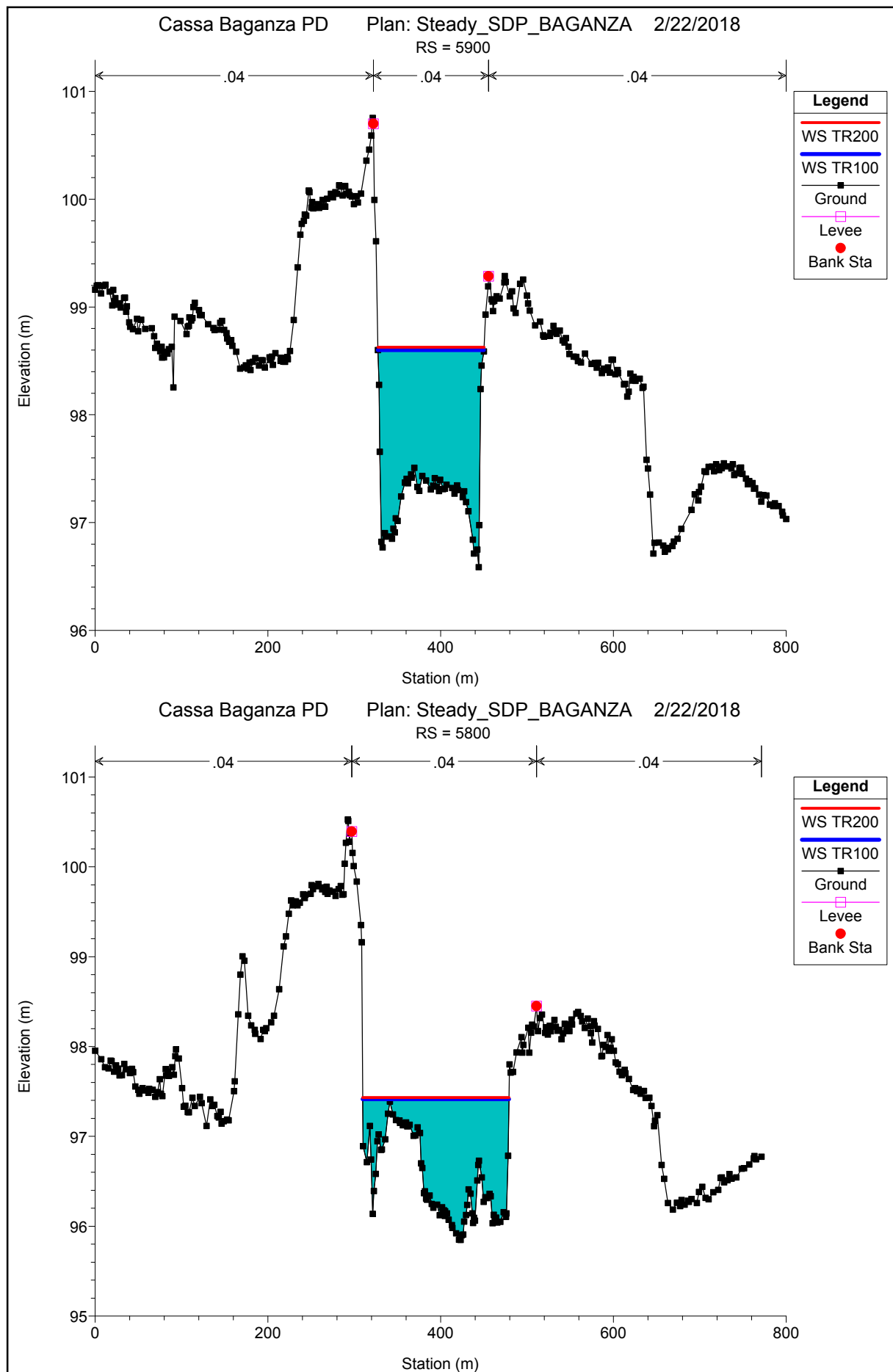


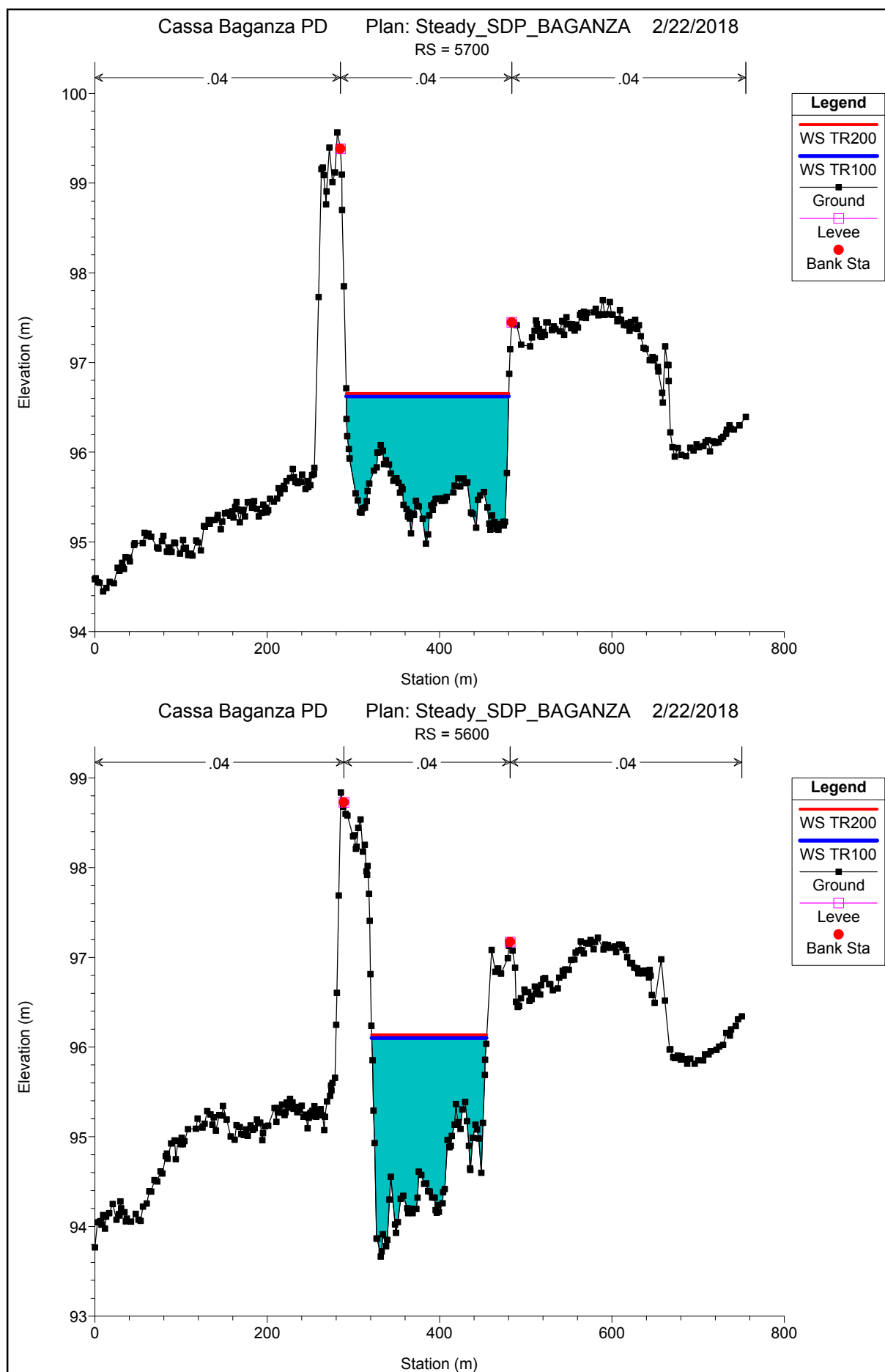


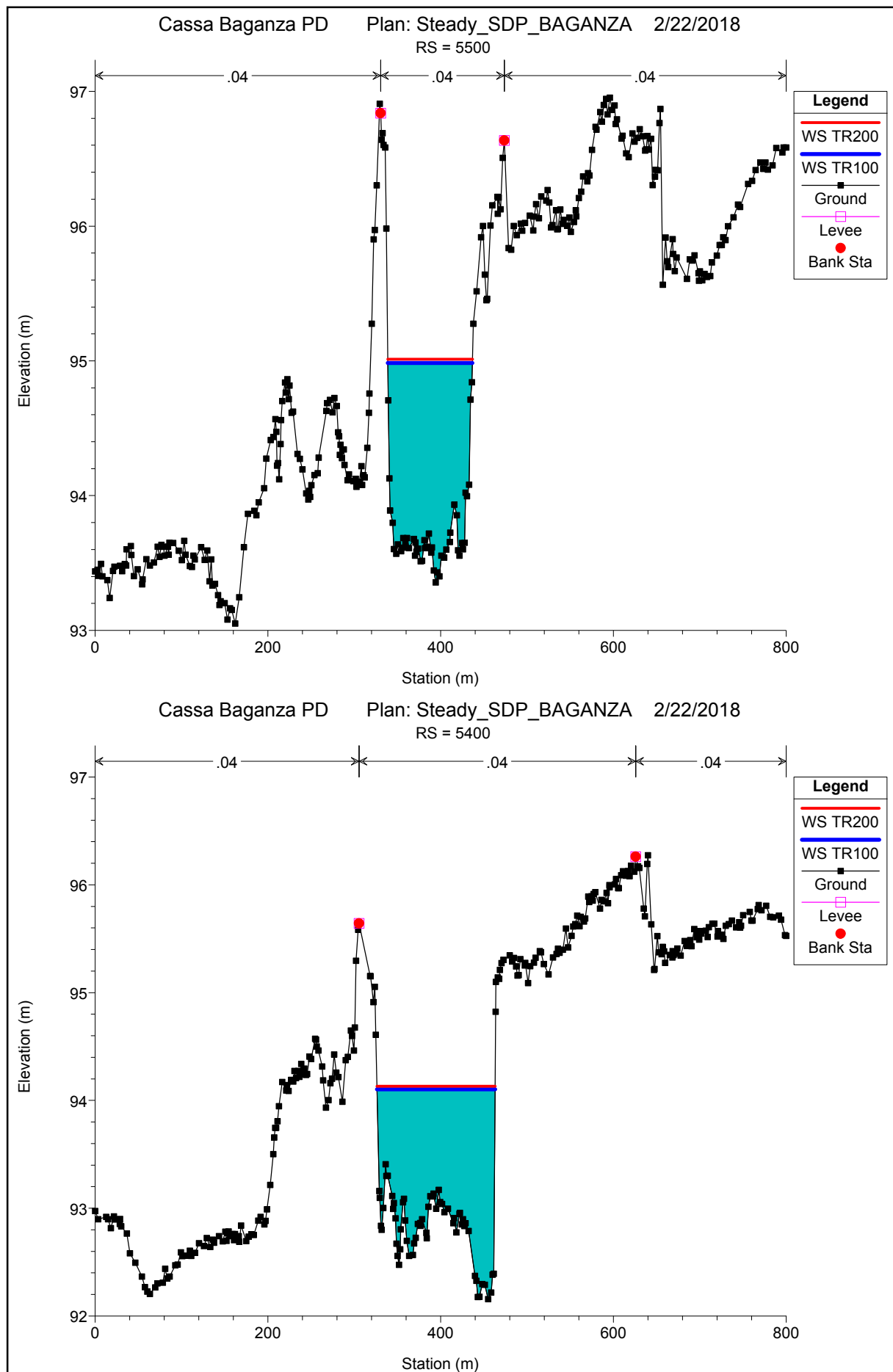




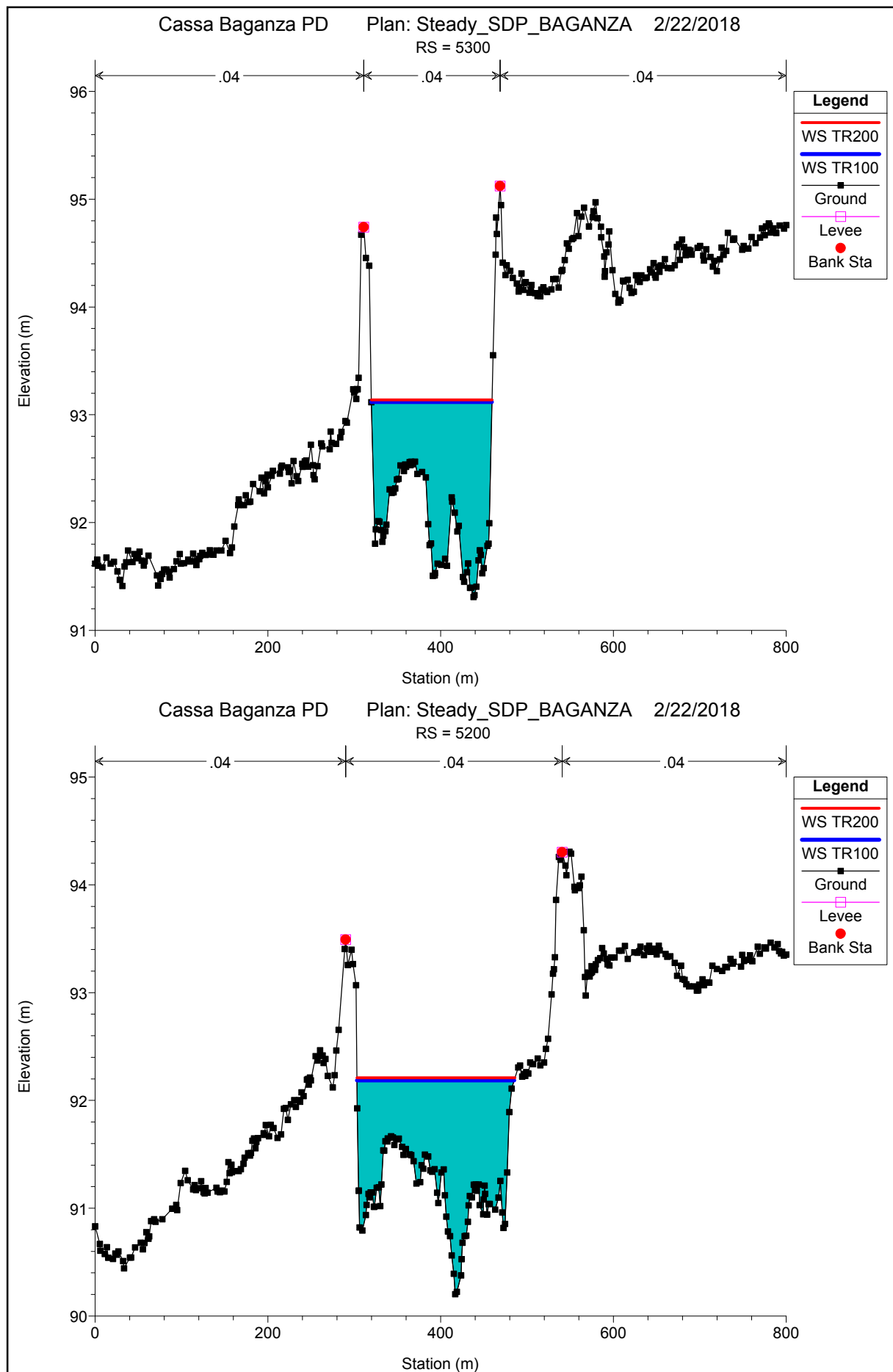


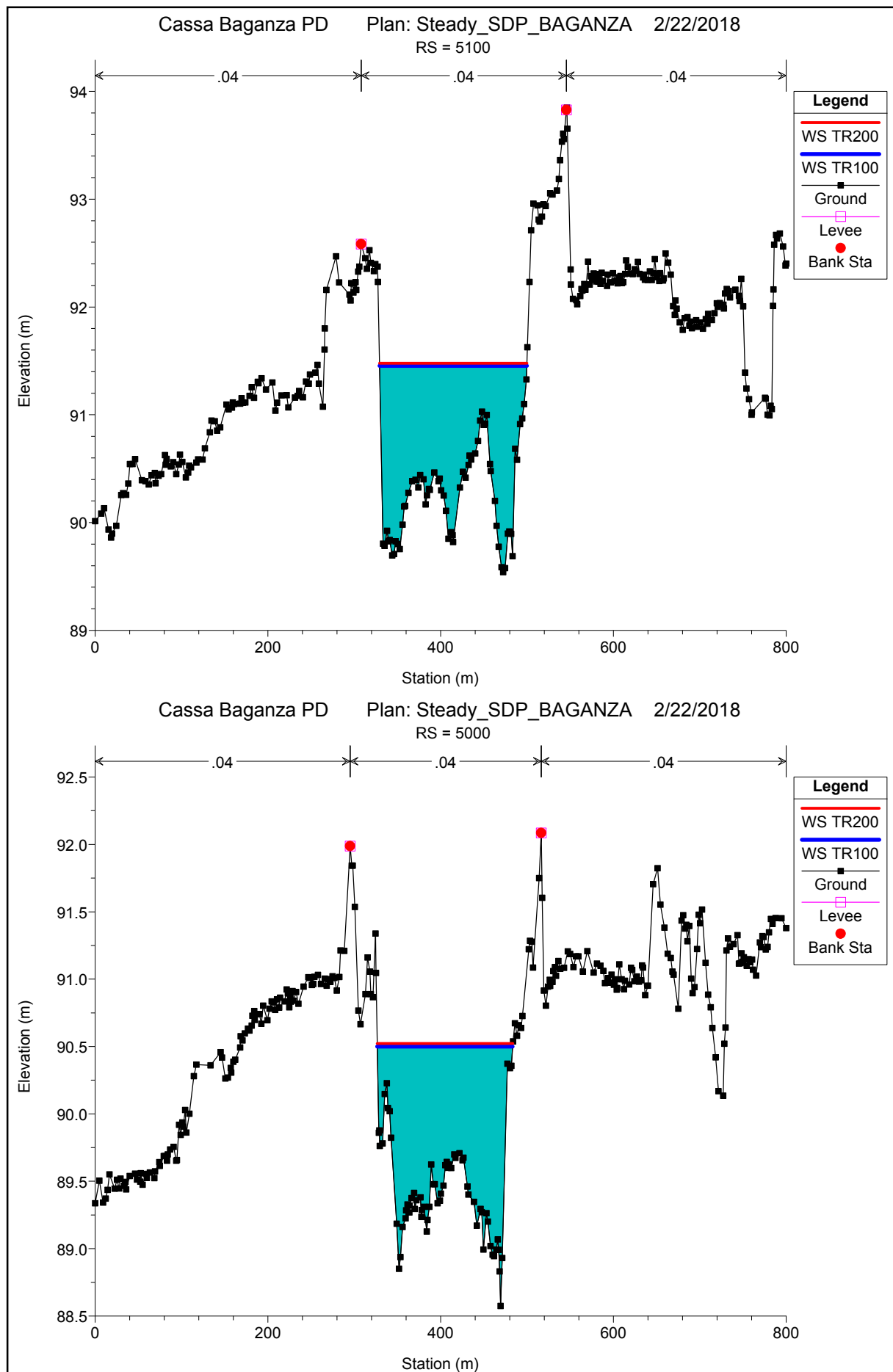


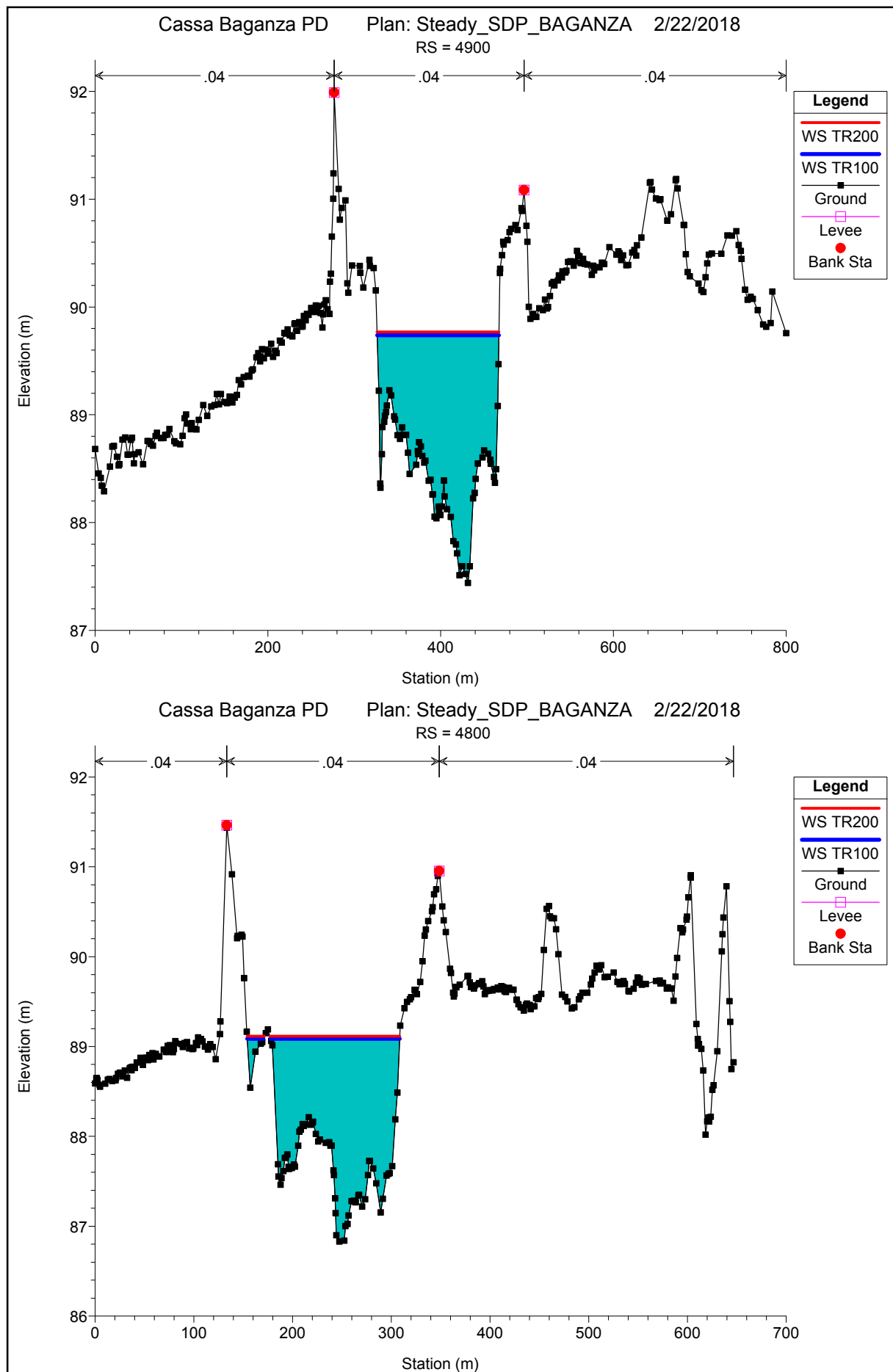


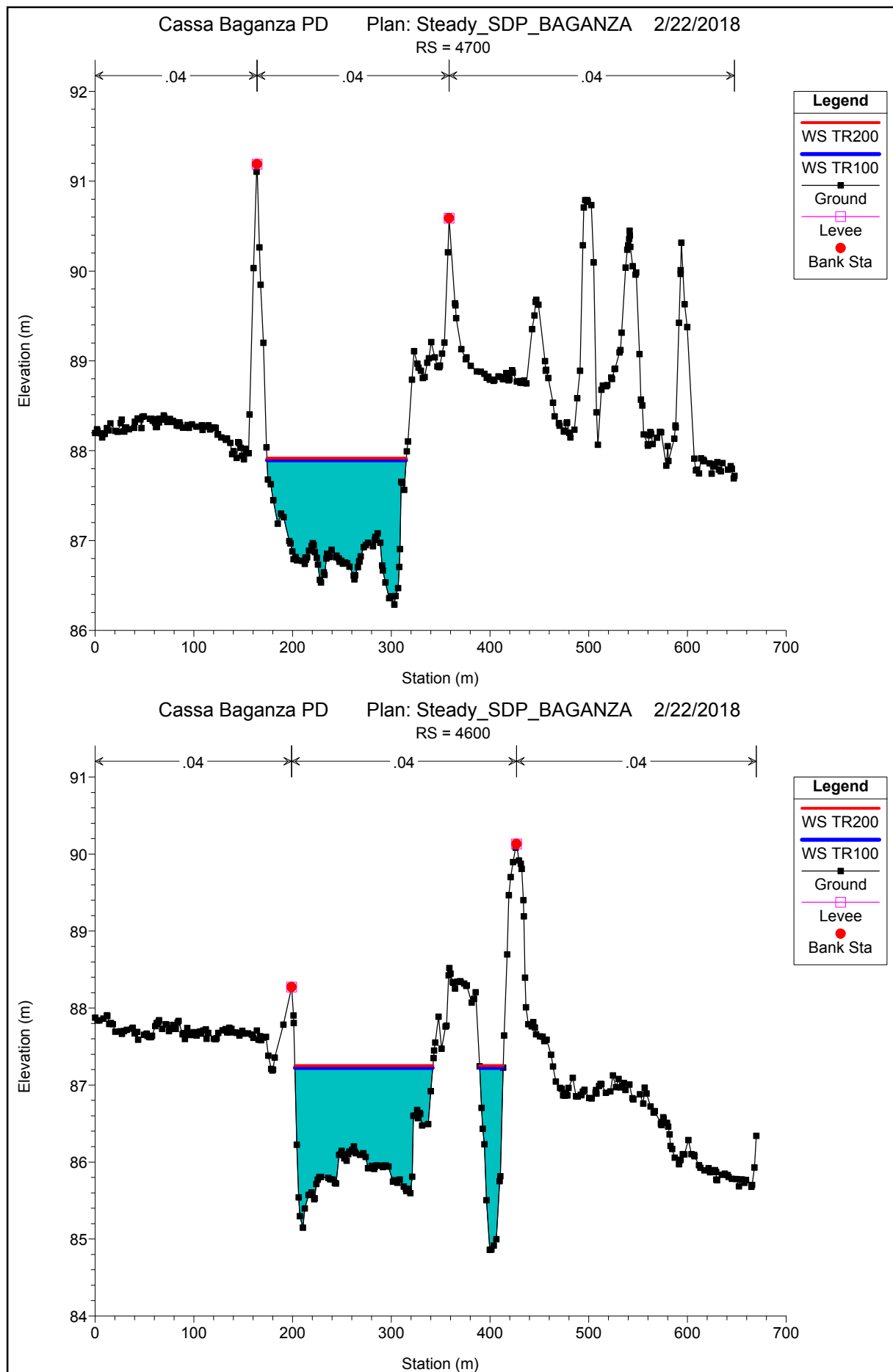


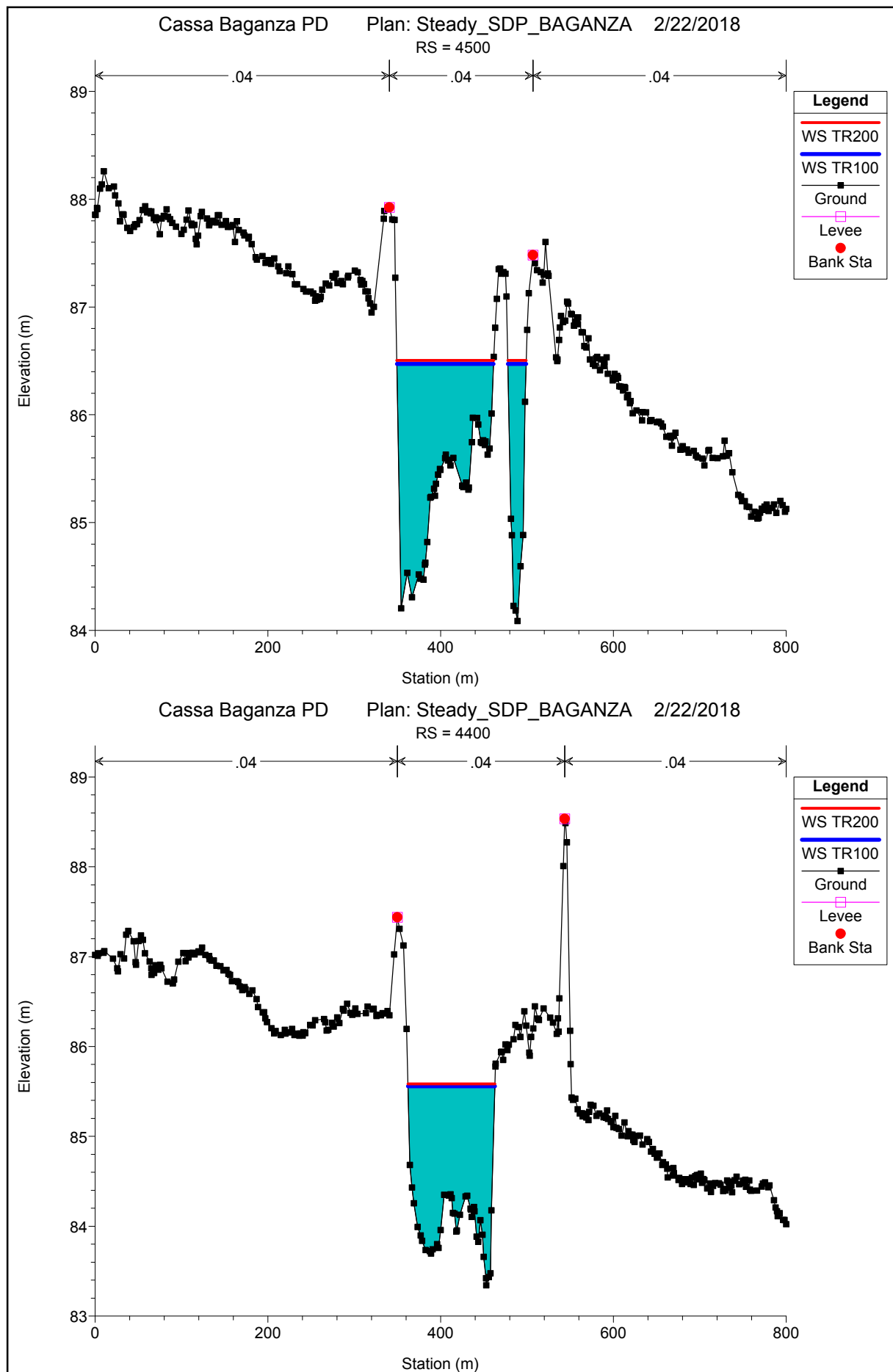


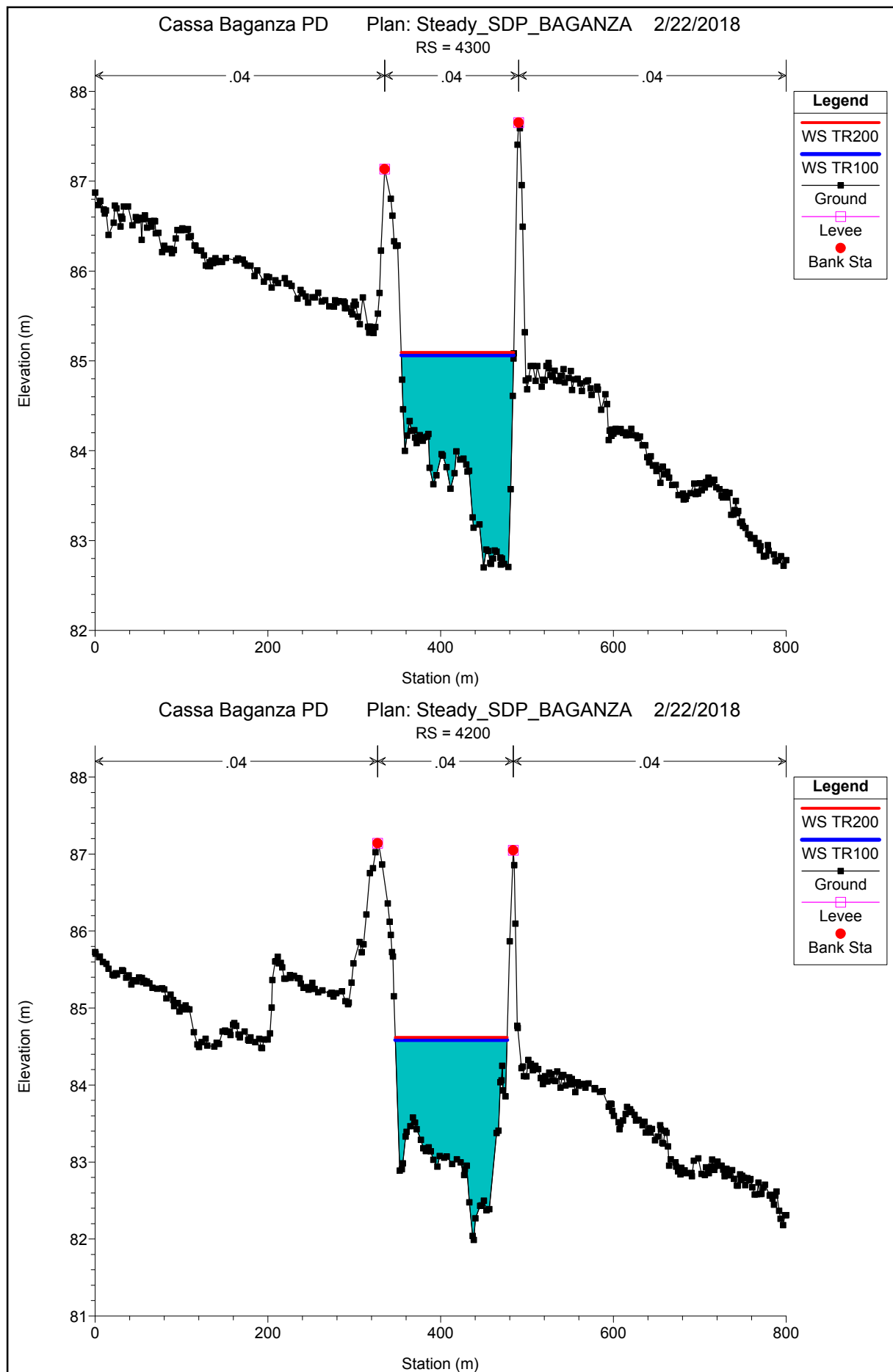


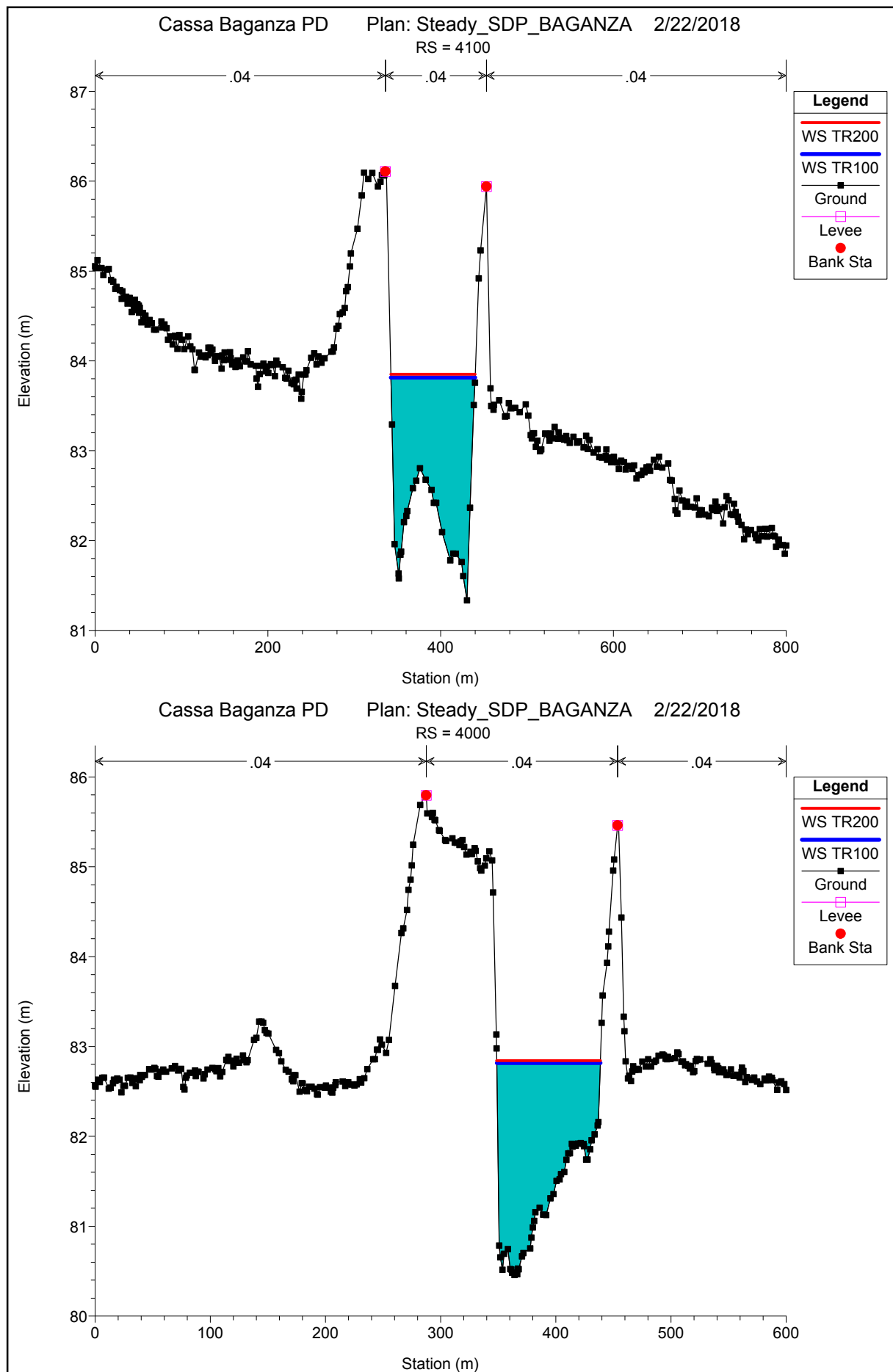


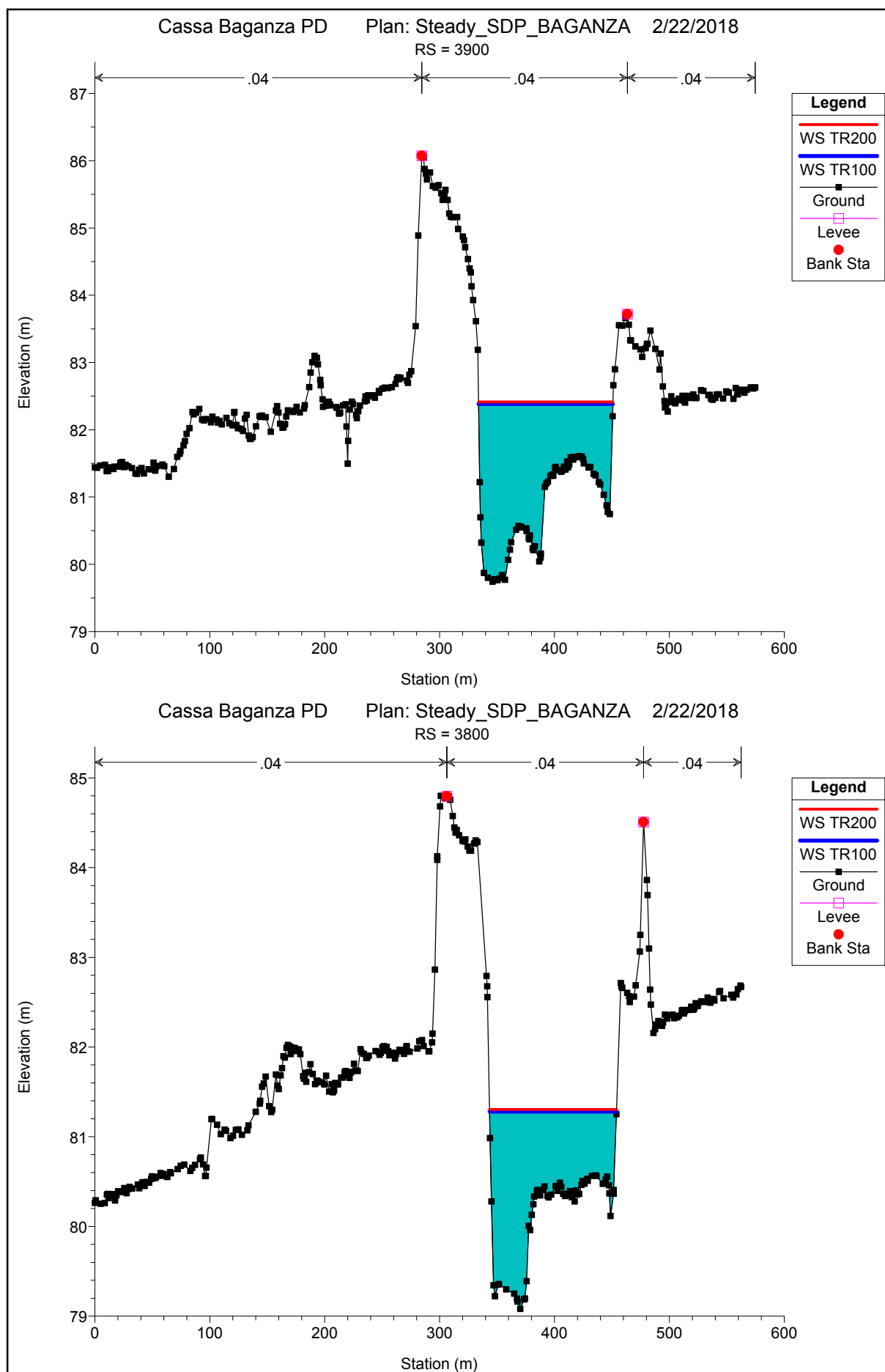




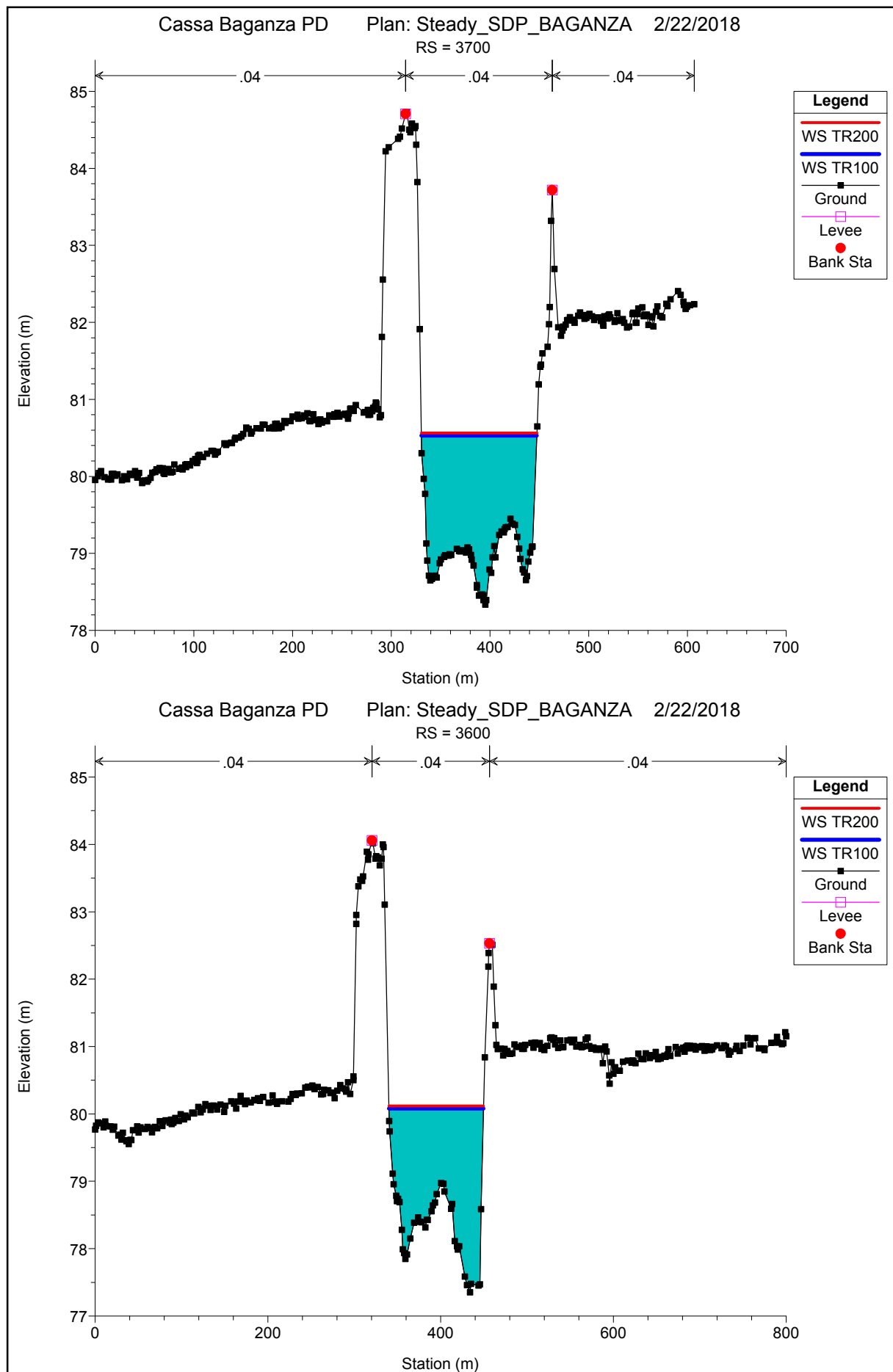


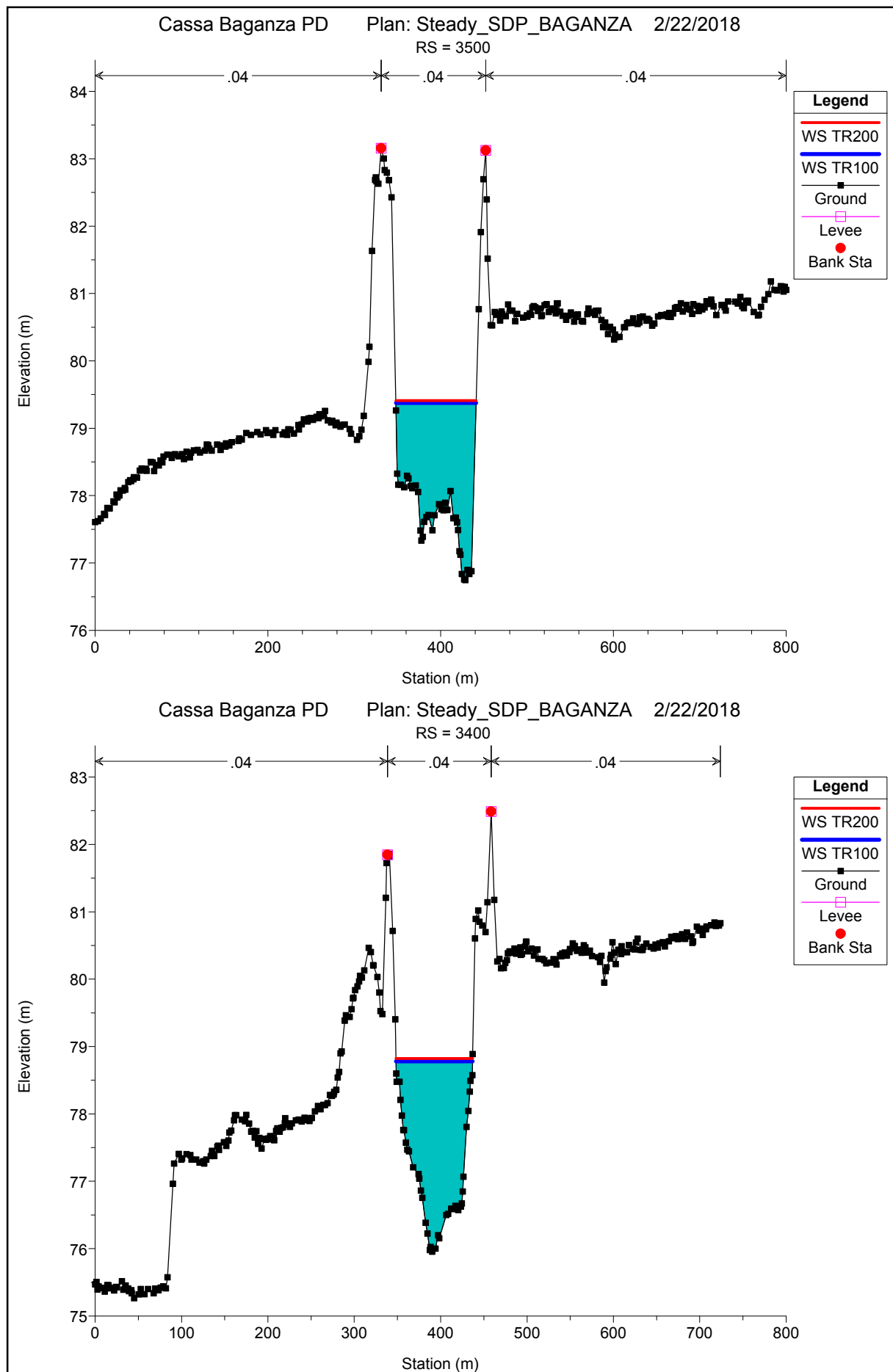


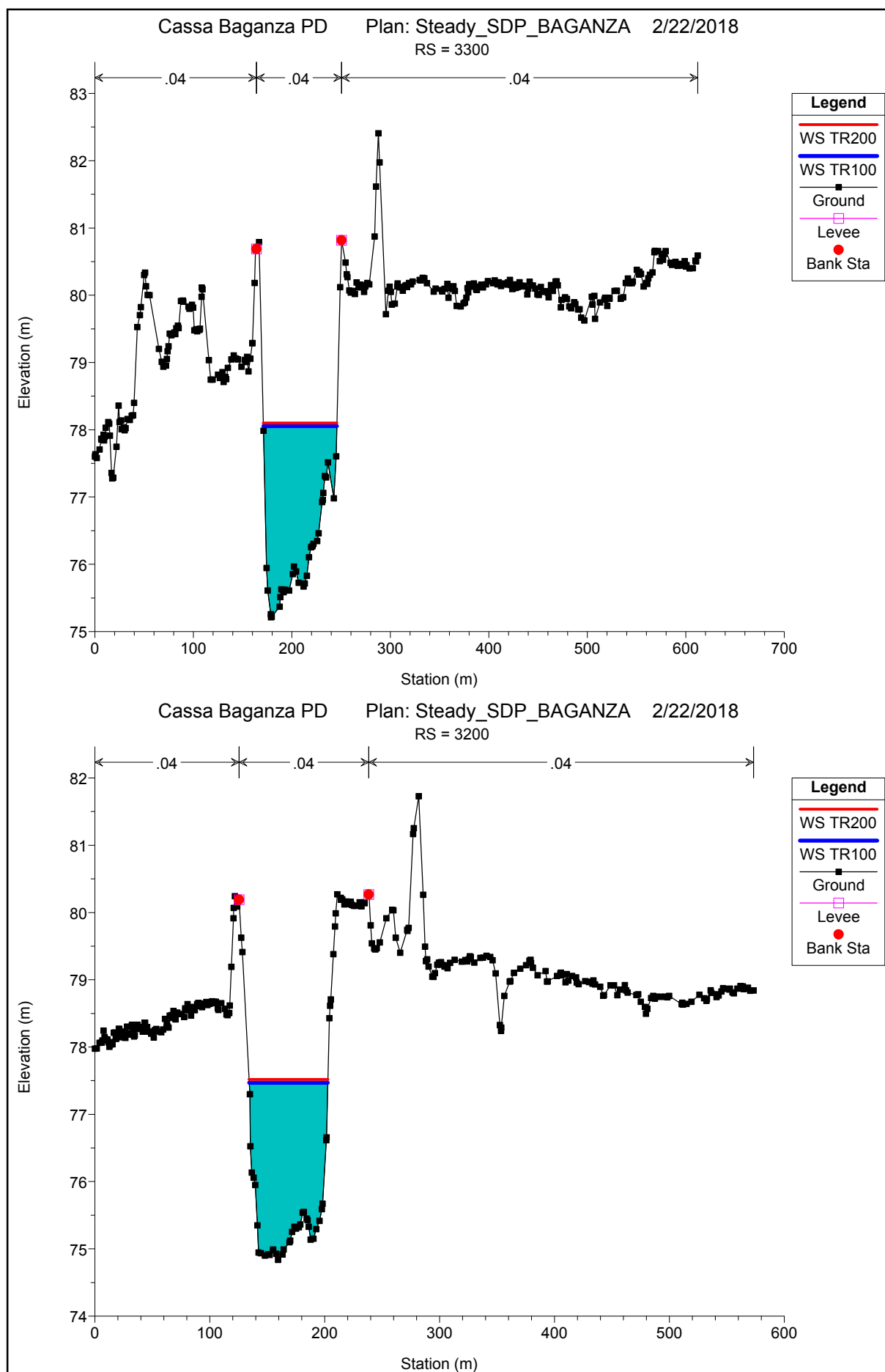


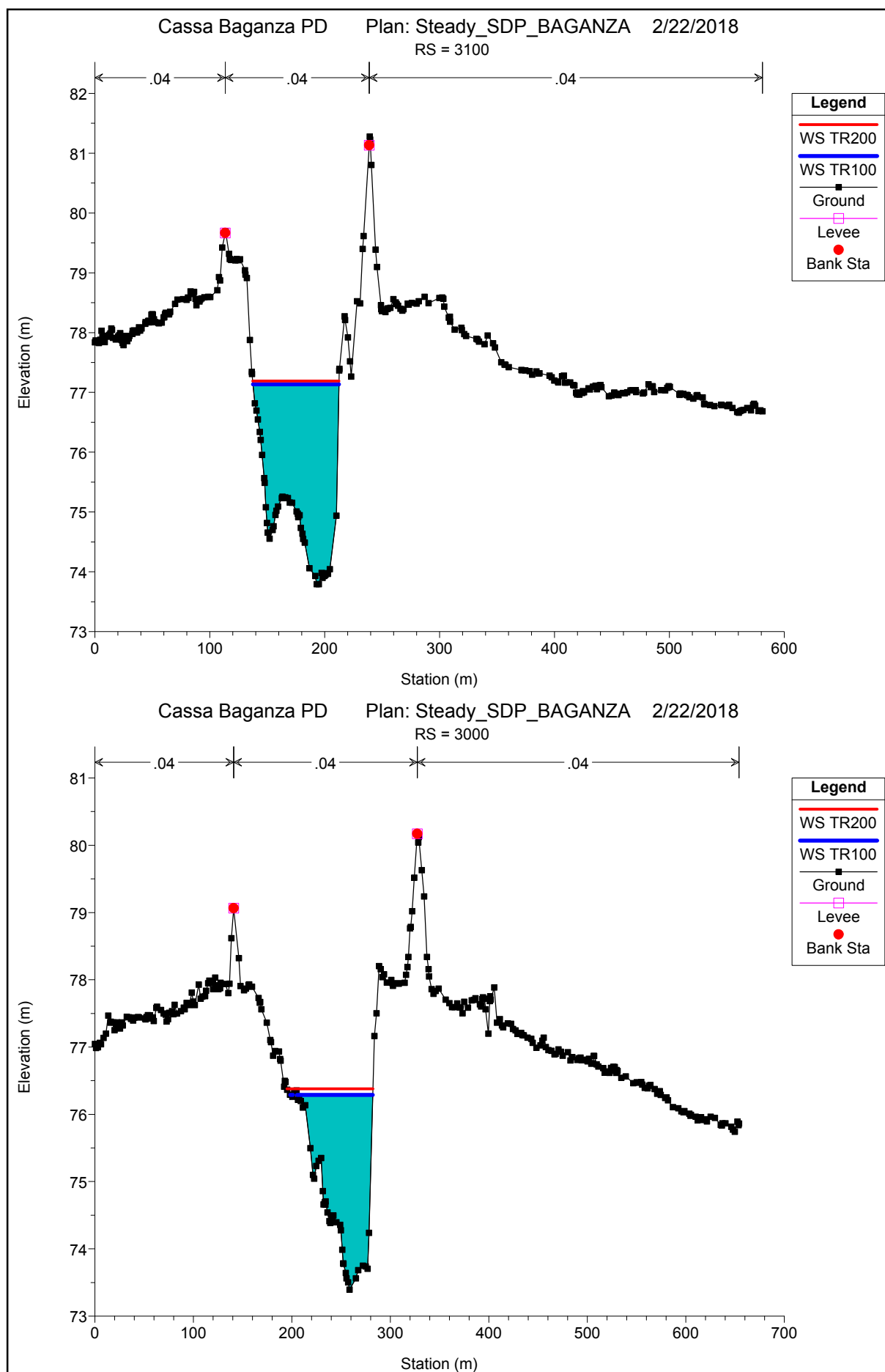


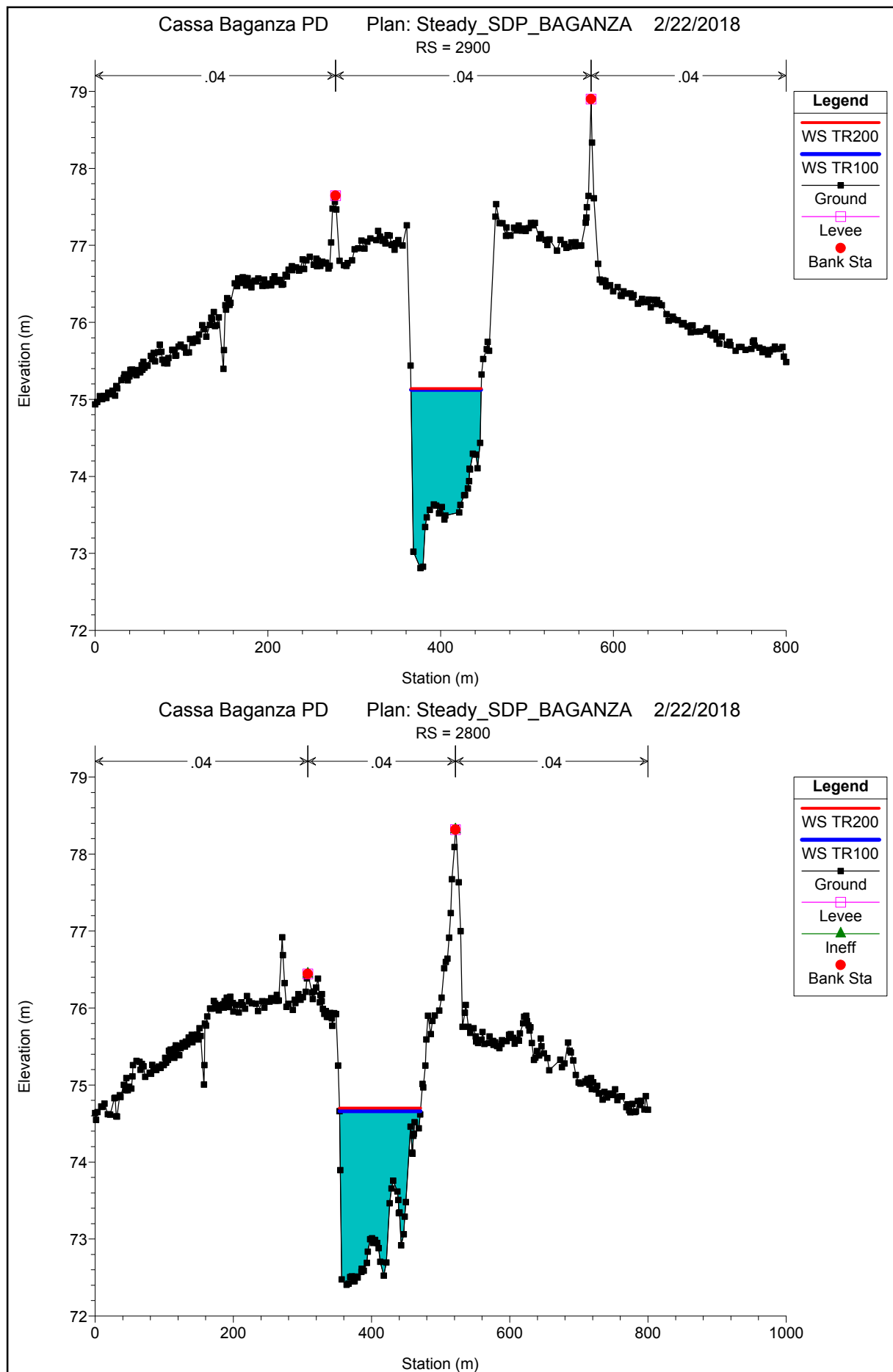


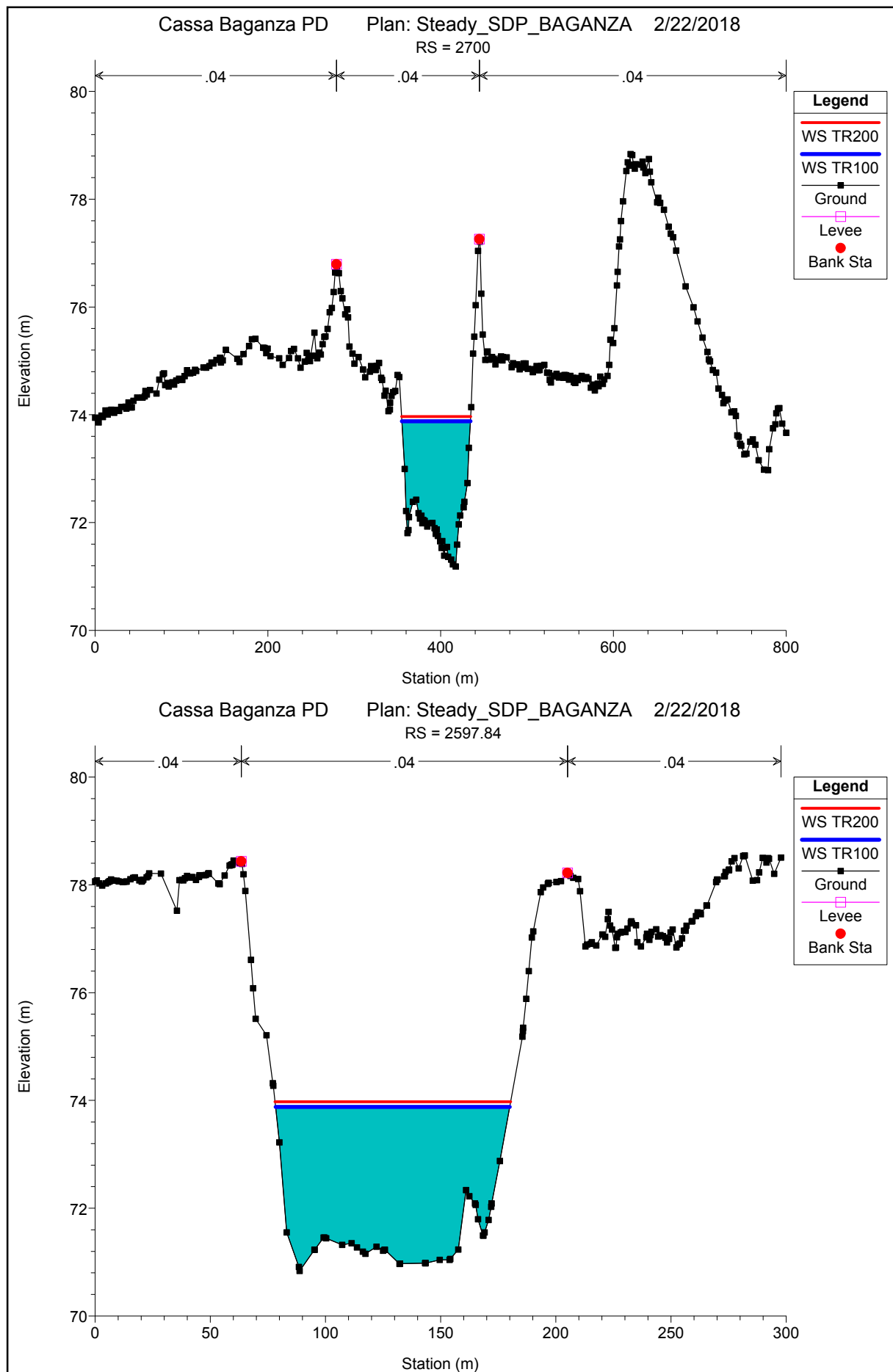


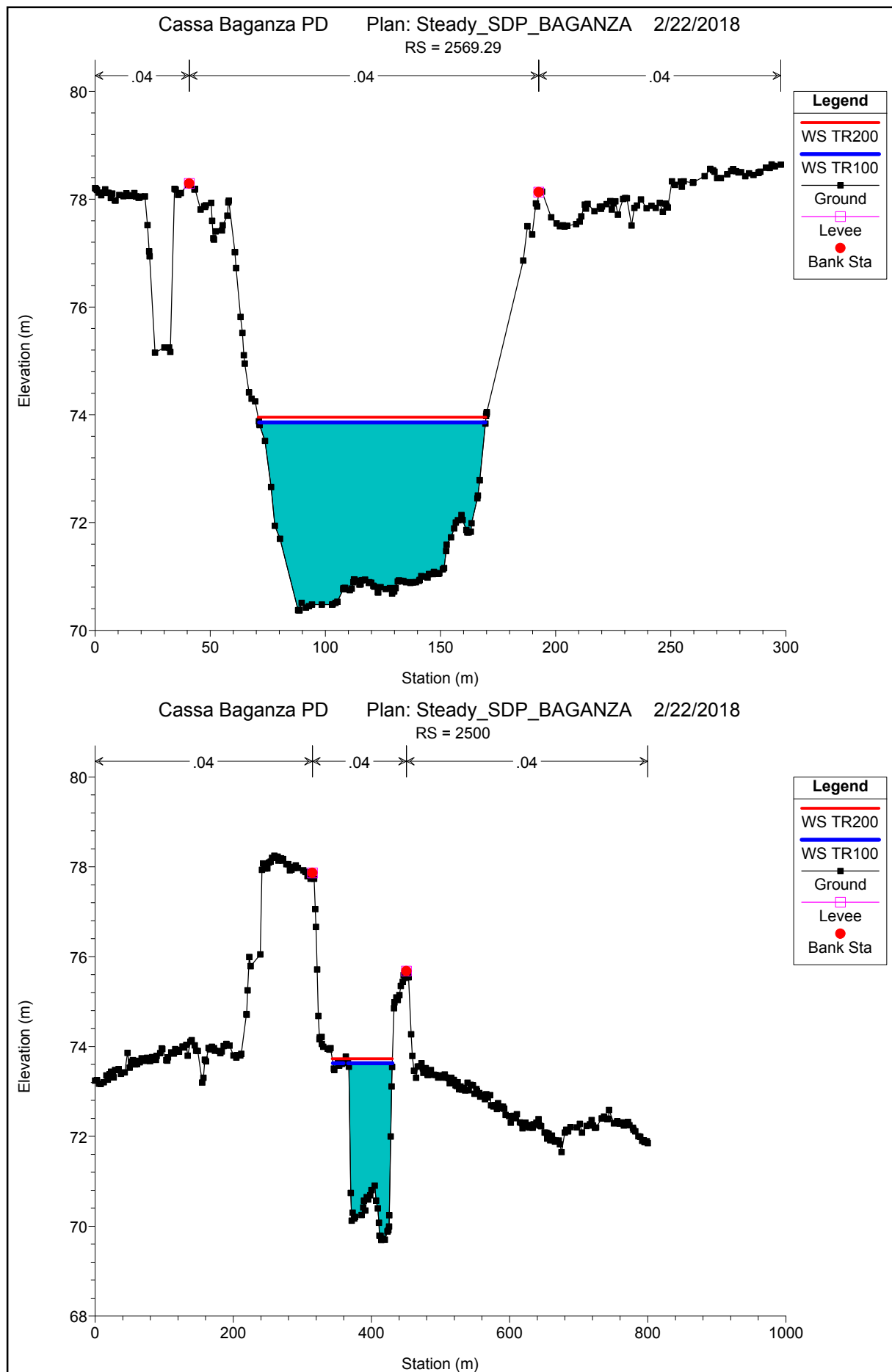


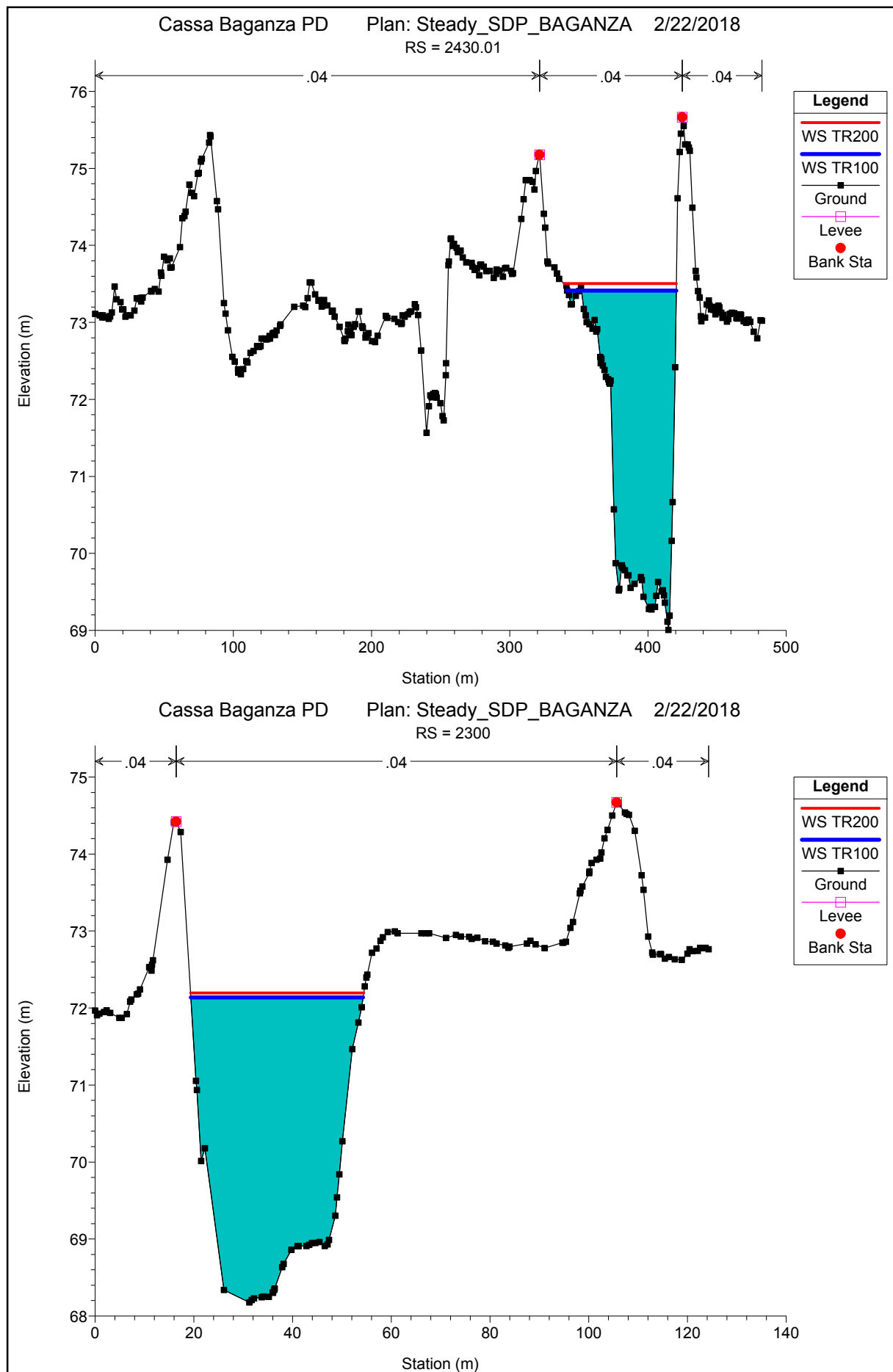




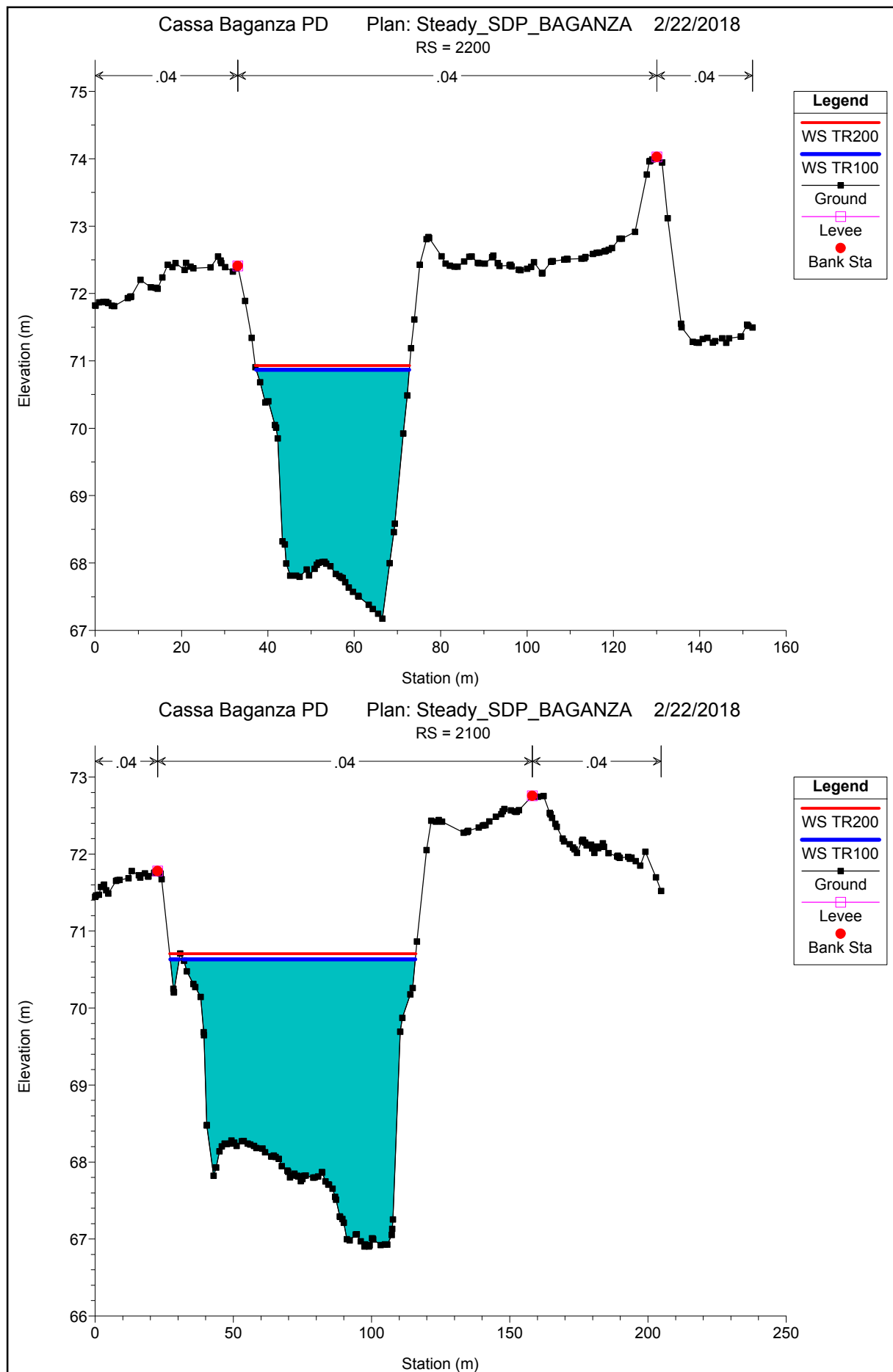


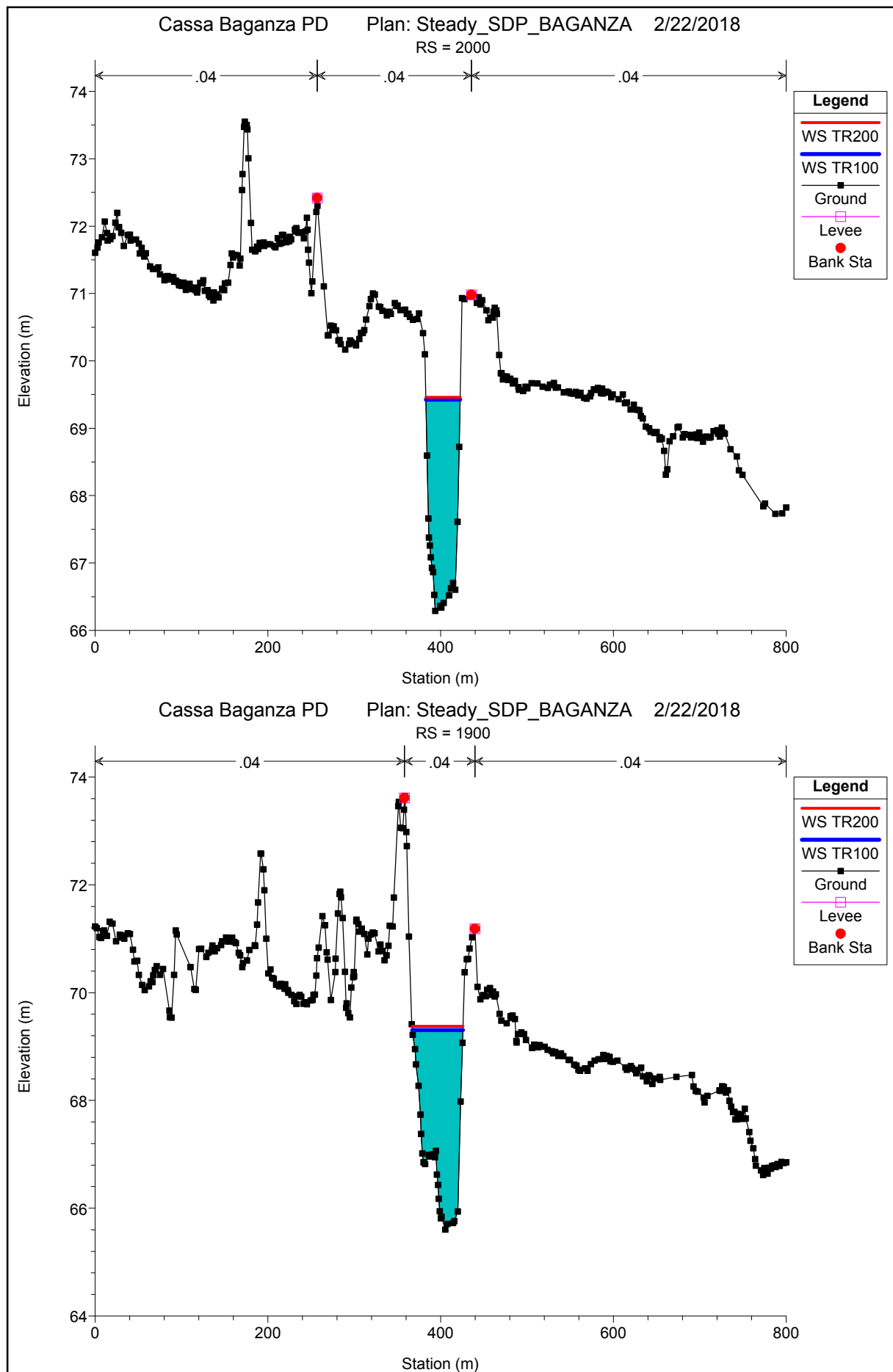


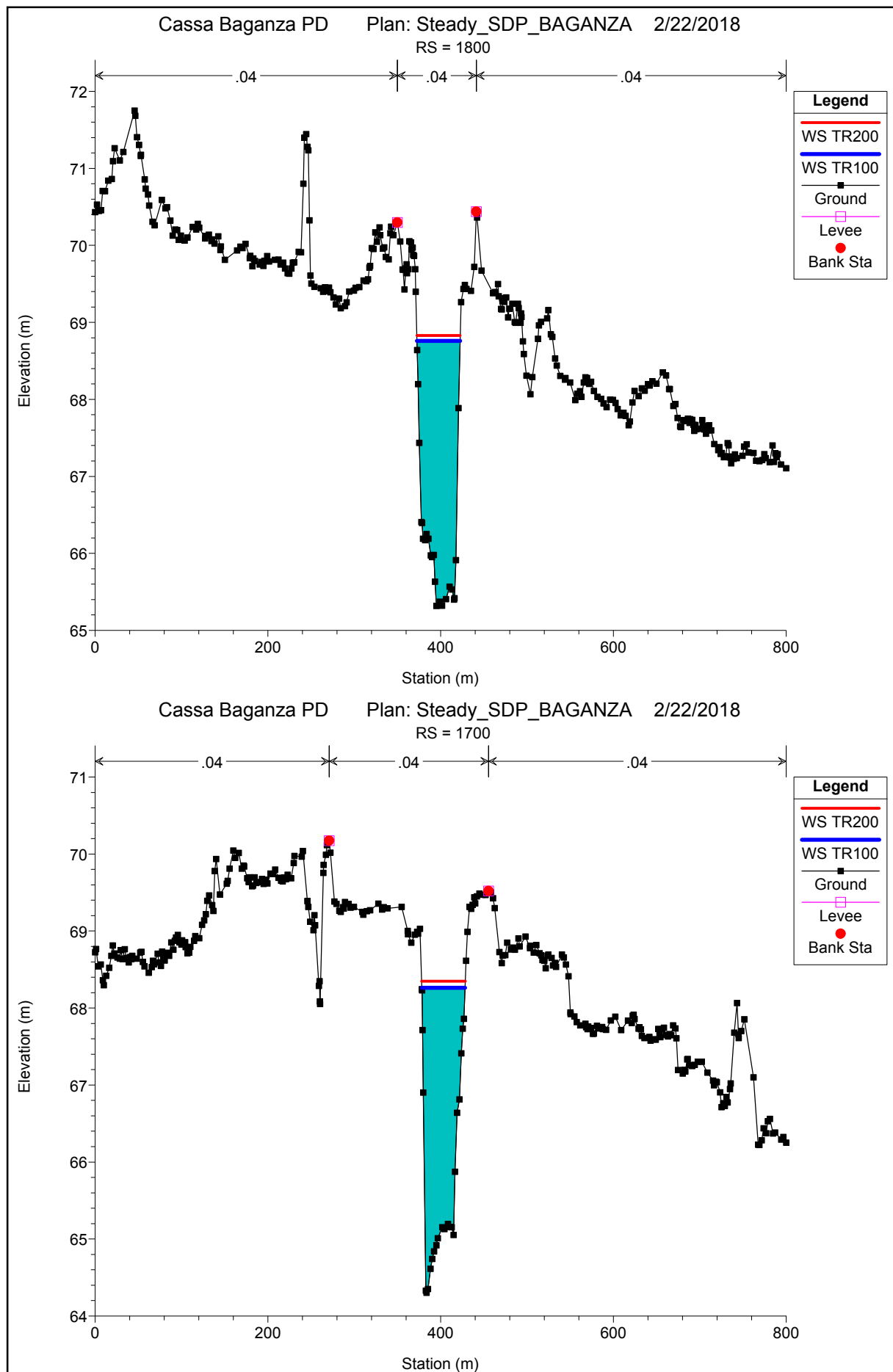


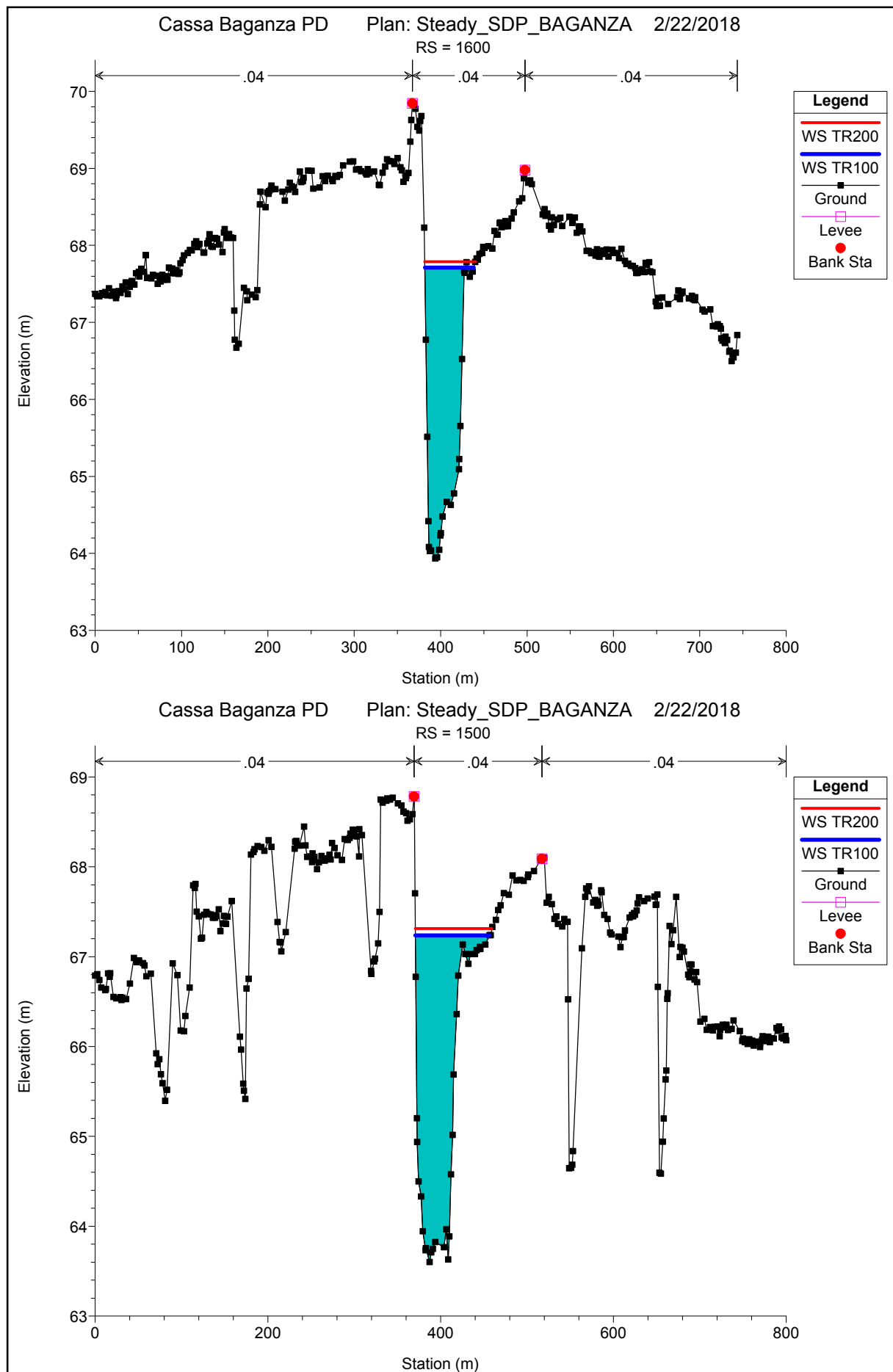


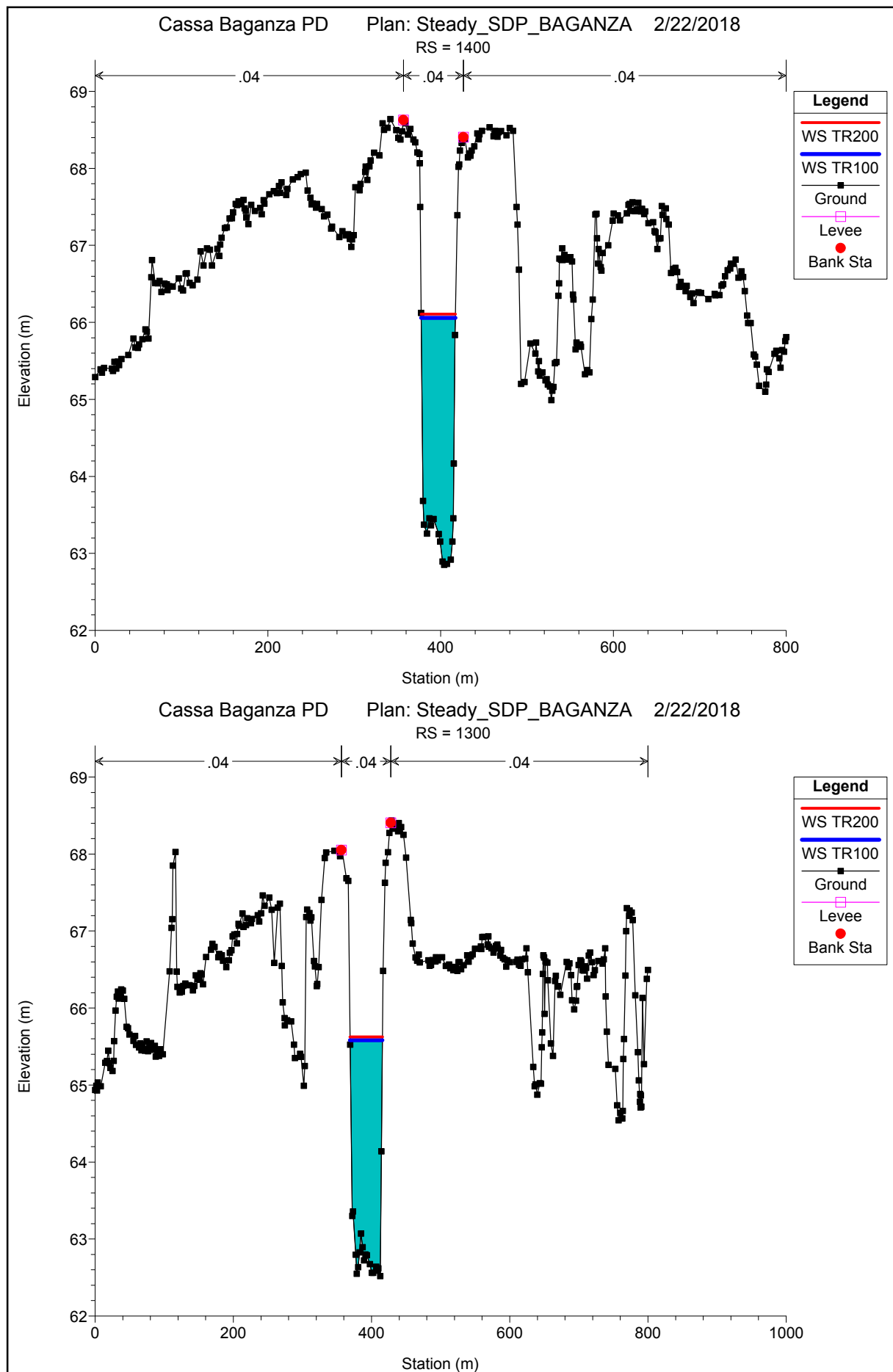


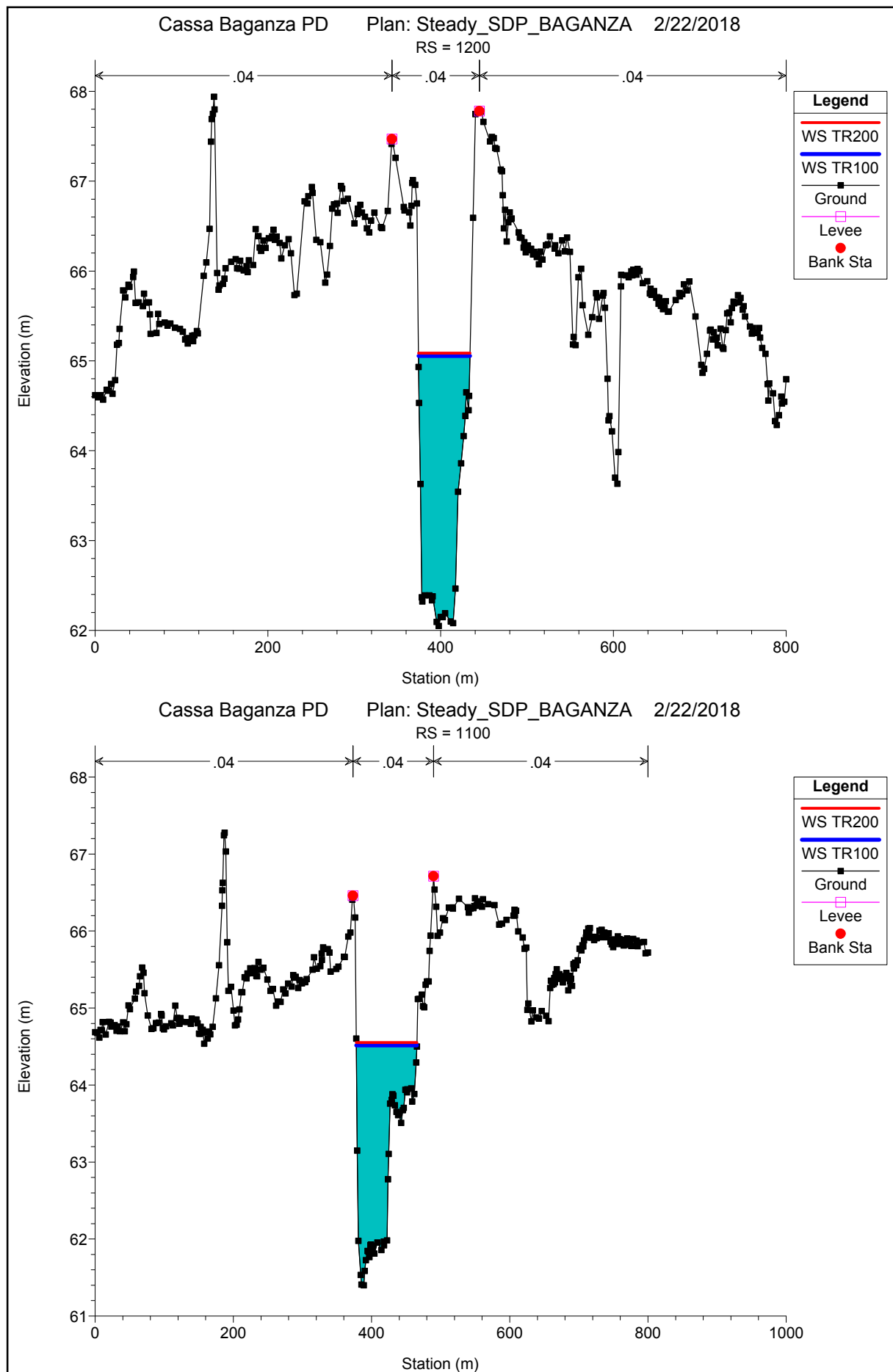


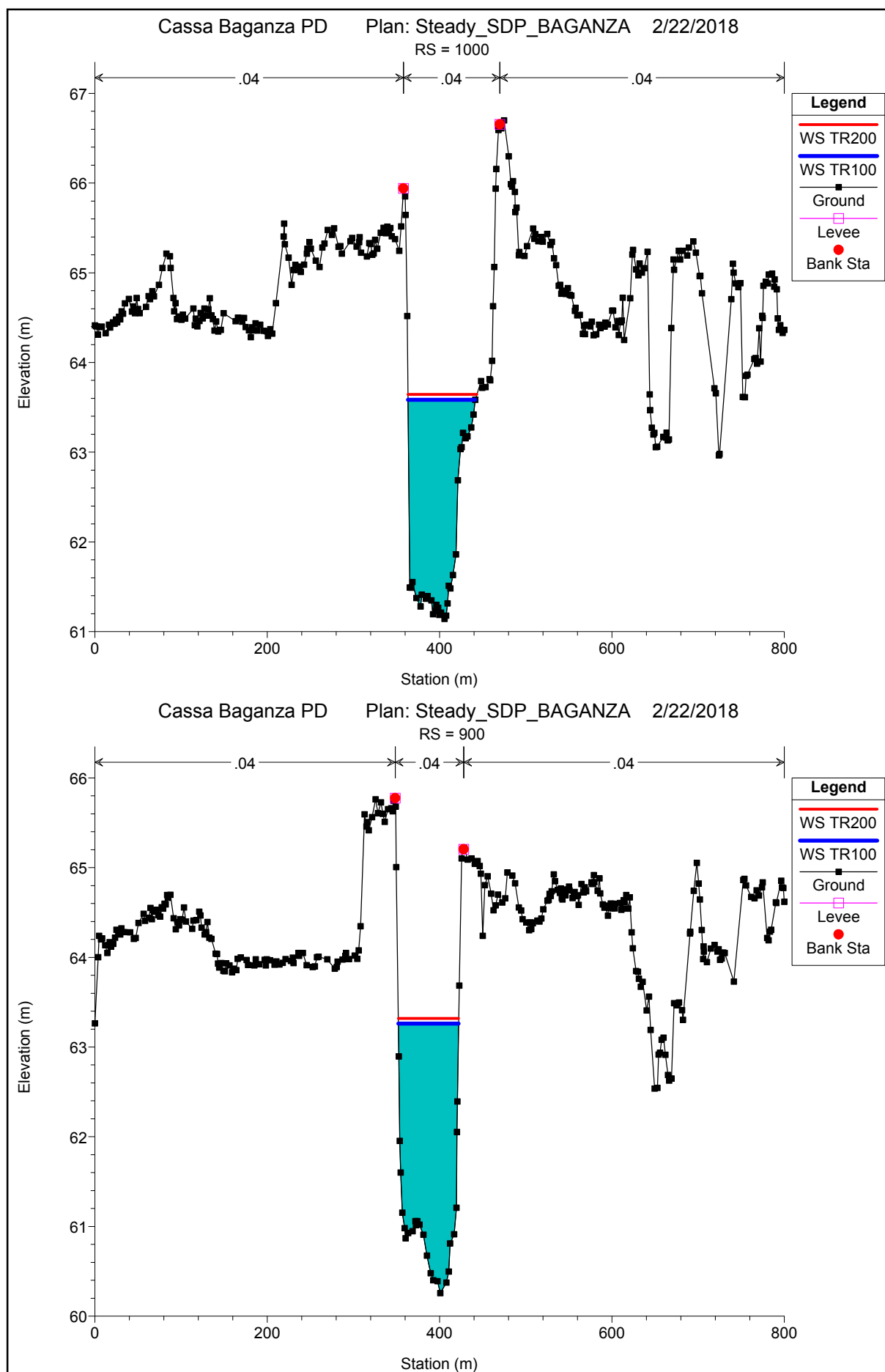


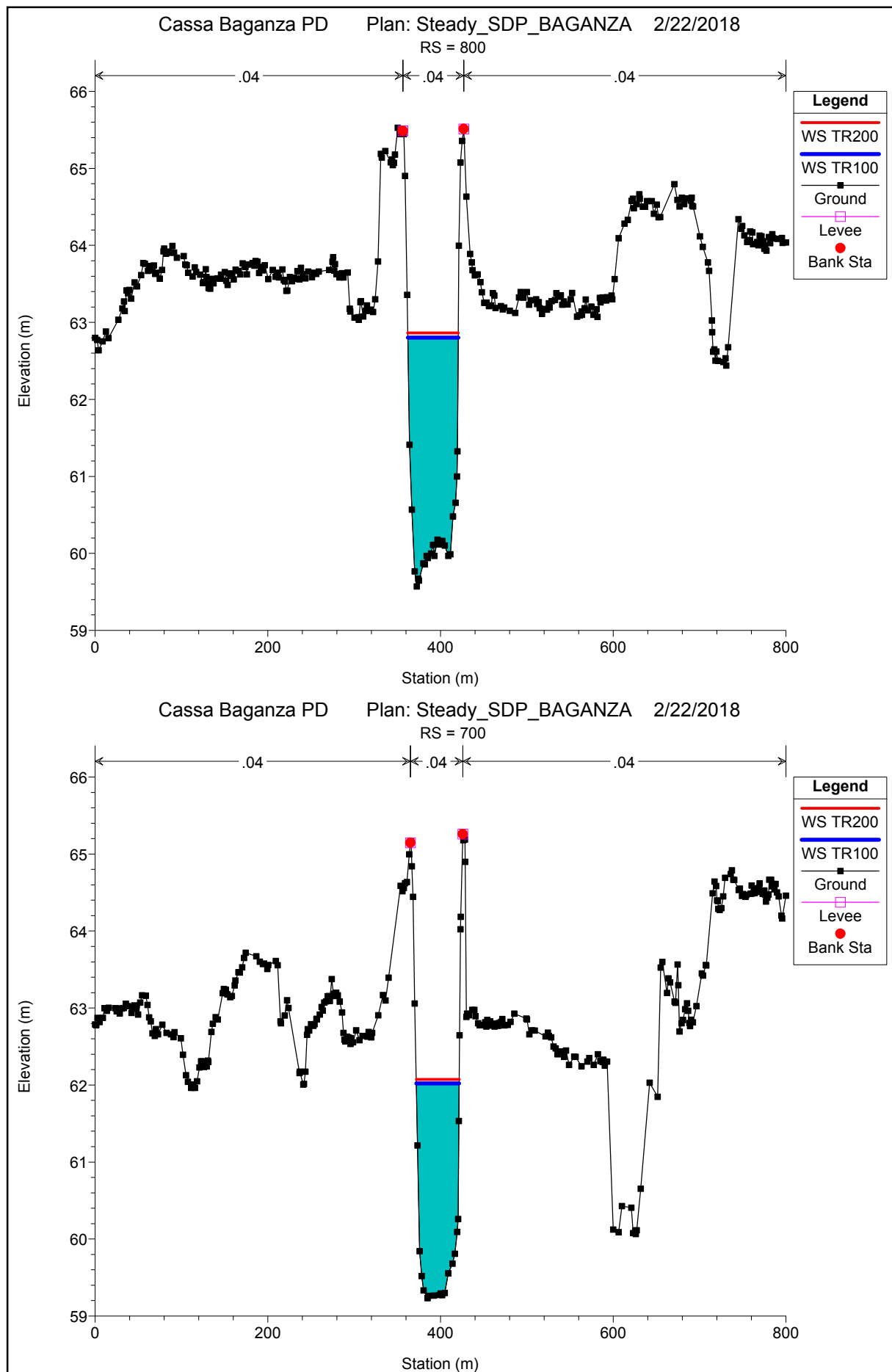




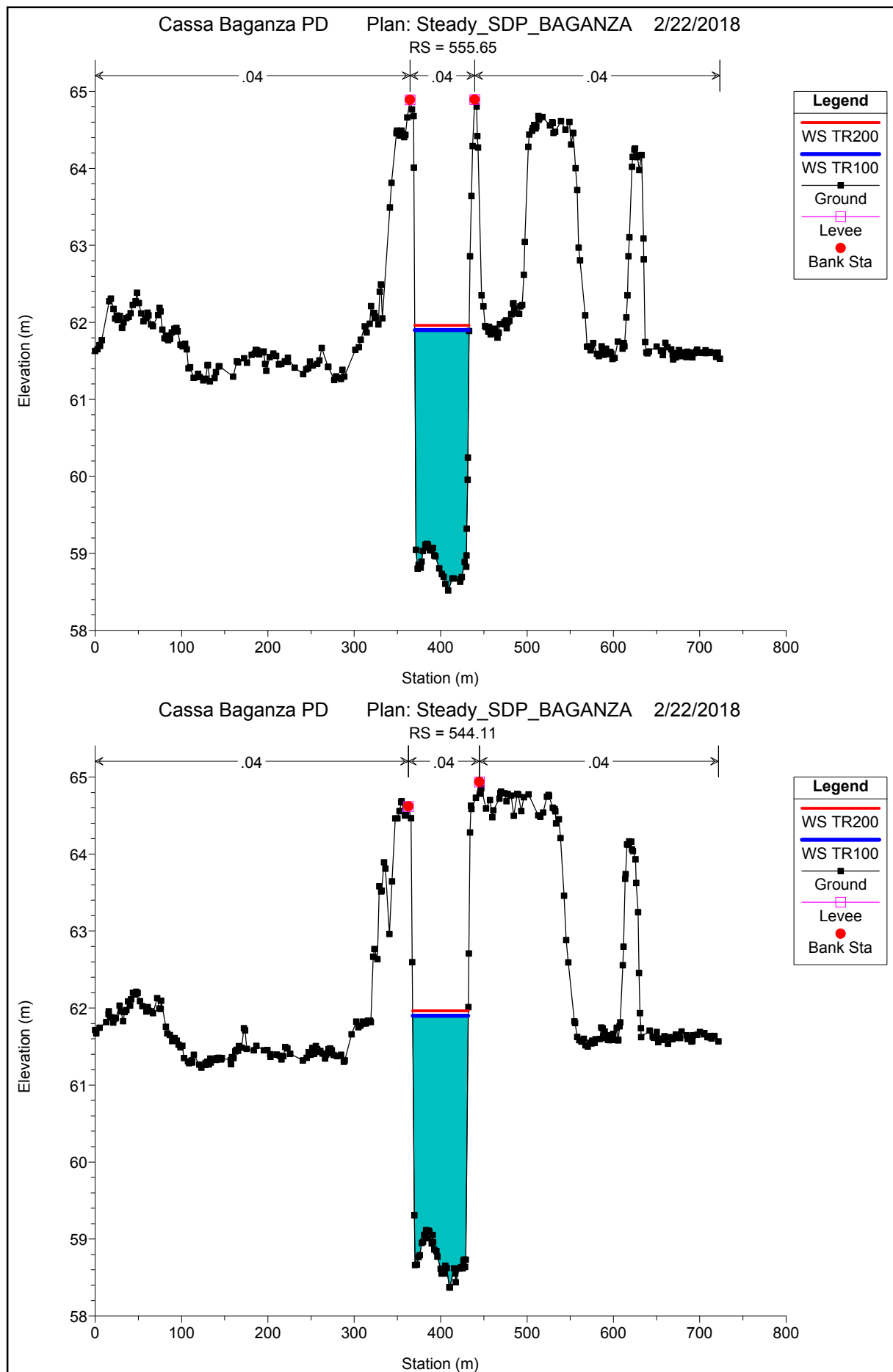


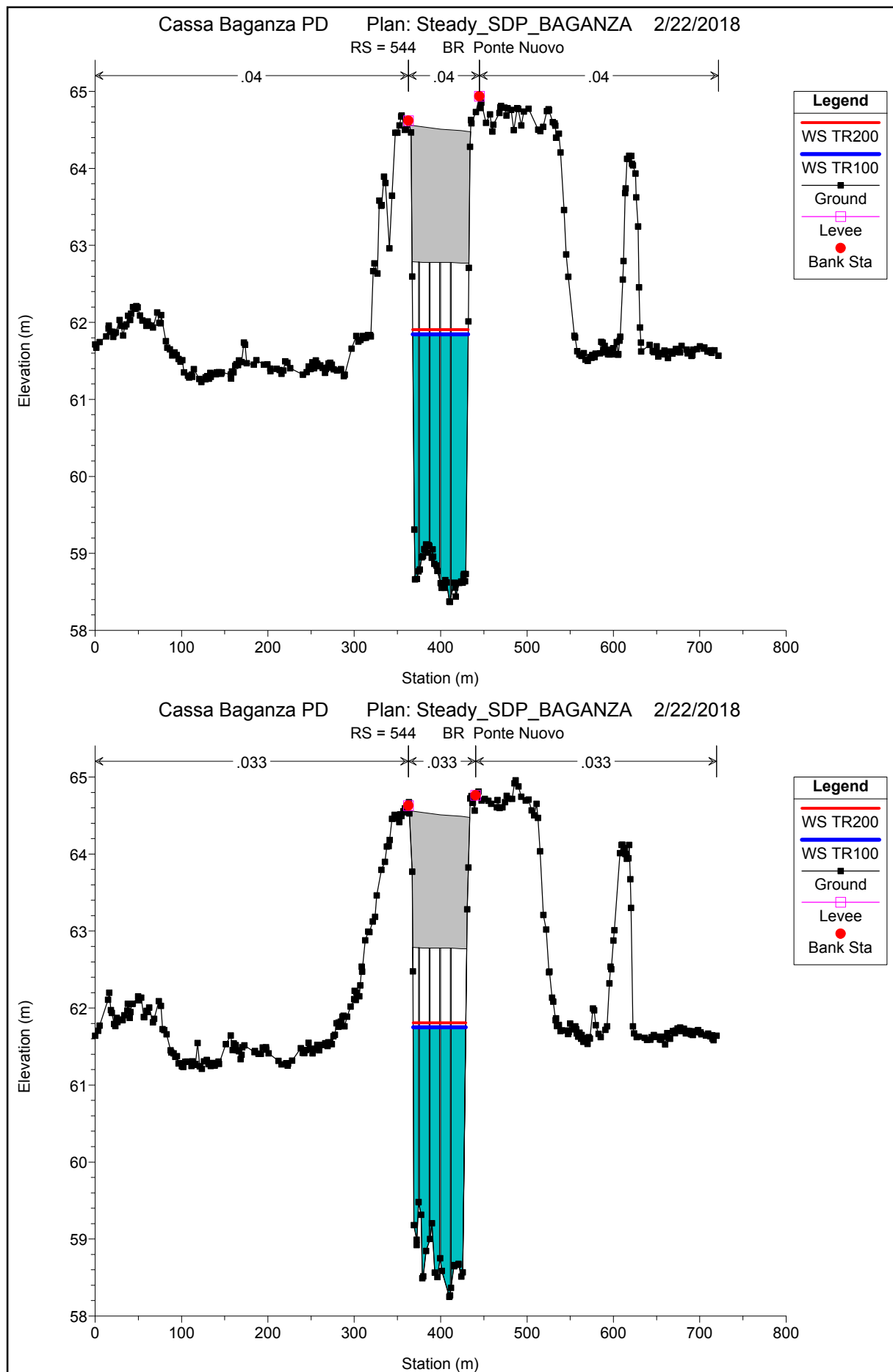


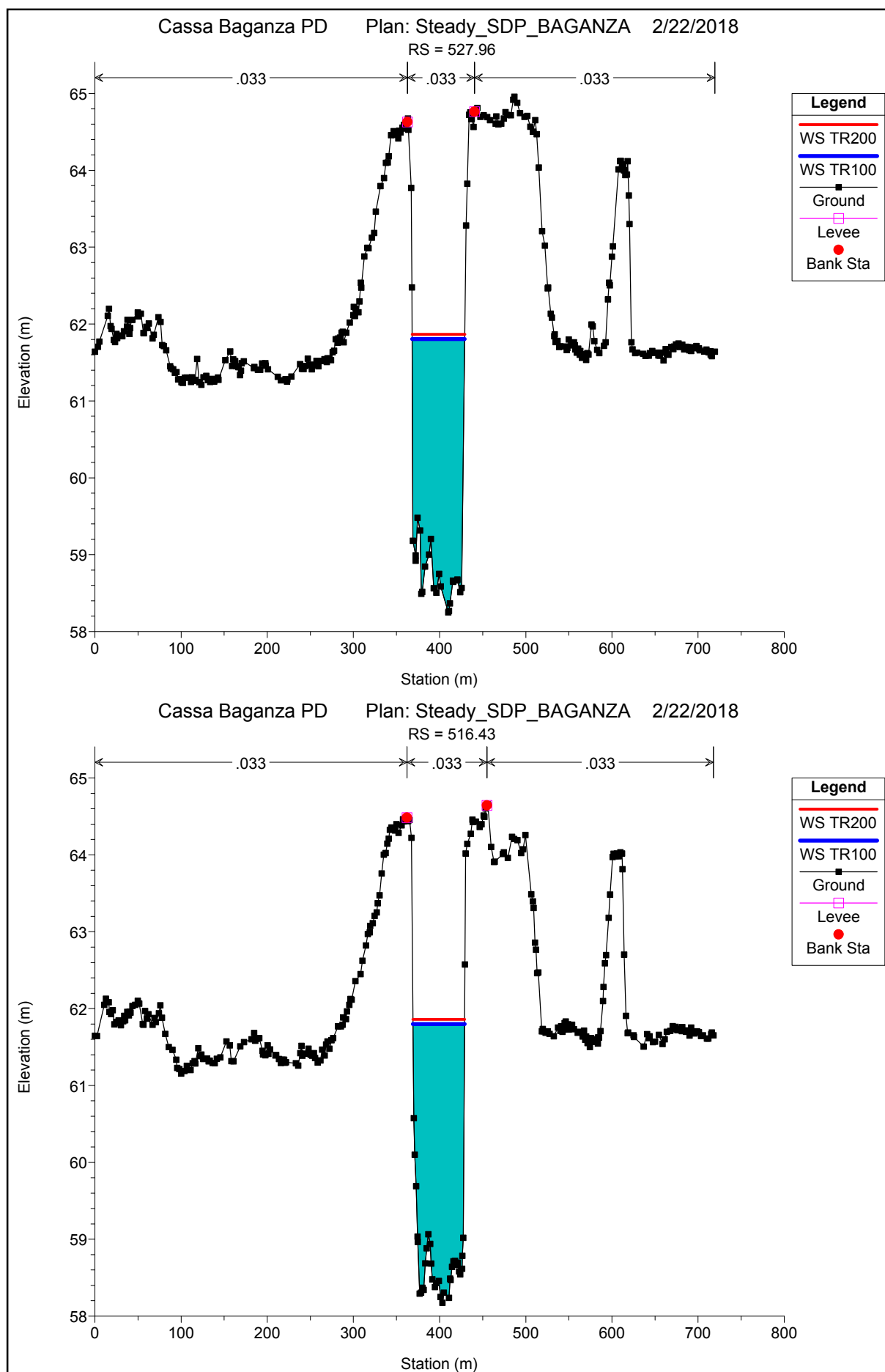


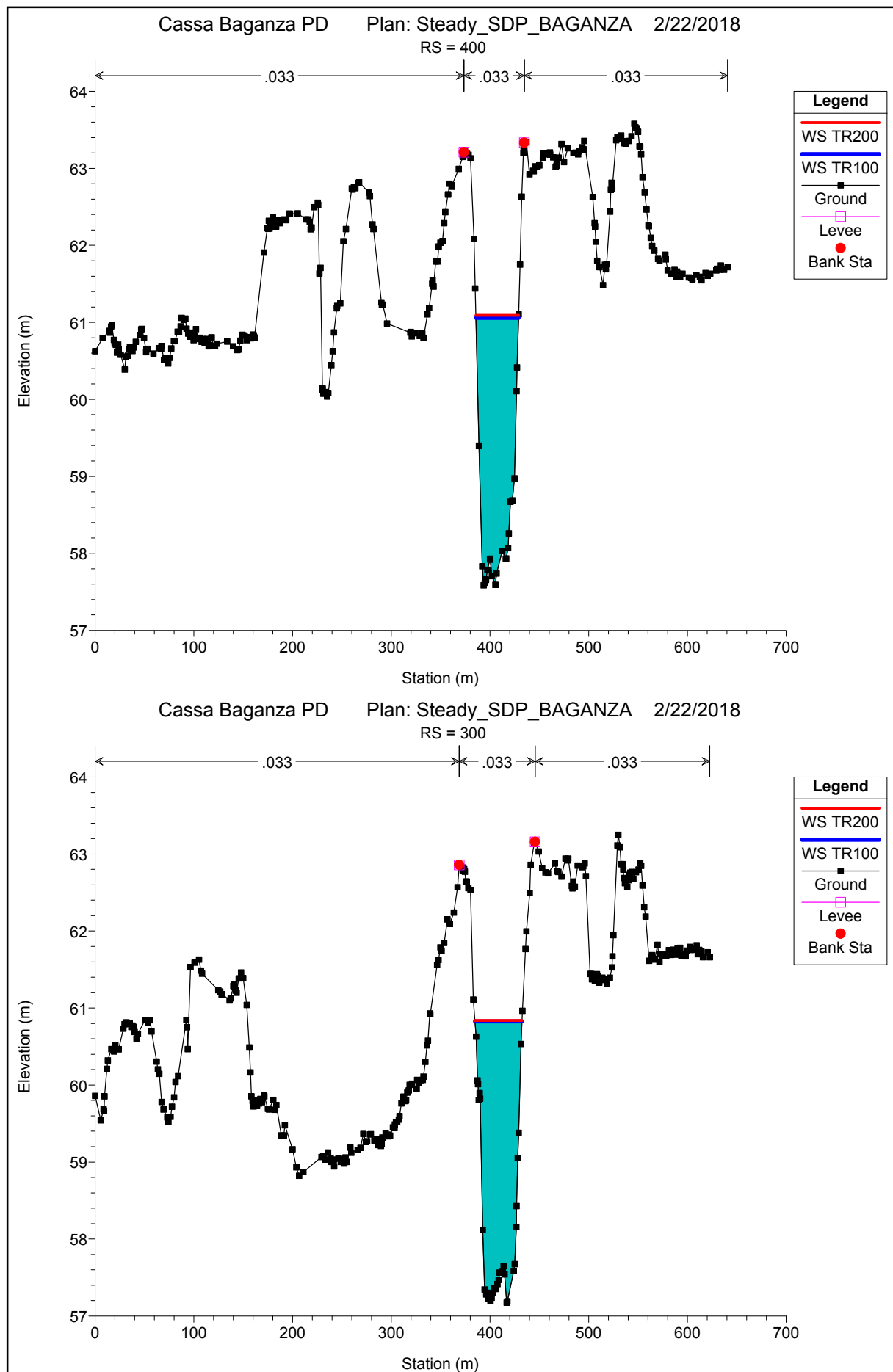


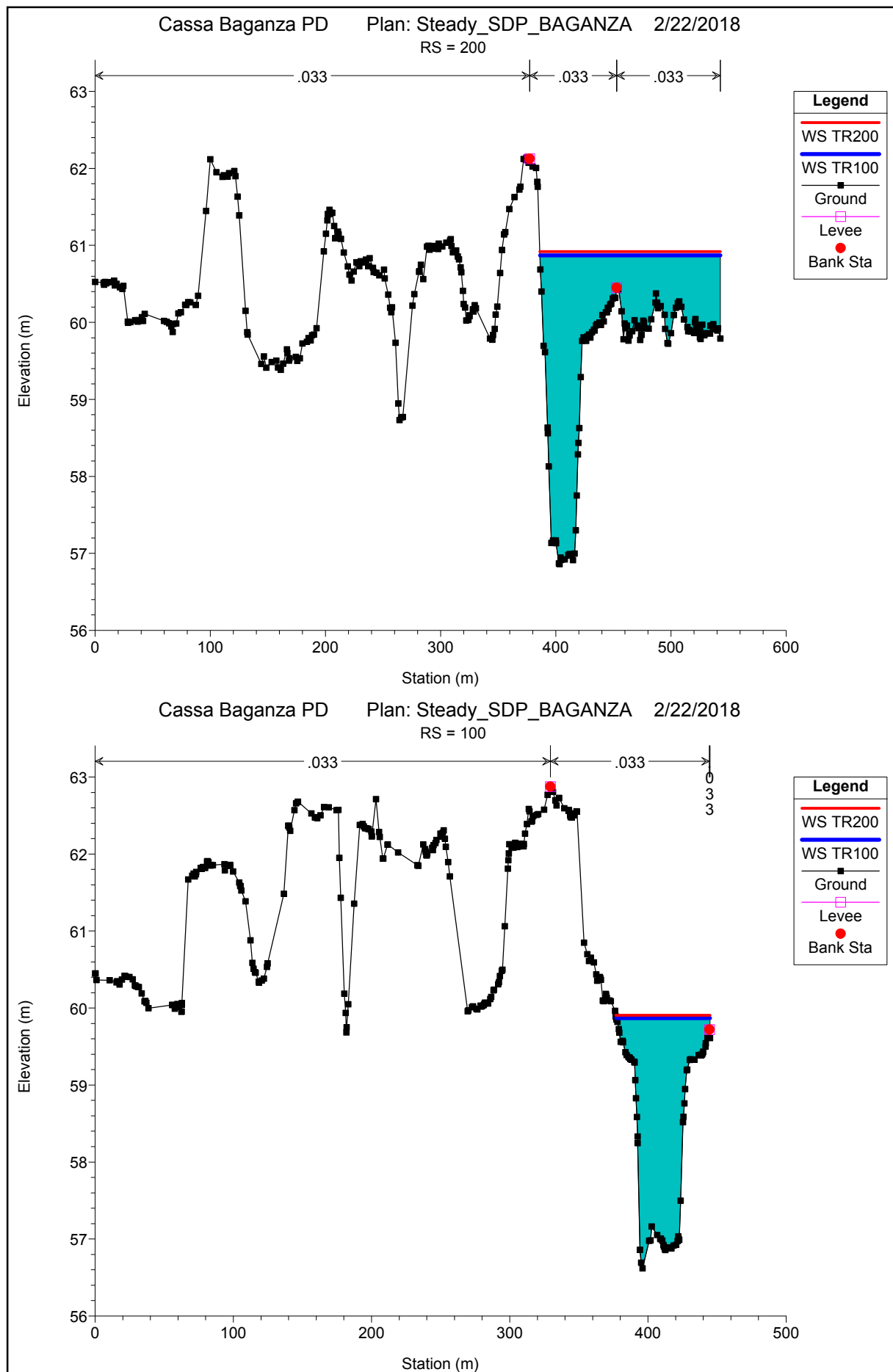






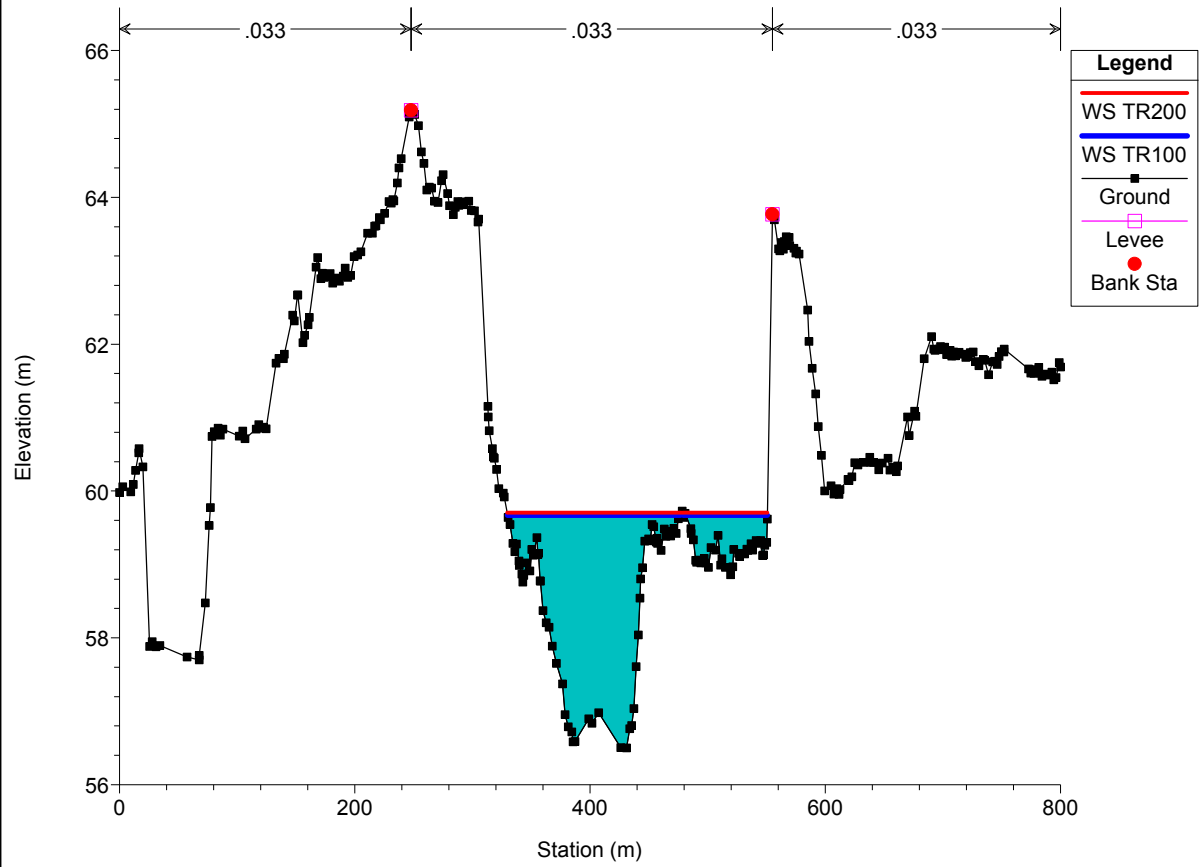






Cassa Baganza PD Plan: Steady\_SDP\_BAGANZA 2/22/2018

RS = 0



## APPENDICE 3

### PROFILI DI MOTO PERMANENTE – TORRENTE BAGANZA

#### STATO COMPARATIVO

Portate								
TR BAG	5	10	20	50	100	200	500	1000
Q <sub>max</sub> (mc/s) BAG SDF						835		
Q <sub>max</sub> (mc/s) BAG SDP						460		

HEC-RAS Locations: User Defined Profile: TR200

River	Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
BAganza	Baganza	9200	TR200	SDF	835.00	127.44	129.53	129.53	130.22	0.014227	3.67	227.47	165.81	1.00
BAganza	Baganza	9200	TR200	SDP	460.00	127.44	129.11	129.07	129.54	0.013949	2.90	158.71	162.62	0.94
BAganza	Baganza	9100	TR200	SDF	835.00	126.29	128.96	128.53	129.25	0.006501	2.37	352.03	274.56	0.67
BAganza	Baganza	9100	TR200	SDP	460.00	126.29	128.21	127.97	128.51	0.007841	2.46	187.35	159.69	0.72
BAganza	Baganza	9000	TR200	SDF	835.00	125.55	128.16	127.73	128.52	0.008216	2.65	315.11	247.88	0.75
BAganza	Baganza	9000	TR200	SDP	460.00	125.55	127.37	127.13	127.73	0.007937	2.64	174.28	134.16	0.74
BAganza	Baganza	8900	TR200	SDF	835.00	124.42	127.18	126.93	127.68	0.008535	3.13	266.62	167.67	0.79
BAganza	Baganza	8900	TR200	SDP	460.00	124.42	126.62	126.26	126.95	0.007483	2.56	179.41	137.96	0.72
BAganza	Baganza	8800	TR200	SDF	835.00	123.64	125.93	125.93	126.59	0.014512	3.58	233.56	179.95	1.00
BAganza	Baganza	8800	TR200	SDP	460.00	123.64	125.40	125.40	125.91	0.015762	3.16	145.56	143.58	1.00
BAganza	Baganza	8700	TR200	SDF	835.00	122.46	125.06	124.64	125.39	0.006066	2.55	328.08	218.88	0.66
BAganza	Baganza	8700	TR200	SDP	460.00	122.46	124.55	124.17	124.77	0.005509	2.06	223.30	190.30	0.61
BAganza	Baganza	8600	TR200	SDF	835.00	121.60	123.91	123.91	124.49	0.015010	3.37	247.70	213.43	1.00
BAganza	Baganza	8600	TR200	SDP	460.00	121.60	123.45	123.45	123.88	0.016713	2.89	158.93	186.49	1.00
BAganza	Baganza	8500	TR200	SDF	835.00	120.43	122.75	122.56	123.19	0.009632	2.95	283.07	213.37	0.82
BAganza	Baganza	8500	TR200	SDP	460.00	120.43	122.32	122.16	122.60	0.009742	2.37	193.81	204.32	0.78
BAganza	Baganza	8400	TR200	SDF	835.00	119.19	121.45	121.45	121.98	0.015576	3.24	257.33	241.17	1.00
BAganza	Baganza	8400	TR200	SDP	460.00	119.19	121.14	121.08	121.45	0.013718	2.50	184.14	232.35	0.90
BAganza	Baganza	8300	TR200	SDF	835.00	118.19	120.54	120.26	120.85	0.007025	2.44	342.57	270.90	0.69
BAganza	Baganza	8300	TR200	SDP	460.00	118.19	120.04	119.89	120.29	0.010084	2.19	210.27	256.59	0.77
BAganza	Baganza	8200	TR200	SDF	835.00	117.43	119.38	119.33	119.90	0.013328	3.20	260.92	222.56	0.94
BAganza	Baganza	8200	TR200	SDP	460.00	117.43	119.16	118.94	119.40	0.007893	2.17	212.07	218.89	0.70
BAganza	Baganza	8100	TR200	SDF	835.00	116.55	118.91	118.60	119.14	0.004865	2.27	423.90	411.83	0.59
BAganza	Baganza	8100	TR200	SDP	460.00	116.55	118.36	118.11	118.64	0.007299	2.33	197.43	172.78	0.70
BAganza	Baganza	8000	TR200	SDF	835.00	115.58	118.03	117.84	118.49	0.009291	2.98	279.84	201.71	0.81
BAganza	Baganza	8000	TR200	SDP	460.00	115.58	117.37	117.22	117.79	0.010083	2.86	160.60	130.72	0.82
BAganza	Baganza	7900	TR200	SDF	835.00	114.67	117.03	116.88	117.42	0.012379	2.77	301.40	302.38	0.89
BAganza	Baganza	7900	TR200	SDP	460.00	114.67	116.48	116.30	116.81	0.009427	2.56	179.70	165.50	0.78
BAganza	Baganza	7800	TR200	SDF	835.00	113.45	115.80	115.66	116.25	0.010971	3.00	278.17	225.92	0.86
BAganza	Baganza	7800	TR200	SDP	460.00	113.45	115.18	115.17	115.62	0.015616	2.94	156.33	170.43	0.98
BAganza	Baganza	7700	TR200	SDF	835.00	112.72	114.70	114.54	115.19	0.010301	3.11	268.40	196.69	0.85
BAganza	Baganza	7700	TR200	SDP	460.00	112.72	114.37	114.11	114.62	0.006921	2.23	206.21	184.74	0.67
BAganza	Baganza	7600	TR200	SDF	835.00	111.61	114.16	113.85	114.39	0.006347	2.16	387.32	342.99	0.65
BAganza	Baganza	7600	TR200	SDP	460.00	111.61	113.72	113.28	113.90	0.007594	1.89	242.83	298.64	0.67
BAganza	Baganza	7500	TR200	SDF	835.00	110.72	113.39	113.12	113.70	0.007525	2.50	334.54	269.60	0.72
BAganza	Baganza	7500	TR200	SDP	460.00	110.72	112.72	112.49	113.05	0.009635	2.56	180.01	168.37	0.79
BAganza	Baganza	7470	TR200	SDF	835.00	110.52	113.07	112.76	113.45	0.009383	2.76	302.60	247.85	0.80
BAganza	Baganza	7470	TR200	SDP	460.00	110.52	112.39	112.24	112.75	0.010352	2.67	172.59	160.19	0.82
BAganza	Baganza	7400	TR200	SDF	835.00	109.45	112.08	112.02	112.70	0.012322	3.50	238.46	167.61	0.94
BAganza	Baganza	7400	TR200	SDP	460.00	109.45	111.65	111.51	112.03	0.010191	2.72	169.42	151.27	0.82
BAganza	Baganza	7300	TR200	SDF	835.00	108.77	111.55	111.18	111.86	0.006168	2.48	337.19	237.21	0.66
BAganza	Baganza	7300	TR200	SDP	460.00	108.77	111.03	110.65	111.25	0.006087	2.08	221.16	200.11	0.63
BAganza	Baganza	7200	TR200	SDF	835.00	108.08	110.54	110.43	111.04	0.011518	3.11	268.25	214.08	0.89
BAganza	Baganza	7200	TR200	SDP	460.00	108.08	110.02	109.92	110.41	0.012508	2.75	166.99	170.32	0.89
BAganza	Baganza	7100	TR200	SDF	835.00	107.04	109.72	109.47	110.09	0.007846	2.70	309.19	228.53	0.74
BAganza	Baganza	7100	TR200	SDP	460.00	107.04	109.12	108.84	109.44	0.007810	2.50	184.08	152.19	0.73
BAganza	Baganza	7000	TR200	SDF	835.00	106.42	108.47	108.47	109.04	0.015066	3.32	251.20	222.01	1.00
BAganza	Baganza	7000	TR200	SDP	460.00	106.42	107.94	107.91	108.38	0.014900	2.96	155.32	161.83	0.97
BAganza	Baganza	6900	TR200	SDF	835.00	105.25	107.66	107.32	107.91	0.006373	2.23	374.12	315.45	0.65
BAganza	Baganza	6900	TR200	SDP	460.00	105.25	107.14	106.86	107.36	0.007509	2.05	224.85	244.23	0.68
BAganza	Baganza	6800	TR200	SDF	835.00	104.12	106.46	106.41	107.02	0.013243	3.31	252.61	203.99	0.95
BAganza	Baganza	6800	TR200	SDP	460.00	104.12	106.00	105.93	106.39	0.012966	2.76	166.89	174.17	0.90
BAganza	Baganza	6700	TR200	SDF	835.00	103.20	105.76	105.46	106.05	0.007410	2.40	348.20	294.87	0.70
BAganza	Baganza	6700	TR200	SDP	460.00	103.20	105.21	104.92	105.46	0.006989	2.20	209.17	193.02	0.67
BAganza	Baganza	6600	TR200	SDF	835.00	102.27	104.88	104.66	105.26	0.008449	2.72	307.08	237.55	0.76
BAganza	Baganza	6600	TR200	SDP	460.00	102.27	104.38	104.14	104.66	0.009090	2.37	194.00	194.75	0.76
BAganza	Baganza	6500	TR200	SDF	835.00	101.34	104.11	103.78	104.46	0.007592	2.63	317.39	237.83	0.73
BAganza	Baganza	6500	TR200	SDP	460.00	101.34	103.40	103.20	103.75	0.009221	2.61	176.38	154.85	0.78
BAganza	Baganza	6400	TR200	SDF	835.00	100.72	102.99	102.84	103.59	0.010104	3.42	244.01	152.48	0.86
BAganza	Baganza	6400	TR200	SDP	460.00	100.72	102.61	102.35	102.92	0.007462	2.47	185.89	150.64	0.71
BAganza	Baganza	6300	TR200	SDF	835.00	99.89	102.45	102.02	102.78	0.006666	2.55	327.76	233.67	0.69
BAganza	Baganza	6300	TR200	SDP	460.00	99.89	101.71	101.57	102.04	0.010557	2.55	180.09	180.50	0.82
BAganza	Baganza	6200	TR200	SDF	835.00	99.19	101.18	101.18	101.82	0.014718	3.56	234.76	183.65	1.00
BAganza	Baganza	6200	TR200	SDP	460.00	99.19	101.14	100.72	101.35	0.004866	2.02	227.99	182.02	0.58
BAganza	Baganza	6100	TR200	SDF	835.00	98.29	100.85	100.68	100.95	0.002329	1.44	599.73	481.05	0.40
BAganza	Baganza	6100	TR200	SDP	460.00	98.29	100.32	100.16	100.68	0.009954	2.65	173.66	157.74	0.81

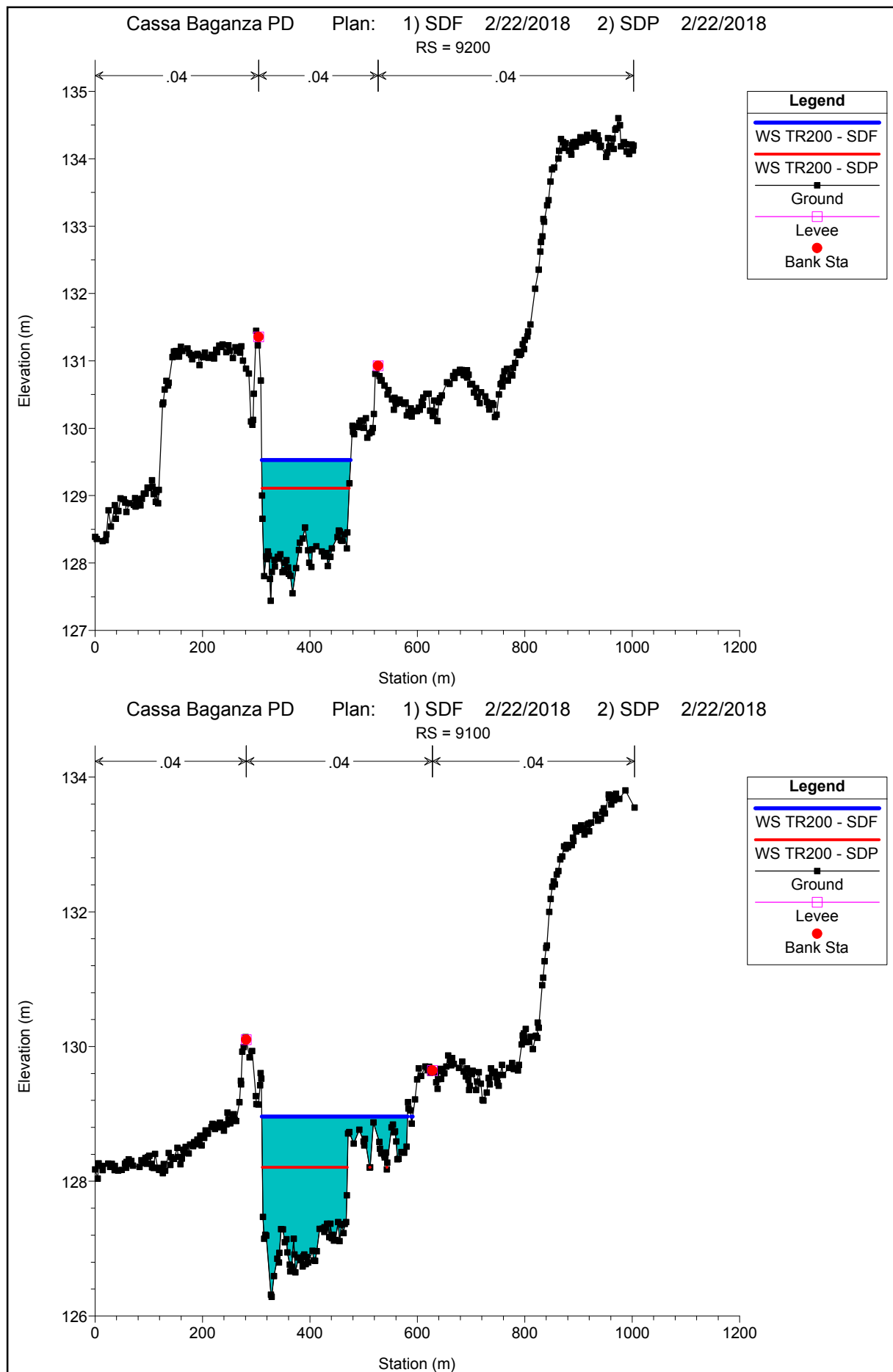


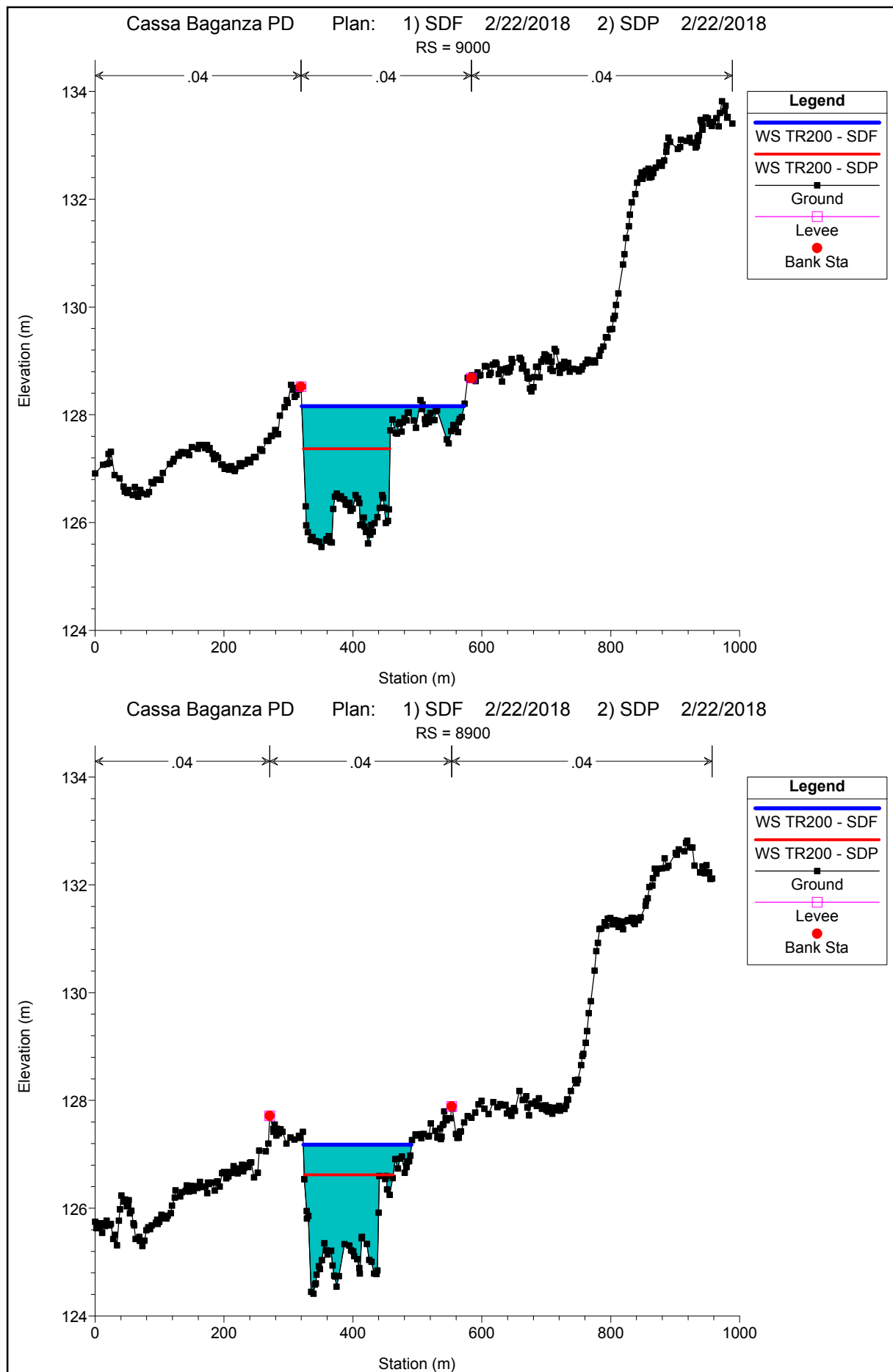
HEC-RAS Locations: User Defined Profile: TR200 (Continued)

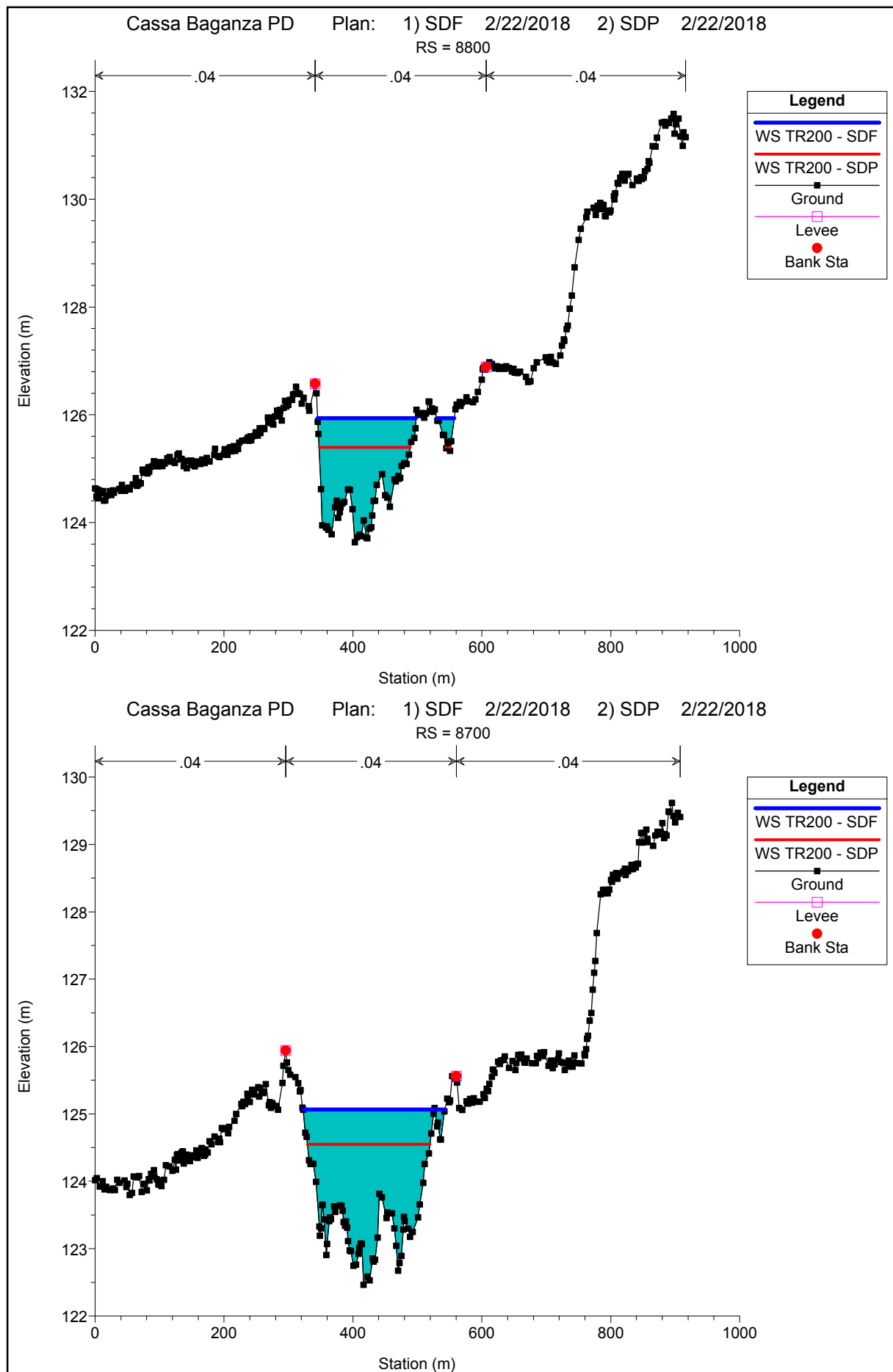
River	Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
BAganza	Baganza	6000	TR200	SDF	835.00	97.52	100.23	99.73	100.59	0.006213	2.66	313.50	198.57	0.68
BAganza	Baganza	6000	TR200	SDP	460.00	97.52	99.49	99.21	99.80	0.007715	2.49	184.66	152.13	0.72
BAganza	Baganza	5900	TR200	SDF	835.00	96.59	99.08	98.95	99.79	0.010700	3.74	223.39	127.35	0.90
BAganza	Baganza	5900	TR200	SDP	460.00	96.59	98.63	98.37	99.01	0.008117	2.75	167.31	122.97	0.75
BAganza	Baganza	5800	TR200	SDF	835.00	95.85	97.89	97.89	98.55	0.014520	3.59	232.78	177.71	1.00
BAganza	Baganza	5800	TR200	SDP	460.00	95.85	97.43	97.43	97.89	0.016492	2.99	153.62	169.47	1.00
BAganza	Baganza	5700	TR200	SDF	835.00	94.98	97.40	96.78	97.68	0.003908	2.34	356.49	193.44	0.55
BAganza	Baganza	5700	TR200	SDP	460.00	94.98	96.65	96.36	96.89	0.006222	2.14	214.48	188.51	0.64
BAganza	Baganza	5600	TR200	SDF	835.00	93.67	96.93	96.15	97.28	0.004151	2.61	319.42	153.14	0.58
BAganza	Baganza	5600	TR200	SDP	460.00	93.67	96.14	95.61	96.38	0.004234	2.19	210.18	133.61	0.56
BAganza	Baganza	5500	TR200	SDF	835.00	93.36	95.71	95.71	96.60	0.013031	4.19	199.41	111.40	1.00
BAganza	Baganza	5500	TR200	SDP	460.00	93.36	95.01	95.01	95.67	0.014520	3.59	128.24	98.18	1.00
BAganza	Baganza	5400	TR200	SDF	835.00	92.16	94.74	94.37	95.25	0.006851	3.15	264.77	139.10	0.73
BAganza	Baganza	5400	TR200	SDP	460.00	92.16	94.13	93.85	94.46	0.007232	2.54	180.80	136.85	0.71
BAganza	Baganza	5300	TR200	SDF	835.00	91.31	93.55	93.55	94.31	0.013712	3.86	216.11	141.69	1.00
BAganza	Baganza	5300	TR200	SDP	460.00	91.31	93.14	93.03	93.57	0.011377	2.90	158.85	139.70	0.87
BAganza	Baganza	5200	TR200	SDF	835.00	90.20	92.76	92.52	93.15	0.008065	2.75	304.15	223.93	0.75
BAganza	Baganza	5200	TR200	SDP	460.00	90.20	92.21	92.04	92.52	0.009638	2.47	185.97	183.02	0.78
BAganza	Baganza	5100	TR200	SDF	835.00	89.54	91.95	91.63	92.39	0.007125	2.93	285.31	173.77	0.73
BAganza	Baganza	5100	TR200	SDP	460.00	89.54	91.48	91.18	91.74	0.006479	2.26	203.78	170.76	0.66
BAganza	Baganza	5000	TR200	SDF	835.00	88.57	91.21	90.92	91.63	0.008122	2.87	290.46	200.60	0.76
BAganza	Baganza	5000	TR200	SDP	460.00	88.57	90.52	90.41	90.91	0.011090	2.74	167.71	157.07	0.85
BAganza	Baganza	4900	TR200	SDF	835.00	87.44	90.43	89.96	90.86	0.007295	2.92	286.31	178.28	0.73
BAganza	Baganza	4900	TR200	SDP	460.00	87.44	89.77	89.45	90.07	0.006513	2.44	188.67	141.20	0.67
BAganza	Baganza	4800	TR200	SDF	835.00	86.83	89.71	89.33	90.14	0.007136	2.90	287.80	178.01	0.73
BAganza	Baganza	4800	TR200	SDP	460.00	86.83	89.11	88.75	89.41	0.006705	2.41	191.06	149.16	0.68
BAganza	Baganza	4700	TR200	SDF	835.00	86.29	88.43	88.43	89.17	0.013805	3.83	218.24	146.23	1.00
BAganza	Baganza	4700	TR200	SDP	460.00	86.29	87.92	87.92	88.43	0.015641	3.17	144.93	141.26	1.00
BAganza	Baganza	4600	TR200	SDF	835.00	84.86	87.93	87.31	88.25	0.004534	2.49	335.12	184.10	0.59
BAganza	Baganza	4600	TR200	SDP	460.00	84.86	87.25	86.83	87.48	0.004924	2.11	218.05	163.83	0.58
BAganza	Baganza	4500	TR200	SDF	835.00	84.09	87.29	86.80	87.73	0.005936	2.94	283.75	148.34	0.68
BAganza	Baganza	4500	TR200	SDP	460.00	84.09	86.50	86.26	86.86	0.007964	2.64	174.16	133.70	0.74
BAganza	Baganza	4400	TR200	SDF	835.00	83.34	86.35	86.10	86.94	0.010937	3.40	245.90	165.03	0.89
BAganza	Baganza	4400	TR200	SDP	460.00	83.34	85.58	85.34	86.04	0.008362	3.01	153.07	100.78	0.78
BAganza	Baganza	4300	TR200	SDF	835.00	82.70	85.81	85.22	86.24	0.004927	2.90	287.55	134.00	0.63
BAganza	Baganza	4300	TR200	SDP	460.00	82.70	85.09	84.68	85.38	0.005371	2.38	193.51	130.14	0.62
BAganza	Baganza	4200	TR200	SDF	835.00	81.99	85.42	84.68	85.80	0.003917	2.71	307.91	133.82	0.57
BAganza	Baganza	4200	TR200	SDP	460.00	81.99	84.62	84.13	84.88	0.004628	2.28	202.04	129.63	0.58
BAganza	Baganza	4100	TR200	SDF	835.00	81.33	84.66	84.22	85.30	0.006671	3.53	236.30	102.70	0.74
BAganza	Baganza	4100	TR200	SDP	460.00	81.33	83.85	83.56	84.30	0.007662	2.96	155.24	97.71	0.75
BAganza	Baganza	4000	TR200	SDF	835.00	80.46	83.39	83.39	84.40	0.012633	4.46	187.20	92.30	1.00
BAganza	Baganza	4000	TR200	SDP	460.00	80.46	82.84	82.70	83.41	0.010356	3.35	137.48	90.12	0.86
BAganza	Baganza	3900	TR200	SDF	835.00	79.74	83.10	82.53	83.58	0.005278	3.08	270.79	120.41	0.66
BAganza	Baganza	3900	TR200	SDP	460.00	79.74	82.42	81.95	82.71	0.005018	2.42	189.83	117.03	0.61
BAganza	Baganza	3800	TR200	SDF	835.00	79.08	81.90	81.90	82.79	0.013311	4.18	199.56	112.99	1.01
BAganza	Baganza	3800	TR200	SDP	460.00	79.08	81.31	81.31	81.91	0.014928	3.45	133.52	110.53	1.00
BAganza	Baganza	3700	TR200	SDF	835.00	78.34	81.36	80.75	81.82	0.004955	3.03	275.71	120.98	0.64
BAganza	Baganza	3700	TR200	SDP	460.00	78.34	80.56	80.17	80.89	0.005778	2.53	181.50	117.13	0.65
BAganza	Baganza	3600	TR200	SDF	835.00	77.35	80.96	80.15	81.39	0.003919	2.90	288.12	112.71	0.58
BAganza	Baganza	3600	TR200	SDP	460.00	77.35	80.12	79.54	80.40	0.004214	2.36	194.69	109.65	0.57
BAganza	Baganza	3500	TR200	SDF	835.00	76.74	80.24	79.77	80.89	0.006363	3.57	234.01	96.20	0.73
BAganza	Baganza	3500	TR200	SDP	460.00	76.74	79.41	79.09	79.86	0.007223	2.96	155.19	93.03	0.73
BAganza	Baganza	3400	TR200	SDF	835.00	75.96	79.77	79.07	80.34	0.004817	3.35	249.26	91.90	0.65
BAganza	Baganza	3400	TR200	SDP	460.00	75.96	78.82	78.32	79.22	0.005636	2.81	163.60	88.73	0.66
BAganza	Baganza	3300	TR200	SDF	835.00	75.21	79.06	78.50	79.80	0.006025	3.81	219.06	77.91	0.73
BAganza	Baganza	3300	TR200	SDP	460.00	75.21	78.10	77.71	78.61	0.006729	3.16	145.37	74.71	0.72
BAganza	Baganza	3200	TR200	SDF	835.00	74.84	78.41	77.83	79.20	0.006064	3.93	212.61	72.63	0.73
BAganza	Baganza	3200	TR200	SDP	460.00	74.84	77.52	76.98	78.00	0.005503	3.08	149.35	68.63	0.67
BAganza	Baganza	3100	TR200	SDF	835.00	73.79	78.04	77.22	78.64	0.005099	3.45	242.36	88.60	0.66
BAganza	Baganza	3100	TR200	SDP	460.00	73.79	77.19	76.37	77.55	0.003807	2.66	173.17	75.28	0.56
BAganza	Baganza	3000	TR200	SDF	835.00	73.39	77.21	77.00	77.97	0.009430	3.85	217.02	107.59	0.86
BAganza	Baganza	3000	TR200	SDP	460.00	73.39	76.38	76.08	76.96	0.010229	3.38	136.20	87.30	0.86
BAganza	Baganza	2900	TR200	SDF	835.00	72.81	75.87	75.87	76.88	0.012649	4.45	187.59	92.85	1.00
BAganza	Baganza	2900	TR200	SDP	460.00	72.81	75.14	75.09	75.83	0.012493	3.69	124.81	81.36	0.95
BAganza	Baganza	2800	TR200	SDF	835.00	72.41	75.81	74.88	76.15	0.003497	2.59	322.14	137.50	0.54
BAganza	Baganza	2800	TR200	SDP	460.00	72.41	74.70	74.22	75.02	0.005669	2.51	182.99	117.55	0.64

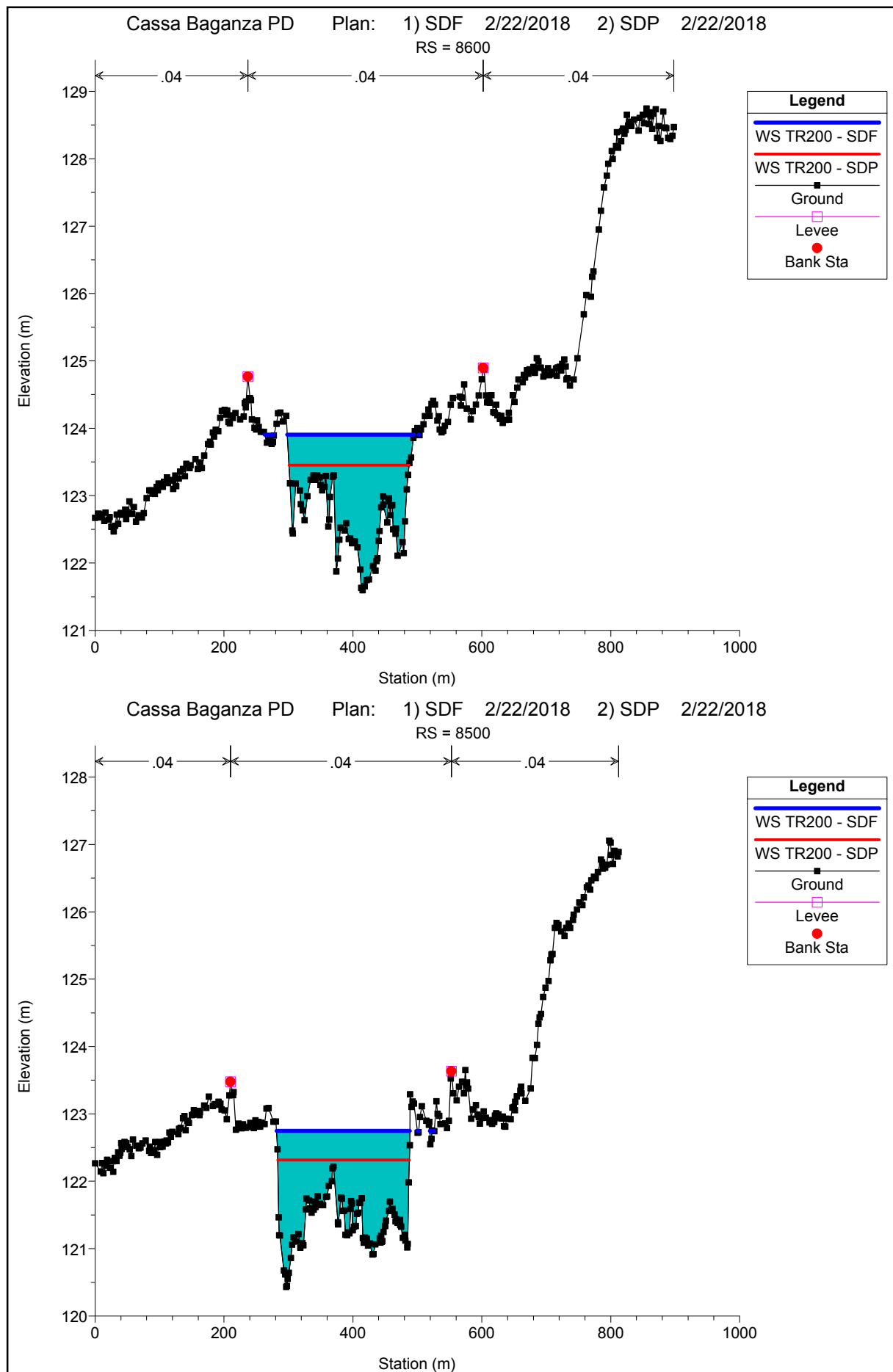
HEC-RAS Locations: User Defined Profile: TR200 (Continued)

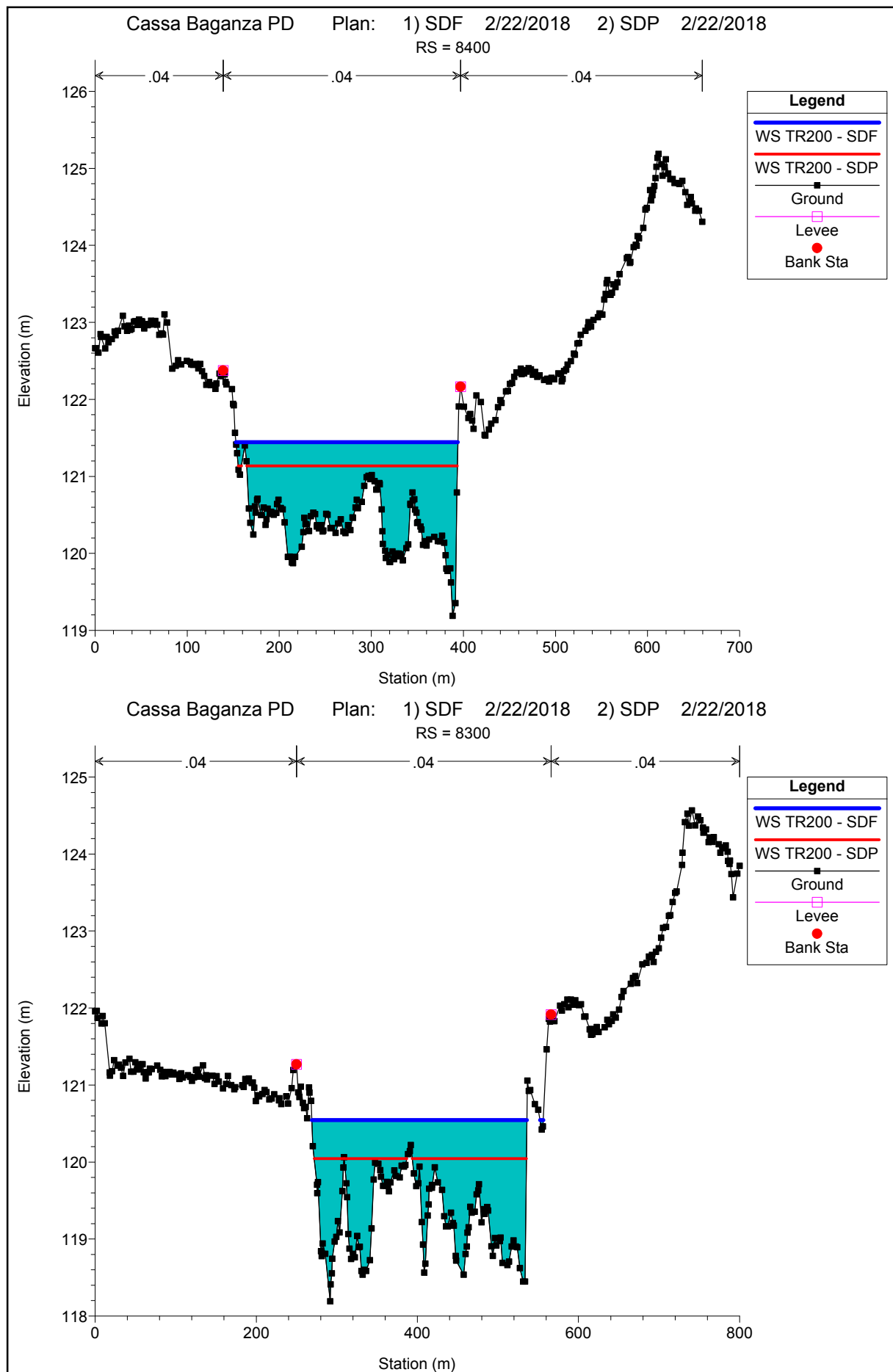
River	Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
BAganza	Baganza	2700	TR200	SDF	835.00	71.19	75.41	74.35	75.77	0.004157	2.68	312.08	144.55	0.58
BAganza	Baganza	2700	TR200	SDP	460.00	71.19	73.97	73.53	74.43	0.006206	3.01	152.83	80.04	0.70
BAganza	Baganza	2597.84	TR200	SDF	835.00	70.83	75.33	73.35	75.55	0.001335	2.10	398.46	113.18	0.36
BAganza	Baganza	2597.84	TR200	SDP	460.00	70.83	73.98	72.68	74.14	0.001585	1.81	253.91	102.28	0.37
BAganza	Baganza	2569.29	TR200	SDF	835.00	70.37	75.30	73.11	75.51	0.001189	2.03	411.95	112.84	0.34
BAganza	Baganza	2569.29	TR200	SDP	460.00	70.37	73.95	72.41	74.10	0.001267	1.72	267.94	98.95	0.33
BAganza	Baganza	2500	TR200	SDF	835.00	69.70	75.12	73.08	75.40	0.002164	2.37	351.89	117.46	0.44
BAganza	Baganza	2500	TR200	SDP	460.00	69.70	73.73	72.17	73.98	0.002565	2.23	206.62	85.84	0.46
BAganza	Baganza	2430.01	TR200	SDF	835.00	69.01	74.92	73.13	75.25	0.002211	2.54	328.14	99.64	0.45
BAganza	Baganza	2430.01	TR200	SDP	460.00	69.01	73.51	71.86	73.79	0.002934	2.37	194.29	81.38	0.49
BAganza	Baganza	2300	TR200	SDF	835.00	68.18	74.13	73.52	74.81	0.005983	3.64	229.31	85.46	0.71
BAganza	Baganza	2300	TR200	SDP	460.00	68.18	72.20	71.79	73.20	0.008039	4.43	103.77	35.11	0.82
BAganza	Baganza	2200	TR200	SDF	835.00	67.17	72.27	72.27	74.00	0.011327	5.83	143.32	41.41	1.00
BAganza	Baganza	2200	TR200	SDP	460.00	67.17	70.93	70.93	72.21	0.012384	5.01	91.74	35.76	1.00
BAganza	Baganza	2100	TR200	SDF	835.00	66.90	70.79	70.23	71.50	0.006692	3.72	224.67	89.56	0.75
BAganza	Baganza	2100	TR200	SDP	460.00	66.90	70.71	69.37	70.94	0.002267	2.12	216.88	89.06	0.43
BAganza	Baganza	2000	TR200	SDF	835.00	66.29	71.37	70.98	71.40	0.000389	0.67	1067.87	536.96	0.17
BAganza	Baganza	2000	TR200	SDP	460.00	66.29	69.46	69.30	70.52	0.010019	4.56	100.89	39.63	0.91
BAganza	Baganza	1900	TR200	SDF	835.00	65.61	70.61	69.61	71.31	0.004466	3.71	224.96	66.01	0.64
BAganza	Baganza	1900	TR200	SDP	460.00	65.61	69.37	68.57	69.86	0.004633	3.10	148.60	59.18	0.62
BAganza	Baganza	1800	TR200	SDF	835.00	65.32	69.14	69.14	70.63	0.011392	5.42	154.09	51.56	1.00
BAganza	Baganza	1800	TR200	SDP	460.00	65.32	68.83	68.04	69.39	0.004775	3.32	138.35	50.28	0.64
BAganza	Baganza	1700	TR200	SDF	835.00	64.30	69.57	68.67	69.62	0.000750	0.83	868.63	524.29	0.23
BAganza	Baganza	1700	TR200	SDP	460.00	64.30	68.35	67.53	68.91	0.004856	3.32	138.52	50.56	0.64
BAganza	Baganza	1600	TR200	SDF	835.00	63.93	68.51	68.51	69.42	0.013191	4.24	196.88	107.54	1.00
BAganza	Baganza	1600	TR200	SDP	460.00	63.93	67.79	66.94	68.37	0.006134	3.37	136.56	58.62	0.70
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BAganza	Baganza	1400	TR200	SDP	460.00	62.85	66.11	65.75	67.02	0.008165	4.24	108.42	39.72	0.82
BAganza	Baganza	1300	TR200	SDF	835.00	62.52	66.55	66.17	67.78	0.008043	4.93	169.35	49.16	0.85
BAganza	Baganza	1300	TR200	SDP	460.00	62.52	65.62	65.08	66.31	0.006226	3.68	125.05	47.04	0.72
BAganza	Baganza	1200	TR200	SDF	835.00	62.05	65.72	65.56	66.90	0.009701	4.81	173.53	61.86	0.92
BAganza	Baganza	1200	TR200	SDP	460.00	62.05	65.09	64.62	65.68	0.006454	3.41	134.85	59.64	0.72
BAganza	Baganza	1100	TR200	SDF	835.00	61.40	65.39	64.91	66.05	0.007509	3.61	231.57	105.83	0.78
BAganza	Baganza	1100	TR200	SDP	460.00	61.40	64.55	64.20	65.01	0.006965	2.99	153.59	87.78	0.72
BAganza	Baganza	1000	TR200	SDF	835.00	61.14	65.02	64.22	65.50	0.004212	3.08	271.03	101.71	0.60
BAganza	Baganza	1000	TR200	SDP	460.00	61.14	63.64	63.40	64.22	0.009016	3.36	136.77	79.96	0.82
BAganza	Baganza	900	TR200	SDF	835.00	60.26	64.67	63.30	65.16	0.002876	3.10	269.35	74.41	0.52
BAganza	Baganza	900	TR200	SDP	460.00	60.26	63.32	62.47	63.68	0.003556	2.68	171.96	70.13	0.55
BAganza	Baganza	800	TR200	SDF	835.00	59.57	64.20	62.96	64.84	0.003567	3.54	235.68	61.85	0.58
BAganza	Baganza	800	TR200	SDP	460.00	59.57	62.86	62.02	63.31	0.003974	2.96	155.40	58.63	0.58
BAganza	Baganza	700	TR200	SDF	835.00	59.23	63.43	62.69	64.39	0.005753	4.33	192.64	53.03	0.73
BAganza	Baganza	700	TR200	SDP	460.00	59.23	62.07	61.65	62.79	0.007054	3.75	122.67	49.76	0.76
BAganza	Baganza	555.65	TR200	SDF	835.00	58.52	63.51	61.53	63.93	0.002006	2.87	290.85	66.17	0.44
BAganza	Baganza	555.65	TR200	SDP	460.00	58.52	61.96	60.65	62.26	0.002255	2.41	191.07	62.94	0.44
BAganza	Baganza	544.11	TR200	SDF	835.00	58.37	63.52	61.42	63.91	0.001790	2.76	302.23	66.99	0.42
BAganza	Baganza	544.11	TR200	SDP	460.00	58.37	61.96	60.55	62.23	0.001994	2.30	199.90	64.40	0.42
BAganza	Baganza	544			Bridge									
BAganza	Baganza	527.96	TR200	SDF	835.00	58.25	63.30	61.50	63.77	0.001587	3.04	274.44	63.48	0.47
BAganza	Baganza	527.96	TR200	SDP	460.00	58.25	61.87	60.80	62.18	0.001659	2.48	185.18	61.22	0.46
BAganza	Baganza	516.43	TR200	SDF	835.00	58.17	63.29	61.40	63.75	0.001496	3.03	275.63	61.78	0.46
BAganza	Baganza	516.43	TR200	SDP	460.00	58.17	61.86	60.49	62.16	0.001494	2.44	188.85	60.02	0.44
BAganza	Baganza	400	TR200	SDF	835.00	57.59	62.14	61.79	63.45	0.005596	5.06	164.95	47.47	0.87
BAganza	Baganza	400	TR200	SDP	460.00	57.59	61.09	60.60	61.88	0.004685	3.93	117.11	43.51	0.76
BAganza	Baganza	300	TR200	SDF	835.00	57.18	61.30	61.30	62.80	0.007732	5.42	154.19	51.51	1.00
BAganza	Baganza	300	TR200	SDP	460.00	57.18	60.84	60.10	61.47	0.003650	3.51	131.04	47.78	0.68
BAganza	Baganza	200	TR200	SDF	835.00	56.86	61.89	61.03	62.16	0.001642	2.50	378.22	159.51	0.46
BAganza	Baganza	200	TR200	SDP	460.00	56.86	60.92	60.54	61.17	0.002459	2.43	224.07	156.83	0.54
BAganza	Baganza	100	TR200	SDF	835.00	56.62	60.82	60.82	61.84	0.008564	4.49	186.25	90.66	1.00
BAganza	Baganza	100	TR200	SDP	460.00	56.62	59.91	59.91	60.74	0.009221	4.05	113.70	68.27	1.00
BAganza	Baganza	0	TR200	SDF	835.00	56.50	60.28	59.51	60.49	0.002002	2.00	416.83	230.77	0.48
BAganza	Baganza	0	TR200	SDP	460.00	56.50	59.70	58.52	59.84	0.002001	1.61	285.98	220.14	0.45

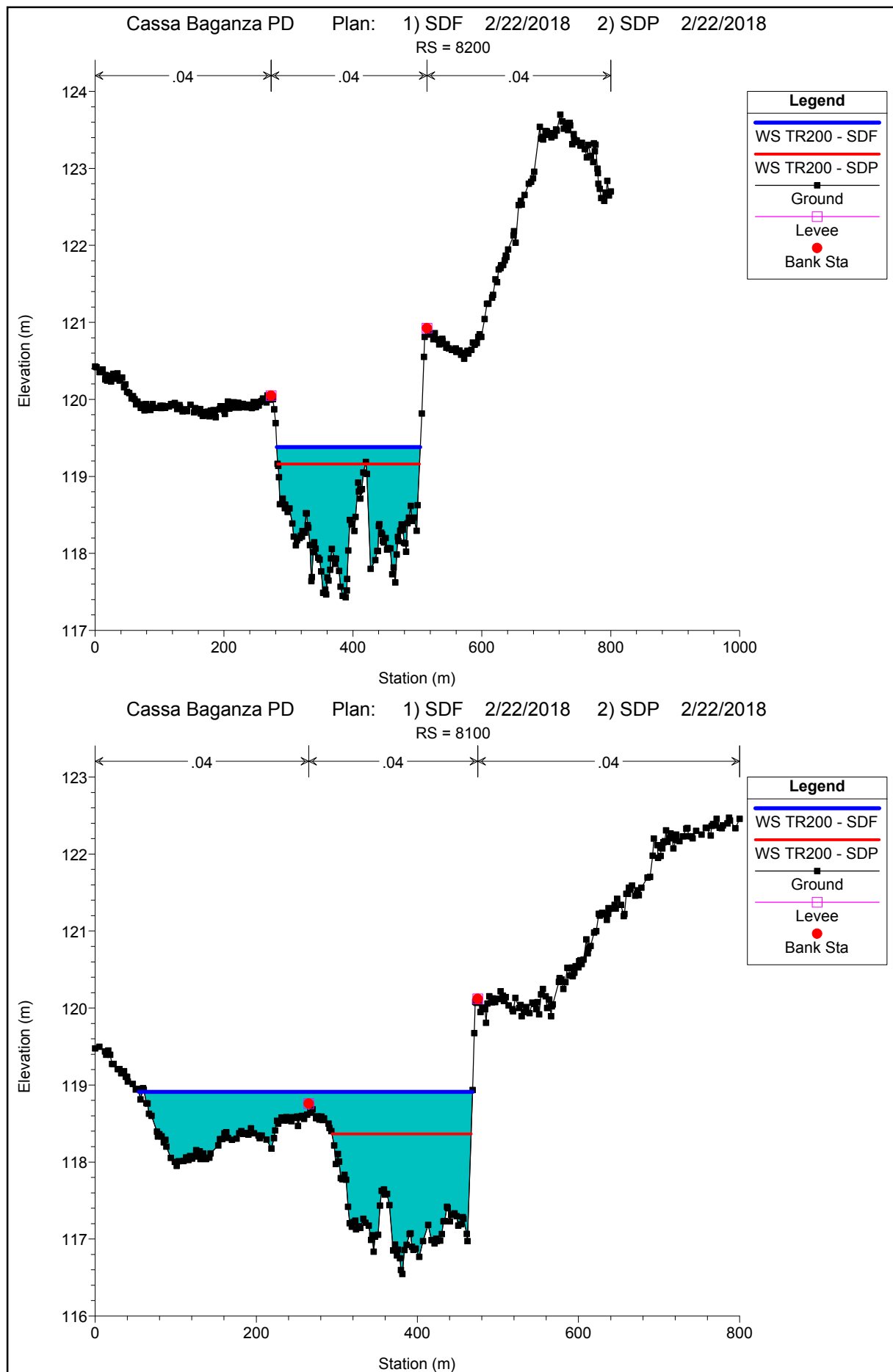




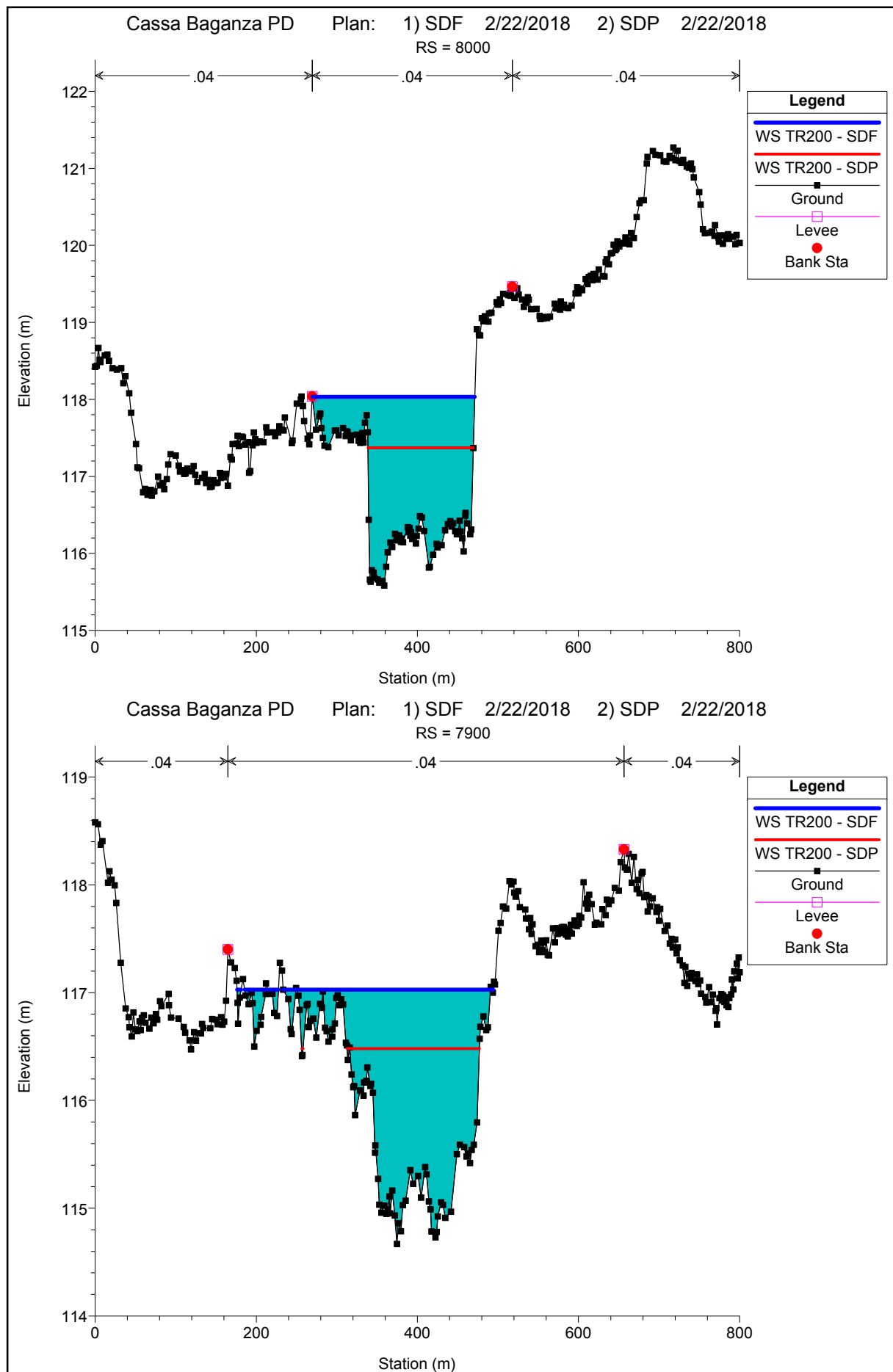


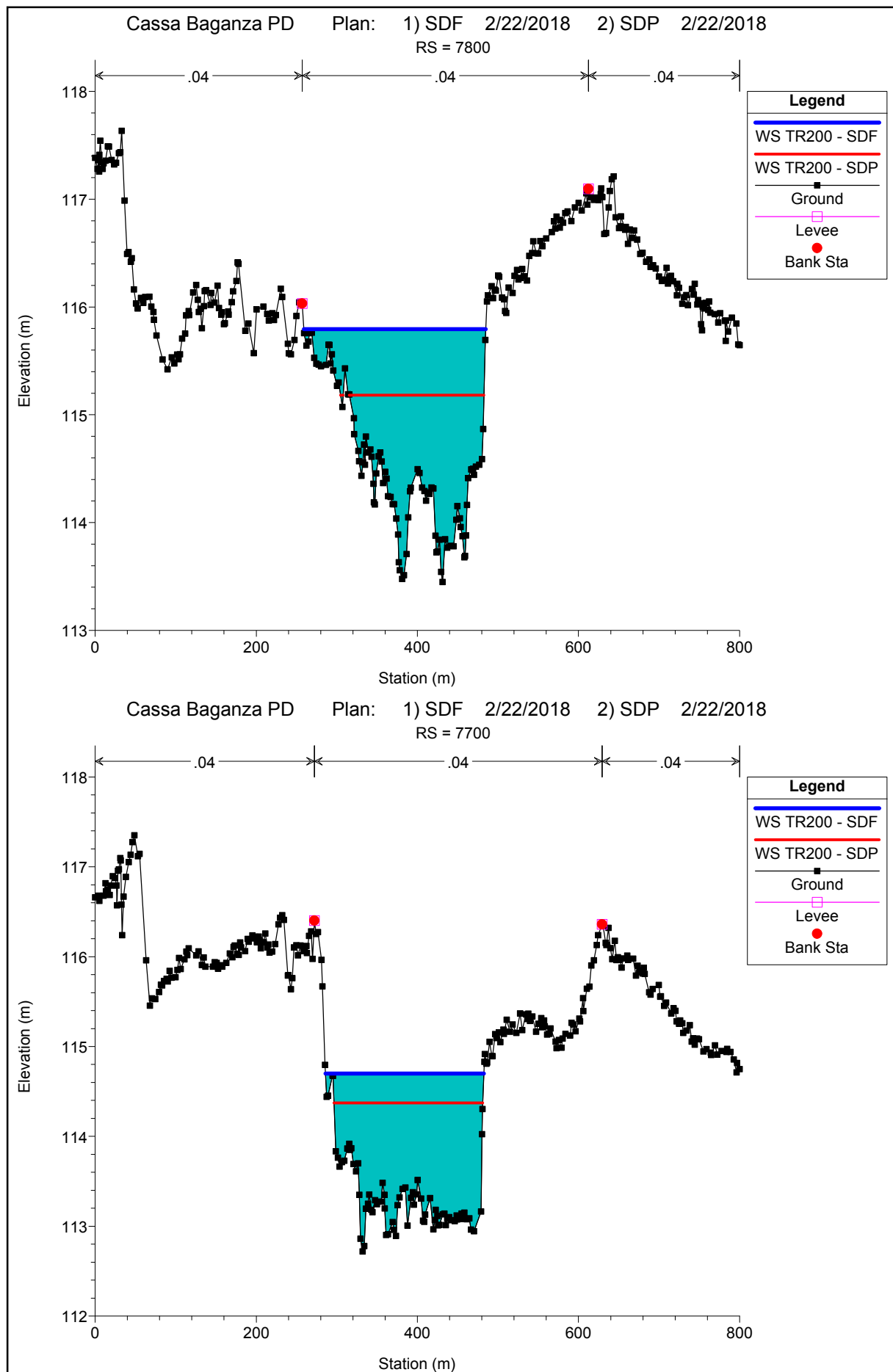


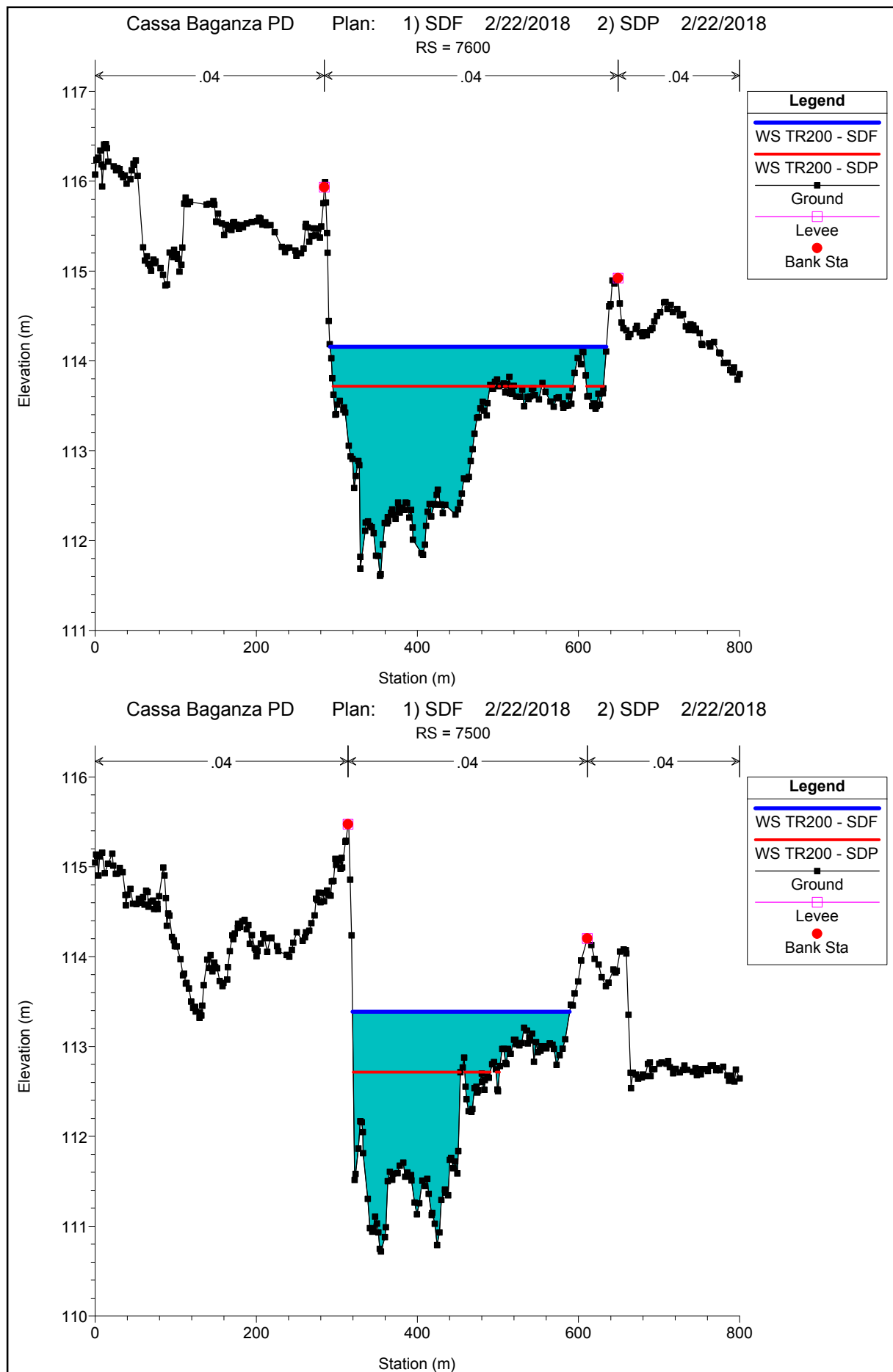


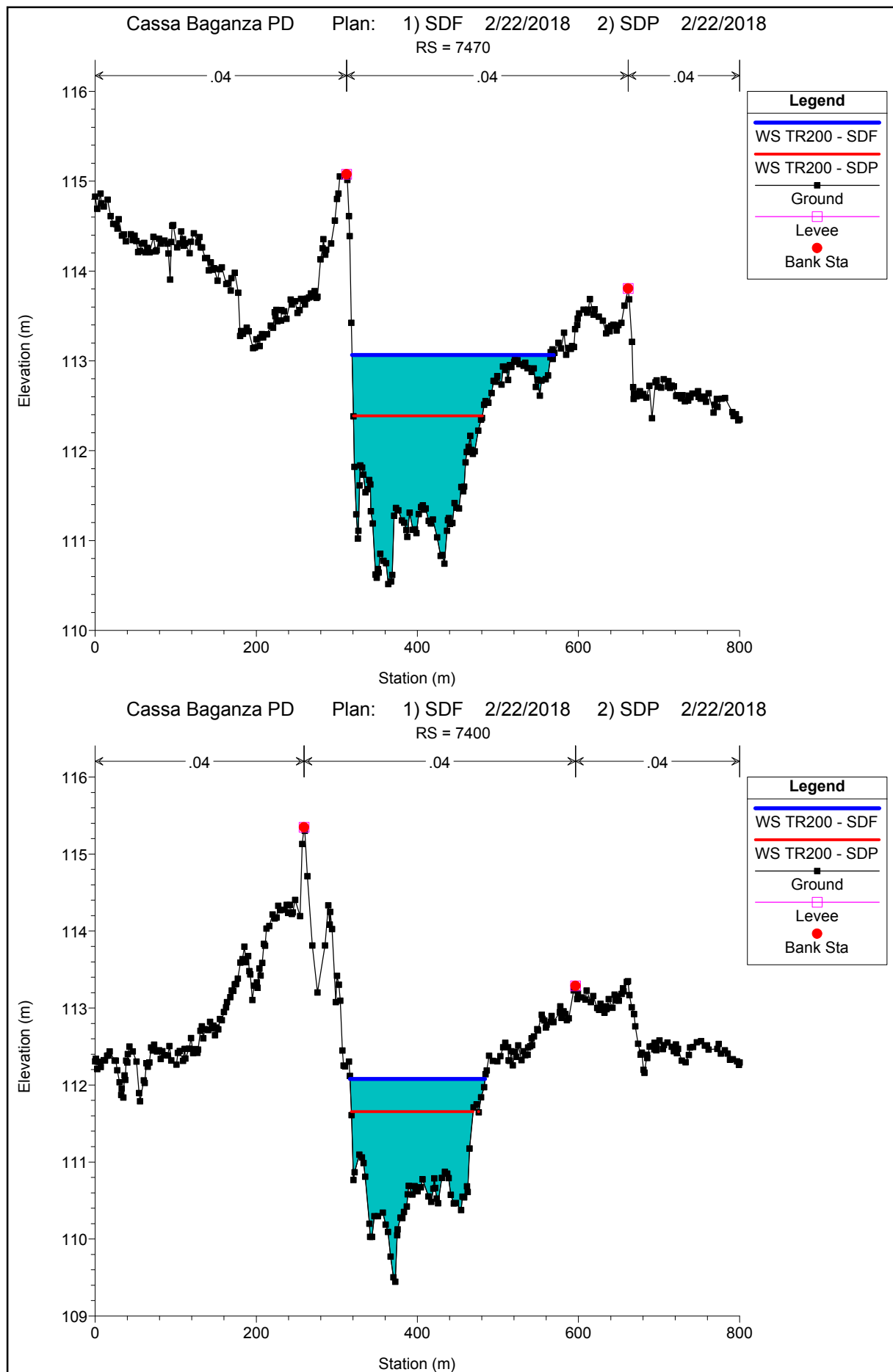


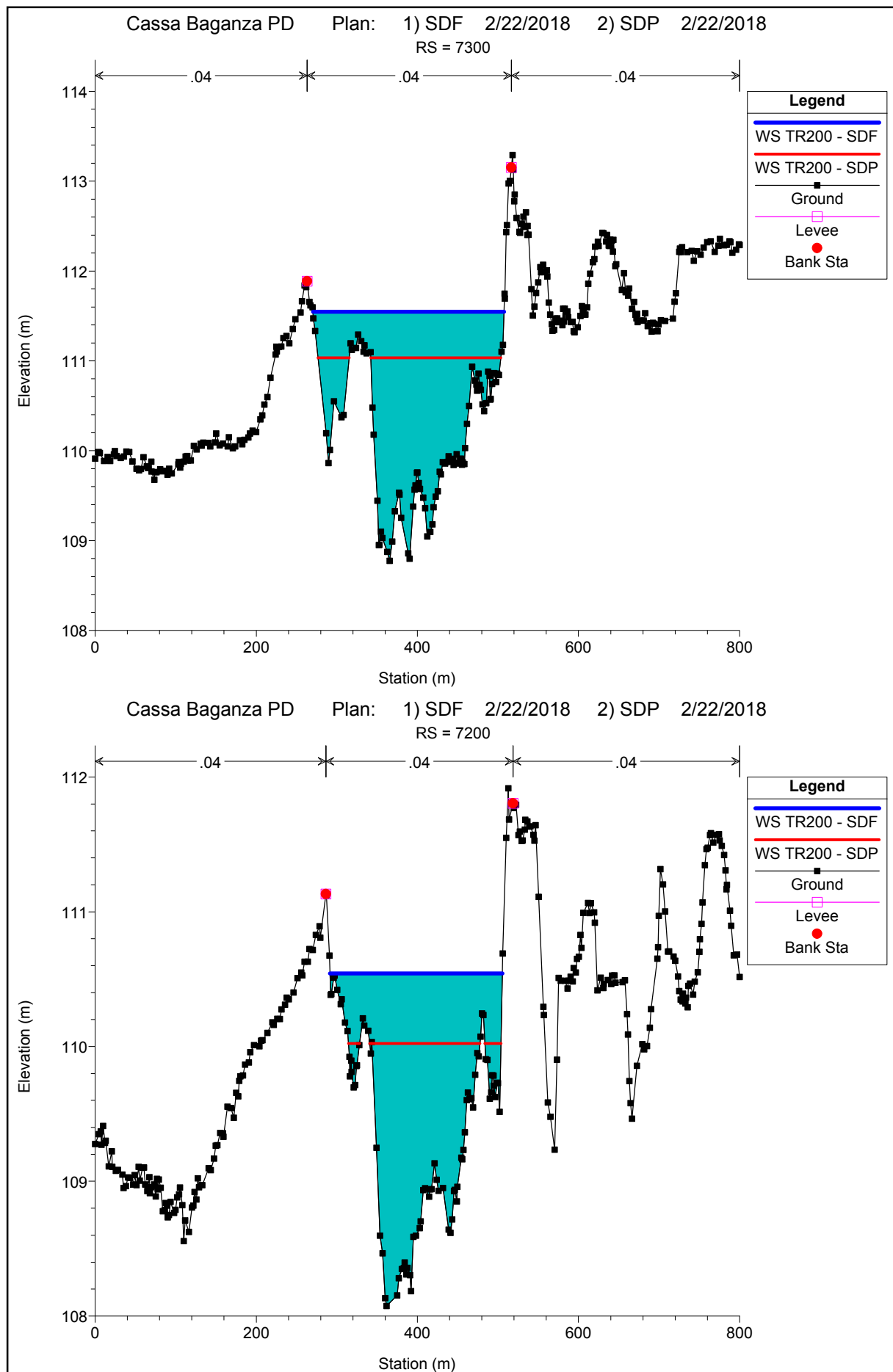


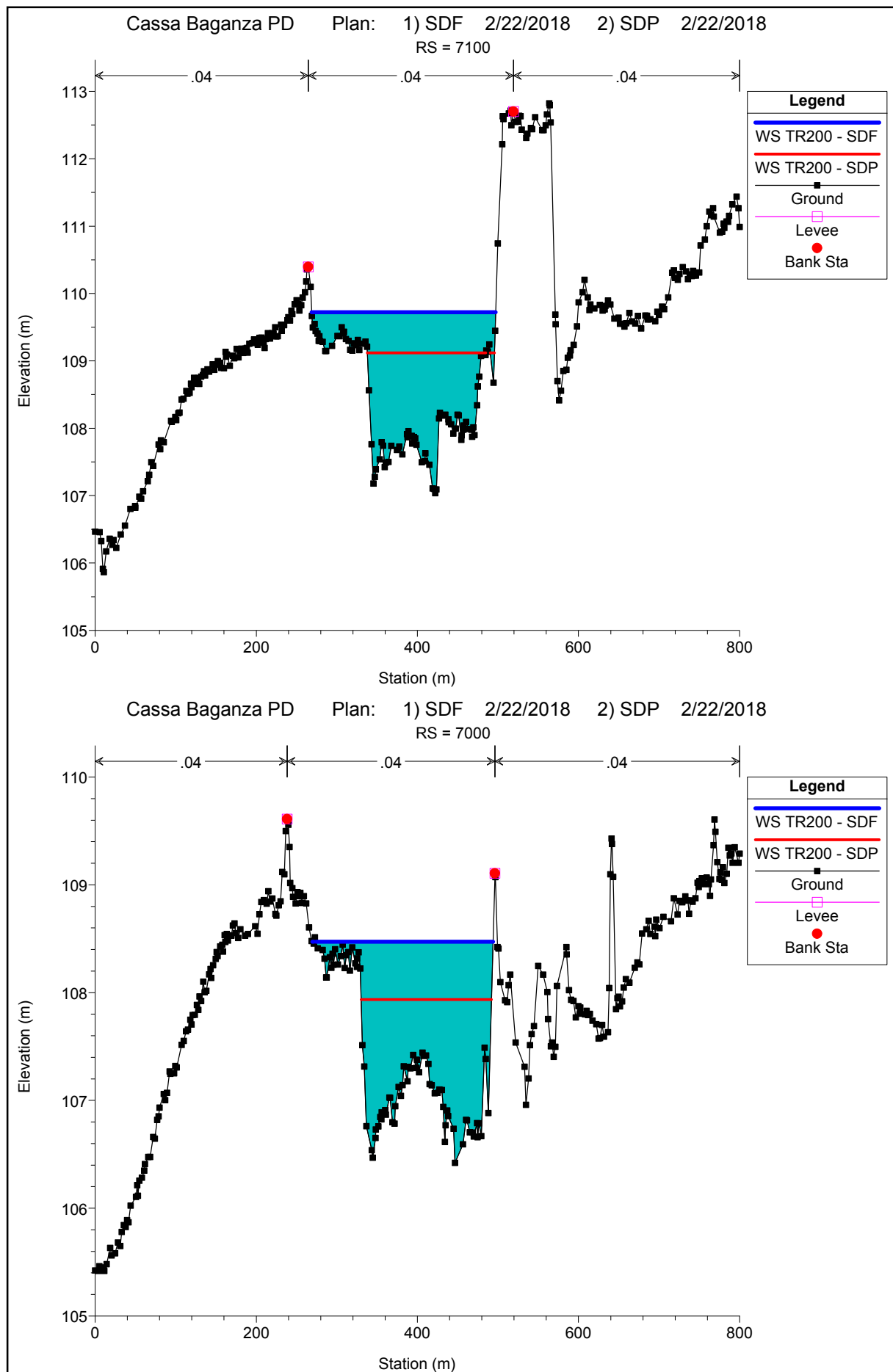


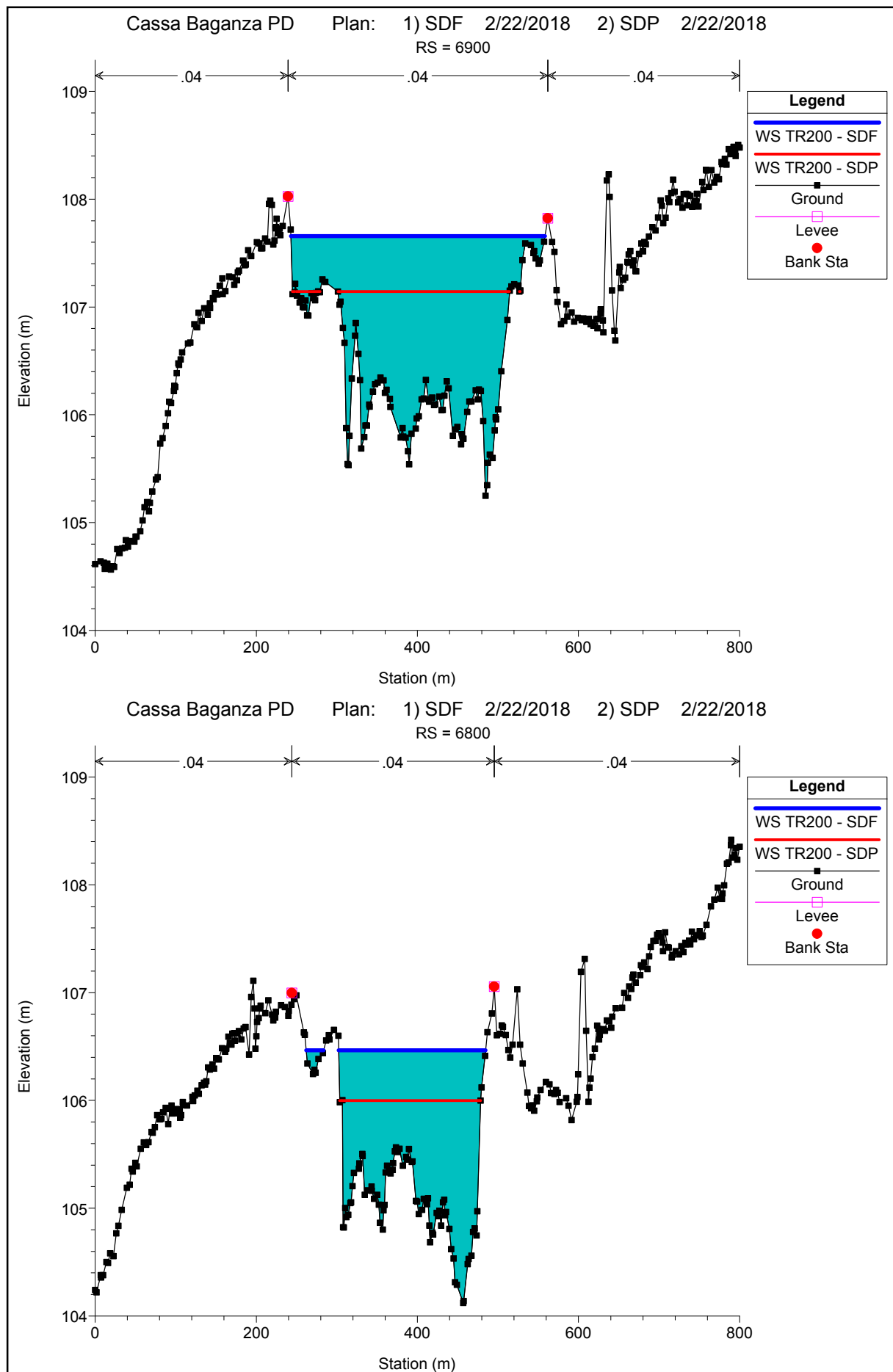


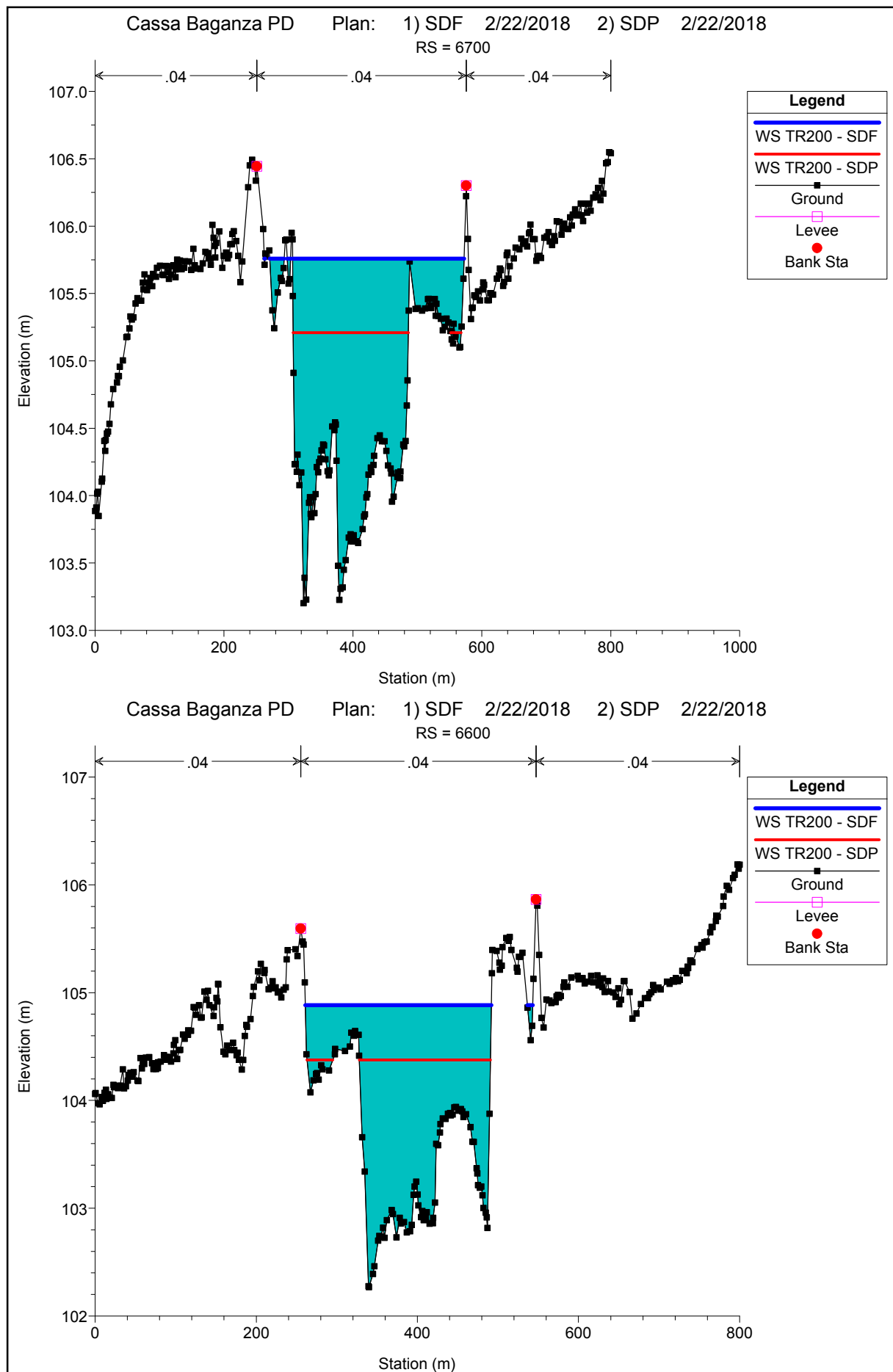




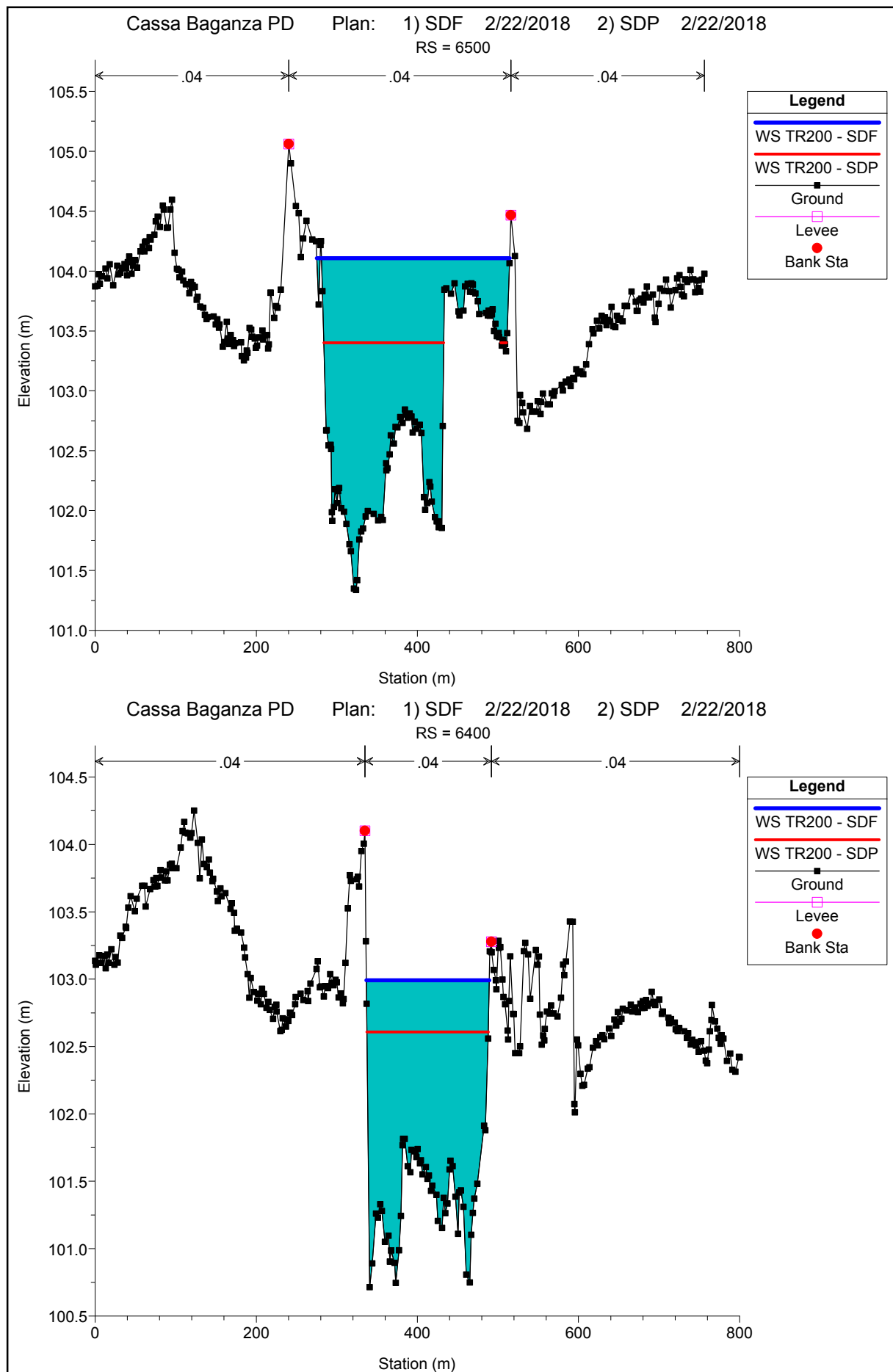


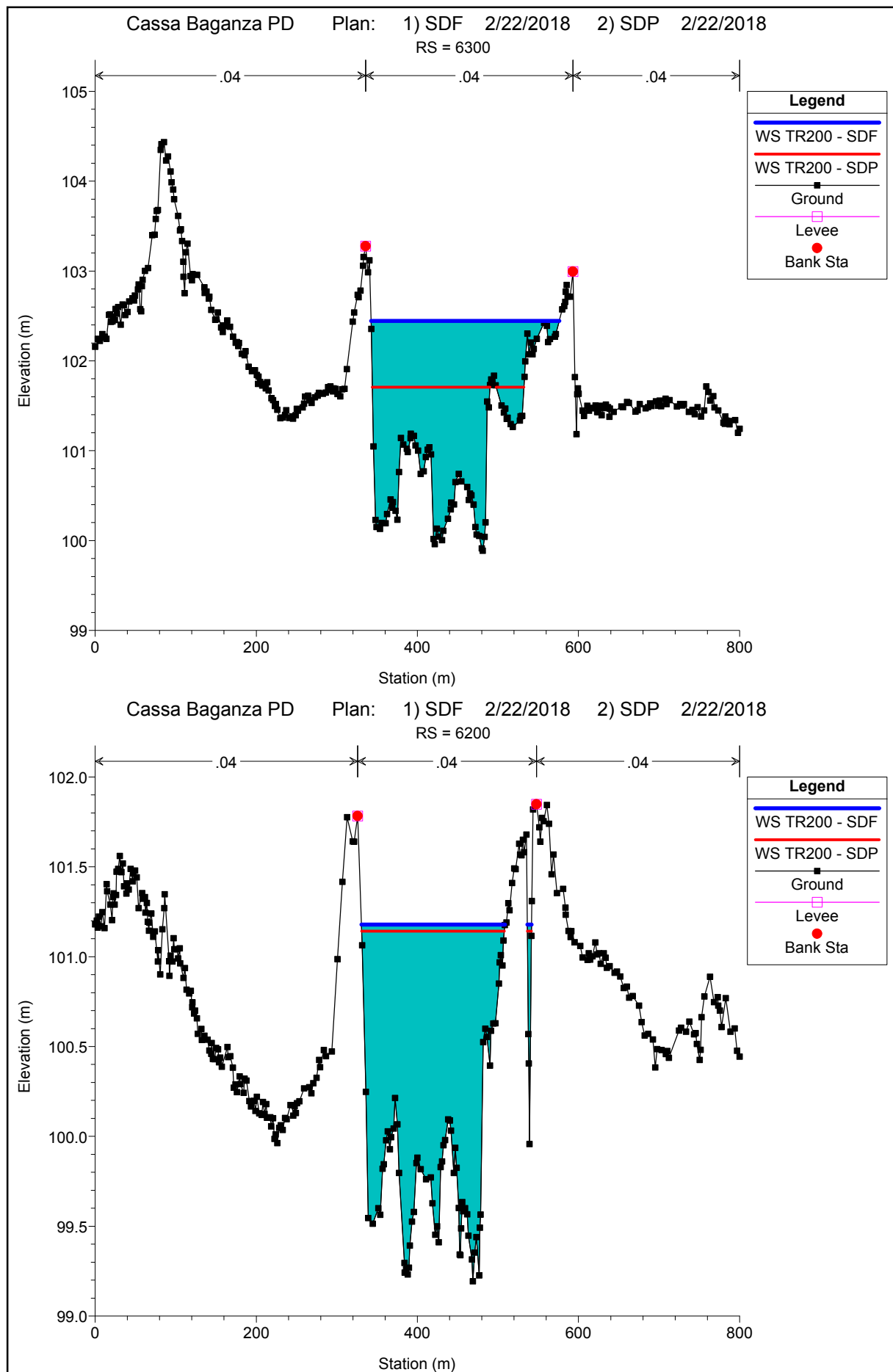


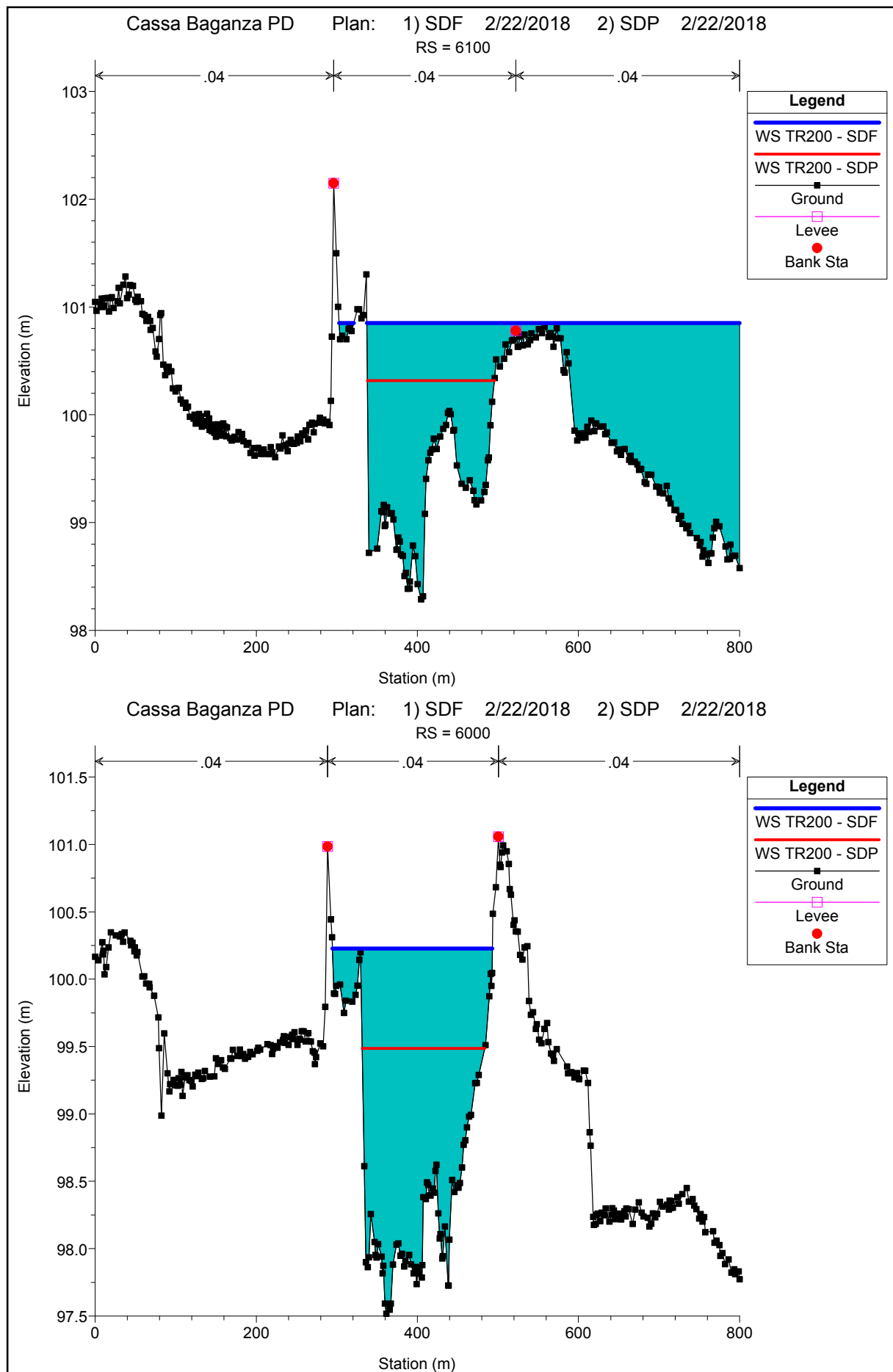


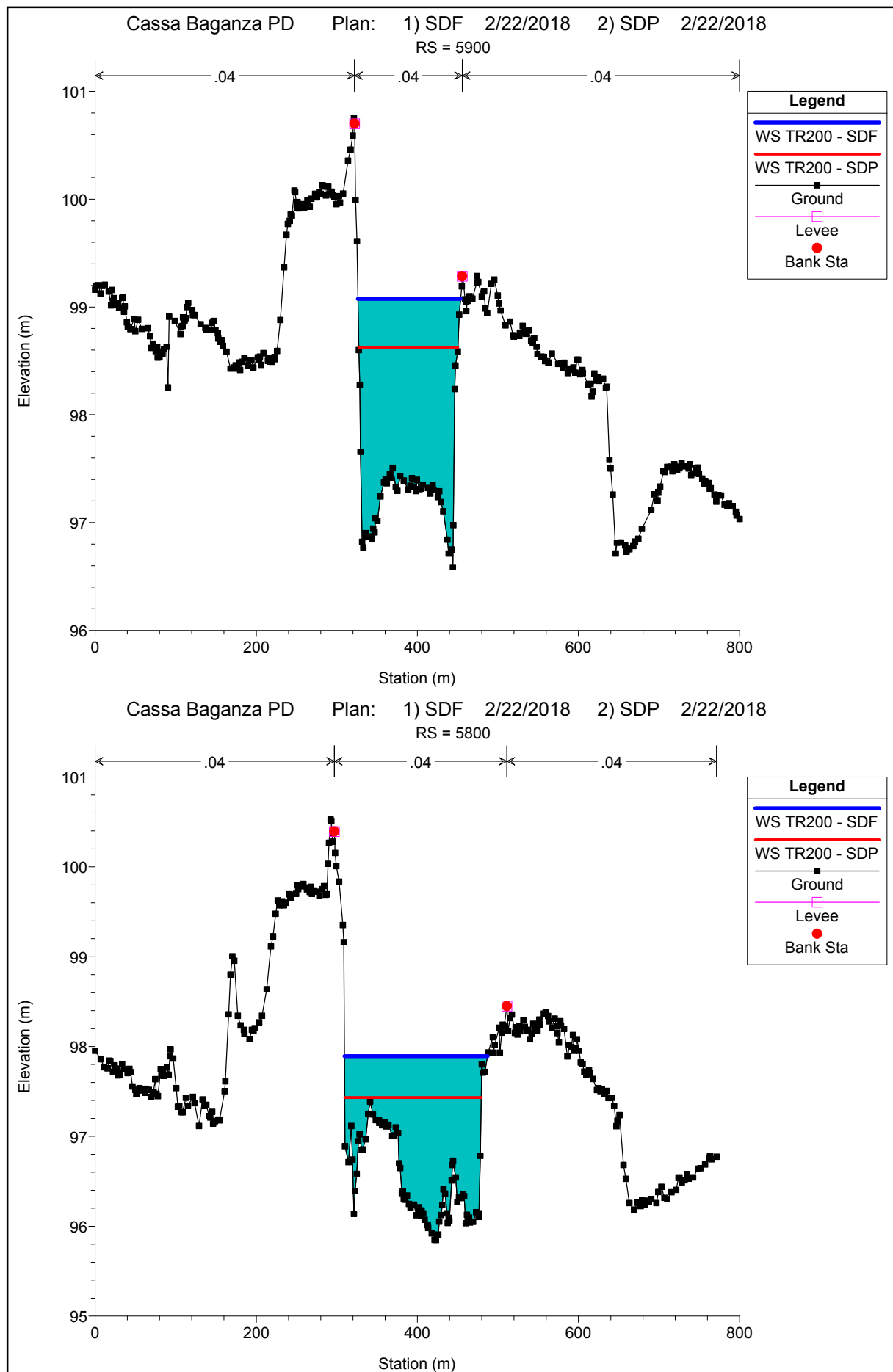


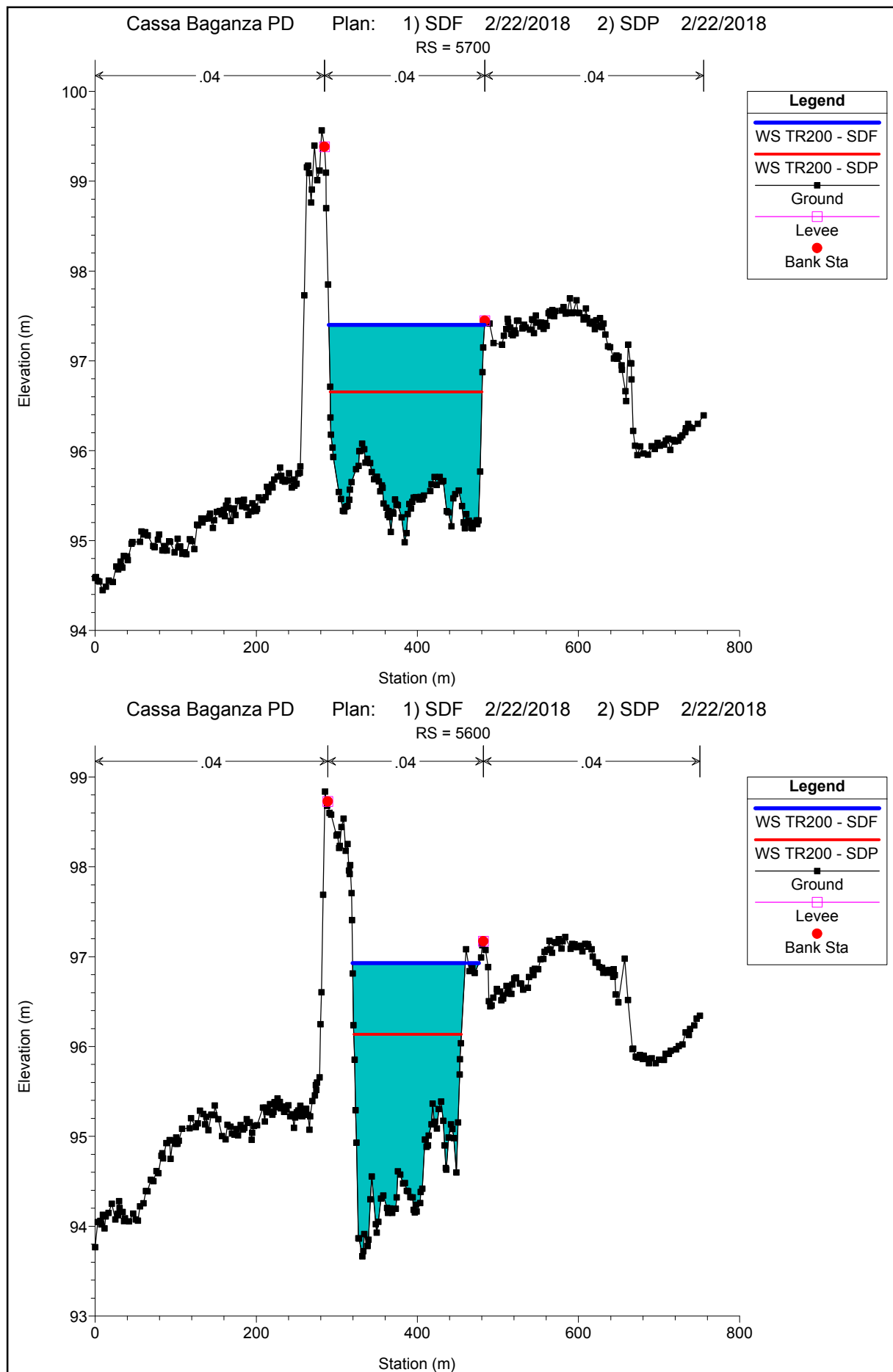


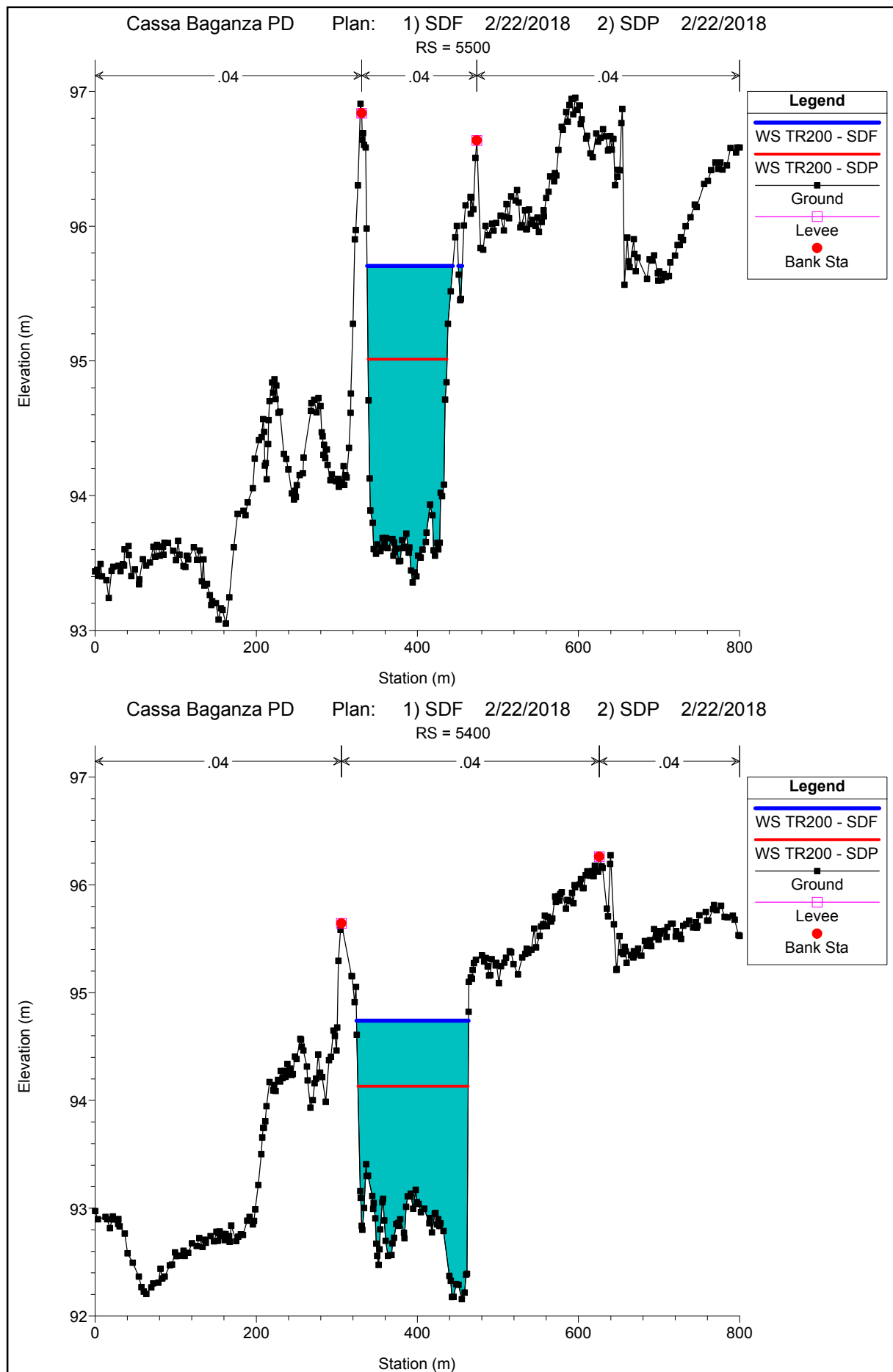


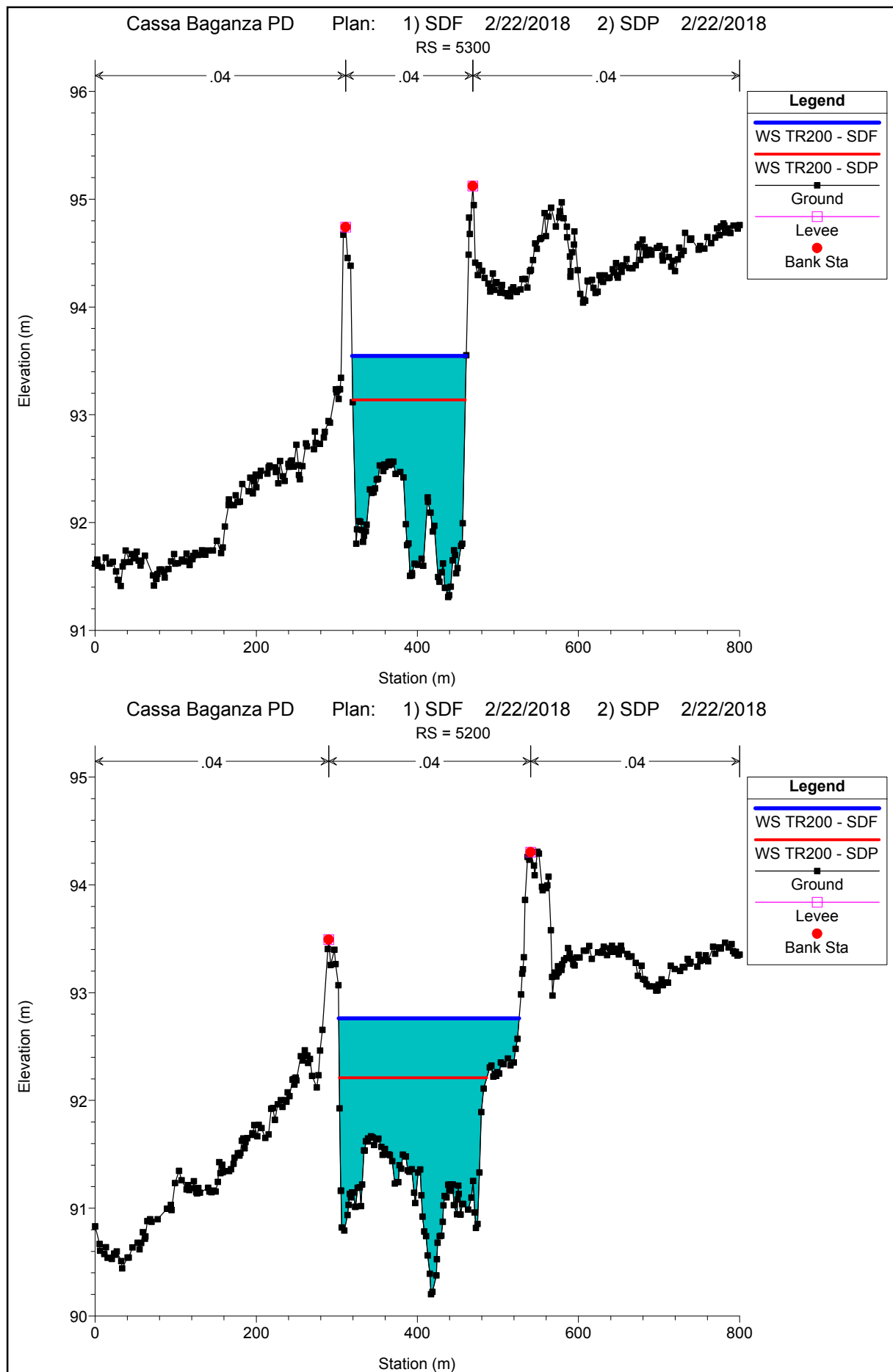


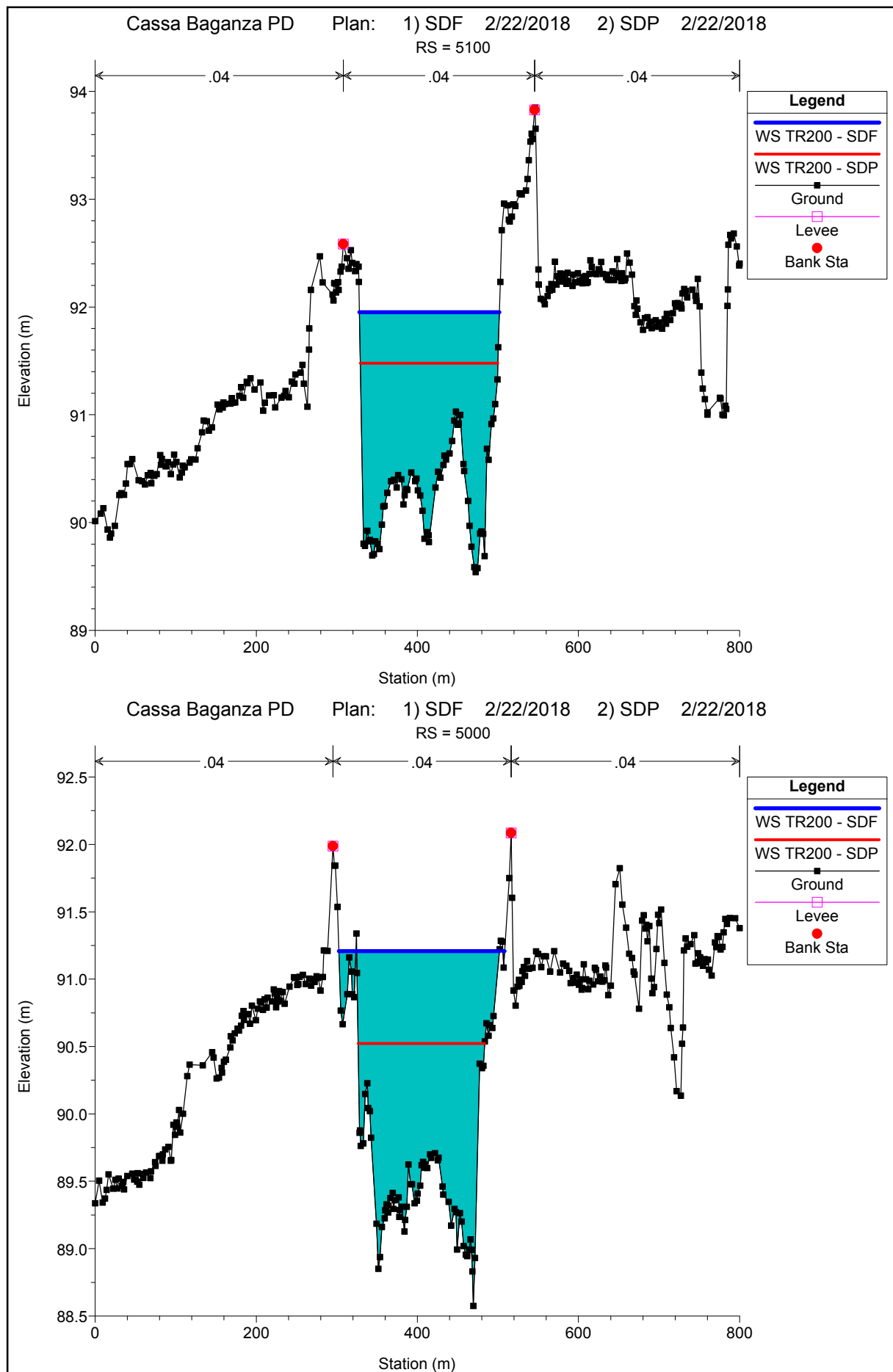




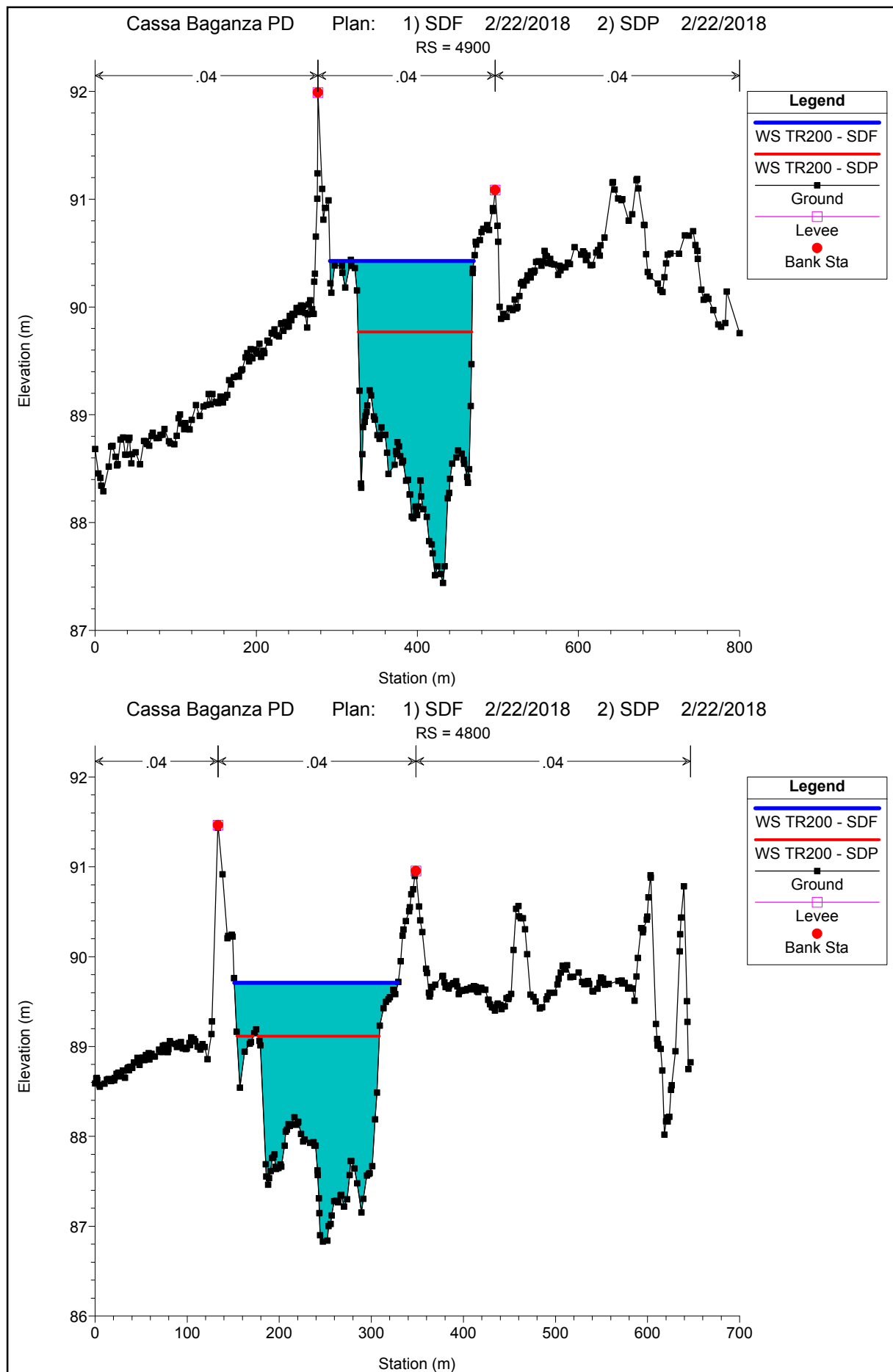


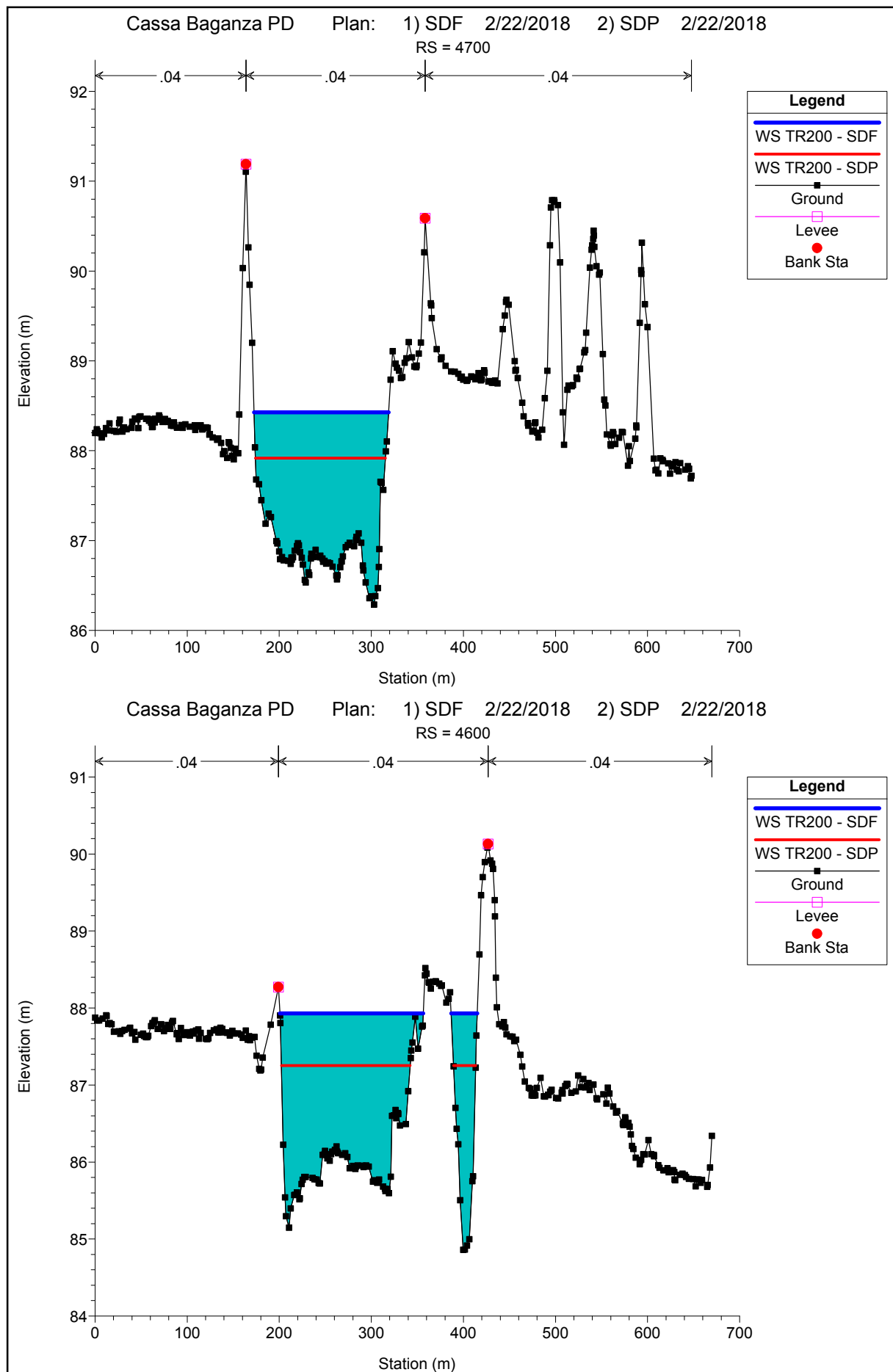


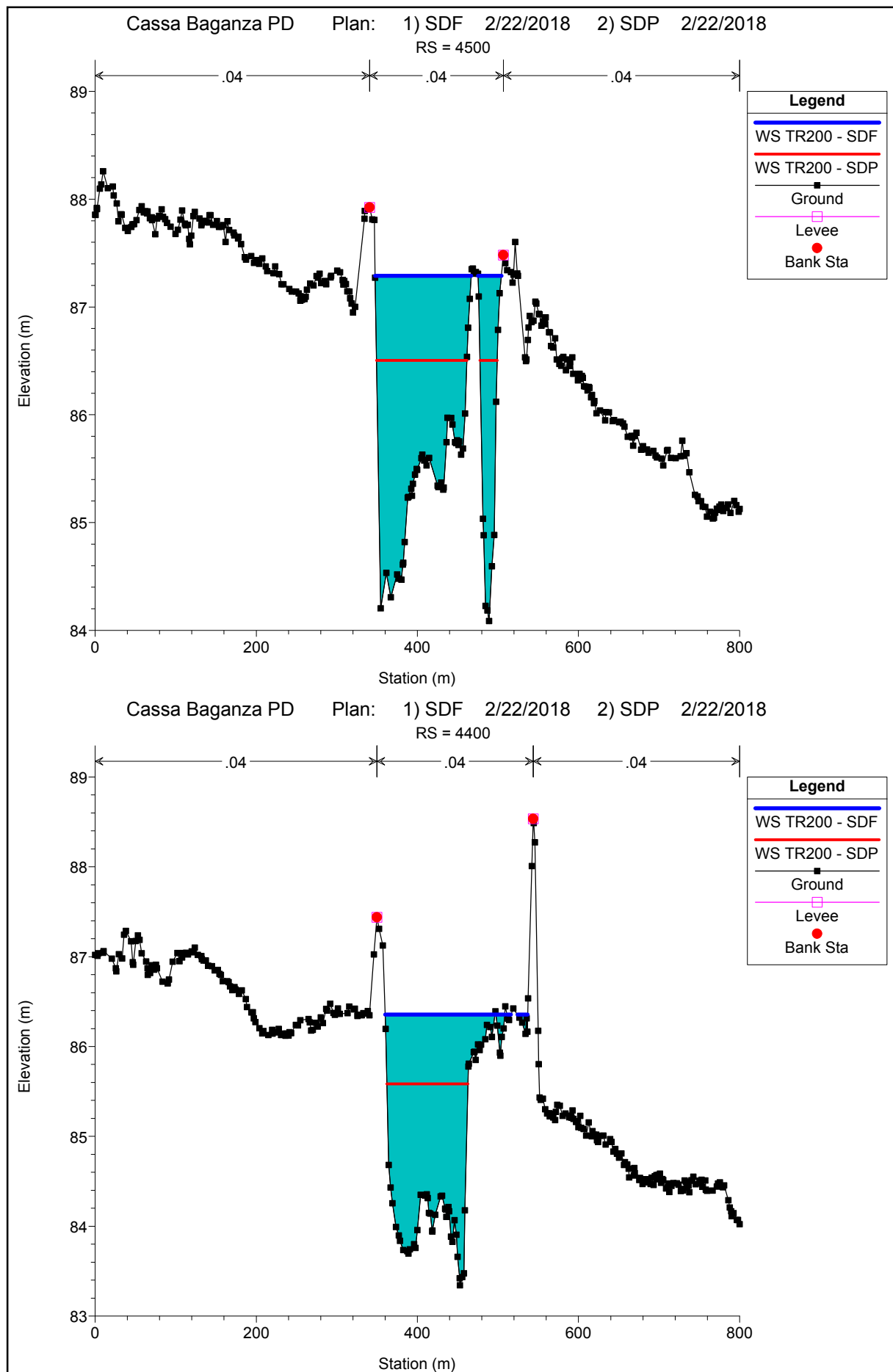


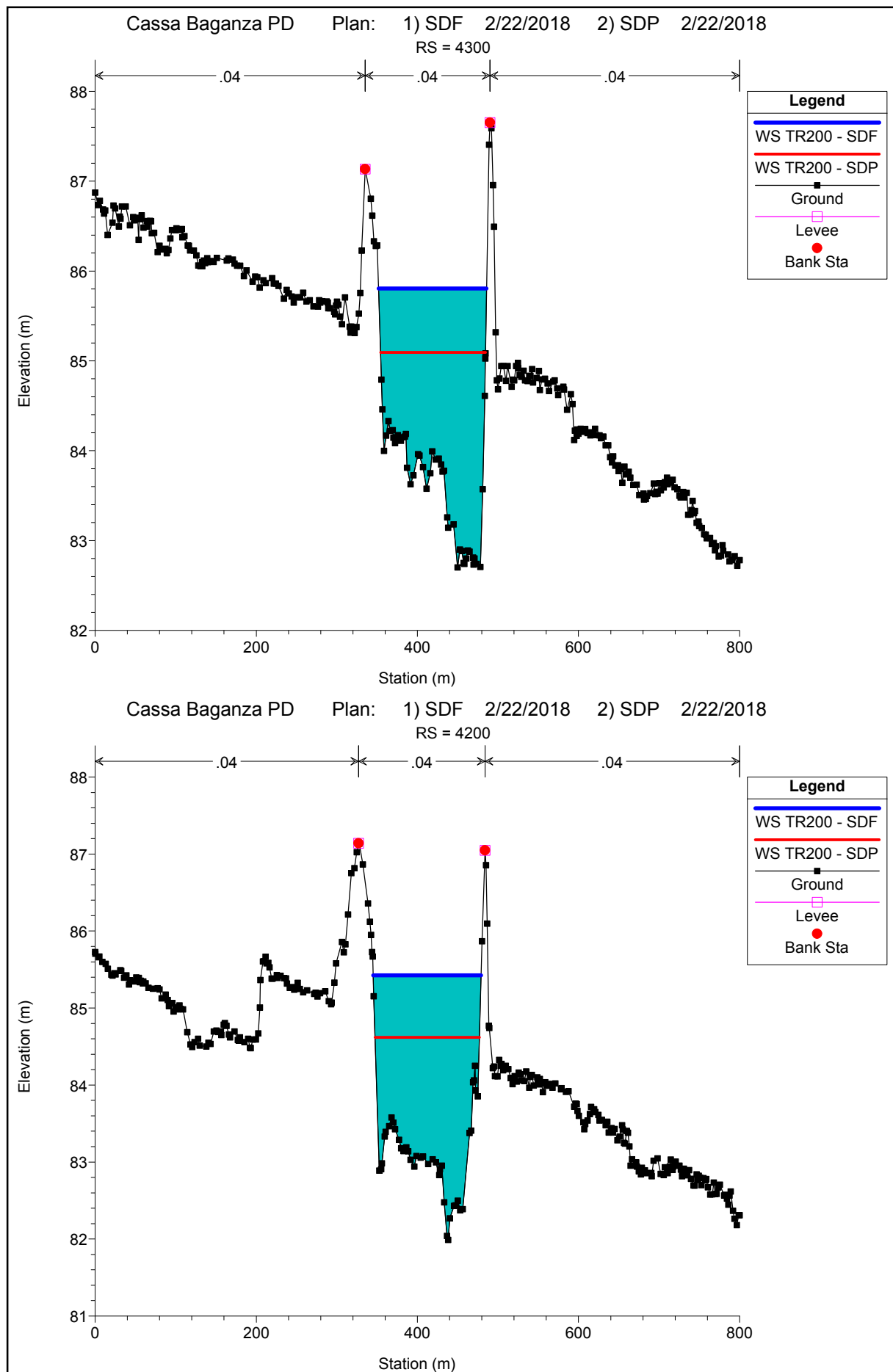




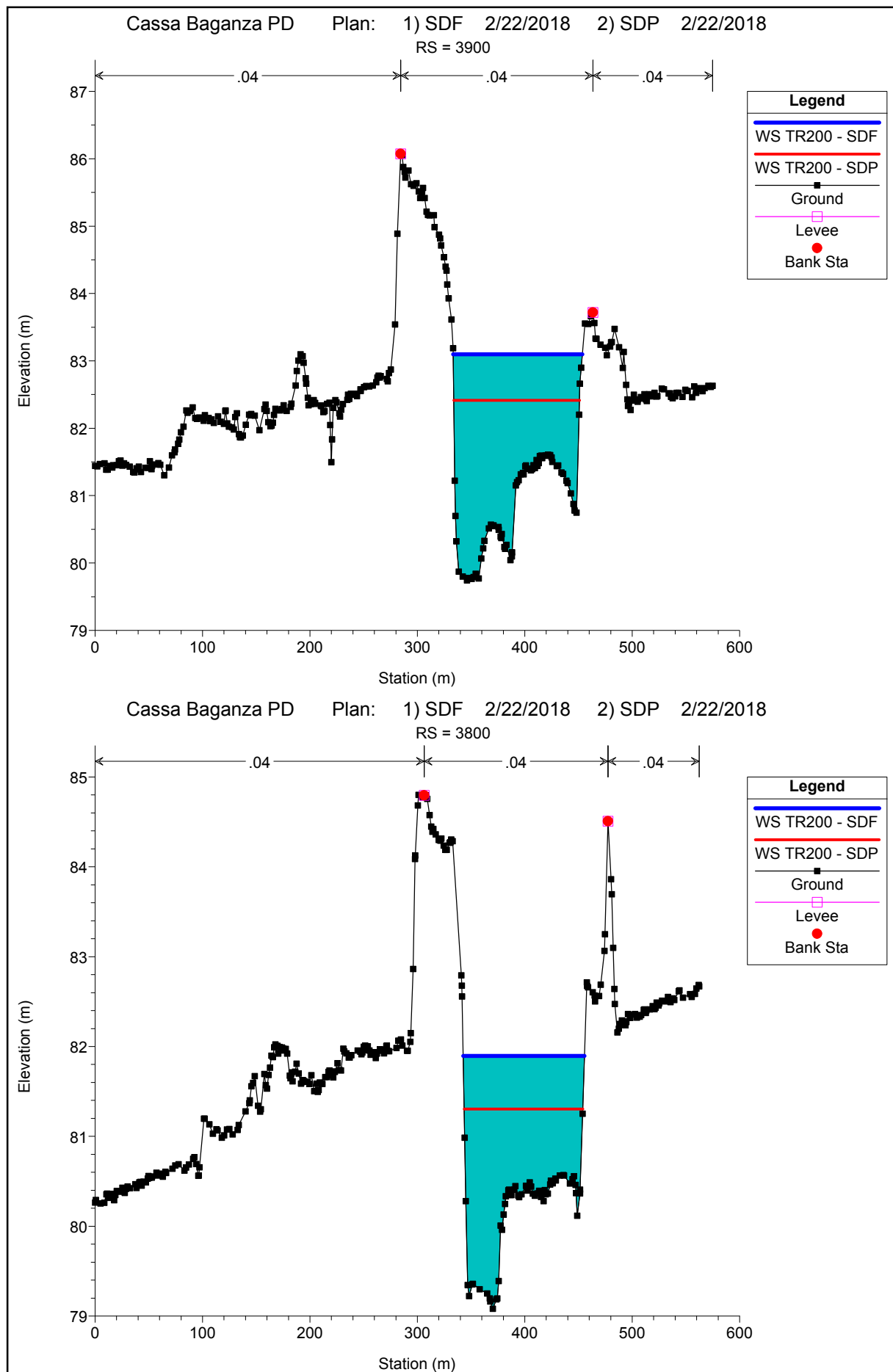


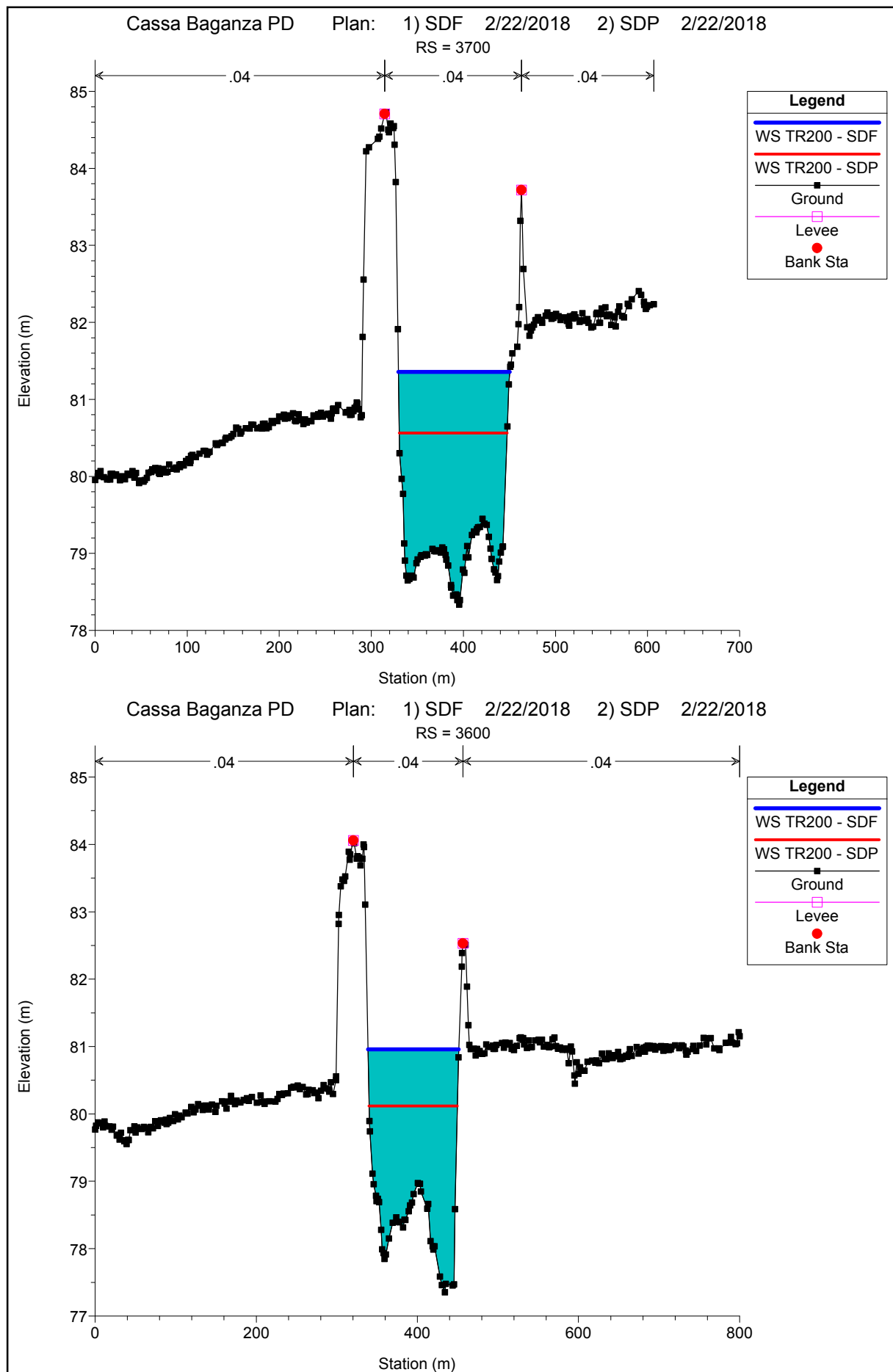


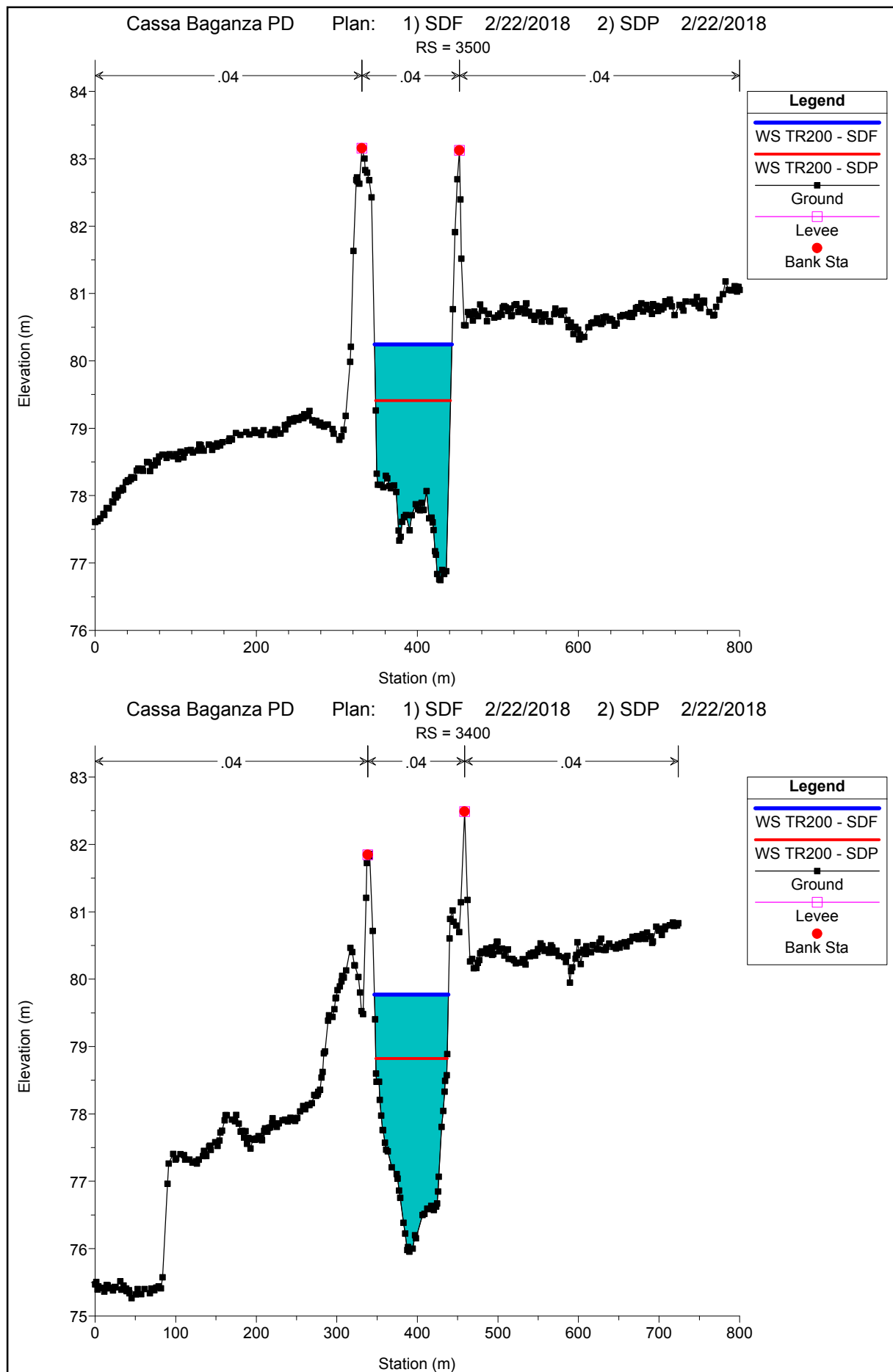




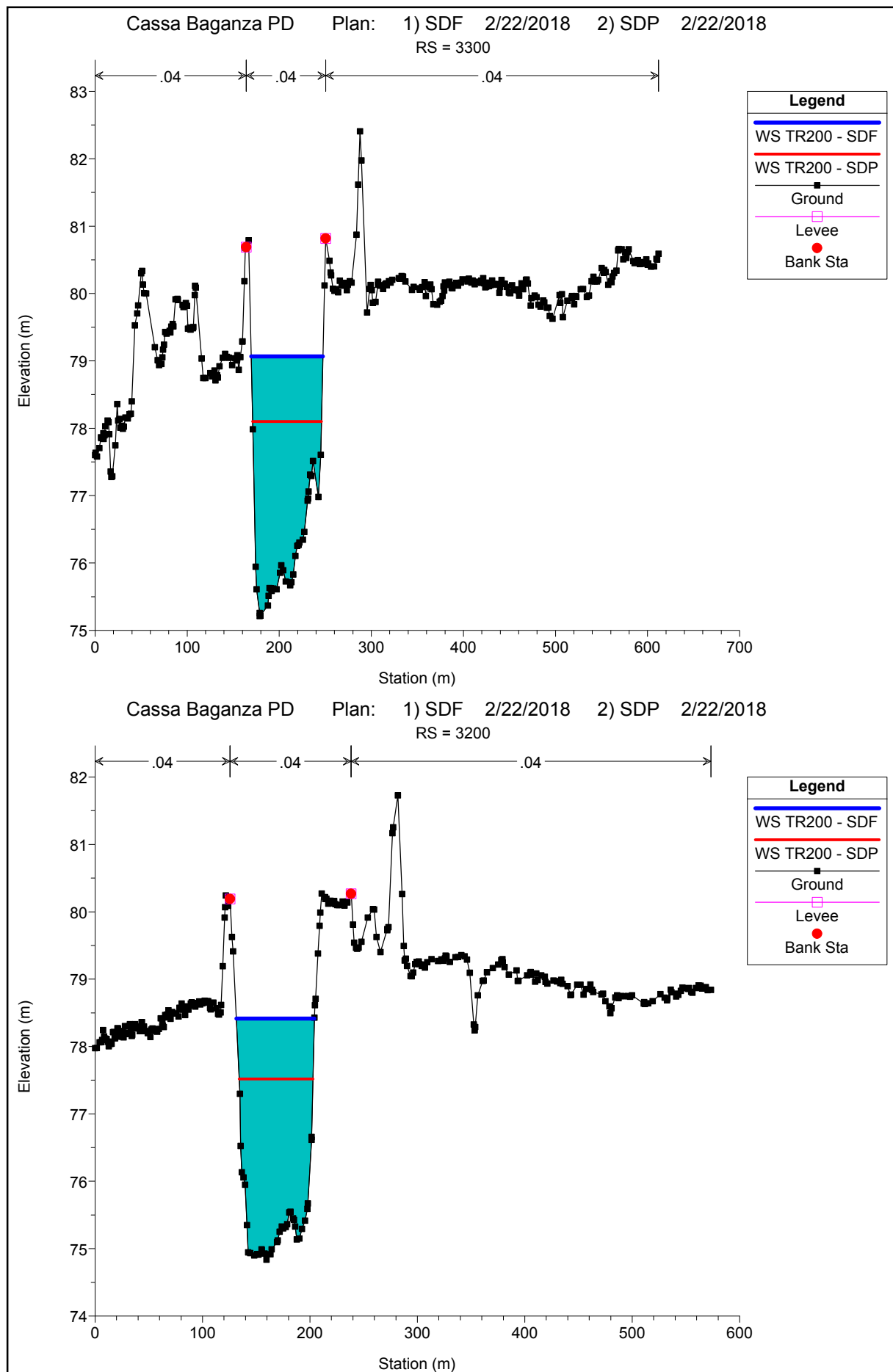




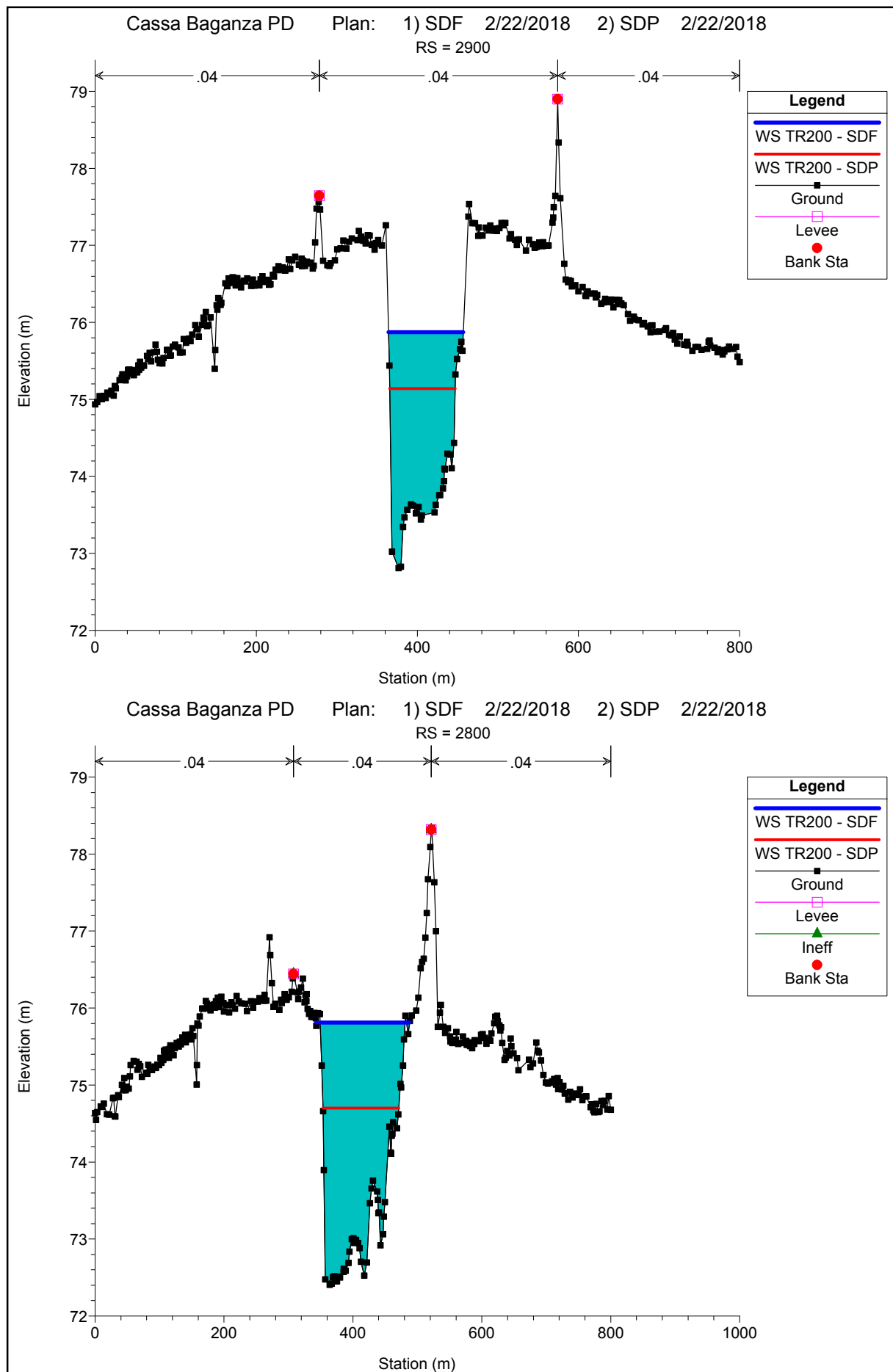


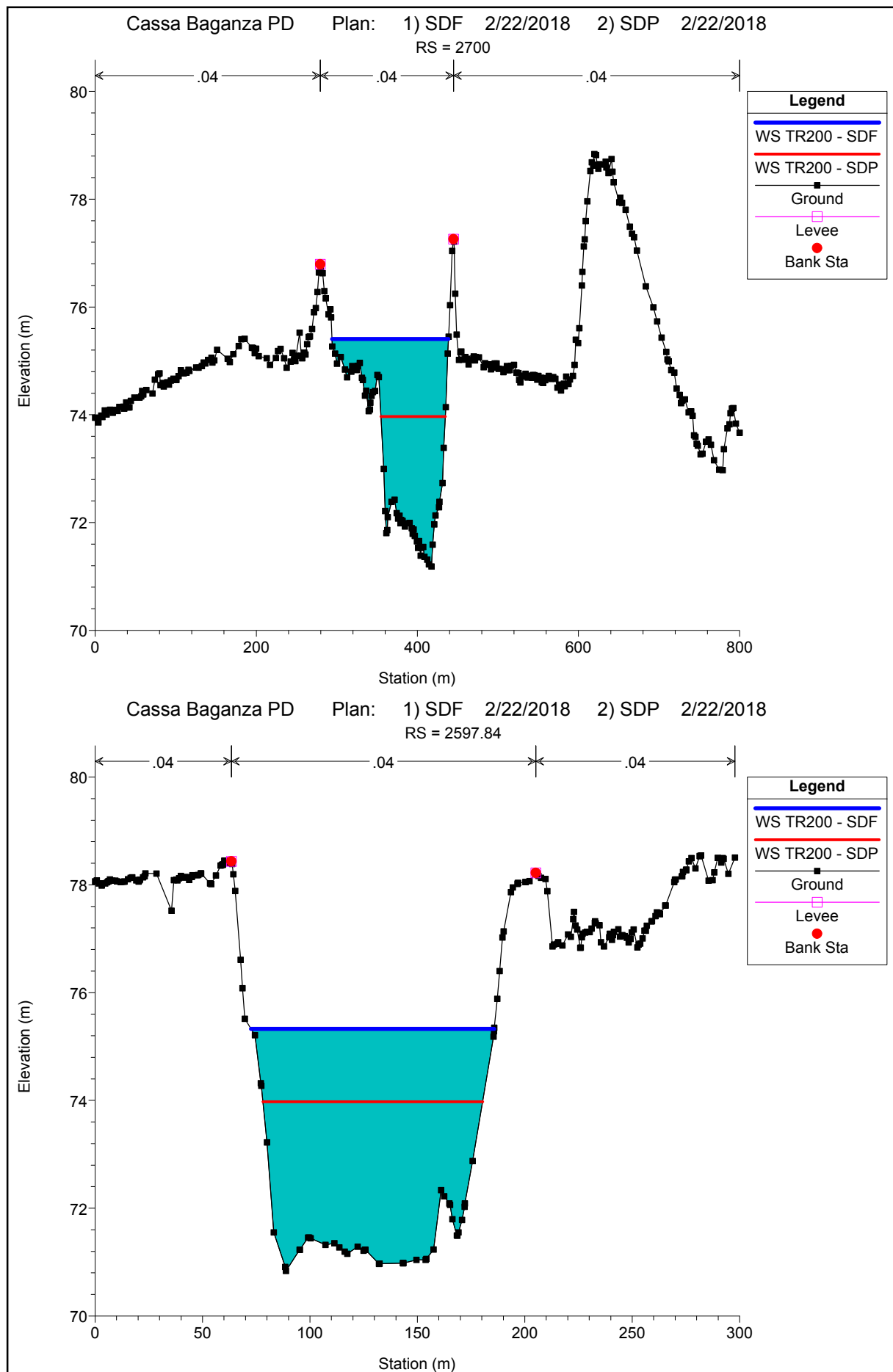


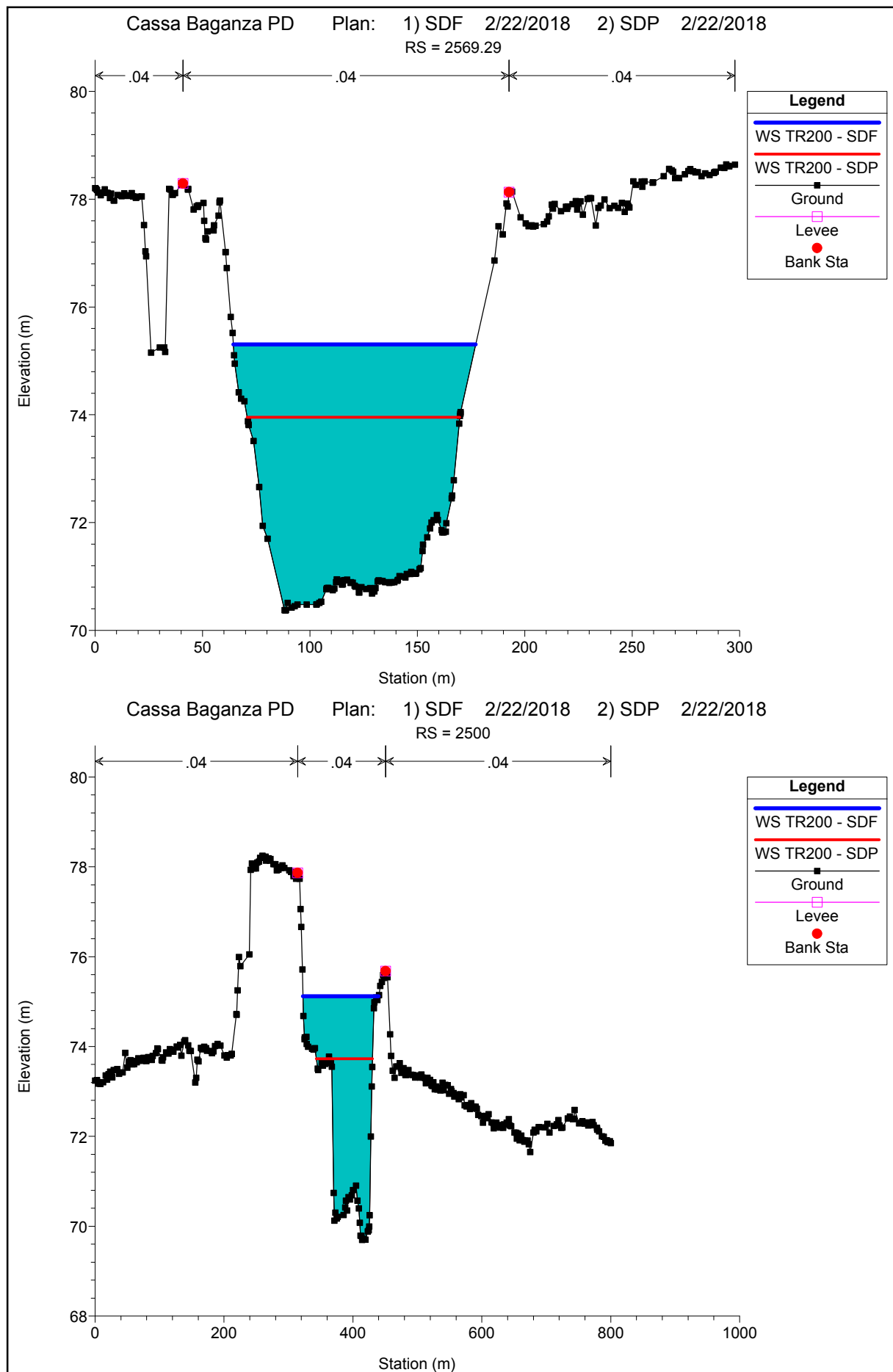


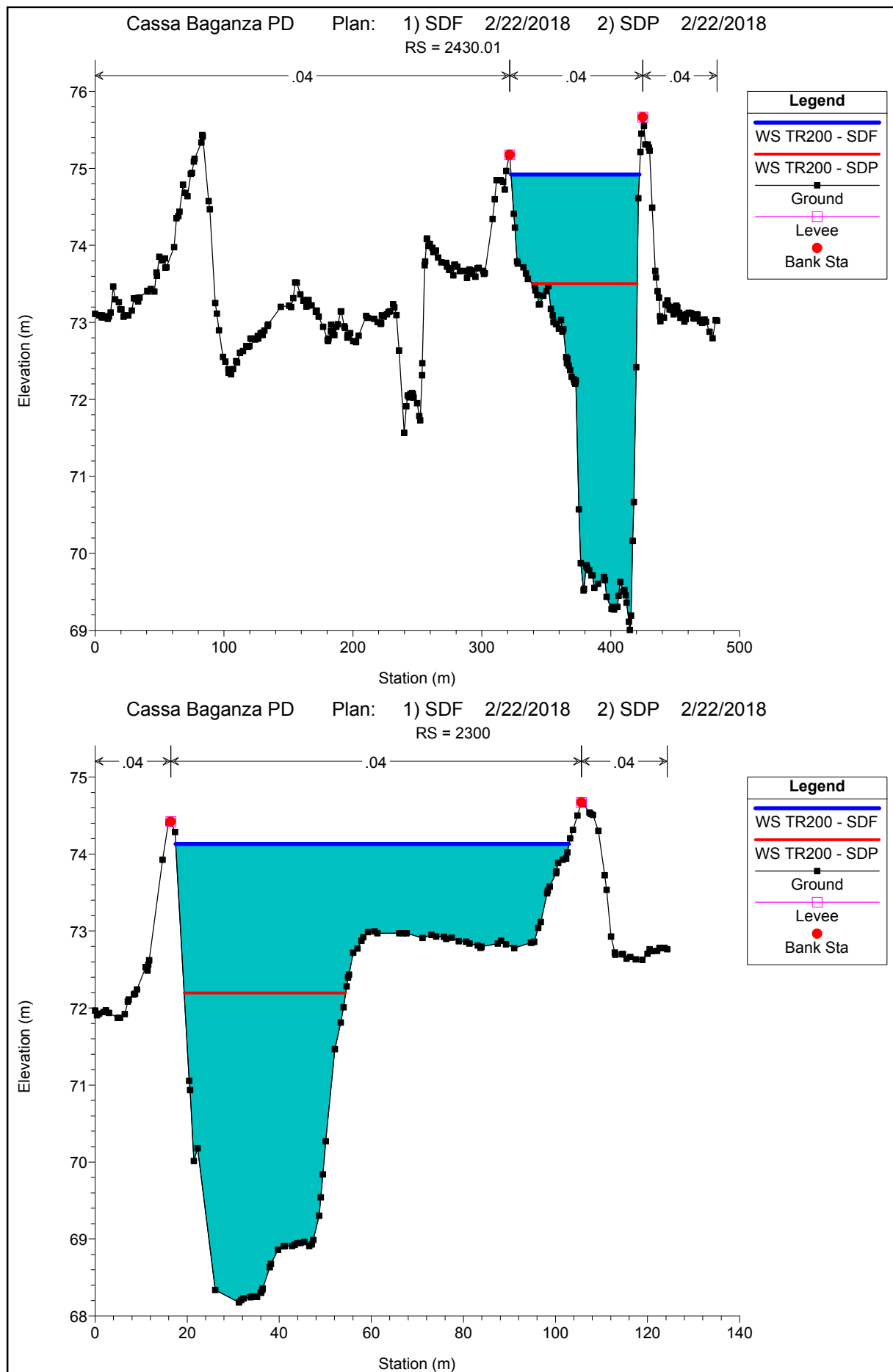


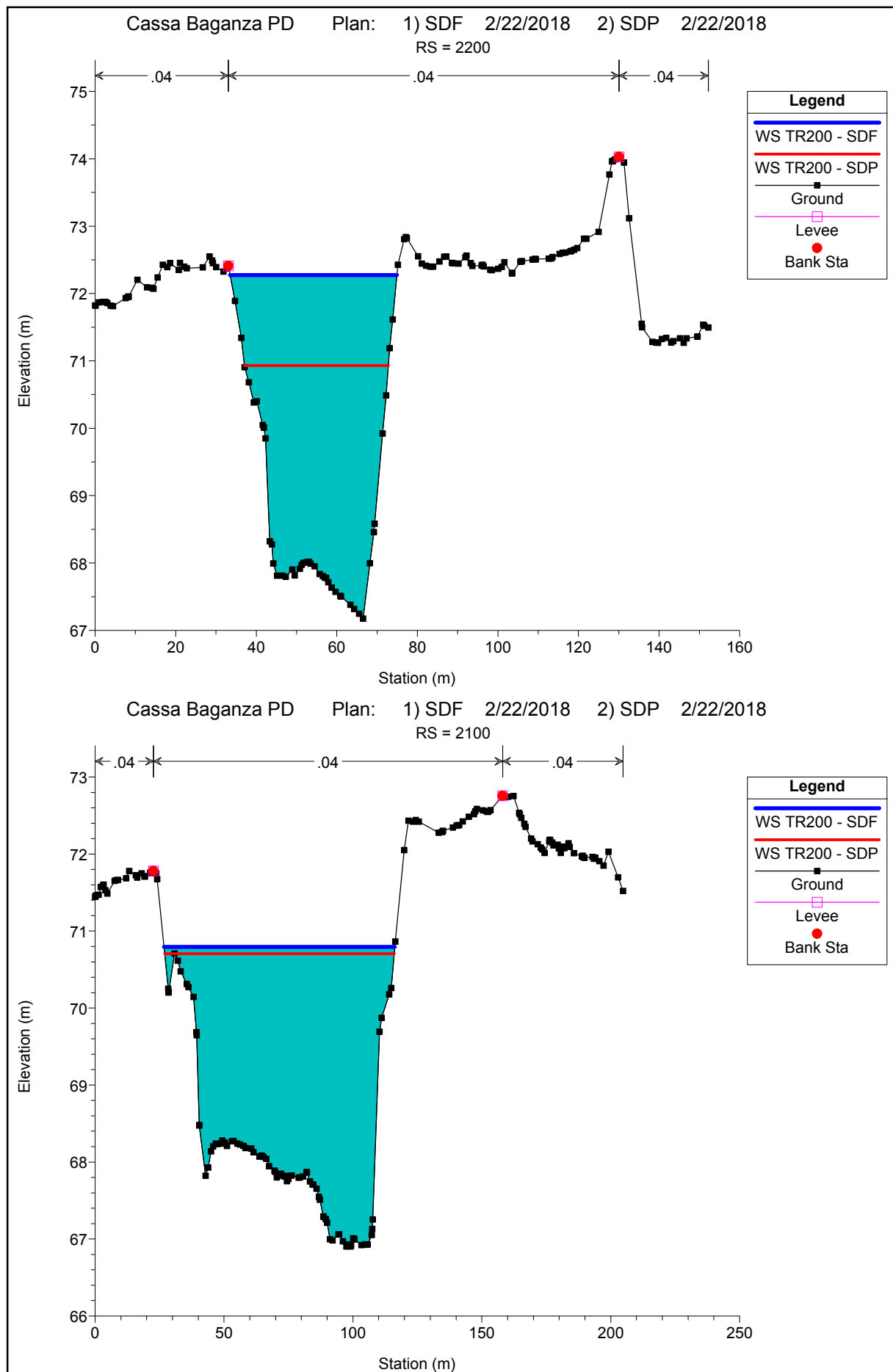


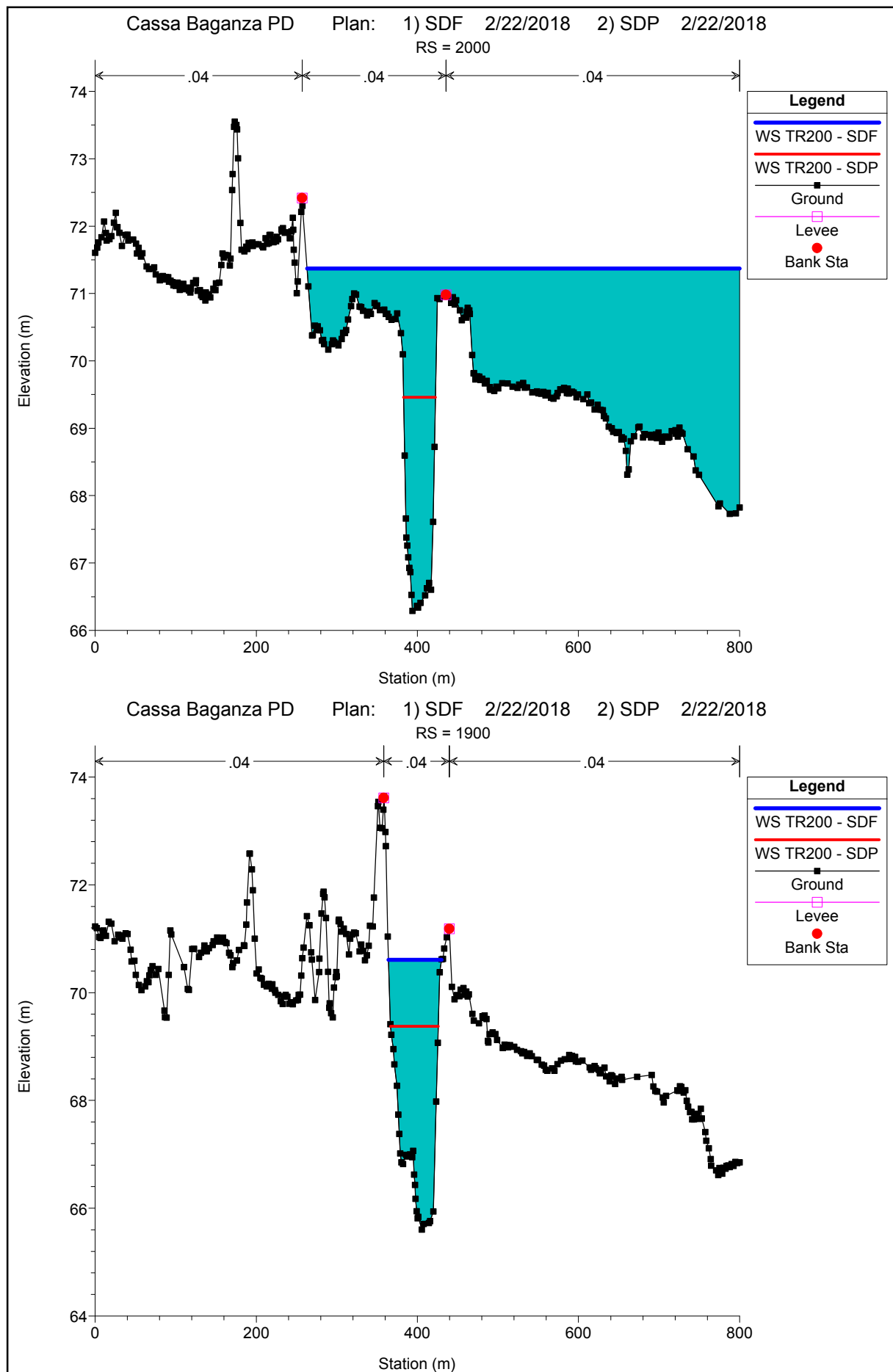




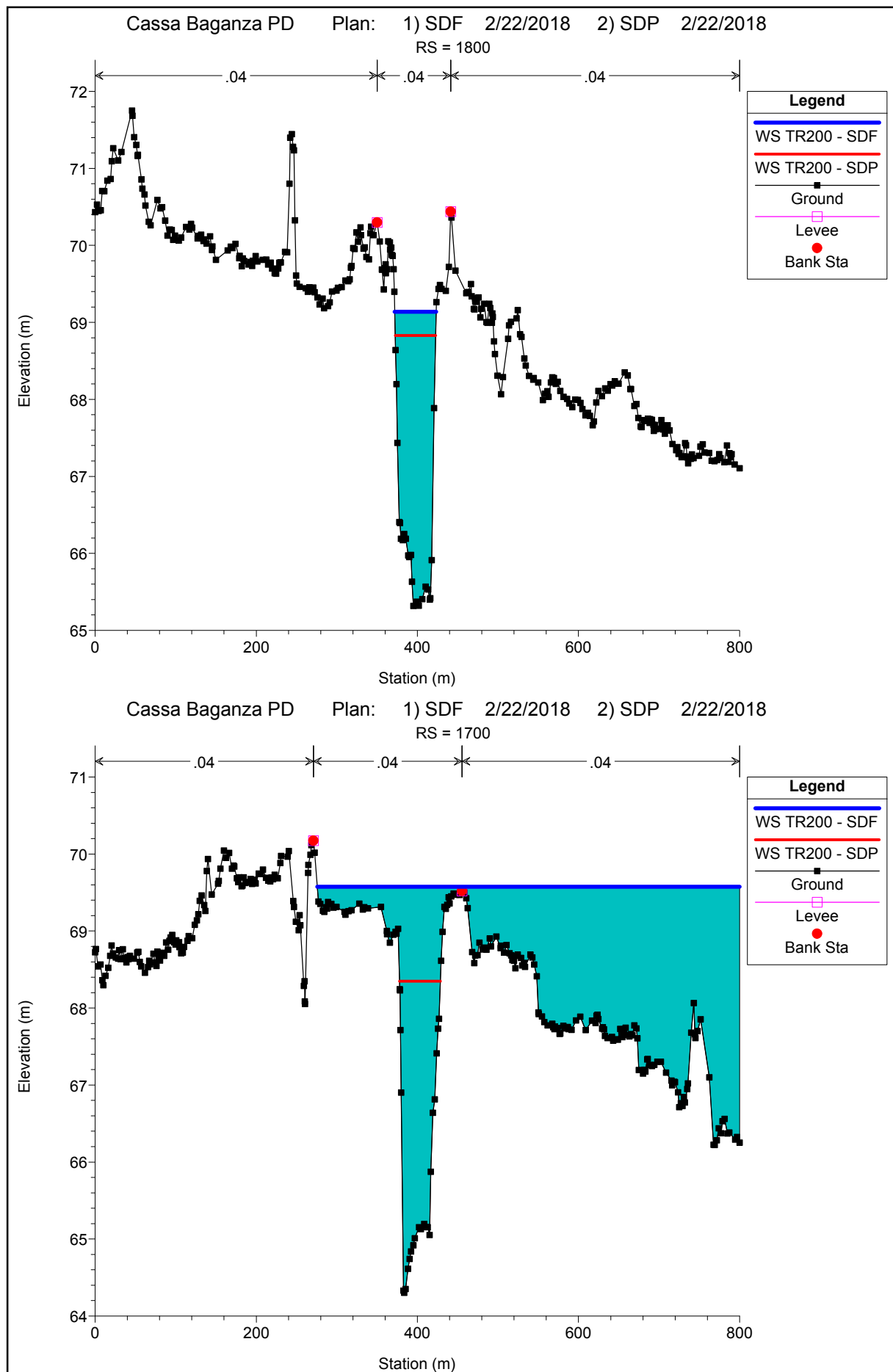


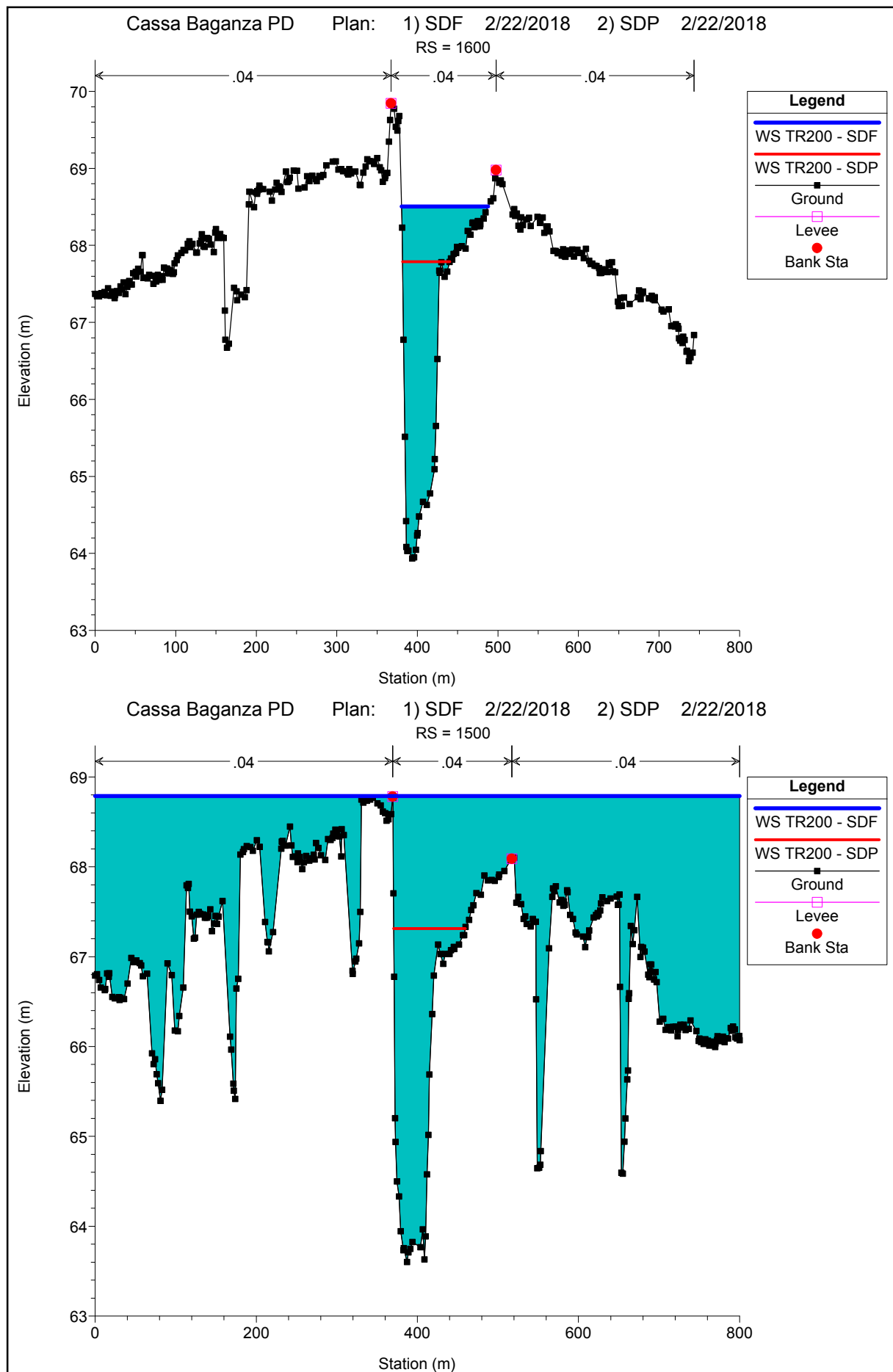


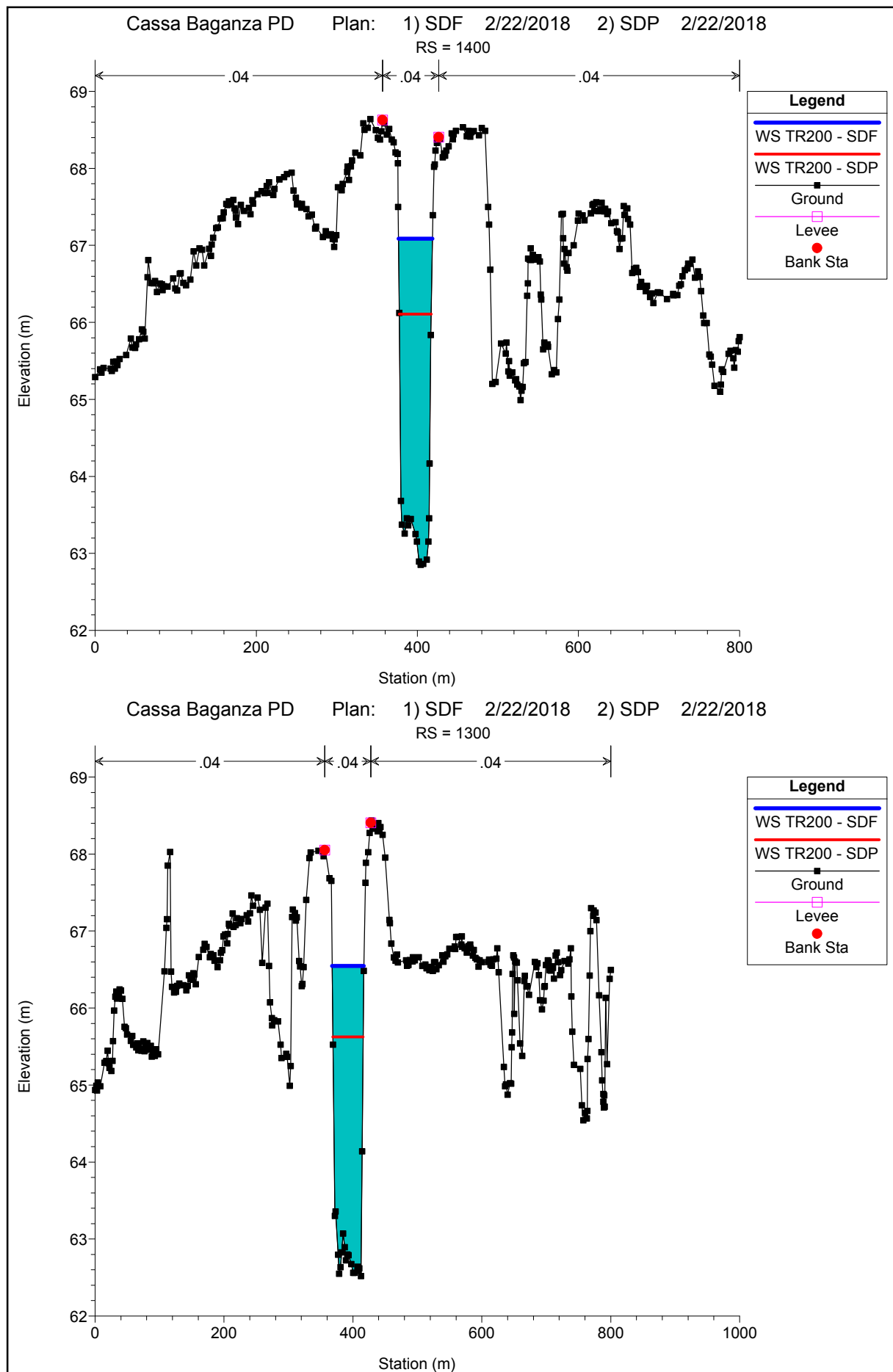


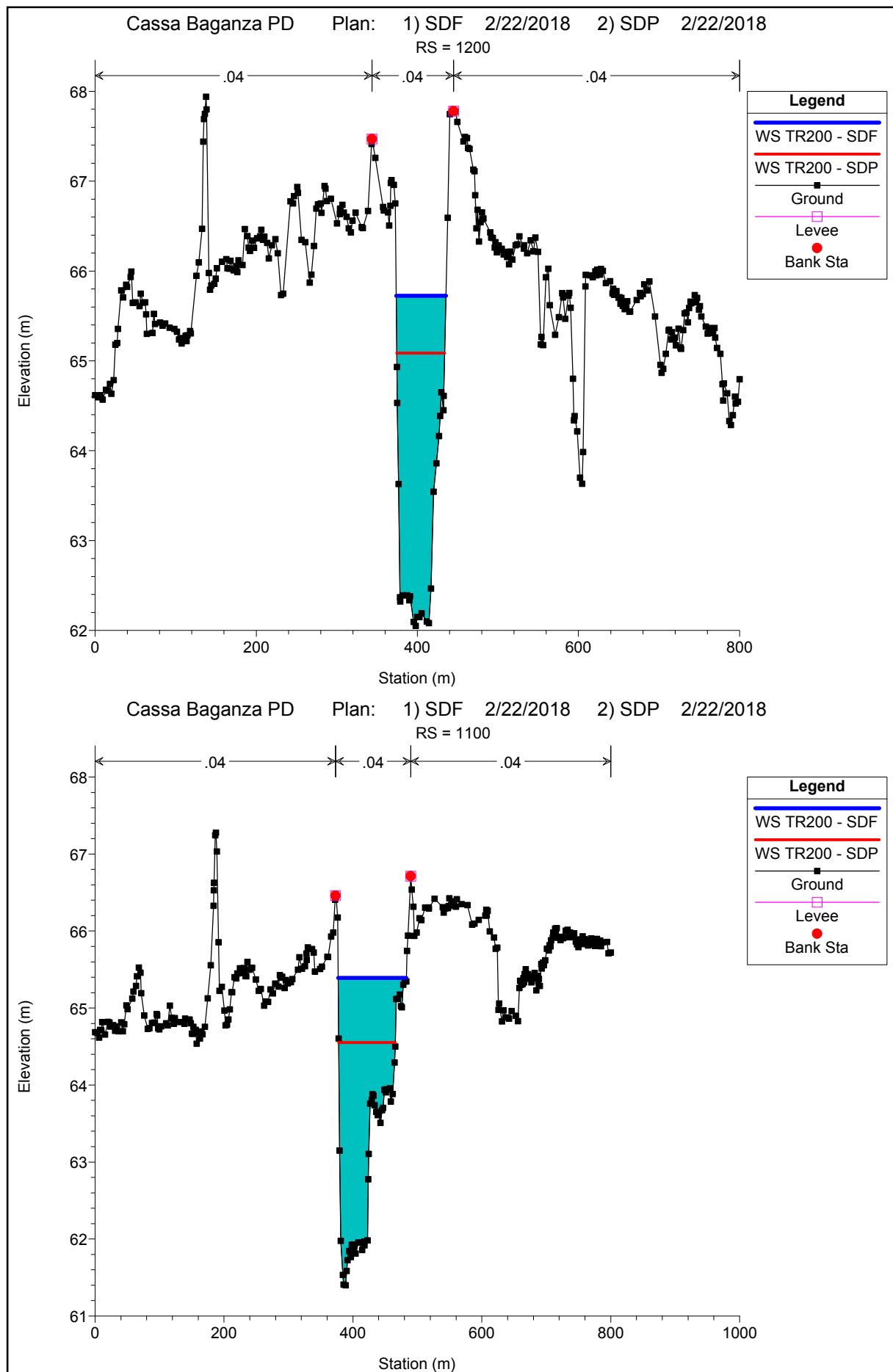


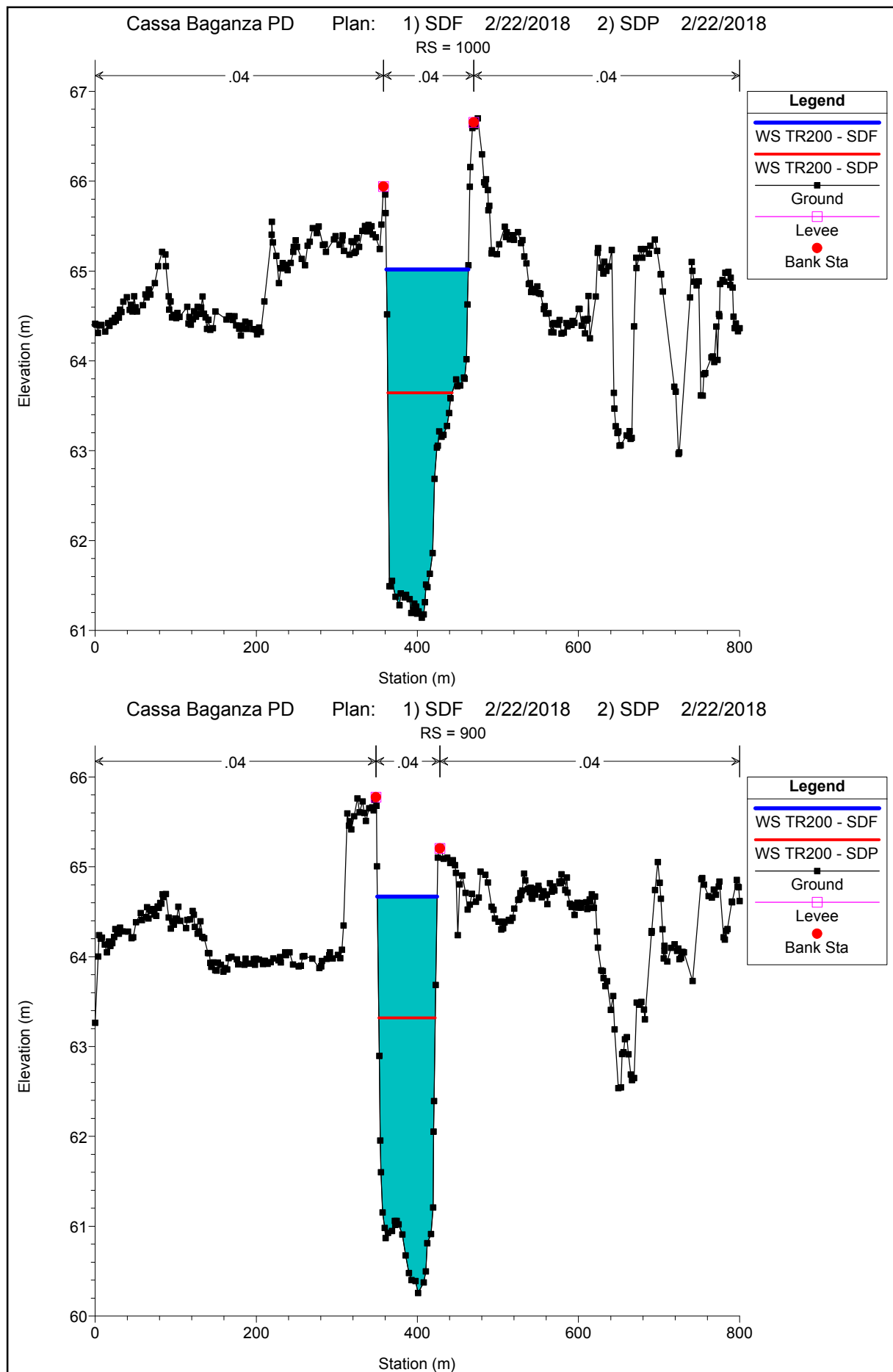


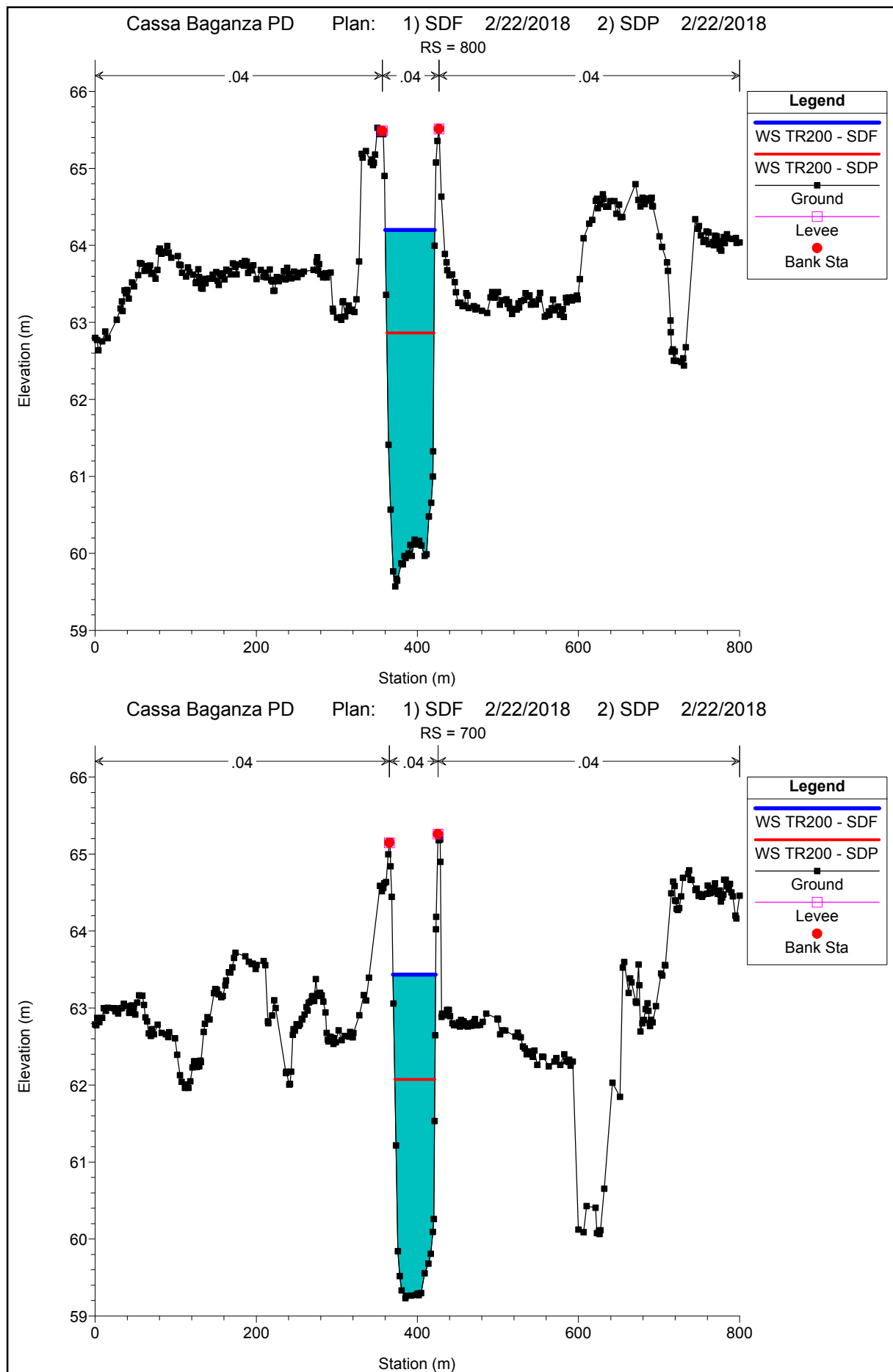


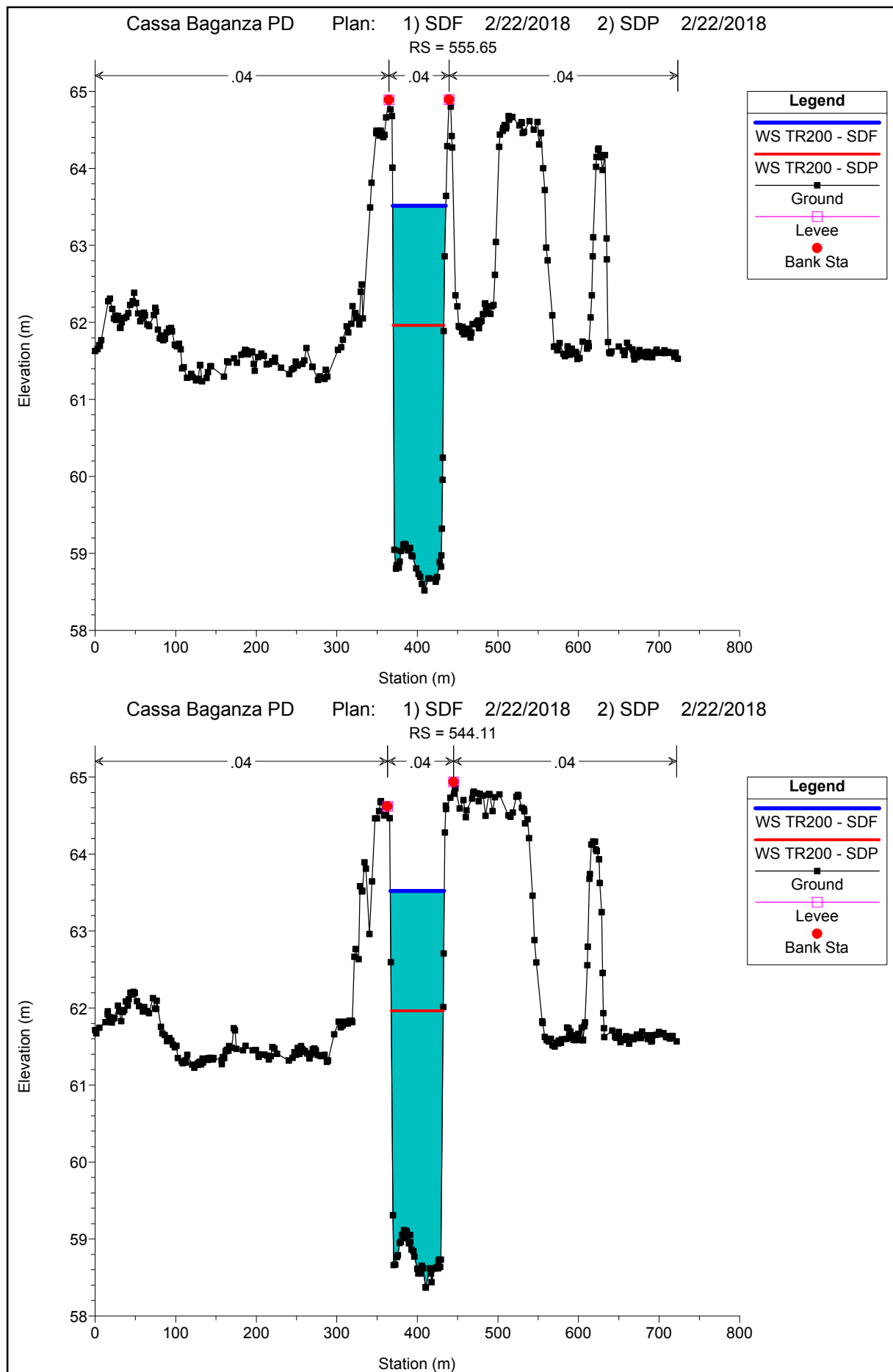


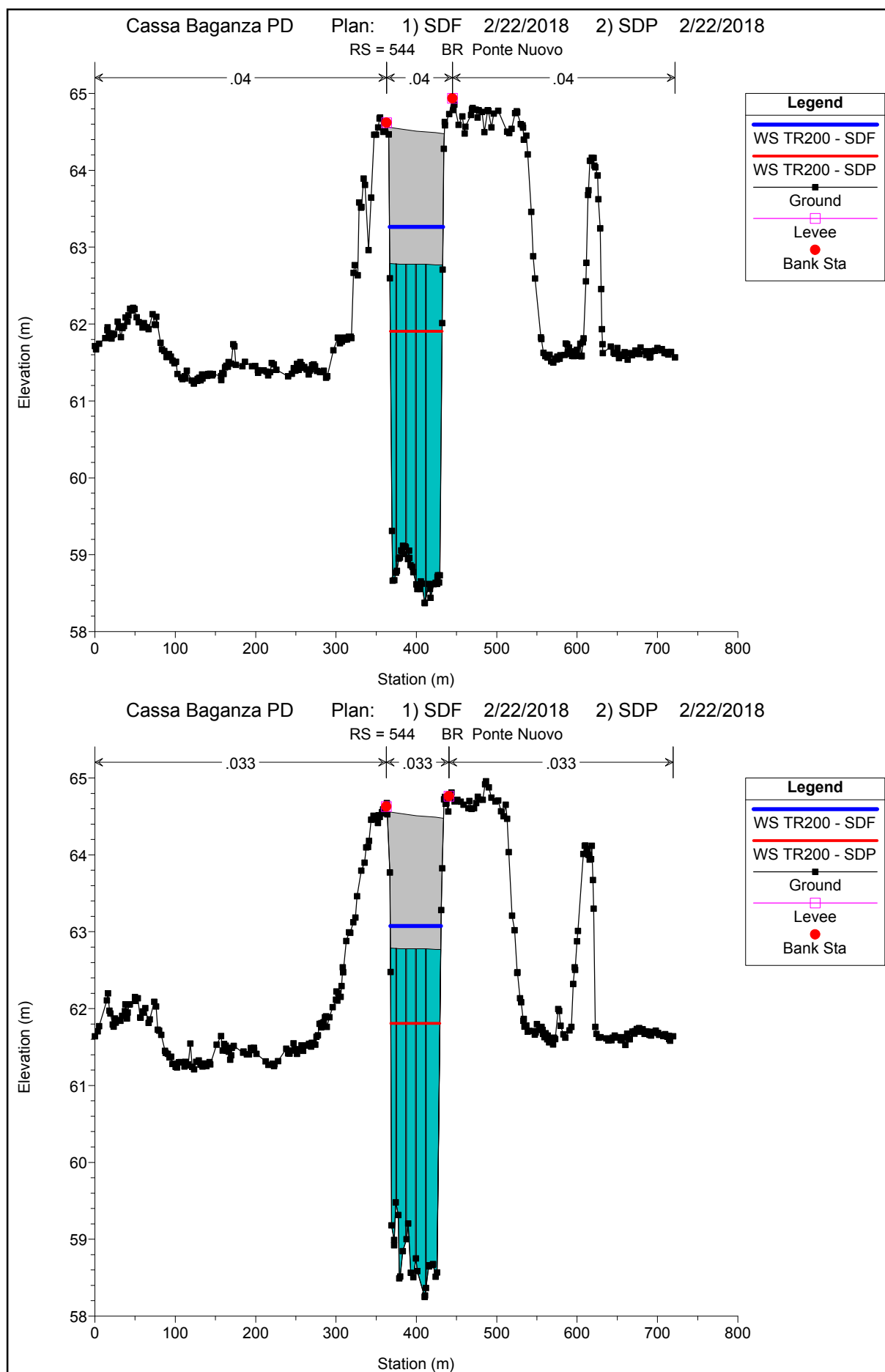




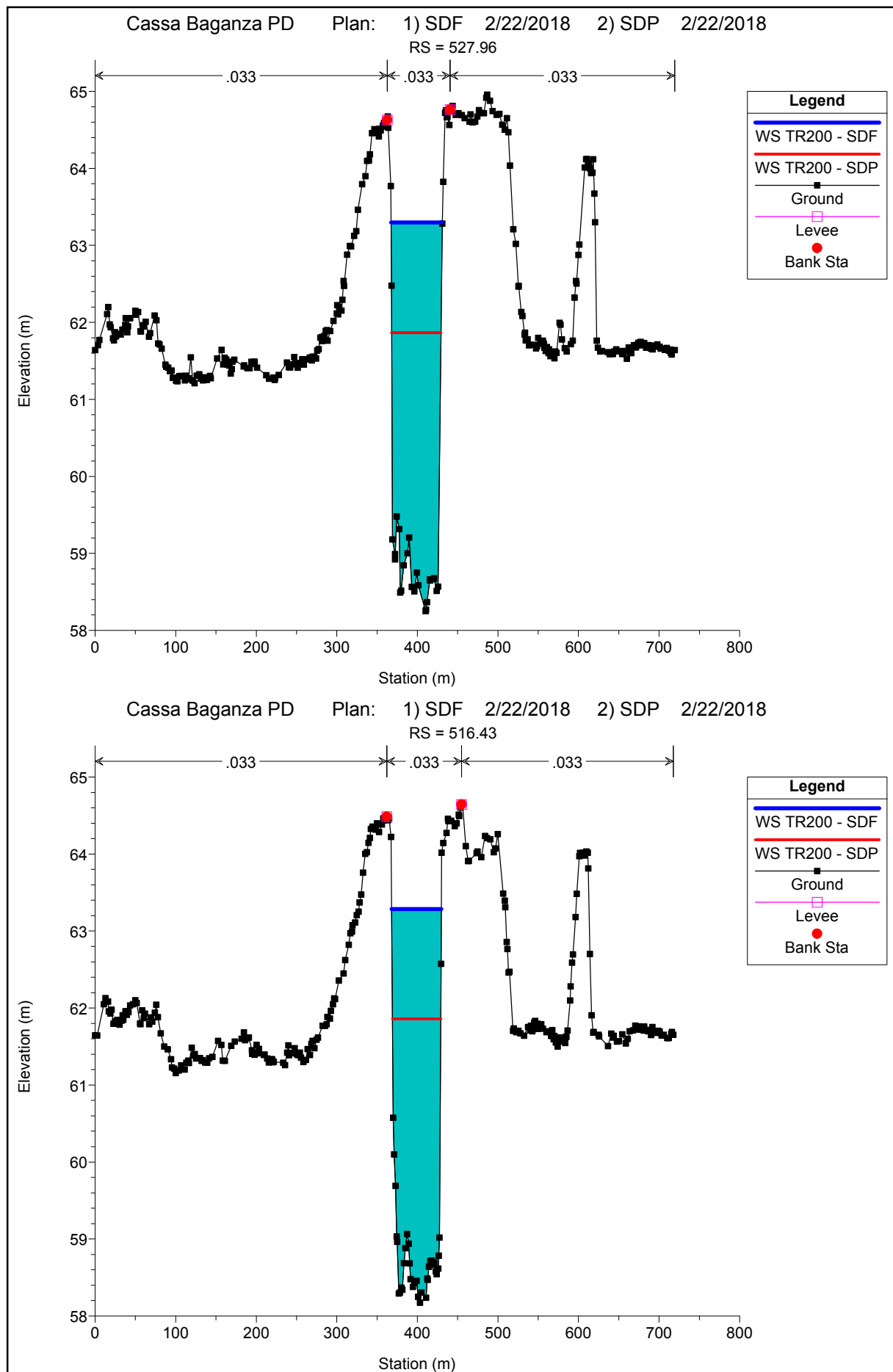


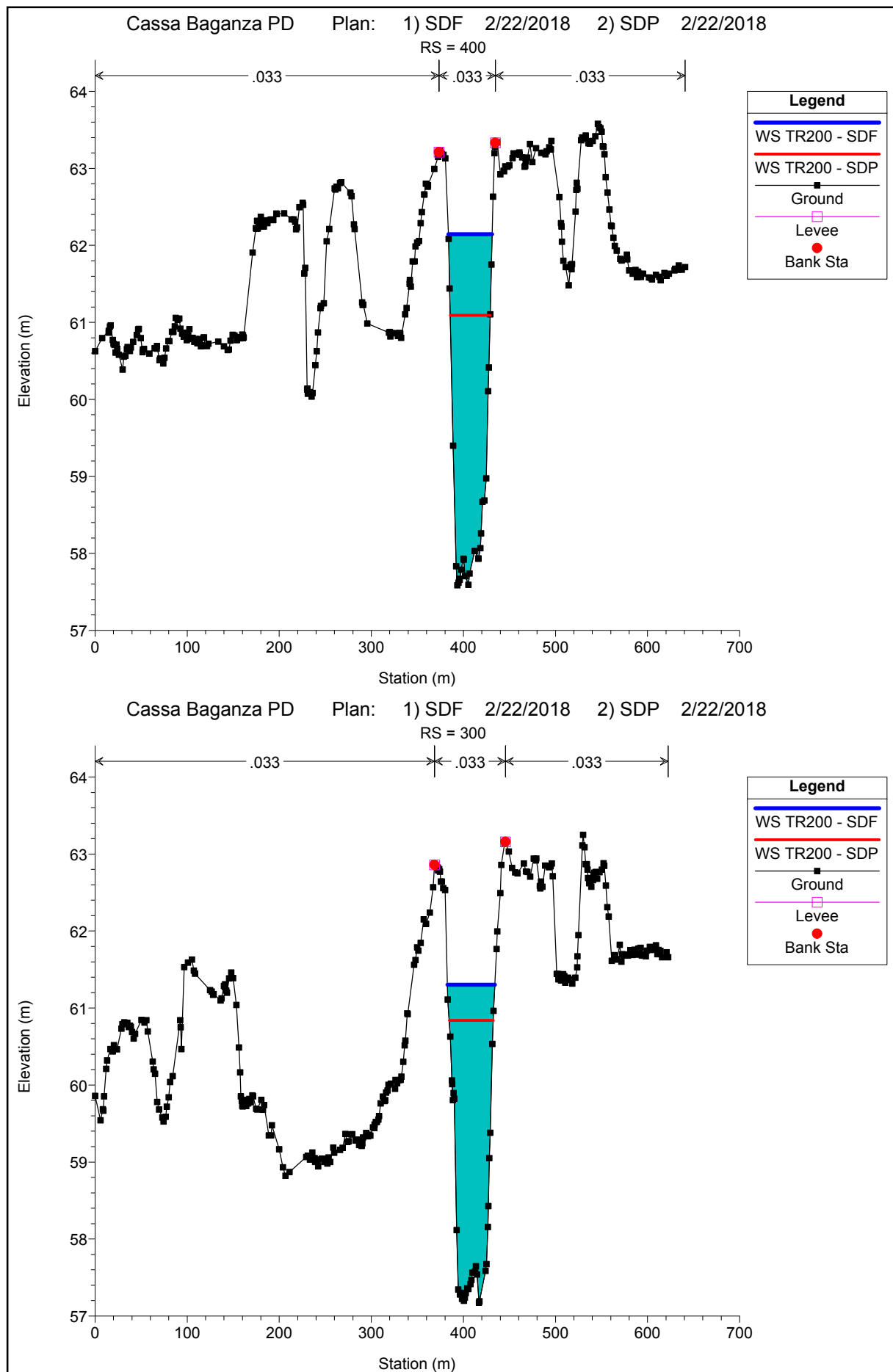


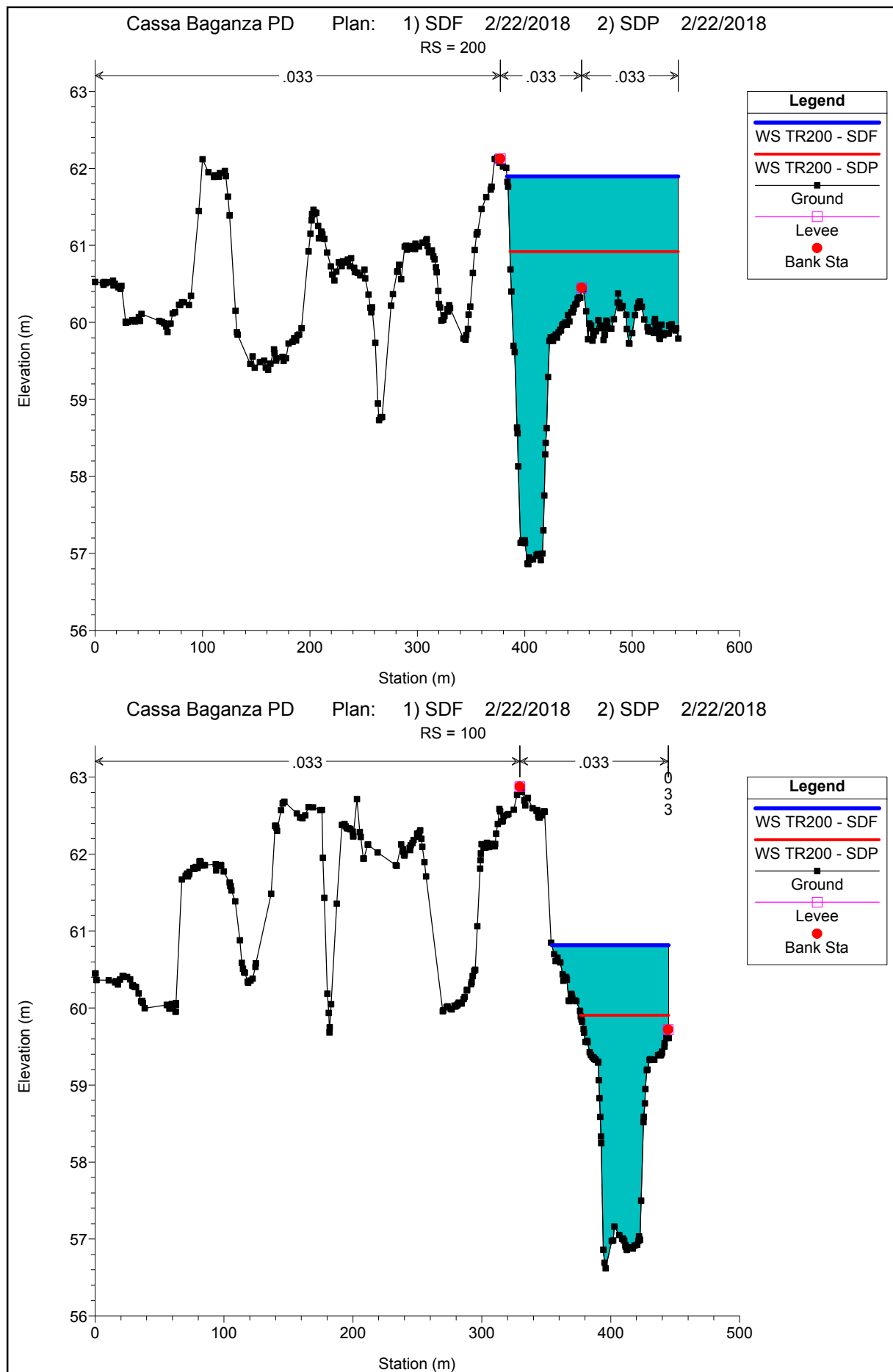


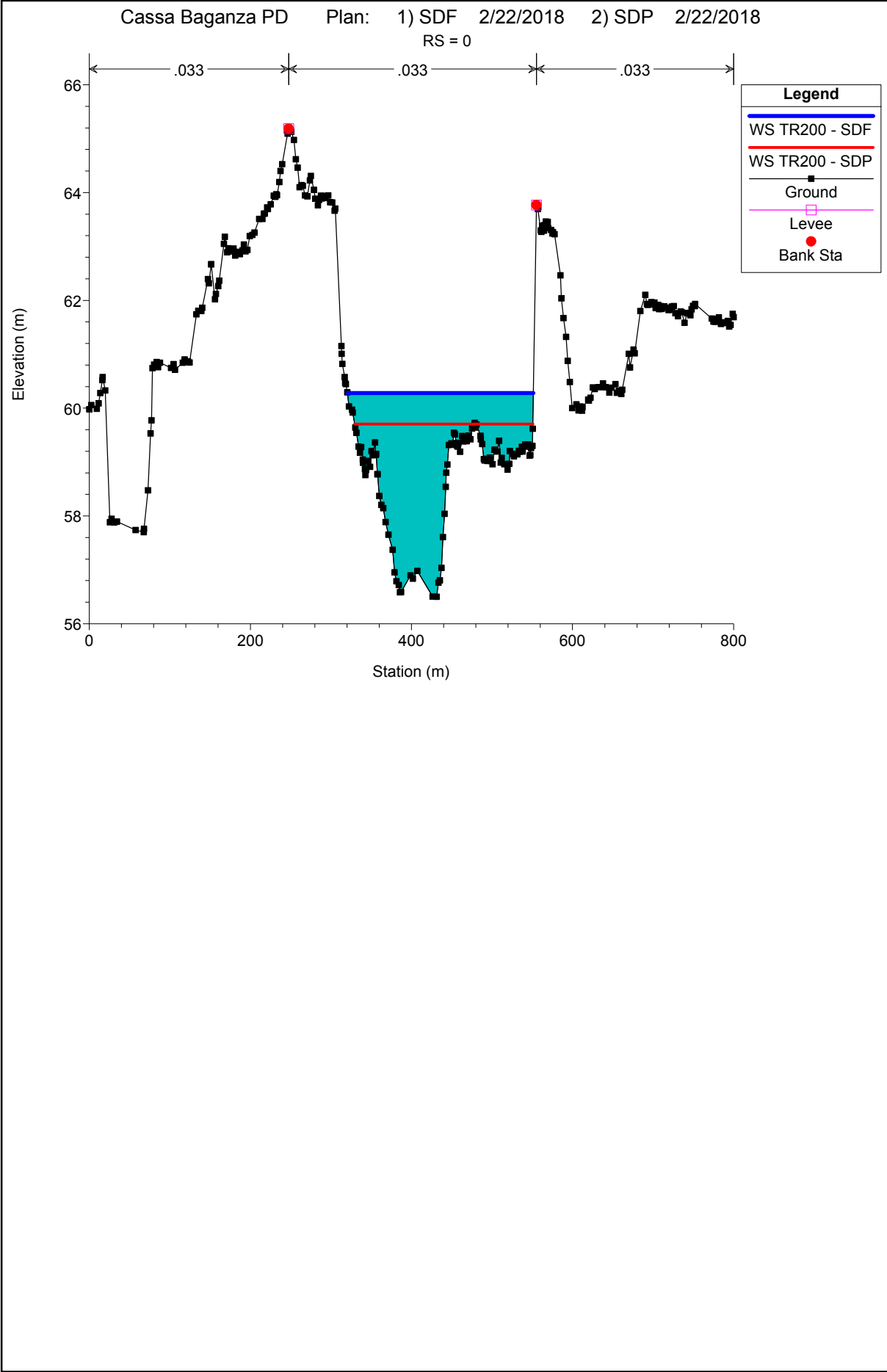












## APPENDICE 4

### PROFILI DI MOTO PERMANENTE – TORRENTE PARMA

#### STATO DI FATTO

Portate al colmo								
TR BAG	5	10	20	50	100	200	500	1000
Qmax (mc/s) BAG	227	306	397	542	676	835		
Qmax (mc/s) PRmonte	350	350	350	350	350	350		
Qmax (mc/s) PRvalle	577	656	747	892	1026	1185		

HEC-RAS Plan: Steady\_SDF\_PR

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
Monte	47982.47	TR5	350.00	88.27	90.36	90.36	90.90	0.016586	3.26	107.27	99.52	1.00
Monte	47982.47	TR10	350.00	88.27	90.36	90.36	90.90	0.016586	3.26	107.27	99.52	1.00
Monte	47982.47	TR20	350.00	88.27	90.36	90.36	90.90	0.016586	3.26	107.27	99.52	1.00
Monte	47982.47	TR50	350.00	88.27	90.36	90.36	90.90	0.016586	3.26	107.27	99.52	1.00
Monte	47982.47	TR100	350.00	88.27	90.36	90.36	90.90	0.016586	3.26	107.27	99.52	1.00
Monte	47982.47	TR200	350.00	88.27	90.36	90.36	90.90	0.016586	3.26	107.27	99.52	1.00
Monte	47843.24	TR5	350.00	87.71	89.80	89.22	89.96	0.003471	1.81	193.65	135.01	0.48
Monte	47843.24	TR10	350.00	87.71	89.80	89.22	89.96	0.003471	1.81	193.65	135.01	0.48
Monte	47843.24	TR20	350.00	87.71	89.80	89.22	89.96	0.003471	1.81	193.65	135.01	0.48
Monte	47843.24	TR50	350.00	87.71	89.80	89.22	89.96	0.003471	1.81	193.65	135.01	0.48
Monte	47843.24	TR100	350.00	87.71	89.80	89.22	89.96	0.003471	1.81	193.65	135.01	0.48
Monte	47843.24	TR200	350.00	87.71	89.80	89.22	89.96	0.003471	1.81	193.65	135.01	0.48
Monte	47764.85	TR5	350.00	87.71	89.47	88.97	89.66	0.004262	1.96	178.27	128.10	0.53
Monte	47764.85	TR10	350.00	87.71	89.47	88.97	89.66	0.004262	1.96	178.27	128.10	0.53
Monte	47764.85	TR20	350.00	87.71	89.47	88.97	89.66	0.004262	1.96	178.27	128.10	0.53
Monte	47764.85	TR50	350.00	87.71	89.47	88.97	89.66	0.004262	1.96	178.27	128.10	0.53
Monte	47764.85	TR100	350.00	87.71	89.47	88.97	89.66	0.004262	1.96	178.27	128.10	0.53
Monte	47764.85	TR200	350.00	87.71	89.47	88.97	89.66	0.004262	1.96	178.27	128.10	0.53
Monte	47654.46	TR5	350.00	87.10	88.92	88.50	89.14	0.005270	2.05	171.09	135.28	0.58
Monte	47654.46	TR10	350.00	87.10	88.92	88.50	89.14	0.005270	2.05	171.09	135.28	0.58
Monte	47654.46	TR20	350.00	87.10	88.92	88.50	89.14	0.005270	2.05	171.09	135.28	0.58
Monte	47654.46	TR50	350.00	87.10	88.92	88.50	89.14	0.005270	2.05	171.09	135.28	0.58
Monte	47654.46	TR100	350.00	87.10	88.92	88.50	89.14	0.005270	2.05	171.09	135.28	0.58
Monte	47654.46	TR200	350.00	87.10	88.92	88.50	89.14	0.005270	2.05	171.09	135.28	0.58
Monte	47547.89	TR5	350.00	86.73	88.74	88.01	88.83	0.001770	1.35	272.21	205.47	0.35
Monte	47547.89	TR10	350.00	86.73	88.74	88.01	88.83	0.001770	1.35	272.21	205.47	0.35
Monte	47547.89	TR20	350.00	86.73	88.74	88.01	88.83	0.001770	1.35	272.21	205.47	0.35
Monte	47547.89	TR50	350.00	86.73	88.74	88.01	88.83	0.001770	1.35	272.21	205.47	0.35
Monte	47547.89	TR100	350.00	86.73	88.74	88.01	88.83	0.001770	1.35	272.21	205.47	0.35
Monte	47547.89	TR200	350.00	86.73	88.74	88.01	88.83	0.001770	1.35	272.21	205.47	0.35
Monte	47447.27	TR5	350.00	86.63	88.61	87.74	88.68	0.001314	1.19	301.16	200.02	0.30
Monte	47447.27	TR10	350.00	86.63	88.61	87.74	88.68	0.001314	1.19	301.16	200.02	0.30
Monte	47447.27	TR20	350.00	86.63	88.61	87.74	88.68	0.001314	1.19	301.16	200.02	0.30
Monte	47447.27	TR50	350.00	86.63	88.61	87.74	88.68	0.001314	1.19	301.16	200.02	0.30
Monte	47447.27	TR100	350.00	86.63	88.61	87.74	88.68	0.001314	1.19	301.16	200.02	0.30
Monte	47447.27	TR200	350.00	86.63	88.61	87.74	88.68	0.001314	1.19	301.16	200.02	0.30
Monte	47344.44	TR5	350.00	86.52	88.46	87.61	88.54	0.001394	1.22	292.41	191.47	0.31
Monte	47344.44	TR10	350.00	86.52	88.46	87.61	88.54	0.001394	1.22	292.41	191.47	0.31
Monte	47344.44	TR20	350.00	86.52	88.46	87.61	88.54	0.001394	1.22	292.41	191.47	0.31
Monte	47344.44	TR50	350.00	86.52	88.46	87.61	88.54	0.001394	1.22	292.41	191.47	0.31
Monte	47344.44	TR100	350.00	86.52	88.46	87.61	88.54	0.001394	1.22	292.41	191.47	0.31
Monte	47344.44	TR200	350.00	86.52	88.46	87.61	88.54	0.001394	1.22	292.41	191.47	0.31
Monte	47204.2	TR5	350.00	86.02	88.02	87.48	88.23	0.003971	2.09	179.31	147.76	0.53
Monte	47204.2	TR10	350.00	86.02	88.02	87.48	88.23	0.003971	2.09	179.31	147.76	0.53
Monte	47204.2	TR20	350.00	86.02	88.02	87.48	88.23	0.003971	2.09	179.31	147.76	0.53
Monte	47204.2	TR50	350.00	86.02	88.02	87.48	88.23	0.003971	2.09	179.31	147.76	0.53
Monte	47204.2	TR100	350.00	86.02	88.02	87.48	88.23	0.003971	2.09	179.31	147.76	0.53
Monte	47204.2	TR200	350.00	86.02	88.02	87.48	88.23	0.003971	2.09	179.31	147.76	0.53
Monte	47077.45	TR5	350.00	85.33	86.85	86.85	87.32	0.017049	3.04	115.33	122.86	1.00
Monte	47077.45	TR10	350.00	85.33	86.85	86.85	87.32	0.017049	3.04	115.33	122.86	1.00
Monte	47077.45	TR20	350.00	85.33	86.85	86.85	87.32	0.017049	3.04	115.33	122.86	1.00
Monte	47077.45	TR50	350.00	85.33	86.85	86.85	87.32	0.017049	3.04	115.33	122.86	1.00
Monte	47077.45	TR100	350.00	85.33	86.85	86.85	87.32	0.017049	3.04	115.33	122.86	1.00
Monte	47077.45	TR200	350.00	85.33	86.85	86.85	87.32	0.017049	3.04	115.33	122.86	1.00
Monte	47042.25	TR5	350.00	83.44	86.02	85.44	86.22	0.003899	2.03	174.70	122.59	0.52
Monte	47042.25	TR10	350.00	83.44	86.02	85.44	86.22	0.003899	2.03	174.70	122.59	0.52
Monte	47042.25	TR20	350.00	83.44	86.02	85.44	86.22	0.003899	2.03	174.70	122.59	0.52
Monte	47042.25	TR50	350.00	83.44	86.02	85.44	86.22	0.003899	2.03	174.70	122.59	0.52
Monte	47042.25	TR100	350.00	83.44	86.02	85.44	86.22	0.003899	2.03	174.70	122.59	0.52
Monte	47042.25	TR200	350.00	83.44	86.02	85.44	86.22	0.003899	2.03	174.70	122.59	0.52
Monte	46972.41	TR5	350.00	82.94	85.64	85.38	85.90	0.005559	2.39	165.89	151.03	0.62
Monte	46972.41	TR10	350.00	82.94	85.64	85.38	85.90	0.005559	2.39	165.89	151.03	0.62
Monte	46972.41	TR20	350.00	82.94	85.64	85.38	85.90	0.005559	2.39	165.89	151.03	0.62
Monte	46972.41	TR50	350.00	82.94	85.64	85.38	85.90	0.005559	2.39	165.89	151.03	0.62
Monte	46972.41	TR100	350.00	82.94	85.64	85.38	85.90	0.005559	2.39	165.89	151.03	0.62
Monte	46972.41	TR200	350.00	82.94	85.64	85.38	85.90	0.005559	2.39	165.89	151.03	0.62
Monte	46845.01	TR5	350.00	82.79	84.87	84.60	85.16	0.006478	2.45	156.11	144.68	0.66
Monte	46845.01	TR10	350.00	82.79	84.87	84.60	85.16	0.006478	2.45	156.11	144.68	0.66
Monte	46845.01	TR20	350.00	82.79	84.87	84.60	85.16	0.006478	2.45	156.11	144.68	0.66
Monte	46845.01	TR50	350.00	82.79	84.87	84.60	85.16	0.006478	2.45	156.11	144.68	0.66
Monte	46845.01	TR100	350.00	82.79	84.87	84.60	85.16	0.006478	2.45	156.11	144.68	0.66
Monte	46845.01	TR200	350.00	82.79	84.87	84.60	85.16	0.006478	2.45	156.11	144.68	0.66

HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	46764.31	TR5	350.00	82.19	84.38	84.03	84.65	0.006200	2.31	154.49	131.14	0.64
Monte	46764.31	TR10	350.00	82.19	84.38	84.03	84.65	0.006200	2.31	154.49	131.14	0.64
Monte	46764.31	TR20	350.00	82.19	84.38	84.03	84.65	0.006200	2.31	154.49	131.14	0.64
Monte	46764.31	TR50	350.00	82.19	84.38	84.03	84.65	0.006200	2.31	154.49	131.14	0.64
Monte	46764.31	TR100	350.00	82.19	84.38	84.03	84.65	0.006200	2.31	154.49	131.14	0.64
Monte	46764.31	TR200	350.00	82.19	84.38	84.03	84.65	0.006200	2.31	154.49	131.14	0.64
Monte	46666.52	TR5	350.00	81.52	83.86	83.42	84.10	0.005055	2.20	161.81	121.10	0.58
Monte	46666.52	TR10	350.00	81.52	83.86	83.42	84.10	0.005055	2.20	161.81	121.10	0.58
Monte	46666.52	TR20	350.00	81.52	83.86	83.42	84.10	0.005055	2.20	161.81	121.10	0.58
Monte	46666.52	TR50	350.00	81.52	83.86	83.42	84.10	0.005055	2.20	161.81	121.10	0.58
Monte	46666.52	TR100	350.00	81.52	83.86	83.42	84.10	0.005055	2.20	161.81	121.10	0.58
Monte	46666.52	TR200	350.00	81.52	83.86	83.42	84.10	0.005055	2.20	161.81	121.10	0.58
Monte	46569.93	TR5	350.00	81.21	83.26	82.96	83.55	0.006563	2.45	149.11	116.21	0.66
Monte	46569.93	TR10	350.00	81.21	83.26	82.96	83.55	0.006563	2.45	149.11	116.21	0.66
Monte	46569.93	TR20	350.00	81.21	83.26	82.96	83.55	0.006563	2.45	149.11	116.21	0.66
Monte	46569.93	TR50	350.00	81.21	83.26	82.96	83.55	0.006563	2.45	149.11	116.21	0.66
Monte	46569.93	TR100	350.00	81.21	83.26	82.96	83.55	0.006563	2.45	149.11	116.21	0.66
Monte	46569.93	TR200	350.00	81.21	83.26	82.96	83.55	0.006563	2.45	149.11	116.21	0.66
Monte	46465.09	TR5	350.00	80.15	82.76	82.28	82.99	0.004534	2.19	164.19	111.63	0.56
Monte	46465.09	TR10	350.00	80.15	82.76	82.28	82.99	0.004534	2.19	164.19	111.63	0.56
Monte	46465.09	TR20	350.00	80.15	82.76	82.28	82.99	0.004534	2.19	164.19	111.63	0.56
Monte	46465.09	TR50	350.00	80.15	82.76	82.28	82.99	0.004534	2.19	164.19	111.63	0.56
Monte	46465.09	TR100	350.00	80.15	82.76	82.28	82.99	0.004534	2.19	164.19	111.63	0.56
Monte	46465.09	TR200	350.00	80.15	82.76	82.28	82.99	0.004534	2.19	164.19	111.63	0.56
Monte	46355.51	TR5	350.00	79.69	82.22	81.79	82.46	0.005257	2.16	162.11	117.82	0.59
Monte	46355.51	TR10	350.00	79.69	82.22	81.79	82.46	0.005257	2.16	162.11	117.82	0.59
Monte	46355.51	TR20	350.00	79.69	82.22	81.79	82.46	0.005257	2.16	162.11	117.82	0.59
Monte	46355.51	TR50	350.00	79.69	82.22	81.79	82.46	0.005257	2.16	162.11	117.82	0.59
Monte	46355.51	TR100	350.00	79.69	82.22	81.79	82.46	0.005257	2.16	162.11	117.82	0.59
Monte	46355.51	TR200	350.00	79.69	82.22	81.79	82.46	0.005257	2.16	162.11	117.82	0.59
Monte	46230.73	TR5	350.00	78.84	81.54	81.13	81.79	0.005440	2.22	157.79	113.40	0.60
Monte	46230.73	TR10	350.00	78.84	81.54	81.13	81.79	0.005440	2.22	157.79	113.40	0.60
Monte	46230.73	TR20	350.00	78.84	81.54	81.13	81.79	0.005440	2.22	157.79	113.40	0.60
Monte	46230.73	TR50	350.00	78.84	81.54	81.13	81.79	0.005440	2.22	157.79	113.40	0.60
Monte	46230.73	TR100	350.00	78.84	81.54	81.13	81.79	0.005440	2.22	157.79	113.40	0.60
Monte	46230.73	TR200	350.00	78.84	81.54	81.13	81.79	0.005440	2.22	157.79	113.40	0.60
Monte	46142.84	TR5	350.00	78.43	81.18	80.55	81.40	0.003745	2.06	169.93	102.45	0.51
Monte	46142.84	TR10	350.00	78.43	81.18	80.55	81.40	0.003745	2.06	169.93	102.45	0.51
Monte	46142.84	TR20	350.00	78.43	81.18	80.55	81.40	0.003745	2.06	169.93	102.45	0.51
Monte	46142.84	TR50	350.00	78.43	81.18	80.55	81.40	0.003745	2.06	169.93	102.45	0.51
Monte	46142.84	TR100	350.00	78.43	81.18	80.55	81.40	0.003745	2.06	169.93	102.45	0.51
Monte	46142.84	TR200	350.00	78.43	81.18	80.55	81.40	0.003745	2.06	169.93	102.45	0.51
Monte	46049.3	TR5	350.00	78.07	80.83	80.09	81.07	0.003313	2.18	162.01	86.40	0.49
Monte	46049.3	TR10	350.00	78.07	80.83	80.09	81.07	0.003313	2.18	162.01	86.40	0.49
Monte	46049.3	TR20	350.00	78.07	80.83	80.09	81.07	0.003313	2.18	162.01	86.40	0.49
Monte	46049.3	TR50	350.00	78.07	80.83	80.09	81.07	0.003313	2.18	162.01	86.40	0.49
Monte	46049.3	TR100	350.00	78.07	80.83	80.09	81.07	0.003313	2.18	162.01	86.40	0.49
Monte	46049.3	TR200	350.00	78.07	80.83	80.09	81.07	0.003313	2.18	162.01	86.40	0.49
Monte	45953.89	TR5	350.00	77.44	80.48	79.83	80.73	0.003898	2.24	158.64	94.57	0.53
Monte	45953.89	TR10	350.00	77.44	80.48	79.83	80.73	0.003898	2.24	158.64	94.57	0.53
Monte	45953.89	TR20	350.00	77.44	80.48	79.83	80.73	0.003898	2.24	158.64	94.57	0.53
Monte	45953.89	TR50	350.00	77.44	80.48	79.83	80.73	0.003898	2.24	158.64	94.57	0.53
Monte	45953.89	TR100	350.00	77.44	80.48	79.83	80.73	0.003898	2.24	158.64	94.57	0.53
Monte	45953.89	TR200	350.00	77.44	80.48	79.83	80.73	0.003898	2.24	158.64	94.57	0.53
Monte	45860.55	TR5	350.00	77.53	79.77	79.50	80.23	0.007782	3.02	118.57	78.11	0.74
Monte	45860.55	TR10	350.00	77.53	79.77	79.50	80.23	0.007782	3.02	118.57	78.11	0.74
Monte	45860.55	TR20	350.00	77.53	79.77	79.50	80.23	0.007782	3.02	118.57	78.11	0.74
Monte	45860.55	TR50	350.00	77.53	79.77	79.50	80.23	0.007782	3.02	118.57	78.11	0.74
Monte	45860.55	TR100	350.00	77.53	79.77	79.50	80.23	0.007782	3.02	118.57	78.11	0.74
Monte	45860.55	TR200	350.00	77.53	79.77	79.50	80.23	0.007782	3.02	118.57	78.11	0.74
Monte	45744.79	TR5	350.00	76.47	78.94	78.64	79.31	0.008014	2.72	128.50	88.94	0.72
Monte	45744.79	TR10	350.00	76.47	78.94	78.64	79.31	0.008014	2.72	128.50	88.94	0.72
Monte	45744.79	TR20	350.00	76.47	78.94	78.64	79.31	0.008014	2.72	128.50	88.94	0.72
Monte	45744.79	TR50	350.00	76.47	78.94	78.64	79.31	0.008014	2.72	128.50	88.94	0.72
Monte	45744.79	TR100	350.00	76.47	78.94	78.64	79.31	0.008014	2.72	128.50	88.94	0.72
Monte	45744.79	TR200	350.00	76.47	78.94	78.64	79.31	0.008014	2.72	128.50	88.94	0.72
Monte	45632.33	TR5	350.00	76.14	78.52	77.99	78.72	0.003796	1.98	181.36	126.11	0.51
Monte	45632.33	TR10	350.00	76.14	78.52	77.99	78.72	0.003796	1.98	181.36	126.11	0.51
Monte	45632.33	TR20	350.00	76.14	78.52	77.99	78.72	0.003796	1.98	181.36	126.11	0.51
Monte	45632.33	TR50	350.00	76.14	78.52	77.99	78.72	0.003796	1.98	181.36	126.11	0.51
Monte	45632.33	TR100	350.00	76.14	78.52	77.99	78.72	0.003796	1.98	181.36	126.11	0.51

HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	45632.33	TR200	350.00	76.14	78.52	77.99	78.72	0.003796	1.98	181.36	126.11	0.51
Monte	45541.71	TR5	350.00	75.59	77.84	77.69	78.20	0.009602	2.67	135.17	125.21	0.78
Monte	45541.71	TR10	350.00	75.59	77.84	77.69	78.20	0.009602	2.67	135.17	125.21	0.78
Monte	45541.71	TR20	350.00	75.59	77.84	77.69	78.20	0.009602	2.67	135.17	125.21	0.78
Monte	45541.71	TR50	350.00	75.59	77.84	77.69	78.20	0.009602	2.67	135.17	125.21	0.78
Monte	45541.71	TR100	350.00	75.59	77.84	77.69	78.20	0.009602	2.67	135.17	125.21	0.78
Monte	45541.71	TR200	350.00	75.59	77.84	77.69	78.20	0.009602	2.67	135.17	125.21	0.78
Monte	45445.81	TR5	350.00	75.03	77.48	76.84	77.69	0.003376	2.02	179.36	127.00	0.49
Monte	45445.81	TR10	350.00	75.03	77.48	76.84	77.69	0.003376	2.02	179.36	127.00	0.49
Monte	45445.81	TR20	350.00	75.03	77.48	76.84	77.69	0.003376	2.02	179.36	127.00	0.49
Monte	45445.81	TR50	350.00	75.03	77.48	76.84	77.69	0.003376	2.02	179.36	127.00	0.49
Monte	45445.81	TR100	350.00	75.03	77.48	76.84	77.69	0.003376	2.02	179.36	127.00	0.49
Monte	45445.81	TR200	350.00	75.03	77.48	76.84	77.69	0.003376	2.02	179.36	127.00	0.49
Monte	45348.3	TR5	350.00	74.23	77.11	76.40	77.36	0.003302	2.25	164.44	95.31	0.50
Monte	45348.3	TR10	350.00	74.23	77.11	76.40	77.36	0.003302	2.25	164.44	95.31	0.50
Monte	45348.3	TR20	350.00	74.23	77.11	76.40	77.36	0.003302	2.25	164.44	95.31	0.50
Monte	45348.3	TR50	350.00	74.23	77.11	76.40	77.36	0.003302	2.25	164.44	95.31	0.50
Monte	45348.3	TR100	350.00	74.23	77.11	76.40	77.36	0.003302	2.25	164.44	95.31	0.50
Monte	45348.3	TR200	350.00	74.23	77.11	76.40	77.36	0.003302	2.25	164.44	95.31	0.50
Monte	45243.66	TR5	350.00	73.80	76.38	76.02	76.86	0.007469	3.08	114.35	70.47	0.73
Monte	45243.66	TR10	350.00	73.80	76.38	76.02	76.86	0.007469	3.08	114.35	70.47	0.73
Monte	45243.66	TR20	350.00	73.80	76.38	76.02	76.86	0.007469	3.08	114.35	70.47	0.73
Monte	45243.66	TR50	350.00	73.80	76.38	76.02	76.86	0.007469	3.08	114.35	70.47	0.73
Monte	45243.66	TR100	350.00	73.80	76.38	76.02	76.86	0.007469	3.08	114.35	70.47	0.73
Monte	45243.66	TR200	350.00	73.80	76.38	76.02	76.86	0.007469	3.08	114.35	70.47	0.73
Monte	45151.81	TR5	350.00	73.60	76.19	75.56	76.42	0.003384	2.18	170.14	103.17	0.50
Monte	45151.81	TR10	350.00	73.60	76.19	75.56	76.42	0.003384	2.18	170.14	103.17	0.50
Monte	45151.81	TR20	350.00	73.60	76.19	75.56	76.42	0.003384	2.18	170.14	103.17	0.50
Monte	45151.81	TR50	350.00	73.60	76.19	75.56	76.42	0.003384	2.18	170.14	103.17	0.50
Monte	45151.81	TR100	350.00	73.60	76.19	75.56	76.42	0.003384	2.18	170.14	103.17	0.50
Monte	45151.81	TR200	350.00	73.60	76.19	75.56	76.42	0.003384	2.18	170.14	103.17	0.50
Monte	45050.27	TR5	350.00	72.82	75.36	75.21	75.90	0.008940	3.28	114.08	105.95	0.80
Monte	45050.27	TR10	350.00	72.82	75.36	75.21	75.90	0.008940	3.28	114.08	105.95	0.80
Monte	45050.27	TR20	350.00	72.82	75.36	75.21	75.90	0.008940	3.28	114.08	105.95	0.80
Monte	45050.27	TR50	350.00	72.82	75.36	75.21	75.90	0.008940	3.28	114.08	105.95	0.80
Monte	45050.27	TR100	350.00	72.82	75.36	75.21	75.90	0.008940	3.28	114.08	105.95	0.80
Monte	45050.27	TR200	350.00	72.82	75.36	75.21	75.90	0.008940	3.28	114.08	105.95	0.80
Monte	44949.02	TR5	350.00	72.49	74.66	74.58	75.04	0.007976	2.88	142.66	153.88	0.74
Monte	44949.02	TR10	350.00	72.49	74.66	74.58	75.04	0.007976	2.88	142.66	153.88	0.74
Monte	44949.02	TR20	350.00	72.49	74.66	74.58	75.04	0.007976	2.88	142.66	153.88	0.74
Monte	44949.02	TR50	350.00	72.49	74.66	74.58	75.04	0.007976	2.88	142.66	153.88	0.74
Monte	44949.02	TR100	350.00	72.49	74.66	74.58	75.04	0.007976	2.88	142.66	153.88	0.74
Monte	44949.02	TR200	350.00	72.49	74.66	74.58	75.04	0.007976	2.88	142.66	153.88	0.74
Monte	44858.92	TR5	350.00	71.97	74.15	73.95	74.43	0.006532	2.66	159.79	156.58	0.67
Monte	44858.92	TR10	350.00	71.97	74.15	73.95	74.43	0.006532	2.66	159.79	156.58	0.67
Monte	44858.92	TR20	350.00	71.97	74.15	73.95	74.43	0.006532	2.66	159.79	156.58	0.67
Monte	44858.92	TR50	350.00	71.97	74.15	73.95	74.43	0.006532	2.66	159.79	156.58	0.67
Monte	44858.92	TR100	350.00	71.97	74.15	73.95	74.43	0.006532	2.66	159.79	156.58	0.67
Monte	44858.92	TR200	350.00	71.97	74.15	73.95	74.43	0.006532	2.66	159.79	156.58	0.67
Monte	44804.8	TR5	350.00	71.44	73.97	73.54	74.16	0.004056	2.16	189.33	163.52	0.53
Monte	44804.8	TR10	350.00	71.44	73.97	73.54	74.16	0.004056	2.16	189.33	163.52	0.53
Monte	44804.8	TR20	350.00	71.44	73.97	73.54	74.16	0.004056	2.16	189.33	163.52	0.53
Monte	44804.8	TR50	350.00	71.44	73.97	73.54	74.16	0.004056	2.16	189.33	163.52	0.53
Monte	44804.8	TR100	350.00	71.44	73.97	73.54	74.16	0.004056	2.16	189.33	163.52	0.53
Monte	44804.8	TR200	350.00	71.44	73.97	73.54	74.16	0.004056	2.16	189.33	163.52	0.53
Monte	44742.23	TR5	350.00	71.14	73.68	73.28	73.90	0.004756	2.20	175.75	142.64	0.57
Monte	44742.23	TR10	350.00	71.14	73.68	73.28	73.90	0.004756	2.20	175.75	142.64	0.57
Monte	44742.23	TR20	350.00	71.14	73.68	73.28	73.90	0.004756	2.20	175.75	142.64	0.57
Monte	44742.23	TR50	350.00	71.14	73.68	73.28	73.90	0.004756	2.20	175.75	142.64	0.57
Monte	44742.23	TR100	350.00	71.14	73.68	73.28	73.90	0.004756	2.20	175.75	142.64	0.57
Monte	44742.23	TR200	350.00	71.14	73.68	73.28	73.90	0.004756	2.20	175.75	142.64	0.57
Monte	44696.73	TR5	350.00	70.84	73.54	72.96	73.71	0.003454	1.94	196.77	147.79	0.49
Monte	44696.73	TR10	350.00	70.84	73.54	72.96	73.71	0.003454	1.94	196.77	147.79	0.49
Monte	44696.73	TR20	350.00	70.84	73.54	72.96	73.71	0.003454	1.94	196.77	147.79	0.49
Monte	44696.73	TR50	350.00	70.84	73.54	72.96	73.71	0.003454	1.94	196.77	147.79	0.49
Monte	44696.73	TR100	350.00	70.84	73.54	72.96	73.71	0.003454	1.94	196.77	147.79	0.49
Monte	44696.73	TR200	350.00	70.84	73.54	72.96	73.71	0.003454	1.94	196.77	147.79	0.49
Monte	44646.93	TR5	350.00	70.82	73.30	72.93	73.52	0.004503	2.38	173.85	129.77	0.56
Monte	44646.93	TR10	350.00	70.82	73.30	72.93	73.52	0.004503	2.38	173.85	129.77	0.56
Monte	44646.93	TR20	350.00	70.82	73.30	72.93	73.52	0.004503	2.38	173.85	129.77	0.56
Monte	44646.93	TR50	350.00	70.82	73.30	72.93	73.52	0.004503	2.38	173.85	129.77	0.56



HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	44646.93	TR100	350.00	70.82	73.30	72.93	73.52	0.004503	2.38	173.85	129.77	0.56
Monte	44646.93	TR200	350.00	70.82	73.30	72.93	73.52	0.004503	2.38	173.85	129.77	0.56
Monte	44603.08	TR5	350.00	70.84	73.00	72.65	73.30	0.005578	2.52	148.70	103.88	0.62
Monte	44603.08	TR10	350.00	70.84	73.00	72.65	73.30	0.005578	2.52	148.70	103.88	0.62
Monte	44603.08	TR20	350.00	70.84	73.00	72.65	73.30	0.005578	2.52	148.70	103.88	0.62
Monte	44603.08	TR50	350.00	70.84	73.00	72.65	73.30	0.005578	2.52	148.70	103.88	0.62
Monte	44603.08	TR100	350.00	70.84	73.00	72.65	73.30	0.005578	2.52	148.70	103.88	0.62
Monte	44603.08	TR200	350.00	70.84	73.00	72.65	73.30	0.005578	2.52	148.70	103.88	0.62
Monte	44568.47	TR5	350.00	70.58	72.79	72.44	73.09	0.006388	2.44	143.63	101.87	0.65
Monte	44568.47	TR10	350.00	70.58	72.79	72.44	73.09	0.006388	2.44	143.63	101.87	0.65
Monte	44568.47	TR20	350.00	70.58	72.79	72.44	73.09	0.006388	2.44	143.63	101.87	0.65
Monte	44568.47	TR50	350.00	70.58	72.79	72.44	73.09	0.006388	2.44	143.63	101.87	0.65
Monte	44568.47	TR100	350.00	70.58	72.79	72.44	73.09	0.006388	2.44	143.63	101.87	0.65
Monte	44568.47	TR200	350.00	70.58	72.79	72.44	73.09	0.006388	2.44	143.63	101.87	0.65
Monte	44504.42	TR5	350.00	70.14	72.49	72.03	72.75	0.004649	2.31	159.44	111.59	0.57
Monte	44504.42	TR10	350.00	70.14	72.49	72.03	72.75	0.004649	2.31	159.44	111.59	0.57
Monte	44504.42	TR20	350.00	70.14	72.49	72.03	72.75	0.004649	2.31	159.44	111.59	0.57
Monte	44504.42	TR50	350.00	70.14	72.49	72.03	72.75	0.004649	2.31	159.44	111.59	0.57
Monte	44504.42	TR100	350.00	70.14	72.49	72.03	72.75	0.004649	2.31	159.44	111.59	0.57
Monte	44504.42	TR200	350.00	70.14	72.49	72.03	72.75	0.004649	2.31	159.44	111.59	0.57
Monte	44450.17	TR5	350.00	69.58	72.38	71.60	72.56	0.002680	1.93	189.46	116.22	0.44
Monte	44450.17	TR10	350.00	69.58	72.38	71.60	72.56	0.002680	1.93	189.46	116.22	0.44
Monte	44450.17	TR20	350.00	69.58	72.38	71.60	72.56	0.002680	1.93	189.46	116.22	0.44
Monte	44450.17	TR50	350.00	69.58	72.38	71.60	72.56	0.002680	1.93	189.46	116.22	0.44
Monte	44450.17	TR100	350.00	69.58	72.38	71.60	72.56	0.002680	1.93	189.46	116.22	0.44
Monte	44450.17	TR200	350.00	69.58	72.38	71.60	72.56	0.002680	1.93	189.46	116.22	0.44
Monte	44396.32	TR5	350.00	69.38	72.14	71.46	72.41	0.003265	2.35	164.95	105.15	0.50
Monte	44396.32	TR10	350.00	69.38	72.14	71.46	72.41	0.003265	2.35	164.95	105.15	0.50
Monte	44396.32	TR20	350.00	69.38	72.14	71.46	72.41	0.003265	2.35	164.95	105.15	0.50
Monte	44396.32	TR50	350.00	69.38	72.14	71.46	72.41	0.003265	2.35	164.95	105.15	0.50
Monte	44396.32	TR100	350.00	69.38	72.14	71.46	72.41	0.003265	2.35	164.95	105.15	0.50
Monte	44396.32	TR200	350.00	69.38	72.14	71.46	72.41	0.003265	2.35	164.95	105.15	0.50
Monte	44349.68	TR5	350.00	69.23	71.84	71.41	72.20	0.006066	2.68	134.46	95.29	0.65
Monte	44349.68	TR10	350.00	69.23	71.84	71.41	72.20	0.006066	2.68	134.46	95.29	0.65
Monte	44349.68	TR20	350.00	69.23	71.84	71.41	72.20	0.006066	2.68	134.46	95.29	0.65
Monte	44349.68	TR50	350.00	69.23	71.84	71.41	72.20	0.006066	2.68	134.46	95.29	0.65
Monte	44349.68	TR100	350.00	69.23	71.84	71.41	72.20	0.006066	2.68	134.46	95.29	0.65
Monte	44349.68	TR200	350.00	69.23	71.84	71.41	72.20	0.006066	2.68	134.46	95.29	0.65
Monte	44301.74	TR5	350.00	68.75	71.54	71.18	71.91	0.006298	2.78	138.42	113.81	0.67
Monte	44301.74	TR10	350.00	68.75	71.54	71.18	71.91	0.006298	2.78	138.42	113.81	0.67
Monte	44301.74	TR20	350.00	68.75	71.54	71.18	71.91	0.006298	2.78	138.42	113.81	0.67
Monte	44301.74	TR50	350.00	68.75	71.54	71.18	71.91	0.006298	2.78	138.42	113.81	0.67
Monte	44301.74	TR100	350.00	68.75	71.54	71.18	71.91	0.006298	2.78	138.42	113.81	0.67
Monte	44301.74	TR200	350.00	68.75	71.54	71.18	71.91	0.006298	2.78	138.42	113.81	0.67
Monte	44252.61	TR5	350.00	68.38	71.10	70.88	71.56	0.007836	3.06	121.67	93.01	0.74
Monte	44252.61	TR10	350.00	68.38	71.10	70.88	71.56	0.007836	3.06	121.67	93.01	0.74
Monte	44252.61	TR20	350.00	68.38	71.10	70.88	71.56	0.007836	3.06	121.67	93.01	0.74
Monte	44252.61	TR50	350.00	68.38	71.10	70.88	71.56	0.007836	3.06	121.67	93.01	0.74
Monte	44252.61	TR100	350.00	68.38	71.10	70.88	71.56	0.007836	3.06	121.67	93.01	0.74
Monte	44252.61	TR200	350.00	68.38	71.10	70.88	71.56	0.007836	3.06	121.67	93.01	0.74
Monte	44199.93	TR5	350.00	68.22	70.45	70.38	71.06	0.011983	3.46	102.84	76.44	0.90
Monte	44199.93	TR10	350.00	68.22	70.45	70.38	71.06	0.011983	3.46	102.84	76.44	0.90
Monte	44199.93	TR20	350.00	68.22	70.45	70.38	71.06	0.011983	3.46	102.84	76.44	0.90
Monte	44199.93	TR50	350.00	68.22	70.45	70.38	71.06	0.011983	3.46	102.84	76.44	0.90
Monte	44199.93	TR100	350.00	68.22	70.45	70.38	71.06	0.011983	3.46	102.84	76.44	0.90
Monte	44199.93	TR200	350.00	68.22	70.45	70.38	71.06	0.011983	3.46	102.84	76.44	0.90
Monte	44154.07	TR5	350.00	68.14	70.41	69.98	70.71	0.005246	2.46	147.99	104.05	0.61
Monte	44154.07	TR10	350.00	68.14	70.41	69.98	70.71	0.005246	2.46	147.99	104.05	0.61
Monte	44154.07	TR20	350.00	68.14	70.41	69.98	70.71	0.005246	2.46	147.99	104.05	0.61
Monte	44154.07	TR50	350.00	68.14	70.41	69.98	70.71	0.005246	2.46	147.99	104.05	0.61
Monte	44154.07	TR100	350.00	68.14	70.41	69.98	70.71	0.005246	2.46	147.99	104.05	0.61
Monte	44154.07	TR200	350.00	68.14	70.41	69.98	70.71	0.005246	2.46	147.99	104.05	0.61
Monte	44109.12	TR5	350.00	67.59	70.34	69.66	70.53	0.003036	2.01	182.56	108.98	0.47
Monte	44109.12	TR10	350.00	67.59	70.34	69.66	70.53	0.003036	2.01	182.56	108.98	0.47
Monte	44109.12	TR20	350.00	67.59	70.34	69.66	70.53	0.003036	2.01	182.56	108.98	0.47
Monte	44109.12	TR50	350.00	67.59	70.34	69.66	70.53	0.003036	2.01	182.56	108.98	0.47
Monte	44109.12	TR100	350.00	67.59	70.34	69.66	70.53	0.003036	2.01	182.56	108.98	0.47
Monte	44109.12	TR200	350.00	67.59	70.34	69.66	70.53	0.003036	2.01	182.56	108.98	0.47
Monte	44050.35	TR5	350.00	67.33	70.02	69.50	70.31	0.004788	2.43	146.81	88.34	0.58
Monte	44050.35	TR10	350.00	67.33	70.02	69.50	70.31	0.004788	2.43	146.81	88.34	0.58
Monte	44050.35	TR20	350.00	67.33	70.02	69.50	70.31	0.004788	2.43	146.81	88.34	0.58

HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	44050.35	TR50	350.00	67.33	70.02	69.50	70.31	0.004788	2.43	146.81	88.34	0.58
Monte	44050.35	TR100	350.00	67.33	70.02	69.50	70.31	0.004788	2.43	146.81	88.34	0.58
Monte	44050.35	TR200	350.00	67.33	70.02	69.50	70.31	0.004788	2.43	146.81	88.34	0.58
Monte	43985.82	TR5	350.00	67.02	69.42	69.29	69.86	0.011277	2.96	118.44	97.38	0.85
Monte	43985.82	TR10	350.00	67.02	69.42	69.29	69.86	0.011277	2.96	118.44	97.38	0.85
Monte	43985.82	TR20	350.00	67.02	69.42	69.29	69.86	0.011277	2.96	118.44	97.38	0.85
Monte	43985.82	TR50	350.00	67.02	69.42	69.29	69.86	0.011277	2.96	118.44	97.38	0.85
Monte	43985.82	TR100	350.00	67.02	69.42	69.29	69.86	0.011277	2.96	118.44	97.38	0.85
Monte	43985.82	TR200	350.00	67.02	69.42	69.29	69.86	0.011277	2.96	118.44	97.38	0.85
Monte	43940.3	TR5	350.00	66.94	69.00	68.78	69.41	0.008891	2.82	124.27	93.04	0.77
Monte	43940.3	TR10	350.00	66.94	69.00	68.78	69.41	0.008891	2.82	124.27	93.04	0.77
Monte	43940.3	TR20	350.00	66.94	69.00	68.78	69.41	0.008891	2.82	124.27	93.04	0.77
Monte	43940.3	TR50	350.00	66.94	69.00	68.78	69.41	0.008891	2.82	124.27	93.04	0.77
Monte	43940.3	TR100	350.00	66.94	69.00	68.78	69.41	0.008891	2.82	124.27	93.04	0.77
Monte	43940.3	TR200	350.00	66.94	69.00	68.78	69.41	0.008891	2.82	124.27	93.04	0.77
Monte	43876.12	TR5	350.00	66.22	68.82	68.27	69.03	0.004066	2.06	170.16	108.89	0.53
Monte	43876.12	TR10	350.00	66.22	68.82	68.27	69.03	0.004066	2.06	170.16	108.89	0.53
Monte	43876.12	TR20	350.00	66.22	68.82	68.27	69.03	0.004066	2.06	170.16	108.89	0.53
Monte	43876.12	TR50	350.00	66.22	68.82	68.27	69.03	0.004066	2.06	170.16	108.89	0.53
Monte	43876.12	TR100	350.00	66.22	68.82	68.27	69.03	0.004066	2.06	170.16	108.89	0.53
Monte	43876.12	TR200	350.00	66.22	68.82	68.27	69.03	0.004066	2.06	170.16	108.89	0.53
Monte	43832.36	TR5	350.00	65.99	68.63	68.09	68.85	0.004266	2.10	166.93	108.05	0.54
Monte	43832.36	TR10	350.00	65.99	68.63	68.09	68.85	0.004266	2.10	166.93	108.05	0.54
Monte	43832.36	TR20	350.00	65.99	68.63	68.09	68.85	0.004266	2.10	166.93	108.05	0.54
Monte	43832.36	TR50	350.00	65.99	68.63	68.09	68.85	0.004266	2.10	166.93	108.05	0.54
Monte	43832.36	TR100	350.00	65.99	68.63	68.09	68.85	0.004266	2.10	166.93	108.05	0.54
Monte	43832.36	TR200	350.00	65.99	68.63	68.09	68.85	0.004266	2.10	166.93	108.05	0.54
Monte	43786.78	TR5	350.00	66.25	68.46	67.87	68.66	0.003868	2.01	173.77	111.74	0.52
Monte	43786.78	TR10	350.00	66.25	68.46	67.87	68.66	0.003868	2.01	173.77	111.74	0.52
Monte	43786.78	TR20	350.00	66.25	68.46	67.87	68.66	0.003868	2.01	173.77	111.74	0.52
Monte	43786.78	TR50	350.00	66.25	68.46	67.87	68.66	0.003868	2.01	173.77	111.74	0.52
Monte	43786.78	TR100	350.00	66.25	68.46	67.87	68.66	0.003868	2.01	173.77	111.74	0.52
Monte	43786.78	TR200	350.00	66.25	68.46	67.87	68.66	0.003868	2.01	173.77	111.74	0.52
Monte	43737.63	TR5	350.00	65.91	68.29	67.67	68.48	0.003623	1.95	179.67	115.10	0.50
Monte	43737.63	TR10	350.00	65.91	68.29	67.67	68.48	0.003623	1.95	179.67	115.10	0.50
Monte	43737.63	TR20	350.00	65.91	68.29	67.67	68.48	0.003623	1.95	179.67	115.10	0.50
Monte	43737.63	TR50	350.00	65.91	68.29	67.67	68.48	0.003623	1.95	179.67	115.10	0.50
Monte	43737.63	TR100	350.00	65.91	68.29	67.67	68.48	0.003623	1.95	179.67	115.10	0.50
Monte	43737.63	TR200	350.00	65.91	68.29	67.67	68.48	0.003623	1.95	179.67	115.10	0.50
Monte	43689.97	TR5	350.00	65.55	68.06	67.44	68.30	0.003930	2.19	165.10	109.97	0.53
Monte	43689.97	TR10	350.00	65.55	68.06	67.44	68.30	0.003930	2.19	165.10	109.97	0.53
Monte	43689.97	TR20	350.00	65.55	68.06	67.44	68.30	0.003930	2.19	165.10	109.97	0.53
Monte	43689.97	TR50	350.00	65.55	68.06	67.44	68.30	0.003930	2.19	165.10	109.97	0.53
Monte	43689.97	TR100	350.00	65.55	68.06	67.44	68.30	0.003930	2.19	165.10	109.97	0.53
Monte	43689.97	TR200	350.00	65.55	68.06	67.44	68.30	0.003930	2.19	165.10	109.97	0.53
Monte	43643.52	TR5	350.00	65.20	67.91	67.17	68.13	0.003265	2.09	167.18	89.10	0.49
Monte	43643.52	TR10	350.00	65.20	67.91	67.17	68.13	0.003265	2.09	167.18	89.10	0.49
Monte	43643.52	TR20	350.00	65.20	67.91	67.17	68.13	0.003265	2.09	167.18	89.10	0.49
Monte	43643.52	TR50	350.00	65.20	67.91	67.17	68.13	0.003265	2.09	167.18	89.10	0.49
Monte	43643.52	TR100	350.00	65.20	67.91	67.17	68.13	0.003265	2.09	167.18	89.10	0.49
Monte	43643.52	TR200	350.00	65.20	67.91	67.17	68.13	0.003265	2.09	167.18	89.10	0.49
Monte	43596.71	TR5	350.00	65.08	67.83	66.94	68.00	0.002328	1.84	190.50	97.73	0.42
Monte	43596.71	TR10	350.00	65.08	67.83	66.94	68.00	0.002328	1.84	190.50	97.73	0.42
Monte	43596.71	TR20	350.00	65.08	67.83	66.94	68.00	0.002328	1.84	190.50	97.73	0.42
Monte	43596.71	TR50	350.00	65.08	67.83	66.94	68.00	0.002328	1.84	190.50	97.73	0.42
Monte	43596.71	TR100	350.00	65.08	67.83	66.94	68.00	0.002328	1.84	190.50	97.73	0.42
Monte	43596.71	TR200	350.00	65.08	67.83	66.94	68.00	0.002328	1.84	190.50	97.73	0.42
Monte	43547.05	TR5	350.00	64.63	67.75	66.80	67.90	0.001878	1.77	207.96	105.73	0.38
Monte	43547.05	TR10	350.00	64.63	67.75	66.80	67.90	0.001878	1.77	207.96	105.73	0.38
Monte	43547.05	TR20	350.00	64.63	67.75	66.80	67.90	0.001878	1.77	207.96	105.73	0.38
Monte	43547.05	TR50	350.00	64.63	67.75	66.80	67.90	0.001878	1.77	207.96	105.73	0.38
Monte	43547.05	TR100	350.00	64.63	67.75	66.80	67.90	0.001878	1.77	207.96	105.73	0.38
Monte	43547.05	TR200	350.00	64.63	67.75	66.80	67.90	0.001878	1.77	207.96	105.73	0.38
Monte	43507.75	TR5	350.00	64.49	67.71	66.58	67.84	0.001511	1.61	225.21	110.20	0.34
Monte	43507.75	TR10	350.00	64.49	67.71	66.58	67.84	0.001511	1.61	225.21	110.20	0.34
Monte	43507.75	TR20	350.00	64.49	67.71	66.58	67.84	0.001511	1.61	225.21	110.20	0.34
Monte	43507.75	TR50	350.00	64.49	67.71	66.58	67.84	0.001511	1.61	225.21	110.20	0.34
Monte	43507.75	TR100	350.00	64.49	67.71	66.58	67.84	0.001511	1.61	225.21	110.20	0.34
Monte	43507.75	TR200	350.00	64.49	67.71	66.58	67.84	0.001511	1.61	225.21	110.20	0.34
Monte	43450.36	TR5	350.00	64.17	67.62	66.36	67.76	0.001391	1.70	221.73	100.83	0.33
Monte	43450.36	TR10	350.00	64.17	67.62	66.36	67.76	0.001391	1.70	221.73	100.83	0.33

HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	43450.36	TR20	350.00	64.17	67.62	66.36	67.76	0.001391	1.70	221.73	100.83	0.33
Monte	43450.36	TR50	350.00	64.17	67.62	66.36	67.76	0.001391	1.70	221.73	100.83	0.33
Monte	43450.36	TR100	350.00	64.17	67.62	66.36	67.76	0.001391	1.70	221.73	100.83	0.33
Monte	43450.36	TR200	350.00	64.17	67.62	66.36	67.76	0.001391	1.70	221.73	100.83	0.33
Monte	43395.69	TR5	350.00	63.88	67.36	66.53	67.64	0.003299	2.37	153.41	88.03	0.50
Monte	43395.69	TR10	350.00	63.88	67.36	66.53	67.64	0.003299	2.37	153.41	88.03	0.50
Monte	43395.69	TR20	350.00	63.88	67.36	66.53	67.64	0.003299	2.37	153.41	88.03	0.50
Monte	43395.69	TR50	350.00	63.88	67.36	66.53	67.64	0.003299	2.37	153.41	88.03	0.50
Monte	43395.69	TR100	350.00	63.88	67.36	66.53	67.64	0.003299	2.37	153.41	88.03	0.50
Monte	43395.69	TR200	350.00	63.88	67.36	66.53	67.64	0.003299	2.37	153.41	88.03	0.50
Monte	43340.84	TR5	350.00	63.85	67.18	66.49	67.46	0.003475	2.37	154.24	78.65	0.51
Monte	43340.84	TR10	350.00	63.85	67.18	66.49	67.46	0.003475	2.37	154.24	78.65	0.51
Monte	43340.84	TR20	350.00	63.85	67.18	66.49	67.46	0.003475	2.37	154.24	78.65	0.51
Monte	43340.84	TR50	350.00	63.85	67.18	66.49	67.46	0.003475	2.37	154.24	78.65	0.51
Monte	43340.84	TR100	350.00	63.85	67.18	66.49	67.46	0.003475	2.37	154.24	78.65	0.51
Monte	43340.84	TR200	350.00	63.85	67.18	66.49	67.46	0.003475	2.37	154.24	78.65	0.51
Monte	43298.72	TR5	350.00	63.81	67.09	66.27	67.32	0.002973	2.12	168.40	83.40	0.47
Monte	43298.72	TR10	350.00	63.81	67.09	66.27	67.32	0.002973	2.12	168.40	83.40	0.47
Monte	43298.72	TR20	350.00	63.81	67.09	66.27	67.32	0.002973	2.12	168.40	83.40	0.47
Monte	43298.72	TR50	350.00	63.81	67.09	66.27	67.32	0.002973	2.12	168.40	83.40	0.47
Monte	43298.72	TR100	350.00	63.81	67.09	66.27	67.32	0.002973	2.12	168.40	83.40	0.47
Monte	43298.72	TR200	350.00	63.81	67.09	66.27	67.32	0.002973	2.12	168.40	83.40	0.47
Monte	43269.7	TR5	350.00	63.76	67.04	66.08	67.23	0.002304	2.02	182.04	87.91	0.42
Monte	43269.7	TR10	350.00	63.76	67.04	66.08	67.23	0.002304	2.02	182.04	87.91	0.42
Monte	43269.7	TR20	350.00	63.76	67.04	66.08	67.23	0.002304	2.02	182.04	87.91	0.42
Monte	43269.7	TR50	350.00	63.76	67.04	66.08	67.23	0.002304	2.02	182.04	87.91	0.42
Monte	43269.7	TR100	350.00	63.76	67.04	66.08	67.23	0.002304	2.02	182.04	87.91	0.42
Monte	43269.7	TR200	350.00	63.76	67.04	66.08	67.23	0.002304	2.02	182.04	87.91	0.42
Monte	43199.86	TR5	350.00	63.69	66.79	65.94	67.05	0.003043	2.28	159.06	82.55	0.48
Monte	43199.86	TR10	350.00	63.69	66.79	65.94	67.05	0.003043	2.28	159.06	82.55	0.48
Monte	43199.86	TR20	350.00	63.69	66.79	65.94	67.05	0.003043	2.28	159.06	82.55	0.48
Monte	43199.86	TR50	350.00	63.69	66.79	65.94	67.05	0.003043	2.28	159.06	82.55	0.48
Monte	43199.86	TR100	350.00	63.69	66.79	65.94	67.05	0.003043	2.28	159.06	82.55	0.48
Monte	43199.86	TR200	350.00	63.69	66.79	65.94	67.05	0.003043	2.28	159.06	82.55	0.48
Monte	43152.58	TR5	350.00	63.66	66.06	66.03	66.80	0.011349	3.87	94.36	62.22	0.91
Monte	43152.58	TR10	350.00	63.66	66.06	66.03	66.80	0.011349	3.87	94.36	62.22	0.91
Monte	43152.58	TR20	350.00	63.66	66.06	66.03	66.80	0.011349	3.87	94.36	62.22	0.91
Monte	43152.58	TR50	350.00	63.66	66.06	66.03	66.80	0.011349	3.87	94.36	62.22	0.91
Monte	43152.58	TR100	350.00	63.66	66.06	66.03	66.80	0.011349	3.87	94.36	62.22	0.91
Monte	43152.58	TR200	350.00	63.66	66.06	66.03	66.80	0.011349	3.87	94.36	62.22	0.91
Monte	43093.48	TR5	350.00	63.60	66.16	65.35	66.45	0.003653	2.38	147.28	70.15	0.52
Monte	43093.48	TR10	350.00	63.60	66.16	65.35	66.45	0.003653	2.38	147.28	70.15	0.52
Monte	43093.48	TR20	350.00	63.60	66.16	65.35	66.45	0.003653	2.38	147.28	70.15	0.52
Monte	43093.48	TR50	350.00	63.60	66.16	65.35	66.45	0.003653	2.38	147.28	70.15	0.52
Monte	43093.48	TR100	350.00	63.60	66.16	65.35	66.45	0.003653	2.38	147.28	70.15	0.52
Monte	43093.48	TR200	350.00	63.60	66.16	65.35	66.45	0.003653	2.38	147.28	70.15	0.52
Monte	43065.04	TR5	350.00	63.42	66.14	65.08	66.37	0.002443	2.12	164.90	69.35	0.44
Monte	43065.04	TR10	350.00	63.42	66.14	65.08	66.37	0.002443	2.12	164.90	69.35	0.44
Monte	43065.04	TR20	350.00	63.42	66.14	65.08	66.37	0.002443	2.12	164.90	69.35	0.44
Monte	43065.04	TR50	350.00	63.42	66.14	65.08	66.37	0.002443	2.12	164.90	69.35	0.44
Monte	43065.04	TR100	350.00	63.42	66.14	65.08	66.37	0.002443	2.12	164.90	69.35	0.44
Monte	43065.04	TR200	350.00	63.42	66.14	65.08	66.37	0.002443	2.12	164.90	69.35	0.44
Monte	43019.36	TR5	350.00	62.15	66.03	64.77	66.26	0.002162	2.11	166.20	65.60	0.42
Monte	43019.36	TR10	350.00	62.15	66.03	64.77	66.26	0.002162	2.11	166.20	65.60	0.42
Monte	43019.36	TR20	350.00	62.15	66.03	64.77	66.26	0.002162	2.11	166.20	65.60	0.42
Monte	43019.36	TR50	350.00	62.15	66.03	64.77	66.26	0.002162	2.11	166.20	65.60	0.42
Monte	43019.36	TR100	350.00	62.15	66.03	64.77	66.26	0.002162	2.11	166.20	65.60	0.42
Monte	43019.36	TR200	350.00	62.15	66.03	64.77	66.26	0.002162	2.11	166.20	65.60	0.42
Monte	42951.67	TR5	350.00	62.05	65.82	64.99	66.10	0.002726	2.50	155.94	68.83	0.47
Monte	42951.67	TR10	350.00	62.05	65.82	64.99	66.10	0.002726	2.50	155.94	68.83	0.47
Monte	42951.67	TR20	350.00	62.05	65.82	64.99	66.10	0.002726	2.50	155.94	68.83	0.47
Monte	42951.67	TR50	350.00	62.05	65.82	64.99	66.10	0.002726	2.50	155.94	68.83	0.47
Monte	42951.67	TR100	350.00	62.05	65.82	64.99	66.10	0.002726	2.50	155.94	68.83	0.47
Monte	42951.67	TR200	350.00	62.05	65.82	64.99	66.10	0.002726	2.50	155.94	68.83	0.47
Monte	42901.65	TR5	350.00	62.02	65.63	64.72	65.94	0.003559	2.47	143.25	70.09	0.52
Monte	42901.65	TR10	350.00	62.02	65.63	64.72	65.94	0.003559	2.47	143.25	70.09	0.52
Monte	42901.65	TR20	350.00	62.02	65.63	64.72	65.94	0.003559	2.47	143.25	70.09	0.52
Monte	42901.65	TR50	350.00	62.02	65.63	64.72	65.94	0.003559	2.47	143.25	70.09	0.52
Monte	42901.65	TR100	350.00	62.02	65.63	64.72	65.94	0.003559	2.47	143.25	70.09	0.52
Monte	42901.65	TR200	350.00	62.02	65.63	64.72	65.94	0.003559	2.47	143.25	70.09	0.52
Monte	42853.55	TR5	350.00	62.07	65.37	64.47	65.76	0.004004	2.79	128.26	61.76	0.56

HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	42853.55	TR10	350.00	62.07	65.37	64.47	65.76	0.004004	2.79	128.26	61.76	0.56
Monte	42853.55	TR20	350.00	62.07	65.37	64.47	65.76	0.004004	2.79	128.26	61.76	0.56
Monte	42853.55	TR50	350.00	62.07	65.37	64.47	65.76	0.004004	2.79	128.26	61.76	0.56
Monte	42853.55	TR100	350.00	62.07	65.37	64.47	65.76	0.004004	2.79	128.26	61.76	0.56
Monte	42853.55	TR200	350.00	62.07	65.37	64.47	65.76	0.004004	2.79	128.26	61.76	0.56
Monte	42801.14	TR5	350.00	61.39	65.43	63.92	65.63	0.001718	2.01	177.76	70.74	0.38
Monte	42801.14	TR10	350.00	61.39	65.43	63.92	65.63	0.001718	2.01	177.76	70.74	0.38
Monte	42801.14	TR20	350.00	61.39	65.43	63.92	65.63	0.001718	2.01	177.76	70.74	0.38
Monte	42801.14	TR50	350.00	61.39	65.43	63.92	65.63	0.001718	2.01	177.76	70.74	0.38
Monte	42801.14	TR100	350.00	61.39	65.43	63.92	65.63	0.001718	2.01	177.76	70.74	0.38
Monte	42801.14	TR200	350.00	61.39	65.43	63.92	65.63	0.001718	2.01	177.76	70.74	0.38
Monte	42753.26	TR5	350.00	61.20	65.23	64.27	65.52	0.003481	2.37	150.27	75.02	0.51
Monte	42753.26	TR10	350.00	61.20	65.23	64.27	65.52	0.003481	2.37	150.27	75.02	0.51
Monte	42753.26	TR20	350.00	61.20	65.23	64.27	65.52	0.003481	2.37	150.27	75.02	0.51
Monte	42753.26	TR50	350.00	61.20	65.23	64.27	65.52	0.003481	2.37	150.27	75.02	0.51
Monte	42753.26	TR100	350.00	61.20	65.23	64.27	65.52	0.003481	2.37	150.27	75.02	0.51
Monte	42753.26	TR200	350.00	61.20	65.23	64.27	65.52	0.003481	2.37	150.27	75.02	0.51
Monte	42701.71	TR5	350.00	60.94	65.11	63.84	65.35	0.002981	2.19	162.98	79.66	0.48
Monte	42701.71	TR10	350.00	60.94	65.11	63.84	65.35	0.002981	2.19	162.98	79.66	0.48
Monte	42701.71	TR20	350.00	60.94	65.11	63.84	65.35	0.002981	2.19	162.98	79.66	0.48
Monte	42701.71	TR50	350.00	60.94	65.11	63.84	65.35	0.002981	2.19	162.98	79.66	0.48
Monte	42701.71	TR100	350.00	60.94	65.11	63.84	65.35	0.002981	2.19	162.98	79.66	0.48
Monte	42701.71	TR200	350.00	60.94	65.11	63.84	65.35	0.002981	2.19	162.98	79.66	0.48
Monte	42652.67	TR5	350.00	60.62	64.94	63.79	65.19	0.003697	2.23	158.85	87.33	0.51
Monte	42652.67	TR10	350.00	60.62	64.94	63.79	65.19	0.003697	2.23	158.85	87.33	0.51
Monte	42652.67	TR20	350.00	60.62	64.94	63.79	65.19	0.003697	2.23	158.85	87.33	0.51
Monte	42652.67	TR50	350.00	60.62	64.94	63.79	65.19	0.003697	2.23	158.85	87.33	0.51
Monte	42652.67	TR100	350.00	60.62	64.94	63.79	65.19	0.003697	2.23	158.85	87.33	0.51
Monte	42652.67	TR200	350.00	60.62	64.94	63.79	65.19	0.003697	2.23	158.85	87.33	0.51
Monte	42601.3	TR5	350.00	60.94	64.79	63.66	65.02	0.002977	2.14	165.57	82.50	0.47
Monte	42601.3	TR10	350.00	60.94	64.79	63.66	65.02	0.002977	2.14	165.57	82.50	0.47
Monte	42601.3	TR20	350.00	60.94	64.79	63.66	65.02	0.002977	2.14	165.57	82.50	0.47
Monte	42601.3	TR50	350.00	60.94	64.79	63.66	65.02	0.002977	2.14	165.57	82.50	0.47
Monte	42601.3	TR100	350.00	60.94	64.79	63.66	65.02	0.002977	2.14	165.57	82.50	0.47
Monte	42601.3	TR200	350.00	60.94	64.79	63.66	65.02	0.002977	2.14	165.57	82.50	0.47
Monte	42554.57	TR5	350.00	60.61	64.63	63.65	64.87	0.003246	2.17	162.66	85.69	0.49
Monte	42554.57	TR10	350.00	60.61	64.63	63.65	64.87	0.003246	2.17	162.66	85.69	0.49
Monte	42554.57	TR20	350.00	60.61	64.63	63.65	64.87	0.003246	2.17	162.66	85.69	0.49
Monte	42554.57	TR50	350.00	60.61	64.63	63.65	64.87	0.003246	2.17	162.66	85.69	0.49
Monte	42554.57	TR100	350.00	60.61	64.63	63.65	64.87	0.003246	2.17	162.66	85.69	0.49
Monte	42554.57	TR200	350.00	60.61	64.63	63.65	64.87	0.003246	2.17	162.66	85.69	0.49
Monte	42517.61	TR5	350.00	60.51	64.54	63.48	64.76	0.002707	2.10	170.24	87.67	0.45
Monte	42517.61	TR10	350.00	60.51	64.54	63.48	64.76	0.002707	2.10	170.24	87.67	0.45
Monte	42517.61	TR20	350.00	60.51	64.54	63.48	64.76	0.002707	2.10	170.24	87.67	0.45
Monte	42517.61	TR50	350.00	60.51	64.54	63.48	64.76	0.002707	2.10	170.24	87.67	0.45
Monte	42517.61	TR100	350.00	60.51	64.54	63.48	64.76	0.002707	2.10	170.24	87.67	0.45
Monte	42517.61	TR200	350.00	60.51	64.54	63.48	64.76	0.002707	2.10	170.24	87.67	0.45
Monte	42450.45	TR5	350.00	60.39	64.41	63.18	64.60	0.002089	1.96	186.86	98.03	0.40
Monte	42450.45	TR10	350.00	60.39	64.41	63.18	64.60	0.002089	1.96	186.86	98.03	0.40
Monte	42450.45	TR20	350.00	60.39	64.41	63.18	64.60	0.002089	1.96	186.86	98.03	0.40
Monte	42450.45	TR50	350.00	60.39	64.41	63.18	64.60	0.002089	1.96	186.86	98.03	0.40
Monte	42450.45	TR100	350.00	60.39	64.41	63.18	64.60	0.002089	1.96	186.86	98.03	0.40
Monte	42450.45	TR200	350.00	60.39	64.41	63.18	64.60	0.002089	1.96	186.86	98.03	0.40
Monte	42398.03	TR5	350.00	60.41	64.34	62.97	64.50	0.001823	1.77	204.43	132.53	0.37
Monte	42398.03	TR10	350.00	60.41	64.34	62.97	64.50	0.001823	1.77	204.43	132.53	0.37
Monte	42398.03	TR20	350.00	60.41	64.34	62.97	64.50	0.001823	1.77	204.43	132.53	0.37
Monte	42398.03	TR50	350.00	60.41	64.34	62.97	64.50	0.001823	1.77	204.43	132.53	0.37
Monte	42398.03	TR100	350.00	60.41	64.34	62.97	64.50	0.001823	1.77	204.43	132.53	0.37
Monte	42398.03	TR200	350.00	60.41	64.34	62.97	64.50	0.001823	1.77	204.43	132.53	0.37
Monte	42347.86	TR5	350.00	60.25	64.27	62.89	64.42	0.001510	1.75	219.26	122.77	0.35
Monte	42347.86	TR10	350.00	60.25	64.27	62.89	64.42	0.001510	1.75	219.26	122.77	0.35
Monte	42347.86	TR20	350.00	60.25	64.27	62.89	64.42	0.001510	1.75	219.26	122.77	0.35
Monte	42347.86	TR50	350.00	60.25	64.27	62.89	64.42	0.001510	1.75	219.26	122.77	0.35
Monte	42347.86	TR100	350.00	60.25	64.27	62.89	64.42	0.001510	1.75	219.26	122.77	0.35
Monte	42347.86	TR200	350.00	60.25	64.27	62.89	64.42	0.001510	1.75	219.26	122.77	0.35
Monte	42300.27	TR5	350.00	60.08	64.22	62.73	64.35	0.001322	1.67	229.11	131.94	0.33
Monte	42300.27	TR10	350.00	60.08	64.22	62.73	64.35	0.001322	1.67	229.11	131.94	0.33
Monte	42300.27	TR20	350.00	60.08	64.22	62.73	64.35	0.001322	1.67	229.11	131.94	0.33
Monte	42300.27	TR50	350.00	60.08	64.22	62.73	64.35	0.001322	1.67	229.11	131.94	0.33
Monte	42300.27	TR100	350.00	60.08	64.22	62.73	64.35	0.001322	1.67	229.11	131.94	0.33
Monte	42300.27	TR200	350.00	60.08	64.22	62.73	64.35	0.001322	1.67	229.11	131.94	0.33

## HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	42248.25	TR5	350.00	60.09	64.16	62.51	64.29	0.001116	1.61	237.97	117.09	0.30
Monte	42248.25	TR10	350.00	60.09	64.16	62.51	64.29	0.001116	1.61	237.97	117.09	0.30
Monte	42248.25	TR20	350.00	60.09	64.16	62.51	64.29	0.001116	1.61	237.97	117.09	0.30
Monte	42248.25	TR50	350.00	60.09	64.16	62.51	64.29	0.001116	1.61	237.97	117.09	0.30
Monte	42248.25	TR100	350.00	60.09	64.16	62.51	64.29	0.001116	1.61	237.97	117.09	0.30
Monte	42248.25	TR200	350.00	60.09	64.16	62.51	64.29	0.001116	1.61	237.97	117.09	0.30
Monte	42199.09	TR5	350.00	60.06	64.06	62.67	64.23	0.001402	1.88	209.57	100.47	0.35
Monte	42199.09	TR10	350.00	60.06	64.06	62.67	64.23	0.001402	1.88	209.57	100.47	0.35
Monte	42199.09	TR20	350.00	60.06	64.06	62.67	64.23	0.001402	1.88	209.57	100.47	0.35
Monte	42199.09	TR50	350.00	60.06	64.06	62.67	64.23	0.001402	1.88	209.57	100.47	0.35
Monte	42199.09	TR100	350.00	60.06	64.06	62.67	64.23	0.001402	1.88	209.57	100.47	0.35
Monte	42199.09	TR200	350.00	60.06	64.06	62.67	64.23	0.001402	1.88	209.57	100.47	0.35
Monte	42136.93	TR5	350.00	60.04	63.96	62.43	64.14	0.001345	1.91	191.56	65.64	0.34
Monte	42136.93	TR10	350.00	60.04	63.96	62.43	64.14	0.001345	1.91	191.56	65.64	0.34
Monte	42136.93	TR20	350.00	60.04	63.96	62.43	64.14	0.001345	1.91	191.56	65.64	0.34
Monte	42136.93	TR50	350.00	60.04	63.96	62.43	64.14	0.001345	1.91	191.56	65.64	0.34
Monte	42136.93	TR100	350.00	60.04	63.96	62.43	64.14	0.001345	1.91	191.56	65.64	0.34
Monte	42136.93	TR200	350.00	60.04	63.96	62.43	64.14	0.001345	1.91	191.56	65.64	0.34
Monte	42115.46	TR5	350.00	59.96	63.76	62.71	64.10	0.002935	2.60	136.89	52.07	0.49
Monte	42115.46	TR10	350.00	59.96	63.76	62.71	64.10	0.002935	2.60	136.89	52.07	0.49
Monte	42115.46	TR20	350.00	59.96	63.76	62.71	64.10	0.002935	2.60	136.89	52.07	0.49
Monte	42115.46	TR50	350.00	59.96	63.76	62.71	64.10	0.002935	2.60	136.89	52.07	0.49
Monte	42115.46	TR100	350.00	59.96	63.76	62.71	64.10	0.002935	2.60	136.89	52.07	0.49
Monte	42115.46	TR200	350.00	59.96	63.76	62.71	64.10	0.002935	2.60	136.89	52.07	0.49
Monte	42107		Bridge									
Monte	42099.11	TR5	350.00	59.87	62.35	62.35	63.29	0.013783	4.29	81.77	43.87	1.00
Monte	42099.11	TR10	350.00	59.87	62.35	62.35	63.29	0.013783	4.29	81.77	43.87	1.00
Monte	42099.11	TR20	350.00	59.87	62.35	62.35	63.29	0.013783	4.29	81.77	43.87	1.00
Monte	42099.11	TR50	350.00	59.87	62.35	62.35	63.29	0.013783	4.29	81.77	43.87	1.00
Monte	42099.11	TR100	350.00	59.87	62.35	62.35	63.29	0.013783	4.29	81.77	43.87	1.00
Monte	42099.11	TR200	350.00	59.87	62.35	62.35	63.29	0.013783	4.29	81.77	43.87	1.00
Monte	42053.86	TR5	350.00	58.63	62.41	61.14	62.64	0.002120	2.15	165.34	67.62	0.41
Monte	42053.86	TR10	350.00	58.63	62.41	61.14	62.64	0.002119	2.15	165.37	67.63	0.41
Monte	42053.86	TR20	350.00	58.63	62.41	61.14	62.64	0.002117	2.15	165.42	67.63	0.41
Monte	42053.86	TR50	350.00	58.63	62.41	61.14	62.64	0.002112	2.15	165.57	67.64	0.41
Monte	42053.86	TR100	350.00	58.63	62.41	61.14	62.65	0.002101	2.15	165.84	67.66	0.41
Monte	42053.86	TR200	350.00	58.63	62.42	61.14	62.65	0.002080	2.14	166.39	67.69	0.41
Monte	42003.89	TR5	350.00	58.64	62.24	61.13	62.52	0.002790	2.38	152.88	78.09	0.47
Monte	42003.89	TR10	350.00	58.64	62.24	61.13	62.52	0.002788	2.38	152.92	78.10	0.47
Monte	42003.89	TR20	350.00	58.64	62.24	61.13	62.52	0.002784	2.38	153.00	78.11	0.47
Monte	42003.89	TR50	350.00	58.64	62.24	61.13	62.52	0.002773	2.38	153.23	78.13	0.47
Monte	42003.89	TR100	350.00	58.64	62.25	61.13	62.53	0.002752	2.37	153.65	78.18	0.47
Monte	42003.89	TR200	350.00	58.64	62.26	61.13	62.54	0.002711	2.36	154.51	78.27	0.46
Monte	41954.82	TR5	350.00	58.31	62.10	61.07	62.38	0.002947	2.39	156.16	87.29	0.48
Monte	41954.82	TR10	350.00	58.31	62.10	61.07	62.38	0.002944	2.39	156.22	87.29	0.48
Monte	41954.82	TR20	350.00	58.31	62.10	61.07	62.38	0.002938	2.39	156.35	87.29	0.48
Monte	41954.82	TR50	350.00	58.31	62.10	61.07	62.38	0.002920	2.38	156.71	87.30	0.48
Monte	41954.82	TR100	350.00	58.31	62.11	61.07	62.39	0.002886	2.38	157.37	87.32	0.48
Monte	41954.82	TR200	350.00	58.31	62.13	61.07	62.40	0.002822	2.36	158.68	87.36	0.47
Monte	41905.42	TR5	350.00	58.39	61.86	61.08	62.21	0.004243	2.63	140.08	86.48	0.57
Monte	41905.42	TR10	350.00	58.39	61.86	61.08	62.21	0.004235	2.63	140.19	86.49	0.57
Monte	41905.42	TR20	350.00	58.39	61.86	61.08	62.21	0.004216	2.63	140.42	86.51	0.57
Monte	41905.42	TR50	350.00	58.39	61.87	61.08	62.21	0.004165	2.62	141.04	86.56	0.56
Monte	41905.42	TR100	350.00	58.39	61.89	61.08	62.22	0.004073	2.60	142.20	86.65	0.56
Monte	41905.42	TR200	350.00	58.39	61.91	61.08	62.24	0.003903	2.56	144.41	86.82	0.55
Monte	41854.43	TR5	350.00	58.14	61.62	60.89	61.98	0.004785	2.67	140.10	100.41	0.60
Monte	41854.43	TR10	350.00	58.14	61.63	60.89	61.98	0.004758	2.67	140.40	100.42	0.59
Monte	41854.43	TR20	350.00	58.14	61.63	60.89	61.98	0.004702	2.66	141.03	100.46	0.59
Monte	41854.43	TR50	350.00	58.14	61.65	60.89	61.99	0.004559	2.63	142.72	100.57	0.58
Monte	41854.43	TR100	350.00	58.14	61.68	60.89	62.01	0.004323	2.58	145.62	100.76	0.57
Monte	41854.43	TR200	350.00	58.14	61.73	60.89	62.04	0.003948	2.51	150.69	101.08	0.55
Monte	41796.16	TR5	350.00	57.97	61.39	60.50	61.74	0.003519	2.64	142.02	87.60	0.53
Monte	41796.16	TR10	350.00	57.97	61.40	60.50	61.74	0.003493	2.64	142.45	87.72	0.52
Monte	41796.16	TR20	350.00	57.97	61.41	60.50	61.75	0.003439	2.62	143.38	87.87	0.52
Monte	41796.16	TR50	350.00	57.97	61.43	60.50	61.76	0.003297	2.59	145.86	88.02	0.51
Monte	41796.16	TR100	350.00	57.97	61.48	60.50	61.79	0.003084	2.53	149.84	88.25	0.49
Monte	41796.16	TR200	350.00	57.97	61.55	60.50	61.84	0.002768	2.44	156.39	88.63	0.47
Monte	41750.2	TR5	350.00	57.53	61.45	60.42	61.62	0.001760	2.06	223.91	167.00	0.38
Monte	41750.2	TR10	350.00	57.53	61.46	60.42	61.63	0.001742	2.05	224.86	167.01	0.38
Monte	41750.2	TR20	350.00	57.53	61.47	60.42	61.64	0.001704	2.03	226.89	167.04	0.37
Monte	41750.2	TR50	350.00	57.53	61.50	60.42	61.66	0.001609	1.99	232.20	167.12	0.36

HEC-RAS Plan: Steady\_SDF\_PR (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
Monte	41750.2	TR100	350.00	57.53	61.55	60.42	61.70	0.001474	1.92	240.44	167.24	0.35
Monte	41750.2	TR200	350.00	57.53	61.63	60.42	61.76	0.001286	1.83	253.51	167.44	0.33
Monte	41694.76	TR5	350.00	57.36	61.40	60.20	61.54	0.001540	1.76	242.85	166.11	0.35
Monte	41694.76	TR10	350.00	57.36	61.41	60.20	61.54	0.001523	1.75	243.90	166.14	0.35
Monte	41694.76	TR20	350.00	57.36	61.42	60.20	61.55	0.001486	1.74	246.14	166.21	0.34
Monte	41694.76	TR50	350.00	57.36	61.46	60.20	61.58	0.001395	1.70	251.95	166.39	0.33
Monte	41694.76	TR100	350.00	57.36	61.51	60.20	61.63	0.001269	1.64	260.88	166.66	0.32
Monte	41694.76	TR200	350.00	57.36	61.59	60.20	61.70	0.001099	1.56	274.83	167.09	0.30
Monte	41642.57	TR5	350.00	57.38	61.27	60.34	61.44	0.002255	2.02	215.57	162.78	0.42
Monte	41642.57	TR10	350.00	57.38	61.28	60.34	61.45	0.002213	2.01	217.05	162.83	0.41
Monte	41642.57	TR20	350.00	57.38	61.29	60.34	61.46	0.002130	1.98	220.14	162.94	0.41
Monte	41642.57	TR50	350.00	57.38	61.34	60.34	61.49	0.001938	1.92	227.90	163.21	0.39
Monte	41642.57	TR100	350.00	57.38	61.41	60.34	61.55	0.001694	1.82	239.21	163.39	0.37
Monte	41642.57	TR200	350.00	57.38	61.51	60.34	61.63	0.001401	1.70	255.88	163.60	0.33
Monte	41595.91	TR5	350.00	57.46	61.09	60.71	61.32	0.003013	2.39	186.33	142.35	0.49
Monte	41595.91	TR10	350.00	57.46	61.10	60.71	61.33	0.002922	2.37	188.49	142.52	0.48
Monte	41595.91	TR20	350.00	57.46	61.13	60.71	61.35	0.002749	2.31	192.86	142.84	0.47
Monte	41595.91	TR50	350.00	57.46	61.20	60.71	61.40	0.002397	2.20	202.98	143.68	0.44
Monte	41595.91	TR100	350.00	57.46	61.29	60.71	61.47	0.002012	2.07	216.47	144.77	0.40
Monte	41595.91	TR200	350.00	57.46	61.42	60.71	61.56	0.001602	1.90	234.91	145.90	0.36
Monte	41546.99	TR5	350.00	57.17	60.91	60.07	61.18	0.002620	2.52	181.14	149.00	0.46
Monte	41546.99	TR10	350.00	57.17	60.93	60.07	61.20	0.002509	2.48	184.85	150.23	0.45
Monte	41546.99	TR20	350.00	57.17	60.98	60.07	61.23	0.002320	2.41	191.77	150.96	0.44
Monte	41546.99	TR50	350.00	57.17	61.08	60.07	61.29	0.001930	2.25	207.49	151.51	0.40
Monte	41546.99	TR100	350.00	57.17	61.20	60.07	61.38	0.001565	2.07	226.01	152.07	0.36
Monte	41546.99	TR200	350.00	57.17	61.36	60.07	61.50	0.001220	1.89	249.06	152.44	0.32
Monte	41501.46	TR5	350.00	56.99	60.77	59.97	61.05	0.003136	2.51	170.60	136.25	0.50
Monte	41501.46	TR10	350.00	56.99	60.81	59.97	61.08	0.002928	2.45	175.75	137.46	0.48
Monte	41501.46	TR20	350.00	56.99	60.87	59.97	61.11	0.002617	2.35	184.50	142.31	0.46
Monte	41501.46	TR50	350.00	56.99	61.00	59.97	61.20	0.002092	2.17	203.10	148.42	0.41
Monte	41501.46	TR100	350.00	56.99	61.13	59.97	61.30	0.001699	2.02	223.46	153.62	0.37
Monte	41501.46	TR200	350.00	56.99	61.31	59.97	61.44	0.001268	1.81	249.91	154.07	0.33
Monte	41457.84	TR5	350.00	56.55	60.70	59.96	60.92	0.002876	2.21	191.21	150.55	0.47
Monte	41457.84	TR10	350.00	56.55	60.75	59.96	60.96	0.002600	2.13	198.69	150.73	0.45
Monte	41457.84	TR20	350.00	56.55	60.83	59.96	61.01	0.002235	2.02	210.26	151.00	0.42
Monte	41457.84	TR50	350.00	56.55	60.98	59.96	61.12	0.001704	1.83	232.03	151.38	0.37
Monte	41457.84	TR100	350.00	56.55	61.12	59.96	61.24	0.001315	1.67	254.29	151.69	0.33
Monte	41457.84	TR200	350.00	56.55	61.30	59.96	61.39	0.000987	1.51	280.73	152.06	0.28
Monte	41417.82	TR5	350.00	56.44	60.63	59.69	60.82	0.002341	2.08	202.42	148.17	0.43
Monte	41417.82	TR10	350.00	56.44	60.69	59.69	60.86	0.002090	1.99	211.31	148.37	0.41
Monte	41417.82	TR20	350.00	56.44	60.78	59.69	60.93	0.001775	1.88	224.50	148.57	0.38
Monte	41417.82	TR50	350.00	56.44	60.93	59.69	61.06	0.001344	1.71	248.15	148.91	0.33
Monte	41417.82	TR100	350.00	56.44	61.09	59.69	61.19	0.001040	1.56	271.50	149.25	0.29
Monte	41417.82	TR200	350.00	56.44	61.27	59.69	61.36	0.000787	1.41	298.67	149.60	0.26
Monte	41361.12	TR5	350.00	56.45	60.49	59.73	60.68	0.002612	2.02	204.99	167.48	0.44
Monte	41361.12	TR10	350.00	56.45	60.58	59.73	60.74	0.002229	1.90	219.41	170.62	0.41
Monte	41361.12	TR20	350.00	56.45	60.70	59.73	60.83	0.001795	1.74	239.56	172.36	0.37
Monte	41361.12	TR50	350.00	56.45	60.88	59.73	60.99	0.001251	1.53	271.99	172.52	0.31
Monte	41361.12	TR100	350.00	56.45	61.06	59.73	61.14	0.000923	1.38	301.82	172.65	0.27
Monte	41361.12	TR200	350.00	56.45	61.25	59.73	61.31	0.000674	1.23	335.20	172.80	0.24
Monte	41311.86	TR5	350.00	56.16	60.49	59.64	60.59	0.001378	1.54	278.12	194.28	0.33
Monte	41311.86	TR10	350.00	56.16	60.58	59.64	60.66	0.001159	1.45	295.07	194.63	0.30
Monte	41311.86	TR20	350.00	56.16	60.69	59.64	60.77	0.000929	1.34	317.95	195.11	0.27
Monte	41311.86	TR50	350.00	56.16	60.88	59.64	60.94	0.000667	1.19	355.07	196.22	0.23
Monte	41311.86	TR100	350.00	56.16	61.06	59.64	61.10	0.000503	1.08	389.27	196.30	0.20
Monte	41311.86	TR200	350.00	56.16	61.25	59.64	61.29	0.000376	0.97	427.38	196.38	0.18
Monte	41264.56	TR5	350.00	56.21	60.44	59.65	60.52	0.001310	1.44	296.85	218.71	0.31
Monte	41264.56	TR10	350.00	56.21	60.54	59.65	60.61	0.001065	1.34	318.31	218.82	0.29
Monte	41264.56	TR20	350.00	56.21	60.67	59.65	60.73	0.000827	1.23	346.24	218.94	0.25
Monte	41264.56	TR50	350.00	56.21	60.87	59.65	60.91	0.000575	1.08	390.03	219.12	0.21
Monte	41264.56	TR100	350.00	56.21	61.05	59.65	61.08	0.000427	0.97	429.44	219.28	0.19
Monte	41264.56	TR200	350.00	56.21	61.24	59.65	61.27	0.000315	0.88	472.89	219.45	0.16
Valle	41049.52	TR5	577.00	56.21	59.05	59.05	59.74	0.010306	3.74	166.65	148.69	0.87
Valle	41049.52	TR10	656.00	56.21	59.25	59.25	59.92	0.008872	3.71	198.56	160.71	0.82
Valle	41049.52	TR20	747.00	56.21	59.40	59.40	60.09	0.008604	3.83	223.27	164.98	0.82
Valle	41049.52	TR50	892.00	56.21	59.60	59.60	60.35	0.008554	4.04	256.33	168.50	0.82
Valle	41049.52	TR100	1026.00	56.21	59.77	59.77	60.57	0.008558	4.22	284.15	170.85	0.83
Valle	41049.52	TR200	1185.00	56.21	60.00	59.94	60.81	0.007859	4.29	325.11	175.02	0.81
Valle	40973.87	TR5	577.00	56.21	58.90	58.13	59.21	0.003594	2.47	249.25	162.73	0.53
Valle	40973.87	TR10	656.00	56.21	59.10	58.28	59.41	0.003351	2.53	281.58	163.58	0.52
Valle	40973.87	TR20	747.00	56.21	59.31	58.44	59.63	0.003153	2.59	316.11	165.24	0.51

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	40973.87	TR50	892.00	56.21	59.58	58.77	59.93	0.003084	2.73	360.64	167.23	0.51
Valle	40973.87	TR100	1026.00	56.21	59.80	59.00	60.18	0.003081	2.87	397.51	170.29	0.52
Valle	40973.87	TR200	1185.00	56.21	60.04	59.19	60.45	0.003064	3.00	439.00	171.78	0.52
Valle	40961	Bridge										
Valle	40950.29	TR5	577.00	56.19	58.63	57.92	58.93	0.003961	2.48	247.56	155.97	0.55
Valle	40950.29	TR10	656.00	56.19	58.80	58.08	59.12	0.003879	2.57	273.47	160.11	0.55
Valle	40950.29	TR20	747.00	56.19	58.97	58.31	59.31	0.003831	2.67	301.96	166.19	0.55
Valle	40950.29	TR50	892.00	56.19	59.23	58.56	59.60	0.003673	2.79	347.11	173.69	0.55
Valle	40950.29	TR100	1026.00	56.19	59.46	58.73	59.86	0.003545	2.90	386.77	176.80	0.54
Valle	40950.29	TR200	1185.00	56.19	59.73	58.93	60.15	0.003364	2.99	434.66	183.69	0.54
Valle	40899.57	TR5	577.00	54.84	58.54	57.48	58.77	0.002630	2.18	284.63	153.05	0.45
Valle	40899.57	TR10	656.00	54.84	58.71	57.70	58.96	0.002641	2.28	309.89	153.41	0.46
Valle	40899.57	TR20	747.00	54.84	58.88	57.96	59.15	0.002676	2.40	336.32	153.77	0.47
Valle	40899.57	TR50	892.00	54.84	59.14	58.23	59.45	0.002739	2.55	377.05	160.71	0.48
Valle	40899.57	TR100	1026.00	54.84	59.36	58.40	59.70	0.002740	2.68	413.49	166.71	0.48
Valle	40899.57	TR200	1185.00	54.84	59.63	58.59	60.00	0.002680	2.80	460.00	182.50	0.48
Valle	40849.7	TR5	577.00	54.89	58.26	57.50	58.61	0.004274	2.63	231.52	144.89	0.57
Valle	40849.7	TR10	656.00	54.89	58.42	57.66	58.79	0.004291	2.75	254.64	148.06	0.58
Valle	40849.7	TR20	747.00	54.89	58.58	57.96	58.99	0.004303	2.88	278.91	155.09	0.58
Valle	40849.7	TR50	892.00	54.89	58.84	58.24	59.28	0.004212	3.04	320.06	174.34	0.59
Valle	40849.7	TR100	1026.00	54.89	59.07	58.43	59.54	0.004027	3.14	361.52	177.19	0.58
Valle	40849.7	TR200	1185.00	54.89	59.37	58.65	59.84	0.003649	3.19	414.65	177.39	0.56
Valle	40799.96	TR5	577.00	54.74	58.02	57.39	58.38	0.004702	2.70	223.00	148.33	0.60
Valle	40799.96	TR10	656.00	54.74	58.17	57.53	58.57	0.004658	2.82	247.22	160.56	0.60
Valle	40799.96	TR20	747.00	54.74	58.34	57.73	58.76	0.004591	2.94	274.69	165.73	0.60
Valle	40799.96	TR50	892.00	54.74	58.63	58.05	59.07	0.004235	3.04	323.07	170.75	0.59
Valle	40799.96	TR100	1026.00	54.74	58.89	58.27	59.34	0.003869	3.09	368.16	171.41	0.57
Valle	40799.96	TR200	1185.00	54.74	59.22	58.49	59.67	0.003379	3.10	425.24	171.93	0.54
Valle	40749	TR5	577.00	54.47	57.82	57.14	58.16	0.004164	2.63	234.42	146.50	0.56
Valle	40749	TR10	656.00	54.47	57.98	57.32	58.35	0.004124	2.74	258.21	149.35	0.57
Valle	40749	TR20	747.00	54.47	58.15	57.56	58.54	0.004116	2.86	283.39	151.20	0.57
Valle	40749	TR50	892.00	54.47	58.44	57.79	58.86	0.003827	2.97	328.97	154.83	0.56
Valle	40749	TR100	1026.00	54.47	58.71	57.95	59.15	0.003575	3.05	371.43	159.73	0.55
Valle	40749	TR200	1185.00	54.47	59.07	58.18	59.50	0.003142	3.07	428.42	163.81	0.53
Valle	40700.02	TR5	577.00	54.57	57.72	56.85	57.99	0.002882	2.36	268.13	150.71	0.48
Valle	40700.02	TR10	656.00	54.57	57.89	57.06	58.18	0.002896	2.47	293.19	152.90	0.48
Valle	40700.02	TR20	747.00	54.57	58.06	57.23	58.37	0.002947	2.59	319.15	154.99	0.49
Valle	40700.02	TR50	892.00	54.57	58.36	57.46	58.70	0.002817	2.72	367.52	161.68	0.49
Valle	40700.02	TR100	1026.00	54.57	58.65	57.68	59.00	0.002616	2.78	413.84	161.95	0.48
Valle	40700.02	TR200	1185.00	54.57	59.02	57.87	59.37	0.002320	2.80	473.25	162.23	0.46
Valle	40648.36	TR5	577.00	54.41	57.54	56.72	57.83	0.003246	2.43	253.03	138.33	0.50
Valle	40648.36	TR10	656.00	54.41	57.70	56.88	58.02	0.003299	2.55	274.94	140.91	0.51
Valle	40648.36	TR20	747.00	54.41	57.86	57.07	58.21	0.003419	2.70	297.15	146.34	0.53
Valle	40648.36	TR50	892.00	54.41	58.16	57.33	58.55	0.003258	2.84	343.91	154.15	0.53
Valle	40648.36	TR100	1026.00	54.41	58.47	57.52	58.86	0.002961	2.89	390.73	155.52	0.51
Valle	40648.36	TR200	1185.00	54.41	58.86	57.73	59.24	0.002551	2.89	451.67	156.46	0.48
Valle	40591.9	TR5	577.00	54.20	56.84	56.84	57.53	0.010818	3.89	167.45	118.43	0.89
Valle	40591.9	TR10	656.00	54.20	56.97	56.97	57.71	0.010733	4.05	183.25	120.63	0.90
Valle	40591.9	TR20	747.00	54.20	57.30	57.12	57.93	0.007765	3.79	224.29	134.04	0.78
Valle	40591.9	TR50	892.00	54.20	57.75	57.35	58.31	0.005572	3.61	288.63	144.39	0.68
Valle	40591.9	TR100	1026.00	54.20	58.16	57.44	58.66	0.004207	3.43	348.37	147.84	0.61
Valle	40591.9	TR200	1185.00	54.20	58.63	57.77	59.08	0.003220	3.28	417.89	150.23	0.54
Valle	40548.99	TR5	577.00	54.14	57.06	56.09	57.28	0.002291	2.12	291.15	144.37	0.43
Valle	40548.99	TR10	656.00	54.14	57.29	56.22	57.52	0.002131	2.17	324.63	145.88	0.42
Valle	40548.99	TR20	747.00	54.14	57.55	56.42	57.78	0.001980	2.22	361.82	146.62	0.41
Valle	40548.99	TR50	892.00	54.14	57.94	56.62	58.18	0.001780	2.29	419.71	147.66	0.40
Valle	40548.99	TR100	1026.00	54.14	58.30	56.80	58.55	0.001621	2.33	472.83	148.59	0.39
Valle	40548.99	TR200	1185.00	54.14	58.73	56.98	58.99	0.001447	2.37	537.32	150.16	0.37
Valle	40538	Bridge										
Valle	40528.82	TR5	577.00	54.16	56.94	56.06	57.17	0.002494	2.17	283.84	141.36	0.45
Valle	40528.82	TR10	656.00	54.16	57.18	56.20	57.42	0.002269	2.20	318.12	143.41	0.43
Valle	40528.82	TR20	747.00	54.16	57.45	56.35	57.69	0.002076	2.24	356.02	144.64	0.42
Valle	40528.82	TR50	892.00	54.16	57.85	56.56	58.10	0.001847	2.31	414.92	147.75	0.40
Valle	40528.82	TR100	1026.00	54.16	58.21	56.73	58.47	0.001691	2.36	468.58	152.68	0.39
Valle	40528.82	TR200	1185.00	54.16	58.63	56.92	58.90	0.001522	2.41	533.49	158.25	0.38
Valle	40477.21	TR5	577.00	53.19	56.88	55.50	57.07	0.001628	1.97	315.91	147.38	0.37
Valle	40477.21	TR10	656.00	53.19	57.12	55.67	57.32	0.001537	2.02	352.22	147.57	0.36
Valle	40477.21	TR20	747.00	53.19	57.39	55.86	57.60	0.001454	2.07	391.85	147.78	0.36
Valle	40477.21	TR50	892.00	53.19	57.80	56.09	58.02	0.001342	2.15	452.44	148.09	0.35
Valle	40477.21	TR100	1026.00	53.19	58.17	56.32	58.39	0.001253	2.21	506.51	148.10	0.35

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	40477.21	TR200	1185.00	53.19	58.59	56.57	58.83	0.001163	2.27	568.98	148.10	0.34
Valle	40413.99	TR5	577.00	53.02	56.74	55.33	56.96	0.001725	2.15	294.33	132.35	0.39
Valle	40413.99	TR10	656.00	53.02	56.99	55.52	57.22	0.001657	2.22	327.49	134.18	0.38
Valle	40413.99	TR20	747.00	53.02	57.26	55.72	57.50	0.001585	2.28	363.92	134.27	0.38
Valle	40413.99	TR50	892.00	53.02	57.67	55.99	57.93	0.001483	2.37	419.52	134.42	0.37
Valle	40413.99	TR100	1026.00	53.02	58.04	56.30	58.31	0.001400	2.44	469.07	134.51	0.37
Valle	40413.99	TR200	1185.00	53.02	58.47	56.54	58.75	0.001311	2.51	526.28	134.51	0.36
Valle	40350.05	TR5	577.00	52.39	56.58	55.18	56.84	0.001956	2.33	270.10	123.51	0.41
Valle	40350.05	TR10	656.00	52.39	56.83	55.38	57.11	0.001890	2.40	301.00	123.60	0.41
Valle	40350.05	TR20	747.00	52.39	57.10	55.57	57.39	0.001821	2.48	334.74	123.70	0.41
Valle	40350.05	TR50	892.00	52.39	57.52	55.86	57.83	0.001714	2.58	386.38	123.84	0.40
Valle	40350.05	TR100	1026.00	52.39	57.89	56.21	58.21	0.001623	2.66	432.46	123.98	0.40
Valle	40350.05	TR200	1185.00	52.39	58.32	56.54	58.66	0.001523	2.73	485.72	124.13	0.39
Valle	40299.14	TR5	577.00	52.21	56.35	55.29	56.72	0.002925	2.75	220.43	86.10	0.50
Valle	40299.14	TR10	656.00	52.21	56.58	55.45	56.99	0.002915	2.88	240.65	88.14	0.50
Valle	40299.14	TR20	747.00	52.21	56.84	55.68	57.28	0.002900	3.01	263.17	90.07	0.51
Valle	40299.14	TR50	892.00	52.21	57.23	55.96	57.72	0.002837	3.19	299.29	97.81	0.51
Valle	40299.14	TR100	1026.00	52.21	57.58	56.24	58.11	0.002760	3.33	336.78	114.22	0.51
Valle	40299.14	TR200	1185.00	52.21	58.01	56.52	58.56	0.002565	3.42	388.24	120.73	0.50
Valle	40250.72	TR5	577.00	52.08	56.31	55.12	56.60	0.002102	2.52	264.15	114.71	0.43
Valle	40250.72	TR10	656.00	52.08	56.57	55.46	56.87	0.002002	2.59	293.90	114.71	0.43
Valle	40250.72	TR20	747.00	52.08	56.85	55.66	57.16	0.001916	2.65	326.00	114.71	0.42
Valle	40250.72	TR50	892.00	52.08	57.28	55.95	57.61	0.001797	2.75	374.94	114.71	0.42
Valle	40250.72	TR100	1026.00	52.08	57.66	56.16	58.00	0.001699	2.82	418.59	114.71	0.41
Valle	40250.72	TR200	1185.00	52.08	58.10	56.39	58.46	0.001594	2.90	469.14	114.71	0.40
Valle	40199.78	TR5	577.00	52.22	56.21	55.22	56.49	0.002122	2.52	263.83	108.41	0.43
Valle	40199.78	TR10	656.00	52.22	56.47	55.39	56.77	0.002024	2.58	292.26	108.41	0.43
Valle	40199.78	TR20	747.00	52.22	56.76	55.57	57.06	0.001944	2.66	322.74	108.41	0.42
Valle	40199.78	TR50	892.00	52.22	57.18	55.82	57.51	0.001838	2.77	369.06	108.41	0.42
Valle	40199.78	TR100	1026.00	52.22	57.56	56.02	57.91	0.001748	2.85	410.46	108.41	0.42
Valle	40199.78	TR200	1185.00	52.22	58.01	56.24	58.38	0.001652	2.94	458.38	108.41	0.41
Valle	40150.4	TR5	577.00	52.07	56.04	54.84	56.38	0.002362	2.69	235.07	90.12	0.46
Valle	40150.4	TR10	656.00	52.07	56.29	55.04	56.66	0.002333	2.80	257.89	90.94	0.46
Valle	40150.4	TR20	747.00	52.07	56.56	55.21	56.96	0.002312	2.92	282.59	91.94	0.46
Valle	40150.4	TR50	892.00	52.07	56.97	55.61	57.41	0.002289	3.10	321.80	97.67	0.47
Valle	40150.4	TR100	1026.00	52.07	57.35	55.84	57.82	0.002186	3.20	359.14	97.91	0.46
Valle	40150.4	TR200	1185.00	52.07	57.80	56.14	58.29	0.002066	3.30	402.64	98.18	0.46
Valle	40116.57	TR5	577.00	51.98	56.05	54.50	56.31	0.001726	2.34	260.43	86.57	0.39
Valle	40116.57	TR10	656.00	51.98	56.30	54.69	56.59	0.001750	2.46	282.15	87.47	0.40
Valle	40116.57	TR20	747.00	51.98	56.56	54.88	56.89	0.001777	2.60	305.60	87.98	0.41
Valle	40116.57	TR50	892.00	51.98	56.97	55.16	57.34	0.001798	2.78	341.62	88.71	0.42
Valle	40116.57	TR100	1026.00	51.98	57.34	55.42	57.75	0.001789	2.93	374.60	89.38	0.42
Valle	40116.57	TR200	1185.00	51.98	57.77	55.69	58.22	0.001757	3.07	413.22	89.38	0.42
Valle	40105	Bridge										
Valle	40094.97	TR5	577.00	51.84	55.98	54.37	56.24	0.001650	2.32	263.17	86.23	0.39
Valle	40094.97	TR10	656.00	51.84	56.22	54.55	56.51	0.001695	2.46	284.13	87.77	0.40
Valle	40094.97	TR20	747.00	51.84	56.48	54.73	56.80	0.001741	2.60	306.81	88.19	0.41
Valle	40094.97	TR50	892.00	51.84	56.86	55.02	57.23	0.001802	2.80	340.43	88.19	0.42
Valle	40094.97	TR100	1026.00	51.84	57.19	55.28	57.61	0.001843	2.97	369.86	88.19	0.43
Valle	40094.97	TR200	1185.00	51.84	57.57	55.55	58.04	0.001881	3.15	402.97	88.19	0.44
Valle	40064.68	TR5	577.00	51.68	55.91	54.40	56.19	0.001884	2.40	256.17	89.34	0.41
Valle	40064.68	TR10	656.00	51.68	56.15	54.62	56.46	0.001908	2.52	277.80	89.65	0.41
Valle	40064.68	TR20	747.00	51.68	56.41	54.83	56.75	0.001942	2.66	300.89	89.98	0.42
Valle	40064.68	TR50	892.00	51.68	56.79	55.13	57.18	0.001988	2.86	335.23	90.40	0.43
Valle	40064.68	TR100	1026.00	51.68	57.12	55.44	57.55	0.002013	3.02	365.50	90.64	0.44
Valle	40064.68	TR200	1185.00	51.68	57.50	55.71	57.98	0.002033	3.19	399.74	90.92	0.45
Valle	40012.82	TR5	577.00	51.50	55.79	54.32	56.09	0.001951	2.48	247.77	83.78	0.42
Valle	40012.82	TR10	656.00	51.50	56.02	54.52	56.36	0.002005	2.63	267.49	84.72	0.43
Valle	40012.82	TR20	747.00	51.50	56.27	54.73	56.64	0.002063	2.78	288.67	85.02	0.44
Valle	40012.82	TR50	892.00	51.50	56.64	55.02	57.07	0.002142	3.00	320.06	85.02	0.45
Valle	40012.82	TR100	1026.00	51.50	56.97	55.36	57.44	0.002192	3.18	347.67	85.02	0.46
Valle	40012.82	TR200	1185.00	51.50	57.33	55.63	57.87	0.002238	3.37	378.80	85.02	0.47
Valle	39955.61	TR5	577.00	51.50	55.68	54.29	55.98	0.002001	2.50	248.44	86.52	0.42
Valle	39955.61	TR10	656.00	51.50	55.91	54.51	56.24	0.002039	2.64	268.72	86.69	0.43
Valle	39955.61	TR20	747.00	51.50	56.16	54.73	56.52	0.002089	2.78	290.21	86.86	0.44
Valle	39955.61	TR50	892.00	51.50	56.52	55.05	56.95	0.002159	3.00	322.11	87.12	0.45
Valle	39955.61	TR100	1026.00	51.50	56.85	55.30	57.32	0.002200	3.17	350.41	87.33	0.46
Valle	39955.61	TR200	1185.00	51.50	57.22	55.57	57.74	0.002232	3.36	382.49	87.38	0.47
Valle	39901.11	TR5	577.00	51.33	55.53	54.37	55.86	0.002402	2.63	239.27	92.27	0.46
Valle	39901.11	TR10	656.00	51.33	55.77	54.58	56.12	0.002392	2.74	261.16	92.35	0.46



## HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	39901.11	TR20	747.00	51.33	56.02	54.78	56.40	0.002401	2.88	284.26	92.44	0.47
Valle	39901.11	TR50	892.00	51.33	56.39	55.09	56.82	0.002417	3.07	318.53	92.57	0.48
Valle	39901.11	TR100	1026.00	51.33	56.72	55.35	57.19	0.002410	3.22	349.09	92.69	0.48
Valle	39901.11	TR200	1185.00	51.33	57.09	55.60	57.61	0.002394	3.38	383.81	92.82	0.49
Valle	39850.29	TR5	577.00	51.46	55.35	54.41	55.72	0.003078	2.81	223.65	94.94	0.51
Valle	39850.29	TR10	656.00	51.46	55.59	54.62	55.98	0.002966	2.90	246.86	94.94	0.51
Valle	39850.29	TR20	747.00	51.46	55.85	54.76	56.27	0.002898	3.01	271.08	94.94	0.51
Valle	39850.29	TR50	892.00	51.46	56.22	55.08	56.69	0.002825	3.18	306.84	94.94	0.51
Valle	39850.29	TR100	1026.00	51.46	56.56	55.36	57.06	0.002750	3.31	338.78	94.94	0.51
Valle	39850.29	TR200	1185.00	51.46	56.94	55.60	57.49	0.002671	3.46	374.99	94.94	0.51
Valle	39797.19	TR5	577.00	51.45	55.09	54.35	55.53	0.003925	3.05	203.81	95.58	0.57
Valle	39797.19	TR10	656.00	51.45	55.35	54.53	55.81	0.003637	3.11	229.07	96.12	0.56
Valle	39797.19	TR20	747.00	51.45	55.62	54.73	56.10	0.003458	3.20	254.79	96.63	0.55
Valle	39797.19	TR50	892.00	51.45	56.01	54.97	56.53	0.003254	3.34	292.79	96.88	0.55
Valle	39797.19	TR100	1026.00	51.45	56.36	55.30	56.91	0.003078	3.44	326.81	96.88	0.54
Valle	39797.19	TR200	1185.00	51.45	56.76	55.55	57.34	0.002915	3.56	365.14	96.88	0.53
Valle	39764.09	TR5	577.00	51.28	55.10	53.90	55.43	0.002403	2.62	235.64	87.02	0.46
Valle	39764.09	TR10	656.00	51.28	55.36	54.09	55.71	0.002368	2.73	257.70	87.39	0.46
Valle	39764.09	TR20	747.00	51.28	55.61	54.30	56.00	0.002373	2.86	280.30	87.76	0.47
Valle	39764.09	TR50	892.00	51.28	55.99	54.64	56.43	0.002395	3.06	313.50	88.17	0.48
Valle	39764.09	TR100	1026.00	51.28	56.33	54.88	56.82	0.002387	3.22	343.41	88.54	0.48
Valle	39764.09	TR200	1185.00	51.28	56.71	55.14	57.25	0.002374	3.39	377.38	89.12	0.49
Valle	39755	Bridge										
Valle	39746.83	TR5	577.00	51.37	55.02	53.89	55.36	0.002593	2.71	230.69	87.69	0.47
Valle	39746.83	TR10	656.00	51.37	55.27	54.07	55.64	0.002535	2.81	253.12	88.35	0.48
Valle	39746.83	TR20	747.00	51.37	55.53	54.28	55.94	0.002527	2.94	276.07	89.00	0.48
Valle	39746.83	TR50	892.00	51.37	55.90	54.53	56.36	0.002547	3.14	309.19	89.75	0.49
Valle	39746.83	TR100	1026.00	51.37	56.21	54.87	56.72	0.002573	3.31	337.45	90.25	0.50
Valle	39746.83	TR200	1185.00	51.37	56.56	55.13	57.13	0.002609	3.50	368.69	90.81	0.51
Valle	39726.27	TR5	577.00	50.70	54.99	53.32	55.32	0.002040	2.60	237.51	85.50	0.42
Valle	39726.27	TR10	656.00	50.70	55.23	53.53	55.60	0.002073	2.73	258.83	86.06	0.43
Valle	39726.27	TR20	747.00	50.70	55.49	53.79	55.89	0.002132	2.88	280.65	86.42	0.44
Valle	39726.27	TR50	892.00	50.70	55.85	54.21	56.31	0.002231	3.11	312.00	86.84	0.46
Valle	39726.27	TR100	1026.00	50.70	56.16	54.62	56.67	0.002314	3.31	338.69	87.19	0.47
Valle	39726.27	TR200	1185.00	50.70	56.49	54.95	57.07	0.002404	3.52	368.13	87.59	0.49
Valle	39693.8	TR5	577.00	50.72	54.74	53.74	55.23	0.003448	3.17	197.69	83.65	0.55
Valle	39693.8	TR10	656.00	50.72	54.99	53.99	55.51	0.003425	3.31	218.50	87.65	0.55
Valle	39693.8	TR20	747.00	50.72	55.24	54.27	55.80	0.003416	3.46	240.89	89.47	0.56
Valle	39693.8	TR50	892.00	50.72	55.60	54.61	56.22	0.003405	3.66	273.49	89.71	0.56
Valle	39693.8	TR100	1026.00	50.72	55.91	54.95	56.58	0.003408	3.83	301.17	89.92	0.57
Valle	39693.8	TR200	1185.00	50.72	56.25	55.30	56.98	0.003424	4.03	331.57	90.15	0.58
Valle	39650.48	TR5	577.00	50.60	54.62	53.58	55.09	0.003152	3.11	204.03	85.41	0.53
Valle	39650.48	TR10	656.00	50.60	54.87	53.82	55.37	0.003124	3.24	226.15	89.91	0.53
Valle	39650.48	TR20	747.00	50.60	55.13	53.99	55.66	0.003100	3.37	249.34	90.00	0.53
Valle	39650.48	TR50	892.00	50.60	55.50	54.43	56.08	0.003113	3.58	282.16	90.00	0.54
Valle	39650.48	TR100	1026.00	50.60	55.80	54.84	56.44	0.003136	3.75	309.84	90.00	0.55
Valle	39650.48	TR200	1185.00	50.60	56.14	55.11	56.84	0.003177	3.95	340.04	90.00	0.56
Valle	39599.16	TR5	577.00	50.37	54.49	53.40	54.93	0.003098	3.02	205.32	78.83	0.52
Valle	39599.16	TR10	656.00	50.37	54.71	53.64	55.21	0.003200	3.21	224.63	90.12	0.53
Valle	39599.16	TR20	747.00	50.37	54.97	53.89	55.50	0.003170	3.34	247.92	90.21	0.54
Valle	39599.16	TR50	892.00	50.37	55.33	54.23	55.92	0.003185	3.55	280.61	90.33	0.54
Valle	39599.16	TR100	1026.00	50.37	55.64	54.49	56.28	0.003210	3.73	308.18	90.44	0.55
Valle	39599.16	TR200	1185.00	50.37	55.97	54.55	56.68	0.003252	3.93	338.25	90.55	0.56
Valle	39559.2	TR5	577.00	50.32	54.35	53.29	54.80	0.003276	3.03	202.56	79.05	0.53
Valle	39559.2	TR10	656.00	50.32	54.58	53.55	55.08	0.003348	3.20	221.90	89.29	0.54
Valle	39559.2	TR20	747.00	50.32	54.84	53.78	55.37	0.003303	3.33	245.00	89.29	0.54
Valle	39559.2	TR50	892.00	50.32	55.20	54.15	55.79	0.003316	3.55	277.10	89.29	0.55
Valle	39559.2	TR100	1026.00	50.32	55.50	54.37	56.15	0.003346	3.73	303.97	89.29	0.56
Valle	39559.2	TR200	1185.00	50.32	55.82	54.81	56.54	0.003402	3.94	333.03	89.29	0.57
Valle	39504.2	TR5	577.00	50.35	54.16	53.05	54.62	0.003383	3.02	199.19	79.93	0.54
Valle	39504.2	TR10	656.00	50.35	54.39	53.28	54.89	0.003429	3.18	217.50	83.32	0.55
Valle	39504.2	TR20	747.00	50.35	54.63	53.53	55.19	0.003467	3.35	238.50	88.76	0.55
Valle	39504.2	TR50	892.00	50.35	54.99	53.91	55.60	0.003501	3.57	270.28	90.67	0.57
Valle	39504.2	TR100	1026.00	50.35	55.28	54.24	55.96	0.003524	3.76	297.41	90.88	0.57
Valle	39504.2	TR200	1185.00	50.35	55.61	54.52	56.35	0.003570	3.97	326.81	91.14	0.59
Valle	39456.43	TR5	577.00	50.09	53.93	52.92	54.44	0.004097	3.20	185.11	73.36	0.58
Valle	39456.43	TR10	656.00	50.09	54.14	53.14	54.71	0.004183	3.37	201.02	77.12	0.60
Valle	39456.43	TR20	747.00	50.09	54.38	53.41	55.00	0.004232	3.55	219.93	84.41	0.61
Valle	39456.43	TR50	892.00	50.09	54.70	53.79	55.42	0.004334	3.82	248.44	89.74	0.62
Valle	39456.43	TR100	1026.00	50.09	54.99	54.14	55.78	0.004379	4.02	274.97	95.39	0.63
Valle	39456.43	TR200	1185.00	50.09	55.31	54.49	56.17	0.004362	4.22	305.96	96.33	0.64

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	39400.91	TR5	577.00	50.15	53.57	52.96	54.19	0.005136	3.57	172.85	79.57	0.65
Valle	39400.91	TR10	656.00	50.15	53.79	53.23	54.46	0.005052	3.72	190.79	80.38	0.66
Valle	39400.91	TR20	747.00	50.15	54.04	53.48	54.75	0.004928	3.86	210.95	81.19	0.66
Valle	39400.91	TR50	892.00	50.15	54.36	53.81	55.16	0.004997	4.12	237.28	82.09	0.67
Valle	39400.91	TR100	1026.00	50.15	54.62	54.07	55.51	0.005123	4.36	258.99	83.58	0.69
Valle	39400.91	TR200	1185.00	50.15	54.88	54.35	55.90	0.005414	4.67	281.03	87.61	0.71
Valle	39352.67	TR5	577.00	50.01	53.64	52.63	54.01	0.002796	2.79	227.70	92.99	0.49
Valle	39352.67	TR10	656.00	50.01	53.89	52.85	54.28	0.002715	2.88	251.02	93.46	0.49
Valle	39352.67	TR20	747.00	50.01	54.17	53.09	54.58	0.002639	2.99	276.54	94.05	0.49
Valle	39352.67	TR50	892.00	50.01	54.53	53.38	54.99	0.002656	3.18	310.45	94.91	0.50
Valle	39352.67	TR100	1026.00	50.01	54.82	53.61	55.34	0.002699	3.36	338.82	95.91	0.51
Valle	39352.67	TR200	1185.00	50.01	55.14	53.87	55.72	0.002764	3.56	369.55	96.60	0.52
Valle	39335	Bridge										
Valle	39319.83	TR5	577.00	49.92	53.52	52.47	53.82	0.002335	2.57	250.19	97.64	0.45
Valle	39319.83	TR10	656.00	49.92	53.77	52.68	54.09	0.002251	2.65	275.51	97.93	0.45
Valle	39319.83	TR20	747.00	49.92	54.06	52.85	54.39	0.002177	2.74	303.11	98.24	0.44
Valle	39319.83	TR50	892.00	49.92	54.41	53.10	54.80	0.002211	2.93	338.24	98.75	0.45
Valle	39319.83	TR100	1026.00	49.92	54.71	53.31	55.14	0.002266	3.10	367.24	99.20	0.46
Valle	39319.83	TR200	1185.00	49.92	55.02	53.55	55.50	0.002354	3.30	398.23	100.01	0.48
Valle	39286.41	TR5	577.00	49.57	53.28	52.35	53.72	0.003487	3.03	205.03	87.35	0.54
Valle	39286.41	TR10	656.00	49.57	53.53	52.59	54.00	0.003366	3.13	227.62	90.80	0.54
Valle	39286.41	TR20	747.00	49.57	53.81	52.84	54.31	0.003209	3.22	253.55	91.80	0.53
Valle	39286.41	TR50	892.00	49.57	54.15	53.10	54.71	0.003254	3.44	284.76	91.99	0.55
Valle	39286.41	TR100	1026.00	49.57	54.43	53.41	55.04	0.003341	3.64	309.95	92.15	0.56
Valle	39286.41	TR200	1185.00	49.57	54.71	53.72	55.41	0.003485	3.88	336.22	92.31	0.58
Valle	39243.29	TR5	577.00	49.53	53.14	52.21	53.58	0.003386	2.99	205.84	80.79	0.54
Valle	39243.29	TR10	656.00	49.53	53.39	52.36	53.86	0.003302	3.11	226.41	83.25	0.54
Valle	39243.29	TR20	747.00	49.53	53.67	52.59	54.17	0.003185	3.22	249.89	84.02	0.54
Valle	39243.29	TR50	892.00	49.53	53.99	52.95	54.57	0.003330	3.48	276.85	84.85	0.55
Valle	39243.29	TR100	1026.00	49.53	54.24	53.20	54.90	0.003547	3.73	297.82	86.99	0.58
Valle	39243.29	TR200	1185.00	49.53	54.49	53.50	55.25	0.003799	4.02	320.09	87.17	0.60
Valle	39206.79	TR5	577.00	49.36	52.98	52.13	53.44	0.003767	3.08	198.53	81.63	0.56
Valle	39206.79	TR10	656.00	49.36	53.24	52.30	53.73	0.003577	3.17	220.36	82.78	0.56
Valle	39206.79	TR20	747.00	49.36	53.53	52.55	54.05	0.003401	3.27	244.47	83.97	0.55
Valle	39206.79	TR50	892.00	49.36	53.84	52.84	54.44	0.003582	3.55	270.45	85.45	0.57
Valle	39206.79	TR100	1026.00	49.36	54.07	53.14	54.76	0.003839	3.81	290.31	87.24	0.60
Valle	39206.79	TR200	1185.00	49.36	54.30	53.42	55.11	0.004177	4.12	310.63	88.03	0.63
Valle	39155.52	TR5	577.00	49.40	53.04	51.61	53.30	0.002036	2.31	261.33	101.52	0.42
Valle	39155.52	TR10	656.00	49.40	53.32	51.79	53.60	0.001944	2.39	291.12	122.09	0.41
Valle	39155.52	TR20	747.00	49.40	53.63	52.01	53.92	0.001824	2.45	331.20	129.19	0.40
Valle	39155.52	TR50	892.00	49.40	53.99	52.31	54.31	0.001816	2.60	377.60	129.19	0.41
Valle	39155.52	TR100	1026.00	49.40	54.27	52.57	54.63	0.001848	2.74	414.16	129.19	0.42
Valle	39155.52	TR200	1185.00	49.40	54.57	52.88	54.97	0.001904	2.91	452.67	129.19	0.43
Valle	39132	Bridge										
Valle	39109.88	TR5	577.00	48.53	53.02	50.59	53.16	0.000761	1.68	358.84	113.86	0.27
Valle	39109.88	TR10	656.00	48.53	53.31	50.75	53.46	0.000772	1.77	391.27	116.23	0.27
Valle	39109.88	TR20	747.00	48.53	53.61	50.92	53.78	0.000780	1.86	427.46	118.92	0.27
Valle	39109.88	TR50	892.00	48.53	53.96	51.20	54.16	0.000857	2.05	469.03	123.16	0.29
Valle	39109.88	TR100	1026.00	48.53	54.23	51.45	54.46	0.000933	2.21	502.66	125.44	0.31
Valle	39109.88	TR200	1185.00	48.53	54.51	51.72	54.79	0.001022	2.40	538.59	127.52	0.32
Valle	39046.46	TR5	577.00	47.02	52.60	51.10	53.08	0.003023	3.10	195.48	85.49	0.51
Valle	39046.46	TR10	656.00	47.02	52.85	51.36	53.37	0.003080	3.25	219.71	104.14	0.52
Valle	39046.46	TR20	747.00	47.02	53.17	51.63	53.70	0.002949	3.31	255.24	115.94	0.52
Valle	39046.46	TR50	892.00	47.02	53.48	52.20	54.07	0.003072	3.54	291.57	117.47	0.53
Valle	39046.46	TR100	1026.00	47.02	53.71	52.70	54.36	0.003258	3.77	318.62	118.97	0.56
Valle	39046.46	TR200	1185.00	47.02	53.94	53.25	54.68	0.003506	4.04	346.27	119.85	0.58
Valle	39001.37	TR5	577.00	47.23	52.38	50.93	52.93	0.003764	3.29	181.40	101.97	0.57
Valle	39001.37	TR10	656.00	47.23	52.65	51.20	53.22	0.003656	3.39	211.22	112.71	0.56
Valle	39001.37	TR20	747.00	47.23	53.01	51.54	53.56	0.003244	3.37	254.04	122.92	0.54
Valle	39001.37	TR50	892.00	47.23	53.33	52.10	53.92	0.003381	3.57	294.38	130.36	0.55
Valle	39001.37	TR100	1026.00	47.23	53.57	52.88	54.21	0.003491	3.76	326.22	133.60	0.57
Valle	39001.37	TR200	1185.00	47.23	53.82	53.19	54.52	0.003631	3.97	359.18	134.53	0.58
Valle	38950.51	TR5	577.00	47.15	51.95	51.00	52.70	0.005721	3.83	151.51	57.13	0.68
Valle	38950.51	TR10	656.00	47.15	52.13	51.27	52.98	0.006501	4.10	163.62	74.00	0.73
Valle	38950.51	TR20	747.00	47.15	52.57	51.57	53.35	0.005299	3.98	207.72	127.61	0.67
Valle	38950.51	TR50	892.00	47.15	52.67	52.50	53.69	0.006732	4.57	220.81	133.96	0.76
Valle	38950.51	TR100	1026.00	47.15	52.96	52.96	53.98	0.006305	4.65	261.67	142.16	0.75
Valle	38950.51	TR200	1185.00	47.15	53.21	53.21	54.28	0.006279	4.84	298.05	145.60	0.75
Valle	38016.02	TR5	577.00	46.85	51.61	50.81	52.52	0.006926	4.23	136.65	48.86	0.75

## HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	38016.02	TR10	656.00	46.85	51.51	51.12	52.76	0.009566	4.96	132.34	40.66	0.88
Valle	38016.02	TR20	747.00	46.85	51.51	51.51	53.13	0.012423	5.65	132.25	40.63	1.00
Valle	38016.02	TR50	892.00	46.85	52.63	52.63	53.50	0.006812	4.30	244.06	153.82	0.75
Valle	38016.02	TR100	1026.00	46.85	52.84	52.84	53.75	0.006718	4.45	277.26	155.21	0.75
Valle	38016.02	TR200	1185.00	46.85	53.06	53.06	54.01	0.006748	4.64	311.18	156.79	0.76
Valle	37851.49	TR5	577.00	46.61	51.80	51.14	52.01	0.001810	2.38	329.25	177.24	0.39
Valle	37851.49	TR10	656.00	46.61	51.97	51.26	52.19	0.001823	2.45	360.37	178.61	0.40
Valle	37851.49	TR20	747.00	46.61	52.16	51.38	52.39	0.001846	2.53	393.85	179.81	0.40
Valle	37851.49	TR50	892.00	46.61	52.43	51.56	52.68	0.001861	2.64	443.34	185.18	0.41
Valle	37851.49	TR100	1026.00	46.61	52.66	51.71	52.93	0.001871	2.74	487.83	211.25	0.41
Valle	37851.49	TR200	1185.00	46.61	52.91	51.87	53.19	0.001884	2.85	542.75	223.84	0.42
Valle	37691.15	TR5	577.00	46.38	51.56	50.70	51.74	0.001607	2.17	339.17	161.76	0.37
Valle	37691.15	TR10	656.00	46.38	51.72	50.83	51.91	0.001697	2.25	365.37	163.37	0.38
Valle	37691.15	TR20	747.00	46.38	51.89	50.99	52.10	0.001751	2.36	394.41	172.65	0.39
Valle	37691.15	TR50	892.00	46.38	52.15	51.13	52.39	0.001818	2.51	439.00	175.21	0.40
Valle	37691.15	TR100	1026.00	46.38	52.37	51.28	52.63	0.001872	2.64	477.51	178.17	0.41
Valle	37691.15	TR200	1185.00	46.38	52.60	51.44	52.89	0.001948	2.79	518.69	179.81	0.42
Valle	37446.51	TR5	577.00	45.72	51.04	50.20	51.28	0.002115	2.40	291.81	151.16	0.42
Valle	37446.51	TR10	656.00	45.72	51.13	50.37	51.42	0.002410	2.61	305.67	153.74	0.46
Valle	37446.51	TR20	747.00	45.72	51.25	50.53	51.58	0.002652	2.80	324.13	154.03	0.48
Valle	37446.51	TR50	892.00	45.72	51.43	50.77	51.82	0.002988	3.08	352.06	154.45	0.51
Valle	37446.51	TR100	1026.00	45.72	51.58	50.93	52.03	0.003282	3.31	375.35	154.81	0.54
Valle	37446.51	TR200	1185.00	45.72	51.69	51.13	52.24	0.003841	3.65	392.48	155.07	0.59
Valle	37294.49	TR5	577.00	45.66	50.86	49.70	51.01	0.001604	1.85	390.08	291.76	0.36
Valle	37294.49	TR10	656.00	45.66	50.93	49.87	51.10	0.001823	2.00	410.84	292.29	0.39
Valle	37294.49	TR20	747.00	45.66	51.05	50.22	51.24	0.001894	2.10	447.90	293.23	0.40
Valle	37294.49	TR50	892.00	45.66	51.26	50.51	51.46	0.001910	2.21	509.77	295.88	0.40
Valle	37294.49	TR100	1026.00	45.66	51.45	50.68	51.66	0.001895	2.29	564.71	296.52	0.40
Valle	37294.49	TR200	1185.00	45.66	51.57	50.84	51.81	0.002125	2.48	599.76	296.93	0.43
Valle	37070.25	TR5	577.00	45.20	50.52	49.84	50.63	0.001746	1.72	420.06	285.67	0.36
Valle	37070.25	TR10	656.00	45.20	50.47	49.94	50.62	0.002499	2.03	406.14	285.32	0.43
Valle	37070.25	TR20	747.00	45.20	50.57	50.03	50.74	0.002639	2.14	434.65	286.04	0.45
Valle	37070.25	TR50	892.00	45.20	50.80	50.16	50.98	0.002440	2.18	501.33	289.15	0.43
Valle	37070.25	TR100	1026.00	45.20	51.01	50.25	51.20	0.002243	2.21	562.56	289.72	0.42
Valle	37070.25	TR200	1185.00	45.20	50.99	50.32	51.24	0.003122	2.59	555.10	289.65	0.50
Valle	36864.26	TR5	577.00	45.13	50.36	49.49	50.42	0.000656	1.36	625.99	390.83	0.24
Valle	36864.26	TR10	656.00	45.13	50.17	49.53	50.27	0.001192	1.77	554.09	383.88	0.32
Valle	36864.26	TR20	747.00	45.13	50.23	49.61	50.35	0.001373	1.92	577.48	386.29	0.34
Valle	36864.26	TR50	892.00	45.13	50.53	49.73	50.63	0.001166	1.87	691.74	392.88	0.32
Valle	36864.26	TR100	1026.00	45.13	50.79	49.82	50.89	0.001014	1.83	793.87	394.76	0.30
Valle	36864.26	TR200	1185.00	45.13	50.49	49.93	50.69	0.002200	2.55	676.39	392.43	0.43
Valle	36819.22	TR5	577.00	44.71	48.86	48.86	50.34	0.012759	5.39	106.99	190.83	1.00
Valle	36819.22	TR10	656.00	44.71	50.14	49.14	50.22	0.001024	1.68	602.23	411.89	0.29
Valle	36819.22	TR20	747.00	44.71	50.19	49.44	50.29	0.001192	1.83	624.69	412.06	0.31
Valle	36819.22	TR50	892.00	44.71	50.50	49.86	50.58	0.000978	1.75	749.83	412.81	0.29
Valle	36819.22	TR100	1026.00	44.71	50.76	49.97	50.85	0.000851	1.71	859.25	414.64	0.27
Valle	36819.22	TR200	1185.00	44.71	50.42	50.10	50.59	0.001977	2.46	717.22	412.62	0.41
Valle	36683.44	TR5	577.00	44.90	49.78	48.99	49.84	0.000718	1.45	609.93	382.98	0.25
Valle	36683.44	TR10	656.00	44.90	50.07	49.06	50.12	0.000555	1.34	720.89	384.01	0.22
Valle	36683.44	TR20	747.00	44.90	50.11	49.13	50.17	0.000676	1.49	735.66	384.15	0.24
Valle	36683.44	TR50	892.00	44.90	50.42	49.23	50.48	0.000600	1.48	855.47	385.06	0.23
Valle	36683.44	TR100	1026.00	44.90	50.69	49.31	50.76	0.000551	1.48	959.60	385.82	0.23
Valle	36683.44	TR200	1185.00	44.90	50.23	49.40	50.37	0.001395	2.19	783.81	384.54	0.35
Valle	36449.28	TR5	577.00	43.94	48.04	48.04	49.42	0.012658	5.19	111.14	158.74	1.00
Valle	36449.28	TR10	656.00	43.94	48.34	48.34	49.78	0.012439	5.32	123.24	200.21	1.00
Valle	36449.28	TR20	747.00	43.94	48.86	48.86	49.81	0.008014	4.52	189.41	253.60	0.81
Valle	36449.28	TR50	892.00	43.94	49.18	49.18	50.15	0.007980	4.65	220.53	289.89	0.82
Valle	36449.28	TR100	1026.00	43.94	49.36	49.36	50.44	0.008640	4.92	239.08	302.25	0.86
Valle	36449.28	TR200	1185.00	43.94	49.55	49.55	49.90	0.003866	3.25	520.92	324.08	0.57
Valle	36291.36	TR5	577.00	43.98	48.49	47.02	48.63	0.001342	1.84	440.09	369.01	0.34
Valle	36291.36	TR10	656.00	43.98	48.62	47.23	48.76	0.001364	1.91	486.62	382.93	0.34
Valle	36291.36	TR20	747.00	43.98	48.74	47.47	48.88	0.001424	2.00	532.12	385.56	0.35
Valle	36291.36	TR50	892.00	43.98	48.92	48.23	49.08	0.001459	2.09	603.88	386.15	0.36
Valle	36291.36	TR100	1026.00	43.98	49.06	48.37	49.23	0.001537	2.21	656.52	386.59	0.37
Valle	36291.36	TR200	1185.00	43.98	49.23	48.50	49.41	0.001572	2.30	721.72	387.13	0.38
Valle	35747.93	TR5	577.00	42.59	48.03	45.97	48.15	0.000827	1.80	534.81	460.47	0.27
Valle	35747.93	TR10	656.00	42.59	48.17	46.20	48.29	0.000834	1.85	597.66	461.62	0.28
Valle	35747.93	TR20	747.00	42.59	48.26	46.46	48.39	0.000919	1.97	639.41	462.03	0.29
Valle	35747.93	TR50	892.00	42.59	48.47	46.84	48.60	0.000922	2.03	734.74	462.96	0.29
Valle	35747.93	TR100	1026.00	42.59	48.56	47.91	48.71	0.001050	2.19	777.62	463.38	0.31
Valle	35747.93	TR200	1185.00	42.59	48.74	48.03	48.89	0.001055	2.25	862.76	464.21	0.32

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	35545.42	TR5	577.00	42.34	47.85	47.14	47.96	0.001283	2.01	514.95	442.93	0.32
Valle	35545.42	TR10	656.00	42.34	48.00	47.45	48.11	0.001179	1.97	582.07	443.77	0.31
Valle	35545.42	TR20	747.00	42.34	48.07	47.81	48.19	0.001319	2.11	612.91	443.94	0.33
Valle	35545.42	TR50	892.00	42.34	48.29	47.81	48.40	0.001224	2.10	709.78	444.49	0.32
Valle	35545.42	TR100	1026.00	42.34	48.35	47.81	48.48	0.001458	2.32	735.17	444.64	0.35
Valle	35545.42	TR200	1185.00	42.34	48.54	47.87	48.67	0.001400	2.34	819.46	445.12	0.35
Valle	35351.76	TR5	577.00	42.14	47.68	46.96	47.76	0.000966	1.63	530.09	352.85	0.28
Valle	35351.76	TR10	656.00	42.14	47.83	47.05	47.91	0.000936	1.65	584.50	353.36	0.28
Valle	35351.76	TR20	747.00	42.14	47.86	47.06	47.96	0.001152	1.84	594.73	353.46	0.31
Valle	35351.76	TR50	892.00	42.14	48.08	47.27	48.19	0.001136	1.90	672.06	354.19	0.31
Valle	35351.76	TR100	1026.00	42.14	48.06	47.36	48.21	0.001543	2.21	666.20	354.13	0.36
Valle	35351.76	TR200	1185.00	42.14	48.25	47.50	48.41	0.001537	2.28	732.88	355.92	0.37
Valle	35040.81	TR5	577.00	42.13	47.31	44.82	47.47	0.001227	1.80	365.85	357.77	0.32
Valle	35040.81	TR10	656.00	42.13	47.64	45.01	47.71	0.000654	1.37	625.82	366.03	0.24
Valle	35040.81	TR20	747.00	42.13	47.29	45.23	47.56	0.002122	2.36	360.46	357.40	0.42
Valle	35040.81	TR50	892.00	42.13	47.44	45.56	47.76	0.002504	2.61	395.48	360.77	0.46
Valle	35040.81	TR100	1026.00	42.13	47.60	45.83	47.79	0.001694	2.19	612.55	365.96	0.38
Valle	35040.81	TR200	1185.00	42.13	47.80	46.15	48.00	0.001658	2.25	686.64	366.35	0.38
Valle	34798.32	TR5	577.00	41.31	45.40	45.40	46.78	0.012686	5.20	110.96	55.94	1.00
Valle	34798.32	TR10	656.00	41.31	45.84	45.84	47.12	0.012943	5.02	130.66	158.16	1.00
Valle	34798.32	TR20	747.00	41.31	46.68	46.68	46.93	0.003431	2.64	413.73	386.64	0.52
Valle	34798.32	TR50	892.00	41.31	46.89	46.68	47.12	0.003043	2.61	493.74	388.33	0.50
Valle	34798.32	TR100	1026.00	41.31	47.13	46.70	47.33	0.002454	2.48	587.49	389.21	0.45
Valle	34798.32	TR200	1185.00	41.31	47.41	46.78	47.60	0.001958	2.35	699.07	391.17	0.41
Valle	34614.50	TR5	577.00	41.12	46.24	43.59	46.35	0.000652	1.48	500.26	386.87	0.24
Valle	34614.50	TR10	656.00	41.12	46.39	43.81	46.49	0.000693	1.56	555.29	392.08	0.25
Valle	34614.50	TR20	747.00	41.12	46.55	44.01	46.66	0.000720	1.62	618.44	409.41	0.26
Valle	34614.50	TR50	892.00	41.12	46.80	44.34	46.92	0.000724	1.68	727.28	422.18	0.26
Valle	34614.50	TR100	1026.00	41.12	47.04	44.57	47.15	0.000701	1.72	826.77	425.28	0.26
Valle	34614.50	TR200	1185.00	41.12	47.33	44.83	47.44	0.000649	1.72	951.57	427.48	0.25
Valle	34274.00	TR5	577.00	40.26	45.97	43.62	46.09	0.000940	1.82	465.92	450.74	0.28
Valle	34274.00	TR10	656.00	40.26	46.10	43.87	46.23	0.000992	1.91	506.53	451.30	0.29
Valle	34274.00	TR20	747.00	40.26	46.25	44.14	46.39	0.001014	1.97	556.22	451.98	0.30
Valle	34274.00	TR50	892.00	40.26	46.51	44.56	46.65	0.001006	2.03	638.11	453.44	0.30
Valle	34274.00	TR100	1026.00	40.26	46.76	45.62	46.90	0.000970	2.03	716.89	456.15	0.30
Valle	34274.00	TR200	1185.00	40.26	47.08	45.82	47.21	0.000891	2.00	817.90	459.68	0.29
Valle	33671.77	TR5	577.00	39.69	45.76	43.78	45.80	0.000417	1.21	858.44	737.95	0.19
Valle	33671.77	TR10	656.00	39.69	45.92	44.04	45.95	0.000377	1.14	1008.33	748.42	0.18
Valle	33671.77	TR20	747.00	39.69	46.11	44.33	46.14	0.000337	1.11	1147.48	754.91	0.17
Valle	33671.77	TR50	892.00	39.69	46.40	45.24	46.43	0.000282	1.07	1373.28	759.94	0.16
Valle	33671.77	TR100	1026.00	39.69	46.68	45.31	46.71	0.000242	1.03	1582.87	760.79	0.15
Valle	33671.77	TR200	1185.00	39.69	47.02	45.42	47.05	0.000200	0.98	1844.73	761.91	0.14
Valle	32779.42	TR5	577.00	38.58	45.45	44.64	45.50	0.000593	1.39	726.23	539.34	0.22
Valle	32779.42	TR10	656.00	38.58	45.65	44.70	45.70	0.000502	1.32	837.43	539.89	0.20
Valle	32779.42	TR20	747.00	38.58	45.88	44.70	45.92	0.000433	1.27	957.97	540.49	0.19
Valle	32779.42	TR50	892.00	38.58	46.22	44.74	46.25	0.000359	1.21	1142.05	542.61	0.18
Valle	32779.42	TR100	1026.00	38.58	46.52	45.08	46.56	0.000310	1.17	1306.68	543.65	0.17
Valle	32779.42	TR200	1185.00	38.58	46.89	45.12	46.93	0.000262	1.13	1508.31	544.93	0.15
Valle	32347.42	TR5	577.00	38.19	45.30	41.87	45.36	0.000369	1.27	633.99	299.39	0.18
Valle	32347.42	TR10	656.00	38.19	45.52	42.15	45.58	0.000369	1.31	697.82	300.19	0.19
Valle	32347.42	TR20	747.00	38.19	45.74	42.47	45.81	0.000369	1.35	766.70	300.85	0.19
Valle	32347.42	TR50	892.00	38.19	46.09	42.96	46.16	0.000365	1.40	871.49	302.38	0.19
Valle	32347.42	TR100	1026.00	38.19	46.40	44.18	46.47	0.000358	1.43	965.08	303.48	0.19
Valle	32347.42	TR200	1185.00	38.19	46.78	44.36	46.85	0.000340	1.46	1080.10	304.82	0.19
Valle	32093.57	TR5	577.00	37.36	45.28	40.68	45.31	0.000145	0.90	858.01	333.07	0.12
Valle	32093.57	TR10	656.00	37.36	45.49	40.86	45.53	0.000153	0.94	928.51	334.26	0.12
Valle	32093.57	TR20	747.00	37.36	45.72	41.07	45.76	0.000161	0.99	1004.82	335.54	0.13
Valle	32093.57	TR50	892.00	37.36	46.06	41.36	46.11	0.000170	1.06	1121.33	336.81	0.13
Valle	32093.57	TR100	1026.00	37.36	46.37	41.64	46.42	0.000175	1.11	1225.62	338.77	0.14
Valle	32093.57	TR200	1185.00	37.36	46.75	41.95	46.80	0.000175	1.15	1354.34	339.79	0.14
Valle	31897.06	TR5	577.00	37.28	45.23	41.22	45.28	0.000234	1.12	682.89	260.53	0.15
Valle	31897.06	TR10	656.00	37.28	45.44	41.43	45.49	0.000247	1.18	737.31	261.43	0.16
Valle	31897.06	TR20	747.00	37.28	45.66	41.67	45.72	0.000260	1.24	796.20	262.30	0.16
Valle	31897.06	TR50	892.00	37.28	46.01	42.04	46.07	0.000275	1.33	886.35	263.52	0.17
Valle	31897.06	TR100	1026.00	37.28	46.31	42.36	46.38	0.000284	1.39	967.17	264.76	0.17
Valle	31897.06	TR200	1185.00	37.28	46.69	42.73	46.77	0.000286	1.45	1067.55	268.43	0.17
Valle	31779.43	TR5	577.00	37.09	45.21	40.70	45.26	0.000185	1.04	681.15	244.35	0.14
Valle	31779.43	TR10	656.00	37.09	45.41	40.88	45.47	0.000206	1.12	731.73	248.74	0.15
Valle	31779.43	TR20	747.00	37.09	45.63	41.10	45.70	0.000222	1.19	786.99	249.64	0.15
Valle	31779.43	TR50	892.00	37.09	45.97	41.40	46.04	0.000244	1.29	871.79	251.00	0.16
Valle	31779.43	TR100	1026.00	37.09	46.28	41.66	46.35	0.000258	1.37	948.08	252.17	0.17
Valle	31779.43	TR200	1185.00	37.09	46.65	41.95	46.74	0.000264	1.44	1043.14	253.19	0.17

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	31716.97	TR5	577.00	37.07	45.19	40.44	45.24	0.000208	1.10	680.84	247.42	0.14
Valle	31716.97	TR10	656.00	37.07	45.40	40.66	45.45	0.000224	1.17	731.47	247.86	0.15
Valle	31716.97	TR20	747.00	37.07	45.62	40.90	45.68	0.000240	1.24	786.34	248.41	0.16
Valle	31716.97	TR50	892.00	37.07	45.96	41.27	46.03	0.000260	1.33	870.50	249.47	0.17
Valle	31716.97	TR100	1026.00	37.07	46.26	41.59	46.34	0.000273	1.41	946.18	250.47	0.17
Valle	31716.97	TR200	1185.00	37.07	46.64	41.97	46.72	0.000278	1.47	1040.85	253.11	0.17
Valle	31541.62	TR5	577.00	36.67	45.10	41.40	45.18	0.001016	1.49	568.79	276.29	0.21
Valle	31541.62	TR10	656.00	36.67	45.30	41.75	45.39	0.001022	1.53	625.37	277.27	0.21
Valle	31541.62	TR20	747.00	36.67	45.53	42.26	45.61	0.001027	1.57	686.88	278.80	0.21
Valle	31541.62	TR50	892.00	36.67	45.87	43.95	45.95	0.001015	1.63	781.74	279.47	0.21
Valle	31541.62	TR100	1026.00	36.67	46.17	44.32	46.26	0.000992	1.66	867.17	280.08	0.21
Valle	31541.62	TR200	1185.00	36.67	46.55	44.53	46.64	0.000940	1.68	989.81	293.88	0.21
Valle	31254.47	TR5	577.00	35.94	44.83	41.41	44.90	0.001141	1.55	556.44	256.48	0.21
Valle	31254.47	TR10	656.00	35.94	45.03	41.90	45.11	0.001144	1.58	609.26	258.04	0.21
Valle	31254.47	TR20	747.00	35.94	45.25	43.39	45.34	0.001144	1.62	666.81	259.33	0.21
Valle	31254.47	TR50	892.00	35.94	45.60	43.63	45.69	0.001122	1.67	756.91	260.88	0.21
Valle	31254.47	TR100	1026.00	35.94	45.91	43.89	46.00	0.001088	1.70	838.99	262.08	0.21
Valle	31254.47	TR200	1185.00	35.94	46.31	44.04	46.40	0.001012	1.70	943.82	263.61	0.20
Valle	31039.65	TR5	577.00	35.67	44.60	39.90	44.69	0.000984	1.52	545.08	267.16	0.20
Valle	31039.65	TR10	656.00	35.67	44.80	40.24	44.89	0.001009	1.58	599.38	268.49	0.21
Valle	31039.65	TR20	747.00	35.67	45.02	40.63	45.12	0.001026	1.63	658.91	269.42	0.21
Valle	31039.65	TR50	892.00	35.67	45.37	41.26	45.47	0.001022	1.69	753.80	272.01	0.21
Valle	31039.65	TR100	1026.00	35.67	45.70	41.78	45.80	0.000995	1.72	841.84	273.68	0.21
Valle	31039.65	TR200	1185.00	35.67	46.11	42.47	46.21	0.000921	1.72	956.63	275.84	0.21
Valle	30820.78	TR5	577.00	34.89	44.43	39.98	44.50	0.000864	1.45	663.84	357.18	0.18
Valle	30820.78	TR10	656.00	34.89	44.64	40.37	44.71	0.000842	1.46	738.71	357.94	0.18
Valle	30820.78	TR20	747.00	34.89	44.87	40.80	44.93	0.000817	1.48	820.58	358.78	0.18
Valle	30820.78	TR50	892.00	34.89	45.24	41.51	45.30	0.000763	1.47	951.62	360.11	0.17
Valle	30820.78	TR100	1026.00	34.89	45.57	43.82	45.63	0.000709	1.46	1072.66	361.21	0.17
Valle	30820.78	TR200	1185.00	34.89	46.01	43.96	46.06	0.000628	1.43	1230.47	364.71	0.16
Valle	30566.36	TR5	577.00	34.62	44.31	38.31	44.36	0.000434	1.12	764.46	402.44	0.14
Valle	30566.36	TR10	656.00	34.62	44.52	38.58	44.57	0.000458	1.16	847.95	407.22	0.15
Valle	30566.36	TR20	747.00	34.62	44.75	38.87	44.80	0.000473	1.19	941.51	412.32	0.15
Valle	30566.36	TR50	892.00	34.62	45.12	39.30	45.17	0.000462	1.22	1095.19	414.75	0.15
Valle	30566.36	TR100	1026.00	34.62	45.46	39.68	45.52	0.000441	1.24	1238.59	417.57	0.15
Valle	30566.36	TR200	1185.00	34.62	45.91	40.09	45.96	0.000397	1.22	1427.08	420.02	0.14
Valle	30391.41	TR5	577.00	34.69	44.23	39.71	44.28	0.000742	1.25	733.24	390.37	0.17
Valle	30391.41	TR10	656.00	34.69	44.44	40.11	44.49	0.000716	1.26	814.77	391.16	0.17
Valle	30391.41	TR20	747.00	34.69	44.67	40.55	44.72	0.000688	1.27	905.11	392.14	0.17
Valle	30391.41	TR50	892.00	34.69	45.05	41.22	45.10	0.000627	1.27	1054.12	394.34	0.16
Valle	30391.41	TR100	1026.00	34.69	45.40	43.48	45.45	0.000572	1.25	1192.59	395.92	0.16
Valle	30391.41	TR200	1185.00	34.69	45.86	43.63	45.90	0.000494	1.22	1374.68	398.27	0.15
Valle	30048.68	TR5	577.00	34.37	43.98	39.96	44.05	0.000840	1.49	682.61	420.81	0.19
Valle	30048.68	TR10	656.00	34.37	44.21	40.33	44.28	0.000779	1.47	779.97	421.73	0.18
Valle	30048.68	TR20	747.00	34.37	44.47	40.72	44.53	0.000721	1.45	886.01	422.72	0.18
Valle	30048.68	TR50	892.00	34.37	44.88	41.29	44.93	0.000626	1.40	1059.81	425.65	0.17
Valle	30048.68	TR100	1026.00	34.37	45.26	41.77	45.30	0.000528	1.33	1255.46	440.53	0.15
Valle	30048.68	TR200	1185.00	34.37	45.74	43.62	45.78	0.000431	1.25	1503.60	457.53	0.14
Valle	29865.97	TR5	577.00	34.14	43.76	40.27	43.87	0.001569	1.77	544.93	392.72	0.25
Valle	29865.97	TR10	656.00	34.14	44.03	40.73	44.11	0.001311	1.67	649.93	393.21	0.23
Valle	29865.97	TR20	747.00	34.14	44.30	41.20	44.38	0.001124	1.60	758.97	393.78	0.22
Valle	29865.97	TR50	892.00	34.14	44.76	41.91	44.81	0.000815	1.44	985.45	416.08	0.19
Valle	29865.97	TR100	1026.00	34.14	45.16	43.55	45.21	0.000664	1.35	1178.37	433.33	0.17
Valle	29865.97	TR200	1185.00	34.14	45.66	43.65	45.71	0.000524	1.26	1398.40	433.33	0.15
Valle	29664.58	TR5	577.00	33.69	43.68	38.90	43.72	0.000442	1.10	871.01	433.15	0.14
Valle	29664.58	TR10	656.00	33.69	43.95	39.22	43.99	0.000412	1.08	987.02	434.49	0.13
Valle	29664.58	TR20	747.00	33.69	44.23	39.57	44.26	0.000386	1.07	1108.49	435.74	0.13
Valle	29664.58	TR50	892.00	33.69	44.69	40.10	44.72	0.000341	1.05	1308.61	437.82	0.12
Valle	29664.58	TR100	1026.00	33.69	45.10	40.57	45.13	0.000285	1.00	1579.14	474.94	0.11
Valle	29664.58	TR200	1185.00	33.69	45.62	41.08	45.64	0.000244	0.96	1824.71	474.94	0.11
Valle	29386.48	TR5	577.00	33.35	43.58	38.62	43.62	0.000355	1.01	780.90	290.86	0.13
Valle	29386.48	TR10	656.00	33.35	43.85	38.83	43.89	0.000360	1.04	858.63	291.63	0.13
Valle	29386.48	TR20	747.00	33.35	44.12	39.07	44.17	0.000368	1.08	940.08	292.44	0.13
Valle	29386.48	TR50	892.00	33.35	44.59	39.42	44.63	0.000363	1.12	1075.63	294.87	0.13
Valle	29386.48	TR100	1026.00	33.35	45.01	39.72	45.06	0.000322	1.10	1292.49	329.91	0.13
Valle	29386.48	TR200	1185.00	33.35	45.54	40.06	45.58	0.000297	1.10	1465.65	329.91	0.12
Valle	29169.83	TR5	577.00	32.91	43.50	38.20	43.54	0.000471	1.13	824.34	366.94	0.14
Valle	29169.83	TR10	656.00	32.91	43.77	38.59	43.81	0.000442	1.12	924.47	367.92	0.13
Valle	29169.83	TR20	747.00	32.91	44.06	39.01	44.09	0.000422	1.13	1028.80	368.94	0.13
Valle	29169.83	TR50	892.00	32.91	44.53	39.63	44.56	0.000381	1.11	1203.05	373.13	0.13
Valle	29169.83	TR100	1026.00	32.91	44.96	40.16	45.00	0.000322	1.06	1448.35	405.68	0.12

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	29169.83	TR200	1185.00	32.91	45.50	42.53	45.53	0.000279	1.03	1664.46	405.68	0.11
Valle	29015.68	TR5	577.00	32.55	43.46	38.31	43.49	0.000358	0.96	924.09	388.76	0.12
Valle	29015.68	TR10	656.00	32.55	43.73	38.67	43.76	0.000342	0.97	1031.21	390.50	0.12
Valle	29015.68	TR20	747.00	32.55	44.02	39.07	44.05	0.000328	0.97	1142.70	391.35	0.12
Valle	29015.68	TR50	892.00	32.55	44.49	39.66	44.52	0.000295	0.97	1350.11	407.53	0.12
Valle	29015.68	TR100	1026.00	32.55	44.93	40.18	44.96	0.000269	0.96	1547.50	418.90	0.11
Valle	29015.68	TR200	1185.00	32.55	45.47	42.23	45.50	0.000235	0.94	1772.43	418.90	0.11
Valle	28759.46	TR5	577.00	32.68	43.39	37.83	43.42	0.000358	0.98	964.96	438.68	0.12
Valle	28759.46	TR10	656.00	32.68	43.67	38.20	43.70	0.000329	0.96	1088.77	439.62	0.12
Valle	28759.46	TR20	747.00	32.68	43.96	38.60	43.99	0.000308	0.96	1216.62	440.59	0.11
Valle	28759.46	TR50	892.00	32.68	44.45	39.19	44.47	0.000256	0.91	1487.43	463.07	0.11
Valle	28759.46	TR100	1026.00	32.68	44.90	39.70	44.92	0.000218	0.87	1744.56	480.28	0.10
Valle	28759.46	TR200	1185.00	32.68	45.44	40.27	45.46	0.000188	0.85	2005.50	480.28	0.09
Valle	28555.6	TR5	577.00	32.36	43.35	36.78	43.38	0.000235	0.86	995.57	359.53	0.10
Valle	28555.6	TR10	656.00	32.36	43.63	37.10	43.66	0.000233	0.88	1097.53	361.25	0.10
Valle	28555.6	TR20	747.00	32.36	43.92	37.44	43.95	0.000234	0.90	1202.96	363.39	0.11
Valle	28555.6	TR50	892.00	32.36	44.42	37.95	44.44	0.000206	0.89	1459.62	391.66	0.10
Valle	28555.6	TR100	1026.00	32.36	44.87	38.39	44.89	0.000187	0.87	1705.52	420.29	0.10
Valle	28555.6	TR200	1185.00	32.36	45.42	38.88	45.44	0.000170	0.87	1935.22	420.29	0.09
Valle	28457.03	TR5	577.00	32.27	43.30	36.99	43.35	0.000375	1.14	739.82	263.00	0.13
Valle	28457.03	TR10	656.00	32.27	43.58	37.35	43.63	0.000383	1.18	814.35	268.55	0.13
Valle	28457.03	TR20	747.00	32.27	43.88	37.74	43.92	0.000333	1.13	993.25	302.91	0.13
Valle	28457.03	TR50	892.00	32.27	44.38	38.29	44.42	0.000321	1.15	1142.79	303.77	0.12
Valle	28457.03	TR100	1026.00	32.27	44.83	38.77	44.87	0.000273	1.10	1385.65	334.63	0.12
Valle	28457.03	TR200	1185.00	32.27	45.38	39.32	45.42	0.000251	1.10	1569.23	334.63	0.11
Valle	27927.31	TR5	577.00	32.04	43.20	37.55	43.23	0.000308	0.92	971.34	379.09	0.11
Valle	27927.31	TR10	656.00	32.04	43.49	38.00	43.52	0.000291	0.92	1081.15	380.08	0.11
Valle	27927.31	TR20	747.00	32.04	43.80	38.52	43.82	0.000279	0.93	1197.90	381.37	0.11
Valle	27927.31	TR50	892.00	32.04	44.31	39.14	44.33	0.000245	0.91	1435.98	404.07	0.10
Valle	27927.31	TR100	1026.00	32.04	44.78	41.06	44.80	0.000204	0.86	1724.14	437.80	0.09
Valle	27927.31	TR200	1185.00	32.04	45.34	41.50	45.36	0.000180	0.84	1968.18	437.80	0.09
Valle	27499.75	TR5	577.00	31.92	43.08	37.49	43.12	0.000390	1.08	768.20	286.87	0.13
Valle	27499.75	TR10	656.00	31.92	43.37	37.90	43.41	0.000382	1.10	853.14	287.96	0.13
Valle	27499.75	TR20	747.00	31.92	43.68	38.43	43.73	0.000377	1.13	943.01	289.42	0.13
Valle	27499.75	TR50	892.00	31.92	44.21	39.08	44.25	0.000323	1.09	1164.44	314.31	0.13
Valle	27499.75	TR100	1026.00	31.92	44.70	39.49	44.74	0.000271	1.04	1402.00	339.75	0.12
Valle	27499.75	TR200	1185.00	31.92	45.27	39.96	45.30	0.000245	1.04	1594.34	339.75	0.11
Valle	27335.83	TR5	577.00	32.09	42.99	37.35	43.05	0.000519	1.30	667.79	252.34	0.15
Valle	27335.83	TR10	656.00	32.09	43.29	37.72	43.35	0.000508	1.32	743.27	253.13	0.15
Valle	27335.83	TR20	747.00	32.09	43.61	38.14	43.67	0.000502	1.35	822.93	255.17	0.15
Valle	27335.83	TR50	892.00	32.09	44.14	38.76	44.19	0.000471	1.36	958.87	260.08	0.15
Valle	27335.83	TR100	1026.00	32.09	44.65	39.28	44.69	0.000356	1.23	1239.55	302.87	0.13
Valle	27335.83	TR200	1185.00	32.09	45.22	39.86	45.26	0.000320	1.21	1412.62	302.87	0.12
Valle	27141.15	TR5	577.00	32.06	42.93	36.94	42.98	0.000392	1.13	720.59	223.44	0.13
Valle	27141.15	TR10	656.00	32.06	43.23	37.29	43.28	0.000397	1.16	787.21	224.48	0.13
Valle	27141.15	TR20	747.00	32.06	43.54	37.68	43.59	0.000404	1.20	857.38	225.65	0.14
Valle	27141.15	TR50	892.00	32.06	44.08	38.24	44.13	0.000359	1.19	1046.23	249.14	0.13
Valle	27141.15	TR100	1026.00	32.06	44.60	38.74	44.64	0.000315	1.16	1241.29	270.41	0.12
Valle	27141.15	TR200	1185.00	32.06	45.17	39.40	45.22	0.000294	1.16	1396.70	270.41	0.12
Valle	26977.32	TR5	577.00	31.82	42.84	37.36	42.91	0.000648	1.32	606.50	213.64	0.16
Valle	26977.32	TR10	656.00	31.82	43.14	37.85	43.21	0.000638	1.35	670.61	214.76	0.16
Valle	26977.32	TR20	747.00	31.82	43.46	38.27	43.52	0.000634	1.38	748.72	225.12	0.16
Valle	26977.32	TR50	892.00	31.82	44.00	39.12	44.07	0.000585	1.39	871.63	226.47	0.16
Valle	26977.32	TR100	1026.00	31.82	44.52	39.64	44.59	0.000543	1.40	997.61	235.09	0.15
Valle	26977.32	TR200	1185.00	31.82	45.10	40.13	45.17	0.000491	1.39	1134.19	235.09	0.15
Valle	26894.95	TR5	577.00	31.17	42.85	37.02	42.87	0.000238	0.86	1111.17	468.91	0.10
Valle	26894.95	TR10	656.00	31.17	43.15	37.39	43.17	0.000219	0.85	1253.56	470.20	0.10
Valle	26894.95	TR20	747.00	31.17	43.47	37.78	43.49	0.000187	0.81	1495.33	506.28	0.09
Valle	26894.95	TR50	892.00	31.17	44.02	38.35	44.04	0.000160	0.78	1773.16	506.28	0.09
Valle	26894.95	TR100	1026.00	31.17	44.55	38.83	44.56	0.000138	0.75	2038.12	506.28	0.08
Valle	26894.95	TR200	1185.00	31.17	45.13	39.36	45.14	0.000120	0.74	2333.52	506.28	0.08
Valle	26258.51	TR5	577.00	31.25	42.69	37.32	42.73	0.000396	1.07	896.13	390.20	0.13
Valle	26258.51	TR10	656.00	31.25	43.01	37.75	43.04	0.000354	1.04	1021.80	391.63	0.12
Valle	26258.51	TR20	747.00	31.25	43.36	38.20	43.38	0.000303	0.99	1199.13	409.00	0.11
Valle	26258.51	TR50	892.00	31.25	43.93	38.87	43.95	0.000237	0.92	1496.15	430.28	0.10
Valle	26258.51	TR100	1026.00	31.25	44.47	39.46	44.49	0.000201	0.88	1727.47	430.28	0.09
Valle	26258.51	TR200	1185.00	31.25	45.06	41.64	45.08	0.000173	0.85	1983.06	430.28	0.09
Valle	25708.58	TR5	577.00	30.84	42.62	36.86	42.63	0.000168	0.70	1268.74	455.02	0.09
Valle	25708.58	TR10	656.00	30.84	42.95	37.27	42.96	0.000155	0.70	1419.13	457.17	0.08
Valle	25708.58	TR20	747.00	30.84	43.30	37.78	43.31	0.000137	0.68	1662.15	490.02	0.08
Valle	25708.58	TR50	892.00	30.84	43.89	38.45	43.90	0.000119	0.66	1948.11	490.02	0.07

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	25708.58	TR100	1026.00	30.84	44.43	38.94	44.44	0.000105	0.65	2215.19	490.02	0.07
Valle	25708.58	TR200	1185.00	30.84	45.03	40.77	45.04	0.000094	0.64	2509.05	490.02	0.07
Valle	25450.79	TR5	577.00	30.72	42.58	35.90	42.60	0.000180	0.75	1167.70	398.07	0.09
Valle	25450.79	TR10	656.00	30.72	42.91	36.29	42.93	0.000170	0.75	1300.29	399.82	0.09
Valle	25450.79	TR20	747.00	30.72	43.27	36.71	43.29	0.000159	0.75	1490.37	425.48	0.09
Valle	25450.79	TR50	892.00	30.72	43.86	37.34	43.87	0.000141	0.74	1740.33	425.48	0.08
Valle	25450.79	TR100	1026.00	30.72	44.41	37.91	44.42	0.000126	0.73	1973.52	425.48	0.08
Valle	25450.79	TR200	1185.00	30.72	45.01	38.58	45.02	0.000114	0.72	2229.62	425.48	0.07
Valle	25190.00	TR5	577.00	30.55	42.53	35.54	42.56	0.000202	0.88	1059.05	384.15	0.10
Valle	25190.00	TR10	656.00	30.55	42.87	35.88	42.89	0.000193	0.89	1188.69	388.44	0.09
Valle	25190.00	TR20	747.00	30.55	43.23	36.25	43.25	0.000170	0.85	1419.61	422.41	0.09
Valle	25190.00	TR50	892.00	30.55	43.82	36.79	43.84	0.000151	0.84	1670.05	422.41	0.08
Valle	25190.00	TR100	1026.00	30.55	44.38	37.26	44.40	0.000135	0.82	1903.33	422.41	0.08
Valle	25190.00	TR200	1185.00	30.55	44.98	37.77	45.00	0.000122	0.81	2158.95	422.41	0.08
Valle	25022.74	TR5	577.00	30.56	42.51	35.07	42.53	0.000128	0.69	1026.31	233.30	0.08
Valle	25022.74	TR10	656.00	30.56	42.85	35.44	42.87	0.000135	0.73	1104.46	236.40	0.08
Valle	25022.74	TR20	747.00	30.56	43.21	36.08	43.23	0.000137	0.76	1256.24	268.64	0.08
Valle	25022.74	TR50	892.00	30.56	43.80	36.47	43.82	0.000139	0.80	1414.99	268.64	0.09
Valle	25022.74	TR100	1026.00	30.56	44.35	36.80	44.38	0.000137	0.83	1563.13	268.64	0.09
Valle	25022.74	TR200	1185.00	30.56	44.95	37.12	44.98	0.000136	0.86	1725.43	268.64	0.09
Valle	24820.04	TR5	577.00	30.33	42.45	35.45	42.50	0.000349	1.11	707.09	197.32	0.12
Valle	24820.04	TR10	656.00	30.33	42.78	35.82	42.83	0.000357	1.15	772.93	200.59	0.13
Valle	24820.04	TR20	747.00	30.33	43.15	36.20	43.19	0.000327	1.13	921.41	230.63	0.12
Valle	24820.04	TR50	892.00	30.33	43.74	36.76	43.79	0.000314	1.16	1058.13	230.63	0.12
Valle	24820.04	TR100	1026.00	30.33	44.30	37.25	44.34	0.000297	1.17	1185.85	230.63	0.12
Valle	24820.04	TR200	1185.00	30.33	44.90	37.84	44.95	0.000283	1.19	1325.55	230.63	0.12
Valle	24682.68	TR5	577.00	30.42	42.41	36.70	42.45	0.000350	1.09	716.28	189.71	0.12
Valle	24682.68	TR10	656.00	30.42	42.74	37.16	42.79	0.000361	1.13	779.24	193.97	0.13
Valle	24682.68	TR20	747.00	30.42	43.11	37.65	43.15	0.000362	1.17	882.81	212.62	0.13
Valle	24682.68	TR50	892.00	30.42	43.70	38.28	43.75	0.000348	1.20	1009.13	212.62	0.13
Valle	24682.68	TR100	1026.00	30.42	44.25	38.99	44.30	0.000329	1.21	1127.28	212.62	0.12
Valle	24682.68	TR200	1185.00	30.42	44.86	40.26	44.91	0.000315	1.24	1256.33	212.62	0.12
Valle	24541.75	TR5	577.00	30.36	42.36	36.45	42.40	0.000411	1.08	682.87	184.64	0.13
Valle	24541.75	TR10	656.00	30.36	42.69	36.93	42.73	0.000393	1.09	799.64	211.43	0.13
Valle	24541.75	TR20	747.00	30.36	43.05	37.34	43.10	0.000388	1.12	876.63	211.43	0.13
Valle	24541.75	TR50	892.00	30.36	43.65	38.00	43.70	0.000368	1.15	1002.69	211.43	0.13
Valle	24541.75	TR100	1026.00	30.36	44.21	38.51	44.26	0.000346	1.17	1120.72	211.43	0.13
Valle	24541.75	TR200	1185.00	30.36	44.82	40.20	44.87	0.000329	1.19	1249.47	211.43	0.13
Valle	24400.02	TR5	577.00	30.34	42.25	36.64	42.33	0.000614	1.39	523.69	126.72	0.16
Valle	24400.02	TR10	656.00	30.34	42.59	37.05	42.66	0.000609	1.42	597.47	141.32	0.16
Valle	24400.02	TR20	747.00	30.34	42.95	37.50	43.03	0.000623	1.48	648.49	141.96	0.17
Valle	24400.02	TR50	892.00	30.34	43.56	38.54	43.64	0.000537	1.45	815.26	163.72	0.16
Valle	24400.02	TR100	1026.00	30.34	44.12	39.05	44.20	0.000515	1.48	906.96	163.72	0.15
Valle	24400.02	TR200	1185.00	30.34	44.73	40.00	44.81	0.000500	1.52	1006.73	163.72	0.15
Valle	24249.84	TR5	577.00	30.31	42.12	35.98	42.22	0.000838	1.56	453.79	116.22	0.18
Valle	24249.84	TR10	656.00	30.31	42.46	36.36	42.56	0.000798	1.57	532.01	134.62	0.18
Valle	24249.84	TR20	747.00	30.31	42.82	36.77	42.93	0.000819	1.64	580.23	136.28	0.18
Valle	24249.84	TR50	892.00	30.31	43.44	37.39	43.54	0.000749	1.65	704.69	148.87	0.18
Valle	24249.84	TR100	1026.00	30.31	44.01	37.95	44.11	0.000713	1.68	788.77	148.87	0.18
Valle	24249.84	TR200	1185.00	30.31	44.62	38.81	44.73	0.000687	1.72	879.93	148.87	0.17
Valle	24074.80	TR5	577.00	30.18	42.08	34.88	42.13	0.000356	1.13	613.23	136.86	0.13
Valle	24074.80	TR10	656.00	30.18	42.41	35.22	42.47	0.000382	1.20	658.85	141.26	0.13
Valle	24074.80	TR20	747.00	30.18	42.78	35.60	42.84	0.000359	1.20	797.03	171.57	0.13
Valle	24074.80	TR50	892.00	30.18	43.39	36.26	43.46	0.000361	1.26	902.58	171.57	0.13
Valle	24074.80	TR100	1026.00	30.18	43.96	36.94	44.03	0.000356	1.30	999.78	171.57	0.13
Valle	24074.80	TR200	1185.00	30.18	44.57	37.37	44.65	0.000354	1.35	1105.15	171.57	0.13
Valle	23968.56	TR5	577.00	30.24	42.00	35.66	42.09	0.000562	1.47	500.52	113.50	0.16
Valle	23968.56	TR10	656.00	30.24	42.33	36.03	42.42	0.000604	1.56	537.64	115.71	0.16
Valle	23968.56	TR20	747.00	30.24	42.71	36.43	42.79	0.000554	1.54	664.39	143.51	0.16
Valle	23968.56	TR50	892.00	30.24	43.32	37.03	43.41	0.000557	1.61	752.54	143.51	0.16
Valle	23968.56	TR100	1026.00	30.24	43.89	37.55	43.98	0.000548	1.65	833.89	143.51	0.16
Valle	23968.56	TR200	1185.00	30.24	44.50	38.97	44.60	0.000545	1.71	921.92	143.51	0.16
Valle	23773.85	TR5	577.00	30.39	41.93	36.21	41.99	0.000478	1.22	624.61	173.03	0.15
Valle	23773.85	TR10	656.00	30.39	42.26	36.61	42.32	0.000485	1.26	691.50	185.55	0.15
Valle	23773.85	TR20	747.00	30.39	42.64	37.04	42.70	0.000458	1.27	797.55	198.95	0.14
Valle	23773.85	TR50	892.00	30.39	43.26	37.66	43.32	0.000428	1.29	921.31	198.95	0.14
Valle	23773.85	TR100	1026.00	30.39	43.83	38.23	43.89	0.000398	1.30	1035.55	198.95	0.14
Valle	23773.85	TR200	1185.00	30.39	44.45	39.49	44.52	0.000377	1.32	1158.89	198.95	0.14
Valle	23624.85	TR5	577.00	30.22	41.90	35.15	41.94	0.000268	0.96	846.45	248.52	0.11
Valle	23624.85	TR10	656.00	30.22	42.24	35.58	42.27	0.000251	0.95	1001.47	283.29	0.11
Valle	23624.85	TR20	747.00	30.22	42.62	35.98	42.65	0.000243	0.97	1108.81	283.29	0.11

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	23624.85	TR50	892.00	30.22	43.24	36.56	43.27	0.000224	0.97	1286.39	283.29	0.10
Valle	23624.85	TR100	1026.00	30.22	43.82	37.07	43.85	0.000206	0.97	1450.24	283.29	0.10
Valle	23624.85	TR200	1185.00	30.22	44.45	37.57	44.48	0.000193	0.98	1626.96	283.29	0.10
Valle	23505.59	TR5	577.00	30.20	41.88	34.84	41.91	0.000225	0.92	834.02	208.35	0.10
Valle	23505.59	TR10	656.00	30.20	42.21	35.16	42.24	0.000228	0.95	929.76	227.69	0.11
Valle	23505.59	TR20	747.00	30.20	42.59	35.52	42.62	0.000230	0.98	1040.62	239.69	0.11
Valle	23505.59	TR50	892.00	30.20	43.22	36.05	43.25	0.000222	1.01	1190.92	239.69	0.11
Valle	23505.59	TR100	1026.00	30.20	43.79	36.50	43.83	0.000212	1.03	1329.69	239.69	0.10
Valle	23505.59	TR200	1185.00	30.20	44.42	37.03	44.46	0.000205	1.06	1479.25	239.69	0.10
Valle	23350.24	TR5	577.00	30.33	41.78	35.77	41.86	0.000666	1.41	502.67	125.73	0.17
Valle	23350.24	TR10	656.00	30.33	42.11	36.17	42.19	0.000664	1.45	575.04	142.02	0.17
Valle	23350.24	TR20	747.00	30.33	42.49	36.63	42.58	0.000627	1.46	670.20	159.79	0.17
Valle	23350.24	TR50	892.00	30.33	43.12	37.33	43.21	0.000597	1.50	770.56	159.79	0.17
Valle	23350.24	TR100	1026.00	30.33	43.70	38.08	43.79	0.000564	1.52	863.35	159.79	0.16
Valle	23350.24	TR200	1185.00	30.33	44.33	39.81	44.42	0.000541	1.56	963.01	159.79	0.16
Valle	23107.37	TR5	577.00	30.20	41.65	35.46	41.73	0.000520	1.38	503.91	106.24	0.15
Valle	23107.37	TR10	656.00	30.20	42.00	35.83	42.07	0.000463	1.34	621.04	129.92	0.15
Valle	23107.37	TR20	747.00	30.20	42.37	36.32	42.45	0.000485	1.41	669.89	130.42	0.15
Valle	23107.37	TR50	892.00	30.20	43.01	36.86	43.09	0.000472	1.46	791.20	144.43	0.15
Valle	23107.37	TR100	1026.00	30.20	43.59	37.31	43.68	0.000465	1.51	875.39	144.43	0.15
Valle	23107.37	TR200	1185.00	30.20	44.21	37.88	44.31	0.000464	1.57	965.55	144.43	0.15
Valle	22999.65	TR5	577.00	30.35	41.57	36.12	41.66	0.000650	1.45	477.37	114.62	0.17
Valle	22999.65	TR10	656.00	30.35	41.93	36.50	42.01	0.000598	1.44	589.60	145.63	0.17
Valle	22999.65	TR20	747.00	30.35	42.30	36.90	42.39	0.000607	1.50	644.22	145.63	0.17
Valle	22999.65	TR50	892.00	30.35	42.94	37.41	43.03	0.000592	1.56	736.37	145.63	0.17
Valle	22999.65	TR100	1026.00	30.35	43.52	37.85	43.62	0.000569	1.60	821.63	145.63	0.17
Valle	22999.65	TR200	1185.00	30.35	44.15	38.39	44.25	0.000555	1.65	912.76	145.63	0.17
Valle	22697.86	TR5	577.00	30.07	41.57	34.61	41.59	0.000170	0.74	1133.22	359.07	0.09
Valle	22697.86	TR10	656.00	30.07	41.93	34.97	41.95	0.000155	0.73	1303.65	375.81	0.09
Valle	22697.86	TR20	747.00	30.07	42.32	35.40	42.33	0.000148	0.74	1447.66	375.81	0.08
Valle	22697.86	TR50	892.00	30.07	42.96	35.95	42.98	0.000132	0.74	1689.81	375.81	0.08
Valle	22697.86	TR100	1026.00	30.07	43.55	36.47	43.57	0.000119	0.73	1913.13	375.81	0.08
Valle	22697.86	TR200	1185.00	30.07	44.19	37.00	44.21	0.000109	0.73	2151.61	375.81	0.07
Valle	22161.23	TR5	577.00	29.29	41.52	34.69	41.54	0.000160	0.67	1330.88	491.95	0.08
Valle	22161.23	TR10	656.00	29.29	41.89	35.04	41.90	0.000138	0.64	1541.32	504.77	0.08
Valle	22161.23	TR20	747.00	29.29	42.28	35.43	42.29	0.000124	0.63	1737.63	504.77	0.07
Valle	22161.23	TR50	892.00	29.29	42.93	36.02	42.94	0.000103	0.61	2066.99	504.77	0.07
Valle	22161.23	TR100	1026.00	29.29	43.53	36.55	43.54	0.000089	0.59	2369.74	504.77	0.06
Valle	22161.23	TR200	1185.00	29.29	44.17	37.23	44.18	0.000079	0.58	2692.05	504.77	0.06
Valle	21810.02	TR5	577.00	29.09	41.49	33.55	41.50	0.000119	0.68	1208.23	307.43	0.08
Valle	21810.02	TR10	656.00	29.09	41.86	33.90	41.87	0.000115	0.69	1365.29	325.26	0.07
Valle	21810.02	TR20	747.00	29.09	42.25	34.28	42.26	0.000115	0.71	1492.18	325.26	0.07
Valle	21810.02	TR50	892.00	29.09	42.90	34.82	42.92	0.000109	0.72	1705.25	325.26	0.07
Valle	21810.02	TR100	1026.00	29.09	43.51	35.28	43.52	0.000103	0.73	1900.97	325.26	0.07
Valle	21810.02	TR200	1185.00	29.09	44.14	35.84	44.16	0.000099	0.75	2109.00	325.26	0.07
Valle	21545.47	TR5	577.00	29.08	41.47	34.80	41.48	0.000118	0.66	1247.49	338.97	0.07
Valle	21545.47	TR10	656.00	29.08	41.84	35.10	41.85	0.000115	0.67	1372.98	338.97	0.07
Valle	21545.47	TR20	747.00	29.08	42.23	35.47	42.24	0.000113	0.69	1505.44	338.97	0.07
Valle	21545.47	TR50	892.00	29.08	42.88	35.99	42.90	0.000106	0.70	1728.10	338.97	0.07
Valle	21545.47	TR100	1026.00	29.08	43.49	36.41	43.50	0.000099	0.70	1932.62	338.97	0.07
Valle	21545.47	TR200	1185.00	29.08	44.13	36.95	44.14	0.000094	0.72	2149.79	338.97	0.07
Valle	21317.90	TR5	577.00	28.68	41.41	34.72	41.45	0.000265	1.08	764.64	186.53	0.11
Valle	21317.90	TR10	656.00	28.68	41.78	35.21	41.82	0.000268	1.11	833.56	186.53	0.11
Valle	21317.90	TR20	747.00	28.68	42.17	35.68	42.22	0.000273	1.15	906.20	186.53	0.11
Valle	21317.90	TR50	892.00	28.68	42.83	36.29	42.88	0.000268	1.19	1028.70	186.53	0.11
Valle	21317.90	TR100	1026.00	28.68	43.43	36.84	43.48	0.000260	1.21	1141.28	186.53	0.11
Valle	21317.90	TR200	1185.00	28.68	44.07	37.42	44.12	0.000256	1.25	1260.56	186.53	0.11
Valle	21224.30	TR5	577.00	28.61	41.36	34.70	41.42	0.000405	1.27	599.52	143.74	0.14
Valle	21224.30	TR10	656.00	28.61	41.73	35.08	41.79	0.000416	1.32	652.24	143.74	0.14
Valle	21224.30	TR20	747.00	28.61	42.11	35.49	42.18	0.000429	1.38	707.76	143.74	0.14
Valle	21224.30	TR50	892.00	28.61	42.77	36.09	42.84	0.000428	1.44	801.85	143.74	0.14
Valle	21224.30	TR100	1026.00	28.61	43.37	36.60	43.45	0.000419	1.48	888.46	143.74	0.14
Valle	21224.30	TR200	1185.00	28.61	44.01	37.30	44.09	0.000418	1.54	980.06	143.74	0.15
Valle	21081.71	TR5	577.00	28.44	41.31	34.24	41.37	0.000380	1.13	594.35	132.63	0.13
Valle	21081.71	TR10	656.00	28.44	41.68	34.63	41.74	0.000398	1.20	645.27	139.80	0.14
Valle	21081.71	TR20	747.00	28.44	42.06	35.06	42.13	0.000414	1.26	698.92	139.80	0.14
Valle	21081.71	TR50	892.00	28.44	42.71	35.69	42.79	0.000417	1.33	790.28	139.80	0.15
Valle	21081.71	TR100	1026.00	28.44	43.32	36.20	43.40	0.000411	1.38	874.56	139.80	0.15
Valle	21081.71	TR200	1185.00	28.44	43.95	36.95	44.04	0.000412	1.45	963.56	139.80	0.15
Valle	20980.62	TR5	577.00	28.53	41.27	33.65	41.33	0.000430	1.24	561.83	117.98	0.14
Valle	20980.62	TR10	656.00	28.53	41.63	34.09	41.70	0.000453	1.31	604.43	117.98	0.14



## HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	20980.62	TR20	747.00	28.53	42.01	34.50	42.09	0.000479	1.39	649.27	117.98	0.15
Valle	20980.62	TR50	892.00	28.53	42.66	35.12	42.75	0.000494	1.48	726.01	117.98	0.15
Valle	20980.62	TR100	1026.00	28.53	43.26	35.65	43.36	0.000497	1.54	796.92	117.98	0.15
Valle	20980.62	TR200	1185.00	28.53	43.89	36.30	44.00	0.000507	1.62	871.67	117.98	0.16
Valle	20847.13	TR5	577.00	28.51	41.20	33.64	41.27	0.000433	1.30	524.56	104.04	0.14
Valle	20847.13	TR10	656.00	28.51	41.55	34.02	41.64	0.000466	1.39	561.48	104.04	0.15
Valle	20847.13	TR20	747.00	28.51	41.93	34.43	42.02	0.000503	1.48	600.29	104.04	0.16
Valle	20847.13	TR50	892.00	28.51	42.57	35.04	42.68	0.000533	1.60	667.25	104.04	0.16
Valle	20847.13	TR100	1026.00	28.51	43.17	35.56	43.29	0.000546	1.68	729.36	104.04	0.17
Valle	20847.13	TR200	1185.00	28.51	43.79	36.16	43.93	0.000567	1.78	794.69	104.04	0.17
Valle	20656.02	TR5	577.00	28.49	41.11	34.54	41.18	0.000587	1.33	559.05	155.00	0.16
Valle	20656.02	TR10	656.00	28.49	41.46	34.98	41.54	0.000588	1.38	614.39	155.00	0.16
Valle	20656.02	TR20	747.00	28.49	41.84	35.53	41.92	0.000592	1.42	672.55	155.00	0.16
Valle	20656.02	TR50	892.00	28.49	42.49	36.17	42.57	0.000564	1.46	773.83	155.00	0.16
Valle	20656.02	TR100	1026.00	28.49	43.10	36.80	43.18	0.000531	1.48	867.97	155.00	0.15
Valle	20656.02	TR200	1185.00	28.49	43.74	37.36	43.82	0.000512	1.52	966.71	155.00	0.15
Valle	20476.21	TR5	577.00	28.47	41.00	34.44	41.08	0.000552	1.44	500.22	112.77	0.16
Valle	20476.21	TR10	656.00	28.47	41.34	34.87	41.44	0.000609	1.55	548.79	122.43	0.17
Valle	20476.21	TR20	747.00	28.47	41.71	35.29	41.82	0.000637	1.63	594.07	122.43	0.17
Valle	20476.21	TR50	892.00	28.47	42.37	35.97	42.48	0.000638	1.71	673.99	122.43	0.17
Valle	20476.21	TR100	1026.00	28.47	42.97	37.06	43.09	0.000625	1.76	748.58	122.43	0.17
Valle	20476.21	TR200	1185.00	28.47	43.61	37.64	43.74	0.000624	1.83	826.43	122.43	0.18
Valle	20273.56	TR5	577.00	28.22	40.93	34.71	41.00	0.000402	1.25	586.80	136.96	0.14
Valle	20273.56	TR10	656.00	28.22	41.28	35.07	41.35	0.000439	1.34	637.23	144.21	0.14
Valle	20273.56	TR20	747.00	28.22	41.65	35.45	41.72	0.000457	1.41	690.56	144.21	0.15
Valle	20273.56	TR50	892.00	28.22	42.30	35.99	42.39	0.000454	1.47	785.47	144.21	0.15
Valle	20273.56	TR100	1026.00	28.22	42.92	36.51	43.00	0.000441	1.51	874.20	144.21	0.15
Valle	20273.56	TR200	1185.00	28.22	43.56	37.11	43.65	0.000438	1.57	966.57	144.21	0.15
Valle	20056.70	TR5	577.00	28.06	40.84	34.66	40.91	0.000439	1.26	565.42	126.79	0.14
Valle	20056.70	TR10	656.00	28.06	41.18	34.97	41.25	0.000462	1.33	609.22	131.85	0.14
Valle	20056.70	TR20	747.00	28.06	41.54	35.32	41.62	0.000485	1.40	657.27	131.85	0.15
Valle	20056.70	TR50	892.00	28.06	42.19	35.84	42.28	0.000514	1.51	742.95	131.85	0.16
Valle	20056.70	TR100	1026.00	28.06	42.81	36.33	42.90	0.000501	1.55	824.28	131.85	0.16
Valle	20056.70	TR200	1185.00	28.06	43.45	36.83	43.55	0.000500	1.61	908.60	131.85	0.16
Valle	19942.82	TR5	577.00	28.02	40.72	33.73	40.84	0.000709	1.70	414.78	80.76	0.17
Valle	19942.82	TR10	656.00	28.02	41.03	34.12	41.18	0.000824	1.87	442.20	88.30	0.18
Valle	19942.82	TR20	747.00	28.02	41.38	34.55	41.55	0.000902	2.00	472.96	88.30	0.19
Valle	19942.82	TR50	892.00	28.02	42.02	35.18	42.20	0.000958	2.14	529.06	88.30	0.20
Valle	19942.82	TR100	1026.00	28.02	42.63	35.72	42.83	0.000973	2.24	582.87	88.30	0.20
Valle	19942.82	TR200	1185.00	28.02	43.25	36.31	43.47	0.001007	2.35	638.30	88.30	0.21
Valle	19932	Bridge										
Valle	19919.06	TR5	577.00	27.84	40.65	34.05	40.80	0.000989	1.81	370.11	78.03	0.20
Valle	19919.06	TR10	656.00	27.84	40.95	34.48	41.12	0.001099	1.95	393.13	80.27	0.21
Valle	19919.06	TR20	747.00	27.84	41.27	34.99	41.47	0.001241	2.12	424.86	89.53	0.23
Valle	19919.06	TR50	892.00	27.84	41.88	35.77	42.10	0.001293	2.26	479.34	89.53	0.23
Valle	19919.06	TR100	1026.00	27.84	42.43	36.41	42.67	0.001312	2.37	528.69	89.53	0.24
Valle	19919.06	TR200	1185.00	27.84	43.07	37.12	43.32	0.001314	2.47	585.93	89.53	0.24
Valle	19831.94	TR5	577.00	28.04	40.64	33.69	40.73	0.000676	1.50	473.93	106.51	0.16
Valle	19831.94	TR10	656.00	28.04	40.93	34.12	41.04	0.000746	1.62	514.82	115.79	0.17
Valle	19831.94	TR20	747.00	28.04	41.27	34.69	41.38	0.000806	1.72	564.81	125.28	0.18
Valle	19831.94	TR50	892.00	28.04	41.89	35.35	42.01	0.000806	1.80	642.65	125.28	0.18
Valle	19831.94	TR100	1026.00	28.04	42.45	35.90	42.58	0.000793	1.85	713.07	125.28	0.18
Valle	19831.94	TR200	1185.00	28.04	43.10	36.52	43.24	0.000773	1.90	794.65	125.28	0.18
Valle	19753.42	TR5	577.00	27.83	40.60	33.47	40.67	0.001062	1.27	533.44	100.23	0.14
Valle	19753.42	TR10	656.00	27.83	40.89	33.89	40.97	0.001200	1.38	562.92	104.46	0.15
Valle	19753.42	TR20	747.00	27.83	41.22	34.39	41.31	0.001250	1.44	654.50	128.09	0.15
Valle	19753.42	TR50	892.00	27.83	41.84	35.11	41.93	0.001299	1.54	733.66	128.09	0.16
Valle	19753.42	TR100	1026.00	27.83	42.40	35.60	42.50	0.001319	1.61	805.47	128.09	0.16
Valle	19753.42	TR200	1185.00	27.83	43.05	36.21	43.16	0.001323	1.68	888.78	128.09	0.16
Valle	19594.38	TR5	577.00	27.90	40.45	34.09	40.51	0.000983	1.20	592.81	121.93	0.13
Valle	19594.38	TR10	656.00	27.90	40.74	34.60	40.80	0.000970	1.22	693.94	145.94	0.13
Valle	19594.38	TR20	747.00	27.90	41.08	35.02	41.13	0.000979	1.25	790.33	160.24	0.13
Valle	19594.38	TR50	892.00	27.90	41.70	35.67	41.76	0.000985	1.32	889.56	160.24	0.14
Valle	19594.38	TR100	1026.00	27.90	42.26	36.89	42.33	0.000974	1.36	979.97	160.24	0.14
Valle	19594.38	TR200	1185.00	27.90	42.92	37.41	42.99	0.000954	1.40	1085.10	160.24	0.14
Valle	19330.03	TR5	577.00	27.56	40.38	32.72	40.39	0.000341	0.75	1087.21	267.21	0.08
Valle	19330.03	TR10	656.00	27.56	40.66	33.08	40.68	0.000357	0.78	1191.35	284.96	0.08
Valle	19330.03	TR20	747.00	27.56	41.00	33.47	41.02	0.000370	0.81	1315.74	297.88	0.09
Valle	19330.03	TR50	892.00	27.56	41.63	34.04	41.65	0.000355	0.83	1502.85	297.88	0.08
Valle	19330.03	TR100	1026.00	27.56	42.20	34.55	42.22	0.000340	0.85	1673.39	297.88	0.08
Valle	19330.03	TR200	1185.00	27.56	42.86	35.18	42.89	0.000321	0.86	1871.57	297.88	0.08

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	19074.17	TR5	577.00	27.44	40.23	33.04	40.29	0.000815	1.16	596.52	115.94	0.13
Valle	19074.17	TR10	656.00	27.44	40.50	33.41	40.57	0.000916	1.26	628.24	116.30	0.13
Valle	19074.17	TR20	747.00	27.44	40.84	33.84	40.91	0.000891	1.27	745.99	141.29	0.13
Valle	19074.17	TR50	892.00	27.44	41.46	34.41	41.54	0.000930	1.36	834.19	141.29	0.14
Valle	19074.17	TR100	1026.00	27.44	42.03	34.83	42.12	0.000946	1.42	914.91	141.29	0.14
Valle	19074.17	TR200	1185.00	27.44	42.70	35.33	42.79	0.000950	1.48	1008.85	141.29	0.14
Valle	18855.21	TR5	577.00	27.41	40.04	33.47	40.10	0.001021	1.21	636.75	174.73	0.14
Valle	18855.21	TR10	656.00	27.41	40.30	33.96	40.36	0.001122	1.29	688.71	186.99	0.14
Valle	18855.21	TR20	747.00	27.41	40.64	34.42	40.71	0.001108	1.32	783.46	198.48	0.14
Valle	18855.21	TR50	892.00	27.41	41.28	35.01	41.34	0.001046	1.34	909.58	198.48	0.14
Valle	18855.21	TR100	1026.00	27.41	41.86	35.47	41.93	0.000980	1.35	1025.43	198.48	0.14
Valle	18855.21	TR200	1185.00	27.41	42.54	36.01	42.60	0.000908	1.36	1160.28	198.48	0.13
Valle	18747.57	TR5	577.00	27.49	39.90	33.49	39.98	0.001367	1.36	550.02	139.94	0.15
Valle	18747.57	TR10	656.00	27.49	40.18	33.92	40.24	0.001224	1.32	673.20	166.83	0.14
Valle	18747.57	TR20	747.00	27.49	40.54	34.40	40.59	0.000999	1.22	841.77	193.10	0.13
Valle	18747.57	TR50	892.00	27.49	41.18	35.11	41.24	0.000951	1.25	965.34	193.10	0.13
Valle	18747.57	TR100	1026.00	27.49	41.77	35.63	41.83	0.000899	1.27	1079.00	193.10	0.13
Valle	18747.57	TR200	1185.00	27.49	42.46	36.55	42.51	0.000842	1.28	1211.26	193.10	0.12
Valle	18475.44	TR5	577.00	27.55	39.78	32.81	39.80	0.000451	0.79	1000.37	264.02	0.09
Valle	18475.44	TR10	656.00	27.55	40.04	33.22	40.07	0.000488	0.84	1071.01	271.66	0.10
Valle	18475.44	TR20	747.00	27.55	40.44	33.65	40.46	0.000388	0.77	1334.53	308.46	0.09
Valle	18475.44	TR50	892.00	27.55	41.09	34.35	41.11	0.000361	0.79	1535.44	308.46	0.08
Valle	18475.44	TR100	1026.00	27.55	41.69	34.85	41.71	0.000336	0.79	1720.10	308.46	0.08
Valle	18475.44	TR200	1185.00	27.55	42.39	35.34	42.41	0.000310	0.80	1934.57	308.46	0.08
Valle	18284.36	TR5	577.00	27.20	39.69	30.81	39.73	0.000483	0.94	719.68	123.57	0.10
Valle	18284.36	TR10	656.00	27.20	39.94	31.10	39.98	0.000550	1.02	779.25	141.19	0.10
Valle	18284.36	TR20	747.00	27.20	40.33	31.48	40.38	0.000595	1.09	834.99	142.33	0.11
Valle	18284.36	TR50	892.00	27.20	41.00	31.95	41.04	0.000512	1.05	1089.00	178.60	0.10
Valle	18284.36	TR100	1026.00	27.20	41.60	32.36	41.65	0.000520	1.10	1195.99	178.60	0.10
Valle	18284.36	TR200	1185.00	27.20	42.30	32.81	42.35	0.000521	1.14	1320.33	178.60	0.10
Valle	18123.04	TR5	577.00	27.32	39.53	32.90	39.61	0.001262	1.40	532.53	117.87	0.15
Valle	18123.04	TR10	656.00	27.32	39.77	33.31	39.85	0.001349	1.47	597.33	133.46	0.15
Valle	18123.04	TR20	747.00	27.32	40.20	33.78	40.26	0.001061	1.34	781.62	171.90	0.14
Valle	18123.04	TR50	892.00	27.32	40.87	34.45	40.94	0.001014	1.37	897.39	171.90	0.14
Valle	18123.04	TR100	1026.00	27.32	41.47	35.12	41.54	0.000971	1.39	1000.86	171.90	0.13
Valle	18123.04	TR200	1185.00	27.32	42.17	35.86	42.24	0.000920	1.41	1121.22	171.90	0.13
Valle	17808.36	TR5	577.00	26.94	39.42	32.49	39.44	0.000366	0.69	1113.44	279.73	0.08
Valle	17808.36	TR10	656.00	26.94	39.65	32.90	39.67	0.000399	0.74	1212.72	301.22	0.09
Valle	17808.36	TR20	747.00	26.94	40.08	33.34	40.10	0.000380	0.75	1342.66	301.22	0.08
Valle	17808.36	TR50	892.00	26.94	40.77	33.99	40.79	0.000347	0.76	1549.71	301.22	0.08
Valle	17808.36	TR100	1026.00	26.94	41.38	34.56	41.40	0.000323	0.76	1734.30	301.22	0.08
Valle	17808.36	TR200	1185.00	26.94	42.10	35.17	42.12	0.000298	0.77	1948.62	301.22	0.08
Valle	17622.30	TR5	577.00	26.86	39.37	32.58	39.39	0.000381	0.74	1032.53	235.96	0.08
Valle	17622.30	TR10	656.00	26.86	39.60	32.98	39.62	0.000371	0.75	1191.37	267.00	0.08
Valle	17622.30	TR20	747.00	26.86	40.03	33.69	40.05	0.000362	0.76	1307.15	267.00	0.08
Valle	17622.30	TR50	892.00	26.86	40.73	34.24	40.75	0.000343	0.78	1491.69	267.00	0.08
Valle	17622.30	TR100	1026.00	26.86	41.34	34.67	41.36	0.000328	0.80	1656.06	267.00	0.08
Valle	17622.30	TR200	1185.00	26.86	42.06	35.20	42.08	0.000310	0.81	1846.79	267.00	0.08
Valle	17400.17	TR5	577.00	26.49	39.23	32.02	39.27	0.000750	1.09	690.02	147.10	0.12
Valle	17400.17	TR10	656.00	26.49	39.46	32.40	39.51	0.000724	1.09	815.01	174.00	0.12
Valle	17400.17	TR20	747.00	26.49	39.90	32.90	39.94	0.000725	1.12	890.45	174.00	0.12
Valle	17400.17	TR50	892.00	26.49	40.59	33.54	40.64	0.000709	1.16	1011.17	174.00	0.12
Valle	17400.17	TR100	1026.00	26.49	41.21	34.07	41.26	0.000692	1.20	1118.71	174.00	0.12
Valle	17400.17	TR200	1185.00	26.49	41.93	34.88	41.98	0.000668	1.23	1243.55	174.00	0.12
Valle	17140.63	TR5	577.00	26.41	39.11	31.68	39.14	0.000484	0.91	855.61	188.70	0.10
Valle	17140.63	TR10	656.00	26.41	39.35	32.03	39.38	0.000490	0.94	975.95	211.63	0.10
Valle	17140.63	TR20	747.00	26.41	39.78	32.42	39.81	0.000489	0.96	1068.24	211.63	0.10
Valle	17140.63	TR50	892.00	26.41	40.48	33.04	40.52	0.000475	1.00	1216.47	211.63	0.10
Valle	17140.63	TR100	1026.00	26.41	41.11	33.54	41.14	0.000460	1.02	1348.52	211.63	0.10
Valle	17140.63	TR200	1185.00	26.41	41.83	34.17	41.87	0.000442	1.04	1501.79	211.63	0.10
Valle	16863.50	TR5	577.00	26.18	39.02	31.83	39.04	0.000418	0.73	1034.74	260.36	0.09
Valle	16863.50	TR10	656.00	26.18	39.27	32.21	39.29	0.000356	0.69	1288.32	316.00	0.08
Valle	16863.50	TR20	747.00	26.18	39.71	32.63	39.73	0.000337	0.70	1427.73	316.00	0.08
Valle	16863.50	TR50	892.00	26.18	40.42	33.29	40.44	0.000305	0.71	1651.73	316.00	0.08
Valle	16863.50	TR100	1026.00	26.18	41.05	33.90	41.07	0.000282	0.71	1850.91	316.00	0.07
Valle	16863.50	TR200	1185.00	26.18	41.78	34.97	41.80	0.000259	0.72	2081.85	316.00	0.07
Valle	16636.60	TR5	577.00	26.32	38.84	30.97	38.92	0.000993	1.33	512.14	89.38	0.14
Valle	16636.60	TR10	656.00	26.32	39.15	31.32	39.20	0.000690	1.13	777.73	151.82	0.11
Valle	16636.60	TR20	747.00	26.32	39.59	31.70	39.65	0.000708	1.18	844.72	151.82	0.12
Valle	16636.60	TR50	892.00	26.32	40.31	32.28	40.36	0.000714	1.24	952.69	151.82	0.12
Valle	16636.60	TR100	1026.00	26.32	40.94	32.82	41.00	0.000712	1.28	1048.65	151.82	0.12

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	16636.60	TR200	1185.00	26.32	41.67	33.44	41.73	0.000704	1.32	1159.88	151.82	0.12
Valle	16525.94	TR5	577.00	26.06	38.79	31.90	38.83	0.000671	1.02	719.52	148.44	0.11
Valle	16525.94	TR10	656.00	26.06	39.10	32.33	39.13	0.000610	0.99	898.24	190.23	0.11
Valle	16525.94	TR20	747.00	26.06	39.54	32.81	39.57	0.000606	1.02	982.34	190.23	0.11
Valle	16525.94	TR50	892.00	26.06	40.25	33.87	40.29	0.000584	1.05	1118.23	190.23	0.11
Valle	16525.94	TR100	1026.00	26.06	40.89	34.37	40.93	0.000565	1.08	1239.02	190.23	0.11
Valle	16525.94	TR200	1185.00	26.06	41.62	34.96	41.67	0.000541	1.11	1379.08	190.23	0.10
Valle	16263.78	TR5	577.00	26.08	38.54	31.94	38.61	0.001220	1.30	534.03	109.28	0.15
Valle	16263.78	TR10	656.00	26.08	38.91	32.33	38.95	0.000850	1.12	777.58	169.92	0.12
Valle	16263.78	TR20	747.00	26.08	39.35	32.77	39.40	0.000838	1.15	853.04	169.92	0.12
Valle	16263.78	TR50	892.00	26.08	40.08	33.44	40.13	0.000798	1.18	975.74	169.92	0.12
Valle	16263.78	TR100	1026.00	26.08	40.72	34.18	40.77	0.000764	1.21	1084.74	169.92	0.12
Valle	16263.78	TR200	1185.00	26.08	41.46	35.76	41.52	0.000725	1.23	1211.10	169.92	0.12
Valle	15896.49	TR5	577.00	25.58	38.47	31.27	38.48	0.000244	0.60	1473.59	454.47	0.07
Valle	15896.49	TR10	656.00	25.58	38.84	31.63	38.85	0.000224	0.59	1696.26	479.64	0.07
Valle	15896.49	TR20	747.00	25.58	39.29	32.01	39.30	0.000202	0.58	1915.07	479.64	0.06
Valle	15896.49	TR50	892.00	25.58	40.03	32.59	40.04	0.000171	0.57	2269.47	479.64	0.06
Valle	15896.49	TR100	1026.00	25.58	40.69	33.28	40.70	0.000151	0.56	2582.72	479.64	0.06
Valle	15896.49	TR200	1185.00	25.58	41.44	33.73	41.45	0.000133	0.55	2944.65	479.64	0.05
Valle	15451.12	TR5	577.00	25.62	38.35	31.30	38.37	0.000427	0.76	1036.47	260.43	0.09
Valle	15451.12	TR10	656.00	25.62	38.74	31.77	38.76	0.000363	0.73	1242.00	286.15	0.08
Valle	15451.12	TR20	747.00	25.62	39.20	32.29	39.22	0.000345	0.73	1374.76	286.15	0.08
Valle	15451.12	TR50	892.00	25.62	39.95	32.92	39.97	0.000313	0.74	1589.40	286.15	0.08
Valle	15451.12	TR100	1026.00	25.62	40.61	33.53	40.63	0.000291	0.74	1778.33	286.15	0.07
Valle	15451.12	TR200	1185.00	25.62	41.37	35.13	41.39	0.000269	0.75	1996.09	286.15	0.07
Valle	15201.75	TR5	577.00	26.11	38.29	31.50	38.30	0.000281	0.64	1231.65	302.27	0.07
Valle	15201.75	TR10	656.00	26.11	38.68	31.78	38.70	0.000277	0.65	1349.53	302.27	0.07
Valle	15201.75	TR20	747.00	26.11	39.15	32.08	39.16	0.000266	0.66	1490.82	302.27	0.07
Valle	15201.75	TR50	892.00	26.11	39.90	32.60	39.92	0.000244	0.67	1719.31	302.27	0.07
Valle	15201.75	TR100	1026.00	26.11	40.57	32.96	40.58	0.000229	0.68	1920.09	302.27	0.07
Valle	15201.75	TR200	1185.00	26.11	41.33	33.37	41.35	0.000214	0.69	2151.29	302.27	0.07
Valle	14827.92	TR5	577.00	25.50	38.21	31.08	38.22	0.000259	0.57	1446.82	432.36	0.07
Valle	14827.92	TR10	656.00	25.50	38.61	31.50	38.62	0.000240	0.57	1617.85	432.36	0.07
Valle	14827.92	TR20	747.00	25.50	39.08	32.03	39.09	0.000217	0.56	1823.06	432.36	0.06
Valle	14827.92	TR50	892.00	25.50	39.85	32.58	39.86	0.000185	0.55	2154.38	432.36	0.06
Valle	14827.92	TR100	1026.00	25.50	40.52	33.01	40.53	0.000164	0.55	2444.52	432.36	0.06
Valle	14827.92	TR200	1185.00	25.50	41.29	33.79	41.30	0.000146	0.55	2777.96	432.36	0.06
Valle	14578.89	TR5	577.00	25.35	38.15	30.06	38.16	0.000349	0.69	1132.43	282.09	0.08
Valle	14578.89	TR10	656.00	25.35	38.55	30.44	38.57	0.000284	0.64	1383.65	314.53	0.07
Valle	14578.89	TR20	747.00	25.35	39.03	30.84	39.05	0.000268	0.65	1534.25	314.53	0.07
Valle	14578.89	TR50	892.00	25.35	39.80	31.41	39.82	0.000242	0.65	1777.12	314.53	0.07
Valle	14578.89	TR100	1026.00	25.35	40.48	31.90	40.49	0.000225	0.66	1989.33	314.53	0.07
Valle	14578.89	TR200	1185.00	25.35	41.25	32.49	41.27	0.000208	0.67	2232.90	314.53	0.06
Valle	14336.84	TR5	577.00	25.30	38.09	28.93	38.10	0.000205	0.61	1283.63	273.76	0.06
Valle	14336.84	TR10	656.00	25.30	38.50	29.23	38.51	0.000209	0.64	1395.28	273.76	0.07
Valle	14336.84	TR20	747.00	25.30	38.98	29.52	38.99	0.000209	0.66	1526.70	273.76	0.07
Valle	14336.84	TR50	892.00	25.30	39.75	29.97	39.77	0.000202	0.68	1738.93	273.76	0.07
Valle	14336.84	TR100	1026.00	25.30	40.43	30.36	40.45	0.000197	0.70	1924.24	273.76	0.07
Valle	14336.84	TR200	1185.00	25.30	41.21	30.83	41.22	0.000191	0.72	2136.86	273.76	0.06
Valle	14088.45	TR5	577.00	25.33	37.97	31.56	38.02	0.000845	1.12	650.37	140.93	0.12
Valle	14088.45	TR10	656.00	25.33	38.41	31.93	38.44	0.000552	0.93	941.36	196.96	0.10
Valle	14088.45	TR20	747.00	25.33	38.89	32.33	38.92	0.000538	0.96	1036.01	196.96	0.10
Valle	14088.45	TR50	892.00	25.33	39.67	32.96	39.70	0.000504	0.98	1189.26	196.96	0.10
Valle	14088.45	TR100	1026.00	25.33	40.34	33.44	40.38	0.000481	1.00	1322.96	196.96	0.10
Valle	14088.45	TR200	1185.00	25.33	41.12	35.00	41.16	0.000456	1.02	1476.33	196.96	0.10
Valle	13825.13	TR5	577.00	24.93	37.85	31.57	37.87	0.000443	0.80	956.96	216.67	0.09
Valle	13825.13	TR10	656.00	24.93	38.30	31.99	38.32	0.000427	0.81	1081.73	230.14	0.09
Valle	13825.13	TR20	747.00	24.93	38.78	32.42	38.80	0.000410	0.83	1232.60	246.56	0.09
Valle	13825.13	TR50	892.00	24.93	39.57	33.07	39.59	0.000371	0.83	1427.05	246.56	0.08
Valle	13825.13	TR100	1026.00	24.93	40.26	34.86	40.28	0.000346	0.84	1596.20	246.56	0.08
Valle	13825.13	TR200	1185.00	24.93	41.04	35.08	41.07	0.000321	0.85	1789.97	246.56	0.08
Valle	13676.20	TR5	577.00	24.84	37.77	30.14	37.80	0.000558	0.99	790.83	164.89	0.10
Valle	13676.20	TR10	656.00	24.84	38.23	30.52	38.26	0.000496	0.96	956.54	191.67	0.10
Valle	13676.20	TR20	747.00	24.84	38.71	30.94	38.74	0.000490	0.99	1049.82	191.67	0.10
Valle	13676.20	TR50	892.00	24.84	39.50	31.56	39.54	0.000466	1.01	1201.73	191.67	0.10
Valle	13676.20	TR100	1026.00	24.84	40.19	32.15	40.23	0.000450	1.03	1333.70	191.67	0.09
Valle	13676.20	TR200	1185.00	24.84	40.98	32.79	41.02	0.000432	1.05	1484.79	191.67	0.09
Valle	13449.69	TR5	577.00	24.82	37.69	30.02	37.71	0.000289	0.69	1007.55	195.11	0.08
Valle	13449.69	TR10	656.00	24.82	38.15	30.62	38.17	0.000294	0.73	1097.22	196.66	0.08
Valle	13449.69	TR20	747.00	24.82	38.64	30.88	38.67	0.000277	0.73	1279.36	220.58	0.08
Valle	13449.69	TR50	892.00	24.82	39.44	31.26	39.46	0.000271	0.76	1454.78	220.58	0.08

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	13449.69	TR100	1026.00	24.82	40.13	31.55	40.16	0.000266	0.79	1607.14	220.58	0.08
Valle	13449.69	TR200	1185.00	24.82	40.92	31.88	40.95	0.000260	0.82	1781.59	220.58	0.08
Valle	13207.25	TR5	577.00	24.82	37.57	31.18	37.61	0.000717	1.00	685.11	133.06	0.12
Valle	13207.25	TR10	656.00	24.82	38.04	31.53	38.08	0.000602	0.95	854.34	165.22	0.11
Valle	13207.25	TR20	747.00	24.82	38.54	31.90	38.58	0.000595	0.99	935.86	165.22	0.11
Valle	13207.25	TR50	892.00	24.82	39.34	32.37	39.38	0.000570	1.03	1067.62	165.22	0.11
Valle	13207.25	TR100	1026.00	24.82	40.03	32.90	40.07	0.000552	1.06	1181.94	165.22	0.11
Valle	13207.25	TR200	1185.00	24.82	40.82	33.40	40.87	0.000533	1.09	1312.85	165.22	0.11
Valle	12962.78	TR5	577.00	24.44	37.42	30.12	37.46	0.000590	0.95	768.03	159.99	0.11
Valle	12962.78	TR10	656.00	24.44	37.90	30.51	37.94	0.000579	0.98	844.99	160.88	0.11
Valle	12962.78	TR20	747.00	24.44	38.43	30.92	38.46	0.000416	0.86	1130.88	203.29	0.09
Valle	12962.78	TR50	892.00	24.44	39.24	31.57	39.27	0.000393	0.89	1294.51	203.29	0.09
Valle	12962.78	TR100	1026.00	24.44	39.94	32.22	39.97	0.000377	0.91	1436.24	203.29	0.09
Valle	12962.78	TR200	1185.00	24.44	40.73	32.77	40.77	0.000361	0.93	1598.45	203.29	0.09
Valle	12700.18	TR5	577.00	24.41	37.27	29.57	37.31	0.000560	0.98	678.64	114.41	0.11
Valle	12700.18	TR10	656.00	24.41	37.77	29.86	37.81	0.000475	0.94	860.27	146.46	0.10
Valle	12700.18	TR20	747.00	24.41	38.31	30.17	38.35	0.000480	0.98	938.84	146.46	0.10
Valle	12700.18	TR50	892.00	24.41	39.11	30.62	39.16	0.000484	1.03	1056.80	146.46	0.10
Valle	12700.18	TR100	1026.00	24.41	39.81	30.99	39.86	0.000487	1.08	1158.93	146.46	0.10
Valle	12700.18	TR200	1185.00	24.41	40.61	31.43	40.66	0.000487	1.13	1275.86	146.46	0.10
Valle	12462.76	TR5	577.00	24.49	37.27	29.86	37.27	0.000096	0.38	2345.57	644.65	0.04
Valle	12462.76	TR10	656.00	24.49	37.77	30.23	37.77	0.000083	0.36	2668.64	644.65	0.04
Valle	12462.76	TR20	747.00	24.49	38.31	30.68	38.32	0.000072	0.35	3018.29	644.65	0.04
Valle	12462.76	TR50	892.00	24.49	39.13	31.37	39.13	0.000062	0.35	3542.45	644.65	0.04
Valle	12462.76	TR100	1026.00	24.49	39.83	31.93	39.83	0.000055	0.34	3995.74	644.65	0.03
Valle	12462.76	TR200	1185.00	24.49	40.63	32.99	40.64	0.000050	0.34	4514.33	644.65	0.03
Valle	12145.81	TR5	577.00	24.21	37.25	29.30	37.25	0.000102	0.41	1971.63	448.83	0.05
Valle	12145.81	TR10	656.00	24.21	37.75	29.68	37.75	0.000095	0.41	2197.68	448.83	0.04
Valle	12145.81	TR20	747.00	24.21	38.29	30.08	38.30	0.000089	0.42	2441.99	448.83	0.04
Valle	12145.81	TR50	892.00	24.21	39.11	30.62	39.11	0.000082	0.42	2807.83	448.83	0.04
Valle	12145.81	TR100	1026.00	24.21	39.81	31.05	39.82	0.000077	0.43	3123.97	448.83	0.04
Valle	12145.81	TR200	1185.00	24.21	40.62	31.41	40.62	0.000072	0.44	3485.49	448.83	0.04
Valle	11848.67	TR5	577.00	24.10	37.18	29.26	37.20	0.000364	0.79	940.22	175.35	0.08
Valle	11848.67	TR10	656.00	24.10	37.69	29.65	37.71	0.000361	0.82	1028.77	175.35	0.08
Valle	11848.67	TR20	747.00	24.10	38.23	30.09	38.26	0.000359	0.85	1124.33	175.35	0.09
Valle	11848.67	TR50	892.00	24.10	39.05	30.71	39.07	0.000356	0.89	1267.32	175.35	0.09
Valle	11848.67	TR100	1026.00	24.10	39.75	31.24	39.78	0.000354	0.92	1390.76	175.35	0.09
Valle	11848.67	TR200	1185.00	24.10	40.55	31.72	40.59	0.000351	0.96	1531.91	175.35	0.09
Valle	11572.95	TR5	577.00	24.12	37.03	30.15	37.07	0.000669	1.02	732.95	146.06	0.11
Valle	11572.95	TR10	656.00	24.12	37.54	30.63	37.58	0.000651	1.05	806.98	146.06	0.11
Valle	11572.95	TR20	747.00	24.12	38.08	31.10	38.13	0.000637	1.08	886.76	146.06	0.11
Valle	11572.95	TR50	892.00	24.12	38.90	31.77	38.95	0.000620	1.12	1006.04	146.06	0.11
Valle	11572.95	TR100	1026.00	24.12	39.61	32.41	39.66	0.000608	1.16	1108.92	146.06	0.11
Valle	11572.95	TR200	1185.00	24.12	40.41	33.02	40.47	0.000595	1.20	1226.62	146.06	0.11
Valle	11296.23	TR5	577.00	24.21	36.86	29.17	36.91	0.000541	1.01	686.00	118.53	0.11
Valle	11296.23	TR10	656.00	24.21	37.37	29.52	37.42	0.000556	1.06	745.83	118.53	0.11
Valle	11296.23	TR20	747.00	24.21	37.91	29.86	37.96	0.000571	1.11	810.26	118.53	0.11
Valle	11296.23	TR50	892.00	24.21	38.72	30.31	38.78	0.000590	1.19	906.65	118.53	0.11
Valle	11296.23	TR100	1026.00	24.21	39.43	30.70	39.49	0.000605	1.26	989.78	118.53	0.12
Valle	11296.23	TR200	1185.00	24.21	40.23	31.13	40.30	0.000615	1.32	1085.02	118.53	0.12
Valle	11093.14	TR5	577.00	24.34	36.77	29.65	36.80	0.000567	0.92	822.21	176.12	0.10
Valle	11093.14	TR10	656.00	24.34	37.28	30.06	37.31	0.000540	0.94	911.95	176.12	0.10
Valle	11093.14	TR20	747.00	24.34	37.83	30.49	37.86	0.000518	0.96	1008.50	176.12	0.10
Valle	11093.14	TR50	892.00	24.34	38.65	31.14	38.68	0.000491	0.99	1152.84	176.12	0.10
Valle	11093.14	TR100	1026.00	24.34	39.35	31.72	39.39	0.000474	1.01	1277.26	176.12	0.10
Valle	11093.14	TR200	1185.00	24.34	40.16	32.43	40.20	0.000455	1.04	1419.83	176.12	0.10
Valle	10883.58	TR5	577.00	24.24	36.73	29.65	36.74	0.000192	0.57	1315.42	235.24	0.06
Valle	10883.58	TR10	656.00	24.24	37.24	30.02	37.25	0.000188	0.58	1435.72	235.24	0.06
Valle	10883.58	TR20	747.00	24.24	37.79	30.43	37.80	0.000186	0.60	1565.07	235.24	0.06
Valle	10883.58	TR50	892.00	24.24	38.61	31.10	38.62	0.000183	0.63	1758.41	235.24	0.06
Valle	10883.58	TR100	1026.00	24.24	39.32	32.09	39.33	0.000181	0.65	1925.02	235.24	0.06
Valle	10883.58	TR200	1185.00	24.24	40.13	32.60	40.15	0.000178	0.68	2115.97	235.24	0.06
Valle	10838	Bridge										
Valle	10808.62	TR5	577.00	24.31	36.69	29.67	36.70	0.000217	0.61	1275.88	241.35	0.06
Valle	10808.62	TR10	656.00	24.31	37.20	30.06	37.21	0.000210	0.62	1398.34	241.35	0.06
Valle	10808.62	TR20	747.00	24.31	37.73	30.55	37.74	0.000207	0.64	1525.79	241.35	0.06
Valle	10808.62	TR50	892.00	24.31	38.54	31.57	38.55	0.000202	0.66	1720.68	241.35	0.06
Valle	10808.62	TR100	1026.00	24.31	39.23	32.15	39.25	0.000199	0.68	1887.99	241.35	0.06
Valle	10808.62	TR200	1185.00	24.31	40.01	32.58	40.02	0.000196	0.71	2075.33	241.35	0.06
Valle	10625.76	TR5	577.00	23.84	36.61	29.84	36.65	0.000535	0.93	776.61	141.32	0.10

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	10625.76	TR10	656.00	23.84	37.12	30.16	37.16	0.000531	0.96	848.28	141.32	0.10
Valle	10625.76	TR20	747.00	23.84	37.65	30.54	37.68	0.000535	1.00	922.68	141.32	0.10
Valle	10625.76	TR50	892.00	23.84	38.45	31.14	38.49	0.000535	1.06	1036.51	141.32	0.11
Valle	10625.76	TR100	1026.00	23.84	39.14	31.59	39.19	0.000537	1.11	1134.16	141.32	0.11
Valle	10625.76	TR200	1185.00	23.84	39.92	32.16	39.97	0.000539	1.16	1243.46	141.32	0.11
Valle	10384.01	TR5	577.00	23.63	36.51	28.76	36.54	0.000462	0.91	856.86	171.91	0.09
Valle	10384.01	TR10	656.00	23.63	37.02	29.13	37.05	0.000451	0.93	944.71	171.91	0.09
Valle	10384.01	TR20	747.00	23.63	37.55	29.52	37.58	0.000447	0.96	1035.63	171.91	0.09
Valle	10384.01	TR50	892.00	23.63	38.36	30.15	38.39	0.000438	1.00	1174.82	171.91	0.09
Valle	10384.01	TR100	1026.00	23.63	39.05	30.63	39.09	0.000432	1.03	1294.11	171.91	0.09
Valle	10384.01	TR200	1185.00	23.63	39.83	31.19	39.87	0.000427	1.07	1427.58	171.91	0.09
Valle	10164.65	TR5	577.00	23.68	36.37	29.44	36.42	0.000710	1.11	652.90	115.52	0.12
Valle	10164.65	TR10	656.00	23.68	36.88	29.81	36.94	0.000714	1.16	711.83	115.52	0.12
Valle	10164.65	TR20	747.00	23.68	37.41	30.21	37.47	0.000728	1.21	772.59	115.52	0.12
Valle	10164.65	TR50	892.00	23.68	38.21	30.83	38.28	0.000740	1.29	865.75	115.52	0.13
Valle	10164.65	TR100	1026.00	23.68	38.90	31.29	38.98	0.000752	1.35	945.52	115.52	0.13
Valle	10164.65	TR200	1185.00	23.68	39.68	31.87	39.76	0.000764	1.42	1034.74	115.52	0.13
Valle	9853.624	TR5	577.00	23.70	36.26	29.65	36.28	0.000314	0.73	1073.48	211.73	0.08
Valle	9853.624	TR10	656.00	23.70	36.78	30.09	36.80	0.000301	0.74	1182.80	211.73	0.08
Valle	9853.624	TR20	747.00	23.70	37.31	30.68	37.33	0.000295	0.76	1295.07	211.73	0.08
Valle	9853.624	TR50	892.00	23.70	38.12	31.30	38.14	0.000284	0.79	1467.36	211.73	0.08
Valle	9853.624	TR100	1026.00	23.70	38.82	31.70	38.84	0.000278	0.81	1614.76	211.73	0.08
Valle	9853.624	TR200	1185.00	23.70	39.60	32.81	39.62	0.000273	0.84	1779.59	211.73	0.08
Valle	9716.848	TR5	577.00	23.71	36.17	28.77	36.22	0.000749	1.11	640.78	116.94	0.12
Valle	9716.848	TR10	656.00	23.71	36.68	29.13	36.74	0.000749	1.16	701.04	116.94	0.12
Valle	9716.848	TR20	747.00	23.71	37.21	29.51	37.27	0.000760	1.21	762.72	116.94	0.12
Valle	9716.848	TR50	892.00	23.71	38.02	30.10	38.09	0.000767	1.28	857.46	116.94	0.12
Valle	9716.848	TR100	1026.00	23.71	38.71	30.58	38.78	0.000775	1.34	938.43	116.94	0.13
Valle	9716.848	TR200	1185.00	23.71	39.49	31.18	39.56	0.000784	1.41	1028.93	116.94	0.13
Valle	9552.186	TR5	577.00	23.70	36.04	29.69	36.09	0.000783	1.21	648.31	121.67	0.12
Valle	9552.186	TR10	656.00	23.70	36.56	30.10	36.61	0.000773	1.25	711.21	121.67	0.12
Valle	9552.186	TR20	747.00	23.70	37.08	30.53	37.14	0.000777	1.29	775.32	121.67	0.13
Valle	9552.186	TR50	892.00	23.70	37.89	31.45	37.96	0.000774	1.35	873.97	121.67	0.13
Valle	9552.186	TR100	1026.00	23.70	38.59	32.11	38.66	0.000776	1.41	958.21	121.67	0.13
Valle	9552.186	TR200	1185.00	23.70	39.36	32.54	39.44	0.000778	1.47	1052.38	121.67	0.13
Valle	9422.668	TR5	577.00	23.64	35.99	29.15	36.02	0.000413	0.86	856.36	148.66	0.09
Valle	9422.668	TR10	656.00	23.64	36.51	29.45	36.54	0.000412	0.89	933.37	148.66	0.09
Valle	9422.668	TR20	747.00	23.64	37.04	29.78	37.07	0.000417	0.93	1011.77	148.66	0.09
Valle	9422.668	TR50	892.00	23.64	37.85	30.28	37.89	0.000420	0.98	1132.50	148.66	0.09
Valle	9422.668	TR100	1026.00	23.64	38.54	30.86	38.58	0.000425	1.03	1235.60	148.66	0.10
Valle	9422.668	TR200	1185.00	23.64	39.32	31.87	39.36	0.000429	1.08	1350.86	148.66	0.10
Valle	9270.217	TR5	577.00	23.35	35.90	29.16	35.94	0.000633	1.02	716.69	132.47	0.11
Valle	9270.217	TR10	656.00	23.35	36.42	29.53	36.46	0.000622	1.05	785.38	132.47	0.11
Valle	9270.217	TR20	747.00	23.35	36.95	29.94	36.99	0.000624	1.09	855.06	132.47	0.11
Valle	9270.217	TR50	892.00	23.35	37.76	30.63	37.81	0.000620	1.15	962.51	132.47	0.11
Valle	9270.217	TR100	1026.00	23.35	38.45	31.46	38.51	0.000621	1.20	1054.20	132.47	0.11
Valle	9270.217	TR200	1185.00	23.35	39.23	31.99	39.28	0.000622	1.25	1156.69	132.47	0.12
Valle	9147.280	TR5	577.00	23.56	35.82	28.76	35.86	0.000690	1.07	704.50	136.74	0.11
Valle	9147.280	TR10	656.00	23.56	36.34	29.16	36.38	0.000672	1.09	775.72	136.74	0.11
Valle	9147.280	TR20	747.00	23.56	36.87	29.63	36.91	0.000668	1.13	847.71	136.74	0.11
Valle	9147.280	TR50	892.00	23.56	37.68	30.34	37.73	0.000656	1.18	958.84	136.74	0.11
Valle	9147.280	TR100	1026.00	23.56	38.37	30.97	38.43	0.000651	1.22	1053.59	136.74	0.11
Valle	9147.280	TR200	1185.00	23.56	39.15	31.65	39.21	0.000647	1.27	1159.47	136.74	0.12
Valle	9011.580	TR5	577.00	23.52	35.78	28.64	35.80	0.000339	0.76	1021.45	198.56	0.08
Valle	9011.580	TR10	656.00	23.52	36.30	29.03	36.32	0.000325	0.77	1125.48	198.56	0.08
Valle	9011.580	TR20	747.00	23.52	36.83	29.46	36.85	0.000320	0.79	1230.48	198.56	0.08
Valle	9011.580	TR50	892.00	23.52	37.65	30.13	37.67	0.000310	0.82	1392.59	198.56	0.08
Valle	9011.580	TR100	1026.00	23.52	38.34	30.82	38.37	0.000304	0.85	1530.75	198.56	0.08
Valle	9011.580	TR200	1185.00	23.52	39.12	32.38	39.15	0.000300	0.87	1685.14	198.56	0.08
Valle	8866.367	TR5	577.00	23.49	35.71	29.11	35.74	0.000449	0.87	845.19	155.65	0.09
Valle	8866.367	TR10	656.00	23.49	36.24	29.55	36.27	0.000439	0.90	926.90	155.65	0.09
Valle	8866.367	TR20	747.00	23.49	36.77	29.99	36.80	0.000439	0.93	1009.11	155.65	0.10
Valle	8866.367	TR50	892.00	23.49	37.58	30.47	37.62	0.000434	0.98	1136.14	155.65	0.10
Valle	8866.367	TR100	1026.00	23.49	38.28	30.94	38.32	0.000433	1.02	1244.31	155.65	0.10
Valle	8866.367	TR200	1185.00	23.49	39.05	31.55	39.10	0.000433	1.07	1365.16	155.65	0.10
Valle	8790.411	TR5	577.00	23.54	35.67	29.12	35.70	0.000584	0.97	757.27	139.53	0.11
Valle	8790.411	TR10	656.00	23.54	36.19	29.55	36.23	0.000570	1.00	830.59	139.53	0.11
Valle	8790.411	TR20	747.00	23.54	36.72	30.04	36.76	0.000570	1.04	904.22	139.53	0.11
Valle	8790.411	TR50	892.00	23.54	37.54	30.63	37.58	0.000564	1.09	1018.03	139.53	0.11
Valle	8790.411	TR100	1026.00	23.54	38.23	31.19	38.28	0.000562	1.14	1114.91	139.53	0.11
Valle	8790.411	TR200	1185.00	23.54	39.01	31.91	39.06	0.000562	1.19	1223.11	139.53	0.11

HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	8676.232	TR5	577.00	23.38	35.63	28.77	35.65	0.000358	0.80	982.60	189.76	0.08
Valle	8676.232	TR10	656.00	23.38	36.16	29.18	36.18	0.000344	0.81	1082.86	189.76	0.08
Valle	8676.232	TR20	747.00	23.38	36.69	29.70	36.72	0.000339	0.84	1183.36	189.76	0.08
Valle	8676.232	TR50	892.00	23.38	37.51	30.46	37.54	0.000330	0.87	1338.77	189.76	0.08
Valle	8676.232	TR100	1026.00	23.38	38.21	31.09	38.23	0.000325	0.90	1471.00	189.76	0.08
Valle	8676.232	TR200	1185.00	23.38	38.99	31.70	39.02	0.000321	0.93	1618.67	189.76	0.08
Valle	8556.530	TR5	577.00	23.65	35.59	29.98	35.61	0.000461	0.88	863.55	159.91	0.09
Valle	8556.530	TR10	656.00	23.65	36.12	30.52	36.15	0.000446	0.90	948.23	159.91	0.09
Valle	8556.530	TR20	747.00	23.65	36.65	30.82	36.68	0.000443	0.93	1032.92	159.91	0.09
Valle	8556.530	TR50	892.00	23.65	37.47	31.32	37.50	0.000435	0.97	1163.91	159.91	0.09
Valle	8556.530	TR100	1026.00	23.65	38.16	31.78	38.20	0.000432	1.01	1275.29	159.91	0.09
Valle	8556.530	TR200	1185.00	23.65	38.94	32.20	38.98	0.000430	1.05	1399.64	159.91	0.09
Valle	8447.122	TR5	577.00	23.17	35.53	28.79	35.57	0.000571	1.03	741.30	133.04	0.11
Valle	8447.122	TR10	656.00	23.17	36.06	29.24	36.10	0.000563	1.06	811.85	133.04	0.11
Valle	8447.122	TR20	747.00	23.17	36.59	29.76	36.63	0.000568	1.10	882.20	133.04	0.11
Valle	8447.122	TR50	892.00	23.17	37.41	30.65	37.45	0.000569	1.16	991.09	133.04	0.11
Valle	8447.122	TR100	1026.00	23.17	38.10	31.08	38.15	0.000573	1.21	1083.60	133.04	0.11
Valle	8447.122	TR200	1185.00	23.17	38.88	31.47	38.93	0.000578	1.26	1186.86	133.04	0.11
Valle	8312.702	TR5	577.00	23.26	35.46	28.36	35.49	0.000522	0.99	760.69	132.40	0.10
Valle	8312.702	TR10	656.00	23.26	35.99	28.74	36.03	0.000518	1.03	830.98	132.40	0.10
Valle	8312.702	TR20	747.00	23.26	36.52	29.16	36.56	0.000527	1.07	900.84	132.40	0.10
Valle	8312.702	TR50	892.00	23.26	37.33	30.03	37.38	0.000533	1.13	1009.13	132.40	0.11
Valle	8312.702	TR100	1026.00	23.26	38.03	30.47	38.08	0.000540	1.18	1101.09	132.40	0.11
Valle	8312.702	TR200	1185.00	23.26	38.80	30.90	38.86	0.000549	1.24	1203.72	132.40	0.11
Valle	8195.470	TR5	577.00	23.09	35.40	28.33	35.43	0.000488	0.94	799.97	144.10	0.10
Valle	8195.470	TR10	656.00	23.09	35.93	28.69	35.97	0.000481	0.97	876.63	144.10	0.10
Valle	8195.470	TR20	747.00	23.09	36.46	29.07	36.50	0.000485	1.00	952.63	144.10	0.10
Valle	8195.470	TR50	892.00	23.09	37.28	29.87	37.32	0.000485	1.06	1070.57	144.10	0.10
Valle	8195.470	TR100	1026.00	23.09	37.97	30.44	38.02	0.000488	1.10	1170.67	144.10	0.10
Valle	8195.470	TR200	1185.00	23.09	38.75	30.96	38.80	0.000492	1.15	1282.40	144.10	0.10
Valle	8088.245	TR5	577.00	23.28	35.31	28.55	35.37	0.000763	1.22	621.14	110.93	0.12
Valle	8088.245	TR10	656.00	23.28	35.84	28.93	35.90	0.000760	1.26	680.08	110.93	0.12
Valle	8088.245	TR20	747.00	23.28	36.37	29.32	36.43	0.000775	1.31	738.25	110.93	0.13
Valle	8088.245	TR50	892.00	23.28	37.18	29.94	37.26	0.000786	1.39	828.66	110.93	0.13
Valle	8088.245	TR100	1026.00	23.28	37.88	30.45	37.95	0.000798	1.45	905.34	110.93	0.13
Valle	8088.245	TR200	1185.00	23.28	38.65	31.50	38.73	0.000811	1.53	990.90	110.93	0.13
Valle	7848.724	TR5	577.00	23.63	35.20	28.68	35.23	0.000501	0.93	791.83	143.49	0.10
Valle	7848.724	TR10	656.00	23.63	35.73	29.01	35.77	0.000491	0.96	868.55	143.49	0.10
Valle	7848.724	TR20	747.00	23.63	36.26	29.36	36.29	0.000496	1.00	943.83	143.49	0.10
Valle	7848.724	TR50	892.00	23.63	37.07	30.20	37.11	0.000495	1.05	1061.13	143.49	0.10
Valle	7848.724	TR100	1026.00	23.63	37.77	30.71	37.81	0.000497	1.10	1160.53	143.49	0.10
Valle	7848.724	TR200	1185.00	23.63	38.54	31.14	38.59	0.000501	1.16	1271.45	143.49	0.11
Valle	7708.453	TR5	577.00	23.86	35.05	29.46	35.13	0.001122	1.40	540.87	100.76	0.15
Valle	7708.453	TR10	656.00	23.86	35.59	30.15	35.67	0.001102	1.44	594.76	100.76	0.15
Valle	7708.453	TR20	747.00	23.86	36.11	30.53	36.19	0.001115	1.50	647.22	100.76	0.15
Valle	7708.453	TR50	892.00	23.86	36.92	30.96	37.01	0.001116	1.57	729.17	100.76	0.15
Valle	7708.453	TR100	1026.00	23.86	37.61	31.31	37.71	0.001124	1.65	798.49	100.76	0.15
Valle	7708.453	TR200	1185.00	23.86	38.38	31.67	38.49	0.001135	1.72	875.81	100.76	0.16
Valle	7517.986	TR5	577.00	23.50	34.88	28.10	34.94	0.000852	1.24	566.98	98.48	0.13
Valle	7517.986	TR10	656.00	23.50	35.41	28.41	35.48	0.000860	1.29	619.60	98.48	0.13
Valle	7517.986	TR20	747.00	23.50	35.93	28.73	36.00	0.000891	1.36	670.31	98.48	0.14
Valle	7517.986	TR50	892.00	23.50	36.73	29.21	36.82	0.000918	1.46	749.95	98.48	0.14
Valle	7517.986	TR100	1026.00	23.50	37.42	29.63	37.51	0.000944	1.54	817.23	98.48	0.14
Valle	7517.986	TR200	1185.00	23.50	38.18	30.13	38.29	0.000971	1.63	892.31	98.48	0.15
Valle	7344.482	TR5	577.00	23.42	34.77	28.26	34.81	0.000650	1.11	677.55	115.86	0.11
Valle	7344.482	TR10	656.00	23.42	35.30	28.52	35.35	0.000649	1.15	739.63	115.86	0.11
Valle	7344.482	TR20	747.00	23.42	35.82	28.80	35.87	0.000668	1.20	799.07	115.86	0.12
Valle	7344.482	TR50	892.00	23.42	36.63	29.22	36.69	0.000682	1.28	892.77	115.86	0.12
Valle	7344.482	TR100	1026.00	23.42	37.31	29.57	37.37	0.000698	1.34	971.88	115.86	0.12
Valle	7344.482	TR200	1185.00	23.42	38.07	30.00	38.14	0.000714	1.41	1060.20	115.86	0.13
Valle	7231.088	TR5	577.00	23.03	34.72	28.09	34.75	0.000495	0.97	757.60	127.88	0.10
Valle	7231.088	TR10	656.00	23.03	35.26	28.29	35.29	0.000494	1.00	826.21	127.88	0.10
Valle	7231.088	TR20	747.00	23.03	35.77	28.65	35.81	0.000510	1.06	891.70	127.88	0.11
Valle	7231.088	TR50	892.00	23.03	36.58	29.02	36.62	0.000521	1.12	995.11	127.88	0.11
Valle	7231.088	TR100	1026.00	23.03	37.26	29.31	37.31	0.000534	1.18	1082.39	127.88	0.11
Valle	7231.088	TR200	1185.00	23.03	38.02	29.63	38.08	0.000547	1.25	1179.85	127.88	0.11
Valle	7100.234	TR5	577.00	23.50	34.62	28.51	34.67	0.000776	1.23	628.75	109.34	0.13
Valle	7100.234	TR10	656.00	23.50	35.16	28.77	35.21	0.000771	1.27	687.37	109.34	0.13
Valle	7100.234	TR20	747.00	23.50	35.67	29.06	35.73	0.000793	1.33	742.95	109.34	0.13
Valle	7100.234	TR50	892.00	23.50	36.47	29.41	36.54	0.000808	1.41	830.96	109.34	0.13
Valle	7100.234	TR100	1026.00	23.50	37.15	29.65	37.23	0.000825	1.48	905.17	109.34	0.13
Valle	7100.234	TR200	1185.00	23.50	37.91	30.68	37.99	0.000843	1.56	988.03	109.34	0.14

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	6703.219	TR5	577.00	21.42	34.20	27.55	34.30	0.001218	1.50	468.42	79.61	0.16
Valle	6703.219	TR10	656.00	21.42	34.74	27.95	34.84	0.001241	1.57	510.69	79.61	0.16
Valle	6703.219	TR20	747.00	21.42	35.22	28.39	35.34	0.001312	1.67	549.51	79.61	0.16
Valle	6703.219	TR50	892.00	21.42	36.01	28.95	36.14	0.001377	1.79	612.03	79.61	0.17
Valle	6703.219	TR100	1026.00	21.42	36.67	29.45	36.82	0.001437	1.90	664.52	79.61	0.18
Valle	6703.219	TR200	1185.00	21.42	37.40	29.95	37.57	0.001499	2.02	723.17	79.61	0.18
Valle	6619.828	TR5	577.00	21.68	34.04	27.67	34.18	0.001670	1.79	388.04	62.99	0.18
Valle	6619.828	TR10	656.00	21.68	34.57	28.07	34.72	0.001730	1.88	420.94	62.99	0.19
Valle	6619.828	TR20	747.00	21.68	35.04	28.54	35.21	0.001857	2.01	450.70	62.99	0.19
Valle	6619.828	TR50	892.00	21.68	35.81	29.13	36.01	0.001989	2.17	499.00	62.99	0.20
Valle	6619.828	TR100	1026.00	21.68	36.45	29.60	36.67	0.002109	2.32	539.44	62.99	0.21
Valle	6619.828	TR200	1185.00	21.68	37.16	30.10	37.42	0.002233	2.48	584.65	62.99	0.22
Valle	6531.506	TR5	577.00	21.88	33.87	27.72	34.03	0.001875	1.87	365.37	53.06	0.19
Valle	6531.506	TR10	656.00	21.88	34.38	28.10	34.56	0.001976	1.99	392.44	53.06	0.20
Valle	6531.506	TR20	747.00	21.88	34.83	28.52	35.04	0.002159	2.14	416.43	53.06	0.21
Valle	6531.506	TR50	892.00	21.88	35.58	29.12	35.81	0.002369	2.34	455.75	53.06	0.22
Valle	6531.506	TR100	1026.00	21.88	36.19	29.63	36.47	0.002558	2.52	488.56	53.06	0.23
Valle	6531.506	TR200	1185.00	21.88	36.89	30.19	37.20	0.002759	2.72	525.23	53.06	0.24
Valle	6525		Bridge									
Valle	6518.361	TR5	577.00	21.88	33.74	27.71	33.91	0.001954	2.00	358.24	53.06	0.20
Valle	6518.361	TR10	656.00	21.88	34.25	28.10	34.44	0.002057	2.12	385.50	53.06	0.21
Valle	6518.361	TR20	747.00	21.88	34.70	28.53	34.92	0.002252	2.28	409.24	53.06	0.22
Valle	6518.361	TR50	892.00	21.88	35.44	29.14	35.70	0.002473	2.50	448.48	53.06	0.23
Valle	6518.361	TR100	1026.00	21.88	36.05	29.77	36.35	0.002674	2.69	481.12	53.06	0.24
Valle	6518.361	TR200	1185.00	21.88	36.74	30.34	37.08	0.002888	2.89	517.59	53.06	0.25
Valle	6483.421	TR5	577.00	22.16	33.70	27.83	33.84	0.001744	1.80	370.43	54.89	0.19
Valle	6483.421	TR10	656.00	22.16	34.21	28.12	34.37	0.001835	1.91	398.51	54.89	0.20
Valle	6483.421	TR20	747.00	2								

## HEC-RAS Plan: Steady\_SDF\_PR (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
Valle	5475.597	TR5	577.00	19.87	32.21	23.28	32.26	0.000331	1.01	592.26	253.74	0.10
Valle	5475.597	TR10	656.00	19.87	32.73	23.56	32.79	0.000339	1.06	669.93	268.64	0.11
Valle	5475.597	TR20	747.00	19.87	33.13	23.87	33.15	0.000164	0.76	1356.90	268.64	0.07
Valle	5475.597	TR50	892.00	19.87	33.85	24.33	33.87	0.000160	0.78	1551.01	268.64	0.07
Valle	5475.597	TR100	1026.00	19.87	34.43	24.73	34.45	0.000160	0.81	1707.45	268.64	0.07
Valle	5475.597	TR200	1185.00	19.87	35.09	25.19	35.12	0.000159	0.84	1885.06	268.64	0.08
Valle	5226.847	TR5	577.00	19.75	31.98	25.75	32.12	0.001136	1.85	379.67	70.09	0.19
Valle	5226.847	TR10	656.00	19.75	32.50	26.18	32.65	0.001120	1.90	461.12	100.31	0.19
Valle	5226.847	TR20	747.00	19.75	32.90	26.65	33.06	0.001177	2.00	501.62	100.31	0.19
Valle	5226.847	TR50	892.00	19.75	33.62	27.28	33.79	0.001184	2.10	573.41	100.31	0.20
Valle	5226.847	TR100	1026.00	19.75	34.19	27.79	34.37	0.001210	2.19	630.77	100.31	0.20
Valle	5226.847	TR200	1185.00	19.75	34.84	28.22	35.03	0.001228	2.28	696.00	100.31	0.20
Valle	5074.211	TR5	577.00	19.77	31.92	25.30	32.00	0.000666	1.44	506.30	92.58	0.15
Valle	5074.211	TR10	656.00	19.77	32.42	25.77	32.52	0.000722	1.55	566.22	113.87	0.15
Valle	5074.211	TR20	747.00	19.77	32.82	26.36	32.93	0.000762	1.64	611.86	113.87	0.16
Valle	5074.211	TR50	892.00	19.77	33.54	26.88	33.65	0.000770	1.72	693.54	113.87	0.16
Valle	5074.211	TR100	1026.00	19.77	34.11	27.26	34.23	0.000791	1.80	758.64	113.87	0.16
Valle	5074.211	TR200	1185.00	19.77	34.76	27.74	34.89	0.000807	1.88	832.79	113.87	0.17
Valle	4870.517	TR5	577.00	19.79	31.87	25.27	31.91	0.000364	0.98	787.70	176.01	0.11
Valle	4870.517	TR10	656.00	19.79	32.39	25.63	32.43	0.000339	0.98	907.27	194.13	0.10
Valle	4870.517	TR20	747.00	19.79	32.80	26.02	32.83	0.000346	1.02	985.74	194.13	0.11
Valle	4870.517	TR50	892.00	19.79	33.52	26.56	33.56	0.000332	1.05	1126.55	194.13	0.10
Valle	4870.517	TR100	1026.00	19.79	34.10	27.04	34.14	0.000330	1.08	1238.69	194.13	0.11
Valle	4870.517	TR200	1185.00	19.79	34.76	27.63	34.80	0.000326	1.12	1366.44	194.13	0.11
Valle	4666.209	TR5	577.00	20.34	31.79	26.04	31.84	0.000414	1.10	759.91	186.07	0.12
Valle	4666.209	TR10	656.00	20.34	32.32	26.39	32.36	0.000388	1.10	882.90	204.26	0.11
Valle	4666.209	TR20	747.00	20.34	32.73	26.70	32.77	0.000389	1.13	965.50	204.26	0.11
Valle	4666.209	TR50	892.00	20.34	33.46	27.13	33.50	0.000364	1.15	1114.79	204.26	0.11
Valle	4666.209	TR100	1026.00	20.34	34.04	27.49	34.08	0.000355	1.17	1233.19	204.26	0.11
Valle	4666.209	TR200	1185.00	20.34	34.70	27.84	34.74	0.000346	1.20	1368.08	204.26	0.11
Valle	4447.481	TR5	577.00	20.24	31.70	24.77	31.75	0.000397	1.13	652.04	126.45	0.12
Valle	4447.481	TR10	656.00	20.24	32.23	25.10	32.28	0.000379	1.14	765.48	148.40	0.12
Valle	4447.481	TR20	747.00	20.24	32.63	25.45	32.69	0.000400	1.21	851.70	162.42	0.12
Valle	4447.481	TR50	892.00	20.24	33.36	26.02	33.42	0.000397	1.26	970.58	162.42	0.12
Valle	4447.481	TR100	1026.00	20.24	33.94	26.45	34.00	0.000404	1.31	1064.48	162.42	0.12
Valle	4447.481	TR200	1185.00	20.24	34.60	26.89	34.67	0.000408	1.37	1171.55	162.42	0.12
Valle	4272.079	TR5	577.00	19.63	31.69	25.24	31.72	0.000168	0.77	919.21	131.85	0.08
Valle	4272.079	TR10	656.00	19.63	32.22	25.41	32.24	0.000193	0.85	1039.61	167.05	0.08
Valle	4272.079	TR20	747.00	19.63	32.62	25.50	32.65	0.000207	0.91	1106.22	167.05	0.09
Valle	4272.079	TR50	892.00	19.63	33.35	25.87	33.38	0.000215	0.96	1228.30	167.05	0.09
Valle	4272.079	TR100	1026.00	19.63	33.93	26.08	33.96	0.000226	1.02	1324.69	167.05	0.09
Valle	4272.079	TR200	1185.00	19.63	34.58	26.32	34.62	0.000236	1.08	1434.66	167.05	0.09
Valle	4041.925	TR5	577.00	18.95	31.64	24.93	31.67	0.000218	0.89	834.75	132.79	0.09
Valle	4041.925	TR10	656.00	18.95	32.16	25.25	32.19	0.000241	0.97	914.45	147.44	0.09
Valle	4041.925	TR20	747.00	18.95	32.56	25.51	32.59	0.000265	1.04	997.55	162.02	0.10
Valle	4041.925	TR50	892.00	18.95	33.28	25.86	33.32	0.000272	1.10	1115.62	162.02	0.10
Valle	4041.925	TR100	1026.00	18.95	33.86	26.14	33.90	0.000283	1.16	1208.62	162.02	0.10
Valle	4041.925	TR200	1185.00	18.95	34.51	26.47	34.56	0.000294	1.22	1314.83	162.02	0.11
Valle	3886.456	TR5	577.00	18.86	31.62	25.00	31.64	0.000183	0.77	957.41	159.36	0.08
Valle	3886.456	TR10	656.00	18.86	32.14	25.29	32.16	0.000191	0.81	1060.22	178.11	0.08
Valle	3886.456	TR20	747.00	18.86	32.53	25.76	32.56	0.000208	0.86	1131.57	183.18	0.08
Valle	3886.456	TR50	892.00	18.86	33.26	26.06	33.29	0.000212	0.91	1265.07	183.18	0.08
Valle	3886.456	TR100	1026.00	18.86	33.83	26.31	33.86	0.000220	0.96	1370.12	183.18	0.09
Valle	3886.456	TR200	1185.00	18.86	34.49	26.56	34.52	0.000227	1.01	1490.15	183.18	0.09
Valle	3715.149	TR5	577.00	19.80	31.51	25.10	31.59	0.000632	1.42	522.97	99.09	0.14
Valle	3715.149	TR10	656.00	19.80	32.02	25.44	32.11	0.000665	1.51	576.68	112.35	0.15
Valle	3715.149	TR20	747.00	19.80	32.40	25.83	32.50	0.000715	1.60	619.73	113.85	0.16
Valle	3715.149	TR50	892.00	19.80	33.13	26.55	33.23	0.000729	1.69	726.76	128.37	0.16
Valle	3715.149	TR100	1026.00	19.80	33.70	27.15	33.81	0.000738	1.76	799.80	128.37	0.16
Valle	3715.149	TR200	1185.00	19.80	34.35	27.63	34.46	0.000741	1.82	883.38	128.37	0.16
Valle	3393.206	TR5	577.00	19.65	31.12	25.44	31.30	0.001482	2.09	334.68	56.24	0.21
Valle	3393.206	TR10	656.00	19.65	31.60	25.83	31.80	0.001569	2.22	362.63	59.34	0.22
Valle	3393.206	TR20	747.00	19.65	32.05	26.24	32.21	0.001316	2.09	496.00	99.06	0.20
Valle	3393.206	TR50	892.00	19.65	32.77	26.83	32.94	0.001303	2.17	567.59	99.06	0.20
Valle	3393.206	TR100	1026.00	19.65	33.33	27.39	33.51	0.001329	2.26	623.09	99.06	0.21
Valle	3393.206	TR200	1185.00	19.65	33.97	27.99	34.17	0.001343	2.35	686.92	99.06	0.21
Valle	3237.633	TR5	577.00	19.44	30.99	24.05	31.12	0.000955	1.63	382.51	55.87	0.17
Valle	3237.633	TR10	656.00	19.44	31.46	24.41	31.61	0.001025	1.75	409.32	57.72	0.18
Valle	3237.633	TR20	747.00	19.44	31.85	24.80	32.02	0.001148	1.90	446.39	72.11	0.19
Valle	3237.633	TR50	892.00	19.44	32.55	25.39	32.74	0.001227	2.05	519.33	89.25	0.20
Valle	3237.633	TR100	1026.00	19.44	33.09	25.88	33.30	0.001305	2.18	567.68	89.25	0.21



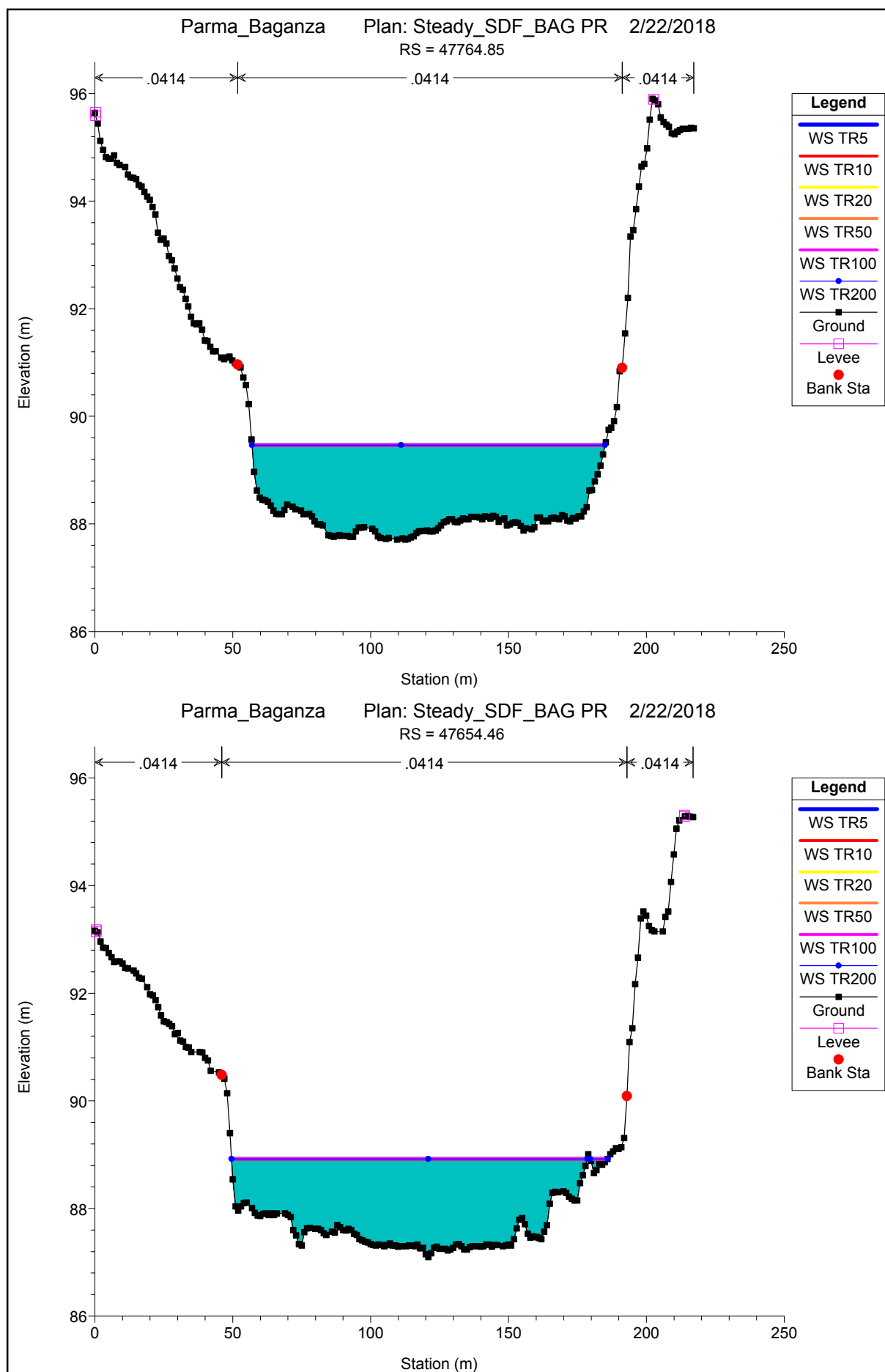
HEC-RAS Plan: Steady\_SDF\_PR (Continued)

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
Valle	3237.633	TR200	1185.00	19.44	33.72	26.44	33.96	0.001369	2.32	623.76	89.25	0.21
Valle	3101.790	TR5	577.00	19.21	30.89	24.48	30.99	0.000925	1.61	462.39	96.35	0.16
Valle	3101.790	TR10	656.00	19.21	31.37	24.91	31.48	0.000930	1.66	509.31	99.69	0.17
Valle	3101.790	TR20	747.00	19.21	31.79	25.38	31.88	0.000852	1.63	620.18	121.69	0.16
Valle	3101.790	TR50	892.00	19.21	32.50	26.09	32.60	0.000879	1.73	712.86	131.31	0.16
Valle	3101.790	TR100	1026.00	19.21	33.05	26.62	33.16	0.000883	1.79	785.53	131.31	0.16
Valle	3101.790	TR200	1185.00	19.21	33.69	27.40	33.81	0.000877	1.85	869.84	131.31	0.17
Valle	2918.544	TR5	577.00	19.02	30.81	24.80	30.87	0.000571	1.22	675.98	175.42	0.13
Valle	2918.544	TR10	656.00	19.02	31.30	25.21	31.35	0.000536	1.22	763.76	181.47	0.13
Valle	2918.544	TR20	747.00	19.02	31.71	25.72	31.77	0.000533	1.26	838.13	182.12	0.13
Valle	2918.544	TR50	892.00	19.02	32.43	26.29	32.49	0.000502	1.28	971.81	190.85	0.12
Valle	2918.544	TR100	1026.00	19.02	32.99	26.82	33.05	0.000488	1.30	1078.49	190.85	0.12
Valle	2918.544	TR200	1185.00	19.02	33.64	27.38	33.70	0.000469	1.32	1202.32	190.85	0.12
Valle	2668.802	TR5	577.00	18.53	30.66	23.77	30.74	0.000622	1.40	541.97	110.43	0.14
Valle	2668.802	TR10	656.00	18.53	31.14	24.13	31.23	0.000653	1.48	608.18	130.03	0.14
Valle	2668.802	TR20	747.00	18.53	31.60	24.53	31.66	0.000474	1.30	841.22	173.65	0.12
Valle	2668.802	TR50	892.00	18.53	32.33	25.12	32.39	0.000456	1.33	967.37	173.65	0.12
Valle	2668.802	TR100	1026.00	18.53	32.89	25.66	32.95	0.000457	1.37	1064.65	173.65	0.12
Valle	2668.802	TR200	1185.00	18.53	33.54	26.26	33.60	0.000452	1.41	1177.72	173.65	0.12
Valle	2310.634	TR5	577.00	18.52	30.17	24.60	30.39	0.001702	2.18	311.59	55.29	0.23
Valle	2310.634	TR10	656.00	18.52	30.62	25.03	30.86	0.001792	2.31	336.80	56.23	0.23
Valle	2310.634	TR20	747.00	18.52	31.09	25.47	31.35	0.001901	2.45	363.33	57.54	0.24
Valle	2310.634	TR50	892.00	18.52	31.82	26.10	32.09	0.001910	2.57	469.07	95.41	0.25
Valle	2310.634	TR100	1026.00	18.52	32.37	26.64	32.65	0.001935	2.68	521.42	95.41	0.25
Valle	2310.634	TR200	1185.00	18.52	33.01	27.27	33.31	0.001926	2.77	583.06	95.41	0.25
Valle	2114.658	TR5	577.00	18.16	30.08	23.72	30.17	0.000768	1.53	497.08	108.59	0.16
Valle	2114.658	TR10	656.00	18.16	30.54	24.10	30.64	0.000771	1.58	547.93	110.14	0.16
Valle	2114.658	TR20	747.00	18.16	31.02	24.58	31.12	0.000793	1.66	601.10	115.13	0.16
Valle	2114.658	TR50	892.00	18.16	31.74	25.23	31.86	0.000809	1.75	688.57	122.62	0.17
Valle	2114.658	TR100	1026.00	18.16	32.32	25.69	32.42	0.000767	1.76	829.10	147.62	0.16
Valle	2114.658	TR200	1185.00	18.16	32.97	26.19	33.08	0.000750	1.80	926.10	147.62	0.16
Valle	2013.439	TR5	577.00	19.10	30.02	23.92	30.10	0.000725	1.40	539.84	130.05	0.15
Valle	2013.439	TR10	656.00	19.10	30.48	24.25	30.57	0.000710	1.43	601.35	132.60	0.15
Valle	2013.439	TR20	747.00	19.10	30.97	24.61	31.05	0.000703	1.47	665.74	134.93	0.15
Valle	2013.439	TR50	892.00	19.10	31.69	25.16	31.78	0.000705	1.55	766.61	146.63	0.15
Valle	2013.439	TR100	1026.00	19.10	32.25	25.64	32.35	0.000729	1.63	867.72	162.06	0.16
Valle	2013.439	TR200	1185.00	19.10	32.91	26.18	33.01	0.000701	1.66	974.81	162.06	0.16
Valle	2000	Bridge										
Valle	1985.120	TR5	577.00	19.10	29.97	23.91	30.05	0.000761	1.38	534.51	129.78	0.15
Valle	1985.120	TR10	656.00	19.10	30.44	24.25	30.52	0.000743	1.41	595.45	132.36	0.15
Valle	1985.120	TR20	747.00	19.10	30.92	24.61	31.00	0.000734	1.46	659.15	134.76	0.15
Valle	1985.120	TR50	892.00	19.10	31.58	25.16	31.68	0.000756	1.55	750.98	146.39	0.16
Valle	1985.120	TR100	1026.00	19.10	32.12	25.65	32.22	0.000761	1.61	829.83	148.30	0.16
Valle	1985.120	TR200	1185.00	19.10	32.73	26.22	32.83	0.000774	1.68	944.51	162.06	0.16
Valle	1887.897	TR5	577.00	18.85	29.93	24.18	29.99	0.000525	1.32	571.75	107.29	0.13
Valle	1887.897	TR10	656.00	18.85	30.39	24.46	30.46	0.000540	1.38	621.39	108.03	0.14
Valle	1887.897	TR20	747.00	18.85	30.86	24.72	30.94	0.000562	1.45	672.63	108.93	0.14
Valle	1887.897	TR50	892.00	18.85	31.52	25.10	31.61	0.000600	1.56	745.07	110.08	0.15
Valle	1887.897	TR100	1026.00	18.85	32.05	25.41	32.15	0.000644	1.67	803.72	111.95	0.15
Valle	1887.897	TR200	1185.00	18.85	32.64	25.76	32.75	0.000761	1.87	887.11	129.32	0.17
Valle	1720.414	TR5	577.00	18.66	29.62	24.19	29.84	0.001790	2.25	315.94	63.29	0.23
Valle	1720.414	TR10	656.00	18.66	30.06	24.59	30.31	0.001863	2.37	344.07	63.76	0.24
Valle	1720.414	TR20	747.00	18.66	30.51	25.03	30.78	0.001961	2.50	372.80	64.32	0.25
Valle	1720.414	TR50	892.00	18.66	31.13	25.82	31.44	0.002133	2.71	413.01	65.27	0.26
Valle	1720.414	TR100	1026.00	18.66	31.62	26.39	31.96	0.002321	2.91	444.96	66.93	0.27
Valle	1720.414	TR200	1185.00	18.66	32.15	26.90	32.54	0.002526	3.13	496.48	80.74	0.29
Valle	1573.032	TR5	577.00	16.79	29.50	22.55	29.65	0.001003	1.96	398.28	76.24	0.19
Valle	1573.032	TR10	656.00	16.79	29.93	22.92	30.10	0.001059	2.07	431.83	76.79	0.19
Valle	1573.032	TR20	747.00	16.79	30.38	23.31	30.56	0.001130	2.19	465.98	77.45	0.20
Valle	1573.032	TR50	892.00	16.79	30.99	23.87	31.20	0.001256	2.39	513.61	79.35	0.21
Valle	1573.032	TR100	1026.00	16.79	31.49	24.38	31.71	0.001307	2.50	597.71	99.54	0.22
Valle	1573.032	TR200	1185.00	16.79	32.02	24.93	32.27	0.001392	2.65	651.14	99.54	0.23
Valle	1438.146	TR5	577.00	18.16	29.30	23.72	29.48	0.001585	1.98	334.97	66.36	0.22
Valle	1438.146	TR10	656.00	18.16	29.75	24.07	29.93	0.001545	2.02	395.99	84.23	0.21
Valle	1438.146	TR20	747.00	18.16	30.19	24.46	30.38	0.001599	2.12	432.97	85.16	0.22
Valle	1438.146	TR50	892.00	18.16	30.79	25.04	31.01	0.001703	2.28	484.37	86.96	0.23
Valle	1438.146	TR100	1026.00	18.16	31.27	25.53	31.51	0.001764	2.39	551.99	108.28	0.23
Valle	1438.146	TR200	1185.00	18.16	31.80	26.09	32.06	0.001827	2.52	609.32	108.28	0.24
Valle	1260.633	TR5	577.00	18.05	29.06	23.51	29.22	0.001362	1.94	357.21	66.52	0.21
Valle	1260.633	TR10	656.00	18.05	29.49	23.88	29.67	0.001435	2.05	386.04	68.40	0.21

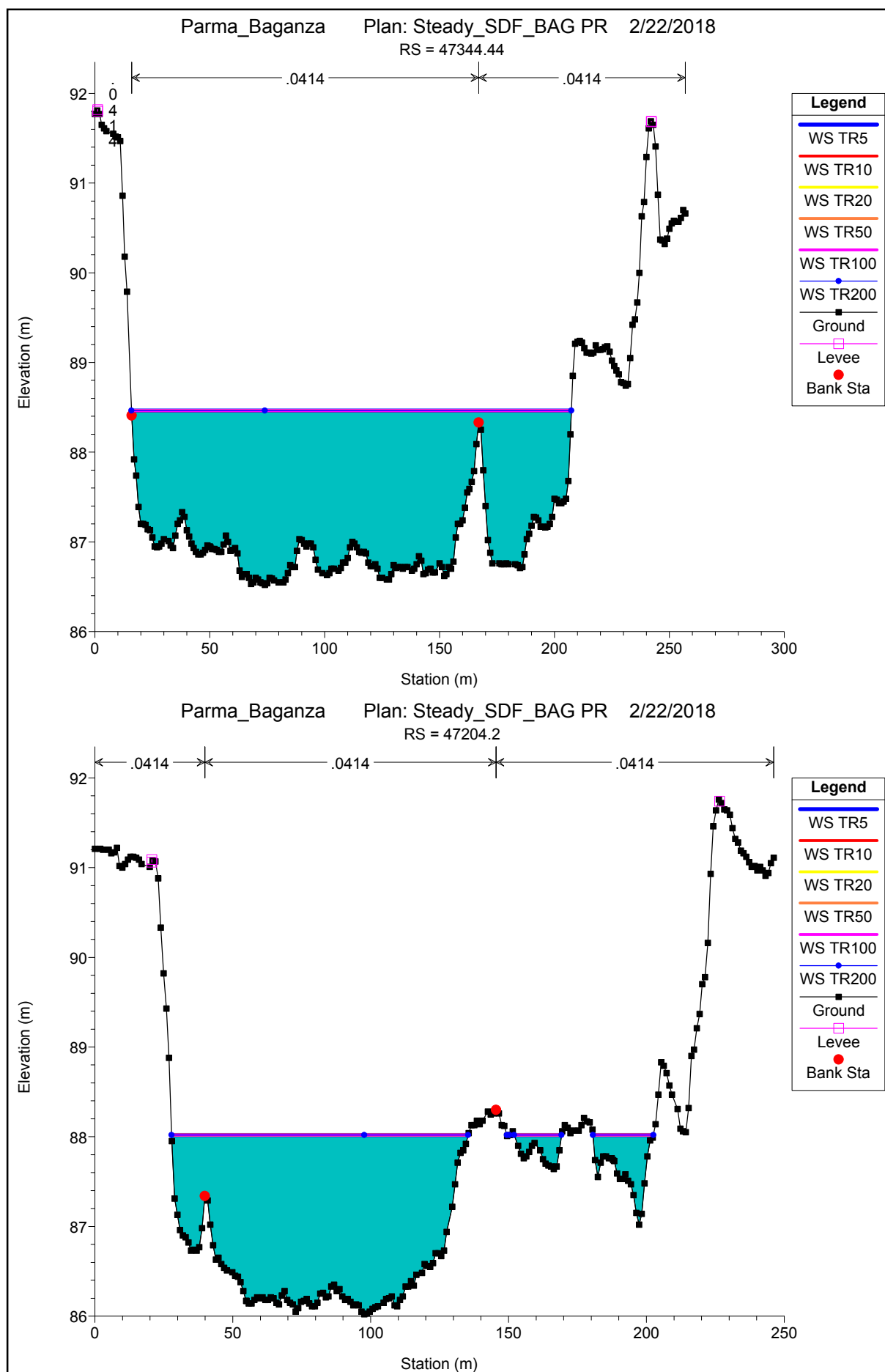
HEC-RAS Plan: Steady\_SDF\_PR (Continued)

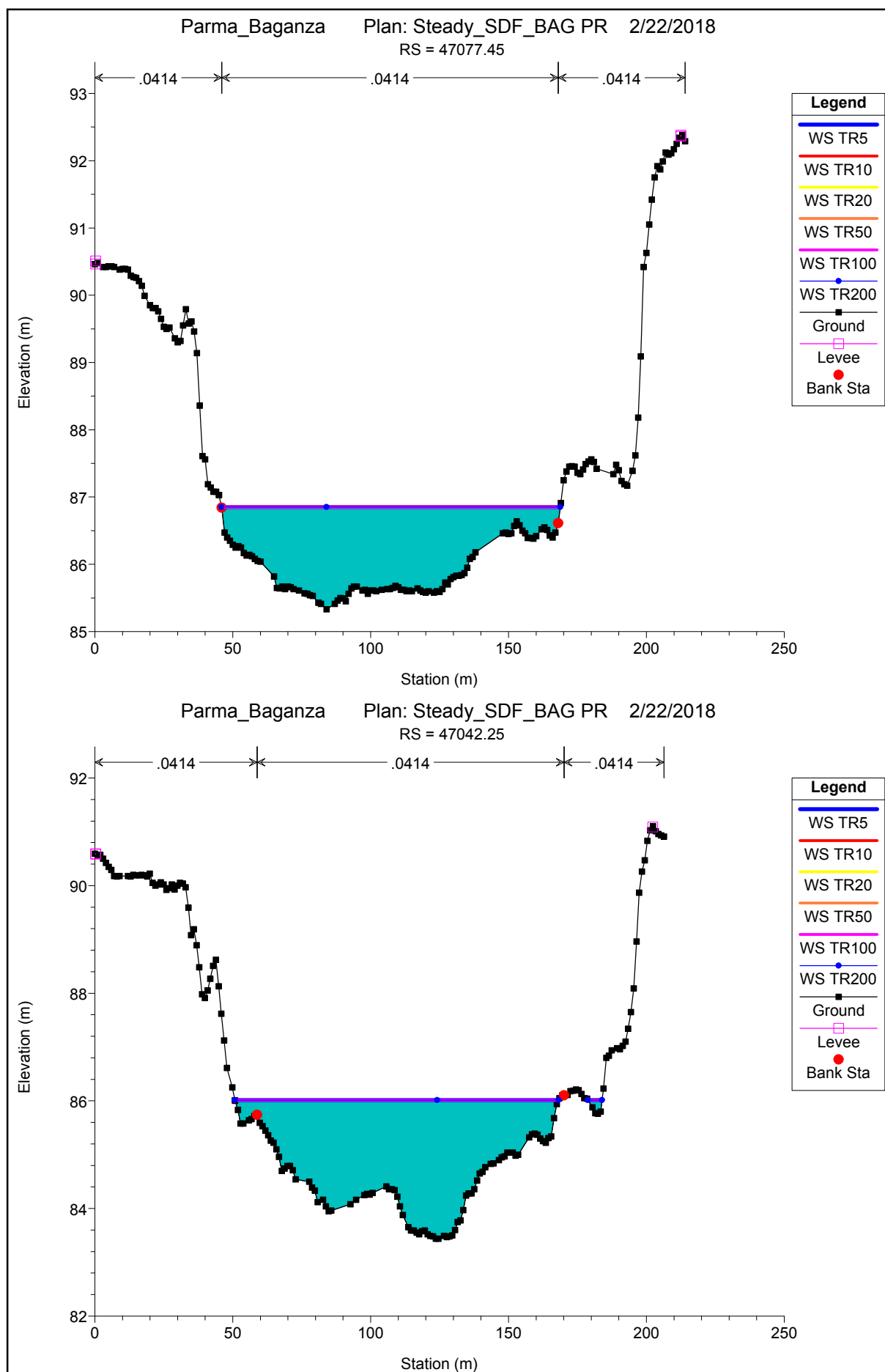
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	1260.633	TR20	747.00	18.05	29.92	24.33	30.11	0.001505	2.16	441.80	84.35	0.22
Valle	1260.633	TR50	892.00	18.05	30.49	24.93	30.71	0.001622	2.33	490.80	85.62	0.23
Valle	1260.633	TR100	1026.00	18.05	30.95	25.47	31.20	0.001736	2.48	530.64	86.60	0.24
Valle	1260.633	TR200	1185.00	18.05	31.46	26.13	31.73	0.001862	2.65	574.26	87.46	0.25
Valle	1053.629	TR5	577.00	18.45	28.76	23.35	28.94	0.001383	1.92	336.62	59.13	0.21
Valle	1053.629	TR10	656.00	18.45	29.17	23.69	29.37	0.001487	2.05	360.66	60.05	0.22
Valle	1053.629	TR20	747.00	18.45	29.55	24.02	29.78	0.001675	2.24	386.49	72.95	0.23
Valle	1053.629	TR50	892.00	18.45	30.07	24.51	30.35	0.001886	2.46	425.06	73.71	0.25
Valle	1053.629	TR100	1026.00	18.45	30.49	24.95	30.81	0.002089	2.66	455.67	74.39	0.27
Valle	1053.629	TR200	1185.00	18.45	30.93	25.47	31.30	0.002321	2.89	488.94	75.29	0.28
Valle	828.280	TR5	577.00	17.44	28.21	23.75	28.51	0.002743	2.67	271.15	58.35	0.28
Valle	828.280	TR10	656.00	17.44	28.58	24.21	28.91	0.002918	2.83	292.76	59.51	0.29
Valle	828.280	TR20	747.00	17.44	28.89	24.83	29.27	0.003259	3.05	311.30	61.64	0.31
Valle	828.280	TR50	892.00	17.44	29.31	25.64	29.77	0.003779	3.38	346.58	69.07	0.34
Valle	828.280	TR100	1026.00	17.44	29.63	26.18	30.15	0.004262	3.66	368.60	69.67	0.36
Valle	828.280	TR200	1185.00	17.44	29.96	26.74	30.57	0.004848	3.99	391.55	70.24	0.38
Valle	574.887	TR5	577.00	17.46	27.55	23.40	27.83	0.002671	2.47	316.53	177.44	0.28
Valle	574.887	TR10	656.00	17.46	27.96	23.77	28.22	0.002530	2.48	392.31	188.37	0.28
Valle	574.887	TR20	747.00	17.46	28.36	24.21	28.58	0.002266	2.43	483.31	204.76	0.26
Valle	574.887	TR50	892.00	17.46	28.87	24.87	29.07	0.002071	2.41	588.29	206.27	0.25
Valle	574.887	TR100	1026.00	17.46	29.23	25.31	29.43	0.002036	2.45	663.24	206.77	0.25
Valle	574.887	TR200	1185.00	17.46	29.61	25.99	29.81	0.002037	2.51	741.04	207.70	0.25
Valle	396.175	TR5	577.00	17.82	26.92	23.33	27.28	0.003655	2.72	248.53	97.47	0.33
Valle	396.175	TR10	656.00	17.82	27.33	23.75	27.70	0.003615	2.81	302.02	170.24	0.33
Valle	396.175	TR20	747.00	17.82	27.77	24.14	28.11	0.003351	2.81	384.91	194.85	0.32
Valle	396.175	TR50	892.00	17.82	28.40	24.70	28.67	0.002713	2.66	516.06	203.70	0.29
Valle	396.175	TR100	1026.00	17.82	28.79	25.18	29.05	0.002590	2.68	595.56	204.80	0.29
Valle	396.175	TR200	1185.00	17.82	29.18	25.77	29.43	0.002526	2.72	675.60	205.39	0.29
Valle	156.420	TR5	577.00	17.50	25.55	23.15	26.08	0.007211	3.26	184.04	41.17	0.44
Valle	156.420	TR10	656.00	17.50	25.88	23.50	26.48	0.007575	3.48	198.13	45.94	0.46
Valle	156.420	TR20	747.00	17.50	26.27	23.89	26.94	0.007770	3.68	217.11	50.28	0.47
Valle	156.420	TR50	892.00	17.50	26.91	24.46	27.65	0.007692	3.91	275.50	149.40	0.48
Valle	156.420	TR100	1026.00	17.50	27.47	24.94	28.11	0.006533	3.79	363.07	171.51	0.44
Valle	156.420	TR200	1185.00	17.50	27.96	25.46	28.55	0.005915	3.77	449.79	180.23	0.43
Valle	0.500	TR5	577.00	17.38	24.00	22.42	24.66	0.011819	3.60	162.67	41.67	0.56
Valle	0.500	TR10	656.00	17.38	24.00	22.76	24.85	0.015277	4.10	162.67	41.67	0.63
Valle	0.500	TR20	747.00	17.38	24.00	23.12	25.10	0.019809	4.66	162.67	41.67	0.72
Valle	0.500	TR50	892.00	17.38	24.00	23.61	25.57	0.028246	5.57	162.67	41.67	0.86
Valle	0.500	TR100	1026.00	17.38	24.05	24.05	26.08	0.036178	6.34	164.57	41.89	0.97
Valle	0.500	TR200	1185.00	17.38	24.54	24.54	26.68	0.033171	6.51	187.39	47.59	0.95

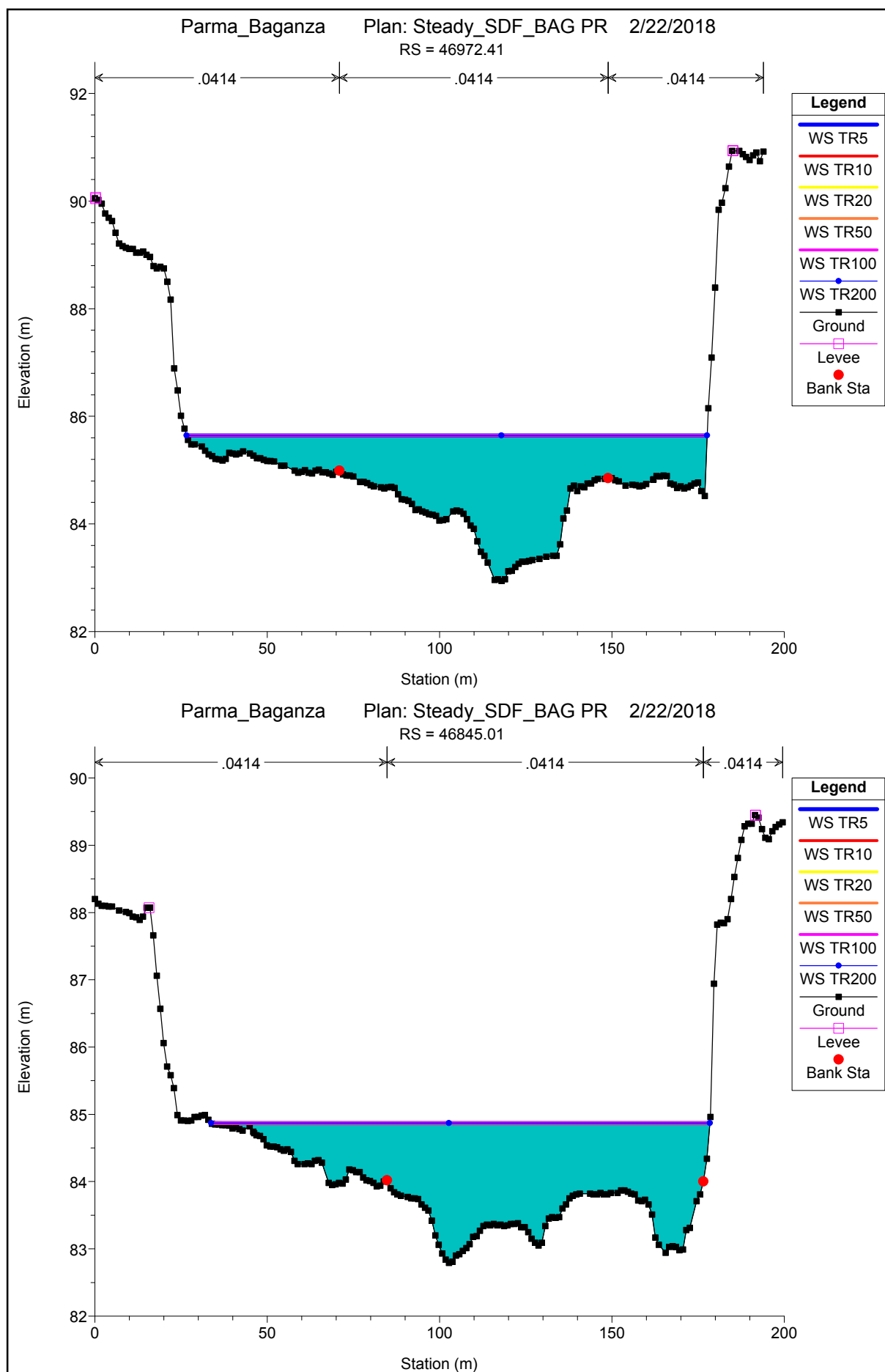




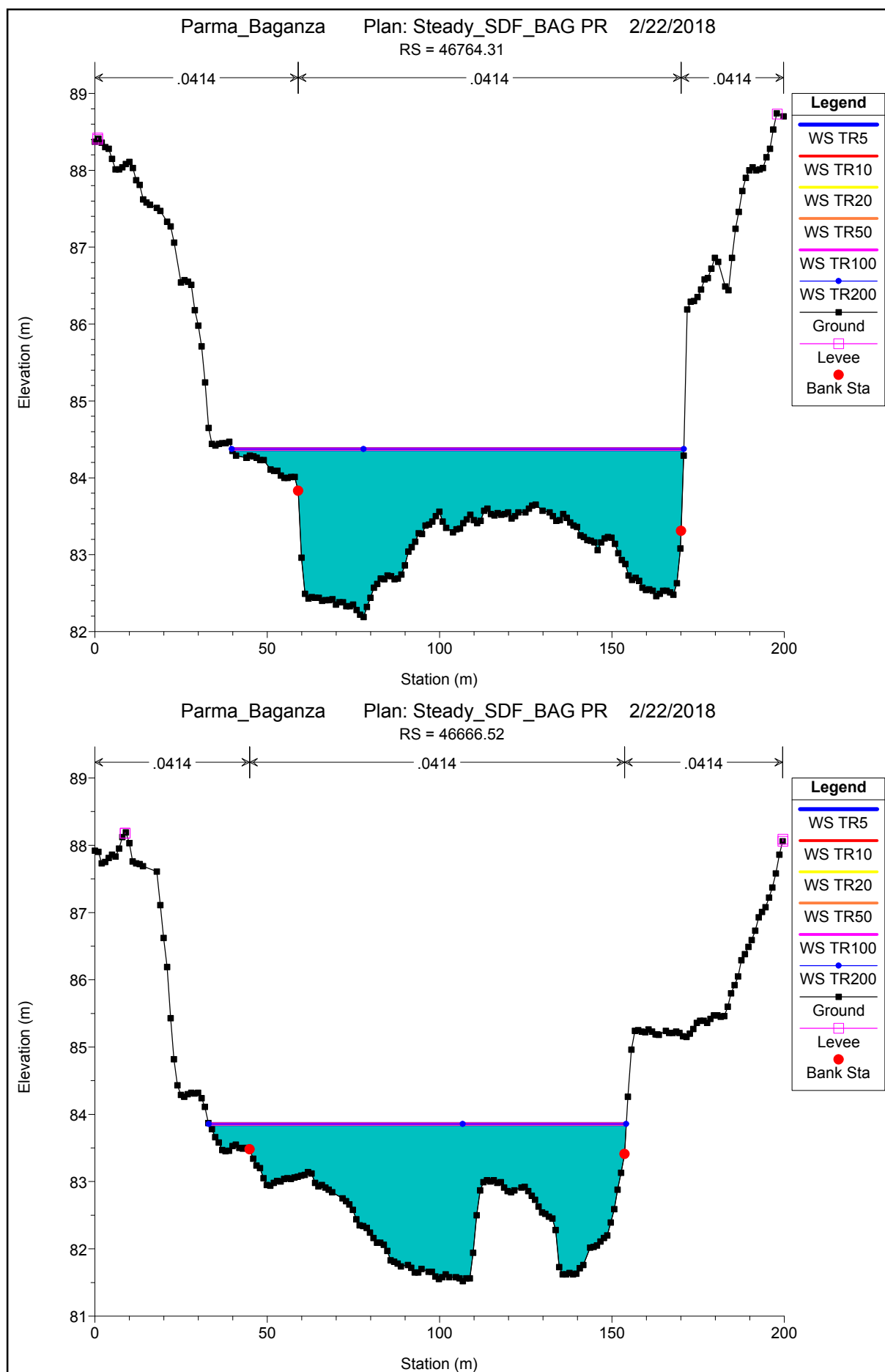


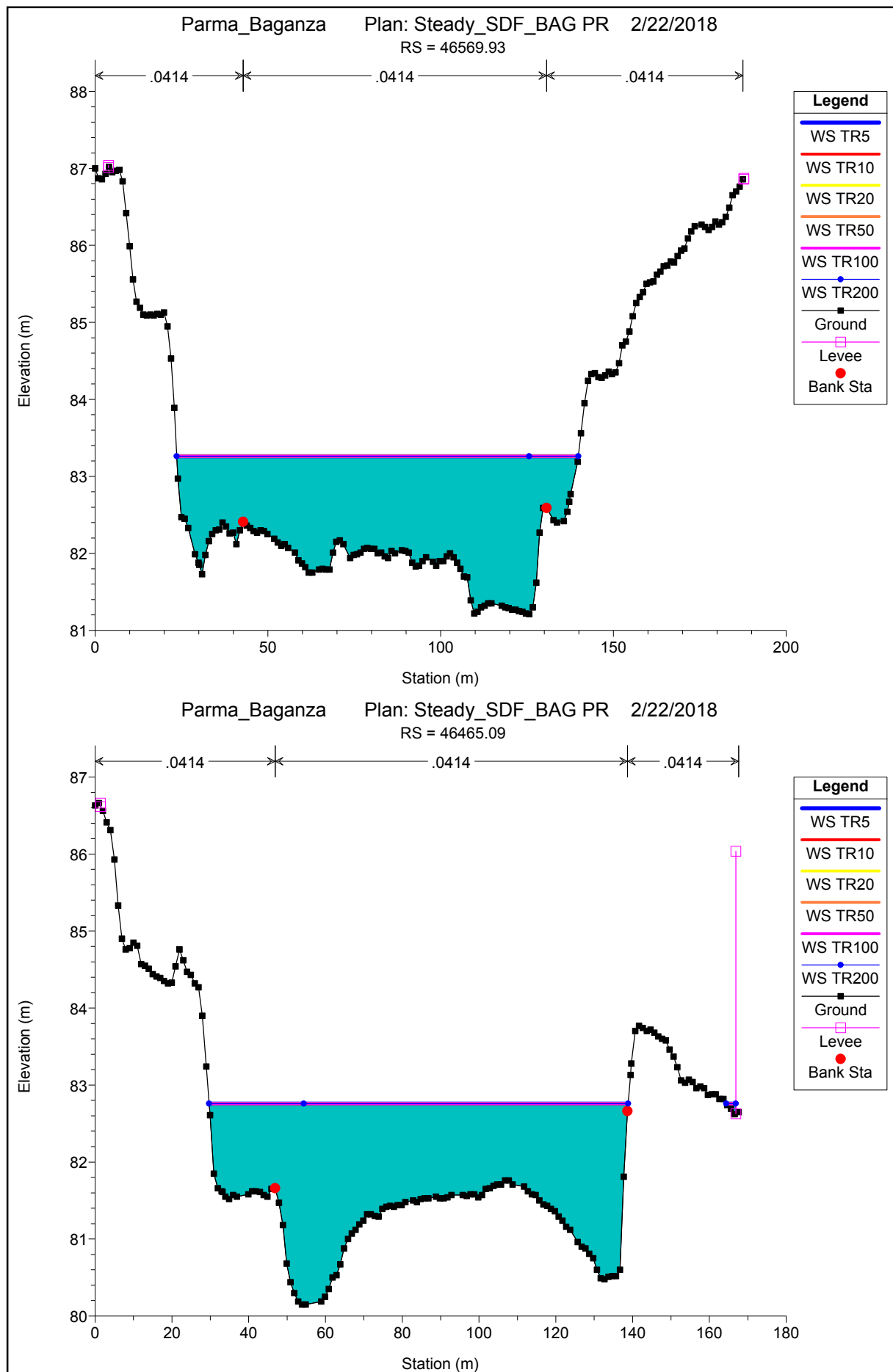


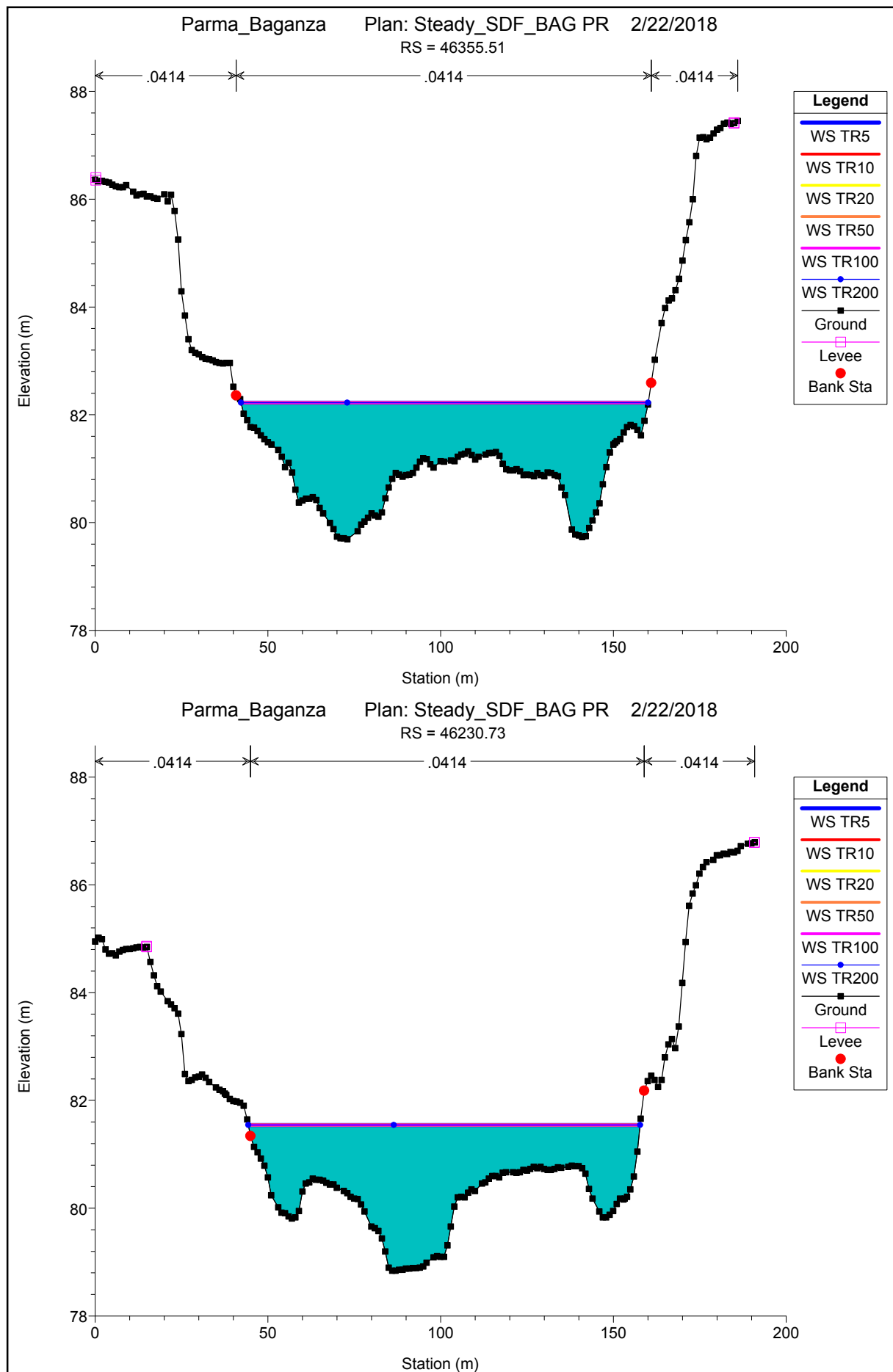


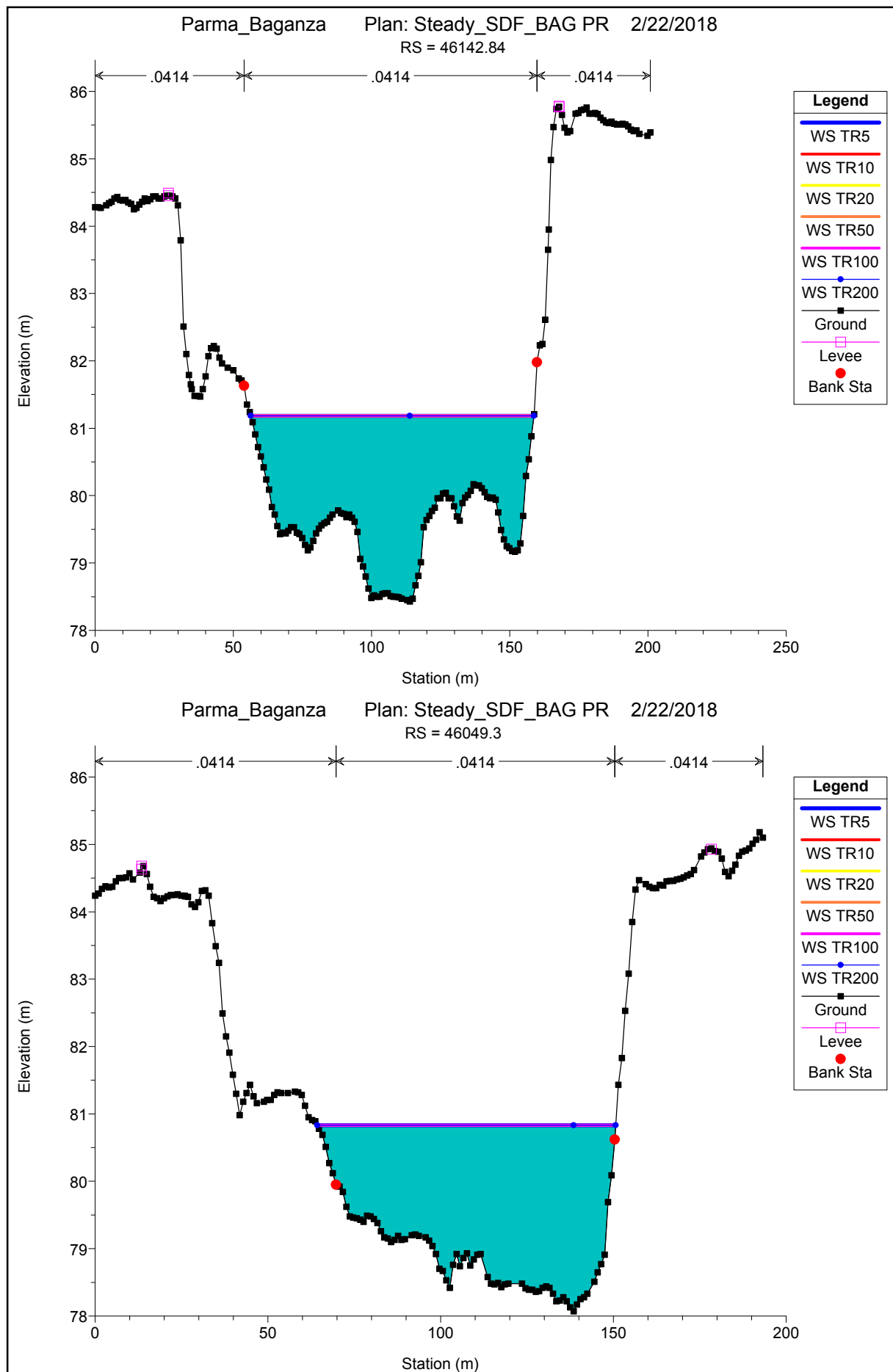


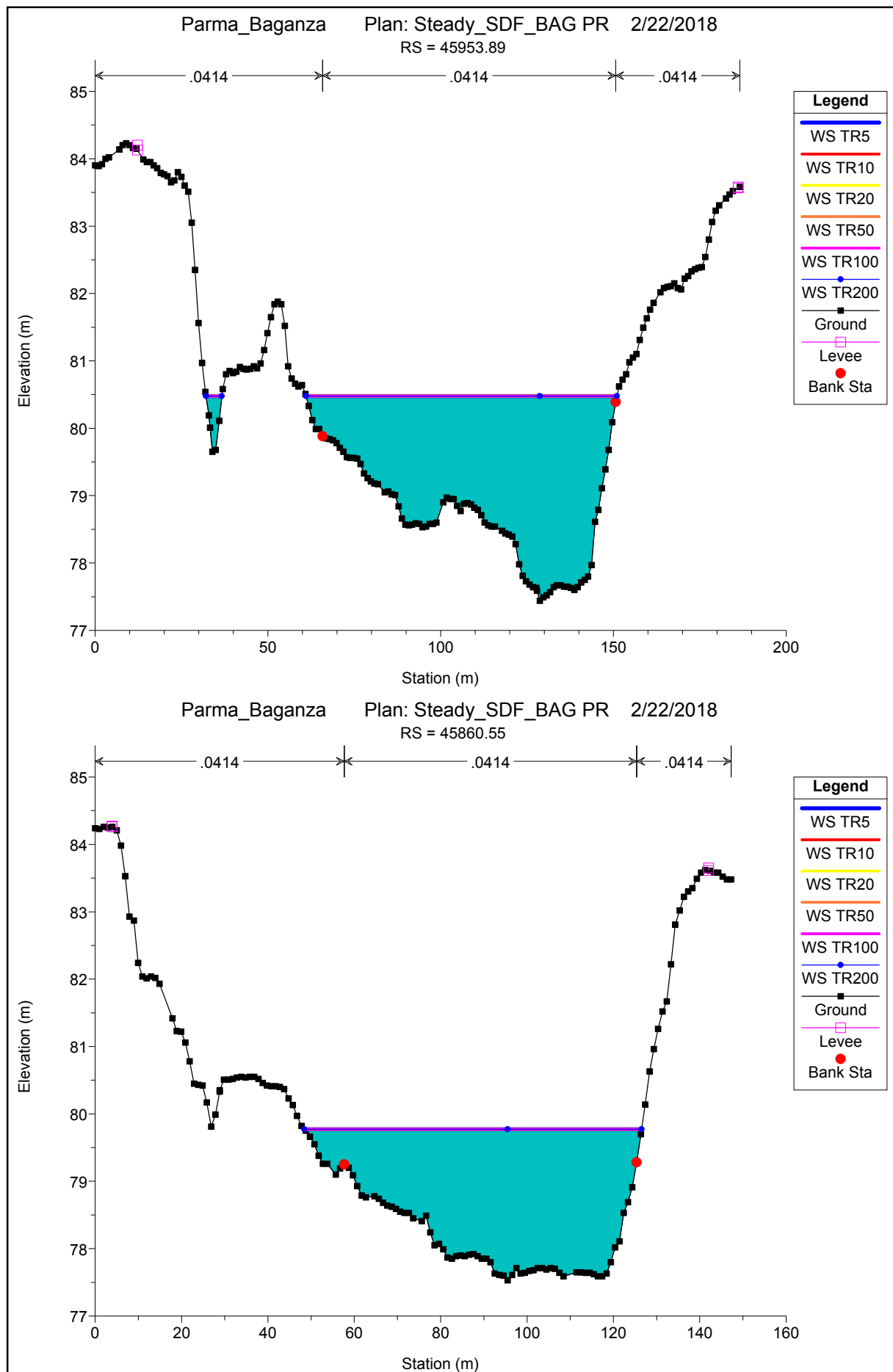


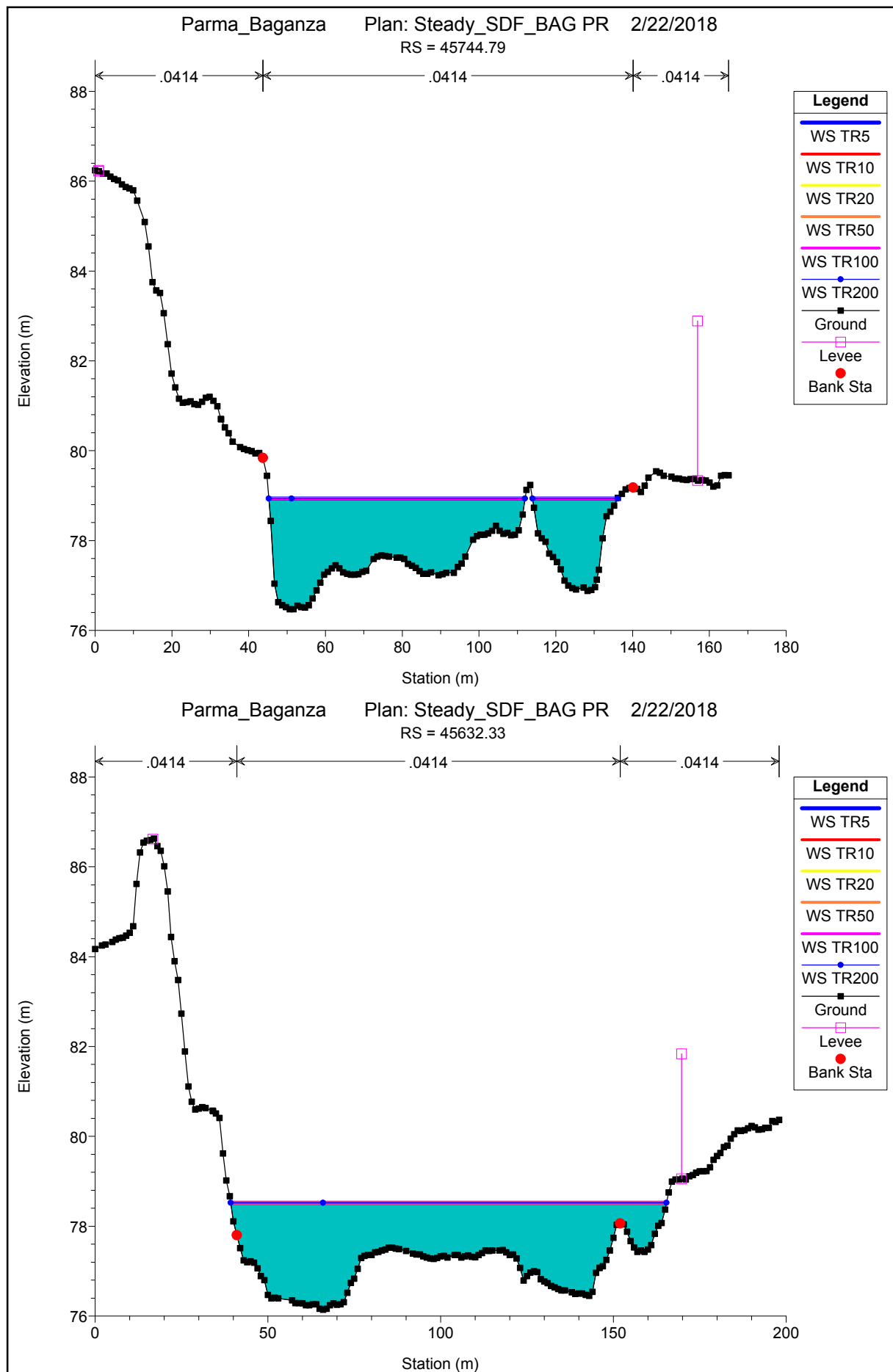


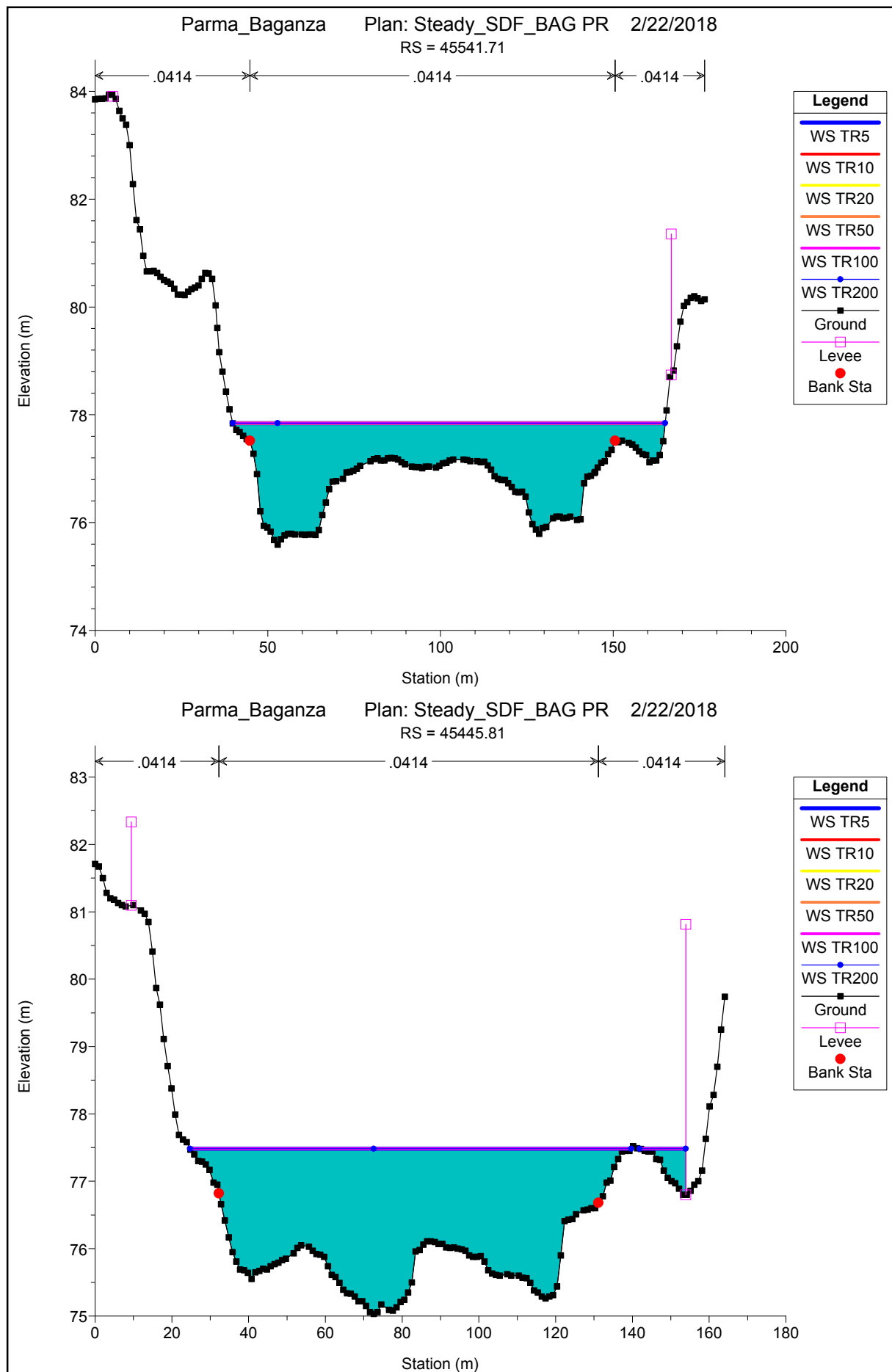


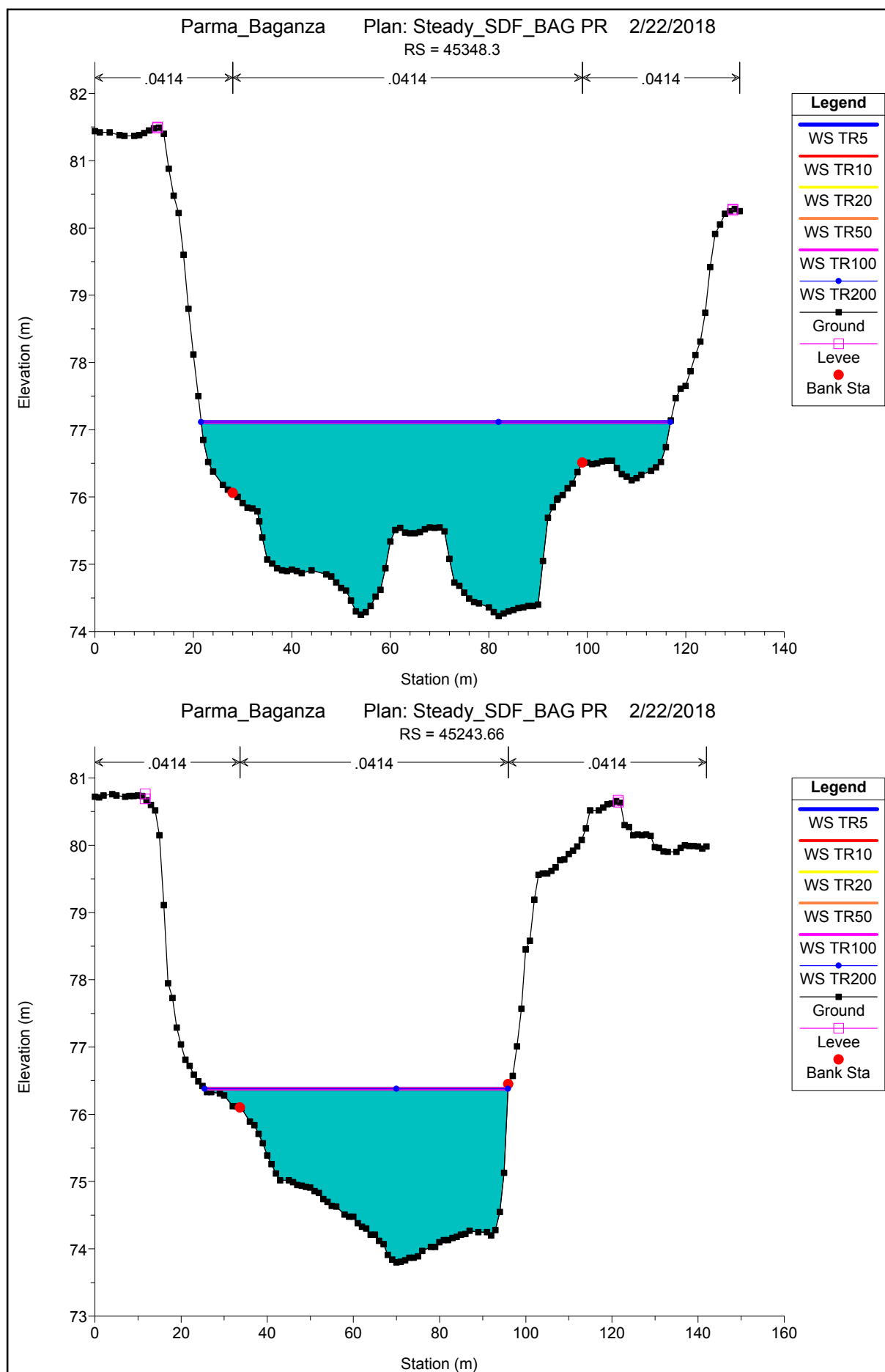




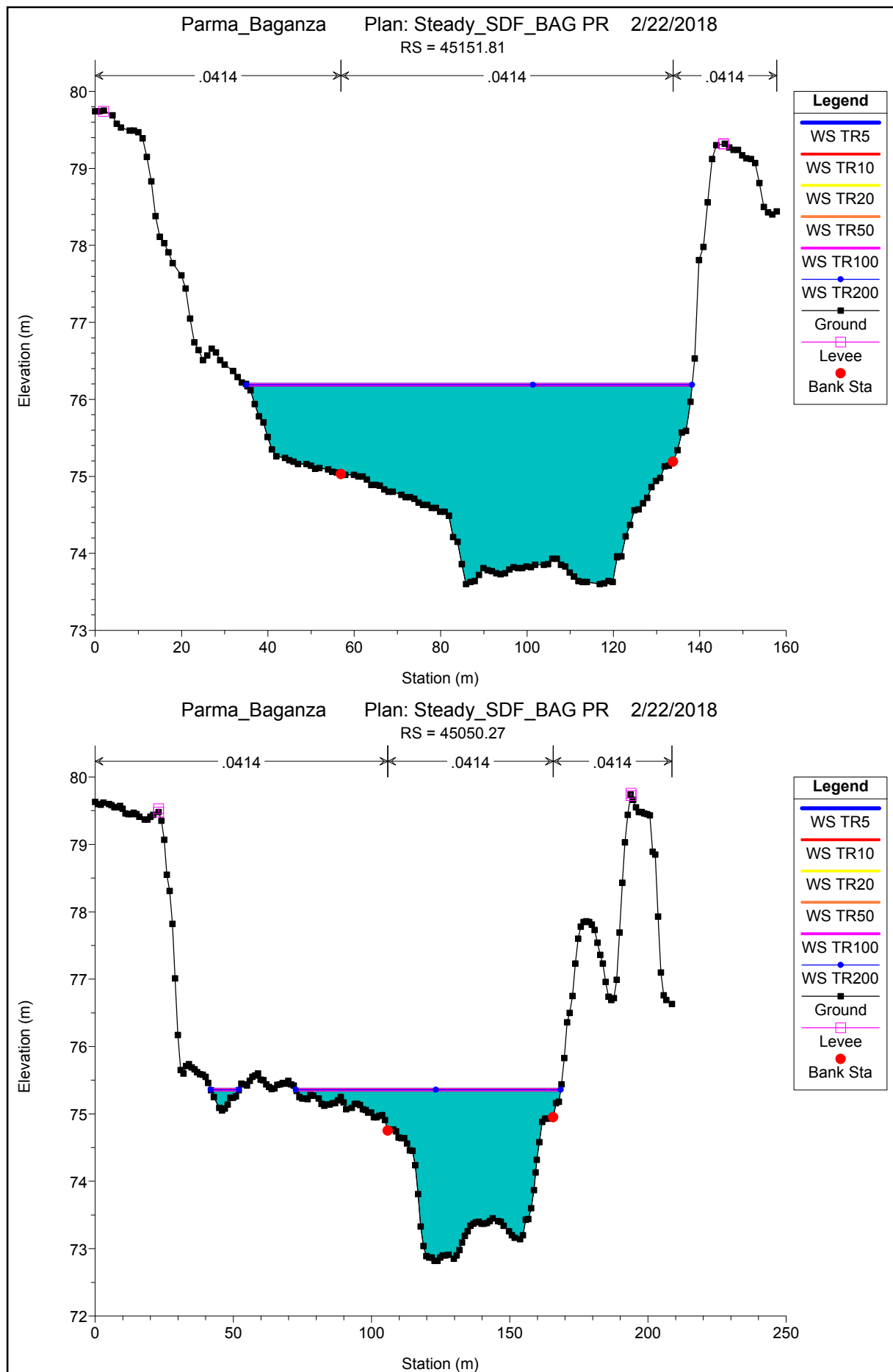




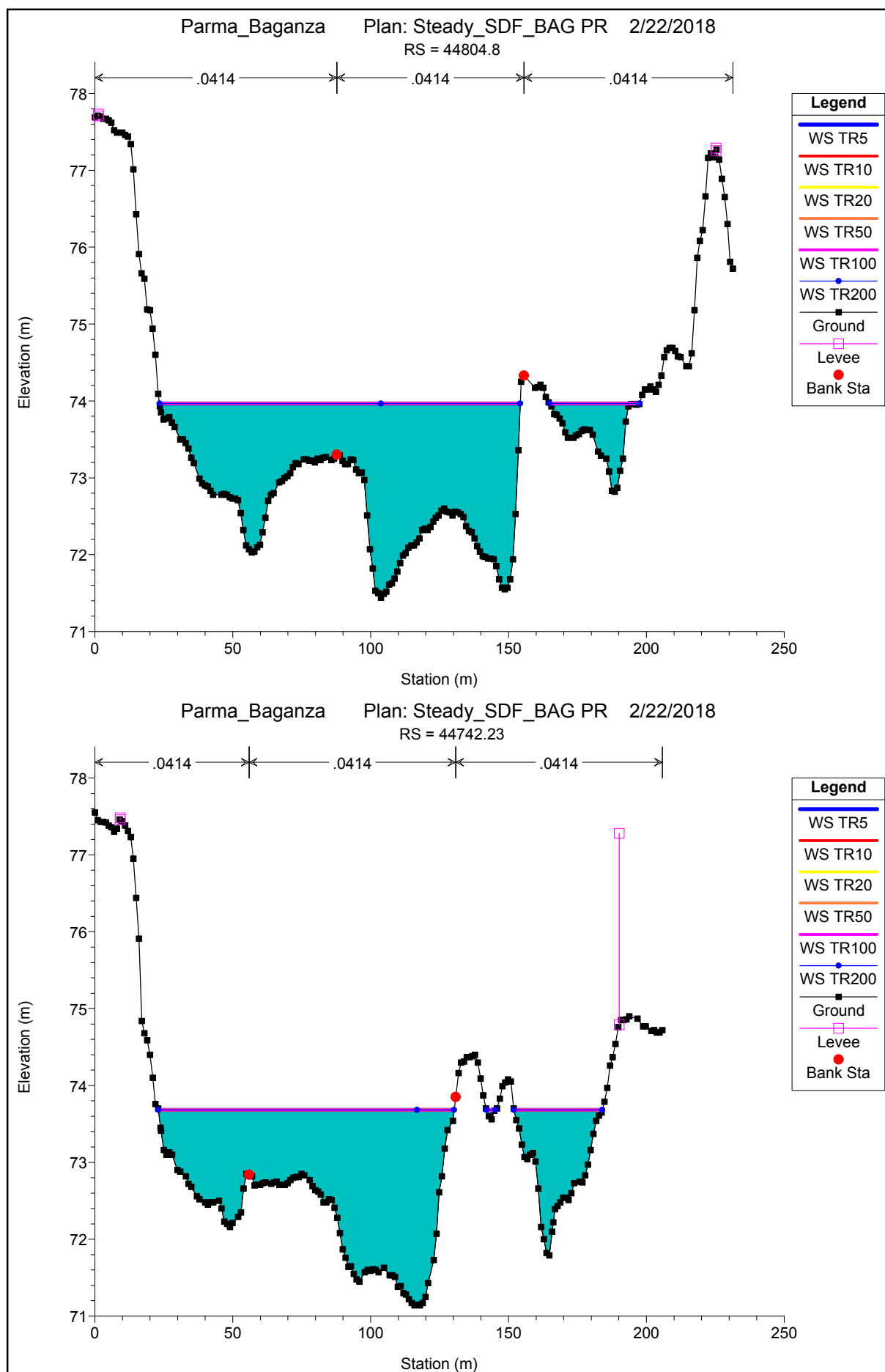


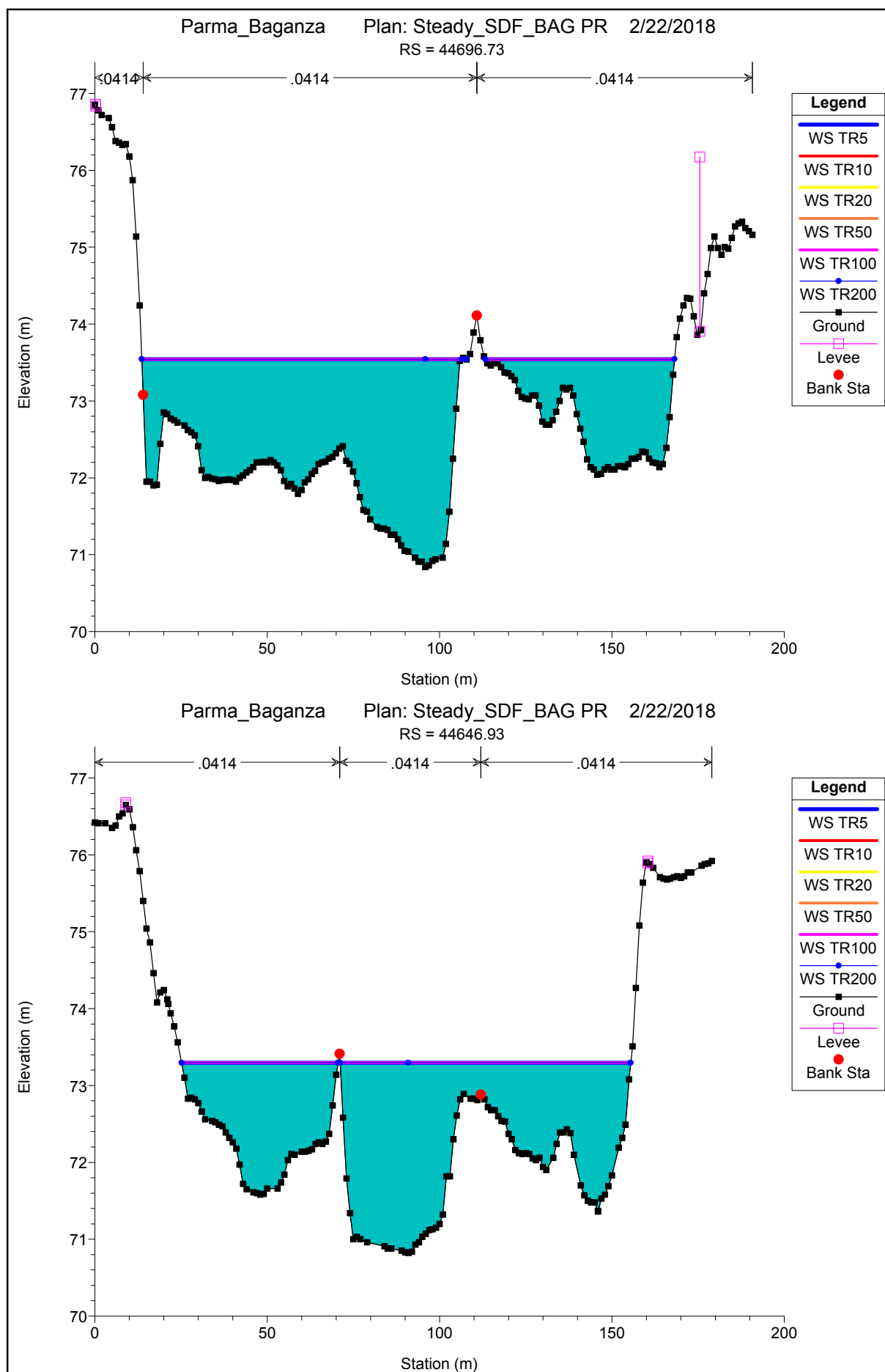


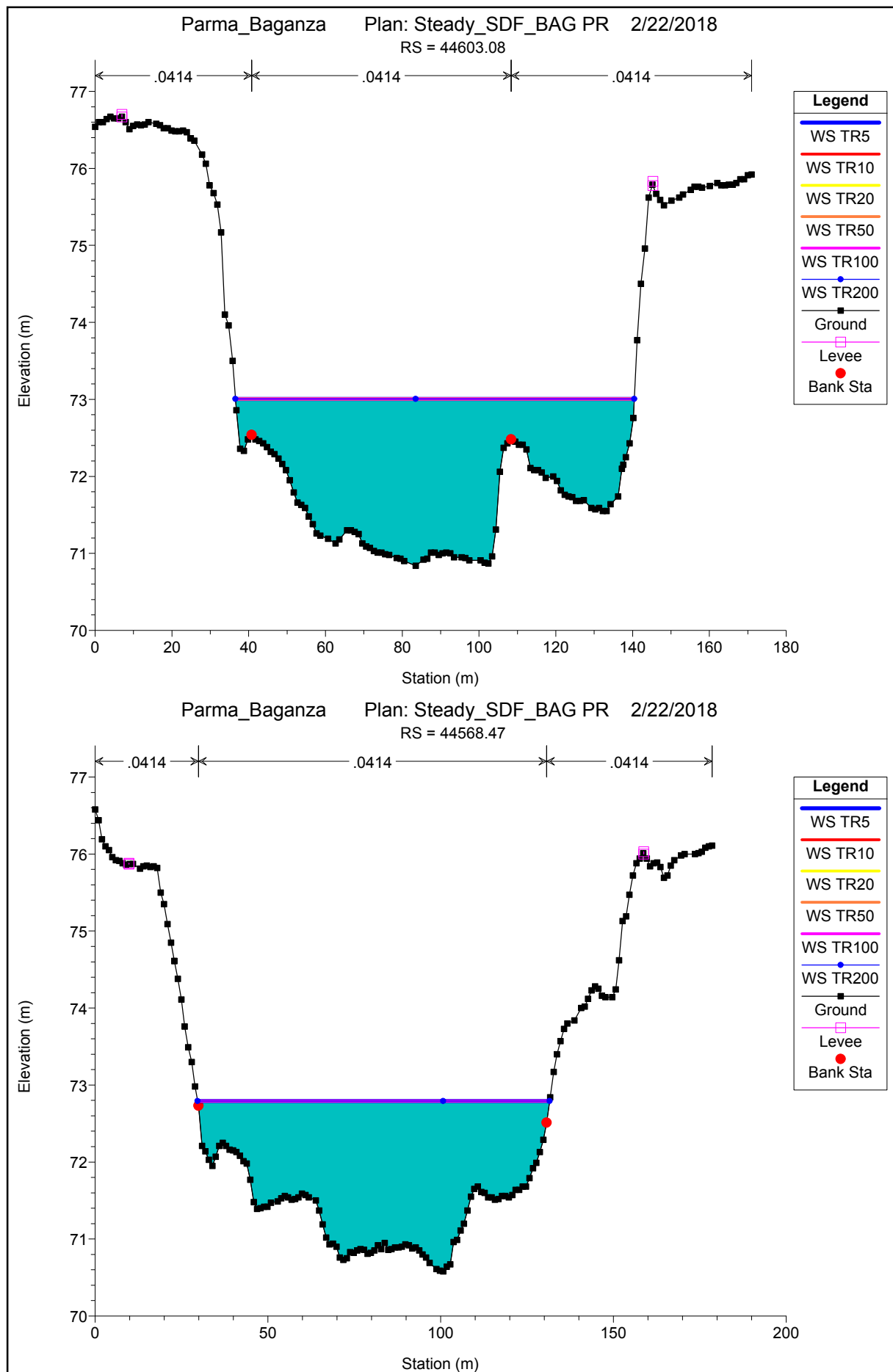


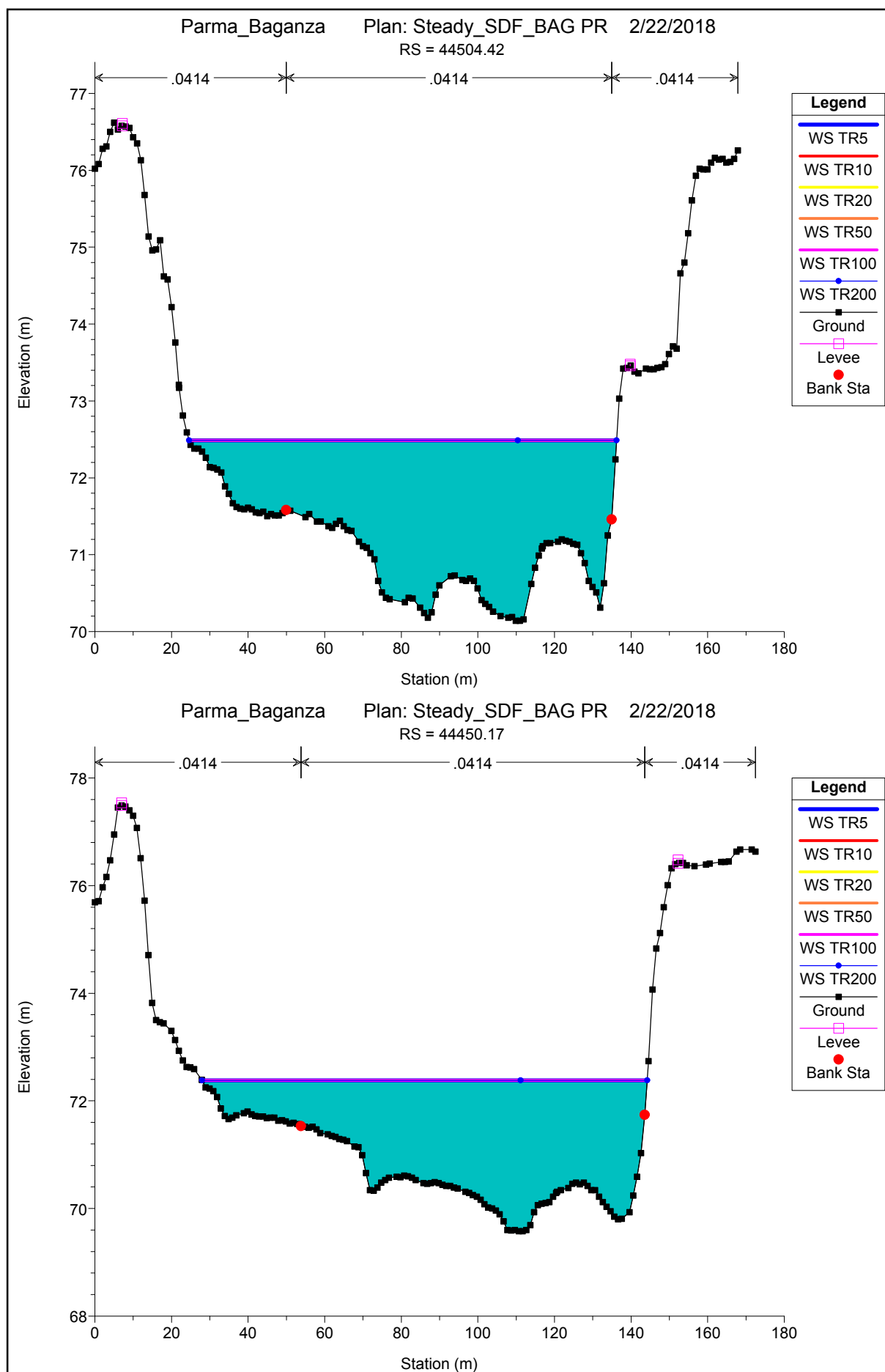


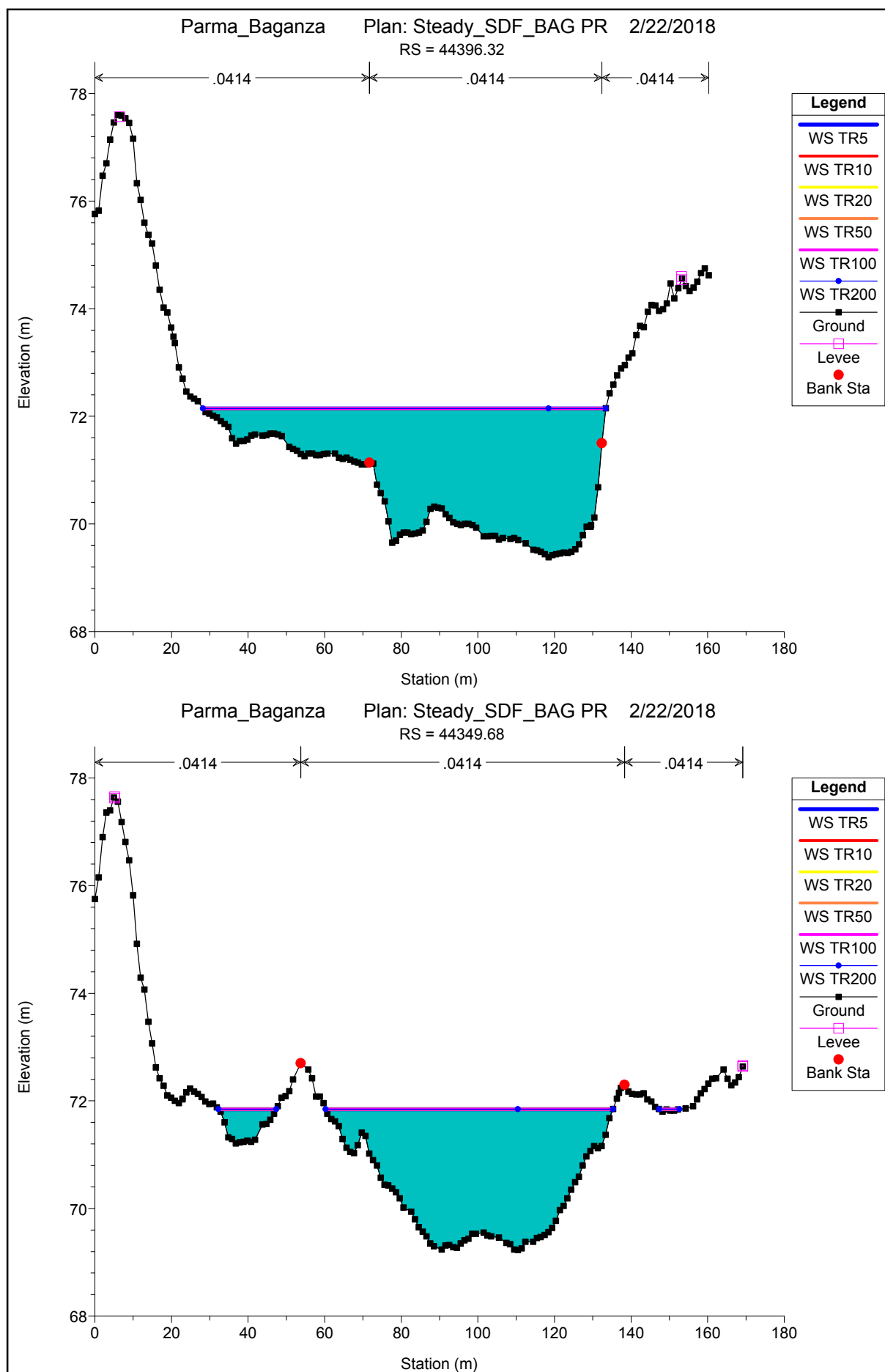


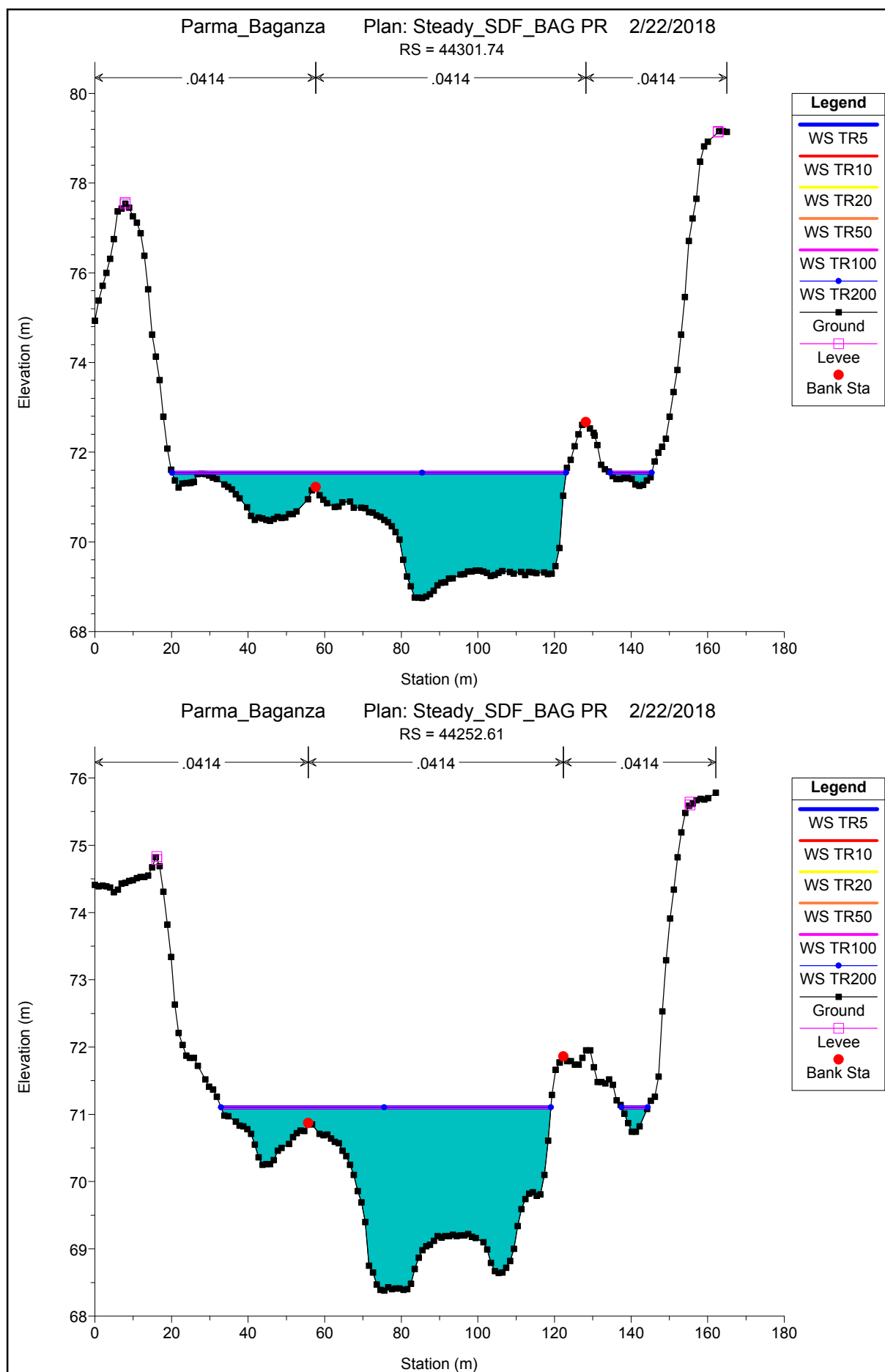




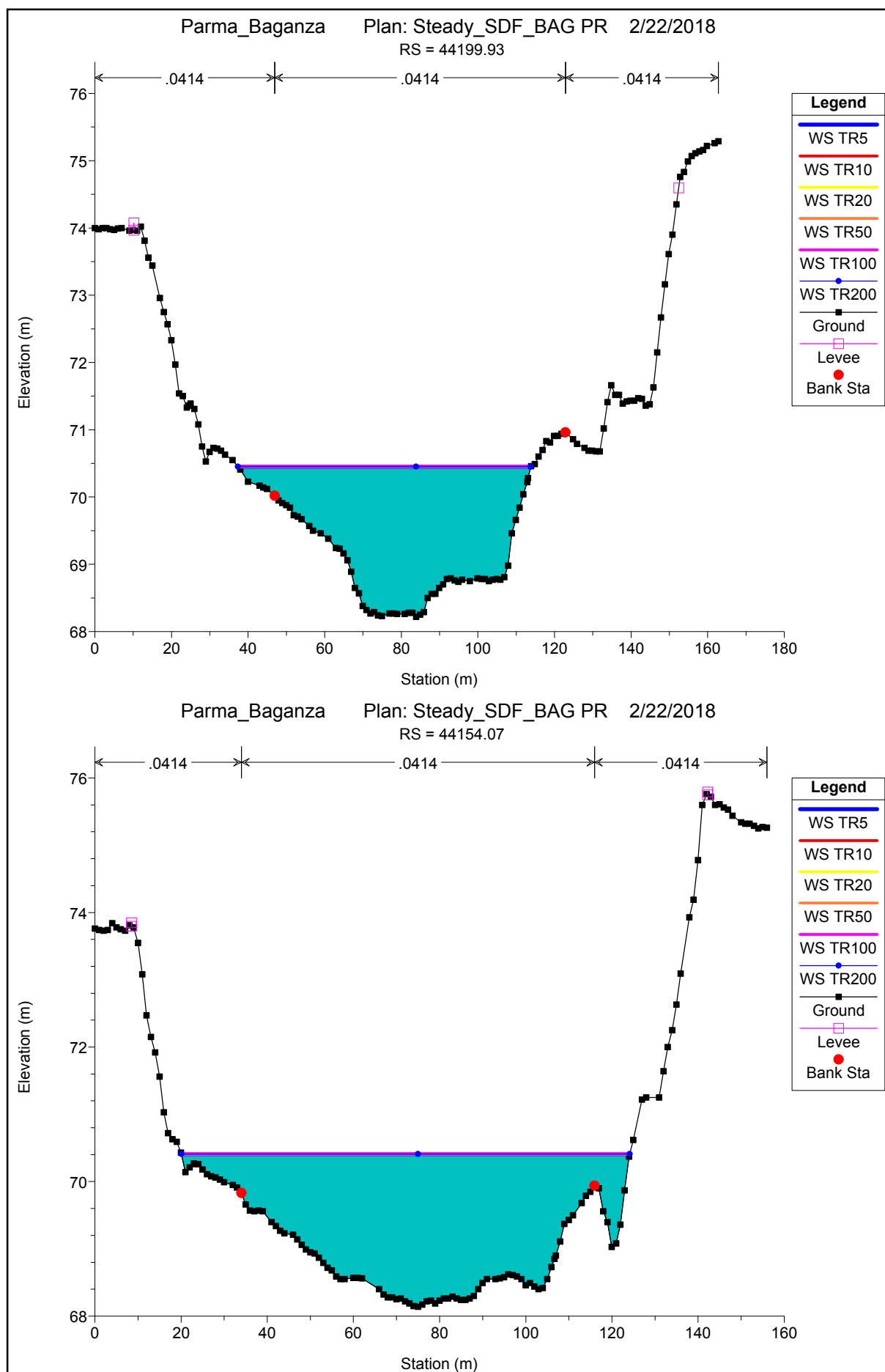


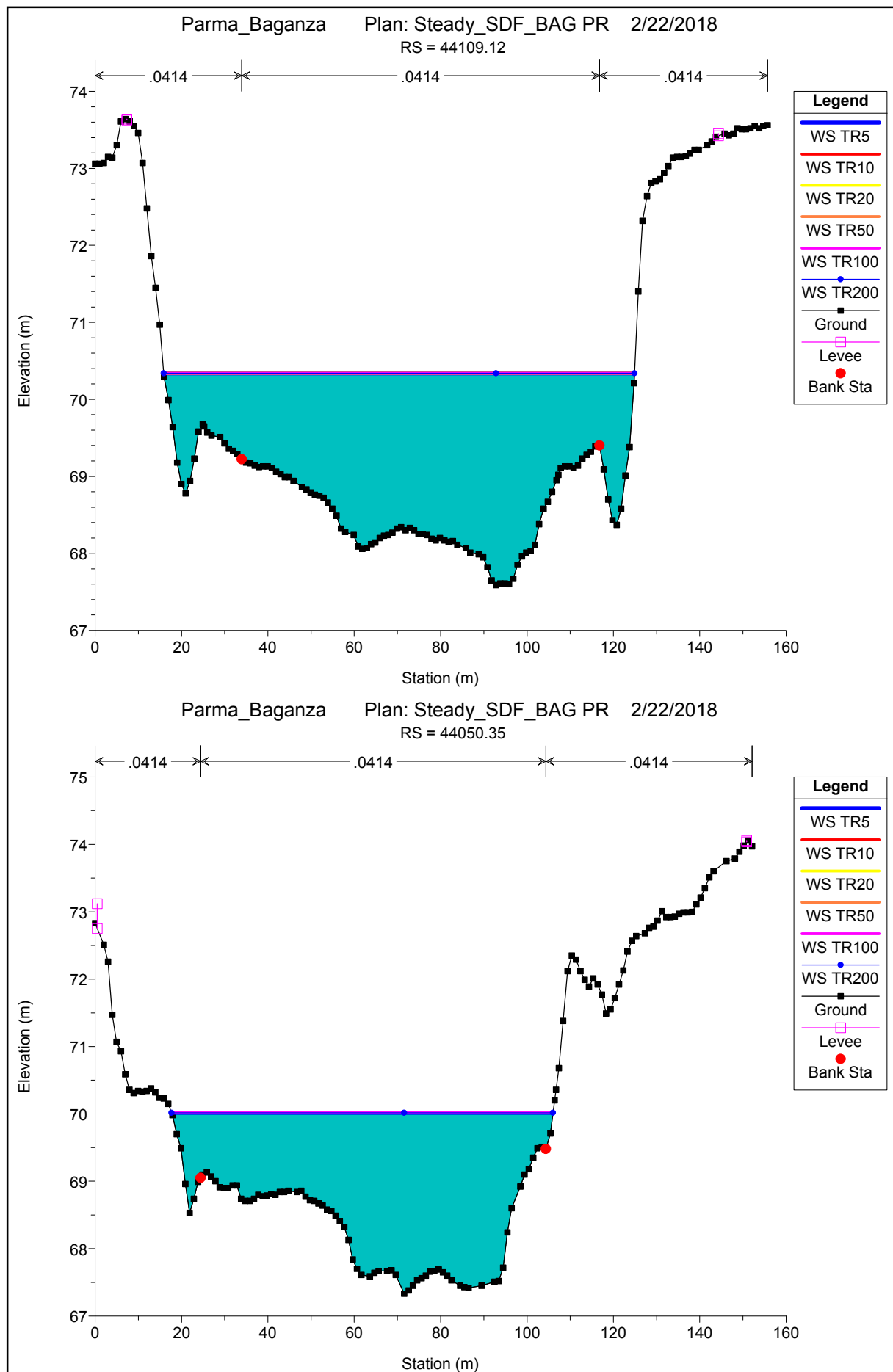


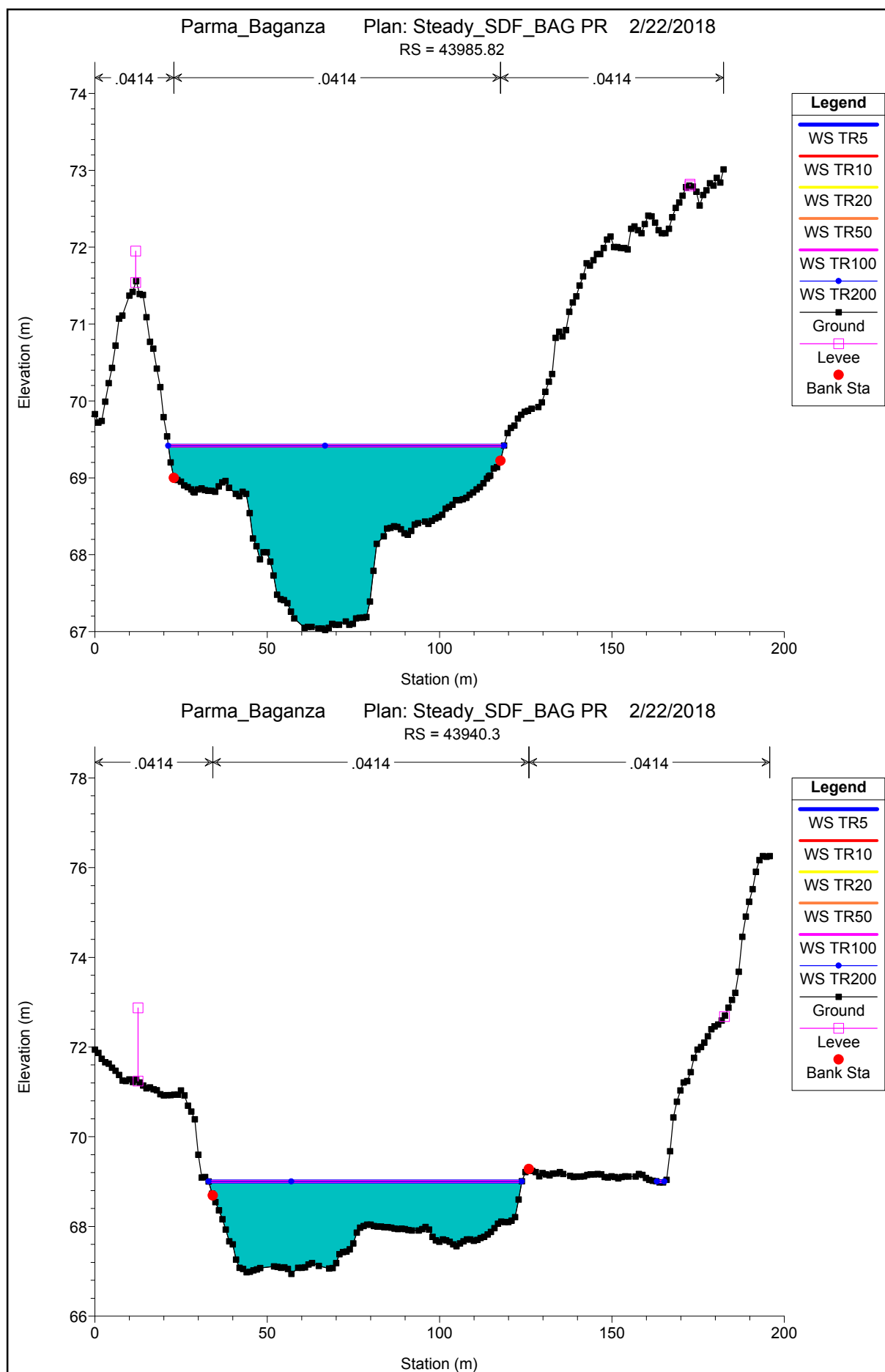


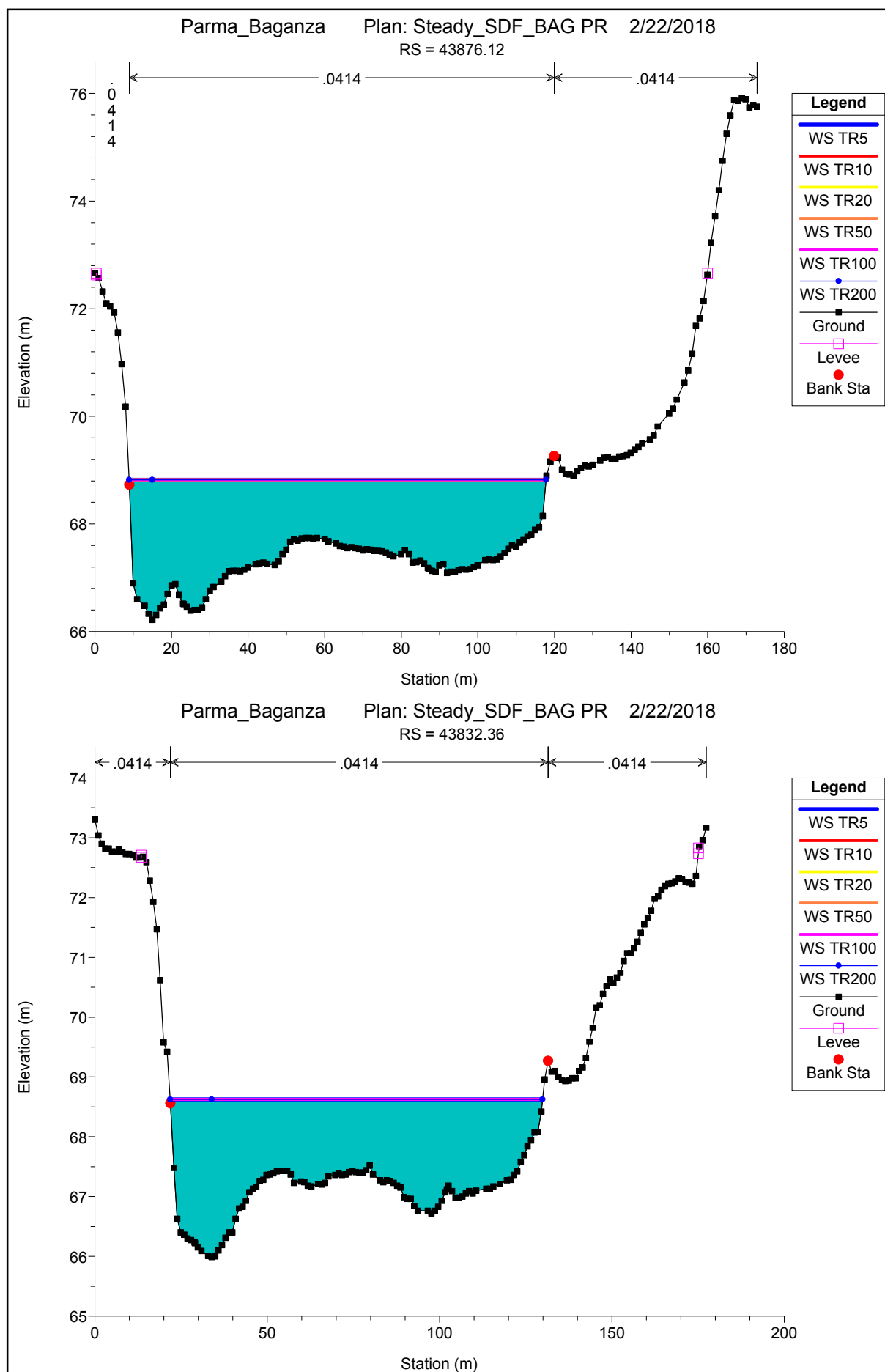


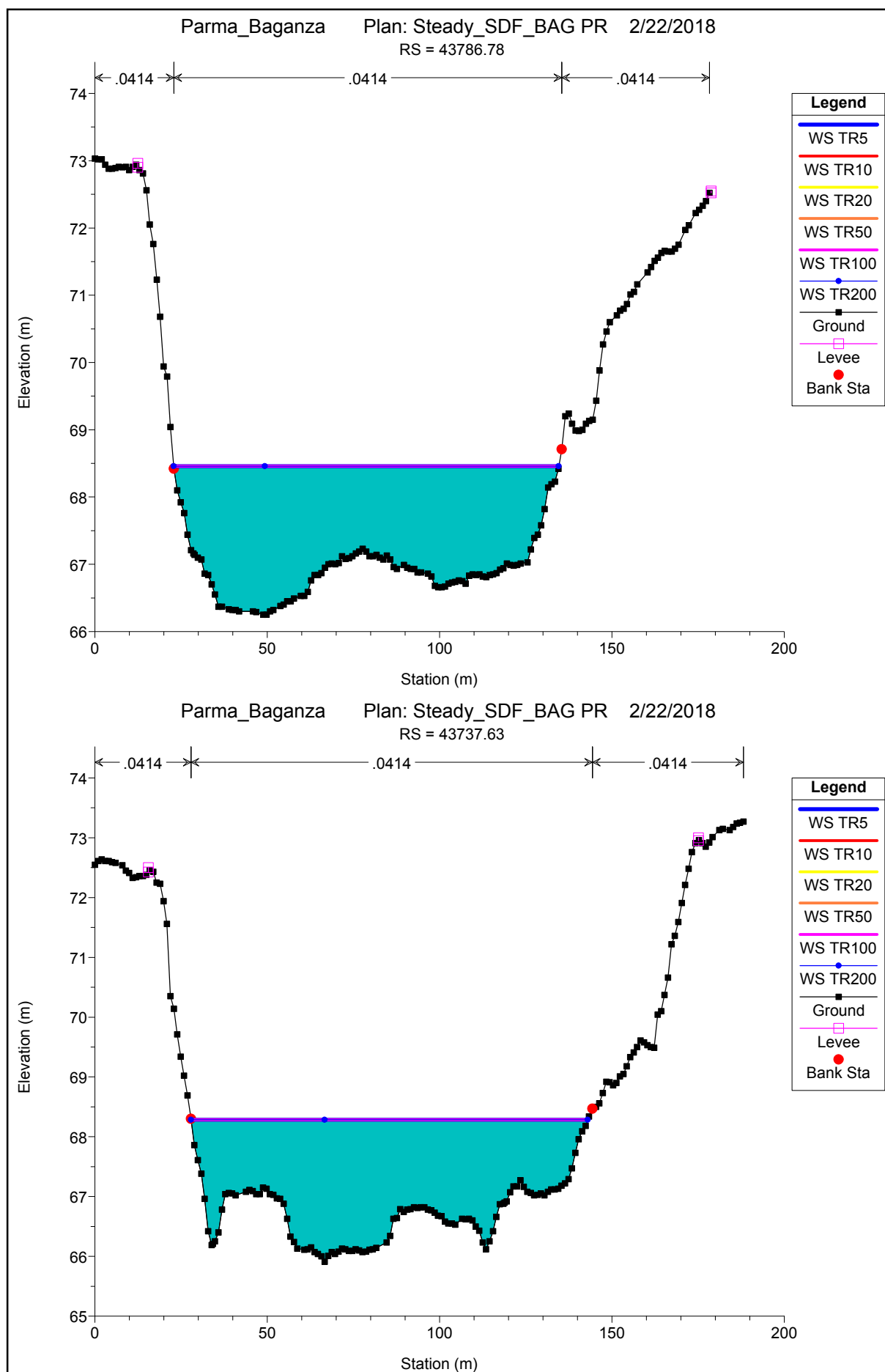


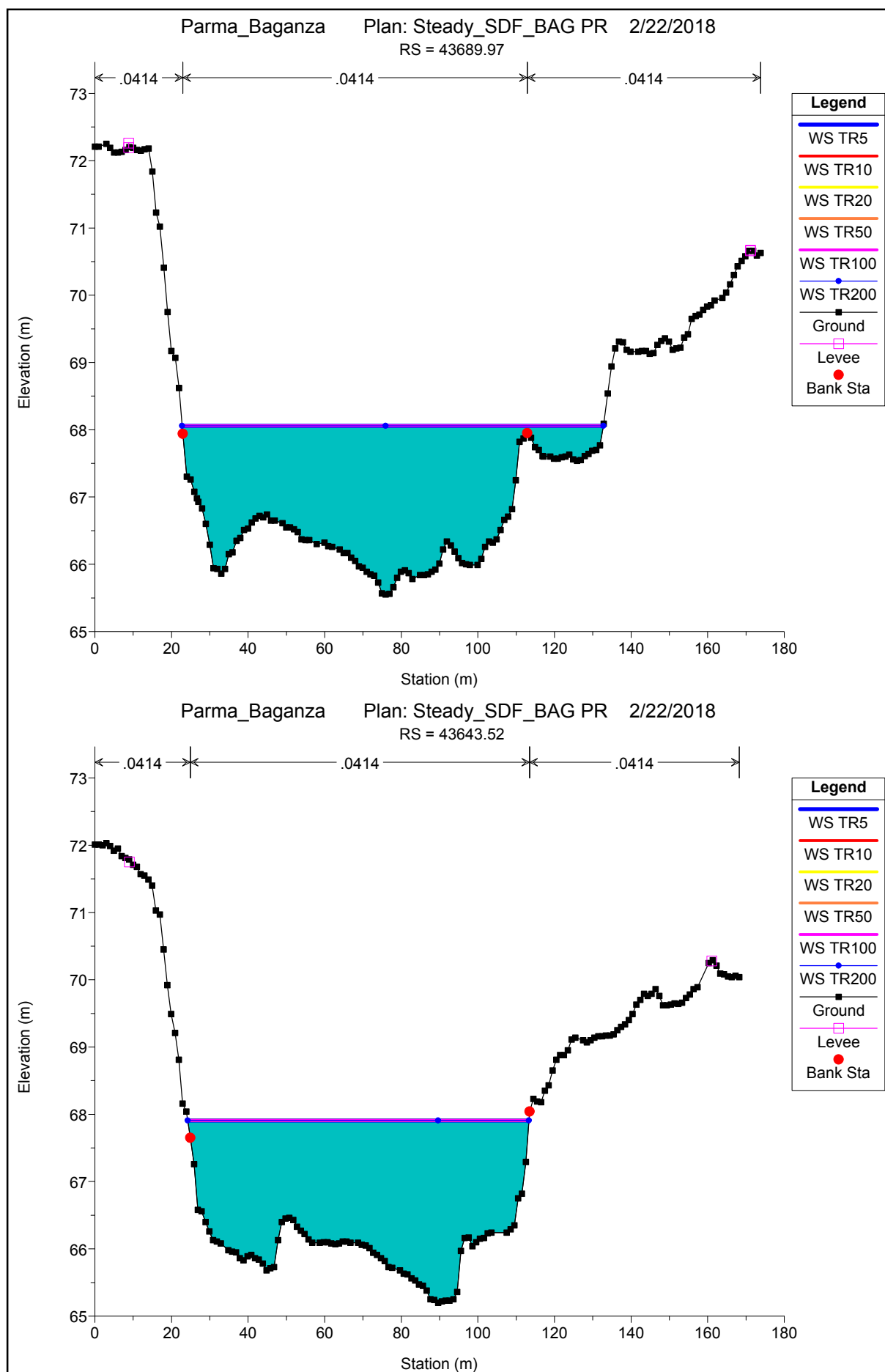


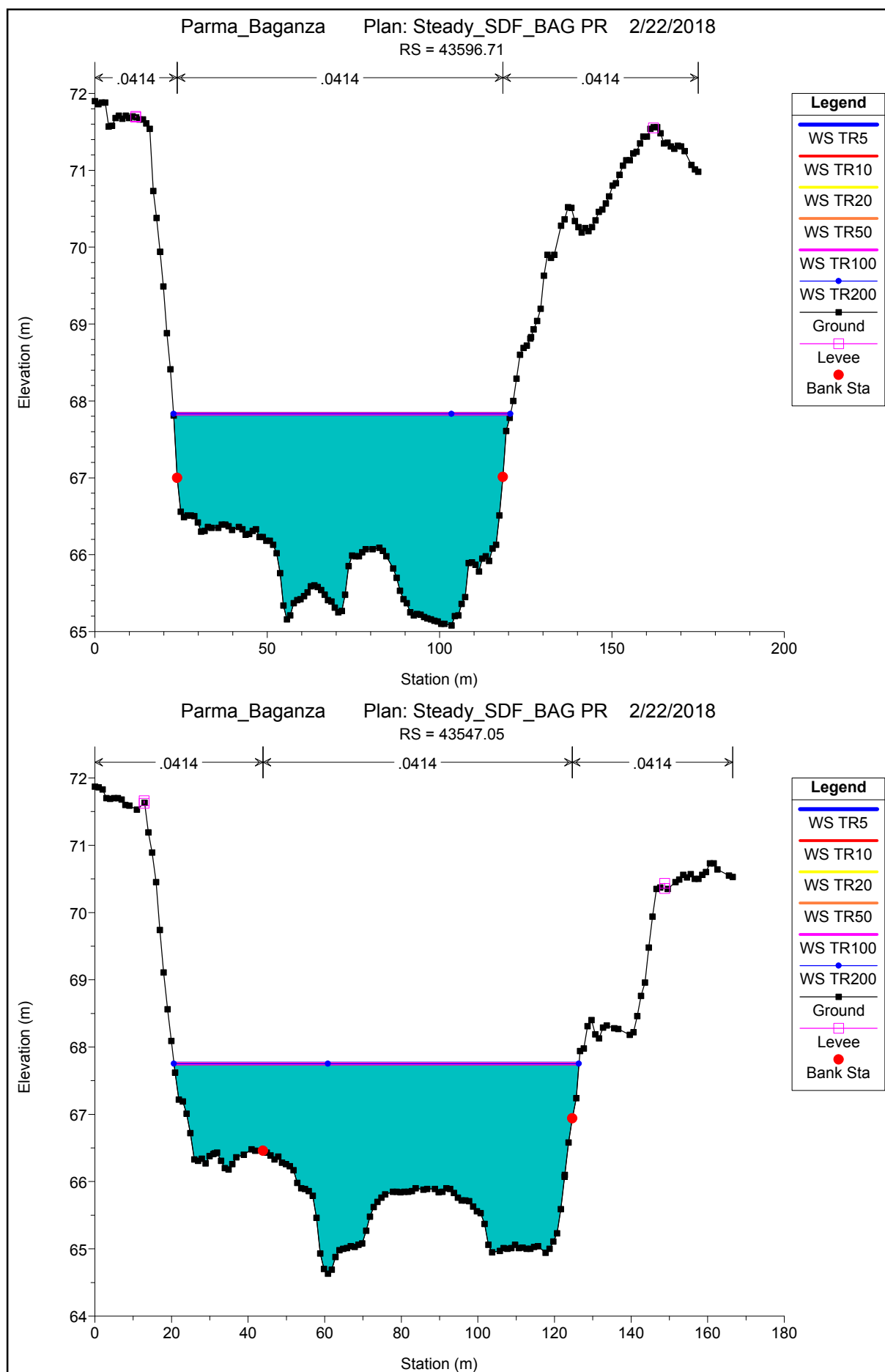


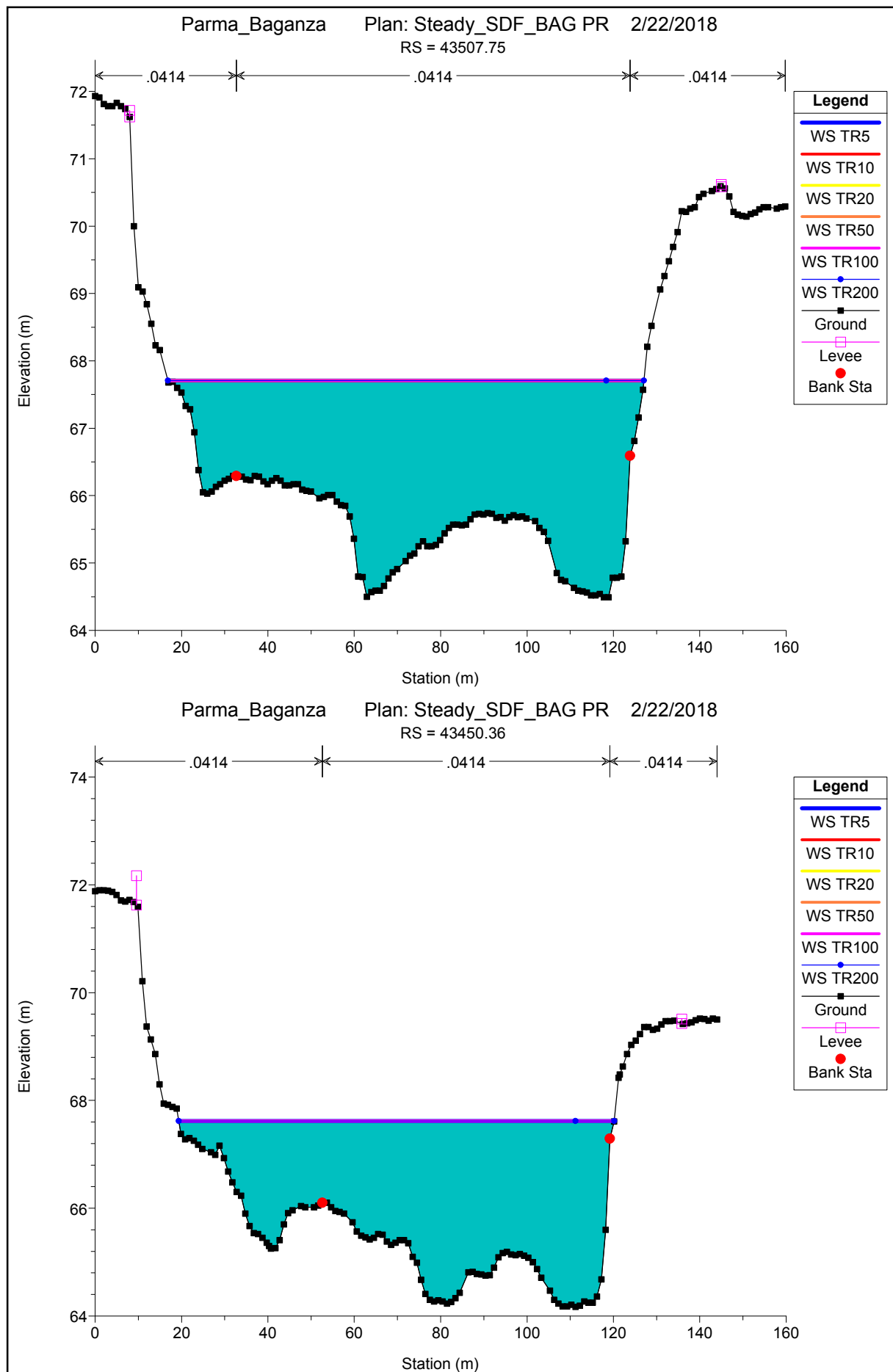




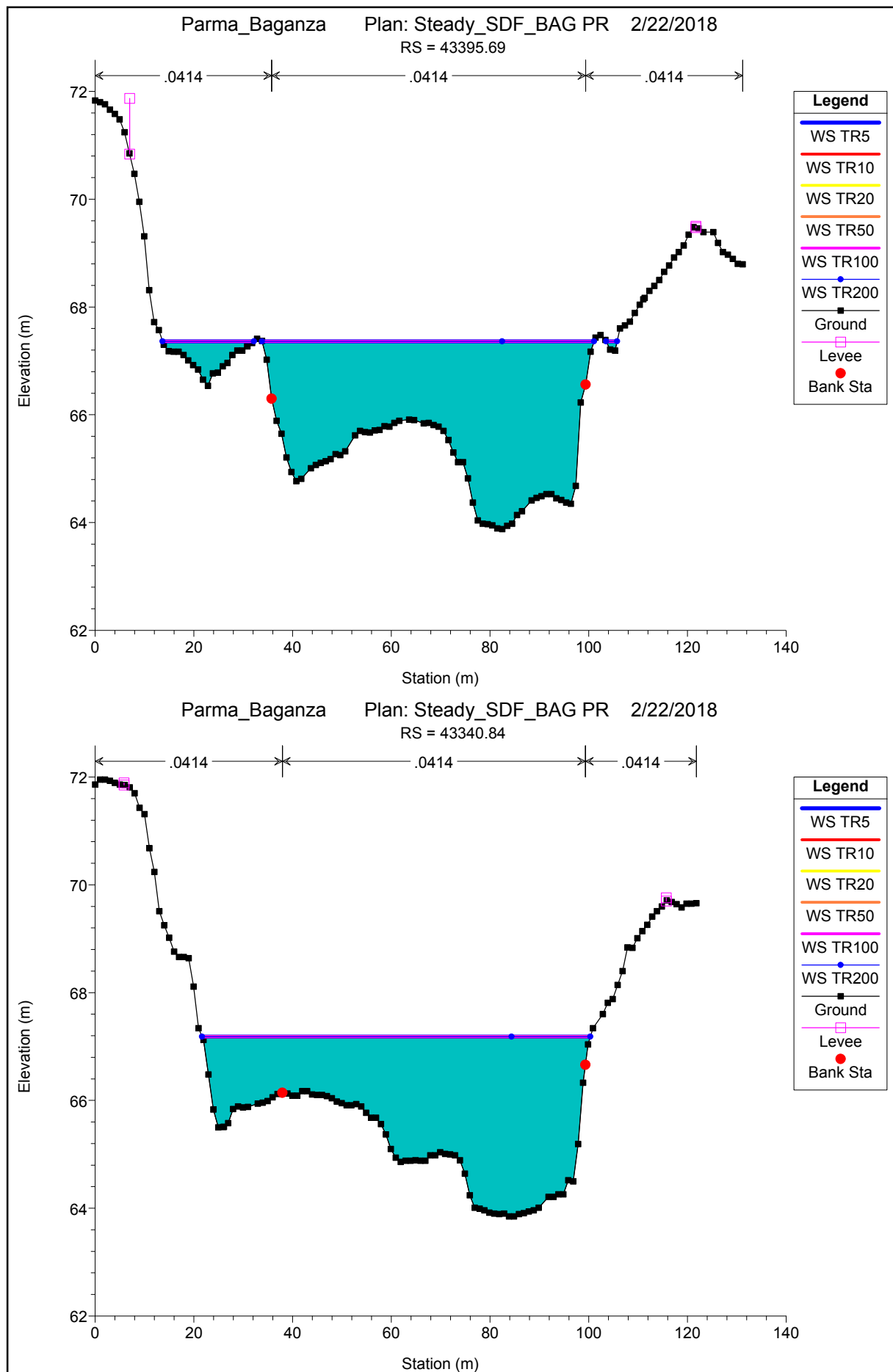


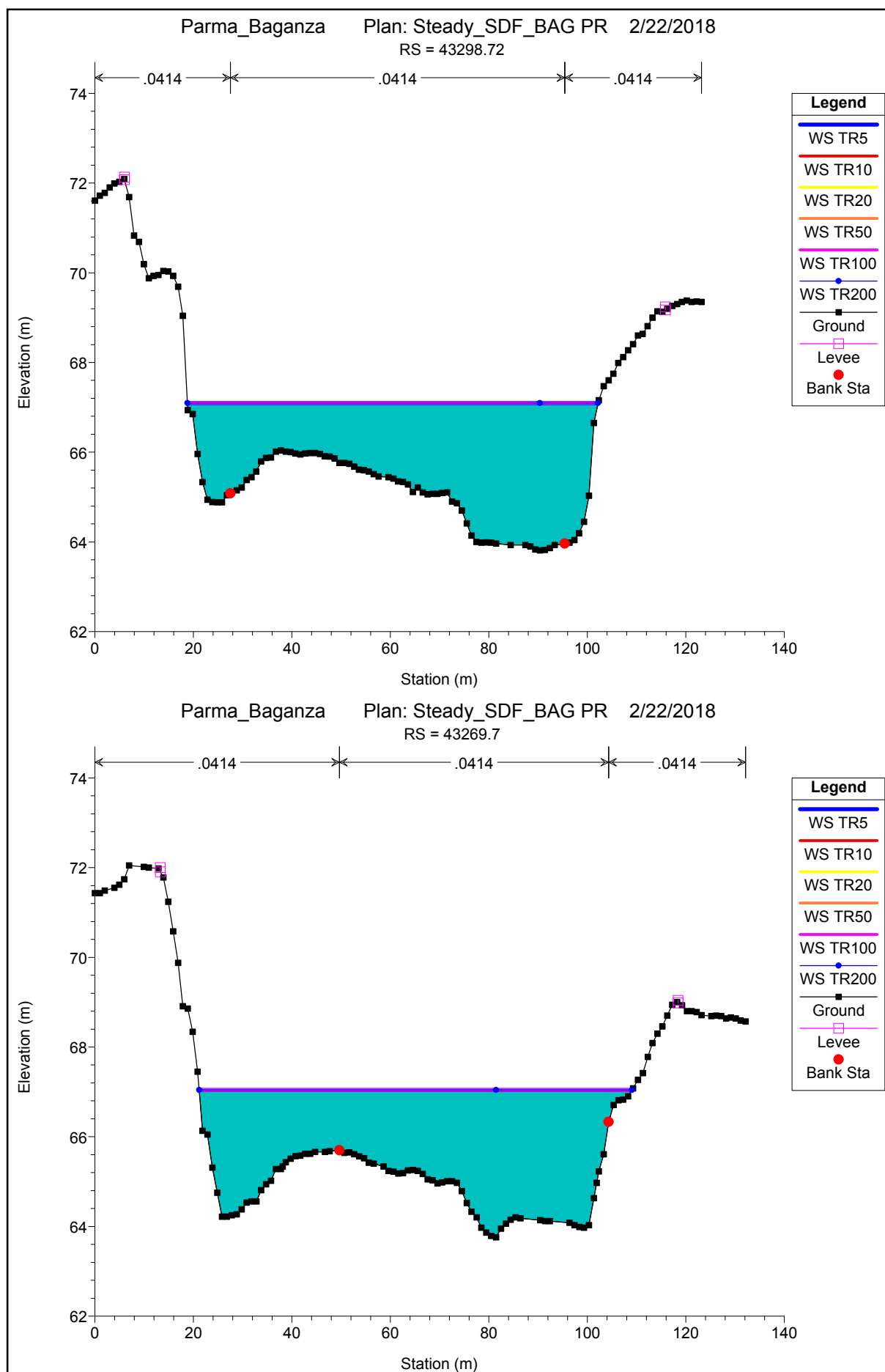


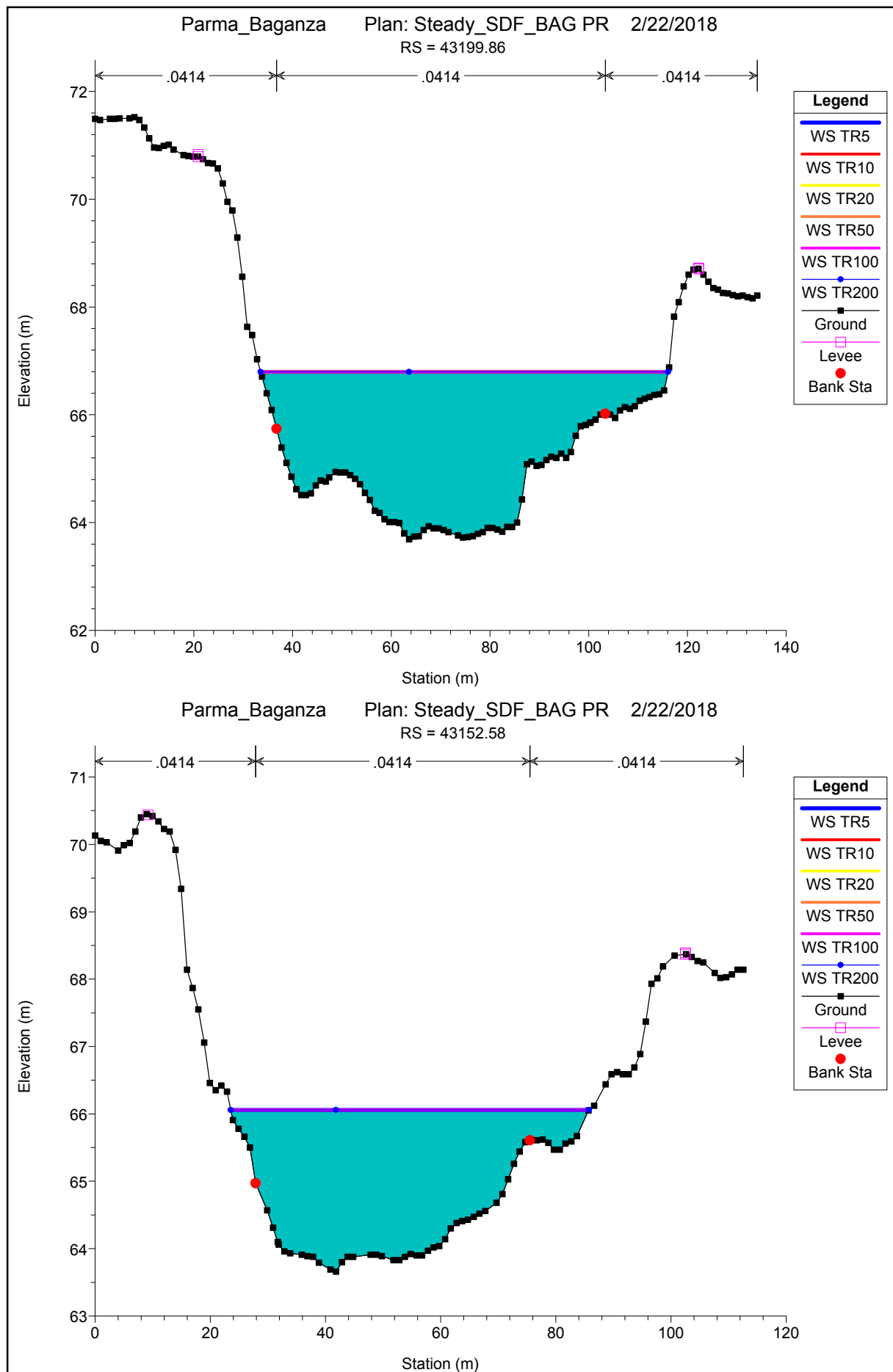


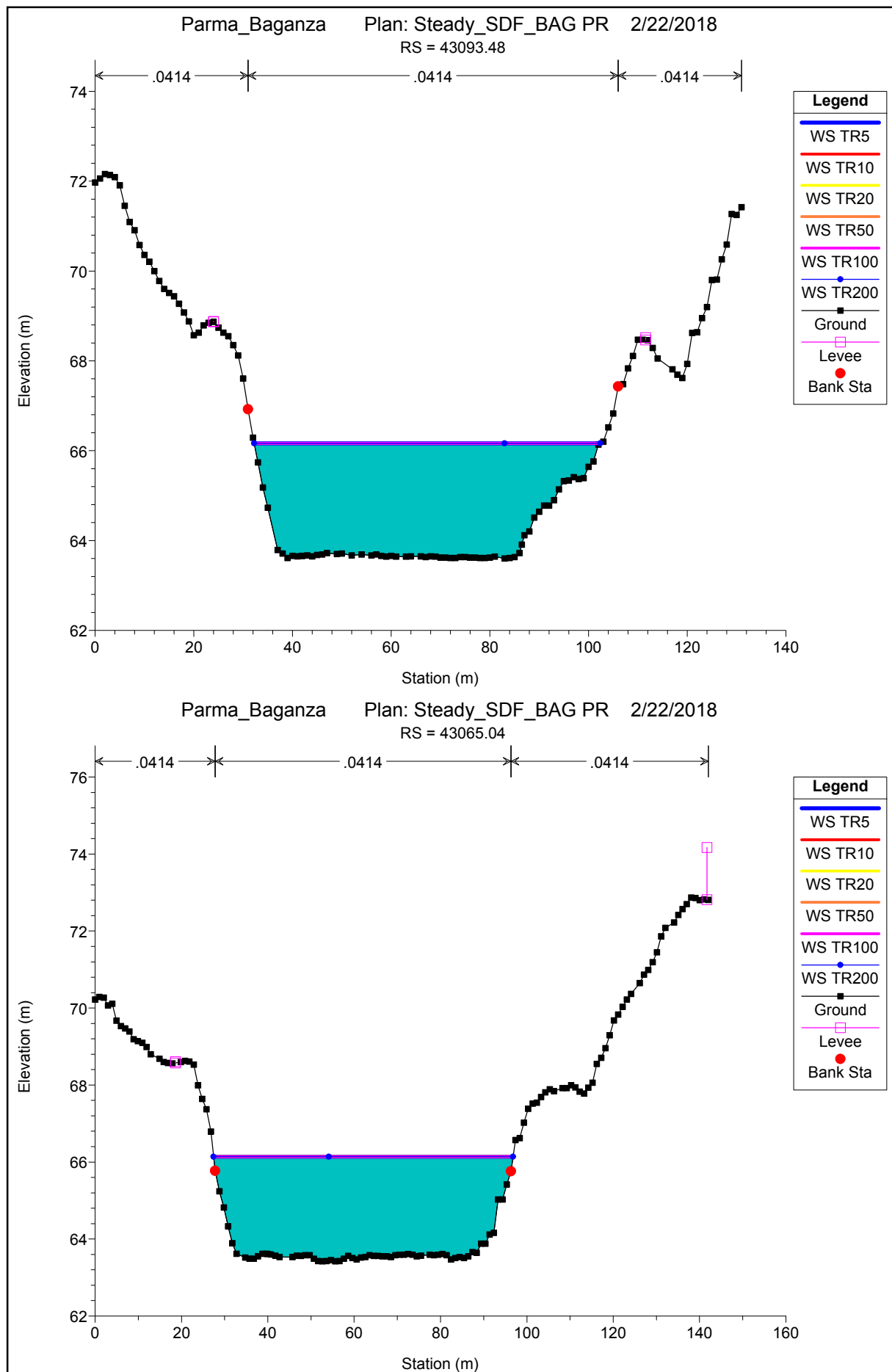


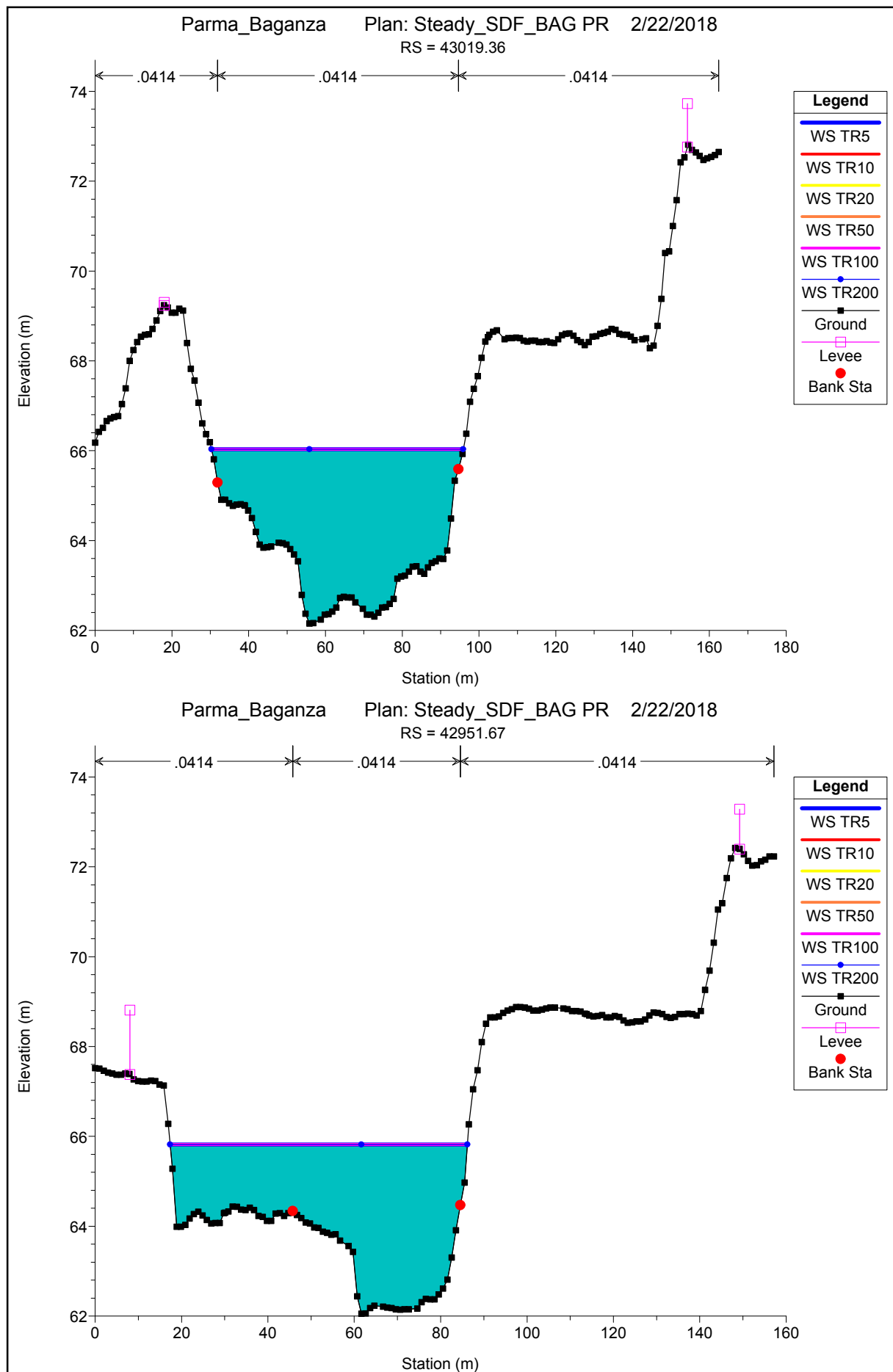


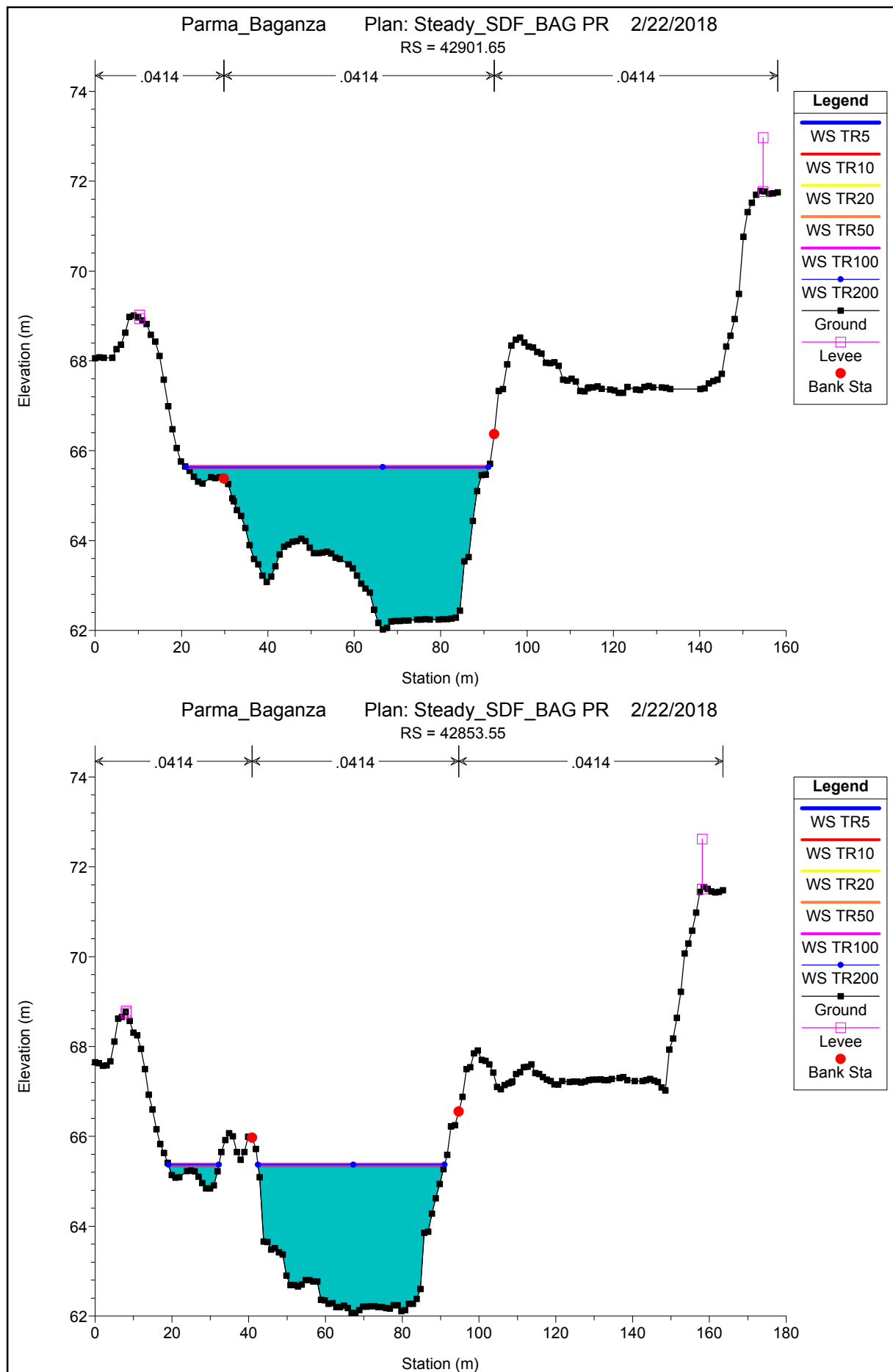




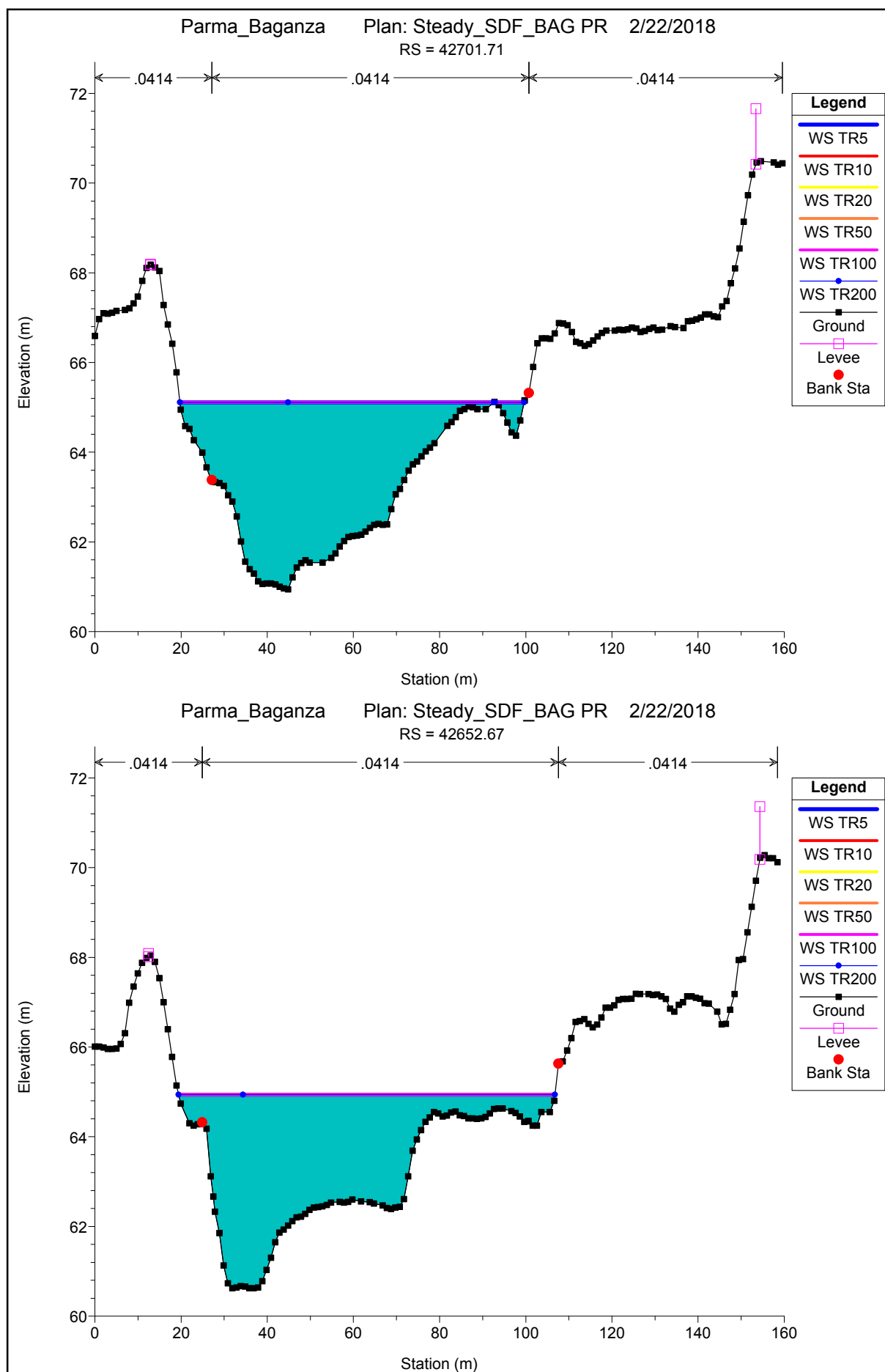




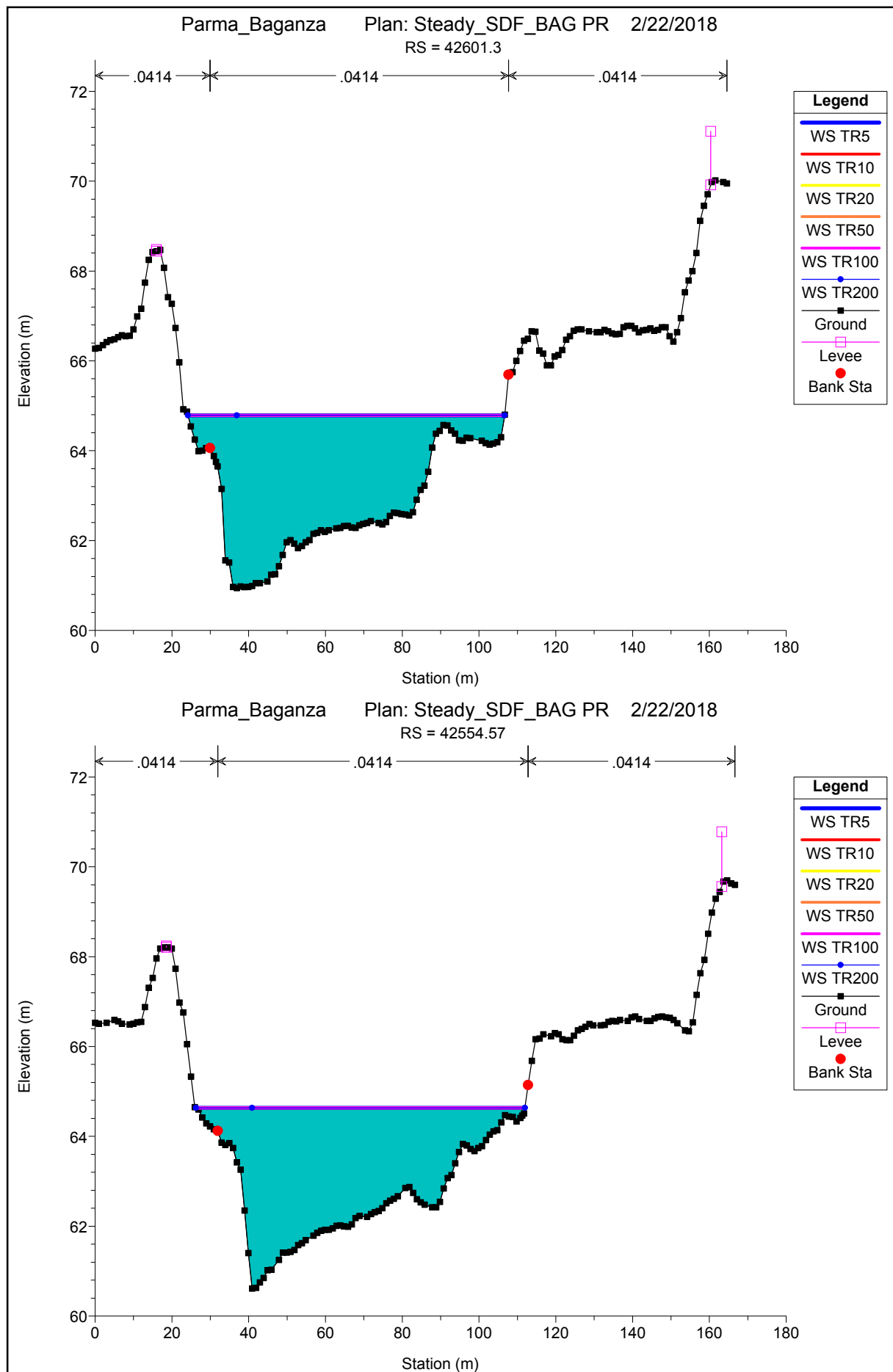


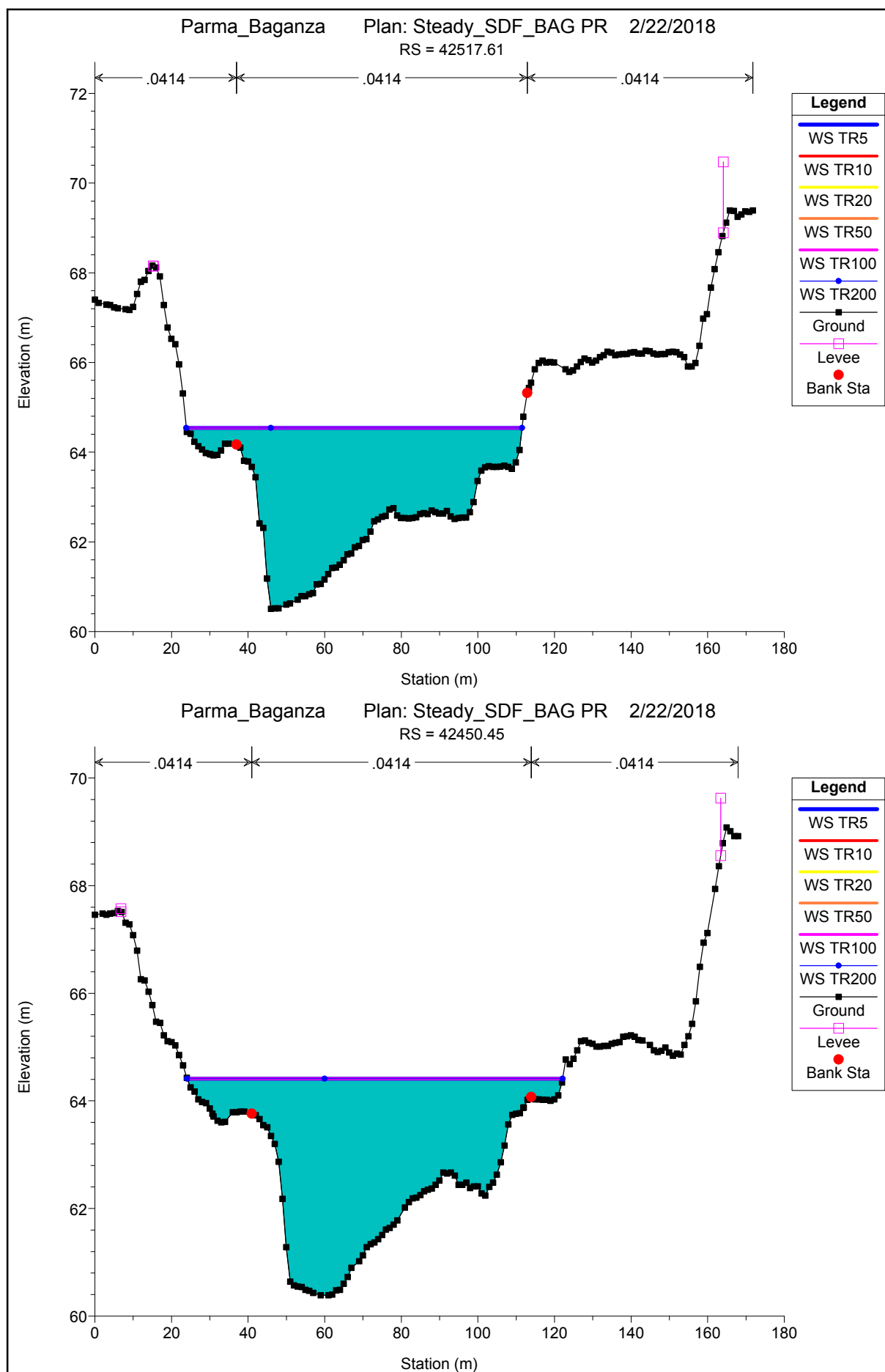


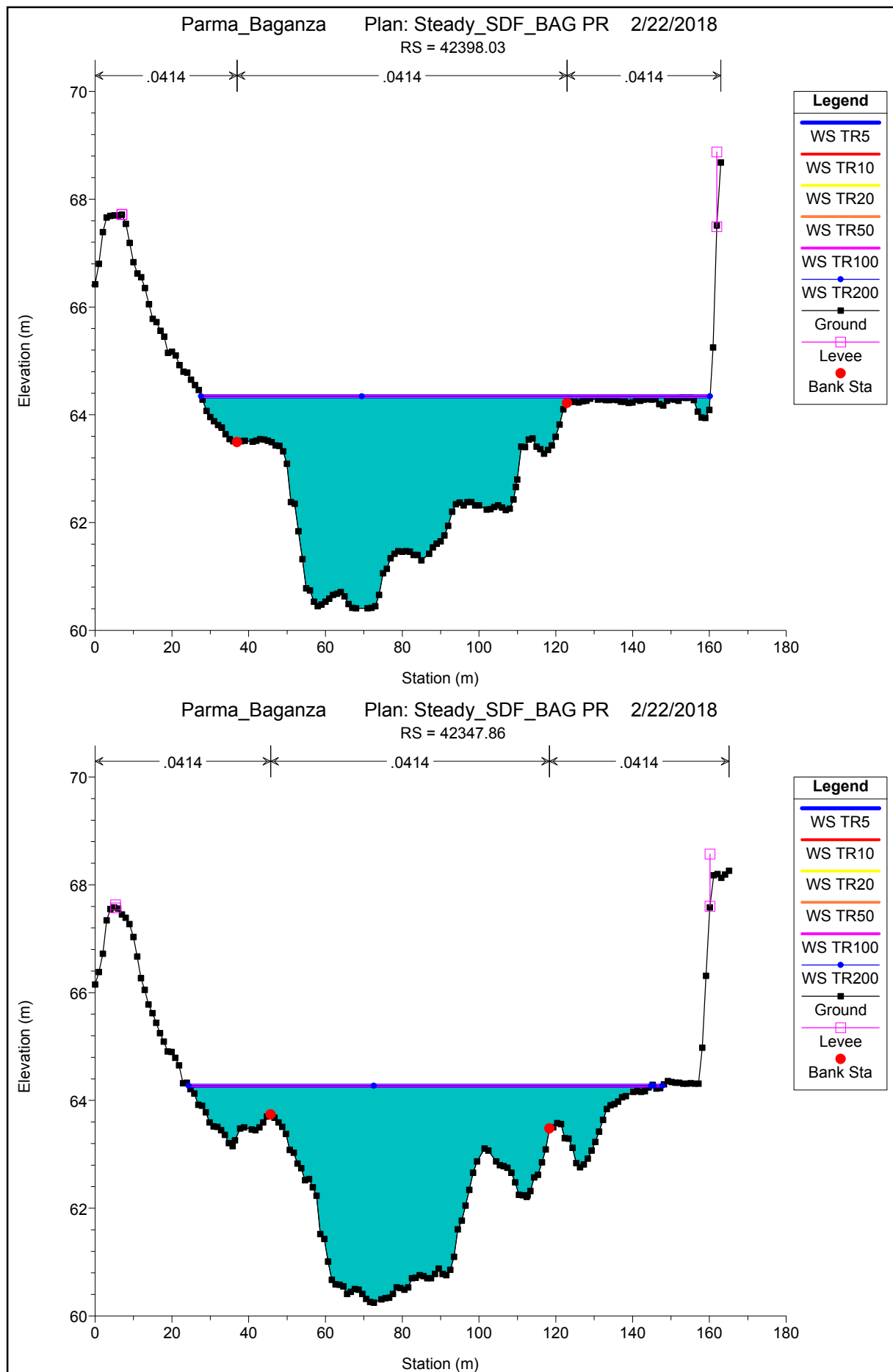


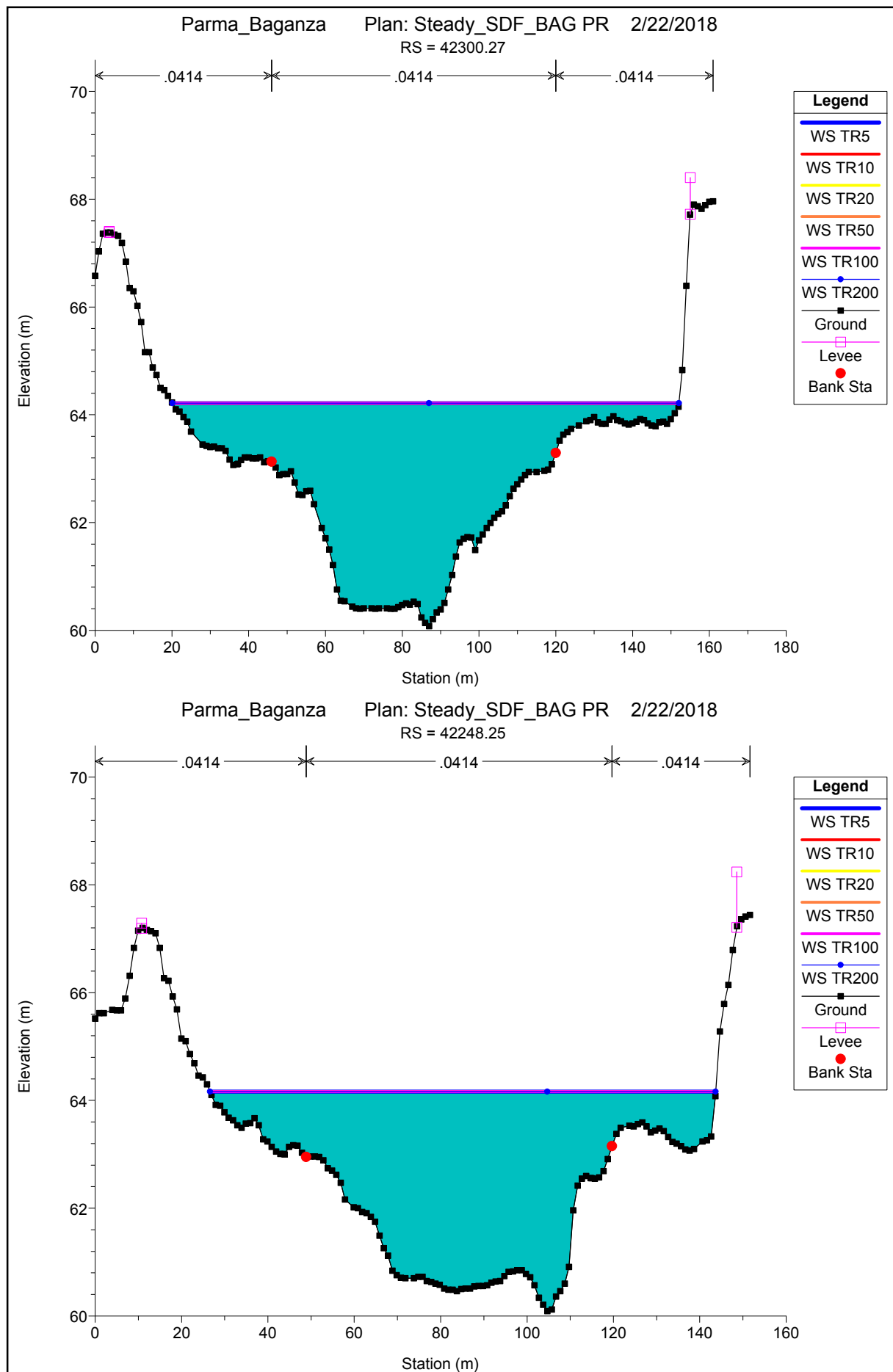


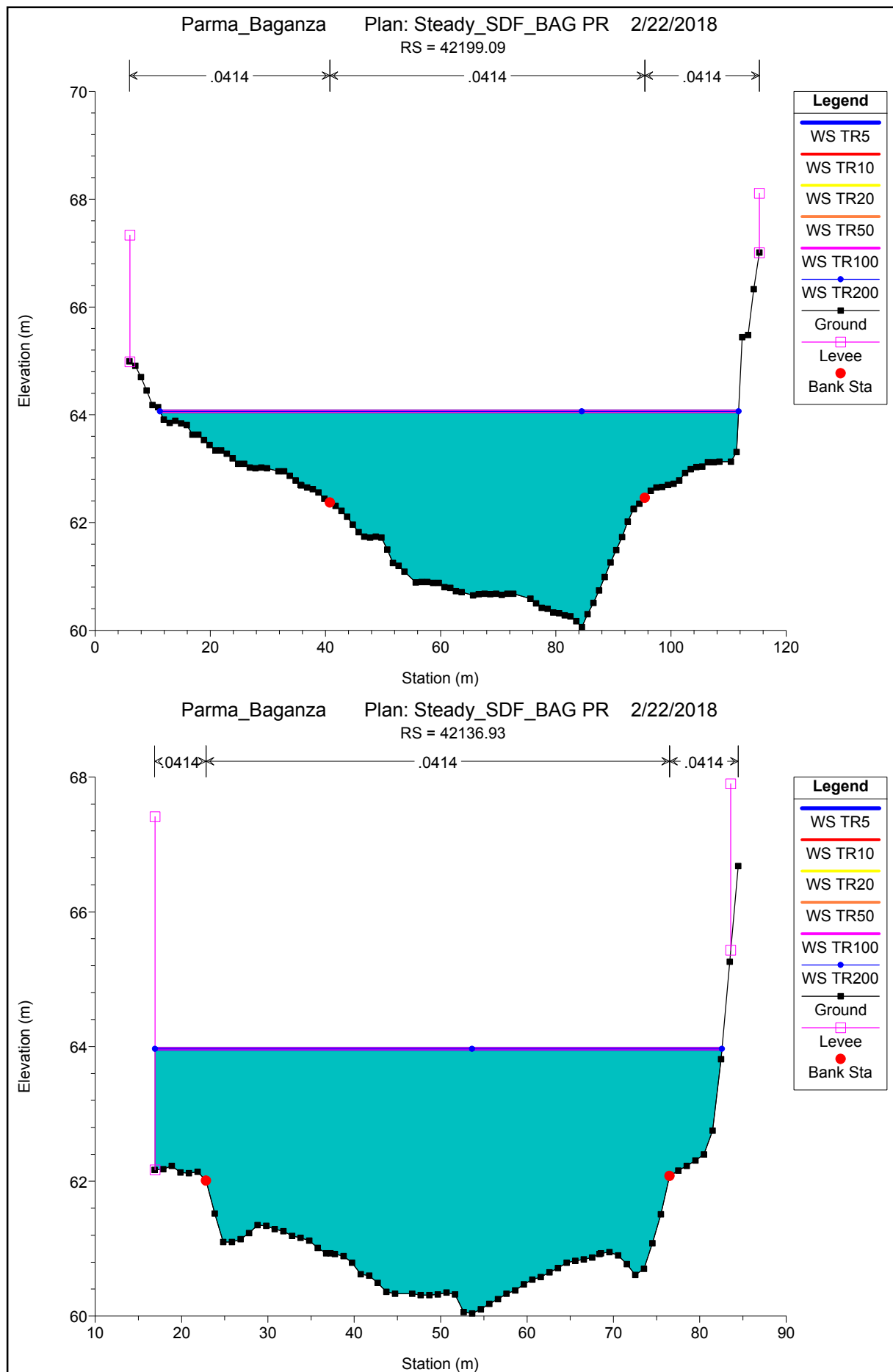


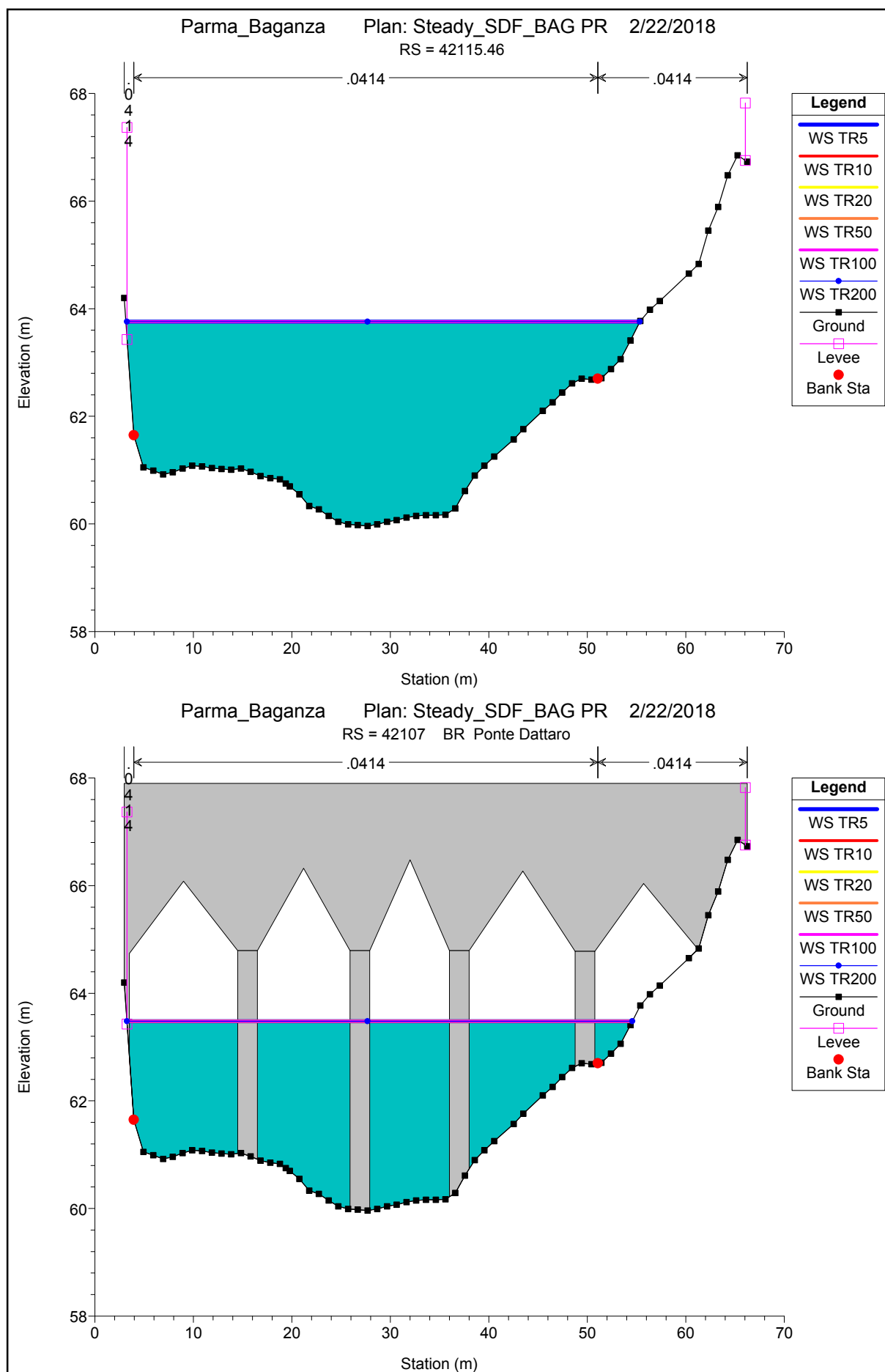


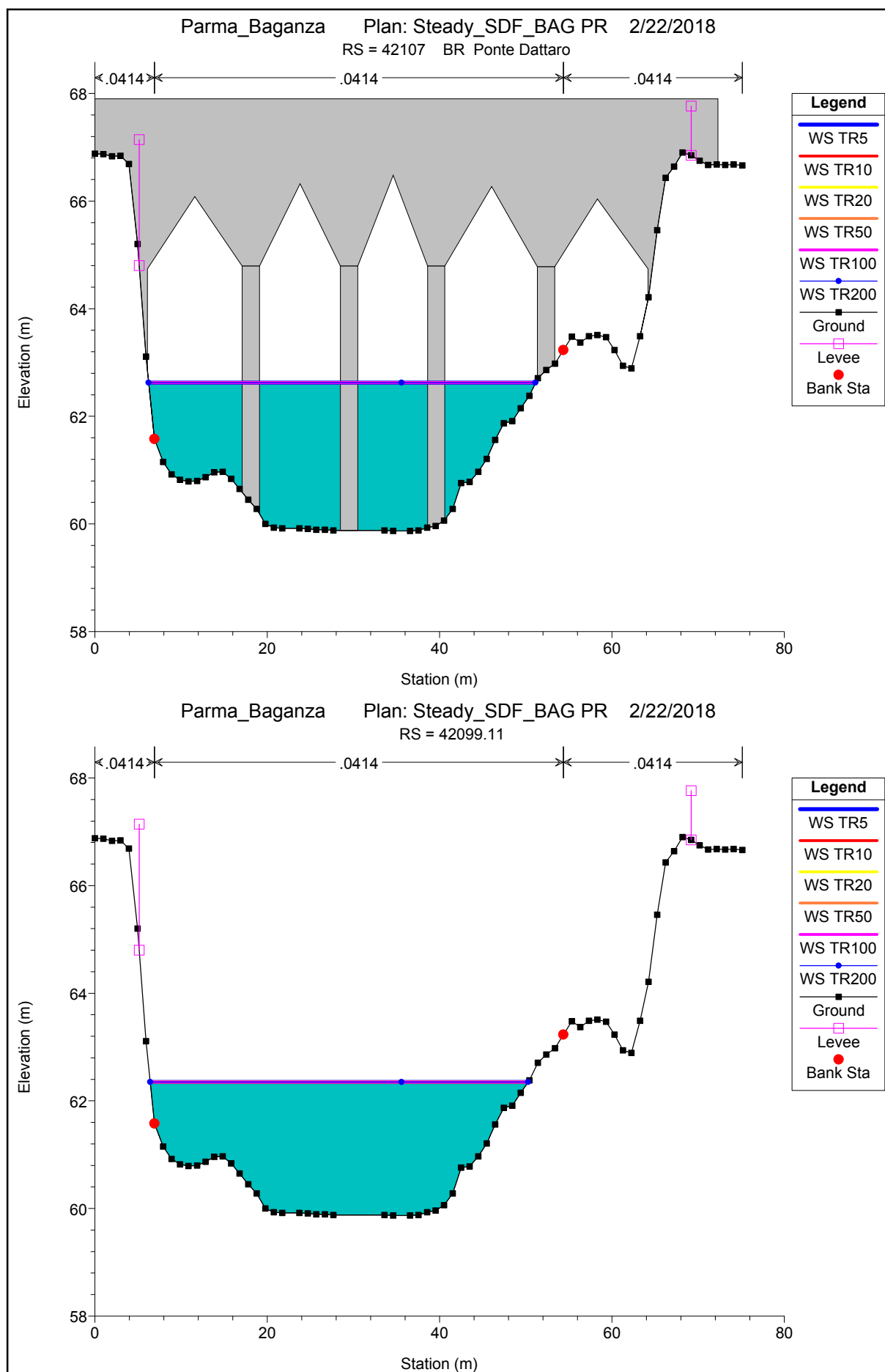






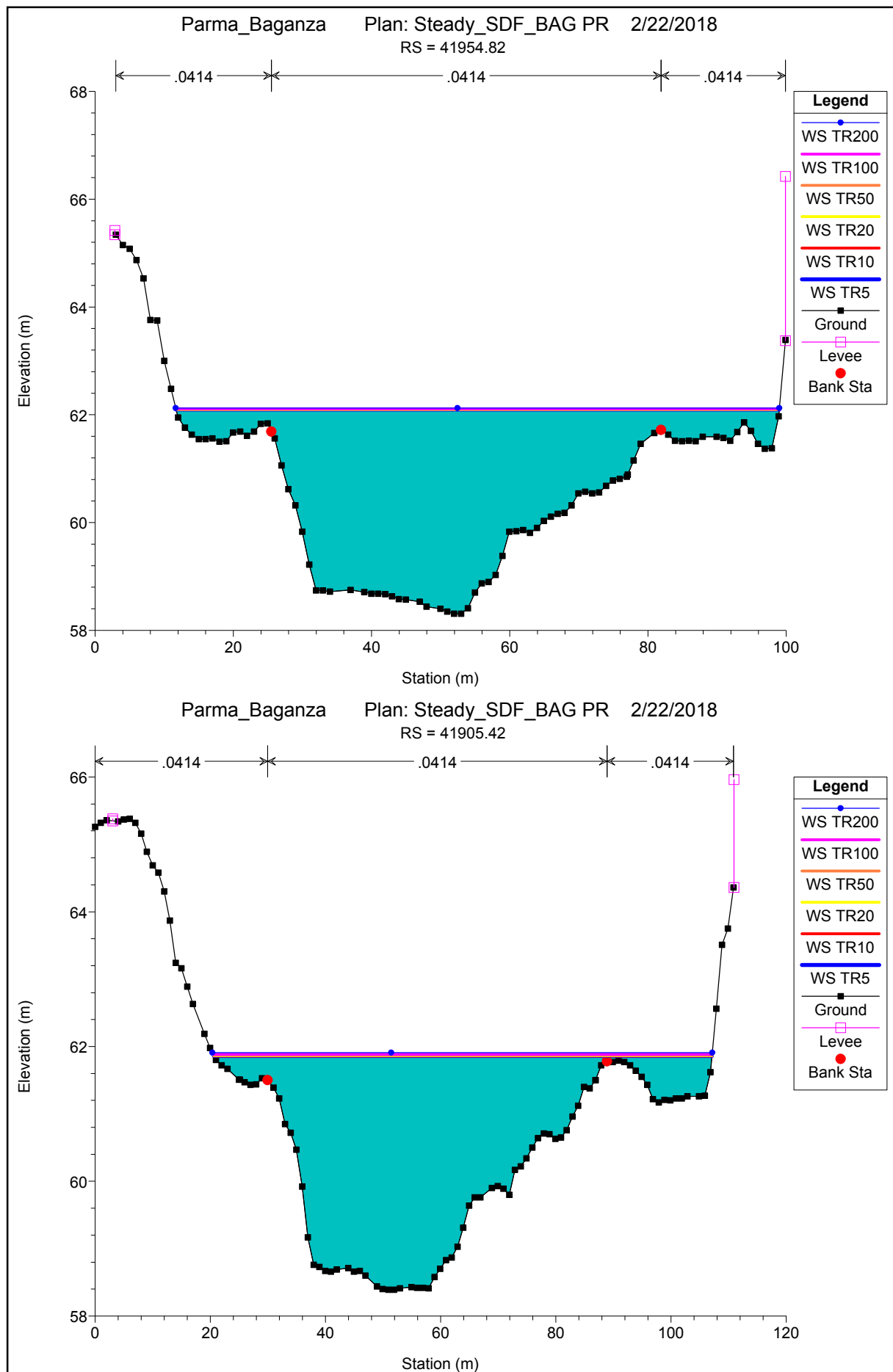


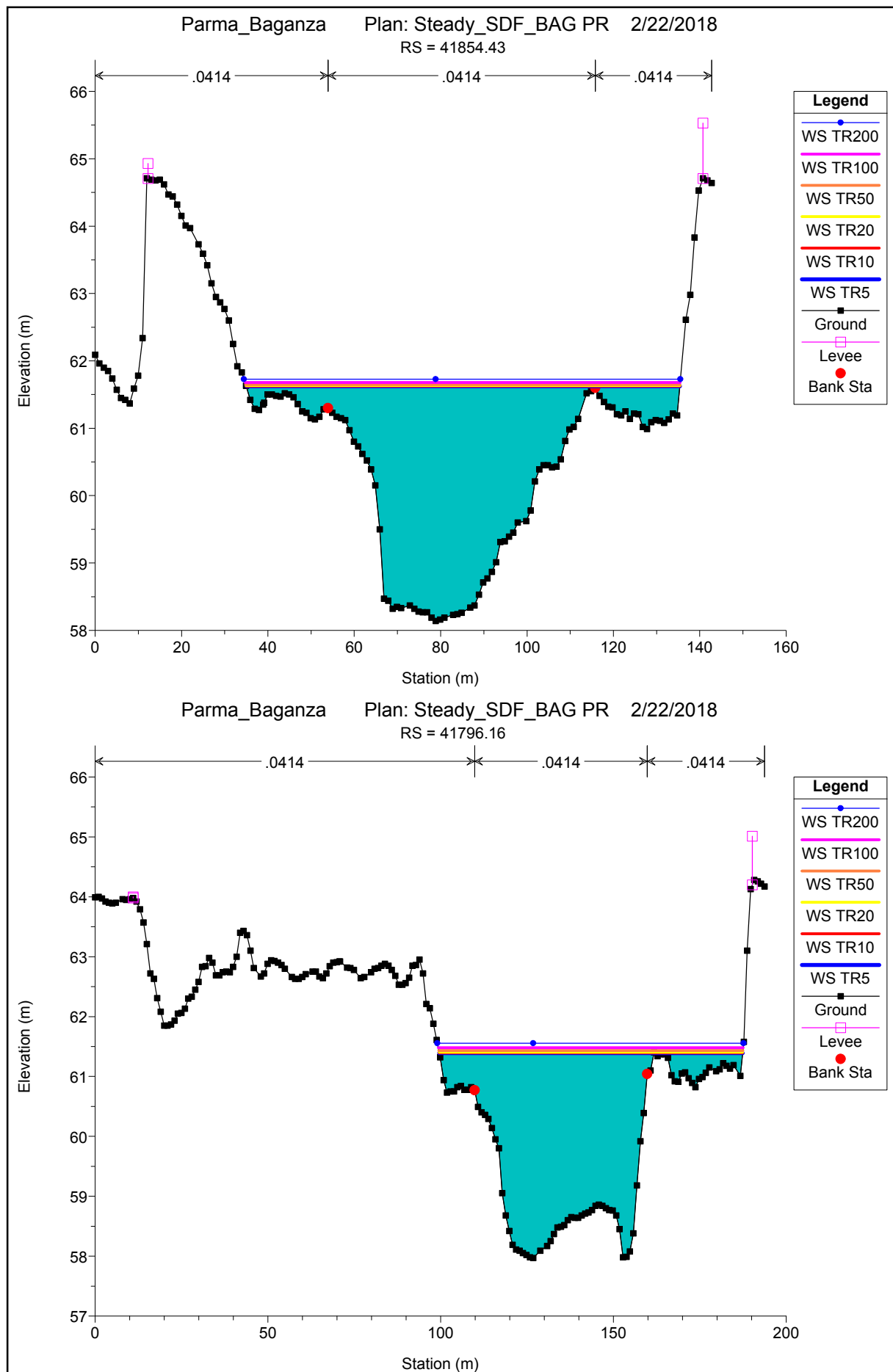


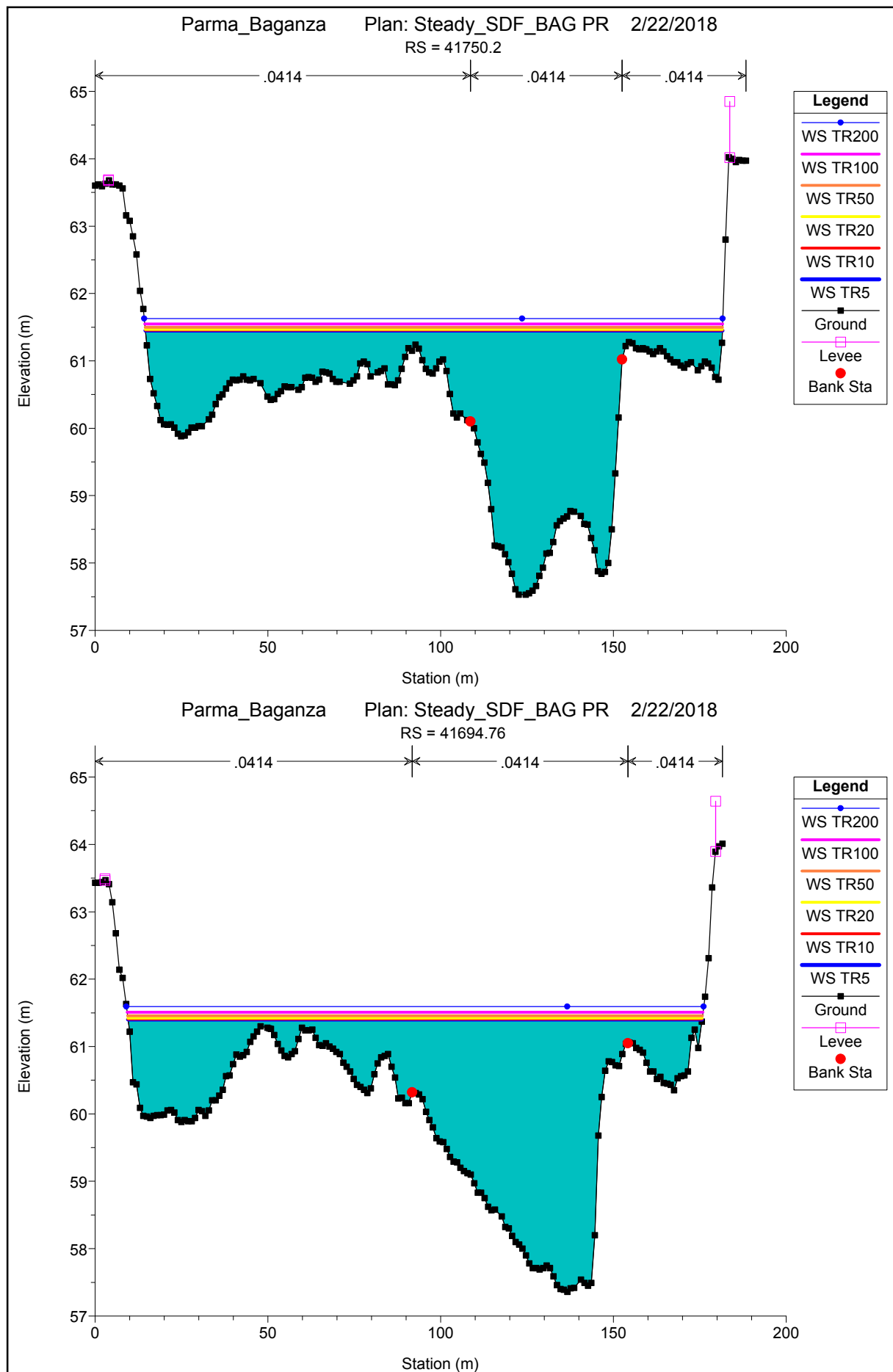


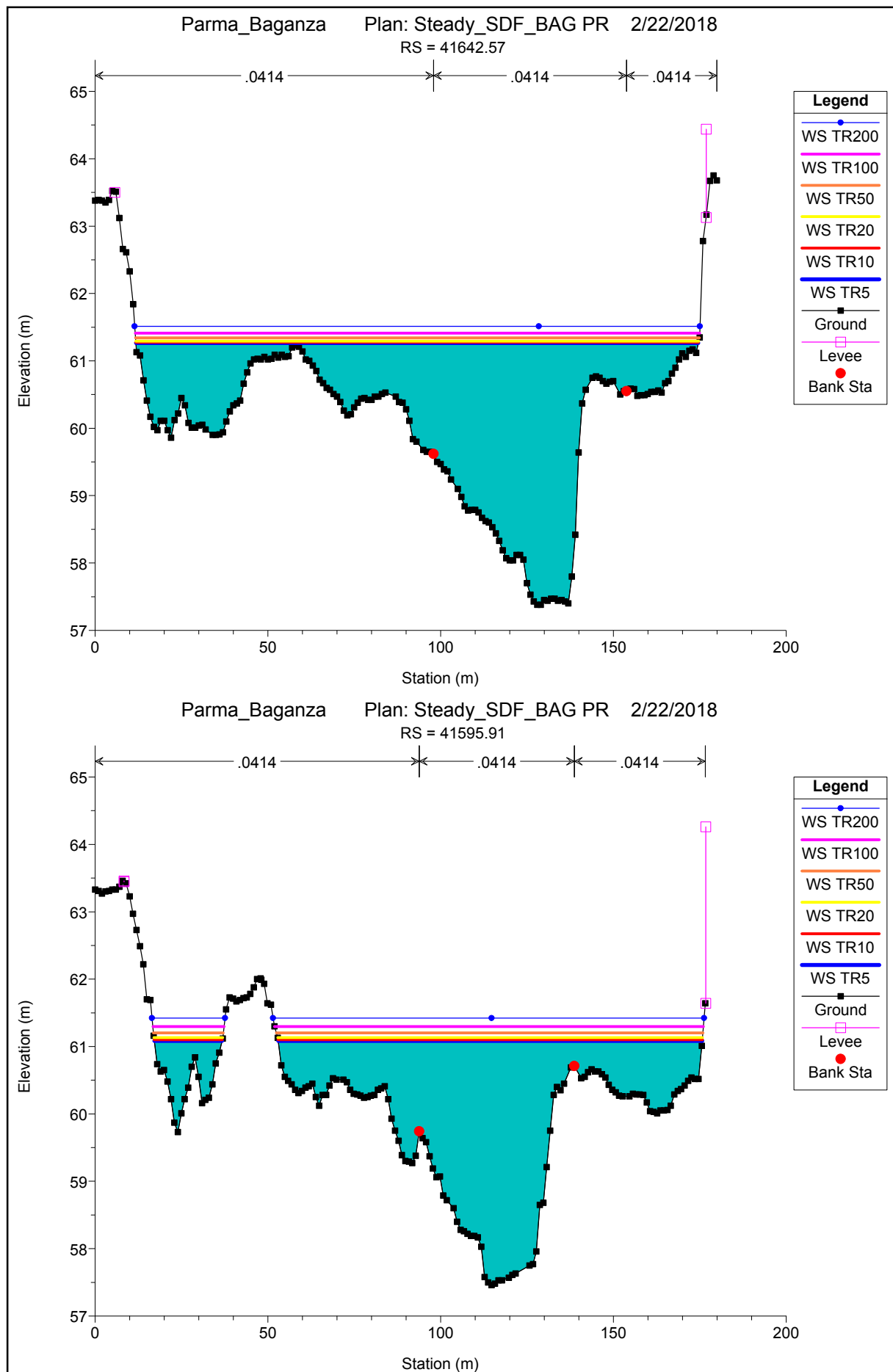


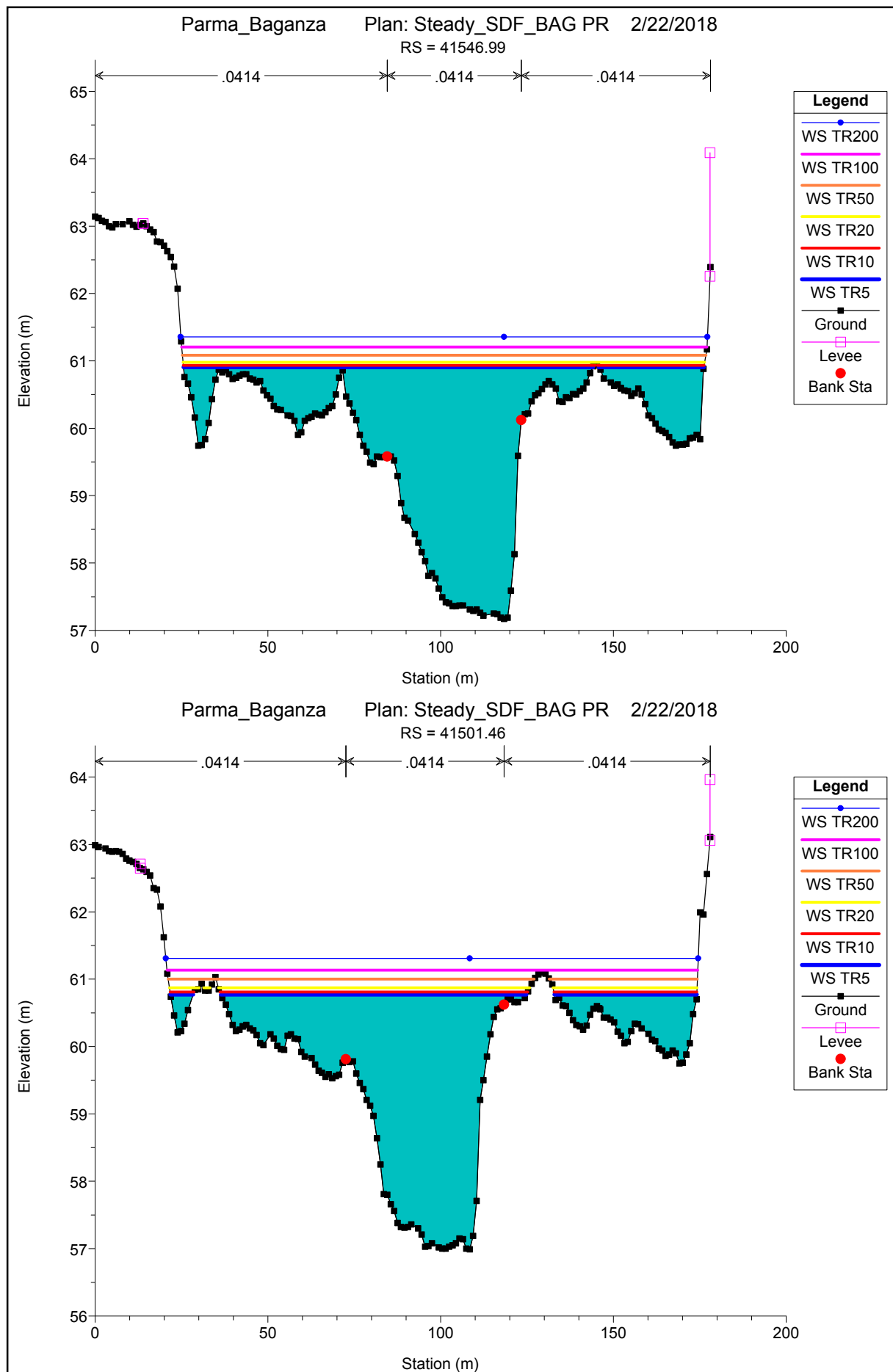


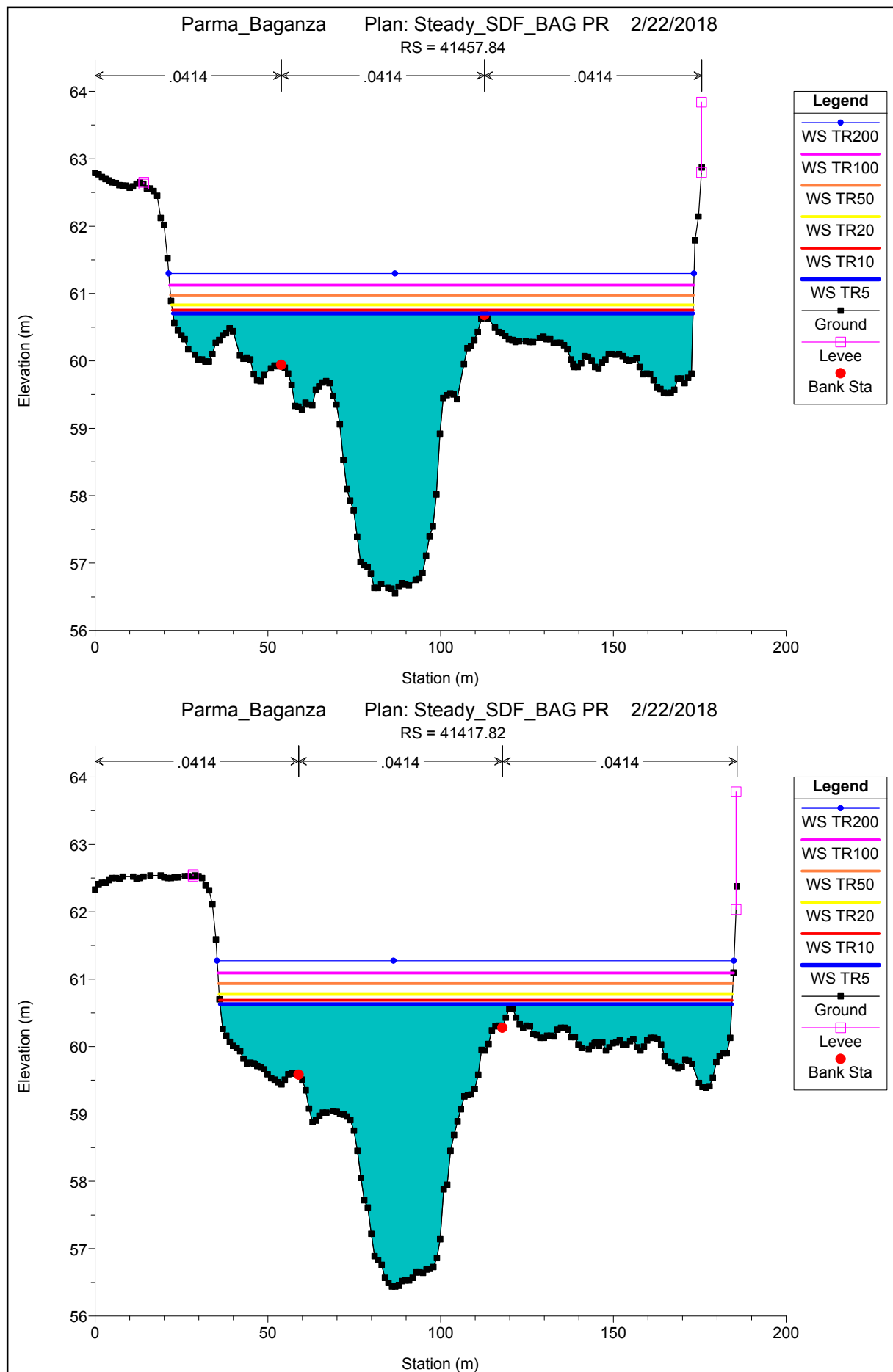


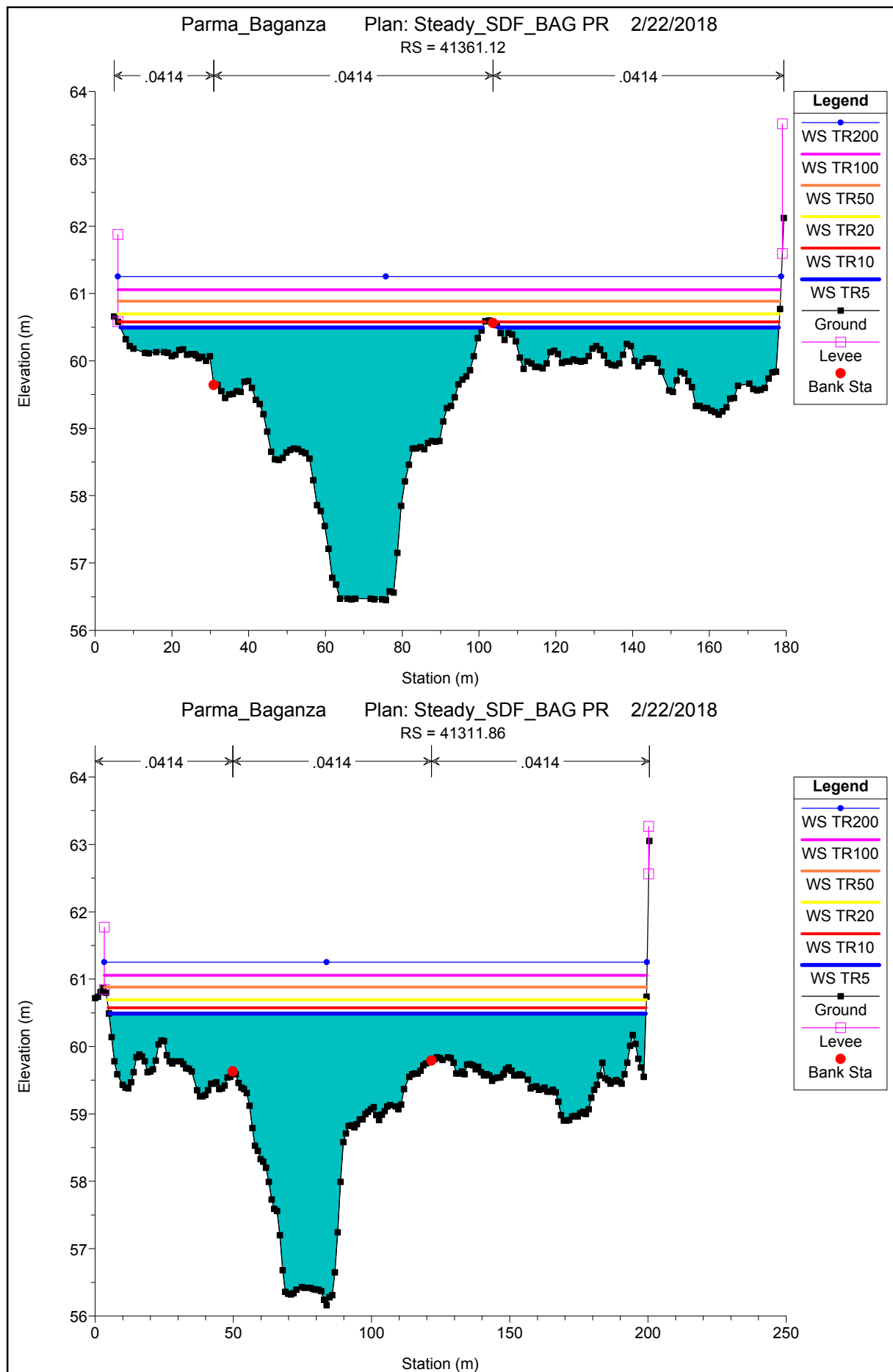


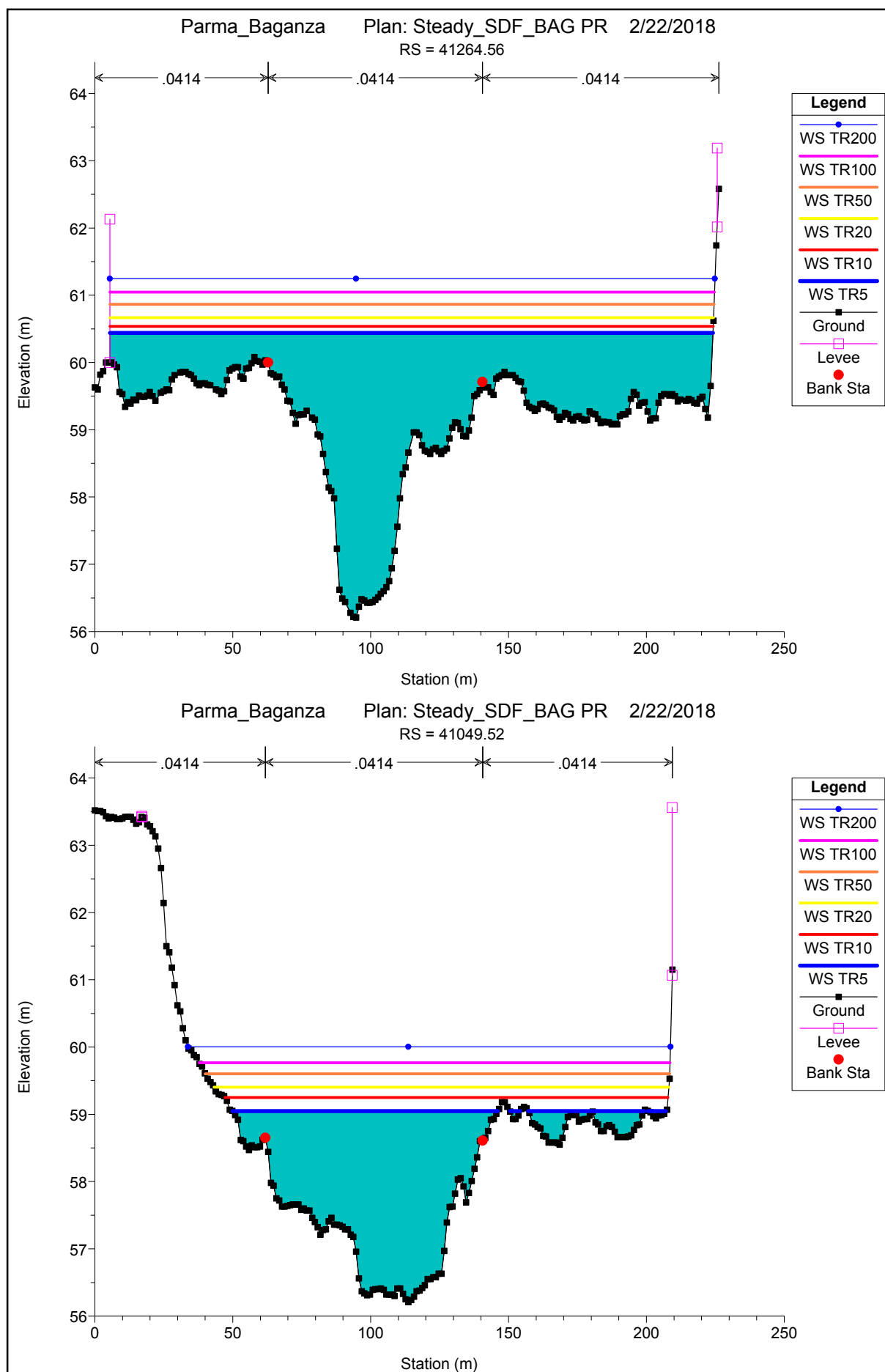




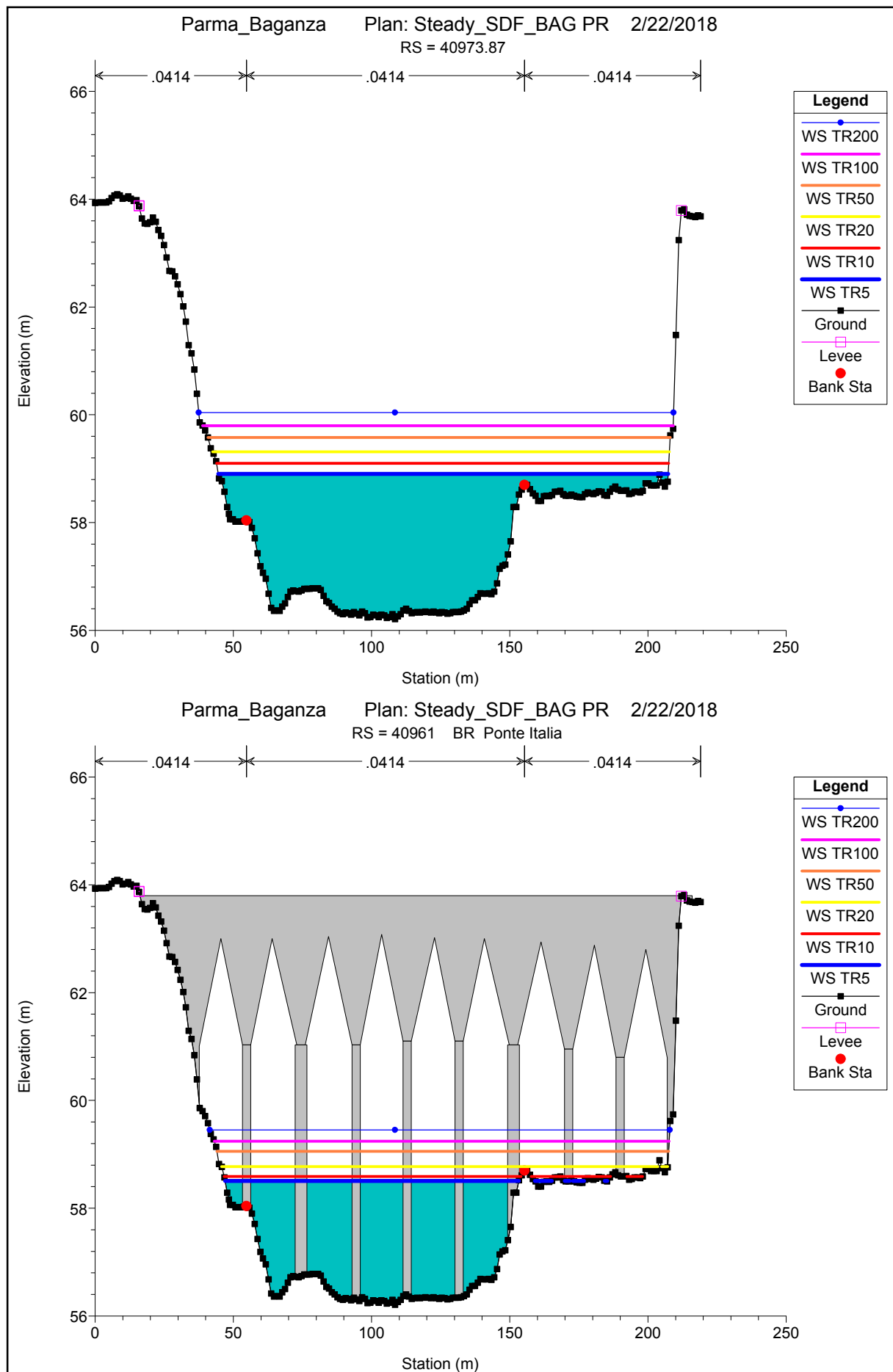


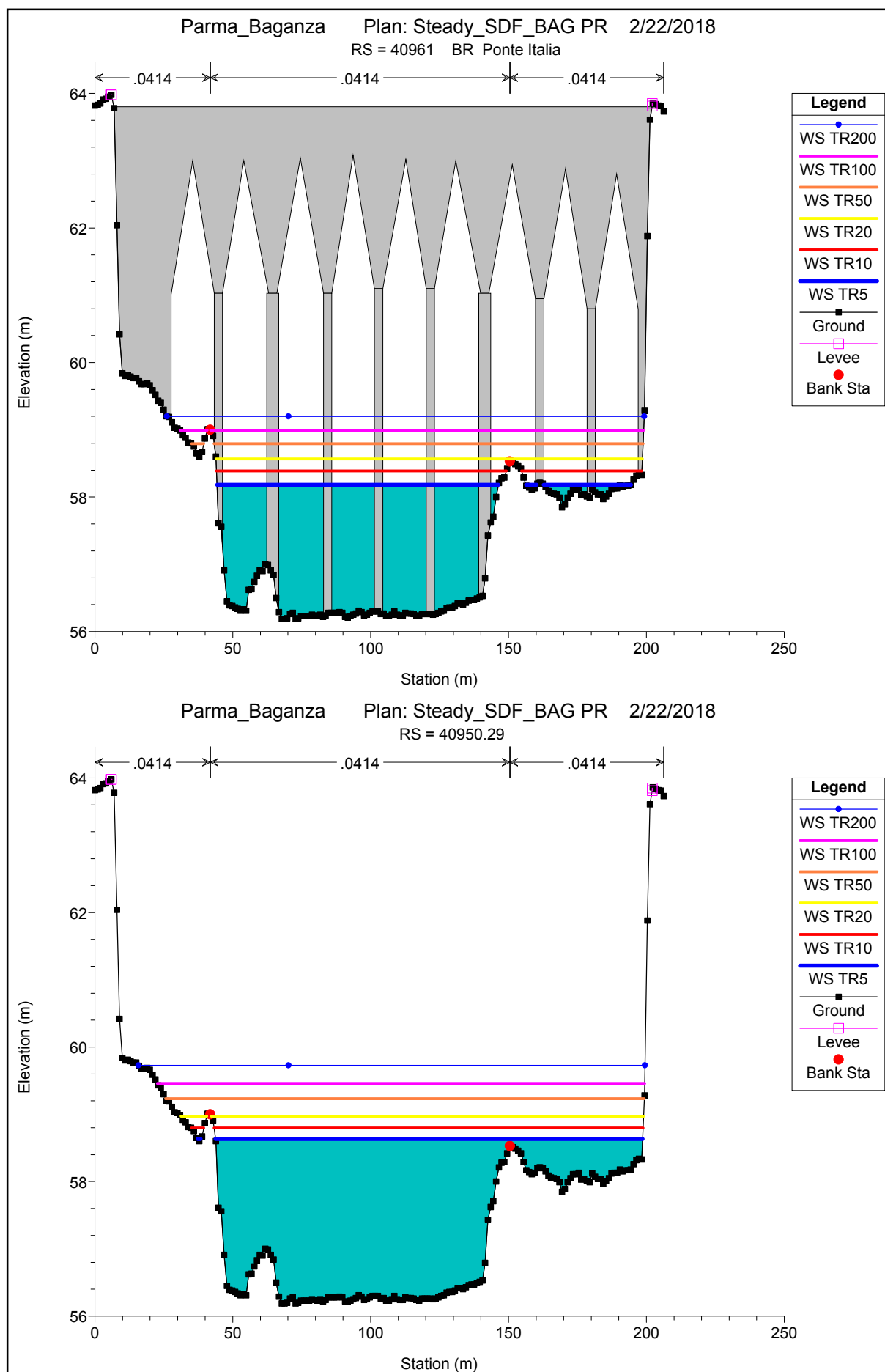


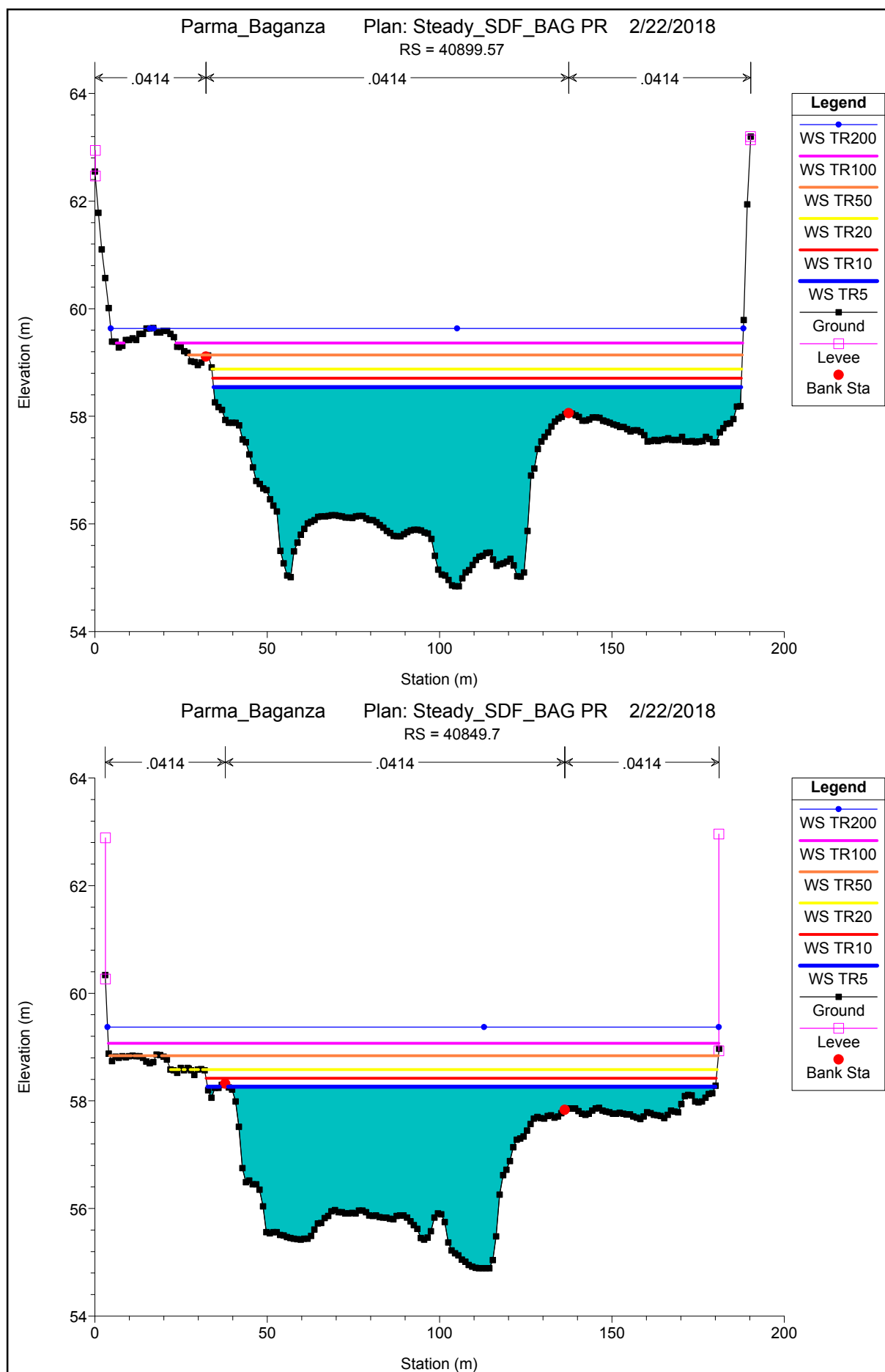


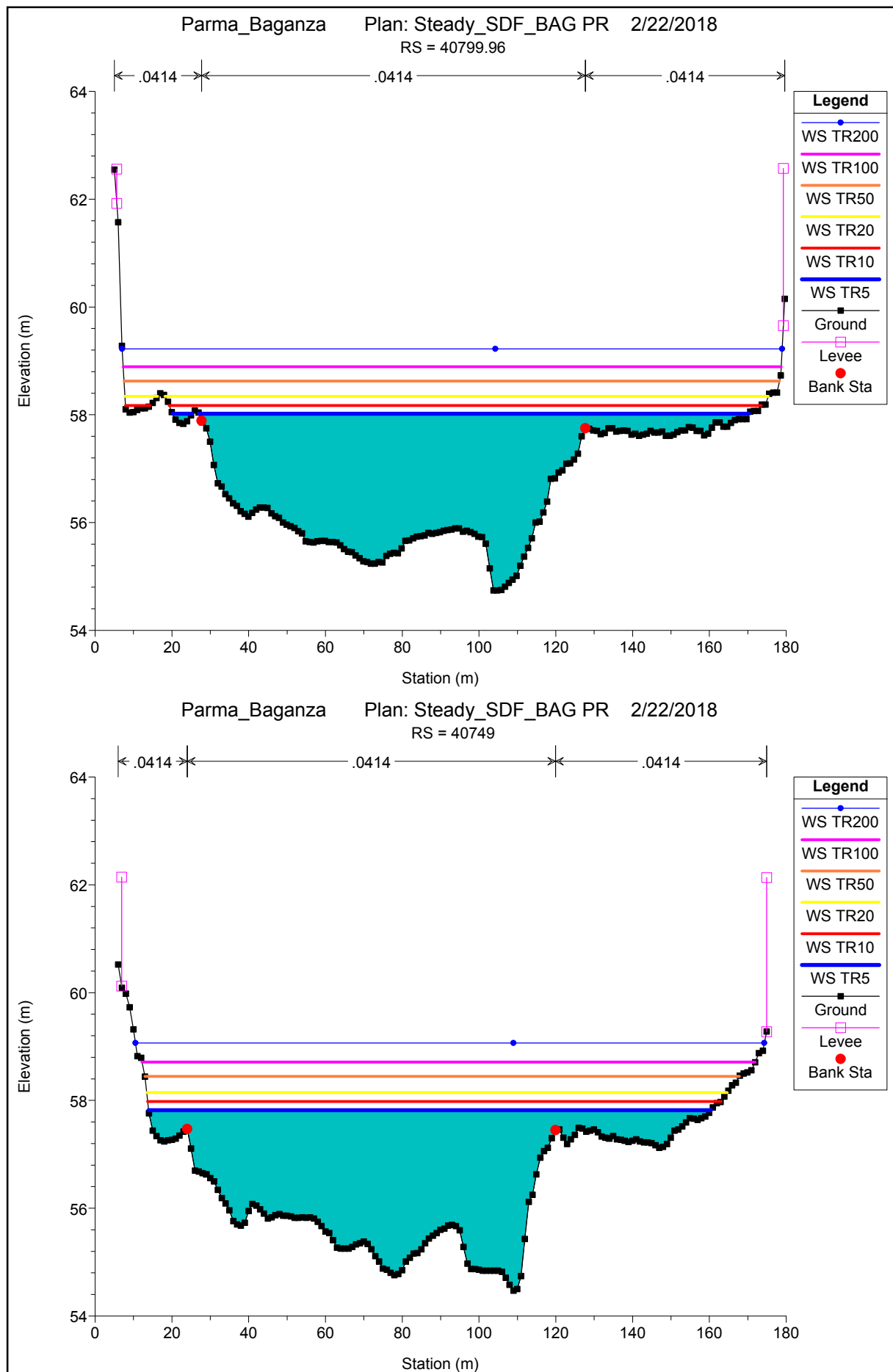


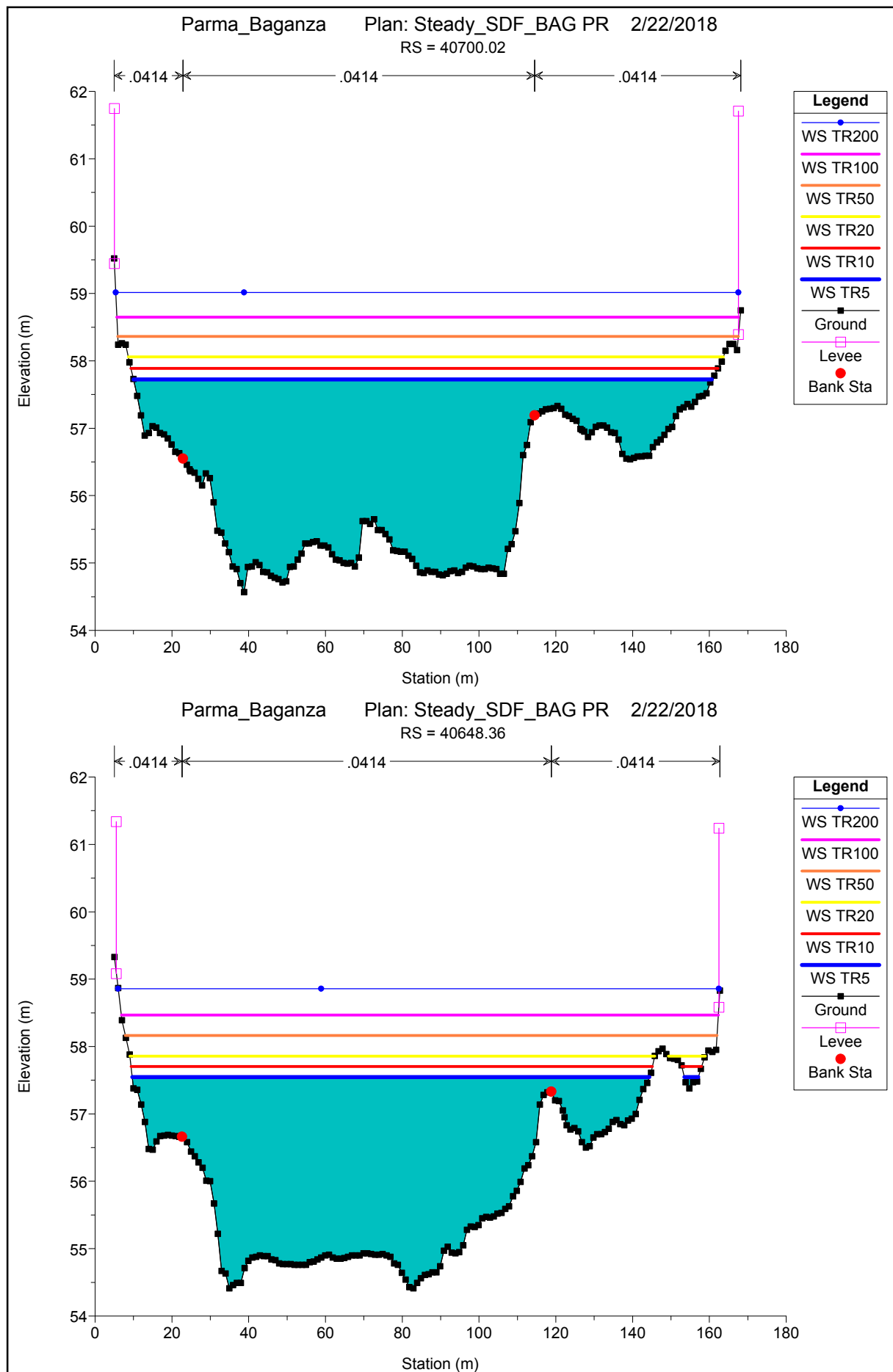


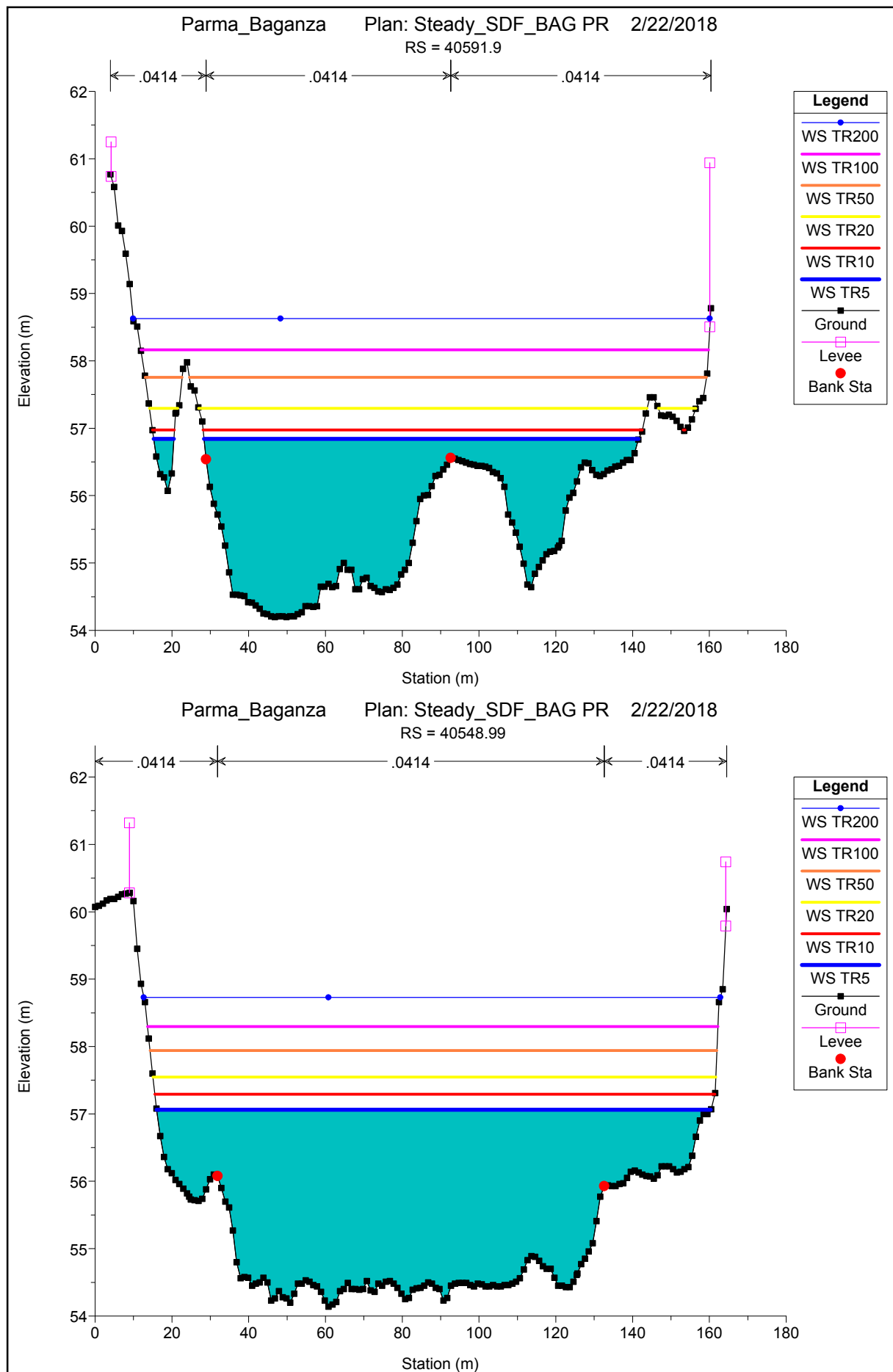


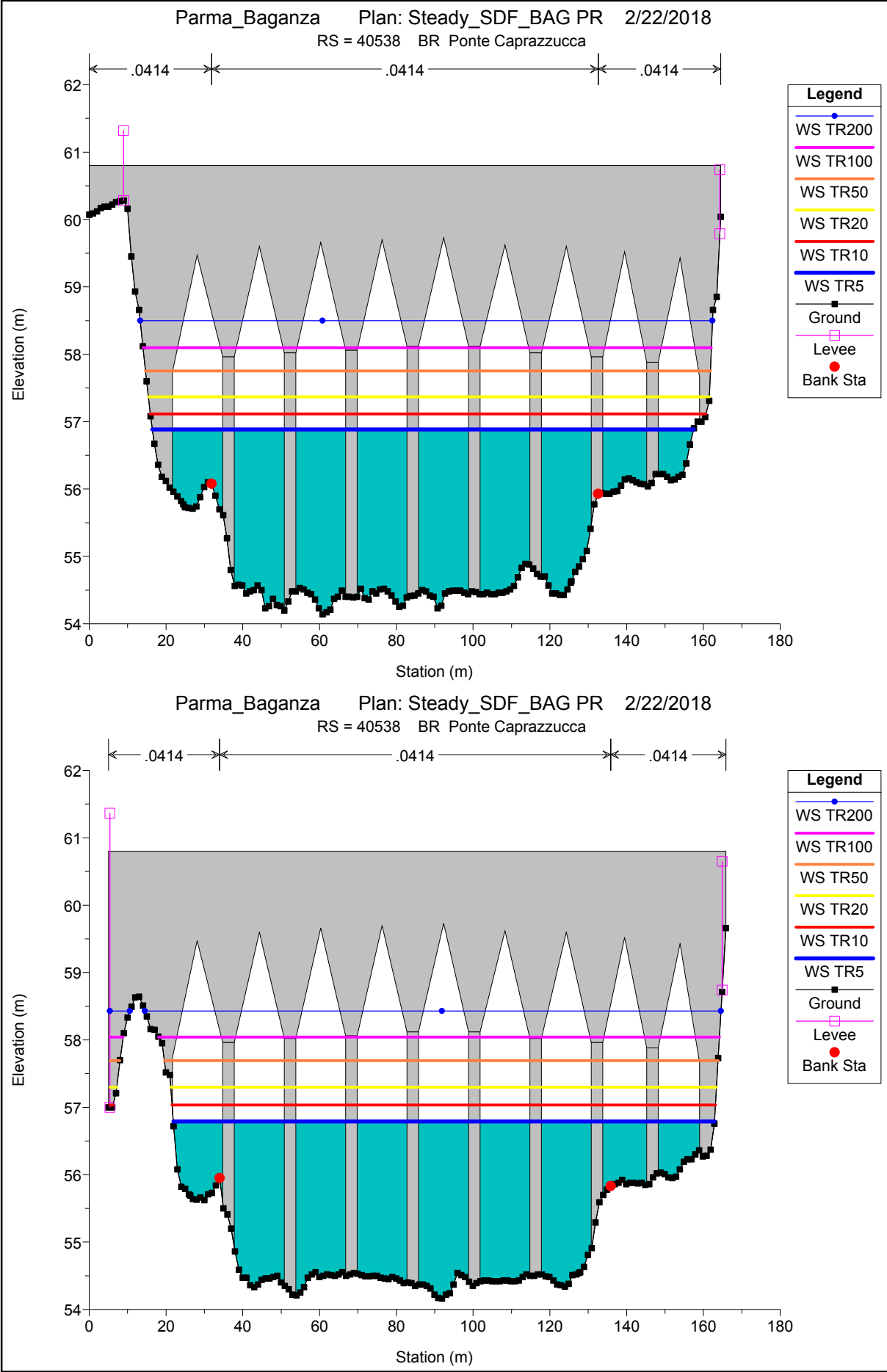






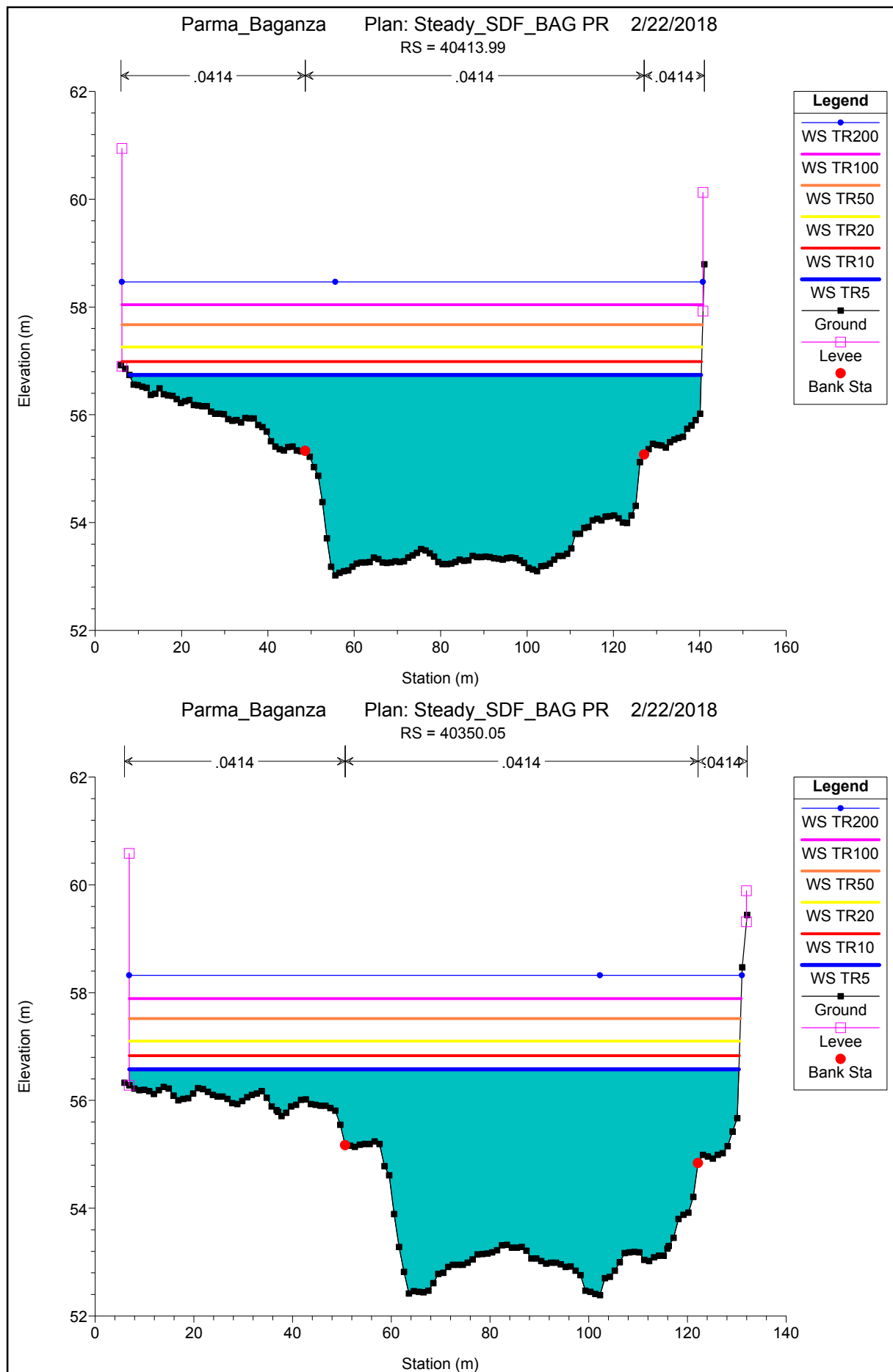


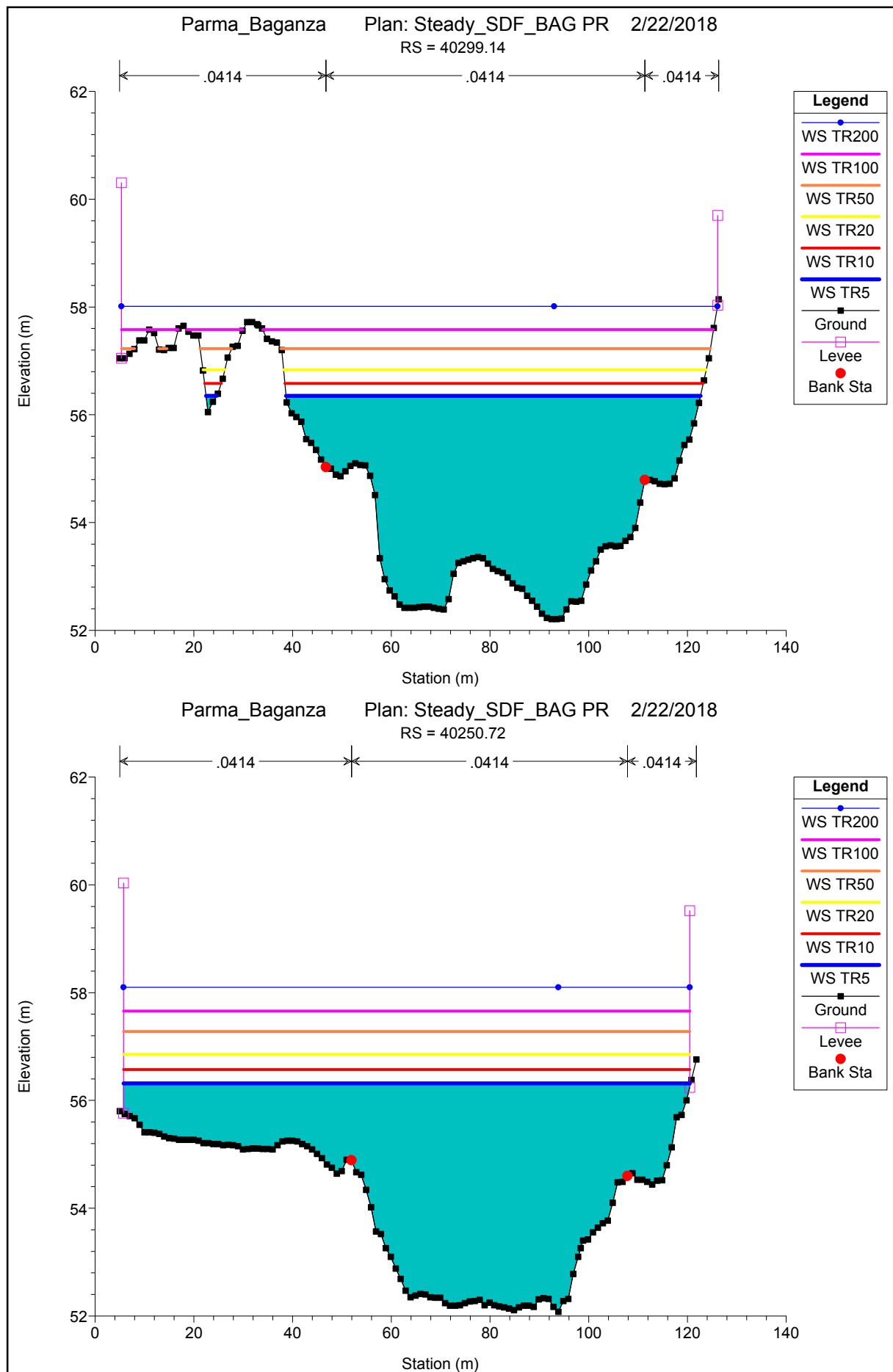


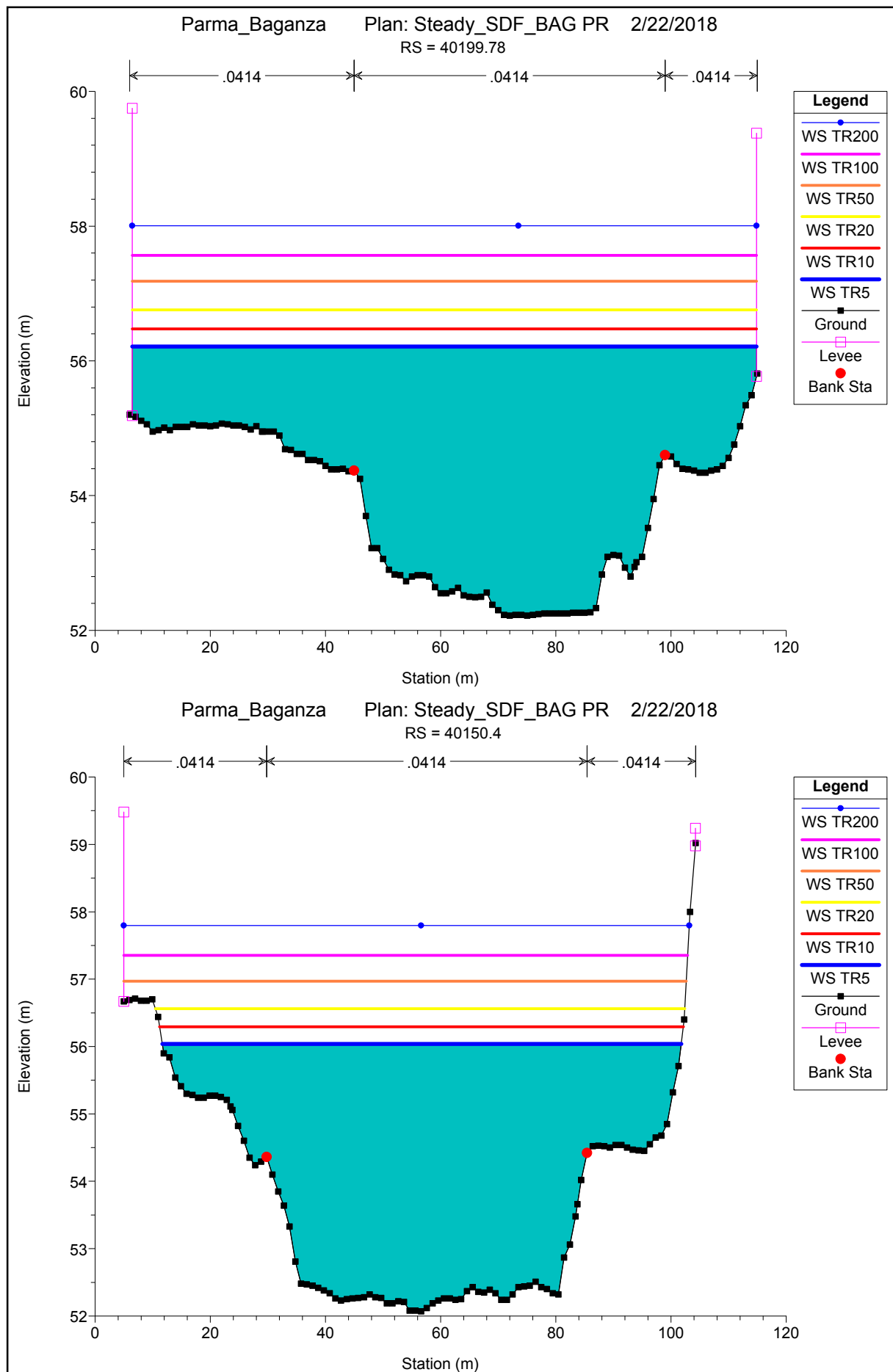


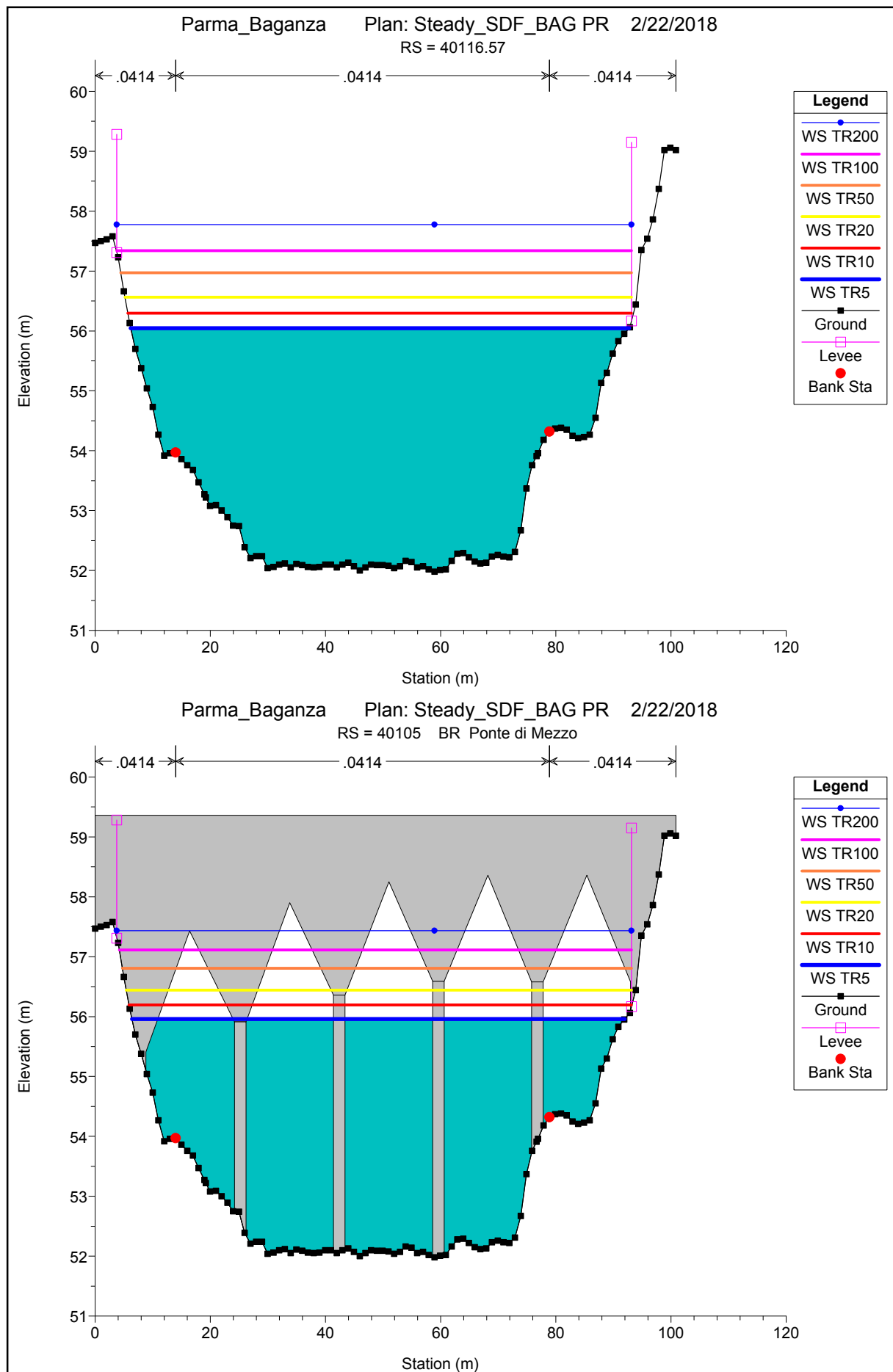


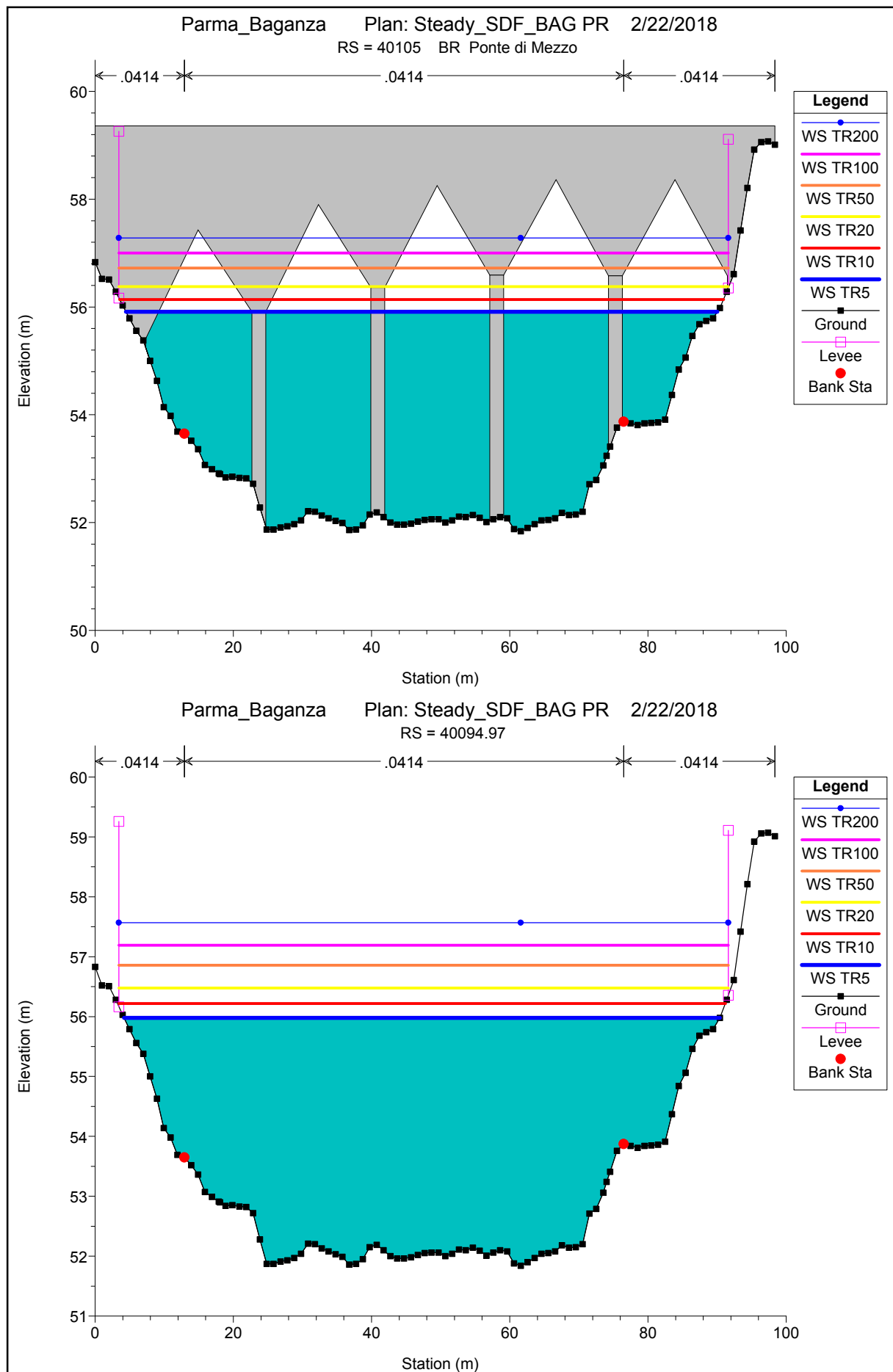


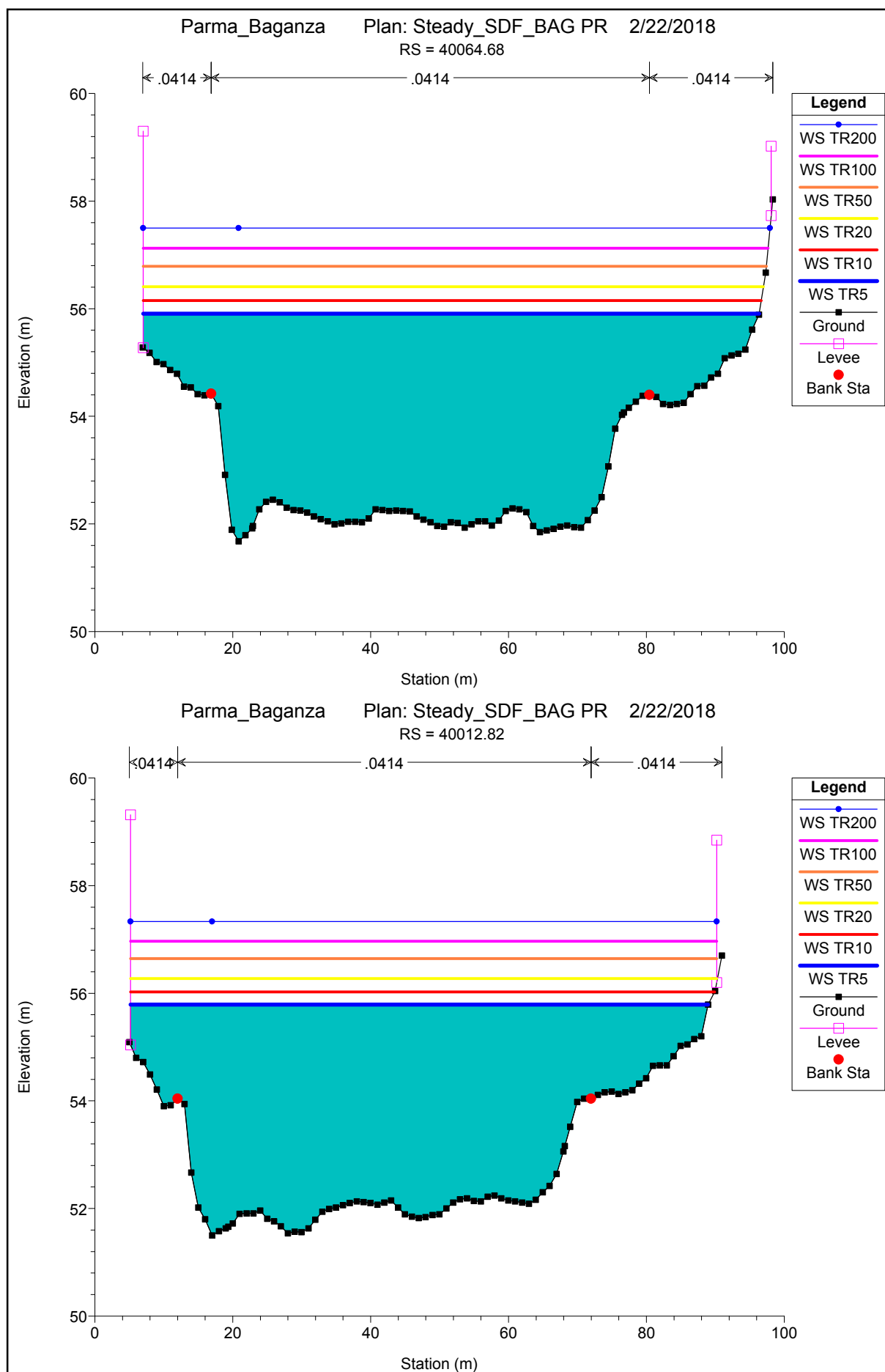


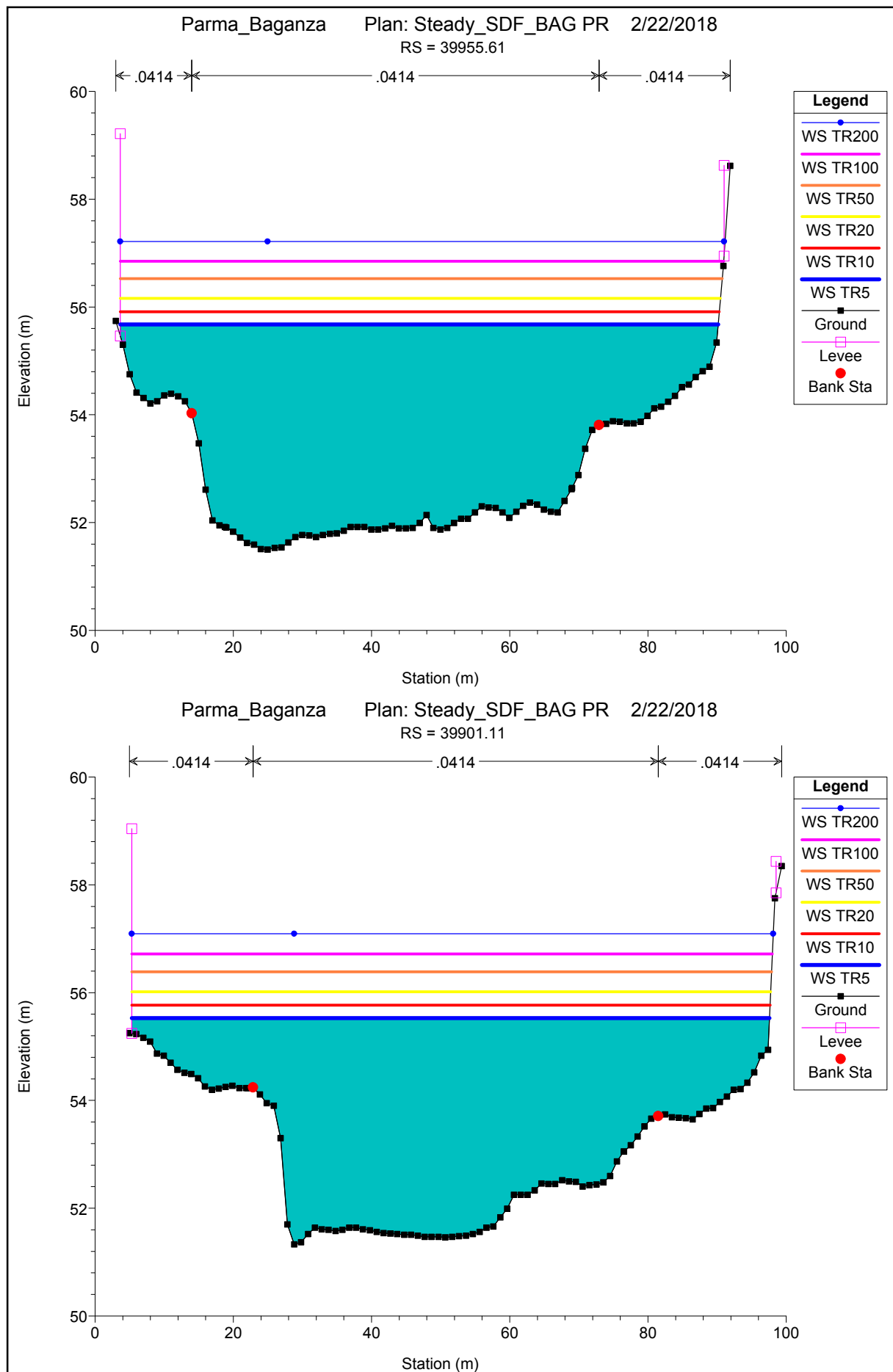


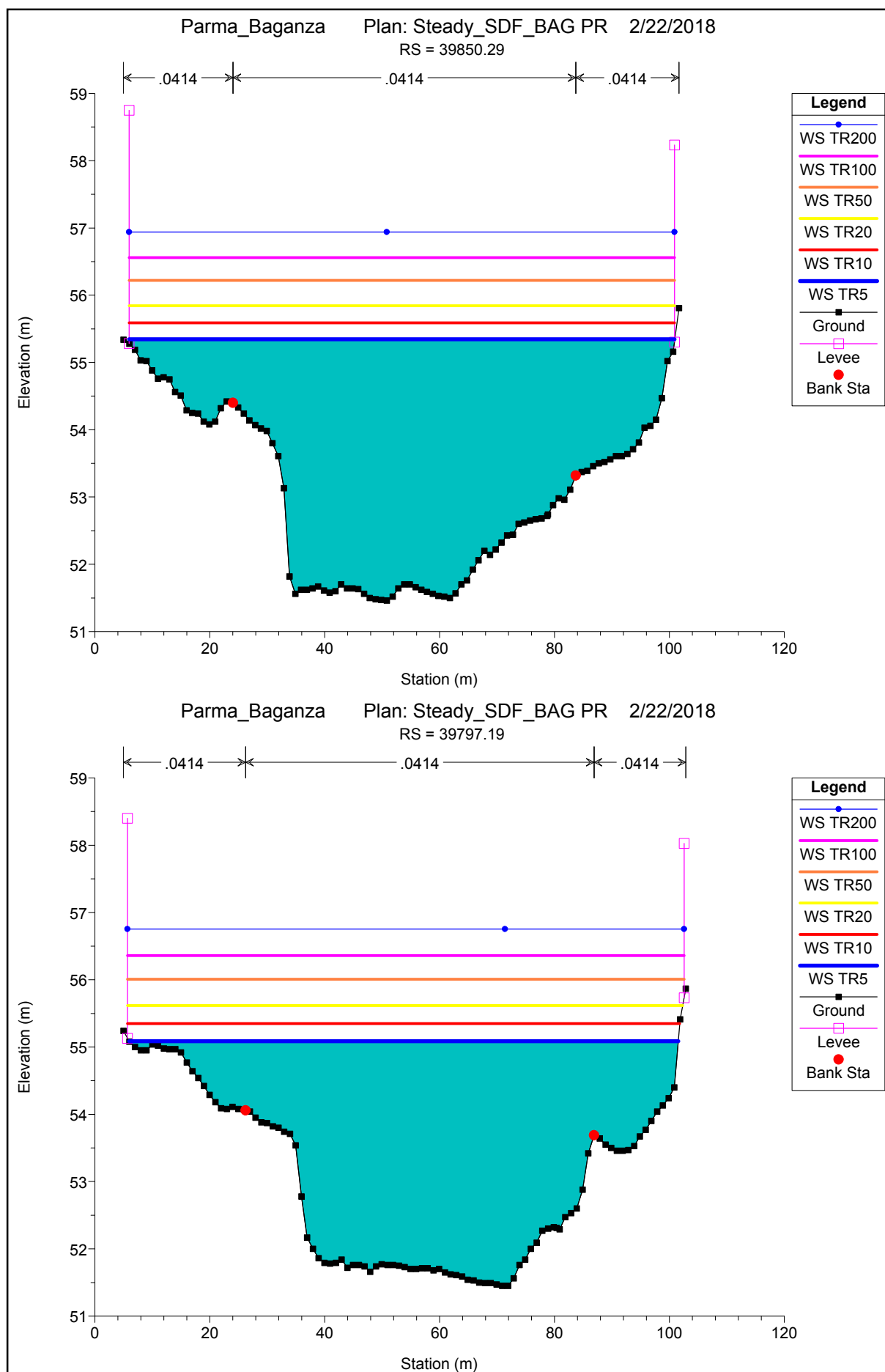




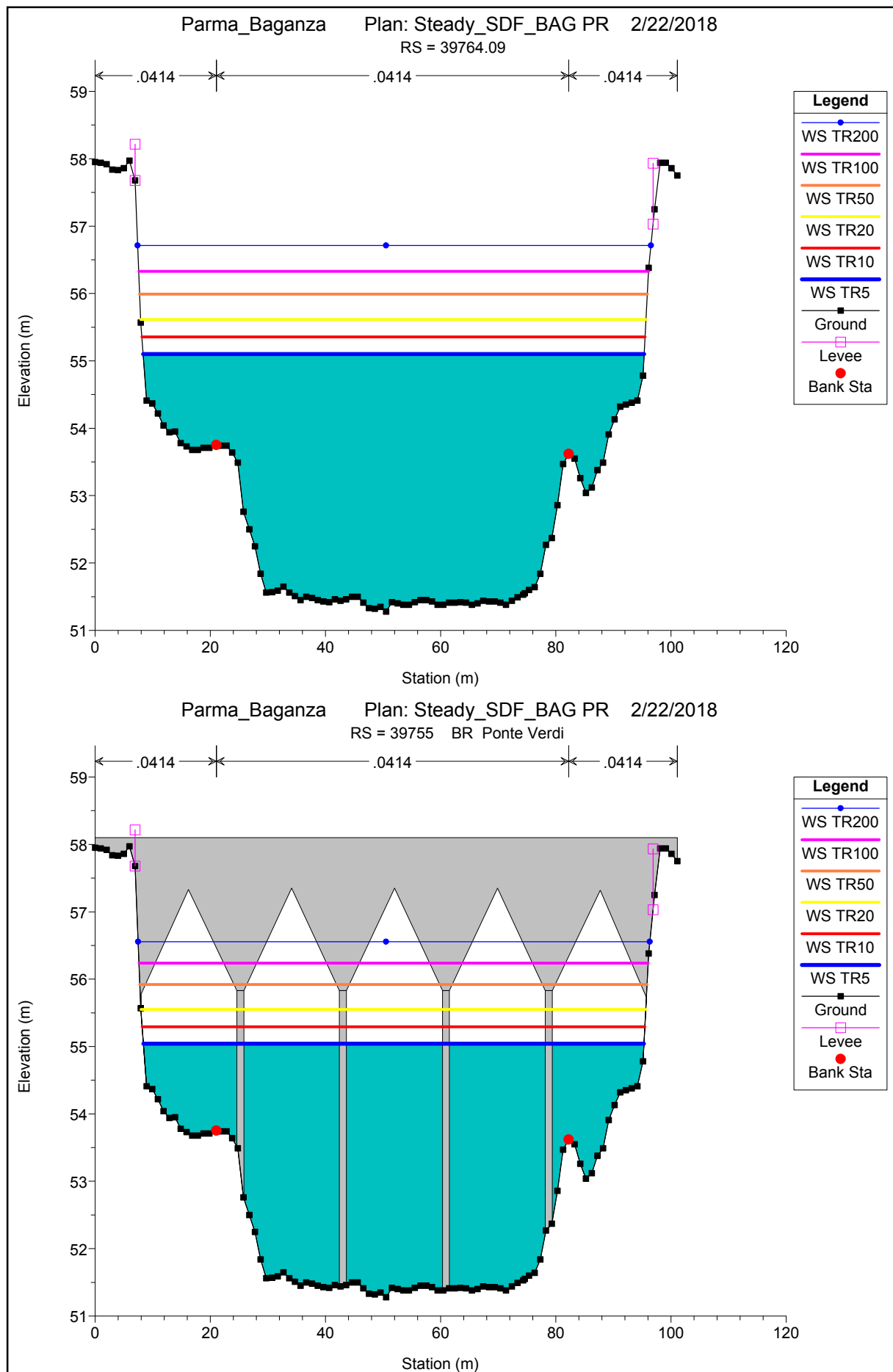


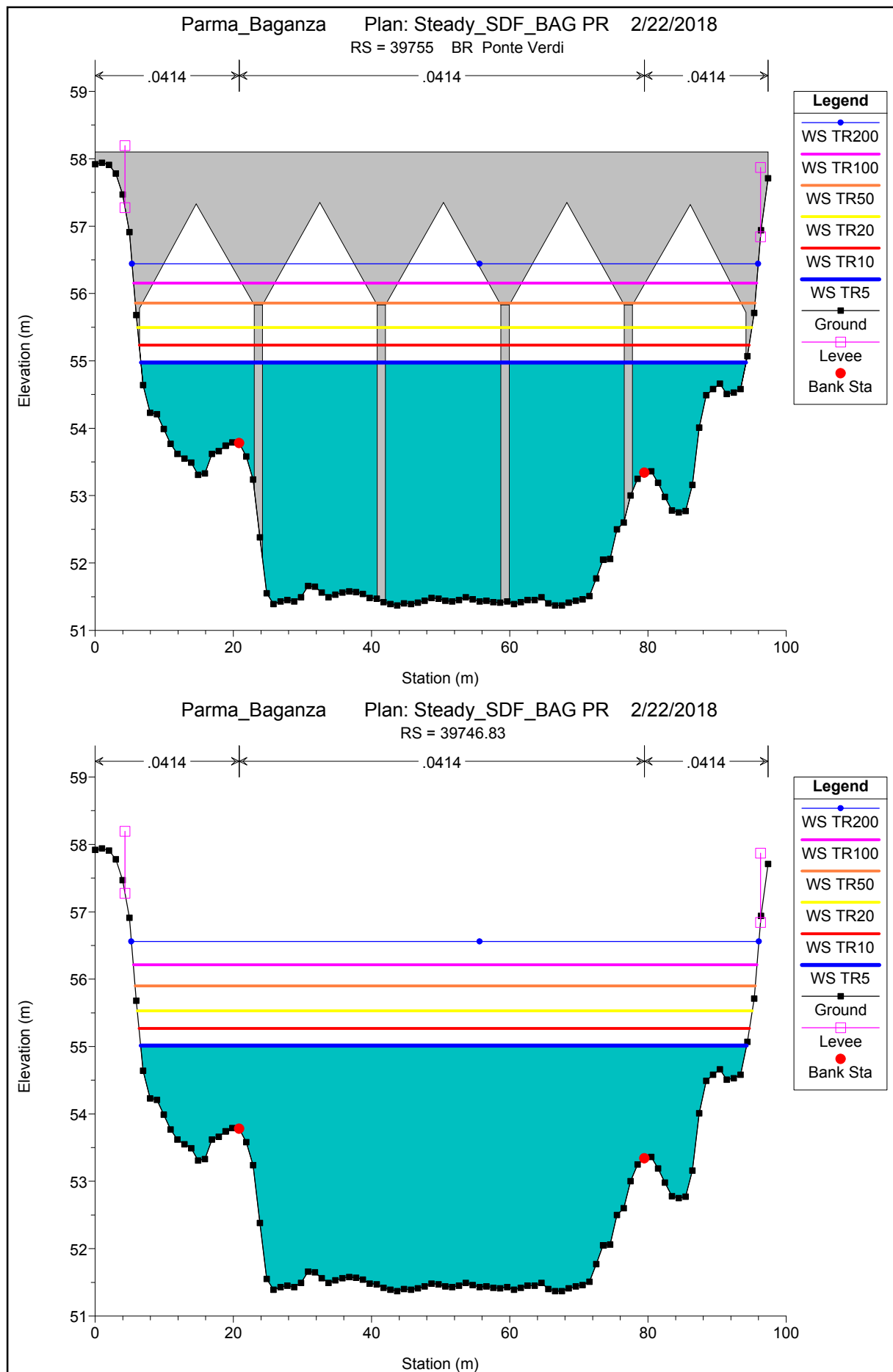


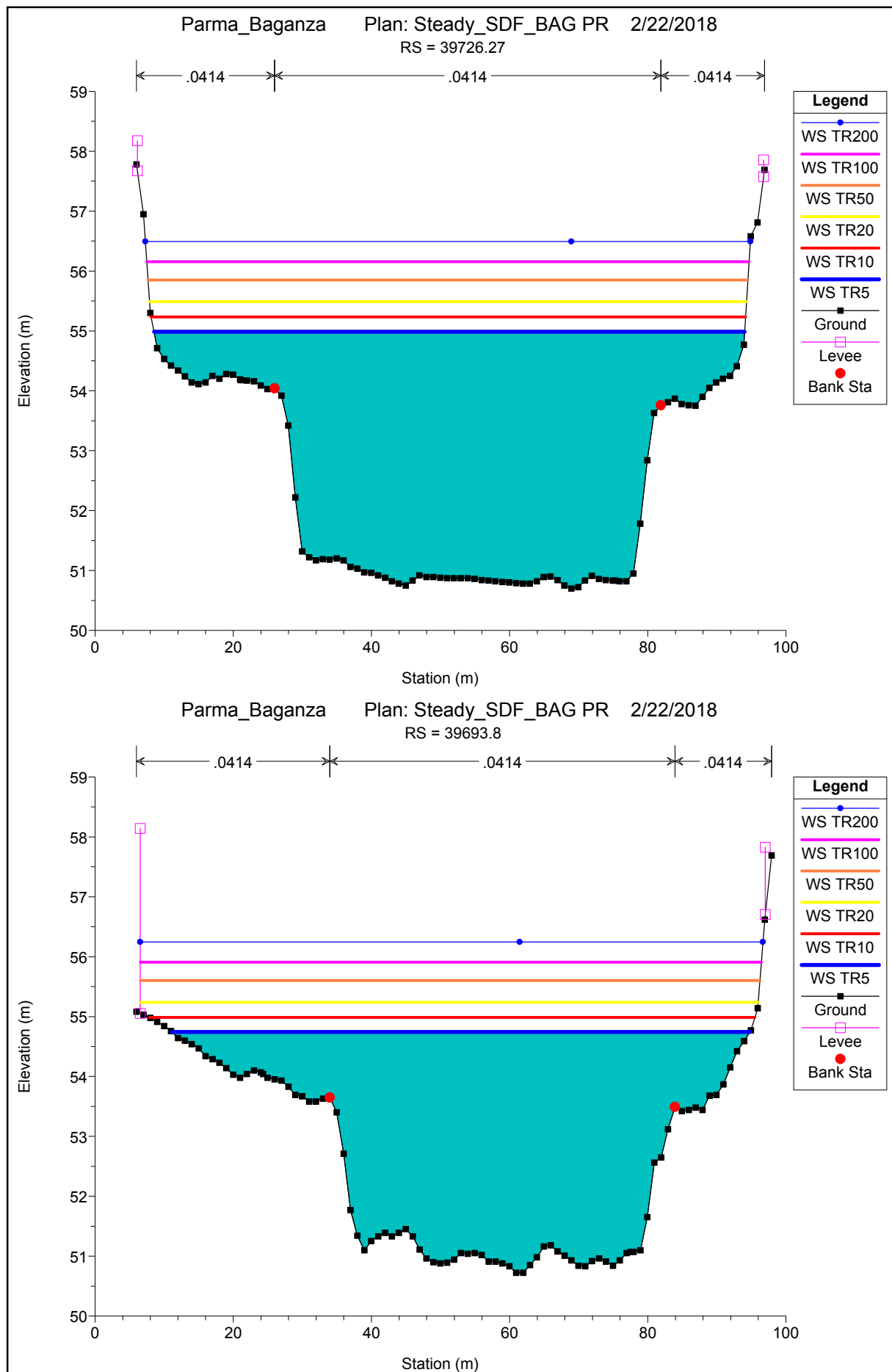


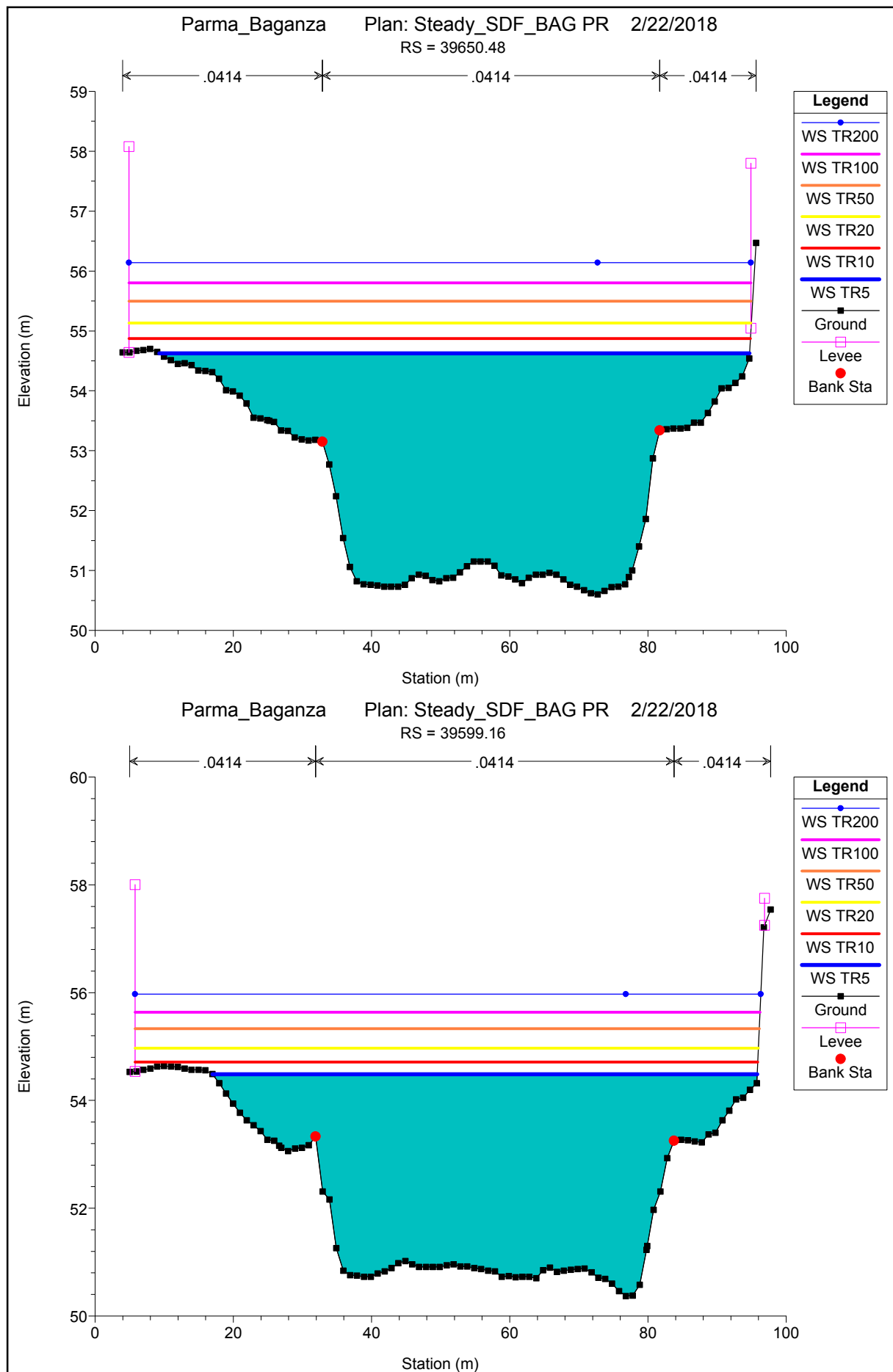


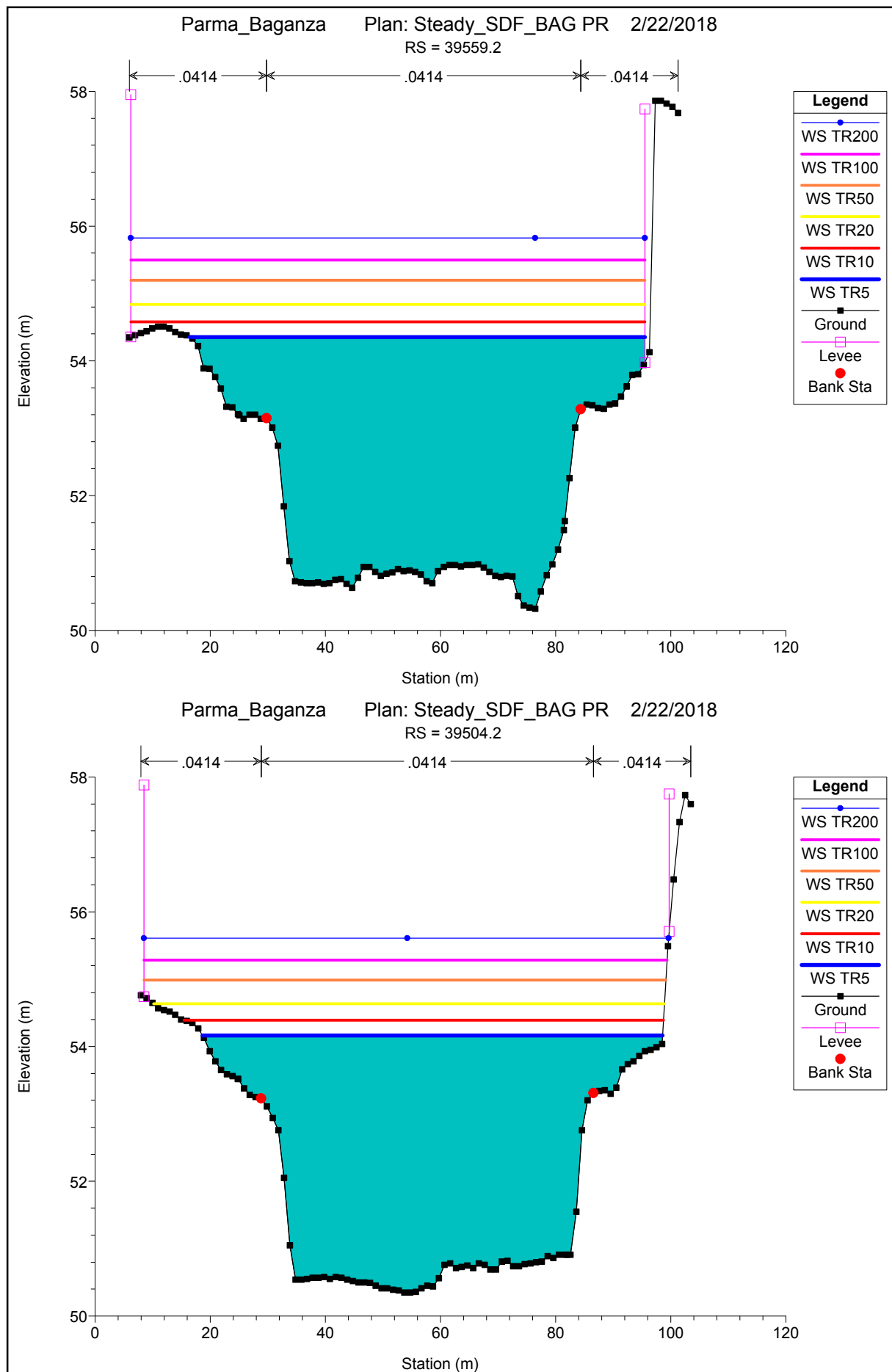


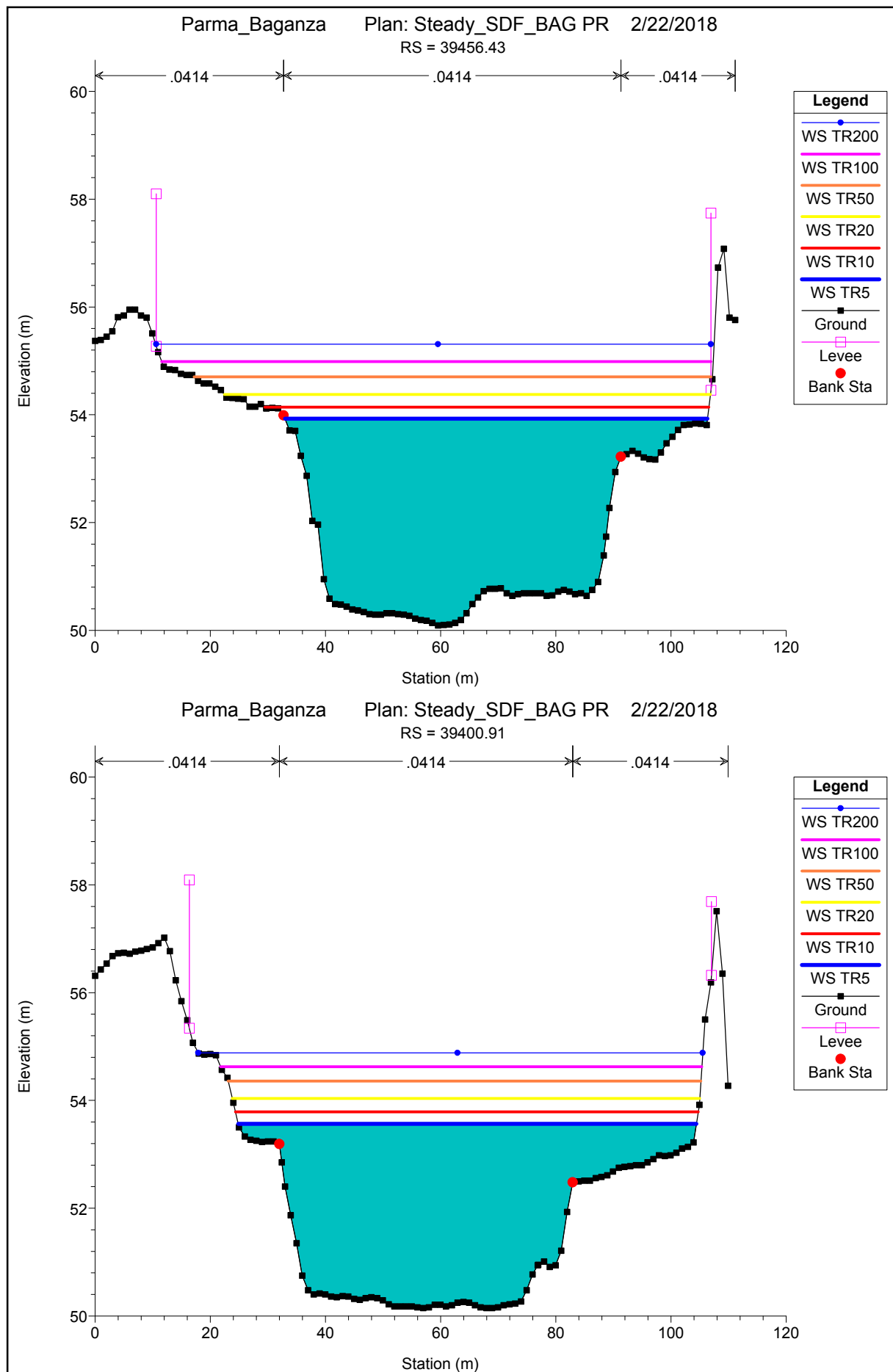


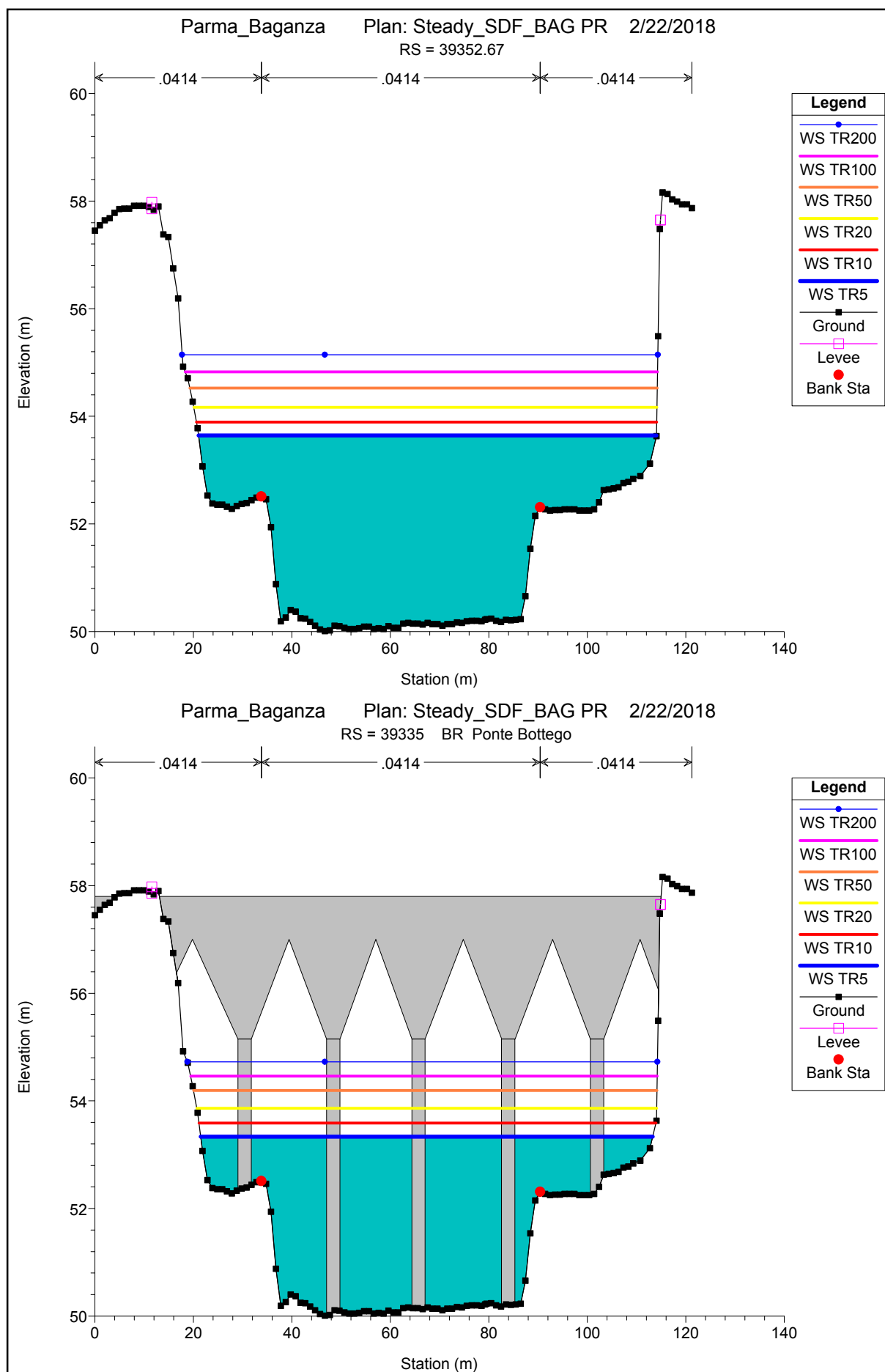


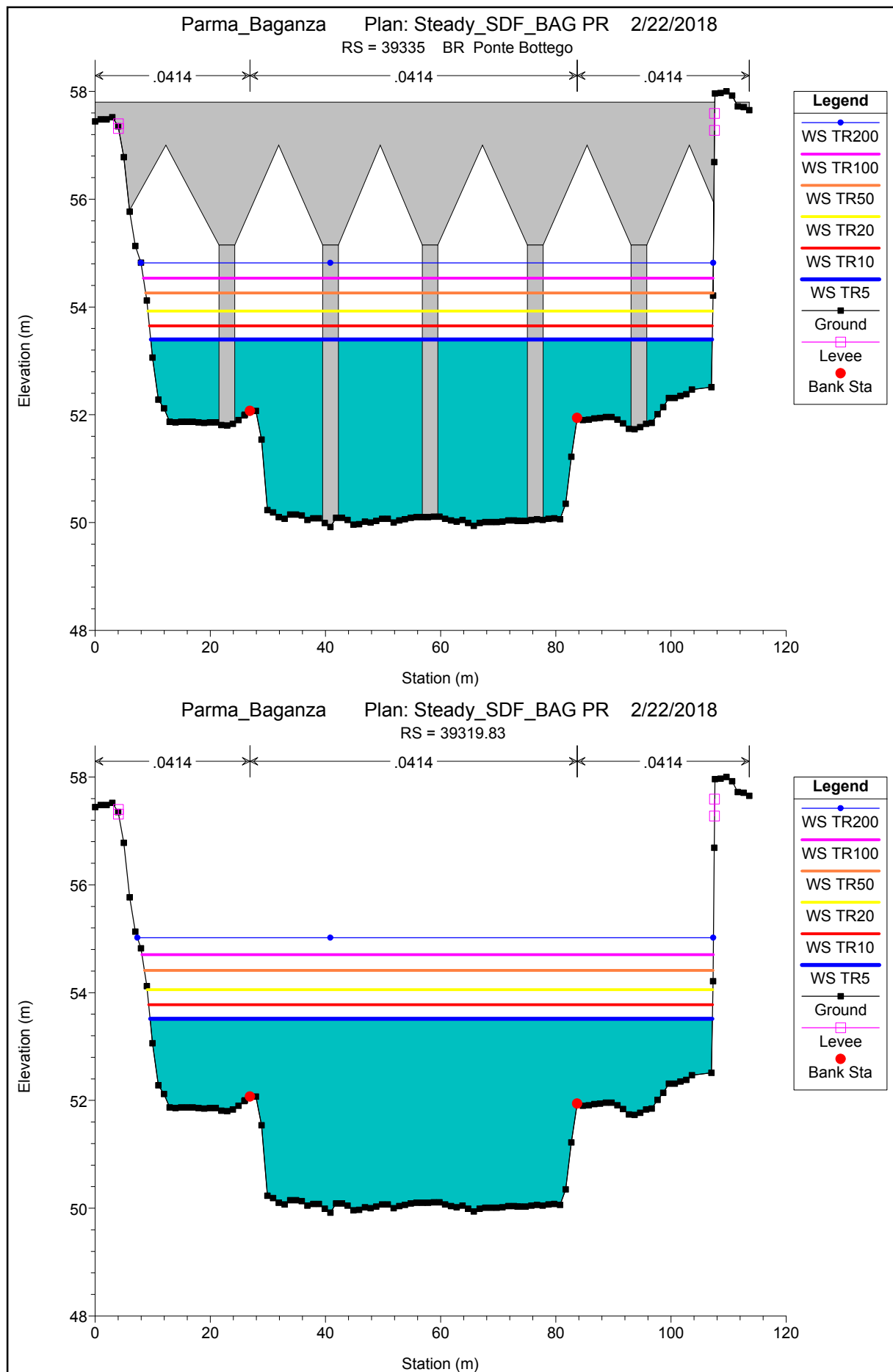




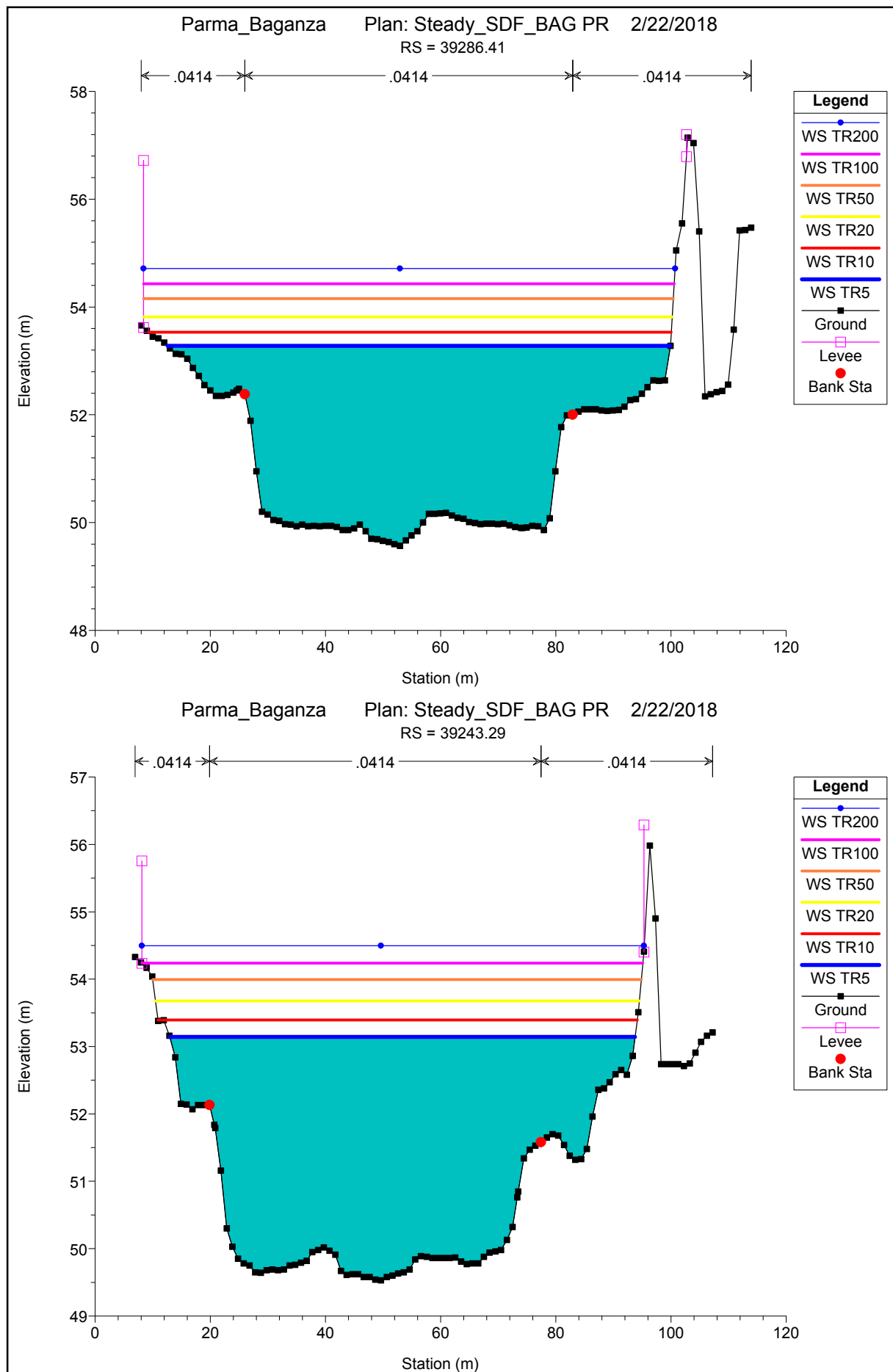


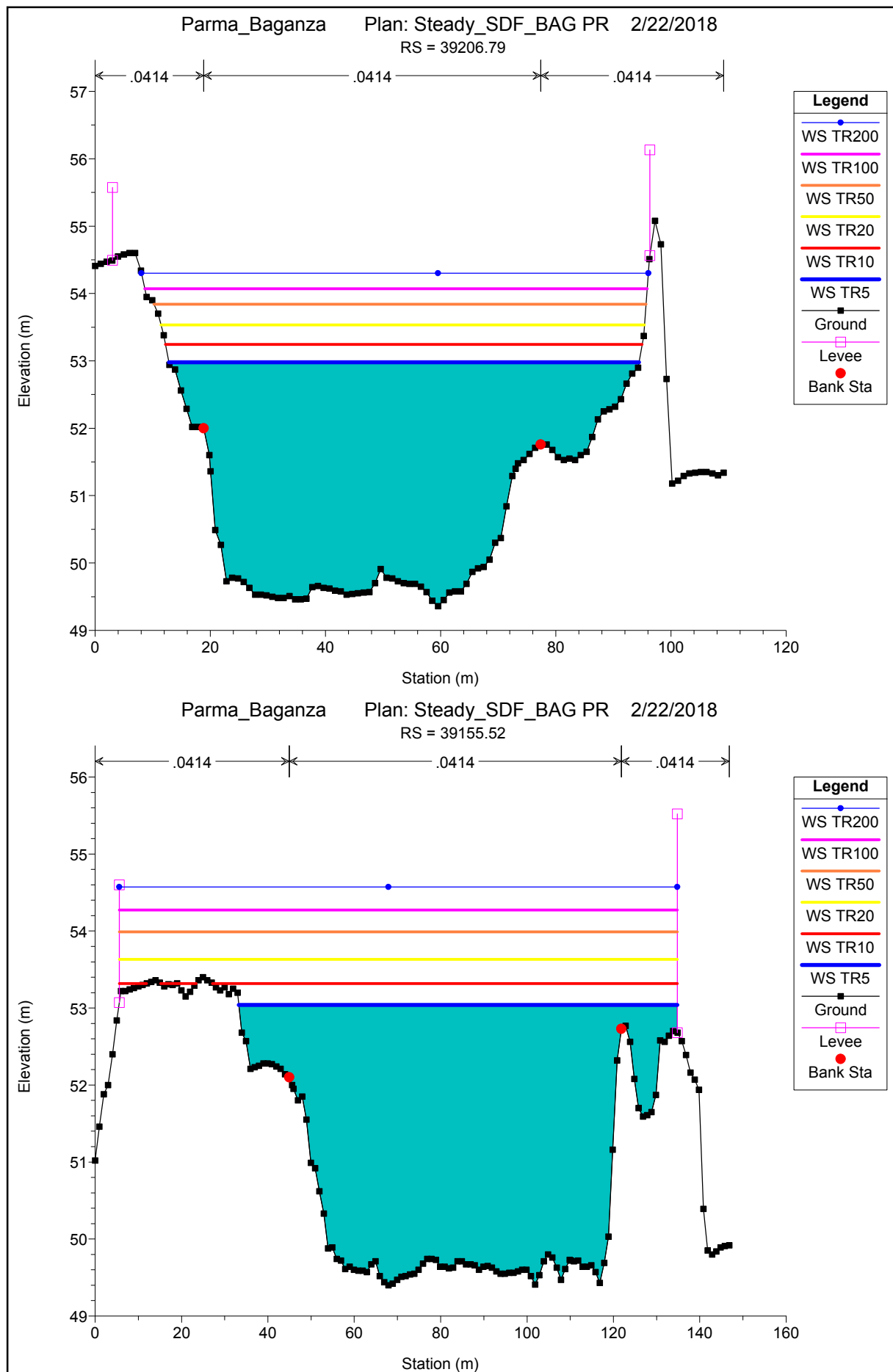


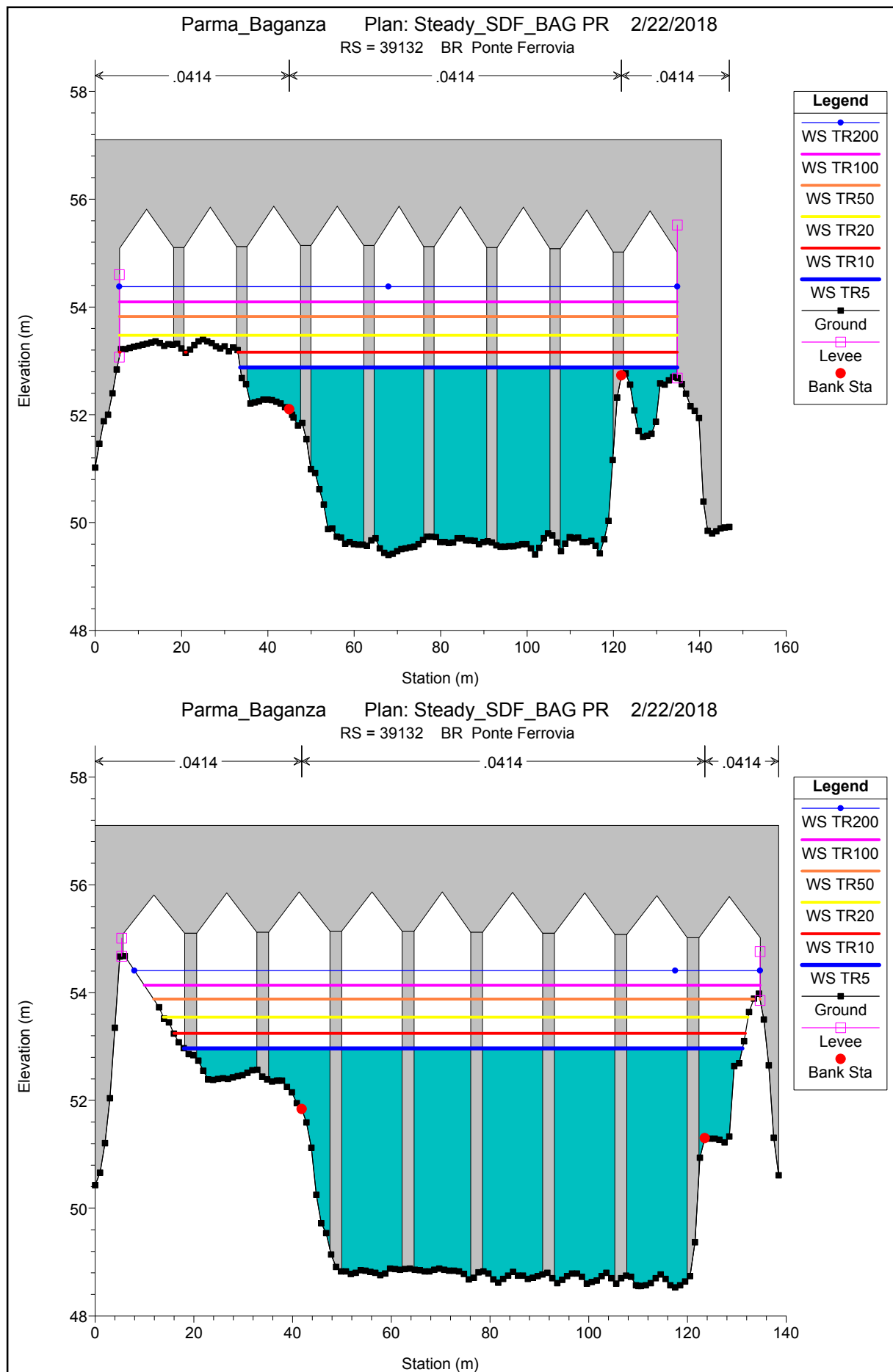


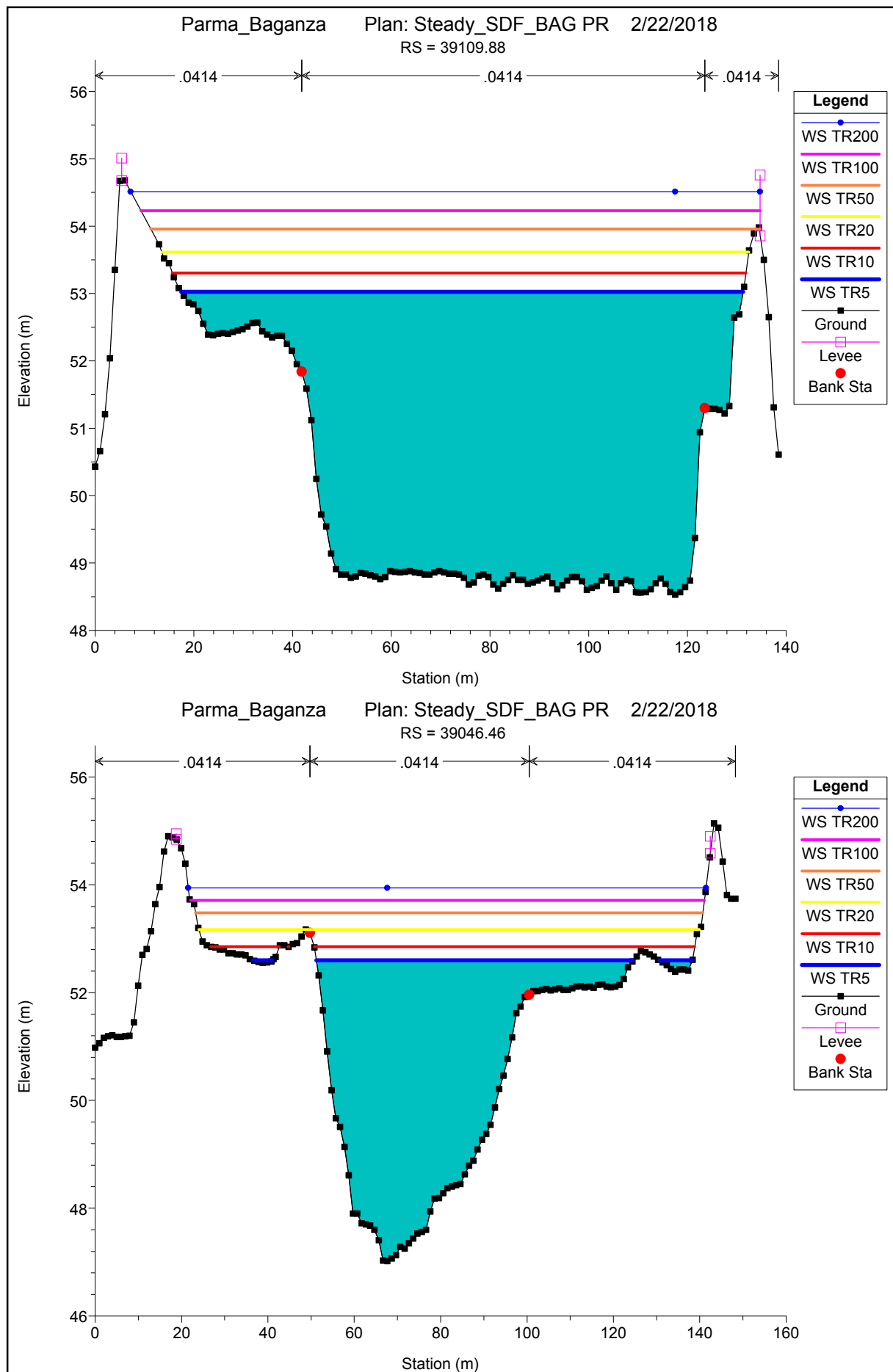


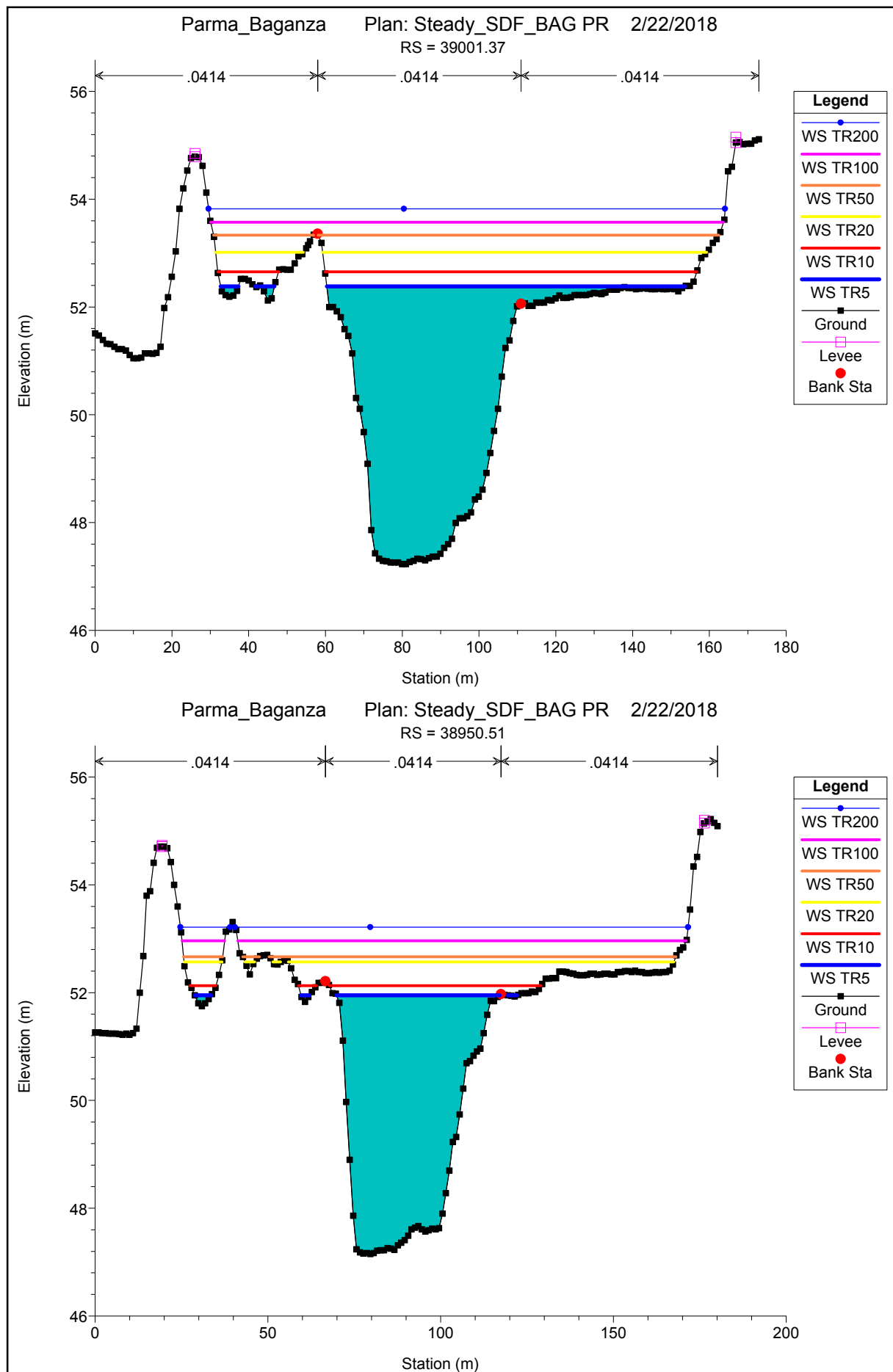


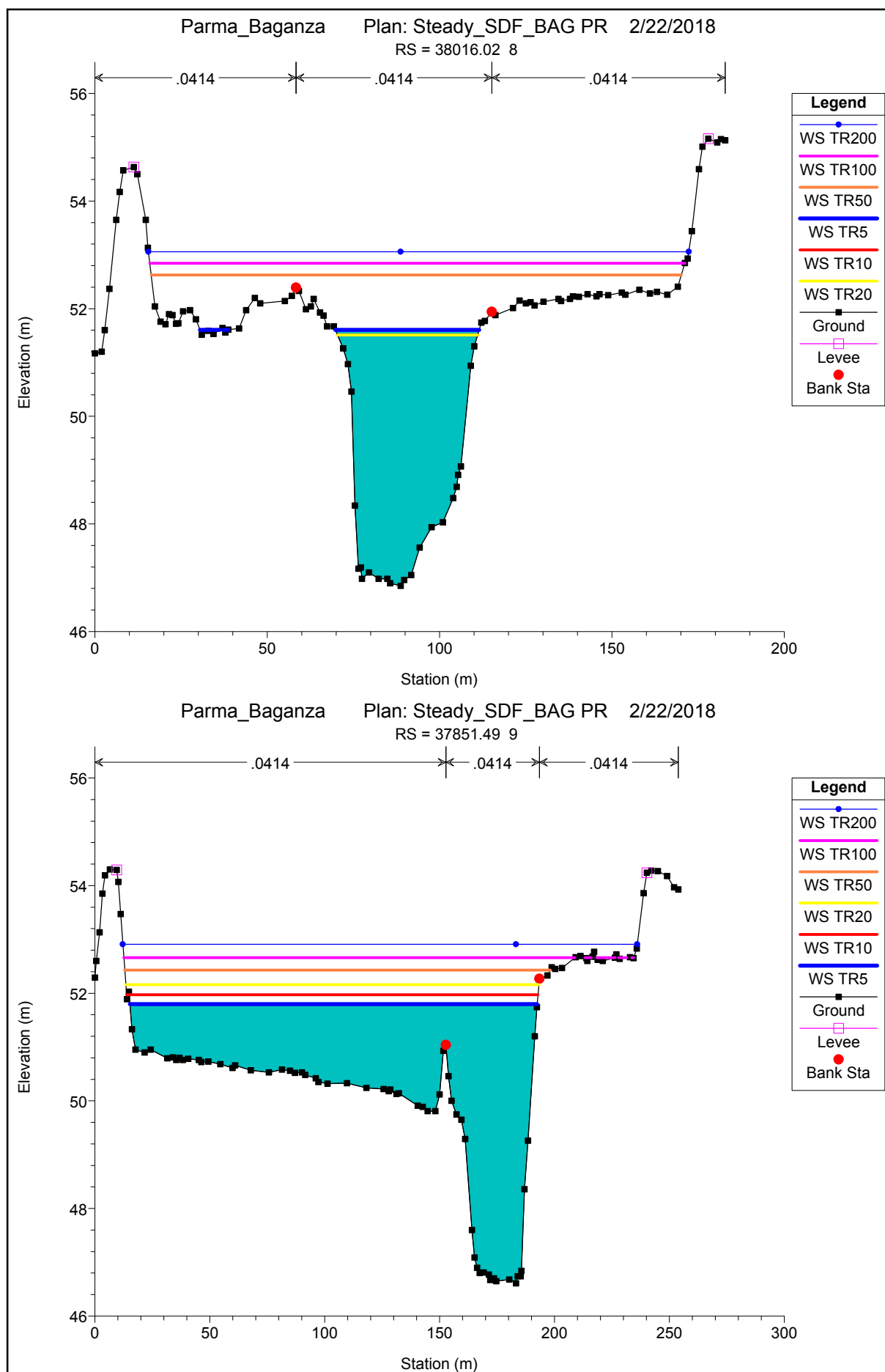


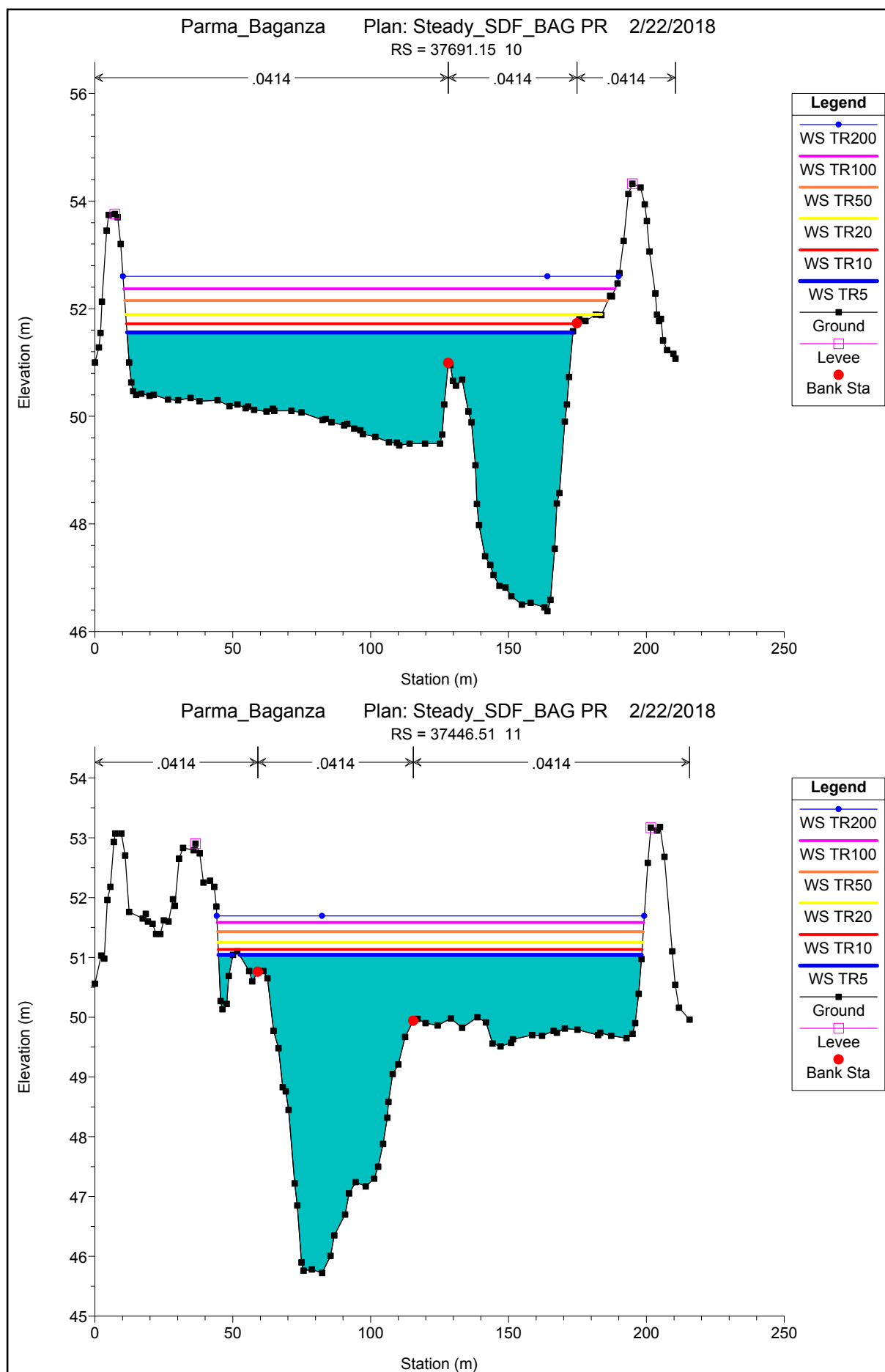


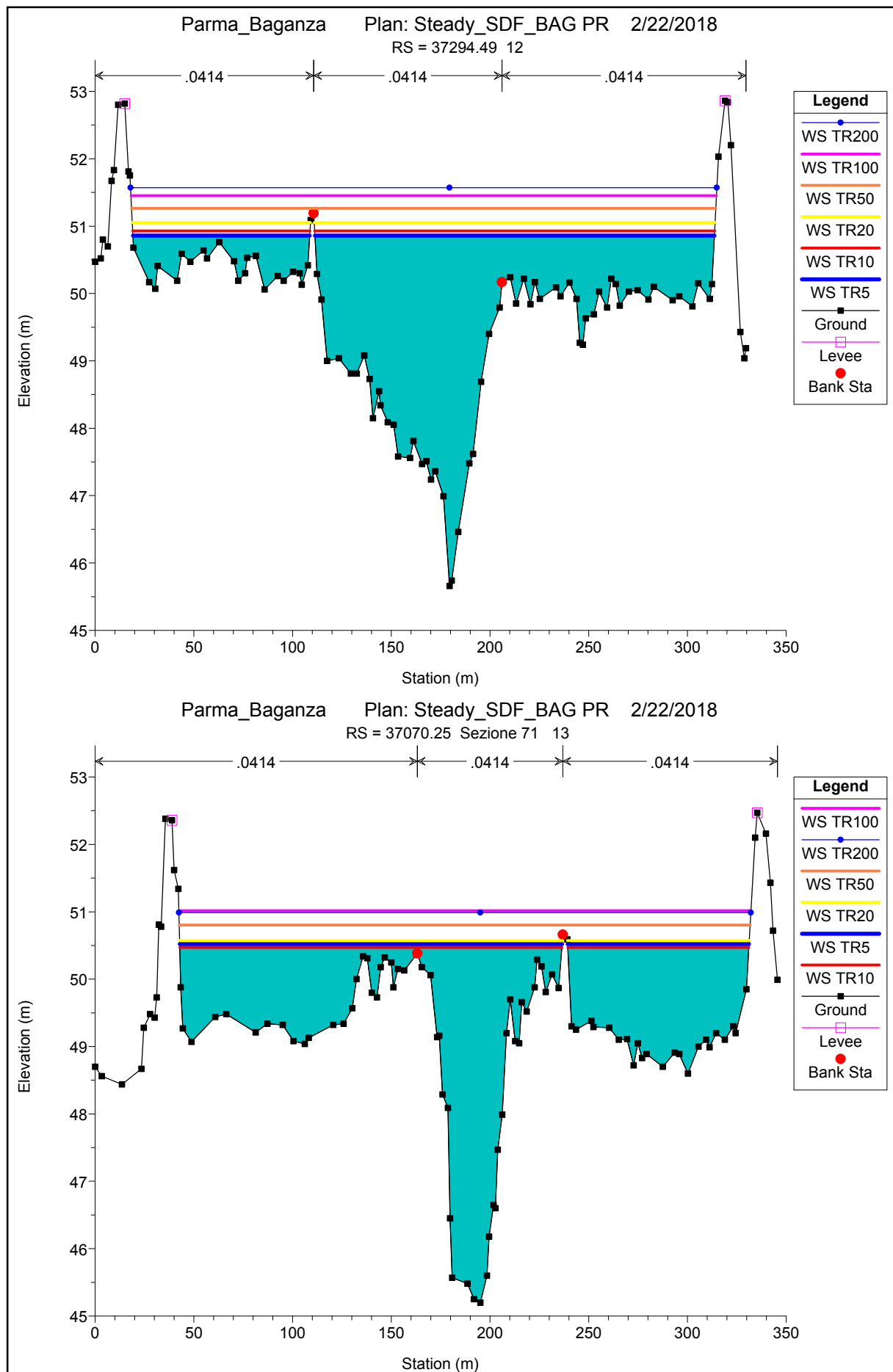




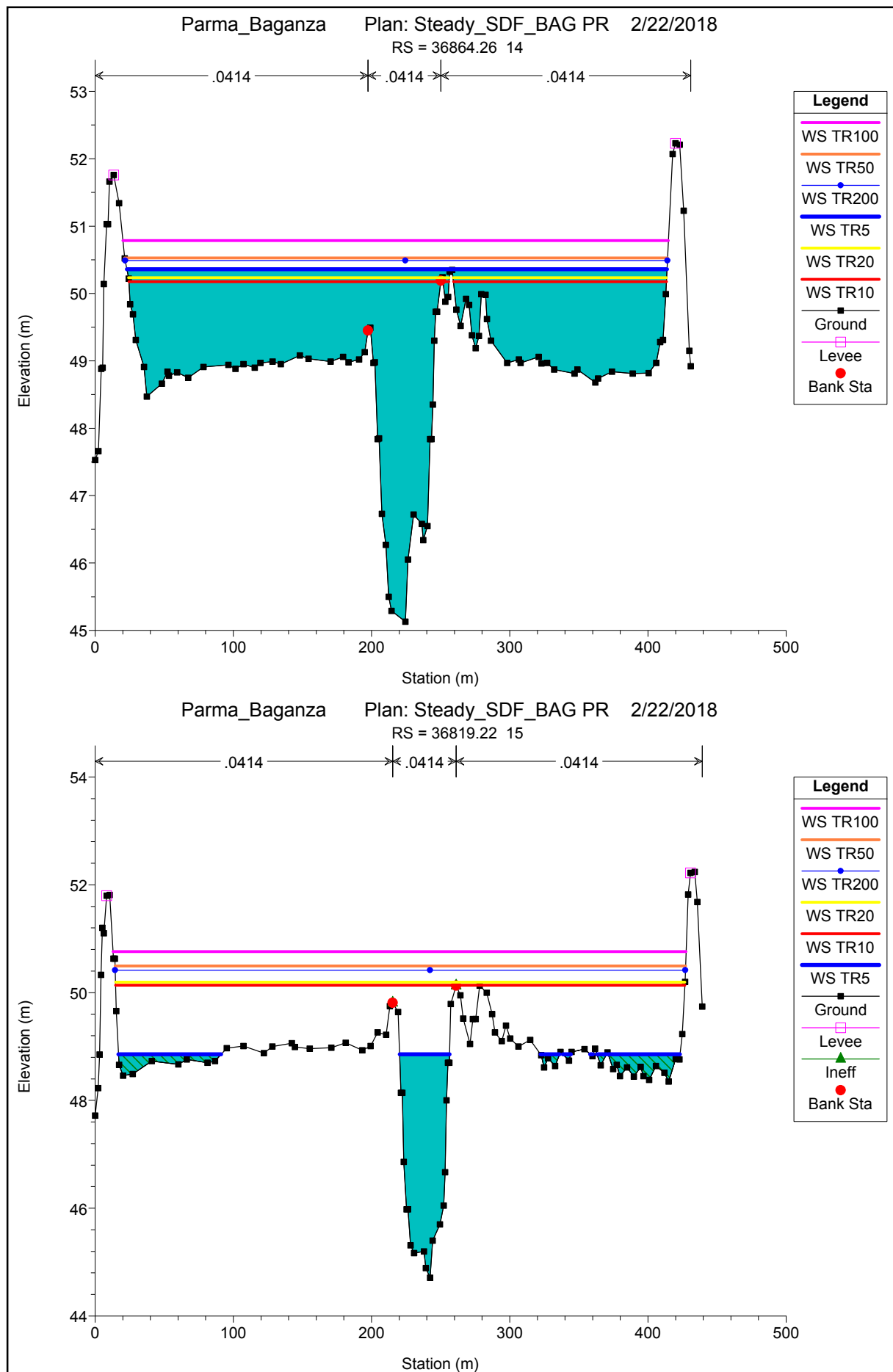


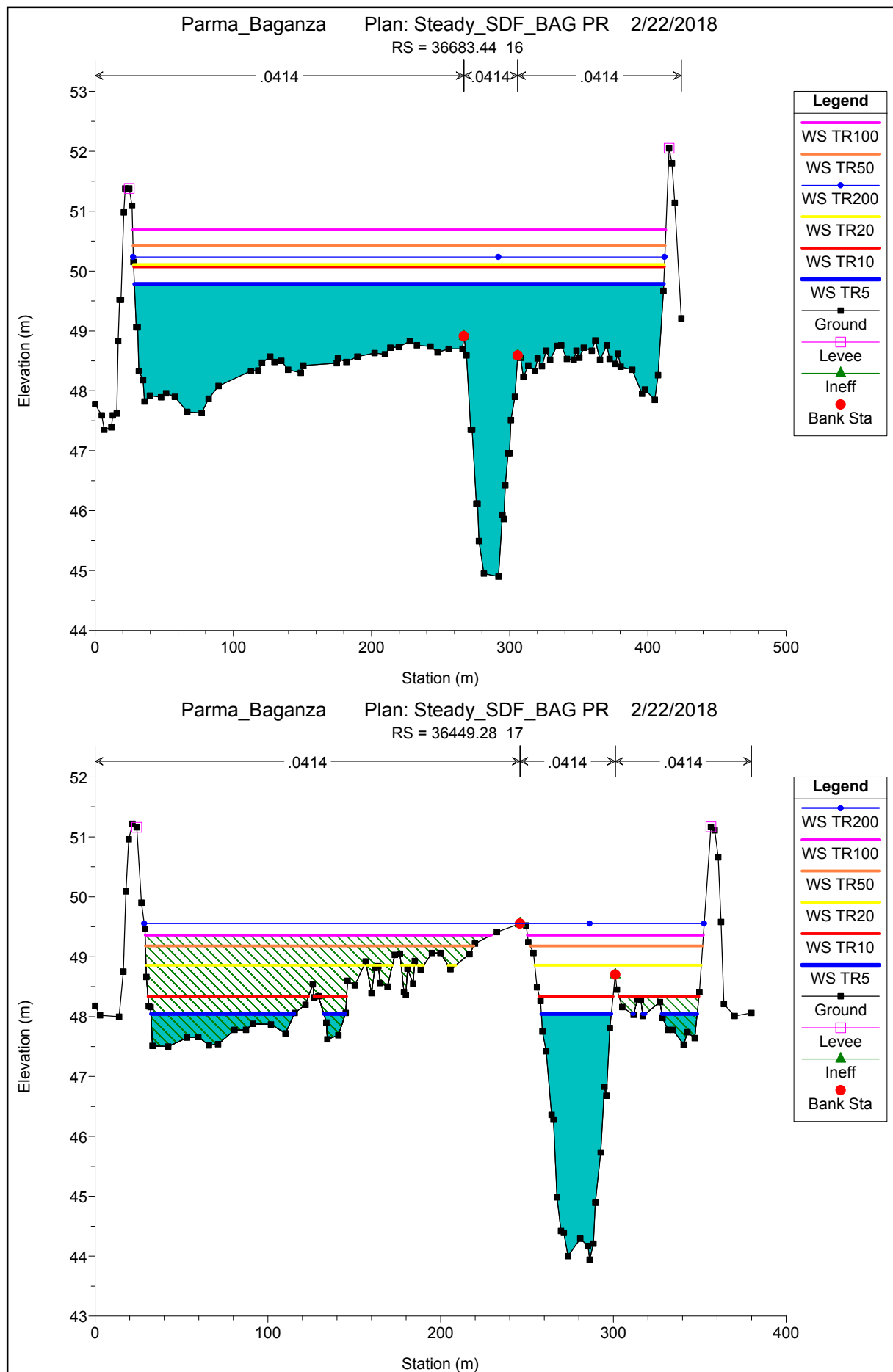


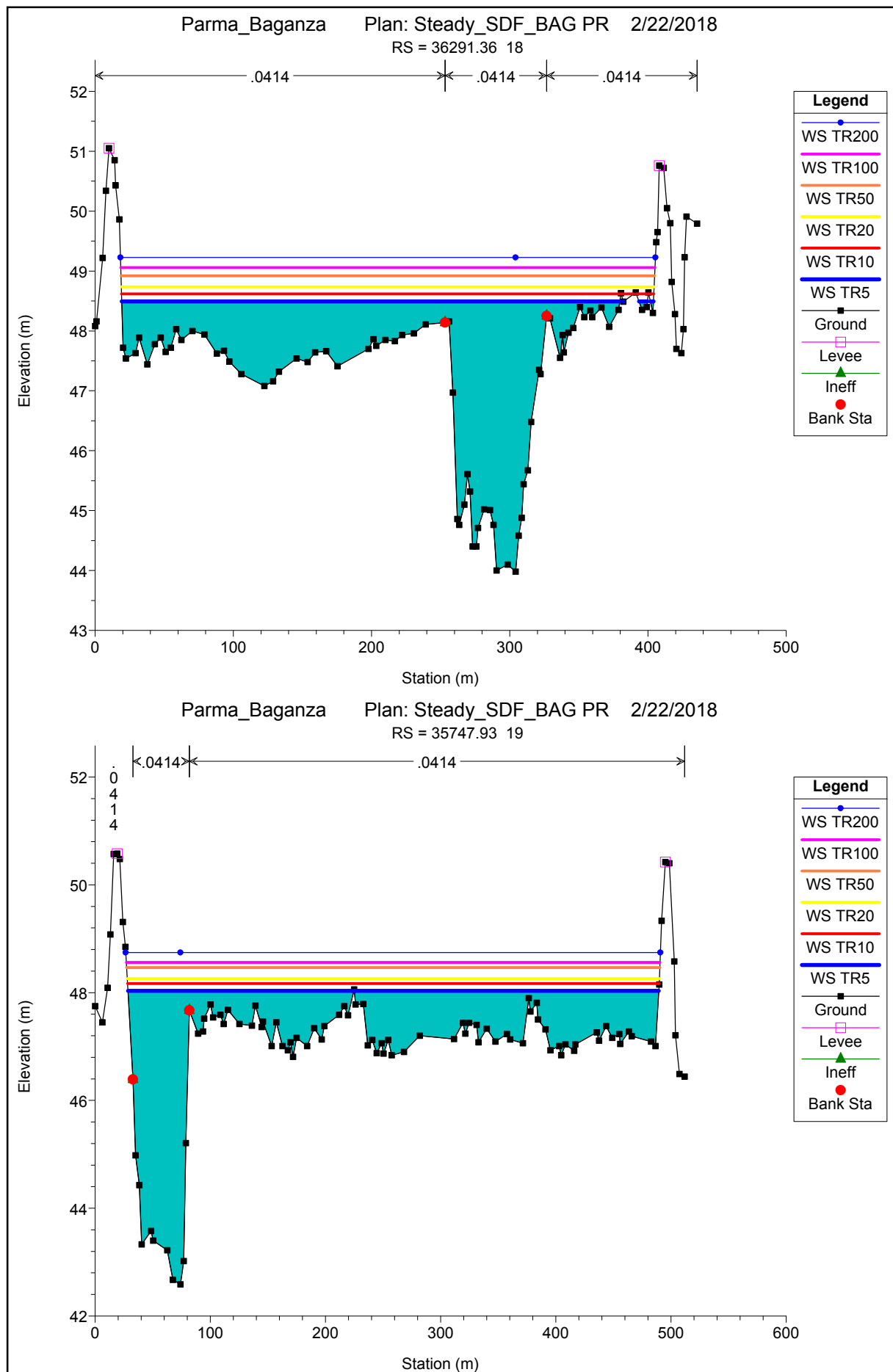


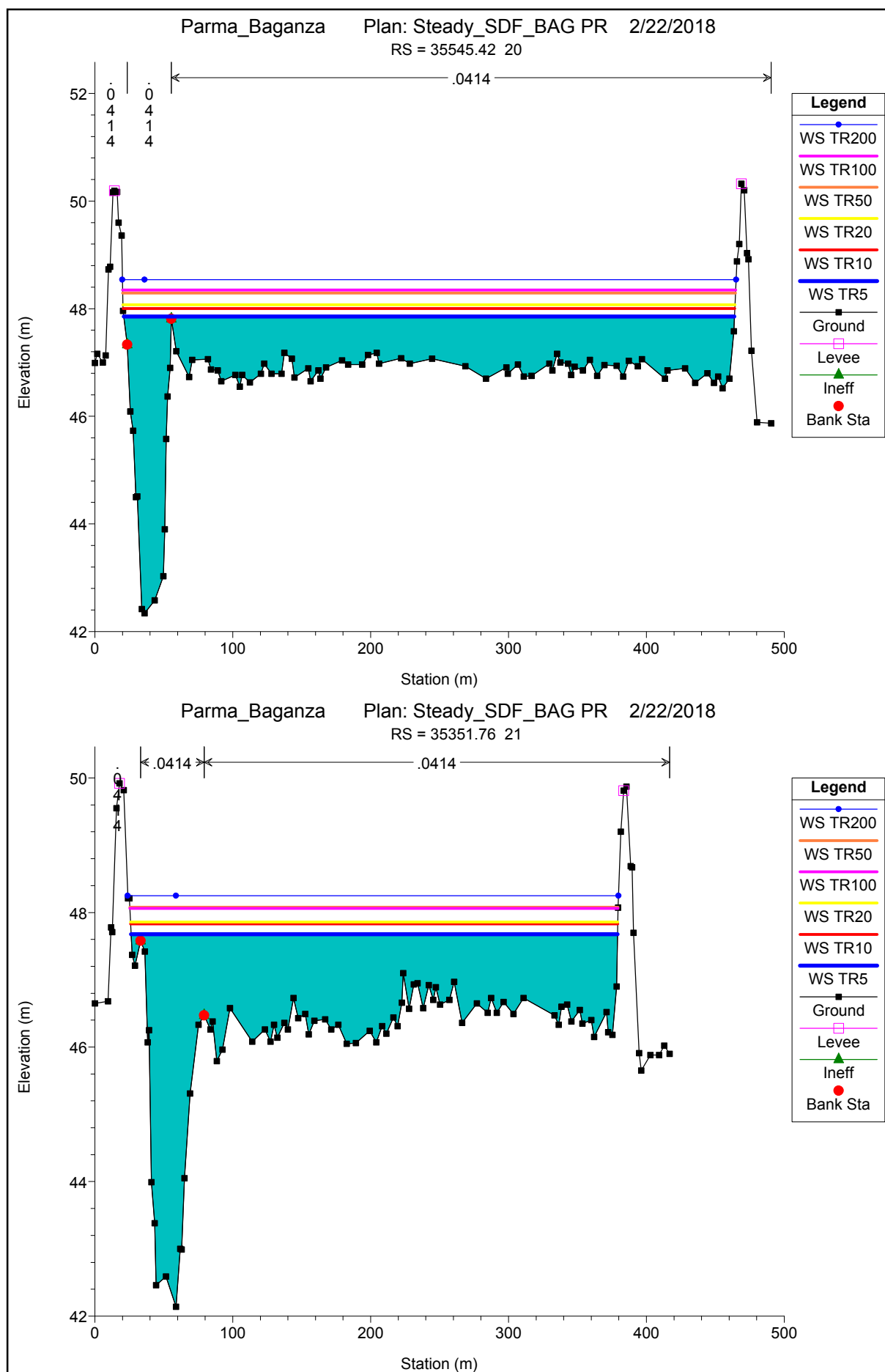


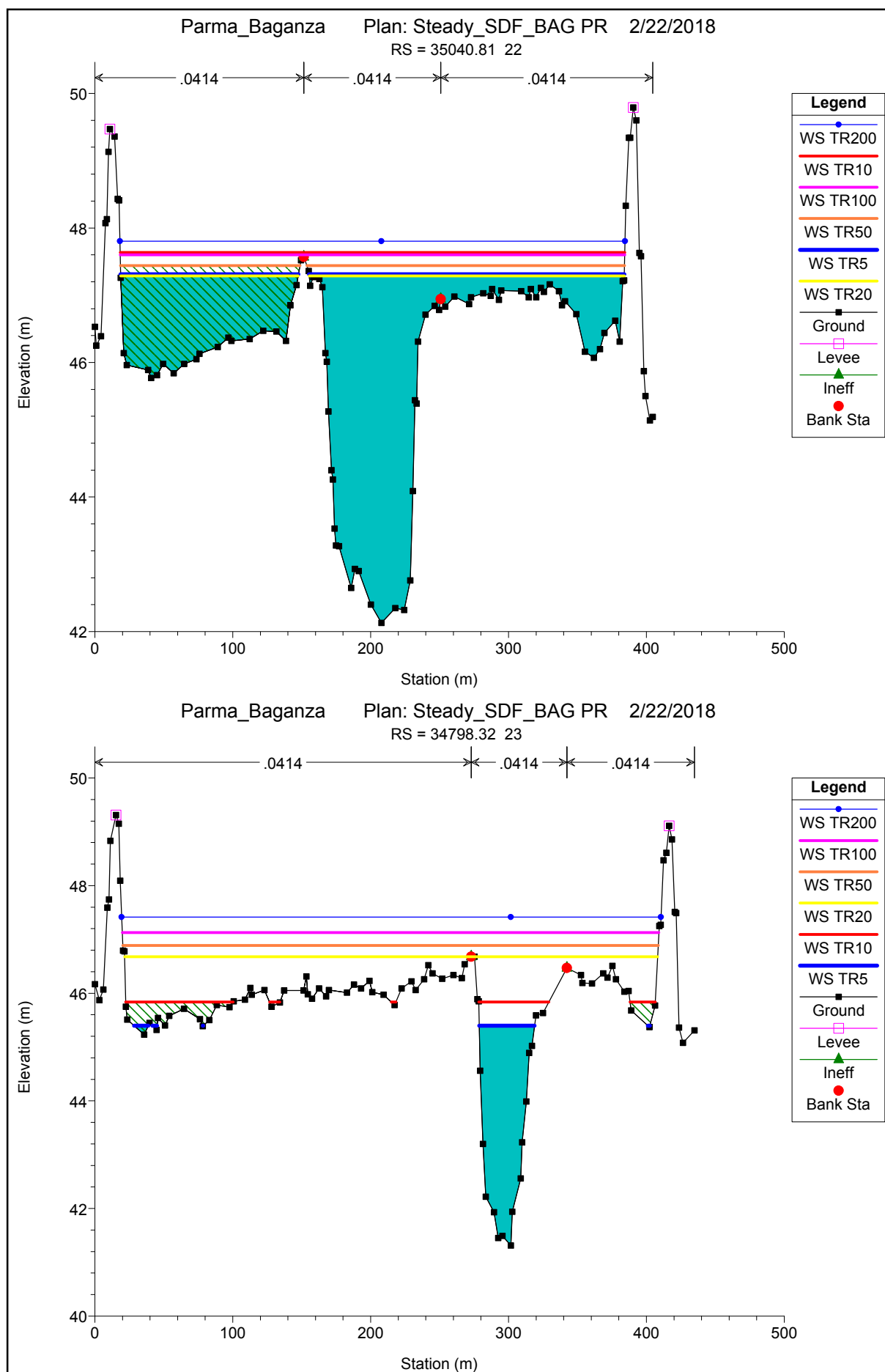


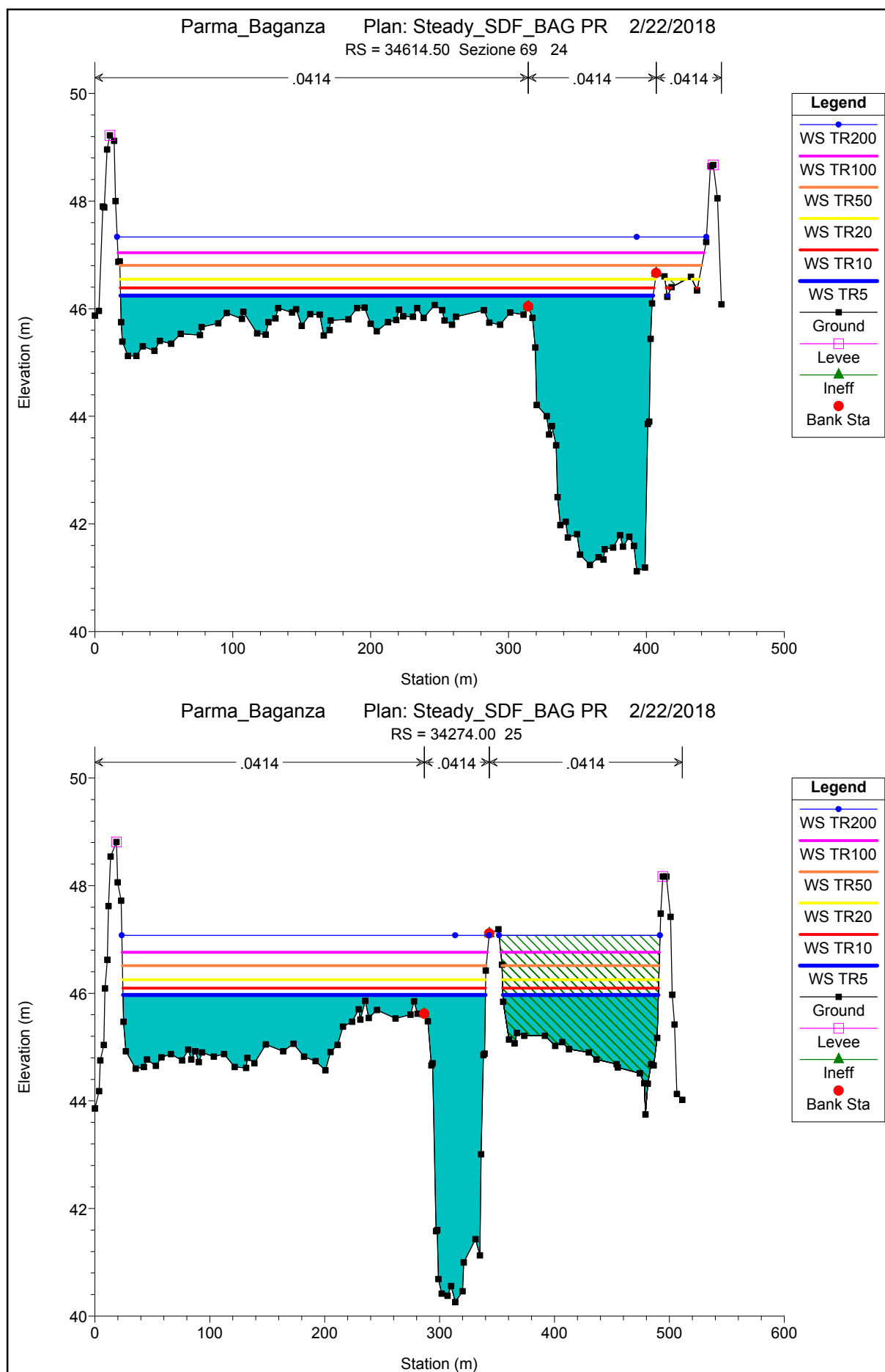


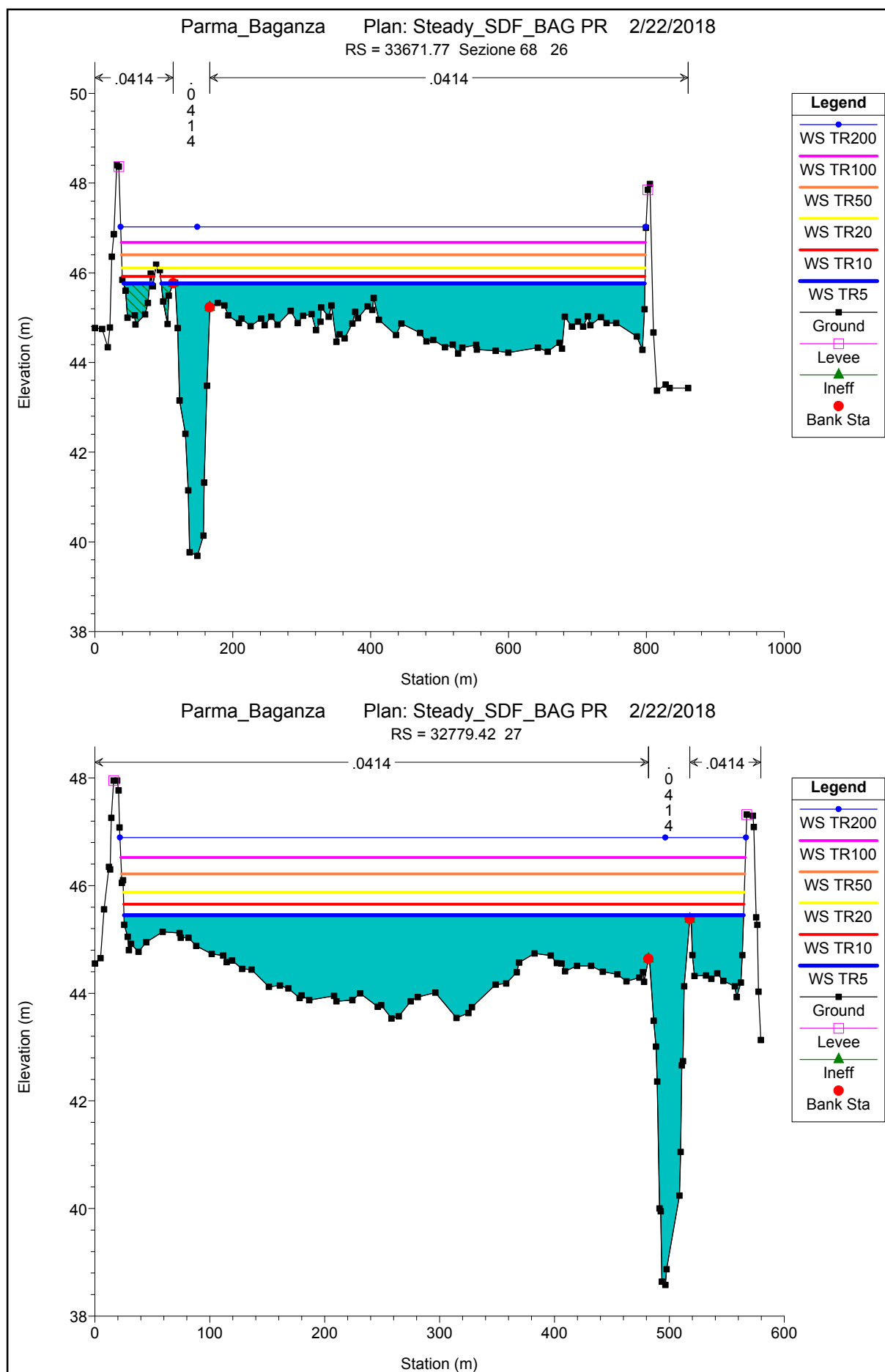


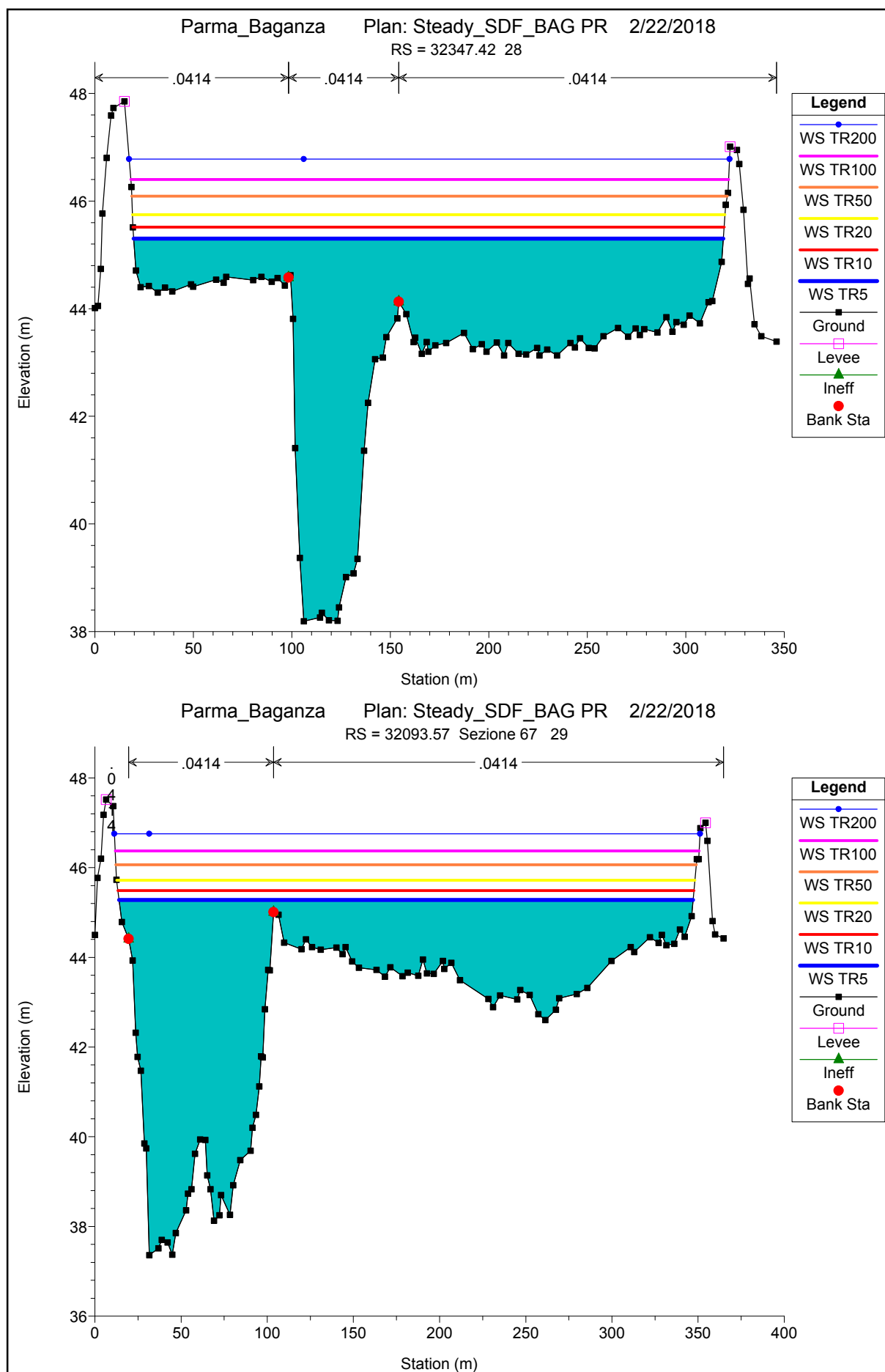




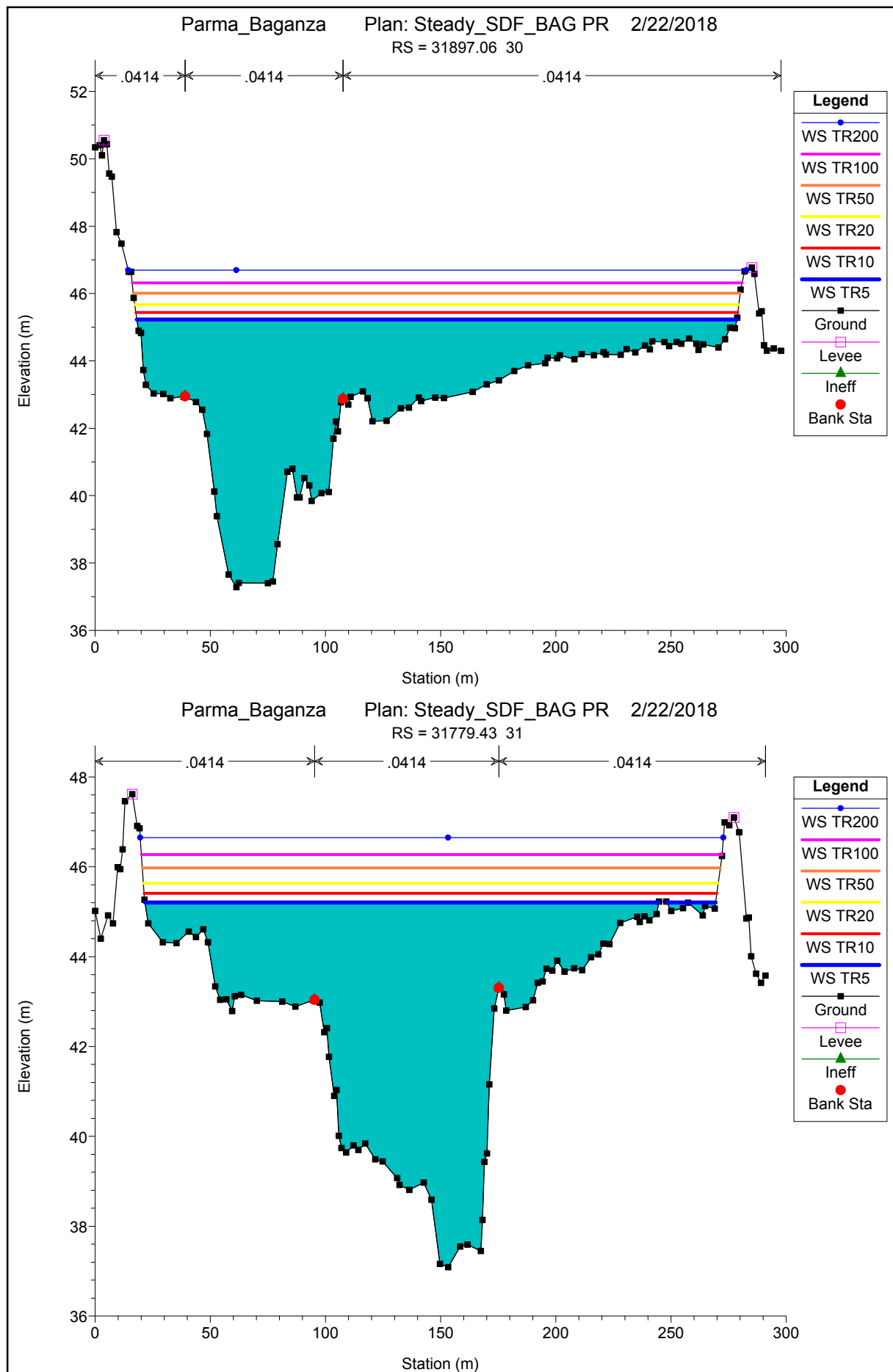


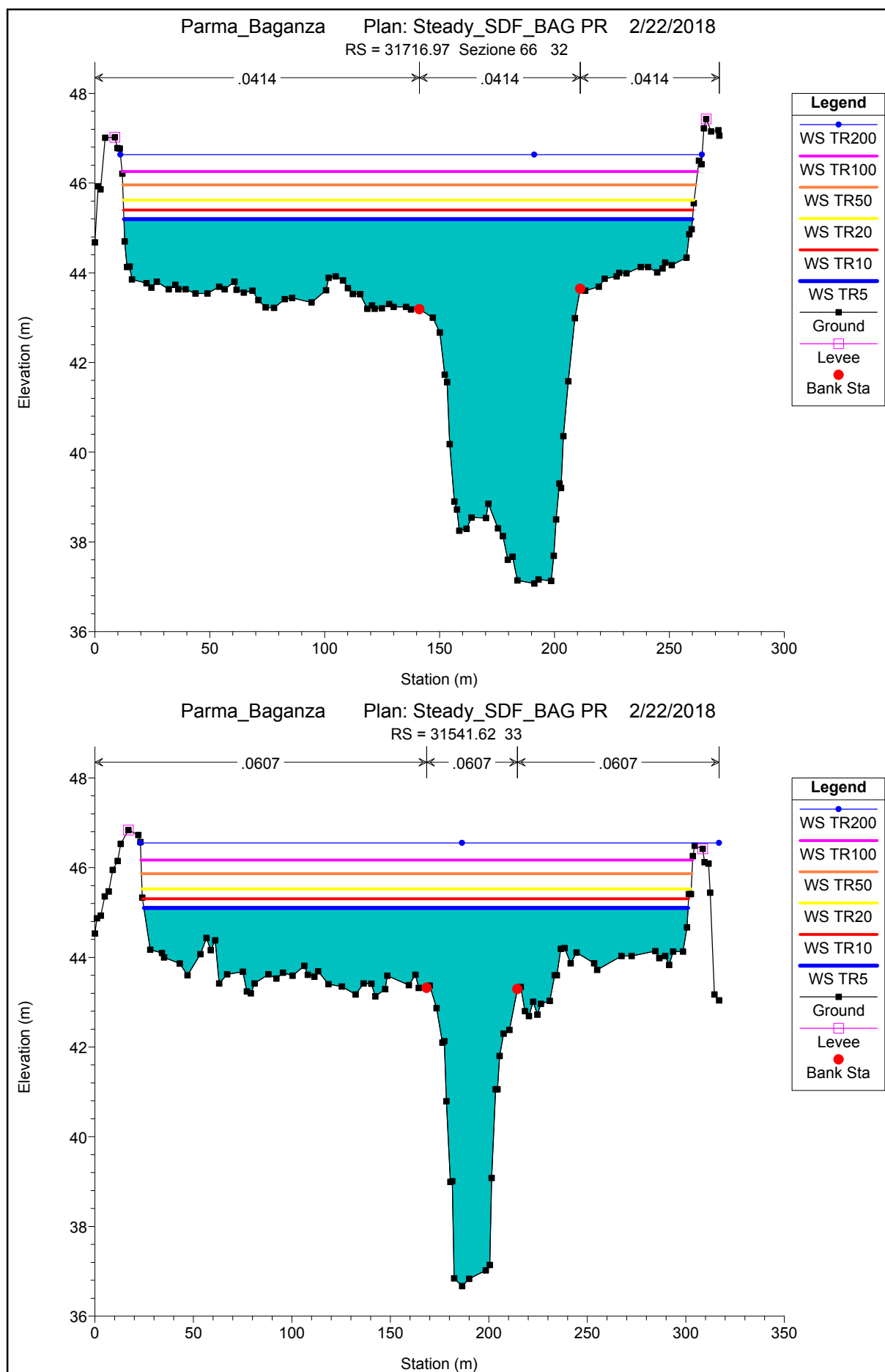


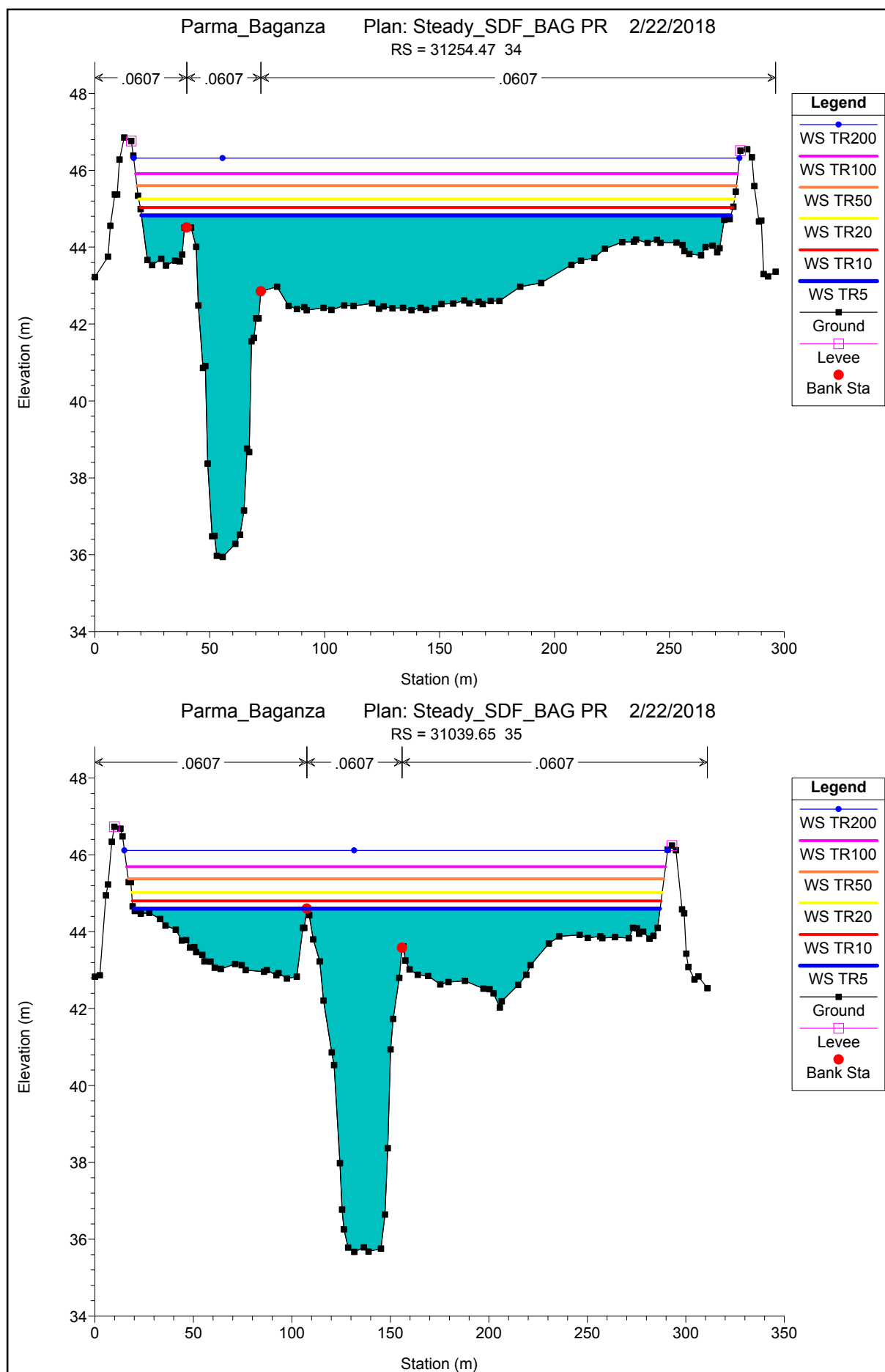


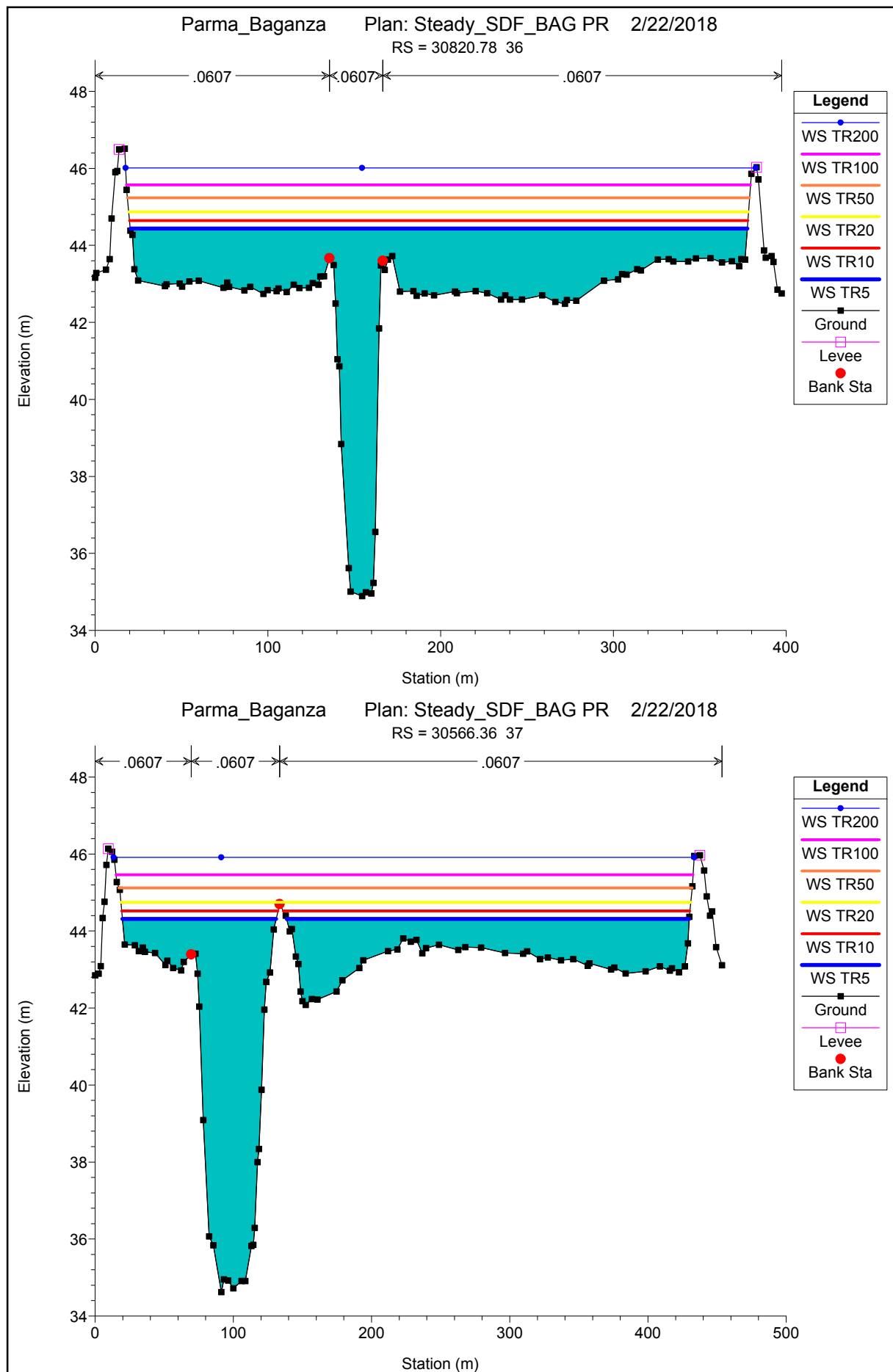


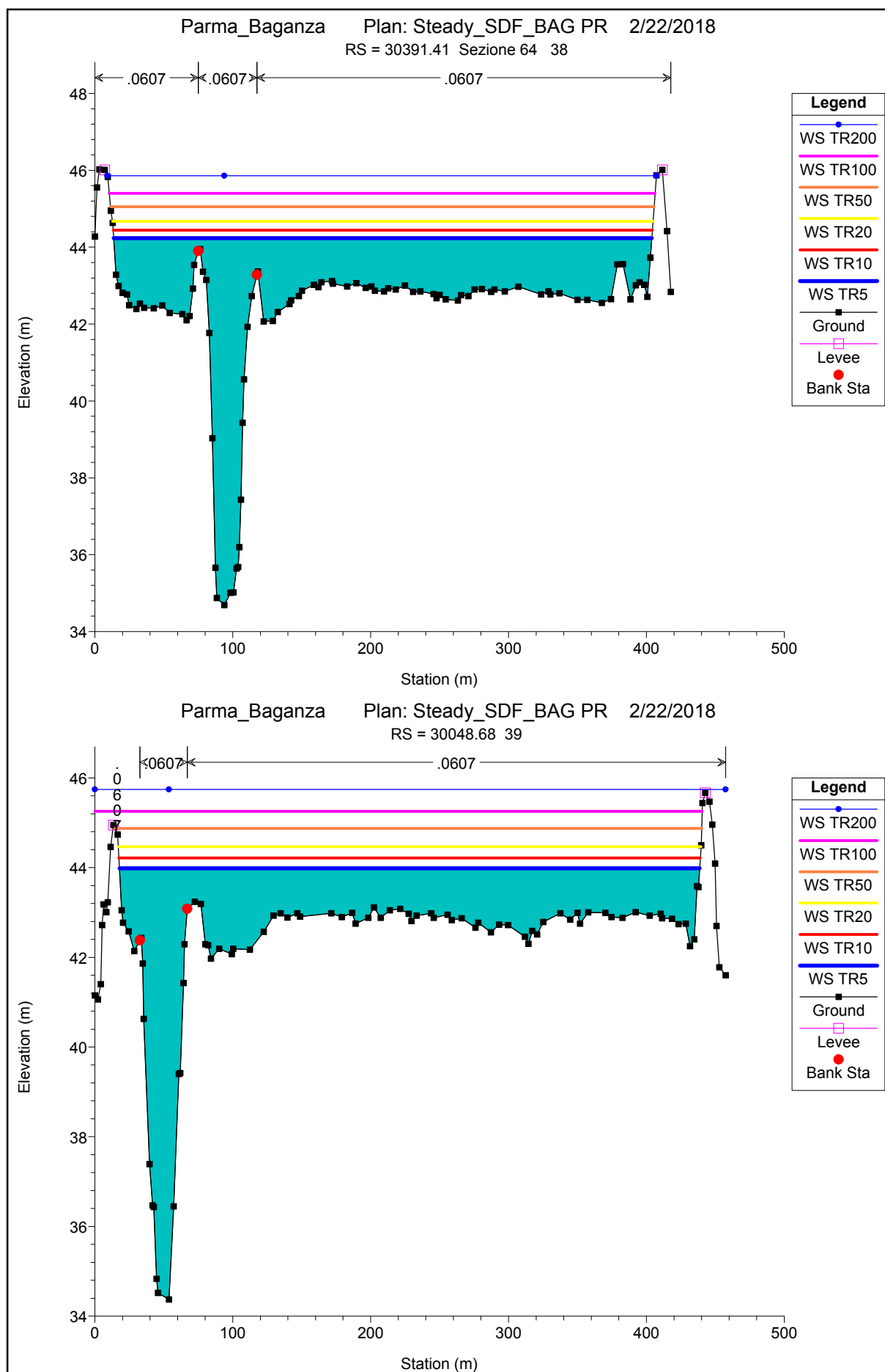


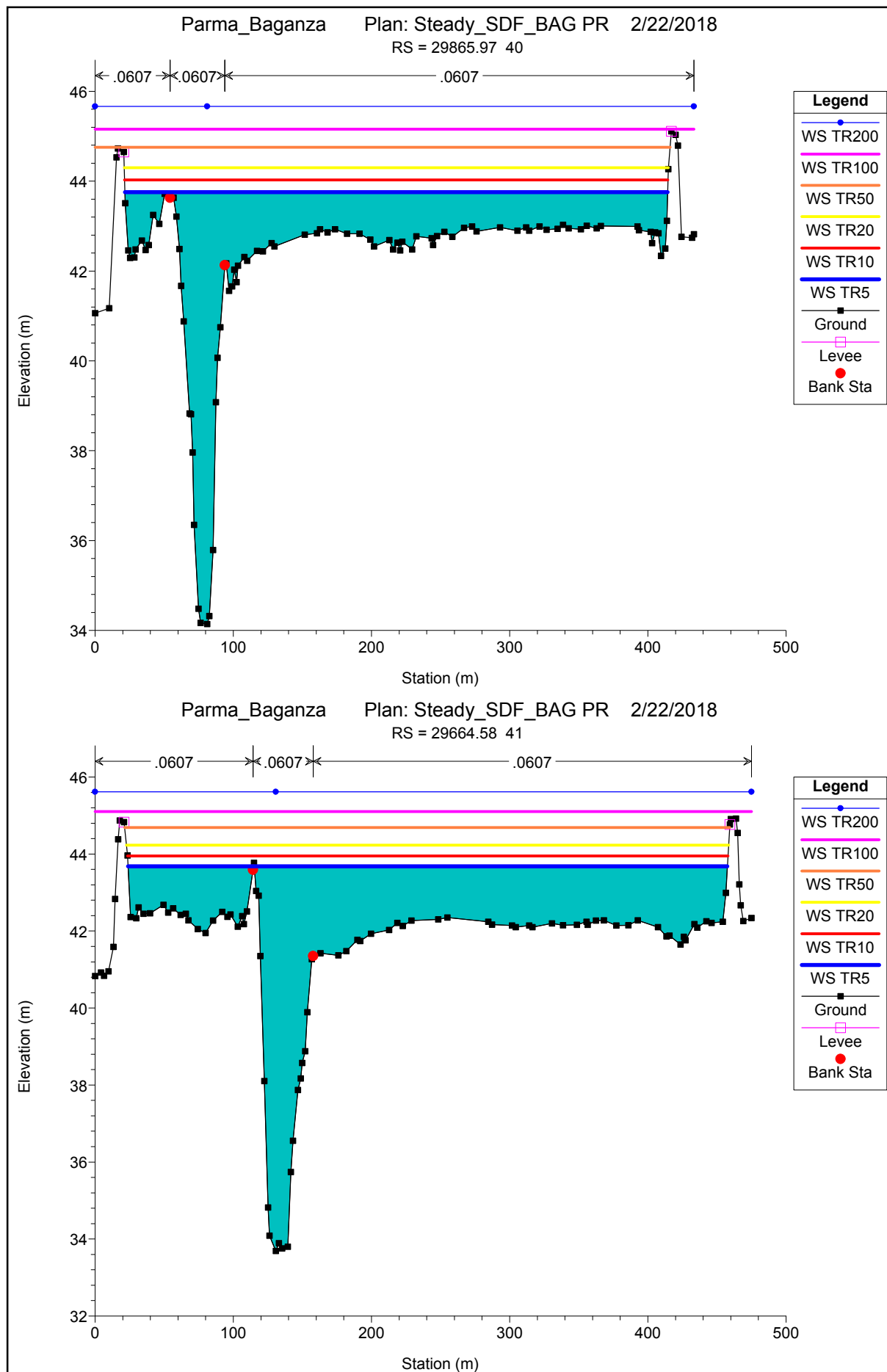


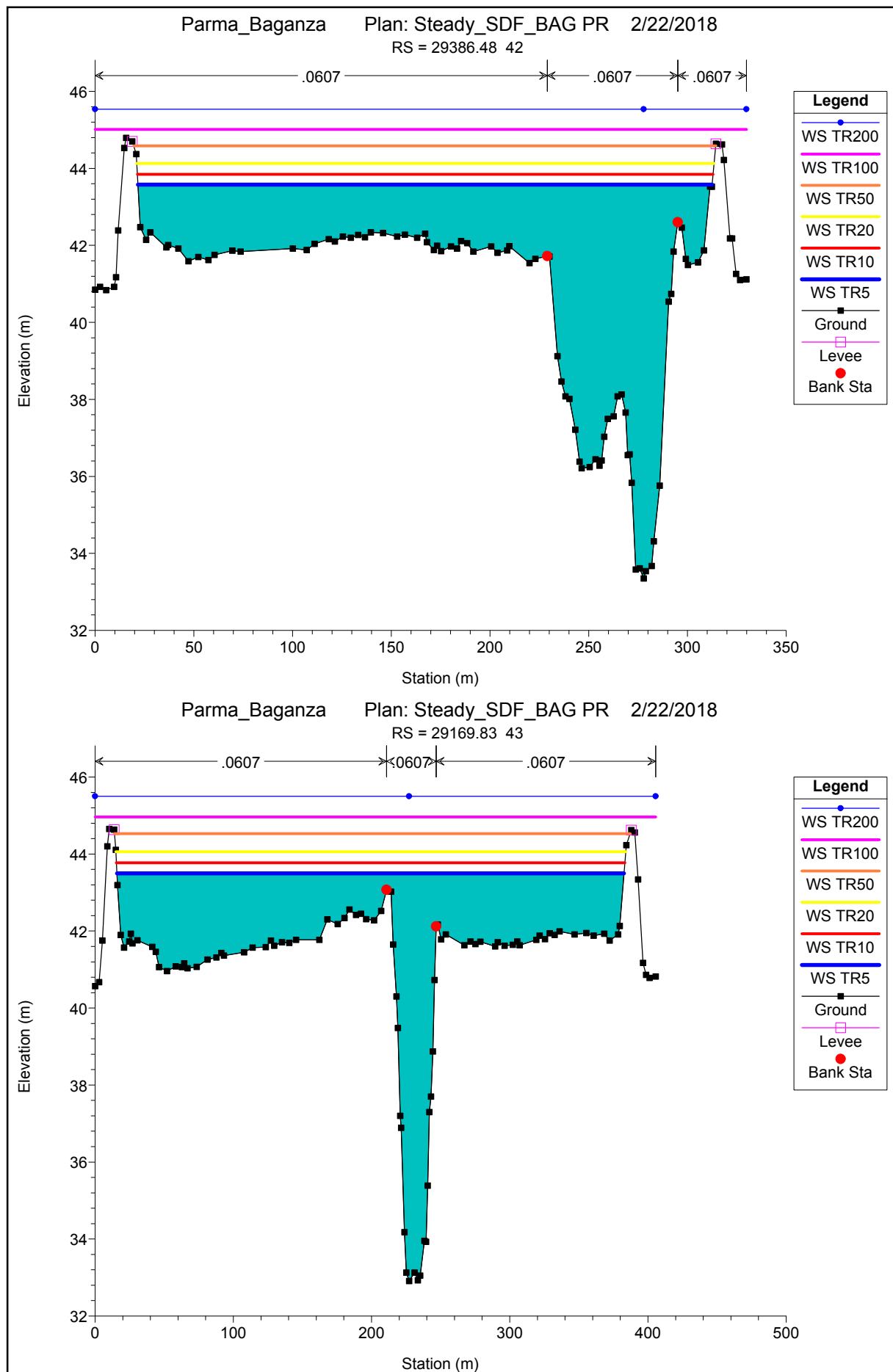


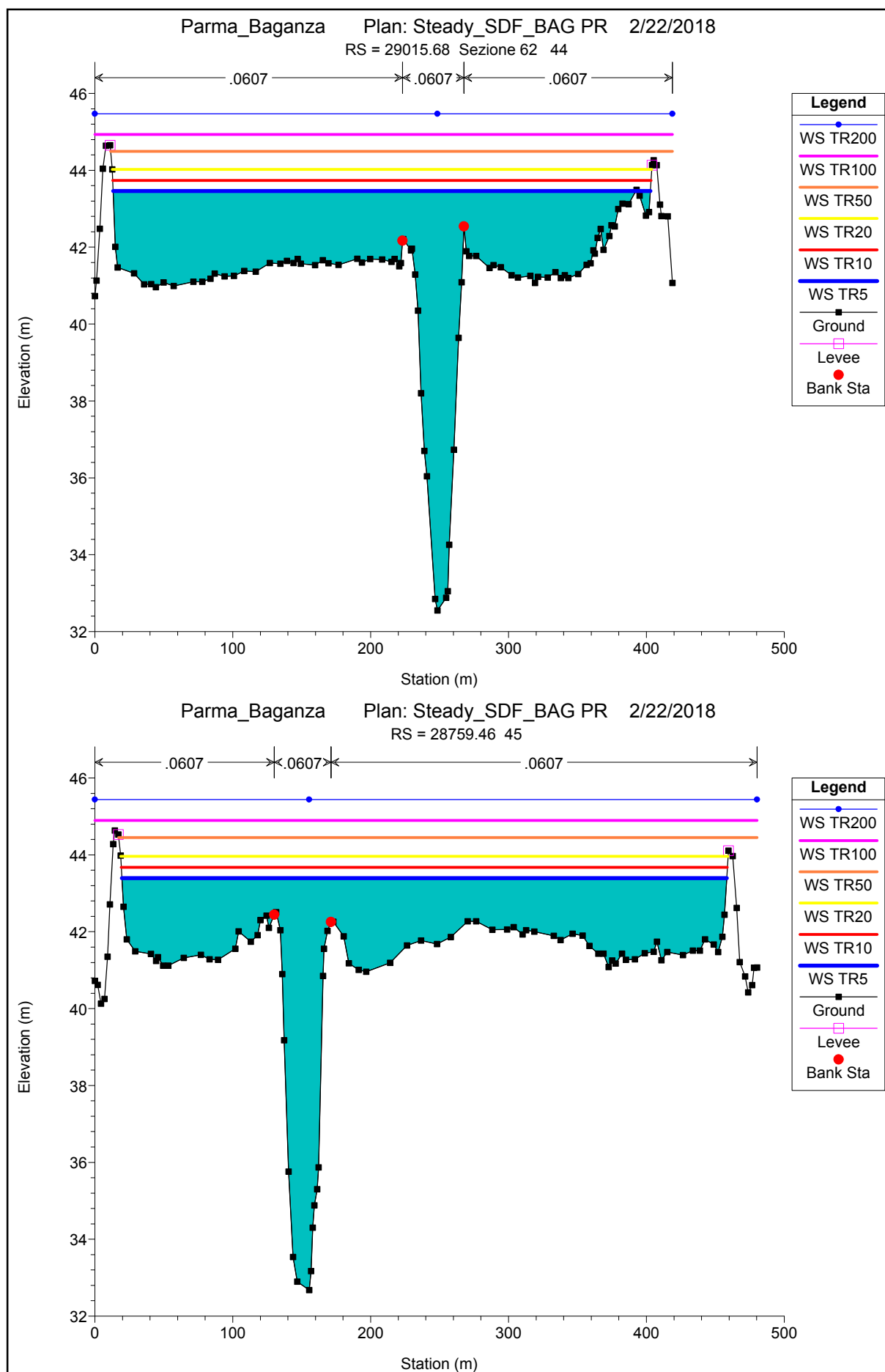




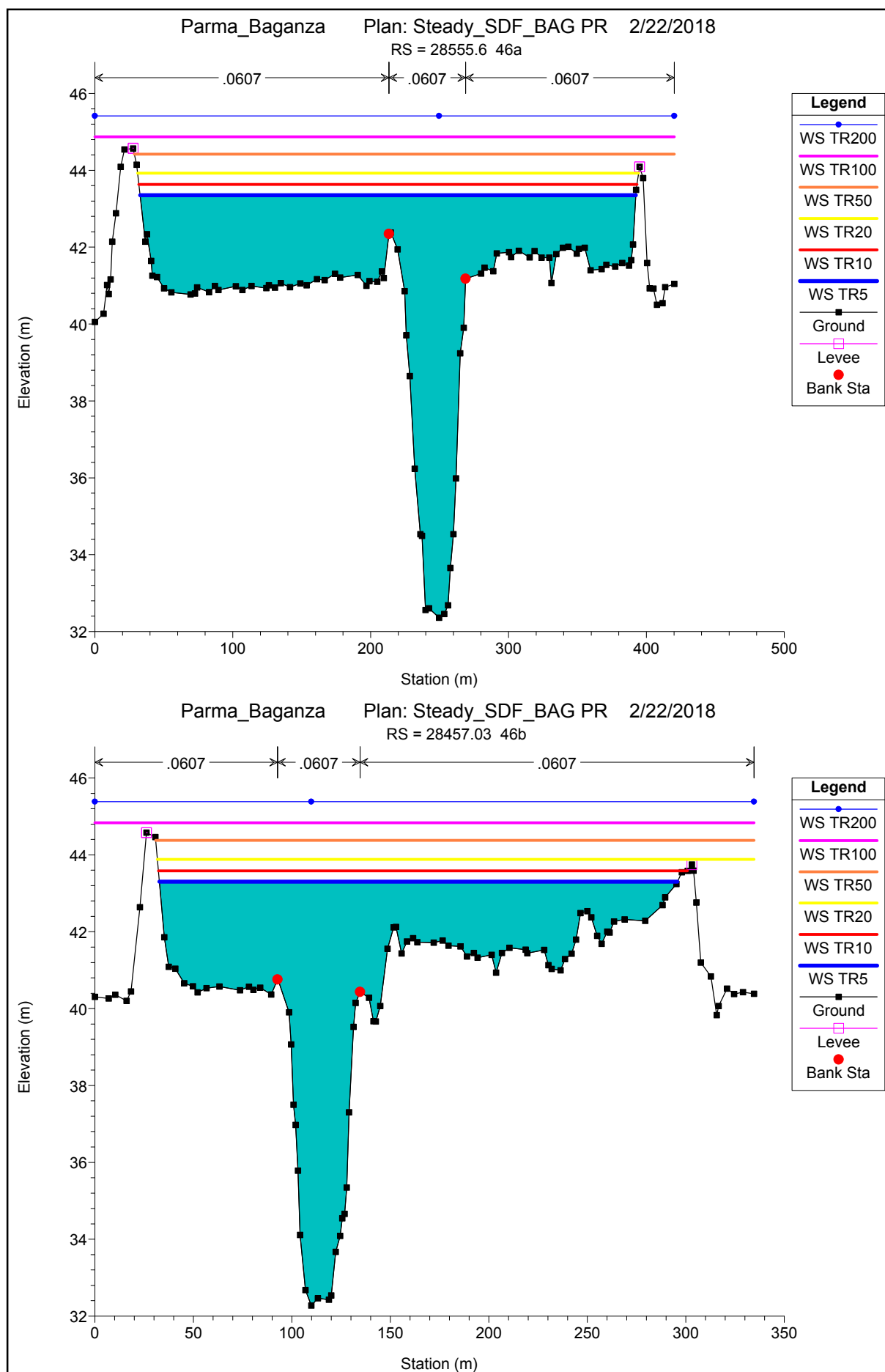


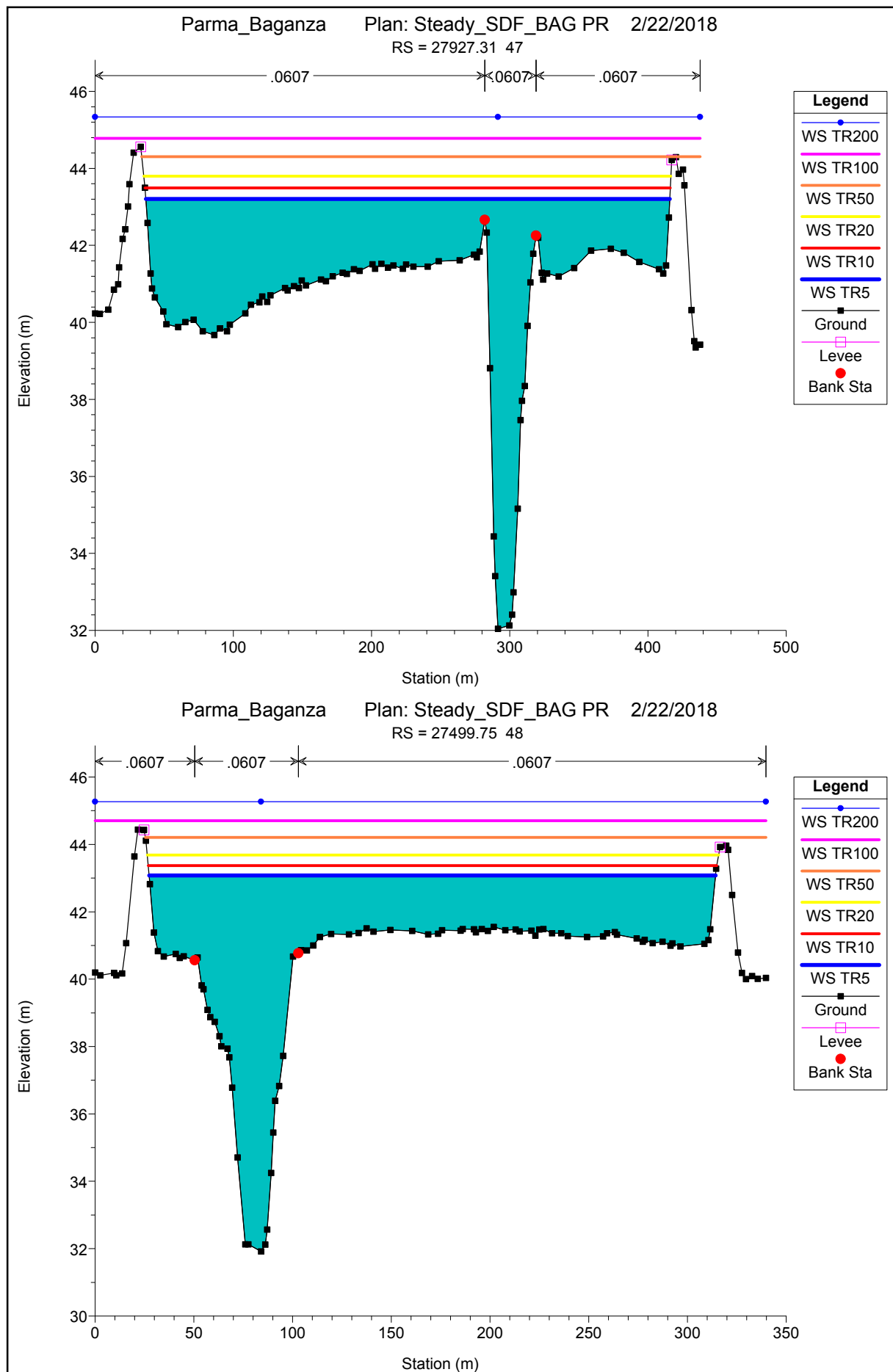


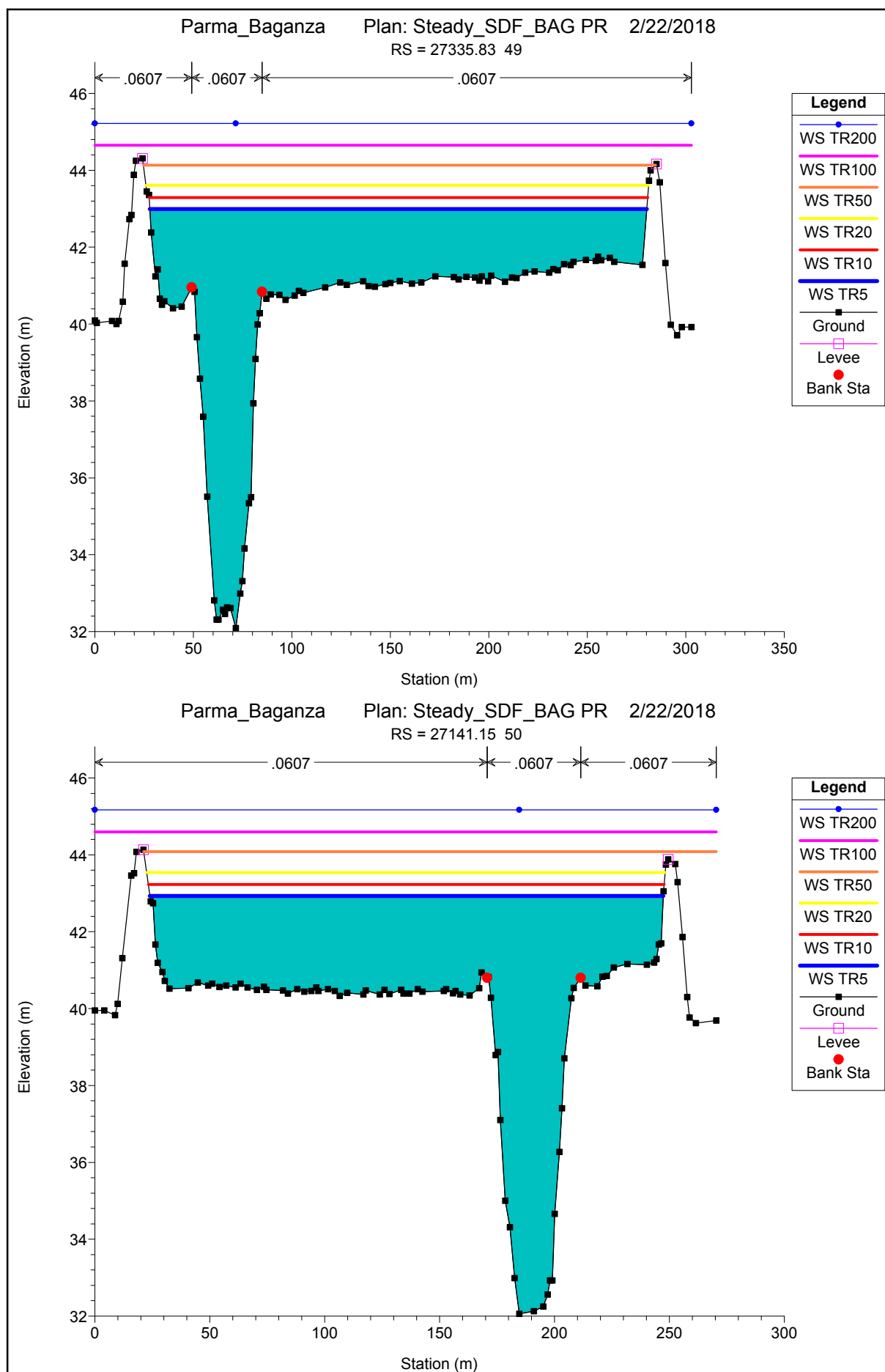


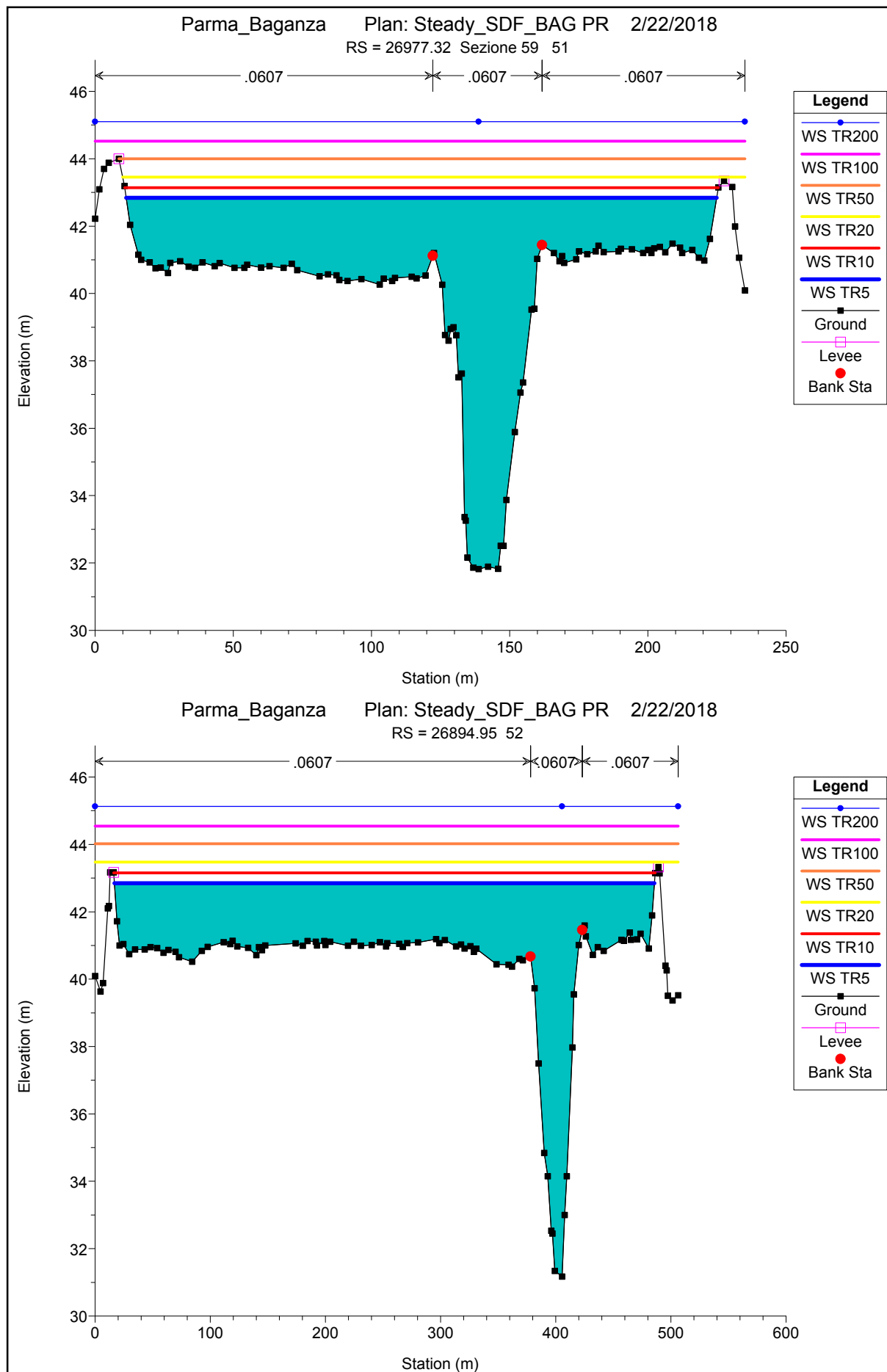


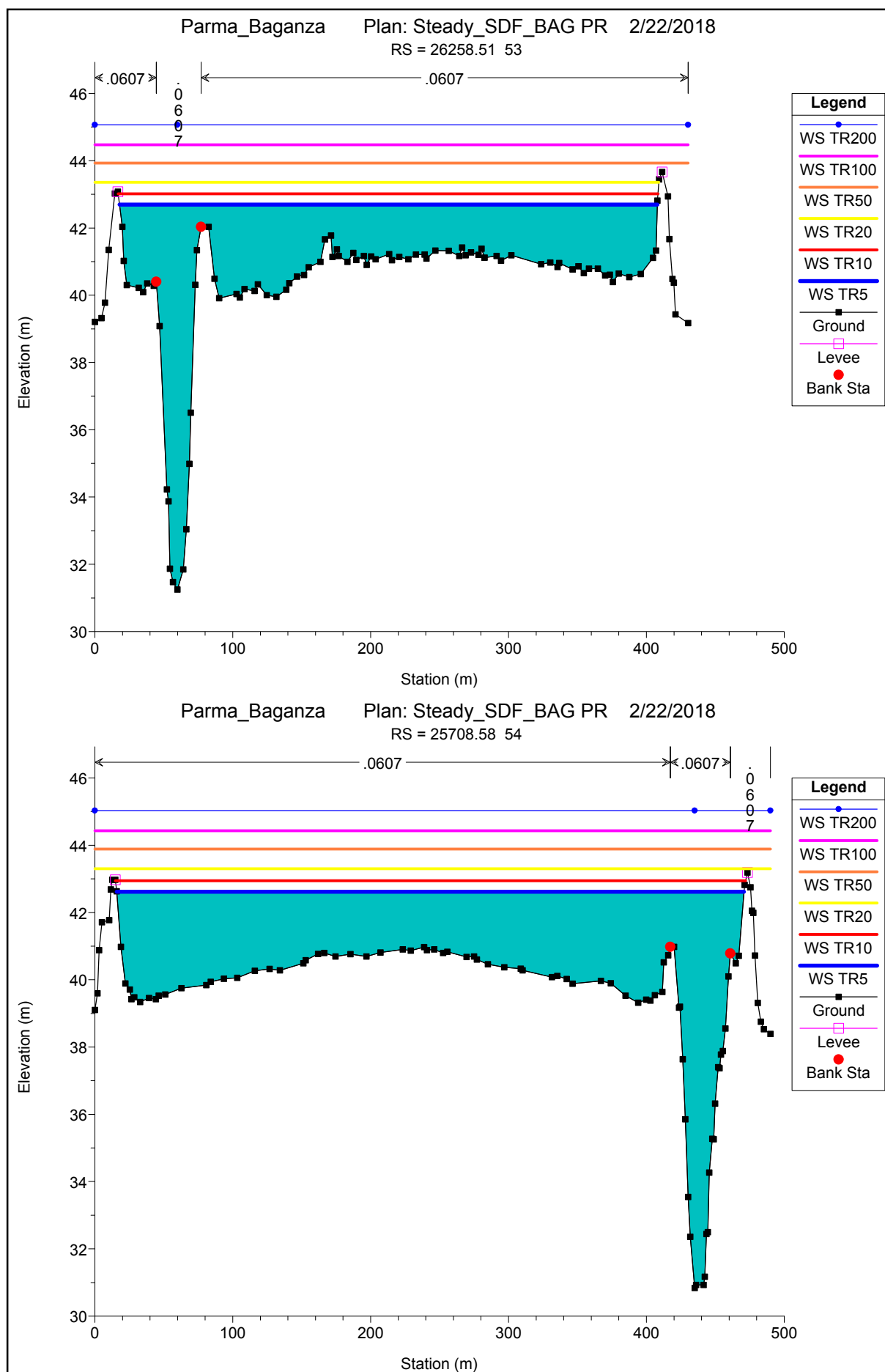


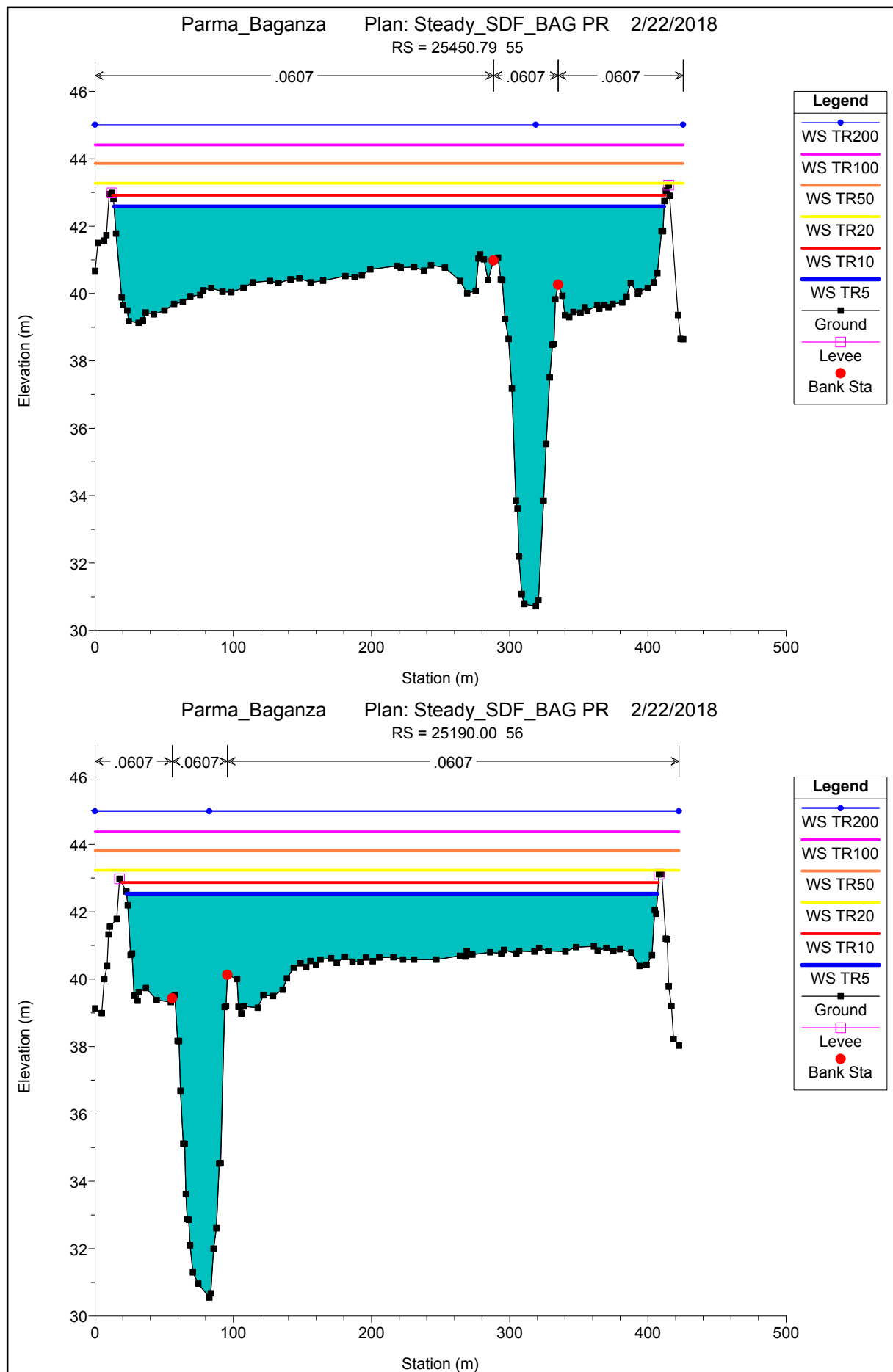


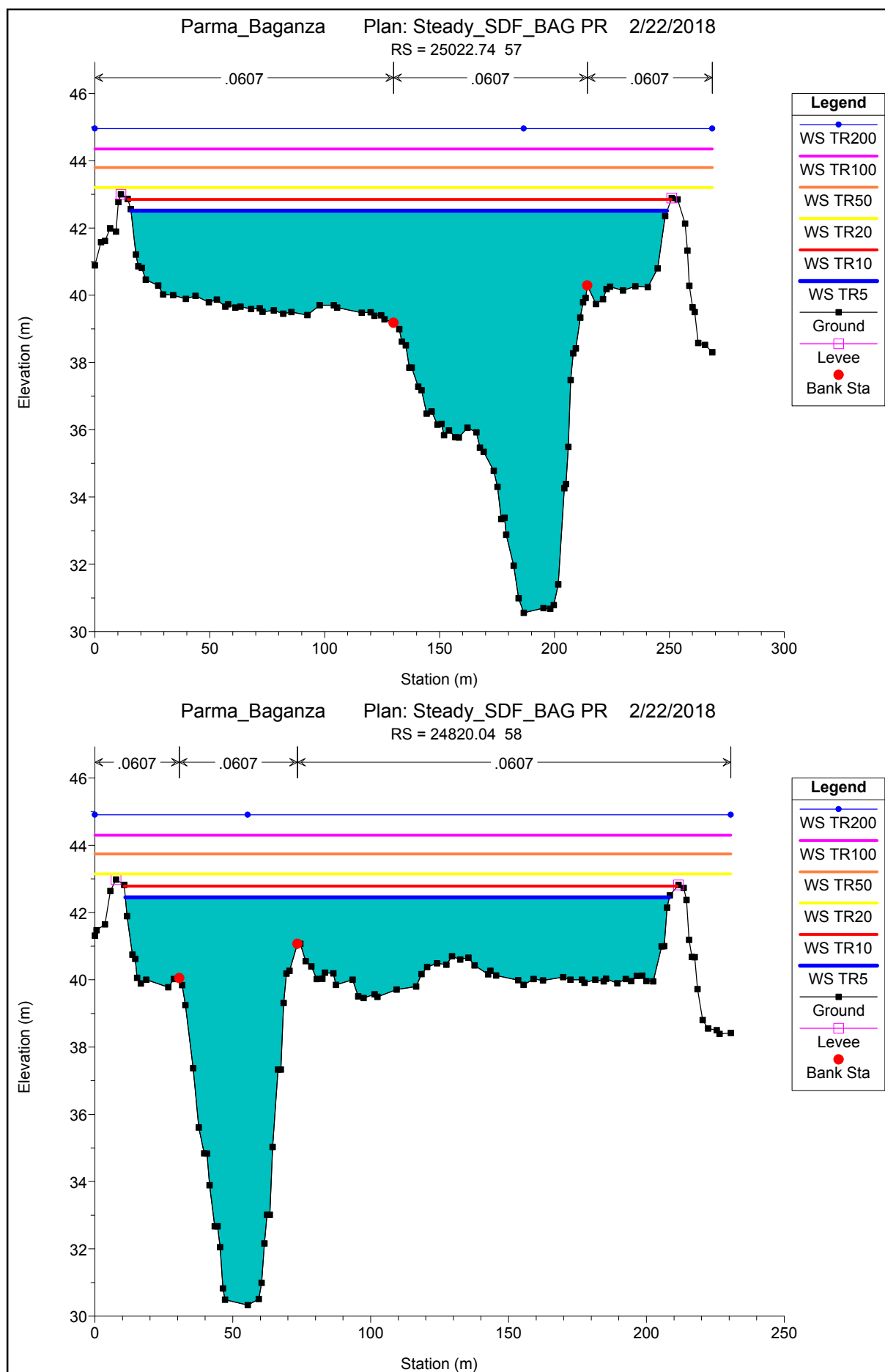


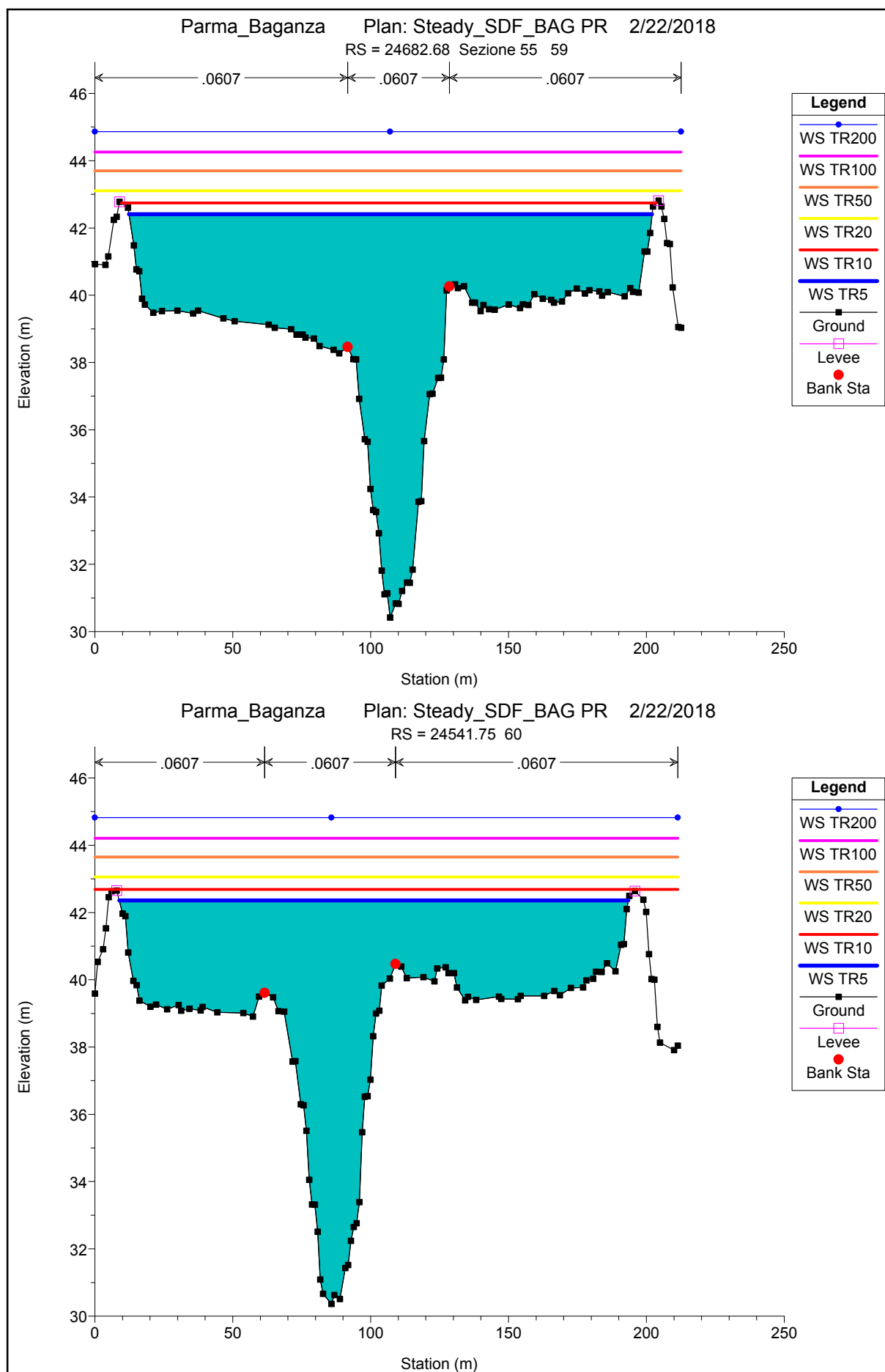




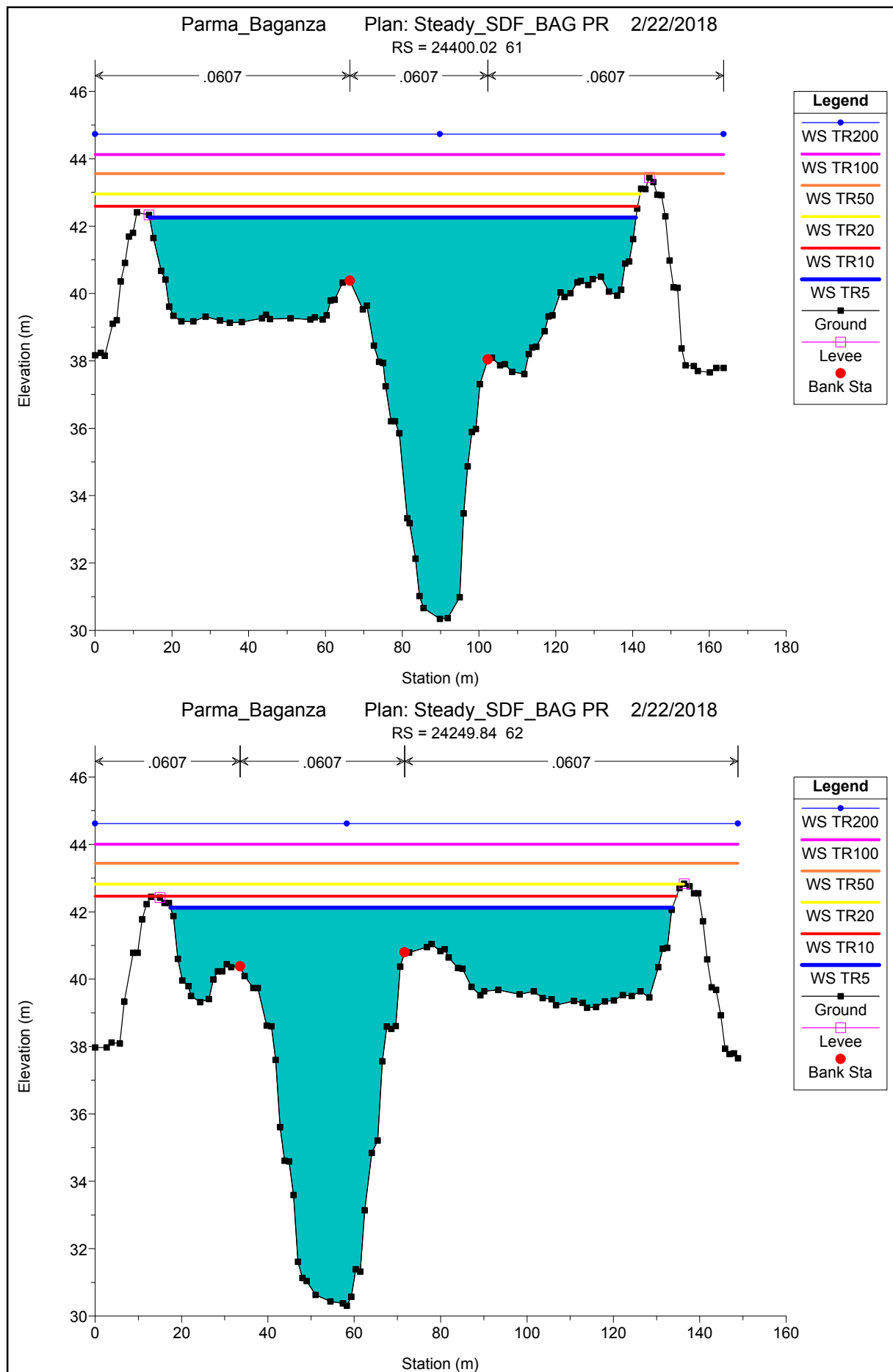


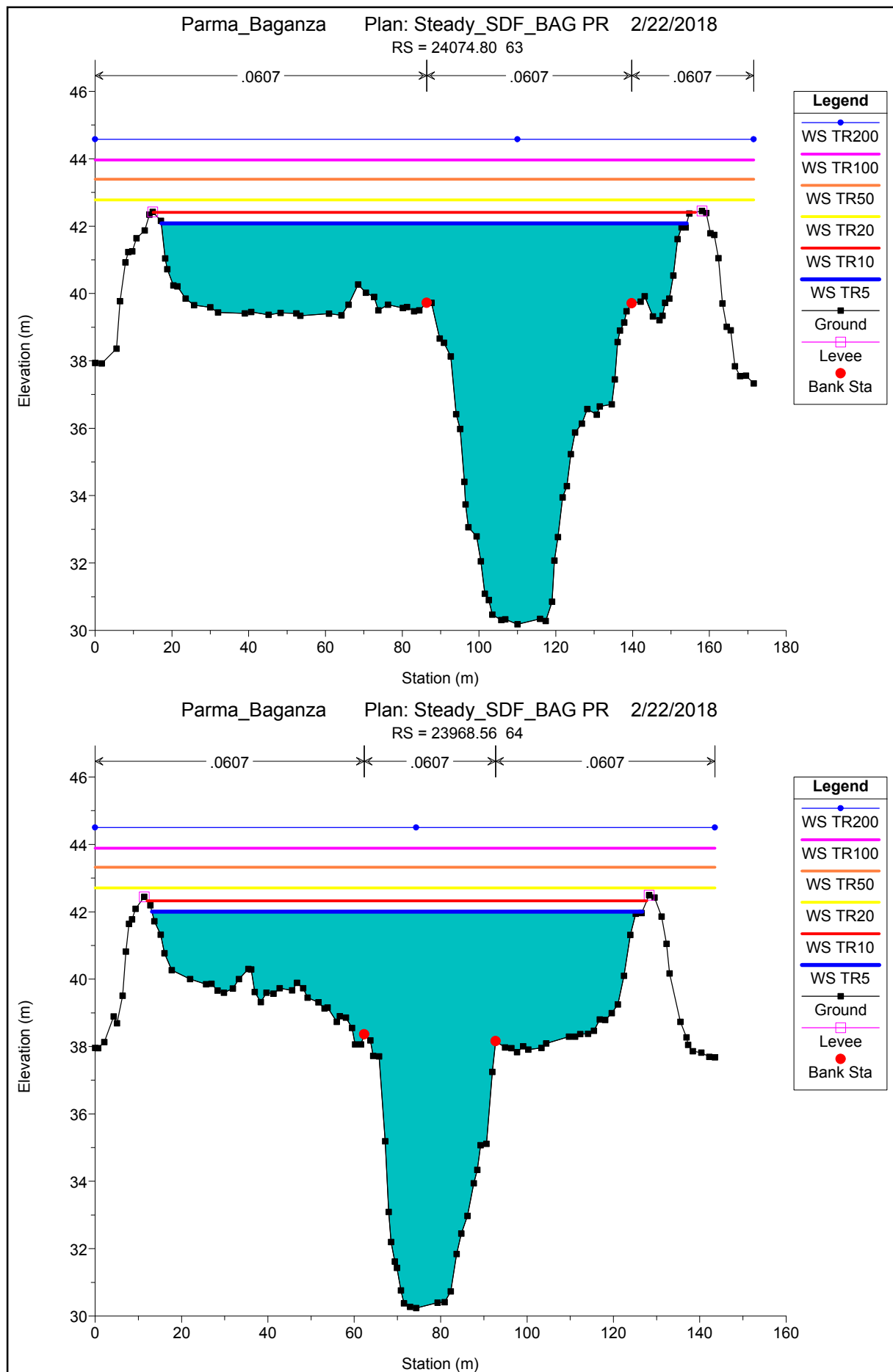


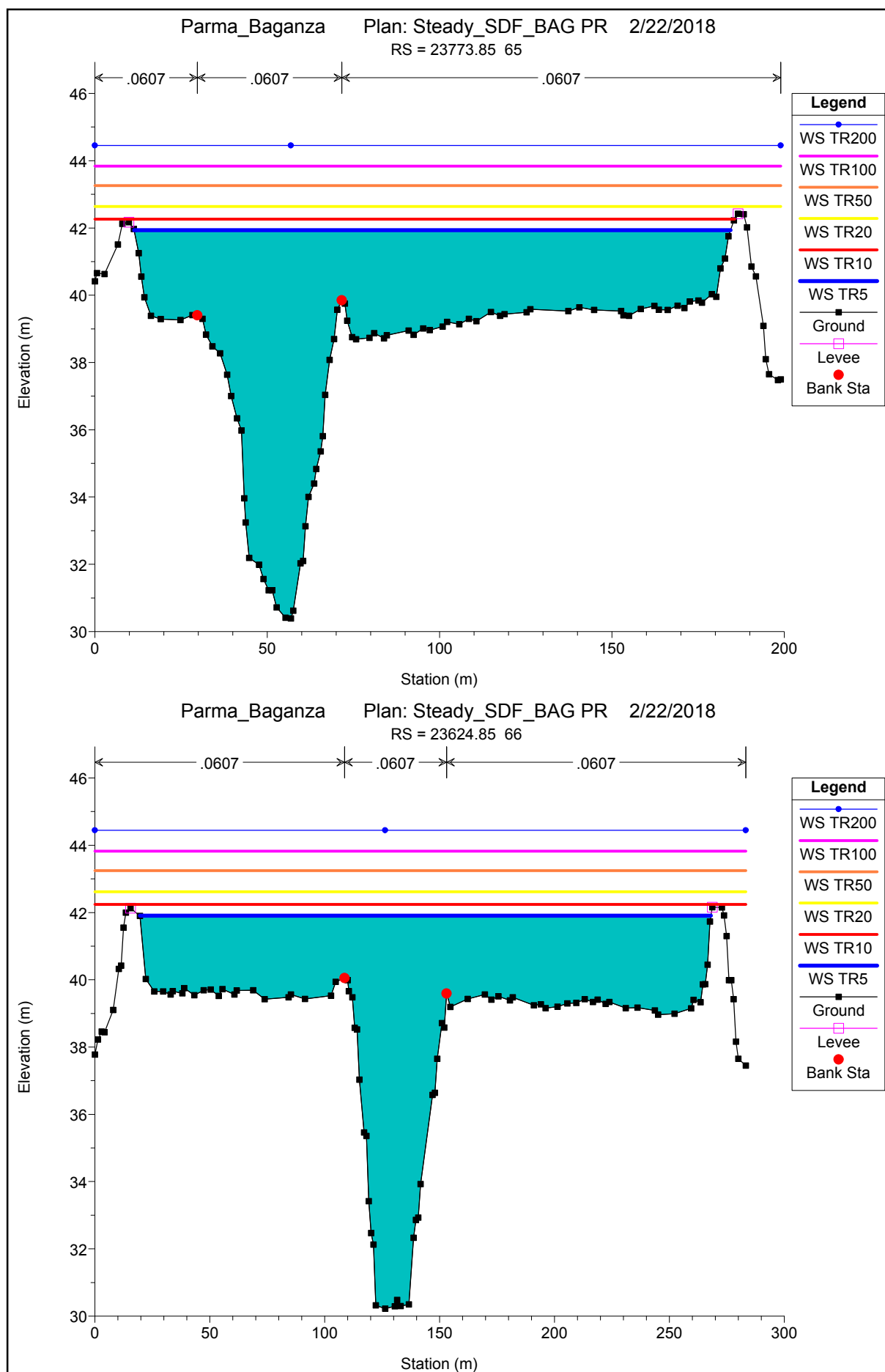


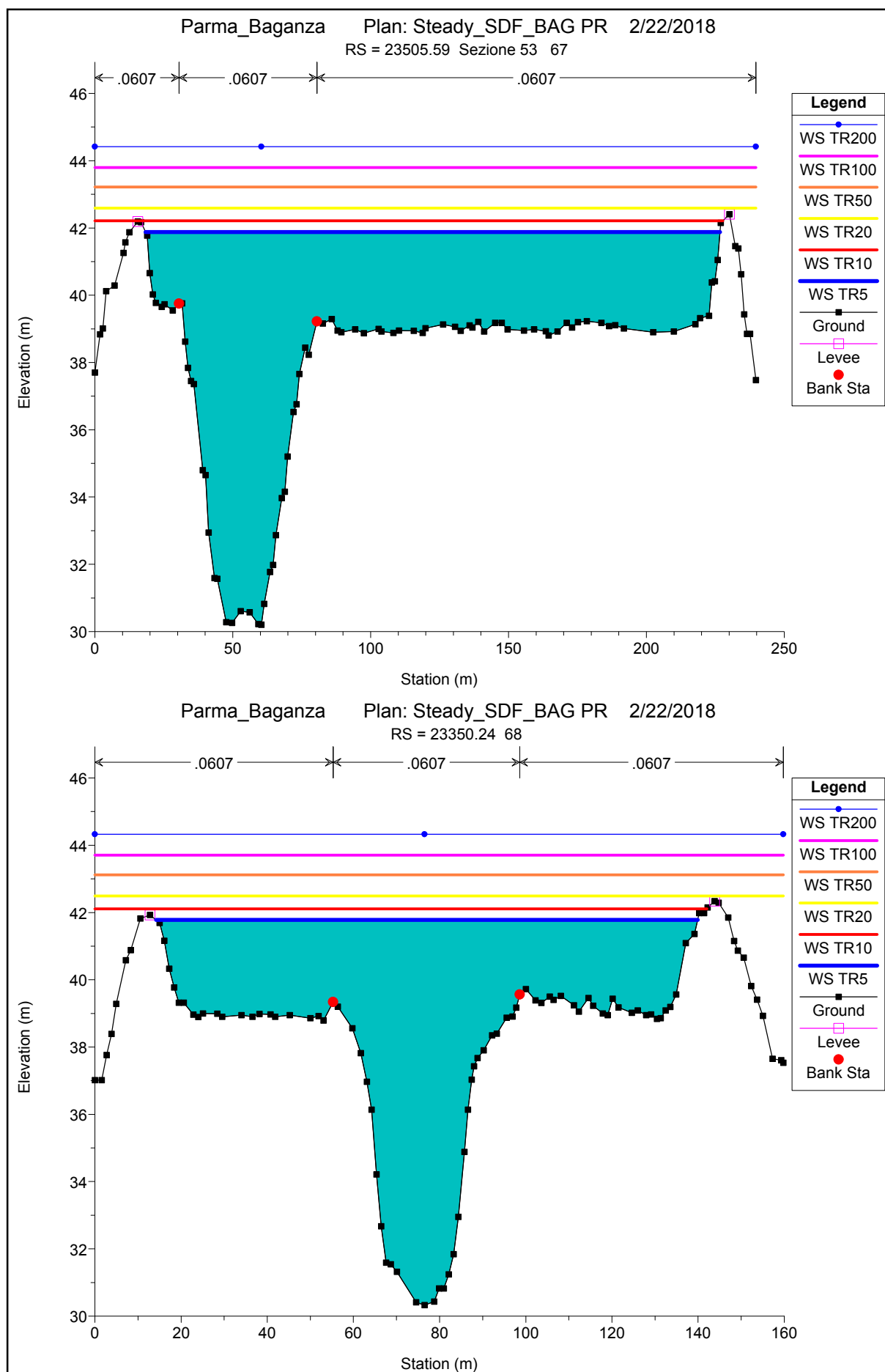


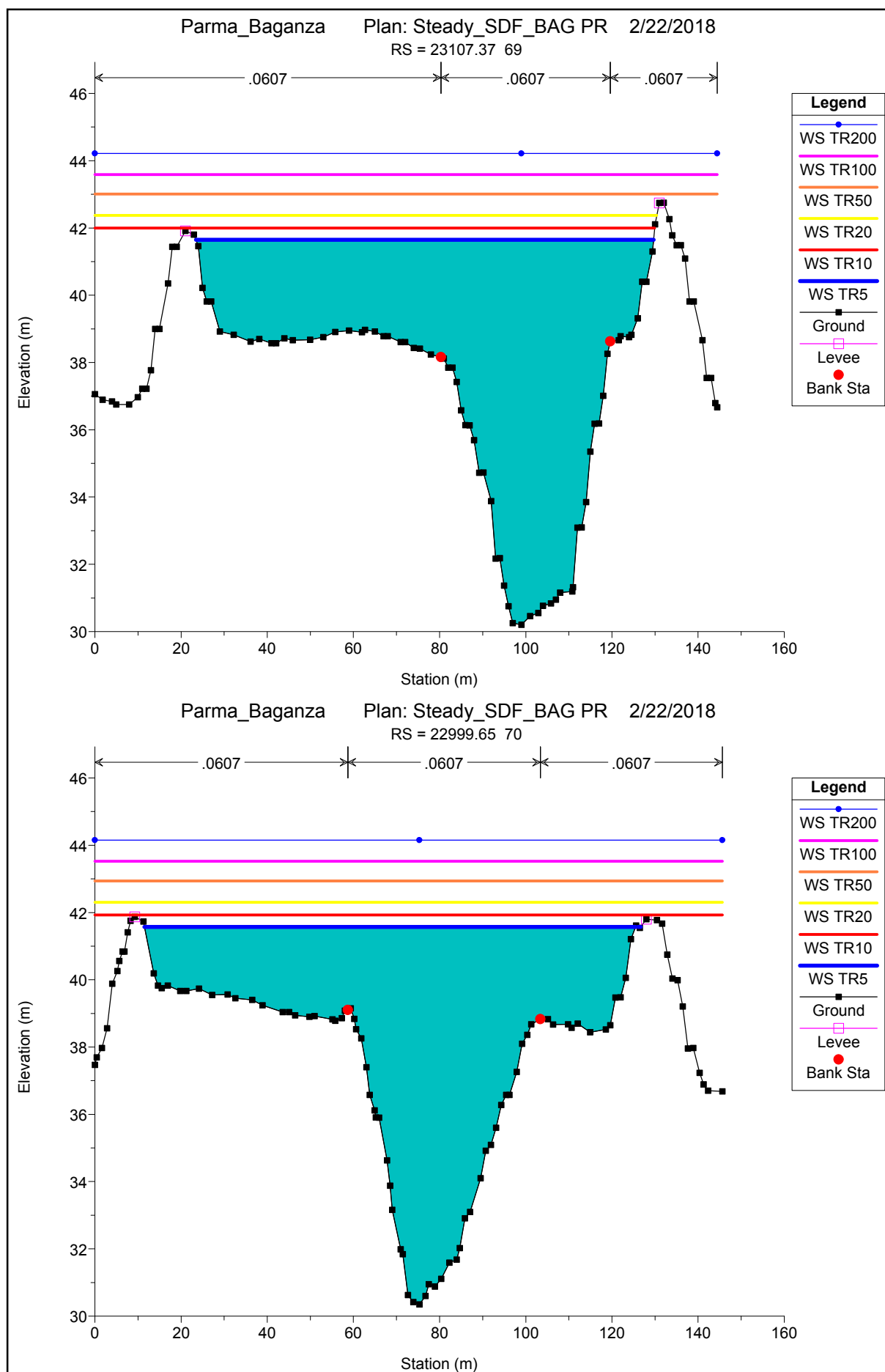


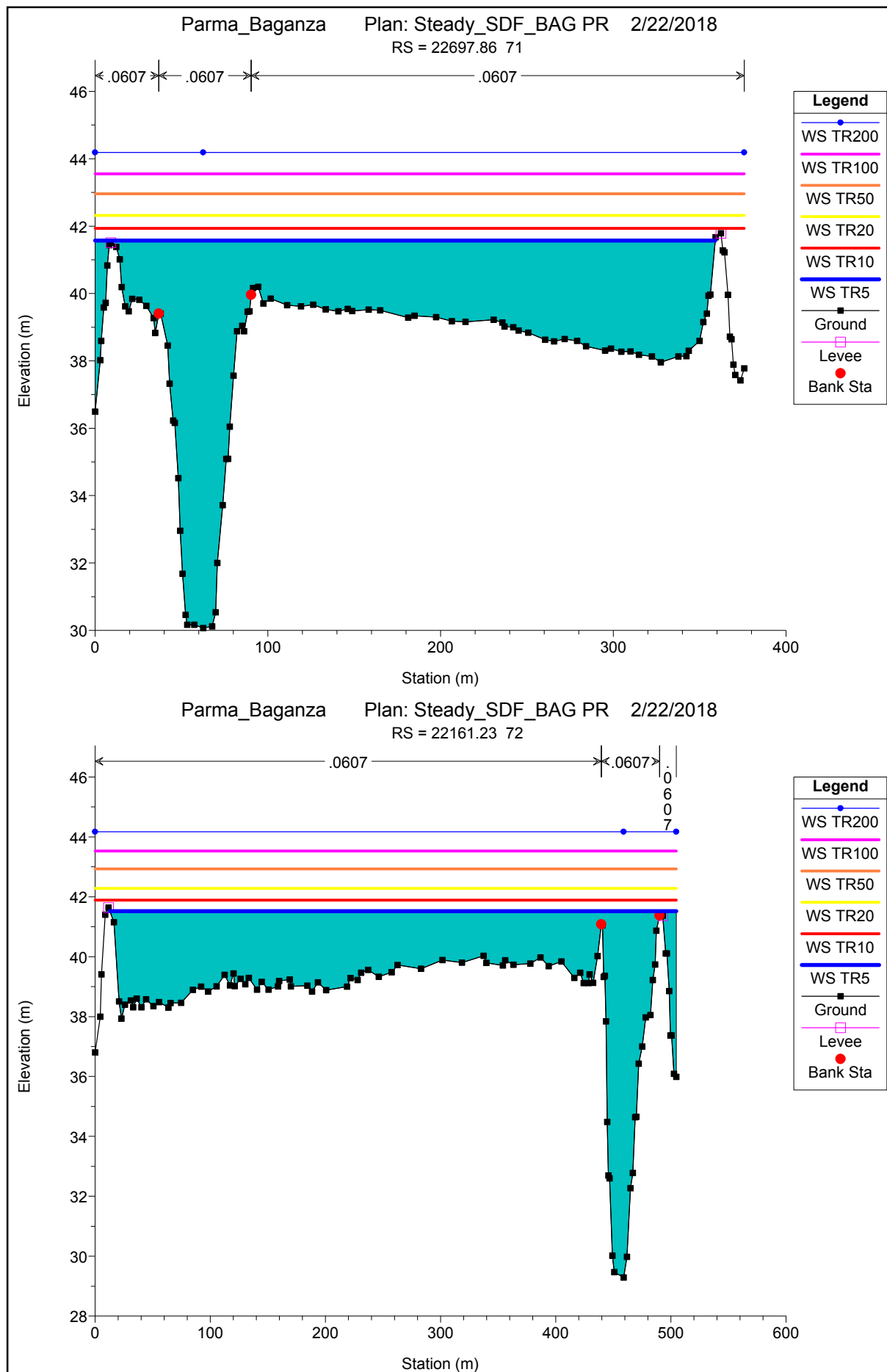


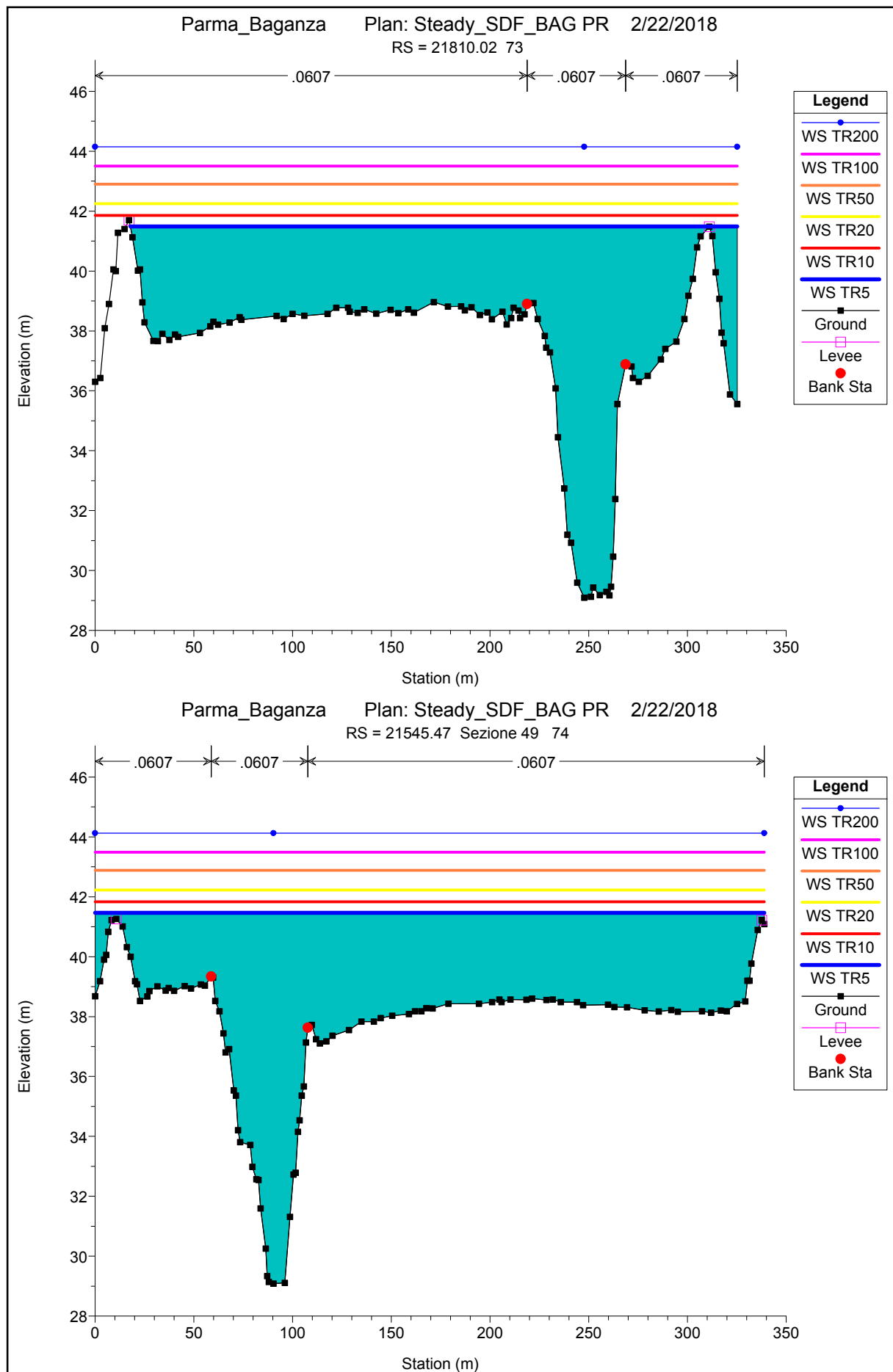


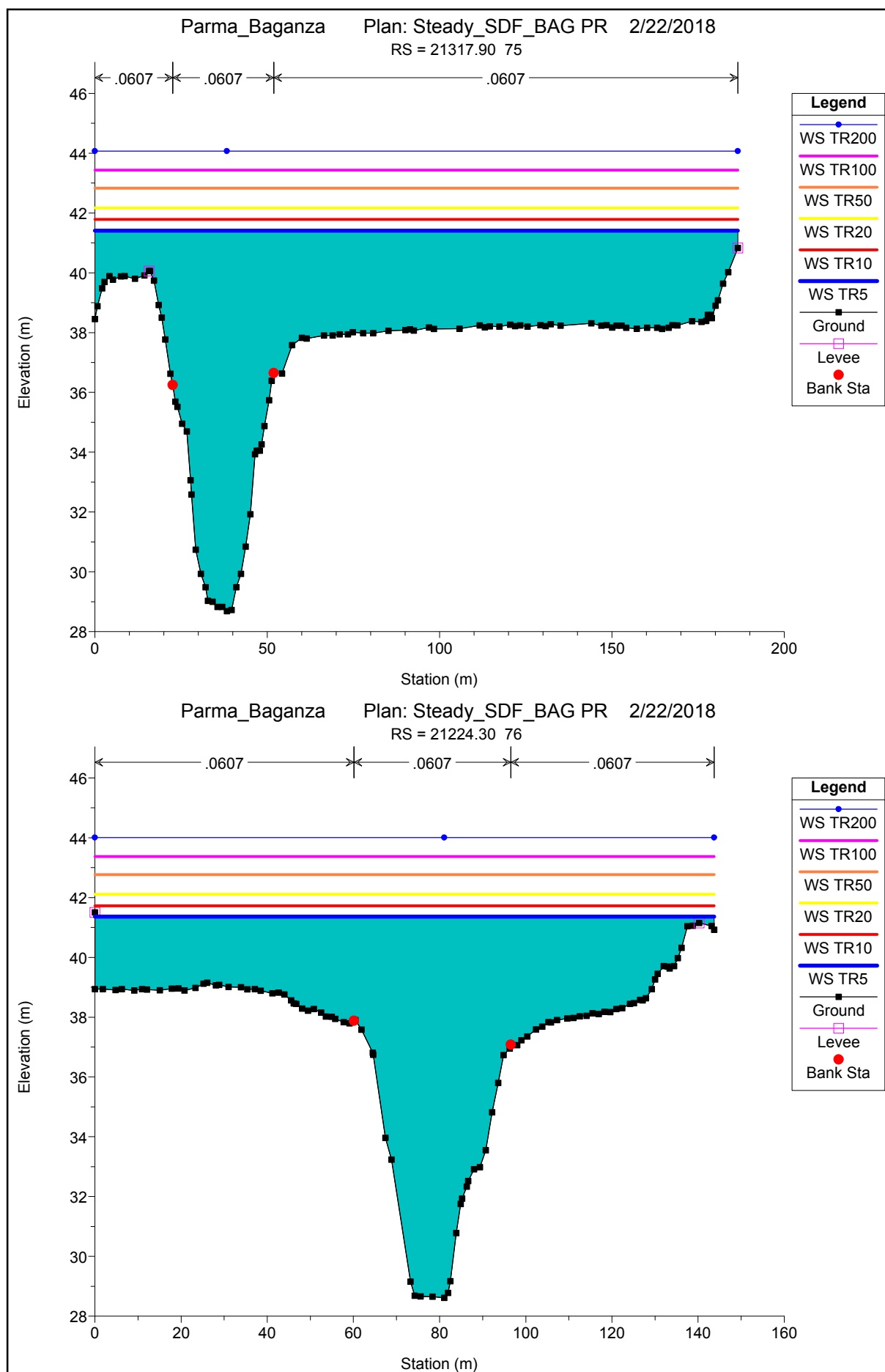




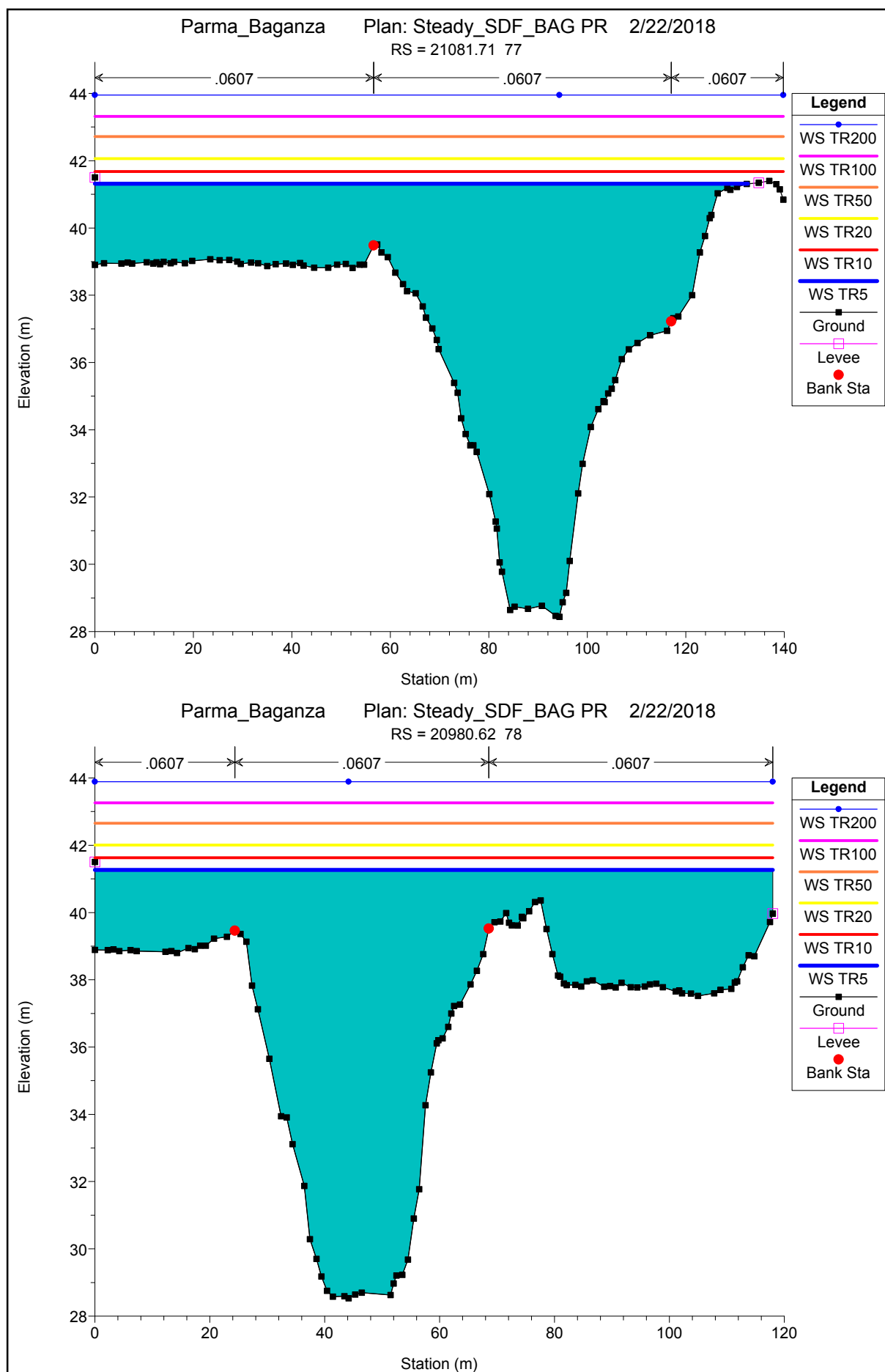


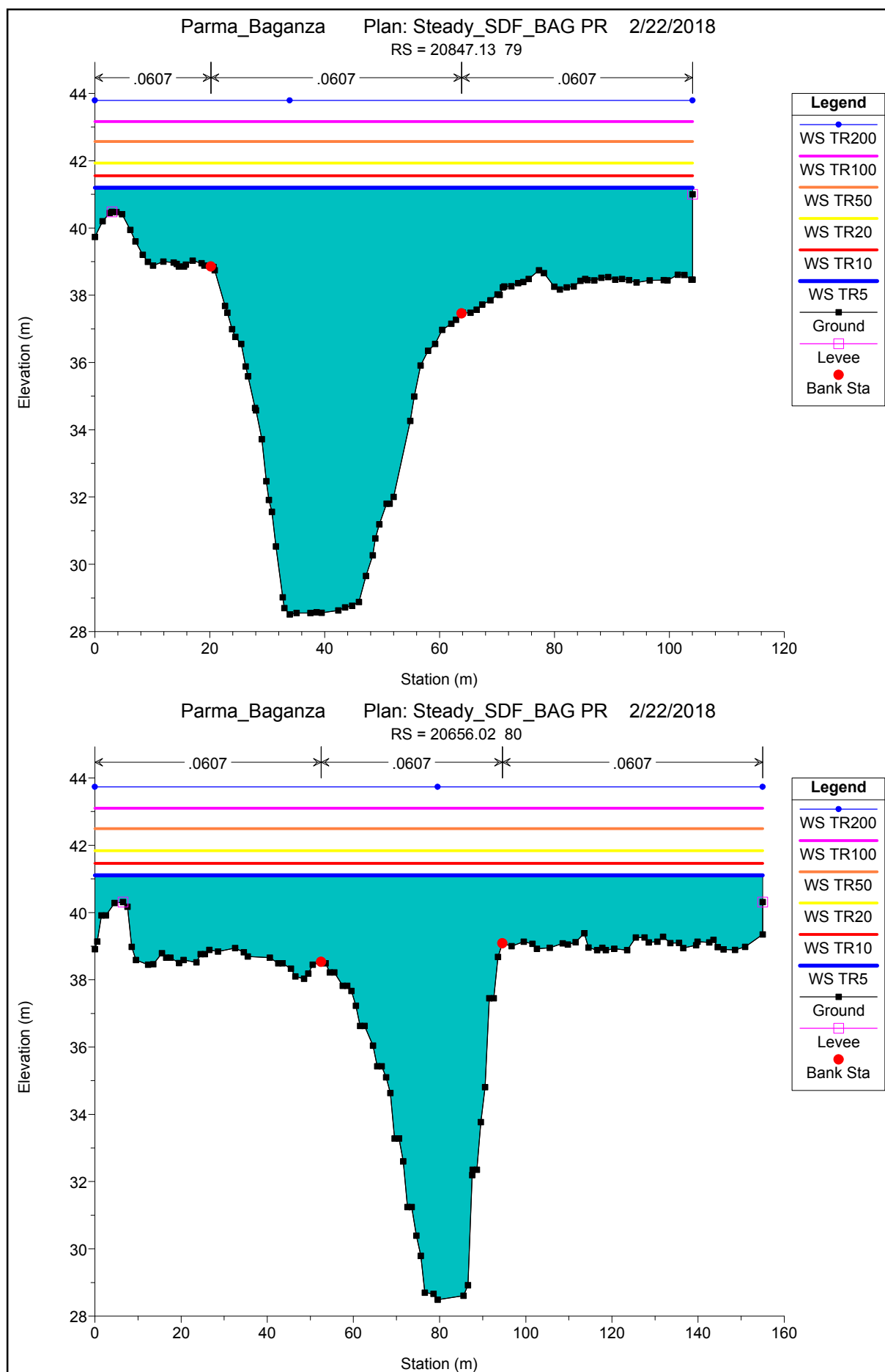


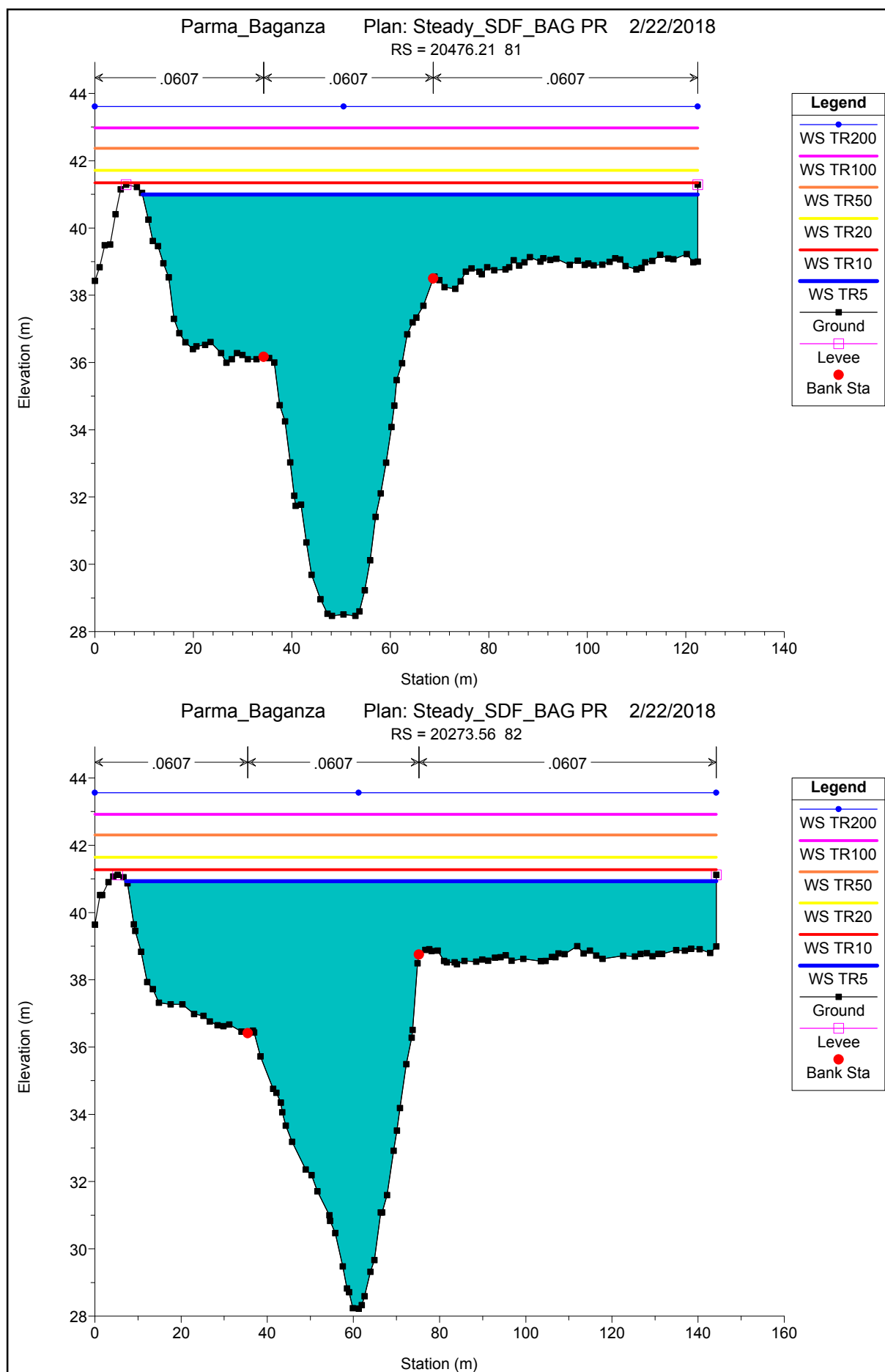


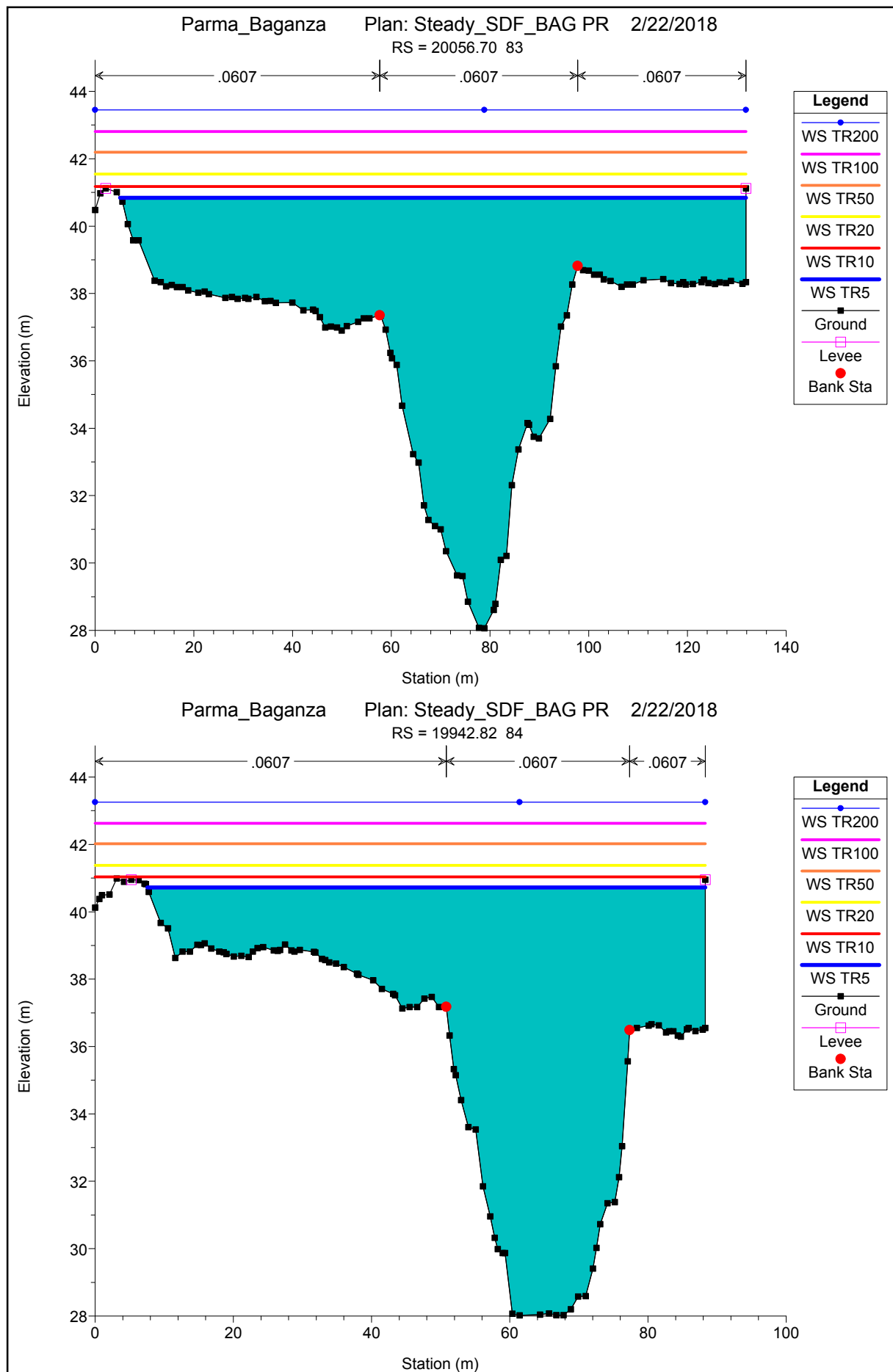


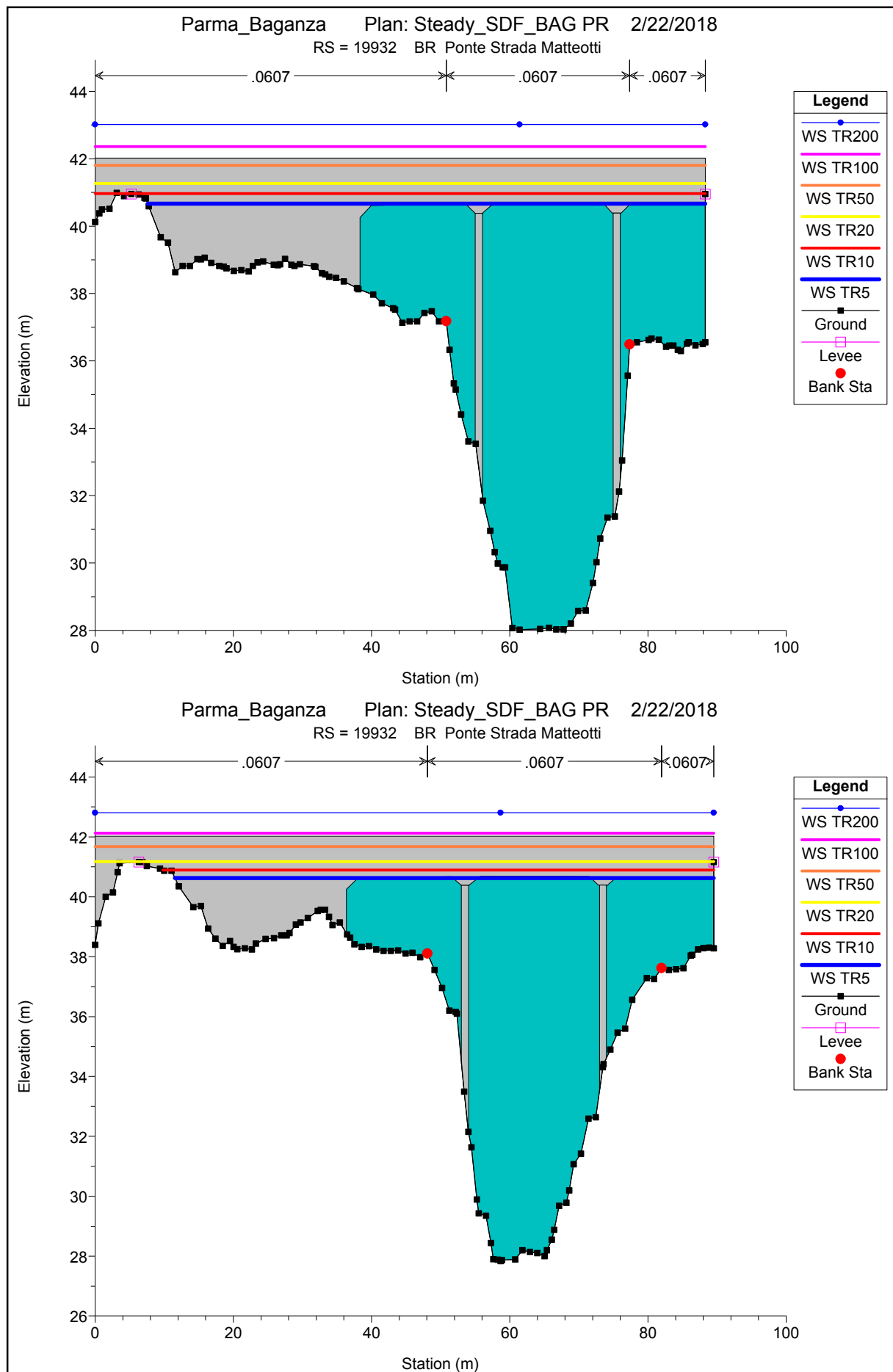


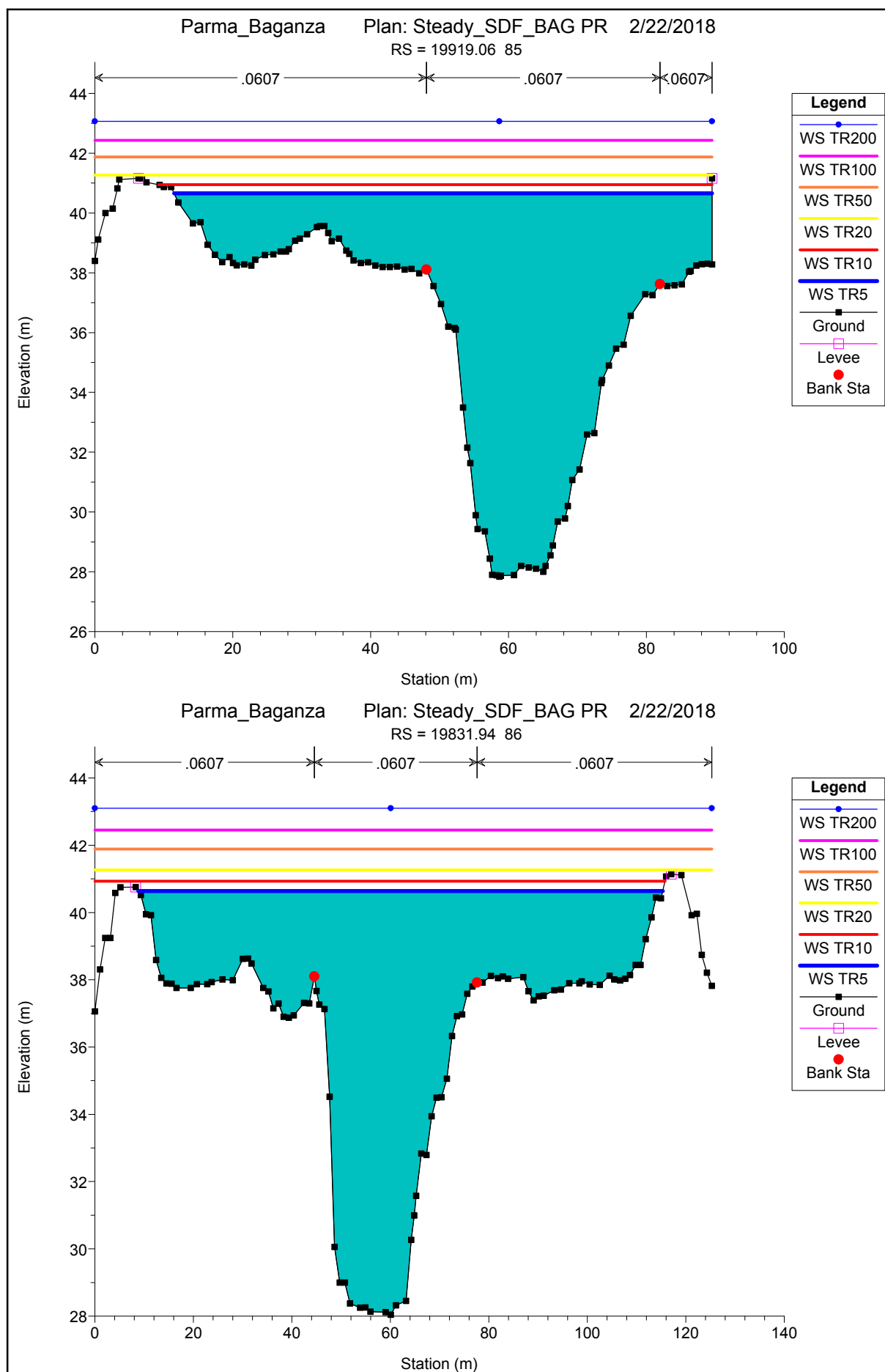


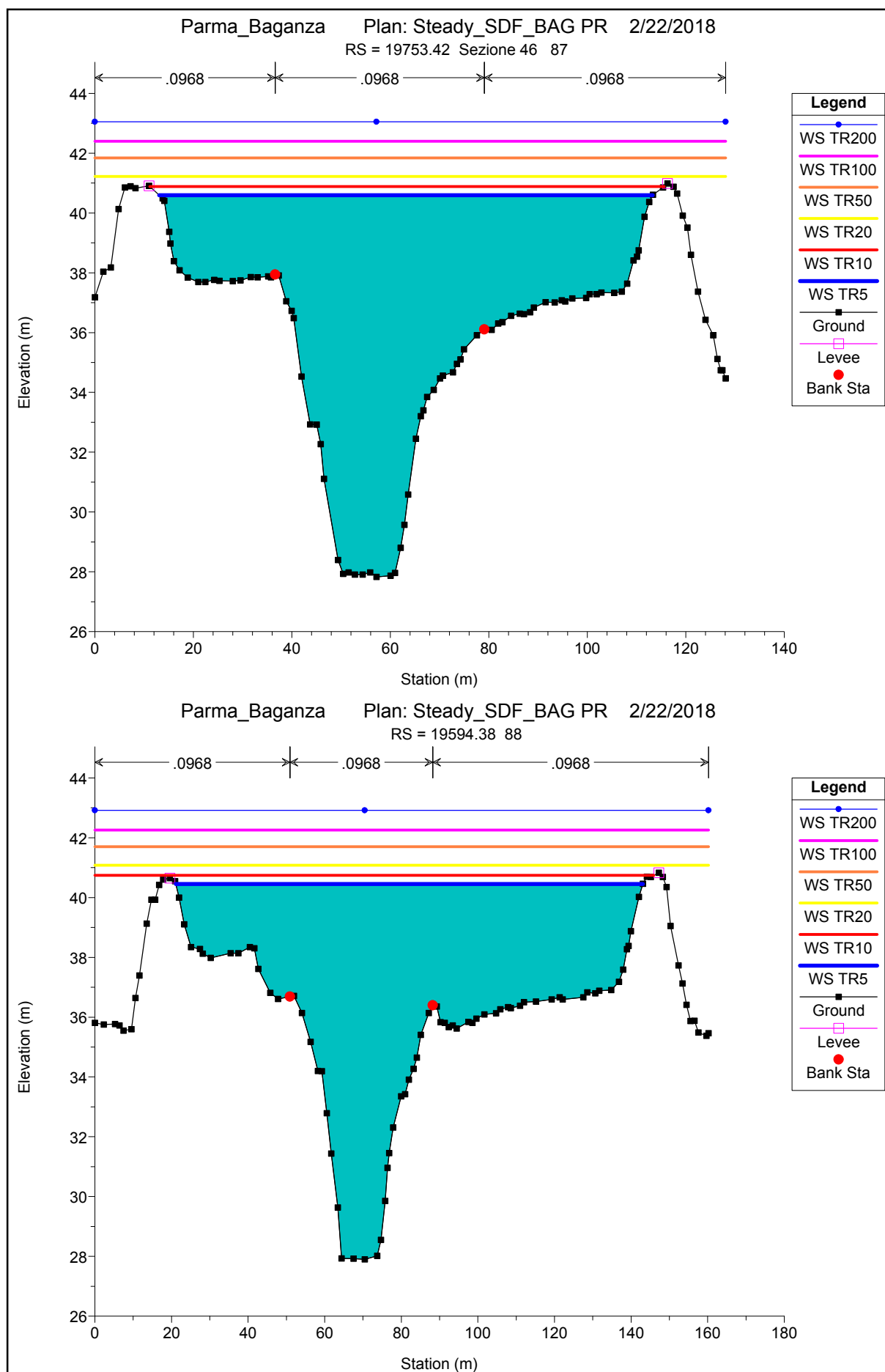


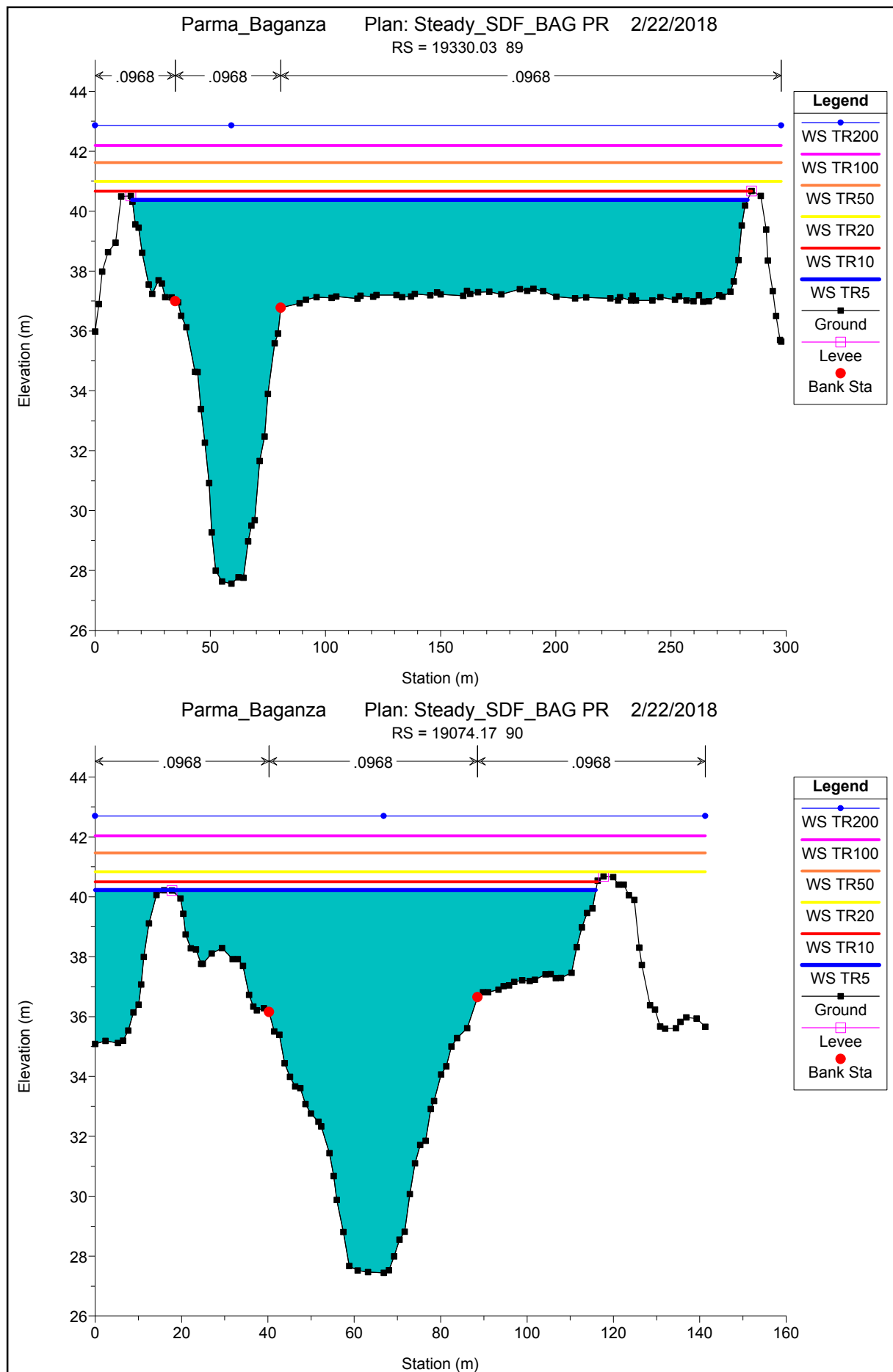




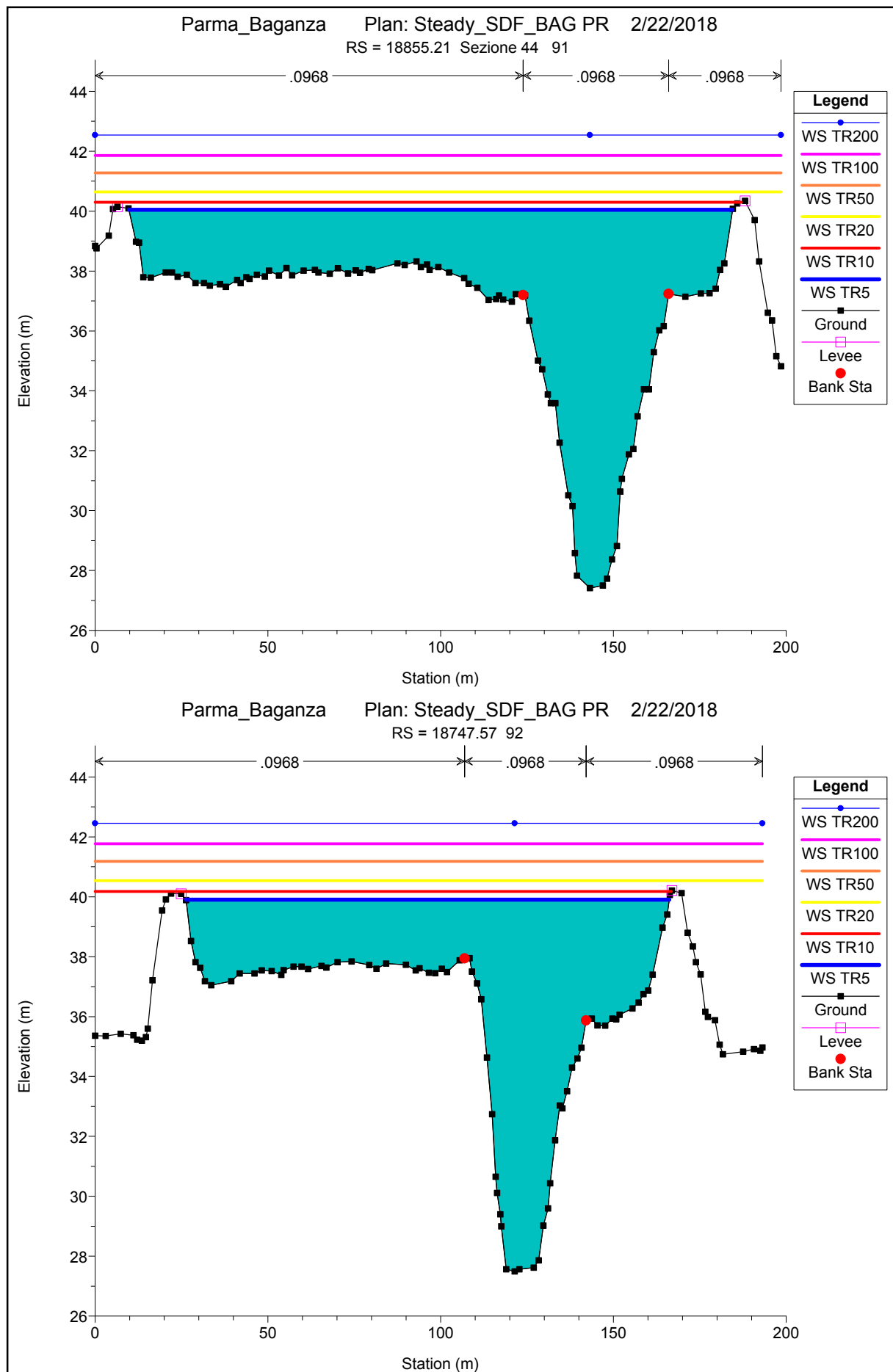




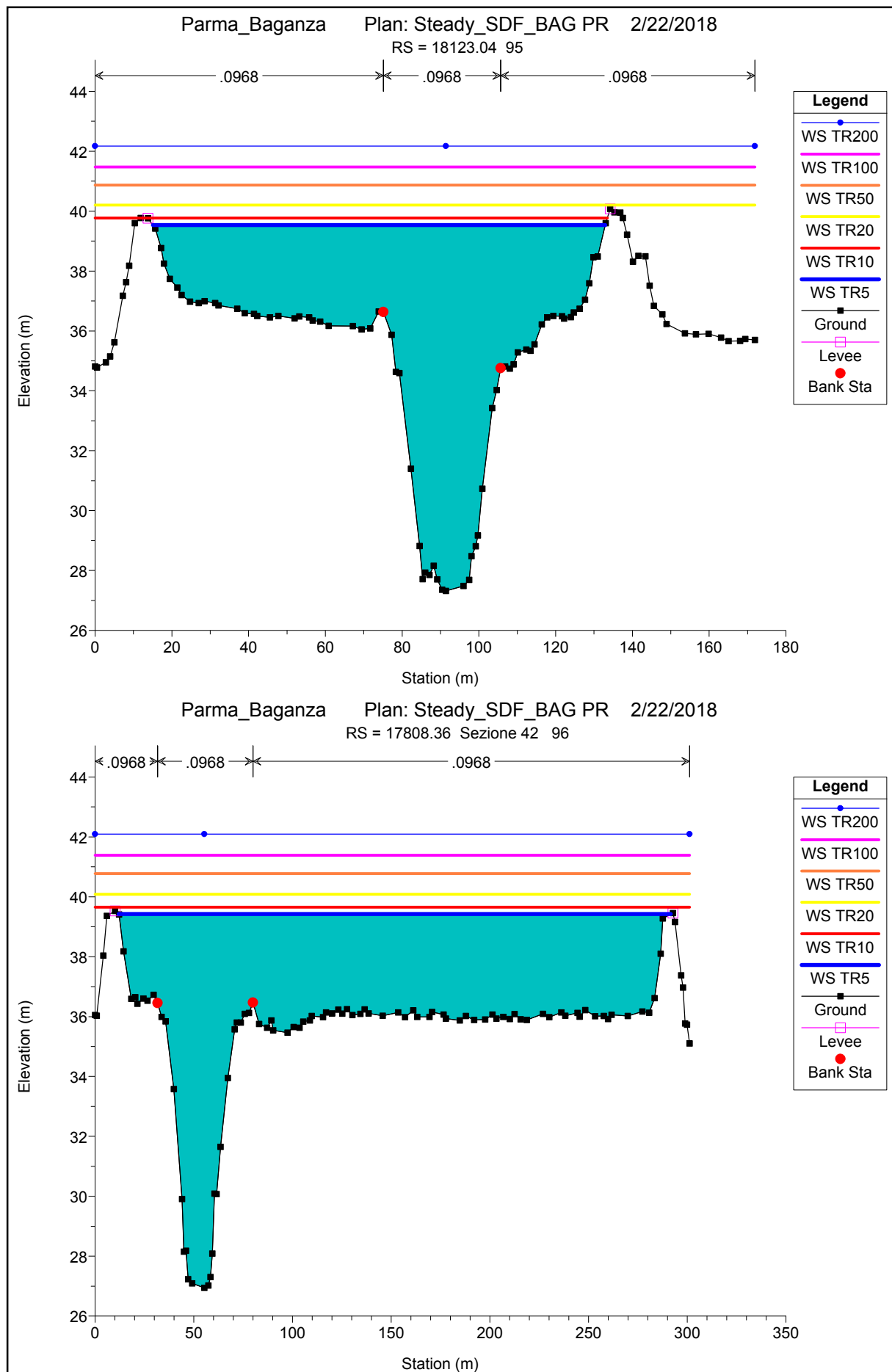


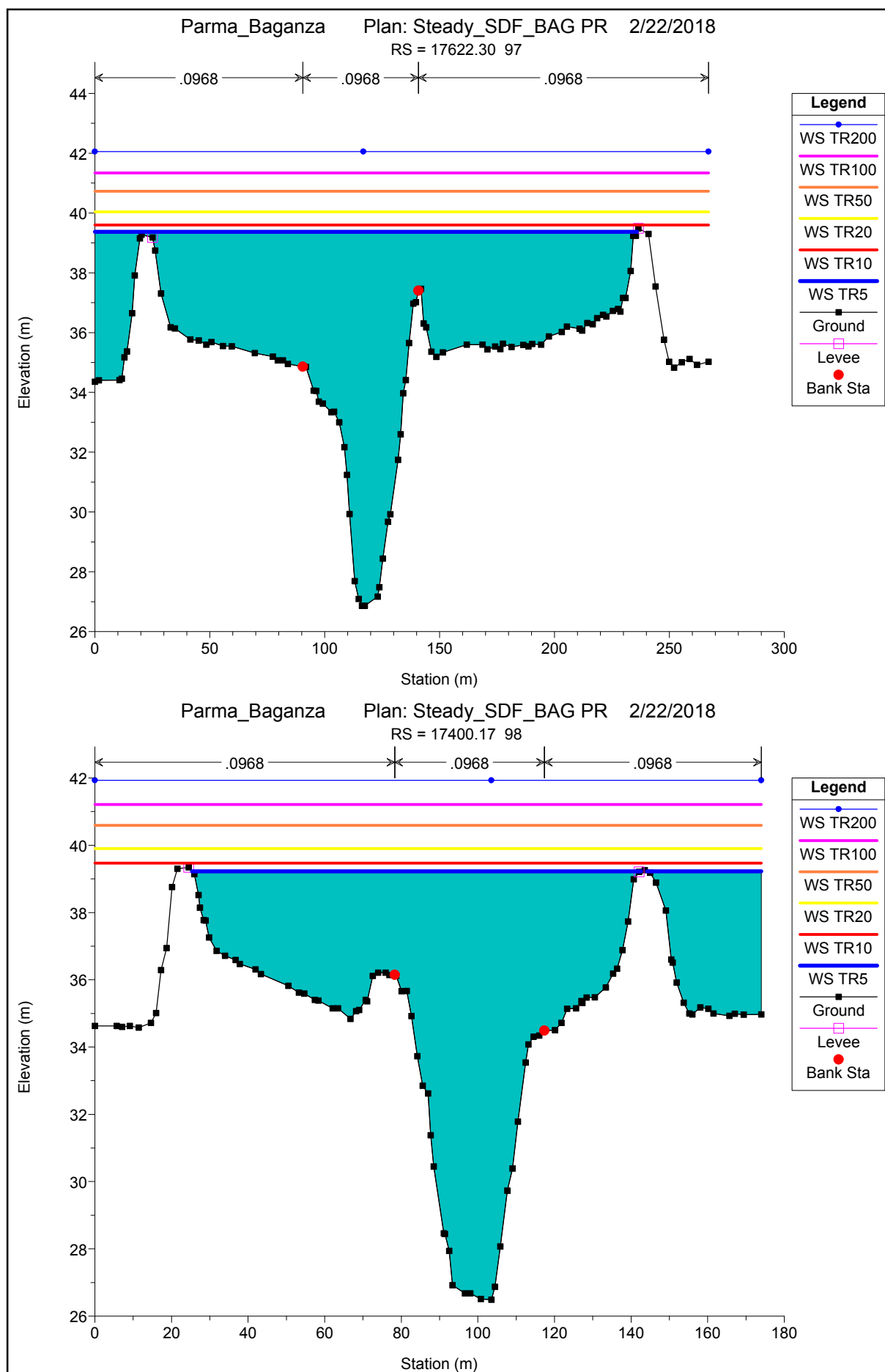


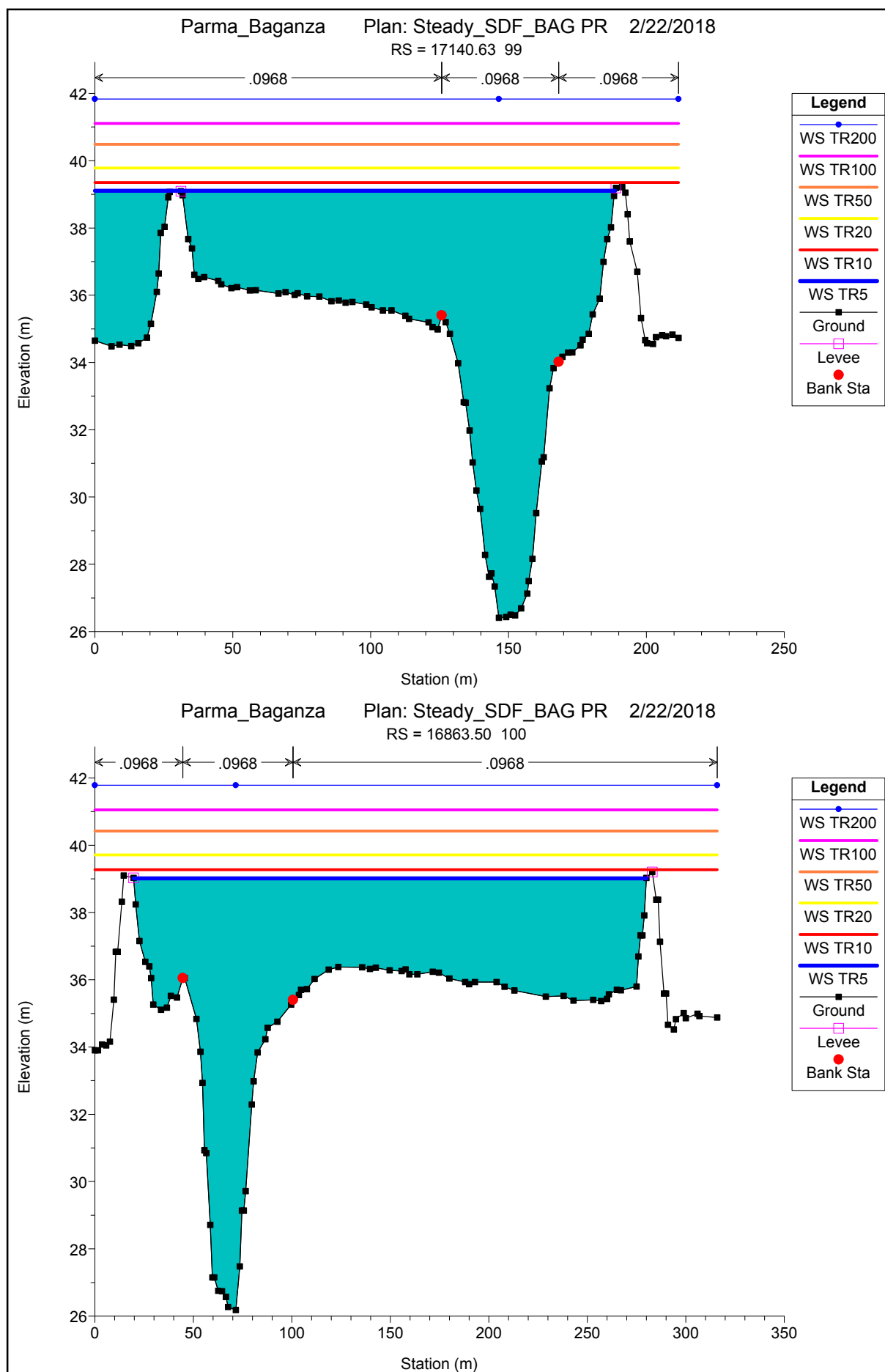




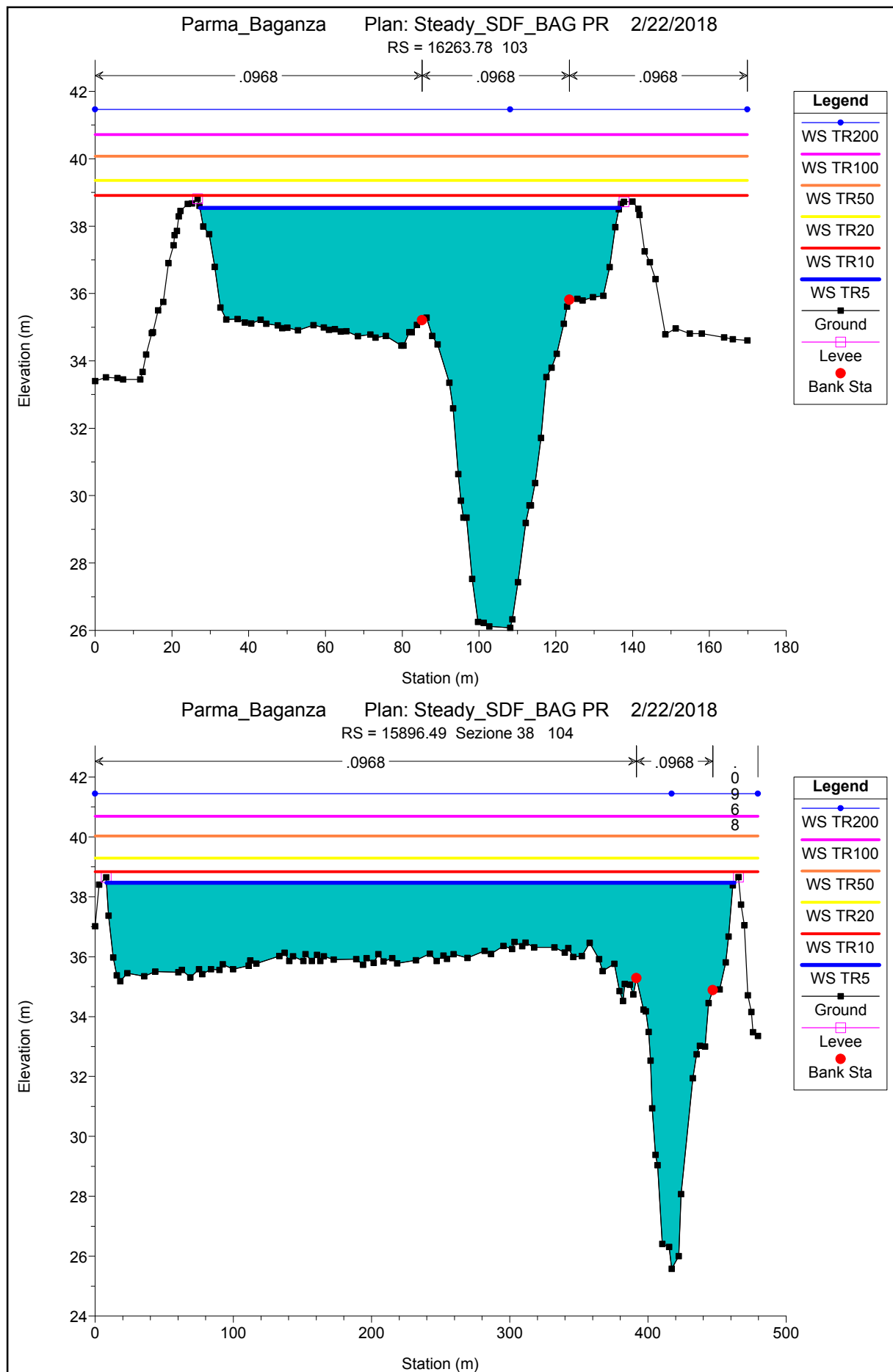






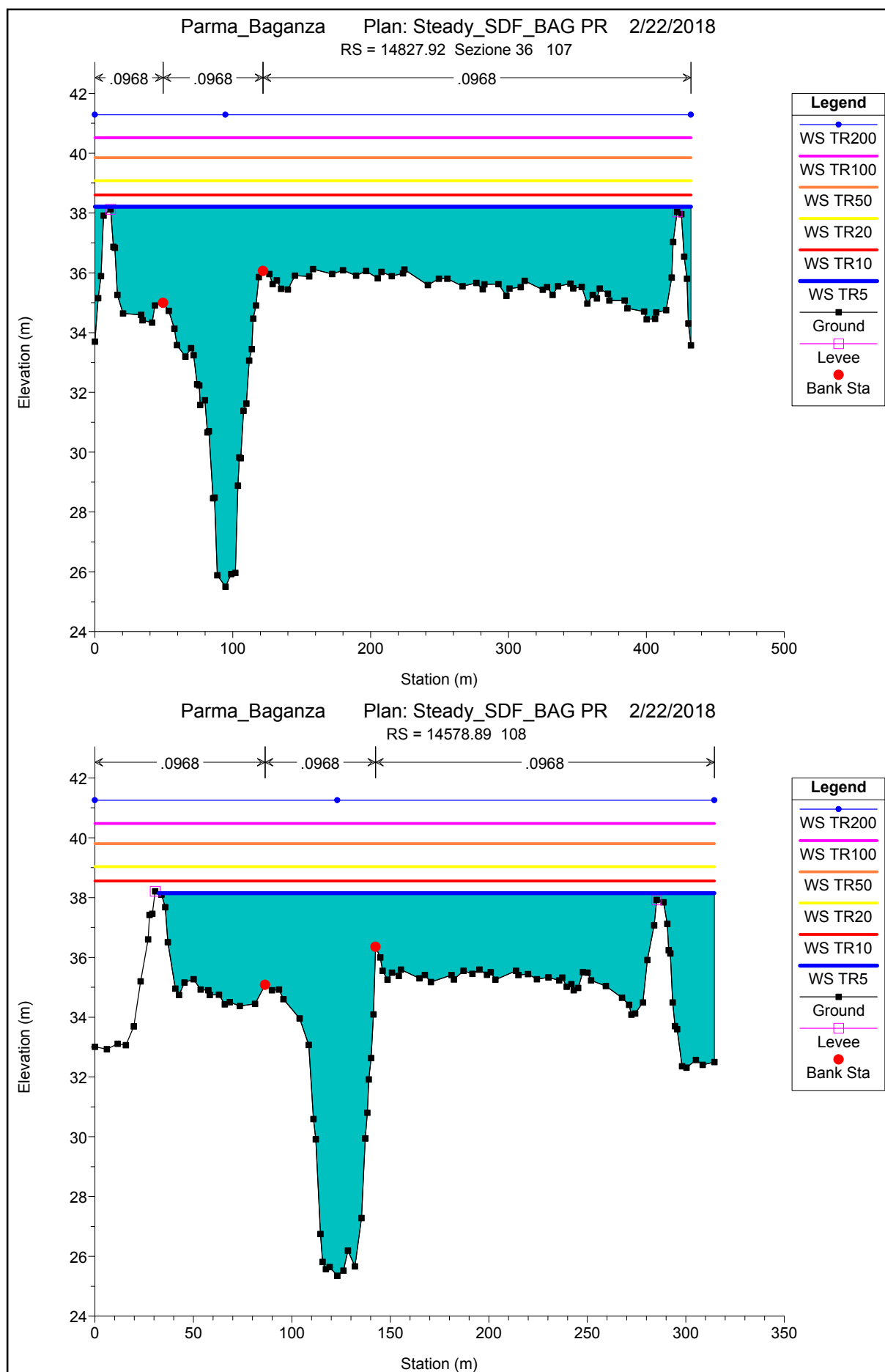


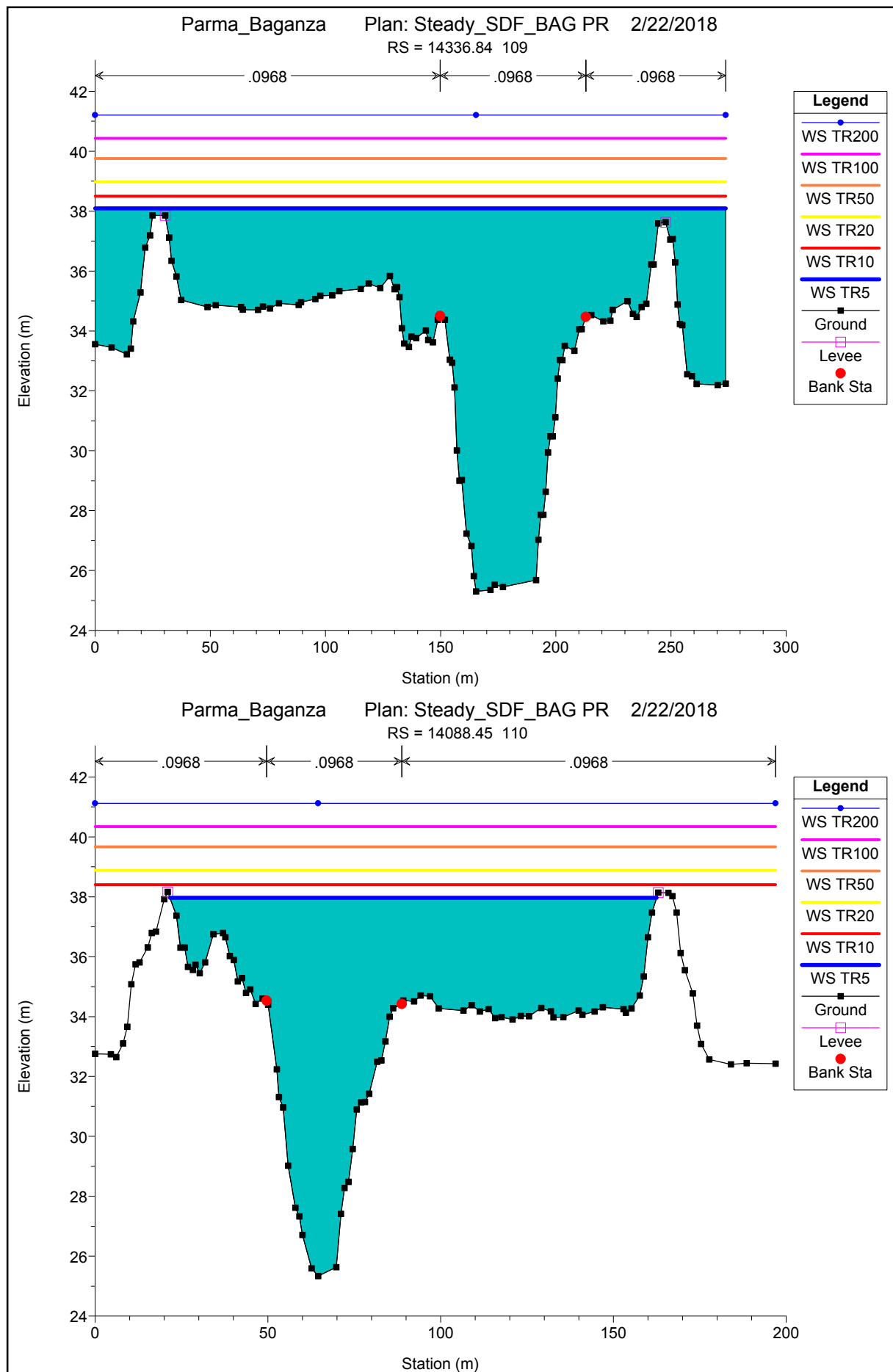


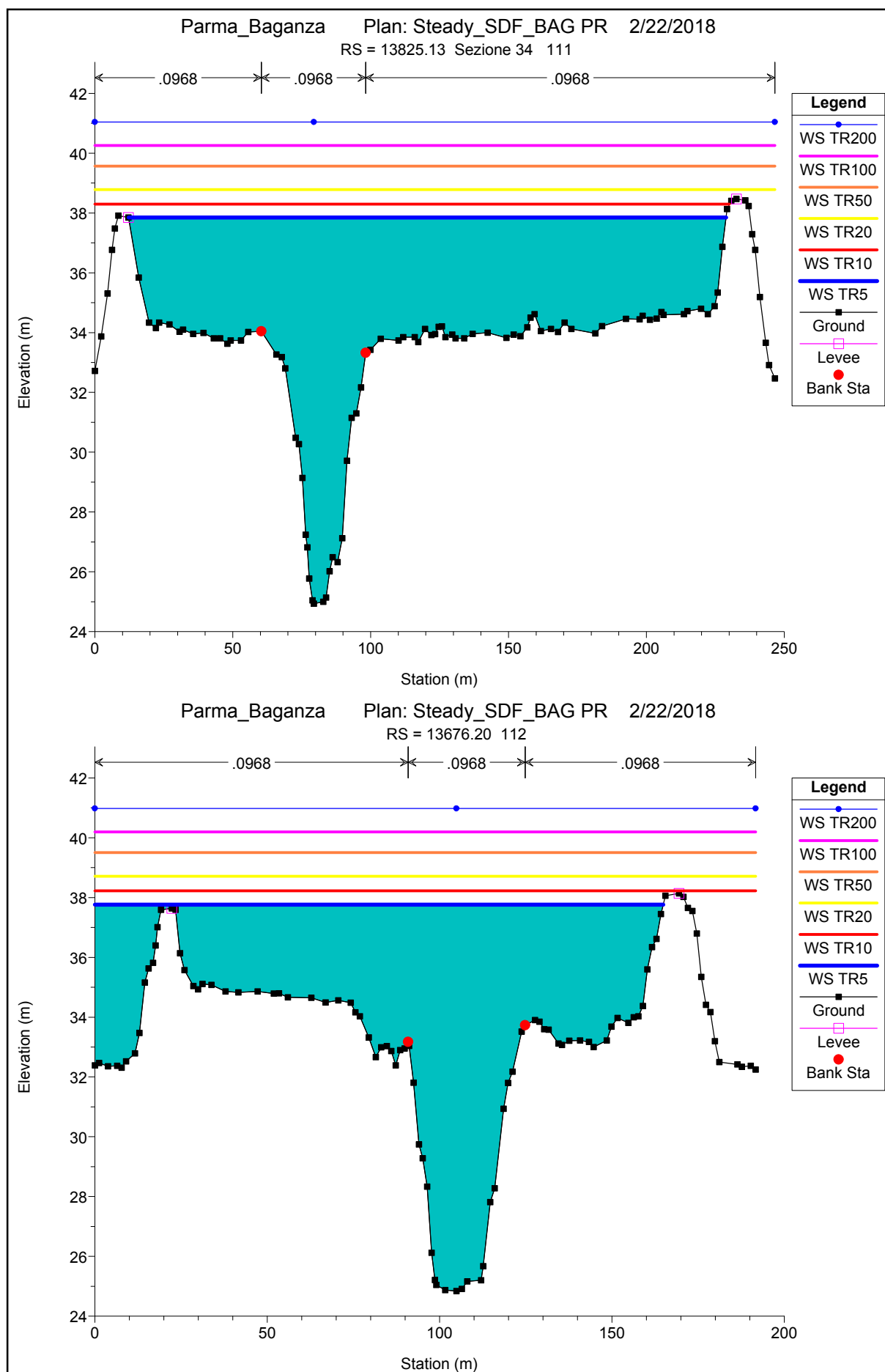


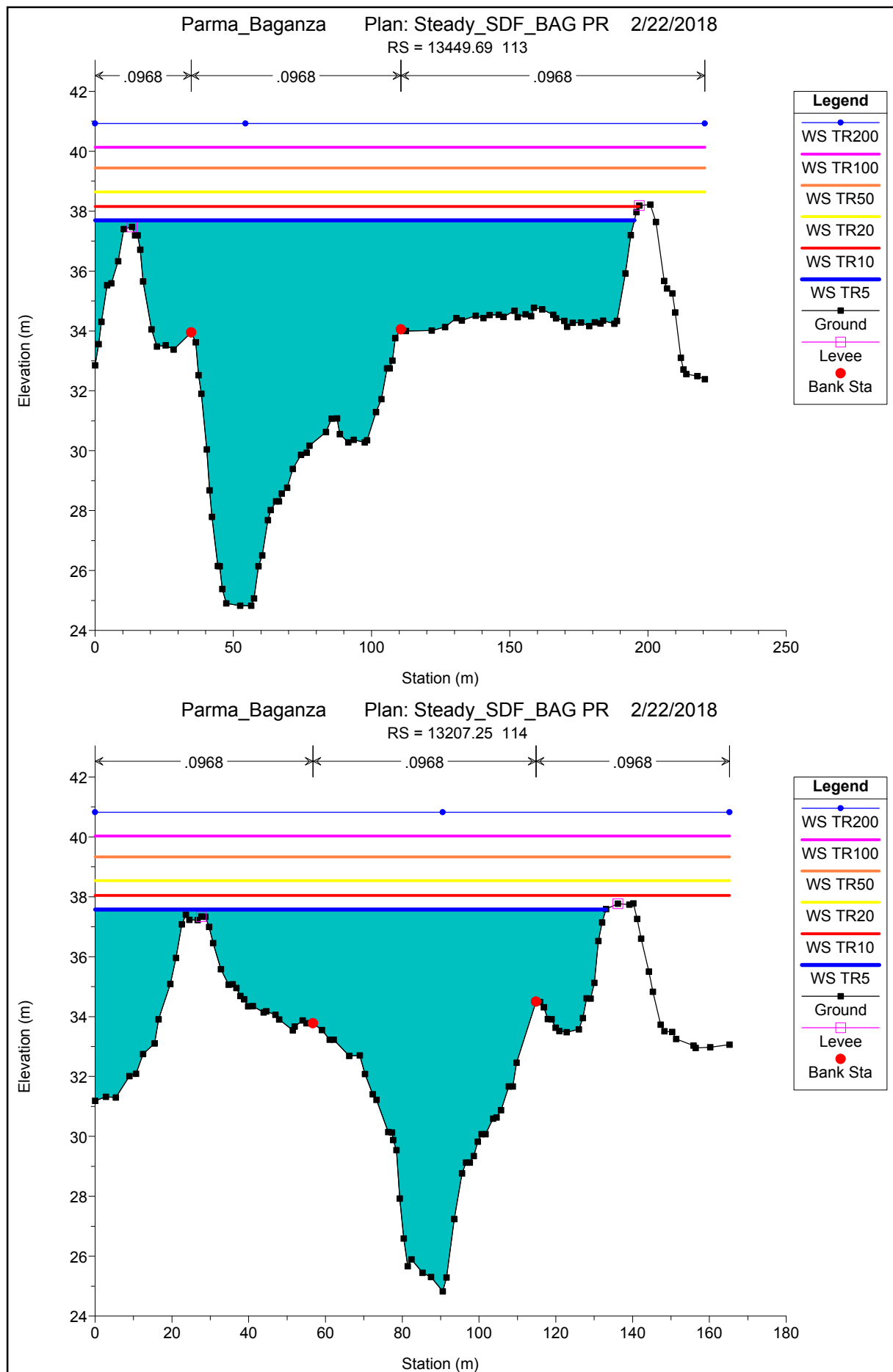


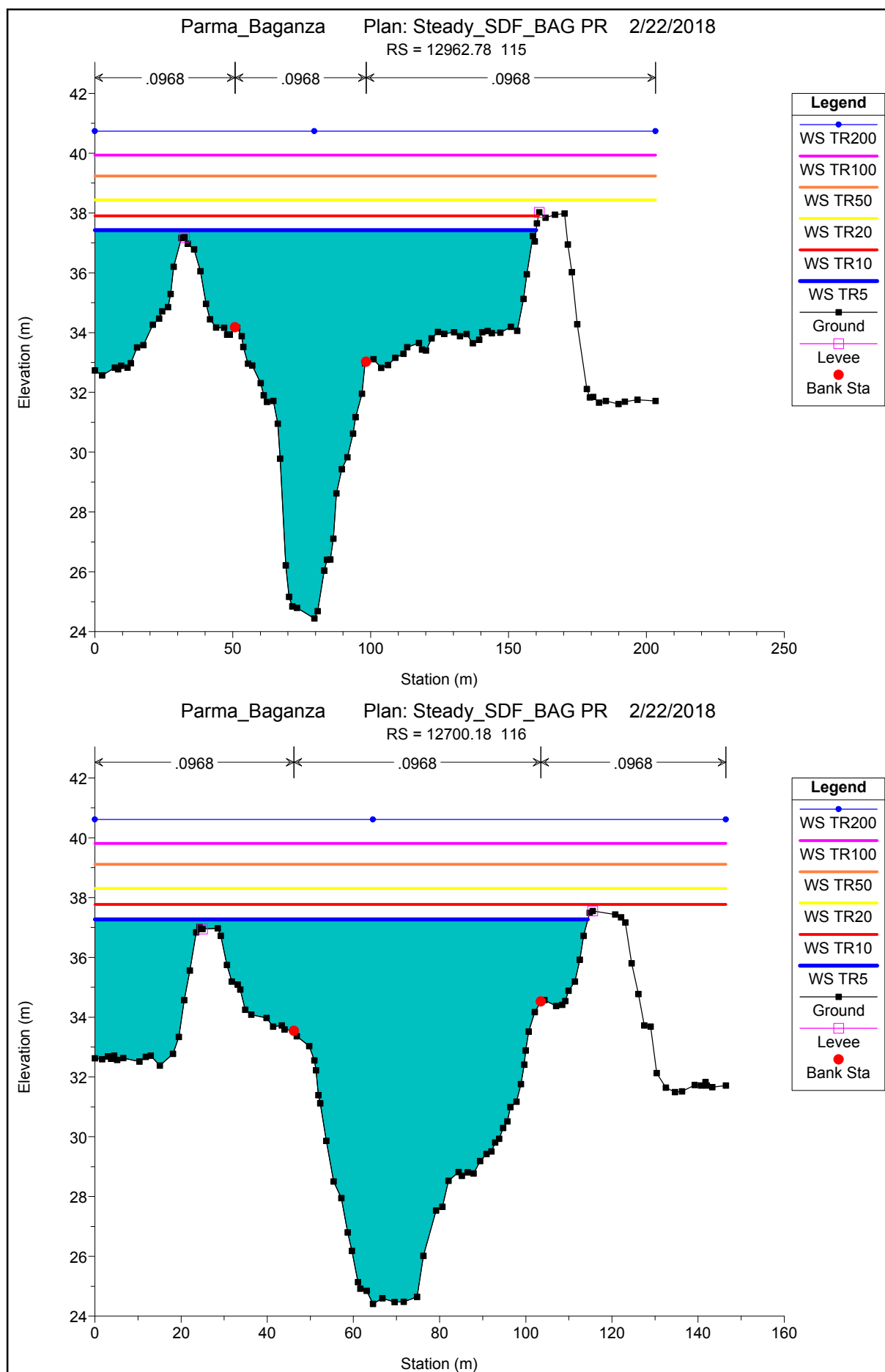


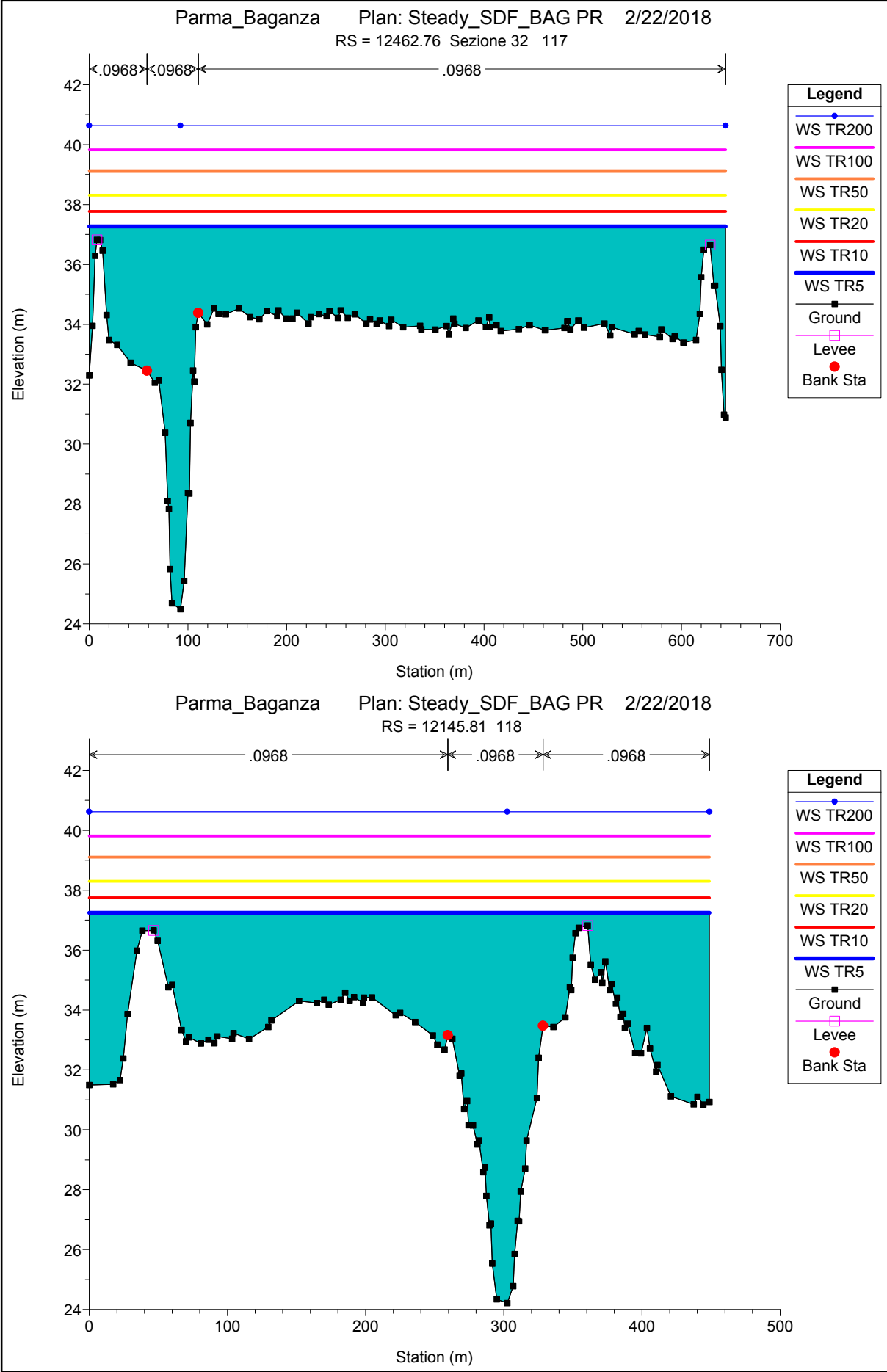








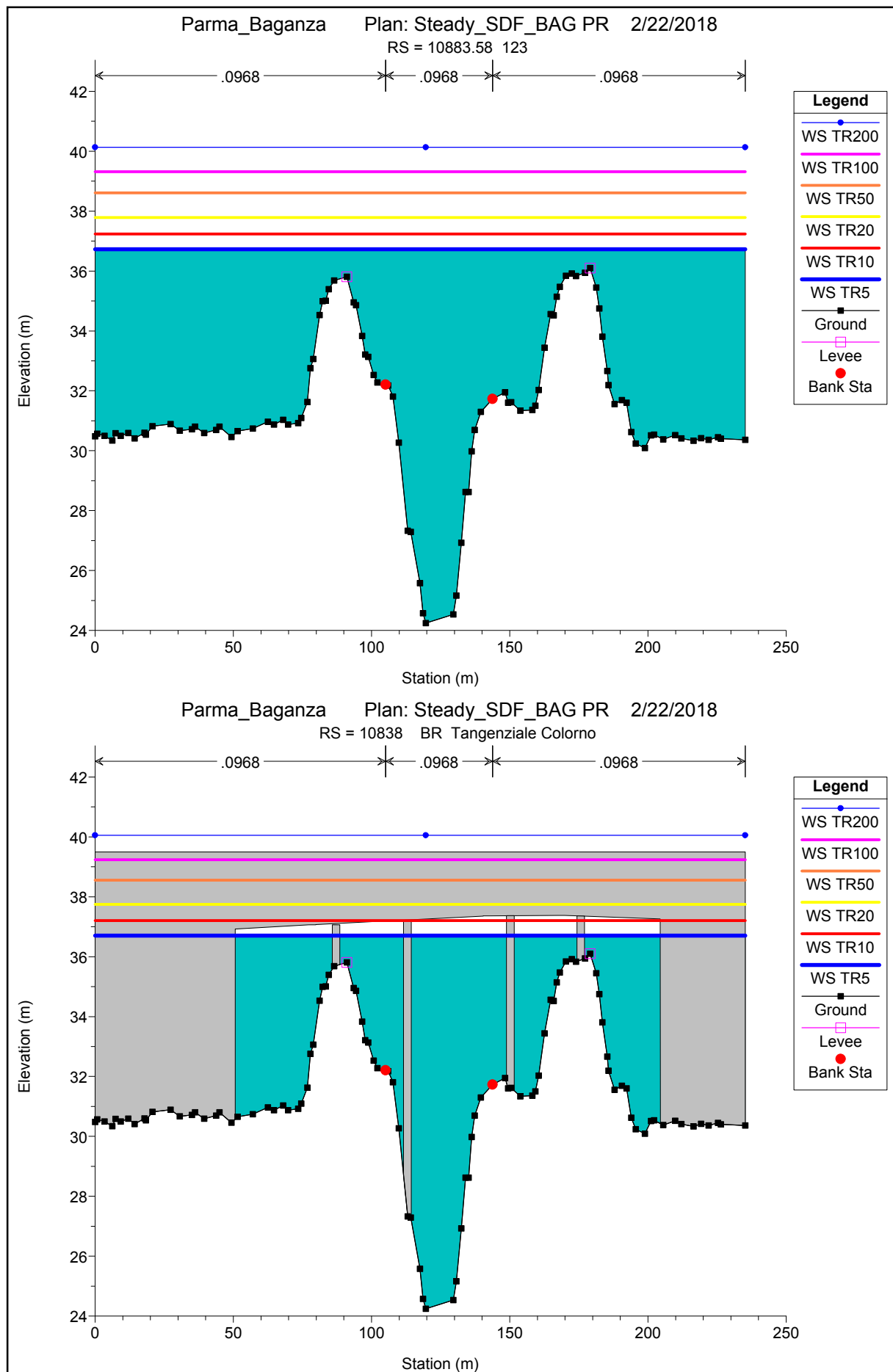


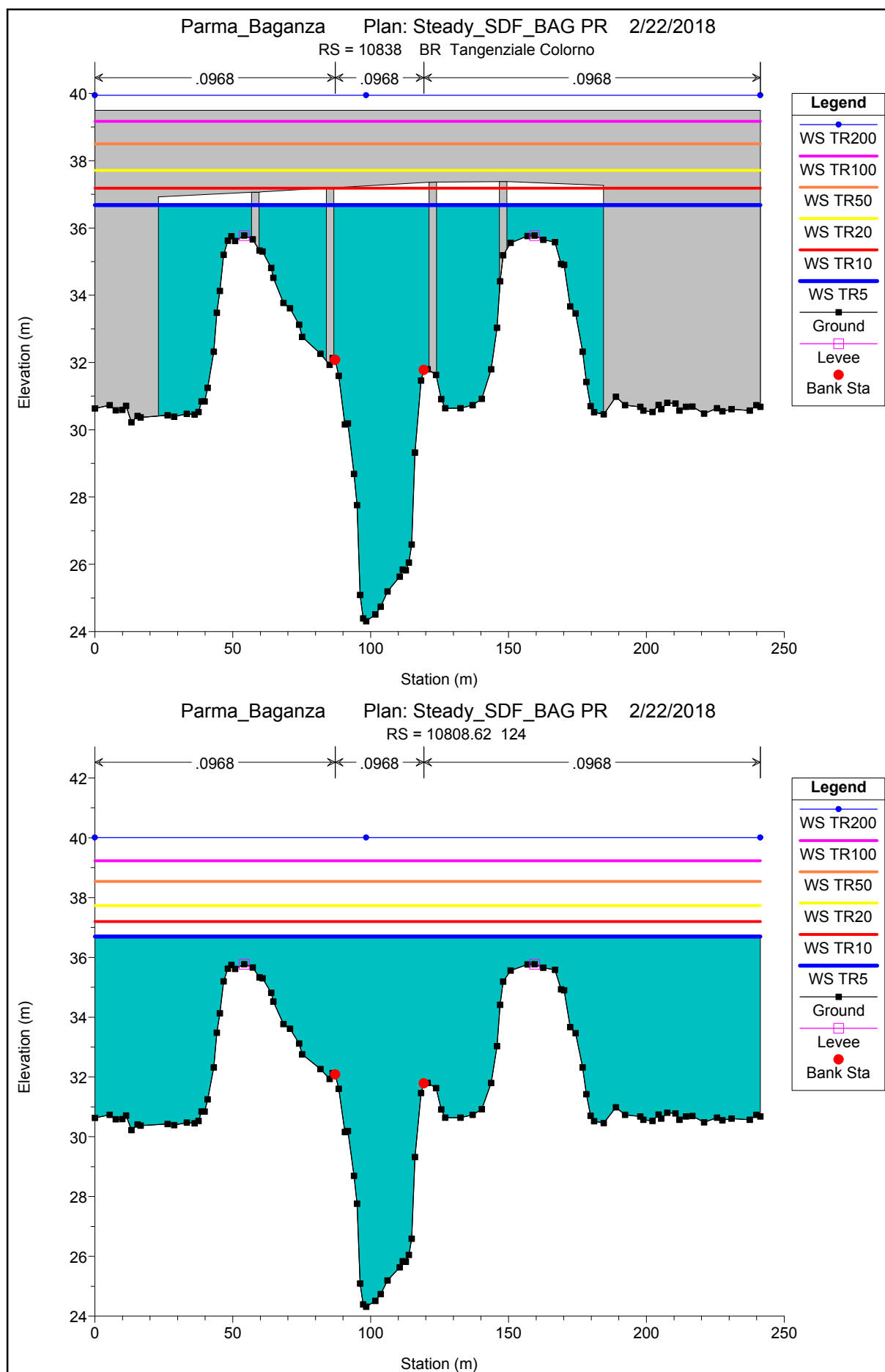




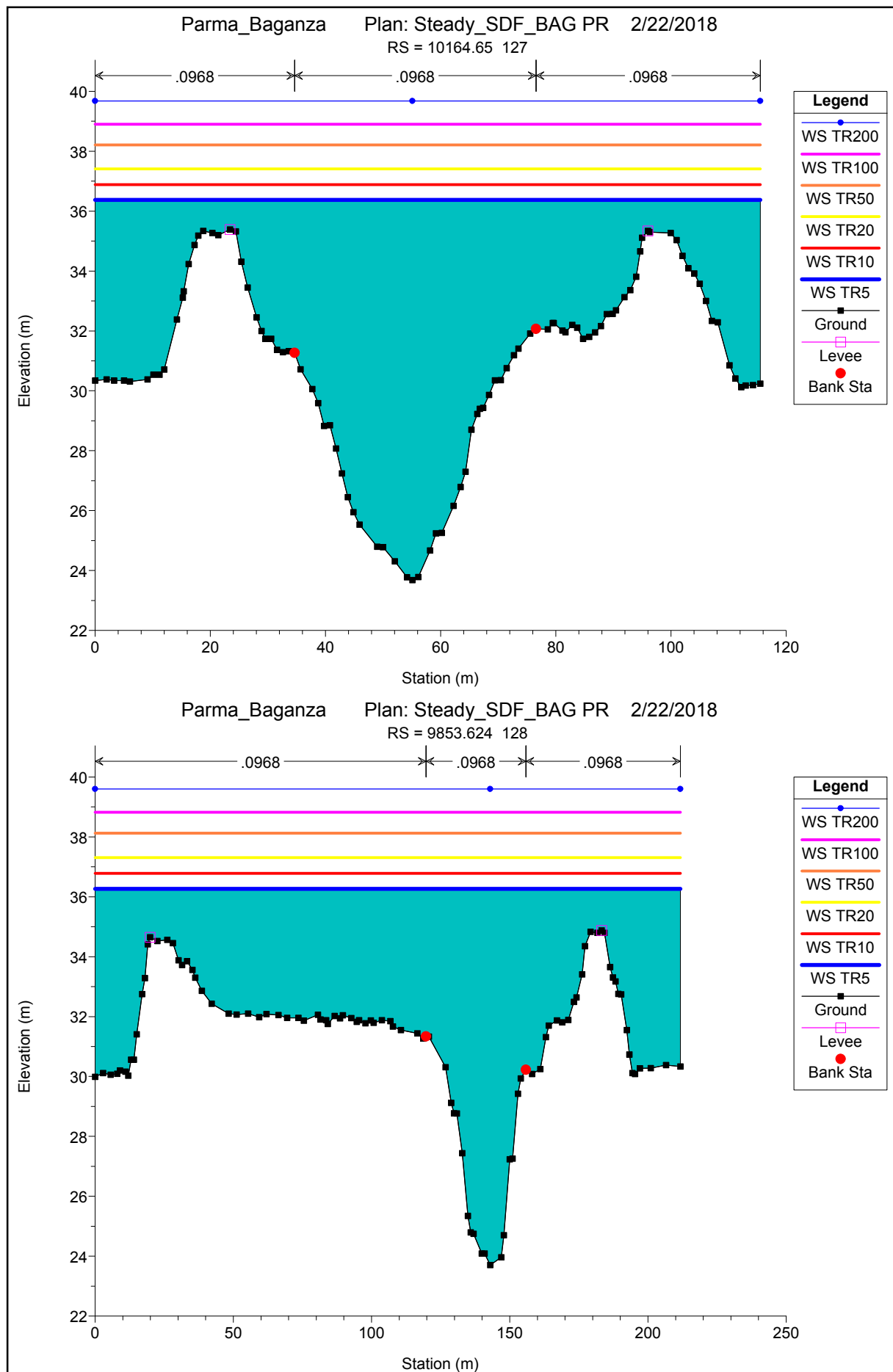


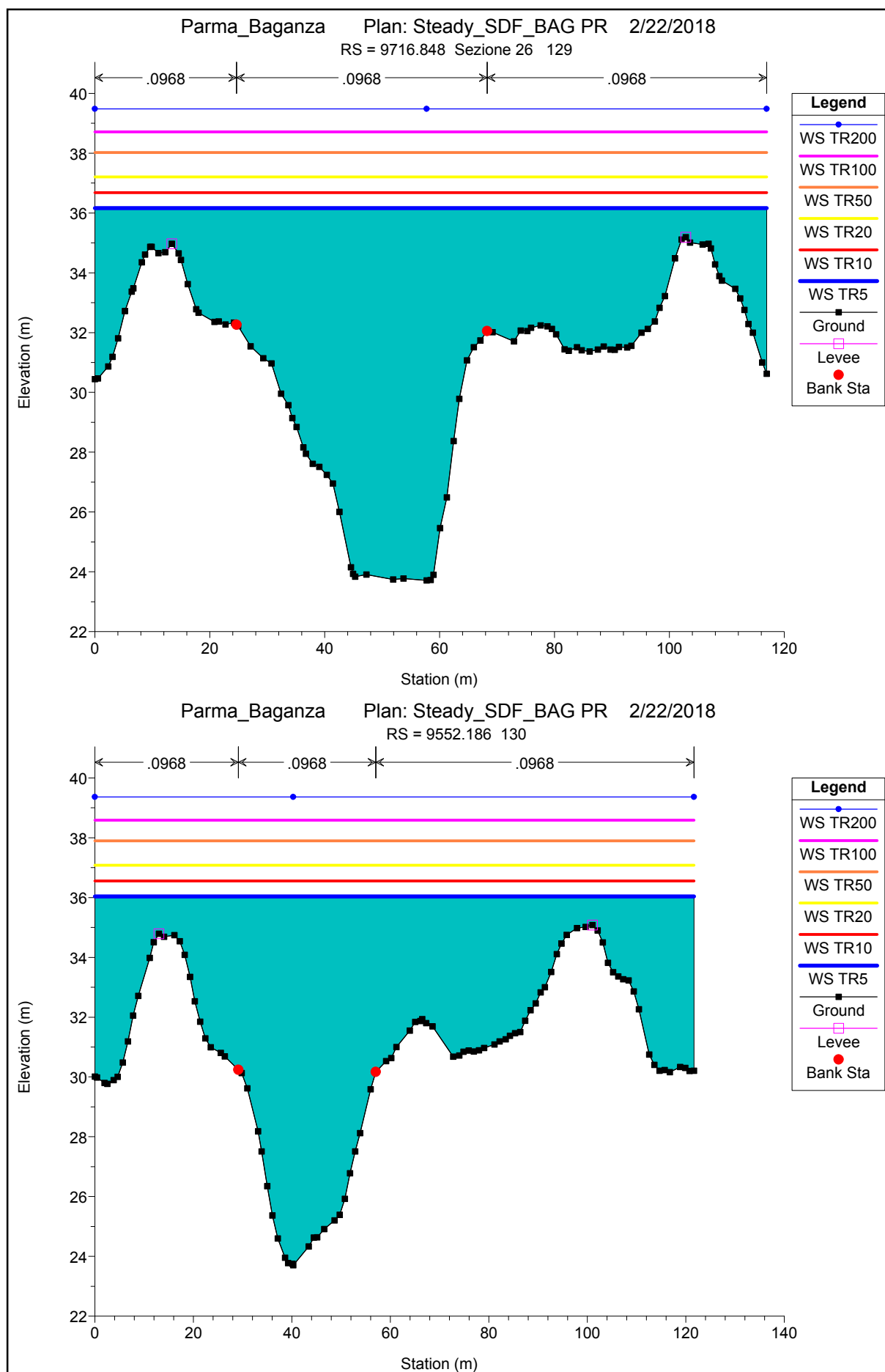


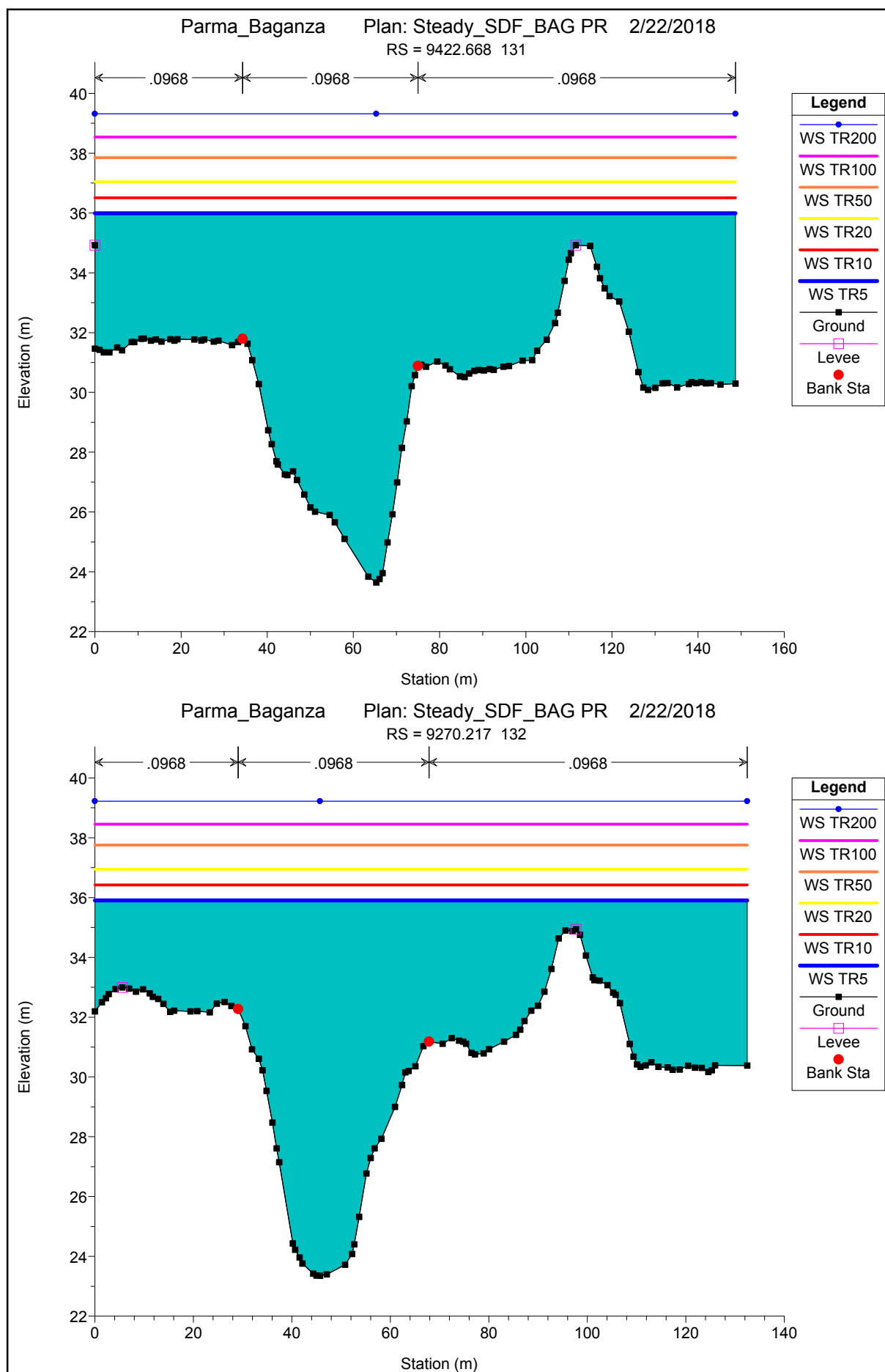


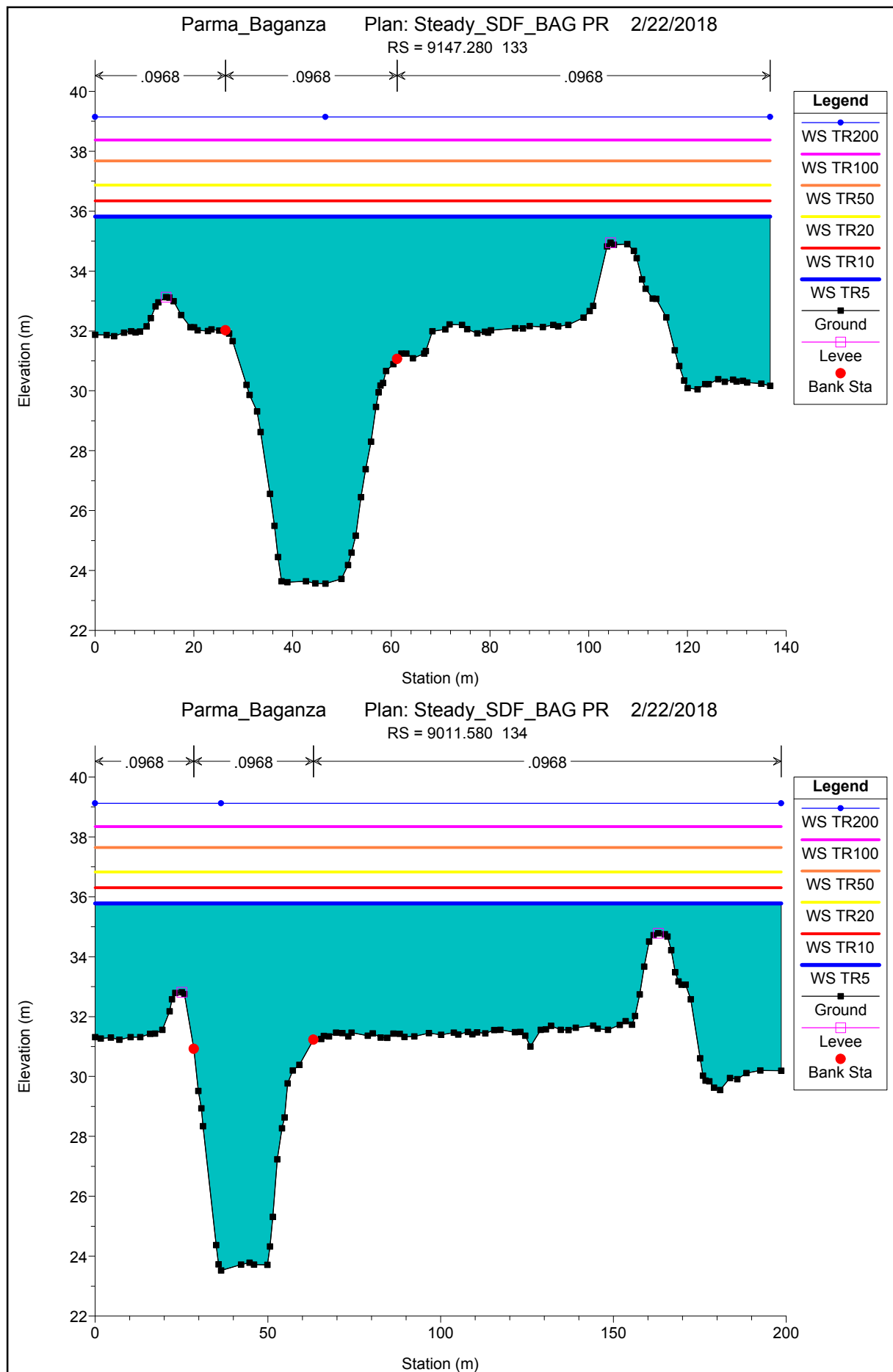


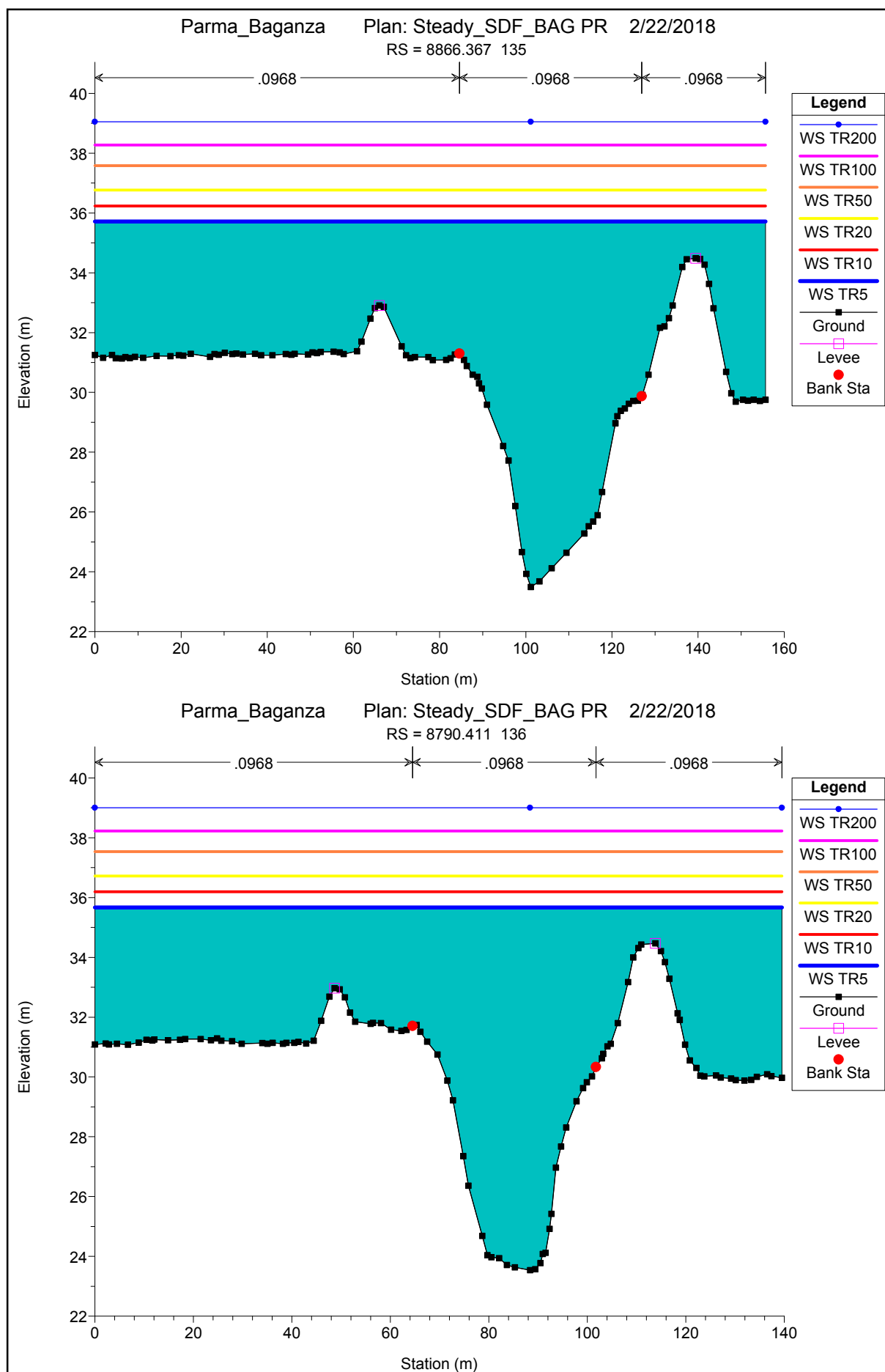




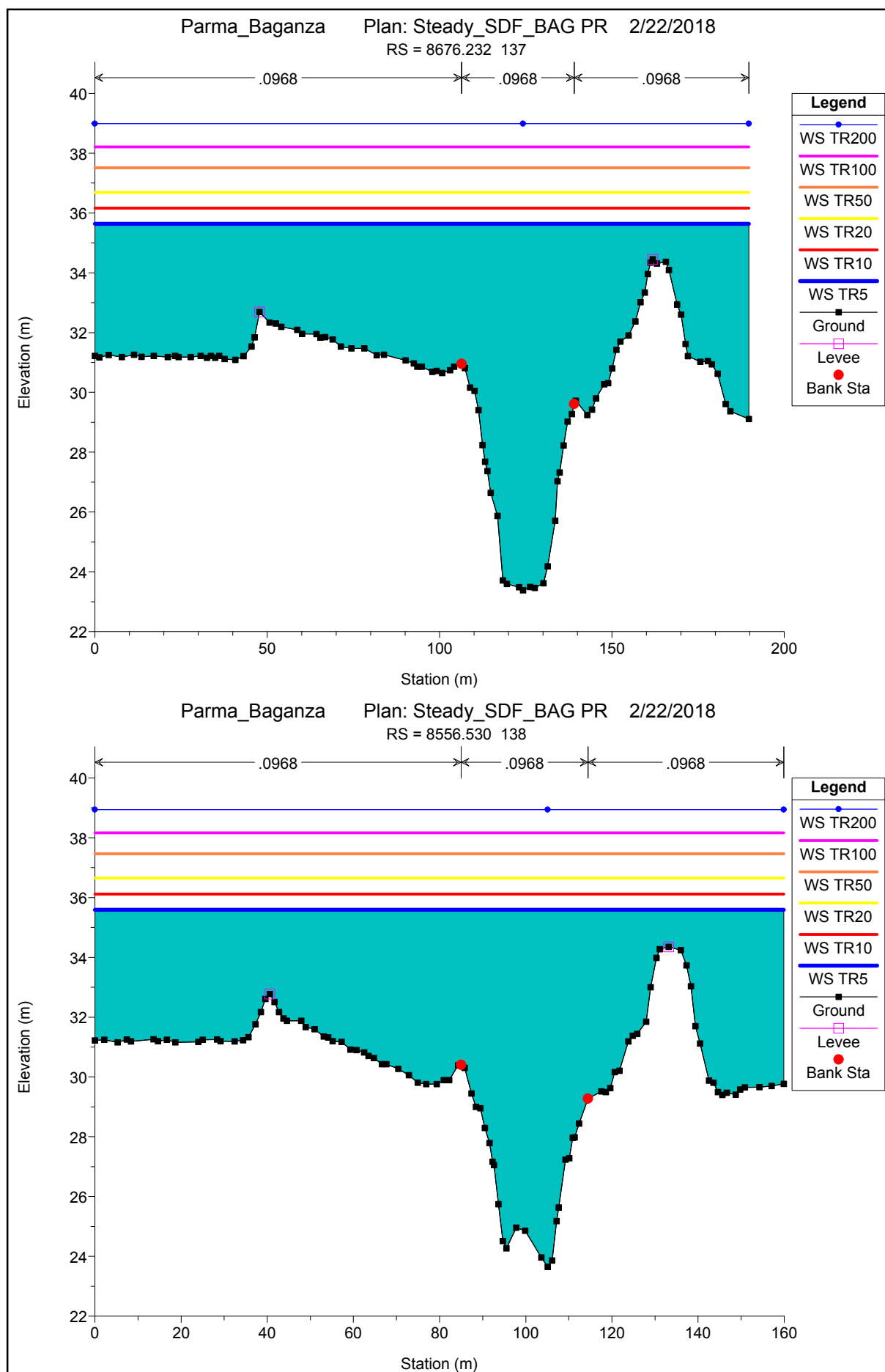


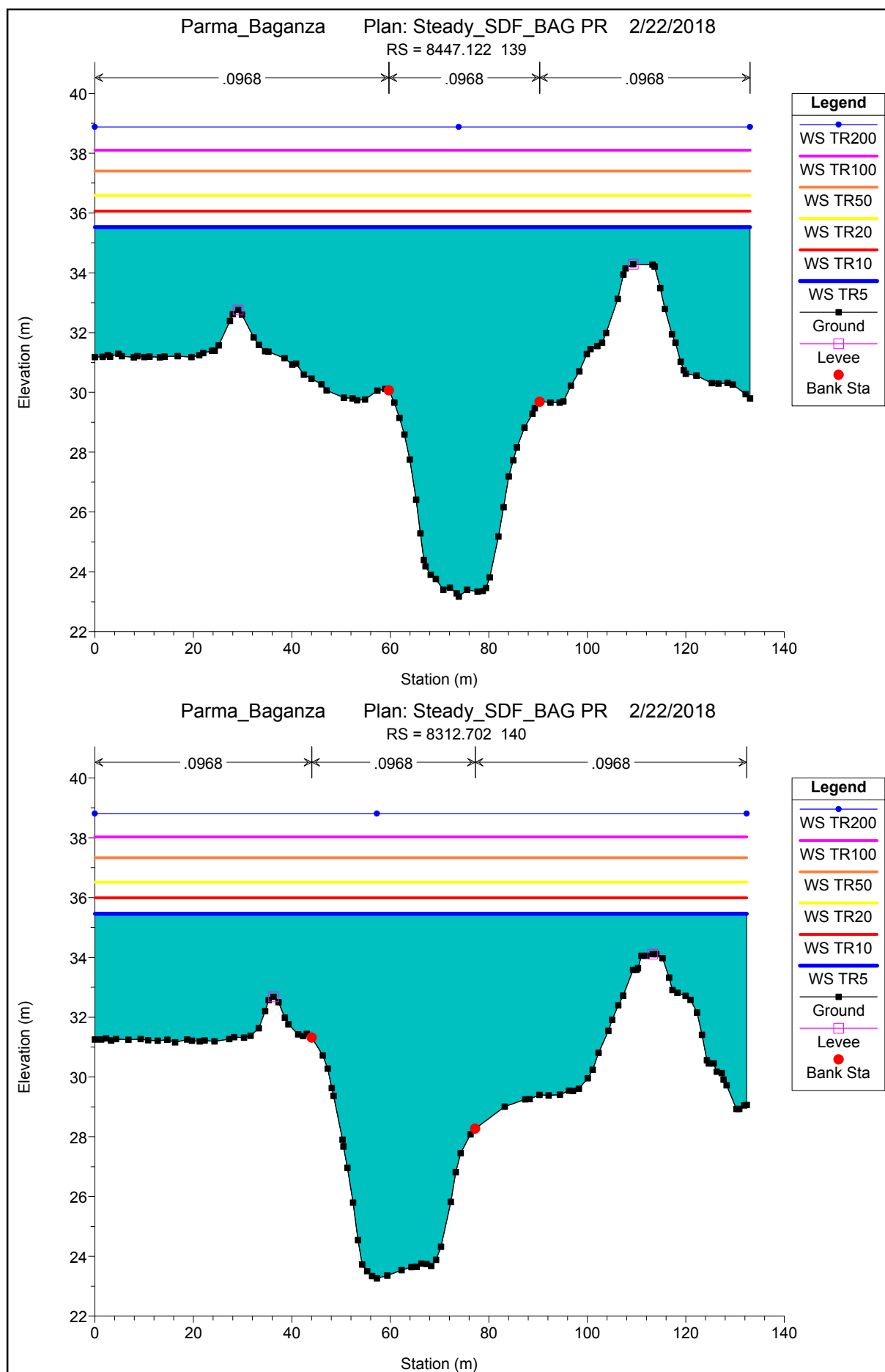




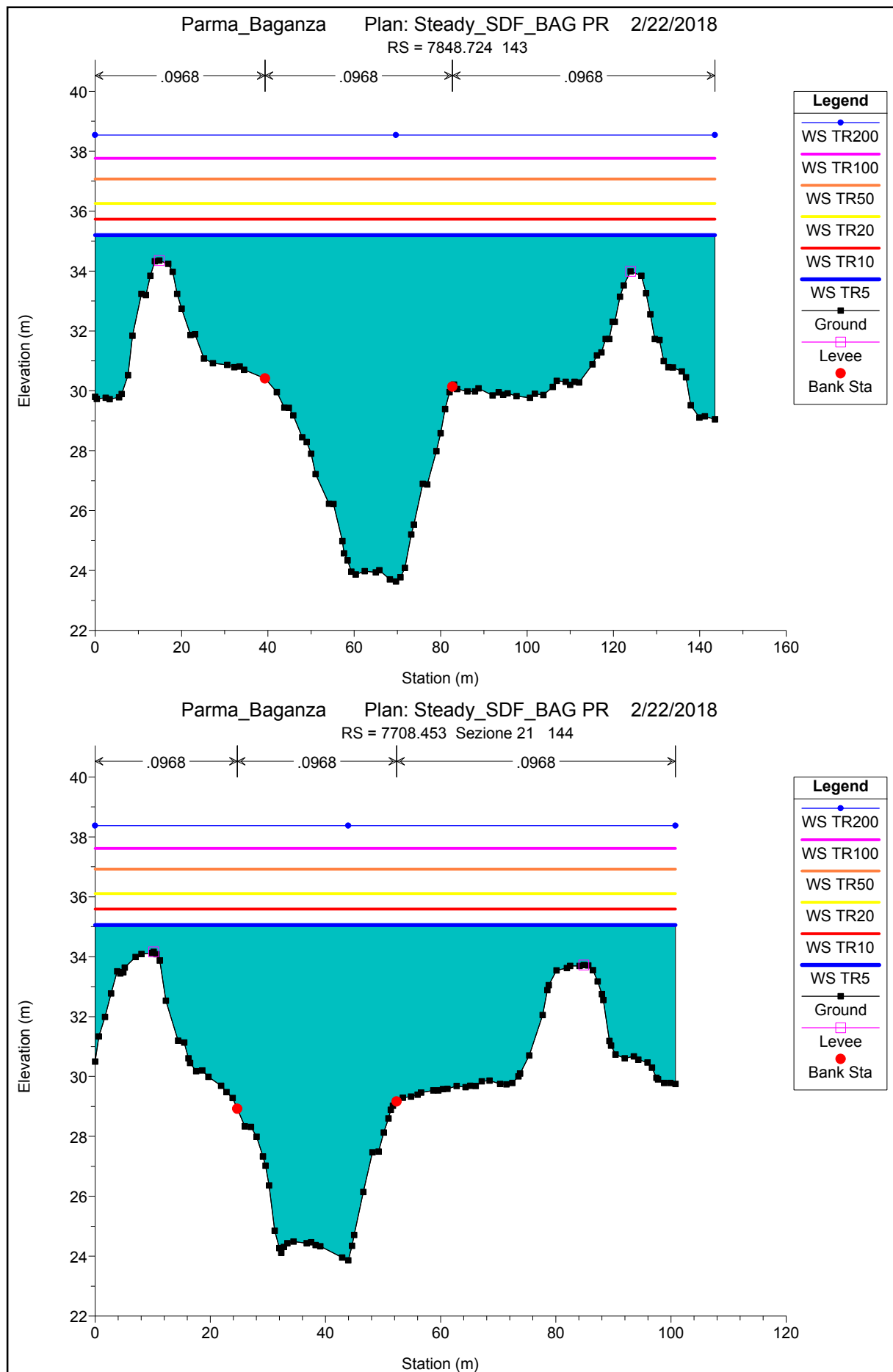


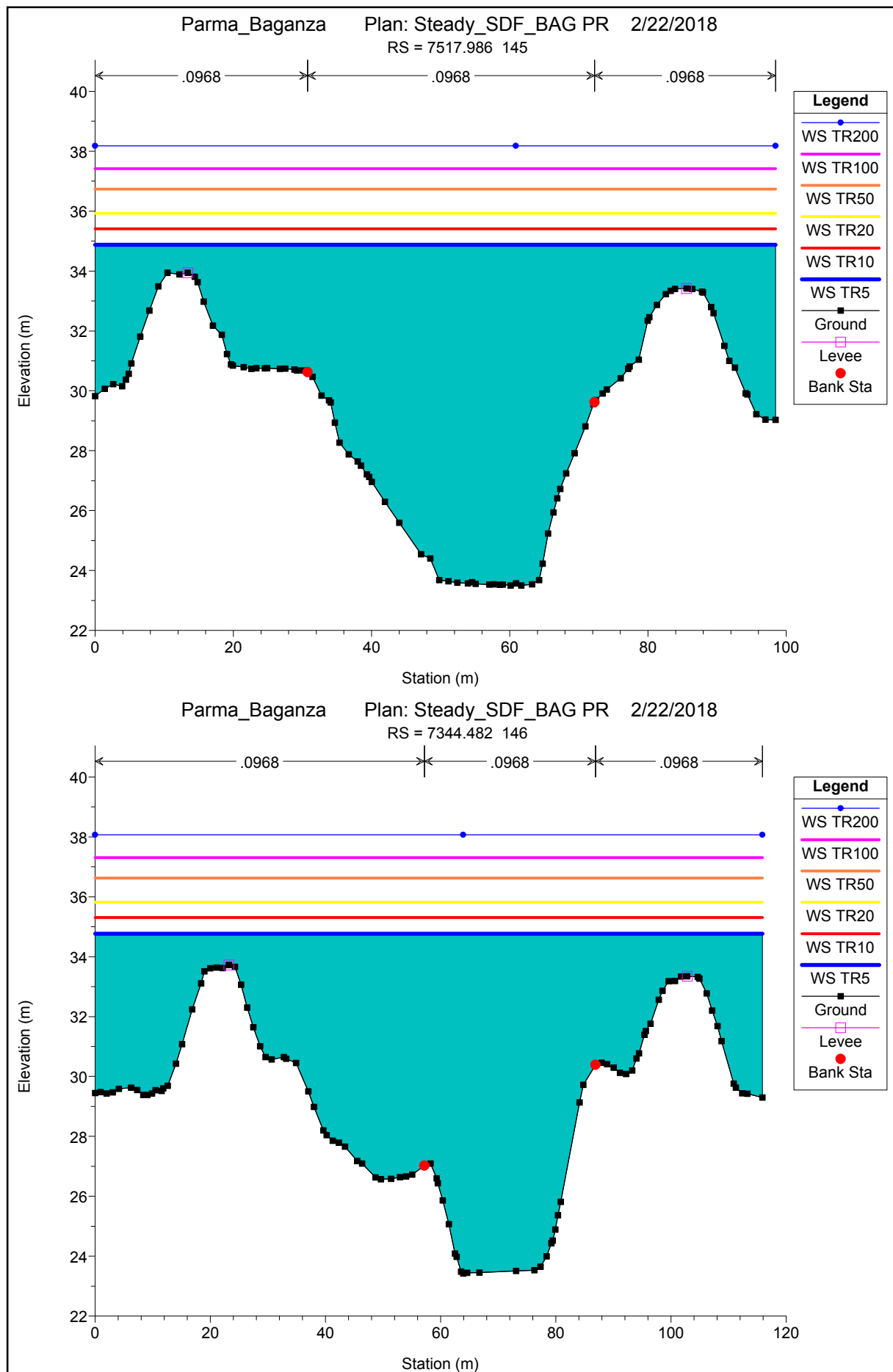


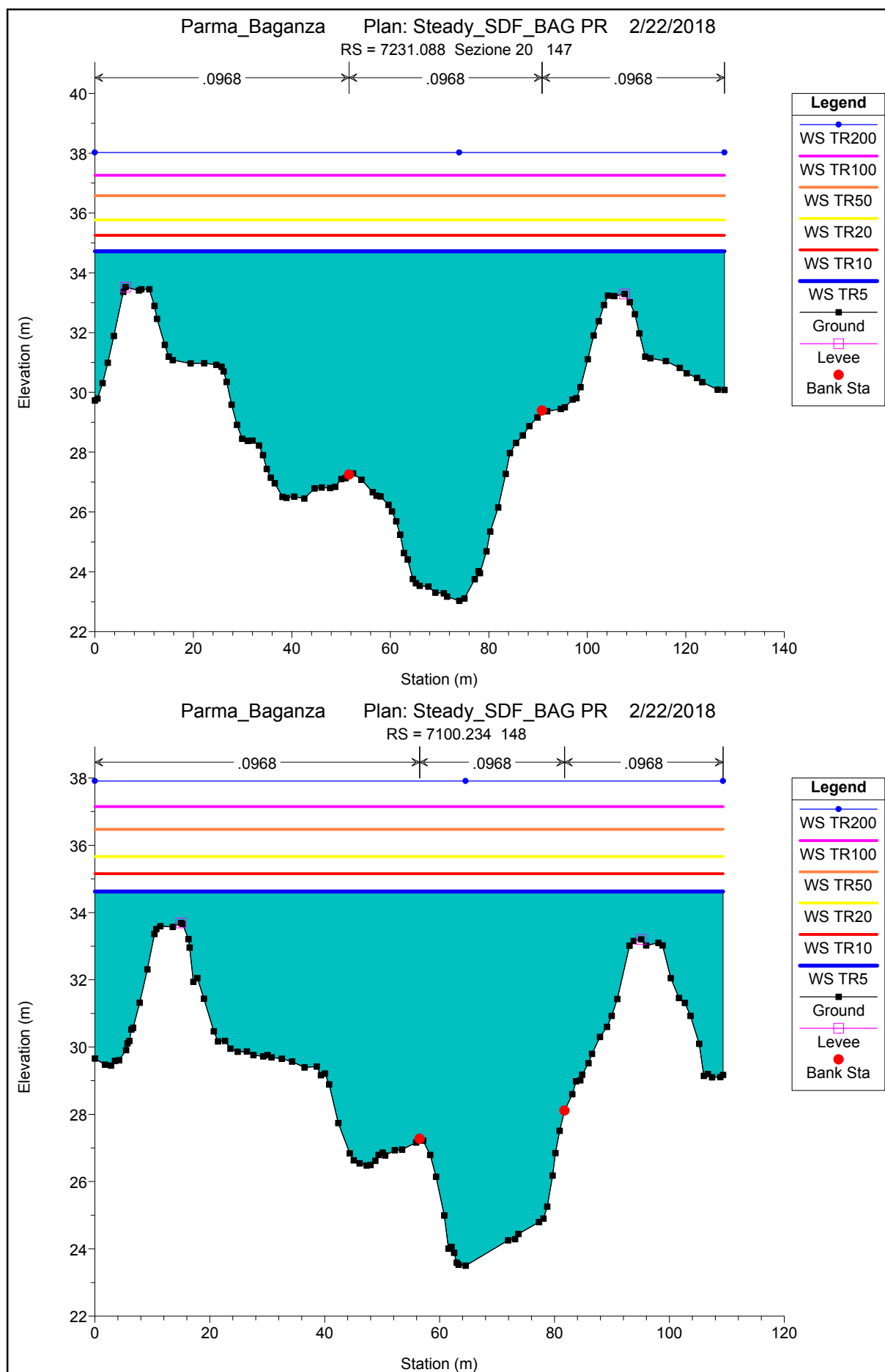


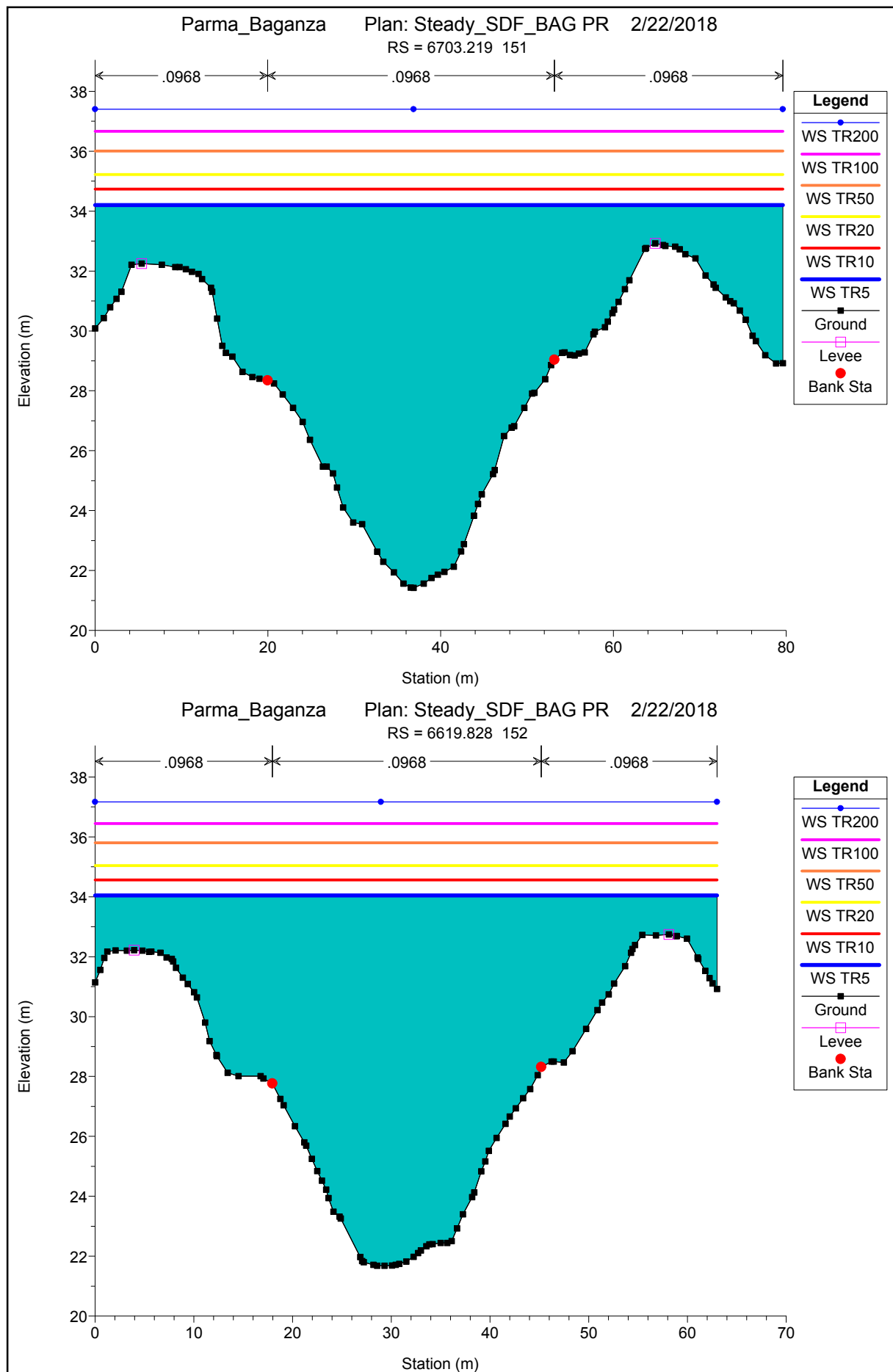


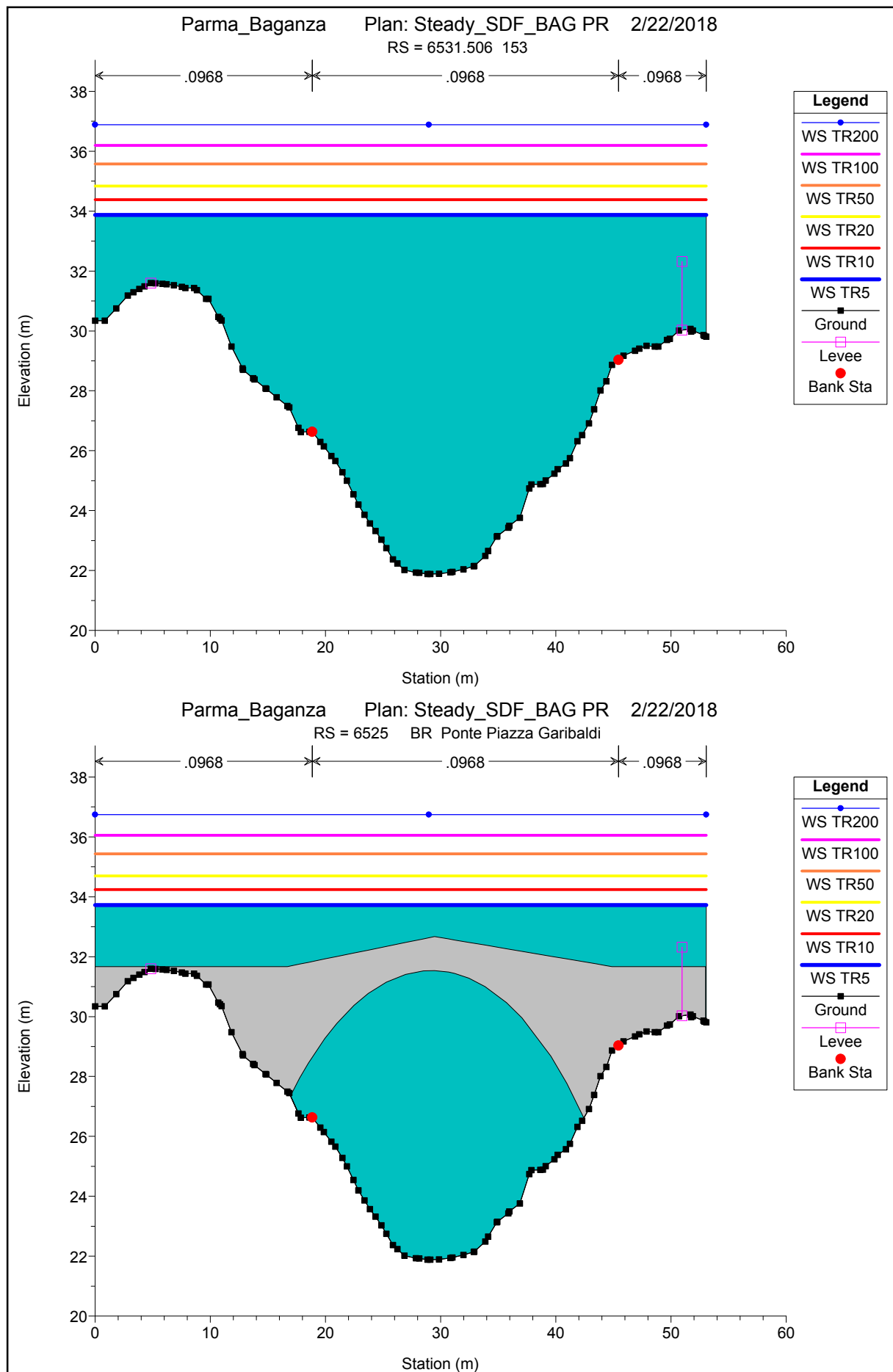




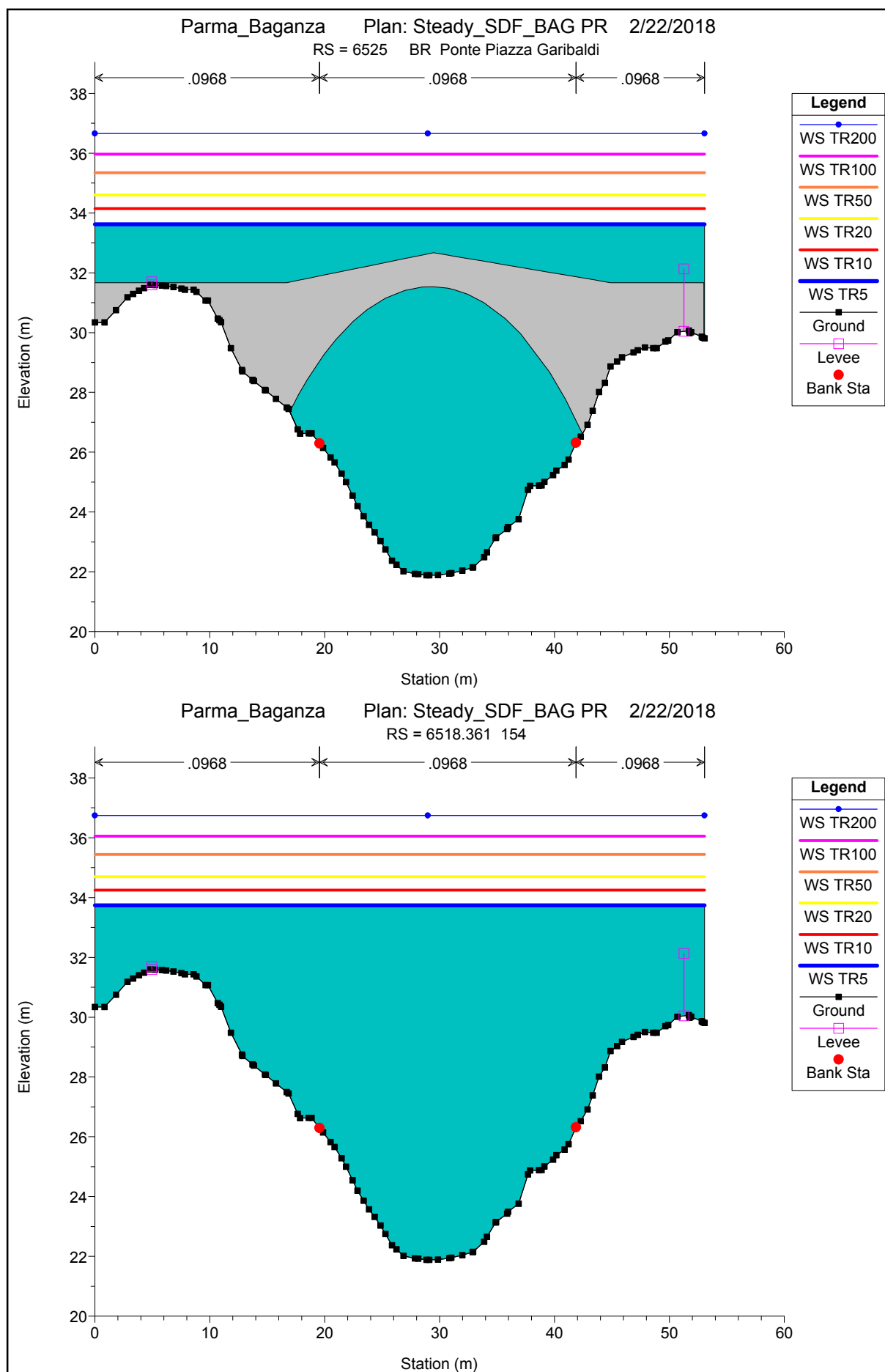


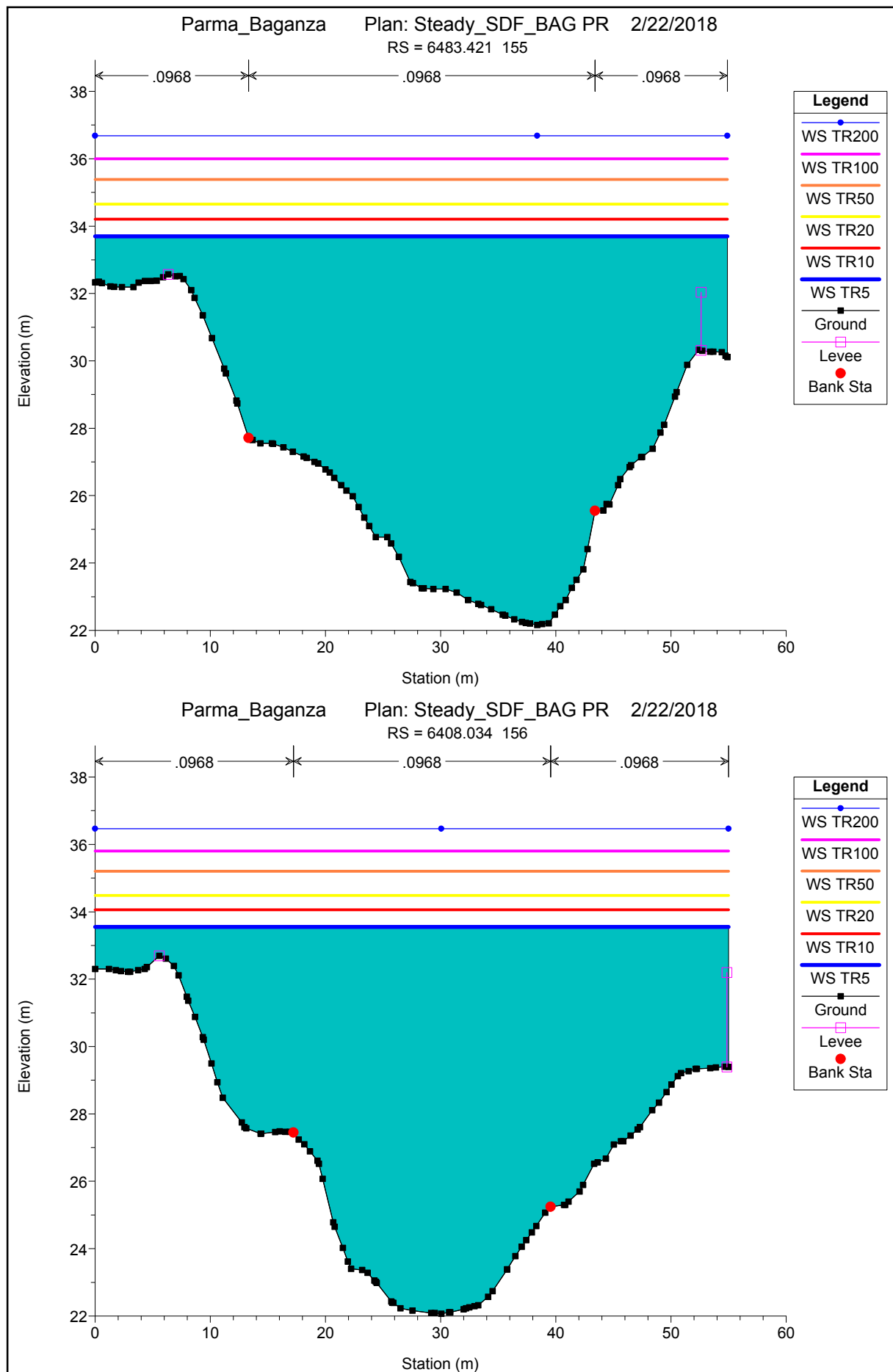


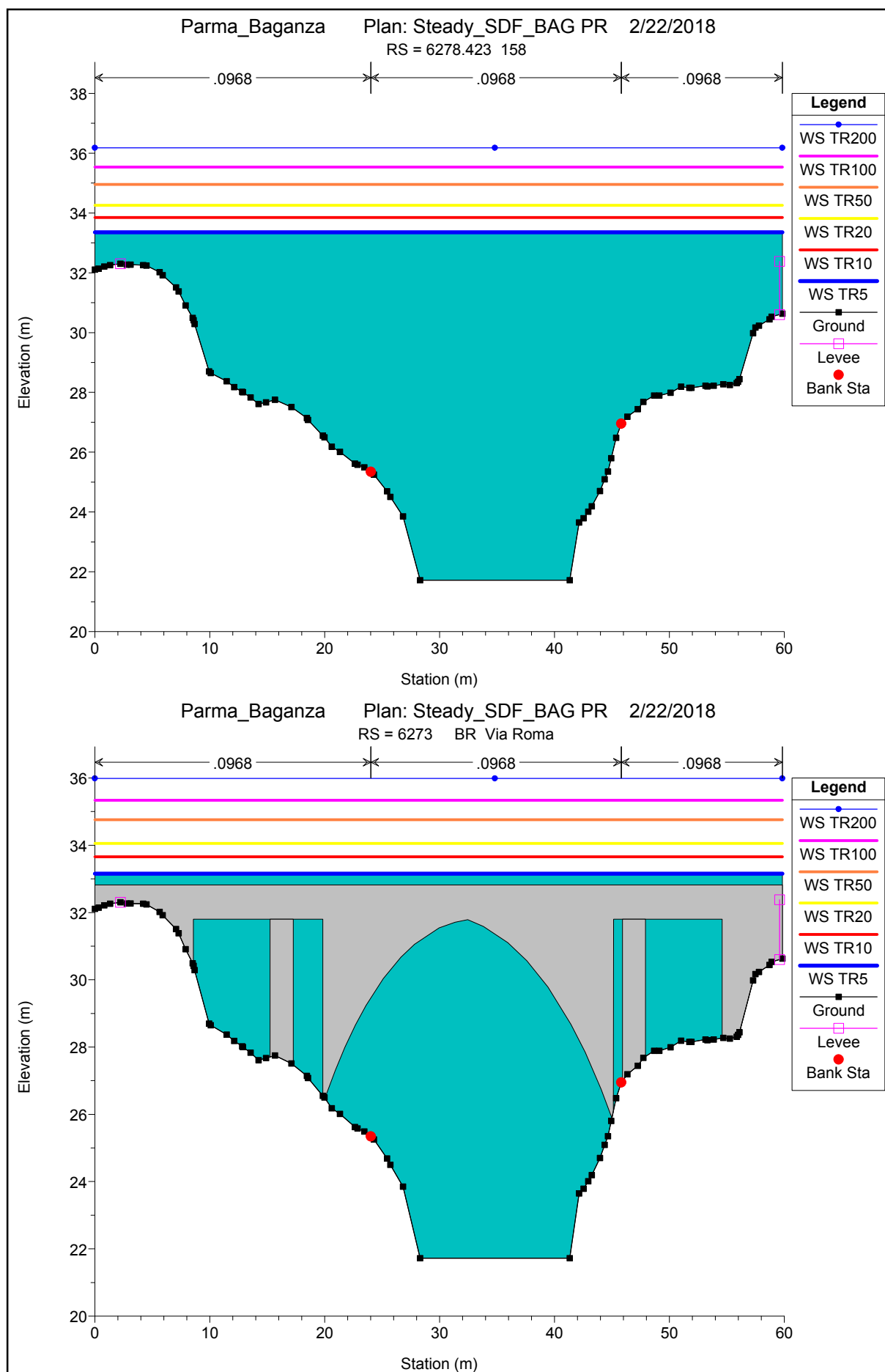


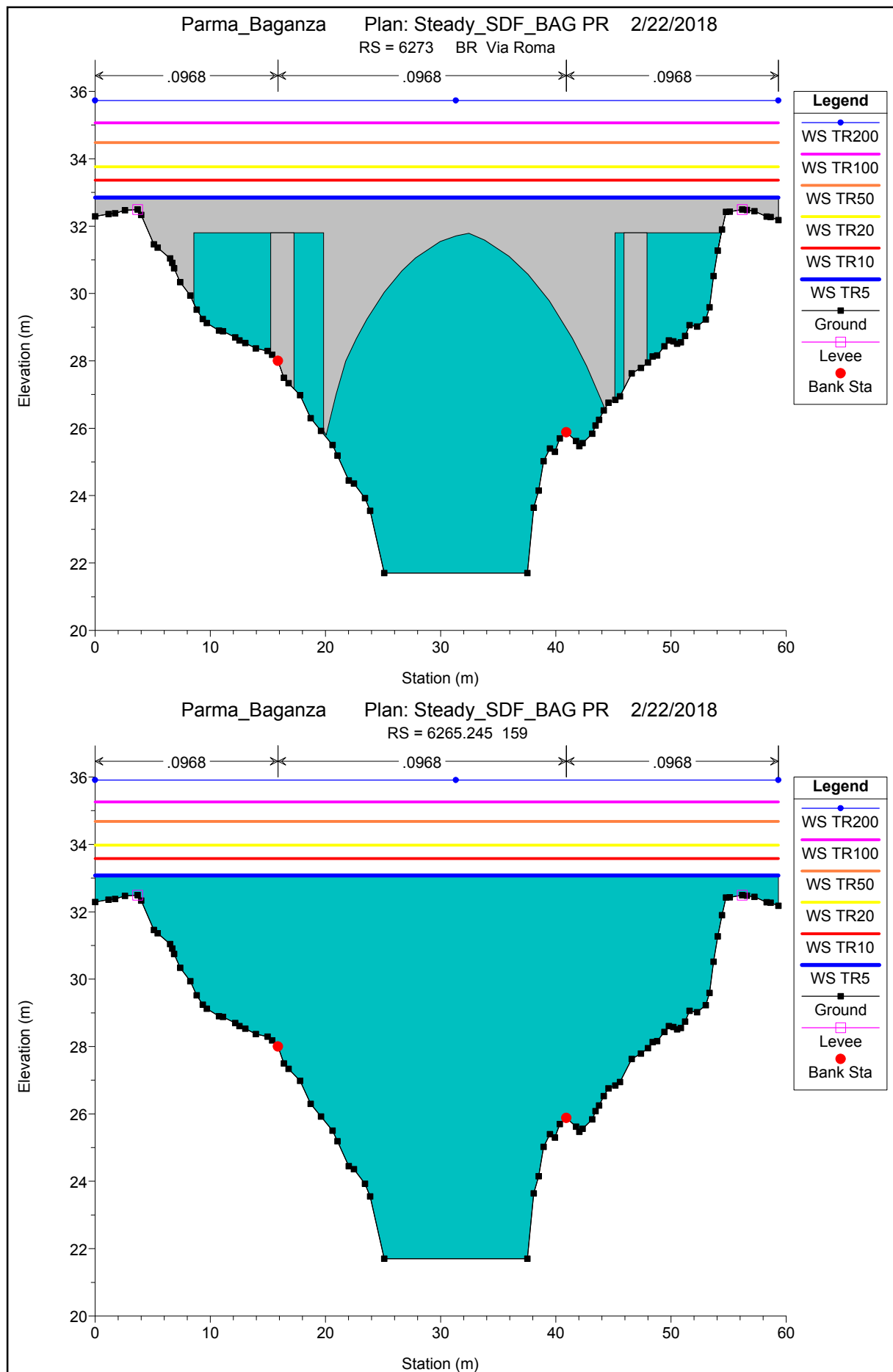


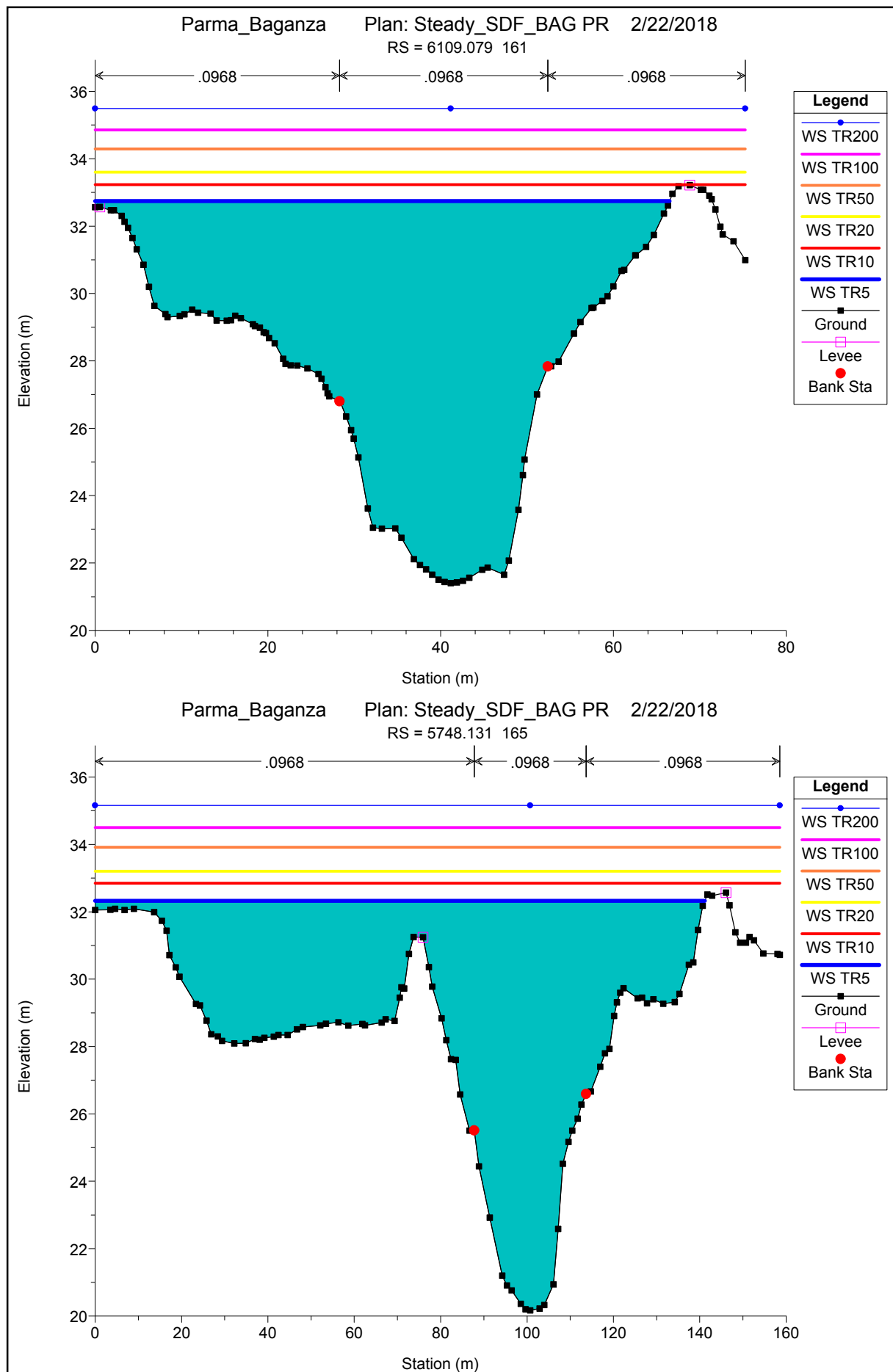


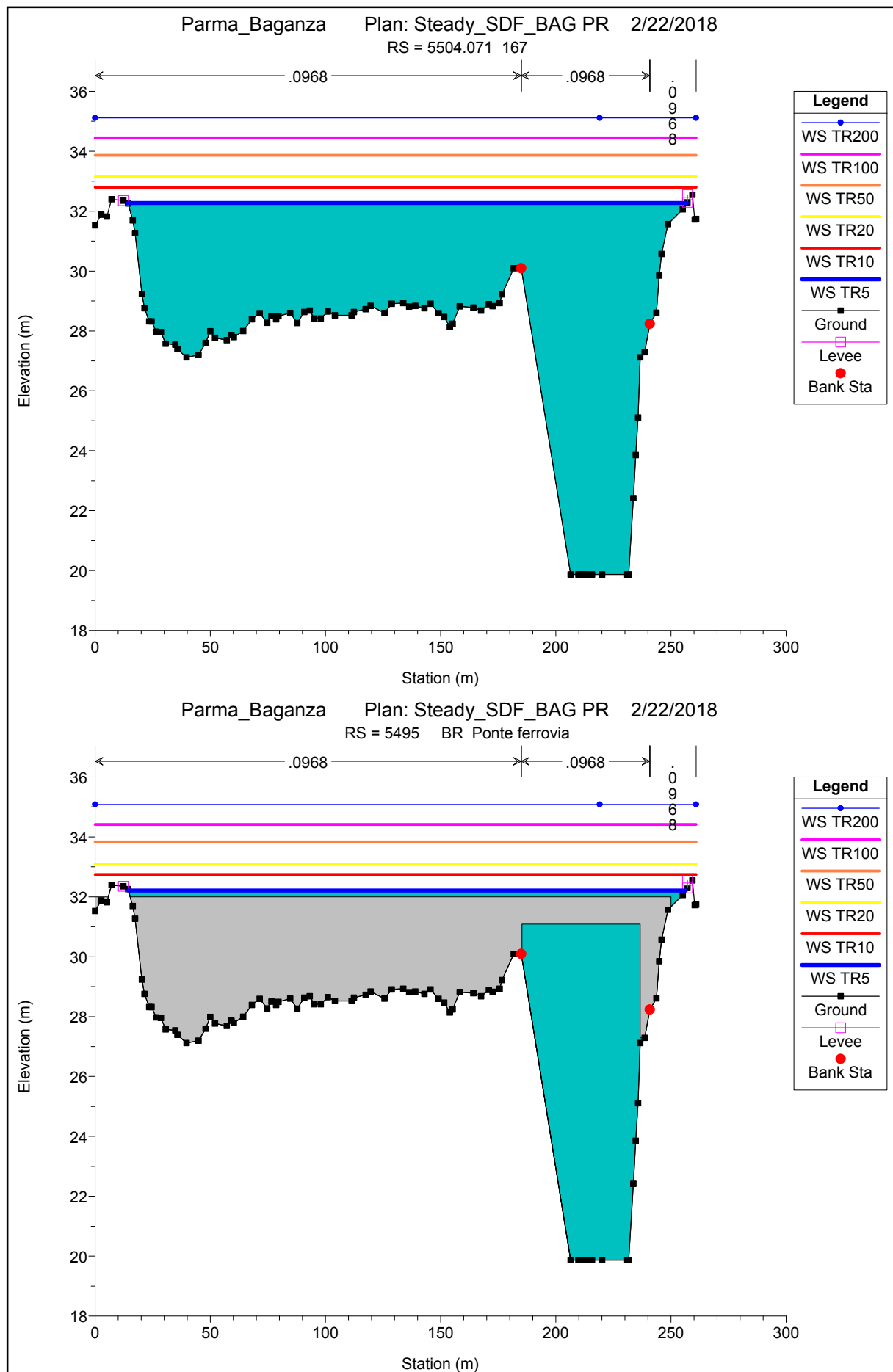


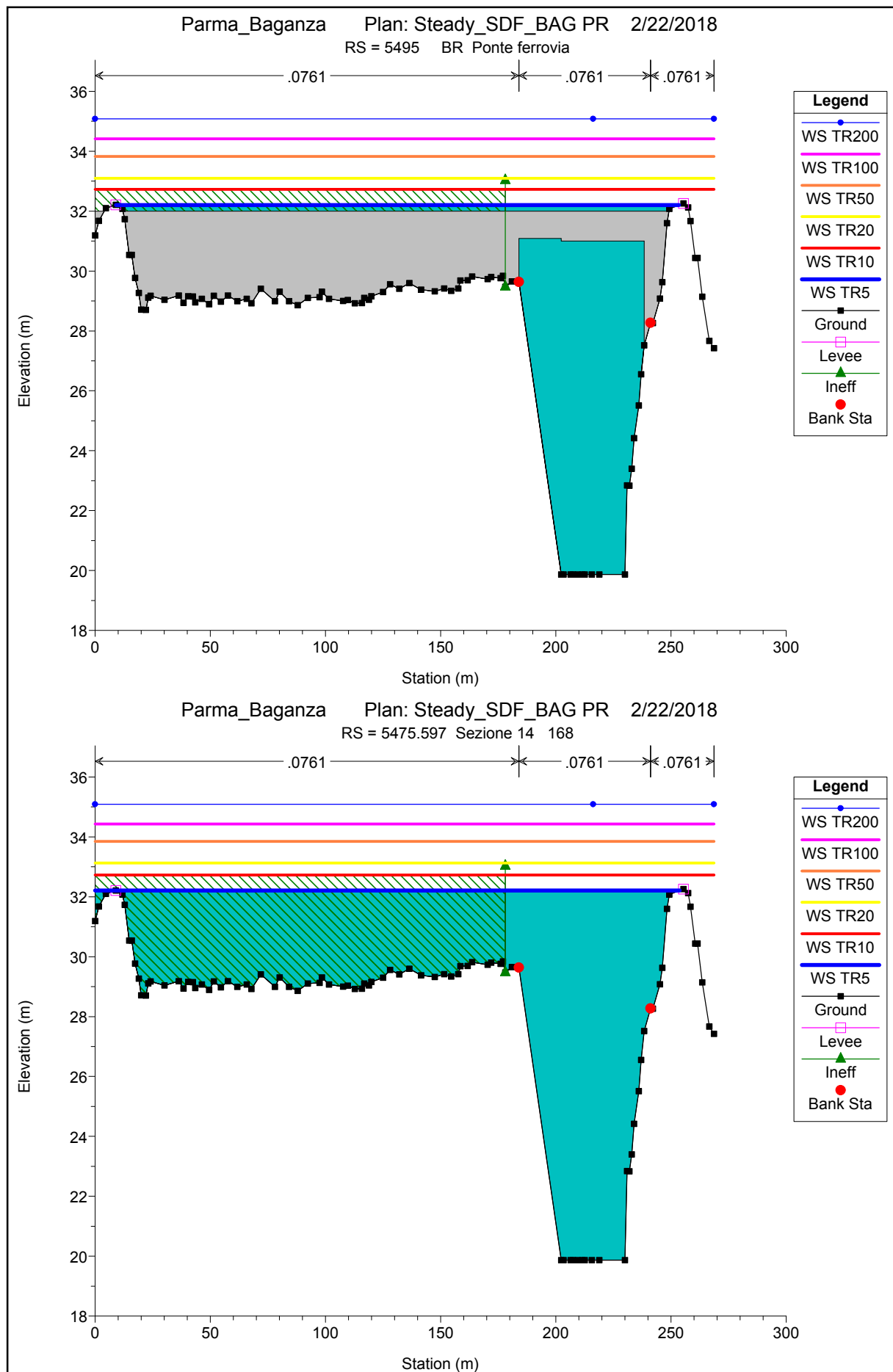


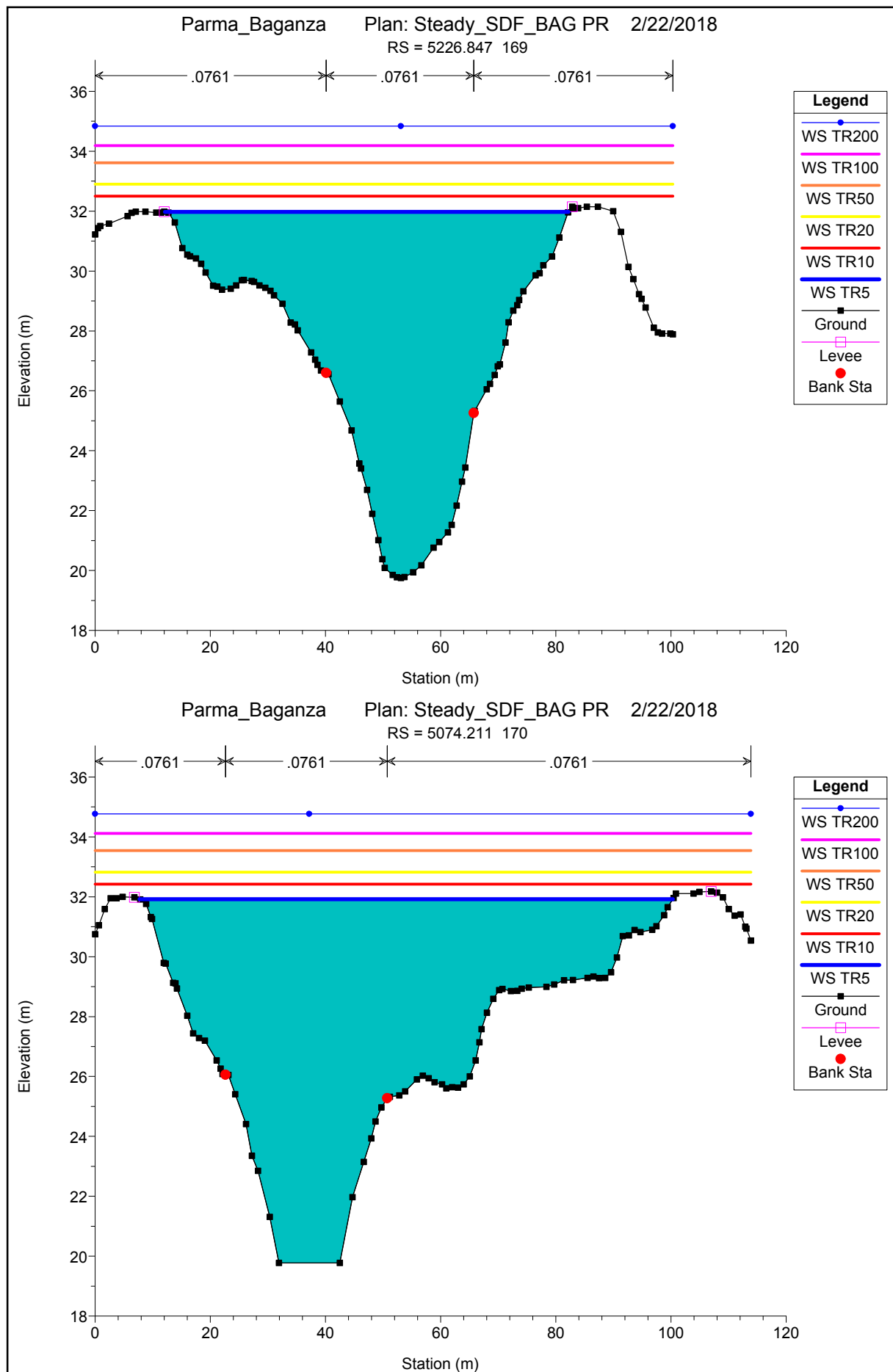




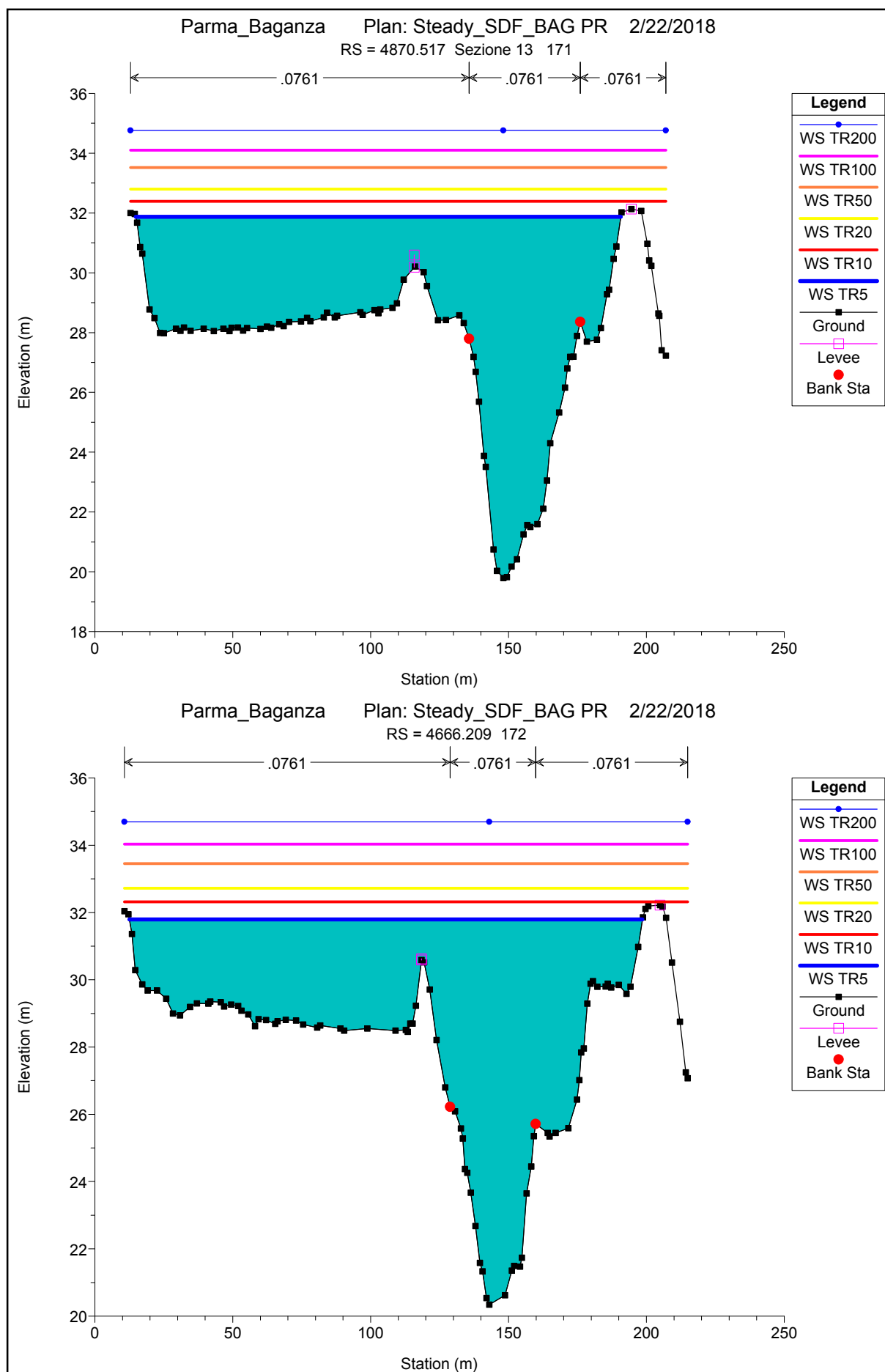


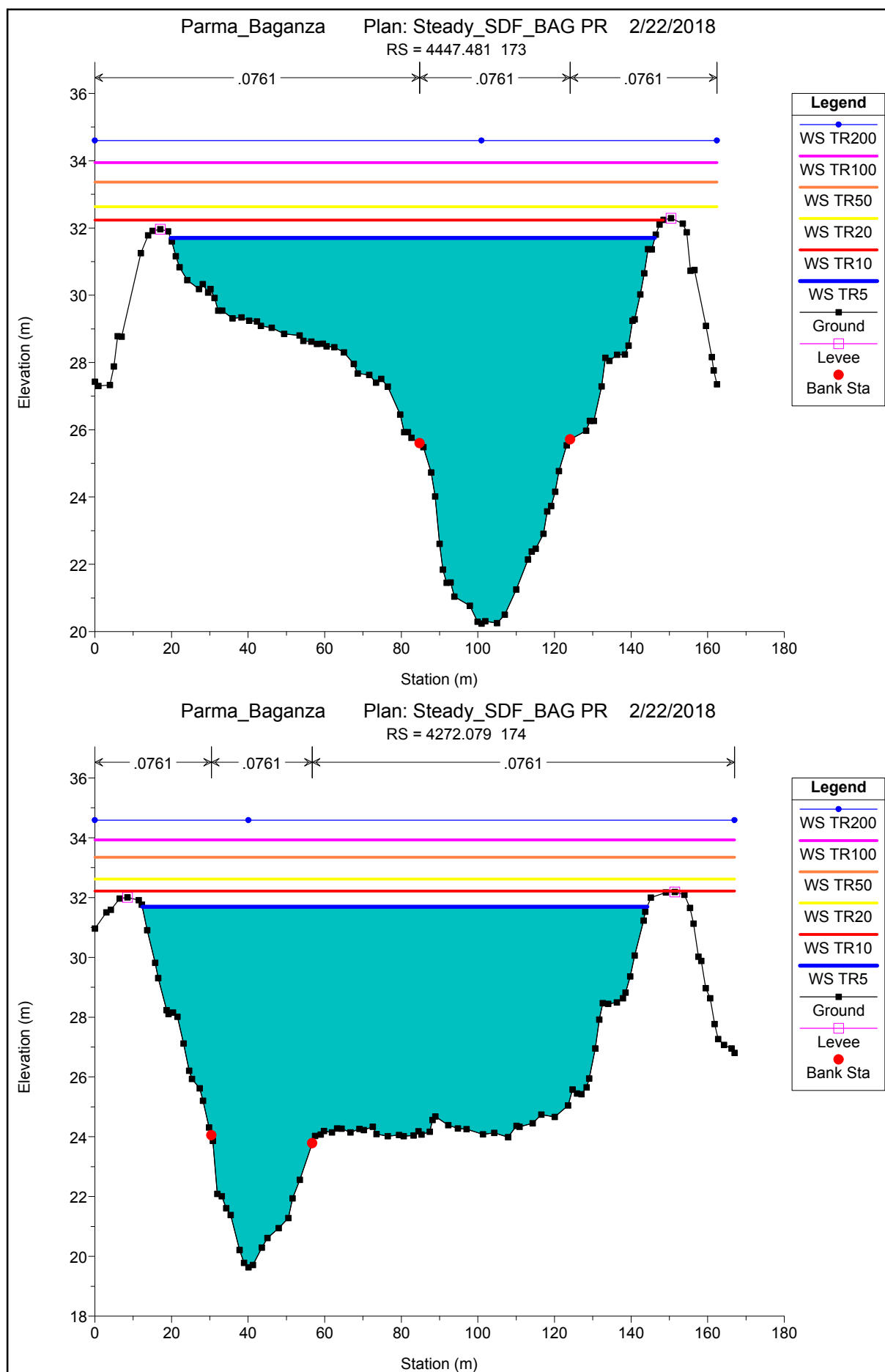


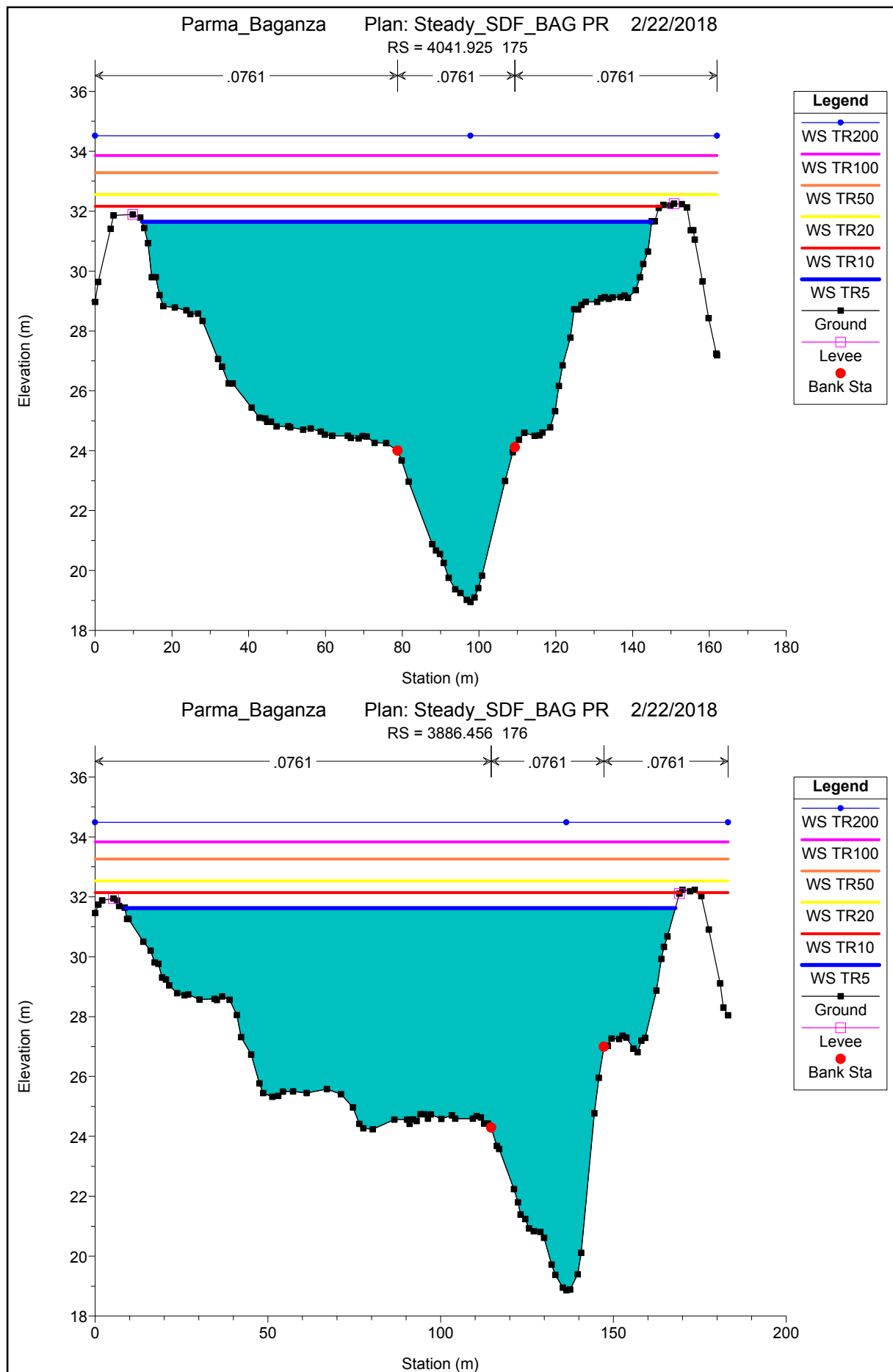


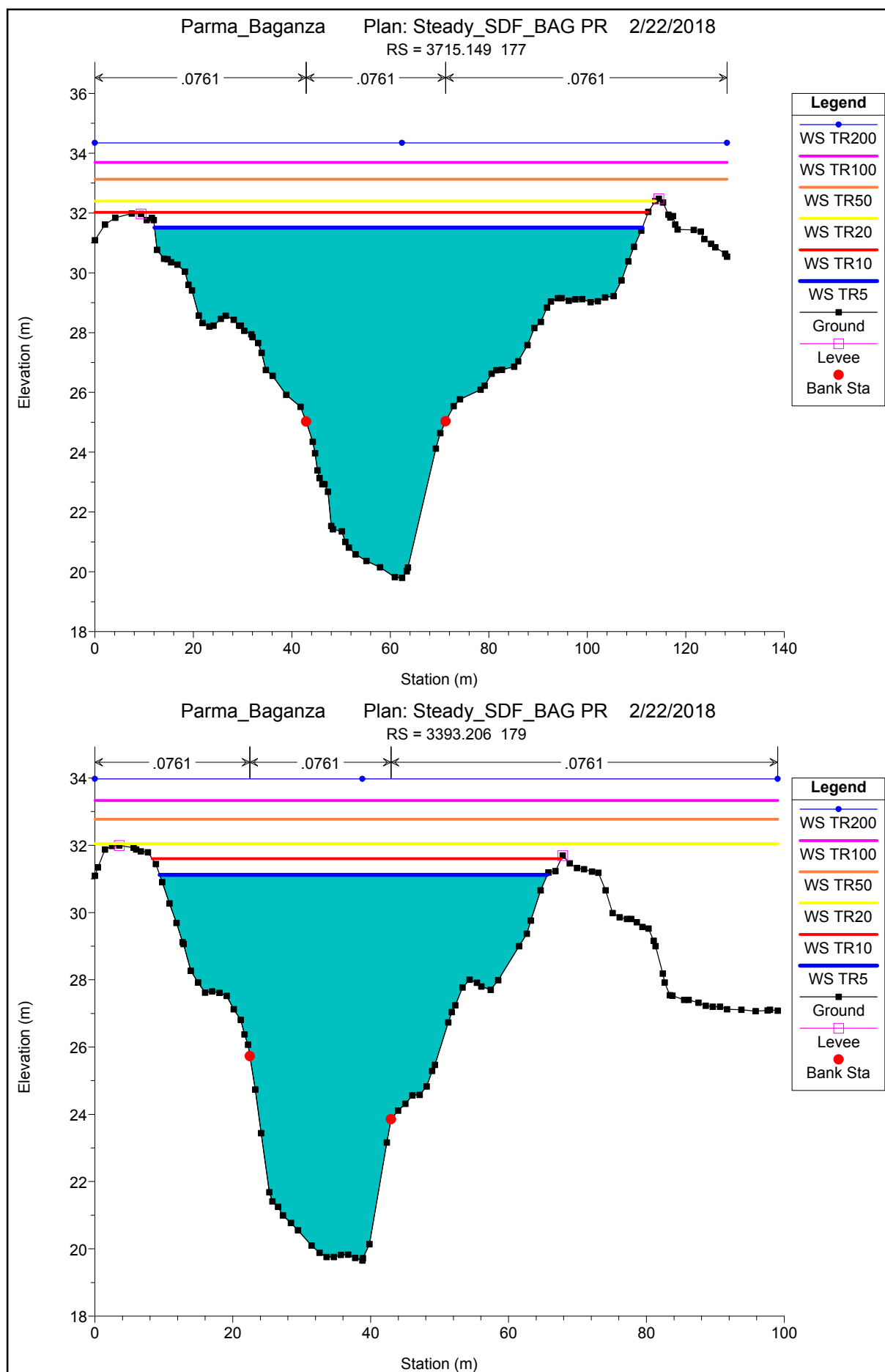


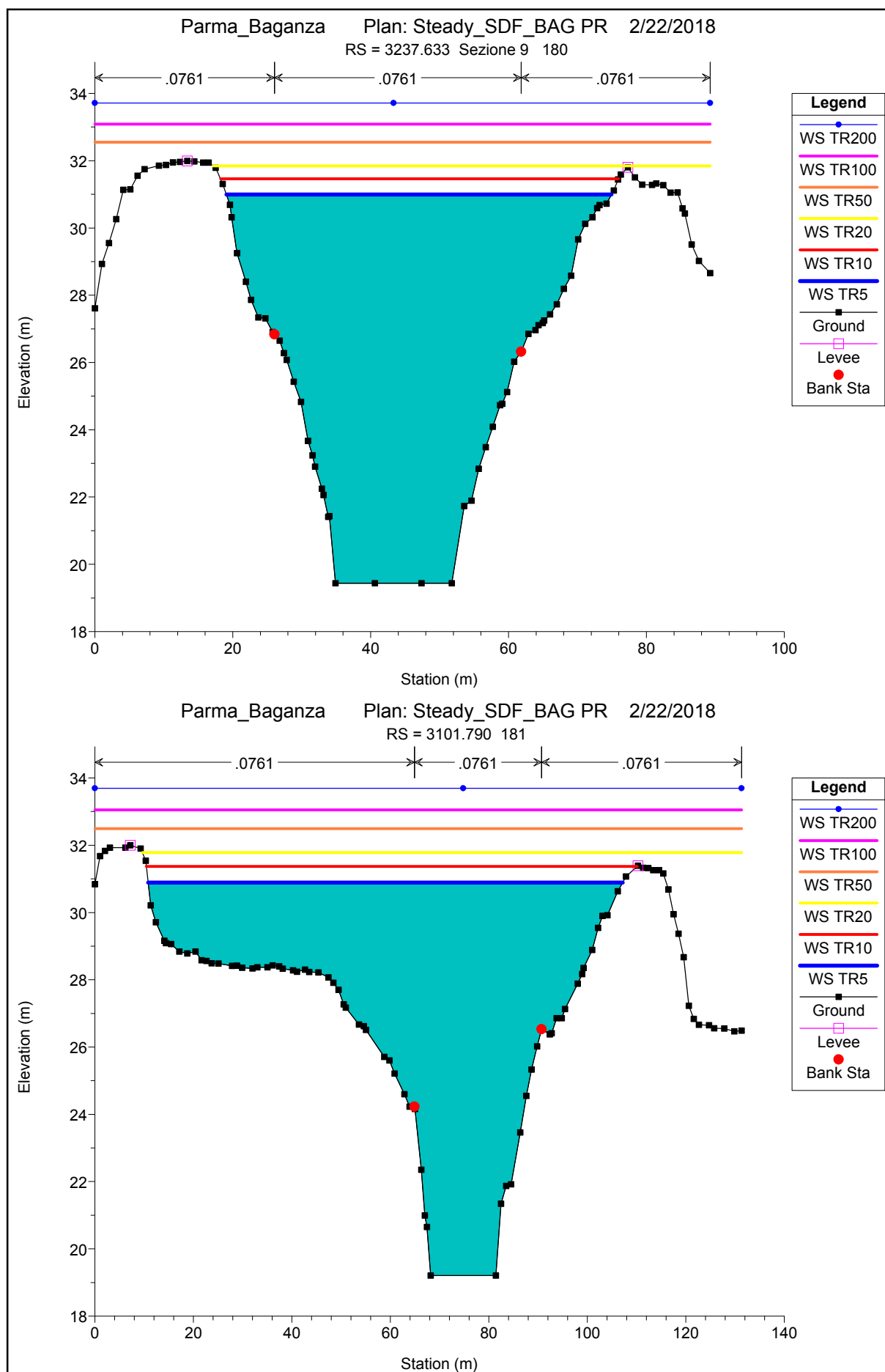


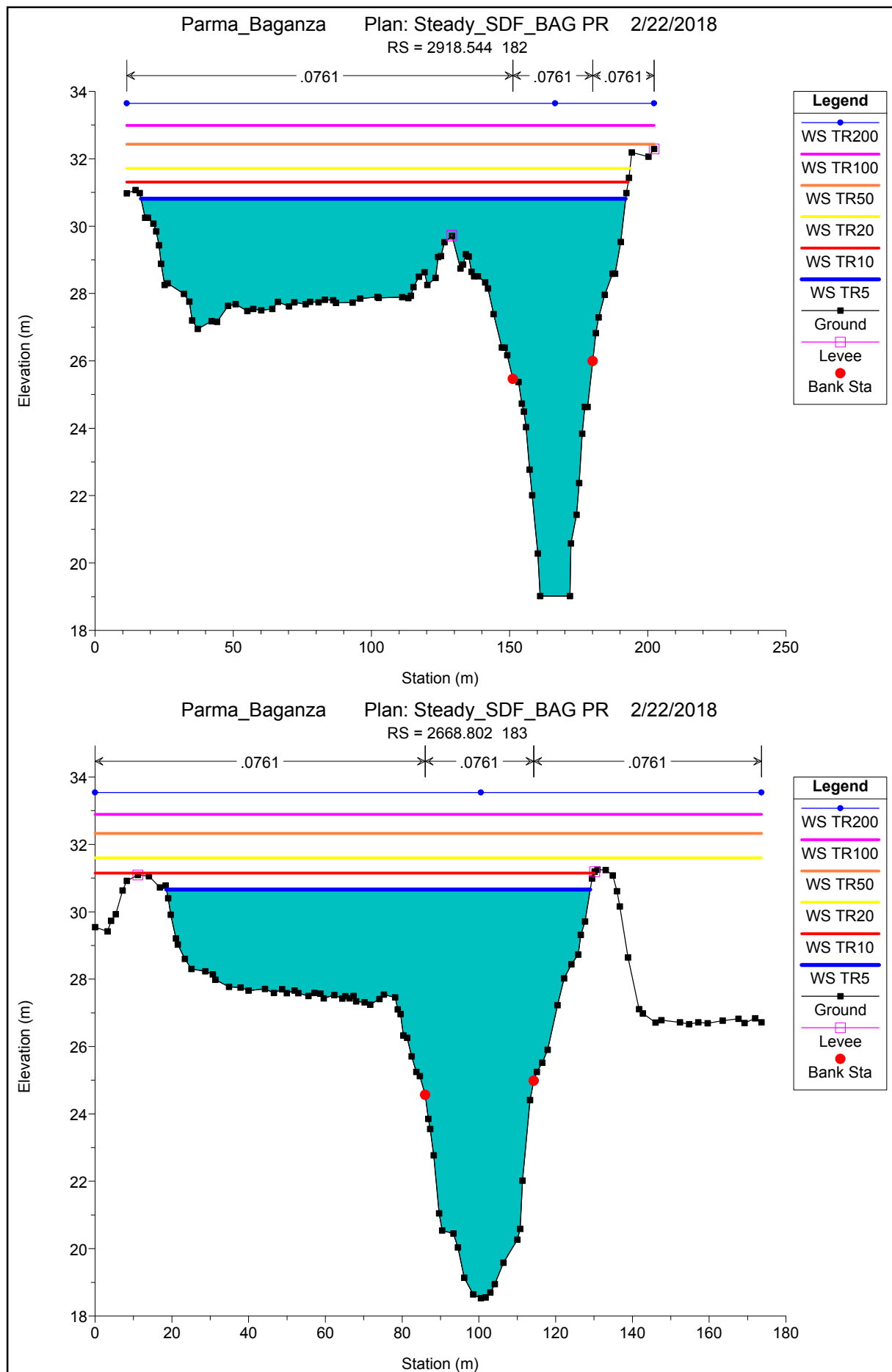


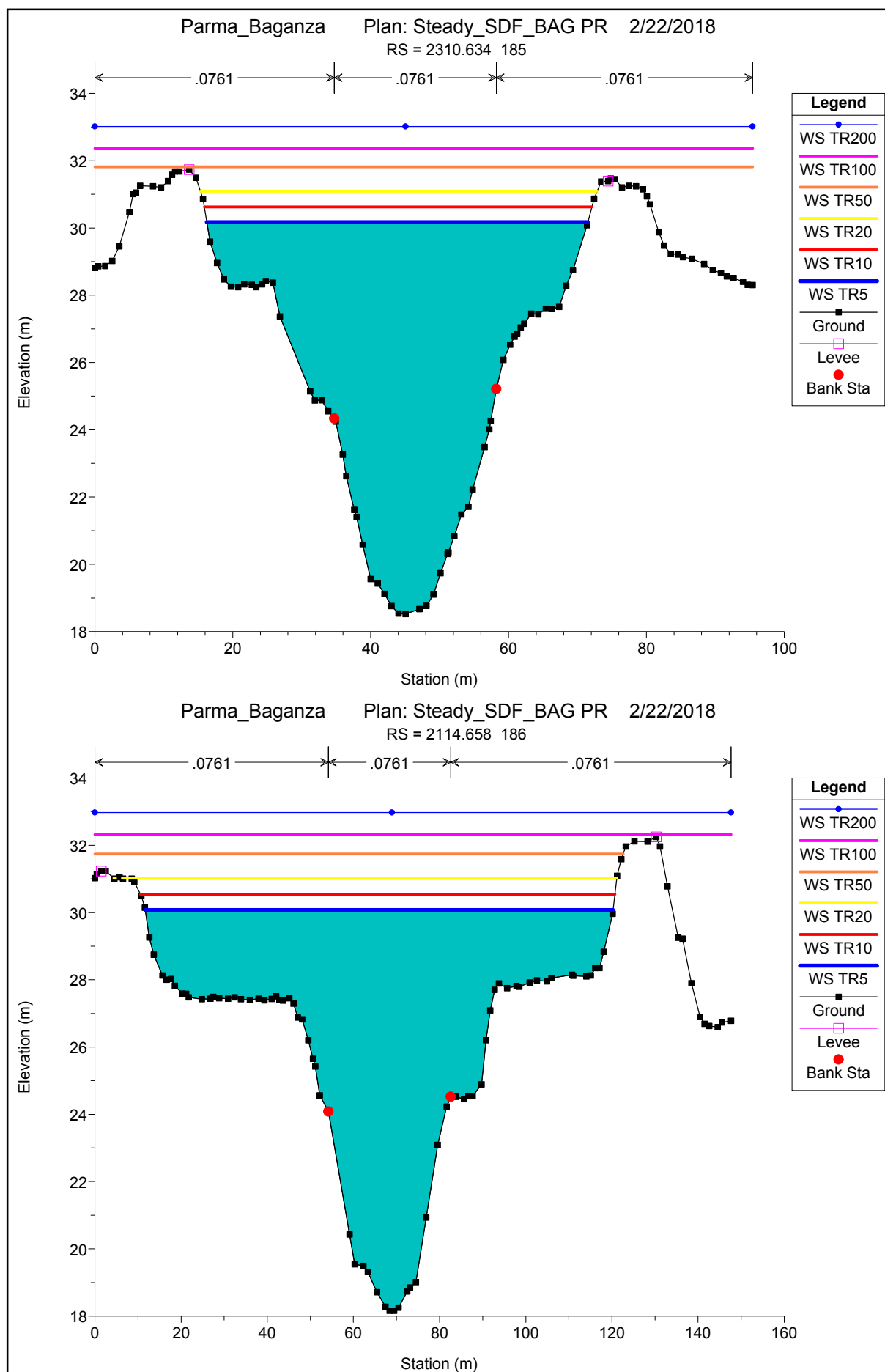


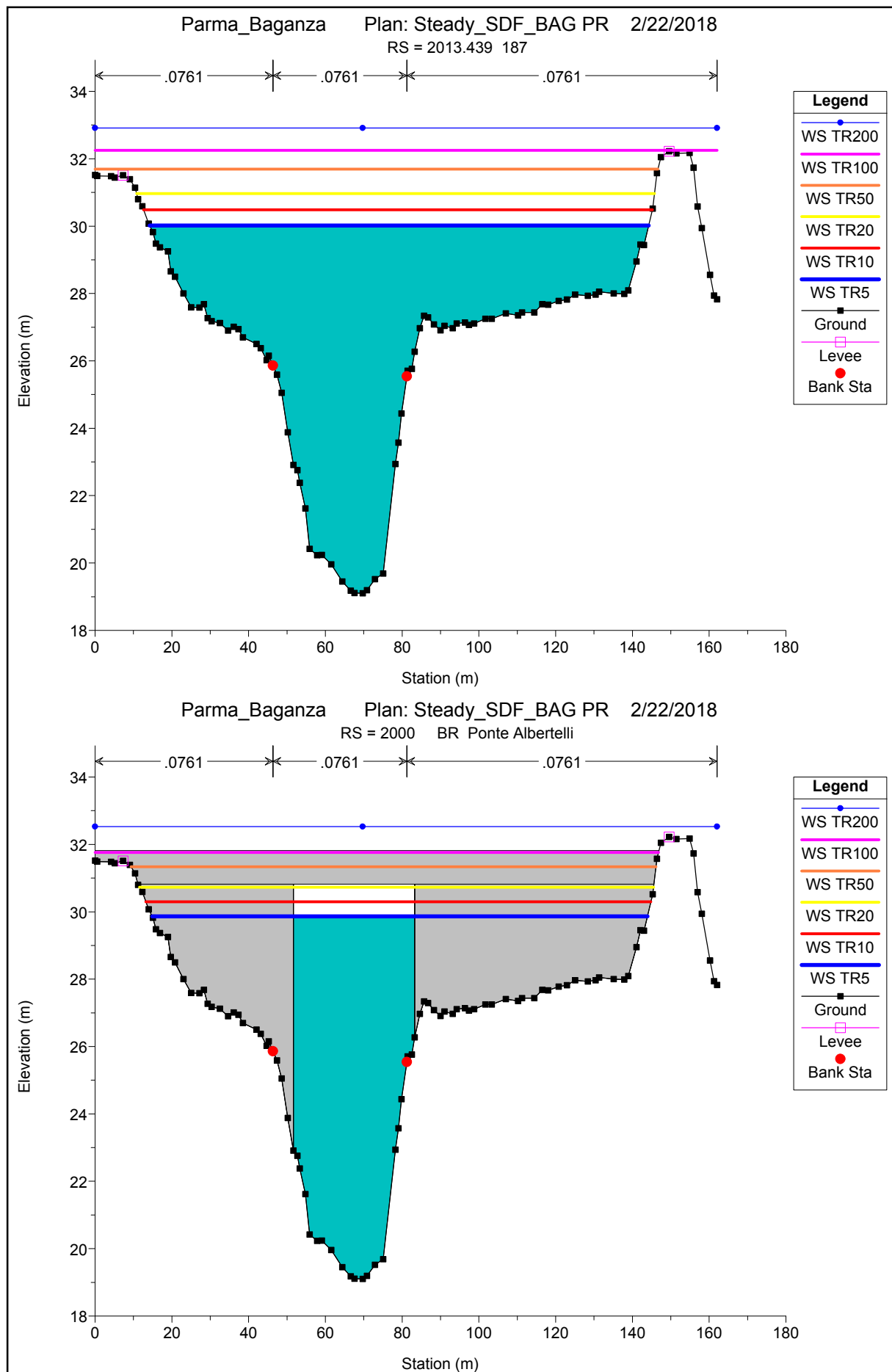




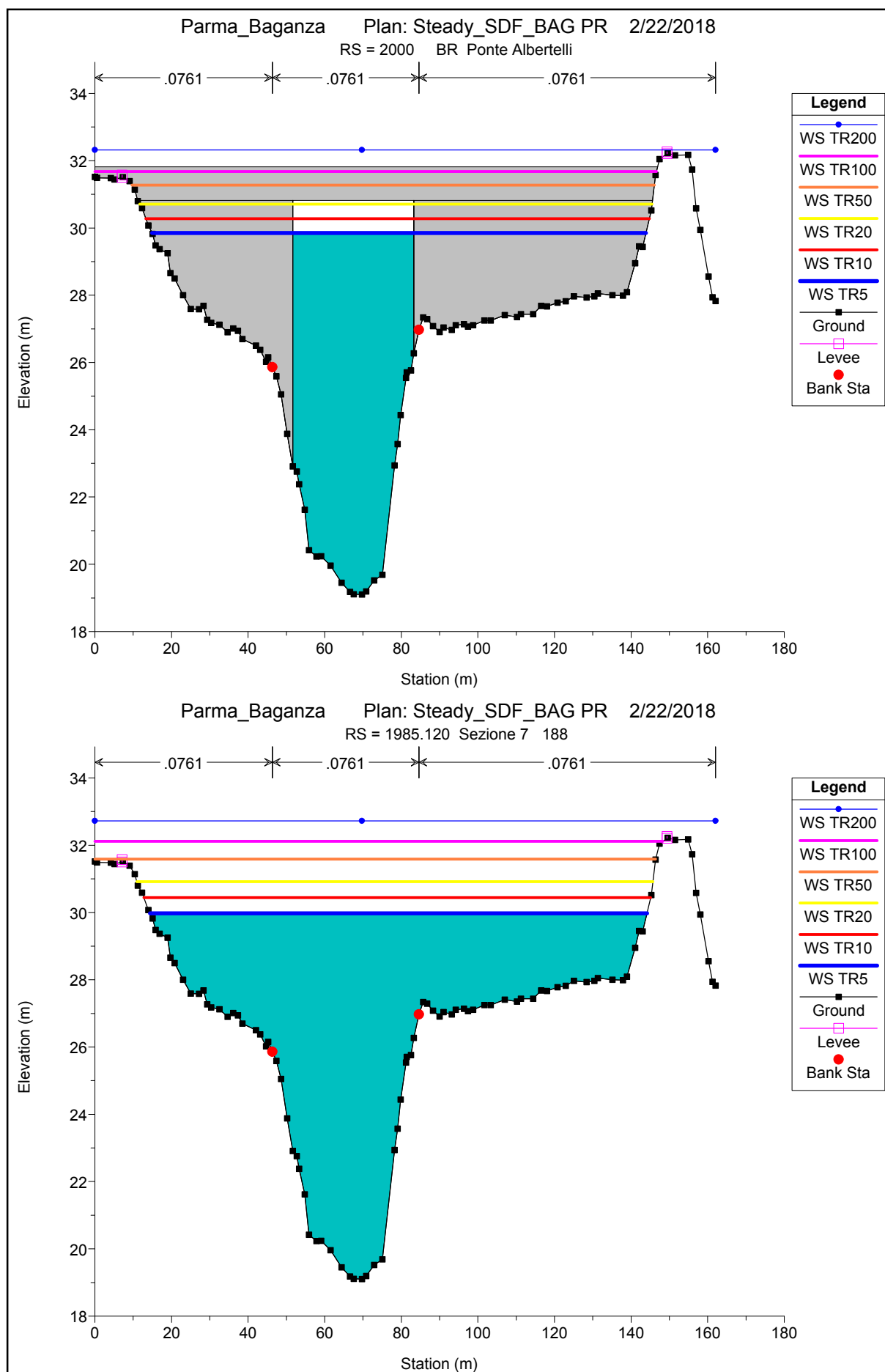


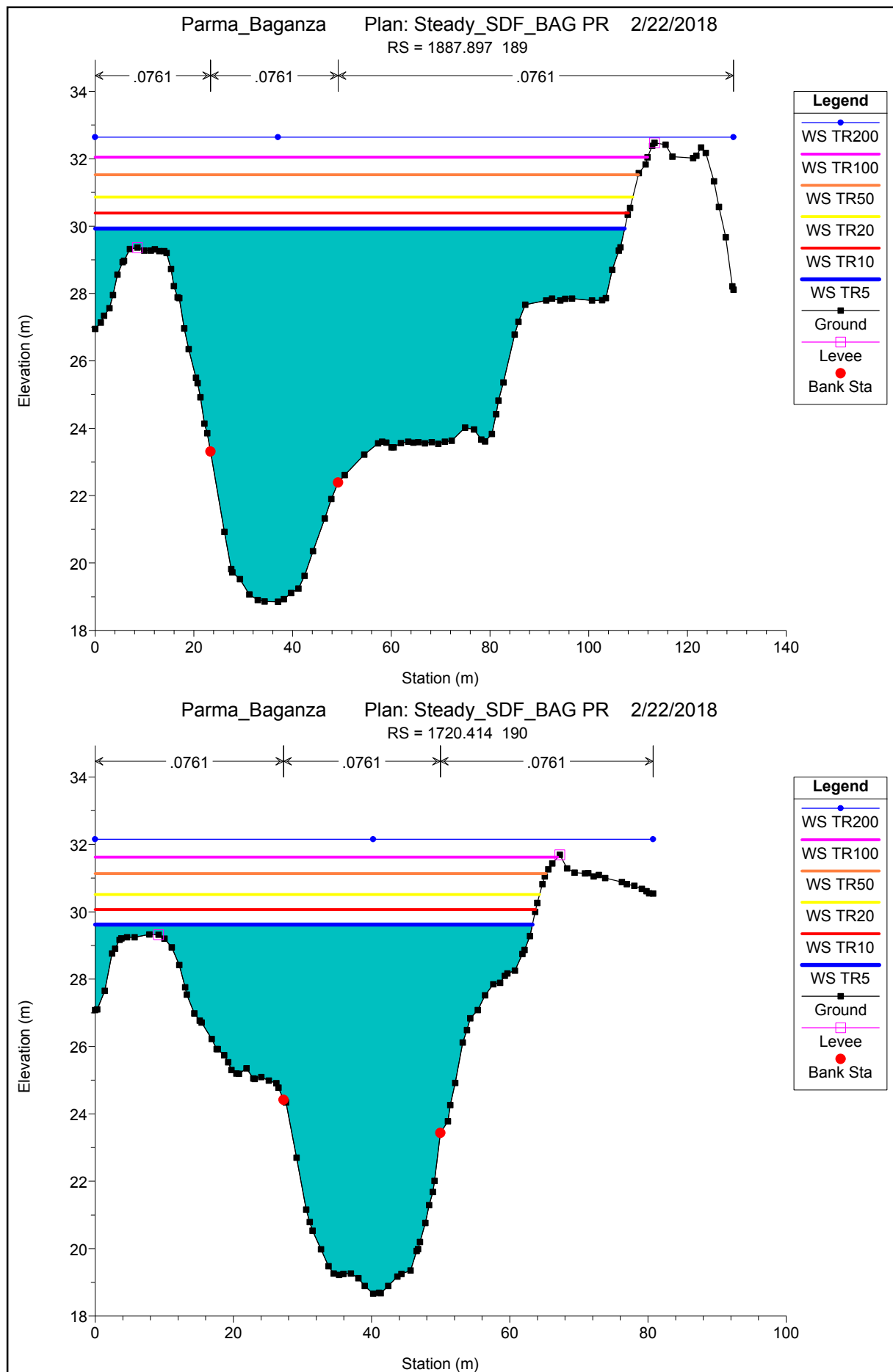


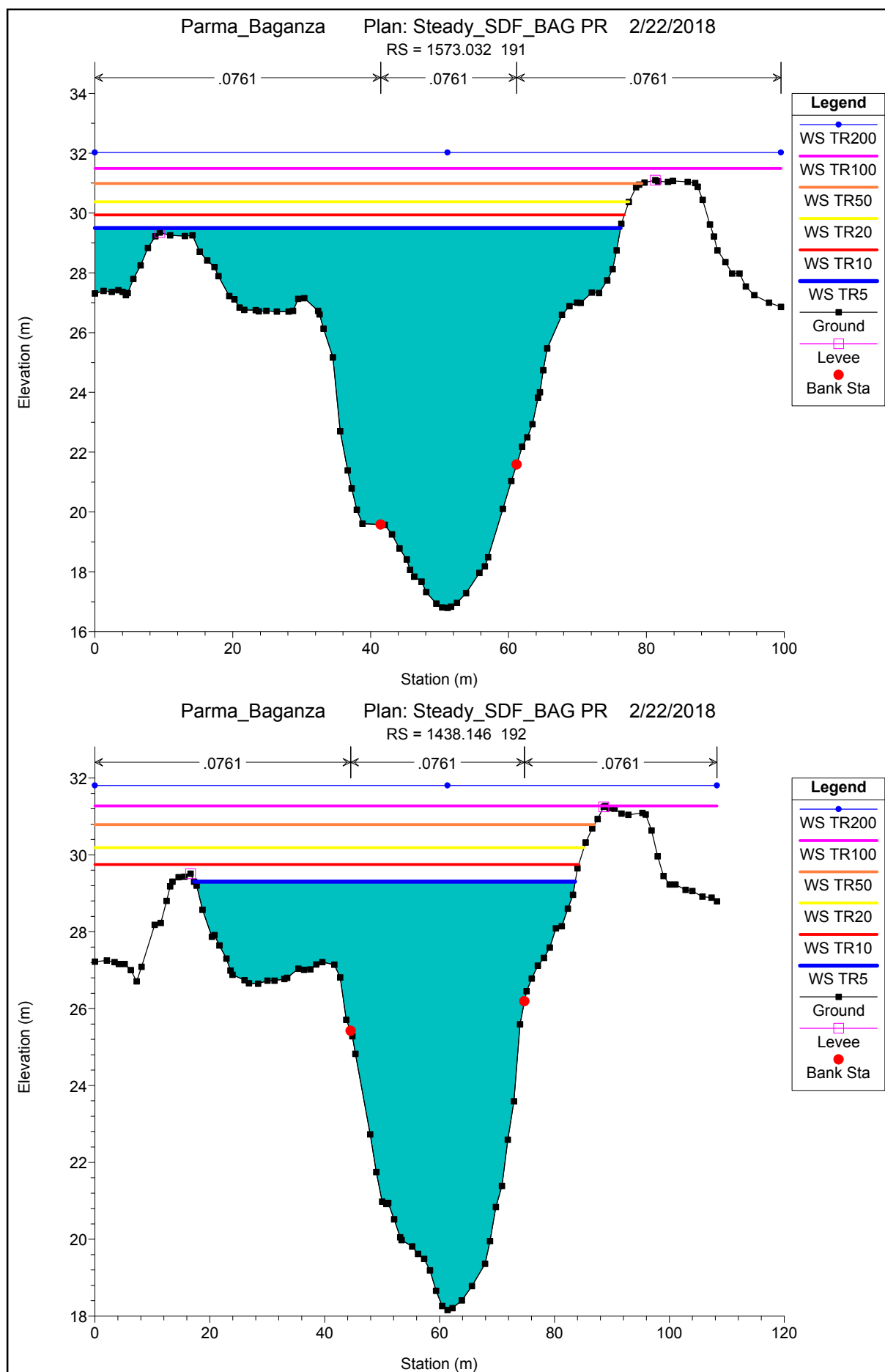


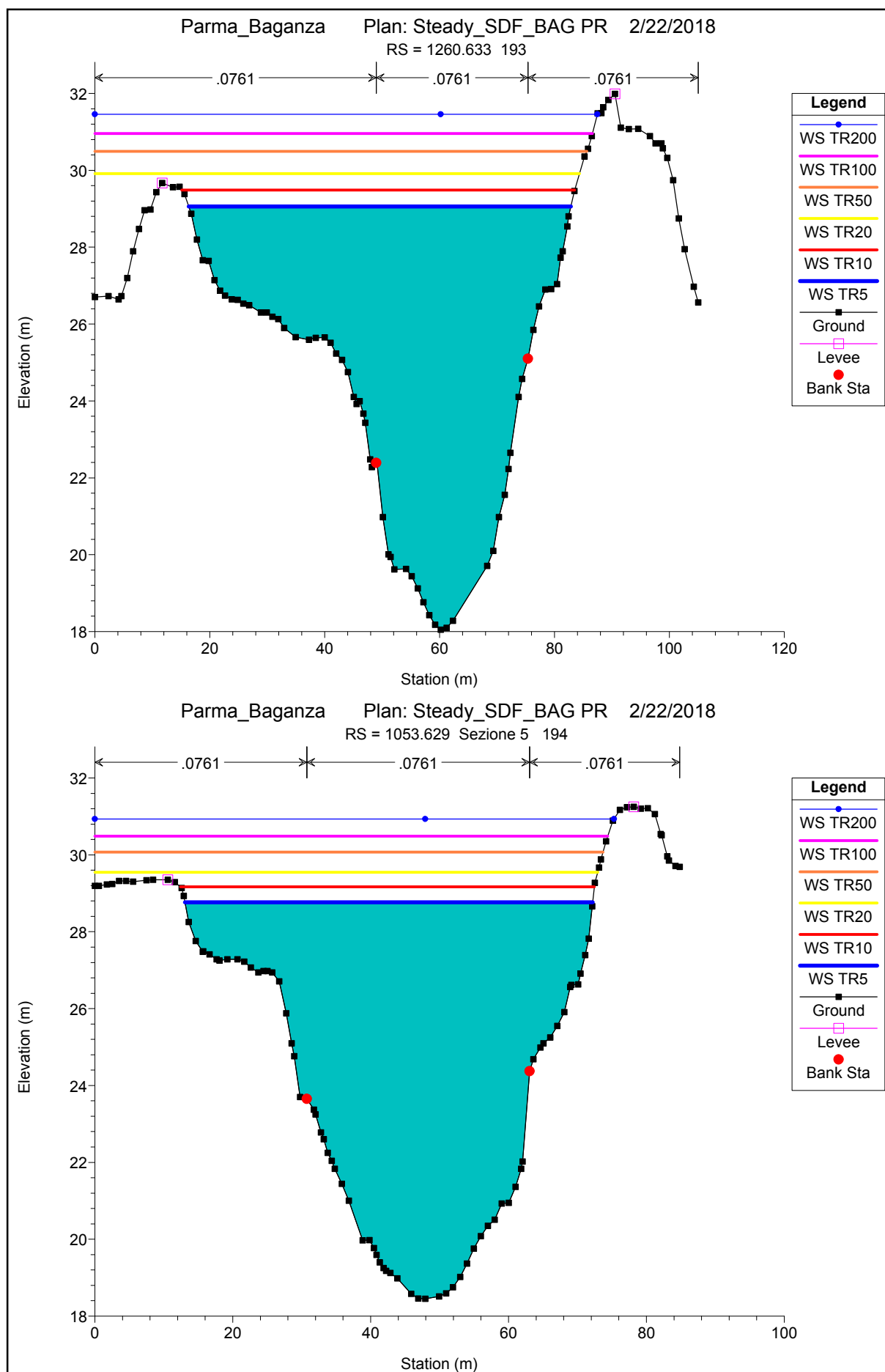


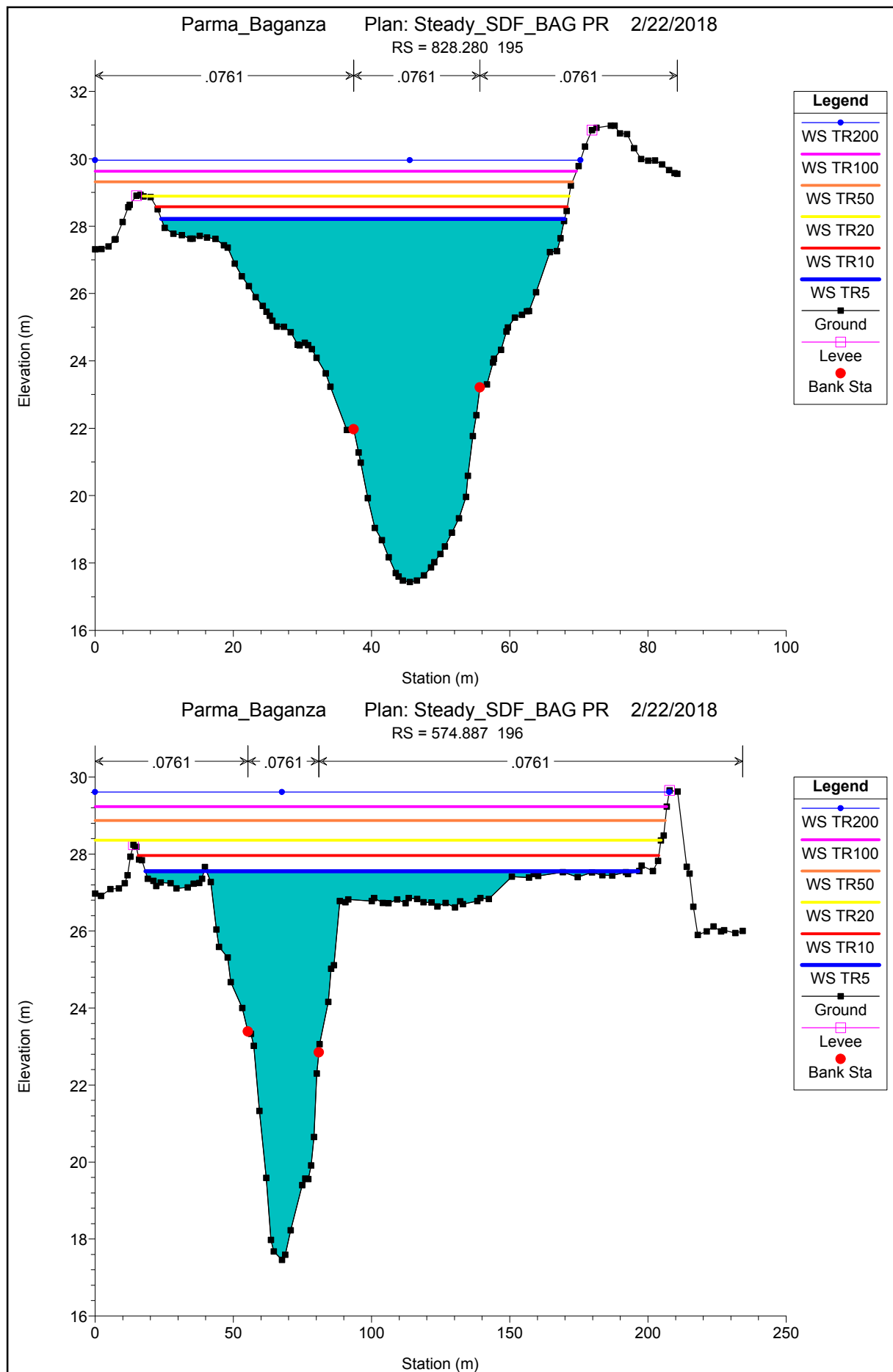


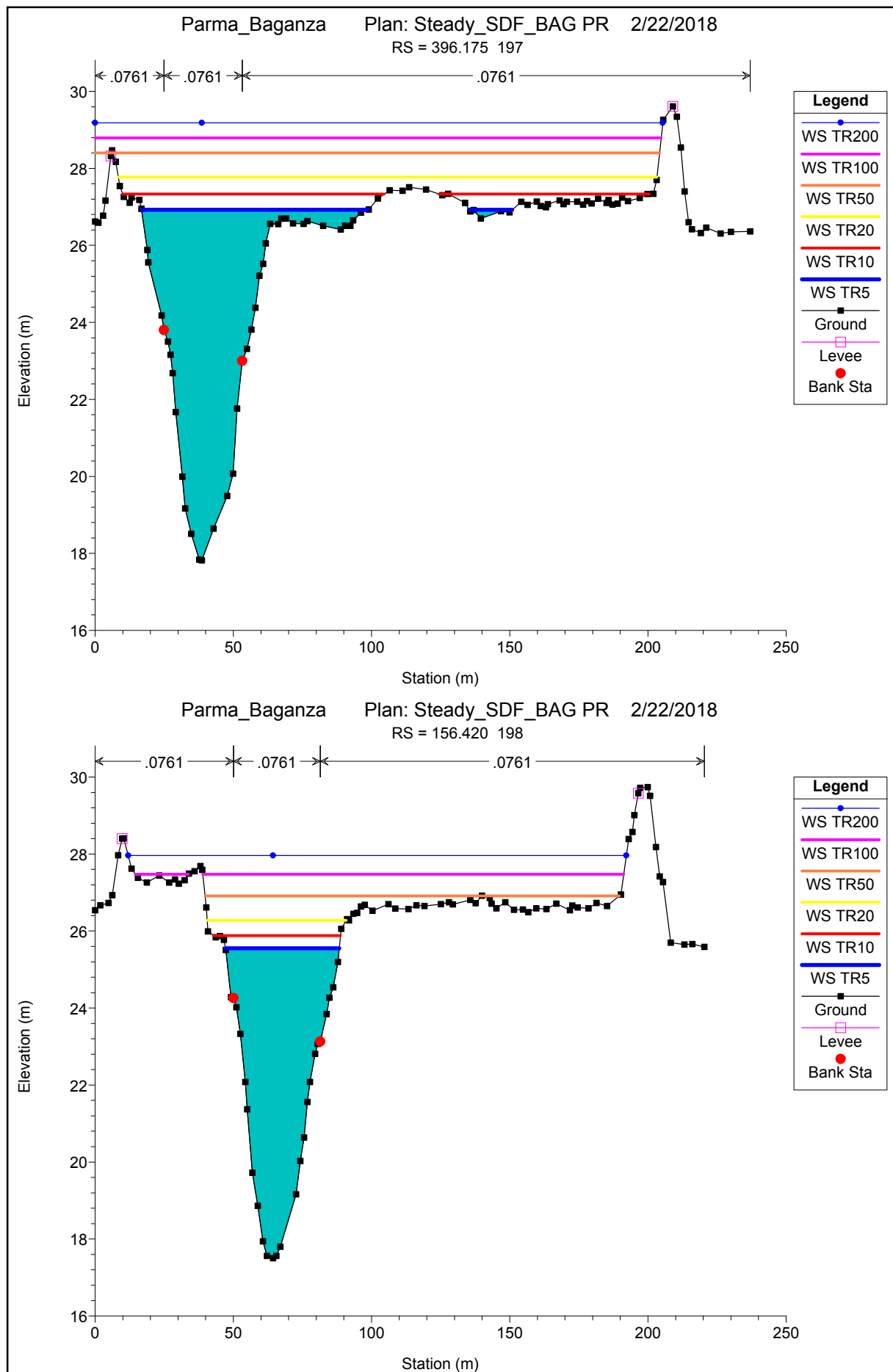






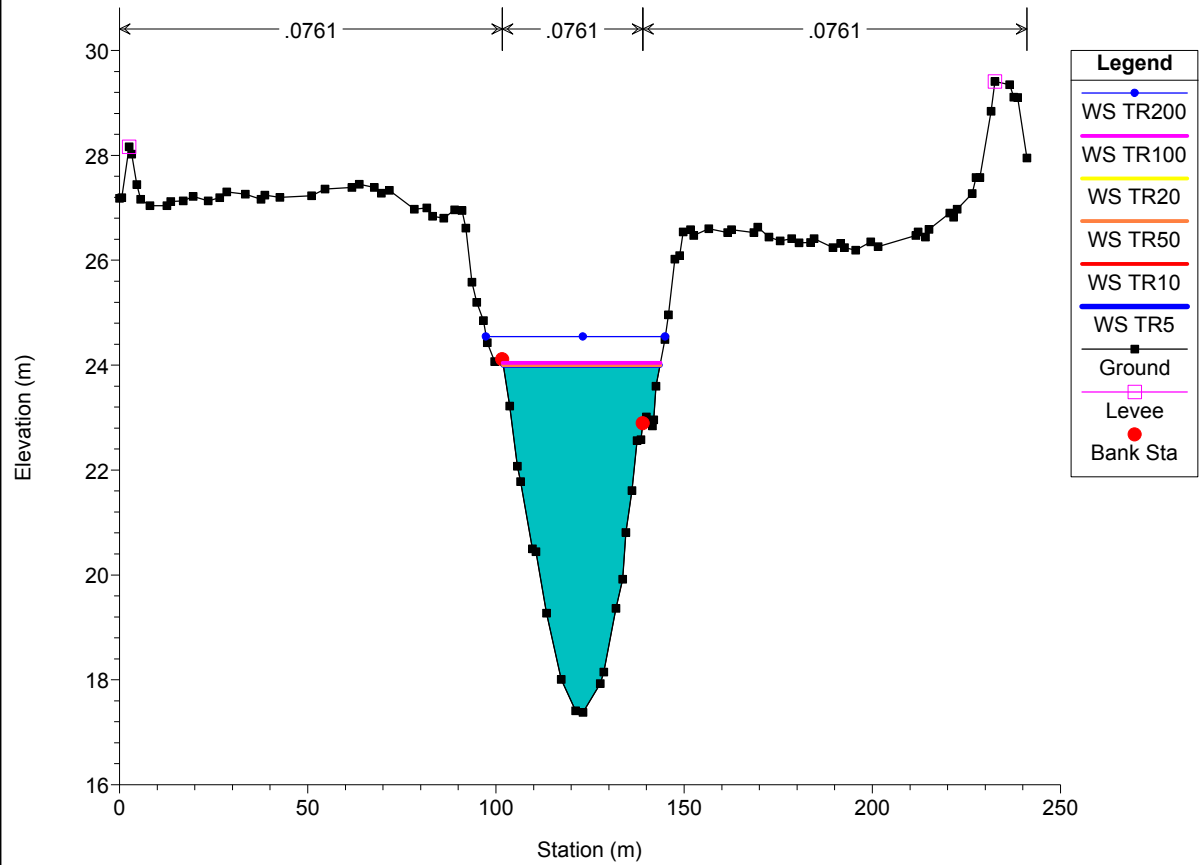






# Parma\_Baganza Plan: Steady\_SDF\_BAG PR 2/22/2018

RS = 0.500 Sezione 3 199



## APPENDICE 5

### PROFILI DI MOTO PERMANENTE – TORRENTE PARMA

#### STATO DI PROGETTO

Portate al colmo								
TR BAG	5	10	20	50	100	200	500	1000
Qmax (mc/s) BAG					430	460		
Qmax (mc/s) PRmonte					350	350		
Qmax (mc/s) PRvalle					795	810		

\* Con PR TR 200 = 460 mc/s, Qmax PR valle = 920 mc/s



HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	41049.52	TR100	795.00	56.21	59.47	59.47	60.18	0.008666	3.92	233.68	166.15	0.82
Valle	41049.52	TR200	810.00	56.21	59.49	59.49	60.21	0.008670	3.94	237.04	166.59	0.82
Valle	41049.52	TR200BAG+200PR	920.00	56.21	59.64	59.64	60.40	0.008533	4.08	262.53	168.90	0.83
Valle	40973.87	TR100	795.00	56.21	59.41	58.53	59.74	0.003115	2.64	331.75	166.17	0.51
Valle	40973.87	TR200	810.00	56.21	59.43	58.57	59.77	0.003107	2.65	336.42	166.34	0.51
Valle	40973.87	TR200BAG+200PR	920.00	56.21	59.63	58.84	59.98	0.003081	2.76	368.55	167.69	0.51
Valle	40961		Bridge									
Valle	40950.29	TR100	795.00	56.19	59.06	58.40	59.41	0.003788	2.71	317.05	170.55	0.55
Valle	40950.29	TR200	810.00	56.19	59.09	58.42	59.44	0.003759	2.72	322.06	170.94	0.55
Valle	40950.29	TR200BAG+200PR	920.00	56.19	59.28	58.59	59.66	0.003643	2.82	355.58	174.23	0.55
Valle	40899.57	TR100	795.00	54.84	58.97	58.08	59.25	0.002693	2.45	349.89	154.78	0.47
Valle	40899.57	TR200	810.00	54.84	59.00	58.11	59.28	0.002691	2.47	354.42	156.00	0.47
Valle	40899.57	TR200BAG+200PR	920.00	54.84	59.19	58.27	59.50	0.002739	2.58	384.77	161.24	0.48
Valle	40849.7	TR100	795.00	54.89	58.67	58.05	59.08	0.004291	2.94	292.30	159.22	0.59
Valle	40849.7	TR200	810.00	54.89	58.70	58.08	59.12	0.004253	2.95	297.21	159.43	0.58
Valle	40849.7	TR200BAG+200PR	920.00	54.89	58.88	58.29	59.33	0.004209	3.07	328.11	176.99	0.59
Valle	40799.96	TR100	795.00	54.74	58.43	57.86	58.87	0.004530	2.99	289.66	169.97	0.60
Valle	40799.96	TR200	810.00	54.74	58.47	57.89	58.90	0.004423	2.99	296.35	170.13	0.60
Valle	40799.96	TR200BAG+200PR	920.00	54.74	58.68	58.10	59.13	0.004163	3.06	332.36	170.97	0.59
Valle	40749	TR100	795.00	54.47	58.24	57.63	58.65	0.004054	2.91	297.61	152.25	0.57
Valle	40749	TR200	810.00	54.47	58.29	57.66	58.69	0.003940	2.90	304.56	152.84	0.57
Valle	40749	TR200BAG+200PR	920.00	54.47	58.50	57.84	58.92	0.003789	3.00	337.39	156.08	0.56
Valle	40700.02	TR100	795.00	54.57	58.15	57.29	58.48	0.002922	2.64	334.18	155.98	0.49
Valle	40700.02	TR200	810.00	54.57	58.20	57.28	58.53	0.002837	2.63	342.02	157.24	0.49
Valle	40700.02	TR200BAG+200PR	920.00	54.57	58.42	57.54	58.77	0.002779	2.73	377.01	161.77	0.49
Valle	40648.36	TR100	795.00	54.41	57.95	57.15	58.32	0.003413	2.76	311.00	152.32	0.53
Valle	40648.36	TR200	810.00	54.41	58.00	57.18	58.37	0.003352	2.77	318.50	153.30	0.53
Valle	40648.36	TR200BAG+200PR	920.00	54.41	58.23	57.36	58.61	0.003202	2.85	353.38	154.45	0.52
Valle	40591.9	TR100	795.00	54.20	57.46	57.20	58.05	0.006751	3.69	246.39	139.50	0.74
Valle	40591.9	TR200	810.00	54.20	57.47	57.22	58.10	0.007201	3.82	247.63	140.62	0.76
Valle	40591.9	TR200BAG+200PR	920.00	54.20	57.84	57.39	58.38	0.005210	3.56	301.47	145.21	0.66
Valle	40548.99	TR100	795.00	54.14	57.68	56.49	57.91	0.001911	2.25	381.04	146.97	0.41
Valle	40548.99	TR200	810.00	54.14	57.72	56.51	57.96	0.001888	2.25	387.14	147.07	0.40
Valle	40548.99	TR200BAG+200PR	920.00	54.14	58.01	56.66	58.26	0.001745	2.30	430.83	147.86	0.39
Valle	40538		Bridge									
Valle	40528.82	TR100	795.00	54.16	57.58	56.43	57.82	0.002000	2.27	375.48	146.23	0.41
Valle	40528.82	TR200	810.00	54.16	57.62	56.45	57.87	0.001973	2.27	381.73	146.46	0.41
Valle	40528.82	TR200BAG+200PR	920.00	54.16	57.92	56.60	58.18	0.001809	2.32	426.13	148.19	0.40
Valle	40477.21	TR100	795.00	53.19	57.53	55.95	57.74	0.001416	2.10	412.08	147.88	0.36
Valle	40477.21	TR200	810.00	53.19	57.57	55.98	57.78	0.001402	2.11	418.52	147.91	0.36
Valle	40477.21	TR200BAG+200PR	920.00	53.19	57.88	56.15	58.10	0.001323	2.16	463.82	148.10	0.35
Valle	40413.99	TR100	795.00	53.02	57.40	55.82	57.64	0.001552	2.31	382.47	134.32	0.38
Valle	40413.99	TR200	810.00	53.02	57.44	55.85	57.69	0.001539	2.32	388.40	134.34	0.38
Valle	40413.99	TR200BAG+200PR	920.00	53.02	57.75	56.10	58.01	0.001466	2.39	429.94	134.45	0.37
Valle	40350.05	TR100	795.00	52.39	57.24	55.67	57.54	0.001787	2.52	351.94	123.75	0.41
Valle	40350.05	TR200	810.00	52.39	57.29	55.70	57.58	0.001774	2.53	357.47	123.76	0.40
Valle	40350.05	TR200BAG+200PR	920.00	52.39	57.60	55.91	57.91	0.001695	2.60	396.06	123.87	0.40
Valle	40299.14	TR100	795.00	52.21	56.96	55.77	57.42	0.002888	3.08	274.85	91.04	0.51
Valle	40299.14	TR200	810.00	52.21	57.01	55.81	57.47	0.002877	3.09	278.71	91.36	0.51
Valle	40299.14	TR200BAG+200PR	920.00	52.21	57.30	56.01	57.80	0.002829	3.22	306.57	101.97	0.51
Valle	40250.72	TR100	795.00	52.08	56.99	55.69	57.31	0.001878	2.69	342.27	114.71	0.42
Valle	40250.72	TR200	810.00	52.08	57.04	55.69	57.36	0.001862	2.70	347.57	114.71	0.42
Valle	40250.72	TR200BAG+200PR	920.00	52.08	57.36	56.00	57.69	0.001776	2.76	384.16	114.71	0.41
Valle	40199.78	TR100	795.00	52.22	56.90	55.66	57.21	0.001910	2.70	338.15	108.41	0.42
Valle	40199.78	TR200	810.00	52.22	56.94	55.68	57.26	0.001895	2.71	343.20	108.41	0.42
Valle	40199.78	TR200BAG+200PR	920.00	52.22	57.26	55.86	57.60	0.001818	2.78	377.81	108.41	0.42
Valle	40150.4	TR100	795.00	52.07	56.70	55.40	57.11	0.002303	2.98	295.25	96.44	0.47
Valle	40150.4	TR200	810.00	52.07	56.73	55.44	57.16	0.002348	3.02	298.66	97.53	0.47
Valle	40150.4	TR200BAG+200PR	920.00	52.07	57.05	55.67	57.50	0.002268	3.12	329.66	97.72	0.47
Valle	40116.57	TR100	795.00	51.98	56.70	54.98	57.04	0.001789	2.66	317.55	88.23	0.41
Valle	40116.57	TR200	810.00	51.98	56.74	55.01	57.09	0.001792	2.68	321.27	88.30	0.41
Valle	40116.57	TR200BAG+200PR	920.00	51.98	57.05	55.21	57.43	0.001798	2.81	348.55	88.84	0.42
Valle	40105		Bridge									
Valle	40094.97	TR100	795.00	51.84	56.61	54.84	56.95	0.001763	2.67	318.21	88.19	0.41
Valle	40094.97	TR200	810.00	51.84	56.65	54.86	56.99	0.001770	2.69	321.70	88.19	0.41
Valle	40094.97	TR200BAG+200PR	920.00	51.84	56.93	55.08	57.31	0.001811	2.84	346.71	88.19	0.42
Valle	40064.68	TR100	795.00	51.68	56.54	54.95	56.89	0.001959	2.73	312.51	90.14	0.43

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	40064.68	TR200	810.00	51.68	56.58	54.97	56.94	0.001964	2.75	316.06	90.19	0.43
Valle	40064.68	TR200BAG+200PR	920.00	51.68	56.86	55.20	57.26	0.001994	2.89	341.68	90.45	0.43
Valle	40012.82	TR100	795.00	51.50	56.40	54.86	56.79	0.002091	2.85	299.31	85.02	0.44
Valle	40012.82	TR200	810.00	51.50	56.44	54.90	56.83	0.002100	2.88	302.55	85.02	0.44
Valle	40012.82	TR200BAG+200PR	920.00	51.50	56.71	55.13	57.15	0.002153	3.03	325.95	85.02	0.45
Valle	39955.61	TR100	795.00	51.50	56.28	54.83	56.67	0.002115	2.86	301.00	86.95	0.45
Valle	39955.61	TR200	810.00	51.50	56.32	54.86	56.71	0.002123	2.88	304.29	86.97	0.45
Valle	39955.61	TR200BAG+200PR	920.00	51.50	56.59	55.10	57.03	0.002169	3.03	328.14	87.16	0.46
Valle	39901.11	TR100	795.00	51.33	56.14	54.87	56.54	0.002408	2.94	295.84	92.48	0.47
Valle	39901.11	TR200	810.00	51.33	56.18	54.91	56.59	0.002411	2.96	299.36	92.50	0.47
Valle	39901.11	TR200BAG+200PR	920.00	51.33	56.46	55.12	56.90	0.002416	3.10	325.04	92.59	0.48
Valle	39850.29	TR100	795.00	51.46	55.97	54.91	56.41	0.002873	3.07	283.17	94.94	0.51
Valle	39850.29	TR200	810.00	51.46	56.01	54.94	56.45	0.002867	3.09	286.83	94.94	0.51
Valle	39850.29	TR200BAG+200PR	920.00	51.46	56.29	55.13	56.77	0.002808	3.21	313.65	94.94	0.51
Valle	39797.19	TR100	795.00	51.45	55.75	54.82	56.24	0.003389	3.25	267.58	96.88	0.55
Valle	39797.19	TR200	810.00	51.45	55.79	54.85	56.29	0.003370	3.27	271.46	96.88	0.55
Valle	39797.19	TR200BAG+200PR	920.00	51.45	56.08	55.02	56.61	0.003213	3.36	300.06	96.88	0.54
Valle	39764.09	TR100	795.00	51.28	55.74	54.32	56.15	0.002383	2.93	291.48	87.89	0.47
Valle	39764.09	TR200	810.00	51.28	55.78	54.48	56.19	0.002387	2.96	294.87	87.94	0.47
Valle	39764.09	TR200BAG+200PR	920.00	51.28	56.06	54.69	56.52	0.002393	3.10	319.88	88.25	0.48
Valle	39755	Bridge										
Valle	39746.83	TR100	795.00	51.37	55.66	54.38	56.08	0.002532	3.01	287.37	89.31	0.48
Valle	39746.83	TR200	810.00	51.37	55.69	54.41	56.12	0.002535	3.03	290.79	89.41	0.48
Valle	39746.83	TR200BAG+200PR	920.00	51.37	55.97	54.60	56.44	0.002552	3.18	315.27	89.86	0.49
Valle	39726.27	TR100	795.00	50.70	55.61	53.93	56.03	0.002166	2.96	291.37	86.56	0.45
Valle	39726.27	TR200	810.00	50.70	55.65	53.98	56.08	0.002177	2.99	294.61	86.61	0.45
Valle	39726.27	TR200BAG+200PR	920.00	50.70	55.92	54.33	56.39	0.002249	3.15	317.75	86.92	0.46
Valle	39693.8	TR100	795.00	50.72	55.36	54.41	55.95	0.003410	3.52	252.05	89.55	0.56
Valle	39693.8	TR200	810.00	50.72	55.40	54.45	55.99	0.003411	3.55	255.40	89.58	0.56
Valle	39693.8	TR200BAG+200PR	920.00	50.72	55.67	54.72	56.30	0.003405	3.70	279.46	89.76	0.56
Valle	39650.48	TR100	795.00	50.60	55.26	54.20	55.81	0.003102	3.44	260.61	90.00	0.54
Valle	39650.48	TR200	810.00	50.60	55.29	54.25	55.85	0.003105	3.46	263.98	90.00	0.54
Valle	39650.48	TR200BAG+200PR	920.00	50.60	55.56	54.53	56.16	0.003116	3.61	288.15	90.00	0.54
Valle	39599.16	TR100	795.00	50.37	55.10	54.00	55.64	0.003172	3.41	259.15	90.25	0.54
Valle	39599.16	TR200	810.00	50.37	55.13	54.02	55.69	0.003176	3.43	262.48	90.26	0.54
Valle	39599.16	TR200BAG+200PR	920.00	50.37	55.40	54.29	56.00	0.003189	3.58	286.58	90.35	0.55
Valle	39559.2	TR100	795.00	50.32	54.96	53.87	55.52	0.003304	3.41	256.04	89.29	0.55
Valle	39559.2	TR200	810.00	50.32	55.00	53.97	55.56	0.003309	3.43	259.30	89.29	0.55
Valle	39559.2	TR200BAG+200PR	920.00	50.32	55.26	54.21	55.87	0.003319	3.59	282.95	89.29	0.56
Valle	39504.2	TR100	795.00	50.35	54.75	53.66	55.33	0.003491	3.43	249.11	90.51	0.56
Valle	39504.2	TR200	810.00	50.35	54.79	53.70	55.37	0.003498	3.46	252.35	90.54	0.56
Valle	39504.2	TR200BAG+200PR	920.00	50.35	55.05	53.93	55.68	0.003503	3.61	276.19	90.72	0.57
Valle	39456.43	TR100	795.00	50.09	54.49	53.54	55.15	0.004267	3.64	229.50	85.57	0.61
Valle	39456.43	TR200	810.00	50.09	54.52	53.58	55.19	0.004284	3.67	232.33	86.12	0.61
Valle	39456.43	TR200BAG+200PR	920.00	50.09	54.76	53.91	55.50	0.004354	3.87	253.84	92.09	0.63
Valle	39400.91	TR100	795.00	50.15	54.15	53.60	54.89	0.004939	3.94	220.11	81.50	0.66
Valle	39400.91	TR200	810.00	50.15	54.18	53.63	54.93	0.004961	3.97	222.62	81.59	0.66
Valle	39400.91	TR200BAG+200PR	920.00	50.15	54.42	53.86	55.24	0.005008	4.16	242.18	82.26	0.67
Valle	39352.67	TR100	795.00	50.01	54.29	53.20	54.72	0.002638	3.05	288.28	94.33	0.49
Valle	39352.67	TR200	810.00	50.01	54.33	53.23	54.76	0.002646	3.07	291.59	94.42	0.49
Valle	39352.67	TR200BAG+200PR	920.00	50.01	54.59	53.43	55.07	0.002658	3.22	316.77	95.07	0.50
Valle	39335	Bridge										
Valle	39319.83	TR100	795.00	49.92	54.18	52.94	54.53	0.002181	2.80	315.37	98.40	0.45
Valle	39319.83	TR200	810.00	49.92	54.22	52.96	54.57	0.002191	2.82	318.73	98.46	0.45
Valle	39319.83	TR200BAG+200PR	920.00	49.92	54.48	53.15	54.87	0.002217	2.96	344.77	98.85	0.46
Valle	39286.41	TR100	795.00	49.57	53.93	52.95	54.45	0.003210	3.29	264.57	91.87	0.54
Valle	39286.41	TR200	810.00	49.57	53.97	52.98	54.49	0.003229	3.32	267.44	91.89	0.54
Valle	39286.41	TR200BAG+200PR	920.00	49.57	54.22	53.21	54.78	0.003259	3.48	290.56	92.03	0.55
Valle	39243.29	TR100	795.00	49.53	53.79	52.76	54.31	0.003215	3.30	259.60	84.32	0.54
Valle	39243.29	TR200	810.00	49.53	53.82	52.79	54.35	0.003245	3.33	262.02	84.40	0.54
Valle	39243.29	TR200BAG+200PR	920.00	49.53	54.05	53.01	54.64	0.003356	3.52	281.85	85.09	0.56
Valle	39206.79	TR100	795.00	49.36	53.65	52.66	54.19	0.003435	3.36	253.98	84.42	0.56
Valle	39206.79	TR200	810.00	49.36	53.67	52.68	54.22	0.003473	3.39	256.21	84.52	0.56
Valle	39206.79	TR200BAG+200PR	920.00	49.36	53.90	52.87	54.51	0.003612	3.59	275.31	85.79	0.58
Valle	39155.52	TR100	795.00	49.40	53.76	52.11	54.06	0.001809	2.50	347.93	129.19	0.41
Valle	39155.52	TR200	810.00	49.40	53.79	52.13	54.10	0.001818	2.52	352.04	129.19	0.41
Valle	39155.52	TR200BAG+200PR	920.00	49.40	54.06	52.37	54.39	0.001812	2.63	386.28	129.19	0.41

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	39132		Bridge									
Valle	39109.88	TR100	795.00	48.53	53.74	51.02	53.92	0.000802	1.92	442.37	119.98	0.28
Valle	39109.88	TR200	810.00	48.53	53.77	51.04	53.95	0.000813	1.94	446.00	120.33	0.28
Valle	39109.88	TR200BAG+200PR	920.00	48.53	54.02	51.25	54.23	0.000870	2.08	476.98	123.92	0.29
Valle	39046.46	TR100	795.00	47.02	53.29	51.79	53.83	0.002965	3.38	268.81	116.73	0.52
Valle	39046.46	TR200	810.00	47.02	53.31	51.84	53.86	0.003010	3.42	271.39	116.81	0.53
Valle	39046.46	TR200BAG+200PR	920.00	47.02	53.54	52.32	54.14	0.003078	3.58	298.74	117.70	0.54
Valle	39001.37	TR100	795.00	47.23	53.14	51.71	53.69	0.003239	3.43	269.25	125.56	0.54
Valle	39001.37	TR200	810.00	47.23	53.16	51.75	53.72	0.003299	3.47	271.58	125.91	0.54
Valle	39001.37	TR200BAG+200PR	920.00	47.23	53.40	52.26	53.99	0.003371	3.59	302.96	132.26	0.55
Valle	38950.51	TR100	795.00	47.15	52.70	51.72	53.49	0.005154	4.02	225.06	137.37	0.67
Valle	38950.51	TR200	810.00	47.15	52.65	51.77	53.51	0.005632	4.17	219.17	133.27	0.70
Valle	38950.51	TR200BAG+200PR	920.00	47.15	52.67	52.67	53.75	0.007105	4.70	221.71	134.36	0.78
Valle	38016.02	TR100	795.00	46.85	52.20	52.20	53.30	0.009385	4.69	181.58	117.39	0.87
Valle	38016.02	TR200	810.00	46.85	52.47	52.47	53.33	0.007054	4.23	219.25	152.77	0.76
Valle	38016.02	TR200BAG+200PR	920.00	46.85	52.68	52.68	53.55	0.006743	4.32	252.04	154.15	0.75
Valle	37851.49	TR100	795.00	46.61	52.25	51.45	52.49	0.001852	2.56	410.77	180.17	0.40
Valle	37851.49	TR200	810.00	46.61	52.28	51.47	52.52	0.001854	2.57	415.89	180.89	0.40
Valle	37851.49	TR200BAG+200PR	920.00	46.61	52.48	51.59	52.73	0.001864	2.66	452.55	190.62	0.41
Valle	37691.15	TR100	795.00	46.38	51.98	51.01	52.20	0.001773	2.41	409.66	173.53	0.39
Valle	37691.15	TR200	810.00	46.38	52.01	51.03	52.23	0.001780	2.42	414.30	173.80	0.39
Valle	37691.15	TR200BAG+200PR	920.00	46.38	52.20	51.16	52.44	0.001830	2.54	447.19	175.68	0.40
Valle	37446.51	TR100	795.00	45.72	51.31	50.61	51.66	0.002763	2.89	333.84	154.17	0.49
Valle	37446.51	TR200	810.00	45.72	51.33	50.63	51.69	0.002795	2.92	336.88	154.22	0.50
Valle	37446.51	TR200BAG+200PR	920.00	45.72	51.46	50.79	51.87	0.003053	3.13	357.02	154.53	0.52
Valle	37294.49	TR100	795.00	45.66	51.13	50.37	51.32	0.001901	2.14	469.01	294.28	0.40
Valle	37294.49	TR200	810.00	45.66	51.15	50.39	51.34	0.001900	2.15	475.80	294.77	0.40
Valle	37294.49	TR200BAG+200PR	920.00	45.66	51.30	50.53	51.50	0.001911	2.23	521.15	296.02	0.40
Valle	37070.25	TR100	795.00	45.20	50.65	50.08	50.82	0.002588	2.16	456.73	288.35	0.44
Valle	37070.25	TR200	810.00	45.20	50.68	50.09	50.85	0.002556	2.16	464.39	288.80	0.44
Valle	37070.25	TR200BAG+200PR	920.00	45.20	50.85	50.18	51.03	0.002400	2.19	513.92	289.27	0.43
Valle	36864.26	TR100	795.00	45.13	50.33	49.65	50.44	0.001289	1.90	616.33	389.42	0.33
Valle	36864.26	TR200	810.00	45.13	50.36	49.66	50.47	0.001282	1.90	627.86	390.89	0.33
Valle	36864.26	TR200BAG+200PR	920.00	45.13	50.58	49.75	50.69	0.001131	1.86	713.06	393.27	0.31
Valle	36819.22	TR100	795.00	44.71	50.30	49.60	50.39	0.001105	1.80	667.77	412.32	0.30
Valle	36819.22	TR200	810.00	44.71	50.33	49.81	50.42	0.001083	1.79	680.70	412.40	0.30
Valle	36819.22	TR200BAG+200PR	920.00	44.71	50.55	49.88	50.64	0.000948	1.74	772.73	412.95	0.28
Valle	36683.44	TR100	795.00	44.90	50.22	49.16	50.28	0.000645	1.49	777.04	384.49	0.24
Valle	36683.44	TR200	810.00	44.90	50.25	49.17	50.31	0.000637	1.49	789.43	384.58	0.24
Valle	36683.44	TR200BAG+200PR	920.00	44.90	50.48	49.25	50.54	0.000589	1.48	877.30	385.22	0.23
Valle	36449.28	TR100	795.00	43.94	48.95	48.95	49.93	0.008090	4.61	198.26	266.55	0.82
Valle	36449.28	TR200	810.00	43.94	48.98	48.98	49.96	0.008086	4.63	201.22	269.84	0.82
Valle	36449.28	TR200BAG+200PR	920.00	43.94	49.23	49.23	50.21	0.008106	4.68	225.45	292.05	0.83
Valle	36291.36	TR100	795.00	43.98	48.80	47.58	48.95	0.001437	2.03	556.60	385.76	0.35
Valle	36291.36	TR200	810.00	43.98	48.82	47.61	48.97	0.001441	2.04	564.03	385.82	0.35
Valle	36291.36	TR200BAG+200PR	920.00	43.98	48.96	48.27	49.11	0.001464	2.11	617.07	386.26	0.36
Valle	35747.93	TR100	795.00	42.59	48.33	46.59	48.46	0.000919	1.99	672.35	462.35	0.29
Valle	35747.93	TR200	810.00	42.59	48.35	46.62	48.48	0.000920	1.99	682.04	462.44	0.29
Valle	35747.93	TR200BAG+200PR	920.00	42.59	48.50	46.92	48.63	0.000921	2.04	752.41	463.13	0.29
Valle	35545.42	TR100	795.00	42.34	48.15	47.81	48.26	0.001277	2.10	646.99	444.14	0.33
Valle	35545.42	TR200	810.00	42.34	48.17	47.81	48.28	0.001269	2.10	656.73	444.19	0.33
Valle	35545.42	TR200BAG+200PR	920.00	42.34	48.33	47.81	48.44	0.001209	2.10	727.46	444.59	0.32
Valle	35351.76	TR100	795.00	42.14	47.94	47.19	48.04	0.001139	1.86	622.40	353.72	0.31
Valle	35351.76	TR200	810.00	42.14	47.96	47.20	48.06	0.001139	1.87	630.02	353.79	0.31
Valle	35351.76	TR200BAG+200PR	920.00	42.14	48.12	47.28	48.23	0.001134	1.92	686.12	354.36	0.31
Valle	35040.81	TR100	795.00	42.13	47.35	45.33	47.63	0.002212	2.43	374.85	358.40	0.43
Valle	35040.81	TR200	810.00	42.13	47.36	45.36	47.65	0.002260	2.46	377.71	358.62	0.44
Valle	35040.81	TR200BAG+200PR	920.00	42.13	47.47	45.62	47.80	0.002580	2.66	401.79	361.53	0.47
Valle	34798.32	TR100	795.00	41.31	46.70	46.68	46.97	0.003743	2.77	419.70	386.69	0.54
Valle	34798.32	TR200	810.00	41.31	46.73	46.68	46.99	0.003609	2.74	431.65	386.78	0.53
Valle	34798.32	TR200BAG+200PR	920.00	41.31	46.94	46.68	47.17	0.002900	2.58	513.55	388.52	0.49
Valle	34614.50	TR100	795.00	41.12	46.63	44.15	46.75	0.000728	1.64	651.44	418.04	0.26
Valle	34614.50	TR200	810.00	41.12	46.66	44.19	46.77	0.000728	1.65	667.08	421.00	0.26
Valle	34614.50	TR200BAG+200PR	920.00	41.12	46.85	44.39	46.97	0.000721	1.69	747.67	422.57	0.26
Valle	34274.00	TR100	795.00	40.26	46.34	44.28	46.48	0.001015	2.00	582.98	452.34	0.30
Valle	34274.00	TR200	810.00	40.26	46.36	44.33	46.50	0.001014	2.00	591.43	452.46	0.30
Valle	34274.00	TR200BAG+200PR	920.00	40.26	46.56	44.63	46.70	0.001001	2.03	654.03	453.94	0.30
Valle	33671.77	TR100	795.00	39.69	46.20	44.48	46.23	0.000318	1.10	1222.01	759.32	0.17

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	33671.77	TR200	810.00	39.69	46.24	44.52	46.26	0.000312	1.09	1245.56	759.42	0.17
Valle	33671.77	TR200BAG+200PR	920.00	39.69	46.46	45.24	46.49	0.000274	1.06	1416.04	760.11	0.16
Valle	32779.42	TR100	795.00	38.58	45.99	44.74	46.03	0.000404	1.24	1019.83	540.80	0.19
Valle	32779.42	TR200	810.00	38.58	46.03	44.73	46.07	0.000396	1.24	1039.17	540.89	0.18
Valle	32779.42	TR200BAG+200PR	920.00	38.58	46.28	44.74	46.32	0.000348	1.20	1175.88	542.83	0.17
Valle	32347.42	TR100	795.00	38.19	45.86	42.64	45.93	0.000367	1.37	802.00	301.19	0.19
Valle	32347.42	TR200	810.00	38.19	45.90	42.69	45.96	0.000367	1.37	813.04	301.29	0.19
Valle	32347.42	TR200BAG+200PR	920.00	38.19	46.16	43.16	46.22	0.000364	1.41	890.65	302.74	0.19
Valle	32093.57	TR100	795.00	37.36	45.83	41.17	45.87	0.000164	1.02	1044.04	335.98	0.13
Valle	32093.57	TR200	810.00	37.36	45.87	41.19	45.91	0.000165	1.02	1056.33	336.11	0.13
Valle	32093.57	TR200BAG+200PR	920.00	37.36	46.13	41.42	46.17	0.000171	1.07	1142.63	337.04	0.13
Valle	31897.06	TR100	795.00	37.28	45.78	41.79	45.84	0.000266	1.27	826.51	262.74	0.16
Valle	31897.06	TR200	810.00	37.28	45.82	41.83	45.88	0.000268	1.28	836.02	262.88	0.17
Valle	31897.06	TR200BAG+200PR	920.00	37.28	46.07	42.11	46.14	0.000278	1.34	892.83	263.71	0.17
Valle	31779.43	TR100	795.00	37.09	45.75	41.20	45.81	0.000230	1.23	815.47	250.09	0.15
Valle	31779.43	TR200	810.00	37.09	45.78	41.23	45.85	0.000232	1.24	824.42	250.24	0.16
Valle	31779.43	TR200BAG+200PR	920.00	37.09	46.03	41.46	46.11	0.000247	1.31	887.31	251.25	0.16
Valle	31716.97	TR100	795.00	37.07	45.73	41.03	45.80	0.000248	1.27	814.62	248.76	0.16
Valle	31716.97	TR200	810.00	37.07	45.77	41.07	45.83	0.000250	1.28	823.50	248.88	0.16
Valle	31716.97	TR200BAG+200PR	920.00	37.07	46.02	41.33	46.09	0.000264	1.35	885.89	249.66	0.17
Valle	31541.62	TR100	795.00	36.67	45.64	42.61	45.73	0.001025	1.59	718.73	279.02	0.21
Valle	31541.62	TR200	810.00	36.67	45.68	42.67	45.76	0.001023	1.60	728.75	279.09	0.21
Valle	31541.62	TR200BAG+200PR	920.00	36.67	45.93	44.03	46.02	0.001013	1.63	799.04	279.60	0.21
Valle	31254.47	TR100	795.00	35.94	45.37	43.48	45.45	0.001138	1.64	696.93	259.95	0.21
Valle	31254.47	TR200	810.00	35.94	45.41	43.50	45.49	0.001135	1.65	706.49	260.11	0.21
Valle	31254.47	TR200BAG+200PR	920.00	35.94	45.66	43.65	45.75	0.001119	1.68	773.28	261.12	0.21
Valle	31039.65	TR100	795.00	35.67	45.14	40.84	45.24	0.001027	1.65	690.49	269.91	0.21
Valle	31039.65	TR200	810.00	35.67	45.18	40.90	45.27	0.001025	1.66	700.63	270.07	0.21
Valle	31039.65	TR200BAG+200PR	920.00	35.67	45.44	41.37	45.54	0.001022	1.70	771.06	272.34	0.21
Valle	30820.78	TR100	795.00	34.89	44.99	41.09	45.06	0.000800	1.48	864.24	359.22	0.18
Valle	30820.78	TR200	810.00	34.89	45.03	41.15	45.09	0.000793	1.47	878.32	359.37	0.17
Valle	30820.78	TR200BAG+200PR	920.00	34.89	45.30	41.62	45.36	0.000756	1.48	975.17	360.35	0.17
Valle	30566.36	TR100	795.00	34.62	44.87	39.02	44.92	0.000471	1.21	992.55	413.00	0.15
Valle	30566.36	TR200	810.00	34.62	44.91	39.06	44.96	0.000469	1.21	1009.13	413.22	0.15
Valle	30566.36	TR200BAG+200PR	920.00	34.62	45.19	39.38	45.24	0.000461	1.23	1122.74	415.62	0.15
Valle	30391.41	TR100	795.00	34.69	44.80	40.77	44.84	0.000668	1.27	954.61	392.93	0.17
Valle	30391.41	TR200	810.00	34.69	44.84	40.85	44.89	0.000660	1.27	970.74	393.19	0.17
Valle	30391.41	TR200BAG+200PR	920.00	34.69	45.12	41.34	45.16	0.000620	1.27	1080.65	394.65	0.16
Valle	30048.68	TR100	795.00	34.37	44.60	40.92	44.66	0.000686	1.43	944.24	423.15	0.17
Valle	30048.68	TR200	810.00	34.37	44.65	40.98	44.71	0.000674	1.43	963.27	423.28	0.17
Valle	30048.68	TR200BAG+200PR	920.00	34.37	44.95	41.39	45.00	0.000589	1.37	1122.22	440.21	0.16
Valle	29865.97	TR100	795.00	34.14	44.45	41.42	44.52	0.001034	1.57	818.14	394.33	0.21
Valle	29865.97	TR200	810.00	34.14	44.50	41.49	44.57	0.001005	1.55	837.46	394.51	0.20
Valle	29865.97	TR200BAG+200PR	920.00	34.14	44.84	42.09	44.89	0.000786	1.42	1018.92	416.30	0.18
Valle	29664.58	TR100	795.00	33.69	44.38	39.75	44.41	0.000370	1.07	1175.05	436.43	0.13
Valle	29664.58	TR200	810.00	33.69	44.43	39.80	44.46	0.000364	1.06	1196.87	436.66	0.13
Valle	29664.58	TR200BAG+200PR	920.00	33.69	44.77	40.20	44.80	0.000327	1.04	1367.27	448.86	0.12
Valle	29386.48	TR100	795.00	33.35	44.28	39.19	44.32	0.000367	1.10	985.09	292.88	0.13
Valle	29386.48	TR200	810.00	33.35	44.33	39.22	44.37	0.000365	1.10	999.93	293.03	0.13
Valle	29386.48	TR200BAG+200PR	920.00	33.35	44.67	39.48	44.72	0.000351	1.11	1133.62	310.97	0.13
Valle	29169.83	TR100	795.00	32.91	44.21	39.22	44.25	0.000407	1.12	1086.64	369.61	0.13
Valle	29169.83	TR200	810.00	32.91	44.26	39.28	44.30	0.000402	1.12	1105.76	370.09	0.13
Valle	29169.83	TR200BAG+200PR	920.00	32.91	44.61	39.74	44.65	0.000375	1.11	1235.87	374.15	0.13
Valle	29015.68	TR100	795.00	32.55	44.18	39.27	44.21	0.000313	0.97	1221.56	404.60	0.12
Valle	29015.68	TR200	810.00	32.55	44.23	39.34	44.26	0.000309	0.97	1242.72	406.10	0.12
Valle	29015.68	TR200BAG+200PR	920.00	32.55	44.58	39.77	44.61	0.000290	0.97	1386.21	407.76	0.11
Valle	28759.46	TR100	795.00	32.68	44.13	38.80	44.15	0.000279	0.92	1338.84	462.10	0.11
Valle	28759.46	TR200	810.00	32.68	44.18	38.86	44.21	0.000274	0.92	1363.45	462.26	0.11
Valle	28759.46	TR200BAG+200PR	920.00	32.68	44.54	39.30	44.56	0.000239	0.89	1574.10	477.79	0.10
Valle	28555.6	TR100	795.00	32.36	44.09	37.61	44.12	0.000213	0.87	1333.47	389.87	0.10
Valle	28555.6	TR200	810.00	32.36	44.15	37.67	44.17	0.000211	0.88	1354.38	390.06	0.10
Valle	28555.6	TR200BAG+200PR	920.00	32.36	44.51	38.05	44.53	0.000204	0.89	1495.71	392.21	0.10
Valle	28457.03	TR100	795.00	32.27	44.05	37.93	44.09	0.000328	1.14	1044.60	303.21	0.12
Valle	28457.03	TR200	810.00	32.27	44.11	37.99	44.15	0.000326	1.14	1060.92	303.30	0.12
Valle	28457.03	TR200BAG+200PR	920.00	32.27	44.47	38.40	44.51	0.000319	1.16	1170.83	304.16	0.12
Valle	27927.31	TR100	795.00	32.04	43.97	38.73	44.00	0.000269	0.92	1264.10	382.11	0.11
Valle	27927.31	TR200	810.00	32.04	44.03	38.80	44.05	0.000266	0.92	1285.17	382.34	0.11
Valle	27927.31	TR200BAG+200PR	920.00	32.04	44.40	39.26	44.42	0.000241	0.90	1473.96	404.35	0.10

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	27499.75	TR100	795.00	31.92	43.86	38.64	43.90	0.000368	1.13	994.45	290.25	0.13
Valle	27499.75	TR200	810.00	31.92	43.92	38.70	43.96	0.000365	1.13	1010.84	290.52	0.13
Valle	27499.75	TR200BAG+200PR	920.00	31.92	44.30	39.17	44.34	0.000319	1.09	1194.49	314.61	0.12
Valle	27335.83	TR100	795.00	32.09	43.79	38.35	43.85	0.000490	1.35	868.89	255.99	0.15
Valle	27335.83	TR200	810.00	32.09	43.84	38.42	43.90	0.000486	1.35	883.56	256.31	0.15
Valle	27335.83	TR200BAG+200PR	920.00	32.09	44.24	38.87	44.29	0.000425	1.31	1046.69	278.55	0.14
Valle	27141.15	TR100	795.00	32.06	43.72	37.86	43.77	0.000400	1.22	898.11	226.33	0.14
Valle	27141.15	TR200	810.00	32.06	43.78	37.93	43.83	0.000399	1.22	911.12	226.73	0.14
Valle	27141.15	TR200BAG+200PR	920.00	32.06	44.19	38.35	44.23	0.000335	1.16	1131.03	270.41	0.13
Valle	26977.32	TR100	795.00	31.82	43.64	38.49	43.70	0.000617	1.38	789.89	225.57	0.16
Valle	26977.32	TR200	810.00	31.82	43.70	38.55	43.76	0.000611	1.38	803.05	225.72	0.16
Valle	26977.32	TR200BAG+200PR	920.00	31.82	44.11	39.21	44.17	0.000591	1.41	900.29	235.09	0.16
Valle	26894.95	TR100	795.00	31.17	43.66	37.98	43.67	0.000177	0.80	1588.63	506.28	0.09
Valle	26894.95	TR200	810.00	31.17	43.72	38.04	43.73	0.000174	0.79	1618.38	506.28	0.09
Valle	26894.95	TR200BAG+200PR	920.00	31.17	44.13	38.45	44.15	0.000155	0.77	1827.69	506.28	0.09
Valle	26258.51	TR100	795.00	31.25	43.55	38.43	43.58	0.000285	0.98	1277.62	410.19	0.11
Valle	26258.51	TR200	810.00	31.25	43.61	38.51	43.64	0.000279	0.97	1302.68	410.82	0.11
Valle	26258.51	TR200BAG+200PR	920.00	31.25	44.04	39.00	44.06	0.000229	0.91	1543.89	430.28	0.10
Valle	25708.58	TR100	795.00	30.84	43.50	38.05	43.51	0.000131	0.67	1757.97	490.02	0.08
Valle	25708.58	TR200	810.00	30.84	43.56	38.11	43.57	0.000128	0.67	1788.45	490.02	0.08
Valle	25708.58	TR200BAG+200PR	920.00	30.84	44.00	38.56	44.01	0.000116	0.66	2003.29	490.02	0.07
Valle	25450.79	TR100	795.00	30.72	43.47	36.92	43.48	0.000152	0.74	1574.19	425.48	0.08
Valle	25450.79	TR200	810.00	30.72	43.53	36.98	43.55	0.000150	0.74	1600.85	425.48	0.08
Valle	25450.79	TR200BAG+200PR	920.00	30.72	43.97	37.46	43.99	0.000138	0.74	1788.53	425.48	0.08
Valle	25190.00	TR100	795.00	30.55	43.43	36.43	43.45	0.000163	0.85	1503.66	422.41	0.09
Valle	25190.00	TR200	810.00	30.55	43.49	36.49	43.51	0.000161	0.84	1530.40	422.41	0.09
Valle	25190.00	TR200BAG+200PR	920.00	30.55	43.94	36.89	43.96	0.000147	0.83	1718.29	422.41	0.08
Valle	25022.74	TR100	795.00	30.56	43.40	36.24	43.43	0.000138	0.77	1309.49	268.64	0.08
Valle	25022.74	TR200	810.00	30.56	43.47	36.27	43.49	0.000138	0.78	1326.44	268.64	0.08
Valle	25022.74	TR200BAG+200PR	920.00	30.56	43.91	36.58	43.94	0.000139	0.81	1445.60	268.64	0.09
Valle	24820.04	TR100	795.00	30.33	43.35	36.39	43.39	0.000323	1.14	967.27	230.63	0.12
Valle	24820.04	TR200	810.00	30.33	43.41	36.45	43.46	0.000321	1.14	981.88	230.63	0.12
Valle	24820.04	TR200BAG+200PR	920.00	30.33	43.86	36.87	43.90	0.000311	1.16	1084.51	230.63	0.12
Valle	24682.68	TR100	795.00	30.42	43.30	37.84	43.35	0.000358	1.18	925.17	212.62	0.13
Valle	24682.68	TR200	810.00	30.42	43.37	37.90	43.41	0.000356	1.18	938.69	212.62	0.13
Valle	24682.68	TR200BAG+200PR	920.00	30.42	43.81	38.47	43.86	0.000344	1.20	1033.53	212.62	0.13
Valle	24541.75	TR100	795.00	30.36	43.25	37.54	43.30	0.000381	1.13	918.90	211.43	0.13
Valle	24541.75	TR200	810.00	30.36	43.32	37.67	43.36	0.000379	1.14	932.40	211.43	0.13
Valle	24541.75	TR200BAG+200PR	920.00	30.36	43.77	38.10	43.81	0.000364	1.16	1027.05	211.43	0.13
Valle	24400.02	TR100	795.00	30.34	43.15	37.82	43.23	0.000627	1.51	676.74	143.45	0.17
Valle	24400.02	TR200	810.00	30.34	43.21	38.13	43.30	0.000626	1.52	685.89	143.64	0.17
Valle	24400.02	TR200BAG+200PR	920.00	30.34	43.68	38.65	43.75	0.000534	1.45	834.16	163.72	0.16
Valle	24249.84	TR100	795.00	30.31	43.03	36.97	43.13	0.000771	1.62	643.54	148.87	0.18
Valle	24249.84	TR200	810.00	30.31	43.09	37.04	43.19	0.000768	1.63	653.11	148.87	0.18
Valle	24249.84	TR200BAG+200PR	920.00	30.31	43.56	37.50	43.66	0.000743	1.66	721.99	148.87	0.18
Valle	24074.80	TR100	795.00	30.18	42.98	35.79	43.04	0.000361	1.22	832.03	171.57	0.13
Valle	24074.80	TR200	810.00	30.18	43.05	35.85	43.11	0.000361	1.23	843.07	171.57	0.13
Valle	24074.80	TR200BAG+200PR	920.00	30.18	43.51	36.37	43.57	0.000361	1.27	922.56	171.57	0.13
Valle	23968.56	TR100	795.00	30.24	42.91	36.64	43.00	0.000557	1.57	693.60	143.51	0.16
Valle	23968.56	TR200	810.00	30.24	42.97	36.70	43.06	0.000558	1.57	702.81	143.51	0.16
Valle	23968.56	TR200BAG+200PR	920.00	30.24	43.44	37.14	43.53	0.000557	1.62	769.24	143.51	0.16
Valle	23773.85	TR100	795.00	30.39	42.84	37.25	42.90	0.000448	1.28	838.53	198.95	0.14
Valle	23773.85	TR200	810.00	30.39	42.91	37.31	42.97	0.000445	1.28	851.48	198.95	0.14
Valle	23773.85	TR200BAG+200PR	920.00	30.39	43.38	37.78	43.44	0.000422	1.29	944.75	198.95	0.14
Valle	23624.85	TR100	795.00	30.22	42.82	36.18	42.85	0.000237	0.97	1167.62	283.29	0.10
Valle	23624.85	TR200	810.00	30.22	42.89	36.24	42.92	0.000235	0.97	1186.20	283.29	0.10
Valle	23624.85	TR200BAG+200PR	920.00	30.22	43.36	36.71	43.39	0.000220	0.97	1320.01	283.29	0.10
Valle	23505.59	TR100	795.00	30.20	42.80	35.70	42.83	0.000228	0.99	1090.38	239.69	0.11
Valle	23505.59	TR200	810.00	30.20	42.86	35.76	42.90	0.000227	1.00	1106.10	239.69	0.11
Valle	23505.59	TR200BAG+200PR	920.00	30.20	43.33	36.15	43.37	0.000221	1.02	1219.38	239.69	0.11
Valle	23350.24	TR100	795.00	30.33	42.70	36.87	42.78	0.000619	1.47	703.40	159.79	0.17
Valle	23350.24	TR200	810.00	30.33	42.77	36.94	42.85	0.000615	1.48	713.90	159.79	0.17
Valle	23350.24	TR200BAG+200PR	920.00	30.33	43.24	37.46	43.33	0.000591	1.51	789.57	159.79	0.17
Valle	23107.37	TR100	795.00	30.20	42.58	36.51	42.66	0.000490	1.44	696.84	130.75	0.15
Valle	23107.37	TR200	810.00	30.20	42.65	36.57	42.73	0.000491	1.45	705.41	130.85	0.15
Valle	23107.37	TR200BAG+200PR	920.00	30.20	43.13	36.96	43.21	0.000472	1.47	808.41	144.43	0.15
Valle	22999.65	TR100	795.00	30.35	42.51	37.08	42.60	0.000604	1.52	674.38	145.63	0.17
Valle	22999.65	TR200	810.00	30.35	42.58	37.13	42.67	0.000603	1.53	683.97	145.63	0.17
Valle	22999.65	TR200BAG+200PR	920.00	30.35	43.06	37.51	43.15	0.000588	1.57	753.77	145.63	0.17

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	22697.86	TR100	795.00	30.07	42.53	35.58	42.54	0.000142	0.74	1527.03	375.81	0.08
Valle	22697.86	TR200	810.00	30.07	42.59	35.64	42.61	0.000141	0.74	1552.23	375.81	0.08
Valle	22697.86	TR200BAG+200PR	920.00	30.07	43.08	36.05	43.10	0.000129	0.73	1735.45	375.81	0.08
Valle	22161.23	TR100	795.00	29.29	42.49	35.63	42.50	0.000117	0.62	1845.72	504.77	0.07
Valle	22161.23	TR200	810.00	29.29	42.56	35.69	42.57	0.000115	0.62	1880.01	504.77	0.07
Valle	22161.23	TR200BAG+200PR	920.00	29.29	43.05	36.12	43.06	0.000100	0.60	2128.91	504.77	0.07
Valle	21810.02	TR100	795.00	29.09	42.46	34.46	42.48	0.000113	0.71	1562.11	325.26	0.07
Valle	21810.02	TR200	810.00	29.09	42.53	34.52	42.55	0.000113	0.71	1584.30	325.26	0.07
Valle	21810.02	TR200BAG+200PR	920.00	29.09	43.03	34.91	43.04	0.000108	0.72	1745.28	325.26	0.07
Valle	21545.47	TR100	795.00	29.08	42.44	35.66	42.46	0.000111	0.69	1578.51	338.97	0.07
Valle	21545.47	TR200	810.00	29.08	42.51	35.72	42.53	0.000110	0.69	1601.70	338.97	0.07
Valle	21545.47	TR200BAG+200PR	920.00	29.08	43.01	36.08	43.02	0.000105	0.70	1769.93	338.97	0.07
Valle	21317.90	TR100	795.00	28.68	42.39	35.89	42.43	0.000273	1.17	946.37	186.53	0.11
Valle	21317.90	TR200	810.00	28.68	42.46	35.96	42.50	0.000272	1.17	959.13	186.53	0.11
Valle	21317.90	TR200BAG+200PR	920.00	28.68	42.95	36.40	43.00	0.000267	1.20	1051.71	186.53	0.11
Valle	21224.30	TR100	795.00	28.61	42.33	35.69	42.40	0.000431	1.40	738.57	143.74	0.14
Valle	21224.30	TR200	810.00	28.61	42.39	35.76	42.47	0.000431	1.41	748.38	143.74	0.14
Valle	21224.30	TR200BAG+200PR	920.00	28.61	42.89	36.19	42.97	0.000427	1.45	819.52	143.74	0.14
Valle	21081.71	TR100	795.00	28.44	42.27	35.29	42.35	0.000417	1.29	728.80	139.80	0.14
Valle	21081.71	TR200	810.00	28.44	42.34	35.35	42.42	0.000418	1.30	738.32	139.80	0.14
Valle	21081.71	TR200BAG+200PR	920.00	28.44	42.84	35.80	42.91	0.000417	1.35	807.46	139.80	0.15
Valle	20980.62	TR100	795.00	28.53	42.22	34.71	42.30	0.000487	1.42	674.34	117.98	0.15
Valle	20980.62	TR200	810.00	28.53	42.29	34.78	42.37	0.000488	1.43	682.34	117.98	0.15
Valle	20980.62	TR200BAG+200PR	920.00	28.53	42.78	35.23	42.87	0.000496	1.49	740.44	117.98	0.15
Valle	20847.13	TR100	795.00	28.51	42.14	34.64	42.24	0.000516	1.53	622.12	104.04	0.16
Valle	20847.13	TR200	810.00	28.51	42.20	34.71	42.30	0.000519	1.54	629.09	104.04	0.16
Valle	20847.13	TR200BAG+200PR	920.00	28.51	42.69	35.15	42.80	0.000537	1.62	679.86	104.04	0.16
Valle	20656.02	TR100	795.00	28.49	42.05	35.74	42.13	0.000585	1.44	705.50	155.00	0.16
Valle	20656.02	TR200	810.00	28.49	42.12	35.81	42.20	0.000582	1.44	716.05	155.00	0.16
Valle	20656.02	TR200BAG+200PR	920.00	28.49	42.61	36.30	42.70	0.000558	1.47	792.92	155.00	0.16
Valle	20476.21	TR100	795.00	28.47	41.92	35.51	42.03	0.000641	1.66	619.98	122.43	0.17
Valle	20476.21	TR200	810.00	28.47	41.99	35.59	42.10	0.000641	1.67	628.31	122.43	0.17
Valle	20476.21	TR200BAG+200PR	920.00	28.47	42.49	36.38	42.60	0.000637	1.72	689.07	122.43	0.17
Valle	20273.56	TR100	795.00	28.22	41.86	35.64	41.94	0.000459	1.43	721.28	144.21	0.15
Valle	20273.56	TR200	810.00	28.22	41.93	35.70	42.01	0.000458	1.44	731.17	144.21	0.15
Valle	20273.56	TR200BAG+200PR	920.00	28.22	42.43	36.09	42.51	0.000453	1.48	803.38	144.21	0.15
Valle	20056.70	TR100	795.00	28.06	41.76	35.50	41.84	0.000487	1.42	685.23	131.85	0.15
Valle	20056.70	TR200	810.00	28.06	41.82	35.55	41.90	0.000487	1.43	694.25	131.85	0.15
Valle	20056.70	TR200BAG+200PR	920.00	28.06	42.32	35.94	42.41	0.000513	1.52	759.33	131.85	0.16
Valle	19942.82	TR100	795.00	28.02	41.59	34.77	41.76	0.000927	2.06	491.17	88.30	0.20
Valle	19942.82	TR200	810.00	28.02	41.65	34.83	41.83	0.000932	2.07	497.09	88.30	0.20
Valle	19942.82	TR200BAG+200PR	920.00	28.02	42.14	35.31	42.33	0.000966	2.17	539.83	88.30	0.20
Valle	19932		Bridge									
Valle	19919.06	TR100	795.00	27.84	41.47	35.24	41.68	0.001267	2.17	442.53	89.53	0.23
Valle	19919.06	TR200	810.00	27.84	41.53	35.31	41.74	0.001272	2.19	448.28	89.53	0.23
Valle	19919.06	TR200BAG+200PR	920.00	27.84	41.99	35.89	42.22	0.001299	2.29	489.78	89.53	0.24
Valle	19831.94	TR100	795.00	28.04	41.47	34.93	41.59	0.000811	1.75	590.06	125.28	0.18
Valle	19831.94	TR200	810.00	28.04	41.53	35.00	41.65	0.000810	1.76	598.28	125.28	0.18
Valle	19831.94	TR200BAG+200PR	920.00	28.04	42.01	35.47	42.13	0.000804	1.81	657.55	125.28	0.18
Valle	19753.42	TR100	795.00	27.83	41.42	34.72	41.51	0.001274	1.48	680.13	128.09	0.15
Valle	19753.42	TR200	810.00	27.83	41.49	34.78	41.58	0.001279	1.49	688.50	128.09	0.16
Valle	19753.42	TR200BAG+200PR	920.00	27.83	41.96	35.21	42.05	0.001305	1.55	748.85	128.09	0.16
Valle	19594.38	TR100	795.00	27.90	41.28	35.23	41.34	0.000987	1.28	822.31	160.24	0.13
Valle	19594.38	TR200	810.00	27.90	41.34	35.30	41.40	0.000987	1.28	832.81	160.24	0.14
Valle	19594.38	TR200BAG+200PR	920.00	27.90	41.82	35.94	41.88	0.000983	1.33	908.67	160.24	0.14
Valle	19330.03	TR100	795.00	27.56	41.20	33.66	41.22	0.000367	0.82	1375.91	297.88	0.09
Valle	19330.03	TR200	810.00	27.56	41.27	33.72	41.29	0.000365	0.83	1395.73	297.88	0.09
Valle	19330.03	TR200BAG+200PR	920.00	27.56	41.75	34.15	41.77	0.000352	0.84	1538.90	297.88	0.08
Valle	19074.17	TR100	795.00	27.44	41.04	34.03	41.11	0.000911	1.30	774.21	141.29	0.14
Valle	19074.17	TR200	810.00	27.44	41.11	34.09	41.18	0.000914	1.31	783.56	141.29	0.14
Valle	19074.17	TR200BAG+200PR	920.00	27.44	41.58	34.49	41.66	0.000935	1.37	851.25	141.29	0.14
Valle	18855.21	TR100	795.00	27.41	40.84	34.60	40.91	0.001096	1.33	823.52	198.48	0.14
Valle	18855.21	TR200	810.00	27.41	40.91	34.67	40.98	0.001088	1.33	836.93	198.48	0.14
Valle	18855.21	TR200BAG+200PR	920.00	27.41	41.40	35.10	41.46	0.001031	1.34	934.06	198.48	0.14
Valle	18747.57	TR100	795.00	27.49	40.75	34.67	40.80	0.000991	1.24	880.88	193.10	0.13
Valle	18747.57	TR200	810.00	27.49	40.81	34.74	40.87	0.000984	1.24	894.04	193.10	0.13
Valle	18747.57	TR200BAG+200PR	920.00	27.49	41.31	35.22	41.36	0.000939	1.26	989.36	193.10	0.13

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	18475.44	TR100	795.00	27.55	40.65	33.86	40.67	0.000382	0.78	1397.93	308.46	0.09
Valle	18475.44	TR200	810.00	27.55	40.71	33.92	40.73	0.000379	0.78	1419.37	308.46	0.09
Valle	18475.44	TR200BAG+200PR	920.00	27.55	41.22	34.50	41.24	0.000355	0.79	1574.50	308.46	0.08
Valle	18284.36	TR100	795.00	27.20	40.55	31.64	40.60	0.000502	1.01	1009.39	178.60	0.10
Valle	18284.36	TR200	810.00	27.20	40.62	31.69	40.67	0.000504	1.02	1021.80	178.60	0.10
Valle	18284.36	TR200BAG+200PR	920.00	27.20	41.13	32.04	41.17	0.000515	1.06	1111.63	178.60	0.10
Valle	18123.04	TR100	795.00	27.32	40.42	34.02	40.49	0.001046	1.35	820.47	171.90	0.14
Valle	18123.04	TR200	810.00	27.32	40.49	34.09	40.56	0.001041	1.36	832.45	171.90	0.14
Valle	18123.04	TR200BAG+200PR	920.00	27.32	41.00	34.57	41.06	0.001005	1.38	919.27	171.90	0.14
Valle	17808.36	TR100	795.00	26.94	40.32	33.55	40.33	0.000368	0.75	1412.20	301.22	0.08
Valle	17808.36	TR200	810.00	26.94	40.39	33.62	40.41	0.000365	0.75	1433.63	301.22	0.08
Valle	17808.36	TR200BAG+200PR	920.00	26.94	40.90	34.11	40.92	0.000342	0.76	1588.77	301.22	0.08
Valle	17622.30	TR100	795.00	26.86	40.27	33.86	40.29	0.000356	0.77	1369.15	267.00	0.08
Valle	17622.30	TR200	810.00	26.86	40.34	33.91	40.36	0.000354	0.77	1388.25	267.00	0.08
Valle	17622.30	TR200BAG+200PR	920.00	26.86	40.86	34.34	40.88	0.000340	0.79	1526.48	267.00	0.08
Valle	17400.17	TR100	795.00	26.49	40.13	33.12	40.18	0.000720	1.14	931.00	174.00	0.12
Valle	17400.17	TR200	810.00	26.49	40.20	33.19	40.25	0.000719	1.14	943.50	174.00	0.12
Valle	17400.17	TR200BAG+200PR	920.00	26.49	40.72	33.65	40.77	0.000706	1.17	1033.93	174.00	0.12
Valle	17140.63	TR100	795.00	26.41	40.02	32.62	40.05	0.000484	0.98	1118.04	211.63	0.10
Valle	17140.63	TR200	810.00	26.41	40.09	32.68	40.12	0.000483	0.98	1133.37	211.63	0.10
Valle	17140.63	TR200BAG+200PR	920.00	26.41	40.62	33.14	40.65	0.000472	1.00	1244.42	211.63	0.10
Valle	16863.50	TR100	795.00	26.18	39.95	32.84	39.97	0.000325	0.70	1503.03	316.00	0.08
Valle	16863.50	TR200	810.00	26.18	40.03	32.91	40.04	0.000322	0.70	1526.21	316.00	0.08
Valle	16863.50	TR200BAG+200PR	920.00	26.18	40.56	33.41	40.57	0.000300	0.71	1693.92	316.00	0.08
Valle	16636.60	TR100	795.00	26.32	39.83	31.90	39.89	0.000711	1.20	881.02	151.82	0.12
Valle	16636.60	TR200	810.00	26.32	39.91	31.96	39.96	0.000712	1.21	892.19	151.82	0.12
Valle	16636.60	TR200BAG+200PR	920.00	26.32	40.44	32.39	40.50	0.000714	1.25	973.02	151.82	0.12
Valle	16525.94	TR100	795.00	26.06	39.78	33.14	39.81	0.000599	1.03	1028.03	190.23	0.11
Valle	16525.94	TR200	810.00	26.06	39.85	33.34	39.89	0.000597	1.04	1042.08	190.23	0.11
Valle	16525.94	TR200BAG+200PR	920.00	26.06	40.39	33.96	40.43	0.000580	1.06	1143.82	190.23	0.11
Valle	16263.78	TR100	795.00	26.08	39.60	33.00	39.64	0.000824	1.16	894.30	169.92	0.12
Valle	16263.78	TR200	810.00	26.08	39.67	33.07	39.72	0.000820	1.17	906.98	169.92	0.12
Valle	16263.78	TR200BAG+200PR	920.00	26.08	40.21	33.60	40.26	0.000790	1.19	998.84	169.92	0.12
Valle	15896.49	TR100	795.00	25.58	39.54	32.21	39.55	0.000190	0.58	2034.51	479.64	0.06
Valle	15896.49	TR200	810.00	25.58	39.62	32.27	39.63	0.000187	0.58	2071.16	479.64	0.06
Valle	15896.49	TR200BAG+200PR	920.00	25.58	40.17	32.70	40.18	0.000167	0.57	2335.96	479.64	0.06
Valle	15451.12	TR100	795.00	25.62	39.46	32.50	39.47	0.000333	0.74	1447.23	286.15	0.08
Valle	15451.12	TR200	810.00	25.62	39.53	32.56	39.55	0.000330	0.74	1469.44	286.15	0.08
Valle	15451.12	TR200BAG+200PR	920.00	25.62	40.09	33.04	40.11	0.000308	0.74	1629.55	286.15	0.08
Valle	15201.75	TR100	795.00	26.11	39.40	32.29	39.42	0.000258	0.67	1568.03	302.27	0.07
Valle	15201.75	TR200	810.00	26.11	39.48	32.34	39.50	0.000256	0.67	1591.67	302.27	0.07
Valle	15201.75	TR200BAG+200PR	920.00	26.11	40.04	32.68	40.06	0.000241	0.68	1762.00	302.27	0.07
Valle	14827.92	TR100	795.00	25.50	39.34	32.20	39.35	0.000205	0.56	1935.20	432.36	0.06
Valle	14827.92	TR200	810.00	25.50	39.42	32.30	39.43	0.000201	0.56	1969.48	432.36	0.06
Valle	14827.92	TR200BAG+200PR	920.00	25.50	39.99	32.68	40.00	0.000180	0.55	2216.14	432.36	0.06
Valle	14578.89	TR100	795.00	25.35	39.29	31.03	39.31	0.000259	0.65	1616.54	314.53	0.07
Valle	14578.89	TR200	810.00	25.35	39.37	31.10	39.39	0.000256	0.65	1641.67	314.53	0.07
Valle	14578.89	TR200BAG+200PR	920.00	25.35	39.95	31.52	39.96	0.000238	0.65	1822.32	314.53	0.07
Valle	14336.84	TR100	795.00	25.30	39.24	29.67	39.26	0.000206	0.66	1598.63	273.76	0.07
Valle	14336.84	TR200	810.00	25.30	39.32	29.72	39.34	0.000206	0.67	1620.59	273.76	0.07
Valle	14336.84	TR200BAG+200PR	920.00	25.30	39.90	30.05	39.91	0.000201	0.68	1778.41	273.76	0.07
Valle	14088.45	TR100	795.00	25.33	39.15	32.59	39.18	0.000525	0.96	1087.97	196.96	0.10
Valle	14088.45	TR200	810.00	25.33	39.23	32.65	39.26	0.000522	0.97	1103.83	196.96	0.10
Valle	14088.45	TR200BAG+200PR	920.00	25.33	39.81	33.07	39.84	0.000499	0.98	1217.75	196.96	0.10
Valle	13825.13	TR100	795.00	24.93	39.05	32.63	39.07	0.000395	0.83	1298.62	246.56	0.09
Valle	13825.13	TR200	810.00	24.93	39.13	32.70	39.15	0.000391	0.83	1318.74	246.56	0.09
Valle	13825.13	TR200BAG+200PR	920.00	24.93	39.72	33.30	39.74	0.000365	0.83	1463.12	246.56	0.08
Valle	13676.20	TR100	795.00	24.84	38.98	31.15	39.01	0.000481	1.00	1101.43	191.67	0.10
Valle	13676.20	TR200	810.00	24.84	39.06	31.22	39.10	0.000479	1.00	1117.15	191.67	0.10
Valle	13676.20	TR200BAG+200PR	920.00	24.84	39.65	31.68	39.69	0.000463	1.02	1229.89	191.67	0.09
Valle	13449.69	TR100	795.00	24.82	38.91	31.01	38.94	0.000275	0.74	1338.96	220.58	0.08
Valle	13449.69	TR200	810.00	24.82	39.00	31.05	39.02	0.000275	0.75	1357.11	220.58	0.08
Valle	13449.69	TR200BAG+200PR	920.00	24.82	39.59	31.33	39.61	0.000270	0.77	1487.29	220.58	0.08
Valle	13207.25	TR100	795.00	24.82	38.81	32.06	38.85	0.000586	1.00	980.65	165.22	0.11
Valle	13207.25	TR200	810.00	24.82	38.89	32.11	38.93	0.000583	1.00	994.28	165.22	0.11
Valle	13207.25	TR200BAG+200PR	920.00	24.82	39.48	32.45	39.52	0.000566	1.03	1092.02	165.22	0.11
Valle	12962.78	TR100	795.00	24.44	38.71	31.13	38.74	0.000408	0.87	1186.55	203.29	0.09
Valle	12962.78	TR200	810.00	24.44	38.79	31.20	38.82	0.000405	0.87	1203.47	203.29	0.09
Valle	12962.78	TR200BAG+200PR	920.00	24.44	39.39	31.84	39.42	0.000390	0.89	1324.77	203.29	0.09

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	12700.18	TR100	795.00	24.41	38.58	30.32	38.62	0.000481	1.00	978.98	146.46	0.10
Valle	12700.18	TR200	810.00	24.41	38.67	30.37	38.71	0.000482	1.00	991.18	146.46	0.10
Valle	12700.18	TR200BAG+200PR	920.00	24.41	39.26	30.70	39.31	0.000485	1.04	1078.61	146.46	0.10
Valle	12462.76	TR100	795.00	24.49	38.59	30.92	38.59	0.000068	0.35	3196.76	644.65	0.04
Valle	12462.76	TR200	810.00	24.49	38.67	30.99	38.68	0.000067	0.35	3250.94	644.65	0.04
Valle	12462.76	TR200BAG+200PR	920.00	24.49	39.28	31.49	39.28	0.000060	0.35	3639.29	644.65	0.03
Valle	12145.81	TR100	795.00	24.21	38.57	30.33	38.58	0.000086	0.42	2566.60	448.83	0.04
Valle	12145.81	TR200	810.00	24.21	38.66	30.38	38.66	0.000085	0.42	2604.42	448.83	0.04
Valle	12145.81	TR200BAG+200PR	920.00	24.21	39.26	30.71	39.26	0.000081	0.42	2875.38	448.83	0.04
Valle	11848.67	TR100	795.00	24.10	38.51	30.28	38.54	0.000357	0.86	1173.06	175.35	0.09
Valle	11848.67	TR200	810.00	24.10	38.59	30.34	38.62	0.000357	0.87	1187.84	175.35	0.09
Valle	11848.67	TR200BAG+200PR	920.00	24.10	39.20	30.82	39.23	0.000355	0.90	1293.70	175.35	0.09
Valle	11572.95	TR100	795.00	24.12	38.36	31.34	38.41	0.000630	1.09	927.44	146.06	0.11
Valle	11572.95	TR200	810.00	24.12	38.45	31.41	38.49	0.000628	1.10	939.76	146.06	0.11
Valle	11572.95	TR200BAG+200PR	920.00	24.12	39.05	31.89	39.10	0.000617	1.13	1028.04	146.06	0.11
Valle	11296.23	TR100	795.00	24.21	38.19	30.01	38.24	0.000578	1.14	843.14	118.53	0.11
Valle	11296.23	TR200	810.00	24.21	38.27	30.06	38.33	0.000580	1.15	853.09	118.53	0.11
Valle	11296.23	TR200BAG+200PR	920.00	24.21	38.87	30.39	38.94	0.000593	1.20	924.42	118.53	0.11
Valle	11093.14	TR100	795.00	24.34	38.11	30.70	38.14	0.000508	0.97	1057.75	176.12	0.10
Valle	11093.14	TR200	810.00	24.34	38.19	30.77	38.22	0.000505	0.97	1072.65	176.12	0.10
Valle	11093.14	TR200BAG+200PR	920.00	24.34	38.80	31.26	38.83	0.000487	0.99	1179.44	176.12	0.10
Valle	10883.58	TR100	795.00	24.24	38.07	30.65	38.08	0.000184	0.61	1631.05	235.24	0.06
Valle	10883.58	TR200	810.00	24.24	38.15	30.71	38.17	0.000184	0.61	1651.00	235.24	0.06
Valle	10883.58	TR200BAG+200PR	920.00	24.24	38.76	31.22	38.77	0.000182	0.64	1794.04	235.24	0.06
Valle	10838		Bridge									
Valle	10808.62	TR100	795.00	24.31	38.00	31.08	38.02	0.000205	0.65	1592.39	241.35	0.06
Valle	10808.62	TR200	810.00	24.31	38.09	31.17	38.10	0.000205	0.65	1612.50	241.35	0.06
Valle	10808.62	TR200BAG+200PR	920.00	24.31	38.68	31.63	38.70	0.000201	0.67	1756.51	241.35	0.06
Valle	10625.76	TR100	795.00	23.84	37.92	30.73	37.96	0.000534	1.02	961.59	141.32	0.10
Valle	10625.76	TR200	810.00	23.84	38.00	30.79	38.05	0.000534	1.03	973.34	141.32	0.10
Valle	10625.76	TR200BAG+200PR	920.00	23.84	38.60	31.23	38.64	0.000535	1.07	1057.42	141.32	0.11
Valle	10384.01	TR100	795.00	23.63	37.82	29.71	37.86	0.000443	0.97	1083.24	171.91	0.09
Valle	10384.01	TR200	810.00	23.63	37.91	29.78	37.94	0.000442	0.98	1097.59	171.91	0.09
Valle	10384.01	TR200BAG+200PR	920.00	23.63	38.51	30.26	38.54	0.000436	1.01	1200.37	171.91	0.09
Valle	10164.65	TR100	795.00	23.68	37.68	30.46	37.74	0.000732	1.24	804.48	115.52	0.12
Valle	10164.65	TR200	810.00	23.68	37.77	30.52	37.83	0.000733	1.24	814.08	115.52	0.12
Valle	10164.65	TR200BAG+200PR	920.00	23.68	38.36	30.93	38.43	0.000743	1.30	882.84	115.52	0.13
Valle	9853.624	TR100	795.00	23.70	37.59	30.90	37.61	0.000290	0.77	1354.08	211.73	0.08
Valle	9853.624	TR200	810.00	23.70	37.67	30.97	37.69	0.000289	0.77	1371.82	211.73	0.08
Valle	9853.624	TR200BAG+200PR	920.00	23.70	38.27	31.41	38.29	0.000283	0.79	1498.95	211.73	0.08
Valle	9716.848	TR100	795.00	23.71	37.49	29.71	37.55	0.000762	1.23	795.19	116.94	0.12
Valle	9716.848	TR200	810.00	23.71	37.57	29.77	37.63	0.000763	1.24	804.94	116.94	0.12
Valle	9716.848	TR200BAG+200PR	920.00	23.71	38.17	30.20	38.23	0.000769	1.29	874.82	116.94	0.13
Valle	9552.186	TR100	795.00	23.70	37.36	30.78	37.42	0.000775	1.31	809.15	121.67	0.13
Valle	9552.186	TR200	810.00	23.70	37.45	30.86	37.51	0.000775	1.32	819.30	121.67	0.13
Valle	9552.186	TR200BAG+200PR	920.00	23.70	38.04	31.66	38.11	0.000774	1.37	892.03	121.67	0.13
Valle	9422.668	TR100	795.00	23.64	37.32	29.95	37.35	0.000418	0.94	1053.18	148.66	0.09
Valle	9422.668	TR200	810.00	23.64	37.40	30.00	37.43	0.000418	0.95	1065.59	148.66	0.09
Valle	9422.668	TR200BAG+200PR	920.00	23.64	38.00	30.38	38.04	0.000421	0.99	1154.61	148.66	0.09
Valle	9270.217	TR100	795.00	23.35	37.23	30.14	37.27	0.000622	1.11	891.93	132.47	0.11
Valle	9270.217	TR200	810.00	23.35	37.31	30.26	37.36	0.000622	1.11	902.97	132.47	0.11
Valle	9270.217	TR200BAG+200PR	920.00	23.35	37.91	30.76	37.96	0.000620	1.16	982.17	132.47	0.11
Valle	9147.280	TR100	795.00	23.56	37.15	29.87	37.19	0.000663	1.15	885.87	136.74	0.11
Valle	9147.280	TR200	810.00	23.56	37.23	29.94	37.28	0.000662	1.15	897.28	136.74	0.11
Valle	9147.280	TR200BAG+200PR	920.00	23.56	37.83	30.46	37.88	0.000655	1.19	979.16	136.74	0.11
Valle	9011.580	TR100	795.00	23.52	37.11	29.67	37.13	0.000315	0.80	1286.15	198.56	0.08
Valle	9011.580	TR200	810.00	23.52	37.20	29.73	37.22	0.000315	0.80	1302.80	198.56	0.08
Valle	9011.580	TR200BAG+200PR	920.00	23.52	37.80	30.31	37.82	0.000308	0.82	1422.22	198.56	0.08
Valle	8866.367	TR100	795.00	23.49	37.05	30.15	37.08	0.000436	0.95	1052.76	155.65	0.10
Valle	8866.367	TR200	810.00	23.49	37.13	30.20	37.16	0.000436	0.95	1065.80	155.65	0.10
Valle	8866.367	TR200BAG+200PR	920.00	23.49	37.73	30.60	37.77	0.000433	0.99	1159.34	155.65	0.10
Valle	8790.411	TR100	795.00	23.54	37.00	30.25	37.04	0.000566	1.05	943.34	139.53	0.11
Valle	8790.411	TR200	810.00	23.54	37.08	30.32	37.13	0.000566	1.06	955.02	139.53	0.11
Valle	8790.411	TR200BAG+200PR	920.00	23.54	37.69	30.74	37.73	0.000563	1.10	1038.81	139.53	0.11
Valle	8676.232	TR100	795.00	23.38	36.97	29.94	37.00	0.000335	0.85	1236.79	189.76	0.08
Valle	8676.232	TR200	810.00	23.38	37.06	30.02	37.08	0.000334	0.85	1252.74	189.76	0.08
Valle	8676.232	TR200BAG+200PR	920.00	23.38	37.66	30.56	37.69	0.000329	0.87	1367.14	189.76	0.08



HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

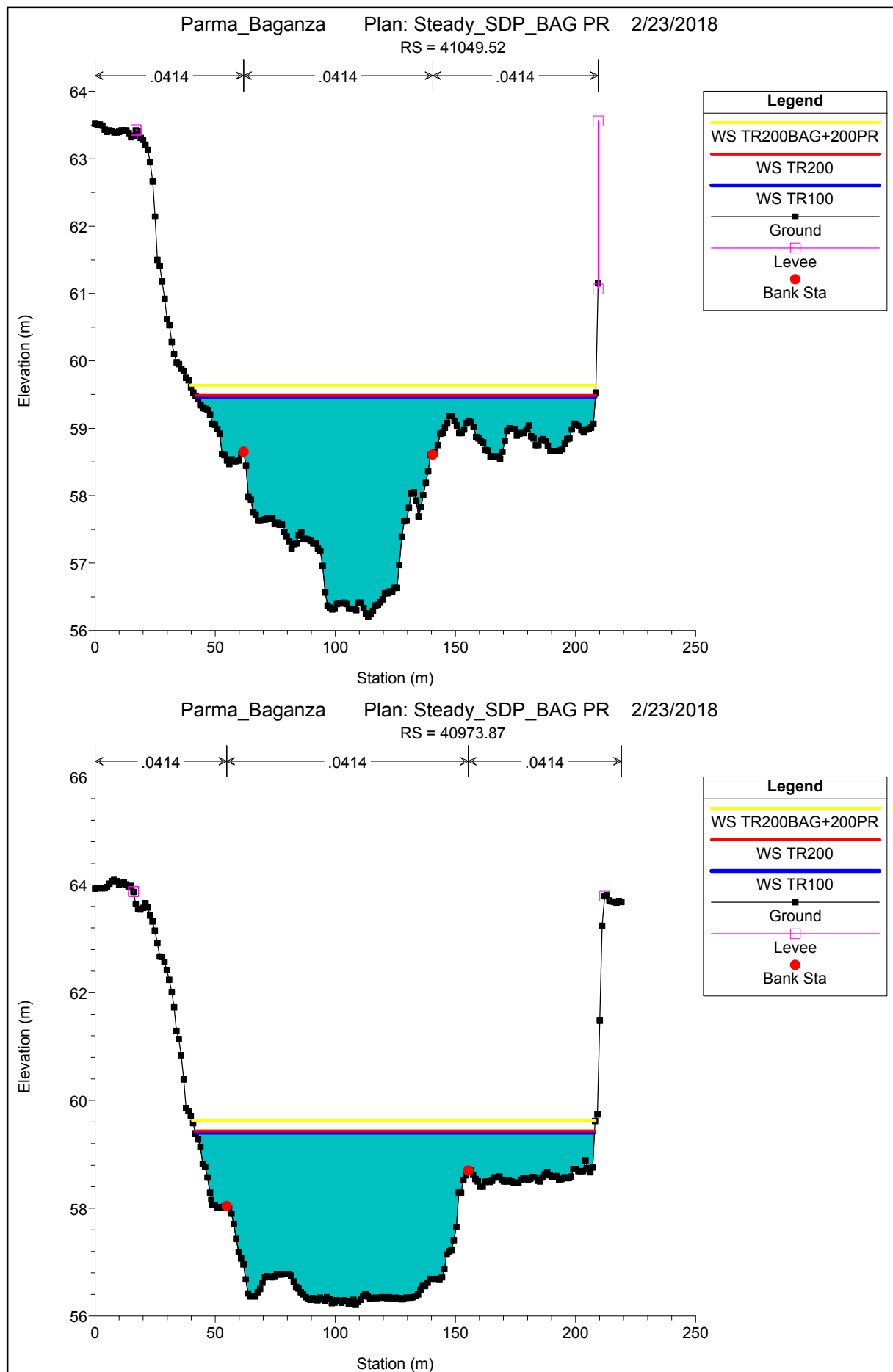
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	8556.530	TR100	795.00	23.65	36.93	31.06	36.96	0.000439	0.94	1077.98	159.91	0.09
Valle	8556.530	TR200	810.00	23.65	37.01	31.10	37.04	0.000439	0.95	1091.41	159.91	0.09
Valle	8556.530	TR200BAG+200PR	920.00	23.65	37.62	31.30	37.65	0.000434	0.98	1187.81	159.91	0.09
Valle	8447.122	TR100	795.00	23.17	36.87	30.21	36.91	0.000567	1.12	919.67	133.04	0.11
Valle	8447.122	TR200	810.00	23.17	36.95	30.27	37.00	0.000568	1.12	930.83	133.04	0.11
Valle	8447.122	TR200BAG+200PR	920.00	23.17	37.56	30.75	37.60	0.000570	1.17	1010.94	133.04	0.11
Valle	8312.702	TR100	795.00	23.26	36.80	29.64	36.84	0.000529	1.09	938.13	132.40	0.10
Valle	8312.702	TR200	810.00	23.26	36.88	29.71	36.92	0.000529	1.10	949.22	132.40	0.10
Valle	8312.702	TR200BAG+200PR	920.00	23.26	37.48	30.13	37.53	0.000535	1.14	1028.87	132.40	0.11
Valle	8195.470	TR100	795.00	23.09	36.74	29.30	36.78	0.000484	1.02	993.25	144.10	0.10
Valle	8195.470	TR200	810.00	23.09	36.83	29.36	36.87	0.000485	1.03	1005.33	144.10	0.10
Valle	8195.470	TR200BAG+200PR	920.00	23.09	37.43	29.96	37.47	0.000486	1.07	1092.05	144.10	0.10
Valle	8088.245	TR100	795.00	23.28	36.65	29.54	36.72	0.000778	1.34	769.41	110.93	0.13
Valle	8088.245	TR200	810.00	23.28	36.73	29.60	36.80	0.000779	1.35	778.66	110.93	0.13
Valle	8088.245	TR200BAG+200PR	920.00	23.28	37.33	30.05	37.40	0.000788	1.40	845.12	110.93	0.13
Valle	7848.724	TR100	795.00	23.63	36.54	29.57	36.58	0.000494	1.02	984.29	143.49	0.10
Valle	7848.724	TR200	810.00	23.63	36.62	29.63	36.66	0.000495	1.02	996.28	143.49	0.10
Valle	7848.724	TR200BAG+200PR	920.00	23.63	37.22	30.40	37.26	0.000495	1.06	1082.47	143.49	0.10
Valle	7708.453	TR100	795.00	23.86	36.39	30.68	36.48	0.001113	1.52	675.52	100.76	0.15
Valle	7708.453	TR200	810.00	23.86	36.47	30.73	36.56	0.001114	1.53	683.89	100.76	0.15
Valle	7708.453	TR200BAG+200PR	920.00	23.86	37.07	31.03	37.16	0.001117	1.59	744.06	100.76	0.15
Valle	7517.986	TR100	795.00	23.50	36.20	28.90	36.29	0.000699	1.40	697.85	98.48	0.14
Valle	7517.986	TR200	810.00	23.50	36.29	28.95	36.37	0.000902	1.41	705.96	98.48	0.14
Valle	7517.986	TR200BAG+200PR	920.00	23.50	36.88	29.30	36.97	0.000924	1.48	764.41	98.48	0.14
Valle	7344.482	TR100	795.00	23.42	36.10	28.94	36.15	0.000671	1.23	831.50	115.86	0.12
Valle	7344.482	TR200	810.00	23.42	36.18	28.99	36.24	0.000674	1.23	841.03	115.86	0.12
Valle	7344.482	TR200BAG+200PR	920.00	23.42	36.77	29.30	36.83	0.000685	1.29	909.76	115.86	0.12
Valle	7231.088	TR100	795.00	23.03	36.05	28.77	36.09	0.000513	1.08	927.50	127.88	0.11
Valle	7231.088	TR200	810.00	23.03	36.13	28.81	36.17	0.000514	1.09	938.01	127.88	0.11
Valle	7231.088	TR200BAG+200PR	920.00	23.03	36.72	29.09	36.77	0.000524	1.14	1013.86	127.88	0.11
Valle	7100.234	TR100	795.00	23.50	35.94	29.18	36.01	0.000796	1.36	773.44	109.34	0.13
Valle	7100.234	TR200	810.00	23.50	36.03	29.28	36.09	0.000799	1.37	782.38	109.34	0.13
Valle	7100.234	TR200BAG+200PR	920.00	23.50	36.62	29.41	36.69	0.000811	1.42	846.90	109.34	0.13
Valle	6703.219	TR100	795.00	21.42	35.50	28.58	35.62	0.001331	1.71	571.27	79.61	0.17
Valle	6703.219	TR200	810.00	21.42	35.58	28.65	35.70	0.001339	1.72	577.57	79.61	0.17
Valle	6703.219	TR200BAG+200PR	920.00	21.42	36.15	29.05	36.29	0.001390	1.82	623.31	79.61	0.17
Valle	6619.828	TR100	795.00	21.68	35.31	28.75	35.49	0.001898	2.06	467.54	62.99	0.20
Valle	6619.828	TR200	810.00	21.68	35.38	28.81	35.57	0.001914	2.08	472.40	62.99	0.20
Valle	6619.828	TR200BAG+200PR	920.00	21.68	35.94	29.24	36.15	0.002015	2.21	507.69	62.99	0.21
Valle	6531.506	TR100	795.00	21.88	35.09	28.75	35.31	0.002226	2.21	430.18	53.06	0.21
Valle	6531.506	TR200	810.00	21.88	35.17	28.81	35.39	0.002251	2.23	434.12	53.06	0.21
Valle	6531.506	TR200BAG+200PR	920.00	21.88	35.71	29.22	35.95	0.002410	2.38	462.81	53.06	0.22
Valle	6525		Bridge									
Valle	6518.361	TR100	795.00	21.88	34.96	28.77	35.19	0.002322	2.35	423.00	53.06	0.22
Valle	6518.361	TR200	810.00	21.88	35.03	28.83	35.27	0.002348	2.38	426.92	53.06	0.22
Valle	6518.361	TR200BAG+200PR	920.00	21.88	35.57	29.21	35.84	0.002516	2.54	455.51	53.06	0.23
Valle	6483.421	TR100	795.00	22.16	34.91	28.58	35.11	0.002072	2.13	436.99	54.89	0.21
Valle	6483.421	TR200	810.00	22.16	34.98	28.63	35.19	0.002095	2.15	441.02	54.89	0.21
Valle	6483.421	TR200BAG+200PR	920.00	22.16	35.52	28.98	35.75	0.002243	2.30	470.41	54.89	0.22
Valle	6408.034	TR100	795.00	22.07	34.74	28.67	34.95	0.002247	2.28	437.05	55.00	0.22
Valle	6408.034	TR200	810.00	22.07	34.81	28.72	35.03	0.002273	2.30	440.97	55.00	0.22
Valle	6408.034	TR200BAG+200PR	920.00	22.07	35.33	29.09	35.58	0.002444	2.46	469.74	55.00	0.23
Valle	6278.423	TR100	795.00	21.72	34.51	28.19	34.68	0.001931	2.09	472.44	59.83	0.19
Valle	6278.423	TR200	810.00	21.72	34.57	28.16	34.75	0.001955	2.11	476.56	59.83	0.20
Valle	6278.423	TR200BAG+200PR	920.00	21.72	35.08	28.85	35.28	0.002109	2.25	506.89	59.83	0.20
Valle	6273		Bridge									
Valle	6265.245	TR100	795.00	21.70	34.23	28.19	34.44	0.002445	2.22	428.70	59.33	0.22
Valle	6265.245	TR200	810.00	21.70	34.30	28.25	34.51	0.002470	2.24	432.77	59.33	0.22
Valle	6265.245	TR200BAG+200PR	920.00	21.70	34.81	28.51	35.04	0.002627	2.38	463.00	59.33	0.23
Valle	6109.079	TR100	795.00	21.40	33.85	28.15	34.05	0.002498	2.21	448.24	75.27	0.22
Valle	6109.079	TR200	810.00	21.40	33.92	28.21	34.12	0.002517	2.23	453.21	75.27	0.22
Valle	6109.079	TR200BAG+200PR	920.00	21.40	34.41	28.70	34.64	0.002611	2.34	490.69	75.27	0.22
Valle	5748.131	TR100	795.00	20.17	33.46	27.09	33.53	0.000952	1.44	795.63	158.51	0.14
Valle	5748.131	TR200	810.00	20.17	33.53	27.15	33.60	0.000951	1.44	806.28	158.51	0.14
Valle	5748.131	TR200BAG+200PR	920.00	20.17	34.04	27.58	34.11	0.000931	1.47	887.85	158.51	0.14
Valle	5504.071	TR100	795.00	19.87	33.41	24.14	33.43	0.000228	0.70	1495.38	260.96	0.07
Valle	5504.071	TR200	810.00	19.87	33.48	24.19	33.50	0.000228	0.71	1512.91	260.96	0.07
Valle	5504.071	TR200BAG+200PR	920.00	19.87	33.99	24.54	34.01	0.000229	0.73	1647.52	260.96	0.07

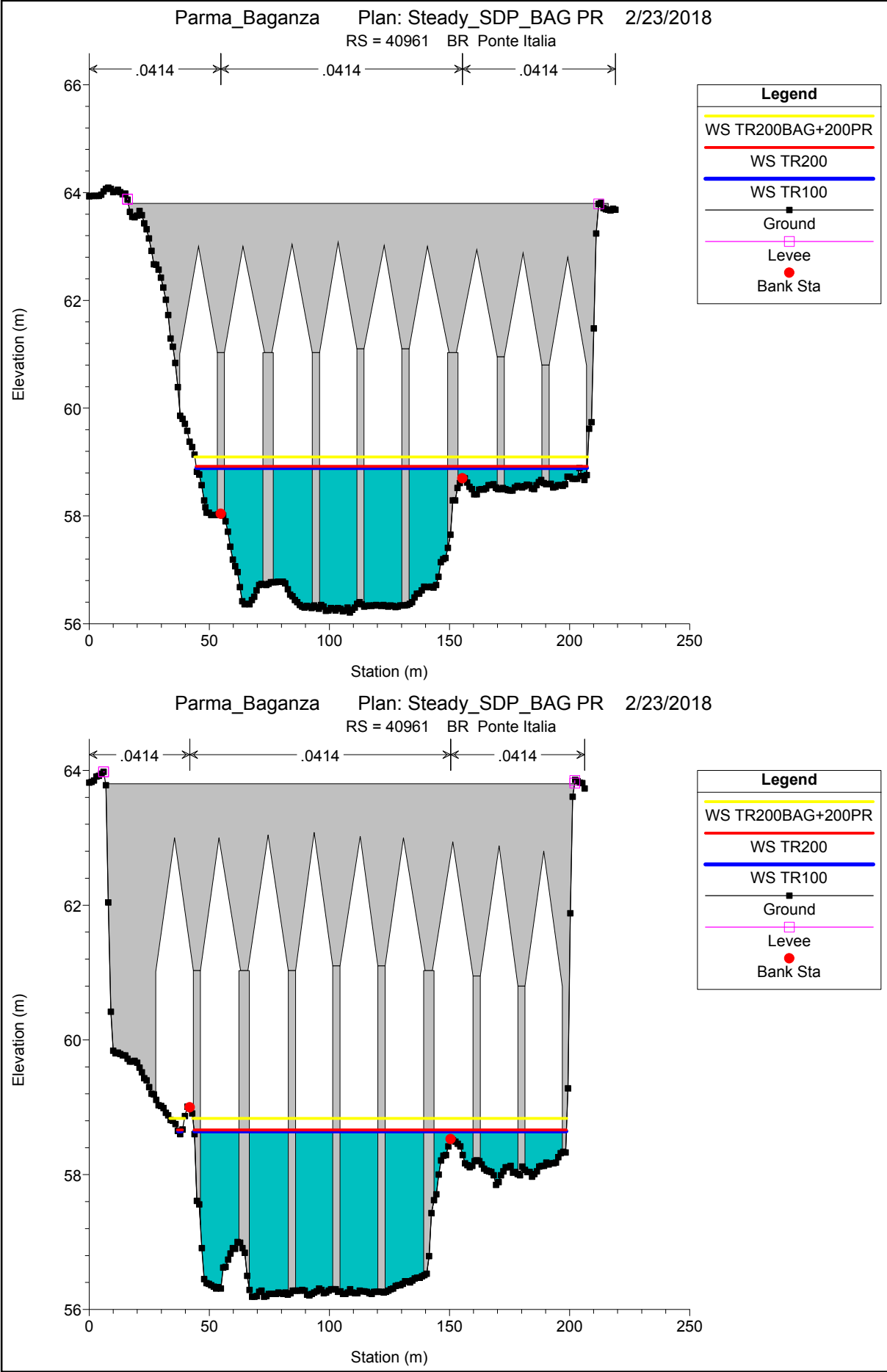
HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m <sup>3</sup> /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m <sup>2</sup> )	(m)	
Valle	5495		Bridge									
Valle	5475.597	TR100	795.00	19.87	33.39	24.02	33.41	0.000161	0.76	1427.48	268.64	0.07
Valle	5475.597	TR200	810.00	19.87	33.46	24.08	33.48	0.000161	0.77	1445.59	268.64	0.07
Valle	5475.597	TR200BAG+200PR	920.00	19.87	33.97	24.42	34.00	0.000160	0.79	1584.73	268.64	0.07
Valle	5226.847	TR100	795.00	19.75	33.16	26.82	33.33	0.001169	2.03	527.93	100.31	0.19
Valle	5226.847	TR200	810.00	19.75	33.23	26.95	33.39	0.001175	2.04	534.53	100.31	0.20
Valle	5226.847	TR200BAG+200PR	920.00	19.75	33.74	27.38	33.91	0.001189	2.12	585.79	100.31	0.20
Valle	5074.211	TR100	795.00	19.77	33.09	26.55	33.19	0.000758	1.66	641.89	113.87	0.16
Valle	5074.211	TR200	810.00	19.77	33.15	26.60	33.26	0.000762	1.67	649.36	113.87	0.16
Valle	5074.211	TR200BAG+200PR	920.00	19.77	33.66	26.97	33.78	0.000774	1.73	707.59	113.87	0.16
Valle	4870.517	TR100	795.00	19.79	33.07	26.20	33.10	0.000337	1.02	1037.56	194.13	0.10
Valle	4870.517	TR200	810.00	19.79	33.13	26.26	33.17	0.000337	1.03	1050.41	194.13	0.10
Valle	4870.517	TR200BAG+200PR	920.00	19.79	33.65	26.66	33.69	0.000331	1.06	1150.75	194.13	0.10
Valle	4666.209	TR100	795.00	20.34	33.00	26.85	33.04	0.000375	1.13	1020.64	204.26	0.11
Valle	4666.209	TR200	810.00	20.34	33.06	26.89	33.10	0.000375	1.14	1034.19	204.26	0.11
Valle	4666.209	TR200BAG+200PR	920.00	20.34	33.58	27.21	33.62	0.000362	1.15	1140.35	204.26	0.11
Valle	4447.481	TR100	795.00	20.24	32.90	25.66	32.96	0.000395	1.22	895.77	162.42	0.12
Valle	4447.481	TR200	810.00	20.24	32.97	25.71	33.03	0.000397	1.23	906.49	162.42	0.12
Valle	4447.481	TR200BAG+200PR	920.00	20.24	33.49	26.11	33.55	0.000399	1.27	990.86	162.42	0.12
Valle	4272.079	TR100	795.00	19.63	32.89	25.69	32.92	0.000208	0.92	1151.51	167.05	0.09
Valle	4272.079	TR200	810.00	19.63	32.96	25.72	32.98	0.000210	0.93	1162.50	167.05	0.09
Valle	4272.079	TR200BAG+200PR	920.00	19.63	33.47	25.91	33.51	0.000218	0.97	1249.12	167.05	0.09
Valle	4041.925	TR100	795.00	18.95	32.83	25.63	32.86	0.000264	1.06	1041.46	162.02	0.10
Valle	4041.925	TR200	810.00	18.95	32.89	25.67	32.93	0.000266	1.06	1052.04	162.02	0.10
Valle	4041.925	TR200BAG+200PR	920.00	18.95	33.41	25.92	33.45	0.000274	1.11	1135.71	162.02	0.10
Valle	3886.456	TR100	795.00	18.86	32.80	25.87	32.83	0.000207	0.88	1181.27	183.18	0.08
Valle	3886.456	TR200	810.00	18.86	32.87	25.90	32.89	0.000209	0.88	1193.20	183.18	0.08
Valle	3886.456	TR200BAG+200PR	920.00	18.86	33.38	26.12	33.41	0.000214	0.92	1287.76	183.18	0.09
Valle	3715.149	TR100	795.00	19.80	32.67	26.13	32.77	0.000728	1.64	668.32	128.37	0.16
Valle	3715.149	TR200	810.00	19.80	32.74	26.20	32.84	0.000731	1.65	676.57	128.37	0.16
Valle	3715.149	TR200BAG+200PR	920.00	19.80	33.25	26.62	33.35	0.000731	1.70	742.55	128.37	0.16
Valle	3393.206	TR100	795.00	19.65	32.32	26.44	32.48	0.001295	2.10	522.81	99.06	0.20
Valle	3393.206	TR200	810.00	19.65	32.38	26.50	32.54	0.001302	2.12	528.98	99.06	0.20
Valle	3393.206	TR200BAG+200PR	920.00	19.65	32.89	26.94	33.06	0.001308	2.19	579.60	99.06	0.20
Valle	3237.633	TR100	795.00	19.44	32.11	25.01	32.29	0.001172	1.95	480.22	89.25	0.19
Valle	3237.633	TR200	810.00	19.44	32.17	25.07	32.35	0.001186	1.97	485.50	89.25	0.19
Valle	3237.633	TR200BAG+200PR	920.00	19.44	32.66	25.49	32.86	0.001244	2.08	529.79	89.25	0.20
Valle	3101.790	TR100	795.00	19.21	32.05	25.60	32.15	0.000887	1.69	653.97	131.31	0.16
Valle	3101.790	TR200	810.00	19.21	32.11	25.60	32.21	0.000891	1.70	661.87	131.31	0.16
Valle	3101.790	TR200BAG+200PR	920.00	19.21	32.61	26.23	32.72	0.000880	1.74	728.59	131.31	0.16
Valle	2918.544	TR100	795.00	19.02	31.98	25.92	32.03	0.000512	1.25	886.92	182.48	0.12
Valle	2918.544	TR200	810.00	19.02	32.04	25.98	32.09	0.000513	1.26	897.96	182.56	0.12
Valle	2918.544	TR200BAG+200PR	920.00	19.02	32.55	26.39	32.61	0.000498	1.28	994.92	190.85	0.12
Valle	2668.802	TR100	795.00	18.53	31.87	24.73	31.93	0.000461	1.30	888.42	173.65	0.12
Valle	2668.802	TR200	810.00	18.53	31.93	24.79	31.99	0.000463	1.31	898.88	173.65	0.12
Valle	2668.802	TR200BAG+200PR	920.00	18.53	32.45	25.22	32.51	0.000455	1.34	988.45	173.65	0.12
Valle	2310.634	TR100	795.00	18.52	31.36	25.68	31.63	0.001931	2.52	378.65	58.49	0.25
Valle	2310.634	TR200	810.00	18.52	31.45	25.75	31.70	0.001809	2.45	421.77	79.92	0.24
Valle	2310.634	TR200BAG+200PR	920.00	18.52	31.94	26.21	32.21	0.001914	2.60	480.45	95.41	0.25
Valle	2114.658	TR100	795.00	18.16	31.29	24.83	31.40	0.000805	1.70	632.96	121.58	0.16
Valle	2114.658	TR200	810.00	18.16	31.36	24.91	31.47	0.000806	1.71	641.69	121.73	0.16
Valle	2114.658	TR200BAG+200PR	920.00	18.16	31.86	25.33	31.98	0.000813	1.76	703.20	122.94	0.17
Valle	2013.439	TR100	795.00	19.10	31.24	24.80	31.32	0.000688	1.49	702.55	136.14	0.15
Valle	2013.439	TR200	810.00	19.10	31.31	24.85	31.39	0.000688	1.49	712.35	136.58	0.15
Valle	2013.439	TR200BAG+200PR	920.00	19.10	31.81	25.26	31.90	0.000704	1.56	784.18	146.89	0.15
Valle	2000		Bridge									
Valle	1985.120	TR100	795.00	19.10	31.15	24.79	31.23	0.000732	1.48	690.57	135.59	0.15
Valle	1985.120	TR200	810.00	19.10	31.22	24.85	31.30	0.000732	1.49	699.97	136.02	0.15
Valle	1985.120	TR200BAG+200PR	920.00	19.10	31.70	25.27	31.79	0.000757	1.56	767.73	146.64	0.16
Valle	1887.897	TR100	795.00	18.85	31.09	24.85	31.17	0.000574	1.49	697.73	109.33	0.14
Valle	1887.897	TR200	810.00	18.85	31.16	24.89	31.24	0.000578	1.50	705.22	109.45	0.14
Valle	1887.897	TR200BAG+200PR	920.00	18.85	31.63	25.16	31.73	0.000610	1.58	757.46	110.49	0.15
Valle	1720.414	TR100	795.00	18.66	30.73	25.34	31.01	0.002016	2.57	386.79	64.60	0.25
Valle	1720.414	TR200	810.00	18.66	30.79	25.45	31.08	0.002034	2.59	390.94	64.69	0.25
Valle	1720.414	TR200BAG+200PR	920.00	18.66	31.24	25.98	31.55	0.002173	2.75	419.75	65.53	0.26
Valle	1573.032	TR100	795.00	16.79	30.59	23.50	30.79	0.001169	2.26	482.57	77.92	0.21
Valle	1573.032	TR200	810.00	16.79	30.65	23.56	30.85	0.001183	2.28	487.49	78.05	0.21

HEC-RAS Plan: SDP\_PR River: Parma Reach: Valle (Continued)

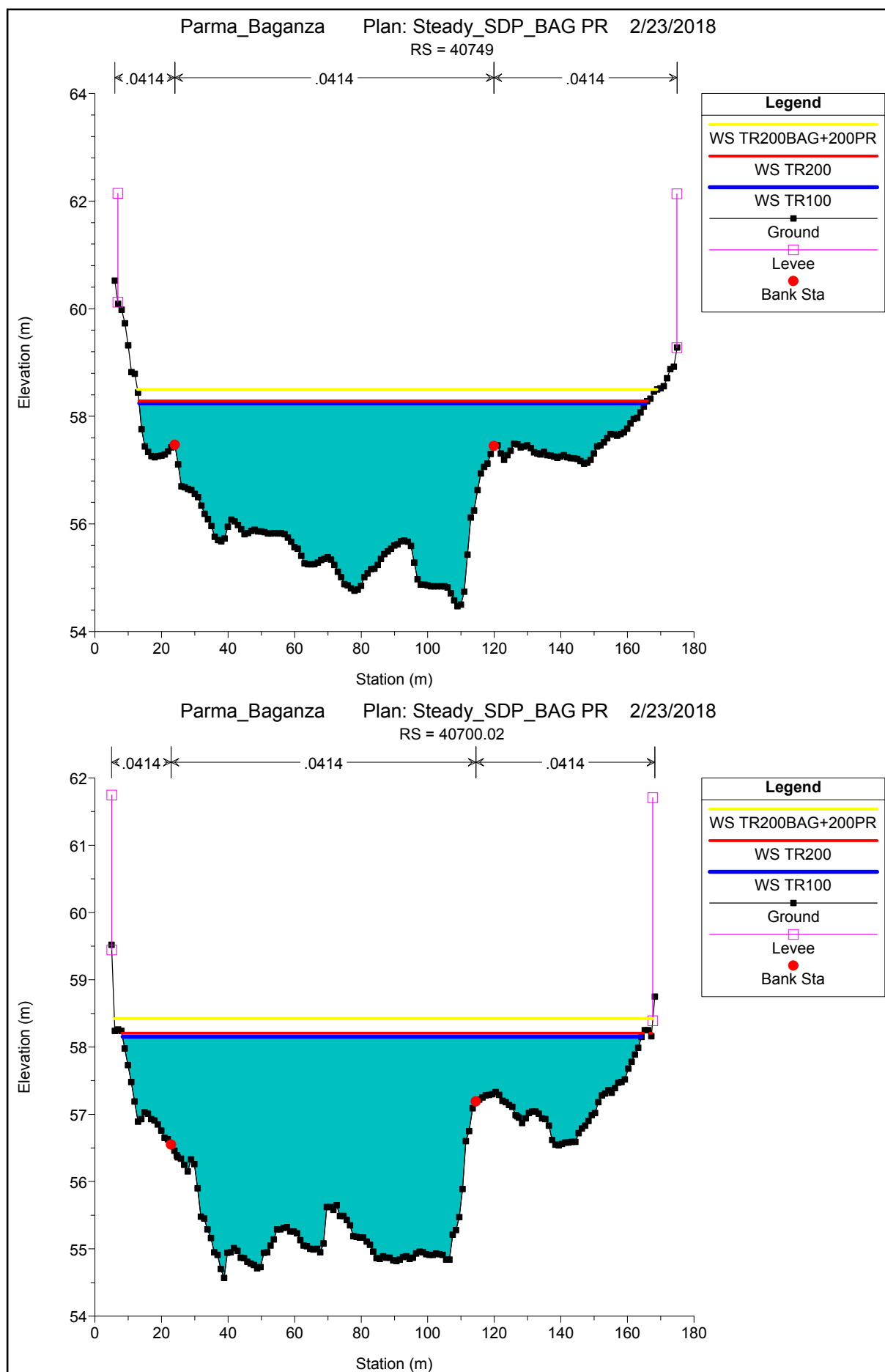
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	1573.032	TR200BAG+200PR	920.00	16.79	31.10	23.98	31.31	0.001245	2.39	559.37	99.54	0.21
Valle	1438.146	TR100	795.00	18.16	30.40	24.66	30.60	0.001631	2.17	450.90	85.68	0.22
Valle	1438.146	TR200	810.00	18.16	30.46	24.72	30.67	0.001642	2.19	456.19	85.87	0.22
Valle	1438.146	TR200BAG+200PR	920.00	18.16	30.89	25.14	31.12	0.001724	2.31	493.61	87.38	0.23
Valle	1260.633	TR100	795.00	18.05	30.12	24.54	30.32	0.001540	2.22	459.02	84.75	0.22
Valle	1260.633	TR200	810.00	18.05	30.18	24.60	30.38	0.001553	2.23	464.05	84.87	0.22
Valle	1260.633	TR200BAG+200PR	920.00	18.05	30.59	25.05	30.82	0.001645	2.36	499.52	85.89	0.23
Valle	1053.629	TR100	795.00	18.45	29.73	24.19	29.98	0.001742	2.31	400.19	73.22	0.24
Valle	1053.629	TR200	810.00	18.45	29.79	24.24	30.04	0.001765	2.33	404.14	73.29	0.24
Valle	1053.629	TR200BAG+200PR	920.00	18.45	30.16	24.60	30.45	0.001928	2.50	431.82	73.85	0.25
Valle	828.280	TR100	795.00	17.44	29.04	24.86	29.44	0.003470	3.18	327.53	68.72	0.32
Valle	828.280	TR200	810.00	17.44	29.08	24.86	29.49	0.003518	3.21	330.57	68.76	0.32
Valle	828.280	TR200BAG+200PR	920.00	17.44	29.38	25.76	29.85	0.003874	3.44	351.61	69.21	0.34
Valle	574.887	TR100	795.00	17.46	28.54	24.43	28.75	0.002193	2.42	519.72	205.81	0.26
Valle	574.887	TR200	810.00	17.46	28.59	24.50	28.80	0.002173	2.42	530.66	205.88	0.26
Valle	574.887	TR200BAG+200PR	920.00	17.46	28.95	24.97	29.16	0.002051	2.41	605.91	206.39	0.25
Valle	396.175	TR100	795.00	17.82	27.99	24.32	28.31	0.003111	2.76	428.26	195.68	0.31
Valle	396.175	TR200	810.00	17.82	28.06	24.39	28.37	0.003048	2.74	440.99	195.93	0.31
Valle	396.175	TR200BAG+200PR	920.00	17.82	28.49	24.81	28.76	0.002675	2.66	535.03	204.36	0.29
Valle	156.420	TR100	795.00	17.50	26.48	24.09	27.19	0.007837	3.78	228.09	54.59	0.48
Valle	156.420	TR200	810.00	17.50	26.55	24.16	27.26	0.007826	3.80	231.81	59.99	0.48
Valle	156.420	TR200BAG+200PR	920.00	17.50	27.04	24.59	27.76	0.007469	3.90	294.11	150.84	0.47
Valle	0.500	TR100	795.00	17.38	24.00	23.29	25.25	0.022437	4.96	162.67	41.67	0.77
Valle	0.500	TR200	810.00	17.38	24.00	23.35	25.29	0.023292	5.06	162.67	41.67	0.78
Valle	0.500	TR200BAG+200PR	920.00	17.38	24.00	23.71	25.67	0.030047	5.74	162.67	41.67	0.89





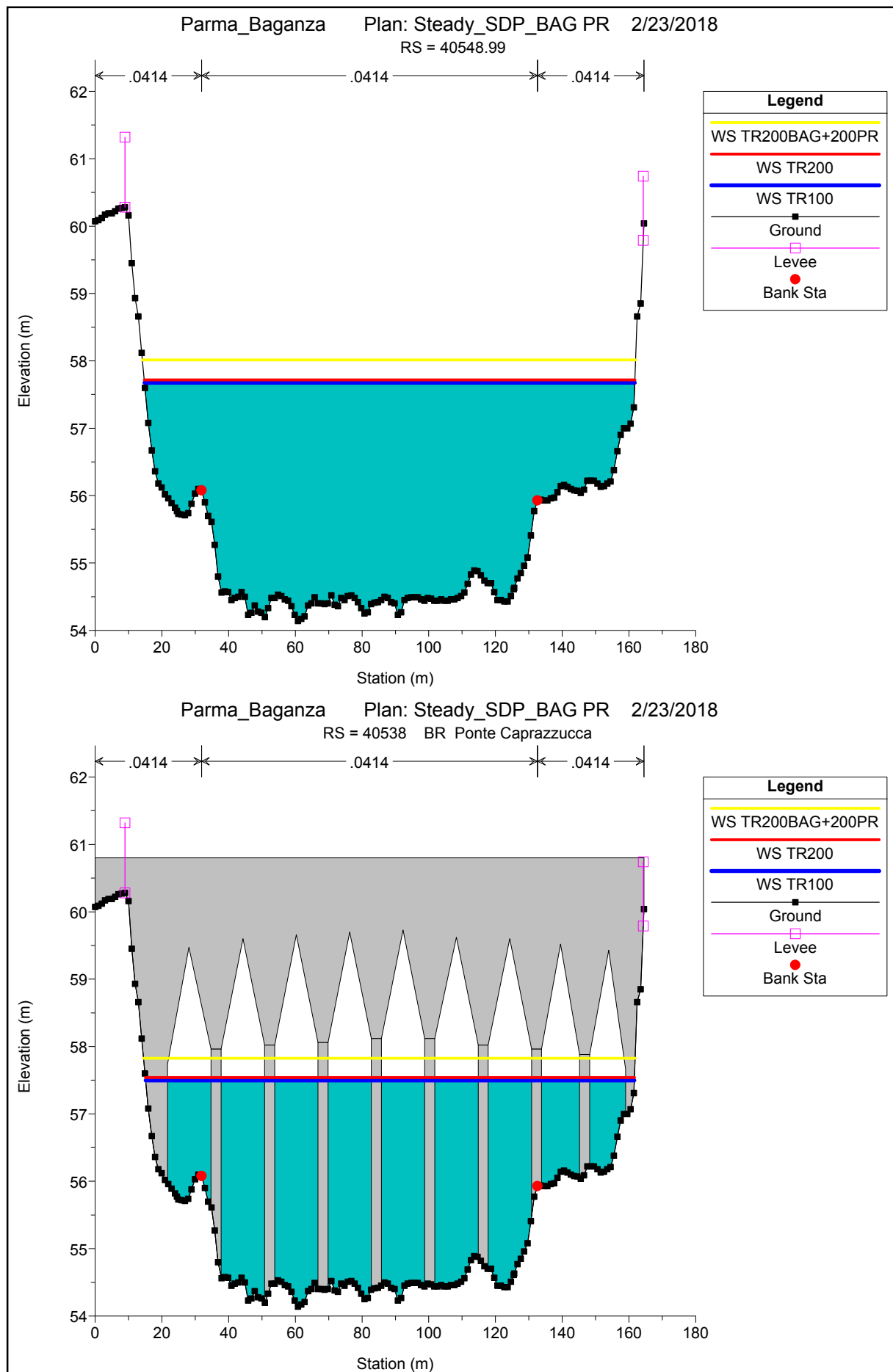


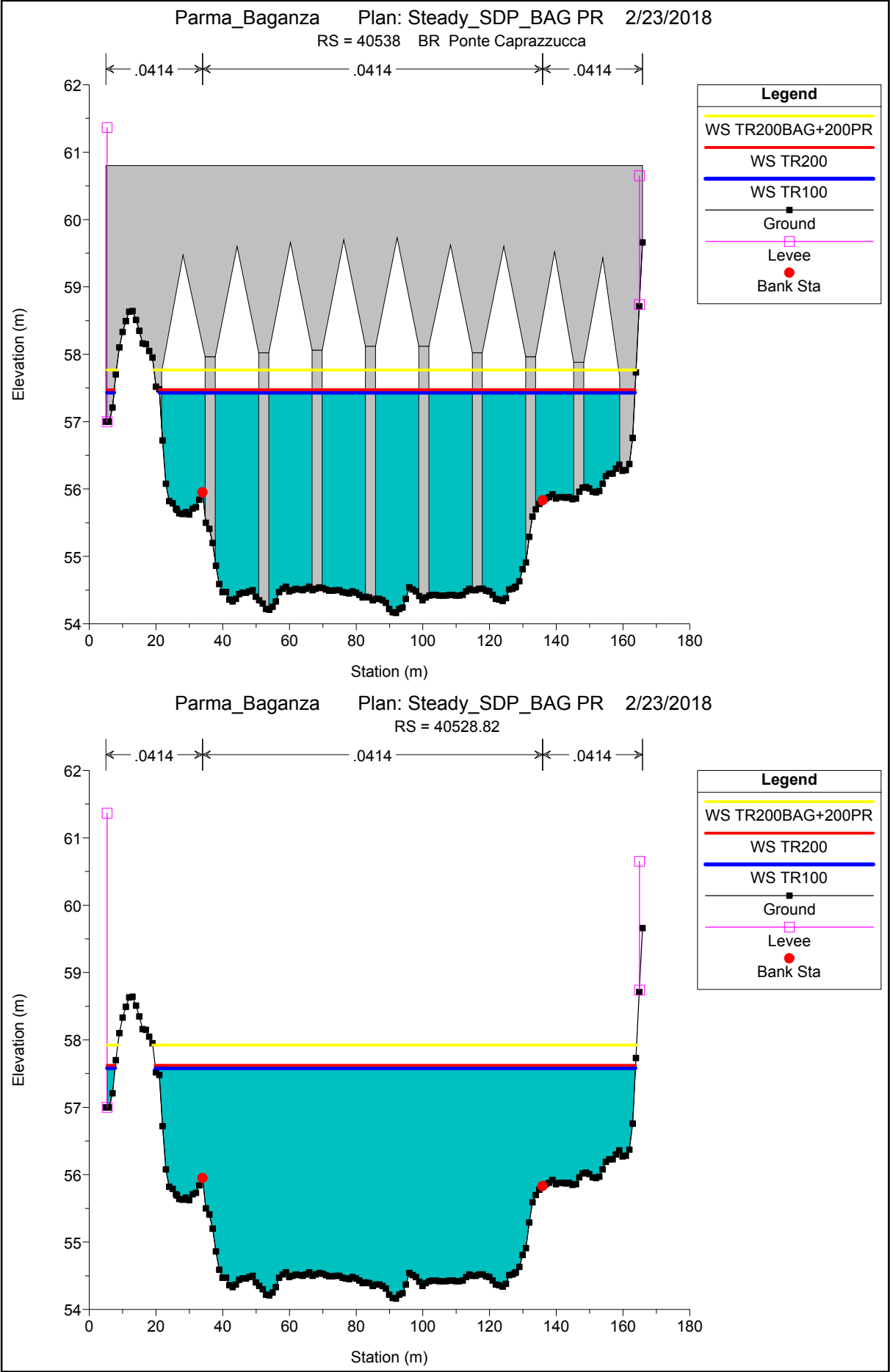












Parma\_Baganza

Plan: Steady\_SDP\_BAG PR

2/23/2018

RS = 40528.82

0.0414

0.0414

0.0414

Elevation (m)

62

61

60

59

58

57

56

55

54

0

20

40

60

80

100

120

140

160

180

Legend

WS TR200BAG+200PR

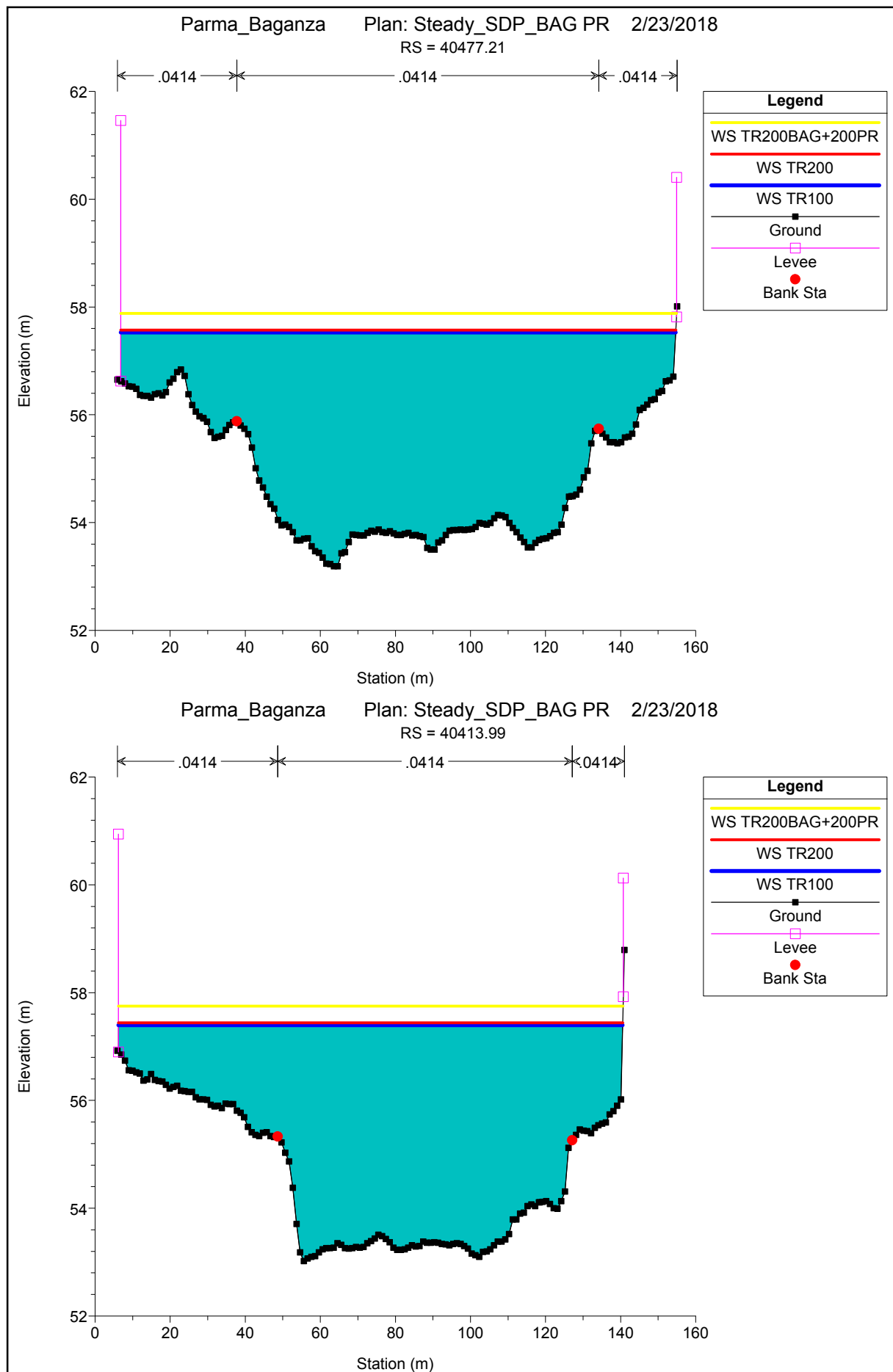
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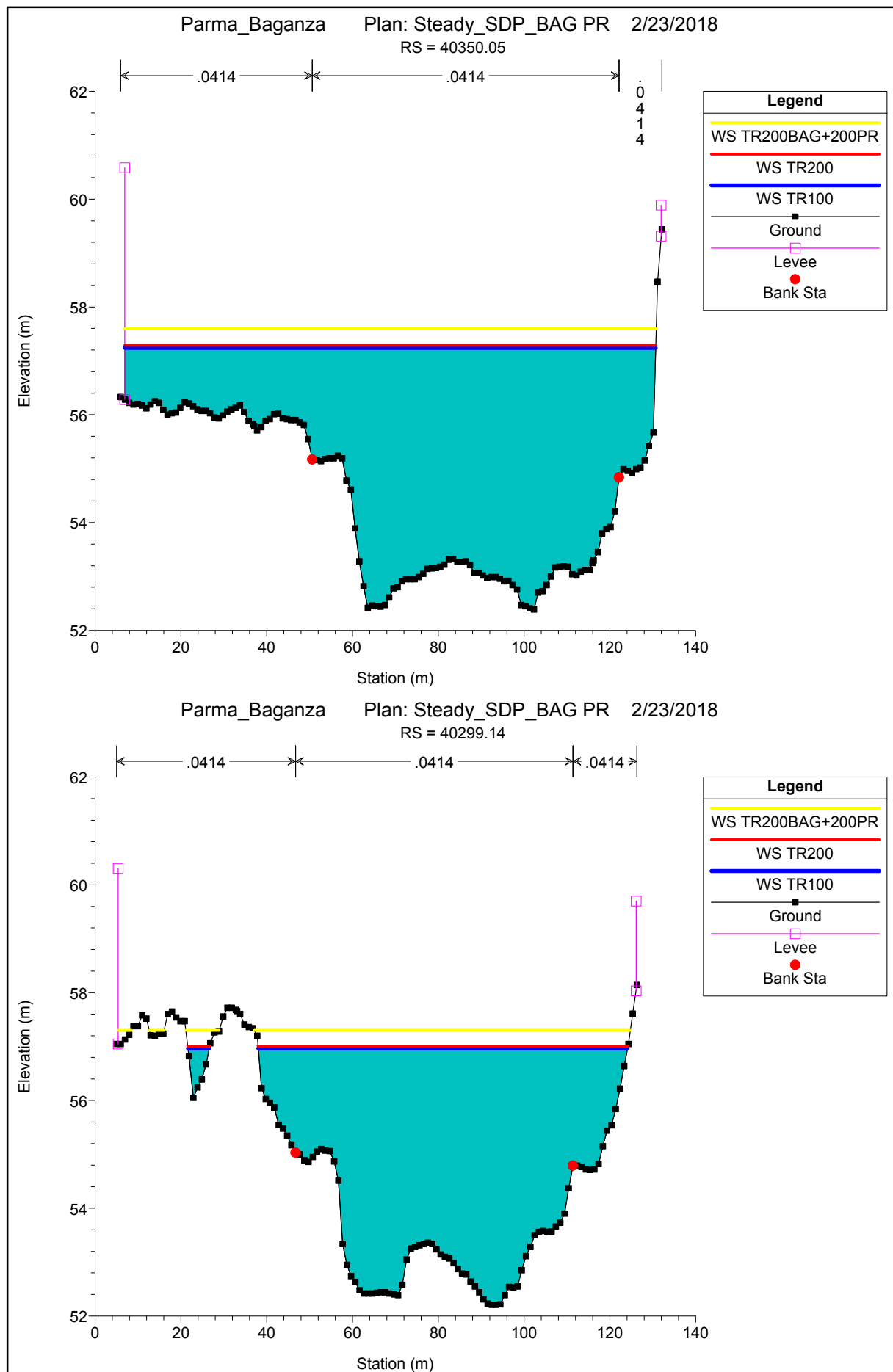
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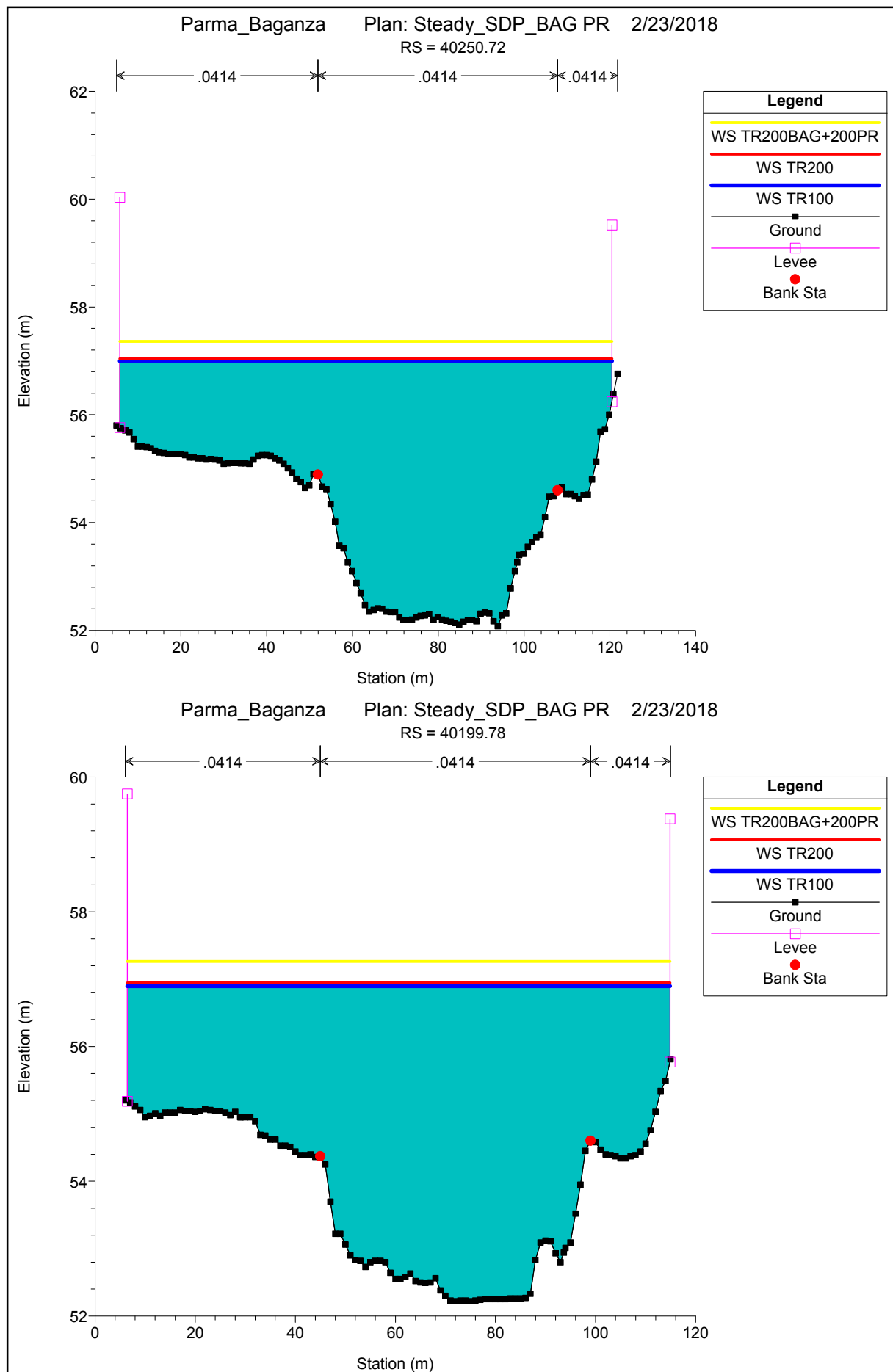
Ground

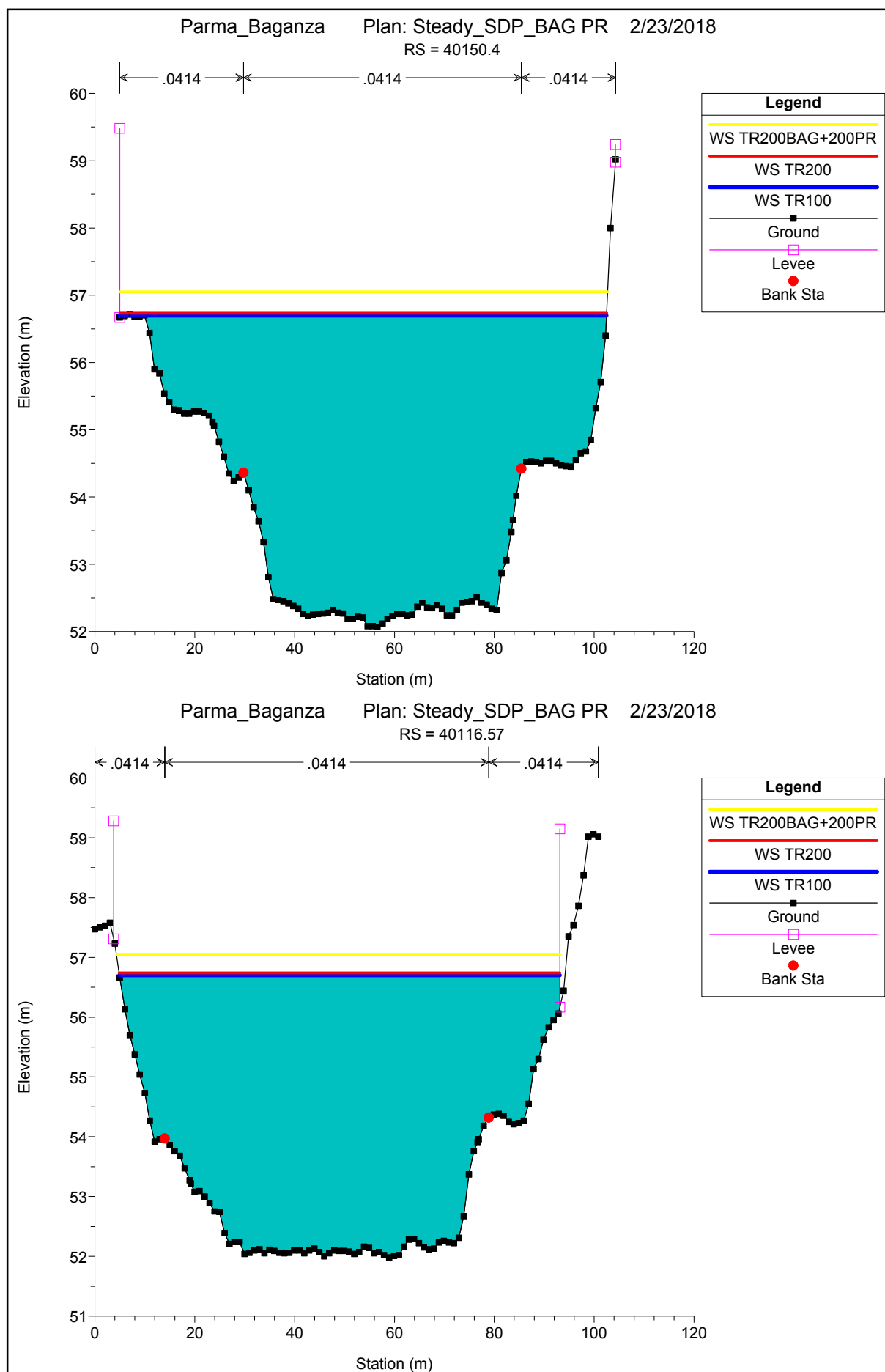
Levee

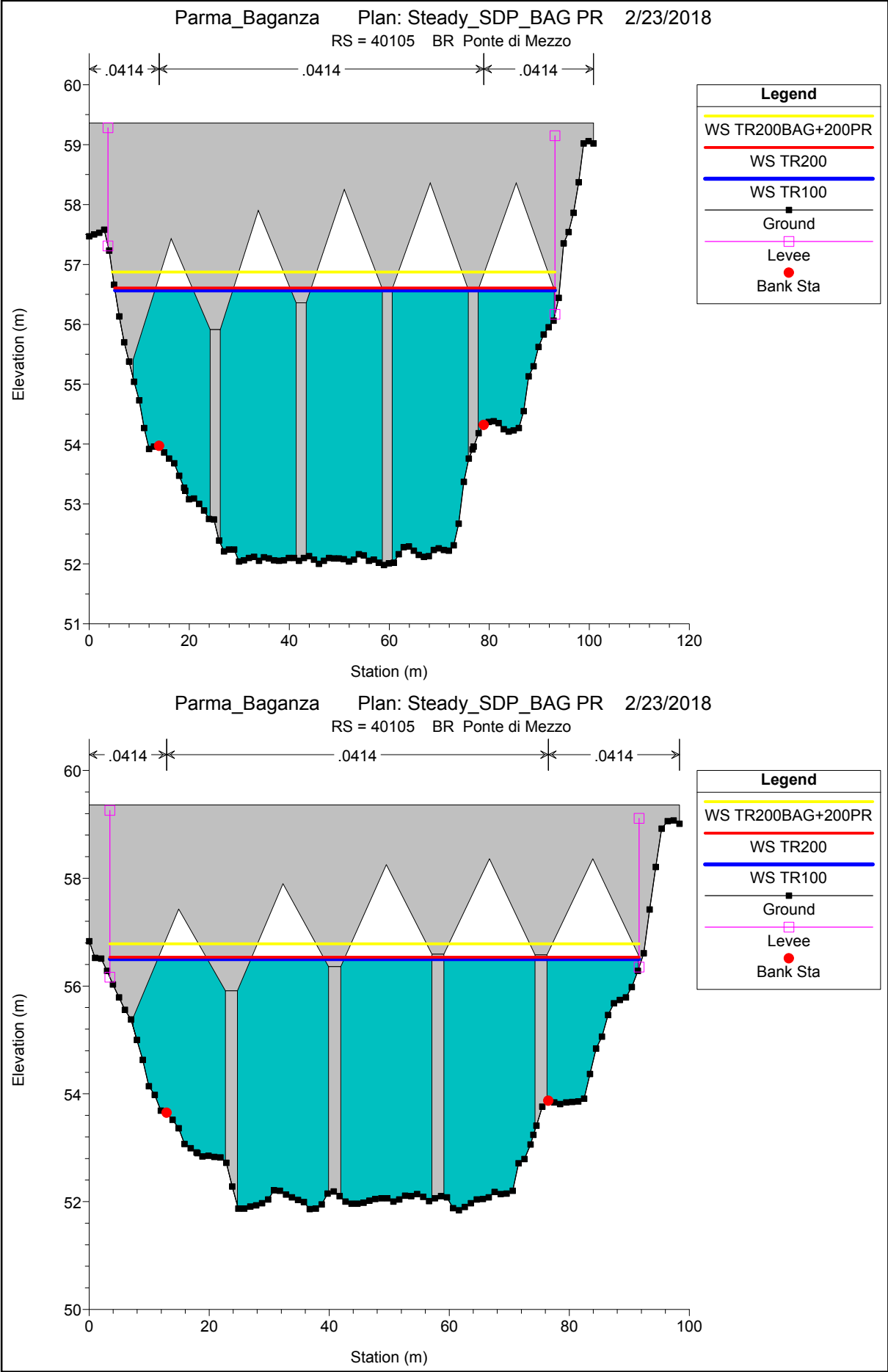
Bank Sta



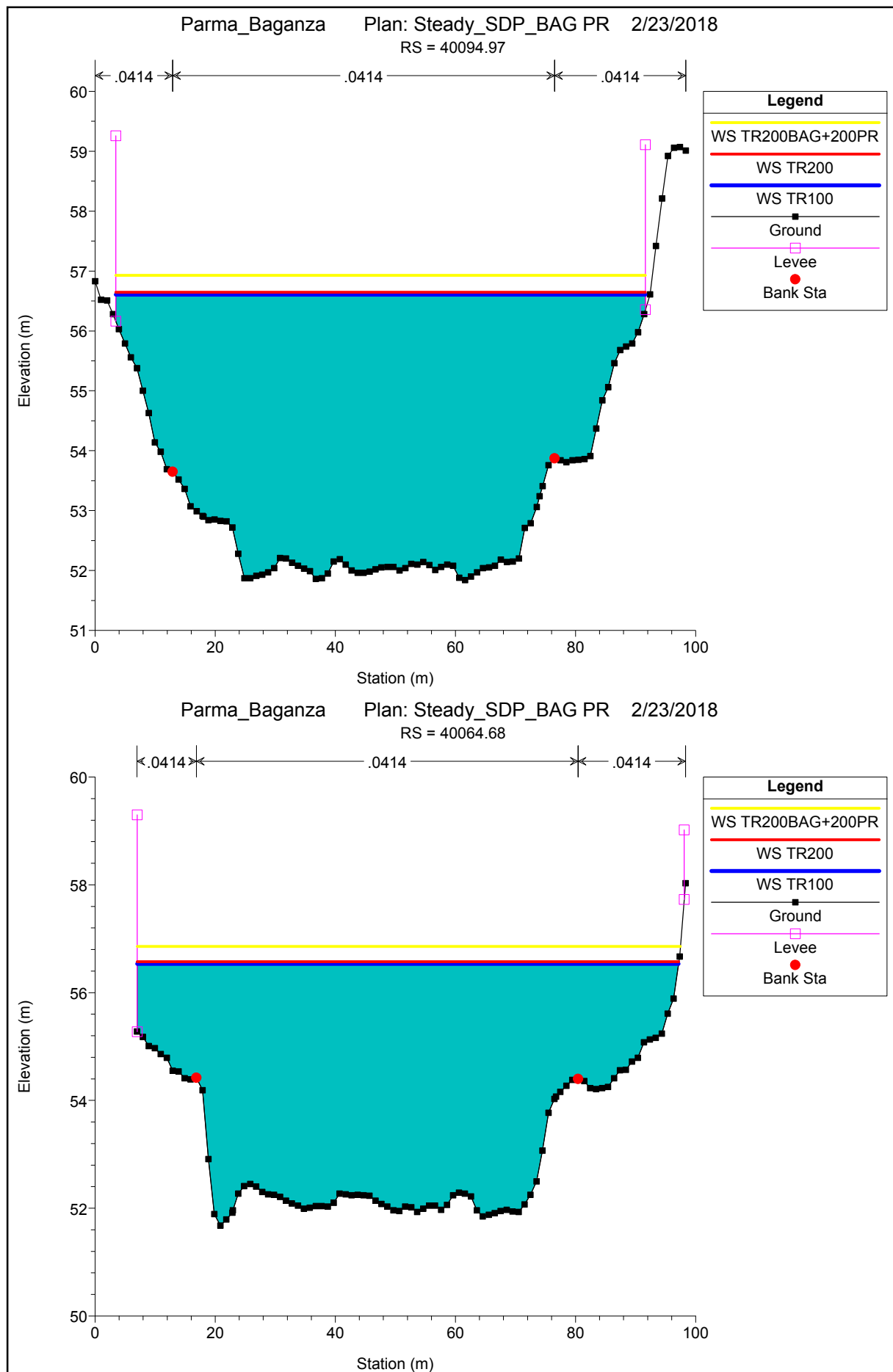


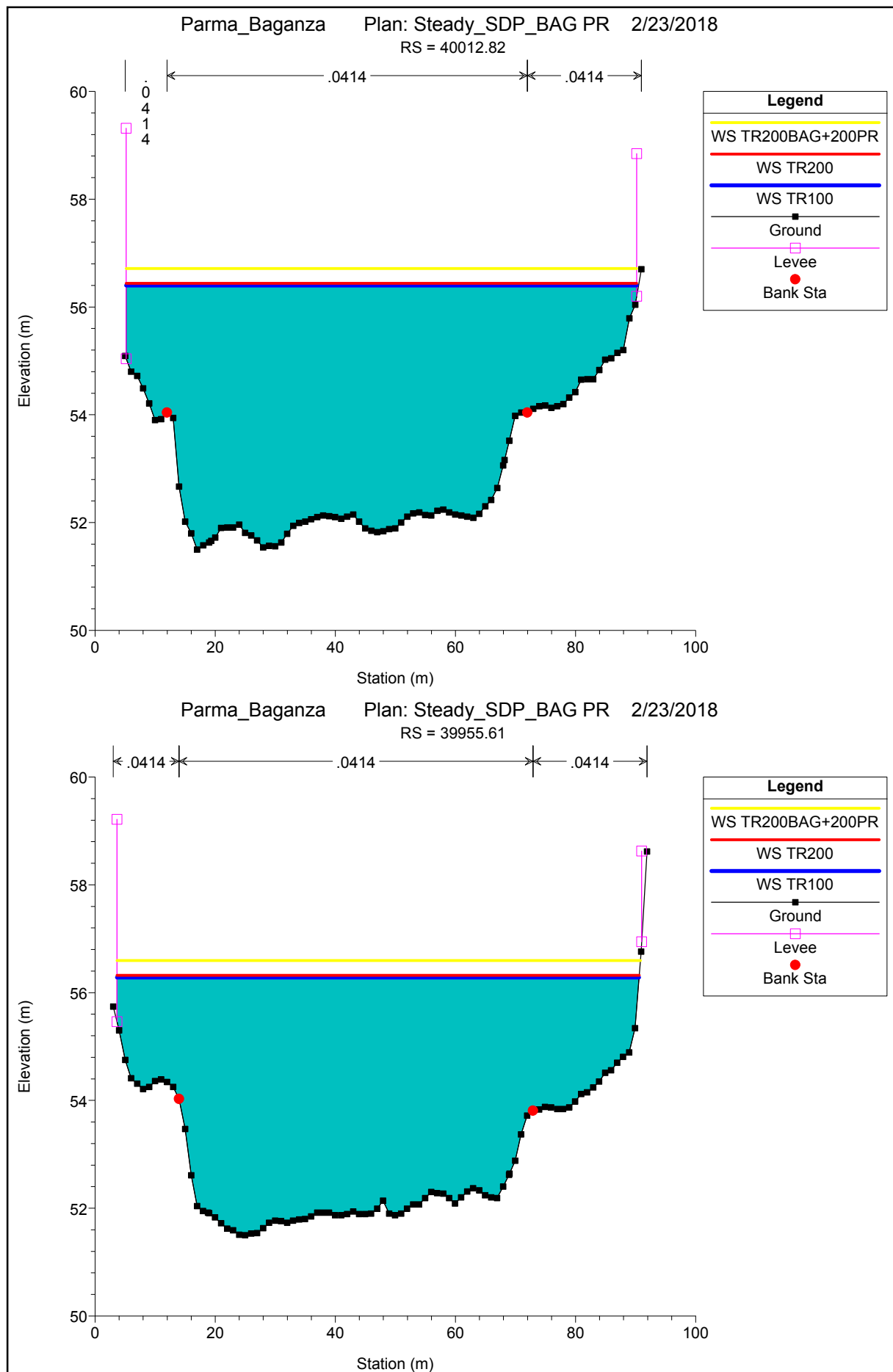


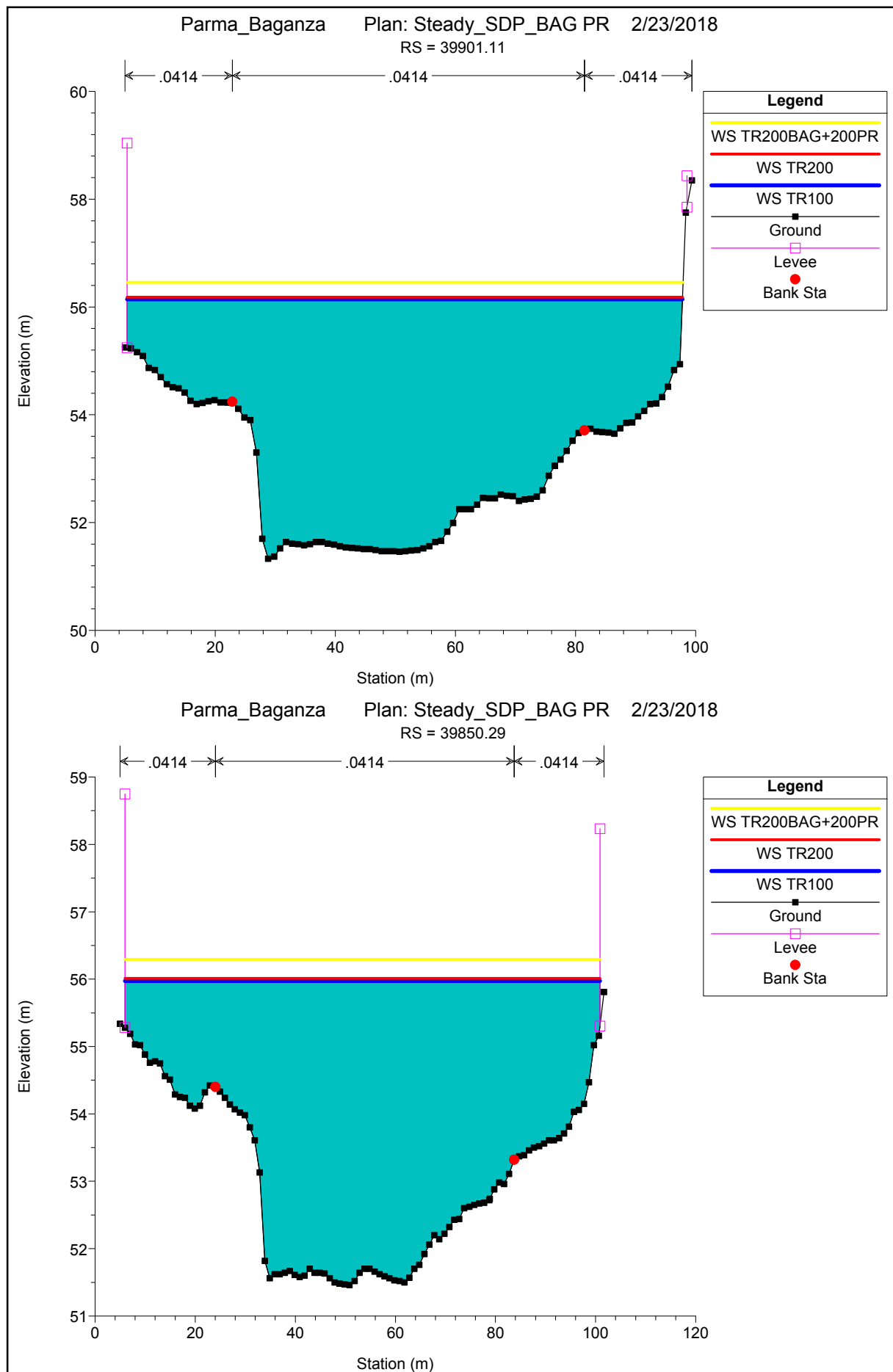


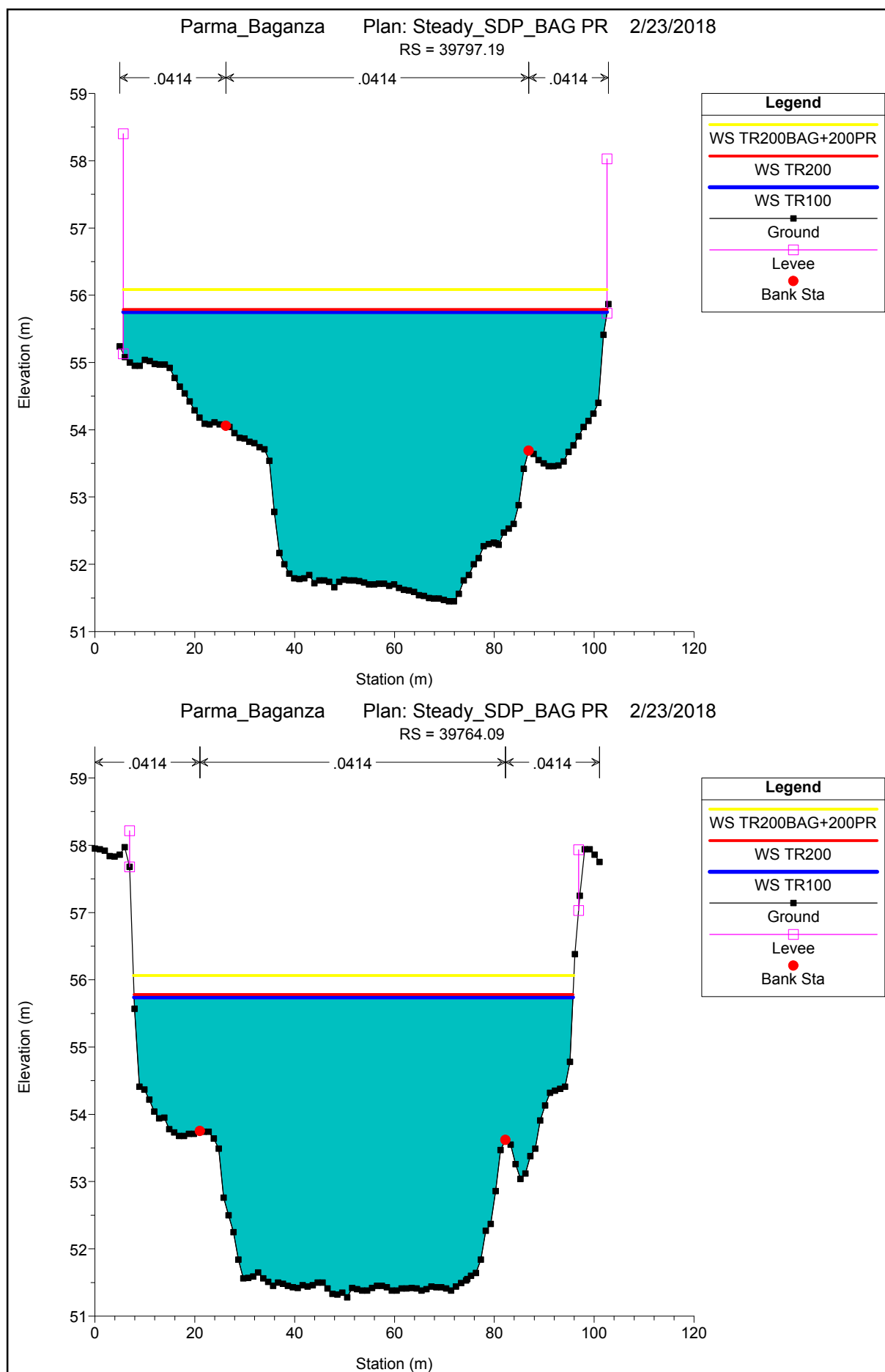




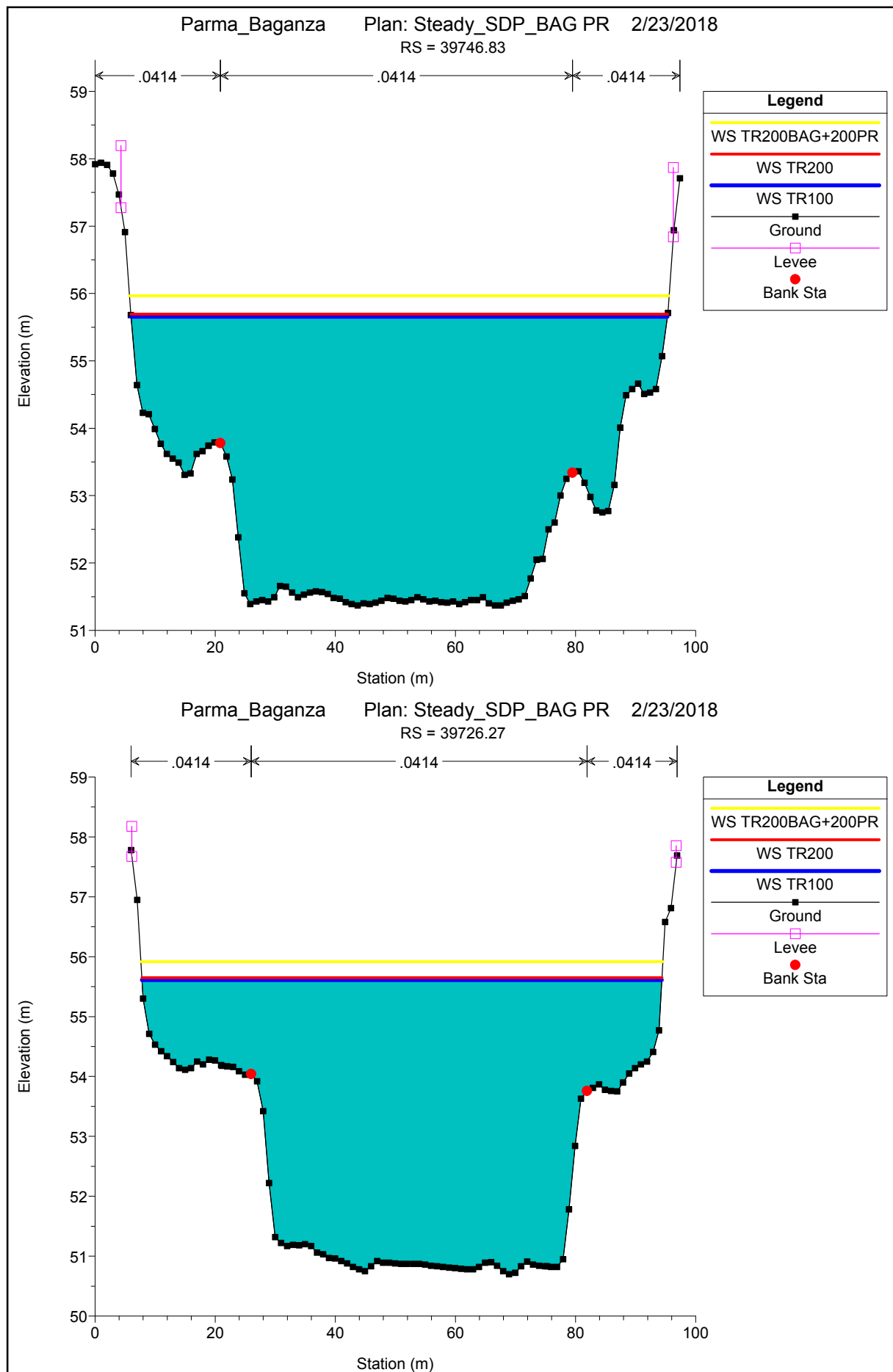


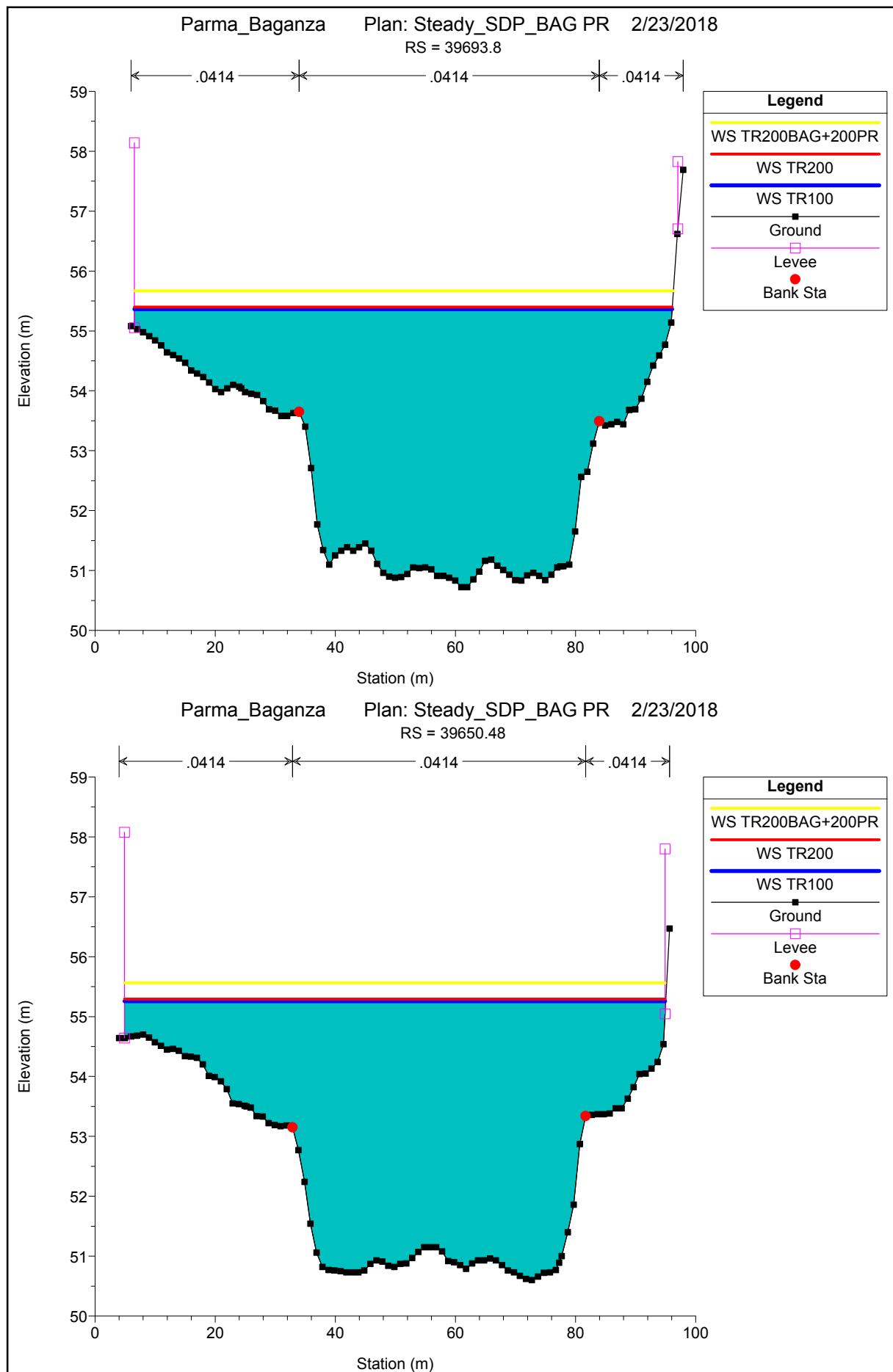


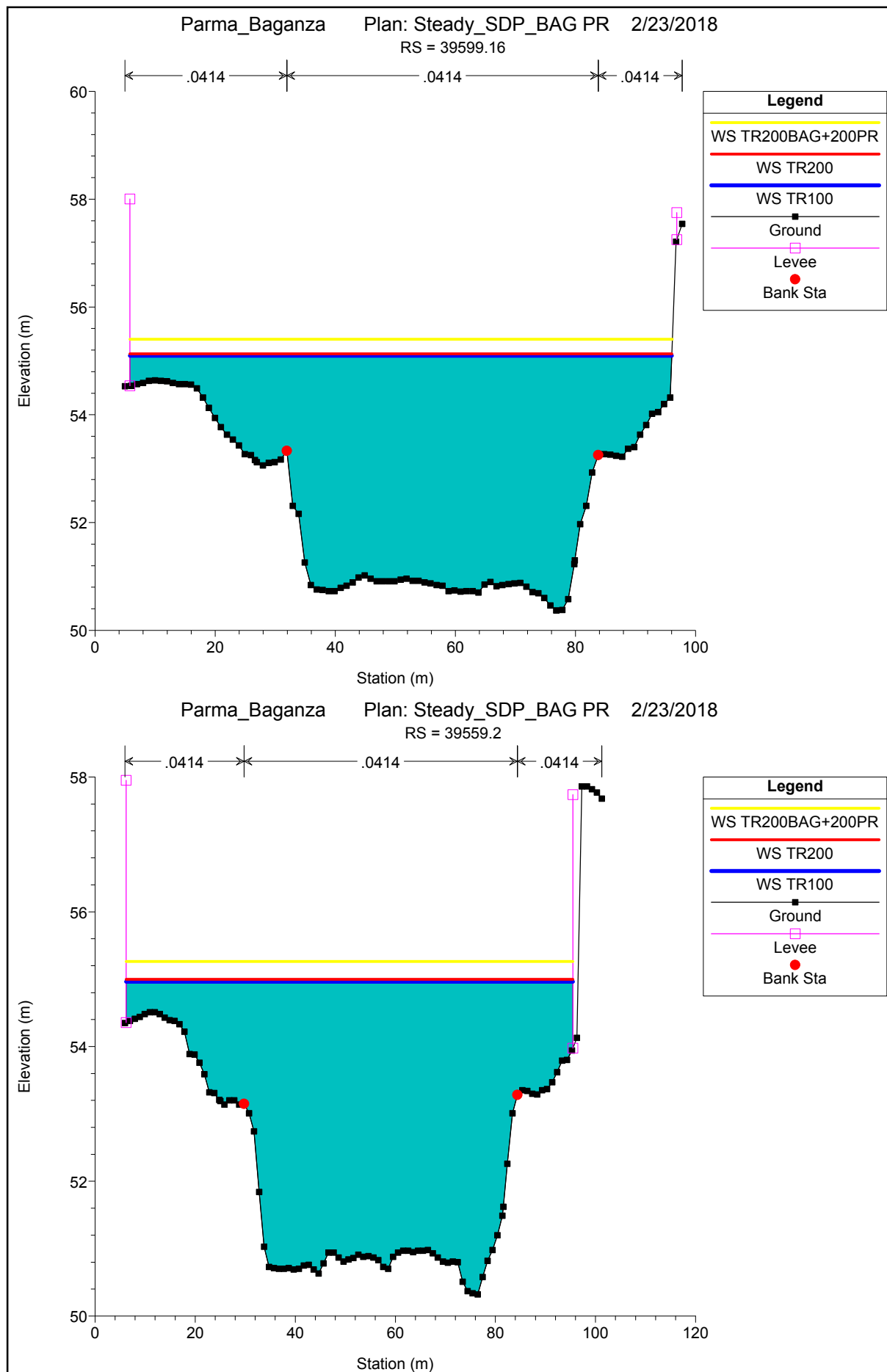






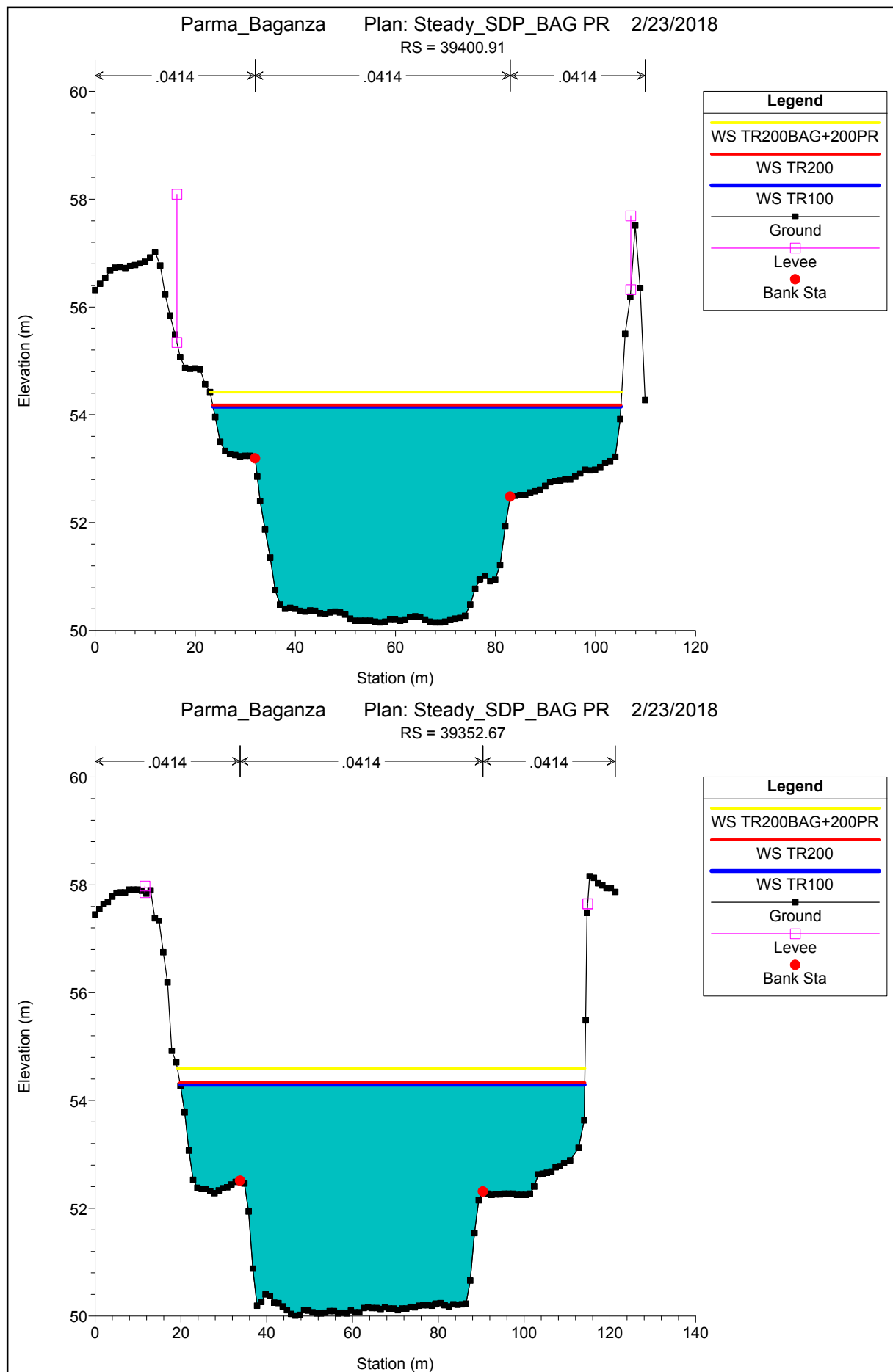


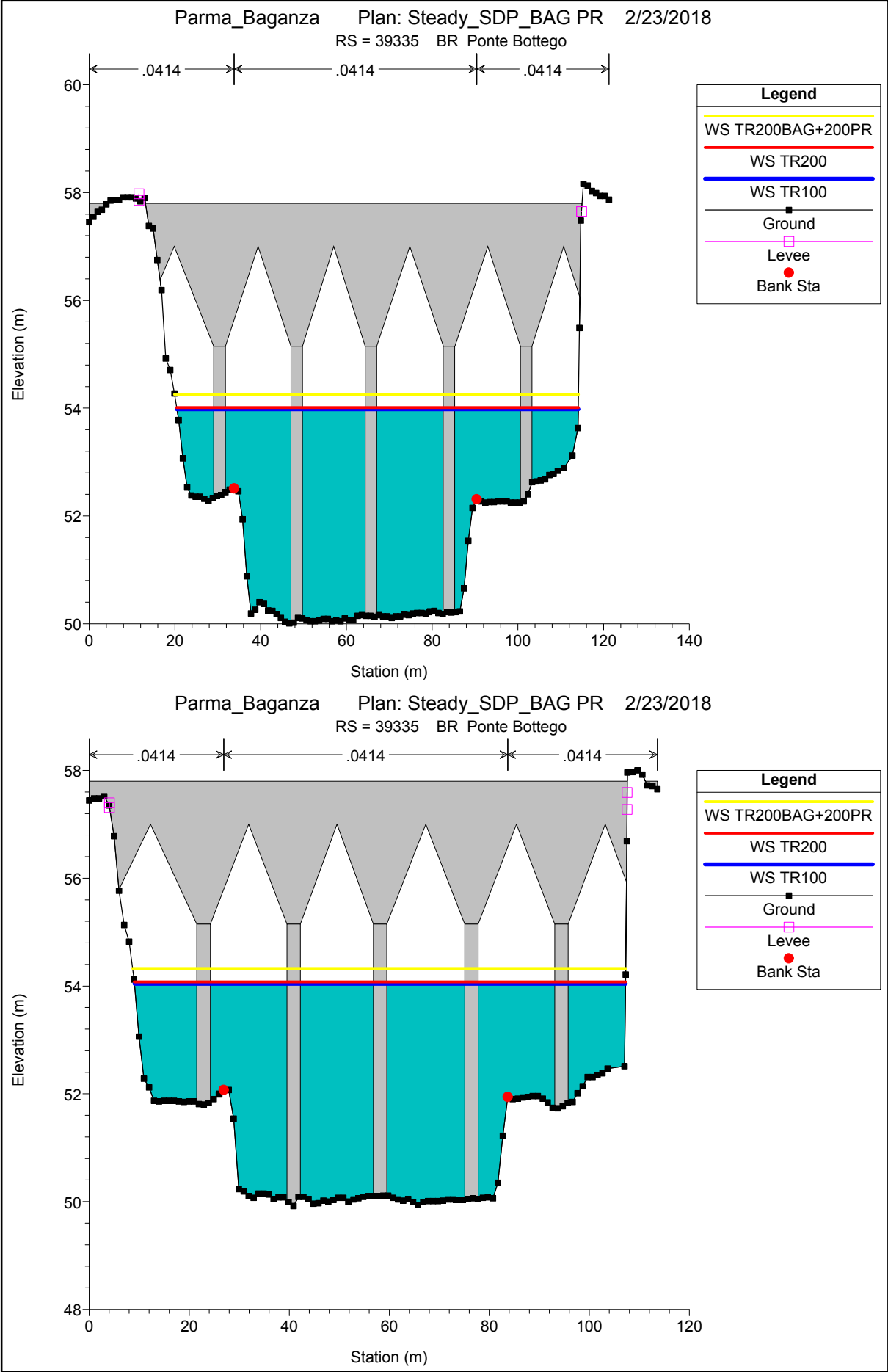


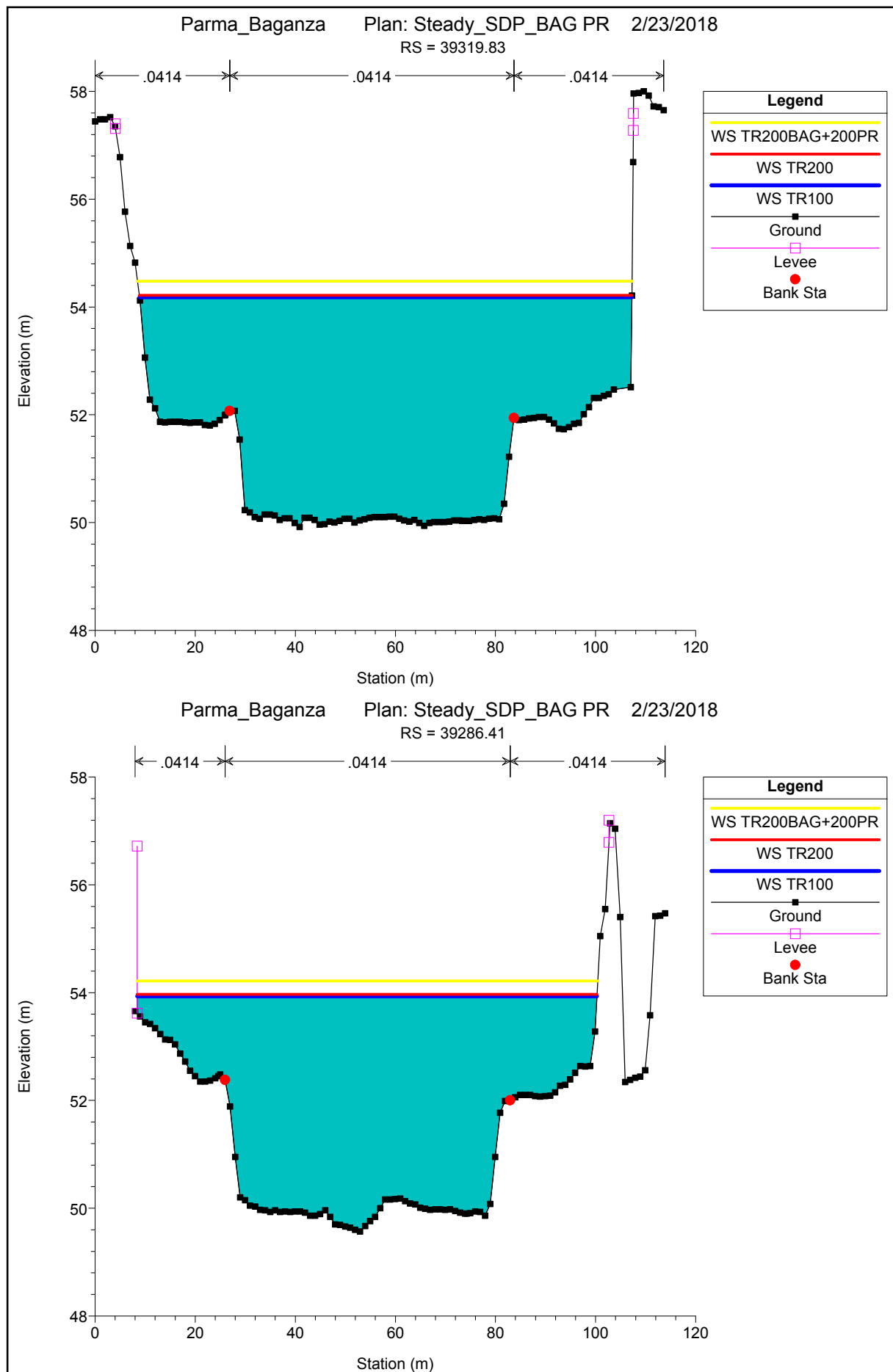


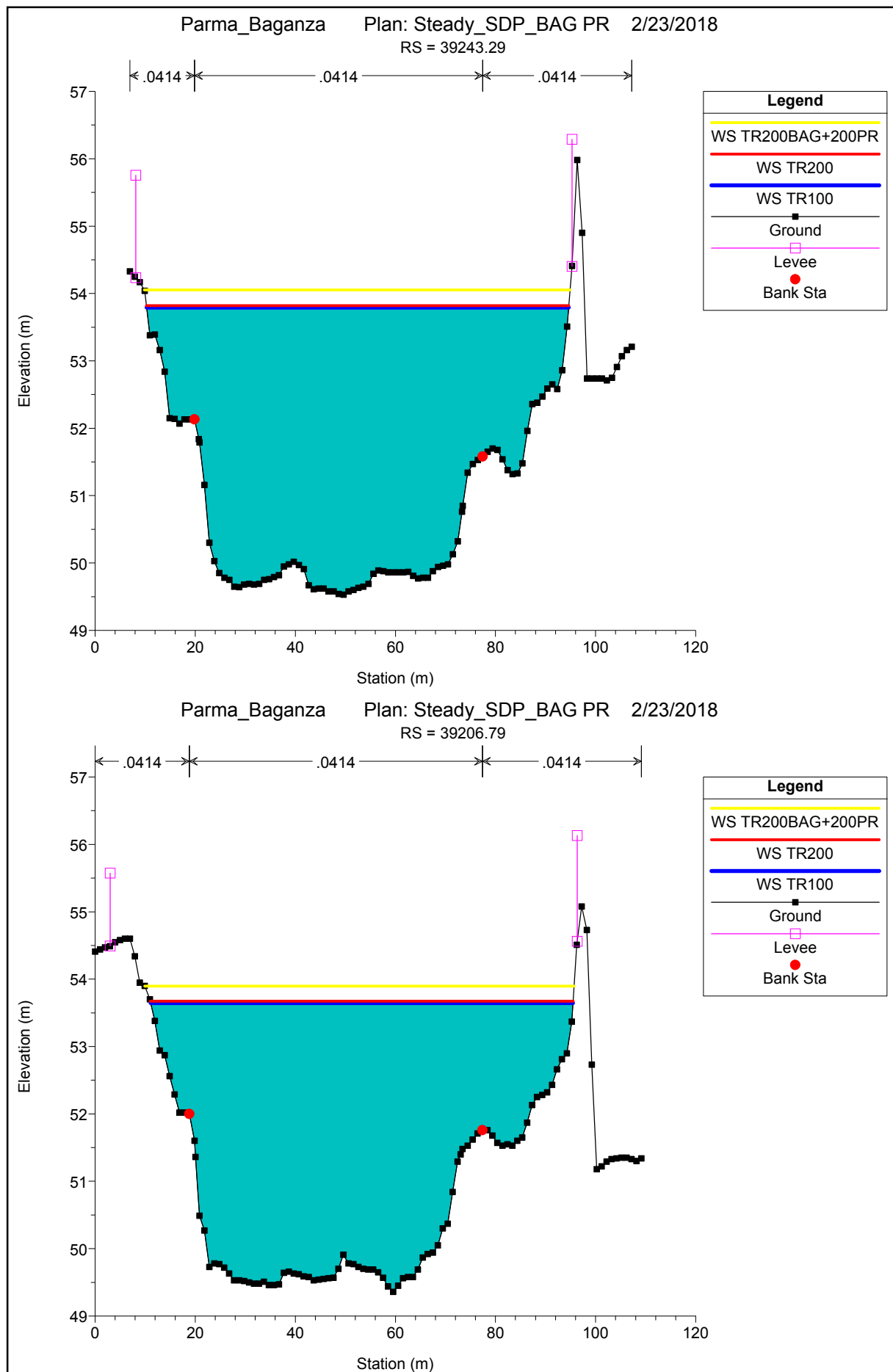


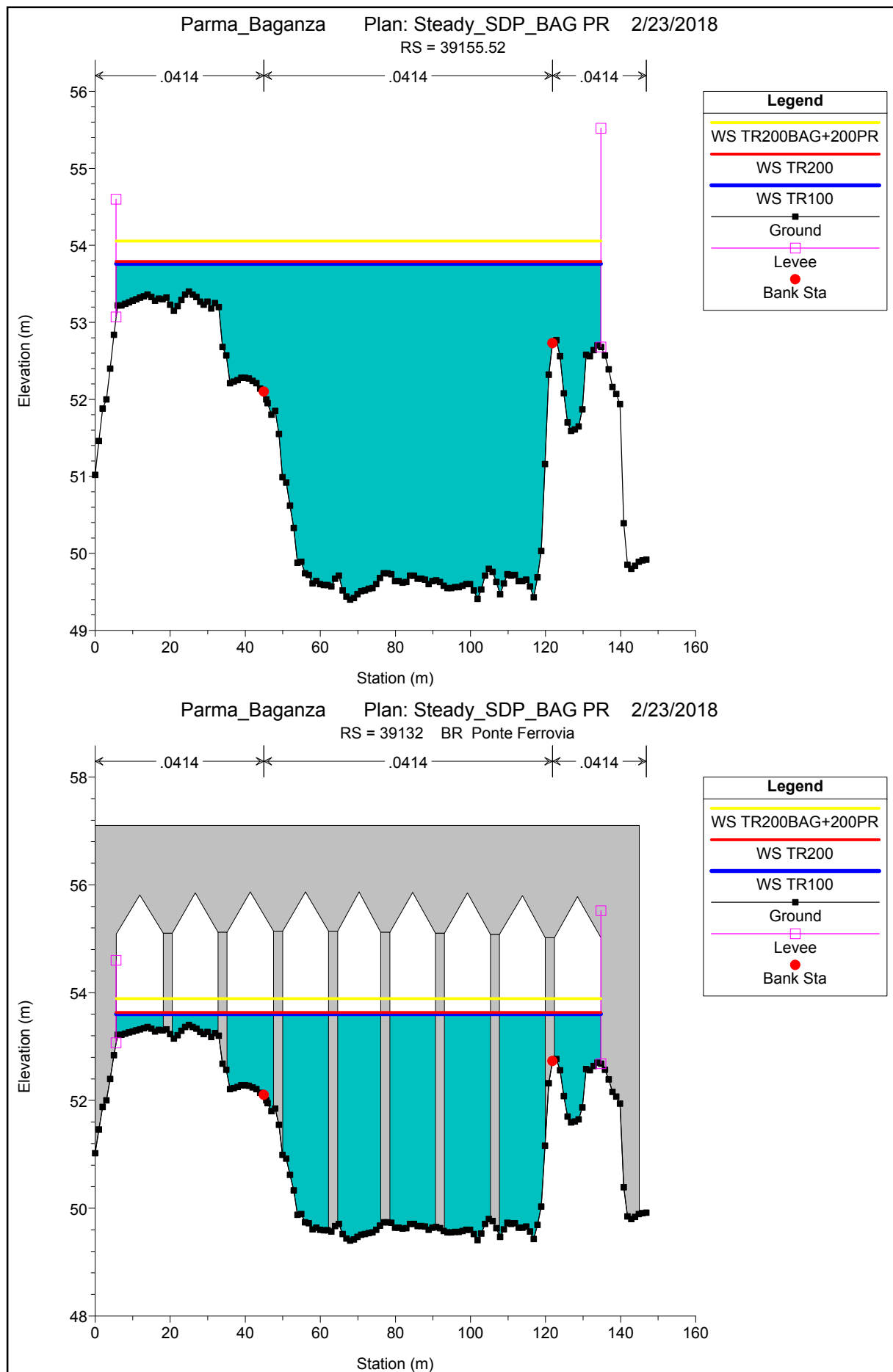


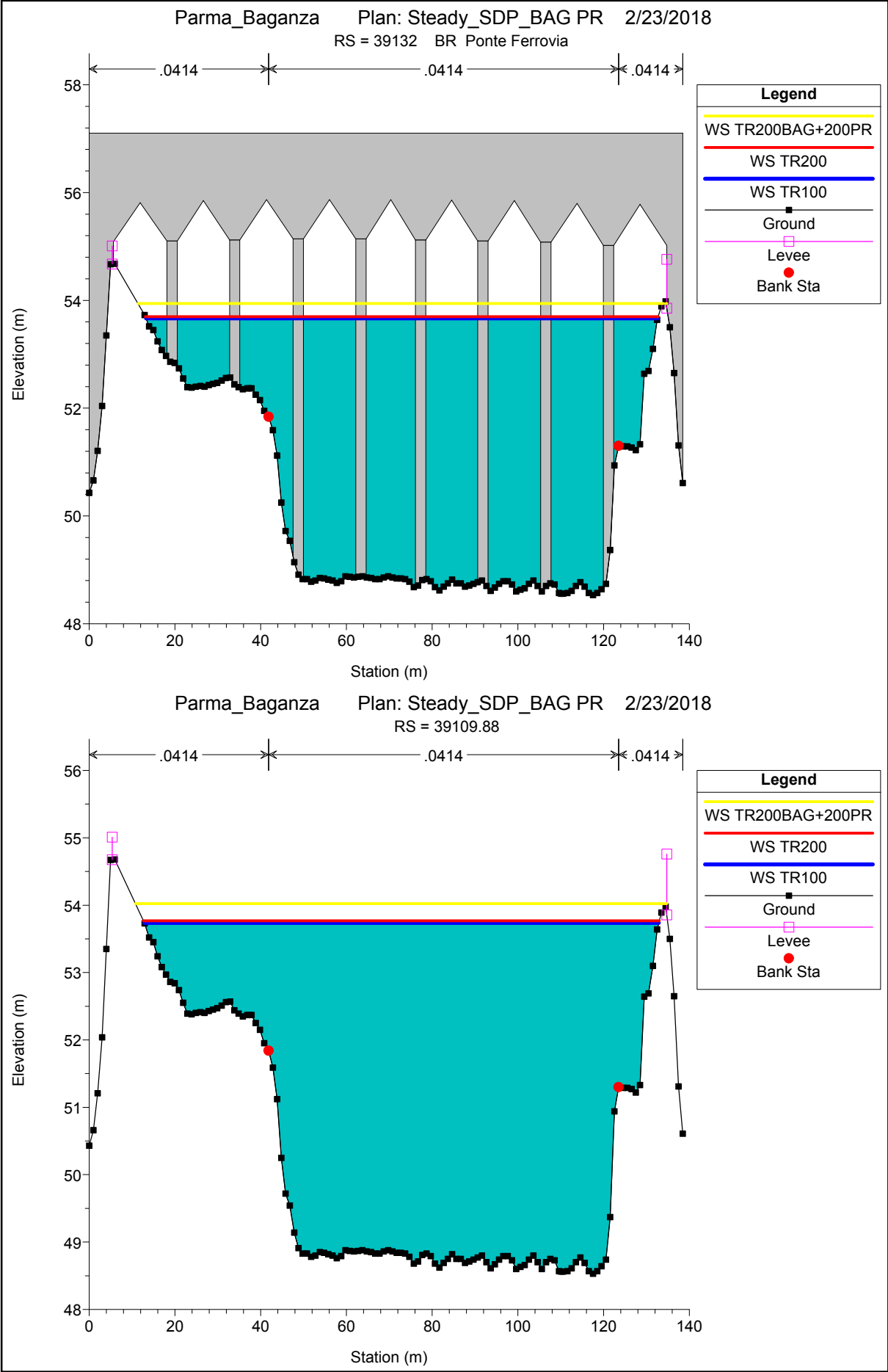


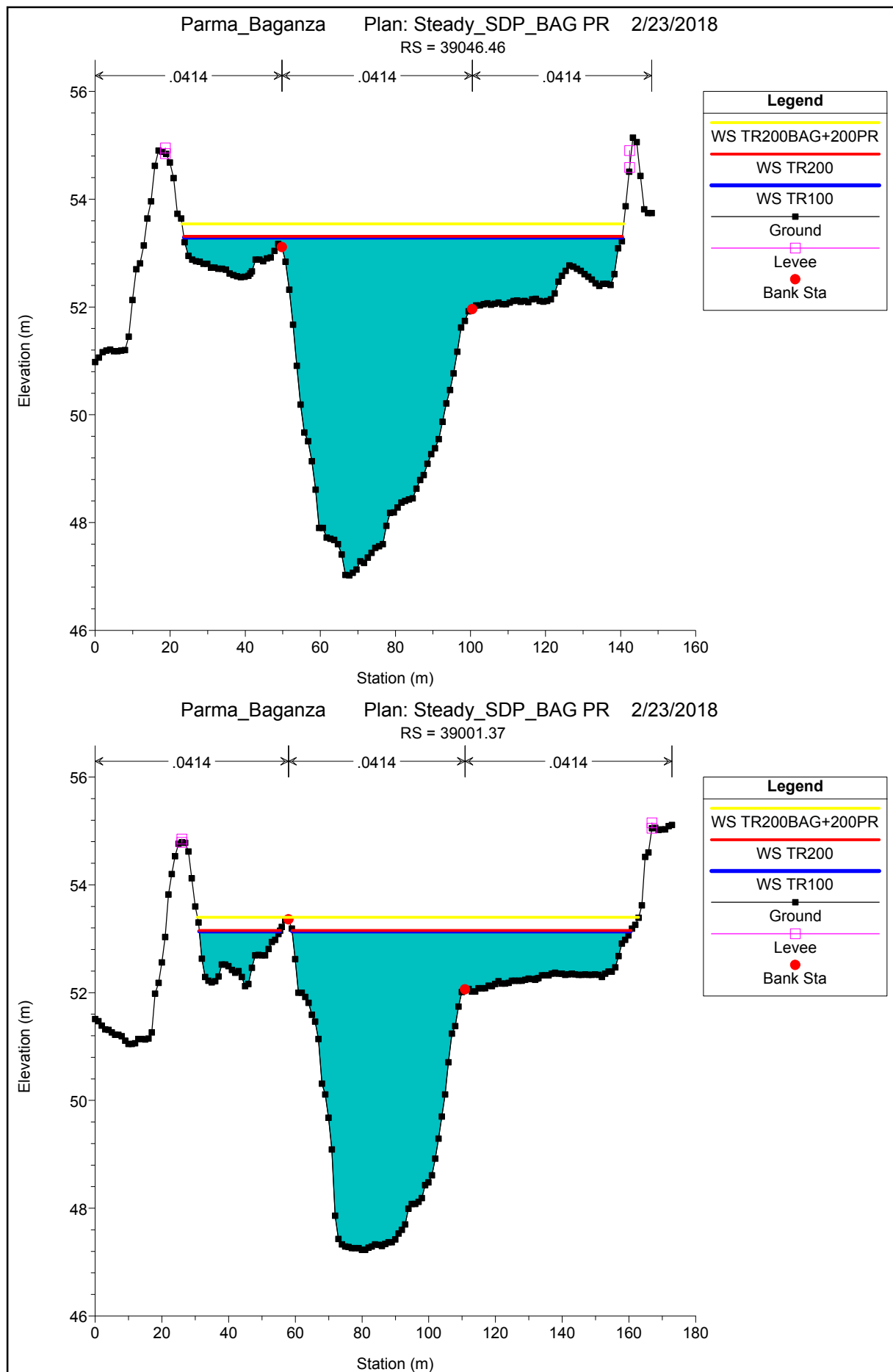




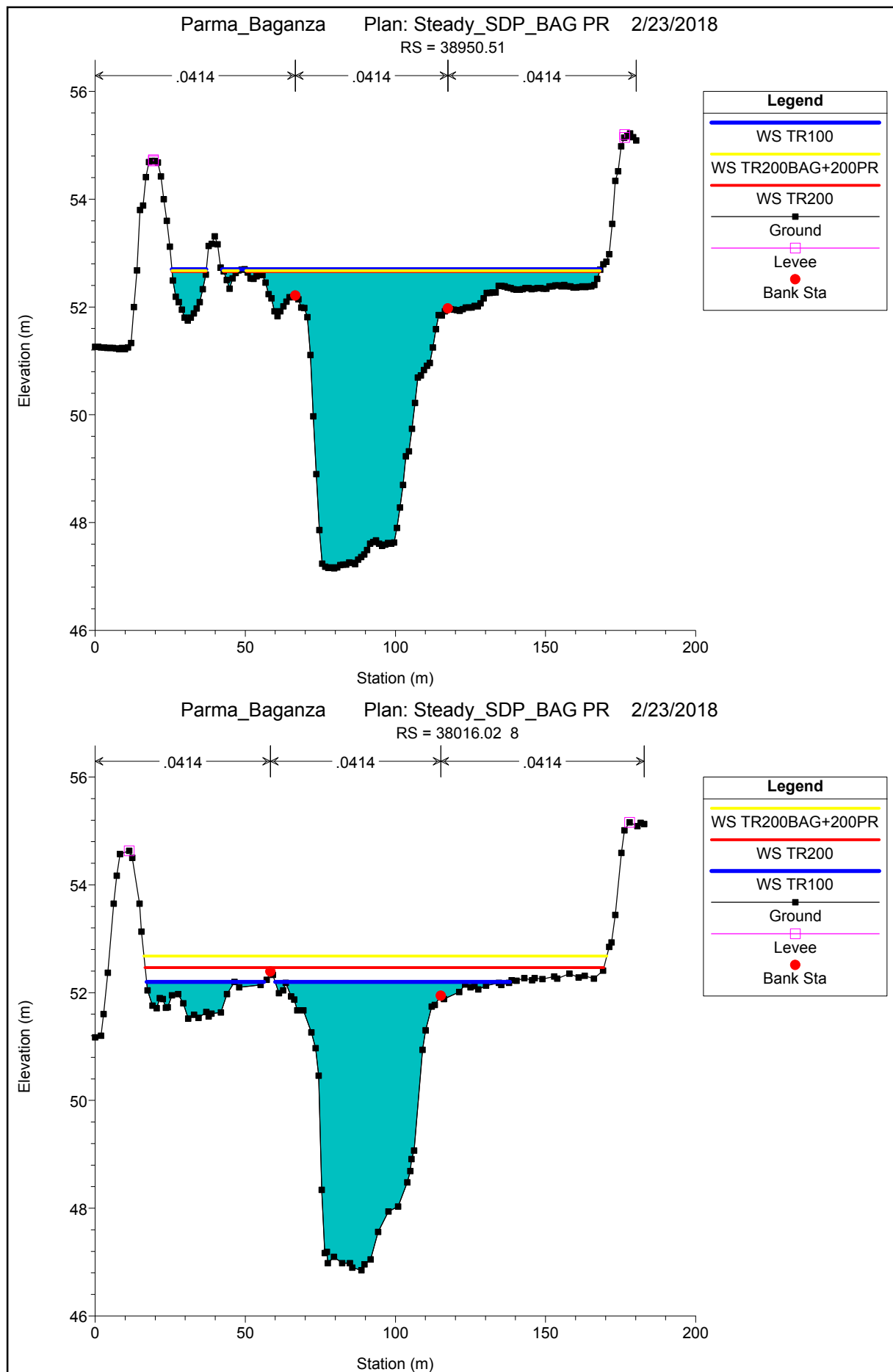


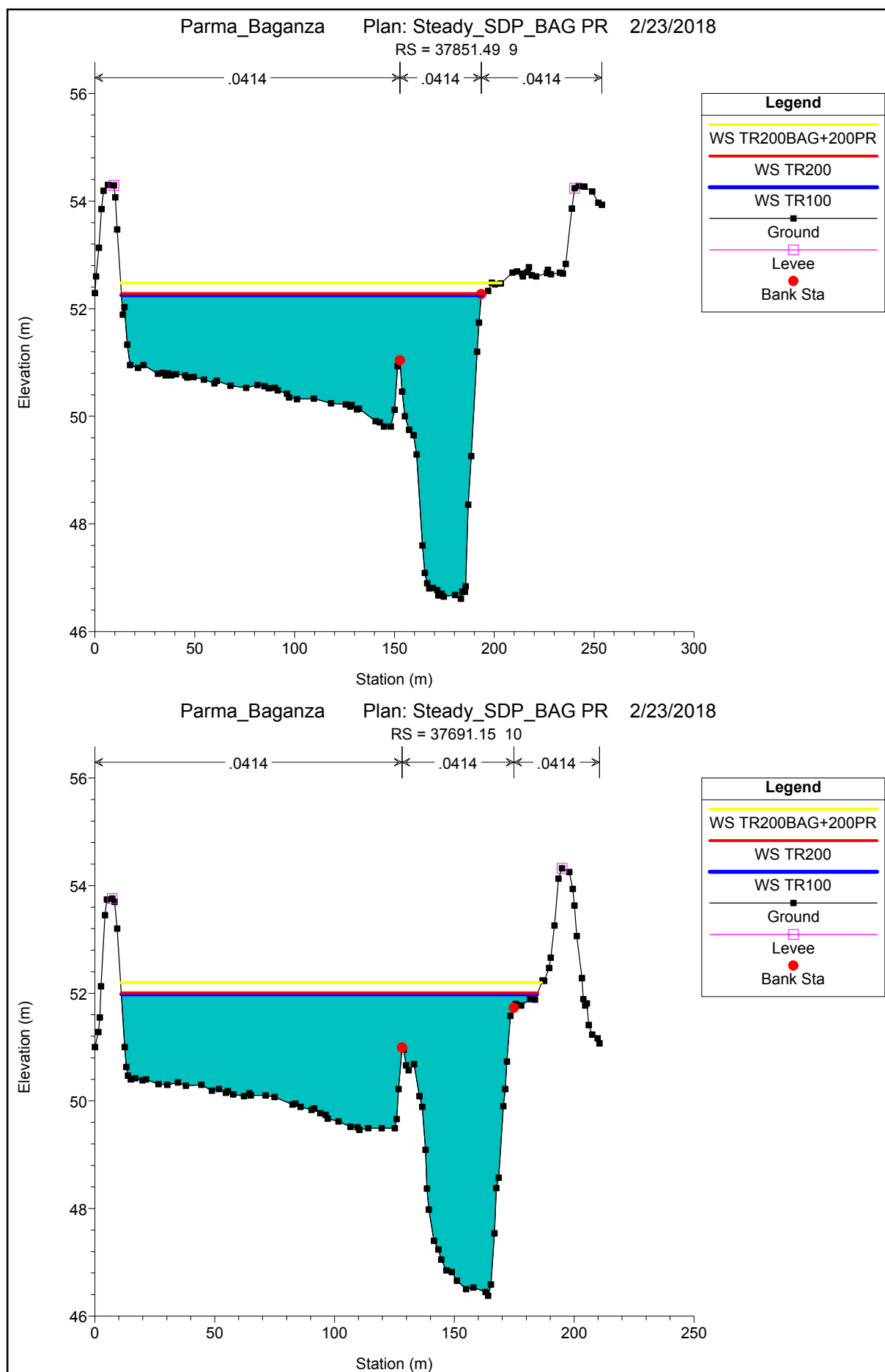


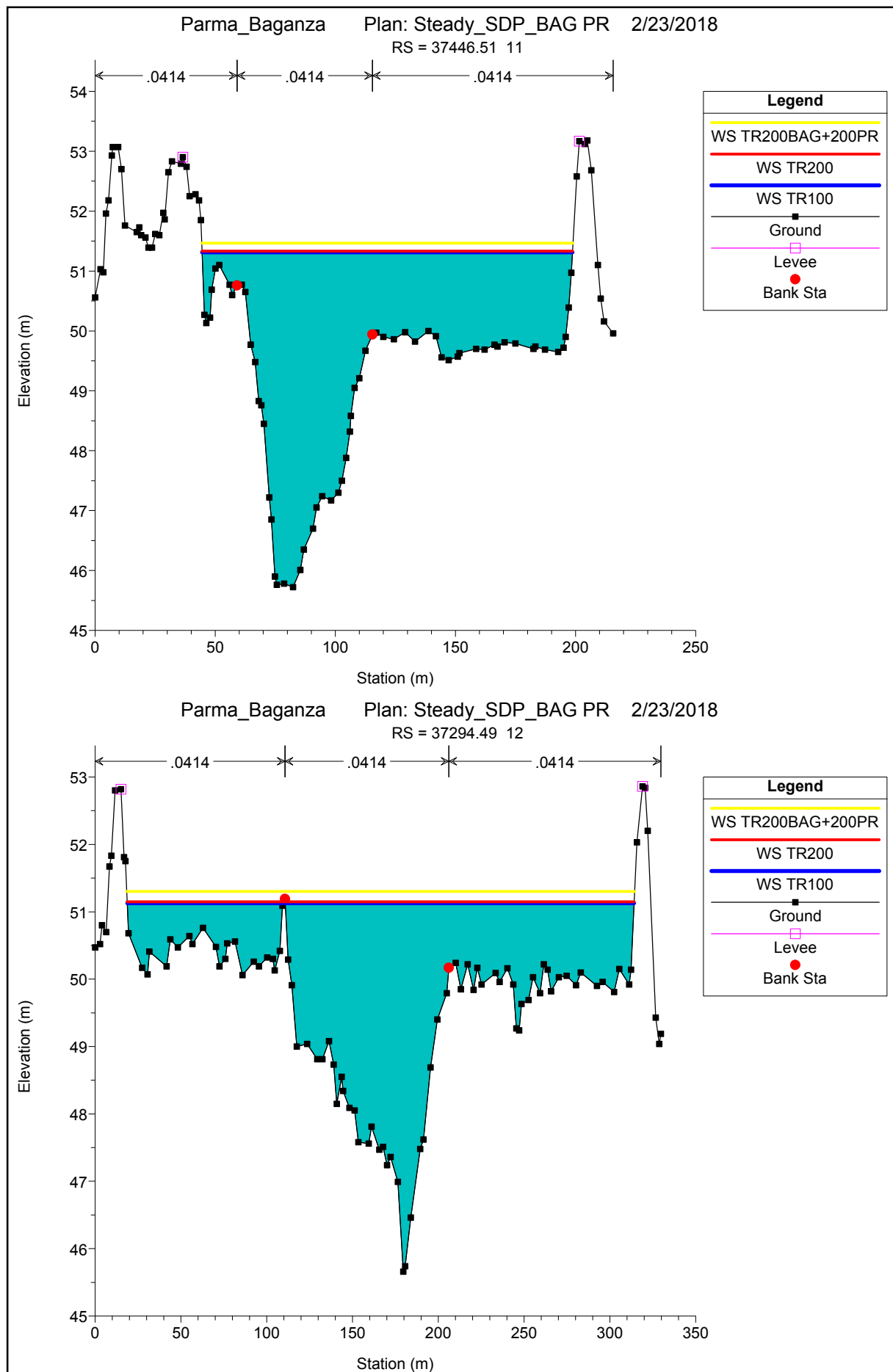


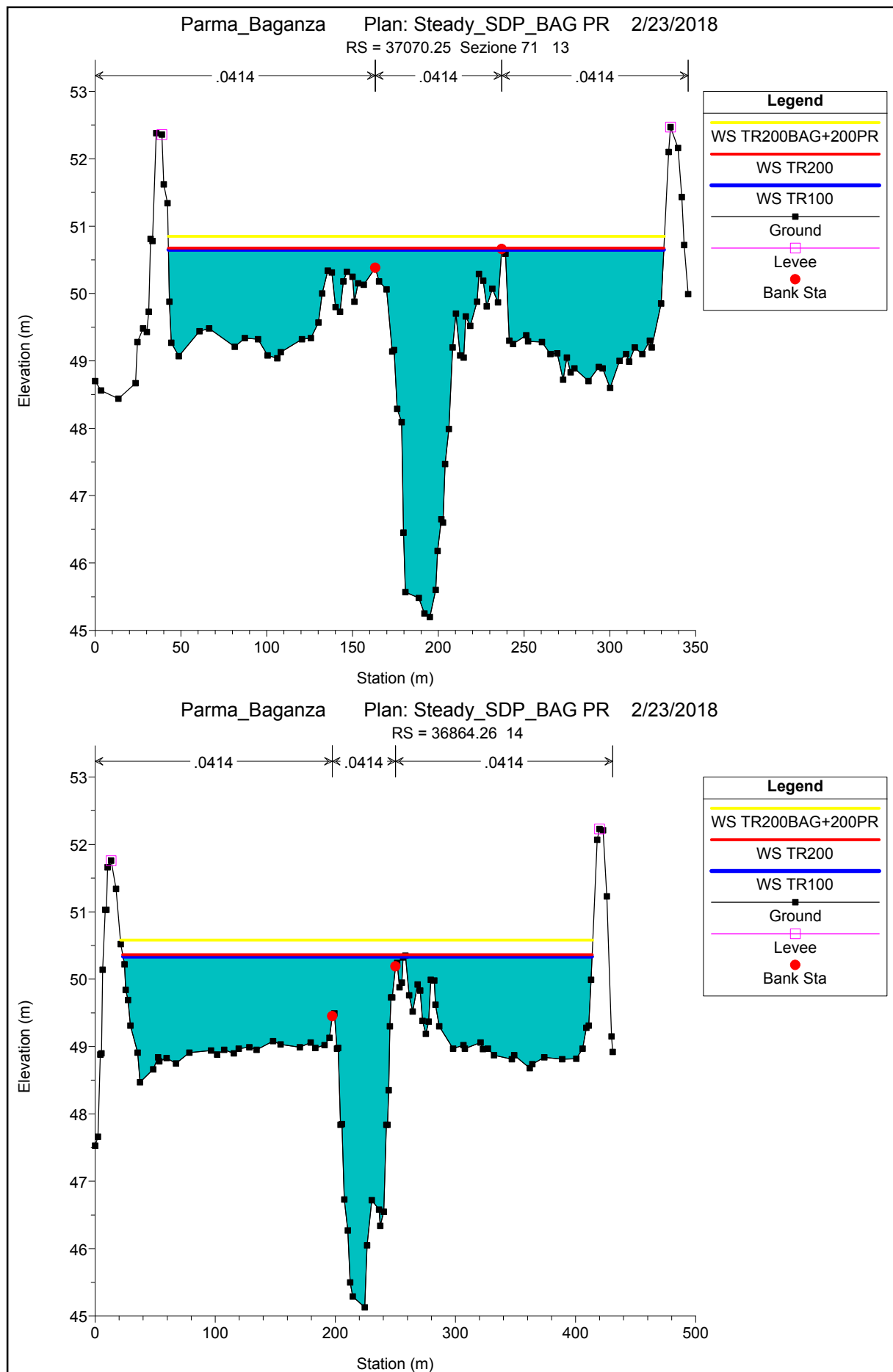


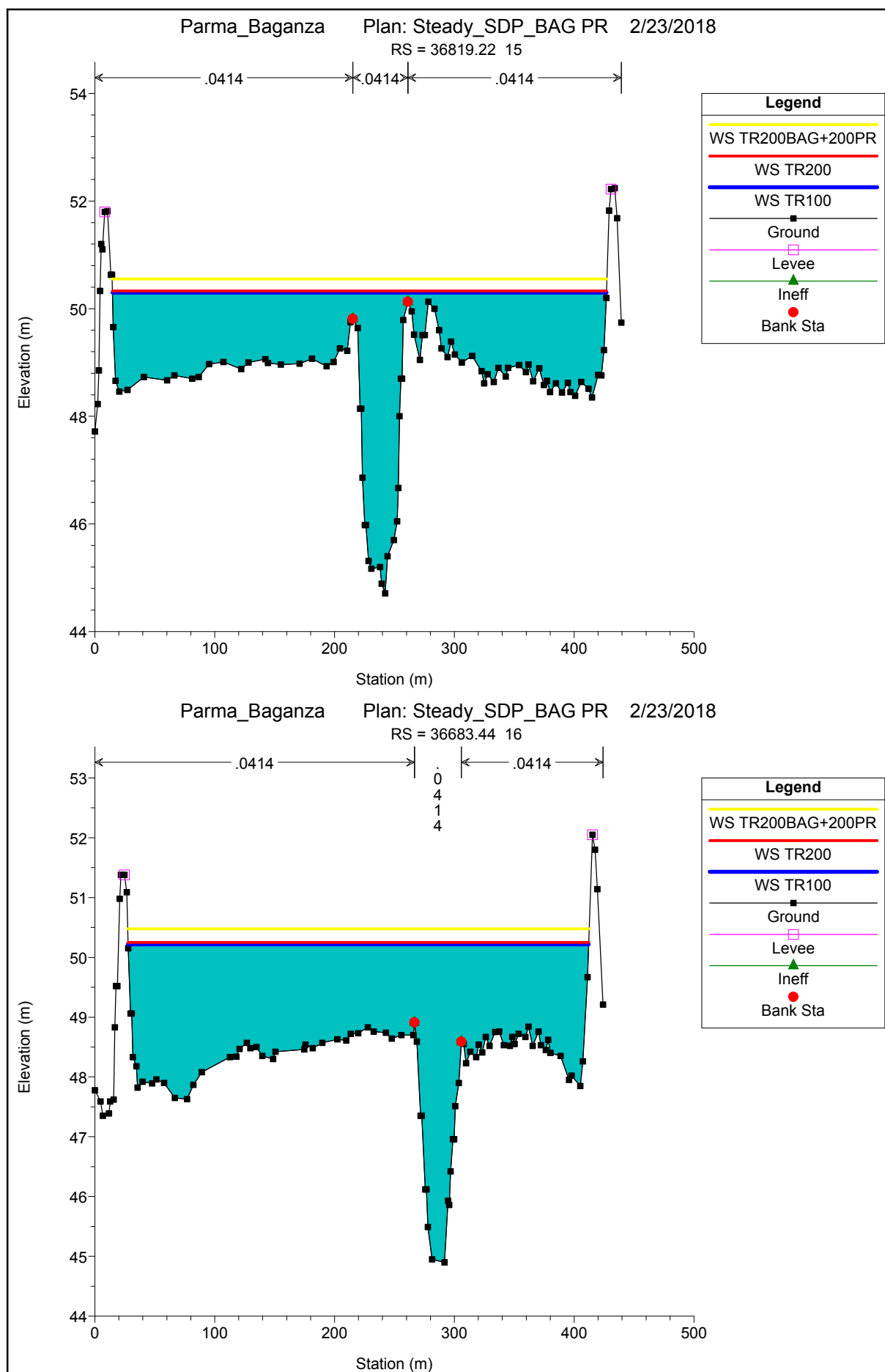


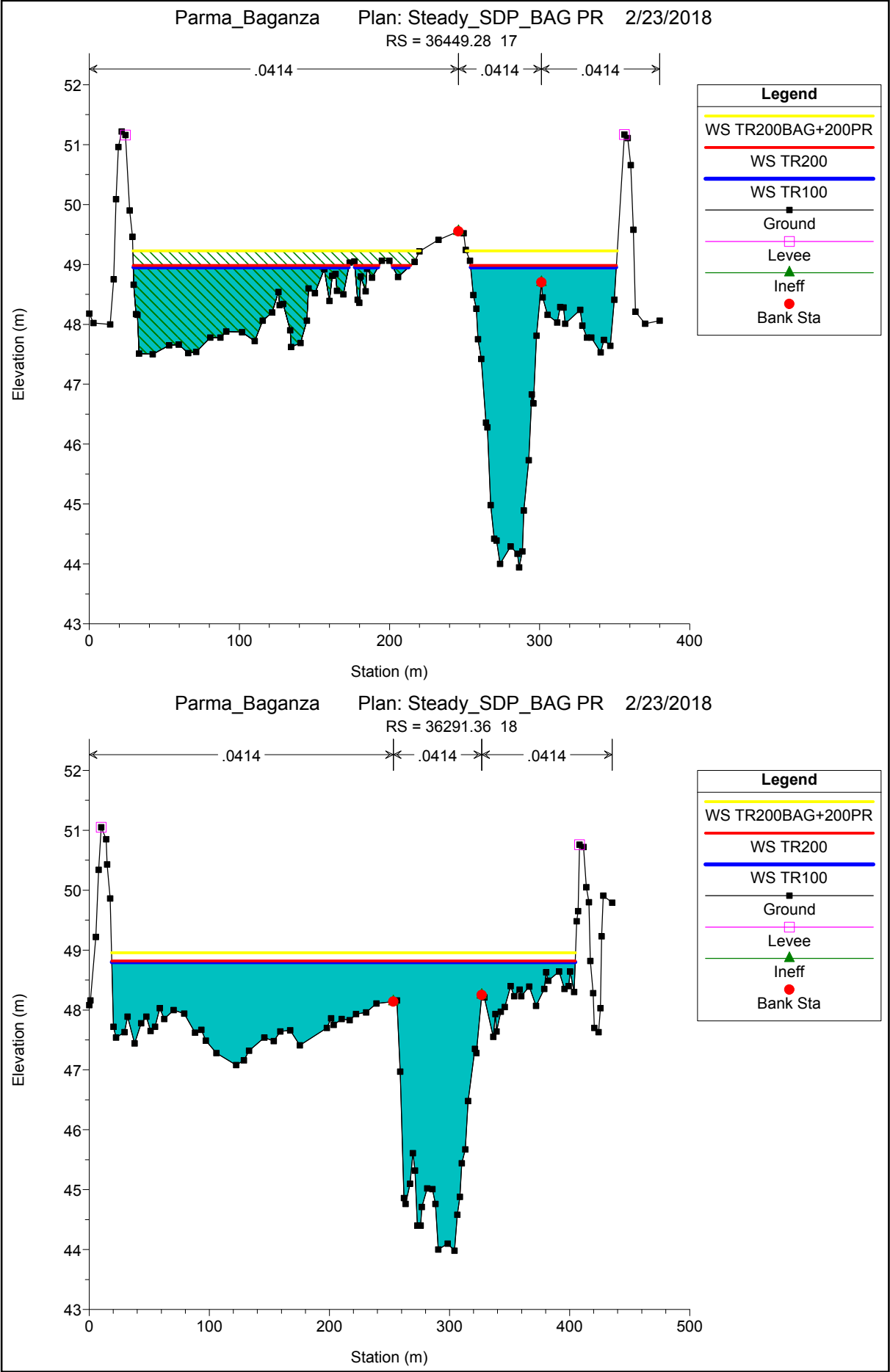


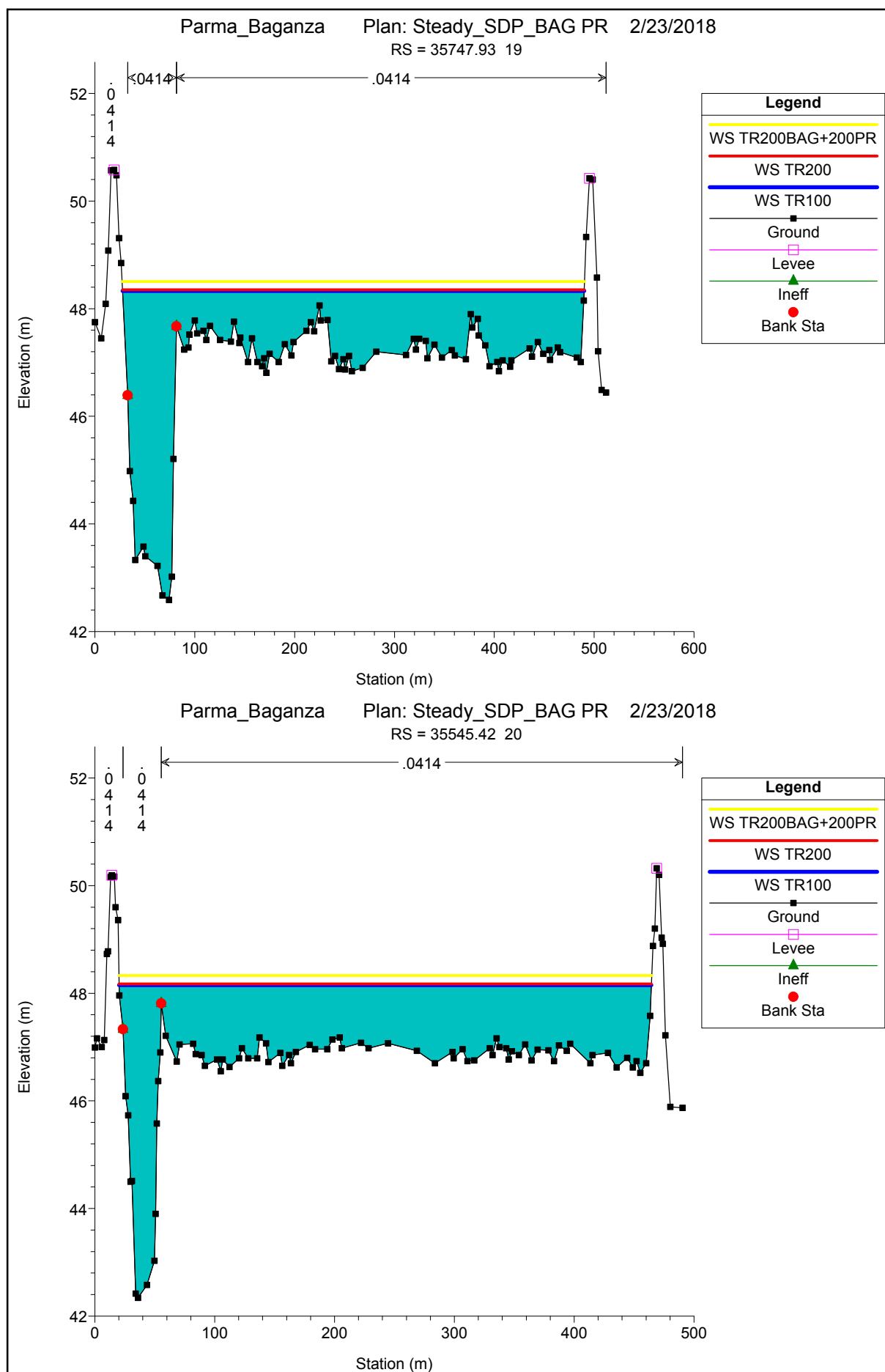


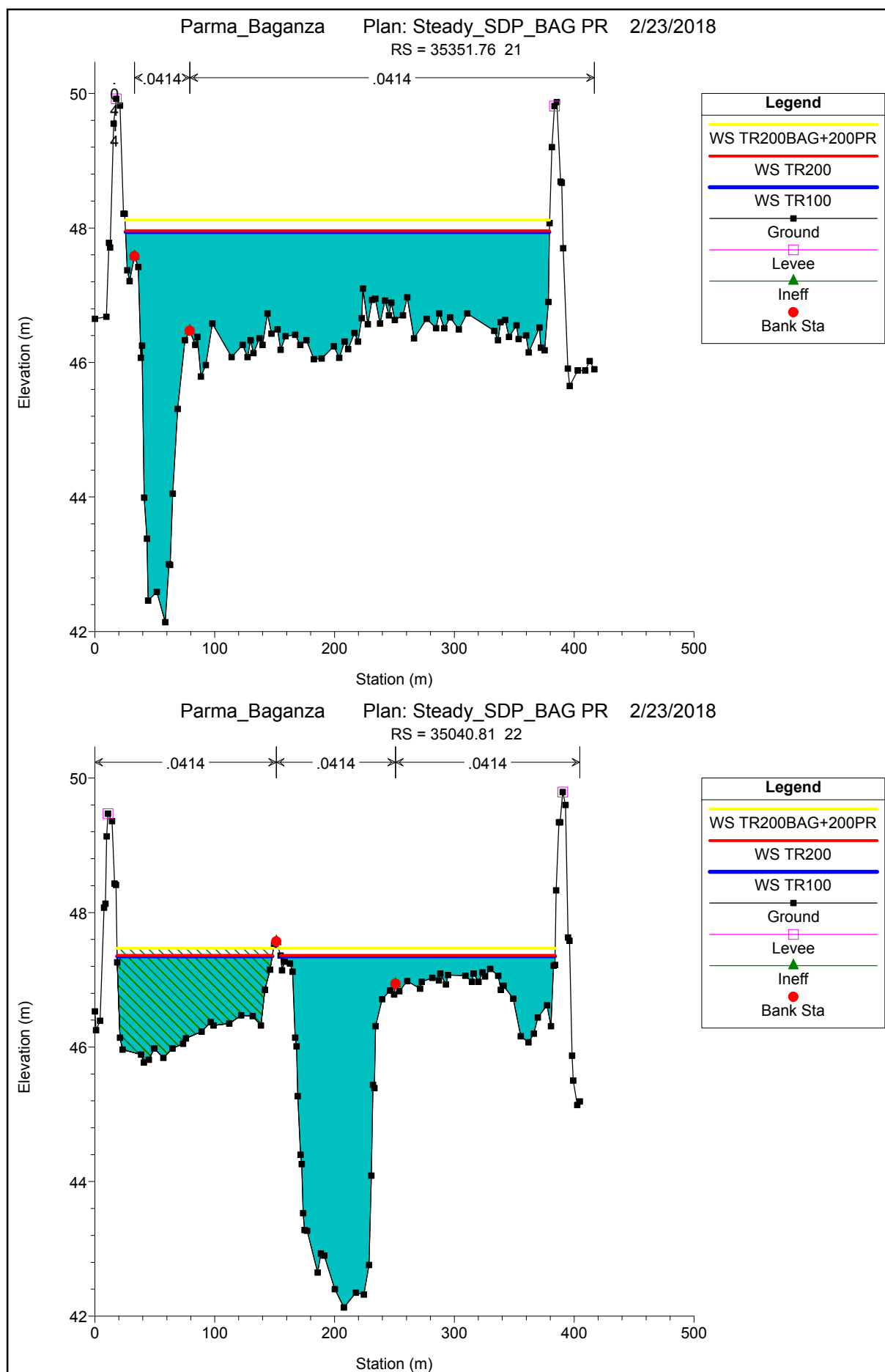




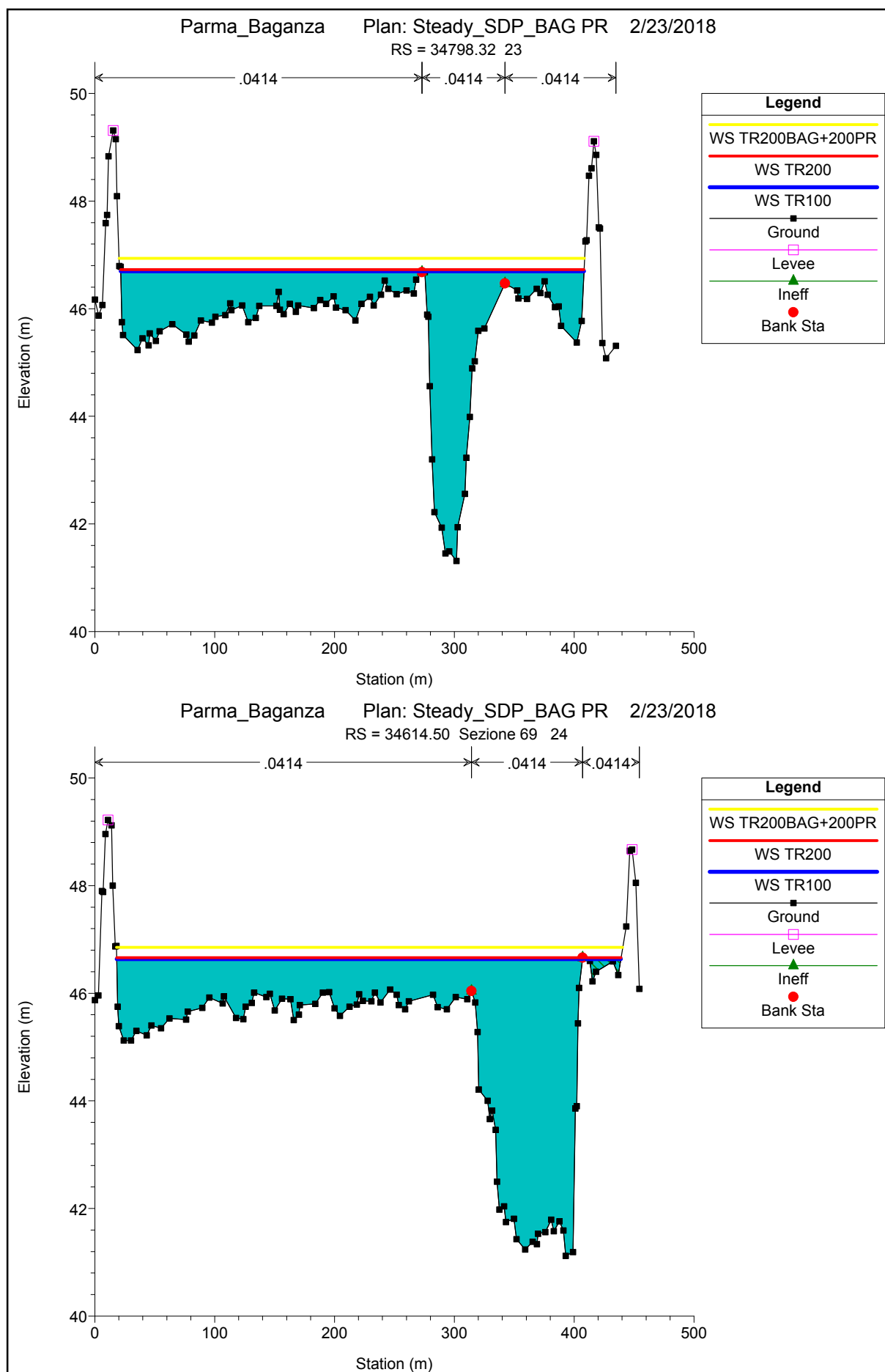


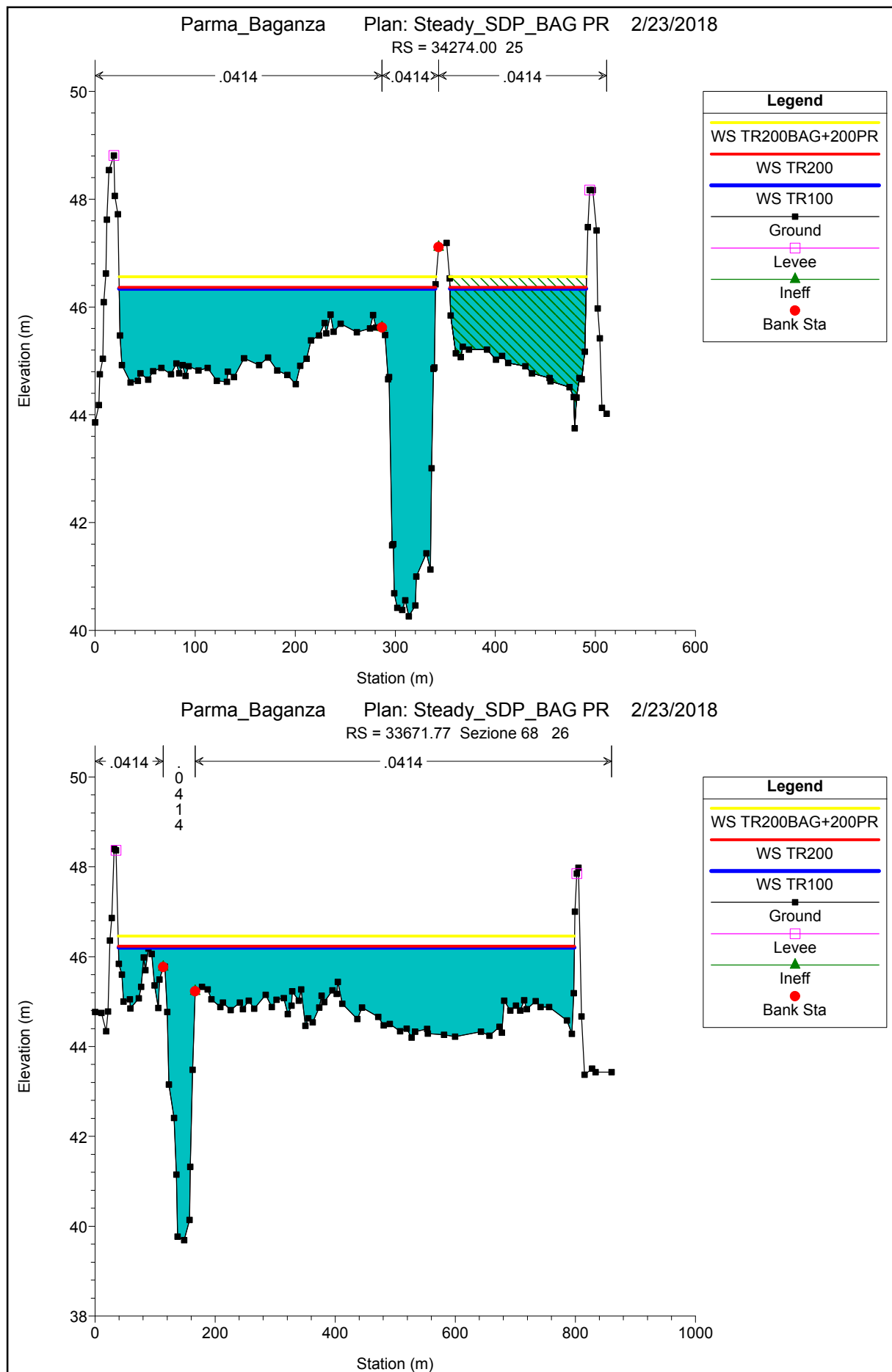


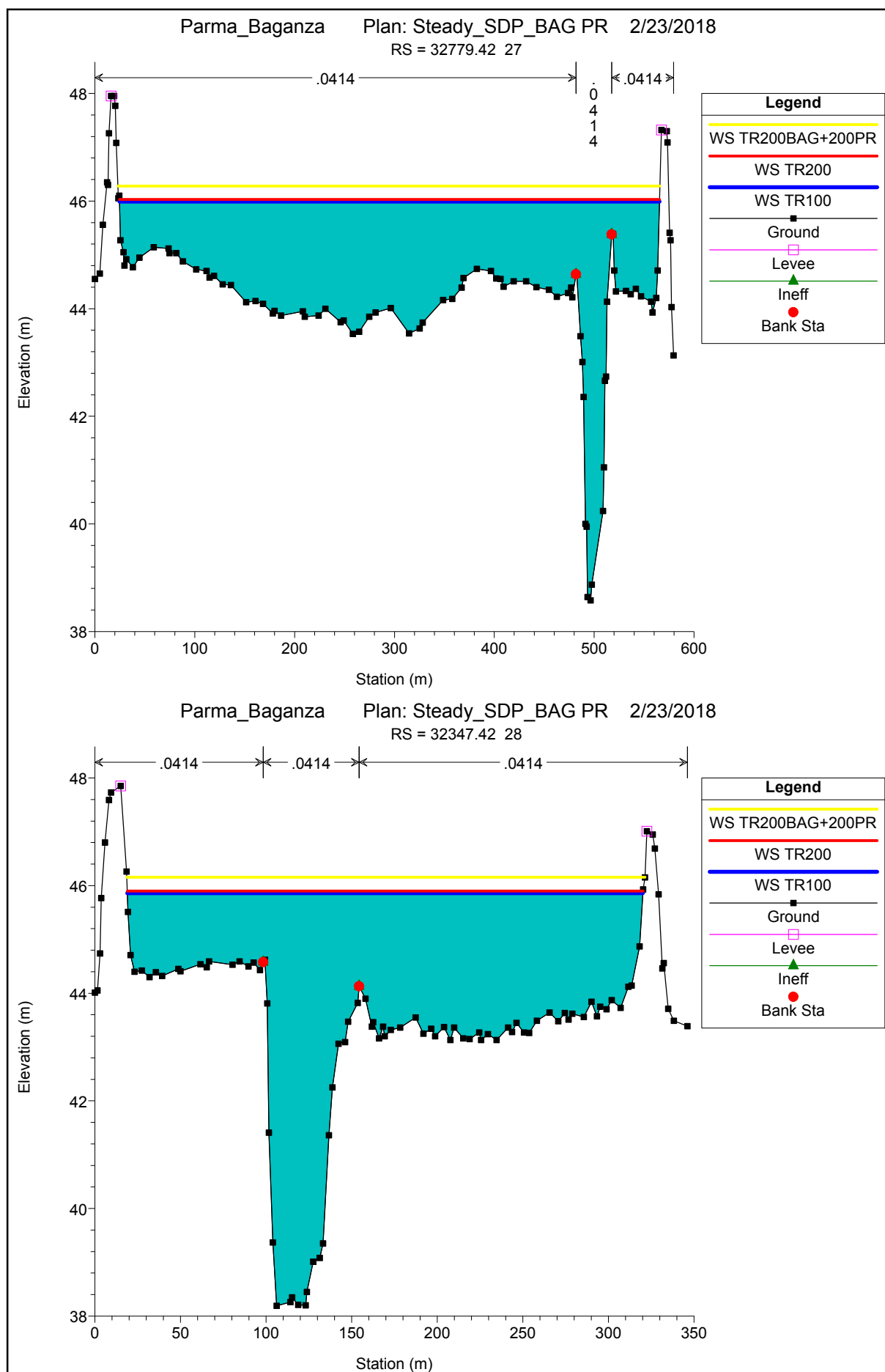


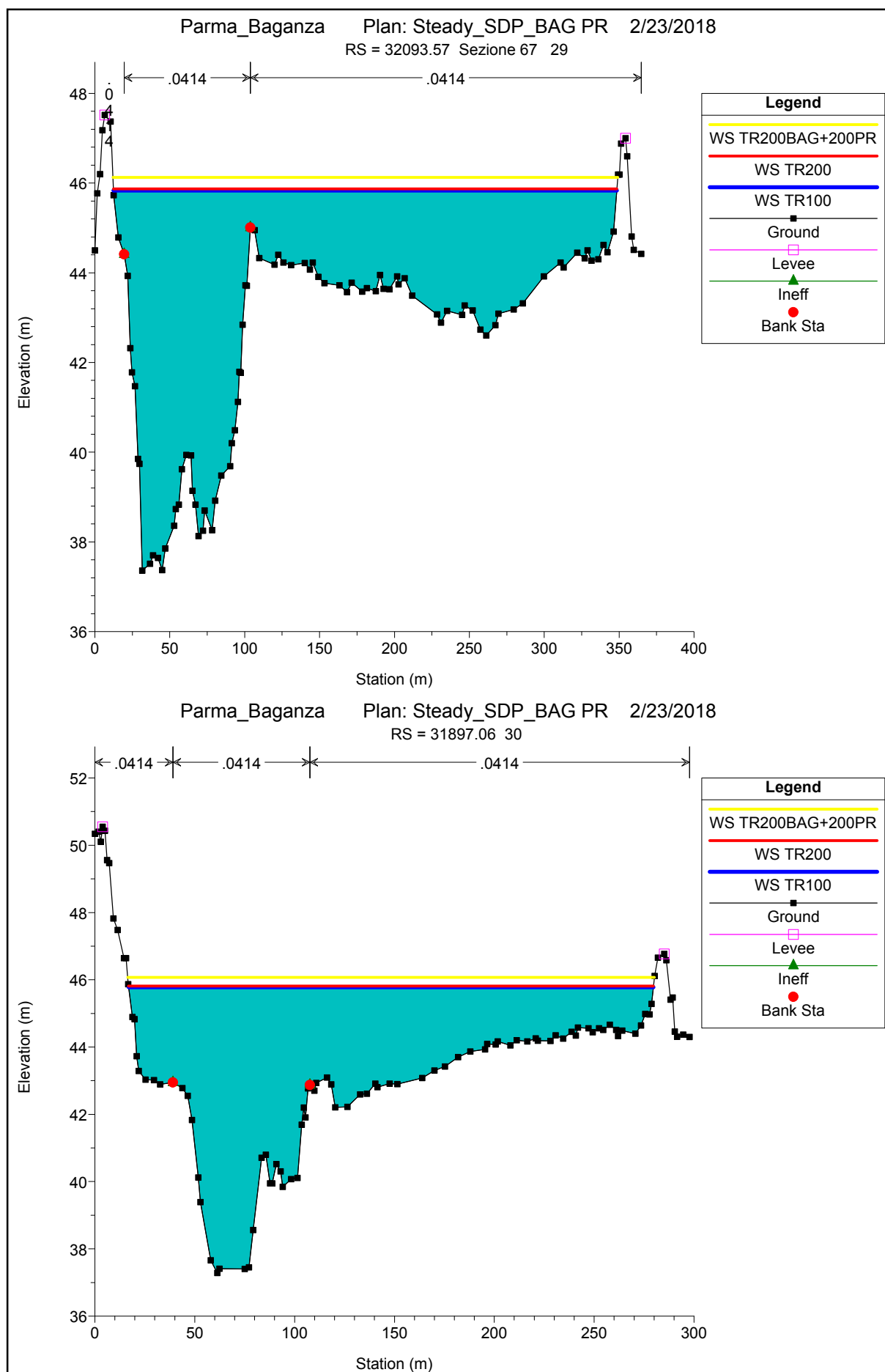


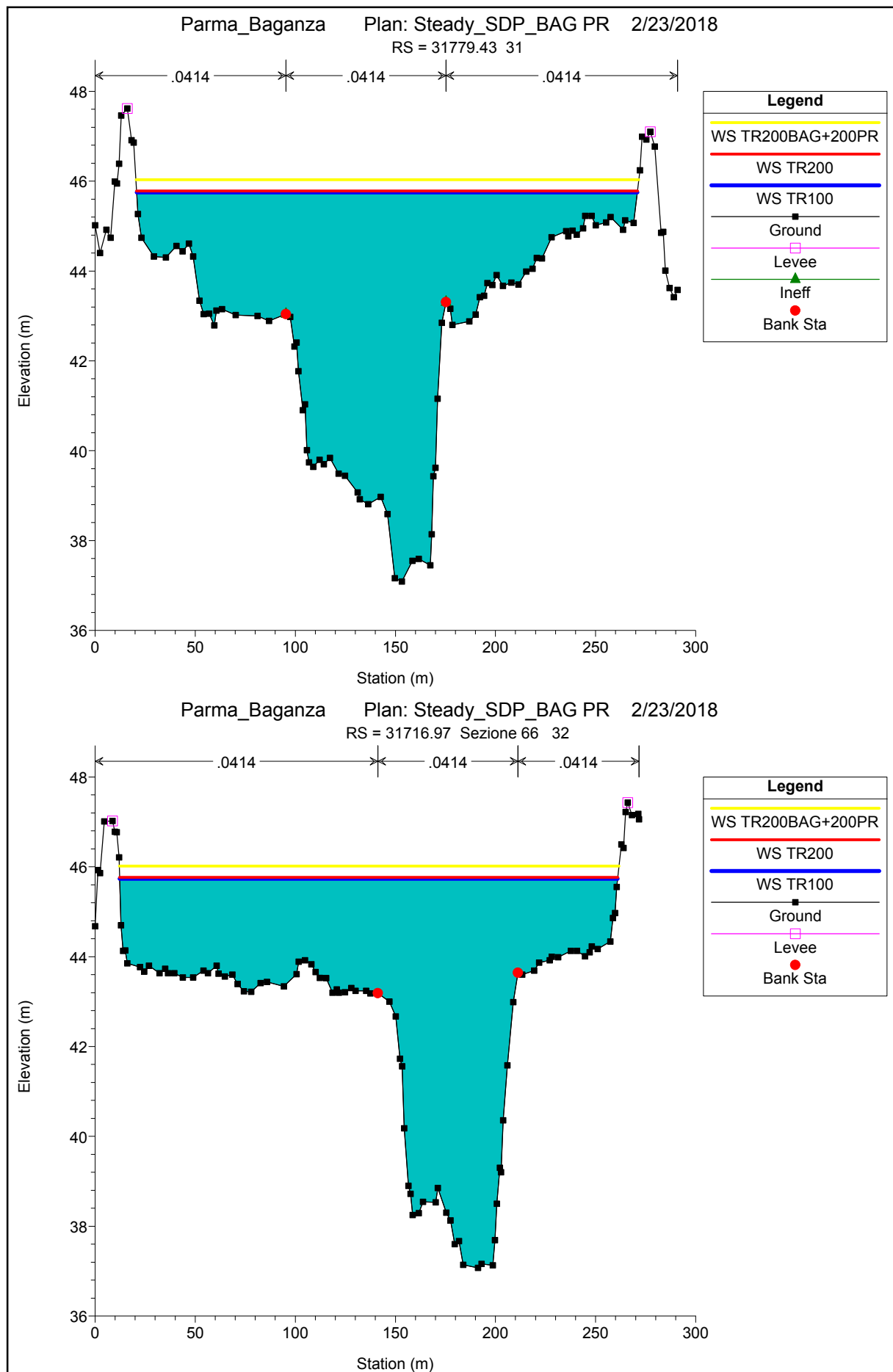


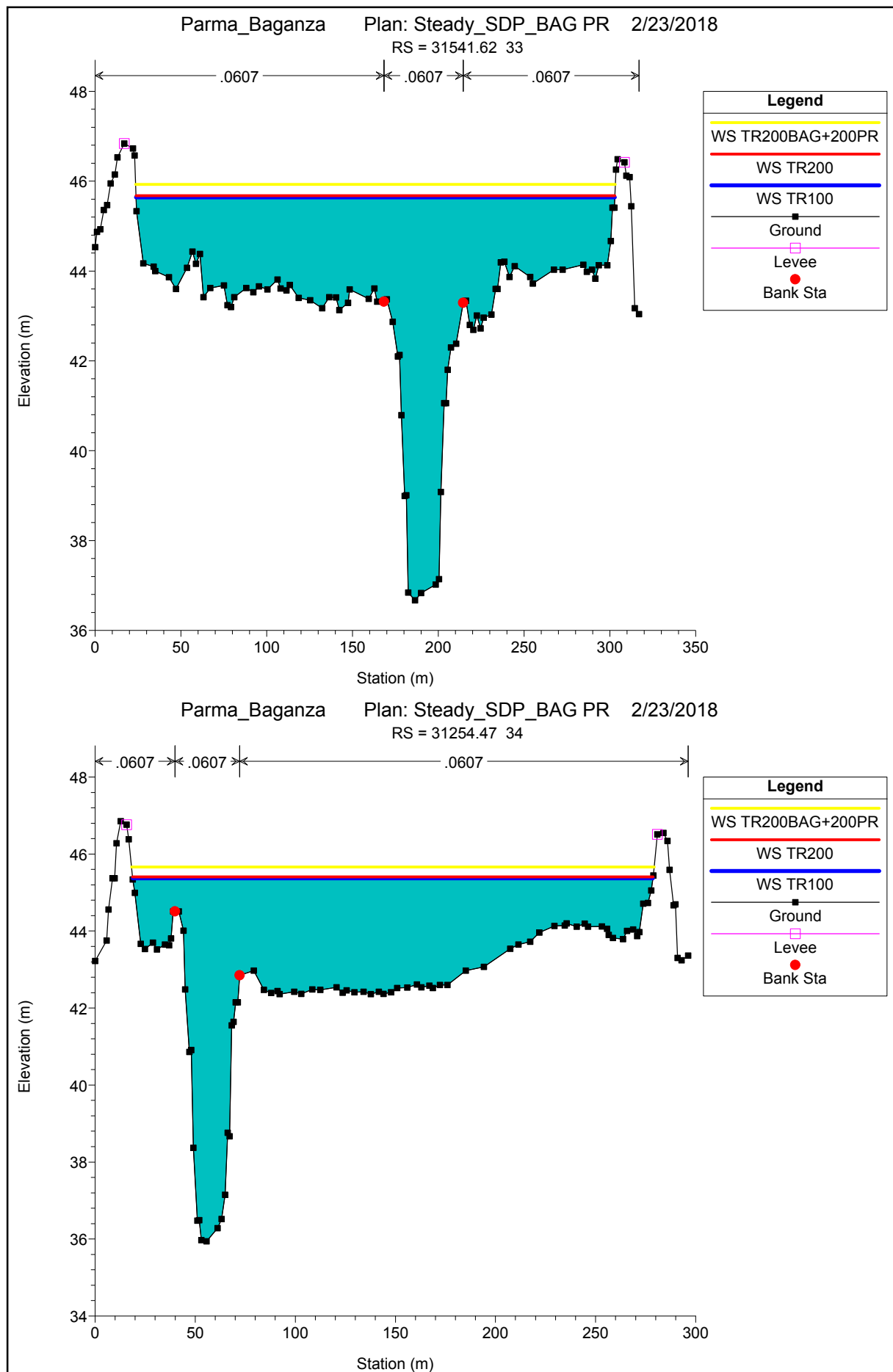


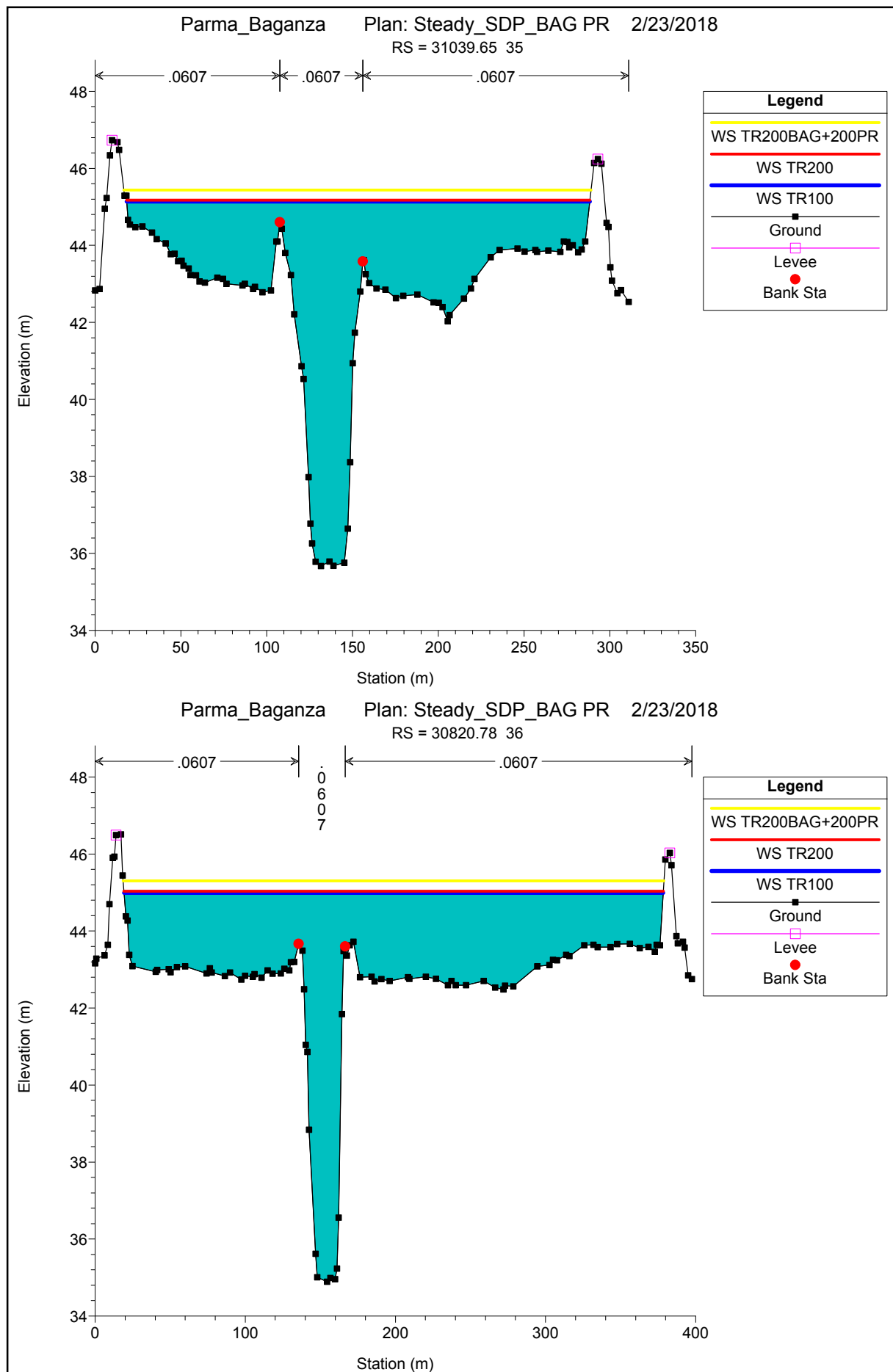


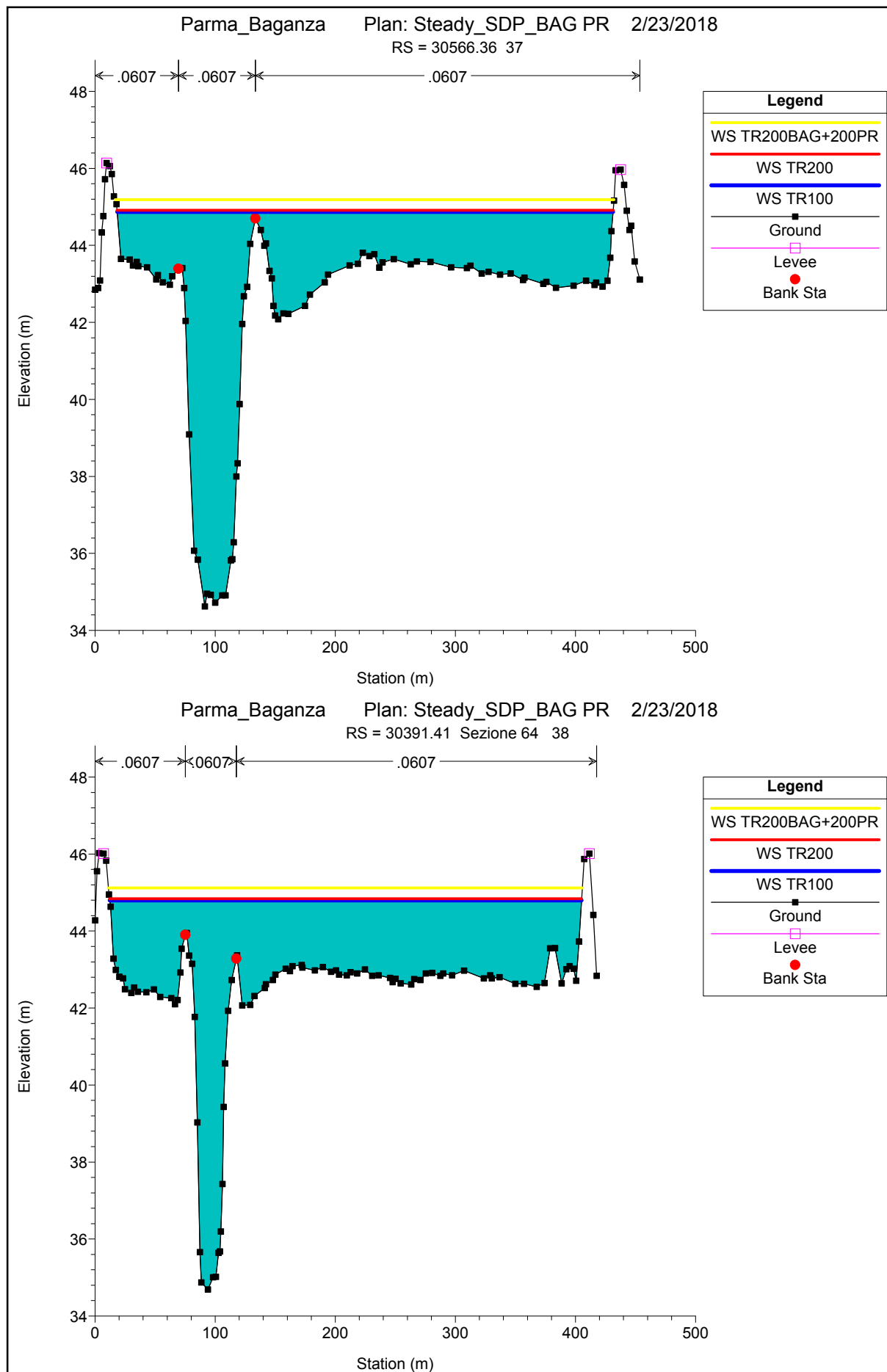




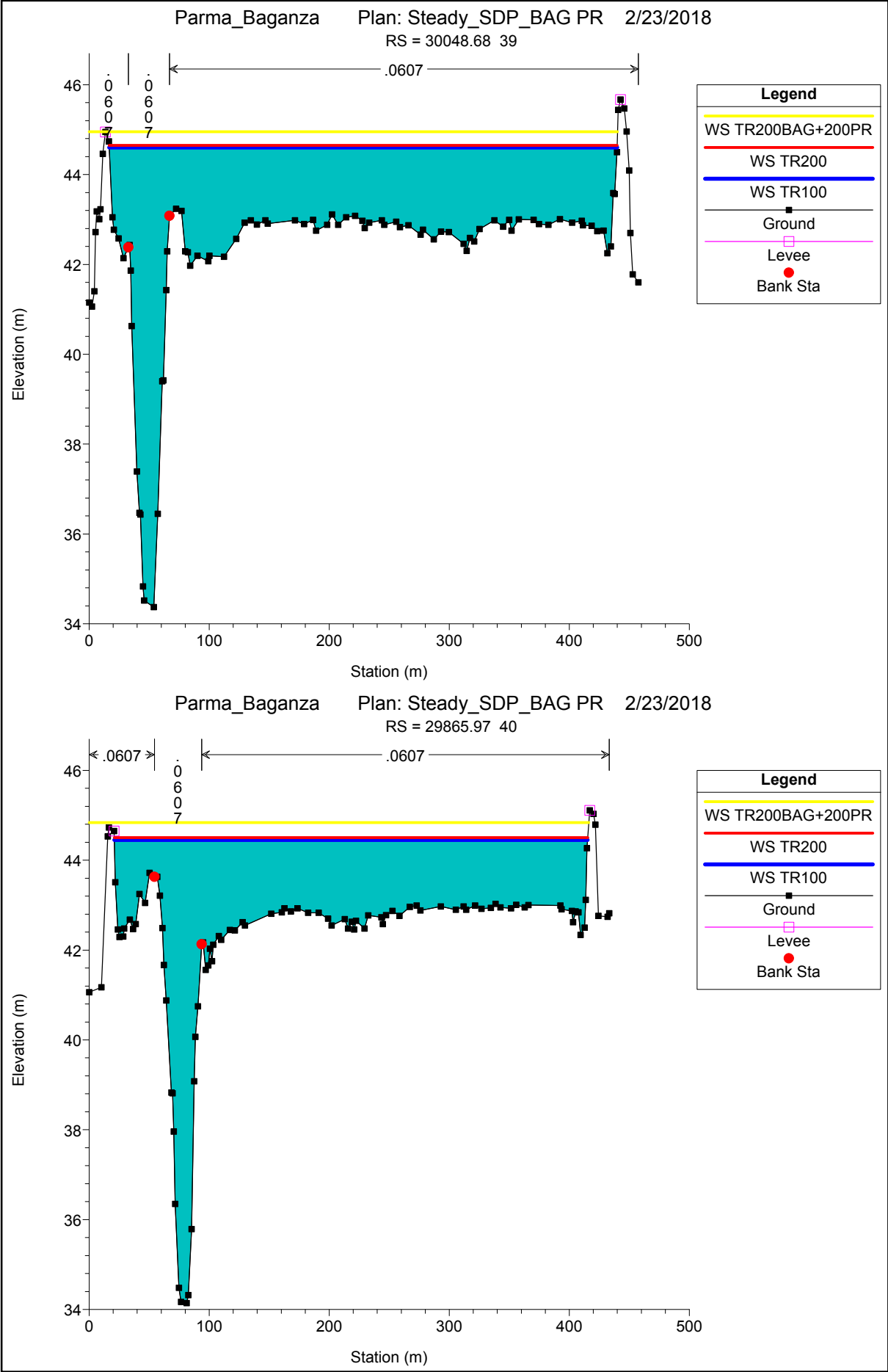


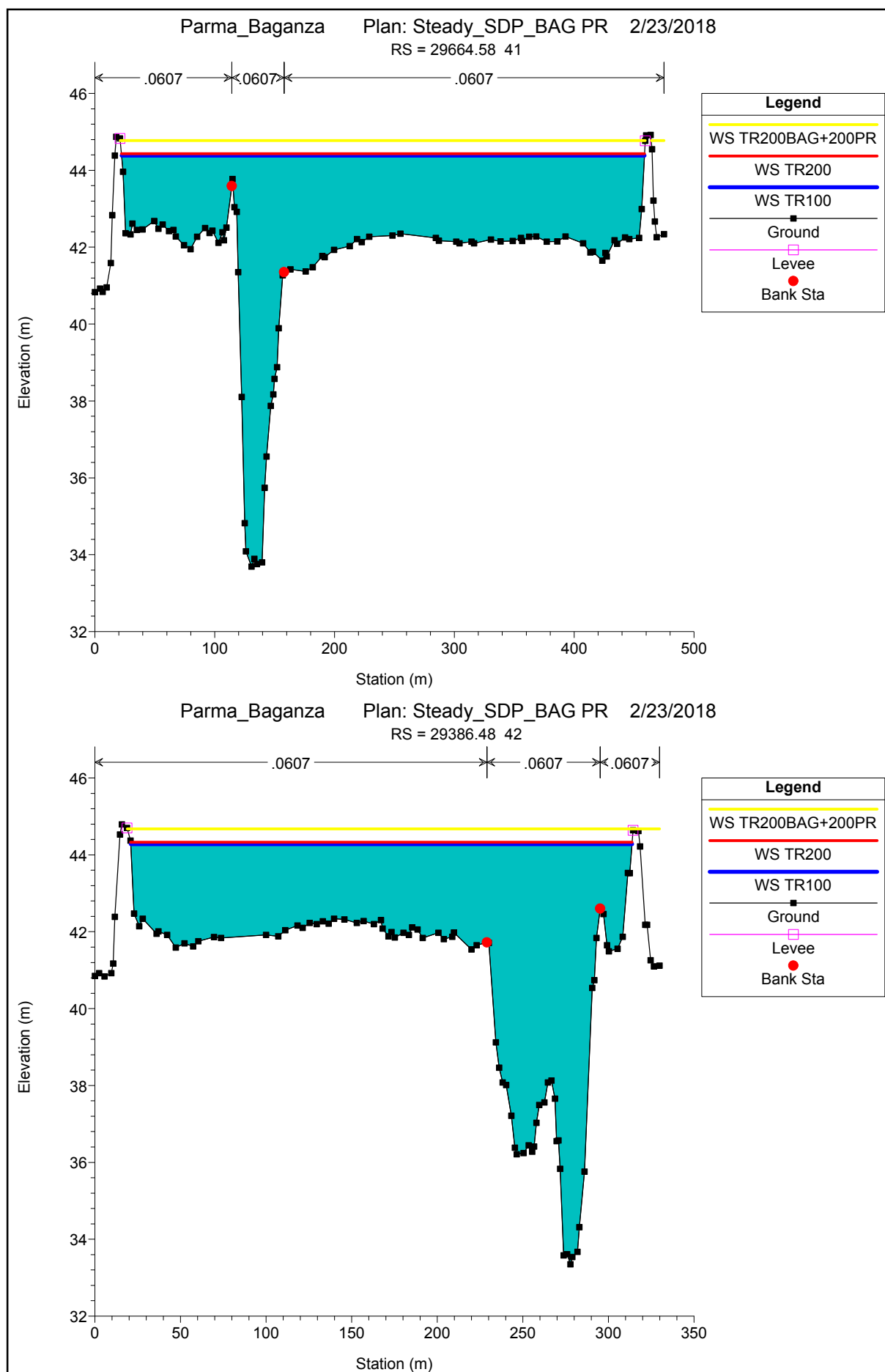


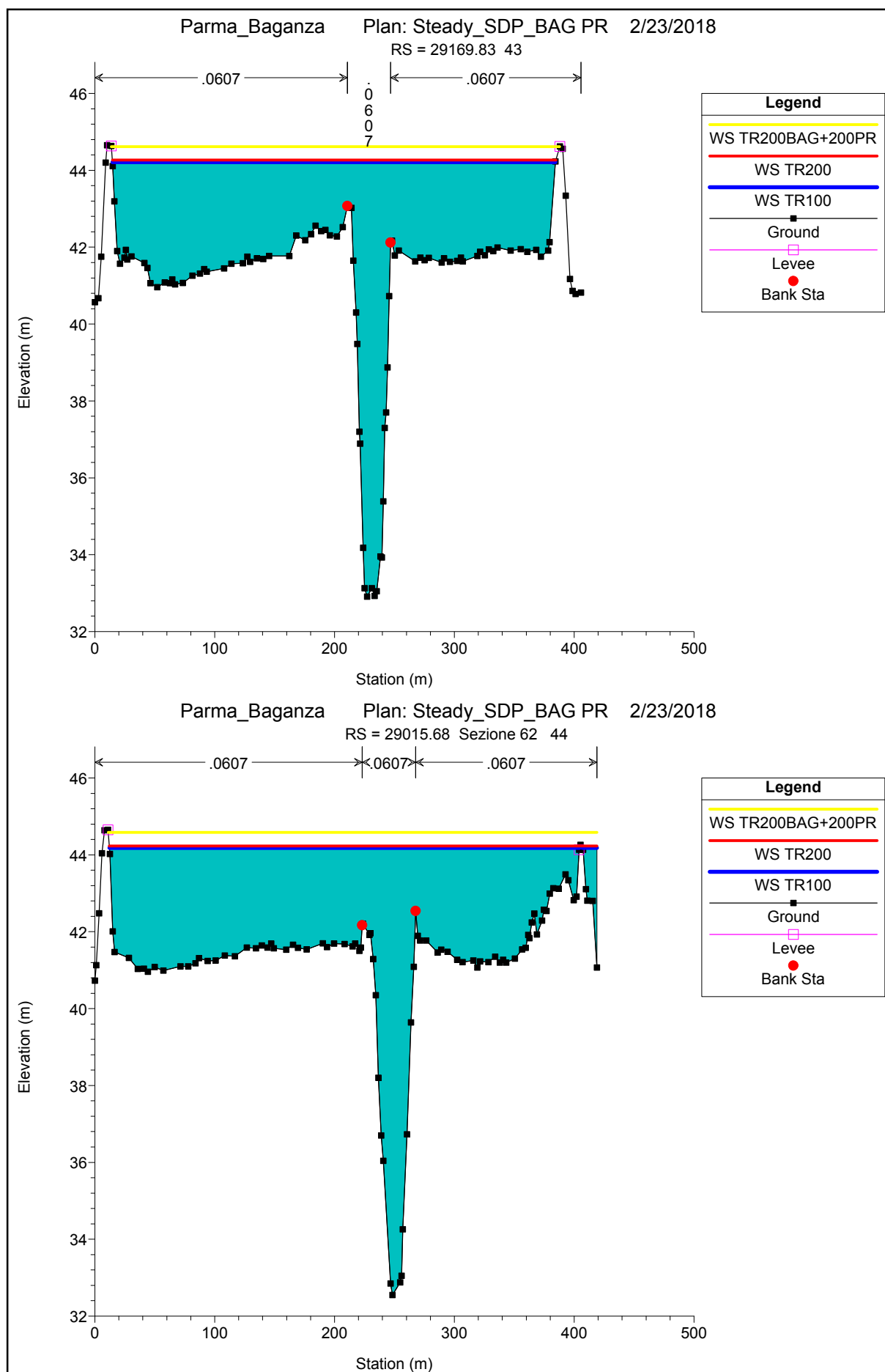


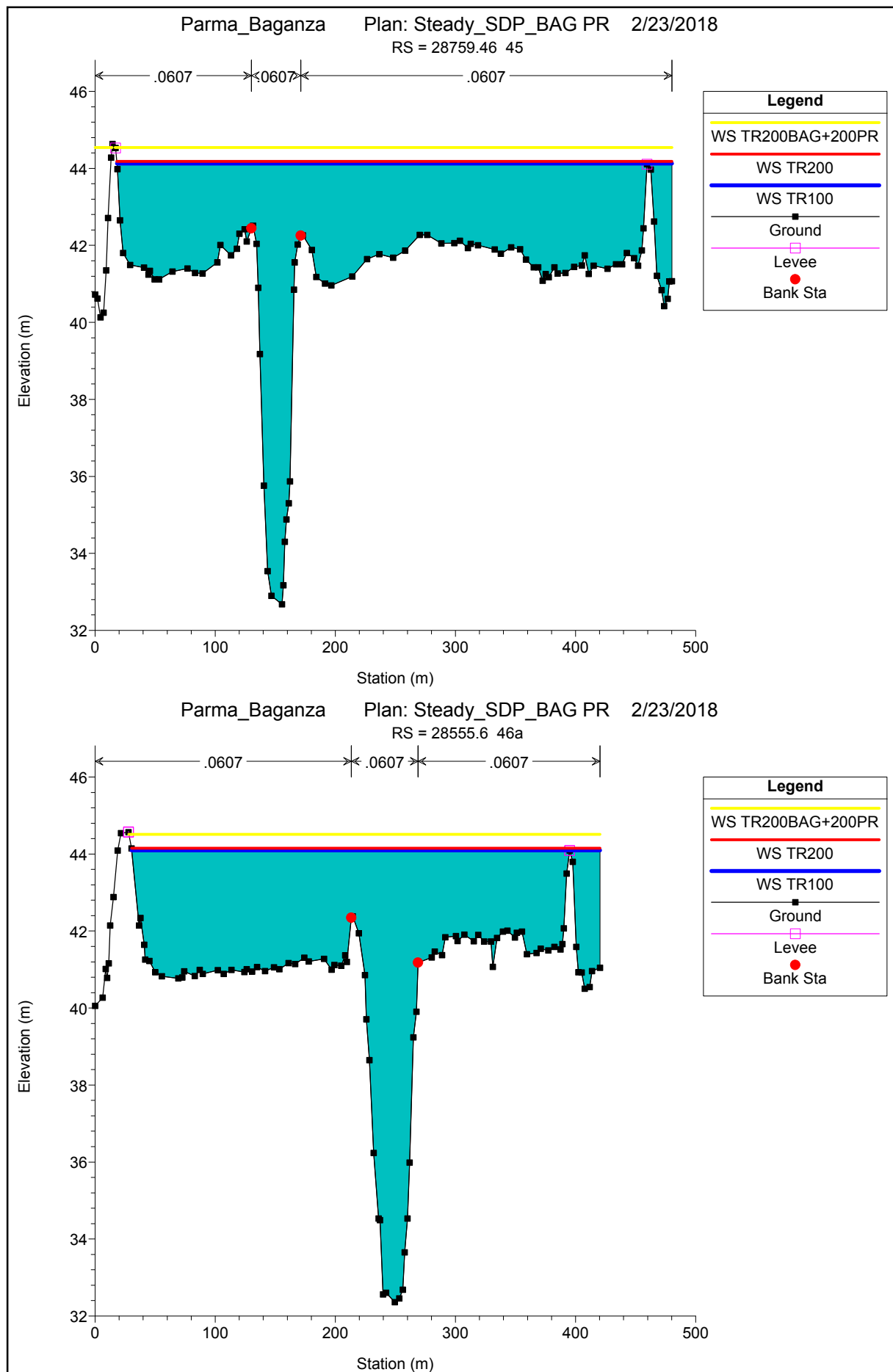


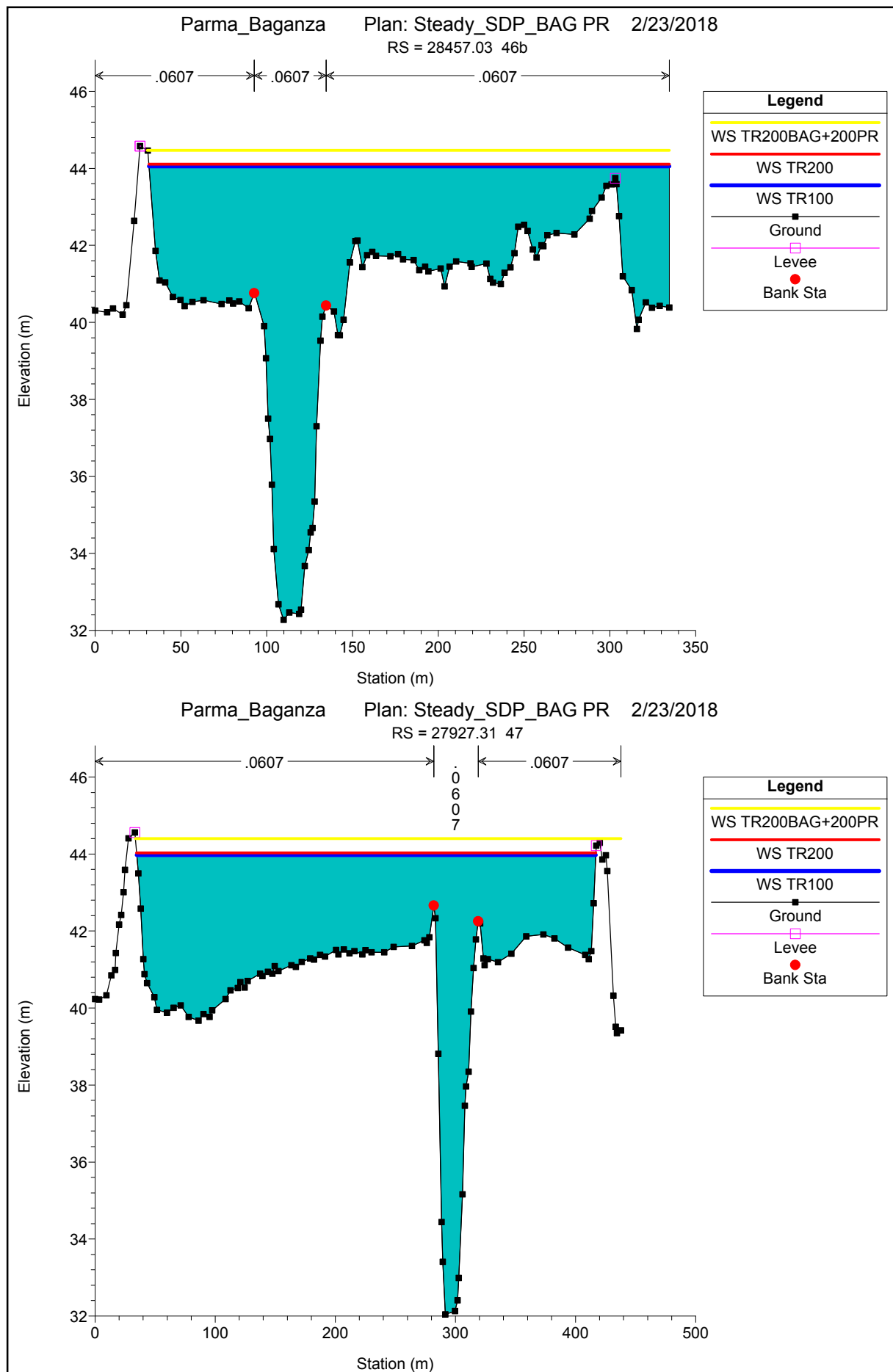


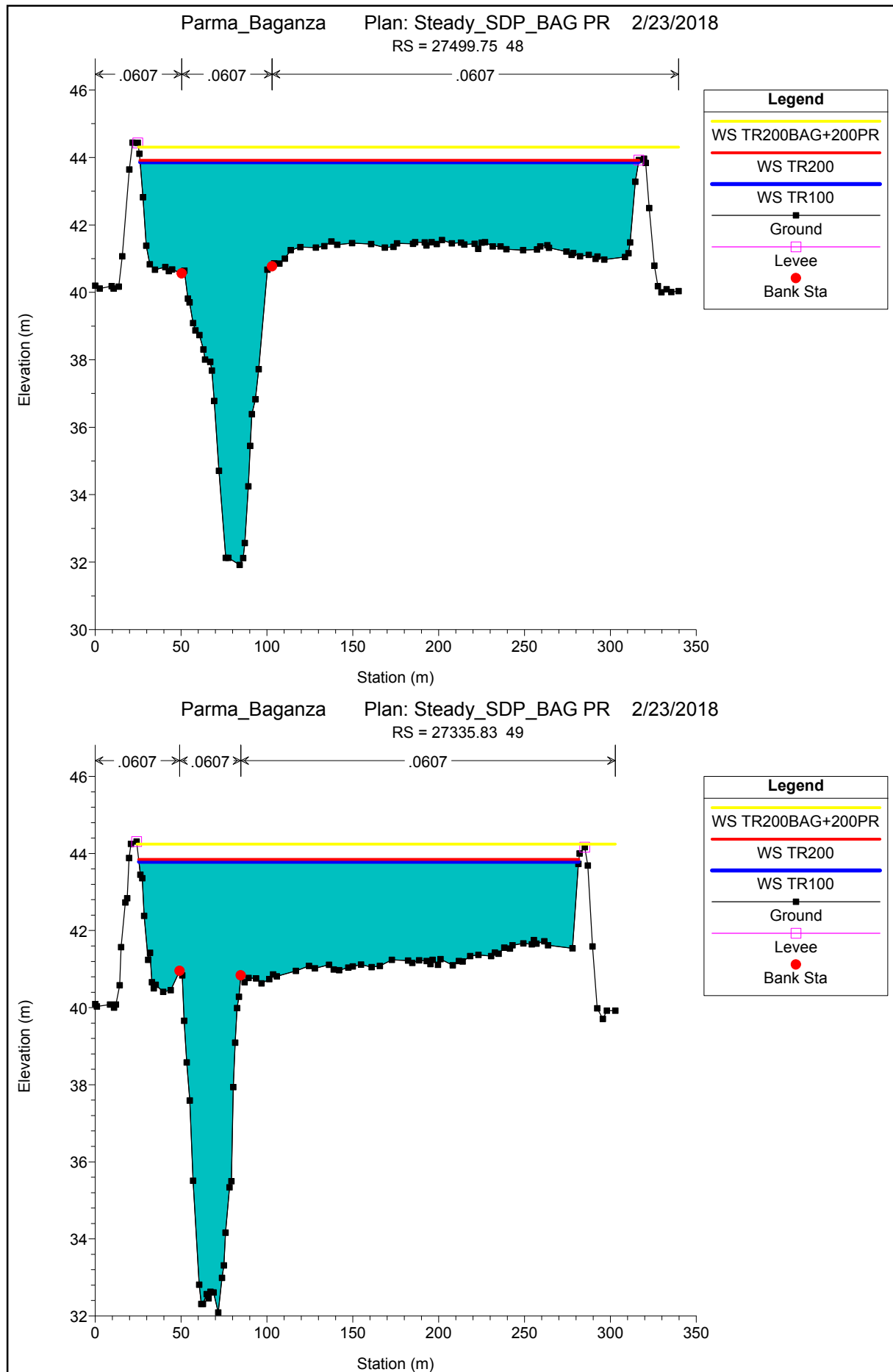


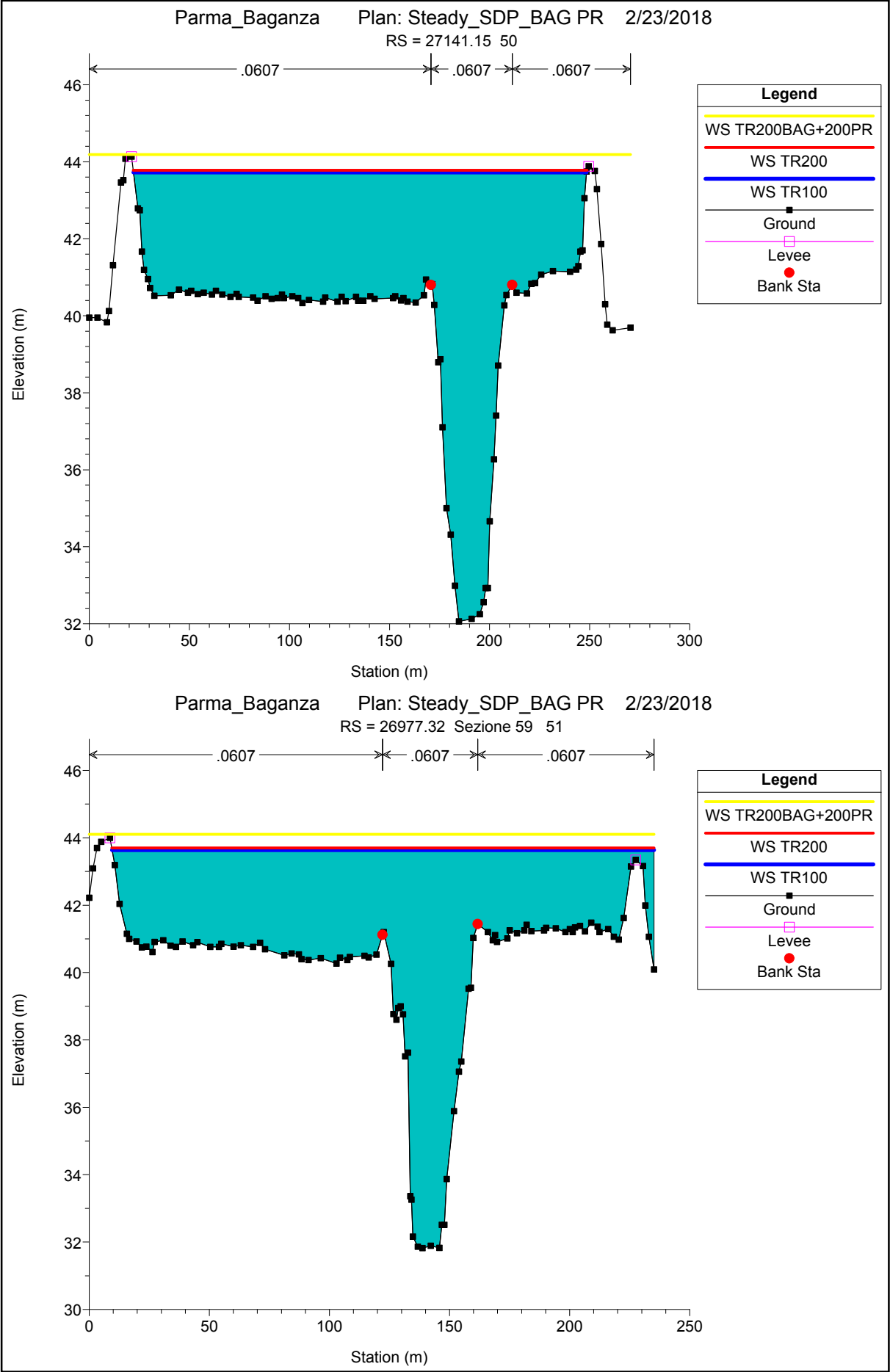


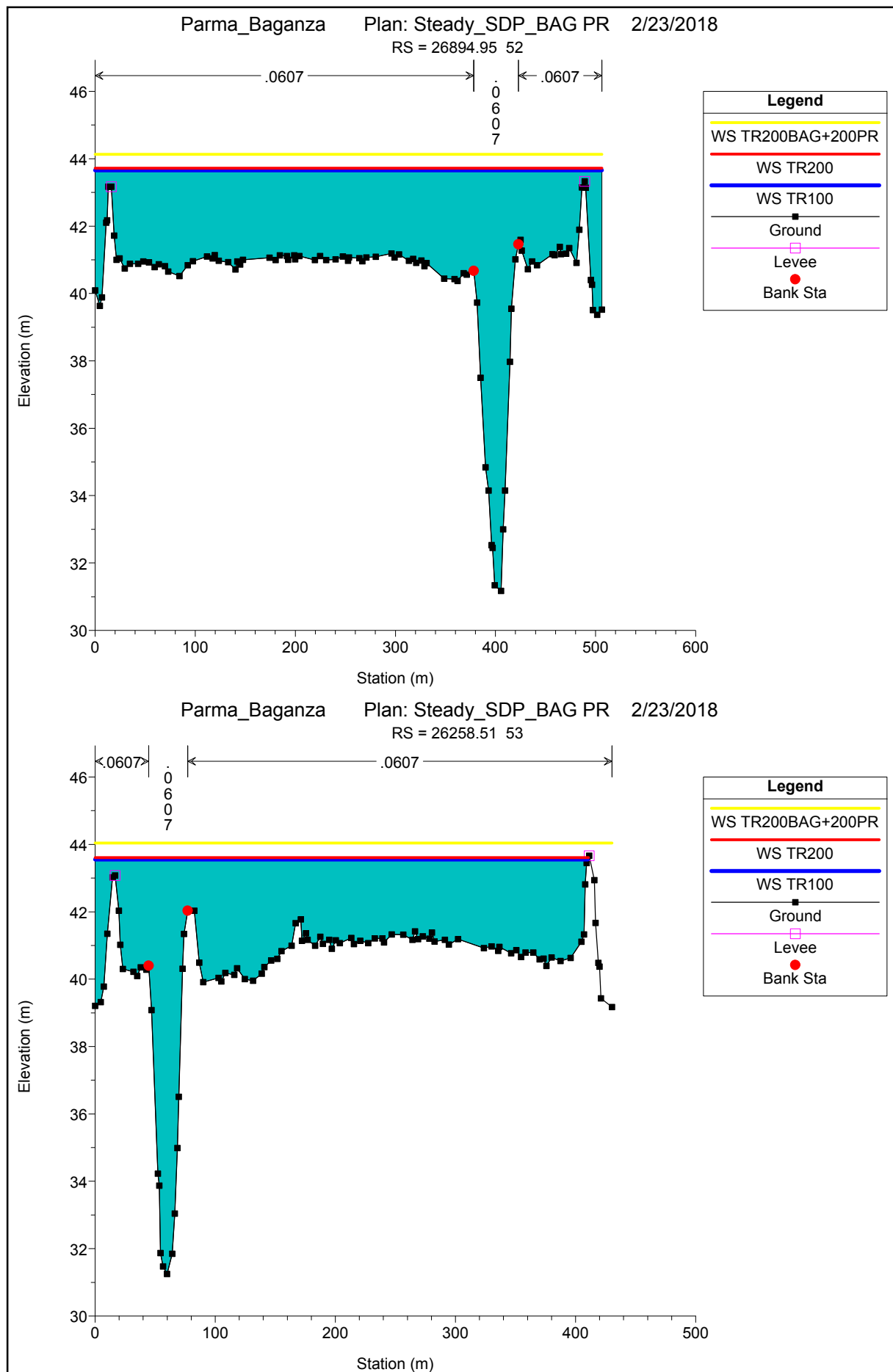




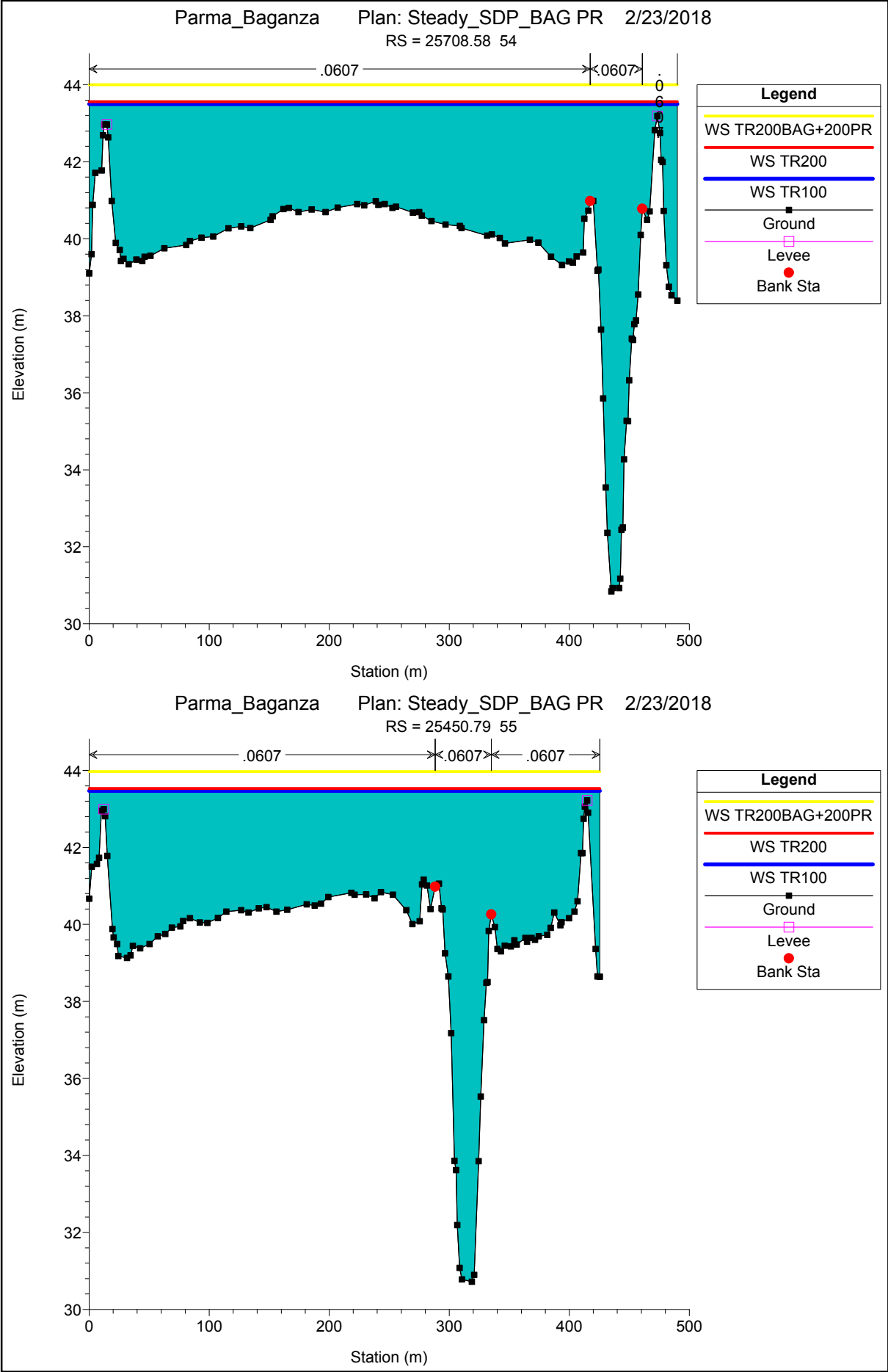


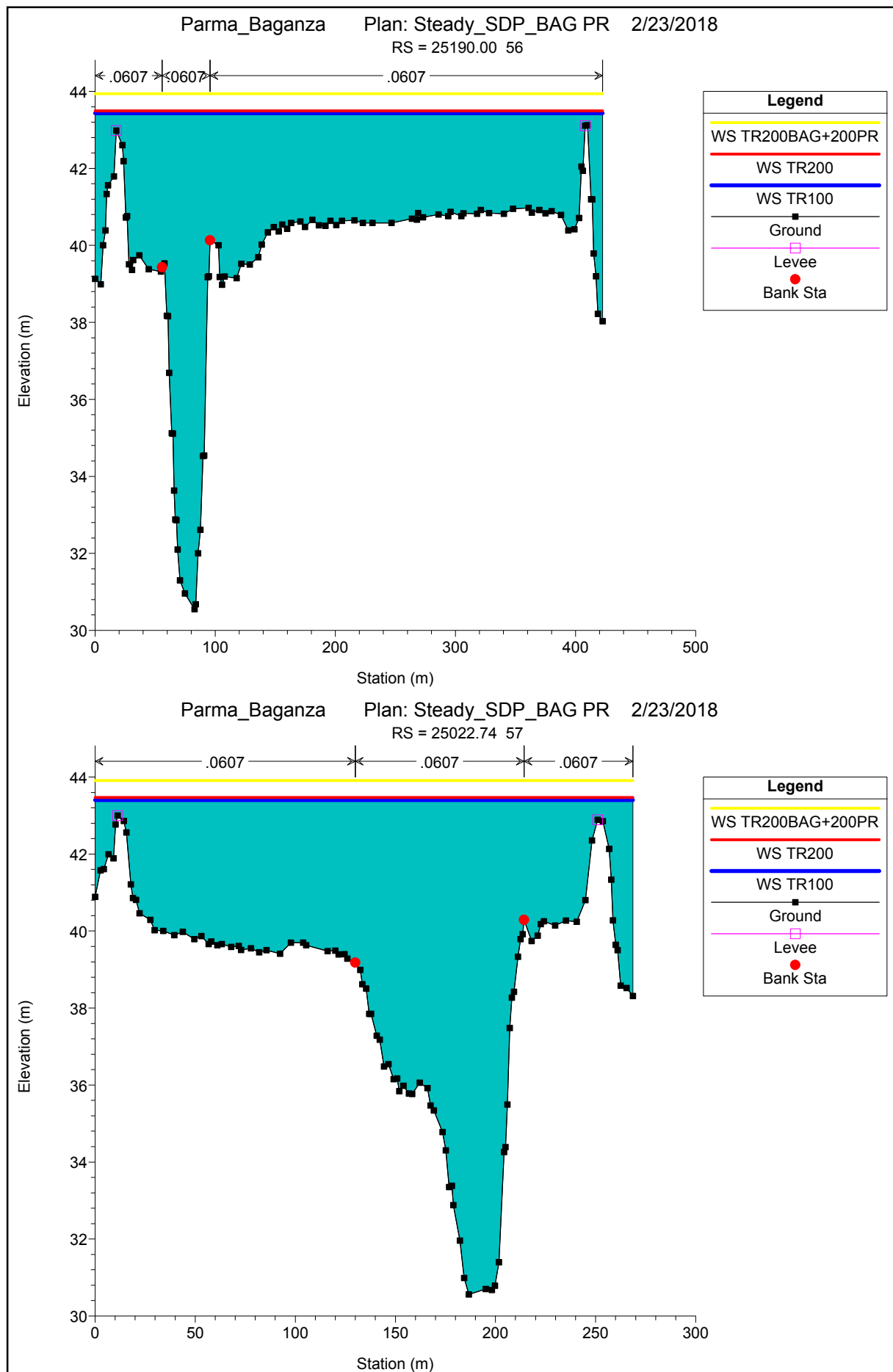


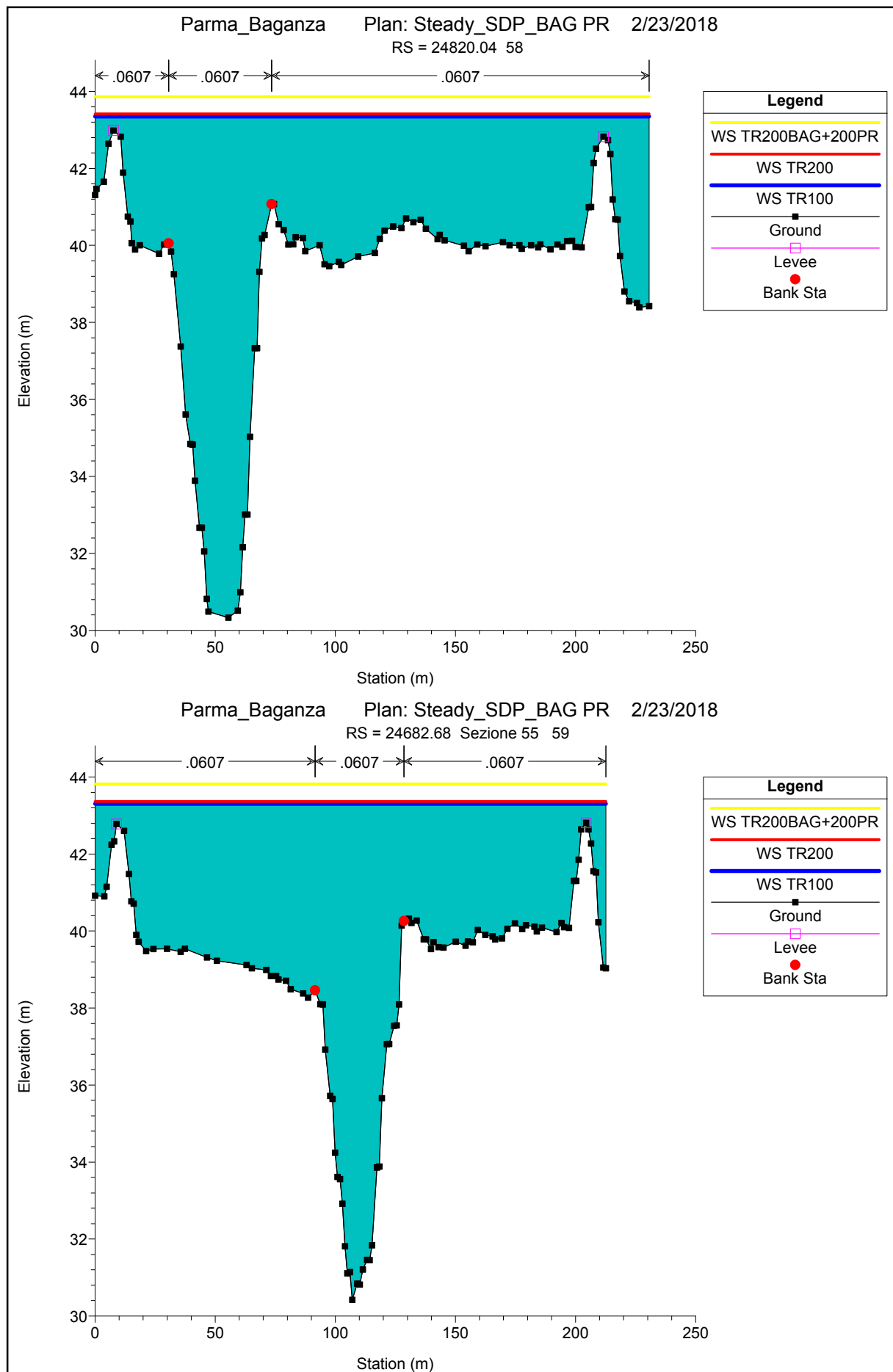


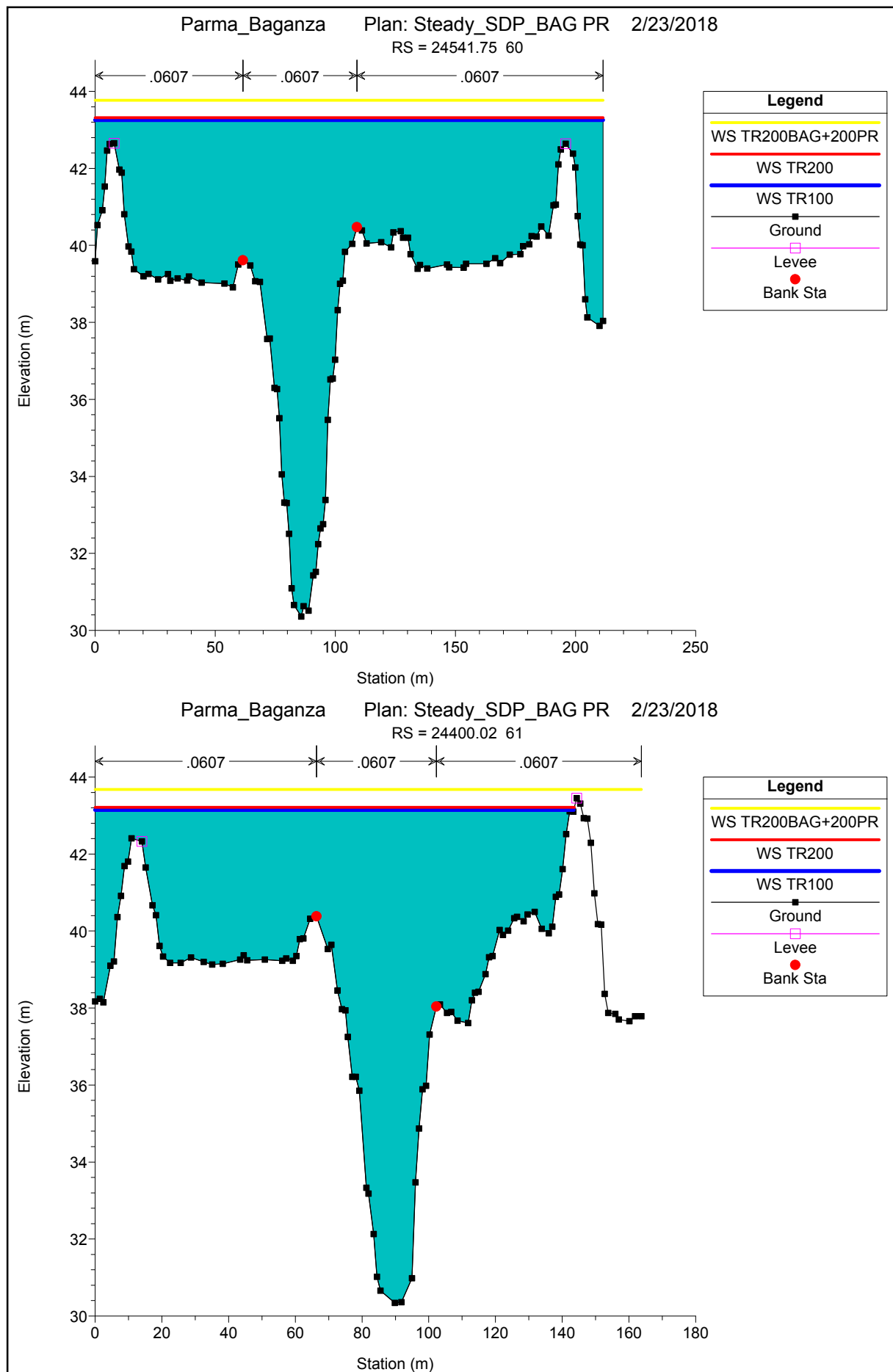


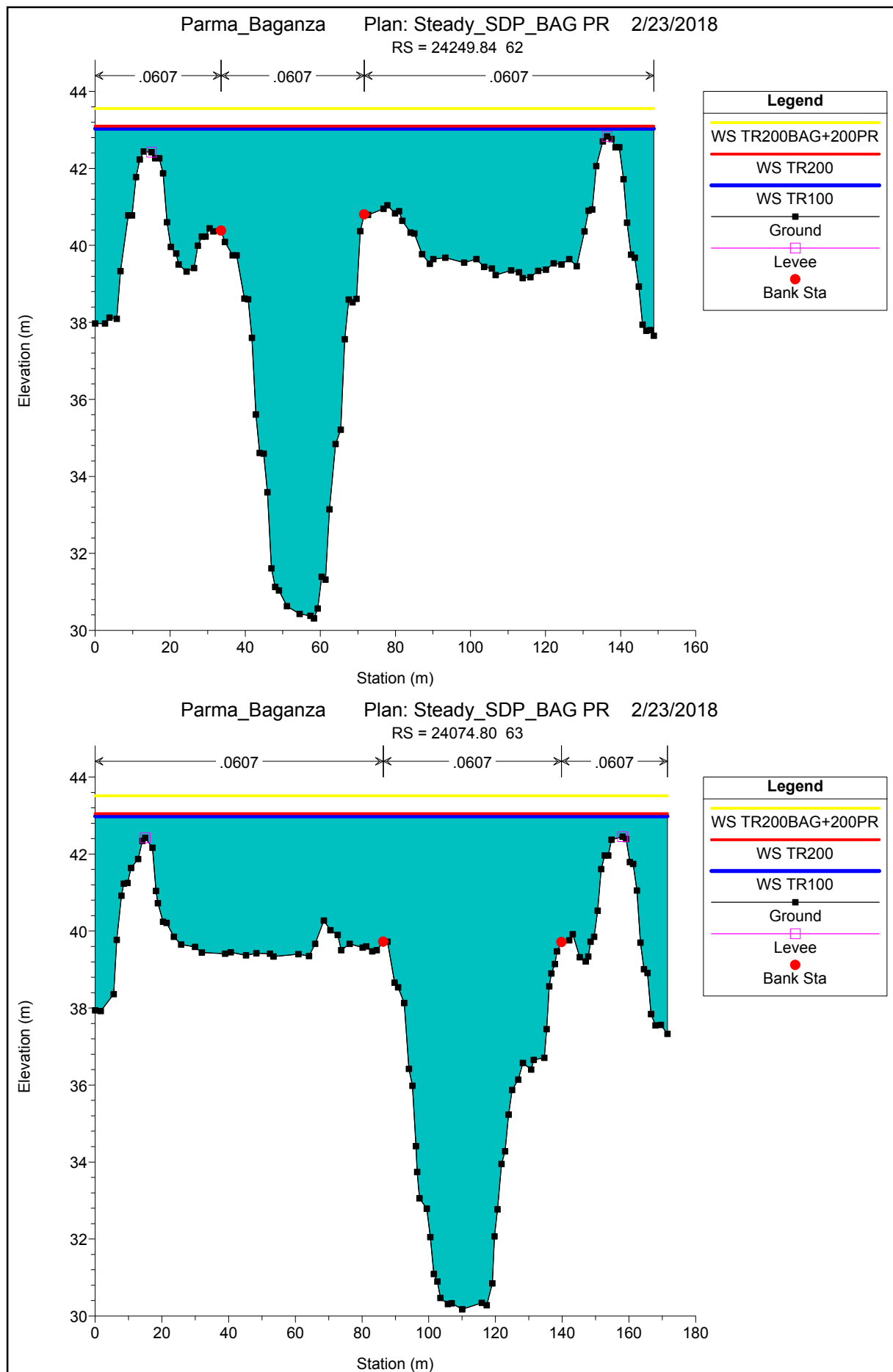


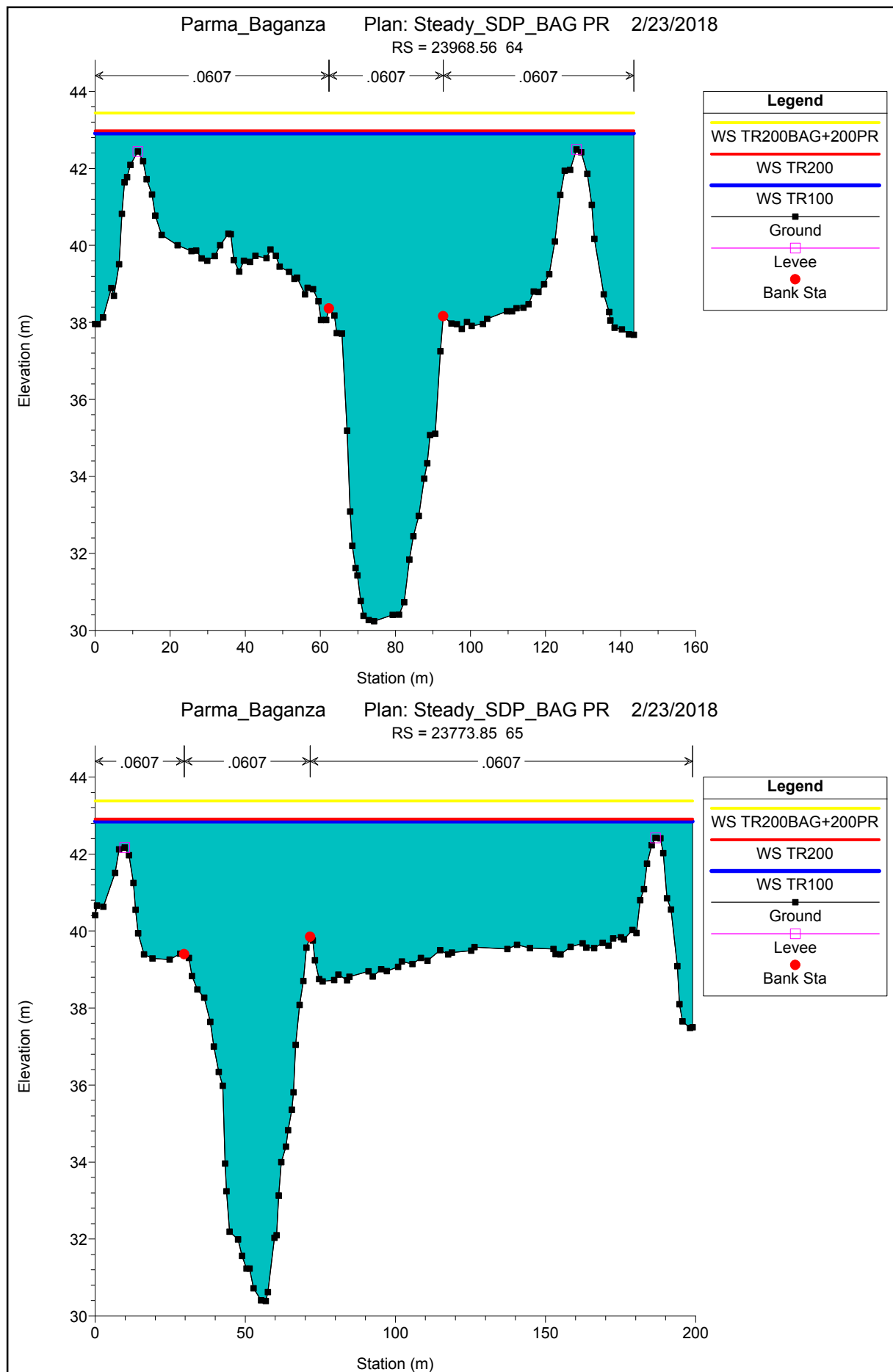


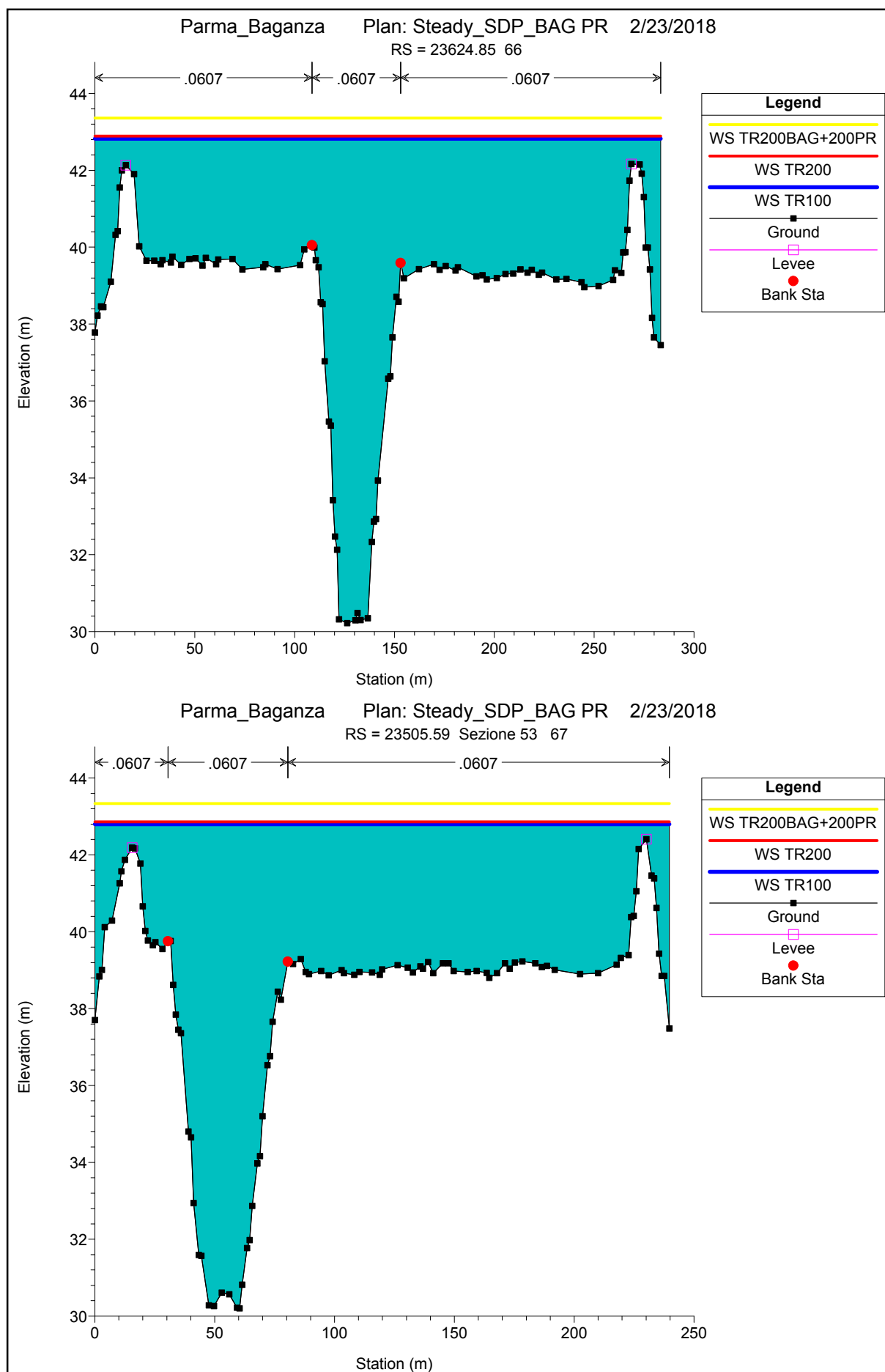


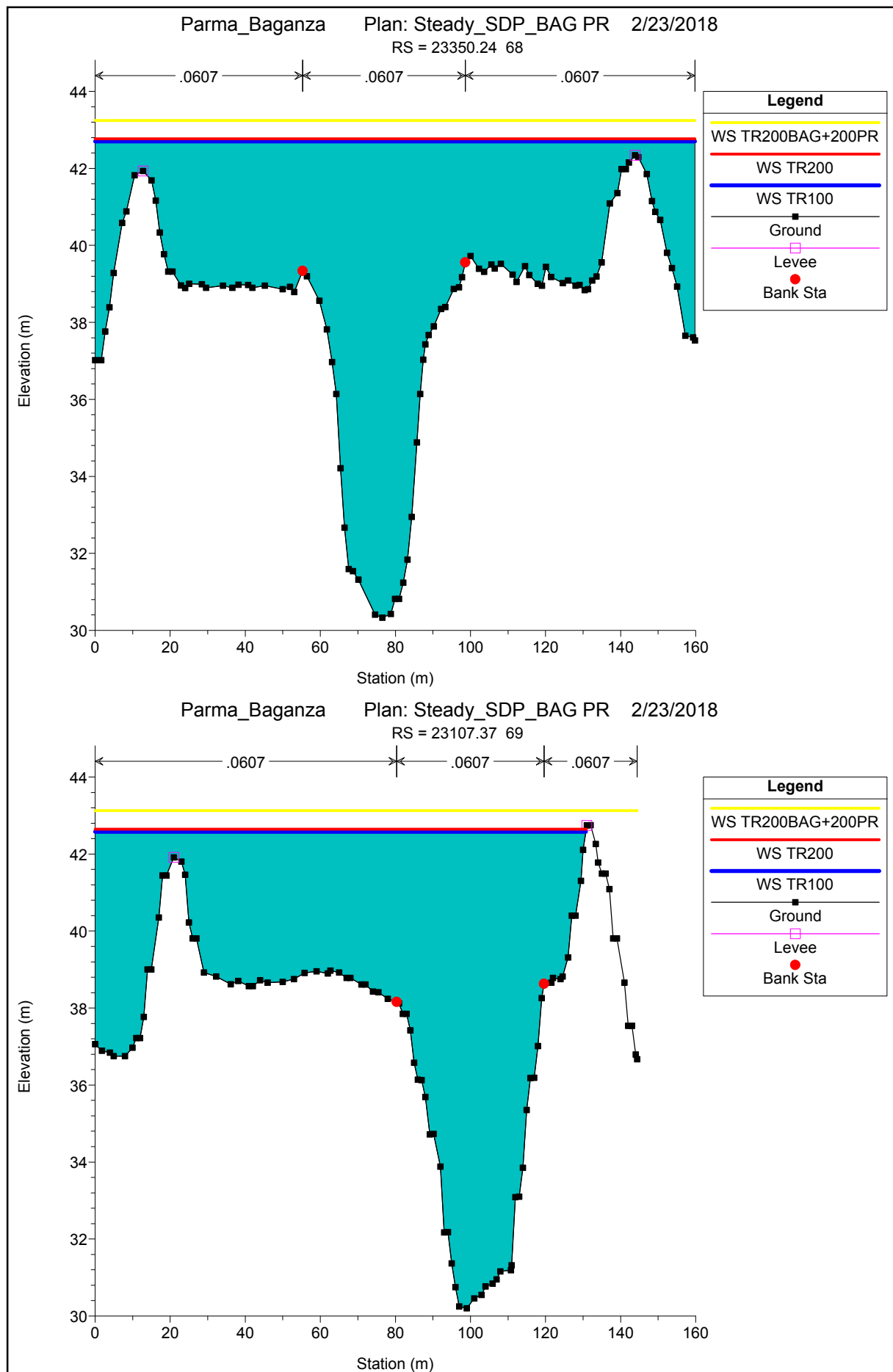




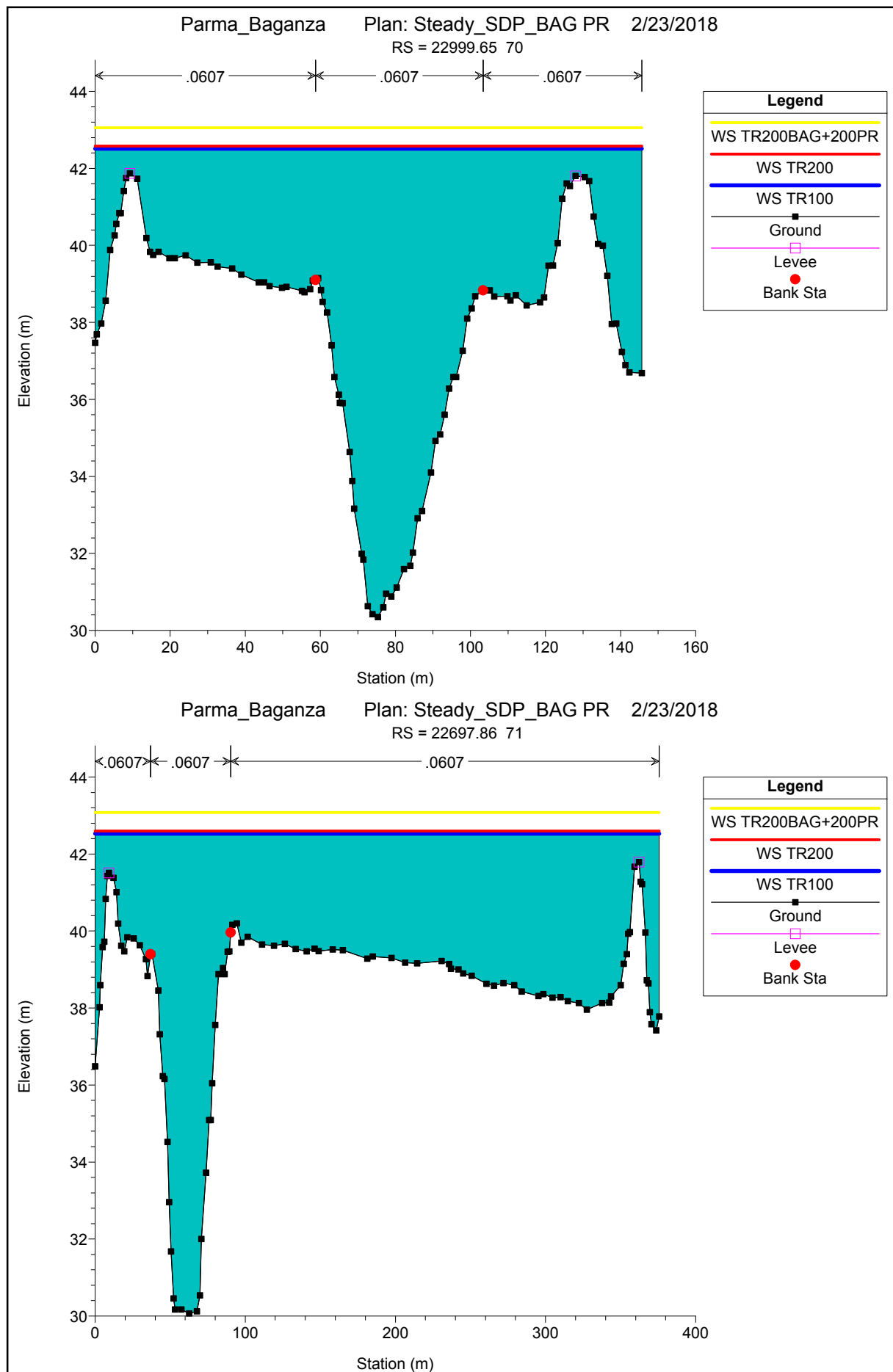


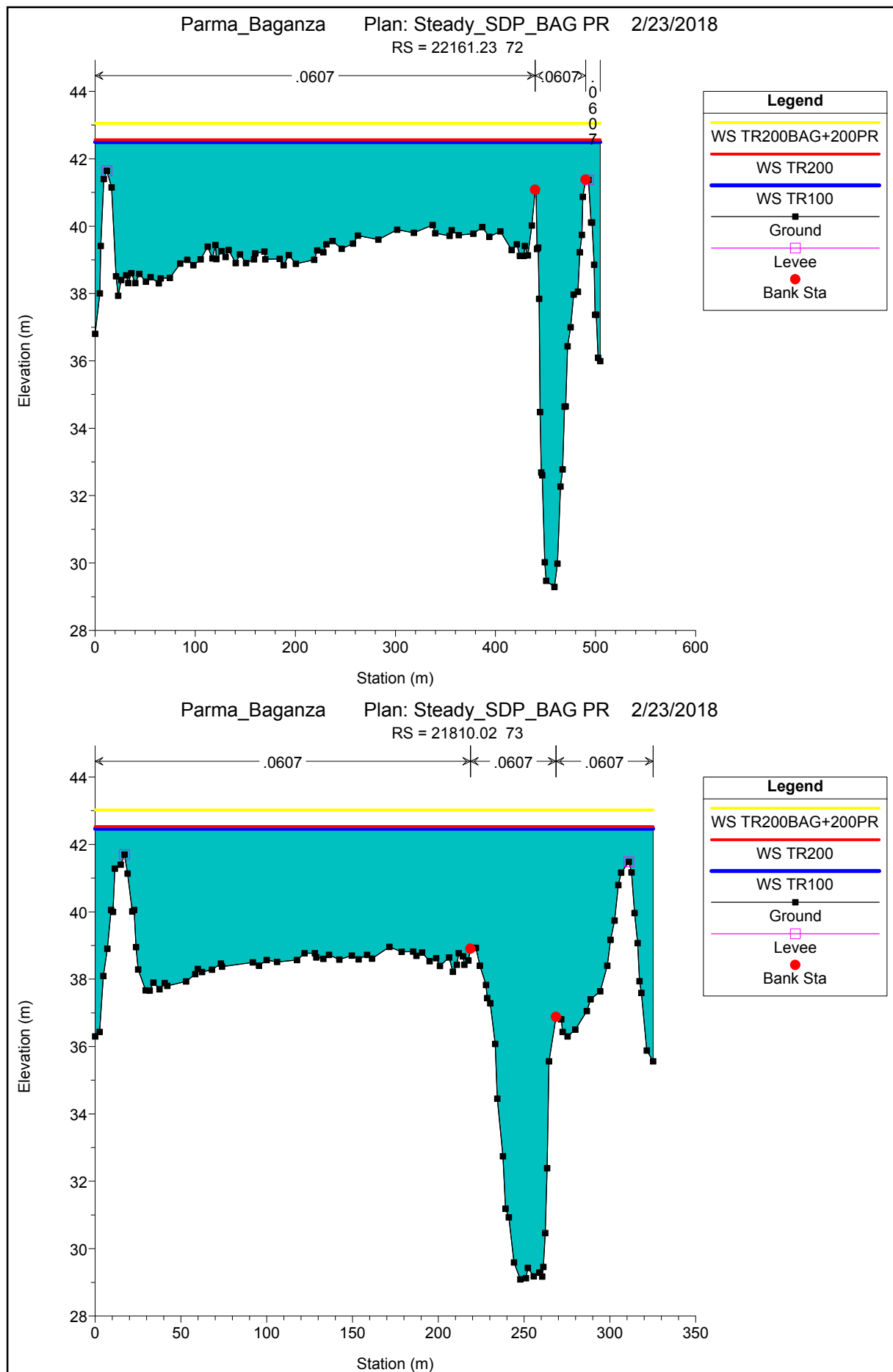


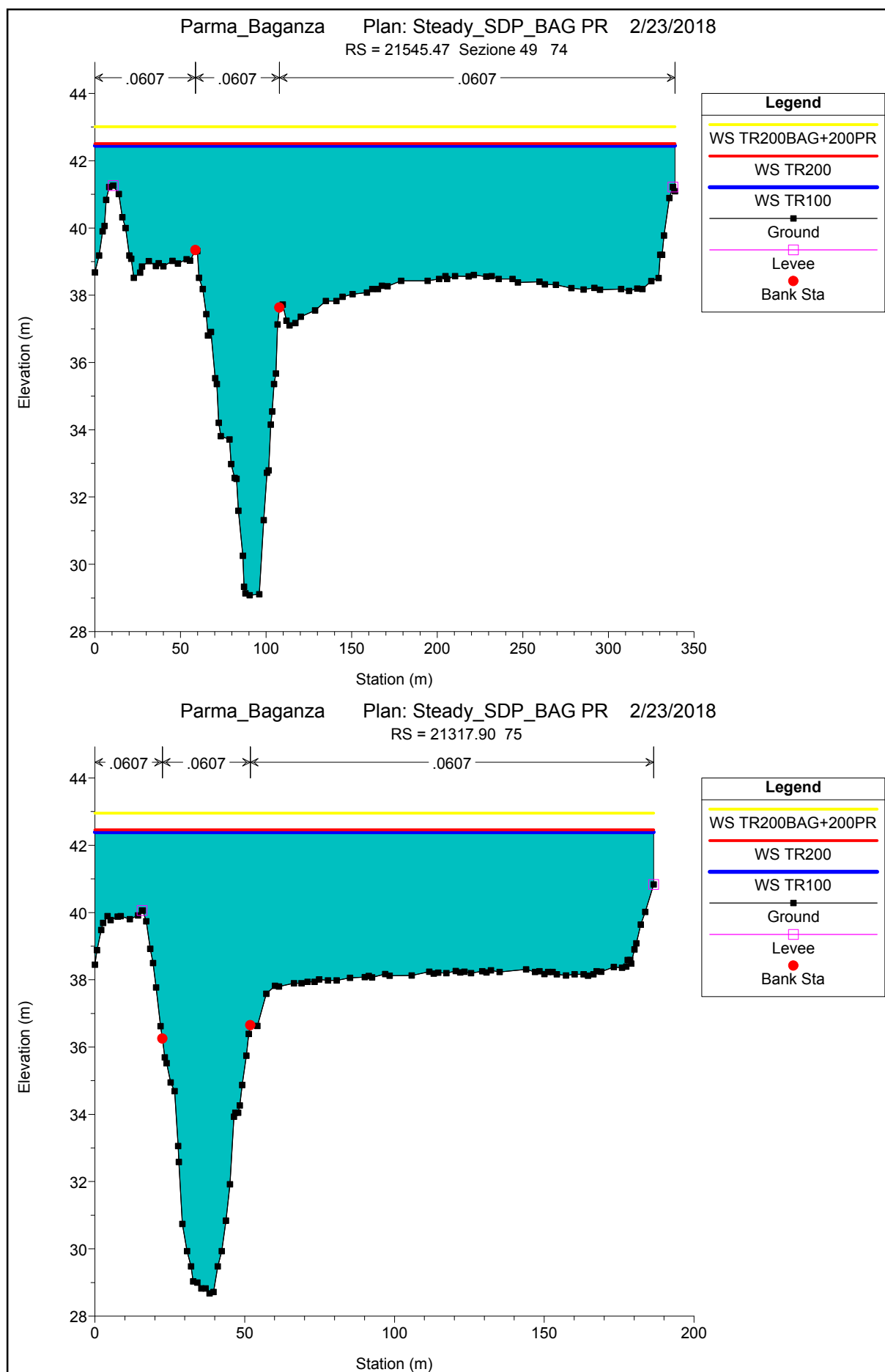


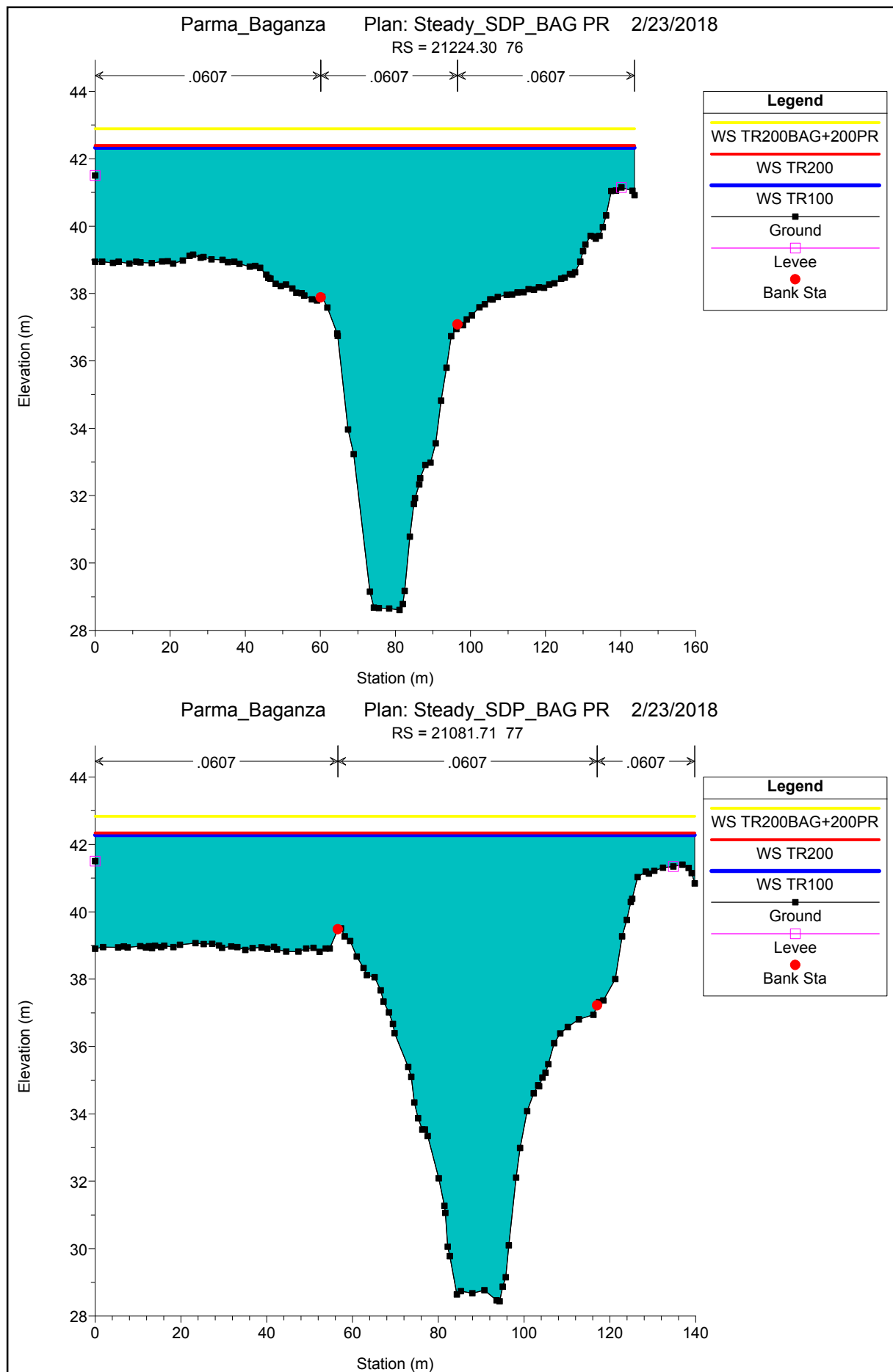


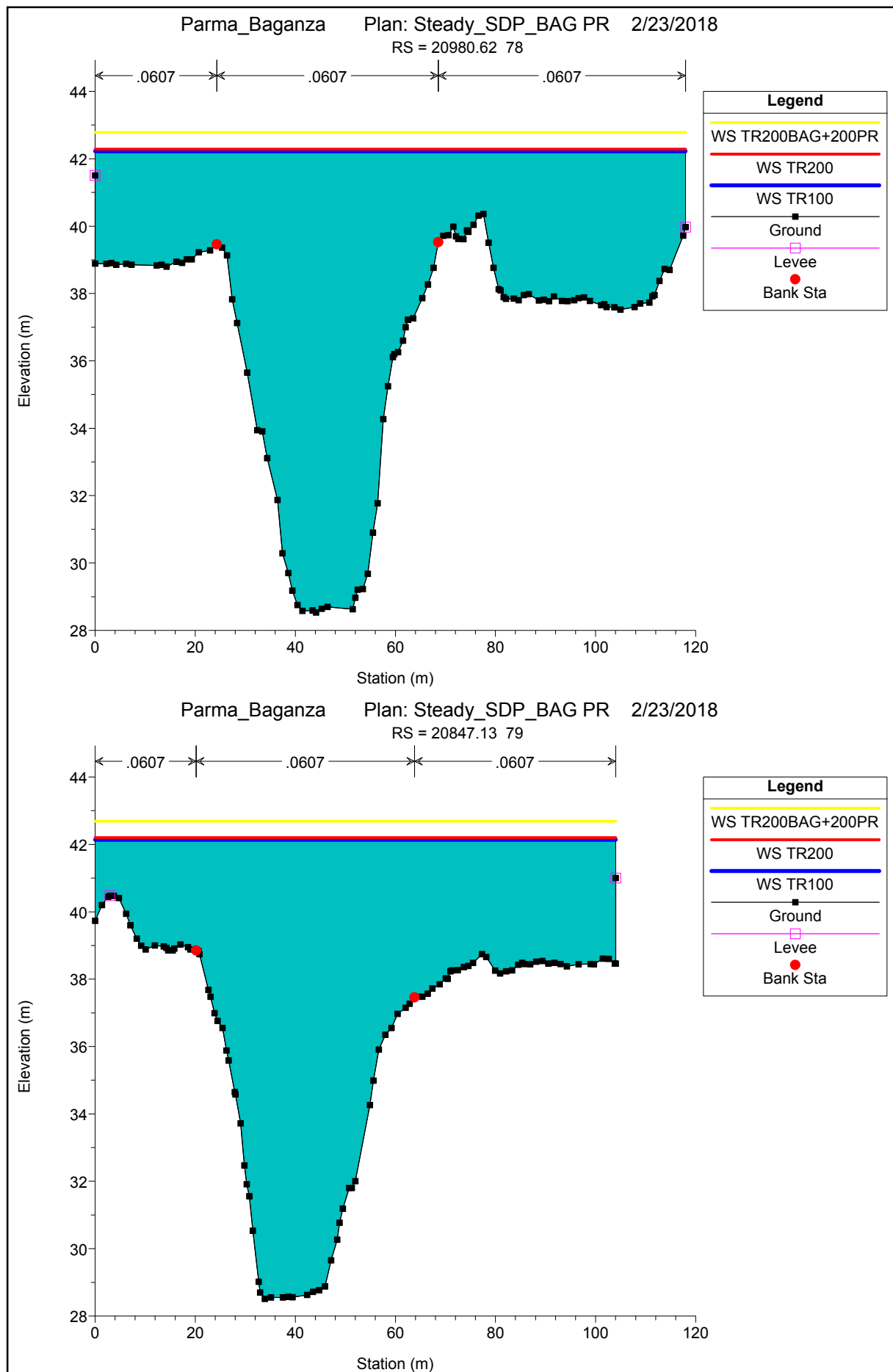


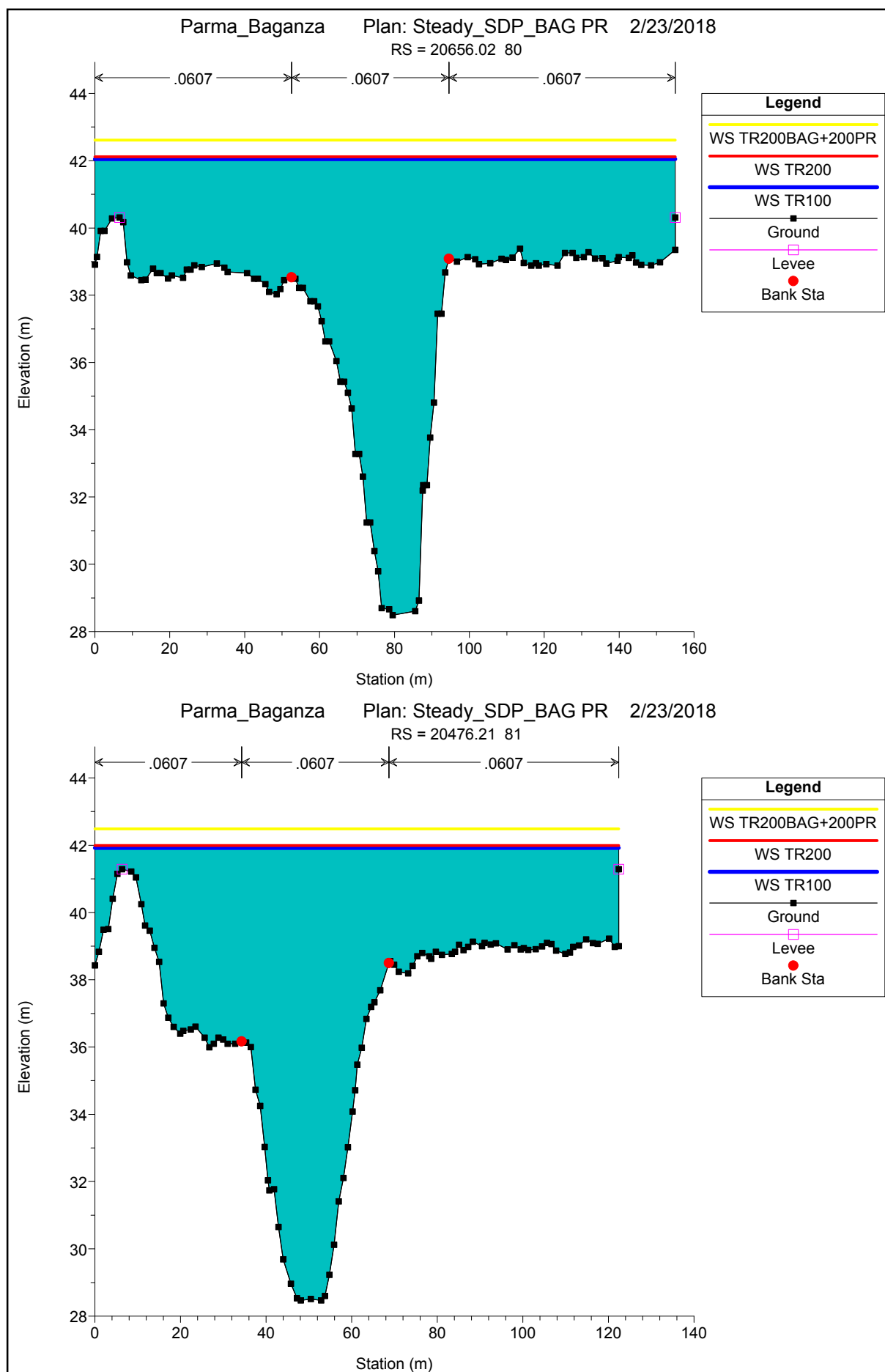


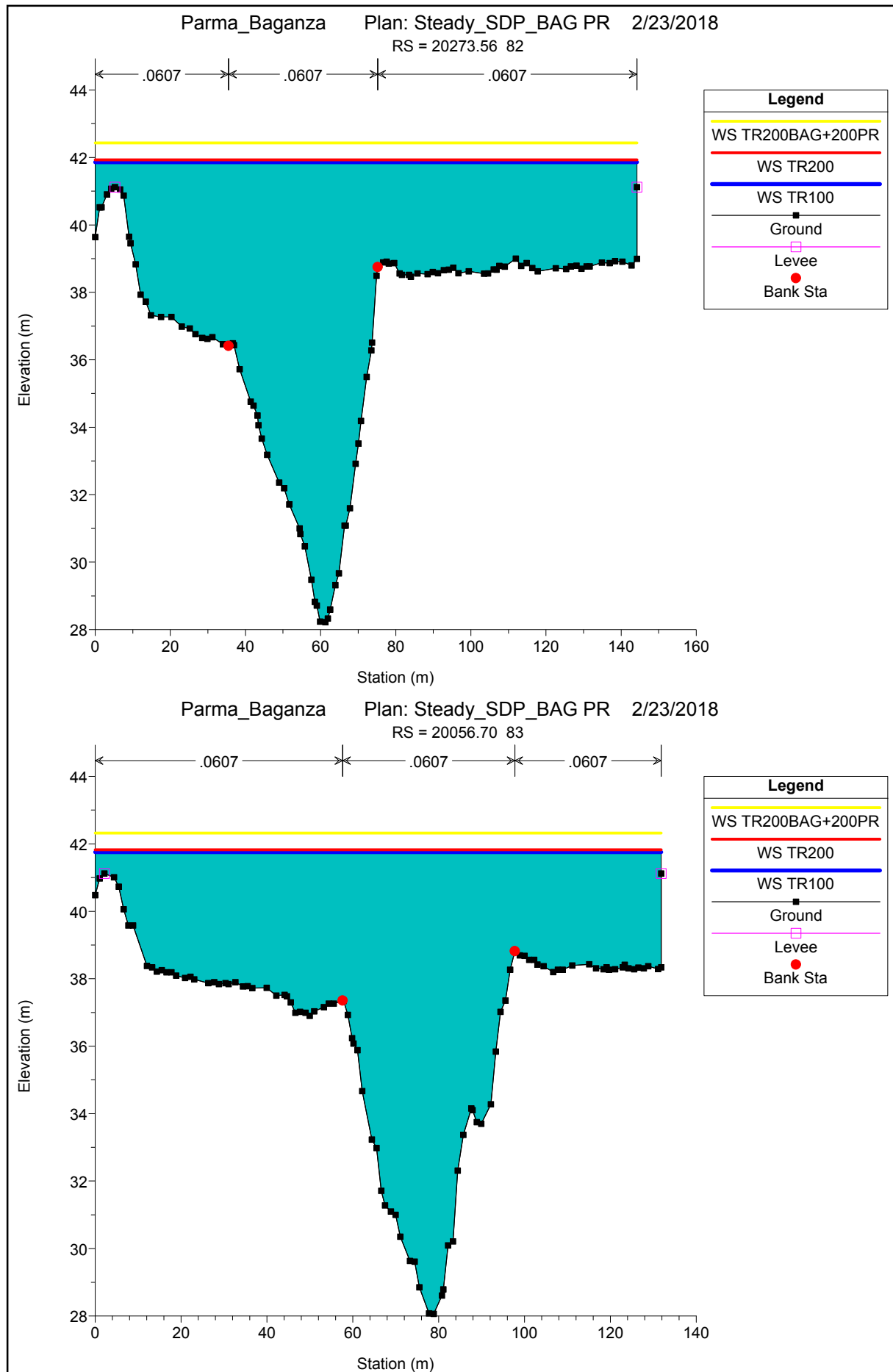


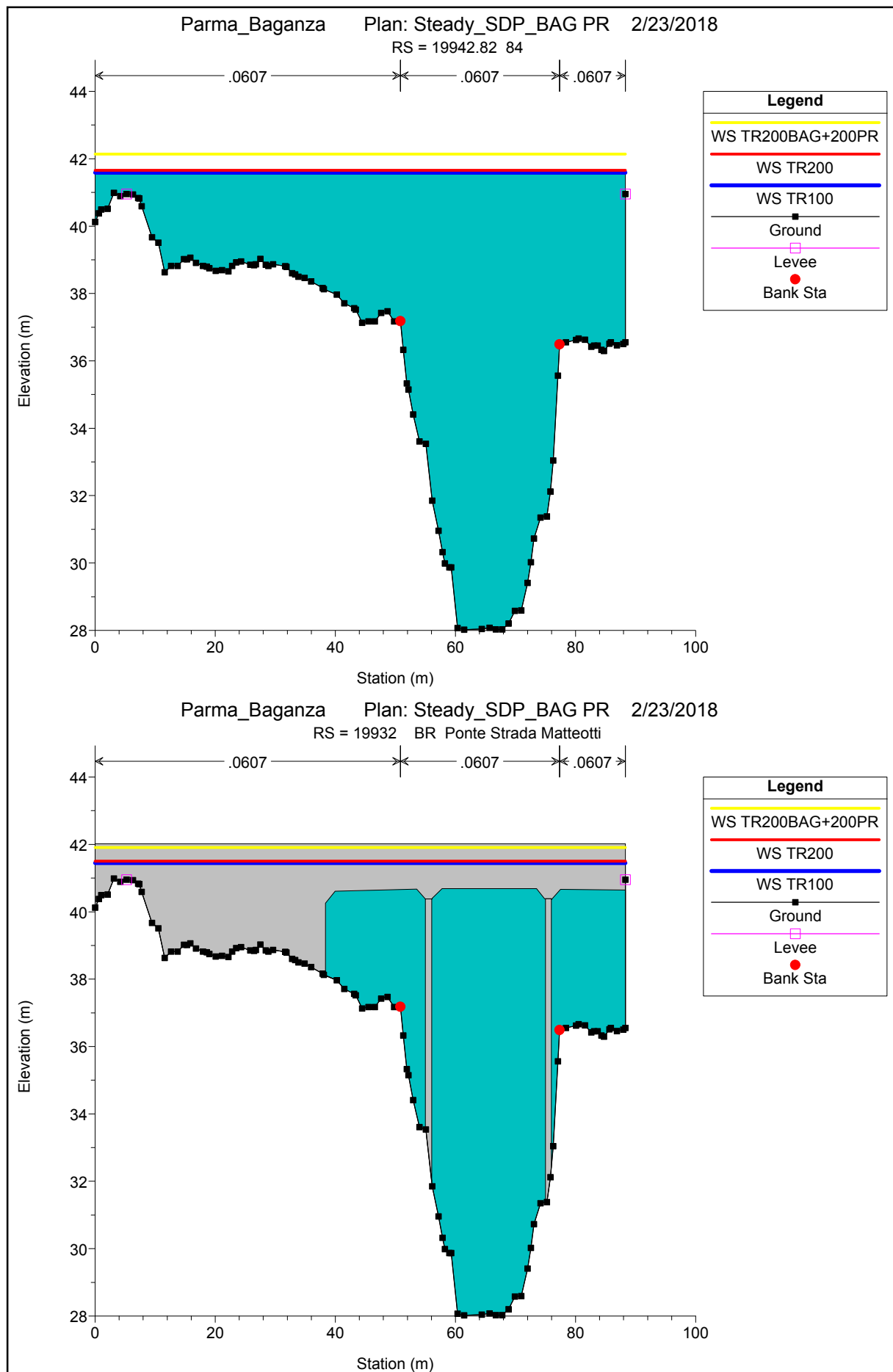




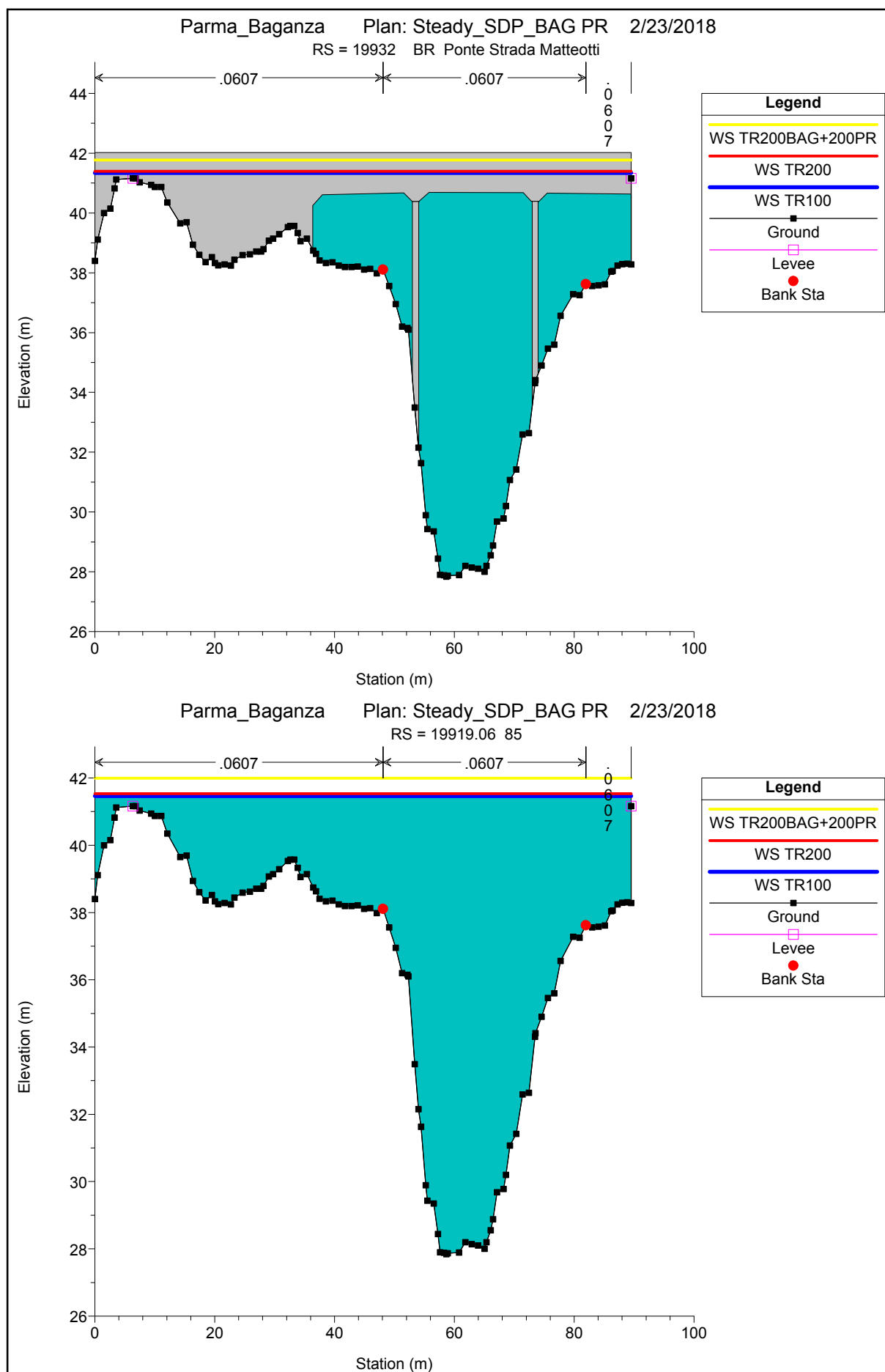


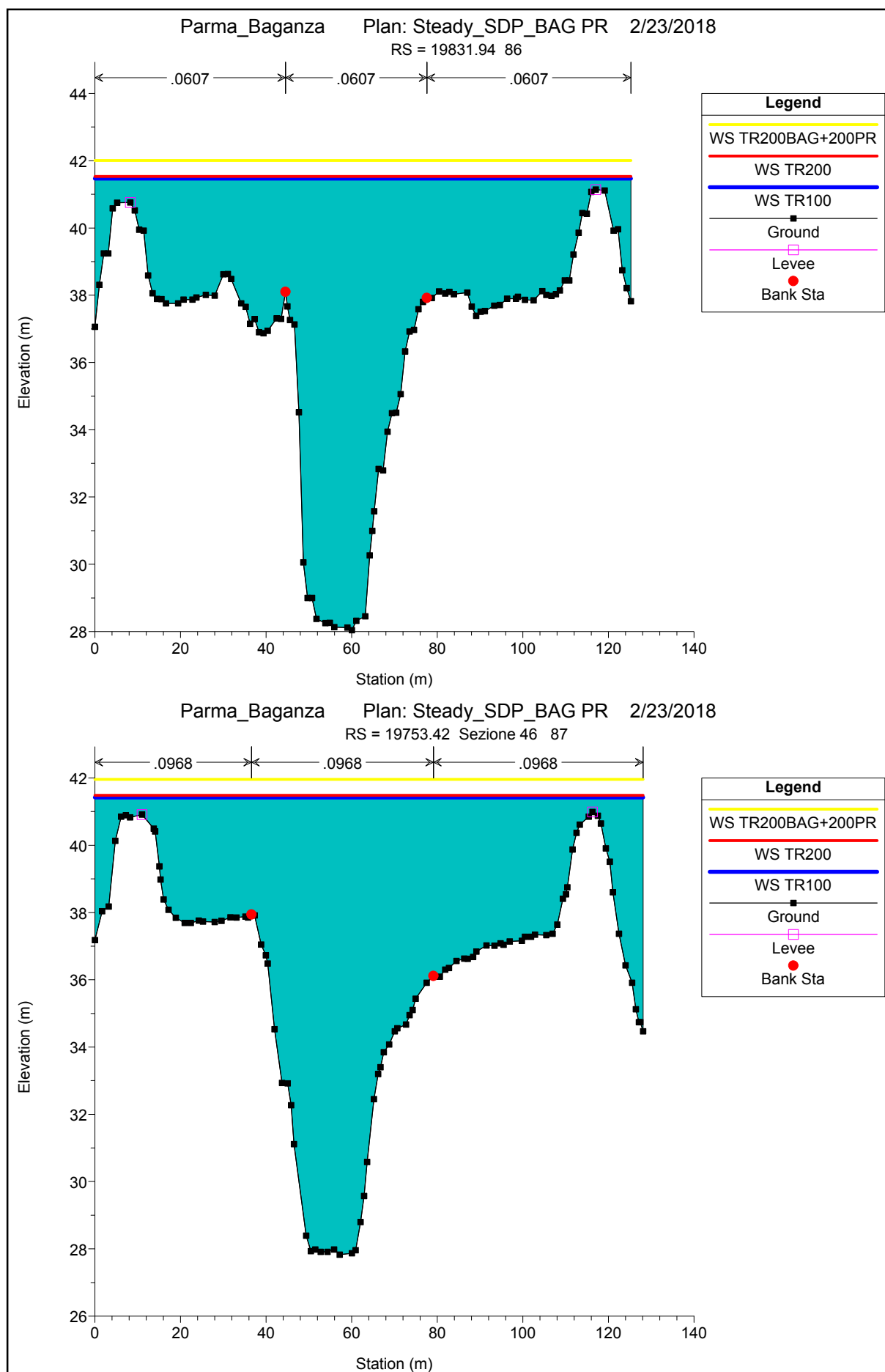




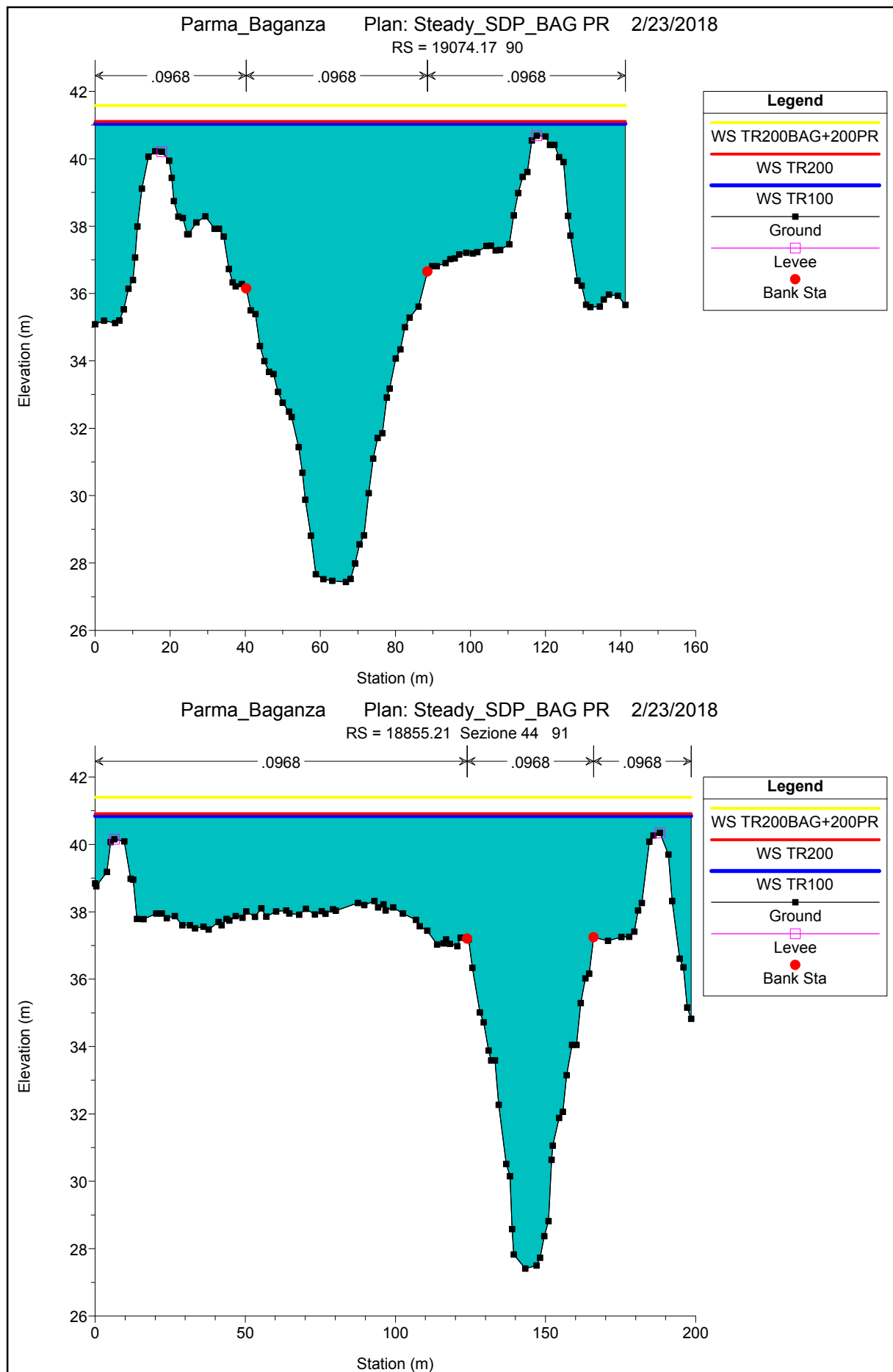


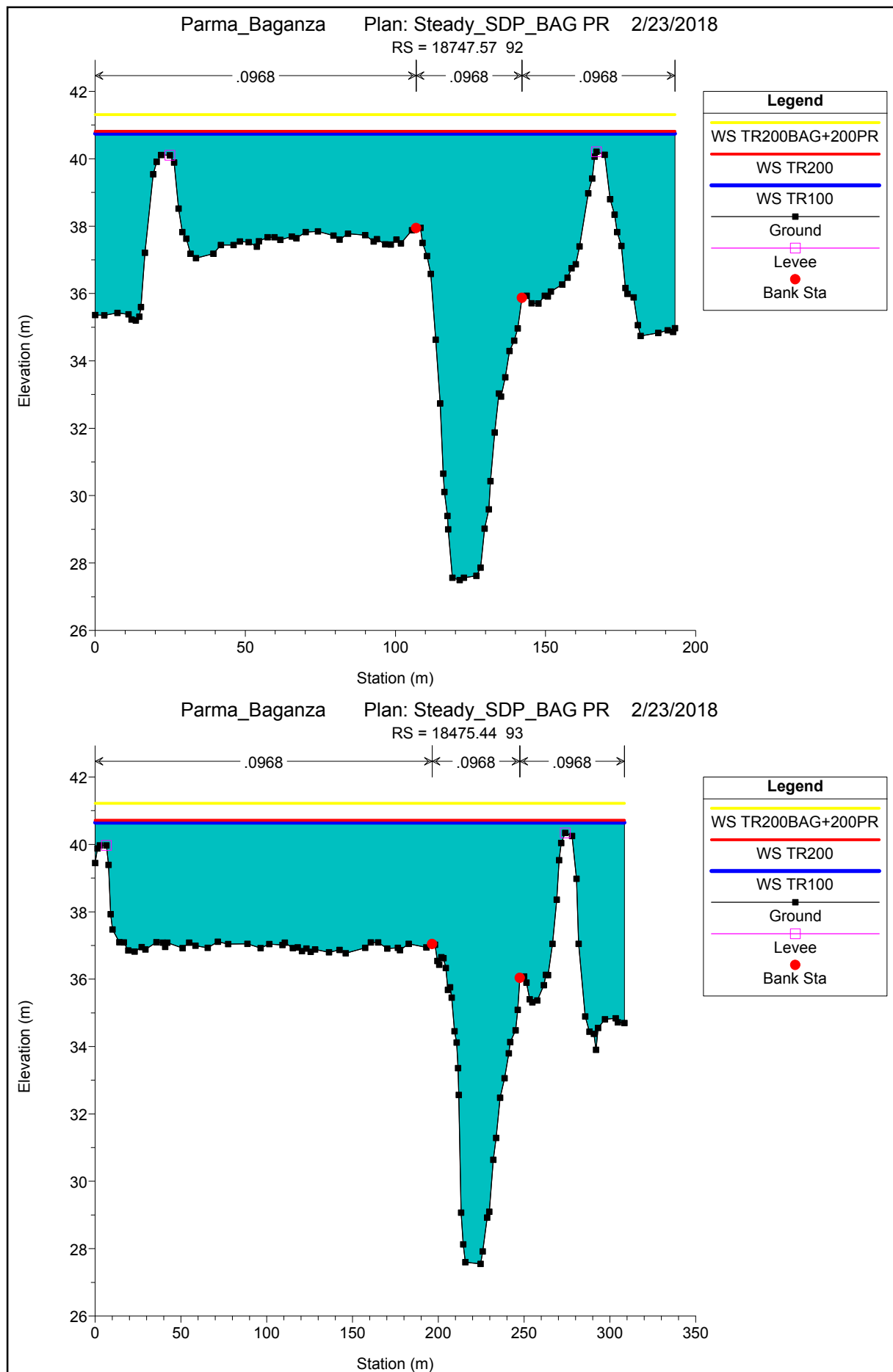


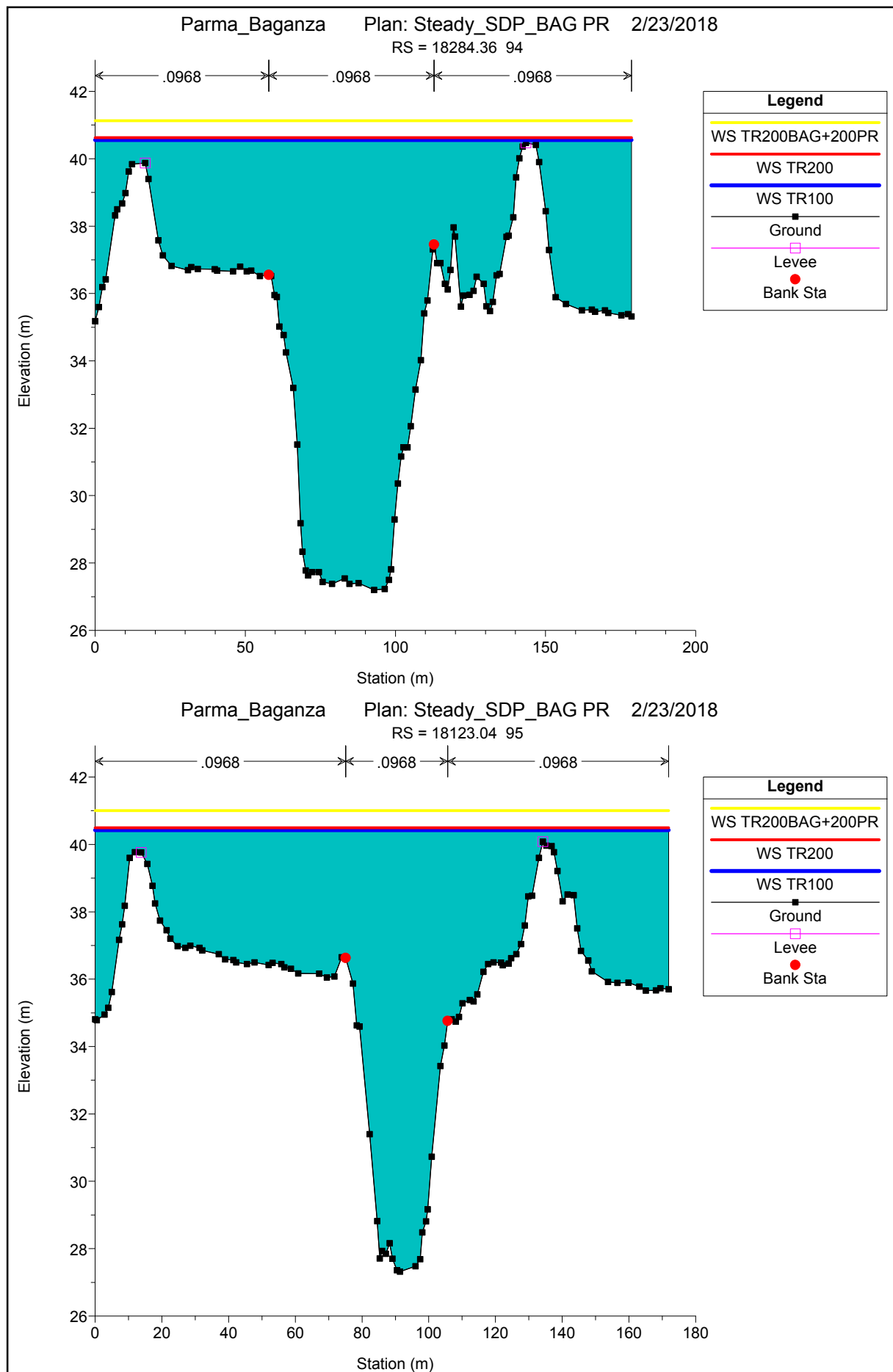


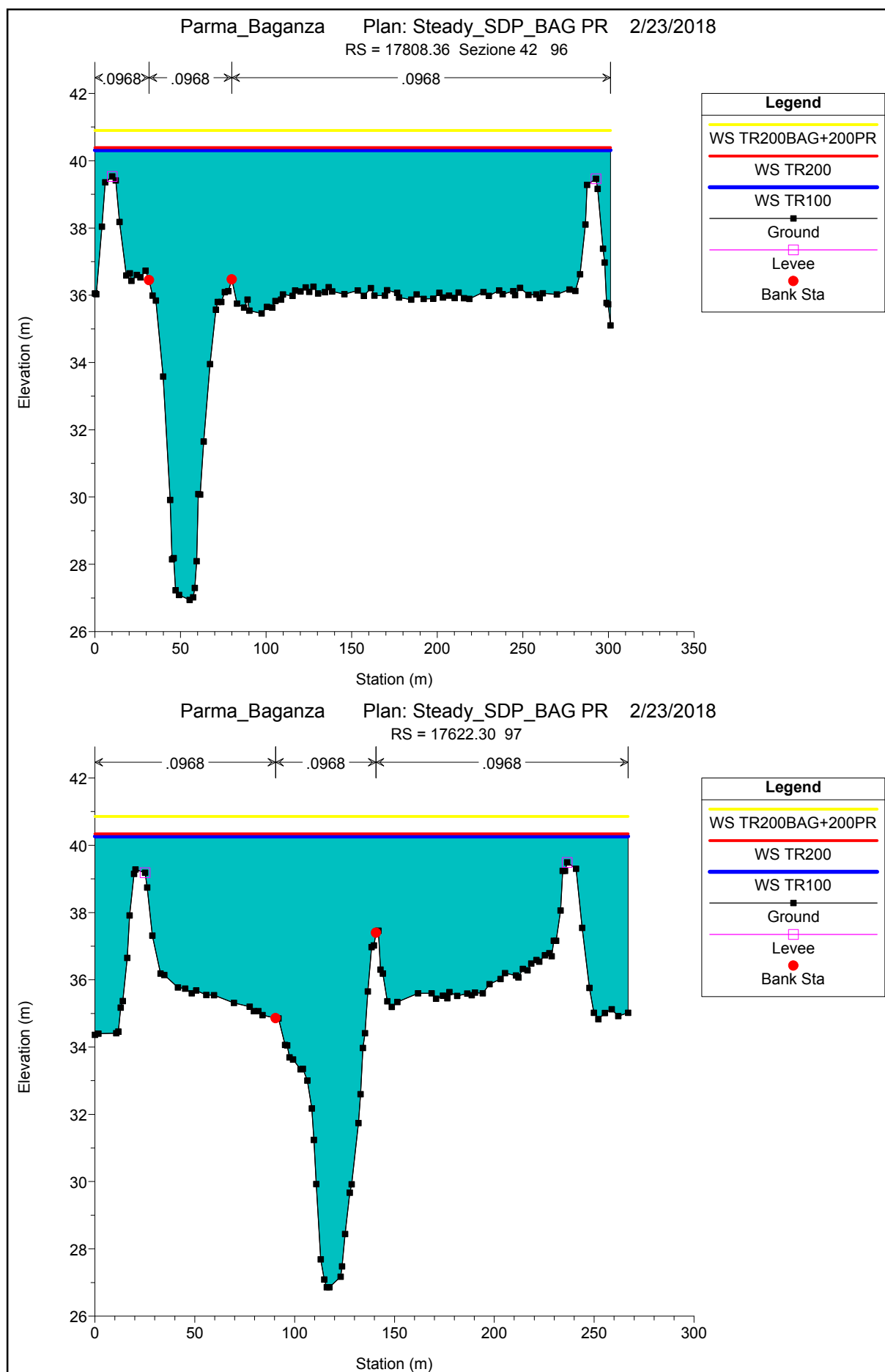


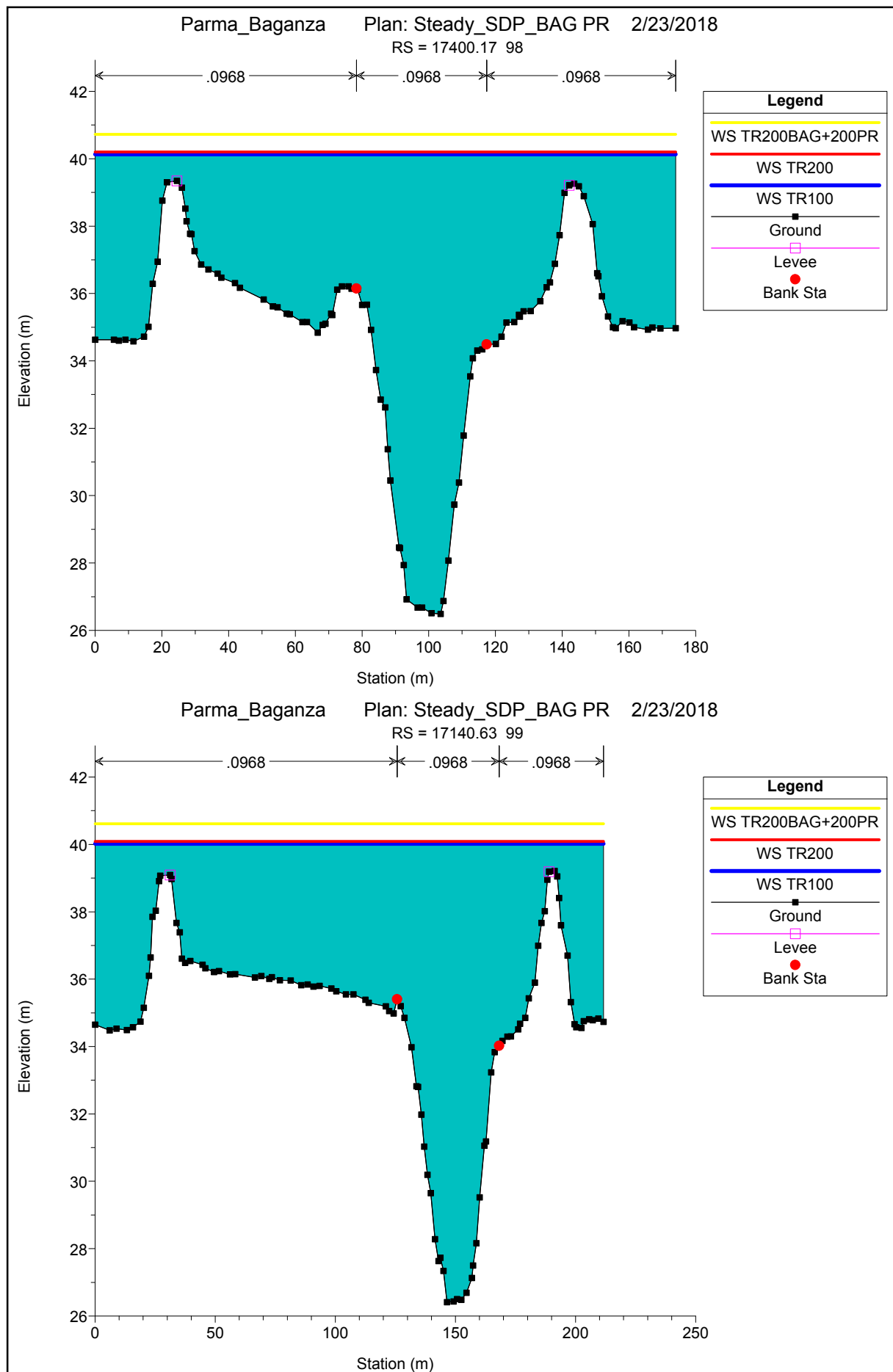




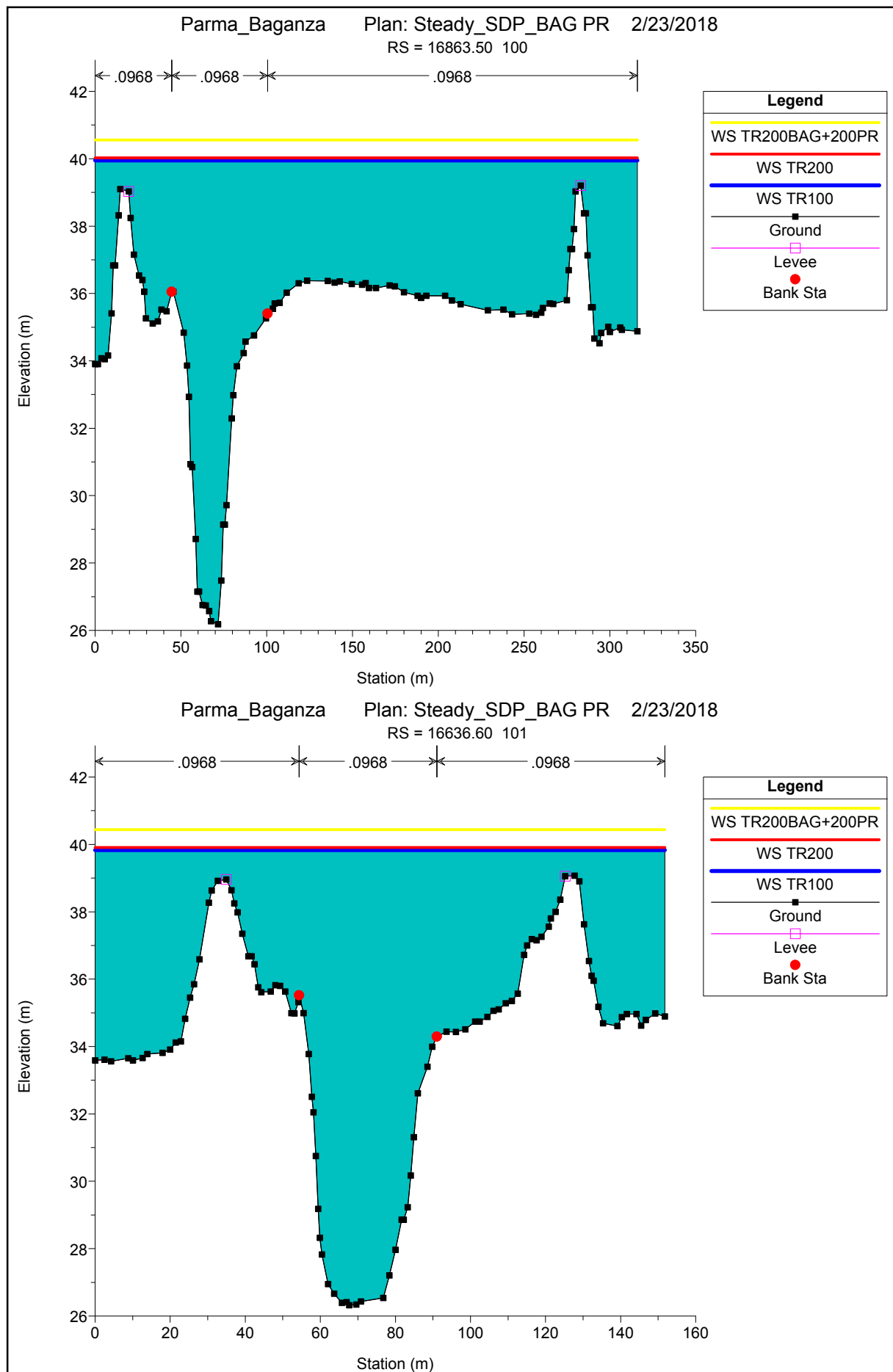


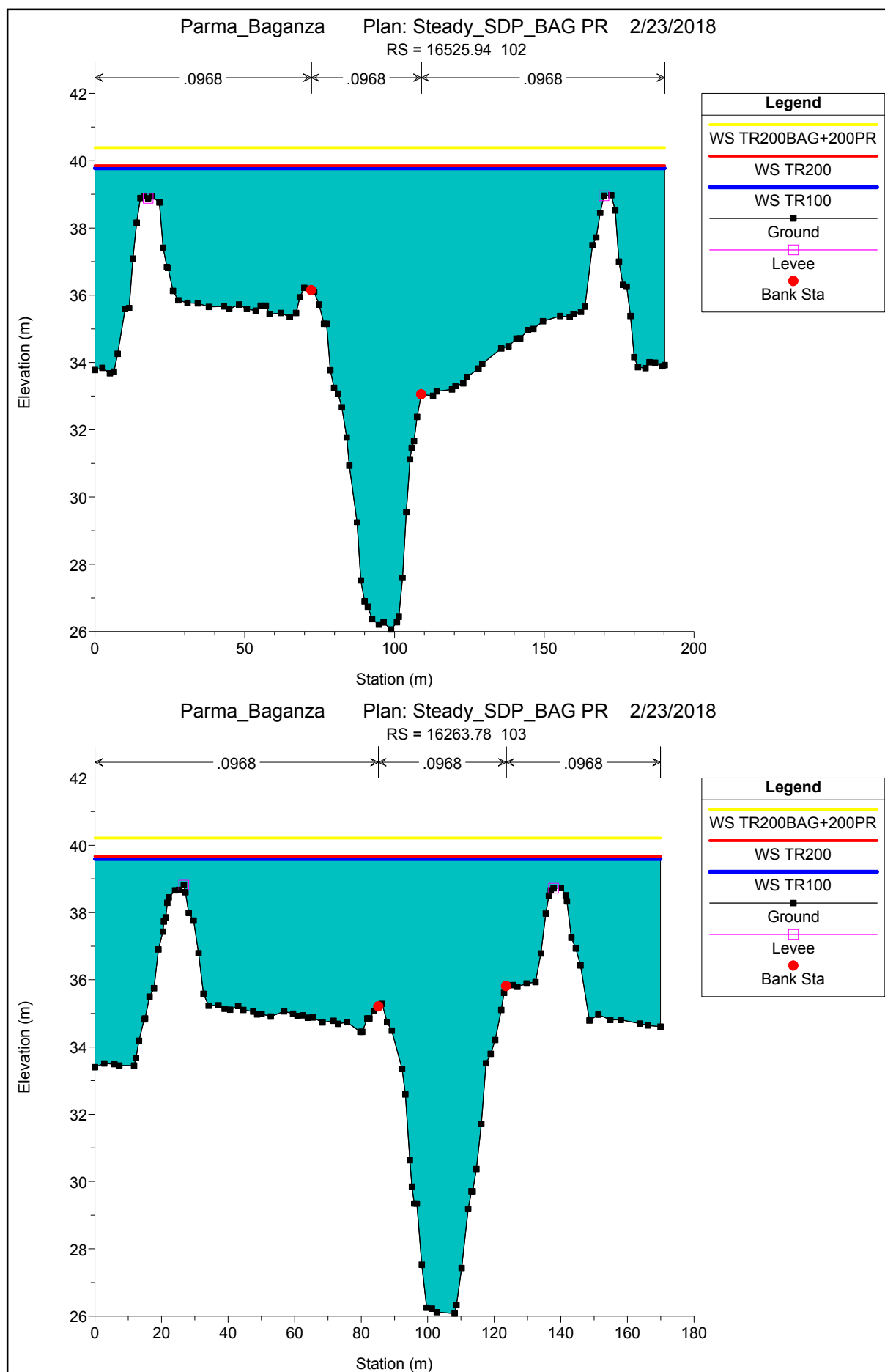


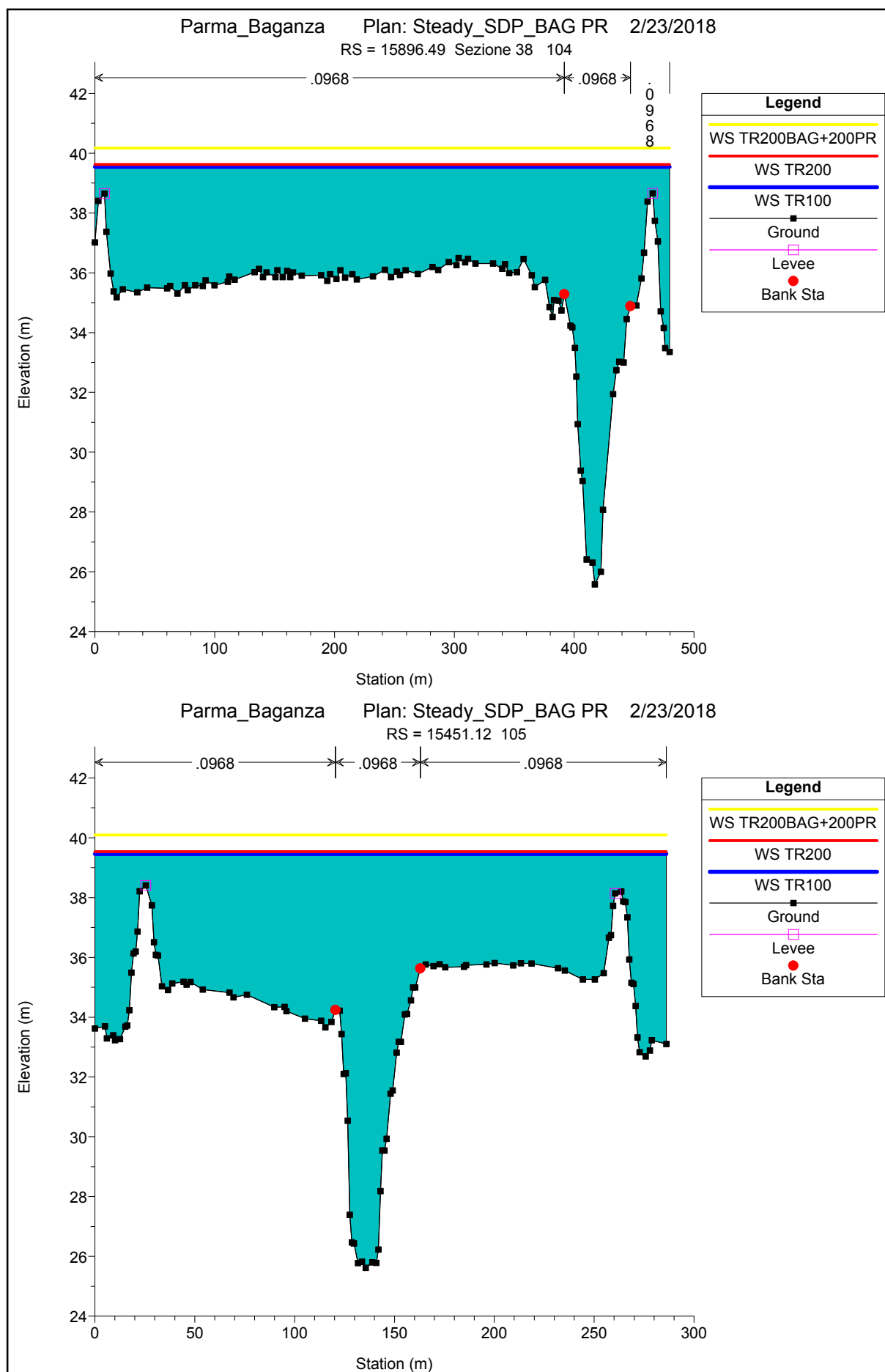


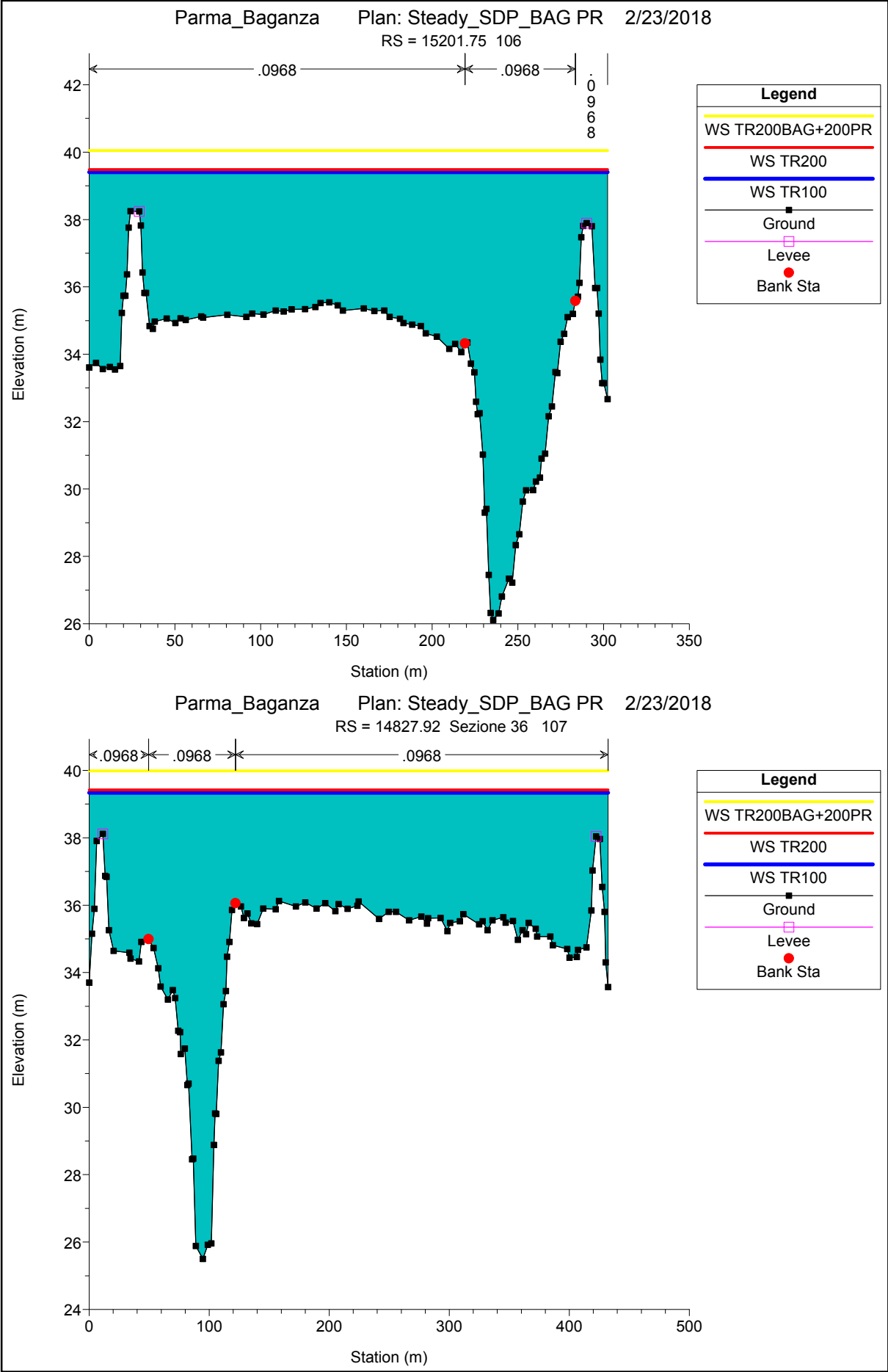


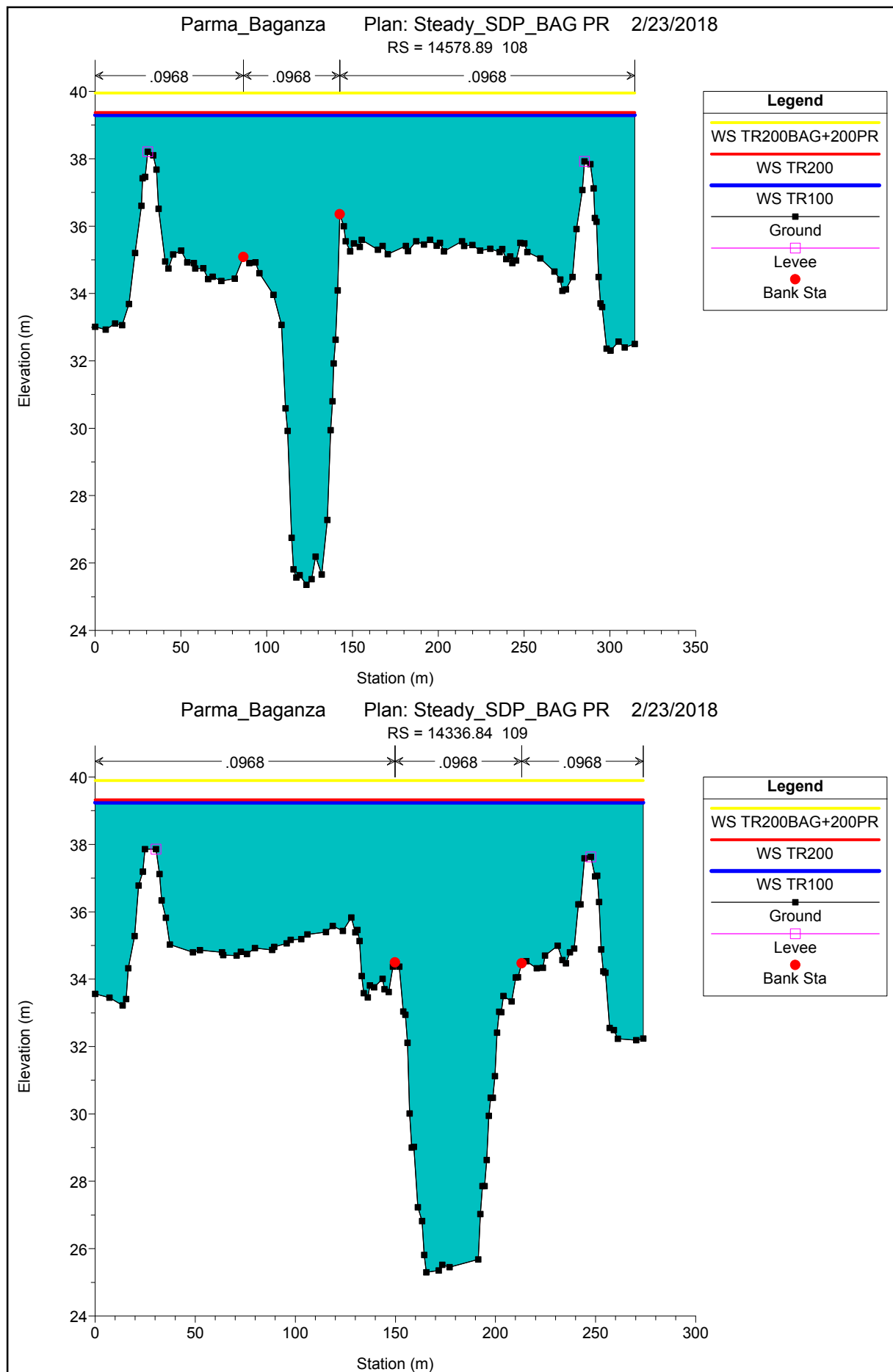


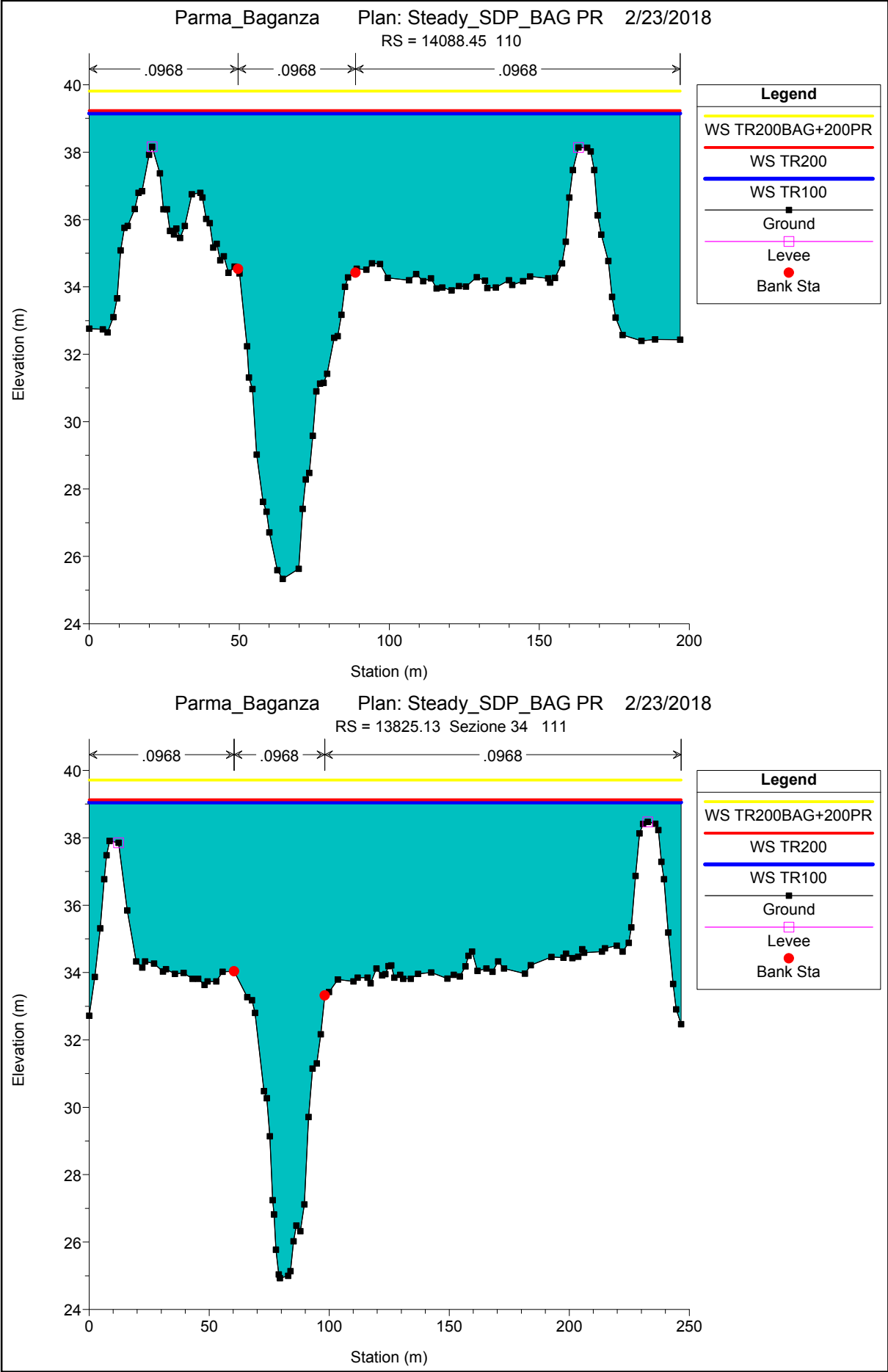


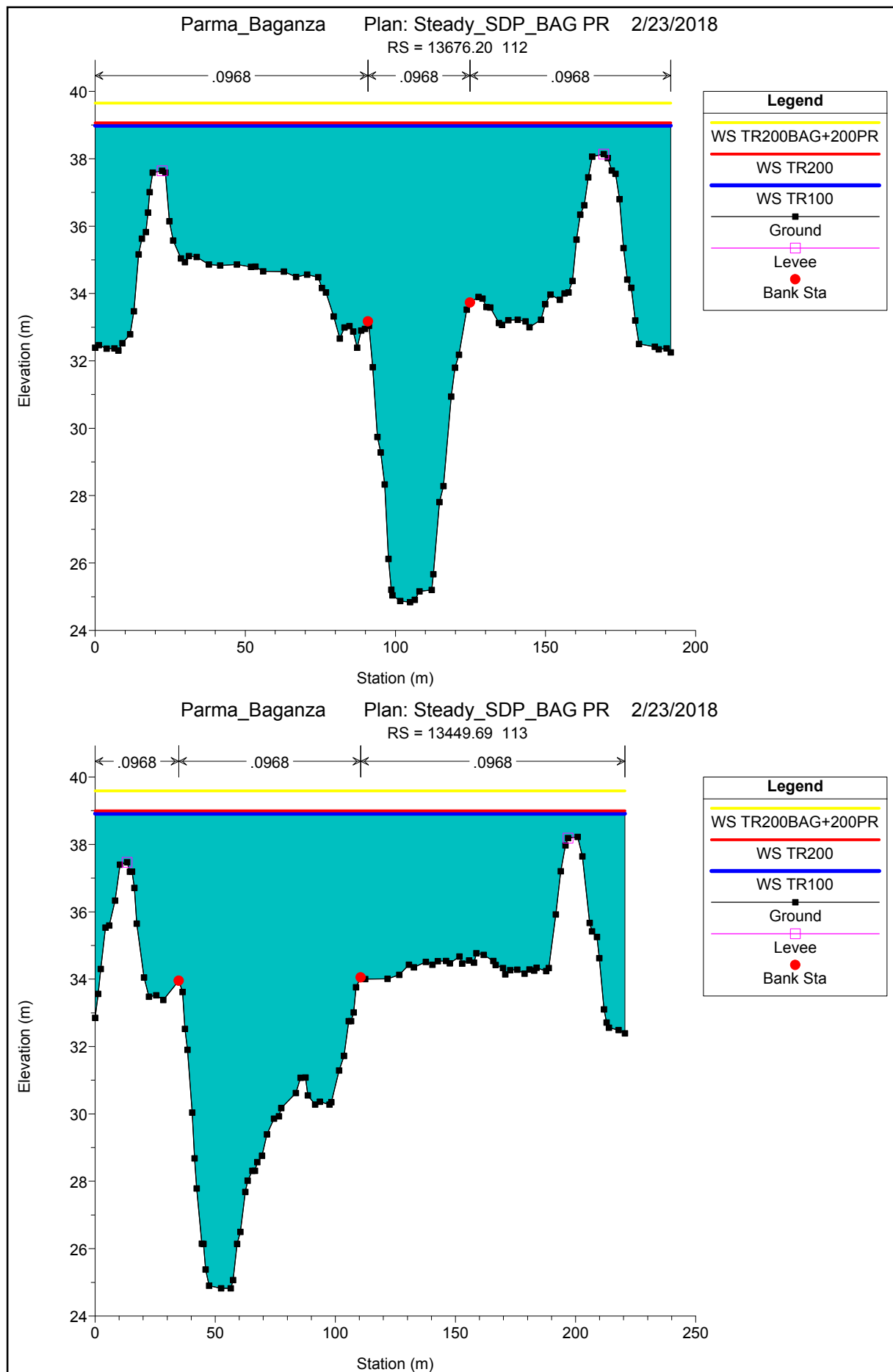


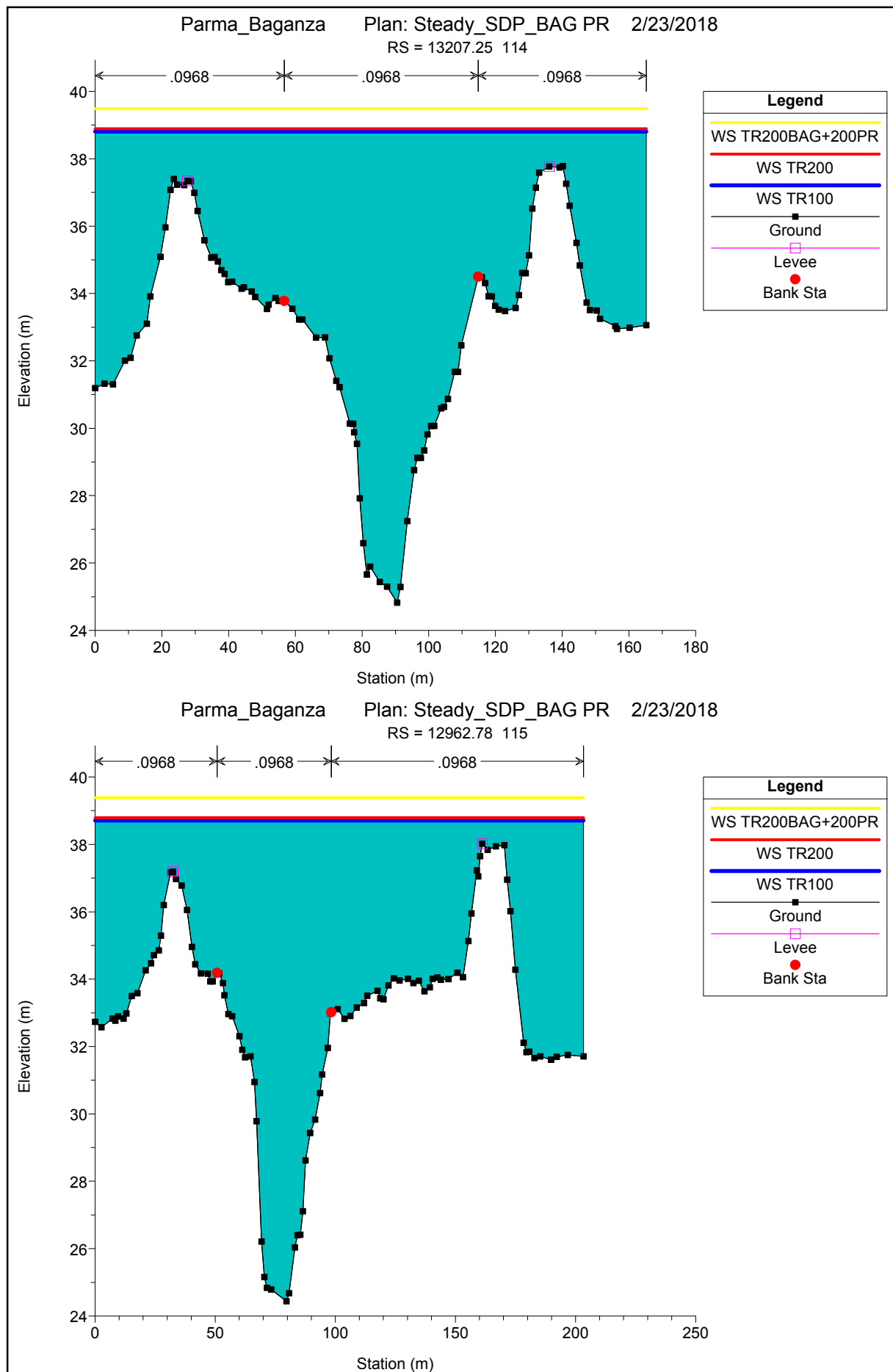




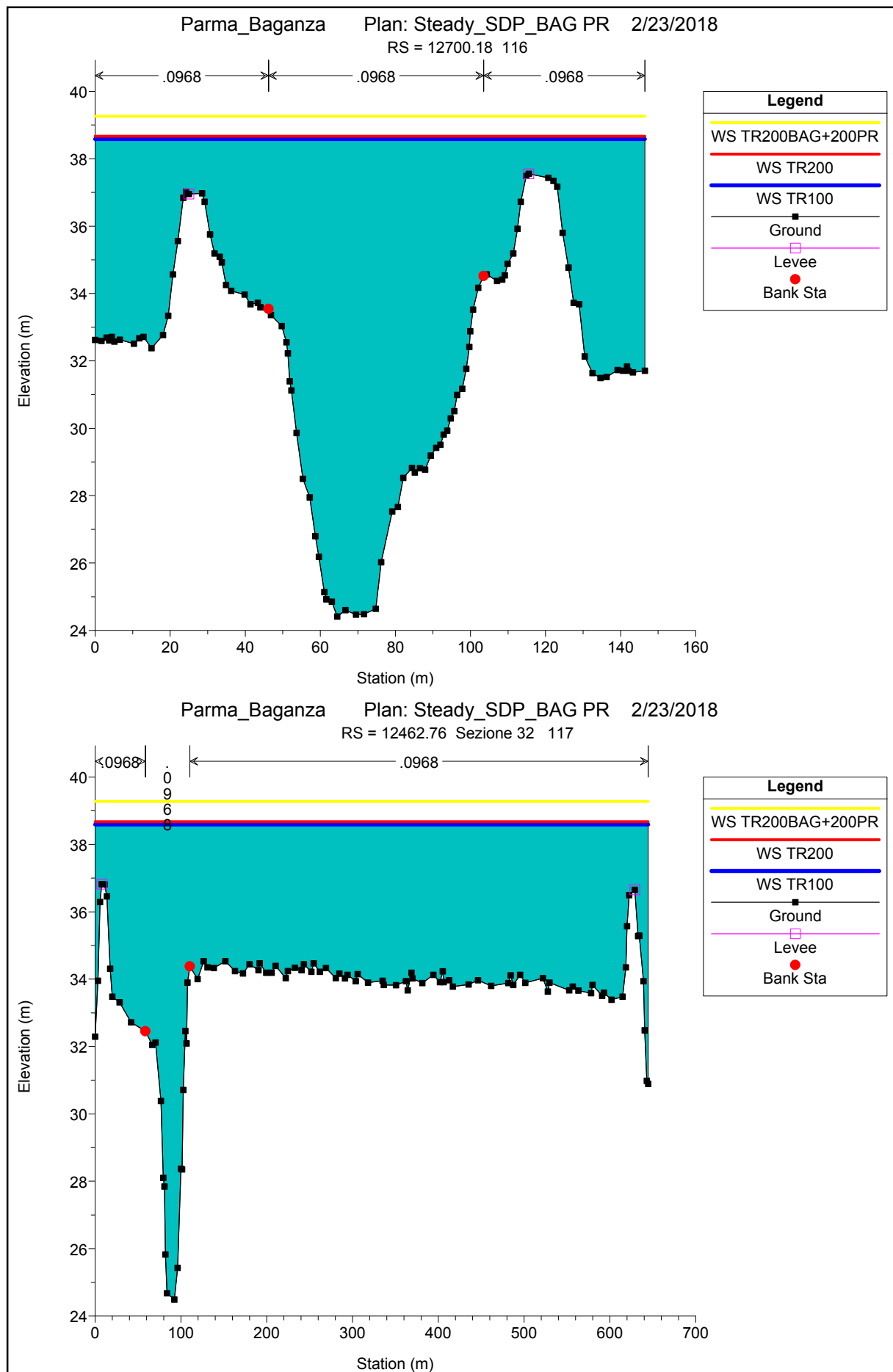


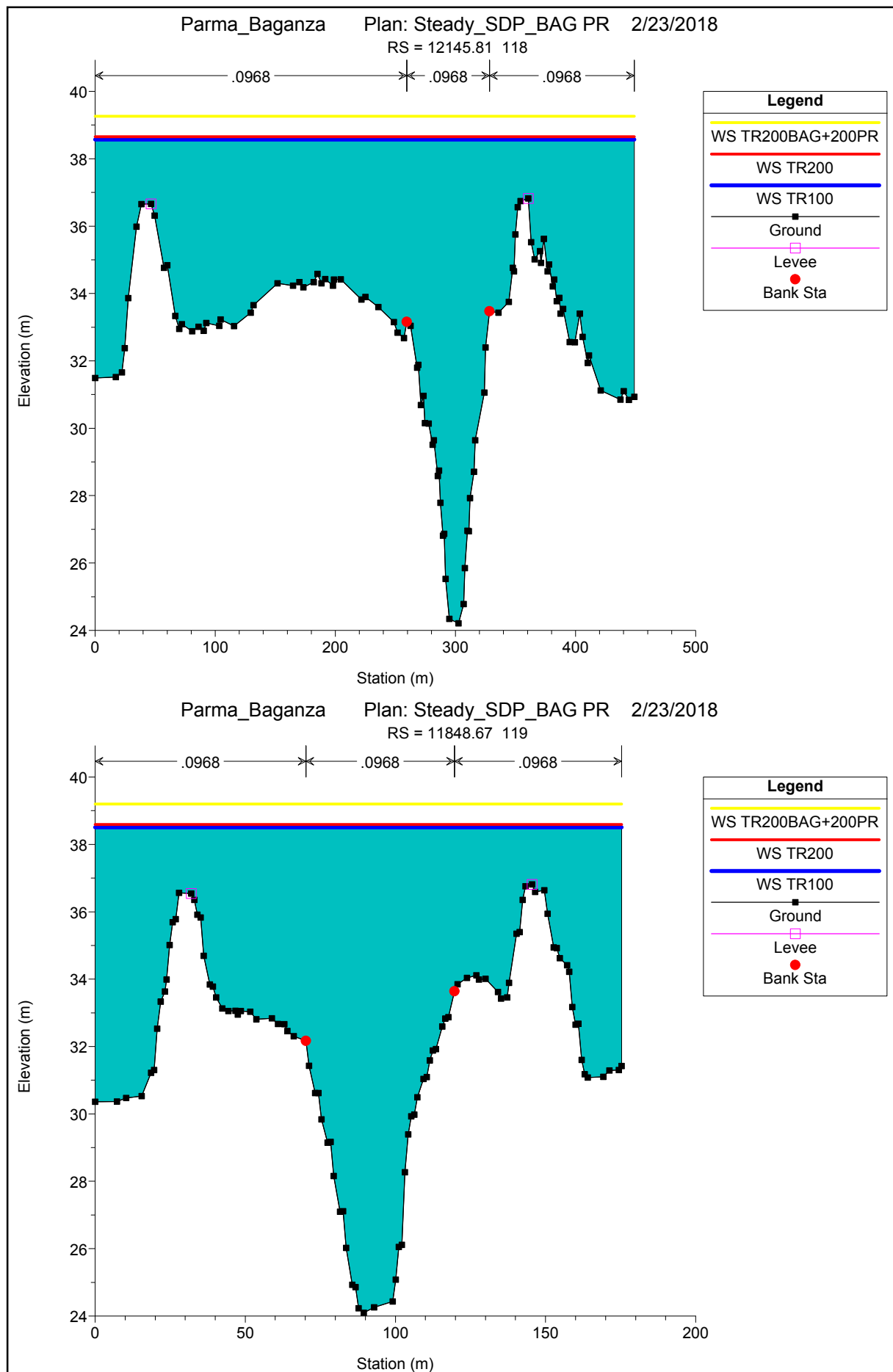




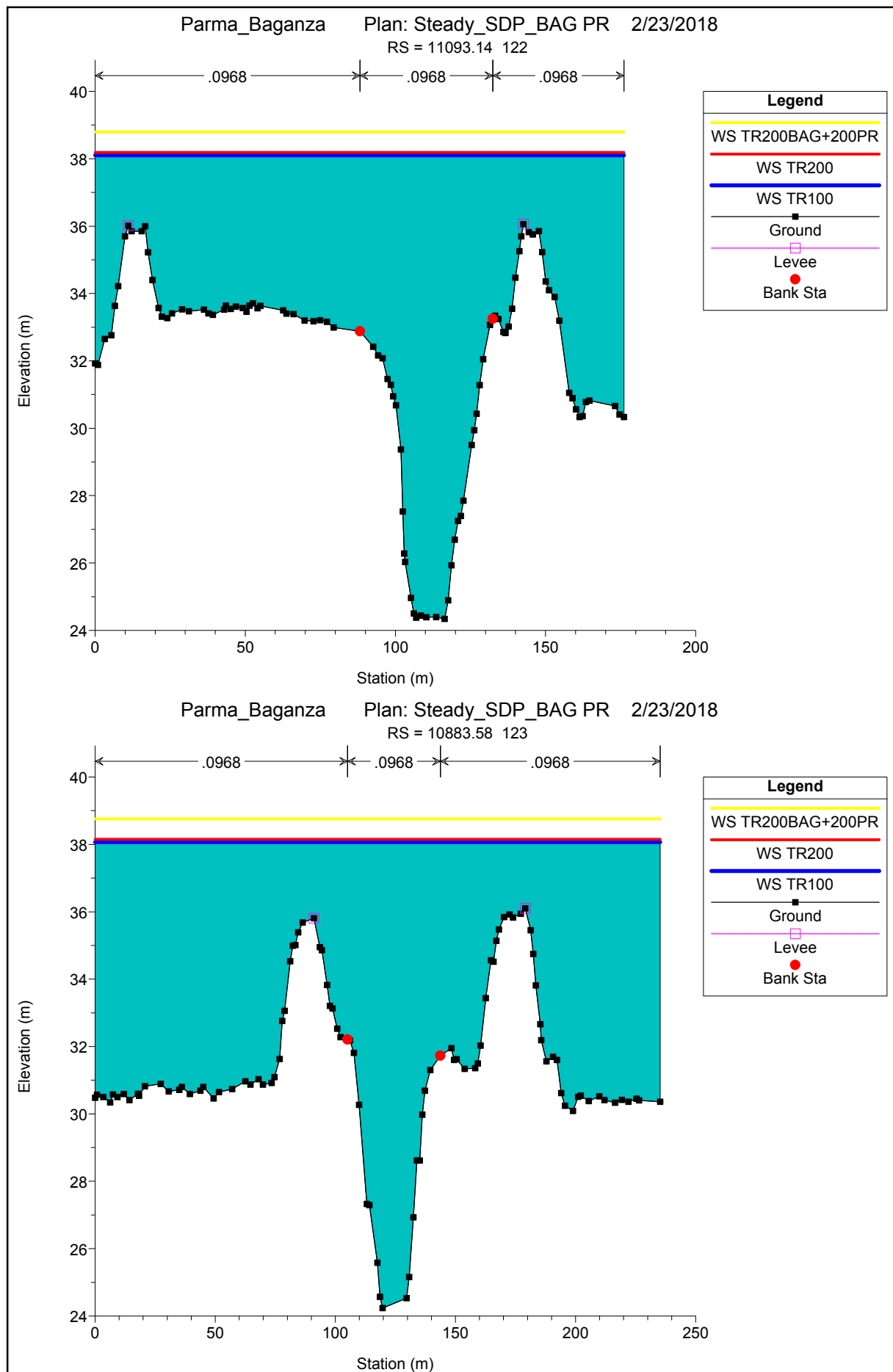


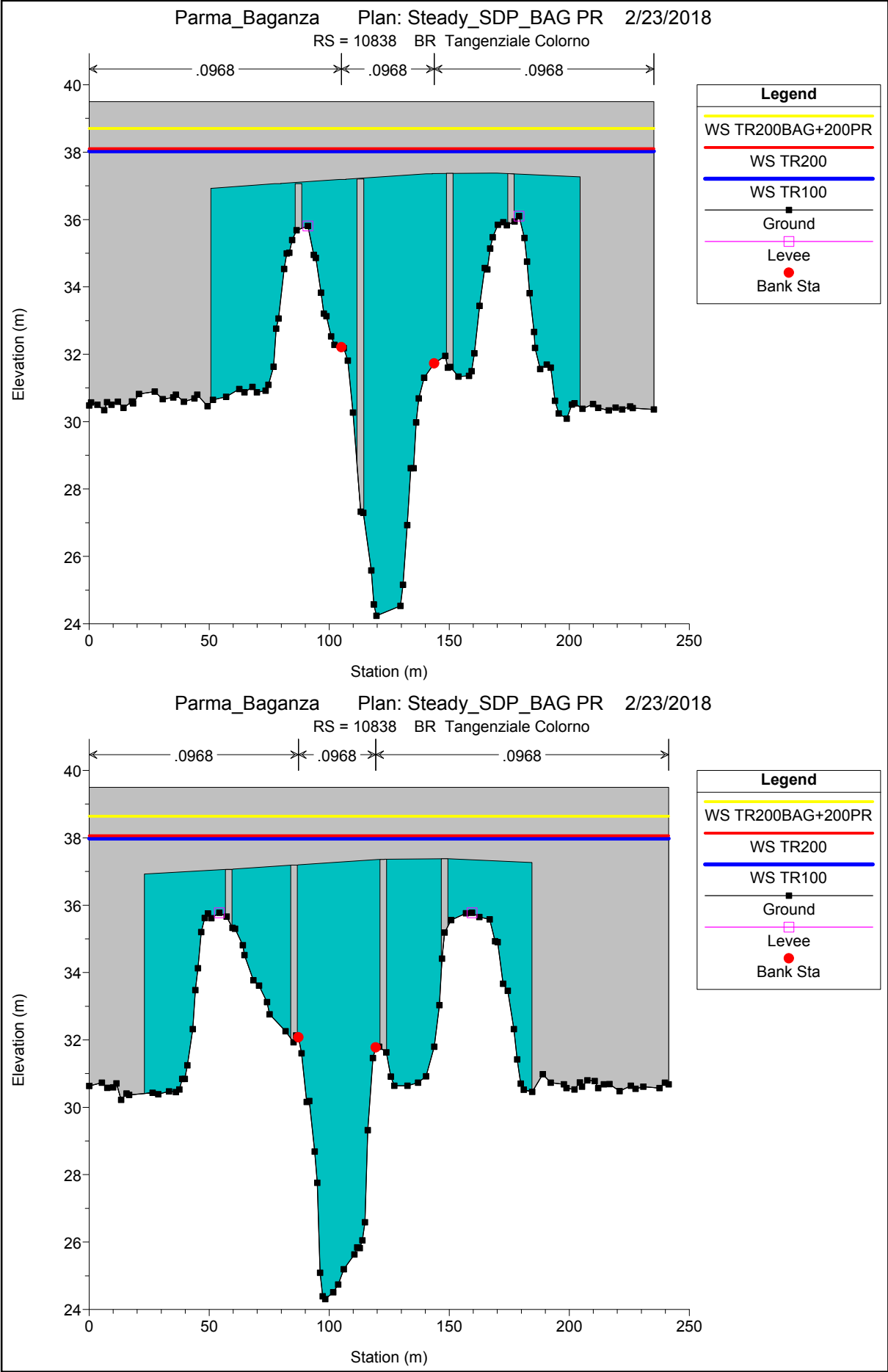


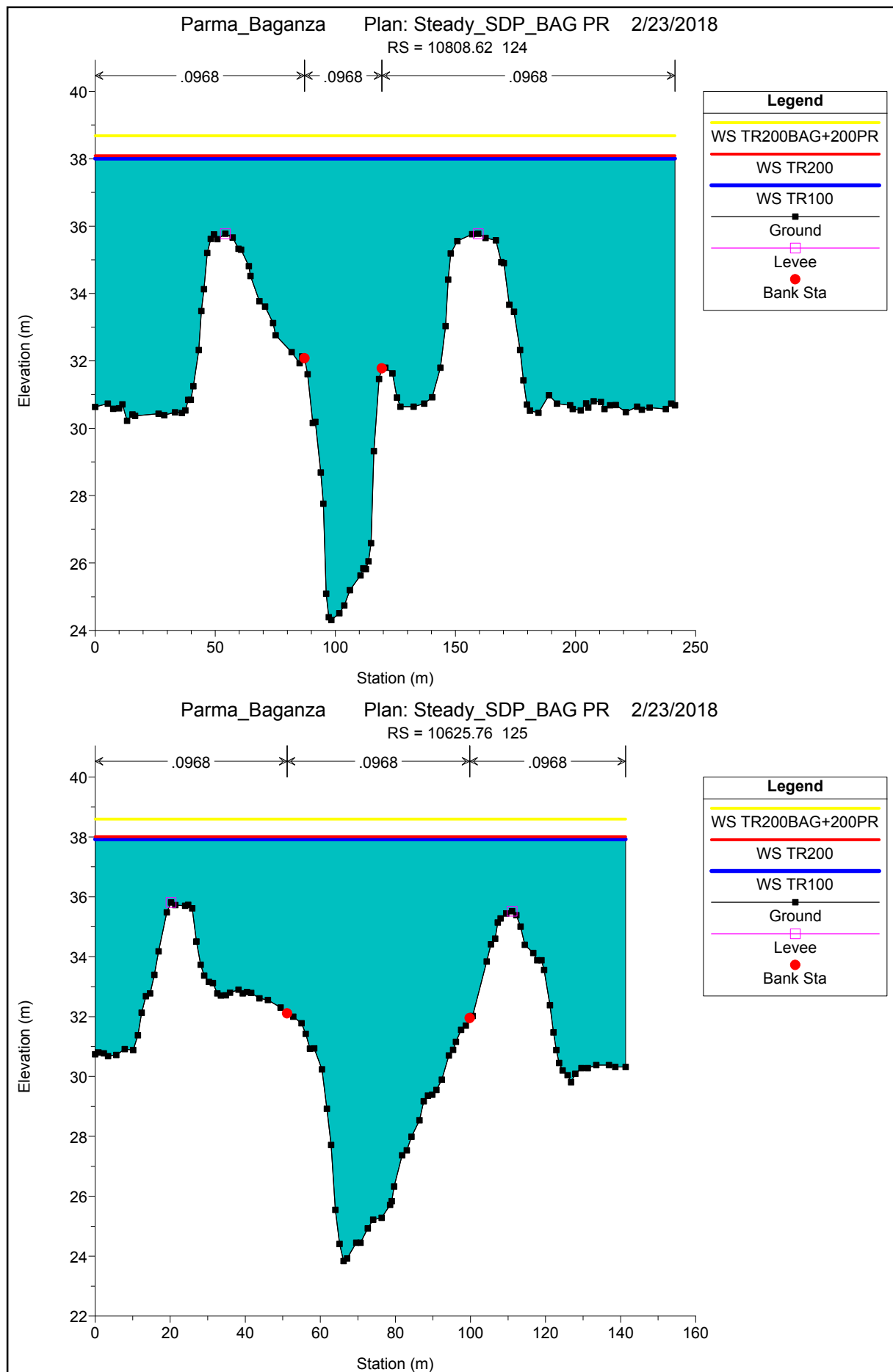


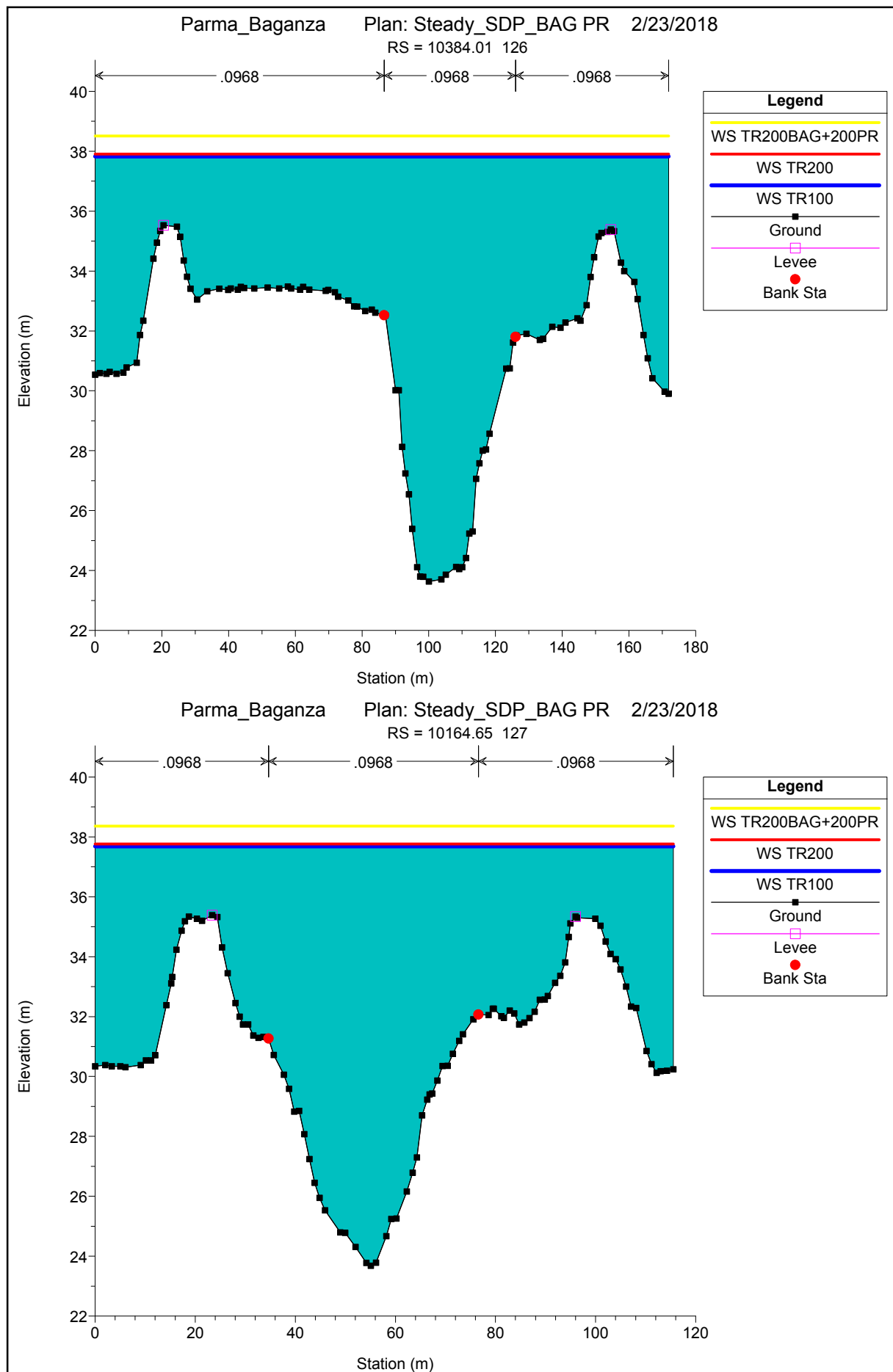


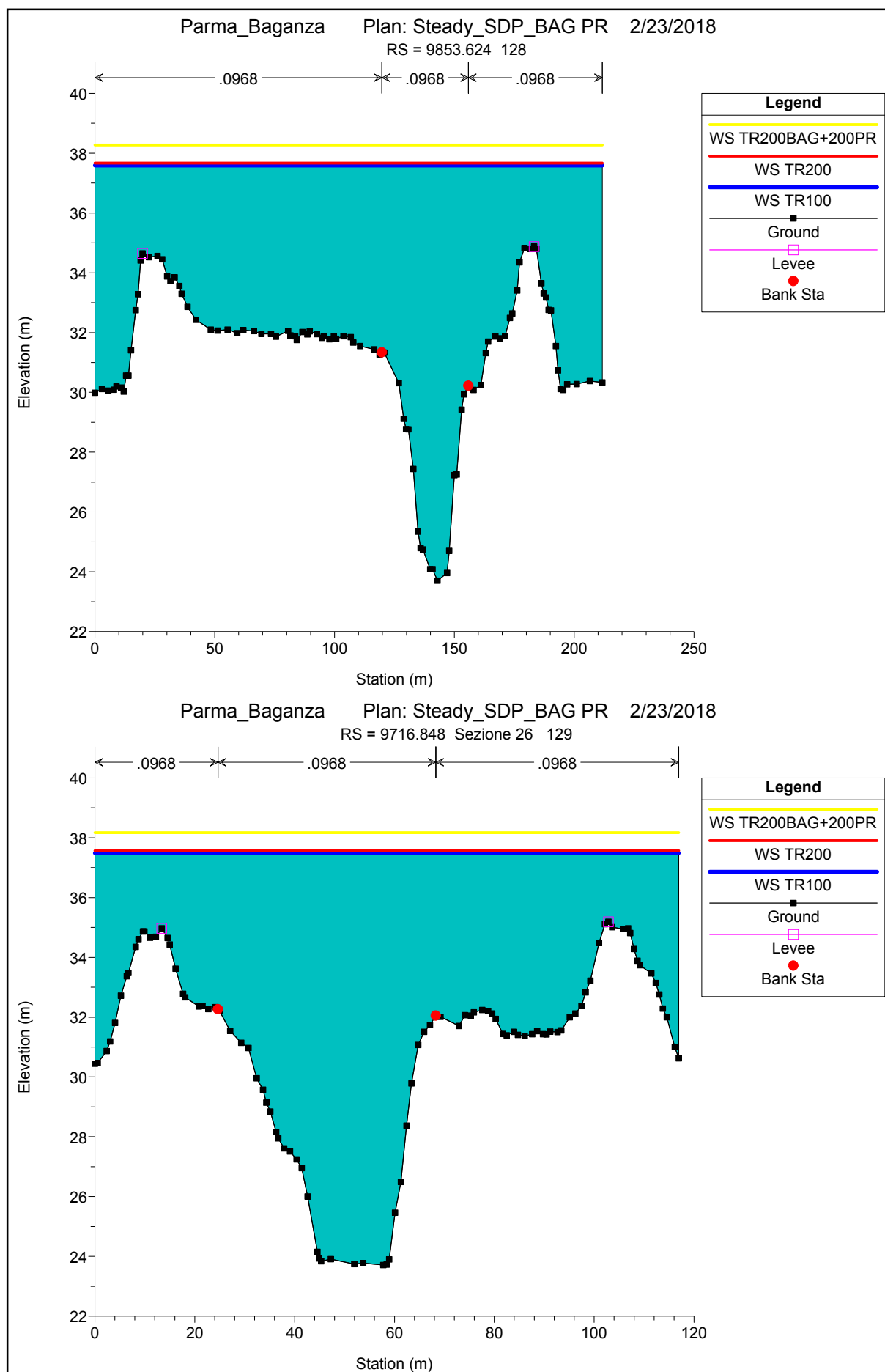




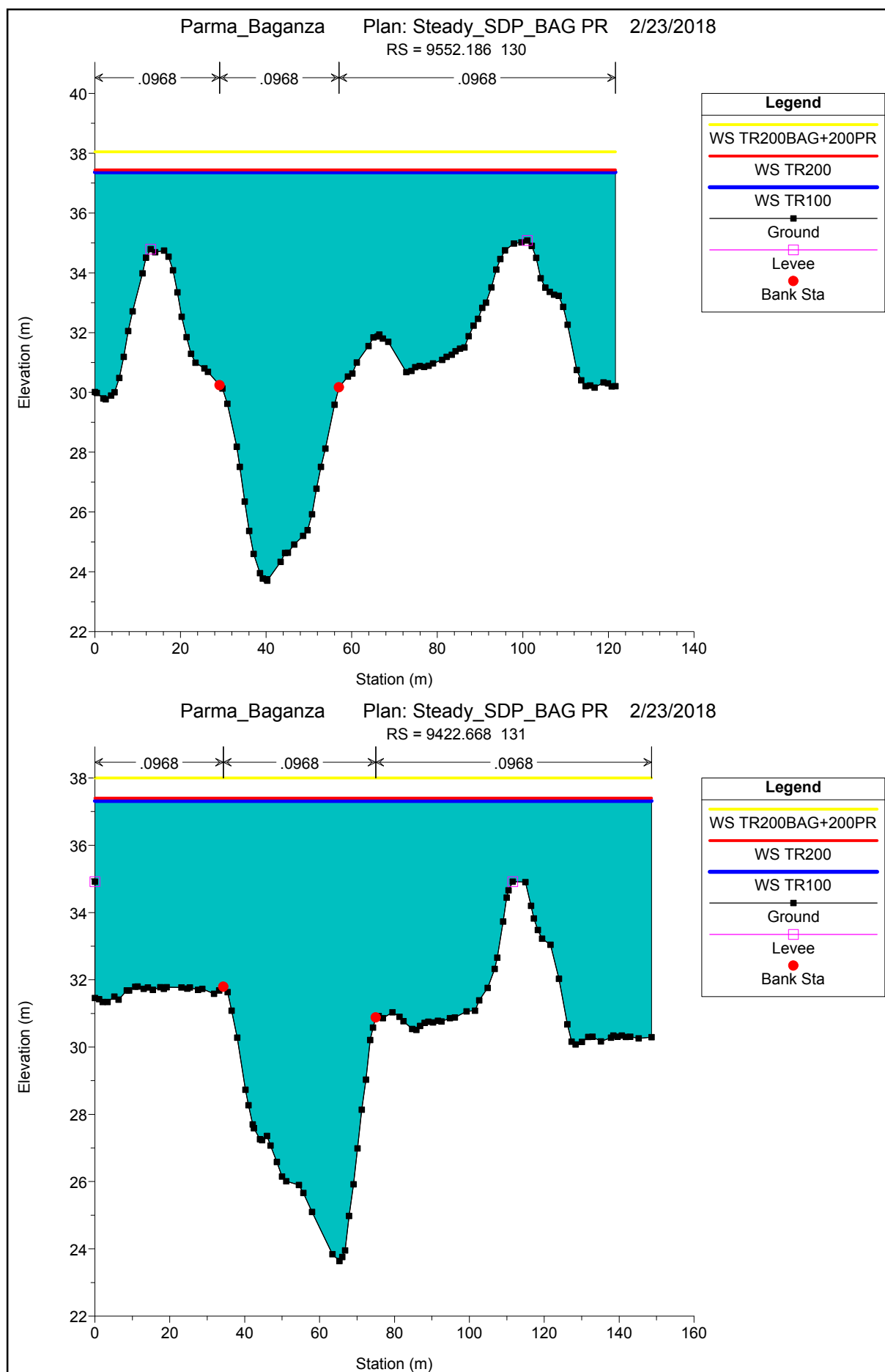


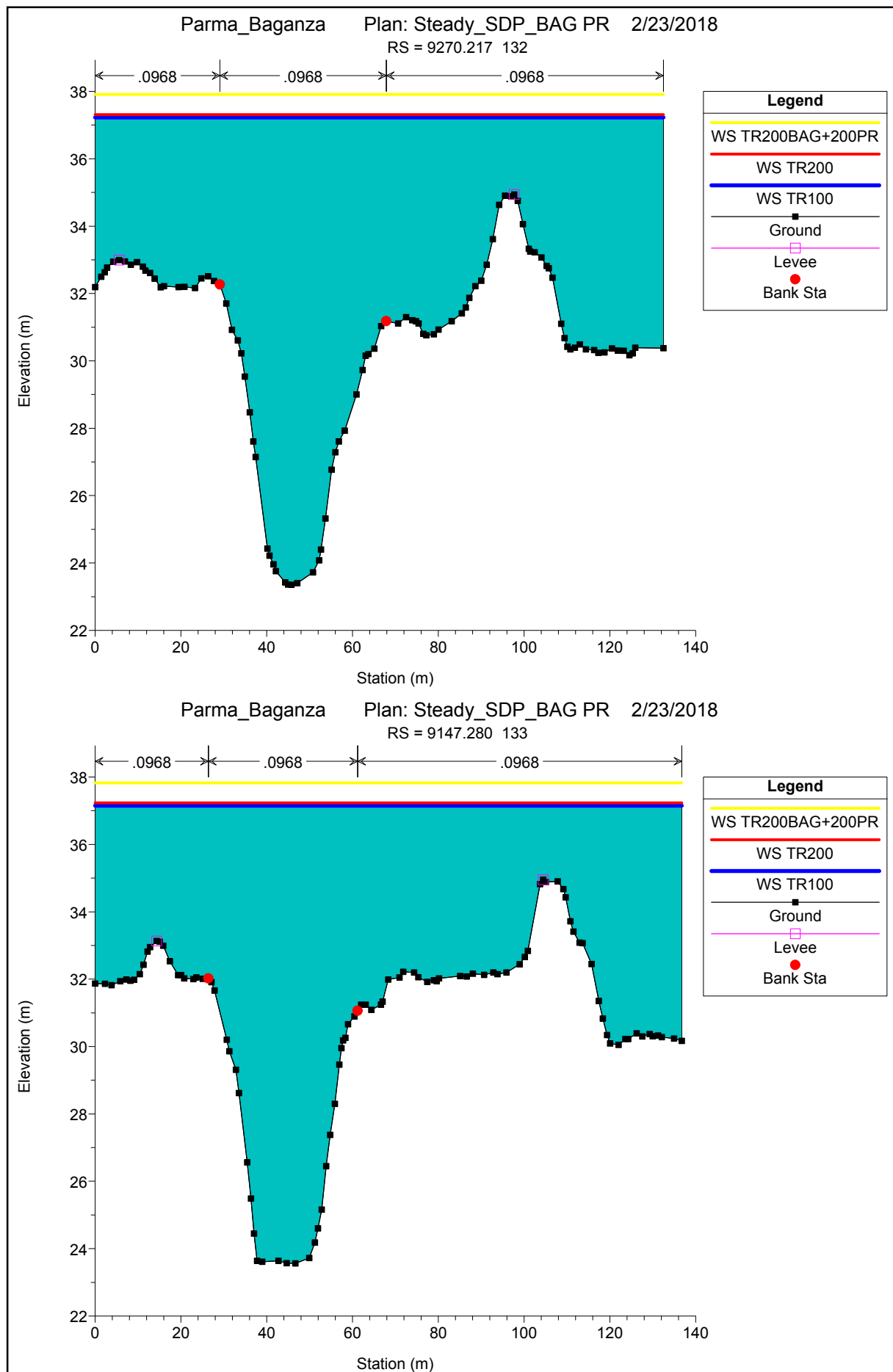


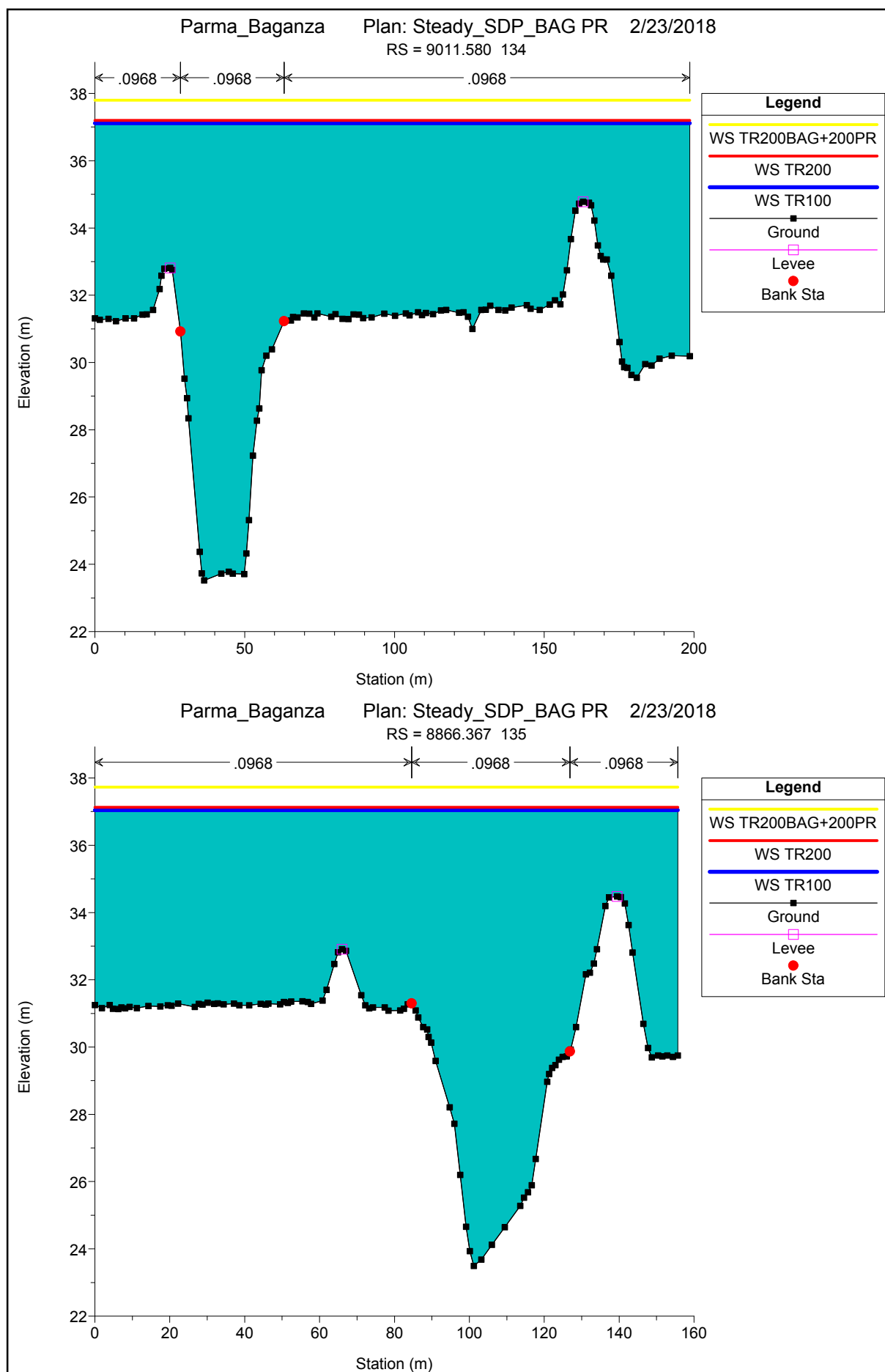


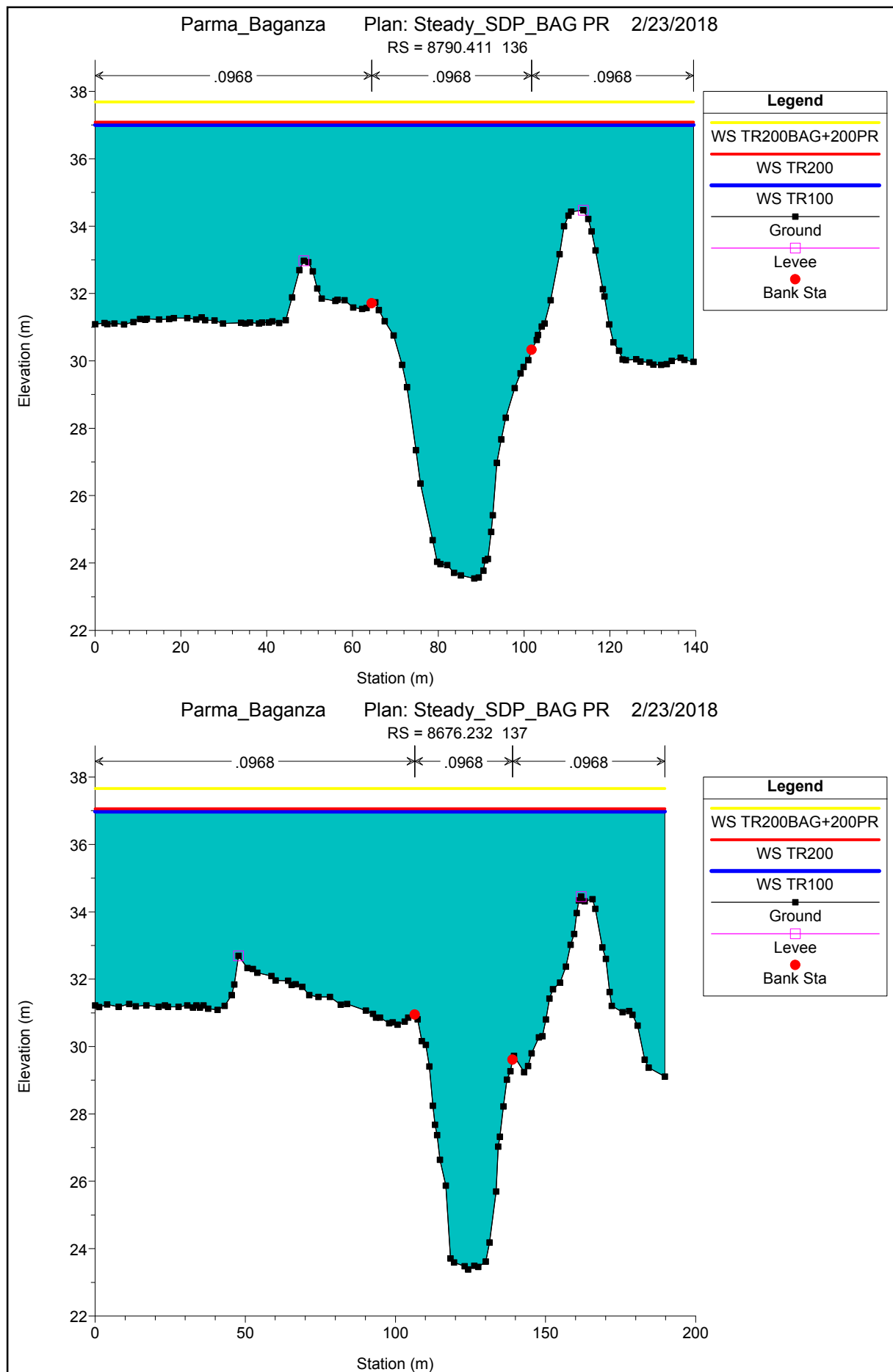


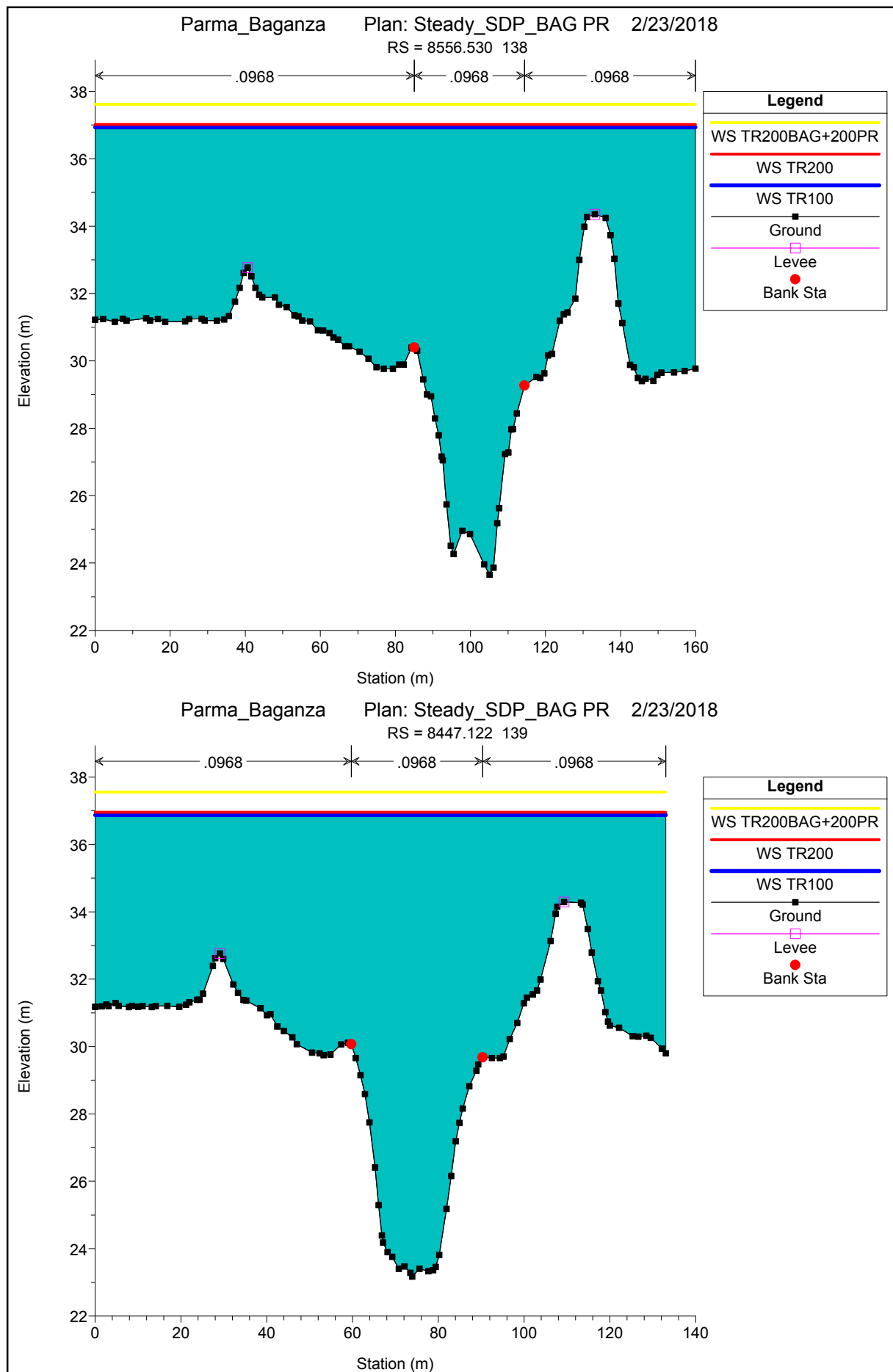


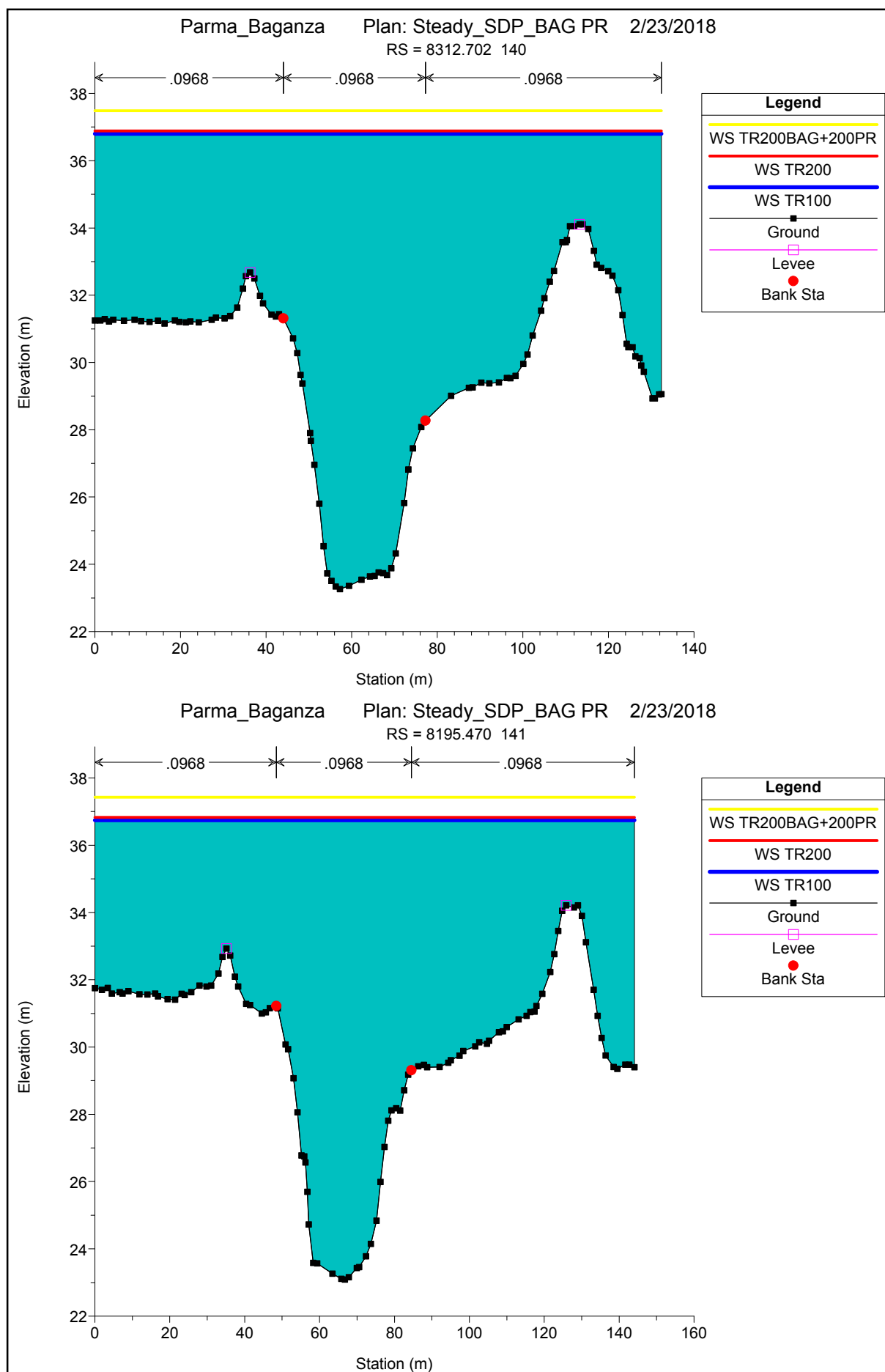


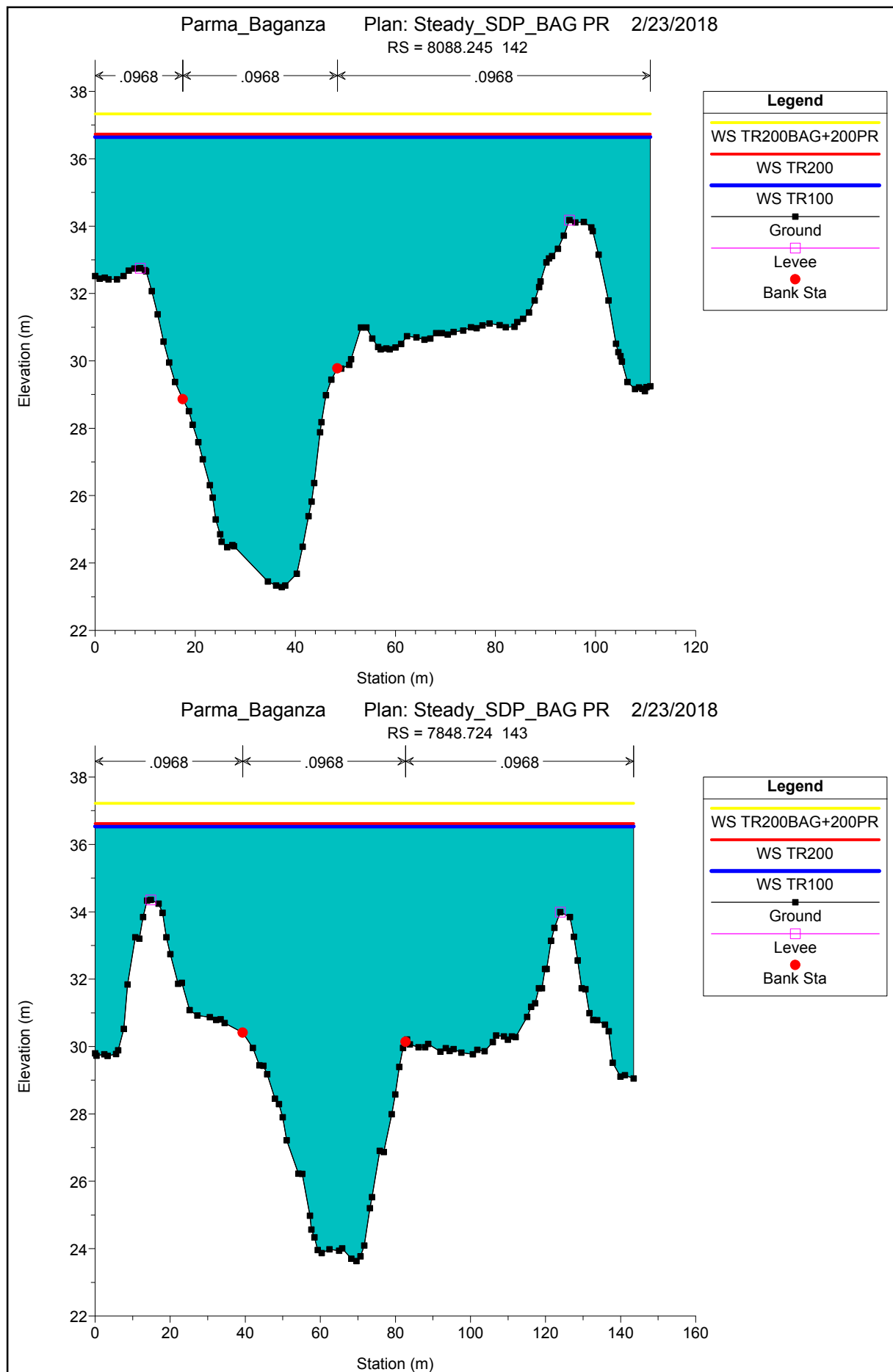


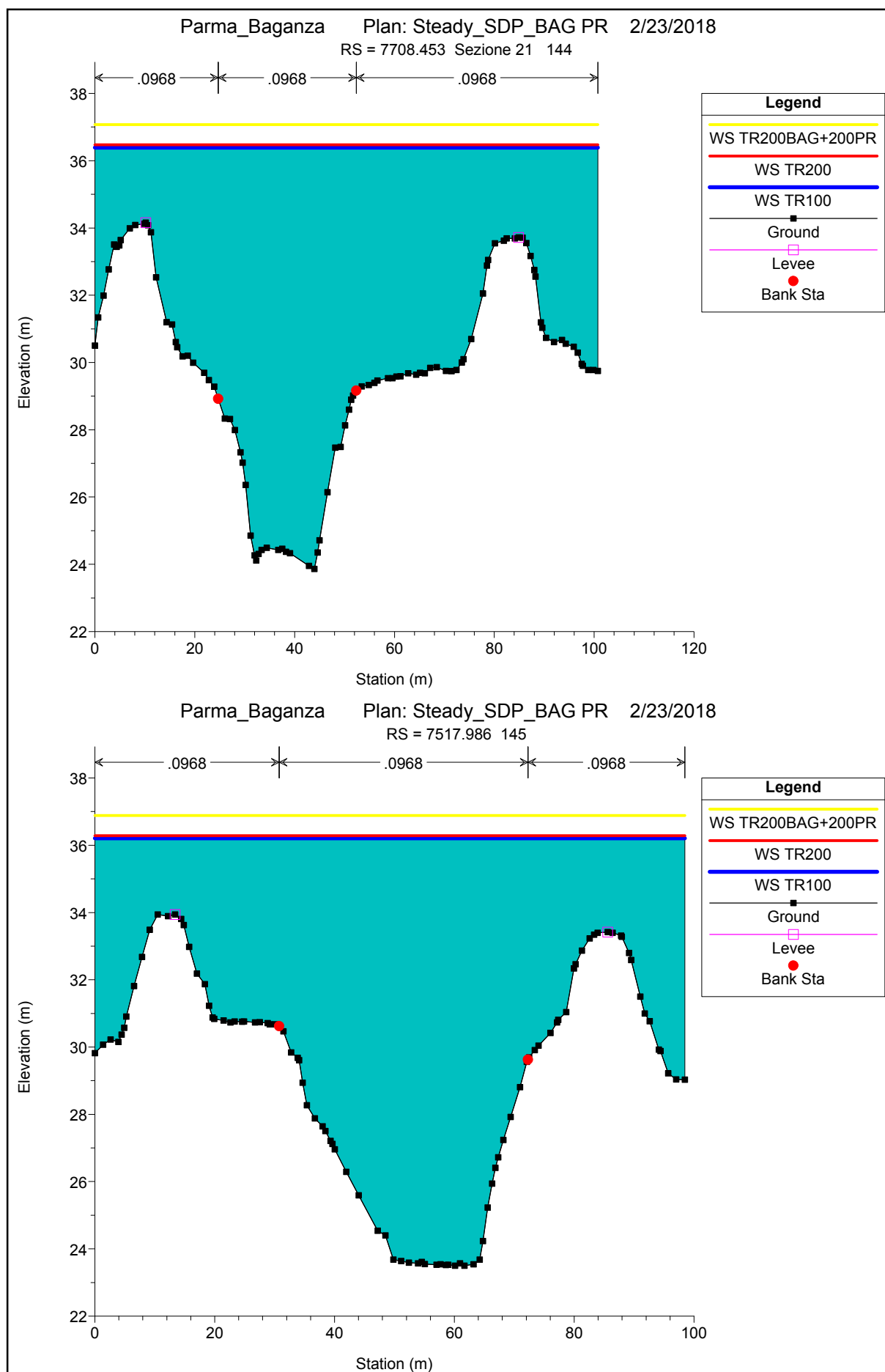




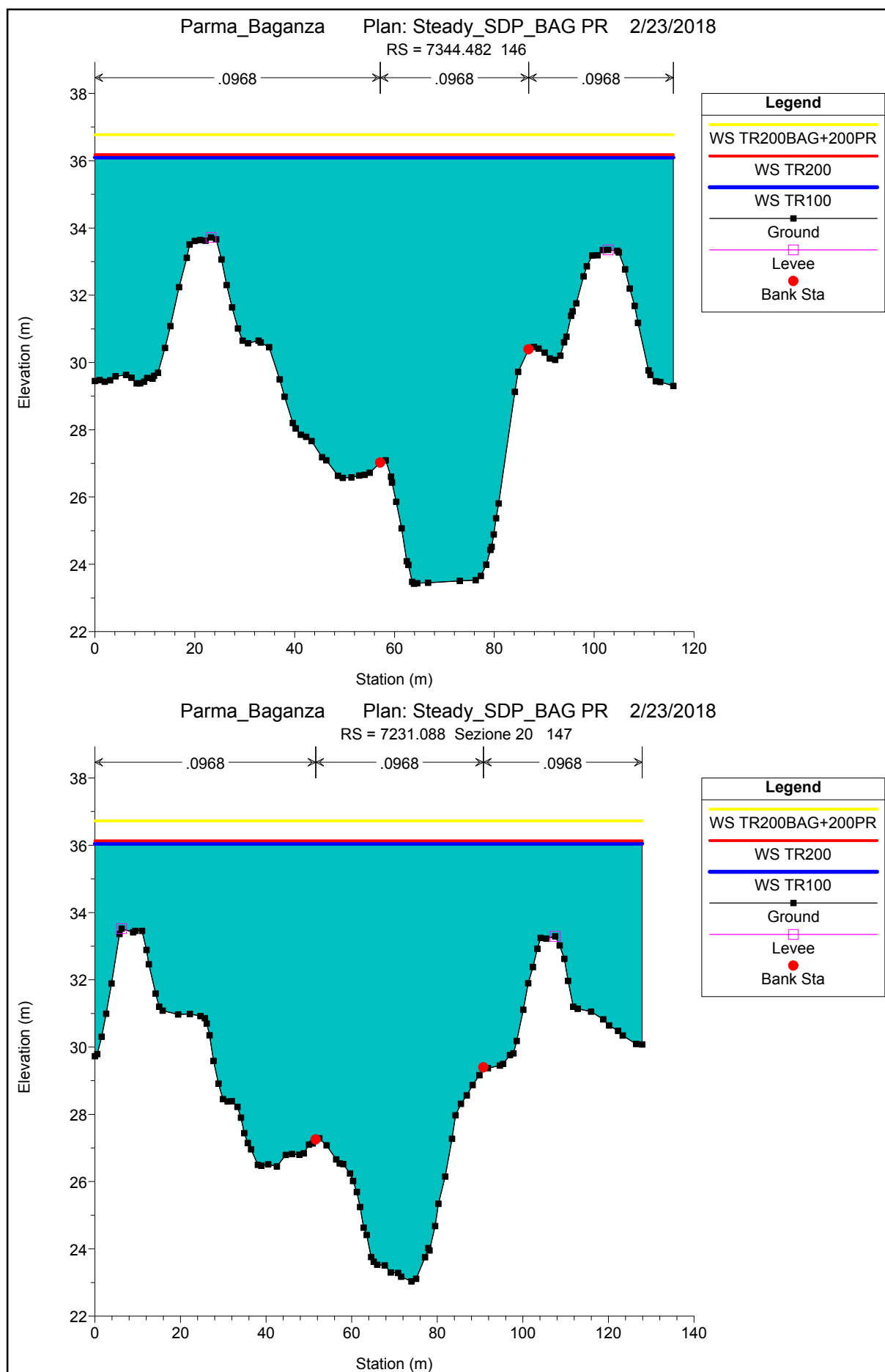


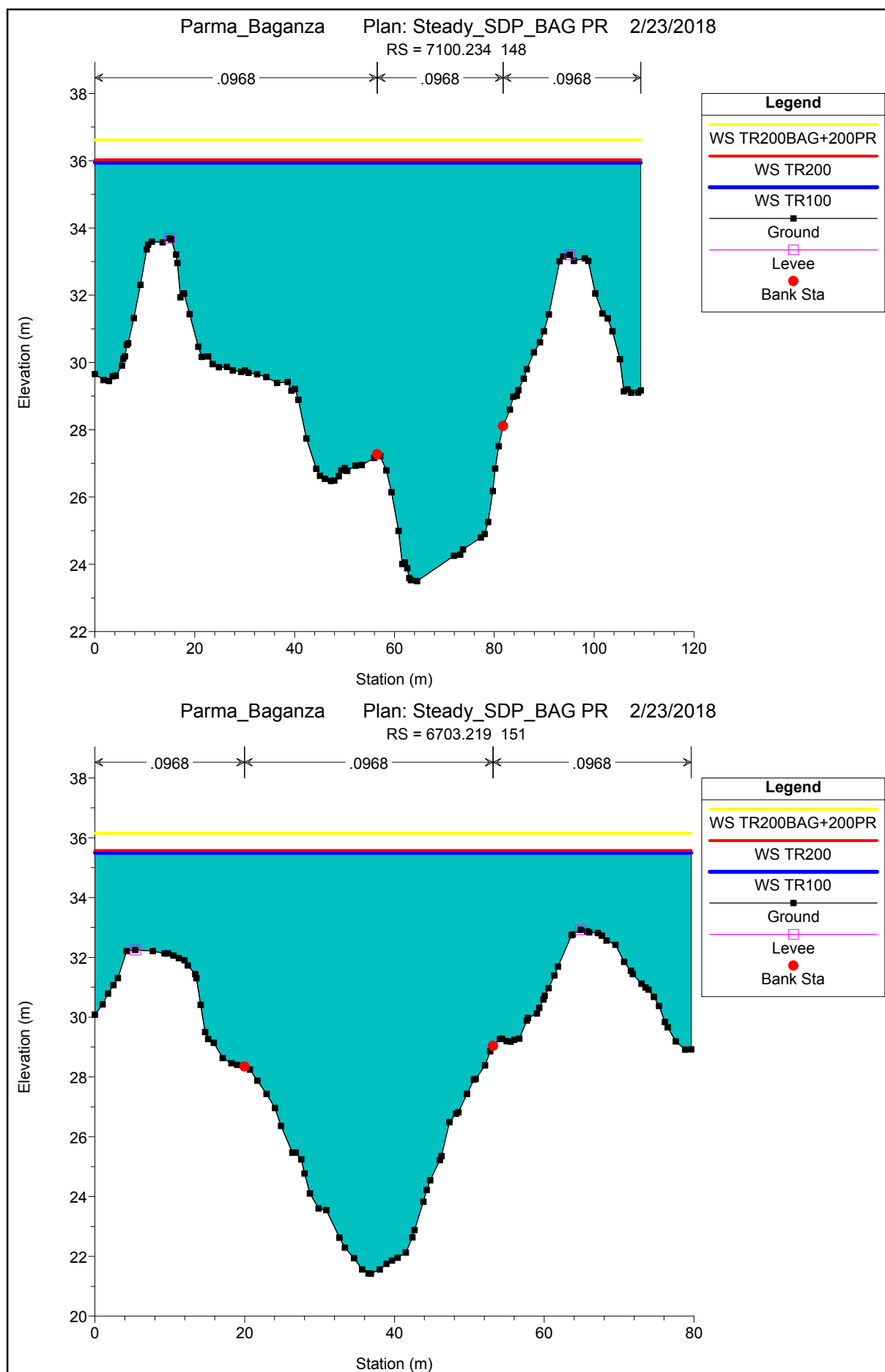


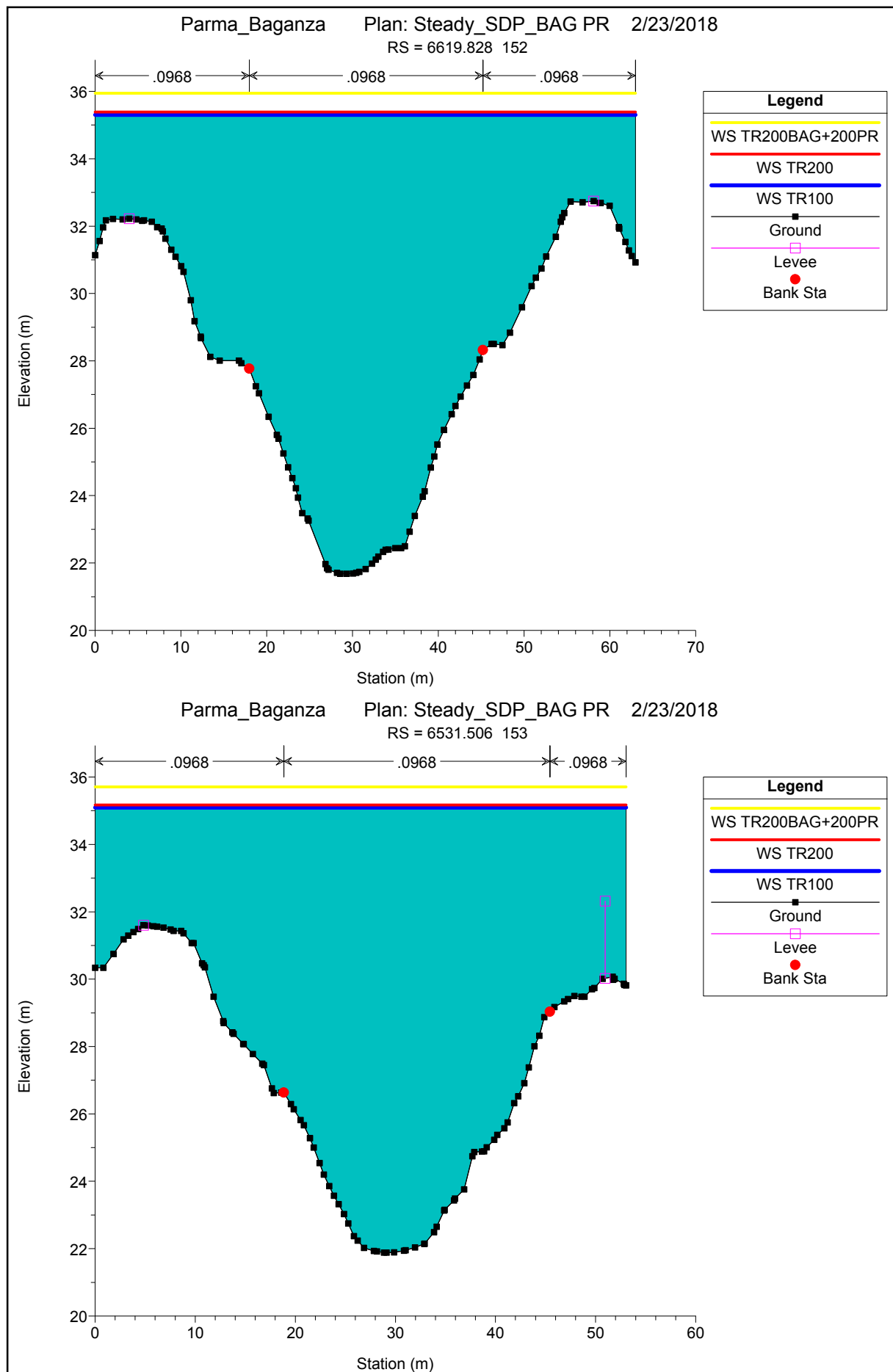


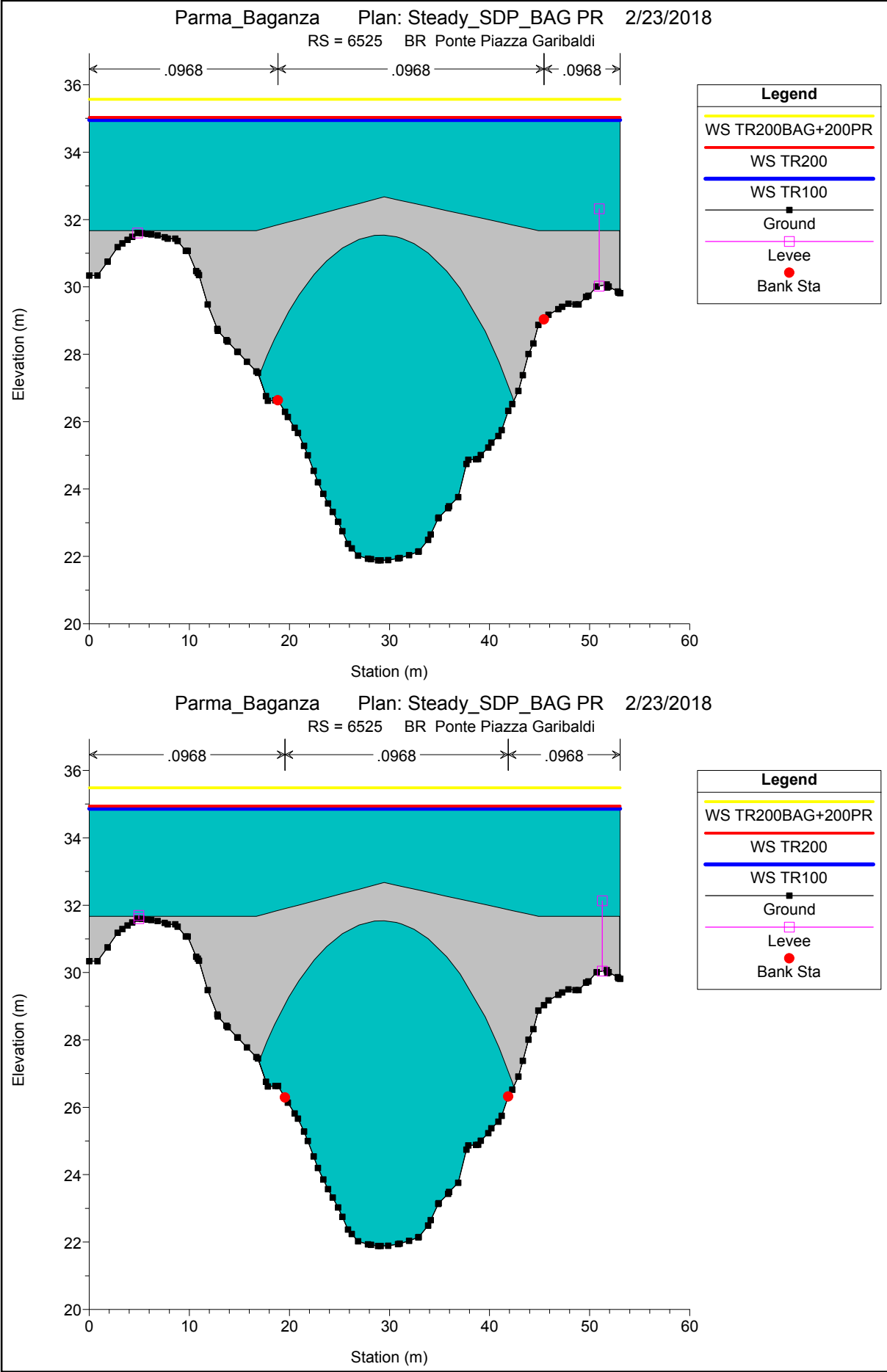


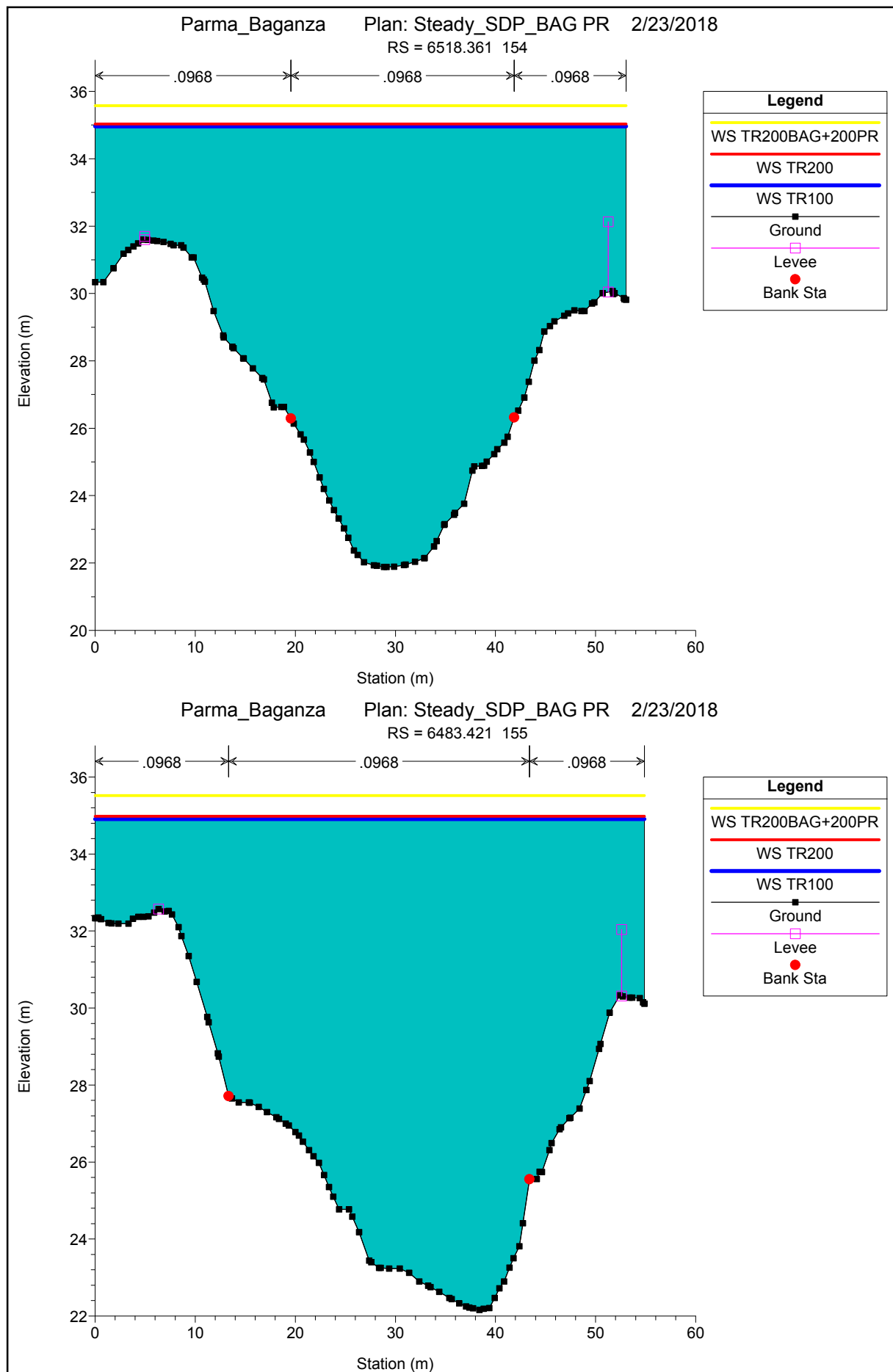


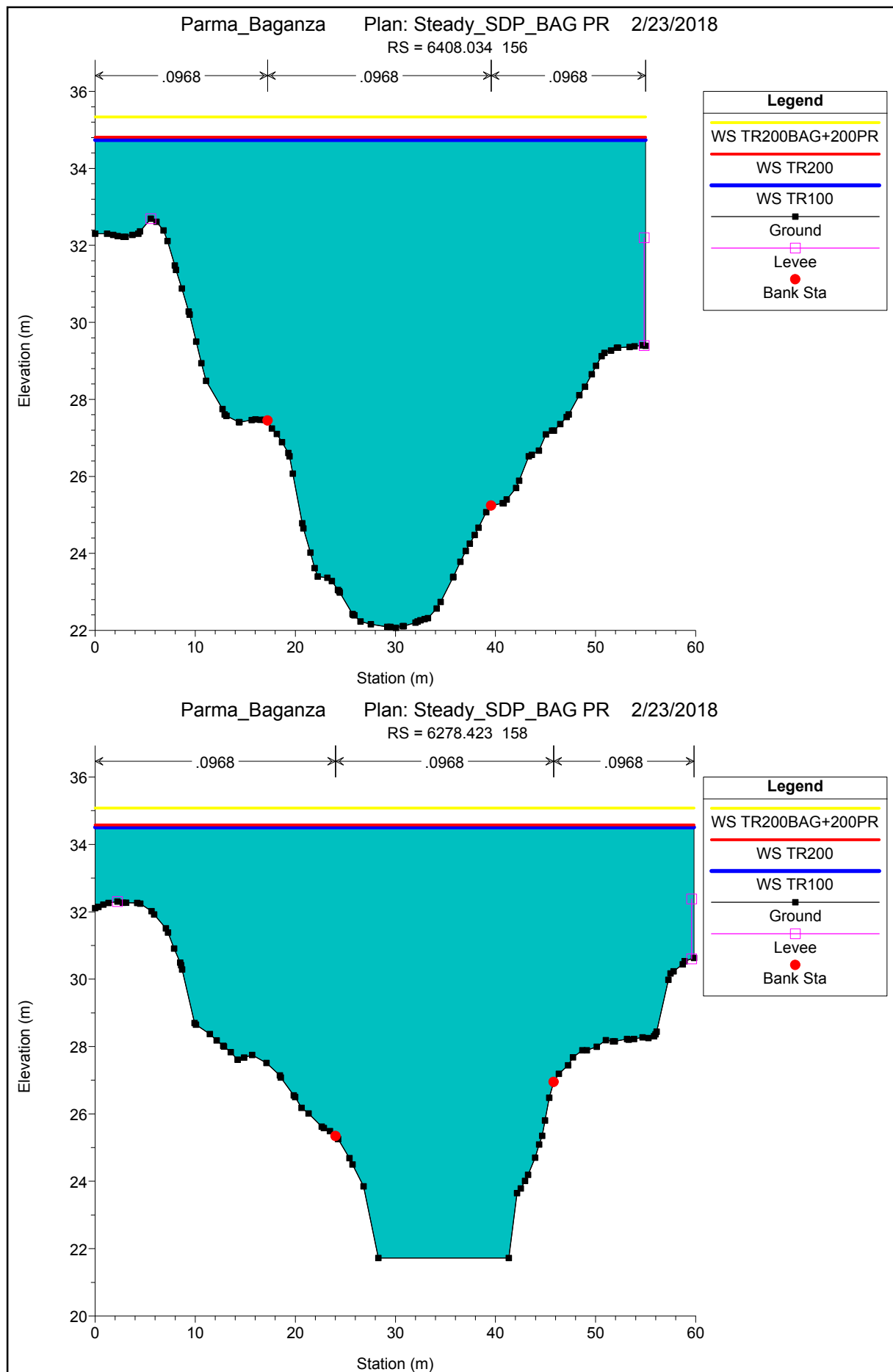


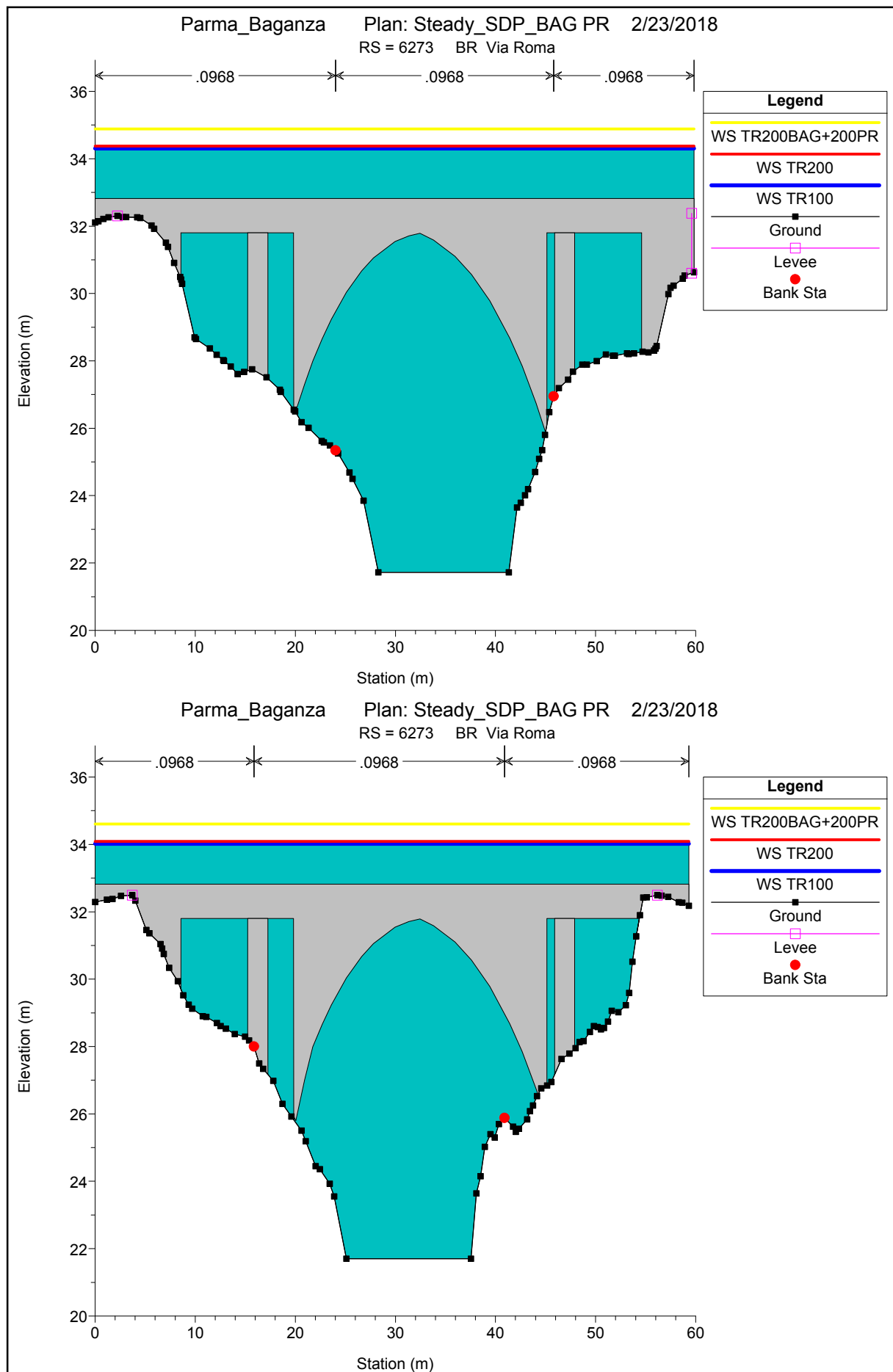


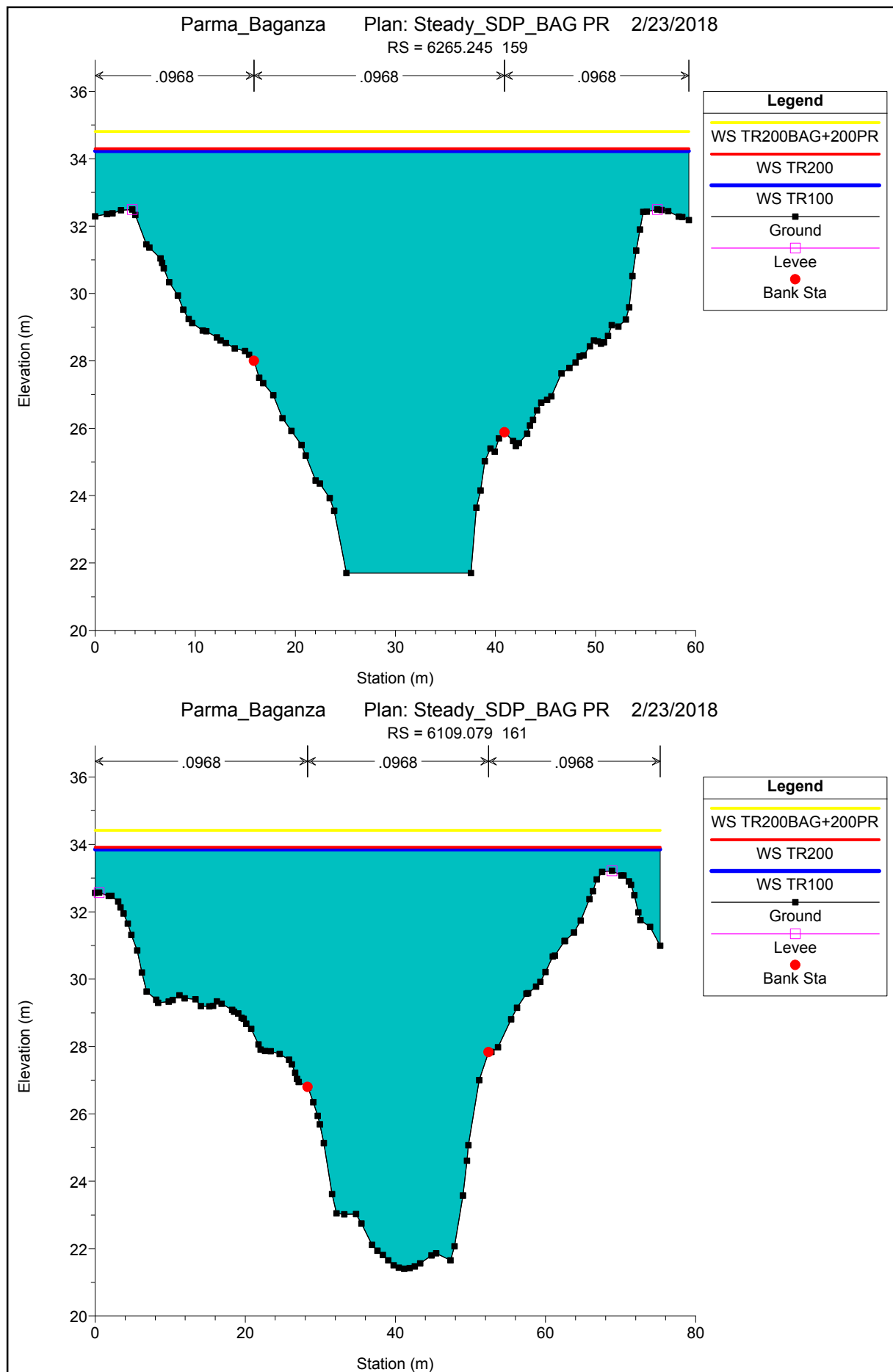




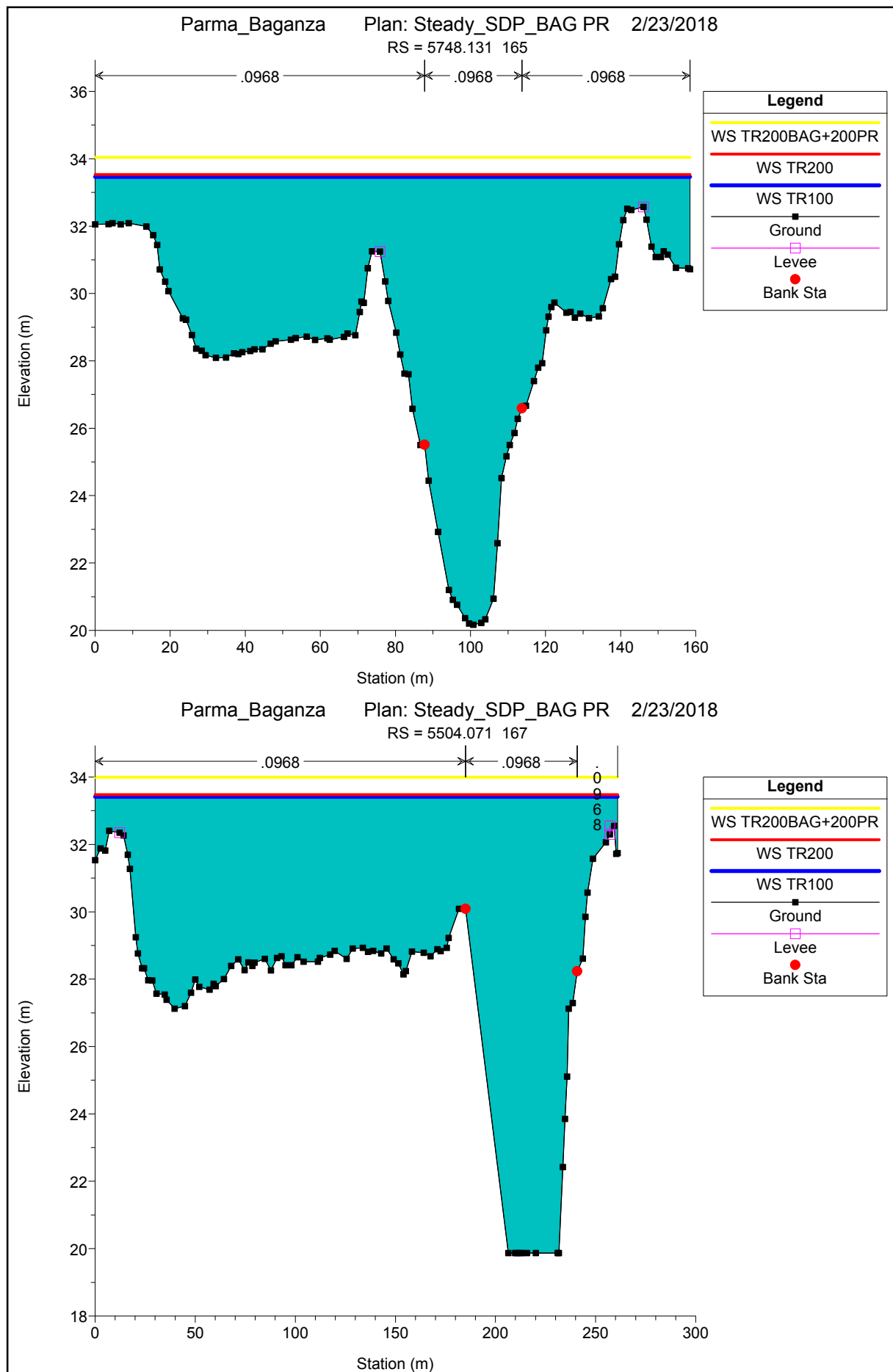


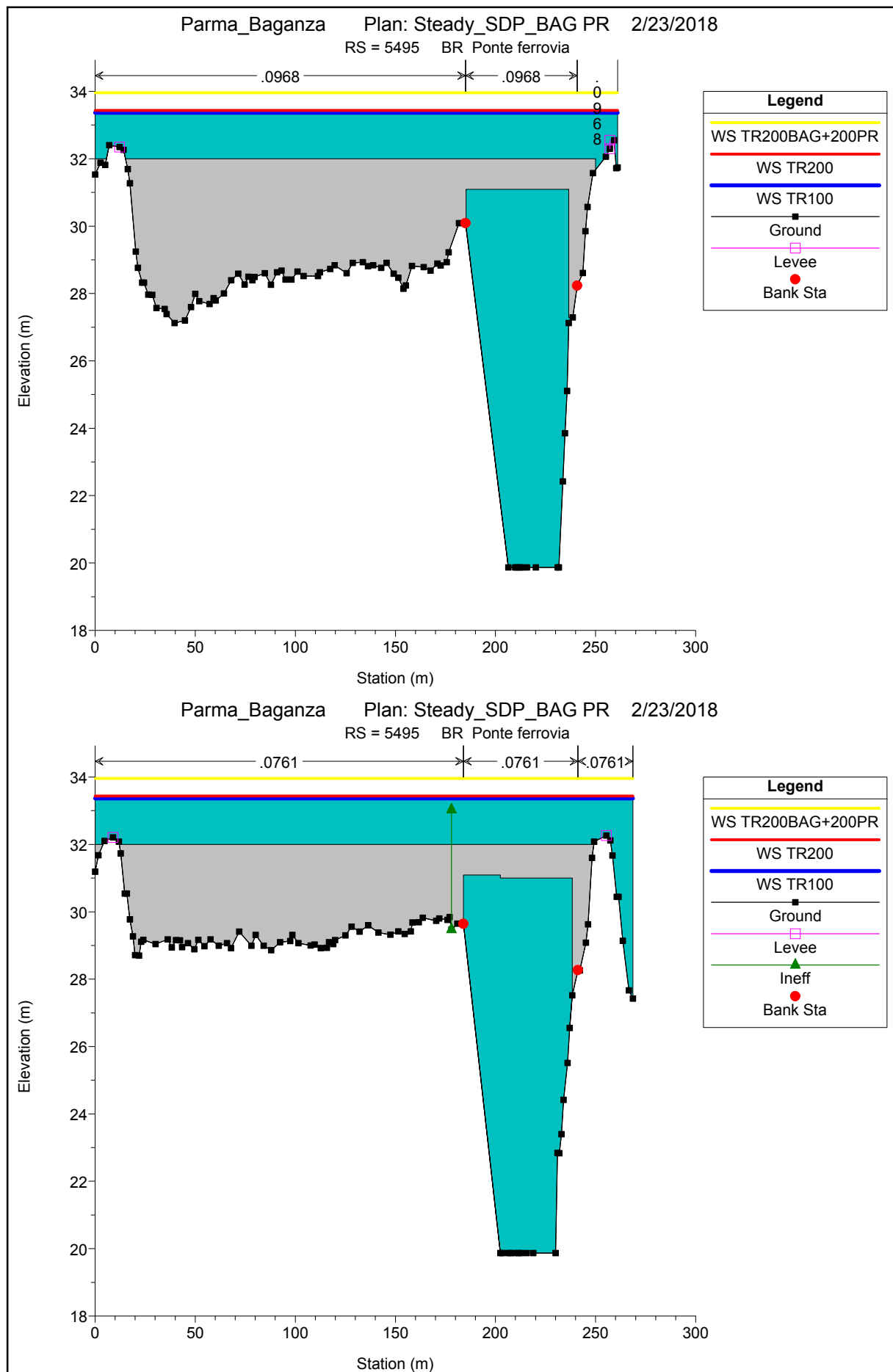


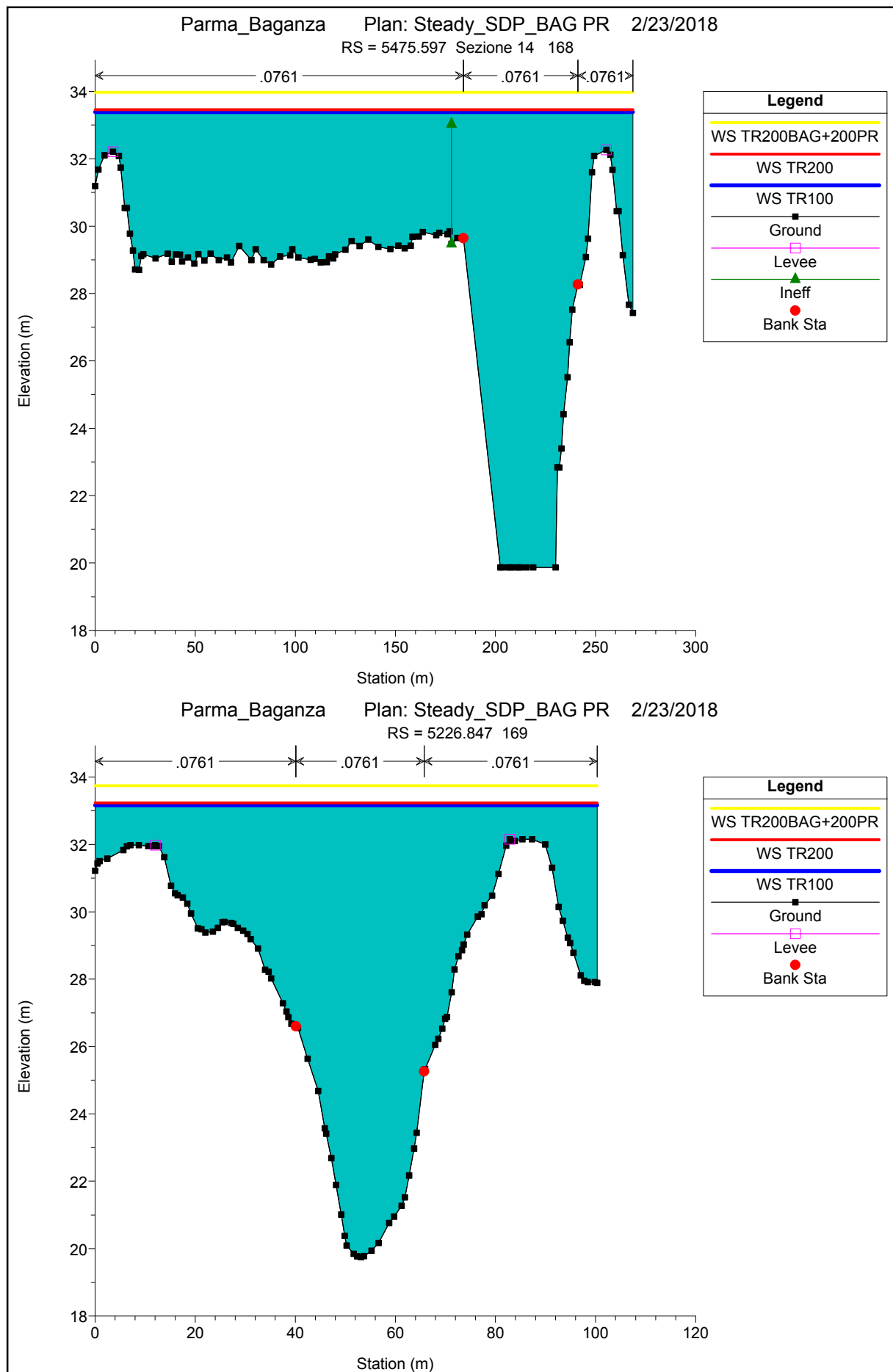


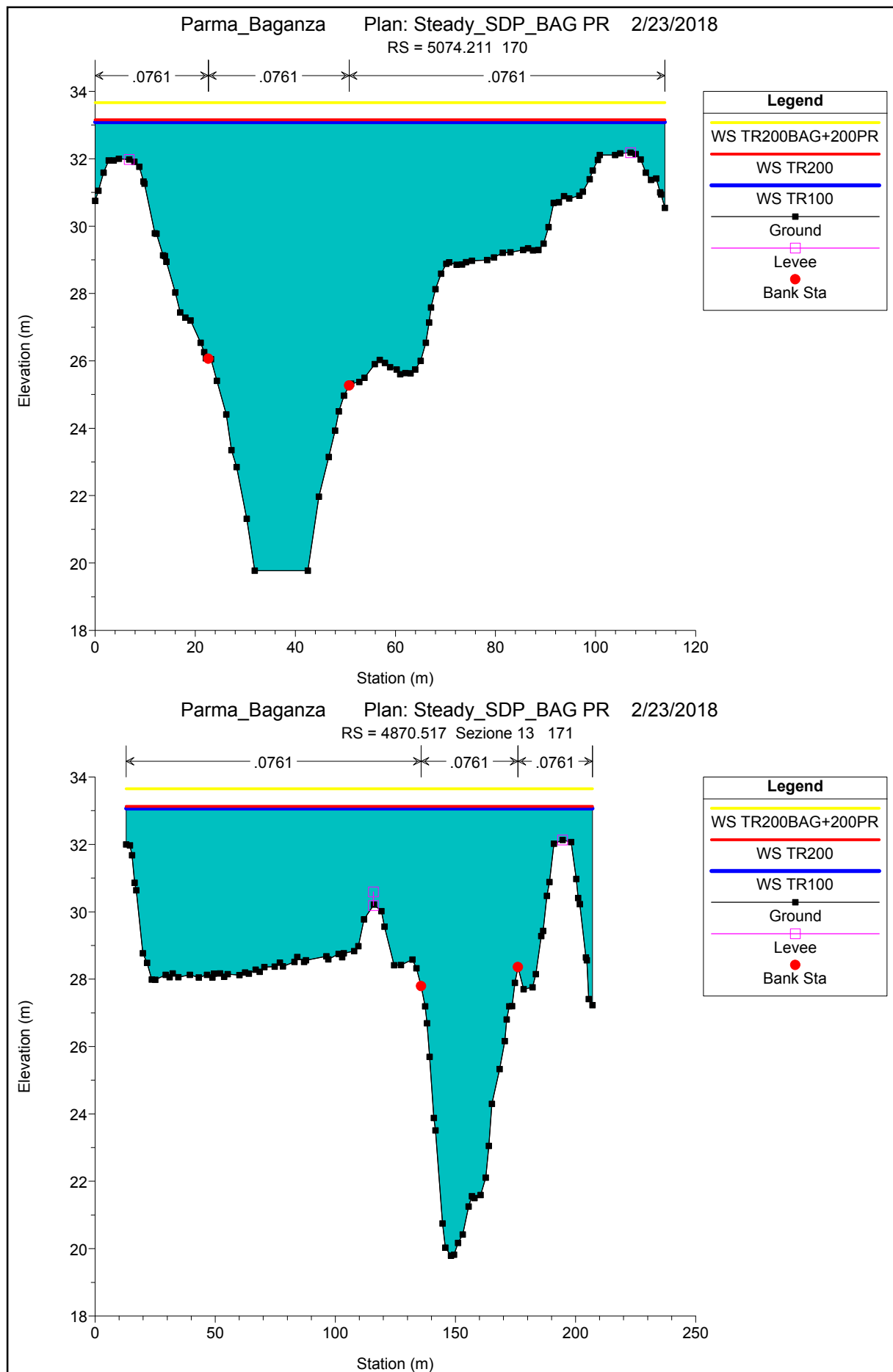


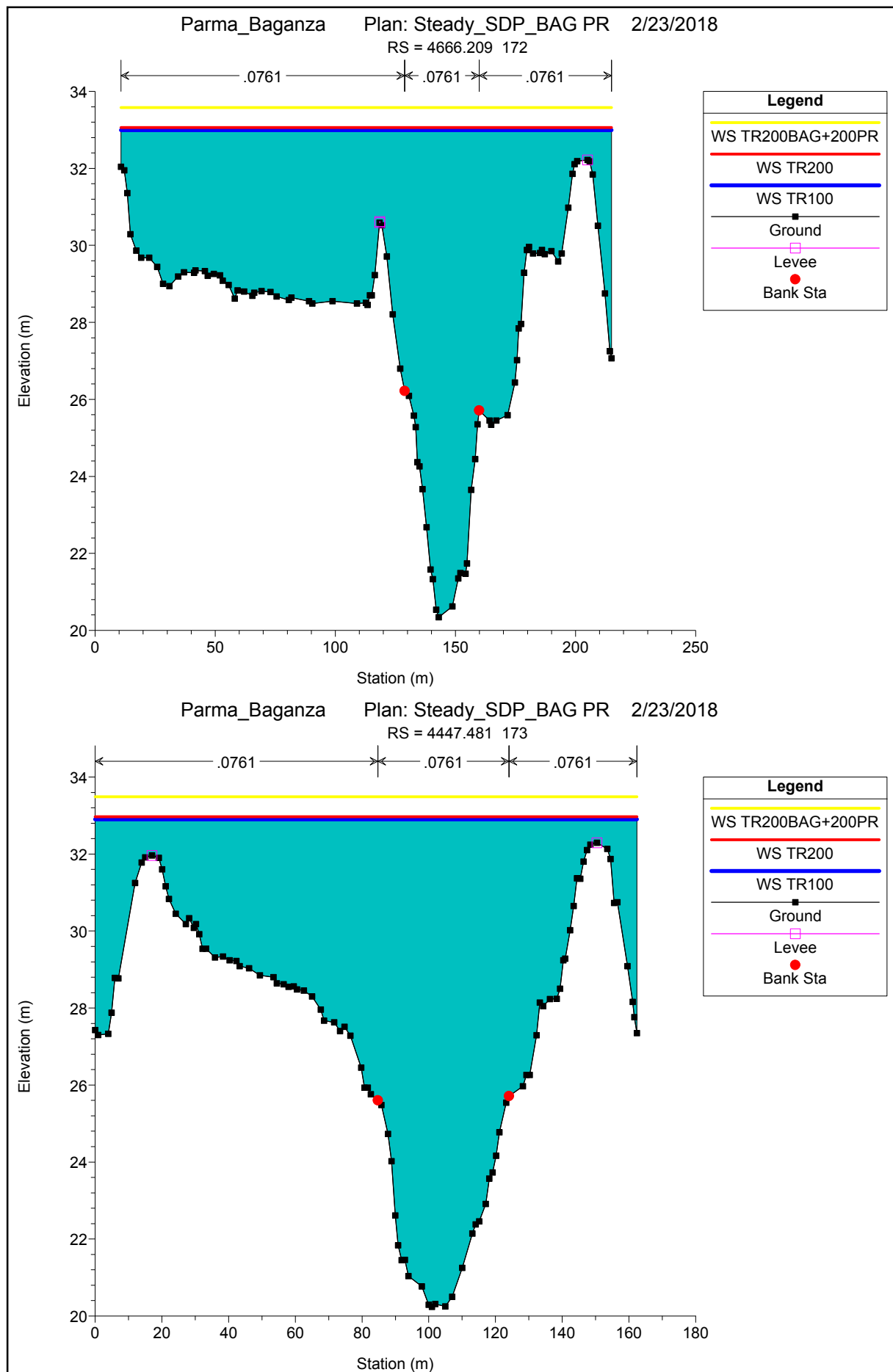


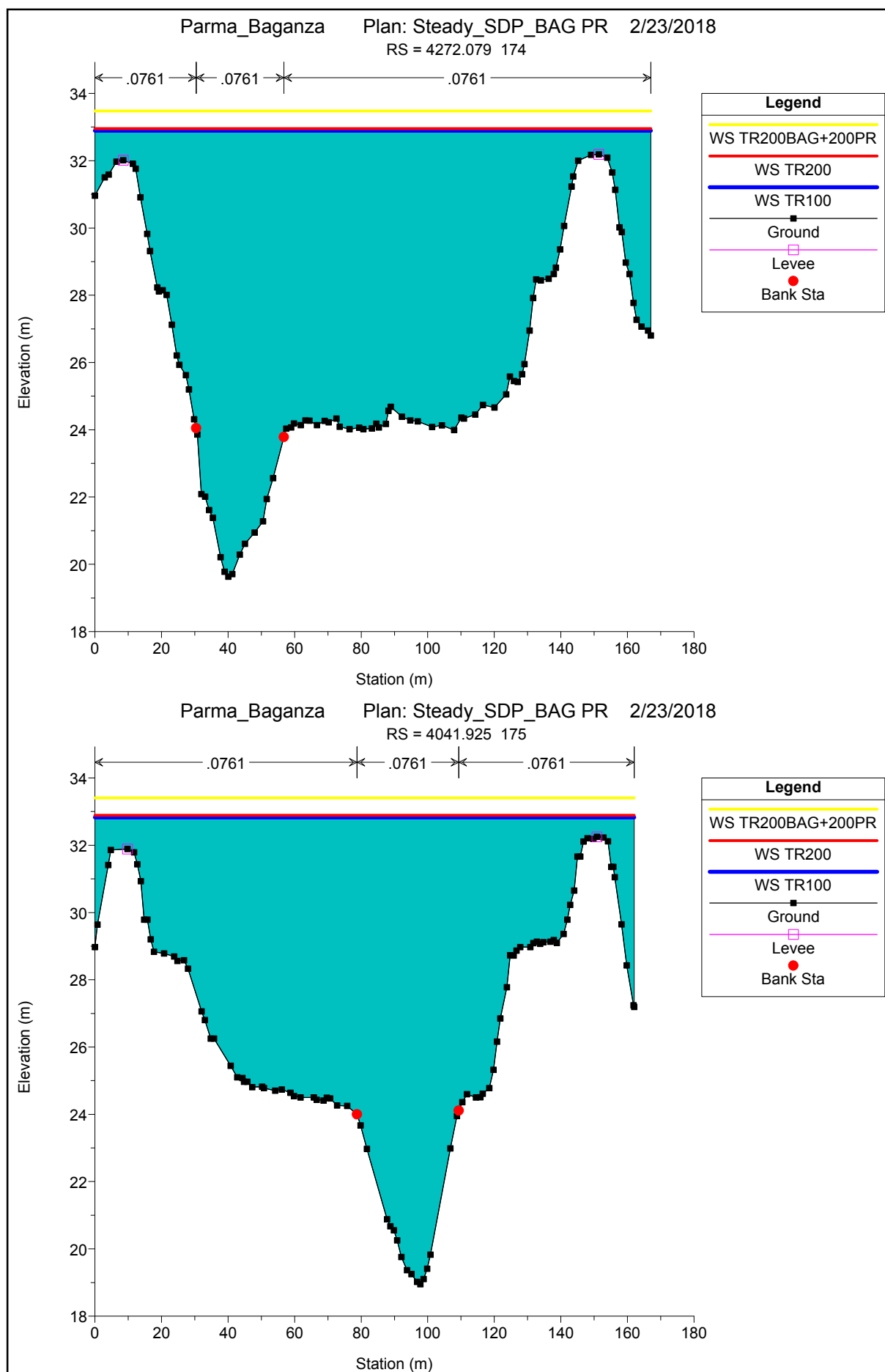


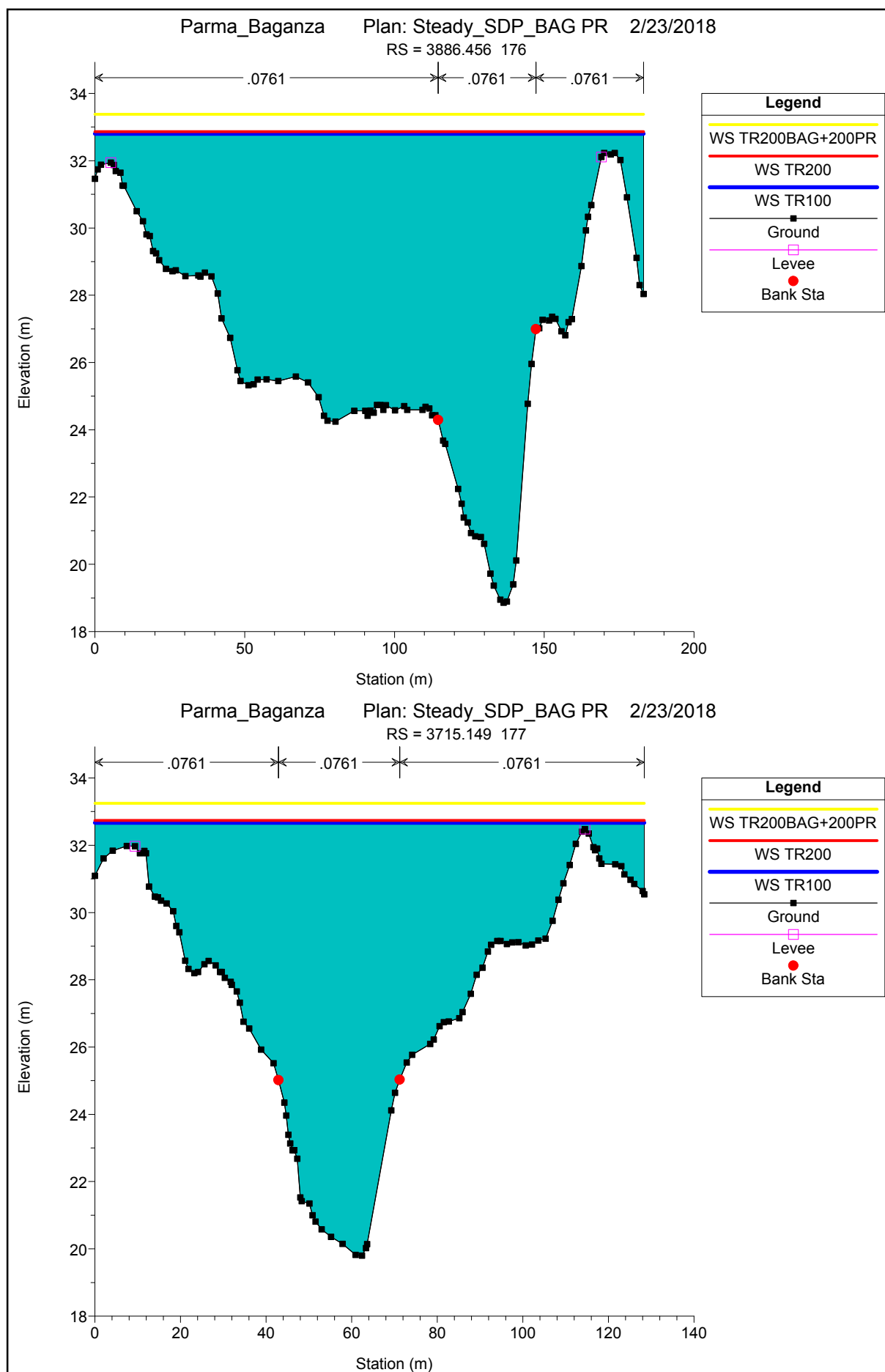


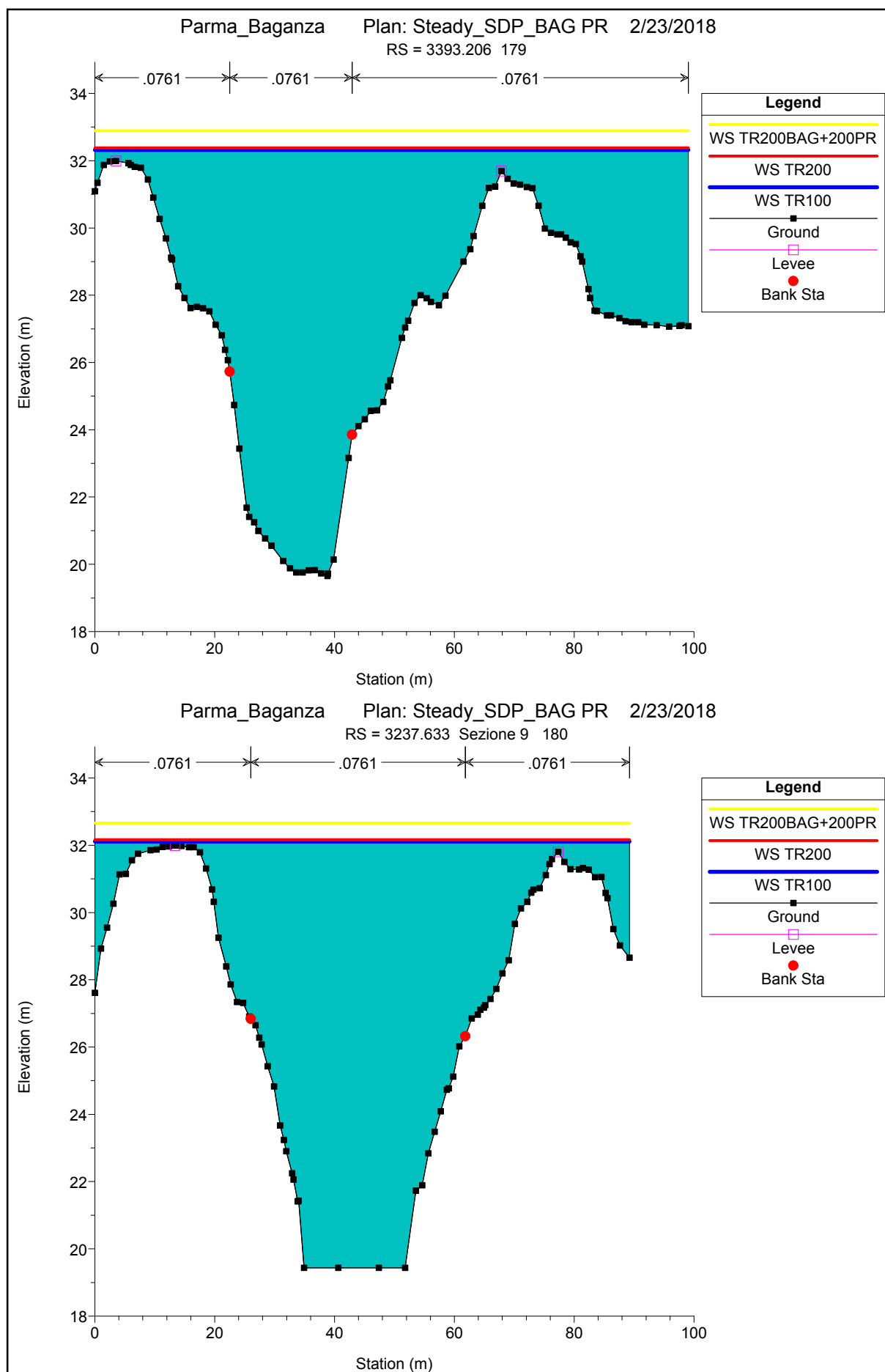




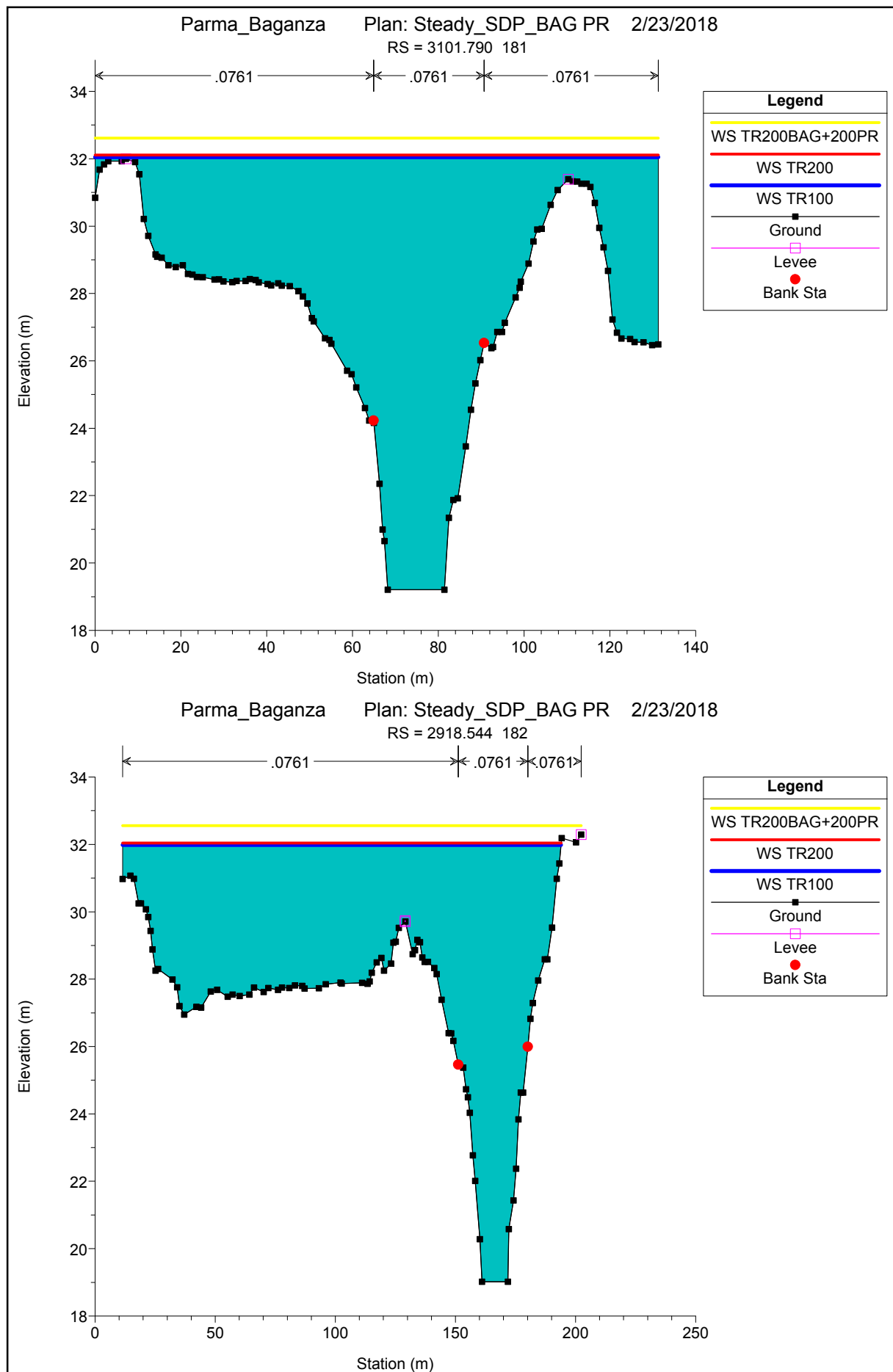


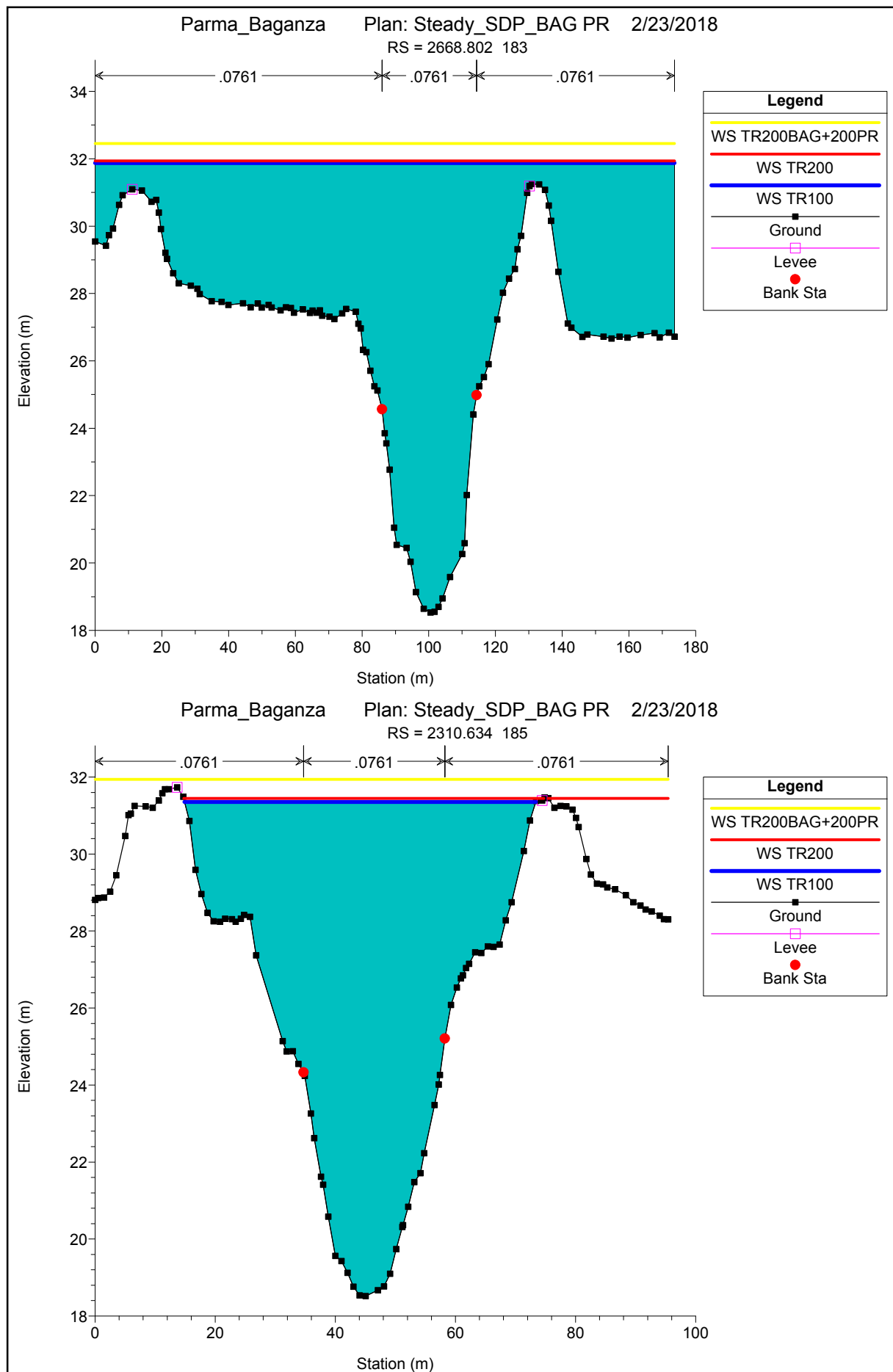


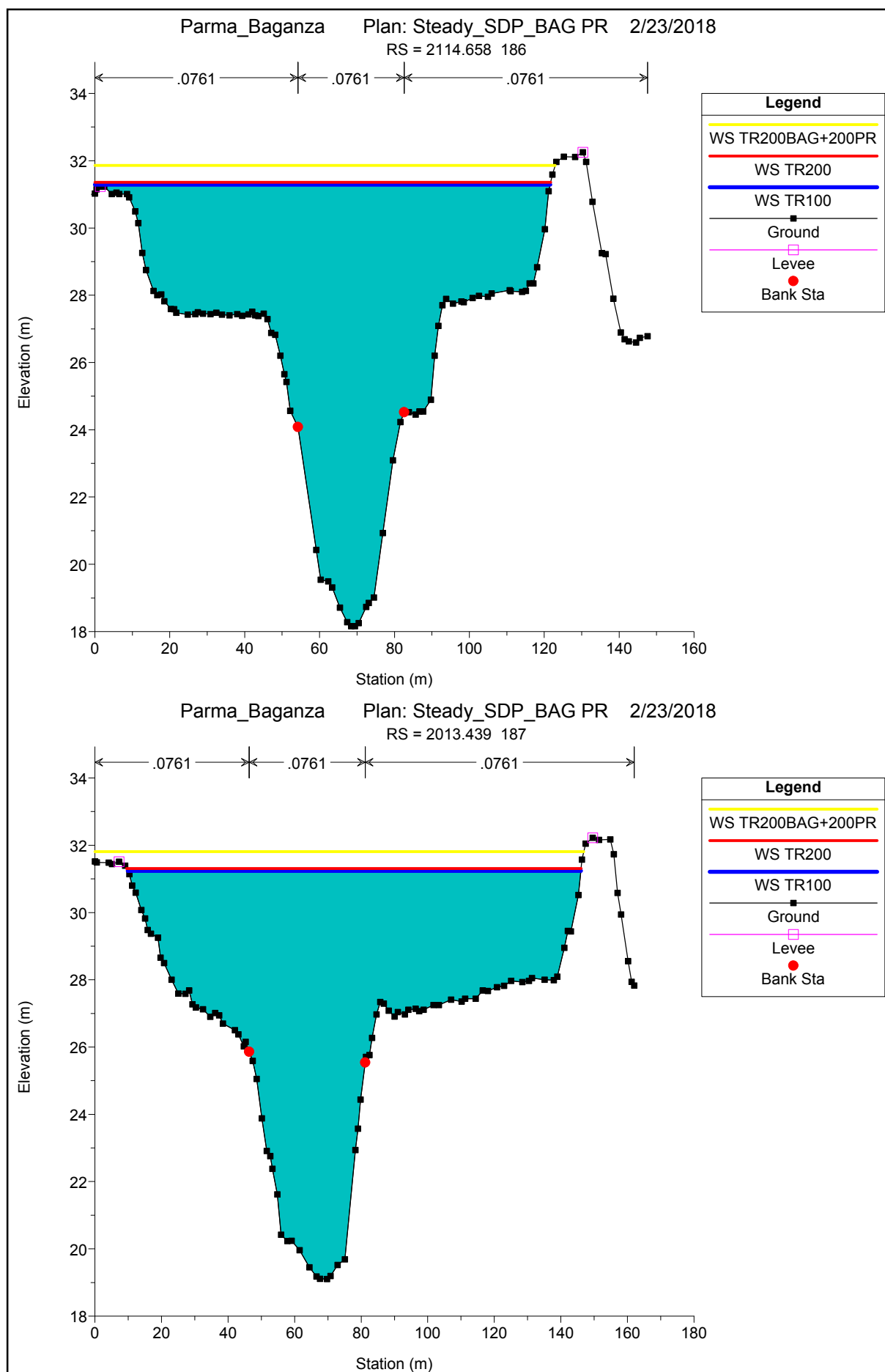


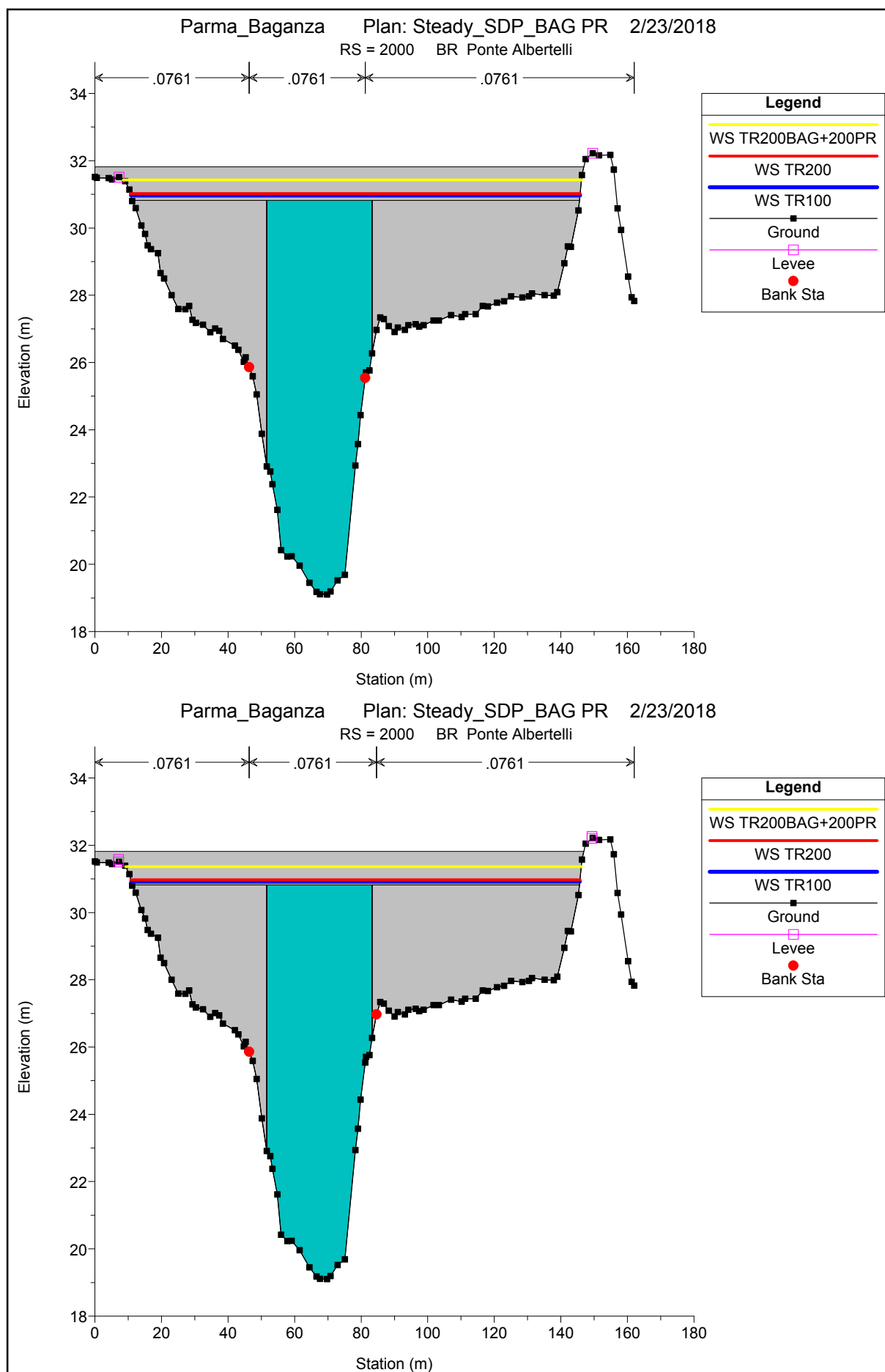




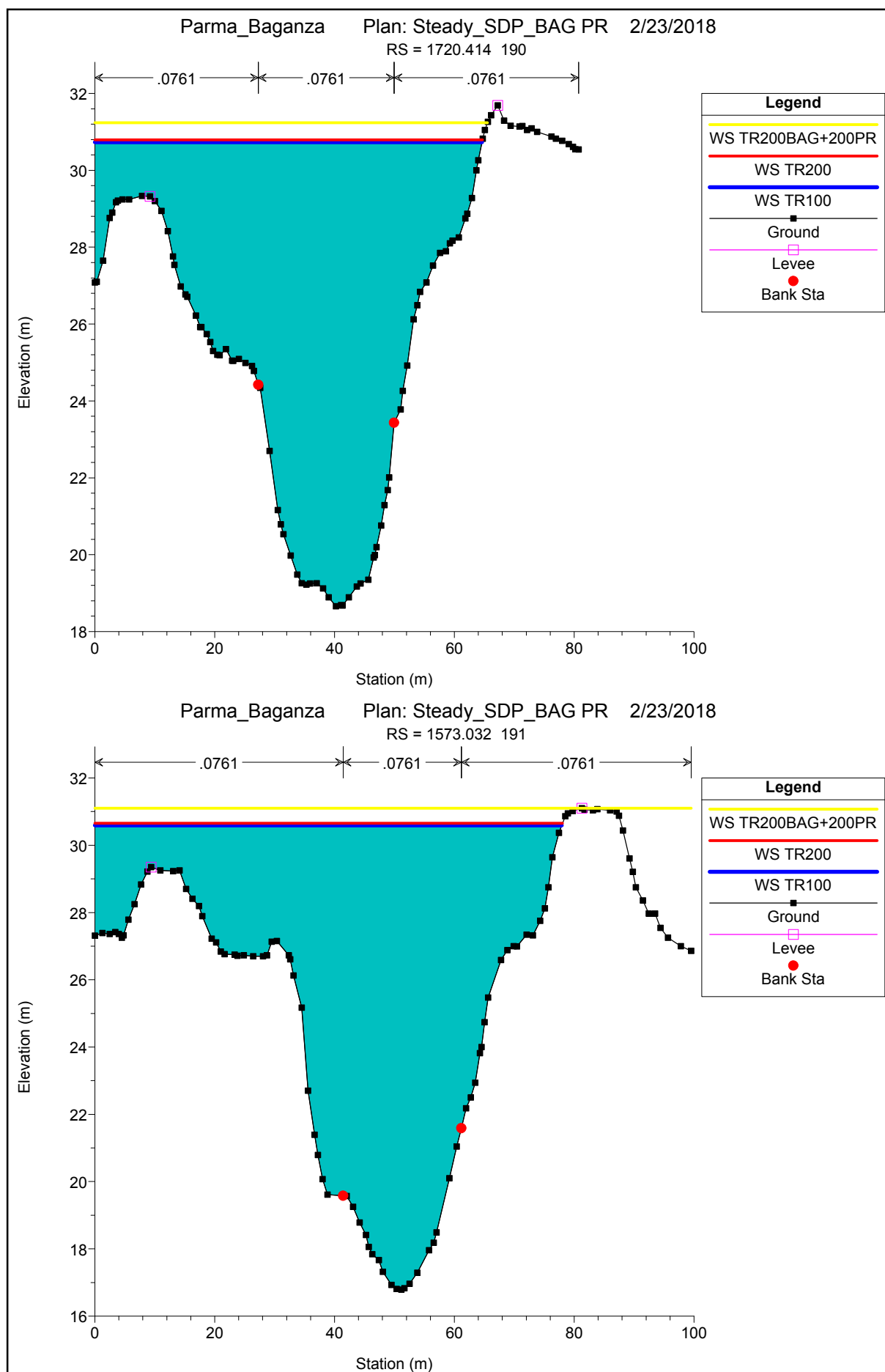


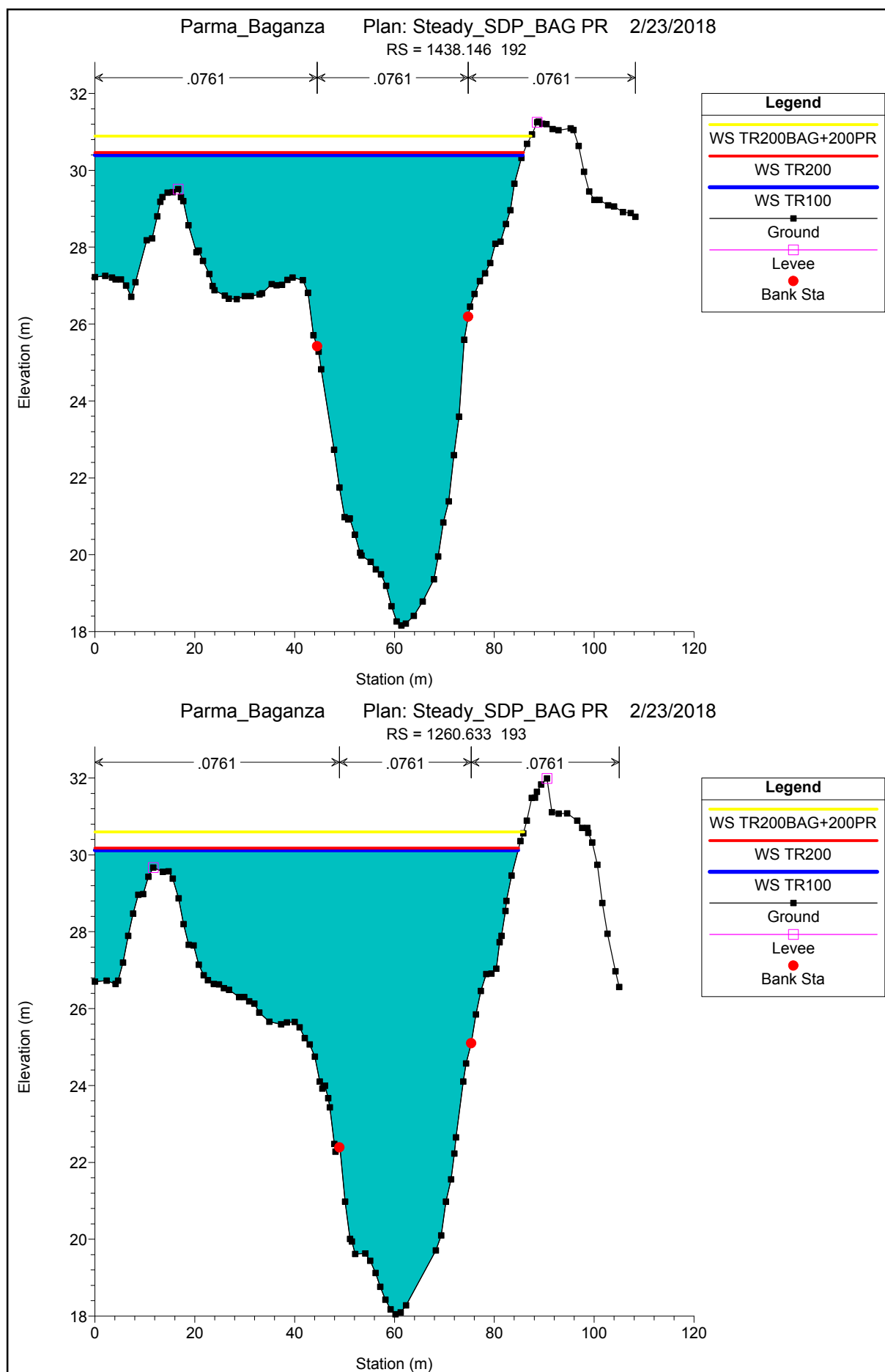


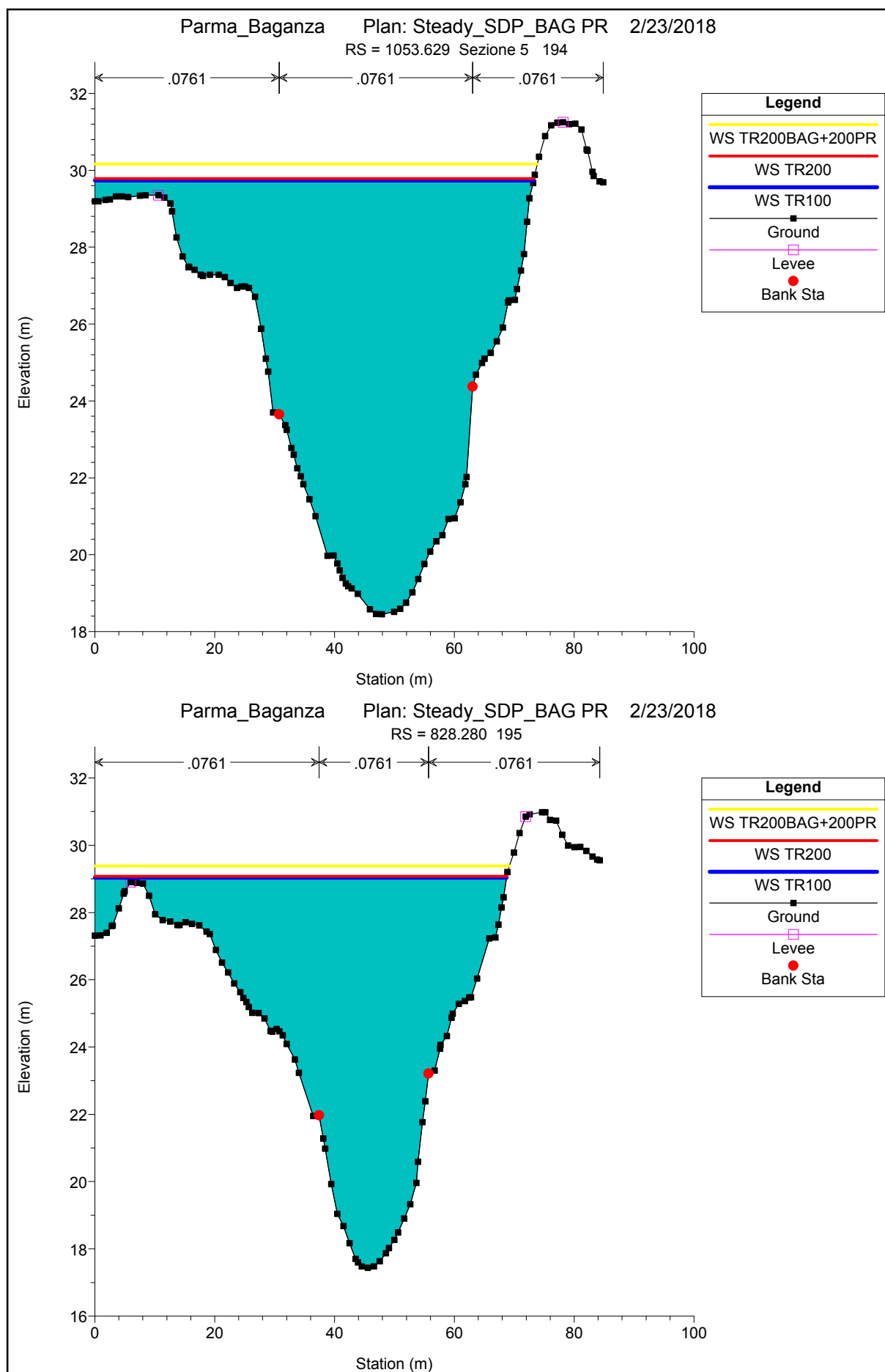




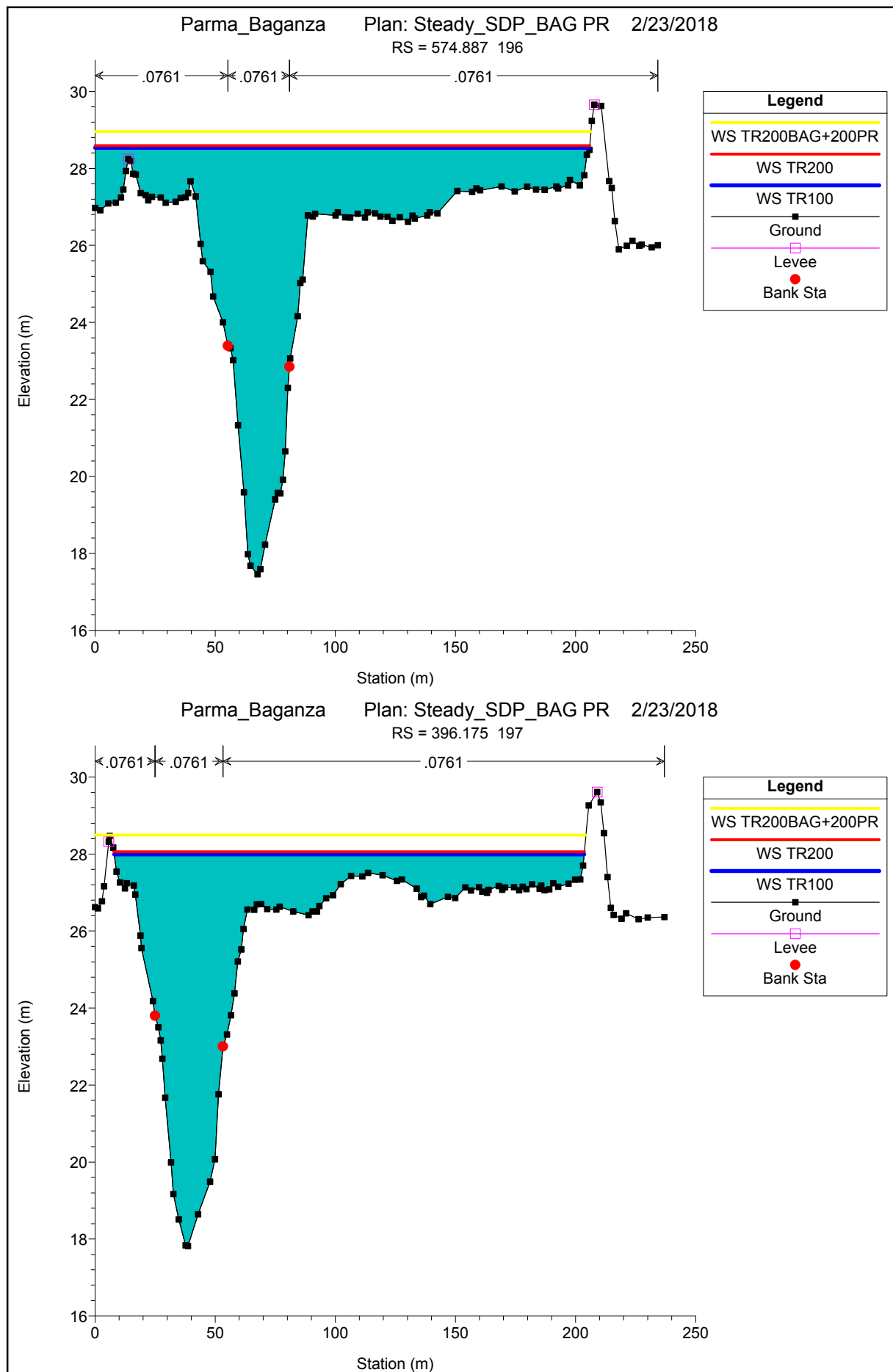


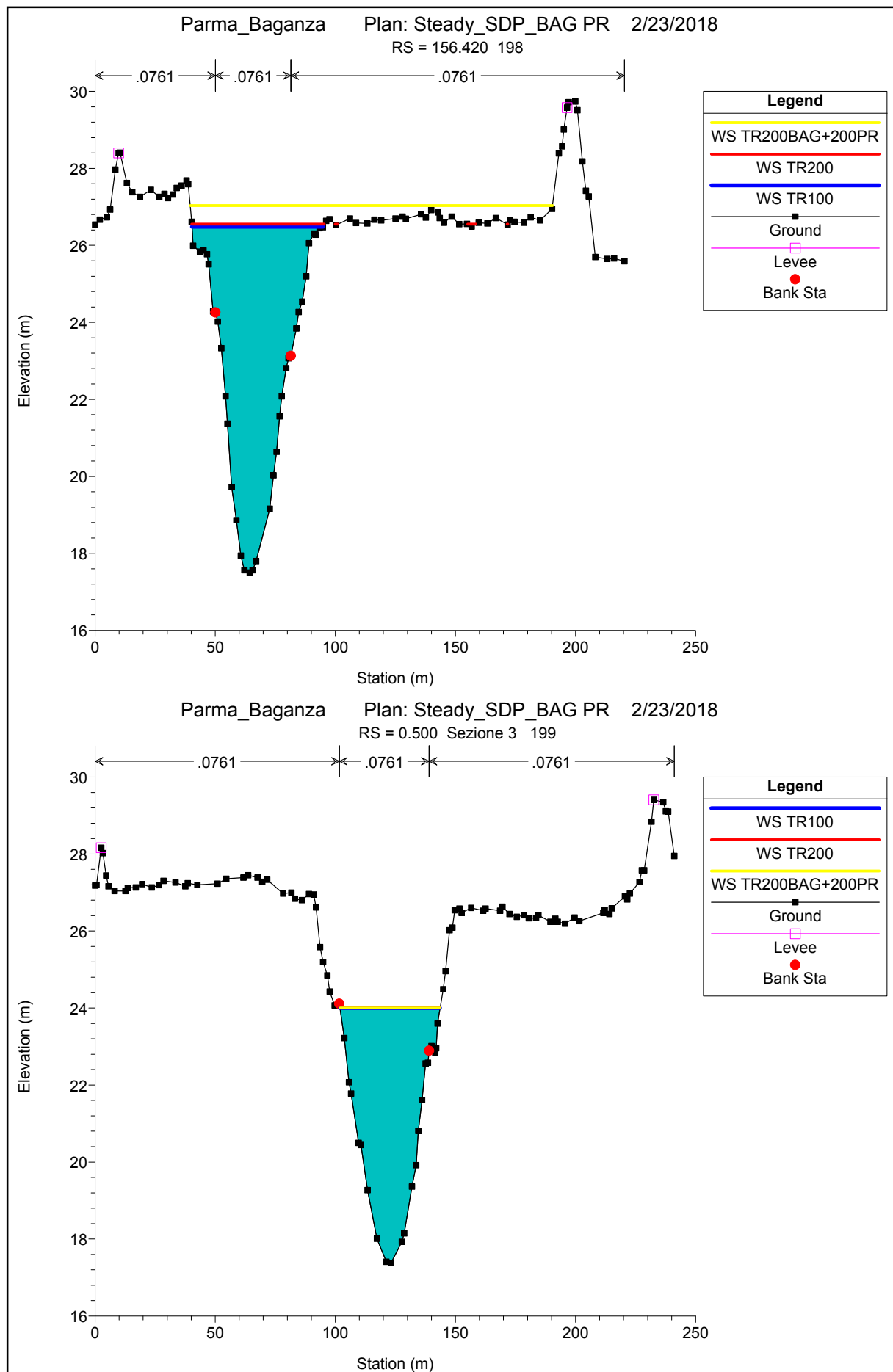












## APPENDICE 6

### PROFILI DI MOTO PERMANENTE – TORRENTE PARMA

#### STATO COMPARATIVO

Portate								
TR BAG	5	10	20	50	100	200	500	1000
Qmax (mc/s) BAG SDF					676	835		
Qmax (mc/s) BAG SDP					430	460		

Qmax (mc/s) PRmonte SDF					350	350		
Qmax (mc/s) PRmonte SDP					350	350		

Qmax (mc/s) PRvalle SDF					1026	835		
Qmax (mc/s) PRvalle SDP					795	810		

HEC-RAS River: Parma Reach: Valle

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	41049.52	TR100	Steady_SDF_PR	1026.00	56.21	59.77	59.77	60.57	0.008558	4.22	284.15	170.85	0.83
Valle	41049.52	TR100	SDP_PR	795.00	56.21	59.47	59.47	60.18	0.008666	3.92	233.68	166.15	0.82
Valle	41049.52	TR200	Steady_SDF_PR	1185.00	56.21	60.00	59.94	60.81	0.007859	4.29	325.11	175.02	0.81
Valle	41049.52	TR200	SDP_PR	810.00	56.21	59.49	59.49	60.21	0.008670	3.94	237.04	166.59	0.82
Valle	40973.87	TR100	Steady_SDF_PR	1026.00	56.21	59.80	59.00	60.18	0.003081	2.87	397.51	170.29	0.52
Valle	40973.87	TR100	SDP_PR	795.00	56.21	59.41	58.53	59.74	0.003115	2.64	331.75	166.17	0.51
Valle	40973.87	TR200	Steady_SDF_PR	1185.00	56.21	60.04	59.19	60.45	0.003064	3.00	439.00	171.78	0.52
Valle	40973.87	TR200	SDP_PR	810.00	56.21	59.43	58.57	59.77	0.003107	2.65	336.42	166.34	0.51
Valle	40961		Bridge										
Valle	40950.29	TR100	Steady_SDF_PR	1026.00	56.19	59.46	58.73	59.86	0.003545	2.90	386.77	176.80	0.54
Valle	40950.29	TR100	SDP_PR	795.00	56.19	59.06	58.40	59.41	0.003788	2.71	317.05	170.55	0.55
Valle	40950.29	TR200	Steady_SDF_PR	1185.00	56.19	59.73	58.93	60.15	0.003364	2.99	434.66	183.69	0.54
Valle	40950.29	TR200	SDP_PR	810.00	56.19	59.09	58.42	59.44	0.003759	2.72	322.06	170.94	0.55
Valle	40899.57	TR100	Steady_SDF_PR	1026.00	54.84	59.36	58.40	59.70	0.002740	2.68	413.49	166.71	0.48
Valle	40899.57	TR100	SDP_PR	795.00	54.84	58.97	58.08	59.25	0.002693	2.45	349.89	154.78	0.47
Valle	40899.57	TR200	Steady_SDF_PR	1185.00	54.84	59.63	58.59	60.00	0.002680	2.80	460.00	182.50	0.48
Valle	40899.57	TR200	SDP_PR	810.00	54.84	59.00	58.11	59.28	0.002691	2.47	354.42	156.00	0.47
Valle	40849.7	TR100	Steady_SDF_PR	1026.00	54.89	59.07	58.43	59.54	0.004027	3.14	361.52	177.19	0.58
Valle	40849.7	TR100	SDP_PR	795.00	54.89	58.67	58.05	59.08	0.004291	2.94	292.30	159.22	0.59
Valle	40849.7	TR200	Steady_SDF_PR	1185.00	54.89	59.37	58.65	59.84	0.003649	3.19	414.65	177.39	0.56
Valle	40849.7	TR200	SDP_PR	810.00	54.89	58.70	58.08	59.12	0.004253	2.95	297.21	159.43	0.58
Valle	40799.96	TR100	Steady_SDF_PR	1026.00	54.74	58.89	58.27	59.34	0.003869	3.09	368.16	171.41	0.57
Valle	40799.96	TR100	SDP_PR	795.00	54.74	58.43	57.86	58.87	0.004530	2.99	289.66	169.97	0.60
Valle	40799.96	TR200	Steady_SDF_PR	1185.00	54.74	59.22	58.49	59.67	0.003379	3.10	425.24	171.93	0.54
Valle	40799.96	TR200	SDP_PR	810.00	54.74	58.47	57.89	58.90	0.004423	2.99	296.35	170.13	0.60
Valle	40749	TR100	Steady_SDF_PR	1026.00	54.47	58.71	57.95	59.15	0.003575	3.05	371.43	159.73	0.55
Valle	40749	TR100	SDP_PR	795.00	54.47	58.24	57.63	58.65	0.004054	2.91	297.61	152.25	0.57
Valle	40749	TR200	Steady_SDF_PR	1185.00	54.47	59.07	58.18	59.50	0.003142	3.07	428.42	163.81	0.53
Valle	40749	TR200	SDP_PR	810.00	54.47	58.29	57.66	58.69	0.003940	2.90	304.56	152.84	0.57
Valle	40700.02	TR100	Steady_SDF_PR	1026.00	54.57	58.65	57.68	59.00	0.002616	2.78	413.84	161.95	0.48
Valle	40700.02	TR100	SDP_PR	795.00	54.57	58.15	57.29	58.48	0.002922	2.64	334.18	155.98	0.49
Valle	40700.02	TR200	Steady_SDF_PR	1185.00	54.57	59.02	57.87	59.37	0.002320	2.80	473.25	162.23	0.46
Valle	40700.02	TR200	SDP_PR	810.00	54.57	58.20	57.28	58.53	0.002837	2.63	342.02	157.24	0.49
Valle	40648.36	TR100	Steady_SDF_PR	1026.00	54.41	58.47	57.52	58.86	0.002961	2.89	390.73	155.52	0.51
Valle	40648.36	TR100	SDP_PR	795.00	54.41	57.95	57.15	58.32	0.003413	2.76	311.00	152.32	0.53
Valle	40648.36	TR200	Steady_SDF_PR	1185.00	54.41	58.86	57.73	59.24	0.002551	2.89	451.67	156.46	0.48
Valle	40648.36	TR200	SDP_PR	810.00	54.41	58.00	57.18	58.37	0.003352	2.77	318.50	153.30	0.53
Valle	40591.9	TR100	Steady_SDF_PR	1026.00	54.20	58.16	57.44	58.66	0.004207	3.43	348.37	147.84	0.61
Valle	40591.9	TR100	SDP_PR	795.00	54.20	57.46	57.20	58.05	0.006751	3.69	246.39	139.50	0.74
Valle	40591.9	TR200	Steady_SDF_PR	1185.00	54.20	58.63	57.77	59.08	0.003220	3.28	417.89	150.23	0.54
Valle	40591.9	TR200	SDP_PR	810.00	54.20	57.47	57.22	58.10	0.007201	3.82	247.63	140.62	0.76
Valle	40548.99	TR100	Steady_SDF_PR	1026.00	54.14	58.30	56.80	58.55	0.001621	2.33	472.83	148.59	0.39
Valle	40548.99	TR100	SDP_PR	795.00	54.14	57.68	56.49	57.91	0.001911	2.25	381.04	146.97	0.41
Valle	40548.99	TR200	Steady_SDF_PR	1185.00	54.14	58.73	56.98	58.99	0.001447	2.37	537.32	150.16	0.37
Valle	40548.99	TR200	SDP_PR	810.00	54.14	57.72	56.51	57.96	0.001888	2.25	387.14	147.07	0.40
Valle	40538		Bridge										
Valle	40528.82	TR100	Steady_SDF_PR	1026.00	54.16	58.21	56.73	58.47	0.001691	2.36	468.58	152.68	0.39
Valle	40528.82	TR100	SDP_PR	795.00	54.16	57.58	56.43	57.82	0.002000	2.27	375.48	146.23	0.41
Valle	40528.82	TR200	Steady_SDF_PR	1185.00	54.16	58.63	56.92	58.90	0.001522	2.41	533.49	158.25	0.38
Valle	40528.82	TR200	SDP_PR	810.00	54.16	57.62	56.45	57.87	0.001973	2.27	381.73	146.46	0.41
Valle	40477.21	TR100	Steady_SDF_PR	1026.00	53.19	58.17	56.32	58.39	0.001253	2.21	506.51	148.10	0.35
Valle	40477.21	TR100	SDP_PR	795.00	53.19	57.53	55.95	57.74	0.001416	2.10	412.08	147.88	0.36
Valle	40477.21	TR200	Steady_SDF_PR	1185.00	53.19	58.59	56.57	58.83	0.001163	2.27	568.98	148.10	0.34
Valle	40477.21	TR200	SDP_PR	810.00	53.19	57.57	55.98	57.78	0.001402	2.11	418.52	147.91	0.36
Valle	40413.99	TR100	Steady_SDF_PR	1026.00	53.02	58.04	56.30	58.31	0.001400	2.44	469.07	134.51	0.37
Valle	40413.99	TR100	SDP_PR	795.00	53.02	57.40	55.82	57.64	0.001552	2.31	382.47	134.32	0.38
Valle	40413.99	TR200	Steady_SDF_PR	1185.00	53.02	58.47	56.54	58.75	0.001311	2.51	526.28	134.51	0.36
Valle	40413.99	TR200	SDP_PR	810.00	53.02	57.44	55.85	57.69	0.001539	2.32	388.40	134.34	0.38
Valle	40350.05	TR100	Steady_SDF_PR	1026.00	52.39	57.89	56.21	58.21	0.001623	2.66	432.46	123.98	0.40
Valle	40350.05	TR100	SDP_PR	795.00	52.39	57.24	55.67	57.54	0.001787	2.52	351.94	123.75	0.41
Valle	40350.05	TR200	Steady_SDF_PR	1185.00	52.39	58.32	56.54	58.66	0.001523	2.73	485.72	124.13	0.39
Valle	40350.05	TR200	SDP_PR	810.00	52.39	57.29	55.70	57.58	0.001774	2.53	357.47	123.76	0.40
Valle	40299.14	TR100	Steady_SDF_PR	1026.00	52.21	57.58	56.24	58.11	0.002760	3.33	336.78	114.22	0.51
Valle	40299.14	TR100	SDP_PR	795.00	52.21	56.96	55.77	57.42	0.002888	3.08	274.85	91.04	0.51
Valle	40299.14	TR200	Steady_SDF_PR	1185.00	52.21	58.01	56.52	58.56	0.002565	3.42	388.24	120.73	0.50
Valle	40299.14	TR200	SDP_PR	810.00	52.21	57.01	55.81	57.47	0.002877	3.09	278.71	91.36	0.51
Valle	40250.72	TR100	Steady_SDF_PR	1026.00	52.08	57.66	56.16	58.00	0.001699	2.82	418.59	114.71	0.41
Valle	40250.72	TR100	SDP_PR	795.00	52.08	56.99	55.69	57.31	0.001878	2.69	342.27	114.71	0.42
Valle	40250.72	TR200	Steady_SDF_PR	1185.00	52.08	58.10	56.39	58.46	0.001594	2.90	469.14	114.71	0.40
Valle	40250.72	TR200	SDP_PR	810.00	52.08	57.04	55.69	57.36	0.001862	2.70	347.57	114.71	0.42
Valle	40199.78	TR100	Steady_SDF_PR	1026.00	52.22	57.56	56.02	57.91	0.001748	2.85	410.46	108.41	0.42
Valle	40199.78	TR100	SDP_PR	795.00	52.22	56.90	55.66	57.21	0.001910	2.70	338.15	108.41	0.42
Valle	40199.78	TR200	Steady_SDF_PR	1185.00	52.22	58.01	56.24	58.38	0.001652	2.94	458.38	108.41	0.41
Valle	40199.78	TR200	SDP_PR	810.00	52.22	56.94	55.68	57.26	0.001895	2.71	343.20	108.41	0.42

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	40150.4	TR100	Steady_SDF_PR	1026.00	52.07	57.35	55.84	57.82	0.002186	3.20	359.14	97.91	0.46
Valle	40150.4	TR100	SDP_PR	795.00	52.07	56.70	55.40	57.11	0.002303	2.98	295.25	96.44	0.47
Valle	40150.4	TR200	Steady_SDF_PR	1185.00	52.07	57.80	56.14	58.29	0.002066	3.30	402.64	98.18	0.46
Valle	40150.4	TR200	SDP_PR	810.00	52.07	56.73	55.44	57.16	0.002348	3.02	298.66	97.53	0.47
Valle	40116.57	TR100	Steady_SDF_PR	1026.00	51.98	57.34	55.42	57.75	0.001789	2.93	374.60	89.38	0.42
Valle	40116.57	TR100	SDP_PR	795.00	51.98	56.70	54.98	57.04	0.001789	2.66	317.55	88.23	0.41
Valle	40116.57	TR200	Steady_SDF_PR	1185.00	51.98	57.77	55.69	58.22	0.001757	3.07	413.22	89.38	0.42
Valle	40116.57	TR200	SDP_PR	810.00	51.98	56.74	55.01	57.09	0.001792	2.68	321.27	88.30	0.41
Valle	40105		Bridge										
Valle	40094.97	TR100	Steady_SDF_PR	1026.00	51.84	57.19	55.28	57.61	0.001843	2.97	369.86	88.19	0.43
Valle	40094.97	TR100	SDP_PR	795.00	51.84	56.61	54.84	56.95	0.001763	2.67	318.21	88.19	0.41
Valle	40094.97	TR200	Steady_SDF_PR	1185.00	51.84	57.57	55.55	58.04	0.001881	3.15	402.97	88.19	0.44
Valle	40094.97	TR200	SDP_PR	810.00	51.84	56.65	54.86	56.99	0.001770	2.69	321.70	88.19	0.41
Valle	40064.68	TR100	Steady_SDF_PR	1026.00	51.68	57.12	55.44	57.55	0.002013	3.02	365.50	90.64	0.44
Valle	40064.68	TR100	SDP_PR	795.00	51.68	56.54	54.95	56.89	0.001959	2.73	312.51	90.14	0.43
Valle	40064.68	TR200	Steady_SDF_PR	1185.00	51.68	57.50	55.71	57.98	0.002033	3.19	399.74	90.92	0.45
Valle	40064.68	TR200	SDP_PR	810.00	51.68	56.58	54.97	56.94	0.001964	2.75	316.06	90.19	0.43
Valle	40012.82	TR100	Steady_SDF_PR	1026.00	51.50	56.97	55.36	57.44	0.002192	3.18	347.67	85.02	0.46
Valle	40012.82	TR100	SDP_PR	795.00	51.50	56.40	54.86	56.79	0.002091	2.85	299.31	85.02	0.44
Valle	40012.82	TR200	Steady_SDF_PR	1185.00	51.50	57.33	55.63	57.87	0.002238	3.37	378.80	85.02	0.47
Valle	40012.82	TR200	SDP_PR	810.00	51.50	56.44	54.90	56.83	0.002100	2.88	302.55	85.02	0.44
Valle	39955.61	TR100	Steady_SDF_PR	1026.00	51.50	56.85	55.30	57.32	0.002200	3.17	350.41	87.33	0.46
Valle	39955.61	TR100	SDP_PR	795.00	51.50	56.28	54.83	56.67	0.002115	2.86	301.00	86.95	0.45
Valle	39955.61	TR200	Steady_SDF_PR	1185.00	51.50	57.22	55.57	57.74	0.002232	3.36	382.49	87.38	0.47
Valle	39955.61	TR200	SDP_PR	810.00	51.50	56.32	54.86	56.71	0.002123	2.88	304.29	86.97	0.45
Valle	39901.11	TR100	Steady_SDF_PR	1026.00	51.33	56.72	55.35	57.19	0.002410	3.22	349.09	92.69	0.48
Valle	39901.11	TR100	SDP_PR	795.00	51.33	56.14	54.87	56.54	0.002408	2.94	295.84	92.48	0.48
Valle	39901.11	TR200	Steady_SDF_PR	1185.00	51.33	57.09	55.60	57.61	0.002394	3.38	383.81	92.82	0.49
Valle	39901.11	TR200	SDP_PR	810.00	51.33	56.18	54.91	56.59	0.002411	2.96	299.36	92.50	0.47
Valle	39850.29	TR100	Steady_SDF_PR	1026.00	51.46	56.56	55.36	57.06	0.002750	3.31	338.78	94.94	0.51
Valle	39850.29	TR100	SDP_PR	795.00	51.46	55.97	54.91	56.41	0.002873	3.07	283.17	94.94	0.51
Valle	39850.29	TR200	Steady_SDF_PR	1185.00	51.46	56.94	55.60	57.49	0.002671	3.46	374.99	94.94	0.51
Valle	39850.29	TR200	SDP_PR	810.00	51.46	56.01	54.94	56.45	0.002867	3.09	286.83	94.94	0.51
Valle	39797.19	TR100	Steady_SDF_PR	1026.00	51.45	56.36	55.30	56.91	0.003078	3.44	326.81	96.88	0.54
Valle	39797.19	TR100	SDP_PR	795.00	51.45	55.75	54.82	56.24	0.003389	3.25	267.58	96.88	0.55
Valle	39797.19	TR200	Steady_SDF_PR	1185.00	51.45	56.76	55.55	57.34	0.002915	3.56	365.14	96.88	0.53
Valle	39797.19	TR200	SDP_PR	810.00	51.45	55.79	54.85	56.29	0.003370	3.27	271.46	96.88	0.55
Valle	39764.09	TR100	Steady_SDF_PR	1026.00	51.28	56.33	54.88	56.82	0.002387	3.22	343.41	88.54	0.48
Valle	39764.09	TR100	SDP_PR	795.00	51.28	55.74	54.32	56.15	0.002383	2.93	291.48	87.89	0.47
Valle	39764.09	TR200	Steady_SDF_PR	1185.00	51.28	56.71	55.14	57.25	0.002374	3.39	377.38	89.12	0.49
Valle	39764.09	TR200	SDP_PR	810.00	51.28	55.78	54.48	56.19	0.002387	2.96	294.87	87.94	0.47
Valle	39755		Bridge										
Valle	39746.83	TR100	Steady_SDF_PR	1026.00	51.37	56.21	54.87	56.72	0.002573	3.31	337.45	90.25	0.50
Valle	39746.83	TR100	SDP_PR	795.00	51.37	55.66	54.38	56.08	0.002532	3.01	287.37	89.31	0.48
Valle	39746.83	TR200	Steady_SDF_PR	1185.00	51.37	56.56	55.13	57.13	0.002609	3.50	368.69	90.81	0.51
Valle	39746.83	TR200	SDP_PR	810.00	51.37	55.69	54.41	56.12	0.002535	3.03	290.79	89.41	0.48
Valle	39726.27	TR100	Steady_SDF_PR	1026.00	50.70	56.16	54.62	56.67	0.002314	3.31	338.69	87.19	0.47
Valle	39726.27	TR100	SDP_PR	795.00	50.70	55.61	53.93	56.03	0.002166	2.96	291.37	86.56	0.45
Valle	39726.27	TR200	Steady_SDF_PR	1185.00	50.70	56.49	54.95	57.07	0.002404	3.52	368.13	87.59	0.49
Valle	39726.27	TR200	SDP_PR	810.00	50.70	55.65	53.98	56.08	0.002177	2.99	294.61	86.61	0.45
Valle	39693.8	TR100	Steady_SDF_PR	1026.00	50.72	55.91	54.95	56.58	0.003408	3.83	301.17	89.92	0.57
Valle	39693.8	TR100	SDP_PR	795.00	50.72	55.36	54.41	55.95	0.003410	3.52	252.05	89.55	0.56
Valle	39693.8	TR200	Steady_SDF_PR	1185.00	50.72	56.25	55.30	56.98	0.003424	4.03	331.57	90.15	0.58
Valle	39693.8	TR200	SDP_PR	810.00	50.72	55.40	54.45	55.99	0.003411	3.55	255.40	89.58	0.56
Valle	39650.48	TR100	Steady_SDF_PR	1026.00	50.60	55.80	54.84	56.44	0.003136	3.75	309.84	90.00	0.55
Valle	39650.48	TR100	SDP_PR	795.00	50.60	55.26	54.20	55.81	0.003102	3.44	260.61	90.00	0.54
Valle	39650.48	TR200	Steady_SDF_PR	1185.00	50.60	56.14	55.11	56.84	0.003177	3.95	340.04	90.00	0.56
Valle	39650.48	TR200	SDP_PR	810.00	50.60	55.29	54.25	55.85	0.003105	3.46	263.98	90.00	0.54
Valle	39599.16	TR100	Steady_SDF_PR	1026.00	50.37	55.64	54.49	56.28	0.003210	3.73	308.18	90.44	0.55
Valle	39599.16	TR100	SDP_PR	795.00	50.37	55.10	54.00	55.64	0.003172	3.41	259.15	90.25	0.54
Valle	39599.16	TR200	Steady_SDF_PR	1185.00	50.37	55.97	54.55	56.68	0.003252	3.93	338.25	90.55	0.56
Valle	39599.16	TR200	SDP_PR	810.00	50.37	55.13	54.02	55.69	0.003176	3.43	262.48	90.26	0.54
Valle	39559.2	TR100	Steady_SDF_PR	1026.00	50.32	55.50	54.37	56.15	0.003346	3.73	303.97	89.29	0.56
Valle	39559.2	TR100	SDP_PR	795.00	50.32	54.96	53.87	55.52	0.003304	3.41	256.04	89.29	0.55
Valle	39559.2	TR200	Steady_SDF_PR	1185.00	50.32	55.82	54.81	56.54	0.003402	3.94	333.03	89.29	0.57
Valle	39559.2	TR200	SDP_PR	810.00	50.32	55.00	53.97	55.56	0.003309	3.43	259.30	89.29	0.55
Valle	39504.2	TR100	Steady_SDF_PR	1026.00	50.35	55.28	54.24	55.96	0.003524	3.76	297.41	90.88	0.57
Valle	39504.2	TR100	SDP_PR	795.00	50.35	54.75	53.66	55.33	0.003491	3.43	249.11	90.51	0.56
Valle	39504.2	TR200	Steady_SDF_PR	1185.00	50.35	55.61	54.52	56.35	0.003570	3.97	326.81	91.14	0.59
Valle	39504.2	TR200	SDP_PR	810.00	50.35	54.79	53.70	55.37	0.003498	3.46	252.35	90.54	0.56
Valle	39456.43	TR100	Steady_SDF_PR	1026.00	50.09	54.99	54.14	55.78	0.004379	4.02	274.97	95.39	0.63
Valle	39456.43	TR100	SDP_PR	795.00	50.09	54.49	53.54	55.15	0.004267	3.64	229.50	85.57	0.61
Valle	39456.43	TR200	Steady_SDF_PR	1185.00	50.09	55.31	54.49	56.17	0.004362	4.22	305.96	96.33	0.64
Valle	39456.43	TR200	SDP_PR	810.00	50.09	54.52	53.58	55.19	0.004284	3.67	232.33	86.12	0.61

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	39400.91	TR100	Steady_SDF_PR	1026.00	50.15	54.62	54.07	55.51	0.005123	4.36	258.99	83.58	0.69
Valle	39400.91	TR100	SDP_PR	795.00	50.15	54.15	53.60	54.89	0.004939	3.94	220.11	81.50	0.66
Valle	39400.91	TR200	Steady_SDF_PR	1185.00	50.15	54.88	54.35	55.90	0.005414	4.67	281.03	87.61	0.71
Valle	39400.91	TR200	SDP_PR	810.00	50.15	54.18	53.63	54.93	0.004961	3.97	222.62	81.59	0.66
Valle	39352.67	TR100	Steady_SDF_PR	1026.00	50.01	54.82	53.61	55.34	0.002699	3.36	338.82	95.91	0.51
Valle	39352.67	TR100	SDP_PR	795.00	50.01	54.29	53.20	54.72	0.002638	3.05	288.28	94.33	0.49
Valle	39352.67	TR200	Steady_SDF_PR	1185.00	50.01	55.14	53.87	55.72	0.002764	3.56	369.55	96.60	0.52
Valle	39352.67	TR200	SDP_PR	810.00	50.01	54.33	53.23	54.76	0.002646	3.07	291.59	94.42	0.49
Valle	39335		Bridge										
Valle	39319.83	TR100	Steady_SDF_PR	1026.00	49.92	54.71	53.31	55.14	0.002266	3.10	367.24	99.20	0.46
Valle	39319.83	TR100	SDP_PR	795.00	49.92	54.18	52.94	54.53	0.002181	2.80	315.37	98.40	0.45
Valle	39319.83	TR200	Steady_SDF_PR	1185.00	49.92	55.02	53.55	55.50	0.002354	3.30	398.23	100.01	0.48
Valle	39319.83	TR200	SDP_PR	810.00	49.92	54.22	52.96	54.57	0.002191	2.82	318.73	98.46	0.45
Valle	39286.41	TR100	Steady_SDF_PR	1026.00	49.57	54.43	53.41	55.04	0.003341	3.64	309.95	92.15	0.56
Valle	39286.41	TR100	SDP_PR	795.00	49.57	53.93	52.95	54.45	0.003210	3.29	264.57	91.87	0.54
Valle	39286.41	TR200	Steady_SDF_PR	1185.00	49.57	54.71	53.72	55.41	0.003485	3.88	336.22	92.31	0.58
Valle	39286.41	TR200	SDP_PR	810.00	49.57	53.97	52.98	54.49	0.003229	3.32	267.44	91.89	0.54
Valle	39243.29	TR100	Steady_SDF_PR	1026.00	49.53	54.24	53.20	54.90	0.003547	3.73	297.82	86.99	0.58
Valle	39243.29	TR100	SDP_PR	795.00	49.53	53.79	52.76	54.31	0.003215	3.30	259.60	84.32	0.54
Valle	39243.29	TR200	Steady_SDF_PR	1185.00	49.53	54.49	53.50	55.25	0.003799	4.02	320.09	87.17	0.60
Valle	39243.29	TR200	SDP_PR	810.00	49.53	53.82	52.79	54.35	0.003245	3.33	262.02	84.40	0.54
Valle	39206.79	TR100	Steady_SDF_PR	1026.00	49.36	54.07	53.14	54.76	0.003839	3.81	290.31	87.24	0.60
Valle	39206.79	TR100	SDP_PR	795.00	49.36	53.65	52.66	54.19	0.003435	3.36	253.98	84.42	0.56
Valle	39206.79	TR200	Steady_SDF_PR	1185.00	49.36	54.30	53.42	55.11	0.004177	4.12	310.63	88.03	0.63
Valle	39206.79	TR200	SDP_PR	810.00	49.36	53.67	52.68	54.22	0.003473	3.39	256.21	84.52	0.56
Valle	39155.52	TR100	Steady_SDF_PR	1026.00	49.40	54.27	52.57	54.63	0.001848	2.74	414.16	129.19	0.42
Valle	39155.52	TR100	SDP_PR	795.00	49.40	53.76	52.11	54.06	0.001809	2.50	347.93	129.19	0.41
Valle	39155.52	TR200	Steady_SDF_PR	1185.00	49.40	54.57	52.88	54.97	0.001904	2.91	452.67	129.19	0.43
Valle	39155.52	TR200	SDP_PR	810.00	49.40	53.79	52.13	54.10	0.001818	2.52	352.04	129.19	0.41
Valle	39132		Bridge										
Valle	39109.88	TR100	Steady_SDF_PR	1026.00	48.53	54.23	51.45	54.46	0.000933	2.21	502.66	125.44	0.31
Valle	39109.88	TR100	SDP_PR	795.00	48.53	53.74	51.02	53.92	0.000802	1.92	442.37	119.98	0.28
Valle	39109.88	TR200	Steady_SDF_PR	1185.00	48.53	54.51	51.72	54.79	0.001022	2.40	538.59	127.52	0.32
Valle	39109.88	TR200	SDP_PR	810.00	48.53	53.77	51.04	53.95	0.000813	1.94	446.00	120.33	0.28
Valle	39046.46	TR100	Steady_SDF_PR	1026.00	47.02	53.71	52.70	54.36	0.003258	3.77	318.62	118.97	0.56
Valle	39046.46	TR100	SDP_PR	795.00	47.02	53.29	51.79	53.83	0.002965	3.38	268.81	116.73	0.52
Valle	39046.46	TR200	Steady_SDF_PR	1185.00	47.02	53.94	53.25	54.68	0.003506	4.04	346.27	119.85	0.58
Valle	39046.46	TR200	SDP_PR	810.00	47.02	53.31	51.84	53.86	0.003010	3.42	271.39	116.81	0.53
Valle	39001.37	TR100	Steady_SDF_PR	1026.00	47.23	53.57	52.88	54.21	0.003491	3.76	326.22	133.60	0.57
Valle	39001.37	TR100	SDP_PR	795.00	47.23	53.14	51.71	53.69	0.003239	3.43	269.25	125.56	0.54
Valle	39001.37	TR200	Steady_SDF_PR	1185.00	47.23	53.82	53.19	54.52	0.003631	3.97	359.18	134.53	0.58
Valle	39001.37	TR200	SDP_PR	810.00	47.23	53.16	51.75	53.72	0.003299	3.47	271.58	125.91	0.54
Valle	38950.51	TR100	Steady_SDF_PR	1026.00	47.15	52.96	52.96	53.98	0.006305	4.65	261.67	142.16	0.75
Valle	38950.51	TR100	SDP_PR	795.00	47.15	52.70	51.72	53.49	0.005154	4.02	225.06	137.37	0.67
Valle	38950.51	TR200	Steady_SDF_PR	1185.00	47.15	53.21	53.21	54.28	0.006279	4.84	298.05	145.60	0.75
Valle	38950.51	TR200	SDP_PR	810.00	47.15	52.65	51.77	53.51	0.005632	4.17	219.17	133.27	0.70
Valle	38016.02	TR100	Steady_SDF_PR	1026.00	46.85	52.84	52.84	53.75	0.006718	4.45	277.26	155.21	0.75
Valle	38016.02	TR100	SDP_PR	795.00	46.85	52.20	52.20	53.30	0.009385	4.69	181.58	117.39	0.87
Valle	38016.02	TR200	Steady_SDF_PR	1185.00	46.85	53.06	53.06	54.01	0.006748	4.64	311.18	156.79	0.76
Valle	38016.02	TR200	SDP_PR	810.00	46.85	52.47	52.47	53.33	0.007054	4.23	219.25	152.77	0.76
Valle	37851.49	TR100	Steady_SDF_PR	1026.00	46.61	52.66	51.71	52.93	0.001871	2.74	487.83	211.25	0.41
Valle	37851.49	TR100	SDP_PR	795.00	46.61	52.25	51.45	52.49	0.001852	2.56	410.77	180.17	0.40
Valle	37851.49	TR200	Steady_SDF_PR	1185.00	46.61	52.91	51.87	53.19	0.001884	2.85	542.75	223.84	0.42
Valle	37851.49	TR200	SDP_PR	810.00	46.61	52.28	51.47	52.52	0.001854	2.57	415.89	180.89	0.40
Valle	37691.15	TR100	Steady_SDF_PR	1026.00	46.38	52.37	51.28	52.63	0.001872	2.64	477.51	178.17	0.41
Valle	37691.15	TR100	SDP_PR	795.00	46.38	51.98	51.01	52.20	0.001773	2.41	409.66	173.53	0.39
Valle	37691.15	TR200	Steady_SDF_PR	1185.00	46.38	52.60	51.44	52.89	0.001948	2.79	518.69	179.81	0.42
Valle	37691.15	TR200	SDP_PR	810.00	46.38	52.01	51.03	52.23	0.001780	2.42	414.30	173.80	0.39
Valle	37446.51	TR100	Steady_SDF_PR	1026.00	45.72	51.58	50.93	52.03	0.003282	3.31	375.35	154.81	0.54
Valle	37446.51	TR100	SDP_PR	795.00	45.72	51.31	50.61	51.66	0.002763	2.89	333.84	154.17	0.49
Valle	37446.51	TR200	Steady_SDF_PR	1185.00	45.72	51.69	51.13	52.24	0.003841	3.65	392.48	155.07	0.59
Valle	37446.51	TR200	SDP_PR	810.00	45.72	51.33	50.63	51.69	0.002795	2.92	336.88	154.22	0.50
Valle	37294.49	TR100	Steady_SDF_PR	1026.00	45.66	51.45	50.68	51.66	0.001895	2.29	564.71	296.52	0.40
Valle	37294.49	TR100	SDP_PR	795.00	45.66	51.13	50.37	51.32	0.001901	2.14	469.01	294.28	0.40
Valle	37294.49	TR200	Steady_SDF_PR	1185.00	45.66	51.57	50.84	51.81	0.002125	2.48	599.76	296.93	0.43
Valle	37294.49	TR200	SDP_PR	810.00	45.66	51.15	50.39	51.34	0.001900	2.15	475.80	294.77	0.40
Valle	37070.25	TR100	Steady_SDF_PR	1026.00	45.20	51.01	50.25	51.20	0.002243	2.21	562.56	289.72	0.42
Valle	37070.25	TR100	SDP_PR	795.00	45.20	50.65	50.08	50.82	0.002588	2.16	456.73	288.35	0.44
Valle	37070.25	TR200	Steady_SDF_PR	1185.00	45.20	50.99	50.32	51.24	0.003122	2.59	555.10	289.65	0.50
Valle	37070.25	TR200	SDP_PR	810.00	45.20	50.68	50.09	50.85	0.002556	2.16	464.39	288.80	0.44
Valle	36864.26	TR100	Steady_SDF_PR	1026.00	45.13	50.79	49.82	50.89	0.001014	1.83	793.87	394.76	0.30
Valle	36864.26	TR100	SDP_PR	795.00	45.13	50.33	49.65	50.44	0.001289	1.90	616.33	389.42	0.33
Valle	36864.26	TR200	Steady_SDF_PR	1185.00	45.13	50.49	49.93	50.69	0.002200	2.55	676.39	392.43	0.43
Valle	36864.26	TR200	SDP_PR	810.00	45.13	50.36	49.66	50.47	0.001282	1.90	627.86	390.89	0.33

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	36819.22	TR100	Steady_SDF_PR	1026.00	44.71	50.76	49.97	50.85	0.000851	1.71	859.25	414.64	0.27
Valle	36819.22	TR100	SDP_PR	795.00	44.71	50.30	49.60	50.39	0.001105	1.80	667.77	412.32	0.30
Valle	36819.22	TR200	Steady_SDF_PR	1185.00	44.71	50.42	50.10	50.59	0.001977	2.46	717.22	412.62	0.41
Valle	36819.22	TR200	SDP_PR	810.00	44.71	50.33	49.81	50.42	0.001083	1.79	680.70	412.40	0.30
Valle	36683.44	TR100	Steady_SDF_PR	1026.00	44.90	50.69	49.31	50.76	0.000551	1.48	959.60	385.82	0.23
Valle	36683.44	TR100	SDP_PR	795.00	44.90	50.22	49.16	50.28	0.000645	1.49	777.04	384.49	0.24
Valle	36683.44	TR200	Steady_SDF_PR	1185.00	44.90	50.23	49.40	50.37	0.001395	2.19	783.81	384.54	0.35
Valle	36683.44	TR200	SDP_PR	810.00	44.90	50.25	49.17	50.31	0.000637	1.49	789.43	384.58	0.24
Valle	36449.28	TR100	Steady_SDF_PR	1026.00	43.94	49.36	49.36	50.44	0.008640	4.92	239.08	302.25	0.86
Valle	36449.28	TR100	SDP_PR	795.00	43.94	48.95	48.95	49.93	0.008090	4.61	198.26	266.55	0.82
Valle	36449.28	TR200	Steady_SDF_PR	1185.00	43.94	49.55	49.55	49.90	0.003866	3.25	520.92	324.08	0.57
Valle	36449.28	TR200	SDP_PR	810.00	43.94	48.98	48.98	49.96	0.008086	4.63	201.22	269.84	0.82
Valle	36291.36	TR100	Steady_SDF_PR	1026.00	43.98	49.06	48.37	49.23	0.001537	2.21	656.52	386.59	0.37
Valle	36291.36	TR100	SDP_PR	795.00	43.98	48.80	47.58	48.95	0.001437	2.03	556.60	385.76	0.35
Valle	36291.36	TR200	Steady_SDF_PR	1185.00	43.98	49.23	48.50	49.41	0.001572	2.30	721.72	387.13	0.38
Valle	36291.36	TR200	SDP_PR	810.00	43.98	48.82	47.61	48.97	0.001441	2.04	564.03	385.82	0.35
Valle	35747.93	TR100	Steady_SDF_PR	1026.00	42.59	48.56	47.91	48.71	0.001050	2.19	777.62	463.38	0.31
Valle	35747.93	TR100	SDP_PR	795.00	42.59	48.33	46.59	48.46	0.000919	1.99	672.35	462.35	0.29
Valle	35747.93	TR200	Steady_SDF_PR	1185.00	42.59	48.74	48.03	48.89	0.001055	2.25	862.76	464.21	0.32
Valle	35747.93	TR200	SDP_PR	810.00	42.59	48.35	46.62	48.48	0.000920	1.99	682.04	462.44	0.29
Valle	35545.42	TR100	Steady_SDF_PR	1026.00	42.34	48.35	47.81	48.48	0.001458	2.32	735.17	444.64	0.35
Valle	35545.42	TR100	SDP_PR	795.00	42.34	48.15	47.81	48.26	0.001277	2.10	646.99	444.14	0.33
Valle	35545.42	TR200	Steady_SDF_PR	1185.00	42.34	48.54	47.87	48.67	0.001400	2.34	819.46	445.12	0.35
Valle	35545.42	TR200	SDP_PR	810.00	42.34	48.17	47.81	48.28	0.001269	2.10	656.73	444.19	0.33
Valle	35351.76	TR100	Steady_SDF_PR	1026.00	42.14	48.06	47.36	48.21	0.001543	2.21	666.20	354.13	0.36
Valle	35351.76	TR100	SDP_PR	795.00	42.14	47.94	47.19	48.04	0.001139	1.86	622.40	353.72	0.31
Valle	35351.76	TR200	Steady_SDF_PR	1185.00	42.14	48.25	47.50	48.41	0.001537	2.28	732.88	355.92	0.37
Valle	35351.76	TR200	SDP_PR	810.00	42.14	47.96	47.20	48.06	0.001139	1.87	630.02	353.79	0.31
Valle	35040.81	TR100	Steady_SDF_PR	1026.00	42.13	47.60	45.83	47.79	0.001694	2.19	612.55	365.96	0.38
Valle	35040.81	TR100	SDP_PR	795.00	42.13	47.35	45.33	47.63	0.002212	2.43	374.85	358.40	0.43
Valle	35040.81	TR200	Steady_SDF_PR	1185.00	42.13	47.80	46.15	48.00	0.001658	2.25	686.64	366.35	0.38
Valle	35040.81	TR200	SDP_PR	810.00	42.13	47.36	45.36	47.65	0.002260	2.46	377.71	358.62	0.44
Valle	34798.32	TR100	Steady_SDF_PR	1026.00	41.31	47.13	46.70	47.33	0.002454	2.48	587.49	389.21	0.45
Valle	34798.32	TR100	SDP_PR	795.00	41.31	46.70	46.68	46.97	0.003743	2.77	419.70	386.69	0.54
Valle	34798.32	TR200	Steady_SDF_PR	1185.00	41.31	47.41	46.78	47.60	0.001958	2.35	699.07	391.17	0.41
Valle	34798.32	TR200	SDP_PR	810.00	41.31	46.73	46.68	46.99	0.003609	2.74	431.65	386.78	0.53
Valle	34614.50	TR100	Steady_SDF_PR	1026.00	41.12	47.04	44.57	47.15	0.000701	1.72	826.77	425.28	0.26
Valle	34614.50	TR100	SDP_PR	795.00	41.12	46.63	44.15	46.75	0.000728	1.64	651.44	418.04	0.26
Valle	34614.50	TR200	Steady_SDF_PR	1185.00	41.12	47.33	44.83	47.44	0.000649	1.72	951.57	427.48	0.25
Valle	34614.50	TR200	SDP_PR	810.00	41.12	46.66	44.19	46.77	0.000728	1.65	667.08	421.00	0.26
Valle	34274.00	TR100	Steady_SDF_PR	1026.00	40.26	46.76	45.62	46.90	0.000970	2.03	716.89	456.15	0.30
Valle	34274.00	TR100	SDP_PR	795.00	40.26	46.34	44.28	46.48	0.001015	2.00	582.98	452.34	0.30
Valle	34274.00	TR200	Steady_SDF_PR	1185.00	40.26	47.08	45.82	47.21	0.000891	2.00	817.90	459.68	0.29
Valle	34274.00	TR200	SDP_PR	810.00	40.26	46.36	44.33	46.50	0.001014	2.00	591.43	452.46	0.30
Valle	33671.77	TR100	Steady_SDF_PR	1026.00	39.69	46.68	45.31	46.71	0.000242	1.03	1582.87	760.79	0.15
Valle	33671.77	TR100	SDP_PR	795.00	39.69	46.20	44.48	46.23	0.000318	1.10	1222.01	759.32	0.17
Valle	33671.77	TR200	Steady_SDF_PR	1185.00	39.69	47.02	45.42	47.05	0.000200	0.98	1844.73	761.91	0.14
Valle	33671.77	TR200	SDP_PR	810.00	39.69	46.24	44.52	46.26	0.000312	1.09	1245.56	759.42	0.17
Valle	32779.42	TR100	Steady_SDF_PR	1026.00	38.58	46.52	45.08	46.56	0.000310	1.17	1306.68	543.65	0.17
Valle	32779.42	TR100	SDP_PR	795.00	38.58	45.99	44.74	46.03	0.000404	1.24	1019.83	540.80	0.19
Valle	32779.42	TR200	Steady_SDF_PR	1185.00	38.58	46.89	45.12	46.93	0.000262	1.13	1508.31	544.93	0.15
Valle	32779.42	TR200	SDP_PR	810.00	38.58	46.03	44.73	46.07	0.000396	1.24	1039.17	540.89	0.18
Valle	32347.42	TR100	Steady_SDF_PR	1026.00	38.19	46.40	44.18	46.47	0.000358	1.43	965.08	303.48	0.19
Valle	32347.42	TR100	SDP_PR	795.00	38.19	45.86	42.64	45.93	0.000367	1.37	802.00	301.19	0.19
Valle	32347.42	TR200	Steady_SDF_PR	1185.00	38.19	46.78	44.36	46.85	0.000340	1.46	1080.10	304.82	0.19
Valle	32347.42	TR200	SDP_PR	810.00	38.19	45.90	42.69	45.96	0.000367	1.37	813.04	301.29	0.19
Valle	32093.57	TR100	Steady_SDF_PR	1026.00	37.36	46.37	41.64	46.42	0.000175	1.11	1225.62	338.77	0.14
Valle	32093.57	TR100	SDP_PR	795.00	37.36	45.83	41.17	45.87	0.000164	1.02	1044.04	335.98	0.13
Valle	32093.57	TR200	Steady_SDF_PR	1185.00	37.36	46.75	41.95	46.80	0.000175	1.15	1354.34	339.79	0.14
Valle	32093.57	TR200	SDP_PR	810.00	37.36	45.87	41.19	45.91	0.000165	1.02	1056.33	336.11	0.13
Valle	31897.06	TR100	Steady_SDF_PR	1026.00	37.28	46.31	42.36	46.38	0.000284	1.39	967.17	264.76	0.17
Valle	31897.06	TR100	SDP_PR	795.00	37.28	45.78	41.79	45.84	0.000266	1.27	826.51	262.74	0.16
Valle	31897.06	TR200	Steady_SDF_PR	1185.00	37.28	46.69	42.73	46.77	0.000286	1.45	1067.55	268.43	0.17
Valle	31897.06	TR200	SDP_PR	810.00	37.28	45.82	41.83	45.88	0.000268	1.28	836.02	262.88	0.17
Valle	31779.43	TR100	Steady_SDF_PR	1026.00	37.09	46.28	41.66	46.35	0.000258	1.37	948.08	252.17	0.17
Valle	31779.43	TR100	SDP_PR	795.00	37.09	45.75	41.20	45.81	0.000230	1.23	815.47	250.09	0.15
Valle	31779.43	TR200	Steady_SDF_PR	1185.00	37.09	46.65	41.95	46.74	0.000264	1.44	1043.14	253.19	0.17
Valle	31779.43	TR200	SDP_PR	810.00	37.09	45.78	41.23	45.85	0.000232	1.24	824.42	250.24	0.16
Valle	31716.97	TR100	Steady_SDF_PR	1026.00	37.07	46.26	41.59	46.34	0.000273	1.41	946.18	250.47	0.17
Valle	31716.97	TR100	SDP_PR	795.00	37.07	45.73	41.03	45.80	0.000248	1.27	814.62	248.76	0.16
Valle	31716.97	TR200	Steady_SDF_PR	1185.00	37.07	46.64	41.97	46.72	0.000278	1.47	1040.85	253.11	0.17
Valle	31716.97	TR200	SDP_PR	810.00	37.07	45.77	41.07	45.83	0.000250	1.28	823.50	248.88	0.16
Valle	31541.62	TR100	Steady_SDF_PR	1026.00	36.67	46.17	44.32	46.26	0.000992	1.66	867.17	280.08	0.21
Valle	31541.62	TR100	SDP_PR	795.00	36.67	45.64	42.61	45.73	0.001025	1.59	718.73	279.02	0.21
Valle	31541.62	TR200	Steady_SDF_PR	1185.00	36.67	46.55	44.53	46.64	0.000940	1.68	989.81	293.88	0.21
Valle	31541.62	TR200	SDP_PR	810.00	36.67	45.68	42.67	45.76	0.001023	1.60	728.75	279.09	0.21

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	31254.47	TR100	Steady_SDF_PR	1026.00	35.94	45.91	43.89	46.00	0.001088	1.70	838.99	262.08	0.21
Valle	31254.47	TR100	SDP_PR	795.00	35.94	45.37	43.48	45.45	0.001138	1.64	696.93	259.95	0.21
Valle	31254.47	TR200	Steady_SDF_PR	1185.00	35.94	46.31	44.04	46.40	0.001012	1.70	943.82	263.61	0.20
Valle	31254.47	TR200	SDP_PR	810.00	35.94	45.41	43.50	45.49	0.001135	1.65	706.49	260.11	0.21
Valle	31039.65	TR100	Steady_SDF_PR	1026.00	35.67	45.70	41.78	45.80	0.000995	1.72	841.84	273.68	0.21
Valle	31039.65	TR100	SDP_PR	795.00	35.67	45.14	40.84	45.24	0.001027	1.65	690.49	269.91	0.21
Valle	31039.65	TR200	Steady_SDF_PR	1185.00	35.67	46.11	42.47	46.21	0.000921	1.72	956.63	275.84	0.21
Valle	31039.65	TR200	SDP_PR	810.00	35.67	45.18	40.90	45.27	0.001025	1.66	700.63	270.07	0.21
Valle	30820.78	TR100	Steady_SDF_PR	1026.00	34.89	45.57	43.82	45.63	0.000709	1.46	1072.66	361.21	0.17
Valle	30820.78	TR100	SDP_PR	795.00	34.89	44.99	41.09	45.06	0.000800	1.48	864.24	359.22	0.18
Valle	30820.78	TR200	Steady_SDF_PR	1185.00	34.89	46.01	43.96	46.06	0.000628	1.43	1230.47	364.71	0.16
Valle	30820.78	TR200	SDP_PR	810.00	34.89	45.03	41.15	45.09	0.000793	1.47	878.32	359.37	0.17
Valle	30566.36	TR100	Steady_SDF_PR	1026.00	34.62	45.46	39.68	45.52	0.000441	1.24	1238.59	417.57	0.15
Valle	30566.36	TR100	SDP_PR	795.00	34.62	44.87	39.02	44.92	0.000471	1.21	992.55	413.00	0.15
Valle	30566.36	TR200	Steady_SDF_PR	1185.00	34.62	45.91	40.09	45.96	0.000397	1.22	1427.08	420.02	0.14
Valle	30566.36	TR200	SDP_PR	810.00	34.62	44.91	39.06	44.96	0.000469	1.21	1009.13	413.22	0.15
Valle	30391.41	TR100	Steady_SDF_PR	1026.00	34.69	45.40	43.48	45.45	0.000572	1.25	1192.59	395.92	0.16
Valle	30391.41	TR100	SDP_PR	795.00	34.69	44.80	40.77	44.84	0.000668	1.27	954.61	392.93	0.17
Valle	30391.41	TR200	Steady_SDF_PR	1185.00	34.69	45.86	43.63	45.90	0.000494	1.22	1374.68	398.27	0.15
Valle	30391.41	TR200	SDP_PR	810.00	34.69	44.84	40.85	44.89	0.000660	1.27	970.74	393.19	0.17
Valle	30048.68	TR100	Steady_SDF_PR	1026.00	34.37	45.26	41.77	45.30	0.000528	1.33	1255.46	440.53	0.15
Valle	30048.68	TR100	SDP_PR	795.00	34.37	44.60	40.92	44.66	0.000686	1.43	944.24	423.15	0.17
Valle	30048.68	TR200	Steady_SDF_PR	1185.00	34.37	45.74	43.62	45.78	0.000431	1.25	1503.60	457.53	0.14
Valle	30048.68	TR200	SDP_PR	810.00	34.37	44.65	40.98	44.71	0.000674	1.43	963.27	423.28	0.17
Valle	29865.97	TR100	Steady_SDF_PR	1026.00	34.14	45.16	43.55	45.21	0.000664	1.35	1178.37	433.33	0.17
Valle	29865.97	TR100	SDP_PR	795.00	34.14	44.45	41.42	44.52	0.001034	1.57	818.14	394.33	0.21
Valle	29865.97	TR200	Steady_SDF_PR	1185.00	34.14	45.66	43.65	45.71	0.000524	1.26	1398.40	433.33	0.15
Valle	29865.97	TR200	SDP_PR	810.00	34.14	44.50	41.49	44.57	0.001005	1.55	837.46	394.51	0.20
Valle	29664.58	TR100	Steady_SDF_PR	1026.00	33.69	45.10	40.57	45.13	0.000285	1.00	1579.14	474.94	0.11
Valle	29664.58	TR100	SDP_PR	795.00	33.69	44.38	39.75	44.41	0.000370	1.07	1175.05	436.43	0.13
Valle	29664.58	TR200	Steady_SDF_PR	1185.00	33.69	45.62	41.08	45.64	0.000244	0.96	1824.71	474.94	0.11
Valle	29664.58	TR200	SDP_PR	810.00	33.69	44.43	39.80	44.46	0.000364	1.06	1196.87	436.66	0.13
Valle	29386.48	TR100	Steady_SDF_PR	1026.00	33.35	45.01	39.72	45.06	0.000322	1.10	1292.49	329.91	0.13
Valle	29386.48	TR100	SDP_PR	795.00	33.35	44.28	39.19	44.32	0.000367	1.10	985.09	292.88	0.13
Valle	29386.48	TR200	Steady_SDF_PR	1185.00	33.35	45.54	40.06	45.58	0.000297	1.10	1465.65	329.91	0.12
Valle	29386.48	TR200	SDP_PR	810.00	33.35	44.33	39.22	44.37	0.000365	1.10	999.93	293.03	0.13
Valle	29169.83	TR100	Steady_SDF_PR	1026.00	32.91	44.96	40.16	45.00	0.000322	1.06	1448.35	405.68	0.12
Valle	29169.83	TR100	SDP_PR	795.00	32.91	44.21	39.22	44.25	0.000407	1.12	1086.64	369.61	0.13
Valle	29169.83	TR200	Steady_SDF_PR	1185.00	32.91	45.50	42.53	45.53	0.000279	1.03	1664.46	405.68	0.11
Valle	29169.83	TR200	SDP_PR	810.00	32.91	44.26	39.28	44.30	0.000402	1.12	1105.76	370.09	0.13
Valle	29015.68	TR100	Steady_SDF_PR	1026.00	32.55	44.93	40.18	44.96	0.000269	0.96	1547.50	418.90	0.11
Valle	29015.68	TR100	SDP_PR	795.00	32.55	44.18	39.27	44.21	0.000313	0.97	1221.56	404.60	0.12
Valle	29015.68	TR200	Steady_SDF_PR	1185.00	32.55	45.47	42.23	45.50	0.000235	0.94	1772.43	418.90	0.11
Valle	29015.68	TR200	SDP_PR	810.00	32.55	44.23	39.34	44.26	0.000309	0.97	1242.72	406.10	0.12
Valle	28759.46	TR100	Steady_SDF_PR	1026.00	32.68	44.90	39.70	44.92	0.000218	0.87	1744.56	480.28	0.10
Valle	28759.46	TR100	SDP_PR	795.00	32.68	44.13	38.80	44.15	0.000279	0.92	1338.84	462.10	0.11
Valle	28759.46	TR200	Steady_SDF_PR	1185.00	32.68	45.44	40.27	45.46	0.000188	0.85	2005.50	480.28	0.09
Valle	28759.46	TR200	SDP_PR	810.00	32.68	44.18	38.86	44.21	0.000274	0.92	1363.45	462.26	0.11
Valle	28555.6	TR100	Steady_SDF_PR	1026.00	32.36	44.87	38.39	44.89	0.000187	0.87	1705.52	420.29	0.10
Valle	28555.6	TR100	SDP_PR	795.00	32.36	44.09	37.61	44.12	0.000213	0.87	1333.47	389.87	0.10
Valle	28555.6	TR200	Steady_SDF_PR	1185.00	32.36	45.42	38.88	45.44	0.000170	0.87	1935.22	420.29	0.09
Valle	28555.6	TR200	SDP_PR	810.00	32.36	44.15	37.67	44.17	0.000211	0.88	1354.38	390.06	0.10
Valle	28457.03	TR100	Steady_SDF_PR	1026.00	32.27	44.83	38.77	44.87	0.000273	1.10	1385.65	334.63	0.12
Valle	28457.03	TR100	SDP_PR	795.00	32.27	44.05	37.93	44.09	0.000328	1.14	1044.60	303.21	0.12
Valle	28457.03	TR200	Steady_SDF_PR	1185.00	32.27	45.38	39.32	45.42	0.000251	1.10	1569.23	334.63	0.11
Valle	28457.03	TR200	SDP_PR	810.00	32.27	44.11	37.99	44.15	0.000326	1.14	1060.92	303.30	0.12
Valle	27927.31	TR100	Steady_SDF_PR	1026.00	32.04	44.78	41.06	44.80	0.000204	0.86	1724.14	437.80	0.09
Valle	27927.31	TR100	SDP_PR	795.00	32.04	43.97	38.73	44.00	0.000269	0.92	1264.10	382.11	0.11
Valle	27927.31	TR200	Steady_SDF_PR	1185.00	32.04	45.34	41.50	45.36	0.000180	0.84	1968.18	437.80	0.09
Valle	27927.31	TR200	SDP_PR	810.00	32.04	44.03	38.80	44.05	0.000266	0.92	1285.17	382.34	0.11
Valle	27499.75	TR100	Steady_SDF_PR	1026.00	31.92	44.70	39.49	44.74	0.000271	1.04	1402.00	339.75	0.12
Valle	27499.75	TR100	SDP_PR	795.00	31.92	43.86	38.64	43.90	0.000368	1.13	994.45	290.25	0.13
Valle	27499.75	TR200	Steady_SDF_PR	1185.00	31.92	45.27	39.96	45.30	0.000245	1.04	1594.34	339.75	0.11
Valle	27499.75	TR200	SDP_PR	810.00	31.92	43.92	38.70	43.96	0.000365	1.13	1010.84	290.52	0.13
Valle	27335.83	TR100	Steady_SDF_PR	1026.00	32.09	44.65	39.28	44.69	0.000356	1.23	1239.55	302.87	0.13
Valle	27335.83	TR100	SDP_PR	795.00	32.09	43.79	38.35	43.85	0.000490	1.35	868.89	255.99	0.15
Valle	27335.83	TR200	Steady_SDF_PR	1185.00	32.09	45.22	39.86	45.26	0.000320	1.21	1412.62	302.87	0.12
Valle	27335.83	TR200	SDP_PR	810.00	32.09	43.84	38.42	43.90	0.000486	1.35	883.56	256.31	0.15
Valle	27141.15	TR100	Steady_SDF_PR	1026.00	32.06	44.60	38.74	44.64	0.000315	1.16	1241.29	270.41	0.12
Valle	27141.15	TR100	SDP_PR	795.00	32.06	43.72	37.86	43.77	0.000400	1.22	898.11	226.33	0.14
Valle	27141.15	TR200	Steady_SDF_PR	1185.00	32.06	45.17	39.40	45.22	0.000294	1.16	1396.70	270.41	0.12
Valle	27141.15	TR200	SDP_PR	810.00	32.06	43.78	37.93	43.83	0.000399	1.22	911.12	226.73	0.14
Valle	26977.32	TR100	Steady_SDF_PR	1026.00	31.82	44.52	39.64	44.59	0.000543	1.40	997.61	235.09	0.15
Valle	26977.32	TR100	SDP_PR	795.00	31.82	43.64	38.49	43.70	0.000617	1.38	789.89	225.57	0.16
Valle	26977.32	TR200	Steady_SDF_PR	1185.00	31.82	45.10	40.13	45.17	0.000491	1.39	1134.19	235.09	0.15



HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	26977.32	TR200	SDP_PR	810.00	31.82	43.70	38.55	43.76	0.000611	1.38	803.05	225.72	0.16
Valle	26894.95	TR100	Steady_SDF_PR	1026.00	31.17	44.55	38.83	44.56	0.000138	0.75	2038.12	506.28	0.08
Valle	26894.95	TR100	SDP_PR	795.00	31.17	43.66	37.98	43.67	0.000177	0.80	1588.63	506.28	0.09
Valle	26894.95	TR200	Steady_SDF_PR	1185.00	31.17	45.13	39.36	45.14	0.000120	0.74	2333.52	506.28	0.08
Valle	26894.95	TR200	SDP_PR	810.00	31.17	43.72	38.04	43.73	0.000174	0.79	1618.38	506.28	0.09
Valle	26258.51	TR100	Steady_SDF_PR	1026.00	31.25	44.47	39.46	44.49	0.000201	0.88	1727.47	430.28	0.09
Valle	26258.51	TR100	SDP_PR	795.00	31.25	43.55	38.43	43.58	0.000285	0.98	1277.62	410.19	0.11
Valle	26258.51	TR200	Steady_SDF_PR	1185.00	31.25	45.06	41.64	45.08	0.000173	0.85	1983.06	430.28	0.09
Valle	26258.51	TR200	SDP_PR	810.00	31.25	43.61	38.51	43.64	0.000279	0.97	1302.68	410.82	0.11
Valle	25708.58	TR100	Steady_SDF_PR	1026.00	30.84	44.43	38.94	44.44	0.000105	0.65	2215.19	490.02	0.07
Valle	25708.58	TR100	SDP_PR	795.00	30.84	43.50	38.05	43.51	0.000131	0.67	1757.97	490.02	0.08
Valle	25708.58	TR200	Steady_SDF_PR	1185.00	30.84	45.03	40.77	45.04	0.000094	0.64	2509.05	490.02	0.07
Valle	25708.58	TR200	SDP_PR	810.00	30.84	43.56	38.11	43.57	0.000128	0.67	1788.45	490.02	0.08
Valle	25450.79	TR100	Steady_SDF_PR	1026.00	30.72	44.41	37.91	44.42	0.000126	0.73	1973.52	425.48	0.08
Valle	25450.79	TR100	SDP_PR	795.00	30.72	43.47	36.92	43.48	0.000152	0.74	1574.19	425.48	0.08
Valle	25450.79	TR200	Steady_SDF_PR	1185.00	30.72	45.01	38.58	45.02	0.000114	0.72	2229.62	425.48	0.07
Valle	25450.79	TR200	SDP_PR	810.00	30.72	43.53	36.98	43.55	0.000150	0.74	1600.85	425.48	0.08
Valle	25190.00	TR100	Steady_SDF_PR	1026.00	30.55	44.38	37.26	44.40	0.000135	0.82	1903.33	422.41	0.08
Valle	25190.00	TR100	SDP_PR	795.00	30.55	43.43	36.43	43.45	0.000163	0.85	1503.66	422.41	0.09
Valle	25190.00	TR200	Steady_SDF_PR	1185.00	30.55	44.98	37.77	45.00	0.000122	0.81	2158.95	422.41	0.08
Valle	25190.00	TR200	SDP_PR	810.00	30.55	43.49	36.49	43.51	0.000161	0.84	1530.40	422.41	0.09
Valle	25022.74	TR100	Steady_SDF_PR	1026.00	30.56	44.35	36.80	44.38	0.000137	0.83	1563.13	268.64	0.09
Valle	25022.74	TR100	SDP_PR	795.00	30.56	43.40	36.24	43.43	0.000138	0.77	1309.49	268.64	0.08
Valle	25022.74	TR200	Steady_SDF_PR	1185.00	30.56	44.95	37.12	44.98	0.000136	0.86	1725.43	268.64	0.09
Valle	25022.74	TR200	SDP_PR	810.00	30.56	43.47	36.27	43.49	0.000138	0.78	1326.44	268.64	0.08
Valle	24820.04	TR100	Steady_SDF_PR	1026.00	30.33	44.30	37.25	44.34	0.000297	1.17	1185.85	230.63	0.12
Valle	24820.04	TR100	SDP_PR	795.00	30.33	43.35	36.39	43.39	0.000323	1.14	967.27	230.63	0.12
Valle	24820.04	TR200	Steady_SDF_PR	1185.00	30.33	44.90	37.84	44.95	0.000283	1.19	1325.55	230.63	0.12
Valle	24820.04	TR200	SDP_PR	810.00	30.33	43.41	36.45	43.46	0.000321	1.14	981.88	230.63	0.12
Valle	24682.68	TR100	Steady_SDF_PR	1026.00	30.42	44.25	38.99	44.30	0.000329	1.21	1127.28	212.62	0.12
Valle	24682.68	TR100	SDP_PR	795.00	30.42	43.30	37.84	43.35	0.000358	1.18	925.17	212.62	0.13
Valle	24682.68	TR200	Steady_SDF_PR	1185.00	30.42	44.86	40.26	44.91	0.000315	1.24	1256.33	212.62	0.12
Valle	24682.68	TR200	SDP_PR	810.00	30.42	43.37	37.90	43.41	0.000356	1.18	938.69	212.62	0.13
Valle	24541.75	TR100	Steady_SDF_PR	1026.00	30.36	44.21	38.51	44.26	0.000346	1.17	1120.72	211.43	0.13
Valle	24541.75	TR100	SDP_PR	795.00	30.36	43.25	37.54	43.30	0.000381	1.13	918.90	211.43	0.13
Valle	24541.75	TR200	Steady_SDF_PR	1185.00	30.36	44.82	40.20	44.87	0.000329	1.19	1249.47	211.43	0.13
Valle	24541.75	TR200	SDP_PR	810.00	30.36	43.32	37.67	43.36	0.000379	1.14	932.40	211.43	0.13
Valle	24400.02	TR100	Steady_SDF_PR	1026.00	30.34	44.12	39.05	44.20	0.000515	1.48	906.96	163.72	0.15
Valle	24400.02	TR100	SDP_PR	795.00	30.34	43.15	37.82	43.23	0.000627	1.51	676.74	143.45	0.17
Valle	24400.02	TR200	Steady_SDF_PR	1185.00	30.34	44.73	40.00	44.81	0.000500	1.52	1006.73	163.72	0.15
Valle	24400.02	TR200	SDP_PR	810.00	30.34	43.21	38.13	43.30	0.000626	1.52	685.89	143.64	0.17
Valle	24249.84	TR100	Steady_SDF_PR	1026.00	30.31	44.01	37.95	44.11	0.000713	1.68	788.77	148.87	0.18
Valle	24249.84	TR100	SDP_PR	795.00	30.31	43.03	36.97	43.13	0.000771	1.62	643.54	148.87	0.18
Valle	24249.84	TR200	Steady_SDF_PR	1185.00	30.31	44.62	38.81	44.73	0.000687	1.72	879.93	148.87	0.17
Valle	24249.84	TR200	SDP_PR	810.00	30.31	43.09	37.04	43.19	0.000768	1.63	653.11	148.87	0.18
Valle	24074.80	TR100	Steady_SDF_PR	1026.00	30.18	43.96	36.94	44.03	0.000356	1.30	999.78	171.57	0.13
Valle	24074.80	TR100	SDP_PR	795.00	30.18	42.98	35.79	43.04	0.000361	1.22	832.03	171.57	0.13
Valle	24074.80	TR200	Steady_SDF_PR	1185.00	30.18	44.57	37.37	44.65	0.000354	1.35	1105.15	171.57	0.13
Valle	24074.80	TR200	SDP_PR	810.00	30.18	43.05	35.85	43.11	0.000361	1.23	843.07	171.57	0.13
Valle	23968.56	TR100	Steady_SDF_PR	1026.00	30.24	43.89	37.55	43.98	0.000548	1.65	833.89	143.51	0.16
Valle	23968.56	TR100	SDP_PR	795.00	30.24	42.91	36.64	43.00	0.000557	1.57	693.60	143.51	0.16
Valle	23968.56	TR200	Steady_SDF_PR	1185.00	30.24	44.50	38.97	44.60	0.000545	1.71	921.92	143.51	0.16
Valle	23968.56	TR200	SDP_PR	810.00	30.24	42.97	36.70	43.06	0.000558	1.57	702.81	143.51	0.16
Valle	23773.85	TR100	Steady_SDF_PR	1026.00	30.39	43.83	38.23	43.89	0.000398	1.30	1035.55	198.95	0.14
Valle	23773.85	TR100	SDP_PR	795.00	30.39	42.84	37.25	42.90	0.000448	1.28	838.53	198.95	0.14
Valle	23773.85	TR200	Steady_SDF_PR	1185.00	30.39	44.45	39.49	44.52	0.000377	1.32	1158.89	198.95	0.14
Valle	23773.85	TR200	SDP_PR	810.00	30.39	42.91	37.31	42.97	0.000445	1.28	851.48	198.95	0.14
Valle	23624.85	TR100	Steady_SDF_PR	1026.00	30.22	43.82	37.07	43.85	0.000206	0.97	1450.24	283.29	0.10
Valle	23624.85	TR100	SDP_PR	795.00	30.22	42.82	36.18	42.85	0.000237	0.97	1167.62	283.29	0.10
Valle	23624.85	TR200	Steady_SDF_PR	1185.00	30.22	44.45	37.57	44.48	0.000193	0.98	1626.96	283.29	0.10
Valle	23624.85	TR200	SDP_PR	810.00	30.22	42.89	36.24	42.92	0.000235	0.97	1186.20	283.29	0.10
Valle	23505.59	TR100	Steady_SDF_PR	1026.00	30.20	43.79	36.50	43.83	0.000212	1.03	1329.69	239.69	0.10
Valle	23505.59	TR100	SDP_PR	795.00	30.20	42.80	35.70	42.83	0.000228	0.99	1090.38	239.69	0.11
Valle	23505.59	TR200	Steady_SDF_PR	1185.00	30.20	44.42	37.03	44.46	0.000205	1.06	1479.25	239.69	0.10
Valle	23505.59	TR200	SDP_PR	810.00	30.20	42.86	35.76	42.90	0.000227	1.00	1106.10	239.69	0.11
Valle	23350.24	TR100	Steady_SDF_PR	1026.00	30.33	43.70	38.08	43.79	0.000564	1.52	863.35	159.79	0.16
Valle	23350.24	TR100	SDP_PR	795.00	30.33	42.70	36.87	42.78	0.000619	1.47	703.40	159.79	0.17
Valle	23350.24	TR200	Steady_SDF_PR	1185.00	30.33	44.33	39.81	44.42	0.000541	1.56	963.01	159.79	0.16
Valle	23350.24	TR200	SDP_PR	810.00	30.33	42.77	36.94	42.85	0.000615	1.48	713.90	159.79	0.17
Valle	23107.37	TR100	Steady_SDF_PR	1026.00	30.20	43.59	37.31	43.68	0.000465	1.51	875.39	144.43	0.15
Valle	23107.37	TR100	SDP_PR	795.00	30.20	42.58	36.51	42.66	0.000490	1.44	696.84	130.75	0.15
Valle	23107.37	TR200	Steady_SDF_PR	1185.00	30.20	44.21	37.88	44.31	0.000464	1.57	965.55	144.43	0.15
Valle	23107.37	TR200	SDP_PR	810.00	30.20	42.65	36.57	42.73	0.000491	1.45	705.41	130.85	0.15
Valle	22999.65	TR100	Steady_SDF_PR	1026.00	30.35	43.52	37.85	43.62	0.000569	1.60	821.63	145.63	0.17
Valle	22999.65	TR100	SDP_PR	795.00	30.35	42.51	37.08	42.60	0.000604	1.52	674.38	145.63	0.17

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	22999.65	TR200	Steady_SDF_PR	1185.00	30.35	44.15	38.39	44.25	0.000555	1.65	912.76	145.63	0.17
Valle	22999.65	TR200	SDP_PR	810.00	30.35	42.58	37.13	42.67	0.000603	1.53	683.97	145.63	0.17
Valle	22697.86	TR100	Steady_SDF_PR	1026.00	30.07	43.55	36.47	43.57	0.000119	0.73	1913.13	375.81	0.08
Valle	22697.86	TR100	SDP_PR	795.00	30.07	42.53	35.58	42.54	0.000142	0.74	1527.03	375.81	0.08
Valle	22697.86	TR200	Steady_SDF_PR	1185.00	30.07	44.19	37.00	44.21	0.000109	0.73	2151.61	375.81	0.07
Valle	22697.86	TR200	SDP_PR	810.00	30.07	42.59	35.64	42.61	0.000141	0.74	1552.23	375.81	0.08
Valle	22161.23	TR100	Steady_SDF_PR	1026.00	29.29	43.53	36.55	43.54	0.000089	0.59	2369.74	504.77	0.06
Valle	22161.23	TR100	SDP_PR	795.00	29.29	42.49	35.63	42.50	0.000117	0.62	1845.72	504.77	0.07
Valle	22161.23	TR200	Steady_SDF_PR	1185.00	29.29	44.17	37.23	44.18	0.000079	0.58	2692.05	504.77	0.06
Valle	22161.23	TR200	SDP_PR	810.00	29.29	42.56	35.69	42.57	0.000115	0.62	1880.01	504.77	0.07
Valle	21810.02	TR100	Steady_SDF_PR	1026.00	29.09	43.51	35.28	43.52	0.000103	0.73	1900.97	325.26	0.07
Valle	21810.02	TR100	SDP_PR	795.00	29.09	42.46	34.46	42.48	0.000113	0.71	1562.11	325.26	0.07
Valle	21810.02	TR200	Steady_SDF_PR	1185.00	29.09	44.14	35.84	44.16	0.000099	0.75	2109.00	325.26	0.07
Valle	21810.02	TR200	SDP_PR	810.00	29.09	42.53	34.52	42.55	0.000113	0.71	1584.30	325.26	0.07
Valle	21545.47	TR100	Steady_SDF_PR	1026.00	29.08	43.49	36.41	43.50	0.000099	0.70	1932.62	338.97	0.07
Valle	21545.47	TR100	SDP_PR	795.00	29.08	42.44	35.66	42.46	0.000111	0.69	1578.51	338.97	0.07
Valle	21545.47	TR200	Steady_SDF_PR	1185.00	29.08	44.13	36.95	44.14	0.000094	0.72	2149.79	338.97	0.07
Valle	21545.47	TR200	SDP_PR	810.00	29.08	42.51	35.72	42.53	0.000110	0.69	1601.70	338.97	0.07
Valle	21317.90	TR100	Steady_SDF_PR	1026.00	28.68	43.43	36.84	43.48	0.000260	1.21	1141.28	186.53	0.11
Valle	21317.90	TR100	SDP_PR	795.00	28.68	42.39	35.89	42.43	0.000273	1.17	946.37	186.53	0.11
Valle	21317.90	TR200	Steady_SDF_PR	1185.00	28.68	44.07	37.42	44.12	0.000256	1.25	1260.56	186.53	0.11
Valle	21317.90	TR200	SDP_PR	810.00	28.68	42.46	35.96	42.50	0.000272	1.17	959.13	186.53	0.11
Valle	21224.30	TR100	Steady_SDF_PR	1026.00	28.61	43.37	36.60	43.45	0.000419	1.48	888.46	143.74	0.14
Valle	21224.30	TR100	SDP_PR	795.00	28.61	42.33	35.69	42.40	0.000431	1.40	738.57	143.74	0.14
Valle	21224.30	TR200	Steady_SDF_PR	1185.00	28.61	44.01	37.30	44.09	0.000418	1.54	980.06	143.74	0.15
Valle	21224.30	TR200	SDP_PR	810.00	28.61	42.39	35.76	42.47	0.000431	1.41	748.38	143.74	0.14
Valle	21081.71	TR100	Steady_SDF_PR	1026.00	28.44	43.32	36.20	43.40	0.000411	1.38	874.56	139.80	0.15
Valle	21081.71	TR100	SDP_PR	795.00	28.44	42.27	35.29	42.35	0.000417	1.29	728.80	139.80	0.14
Valle	21081.71	TR200	Steady_SDF_PR	1185.00	28.44	43.95	36.95	44.04	0.000412	1.45	963.56	139.80	0.15
Valle	21081.71	TR200	SDP_PR	810.00	28.44	42.34	35.35	42.42	0.000418	1.30	738.32	139.80	0.14
Valle	20980.62	TR100	Steady_SDF_PR	1026.00	28.53	43.26	35.65	43.36	0.000497	1.54	796.92	117.98	0.15
Valle	20980.62	TR100	SDP_PR	795.00	28.53	42.22	34.71	42.30	0.000487	1.42	674.34	117.98	0.15
Valle	20980.62	TR200	Steady_SDF_PR	1185.00	28.53	43.89	36.30	44.00	0.000507	1.62	871.67	117.98	0.16
Valle	20980.62	TR200	SDP_PR	810.00	28.53	42.29	34.78	42.37	0.000488	1.43	682.34	117.98	0.15
Valle	20847.13	TR100	Steady_SDF_PR	1026.00	28.51	43.17	35.56	43.29	0.000546	1.68	729.36	104.04	0.17
Valle	20847.13	TR100	SDP_PR	795.00	28.51	42.14	34.64	42.24	0.000516	1.53	622.12	104.04	0.16
Valle	20847.13	TR200	Steady_SDF_PR	1185.00	28.51	43.79	36.16	43.93	0.000567	1.78	794.69	104.04	0.17
Valle	20847.13	TR200	SDP_PR	810.00	28.51	42.20	34.71	42.30	0.000519	1.54	629.09	104.04	0.16
Valle	20656.02	TR100	Steady_SDF_PR	1026.00	28.49	43.10	36.80	43.18	0.000531	1.48	867.97	155.00	0.15
Valle	20656.02	TR100	SDP_PR	795.00	28.49	42.05	35.74	42.13	0.000585	1.44	705.50	155.00	0.16
Valle	20656.02	TR200	Steady_SDF_PR	1185.00	28.49	43.74	37.36	43.82	0.000512	1.52	966.71	155.00	0.15
Valle	20656.02	TR200	SDP_PR	810.00	28.49	42.12	35.81	42.20	0.000582	1.44	716.05	155.00	0.16
Valle	20476.21	TR100	Steady_SDF_PR	1026.00	28.47	42.97	37.06	43.09	0.000625	1.76	748.58	122.43	0.17
Valle	20476.21	TR100	SDP_PR	795.00	28.47	41.92	35.51	42.03	0.000641	1.66	619.98	122.43	0.17
Valle	20476.21	TR200	Steady_SDF_PR	1185.00	28.47	43.61	37.64	43.74	0.000624	1.83	826.43	122.43	0.18
Valle	20476.21	TR200	SDP_PR	810.00	28.47	41.99	35.59	42.10	0.000641	1.67	628.31	122.43	0.17
Valle	20273.56	TR100	Steady_SDF_PR	1026.00	28.22	42.92	36.51	43.00	0.000441	1.51	874.20	144.21	0.15
Valle	20273.56	TR100	SDP_PR	795.00	28.22	41.86	35.64	41.94	0.000459	1.43	721.28	144.21	0.15
Valle	20273.56	TR200	Steady_SDF_PR	1185.00	28.22	43.56	37.11	43.65	0.000438	1.57	966.57	144.21	0.15
Valle	20273.56	TR200	SDP_PR	810.00	28.22	41.93	35.70	42.01	0.000458	1.44	731.17	144.21	0.15
Valle	20056.70	TR100	Steady_SDF_PR	1026.00	28.06	42.81	36.33	42.90	0.000501	1.55	824.28	131.85	0.16
Valle	20056.70	TR100	SDP_PR	795.00	28.06	41.76	35.50	41.84	0.000487	1.42	685.23	131.85	0.15
Valle	20056.70	TR200	Steady_SDF_PR	1185.00	28.06	43.45	36.83	43.55	0.000500	1.61	908.60	131.85	0.16
Valle	20056.70	TR200	SDP_PR	810.00	28.06	41.82	35.55	41.90	0.000487	1.43	694.25	131.85	0.15
Valle	19942.82	TR100	Steady_SDF_PR	1026.00	28.02	42.63	35.72	42.83	0.000973	2.24	582.87	88.30	0.20
Valle	19942.82	TR100	SDP_PR	795.00	28.02	41.59	34.77	41.76	0.000927	2.06	491.17	88.30	0.20
Valle	19942.82	TR200	Steady_SDF_PR	1185.00	28.02	43.25	36.31	43.47	0.001007	2.35	638.30	88.30	0.21
Valle	19942.82	TR200	SDP_PR	810.00	28.02	41.65	34.83	41.83	0.000932	2.07	497.09	88.30	0.20
Valle	19932		Bridge										
Valle	19919.06	TR100	Steady_SDF_PR	1026.00	27.84	42.43	36.41	42.67	0.001312	2.37	528.69	89.53	0.24
Valle	19919.06	TR100	SDP_PR	795.00	27.84	41.47	35.24	41.68	0.001267	2.17	442.53	89.53	0.23
Valle	19919.06	TR200	Steady_SDF_PR	1185.00	27.84	43.07	37.12	43.32	0.001314	2.47	585.93	89.53	0.24
Valle	19919.06	TR200	SDP_PR	810.00	27.84	41.53	35.31	41.74	0.001272	2.19	448.28	89.53	0.23
Valle	19831.94	TR100	Steady_SDF_PR	1026.00	28.04	42.45	35.90	42.58	0.000793	1.85	713.07	125.28	0.18
Valle	19831.94	TR100	SDP_PR	795.00	28.04	41.47	34.93	41.59	0.000811	1.75	590.06	125.28	0.18
Valle	19831.94	TR200	Steady_SDF_PR	1185.00	28.04	43.10	36.52	43.24	0.000773	1.90	794.65	125.28	0.18
Valle	19831.94	TR200	SDP_PR	810.00	28.04	41.53	35.00	41.65	0.000810	1.76	598.28	125.28	0.18
Valle	19753.42	TR100	Steady_SDF_PR	1026.00	27.83	42.40	35.60	42.50	0.001319	1.61	805.47	128.09	0.16
Valle	19753.42	TR100	SDP_PR	795.00	27.83	41.42	34.72	41.51	0.001274	1.48	680.13	128.09	0.15
Valle	19753.42	TR200	Steady_SDF_PR	1185.00	27.83	43.05	36.21	43.16	0.001323	1.68	888.78	128.09	0.16
Valle	19753.42	TR200	SDP_PR	810.00	27.83	41.49	34.78	41.58	0.001279	1.49	688.50	128.09	0.16
Valle	19594.38	TR100	Steady_SDF_PR	1026.00	27.90	42.26	36.89	42.33	0.000974	1.36	979.97	160.24	0.14
Valle	19594.38	TR100	SDP_PR	795.00	27.90	41.28	35.23	41.34	0.000987	1.28	822.31	160.24	0.13
Valle	19594.38	TR200	Steady_SDF_PR	1185.00	27.90	42.92	37.41	42.99	0.000954	1.40	1085.10	160.24	0.14
Valle	19594.38	TR200	SDP_PR	810.00	27.90	41.34	35.30	41.40	0.000987	1.28	832.81	160.24	0.14

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	19330.03	TR100	Steady_SDF_PR	1026.00	27.56	42.20	34.55	42.22	0.000340	0.85	1673.39	297.88	0.08
Valle	19330.03	TR100	SDP_PR	795.00	27.56	41.20	33.66	41.22	0.000367	0.82	1375.91	297.88	0.09
Valle	19330.03	TR200	Steady_SDF_PR	1185.00	27.56	42.86	35.18	42.89	0.000321	0.86	1871.57	297.88	0.08
Valle	19330.03	TR200	SDP_PR	810.00	27.56	41.27	33.72	41.29	0.000365	0.83	1395.73	297.88	0.09
Valle	19074.17	TR100	Steady_SDF_PR	1026.00	27.44	42.03	34.83	42.12	0.000946	1.42	914.91	141.29	0.14
Valle	19074.17	TR100	SDP_PR	795.00	27.44	41.04	34.03	41.11	0.000911	1.30	774.21	141.29	0.14
Valle	19074.17	TR200	Steady_SDF_PR	1185.00	27.44	42.70	35.33	42.79	0.000950	1.48	1008.85	141.29	0.14
Valle	19074.17	TR200	SDP_PR	810.00	27.44	41.11	34.09	41.18	0.000914	1.31	783.56	141.29	0.14
Valle	18855.21	TR100	Steady_SDF_PR	1026.00	27.41	41.86	35.47	41.93	0.000980	1.35	1025.43	198.48	0.14
Valle	18855.21	TR100	SDP_PR	795.00	27.41	40.84	34.60	40.91	0.001096	1.33	823.52	198.48	0.14
Valle	18855.21	TR200	Steady_SDF_PR	1185.00	27.41	42.54	36.01	42.60	0.000908	1.36	1160.28	198.48	0.13
Valle	18855.21	TR200	SDP_PR	810.00	27.41	40.91	34.67	40.98	0.001088	1.33	836.93	198.48	0.14
Valle	18747.57	TR100	Steady_SDF_PR	1026.00	27.49	41.77	35.63	41.83	0.000899	1.27	1079.00	193.10	0.13
Valle	18747.57	TR100	SDP_PR	795.00	27.49	40.75	34.67	40.80	0.000991	1.24	880.88	193.10	0.13
Valle	18747.57	TR200	Steady_SDF_PR	1185.00	27.49	42.46	36.55	42.51	0.000842	1.28	1211.26	193.10	0.12
Valle	18747.57	TR200	SDP_PR	810.00	27.49	40.81	34.74	40.87	0.000984	1.24	894.04	193.10	0.13
Valle	18475.44	TR100	Steady_SDF_PR	1026.00	27.55	41.69	34.85	41.71	0.000336	0.79	1720.10	308.46	0.08
Valle	18475.44	TR100	SDP_PR	795.00	27.55	40.65	33.86	40.67	0.000382	0.78	1397.93	308.46	0.09
Valle	18475.44	TR200	Steady_SDF_PR	1185.00	27.55	42.39	35.34	42.41	0.000310	0.80	1934.57	308.46	0.08
Valle	18475.44	TR200	SDP_PR	810.00	27.55	40.71	33.92	40.73	0.000379	0.78	1419.37	308.46	0.09
Valle	18284.36	TR100	Steady_SDF_PR	1026.00	27.20	41.60	32.36	41.65	0.000520	1.10	1195.99	178.60	0.10
Valle	18284.36	TR100	SDP_PR	795.00	27.20	40.55	31.64	40.60	0.000502	1.01	1009.39	178.60	0.10
Valle	18284.36	TR200	Steady_SDF_PR	1185.00	27.20	42.30	32.81	42.35	0.000521	1.14	1320.33	178.60	0.10
Valle	18284.36	TR200	SDP_PR	810.00	27.20	40.62	31.69	40.67	0.000504	1.02	1021.80	178.60	0.10
Valle	18123.04	TR100	Steady_SDF_PR	1026.00	27.32	41.47	35.12	41.54	0.000971	1.39	1000.86	171.90	0.13
Valle	18123.04	TR100	SDP_PR	795.00	27.32	40.42	34.02	40.49	0.001046	1.35	820.47	171.90	0.14
Valle	18123.04	TR200	Steady_SDF_PR	1185.00	27.32	42.17	35.86	42.24	0.000920	1.41	1121.22	171.90	0.13
Valle	18123.04	TR200	SDP_PR	810.00	27.32	40.49	34.09	40.56	0.001041	1.36	832.45	171.90	0.14
Valle	17808.36	TR100	Steady_SDF_PR	1026.00	26.94	41.38	34.56	41.40	0.000323	0.76	1734.30	301.22	0.08
Valle	17808.36	TR100	SDP_PR	795.00	26.94	40.32	33.55	40.33	0.000368	0.75	1412.20	301.22	0.08
Valle	17808.36	TR200	Steady_SDF_PR	1185.00	26.94	42.10	35.17	42.12	0.000298	0.77	1948.62	301.22	0.08
Valle	17808.36	TR200	SDP_PR	810.00	26.94	40.39	33.62	40.41	0.000365	0.75	1433.63	301.22	0.08
Valle	17622.30	TR100	Steady_SDF_PR	1026.00	26.86	41.34	34.67	41.36	0.000328	0.80	1656.06	267.00	0.08
Valle	17622.30	TR100	SDP_PR	795.00	26.86	40.27	33.86	40.29	0.000356	0.77	1369.15	267.00	0.08
Valle	17622.30	TR200	Steady_SDF_PR	1185.00	26.86	42.06	35.20	42.08	0.000310	0.81	1846.79	267.00	0.08
Valle	17622.30	TR200	SDP_PR	810.00	26.86	40.34	33.91	40.36	0.000354	0.77	1388.25	267.00	0.08
Valle	17400.17	TR100	Steady_SDF_PR	1026.00	26.49	41.21	34.07	41.26	0.000692	1.20	1118.71	174.00	0.12
Valle	17400.17	TR100	SDP_PR	795.00	26.49	40.13	33.12	40.18	0.000720	1.14	931.00	174.00	0.12
Valle	17400.17	TR200	Steady_SDF_PR	1185.00	26.49	41.93	34.88	41.98	0.000668	1.23	1243.55	174.00	0.12
Valle	17400.17	TR200	SDP_PR	810.00	26.49	40.20	33.19	40.25	0.000719	1.14	943.50	174.00	0.12
Valle	17140.63	TR100	Steady_SDF_PR	1026.00	26.41	41.11	33.54	41.14	0.000460	1.02	1348.52	211.63	0.10
Valle	17140.63	TR100	SDP_PR	795.00	26.41	40.02	32.62	40.05	0.000484	0.98	1118.04	211.63	0.10
Valle	17140.63	TR200	Steady_SDF_PR	1185.00	26.41	41.83	34.17	41.87	0.000442	1.04	1501.79	211.63	0.10
Valle	17140.63	TR200	SDP_PR	810.00	26.41	40.09	32.68	40.12	0.000483	0.98	1133.37	211.63	0.10
Valle	16863.50	TR100	Steady_SDF_PR	1026.00	26.18	41.05	33.90	41.07	0.000282	0.71	1850.91	316.00	0.07
Valle	16863.50	TR100	SDP_PR	795.00	26.18	39.95	32.84	39.97	0.000325	0.70	1503.03	316.00	0.08
Valle	16863.50	TR200	Steady_SDF_PR	1185.00	26.18	41.78	34.97	41.80	0.000259	0.72	2081.85	316.00	0.07
Valle	16863.50	TR200	SDP_PR	810.00	26.18	40.03	32.91	40.04	0.000322	0.70	1526.21	316.00	0.08
Valle	16636.60	TR100	Steady_SDF_PR	1026.00	26.32	40.94	32.82	41.00	0.000712	1.28	1048.65	151.82	0.12
Valle	16636.60	TR100	SDP_PR	795.00	26.32	39.83	31.90	39.89	0.000711	1.20	881.02	151.82	0.12
Valle	16636.60	TR200	Steady_SDF_PR	1185.00	26.32	41.67	33.44	41.73	0.000704	1.32	1159.88	151.82	0.12
Valle	16636.60	TR200	SDP_PR	810.00	26.32	39.91	31.96	39.96	0.000712	1.21	892.19	151.82	0.12
Valle	16525.94	TR100	Steady_SDF_PR	1026.00	26.06	40.89	34.37	40.93	0.000565	1.08	1239.02	190.23	0.11
Valle	16525.94	TR100	SDP_PR	795.00	26.06	39.78	33.14	39.81	0.000599	1.03	1028.03	190.23	0.11
Valle	16525.94	TR200	Steady_SDF_PR	1185.00	26.06	41.62	34.96	41.67	0.000541	1.11	1379.08	190.23	0.10
Valle	16525.94	TR200	SDP_PR	810.00	26.06	39.85	33.34	39.89	0.000597	1.04	1042.08	190.23	0.11
Valle	16263.78	TR100	Steady_SDF_PR	1026.00	26.08	40.72	34.18	40.77	0.000764	1.21	1084.74	169.92	0.12
Valle	16263.78	TR100	SDP_PR	795.00	26.08	39.60	33.00	39.64	0.000824	1.16	894.30	169.92	0.12
Valle	16263.78	TR200	Steady_SDF_PR	1185.00	26.08	41.46	35.76	41.52	0.000725	1.23	1211.10	169.92	0.12
Valle	16263.78	TR200	SDP_PR	810.00	26.08	39.67	33.07	39.72	0.000820	1.17	906.98	169.92	0.12
Valle	15896.49	TR100	Steady_SDF_PR	1026.00	25.58	40.69	33.28	40.70	0.000151	0.56	2582.72	479.64	0.06
Valle	15896.49	TR100	SDP_PR	795.00	25.58	39.54	32.21	39.55	0.000190	0.58	2034.51	479.64	0.06
Valle	15896.49	TR200	Steady_SDF_PR	1185.00	25.58	41.44	33.73	41.45	0.000133	0.55	2944.65	479.64	0.05
Valle	15896.49	TR200	SDP_PR	810.00	25.58	39.62	32.27	39.63	0.000187	0.58	2071.16	479.64	0.06
Valle	15451.12	TR100	Steady_SDF_PR	1026.00	25.62	40.61	33.53	40.63	0.000291	0.74	1778.33	286.15	0.07
Valle	15451.12	TR100	SDP_PR	795.00	25.62	39.46	32.50	39.47	0.000333	0.74	1447.23	286.15	0.08
Valle	15451.12	TR200	Steady_SDF_PR	1185.00	25.62	41.37	36.13	41.39	0.000269	0.75	1996.09	286.15	0.07
Valle	15451.12	TR200	SDP_PR	810.00	25.62	39.53	32.56	39.55	0.000330	0.74	1469.44	286.15	0.08
Valle	15201.75	TR100	Steady_SDF_PR	1026.00	26.11	40.57	32.96	40.58	0.000229	0.68	1920.09	302.27	0.07
Valle	15201.75	TR100	SDP_PR	795.00	26.11	39.40	32.29	39.42	0.000258	0.67	1568.03	302.27	0.07
Valle	15201.75	TR200	Steady_SDF_PR	1185.00	26.11	41.33	33.37	41.35	0.000214	0.69	2151.29	302.27	0.07
Valle	15201.75	TR200	SDP_PR	810.00	26.11	39.48	32.34	39.50	0.000256	0.67	1591.67	302.27	0.07
Valle	14827.92	TR100	Steady_SDF_PR	1026.00	25.50	40.52	33.01	40.53	0.000164	0.55	2444.52	432.36	0.06
Valle	14827.92	TR100	SDP_PR	795.00	25.50	39.34	32.20	39.35	0.000205	0.56	1935.20	432.36	0.06
Valle	14827.92	TR200	Steady_SDF_PR	1185.00	25.50	41.29	33.79	41.30	0.000146	0.55	2777.96	432.36	0.06

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Valle	14827.92	TR200	SDP_PR	810.00	25.50	39.42	32.30	39.43	0.000201	0.56	1969.48	432.36	0.06
Valle	14578.89	TR100	Steady_SDF_PR	1026.00	25.35	40.48	31.90	40.49	0.000225	0.66	1989.33	314.53	0.07
Valle	14578.89	TR100	SDP_PR	795.00	25.35	39.29	31.03	39.31	0.000259	0.65	1616.54	314.53	0.07
Valle	14578.89	TR200	Steady_SDF_PR	1185.00	25.35	41.25	32.49	41.27	0.000208	0.67	2232.90	314.53	0.06
Valle	14578.89	TR200	SDP_PR	810.00	25.35	39.37	31.10	39.39	0.000256	0.65	1641.67	314.53	0.07
Valle	14336.84	TR100	Steady_SDF_PR	1026.00	25.30	40.43	30.36	40.45	0.000197	0.70	1924.24	273.76	0.07
Valle	14336.84	TR100	SDP_PR	795.00	25.30	39.24	29.67	39.26	0.000206	0.66	1598.63	273.76	0.07
Valle	14336.84	TR200	Steady_SDF_PR	1185.00	25.30	41.21	30.83	41.22	0.000191	0.72	2136.86	273.76	0.06
Valle	14336.84	TR200	SDP_PR	810.00	25.30	39.32	29.72	39.34	0.000206	0.67	1620.59	273.76	0.07
Valle	14088.45	TR100	Steady_SDF_PR	1026.00	25.33	40.34	33.44	40.38	0.000481	1.00	1322.96	196.96	0.10
Valle	14088.45	TR100	SDP_PR	795.00	25.33	39.15	32.59	39.18	0.000525	0.96	1087.97	196.96	0.10
Valle	14088.45	TR200	Steady_SDF_PR	1185.00	25.33	41.12	35.00	41.16	0.000456	1.02	1476.33	196.96	0.10
Valle	14088.45	TR200	SDP_PR	810.00	25.33	39.23	32.65	39.26	0.000522	0.97	1103.83	196.96	0.10
Valle	13825.13	TR100	Steady_SDF_PR	1026.00	24.93	40.26	34.86	40.28	0.000346	0.84	1596.20	246.56	0.08
Valle	13825.13	TR100	SDP_PR	795.00	24.93	39.05	32.63	39.07	0.000395	0.83	1298.62	246.56	0.09
Valle	13825.13	TR200	Steady_SDF_PR	1185.00	24.93	41.04	35.08	41.07	0.000321	0.85	1789.97	246.56	0.08
Valle	13825.13	TR200	SDP_PR	810.00	24.93	39.13	32.70	39.15	0.000391	0.83	1318.74	246.56	0.09
Valle	13676.20	TR100	Steady_SDF_PR	1026.00	24.84	40.19	32.15	40.23	0.000450	1.03	1333.70	191.67	0.09
Valle	13676.20	TR100	SDP_PR	795.00	24.84	38.98	31.15	39.01	0.000481	1.00	1101.43	191.67	0.10
Valle	13676.20	TR200	Steady_SDF_PR	1185.00	24.84	40.98	32.79	41.02	0.000432	1.05	1484.79	191.67	0.09
Valle	13676.20	TR200	SDP_PR	810.00	24.84	39.06	31.22	39.10	0.000479	1.00	1117.15	191.67	0.10
Valle	13449.69	TR100	Steady_SDF_PR	1026.00	24.82	40.13	31.55	40.16	0.000266	0.79	1607.14	220.58	0.08
Valle	13449.69	TR100	SDP_PR	795.00	24.82	38.91	31.01	38.94	0.000275	0.74	1338.96	220.58	0.08
Valle	13449.69	TR200	Steady_SDF_PR	1185.00	24.82	40.92	31.88	40.95	0.000260	0.82	1781.59	220.58	0.08
Valle	13449.69	TR200	SDP_PR	810.00	24.82	39.00	31.05	39.02	0.000275	0.75	1357.11	220.58	0.08
Valle	13207.25	TR100	Steady_SDF_PR	1026.00	24.82	40.03	32.90	40.07	0.000552	1.06	1181.94	165.22	0.11
Valle	13207.25	TR100	SDP_PR	795.00	24.82	38.81	32.06	38.85	0.000586	1.00	980.65	165.22	0.11
Valle	13207.25	TR200	Steady_SDF_PR	1185.00	24.82	40.82	33.40	40.87	0.000533	1.09	1312.85	165.22	0.11
Valle	13207.25	TR200	SDP_PR	810.00	24.82	38.89	32.11	38.93	0.000583	1.00	994.28	165.22	0.11
Valle	12962.78	TR100	Steady_SDF_PR	1026.00	24.44	39.94	32.22	39.97	0.000377	0.91	1436.24	203.29	0.09
Valle	12962.78	TR100	SDP_PR	795.00	24.44	38.71	31.13	38.74	0.000408	0.87	1186.55	203.29	0.09
Valle	12962.78	TR200	Steady_SDF_PR	1185.00	24.44	40.73	32.77	40.77	0.000361	0.93	1598.45	203.29	0.09
Valle	12962.78	TR200	SDP_PR	810.00	24.44	38.79	31.20	38.82	0.000405	0.87	1203.47	203.29	0.09
Valle	12700.18	TR100	Steady_SDF_PR	1026.00	24.41	39.81	30.99	39.86	0.000487	1.08	1158.93	146.46	0.10
Valle	12700.18	TR100	SDP_PR	795.00	24.41	38.58	30.32	38.62	0.000481	1.00	978.98	146.46	0.10
Valle	12700.18	TR200	Steady_SDF_PR	1185.00	24.41	40.61	31.43	40.66	0.000487	1.13	1275.86	146.46	0.10
Valle	12700.18	TR200	SDP_PR	810.00	24.41	38.67	30.37	38.71	0.000482	1.00	991.18	146.46	0.10
Valle	12462.76	TR100	Steady_SDF_PR	1026.00	24.49	39.83	31.93	39.83	0.000055	0.34	3995.74	644.65	0.03
Valle	12462.76	TR100	SDP_PR	795.00	24.49	38.59	30.92	38.59	0.000068	0.35	3196.76	644.65	0.04
Valle	12462.76	TR200	Steady_SDF_PR	1185.00	24.49	40.63	32.99	40.64	0.000050	0.34	4514.33	644.65	0.03
Valle	12462.76	TR200	SDP_PR	810.00	24.49	38.67	30.99	38.68	0.000067	0.35	3250.94	644.65	0.04
Valle	12145.81	TR100	Steady_SDF_PR	1026.00	24.21	39.81	31.05	39.82	0.000077	0.43	3123.97	448.83	0.04
Valle	12145.81	TR100	SDP_PR	795.00	24.21	38.57	30.33	38.58	0.000086	0.42	2566.60	448.83	0.04
Valle	12145.81	TR200	Steady_SDF_PR	1185.00	24.21	40.62	31.41	40.62	0.000072	0.44	3485.49	448.83	0.04
Valle	12145.81	TR200	SDP_PR	810.00	24.21	38.66	30.38	38.66	0.000085	0.42	2604.42	448.83	0.04
Valle	11848.67	TR100	Steady_SDF_PR	1026.00	24.10	39.75	31.24	39.78	0.000354	0.92	1390.76	175.35	0.09
Valle	11848.67	TR100	SDP_PR	795.00	24.10	38.51	30.28	38.54	0.000357	0.86	1173.06	175.35	0.09
Valle	11848.67	TR200	Steady_SDF_PR	1185.00	24.10	40.55	31.72	40.59	0.000351	0.96	1531.91	175.35	0.09
Valle	11848.67	TR200	SDP_PR	810.00	24.10	38.59	30.34	38.62	0.000357	0.87	1187.84	175.35	0.09
Valle	11572.95	TR100	Steady_SDF_PR	1026.00	24.12	39.61	32.41	39.66	0.000608	1.16	1108.92	146.06	0.11
Valle	11572.95	TR100	SDP_PR	795.00	24.12	38.36	31.34	38.41	0.000630	1.09	927.44	146.06	0.11
Valle	11572.95	TR200	Steady_SDF_PR	1185.00	24.12	40.41	33.02	40.47	0.000595	1.20	1226.62	146.06	0.11
Valle	11572.95	TR200	SDP_PR	810.00	24.12	38.45	31.41	38.49	0.000628	1.10	939.76	146.06	0.11
Valle	11296.23	TR100	Steady_SDF_PR	1026.00	24.21	39.43	30.70	39.49	0.000605	1.26	989.78	118.53	0.12
Valle	11296.23	TR100	SDP_PR	795.00	24.21	38.19	30.01	38.24	0.000578	1.14	843.14	118.53	0.11
Valle	11296.23	TR200	Steady_SDF_PR	1185.00	24.21	40.23	31.13	40.30	0.000615	1.32	1085.02	118.53	0.12
Valle	11296.23	TR200	SDP_PR	810.00	24.21	38.27	30.06	38.33	0.000580	1.15	853.09	118.53	0.11
Valle	11093.14	TR100	Steady_SDF_PR	1026.00	24.34	39.35	31.72	39.39	0.000474	1.01	1277.26	176.12	0.10
Valle	11093.14	TR100	SDP_PR	795.00	24.34	38.11	30.70	38.14	0.000508	0.97	1057.75	176.12	0.10
Valle	11093.14	TR200	Steady_SDF_PR	1185.00	24.34	40.16	32.43	40.20	0.000455	1.04	1419.83	176.12	0.10
Valle	11093.14	TR200	SDP_PR	810.00	24.34	38.19	30.77	38.22	0.000505	0.97	1072.65	176.12	0.10
Valle	10883.58	TR100	Steady_SDF_PR	1026.00	24.24	39.32	32.09	39.33	0.000181	0.65	1925.02	235.24	0.06
Valle	10883.58	TR100	SDP_PR	795.00	24.24	38.07	30.65	38.08	0.000184	0.61	1631.05	235.24	0.06
Valle	10883.58	TR200	Steady_SDF_PR	1185.00	24.24	40.13	32.60	40.15	0.000178	0.68	2115.97	235.24	0.06
Valle	10883.58	TR200	SDP_PR	810.00	24.24	38.15	30.71	38.17	0.000184	0.61	1651.00	235.24	0.06
Valle	10838		Bridge										
Valle	10808.62	TR100	Steady_SDF_PR	1026.00	24.31	39.23	32.15	39.25	0.000199	0.68	1887.99	241.35	0.06
Valle	10808.62	TR100	SDP_PR	795.00	24.31	38.00	31.08	38.02	0.000205	0.65	1592.39	241.35	0.06
Valle	10808.62	TR200	Steady_SDF_PR	1185.00	24.31	40.01	32.58	40.02	0.000196	0.71	2075.33	241.35	0.06
Valle	10808.62	TR200	SDP_PR	810.00	24.31	38.09	31.17	38.10	0.000205	0.65	1612.50	241.35	0.06
Valle	10625.76	TR100	Steady_SDF_PR	1026.00	23.84	39.14	31.59	39.19	0.000537	1.11	1134.16	141.32	0.11
Valle	10625.76	TR100	SDP_PR	795.00	23.84	37.92	30.73	37.96	0.000534	1.02	961.59	141.32	0.10
Valle	10625.76	TR200	Steady_SDF_PR	1185.00	23.84	39.92	32.16	39.97	0.000539	1.16	1243.46	141.32	0.11
Valle	10625.76	TR200	SDP_PR	810.00	23.84	38.00	30.79	38.05	0.000534	1.03	973.34	141.32	0.10

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	10384.01	TR100	Steady_SDF_PR	1026.00	23.63	39.05	30.63	39.09	0.000432	1.03	1294.11	171.91	0.09
Valle	10384.01	TR100	SDP_PR	795.00	23.63	37.82	29.71	37.86	0.000443	0.97	1083.24	171.91	0.09
Valle	10384.01	TR200	Steady_SDF_PR	1185.00	23.63	39.83	31.19	39.87	0.000427	1.07	1427.58	171.91	0.09
Valle	10384.01	TR200	SDP_PR	810.00	23.63	37.91	29.78	37.94	0.000442	0.98	1097.59	171.91	0.09
Valle	10164.65	TR100	Steady_SDF_PR	1026.00	23.68	38.90	31.29	38.98	0.000752	1.35	945.52	115.52	0.13
Valle	10164.65	TR100	SDP_PR	795.00	23.68	37.68	30.46	37.74	0.000732	1.24	804.48	115.52	0.12
Valle	10164.65	TR200	Steady_SDF_PR	1185.00	23.68	39.68	31.87	39.76	0.000764	1.42	1034.74	115.52	0.13
Valle	10164.65	TR200	SDP_PR	810.00	23.68	37.77	30.52	37.83	0.000733	1.24	814.08	115.52	0.12
Valle	9853.624	TR100	Steady_SDF_PR	1026.00	23.70	38.82	31.70	38.84	0.000278	0.81	1614.76	211.73	0.08
Valle	9853.624	TR100	SDP_PR	795.00	23.70	37.59	30.90	37.61	0.000290	0.77	1354.08	211.73	0.08
Valle	9853.624	TR200	Steady_SDF_PR	1185.00	23.70	39.60	32.81	39.62	0.000273	0.84	1779.59	211.73	0.08
Valle	9853.624	TR200	SDP_PR	810.00	23.70	37.67	30.97	37.69	0.000289	0.77	1371.82	211.73	0.08
Valle	9716.848	TR100	Steady_SDF_PR	1026.00	23.71	38.71	30.58	38.78	0.000775	1.34	938.43	116.94	0.13
Valle	9716.848	TR100	SDP_PR	795.00	23.71	37.49	29.71	37.55	0.000762	1.23	795.19	116.94	0.12
Valle	9716.848	TR200	Steady_SDF_PR	1185.00	23.71	39.49	31.18	39.56	0.000784	1.41	1028.93	116.94	0.13
Valle	9716.848	TR200	SDP_PR	810.00	23.71	37.57	29.77	37.63	0.000763	1.24	804.94	116.94	0.12
Valle	9552.186	TR100	Steady_SDF_PR	1026.00	23.70	38.59	32.11	38.66	0.000776	1.41	958.21	121.67	0.13
Valle	9552.186	TR100	SDP_PR	795.00	23.70	37.36	30.78	37.42	0.000775	1.31	809.15	121.67	0.13
Valle	9552.186	TR200	Steady_SDF_PR	1185.00	23.70	39.36	32.54	39.44	0.000778	1.47	1052.38	121.67	0.13
Valle	9552.186	TR200	SDP_PR	810.00	23.70	37.45	30.86	37.51	0.000775	1.32	819.30	121.67	0.13
Valle	9422.668	TR100	Steady_SDF_PR	1026.00	23.64	38.54	30.86	38.58	0.000425	1.03	1235.60	148.66	0.10
Valle	9422.668	TR100	SDP_PR	795.00	23.64	37.32	29.95	37.35	0.000418	0.94	1053.18	148.66	0.09
Valle	9422.668	TR200	Steady_SDF_PR	1185.00	23.64	39.32	31.87	39.36	0.000429	1.08	1350.86	148.66	0.10
Valle	9422.668	TR200	SDP_PR	810.00	23.64	37.40	30.00	37.43	0.000418	0.95	1065.59	148.66	0.09
Valle	9270.217	TR100	Steady_SDF_PR	1026.00	23.35	38.45	31.46	38.51	0.000621	1.20	1054.20	132.47	0.11
Valle	9270.217	TR100	SDP_PR	795.00	23.35	37.23	30.14	37.27	0.000622	1.11	891.93	132.47	0.11
Valle	9270.217	TR200	Steady_SDF_PR	1185.00	23.35	39.23	31.99	39.28	0.000622	1.25	1156.69	132.47	0.12
Valle	9270.217	TR200	SDP_PR	810.00	23.35	37.31	30.26	37.36	0.000622	1.11	902.97	132.47	0.11
Valle	9147.280	TR100	Steady_SDF_PR	1026.00	23.56	38.37	30.97	38.43	0.000651	1.22	1053.59	136.74	0.11
Valle	9147.280	TR100	SDP_PR	795.00	23.56	37.15	29.87	37.19	0.000663	1.15	885.87	136.74	0.11
Valle	9147.280	TR200	Steady_SDF_PR	1185.00	23.56	39.15	31.65	39.21	0.000647	1.27	1159.47	136.74	0.12
Valle	9147.280	TR200	SDP_PR	810.00	23.56	37.23	29.94	37.28	0.000662	1.15	897.28	136.74	0.11
Valle	9011.580	TR100	Steady_SDF_PR	1026.00	23.52	38.34	30.82	38.37	0.000304	0.85	1530.75	198.56	0.08
Valle	9011.580	TR100	SDP_PR	795.00	23.52	37.11	29.67	37.13	0.000315	0.80	1286.15	198.56	0.08
Valle	9011.580	TR200	Steady_SDF_PR	1185.00	23.52	39.12	32.38	39.15	0.000300	0.87	1685.14	198.56	0.08
Valle	9011.580	TR200	SDP_PR	810.00	23.52	37.20	29.73	37.22	0.000315	0.80	1302.80	198.56	0.08
Valle	8866.367	TR100	Steady_SDF_PR	1026.00	23.49	38.28	30.94	38.32	0.000433	1.02	1244.31	155.65	0.10
Valle	8866.367	TR100	SDP_PR	795.00	23.49	37.05	30.15	37.08	0.000436	0.95	1052.76	155.65	0.10
Valle	8866.367	TR200	Steady_SDF_PR	1185.00	23.49	39.05	31.55	39.10	0.000433	1.07	1365.16	155.65	0.10
Valle	8866.367	TR200	SDP_PR	810.00	23.49	37.13	30.20	37.16	0.000436	0.95	1065.80	155.65	0.10
Valle	8790.411	TR100	Steady_SDF_PR	1026.00	23.54	38.23	31.19	38.28	0.000562	1.14	1114.91	139.53	0.11
Valle	8790.411	TR100	SDP_PR	795.00	23.54	37.00	30.25	37.04	0.000566	1.05	943.34	139.53	0.11
Valle	8790.411	TR200	Steady_SDF_PR	1185.00	23.54	39.01	31.91	39.06	0.000562	1.19	1223.11	139.53	0.11
Valle	8790.411	TR200	SDP_PR	810.00	23.54	37.08	30.32	37.13	0.000566	1.06	955.02	139.53	0.11
Valle	8676.232	TR100	Steady_SDF_PR	1026.00	23.38	38.21	31.09	38.23	0.000325	0.90	1471.00	189.76	0.08
Valle	8676.232	TR100	SDP_PR	795.00	23.38	36.97	29.94	37.00	0.000335	0.85	1236.79	189.76	0.08
Valle	8676.232	TR200	Steady_SDF_PR	1185.00	23.38	38.99	31.70	39.02	0.000321	0.93	1618.67	189.76	0.08
Valle	8676.232	TR200	SDP_PR	810.00	23.38	37.06	30.02	37.08	0.000334	0.85	1252.74	189.76	0.08
Valle	8556.530	TR100	Steady_SDF_PR	1026.00	23.65	38.16	31.78	38.20	0.000432	1.01	1275.29	159.91	0.09
Valle	8556.530	TR100	SDP_PR	795.00	23.65	36.93	31.06	36.96	0.000439	0.94	1077.98	159.91	0.09
Valle	8556.530	TR200	Steady_SDF_PR	1185.00	23.65	38.94	32.20	38.98	0.000430	1.05	1399.64	159.91	0.09
Valle	8556.530	TR200	SDP_PR	810.00	23.65	37.01	31.10	37.04	0.000439	0.95	1091.41	159.91	0.09
Valle	8447.122	TR100	Steady_SDF_PR	1026.00	23.17	38.10	31.08	38.15	0.000573	1.21	1083.60	133.04	0.11
Valle	8447.122	TR100	SDP_PR	795.00	23.17	36.87	30.21	36.91	0.000567	1.12	919.67	133.04	0.11
Valle	8447.122	TR200	Steady_SDF_PR	1185.00	23.17	38.88	31.47	38.93	0.000578	1.26	1186.86	133.04	0.11
Valle	8447.122	TR200	SDP_PR	810.00	23.17	36.95	30.27	37.00	0.000568	1.12	930.83	133.04	0.11
Valle	8312.702	TR100	Steady_SDF_PR	1026.00	23.26	38.03	30.47	38.08	0.000540	1.18	1101.09	132.40	0.11
Valle	8312.702	TR100	SDP_PR	795.00	23.26	36.80	29.64	36.84	0.000529	1.09	938.13	132.40	0.10
Valle	8312.702	TR200	Steady_SDF_PR	1185.00	23.26	38.80	30.90	38.86	0.000549	1.24	1203.72	132.40	0.11
Valle	8312.702	TR200	SDP_PR	810.00	23.26	36.88	29.71	36.92	0.000529	1.10	949.22	132.40	0.10
Valle	8195.470	TR100	Steady_SDF_PR	1026.00	23.09	37.97	30.44	38.02	0.000488	1.10	1170.67	144.10	0.10
Valle	8195.470	TR100	SDP_PR	795.00	23.09	36.74	29.30	36.78	0.000484	1.02	993.25	144.10	0.10
Valle	8195.470	TR200	Steady_SDF_PR	1185.00	23.09	38.75	30.96	38.80	0.000492	1.15	1282.40	144.10	0.10
Valle	8195.470	TR200	SDP_PR	810.00	23.09	36.83	29.36	36.87	0.000485	1.03	1005.33	144.10	0.10
Valle	8088.245	TR100	Steady_SDF_PR	1026.00	23.28	37.88	30.45	37.95	0.000798	1.45	905.34	110.93	0.13
Valle	8088.245	TR100	SDP_PR	795.00	23.28	36.65	29.54	36.72	0.000778	1.34	769.41	110.93	0.13
Valle	8088.245	TR200	Steady_SDF_PR	1185.00	23.28	38.65	31.50	38.73	0.000811	1.53	990.90	110.93	0.13
Valle	8088.245	TR200	SDP_PR	810.00	23.28	36.73	29.60	36.80	0.000779	1.35	778.66	110.93	0.13
Valle	7848.724	TR100	Steady_SDF_PR	1026.00	23.63	37.77	30.71	37.81	0.000497	1.10	1160.53	143.49	0.10
Valle	7848.724	TR100	SDP_PR	795.00	23.63	36.54	29.57	36.58	0.000494	1.02	984.29	143.49	0.10
Valle	7848.724	TR200	Steady_SDF_PR	1185.00	23.63	38.54	31.14	38.59	0.000501	1.16	1271.45	143.49	0.11
Valle	7848.724	TR200	SDP_PR	810.00	23.63	36.62	29.63	36.66	0.000495	1.02	996.28	143.49	0.10
Valle	7708.453	TR100	Steady_SDF_PR	1026.00	23.86	37.61	31.31	37.71	0.001124	1.65	798.49	100.76	0.15
Valle	7708.453	TR100	SDP_PR	795.00	23.86	36.39	30.68	36.48	0.001113	1.52	675.52	100.76	0.15
Valle	7708.453	TR200	Steady_SDF_PR	1185.00	23.86	38.38	31.67	38.49	0.001135	1.72	875.81	100.76	0.16
Valle	7708.453	TR200	SDP_PR	810.00	23.86	36.47	30.73	36.56	0.001114	1.53	683.89	100.76	0.15

HEC-RAS River: Parma Reach: Valle (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	7517.986	TR100	Steady_SDF_PR	1026.00	23.50	37.42	29.63	37.51	0.000944	1.54	817.23	98.48	0.14
Valle	7517.986	TR100	SDP_PR	795.00	23.50	36.20	28.90	36.29	0.000899	1.40	697.85	98.48	0.14
Valle	7517.986	TR200	Steady_SDF_PR	1185.00	23.50	38.18	30.13	38.29	0.000971	1.63	892.31	98.48	0.15
Valle	7517.986	TR200	SDP_PR	810.00	23.50	36.29	28.95	36.37	0.000902	1.41	705.96	98.48	0.14
Valle	7344.482	TR100	Steady_SDF_PR	1026.00	23.42	37.31	29.57	37.37	0.000698	1.34	971.88	115.86	0.12
Valle	7344.482	TR100	SDP_PR	795.00	23.42	36.10	28.94	36.15	0.000671	1.23	831.50	115.86	0.12
Valle	7344.482	TR200	Steady_SDF_PR	1185.00	23.42	38.07	30.00	38.14	0.000714	1.41	1060.20	115.86	0.13
Valle	7344.482	TR200	SDP_PR	810.00	23.42	36.18	28.99	36.24	0.000674	1.23	841.03	115.86	0.12
Valle	7231.088	TR100	Steady_SDF_PR	1026.00	23.03	37.26	29.31	37.31	0.000534	1.18	1082.39	127.88	0.11
Valle	7231.088	TR100	SDP_PR	795.00	23.03	36.05	28.77	36.09	0.000513	1.08	927.50	127.88	0.11
Valle	7231.088	TR200	Steady_SDF_PR	1185.00	23.03	38.02	29.63	38.08	0.000547	1.25	1179.85	127.88	0.11
Valle	7231.088	TR200	SDP_PR	810.00	23.03	36.13	28.81	36.17	0.000514	1.09	938.01	127.88	0.11
Valle	7100.234	TR100	Steady_SDF_PR	1026.00	23.50	37.15	29.65	37.23	0.000825	1.48	905.17	109.34	0.13
Valle	7100.234	TR100	SDP_PR	795.00	23.50	35.94	29.18	36.01	0.000796	1.36	773.44	109.34	0.13
Valle	7100.234	TR200	Steady_SDF_PR	1185.00	23.50	37.91	30.68	37.99	0.000843	1.56	988.03	109.34	0.14
Valle	7100.234	TR200	SDP_PR	810.00	23.50	36.03	29.28	36.09	0.000799	1.37	782.38	109.34	0.13
Valle	6703.219	TR100	Steady_SDF_PR	1026.00	21.42	36.67	29.45	36.82	0.001437	1.90	664.52	79.61	0.18
Valle	6703.219	TR100	SDP_PR	795.00	21.42	35.50	28.58	35.62	0.001331	1.71	571.27	79.61	0.17
Valle	6703.219	TR200	Steady_SDF_PR	1185.00	21.42	37.40	29.95	37.57	0.001499	2.02	723.17	79.61	0.18
Valle	6703.219	TR200	SDP_PR	810.00	21.42	35.58	28.65	35.70	0.001339	1.72	577.57	79.61	0.17
Valle	6619.828	TR100	Steady_SDF_PR	1026.00	21.68	36.45	29.60	36.67	0.002109	2.32	539.44	62.99	0.21
Valle	6619.828	TR100	SDP_PR	795.00	21.68	35.31	28.75	35.49	0.001898	2.06	467.54	62.99	0.20
Valle	6619.828	TR200	Steady_SDF_PR	1185.00	21.68	37.16	30.10	37.42	0.002233	2.48	584.65	62.99	0.22
Valle	6619.828	TR200	SDP_PR	810.00	21.68	35.38	28.81	35.57	0.001914	2.08	472.40	62.99	0.20
Valle	6531.506	TR100	Steady_SDF_PR	1026.00	21.88	36.19	29.63	36.47	0.002558	2.52	488.56	53.06	0.23
Valle	6531.506	TR100	SDP_PR	795.00	21.88	35.09	28.75	35.31	0.002226	2.21	430.18	53.06	0.21
Valle	6531.506	TR200	Steady_SDF_PR	1185.00	21.88	36.89	30.19	37.20	0.002759	2.72	525.23	53.06	0.24
Valle	6531.506	TR200	SDP_PR	810.00	21.88	35.17	28.81	35.39	0.002251	2.23	434.12	53.06	0.21
Valle	6525			Bridge									
Valle	6518.361	TR100	Steady_SDF_PR	1026.00	21.88	36.05	29.77	36.35	0.002674	2.69	481.12	53.06	0.24
Valle	6518.361	TR100	SDP_PR	795.00	21.88	34.96	28.77	35.19	0.002322	2.35	423.00	53.06	0.22
Valle	6518.361	TR200	Steady_SDF_PR	1185.00	21.88	36.74	30.34	37.08	0.002888	2.98	517.59	53.06	0.25
Valle	6518.361	TR200	SDP_PR	810.00	21.88	35.03	28.83	35.27	0.002348	2.38	426.92	53.06	0.22
Valle	6483.421	TR100	Steady_SDF_PR	1026.00	22.16	36.00	29.30	36.26	0.002381	2.44	496.75	54.89	0.23
Valle	6483.421	TR100	SDP_PR	795.00	22.16	34.91	28.58	35.11	0.002072	2.13	436.99	54.89	0.21
Valle	6483.421	TR200	Steady_SDF_PR	1185.00	22.16	36.68	29.76	36.99	0.002566	2.63	534.27	54.89	0.24
Valle	6483.421	TR200	SDP_PR	810.00	22.16	34.98	28.63	35.19	0.002095	2.15	441.02	54.89	0.21
Valle	6408.034	TR100	Steady_SDF_PR	1026.00	22.07	35.80	29.21	36.07	0.002604	2.61	495.48	55.00	0.24
Valle	6408.034	TR100	SDP_PR	795.00	22.07	34.74	28.67	34.95	0.002247	2.28	437.05	55.00	0.22
Valle	6408.034	TR200	Steady_SDF_PR	1185.00	22.07	36.47	30.04	36.78	0.002821	2.81	532.20	55.00	0.25
Valle	6408.034	TR200	SDP_PR	810.00	22.07	34.81	28.72	35.03	0.002273	2.30	440.97	55.00	0.22
Valle	6278.423	TR100	Steady_SDF_PR	1026.00	21.72	35.53	29.18	35.76	0.002254	2.39	534.00	59.83	0.21
Valle	6278.423	TR100	SDP_PR	795.00	21.72	34.51	28.19	34.68	0.001931	2.09	472.44	59.83	0.19
Valle	6278.423	TR200	Steady_SDF_PR	1185.00	21.72	36.18	29.61	36.44	0.002450	2.57	572.78	59.83	0.22
Valle	6278.423	TR200	SDP_PR	810.00	21.72	34.57	28.16	34.75	0.001955	2.11	476.56	59.83	0.20
Valle	6273			Bridge									
Valle	6265.245	TR100	Steady_SDF_PR	1026.00	21.70	35.26	29.25	35.52	0.002777	2.51	489.91	59.33	0.23
Valle	6265.245	TR100	SDP_PR	795.00	21.70	34.23	28.19	34.44	0.002445	2.22	428.70	59.33	0.22
Valle	6265.245	TR200	Steady_SDF_PR	1185.00	21.70	35.91	29.73	36.21	0.002976	2.69	528.42	59.33	0.24
Valle	6265.245	TR200	SDP_PR	810.00	21.70	34.30	28.25	34.51	0.002470	2.24	432.77	59.33	0.22
Valle	6109.079	TR100	Steady_SDF_PR	1026.00	21.40	34.86	29.09	35.10	0.002705	2.45	523.98	75.27	0.23
Valle	6109.079	TR100	SDP_PR	795.00	21.40	33.85	28.15	34.05	0.002498	2.21	448.24	75.27	0.22
Valle	6109.079	TR200	Steady_SDF_PR	1185.00	21.40	35.49	30.08	35.76	0.002817	2.59	571.92	75.27	0.23
Valle	6109.079	TR200	SDP_PR	810.00	21.40	33.92	28.21	34.12	0.002517	2.23	453.21	75.27	0.22
Valle	5748.131	TR100	Steady_SDF_PR	1026.00	20.17	34.50	28.06	34.57	0.000922	1.50	959.87	158.51	0.14
Valle	5748.131	TR100	SDP_PR	795.00	20.17	33.46	27.09	33.53	0.000952	1.44	795.63	158.51	0.14
Valle	5748.131	TR200	Steady_SDF_PR	1185.00	20.17	35.15	28.59	35.23	0.000907	1.54	1064.03	158.51	0.14
Valle	5748.131	TR200	SDP_PR	810.00	20.17	33.53	27.15	33.60	0.000951	1.44	806.28	158.51	0.14
Valle	5504.071	TR100	Steady_SDF_PR	1026.00	19.87	34.45	24.86	34.47	0.000231	0.75	1766.37	260.96	0.07
Valle	5504.071	TR100	SDP_PR	795.00	19.87	33.41	24.14	33.43	0.000228	0.70	1495.38	260.96	0.07
Valle	5504.071	TR200	Steady_SDF_PR	1185.00	19.87	35.11	25.31	35.13	0.000232	0.78	1938.43	260.96	0.07
Valle	5504.071	TR200	SDP_PR	810.00	19.87	33.48	24.19	33.50	0.000228	0.71	1512.91	260.96	0.07
Valle	5495			Bridge									
Valle	5475.597	TR100	Steady_SDF_PR	1026.00	19.87	34.43	24.73	34.45	0.000160	0.81	1707.45	268.64	0.07
Valle	5475.597	TR100	SDP_PR	795.00	19.87	33.39	24.02	33.41	0.000161	0.76	1427.48	268.64	0.07
Valle	5475.597	TR200	Steady_SDF_PR	1185.00	19.87	35.09	25.19	35.12	0.000159	0.84	1885.06	268.64	0.08
Valle	5475.597	TR200	SDP_PR	810.00	19.87	33.46	24.08	33.48	0.000161	0.77	1445.59	268.64	0.07
Valle	5226.847	TR100	Steady_SDF_PR	1026.00	19.75	34.19	27.79	34.37	0.001210	2.19	630.77	100.31	0.20
Valle	5226.847	TR100	SDP_PR	795.00	19.75	33.16	26.82	33.33	0.001169	2.03	527.93	100.31	0.19
Valle	5226.847	TR200	Steady_SDF_PR	1185.00	19.75	34.84	28.22	35.03	0.001228	2.28	696.00	100.31	0.20
Valle	5226.847	TR200	SDP_PR	810.00	19.75	33.23	26.95	33.39	0.001175	2.04	534.53	100.31	0.20
Valle	5074.211	TR100	Steady_SDF_PR	1026.00	19.77	34.11	27.26	34.23	0.000791	1.80	758.64	113.87	0.16
Valle	5074.211	TR100	SDP_PR	795.00	19.77	33.09	26.55	33.19	0.000758	1.66	641.89	113.87	0.16

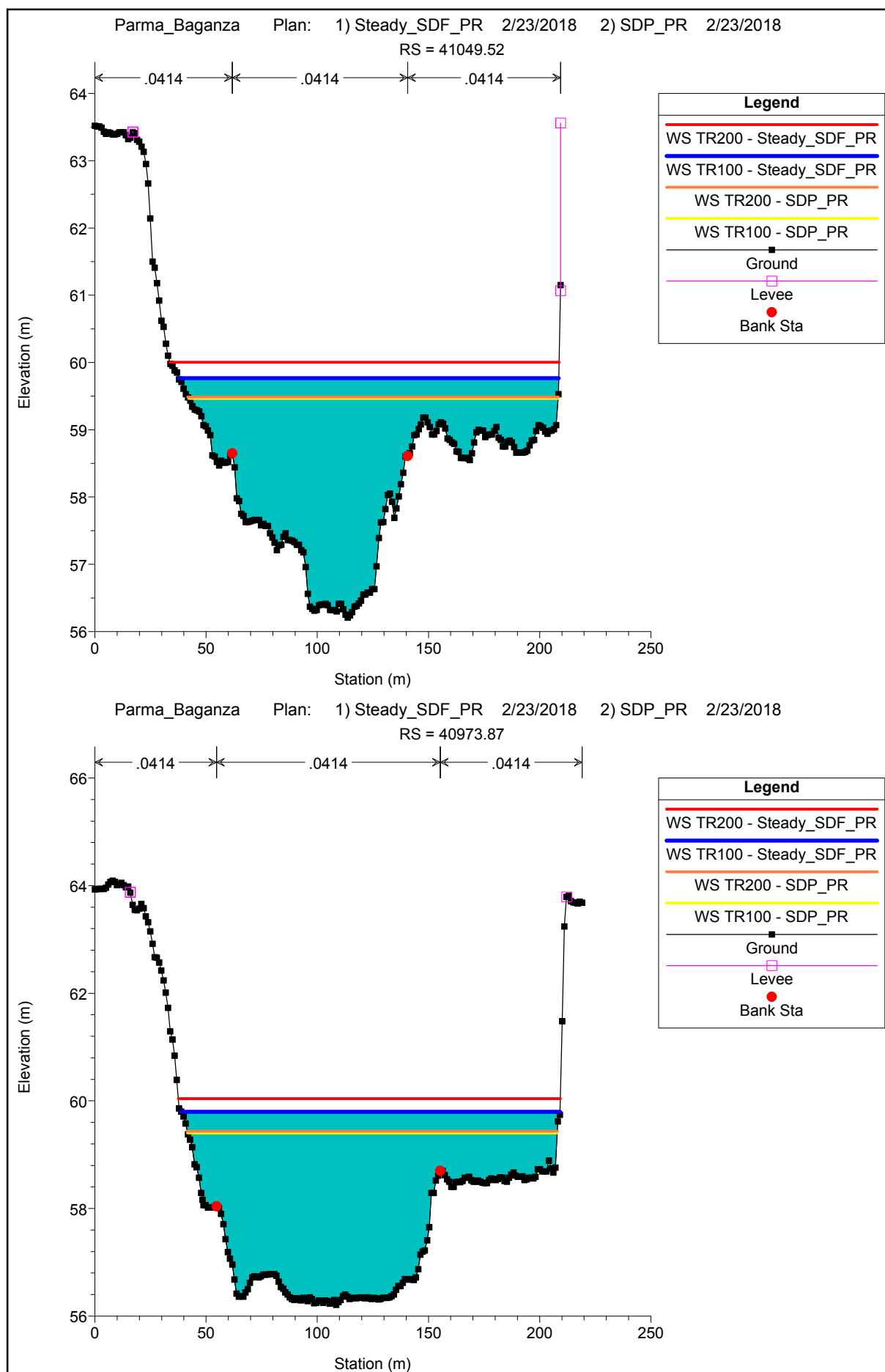
HEC-RAS River: Parma Reach: Valle (Continued)

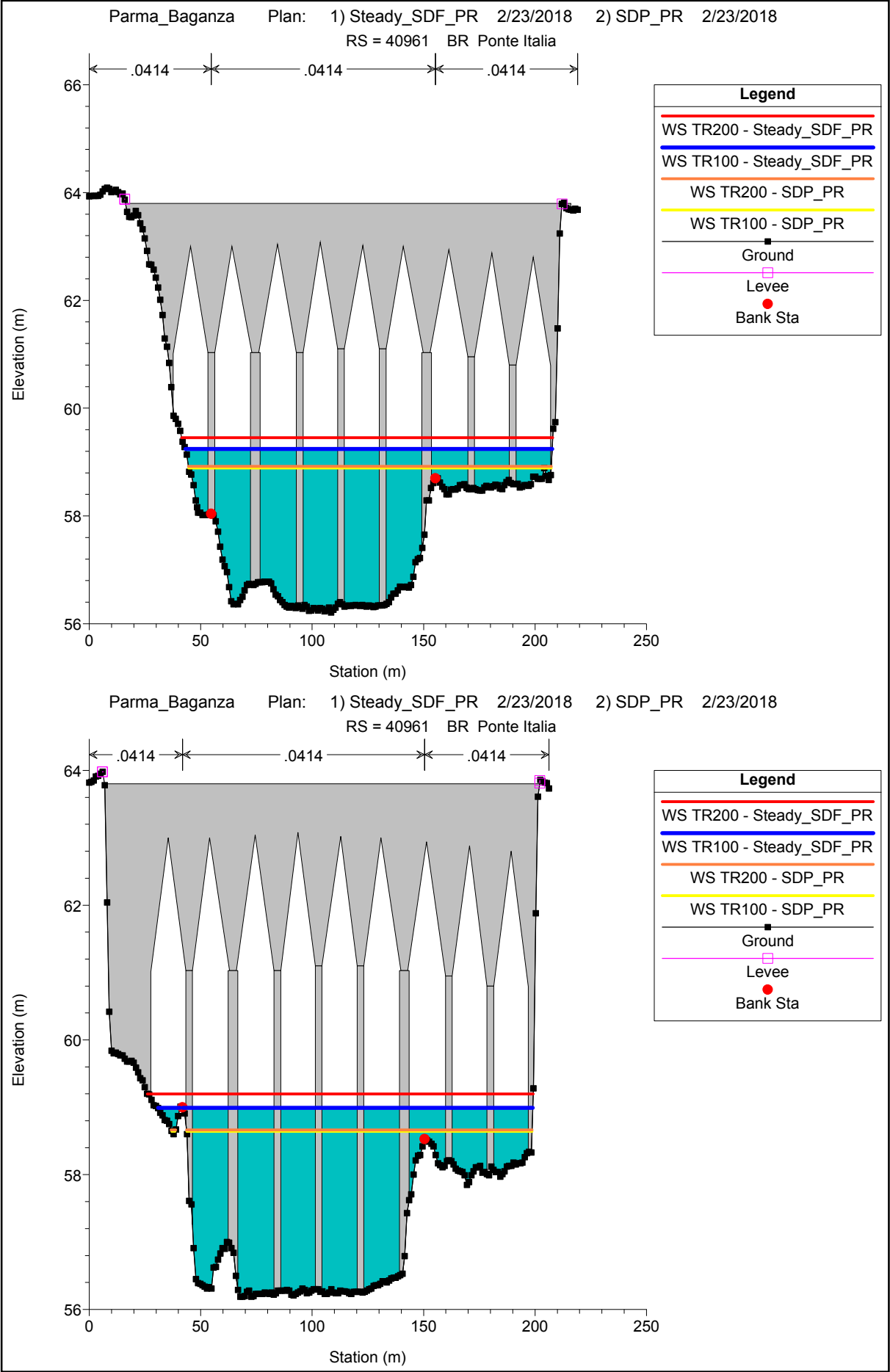
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	5074.211	TR200	Steady_SDF_PR	1185.00	19.77	34.76	27.74	34.89	0.000807	1.88	832.79	113.87	0.17
Valle	5074.211	TR200	SDP_PR	810.00	19.77	33.15	26.60	33.26	0.000762	1.67	649.36	113.87	0.16
Valle	4870.517	TR100	Steady_SDF_PR	1026.00	19.79	34.10	27.04	34.14	0.000330	1.08	1238.69	194.13	0.11
Valle	4870.517	TR100	SDP_PR	795.00	19.79	33.07	26.20	33.10	0.000337	1.02	1037.56	194.13	0.10
Valle	4870.517	TR200	Steady_SDF_PR	1185.00	19.79	34.76	27.63	34.80	0.000326	1.12	1366.44	194.13	0.11
Valle	4870.517	TR200	SDP_PR	810.00	19.79	33.13	26.26	33.17	0.000337	1.03	1050.41	194.13	0.10
Valle	4666.209	TR100	Steady_SDF_PR	1026.00	20.34	34.04	27.49	34.08	0.000355	1.17	1233.19	204.26	0.11
Valle	4666.209	TR100	SDP_PR	795.00	20.34	33.00	26.85	33.04	0.000375	1.13	1020.64	204.26	0.11
Valle	4666.209	TR200	Steady_SDF_PR	1185.00	20.34	34.70	27.84	34.74	0.000346	1.20	1368.08	204.26	0.11
Valle	4666.209	TR200	SDP_PR	810.00	20.34	33.06	26.89	33.10	0.000375	1.14	1034.19	204.26	0.11
Valle	4447.481	TR100	Steady_SDF_PR	1026.00	20.24	33.94	26.45	34.00	0.000404	1.31	1064.48	162.42	0.12
Valle	4447.481	TR100	SDP_PR	795.00	20.24	32.90	25.66	32.96	0.000395	1.22	895.77	162.42	0.12
Valle	4447.481	TR200	Steady_SDF_PR	1185.00	20.24	34.60	26.89	34.67	0.000408	1.37	1171.55	162.42	0.12
Valle	4447.481	TR200	SDP_PR	810.00	20.24	32.97	25.71	33.03	0.000397	1.23	906.49	162.42	0.12
Valle	4272.079	TR100	Steady_SDF_PR	1026.00	19.63	33.93	26.08	33.96	0.000226	1.02	1324.69	167.05	0.09
Valle	4272.079	TR100	SDP_PR	795.00	19.63	32.89	25.69	32.92	0.000208	0.92	1151.51	167.05	0.09
Valle	4272.079	TR200	Steady_SDF_PR	1185.00	19.63	34.58	26.32	34.62	0.000236	1.08	1434.66	167.05	0.09
Valle	4272.079	TR200	SDP_PR	810.00	19.63	32.96	25.72	32.98	0.000210	0.93	1162.50	167.05	0.09
Valle	4041.925	TR100	Steady_SDF_PR	1026.00	18.95	33.86	26.14	33.90	0.000283	1.16	1208.62	162.02	0.10
Valle	4041.925	TR100	SDP_PR	795.00	18.95	32.83	25.63	32.86	0.000264	1.06	1041.46	162.02	0.10
Valle	4041.925	TR200	Steady_SDF_PR	1185.00	18.95	34.51	26.47	34.56	0.000294	1.22	1314.83	162.02	0.11
Valle	4041.925	TR200	SDP_PR	810.00	18.95	32.89	25.67	32.93	0.000266	1.06	1052.04	162.02	0.10
Valle	3886.456	TR100	Steady_SDF_PR	1026.00	18.86	33.83	26.31	33.86	0.000220	0.96	1370.12	183.18	0.09
Valle	3886.456	TR100	SDP_PR	795.00	18.86	32.80	25.87	32.83	0.000207	0.88	1181.27	183.18	0.08
Valle	3886.456	TR200	Steady_SDF_PR	1185.00	18.86	34.49	26.56	34.52	0.000227	1.01	1490.15	183.18	0.09
Valle	3886.456	TR200	SDP_PR	810.00	18.86	32.87	25.90	32.89	0.000209	0.88	1193.20	183.18	0.08
Valle	3715.149	TR100	Steady_SDF_PR	1026.00	19.80	33.70	27.15	33.81	0.000738	1.76	799.80	128.37	0.16
Valle	3715.149	TR100	SDP_PR	795.00	19.80	32.67	26.13	32.77	0.000728	1.64	668.32	128.37	0.16
Valle	3715.149	TR200	Steady_SDF_PR	1185.00	19.80	34.35	27.63	34.46	0.000741	1.82	883.38	128.37	0.16
Valle	3715.149	TR200	SDP_PR	810.00	19.80	32.74	26.20	32.84	0.000731	1.65	676.57	128.37	0.16
Valle	3393.206	TR100	Steady_SDF_PR	1026.00	19.65	33.33	27.39	33.51	0.001329	2.26	623.09	99.06	0.21
Valle	3393.206	TR100	SDP_PR	795.00	19.65	32.32	26.44	32.48	0.001295	2.10	522.81	99.06	0.20
Valle	3393.206	TR200	Steady_SDF_PR	1185.00	19.65	33.97	27.99	34.17	0.001343	2.35	686.92	99.06	0.21
Valle	3393.206	TR200	SDP_PR	810.00	19.65	32.38	26.50	32.54	0.001302	2.12	528.98	99.06	0.20
Valle	3237.633	TR100	Steady_SDF_PR	1026.00	19.44	33.09	25.88	33.30	0.001305	2.18	567.68	89.25	0.21
Valle	3237.633	TR100	SDP_PR	795.00	19.44	32.11	25.01	32.29	0.001172	1.95	480.22	89.25	0.19
Valle	3237.633	TR200	Steady_SDF_PR	1185.00	19.44	33.72	26.44	33.96	0.001369	2.32	623.76	89.25	0.21
Valle	3237.633	TR200	SDP_PR	810.00	19.44	32.17	25.07	32.35	0.001186	1.97	485.50	89.25	0.19
Valle	3101.790	TR100	Steady_SDF_PR	1026.00	19.21	33.05	26.62	33.16	0.000883	1.79	785.53	131.31	0.16
Valle	3101.790	TR100	SDP_PR	795.00	19.21	32.05	25.60	32.15	0.000887	1.69	653.97	131.31	0.16
Valle	3101.790	TR200	Steady_SDF_PR	1185.00	19.21	33.69	27.40	33.81	0.000877	1.85	869.84	131.31	0.17
Valle	3101.790	TR200	SDP_PR	810.00	19.21	32.11	25.60	32.21	0.000891	1.70	661.87	131.31	0.16
Valle	2918.544	TR100	Steady_SDF_PR	1026.00	19.02	32.99	26.82	33.05	0.000488	1.30	1078.49	190.85	0.12
Valle	2918.544	TR100	SDP_PR	795.00	19.02	31.98	25.92	32.03	0.000512	1.25	886.92	182.48	0.12
Valle	2918.544	TR200	Steady_SDF_PR	1185.00	19.02	33.64	27.38	33.70	0.000469	1.32	1202.32	190.85	0.12
Valle	2918.544	TR200	SDP_PR	810.00	19.02	32.04	25.98	32.09	0.000513	1.26	897.96	182.56	0.12
Valle	2668.802	TR100	Steady_SDF_PR	1026.00	18.53	32.89	25.66	32.95	0.000457	1.37	1064.65	173.65	0.12
Valle	2668.802	TR100	SDP_PR	795.00	18.53	31.87	24.73	31.93	0.000461	1.30	888.42	173.65	0.12
Valle	2668.802	TR200	Steady_SDF_PR	1185.00	18.53	33.54	26.26	33.60	0.000452	1.41	1177.72	173.65	0.12
Valle	2668.802	TR200	SDP_PR	810.00	18.53	31.93	24.79	31.99	0.000463	1.31	898.88	173.65	0.12
Valle	2310.634	TR100	Steady_SDF_PR	1026.00	18.52	32.37	26.64	32.65	0.001935	2.68	521.42	95.41	0.25
Valle	2310.634	TR100	SDP_PR	795.00	18.52	31.36	25.68	31.63	0.001931	2.52	378.65	58.49	0.25
Valle	2310.634	TR200	Steady_SDF_PR	1185.00	18.52	33.01	27.27	33.31	0.001926	2.77	583.06	95.41	0.25
Valle	2310.634	TR200	SDP_PR	810.00	18.52	31.45	25.75	31.70	0.001809	2.45	421.77	79.92	0.24
Valle	2114.658	TR100	Steady_SDF_PR	1026.00	18.16	32.32	25.69	32.42	0.000767	1.76	829.10	147.62	0.16
Valle	2114.658	TR100	SDP_PR	795.00	18.16	31.29	24.83	31.40	0.000805	1.70	632.96	121.58	0.16
Valle	2114.658	TR200	Steady_SDF_PR	1185.00	18.16	32.97	26.19	33.08	0.000750	1.80	926.10	147.62	0.16
Valle	2114.658	TR200	SDP_PR	810.00	18.16	31.36	24.91	31.47	0.000806	1.71	641.69	121.73	0.16
Valle	2013.439	TR100	Steady_SDF_PR	1026.00	19.10	32.25	25.64	32.35	0.000729	1.63	867.72	162.06	0.16
Valle	2013.439	TR100	SDP_PR	795.00	19.10	31.24	24.80	31.32	0.000688	1.49	702.55	136.14	0.15
Valle	2013.439	TR200	Steady_SDF_PR	1185.00	19.10	32.91	26.18	33.01	0.000701	1.66	974.81	162.06	0.16
Valle	2013.439	TR200	SDP_PR	810.00	19.10	31.31	24.85	31.39	0.000688	1.49	712.35	136.58	0.15
Valle	2000			Bridge									
Valle	1985.120	TR100	Steady_SDF_PR	1026.00	19.10	32.12	25.65	32.22	0.000761	1.61	829.83	148.30	0.16
Valle	1985.120	TR100	SDP_PR	795.00	19.10	31.15	24.79	31.23	0.000732	1.48	690.57	135.59	0.15
Valle	1985.120	TR200	Steady_SDF_PR	1185.00	19.10	32.73	26.22	32.83	0.000774	1.68	944.51	162.06	0.16
Valle	1985.120	TR200	SDP_PR	810.00	19.10	31.22	24.85	31.30	0.000732	1.49	699.97	136.02	0.15
Valle	1887.897	TR100	Steady_SDF_PR	1026.00	18.85	32.05	25.41	32.15	0.000644	1.67	803.72	111.95	0.15
Valle	1887.897	TR100	SDP_PR	795.00	18.85	31.09	24.85	31.17	0.000574	1.49	697.73	109.33	0.14
Valle	1887.897	TR200	Steady_SDF_PR	1185.00	18.85	32.64	25.76	32.75	0.000761	1.87	887.11	129.32	0.17
Valle	1887.897	TR200	SDP_PR	810.00	18.85	31.16	24.89	31.24	0.000578	1.50	705.22	109.45	0.14
Valle	1720.414	TR100	Steady_SDF_PR	1026.00	18.66	31.62	26.39	31.96	0.002321	2.91	444.96	66.93	0.27
Valle	1720.414	TR100	SDP_PR	795.00	18.66	30.73	25.34	31.01	0.002016	2.57	386.79	64.60	0.25
Valle	1720.414	TR200	Steady_SDF_PR	1185.00	18.66	32.15	26.90	32.54	0.002526	3.13	496.48	80.74	0.29
Valle	1720.414	TR200	SDP_PR	810.00	18.66	30.79	25.45	31.08	0.002034	2.59	390.94	64.69	0.25

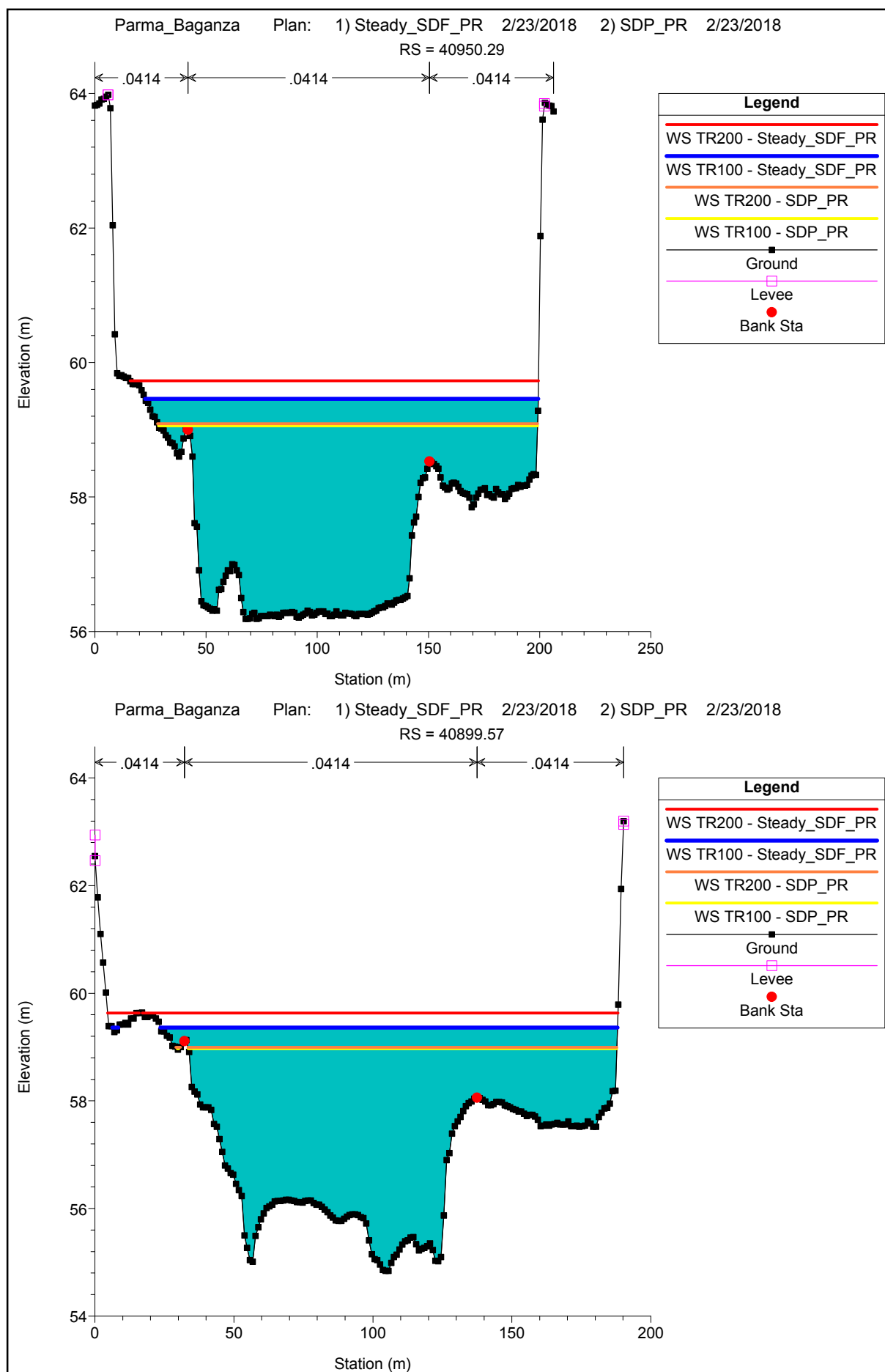
HEC-RAS River: Parma Reach: Valle (Continued)

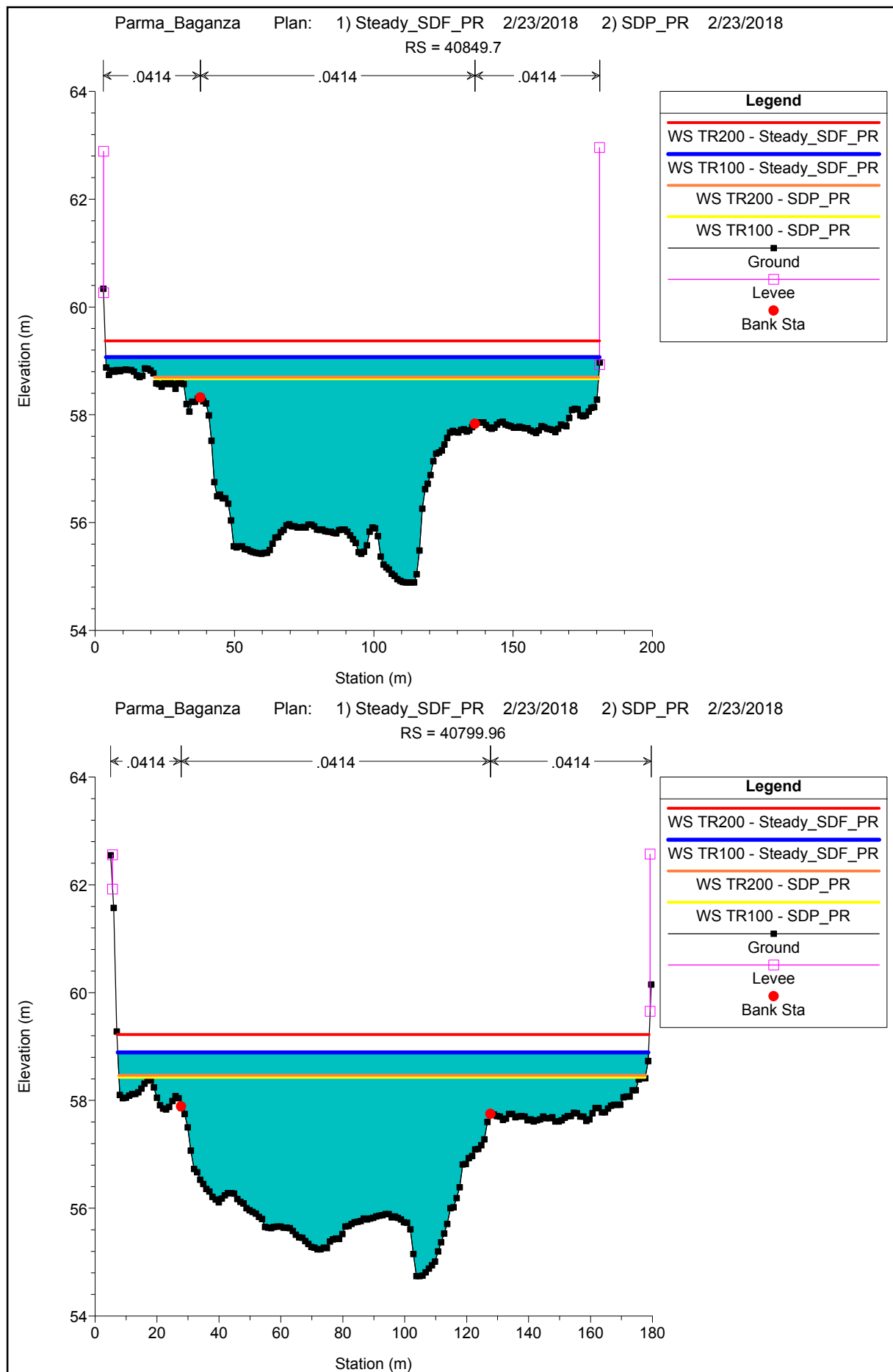
Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Valle	1573.032	TR100	Steady_SDF_PR	1026.00	16.79	31.49	24.38	31.71	0.001307	2.50	597.71	99.54	0.22
Valle	1573.032	TR100	SDP_PR	795.00	16.79	30.59	23.50	30.79	0.001169	2.26	482.57	77.92	0.21
Valle	1573.032	TR200	Steady_SDF_PR	1185.00	16.79	32.02	24.93	32.27	0.001392	2.65	651.14	99.54	0.23
Valle	1573.032	TR200	SDP_PR	810.00	16.79	30.65	23.56	30.85	0.001183	2.28	487.49	78.05	0.21
Valle	1438.146	TR100	Steady_SDF_PR	1026.00	18.16	31.27	25.53	31.51	0.001764	2.39	551.99	108.28	0.23
Valle	1438.146	TR100	SDP_PR	795.00	18.16	30.40	24.66	30.60	0.001631	2.17	450.90	85.68	0.22
Valle	1438.146	TR200	Steady_SDF_PR	1185.00	18.16	31.80	26.09	32.06	0.001827	2.52	609.32	108.28	0.24
Valle	1438.146	TR200	SDP_PR	810.00	18.16	30.46	24.72	30.67	0.001642	2.19	456.19	85.87	0.22
Valle	1260.633	TR100	Steady_SDF_PR	1026.00	18.05	30.95	25.47	31.20	0.001736	2.48	530.64	86.60	0.24
Valle	1260.633	TR100	SDP_PR	795.00	18.05	30.12	24.54	30.32	0.001540	2.22	459.02	84.75	0.22
Valle	1260.633	TR200	Steady_SDF_PR	1185.00	18.05	31.46	26.13	31.73	0.001862	2.65	574.26	87.46	0.25
Valle	1260.633	TR200	SDP_PR	810.00	18.05	30.18	24.60	30.38	0.001553	2.23	464.05	84.87	0.22
Valle	1053.629	TR100	Steady_SDF_PR	1026.00	18.45	30.49	24.95	30.81	0.002089	2.66	455.67	74.39	0.27
Valle	1053.629	TR100	SDP_PR	795.00	18.45	29.73	24.19	29.98	0.001742	2.31	400.19	73.22	0.24
Valle	1053.629	TR200	Steady_SDF_PR	1185.00	18.45	30.93	25.47	31.30	0.002321	2.89	488.94	75.29	0.28
Valle	1053.629	TR200	SDP_PR	810.00	18.45	29.79	24.24	30.04	0.001765	2.33	404.14	73.29	0.24
Valle	828.280	TR100	Steady_SDF_PR	1026.00	17.44	29.63	26.18	30.15	0.004262	3.66	368.60	69.67	0.36
Valle	828.280	TR100	SDP_PR	795.00	17.44	29.04	24.86	29.44	0.003470	3.18	327.53	68.72	0.32
Valle	828.280	TR200	Steady_SDF_PR	1185.00	17.44	29.96	26.74	30.57	0.004848	3.99	391.55	70.24	0.38
Valle	828.280	TR200	SDP_PR	810.00	17.44	29.08	24.86	29.49	0.003518	3.21	330.57	68.76	0.32
Valle	574.887	TR100	Steady_SDF_PR	1026.00	17.46	29.23	25.31	29.43	0.002036	2.45	663.24	206.77	0.25
Valle	574.887	TR100	SDP_PR	795.00	17.46	28.54	24.43	28.75	0.002193	2.42	519.72	205.81	0.26
Valle	574.887	TR200	Steady_SDF_PR	1185.00	17.46	29.61	25.99	29.81	0.002037	2.51	741.04	207.70	0.25
Valle	574.887	TR200	SDP_PR	810.00	17.46	28.59	24.50	28.80	0.002173	2.42	530.66	205.88	0.26
Valle	396.175	TR100	Steady_SDF_PR	1026.00	17.82	28.79	25.18	29.05	0.002590	2.68	595.56	204.80	0.29
Valle	396.175	TR100	SDP_PR	795.00	17.82	27.99	24.32	28.31	0.003111	2.76	428.26	195.68	0.31
Valle	396.175	TR200	Steady_SDF_PR	1185.00	17.82	29.18	25.77	29.43	0.002526	2.72	675.60	205.39	0.29
Valle	396.175	TR200	SDP_PR	810.00	17.82	28.06	24.39	28.37	0.003048	2.74	440.99	195.93	0.31
Valle	156.420	TR100	Steady_SDF_PR	1026.00	17.50	27.47	24.94	28.11	0.006533	3.79	363.07	171.51	0.44
Valle	156.420	TR100	SDP_PR	795.00	17.50	26.48	24.09	27.19	0.007837	3.78	228.09	54.59	0.48
Valle	156.420	TR200	Steady_SDF_PR	1185.00	17.50	27.96	25.46	28.55	0.005915	3.77	449.79	180.23	0.43
Valle	156.420	TR200	SDP_PR	810.00	17.50	26.55	24.16	27.26	0.007826	3.80	231.81	59.99	0.48
Valle	0.500	TR100	Steady_SDF_PR	1026.00	17.38	24.05	24.05	26.08	0.036178	6.34	164.57	41.89	0.97
Valle	0.500	TR100	SDP_PR	795.00	17.38	24.00	23.29	25.25	0.022437	4.96	162.67	41.67	0.77
Valle	0.500	TR200	Steady_SDF_PR	1185.00	17.38	24.54	24.54	26.68	0.033171	6.51	187.39	47.59	0.95
Valle	0.500	TR200	SDP_PR	810.00	17.38	24.00	23.35	25.29	0.023292	5.06	162.67	41.67	0.78

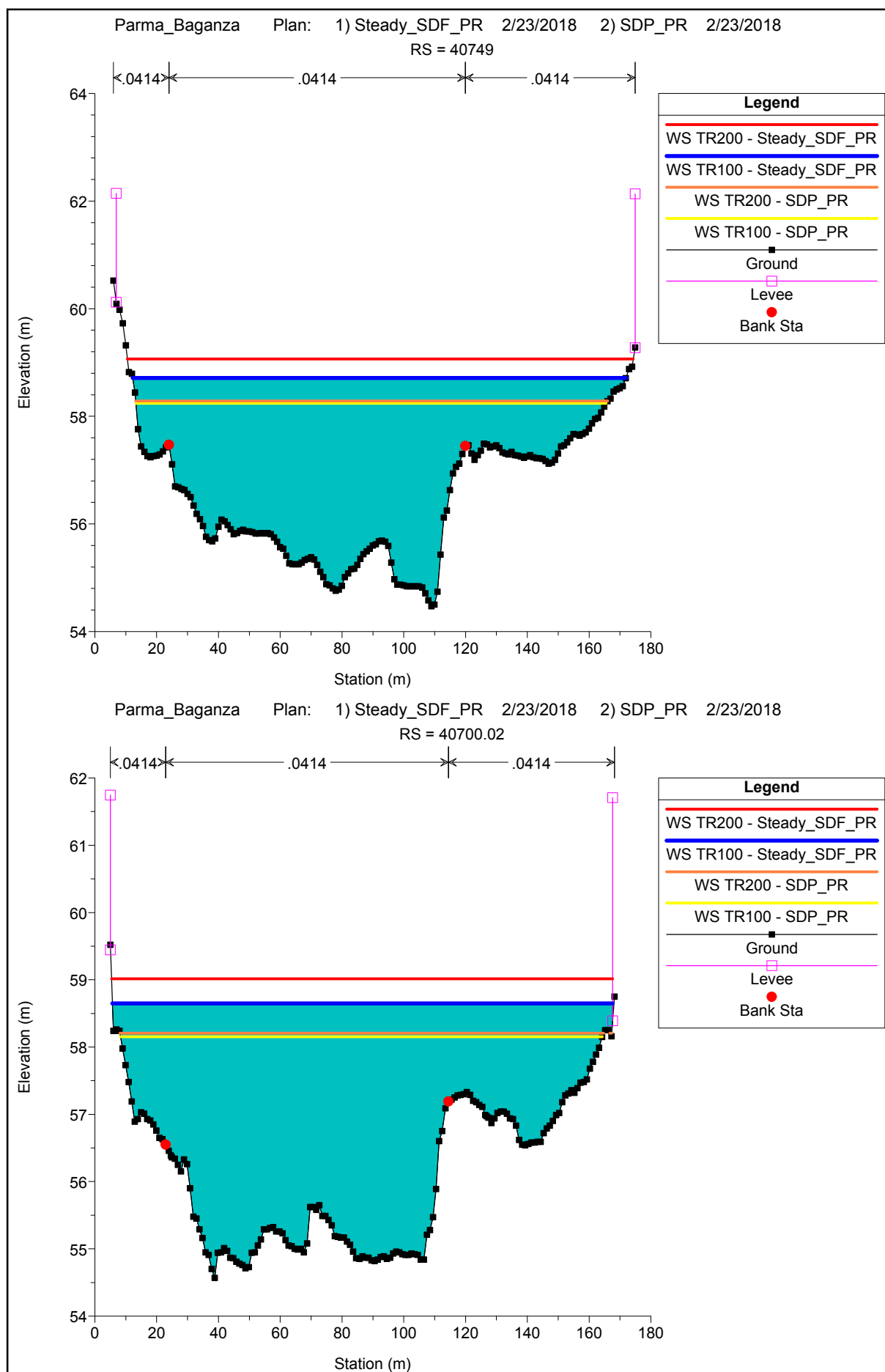


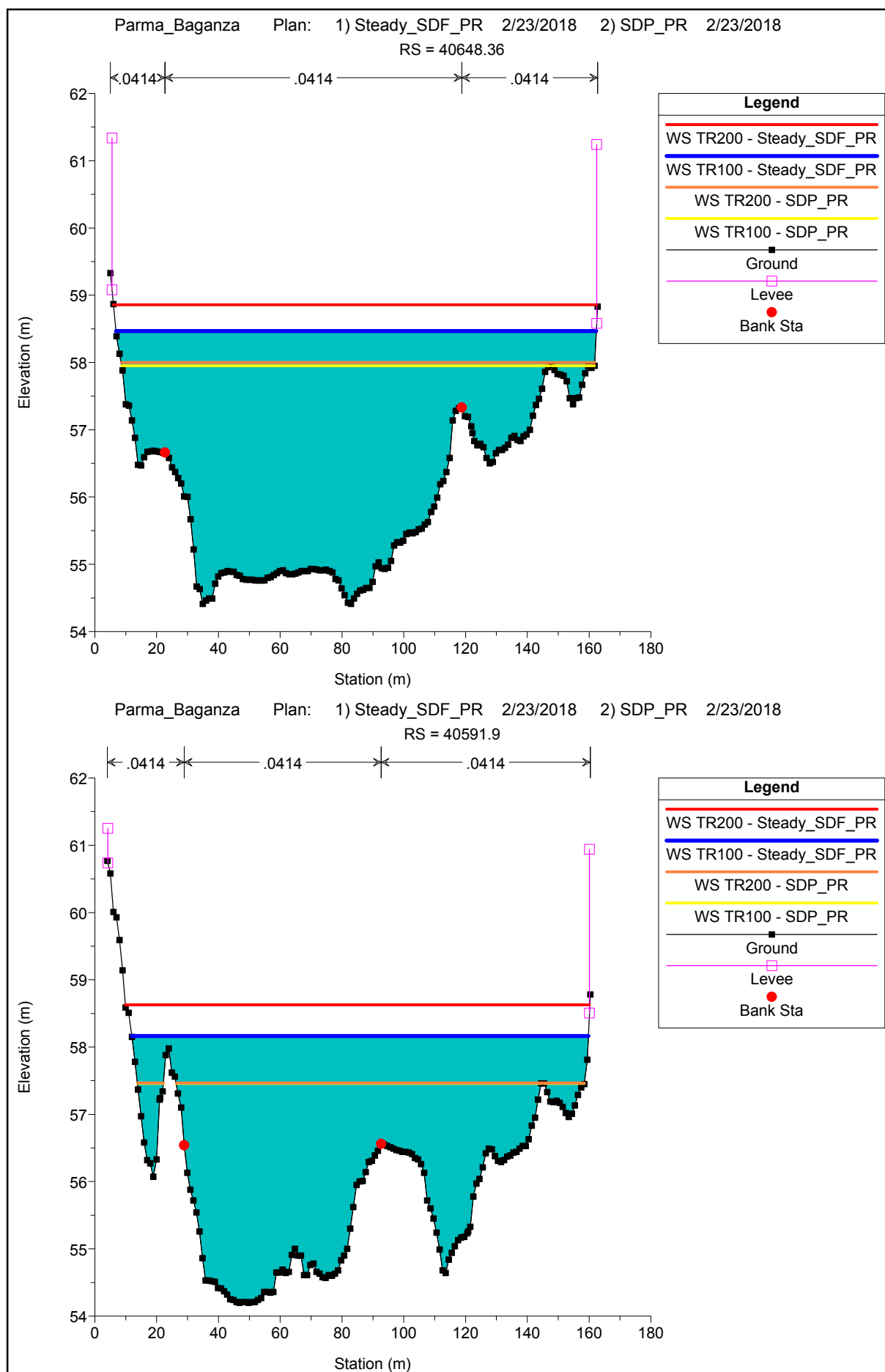


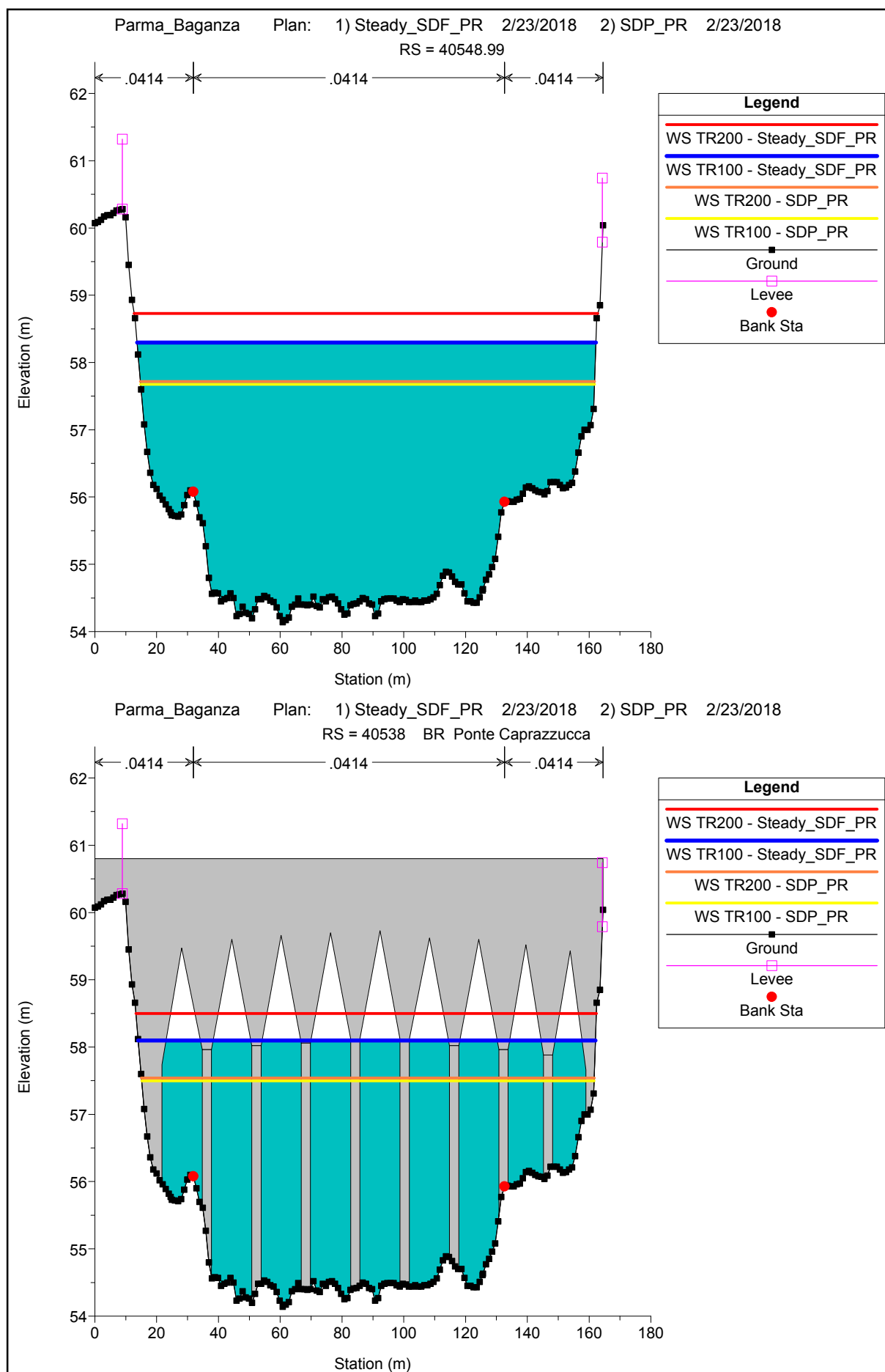


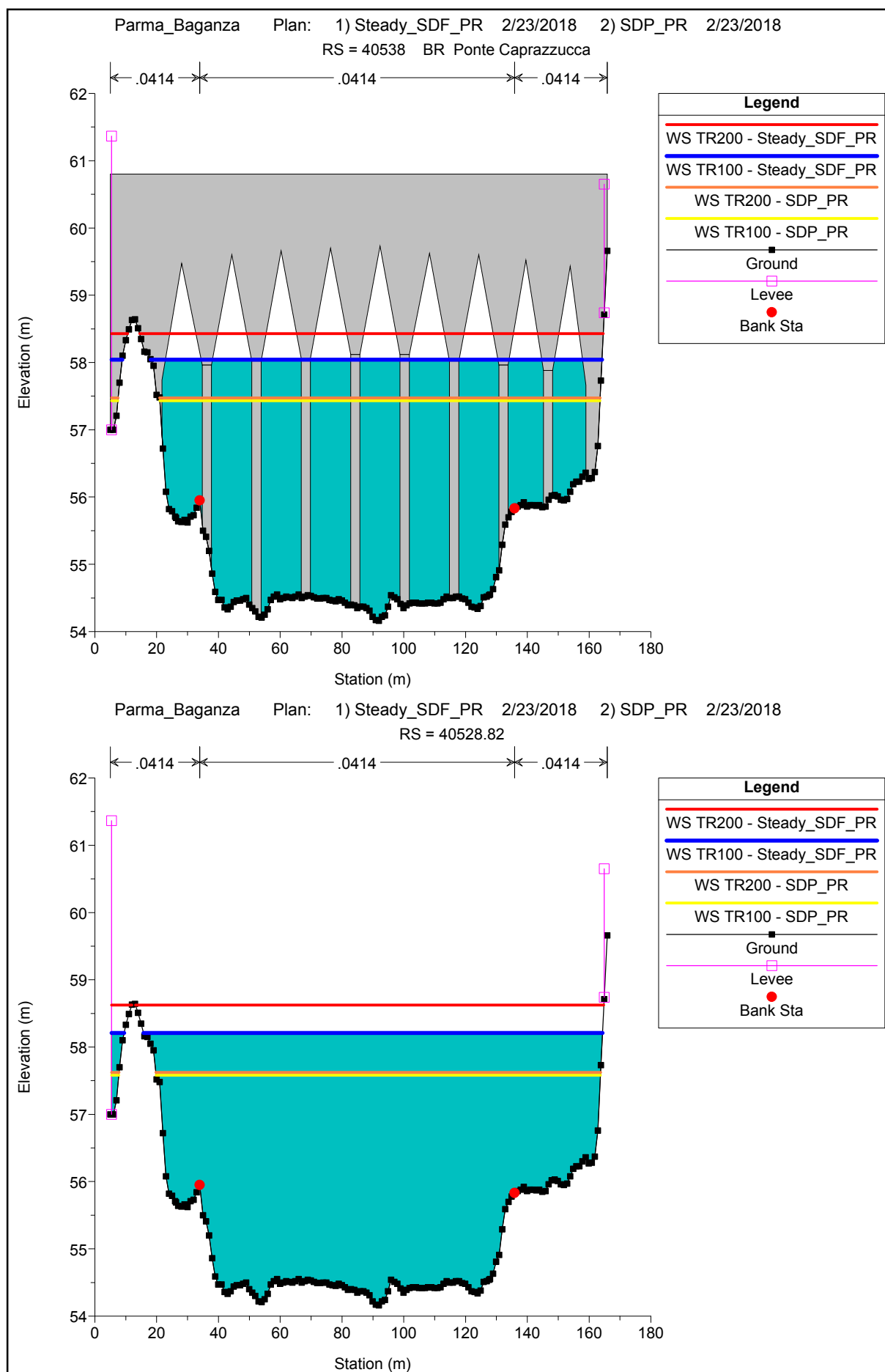




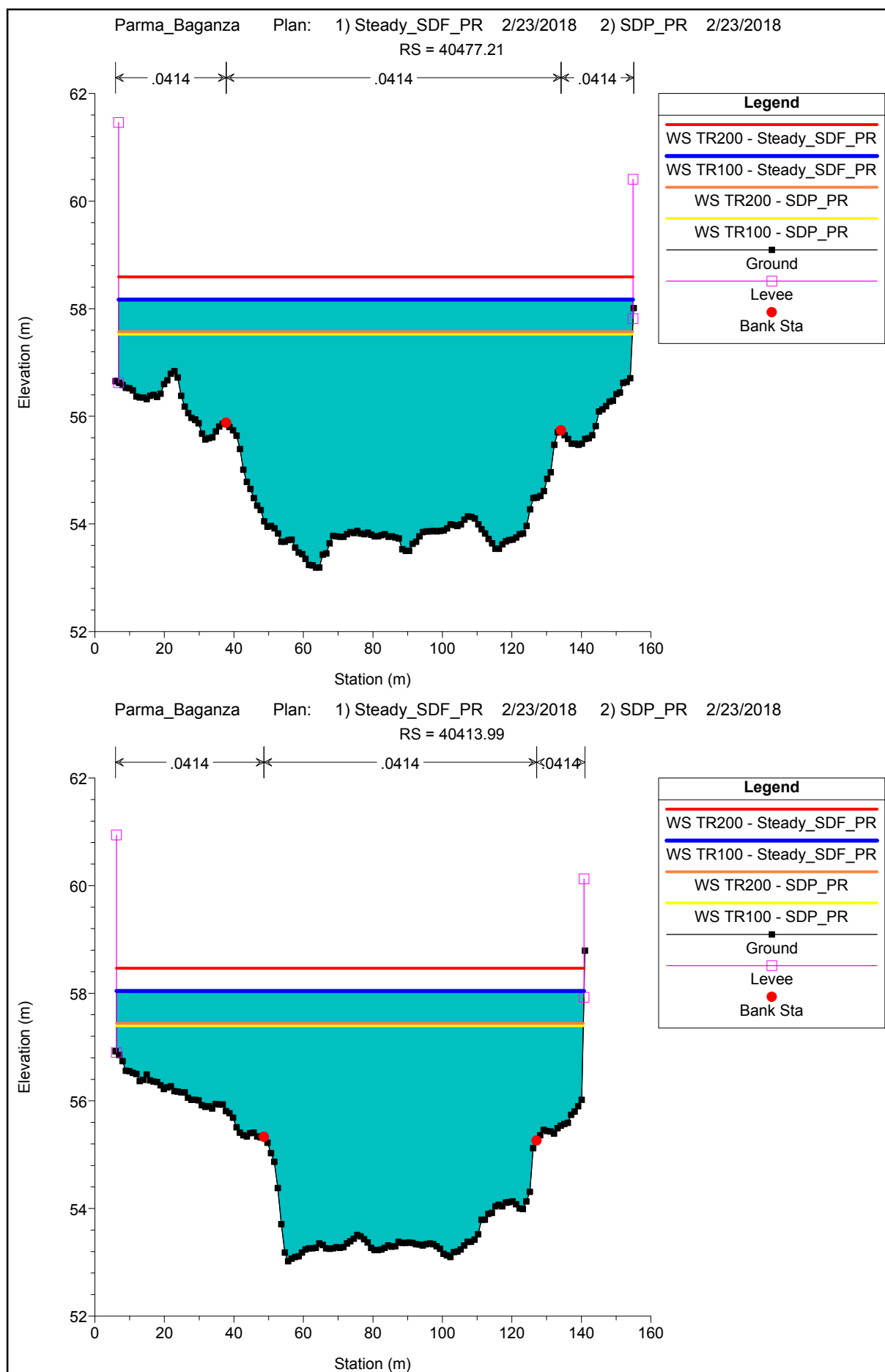


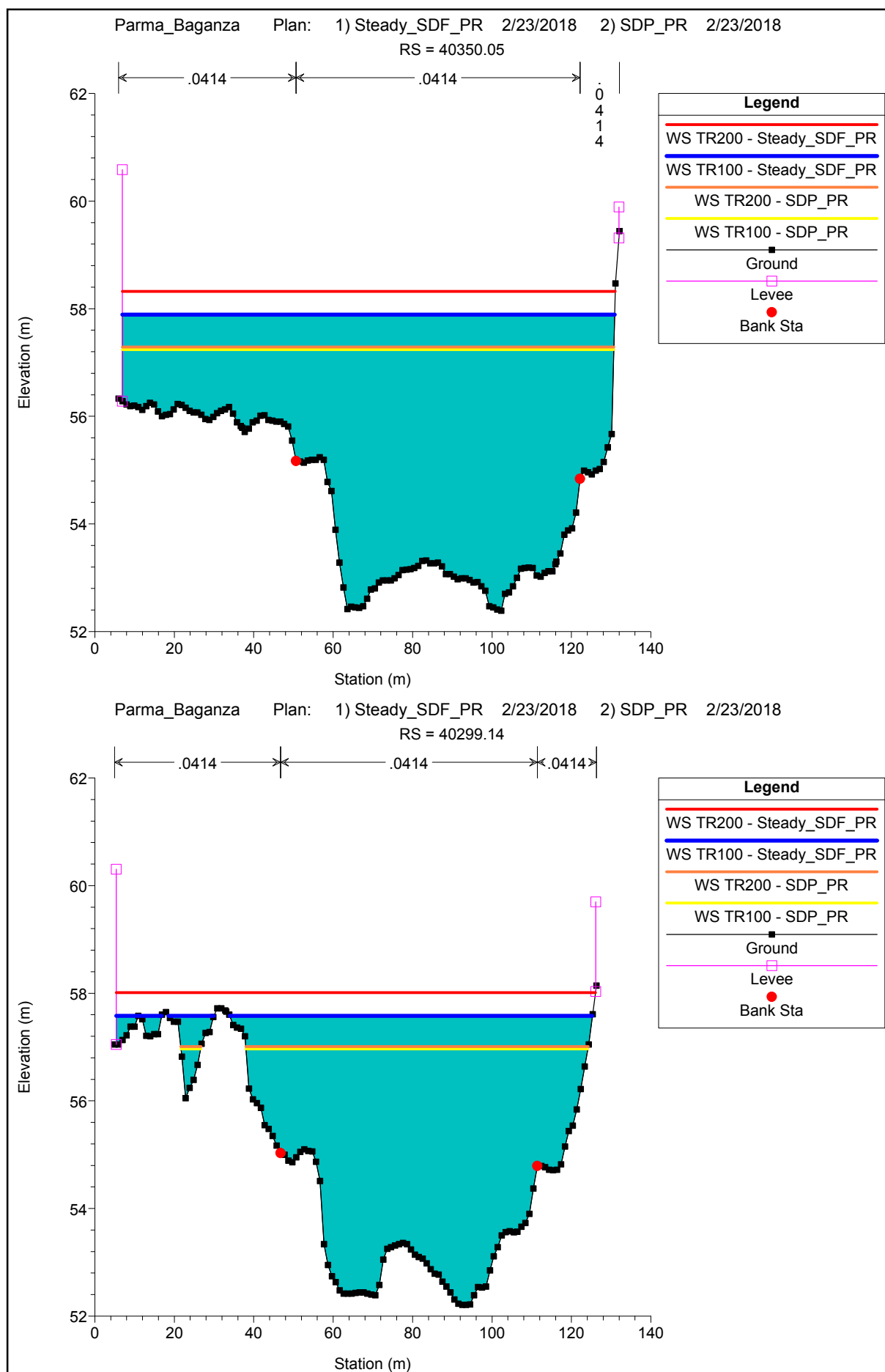


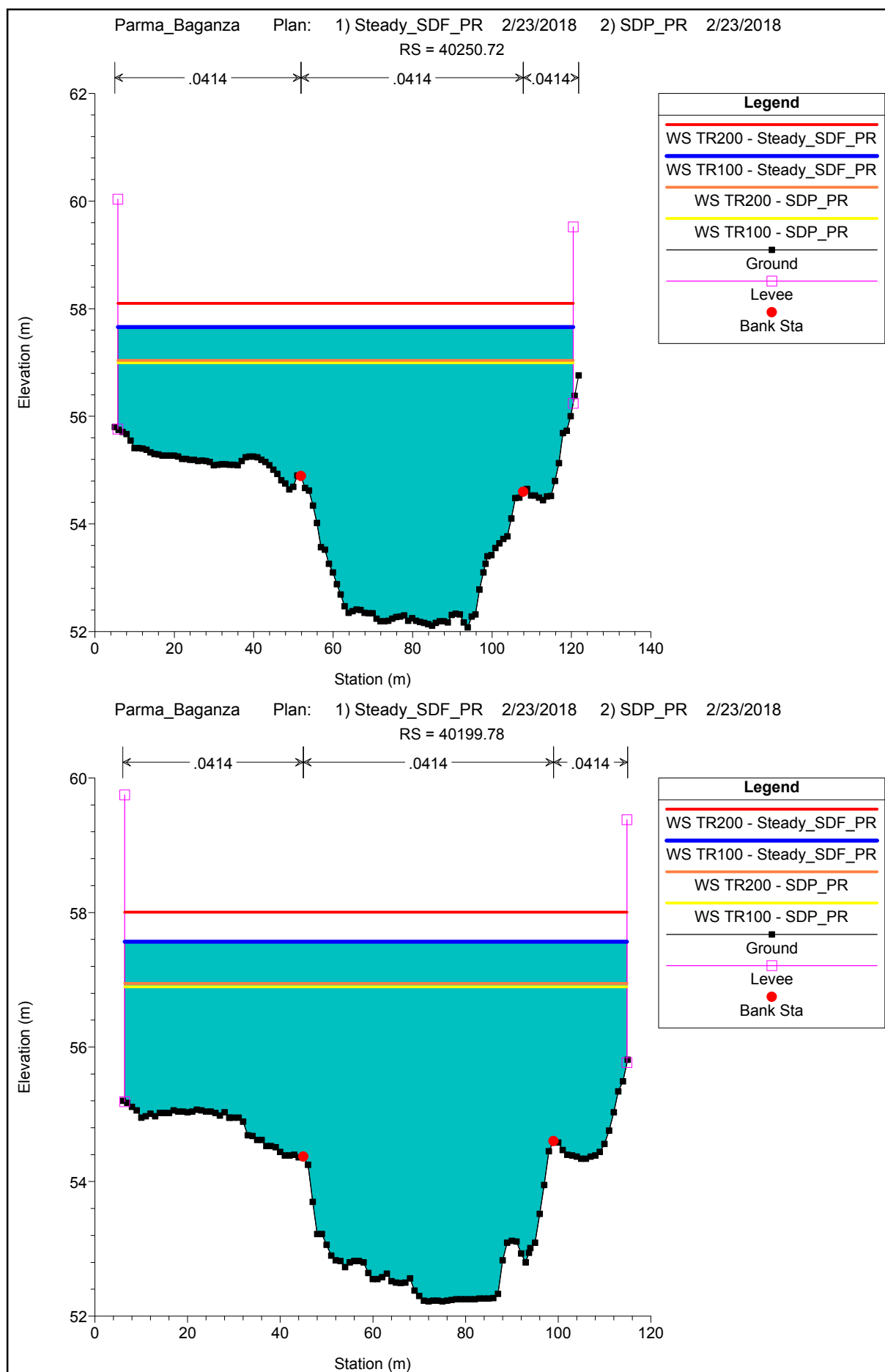


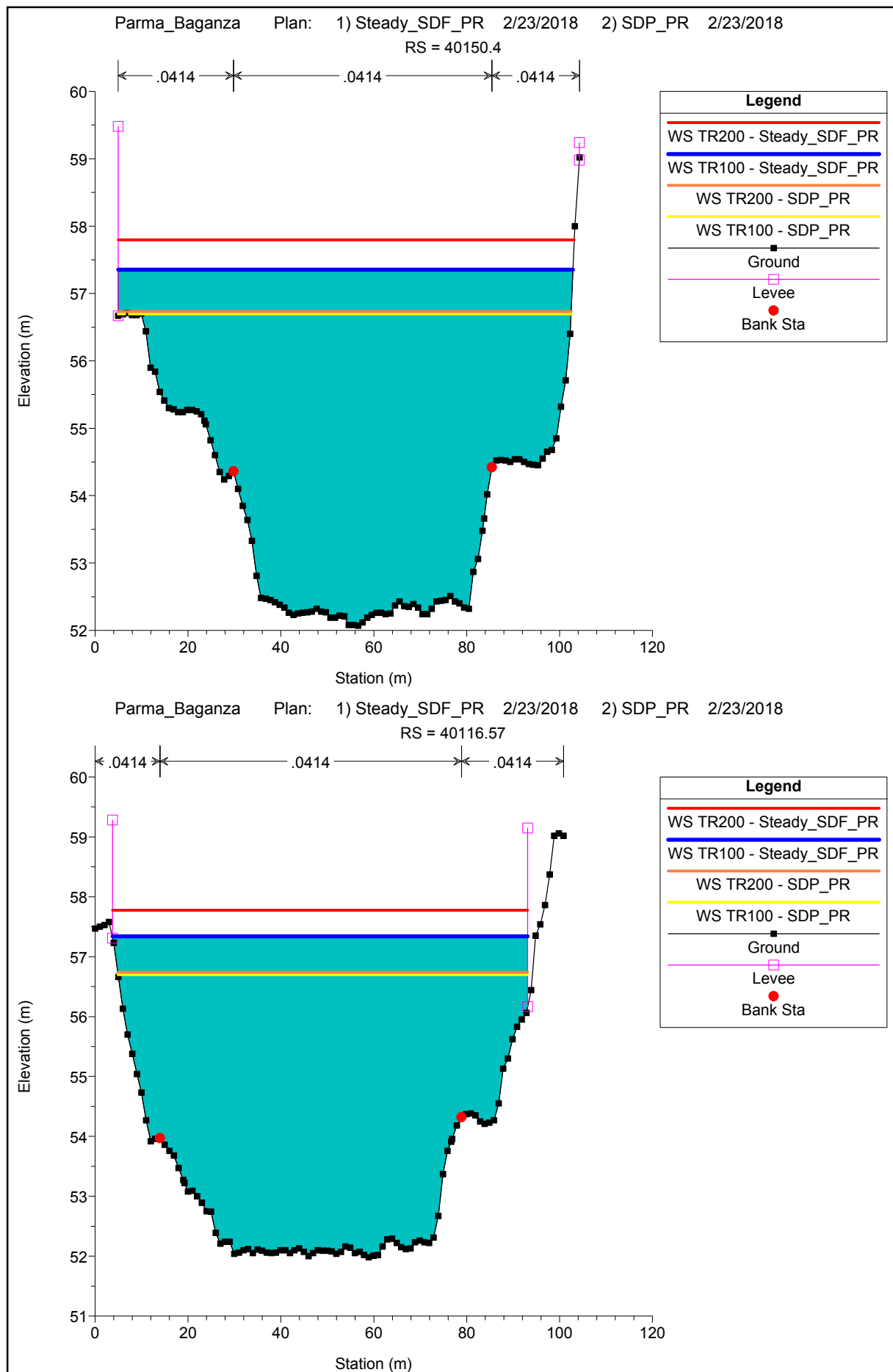


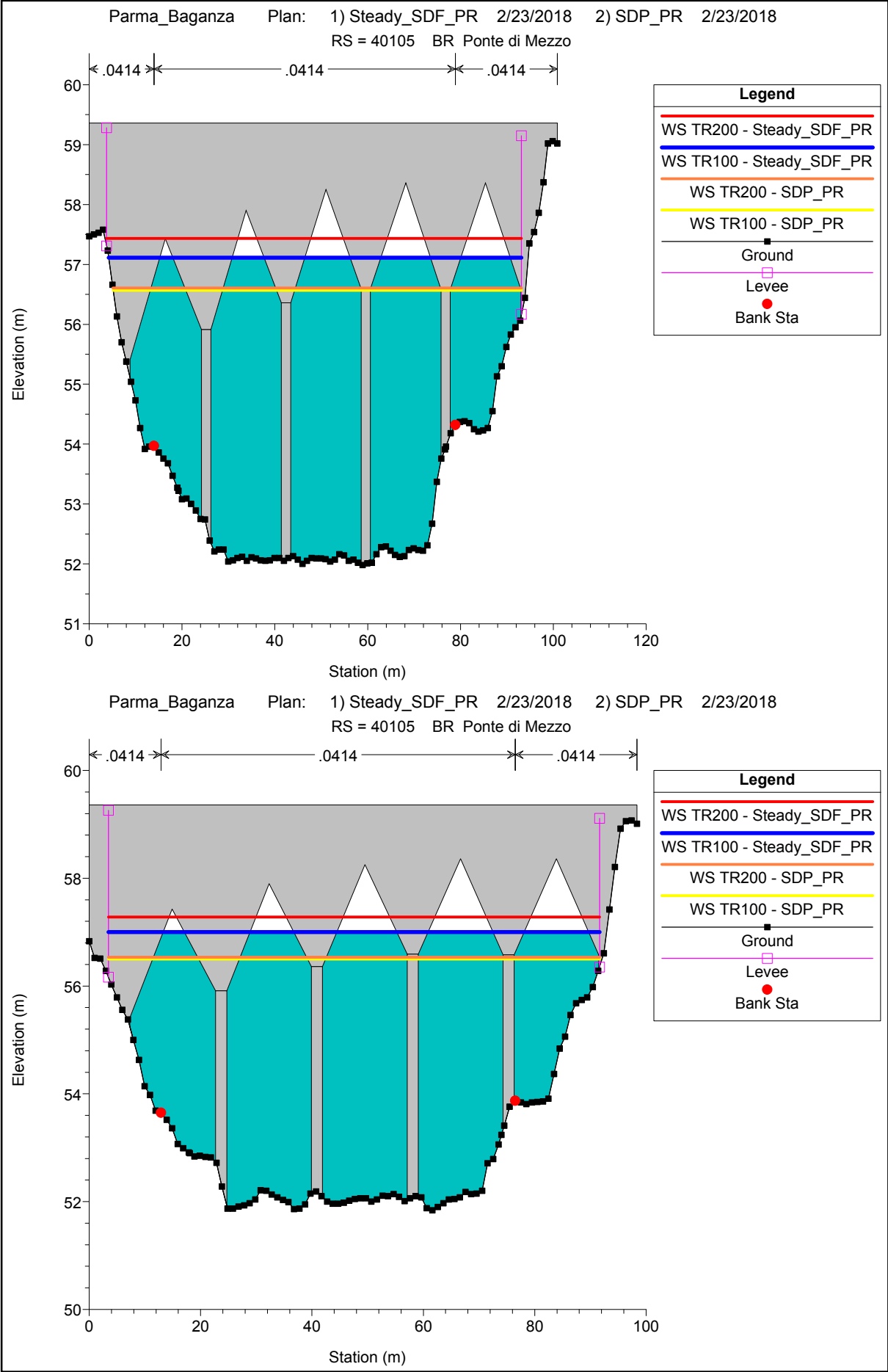


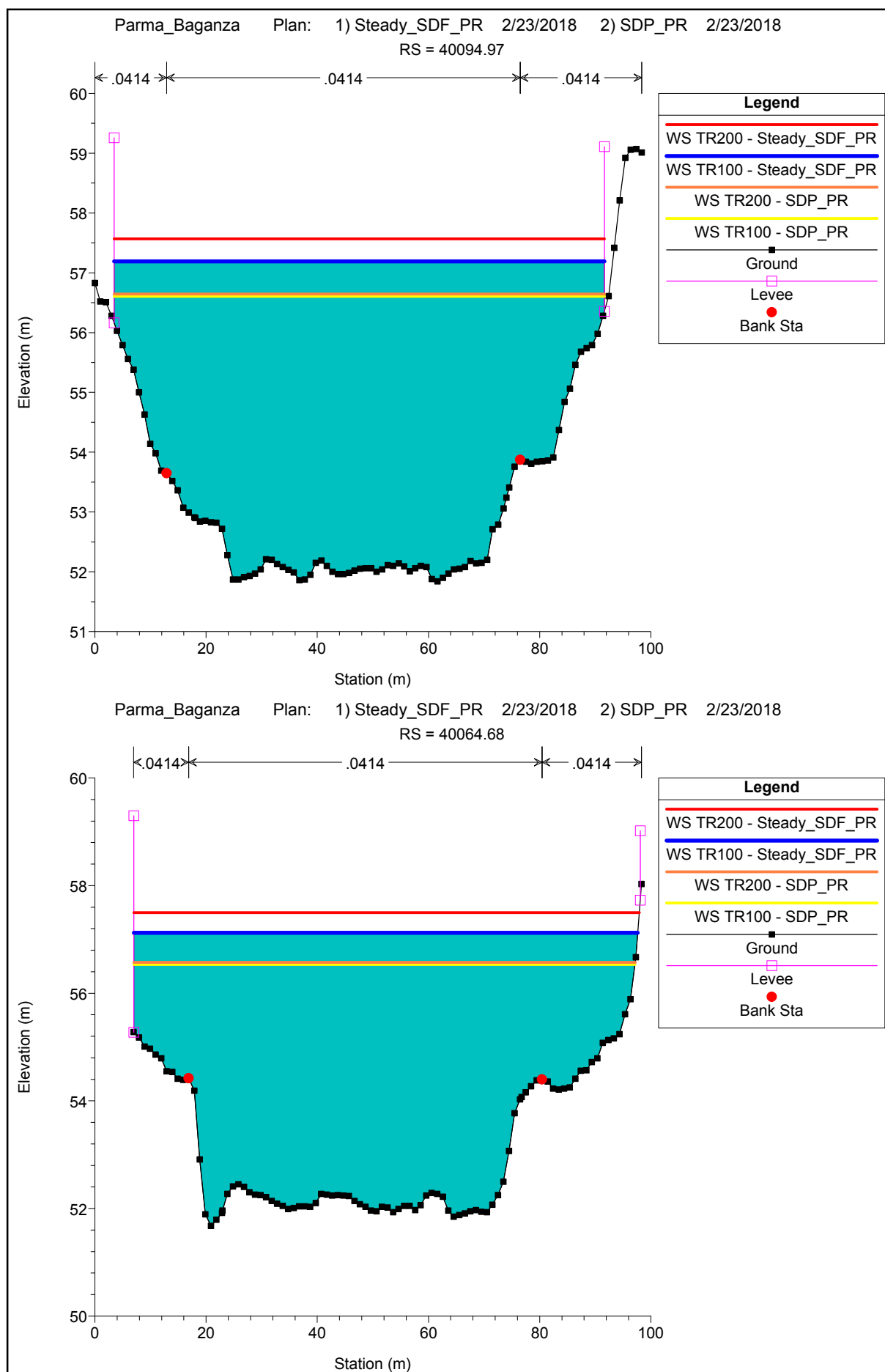


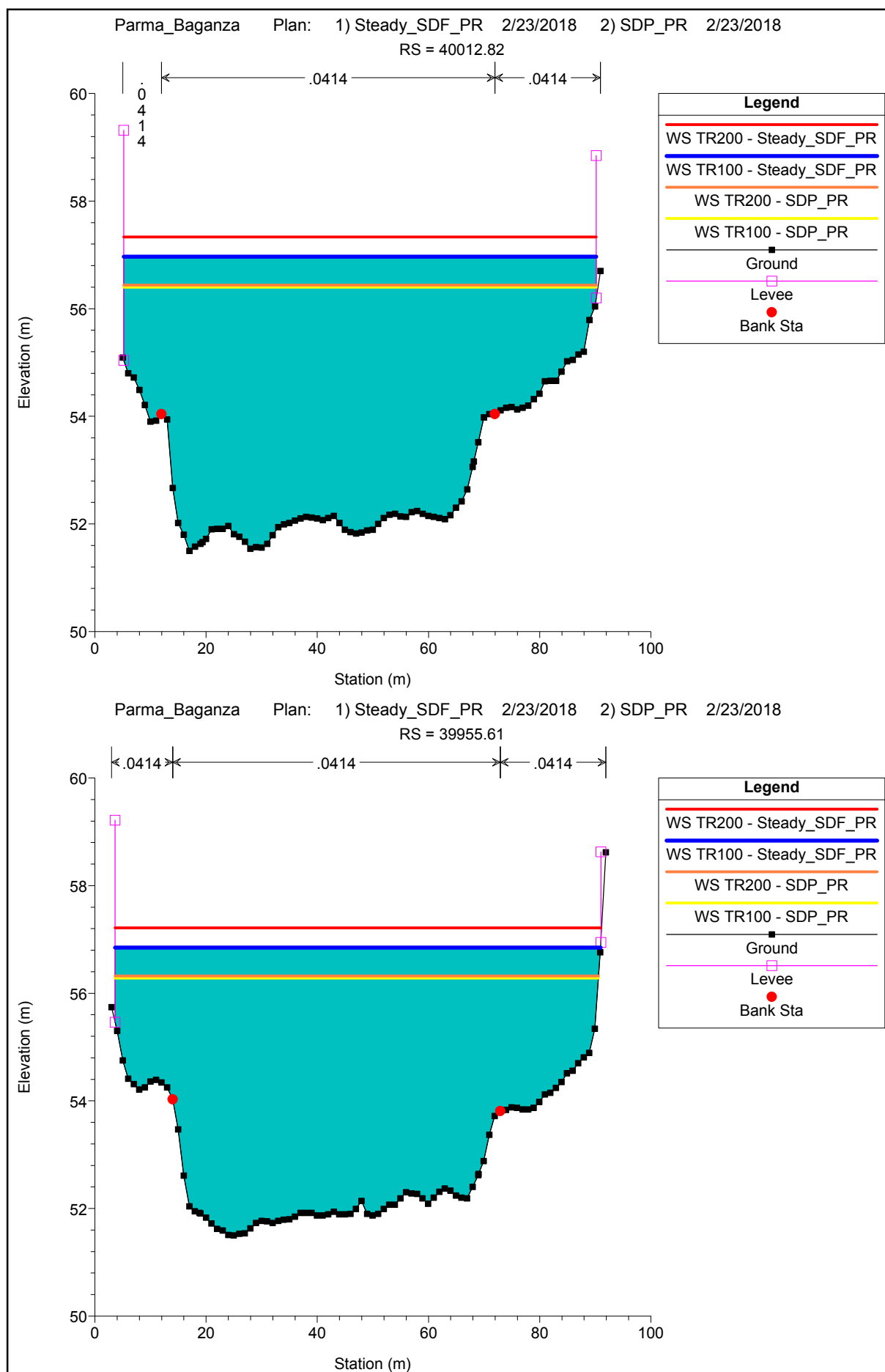


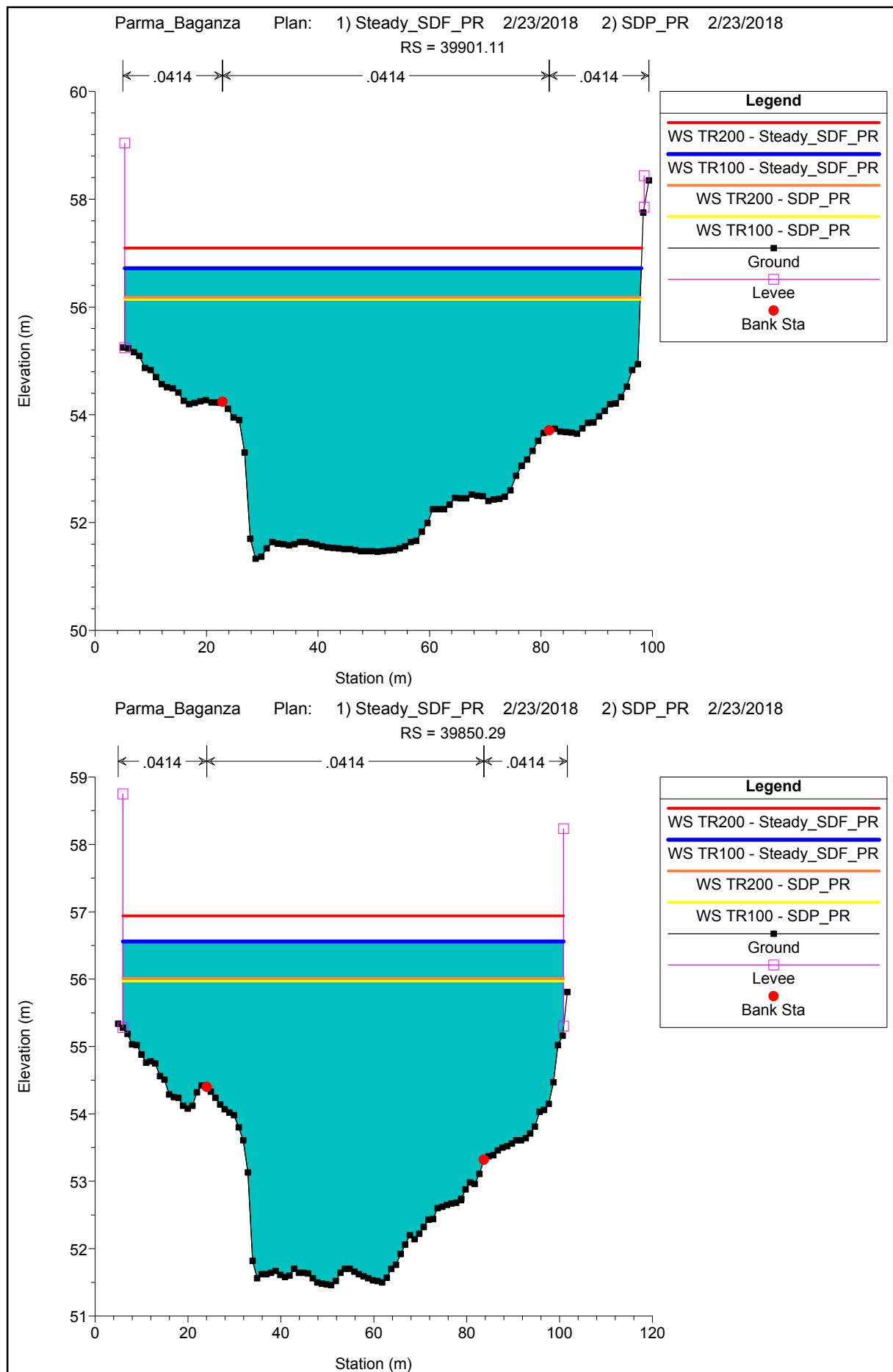




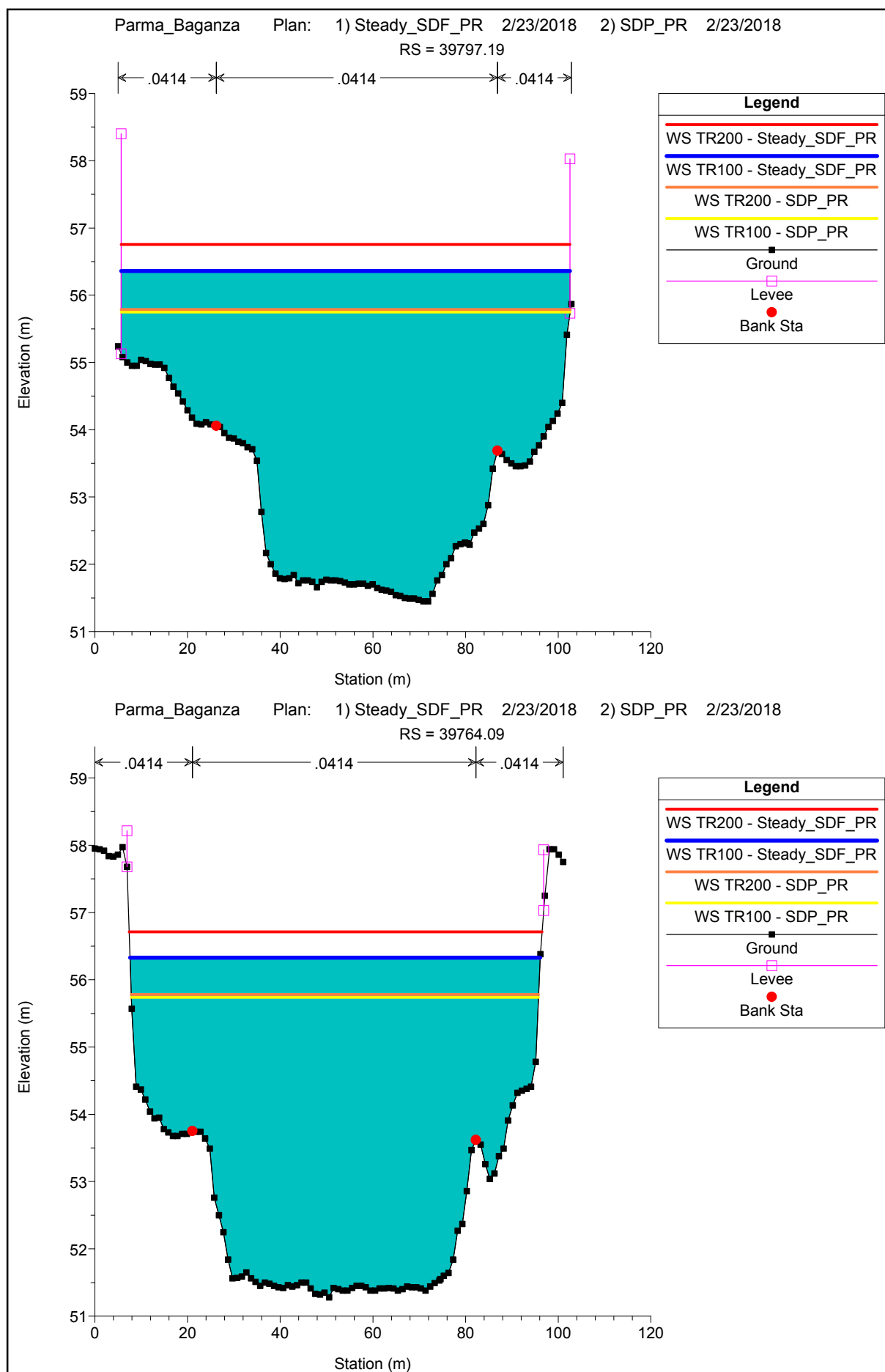


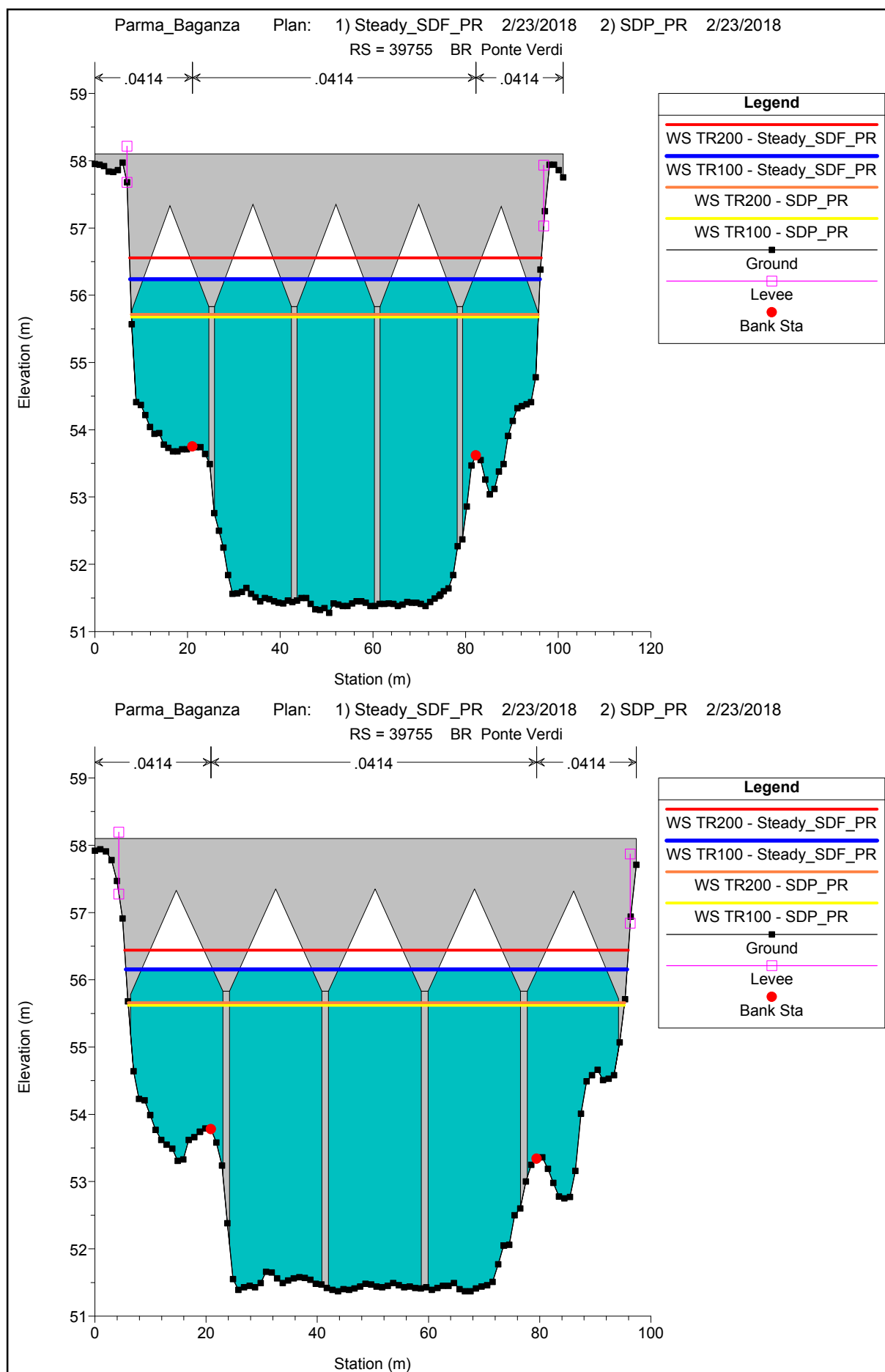


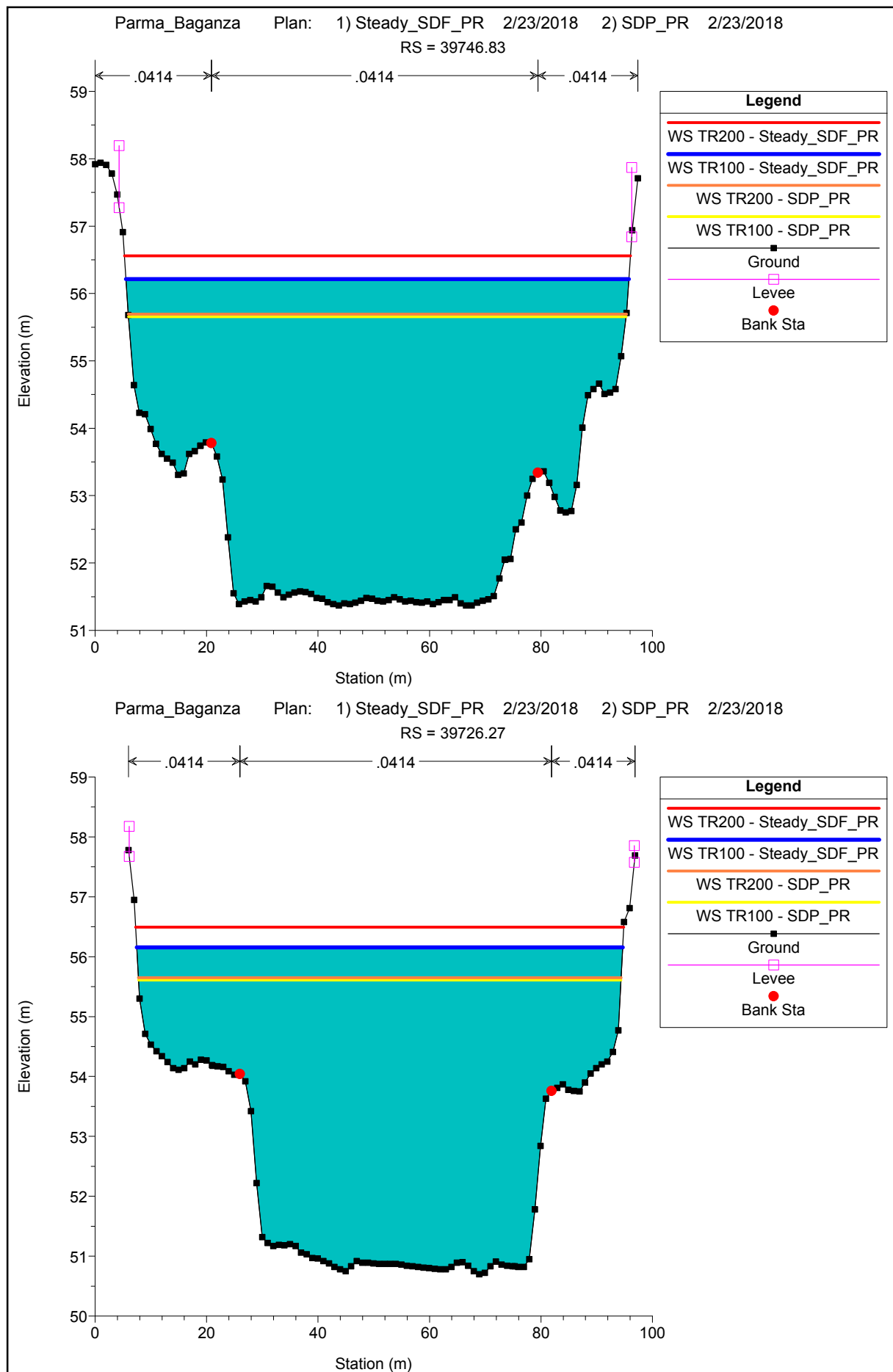


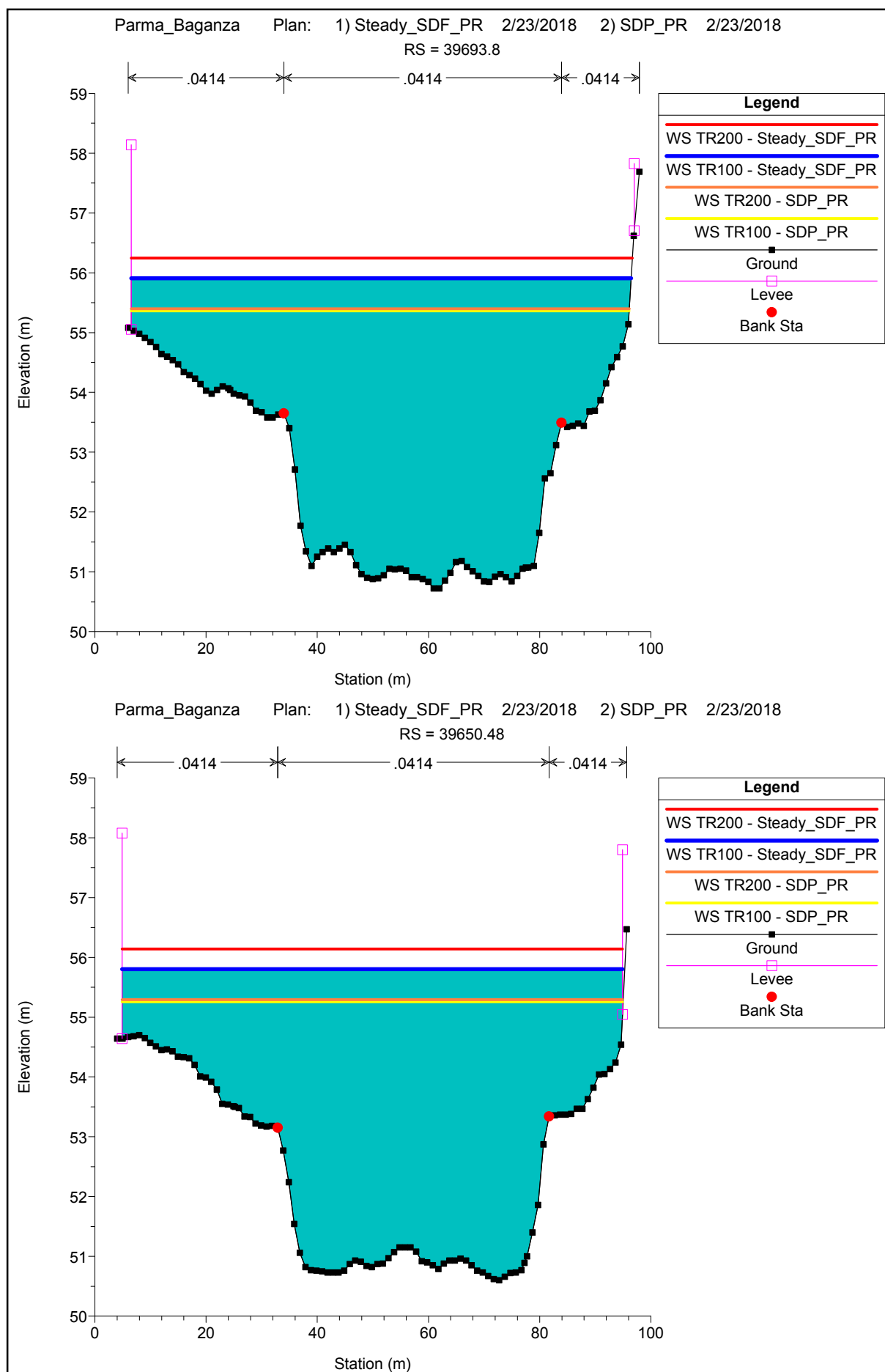


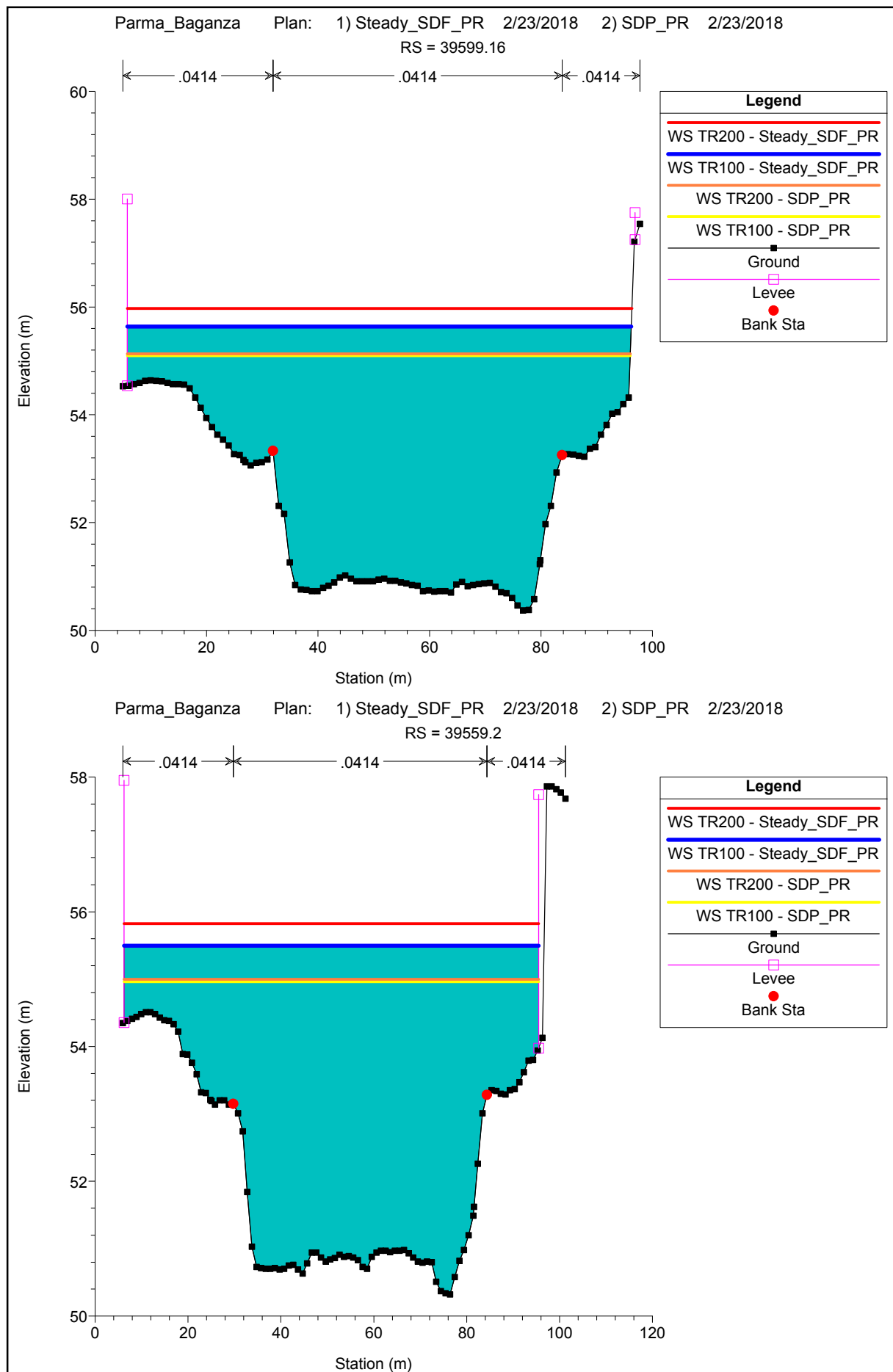


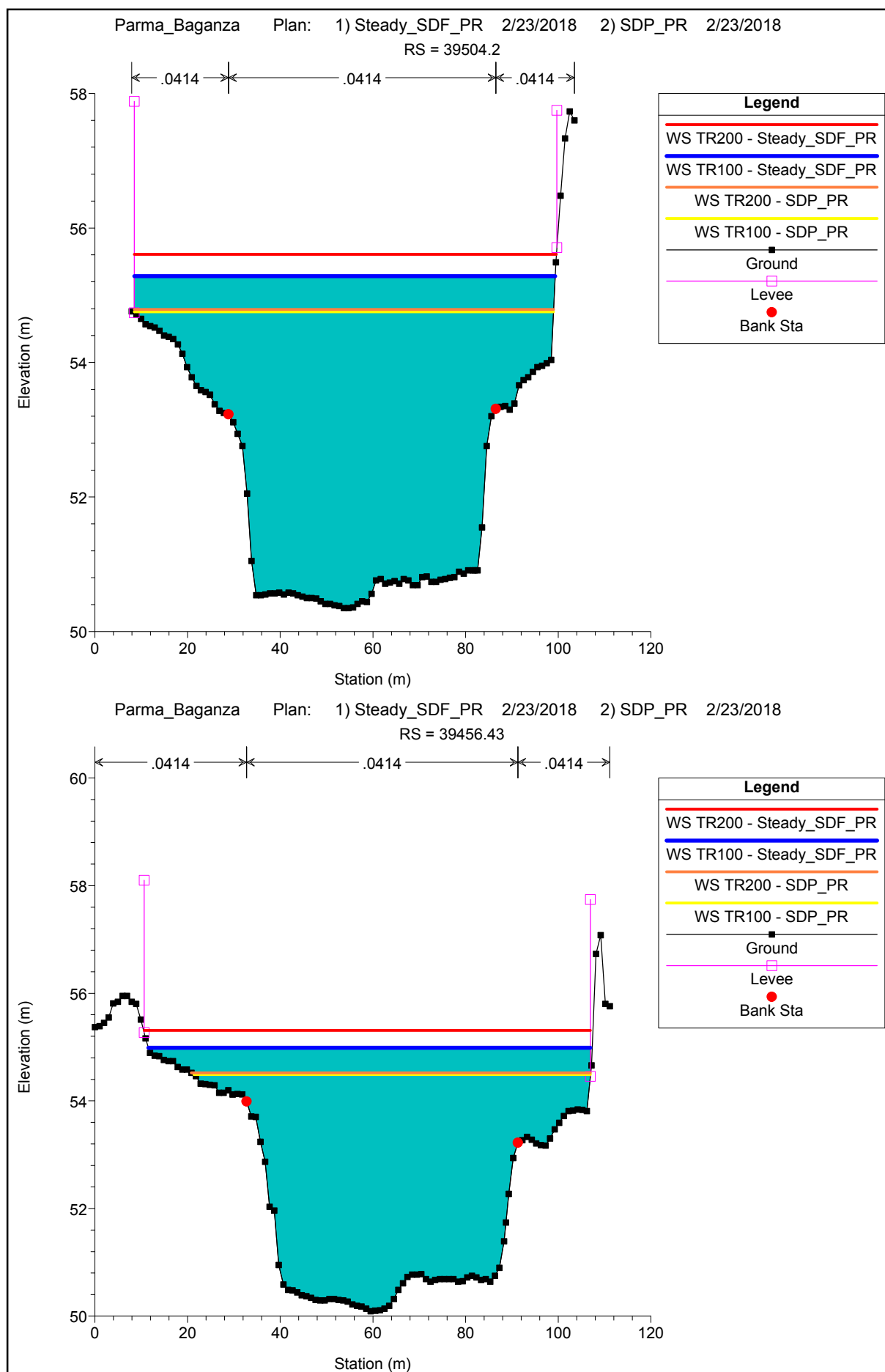


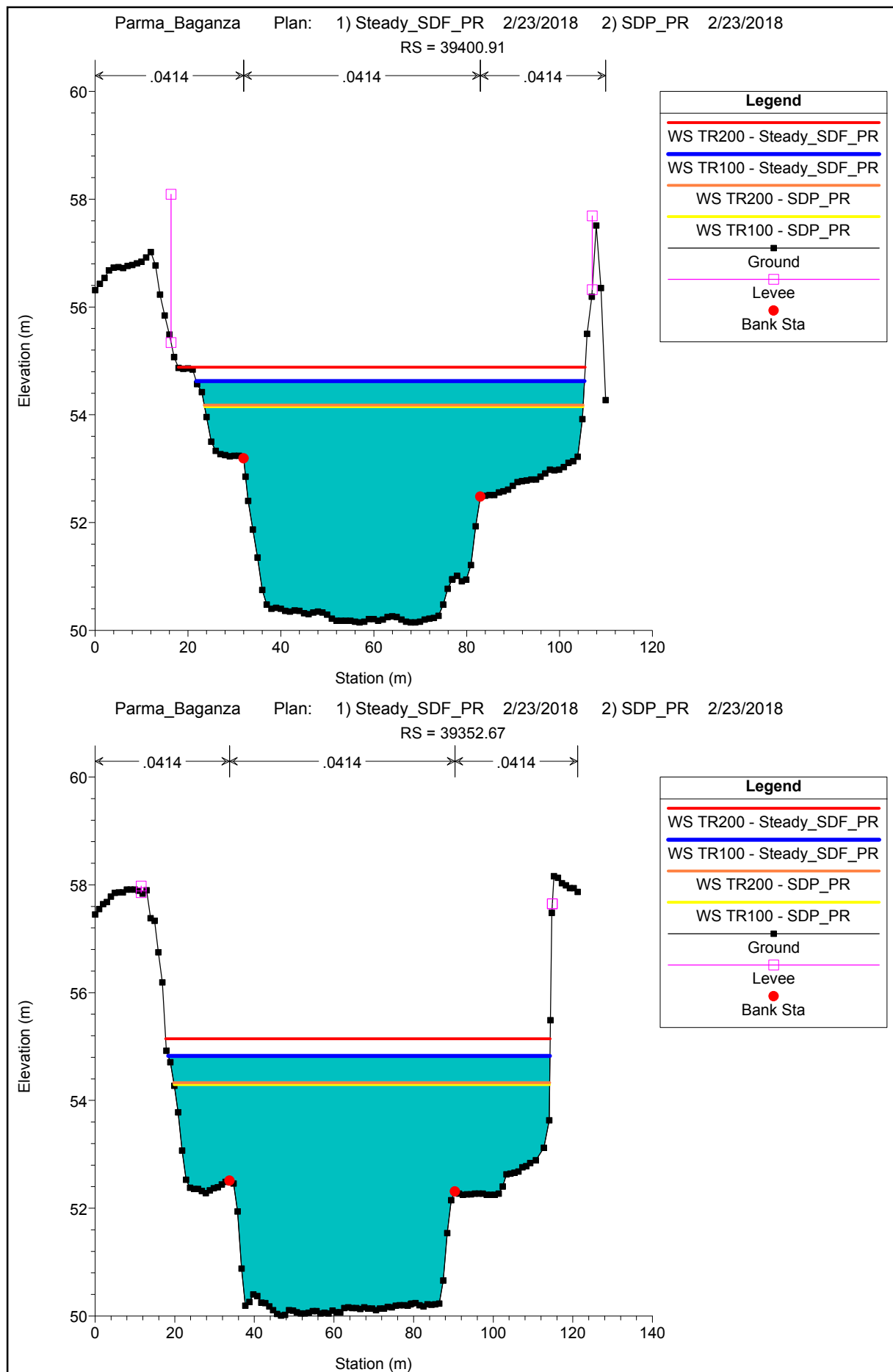


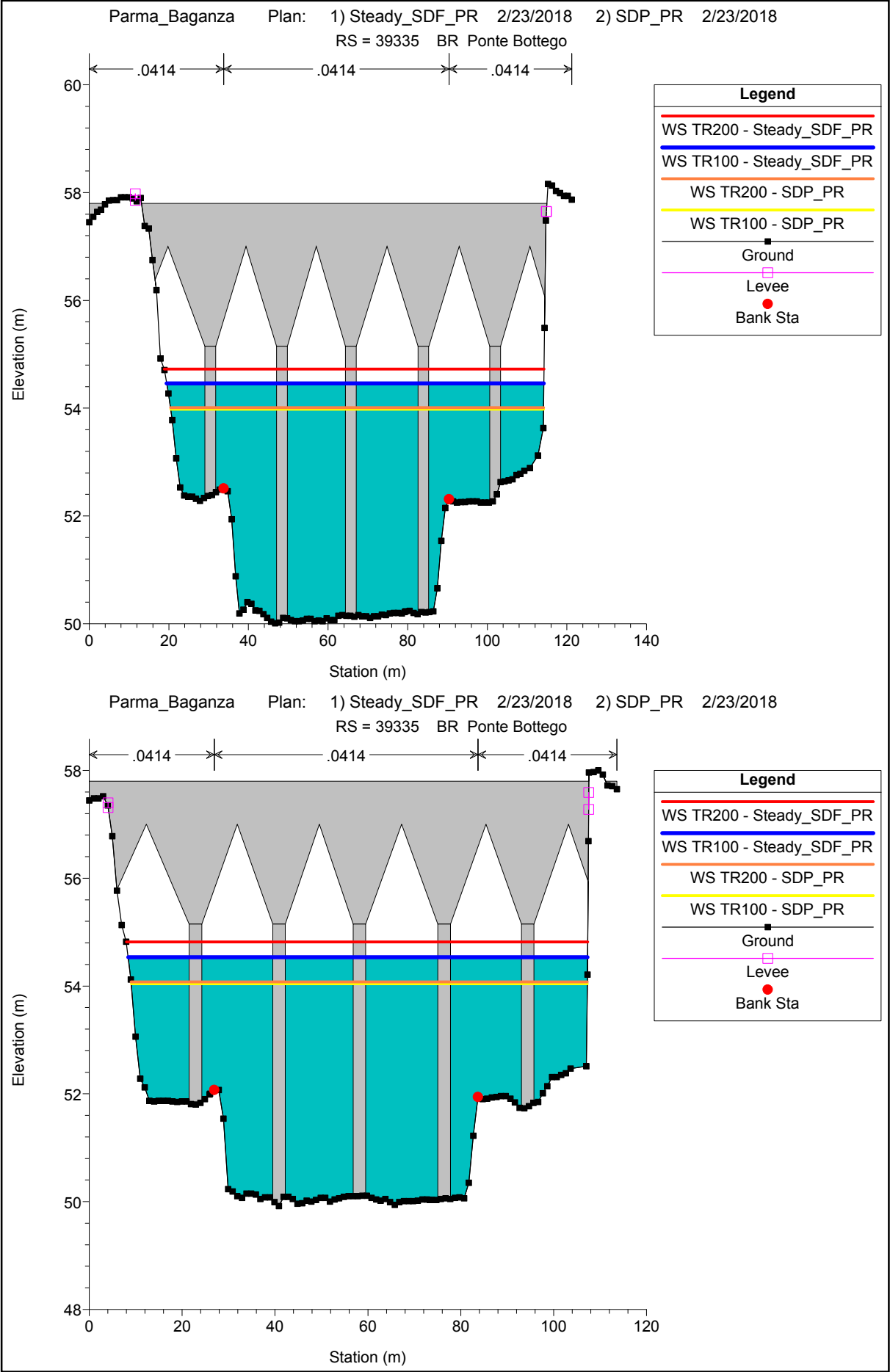




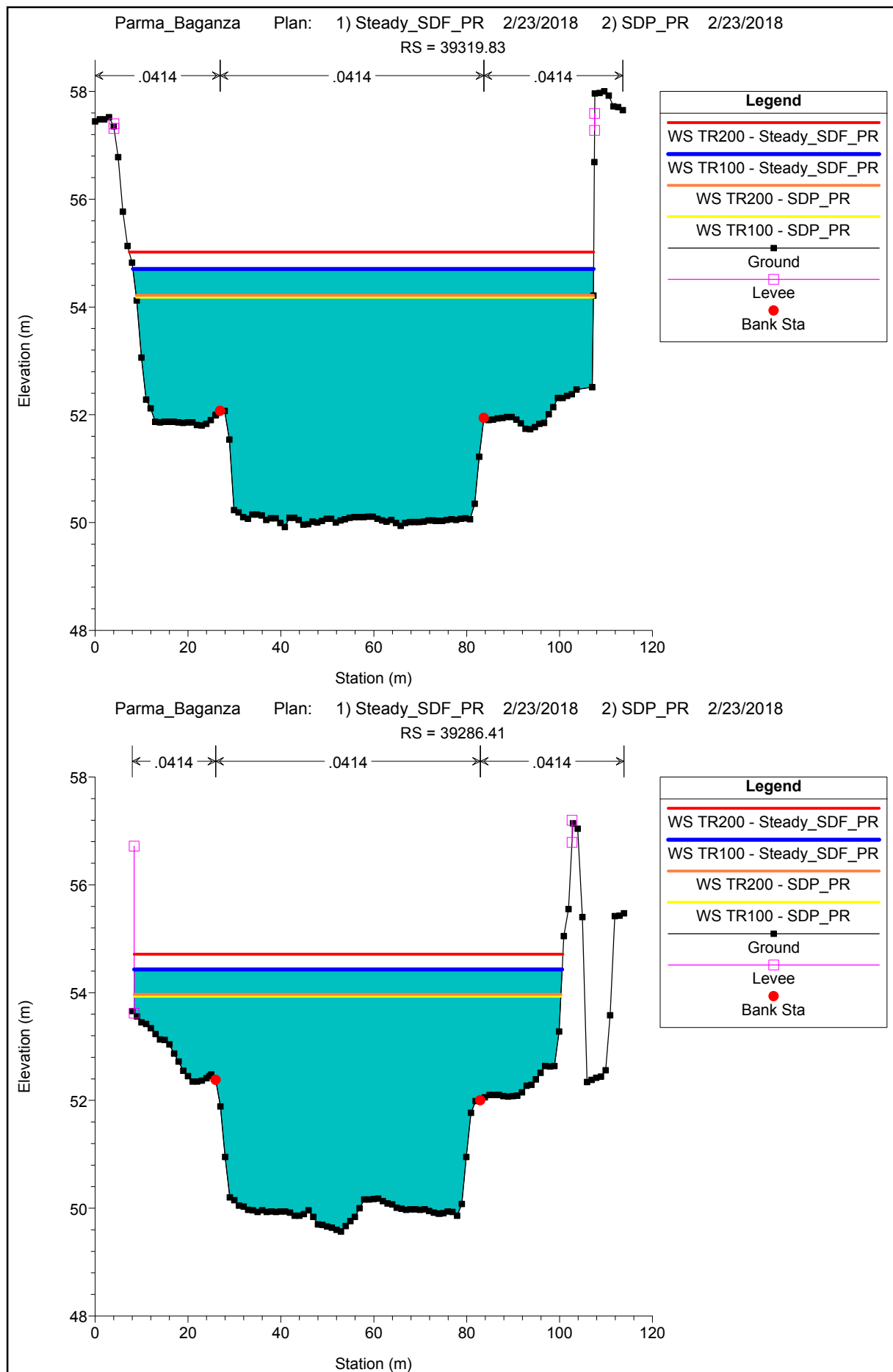


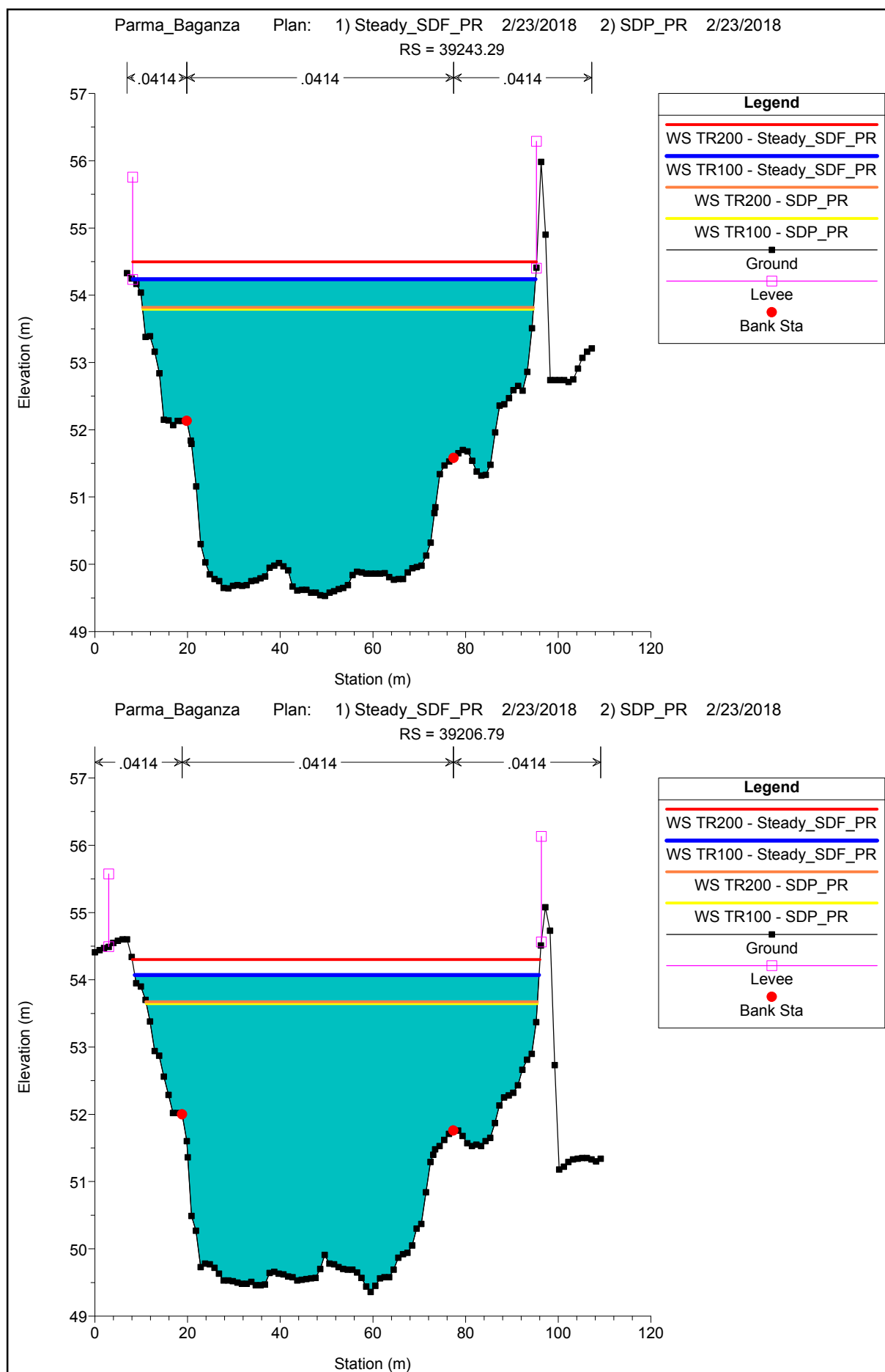


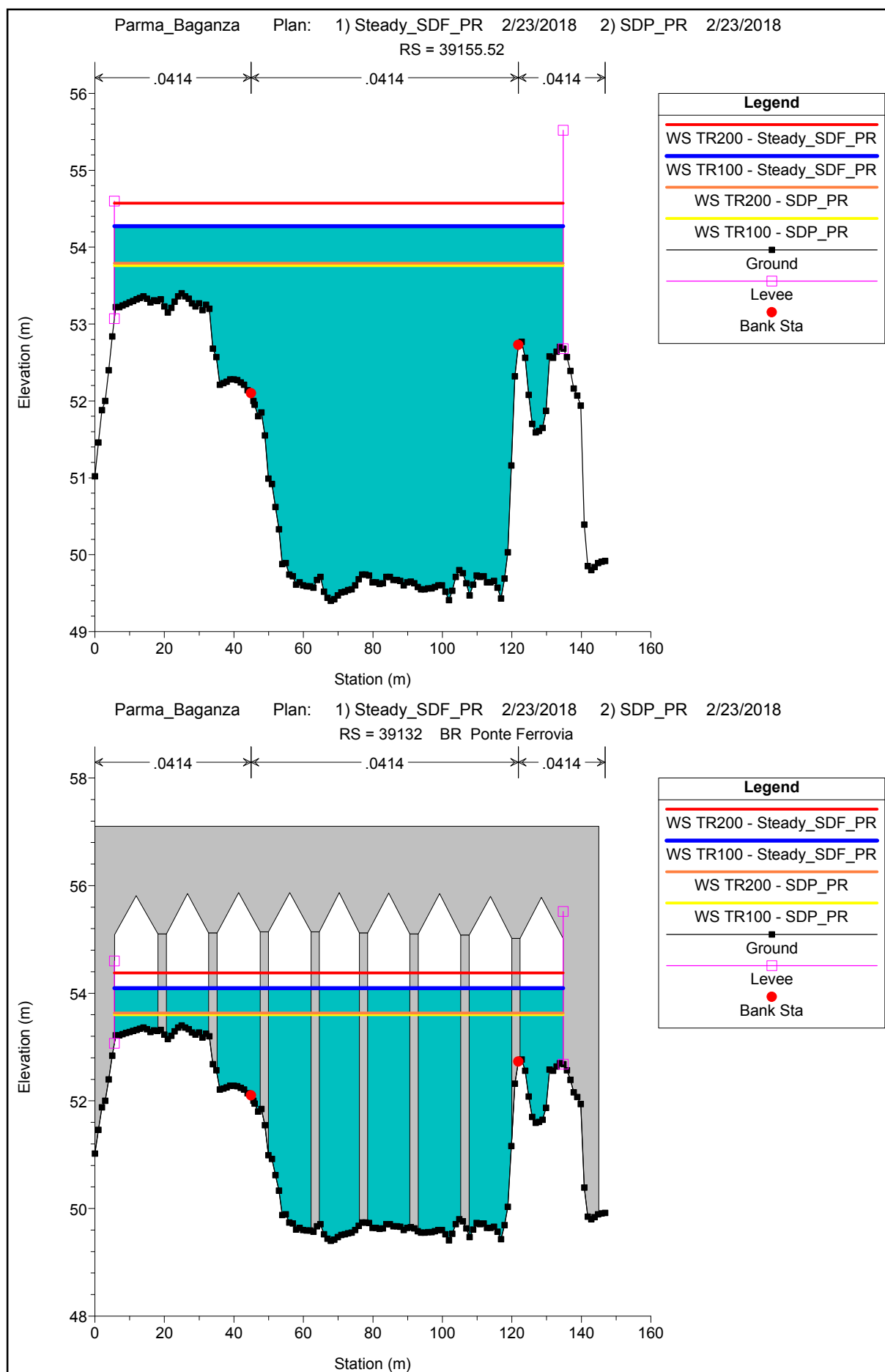


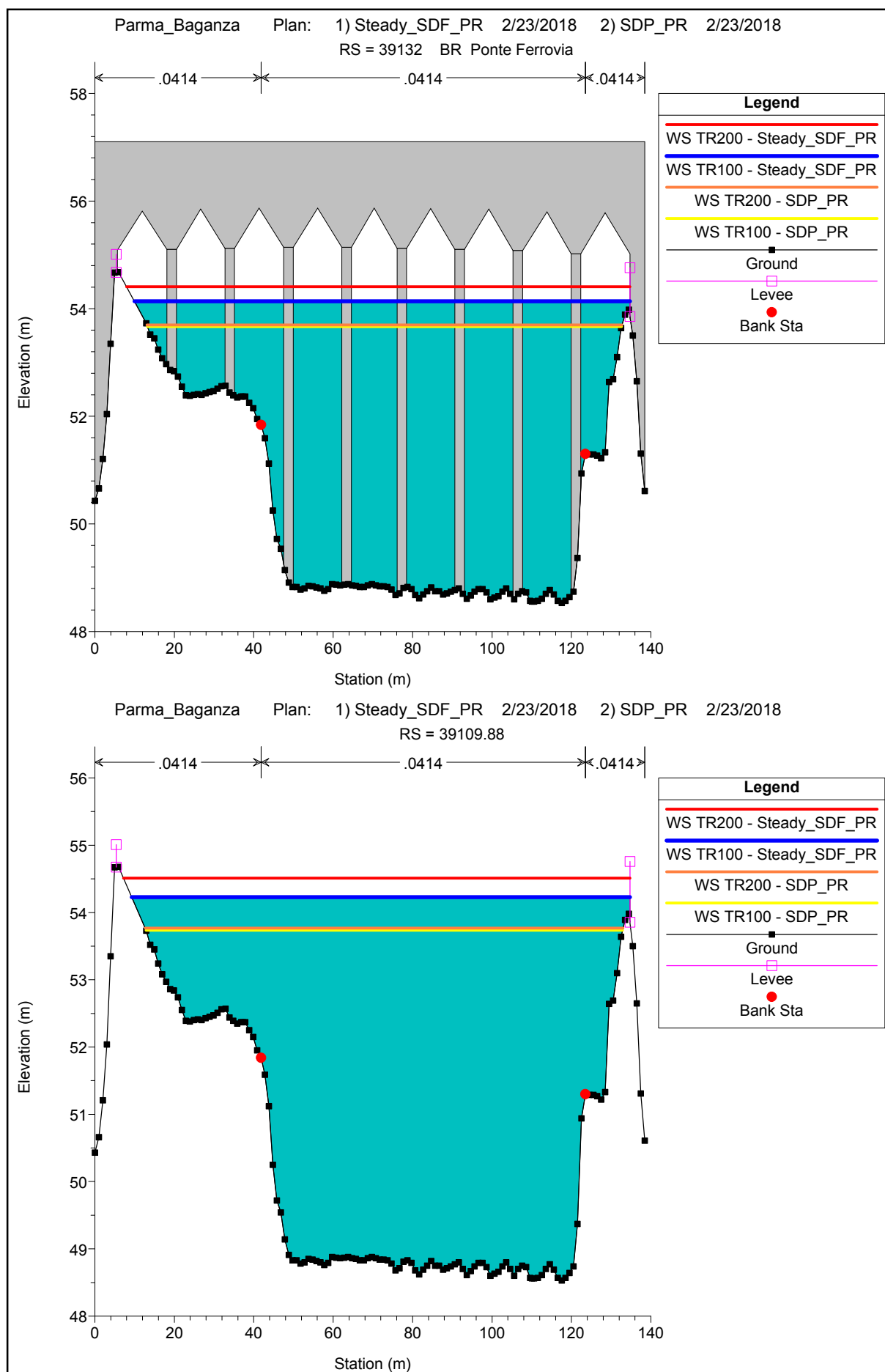


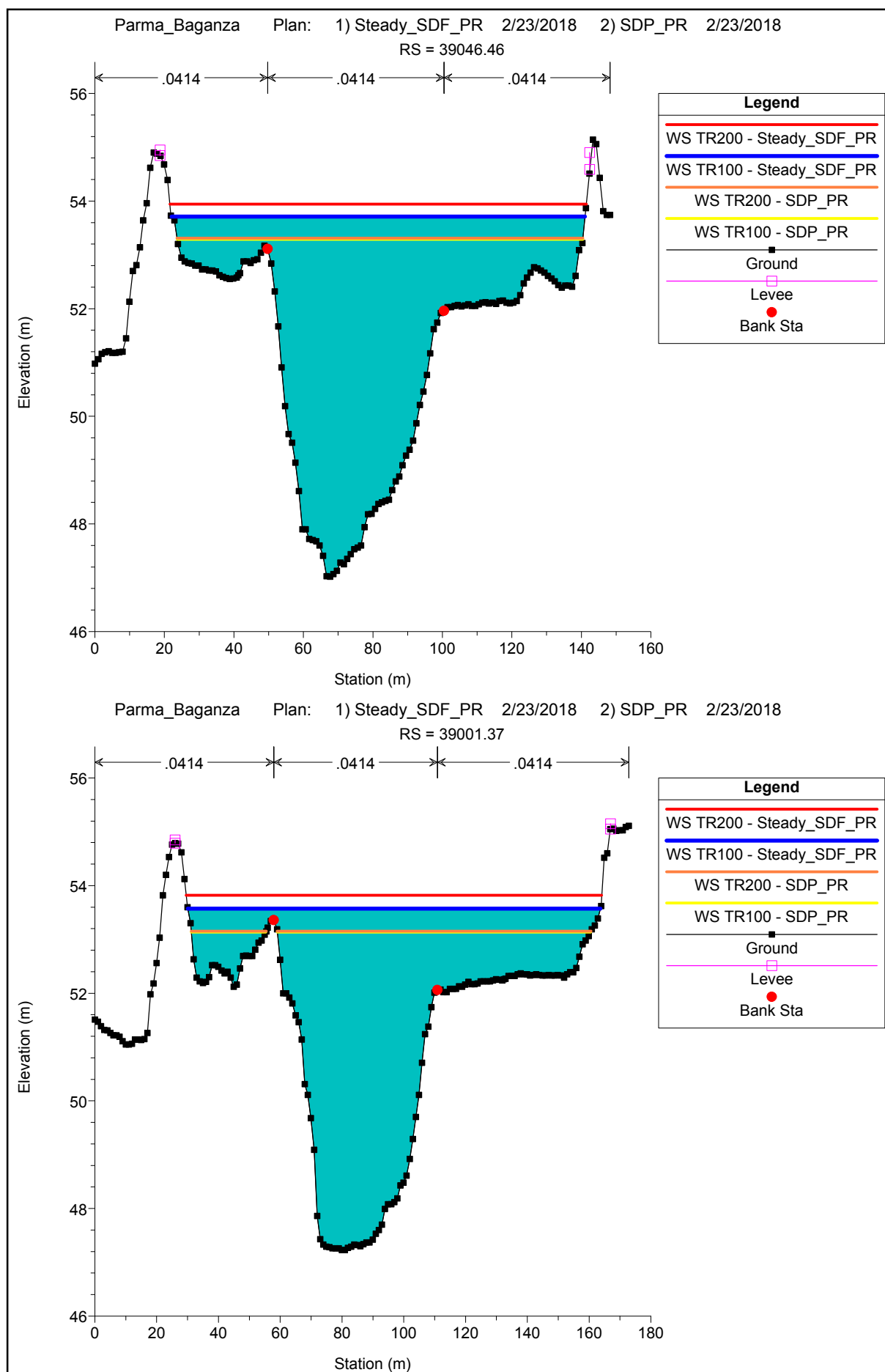


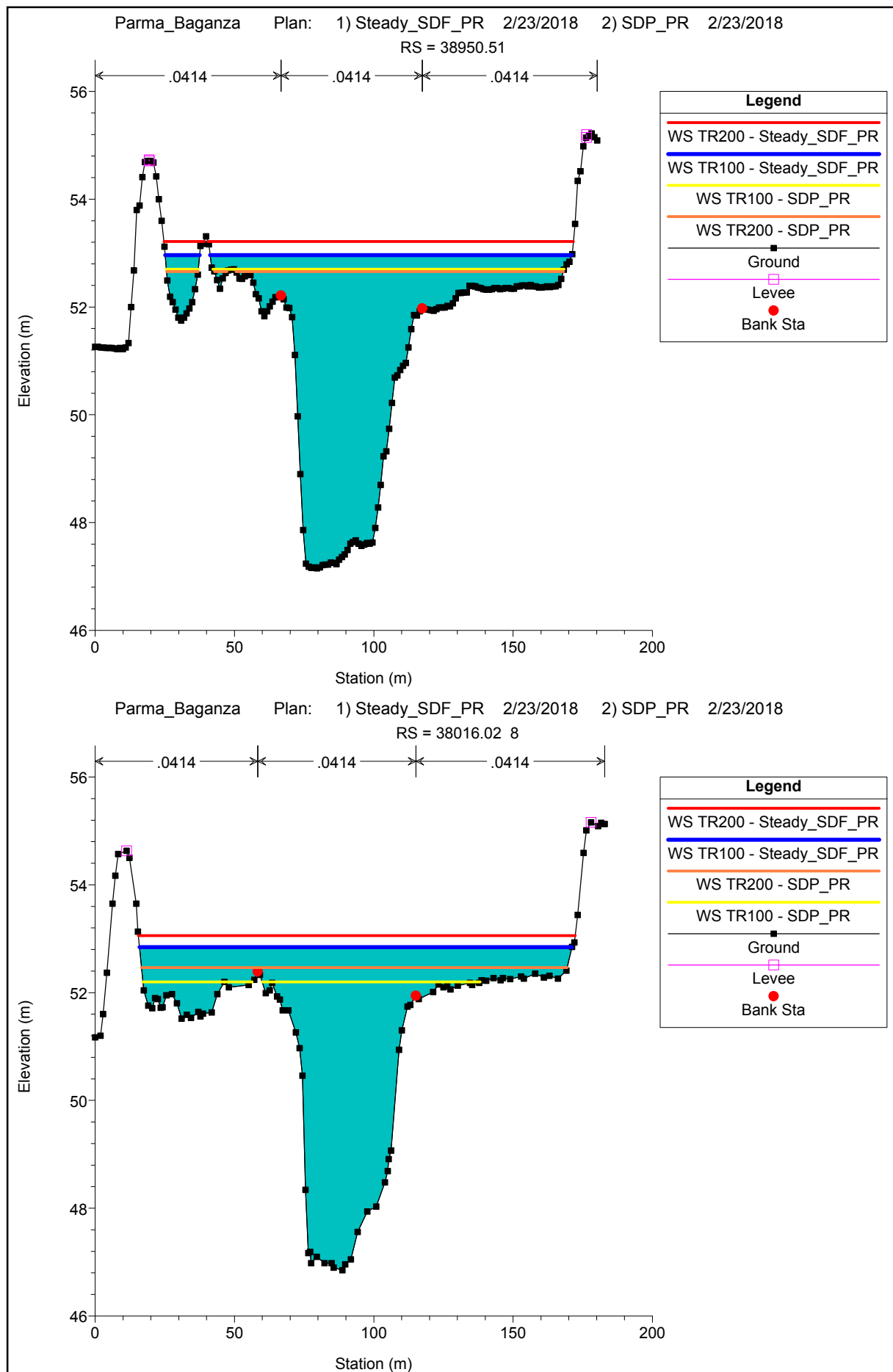


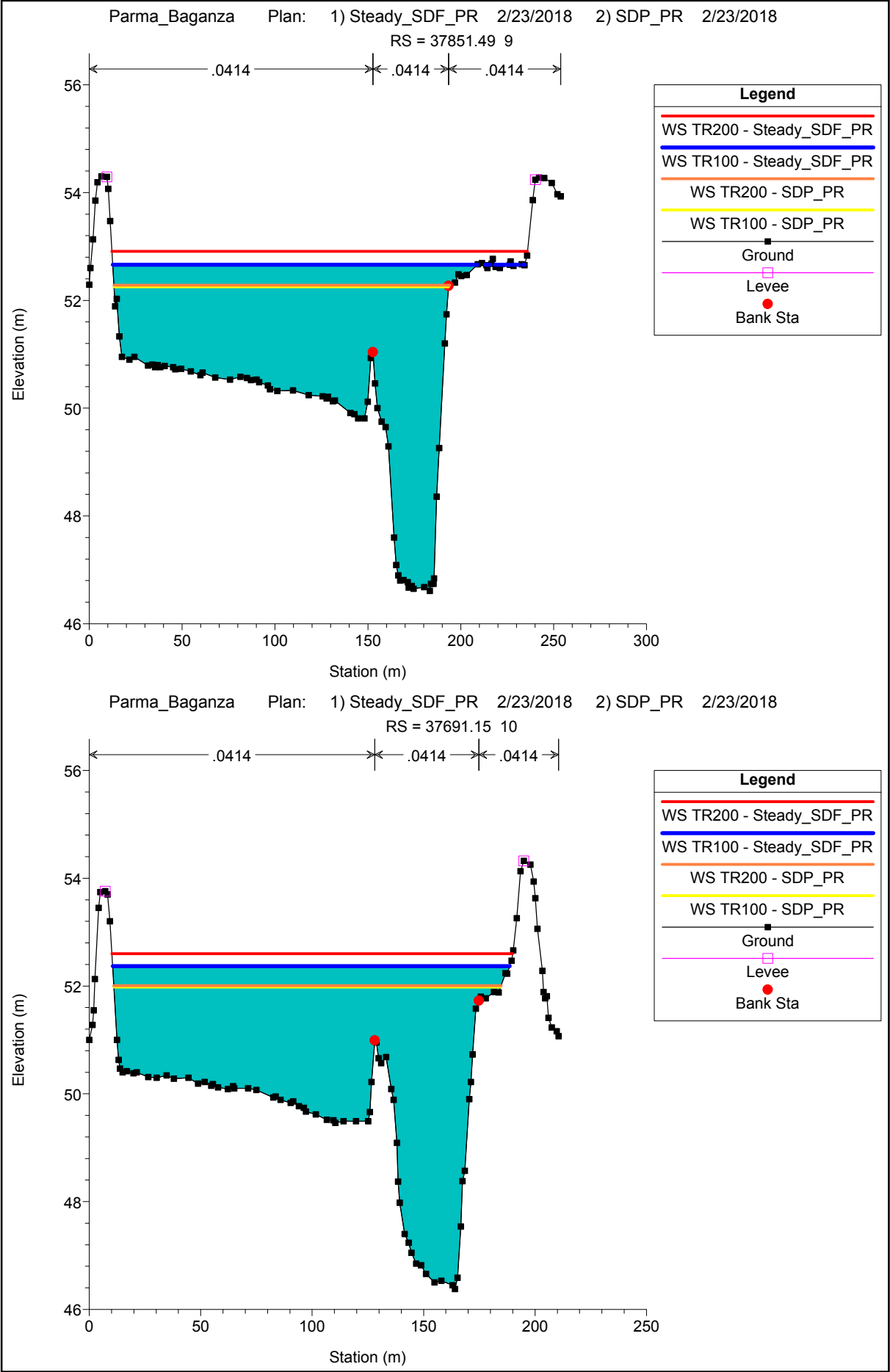


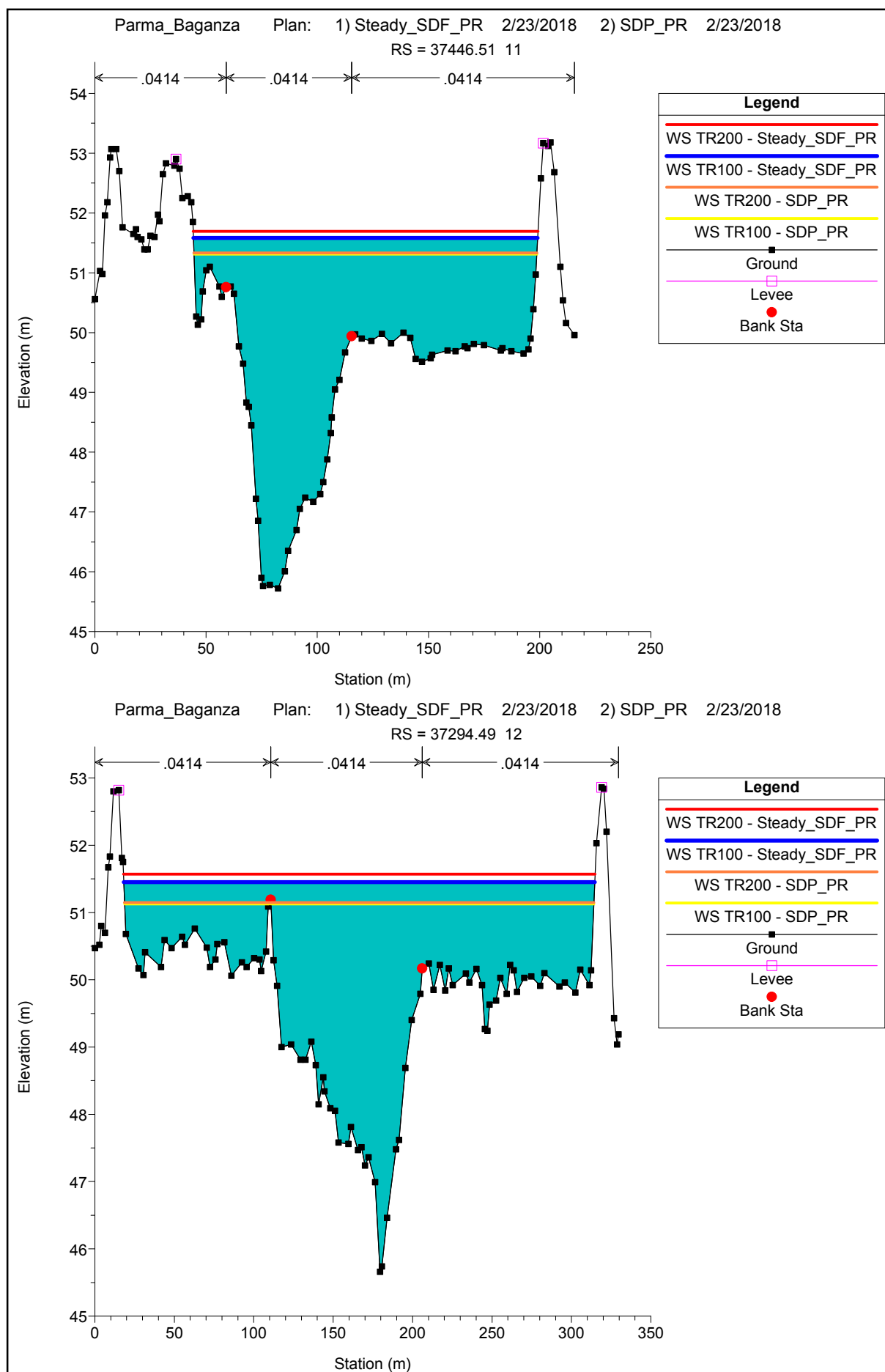




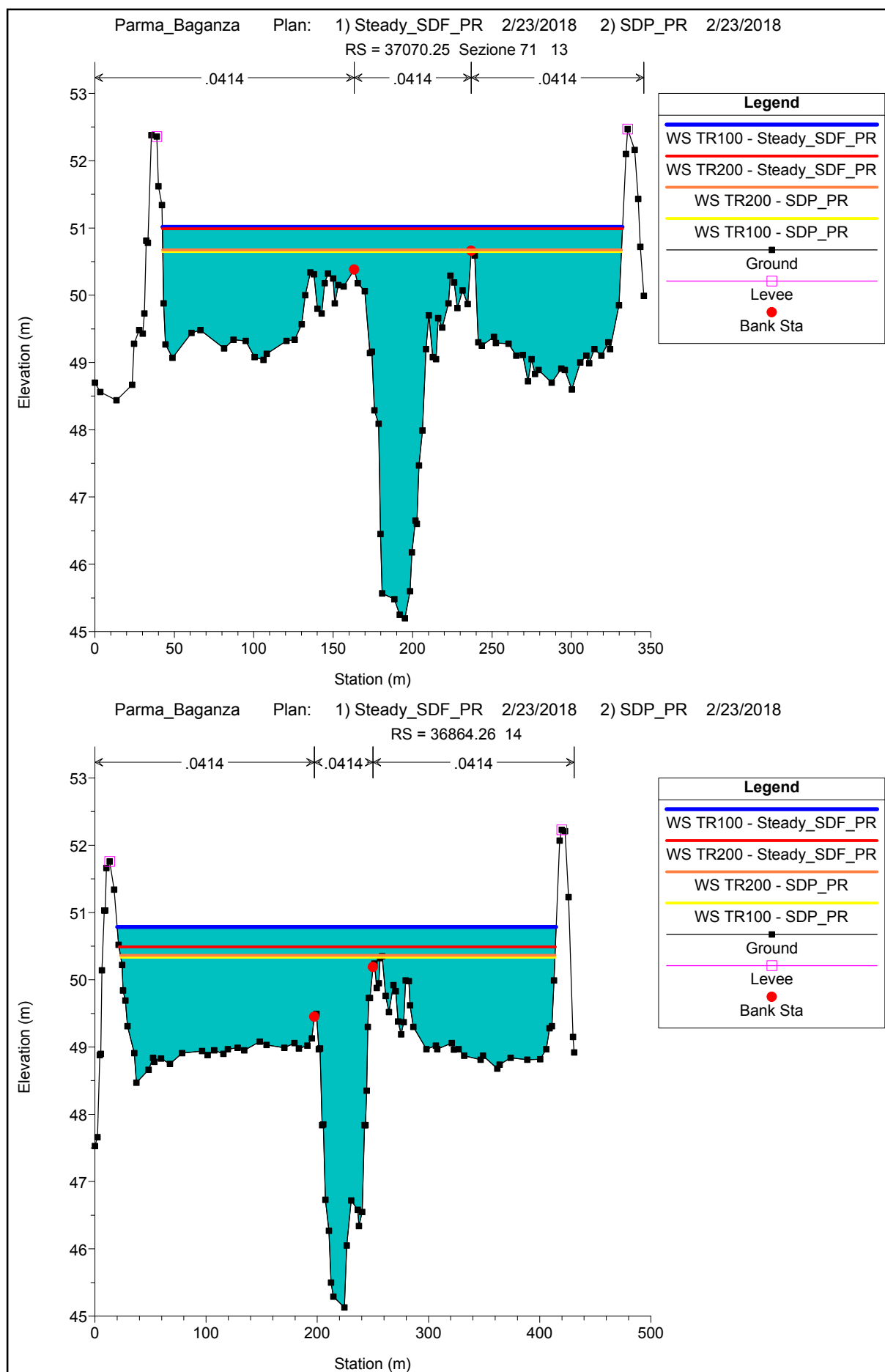


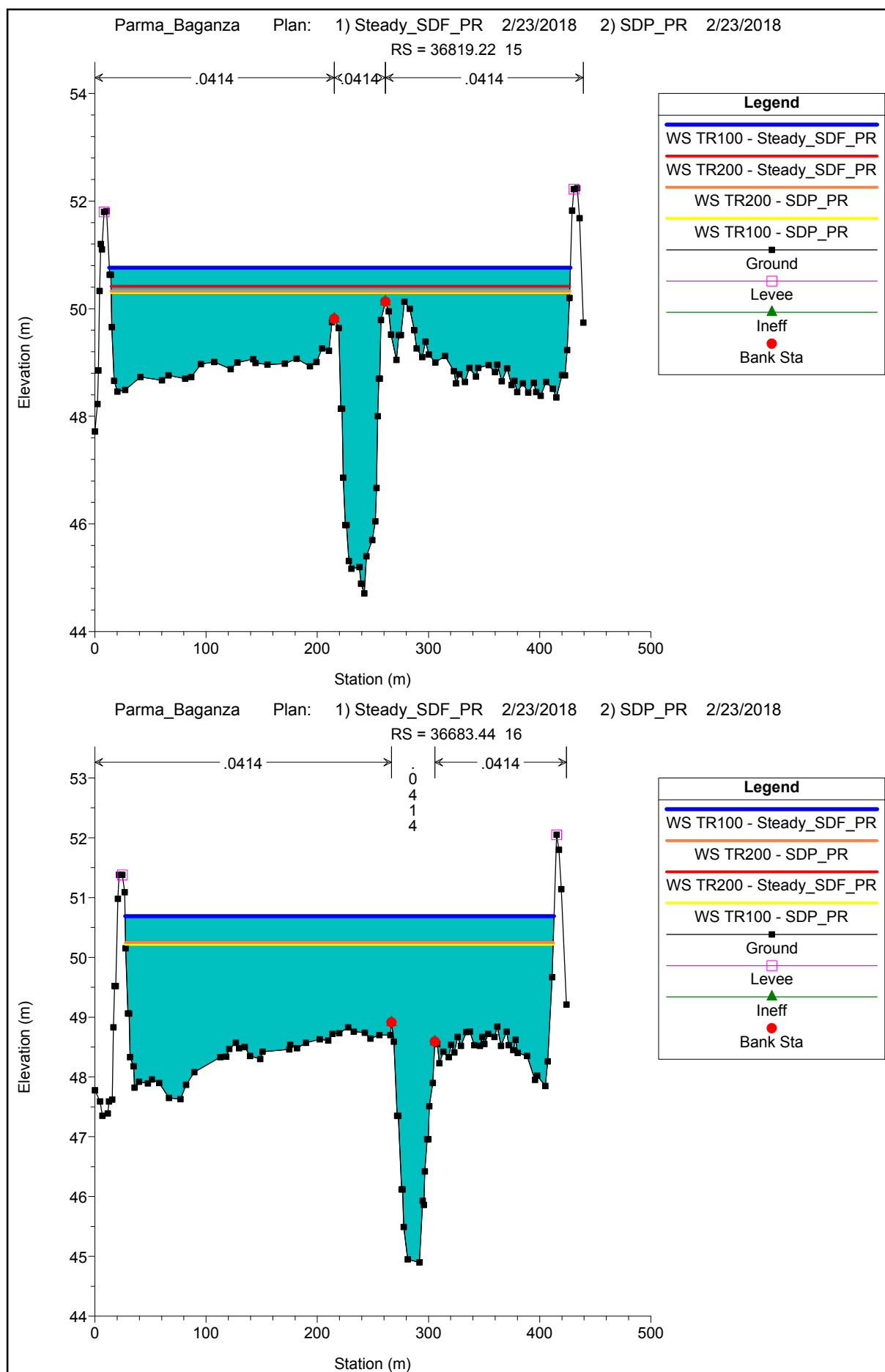


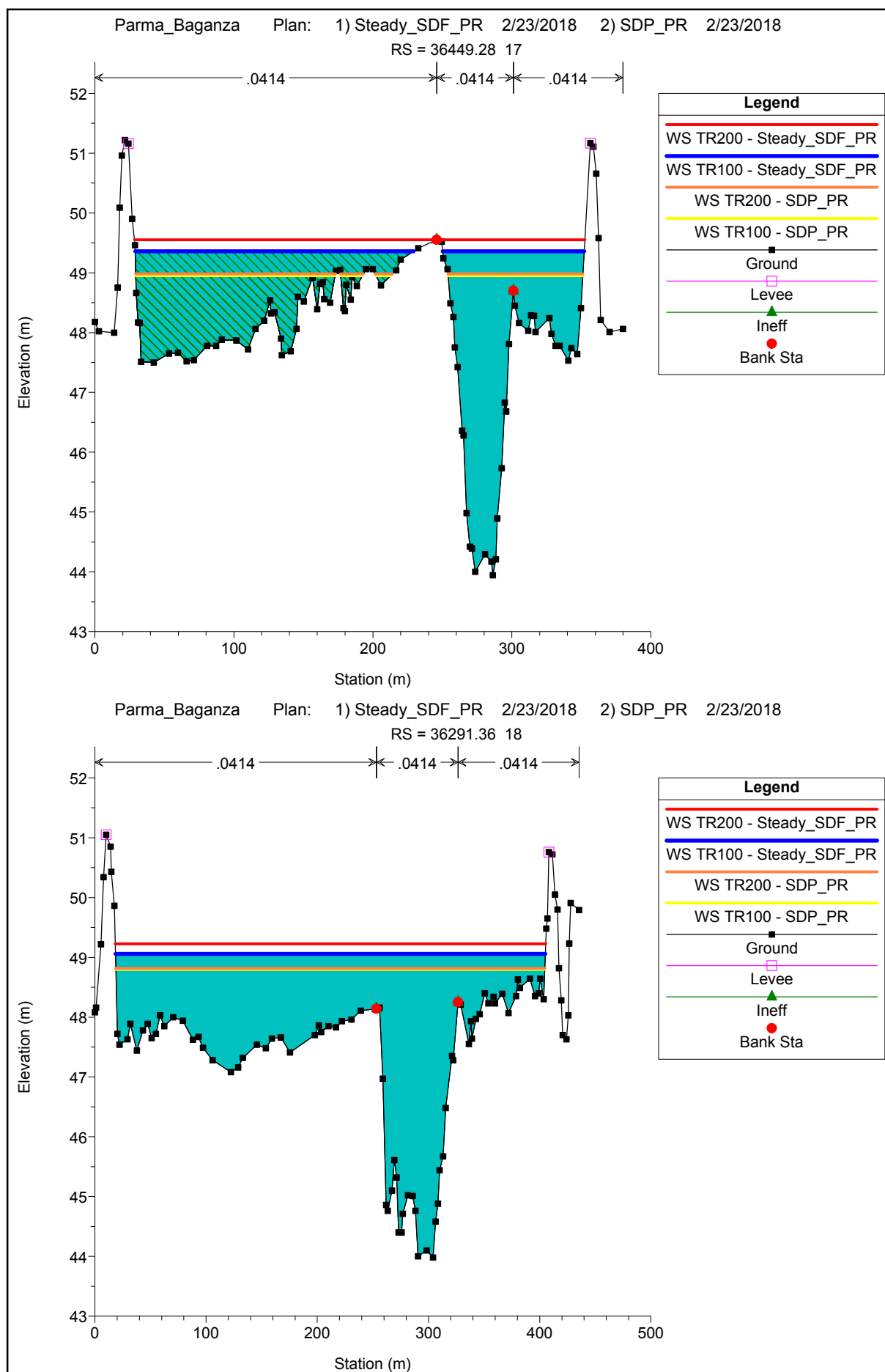


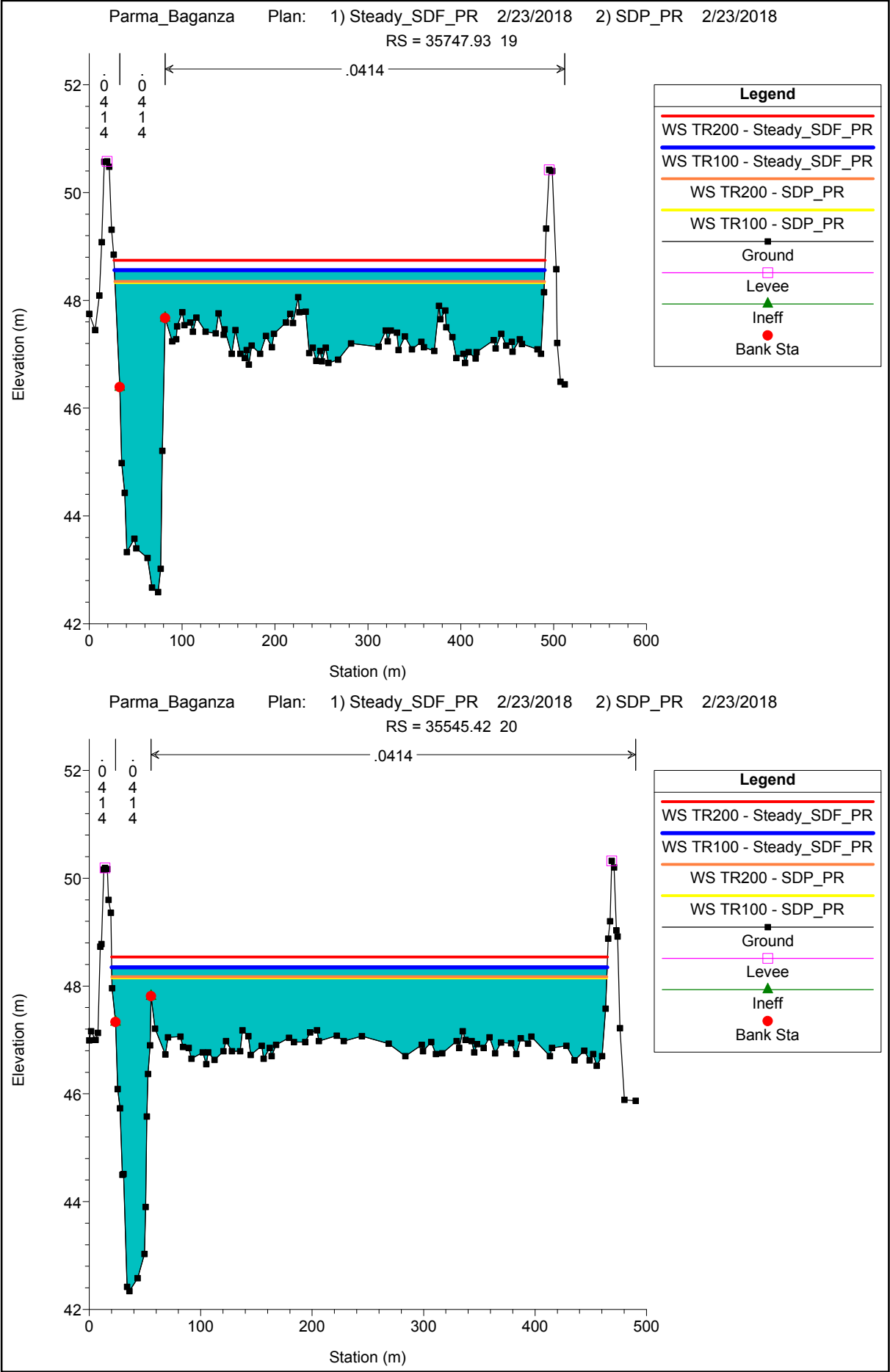


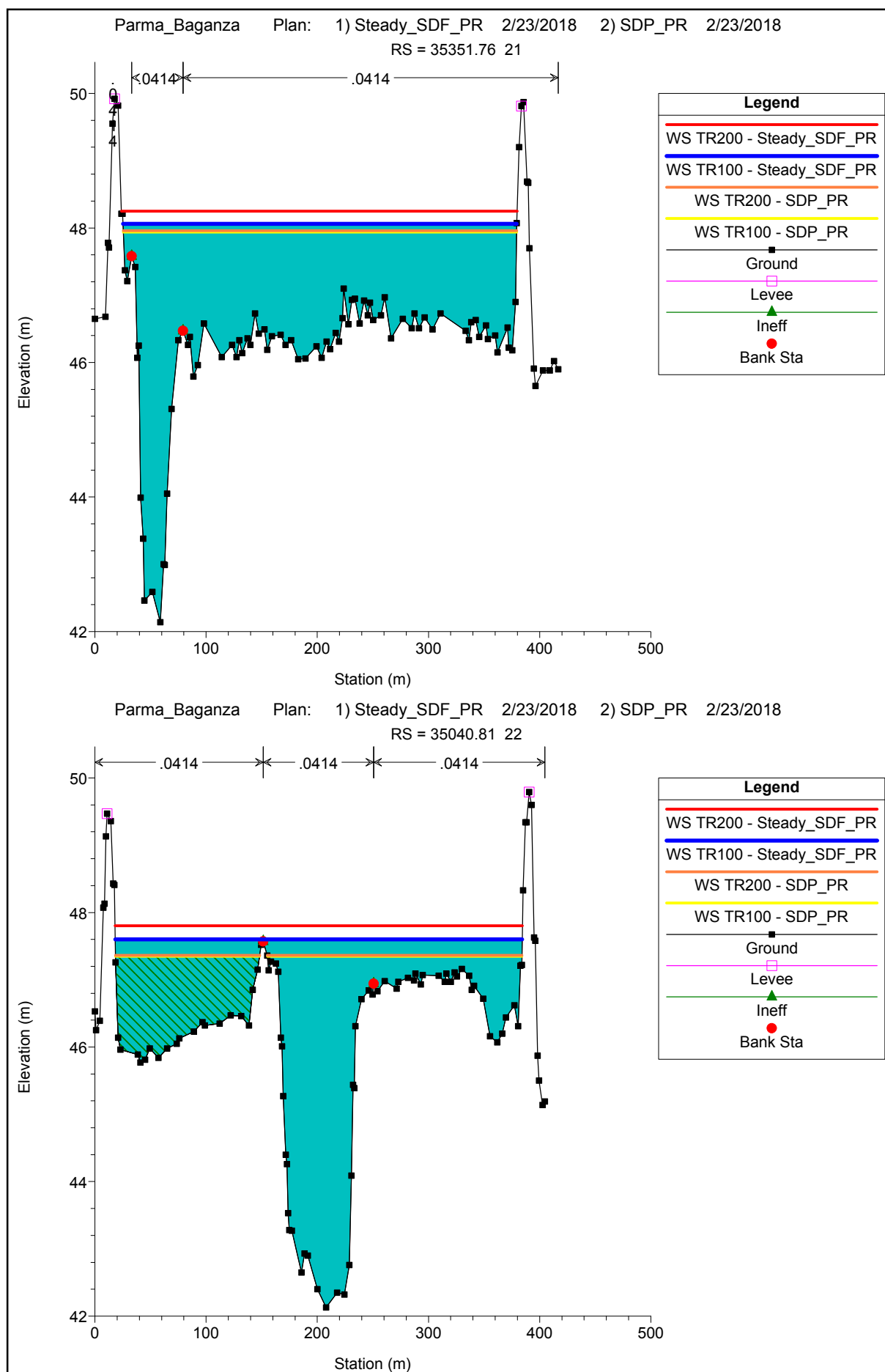


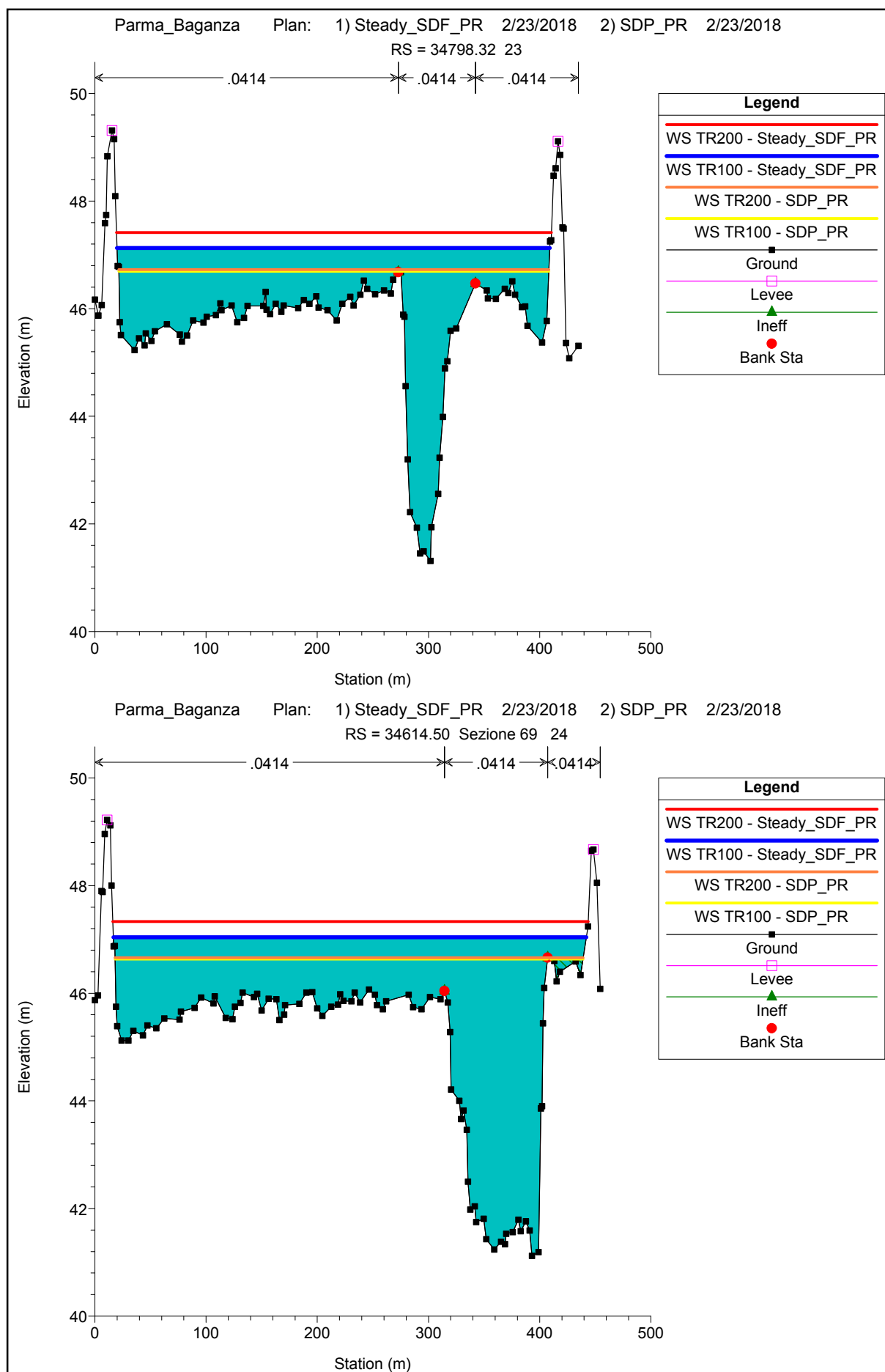


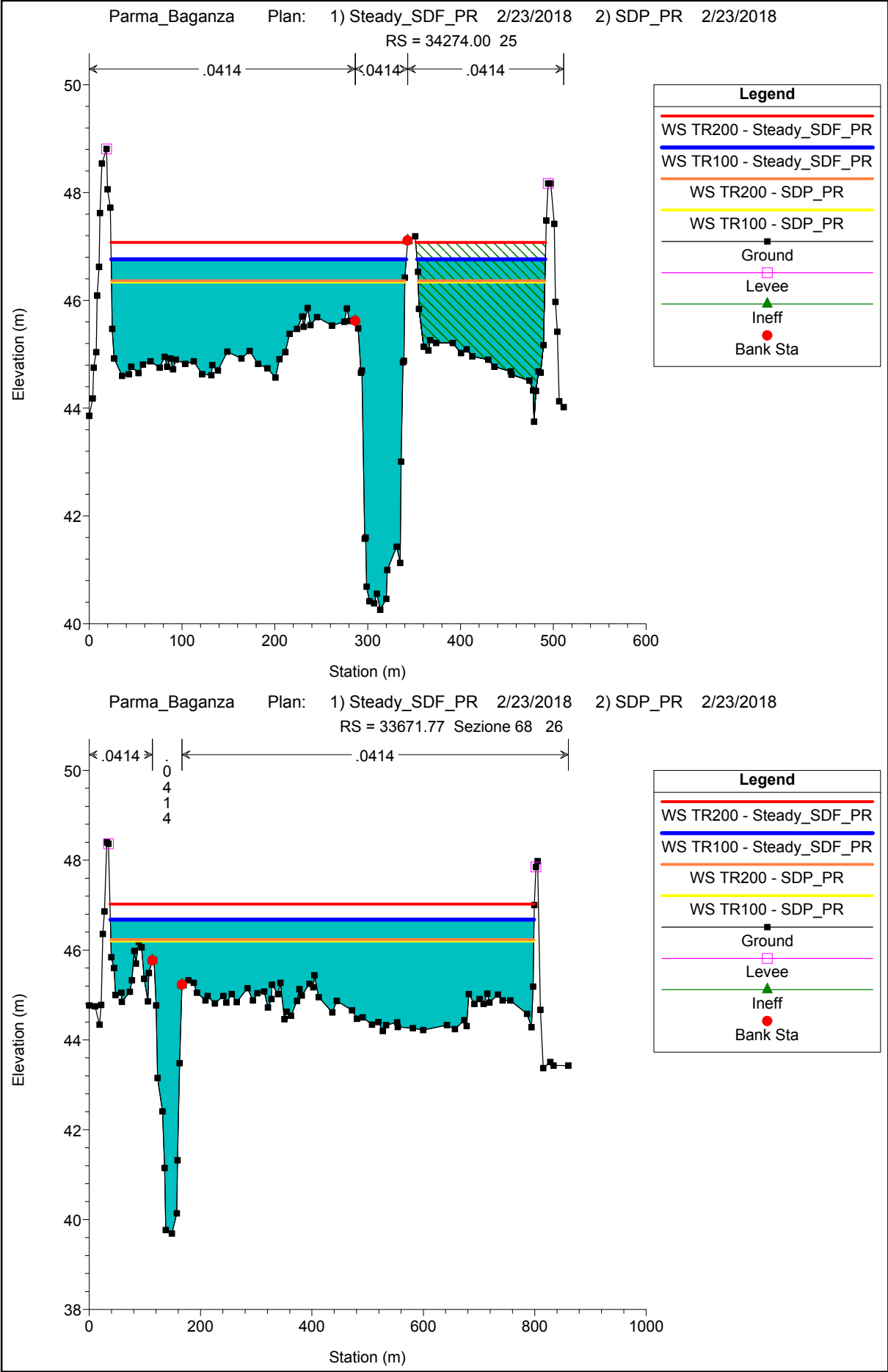


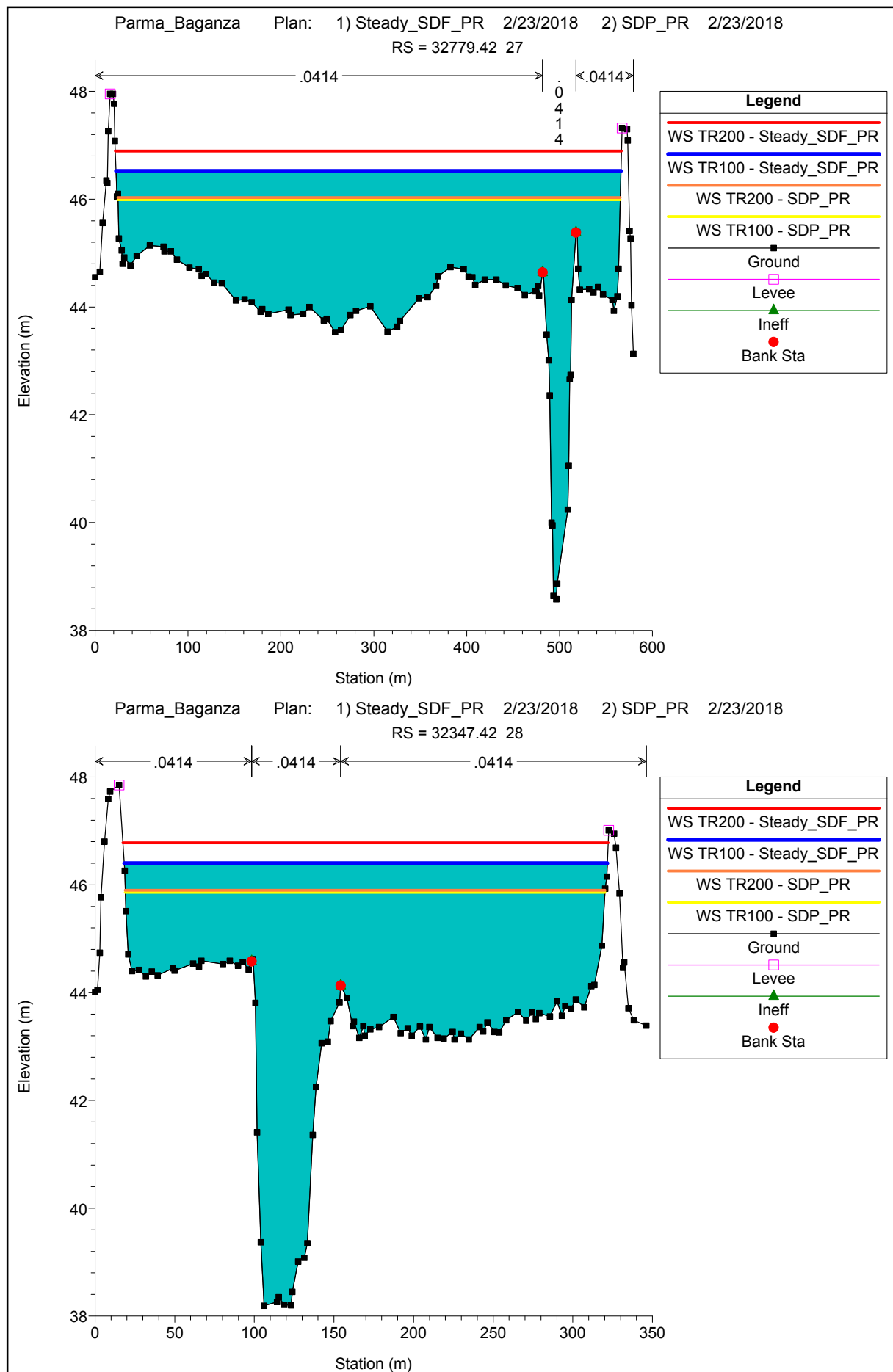






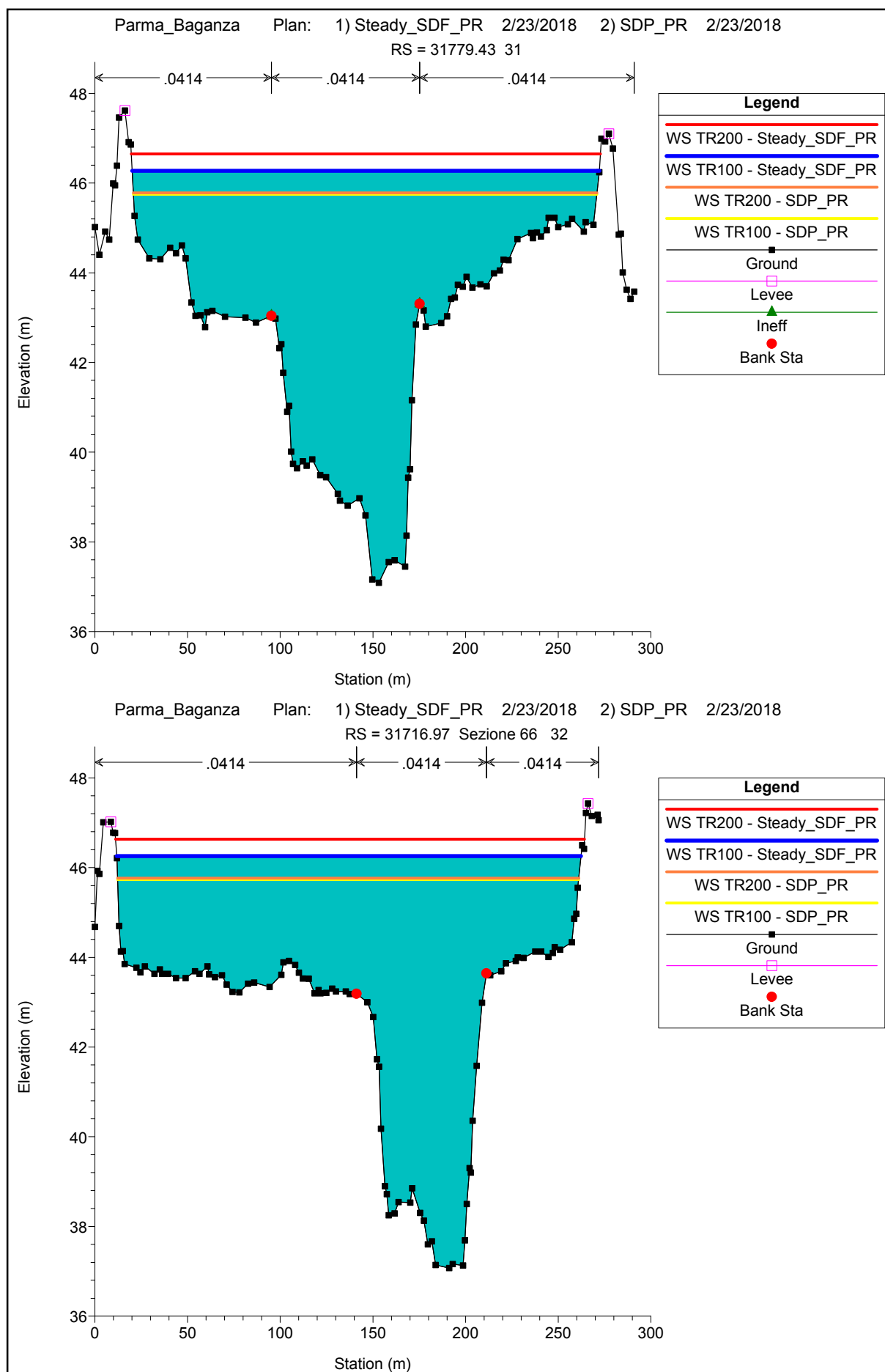


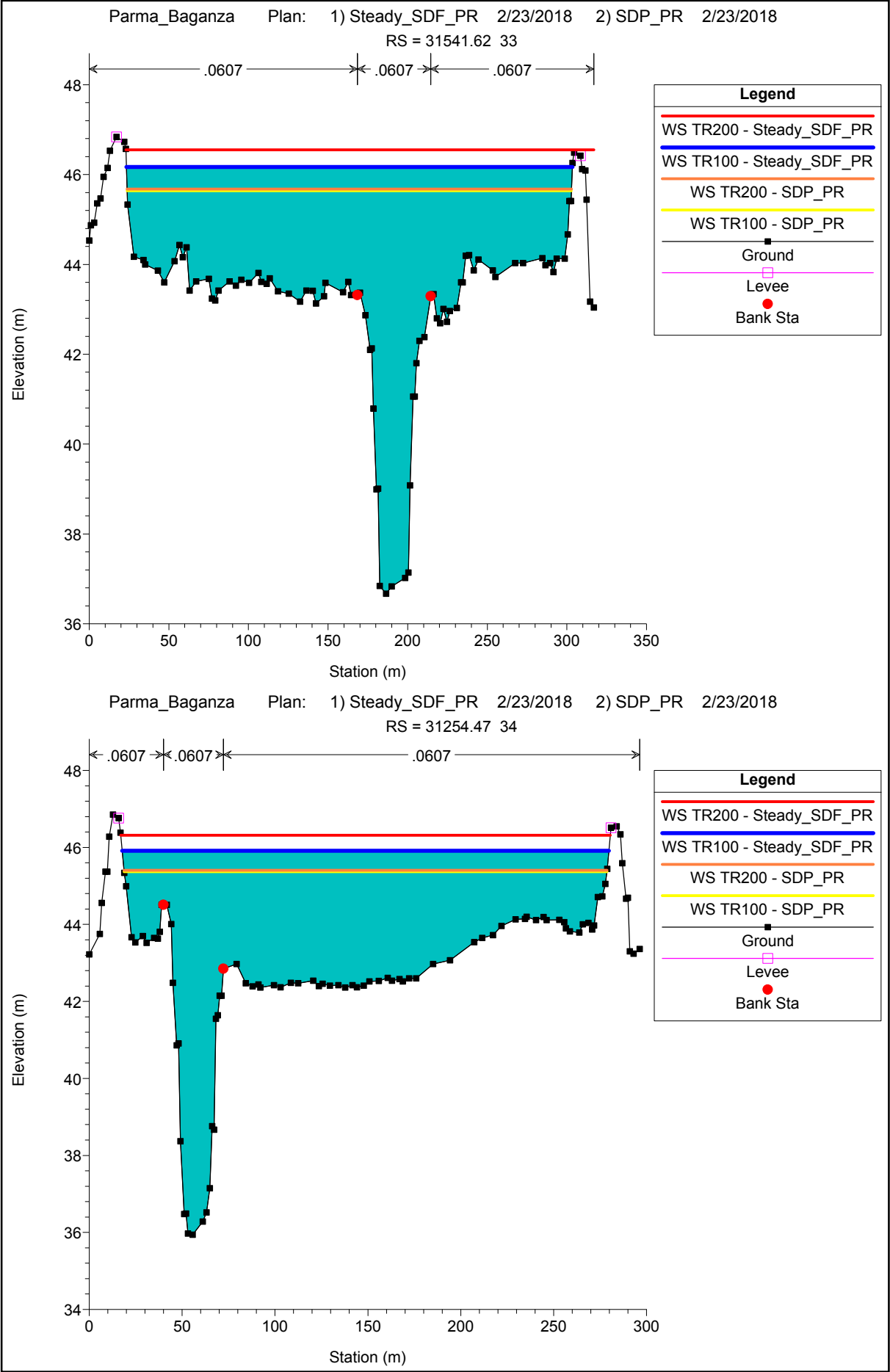


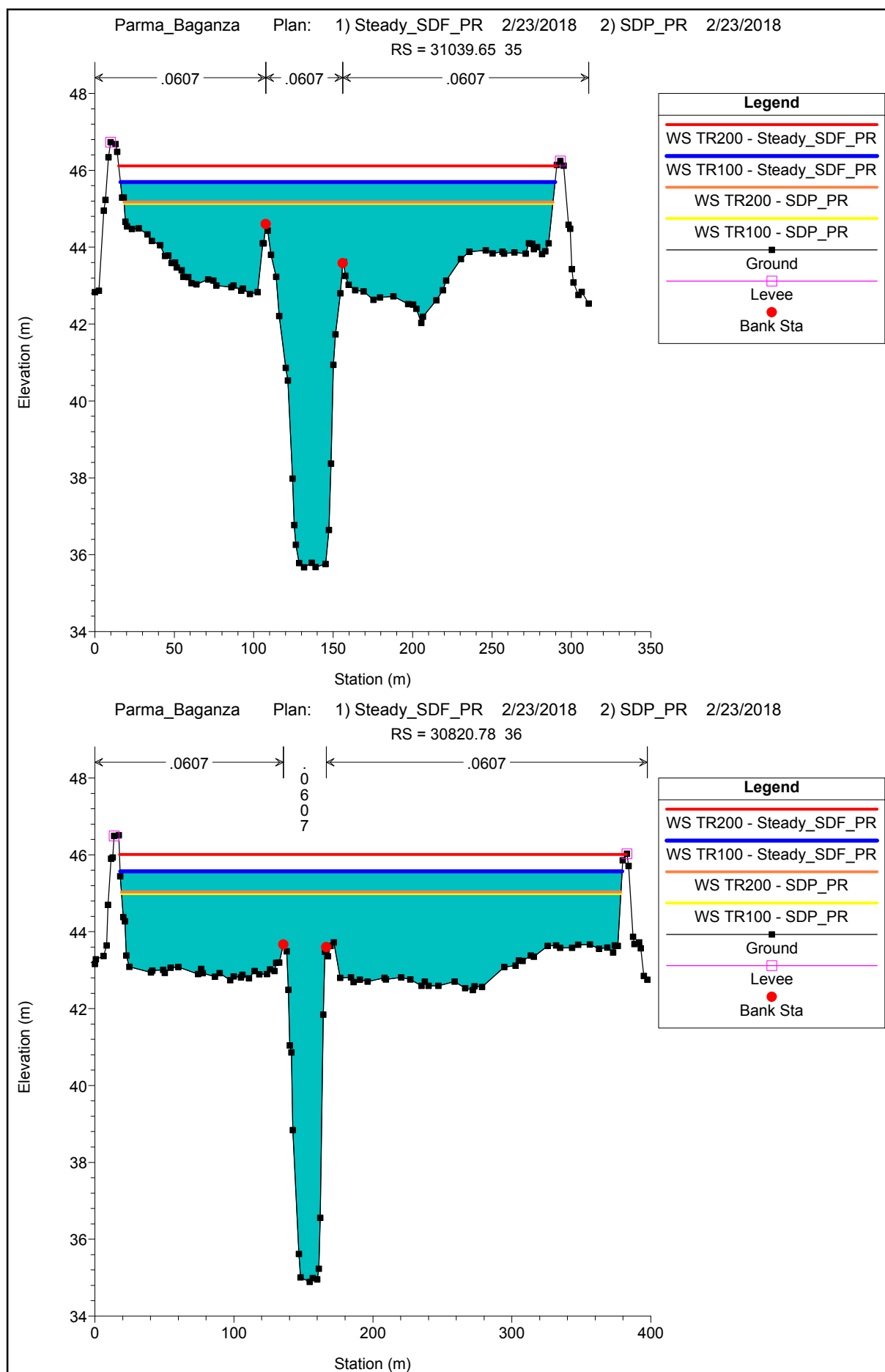


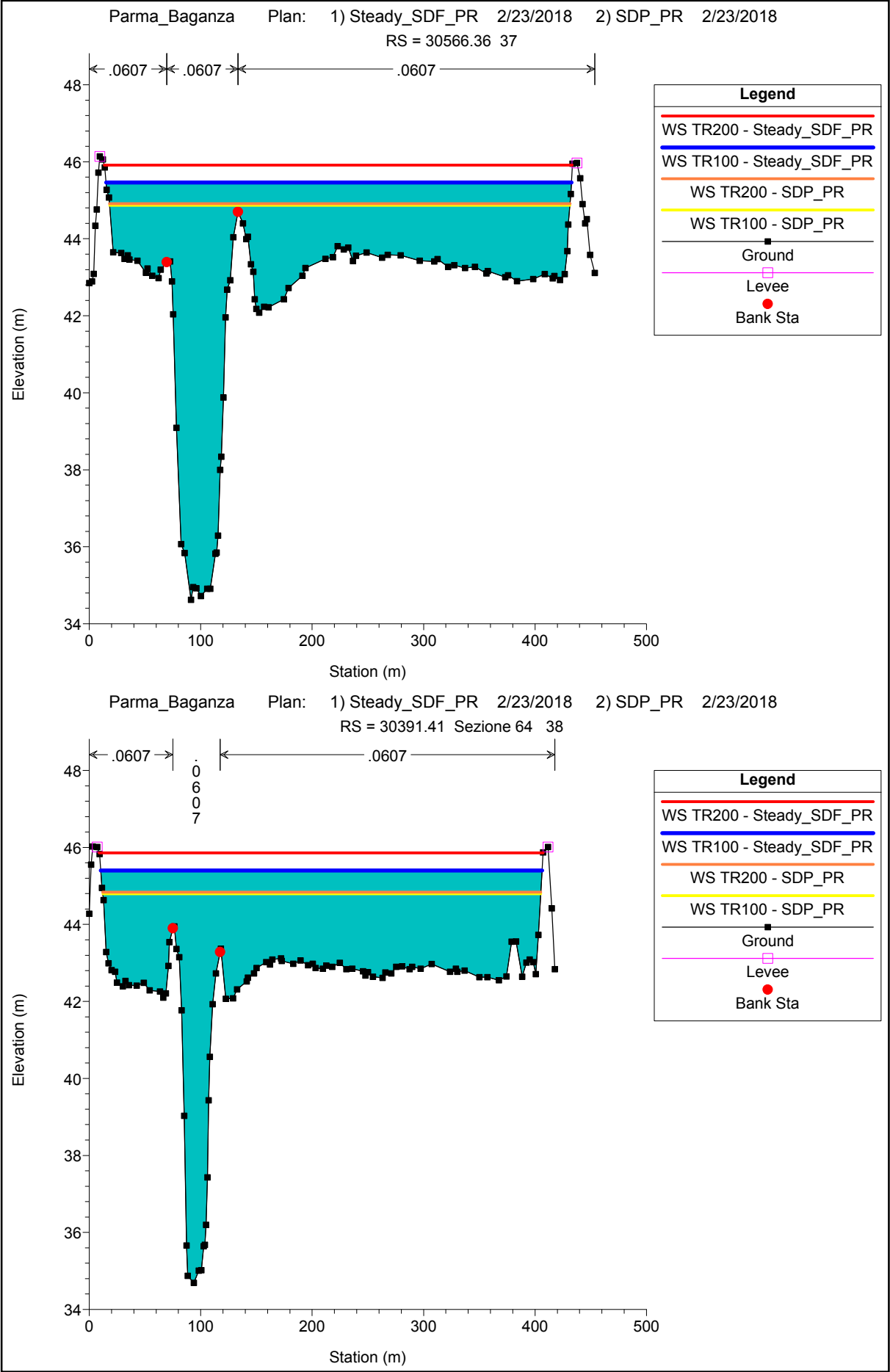


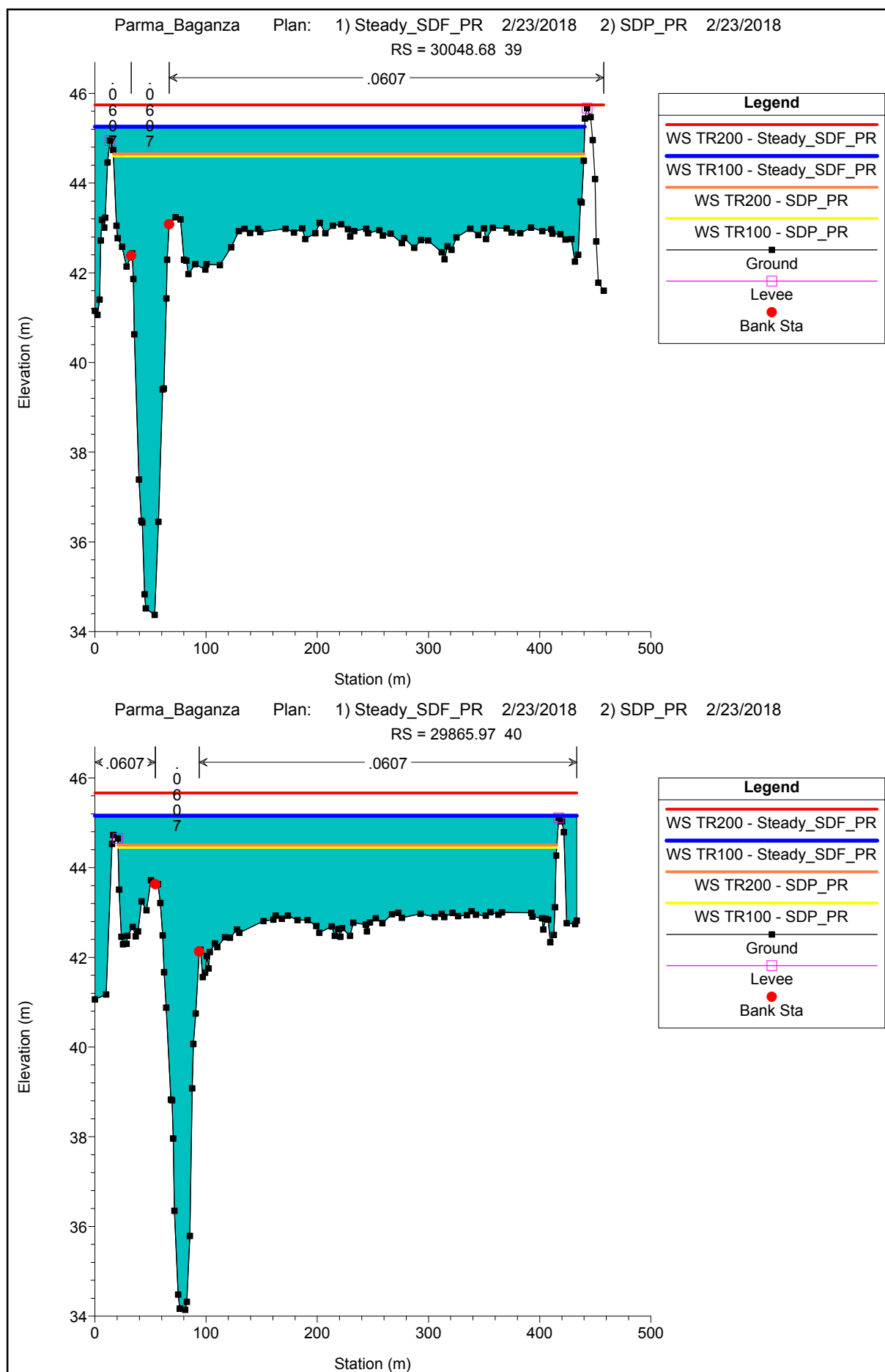


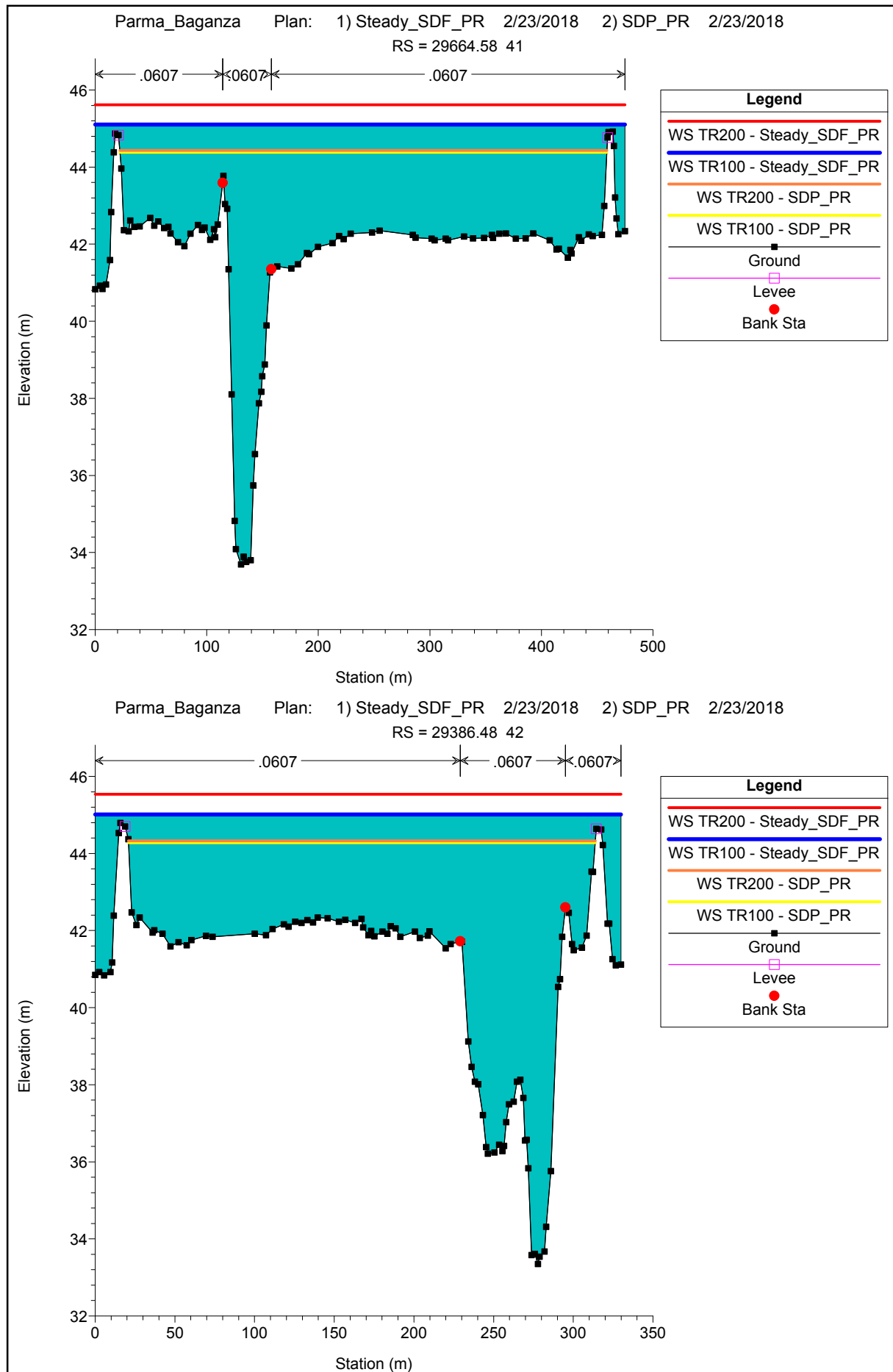


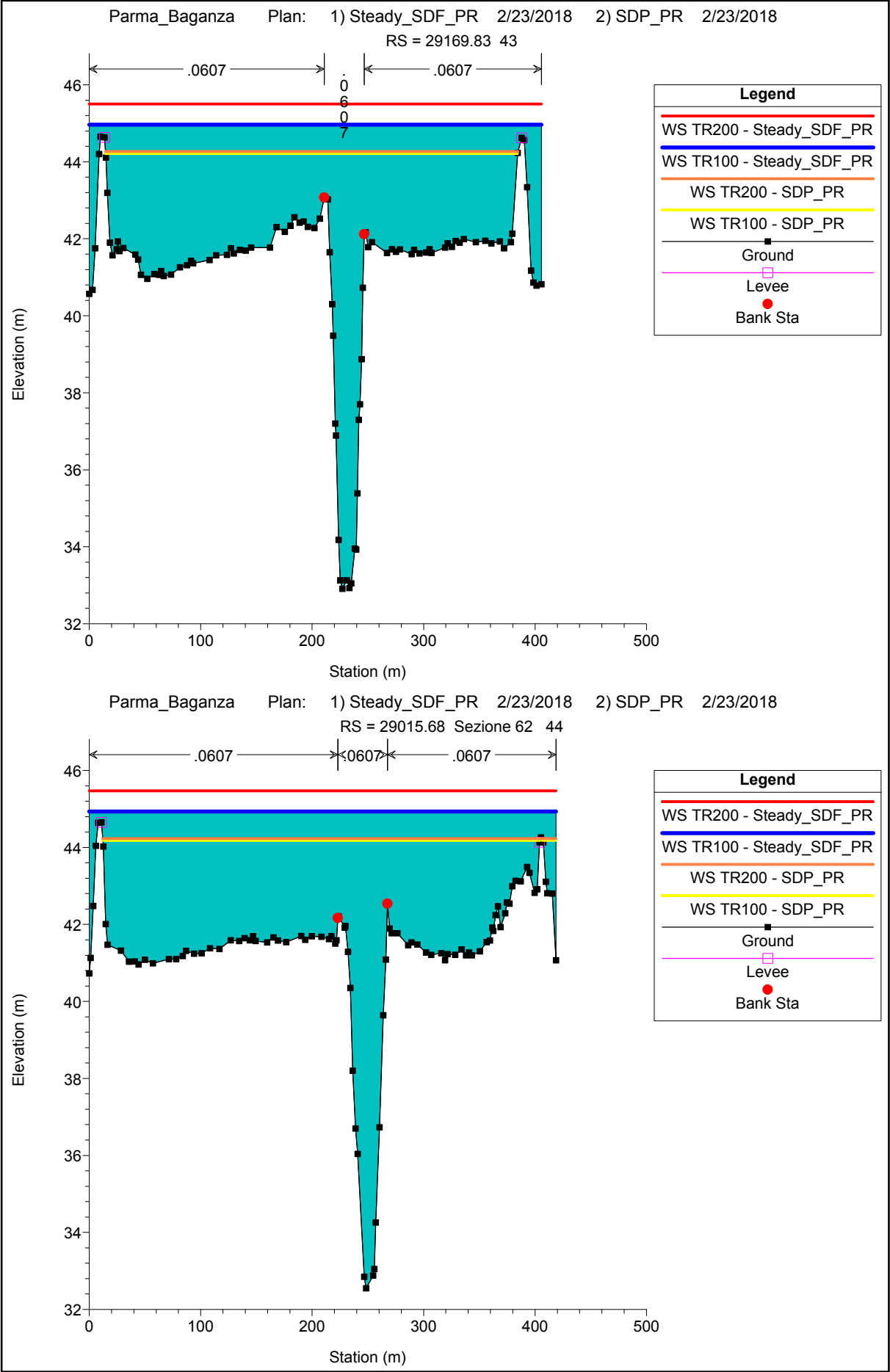




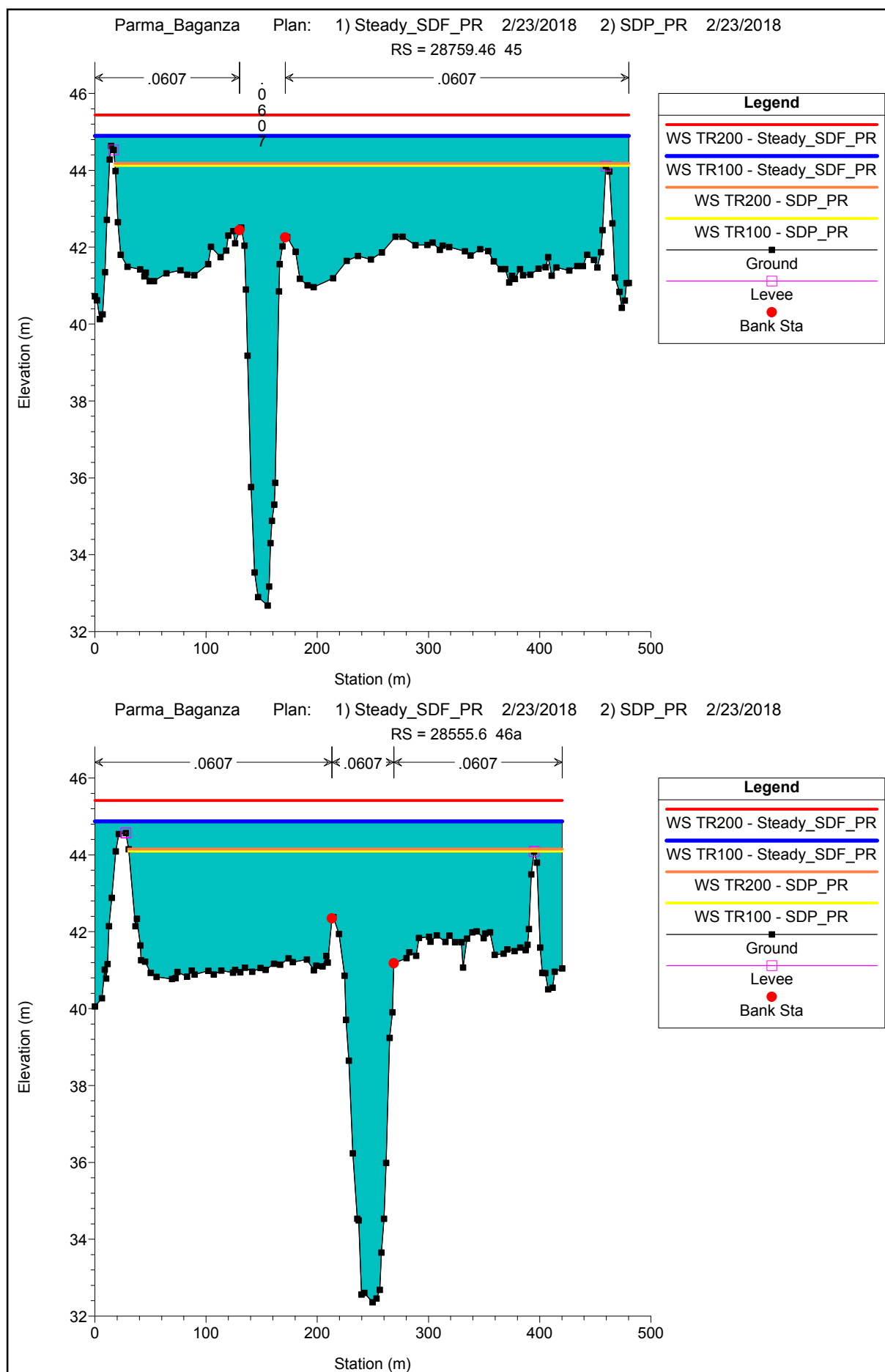


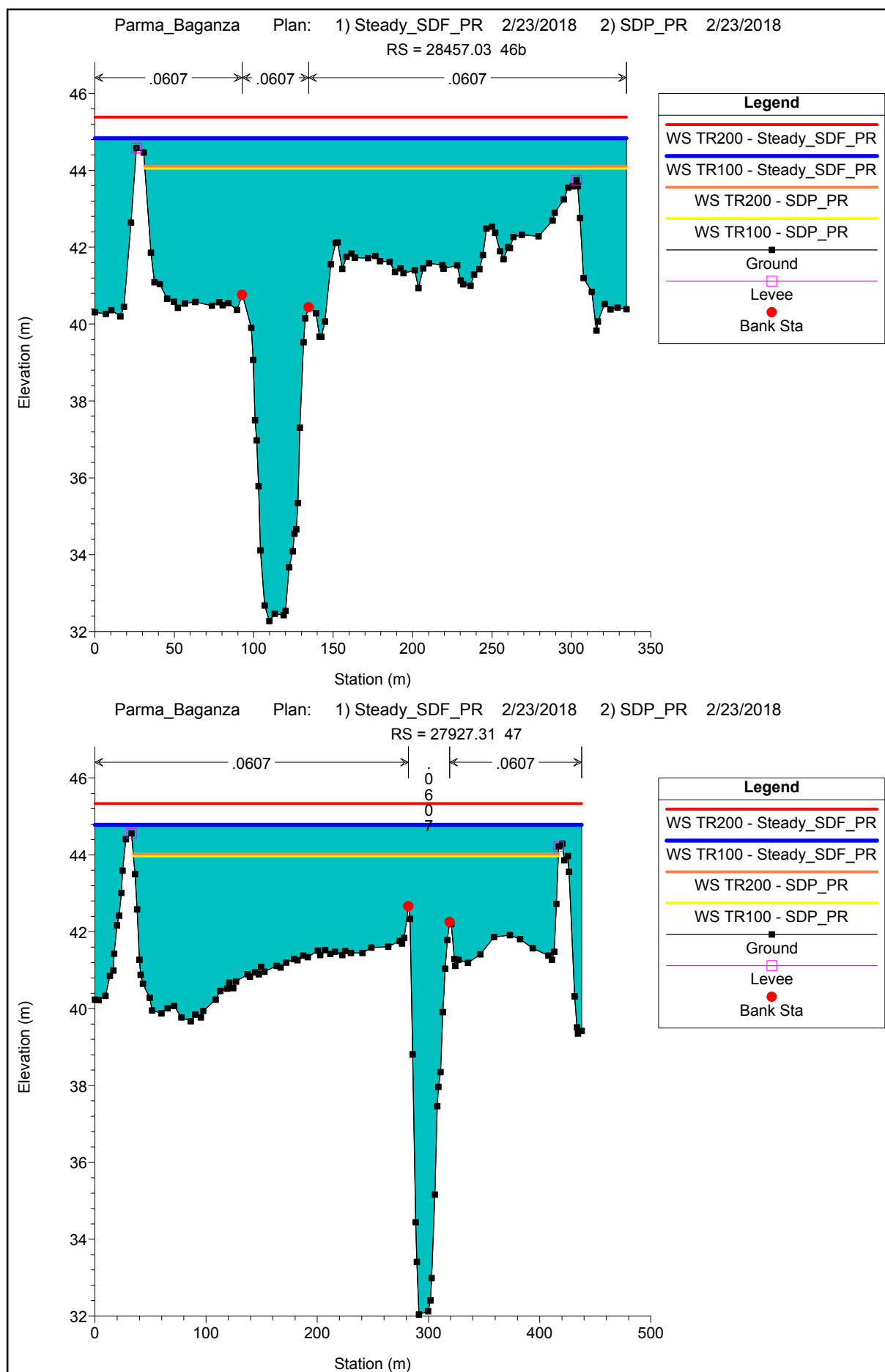


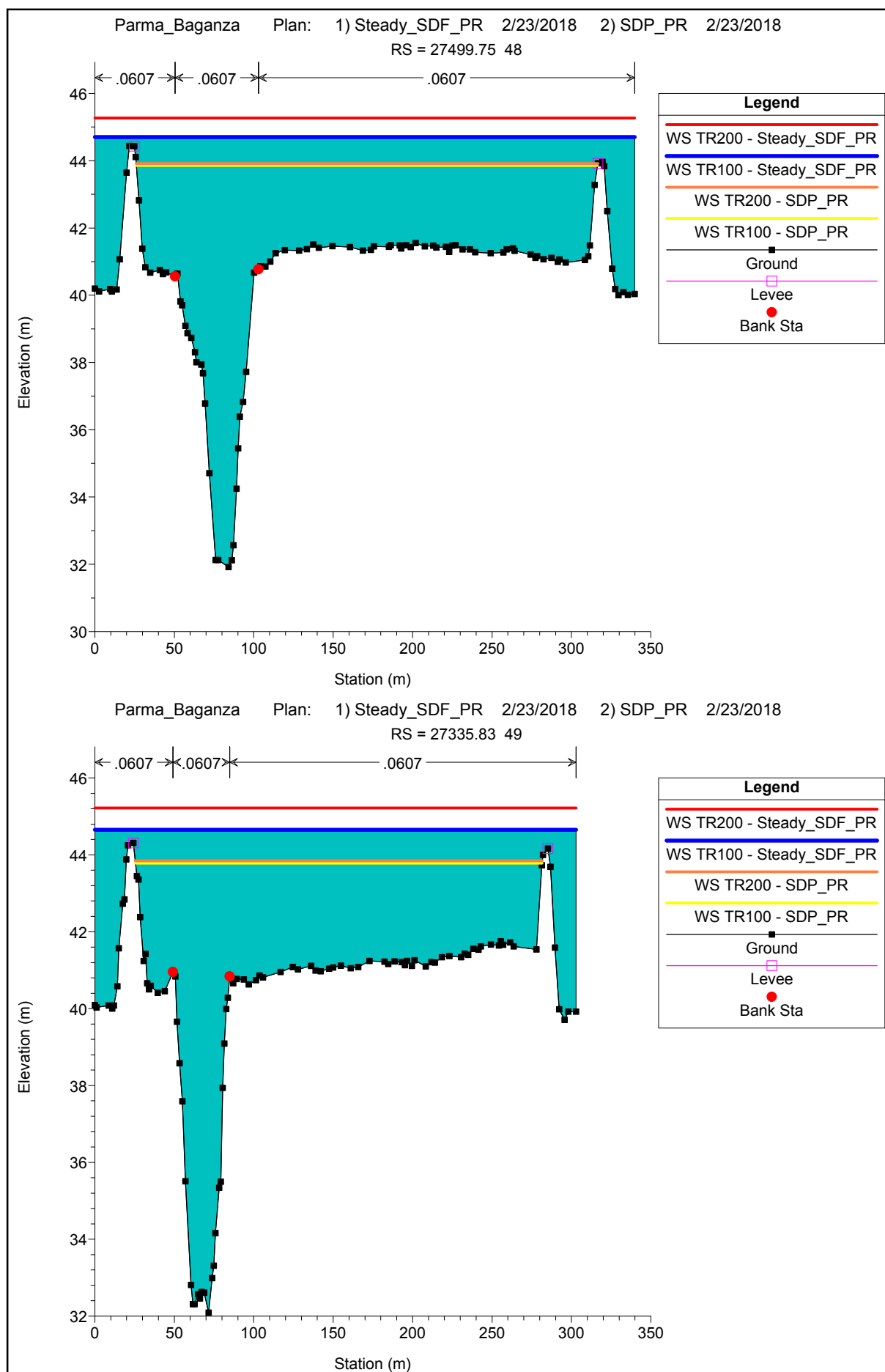


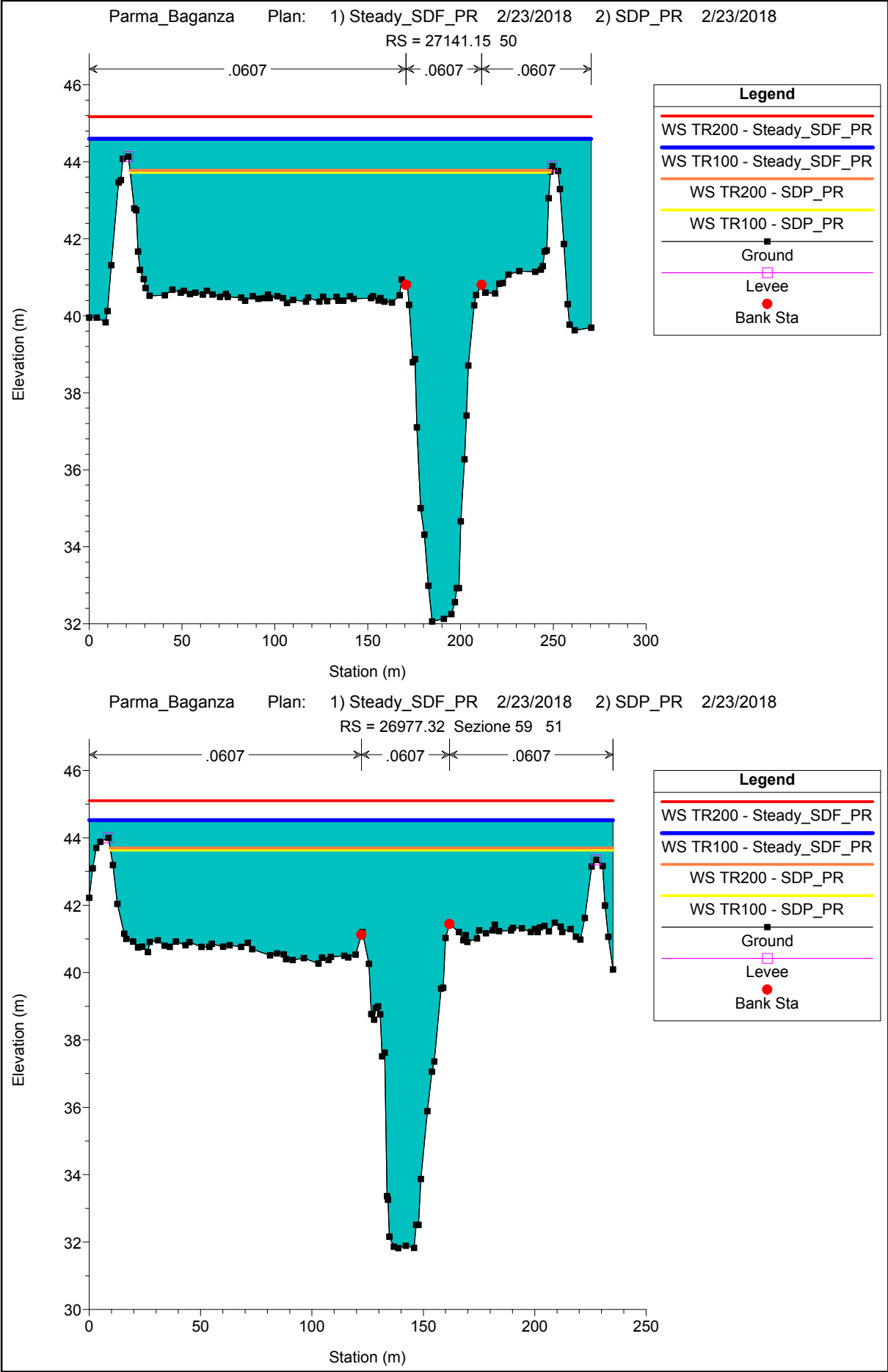


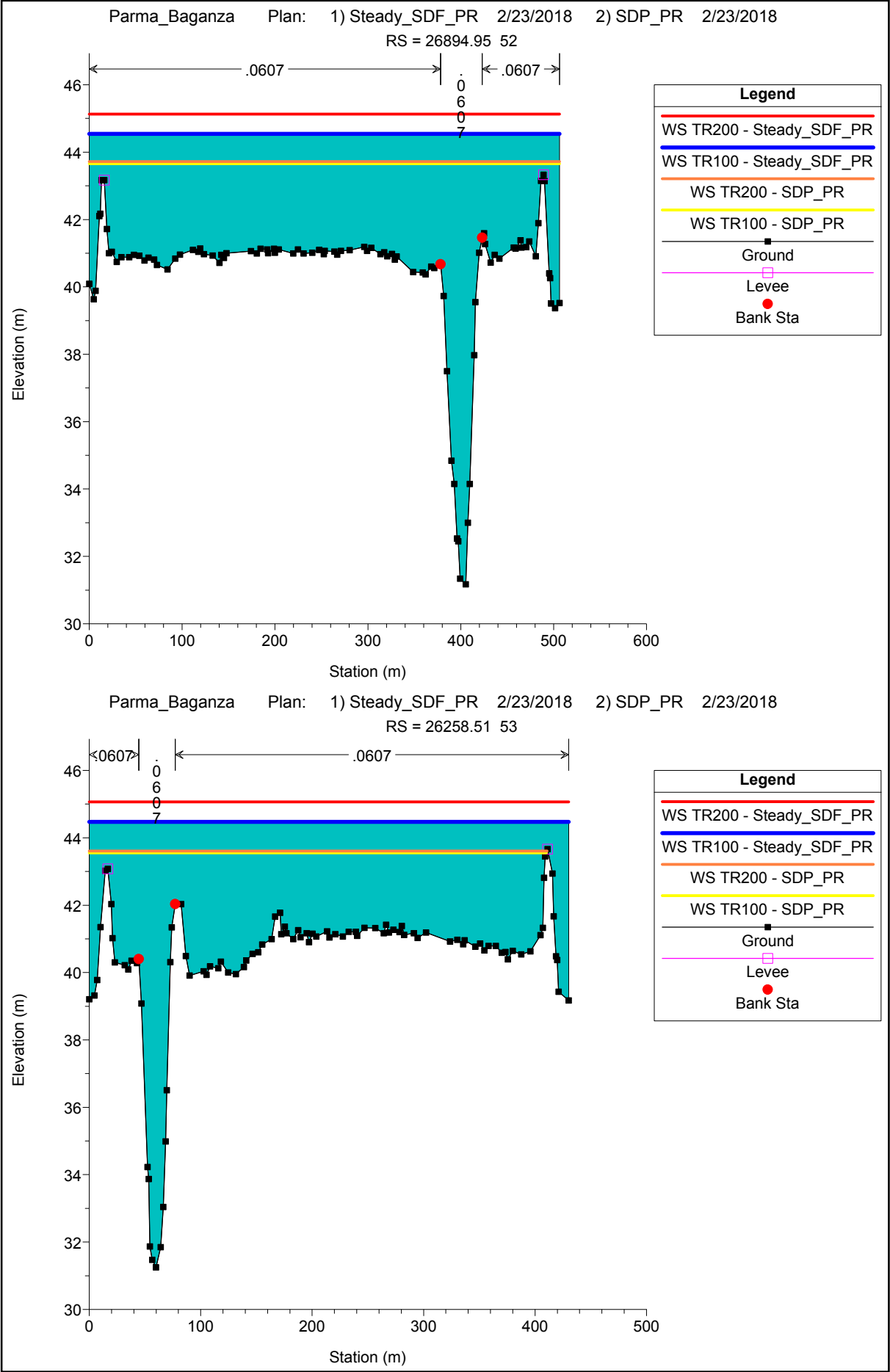


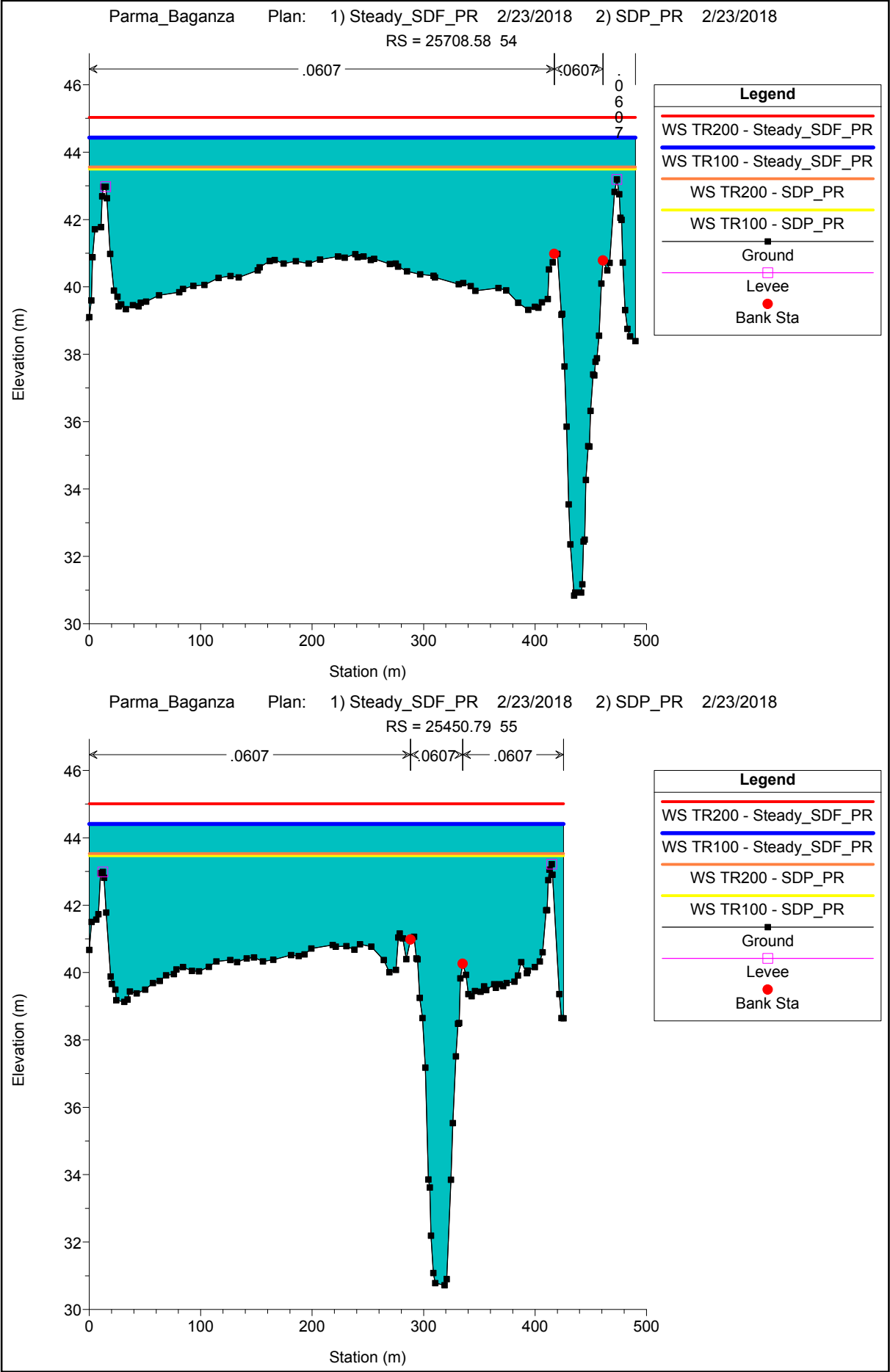


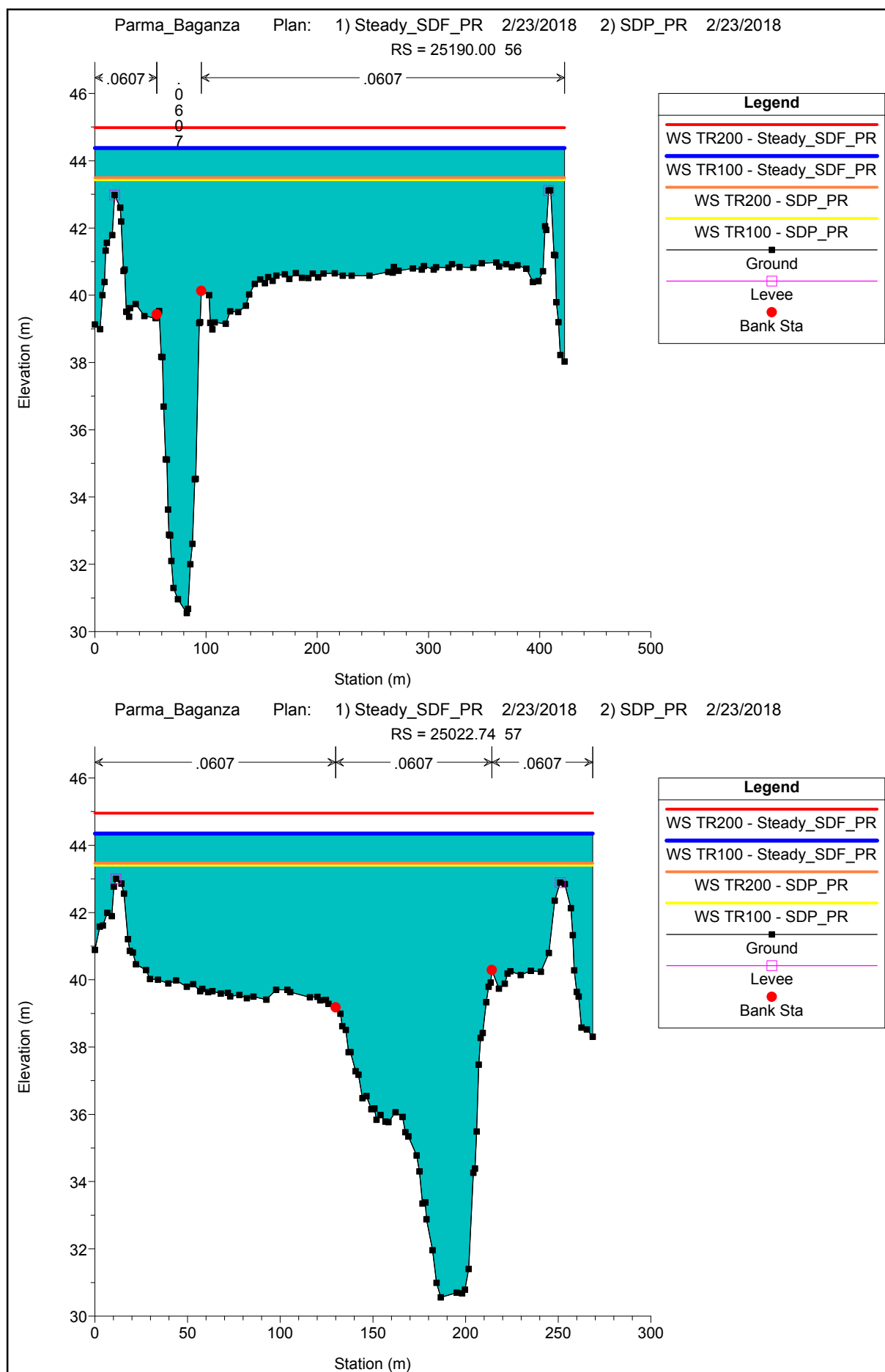


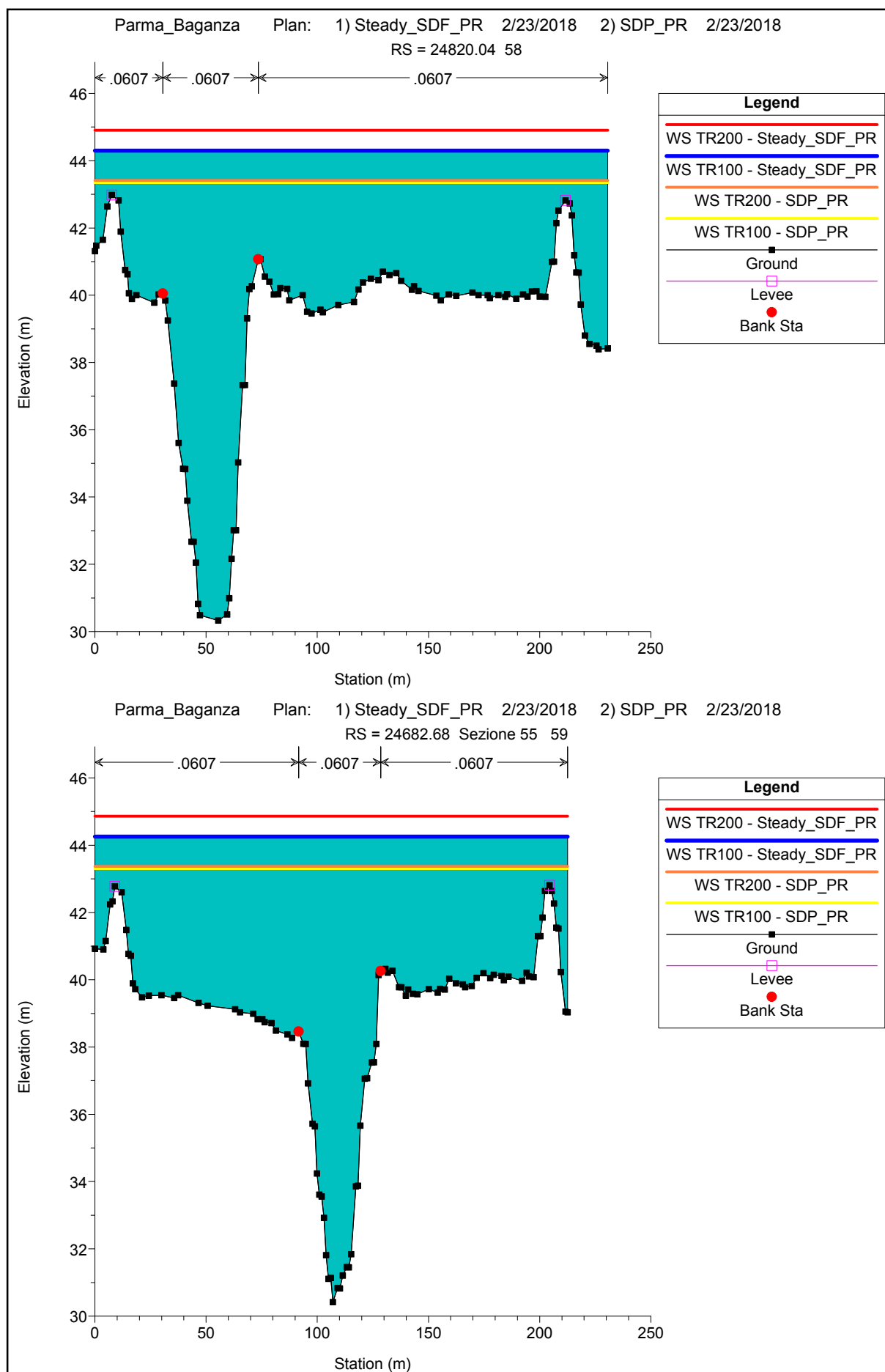




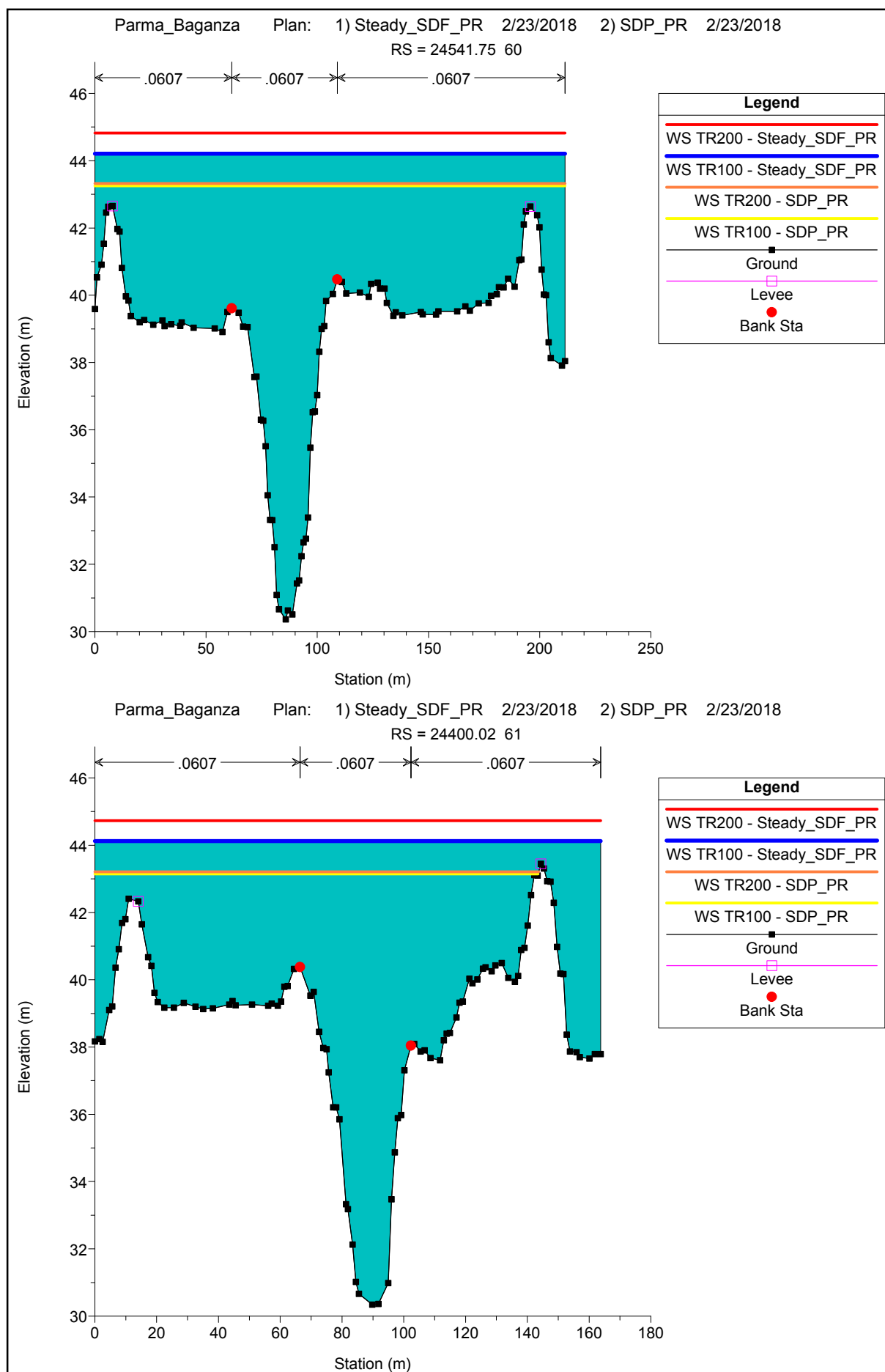


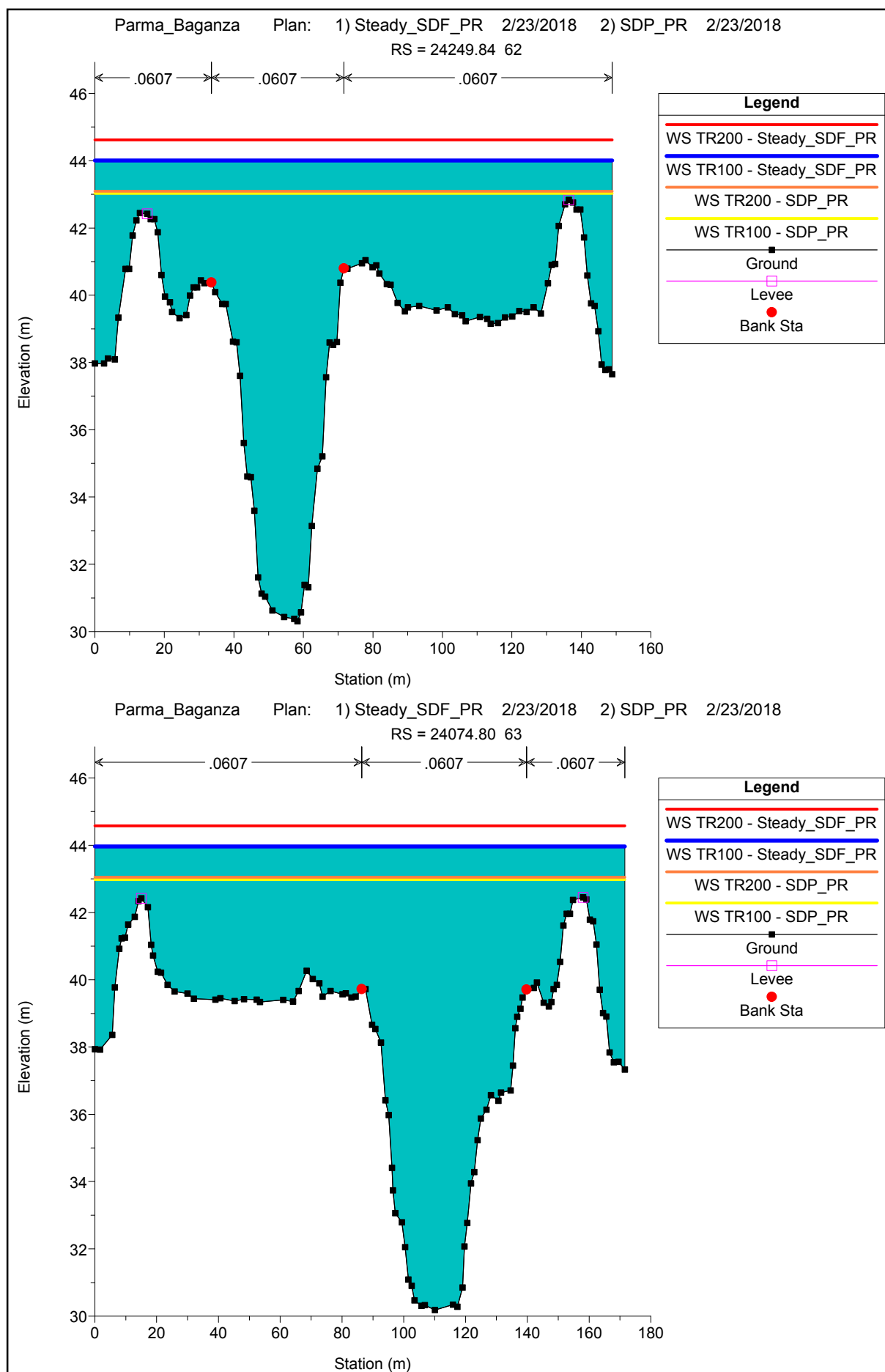


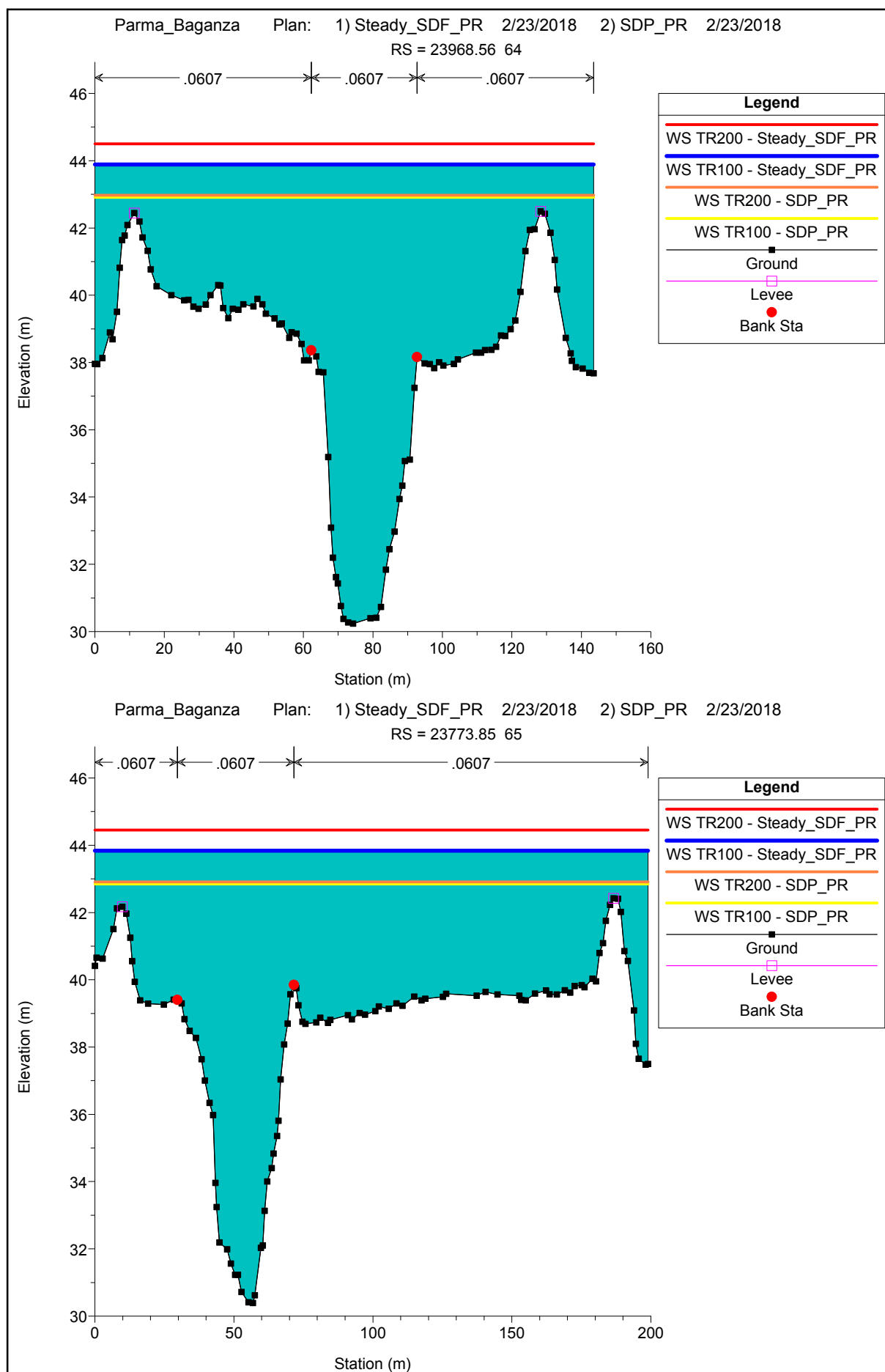


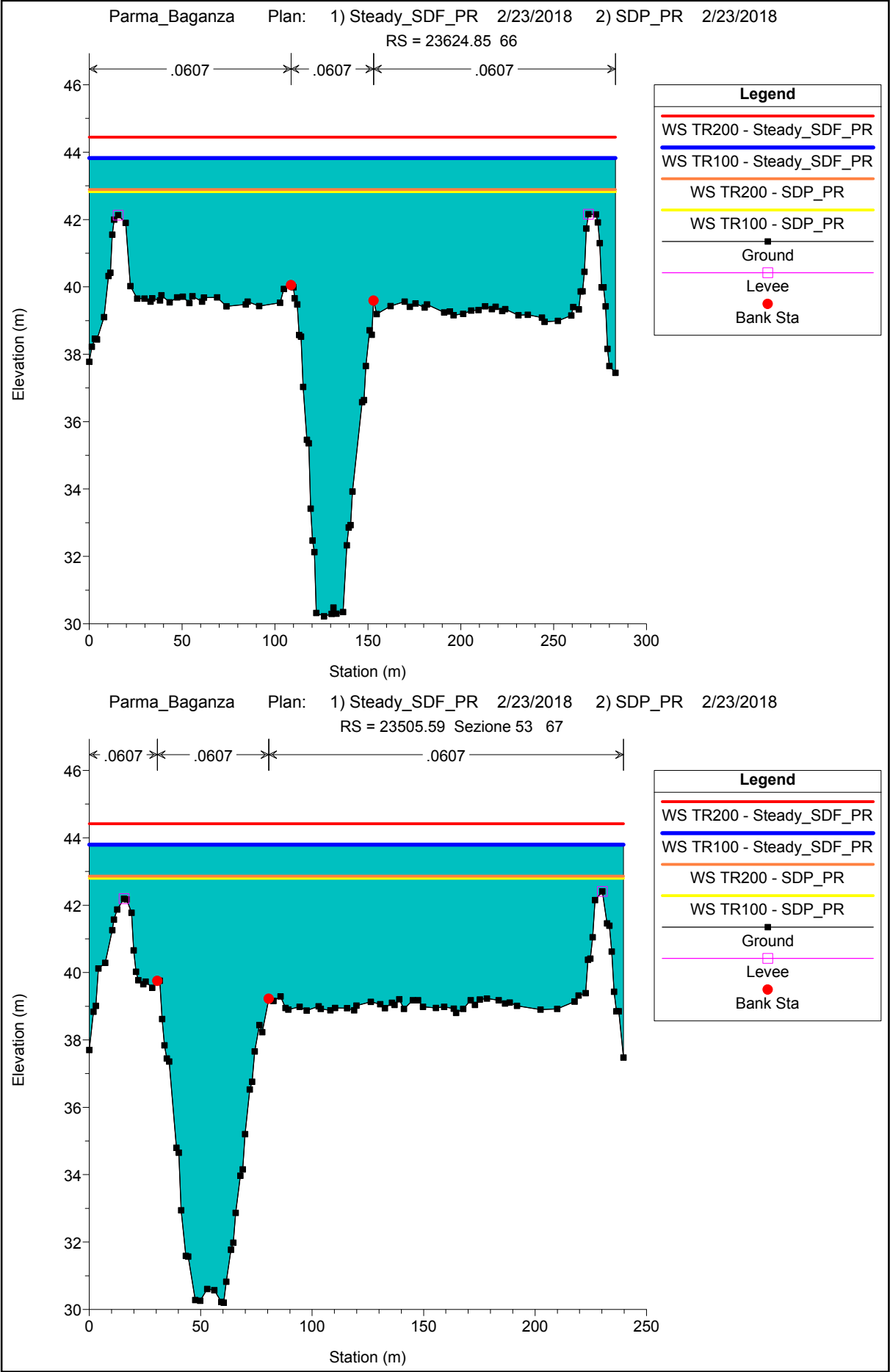


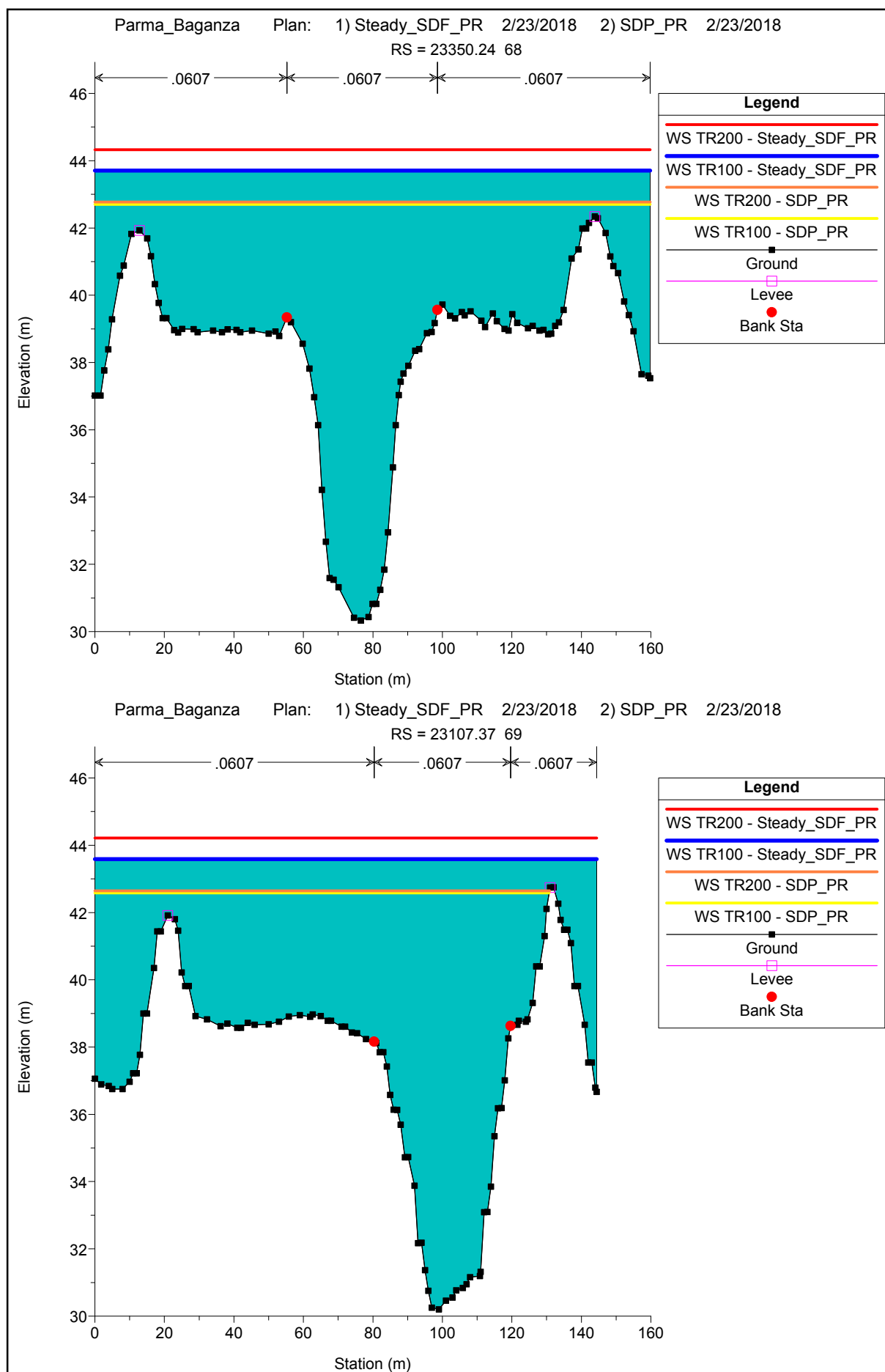


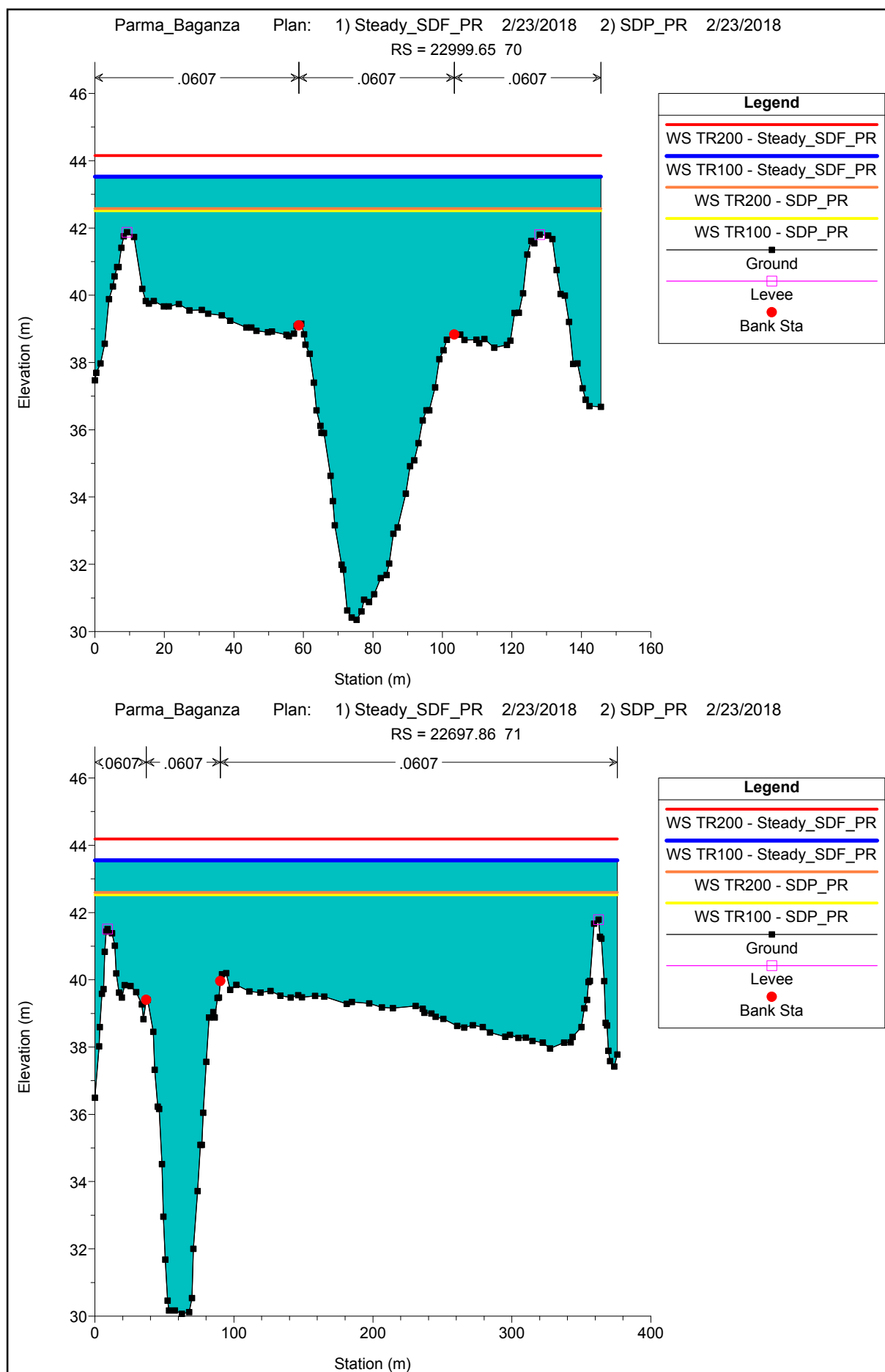


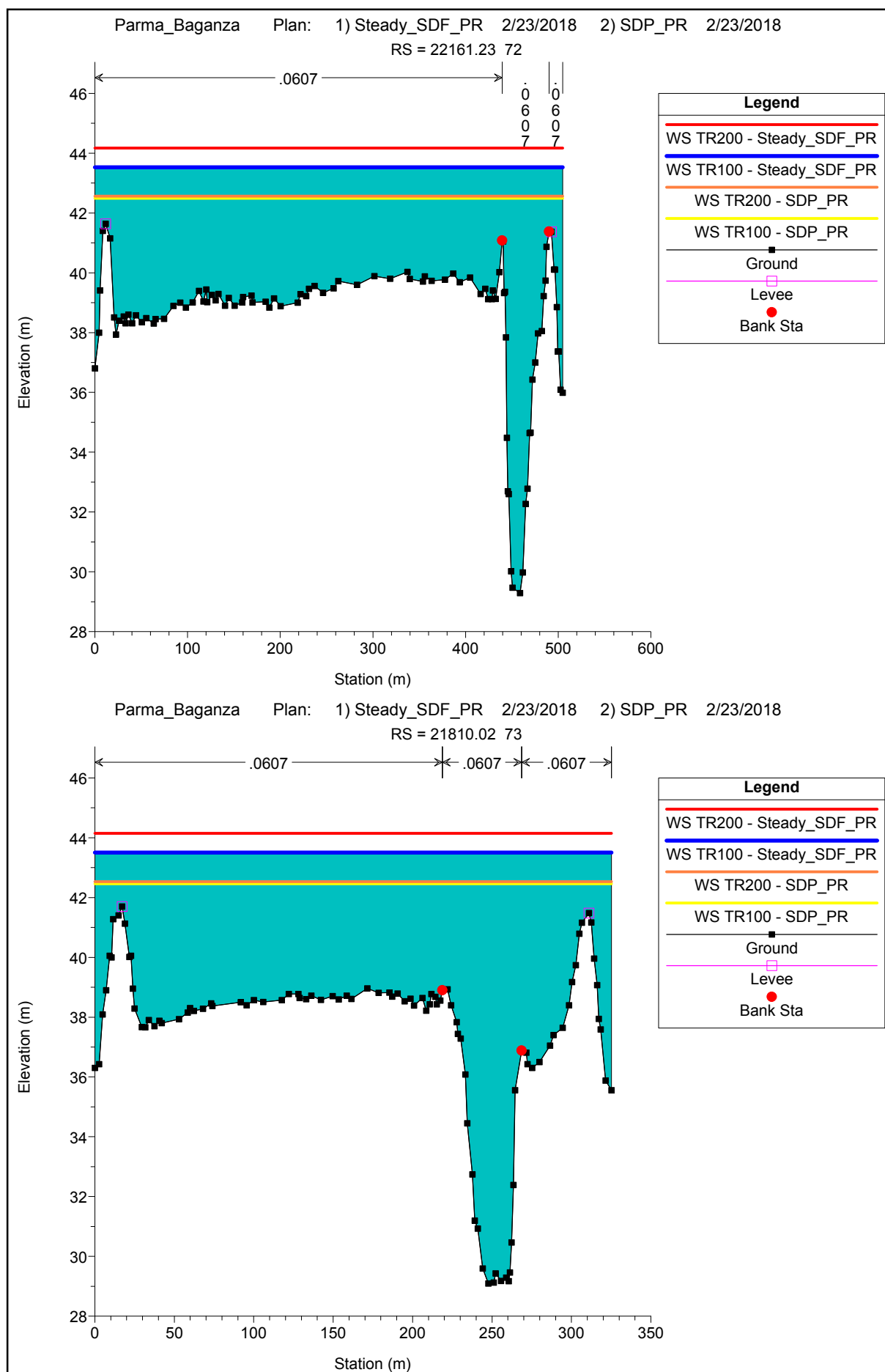


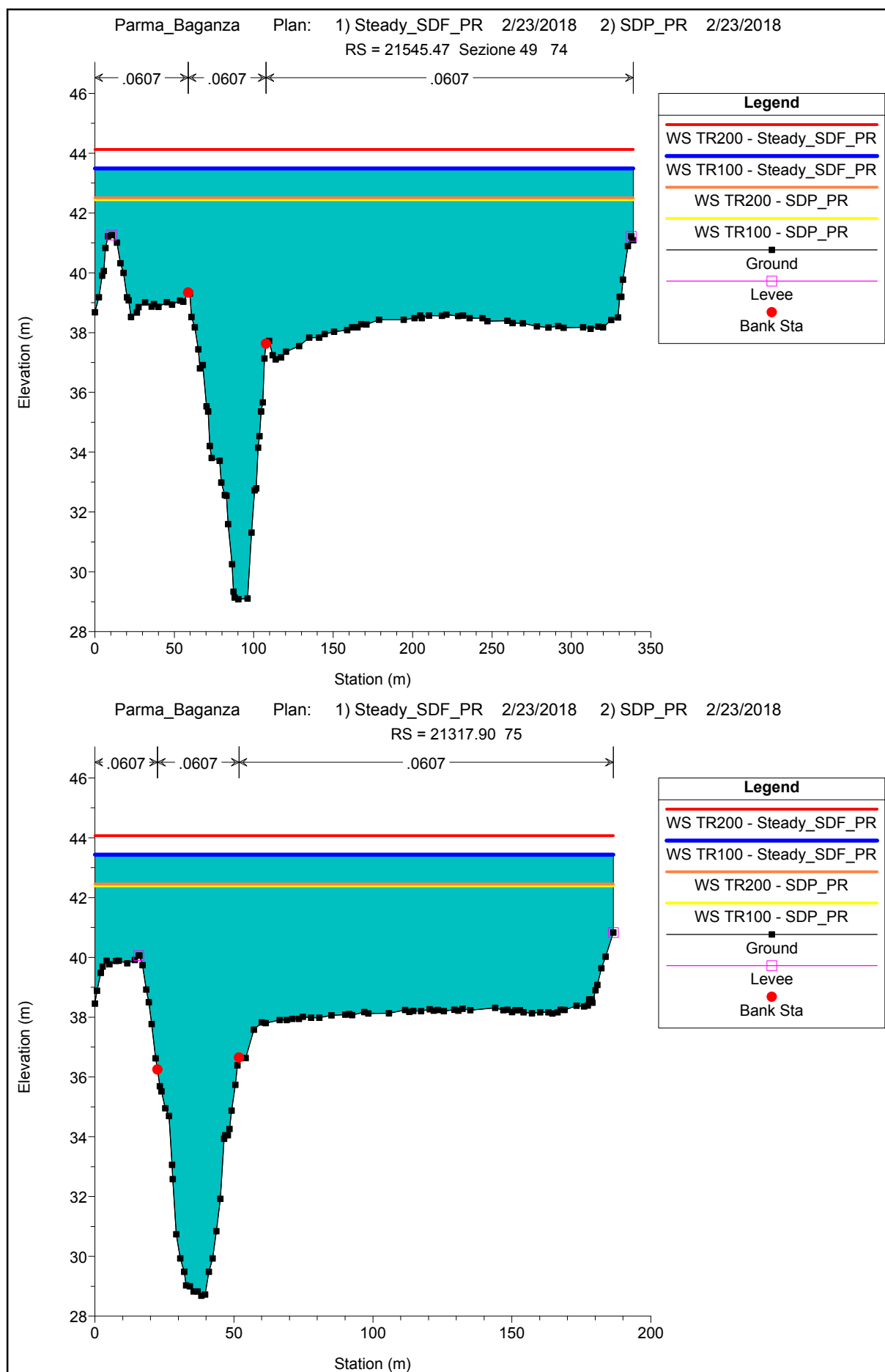




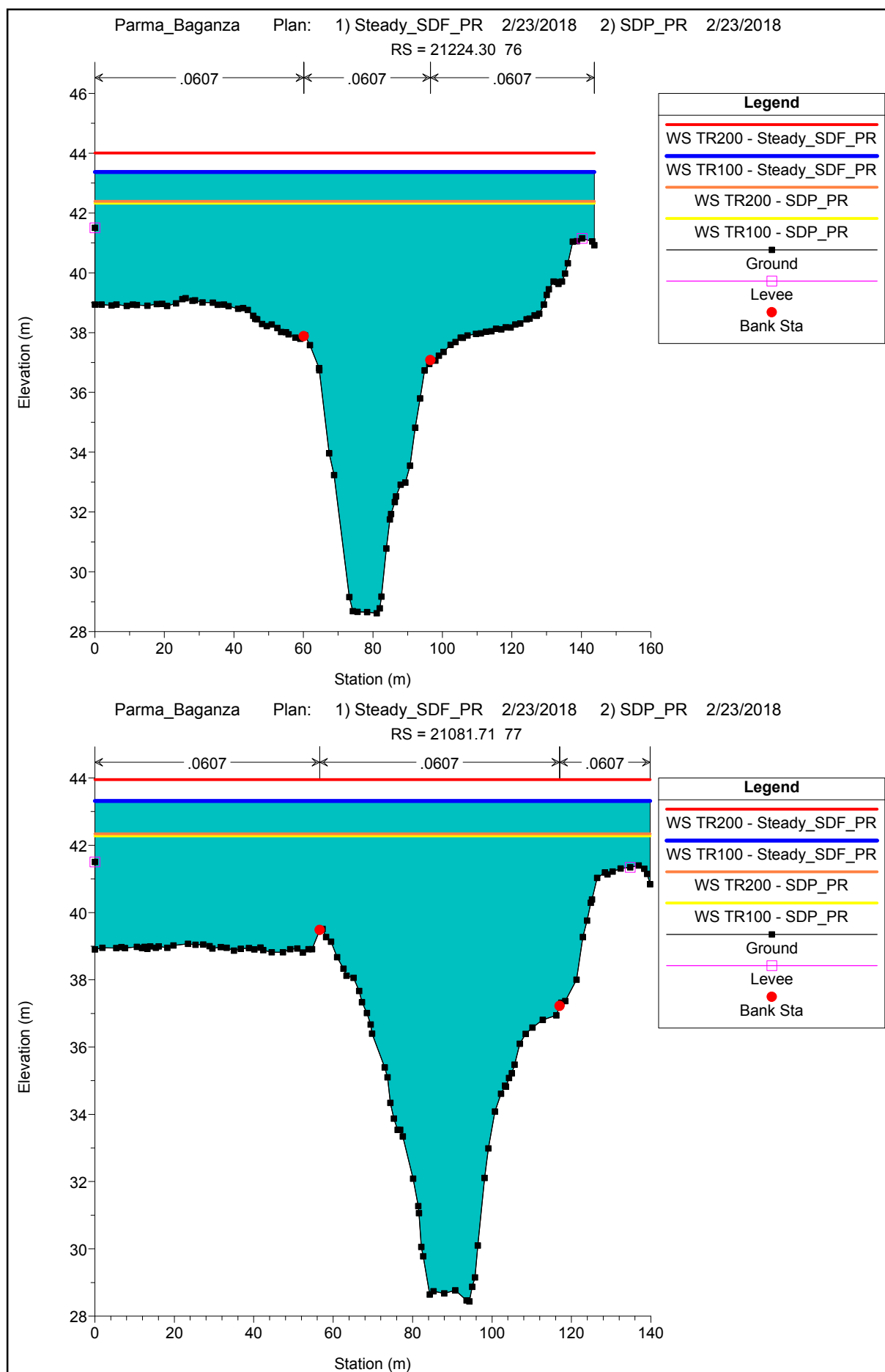


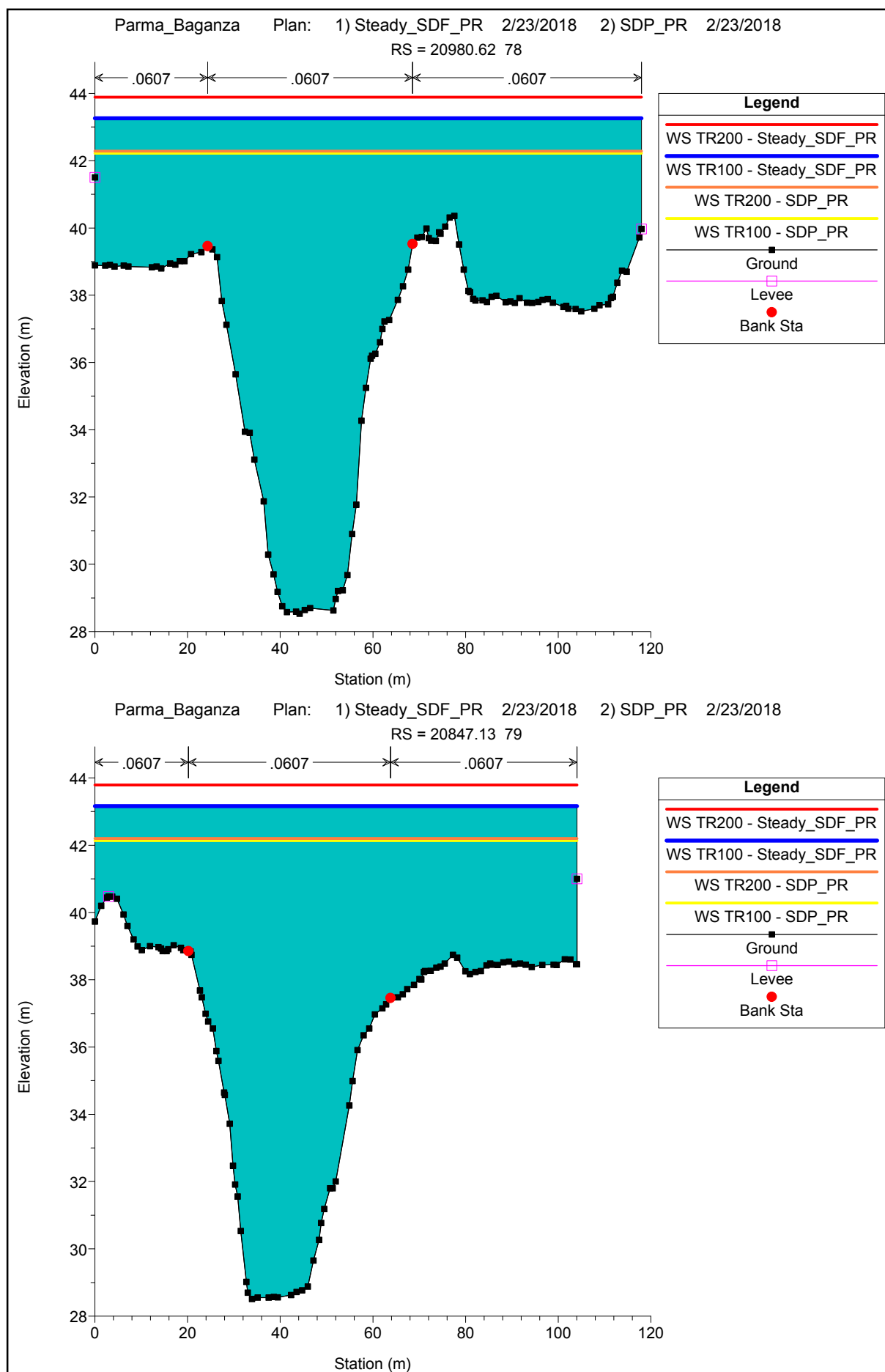


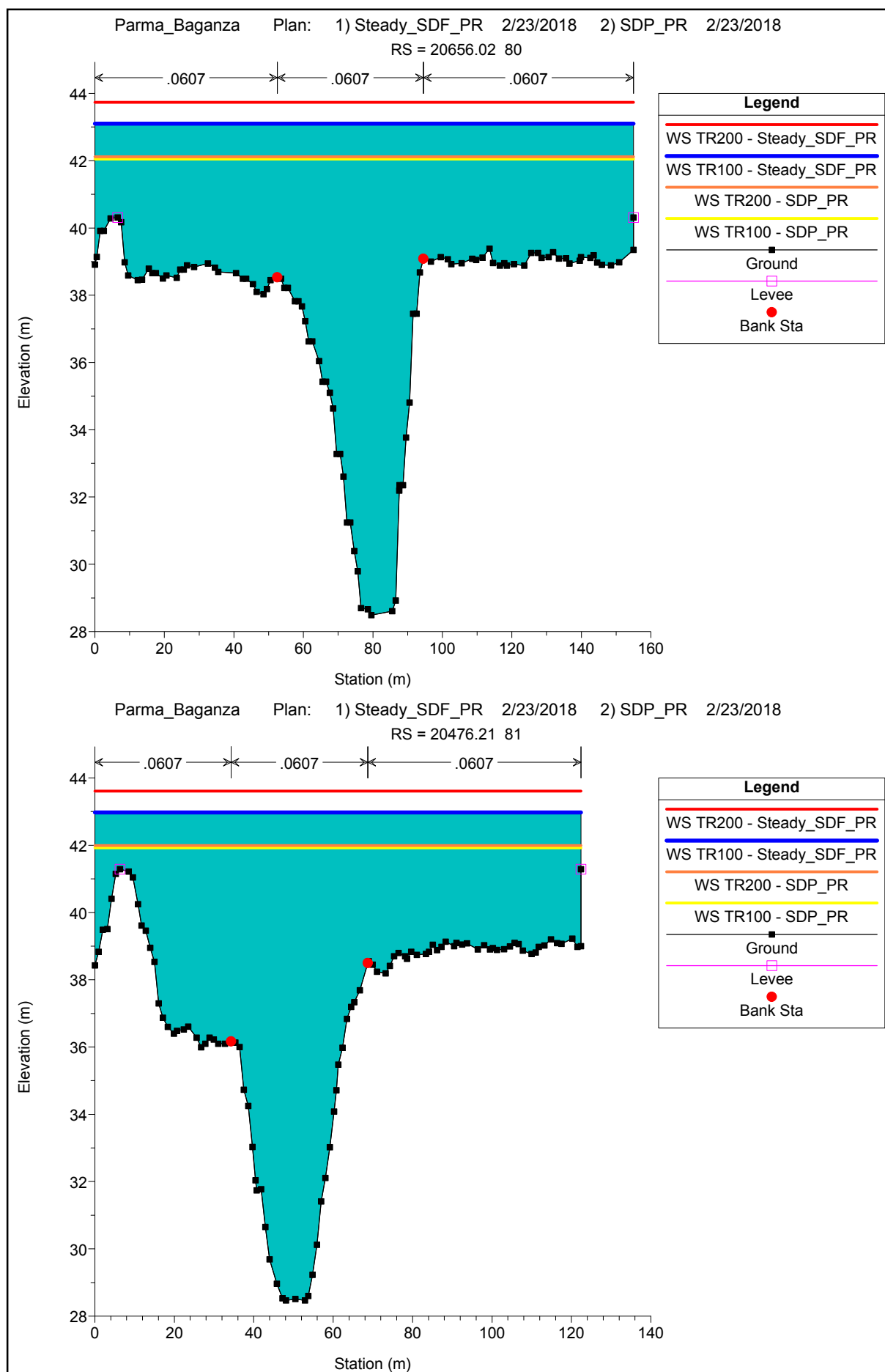


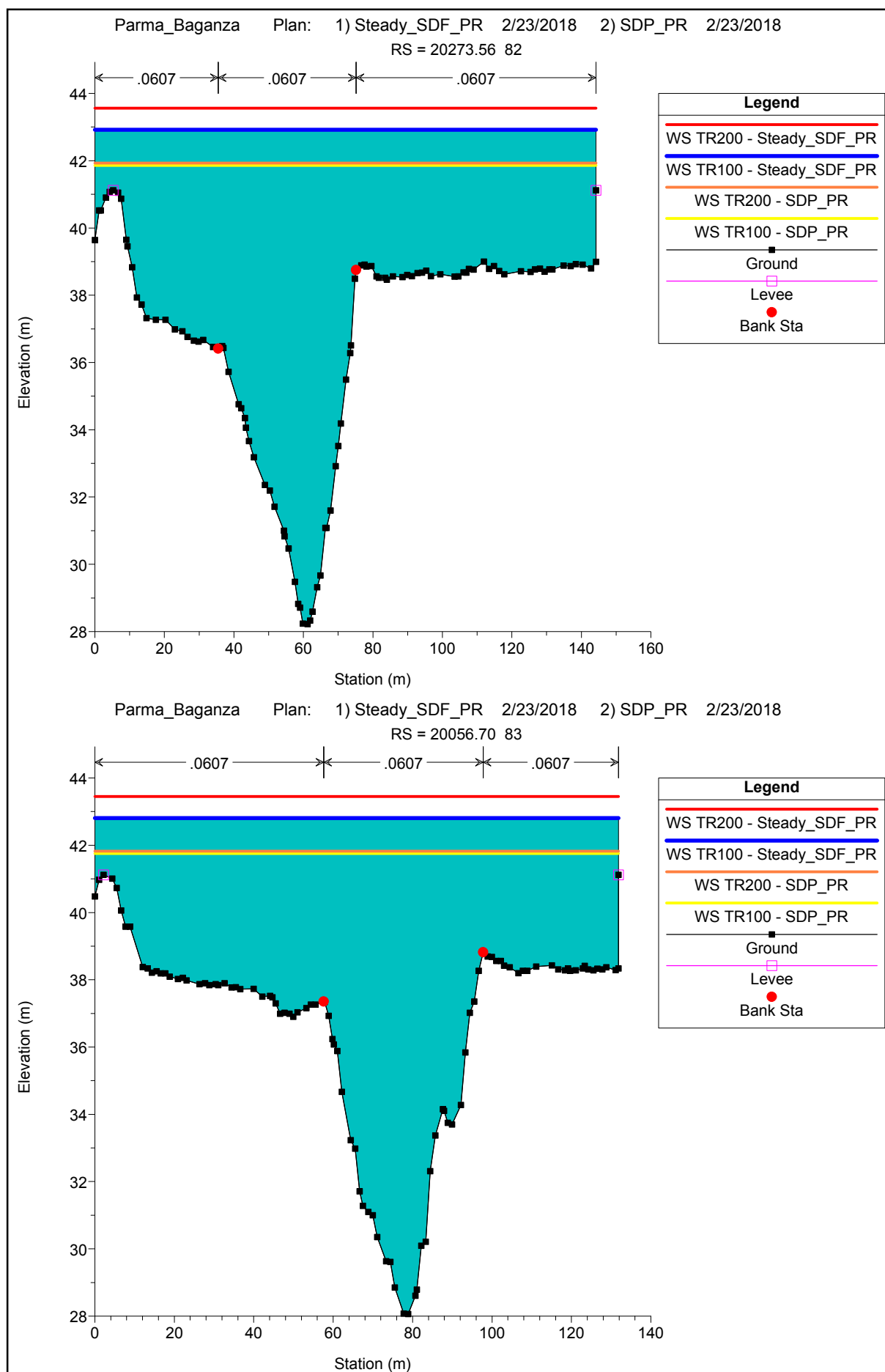


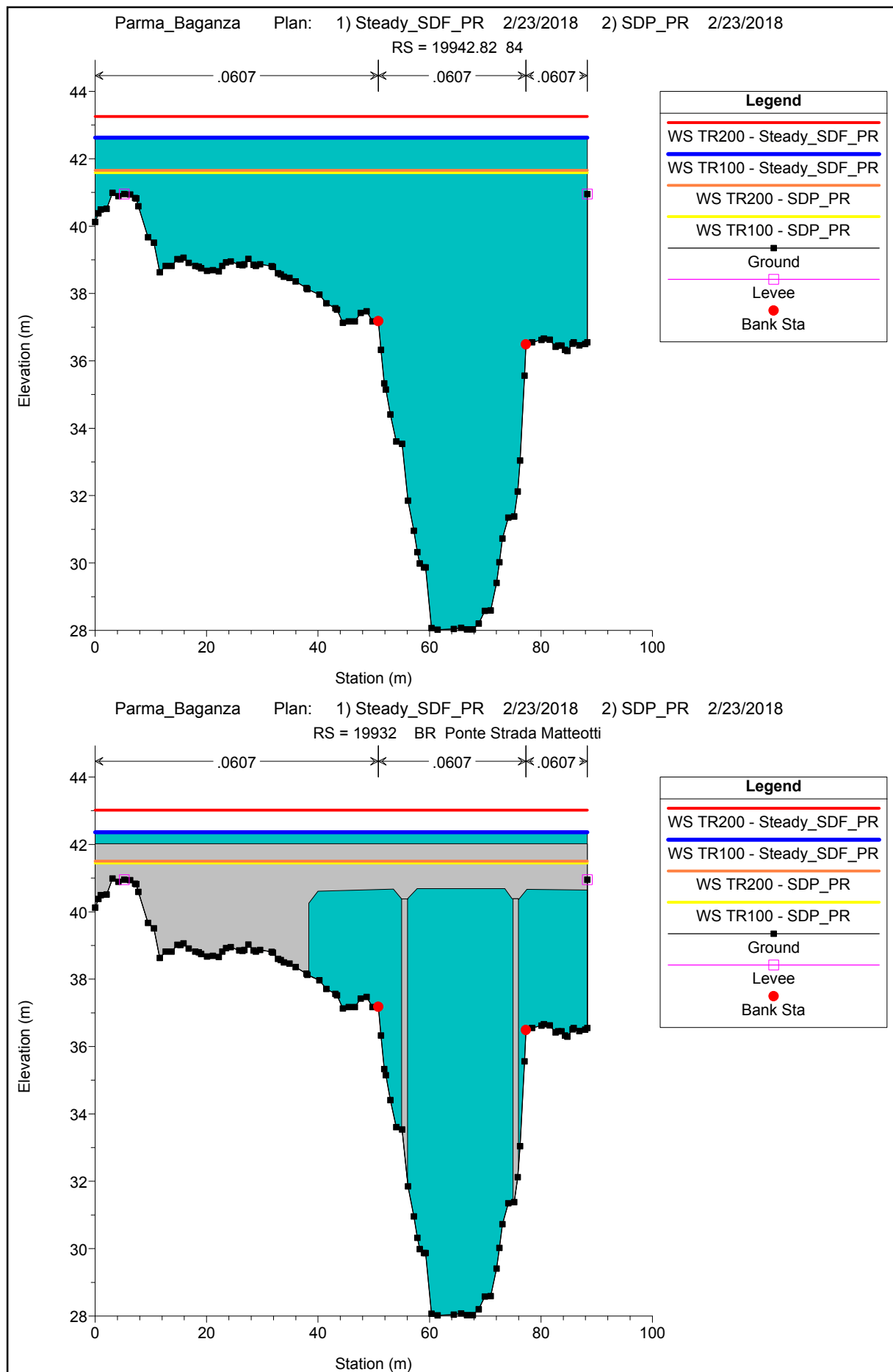


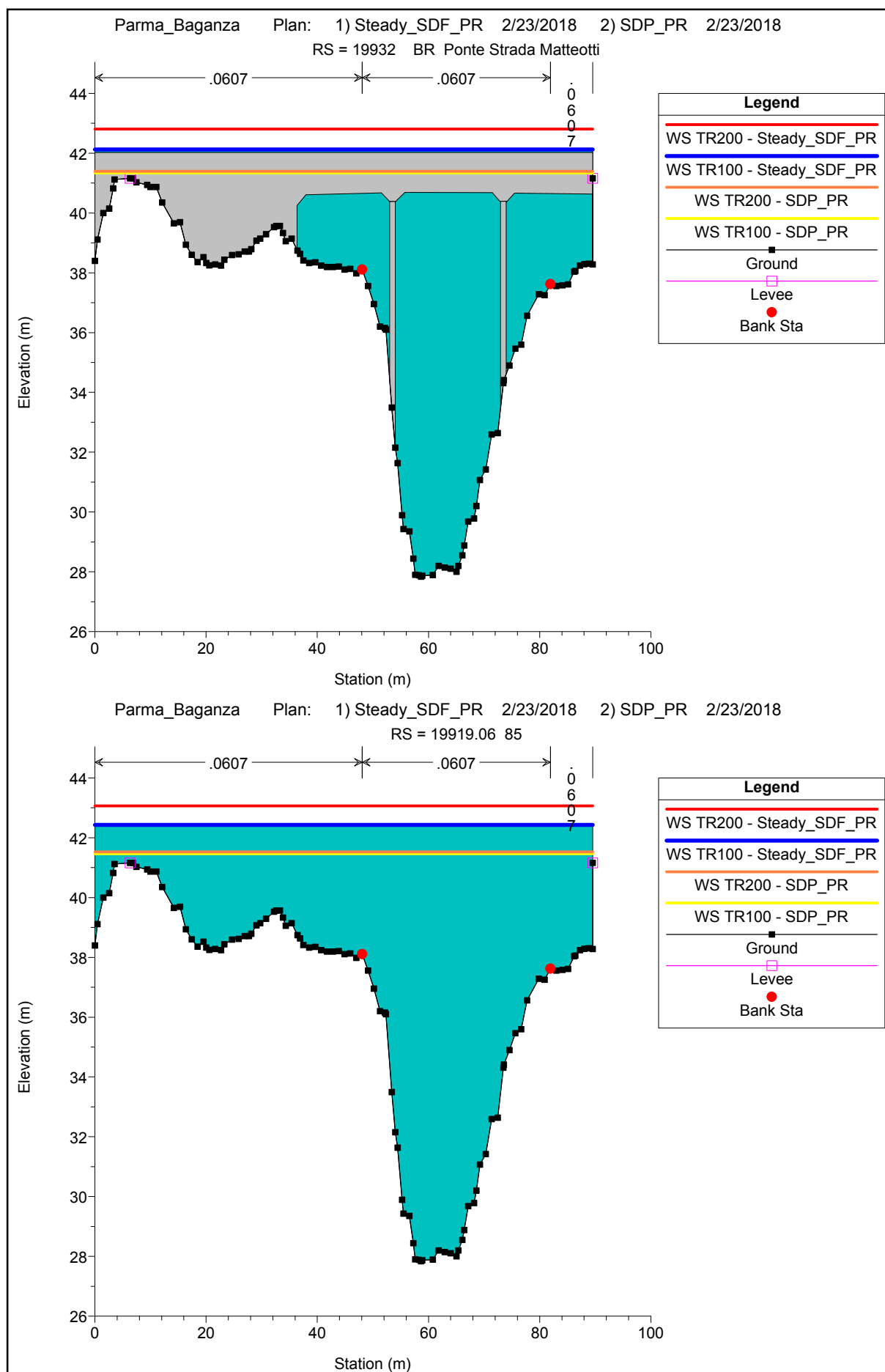


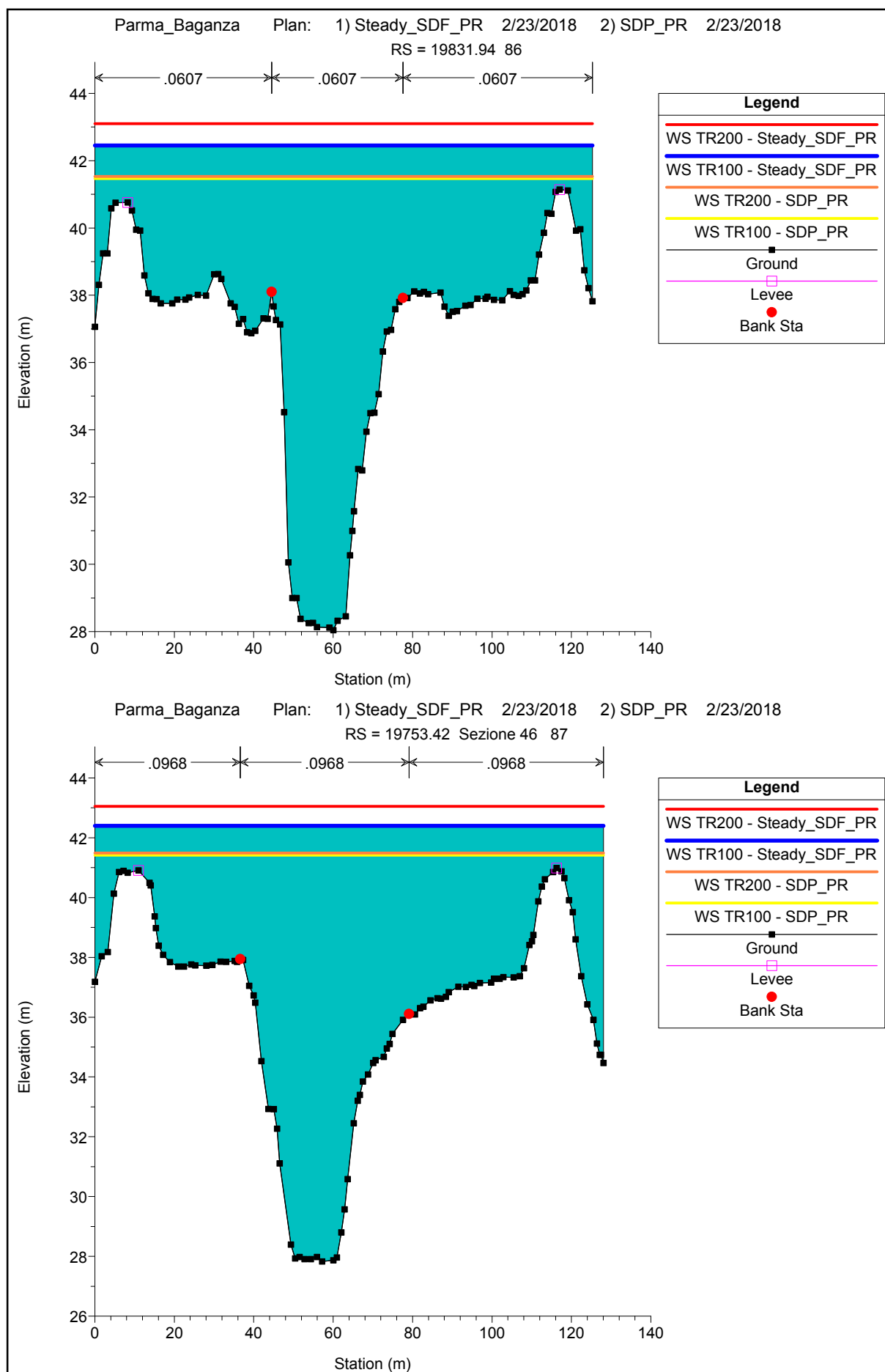


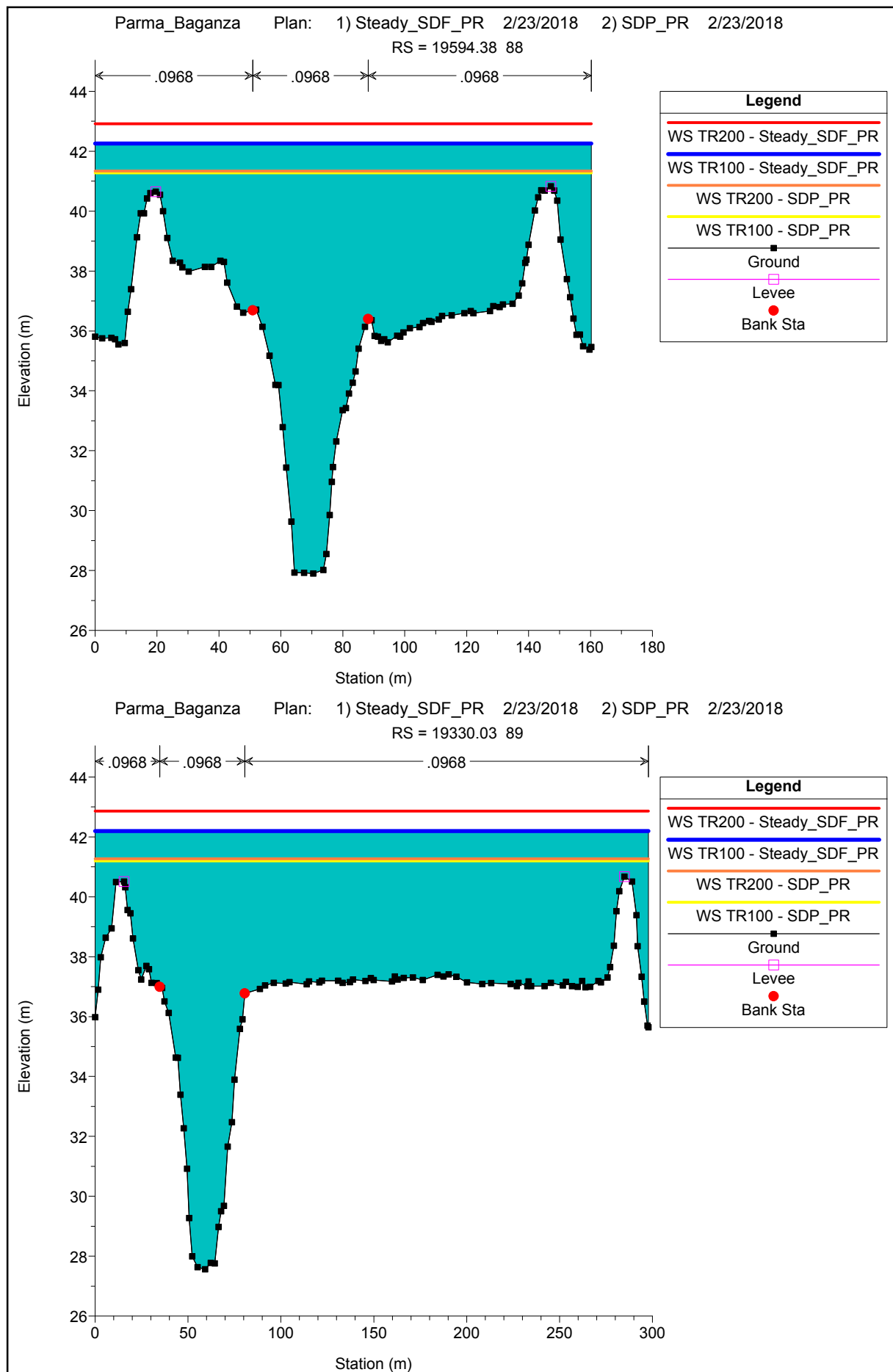




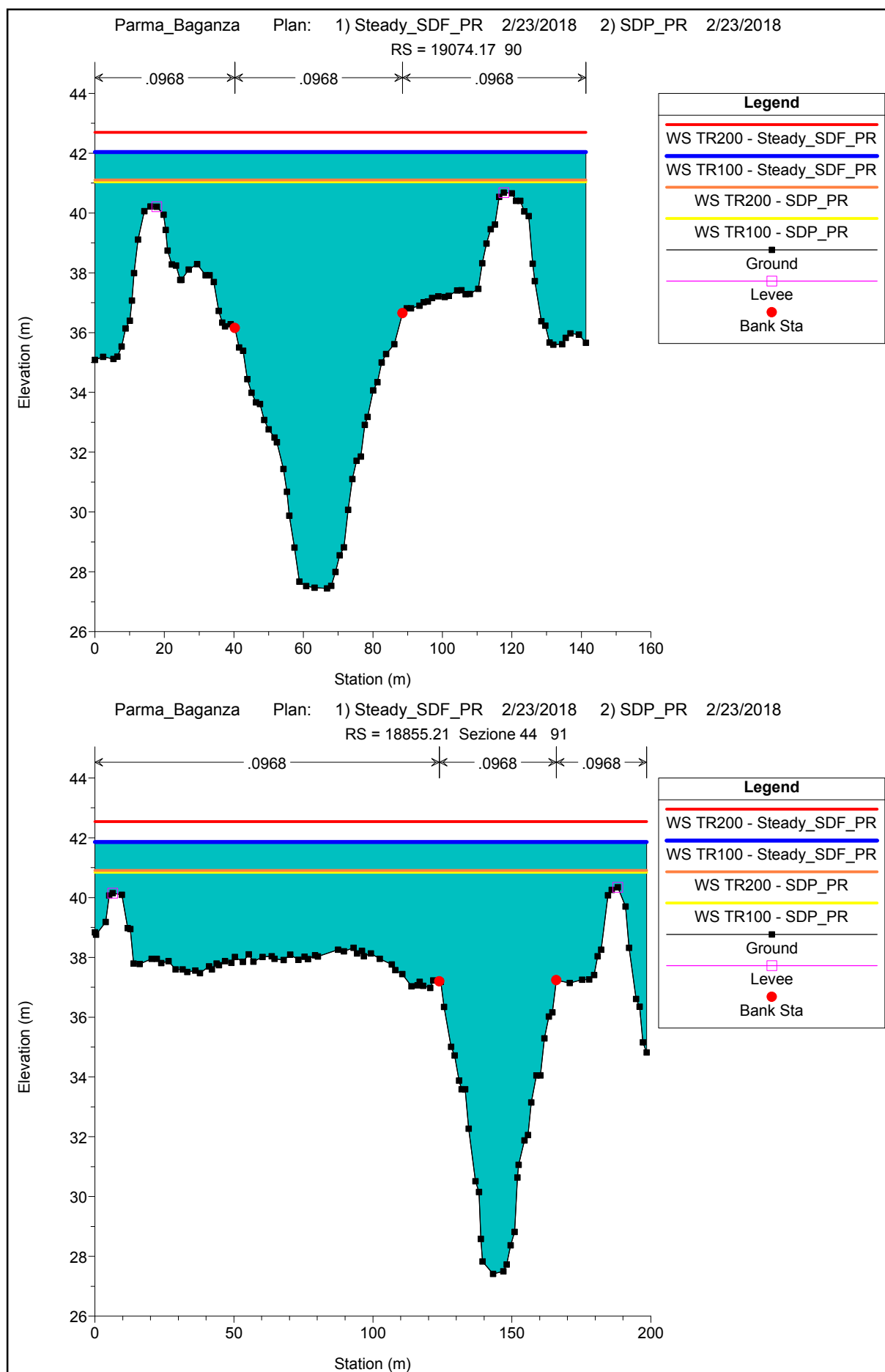


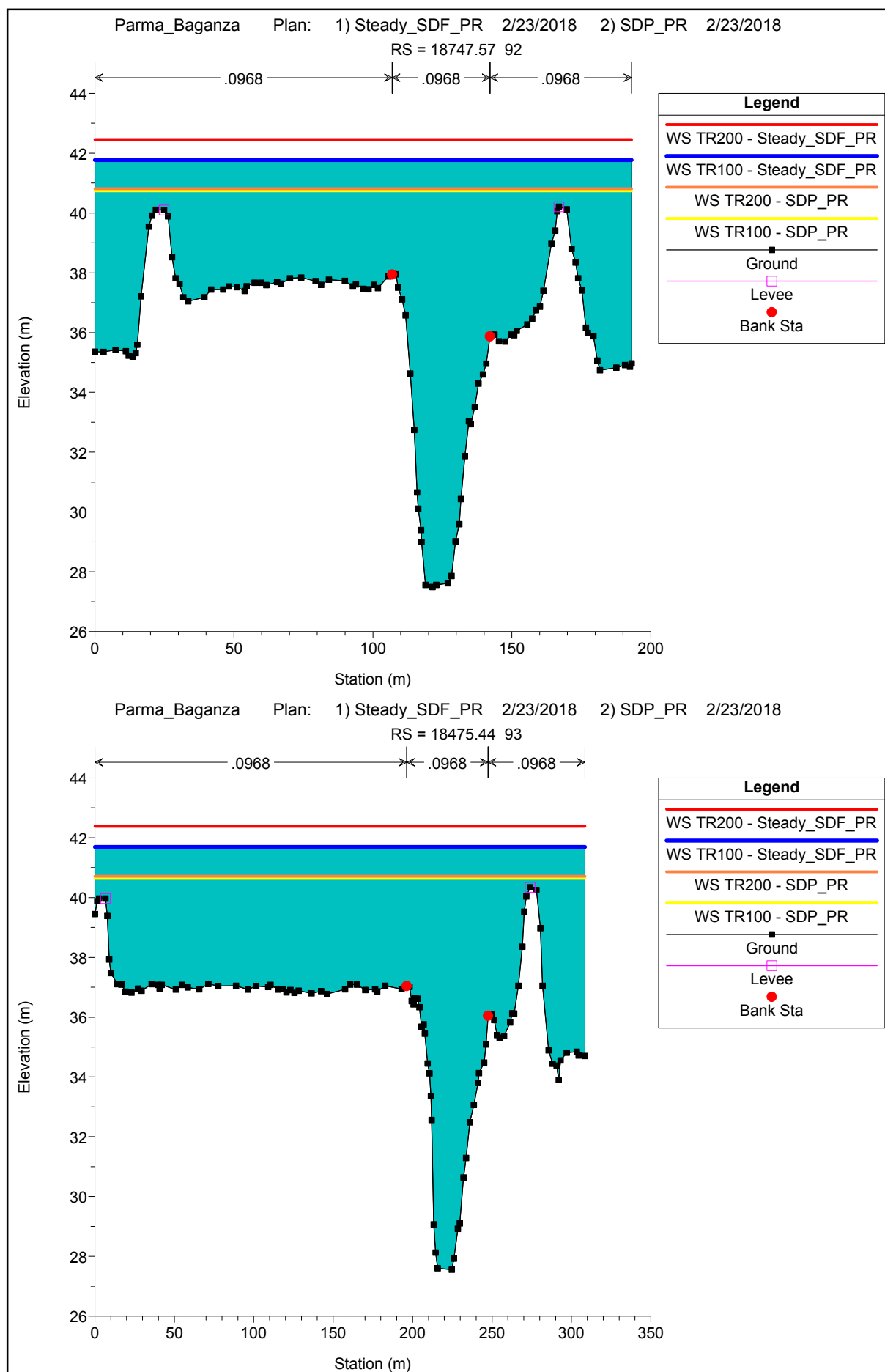


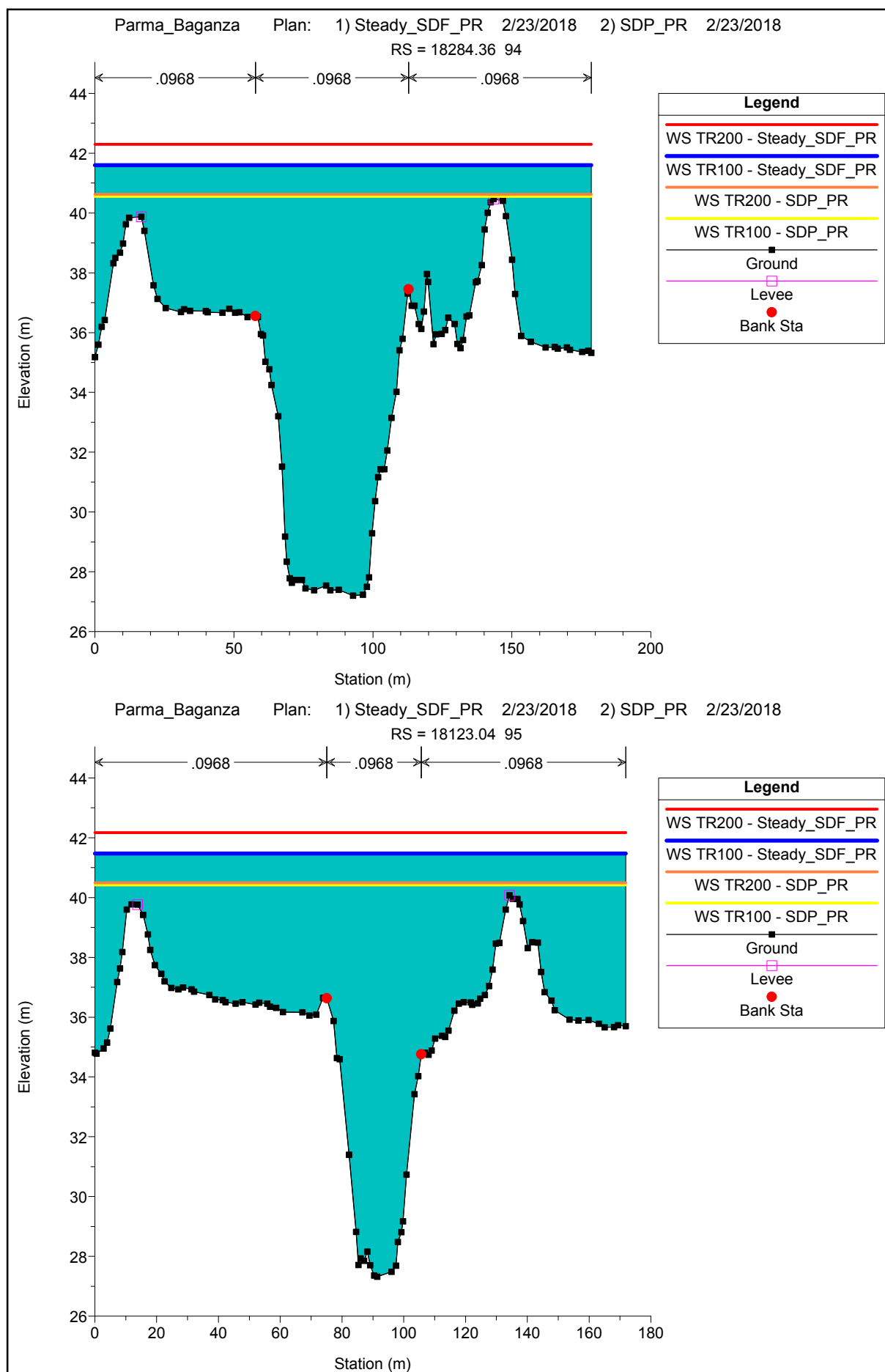


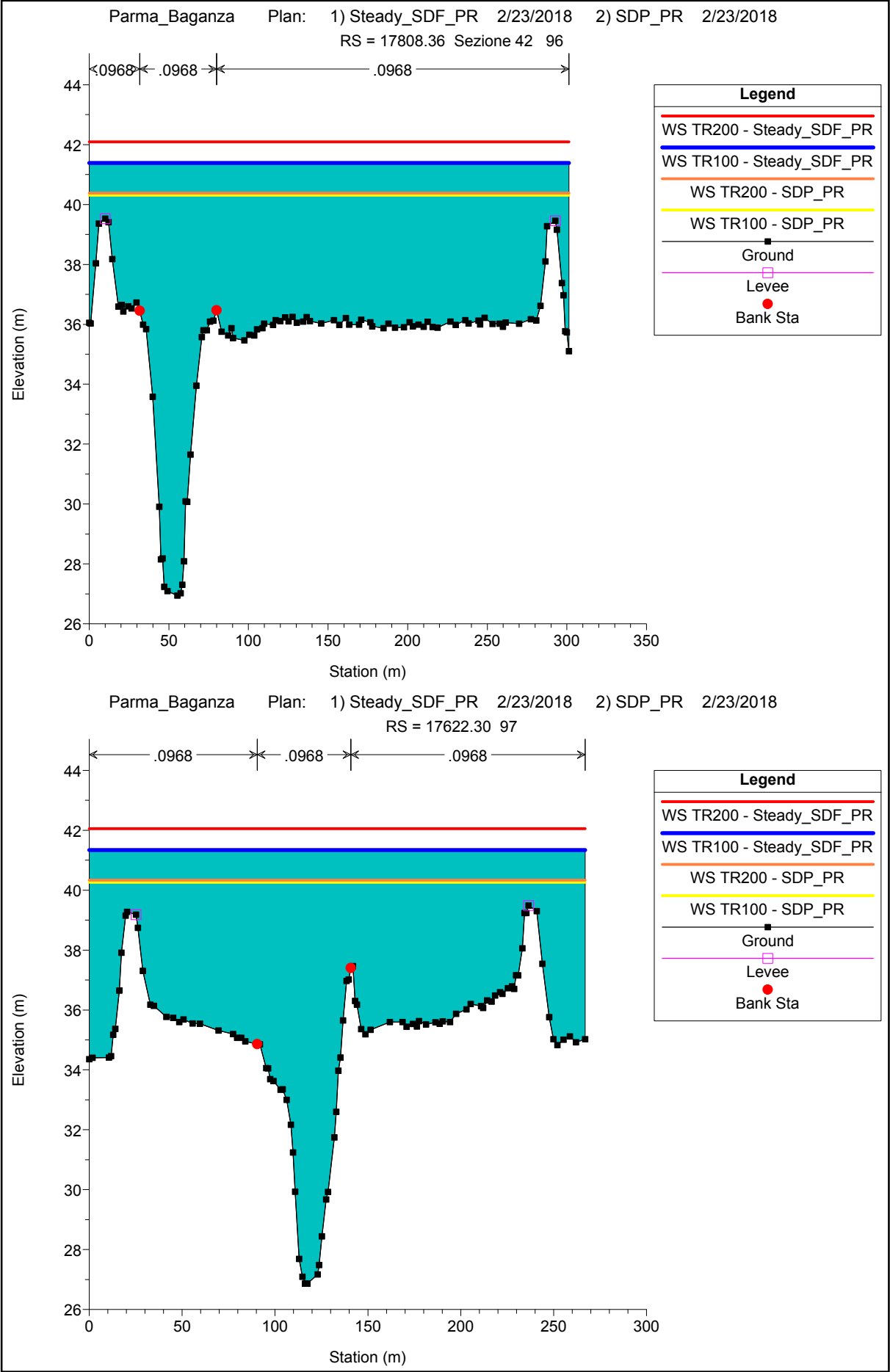


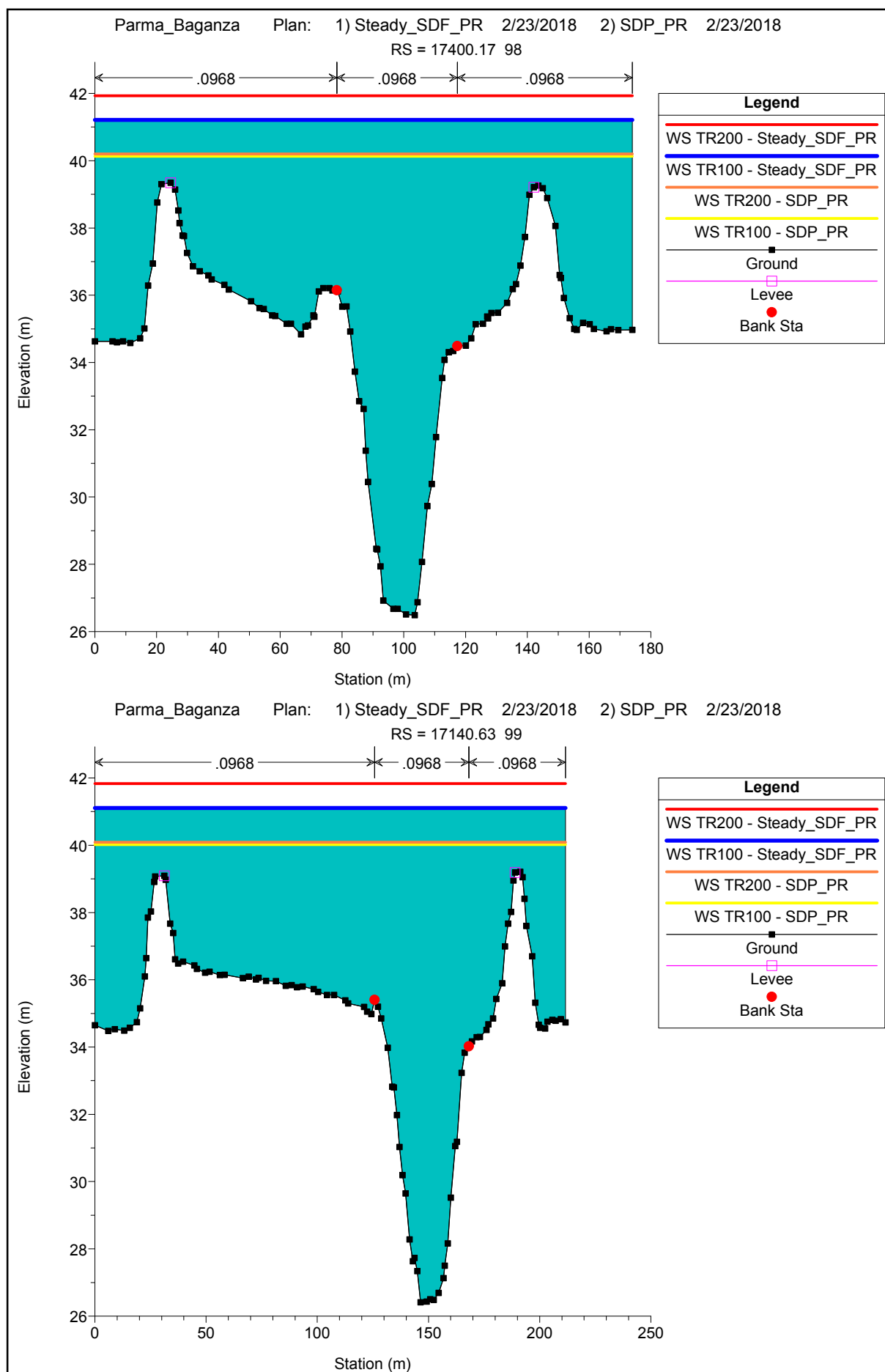


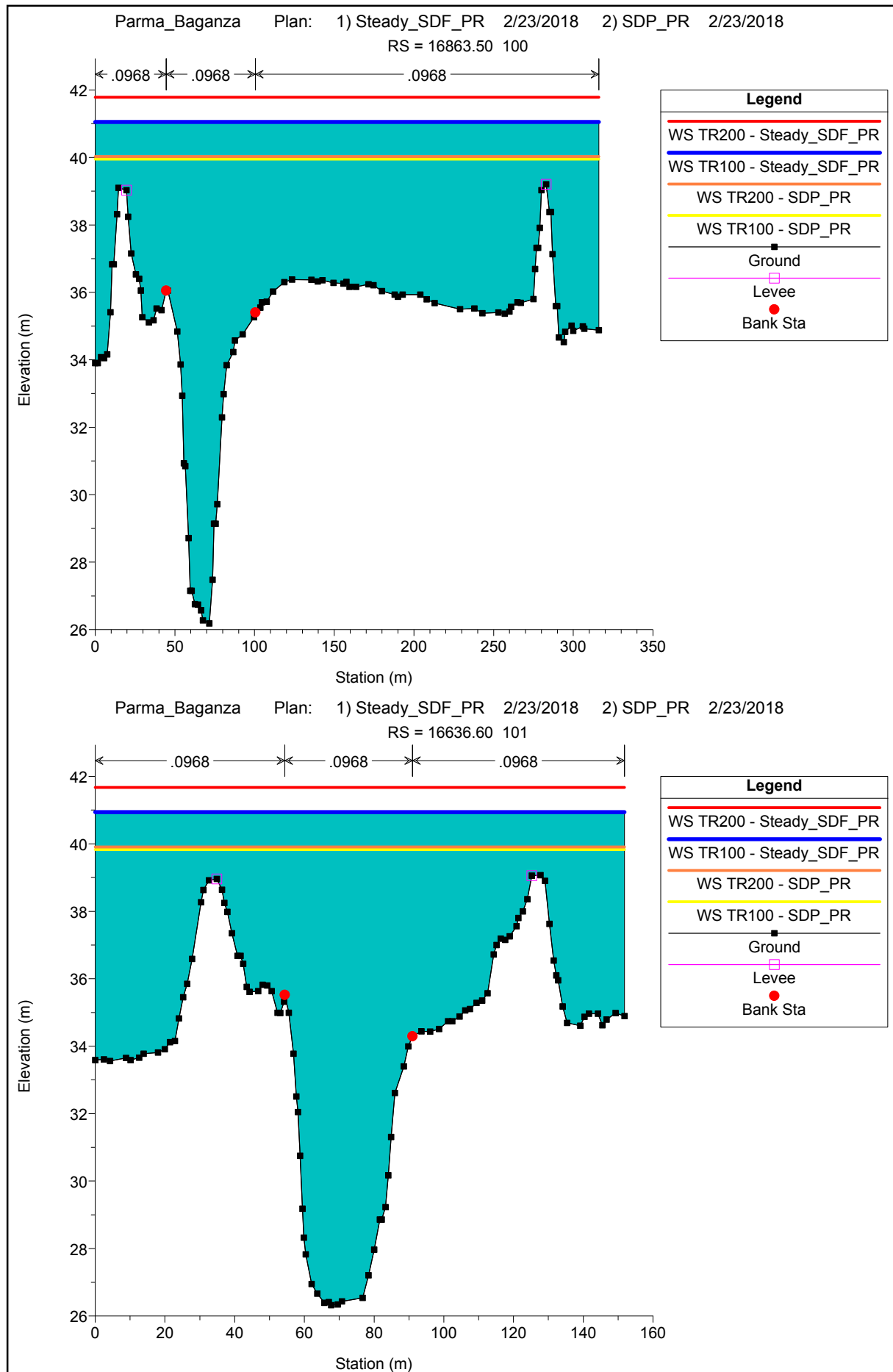


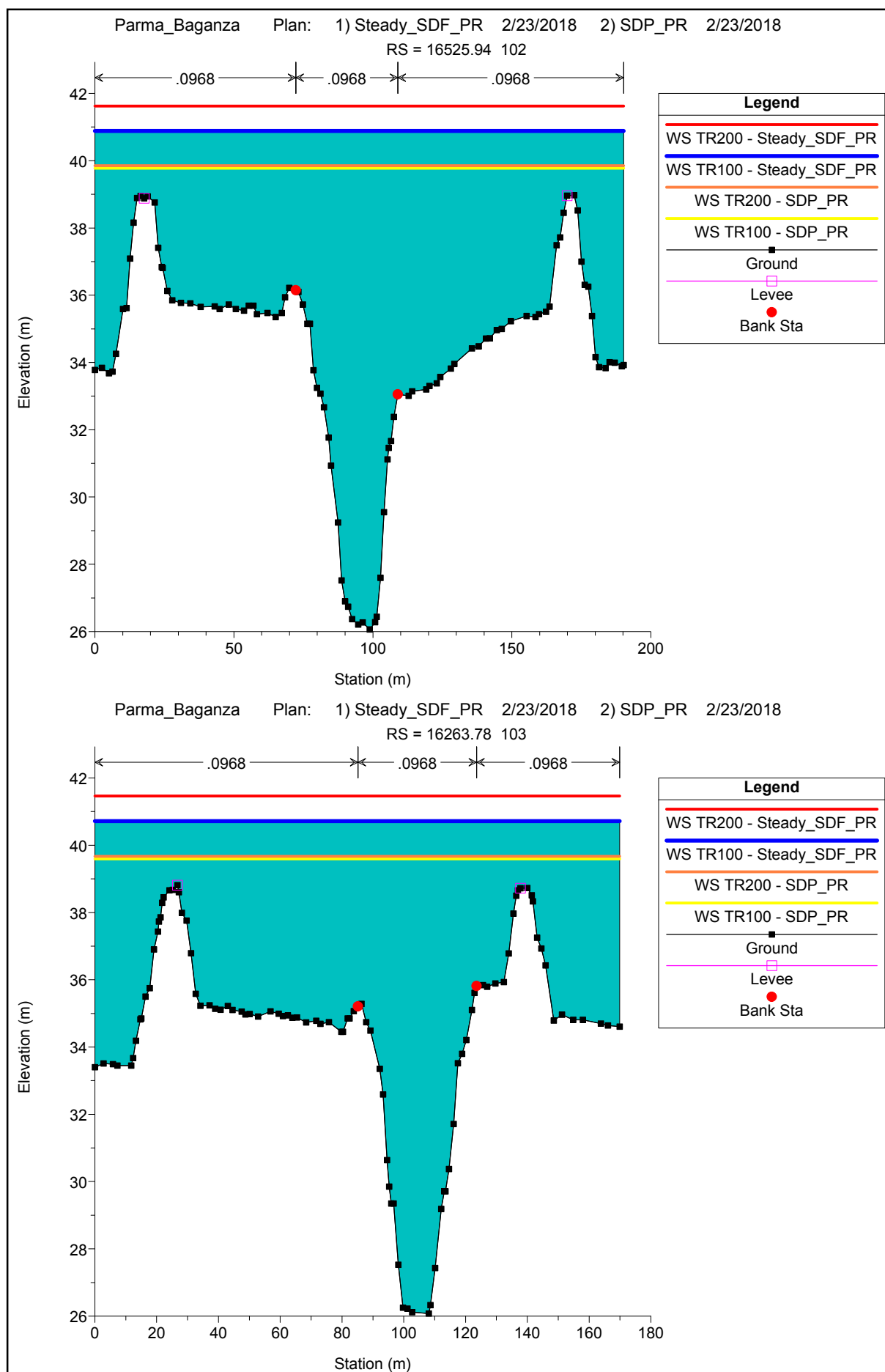


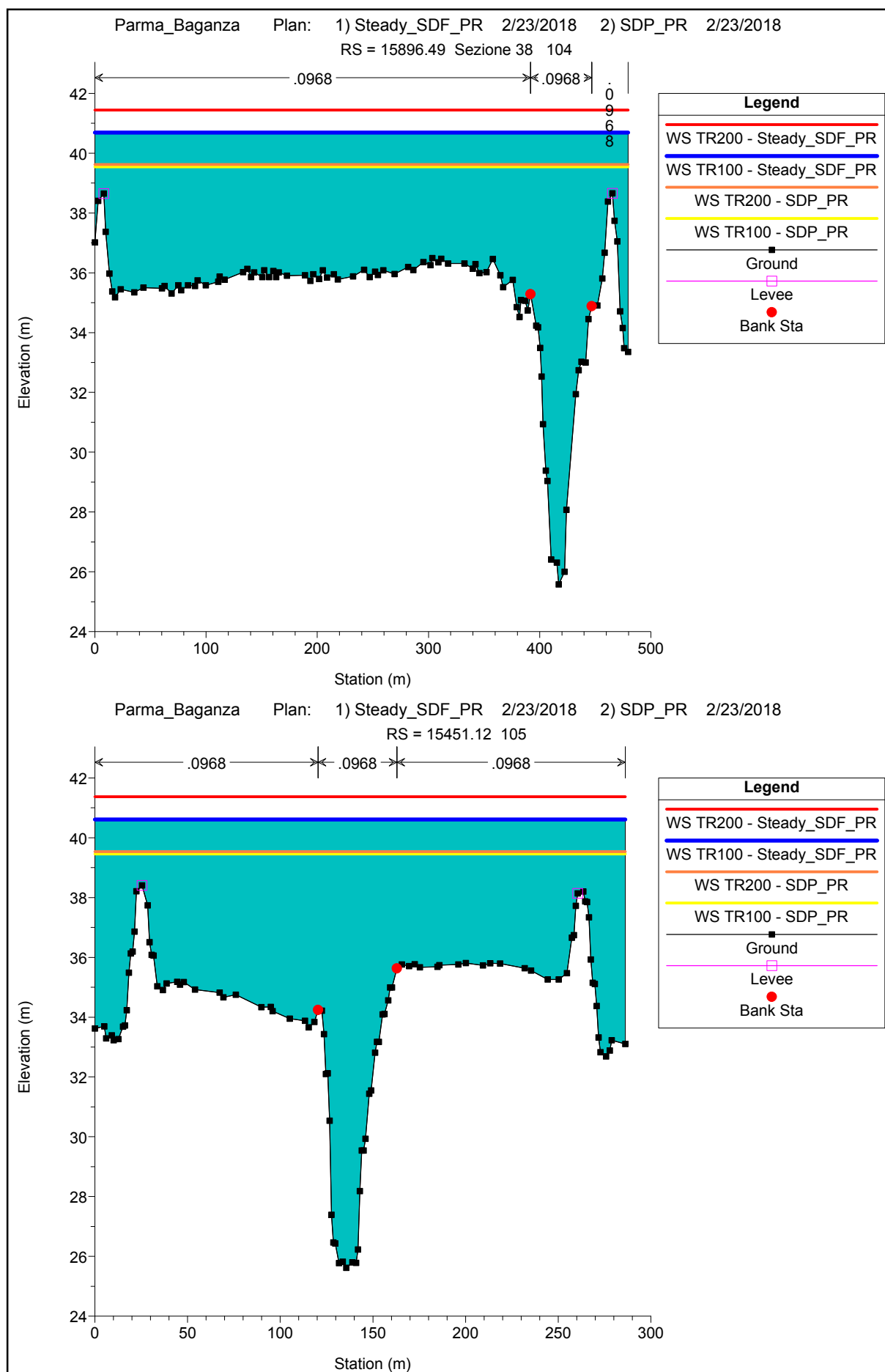




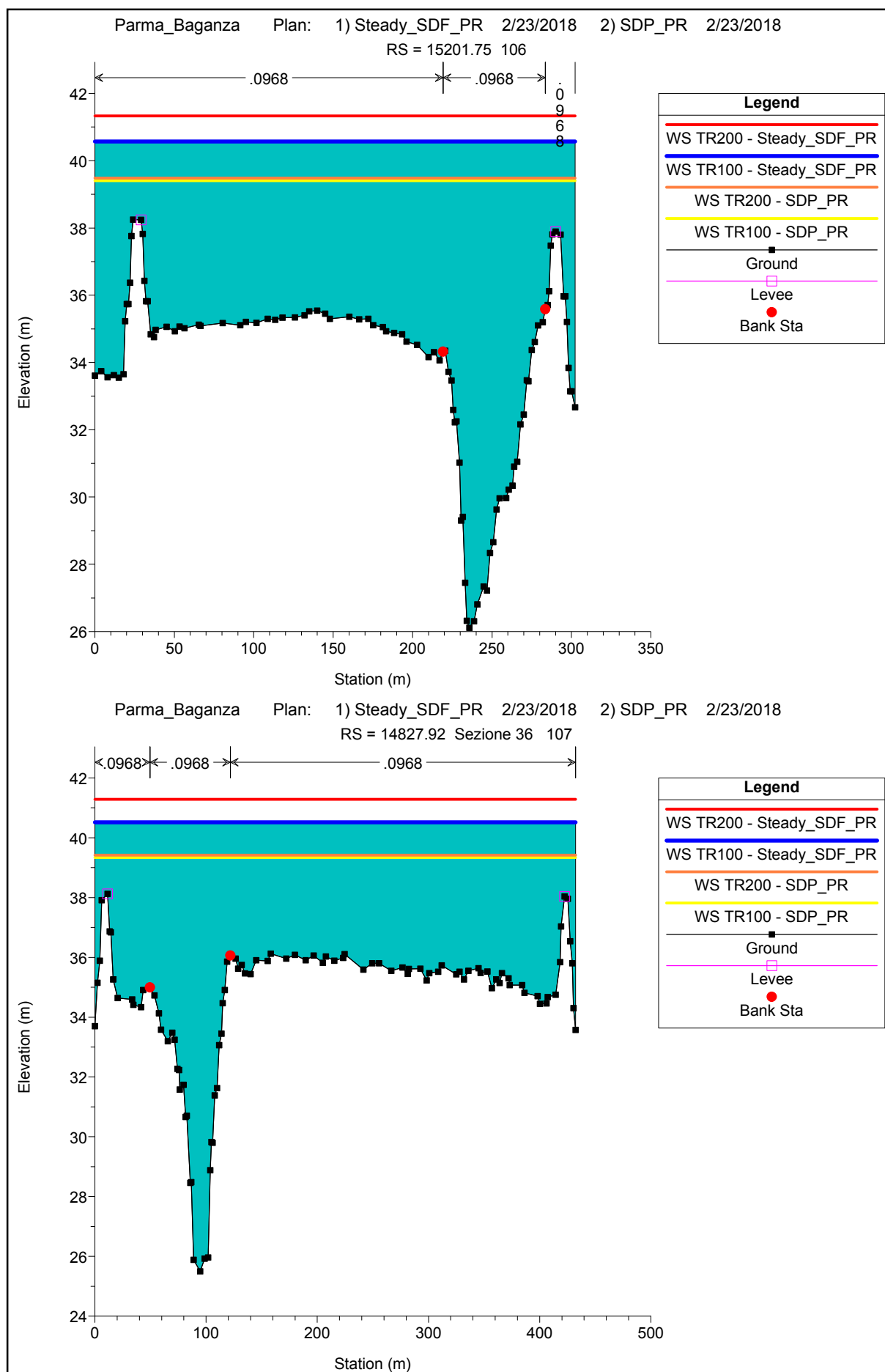


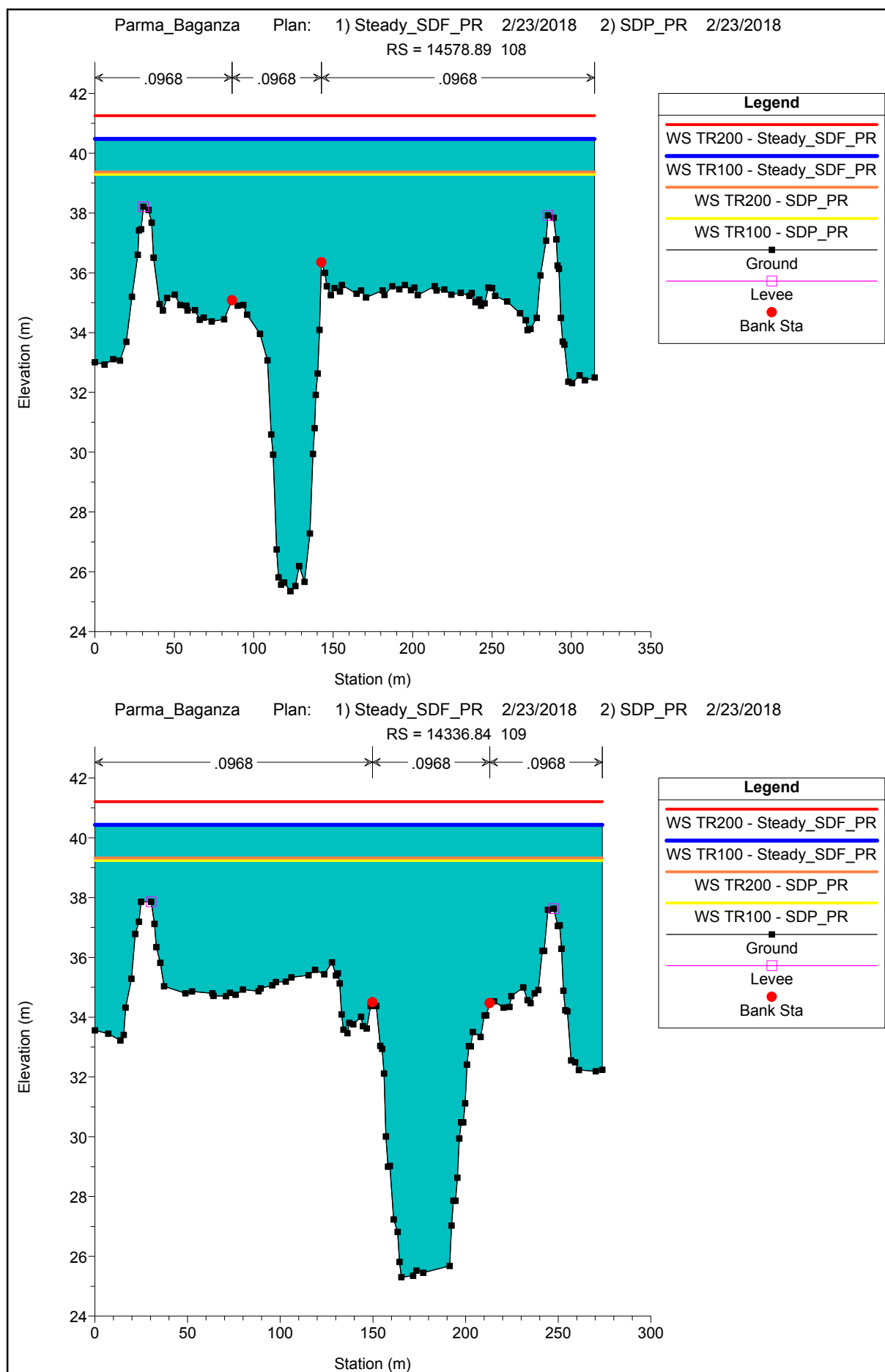


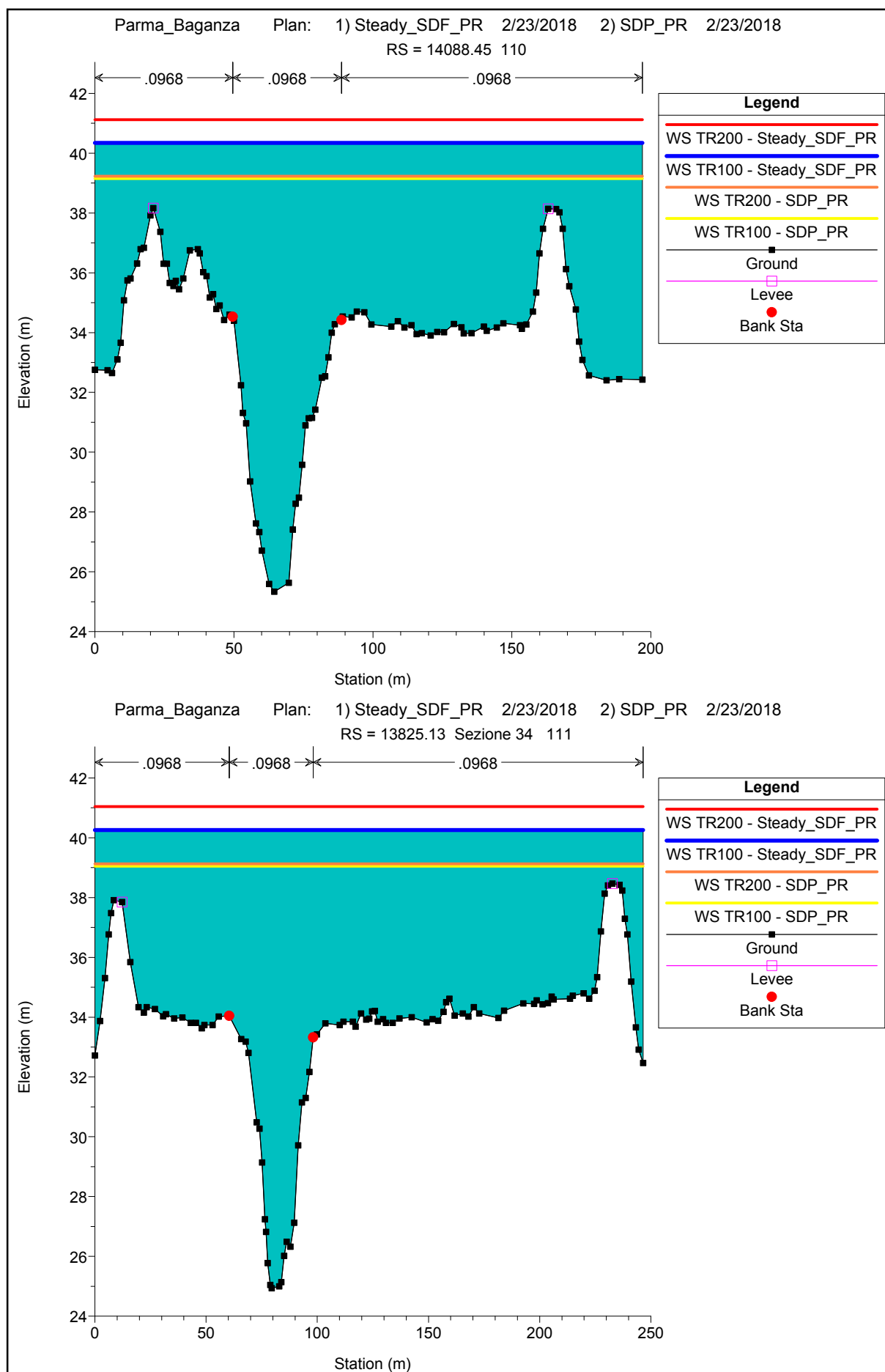


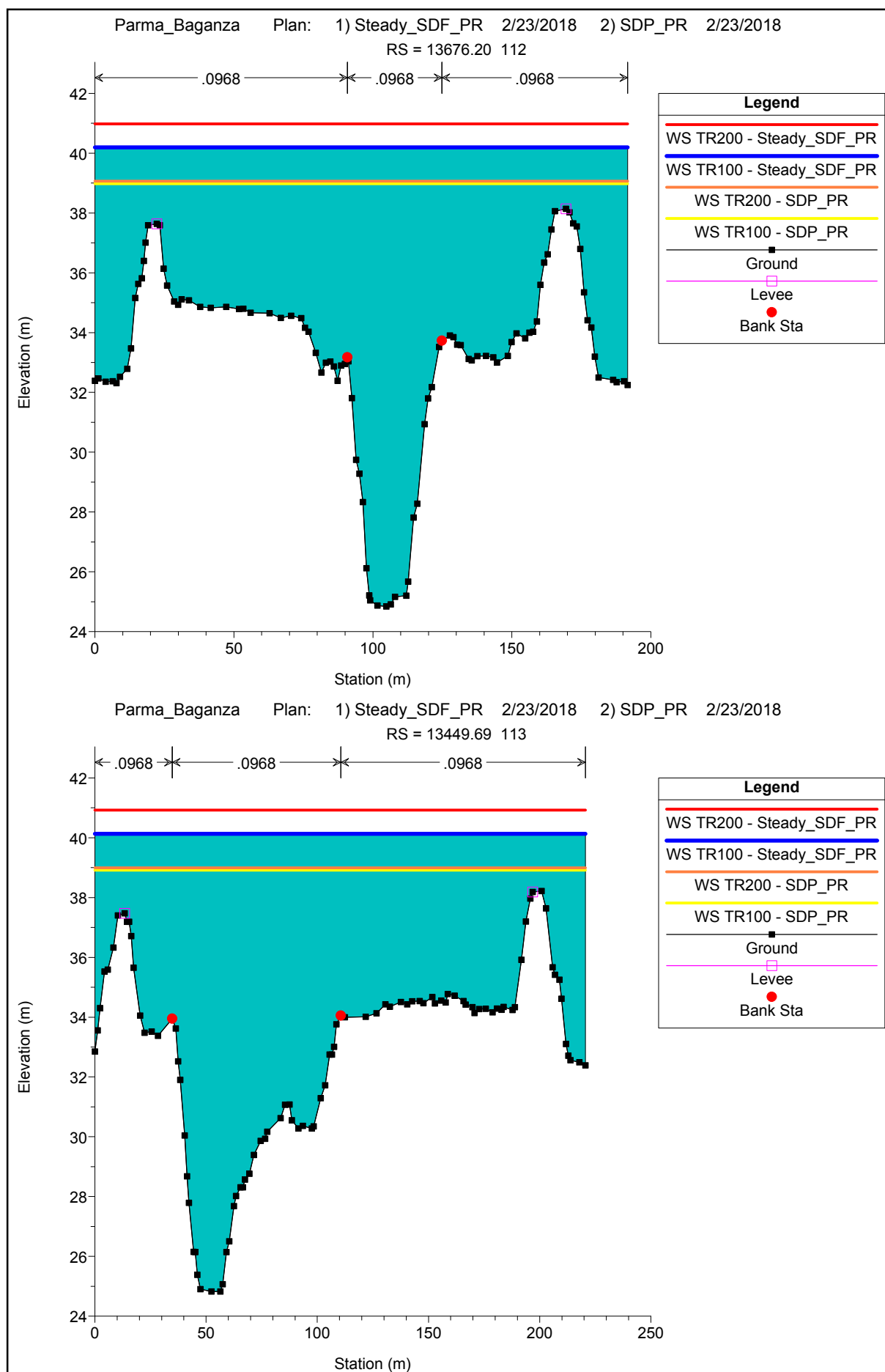


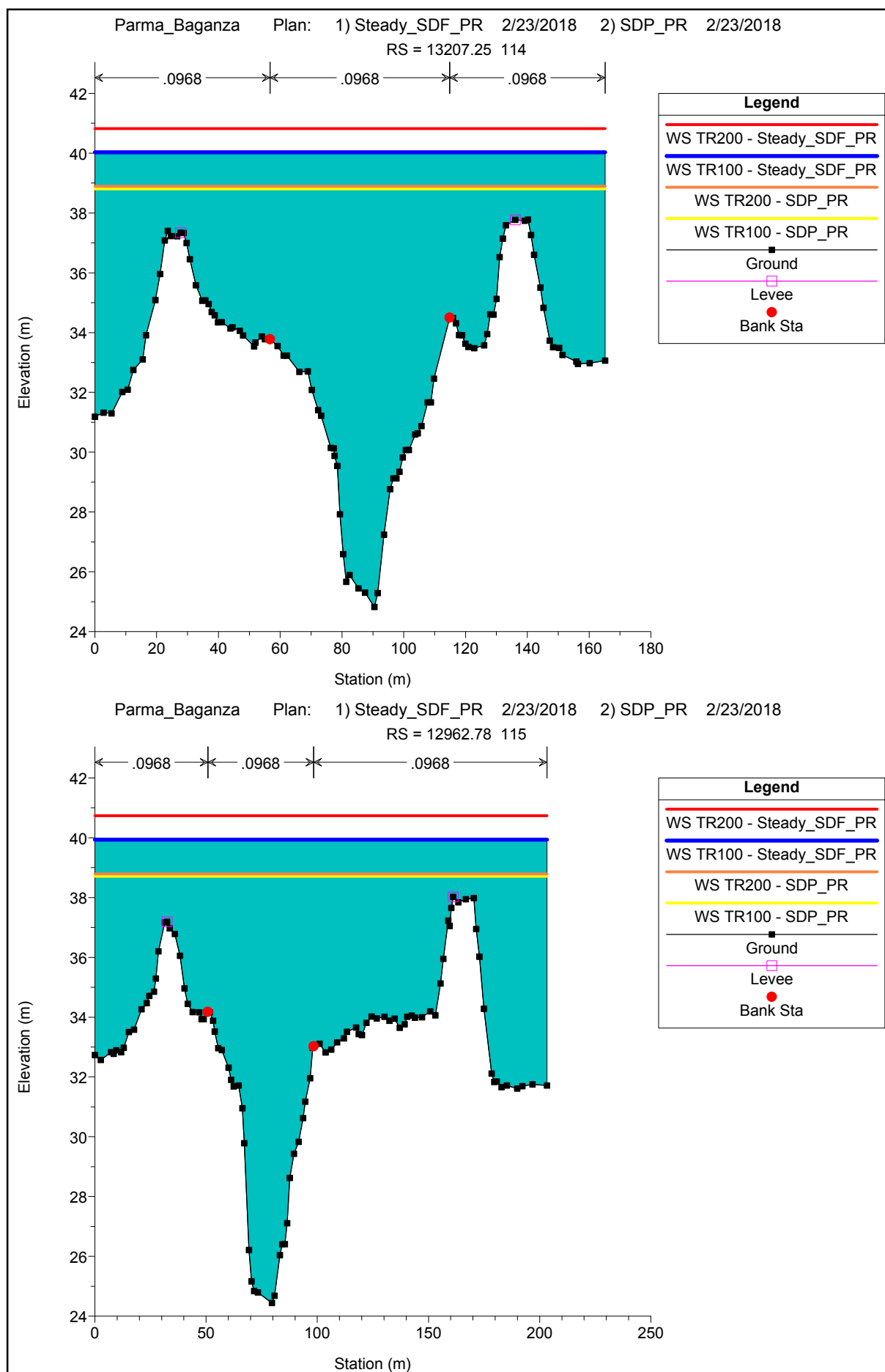


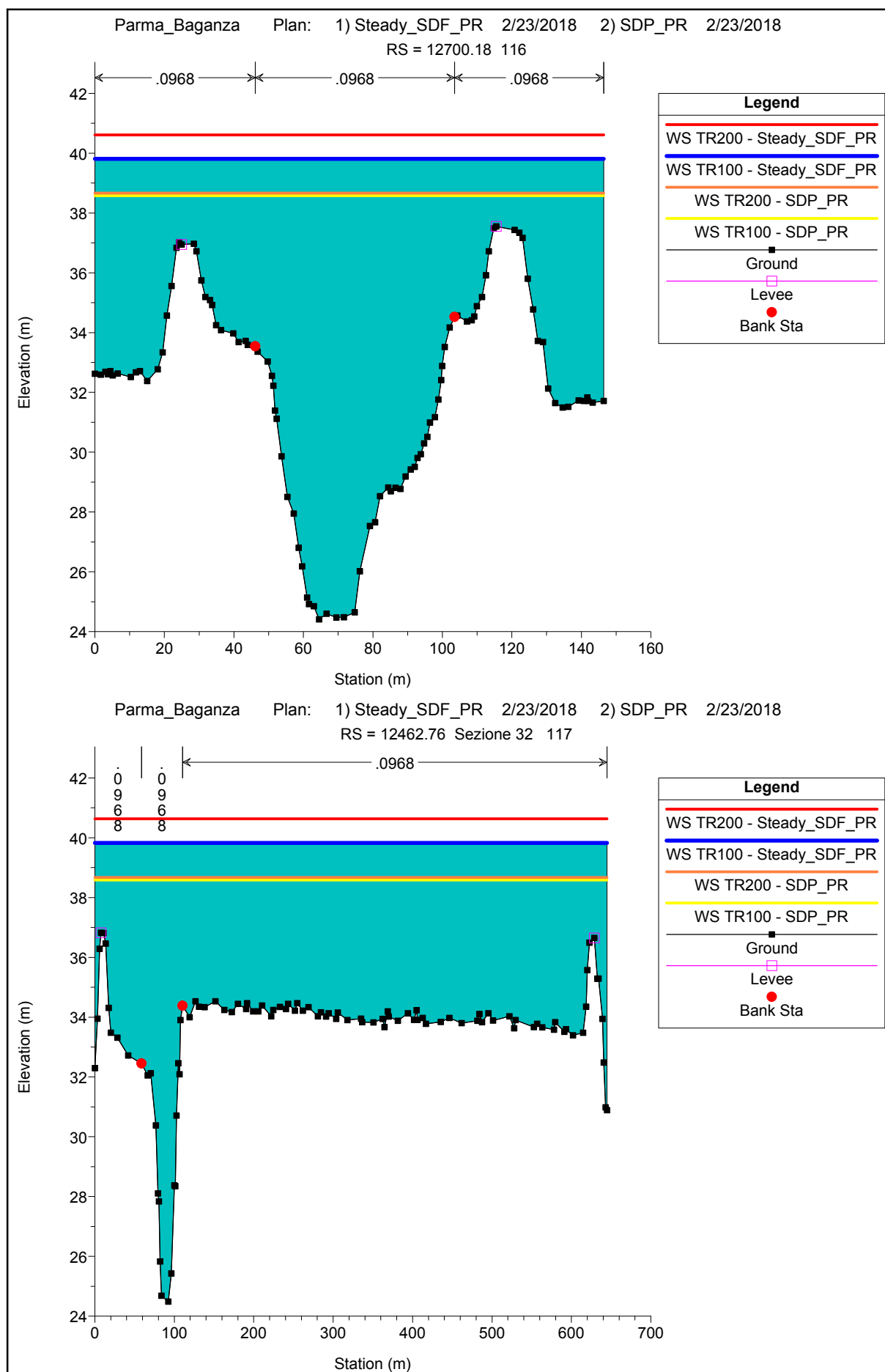


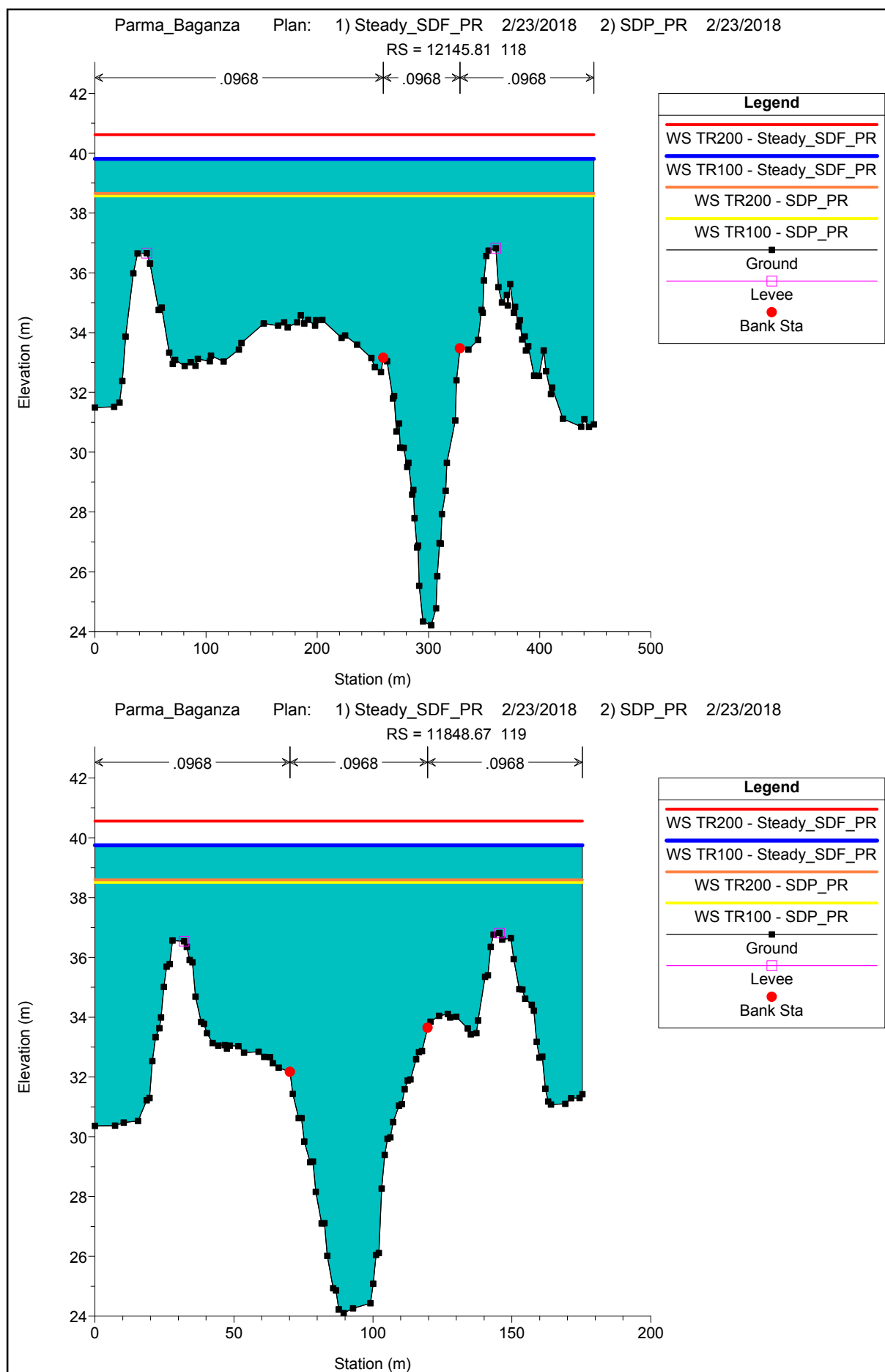


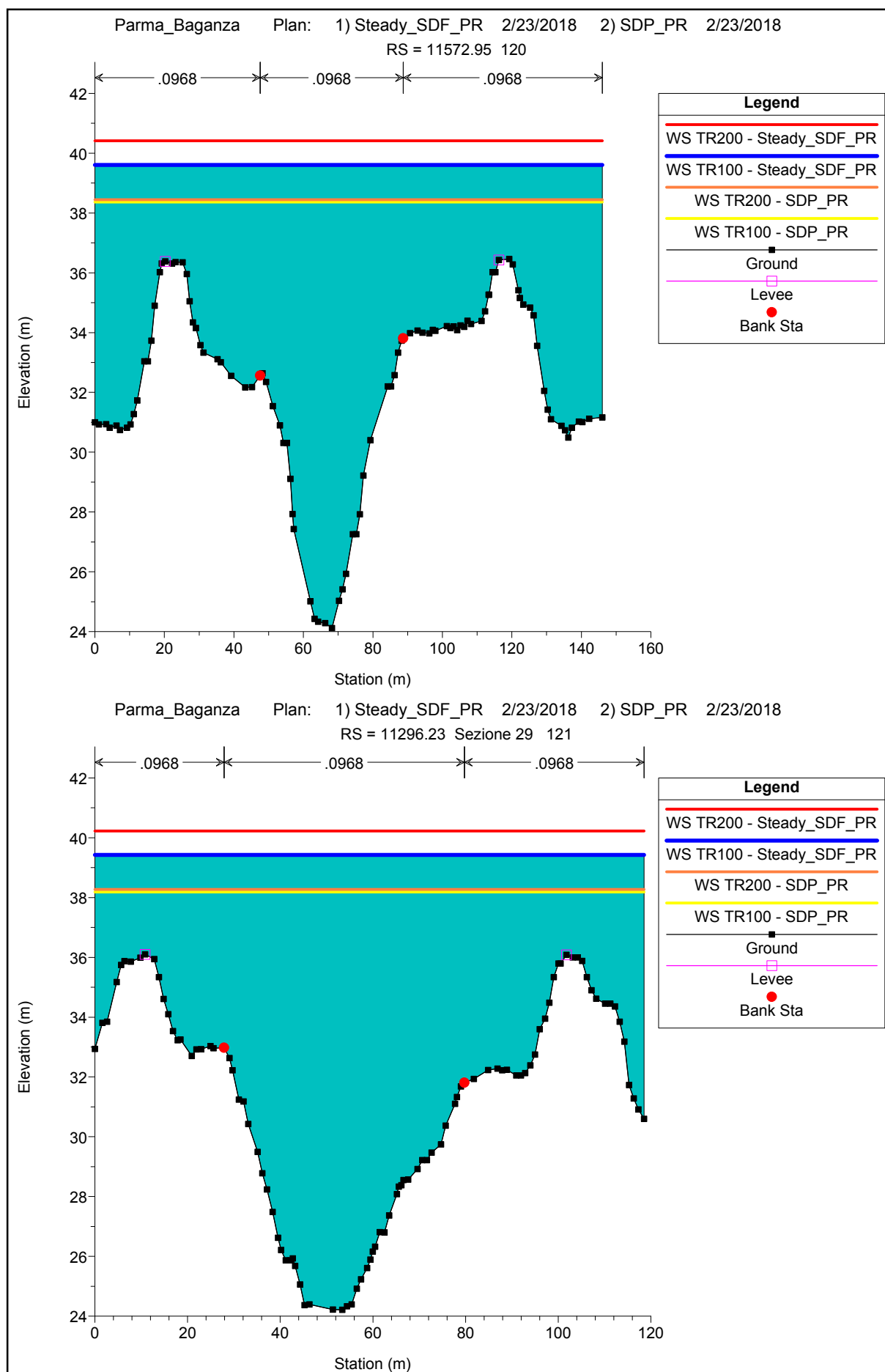




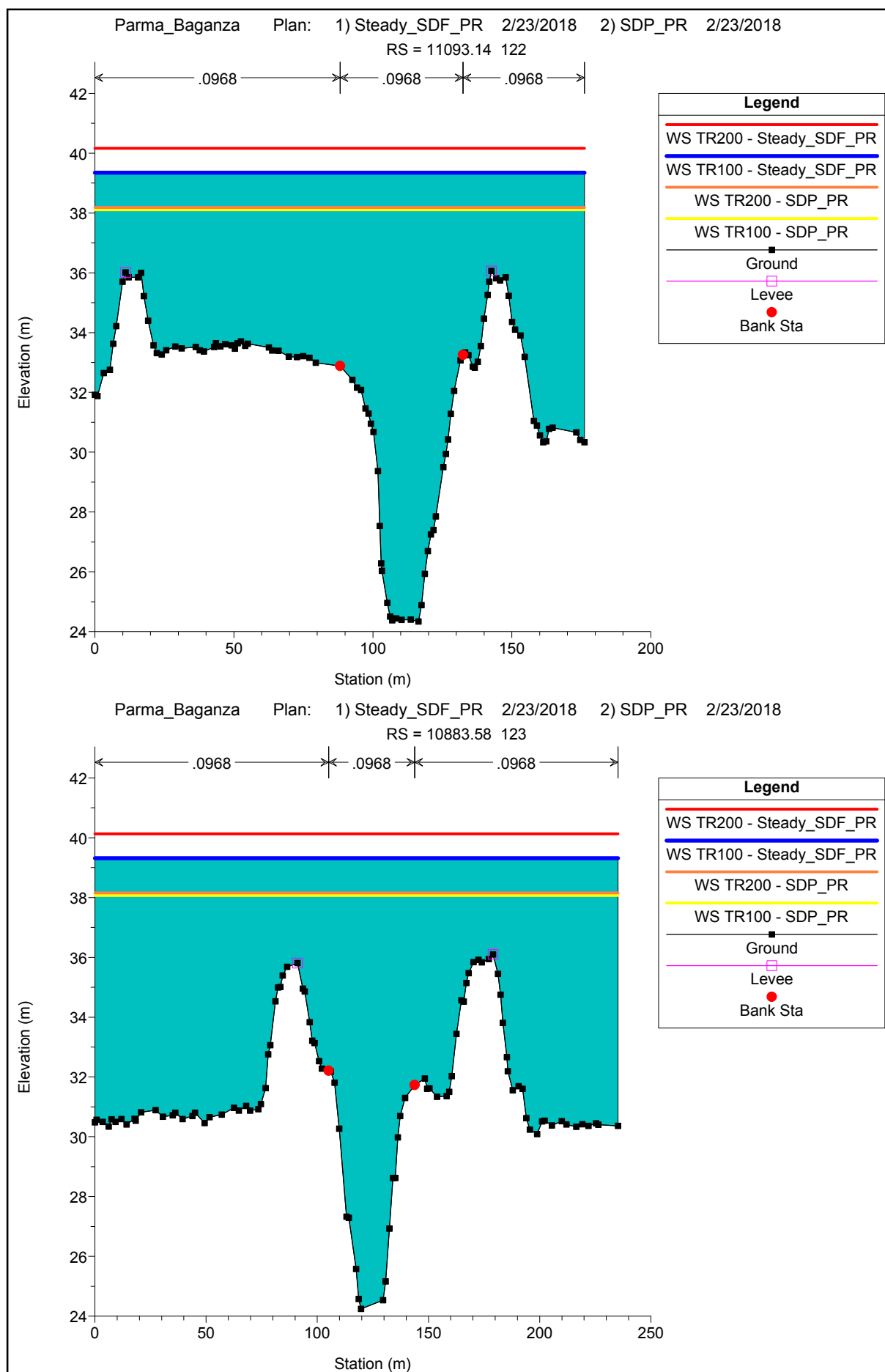


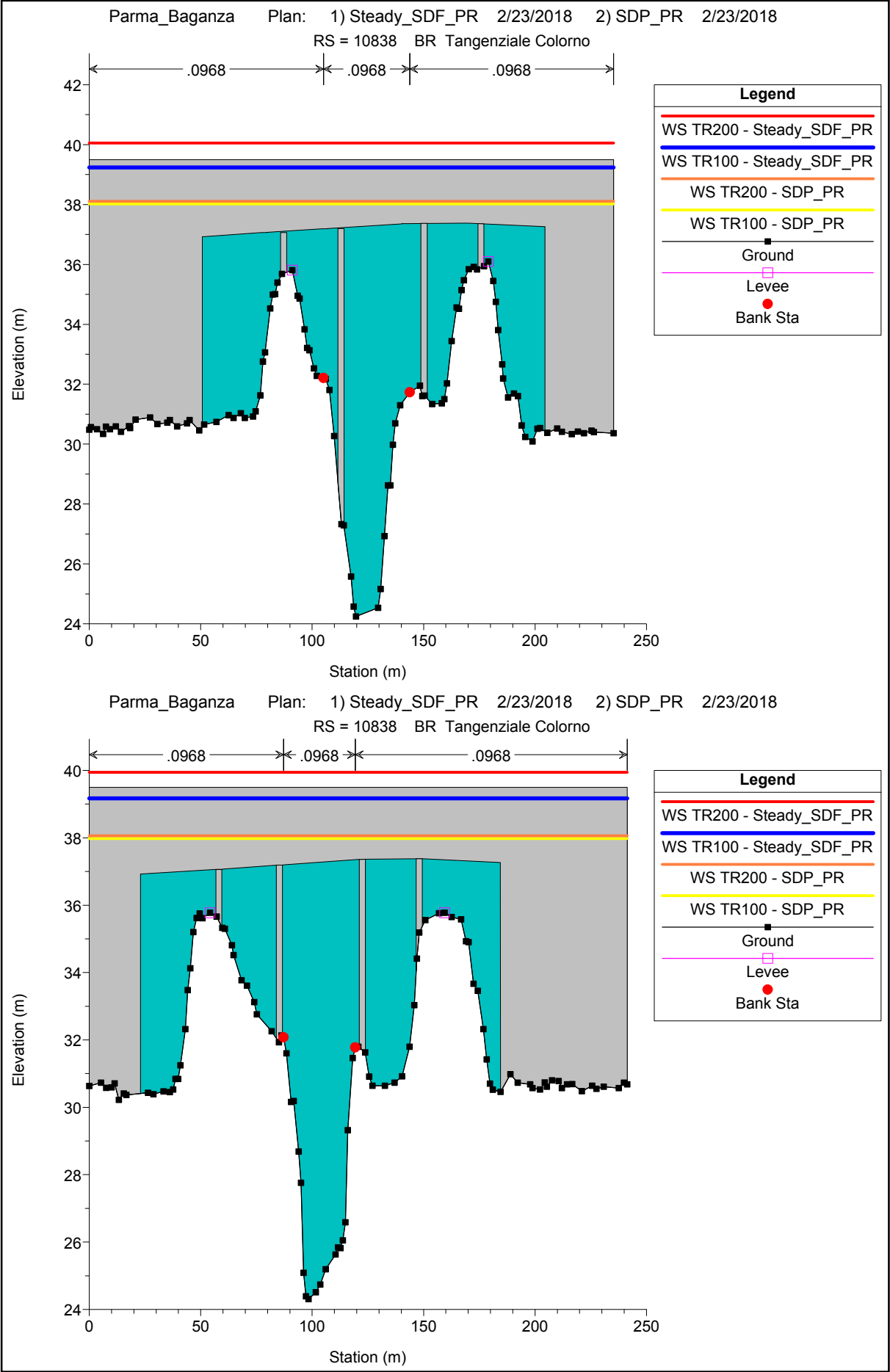


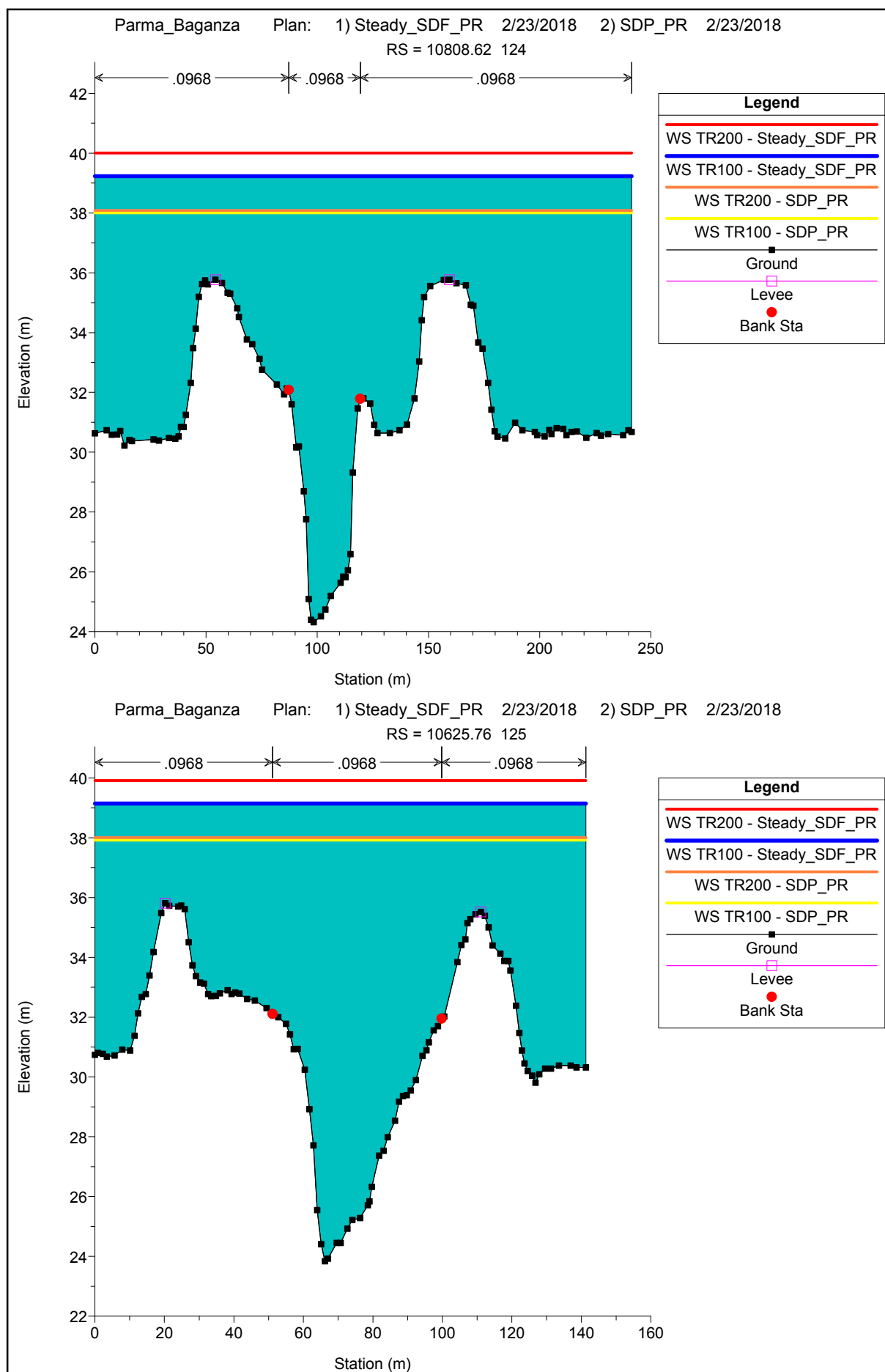


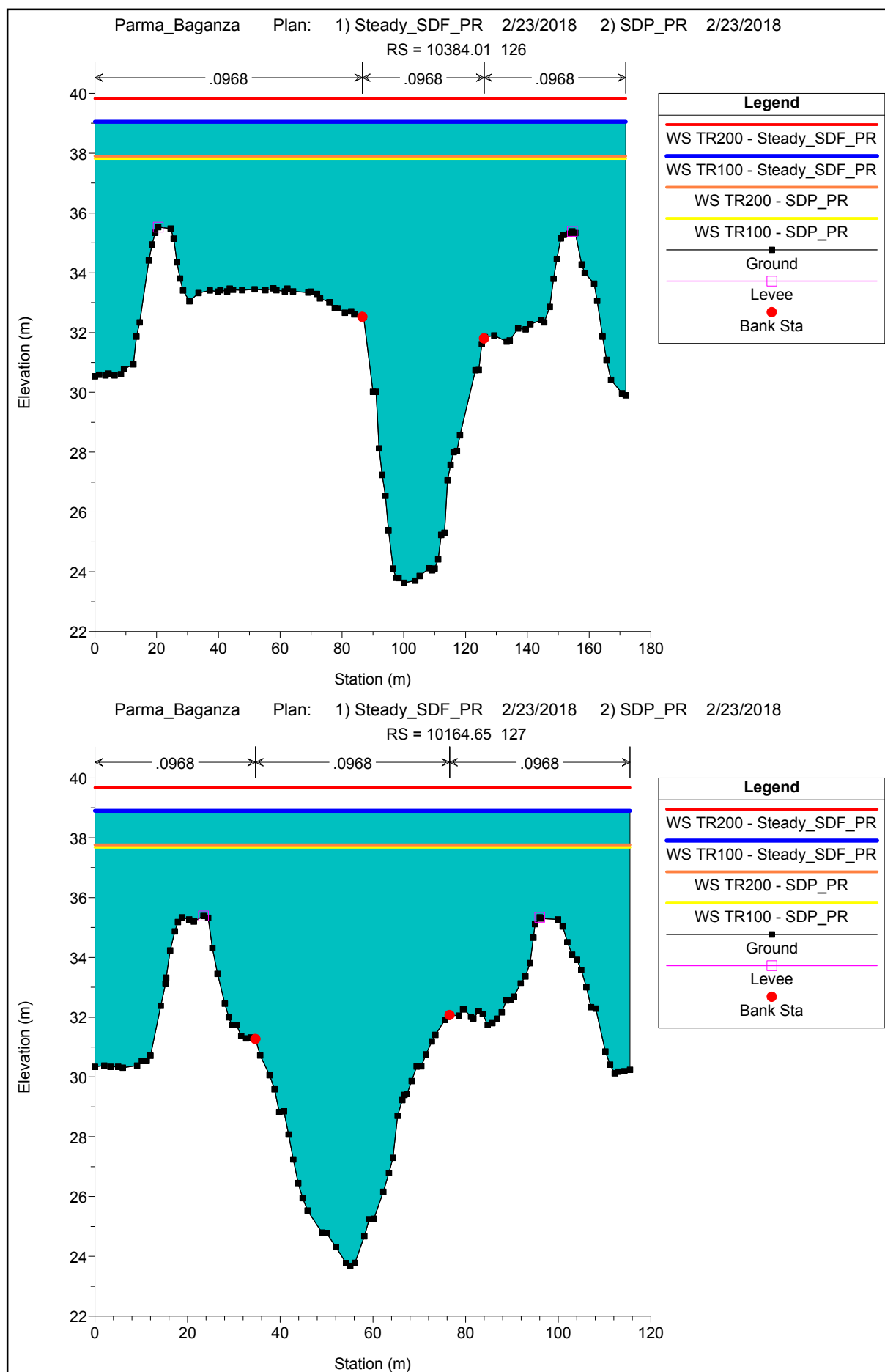


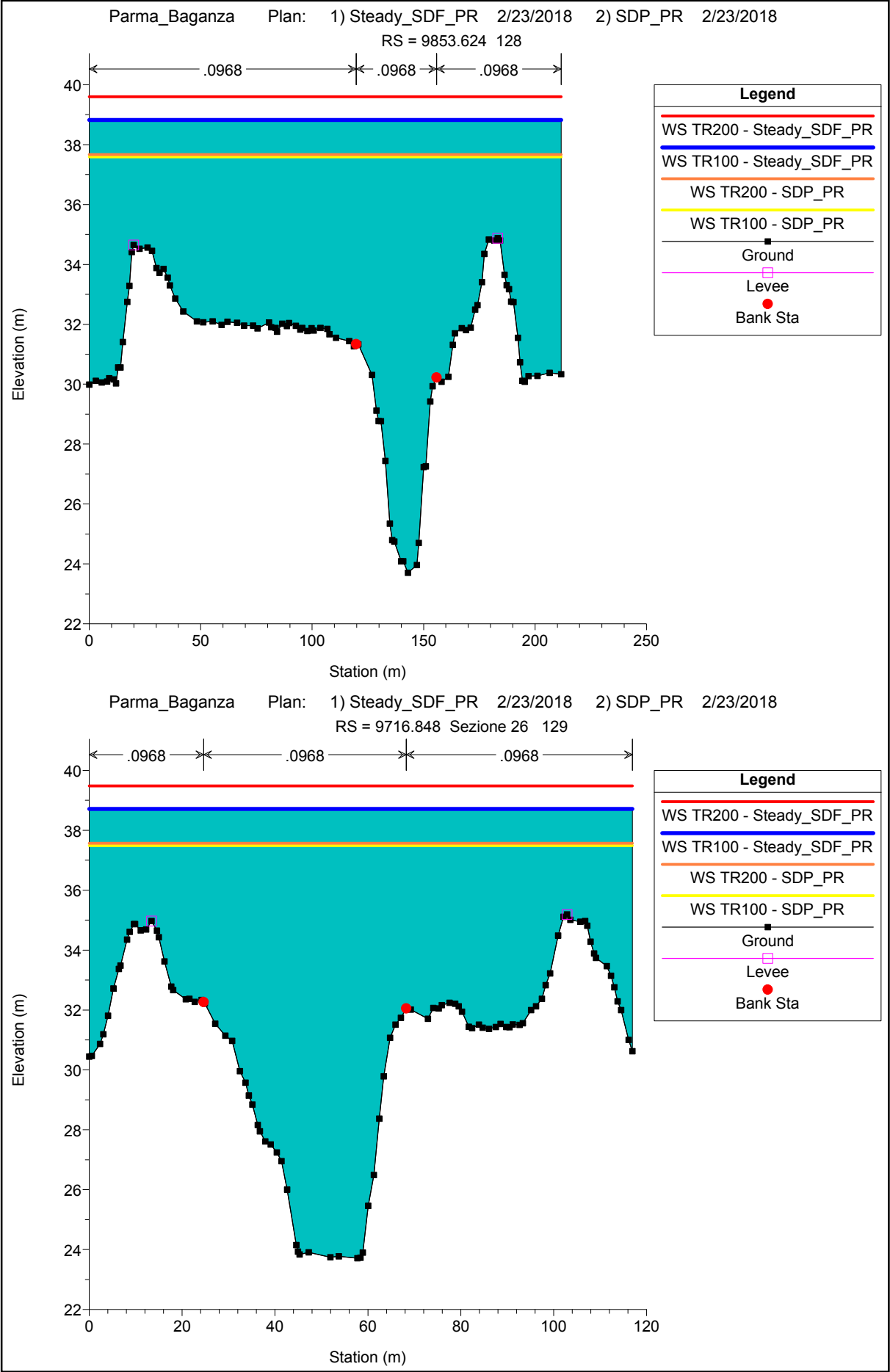


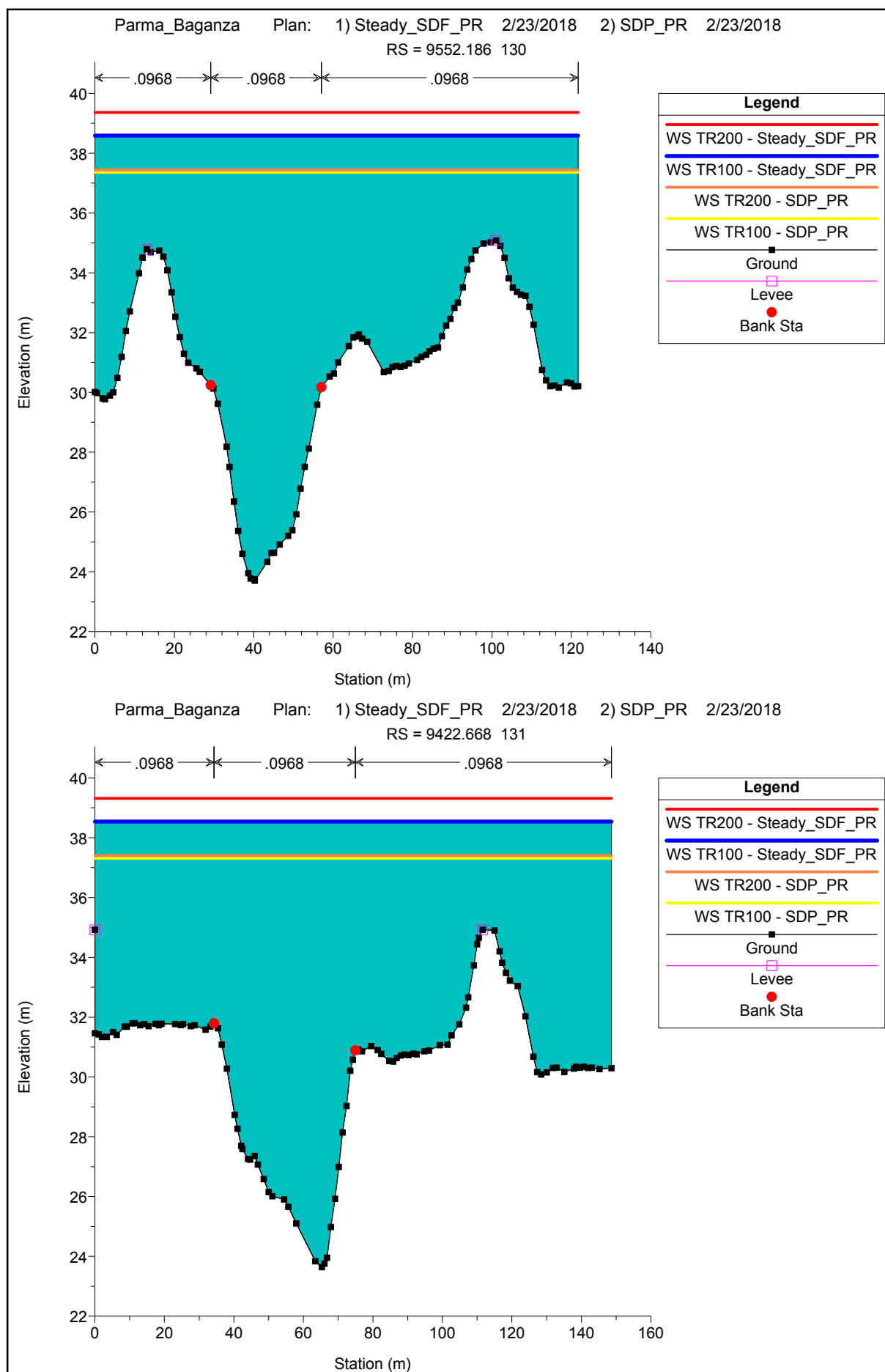


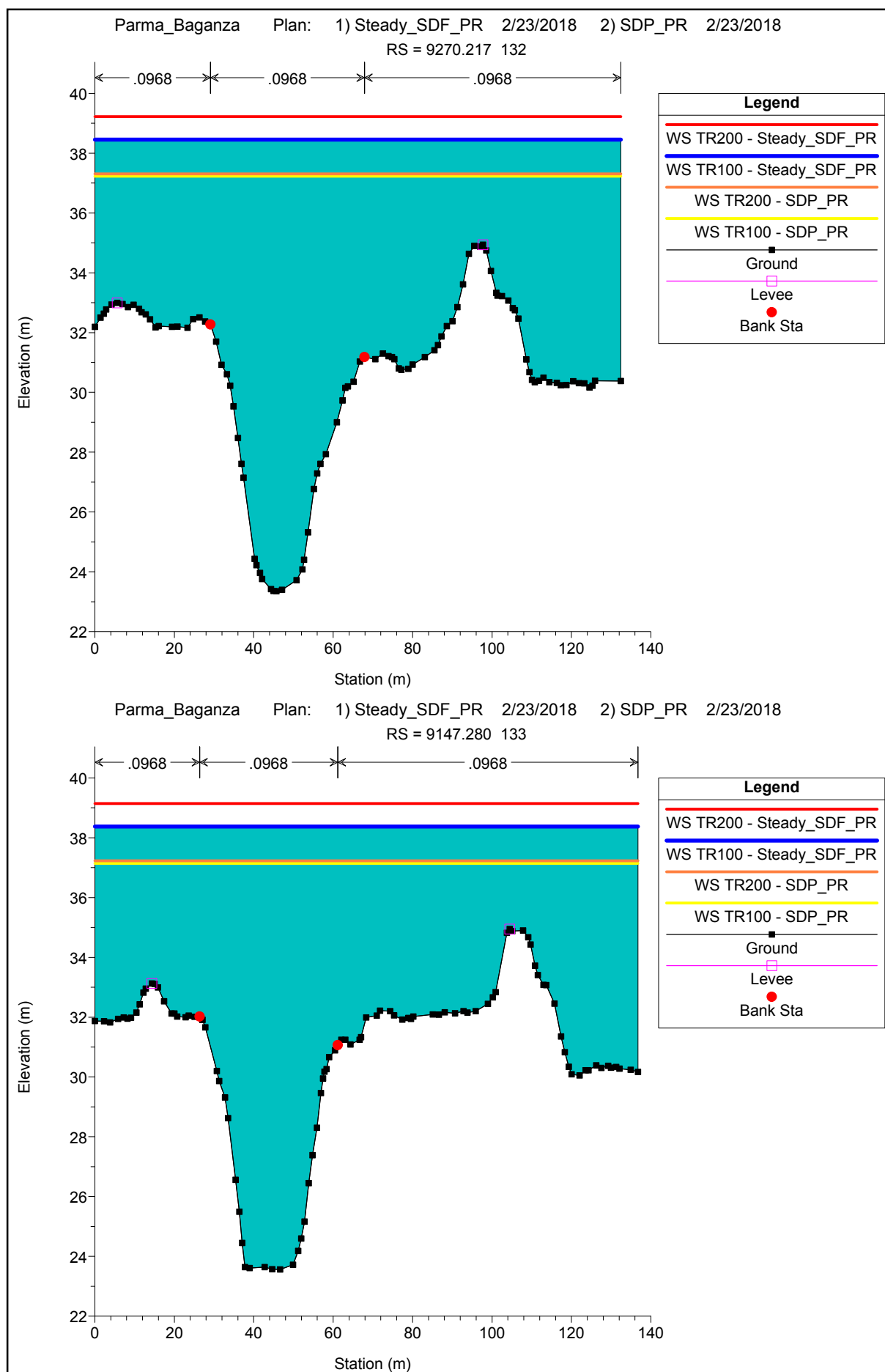






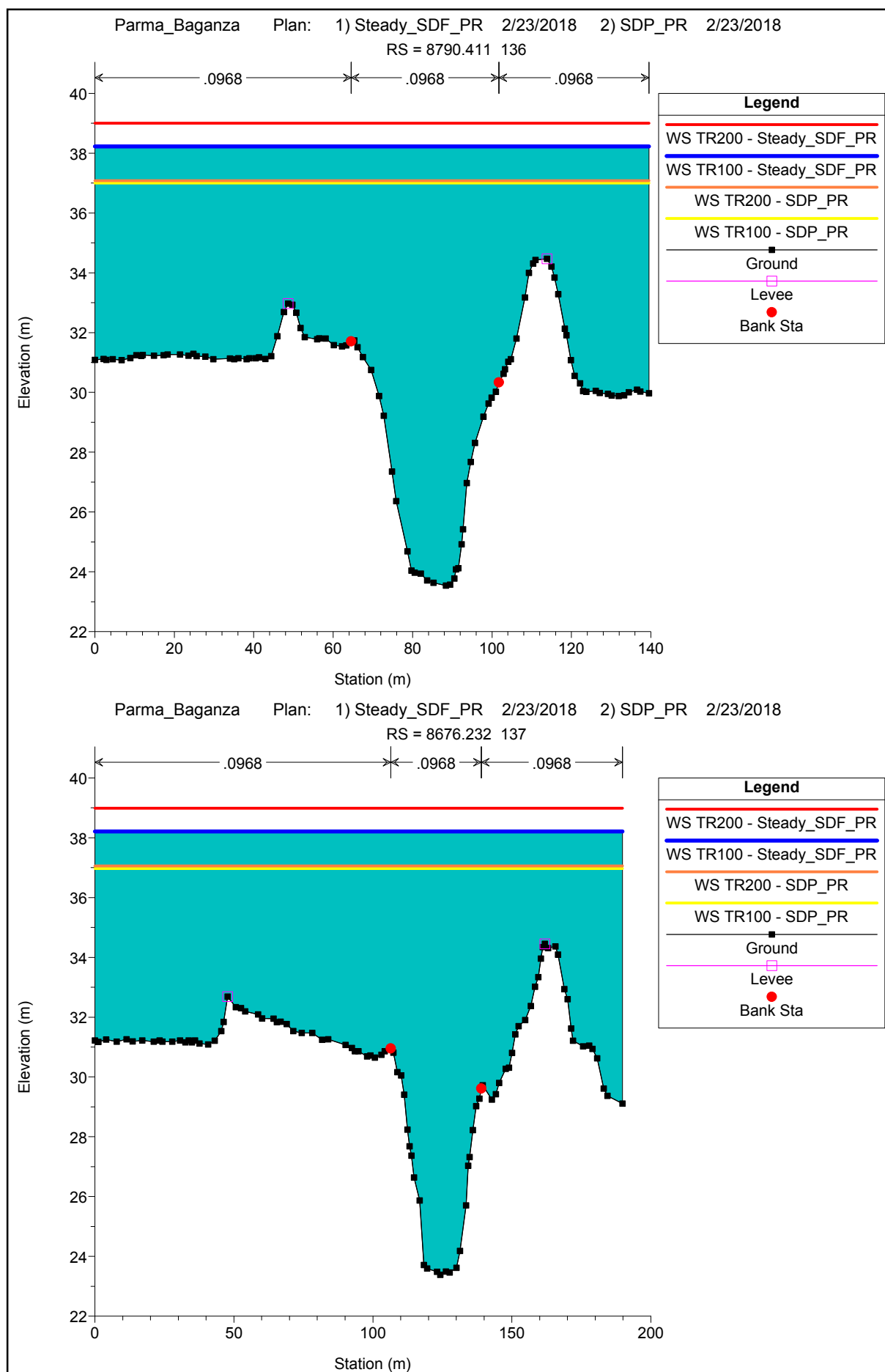


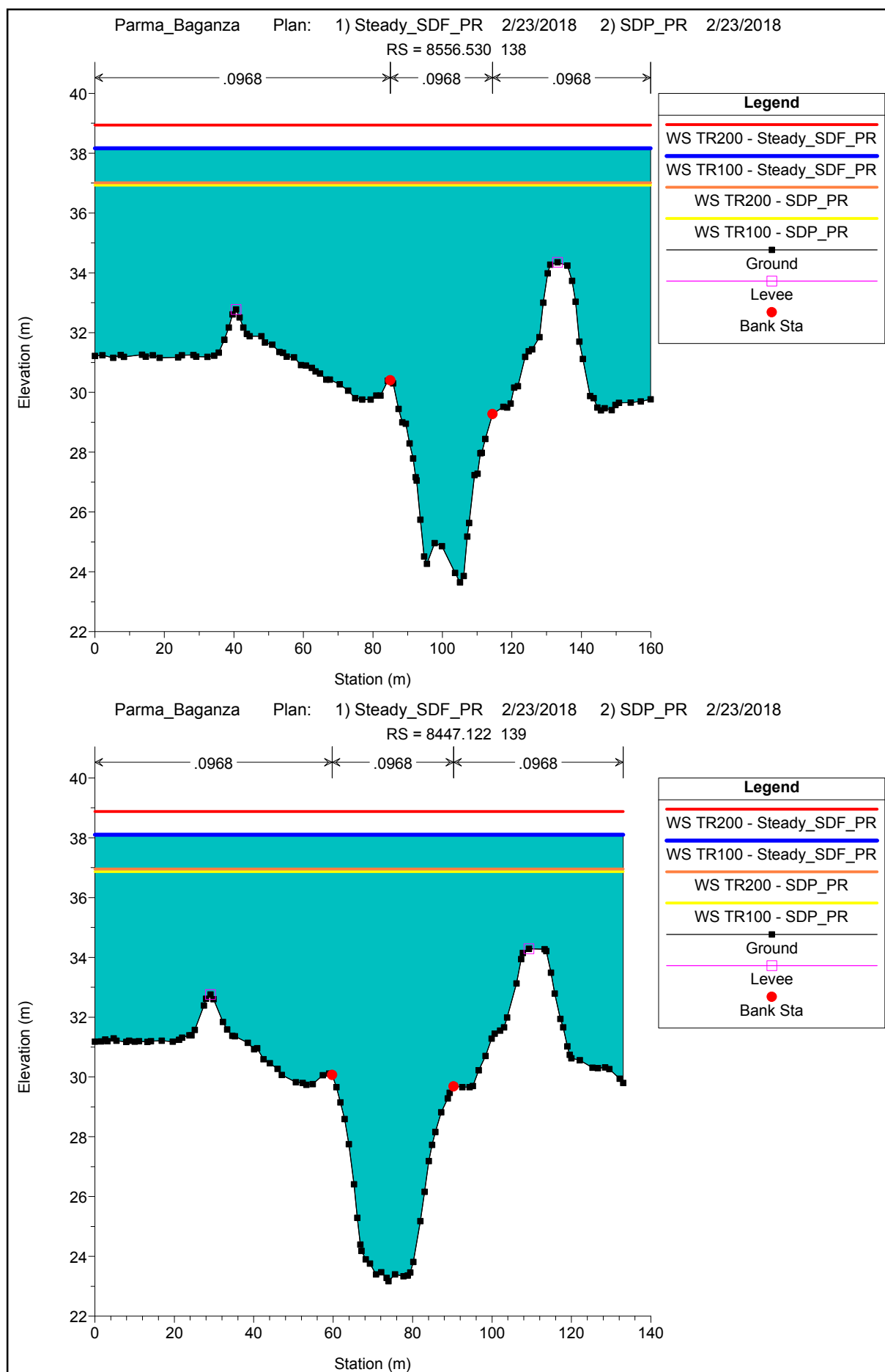


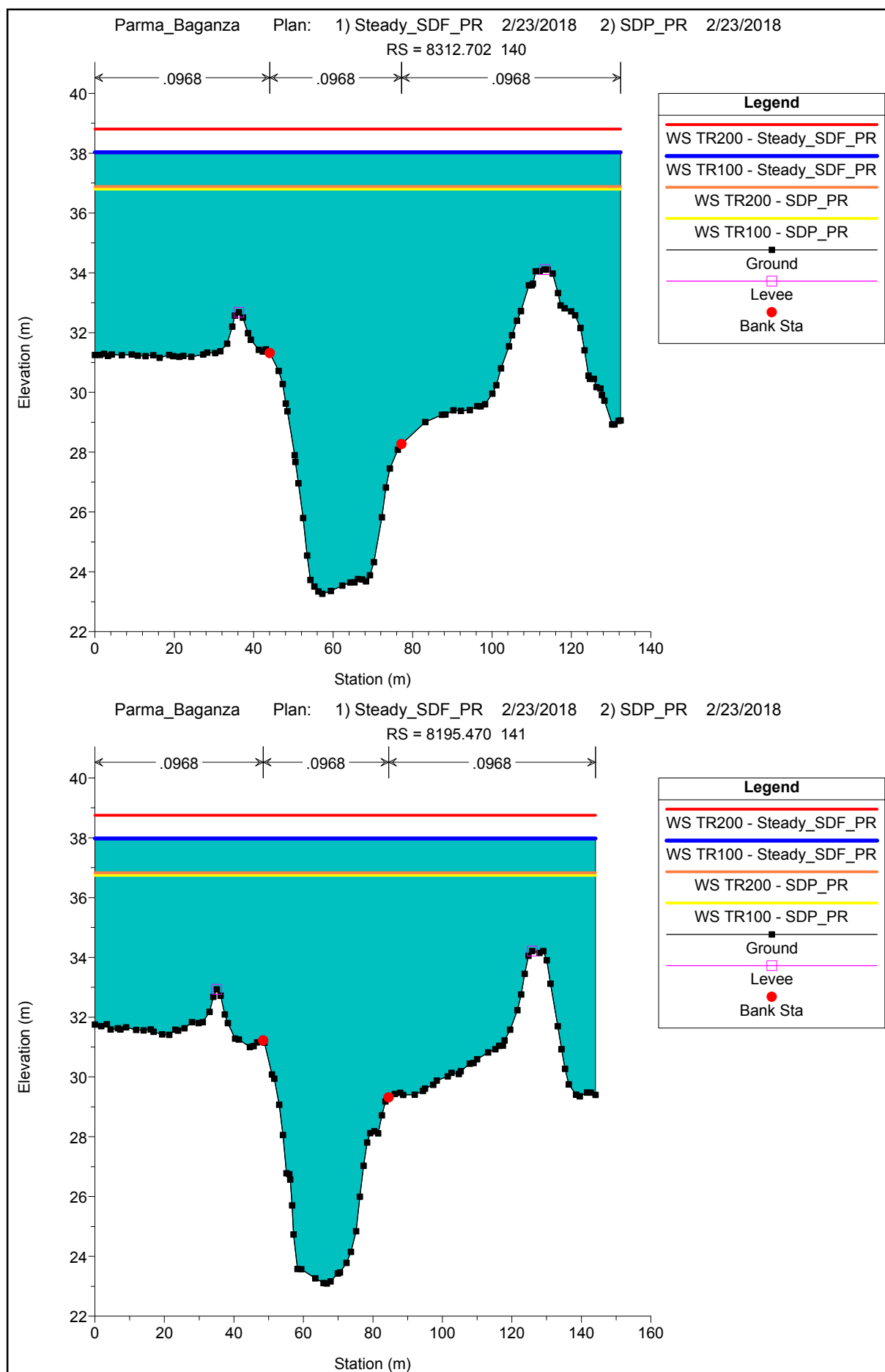


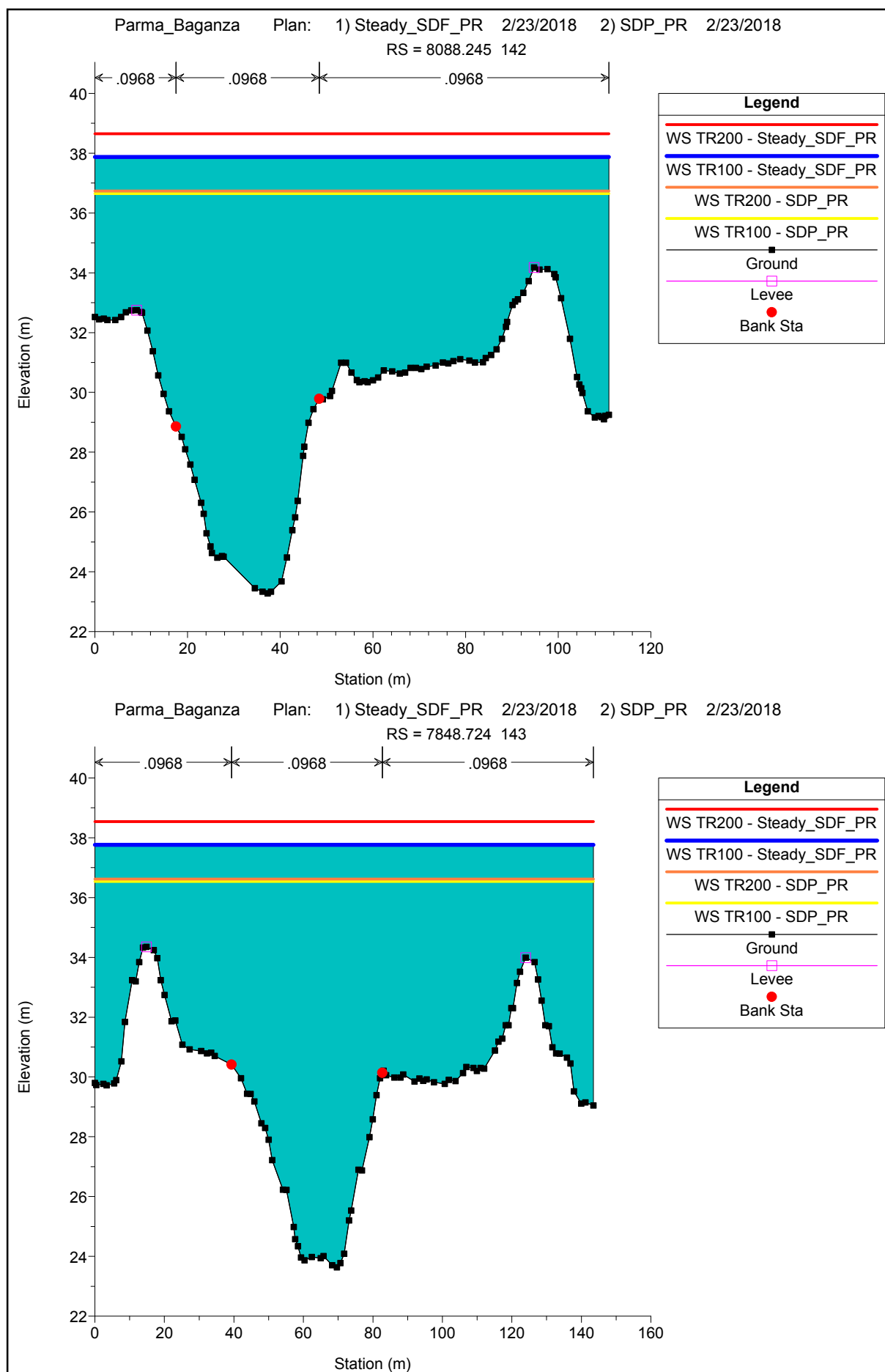


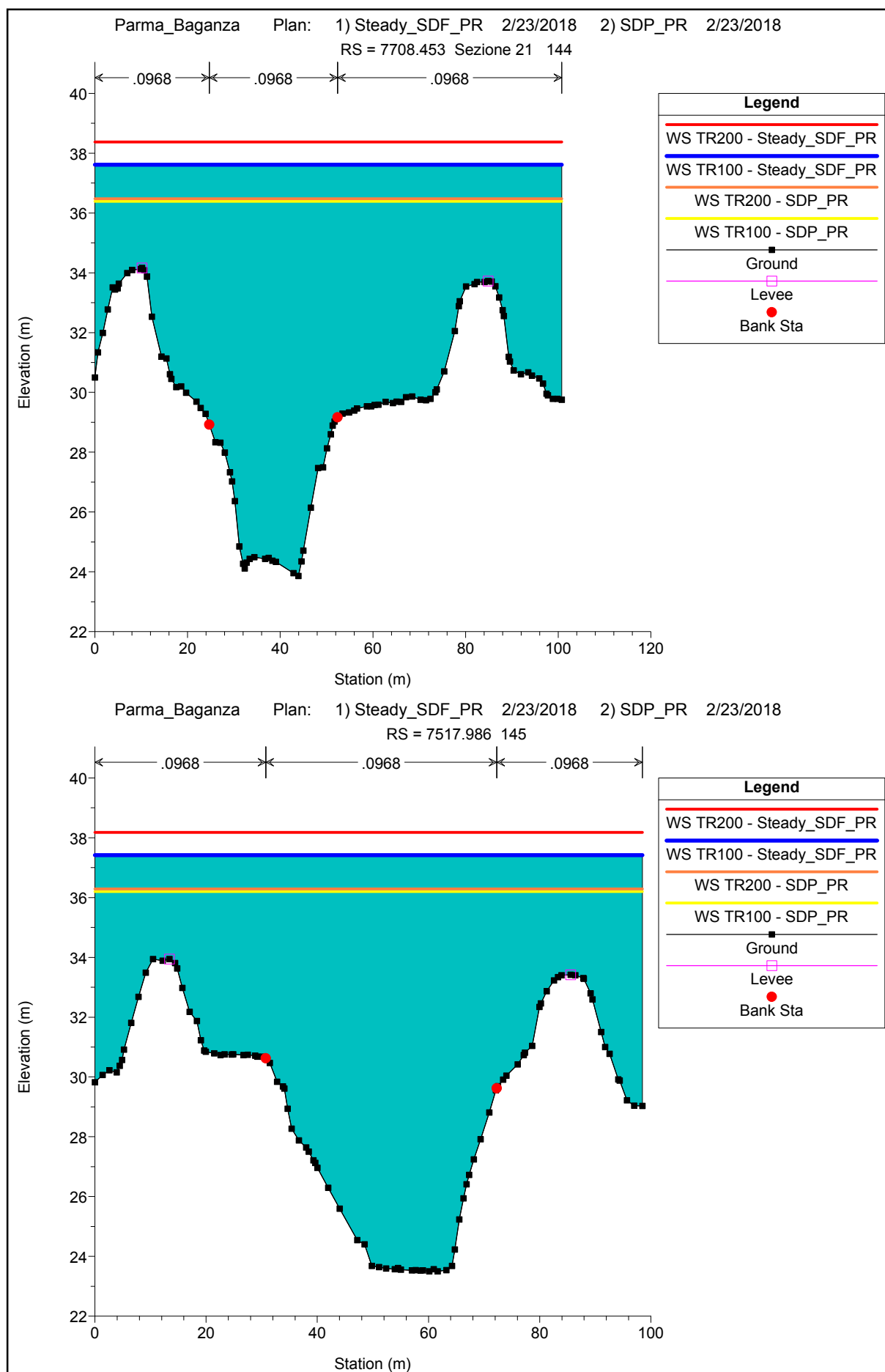


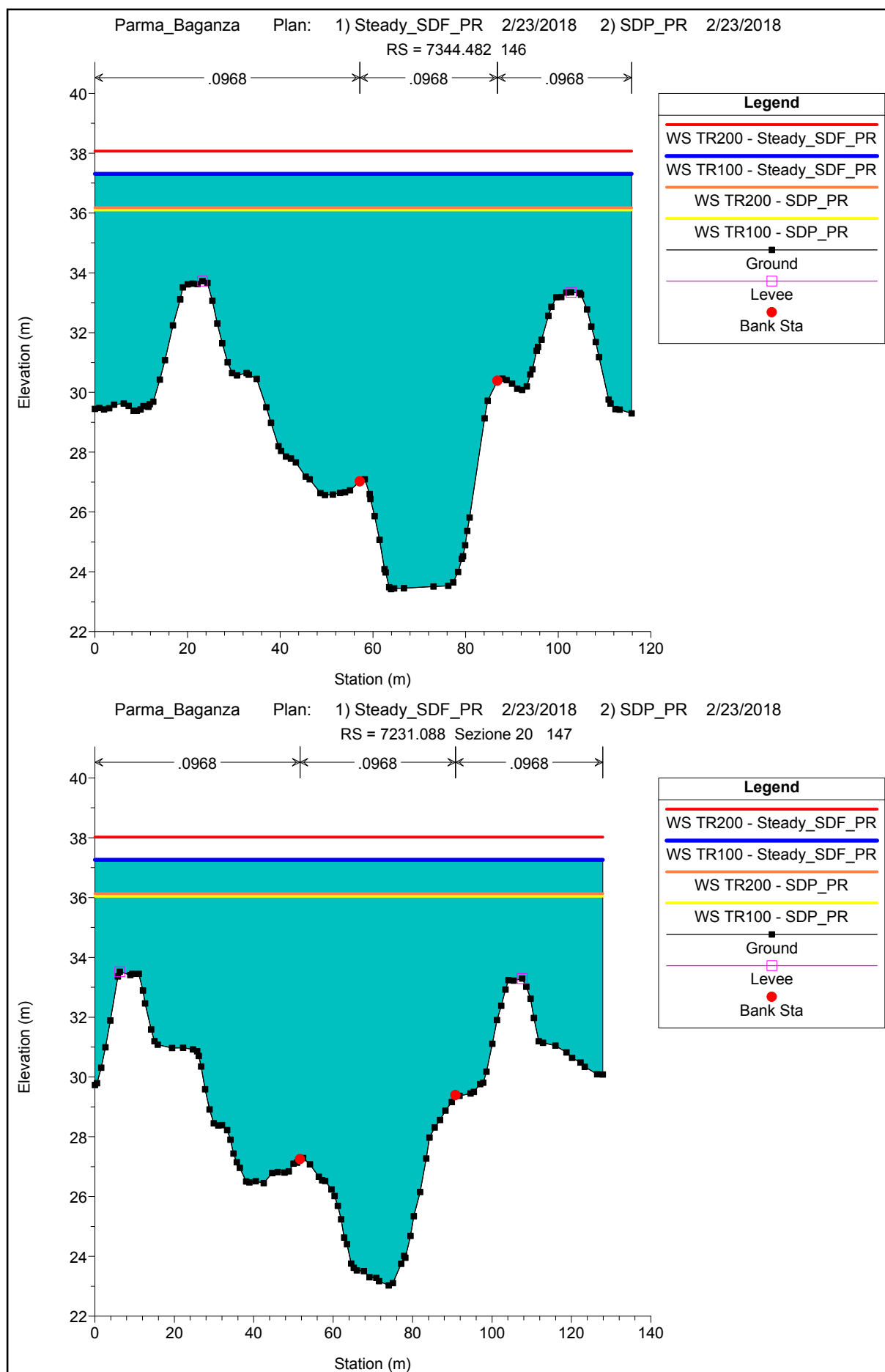


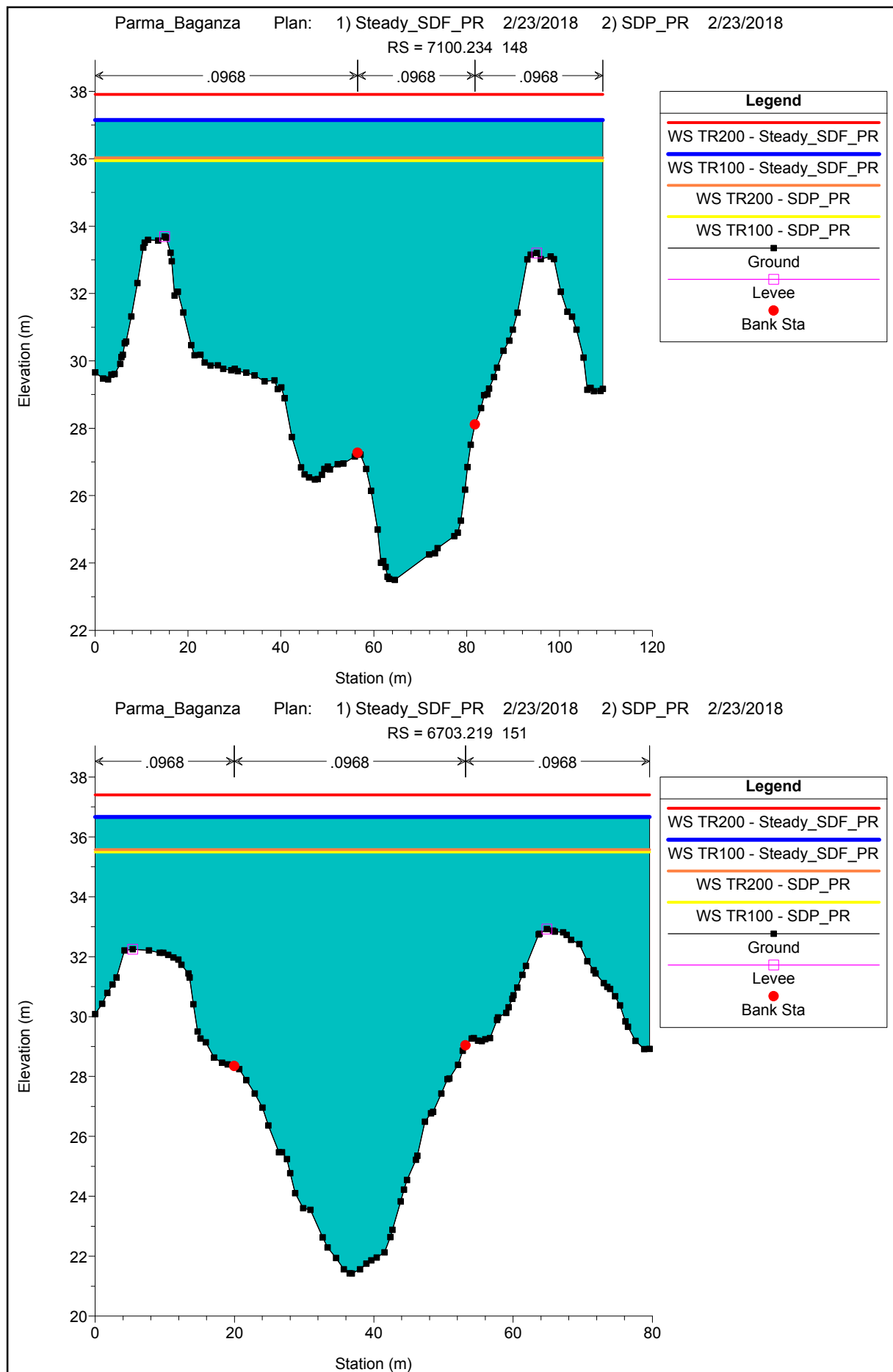


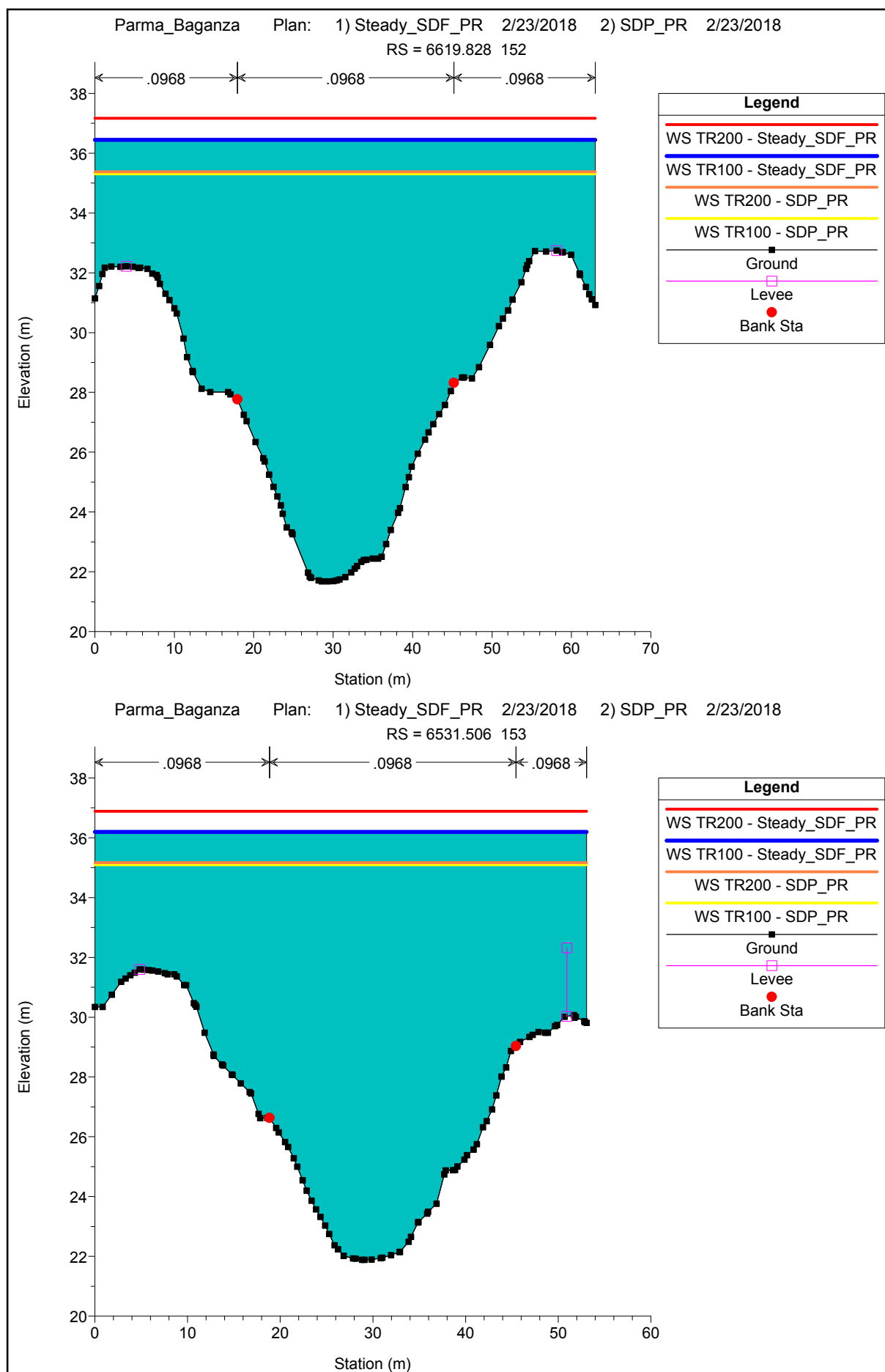




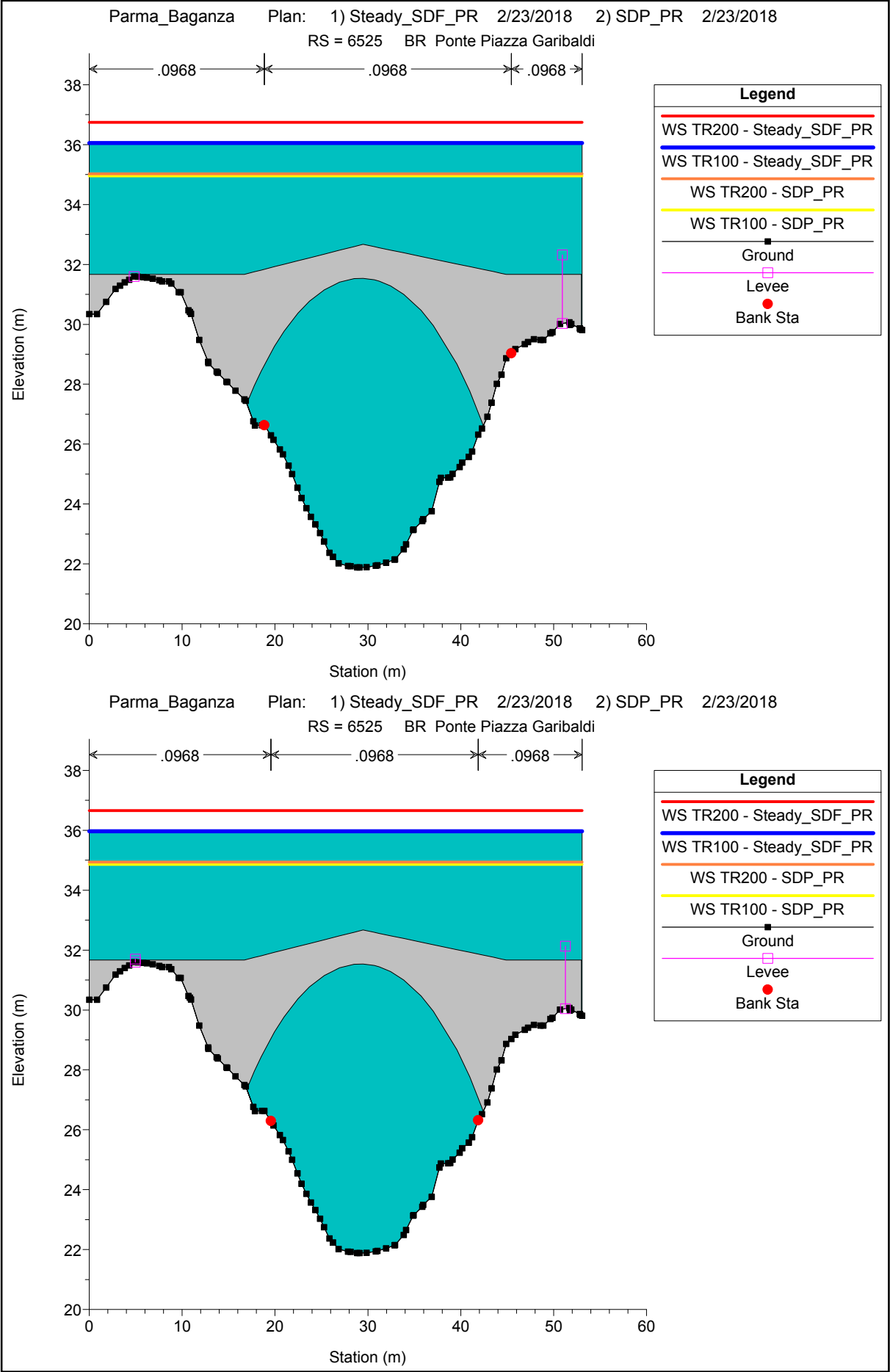


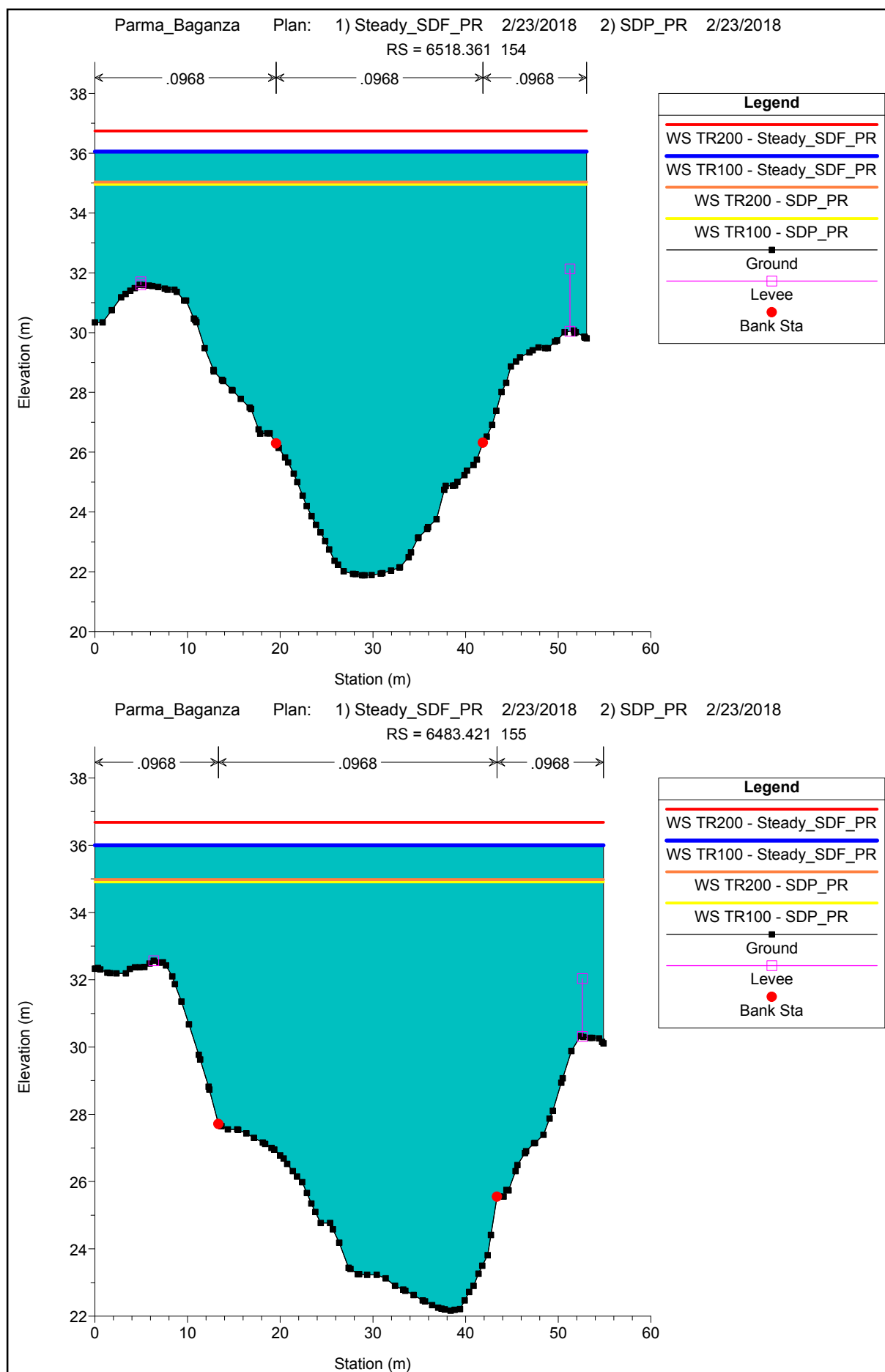


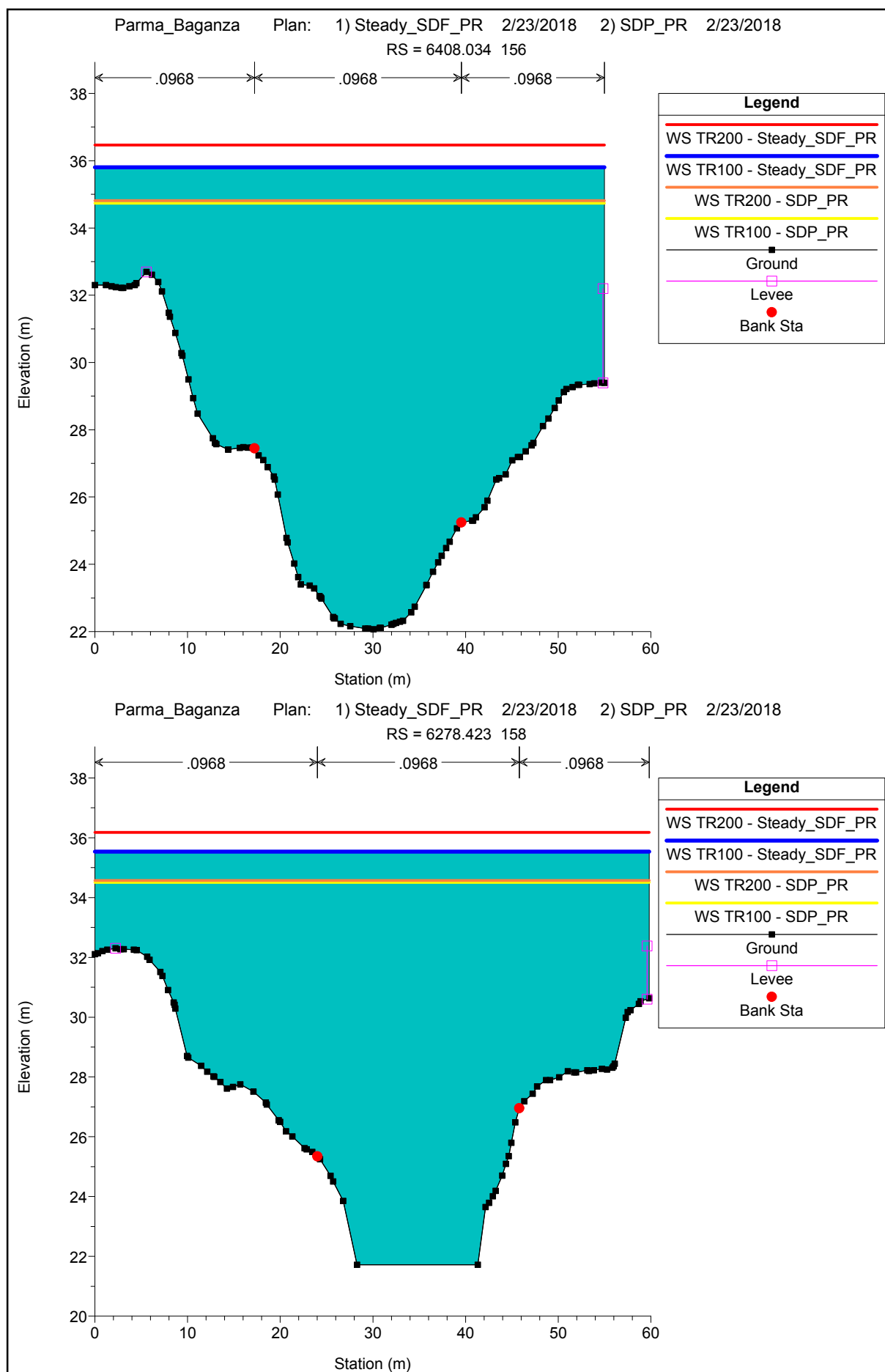


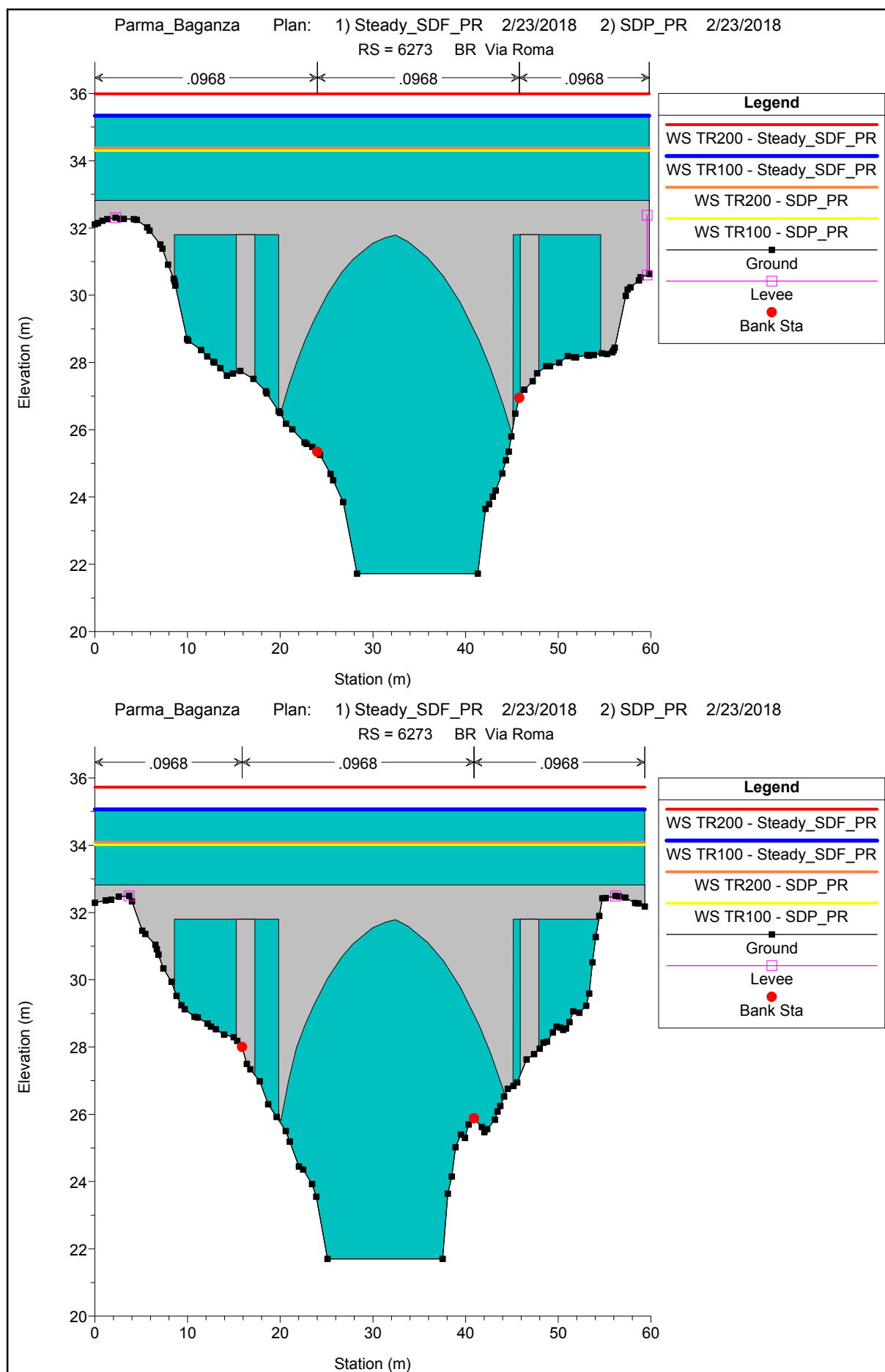


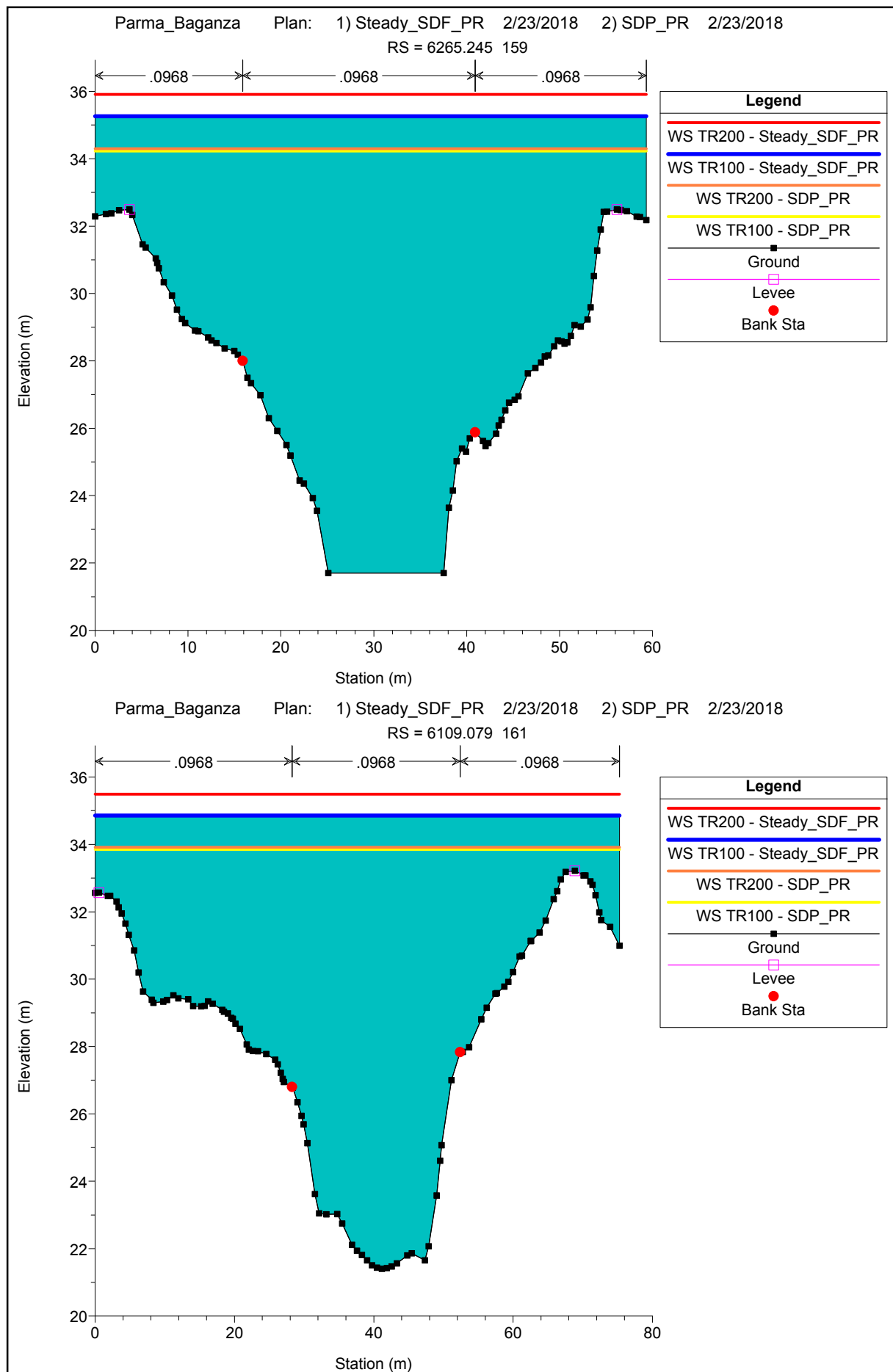


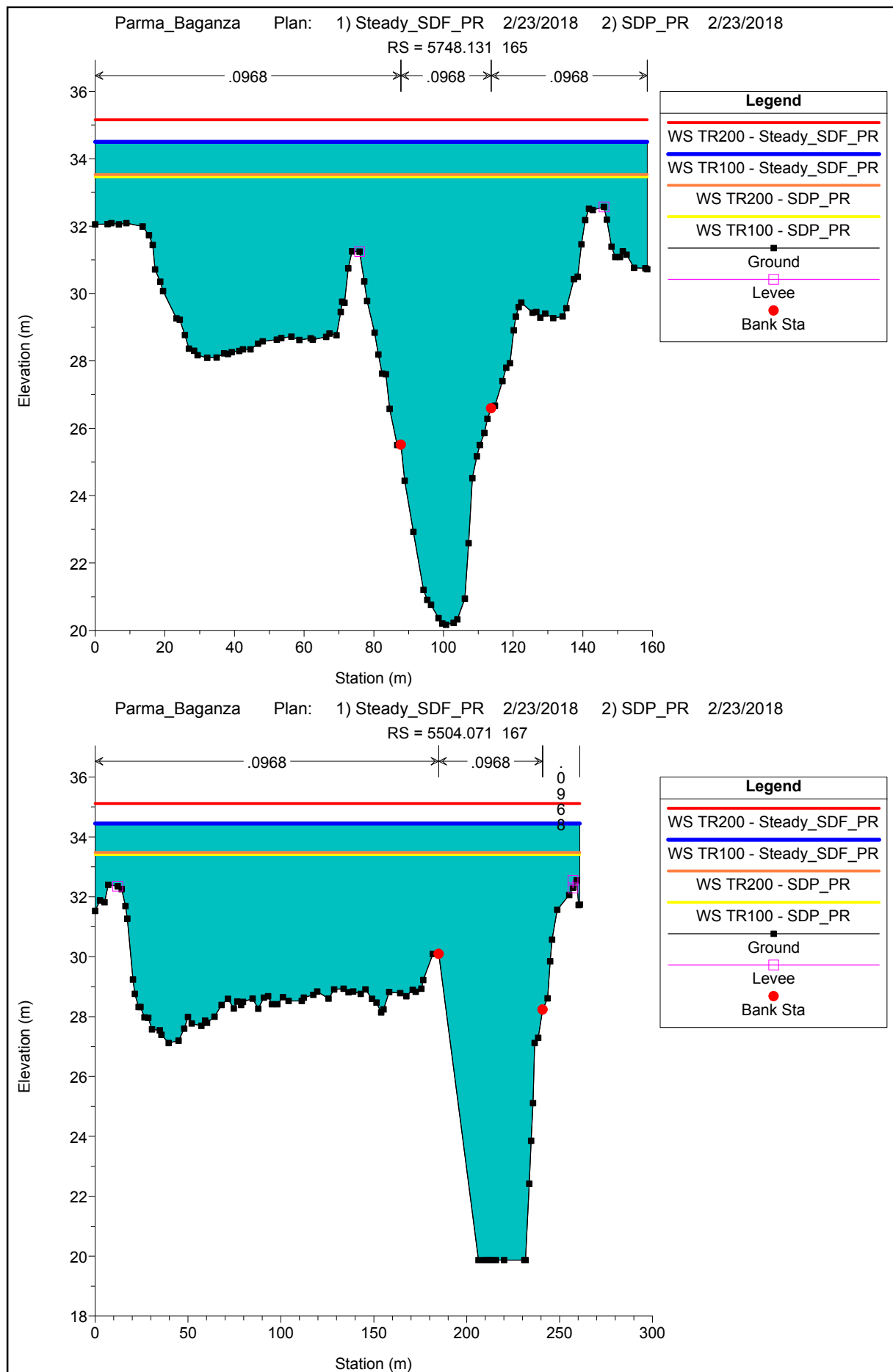


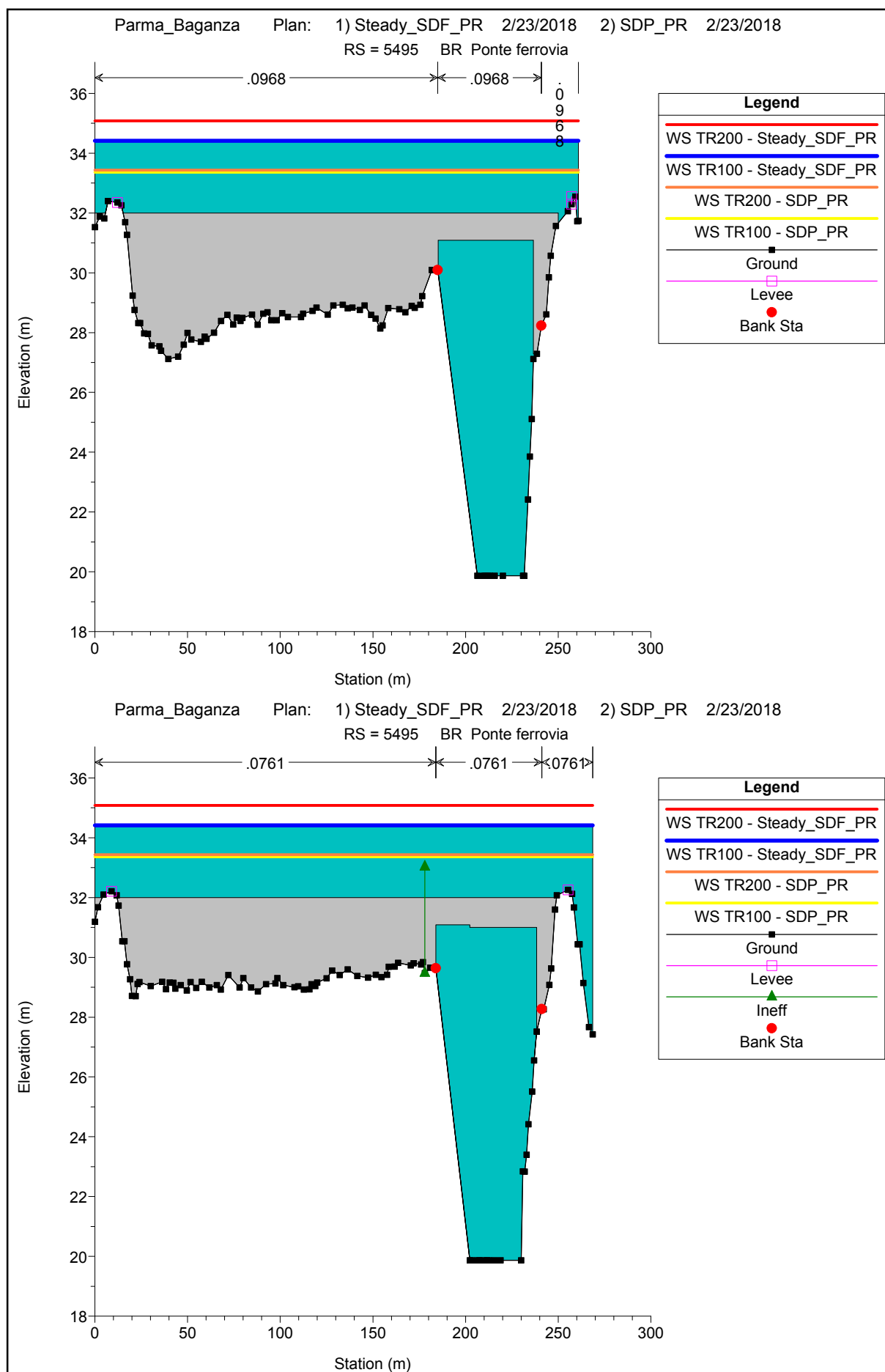


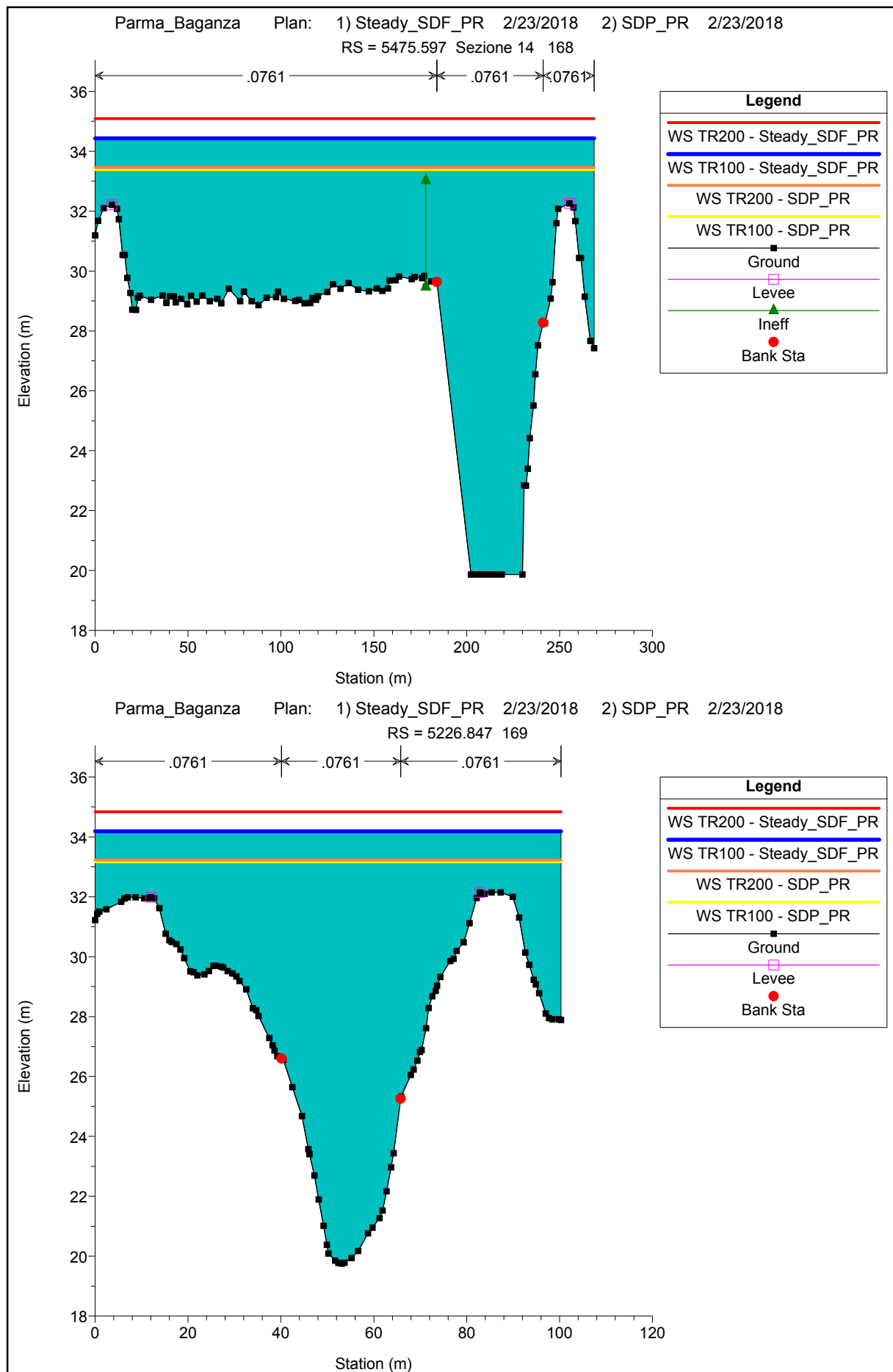




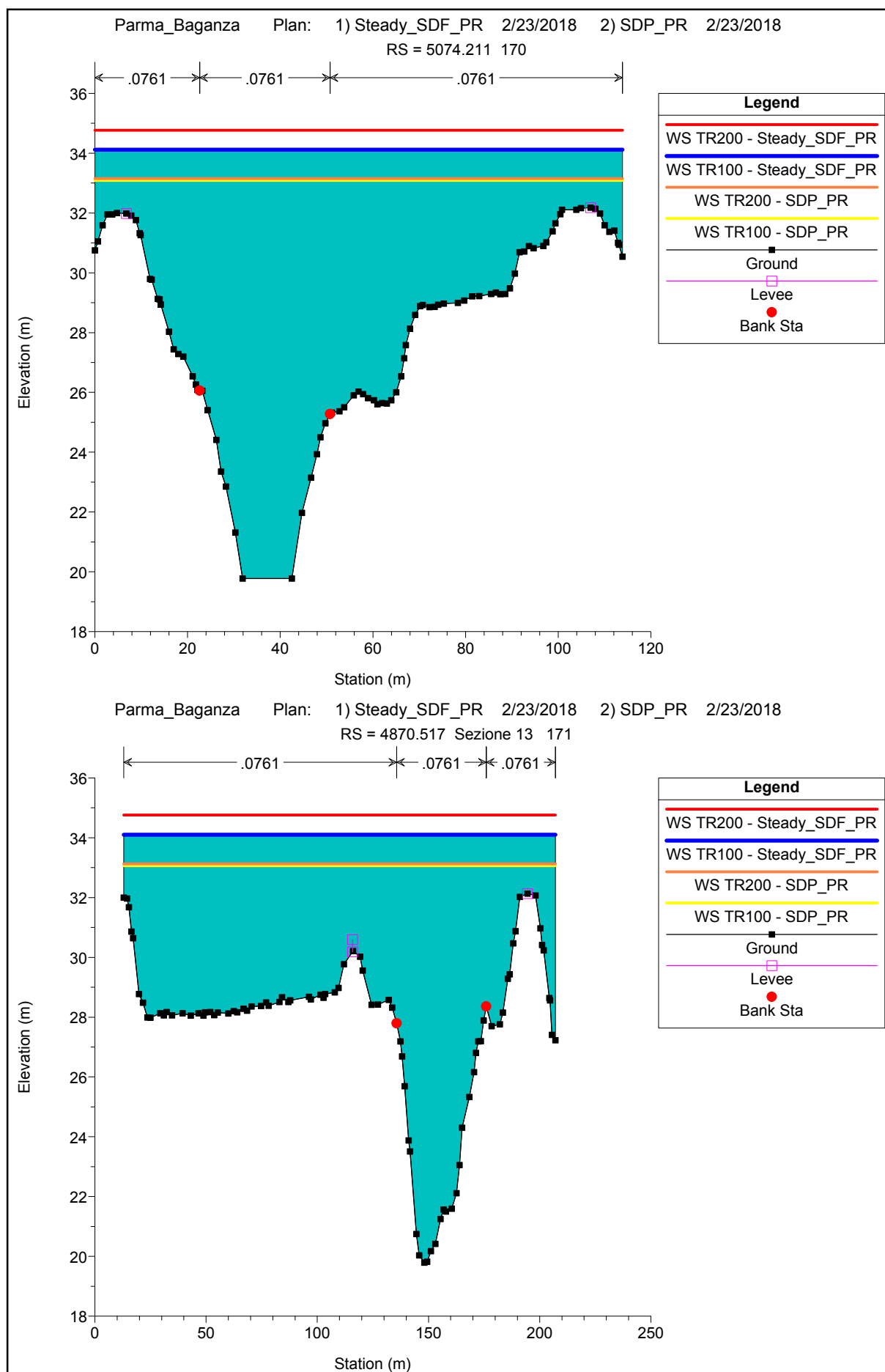


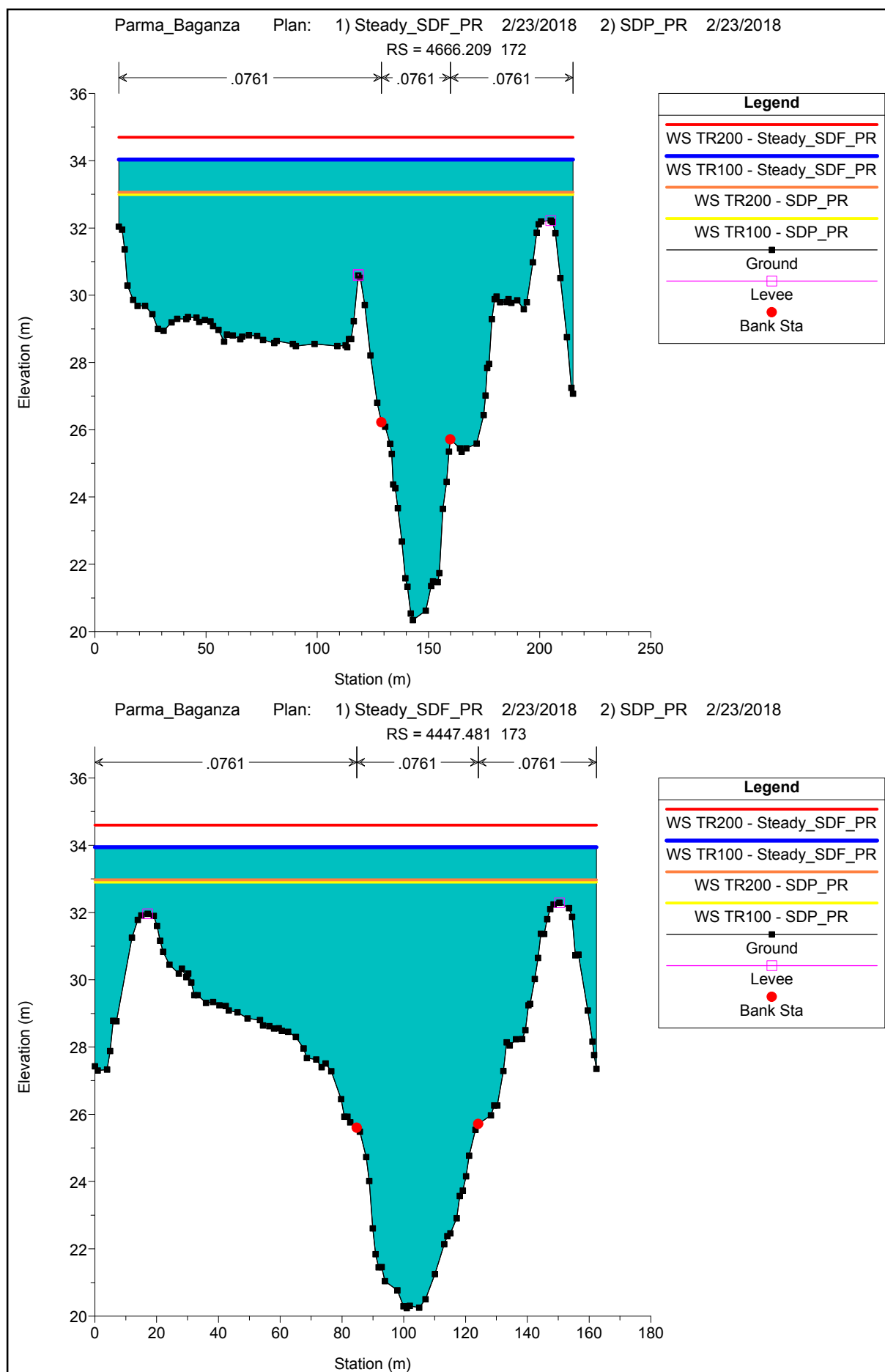


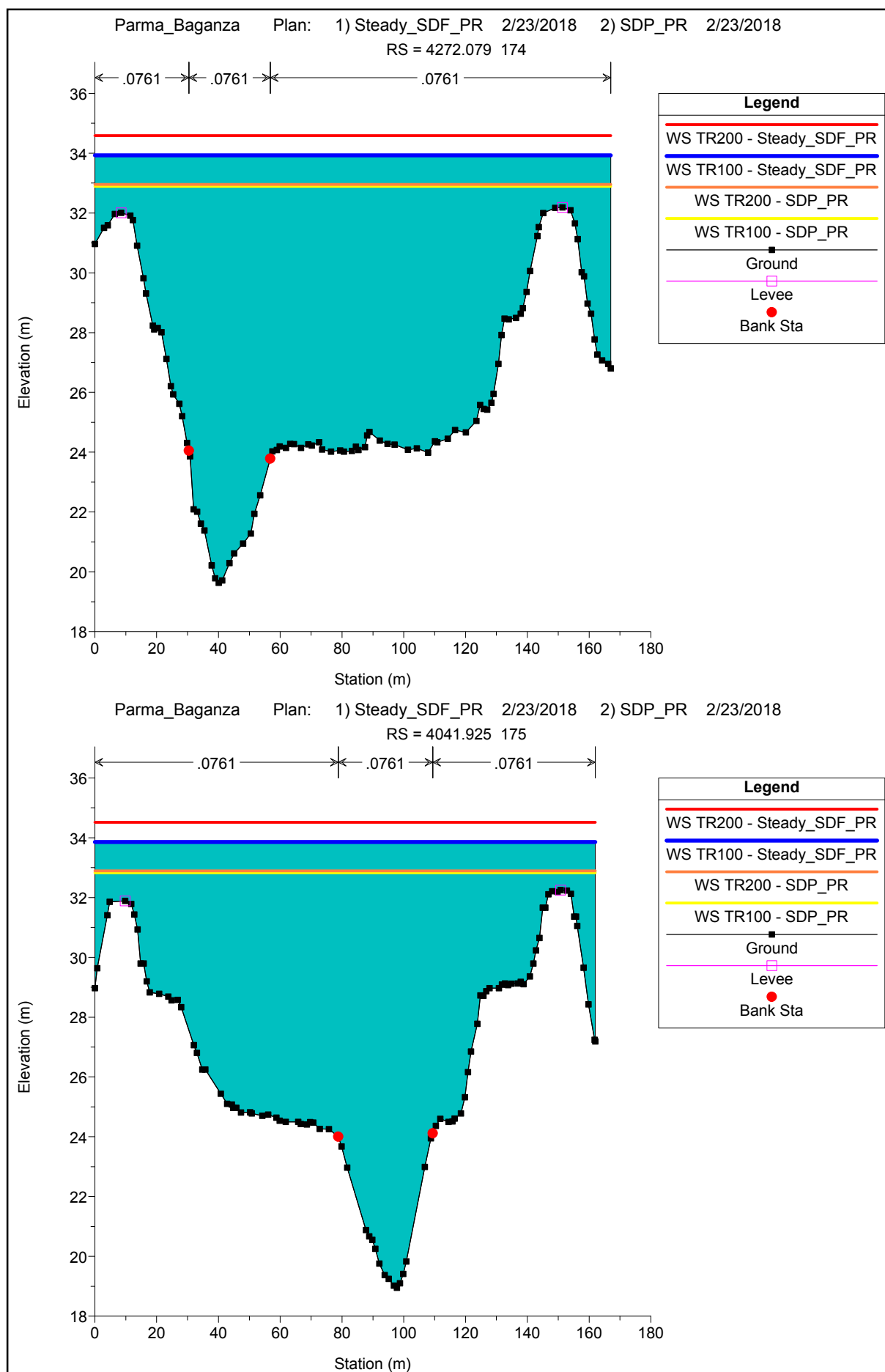




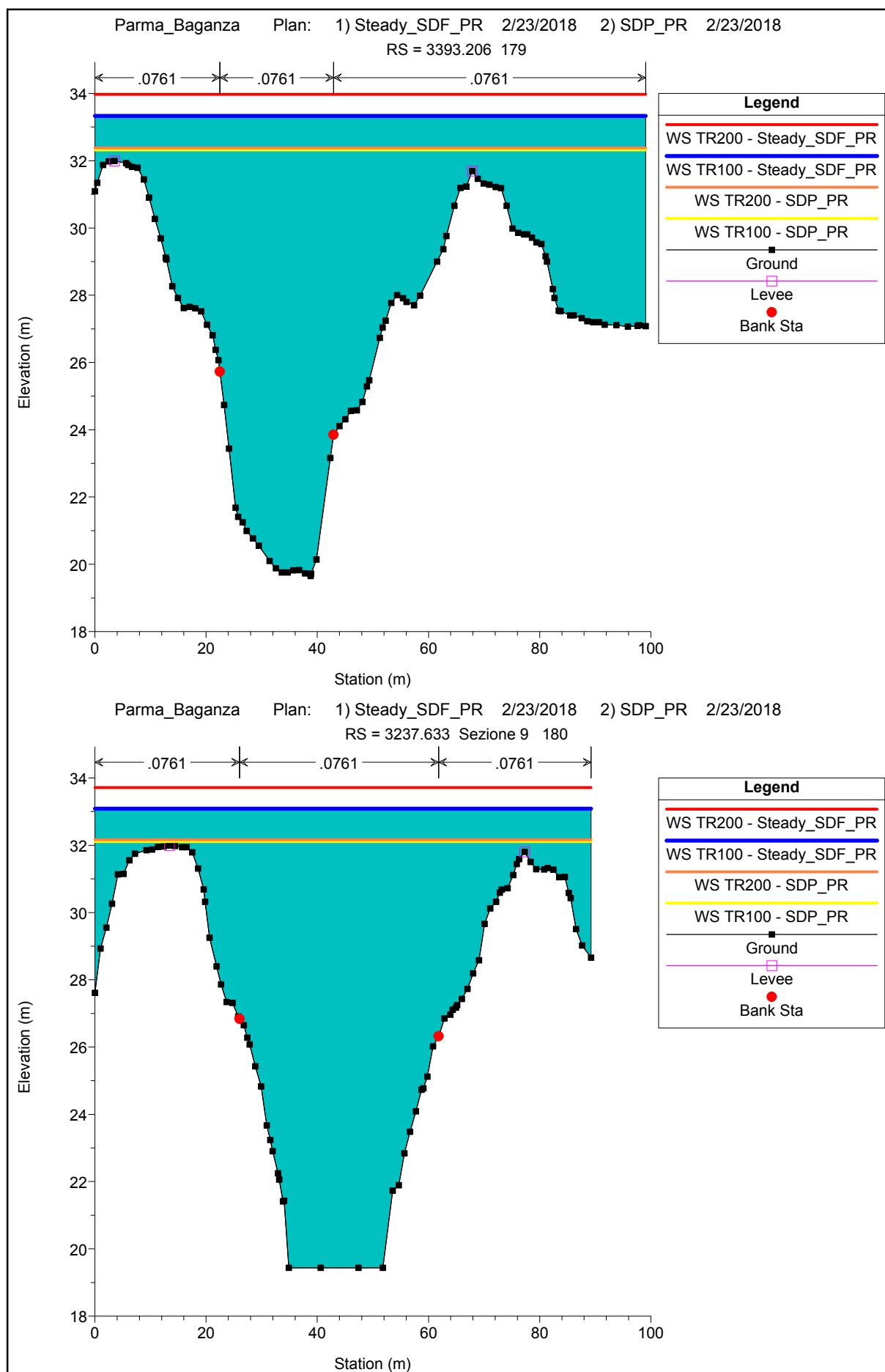


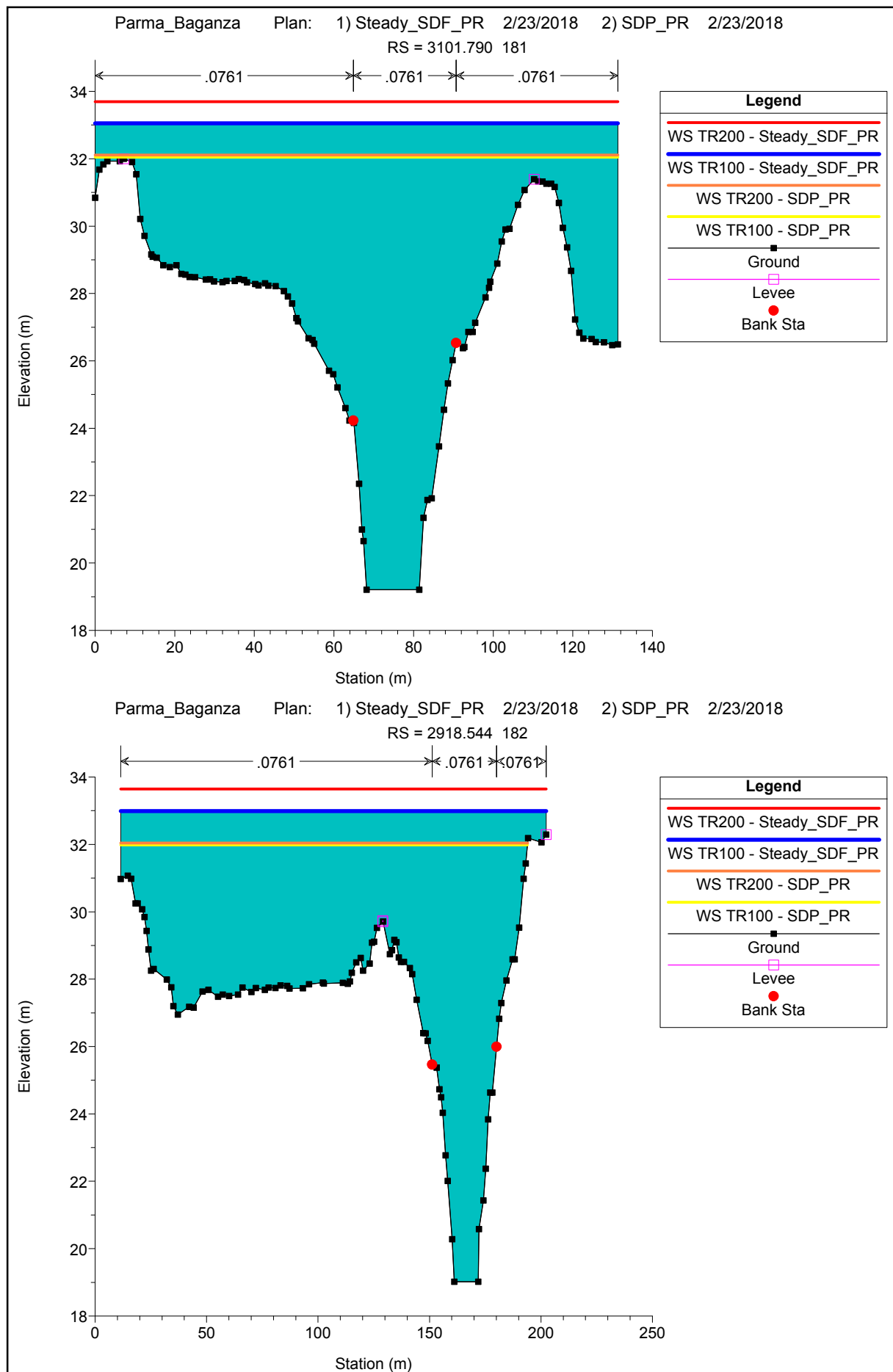


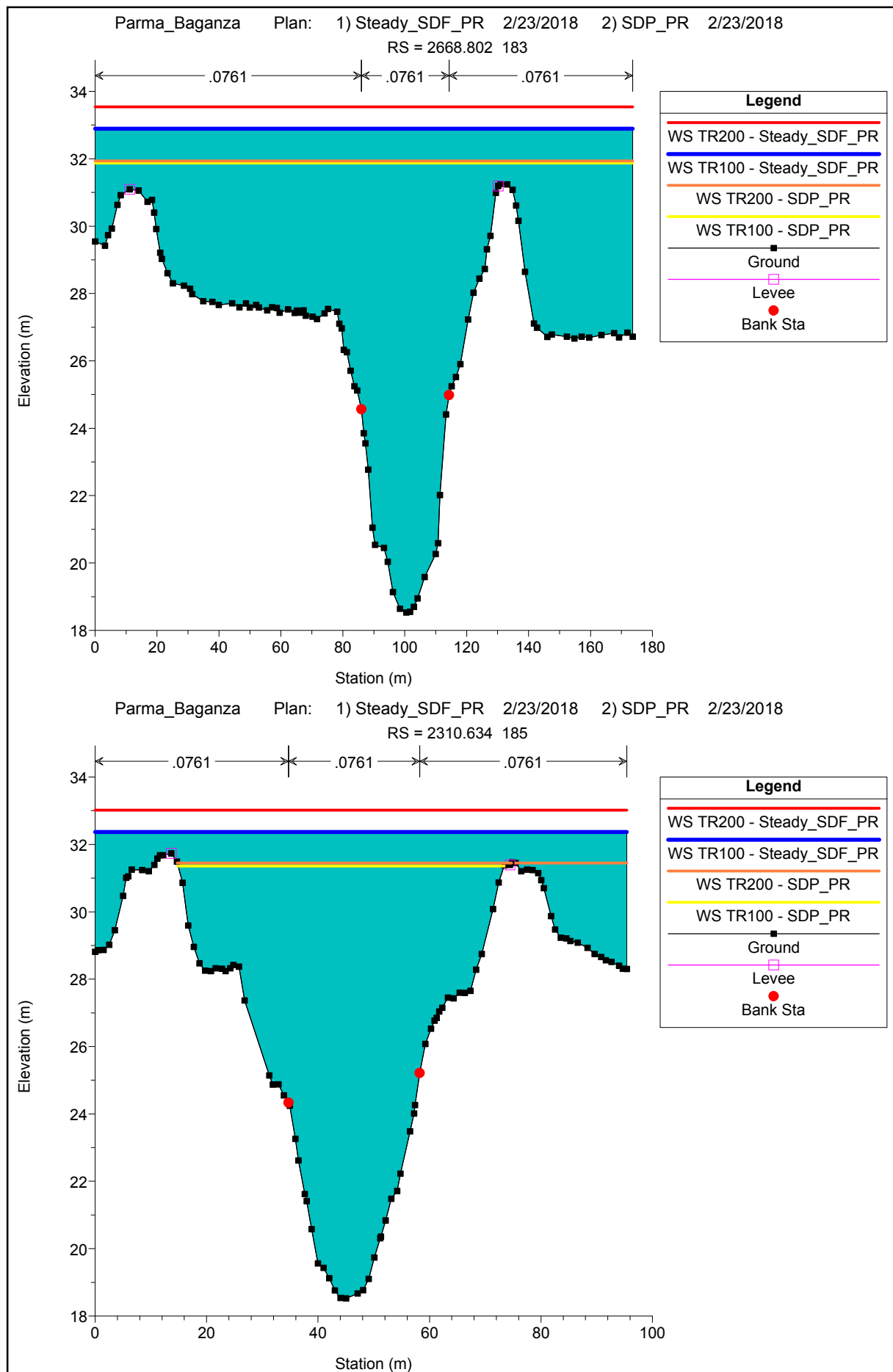


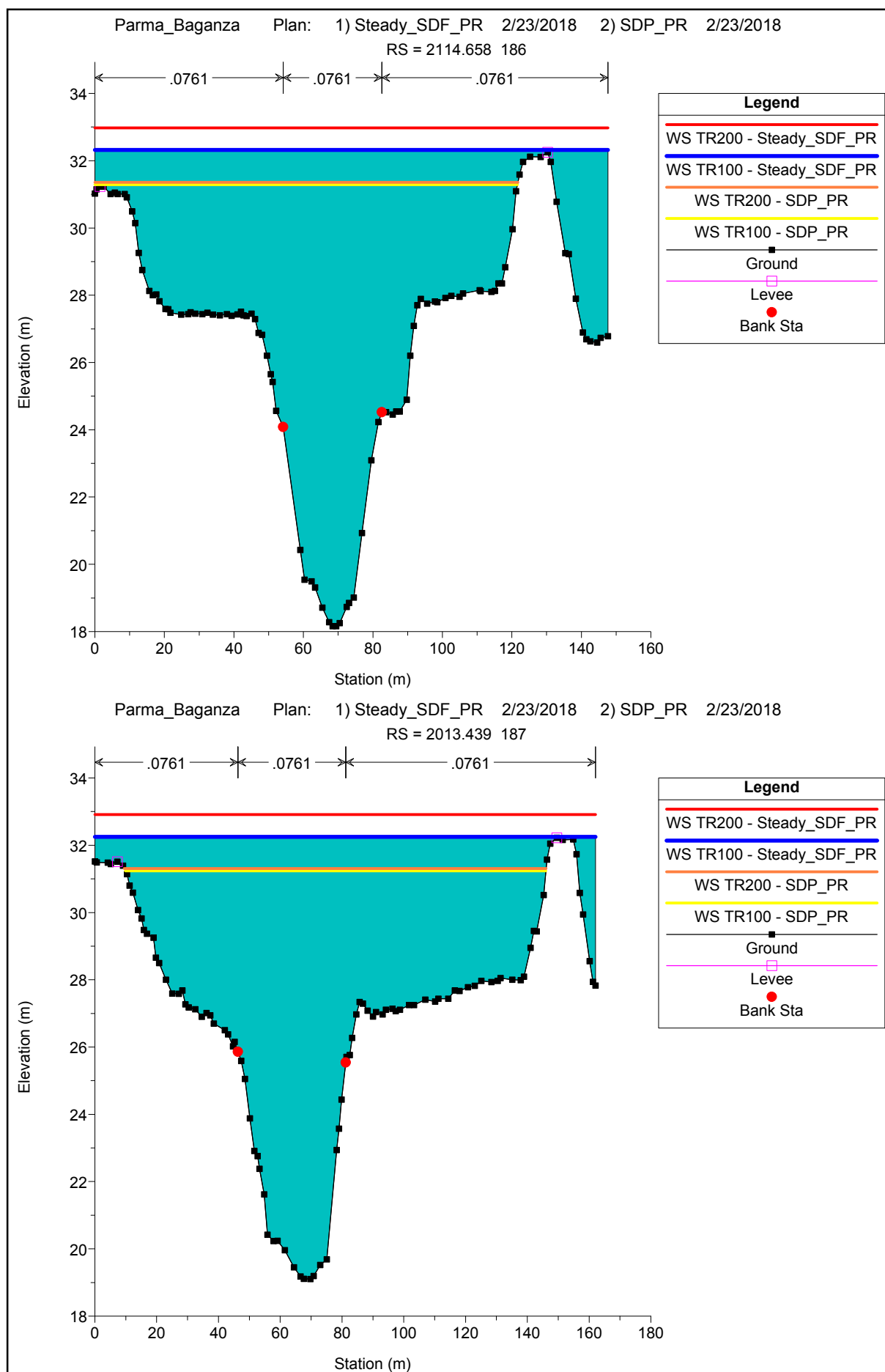




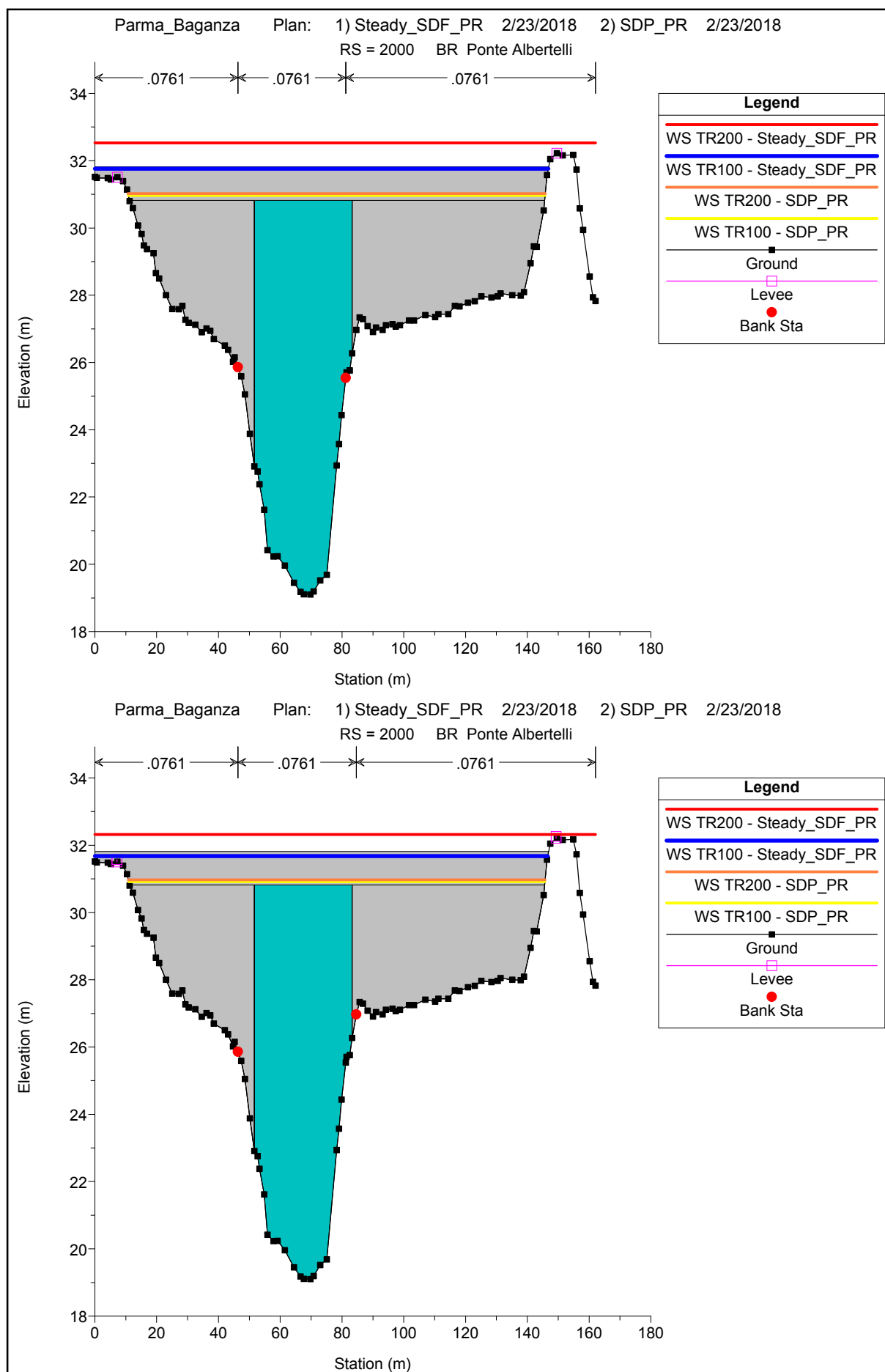


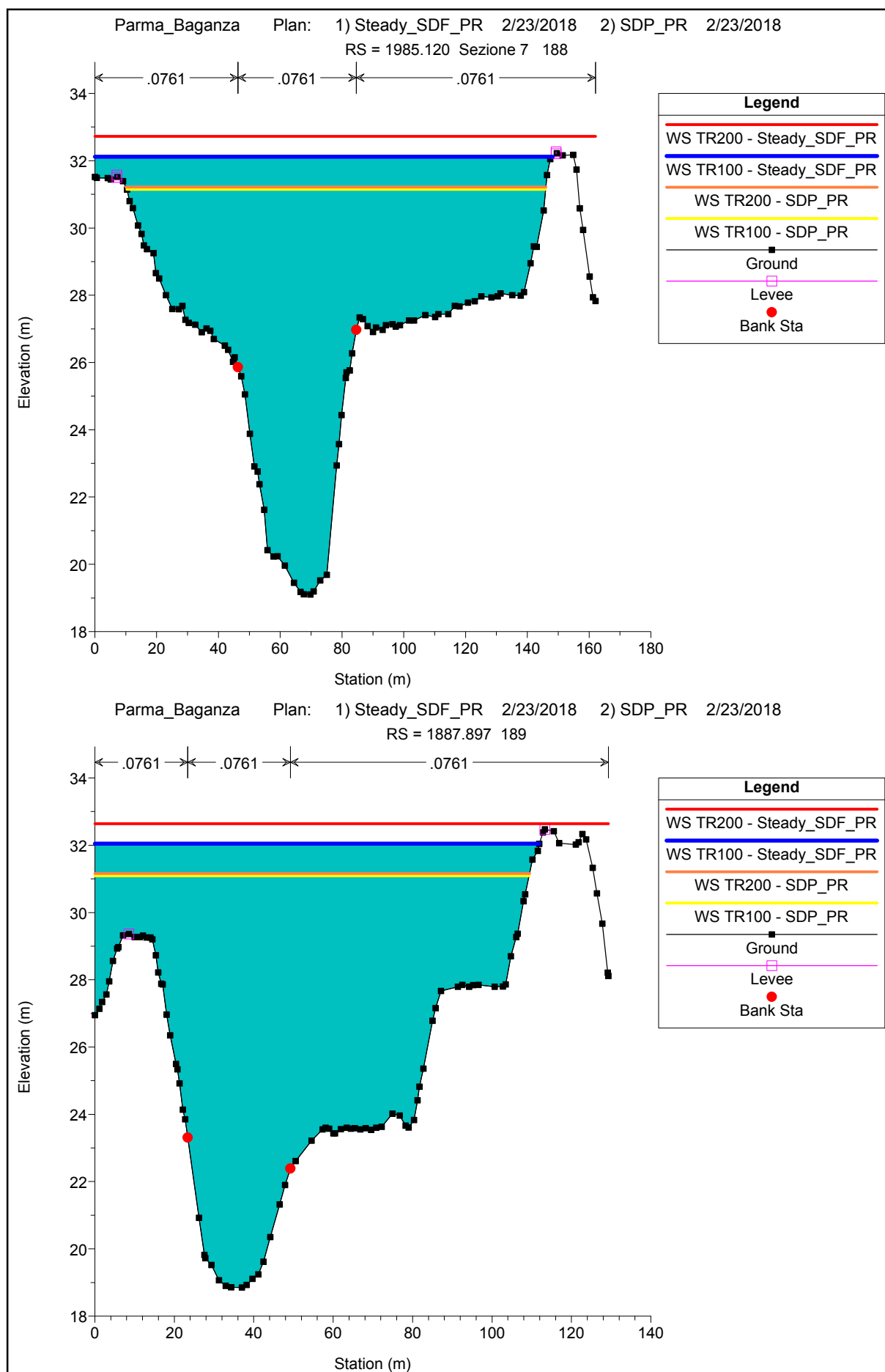


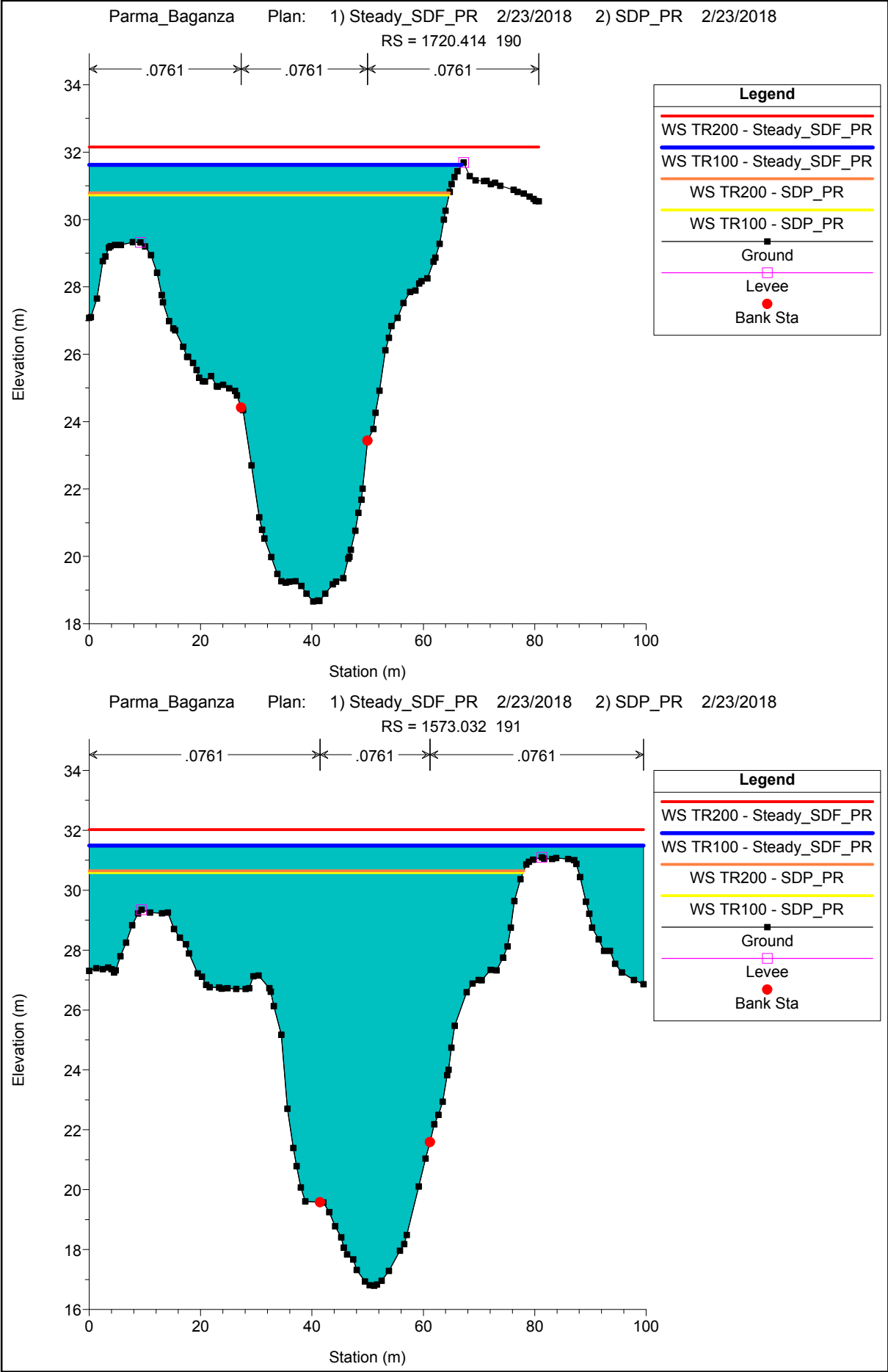


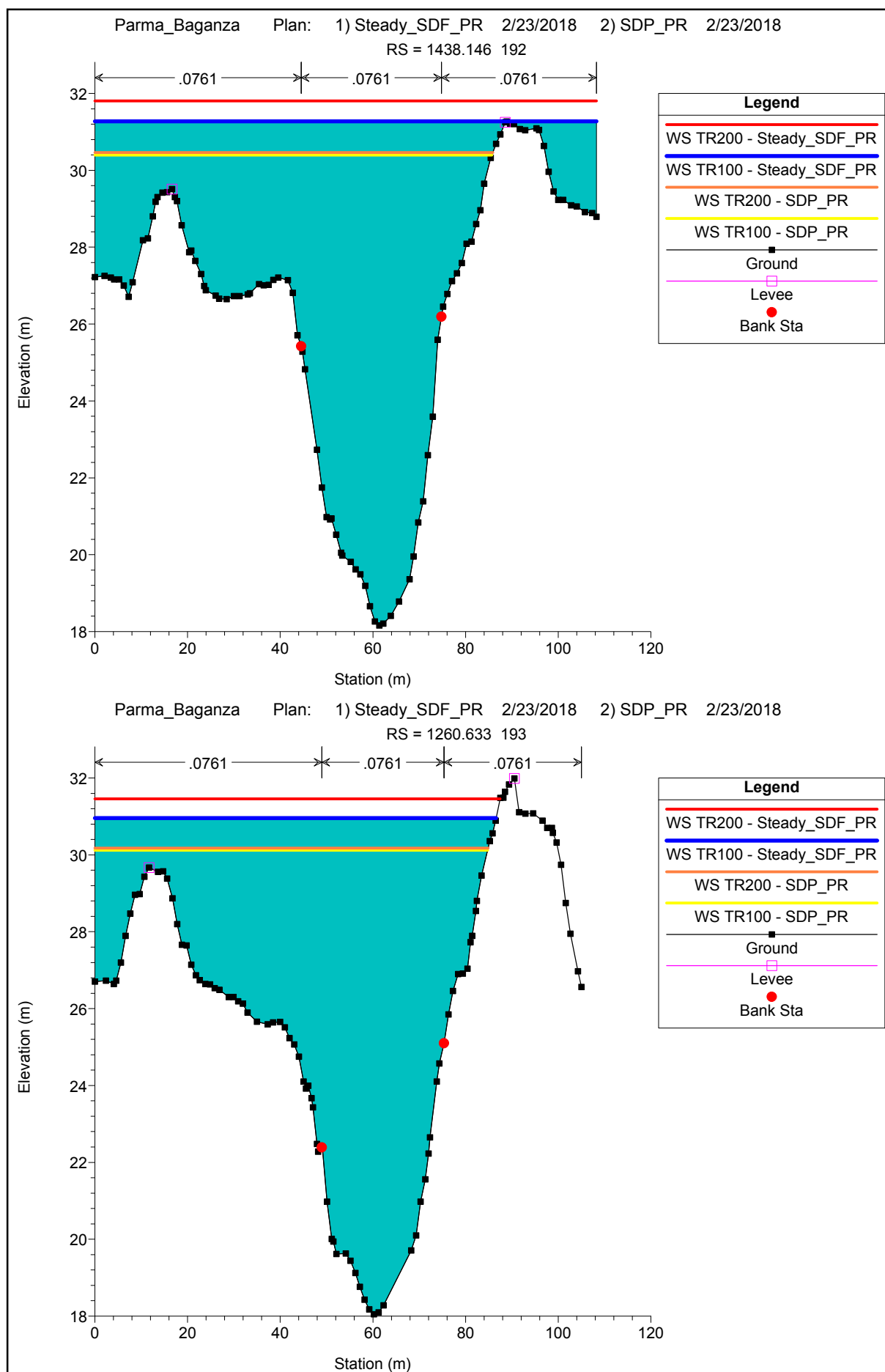


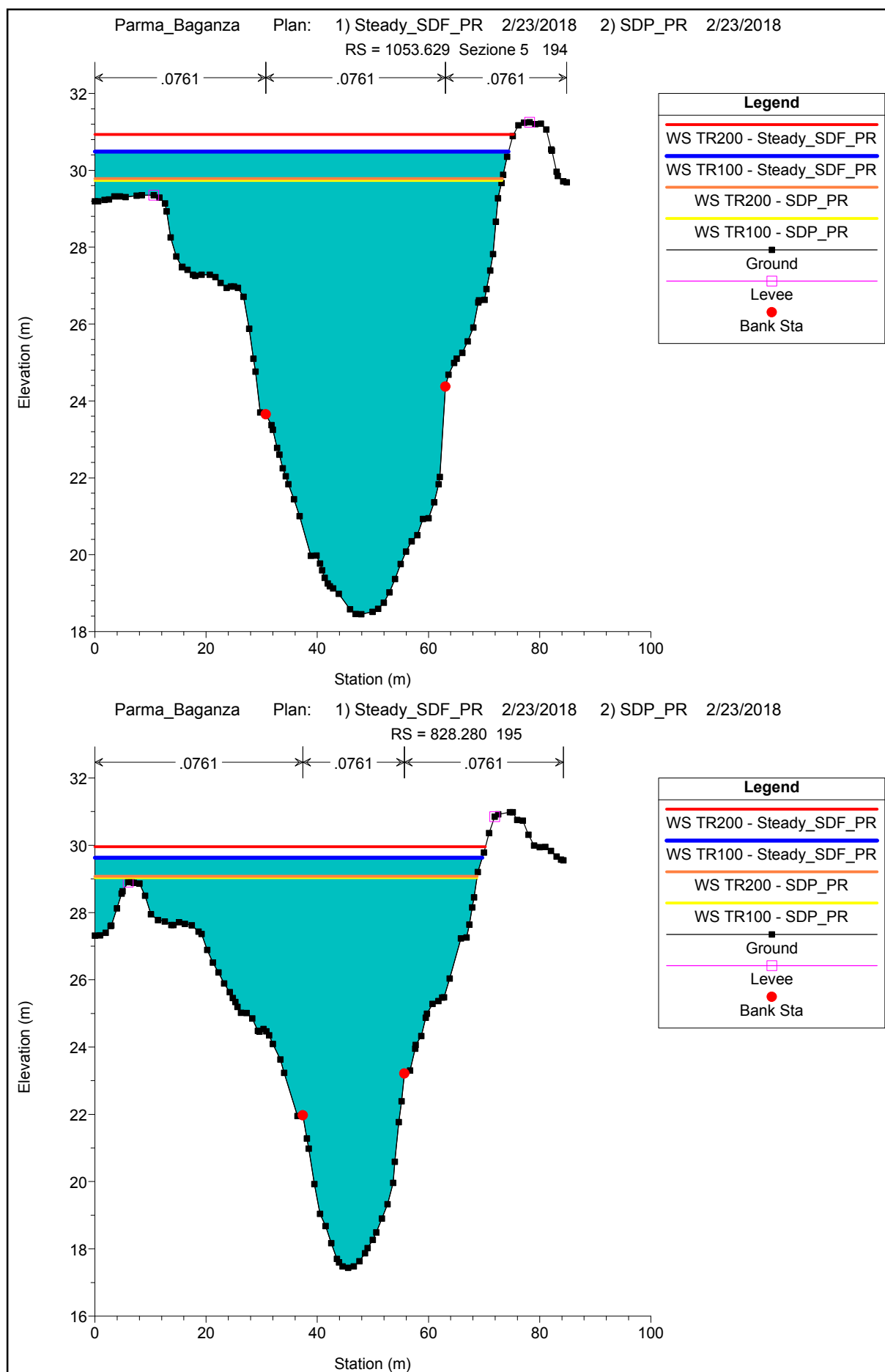


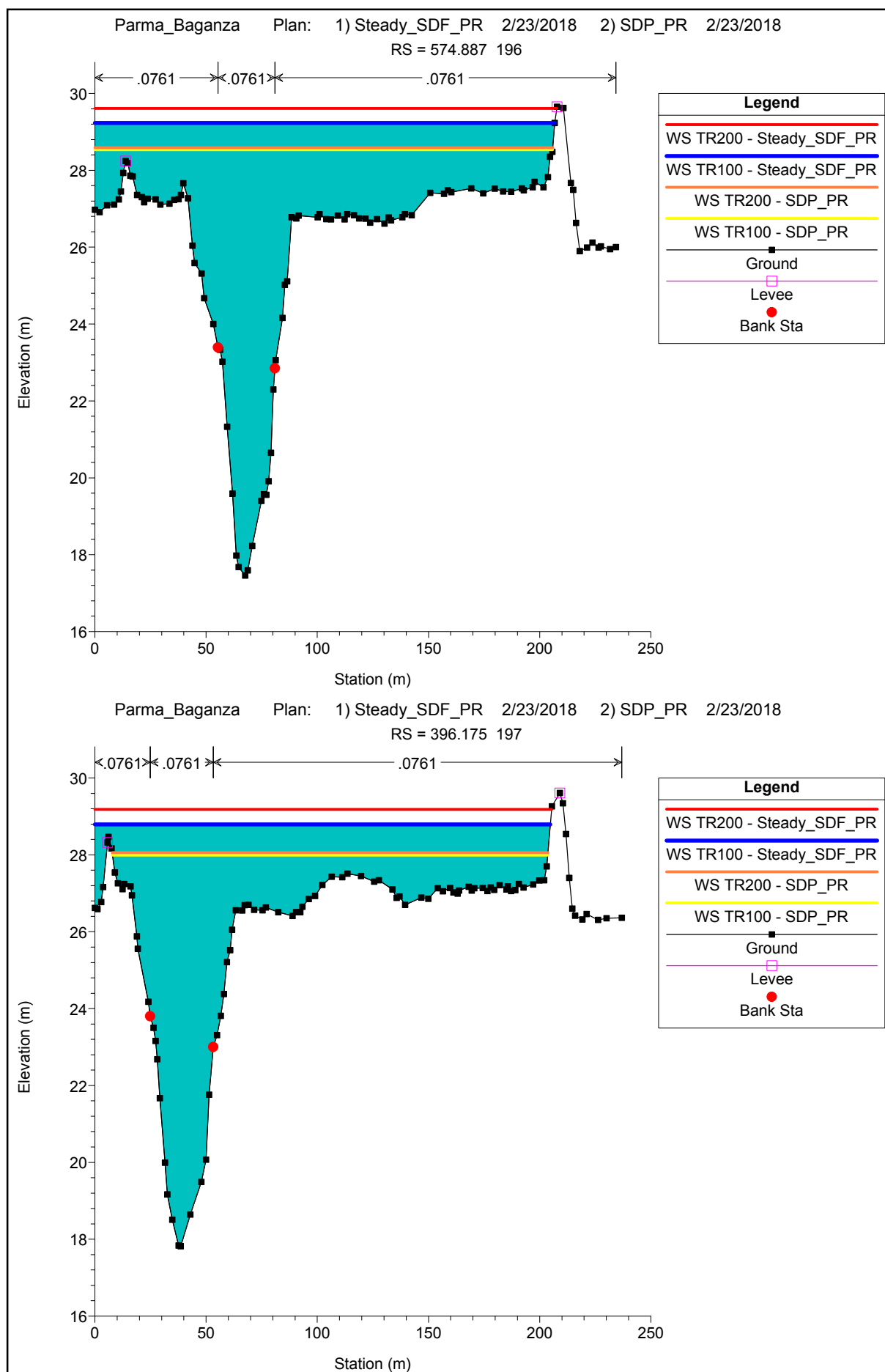


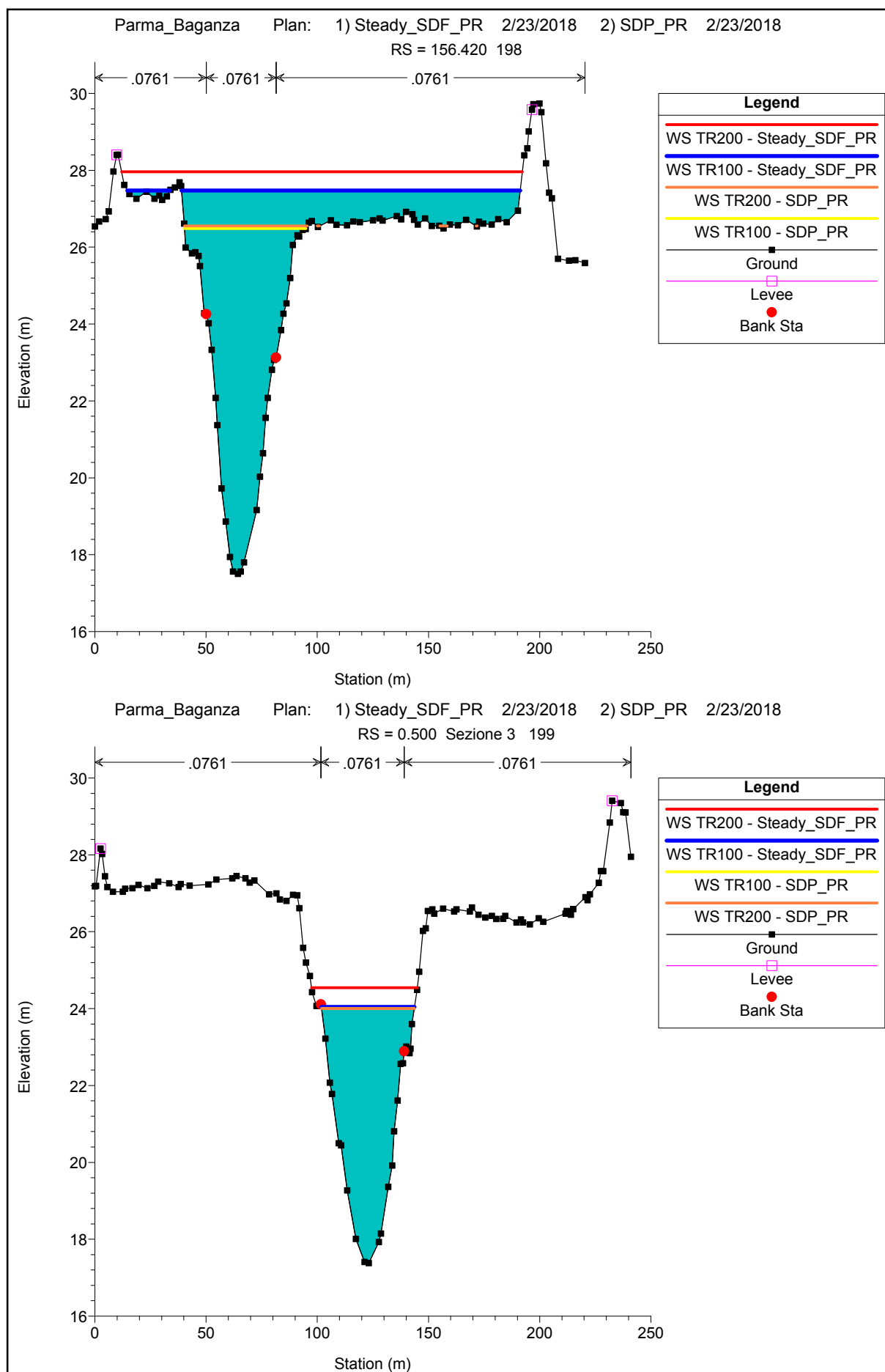










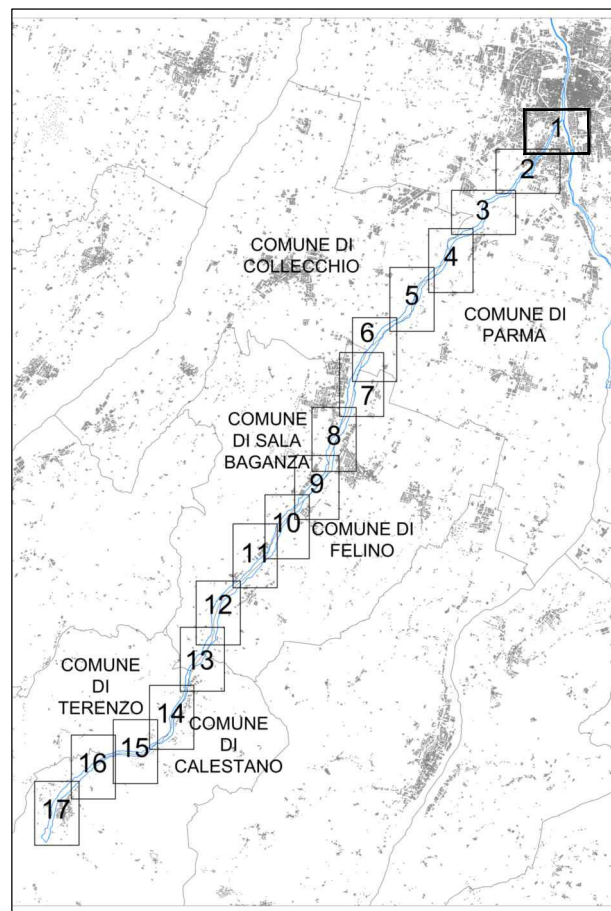


## **APPENDICE 7**

**ATLANTE INQUADRAMENTO SEZIONI IDRAULICHE**

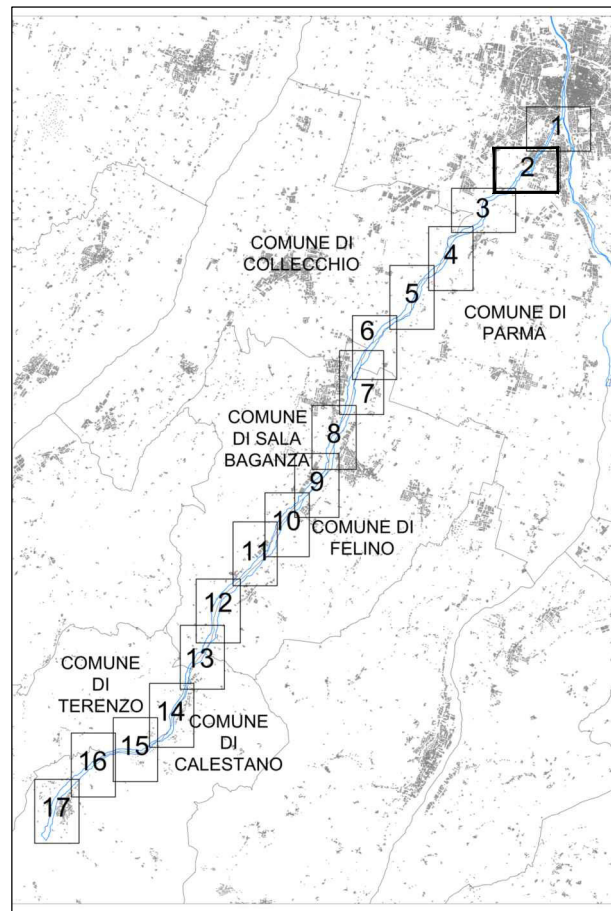
**TORRENTE BAGANZA**





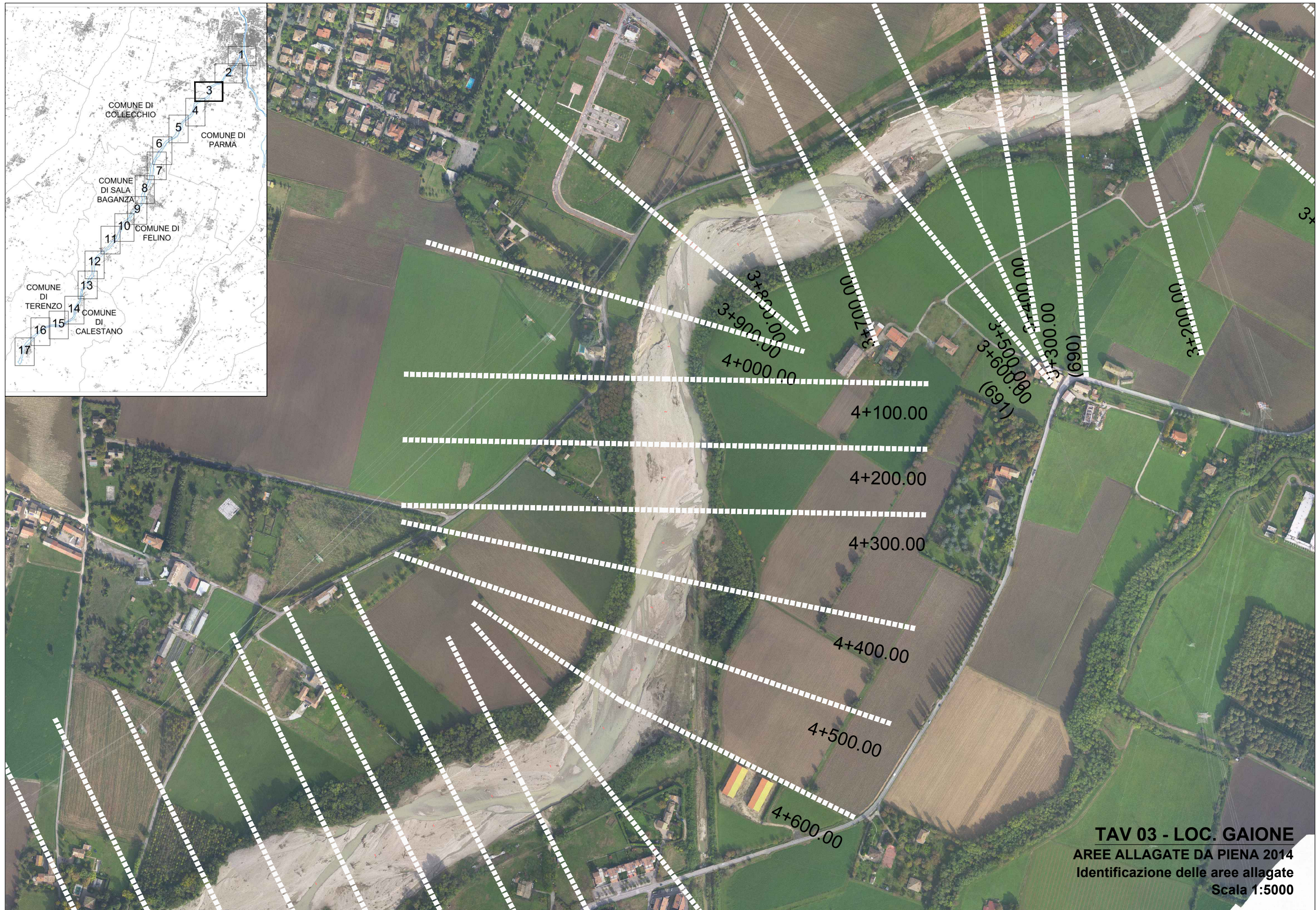
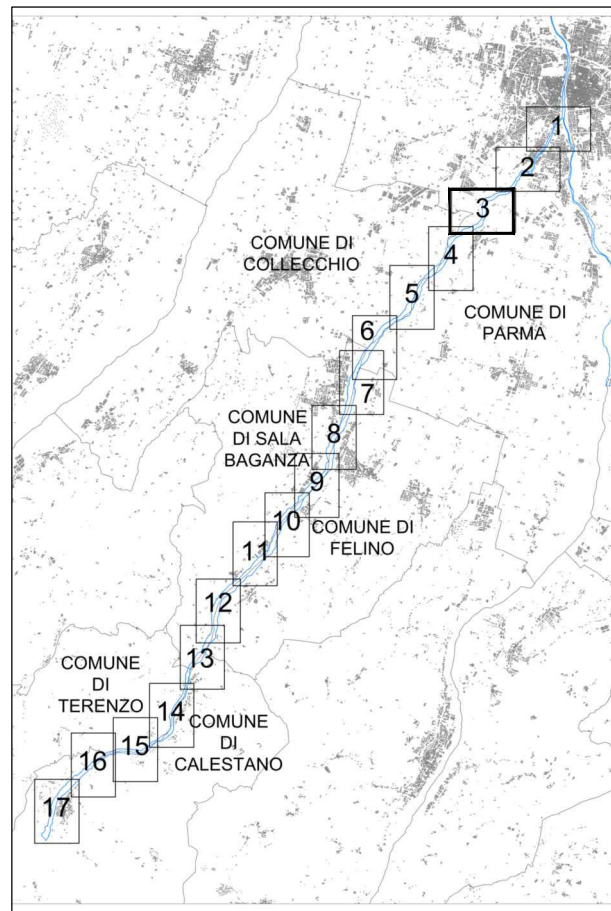
**TAV 01 - CONFLUENZA BAGANZA-PARMA**  
AREE ALLAGATE DA PIENA 2014  
Identificazione delle aree allagate  
Scala 1:5000





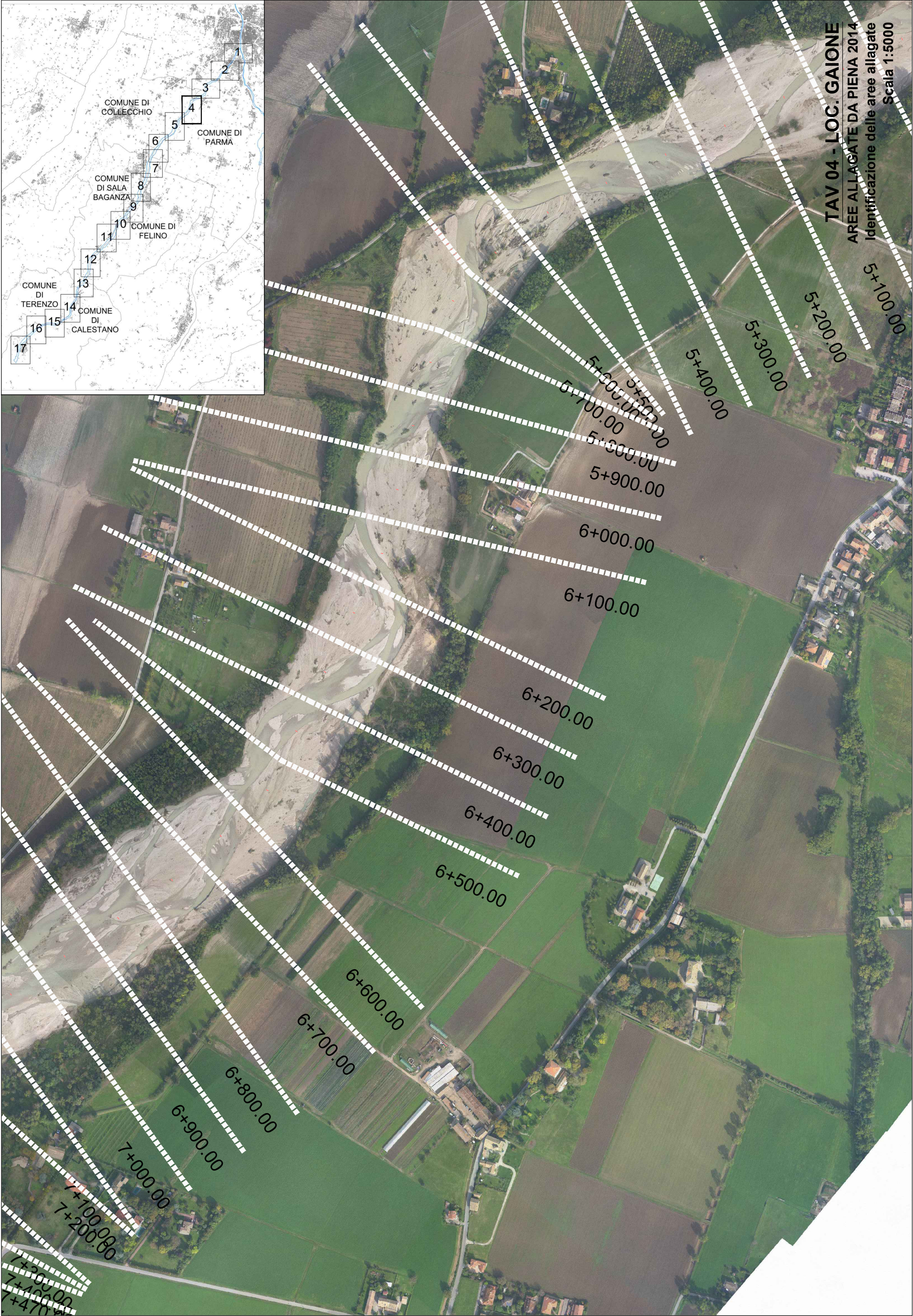
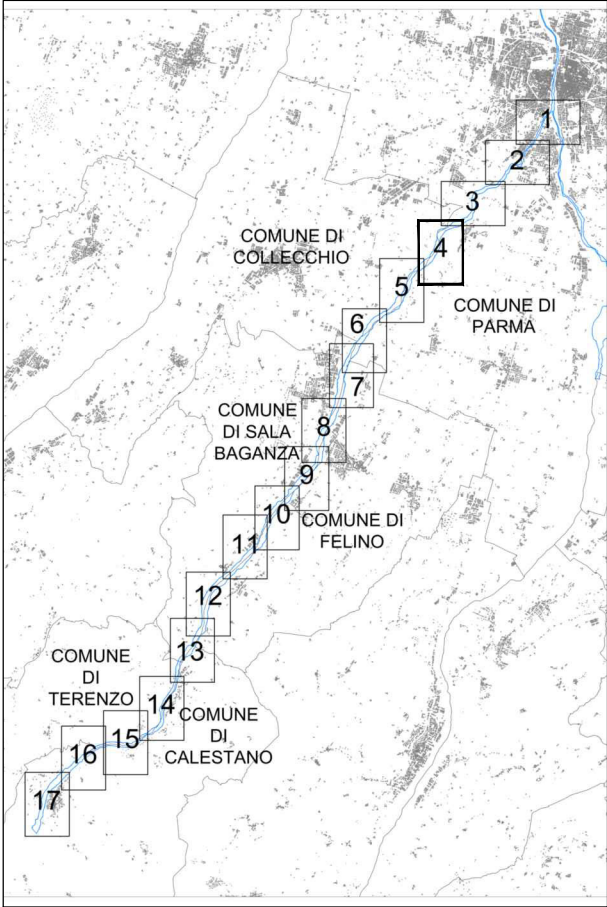
**TAV 02 - ZONA TANGENZIALE**  
AREE ALLAGATE DA PIENA 2014  
Identificazione delle aree allagate  
Scala 1:5000





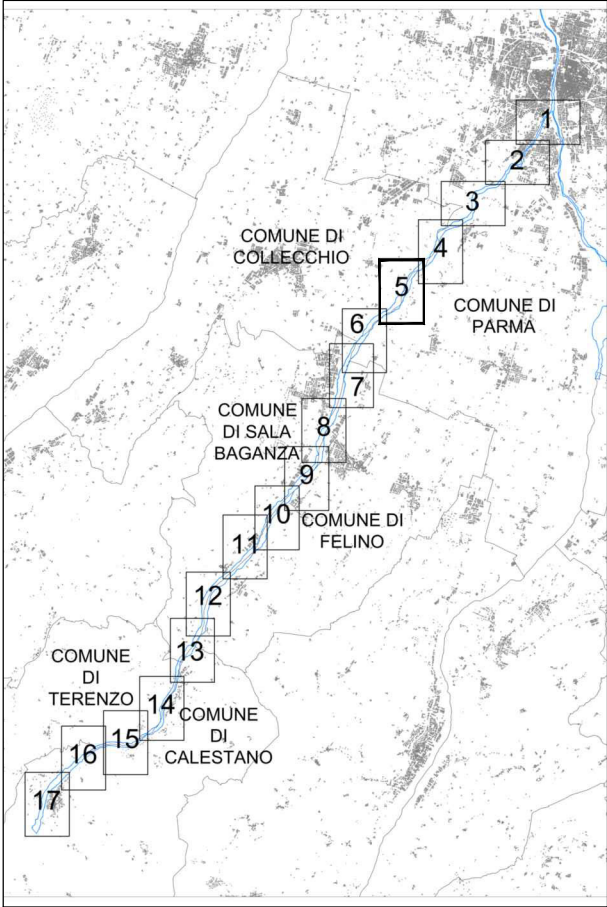
**TAV 03 - LOC. GAIONE**  
AREE ALLAGATE DA PIENA 2014  
Identificazione delle aree allagate  
Scala 1:5000





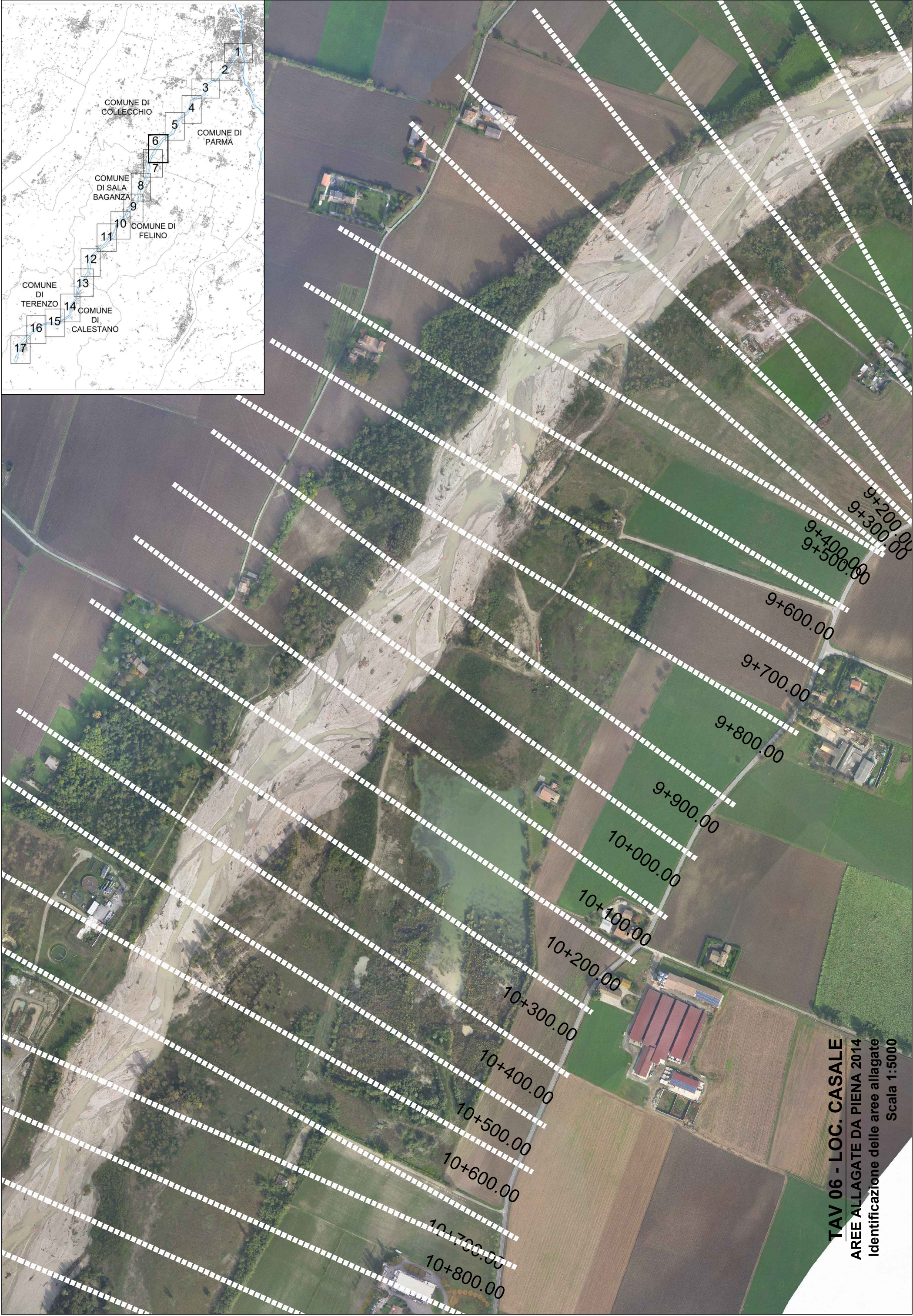
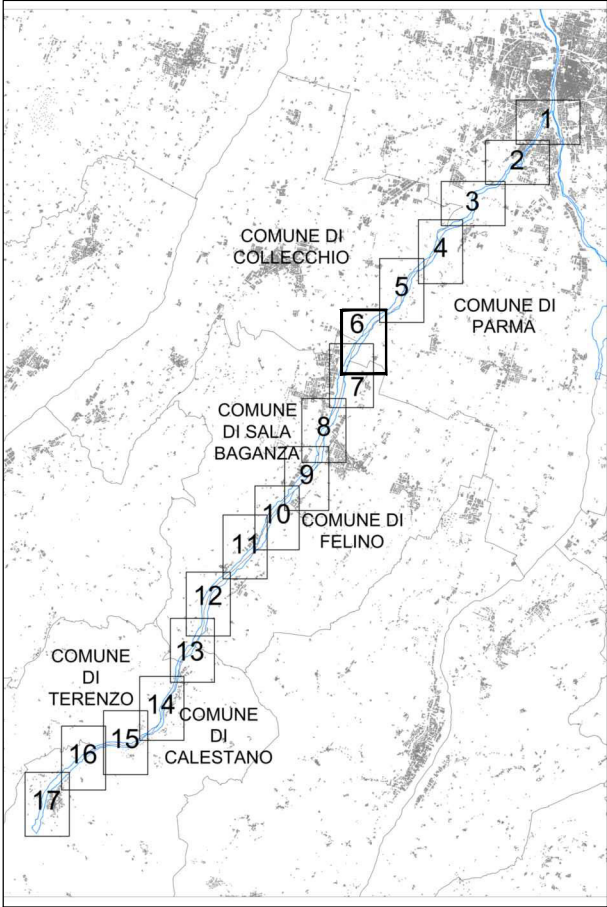
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Identificazione delle aree allagate  
Scala 1:5000





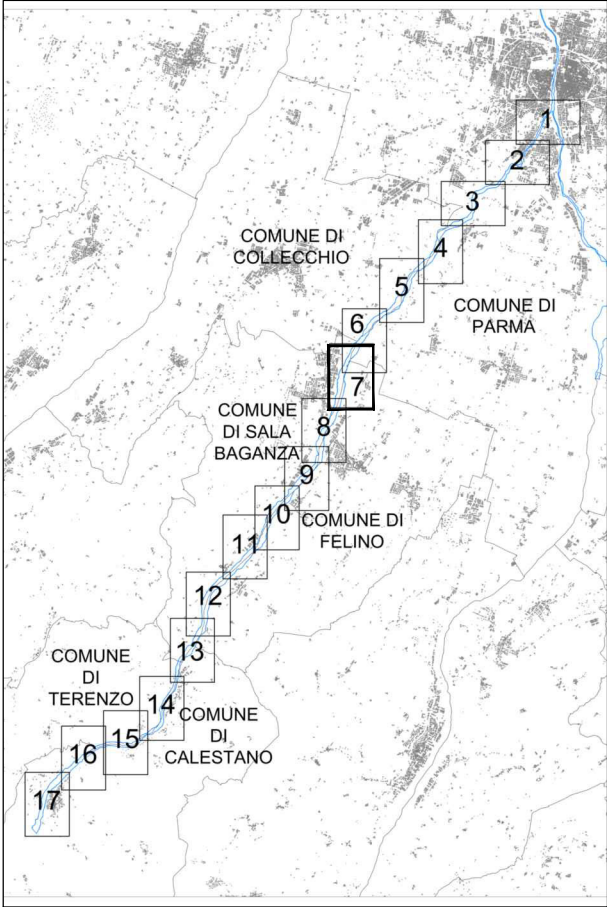
**TAV 05 - LOC. TARCHIONI**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





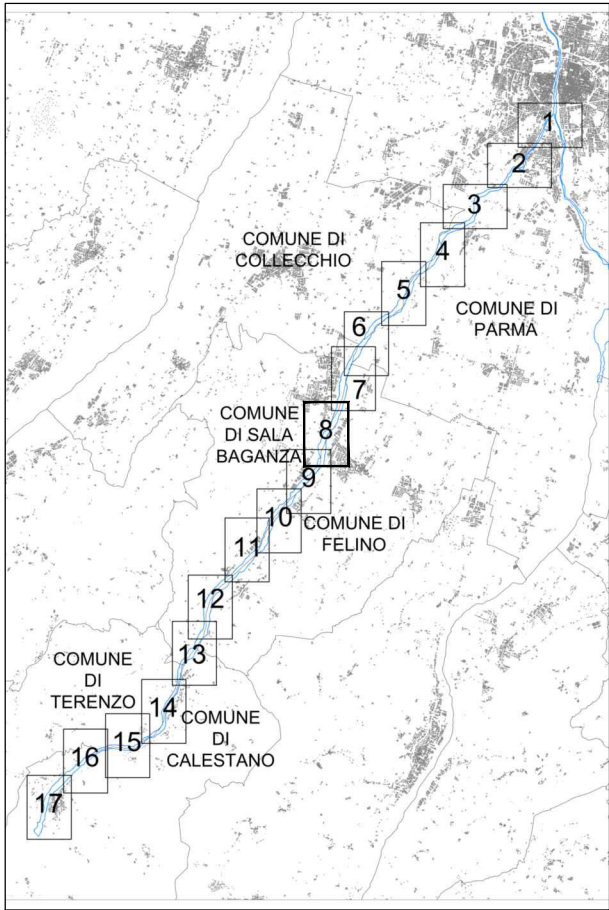
**TAV 06 - LOC. CASALE**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





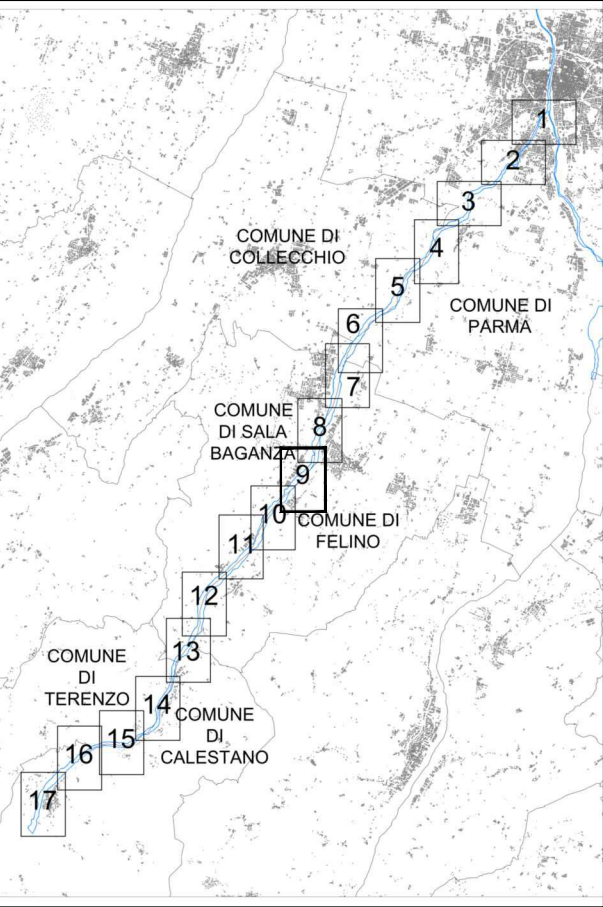
**TAV 07 - LOC. CASALE**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





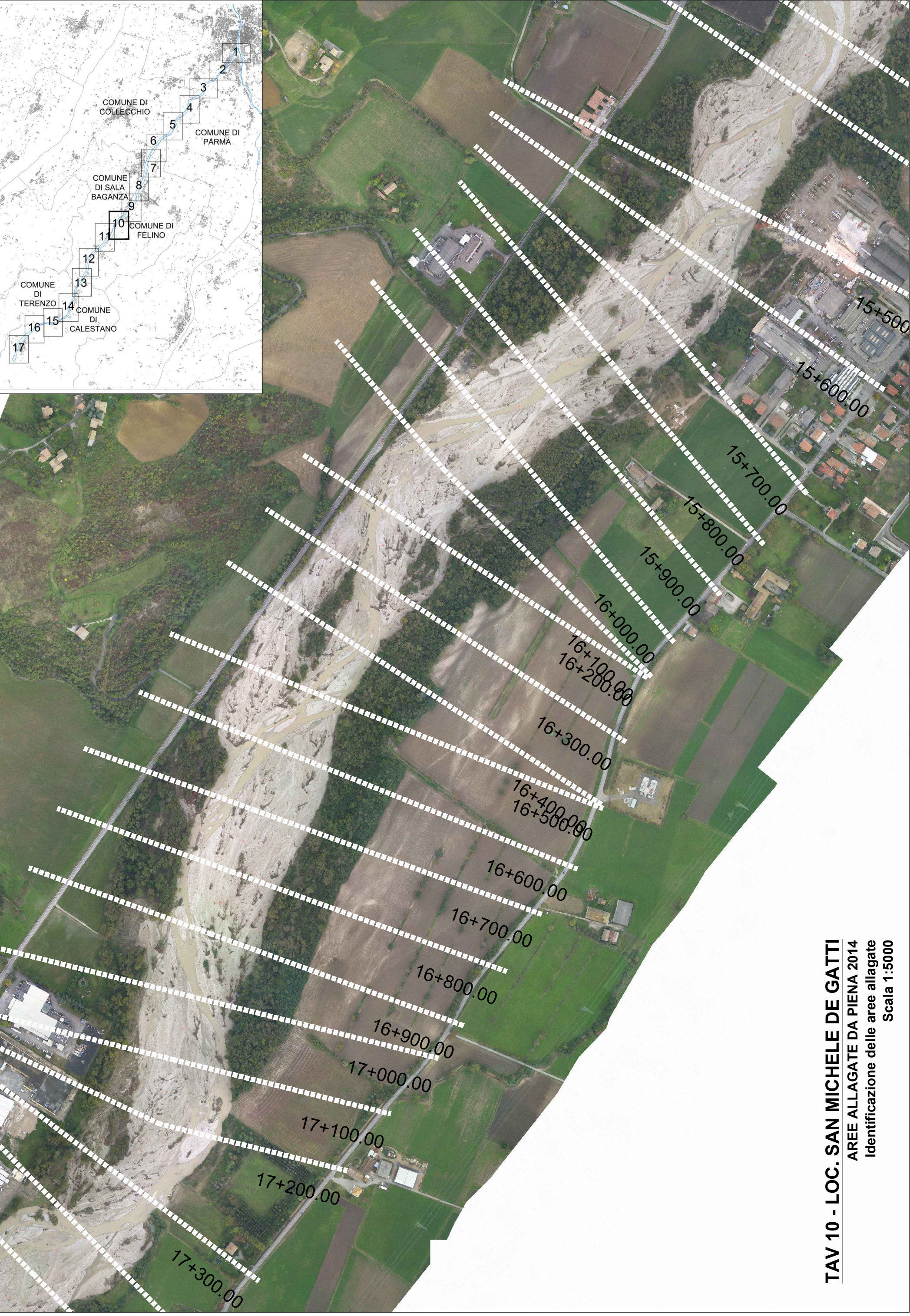
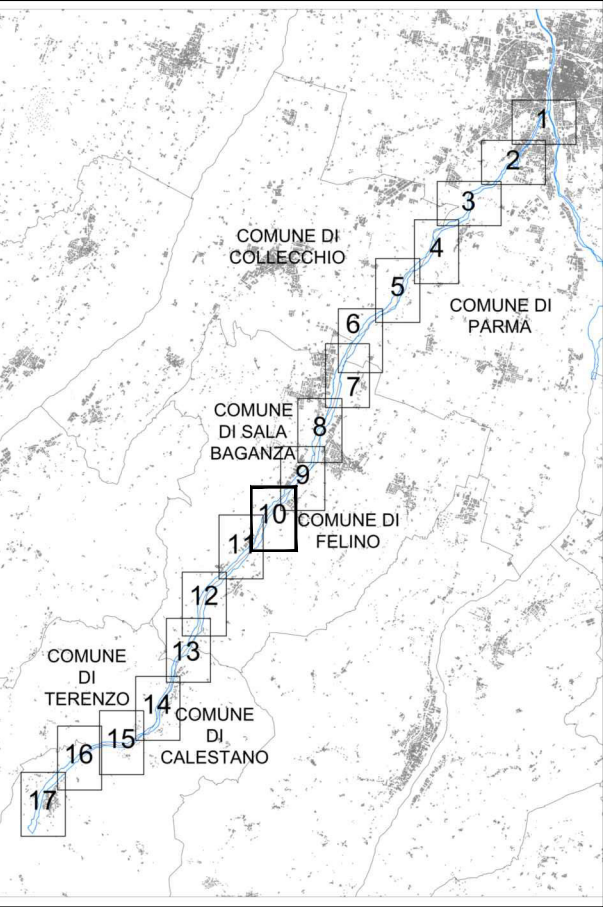
**TAV 08 - LOC. FELINO**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





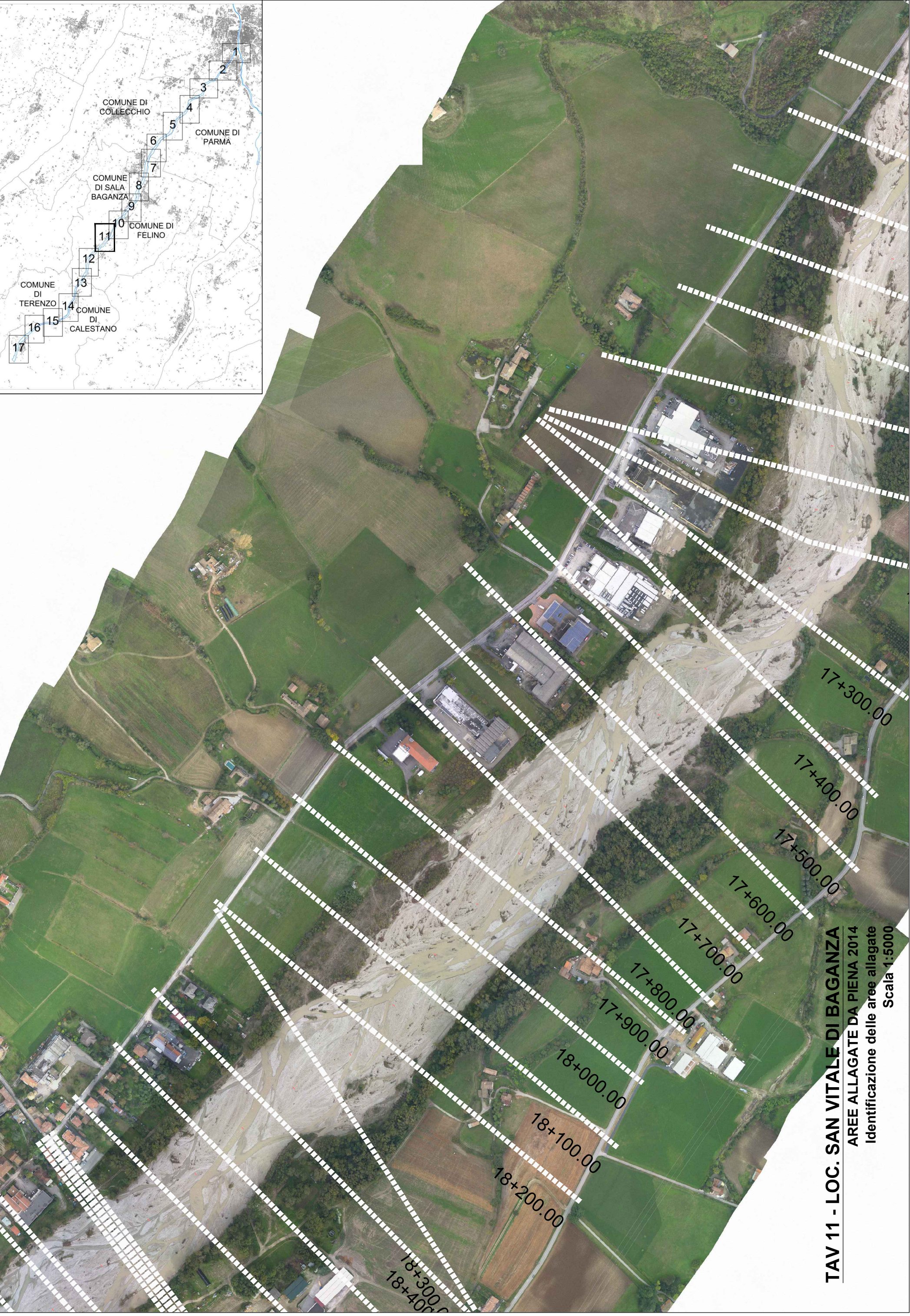
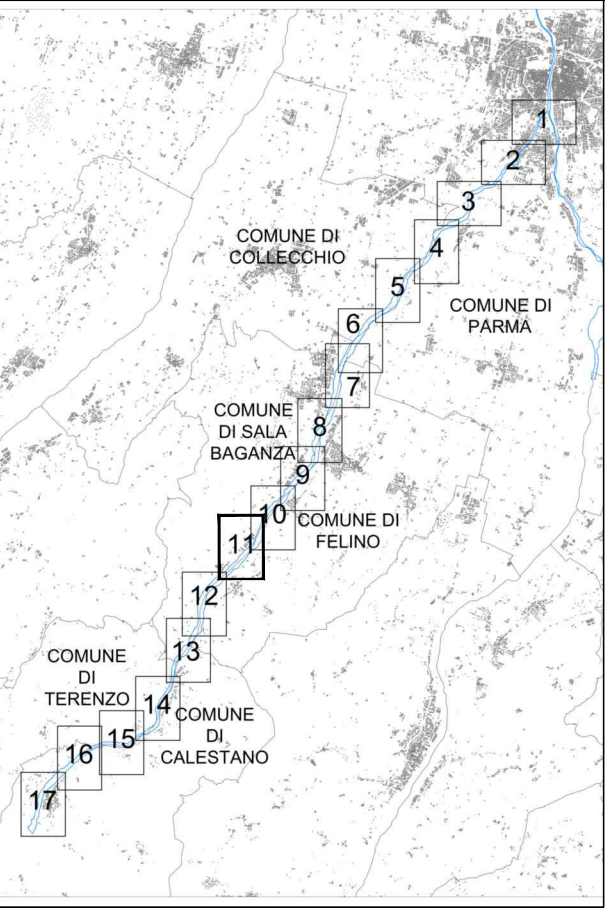
**TAV 09 - LOC. SAN MICHELE DE GATTI**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





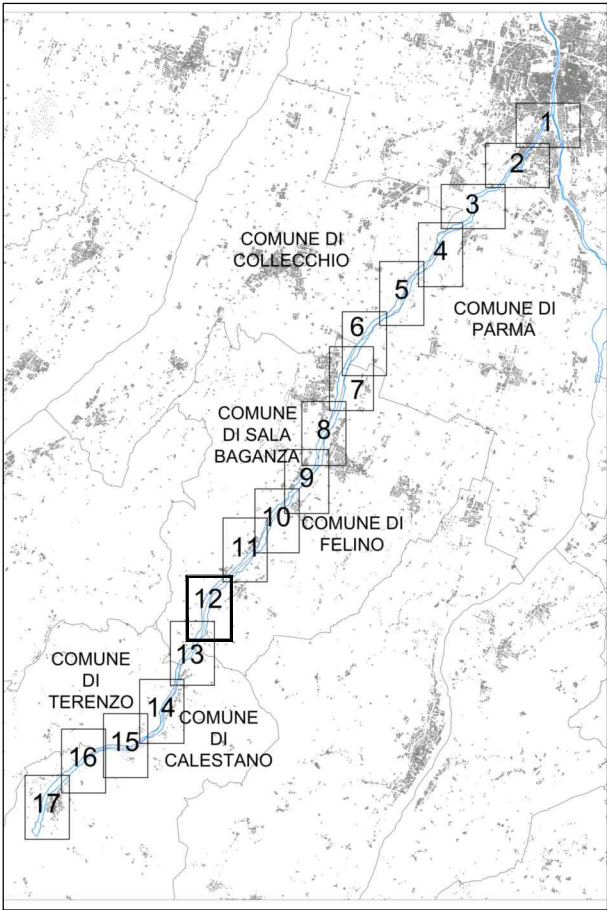
**TAV 10 - LOC. SAN MICHELE DE GATTI**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





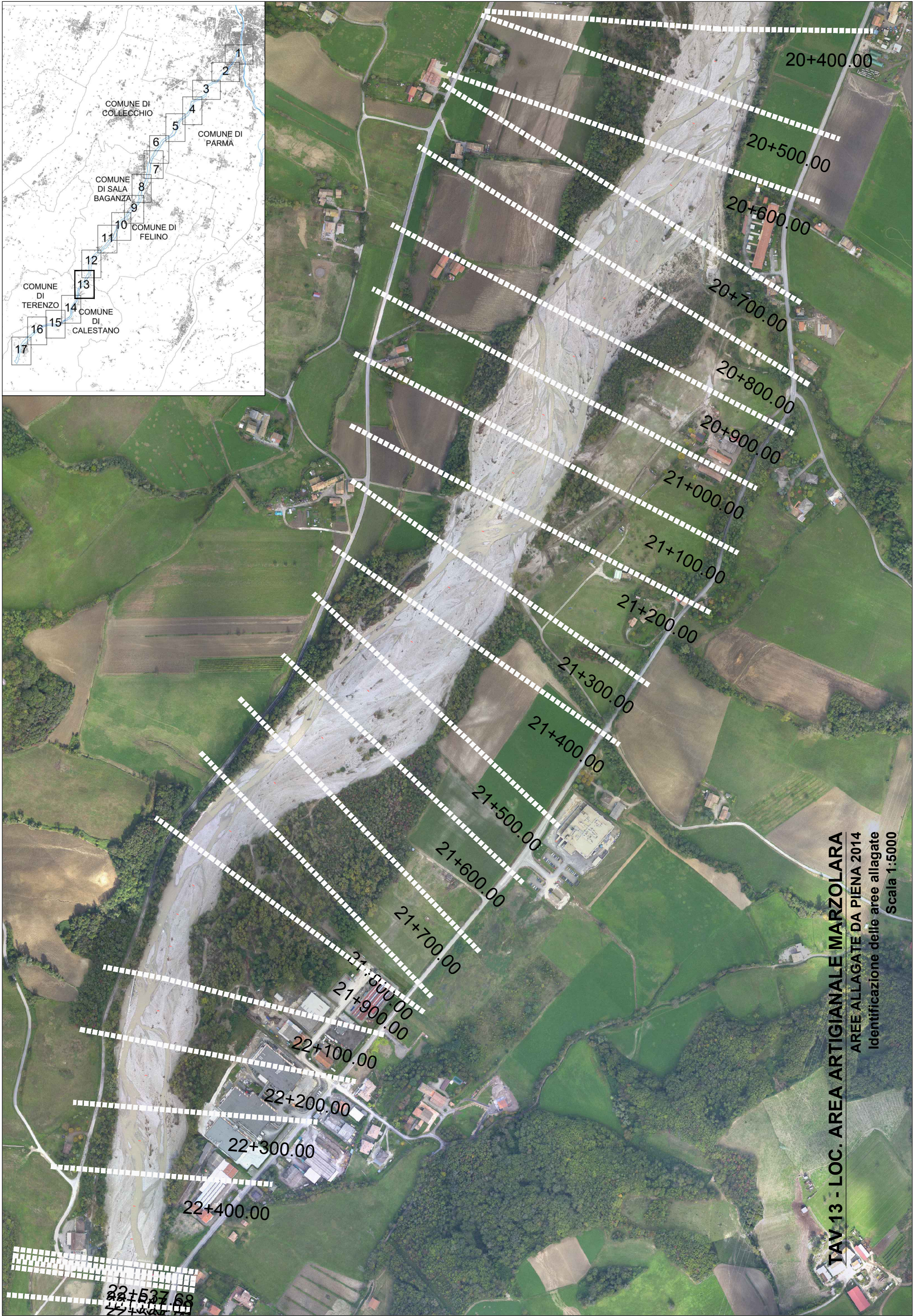
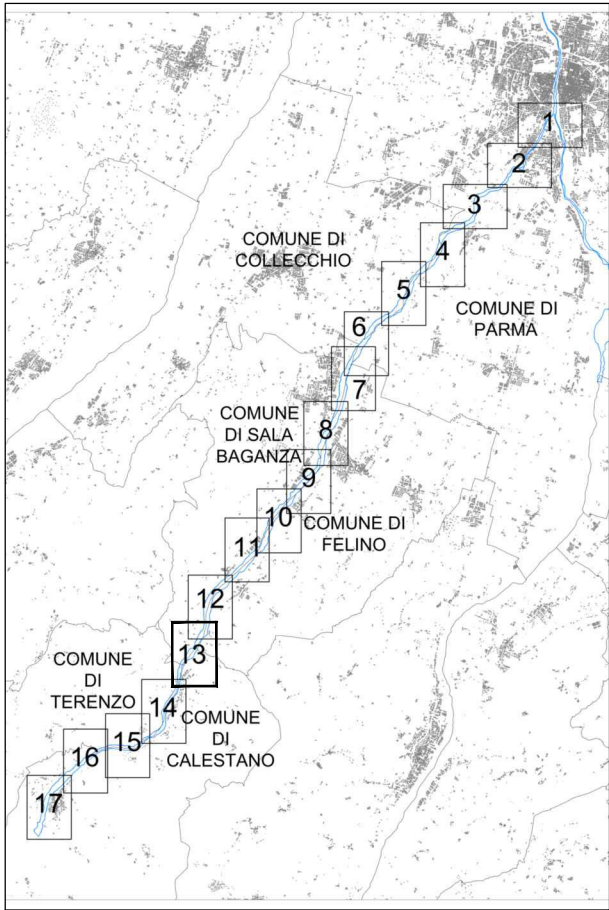
**TAV 11 - LOC. SAN VITALE DI BAGANZA**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





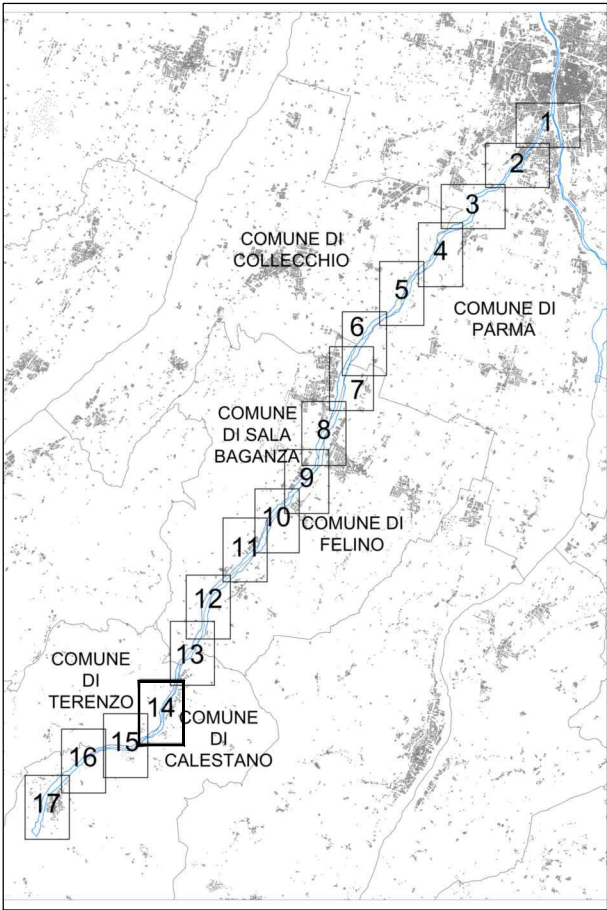
**TAV 12 - LOC. POGGIO**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





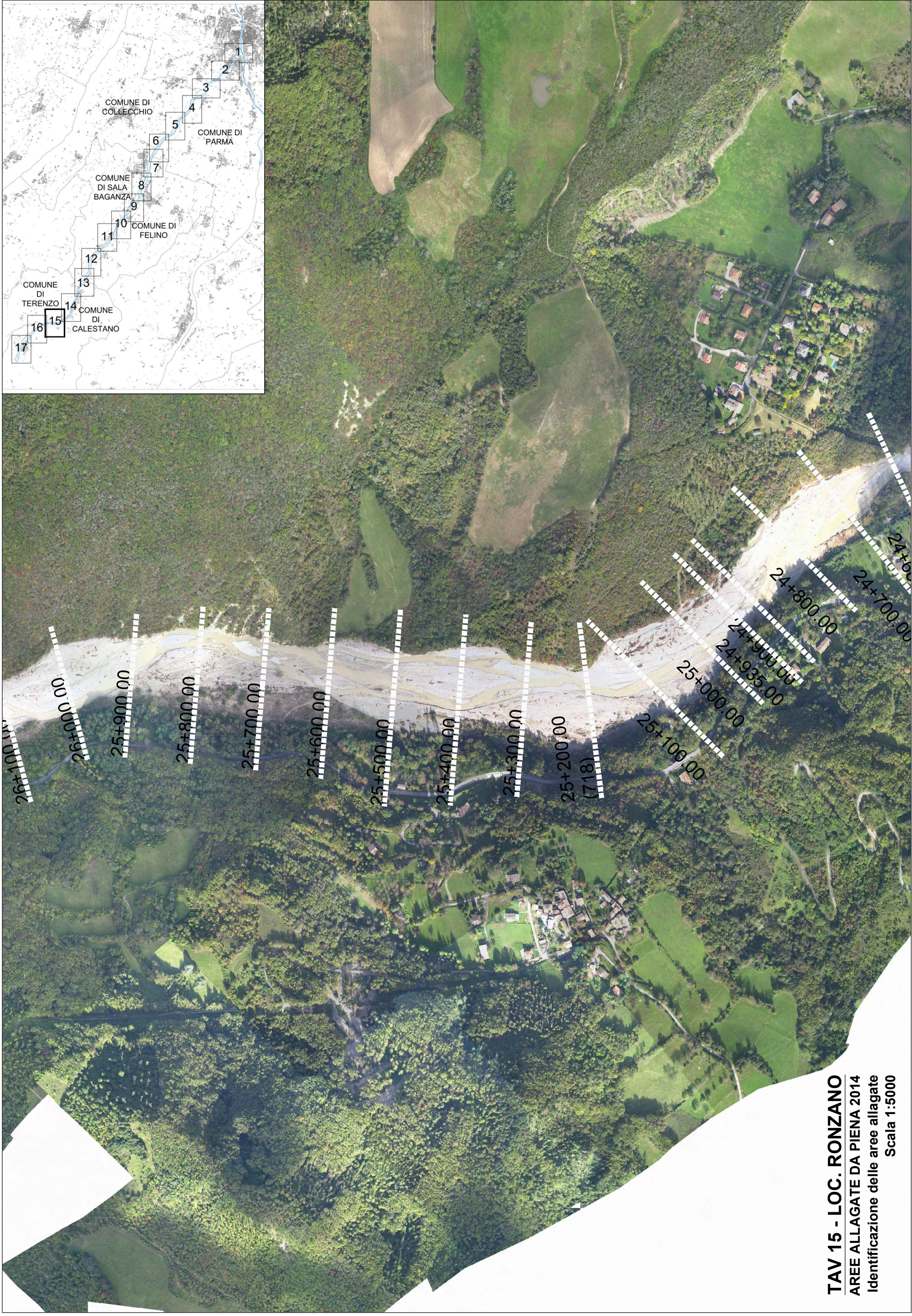
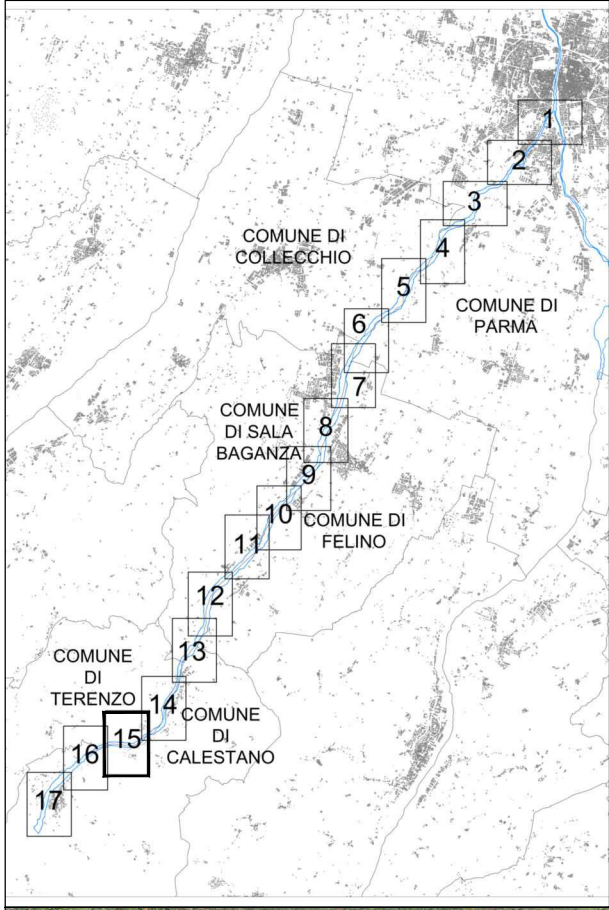
**TAV 13 - LOC. AREA ARTIGIANALE MARZOLARA**  
AREE ALLAGATE DA PIENA 2014  
Identificazione delle aree allagate  
Scala 1:5000





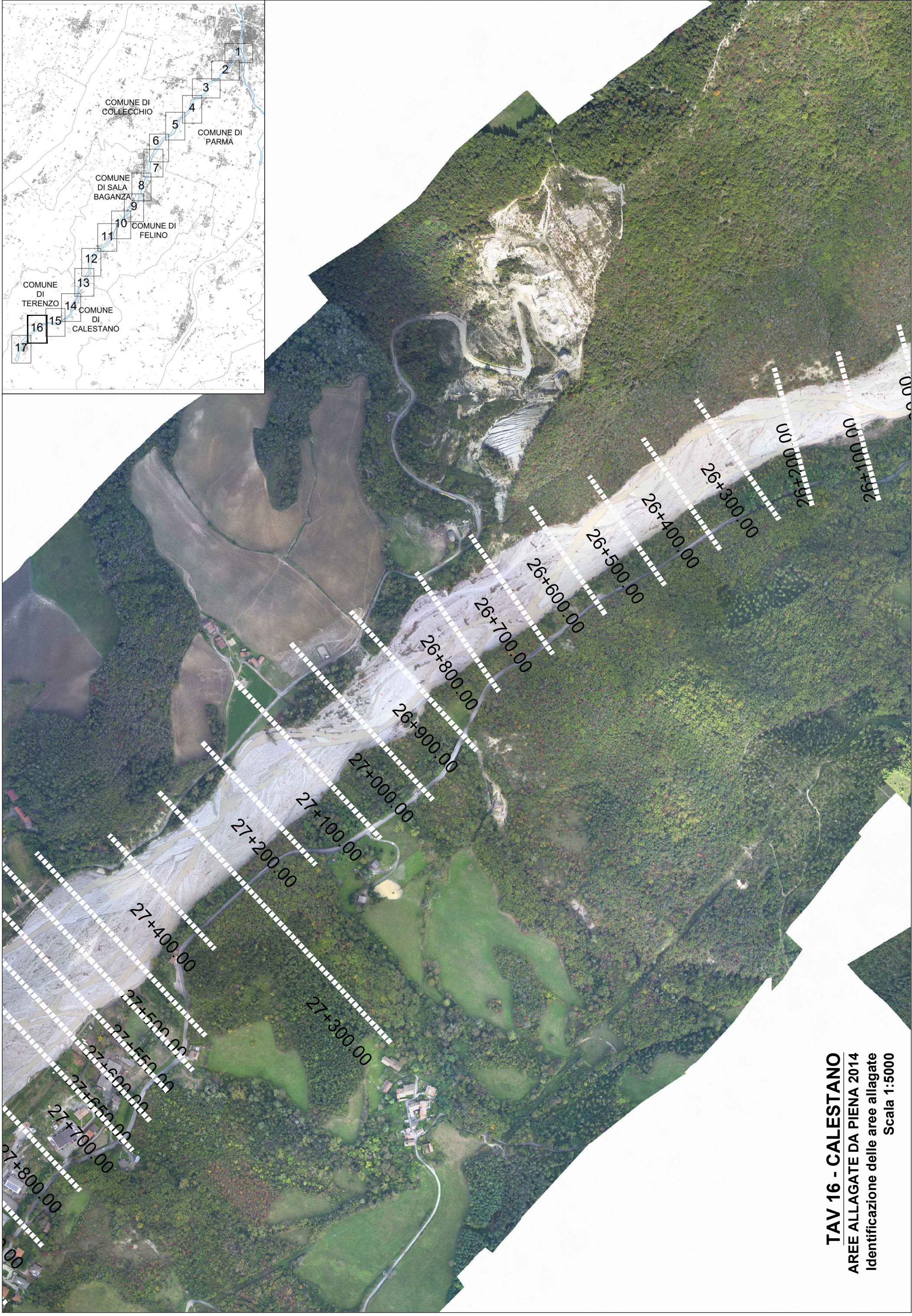
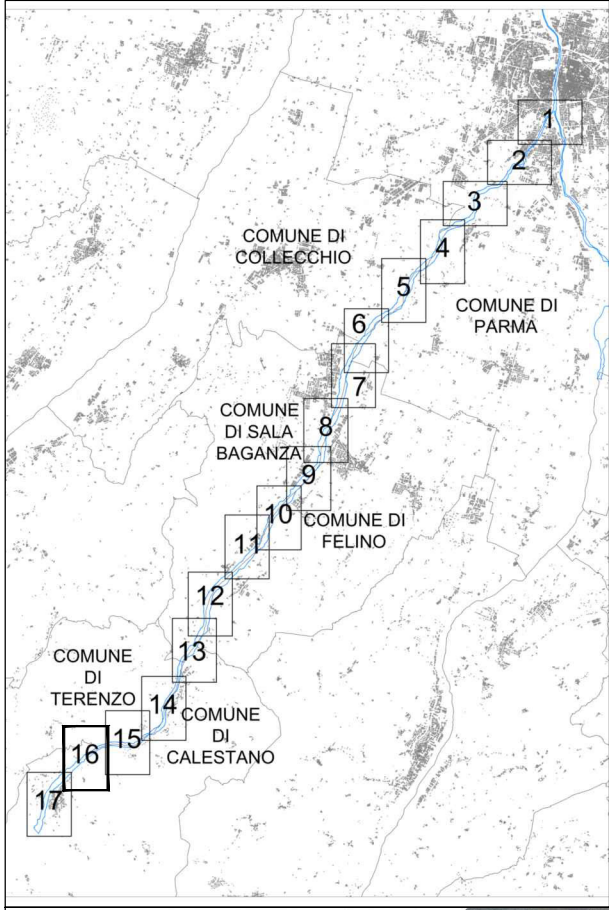
**TAV 14 - MARZOLARA**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





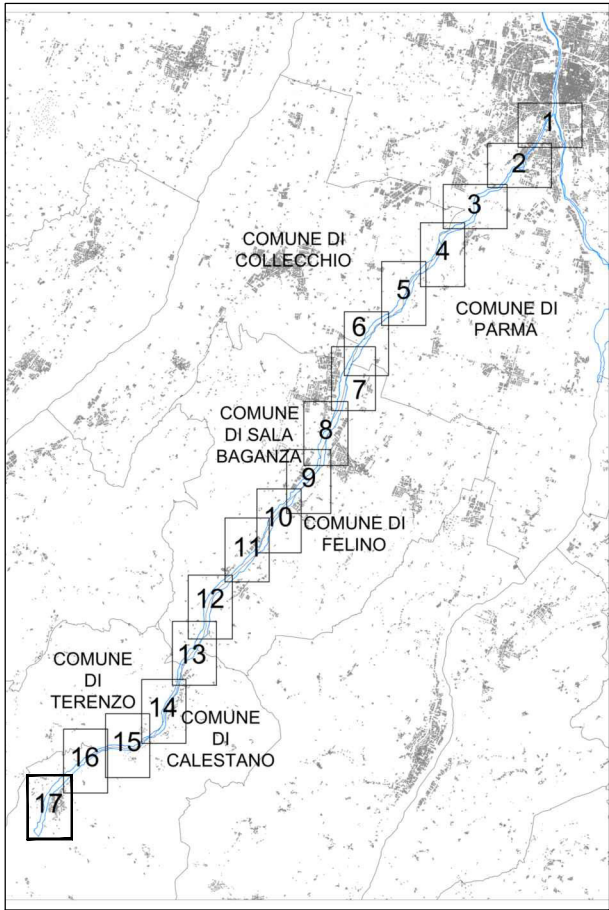
**TAV 15 - LOC. RONZANO**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





**TAV 16 - CALESTANO**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000





**TAV 17 - CALESTANO**  
**AREE ALLAGATE DA PIENA 2014**  
Identificazione delle aree allagate  
Scala 1:5000

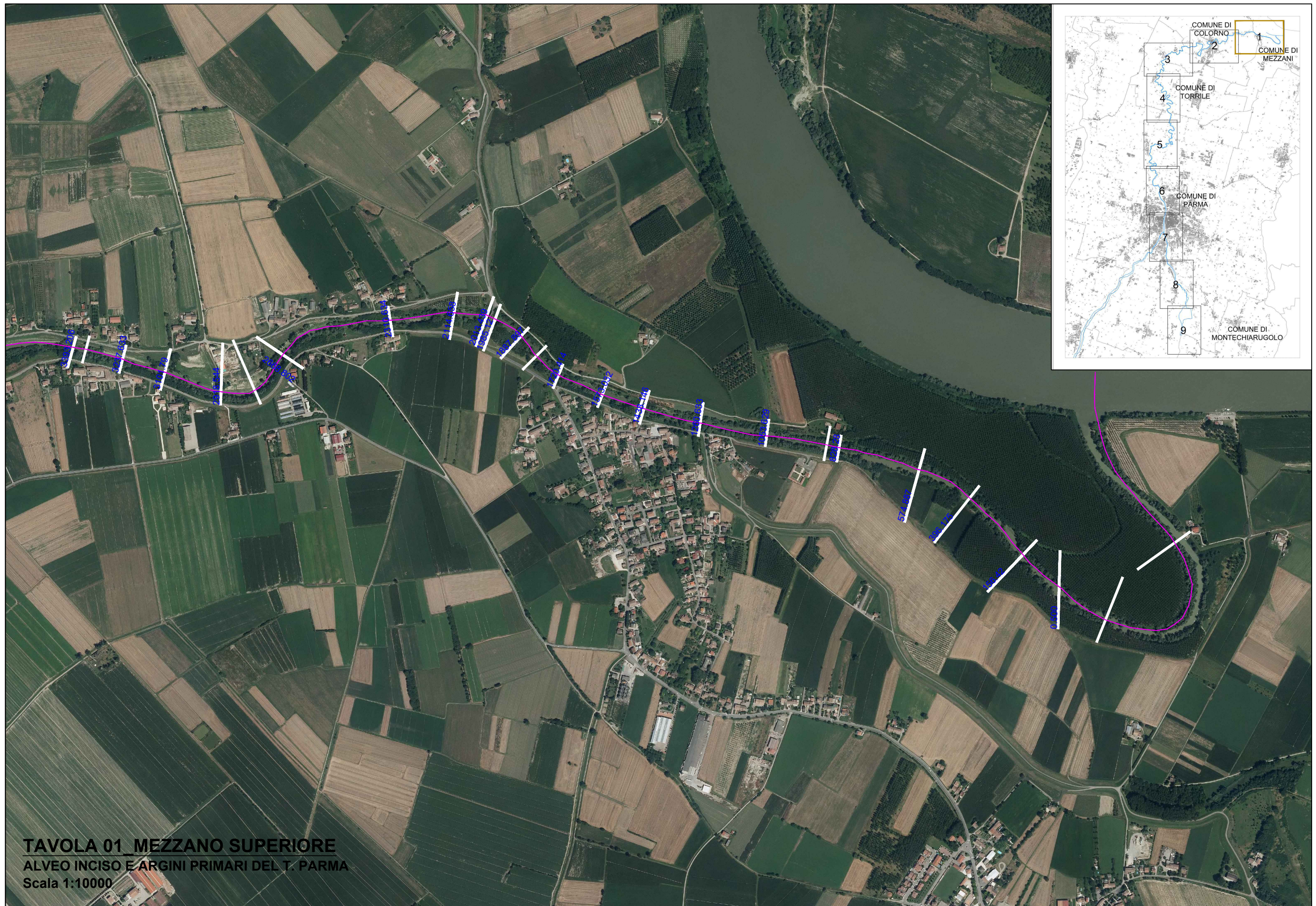


## **APPENDICE 8**

### **ATLANTE INQUADRAMENTO SEZIONI IDRAULICHE**

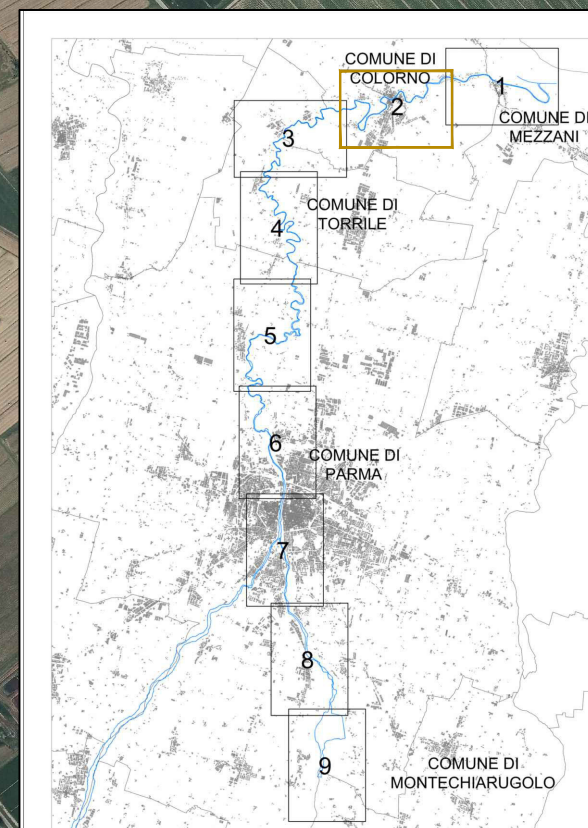
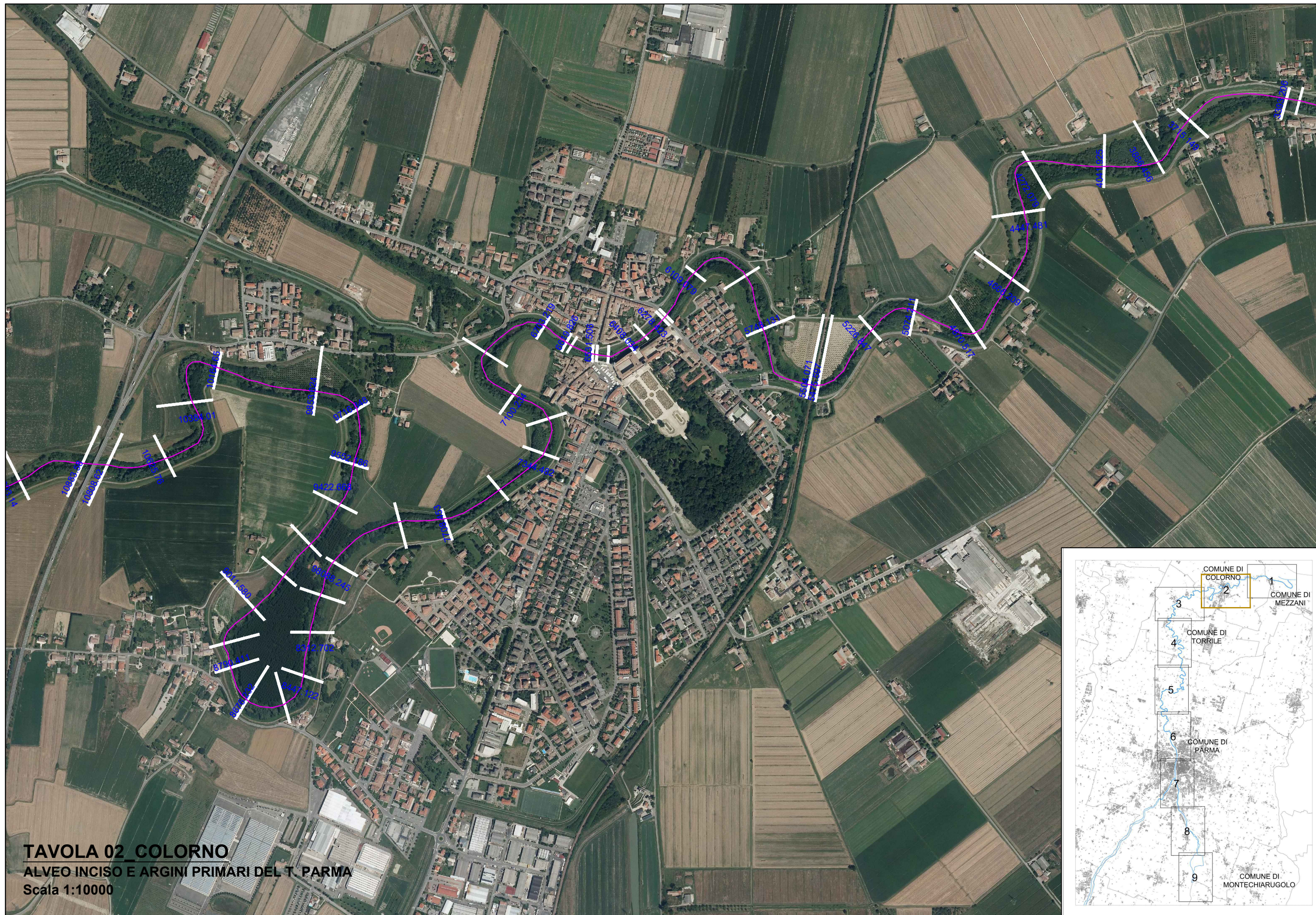
#### **TORRENTE PARMA**



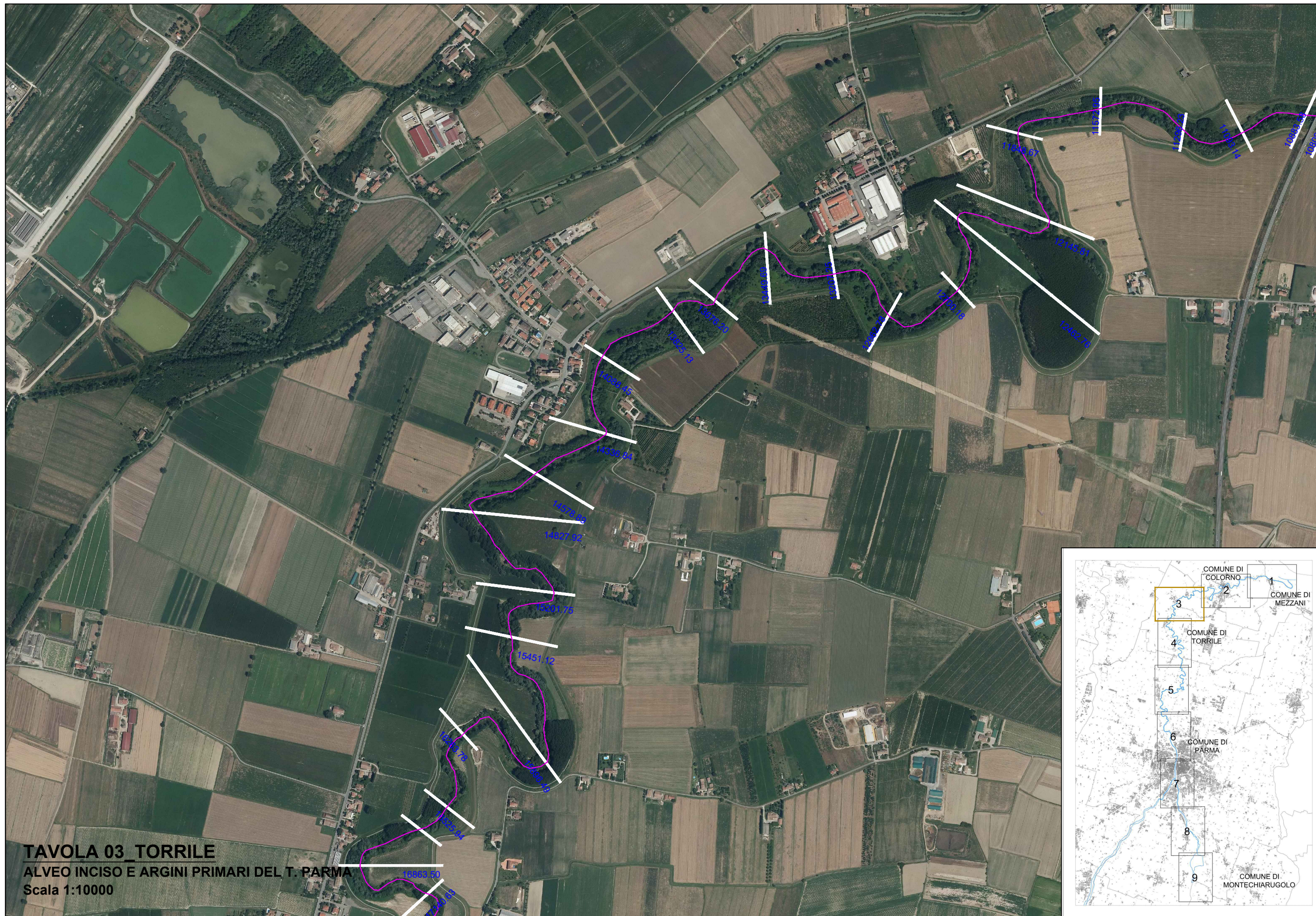


**TAVOLA 01\_ MEZZANO SUPERIORE**  
**ALVEO INCISO E ARGINI PRIMARI DEL T. PARMA**  
Scala 1:10000









**TAVOLA 03\_ TORRILE**

**ALVEO INCISO E ARGINI PRIMARI DEL T. PARMA**

**Scala 1:10000**

