

# 3i Allegato idraulico

## COMUNE DI POGGIBONSI

# PIANO STRUTTURALE

AVVIO DEL PROCEDIMENTO

Dicembre 2011

**Roberto Gori** - *Cartografia e SIT*

**Marco Neri** - *Aspetti ambientali*

**Paolo Rinaldi, Sabrina Santi e  
Massimiliano Nesti** - *Edilizia*

**Tiziana Viti** - *Archivio e segreteria*

**Carla Bimbi** - *Aspetti amministrativi*

**Alessio Gabbrielli** - *Studi idraulici*

**Michele Sani** - *Ind. Geologiche*

**Elisabetta Norci** - *V.A.S. e V.I.*

**Idp progetti gis** - *Sistema  
Informativo*

**Tatiana Marsili** - *Garante della  
comunicazione*

**Paola Todaro** - *Responsabile del  
procedimento*

**Pietro Bucciarelli** - *Coordinatore*

**Giampiero Signorini** - *Assessore  
all'Urbanistica*

**Lucia Coccheri** - *Sindaco*

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HEC-RAS River: FUME ELSA Reach: POGGIB.-CERTALDO Profile: Max WS

Reach	River Sta	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
POGGIB.-CERTALDO	357.3	200-9-SA	693.87	84.05	91.60		92.55	0.004313	4.31	161.13	38.37	0.67
POGGIB.-CERTALDO	357.3	100-9-SA	574.02	84.05	91.14		91.95	0.004168	4.00	143.50	37.68	0.65
POGGIB.-CERTALDO	357.3	30-9-SA	399.12	84.05	90.13		90.83	0.004636	3.72	107.15	34.10	0.67
POGGIB.-CERTALDO	357.2	200-9-SA	693.87	84.05	91.58		92.53	0.004386	4.33	160.22	38.34	0.68
POGGIB.-CERTALDO	357.2	100-9-SA	574.02	84.05	91.12		91.94	0.004239	4.02	142.68	37.63	0.66
POGGIB.-CERTALDO	357.2	30-9-SA	399.12	84.05	90.10		90.82	0.004747	3.76	106.27	34.00	0.68
POGGIB.-CERTALDO	357	200-9-SA	693.83	84.25	91.83		92.00	0.000747	1.82	380.76	94.86	0.29
POGGIB.-CERTALDO	357	100-9-SA	574.41	84.25	91.30		91.45	0.000627	1.71	335.07	88.87	0.27
POGGIB.-CERTALDO	357	30-9-SA	399.19	84.25	90.16		90.29	0.000787	1.63	245.55	76.19	0.29
POGGIB.-CERTALDO	356	200-9-SA	693.80	84.00	91.76		91.94	0.000724	1.85	375.94	89.32	0.29
POGGIB.-CERTALDO	356	100-9-SA	574.26	84.00	91.24		91.39	0.000751	1.74	329.31	87.88	0.29
POGGIB.-CERTALDO	356	30-9-SA	399.15	84.00	90.06		90.22	0.000864	1.74	230.04	68.73	0.30
POGGIB.-CERTALDO	355	200-9-SA	693.75	83.36	91.58		91.78	0.000780	1.98	349.98	79.16	0.30
POGGIB.-CERTALDO	355	100-9-SA	574.23	83.36	91.05		91.23	0.000767	1.86	309.19	76.31	0.29
POGGIB.-CERTALDO	355	30-9-SA	399.13	83.36	89.87		90.03	0.000851	1.77	225.43	64.62	0.30
POGGIB.-CERTALDO	354	200-9-SA	693.75	83.34	91.42		91.73	0.001249	2.45	282.77	65.82	0.38
POGGIB.-CERTALDO	354	100-9-SA	574.16	83.34	90.91		91.18	0.001204	2.29	250.24	62.70	0.37
POGGIB.-CERTALDO	354	30-9-SA	399.12	83.34	89.72		89.97	0.001484	2.22	179.62	55.30	0.39
POGGIB.-CERTALDO	353.9	200-9-SA	693.75	83.34	91.40	88.87	91.71	0.001263	2.46	281.61	65.72	0.38
POGGIB.-CERTALDO	353.9	100-9-SA	574.14	83.34	90.90	88.45	91.17	0.001219	2.30	249.17	62.59	0.37
POGGIB.-CERTALDO	353.9	30-9-SA	399.13	83.34	89.70	87.65	89.95	0.001513	2.24	178.44	55.17	0.40
POGGIB.-CERTALDO	353.5		Bridge									
POGGIB.-CERTALDO	353.1	200-9-SA	693.74	83.34	91.37		91.68	0.001294	2.48	279.23	65.49	0.38
POGGIB.-CERTALDO	353.1	100-9-SA	574.13	83.34	90.86		91.14	0.001248	2.32	247.05	62.38	0.37
POGGIB.-CERTALDO	353.1	30-9-SA	399.13	83.34	89.66		89.92	0.001568	2.27	176.21	54.92	0.40
POGGIB.-CERTALDO	353	200-9-SA	693.74	82.70	91.40		91.67	0.000898	2.29	302.71	59.54	0.32
POGGIB.-CERTALDO	353	100-9-SA	574.14	82.70	90.90		91.13	0.000822	2.10	273.53	57.50	0.31
POGGIB.-CERTALDO	353	30-9-SA	399.13	82.70	89.72		89.91	0.000872	1.92	208.18	52.65	0.31
POGGIB.-CERTALDO	352	200-9-SA	693.74	82.60	91.42		91.61	0.000651	1.93	360.04	72.17	0.28
POGGIB.-CERTALDO	352	100-9-SA	574.17	82.60	90.92		91.08	0.000615	1.77	323.72	70.62	0.26
POGGIB.-CERTALDO	352	30-9-SA	399.13	82.60	89.71		89.85	0.000696	1.66	241.06	64.24	0.27
POGGIB.-CERTALDO	351	200-9-SA	693.73	81.90	91.04		91.42	0.001373	2.73	254.50	51.62	0.39
POGGIB.-CERTALDO	351	100-9-SA	574.15	81.90	90.58		90.89	0.001256	2.49	231.00	50.56	0.37
POGGIB.-CERTALDO	351	30-9-SA	399.12	81.90	89.40		89.67	0.001110	2.29	174.61	39.27	0.35
POGGIB.-CERTALDO	350.99		Lat Struct									
POGGIB.-CERTALDO	350.66	200-9-SA	685.03	82.08	90.82		91.27	0.001598	2.98	229.90	44.19	0.42
POGGIB.-CERTALDO	350.66	100-9-SA	570.36	82.08	90.39		90.76	0.001428	2.71	210.84	43.45	0.39
POGGIB.-CERTALDO	350.66	30-9-SA	399.12	82.08	89.22		89.53	0.001541	2.48	161.22	41.18	0.40
POGGIB.-CERTALDO	350.33	200-9-SA	627.47	81.63	90.89		91.20	0.001282	2.49	251.63	52.70	0.36
POGGIB.-CERTALDO	350.33	100-9-SA	533.22	81.63	90.39		90.67	0.001291	2.36	225.65	51.94	0.36
POGGIB.-CERTALDO	350.33	30-9-SA	399.12	81.63	89.06		89.38	0.001595	2.50	159.87	39.38	0.40
POGGIB.-CERTALDO	350	200-9-SA	586.69	81.70	90.87		91.17	0.001120	2.42	242.62	48.84	0.35
POGGIB.-CERTALDO	350	100-9-SA	512.24	81.70	90.34		90.62	0.001180	2.36	216.90	47.43	0.35
POGGIB.-CERTALDO	350	30-9-SA	399.11	81.70	88.93		89.28	0.001990	2.61	152.67	43.17	0.44
POGGIB.-CERTALDO	349.99		Lat Struct									
POGGIB.-CERTALDO	349	200-9-SA	813.25	81.40	90.44		90.86	0.001320	2.86	284.67	51.05	0.39
POGGIB.-CERTALDO	349	100-9-SA	700.21	81.40	89.97		90.34	0.001241	2.68	261.02	49.43	0.37
POGGIB.-CERTALDO	349	30-9-SA	507.91	81.40	88.67		89.00	0.001307	2.54	199.71	43.08	0.38
POGGIB.-CERTALDO	348.99		Lat Struct									
POGGIB.-CERTALDO	348.9	200-9-SA	810.43	81.40	90.44		90.85	0.001316	2.85	284.21	51.02	0.39
POGGIB.-CERTALDO	348.9	100-9-SA	701.38	81.40	89.96		90.33	0.001256	2.70	260.18	49.37	0.37
POGGIB.-CERTALDO	348.9	30-9-SA	507.88	81.40	88.66		88.99	0.001314	2.55	199.06	42.88	0.38
POGGIB.-CERTALDO	348.5	200-9-SA	893.76	81.24	89.62		90.25	0.003331	3.52	253.64	68.01	0.58
POGGIB.-CERTALDO	348.5	100-9-SA	737.76	81.24	89.32		89.83	0.002943	3.16	233.71	67.69	0.54
POGGIB.-CERTALDO	348.5	30-9-SA	507.06	81.24	88.14		88.63	0.002037	3.09	164.14	51.99	0.46
POGGIB.-CERTALDO	348.48		Lat Struct									
POGGIB.-CERTALDO	348	200-9-SA	875.41	80.83	89.14		89.86	0.005336	3.77	232.49	82.46	0.72
POGGIB.-CERTALDO	348	100-9-SA	730.90	80.83	88.83		89.46	0.005090	3.54	206.76	77.85	0.69
POGGIB.-CERTALDO	348	30-9-SA	506.34	80.83	87.91		88.41	0.002458	3.15	160.50	39.40	0.50
POGGIB.-CERTALDO	347.5	200-9-SA	864.84	79.61	89.39		89.54	0.000981	1.76	490.68	150.50	0.31
POGGIB.-CERTALDO	347.5	100-9-SA	730.23	79.61	89.01		89.16	0.001045	1.68	434.26	150.49	0.32
POGGIB.-CERTALDO	347.5	30-9-SA	506.93	79.61	88.09		88.24	0.001129	1.68	302.15	128.06	0.32
POGGIB.-CERTALDO	347.49		Lat Struct									
POGGIB.-CERTALDO	347	200-9-SA	791.86	81.20	88.92		89.29	0.001666	2.69	294.77	72.42	0.43
POGGIB.-CERTALDO	347	100-9-SA	700.47	81.20	88.55		88.90	0.001769	2.61	267.95	72.42	0.43
POGGIB.-CERTALDO	347	30-9-SA	505.87	81.20	87.71		88.01	0.001699	2.42	209.05	62.34	0.42
POGGIB.-CERTALDO	346.5	200-9-SA	676.93	79.50	89.00		89.04	0.000173	0.93	728.87	165.56	0.14
POGGIB.-CERTALDO	346.5	100-9-SA	612.15	79.50	88.63		88.67	0.000189	0.92	667.61	165.56	0.15
POGGIB.-CERTALDO	346.5	30-9-SA	494.34	79.50	87.77		87.81	0.000269	0.94	525.60	165.56	0.17
POGGIB.-CERTALDO	346	200-9-SA	624.48	80.80	88.38		89.14	0.002755	3.87	161.45	27.07	0.51
POGGIB.-CERTALDO	346	100-9-SA	555.00	80.80	88.08		88.75	0.002529	3.62	153.24	26.97	0.48

HEC-RAS River: FUME ELSA Reach: POGGIB.-CERTALDO Profile: Max WS (Continued)

Reach	River Sta	Plan	Q Total (m <sup>3</sup> /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 (m <sup>2</sup> )	Top Width (m)	Froude # Chl
POGGIB.-CERTALDO	346	30-9-SA	480.21	80.80	87.10		87.83	0.003259	3.78	127.19	26.63	0.55
POGGIB.-CERTALDO	345.98		Lat Struct									
POGGIB.-CERTALDO	345.5	200-9-SA	640.85	79.47	88.65		88.78	0.000632	1.60	401.07	105.71	0.26
POGGIB.-CERTALDO	345.5	100-9-SA	565.16	79.47	88.30		88.42	0.000557	1.54	367.14	92.75	0.25
POGGIB.-CERTALDO	345.5	30-9-SA	499.90	79.47	87.27		87.43	0.000894	1.79	279.41	80.76	0.31
POGGIB.-CERTALDO	345	200-9-SA	635.36	79.80	88.44		88.61	0.001401	1.82	348.65	140.75	0.37
POGGIB.-CERTALDO	345	100-9-SA	599.71	79.80	87.99		88.21	0.001854	2.08	287.84	117.01	0.42
POGGIB.-CERTALDO	345	30-9-SA	501.27	79.80	86.92		87.23	0.001594	2.47	202.78	55.66	0.41
POGGIB.-CERTALDO	344.5	200-9-SA	697.36	79.03	87.99		88.35	0.001540	2.86	261.74	58.47	0.40
POGGIB.-CERTALDO	344.5	100-9-SA	632.12	79.03	87.55		87.92	0.001728	2.68	236.23	57.55	0.42
POGGIB.-CERTALDO	344.5	30-9-SA	501.62	79.03	86.58		86.96	0.002027	2.73	183.66	48.54	0.45
POGGIB.-CERTALDO	344	200-9-SA	739.30	79.80	87.55		88.16	0.003050	3.48	212.65	55.66	0.57
POGGIB.-CERTALDO	344	100-9-SA	658.38	79.80	87.10		87.72	0.003477	3.50	188.15	53.93	0.60
POGGIB.-CERTALDO	344	30-9-SA	502.05	79.80	86.04		86.78	0.004113	3.81	131.70	48.02	0.65
POGGIB.-CERTALDO	343.98		Lat Struct									
POGGIB.-CERTALDO	343	200-9-SA	813.89	77.80	86.88		87.41	0.002214	3.24	251.14	56.32	0.49
POGGIB.-CERTALDO	343	100-9-SA	696.98	77.80	86.52		86.98	0.002075	3.01	231.46	55.50	0.47
POGGIB.-CERTALDO	343	30-9-SA	502.02	77.80	85.68		86.05	0.001837	2.69	186.88	48.81	0.44
POGGIB.-CERTALDO	342	200-9-SA	755.96	77.80	86.41		86.86	0.001792	2.97	254.18	56.10	0.45
POGGIB.-CERTALDO	342	100-9-SA	662.39	77.80	86.01		86.43	0.001796	2.85	232.16	54.97	0.44
POGGIB.-CERTALDO	342	30-9-SA	501.88	77.80	85.02		85.42	0.002185	2.80	179.44	51.12	0.48
POGGIB.-CERTALDO	341.99		Lat Struct									
POGGIB.-CERTALDO	341.6	200-9-SA	864.08	77.00	85.86		86.28	0.002103	2.86	302.12	77.53	0.46
POGGIB.-CERTALDO	341.6	100-9-SA	720.02	77.00	85.61		85.94	0.001795	2.55	282.65	77.53	0.43
POGGIB.-CERTALDO	341.6	30-9-SA	501.85	77.00	84.82		85.06	0.000862	2.16	232.71	47.30	0.31
POGGIB.-CERTALDO	341.5	200-9-SA	864.09	77.00	85.83		86.26	0.001778	2.90	297.93	66.58	0.44
POGGIB.-CERTALDO	341.5	100-9-SA	720.00	77.00	85.59		85.92	0.001465	2.55	282.19	66.47	0.40
POGGIB.-CERTALDO	341.5	30-9-SA	501.86	77.00	84.82		85.05	0.000820	2.12	237.27	46.71	0.30
POGGIB.-CERTALDO	341.4	200-9-SA	864.04	77.00	85.79		86.22	0.002427	2.94	294.32	80.64	0.49
POGGIB.-CERTALDO	341.4	100-9-SA	719.85	77.00	85.55		85.90	0.002069	2.62	275.18	80.18	0.45
POGGIB.-CERTALDO	341.4	30-9-SA	501.82	77.00	84.78		85.03	0.000947	2.24	224.42	55.11	0.32
POGGIB.-CERTALDO	341.39		Lat Struct									
POGGIB.-CERTALDO	341.38		Lat Struct									
POGGIB.-CERTALDO	341	200-9-SA	708.76	77.30	85.58		85.79	0.000738	2.01	352.70	71.69	0.29
POGGIB.-CERTALDO	341	100-9-SA	620.59	77.30	85.31		85.49	0.000676	1.86	333.47	71.69	0.28
POGGIB.-CERTALDO	341	30-9-SA	499.59	77.30	84.58		84.74	0.000757	1.78	280.90	71.69	0.29
POGGIB.-CERTALDO	340	200-9-SA	688.15	77.70	85.57		85.70	0.000496	1.62	424.70	90.20	0.24
POGGIB.-CERTALDO	340	100-9-SA	616.28	77.70	85.28		85.40	0.000486	1.54	399.02	90.20	0.23
POGGIB.-CERTALDO	340	30-9-SA	499.88	77.70	84.53		84.65	0.000581	1.51	331.42	90.20	0.25
POGGIB.-CERTALDO	339.98		Lat Struct									
POGGIB.-CERTALDO	339	200-9-SA	664.25	76.80	85.46		85.68	0.000866	2.09	323.23	123.09	0.31
POGGIB.-CERTALDO	339	100-9-SA	602.13	76.80	85.17		85.38	0.000873	2.03	302.04	122.23	0.31
POGGIB.-CERTALDO	339	30-9-SA	499.90	76.80	84.40		84.61	0.001082	2.06	246.80	118.85	0.34
POGGIB.-CERTALDO	338	200-9-SA	716.47	75.80	83.97		84.70	0.003447	3.80	188.42	45.84	0.60
POGGIB.-CERTALDO	338	100-9-SA	652.02	75.80	83.68		84.38	0.003523	3.72	175.22	44.98	0.60
POGGIB.-CERTALDO	338	30-9-SA	499.50	75.80	83.13		83.68	0.003194	3.31	150.93	43.35	0.57
POGGIB.-CERTALDO	337.99		Lat Struct									
POGGIB.-CERTALDO	337.87		Lat Struct									
POGGIB.-CERTALDO	337	200-9-SA	701.73	75.60	83.83		84.15	0.001395	2.49	281.43	68.32	0.39
POGGIB.-CERTALDO	337	100-9-SA	650.38	75.60	83.45		83.78	0.001592	2.54	255.66	66.83	0.42
POGGIB.-CERTALDO	337	30-9-SA	493.77	75.60	82.88		83.14	0.001478	2.26	218.34	64.93	0.39
POGGIB.-CERTALDO	336.98		Lat Struct									
POGGIB.-CERTALDO	336	200-9-SA	696.95	75.60	83.57		83.89	0.001279	2.53	275.37	60.74	0.38
POGGIB.-CERTALDO	336	100-9-SA	622.40	75.60	83.22		83.53	0.001299	2.45	254.54	60.21	0.38
POGGIB.-CERTALDO	336	30-9-SA	478.23	75.60	82.66		82.90	0.001186	2.16	221.11	59.34	0.36
POGGIB.-CERTALDO	335	200-9-SA	729.51	74.60	83.39		83.69	0.000989	2.40	303.97	56.46	0.33
POGGIB.-CERTALDO	335	100-9-SA	633.45	74.60	83.10		83.35	0.000835	2.20	287.99	53.55	0.30
POGGIB.-CERTALDO	335	30-9-SA	476.55	74.60	82.60		82.76	0.000569	1.82	262.14	48.40	0.25
POGGIB.-CERTALDO	334.99		Lat Struct									
POGGIB.-CERTALDO	334	200-9-SA	734.31	74.40	82.78		83.19	0.002690	2.86	256.61	81.76	0.52
POGGIB.-CERTALDO	334	100-9-SA	649.72	74.40	82.35		82.79	0.003303	2.92	222.18	80.28	0.56
POGGIB.-CERTALDO	334	30-9-SA	487.40	74.40	81.49		82.00	0.005202	3.16	154.39	70.01	0.68
POGGIB.-CERTALDO	333.58		Lat Struct									
POGGIB.-CERTALDO	333.5	200-9-SA	827.49	74.60	82.23		82.63	0.002108	2.81	294.99	83.33	0.48
POGGIB.-CERTALDO	333.5	100-9-SA	695.30	74.60	81.86		82.21	0.002074	2.63	264.58	81.56	0.47
POGGIB.-CERTALDO	333.5	30-9-SA	492.68	74.60	81.10		81.36	0.001052	2.23	221.29	66.34	0.34
POGGIB.-CERTALDO	333	200-9-SA	828.17	74.49	82.04		82.44	0.001688	2.95	295.55	149.37	0.44
POGGIB.-CERTALDO	333	100-9-SA	695.46	74.49	81.70		82.04	0.001417	2.75	273.18	144.94	0.40

HEC-RAS River: FUME ELSA Reach: POGGIB.-CERTALDO Profile: Max WS (Continued)

Reach	River Sta	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
POGGIB.-CERTALDO	333	30-9-SA	492.68	74.49	81.00		81.25	0.001131	2.40	229.38	139.53	0.36
POGGIB.-CERTALDO	332.5	200-9-SA	830.93	74.49	81.85		82.31	0.002377	3.03	277.39	146.25	0.45
POGGIB.-CERTALDO	332.5	100-9-SA	696.97	74.49	81.56		81.93	0.001975	2.79	258.70	142.64	0.41
POGGIB.-CERTALDO	332.5	30-9-SA	492.68	74.49	80.90		81.17	0.001537	2.43	218.76	137.55	0.36
POGGIB.-CERTALDO	332.49		Lat Struct									
POGGIB.-CERTALDO	332.25	200-9-SA	830.93	74.29	81.66		82.10	0.001891	3.13	283.18	147.51	0.46
POGGIB.-CERTALDO	332.25	100-9-SA	696.97	74.29	81.40		81.76	0.001518	2.84	266.72	144.17	0.42
POGGIB.-CERTALDO	332.25	30-9-SA	492.67	74.29	80.78		81.04	0.001147	2.42	228.14	139.37	0.36
POGGIB.-CERTALDO	332	200-9-SA	828.46	74.20	81.85		82.03	0.000797	1.89	437.86	109.72	0.30
POGGIB.-CERTALDO	332	100-9-SA	696.59	74.20	81.55		81.70	0.000719	1.72	405.22	108.88	0.28
POGGIB.-CERTALDO	332	30-9-SA	492.67	74.20	80.88		80.99	0.000511	1.45	339.75	91.23	0.24
POGGIB.-CERTALDO	331	200-9-SA	814.53	73.50	81.73		81.95	0.000836	2.09	390.14	82.04	0.31
POGGIB.-CERTALDO	331	100-9-SA	690.11	73.50	81.45		81.63	0.000727	1.88	367.41	82.04	0.28
POGGIB.-CERTALDO	331	30-9-SA	492.60	73.50	80.81		80.94	0.000608	1.56	314.82	82.04	0.25
POGGIB.-CERTALDO	330.9	200-9-SA	814.53	73.50	81.73	78.38	81.95	0.000838	2.09	389.87	82.04	0.31
POGGIB.-CERTALDO	330.9	100-9-SA	690.11	73.50	81.45	77.96	81.63	0.000728	1.88	367.19	82.04	0.28
POGGIB.-CERTALDO	330.9	30-9-SA	492.60	73.50	80.81	77.22	80.93	0.000609	1.57	314.67	82.04	0.26
POGGIB.-CERTALDO	330.5		Bridge									
POGGIB.-CERTALDO	330.1	200-9-SA	814.53	73.50	81.67		81.90	0.000869	2.11	385.39	82.04	0.31
POGGIB.-CERTALDO	330.1	100-9-SA	690.11	73.50	81.41		81.59	0.000752	1.90	363.51	82.04	0.29
POGGIB.-CERTALDO	330.1	30-9-SA	492.60	73.50	80.77		80.90	0.000627	1.58	311.80	82.04	0.26
POGGIB.-CERTALDO	330.09		Lat Struct									
POGGIB.-CERTALDO	330	200-9-SA	801.10	73.65	81.08		81.87	0.003106	3.95	202.80	40.57	0.56
POGGIB.-CERTALDO	330	100-9-SA	682.97	73.65	80.95		81.56	0.002440	3.45	197.69	40.57	0.50
POGGIB.-CERTALDO	330	30-9-SA	492.60	73.65	80.49		80.87	0.001723	2.75	178.95	40.57	0.42
POGGIB.-CERTALDO	329.98		Lat Struct									
POGGIB.-CERTALDO	329	200-9-SA	795.11	72.60	81.35		81.78	0.001877	2.91	272.88	63.79	0.45
POGGIB.-CERTALDO	329	100-9-SA	670.36	72.60	81.16		81.50	0.001538	2.57	260.91	63.79	0.41
POGGIB.-CERTALDO	329	30-9-SA	485.10	72.60	80.59		80.83	0.001279	2.16	224.52	62.87	0.36
POGGIB.-CERTALDO	328	200-9-SA	764.23	72.60	81.10		81.53	0.001909	2.91	262.82	63.17	0.46
POGGIB.-CERTALDO	328	100-9-SA	670.88	72.60	80.89		81.26	0.001605	2.88	249.95	59.53	0.42
POGGIB.-CERTALDO	328	30-9-SA	492.58	72.60	80.37		80.63	0.001308	2.25	218.98	58.91	0.37
POGGIB.-CERTALDO	327.99		Lat Struct									
POGGIB.-CERTALDO	327	200-9-SA	757.93	72.60	80.94		81.46	0.002342	3.19	237.93	58.63	0.50
POGGIB.-CERTALDO	327	100-9-SA	669.65	72.60	80.74		81.19	0.002140	2.96	226.38	58.63	0.48
POGGIB.-CERTALDO	327	30-9-SA	493.05	72.60	80.26		80.57	0.001720	2.49	198.08	56.73	0.43
POGGIB.-CERTALDO	326.98		Lat Struct									
POGGIB.-CERTALDO	326	200-9-SA	744.25	72.50	80.41		80.89	0.002683	3.07	242.58	71.11	0.53
POGGIB.-CERTALDO	326	100-9-SA	664.87	72.50	80.23		80.66	0.002509	2.89	230.22	70.42	0.51
POGGIB.-CERTALDO	326	30-9-SA	493.07	72.50	79.84		80.14	0.002033	2.43	202.62	68.71	0.45
POGGIB.-CERTALDO	325.99		Lat Struct									
POGGIB.-CERTALDO	325.58		Lat Struct									
POGGIB.-CERTALDO	325	200-9-SA	679.82	72.20	80.01		80.29	0.001232	2.34	290.00	69.93	0.37
POGGIB.-CERTALDO	325	100-9-SA	619.01	72.20	79.84		80.09	0.001168	2.23	278.04	69.93	0.36
POGGIB.-CERTALDO	325	30-9-SA	459.43	72.20	79.53		79.69	0.000834	1.79	256.36	69.89	0.30
POGGIB.-CERTALDO	324	200-9-SA	494.29	72.30	79.87		80.23	0.001835	2.66	185.75	49.81	0.44
POGGIB.-CERTALDO	324	100-9-SA	430.47	72.30	79.77		80.06	0.001492	2.38	180.92	49.17	0.40
POGGIB.-CERTALDO	324	30-9-SA	314.28	72.30	79.49		79.67	0.000969	1.88	167.45	46.93	0.32
POGGIB.-CERTALDO	323	200-9-SA	322.89	72.35	79.96		80.04	0.000342	1.24	260.96	62.25	0.19
POGGIB.-CERTALDO	323	100-9-SA	290.79	72.35	79.82		79.89	0.000308	1.15	252.44	62.25	0.18
POGGIB.-CERTALDO	323	30-9-SA	249.22	72.35	79.46		79.52	0.000304	1.08	229.93	62.25	0.18
POGGIB.-CERTALDO	322	200-9-SA	546.75	72.32	79.32		79.52	0.001526	1.98	275.79	104.72	0.39
POGGIB.-CERTALDO	322	100-9-SA	529.99	72.32	79.04		79.28	0.001886	2.14	247.97	98.76	0.43
POGGIB.-CERTALDO	322	30-9-SA	452.26	72.32	78.67		78.90	0.002023	2.13	212.73	89.93	0.44
POGGIB.-CERTALDO	321.98		Lat Struct									
POGGIB.-CERTALDO	321	200-9-SA	559.97	72.30	78.88		79.18	0.001613	2.41	232.03	66.94	0.41
POGGIB.-CERTALDO	321	100-9-SA	525.47	72.30	78.56		78.87	0.001935	2.50	210.25	66.15	0.45
POGGIB.-CERTALDO	321	30-9-SA	452.28	72.30	78.16		78.47	0.002175	2.46	184.17	65.19	0.47
POGGIB.-CERTALDO	320.99		Lat Struct									
POGGIB.-CERTALDO	320	200-9-SA	591.22	71.80	78.21		78.69	0.003187	3.07	192.78	64.62	0.57
POGGIB.-CERTALDO	320	100-9-SA	516.43	71.80	78.00		78.42	0.003059	2.88	179.26	64.14	0.55
POGGIB.-CERTALDO	320	30-9-SA	404.60	71.80	77.80		78.10	0.002386	2.43	166.21	63.68	0.48
POGGIB.-CERTALDO	319.99		Lat Struct									
POGGIB.-CERTALDO	319.98		Lat Struct									
POGGIB.-CERTALDO	319	200-9-SA	416.06	71.60	77.74		78.09	0.001489	2.64	157.80	34.45	0.39
POGGIB.-CERTALDO	319	100-9-SA	399.74	71.60	77.31		77.71	0.001855	2.80	142.96	34.45	0.44
POGGIB.-CERTALDO	319	30-9-SA	382.17	71.60	76.62		77.14	0.002969	3.21	119.07	34.45	0.55

## HEC-RAS River: FIUME ELSA Reach: POGGIB.-CERTALDO Profile: Max WS (Continued)

Reach	River Sta	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
POGGIB.-CERTALDO	318.58											
			Lat Struct									
POGGIB.-CERTALDO	318	200-9-SA	630.93	71.20	77.03		77.38	0.001422	2.82	240.71	53.78	0.40
POGGIB.-CERTALDO	318	100-9-SA	528.07	71.20	76.84		77.10	0.001046	2.29	230.70	50.13	0.34
POGGIB.-CERTALDO	318	30-9-SA	397.31	71.20	76.39		76.57	0.000809	1.91	208.25	49.53	0.30
POGGIB.-CERTALDO	317.6	200-9-SA	637.14	71.20	77.08		77.36	0.001043	2.33	273.16	56.99	0.34
POGGIB.-CERTALDO	317.6	100-9-SA	532.87	71.20	76.88		77.09	0.000835	2.04	261.63	56.99	0.30
POGGIB.-CERTALDO	317.6	30-9-SA	399.34	71.20	76.42		76.56	0.000655	1.70	235.31	56.99	0.27
POGGIB.-CERTALDO	317.56	200-9-SA	645.44	71.20	77.03		77.33	0.001271	2.41	267.73	56.99	0.36
POGGIB.-CERTALDO	317.56	100-9-SA	539.52	71.20	76.84		77.07	0.001011	2.10	256.93	56.99	0.32
POGGIB.-CERTALDO	317.56	30-9-SA	404.59	71.20	76.39		76.55	0.000765	1.75	231.51	55.99	0.27
POGGIB.-CERTALDO	317.54	200-9-SA	646.23	71.20	77.01		77.31	0.001294	2.43	266.43	56.99	0.36
POGGIB.-CERTALDO	317.54	100-9-SA	540.08	71.20	76.83		77.05	0.001025	2.11	255.95	56.99	0.32
POGGIB.-CERTALDO	317.54	30-9-SA	404.81	71.20	76.38		76.54	0.000772	1.75	230.83	55.99	0.28
POGGIB.-CERTALDO	317.5	200-9-SA	646.23	71.20	77.01		77.30	0.001161	2.42	267.55	58.28	0.36
POGGIB.-CERTALDO	317.5	100-9-SA	540.08	71.20	76.82		77.05	0.000922	2.10	256.82	58.28	0.32
POGGIB.-CERTALDO	317.5	30-9-SA	404.81	71.20	76.38		76.53	0.000721	1.75	230.81	57.77	0.28
POGGIB.-CERTALDO	317.49		Lat Struct									
POGGIB.-CERTALDO	317.48		Lat Struct									
POGGIB.-CERTALDO	317.4	200-9-SA	632.79	71.20	77.02		77.30	0.001060	2.33	271.92	58.85	0.35
POGGIB.-CERTALDO	317.4	100-9-SA	532.70	71.20	76.83		77.04	0.000861	2.05	260.38	58.85	0.31
POGGIB.-CERTALDO	317.4	30-9-SA	404.56	71.20	76.37		76.52	0.000696	1.73	233.44	58.33	0.28
POGGIB.-CERTALDO	317	200-9-SA	584.02	71.06	76.38		77.04	0.003820	3.60	162.17	48.92	0.63
POGGIB.-CERTALDO	317	100-9-SA	515.93	71.06	76.20		76.77	0.003573	3.37	152.97	48.65	0.61
POGGIB.-CERTALDO	317	30-9-SA	404.52	71.06	75.80		76.27	0.003265	3.02	134.15	47.37	0.57
POGGIB.-CERTALDO	316	200-9-SA	567.70	71.22	76.53	74.98	76.91	0.001955	2.71	209.72	59.08	0.46
POGGIB.-CERTALDO	316	100-9-SA	511.37	71.22	76.27	74.82	76.62	0.002024	2.63	194.24	59.05	0.46
POGGIB.-CERTALDO	316	30-9-SA	404.52	71.22	75.83	74.50	76.12	0.001963	2.40	168.20	57.58	0.45
POGGIB.-CERTALDO	315.5		Ini Struct									
POGGIB.-CERTALDO	315	200-9-SA	567.14	67.50	76.04		76.08	0.000096	0.88	645.38	97.21	0.11
POGGIB.-CERTALDO	315	100-9-SA	511.07	67.50	75.64		75.67	0.000095	0.84	606.39	97.21	0.11
POGGIB.-CERTALDO	315	30-9-SA	404.34	67.50	74.91		74.94	0.000087	0.75	535.75	96.51	0.10
POGGIB.-CERTALDO	314.99		Lat Struct									
POGGIB.-CERTALDO	314.98		Lat Struct									
POGGIB.-CERTALDO	314.59		Lat Struct									
POGGIB.-CERTALDO	314	200-9-SA	554.24	67.40	75.96		76.07	0.000423	1.48	375.20	81.97	0.22
POGGIB.-CERTALDO	314	100-9-SA	497.00	67.40	75.56		75.67	0.000453	1.45	342.52	81.31	0.23
POGGIB.-CERTALDO	314	30-9-SA	401.45	67.40	74.84		74.93	0.000374	1.38	290.11	73.26	0.21
POGGIB.-CERTALDO	313	200-9-SA	554.10	67.30	75.88		76.06	0.000800	1.88	294.15	69.98	0.29
POGGIB.-CERTALDO	313	100-9-SA	496.95	67.30	75.47		75.65	0.000884	1.87	266.06	69.61	0.30
POGGIB.-CERTALDO	313	30-9-SA	401.41	67.30	74.74		74.92	0.001121	1.86	215.37	68.18	0.33
POGGIB.-CERTALDO	312.9	200-9-SA	554.10	67.30	75.87	71.92	76.06	0.000801	1.88	294.02	69.98	0.29
POGGIB.-CERTALDO	312.9	100-9-SA	496.97	67.30	75.47	71.69	75.65	0.000885	1.87	265.93	69.61	0.31
POGGIB.-CERTALDO	312.9	30-9-SA	401.42	67.30	74.74	71.25	74.91	0.001125	1.87	215.19	68.17	0.34
POGGIB.-CERTALDO	312.5		Bridge									
POGGIB.-CERTALDO	312.1	200-9-SA	554.05	67.30	75.84		76.04	0.000644	2.04	291.94	58.21	0.26
POGGIB.-CERTALDO	312.1	100-9-SA	496.94	67.30	75.44		75.63	0.000659	1.99	268.80	58.21	0.26
POGGIB.-CERTALDO	312.1	30-9-SA	401.41	67.30	74.72		74.89	0.000695	1.89	226.46	57.76	0.27
POGGIB.-CERTALDO	312	200-9-SA	554.09	67.30	75.85		76.04	0.000697	1.89	292.68	58.21	0.27
POGGIB.-CERTALDO	312	100-9-SA	496.94	67.30	75.46		75.63	0.000726	1.84	269.47	58.21	0.27
POGGIB.-CERTALDO	312	30-9-SA	401.41	67.30	74.73		74.89	0.000810	1.77	227.09	57.77	0.28
POGGIB.-CERTALDO	311.99		Lat Struct									
POGGIB.-CERTALDO	311.98		Lat Struct									
POGGIB.-CERTALDO	311	200-9-SA	541.93	67.30	75.64		76.02	0.001498	2.73	198.63	42.98	0.41
POGGIB.-CERTALDO	311	100-9-SA	496.01	67.30	75.21		75.60	0.001579	2.74	180.72	40.49	0.41
POGGIB.-CERTALDO	311	30-9-SA	401.35	67.30	74.50		74.85	0.001637	2.63	152.79	37.64	0.42
POGGIB.-CERTALDO	310.98		Lat Struct									
POGGIB.-CERTALDO	310.19		Lat Struct									
POGGIB.-CERTALDO	310	200-9-SA	610.20	66.10	75.23		75.48	0.000890	2.21	275.69	54.04	0.31
POGGIB.-CERTALDO	310	100-9-SA	545.62	66.10	74.82		75.06	0.000924	2.15	253.50	54.04	0.32
POGGIB.-CERTALDO	310	30-9-SA	404.94	66.10	74.22		74.39	0.000784	1.83	220.92	54.04	0.29
POGGIB.-CERTALDO	309.99		Lat Struct									
POGGIB.-CERTALDO	309.28		Lat Struct									
POGGIB.-CERTALDO	309	200-9-SA	704.18	65.20	74.45		74.87	0.001830	2.84	247.81	59.51	0.44
POGGIB.-CERTALDO	309	100-9-SA	616.43	65.20	74.11		74.48	0.001753	2.71	227.62	57.04	0.43
POGGIB.-CERTALDO	309	30-9-SA	467.88	65.20	73.66		73.93	0.001367	2.31	202.79	53.84	0.38
POGGIB.-CERTALDO	308.96		Lat Struct									

HEC-RAS River: FUME ELSA Reach: POGGIB.-CERTALDO Profile: Max WS (Continued)

Reach	River Sta	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
POGGIB.-CERTALDO	308	200-9-SA	573.68	65.00	74.33		74.54	0.000965	2.03	283.24	70.50	0.32
POGGIB.-CERTALDO	308	100-9-SA	513.80	65.00	73.92		74.13	0.001061	2.02	254.90	68.92	0.33
POGGIB.-CERTALDO	308	30-9-SA	444.25	65.00	73.30		73.52	0.001365	2.09	212.84	66.50	0.37
POGGIB.-CERTALDO	307	200-9-SA	437.30	64.00	74.31		74.40	0.000358	1.32	330.39	72.01	0.20
POGGIB.-CERTALDO	307	100-9-SA	439.02	64.00	73.84		73.95	0.000512	1.48	295.93	72.01	0.23
POGGIB.-CERTALDO	307	30-9-SA	438.86	64.00	73.08		73.25	0.000977	1.81	241.87	72.01	0.32
POGGIB.-CERTALDO	306.98		Lat Struct									
POGGIB.-CERTALDO	306.58		Lat Struct									
POGGIB.-CERTALDO	306	200-9-SA	406.33	63.80	74.26		74.38	0.000425	1.51	269.84	52.14	0.21
POGGIB.-CERTALDO	306	100-9-SA	427.97	63.80	73.75		73.91	0.000652	1.76	243.11	52.14	0.26
POGGIB.-CERTALDO	306	30-9-SA	438.82	63.80	72.96		73.20	0.001229	2.17	201.89	52.14	0.35
POGGIB.-CERTALDO	305.98		Lat Struct									
POGGIB.-CERTALDO	305	200-9-SA	432.85	64.00	73.98		74.20	0.000778	2.06	210.57	38.44	0.28
POGGIB.-CERTALDO	305	100-9-SA	452.20	64.00	73.39		73.68	0.001200	2.41	187.83	38.44	0.35
POGGIB.-CERTALDO	305	30-9-SA	438.55	64.00	72.54		72.94	0.001678	2.78	157.67	33.66	0.41
POGGIB.-CERTALDO	304.98		Lat Struct									
POGGIB.-CERTALDO	304.97		Lat Struct									
POGGIB.-CERTALDO	304.9	200-9-SA	493.31	63.74	73.67		73.96	0.001038	2.36	208.66	38.44	0.32
POGGIB.-CERTALDO	304.9	100-9-SA	470.55	63.74	73.15		73.47	0.001283	2.49	188.63	38.44	0.36
POGGIB.-CERTALDO	304.9	30-9-SA	436.90	63.74	72.30		72.69	0.001644	2.76	158.39	33.70	0.41
POGGIB.-CERTALDO	304	200-9-SA	633.31	63.40	73.51		73.69	0.000714	1.88	336.06	102.97	0.28
POGGIB.-CERTALDO	304	100-9-SA	549.81	63.40	73.07		73.24	0.000725	1.81	303.85	92.68	0.28
POGGIB.-CERTALDO	304	30-9-SA	444.60	63.40	72.33		72.49	0.000834	1.77	251.40	75.36	0.30
POGGIB.-CERTALDO	303.7	200-9-SA	776.88	63.80	72.90	70.32	73.42	0.001723	3.18	244.25	46.14	0.44
POGGIB.-CERTALDO	303.7	100-9-SA	657.81	63.80	72.60	69.87	73.01	0.001484	2.86	230.11	46.14	0.41
POGGIB.-CERTALDO	303.7	30-9-SA	469.69	63.80	72.09	69.05	72.36	0.001049	2.27	206.90	46.14	0.34
POGGIB.-CERTALDO	303.65		Bridge									
POGGIB.-CERTALDO	303.6	200-9-SA	776.21	63.80	72.88		73.40	0.001745	3.19	243.14	46.14	0.44
POGGIB.-CERTALDO	303.6	100-9-SA	657.79	63.80	72.58		73.00	0.001502	2.87	229.18	46.14	0.41
POGGIB.-CERTALDO	303.6	30-9-SA	469.68	63.80	72.08		72.35	0.001059	2.28	206.29	46.14	0.34
POGGIB.-CERTALDO	303.59		Lat Struct									
POGGIB.-CERTALDO	303.58		Lat Struct									
POGGIB.-CERTALDO	303	200-9-SA	712.90	63.80	72.66		73.16	0.001794	3.13	227.60	46.14	0.45
POGGIB.-CERTALDO	303	100-9-SA	620.88	63.80	72.32		72.76	0.001667	2.93	212.17	45.42	0.43
POGGIB.-CERTALDO	303	30-9-SA	467.58	63.80	71.83		72.14	0.001287	2.46	190.28	43.96	0.38
POGGIB.-CERTALDO	302.58		Lat Struct									
POGGIB.-CERTALDO	302	200-9-SA	650.82	63.00	72.60		72.83	0.001018	2.13	305.46	72.24	0.33
POGGIB.-CERTALDO	302	100-9-SA	559.70	63.00	72.26		72.46	0.000986	1.99	280.77	72.24	0.32
POGGIB.-CERTALDO	302	30-9-SA	439.15	63.00	71.70		71.87	0.000998	1.83	240.46	72.24	0.32
POGGIB.-CERTALDO	301.99		Lat Struct									
POGGIB.-CERTALDO	301	200-9-SA	496.86	63.00	72.30		72.59	0.000967	2.41	206.29	35.78	0.32
POGGIB.-CERTALDO	301	100-9-SA	456.13	63.00	71.91		72.19	0.001004	2.37	192.34	35.78	0.33
POGGIB.-CERTALDO	301	30-9-SA	434.41	63.00	71.09		71.45	0.001500	2.67	162.94	35.78	0.40
POGGIB.-CERTALDO	300.98		Lat Struct									
POGGIB.-CERTALDO	300.29		Lat Struct									
POGGIB.-CERTALDO	300	200-9-SA	524.65	62.70	71.87		72.23	0.001364	2.64	198.88	40.80	0.38
POGGIB.-CERTALDO	300	100-9-SA	502.27	62.70	71.33		71.74	0.001758	2.84	177.09	39.94	0.43
POGGIB.-CERTALDO	300	30-9-SA	449.67	62.70	70.34		70.87	0.002537	3.22	139.62	34.29	0.51
POGGIB.-CERTALDO	299.5	200-9-SA	634.31	61.57	71.85		71.95	0.000292	1.41	448.96	77.86	0.19
POGGIB.-CERTALDO	299.5	100-9-SA	560.81	61.57	71.35		71.44	0.000305	1.37	409.52	77.86	0.19
POGGIB.-CERTALDO	299.5	30-9-SA	445.95	61.57	70.41		70.49	0.000336	1.32	338.02	73.79	0.20
POGGIB.-CERTALDO	299	200-9-SA	768.22	61.30	71.11		71.63	0.002545	3.20	239.81	59.47	0.51
POGGIB.-CERTALDO	299	100-9-SA	650.70	61.30	70.66		71.14	0.002601	3.04	213.70	58.53	0.51
POGGIB.-CERTALDO	299	30-9-SA	458.33	61.30	69.92		70.27	0.002086	2.64	173.36	49.51	0.45
POGGIB.-CERTALDO	298.98		Lat Struct									
POGGIB.-CERTALDO	298.7	200-9-SA	740.72	61.20	70.84		71.30	0.001838	3.04	249.76	144.38	0.44
POGGIB.-CERTALDO	298.7	100-9-SA	637.51	61.20	70.34		70.78	0.001969	2.94	220.80	138.24	0.45
POGGIB.-CERTALDO	298.7	30-9-SA	457.46	61.20	69.62		69.95	0.001794	2.55	179.58	48.96	0.42
POGGIB.-CERTALDO	298.62	200-9-SA	759.67	61.50	70.86		71.17	0.000771	2.52	323.83	121.72	0.31
POGGIB.-CERTALDO	298.62	100-9-SA	639.19	61.50	70.39		70.66	0.000715	2.31	294.90	120.68	0.30
POGGIB.-CERTALDO	298.62	30-9-SA	453.30	61.50	69.67		69.85	0.000571	1.90	249.75	116.91	0.26
POGGIB.-CERTALDO	298.61	200-9-SA	760.77	61.50	70.91		71.12	0.000513	2.08	383.97	99.56	0.25
POGGIB.-CERTALDO	298.61	100-9-SA	636.23	61.50	70.45		70.63	0.000457	1.87	353.70	99.56	0.23
POGGIB.-CERTALDO	298.61	30-9-SA	451.78	61.50	69.72		69.83	0.000352	1.52	305.25	99.56	0.20
POGGIB.-CERTALDO	298.6	200-9-SA	760.78	61.50	70.90		71.12	0.000752	2.08	369.80	70.09	0.28
POGGIB.-CERTALDO	298.6	100-9-SA	636.23	61.50	70.44		70.62	0.000683	1.90	337.35	69.15	0.27
POGGIB.-CERTALDO	298.6	30-9-SA	451.74	61.50	69.70		69.82	0.000546	1.58	286.72	67.68	0.24

HEC-RAS River: FUME ELSA Reach: POGGIB.-CERTALDO Profile: Max WS (Continued)

Reach	River Sta	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
POGGIB.-CERTALDO	298.4	200-9-SA	760.72	61.50	70.89		71.11	0.000756	2.09	369.12	70.07	0.28
POGGIB.-CERTALDO	298.4	100-9-SA	636.18	61.50	70.43		70.61	0.000686	1.91	336.74	69.14	0.27
POGGIB.-CERTALDO	298.4	30-9-SA	451.74	61.50	69.69		69.82	0.000548	1.58	286.27	67.66	0.24
POGGIB.-CERTALDO	298.38		Lat Struct									
POGGIB.-CERTALDO	298.36	200-9-SA	758.29	61.50	70.90		71.11	0.000638	2.05	371.23	65.37	0.27
POGGIB.-CERTALDO	298.36	100-9-SA	634.58	61.50	70.43		70.61	0.000580	1.87	341.06	64.61	0.26
POGGIB.-CERTALDO	298.36	30-9-SA	451.47	61.50	69.69		69.82	0.000464	1.54	293.83	63.40	0.22
POGGIB.-CERTALDO	298.09	200-9-SA	698.26	60.57	70.71		70.99	0.001154	2.38	295.95	64.89	0.35
POGGIB.-CERTALDO	298.09	100-9-SA	583.41	60.57	70.25		70.50	0.001117	2.21	266.41	64.05	0.34
POGGIB.-CERTALDO	298.09	30-9-SA	433.70	60.57	69.48		69.69	0.001154	2.00	217.89	62.65	0.34
POGGIB.-CERTALDO	298.08		Lat Struct									
POGGIB.-CERTALDO	298	200-9-SA	823.65	62.50	70.40		70.69	0.001325	2.37	347.31	90.21	0.39
POGGIB.-CERTALDO	298	100-9-SA	669.80	62.50	70.00		70.23	0.001179	2.15	311.74	86.05	0.36
POGGIB.-CERTALDO	298	30-9-SA	459.80	62.50	69.32		69.49	0.000960	1.80	255.69	79.04	0.32
POGGIB.-CERTALDO	297.99		Lat Struct									
POGGIB.-CERTALDO	297.98		Lat Struct									
POGGIB.-CERTALDO	296.18		Lat Struct									
POGGIB.-CERTALDO	296	200-9-SA	804.27	61.70	69.65		70.22	0.002630	3.32	242.03	60.74	0.53
POGGIB.-CERTALDO	296	100-9-SA	662.35	61.70	69.37		69.81	0.002234	2.94	225.13	60.31	0.49
POGGIB.-CERTALDO	296	30-9-SA	460.35	61.70	68.87		69.15	0.001699	2.36	194.70	59.53	0.42
POGGIB.-CERTALDO	295	200-9-SA	597.42	61.20	69.61		69.93	0.001258	2.50	239.36	52.39	0.37
POGGIB.-CERTALDO	295	100-9-SA	517.02	61.20	69.23		69.51	0.001226	2.36	219.27	51.65	0.37
POGGIB.-CERTALDO	295	30-9-SA	425.07	61.20	68.47		68.75	0.001492	2.35	180.62	50.20	0.40
POGGIB.-CERTALDO	294.19		Lat Struct									
POGGIB.-CERTALDO	294	200-9-SA	732.12	62.20	68.57		69.13	0.002759	3.32	220.24	58.62	0.55
POGGIB.-CERTALDO	294	100-9-SA	629.06	62.20	68.29		68.78	0.002574	3.08	204.01	58.00	0.52
POGGIB.-CERTALDO	294	30-9-SA	447.82	62.20	67.89		68.20	0.001890	2.48	180.64	56.69	0.44
POGGIB.-CERTALDO	293.98		Lat Struct									
POGGIB.-CERTALDO	293.59		Lat Struct									
POGGIB.-CERTALDO	293	200-9-SA	585.43	61.90	68.56		68.74	0.000797	1.85	316.93	80.89	0.30
POGGIB.-CERTALDO	293	100-9-SA	492.02	61.90	68.27		68.41	0.000721	1.68	292.99	80.37	0.28
POGGIB.-CERTALDO	293	30-9-SA	372.87	61.90	67.78		67.89	0.000653	1.47	253.78	79.53	0.26
POGGIB.-CERTALDO	292	200-9-SA	437.19	61.90	68.38		68.64	0.001320	2.28	191.93	50.42	0.37
POGGIB.-CERTALDO	292	100-9-SA	366.94	61.90	68.10		68.32	0.001165	2.06	178.08	49.77	0.35
POGGIB.-CERTALDO	292	30-9-SA	282.81	61.90	67.61		67.78	0.001076	1.84	153.97	48.62	0.33
POGGIB.-CERTALDO	291	200-9-SA	412.72	62.00	68.36		68.48	0.000556	1.53	269.33	66.58	0.24
POGGIB.-CERTALDO	291	100-9-SA	334.15	62.00	68.10		68.19	0.000451	1.33	251.77	66.40	0.22
POGGIB.-CERTALDO	291	30-9-SA	240.49	62.00	67.62		67.68	0.000356	1.09	220.03	65.58	0.19
POGGIB.-CERTALDO	290.98		Lat Struct									
POGGIB.-CERTALDO	290.49		Lat Struct									
POGGIB.-CERTALDO	290	200-9-SA	527.30	61.90	67.68		68.03	0.001991	2.63	200.56	59.02	0.46
POGGIB.-CERTALDO	290	100-9-SA	480.38	61.90	67.37		67.73	0.002213	2.63	182.58	58.41	0.48
POGGIB.-CERTALDO	290	30-9-SA	380.41	61.90	66.94		67.23	0.002212	2.42	157.20	57.44	0.47
POGGIB.-CERTALDO	289	200-9-SA	493.02	61.80	67.46		67.78	0.001836	2.51	196.62	58.39	0.44
POGGIB.-CERTALDO	289	100-9-SA	456.71	61.80	67.08		67.43	0.002291	2.61	174.89	58.39	0.48
POGGIB.-CERTALDO	289	30-9-SA	380.38	61.80	66.48		66.85	0.003012	2.70	140.71	55.12	0.54
POGGIB.-CERTALDO	288.48		Lat Struct									
POGGIB.-CERTALDO	288	200-9-SA	596.65	62.00	67.39		67.62	0.001625	2.13	280.60	98.70	0.40
POGGIB.-CERTALDO	288	100-9-SA	513.91	62.00	67.08		67.30	0.001748	2.05	250.36	98.70	0.41
POGGIB.-CERTALDO	288	30-9-SA	412.95	62.00	66.46		66.70	0.002729	2.18	189.52	95.85	0.49
POGGIB.-CERTALDO	287.6	200-9-SA	596.61	62.00	67.37	66.03	67.61	0.001649	2.14	279.30	98.70	0.41
POGGIB.-CERTALDO	287.6	100-9-SA	513.91	62.00	67.07	65.71	67.28	0.001780	2.06	249.01	98.70	0.41
POGGIB.-CERTALDO	287.6	30-9-SA	412.90	62.00	66.43	65.32	66.68	0.002834	2.21	187.24	95.67	0.50
POGGIB.-CERTALDO	287.5		Ini Struct									
POGGIB.-CERTALDO	287.4	200-9-SA	596.51	58.70	67.22		67.25	0.000129	0.76	787.92	195.32	0.12
POGGIB.-CERTALDO	287.4	100-9-SA	513.88	58.70	66.91		66.94	0.000124	0.71	727.91	195.32	0.12
POGGIB.-CERTALDO	287.4	30-9-SA	411.95	58.70	66.21		66.24	0.000158	0.70	591.34	195.32	0.13
POGGIB.-CERTALDO	287	200-9-SA	596.52	58.70	67.21		67.24	0.000129	0.76	787.09	195.32	0.12
POGGIB.-CERTALDO	287	100-9-SA	513.88	58.70	66.91		66.93	0.000124	0.71	727.20	195.32	0.12
POGGIB.-CERTALDO	287	30-9-SA	411.93	58.70	66.21		66.23	0.000158	0.70	590.57	195.32	0.13
POGGIB.-CERTALDO	286.99		Lat Struct									
POGGIB.-CERTALDO	286	200-9-SA	638.34	59.00	67.19		67.23	0.000177	0.89	719.31	178.02	0.14
POGGIB.-CERTALDO	286	100-9-SA	540.28	59.00	66.89		66.92	0.000163	0.81	665.75	178.02	0.13
POGGIB.-CERTALDO	286	30-9-SA	416.68	59.00	66.19		66.22	0.000191	0.77	542.20	178.02	0.14
POGGIB.-CERTALDO	285.99		Lat Struct									
POGGIB.-CERTALDO	285.98		Lat Struct									



HEC-RAS River: FUME ELSA Reach: POGGIB.-CERTALDO Profile: Max WS (Continued)

Reach	River Sta	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
POGGIB.-CERTALDO	285	200-9-SA	737.34	59.00	66.80		67.11	0.002954	2.45	300.73	133.93	0.52
POGGIB.-CERTALDO	285	100-9-SA	614.94	59.00	66.52		66.80	0.003170	2.33	263.44	133.50	0.53
POGGIB.-CERTALDO	285	30-9-SA	406.42	59.00	65.91		66.17	0.004604	2.23	182.60	132.03	0.60
POGGIB.-CERTALDO	284	200-9-SA	753.65	58.90	66.80		67.06	0.001889	2.25	335.67	122.42	0.43
POGGIB.-CERTALDO	284	100-9-SA	626.48	58.90	66.53		66.75	0.001819	2.07	303.15	122.01	0.42
POGGIB.-CERTALDO	284	30-9-SA	447.65	58.90	65.98		66.16	0.002100	1.90	236.01	120.87	0.43
POGGIB.-CERTALDO	283	200-9-SA	799.47	58.60	66.61		66.82	0.001719	2.04	392.54	153.98	0.41
POGGIB.-CERTALDO	283	100-9-SA	649.46	58.60	66.37		66.54	0.001501	1.82	356.67	149.35	0.38
POGGIB.-CERTALDO	283	30-9-SA	410.49	58.60	65.87		65.97	0.001121	1.44	284.19	134.90	0.32
POGGIB.-CERTALDO	282	200-9-SA	799.46	58.50	66.56		66.77	0.001361	1.99	401.08	136.26	0.37
POGGIB.-CERTALDO	282	100-9-SA	648.84	58.50	66.34		66.49	0.001158	1.75	370.40	135.39	0.34
POGGIB.-CERTALDO	282	30-9-SA	410.18	58.50	65.85		65.94	0.000864	1.34	305.20	133.49	0.28
POGGIB.-CERTALDO	281.9	200-9-SA	799.12	58.50	66.39	64.83	66.75	0.001837	2.67	298.94	135.58	0.44
POGGIB.-CERTALDO	281.9	100-9-SA	644.46	58.50	66.22	63.69	66.48	0.001395	2.26	285.36	134.93	0.38
POGGIB.-CERTALDO	281.9	30-9-SA	409.46	58.50	65.80	62.69	65.94	0.000856	1.63	251.67	133.28	0.29
POGGIB.-CERTALDO	281.5		Bridge									
POGGIB.-CERTALDO	281.1	200-9-SA	799.37	58.80	66.50		66.68	0.000594	1.87	428.54	86.39	0.27
POGGIB.-CERTALDO	281.1	100-9-SA	648.00	58.80	66.31		66.43	0.000436	1.57	411.75	84.90	0.23
POGGIB.-CERTALDO	281.1	30-9-SA	410.20	58.80	65.85		65.91	0.000228	1.10	373.80	81.44	0.16
POGGIB.-CERTALDO	281	200-9-SA	799.37	58.80	66.50		66.68	0.000596	1.87	427.93	86.34	0.27
POGGIB.-CERTALDO	281	100-9-SA	647.84	58.80	66.30		66.43	0.000437	1.57	411.34	84.87	0.23
POGGIB.-CERTALDO	281	30-9-SA	410.13	58.80	65.85		65.91	0.000228	1.10	373.58	81.42	0.16
POGGIB.-CERTALDO	280	200-9-SA	799.28	58.00	66.47		66.64	0.000602	1.82	438.88	92.56	0.27
POGGIB.-CERTALDO	280	100-9-SA	647.30	58.00	66.28		66.40	0.000445	1.54	421.61	91.66	0.23
POGGIB.-CERTALDO	280	30-9-SA	409.95	58.00	65.84		65.90	0.000241	1.08	381.27	89.52	0.17
POGGIB.-CERTALDO	279.99		Lat Struct									
POGGIB.-CERTALDO	279.98		Lat Struct									
POGGIB.-CERTALDO	279.58		Lat Struct									
POGGIB.-CERTALDO	279	200-9-SA	695.91	58.10	66.37		66.56	0.000623	1.93	361.27	157.37	0.27
POGGIB.-CERTALDO	279	100-9-SA	624.96	58.10	66.21		66.37	0.000558	1.79	349.58	157.34	0.26
POGGIB.-CERTALDO	279	30-9-SA	407.00	58.10	65.80		65.88	0.000311	1.27	320.44	156.48	0.19
POGGIB.-CERTALDO	278	200-9-SA	736.11	58.10	66.33		66.60	0.000938	2.32	317.59	130.62	0.33
POGGIB.-CERTALDO	278	100-9-SA	609.58	58.10	66.17		66.37	0.000715	1.98	307.35	130.62	0.29
POGGIB.-CERTALDO	278	30-9-SA	425.35	58.10	65.74		65.86	0.000460	1.52	280.52	129.49	0.23
POGGIB.-CERTALDO	277	200-9-SA	634.54	57.60	66.37		66.61	0.000832	2.15	295.10	58.25	0.30
POGGIB.-CERTALDO	277	100-9-SA	541.20	57.60	66.17		66.36	0.000686	1.91	283.49	58.25	0.28
POGGIB.-CERTALDO	277	30-9-SA	408.88	57.60	65.70		65.83	0.000528	1.60	256.00	57.17	0.24
POGGIB.-CERTALDO	276.99		Lat Struct									
POGGIB.-CERTALDO	276	200-9-SA	558.49	57.88	66.24		66.58	0.001169	2.60	214.49	37.67	0.35
POGGIB.-CERTALDO	276	100-9-SA	516.21	57.88	65.98		66.31	0.001147	2.52	204.81	37.67	0.35
POGGIB.-CERTALDO	276	30-9-SA	447.69	57.88	65.43		65.73	0.001136	2.43	184.41	35.95	0.34
POGGIB.-CERTALDO	275	200-9-SA	540.58	57.47	65.36		66.31	0.004793	4.33	124.77	27.99	0.66
POGGIB.-CERTALDO	275	100-9-SA	510.23	57.47	64.96		65.99	0.005569	4.48	113.82	27.46	0.70
POGGIB.-CERTALDO	275	30-9-SA	447.67	57.47	64.21		65.37	0.006446	4.77	93.94	22.91	0.75
POGGIB.-CERTALDO	274	200-9-SA	540.57	57.39	65.64		65.85	0.000873	2.05	263.21	59.07	0.31
POGGIB.-CERTALDO	274	100-9-SA	510.23	57.39	65.22		65.46	0.001038	2.13	239.02	57.87	0.34
POGGIB.-CERTALDO	274	30-9-SA	447.67	57.39	64.46		64.73	0.001439	2.29	195.80	54.84	0.39
POGGIB.-CERTALDO	273	200-9-SA	538.87	56.94	65.60		65.74	0.000605	1.71	315.66	72.68	0.26
POGGIB.-CERTALDO	273	100-9-SA	510.22	56.94	65.16		65.33	0.000741	1.79	284.34	70.93	0.29
POGGIB.-CERTALDO	273	30-9-SA	447.68	56.94	64.34		64.54	0.001122	1.97	227.59	67.81	0.34
POGGIB.-CERTALDO	272	200-9-SA	773.02	56.54	64.87		65.24	0.001842	2.71	285.65	74.73	0.44
POGGIB.-CERTALDO	272	100-9-SA	655.93	56.54	64.56		64.87	0.001730	2.50	262.55	74.19	0.42
POGGIB.-CERTALDO	272	30-9-SA	480.65	56.54	63.85		64.11	0.001793	2.28	211.04	70.55	0.42
POGGIB.-CERTALDO	271.99		Lat Struct									
POGGIB.-CERTALDO	271	200-9-SA	742.45	56.53	64.74		65.02	0.001247	2.37	313.60	73.95	0.37
POGGIB.-CERTALDO	271	100-9-SA	653.87	56.53	64.38		64.64	0.001279	2.28	286.92	73.38	0.37
POGGIB.-CERTALDO	271	30-9-SA	480.66	56.53	63.65		63.87	0.001310	2.05	234.33	72.24	0.36
POGGIB.-CERTALDO	270	200-9-SA	717.84	54.36	64.50		64.84	0.001366	2.59	277.57	60.02	0.38
POGGIB.-CERTALDO	270	100-9-SA	653.60	54.36	64.09		64.43	0.001515	2.59	252.61	59.40	0.40
POGGIB.-CERTALDO	270	30-9-SA	480.66	54.36	63.40		63.66	0.001409	2.27	212.14	58.39	0.38
POGGIB.-CERTALDO	269	200-9-SA	742.65	54.91	64.02		64.38	0.001825	2.65	280.54	74.94	0.44
POGGIB.-CERTALDO	269	100-9-SA	652.68	54.91	63.60		63.95	0.002029	2.62	249.07	73.24	0.45
POGGIB.-CERTALDO	269	30-9-SA	477.90	54.91	62.85		63.16	0.002318	2.45	195.39	70.59	0.47
POGGIB.-CERTALDO	268.1	200-9-SA	758.84	54.27	63.68		64.12	0.001896	2.92	260.16	58.54	0.44
POGGIB.-CERTALDO	268.1	100-9-SA	652.70	54.27	63.33		63.71	0.001819	2.72	239.67	58.52	0.43
POGGIB.-CERTALDO	268.1	30-9-SA	477.89	54.27	62.60		62.90	0.001802	2.43	196.98	57.97	0.42
POGGIB.-CERTALDO	268	200-9-SA	745.18	54.27	63.68	61.54	64.10	0.001832	2.87	260.02	58.54	0.43
POGGIB.-CERTALDO	268	100-9-SA	652.71	54.27	63.33	61.28	63.71	0.001822	2.72	239.54	58.52	0.43
POGGIB.-CERTALDO	268	30-9-SA	477.88	54.27	62.60	60.03	62.90	0.001805	2.43	196.85	57.94	0.42

HEC-RAS Profile: Max WS

Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
D0	200-9-SA	88.98	86.90	0.44	45.17	37.01
D0	100-9-SA	88.59	86.90	-0.19	34.61	20.41
D0	30-9-SA	86.90	86.90	0.00	0.00	0.00
D10A	200-9-SA	75.75	68.80	0.25	4.61	6.42
D10A	100-9-SA	75.58	68.80	0.02	4.55	5.63
D10A	30-9-SA	73.97	68.80	0.20	0.57	1.11
D10B	200-9-SA	75.87	71.90	0.03	18.97	19.63
D10B	100-9-SA	75.71	71.90	-0.63	18.29	16.65
D10B	30-9-SA	74.38	71.90	0.04	1.39	0.78
D11A	200-9-SA	74.95	71.40	-13.41	72.97	83.73
D11A	100-9-SA	74.45	71.40	1.91	72.07	47.43
D11A	30-9-SA	72.81	71.40	0.02	0.49	0.12
D11B	200-9-SA	74.31	65.90	5.16	67.06	101.19
D11B	100-9-SA	73.86	65.90	5.90	66.68	70.69
D11B	30-9-SA	73.08	65.90	1.39	55.08	20.99
D11C	200-9-SA	75.17	72.40	14.79	27.39	26.49
D11C	100-9-SA	74.36	72.40	1.08	18.75	6.08
D11C	30-9-SA	72.40	72.40	0.00	0.00	0.00
D12A	200-9-SA	74.44	72.50	0.15	15.44	4.28
D12A	100-9-SA	74.14	72.50	0.16	4.87	1.26
D12A	30-9-SA	72.81	72.50	0.00	0.05	0.00
D12B	200-9-SA	74.29	69.80	1.82	172.29	198.47
D12B	100-9-SA	73.84	69.80	0.76	144.38	128.34
D12B	30-9-SA	73.02	69.80	2.95	90.95	34.03
D13	200-9-SA	74.12	66.10	1.14	12.82	20.30
D13	100-9-SA	73.57	66.10	0.93	12.70	13.26
D13	30-9-SA	72.75	66.10	0.12	7.00	3.55
D14	200-9-SA	73.72	69.50	27.85	147.99	135.66
D14	100-9-SA	73.21	69.50	18.84	115.99	69.15
D14	30-9-SA	72.24	69.50	2.30	32.91	10.61
D15A	200-9-SA	72.69	68.70	-31.72	54.06	56.32
D15A	100-9-SA	72.33	68.70	-14.34	53.64	36.78
D15A	30-9-SA	71.79	68.70	-1.20	28.91	11.56
D15B	200-9-SA	72.48	67.50	5.32	60.40	111.38
D15B	100-9-SA	72.11	67.50	3.33	60.32	89.09
D15B	30-9-SA	71.41	67.50	1.05	60.02	46.95
D16	200-9-SA	73.03	69.80	19.42	87.55	118.91
D16	100-9-SA	72.12	69.80	2.61	61.41	53.65
D16	30-9-SA	71.18	69.80	0.55	21.76	5.95
D17A	200-9-SA	71.85	63.70	2.98	140.52	304.94
D17A	100-9-SA	71.32	63.70	0.72	139.66	230.69
D17A	30-9-SA	70.30	63.70	2.28	134.05	89.61
D17B	200-9-SA	70.74	67.20	0.64	56.24	112.61
D17B	100-9-SA	70.28	67.20	1.90	54.16	87.10

HEC-RAS Profile: Max WS (Continued)

Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
D17B	30-9-SA	69.50	67.20	0.57	52.43	45.63
D17C	200-9-SA	70.89	67.90	-0.27	48.25	94.54
D17C	100-9-SA	70.37	67.90	-1.86	47.70	69.87
D17C	30-9-SA	69.62	67.90	0.03	47.13	34.30
D17D	200-9-SA	71.41	67.80	0.06	13.31	17.67
D17D	100-9-SA	71.04	67.80	0.31	11.30	13.22
D17D	30-9-SA	70.24	67.80	-0.08	8.75	5.40
D18	200-9-SA	70.43	65.20	1.41	104.19	80.96
D18	100-9-SA	70.02	65.20	1.09	78.44	44.52
D18	30-9-SA	69.29	65.20	0.07	21.81	13.95
D19	200-9-SA	67.45	63.30	8.31	391.83	470.96
D19	100-9-SA	66.66	63.30	14.20	276.29	210.05
D19	30-9-SA	63.30	63.30	0.00	0.00	0.00
D1A	200-9-SA	88.99	82.80	2.69	82.21	88.93
D1A	100-9-SA	88.58	82.80	4.83	76.54	56.41
D1A	30-9-SA	87.70	82.80	1.86	24.07	9.12
D1B	200-9-SA	86.57	82.30	5.63	94.66	77.58
D1B	100-9-SA	86.22	82.30	1.57	85.35	46.11
D1B	30-9-SA	82.30	82.30	0.00	0.00	0.00
D1C	200-9-SA	85.64	82.70	2.36	104.73	87.65
D1C	100-9-SA	85.36	82.70	0.48	80.02	60.97
D1C	30-9-SA	84.56	82.70	0.66	31.29	14.18
D1D	200-9-SA	88.58	82.50	1.34	51.73	17.50
D1D	100-9-SA	86.64	82.50	0.04	0.12	0.15
D1D	30-9-SA	82.50	82.50	0.00	0.00	0.00
D2	200-9-SA	82.89	76.50	0.94	77.65	62.68
D2	100-9-SA	82.42	76.50	0.70	68.53	28.87
D2	30-9-SA	81.83	76.50	0.15	19.55	7.42
D20	200-9-SA	61.90	61.90	0.00	0.02	0.00
D20	100-9-SA	61.90	61.90	0.00	0.02	0.00
D20	30-9-SA	61.90	61.90	0.00	0.02	0.00
D21	200-9-SA	61.80	61.80	0.00	0.01	0.00
D21	100-9-SA	61.80	61.80	0.00	0.01	0.00
D21	30-9-SA	61.80	61.80	0.00	0.01	0.00
D22	200-9-SA	66.15	58.20	4.80	217.74	581.23
D22	100-9-SA	64.23	58.20	10.47	146.02	246.43
D22	30-9-SA	58.20	58.20	0.00	0.03	0.00
D23	200-9-SA	65.19	58.80	26.10	319.93	587.60
D23	100-9-SA	63.46	58.80	6.41	178.16	158.40
D23	30-9-SA	58.80	58.80	0.00	0.02	0.00
D3	200-9-SA	82.87	80.40	0.08	2.10	0.89
D3	100-9-SA	80.40	80.40	0.00	0.02	0.00
D3	30-9-SA	80.40	80.40	0.00	0.02	0.00

HEC-RAS Profile: Max WS (Continued)

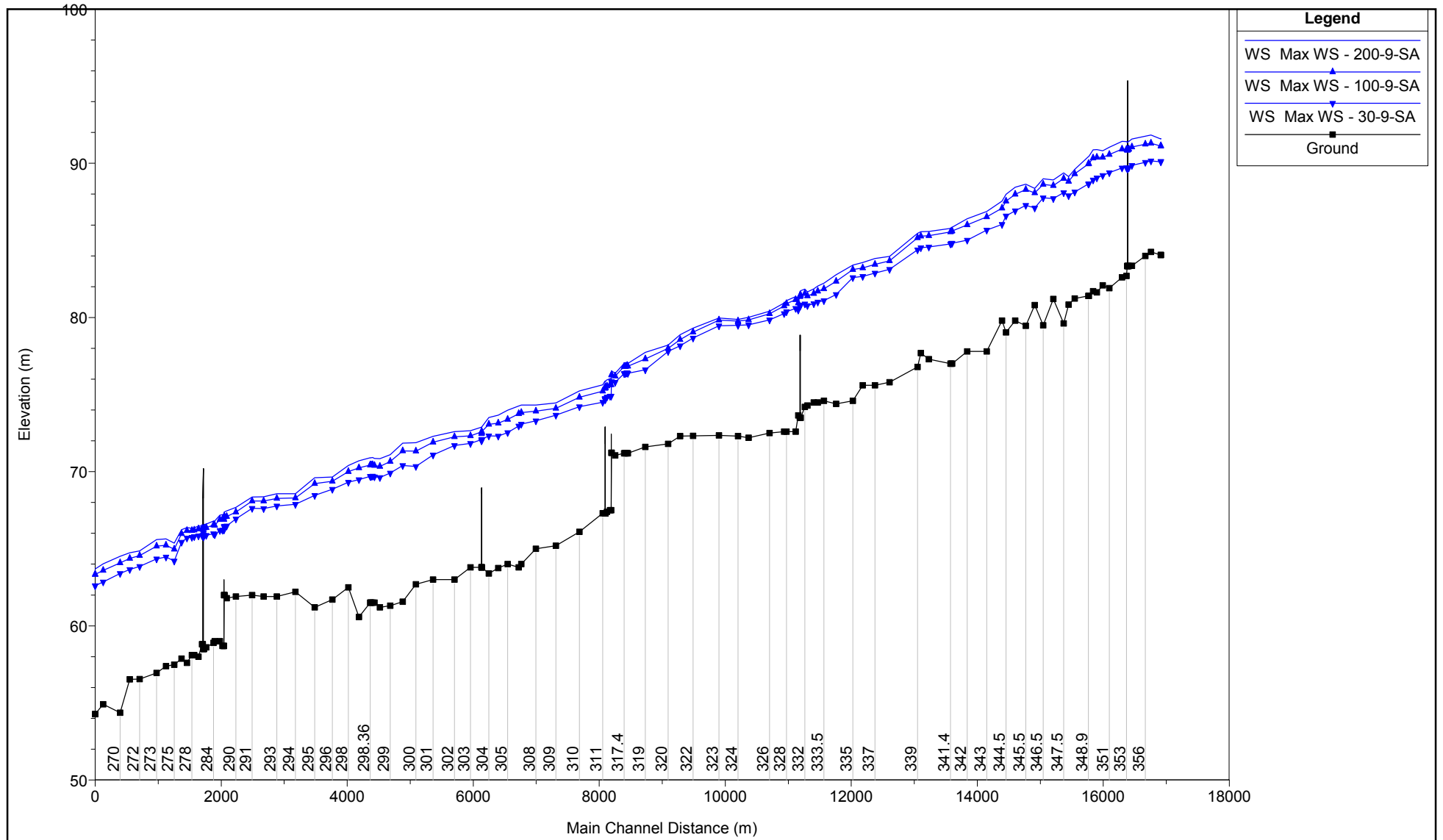
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
D4A	200-9-SA	82.87	80.50	0.22	9.12	3.04
D4A	100-9-SA	82.15	80.50	0.00	0.62	0.18
D4A	30-9-SA	80.50	80.50	0.00	0.01	0.00
D4B	200-9-SA	82.78	80.30	0.03	20.22	8.80
D4B	100-9-SA	82.05	80.30	0.11	3.38	0.54
D4B	30-9-SA	80.30	80.30	0.00	0.00	0.00
D5	200-9-SA	81.22	76.00	0.55	18.64	24.10
D5	100-9-SA	81.03	76.00	2.26	16.27	21.01
D5	30-9-SA	80.51	76.00	0.62	11.62	13.89
D6A	200-9-SA	80.68	77.20	2.24	15.25	15.39
D6A	100-9-SA	80.49	77.20	1.18	13.83	12.62
D6A	30-9-SA	77.20	77.20	0.00	0.03	0.00
D6B	200-9-SA	80.92	75.70	-0.01	6.51	5.96
D6B	100-9-SA	78.17	75.70	0.08	0.38	0.57
D6B	30-9-SA	75.70	75.70	0.00	0.03	0.00
D7	200-9-SA	79.78	74.70	5.58	60.66	105.30
D7	100-9-SA	79.59	74.70	3.10	56.80	93.96
D7	30-9-SA	79.24	74.70	0.74	53.44	74.40
D8A	200-9-SA	77.86	73.50	0.66	72.04	108.02
D8A	100-9-SA	77.51	73.50	0.81	67.36	84.02
D8A	30-9-SA	76.68	73.50	1.24	57.74	31.83
D8B	200-9-SA	76.44	74.20	0.35	54.59	70.73
D8B	100-9-SA	76.17	74.20	0.03	51.83	56.48
D8B	30-9-SA	75.46	74.20	1.65	44.43	22.05
D8C	200-9-SA	76.34	72.90	0.17	9.31	12.98
D8C	100-9-SA	76.06	72.90	0.34	9.29	10.37
D8C	30-9-SA	75.38	72.90	0.32	8.54	4.23
D9	200-9-SA	75.87	73.80	-0.09	10.49	4.45
D9	100-9-SA	75.71	73.80	0.69	8.08	3.00
D9	30-9-SA	74.38	73.80	0.00	0.10	0.02
S10A	200-9-SA	69.43	63.90	2.99	234.07	410.78
S10A	100-9-SA	69.06	63.90	2.07	233.76	324.17
S10A	30-9-SA	68.31	63.90	0.82	230.62	150.31
S10B	200-9-SA	68.68	66.40	0.39	62.31	54.97
S10B	100-9-SA	68.32	66.40	0.14	49.62	34.52
S10B	30-9-SA	67.79	66.40	0.47	27.32	13.63
S11A	200-9-SA	68.60	65.20	-16.91	33.87	50.12
S11A	100-9-SA	68.23	65.20	-15.04	33.63	37.45
S11A	30-9-SA	67.61	65.20	-9.56	32.94	16.89
S11B	200-9-SA	68.35	63.00	3.97	49.18	118.28
S11B	100-9-SA	68.07	63.00	-2.21	49.15	104.52
S11B	30-9-SA	67.57	63.00	0.84	48.83	80.17
S11C	200-9-SA	68.64	65.80	18.96	61.91	75.09
S11C	100-9-SA	68.28	65.80	16.62	54.86	54.13

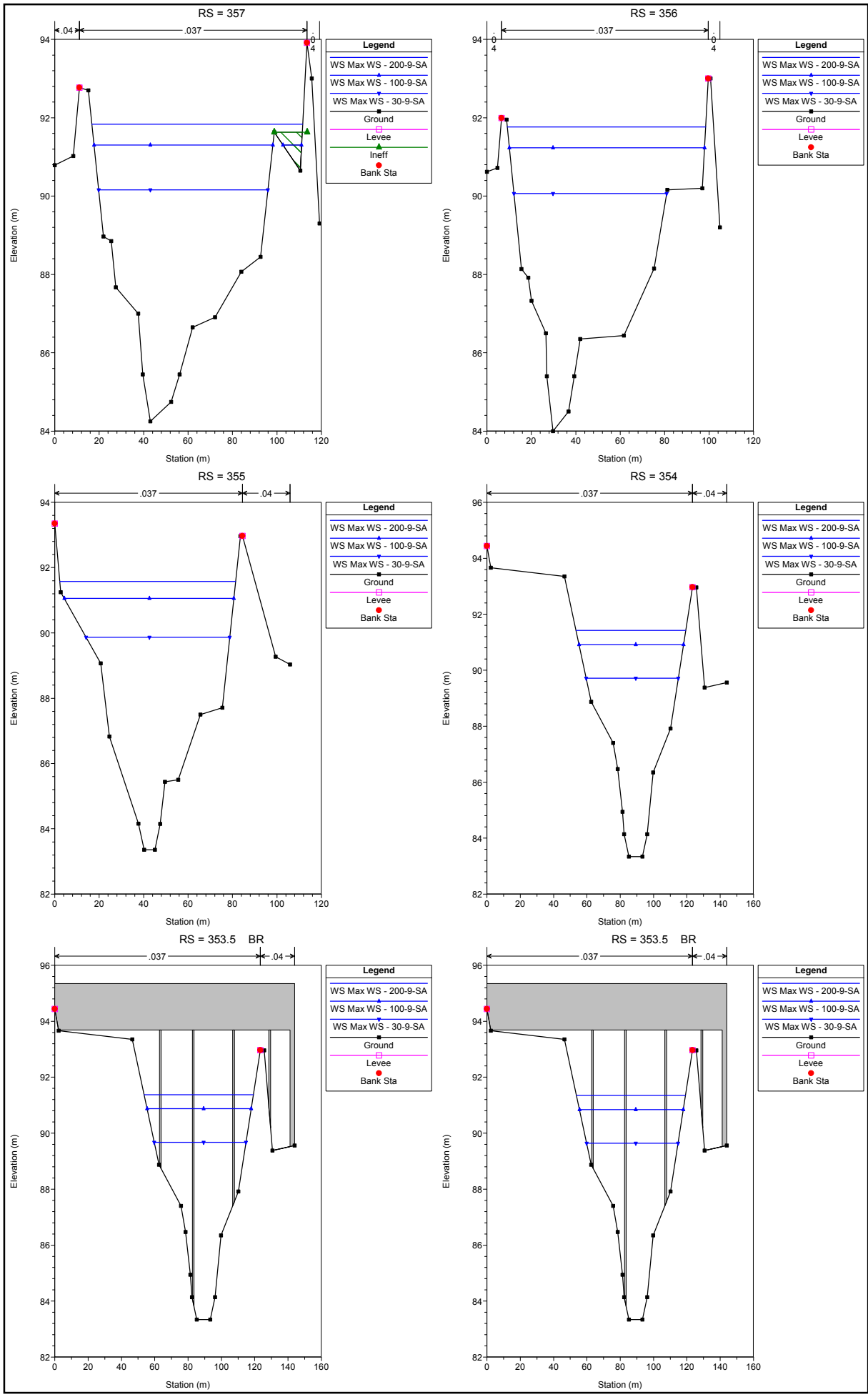
HEC-RAS Profile: Max WS (Continued)

Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
S11C	30-9-SA	67.76	65.80	10.42	41.04	28.69
S11D	200-9-SA	68.45	64.40	0.81	66.90	70.37
S11D	100-9-SA	68.16	64.40	0.88	61.16	52.19
S11D	30-9-SA	67.71	64.40	0.43	44.40	28.44
S11E	200-9-SA	68.44	63.10	12.08	121.13	161.60
S11E	100-9-SA	68.15	63.10	6.24	117.31	127.40
S11E	30-9-SA	67.57	63.10	1.18	81.74	71.03
S12A	200-9-SA	67.54	63.40	6.35	31.52	80.18
S12A	100-9-SA	67.19	63.40	0.35	31.34	68.97
S12A	30-9-SA	66.54	63.40	0.07	30.59	48.74
S12B	200-9-SA	67.27	60.40	0.30	84.55	82.05
S12B	100-9-SA	66.95	60.40	0.42	64.35	57.96
S12B	30-9-SA	66.21	60.40	2.16	37.83	19.76
S13A	200-9-SA	65.46	62.10	5.69	80.17	153.38
S13A	100-9-SA	65.13	62.10	0.46	74.32	128.67
S13A	30-9-SA	64.53	62.10	0.50	68.19	85.80
S13B	200-9-SA	64.29	57.90	1.65	147.11	344.27
S13B	100-9-SA	61.53	57.90	2.36	72.03	21.76
S13B	30-9-SA	57.90	57.90	0.00	0.00	0.00
S1A	200-9-SA	90.20	89.10	0.18	1.38	0.36
S1A	100-9-SA	89.10	89.10	0.00	0.00	0.00
S1A	30-9-SA	89.10	89.10	0.00	0.00	0.00
S1B	200-9-SA	90.72	86.70	0.02	47.86	57.15
S1B	100-9-SA	90.23	86.70	0.61	39.41	35.36
S1B	30-9-SA	86.70	86.70	0.00	0.01	0.00
S1C	200-9-SA	89.20	89.20	0.00	0.01	0.00
S1C	100-9-SA	89.20	89.20	0.00	0.01	0.00
S1C	30-9-SA	89.20	89.20	0.00	0.01	0.00
S2A	200-9-SA	90.39	82.70	0.10	45.69	49.81
S2A	100-9-SA	89.99	82.70	0.42	35.84	32.31
S2A	30-9-SA	82.70	82.70	0.00	0.00	0.00
S2B	200-9-SA	88.53	82.50	8.93	100.87	134.35
S2B	100-9-SA	88.20	82.50	9.48	91.92	102.75
S2B	30-9-SA	87.33	82.50	0.86	54.01	42.78
S2C	200-9-SA	85.49	83.70	0.17	20.39	9.81
S2C	100-9-SA	85.13	83.70	0.20	11.83	3.69
S2C	30-9-SA	83.70	83.70	0.00	0.01	0.00
S3A	200-9-SA	84.93	81.20	0.61	259.02	359.86
S3A	100-9-SA	84.67	81.20	1.09	235.22	295.81
S3A	30-9-SA	82.82	81.20	2.29	504.11	11.24
S3B	200-9-SA	83.69	79.90	0.02	105.96	77.19
S3B	100-9-SA	83.30	79.90	0.76	71.12	43.12
S3B	30-9-SA	82.53	79.90	0.55	19.94	7.33

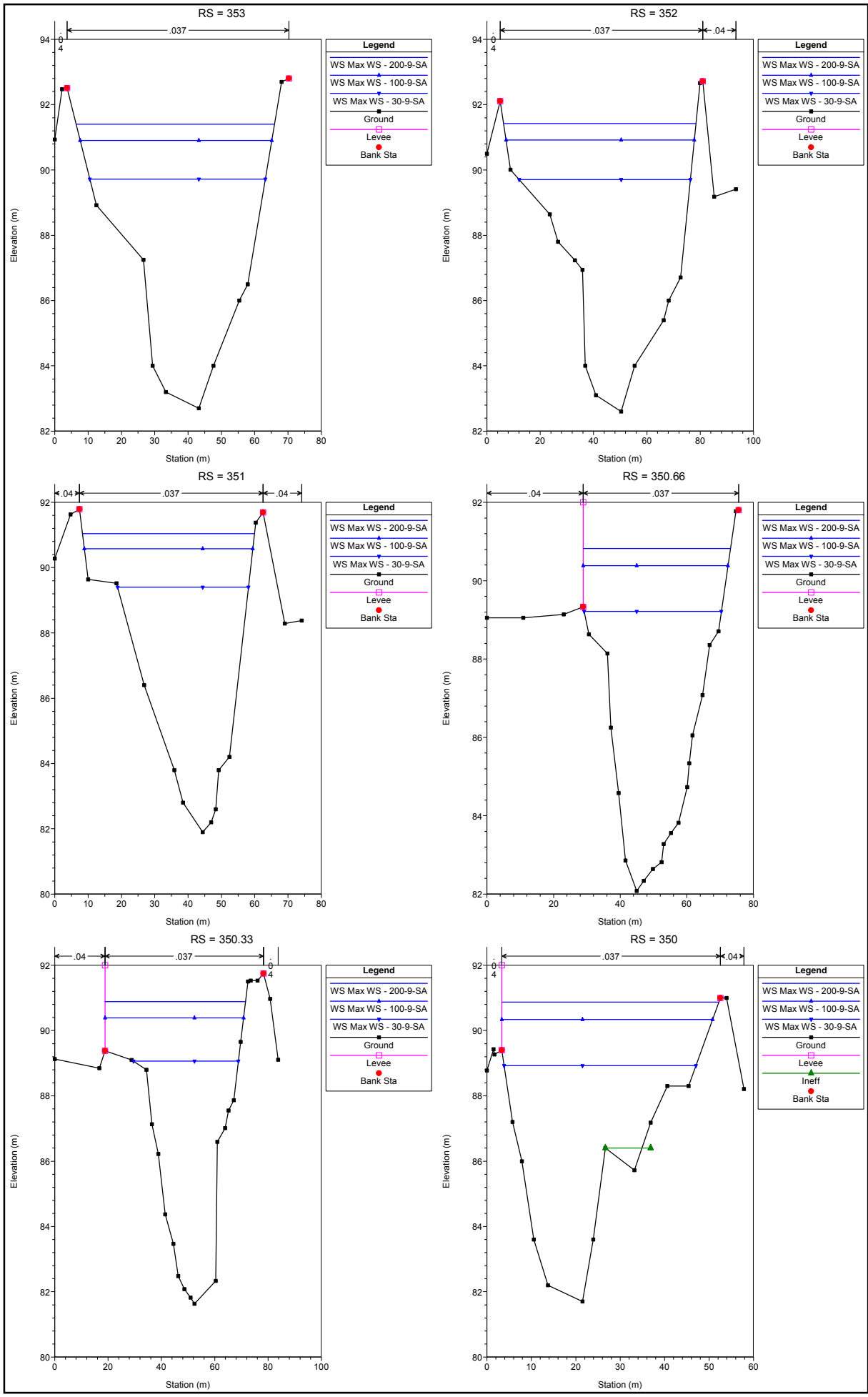
HEC-RAS Profile: Max WS (Continued)

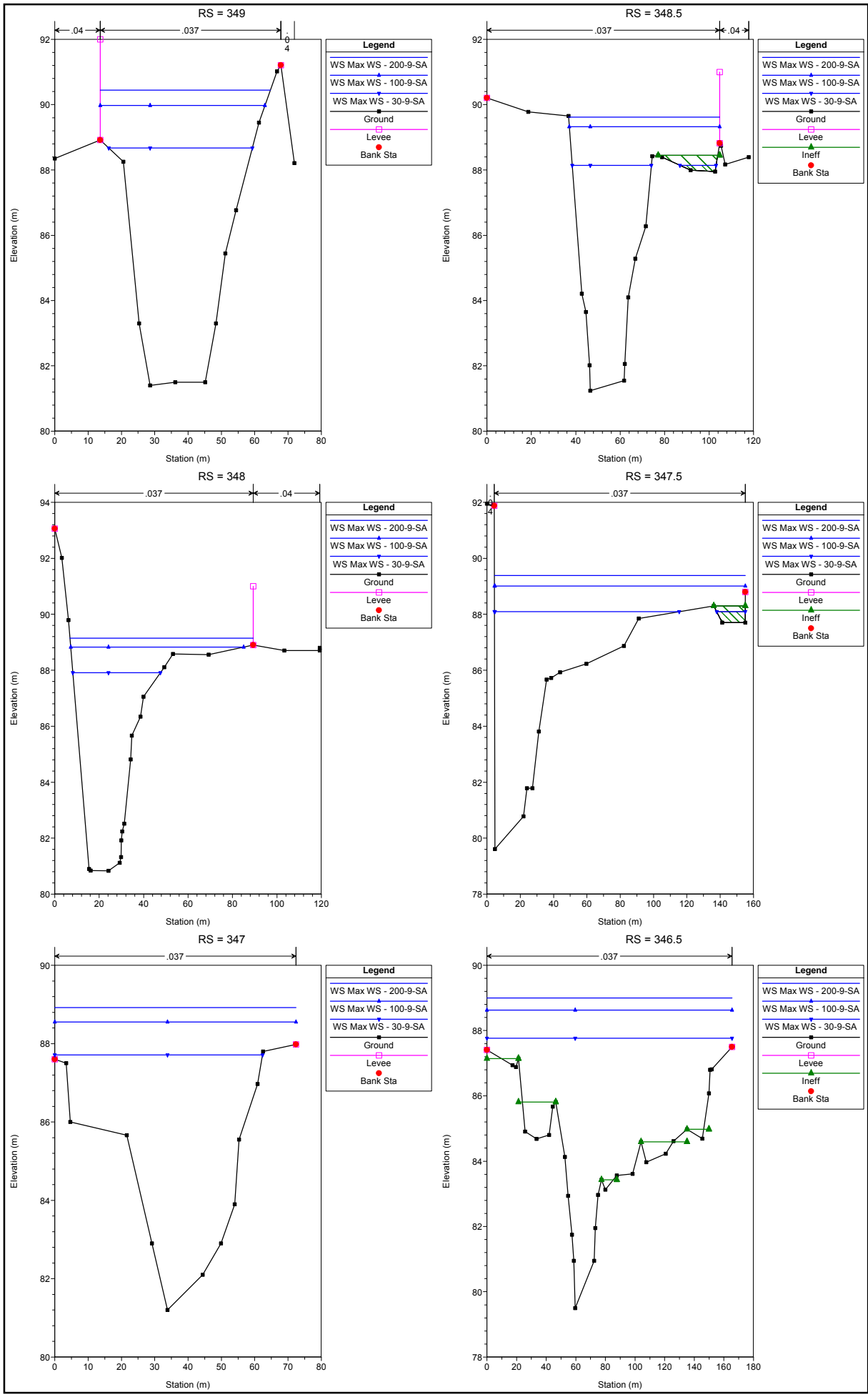
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
S4A	200-9-SA	82.12	78.60	0.75	156.07	65.39
S4A	100-9-SA	82.01	78.60	0.76	156.07	48.32
S4A	30-9-SA	81.57	78.60	1.05	38.26	10.46
S4B	200-9-SA	80.28	75.20	1.07	152.01	101.06
S4B	100-9-SA	79.70	75.20	0.17	72.48	38.90
S4B	30-9-SA	78.85	75.20	-0.06	16.63	5.05
S5	200-9-SA	79.57	74.30	8.83	734.73	1233.31
S5	100-9-SA	78.98	74.30	18.98	646.25	809.91
S5	30-9-SA	78.09	74.30	8.69	407.64	330.49
S6A	200-9-SA	78.51	74.10	0.24	95.61	232.73
S6A	100-9-SA	78.13	74.10	0.88	95.29	196.67
S6A	30-9-SA	77.56	74.10	2.91	94.31	142.24
S6B	200-9-SA	75.75	73.00	0.86	83.51	62.59
S6B	100-9-SA	75.43	73.00	0.69	71.71	38.03
S6B	30-9-SA	74.96	73.00	0.29	30.30	13.31
S6C	200-9-SA	77.47	73.30	0.95	65.42	126.78
S6C	100-9-SA	77.12	73.30	2.18	65.34	104.00
S6C	30-9-SA	76.51	73.30	1.74	64.65	64.15
S7A	200-9-SA	75.41	67.50	1.36	159.90	187.06
S7A	100-9-SA	74.99	67.50	-0.23	128.45	123.00
S7A	30-9-SA	74.43	67.50	0.03	90.77	61.31
S7B	200-9-SA	74.49	69.80	1.17	44.05	43.17
S7B	100-9-SA	74.05	69.80	0.41	42.17	24.55
S7B	30-9-SA	73.07	69.80	0.13	1.43	0.58
S8	200-9-SA	74.15	65.70	8.32	116.46	195.23
S8	100-9-SA	73.66	65.70	1.87	111.53	139.24
S8	30-9-SA	72.62	65.70	0.49	82.16	37.36
S9A	200-9-SA	72.63	66.90	2.05	62.55	71.64
S9A	100-9-SA	72.29	66.90	0.46	58.31	51.18
S9A	30-9-SA	71.75	66.90	0.20	48.61	22.00
S9B	200-9-SA	72.30	66.00	6.78	166.57	260.48
S9B	100-9-SA	71.89	66.00	2.31	160.84	193.71
S9B	30-9-SA	70.99	66.00	1.33	104.95	63.00
S9C	200-9-SA	71.99	65.00	2.78	54.98	98.44
S9C	100-9-SA	71.44	65.00	0.74	50.84	69.39
S9C	30-9-SA	70.23	65.00	2.27	36.08	16.85

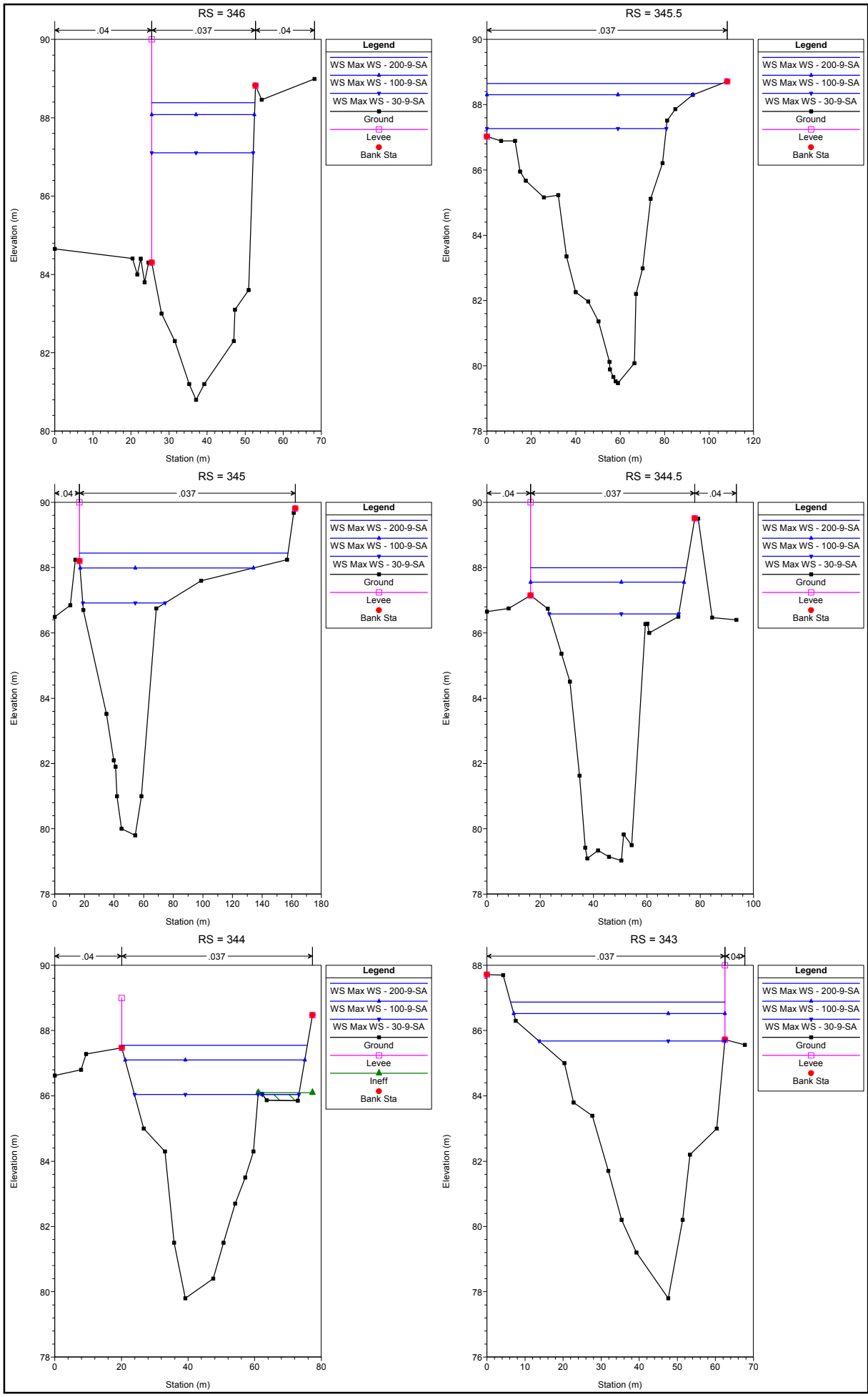


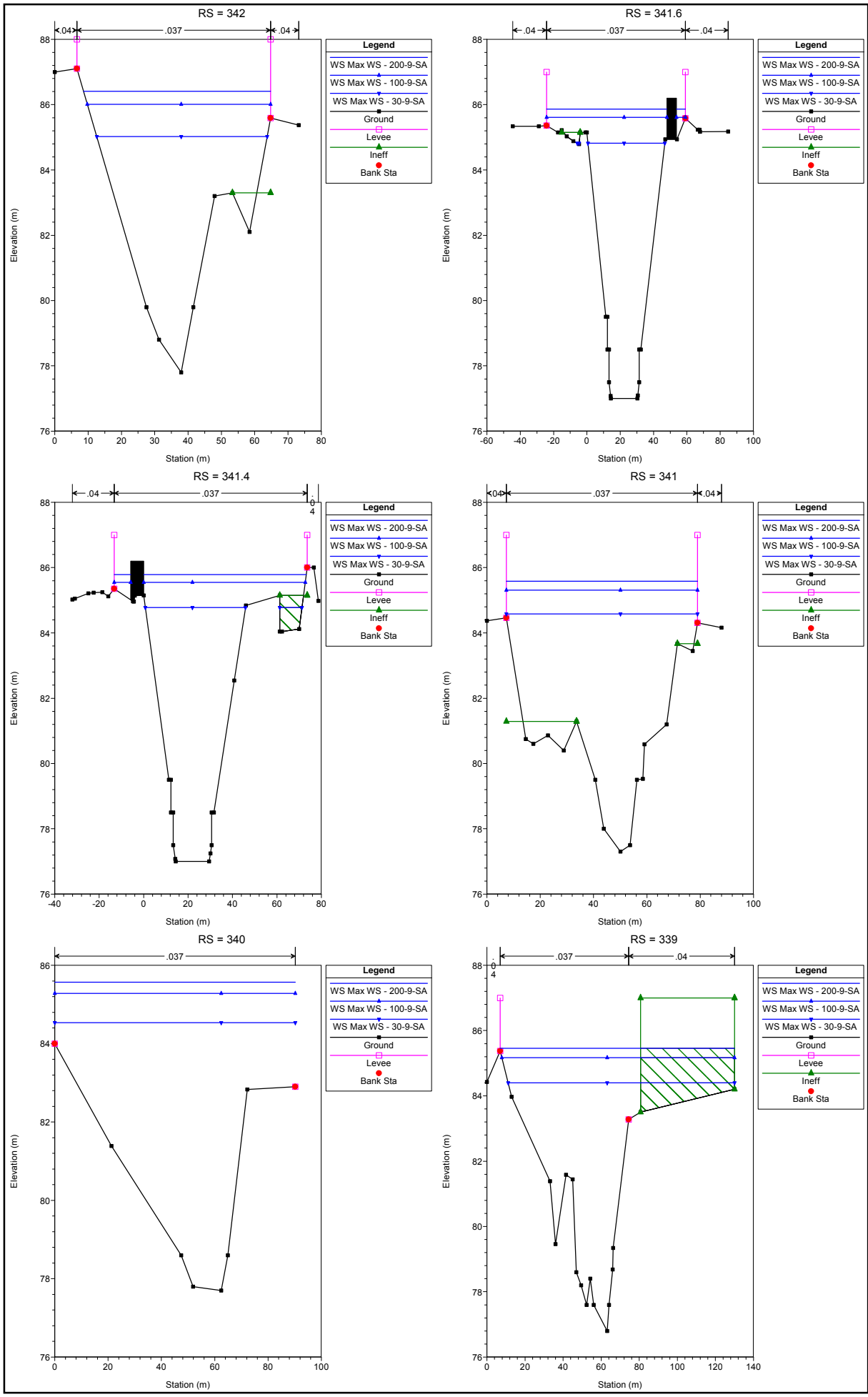


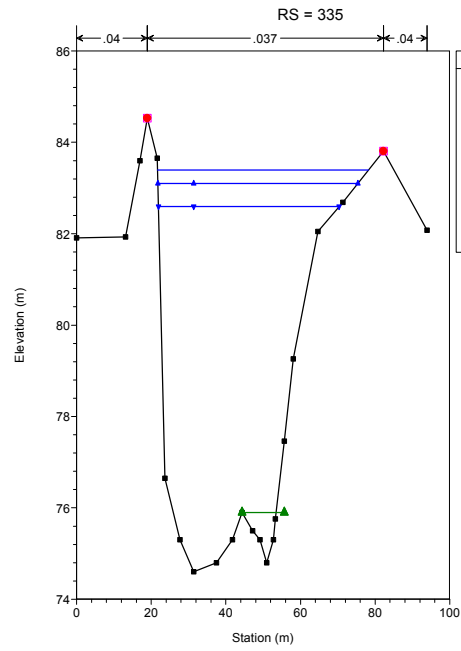
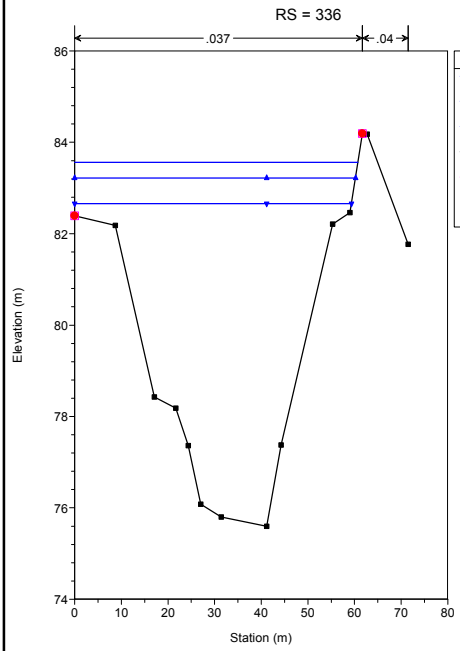
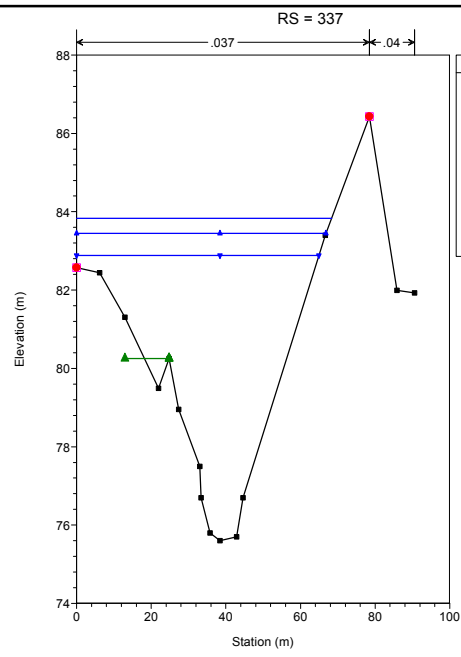
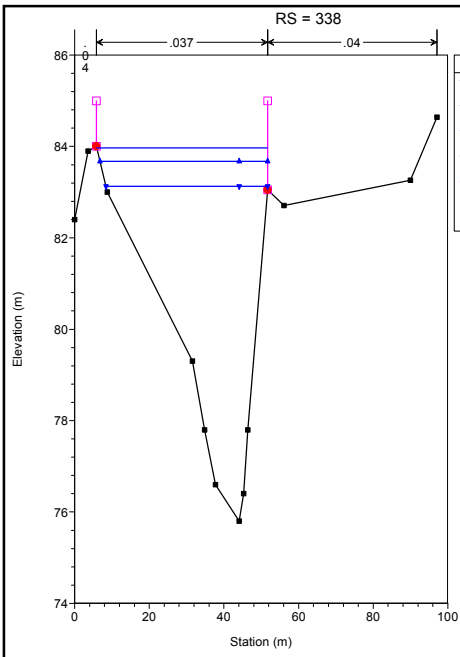












HEC-RAS River: ELSA Reach: ELSA MONTE Profile: Max WS

Reach	River Sta	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
ELSA MONTE	398	200-6	430.31	109.60	116.14		116.81	0.003897	3.69	124.46	38.94	0.58
ELSA MONTE	398	100-6	359.59	109.60	115.75		116.35	0.003805	3.47	109.13	38.27	0.57
ELSA MONTE	398	30-6	257.77	109.60	115.13		115.59	0.003428	3.02	86.36	32.38	0.53
ELSA MONTE	397.9	200-6	430.35	109.22	116.46	113.19	116.72	0.000838	2.42	208.29	40.35	0.30
ELSA MONTE	397.9	100-6	359.64	109.22	116.04	112.87	116.25	0.000744	2.18	191.63	39.44	0.28
ELSA MONTE	397.9	30-6	257.78	109.22	115.37	112.36	115.51	0.000585	1.79	165.48	37.95	0.25
ELSA MONTE	397.5		Bridge									
ELSA MONTE	397.1	200-6	430.33	109.22	116.30		116.57	0.000918	2.49	201.78	40.00	0.32
ELSA MONTE	397.1	100-6	359.61	109.22	115.92		116.14	0.000800	2.23	186.86	39.17	0.29
ELSA MONTE	397.1	30-6	257.78	109.22	115.29		115.44	0.000614	1.82	162.72	37.79	0.25
ELSA MONTE	396	200-6	430.32	109.98	115.47		116.46	0.007193	4.42	98.76	33.65	0.79
ELSA MONTE	396	100-6	359.61	109.98	115.14		116.00	0.007237	4.12	87.88	32.32	0.77
ELSA MONTE	396	30-6	257.76	109.98	114.61		115.28	0.007122	3.63	71.20	30.17	0.75
ELSA MONTE	395	200-6	430.13	107.40	113.42		113.65	0.001432	2.32	223.64	78.80	0.37
ELSA MONTE	395	100-6	359.40	107.40	113.02		113.24	0.001548	2.25	191.96	78.17	0.37
ELSA MONTE	395	30-6	257.49	107.40	112.31		112.52	0.001914	2.17	138.70	72.46	0.40
ELSA MONTE	394.9	200-6	435.33	108.24	113.22	111.79	113.63	0.001560	2.85	152.61	44.17	0.49
ELSA MONTE	394.9	100-6	363.63	108.24	112.85	111.52	113.21	0.001526	2.66	136.54	43.29	0.48
ELSA MONTE	394.9	30-6	260.20	108.24	112.20	111.10	112.49	0.001555	2.39	109.07	41.73	0.47
ELSA MONTE	394.5		Bridge									
ELSA MONTE	394.1	200-6	435.24	108.24	112.95		113.44	0.001984	3.09	140.96	43.53	0.55
ELSA MONTE	394.1	100-6	363.54	108.24	112.66		113.07	0.001841	2.83	128.37	42.83	0.52
ELSA MONTE	394.1	30-6	260.13	108.24	112.08		112.40	0.001804	2.50	103.92	41.43	0.50
ELSA MONTE	393	200-6	435.23	106.72	112.91		113.26	0.002552	2.67	175.53	74.94	0.47
ELSA MONTE	393	100-6	363.51	106.72	112.57		112.89	0.002615	2.53	150.63	70.98	0.47
ELSA MONTE	393	30-6	260.11	106.72	111.93		112.21	0.002977	2.33	111.72	51.01	0.48
ELSA MONTE	392.888*	200-6	435.15	106.21	112.53		112.90	0.002656	2.74	171.27	74.33	0.48
ELSA MONTE	392.888*	100-6	363.41	106.21	112.18		112.52	0.002739	2.60	146.01	68.76	0.48
ELSA MONTE	392.888*	30-6	260.01	106.21	111.47		111.78	0.003380	2.47	105.18	44.41	0.51
ELSA MONTE	392.777*	200-6	435.06	105.69	112.14		112.53	0.002782	2.81	166.80	74.00	0.49
ELSA MONTE	392.777*	100-6	363.30	105.69	111.77		112.14	0.002883	2.68	141.13	66.24	0.49
ELSA MONTE	392.777*	30-6	259.94	105.69	110.92		111.28	0.003805	2.67	97.39	39.90	0.55
ELSA MONTE	392.666*	200-6	435.02	105.19	111.71		112.13	0.002952	2.88	161.59	73.61	0.51
ELSA MONTE	392.666*	100-6	363.23	105.19	111.34		111.72	0.003079	2.76	135.70	62.67	0.51
ELSA MONTE	392.666*	30-6	259.91	105.19	110.35		110.77	0.004530	2.88	90.25	37.49	0.59
ELSA MONTE	392.555*	200-6	434.96	104.68	111.27		111.71	0.003144	2.96	156.15	71.28	0.52
ELSA MONTE	392.555*	100-6	363.18	104.68	110.86		111.28	0.003354	2.86	129.67	57.76	0.53
ELSA MONTE	392.555*	30-6	259.89	104.68	109.86		110.29	0.003255	2.91	89.38	27.84	0.52
ELSA MONTE	392.444*	200-6	434.91	104.17	110.80		111.26	0.003316	3.02	150.74	68.66	0.53
ELSA MONTE	392.444*	100-6	363.14	104.17	110.35		110.79	0.003717	2.96	123.37	50.75	0.55
ELSA MONTE	392.444*	30-6	259.88	104.17	109.43		109.85	0.003128	2.85	91.14	28.30	0.51
ELSA MONTE	392.333*	200-6	434.87	103.66	110.32		110.79	0.003419	3.07	146.38	64.40	0.54
ELSA MONTE	392.333*	100-6	363.13	103.66	109.82		110.29	0.003787	3.02	120.18	40.09	0.56
ELSA MONTE	392.333*	30-6	259.87	103.66	109.04		109.42	0.002919	2.76	94.15	29.04	0.49
ELSA MONTE	392.222*	200-6	434.86	103.15	109.84		110.32	0.003508	3.06	144.75	60.42	0.54
ELSA MONTE	392.222*	100-6	363.13	103.15	109.37		109.82	0.003132	2.96	122.77	36.02	0.51
ELSA MONTE	392.222*	30-6	259.87	103.15	108.67		109.03	0.002908	2.64	98.48	32.49	0.48
ELSA MONTE	392.111*	200-6	434.85	102.64	109.42		109.86	0.003108	2.93	150.08	58.56	0.51
ELSA MONTE	392.111*	100-6	363.11	102.64	109.01		109.40	0.002972	2.78	130.61	40.52	0.49
ELSA MONTE	392.111*	30-6	259.86	102.64	108.34		108.65	0.002606	2.46	105.74	35.75	0.46
ELSA MONTE	392	200-6	431.40	102.13	109.11		109.48	0.002372	2.68	162.69	58.67	0.44
ELSA MONTE	392	100-6	363.04	102.13	108.72		109.04	0.002330	2.52	143.95	42.30	0.44
ELSA MONTE	392	30-6	259.83	102.13	108.07		108.32	0.002061	2.23	116.78	38.20	0.41
ELSA MONTE	391.9	200-6	437.86	102.03	108.76	107.69	109.41	0.004242	4.06	131.04	35.13	0.56
ELSA MONTE	391.9	100-6	365.65	102.03	108.43	107.41	108.98	0.003897	3.73	119.40	35.13	0.53
ELSA MONTE	391.9	30-6	261.63	102.03	107.86	106.92	108.28	0.003398	3.21	99.46	34.68	0.49
ELSA MONTE	391.5		Bridge									
ELSA MONTE	391.1	200-6	437.86	102.03	108.62		109.33	0.004751	4.22	126.13	35.13	0.59
ELSA MONTE	391.1	100-6	365.65	102.03	108.31		108.91	0.004322	3.87	115.29	35.13	0.56
ELSA MONTE	391.1	30-6	261.63	102.03	107.77		108.21	0.003744	3.32	96.16	34.53	0.51
ELSA MONTE	390	200-6	437.86	102.81	108.50		109.04	0.003187	3.41	153.16	75.92	0.54
ELSA MONTE	390	100-6	365.64	102.81	108.18		108.70	0.003200	3.24	123.28	50.56	0.53
ELSA MONTE	390	30-6	261.62	102.81	107.62		108.02	0.003004	2.82	95.64	46.34	0.50
ELSA MONTE	389	200-6	437.85	102.12	108.12	107.07	108.89	0.005014	3.92	121.13	74.65	0.65
ELSA MONTE	389	100-6	365.62	102.12	107.92		108.55	0.004327	3.51	105.86	54.45	0.60
ELSA MONTE	389	30-6	261.61	102.12	107.49		107.90	0.003191	2.86	91.44	27.99	0.51
ELSA MONTE	388	200-6	437.84	102.27	108.18		108.74	0.002963	3.37	141.25	62.80	0.52
ELSA MONTE	388	100-6	365.63	102.27	107.94		108.39	0.002563	3.01	126.88	56.83	0.48
ELSA MONTE	388	30-6	261.60	102.27	107.49		107.79	0.001914	2.44	108.11	34.90	0.41

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

Reach	River Sta	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
ELSA MONTE	387	200-6	437.83	102.16	108.05		108.54	0.003406	3.36	162.49	77.17	0.55
ELSA MONTE	387	100-6	365.60	102.16	107.75		108.21	0.003456	3.21	140.16	73.23	0.54
ELSA MONTE	387	30-6	261.58	102.16	107.21		107.63	0.003454	2.96	102.17	62.77	0.53
ELSA MONTE	386.988*	200-6	437.85	101.88	107.71		108.20	0.003385	3.35	160.59	76.36	0.55
ELSA MONTE	386.988*	100-6	365.62	101.88	107.41		107.87	0.003429	3.19	138.39	72.22	0.54
ELSA MONTE	386.988*	30-6	261.57	101.88	106.87		107.29	0.003473	2.94	100.82	62.96	0.54
ELSA MONTE	386.977*	200-6	437.87	101.61	107.38		107.87	0.003345	3.33	159.33	75.31	0.55
ELSA MONTE	386.977*	100-6	365.62	101.61	107.08		107.54	0.003355	3.16	137.60	71.61	0.54
ELSA MONTE	386.977*	30-6	261.55	101.61	106.53		106.95	0.003464	2.91	100.12	63.79	0.54
ELSA MONTE	386.966*	200-6	428.16	101.33	107.05		107.52	0.003124	3.23	159.08	74.20	0.53
ELSA MONTE	386.966*	100-6	365.62	101.33	106.77		107.22	0.003224	3.11	138.23	70.94	0.53
ELSA MONTE	386.966*	30-6	261.54	101.33	106.21		106.62	0.003398	2.86	100.61	65.35	0.53
ELSA MONTE	386.955*	200-6	425.94	101.05	106.77		107.22	0.002884	3.12	161.99	73.54	0.51
ELSA MONTE	386.955*	100-6	365.61	101.05	106.48		106.91	0.003004	3.02	140.90	70.17	0.52
ELSA MONTE	386.955*	30-6	261.53	101.05	105.91		106.29	0.003229	2.78	102.54	63.69	0.52
ELSA MONTE	386.944*	200-6	427.14	100.78	106.50		106.93	0.002687	3.04	165.53	72.56	0.50
ELSA MONTE	386.944*	100-6	365.61	100.78	106.23		106.62	0.002686	2.90	146.25	69.60	0.49
ELSA MONTE	386.944*	30-6	261.52	100.78	105.65		106.00	0.002807	2.65	107.41	62.56	0.49
ELSA MONTE	386.933*	200-6	423.76	100.50	106.30		106.67	0.002286	2.86	173.83	72.02	0.46
ELSA MONTE	386.933*	100-6	365.62	100.50	106.02		106.37	0.002302	2.73	154.42	69.22	0.46
ELSA MONTE	386.933*	30-6	203.02	100.50	105.54		105.70	0.001251	1.85	121.89	63.73	0.33
ELSA MONTE	386.922*	200-6	425.56	100.22	106.10		106.44	0.002007	2.73	181.91	71.04	0.44
ELSA MONTE	386.922*	100-6	365.63	100.22	105.86		106.16	0.001905	2.55	165.15	68.85	0.42
ELSA MONTE	386.922*	30-6	197.24	100.22	105.41		105.54	0.000902	1.63	135.54	64.08	0.28
ELSA MONTE	386.911*	200-6	419.15	99.94	105.98		106.26	0.001578	2.50	195.31	70.47	0.39
ELSA MONTE	386.911*	100-6	365.64	99.94	105.73		105.99	0.001537	2.36	177.96	68.37	0.38
ELSA MONTE	386.911*	30-6	198.06	99.94	105.37		105.47	0.000658	1.45	154.16	65.46	0.25
ELSA MONTE	386.9	200-6	429.71	99.67	105.79	103.82	106.07	0.001447	2.44	203.66	69.14	0.38
ELSA MONTE	386.9	100-6	365.66	99.67	105.62	103.52	105.85	0.001228	2.18	192.06	67.76	0.34
ELSA MONTE	386.9	30-6	190.13	99.67	105.28	102.51	105.35	0.000469	1.27	168.94	65.14	0.21
ELSA MONTE	386.5		Bridge									
ELSA MONTE	386.1	200-6	437.92	99.67	105.30		105.70	0.002435	2.91	170.27	65.29	0.48
ELSA MONTE	386.1	100-6	190.96	99.67	105.20		105.29	0.000559	1.37	147.42	50.59	0.23
ELSA MONTE	386.1	30-6	190.13	99.67	105.23		105.31	0.000494	1.29	165.69	64.77	0.21
ELSA MONTE	385	200-6	437.90	98.95	104.54		104.69	0.001221	2.07	303.97	159.34	0.33
ELSA MONTE	385	100-6	365.45	98.95	104.00		104.21	0.001892	2.33	221.08	145.73	0.41
ELSA MONTE	385	30-6	261.48	98.95	103.10	102.36	103.54	0.004772	3.01	103.11	114.17	0.61
ELSA MONTE	384.9	200-6	437.91	99.00	104.30	102.78	104.66	0.001129	2.71	164.60	47.55	0.44
ELSA MONTE	384.9	100-6	365.45	99.00	103.80	102.49	104.14	0.001281	2.64	141.08	46.43	0.46
ELSA MONTE	384.9	30-6	261.48	99.00	103.05	101.95	103.36	0.001568	2.47	107.21	44.77	0.49
ELSA MONTE	384.5		Bridge									
ELSA MONTE	384.1	200-6	437.91	99.00	103.50		104.11	0.002530	3.49	127.61	45.78	0.63
ELSA MONTE	384.1	100-6	365.18	99.00	103.14		103.70	0.002723	3.33	111.20	44.97	0.64
ELSA MONTE	384.1	30-6	261.49	99.00	102.27		102.92	0.005149	3.57	73.25	39.22	0.83
ELSA MONTE	383	200-6	437.91	97.83	103.35		103.96	0.003953	3.53	136.42	58.30	0.56
ELSA MONTE	383	100-6	365.20	97.83	102.97		103.53	0.003995	3.34	114.52	57.76	0.56
ELSA MONTE	383	30-6	261.49	97.83	102.15		102.64	0.004073	3.08	84.77	28.87	0.55
ELSA MONTE	382.909*	200-6	437.89	97.14	102.60		103.19	0.003861	3.45	136.46	60.00	0.56
ELSA MONTE	382.909*	100-6	365.13	97.14	102.23		102.76	0.003852	3.24	115.28	49.96	0.55
ELSA MONTE	382.909*	30-6	261.47	97.14	101.41		101.87	0.003854	3.00	87.07	28.12	0.54
ELSA MONTE	382.818*	200-6	437.88	96.45	101.88		102.45	0.003770	3.36	137.18	59.53	0.56
ELSA MONTE	382.818*	100-6	365.22	96.45	101.51		102.02	0.003746	3.15	117.80	45.04	0.55
ELSA MONTE	382.818*	30-6	261.45	96.45	100.70		101.13	0.003655	2.92	89.48	29.36	0.53
ELSA MONTE	382.727*	200-6	437.87	95.75	101.18		101.72	0.003665	3.27	139.34	56.52	0.55
ELSA MONTE	382.727*	100-6	364.93	95.75	100.82		101.30	0.003636	3.07	119.06	36.63	0.54
ELSA MONTE	382.727*	30-6	261.44	95.75	100.01		100.43	0.003524	2.85	91.89	30.91	0.53
ELSA MONTE	382.636*	200-6	437.86	95.06	100.51		101.02	0.003551	3.17	142.65	54.92	0.54
ELSA MONTE	382.636*	100-6	365.14	95.06	100.15		100.60	0.003536	2.98	122.44	38.87	0.54
ELSA MONTE	382.636*	30-6	261.41	95.06	99.35		99.75	0.003428	2.77	94.27	32.62	0.52
ELSA MONTE	382.545*	200-6	437.84	94.36	99.84		100.32	0.003491	3.09	145.76	54.43	0.54
ELSA MONTE	382.545*	100-6	364.95	94.36	99.49		99.92	0.003453	2.90	125.66	41.15	0.53
ELSA MONTE	382.545*	30-6	261.38	94.36	98.71		99.09	0.003345	2.71	96.58	34.28	0.51
ELSA MONTE	382.454*	200-6	437.82	93.67	99.19		99.65	0.003403	3.01	149.73	59.48	0.53
ELSA MONTE	382.454*	100-6	364.89	93.67	98.86		99.27	0.003366	2.83	129.02	43.44	0.52
ELSA MONTE	382.454*	30-6	261.33	93.67	98.08		98.44	0.003291	2.65	98.60	35.87	0.51
ELSA MONTE	382.363*	200-6	437.81	92.97	98.57		99.00	0.003274	2.92	155.29	66.79	0.52
ELSA MONTE	382.363*	100-6	364.88	92.97	98.24		98.62	0.003307	2.76	132.21	45.86	0.52
ELSA MONTE	382.363*	30-6	261.26	92.97	97.45		97.80	0.003270	2.61	100.18	37.32	0.51

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

Reach	River Sta	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
ELSA MONTE	382.272*	200-6	437.74	92.28	97.92		98.35	0.003395	2.91	152.45	63.73	0.53
ELSA MONTE	382.272*	100-6	364.71	92.28	97.60		97.98	0.003314	2.71	134.42	48.91	0.52
ELSA MONTE	382.272*	30-6	261.18	92.28	96.84		97.17	0.003210	2.56	101.88	38.49	0.50
ELSA MONTE	382.181*	200-6	437.40	91.58	97.28		97.70	0.003401	2.86	156.69	71.21	0.53
ELSA MONTE	382.181*	100-6	363.35	91.58	96.95		97.32	0.003396	2.69	135.23	55.97	0.52
ELSA MONTE	382.181*	30-6	261.11	91.58	96.26		96.58	0.002933	2.50	104.60	38.37	0.48
ELSA MONTE	382.090*	200-6	436.88	90.89	96.77		97.16	0.002156	2.84	178.80	89.75	0.44
ELSA MONTE	382.090*	100-6	363.45	90.89	96.41		96.78	0.002211	2.71	143.28	68.48	0.44
ELSA MONTE	382.090*	30-6	260.99	90.89	95.82		96.10	0.002007	2.33	112.48	42.07	0.41
ELSA MONTE	382	200-6	436.60	90.19	96.53		96.80	0.001414	2.41	222.02	101.30	0.36
ELSA MONTE	382	100-6	364.87	90.19	96.15		96.41	0.001452	2.31	185.28	92.89	0.36
ELSA MONTE	382	30-6	260.89	90.19	95.56		95.77	0.001377	2.03	135.65	68.24	0.34
ELSA MONTE	381	200-6	436.05	90.42	96.21		96.63	0.002332	3.06	169.18	69.62	0.50
ELSA MONTE	381	100-6	364.78	90.42	95.80		96.22	0.002685	3.05	140.08	69.12	0.53
ELSA MONTE	381	30-6	260.68	90.42	95.11		95.57	0.003345	3.03	93.28	64.88	0.58
ELSA MONTE	380.9		Lat Struct									
ELSA MONTE	380	200-6	374.44	90.50	96.05	93.96	96.33	0.000656	2.56	177.94	41.59	0.36
ELSA MONTE	380	100-6	326.92	90.50	95.60	93.76	95.86	0.000701	2.49	159.21	41.59	0.36
ELSA MONTE	380	30-6	248.23	90.50	94.89	93.38	95.12	0.000746	2.31	129.67	41.59	0.36
ELSA MONTE	379.9		Inl Struct									
ELSA MONTE	379	200-6	374.44	87.53	96.03		96.17	0.000194	1.73	239.37	34.19	0.19
ELSA MONTE	379	100-6	326.93	87.53	95.58		95.70	0.000180	1.61	224.10	34.19	0.18
ELSA MONTE	379	30-6	248.19	87.53	94.87		94.96	0.000146	1.36	199.68	34.19	0.16
ELSA MONTE	378.9		Lat Struct									
ELSA MONTE	378	200-6	429.82	89.18	95.80		96.07	0.000897	2.31	186.21	36.90	0.33
ELSA MONTE	378	100-6	360.01	89.18	95.40		95.63	0.000795	2.10	171.79	36.25	0.31
ELSA MONTE	378	30-6	260.54	89.18	94.75		94.91	0.000637	1.75	148.50	35.26	0.27
ELSA MONTE	377.9		Lat Struct									
ELSA MONTE	377	200-6	407.45	88.82	95.66		95.95	0.001275	2.57	195.30	82.56	0.39
ELSA MONTE	377	100-6	352.76	88.82	95.11		95.46	0.001713	2.73	152.25	74.49	0.44
ELSA MONTE	377	30-6	260.24	88.82	94.32		94.71	0.002308	2.78	100.47	60.78	0.50
ELSA MONTE	376	200-6	377.82	88.04	95.62		95.88	0.000931	2.43	193.95	66.16	0.33
ELSA MONTE	376	100-6	327.91	88.04	95.09		95.38	0.001132	2.51	158.34	65.43	0.35
ELSA MONTE	376	30-6	250.86	88.04	94.25		94.57	0.001445	2.51	107.32	53.27	0.39
ELSA MONTE	375	200-6	343.58	88.05	95.69		95.87	0.000650	2.10	218.86	79.39	0.28
ELSA MONTE	375	100-6	299.48	88.05	95.14		95.36	0.000837	2.23	175.32	78.09	0.31
ELSA MONTE	375	30-6	239.96	88.05	94.22		94.53	0.001382	2.52	106.97	62.40	0.39
ELSA MONTE	374	200-6	413.80	87.97	95.48		95.75	0.000935	2.47	197.17	59.60	0.34
ELSA MONTE	374	100-6	346.74	87.97	94.97		95.24	0.000987	2.38	167.41	57.43	0.34
ELSA MONTE	374	30-6	257.89	87.97	94.15		94.40	0.001131	2.25	123.36	47.97	0.36
ELSA MONTE	373	200-6	435.70	88.61	95.10		95.76	0.002883	3.71	138.16	73.73	0.58
ELSA MONTE	373	100-6	359.45	88.61	94.62		95.27	0.003081	3.60	107.26	55.48	0.59
ELSA MONTE	373	30-6	260.21	88.61	93.80		94.37	0.003274	3.35	77.69	23.88	0.59
ELSA MONTE	372	200-6	435.71	88.41	95.24		95.70	0.002138	2.99	145.81	40.02	0.50
ELSA MONTE	372	100-6	359.19	88.41	94.81		95.20	0.001886	2.78	129.33	35.86	0.47
ELSA MONTE	372	30-6	260.22	88.41	94.03		94.35	0.001699	2.51	103.47	30.63	0.44
ELSA MONTE	371.9	200-6	435.70	88.35	95.04	93.01	95.69	0.001502	3.61	123.00	26.19	0.49
ELSA MONTE	371.9	100-6	358.73	88.35	94.69	92.57	95.20	0.001282	3.19	114.05	25.41	0.45
ELSA MONTE	371.9	30-6	260.21	88.35	93.96	91.92	94.34	0.001143	2.72	96.22	23.80	0.42
ELSA MONTE	371.5		Bridge									
ELSA MONTE	371.1	200-6	435.43	88.35	94.59		95.38	0.002018	3.95	111.61	25.20	0.57
ELSA MONTE	371.1	100-6	358.73	88.35	94.46		95.03	0.001503	3.35	108.29	24.90	0.49
ELSA MONTE	371.1	30-6	260.21	88.35	93.85		94.25	0.001248	2.79	93.58	23.55	0.43
ELSA MONTE	370	200-6	435.54	88.61	94.74		95.19	0.002718	3.30	160.37	59.57	0.54
ELSA MONTE	370	100-6	358.39	88.61	94.47		94.85	0.002500	3.05	144.08	59.19	0.51
ELSA MONTE	370	30-6	260.21	88.61	93.37	93.39	94.09	0.006108	3.95	79.82	57.65	0.77
ELSA MONTE	369.8		Lat Struct									
ELSA MONTE	369	200-6	433.49	88.05	94.68		95.00	0.001485	2.52	172.14	45.52	0.41
ELSA MONTE	369	100-6	354.59	88.05	94.43		94.68	0.001213	2.20	161.14	45.05	0.37
ELSA MONTE	369	30-6	260.21	88.05	93.30		93.58	0.002054	2.34	111.22	43.31	0.47
ELSA MONTE	368	200-6	435.52	87.75	94.74		94.93	0.000609	1.93	226.00	45.59	0.28
ELSA MONTE	368	100-6	347.22	87.75	94.52		94.65	0.000436	1.61	216.16	44.64	0.23
ELSA MONTE	368	30-6	260.21	87.75	93.37		93.50	0.000494	1.55	167.36	40.06	0.24
ELSA MONTE	367.9	200-6	435.51	87.70	94.34	92.78	94.91	0.001887	3.34	130.54	34.43	0.55
ELSA MONTE	367.9	100-6	361.15	87.70	94.15	92.39	94.58	0.001496	2.92	123.89	33.64	0.48
ELSA MONTE	367.9	30-6	260.20	87.70	93.05	91.78	93.48	0.001899	2.91	89.33	29.23	0.53
ELSA MONTE	367.5		Bridge									



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

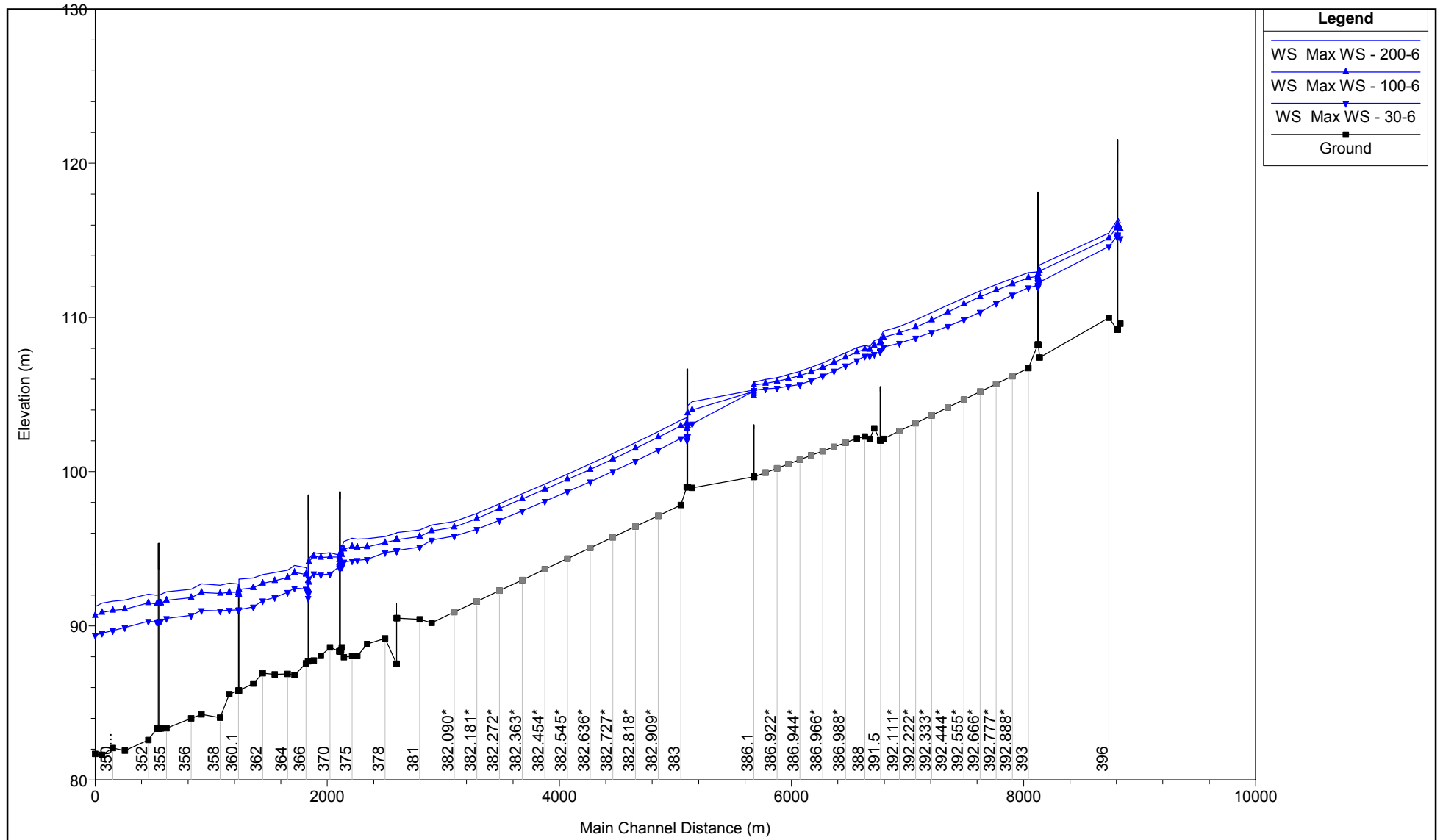
Reach	River Sta	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ELSA MONTE	367.1	200-6	435.14	87.70	93.35		94.34	0.004082	4.43	98.28	30.40	0.79
ELSA MONTE	367.1	100-6	381.92	87.70	92.92		93.93	0.004583	4.45	85.77	28.79	0.82
ELSA MONTE	367.1	30-6	260.20	87.70	92.07		92.95	0.005187	4.16	62.53	25.72	0.85
ELSA MONTE	366	200-6	435.25	87.57	93.78		94.21	0.001989	2.91	149.33	39.92	0.48
ELSA MONTE	366	100-6	381.99	87.57	93.33		93.76	0.002189	2.90	131.88	38.34	0.50
ELSA MONTE	366	30-6	260.19	87.57	92.39		92.75	0.002287	2.66	97.83	33.42	0.50
ELSA MONTE	365	200-6	435.30	86.80	93.91		94.06	0.000643	1.70	256.61	69.36	0.28
ELSA MONTE	365	100-6	382.44	86.80	93.45		93.60	0.000725	1.70	225.19	66.55	0.29
ELSA MONTE	365	30-6	260.19	86.80	92.46		92.59	0.000779	1.60	163.12	55.84	0.30
ELSA MONTE	364	200-6	435.22	86.88	93.61		94.00	0.001897	2.76	157.72	44.33	0.47
ELSA MONTE	364	100-6	382.50	86.88	93.14		93.53	0.002139	2.79	137.16	41.50	0.49
ELSA MONTE	364	30-6	260.19	86.88	92.18		92.51	0.002120	2.56	101.49	34.53	0.48
ELSA MONTE	363	200-6	435.21	86.85	93.46		93.82	0.001518	2.79	171.64	53.91	0.43
ELSA MONTE	363	100-6	382.82	86.85	92.93		93.32	0.001863	2.88	145.65	47.87	0.47
ELSA MONTE	363	30-6	260.19	86.85	91.85		92.26	0.002590	2.88	95.98	43.94	0.53
ELSA MONTE	362	200-6	435.20	86.93	93.31		93.65	0.001572	2.57	169.55	46.89	0.43
ELSA MONTE	362	100-6	382.75	86.93	92.75		93.11	0.001973	2.66	143.64	44.66	0.47
ELSA MONTE	362	30-6	260.18	86.93	91.62		91.99	0.002529	2.68	96.91	35.75	0.52
ELSA MONTE	361	200-6	435.17	86.25	93.10		93.50	0.002034	2.81	154.97	45.02	0.48
ELSA MONTE	361	100-6	370.27	86.25	92.47		92.90	0.002531	2.91	127.39	41.46	0.53
ELSA MONTE	361	30-6	260.13	86.25	91.24		91.74	0.003755	3.13	83.06	32.51	0.63
ELSA MONTE	360.9	200-6	435.15	85.80	93.02	90.24	93.30	0.001227	2.33	186.56	48.60	0.38
ELSA MONTE	360.9	100-6	369.99	85.80	92.36	89.79	92.65	0.001510	2.39	155.10	45.76	0.41
ELSA MONTE	360.9	30-6	260.08	85.80	91.04	89.06	91.37	0.002098	2.56	101.71	34.18	0.47
ELSA MONTE	360.5		Bridge									
ELSA MONTE	360.1	200-6	435.08	85.80	92.71		93.04	0.001555	2.54	171.55	47.12	0.42
ELSA MONTE	360.1	100-6	369.15	85.80	92.17		92.49	0.001761	2.52	146.72	44.84	0.44
ELSA MONTE	360.1	30-6	260.08	85.80	91.03		91.37	0.002115	2.57	101.36	34.09	0.48
ELSA MONTE	359.8		Lat Struct									
ELSA MONTE	359	200-6	429.93	85.57	92.76		92.95	0.000819	1.92	241.64	89.64	0.31
ELSA MONTE	359	100-6	369.19	85.57	92.18		92.38	0.001068	2.00	189.99	81.72	0.35
ELSA MONTE	359	30-6	260.07	85.57	91.02		91.23	0.001221	2.06	126.53	39.79	0.37
ELSA MONTE	358.9		Lat Struct									
ELSA MONTE	358	200-6	434.78	84.05	92.64		92.88	0.000779	2.16	201.80	43.38	0.31
ELSA MONTE	358	100-6	369.73	84.05	92.09		92.31	0.000790	2.05	179.96	39.07	0.31
ELSA MONTE	358	30-6	260.09	84.05	90.96		91.15	0.000875	1.90	136.87	37.05	0.32
ELSA MONTE	357	200-6	434.75	84.25	92.73		92.77	0.000121	0.95	472.96	98.83	0.13
ELSA MONTE	357	100-6	369.71	84.25	92.16		92.21	0.000125	0.90	418.65	95.77	0.13
ELSA MONTE	357	30-6	260.05	84.25	91.01		91.04	0.000143	0.83	312.41	83.99	0.13
ELSA MONTE	356	200-6	870.76	84.00	92.38		92.60	0.000603	2.12	432.55	92.42	0.29
ELSA MONTE	356	100-6	754.74	84.00	91.82		92.04	0.000662	2.07	381.42	89.49	0.30
ELSA MONTE	356	30-6	539.47	84.00	90.68		90.87	0.000814	1.97	280.61	86.35	0.32
ELSA MONTE	355	200-6	878.56	83.36	92.21		92.45	0.000739	2.19	400.54	80.96	0.31
ELSA MONTE	355	100-6	754.55	83.36	91.65		91.88	0.000783	2.12	355.95	79.38	0.32
ELSA MONTE	355	30-6	537.38	83.36	90.49		90.69	0.000881	2.01	267.34	70.71	0.33
ELSA MONTE	354	200-6	874.93	83.34	92.03		92.40	0.001215	2.70	324.22	69.61	0.40
ELSA MONTE	354	100-6	753.51	83.34	91.48		91.83	0.001270	2.63	286.59	66.18	0.40
ELSA MONTE	354	30-6	532.53	83.34	90.31		90.63	0.001445	2.49	213.72	58.99	0.42
ELSA MONTE	353.9	200-6	874.00	83.34	92.02	89.37	92.39	0.001225	2.71	322.99	69.50	0.40
ELSA MONTE	353.9	100-6	753.26	83.34	91.46	89.03	91.82	0.001285	2.64	285.36	66.07	0.41
ELSA MONTE	353.9	30-6	532.59	83.34	90.29	88.28	90.61	0.001469	2.51	212.47	58.86	0.42
ELSA MONTE	353.5		Bridge									
ELSA MONTE	353.1	200-6	868.21	83.34	91.99		92.36	0.001227	2.70	321.29	69.35	0.40
ELSA MONTE	353.1	100-6	752.85	83.34	91.43		91.79	0.001305	2.65	283.61	65.90	0.41
ELSA MONTE	353.1	30-6	532.51	83.34	90.26		90.59	0.001506	2.53	210.60	58.66	0.43
ELSA MONTE	353	200-6	868.14	83.34	91.98		92.35	0.001236	2.71	320.36	69.26	0.40
ELSA MONTE	353	100-6	752.48	83.34	91.42		91.78	0.001316	2.66	282.67	65.81	0.41
ELSA MONTE	353	30-6	532.49	83.34	90.24		90.57	0.001526	2.54	209.62	58.56	0.43
ELSA MONTE	352	200-6	875.19	82.60	92.05		92.29	0.000647	2.16	405.71	74.08	0.29
ELSA MONTE	352	100-6	753.38	82.60	91.49		91.71	0.000661	2.07	364.71	72.37	0.29
ELSA MONTE	352	30-6	532.73	82.60	90.31		90.49	0.000728	1.89	281.15	68.76	0.30
ELSA MONTE	351	200-6	869.00	81.90	91.67		92.14	0.001328	3.02	287.86	54.80	0.41
ELSA MONTE	351	100-6	740.76	81.90	91.07		91.50	0.001370	2.89	256.40	51.70	0.41
ELSA MONTE	351	30-6	532.61	81.90	89.89		90.26	0.001567	2.71	196.82	48.98	0.43
ELSA MONTE	350.66	200-6	869.23	82.08	91.59		91.99	0.001038	2.96	336.08	74.38	0.38
ELSA MONTE	350.66	100-6	740.50	82.08	90.99		91.38	0.001114	2.88	292.08	73.37	0.38
ELSA MONTE	350.66	30-6	531.25	82.08	89.69		90.11	0.001571	2.88	198.23	71.16	0.44

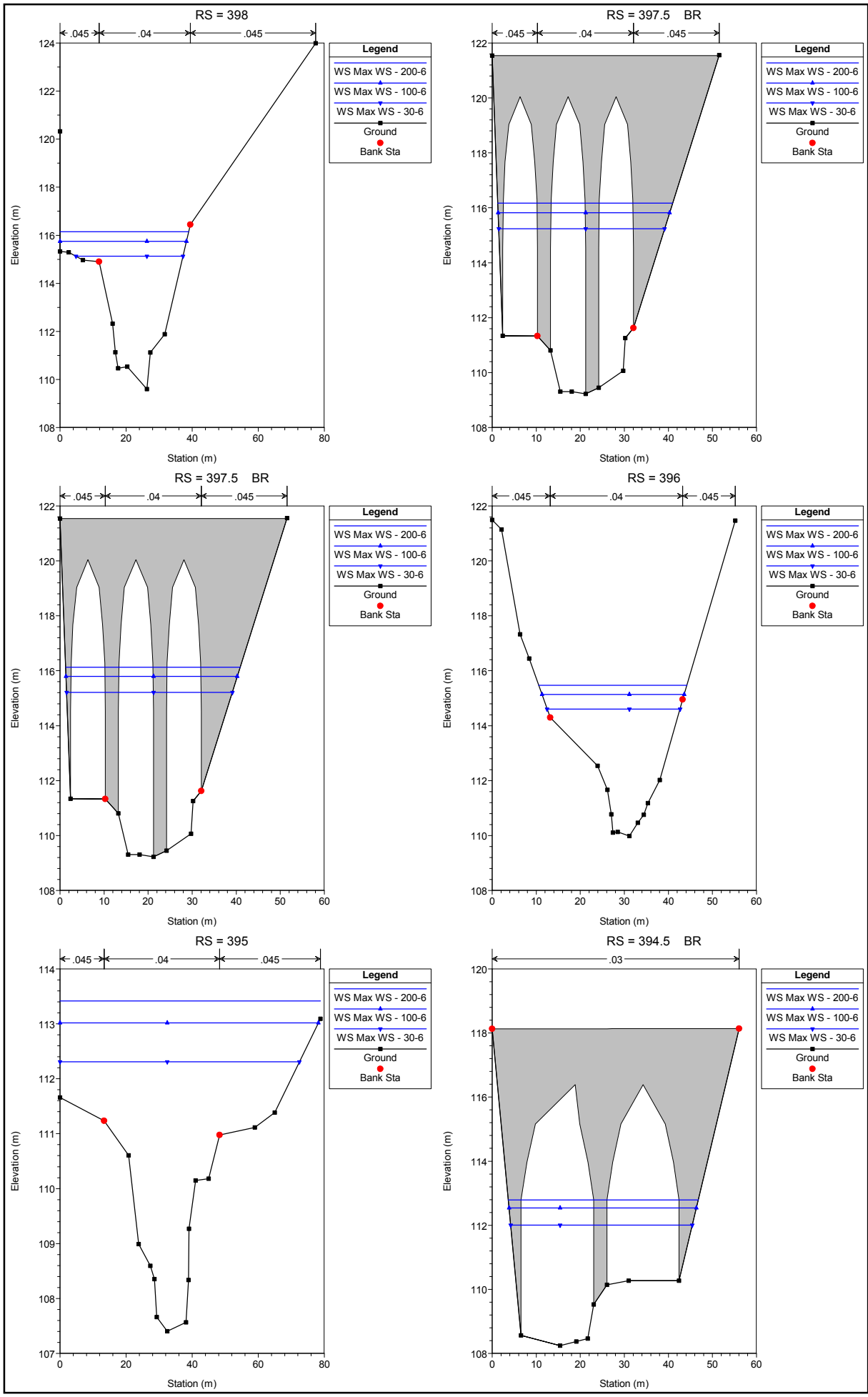
HEC-RAS River: ELSA Reach: ELSA MONTE Profile: Max WS (Continued)

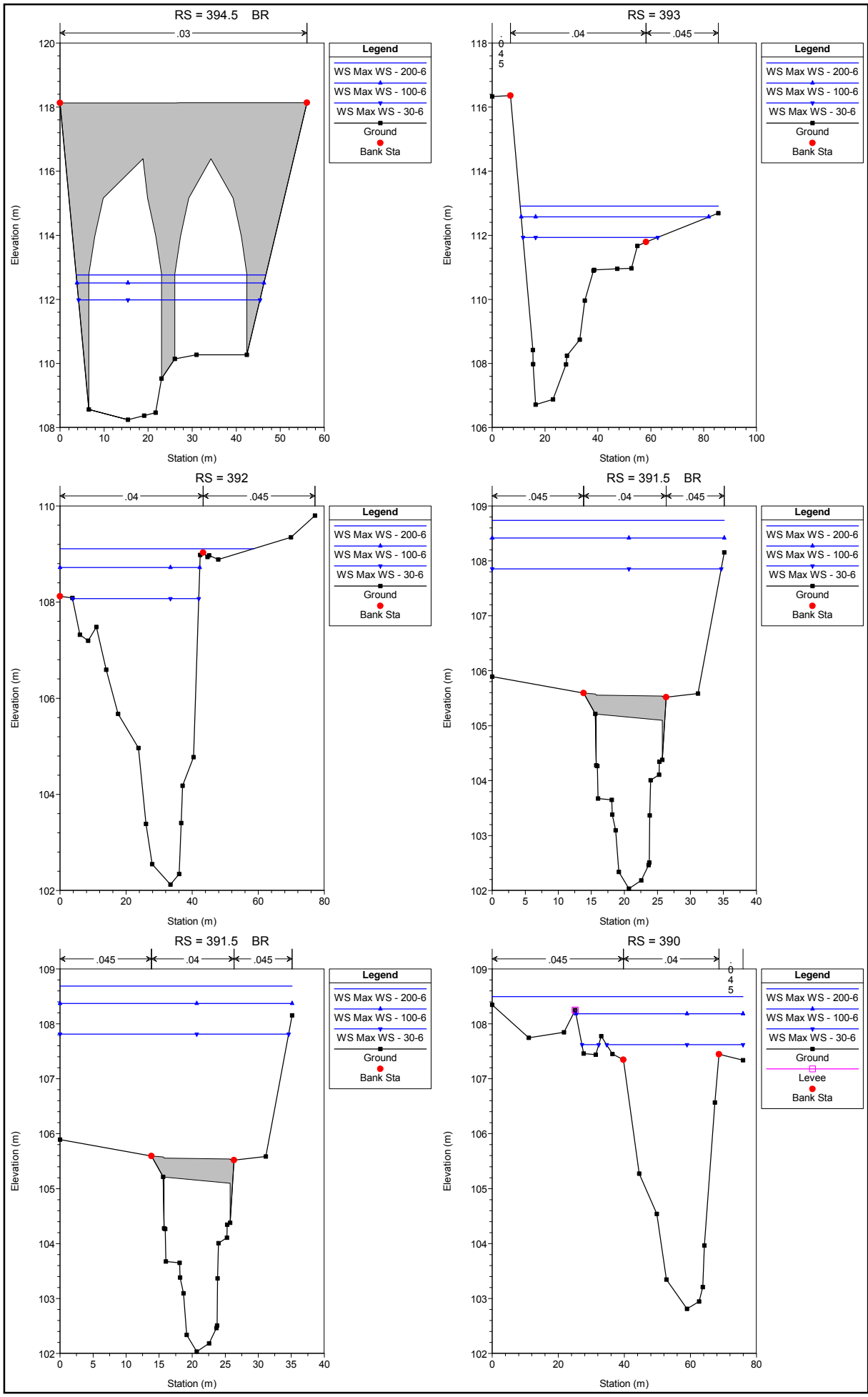
Reach	River Sta	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
ELSA MONTE	350.33	200-6	869.33	81.63	91.47		91.90	0.001096	3.08	328.99	72.46	0.37
ELSA MONTE	350.33	100-6	740.64	81.63	90.86		91.28	0.001166	2.99	285.56	71.54	0.38
ELSA MONTE	350.33	30-6	510.00	81.63	89.52		89.93	0.001462	2.86	190.91	69.52	0.41
ELSA MONTE	350	200-6	869.37	81.70	91.24	88.82	91.81	0.001508	3.39	273.99	57.83	0.44
ELSA MONTE	350	100-6	740.69	81.70	90.67	88.44	91.19	0.001574	3.23	237.50	51.66	0.45
ELSA MONTE	350	30-6	510.09	81.70	89.38	87.36	89.83	0.001923	2.98	172.66	46.41	0.47

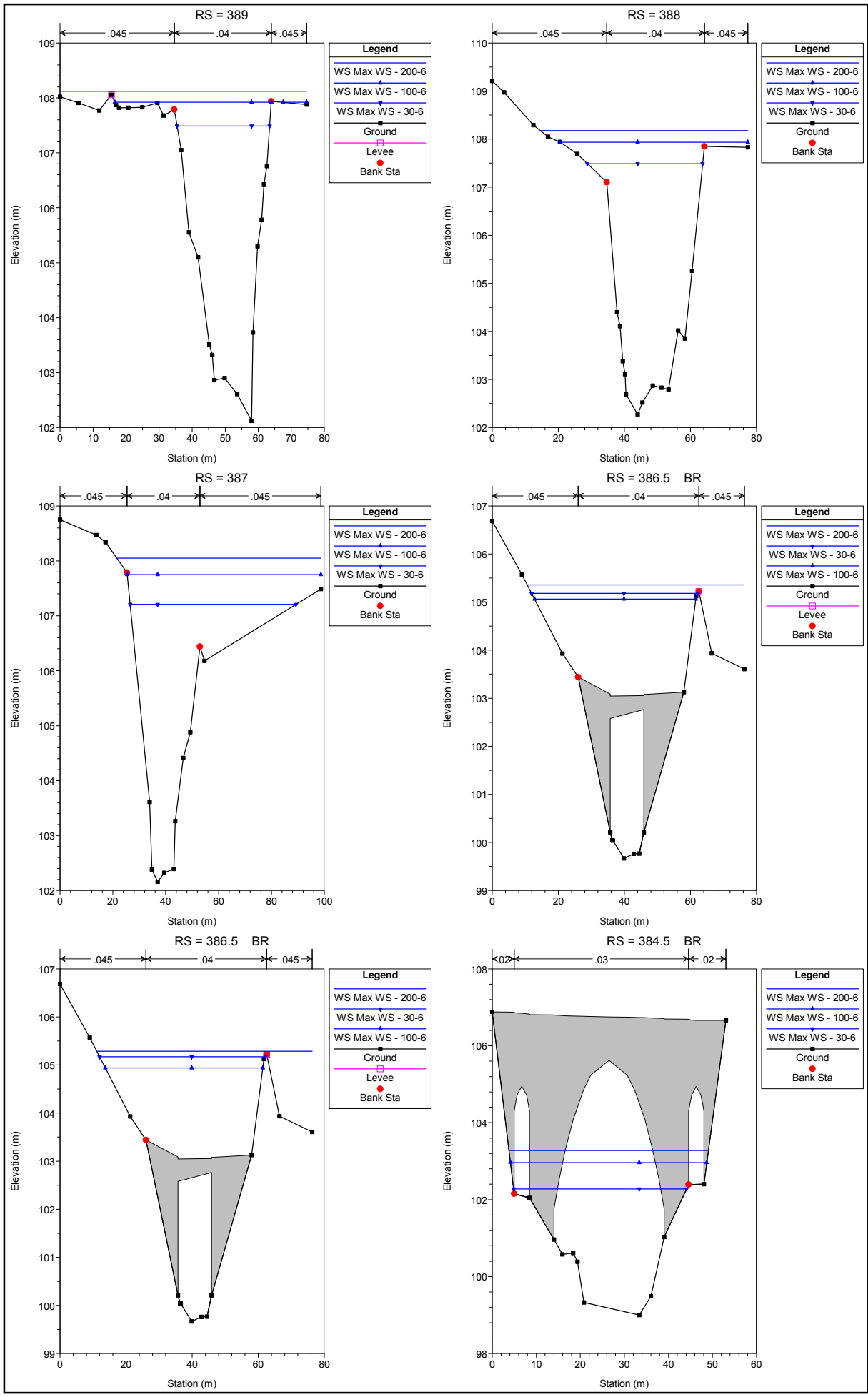
HEC-RAS Profile: Max WS

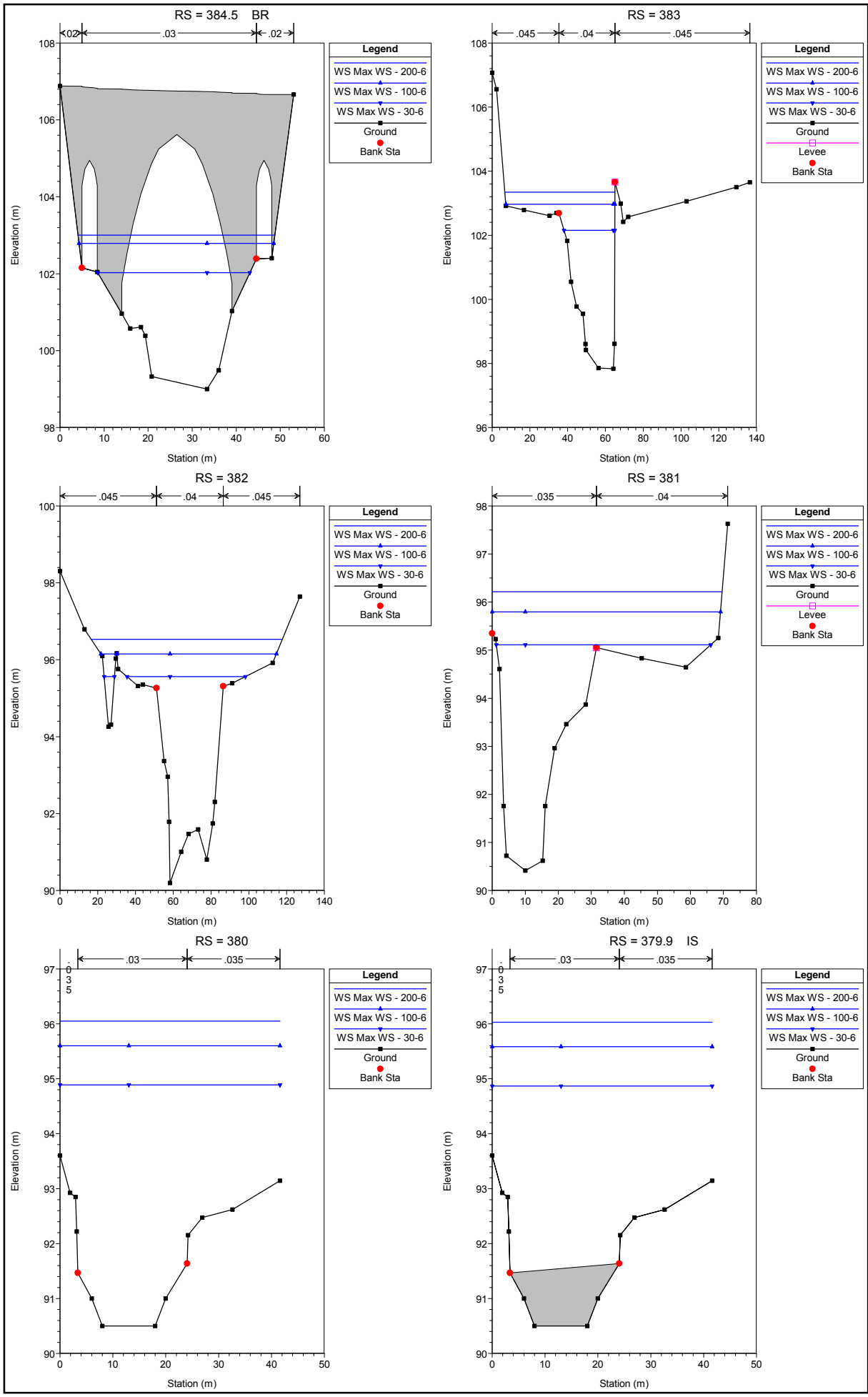
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
BOCCA D'ELSA	200-6	92.33	87.80	32.24	76.24	103.59
BOCCA D'ELSA	100-6	91.76	87.80	54.26	63.45	63.32
BOCCA D'ELSA	30-6	90.61	87.80	9.55	24.23	7.81
AREA SPORTIVA	200-6	95.63	89.90	8.33	22.78	40.99
AREA SPORTIVA	100-6	95.03	89.90	120.07	22.61	27.34
AREA SPORTIVA	30-6	94.20	89.90	4.08	18.47	8.88
GORA	200-6	94.70	88.40	21.61	15.52	21.26
GORA	100-6	94.30	88.40	85.08	14.05	15.30
GORA	30-6	93.33	88.40	5.64	7.65	5.22
MOLINO	200-6	96.10	90.00	8.63	17.02	28.59
MOLINO	100-6	95.65	90.00	47.04	14.54	21.48
MOLINO	30-6	94.96	90.00	13.09	11.13	12.16
FONTINO	200-6	92.69	86.90	26.62	66.27	69.04
FONTINO	100-6	92.12	86.90	12.67	57.11	33.64
FONTINO	30-6	86.90	86.90	0.00	0.01	0.00



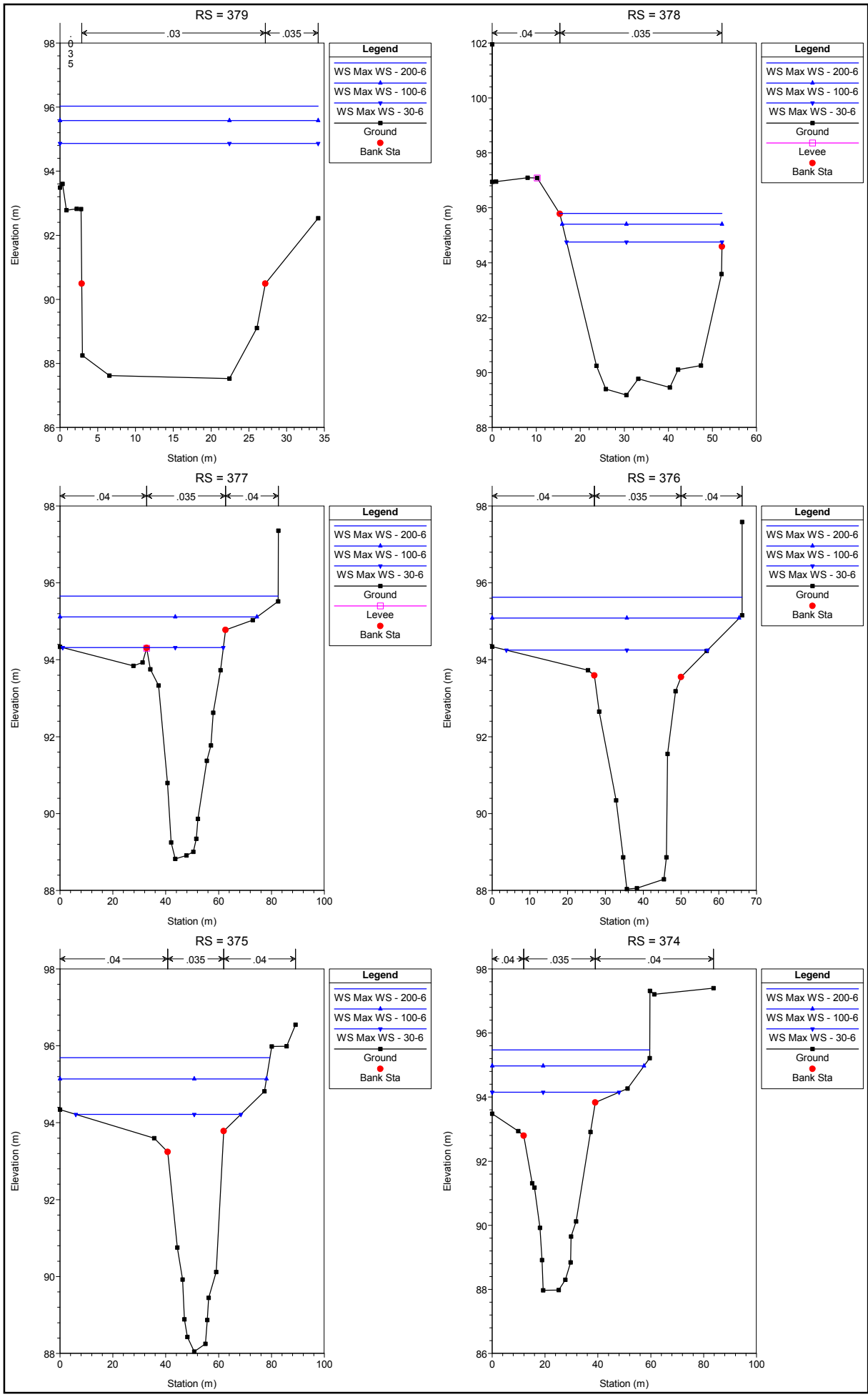


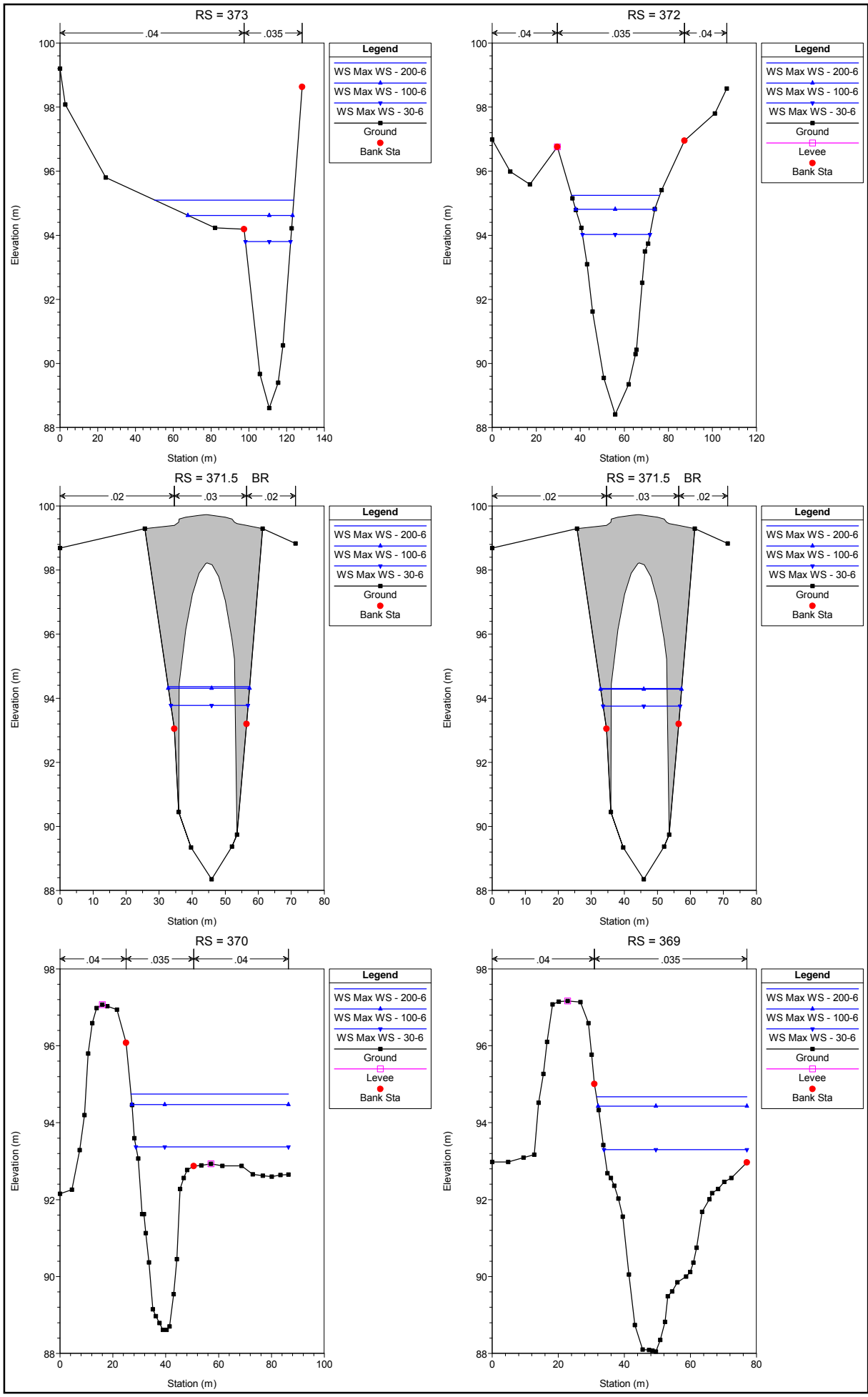


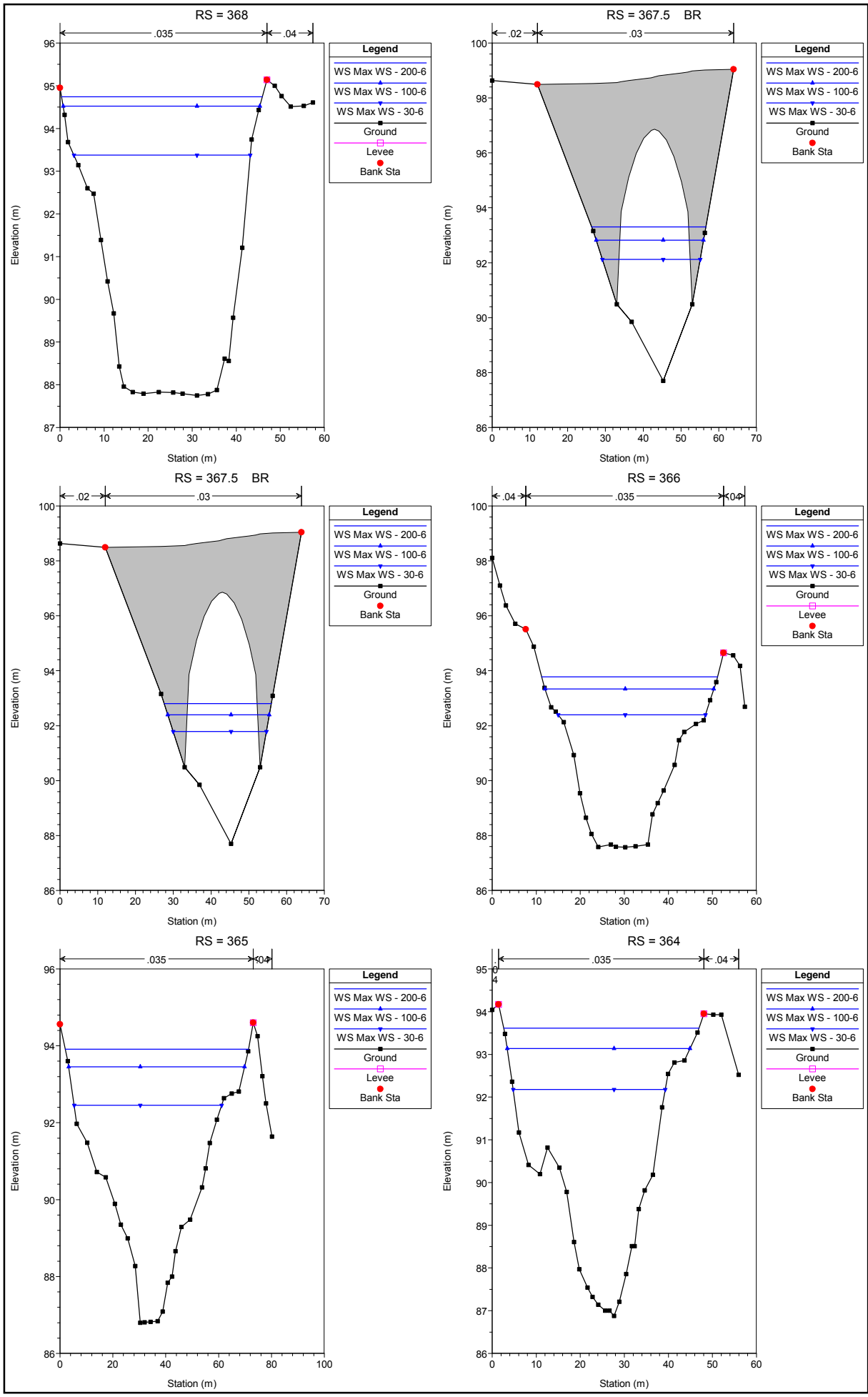


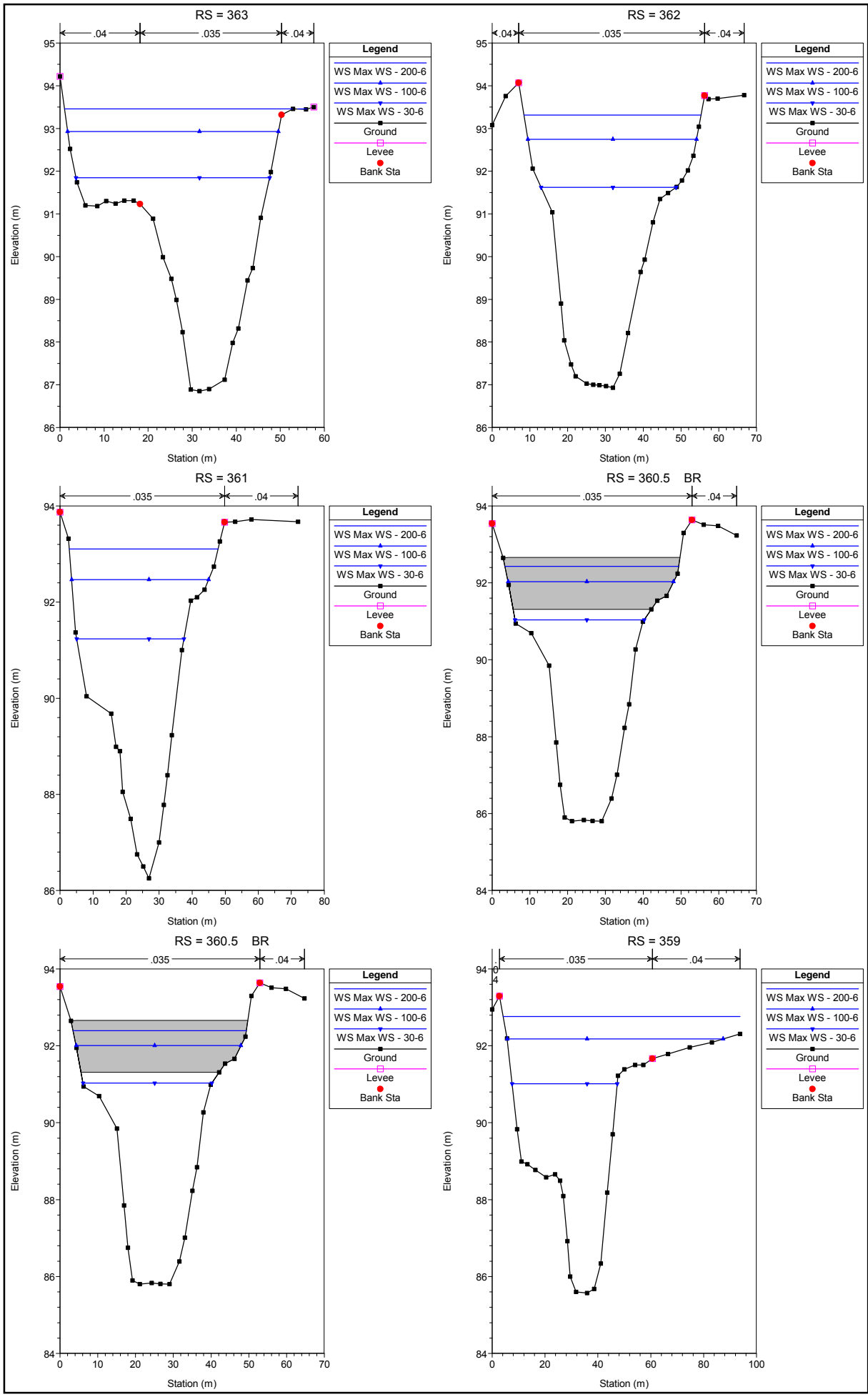


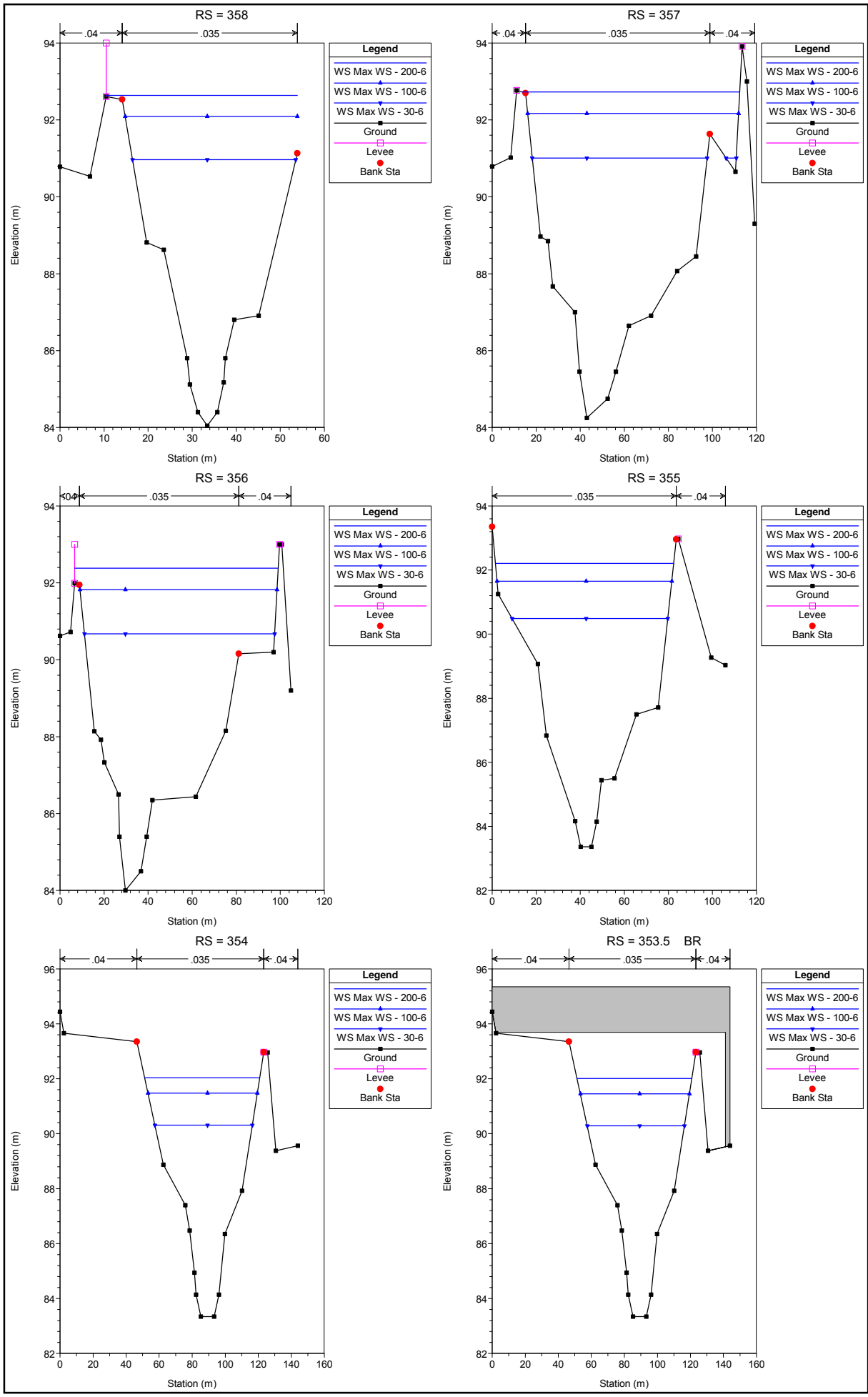


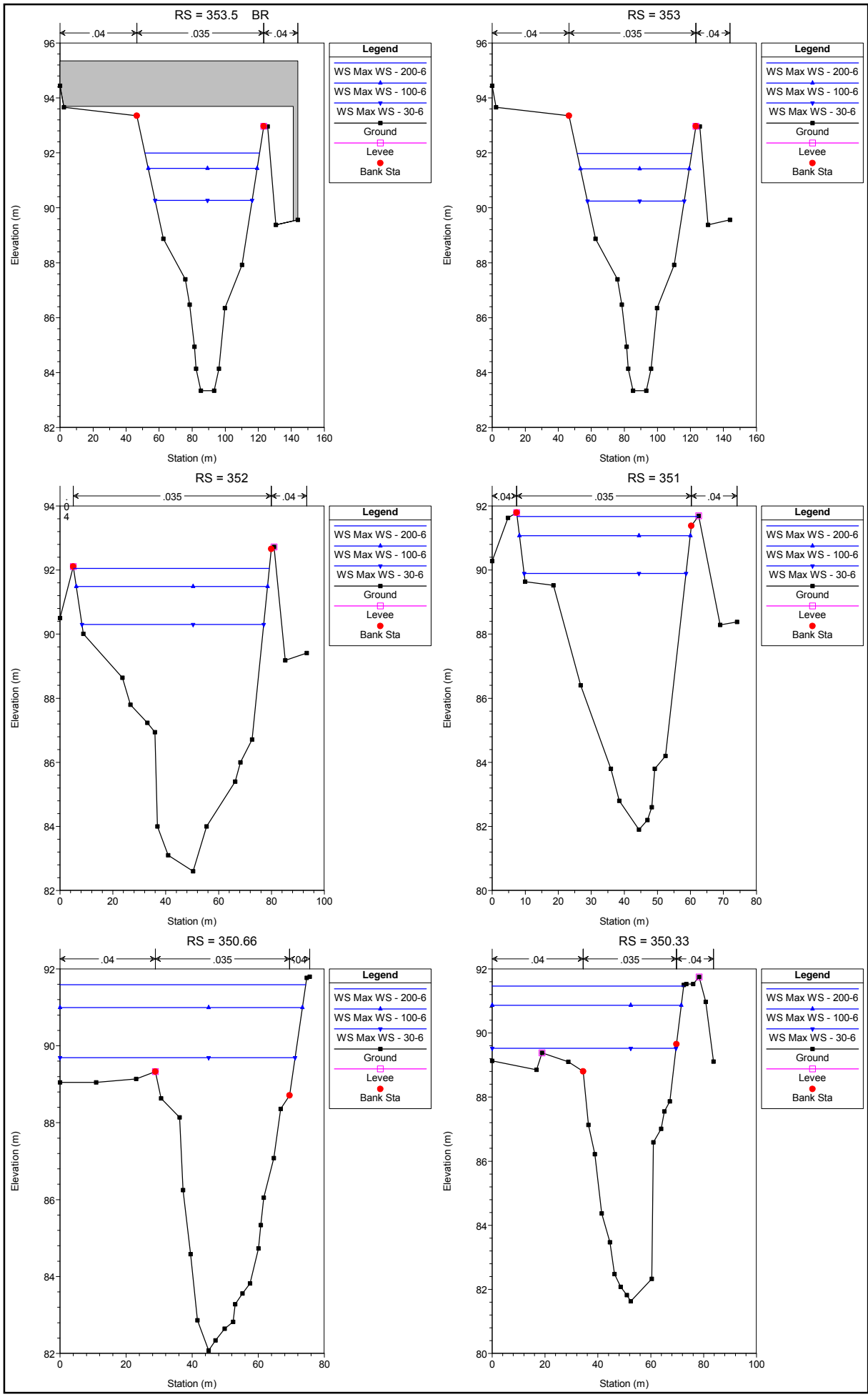


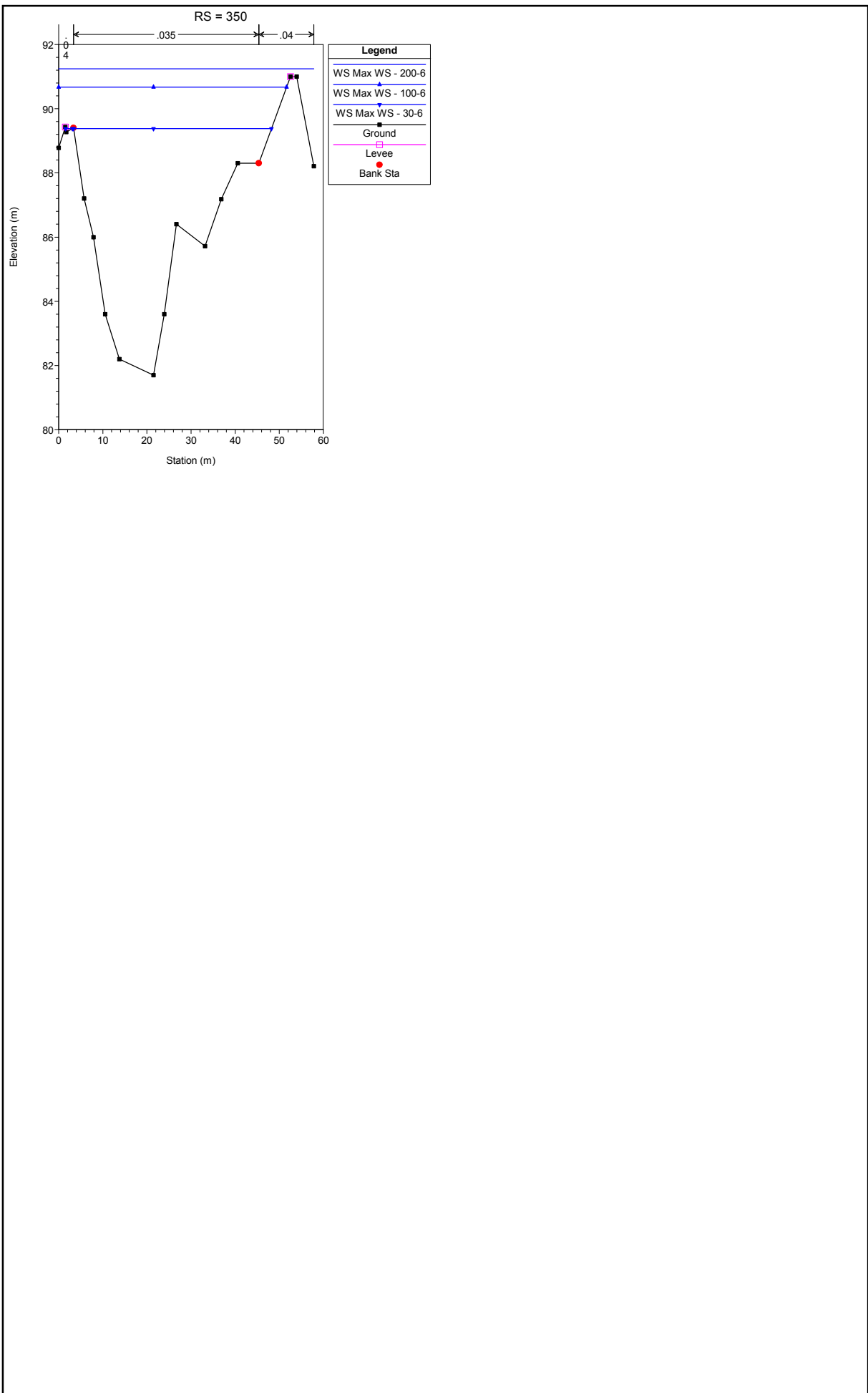












HEC-RAS River: STAGGIA Reach: POGGIBONSI Profile: Max WS

Reach	River Sta	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
POGGIBONSI	42	200-4	314.90	102.70	108.66		109.05	0.002303	2.79	118.08	41.10	0.45
POGGIBONSI	42	100-4	260.89	102.70	108.35		108.68	0.002139	2.54	105.44	40.43	0.43
POGGIBONSI	42	30-4	180.56	102.70	107.88		108.10	0.001656	2.05	89.09	32.54	0.37
POGGIBONSI	41	200-4	314.53	102.50	108.38		108.81	0.002658	2.91	111.63	40.49	0.48
POGGIBONSI	41	100-4	260.45	102.50	108.11		108.45	0.002376	2.62	101.67	33.79	0.45
POGGIBONSI	41	30-4	177.98	102.50	107.72		107.93	0.001630	2.03	88.92	32.22	0.37
POGGIBONSI	40.9	200-4	314.51	102.50	108.36		108.79	0.002702	2.93	110.93	40.45	0.48
POGGIBONSI	40.9	100-4	260.33	102.50	108.09		108.44	0.002408	2.63	101.20	33.65	0.45
POGGIBONSI	40.9	30-4	174.94	102.50	107.73		107.93	0.001554	1.99	89.33	32.24	0.36
POGGIBONSI	40.89		Lat Struct									
POGGIBONSI	40	200-4	223.65	102.27	108.42		108.77	0.001920	2.63	87.45	18.78	0.37
POGGIBONSI	40	100-4	166.18	102.27	108.26		108.47	0.001172	2.02	84.47	18.78	0.29
POGGIBONSI	40	30-4	163.08	102.27	107.46		107.75	0.001995	2.40	69.43	18.78	0.38
POGGIBONSI	39.88		Lat Struct									
POGGIBONSI	39	200-4	223.21	102.04	108.26	105.83	108.54	0.001772	2.34	95.23	22.14	0.36
POGGIBONSI	39	100-4	215.78	102.04	107.79	105.77	108.12	0.002341	2.55	84.67	22.14	0.42
POGGIBONSI	39	30-4	174.75	102.04	107.05	105.43	107.38	0.002792	2.55	68.59	20.92	0.45
POGGIBONSI	38.5		Bridge									
POGGIBONSI	38	200-4	223.08	102.04	107.78		108.13	0.002515	2.64	84.53	22.14	0.43
POGGIBONSI	38	100-4	215.59	102.04	107.33		107.76	0.003363	2.89	74.66	21.67	0.50
POGGIBONSI	38	30-4	174.75	102.04	106.79		107.18	0.003476	2.76	63.38	20.26	0.50
POGGIBONSI	37.89		Lat Struct									
POGGIBONSI	37.88		Lat Struct									
POGGIBONSI	37	200-4	195.93	101.88	107.71		107.85	0.000729	1.72	123.17	40.67	0.28
POGGIBONSI	37	100-4	181.72	101.88	107.26		107.43	0.000979	1.85	105.09	40.67	0.32
POGGIBONSI	37	30-4	155.28	101.88	106.55		106.78	0.001639	2.09	76.36	40.67	0.40
POGGIBONSI	36.58		Lat Struct									
POGGIBONSI	36	200-4	160.58	101.38	107.80		107.85	0.000186	0.98	175.85	49.06	0.15
POGGIBONSI	36	100-4	172.50	101.38	107.32		107.39	0.000338	1.22	151.92	49.06	0.20
POGGIBONSI	36	30-4	159.89	101.38	106.55		106.66	0.000687	1.49	114.33	48.91	0.28
POGGIBONSI	35.89		Lat Struct									
POGGIBONSI	35.88		Lat Struct									
POGGIBONSI	35	200-4	427.30	101.20	106.95	104.91	107.34	0.001603	2.77	154.21	37.74	0.44
POGGIBONSI	35	100-4	373.52	101.20	106.50	104.66	106.87	0.001696	2.72	137.57	36.36	0.45
POGGIBONSI	35	30-4	270.44	101.20	105.83	104.13	106.12	0.001528	2.37	113.98	34.30	0.42
POGGIBONSI	34.5		Bridge									
POGGIBONSI	34	200-4	427.13	101.20	105.86		106.56	0.003730	3.72	114.82	34.38	0.65
POGGIBONSI	34	100-4	370.22	101.20	105.46		106.14	0.004027	3.65	101.33	33.15	0.67
POGGIBONSI	34	30-4	290.74	101.20	104.99		105.57	0.004004	3.38	86.06	31.70	0.65
POGGIBONSI	33.88		Lat Struct									
POGGIBONSI	33	200-4	427.08	99.13	105.57		106.13	0.002486	3.53	132.36	40.23	0.53
POGGIBONSI	33	100-4	368.64	99.13	105.06		105.65	0.002978	3.57	112.61	38.44	0.57
POGGIBONSI	33	30-4	290.74	99.13	104.51		105.06	0.003390	3.45	91.70	36.45	0.59
POGGIBONSI	32	200-4	474.45	98.56	104.48		105.22	0.003743	4.02	127.61	44.33	0.65
POGGIBONSI	32	100-4	386.76	98.56	104.08		104.74	0.003813	3.77	110.68	40.52	0.65
POGGIBONSI	32	30-4	290.73	98.56	103.60		104.15	0.003738	3.47	91.32	39.02	0.63
POGGIBONSI	31	200-4	470.03	97.74	103.72		104.43	0.003116	3.97	132.91	43.96	0.62
POGGIBONSI	31	100-4	367.72	97.74	103.28		103.88	0.002998	3.61	113.74	42.82	0.59
POGGIBONSI	31	30-4	286.89	97.74	102.79		103.34	0.003233	3.42	93.01	41.54	0.60
POGGIBONSI	30.8333*	200-4	478.47	97.45	103.41		104.13	0.003199	4.00	133.09	43.93	0.62
POGGIBONSI	30.8333*	100-4	388.45	97.45	102.97		103.63	0.003272	3.77	114.35	42.70	0.62
POGGIBONSI	30.8333*	30-4	293.55	97.45	102.45		103.03	0.003424	3.49	92.38	41.14	0.62
POGGIBONSI	30.6666*	200-4	478.46	97.16	103.16		103.85	0.002990	3.89	136.07	44.03	0.60
POGGIBONSI	30.6666*	100-4	388.37	97.16	102.72		103.34	0.003050	3.65	117.02	42.68	0.60
POGGIBONSI	30.6666*	30-4	293.55	97.16	102.17		102.72	0.003218	3.38	94.34	40.81	0.60
POGGIBONSI	30.5*	200-4	478.44	96.87	102.94		103.59	0.002732	3.74	140.34	44.18	0.58
POGGIBONSI	30.5*	100-4	388.34	96.87	102.49		103.07	0.002769	3.50	120.99	42.74	0.57
POGGIBONSI	30.5*	30-4	293.55	96.87	101.94		102.44	0.002910	3.23	97.77	40.55	0.57
POGGIBONSI	30.3333*	200-4	478.43	96.57	102.75		103.35	0.002447	3.58	145.88	44.42	0.55
POGGIBONSI	30.3333*	100-4	388.29	96.57	102.30		102.83	0.002444	3.33	126.43	42.90	0.54
POGGIBONSI	30.3333*	30-4	293.55	96.57	101.74		102.19	0.002536	3.06	102.76	40.43	0.53
POGGIBONSI	30.1666*	200-4	478.43	96.28	102.59		103.14	0.002154	3.40	152.67	44.75	0.51
POGGIBONSI	30.1666*	100-4	388.24	96.28	102.15		102.62	0.002111	3.14	133.19	43.18	0.50
POGGIBONSI	30.1666*	30-4	293.44	96.28	101.58		101.97	0.002140	2.86	109.23	40.43	0.49
POGGIBONSI	30	200-4	478.43	95.99	102.47	100.98	102.95	0.001832	3.19	161.00	45.22	0.47



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

Reach	River Sta	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
POGGIBONSI	30	100-4	388.25	95.99	102.03	100.60	102.44	0.001766	2.93	141.45	43.60	0.46
POGGIBONSI	30	30-4	273.59	95.99	101.49	99.95	101.77	0.001472	2.43	118.42	40.76	0.41
POGGIBONSI	29.5		Bridge									
POGGIBONSI	29	200-4	478.42	95.99	102.31		102.84	0.002094	3.33	153.85	44.63	0.50
POGGIBONSI	29	100-4	388.25	95.99	101.89		102.34	0.002012	3.05	135.31	43.08	0.48
POGGIBONSI	29	30-4	273.59	95.99	101.38		101.69	0.001640	2.52	114.16	40.32	0.43
POGGIBONSI	28.8*	200-4	478.47	95.66	102.09		102.64	0.002182	3.44	150.41	44.74	0.52
POGGIBONSI	28.8*	100-4	388.18	95.66	101.68		102.15	0.002077	3.15	132.42	43.06	0.50
POGGIBONSI	28.8*	30-4	274.98	95.66	101.15		101.49	0.001754	2.65	110.49	40.65	0.45
POGGIBONSI	28.6*	200-4	478.52	95.32	101.85		102.44	0.002281	3.56	147.31	44.88	0.53
POGGIBONSI	28.6*	100-4	388.18	95.32	101.46		101.96	0.002152	3.26	129.93	43.43	0.51
POGGIBONSI	28.6*	30-4	269.15	95.32	101.02		101.35	0.001609	2.62	111.16	41.41	0.43
POGGIBONSI	28.4*	200-4	478.57	94.99	101.62		102.23	0.002382	3.67	144.80	45.00	0.54
POGGIBONSI	28.4*	100-4	388.22	94.99	101.24		101.76	0.002223	3.36	128.13	43.67	0.52
POGGIBONSI	28.4*	30-4	275.17	94.99	100.76		101.13	0.001828	2.81	107.54	41.89	0.46
POGGIBONSI	28.2*	200-4	478.62	94.65	101.38		102.01	0.002485	3.77	142.95	45.16	0.55
POGGIBONSI	28.2*	100-4	388.19	94.65	101.03		101.55	0.002274	3.43	127.34	43.96	0.52
POGGIBONSI	28.2*	30-4	264.71	94.65	100.67		100.99	0.001523	2.65	111.85	42.64	0.42
POGGIBONSI	28	200-4	478.65	94.32	101.14	100.32	101.77	0.002594	3.84	141.92	45.47	0.55
POGGIBONSI	28	100-4	388.21	94.32	100.82	99.97	101.34	0.002304	3.46	127.74	44.32	0.52
POGGIBONSI	28	30-4	282.16	94.32	100.31	99.46	100.72	0.002092	3.05	105.39	42.42	0.48
POGGIBONSI	27.5		Bridge									
POGGIBONSI	27	200-4	478.16	94.24	100.64		101.54	0.004469	4.50	119.59	45.23	0.72
POGGIBONSI	27	100-4	388.21	94.24	100.20		101.06	0.004859	4.34	100.21	43.50	0.73
POGGIBONSI	27	30-4	299.52	94.24	99.73		100.54	0.005296	4.13	80.32	41.64	0.75
POGGIBONSI	26	200-4	477.51	93.74	100.23		101.08	0.003644	4.38	124.91	44.53	0.65
POGGIBONSI	26	100-4	379.00	93.74	99.71		100.52	0.003958	4.22	102.25	42.53	0.66
POGGIBONSI	26	30-4	293.23	93.74	99.27		99.99	0.003978	3.92	83.63	40.90	0.65
POGGIBONSI	25	200-4	479.32	93.32	100.30	99.69	101.03	0.003295	4.04	132.51	45.48	0.62
POGGIBONSI	25	100-4	388.37	93.32	99.77	99.34	100.49	0.003784	3.98	109.00	43.59	0.65
POGGIBONSI	25	30-4	296.97	93.32	99.27	98.91	99.93	0.004024	3.74	87.88	41.77	0.65
POGGIBONSI	24.5		Bridge									
POGGIBONSI	24	200-4	479.32	93.31	100.36		101.01	0.002612	3.81	141.04	44.40	0.55
POGGIBONSI	24	100-4	388.37	93.31	99.88		100.47	0.002701	3.62	120.04	42.48	0.55
POGGIBONSI	24	30-4	296.95	93.31	99.35		99.87	0.002759	3.35	98.07	40.48	0.55
POGGIBONSI	23	200-4	479.31	93.85	100.24		100.99	0.003029	4.15	133.95	45.87	0.59
POGGIBONSI	23	100-4	388.36	93.85	99.74		100.45	0.003188	3.97	112.21	42.67	0.60
POGGIBONSI	23	30-4	294.73	93.85	99.20		99.84	0.003301	3.71	89.69	40.17	0.60
POGGIBONSI	22	200-4	479.34	93.78	99.89	98.86	100.52	0.002609	3.59	141.66	44.13	0.56
POGGIBONSI	22	100-4	388.44	93.78	99.37	98.42	99.95	0.002836	3.42	119.28	42.13	0.58
POGGIBONSI	22	30-4	294.78	93.78	98.81	97.89	99.31	0.003069	3.18	96.03	39.94	0.58
POGGIBONSI	21.5		Bridge									
POGGIBONSI	21	200-4	479.34	93.38	99.91		100.41	0.001874	3.28	157.65	44.70	0.49
POGGIBONSI	21	100-4	388.44	93.38	99.44		99.88	0.001864	3.04	136.95	43.20	0.48
POGGIBONSI	21	30-4	294.78	93.38	98.91		99.27	0.001812	2.74	114.54	41.51	0.46
POGGIBONSI	20	200-4	479.35	93.38	99.74	98.48	100.20	0.001799	3.16	165.97	51.22	0.48
POGGIBONSI	20	100-4	388.39	93.38	99.24	98.05	99.66	0.001903	3.00	140.73	49.39	0.48
POGGIBONSI	20	30-4	295.19	93.38	98.68	97.38	99.05	0.002011	2.79	113.69	47.35	0.48
POGGIBONSI	19.95		Bridge									
POGGIBONSI	19.9	200-4	479.34	93.38	99.51		100.05	0.002214	3.38	154.52	50.40	0.52
POGGIBONSI	19.9	100-4	388.34	93.38	99.03		99.52	0.002353	3.22	130.65	48.64	0.53
POGGIBONSI	19.9	30-4	294.85	93.38	98.48		98.93	0.002518	3.00	104.67	46.65	0.53
POGGIBONSI	19	200-4	479.26	92.80	99.13		100.03	0.003788	4.39	120.54	40.27	0.66
POGGIBONSI	19	100-4	383.67	92.80	98.69		99.48	0.003748	4.08	103.12	38.80	0.65
POGGIBONSI	19	30-4	294.46	92.80	98.20		98.89	0.003774	3.75	84.46	37.15	0.64
POGGIBONSI	18.82*	200-4	479.17	92.70	98.95		99.75	0.003211	4.19	127.75	41.46	0.62
POGGIBONSI	18.82*	100-4	383.62	92.70	98.51		99.21	0.003143	3.88	109.76	40.00	0.60
POGGIBONSI	18.82*	30-4	292.52	92.70	98.00		98.61	0.003139	3.56	89.84	38.32	0.59
POGGIBONSI	18.64*	200-4	479.03	92.60	98.83		99.52	0.002639	3.93	137.24	42.82	0.57
POGGIBONSI	18.64*	100-4	383.50	92.60	98.39		98.99	0.002548	3.63	118.61	41.38	0.55
POGGIBONSI	18.64*	30-4	293.02	92.60	97.87		98.39	0.002519	3.33	97.81	39.71	0.53
POGGIBONSI	18.46*	200-4	478.96	92.50	98.74		99.33	0.002146	3.66	148.37	44.29	0.51
POGGIBONSI	18.46*	100-4	383.41	92.50	98.30		98.80	0.002038	3.37	129.11	42.87	0.49
POGGIBONSI	18.46*	30-4	293.49	92.50	97.78		98.22	0.001983	3.08	107.50	41.23	0.48
POGGIBONSI	18.28*	200-4	478.91	92.40	98.68		99.17	0.001746	3.40	160.69	45.80	0.46
POGGIBONSI	18.28*	100-4	383.39	92.40	98.24		98.66	0.001631	3.11	140.81	44.42	0.44
POGGIBONSI	18.28*	30-4	293.60	92.40	97.72		98.08	0.001557	2.82	118.38	42.81	0.42

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

Reach	River Sta	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
POGGIBONSI	18.18		Lat Struct									
POGGIBONSI	18.1	200-4	477.76	92.50	98.61		99.05	0.001528	3.20	171.13	48.31	0.43
POGGIBONSI	18.1	100-4	383.26	92.50	98.17		98.54	0.001401	2.90	150.59	45.89	0.41
POGGIBONSI	18.1	30-4	293.81	92.50	97.66		97.96	0.001327	2.64	127.47	44.34	0.39
POGGIBONSI	18	200-4	483.47	92.80	98.53	97.28	99.01	0.001786	3.36	163.88	47.49	0.46
POGGIBONSI	18	100-4	392.96	92.80	98.07	96.94	98.49	0.001750	3.14	142.72	45.63	0.45
POGGIBONSI	18	30-4	301.87	92.80	97.56	96.53	97.92	0.001703	2.88	119.92	44.07	0.44
POGGIBONSI	17.5		Inf Struct									
POGGIBONSI	17	200-4	482.50	90.50	97.94		98.29	0.001035	2.77	192.51	47.05	0.36
POGGIBONSI	17	100-4	391.85	90.50	97.16		97.51	0.001204	2.73	156.97	44.37	0.38
POGGIBONSI	17	30-4	299.44	90.50	96.34		96.68	0.001389	2.62	121.77	41.55	0.39
POGGIBONSI	16.88		Lat Struct									
POGGIBONSI	16	200-4	475.91	91.18	97.81		98.17	0.001173	2.75	183.15	43.69	0.38
POGGIBONSI	16	100-4	391.62	91.18	96.98		97.36	0.001464	2.80	147.71	41.65	0.42
POGGIBONSI	16	30-4	299.36	91.18	96.12		96.50	0.001792	2.76	112.92	39.19	0.46
POGGIBONSI	15	200-4	475.22	90.58	97.69		98.08	0.001316	2.83	181.92	54.93	0.41
POGGIBONSI	15	100-4	391.36	90.58	96.81		97.23	0.001825	2.92	139.54	45.25	0.46
POGGIBONSI	15	30-4	299.28	90.58	95.87		96.32	0.002544	2.98	101.60	37.21	0.53
POGGIBONSI	14.89		Lat Struct									
POGGIBONSI	14.88		Lat Struct									
POGGIBONSI	14	200-4	496.78	90.68	97.76		97.95	0.000593	1.98	269.02	79.68	0.28
POGGIBONSI	14	100-4	399.98	90.68	96.89		97.09	0.000779	2.00	205.78	65.31	0.31
POGGIBONSI	14	30-4	299.30	90.68	95.97		96.16	0.000975	1.94	154.10	45.93	0.34
POGGIBONSI	13	200-4	478.99	89.78	97.70	94.72	97.90	0.000547	2.14	251.41	56.49	0.26
POGGIBONSI	13	100-4	391.48	89.78	96.82	94.26	97.03	0.000691	2.19	201.84	56.49	0.29
POGGIBONSI	13	30-4	299.32	89.78	95.86	93.81	96.07	0.000871	2.18	152.35	47.00	0.31
POGGIBONSI	12.5		Bridge									
POGGIBONSI	12.4	200-4	477.97	89.78	96.75		97.08	0.001090	2.73	197.81	56.49	0.36
POGGIBONSI	12.4	100-4	391.49	89.78	96.16		96.46	0.001149	2.61	166.37	47.52	0.36
POGGIBONSI	12.4	30-4	299.30	89.78	95.42		95.71	0.001334	2.53	131.63	46.21	0.38
POGGIBONSI	12	200-4	477.91	89.97	96.74		97.06	0.000919	2.65	197.46	45.37	0.36
POGGIBONSI	12	100-4	391.49	89.97	96.17		96.45	0.000945	2.49	171.36	44.83	0.36
POGGIBONSI	12	30-4	299.30	89.97	95.44		95.69	0.001025	2.34	139.22	43.63	0.36
POGGIBONSI	11.89		Lat Struct									
POGGIBONSI	11	200-4	476.47	89.89	96.38		97.01	0.002329	3.59	137.67	31.93	0.51
POGGIBONSI	11	100-4	391.48	89.89	95.84		96.39	0.002313	3.36	120.65	31.10	0.51
POGGIBONSI	11	30-4	299.25	89.89	95.15		95.63	0.002369	3.09	99.76	30.06	0.51
POGGIBONSI	10	200-4	657.34	89.30	96.23	94.09	96.60	0.001147	2.77	250.94	62.48	0.40
POGGIBONSI	10	100-4	548.79	89.30	95.67	93.77	96.01	0.001227	2.64	216.57	57.35	0.40
POGGIBONSI	10	30-4	417.21	89.30	95.01	93.34	95.30	0.001258	2.40	179.68	54.56	0.40
POGGIBONSI	9.5		Bridge									
POGGIBONSI	9.1	200-4	657.34	89.30	95.86		96.31	0.001525	3.03	227.88	61.51	0.45
POGGIBONSI	9.1	100-4	548.78	89.30	95.42		95.81	0.001511	2.82	202.27	56.15	0.44
POGGIBONSI	9.1	30-4	417.21	89.30	94.82		95.14	0.001516	2.54	169.15	53.80	0.43
POGGIBONSI	9	200-4	657.34	89.90	95.86		96.30	0.001378	3.03	226.49	52.88	0.44
POGGIBONSI	9	100-4	548.78	89.90	95.42		95.80	0.001332	2.79	203.72	51.62	0.42
POGGIBONSI	9	30-4	417.21	89.90	94.83		95.13	0.001264	2.48	173.69	49.90	0.40
POGGIBONSI	8.89		Lat Struct									
POGGIBONSI	8	200-4	657.18	89.30	95.47		96.16	0.002906	3.74	182.39	56.20	0.60
POGGIBONSI	8	100-4	548.82	89.30	95.01		95.65	0.003159	3.59	157.31	53.56	0.62
POGGIBONSI	8	30-4	417.21	89.30	94.39		94.97	0.003666	3.39	125.13	49.97	0.64
POGGIBONSI	7	200-4	657.25	88.20	95.05		95.61	0.001741	3.35	204.45	50.96	0.47
POGGIBONSI	7	100-4	548.97	88.20	94.59		95.08	0.001685	3.10	182.14	47.57	0.45
POGGIBONSI	7	30-4	417.24	88.20	93.95		94.34	0.001610	2.76	152.85	43.85	0.43
POGGIBONSI	6	200-4	657.19	87.45	94.65		95.36	0.002620	3.74	177.08	44.45	0.57
POGGIBONSI	6	100-4	549.05	87.45	94.23		94.84	0.002489	3.46	159.15	41.21	0.55
POGGIBONSI	6	30-4	417.25	87.45	93.64		94.12	0.002293	3.07	135.97	37.45	0.51
POGGIBONSI	5	200-4	657.19	86.80	93.79		95.02	0.005208	4.99	136.78	40.60	0.79
POGGIBONSI	5	100-4	549.13	86.80	93.39		94.48	0.005289	4.69	120.80	38.54	0.78
POGGIBONSI	5	30-4	417.26	86.80	92.82		93.74	0.005370	4.30	99.59	35.83	0.77
POGGIBONSI	4.89		Lat Struct									
POGGIBONSI	4	200-4	589.97	85.89	92.55		93.54	0.003875	4.47	137.86	39.73	0.68
POGGIBONSI	4	100-4	525.04	85.89	92.05		93.10	0.004795	4.58	117.86	39.26	0.74
POGGIBONSI	4	30-4	405.41	85.89	91.35		92.32	0.005538	4.36	93.54	32.36	0.77
POGGIBONSI	3	200-4	597.48	85.50	92.56		92.82	0.000916	2.36	269.07	70.96	0.34

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

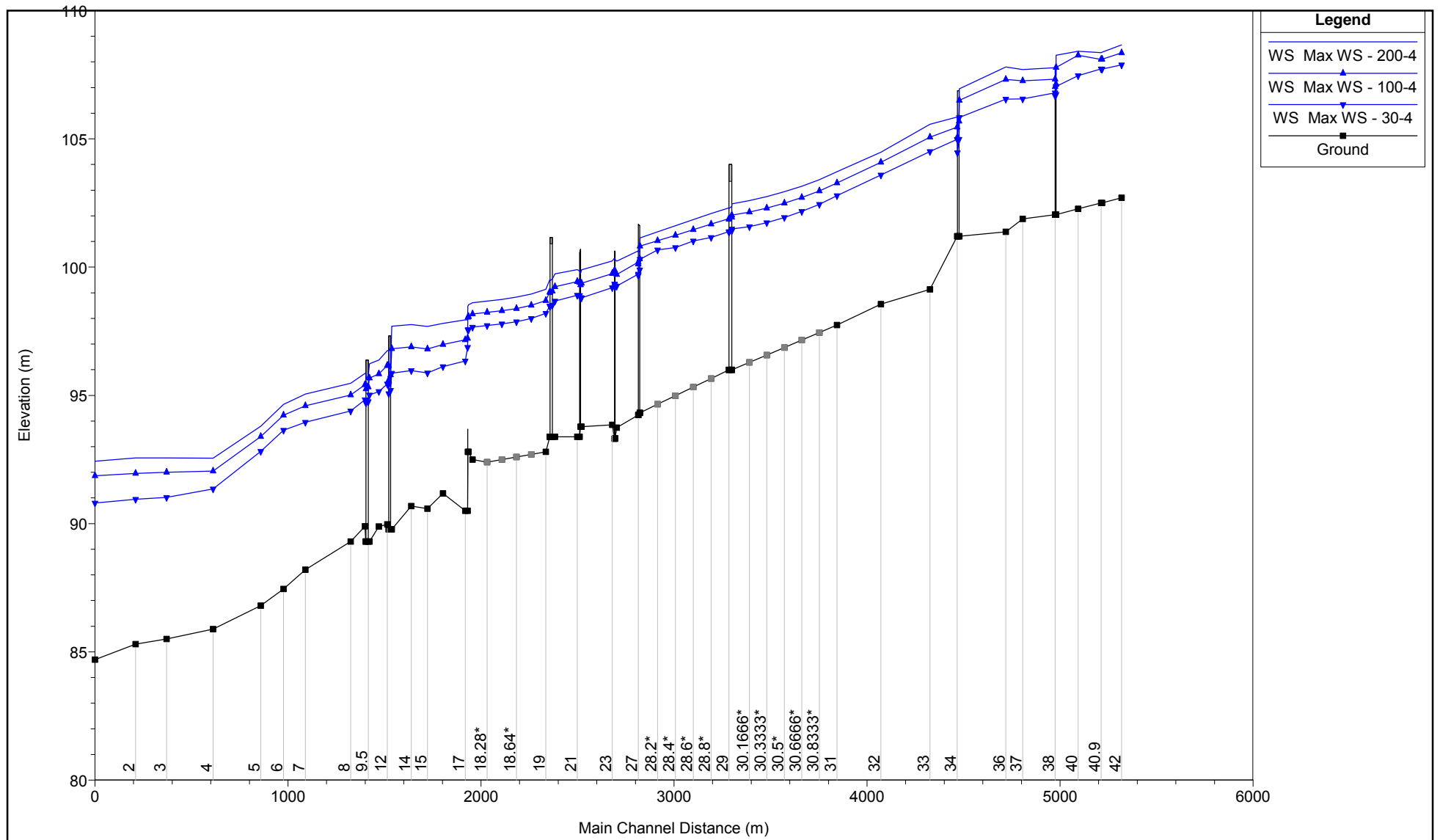
Reach	River Sta	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
POGGIBONSI	3	100-4	472.38	85.50	92.00		92.22	0.000919	2.18	229.73	70.23	0.34
POGGIBONSI	3	30-4	364.69	85.50	91.02		91.28	0.001430	2.31	166.29	61.33	0.40
POGGIBONSI	2	200-4	587.01	85.30	92.56		92.71	0.000490	1.74	355.02	96.63	0.25
POGGIBONSI	2	100-4	436.41	85.30	91.96		92.08	0.000449	1.52	297.09	95.45	0.24
POGGIBONSI	2	30-4	365.20	85.30	90.95		91.10	0.000798	1.70	214.67	67.75	0.31
POGGIBONSI	1	200-4	586.98	84.70	92.43	89.20	92.61	0.000503	1.88	320.12	69.56	0.26
POGGIBONSI	1	100-4	436.87	84.70	91.86	88.74	91.99	0.000417	1.59	280.65	68.75	0.23
POGGIBONSI	1	30-4	310.70	84.70	90.80	88.29	90.91	0.000503	1.48	211.10	60.40	0.25

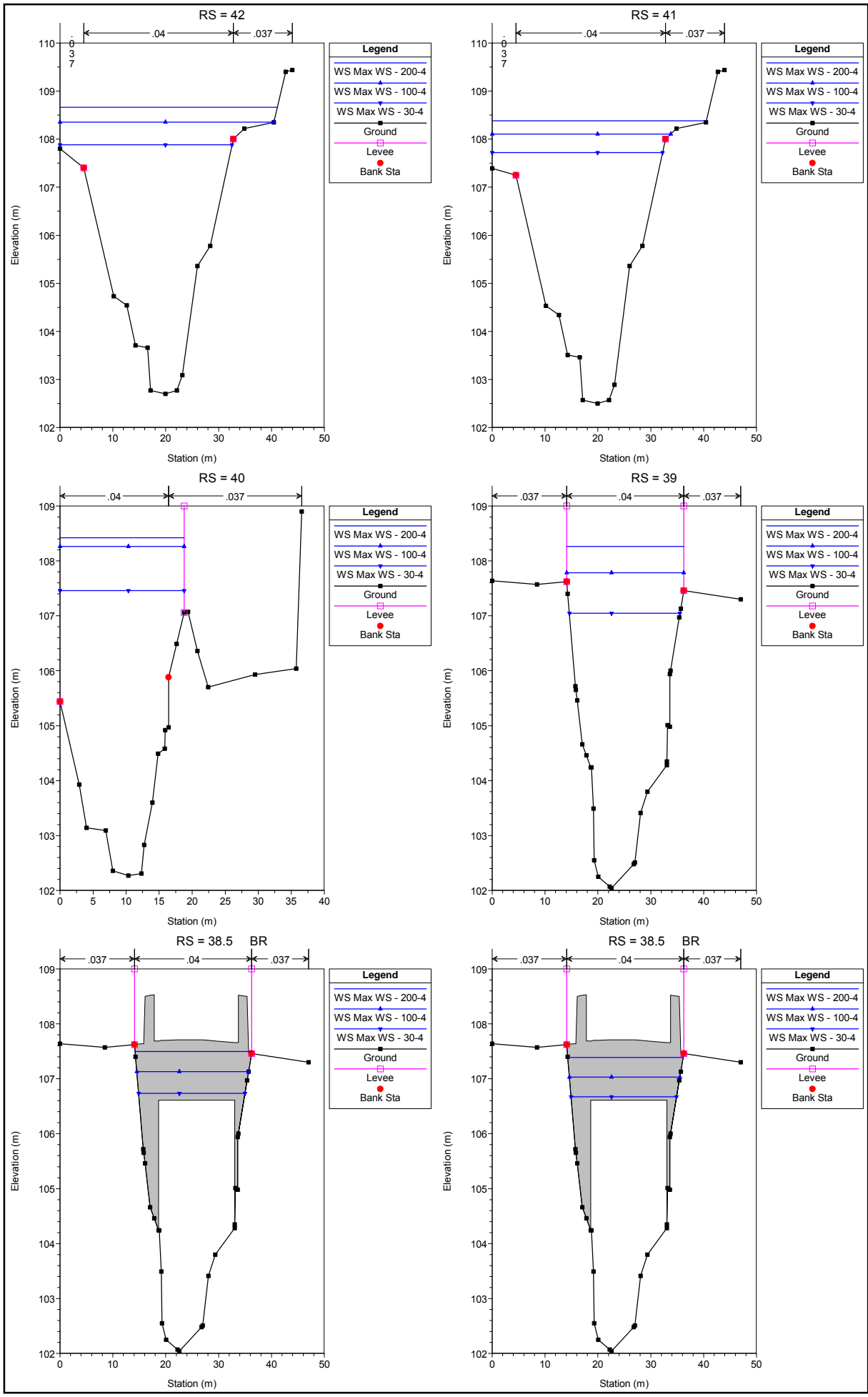
## HEC-RAS Profile: Max WS

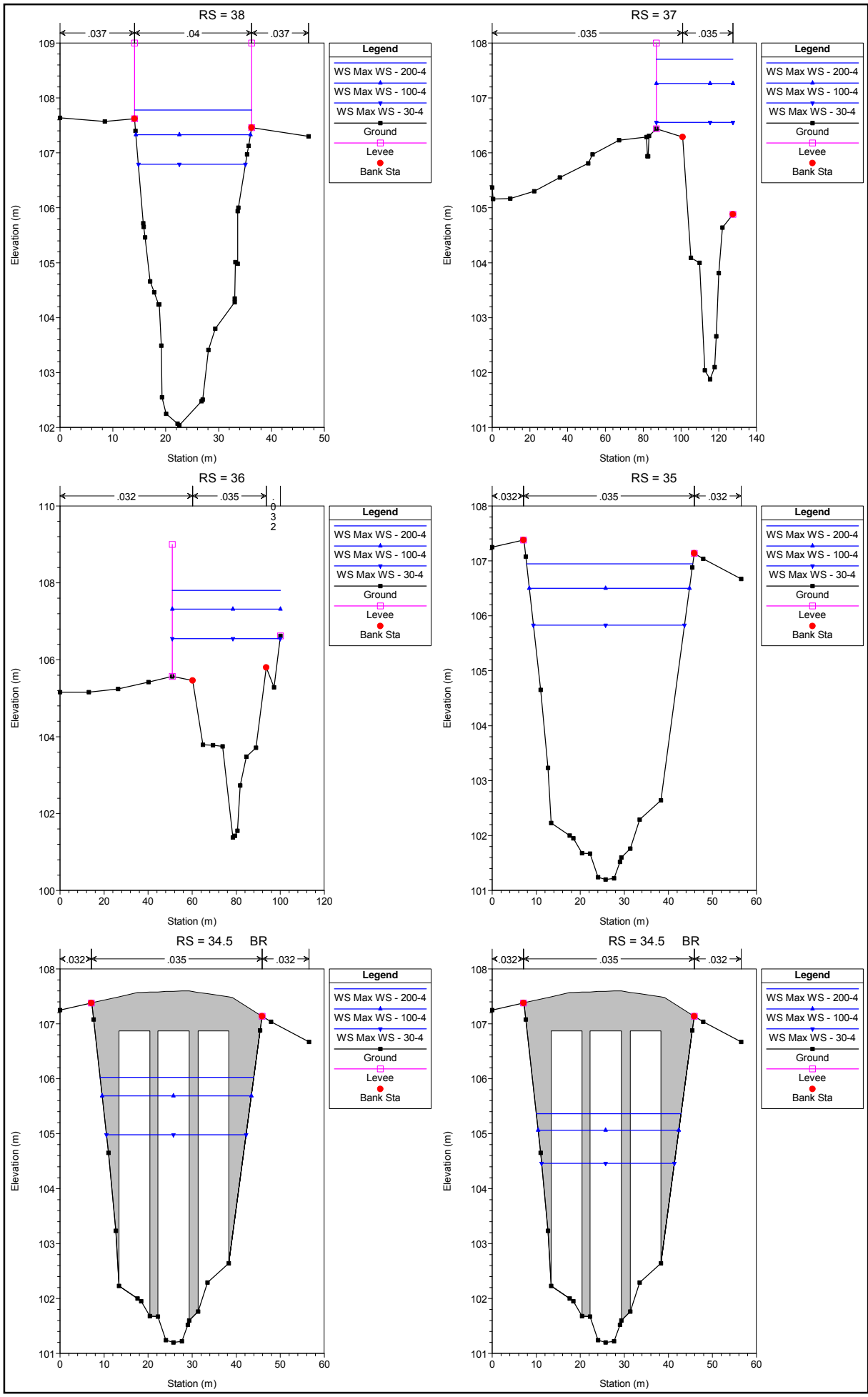
Storage Area	Plan	W.S. Elev (m)	SA Min EI (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
ACQUEDOTTO	200-4	107.45	104.30	0.03	26.42	55.74
ACQUEDOTTO	100-4	106.97	104.30	4.85	25.43	43.31
ACQUEDOTTO	30-4	104.30	104.30	0.00	0.74	0.00
CARFINI	200-4	107.77	104.00	0.97	19.67	22.18
CARFINI	100-4	107.28	104.00	6.99	14.40	13.99
CARFINI	30-4	106.55	104.00	1.37	8.98	5.65
CASE GUCCI	200-4	97.72	93.60	122.16	12.66	29.75
CASE GUCCI	100-4	96.82	93.60	91.14	11.66	18.65
CASE GUCCI	30-4	95.89	93.60	0.00	9.88	8.40
CATEROZZOLI	200-4	97.74	93.20	23.62	16.53	21.81
CATEROZZOLI	100-4	96.82	93.20	-0.77	13.18	7.67
CATEROZZOLI	30-4	93.20	93.20	0.00	0.01	0.00
FI - SI 1	200-4	107.27	106.10	0.18	3.04	1.09
FI - SI 1	100-4	106.93	106.10	0.09	1.43	0.33
FI - SI 1	30-4	106.10	106.10	0.00	0.01	0.00
FI - SI 2	200-4	108.00	108.00	0.00	3.68	0.00
FI - SI 2	100-4	108.00	108.00	0.00	3.68	0.00
FI - SI 2	30-4	108.00	108.00	0.00	3.68	0.00
FONTINO	200-4	92.55	86.90	53.07	66.27	59.82
FONTINO	100-4	91.98	86.90	9.07	49.13	26.81
FONTINO	30-4	86.90	86.90	0.00	0.01	0.00
IMPIANTISPORTIVI	200-4	105.38	103.80	0.80	44.77	48.90
IMPIANTISPORTIVI	100-4	105.12	103.80	2.34	40.84	37.80
IMPIANTISPORTIVI	30-4	103.80	103.80	0.00	10.08	0.00
LA MAGIONE	200-4	107.74	104.00	32.19	39.66	64.83
LA MAGIONE	100-4	107.28	104.00	129.01	35.54	47.43
LA MAGIONE	30-4	106.56	104.00	17.75	30.52	23.80
ORTI	200-4	108.37	106.00	2.06	22.27	31.80
ORTI	100-4	108.14	106.00	2.45	21.43	26.79
ORTI	30-4	107.55	106.00	21.43	17.85	15.17
PARCHEGGIO	200-4	107.45	104.40	3.45	18.02	25.18
PARCHEGGIO	100-4	106.97	104.40	7.01	17.71	16.61
PARCHEGGIO	30-4	104.40	104.40	0.00	0.18	0.00
PARCO	200-4	107.59	104.20	1.43	17.94	29.74
PARCO	100-4	107.08	104.20	25.35	16.25	20.90
PARCO	30-4	106.33	104.20	35.44	13.23	9.54
POGGIBONSI1	200-4	96.95	93.10	1.81	6.19	6.56
POGGIBONSI1	100-4	93.10	93.10	0.00	0.01	0.00
POGGIBONSI1	30-4	93.10	93.10	0.00	0.01	0.00
POGGIBONSI2	200-4	95.53	92.00	5.29	28.39	11.38
POGGIBONSI2	100-4	92.00	92.00	0.00	0.01	0.00
POGGIBONSI2	30-4	92.00	92.00	0.00	0.01	0.00
POGGIBONSI3	200-4	94.68	93.20	0.49	13.34	4.27
POGGIBONSI3	100-4	93.20	93.20	0.00	0.03	0.00
POGGIBONSI3	30-4	93.20	93.20	0.00	0.03	0.00

HEC-RAS Profile: Max WS (Continued)

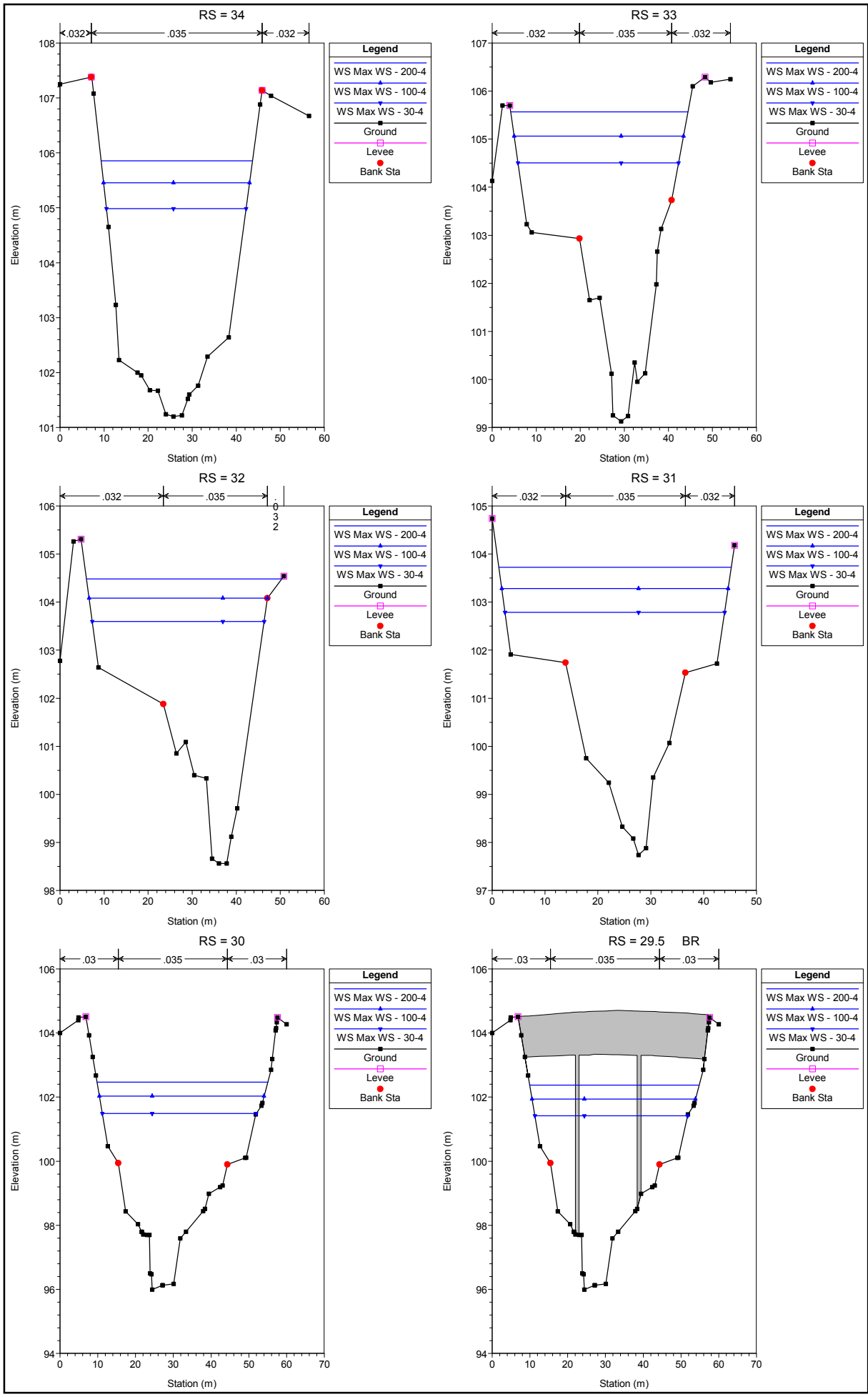
Storage Area	Plan	W.S. Elev (m)	SA Min EI (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
POGGIBONSI4	200-4	94.67	93.90	0.43	9.72	2.47
POGGIBONSI4	100-4	93.90	93.90	0.00	0.33	0.00
POGGIBONSI4	30-4	93.90	93.90	0.00	0.33	0.00
POGGIBONSI5	200-4	94.35	92.90	0.09	3.45	0.89
POGGIBONSI5	100-4	92.90	92.90	0.00	0.00	0.00
POGGIBONSI5	30-4	92.90	92.90	0.00	0.00	0.00
POGGIBONSI6	200-4	93.61	89.50	0.34	12.90	3.16
POGGIBONSI6	100-4	89.50	89.50	0.00	0.00	0.00
POGGIBONSI6	30-4	89.50	89.50	0.00	0.00	0.00

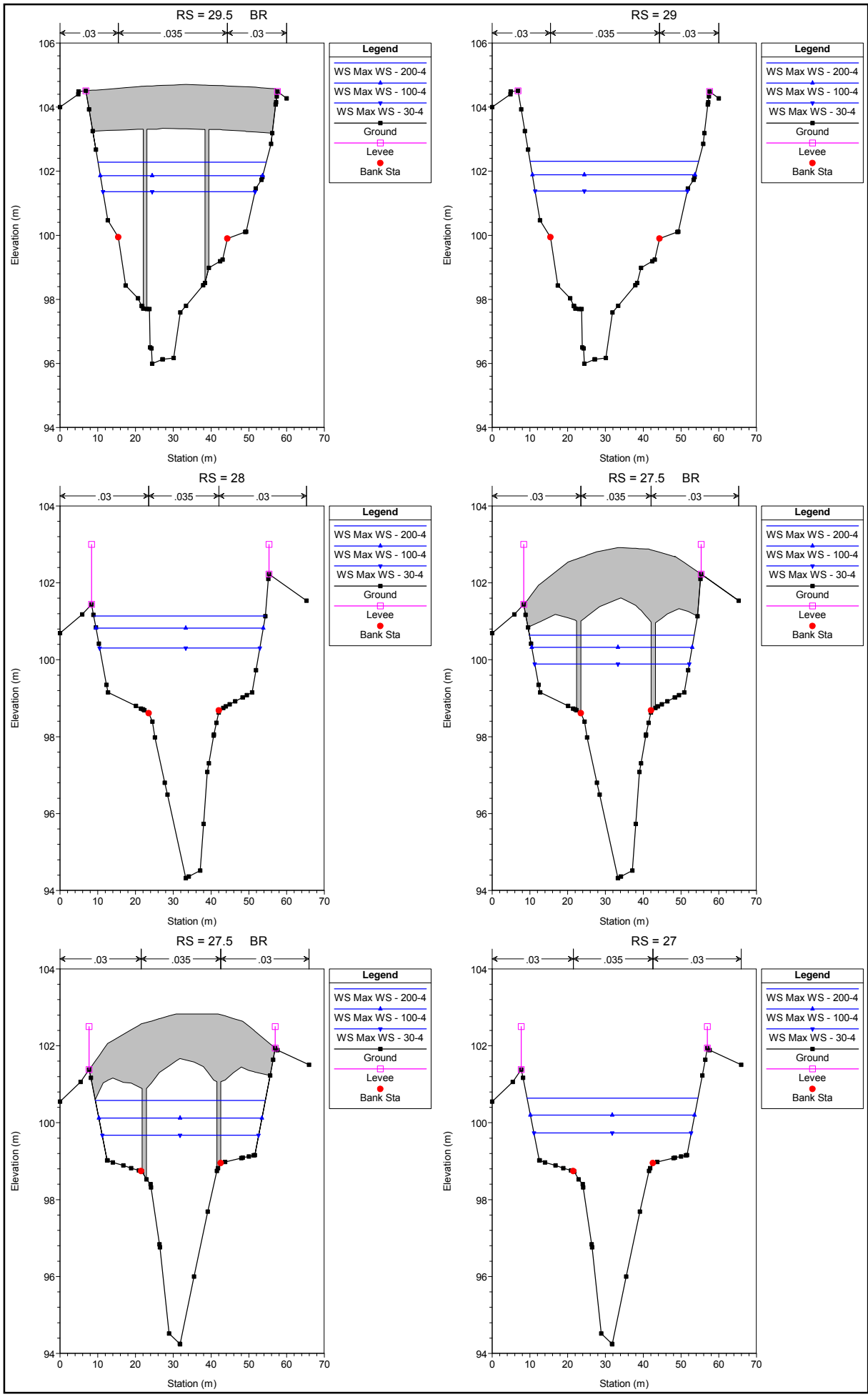


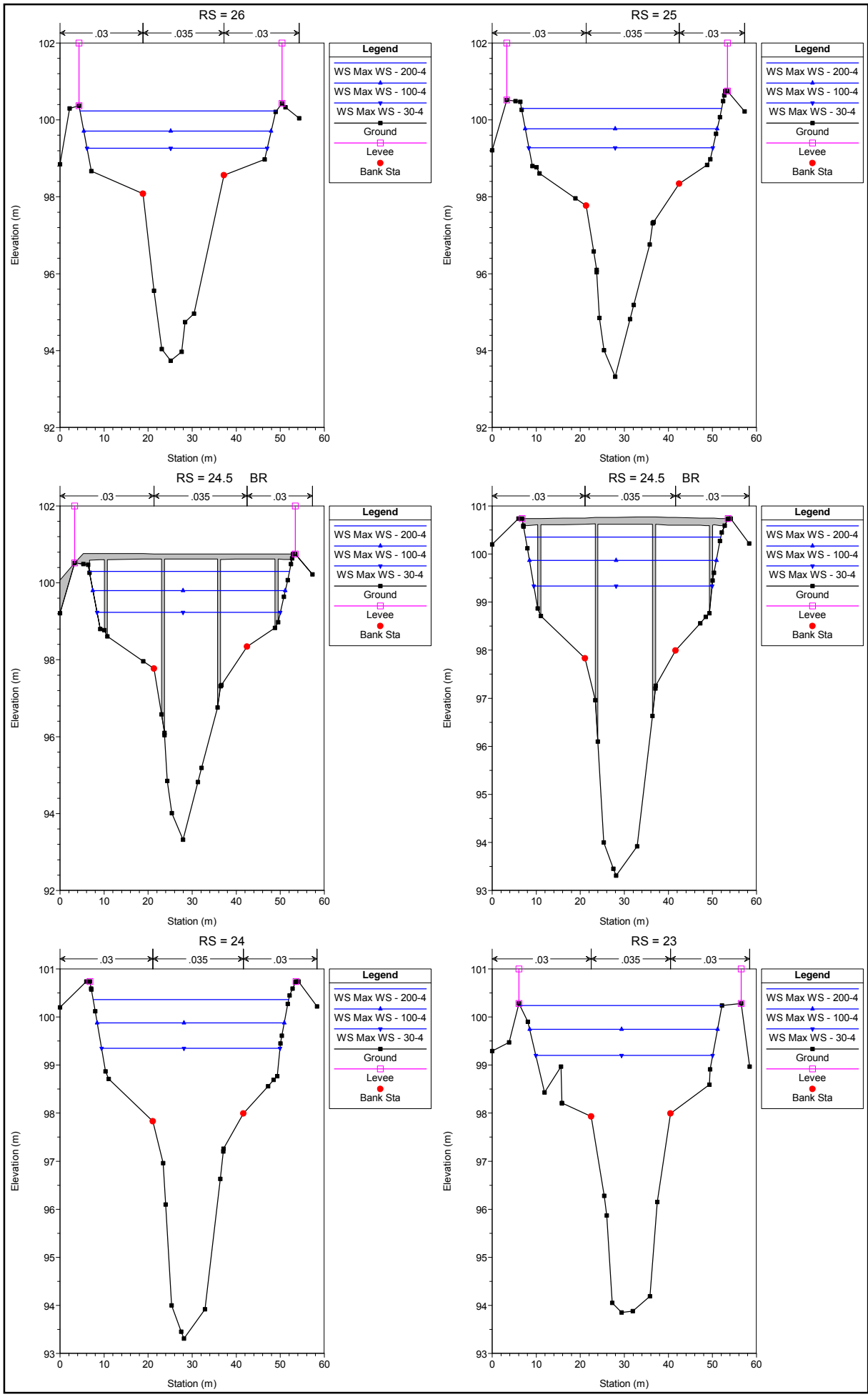


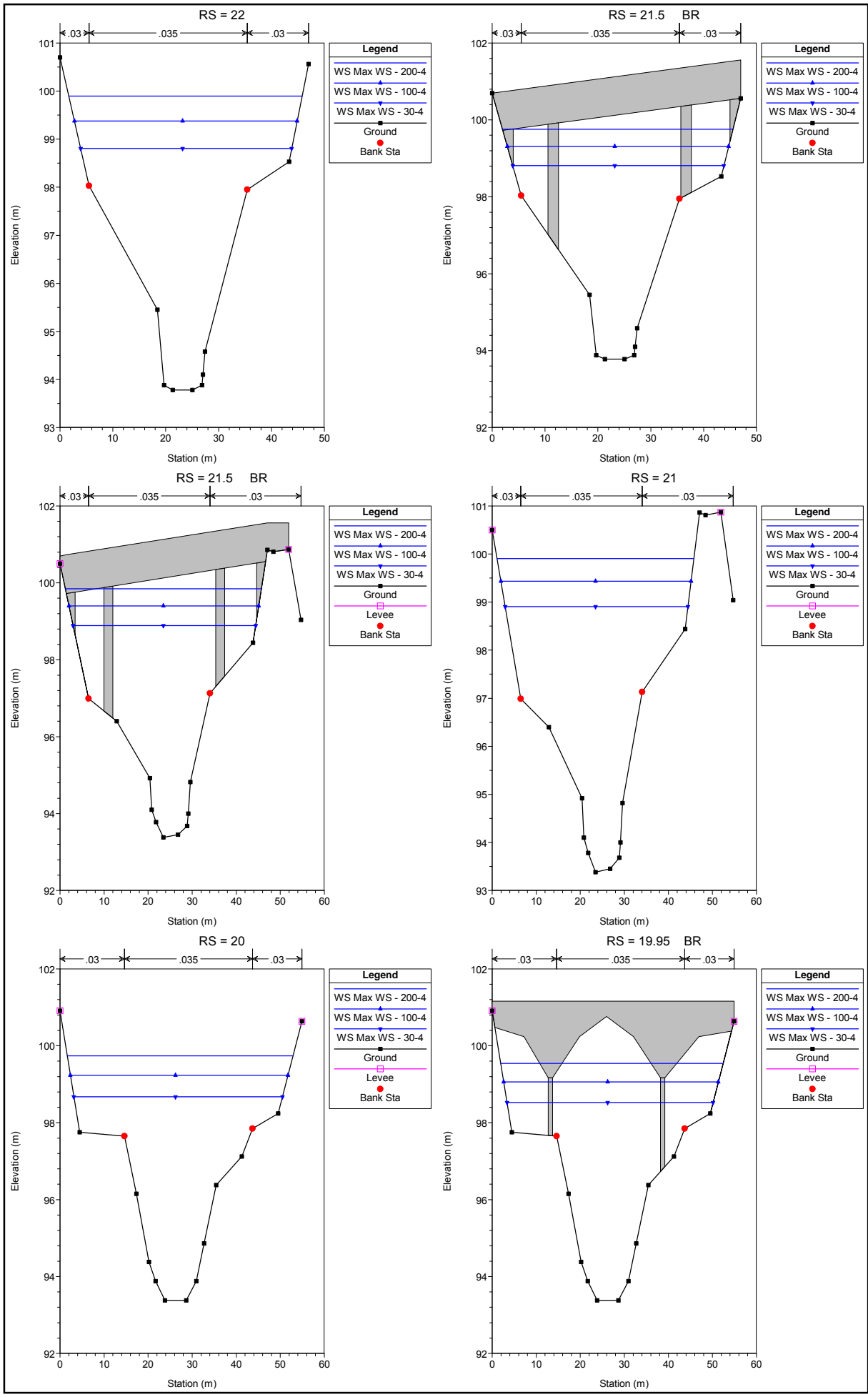


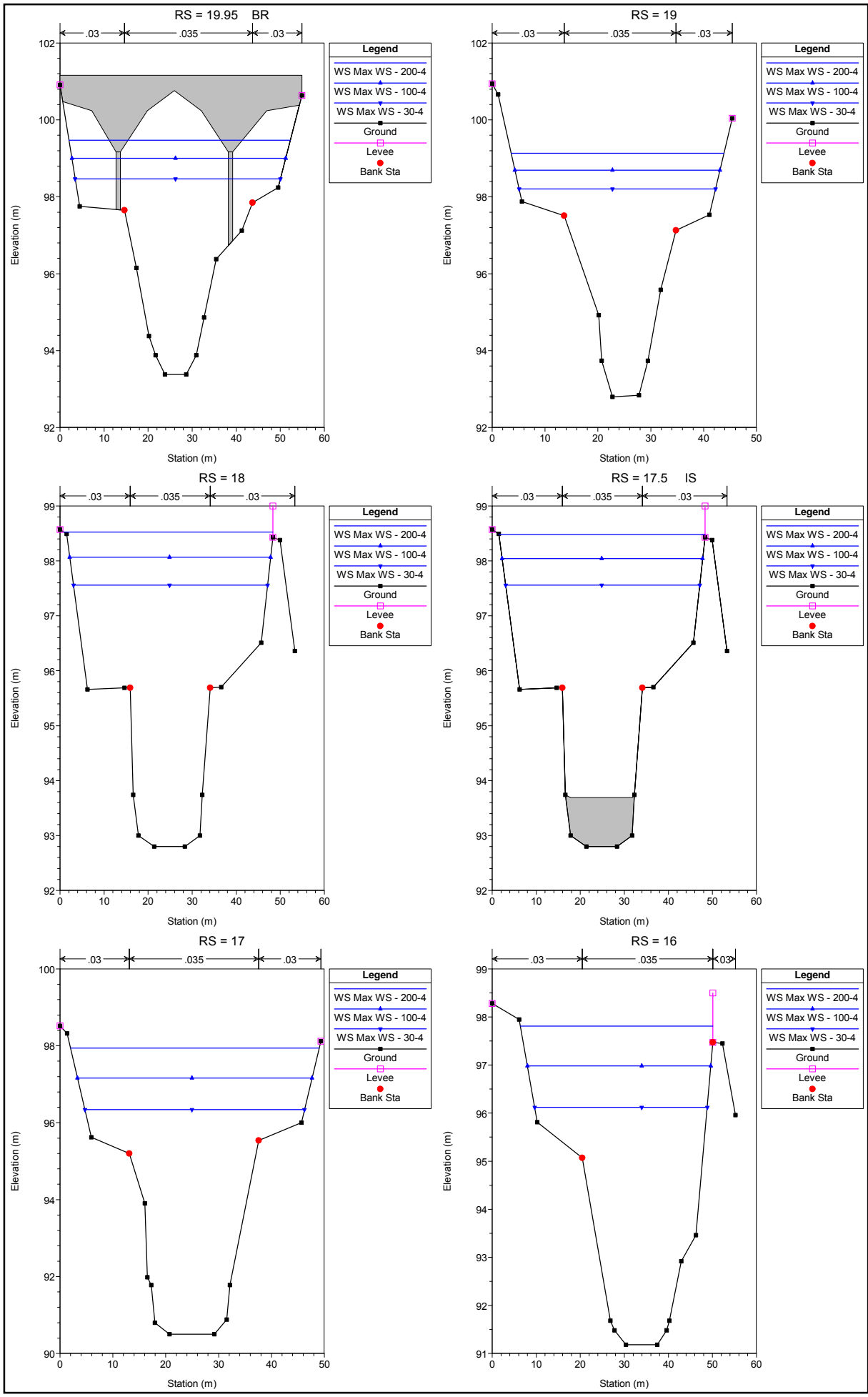


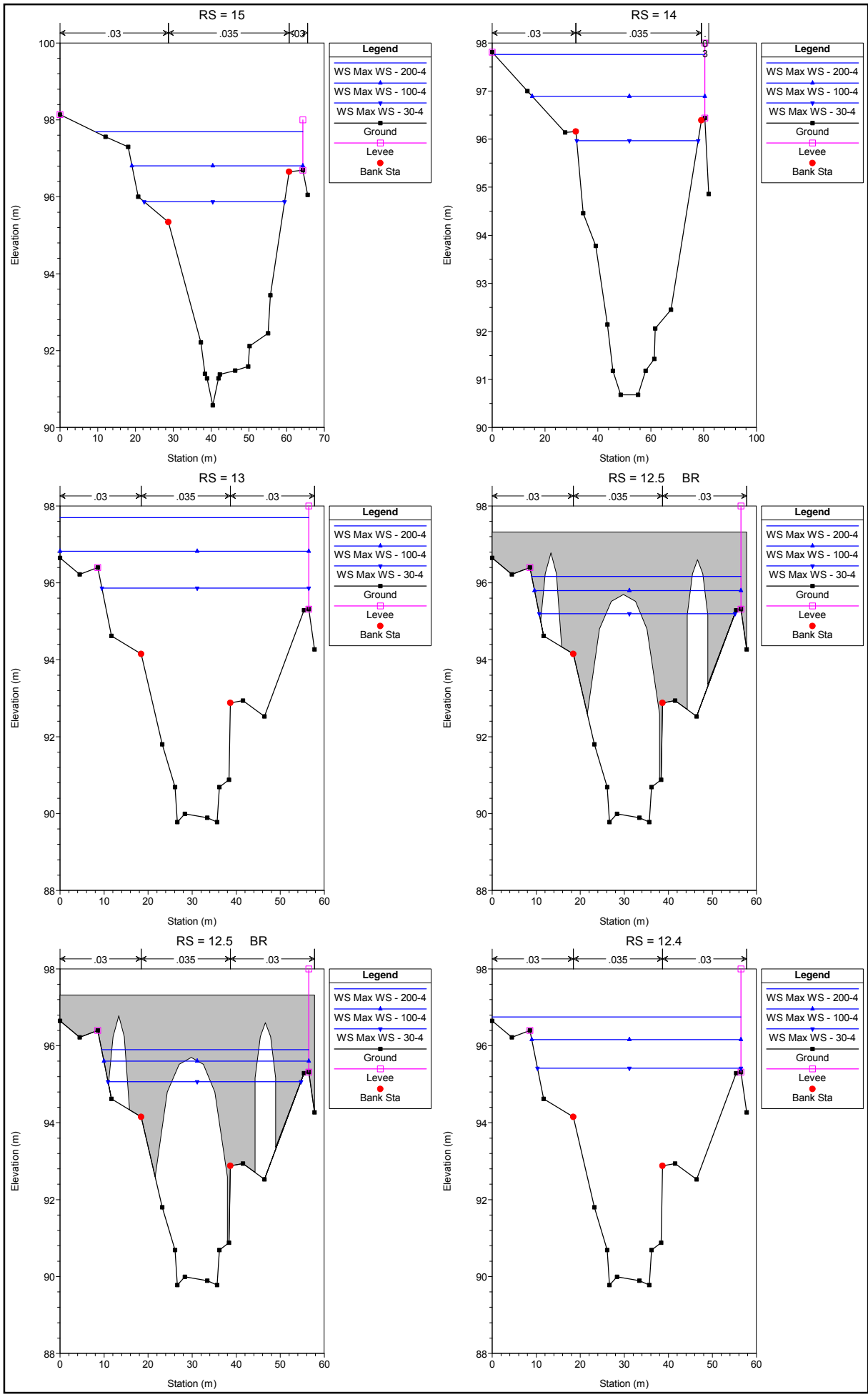


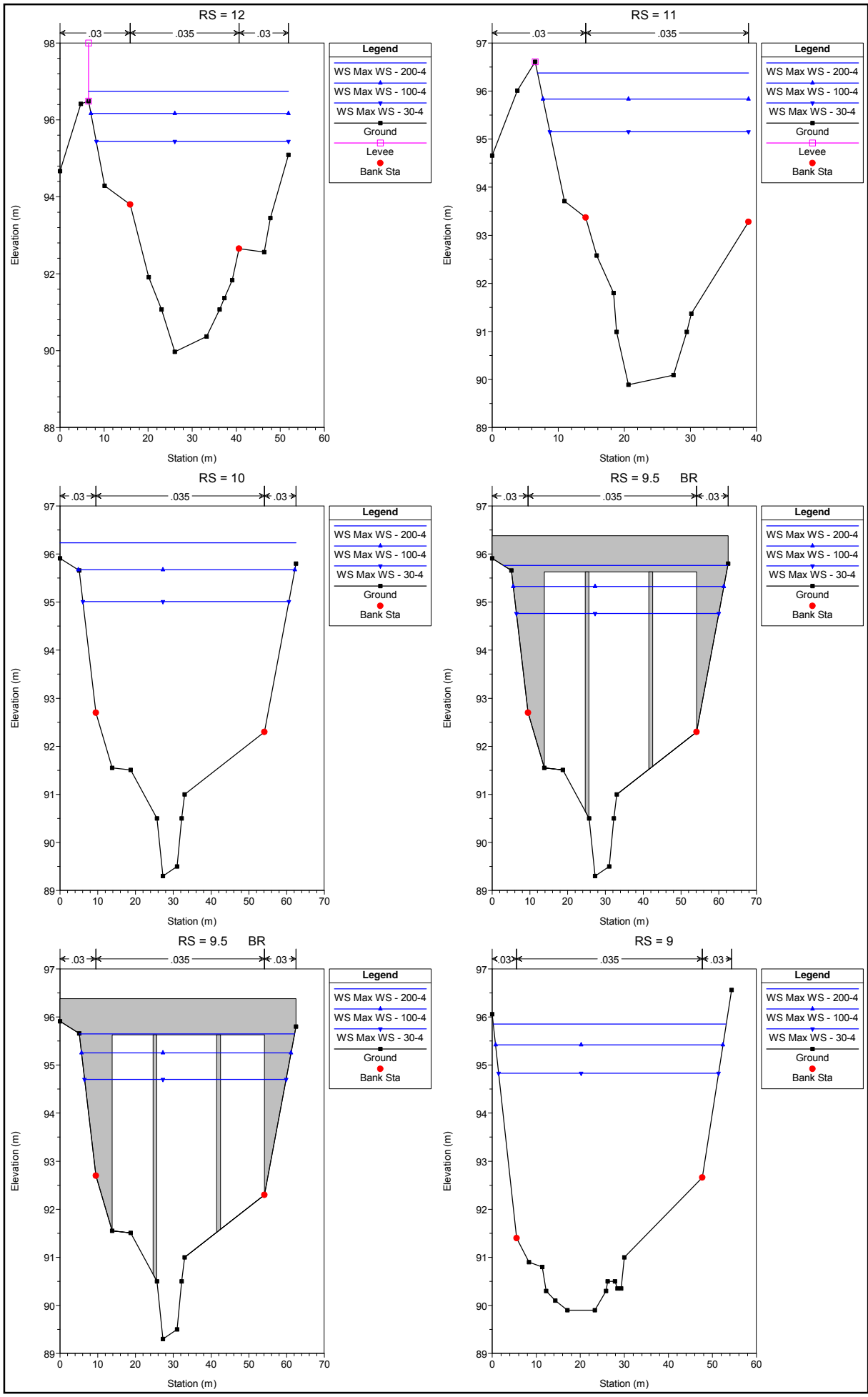


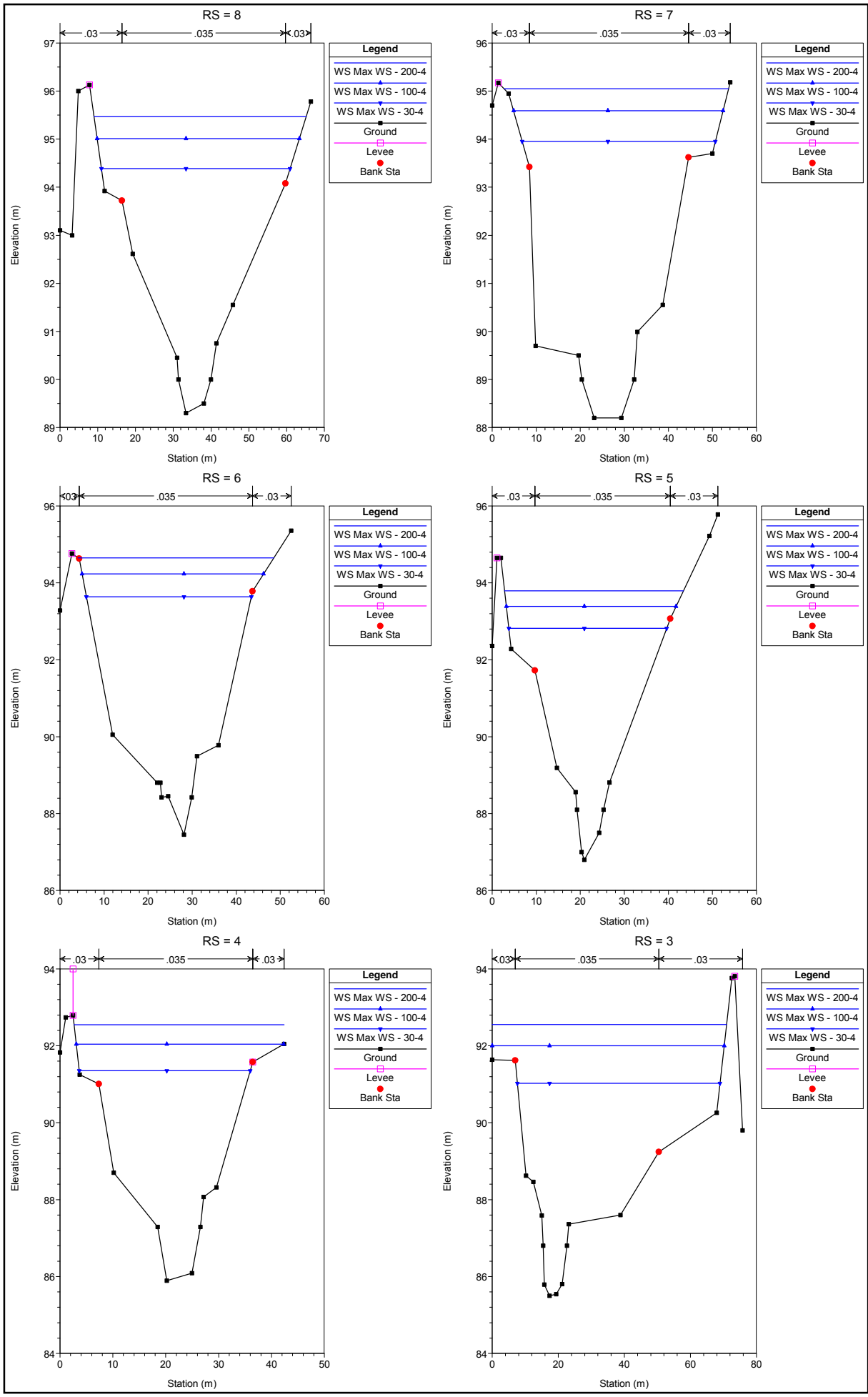




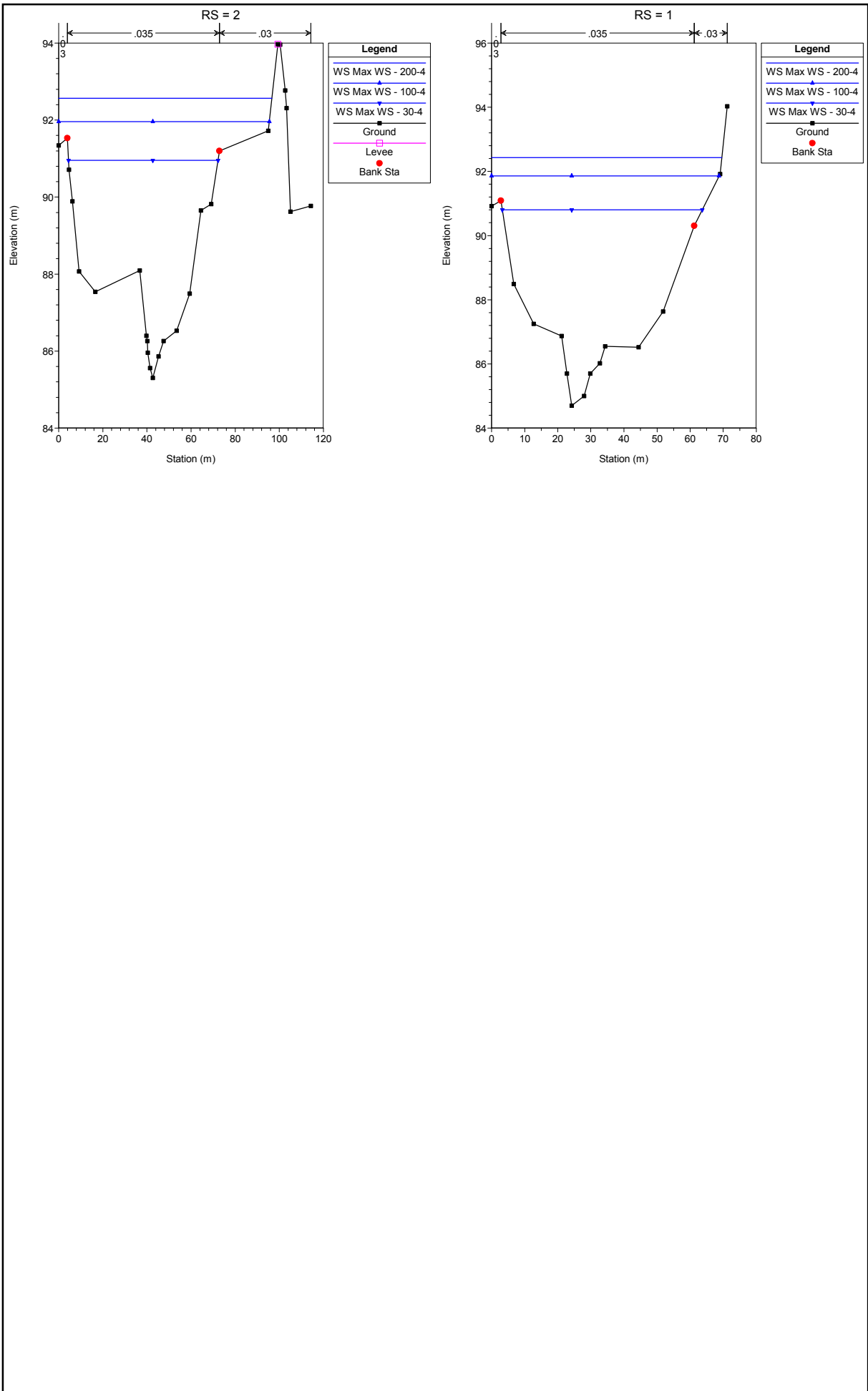










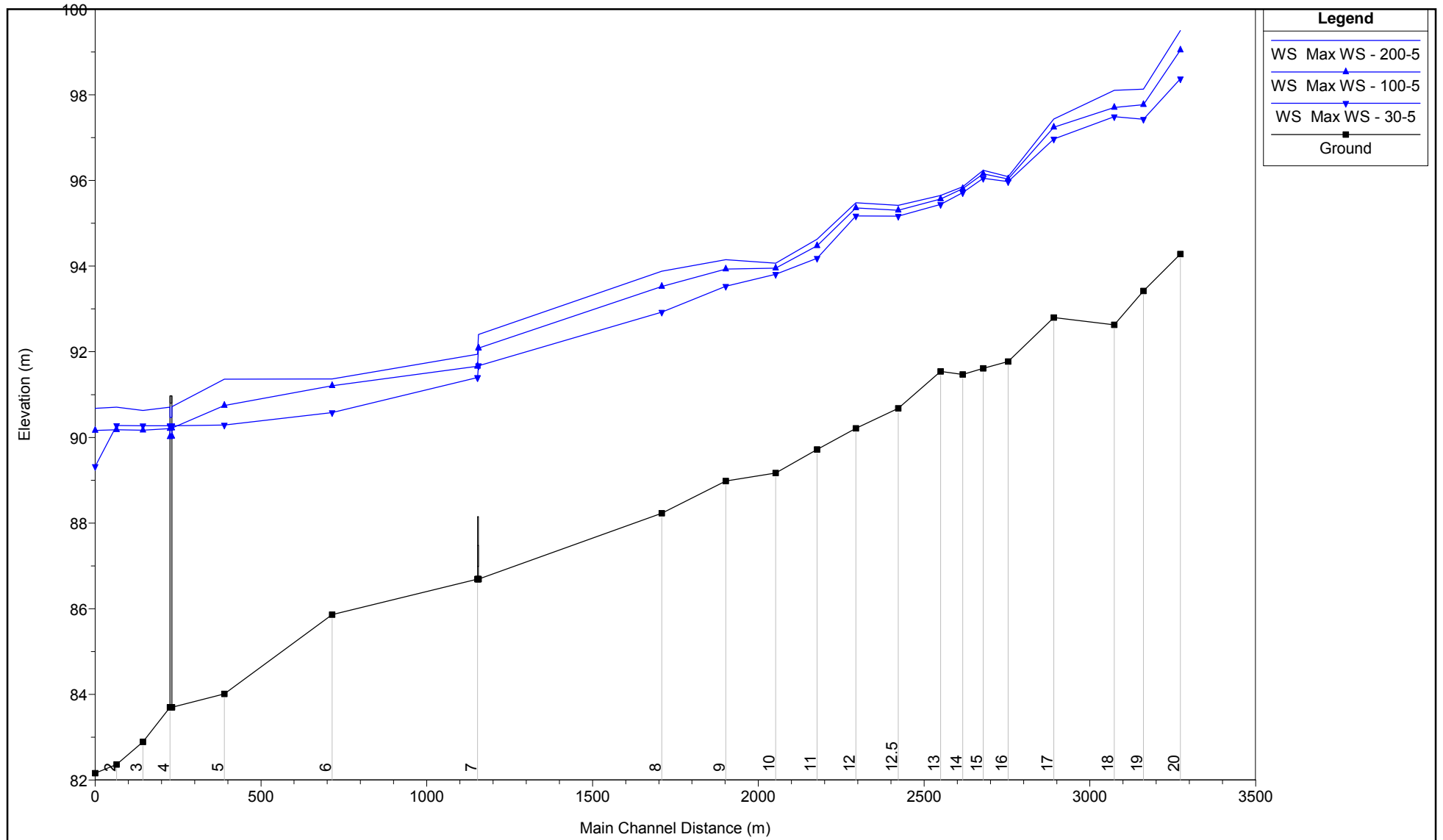


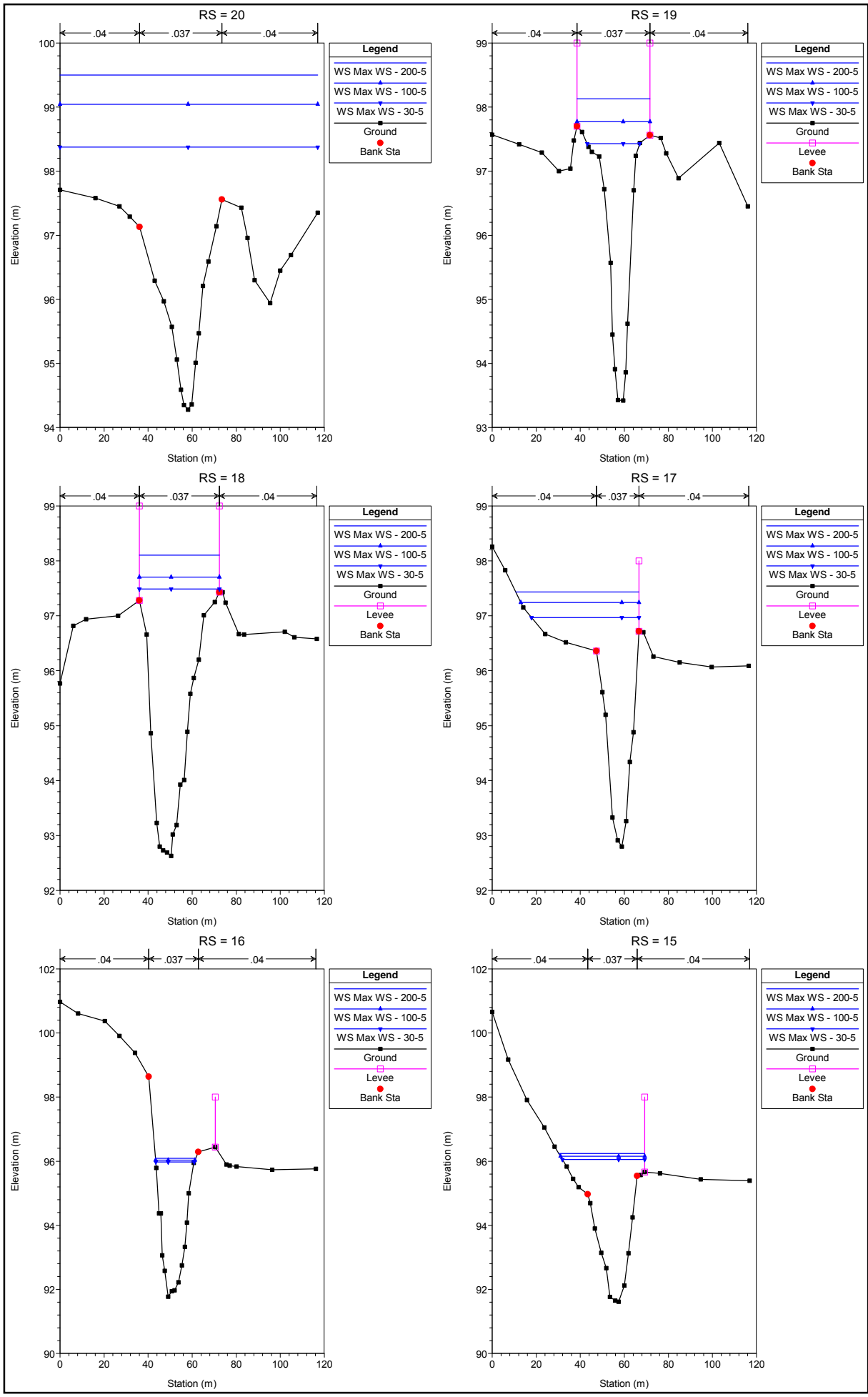
HEC-RAS River: TORRENTE FOCI Reach: VALLE Profile: Max WS

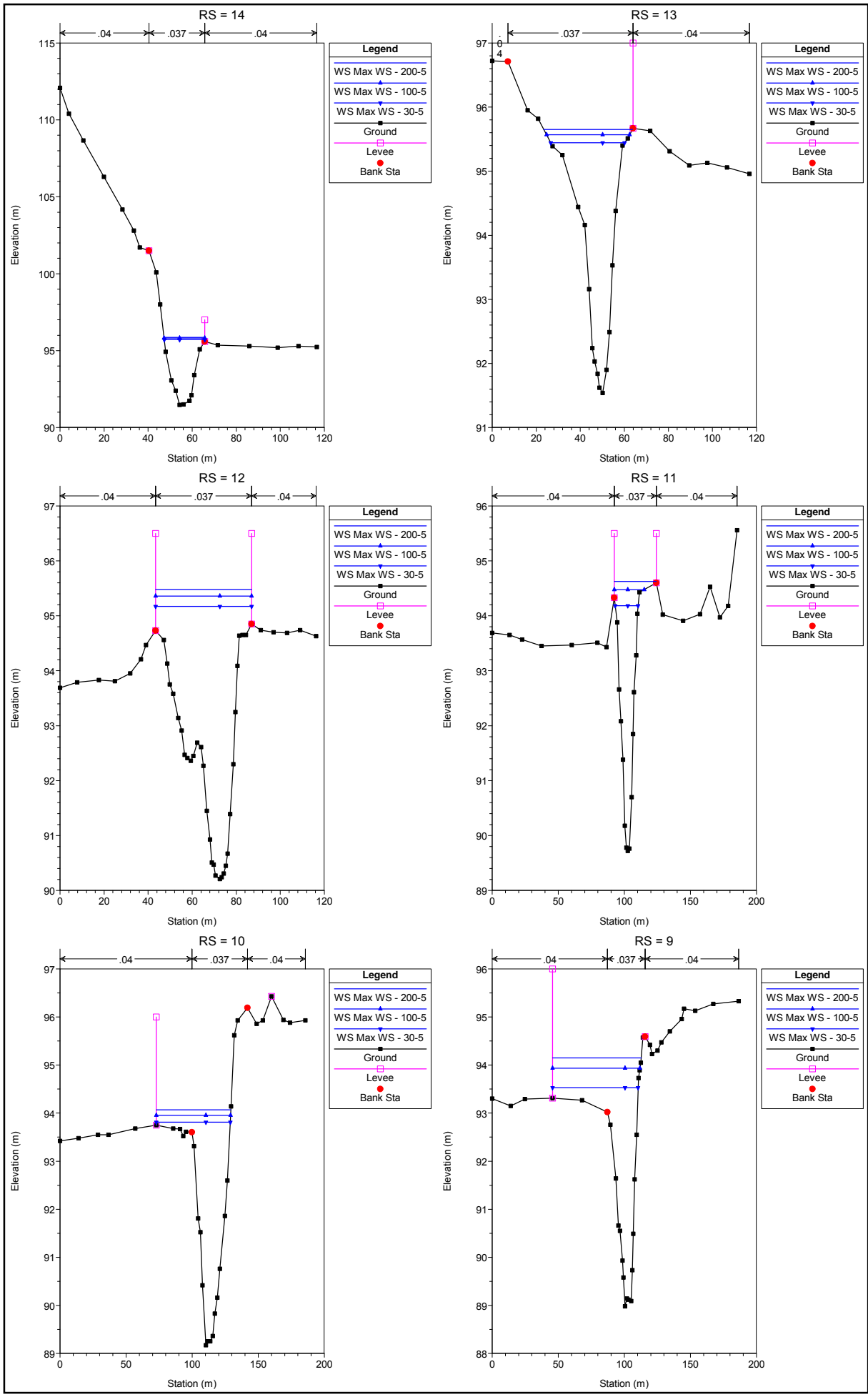
Reach	River Sta	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
VALLE	20	200-5	236.47	94.28	99.50		99.53	0.000203	0.89	322.71	116.97	0.15
VALLE	20	100-5	195.32	94.28	99.04		99.07	0.000244	0.89	269.05	116.97	0.16
VALLE	20	30-5	135.83	94.28	98.38		98.41	0.000334	0.89	191.11	116.97	0.18
VALLE	19	200-5	236.50	93.42	98.13		98.91	0.010601	3.91	60.47	33.03	0.92
VALLE	19	100-5	195.31	93.42	97.77	97.83	98.59	0.014583	4.02	48.60	33.03	1.06
VALLE	19	30-5	134.60	93.42	97.43		98.06	0.010063	3.51	38.34	23.77	0.88
VALLE	18.9		Lat Struct									
VALLE	18.8		Lat Struct									
VALLE	18	200-5	189.05	92.63	98.10		98.26	0.001091	1.74	108.75	36.33	0.32
VALLE	18	100-5	183.23	92.63	97.71		97.90	0.001603	1.94	94.35	36.33	0.38
VALLE	18	30-5	134.52	92.63	97.49		97.61	0.001142	1.56	86.39	36.33	0.32
VALLE	17	200-5	162.49	92.80	97.44		97.68	0.001952	2.32	86.64	55.98	0.42
VALLE	17	100-5	134.04	92.80	97.24		97.45	0.001784	2.14	76.03	53.65	0.40
VALLE	17	30-5	118.91	92.80	96.97		97.21	0.002162	2.22	61.95	48.79	0.44
VALLE	16.9		Lat Struct									
VALLE	16	200-5	195.54	91.77	96.09		96.93	0.007609	4.07	48.08	18.26	0.80
VALLE	16	100-5	174.48	91.77	96.03		96.73	0.006325	3.71	47.08	17.86	0.73
VALLE	16	30-5	152.36	91.77	95.97		96.53	0.005050	3.31	46.02	17.43	0.65
VALLE	15	200-5	186.56	91.61	96.24		96.53	0.001949	2.47	83.18	39.01	0.44
VALLE	15	100-5	168.19	91.61	96.15		96.41	0.001752	2.30	79.98	38.28	0.42
VALLE	15	30-5	148.70	91.61	96.05		96.27	0.001556	2.12	76.07	37.36	0.39
VALLE	14	200-5	167.75	91.47	95.85		96.42	0.004867	3.33	50.31	18.56	0.65
VALLE	14	100-5	153.44	91.47	95.81		96.30	0.004270	3.10	49.51	18.52	0.61
VALLE	14	30-5	139.50	91.47	95.72		96.15	0.003924	2.92	47.77	18.45	0.58
VALLE	13	200-5	164.04	91.54	95.65		96.05	0.006825	2.80	58.67	40.31	0.74
VALLE	13	100-5	151.37	91.54	95.57		95.95	0.006467	2.73	55.40	37.75	0.72
VALLE	13	30-5	137.59	91.54	95.44		95.81	0.006074	2.70	50.89	33.46	0.70
VALLE	12.8		Lat Struct									
VALLE	12.5	200-5	147.61	90.68	95.42		95.56	0.001069	1.78	95.76	45.38	0.32
VALLE	12.5	100-5	142.87	90.68	95.30		95.45	0.001165	1.82	90.57	45.38	0.33
VALLE	12.5	30-5	136.62	90.68	95.17		95.33	0.001281	1.85	84.53	45.38	0.34
VALLE	12	200-5	98.97	90.21	95.48		95.52	0.000269	0.83	119.93	43.64	0.16
VALLE	12	100-5	99.26	90.21	95.36		95.40	0.000312	0.87	114.59	43.64	0.17
VALLE	12	30-5	112.89	90.21	95.17		95.23	0.000512	1.06	106.40	43.64	0.22
VALLE	11	200-5	122.79	89.72	94.63		94.92	0.004783	2.40	51.11	31.88	0.61
VALLE	11	100-5	120.79	89.72	94.48		94.81	0.004064	2.58	46.89	22.63	0.57
VALLE	11	30-5	120.22	89.72	94.18		94.61	0.004425	2.90	41.39	17.32	0.60
VALLE	10	200-5	194.65	89.17	94.07		94.30	0.001578	2.14	99.05	56.42	0.39
VALLE	10	100-5	181.86	89.17	93.95		94.18	0.001590	2.10	92.58	56.22	0.39
VALLE	10	30-5	151.13	89.17	93.81		93.99	0.001312	1.86	84.59	55.96	0.36
VALLE	9.9		Lat Struct									
VALLE	9	200-5	124.01	88.98	94.15		94.23	0.000640	1.33	114.63	67.07	0.25
VALLE	9	100-5	136.51	88.98	93.93		94.06	0.001057	1.66	100.17	66.11	0.31
VALLE	9	30-5	141.58	88.98	93.53		93.77	0.002104	2.21	73.80	64.75	0.44
VALLE	8	200-5	129.80	88.23	93.88		93.98	0.001114	1.39	93.47	45.90	0.31
VALLE	8	100-5	143.58	88.23	93.52		93.69	0.002064	1.84	78.20	40.20	0.42
VALLE	8	30-5	143.49	88.23	92.93		93.25	0.003125	2.51	57.22	24.51	0.52
VALLE	7.9		Lat Struct									
VALLE	7.8		Lat Struct									
VALLE	7.1	200-5	246.91	86.69	92.40		92.77	0.002097	2.68	92.29	24.37	0.44
VALLE	7.1	100-5	216.02	86.69	92.09		92.42	0.002085	2.55	84.57	24.37	0.44
VALLE	7.1	30-5	159.92	86.69	91.67		91.91	0.001676	2.15	74.47	24.30	0.39
VALLE	7.05		Culvert									
VALLE	7	200-5	244.70	86.69	91.94		92.41	0.003035	3.02	81.11	24.37	0.53
VALLE	7	100-5	216.01	86.69	91.66		92.09	0.003082	2.91	74.25	24.29	0.53
VALLE	7	30-5	159.92	86.69	91.40		91.68	0.002173	2.35	67.93	23.70	0.44
VALLE	6.9		Lat Struct									
VALLE	6.8		Lat Struct									
VALLE	6	200-5	174.58	85.86	91.36		91.44	0.000878	1.20	145.43	76.24	0.28
VALLE	6	100-5	120.60	85.86	91.21		91.25	0.000514	0.90	133.78	72.06	0.21
VALLE	6	30-5	153.37	85.86	90.58		90.72	0.001958	1.64	93.33	55.72	0.41
VALLE	5.9		Lat Struct									
VALLE	5.8		Lat Struct									

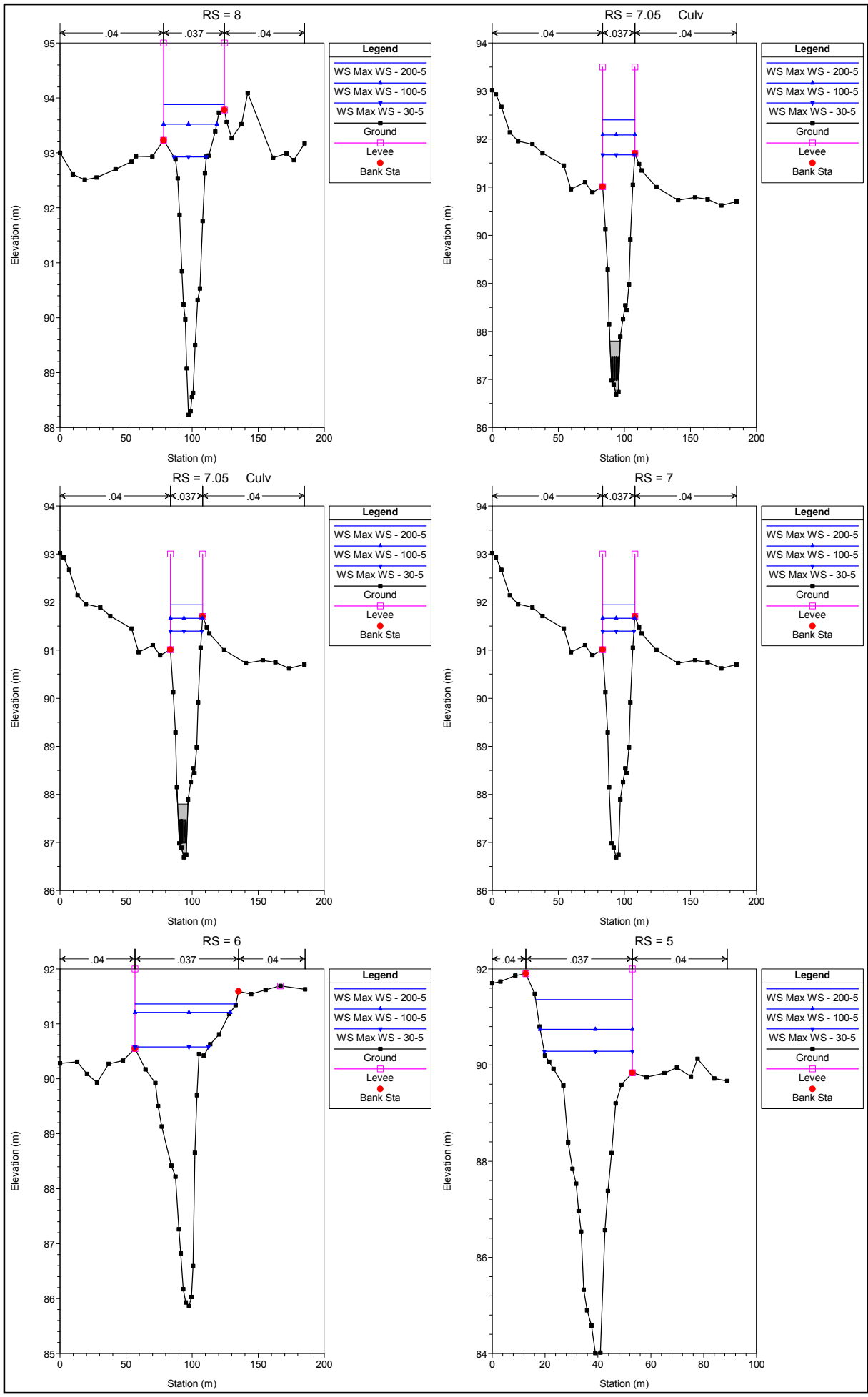
HEC-RAS Profile: Max WS

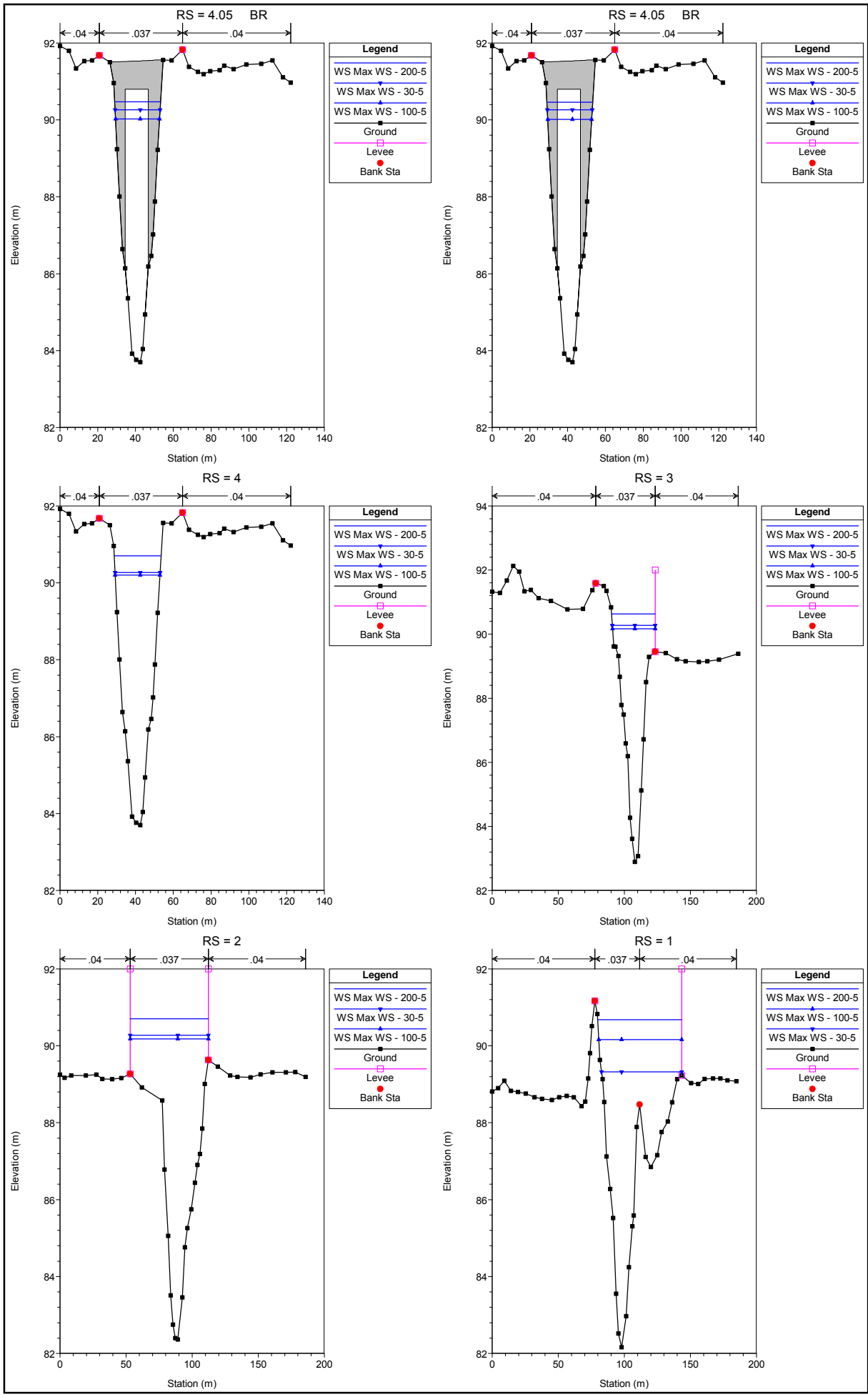
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
FOCI 1	200-5	89.10	89.10	0.00	0.00	0.00
FOCI 1	100-5	89.10	89.10	0.00	0.00	0.00
FOCI 1	30-5	89.10	89.10	0.00	0.00	0.00
FOCI 10	200-5	93.47	89.40	0.59	17.50	8.18
FOCI 10	100-5	93.11	89.40	0.01	10.45	3.15
FOCI 10	30-5	89.40	89.40	0.00	0.00	0.00
FOCI 11	200-5	94.01	88.40	9.80	61.16	48.62
FOCI 11	100-5	93.73	88.40	8.95	55.34	32.12
FOCI 11	30-5	93.31	88.40	0.33	40.42	13.33
FOCI 12	200-5	95.41	89.60	2.17	50.52	29.85
FOCI 12	100-5	95.28	89.60	4.59	36.26	24.78
FOCI 12	30-5	95.00	89.60	0.83	24.09	15.80
FOCI 13	200-5	97.73	93.70	46.44	64.26	83.34
FOCI 13	100-5	97.41	93.70	12.45	62.85	62.79
FOCI 13	30-5	96.46	93.70	2.86	38.44	9.05
FOCI 14	200-5	98.12	94.90	0.12	30.99	22.33
FOCI 14	100-5	97.74	94.90	0.34	25.76	11.38
FOCI 14	30-5	97.45	94.90	1.58	13.89	4.56
FOCI 2	200-5	90.68	86.70	2.43	47.86	55.12
FOCI 2	100-5	90.16	86.70	8.83	39.41	32.38
FOCI 2	30-5	90.00	86.70	7.23	34.17	25.98
FOCI 3	200-5	90.69	82.70	1.10	50.08	64.36
FOCI 3	100-5	90.17	82.70	1.74	42.01	39.82
FOCI 3	30-5	89.33	82.70	32.51	23.40	12.17
FOCI 4	200-5	91.24	89.20	4.01	28.84	14.90
FOCI 4	100-5	90.61	89.20	15.23	10.64	5.83
FOCI 4	30-5	90.28	89.20	6.47	6.26	3.11
FOCI 5	200-5	91.07	85.60	35.95	3.13	3.91
FOCI 5	100-5	90.50	85.60	15.71	1.85	2.51
FOCI 5	30-5	90.28	85.60	7.35	1.65	2.10
FOCI 6	200-5	91.67	90.00	14.34	18.43	13.67
FOCI 6	100-5	91.39	90.00	88.27	17.28	8.77
FOCI 6	30-5	90.99	90.00	45.42	12.38	2.77
FOCI 7	200-5	91.41	84.00	3.95	23.54	33.38
FOCI 7	100-5	90.97	84.00	254.40	23.12	23.14
FOCI 7	30-5	90.31	84.00	43.49	20.37	8.89
FOCI 8	200-5	92.85	88.40	3.19	28.62	31.65
FOCI 8	100-5	92.33	88.40	3.77	18.22	18.82
FOCI 8	30-5	91.81	88.40	0.94	13.23	10.85
FOCI 9	200-5	92.96	87.40	23.18	23.59	30.02
FOCI 9	100-5	92.63	87.40	13.37	22.45	22.32
FOCI 9	30-5	92.15	87.40	2.11	19.46	12.28













HEC-RAS River: TORRENTE FOCI Reach: VALLE Profile: Max WS (Continued)

Reach	River Sta	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	5	200-5	48.90	84.01	91.36		91.37	0.000057	0.41	119.63	36.56	0.07
VALLE	5	100-5	128.07	84.01	90.74		90.83	0.000711	1.31	97.49	34.91	0.25
VALLE	5	30-5	35.78	84.01	90.29		90.30	0.000092	0.44	81.93	33.28	0.09
VALLE	4.1	200-5	252.73	83.70	90.72	87.94	90.99	0.001250	2.30	110.06	24.87	0.35
VALLE	4.1	100-5	214.04	83.70	90.22	87.63	90.46	0.001235	2.19	97.88	23.75	0.34
VALLE	4.1	30-5	39.67	83.70	90.27	85.36	90.28	0.000041	0.40	99.19	23.87	0.06
VALLE	4.05		Bridge									
VALLE	4	200-5	252.71	83.70	90.70		90.97	0.001259	2.30	109.75	24.85	0.35
VALLE	4	100-5	214.04	83.70	90.20		90.45	0.001245	2.19	97.61	23.72	0.35
VALLE	4	30-5	39.63	83.70	90.27		90.28	0.000041	0.40	99.19	23.87	0.06
VALLE	3.9		Lat Struct									
VALLE	3	200-5	255.48	82.89	90.63		90.86	0.001381	2.13	119.87	33.16	0.36
VALLE	3	100-5	27.72	82.89	90.17		90.17	0.000024	0.26	104.73	32.37	0.05
VALLE	3	30-5	35.19	82.89	90.27		90.28	0.000036	0.33	108.06	32.54	0.06
VALLE	2.8		Lat Struct									
VALLE	2	200-5	260.93	82.36	90.70		90.77	0.000352	1.16	224.91	59.15	0.19
VALLE	2	100-5	217.16	82.36	90.18		90.25	0.000391	1.12	193.97	59.15	0.20
VALLE	2	30-5	2.91	82.36	90.28		90.28	0.000000	0.01	199.51	59.15	0.00
VALLE	1	200-5	256.32	82.16	90.68	86.69	90.74	0.000264	1.18	247.58	63.65	0.17
VALLE	1	100-5	213.59	82.16	90.16	86.32	90.22	0.000277	1.15	214.68	62.86	0.17
VALLE	1	30-5	148.83	82.16	89.32	85.68	89.37	0.000285	1.07	162.54	60.76	0.17

HEC-RAS Profile: Max WS

Reach	River Sta	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
TATTERA	16	DROVE 200-4	113.47	117.93	119.98		120.30	0.007454	2.49	45.63	35.70	0.70
TATTERA	16	100-4	97.24	117.93	119.87		120.15	0.007269	2.33	41.74	35.40	0.68
TATTERA	16	30-4	72.72	117.93	119.69		119.91	0.006919	2.06	35.34	34.91	0.65
TATTERA	15	DROVE 200-4	113.38	117.54	119.61		119.95	0.009529	2.57	44.10	39.93	0.78
TATTERA	15	100-4	97.22	117.54	119.50		119.81	0.009712	2.46	39.54	38.83	0.78
TATTERA	15	30-4	72.63	117.54	119.31		119.57	0.009754	2.23	32.54	37.08	0.76
TATTERA	14	DROVE 200-4	113.25	117.10	119.34		119.64	0.007123	2.45	46.22	35.72	0.69
TATTERA	14	100-4	97.19	117.10	119.23		119.50	0.006839	2.29	42.50	35.39	0.67
TATTERA	14	30-4	72.56	117.10	119.09		119.28	0.005659	1.93	37.53	34.94	0.60
TATTERA	13	DROVE 200-4	113.31	116.23	118.78	118.77	119.19	0.017289	2.84	39.93	48.38	1.00
TATTERA	13	100-4	95.47	116.23	118.67	118.66	119.06	0.017505	2.74	34.80	44.72	0.99
TATTERA	13	30-4	72.60	116.23	118.54		118.86	0.015650	2.47	29.38	40.48	0.93
TATTERA	12.9	DROVE 200-4	106.28	116.35	118.69		118.82	0.004238	1.61	66.07	65.68	0.51
TATTERA	12.9	100-4	82.86	116.35	118.59		118.68	0.003606	1.40	59.39	64.83	0.47
TATTERA	12.9	30-4	72.41	116.35	118.57		118.65	0.002910	1.24	58.36	64.70	0.42
TATTERA	12.5		Culvert									
TATTERA	12.1	DROVE 200-4	107.84	116.35	118.46		118.68	0.009862	2.11	51.06	63.76	0.75
TATTERA	12.1	100-4	95.93	116.35	118.32		118.58	0.013662	2.24	42.78	62.44	0.86
TATTERA	12.1	30-4	72.80	116.35	118.17		118.41	0.014980	2.17	33.49	54.75	0.89
TATTERA	11.9	DROVE 200-4	105.80	114.91	117.81		117.93	0.003057	1.52	69.77	60.16	0.45
TATTERA	11.9	100-4	93.29	114.91	117.75		117.85	0.002703	1.40	66.58	58.96	0.42
TATTERA	11.9	30-4	70.23	114.91	117.54		117.63	0.002561	1.28	54.76	53.14	0.40
TATTERA	11.5		Culvert									
TATTERA	11.1	DROVE 200-4	117.01	114.91	117.37		117.70	0.011494	2.56	45.70	48.45	0.84
TATTERA	11.1	100-4	96.45	114.91	117.24		117.54	0.011356	2.43	39.69	45.07	0.83
TATTERA	11.1	30-4	73.40	114.91	117.05		117.32	0.011837	2.31	31.80	40.20	0.83
TATTERA	10	DROVE 200-4	119.85	110.17	113.06	112.98	113.59	0.013694	3.23	37.15	31.21	0.94
TATTERA	10	100-4	92.21	110.17	112.88		113.30	0.011323	2.89	31.92	27.35	0.85
TATTERA	10	30-4	70.65	110.17	112.65		113.02	0.010238	2.70	26.15	22.86	0.81
TATTERA	9	DROVE 200-4	103.53	108.80	110.93		111.24	0.009148	2.46	42.03	39.19	0.76
TATTERA	9	100-4	82.62	108.80	110.83		111.07	0.007795	2.16	38.17	38.34	0.69
TATTERA	9	30-4	60.54	108.80	110.68		110.86	0.007123	1.88	32.28	37.62	0.65
TATTERA	8	DROVE 200-4	102.58	107.28	109.99		110.15	0.004379	1.74	58.91	56.58	0.53
TATTERA	8	100-4	75.23	107.28	109.88		109.98	0.003115	1.43	52.60	49.79	0.44
TATTERA	8	30-4	69.53	107.28	109.71		109.84	0.004293	1.56	44.67	47.38	0.51
TATTERA	7.9	DROVE 200-4	114.49	106.13	109.57		109.69	0.002087	1.65	78.37	63.33	0.38
TATTERA	7.9	100-4	96.99	106.13	109.43		109.54	0.002116	1.58	69.35	63.09	0.38
TATTERA	7.9	30-4	68.70	106.13	109.25		109.33	0.001697	1.32	58.19	62.79	0.34
TATTERA	7.5		Culvert									
TATTERA	7.1	DROVE 200-4	128.56	106.13	108.92	109.01	109.51	0.015296	3.42	38.59	45.88	0.97
TATTERA	7.1	100-4	105.96	106.13	108.81	108.75	109.30	0.014253	3.11	34.16	33.76	0.93
TATTERA	7.1	30-4	91.00	106.13	108.61	108.61	109.13	0.017311	3.20	28.46	27.63	1.01
TATTERA	6.9	DROVE 200-4	113.79	105.40	108.78	107.95	108.85	0.001636	1.22	93.21	69.95	0.34
TATTERA	6.9	100-4	98.44	105.40	108.66	107.85	108.73	0.001649	1.16	85.17	69.69	0.33
TATTERA	6.9	30-4	80.33	105.40	108.54	107.69	108.59	0.001578	1.05	76.33	69.40	0.32
TATTERA	6.5		Bridge									
TATTERA	6.1	DROVE 200-4	113.70	105.40	108.38		108.53	0.005160	1.74	65.50	68.15	0.56
TATTERA	6.1	100-4	96.97	105.40	108.16		108.34	0.007509	1.90	51.05	61.24	0.66
TATTERA	6.1	30-4	80.60	105.40	107.86		108.12	0.011411	2.26	35.67	44.83	0.81
TATTERA	5	DROVE 200-4	113.39	104.52	107.76		108.38	0.009557	3.49	32.45	16.68	0.80
TATTERA	5	100-4	96.95	104.52	107.55		108.12	0.009712	3.34	28.99	16.29	0.80
TATTERA	5	30-4	79.08	104.52	107.25		107.79	0.010717	3.26	24.26	15.32	0.83
TATTERA	4.9		Lat Struct									
TATTERA	4	DROVE 200-4	110.84	103.89	107.62		107.78	0.002012	1.79	61.87	28.25	0.39
TATTERA	4	100-4	96.92	103.89	107.35		107.51	0.002240	1.78	54.34	27.14	0.40
TATTERA	4	30-4	77.85	103.89	106.97		107.13	0.002592	1.75	44.51	25.63	0.42
TATTERA	3.9	DROVE 200-4	110.87	102.52	107.26	106.32	107.70	0.005691	2.94	37.74	13.84	0.57
TATTERA	3.9	100-4	96.92	102.52	107.01	106.14	107.42	0.005723	2.82	34.36	13.60	0.57
TATTERA	3.9	30-4	77.78	102.52	106.69	105.89	107.03	0.005481	2.59	30.03	13.29	0.55
TATTERA	3.5		Bridge									
TATTERA	3.1	DROVE 200-4	110.87	102.52	106.78		107.42	0.009992	3.56	31.15	13.37	0.74
TATTERA	3.1	100-4	96.92	102.52	106.58		107.17	0.009848	3.39	28.59	13.18	0.73
TATTERA	3.1	30-4	76.65	102.52	106.18		106.73	0.011330	3.29	23.32	12.79	0.78
TATTERA	2.9		Lat Struct									
TATTERA	2.8		Lat Struct									

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	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
TATTERA	2	DROVE 200-4	110.80	102.56	106.73		106.78	0.000372	0.96	115.60	39.51	0.18
TATTERA	2	100-4	96.91	102.56	106.51		106.55	0.000358	0.91	107.01	38.75	0.17
TATTERA	2	30-4	75.63	102.56	106.02		106.05	0.000400	0.86	88.23	37.77	0.18
TATTERA	1.1	DROVE 200-4	109.89	102.12	106.70		106.76	0.000431	1.10	99.00	30.00	0.19
TATTERA	1.1	100-4	96.91	102.12	106.48		106.54	0.000414	1.04	92.47	30.00	0.19
TATTERA	1.1	30-4	75.63	102.12	105.99		106.04	0.000419	0.98	77.99	29.18	0.19
TATTERA	1	DROVE 200-4	109.89	102.12	106.70		106.76	0.000431	1.10	98.99	30.00	0.19
TATTERA	1	100-4	96.91	102.12	106.48		106.54	0.000414	1.04	92.45	30.00	0.19
TATTERA	1	30-4	75.63	102.12	105.99		106.04	0.000419	0.98	77.97	29.18	0.19
CINCIANO	15	DROVE 200-4	104.62	106.71	109.72	109.64	110.57	0.013391	4.07	25.71	13.53	0.94
CINCIANO	15	100-4	87.82	106.71	109.48	109.41	110.26	0.013660	3.89	22.55	12.94	0.94
CINCIANO	15	30-4	63.59	106.71	109.09	109.03	109.75	0.014467	3.61	17.62	11.96	0.95
CINCIANO	14	DROVE 200-4	103.85	105.91	109.22		109.46	0.006100	2.18	47.69	37.90	0.62
CINCIANO	14	100-4	87.76	105.91	108.83		109.15	0.008372	2.52	34.86	27.66	0.72
CINCIANO	14	30-4	63.55	105.91	108.28		108.66	0.009299	2.71	23.47	17.62	0.75
CINCIANO	13.9		Lat Struct									
CINCIANO	13	DROVE 200-4	103.90	104.67	108.81		109.04	0.002633	2.10	49.48	21.02	0.44
CINCIANO	13	100-4	86.52	104.67	108.31		108.56	0.003615	2.21	39.22	20.07	0.50
CINCIANO	13	30-4	63.50	104.67	107.59		107.90	0.005799	2.45	25.88	16.15	0.62
CINCIANO	12.9	DROVE 200-4	103.90	104.66	108.91	107.43	109.00	0.001219	1.30	79.66	42.59	0.30
CINCIANO	12.9	100-4	86.52	104.66	108.41	107.25	108.51	0.001807	1.45	59.58	36.39	0.36
CINCIANO	12.9	30-4	63.50	104.66	107.66	106.91	107.82	0.003627	1.77	35.85	27.30	0.49
CINCIANO	12.5		Bridge									
CINCIANO	12.1	DROVE 200-4	103.90	104.66	108.60		108.72	0.001926	1.55	66.90	38.77	0.38
CINCIANO	12.1	100-4	86.52	104.66	108.19		108.33	0.002554	1.66	52.18	33.82	0.43
CINCIANO	12.1	30-4	63.50	104.66	107.59		107.77	0.004187	1.87	33.89	26.42	0.53
CINCIANO	11	DROVE 200-4	103.90	104.43	108.52		108.71	0.002991	1.97	52.71	28.05	0.46
CINCIANO	11	100-4	86.52	104.43	108.11		108.32	0.003277	2.04	42.47	22.76	0.48
CINCIANO	11	30-4	63.50	104.43	107.55		107.75	0.002880	2.00	31.68	15.33	0.44
CINCIANO	10.9	DROVE 200-4	103.90	104.21	108.13	107.23	108.69	0.006657	3.31	31.41	10.38	0.61
CINCIANO	10.9	100-4	86.52	104.21	107.80	106.97	108.29	0.006384	3.09	27.99	10.27	0.60
CINCIANO	10.9	30-4	63.50	104.21	107.33	106.60	107.71	0.005885	2.74	23.18	10.11	0.58
CINCIANO	10.5		Bridge									
CINCIANO	10.1	DROVE 200-4	103.89	104.21	107.61		108.42	0.011282	3.99	26.05	10.21	0.80
CINCIANO	10.1	100-4	86.43	104.21	107.50		108.11	0.008884	3.47	24.90	10.17	0.71
CINCIANO	10.1	30-4	60.55	104.21	107.12		107.54	0.007090	2.88	21.03	10.04	0.64
CINCIANO	10.09		Lat Struct									
CINCIANO	9	DROVE 200-4	103.90	104.21	107.98		108.33	0.004587	2.64	39.41	17.82	0.57
CINCIANO	9	100-4	86.50	104.21	107.77		108.07	0.004306	2.42	35.79	17.64	0.54
CINCIANO	9	30-4	60.49	104.21	107.28		107.52	0.003210	2.13	28.33	13.24	0.47
CINCIANO	8	DROVE 200-4	96.02	103.05	107.77		108.02	0.003290	2.19	43.83	19.73	0.47
CINCIANO	8	100-4	83.96	103.05	107.47		107.72	0.003702	2.20	38.09	18.69	0.49
CINCIANO	8	30-4	60.06	103.05	106.89		107.13	0.004580	2.17	27.71	16.65	0.54
CINCIANO	7.9	DROVE 200-4	96.03	103.59	107.89	106.28	108.00	0.001108	1.49	65.55	28.05	0.30
CINCIANO	7.9	100-4	83.97	103.59	107.59	106.07	107.70	0.001236	1.49	57.40	26.68	0.31
CINCIANO	7.9	30-4	59.75	103.59	107.00	105.69	107.10	0.001494	1.42	42.47	23.95	0.33
CINCIANO	7.5		Bridge									
CINCIANO	7.1	DROVE 200-4	96.03	103.59	107.73		107.86	0.001346	1.60	61.22	27.33	0.33
CINCIANO	7.1	100-4	83.96	103.59	107.48		107.60	0.001429	1.56	54.56	26.18	0.33
CINCIANO	7.1	30-4	59.75	103.59	106.97		107.08	0.001565	1.44	41.79	23.82	0.34
CINCIANO	6.9	DROVE 200-4	96.02	103.68	107.67	106.31	107.85	0.001902	1.88	51.18	19.34	0.37
CINCIANO	6.9	100-4	83.96	103.68	107.43	106.14	107.60	0.001932	1.80	46.55	19.14	0.37
CINCIANO	6.9	30-4	59.56	103.68	106.94	105.68	107.07	0.001914	1.60	37.23	18.74	0.36
CINCIANO	6.5		Bridge									
CINCIANO	6.1	DROVE 200-4	96.01	103.68	107.50		107.71	0.002315	2.00	47.93	19.20	0.40
CINCIANO	6.1	100-4	83.94	103.68	107.32		107.50	0.002214	1.89	44.49	19.06	0.39
CINCIANO	6.1	30-4	59.56	103.68	106.90		107.04	0.002021	1.63	36.58	18.71	0.37
CINCIANO	6.09		Lat Struct									
CINCIANO	6.08		Lat Struct									
CINCIANO	5	DROVE 200-4	95.90	103.29	107.33		107.71	0.004593	2.73	35.17	14.71	0.56
CINCIANO	5	100-4	83.90	103.29	107.17		107.50	0.004304	2.55	32.86	14.71	0.55
CINCIANO	5	30-4	59.47	103.29	106.80		107.04	0.003477	2.16	27.56	13.69	0.49
CINCIANO	4	DROVE 200-4	86.85	102.83	107.30		107.58	0.003611	2.36	36.76	13.80	0.46
CINCIANO	4	100-4	79.31	102.83	107.07		107.35	0.003933	2.36	33.60	13.80	0.48
CINCIANO	4	30-4	59.76	102.83	106.62		106.86	0.004008	2.18	27.45	13.42	0.49

HEC-RAS Profile: Max WS (Continued)

Reach	River Sta	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
CINCIANO	3.9	DROVE 200-4	89.84	102.98	107.12	106.07	107.50	0.005278	2.73	32.85	14.50	0.58
CINCIANO	3.9	100-4	71.54	102.98	106.89	105.73	107.19	0.004365	2.41	29.63	13.62	0.52
CINCIANO	3.9	30-4	59.41	102.98	106.51	105.48	106.81	0.004562	2.39	24.83	11.77	0.53
CINCIANO	3.5	Bridge										
CINCIANO	3.1	DROVE 200-4	89.79	102.98	106.44		107.16	0.011145	3.74	24.00	11.31	0.82
CINCIANO	3.1	100-4	81.63	102.98	106.24		106.95	0.011480	3.75	21.77	10.34	0.83
CINCIANO	3.1	30-4	63.25	102.98	105.81		106.47	0.012154	3.59	17.61	9.37	0.84
CINCIANO	3.09	Lat Struct										
CINCIANO	3.08	Lat Struct										
CINCIANO	2	DROVE 200-4	89.78	102.49	106.71		106.81	0.000877	1.36	65.78	23.53	0.26
CINCIANO	2	100-4	81.62	102.49	106.50		106.59	0.000937	1.34	60.72	23.53	0.27
CINCIANO	2	30-4	63.25	102.49	106.02		106.10	0.001076	1.28	49.53	23.29	0.28
CINCIANO	1	DROVE 200-4	89.19	102.05	106.68		106.76	0.000662	1.24	71.77	24.24	0.23
CINCIANO	1	100-4	81.62	102.05	106.46		106.54	0.000708	1.23	66.44	24.24	0.24
CINCIANO	1	30-4	63.20	102.05	105.98		106.05	0.000764	1.15	54.92	23.47	0.24
CINCIANO	0.6	DROVE 200-4	85.28	102.03	106.67		106.74	0.000567	1.05	75.32	26.32	0.20
CINCIANO	0.6	100-4	80.95	102.03	106.44		106.51	0.000663	1.08	69.22	26.32	0.22
CINCIANO	0.6	30-4	63.12	102.03	105.96		106.02	0.000614	1.09	57.35	22.55	0.21
CINCIANO	0.5	DROVE 200-4	85.28	102.03	106.67		106.74	0.000567	1.05	75.31	26.32	0.20
CINCIANO	0.5	100-4	80.95	102.03	106.44		106.51	0.000664	1.08	69.20	26.32	0.22
CINCIANO	0.5	30-4	63.12	102.03	105.96		106.02	0.000615	1.10	57.34	22.55	0.21
VALLE	17.5	DROVE 200-4	195.04	101.77	105.88		106.62	0.008304	3.83	50.96	20.57	0.78
VALLE	17.5	100-4	177.86	101.77	105.63		106.39	0.009296	3.87	45.91	20.01	0.82
VALLE	17.5	30-4	138.91	101.77	105.26		105.91	0.008400	3.57	38.88	17.72	0.77
VALLE	17.49	DROVE 200-4	195.03	101.77	105.86		106.62	0.008476	3.86	50.57	20.51	0.78
VALLE	17.49	100-4	177.86	101.77	105.61		106.39	0.009557	3.91	45.48	19.96	0.83
VALLE	17.49	30-4	138.91	101.77	105.24		105.91	0.008593	3.60	38.55	17.65	0.78
VALLE	17.489	Lat Struct										
VALLE	17.488	Lat Struct										
VALLE	17.48	Lat Struct										
VALLE	17	DROVE 200-4	203.16	100.53	104.67		105.34	0.008211	3.67	56.89	29.18	0.78
VALLE	17	100-4	177.41	100.53	104.47		105.10	0.008674	3.56	50.97	29.18	0.80
VALLE	17	30-4	138.72	100.53	104.18		104.72	0.008881	3.27	42.69	26.71	0.79
VALLE	16.9	Lat Struct										
VALLE	16	DROVE 200-4	177.22	99.47	104.28		104.69	0.004048	2.85	62.21	21.21	0.53
VALLE	16	100-4	152.77	99.47	104.10		104.45	0.003619	2.61	58.54	21.21	0.50
VALLE	16	30-4	128.22	99.47	103.82		104.12	0.003556	2.44	52.50	21.21	0.50
VALLE	15.9	Lat Struct										
VALLE	15	DROVE 200-4	189.67	98.80	103.86		104.37	0.004764	3.16	60.02	20.43	0.59
VALLE	15	100-4	176.71	98.80	103.59		104.13	0.005561	3.25	54.42	20.43	0.64
VALLE	15	30-4	151.15	98.80	103.29		103.79	0.005745	3.13	48.33	20.05	0.64
VALLE	14	DROVE 200-4	193.33	98.44	103.23		103.92	0.006790	3.69	52.43	18.44	0.70
VALLE	14	100-4	175.17	98.44	102.94		103.64	0.007509	3.71	47.16	17.92	0.73
VALLE	14	30-4	151.00	98.44	102.51		103.25	0.009281	3.81	39.59	17.35	0.81
VALLE	13.8	Lat Struct										
VALLE	13	DROVE 200-4	220.37	97.60	102.12		102.79	0.008038	3.64	60.56	26.83	0.77
VALLE	13	100-4	192.83	97.60	102.01		102.58	0.007190	3.35	57.54	26.65	0.73
VALLE	13	30-4	147.99	97.60	101.78		102.20	0.005736	2.87	51.53	25.55	0.65
VALLE	12.9	Lat Struct										
VALLE	12.8	Lat Struct										
VALLE	12	DROVE 200-4	197.69	96.99	101.54		101.89	0.004463	2.75	76.59	40.12	0.56
VALLE	12	100-4	177.06	96.99	101.40		101.73	0.004573	2.69	70.76	39.95	0.56
VALLE	12	30-4	140.66	96.99	101.10		101.41	0.005042	2.60	58.95	39.60	0.58
VALLE	11.9	Lat Struct										
VALLE	11	DROVE 200-4	221.49	96.19	100.84		101.33	0.006152	3.17	74.11	41.49	0.66
VALLE	11	100-4	198.14	96.19	100.69		101.16	0.006358	3.09	67.80	41.16	0.67
VALLE	11	30-4	155.51	96.19	100.33		100.79	0.007571	3.02	53.33	40.38	0.71
VALLE	10.9	Lat Struct										
VALLE	10	DROVE 200-4	221.29	95.83	100.26		100.95	0.008074	3.96	64.56	40.60	0.76
VALLE	10	100-4	198.08	95.83	100.08	100.12	100.79	0.008885	4.00	57.38	39.17	0.79
VALLE	10	30-4	155.42	95.83	99.79	99.88	100.49	0.009509	3.89	45.87	38.48	0.81
VALLE	9	DROVE 200-4	246.13	95.07	99.86		100.01	0.001323	1.80	150.56	78.00	0.34
VALLE	9	100-4	210.93	95.07	99.60		99.74	0.001451	1.77	129.87	75.02	0.35

HEC-RAS Profile: Max WS (Continued)

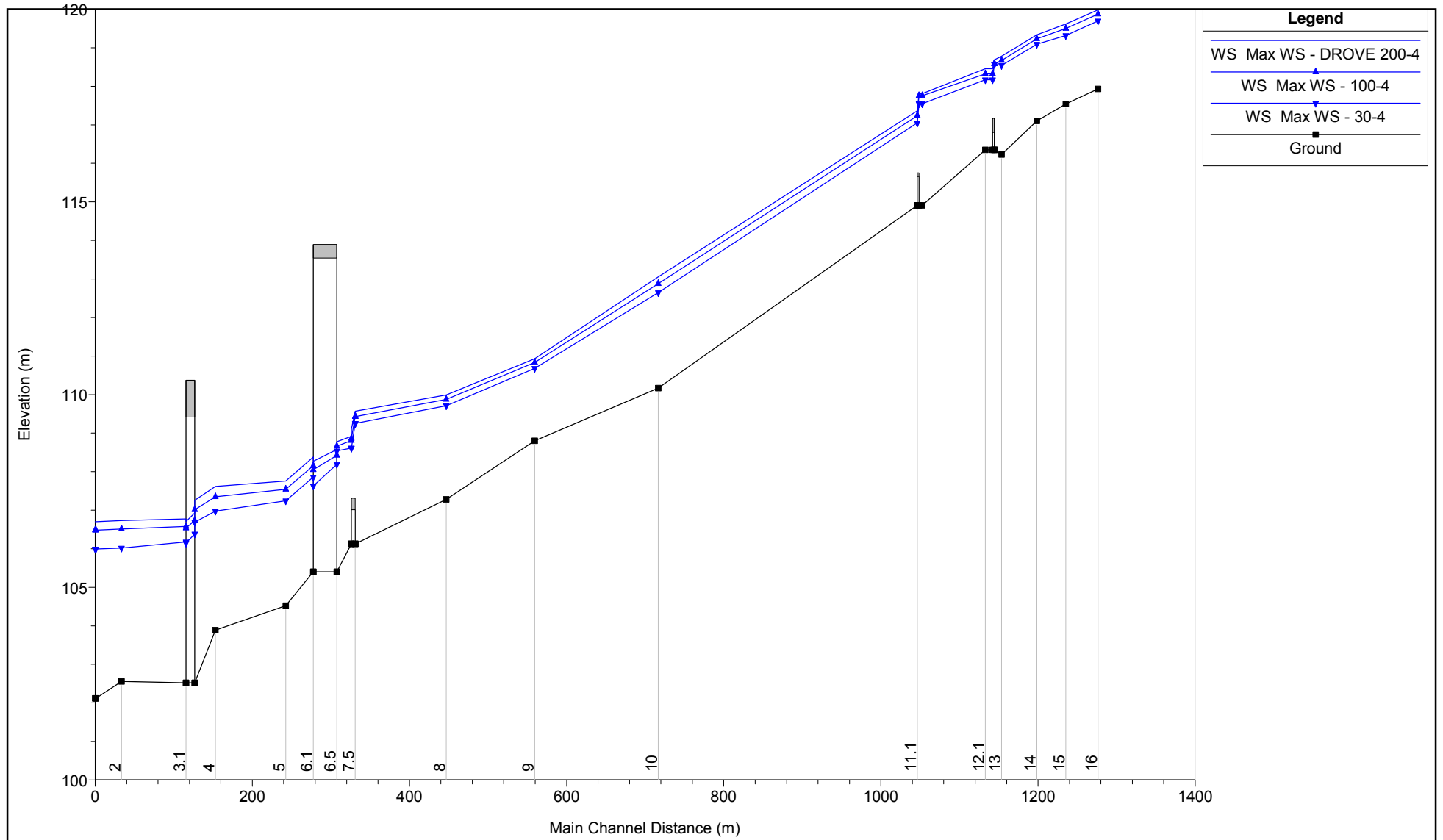
Reach	River Sta	Plan	Q Total (m <sup>3</sup> /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m <sup>2</sup> )	Top Width (m)	Froude # Chl
VALLE	9	30-4	156.77	95.07	99.00		99.16	0.002166	1.84	90.49	59.49	0.41
VALLE	8	DROVE 200-4	245.26	93.00	99.55		99.87	0.002034	2.56	102.86	33.60	0.37
VALLE	8	100-4	210.92	93.00	99.32		99.59	0.001812	2.35	95.21	33.44	0.34
VALLE	8	30-4	156.70	93.00	98.77		98.98	0.001555	2.04	77.83	26.39	0.32
VALLE	7.9		Lat Struct									
VALLE	7	DROVE 200-4	234.68	92.80	97.12		98.11	0.011001	4.41	53.25	22.47	0.91
VALLE	7	100-4	207.22	92.80	96.90		97.83	0.011112	4.29	48.34	21.45	0.91
VALLE	7	30-4	156.44	92.80	96.52		97.28	0.010141	3.86	40.56	19.70	0.86
VALLE	6.8		Lat Struct									
VALLE	6	DROVE 200-4	177.41	92.00	96.92		97.15	0.001824	2.14	82.92	25.23	0.38
VALLE	6	100-4	184.70	92.00	96.42		96.77	0.003268	2.63	70.33	25.23	0.50
VALLE	6	30-4	152.35	92.00	96.03		96.36	0.003525	2.52	60.57	25.23	0.52
VALLE	5	DROVE 200-4	142.36	91.50	96.89		97.11	0.001528	2.11	71.79	23.48	0.34
VALLE	5	100-4	156.40	91.50	96.23		96.65	0.003623	2.94	56.14	23.48	0.52
VALLE	5	30-4	142.29	91.50	95.39		96.10	0.008123	3.74	38.44	18.05	0.76
VALLE	4.1	DROVE 200-4	223.35	91.00	96.75	94.11	96.87	0.000703	1.60	146.59	40.33	0.25
VALLE	4.1	100-4	204.80	91.00	96.16	93.98	96.31	0.001001	1.75	122.98	40.33	0.29
VALLE	4.1	30-4	154.54	91.00	95.37	93.61	95.53	0.001359	1.76	91.14	40.04	0.33
VALLE	4.05		Bridge									
VALLE	4	DROVE 200-4	223.35	91.00	96.23		96.40	0.001115	1.87	125.71	40.33	0.31
VALLE	4	100-4	202.56	91.00	95.68		95.89	0.001619	2.05	103.64	40.33	0.36
VALLE	4	30-4	151.41	91.00	95.06		95.26	0.001949	1.97	78.76	39.33	0.39
VALLE	3	DROVE 200-4	223.33	91.10	96.20		96.39	0.001527	1.96	113.90	37.53	0.36
VALLE	3	100-4	202.55	91.10	95.64		95.88	0.002254	2.17	93.34	35.58	0.43
VALLE	3	30-4	151.41	91.10	95.02		95.24	0.002720	2.10	71.98	33.28	0.46
VALLE	2.9		Lat Struct									
VALLE	2	DROVE 200-4	220.30	90.55	96.13		96.33	0.001105	2.12	114.47	34.84	0.33
VALLE	2	100-4	202.59	90.55	95.54		95.78	0.001560	2.28	95.47	30.69	0.38
VALLE	2	30-4	151.42	90.55	94.92		95.13	0.001649	2.08	77.16	29.05	0.38
VALLE	1.1	DROVE 200-4	216.83	89.30	96.23		96.27	0.000185	0.87	250.86	62.48	0.13
VALLE	1.1	100-4	202.60	89.30	95.65		95.70	0.000257	0.94	215.33	57.05	0.15
VALLE	1.1	30-4	151.37	89.30	95.01		95.05	0.000246	0.84	179.63	54.55	0.15
VALLE	1	DROVE 200-4	216.82	89.30	96.23	92.61	96.27	0.000185	0.87	250.84	62.48	0.13
VALLE	1	100-4	202.60	89.30	95.65	92.54	95.70	0.000257	0.94	215.31	57.05	0.15
VALLE	1	30-4	151.36	89.30	95.01	92.29	95.05	0.000246	0.84	179.61	54.55	0.15

HEC-RAS Profile: Max WS

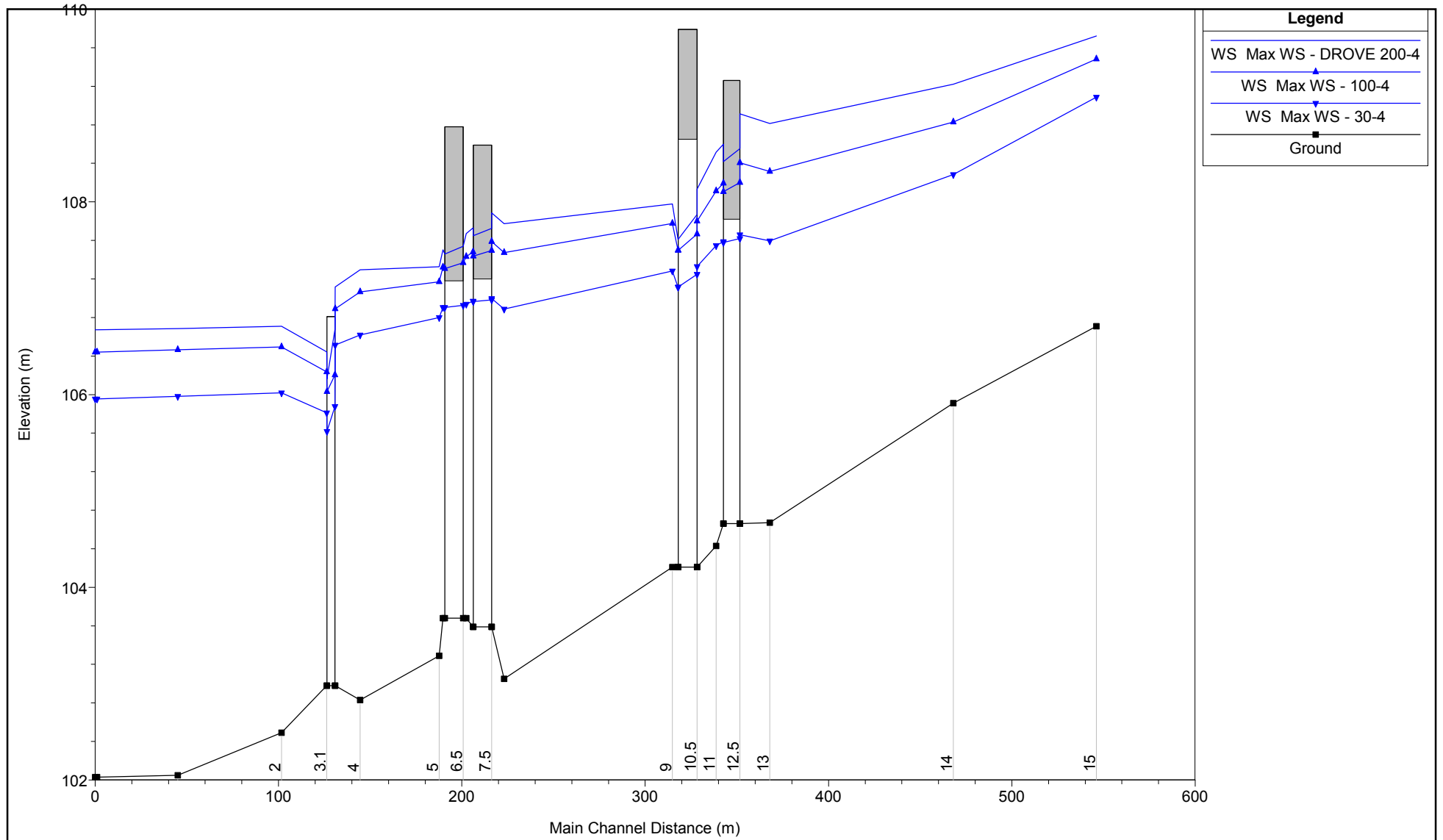
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
DROVE 1	DROVE 200-4	107.60	103.40	1.86	11.62	4.26
DROVE 1	100-4	104.10	103.40	0.01	0.01	0.01
DROVE 1	30-4	103.40	103.40	0.00	0.01	0.00
DROVE 10	DROVE 200-4	104.46	100.00	8.34	6.88	6.43
DROVE 10	100-4	104.27	100.00	3.49	6.10	5.23
DROVE 10	30-4	103.96	100.00	1.91	4.70	3.51
DROVE 11	DROVE 200-4	103.61	99.90	1.96	18.83	24.30
DROVE 11	100-4	103.51	99.90	0.34	18.83	22.42
DROVE 11	30-4	103.19	99.90	2.42	17.73	16.54
DROVE 12	DROVE 200-4	100.99	98.90	0.40	4.64	2.87
DROVE 12	100-4	100.68	98.90	0.28	3.58	1.59
DROVE 12	30-4	100.37	98.90	-0.03	2.16	0.65
DROVE 13	DROVE 200-4	101.50	101.50	0.00	0.02	0.00
DROVE 13	100-4	101.50	101.50	0.00	0.02	0.00
DROVE 13	30-4	101.50	101.50	0.00	0.02	0.00
DROVE 14	DROVE 200-4	100.07	97.90	7.00	46.39	34.09
DROVE 14	100-4	99.83	97.90	6.62	42.91	23.22
DROVE 14	30-4	99.45	97.90	1.47	30.80	8.78
DROVE 15	DROVE 200-4	101.82	97.00	10.82	22.35	19.57
DROVE 15	100-4	101.69	97.00	10.93	21.78	16.66
DROVE 15	30-4	101.42	97.00	9.84	21.78	10.81
DROVE 16	DROVE 200-4	98.90	98.90	0.00	0.02	0.00
DROVE 16	100-4	98.90	98.90	0.00	0.02	0.00
DROVE 16	30-4	98.90	98.90	0.00	0.02	0.00
DROVE 17	DROVE 200-4	96.91	94.00	9.17	80.58	49.62
DROVE 17	100-4	96.58	94.00	2.56	51.92	26.39
DROVE 17	30-4	95.73	94.00	0.67	9.05	1.70
DROVE 18	DROVE 200-4	96.87	93.60	3.87	11.66	19.26
DROVE 18	100-4	96.23	93.60	5.31	10.77	11.97
DROVE 18	30-4	95.39	93.60	3.14	6.72	3.93
DROVE 19	DROVE 200-4	96.90	94.70	0.12	11.07	7.47
DROVE 19	100-4	96.57	94.70	0.57	6.43	4.19
DROVE 19	30-4	95.71	94.70	0.14	2.52	0.50
DROVE 2	DROVE 200-4	107.30	106.06	0.88	2.96	1.74
DROVE 2	100-4	107.10	106.06	0.27	2.96	1.15
DROVE 2	30-4	106.45	106.06	0.48	0.14	0.04
DROVE 20	DROVE 200-4	96.15	94.60	0.21	5.05	1.29
DROVE 20	100-4	95.75	94.60	0.13	1.40	0.18
DROVE 20	30-4	94.60	94.60	0.00	0.00	0.00
DROVE 21	DROVE 200-4	95.77	92.90	3.41	32.04	6.13
DROVE 21	100-4	95.33	92.90	0.41	1.38	1.46
DROVE 21	30-4	92.90	92.90	0.00	0.30	0.00
DROVE 22	DROVE 200-4	94.27	90.50	-0.89	11.85	11.99
DROVE 22	100-4	91.42	90.50	0.24	0.44	0.15
DROVE 22	30-4	90.50	90.50	0.00	0.05	0.00

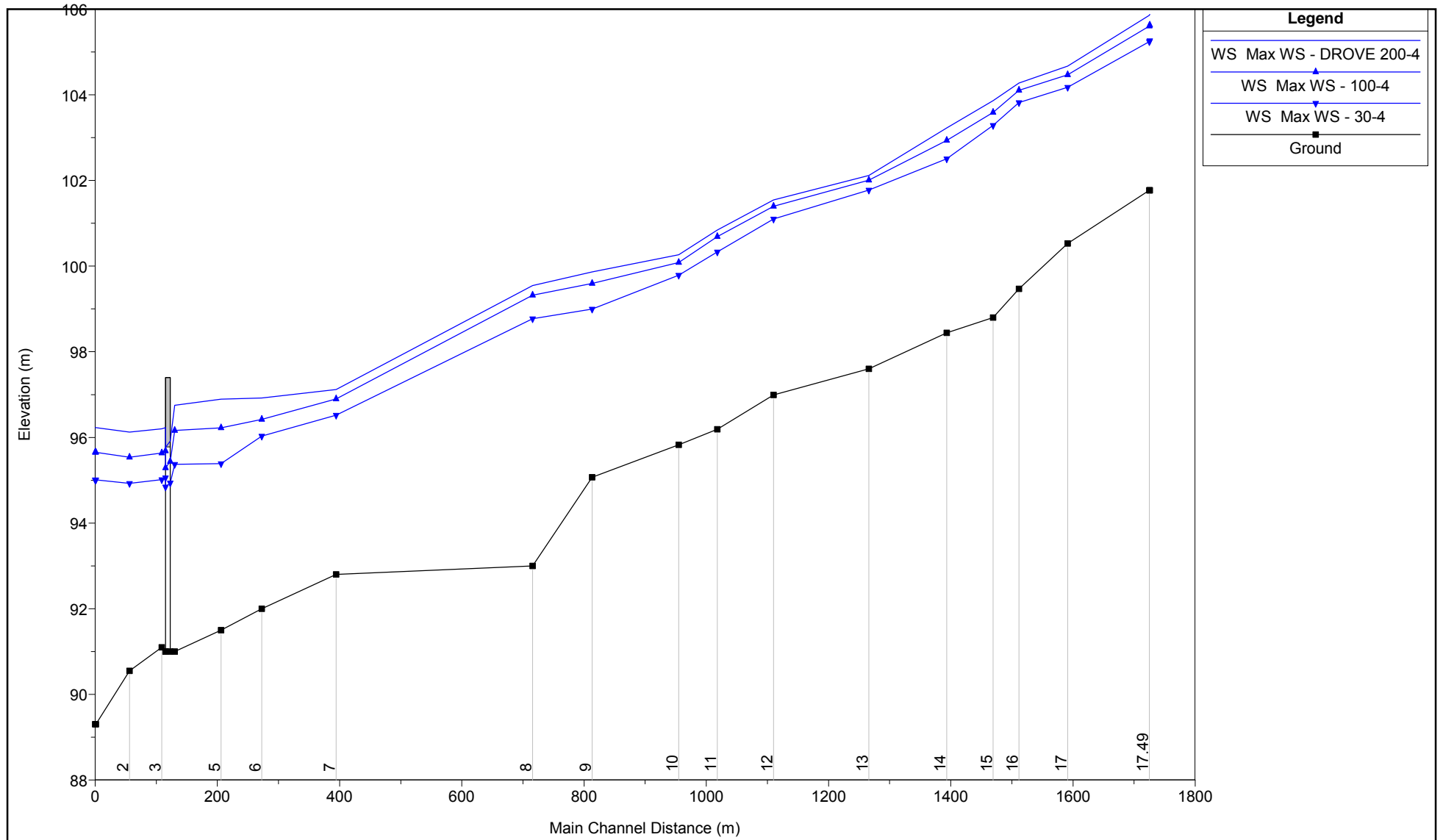
HEC-RAS Profile: Max WS (Continued)

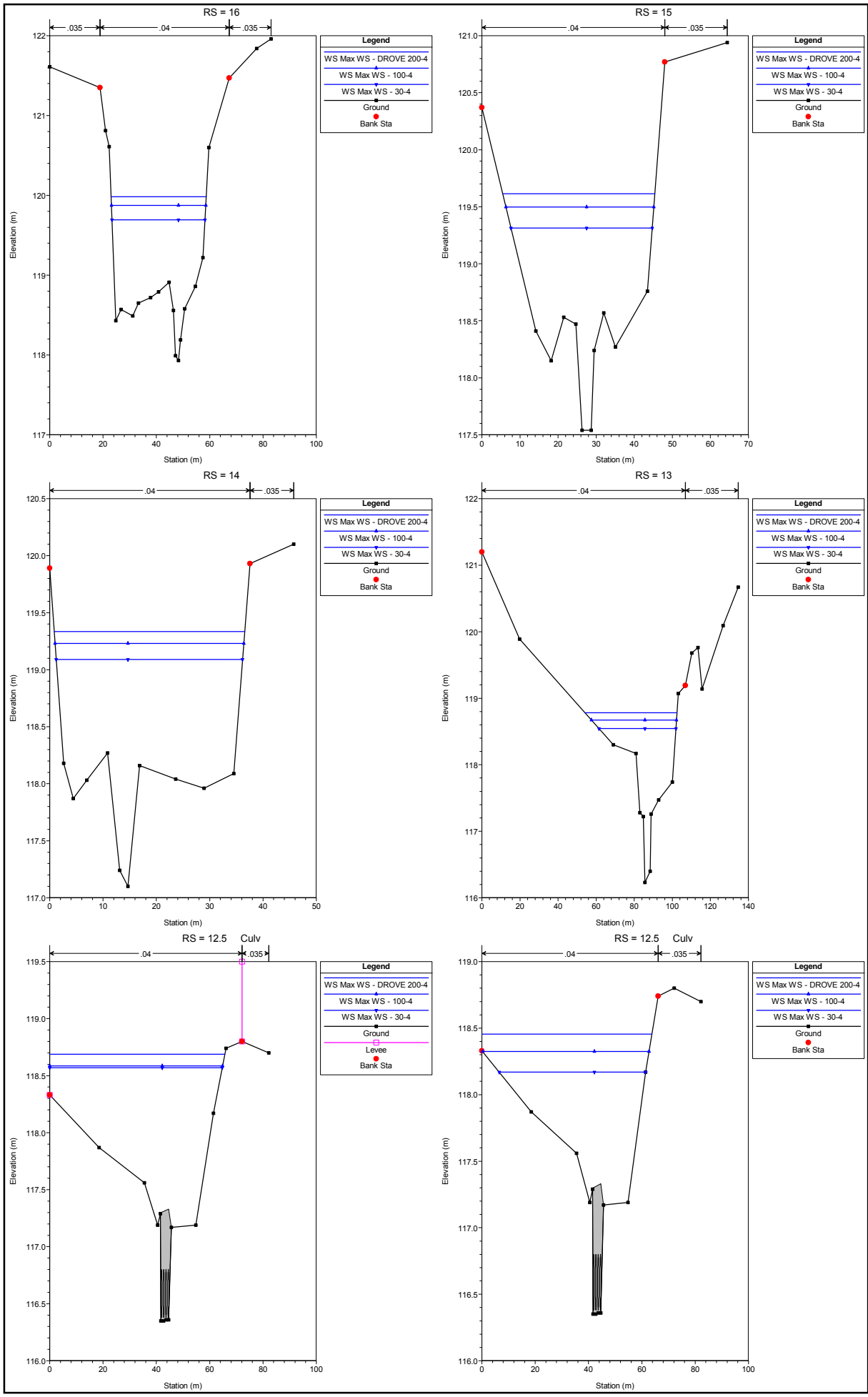
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
DROVE 23	DROVE 200-4	90.33	89.00	16.86	20.77	14.09
DROVE 23	100-4	89.00	89.00	0.00	0.44	0.00
DROVE 23	30-4	89.00	89.00	0.00	0.44	0.00
DROVE 24	DROVE 200-4	90.33	88.40	0.00	15.41	14.03
DROVE 24	100-4	88.40	88.40	0.00	0.04	0.00
DROVE 24	30-4	88.40	88.40	0.00	0.04	0.00
DROVE 25	DROVE 200-4	90.33	84.30	0.00	40.91	35.28
DROVE 25	100-4	84.30	84.30	0.00	0.09	0.00
DROVE 25	30-4	84.30	84.30	0.00	0.09	0.00
DROVE 26	DROVE 200-4	104.81	102.30	0.11	2.91	3.77
DROVE 26	100-4	102.30	102.30	0.00	0.02	0.00
DROVE 26	30-4	102.30	102.30	0.00	0.02	0.00
DROVE 27	DROVE 200-4	100.34	100.00	0.01	0.01	0.00
DROVE 27	100-4	100.00	100.00	0.00	0.01	0.00
DROVE 27	30-4	100.00	100.00	0.00	0.01	0.00
DROVE 3	DROVE 200-4	105.49	101.90	3.35	3.80	2.13
DROVE 3	100-4	104.93	101.90	0.34	0.88	0.79
DROVE 3	30-4	101.90	101.90	0.00	0.00	0.00
DROVE 4	DROVE 200-4	103.53	99.30	7.93	16.48	3.90
DROVE 4	100-4	103.25	99.30	1.57	5.12	2.10
DROVE 4	30-4	102.74	99.30	0.60	1.37	0.96
DROVE 5	DROVE 200-4	106.34	103.00	1.36	14.99	15.56
DROVE 5	100-4	105.86	103.00	2.49	11.83	8.65
DROVE 5	30-4	103.00	103.00	0.00	0.01	0.00
DROVE 6	DROVE 200-4	106.75	105.40	0.23	2.65	1.81
DROVE 6	100-4	106.33	105.40	0.17	2.65	0.69
DROVE 6	30-4	105.40	105.40	0.00	0.03	0.00
DROVE 7	DROVE 200-4	108.89	107.10	5.11	7.29	5.50
DROVE 7	100-4	108.31	107.10	1.18	6.38	1.52
DROVE 7	30-4	107.10	107.10	0.00	0.00	0.00
DROVE 8	DROVE 200-4	106.16	103.50	0.18	3.20	1.63
DROVE 8	100-4	105.72	103.50	0.27	1.12	0.60
DROVE 8	30-4	103.50	103.50	0.00	0.01	0.00
DROVE 9	DROVE 200-4	105.26	103.20	0.09	3.37	2.93
DROVE 9	100-4	104.29	103.20	0.19	1.46	0.54
DROVE 9	30-4	103.20	103.20	0.00	0.05	0.00

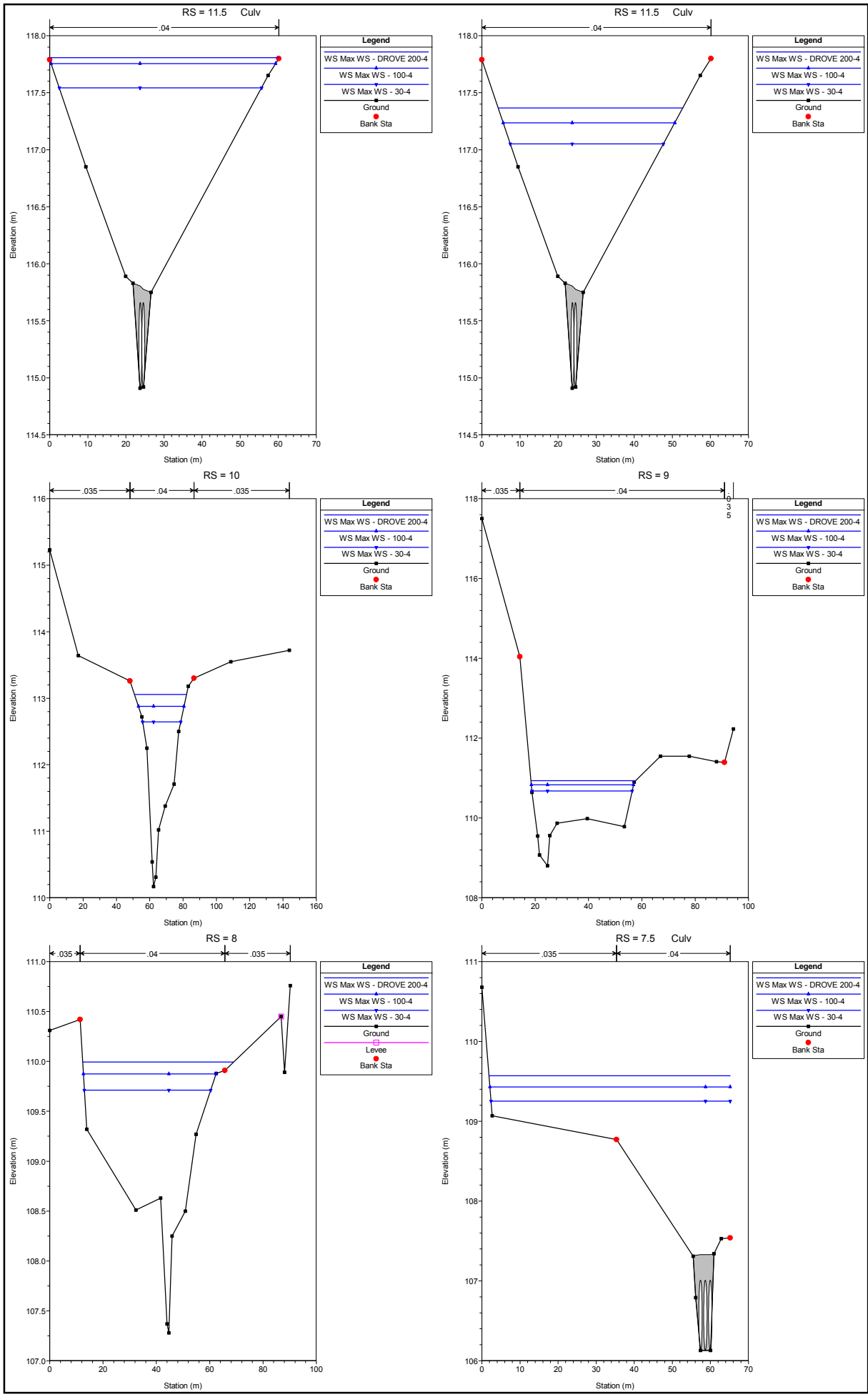


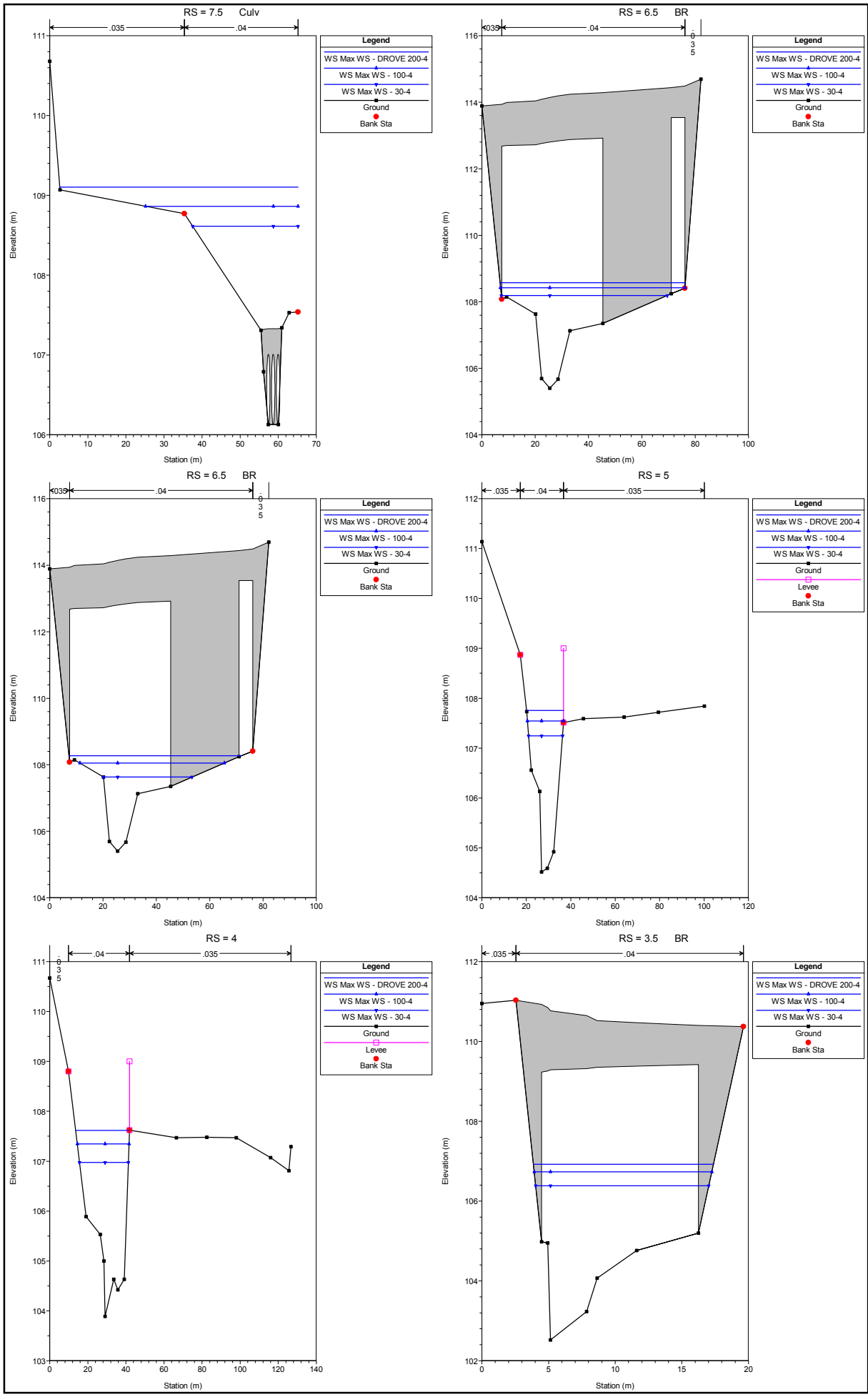


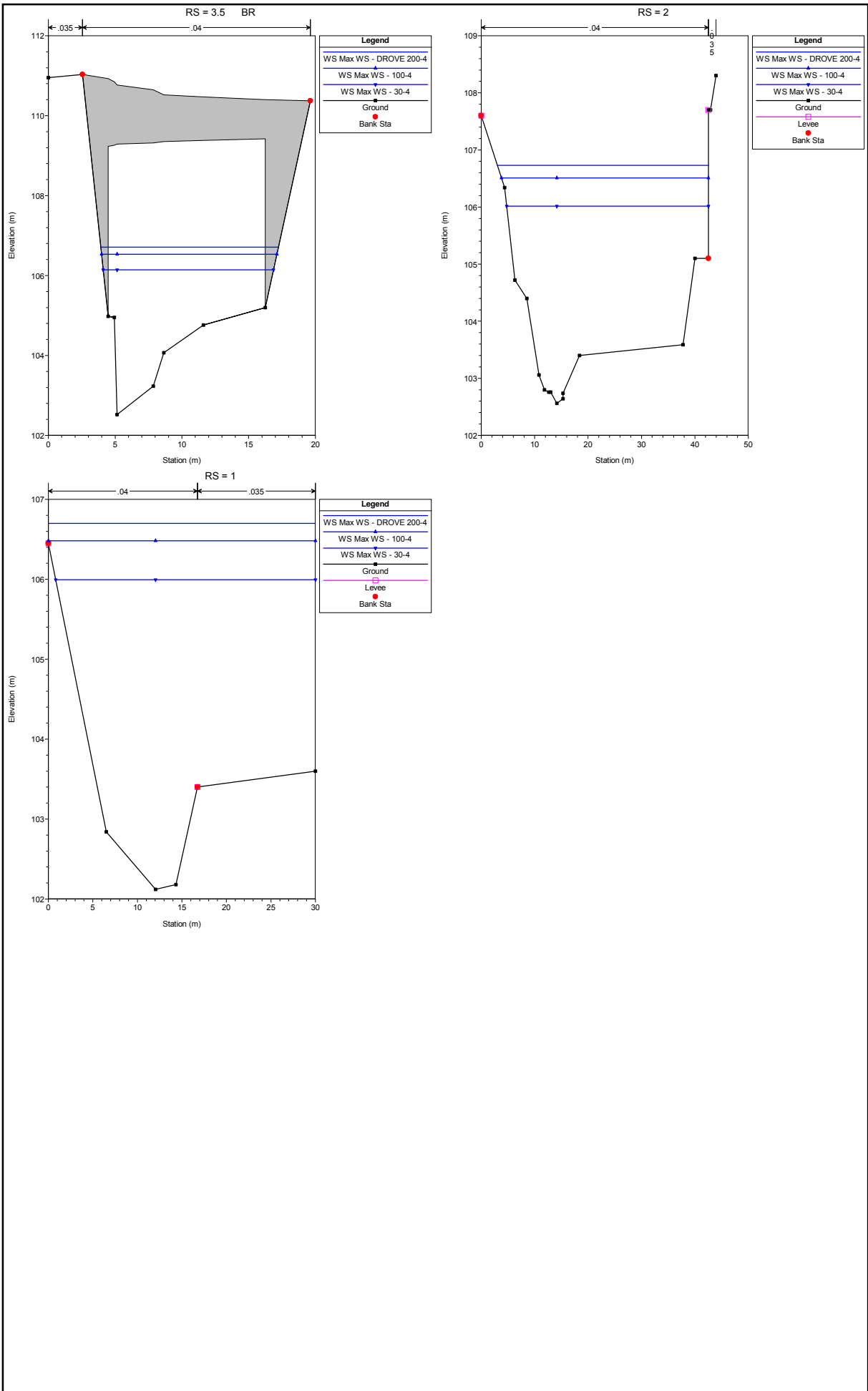


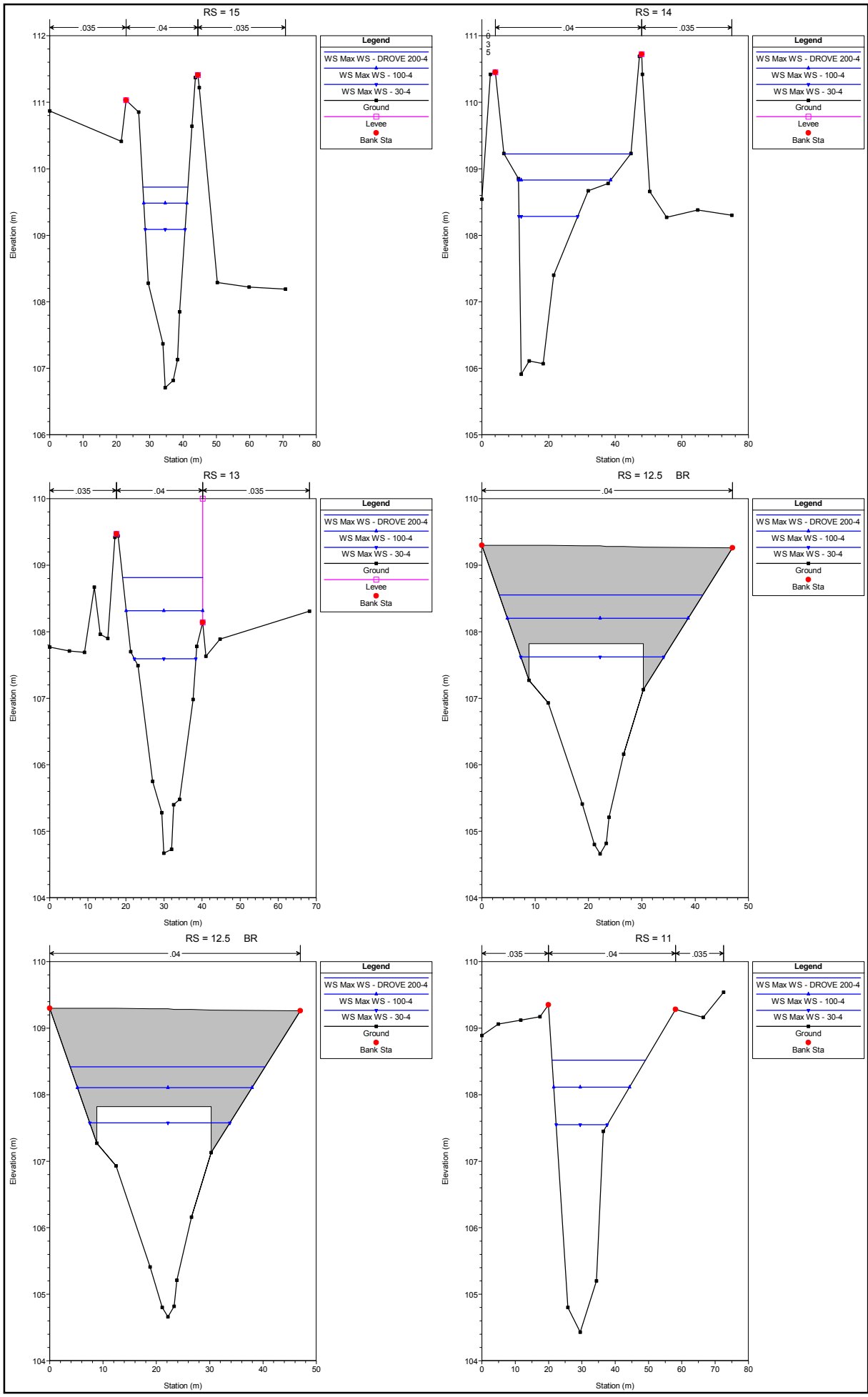


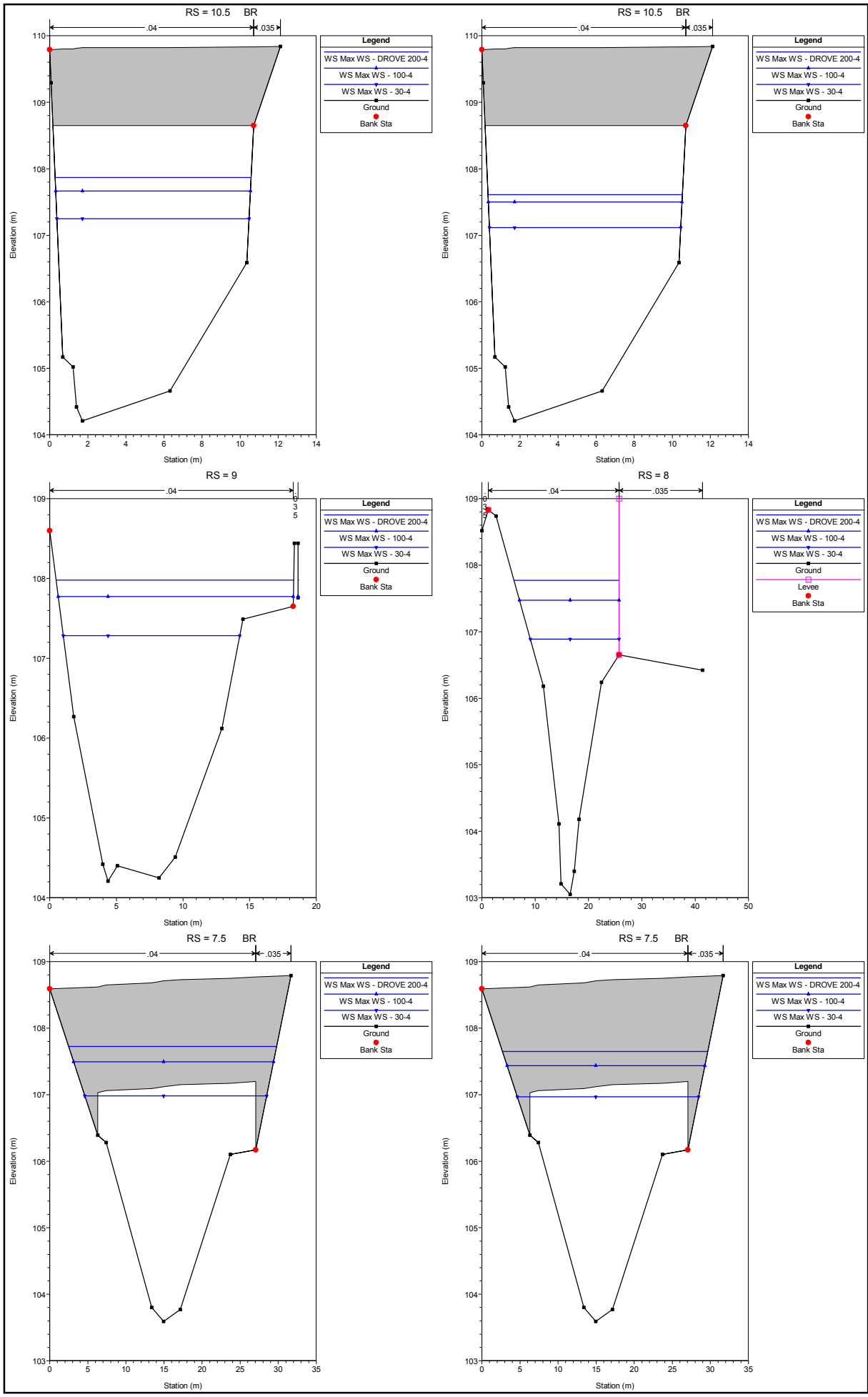




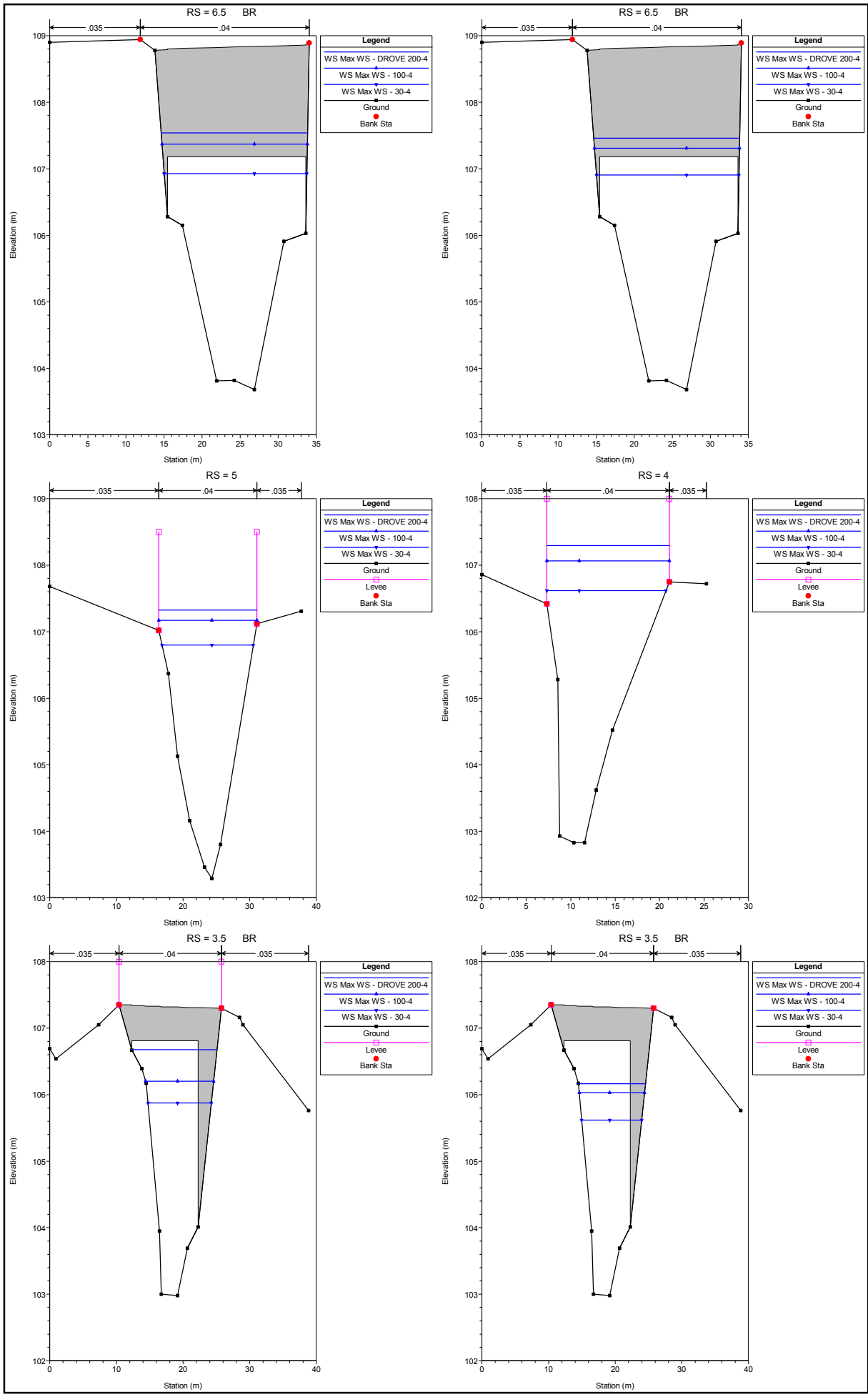


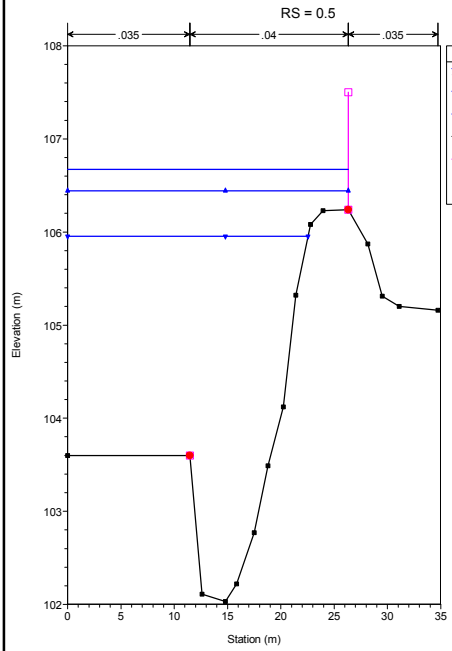
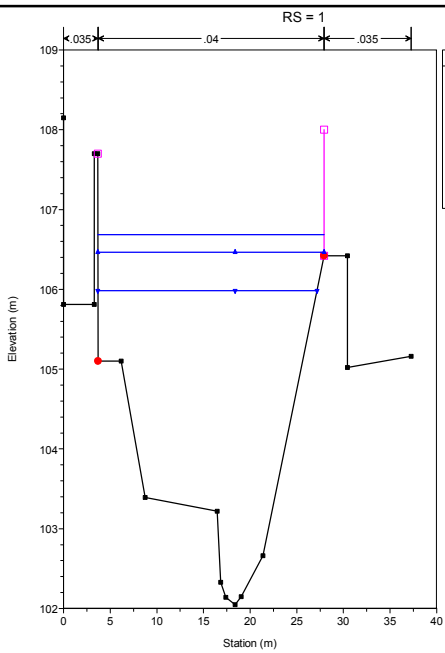
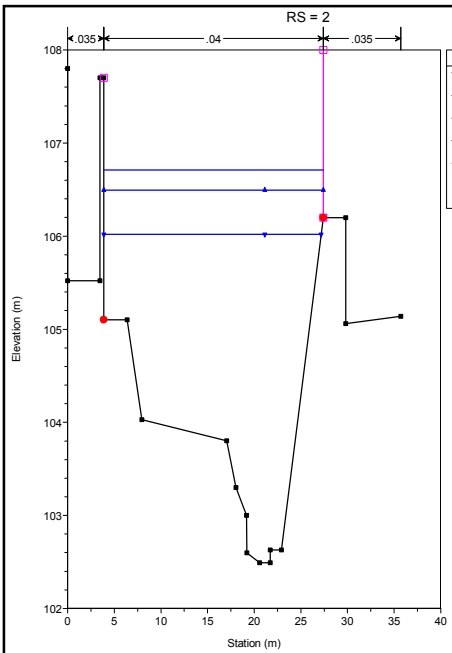


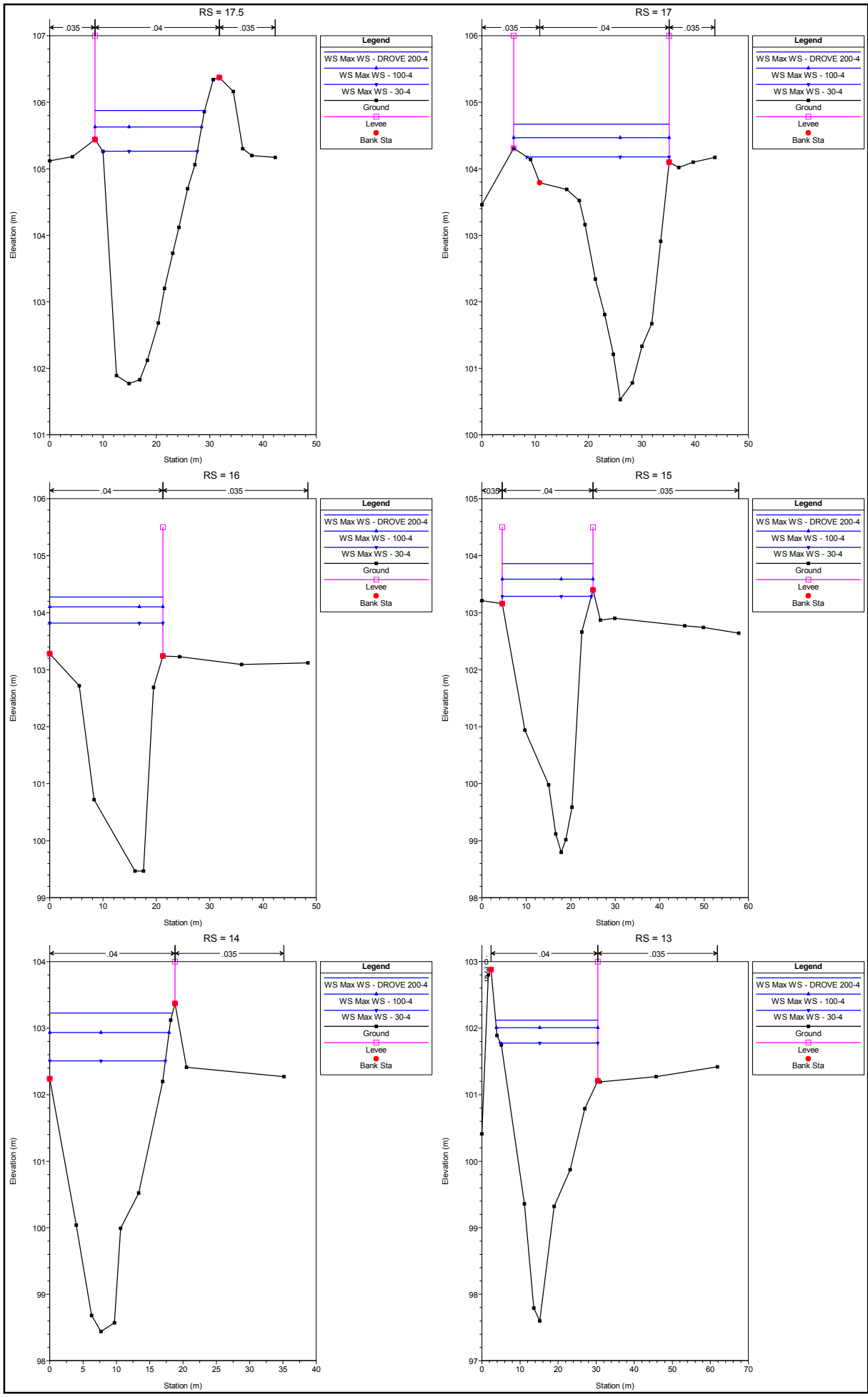


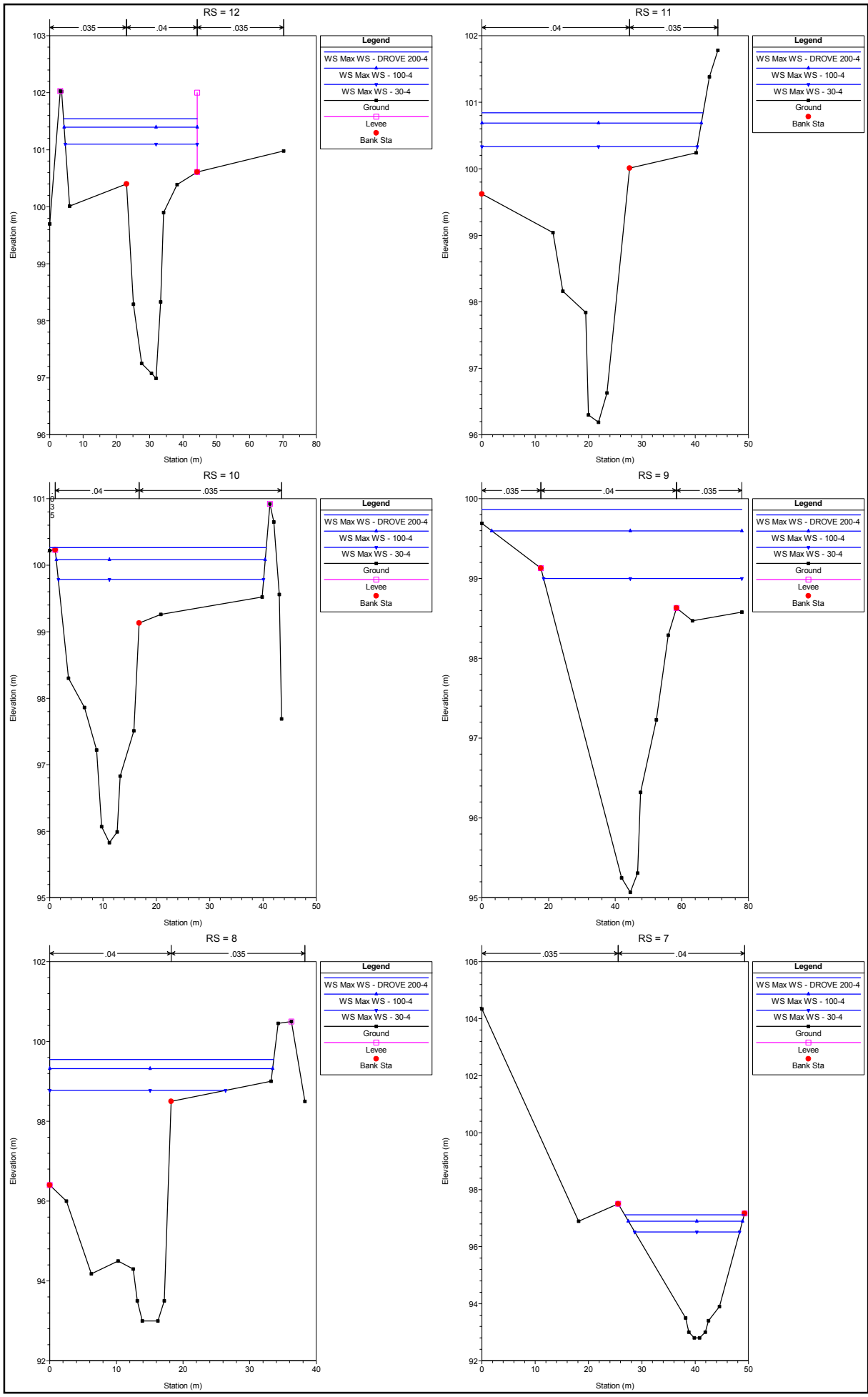


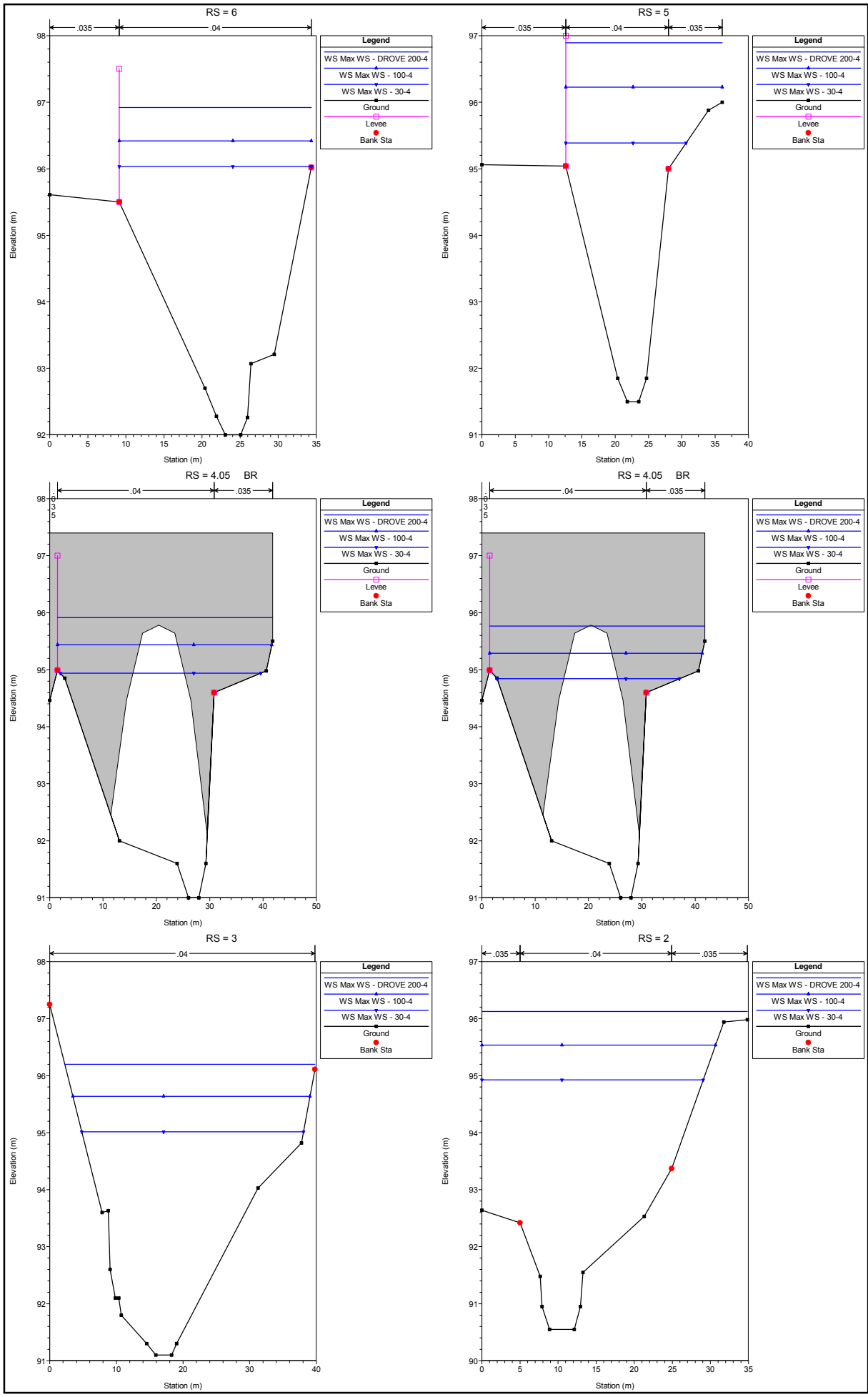


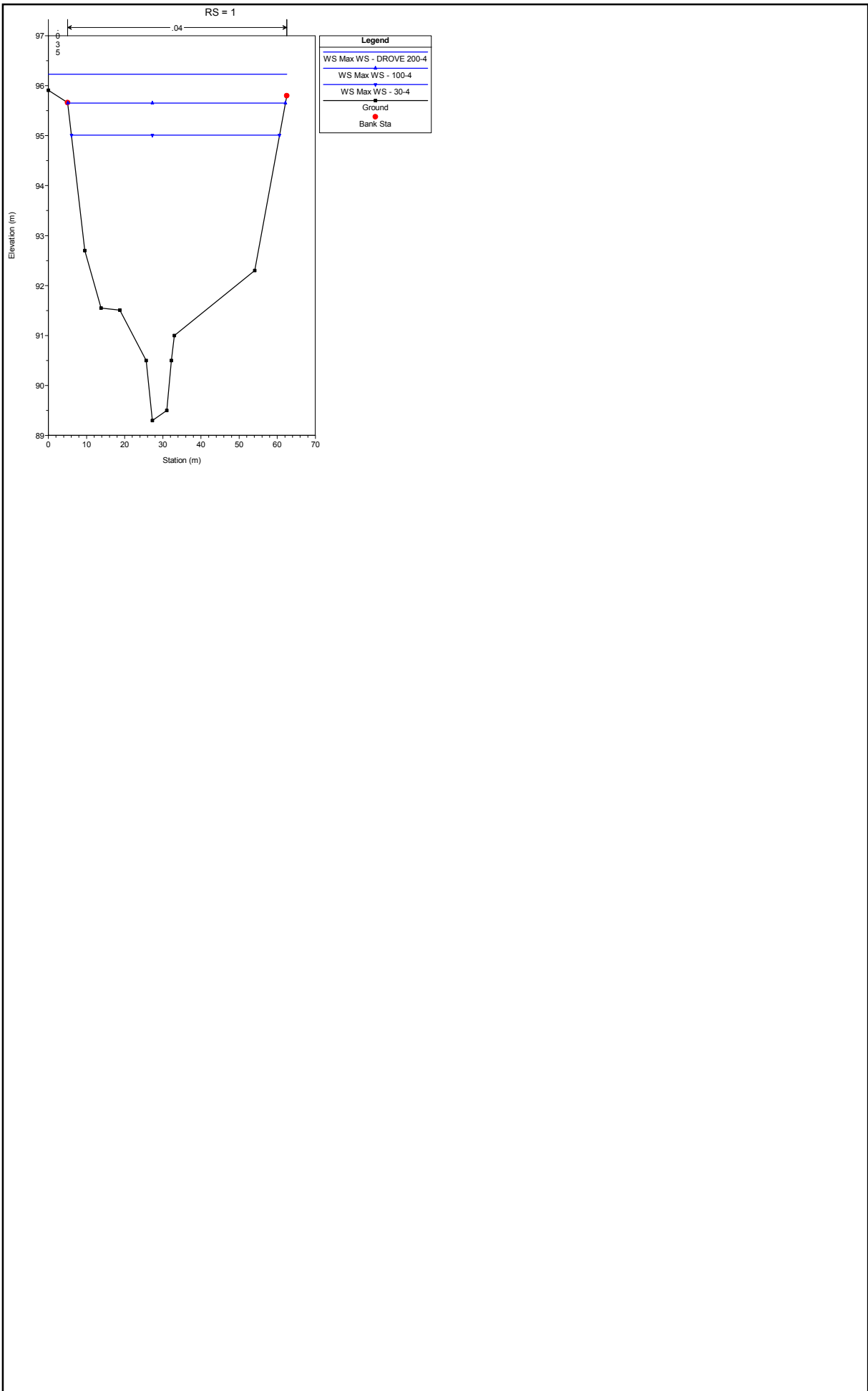












HEC-RAS River: BACCHERETO Reach: VALLE Profile: Max WS

Reach	River Sta	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	17.1	BACCH200	51.58	84.30	87.33		87.78	0.010077	2.96	17.40	9.27	0.69
VALLE	17.1	BACCH100	44.97	84.30	87.23		87.61	0.009009	2.73	16.47	9.27	0.65
VALLE	17.1	BACCH_30	34.64	84.30	87.10		87.36	0.006751	2.27	15.24	9.27	0.57
VALLE	17	BACCH200	51.58	84.30	87.32		87.78	0.010238	2.98	17.31	9.27	0.70
VALLE	17	BACCH100	44.97	84.30	87.23		87.61	0.009125	2.74	16.40	9.27	0.66
VALLE	17	BACCH_30	34.62	84.30	87.10		87.36	0.006794	2.28	15.20	9.27	0.57
VALLE	16.9		Lat Struct									
VALLE	16.8		Lat Struct									
VALLE	16	BACCH200	10.87	84.09	87.18	85.42	87.19	0.000366	0.58	18.63	10.39	0.14
VALLE	16	BACCH100	11.30	84.09	87.12	85.44	87.14	0.000433	0.62	18.08	10.39	0.15
VALLE	16	BACCH_30	10.48	84.09	87.03	85.39	87.05	0.000438	0.61	17.13	10.39	0.15
VALLE	15.5		Bridge									
VALLE	15	BACCH200	10.87	84.05	87.06		87.07	0.000413	0.57	19.09	12.62	0.15
VALLE	15	BACCH100	11.27	84.05	86.94		86.96	0.000572	0.64	17.59	12.62	0.17
VALLE	15	BACCH_30	10.35	84.05	86.66		86.69	0.000970	0.74	14.07	12.62	0.22
VALLE	14.9		Lat Struct									
VALLE	14.8		Lat Struct									
VALLE	14	BACCH200	6.46	83.79	87.05		87.05	0.000070	0.28	22.79	9.27	0.06
VALLE	14	BACCH100	5.94	83.79	86.93		86.94	0.000068	0.27	21.72	9.27	0.06
VALLE	14	BACCH_30	5.20	83.79	86.66		86.67	0.000074	0.27	19.23	9.27	0.06
VALLE	13	BACCH200	38.85	83.80	86.36	87.00	87.57	0.036702	4.89	7.94	3.54	1.04
VALLE	13	BACCH100	36.48	83.80	86.27	86.33	87.43	0.035815	4.78	7.63	3.54	1.04
VALLE	13	BACCH_30	31.09	83.80	86.06	86.10	87.09	0.033685	4.50	6.91	3.54	1.03
VALLE	11	BACCH200	38.85	83.34	85.46	84.10	85.51	0.000337	0.94	42.45	21.00	0.21
VALLE	11	BACCH100	36.39	83.34	85.41	84.06	85.45	0.000321	0.91	41.36	21.00	0.20
VALLE	11	BACCH_30	30.79	83.34	85.29	83.98	85.32	0.000282	0.82	38.80	21.00	0.19
VALLE	10.5		Bridge									
VALLE	10	BACCH200	38.85	83.34	85.42		85.47	0.000360	0.96	41.57	21.00	0.21
VALLE	10	BACCH100	36.39	83.34	85.37		85.42	0.000341	0.92	40.61	21.00	0.21
VALLE	10	BACCH_30	30.79	83.34	85.26		85.30	0.000294	0.83	38.33	21.00	0.19
VALLE	9.9		Lat Struct									
VALLE	9.8		Lat Struct									
VALLE	9	BACCH200	20.68	83.24	85.09		85.34	0.008346	2.21	9.35	7.74	0.64
VALLE	9	BACCH100	19.63	83.24	85.06		85.29	0.008194	2.16	9.09	7.74	0.64
VALLE	9	BACCH_30	17.24	83.24	84.97		85.18	0.007923	2.04	8.43	7.74	0.63
VALLE	8	BACCH200	10.21	83.05	84.55		85.07	0.026955	3.21	3.19	2.59	0.92
VALLE	8	BACCH100	10.01	83.05	84.53		85.05	0.026494	3.17	3.16	2.59	0.92
VALLE	8	BACCH_30	9.16	83.05	84.49		84.95	0.024311	3.00	3.05	2.59	0.88
VALLE	7	BACCH200	3.69	82.94	83.87		84.02	0.010430	1.72	2.15	2.73	0.62
VALLE	7	BACCH100	3.98	82.94	83.86		84.04	0.012831	1.89	2.11	2.73	0.69
VALLE	7	BACCH_30	4.01	82.94	83.85		84.04	0.013256	1.92	2.09	2.73	0.70
VALLE	6	BACCH200	2.20	82.77	83.78		83.80	0.001262	0.63	3.48	4.66	0.23
VALLE	6	BACCH100	2.25	82.77	83.77		83.79	0.001377	0.66	3.42	4.66	0.24
VALLE	6	BACCH_30	2.51	82.77	83.73		83.76	0.002024	0.78	3.24	4.66	0.30
VALLE	5	BACCH200	0.14	81.59	83.68		83.68	0.000001	0.03	5.16	3.15	0.01
VALLE	5	BACCH100	0.14	81.59	83.68		83.68	0.000001	0.03	5.16	3.15	0.01
VALLE	5	BACCH_30	0.14	81.59	83.68		83.68	0.000001	0.03	5.16	3.15	0.01
VALLE	4	BACCH200	1.37	81.58	83.71		83.71	0.000098	0.20	6.80	7.17	0.07
VALLE	4	BACCH100	1.37	81.58	83.71		83.71	0.000098	0.20	6.80	7.17	0.07
VALLE	4	BACCH_30	1.37	81.58	83.71		83.71	0.000098	0.20	6.80	7.17	0.07
VALLE	3.9		Lat Struct									
VALLE	3.8		Lat Struct									
VALLE	3	BACCH200	-9.77	81.65	83.22		83.35	0.004724	-1.60	6.12	4.53	0.44
VALLE	3	BACCH100	-5.02	81.65	82.98		83.03	0.002186	-1.00	5.02	4.53	0.30
VALLE	3	BACCH_30	2.09	81.65	82.51		82.53	0.001983	0.73	2.86	4.53	0.29
VALLE	2	BACCH200	-27.31	80.27	83.10		83.26	0.003811	-1.79	15.22	9.51	0.45
VALLE	2	BACCH100	-15.83	80.27	82.88		82.95	0.001955	-1.20	13.15	9.24	0.32
VALLE	2	BACCH_30	-3.91	80.27	82.48		82.49	0.000300	-0.41	9.61	8.75	0.12
VALLE	1.9		Lat Struct									
VALLE	1	BACCH200	-55.98	77.68	83.29		83.37	0.000910	-1.28	43.79	15.07	0.24
VALLE	1	BACCH100	-8.42	77.68	82.97		82.97	0.000027	-0.21	39.16	13.89	0.04
VALLE	1	BACCH_30	-4.43	77.68	82.50		82.50	0.000011	-0.13	33.04	12.15	0.03

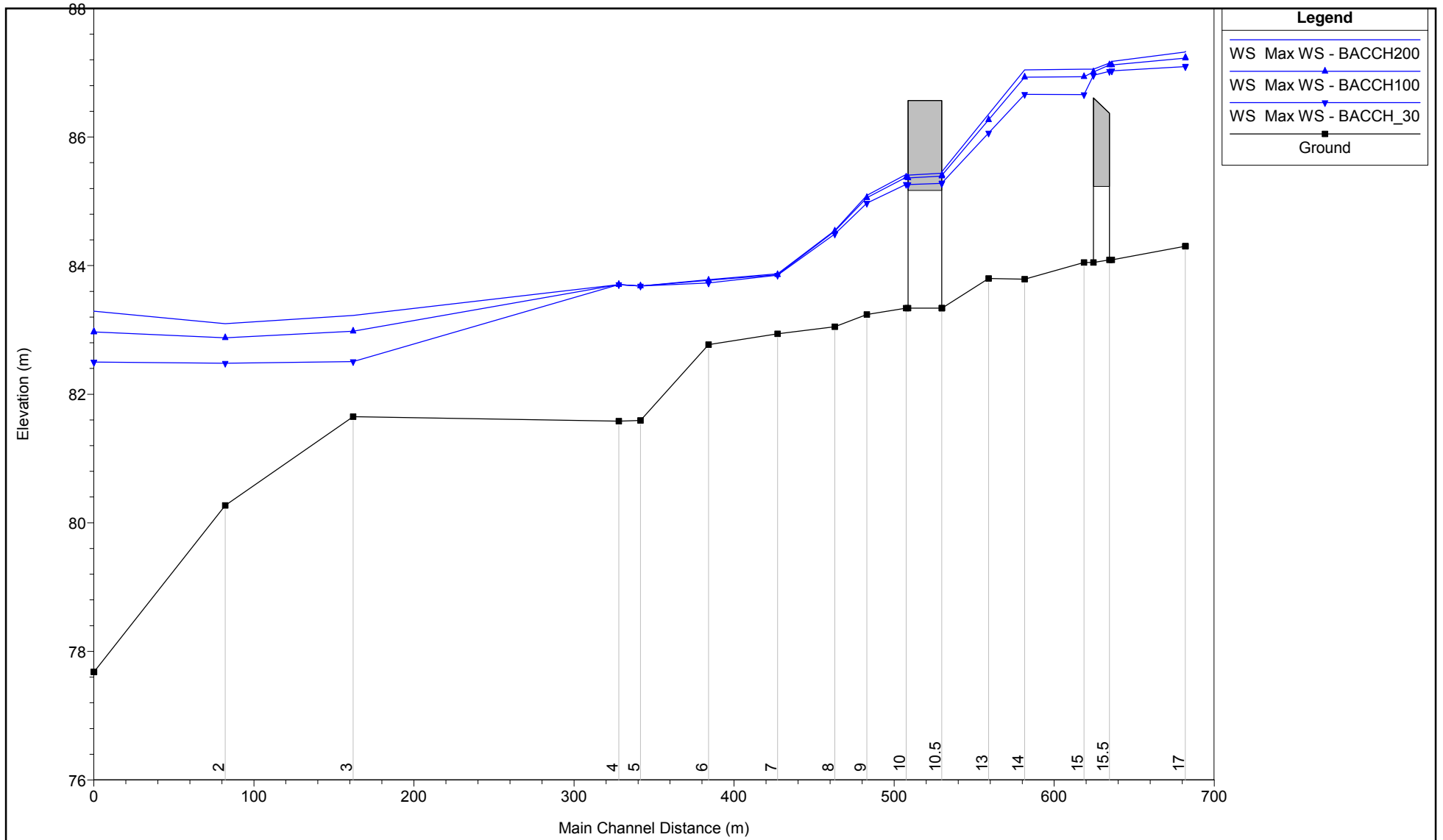
HEC-RAS River: BACCHERETO Reach: VALLE Profile: Max WS (Continued)

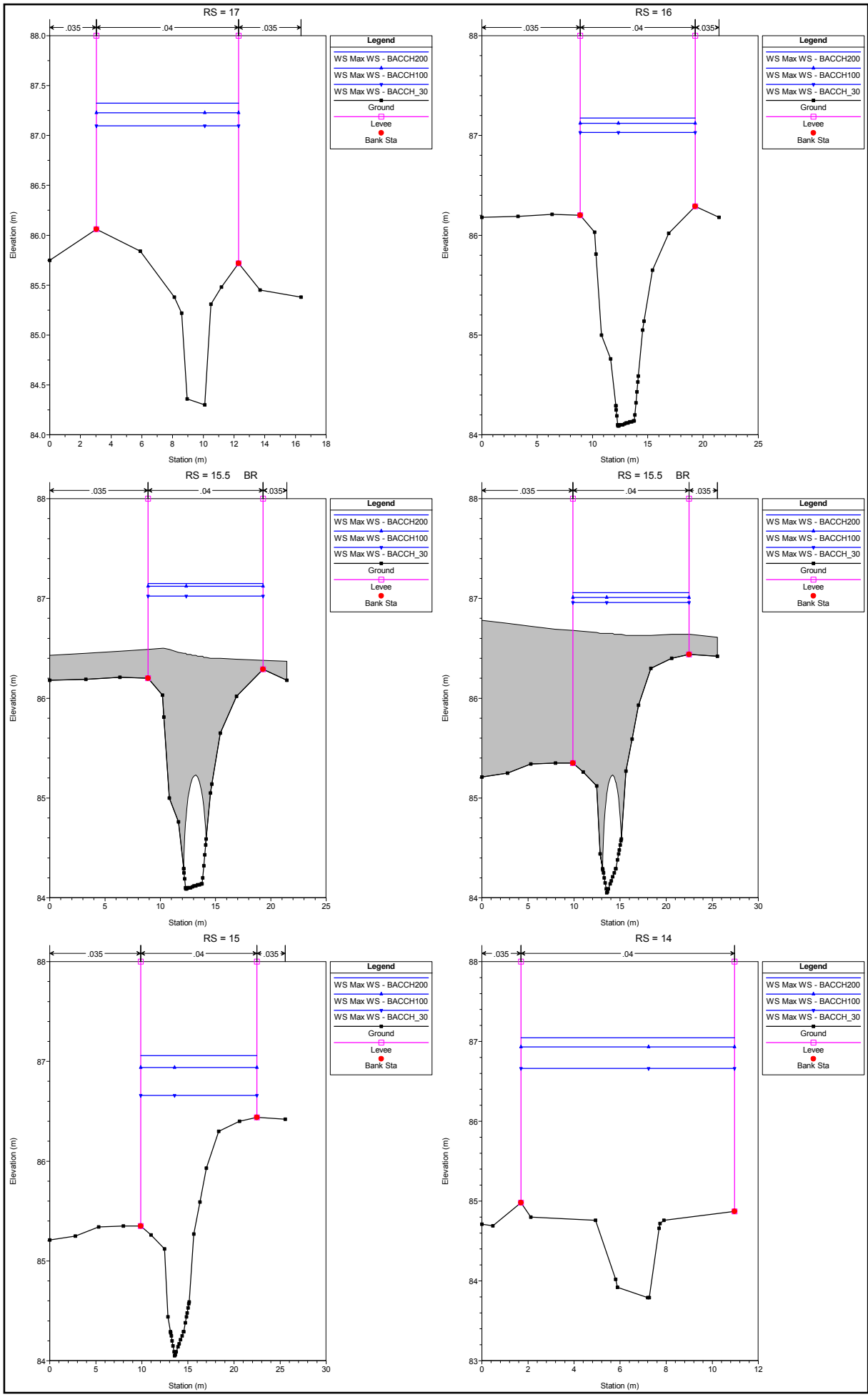
Reach	River Sta	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
VALLE	0.9	BACCH200	-55.98	77.68	83.29	80.53	83.37	0.000910	-1.28	43.79	15.06	0.24
VALLE	0.9	BACCH100	-8.42	77.68	82.97	78.85	82.97	0.000027	-0.22	39.15	13.88	0.04
VALLE	0.9	BACCH_30	-4.43	77.68	82.50	78.55	82.50	0.000011	-0.13	33.04	12.15	0.03

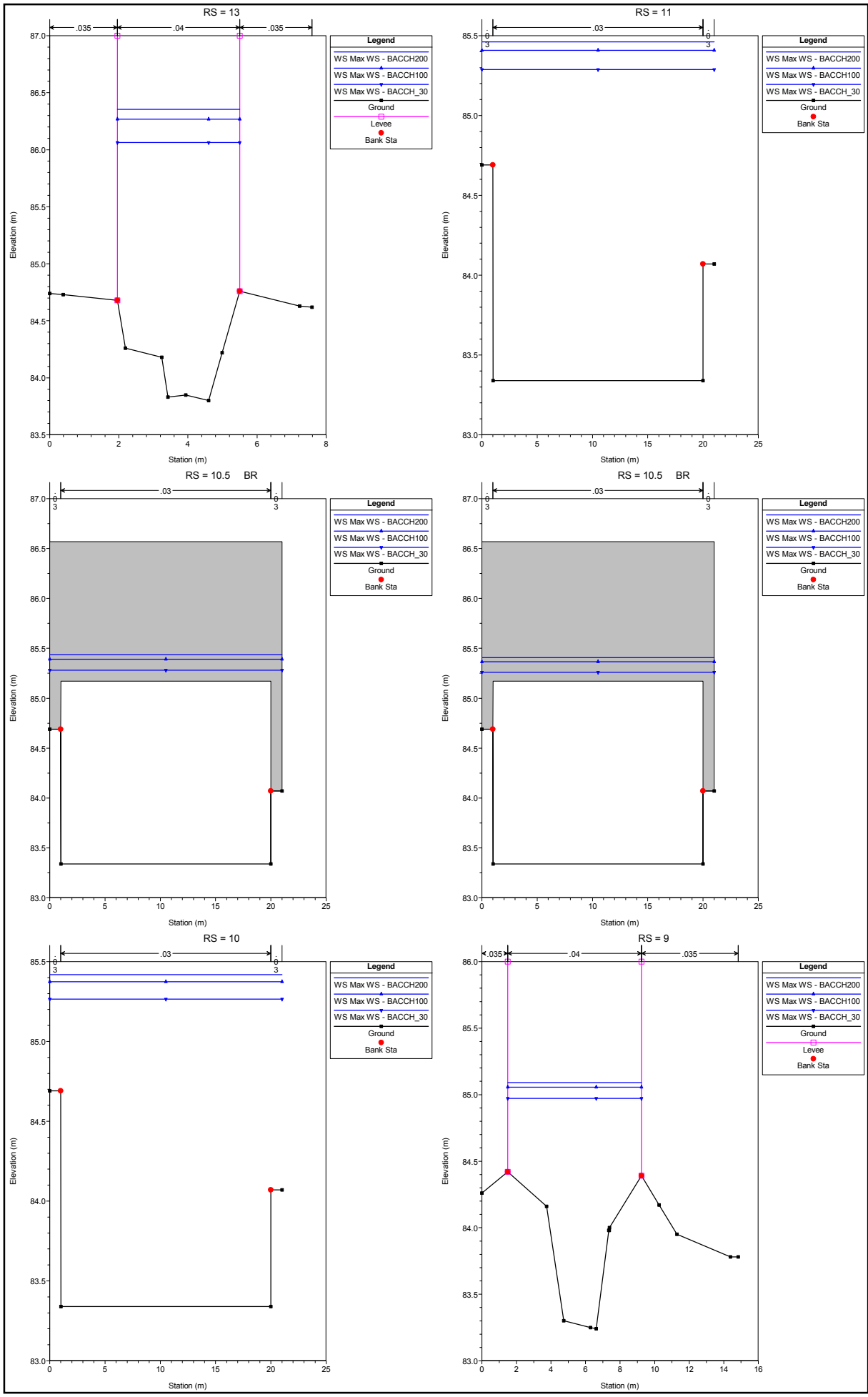


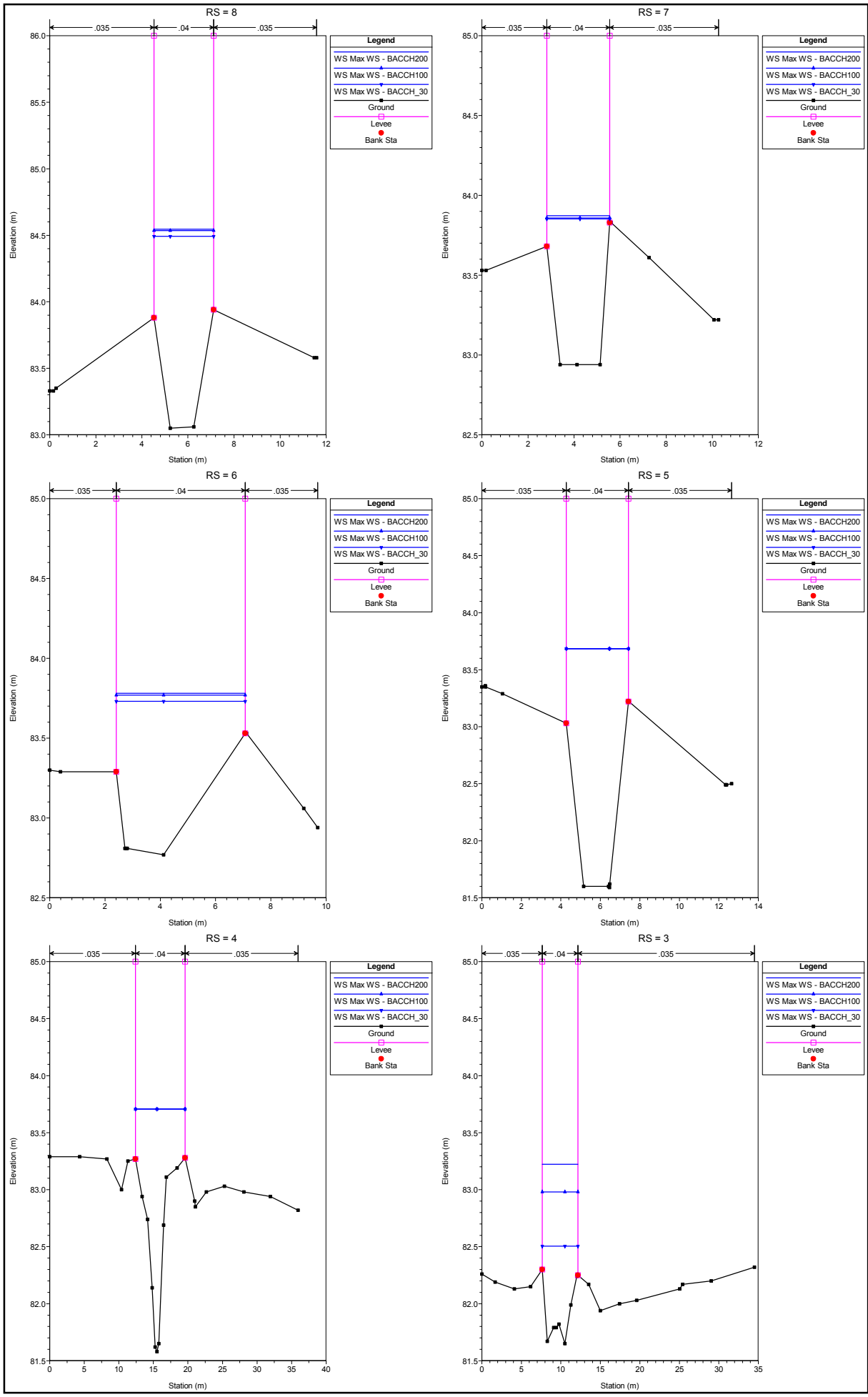
HEC-RAS Profile: Max WS

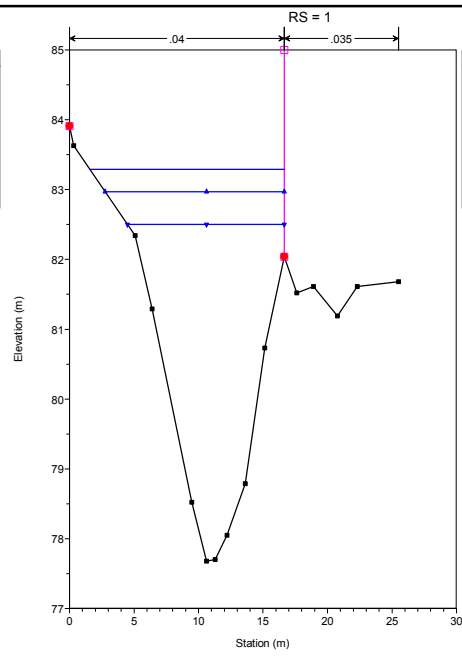
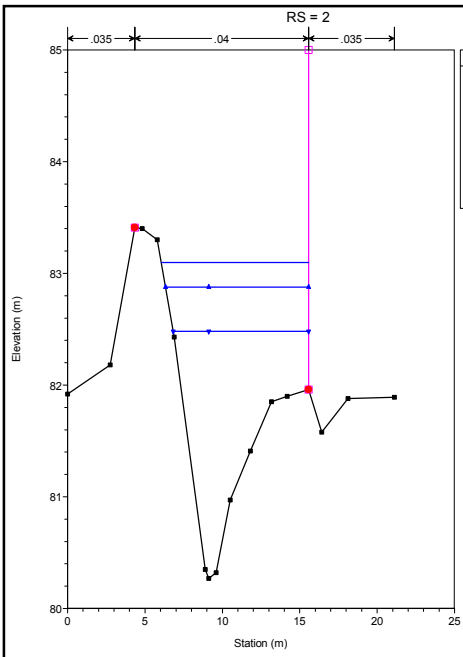
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
CUSONA VALLE	BACCH200	81.26	75.20	34.09	305.95	321.79
CUSONA VALLE	BACCH100	80.94	75.20	23.31	242.82	234.07
CUSONA VALLE	BACCH_30	80.41	75.20	17.65	187.76	121.36
D1	BACCH200	87.21	84.20	4.36	18.35	18.59
D1	BACCH100	87.15	84.20	2.10	18.35	17.45
D1	BACCH_30	87.05	84.20	0.32	18.35	15.62
D2	BACCH200	87.05	84.00	3.05	7.22	10.58
D2	BACCH100	86.93	84.00	0.20	6.76	9.77
D2	BACCH_30	86.65	84.00	3.89	6.28	7.88
D3	BACCH200	83.94	82.60	0.34	7.51	3.04
D3	BACCH100	83.92	82.60	0.30	7.51	2.91
D3	BACCH_30	83.87	82.60	0.62	7.51	2.51
D4	BACCH200	83.00	81.60	80.03	14.58	6.00
D4	BACCH100	82.83	81.60	51.54	14.58	3.45
D4	BACCH_30	82.66	81.60	9.91	7.40	1.99
D5	BACCH200	83.09	79.50	27.22	30.93	21.70
D5	BACCH100	82.86	79.50	17.55	30.93	14.61
D5	BACCH_30	82.49	79.50	2.39	13.03	6.14
S2	BACCH200	85.27	82.60	11.74	15.34	15.12
S2	BACCH100	84.89	82.60	7.98	11.13	10.09
S2	BACCH_30	84.23	82.60	2.95	6.74	3.60
S2_b	BACCH200	85.27	81.90	0.32	18.35	18.64
S2_b	BACCH100	84.89	81.90	0.00	12.61	12.59
S2_b	BACCH_30	84.23	81.90	0.00	9.45	5.28
S3	BACCH200	82.93	81.00	4.11	37.80	24.96
S3	BACCH100	82.89	81.00	4.27	37.80	23.67
S3	BACCH_30	82.81	81.00	4.98	37.80	20.32
S3_b	BACCH200	82.43	80.30	0.54	22.17	14.16
S3_b	BACCH100	82.41	80.30	0.36	22.17	13.68
S3_b	BACCH_30	82.34	80.30	0.52	22.17	12.28
S4	BACCH200	82.31	80.80	66.43	80.94	47.79
S4	BACCH100	82.18	80.80	52.49	67.79	37.26
S4	BACCH_30	82.10	80.80	18.38	67.79	32.28
S5	BACCH200	81.36	80.00	1.07	7.97	1.34
S5	BACCH100	80.00	80.00	0.00	0.01	0.00
S5	BACCH_30	80.00	80.00	0.00	0.01	0.00











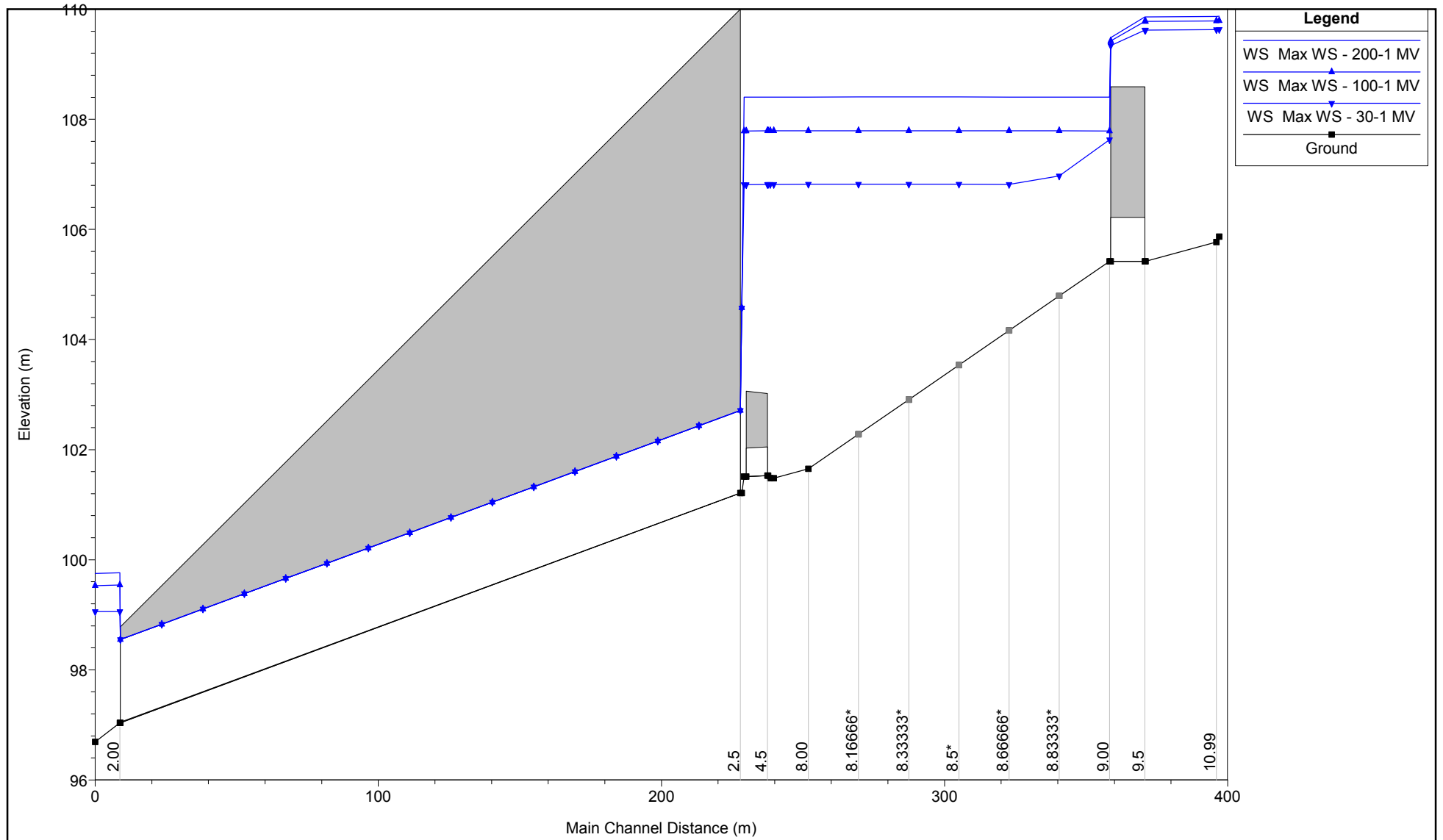
HEC-RAS River: Borro di Melacce Reach: Melacce Profile: Max WS

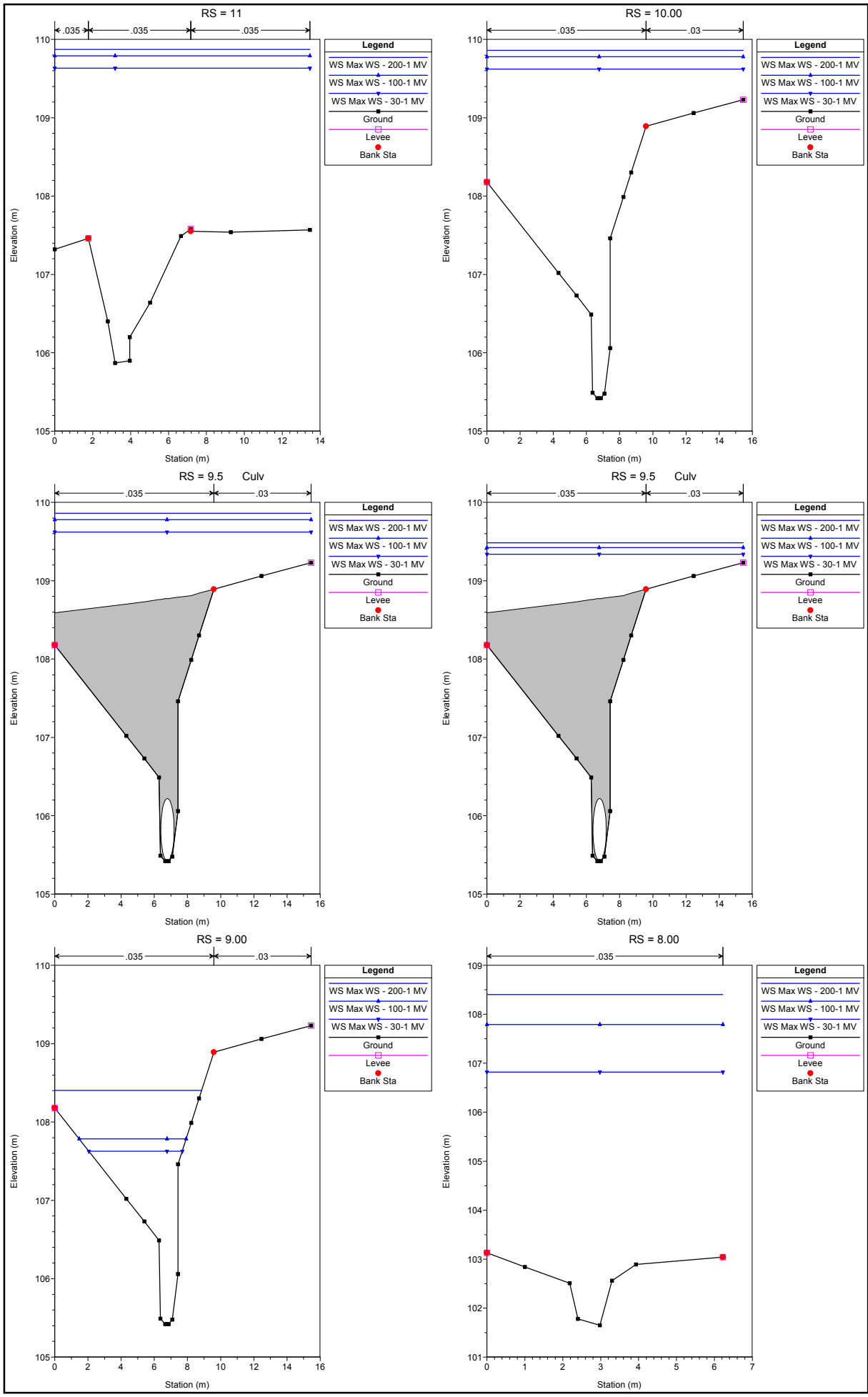
Reach	River Sta	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Melacce	11	200-1 MV	26.55	105.87	109.87		109.90	0.000268	0.87	36.00	13.46	0.16
Melacce	11	100-1 MV	23.31	105.87	109.79		109.81	0.000227	0.79	34.90	13.46	0.14
Melacce	11	30-1 MV	18.23	105.87	109.63		109.65	0.000168	0.65	32.76	13.46	0.12
Melacce	10.99	200-1 MV	26.55	105.77	109.87		109.90	0.000271	0.86	36.00	13.46	0.16
Melacce	10.99	100-1 MV	23.31	105.77	109.79		109.81	0.000230	0.78	34.92	13.46	0.14
Melacce	10.99	30-1 MV	18.22	105.77	109.63		109.65	0.000170	0.65	32.79	13.46	0.12
Melacce	10.9		Lat Struct									
Melacce	10.8		Lat Struct									
Melacce	10.00	200-1 MV	25.50	105.42	109.86		109.90	0.000530	0.93	29.08	15.45	0.19
Melacce	10.00	100-1 MV	22.55	105.42	109.78		109.81	0.000471	0.86	27.82	15.45	0.17
Melacce	10.00	30-1 MV	17.90	105.42	109.62		109.65	0.000385	0.75	25.37	15.45	0.16
Melacce	9.5		Culvert									
Melacce	9.00	200-1 MV	6.98	105.42	108.40		108.42	0.000643	0.66	10.60	8.85	0.19
Melacce	9.00	100-1 MV	22.55	105.42	107.78	108.02	108.58	0.036938	3.94	5.72	6.45	1.34
Melacce	9.00	30-1 MV	17.90	105.42	107.63	107.83	108.35	0.037353	3.76	4.77	5.63	1.30
Melacce	8.98		Lat Struct									
Melacce	8.9		Lat Struct									
Melacce	8.83333*	200-1 MV	7.73	104.79	108.40		108.41	0.000176	0.45	18.32	13.91	0.10
Melacce	8.83333*	100-1 MV	7.37	104.79	107.79		107.81	0.000608	0.66	11.11	8.80	0.19
Melacce	8.83333*	30-1 MV	17.99	104.79	106.97	107.18	107.69	0.037693	3.77	4.78	5.90	1.34
Melacce	8.79		Lat Struct									
Melacce	8.66666*	200-1 MV	8.25	104.16	108.40		108.41	0.000062	0.32	27.28	12.37	0.06
Melacce	8.66666*	100-1 MV	8.20	104.16	107.79		107.80	0.000158	0.44	19.70	12.37	0.10
Melacce	8.66666*	30-1 MV	7.22	104.16	106.82		106.86	0.001197	0.84	8.61	8.18	0.26
Melacce	8.5*	200-1 MV	8.29	103.54	108.40		108.41	0.000033	0.25	33.49	10.84	0.04
Melacce	8.5*	100-1 MV	8.34	103.54	107.79		107.80	0.000064	0.31	26.86	10.84	0.06
Melacce	8.5*	30-1 MV	7.96	103.54	106.82		106.83	0.000258	0.49	16.33	10.84	0.13
Melacce	8.33333*	200-1 MV	7.28	102.91	108.40		108.41	0.000018	0.20	36.93	9.30	0.03
Melacce	8.33333*	100-1 MV	7.37	102.91	107.79		107.80	0.000030	0.24	31.23	9.30	0.04
Melacce	8.33333*	30-1 MV	7.50	102.91	106.82		106.83	0.000082	0.34	22.21	9.30	0.07
Melacce	8.16666*	200-1 MV	5.44	102.28	108.41		108.41	0.000010	0.14	37.60	7.76	0.02
Melacce	8.16666*	100-1 MV	5.58	102.28	107.79		107.79	0.000015	0.17	32.84	7.76	0.03
Melacce	8.16666*	30-1 MV	6.20	102.28	106.82		106.83	0.000037	0.24	25.31	7.76	0.04
Melacce	8.00	200-1 MV	5.34	101.65	108.40		108.41	0.000011	0.15	35.49	6.22	0.02
Melacce	8.00	100-1 MV	5.11	101.65	107.79		107.79	0.000014	0.16	31.68	6.22	0.02
Melacce	8.00	30-1 MV	5.11	101.65	106.82		106.82	0.000024	0.20	25.64	6.22	0.03
Melacce	7.00	200-1 MV	7.05	101.48	108.40		108.40	0.000003	0.12	58.98	10.49	0.02
Melacce	7.00	100-1 MV	7.04	101.48	107.79		107.79	0.000005	0.13	52.54	10.49	0.02
Melacce	7.00	30-1 MV	7.04	101.48	106.82		106.82	0.000009	0.17	42.36	10.49	0.03
Melacce	6.00	200-1 MV	7.05	101.48	108.40		108.40	0.000003	0.12	58.98	10.49	0.02
Melacce	6.00	100-1 MV	7.04	101.48	107.79		107.79	0.000005	0.13	52.54	10.49	0.02
Melacce	6.00	30-1 MV	7.04	101.48	106.82		106.82	0.000009	0.17	42.36	10.49	0.03
Melacce	5.00	200-1 MV	7.04	101.53	108.40		108.40	0.000002	0.10	73.67	13.76	0.01
Melacce	5.00	100-1 MV	7.04	101.53	107.79		107.79	0.000003	0.11	65.23	13.76	0.02
Melacce	5.00	30-1 MV	7.04	101.53	106.82		106.82	0.000006	0.14	51.87	13.76	0.02
Melacce	4.5		Culvert									
Melacce	4.00	200-1 MV	7.04	101.51	108.40		108.40	0.000005	0.12	59.06	11.41	0.02
Melacce	4.00	100-1 MV	7.04	101.51	107.79		107.79	0.000007	0.13	52.04	11.41	0.02
Melacce	4.00	30-1 MV	7.04	101.51	106.81		106.81	0.000014	0.17	40.94	11.41	0.03
Melacce	3.00	200-1 MV	7.05	101.21	104.58		104.61	0.000743	0.66	10.80	11.43	0.19
Melacce	3.00	100-1 MV	7.05	101.21	104.58		104.60	0.000752	0.67	10.76	11.43	0.19
Melacce	3.00	30-1 MV	7.04	101.21	104.57		104.59	0.000774	0.67	10.66	11.43	0.20
Melacce	2.5		Culvert									
Melacce	2.00	200-1 MV	7.04	97.04	99.76		99.78	0.000165	0.51	14.19	11.97	0.14
Melacce	2.00	100-1 MV	7.03	97.04	99.54		99.56	0.000311	0.62	11.56	11.97	0.19
Melacce	2.00	30-1 MV	0.03	97.04	99.06		99.06	0.000000	0.01	6.23	8.48	0.00
Melacce	1.00	200-1 MV	7.04	96.69	99.75	97.85	99.76	0.000152	0.46	15.94	10.33	0.12
Melacce	1.00	100-1 MV	7.03	96.69	99.53	97.85	99.54	0.000243	0.54	13.67	10.33	0.15
Melacce	1.00	30-1 MV	0.03	96.69	99.06	96.74	99.06	0.000000	0.00	8.81	10.33	0.00

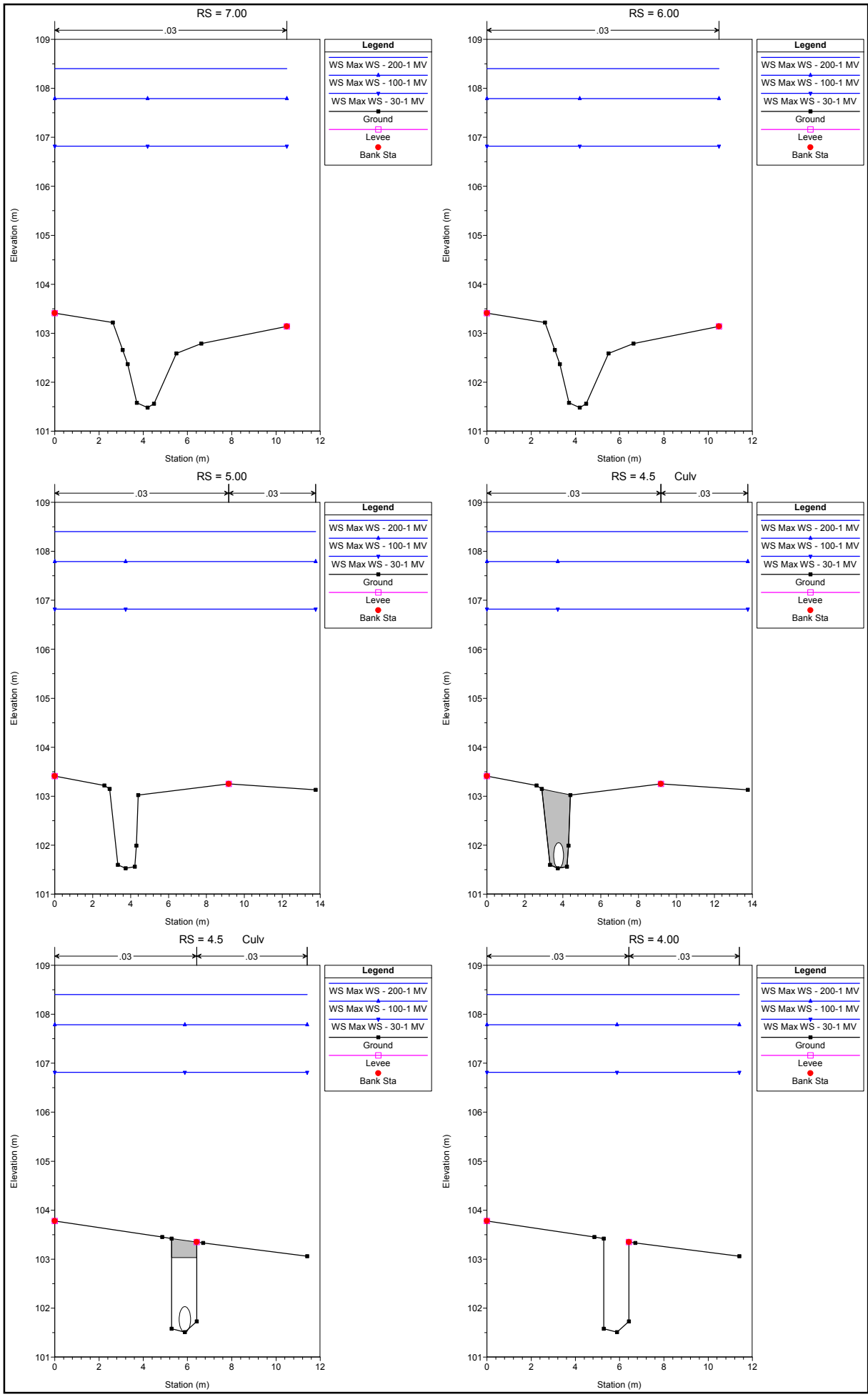
HEC-RAS Profile: Max WS

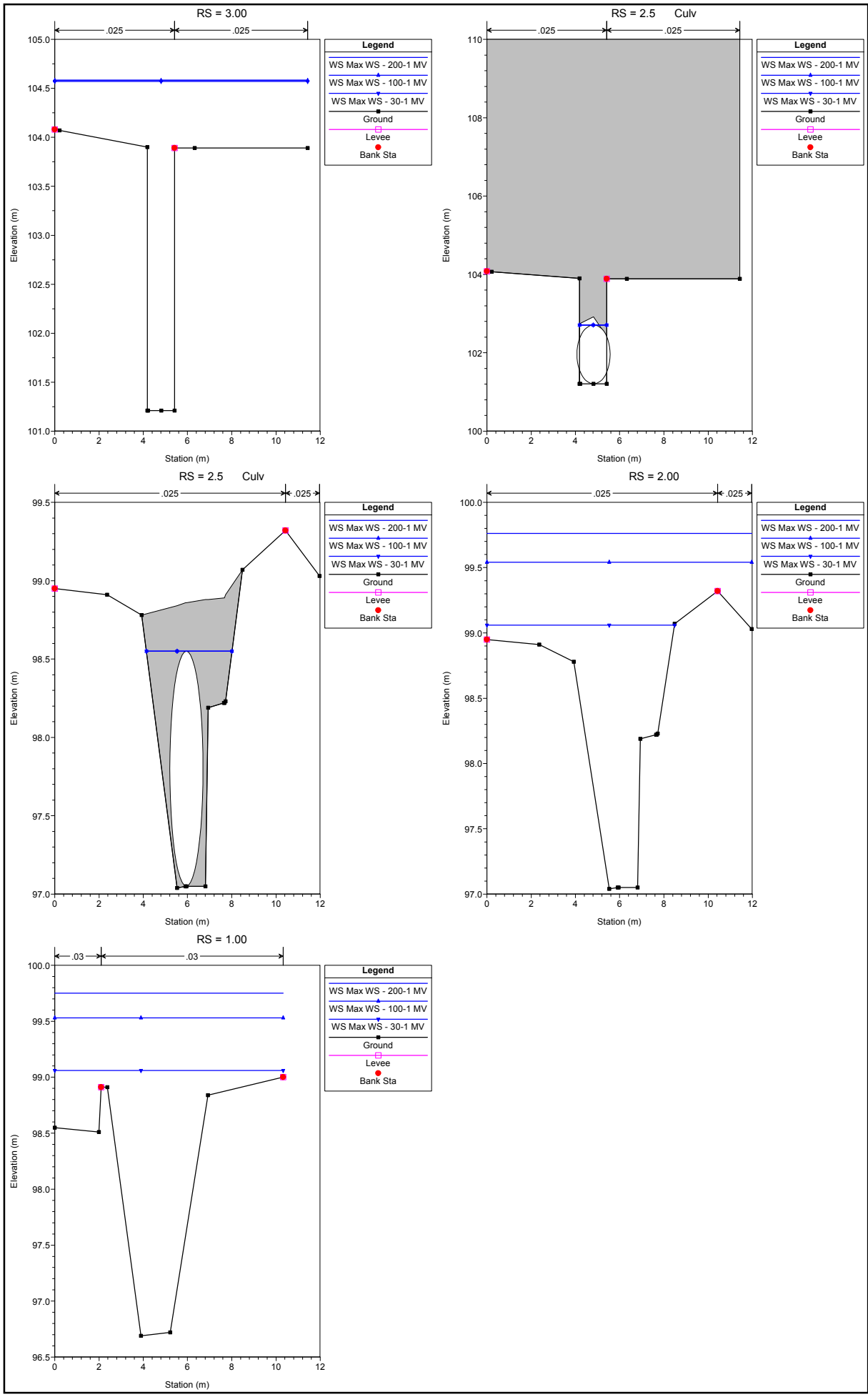
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
D1	200-1 MV	109.85	107.60	8.00	2.50	2.51
D1	100-1 MV	109.77	107.60	7.47	2.03	2.32
D1	30-1 MV	109.61	107.60	7.48	2.03	1.99
D2	200-1 MV	108.81	107.80	0.06	0.78	0.36
D2	100-1 MV	108.71	107.80	0.09	0.78	0.29
D2	30-1 MV	108.53	107.80	0.10	0.46	0.17
D3	200-1 MV	108.40	103.00	42.81	7.59	21.93
D3	100-1 MV	107.79	103.00	1.32	7.16	17.47
D3	30-1 MV	106.81	103.00	39.50	6.33	10.92
S1	200-1 MV	109.85	107.50	12.83	1.40	1.21
S1	100-1 MV	109.77	107.50	11.61	1.00	1.11
S1	30-1 MV	109.61	107.50	11.57	1.00	0.95
S2	200-1 MV	108.40	103.00	49.06	2.68	6.57
S2	100-1 MV	107.79	103.00	0.83	2.37	5.06
S2	30-1 MV	106.81	103.00	43.98	1.90	3.01











HEC-RAS River: Borro di Papaiano Reach: Papaiano Profile: Max WS

Reach	River Sta	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
Papaiano	16.00	TR200 MV	36.52	104.75	107.07		107.48	0.007184	2.59	13.17	8.69	0.58
Papaiano	16.00	100-1 MV	31.52	104.75	106.93		107.30	0.007142	2.47	12.00	8.69	0.57
Papaiano	16.00	30-1 MV	24.95	104.75	106.75		107.05	0.007005	2.28	10.40	8.69	0.56
Papaiano	15.99	TR200 MV	36.37	104.71	106.73	106.76	107.39	0.015540	3.36	10.29	8.69	0.82
Papaiano	15.99	100-1 MV	31.52	104.71	106.62	106.65	107.22	0.015833	3.25	9.34	8.69	0.82
Papaiano	15.99	30-1 MV	24.94	104.71	106.47	106.49	106.97	0.015629	3.03	8.09	8.69	0.80
Papaiano	15.8		Lat Struct									
Papaiano	15.7425*	TR200 MV	30.92	104.49	106.53		107.00	0.011392	2.86	10.41	9.28	0.69
Papaiano	15.7425*	100-1 MV	27.81	104.49	106.42	106.38	106.88	0.012596	2.88	9.44	9.28	0.72
Papaiano	15.7425*	30-1 MV	22.41	104.49	106.31		106.68	0.012084	2.68	8.35	9.28	0.70
Papaiano	15.495*	TR200 MV	27.33	104.28	106.47		106.76	0.006206	2.20	11.86	9.86	0.51
Papaiano	15.495*	100-1 MV	23.20	104.28	106.41		106.63	0.005370	2.00	11.19	9.86	0.47
Papaiano	15.495*	30-1 MV	19.27	104.28	106.32		106.51	0.004725	1.82	10.37	9.86	0.44
Papaiano	15.2475*	TR200 MV	21.19	104.07	106.36		106.51	0.003139	1.59	12.72	10.45	0.36
Papaiano	15.2475*	100-1 MV	18.57	104.07	106.33		106.45	0.002578	1.43	12.45	10.45	0.33
Papaiano	15.2475*	30-1 MV	15.31	104.07	106.29		106.38	0.001974	1.23	12.00	10.45	0.28
Papaiano	15.00	TR200 MV	19.59	103.85	106.41		106.50	0.001516	1.17	15.44	11.03	0.25
Papaiano	15.00	100-1 MV	17.86	103.85	106.35		106.43	0.001460	1.13	14.74	11.03	0.24
Papaiano	15.00	30-1 MV	15.33	103.85	106.27		106.34	0.001295	1.04	13.92	11.03	0.23
Papaiano	14.00	TR200 MV	19.29	103.59	106.35	105.64	106.39	0.000840	0.73	21.50	17.51	0.15
Papaiano	14.00	100-1 MV	15.35	103.59	106.33	105.58	106.36	0.000560	0.59	21.17	17.51	0.12
Papaiano	14.00	30-1 MV	10.28	103.59	106.29	105.49	106.31	0.000279	0.41	20.50	17.51	0.09
Papaiano	13.5		Bridge									
Papaiano	13.00	TR200 MV	16.53	103.59	105.84		105.93	0.003596	1.29	12.53	17.51	0.30
Papaiano	13.00	100-1 MV	8.90	103.59	105.62		105.68	0.003346	1.15	8.67	17.51	0.28
Papaiano	13.00	30-1 MV	10.29	103.59	105.35	105.49	105.75	0.029881	3.06	4.11	14.43	0.81
Papaiano	12.9		Lat Struct									
Papaiano	12.8		Lat Struct									
Papaiano	12.4		Lat Struct									
Papaiano	12.00	TR200 MV	4.79	103.07	105.86		105.87	0.000054	0.25	20.28	12.50	0.06
Papaiano	12.00	100-1 MV	2.06	103.07	105.62		105.62	0.000016	0.13	17.28	12.50	0.03
Papaiano	12.00	30-1 MV	5.24	103.07	105.07		105.08	0.000351	0.50	10.92	9.93	0.14
Papaiano	11.00	TR200 MV	18.32	102.06	105.69	103.56	105.78	0.000761	1.31	13.97	4.11	0.23
Papaiano	11.00	100-1 MV	16.00	102.06	105.46	103.45	105.54	0.000692	1.23	13.02	4.11	0.22
Papaiano	11.00	30-1 MV	12.70	102.06	104.93	103.28	105.00	0.000699	1.17	10.81	4.11	0.23
Papaiano	10.5		Bridge									
Papaiano	10.00	TR200 MV	18.32	101.75	105.61		105.68	0.000504	1.13	16.23	4.41	0.19
Papaiano	10.00	100-1 MV	16.00	101.75	105.41		105.47	0.000442	1.04	15.35	4.41	0.18
Papaiano	10.00	30-1 MV	12.70	101.75	104.92		104.96	0.000410	0.96	13.17	4.41	0.18
Papaiano	9.9		Lat Struct									
Papaiano	9.00	TR200 MV	16.97	101.47	103.79		104.56	0.015787	3.97	4.38	2.24	0.86
Papaiano	9.00	100-1 MV	15.87	101.47	103.75		104.45	0.014559	3.79	4.29	2.24	0.82
Papaiano	9.00	30-1 MV	12.86	101.47	103.50		104.11	0.013603	3.53	3.74	2.24	0.82
Papaiano	8.00	TR200 MV	15.48	101.38	103.26	103.17	103.94	0.009256	4.14	4.58	3.03	0.98
Papaiano	8.00	100-1 MV	15.32	101.38	103.25	103.16	103.93	0.009205	4.11	4.55	3.03	0.98
Papaiano	8.00	30-1 MV	12.38	101.38	103.08		103.63	0.008478	3.70	4.04	3.03	0.92
Papaiano	7.00	TR200 MV	16.97	101.11	103.02		103.30	0.003892	2.56	7.66	7.34	0.62
Papaiano	7.00	100-1 MV	16.26	101.11	102.98		103.26	0.003949	2.54	7.39	7.34	0.62
Papaiano	7.00	30-1 MV	12.48	101.11	102.86		103.08	0.003276	2.21	6.52	7.34	0.56
Papaiano	6.00	TR200 MV	16.97	100.63	103.09	102.33	103.27	0.001691	1.98	9.89	7.38	0.44
Papaiano	6.00	100-1 MV	16.01	100.63	103.06	102.26	103.22	0.001619	1.92	9.62	7.33	0.43
Papaiano	6.00	30-1 MV	12.90	100.63	102.92	102.07	103.06	0.001374	1.69	8.68	7.13	0.39
Papaiano	5.5		Bridge									
Papaiano	5.00	TR200 MV	1.31	100.40	102.47		102.47	0.000019	0.16	8.95	10.27	0.04
Papaiano	5.00	100-1 MV	8.71	100.40	102.28		102.37	0.001446	1.32	7.10	10.10	0.39
Papaiano	5.00	30-1 MV	0.16	100.40	101.79		101.79	0.000002	0.04	4.02	4.21	0.01
Papaiano	4.00	TR200 MV	1.02	99.86	102.46	100.16	102.46	0.000002	0.06	19.24	8.83	0.01
Papaiano	4.00	100-1 MV	1.02	99.86	102.20	100.16	102.20	0.000002	0.06	16.94	8.83	0.01
Papaiano	4.00	30-1 MV	0.93	99.86	101.73	100.15	101.73	0.000004	0.08	12.79	8.83	0.02

HEC-RAS Profile: Max WS

Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
D2	TR200 MV	105.78	101.90	0.73	14.33	30.66
D2	100-1 MV	105.55	101.90	2.76	13.43	27.37
D2	30-1 MV	105.00	101.90	5.76	11.64	20.20
D3	TR200 MV	102.72	99.70	11.71	26.85	30.90
D3	100-1 MV	102.43	99.70	3.70	26.43	23.17
D3	30-1 MV	102.31	99.70	3.02	26.43	20.00
S1	TR200 MV	106.38	105.00	7.10	4.23	2.40
S1	100-1 MV	106.34	105.00	4.64	4.23	2.22
S1	30-1 MV	106.28	105.00	4.08	4.23	1.98
S2	TR200 MV	105.83	105.00	1.77	0.48	0.18
S2	100-1 MV	105.70	105.00	0.01	0.48	0.12
S2	30-1 MV	105.67	105.00	0.00	0.48	0.10

