

ESTUDI D'INUNDABILITAT DEL RIU SEC
termes municipals de SABADELL i BADIA DEL VALLÈS

Planta General
Seccions transversals
Taules

FEBRER 2011

ESTUDI D'INUNDABILITAT DEL RIU SEC DINS DE L'ÀMBIT DE SANT PAU (Sabadell – Badia del Vallès)

Amb motiu de l'execució de les obres d'urbanització del Sector de Sant Pau de Riu Sec, en el terme municipal de Sabadell, quedaven incloses dins de les esmentades obres l'endegament i recuperació del tram de riu Sec que travessa el Sector.

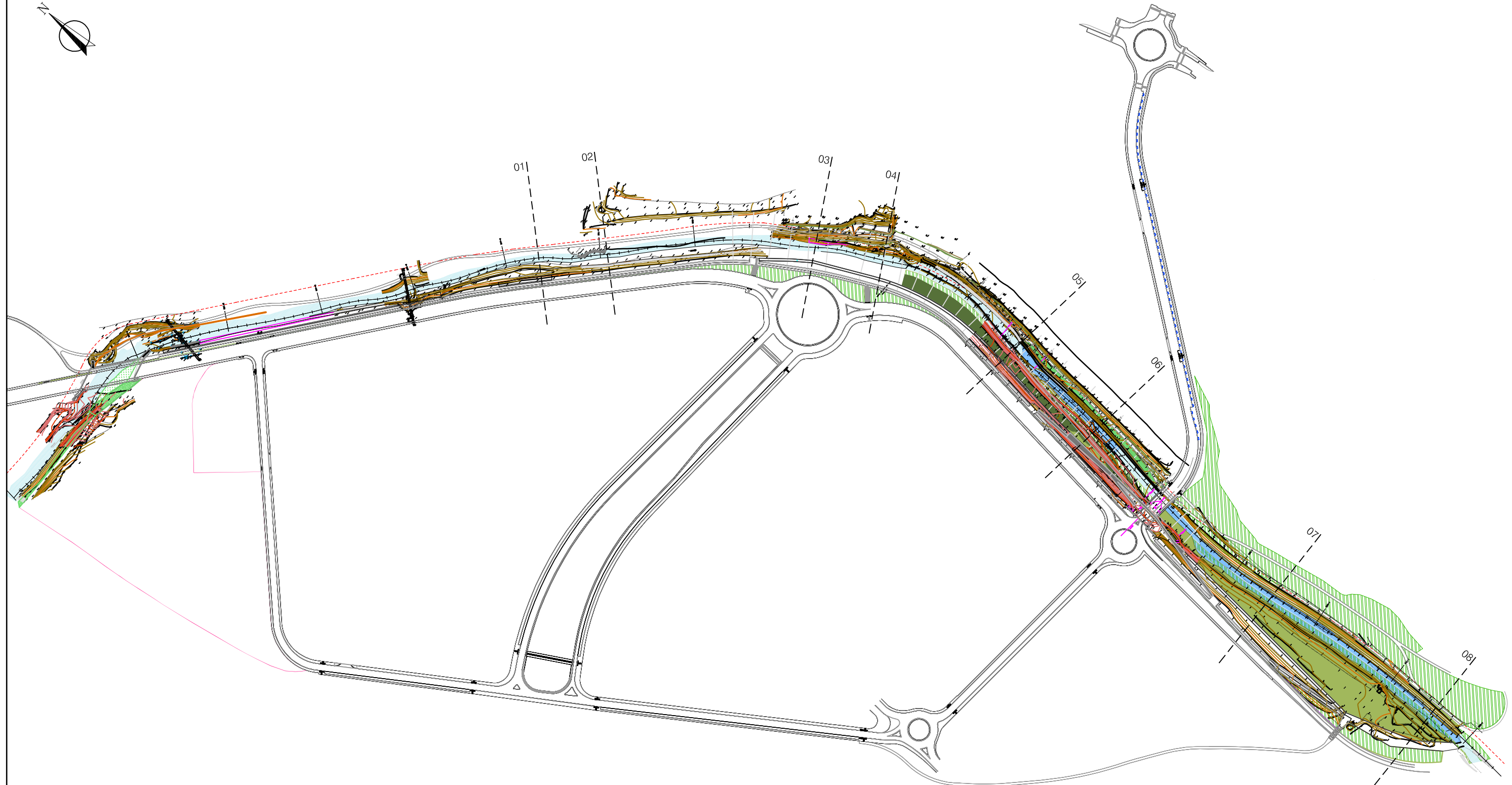
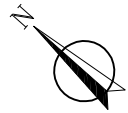
El projecte de l'endegament del riu, que en el tram final, un dels seus marges pertany al municipi de Badia del Vallès, va ser sotmès a informació per part de l'Agència Catalana de l'Aigua, informe que va emetre el 13 de novembre de 2007, exp. UDPH2007001623, en el que s'autoritaven les obres i es condicionava a la creació d'una comissió de seguiment integrada per l'Ajuntament de Sabadell, la Direcció de les Obres, la Promotora de les obres i la mateixa Agència Catalana de l'Aigua, on s'hi tractarien les qüestions en marxa en cada moment.





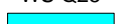
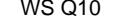
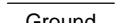

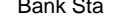
Posteriorment, la Promotora va encarregar el projecte d'ordenació de les zones verdes dins de l'àmbit d'actuació del Sector, on estan inclosos els marges del riu.

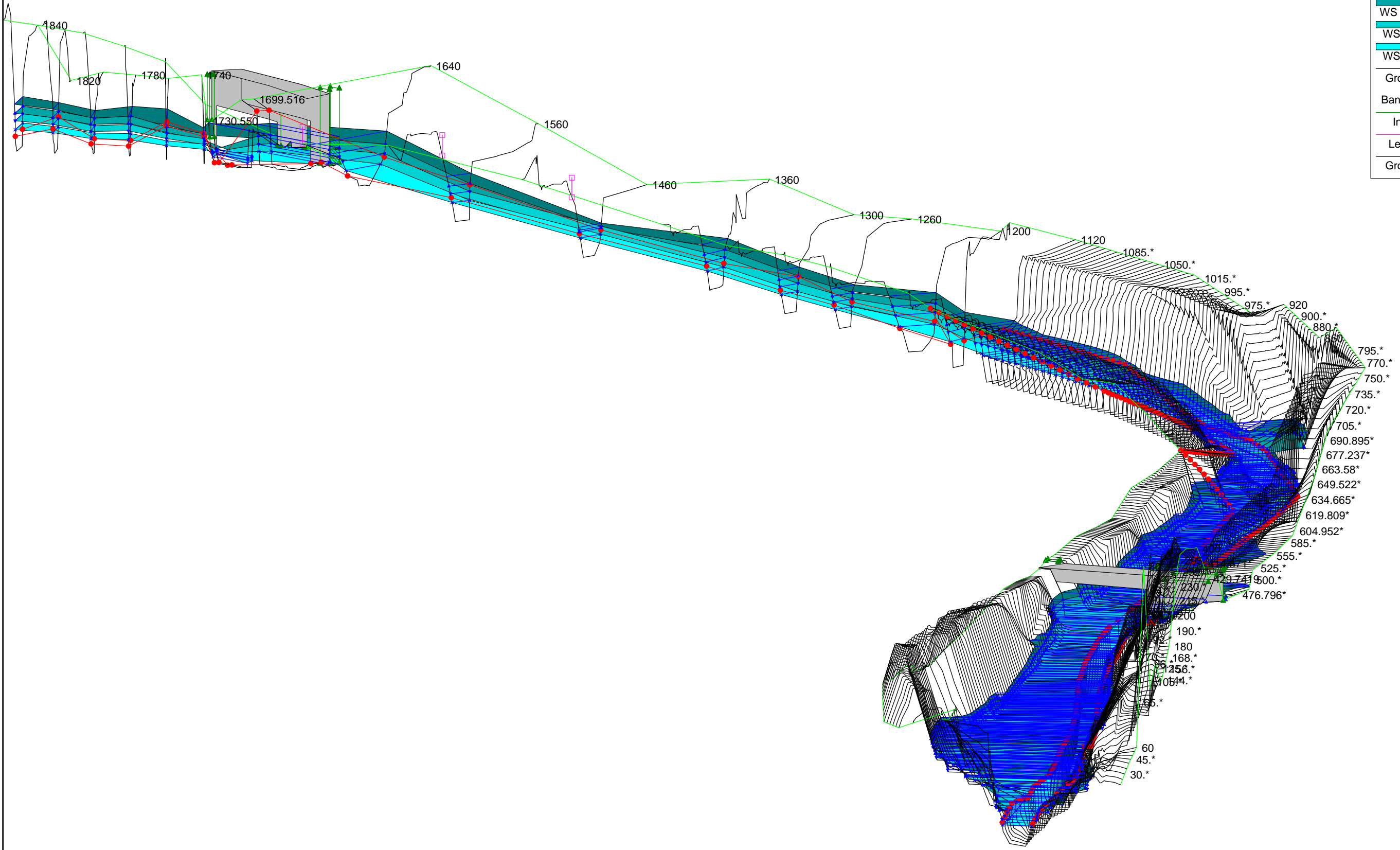
Les propostes de tractament dels marges, tan en el marge de Sabadell com en el de Badia, modificaven lleugerament el traçat del riu, la qual cosa va comportar la revisió de l'anàlisi hidràulica del curs fluvial.

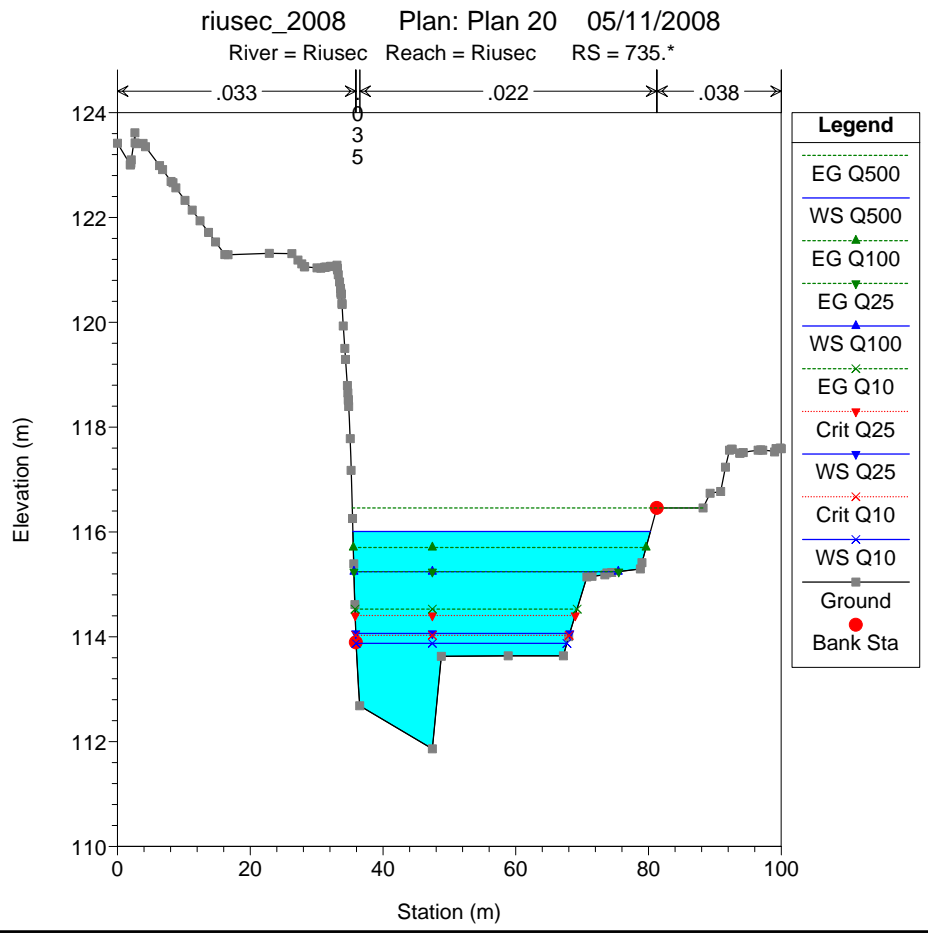
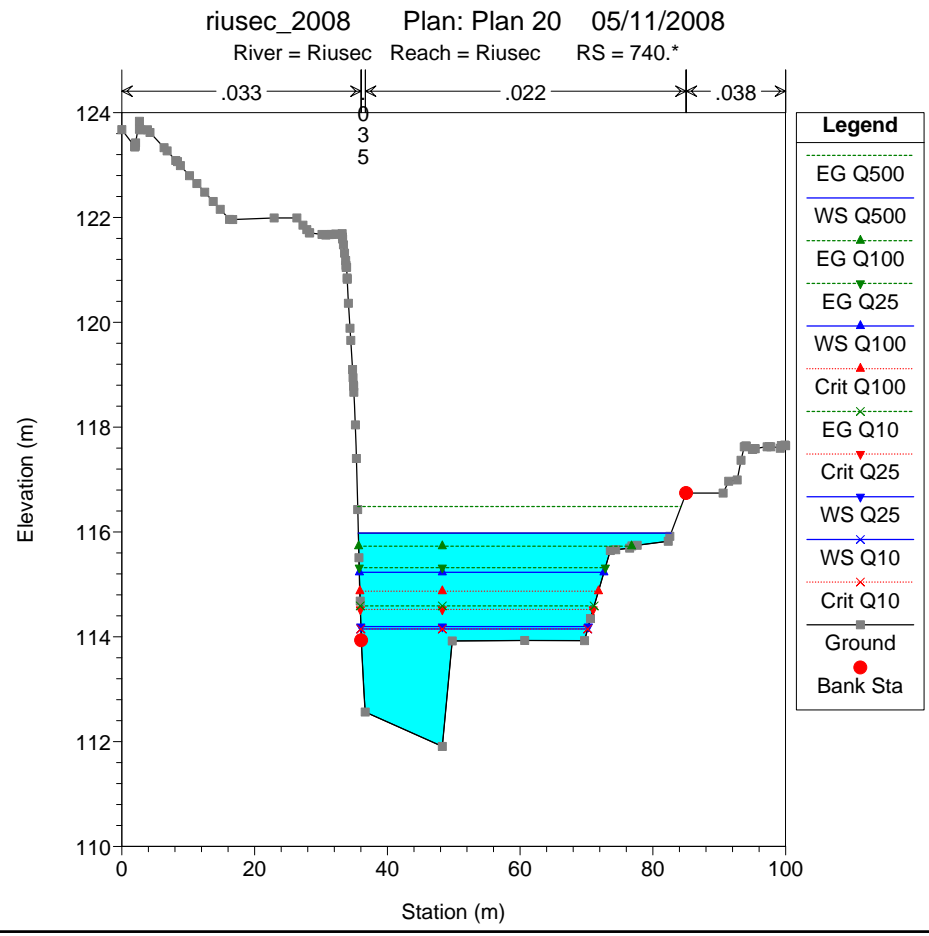
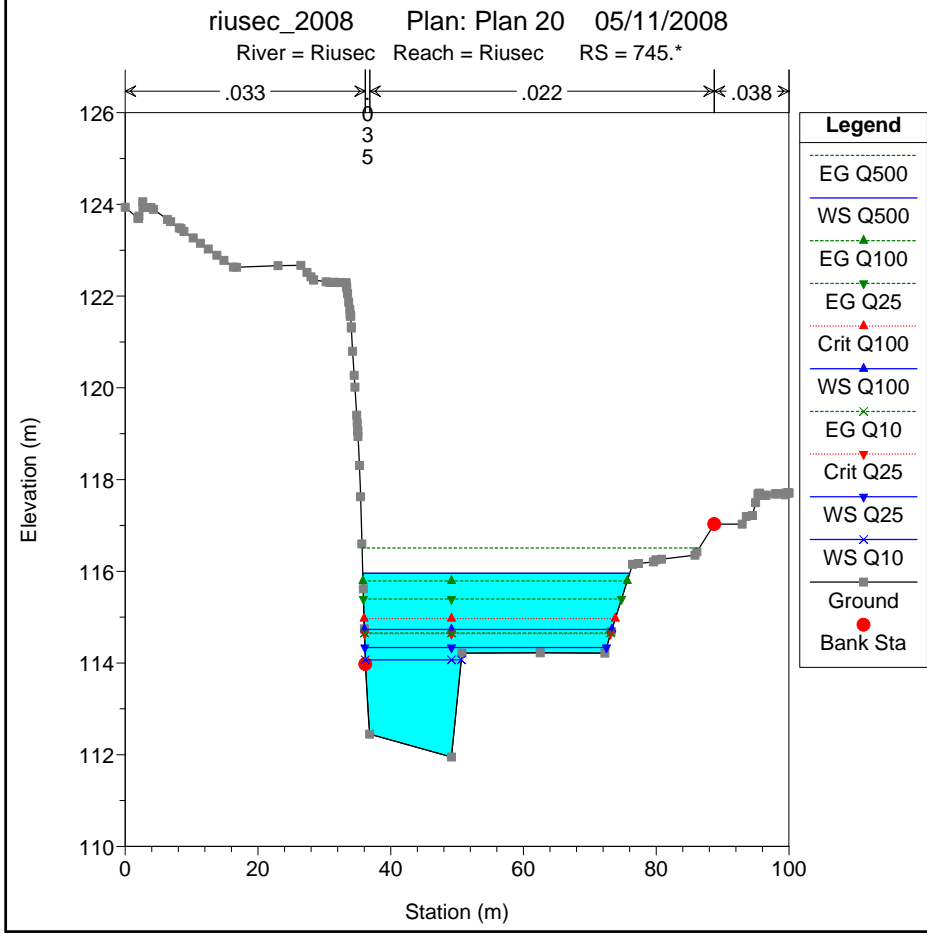
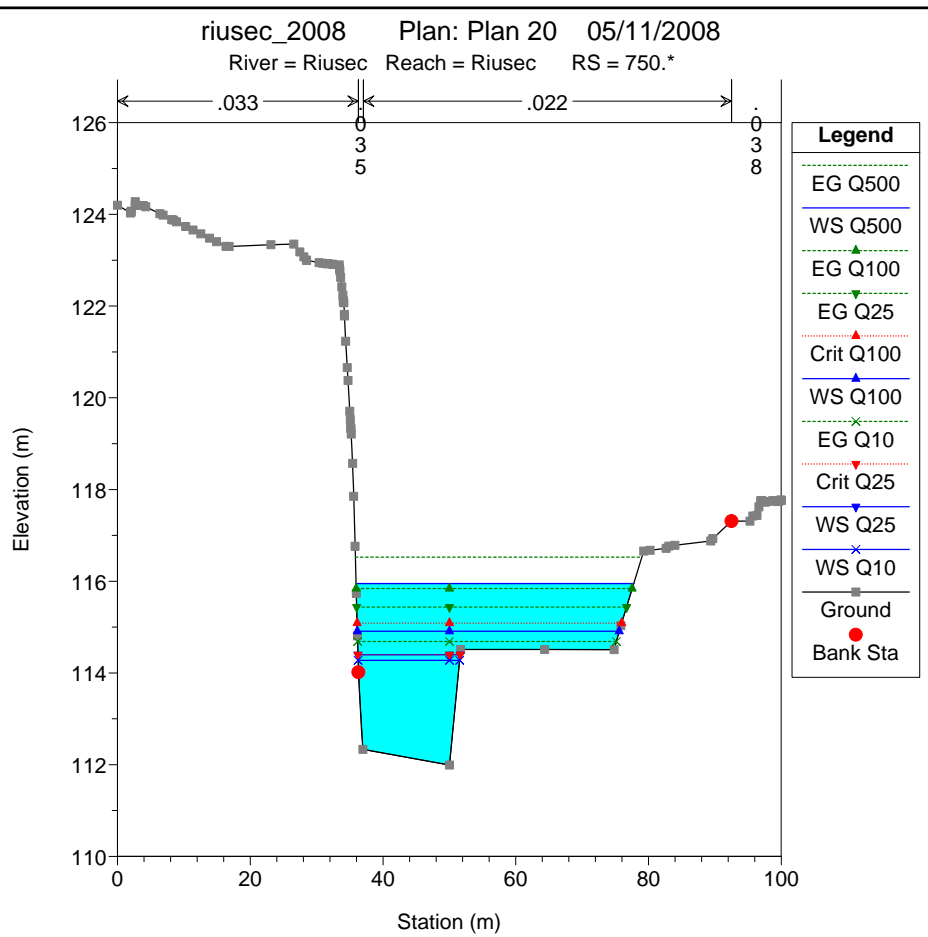
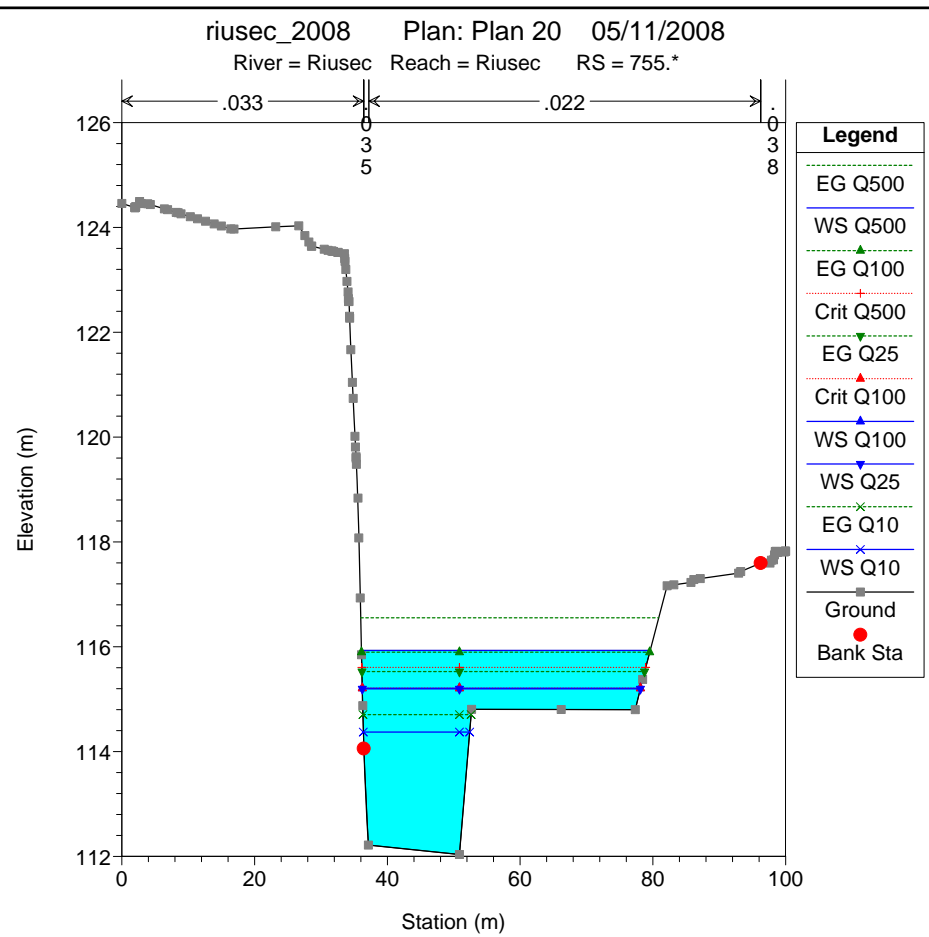
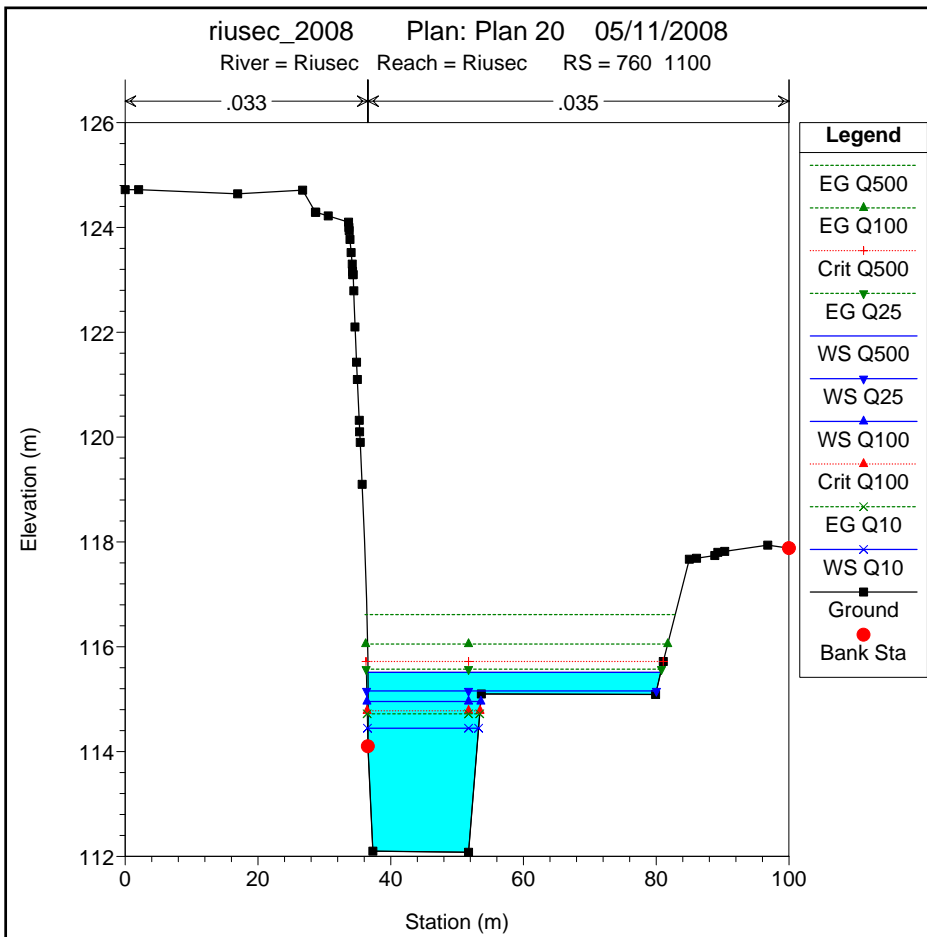
Després d'una primera desbrossada dels marges es va poder obtenir una topografia més real, el que ha permès més detall en l'estudi.

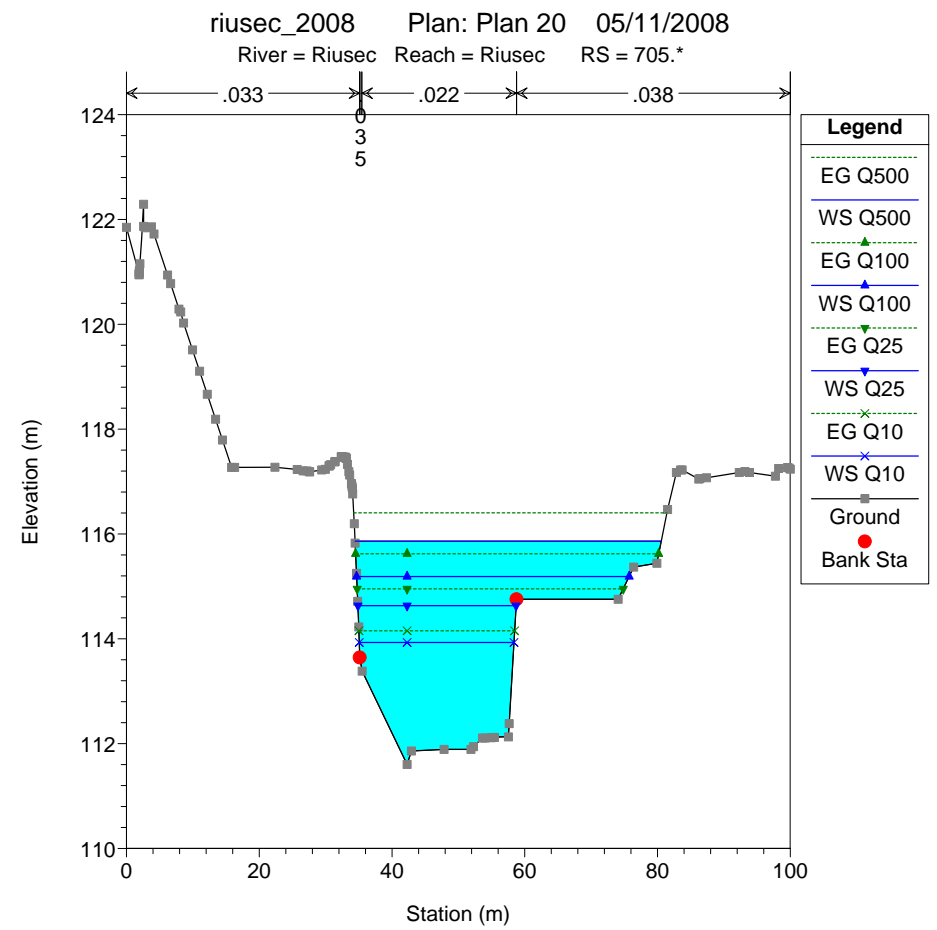
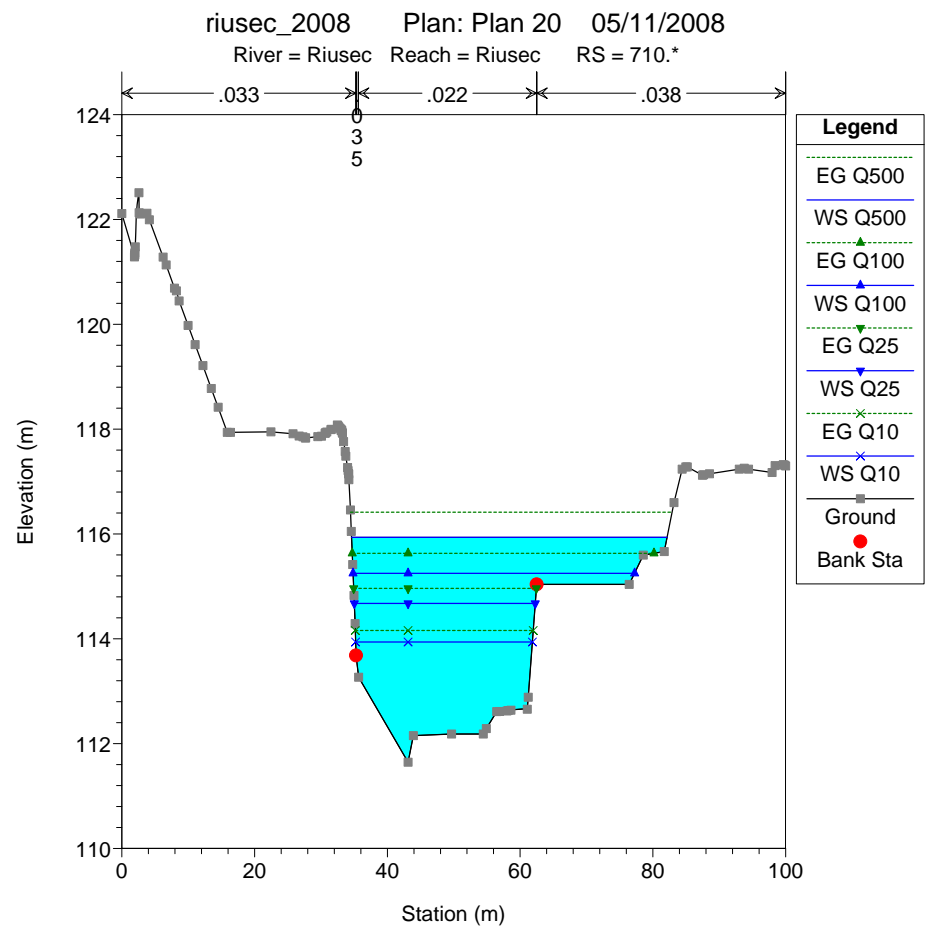
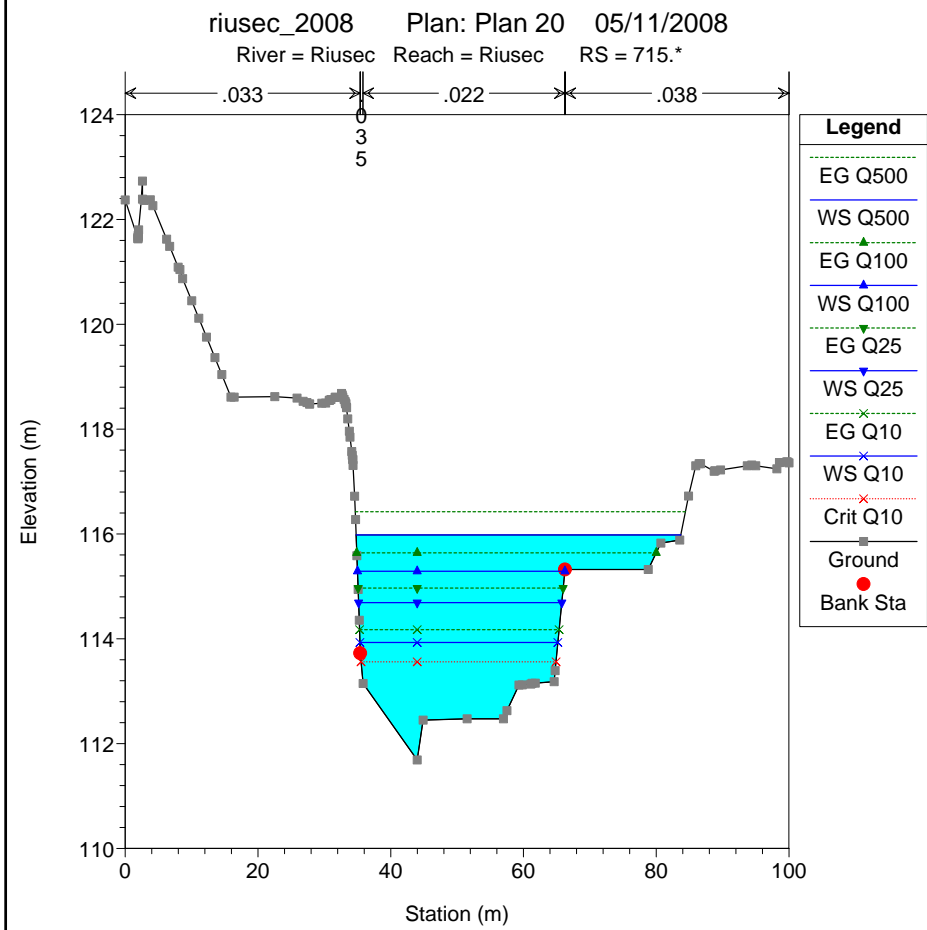
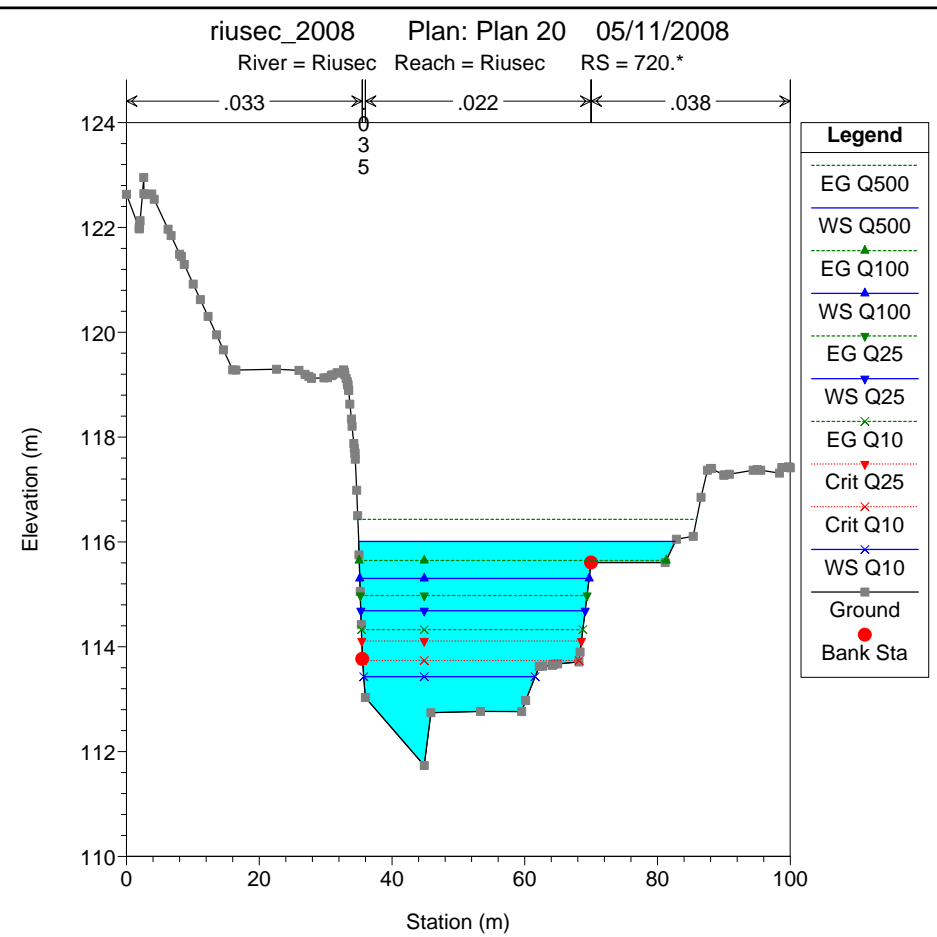
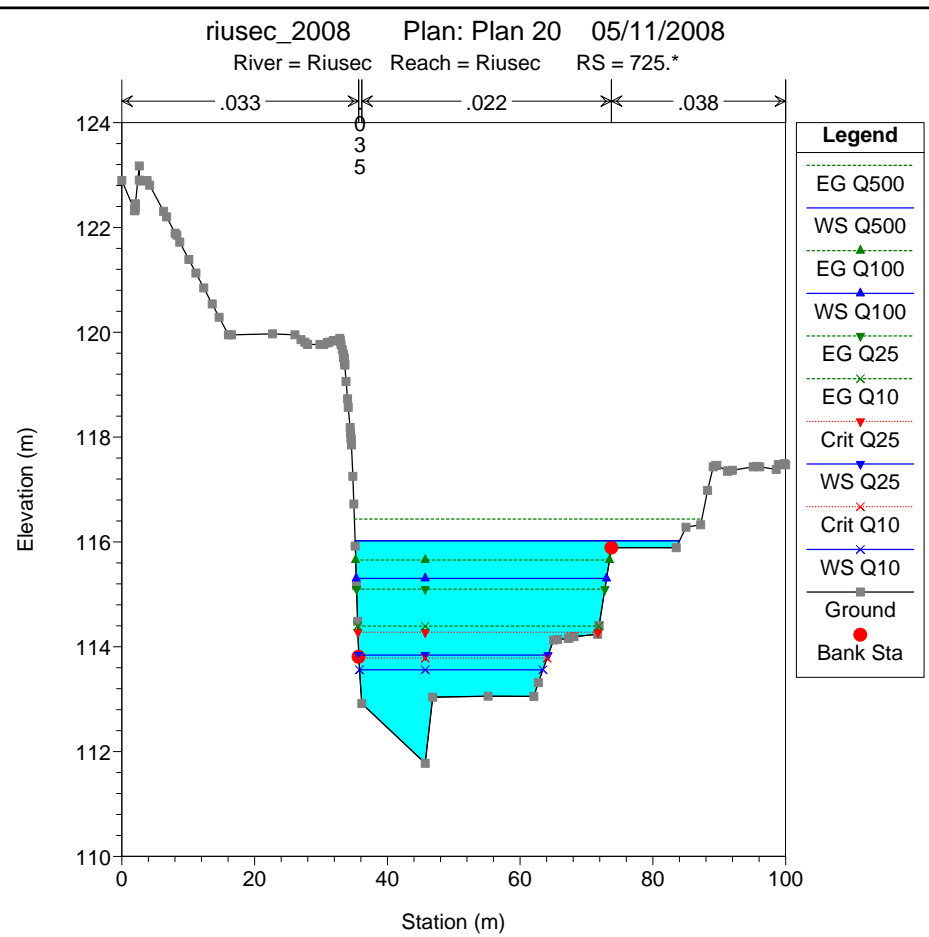
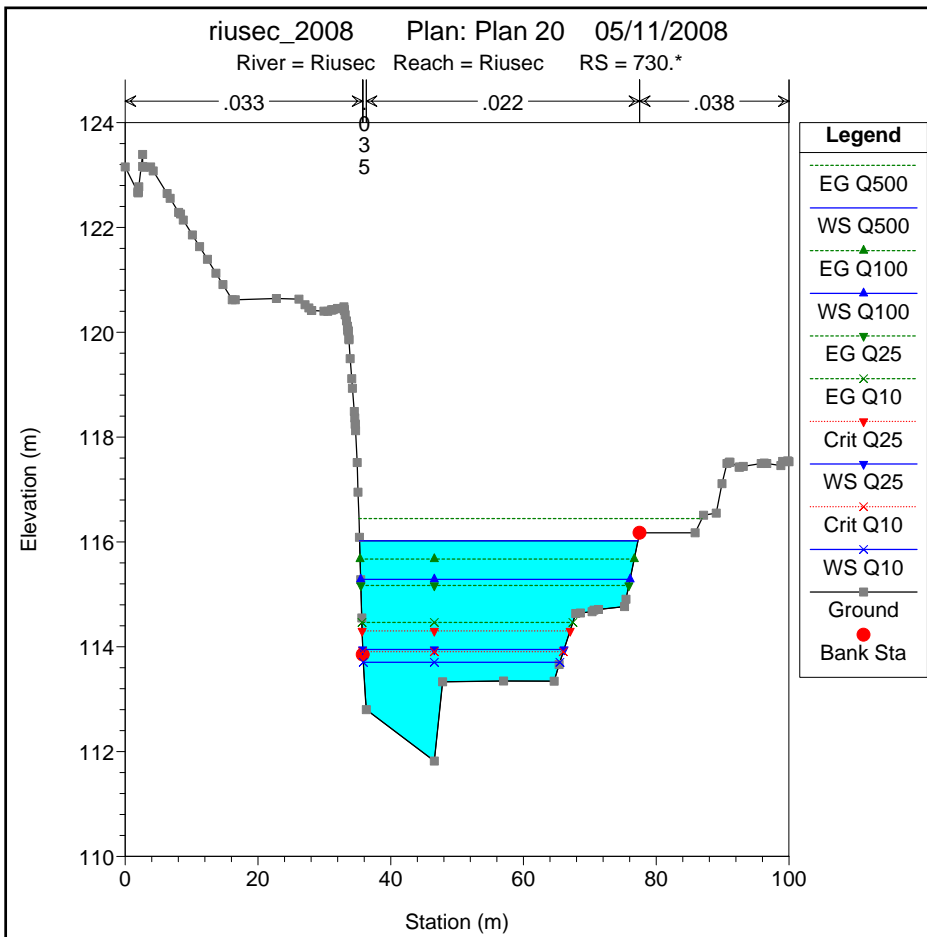
A continuació s'adjunta la nova modelització hidràulica amb plantes i seccions segons els períodes de retorn estudiats (10, 100 i 500 anys).

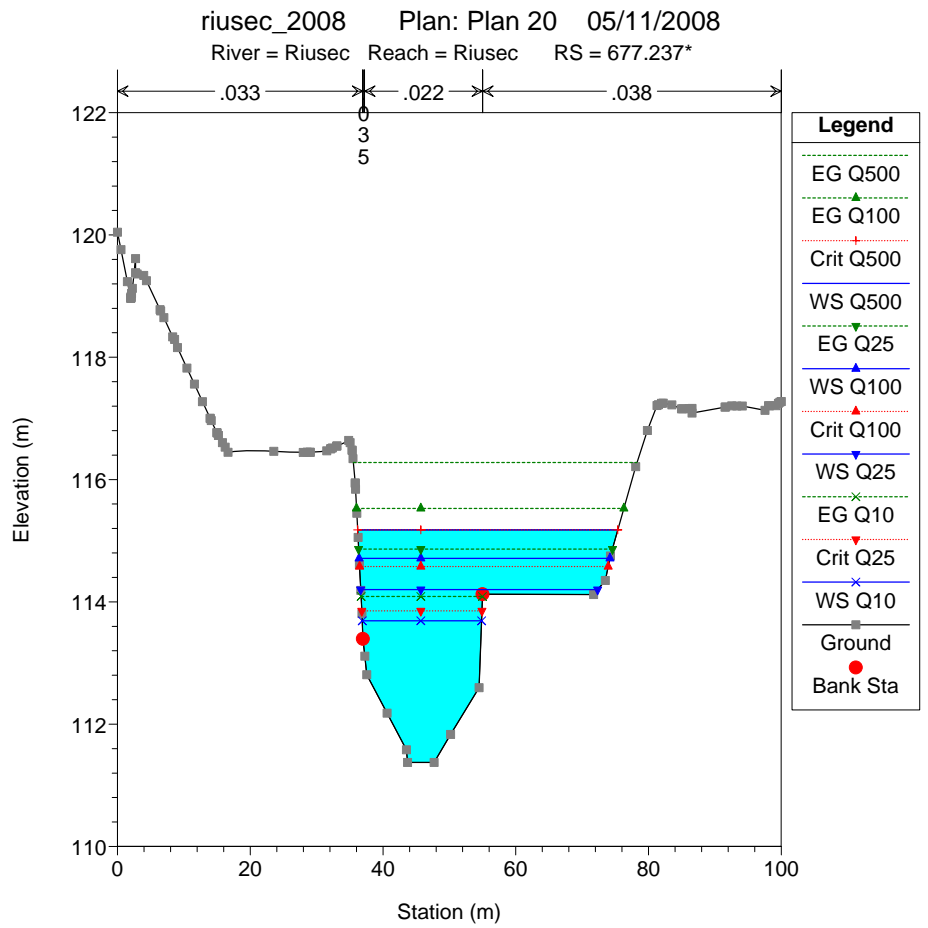
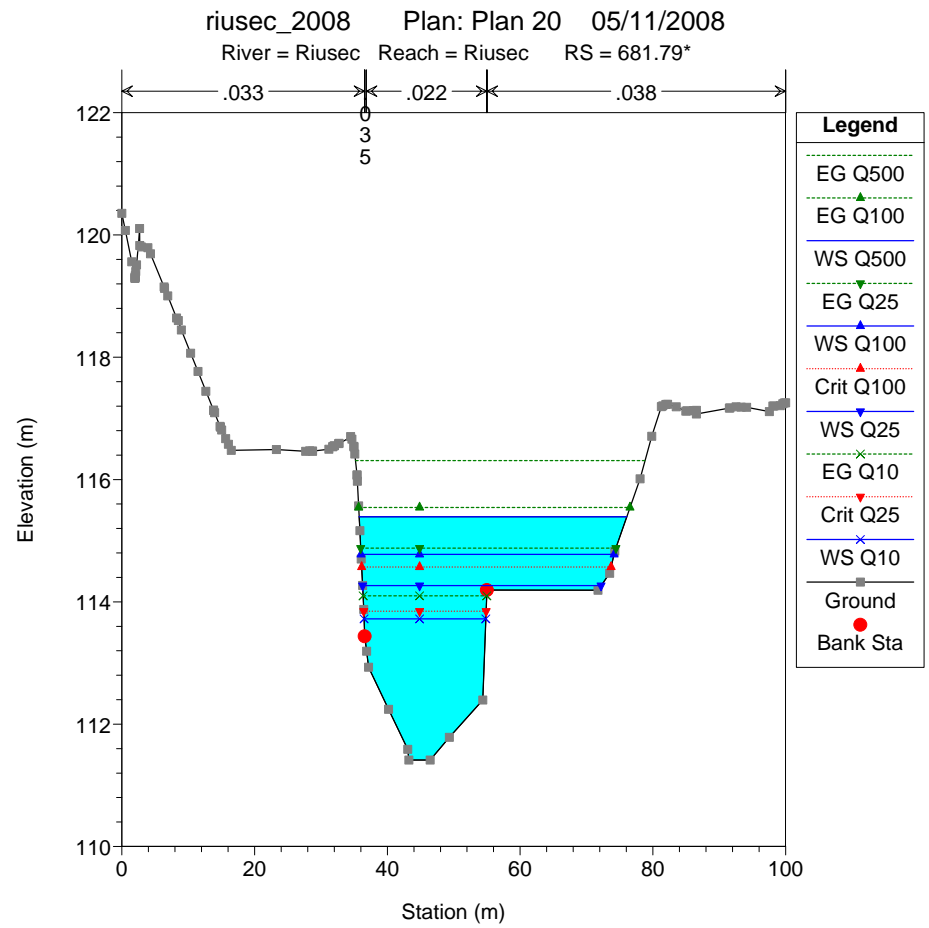
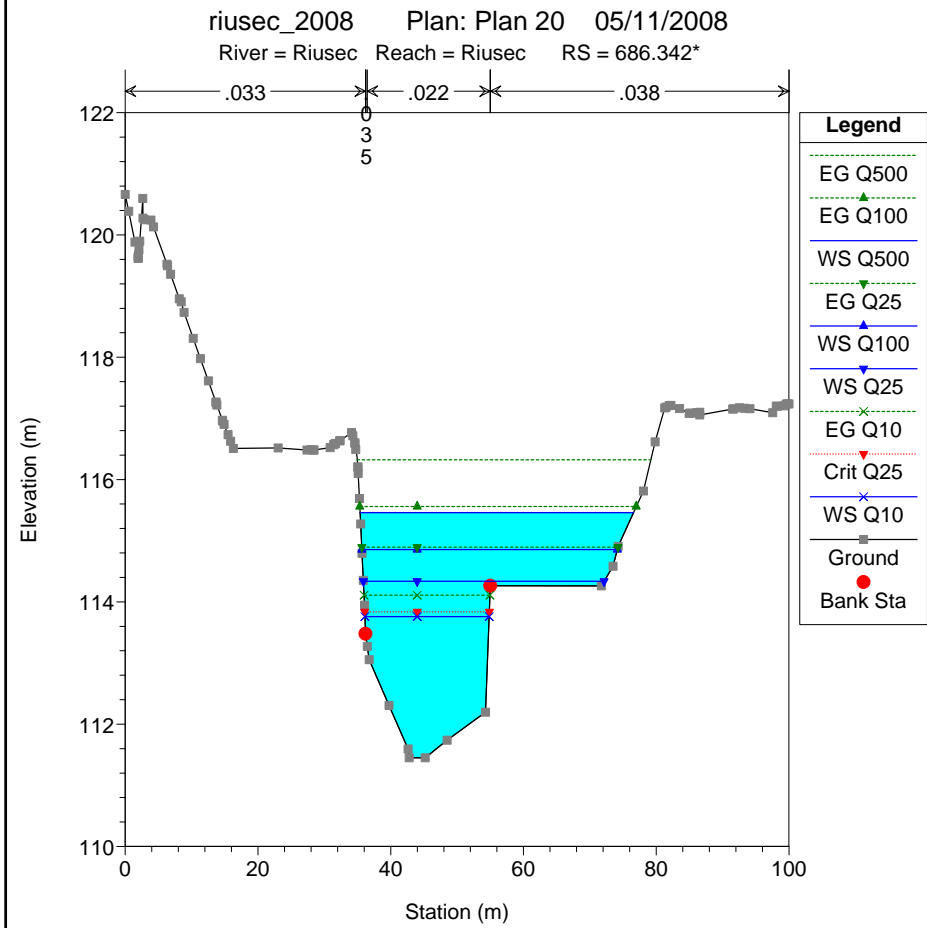
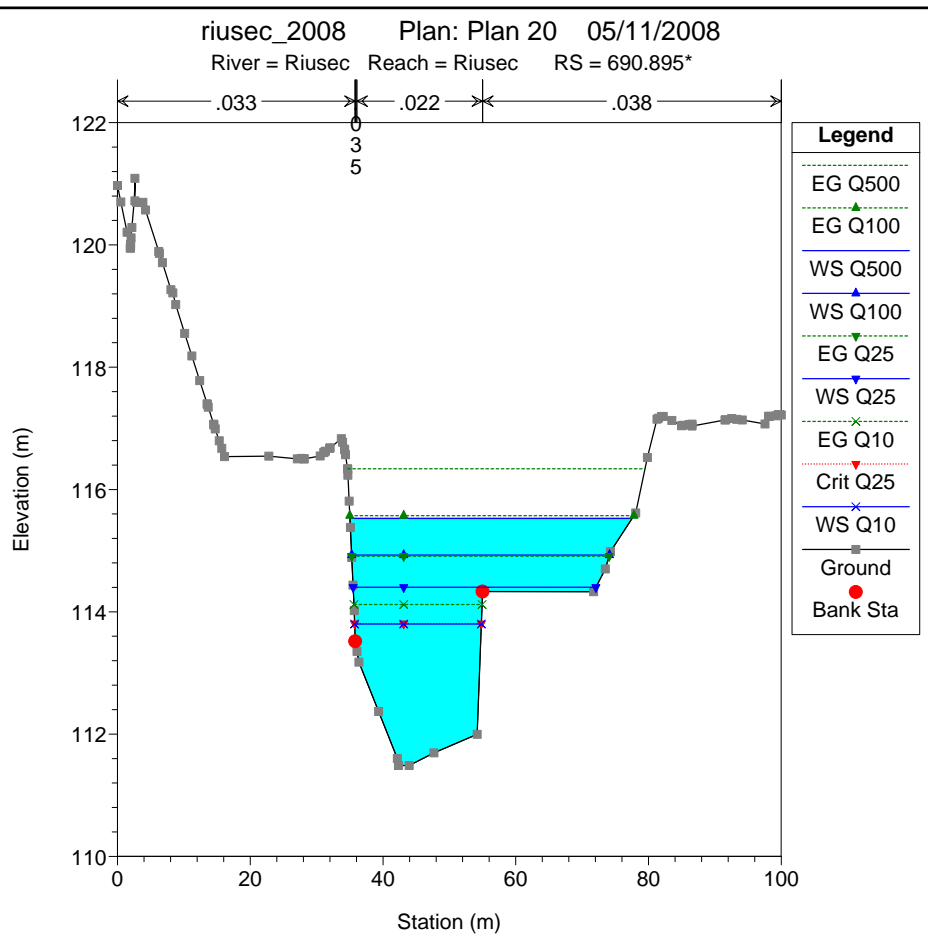
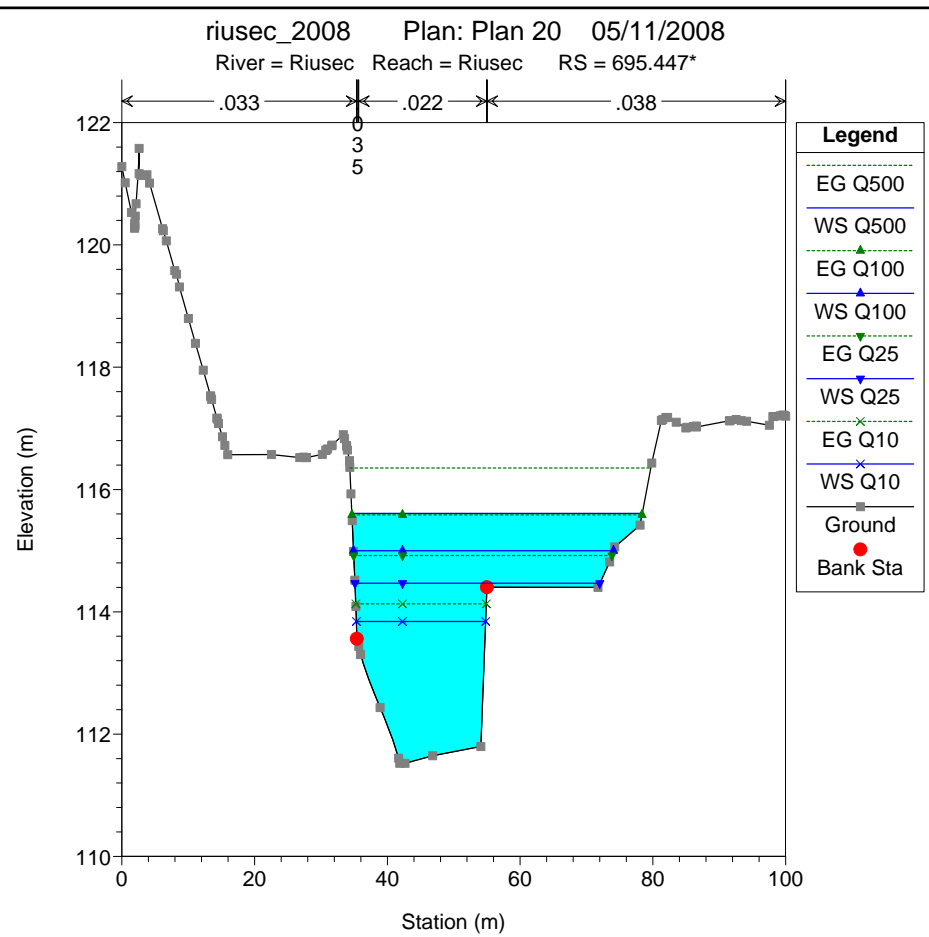
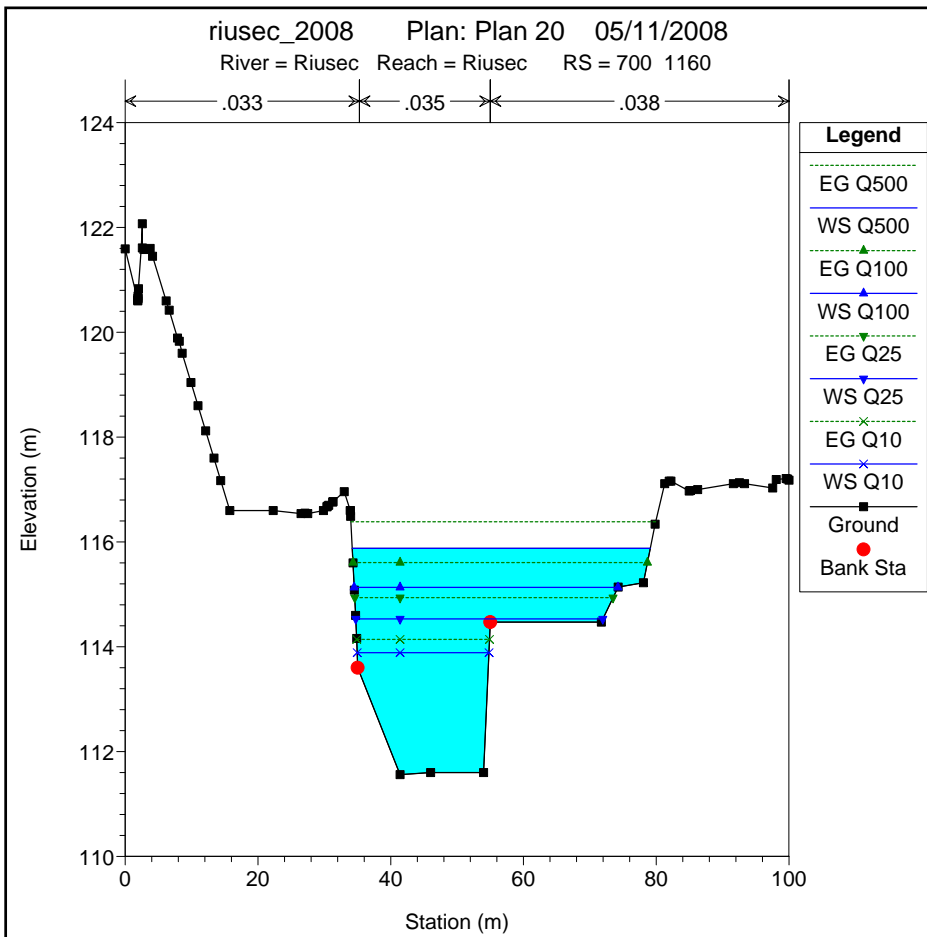


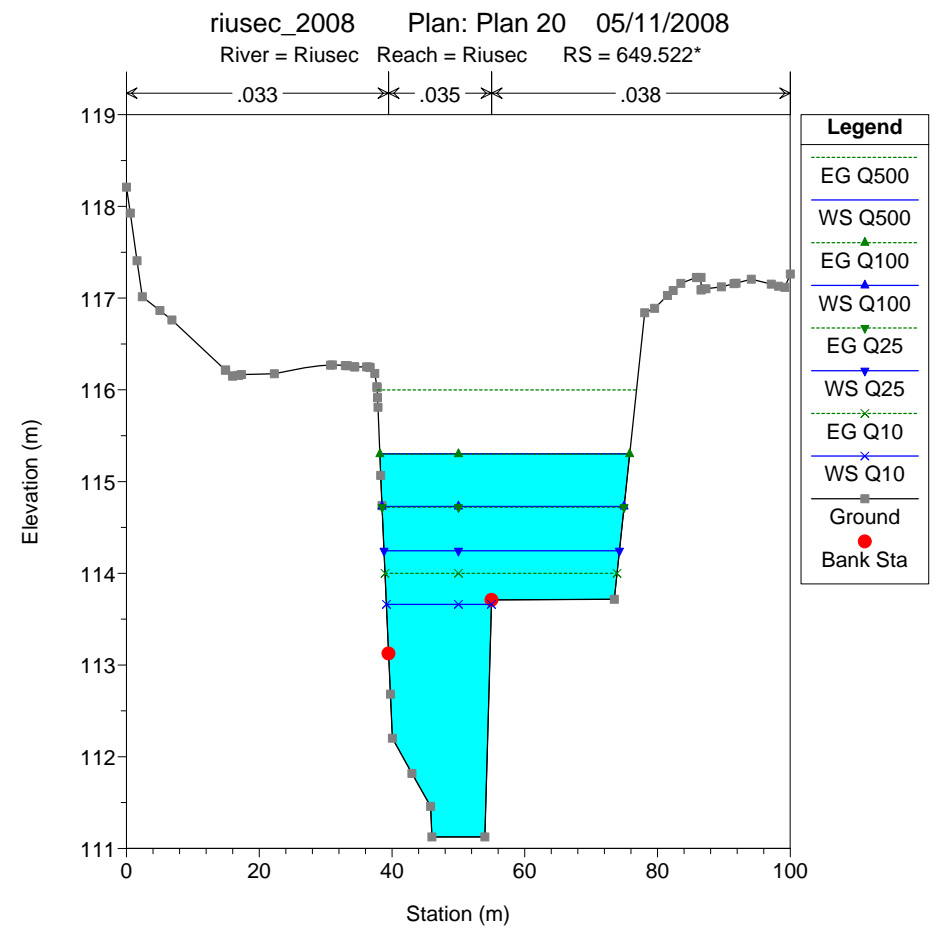
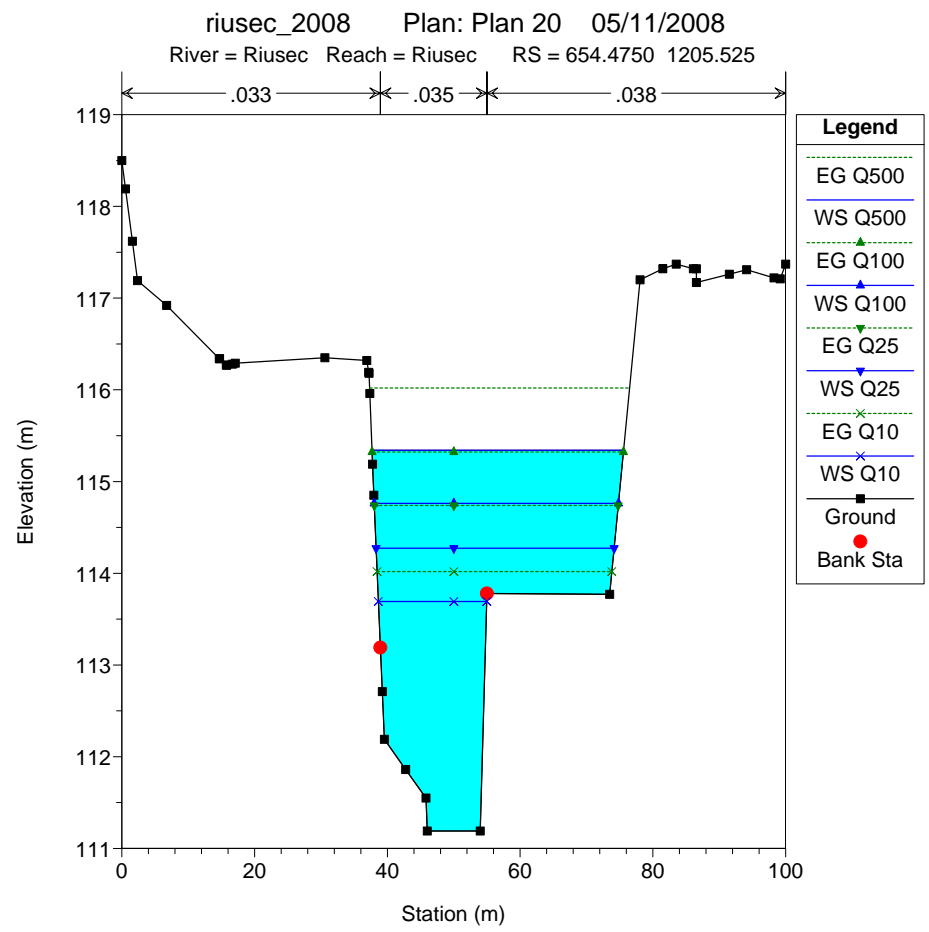
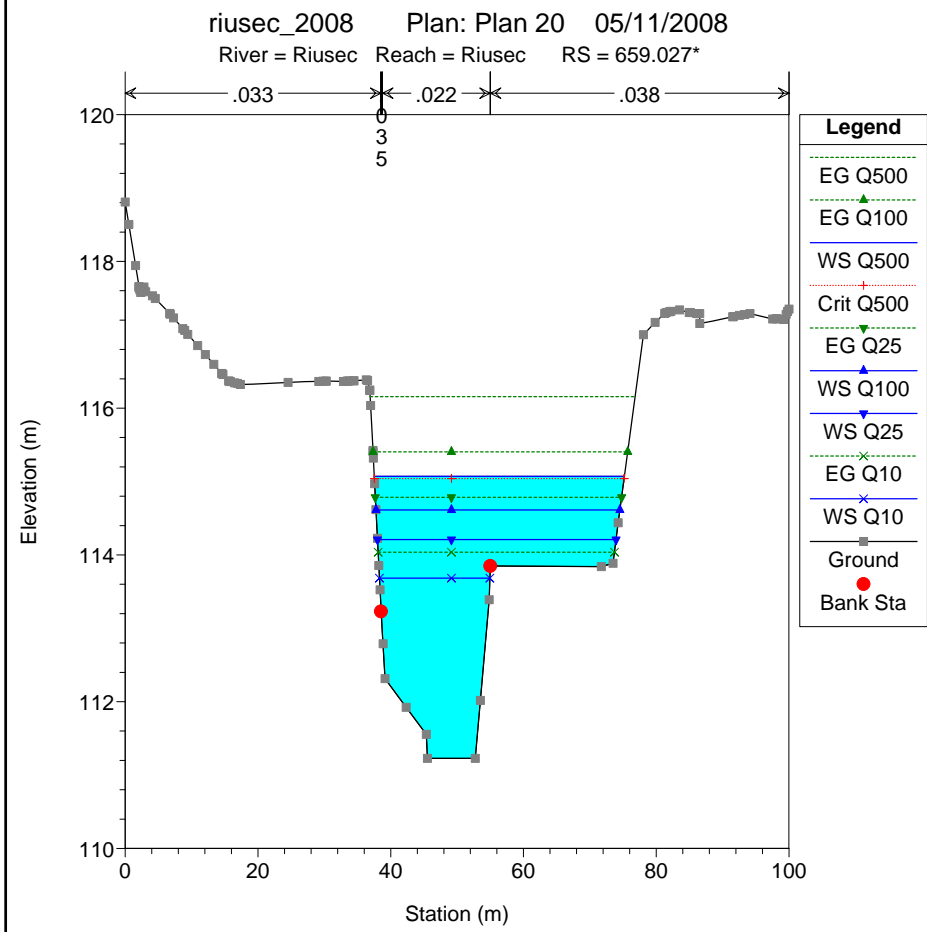
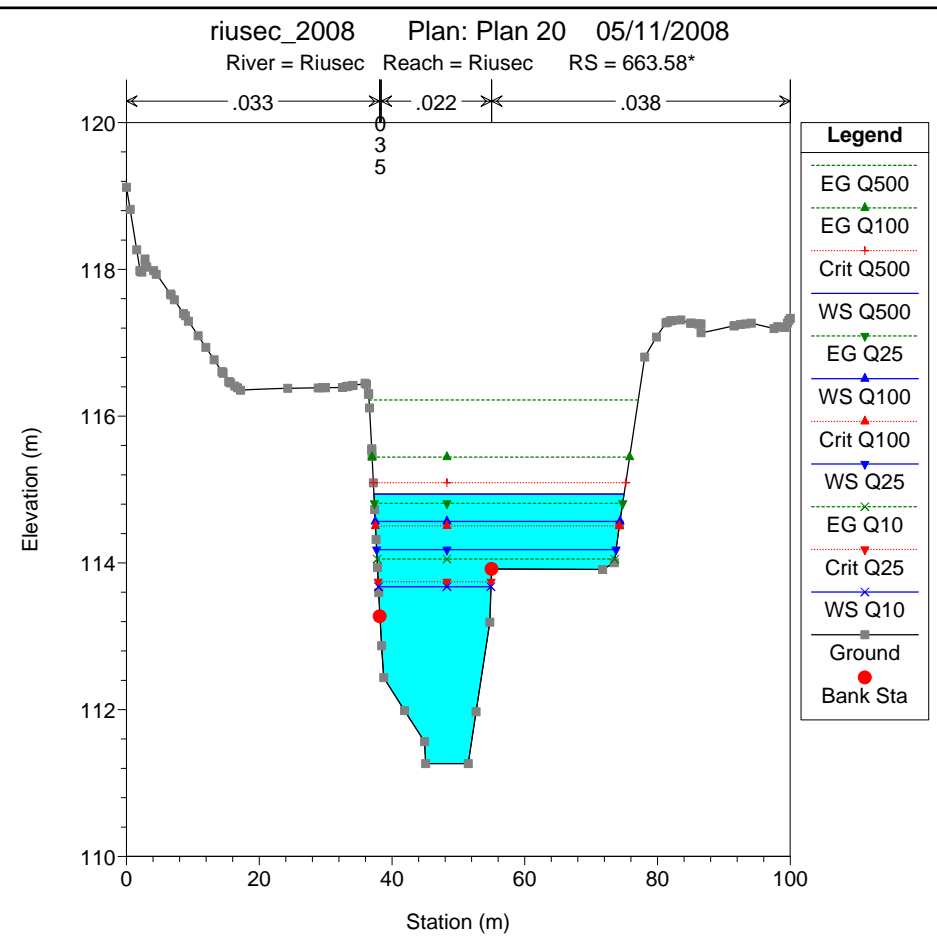
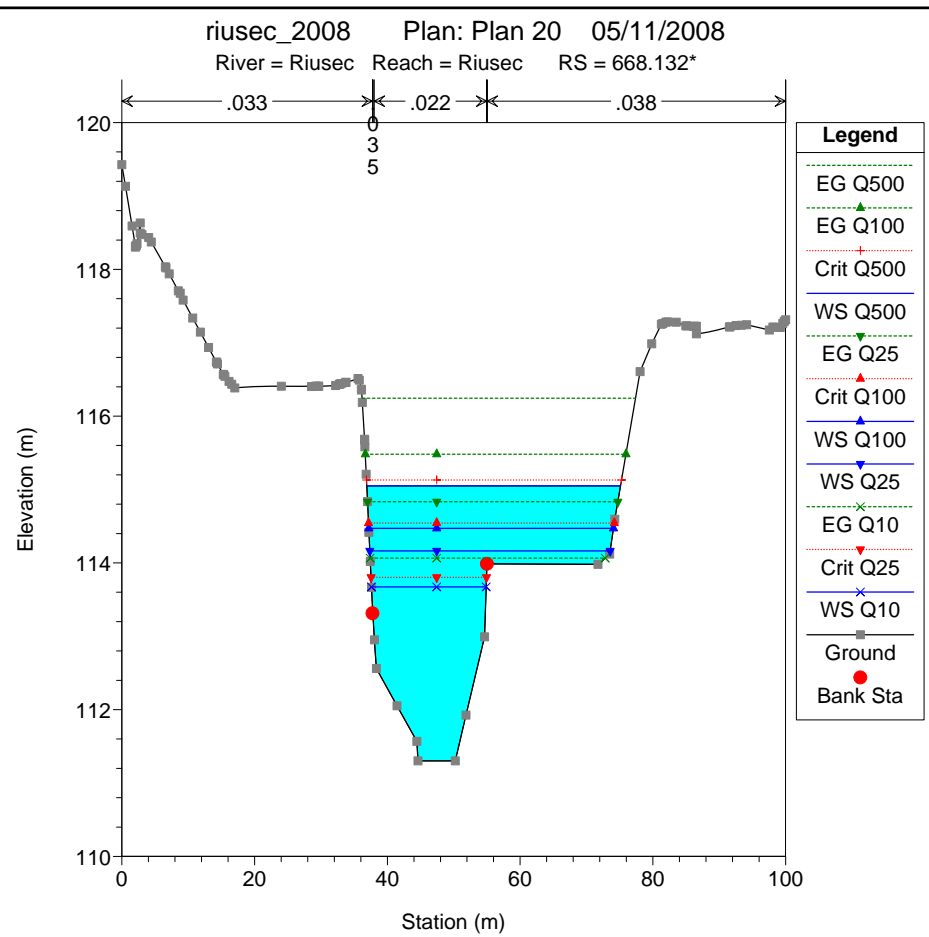
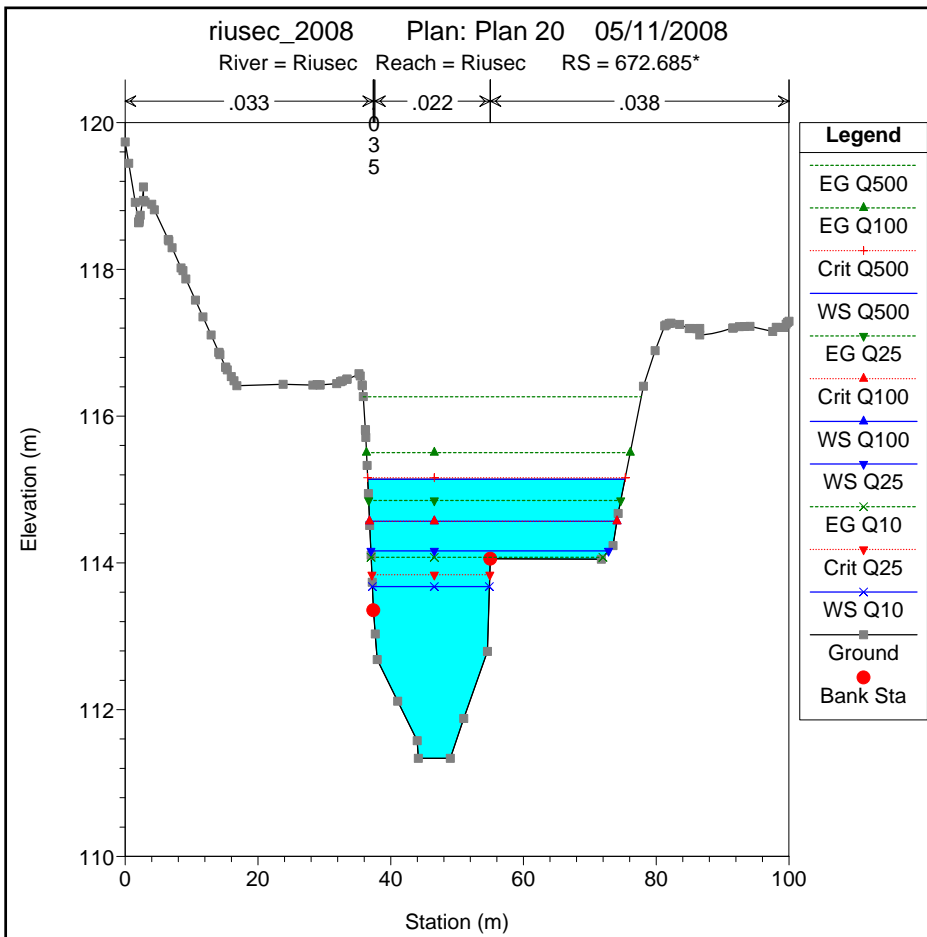
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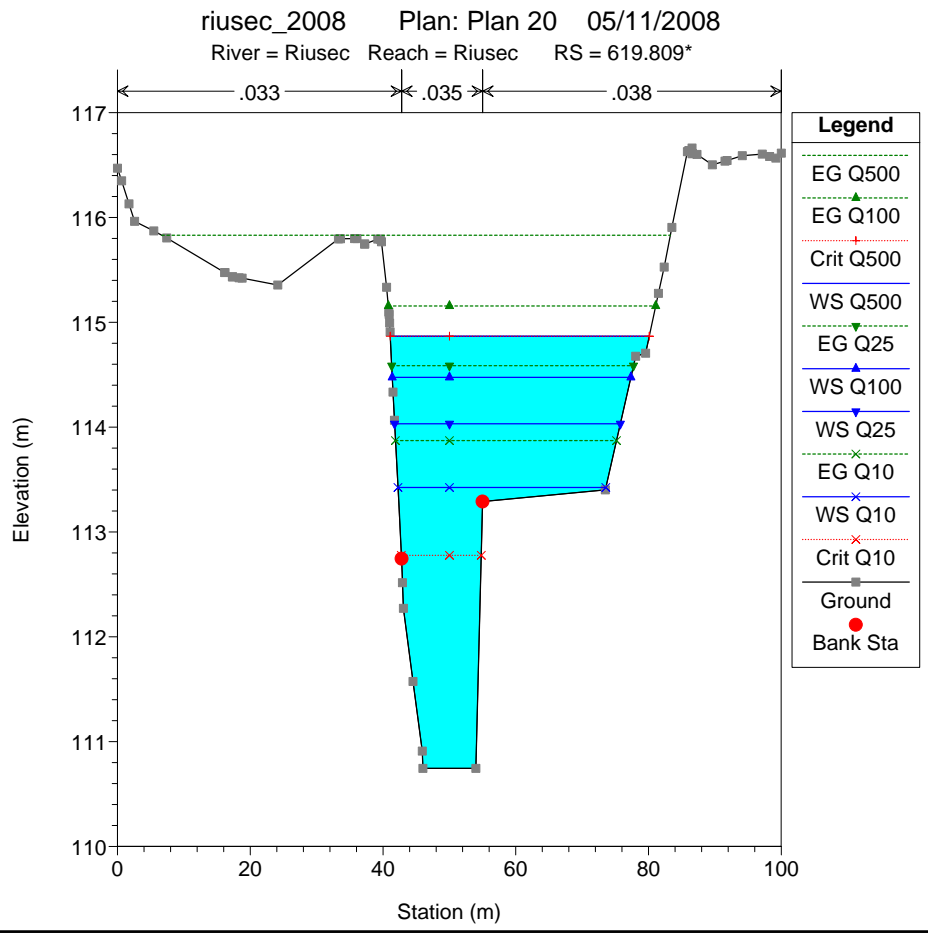
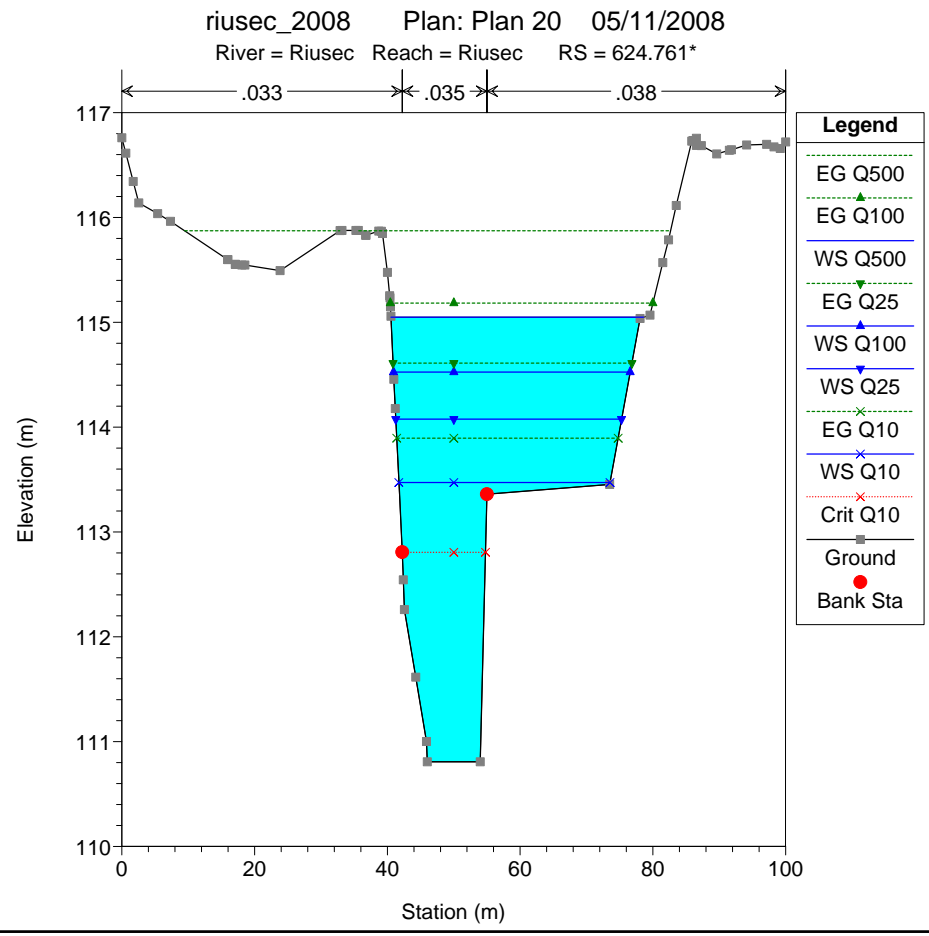
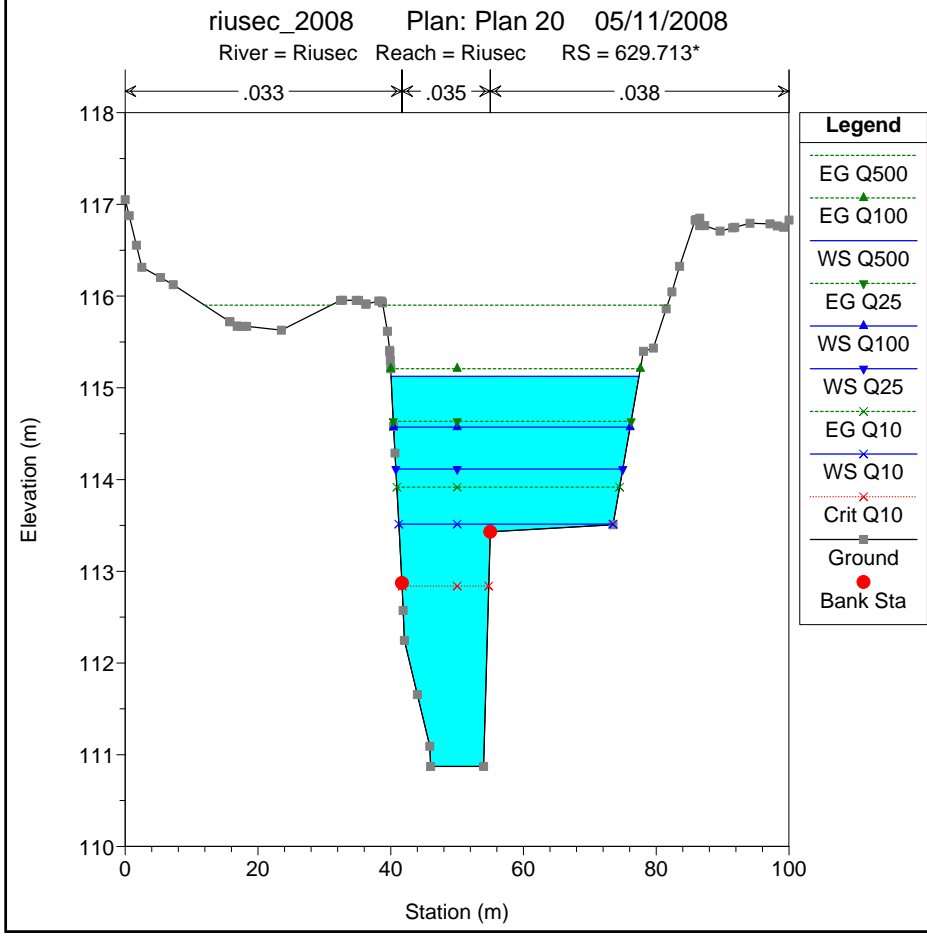
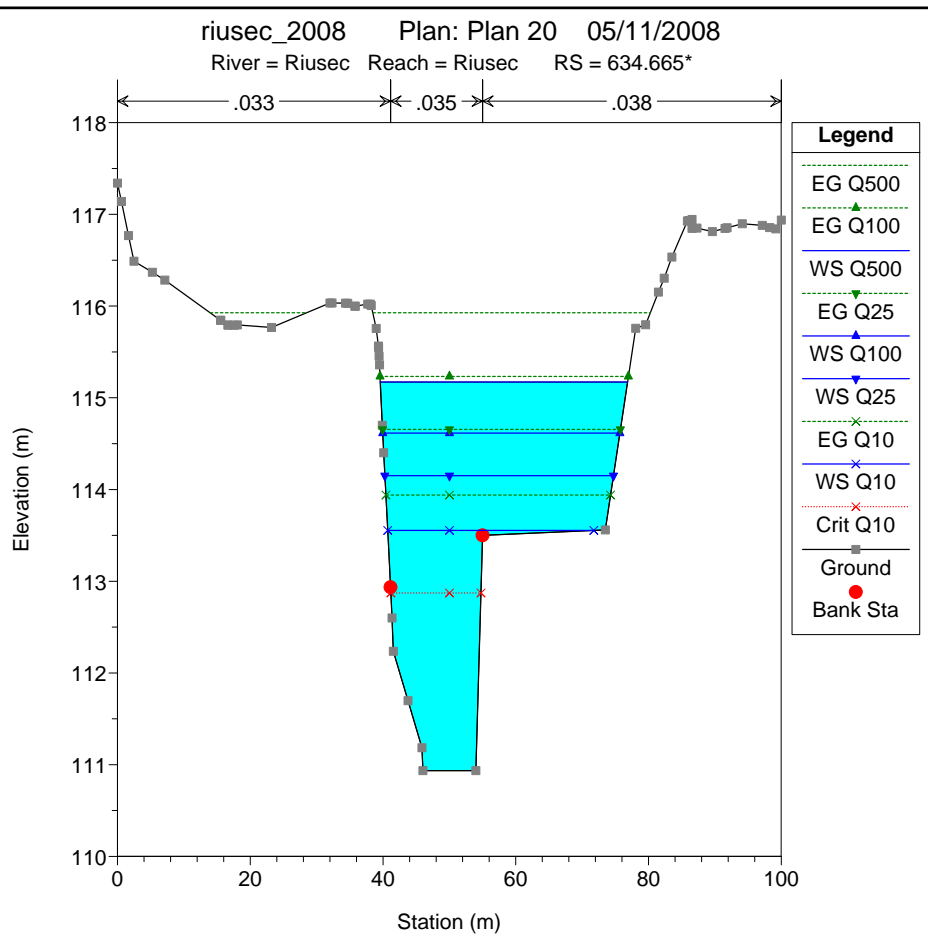
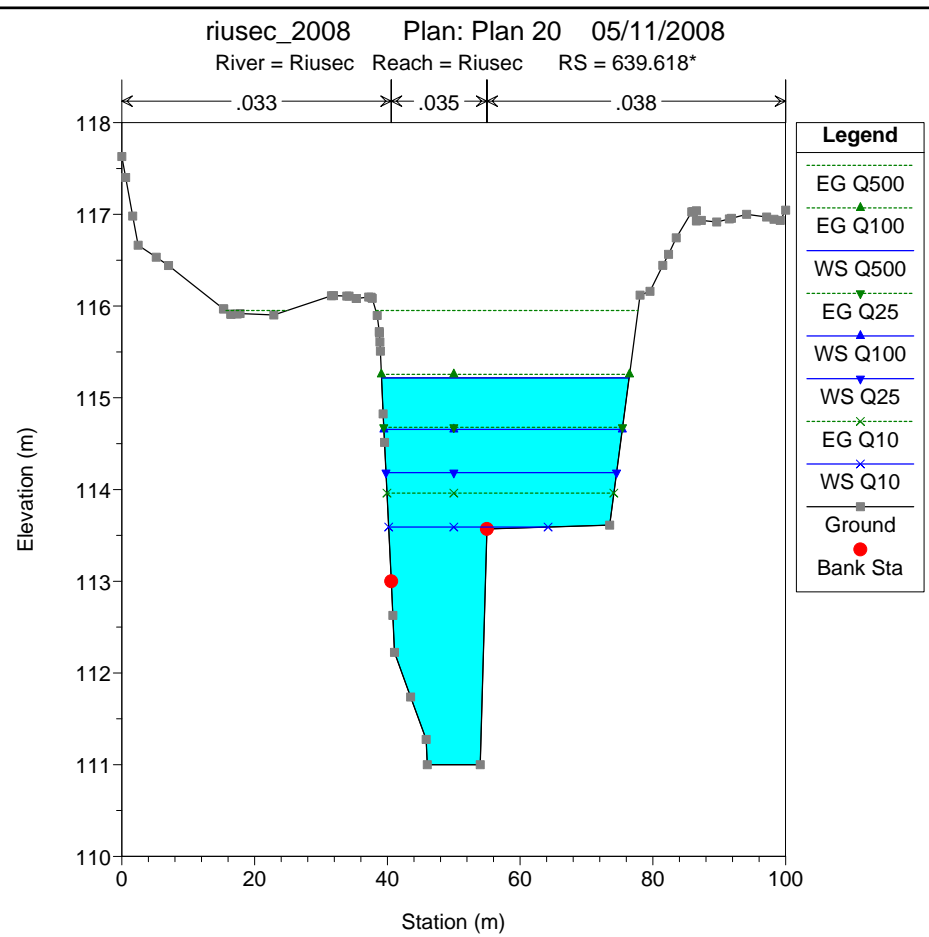
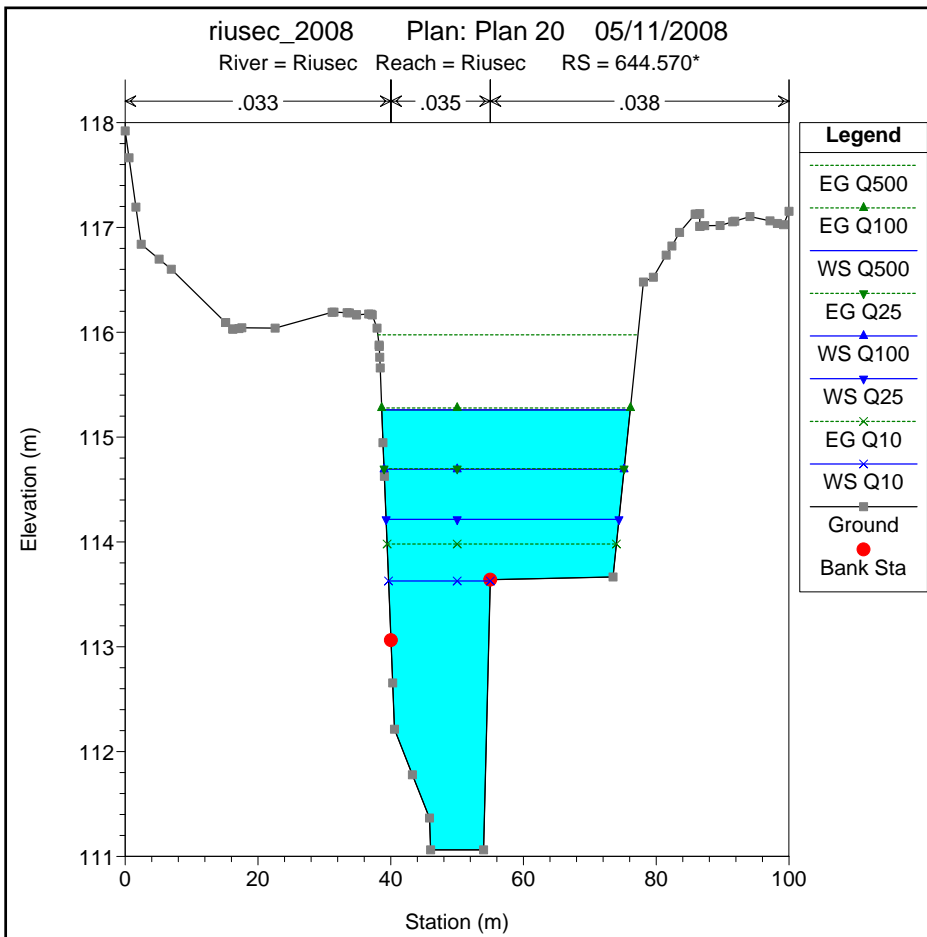


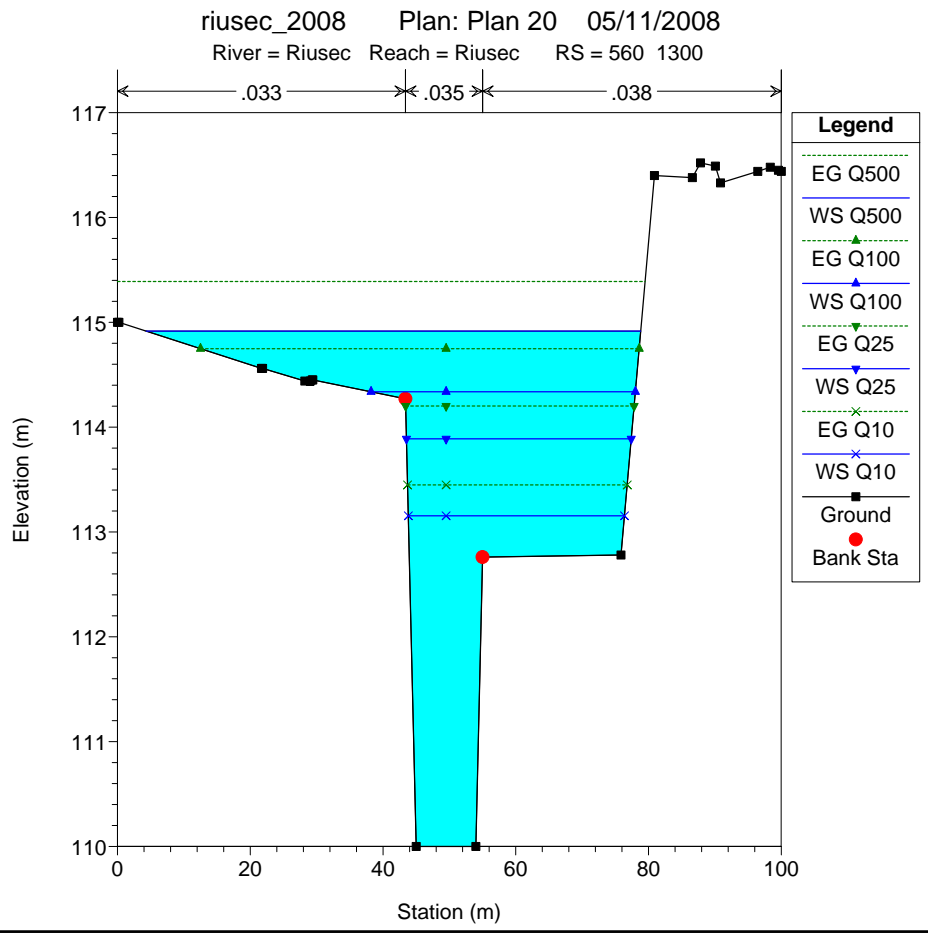
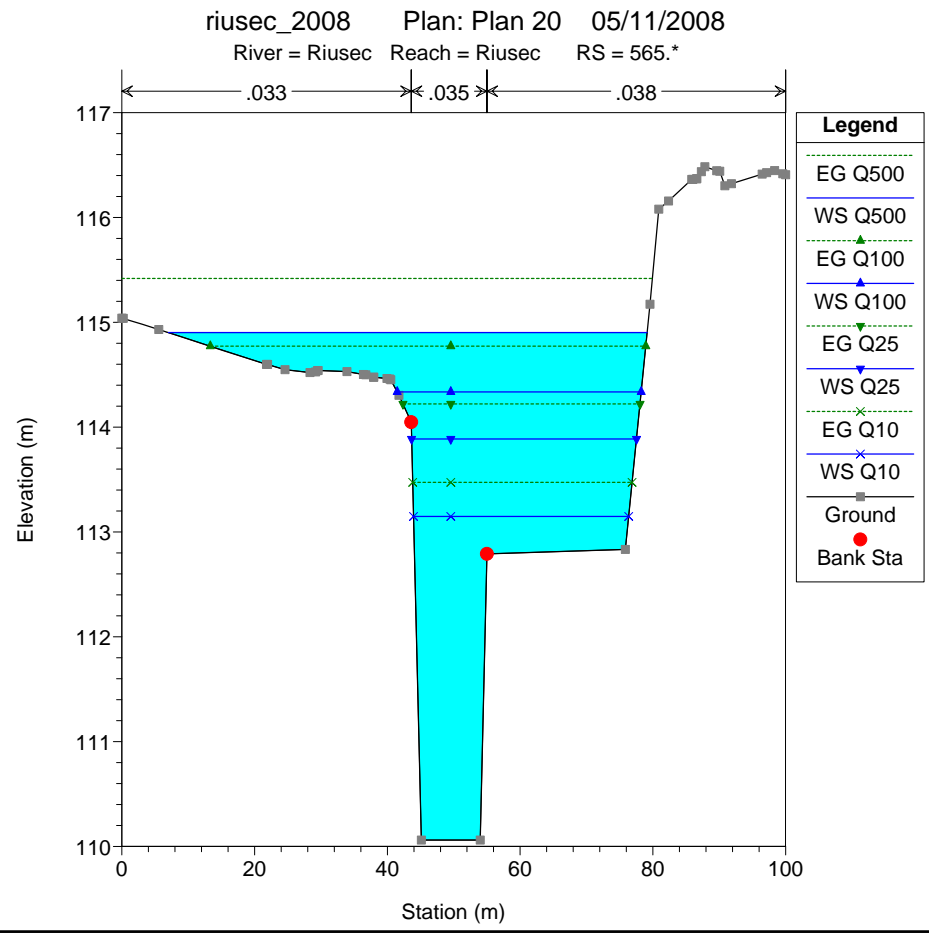
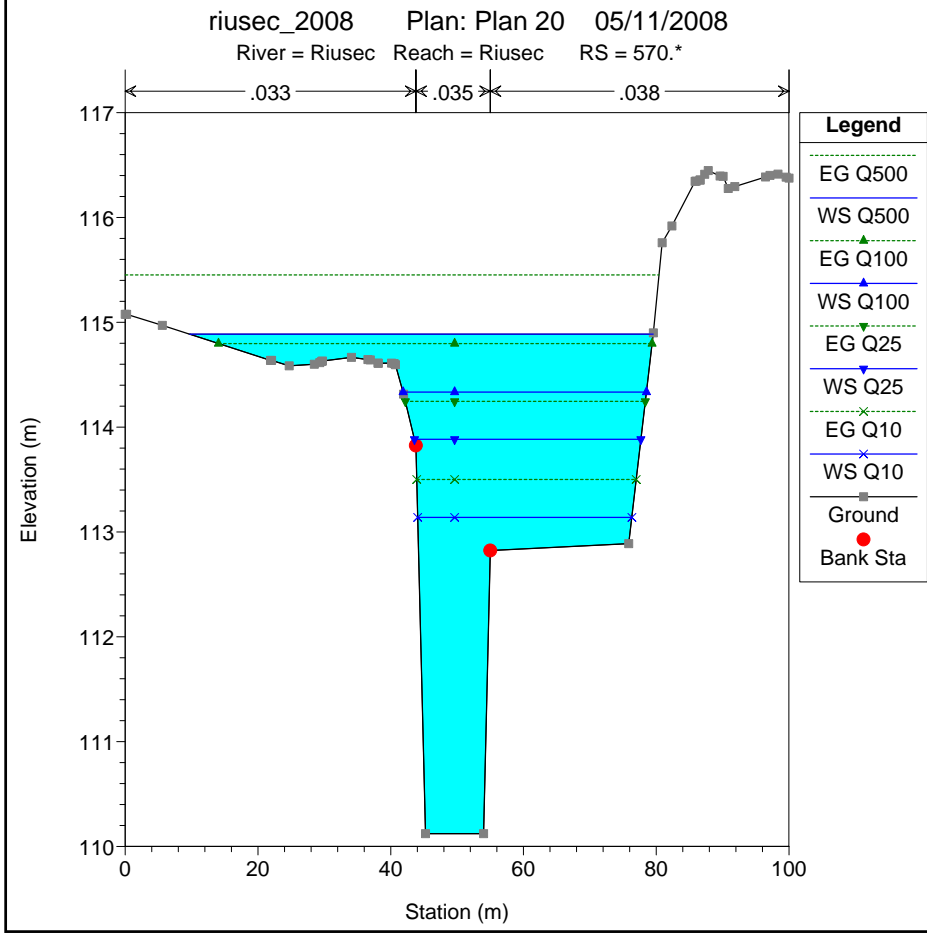
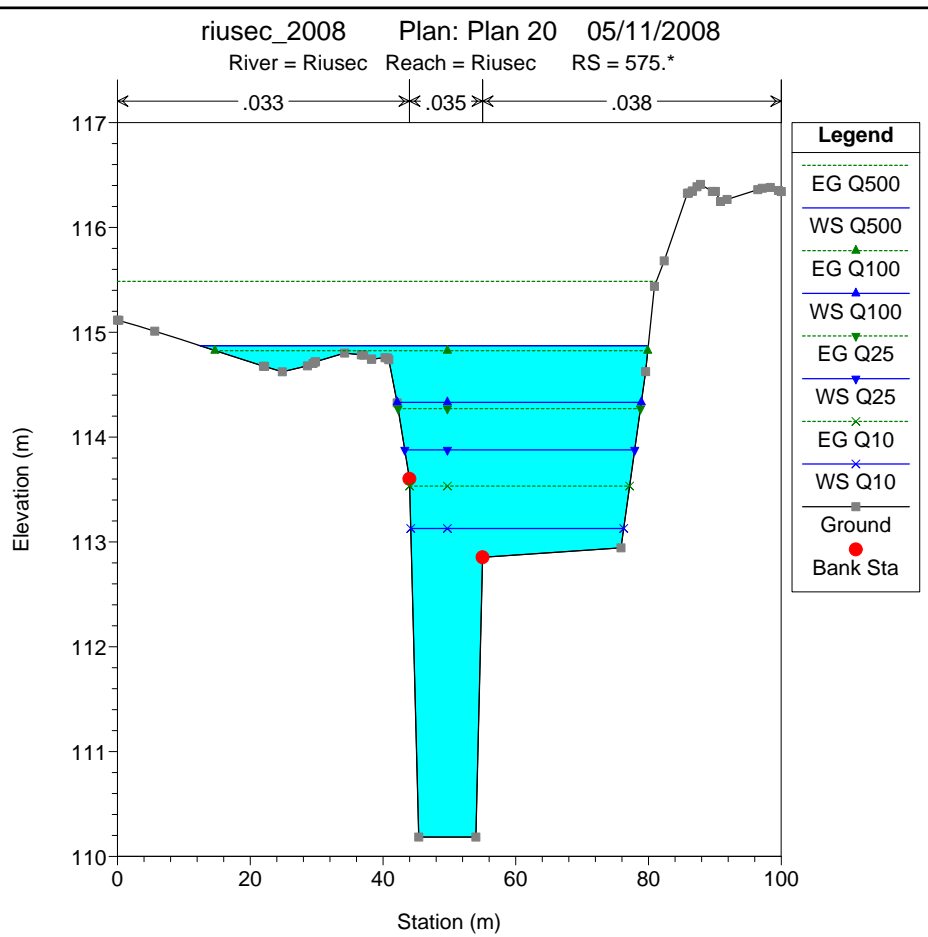
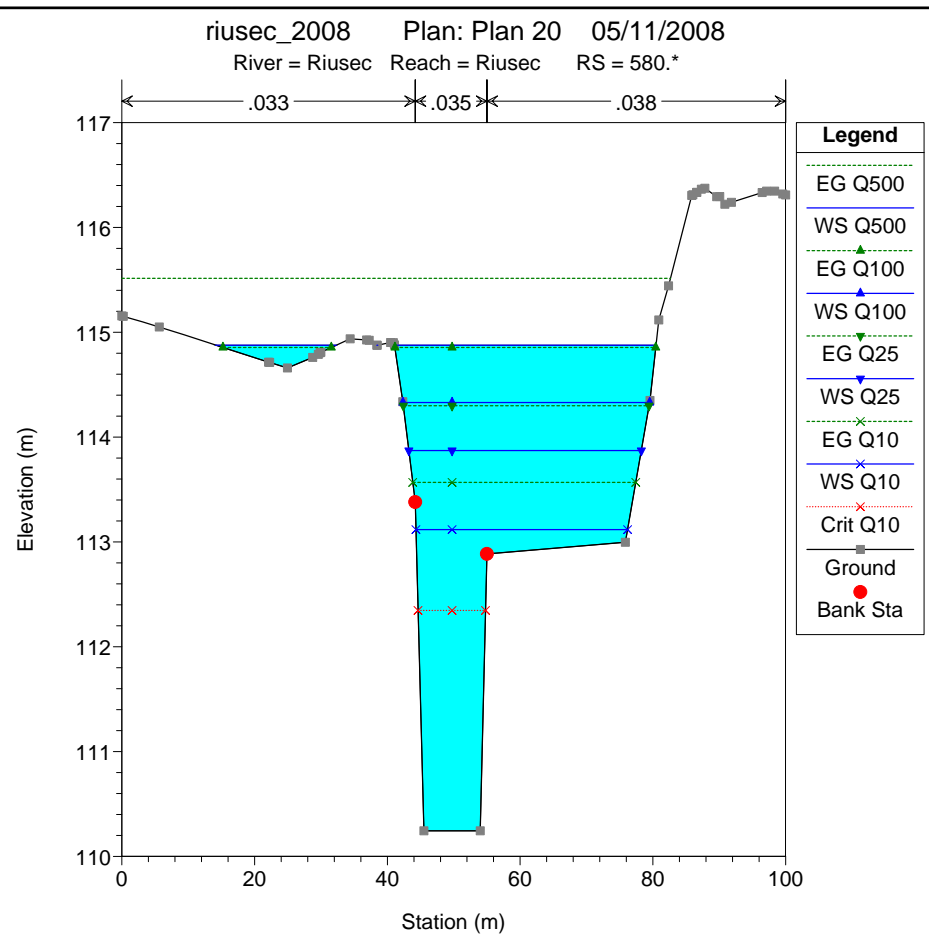
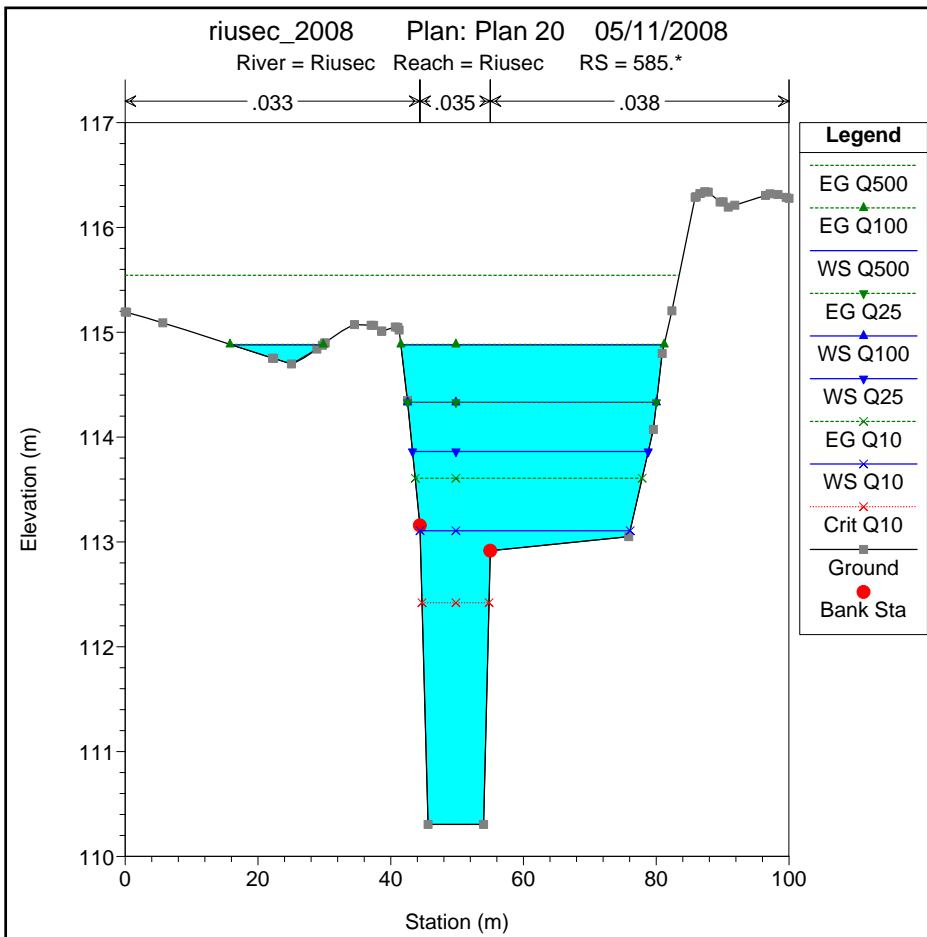


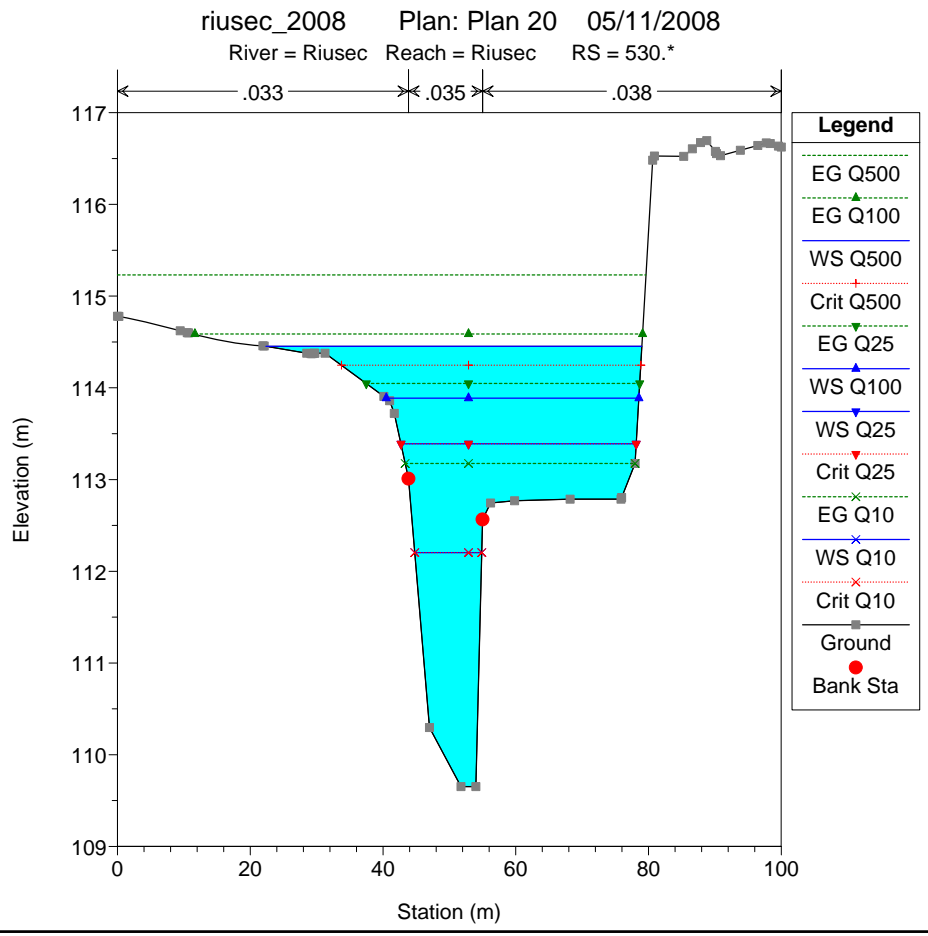
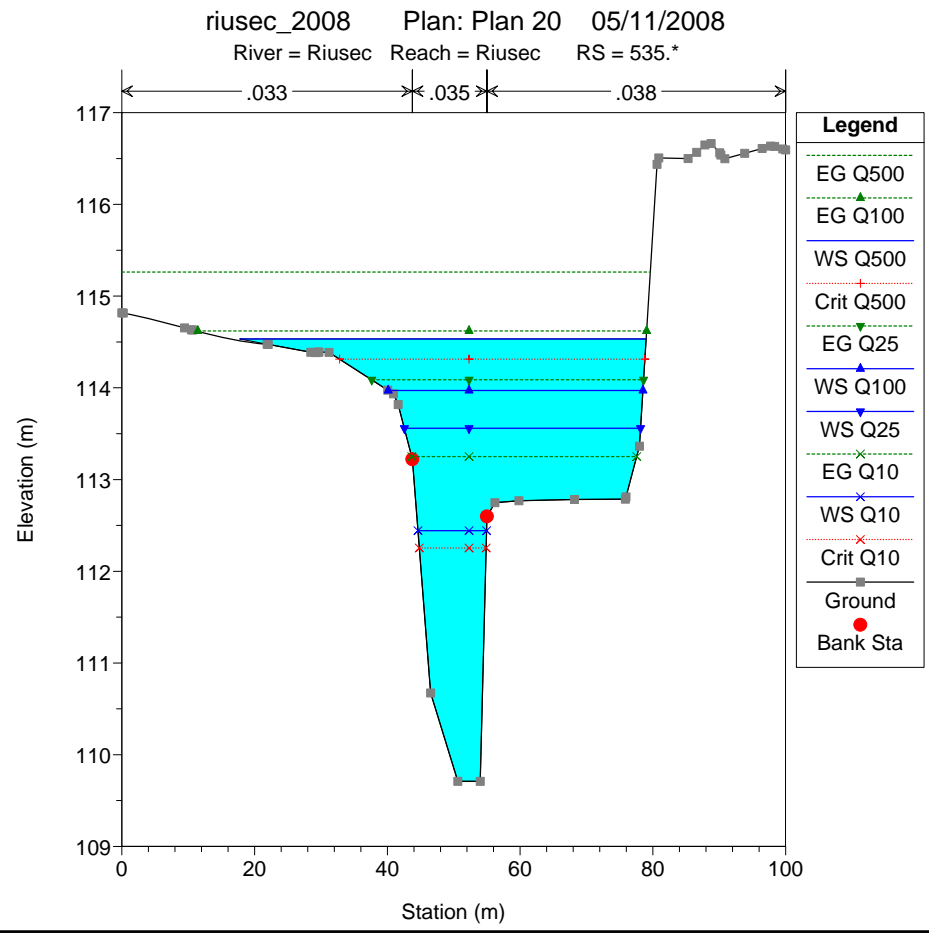
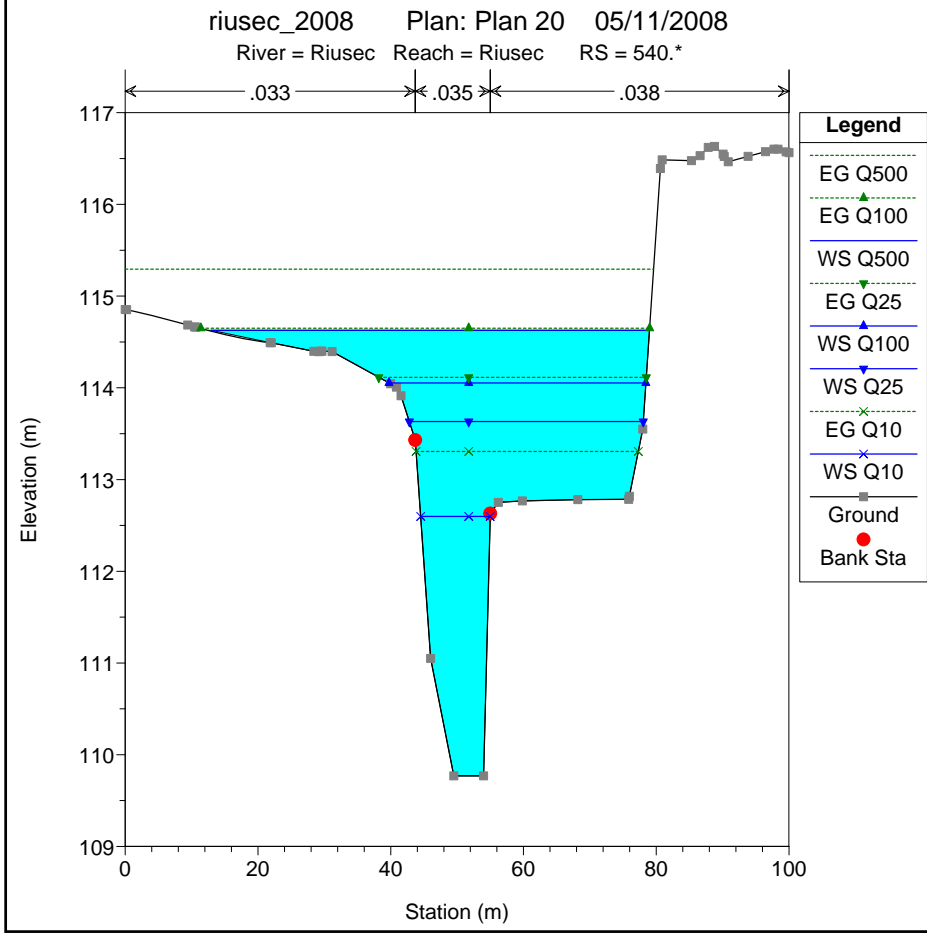
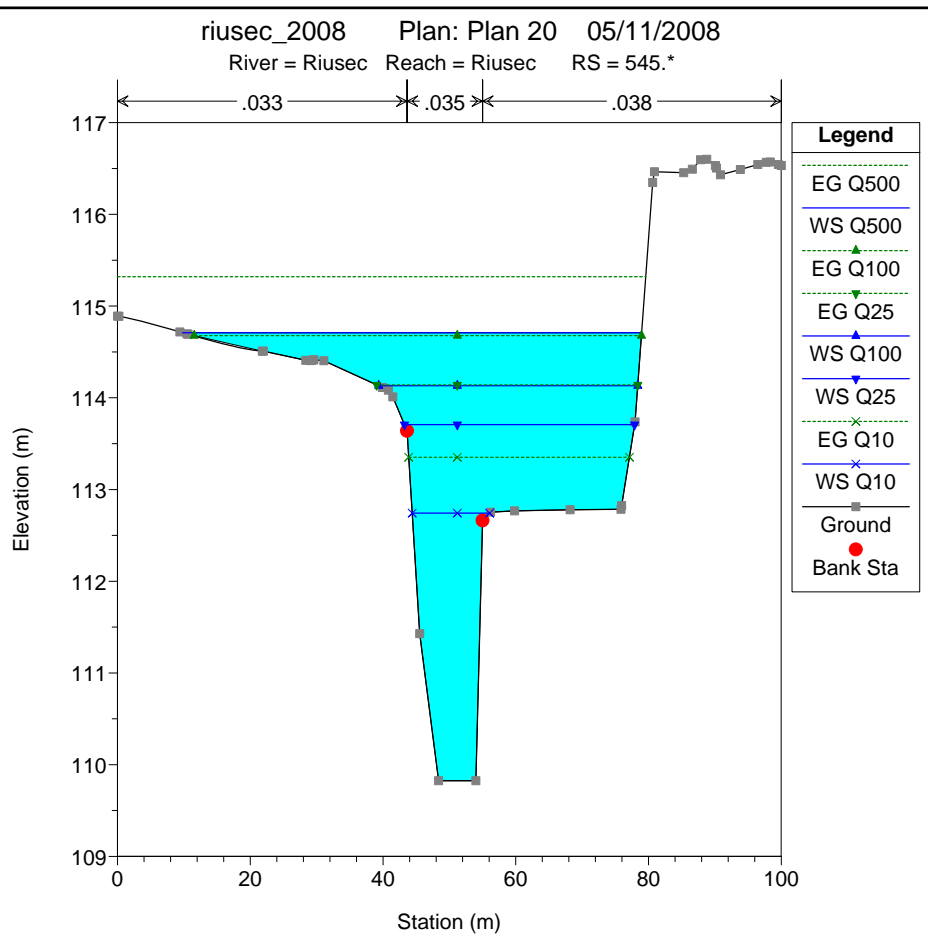
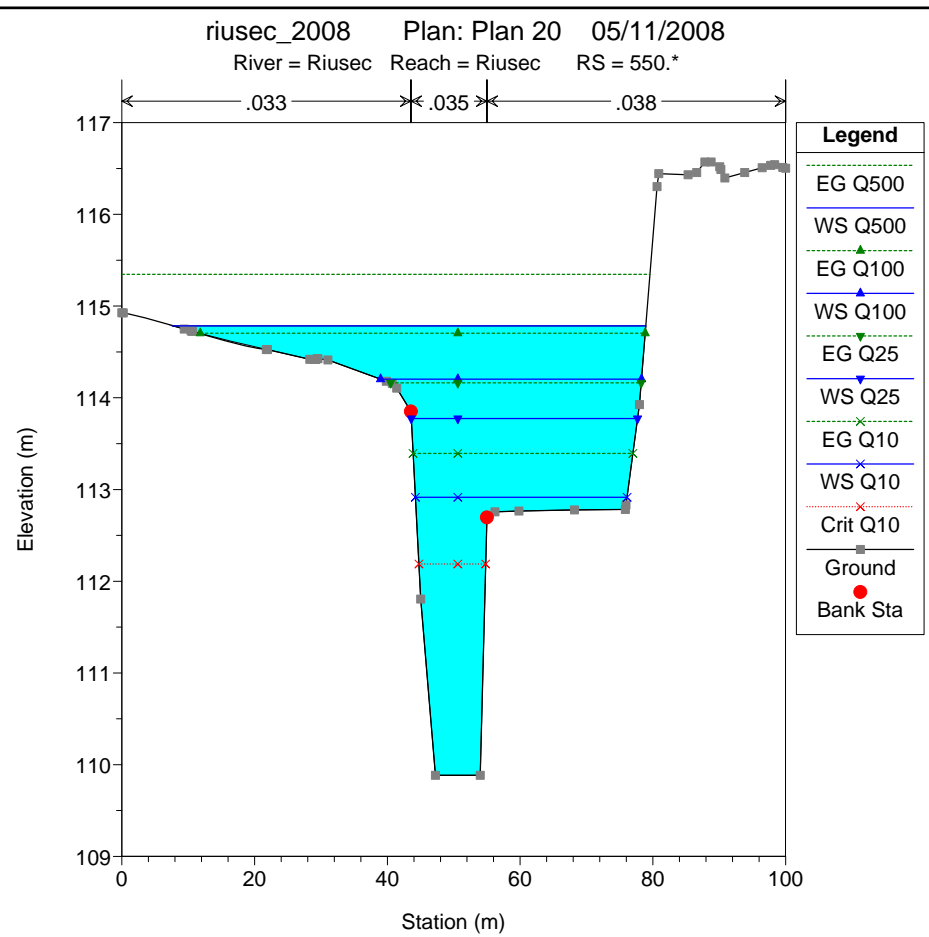
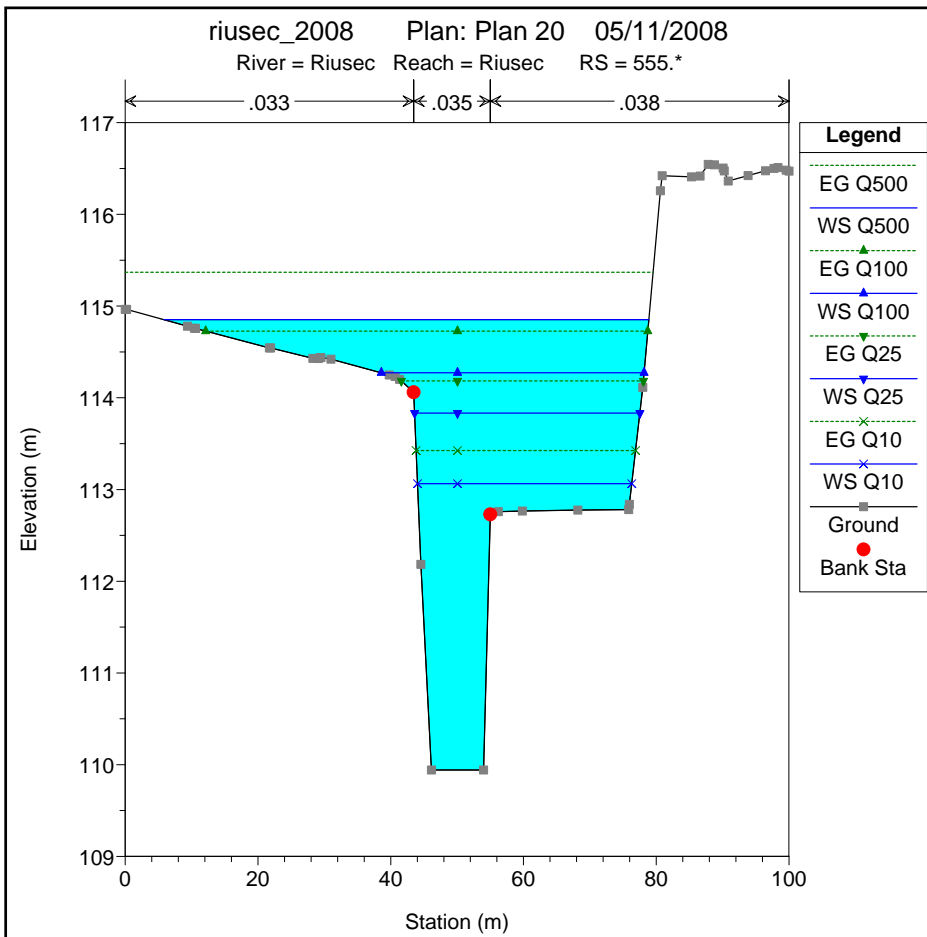


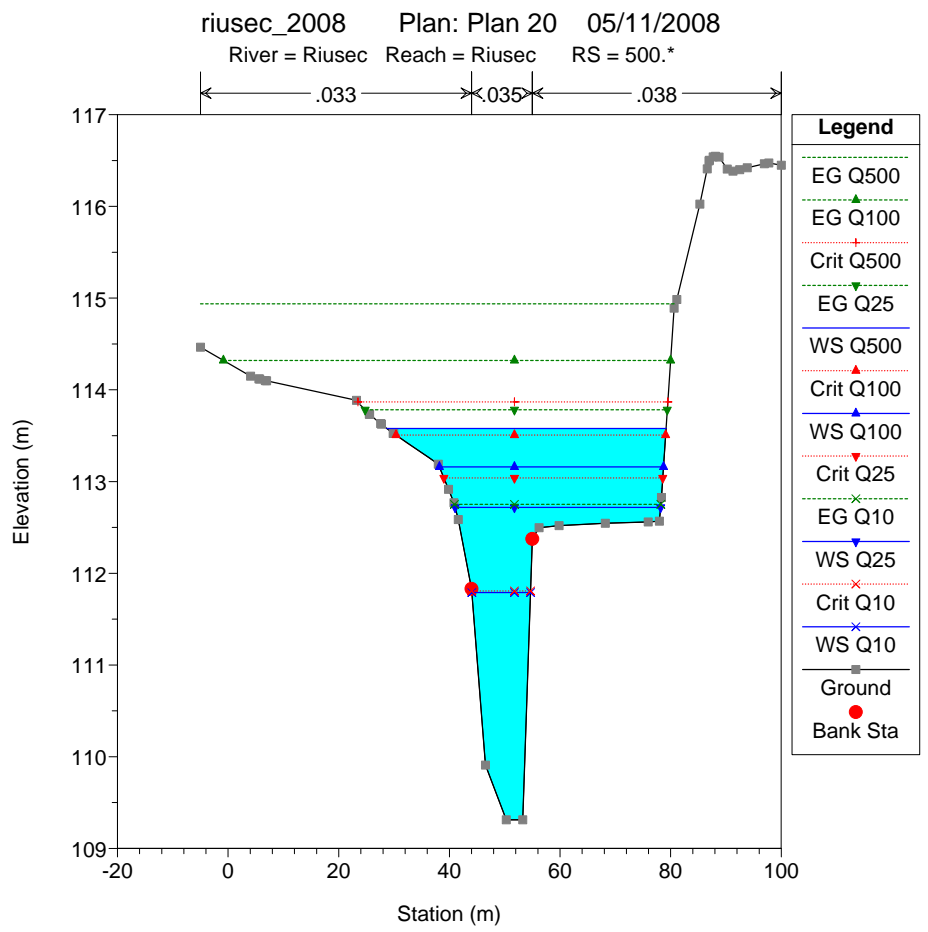
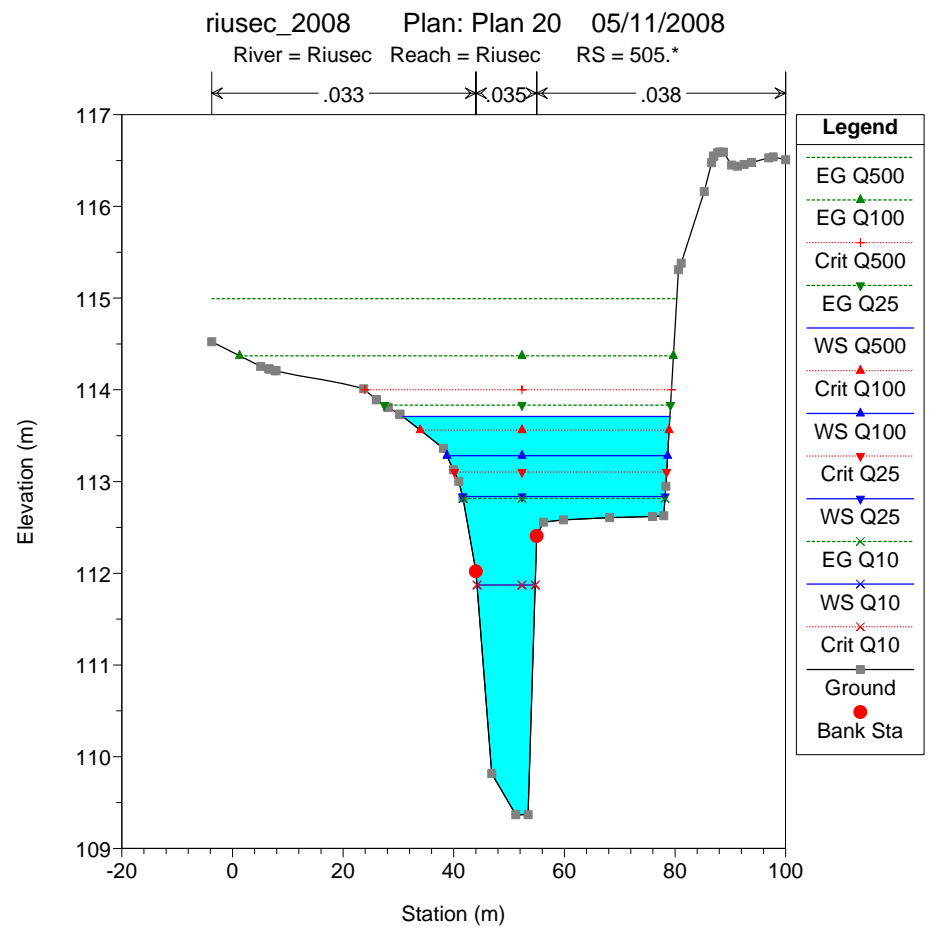
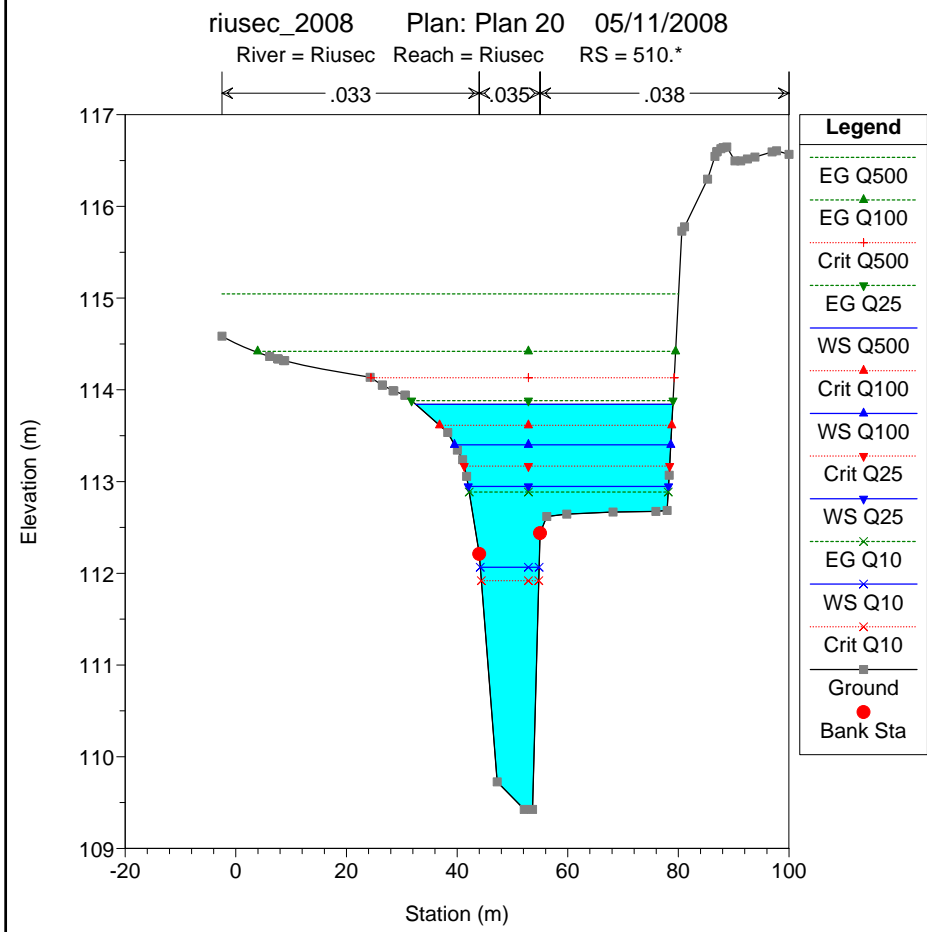
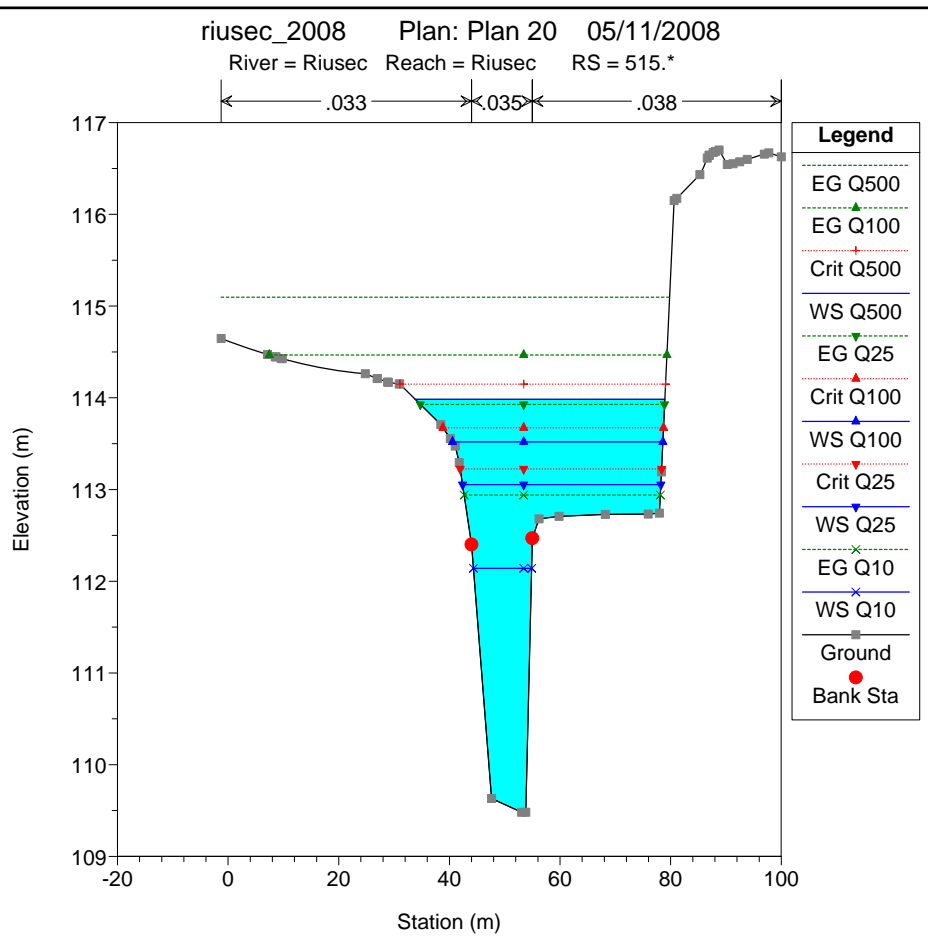
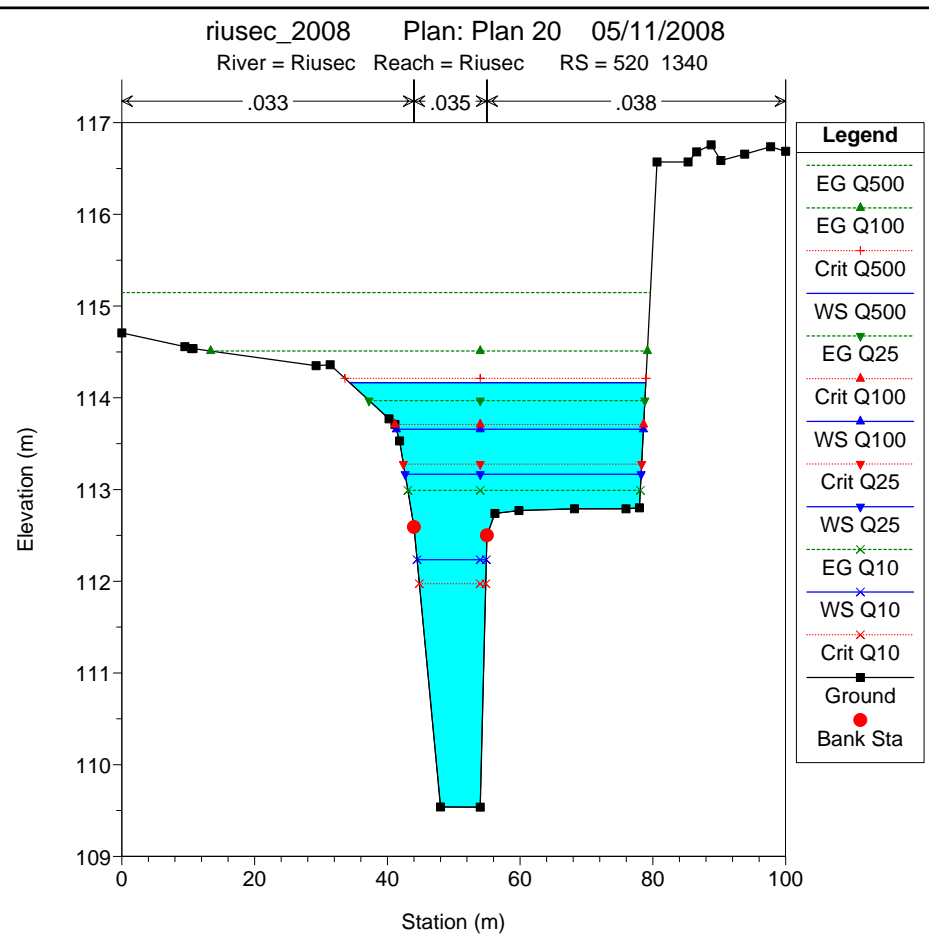
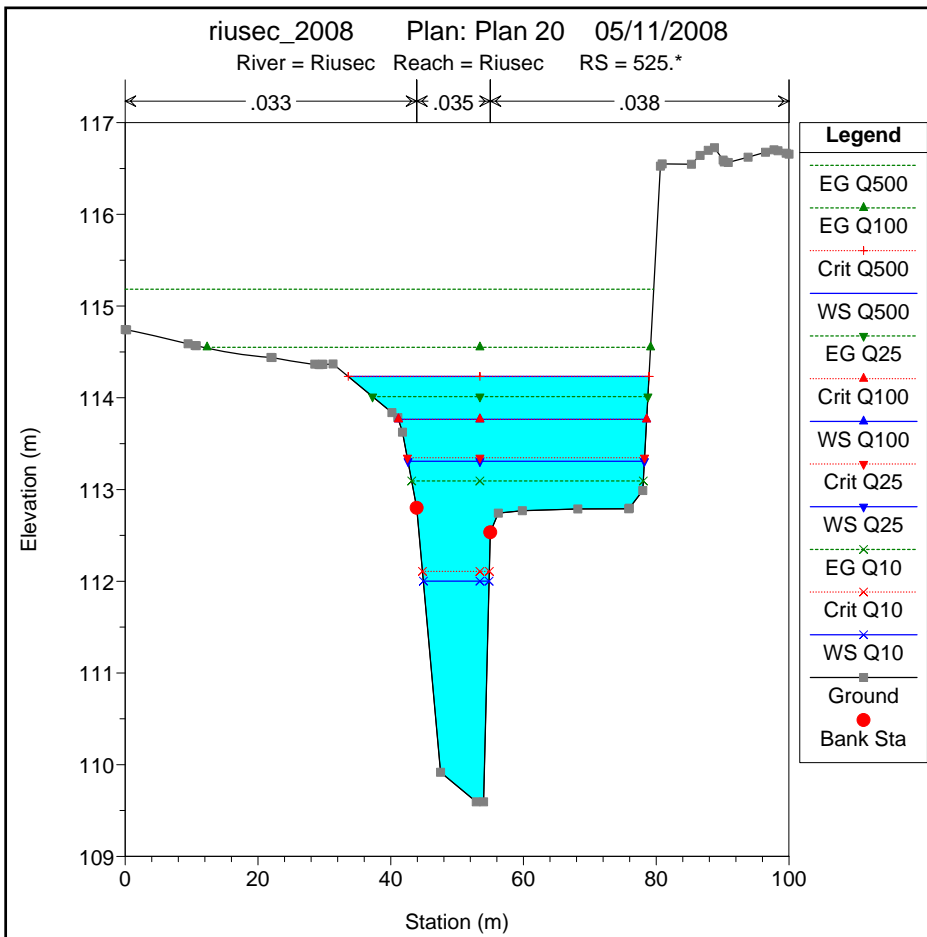


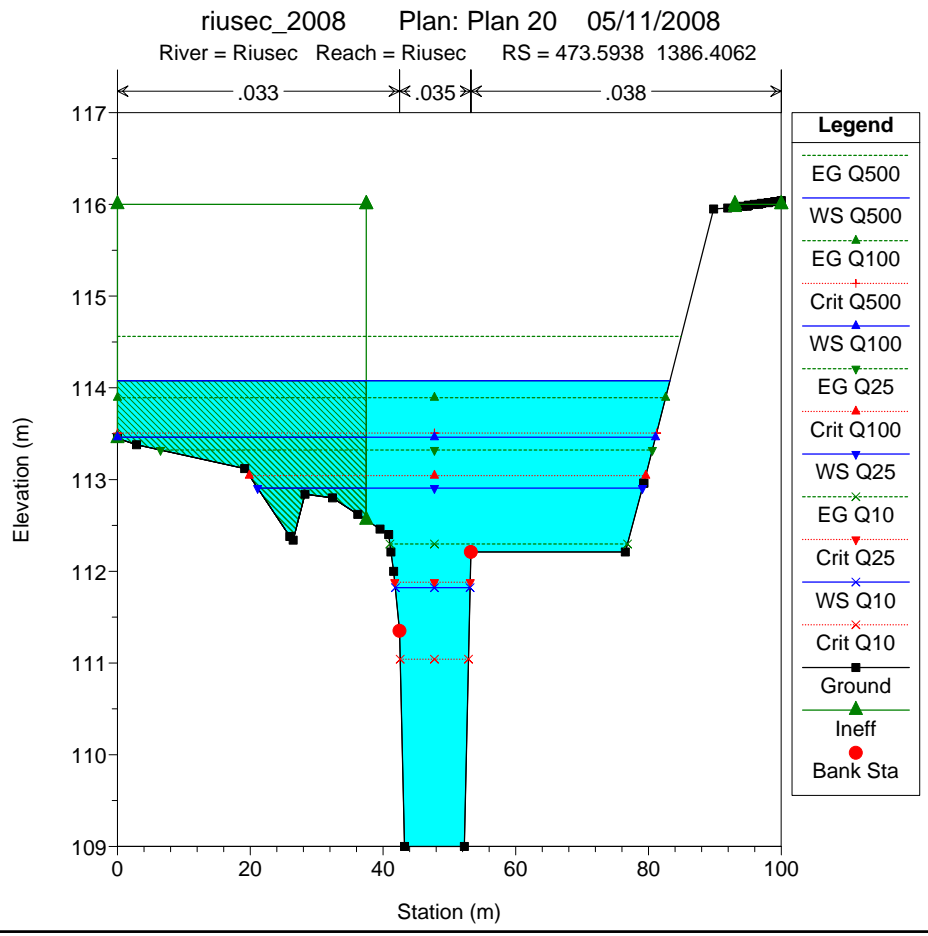
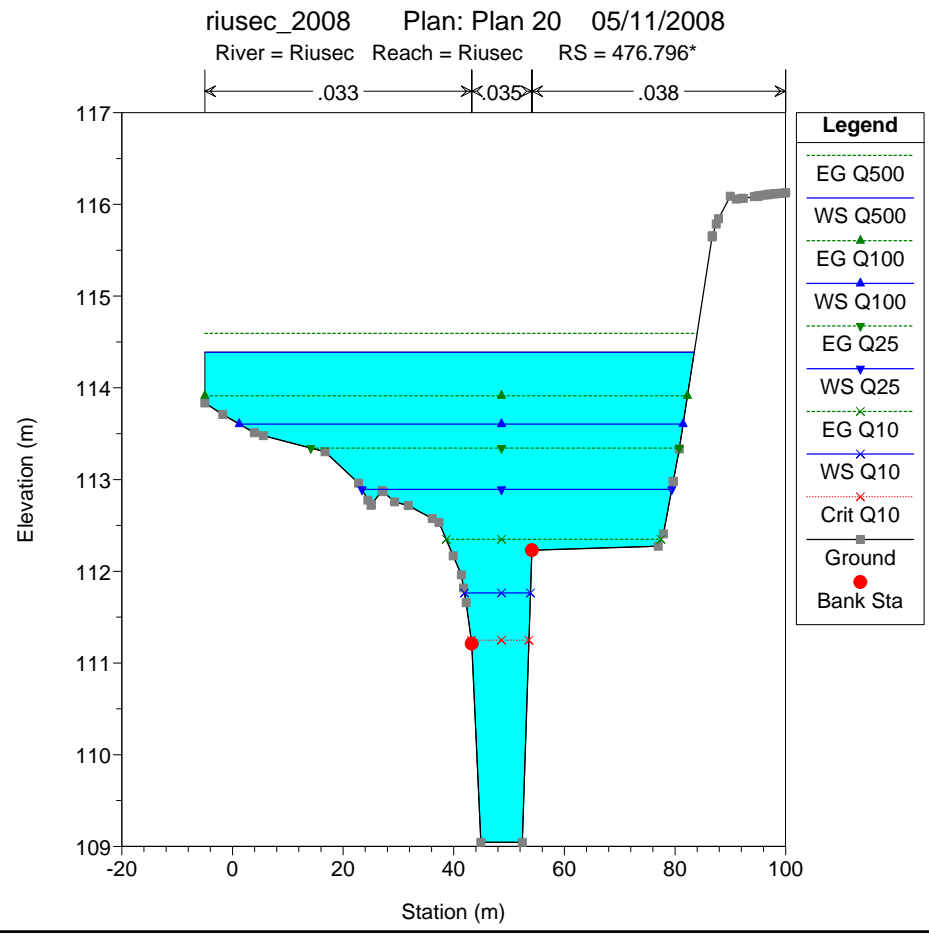
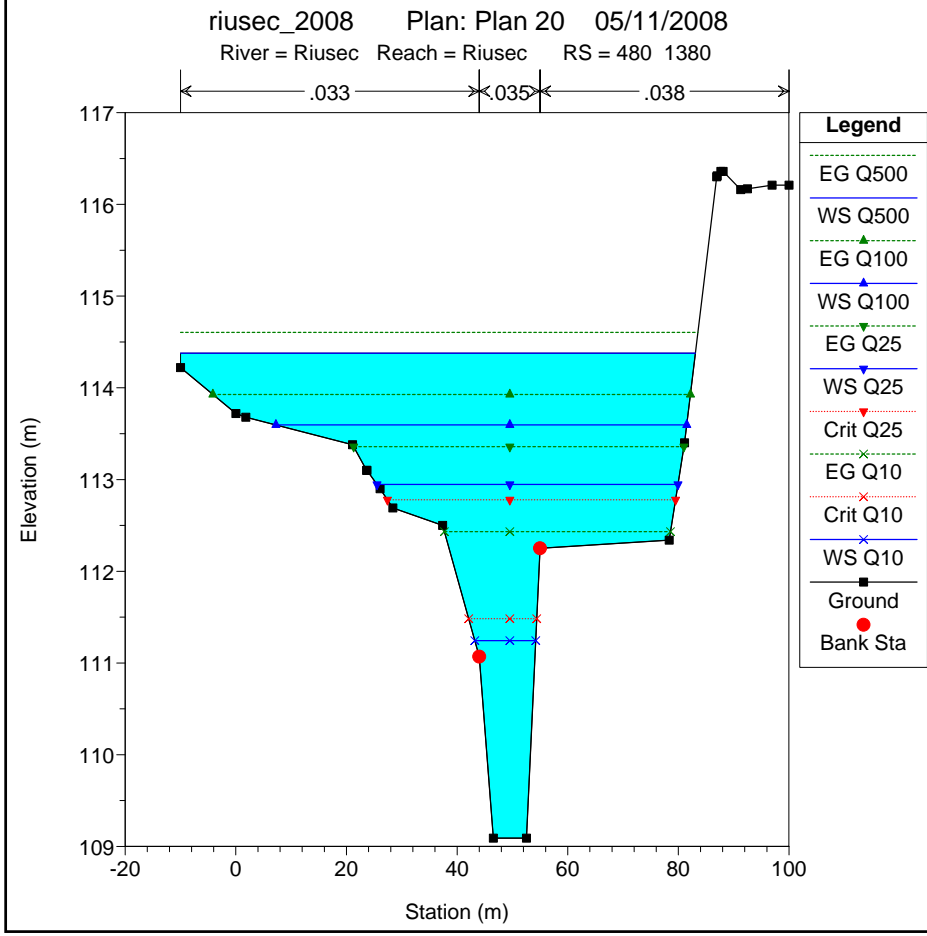
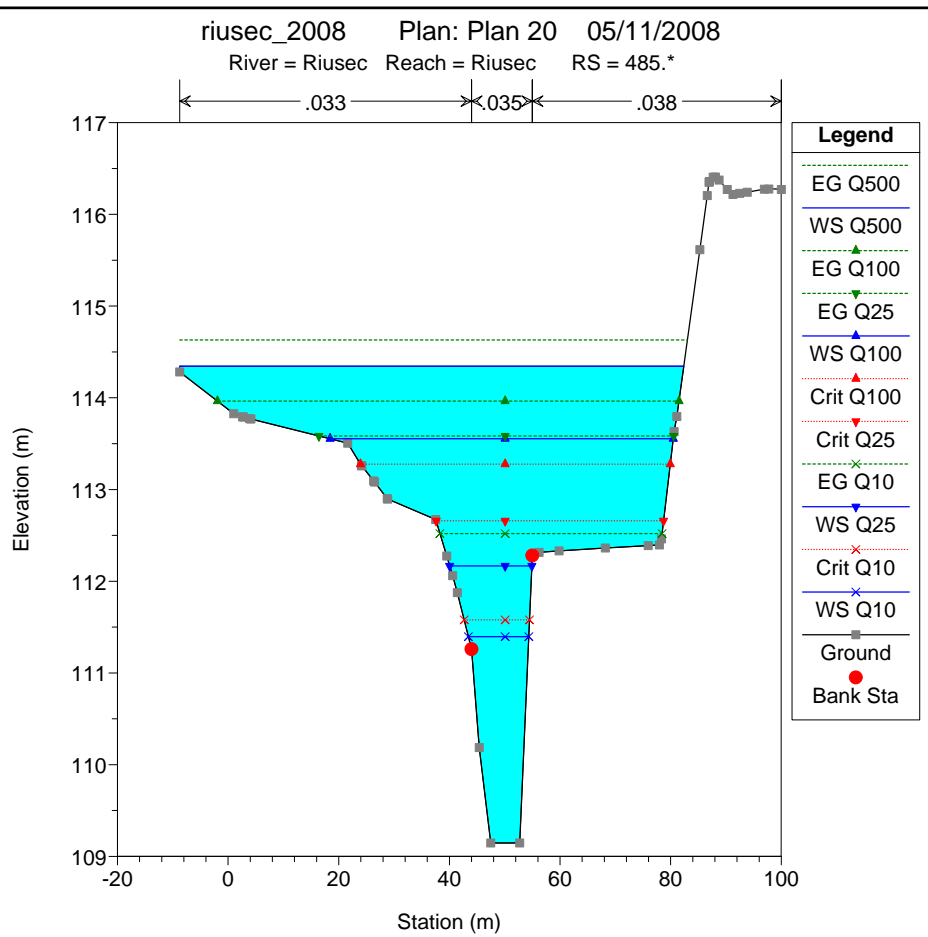
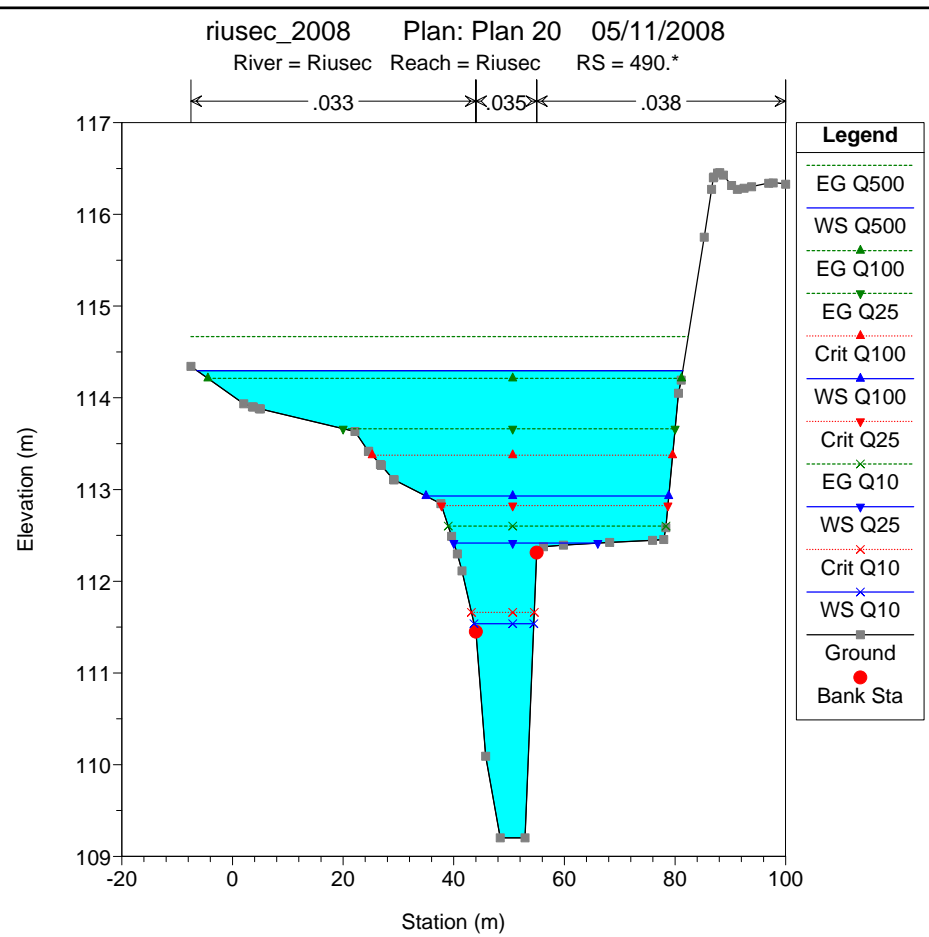
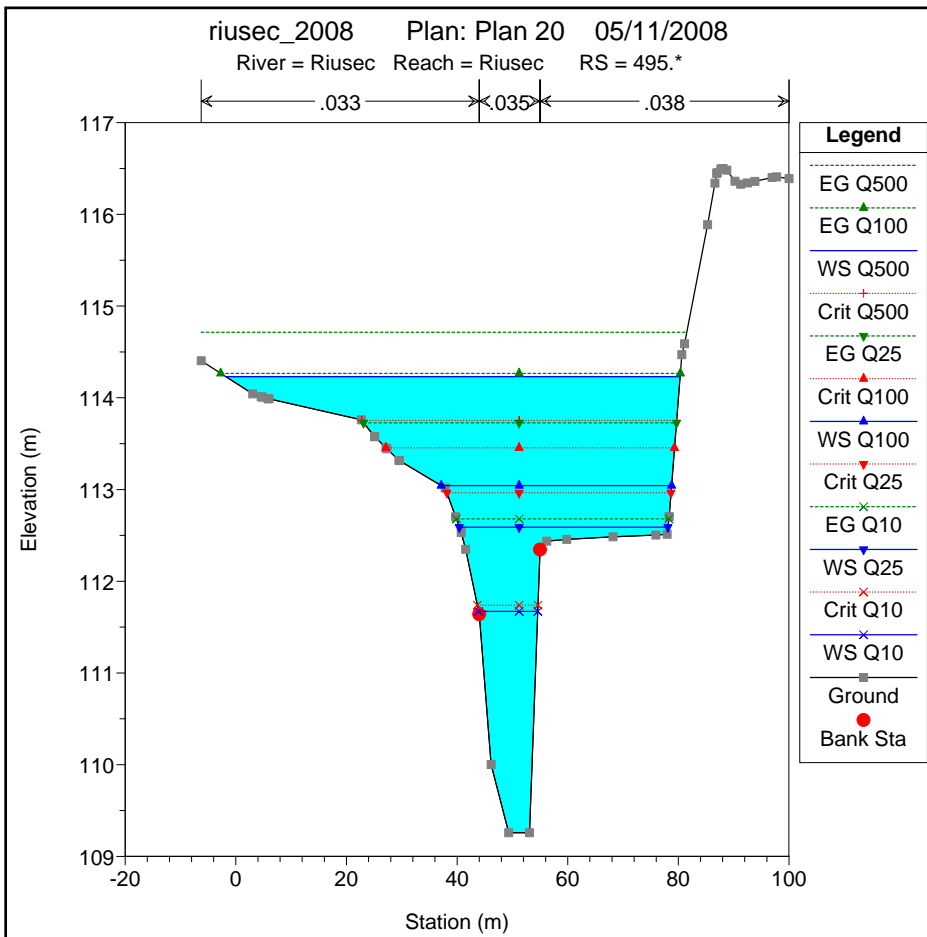


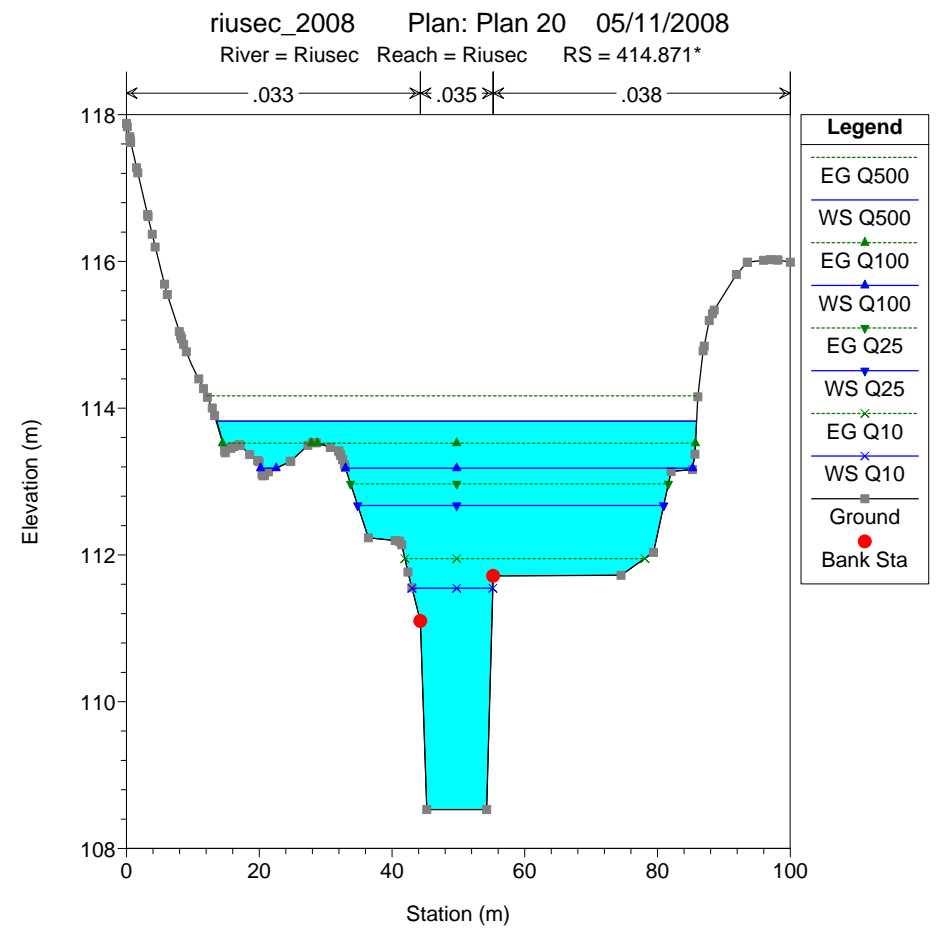
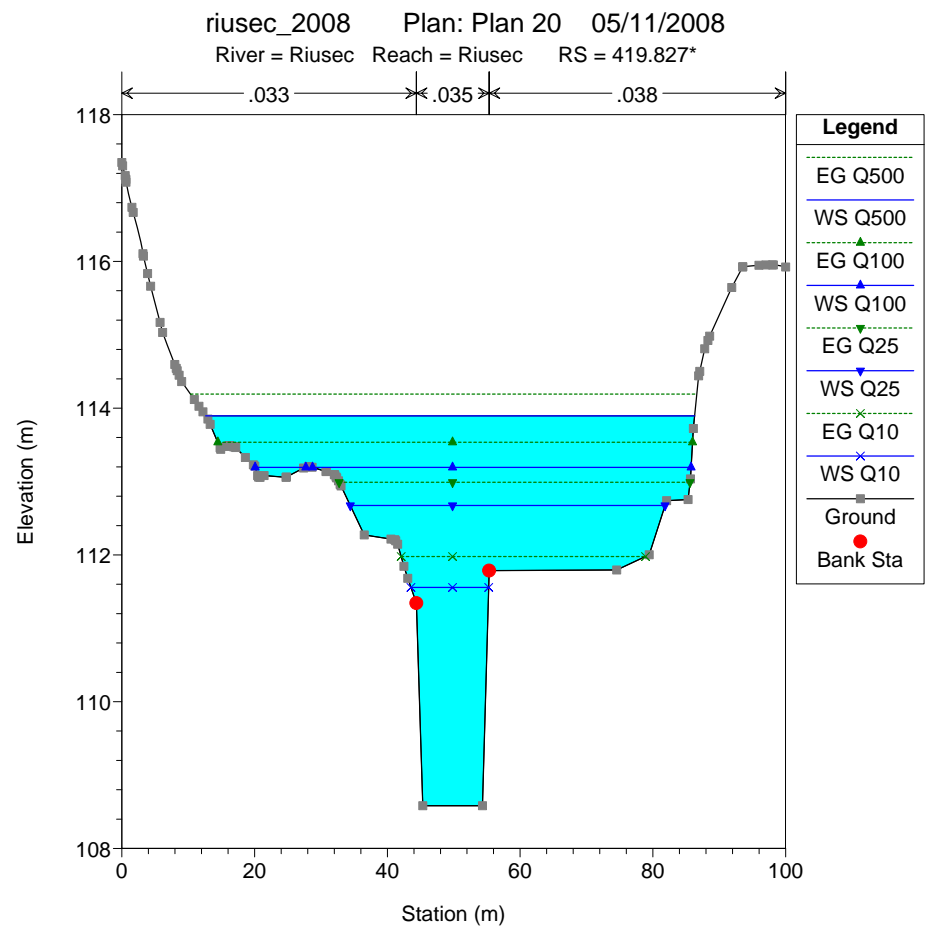
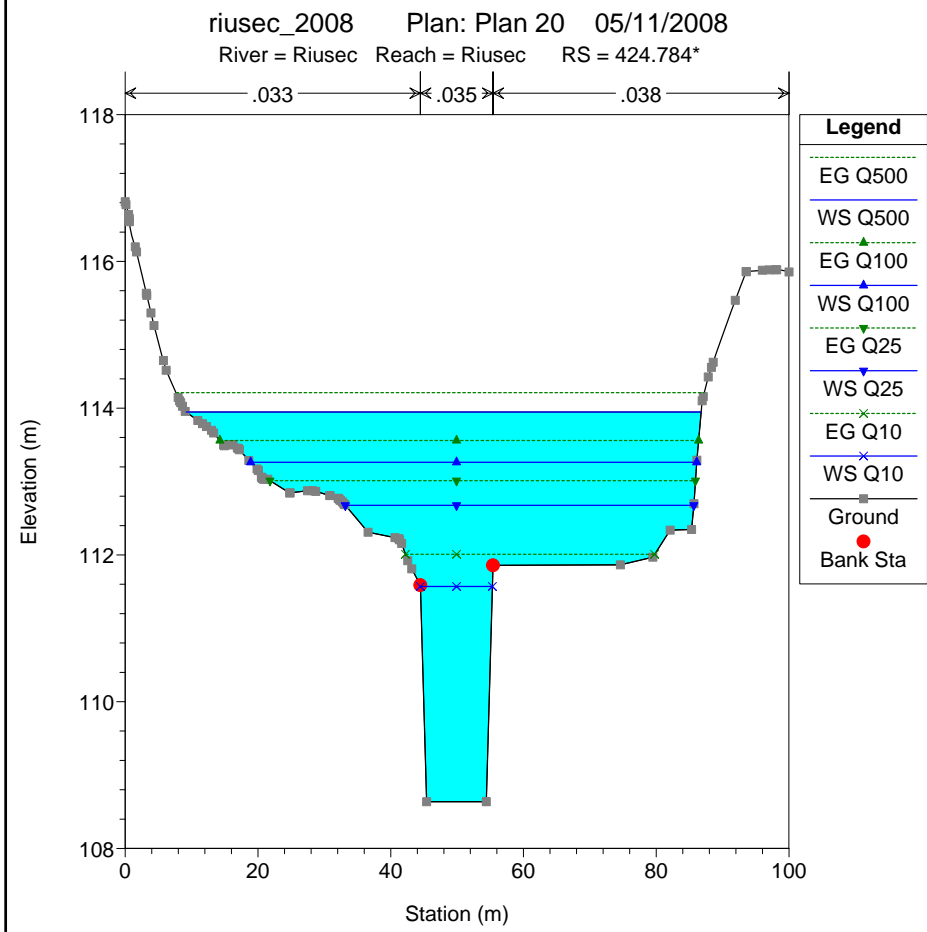
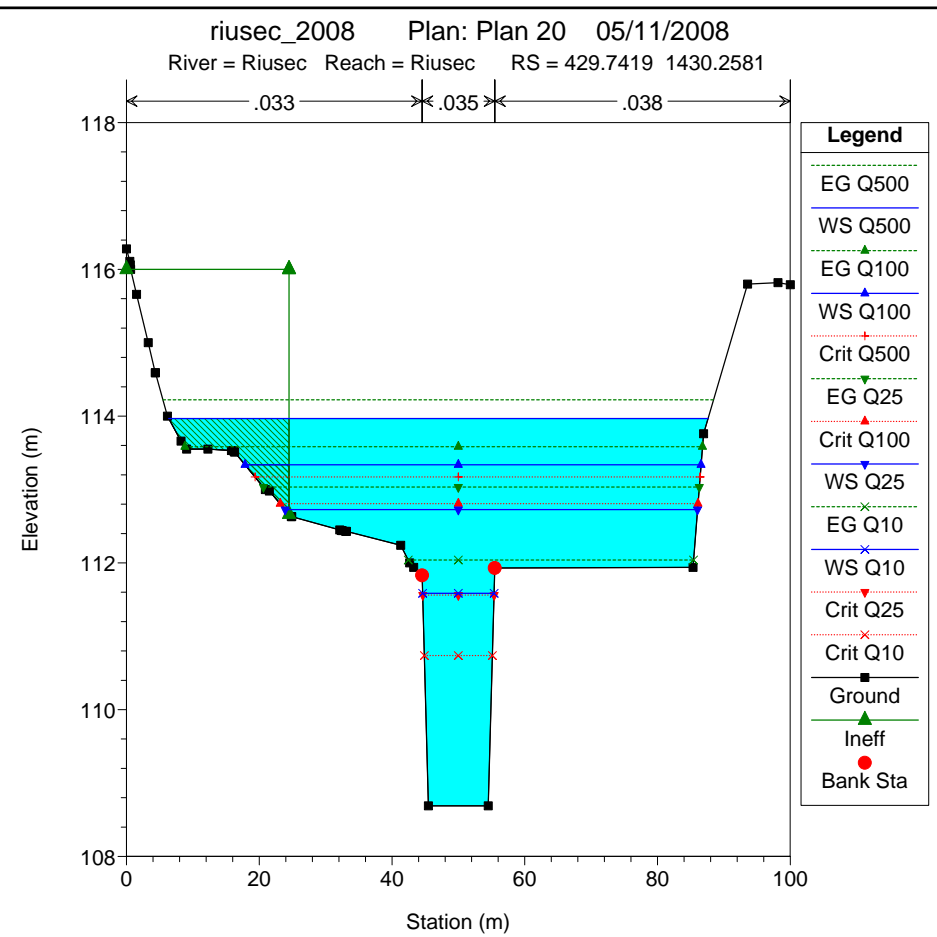
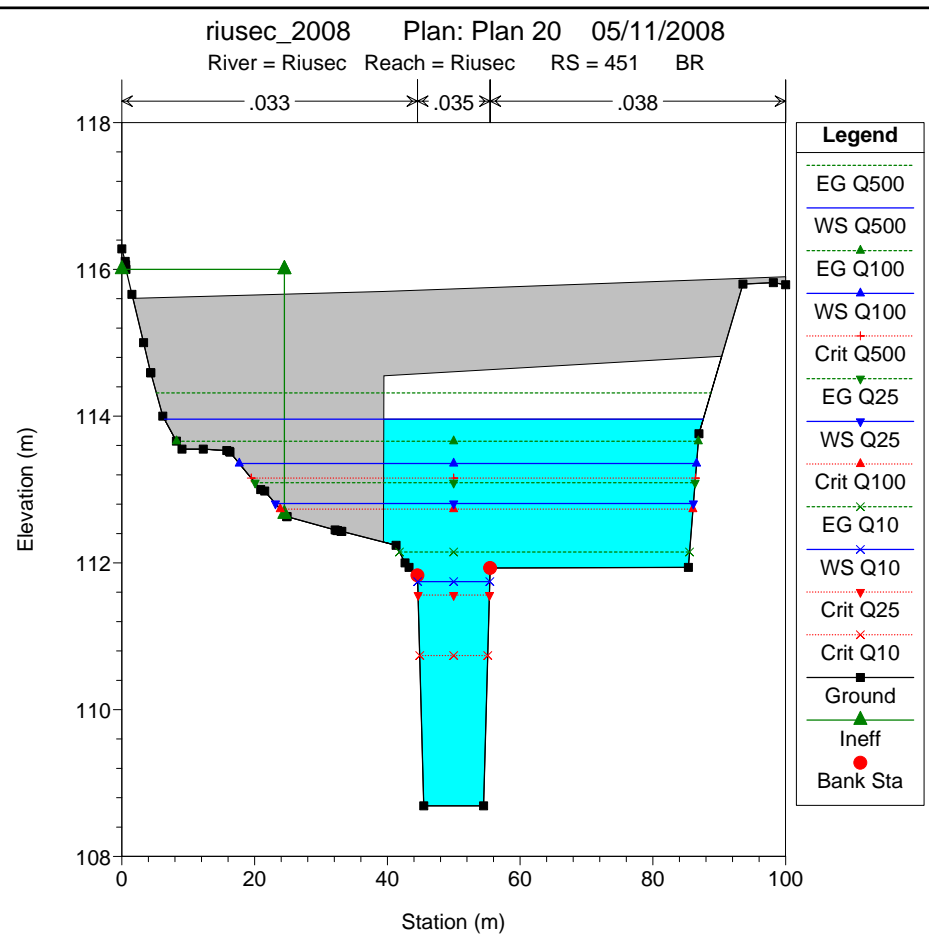
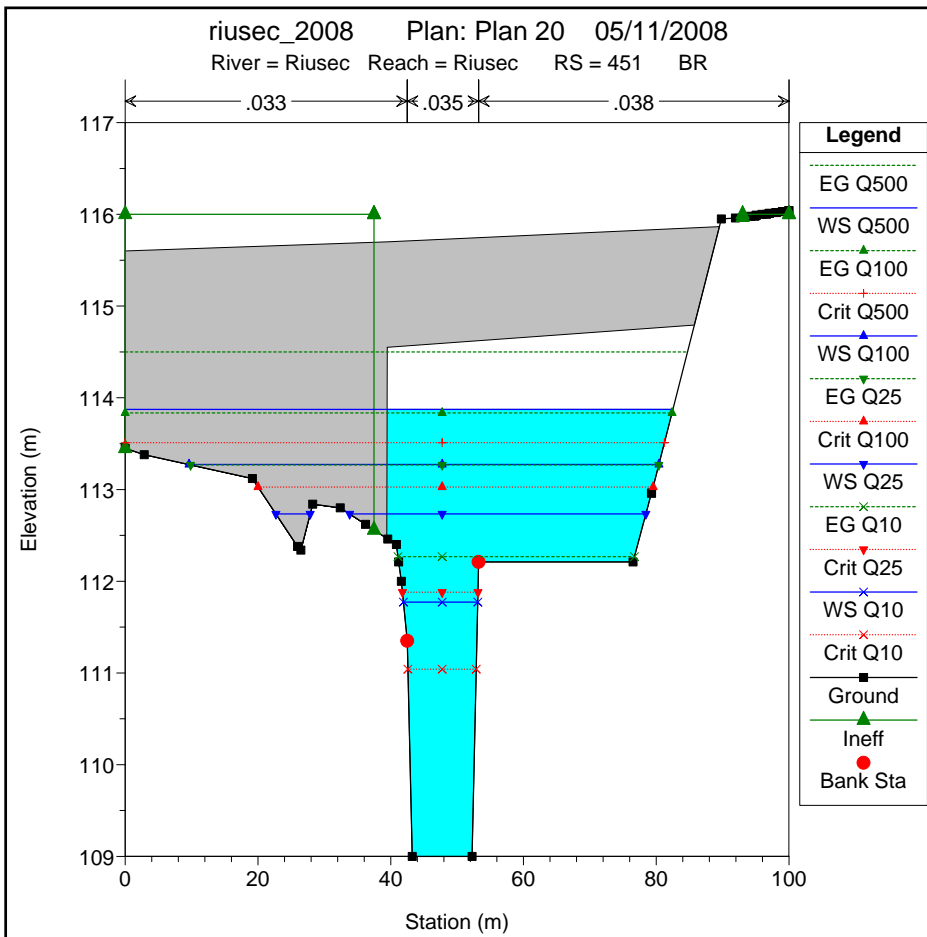


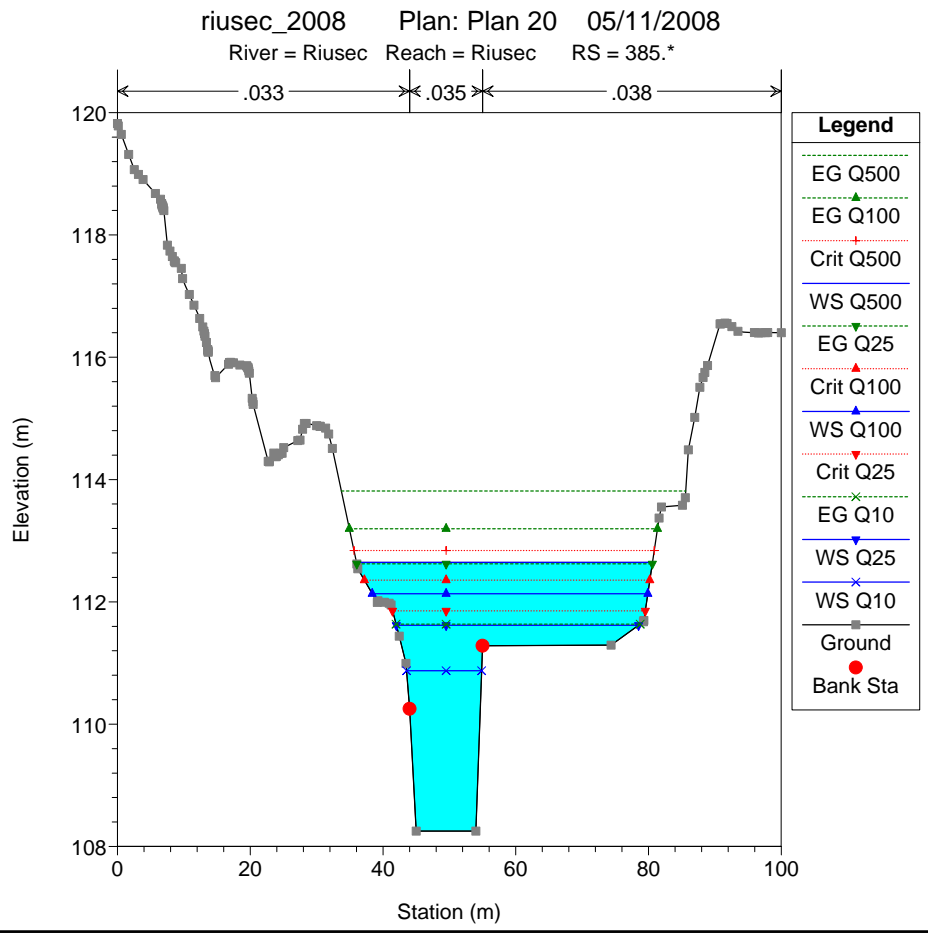
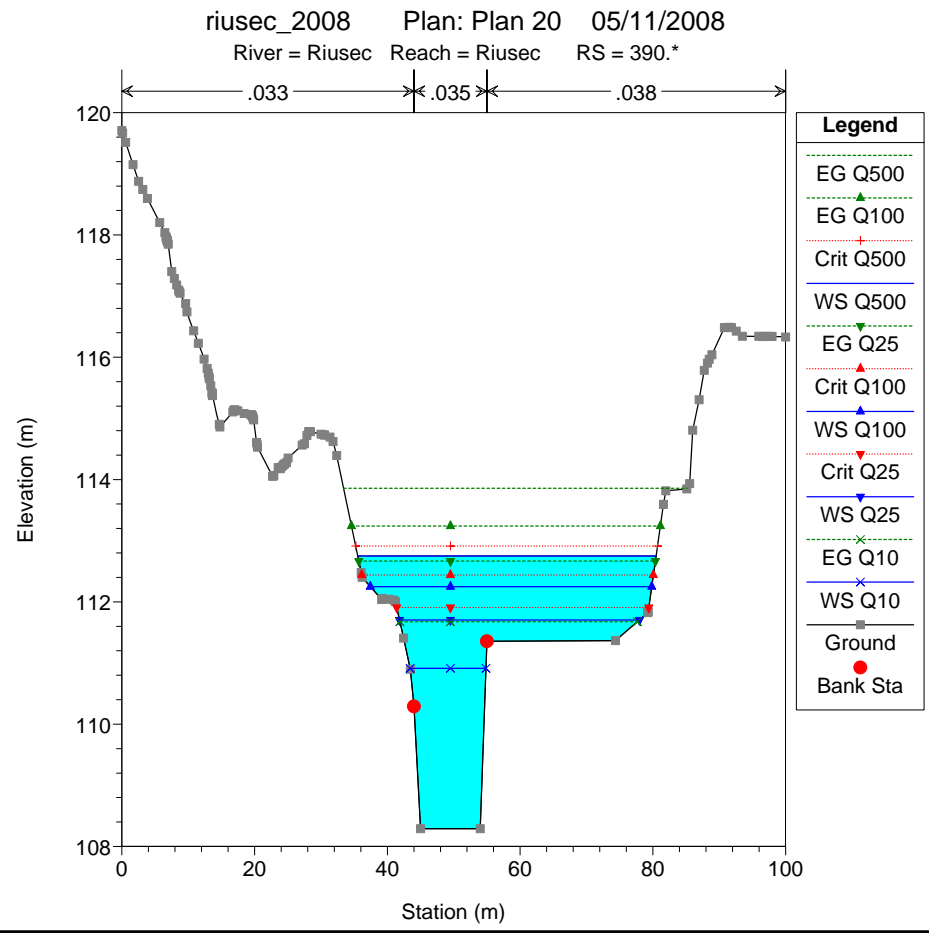
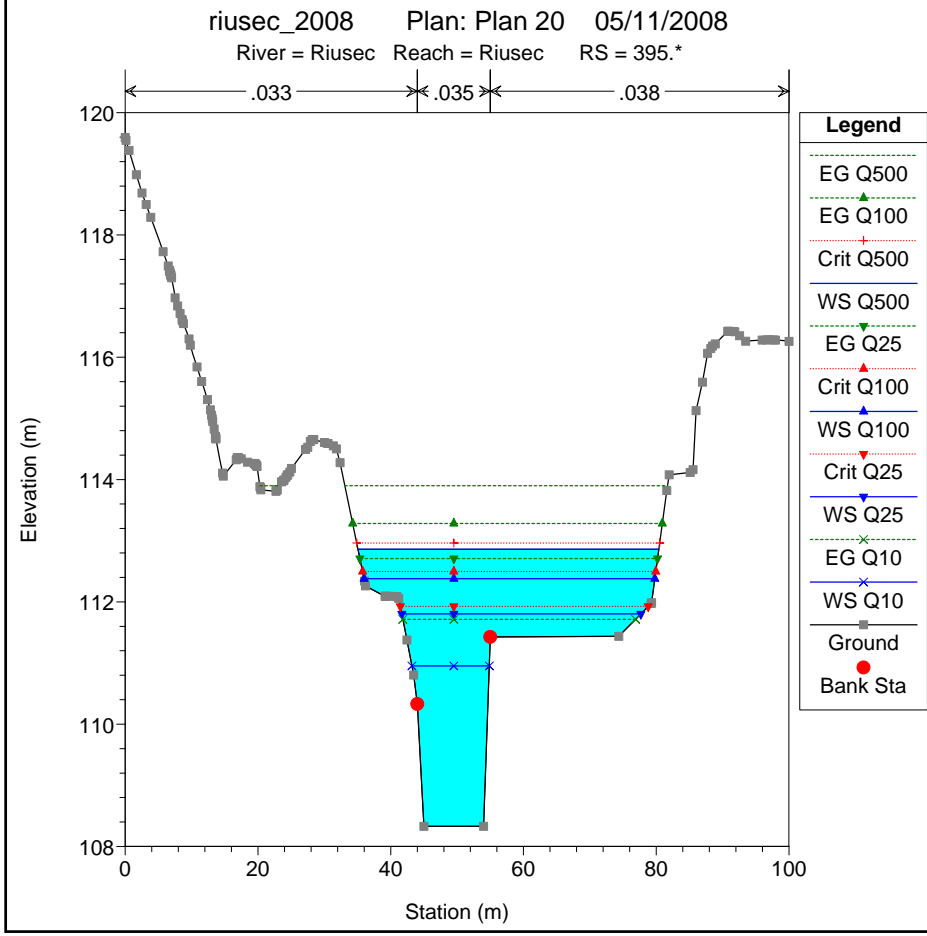
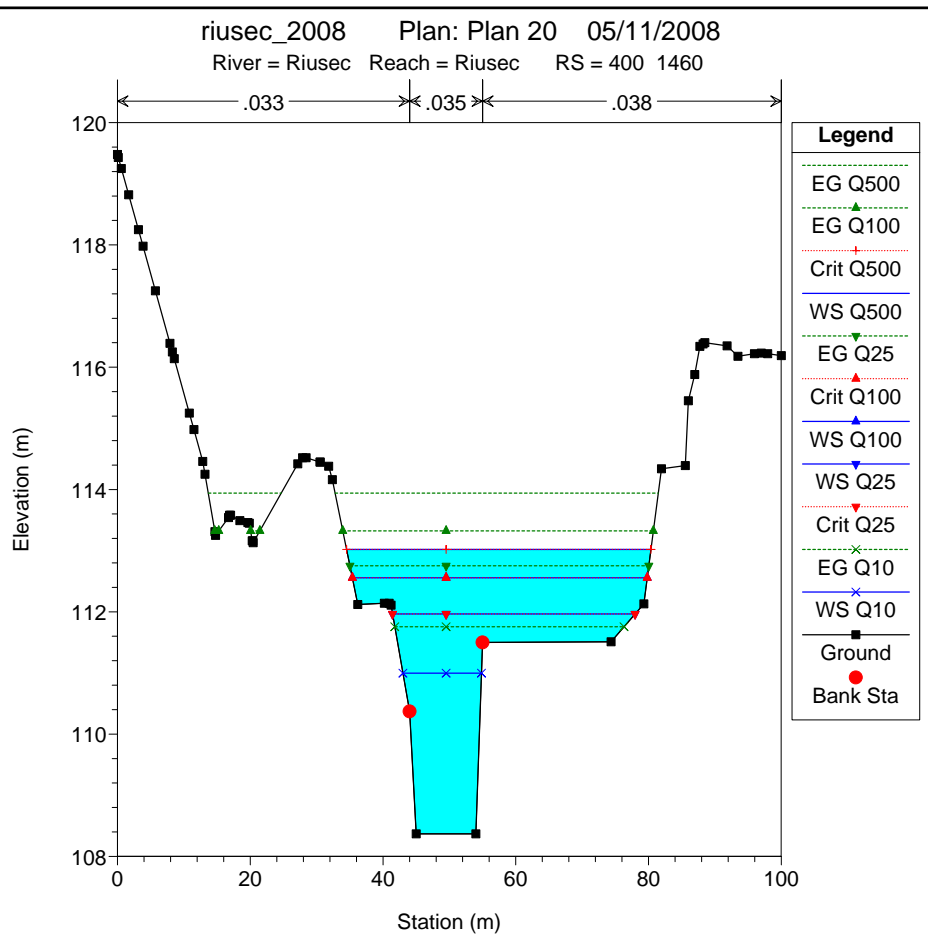
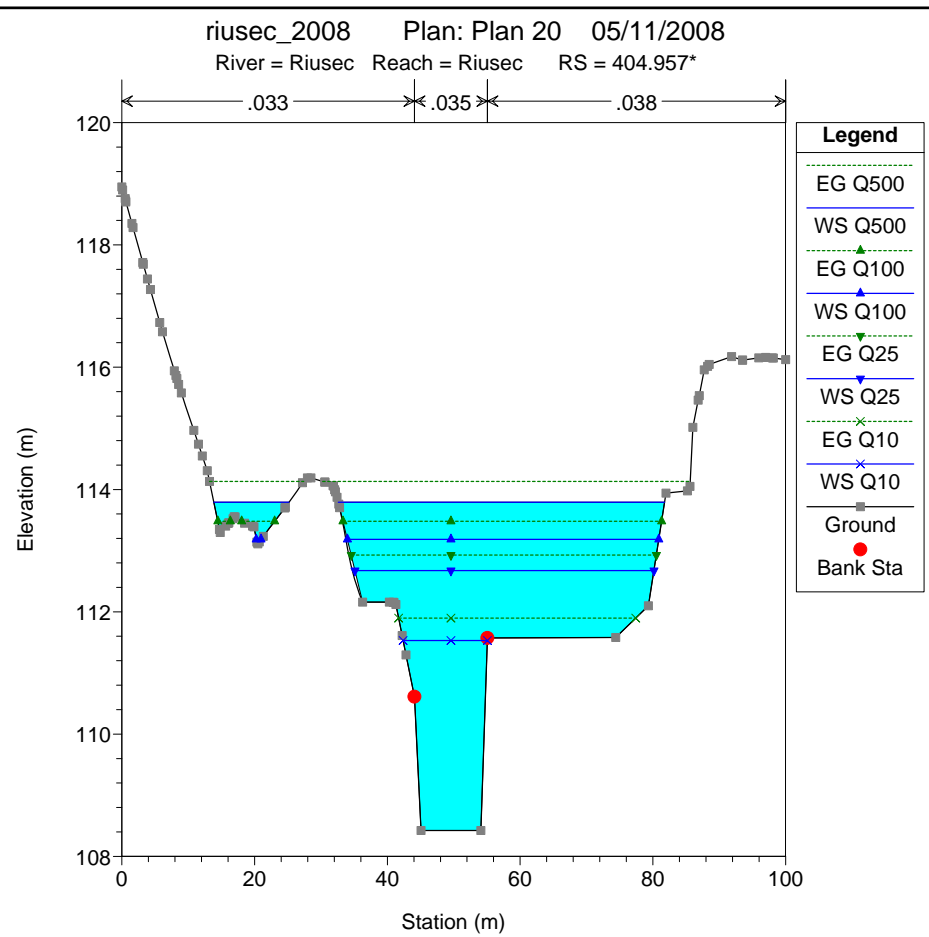
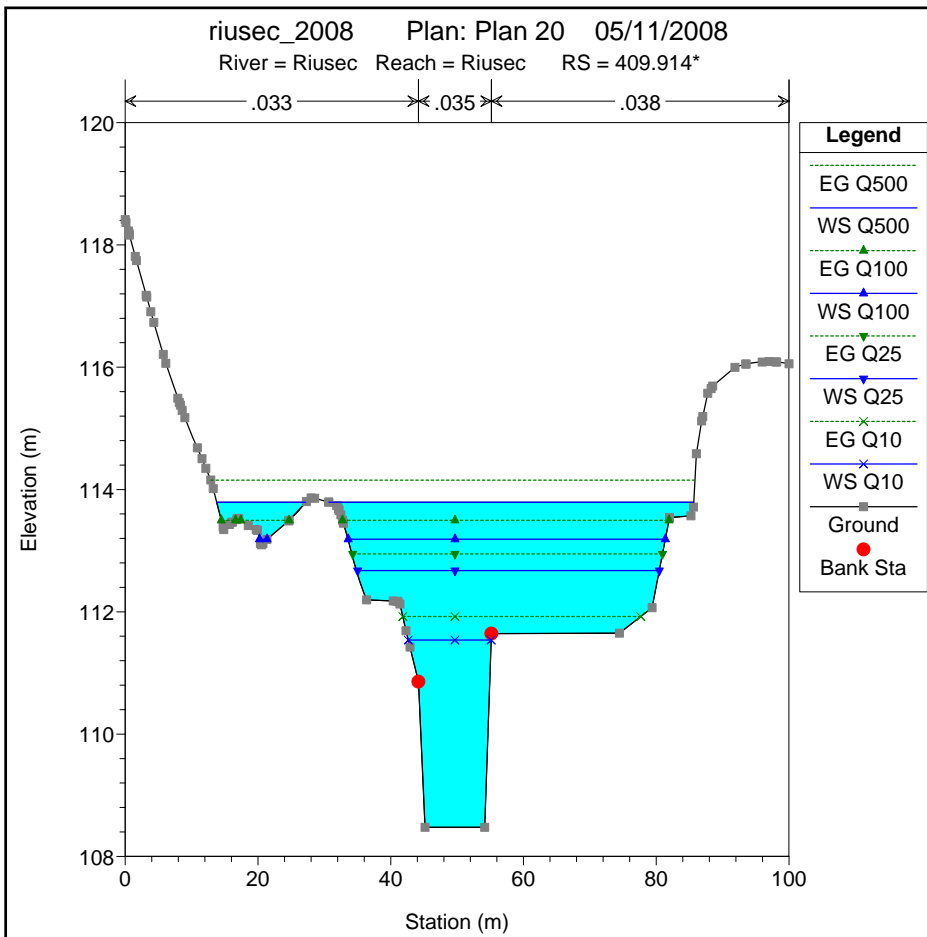


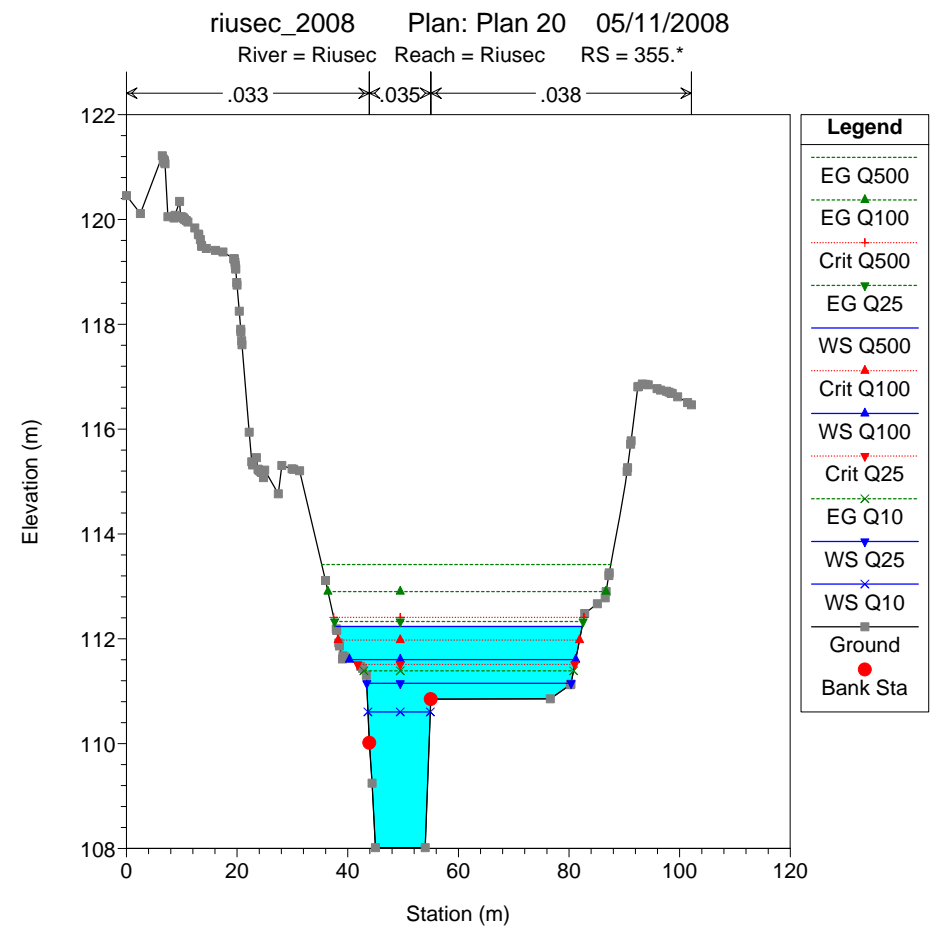
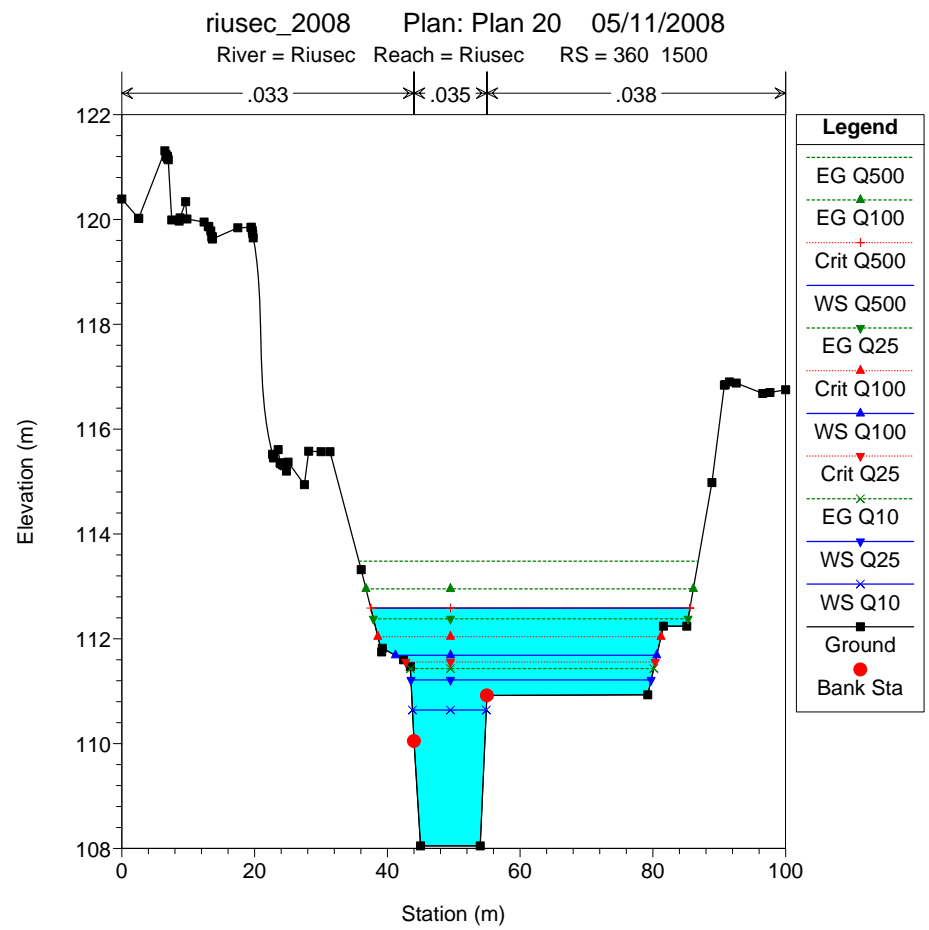
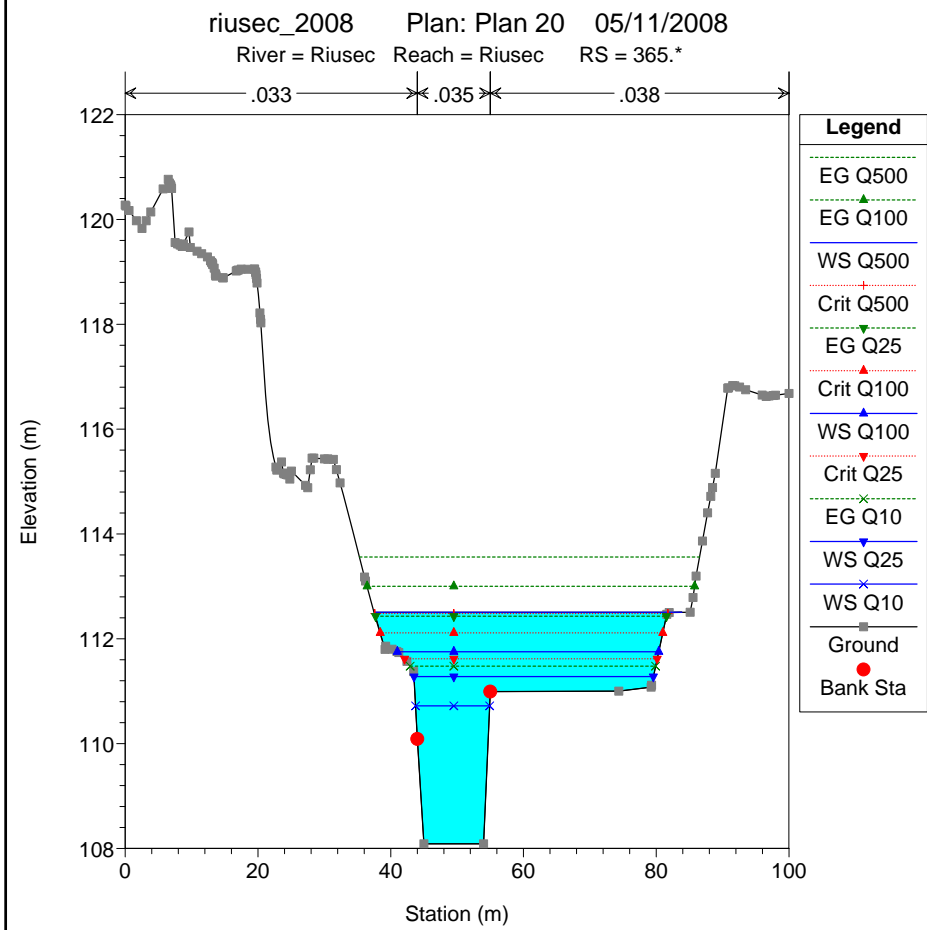
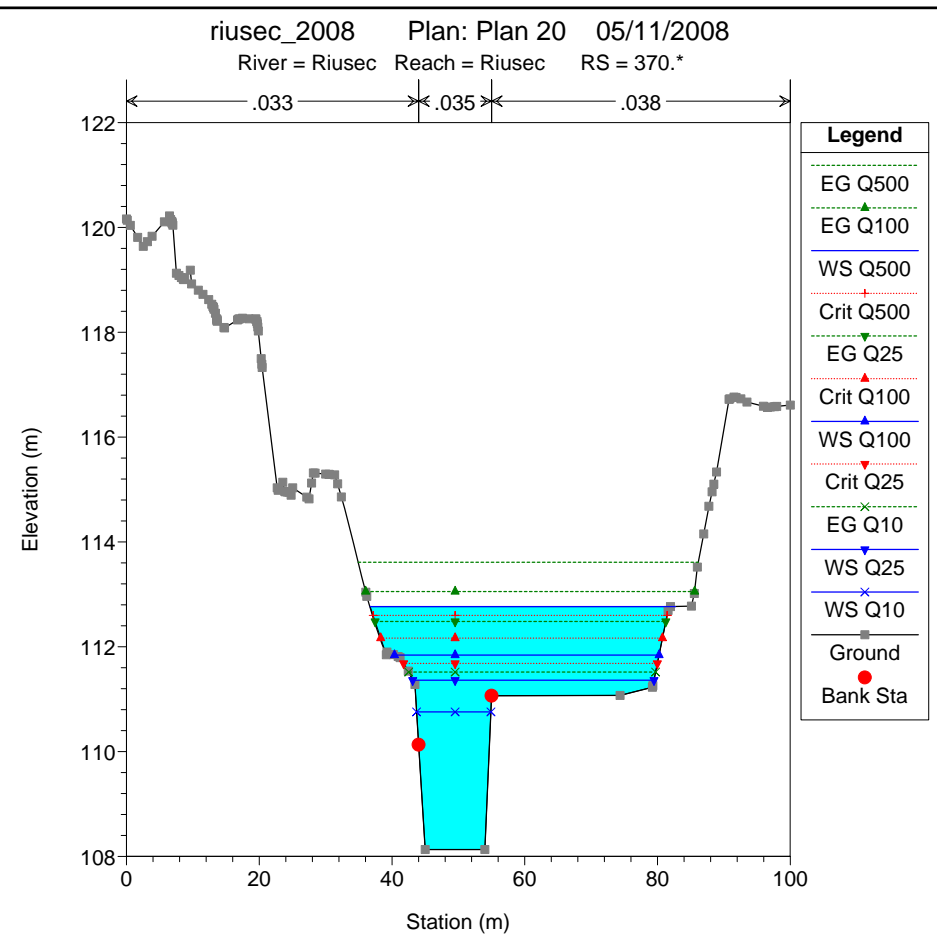
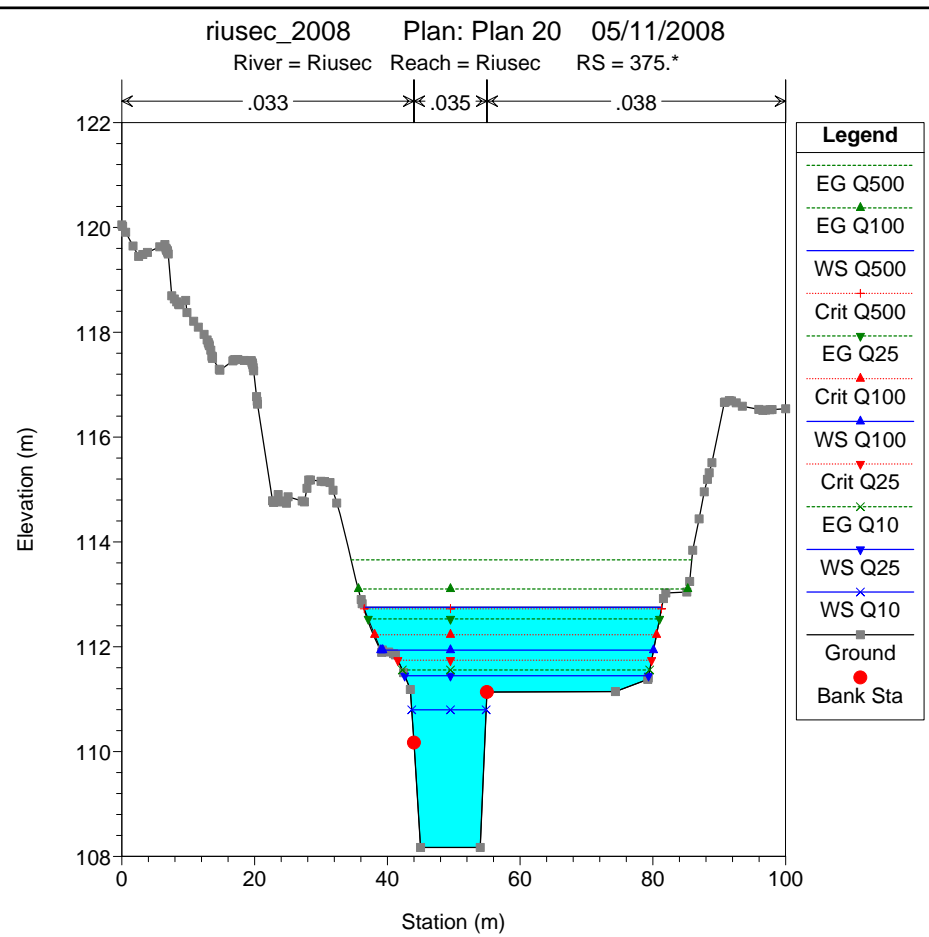
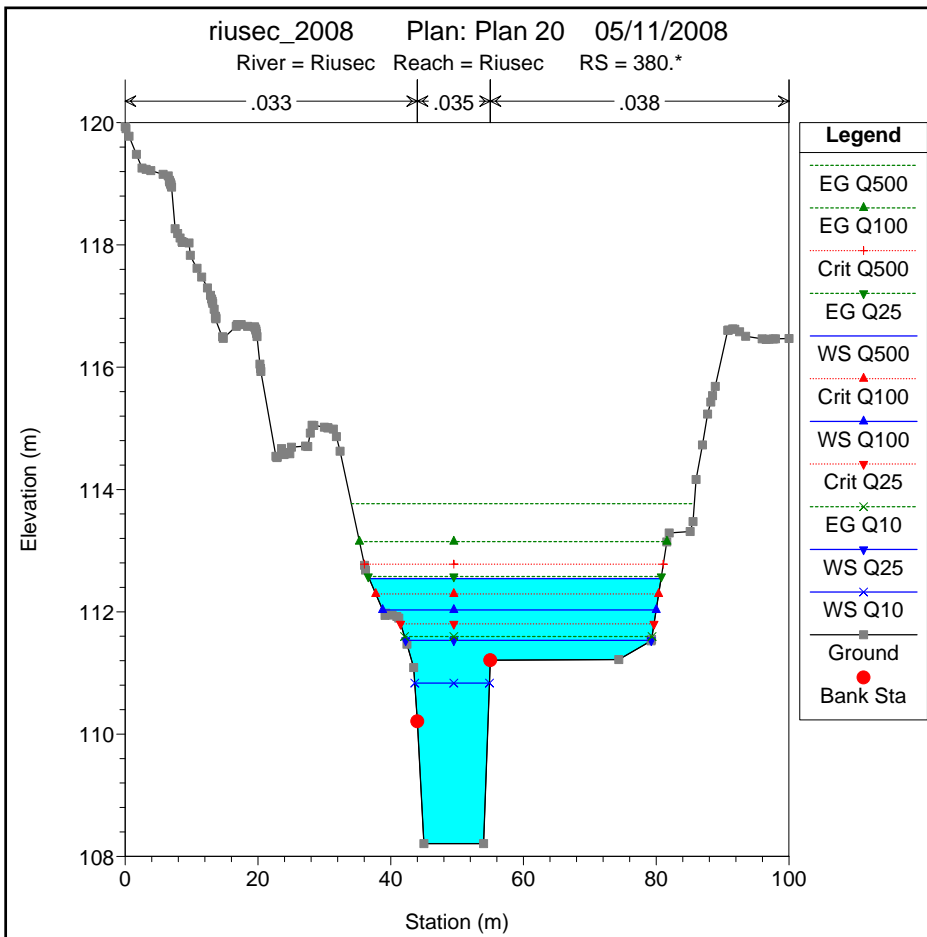


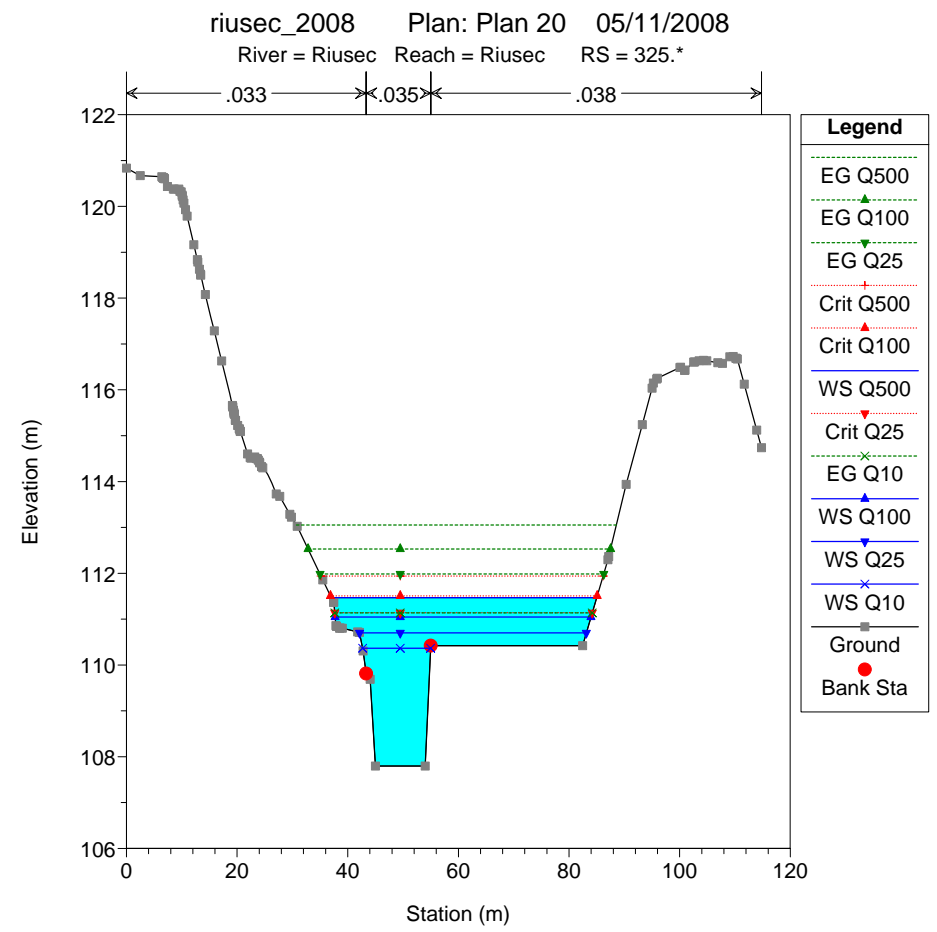
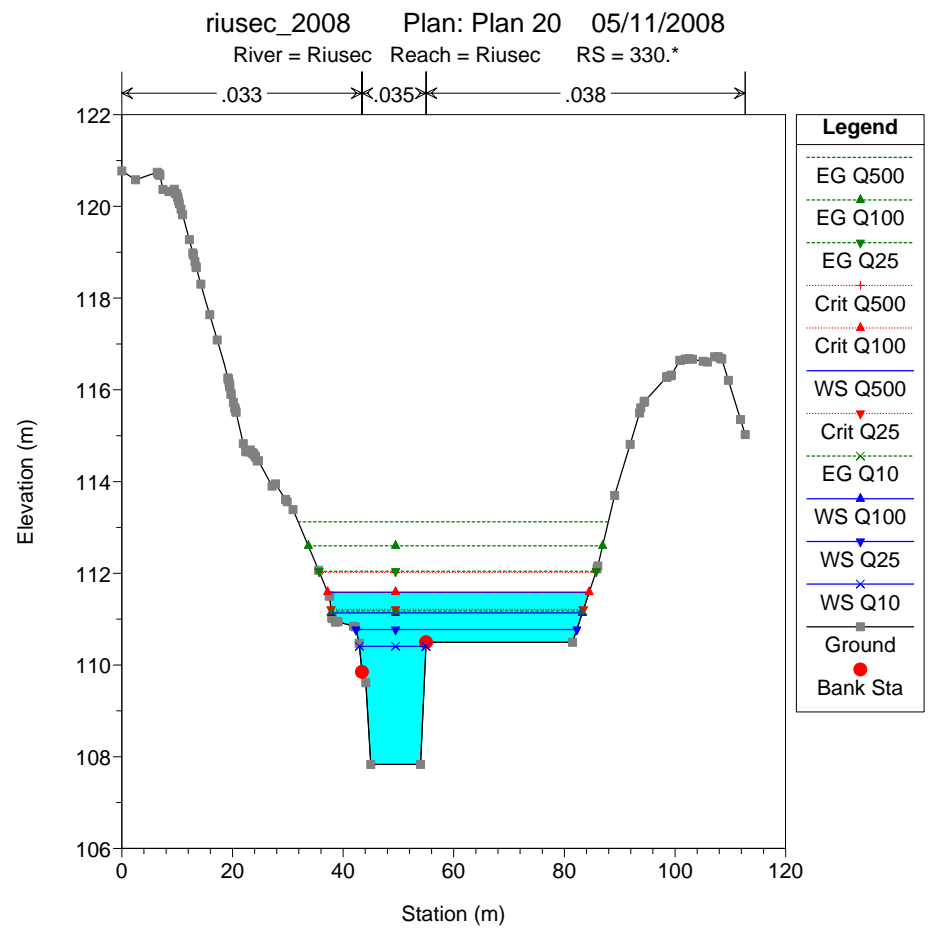
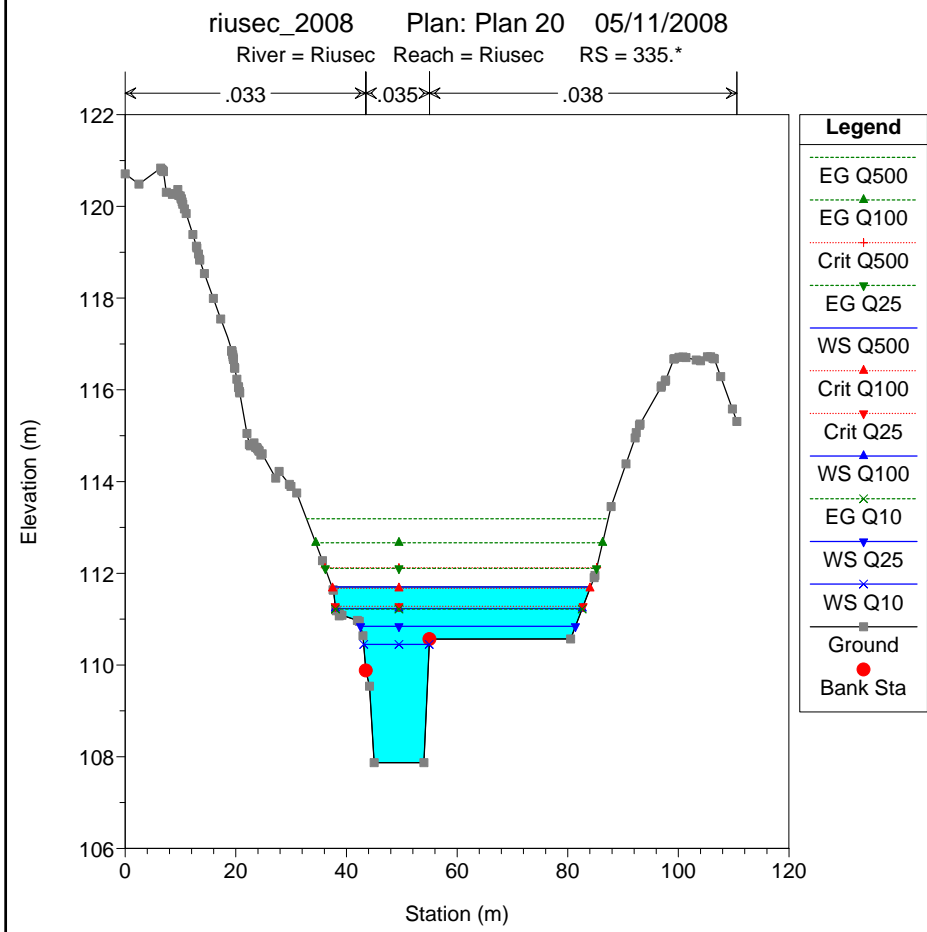
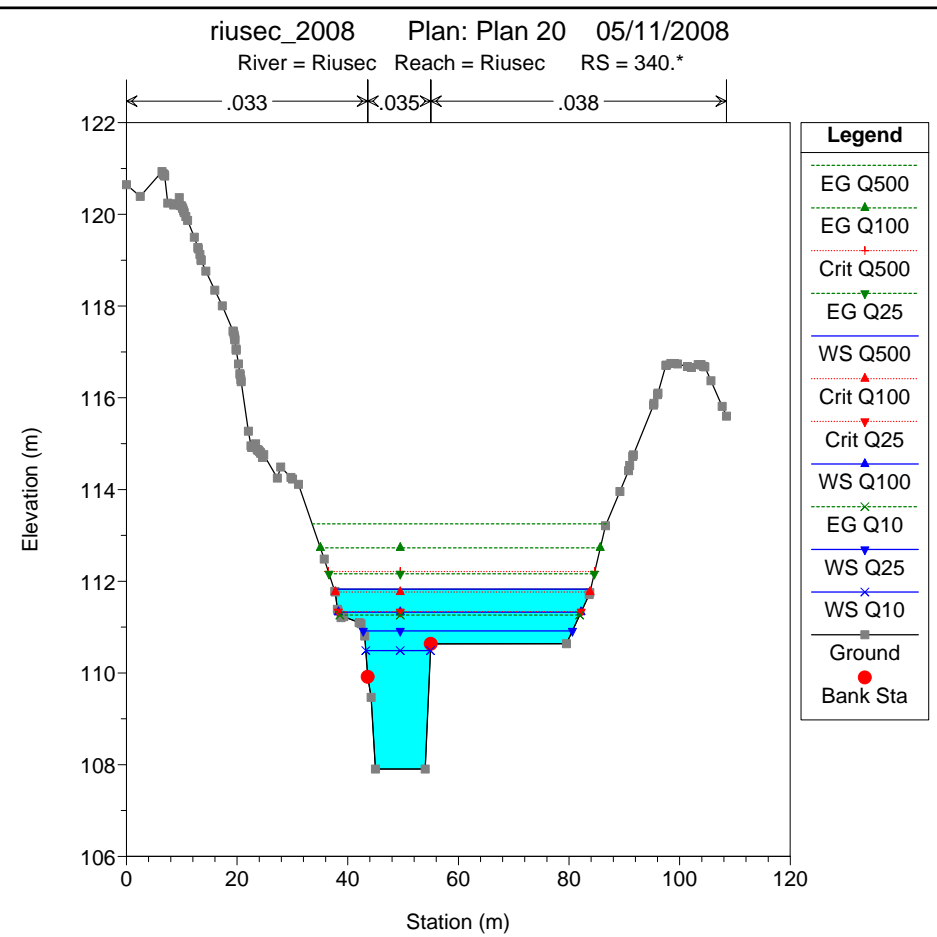
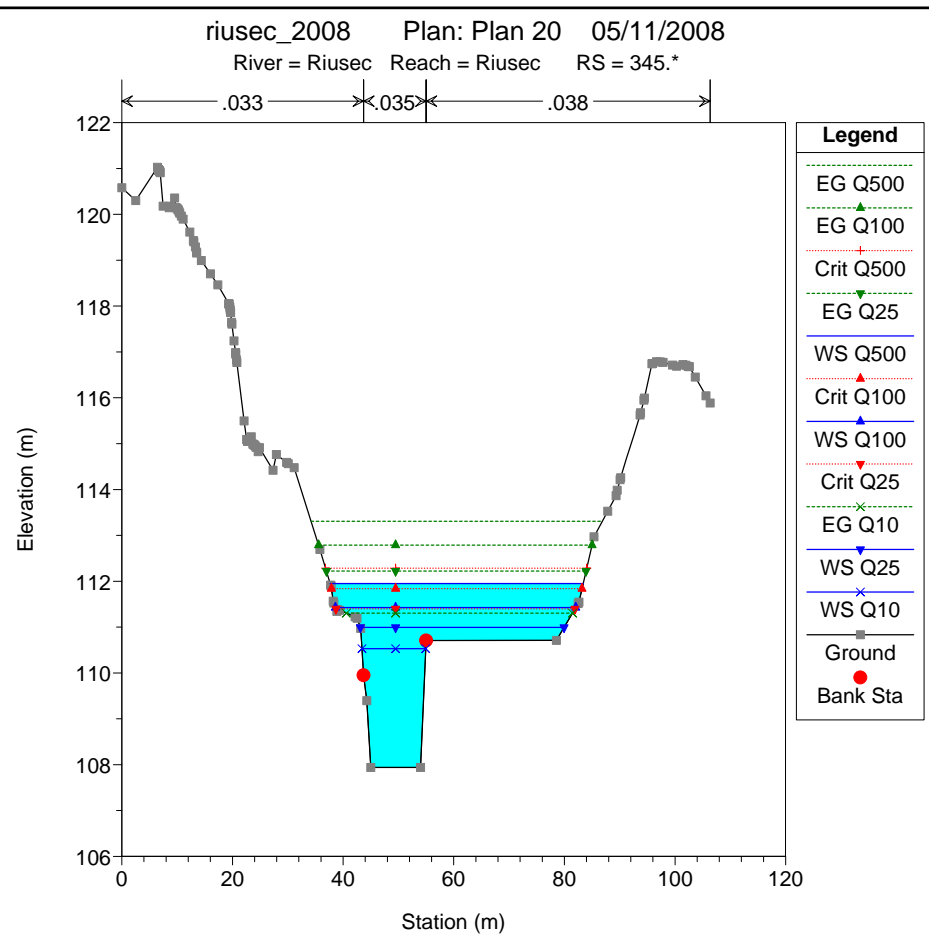
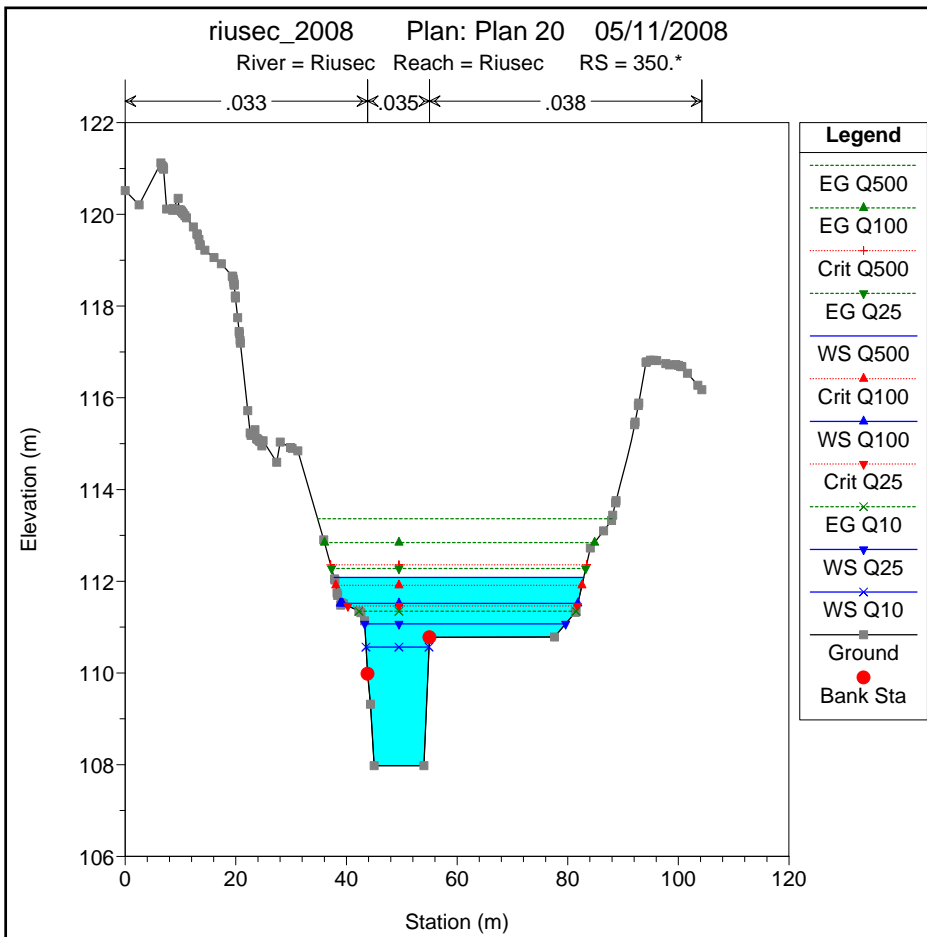


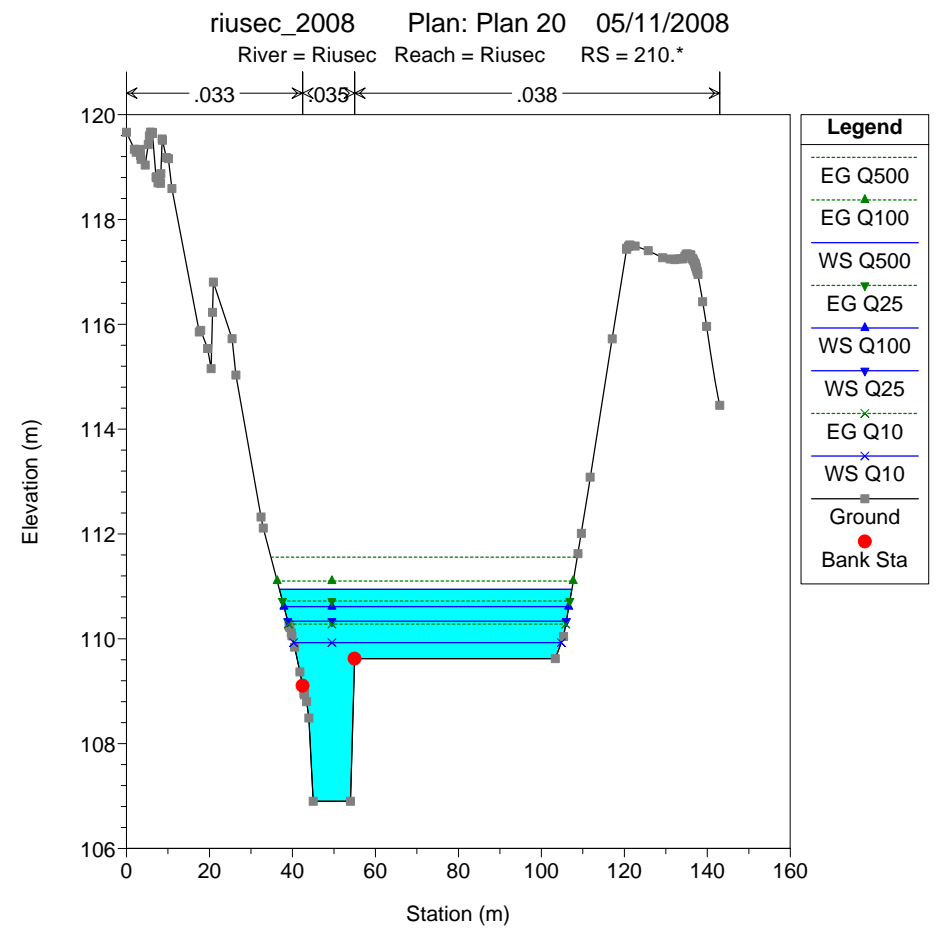
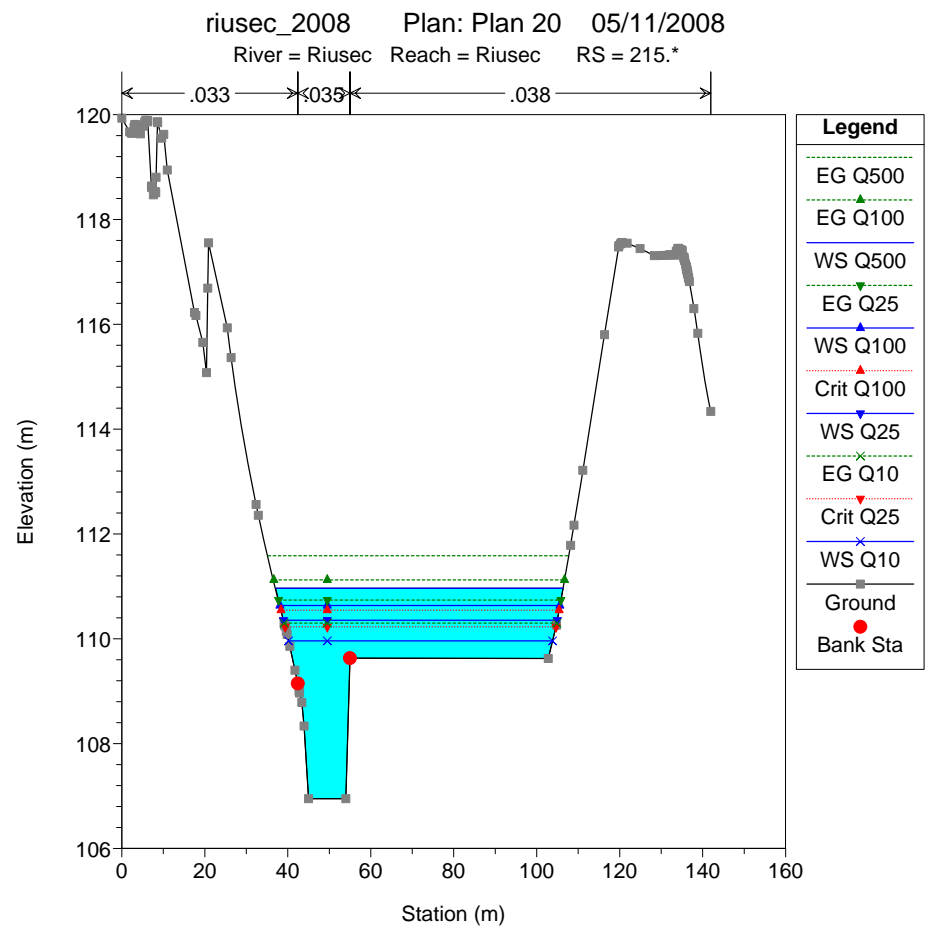
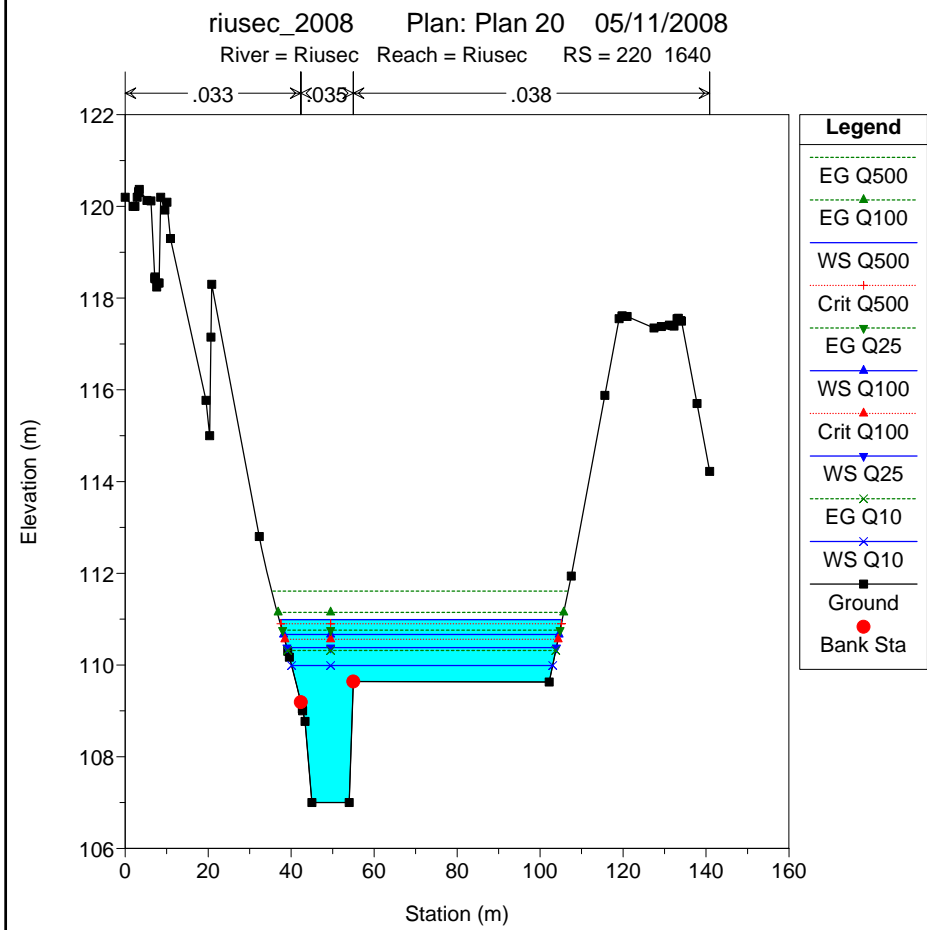
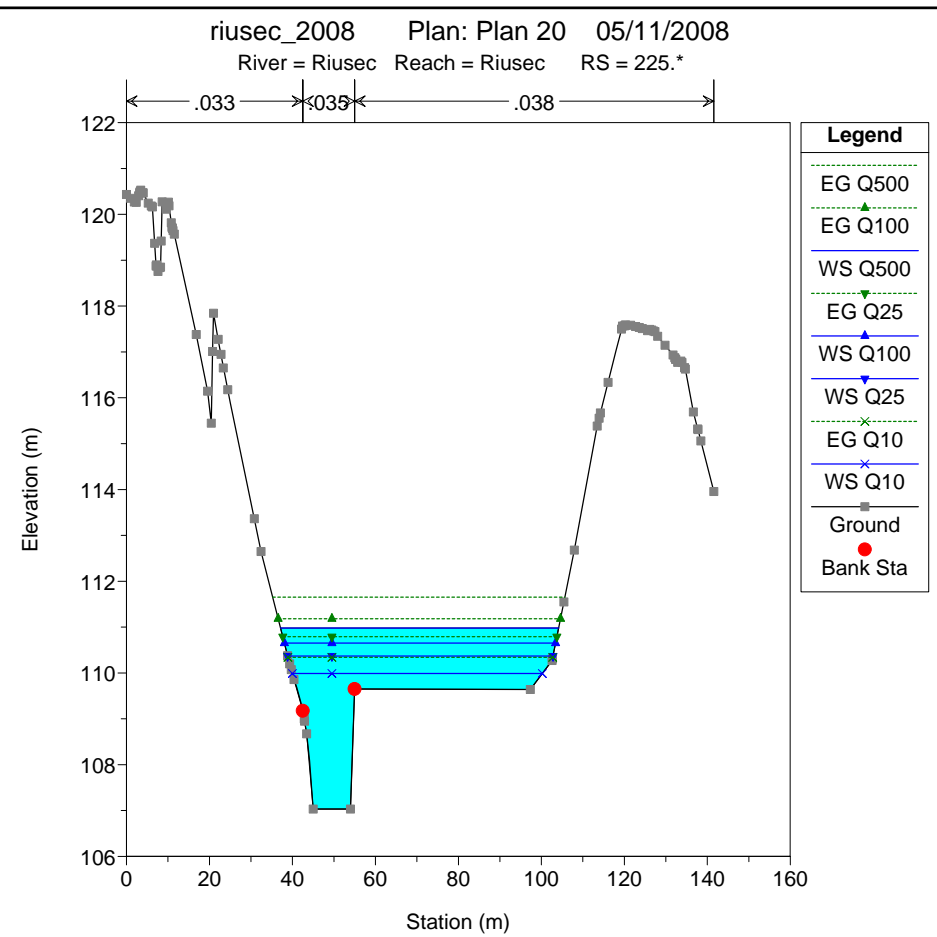
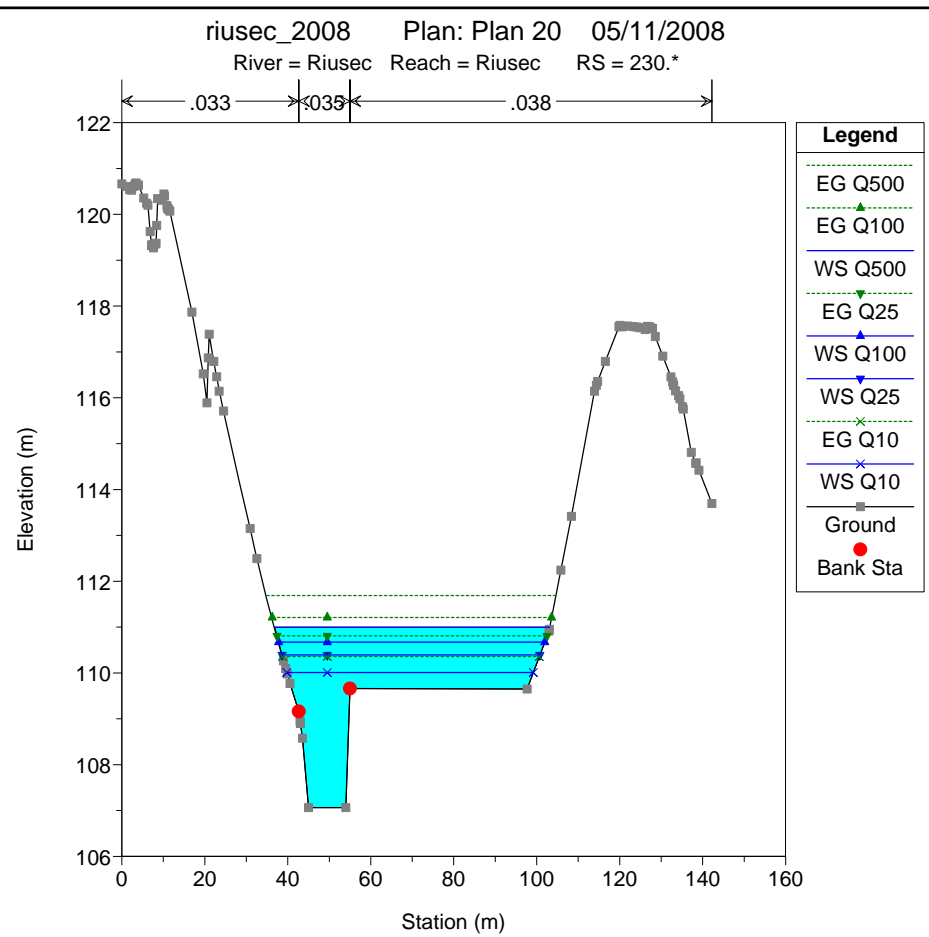
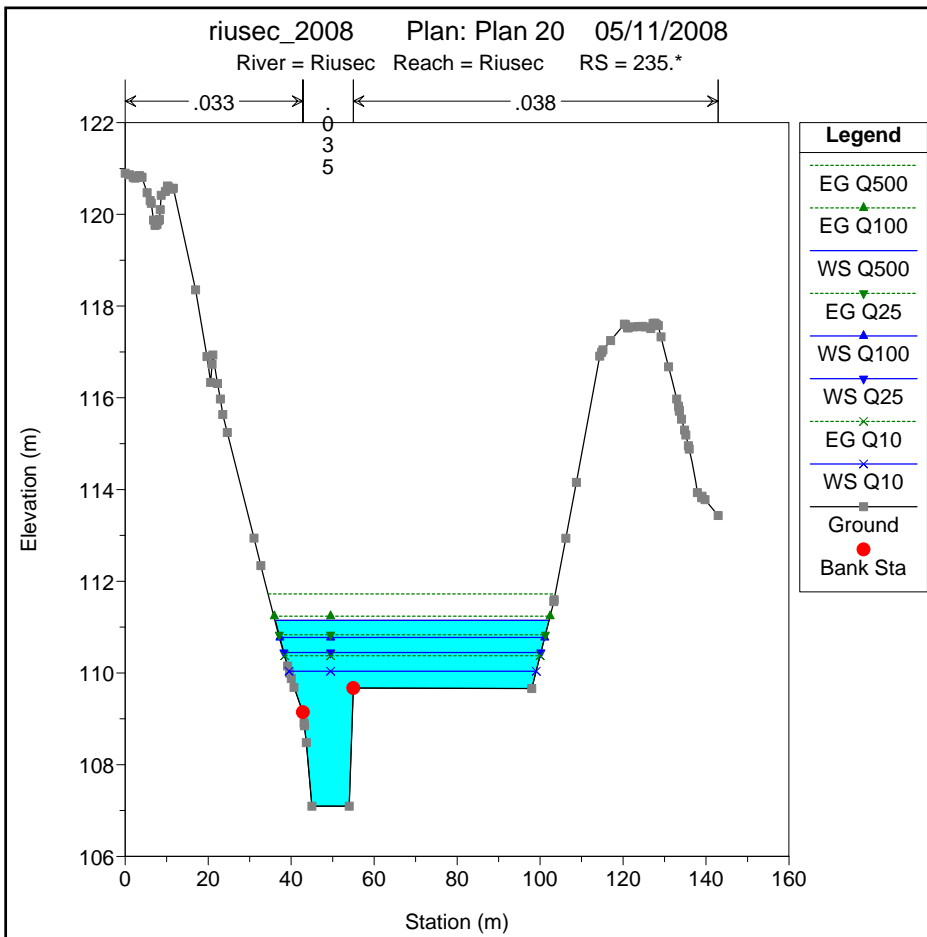


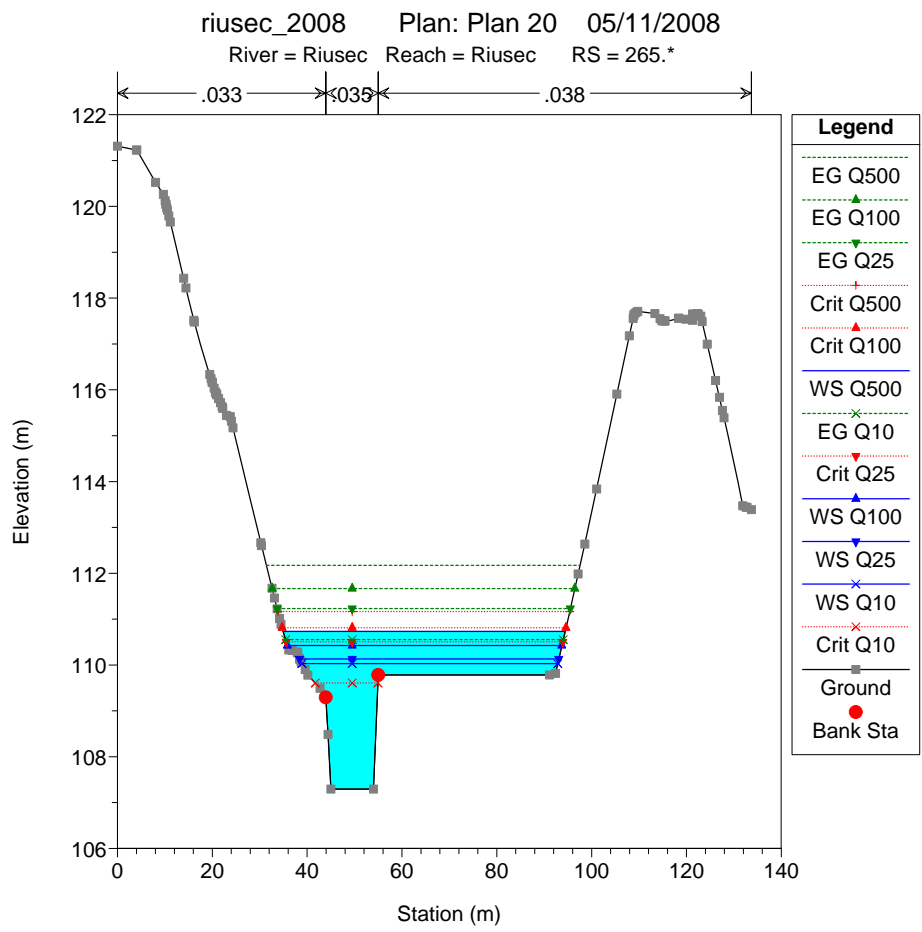
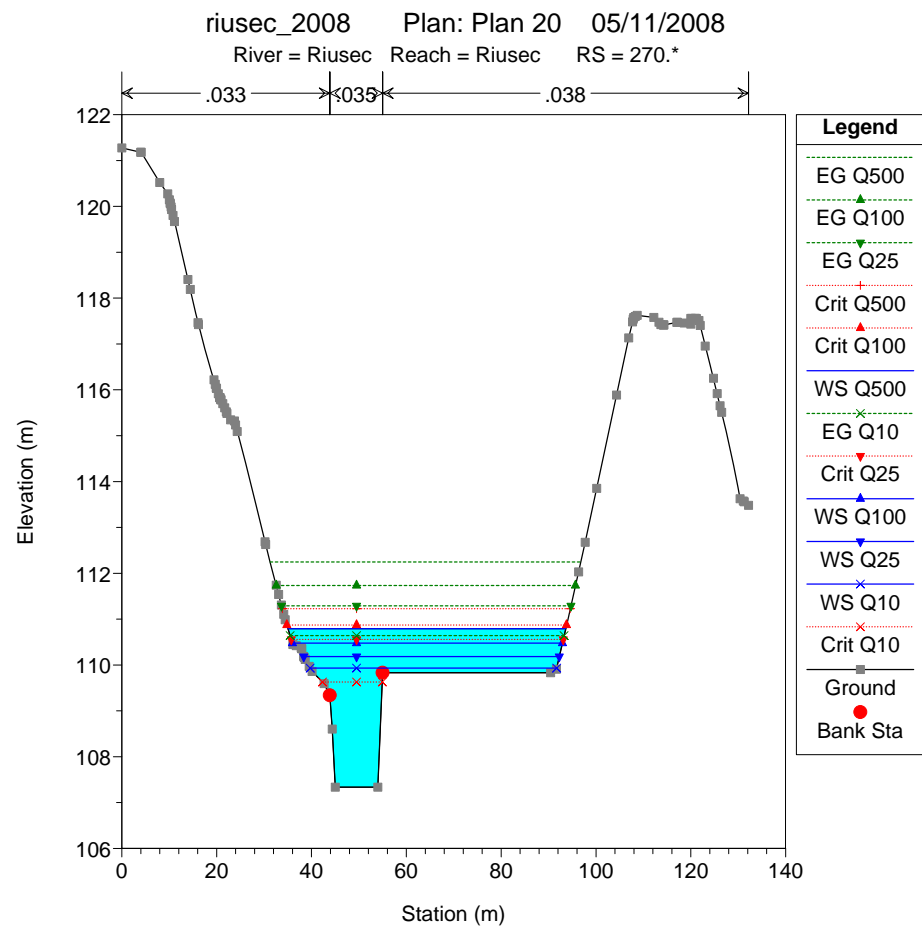
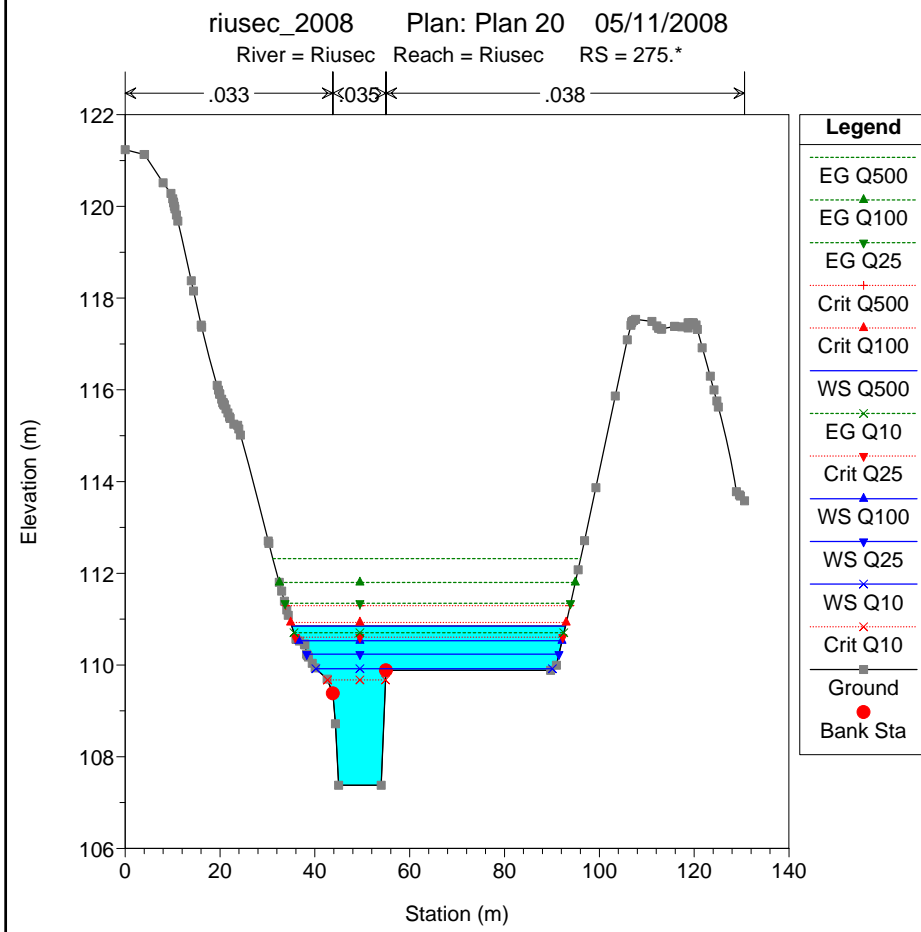
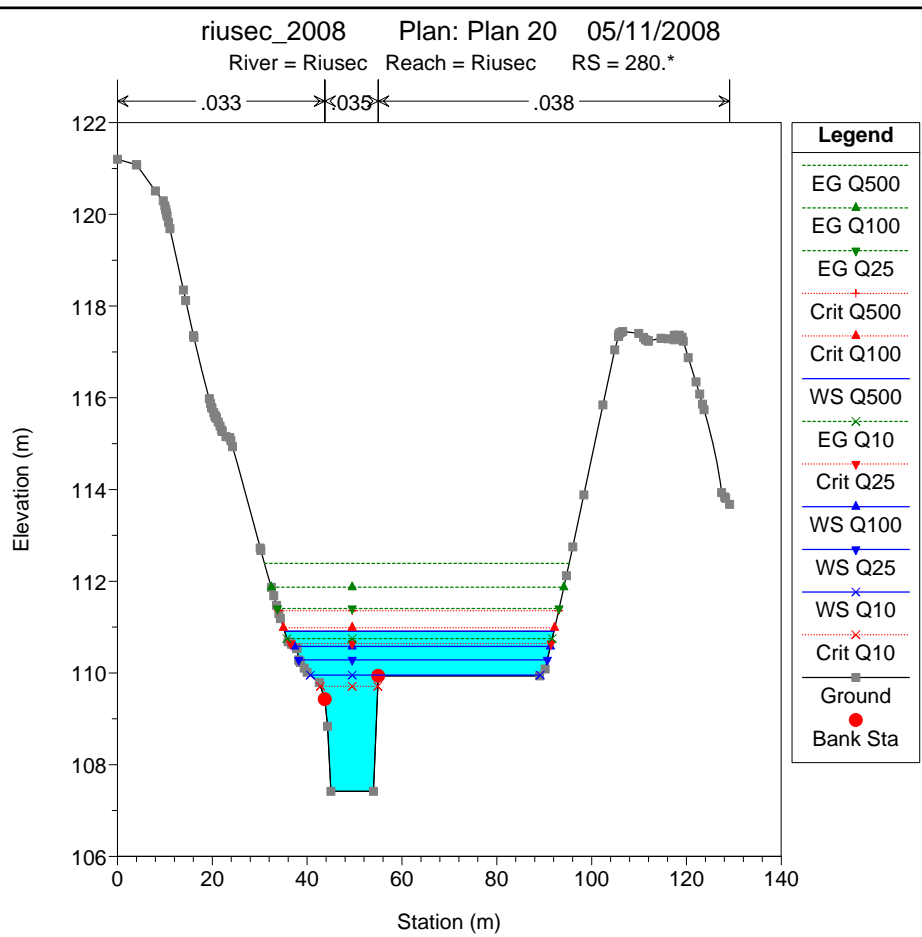
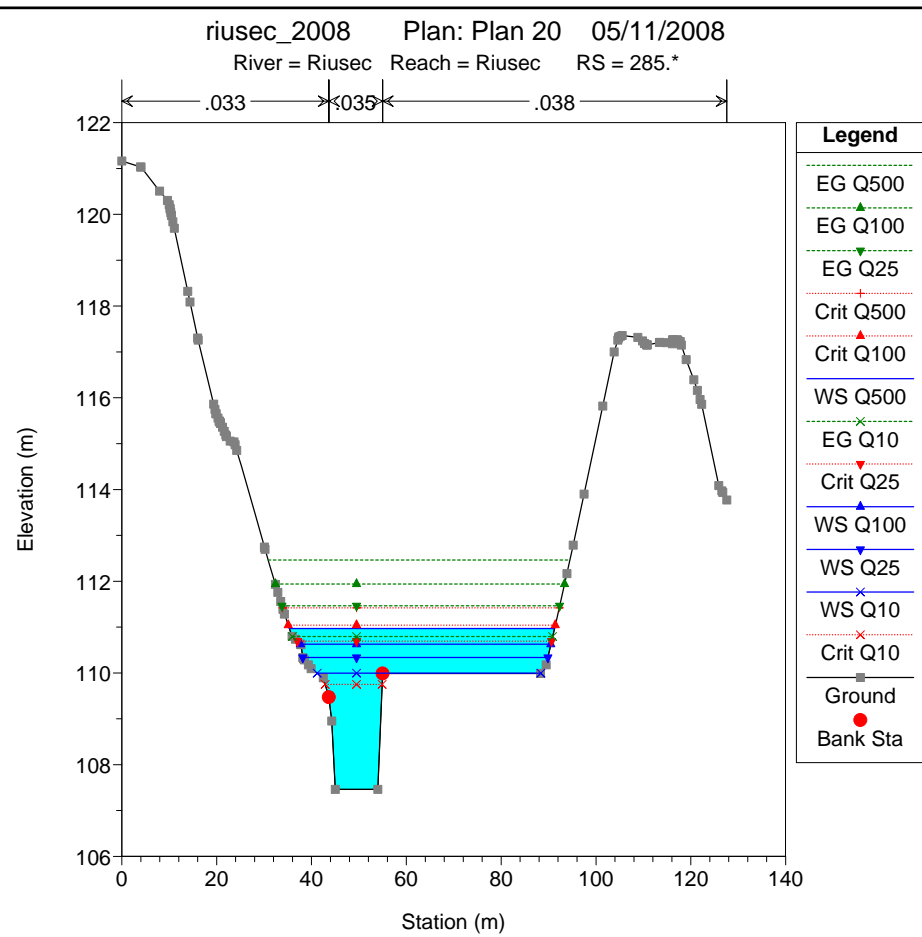
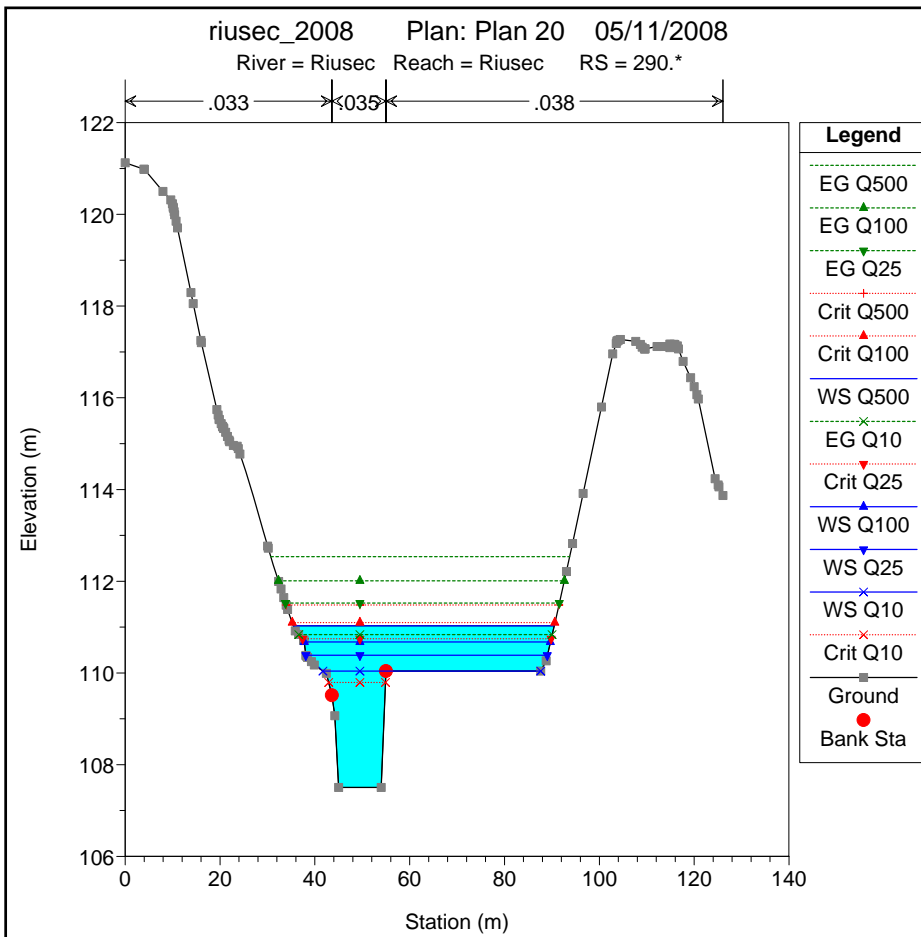


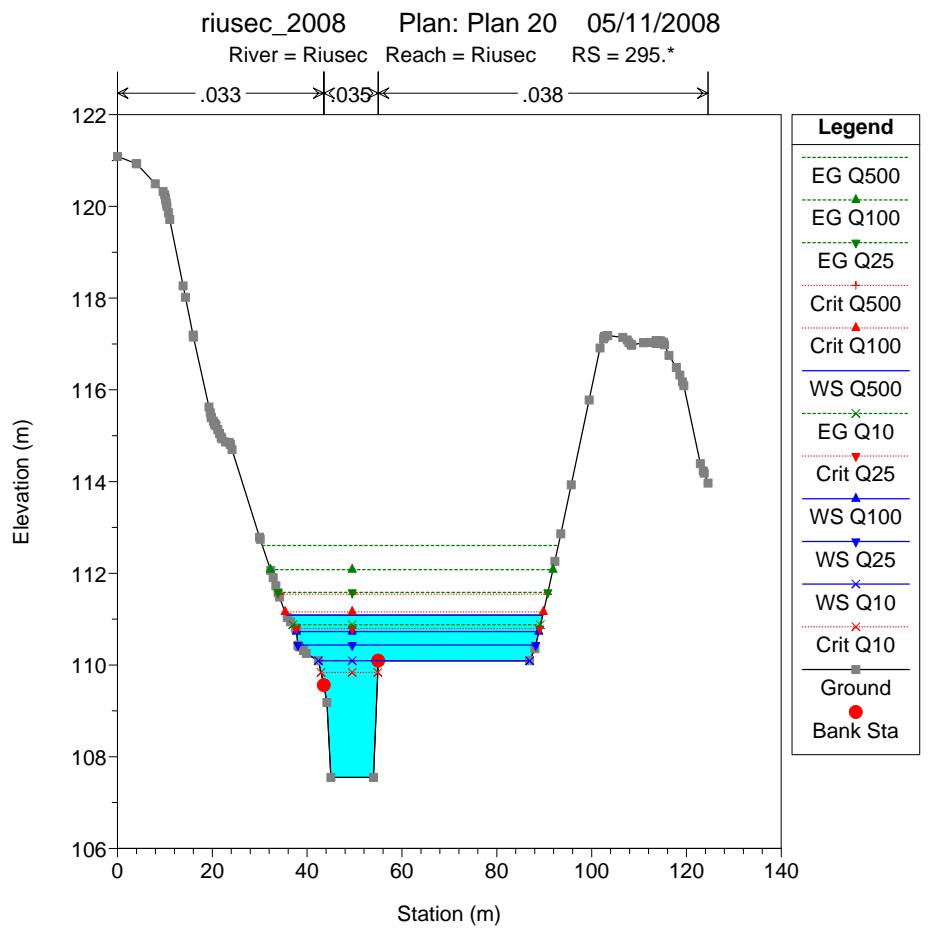
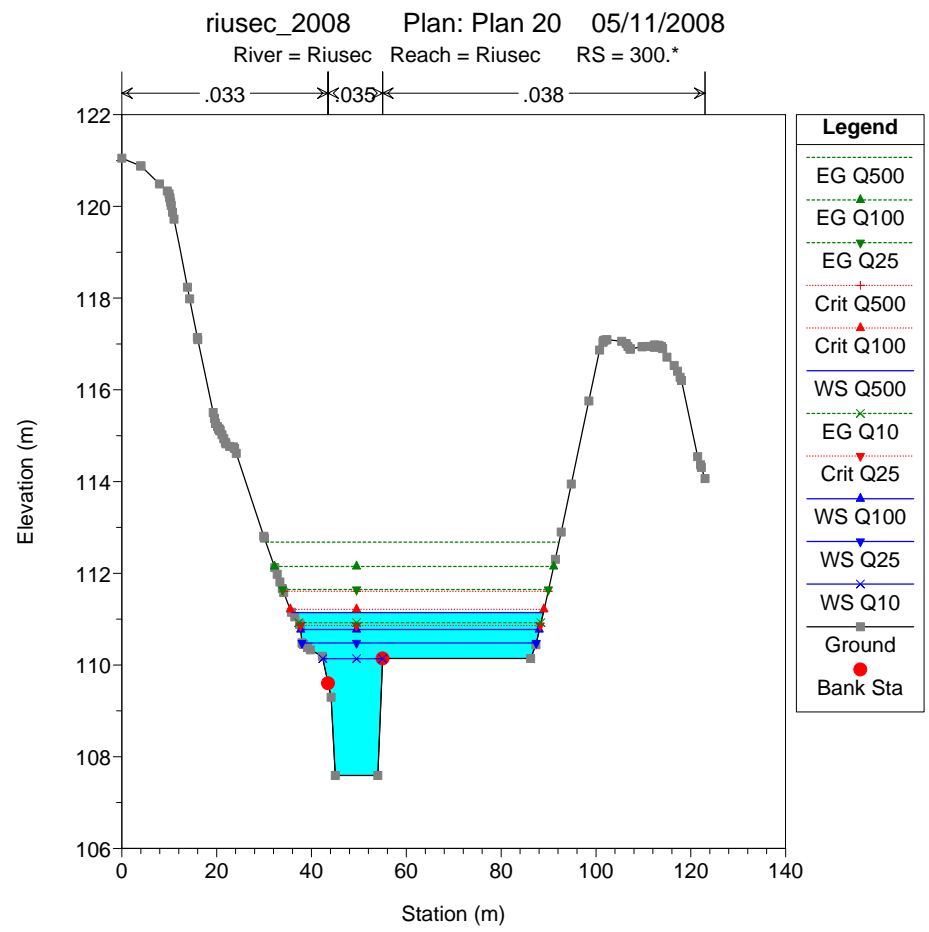
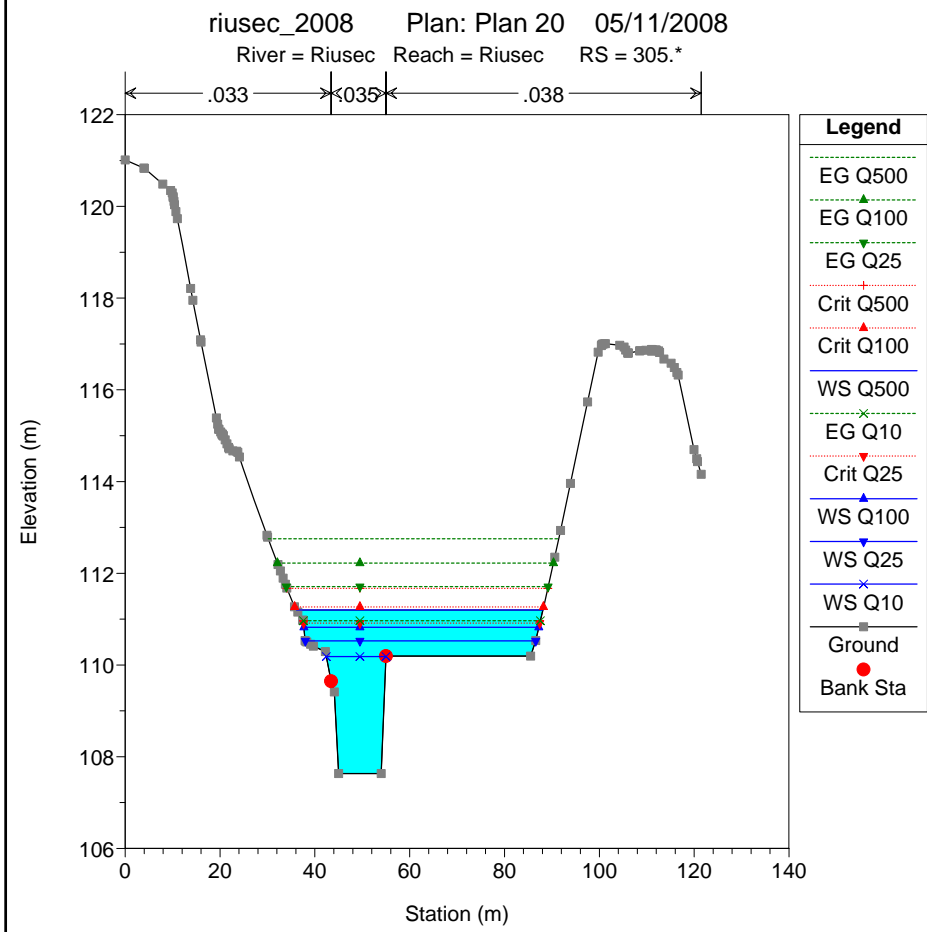
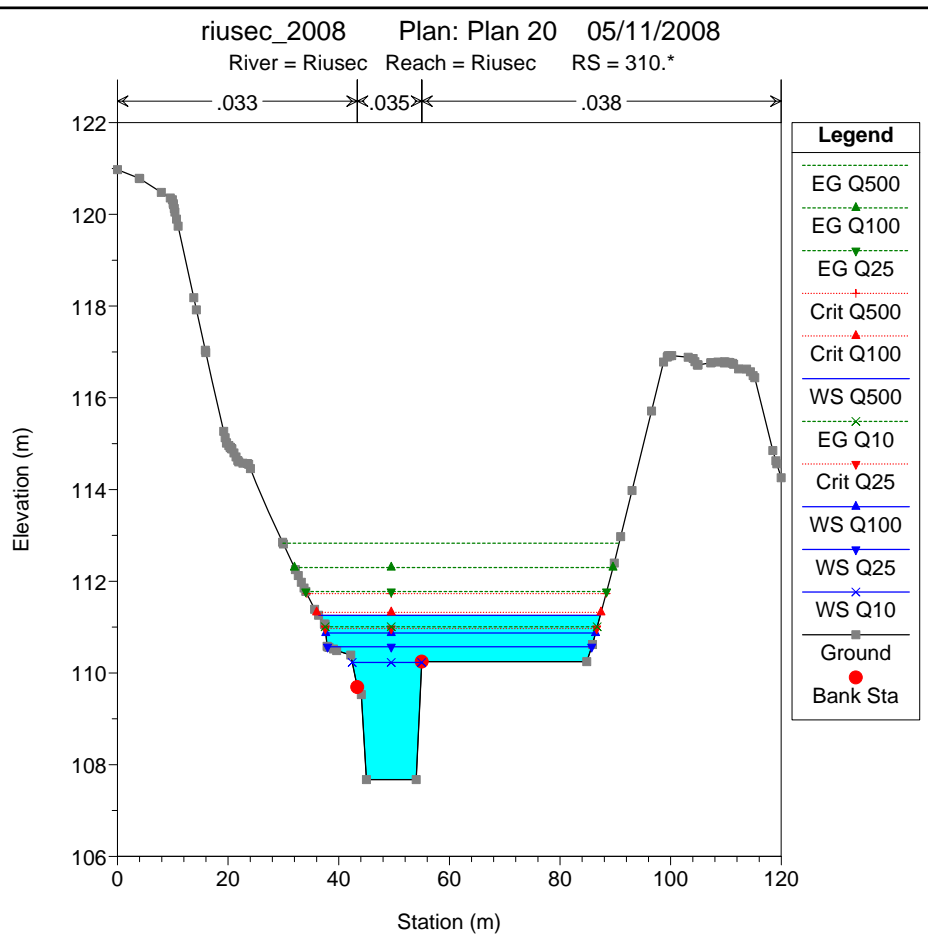
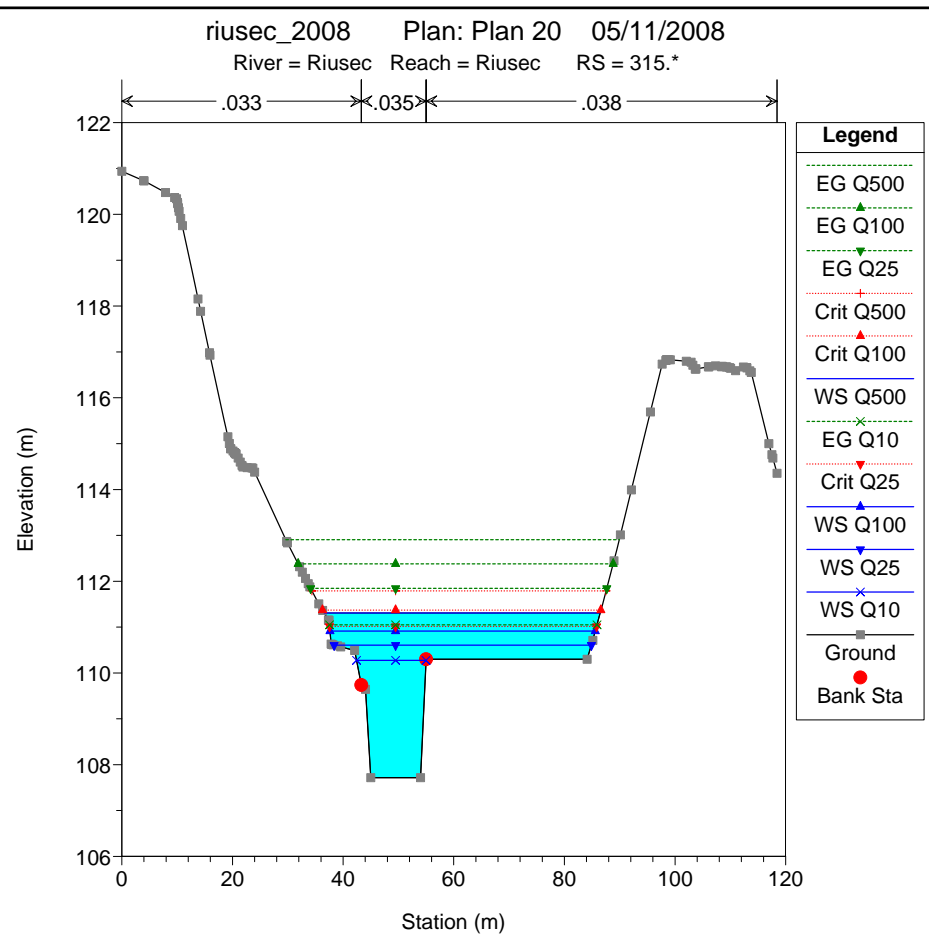
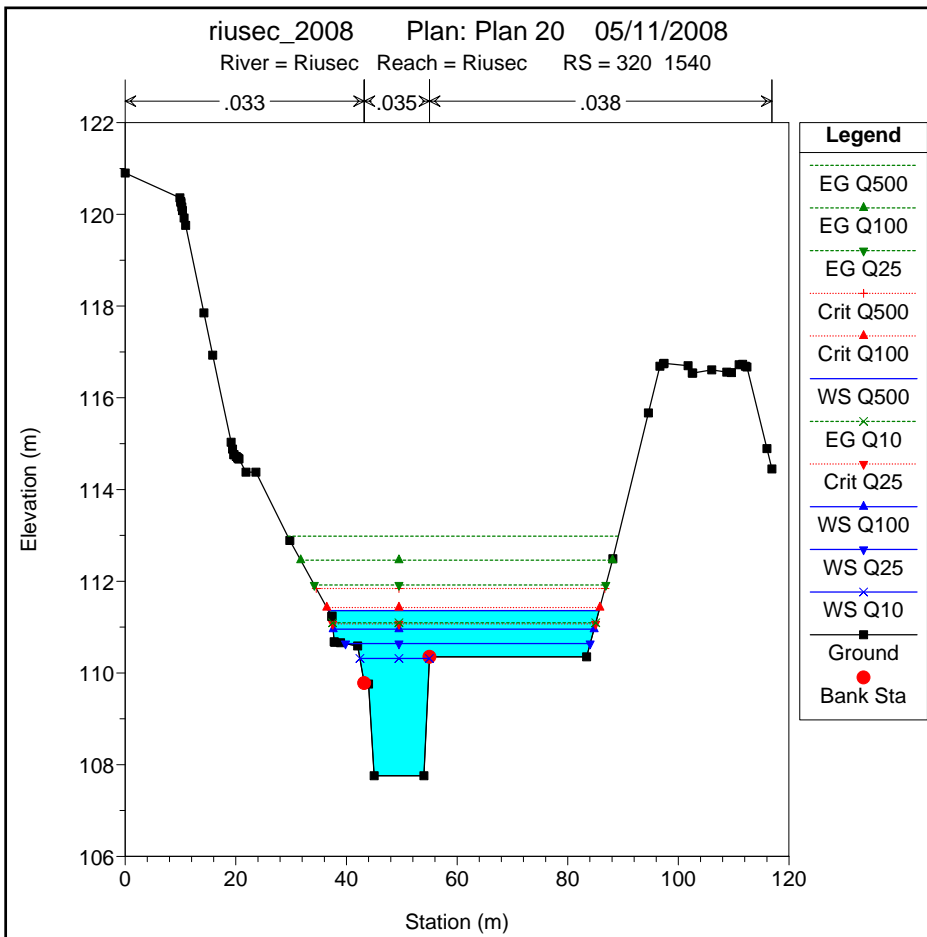


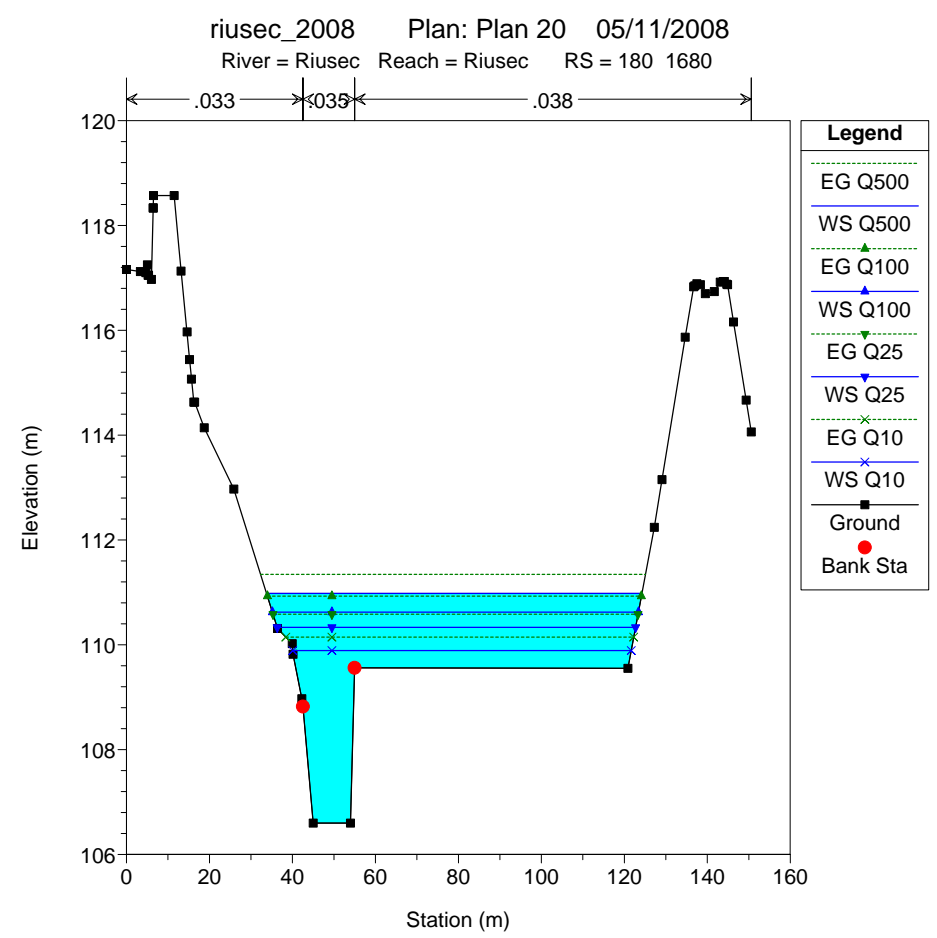
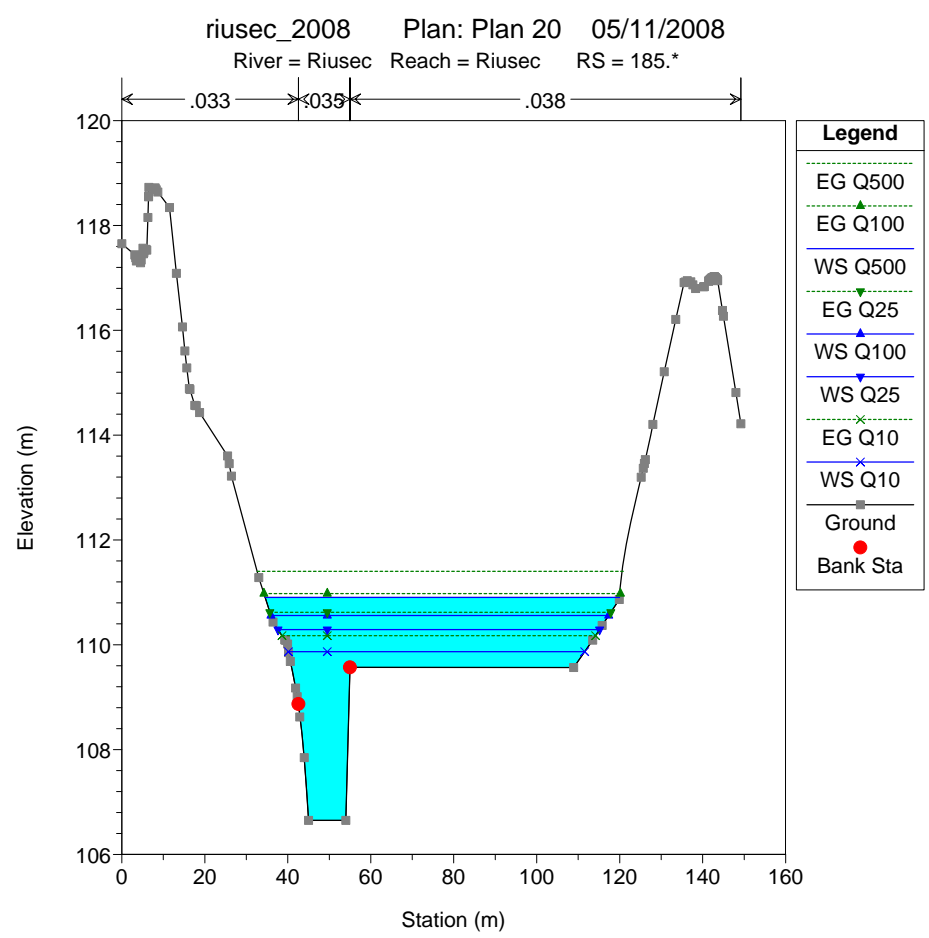
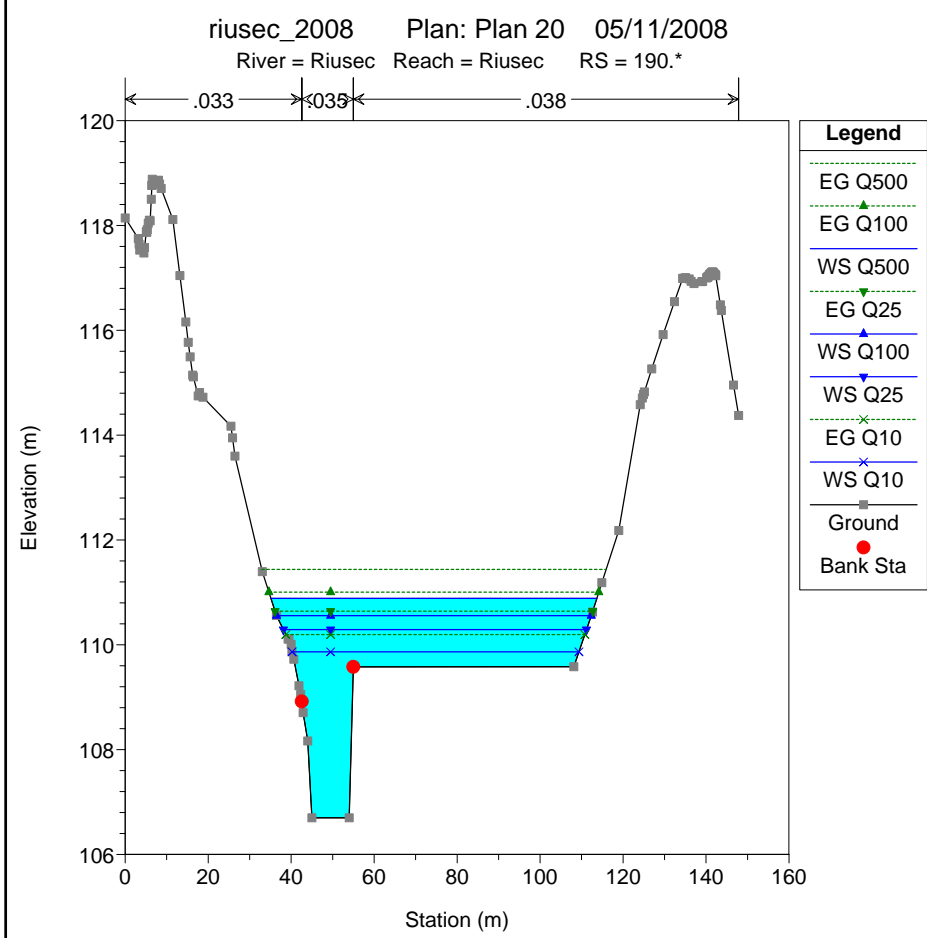
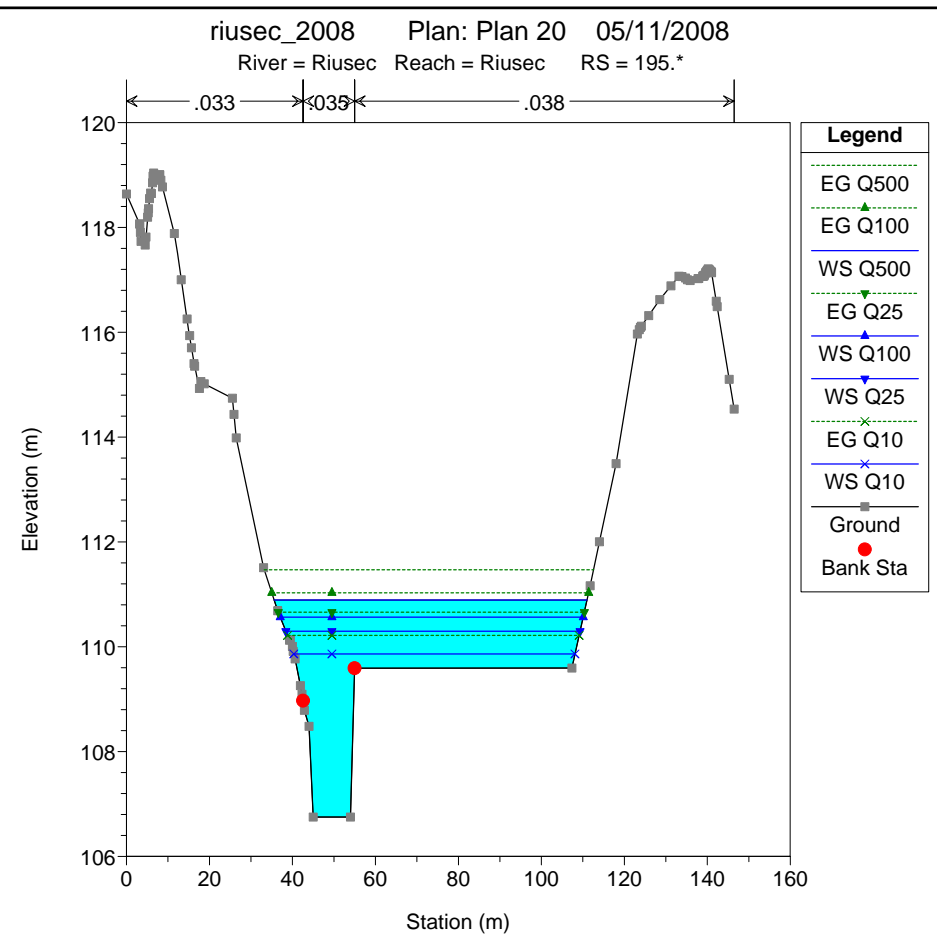
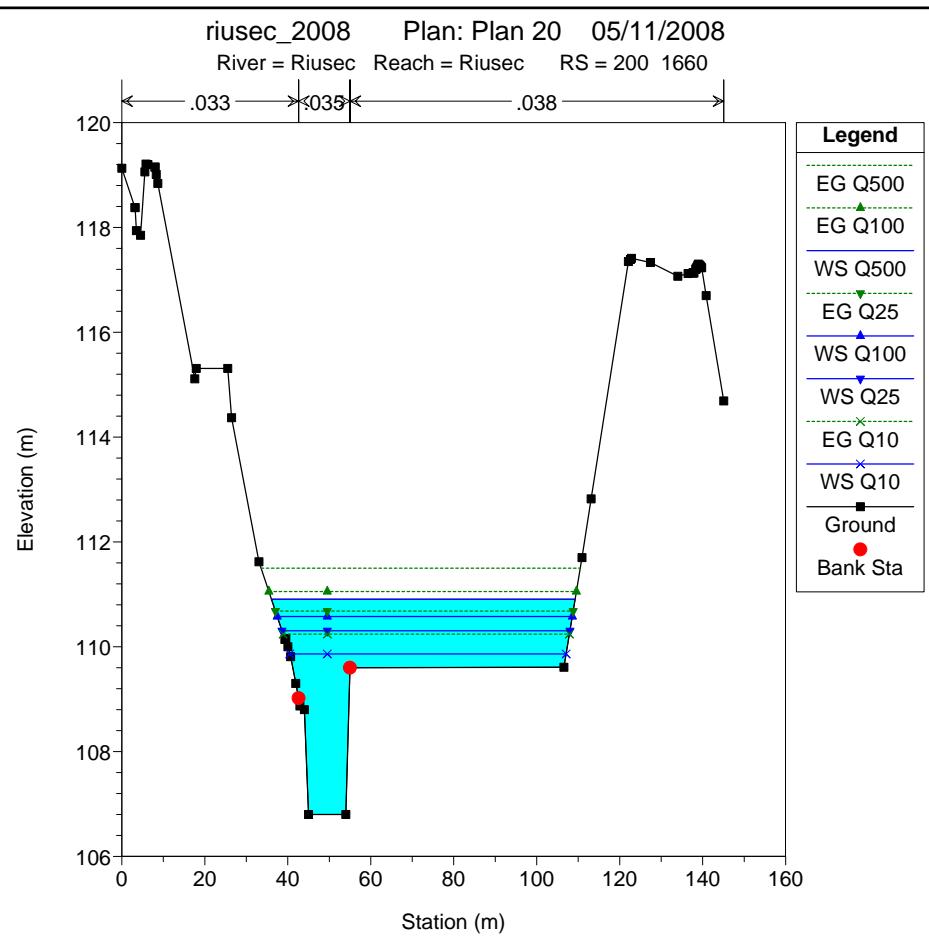
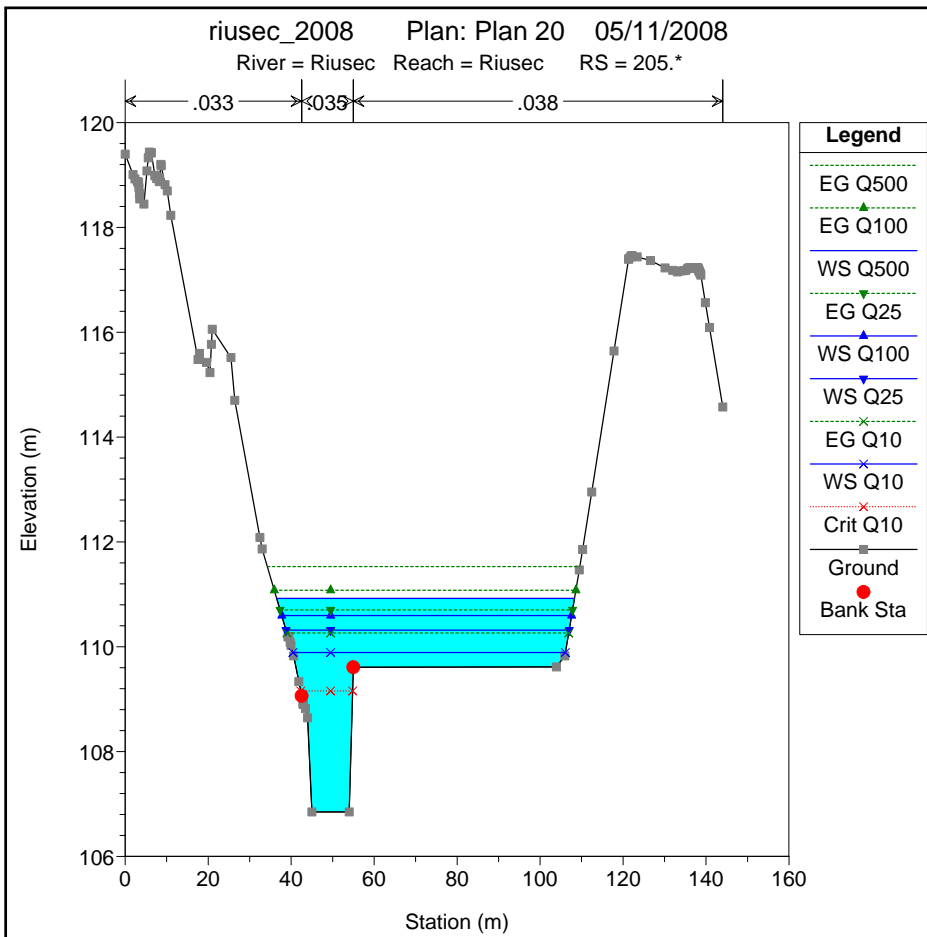


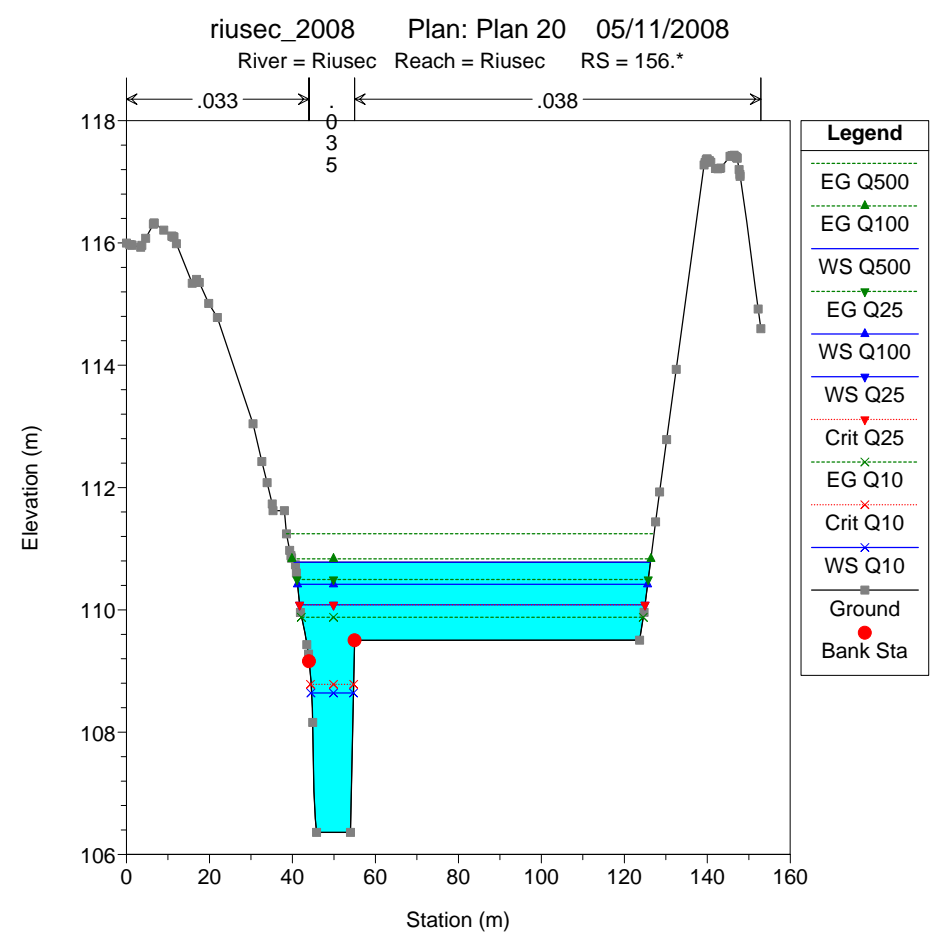
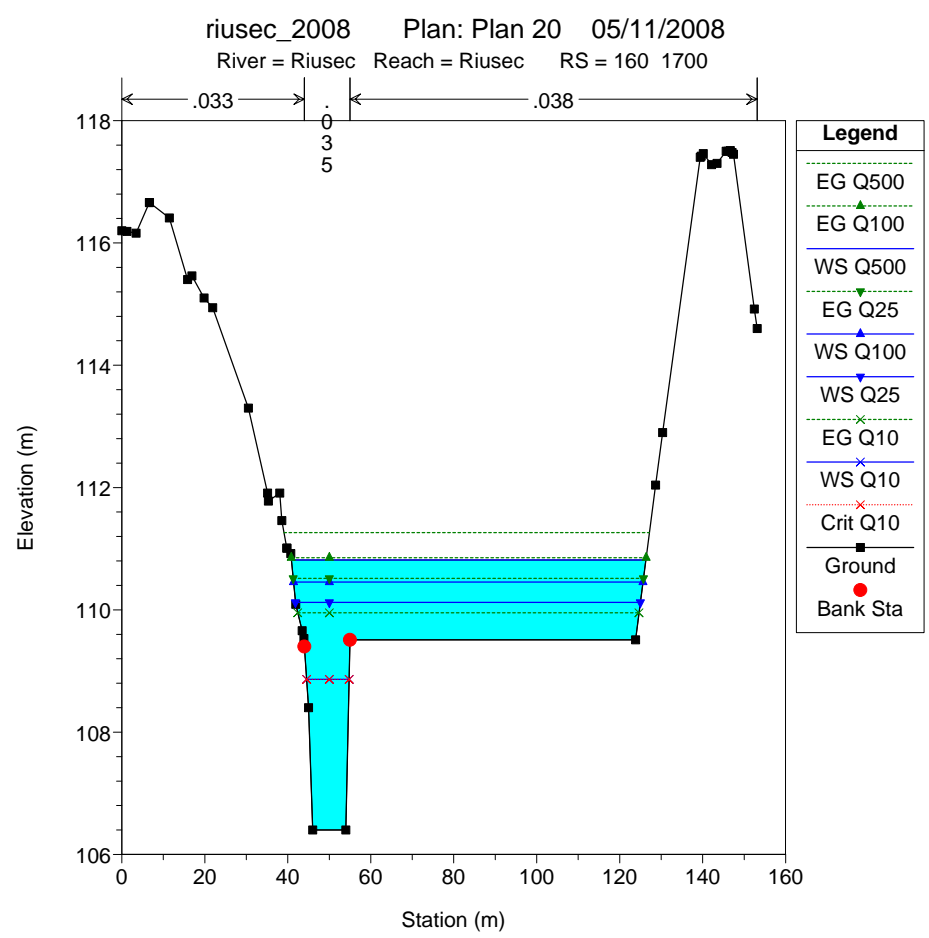
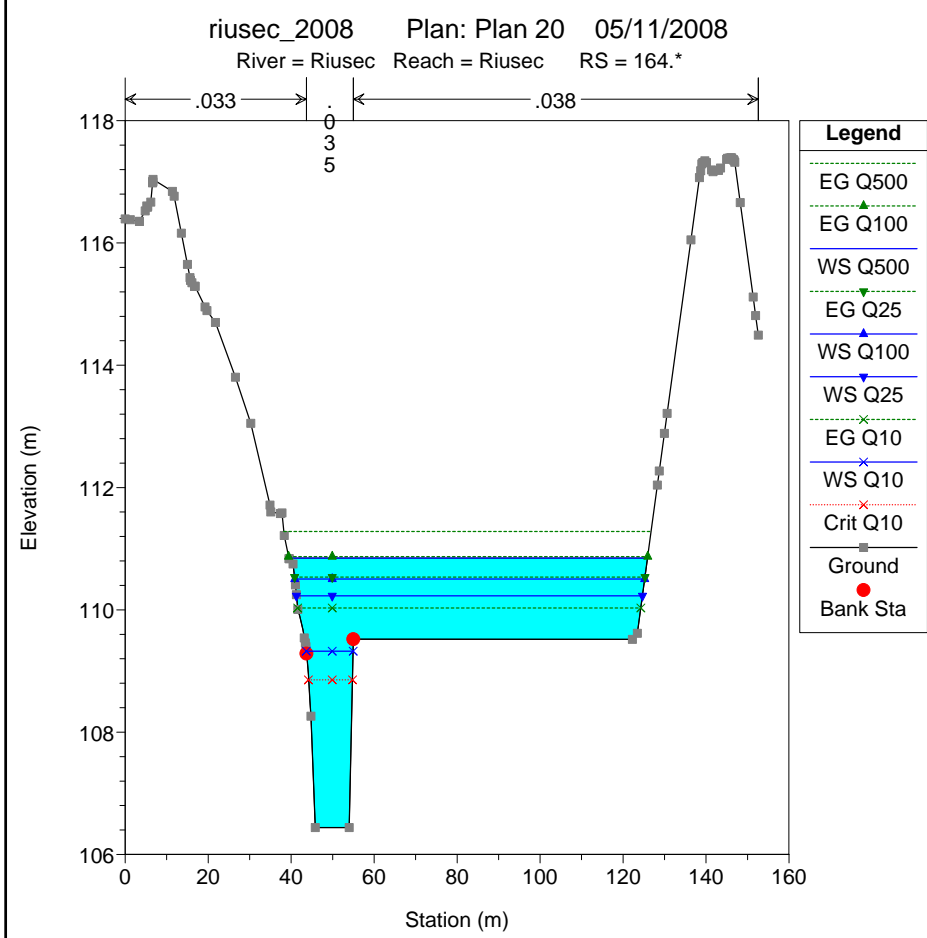
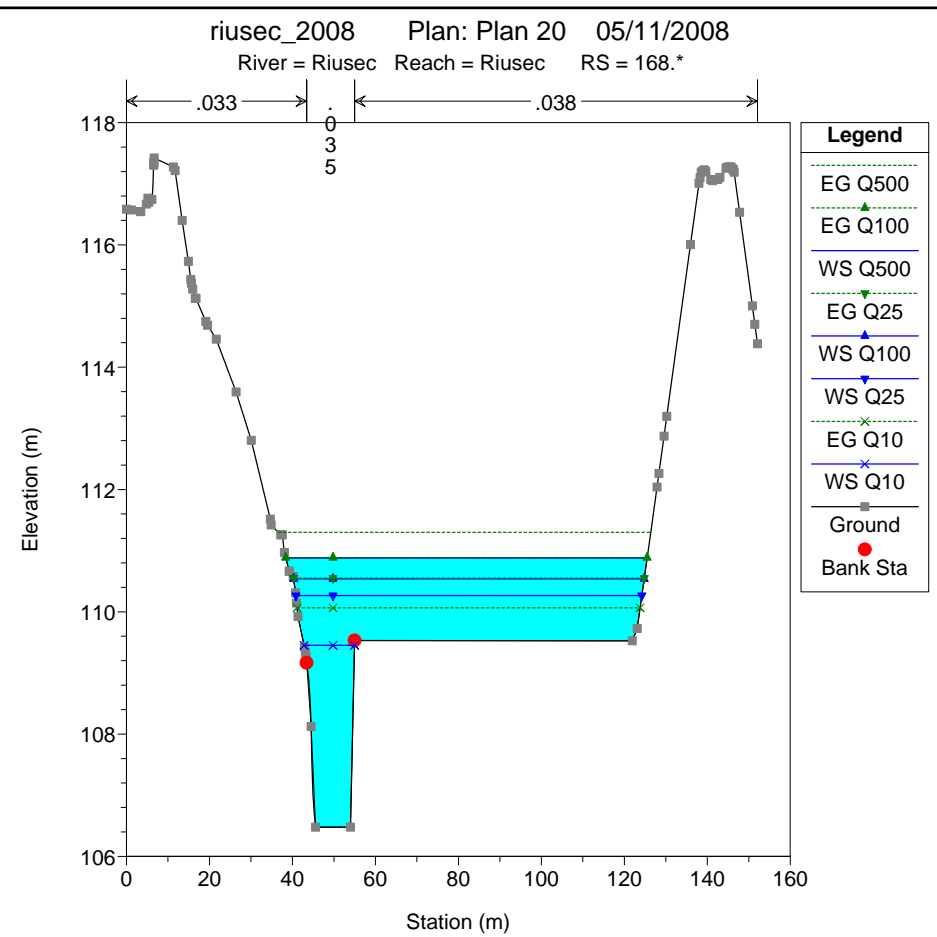
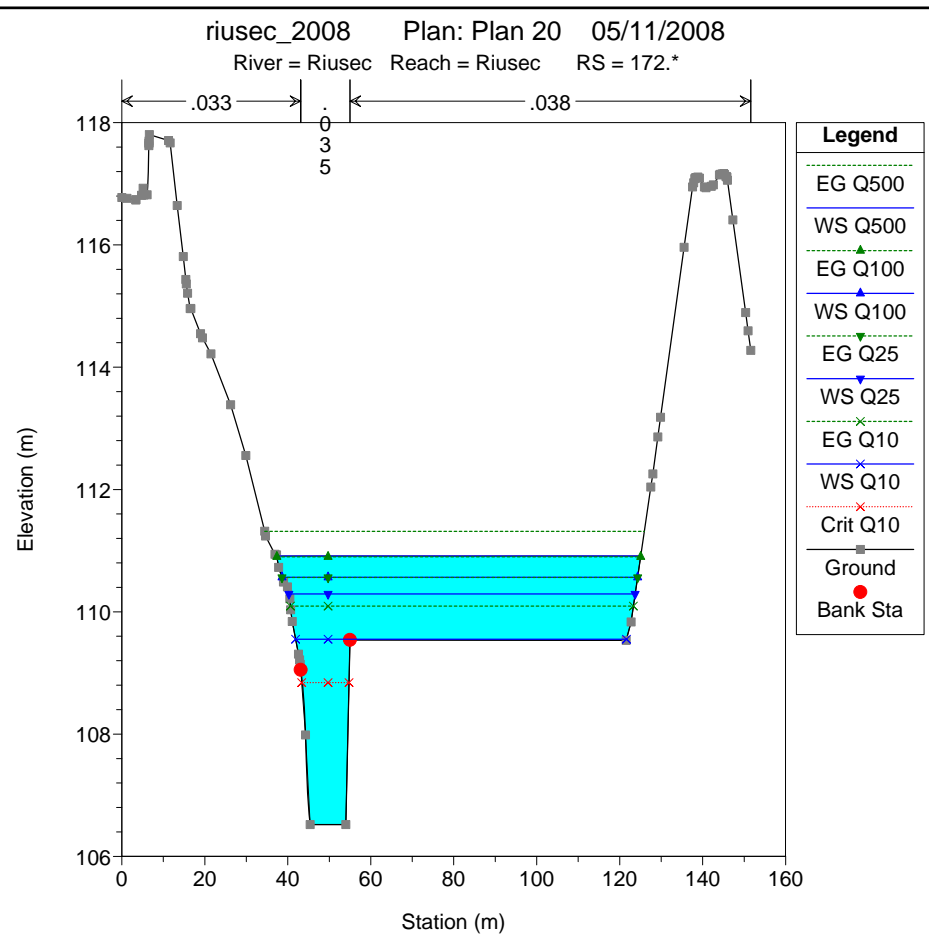
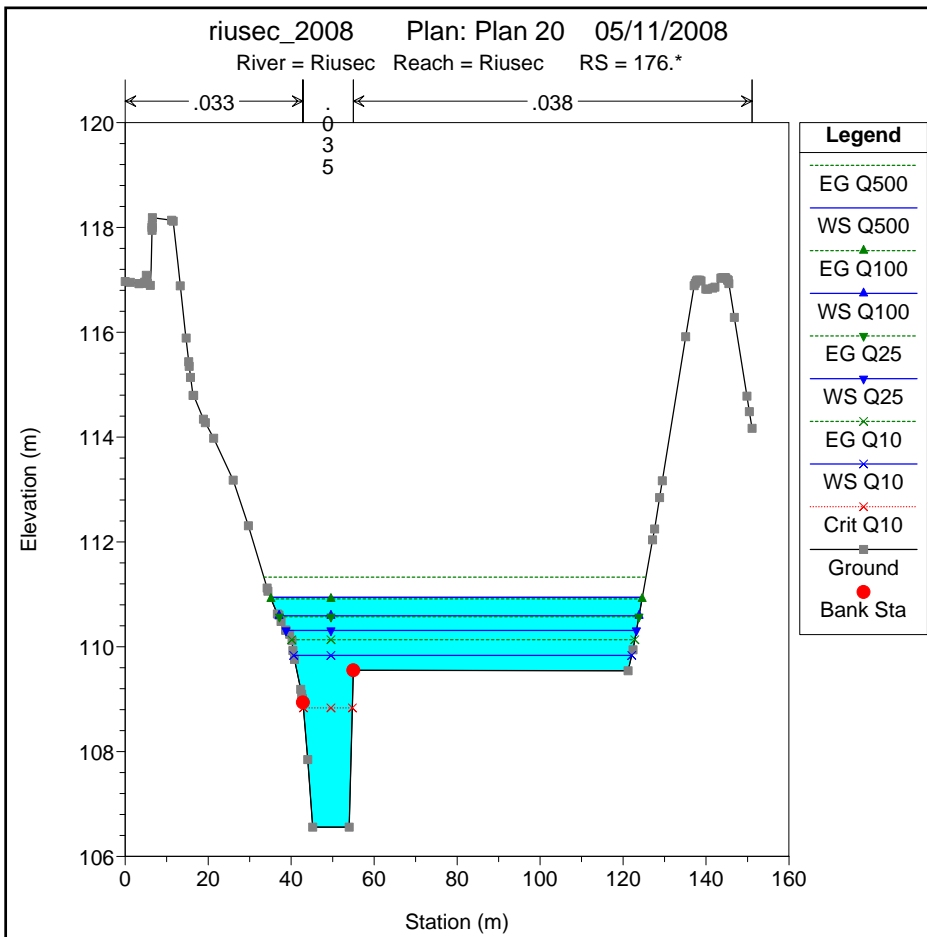


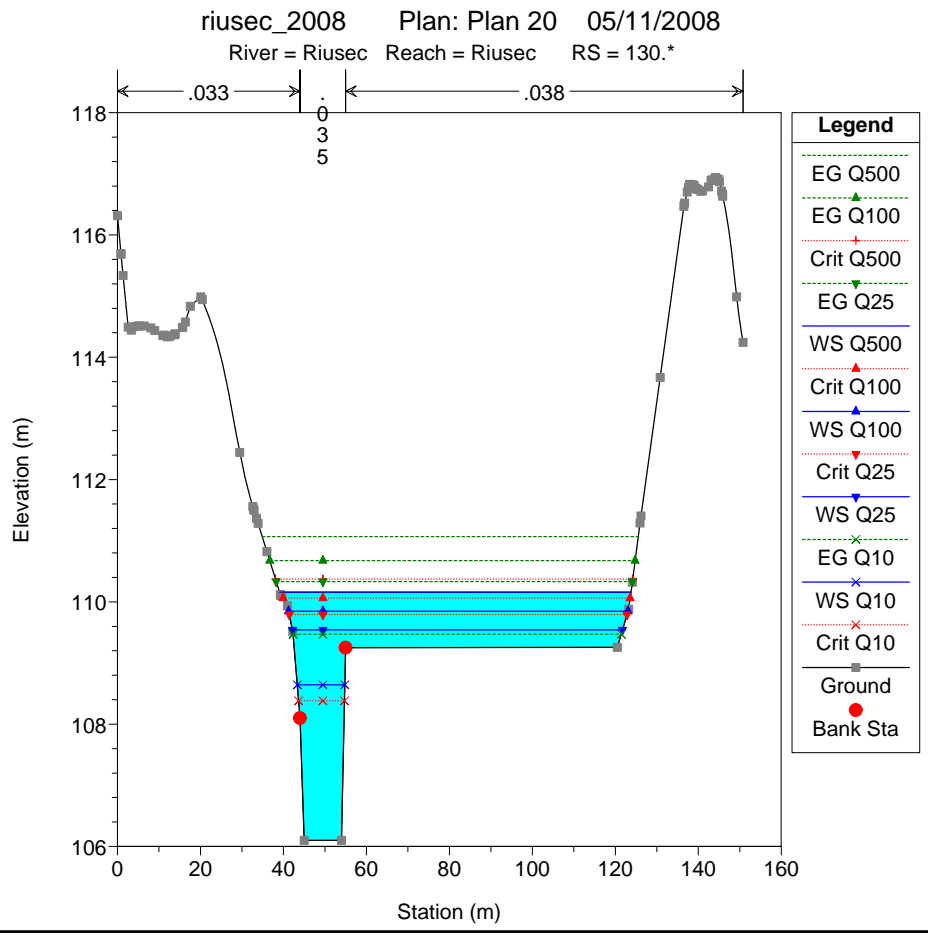
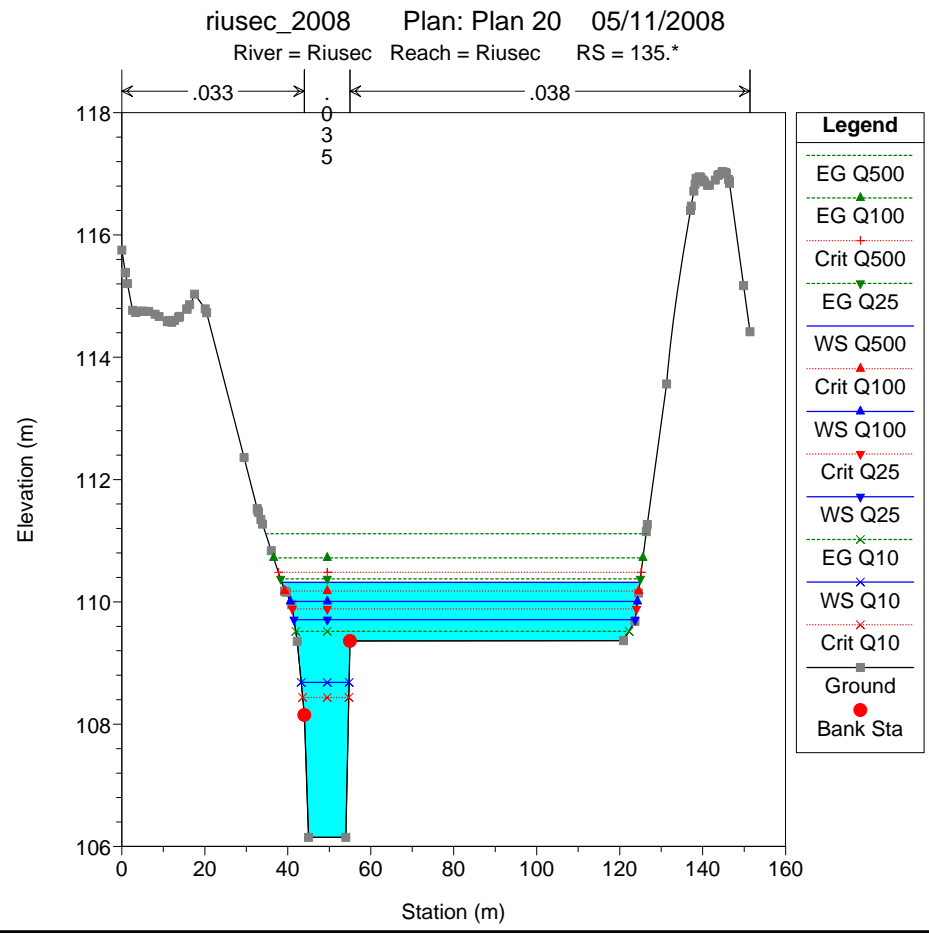
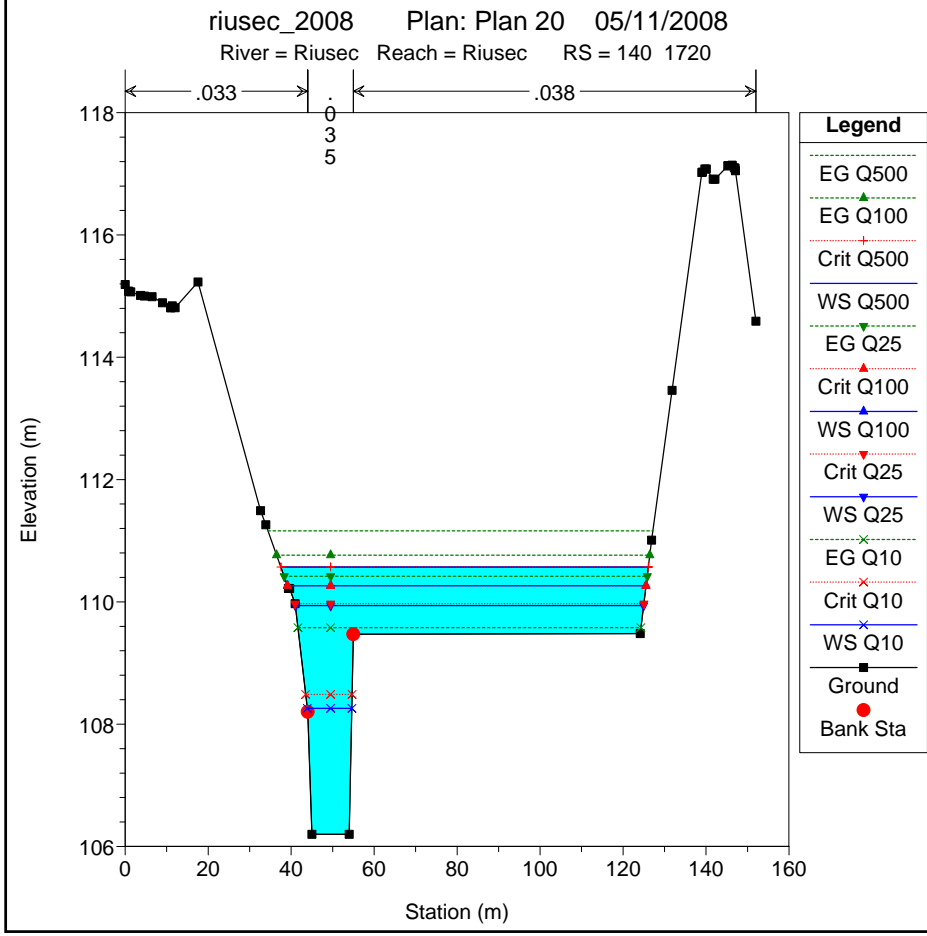
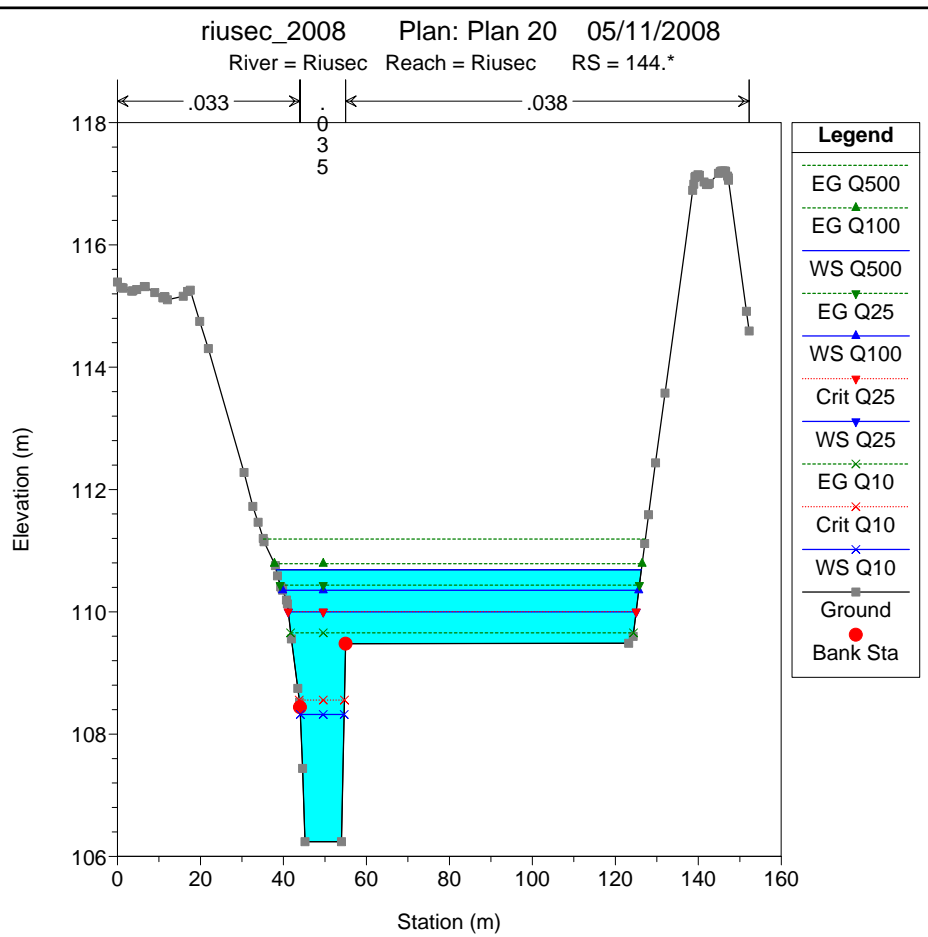
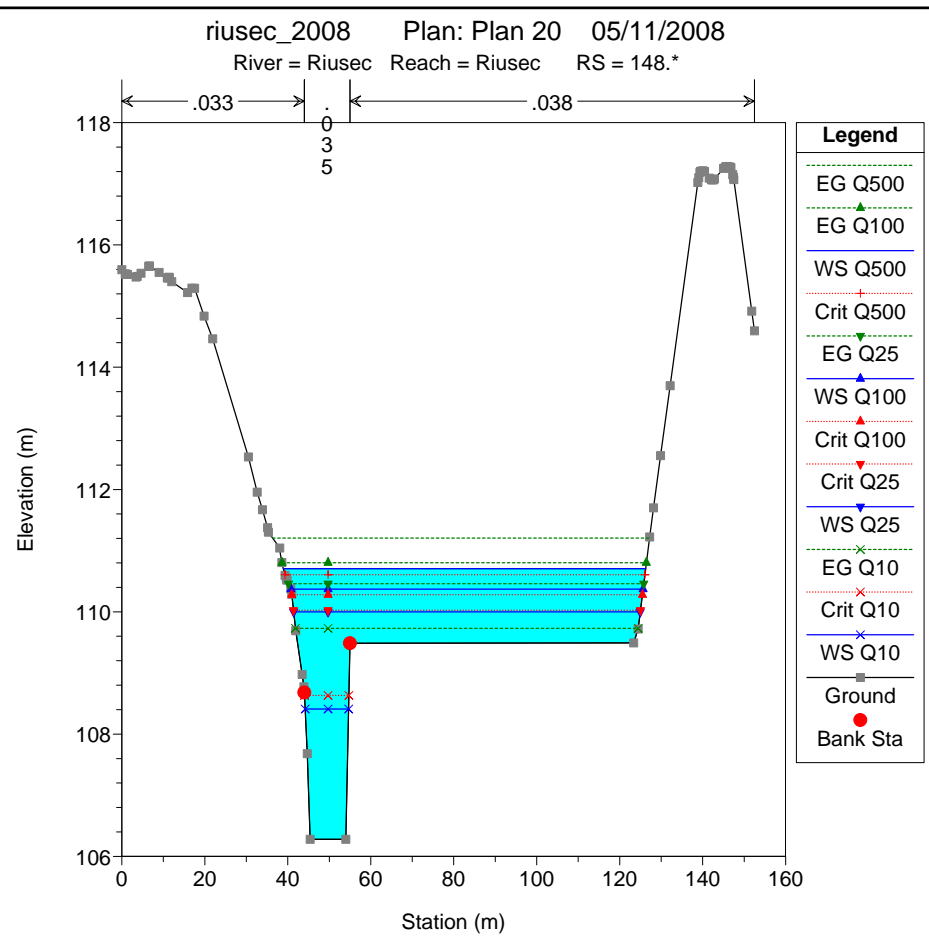
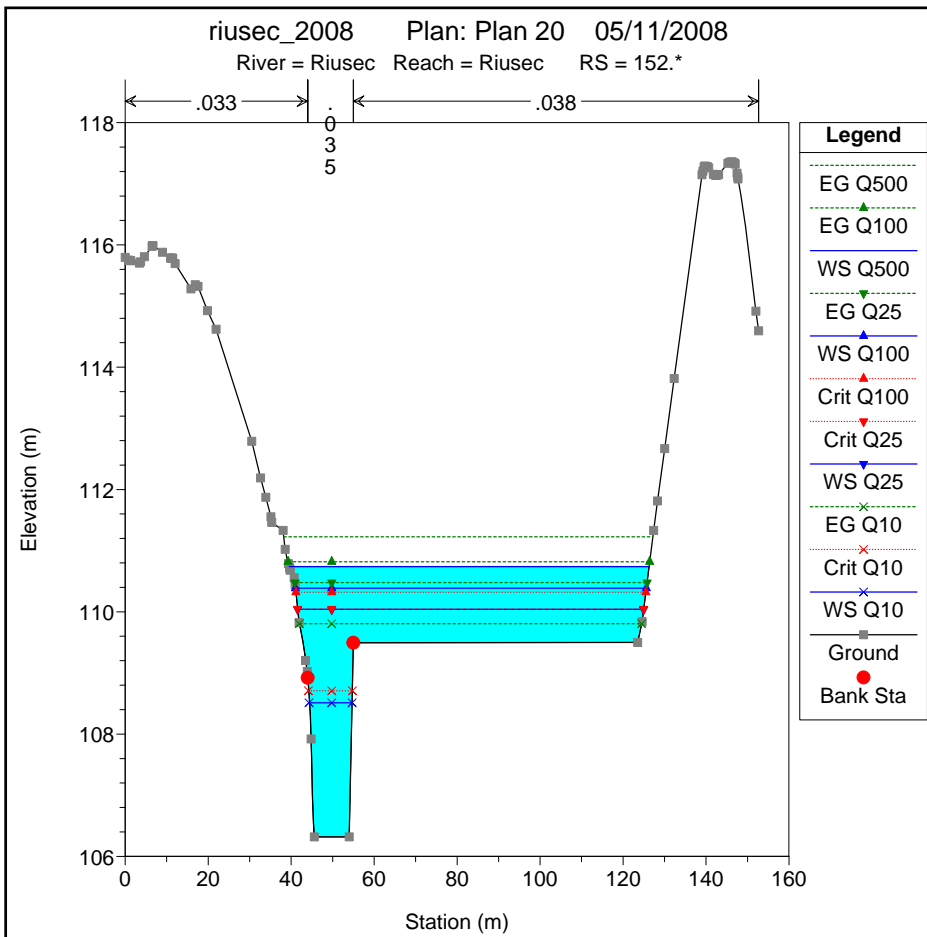


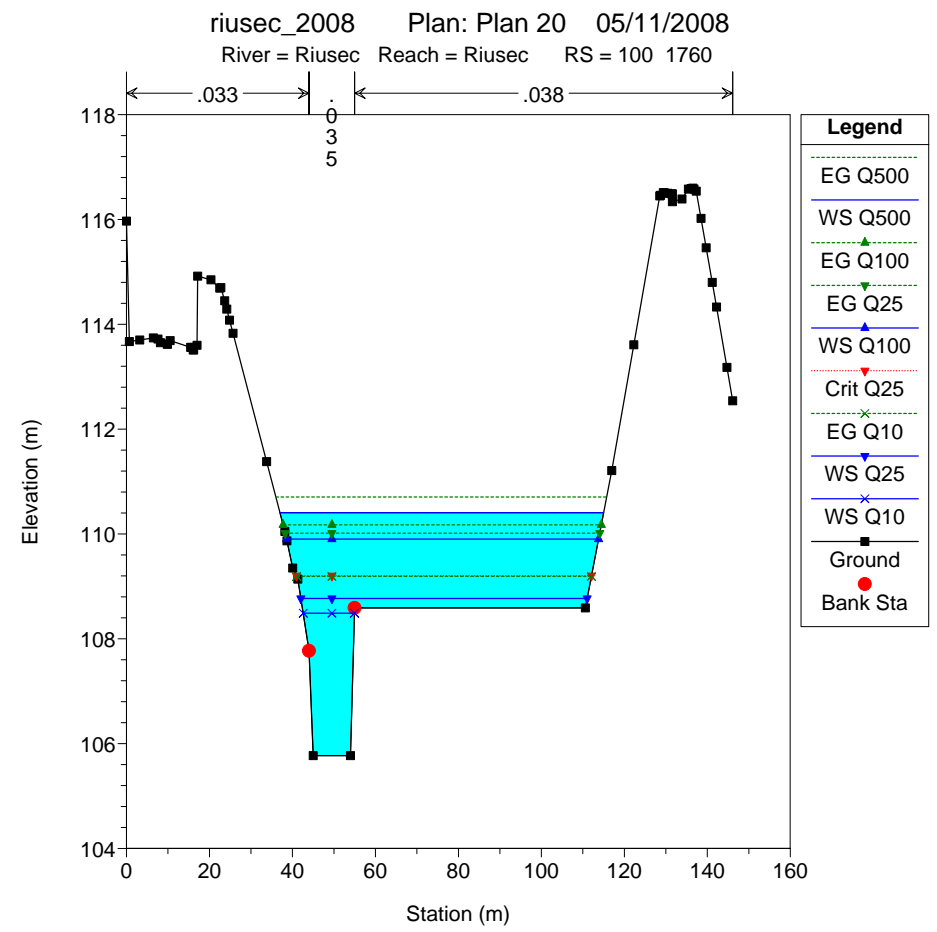
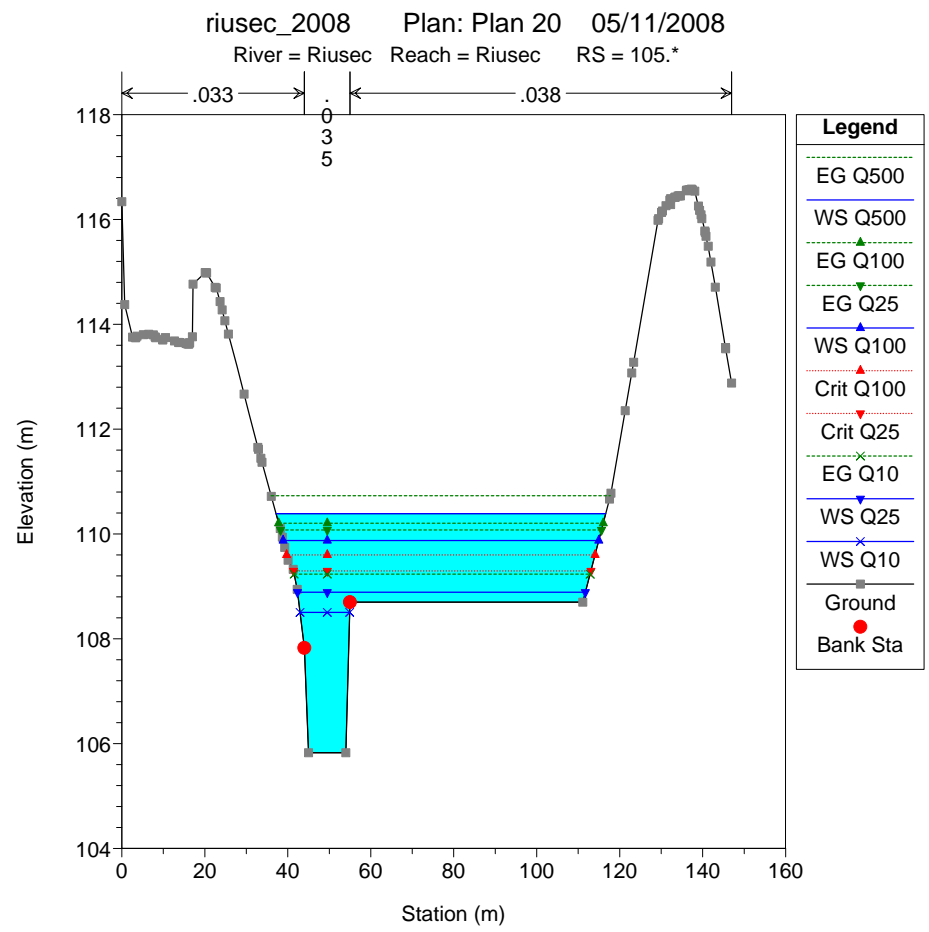
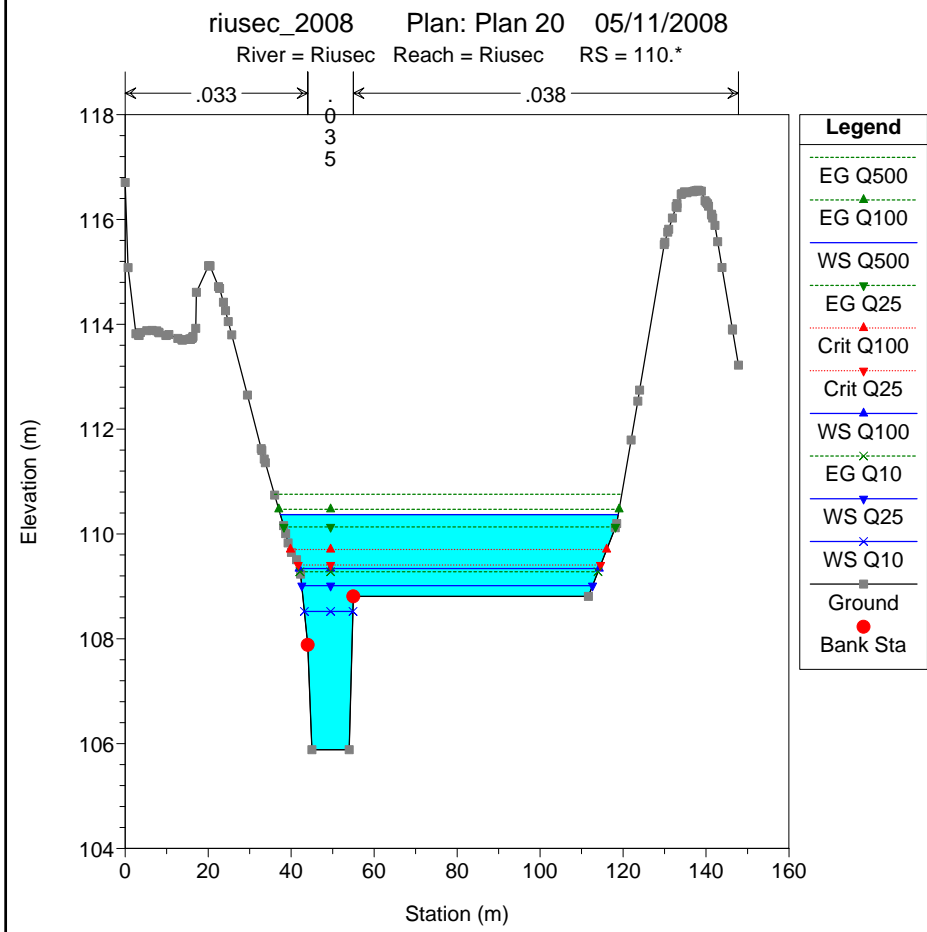
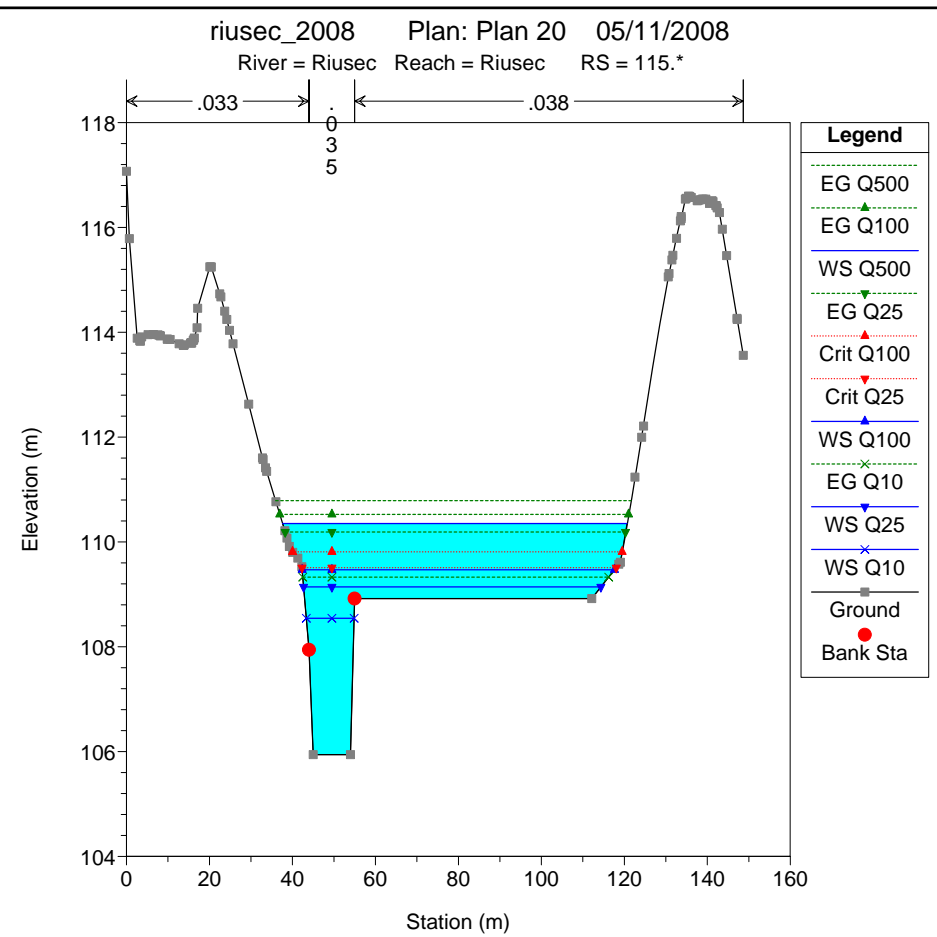
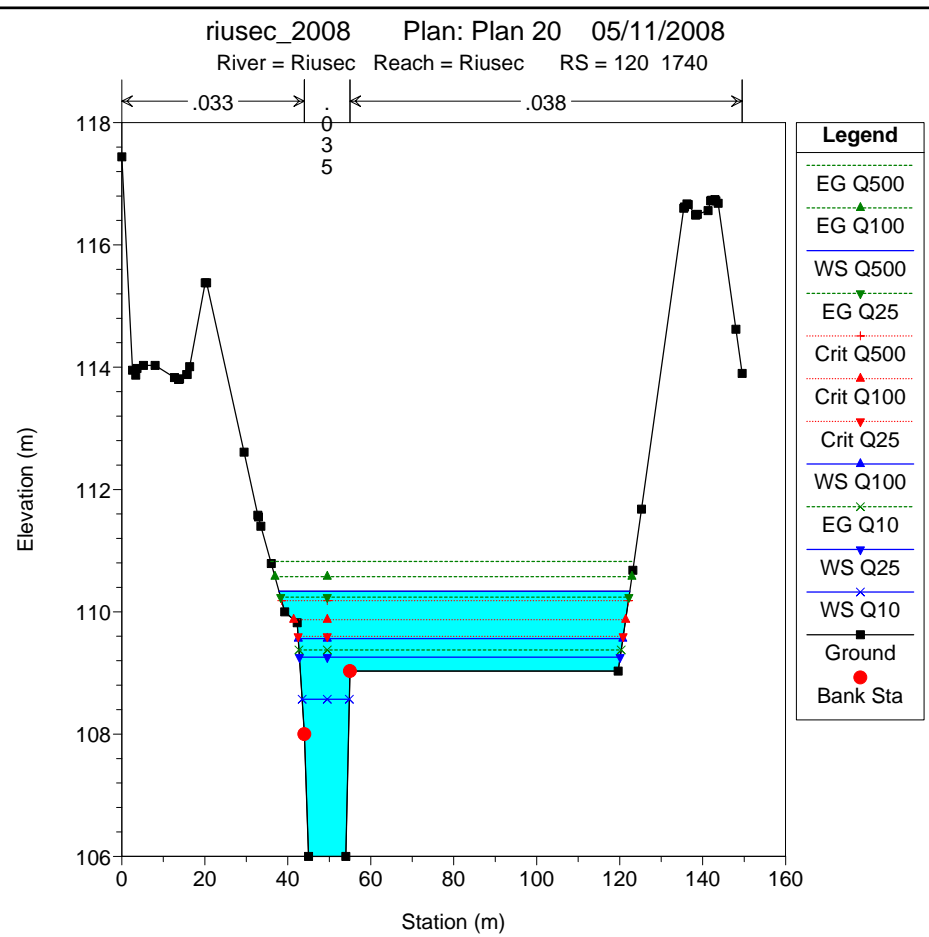
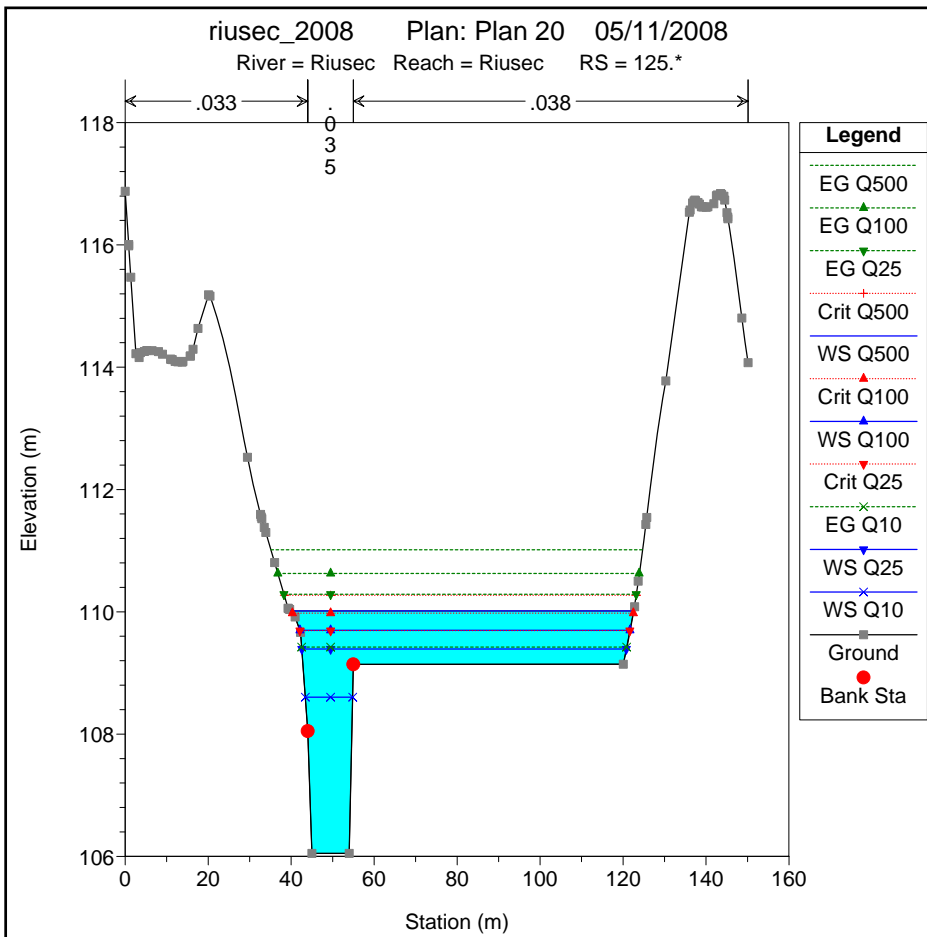


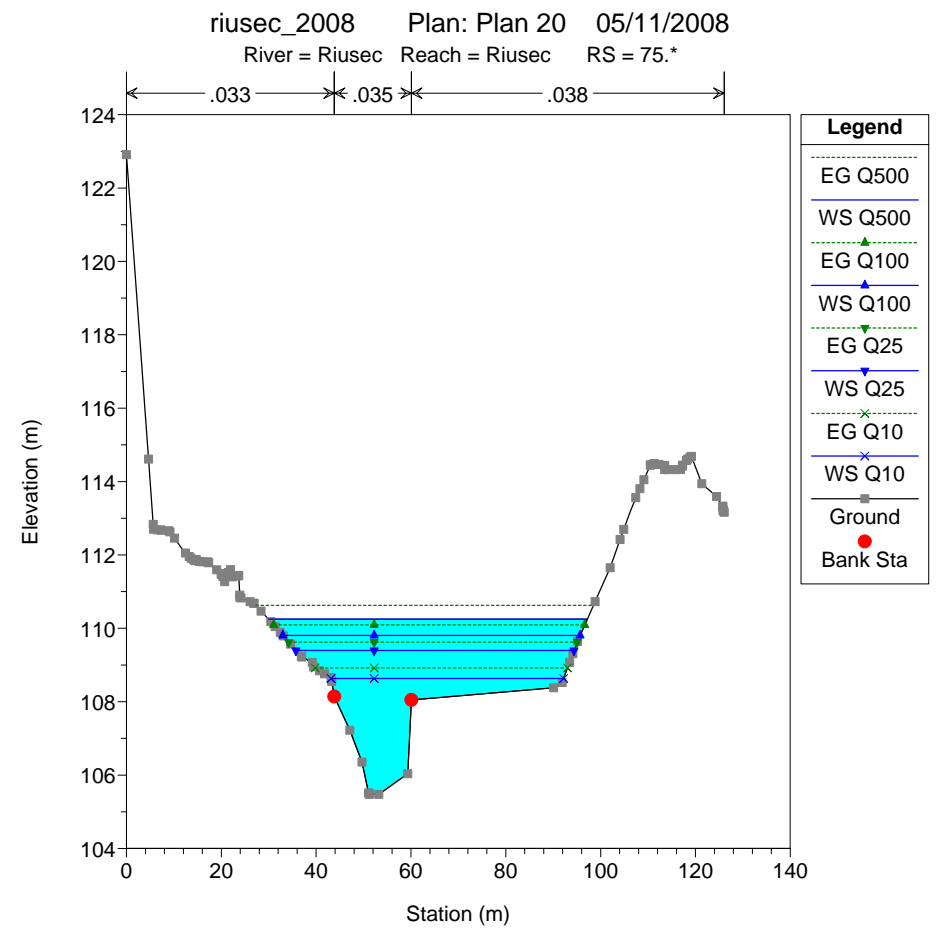
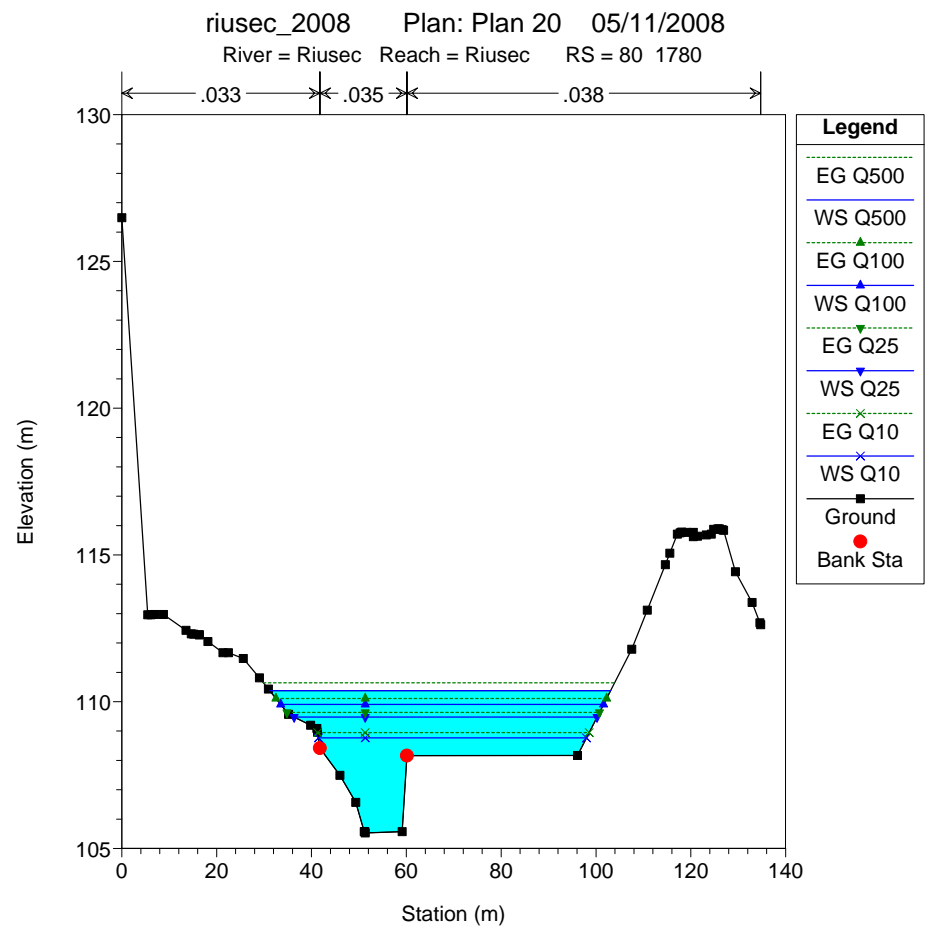
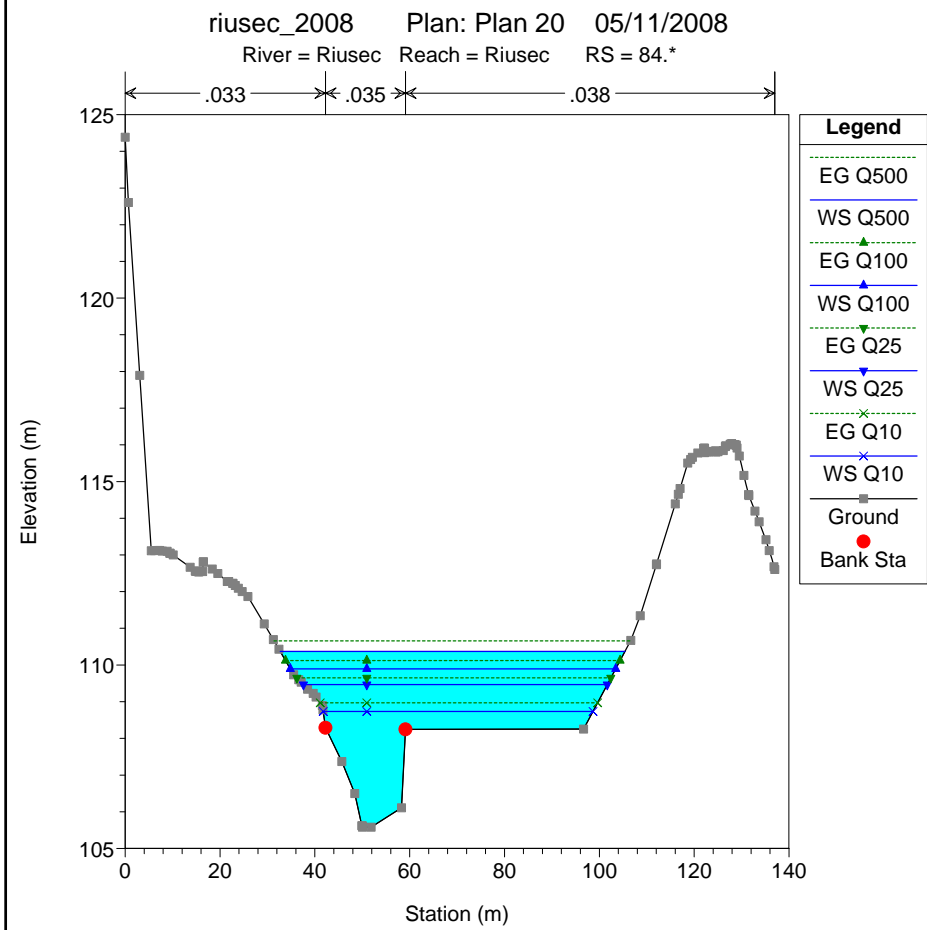
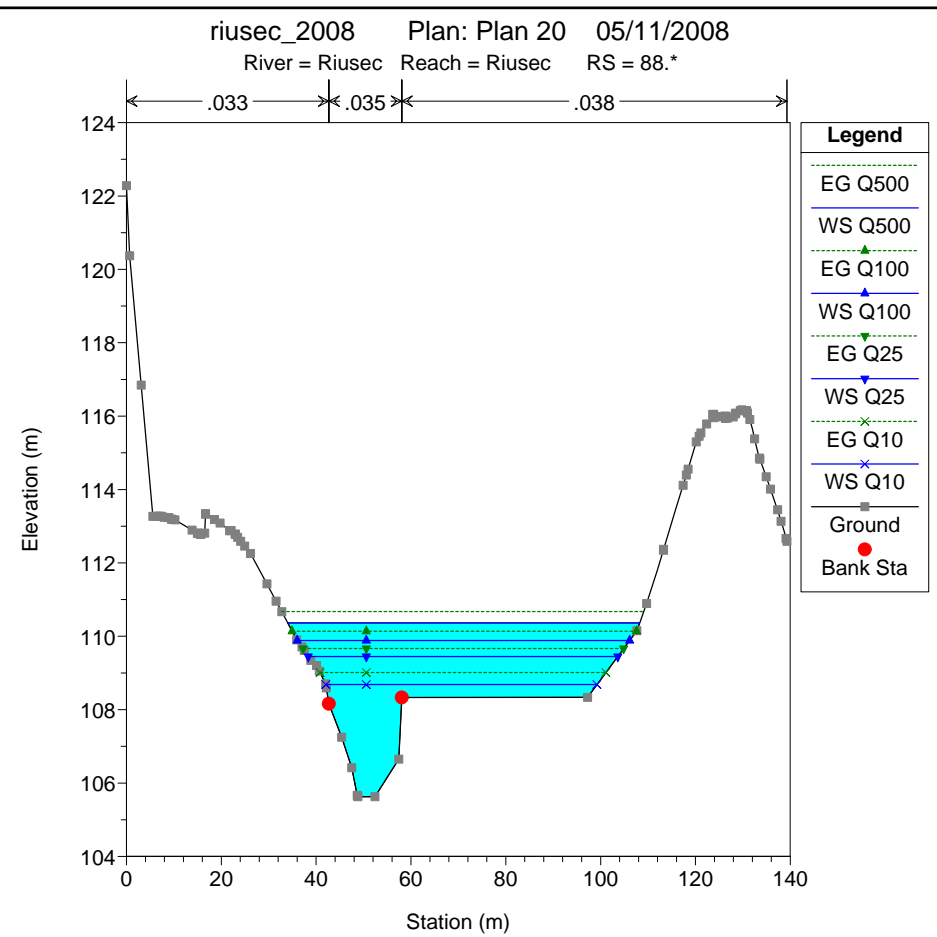
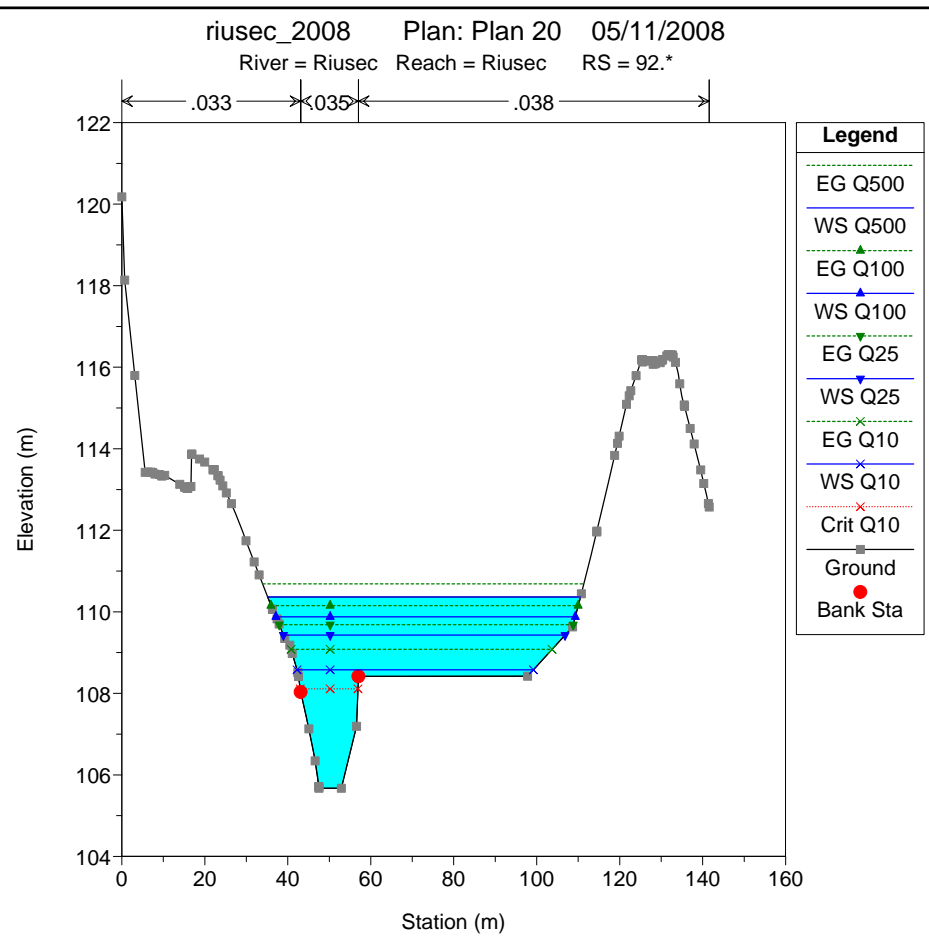
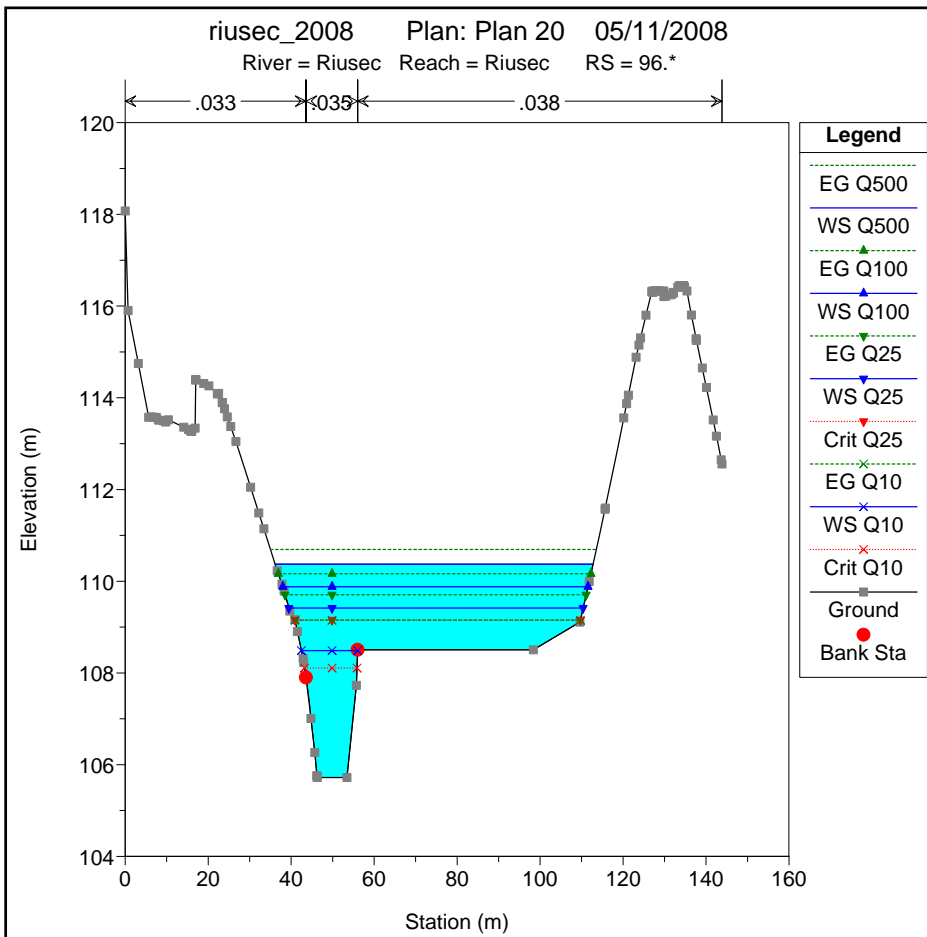


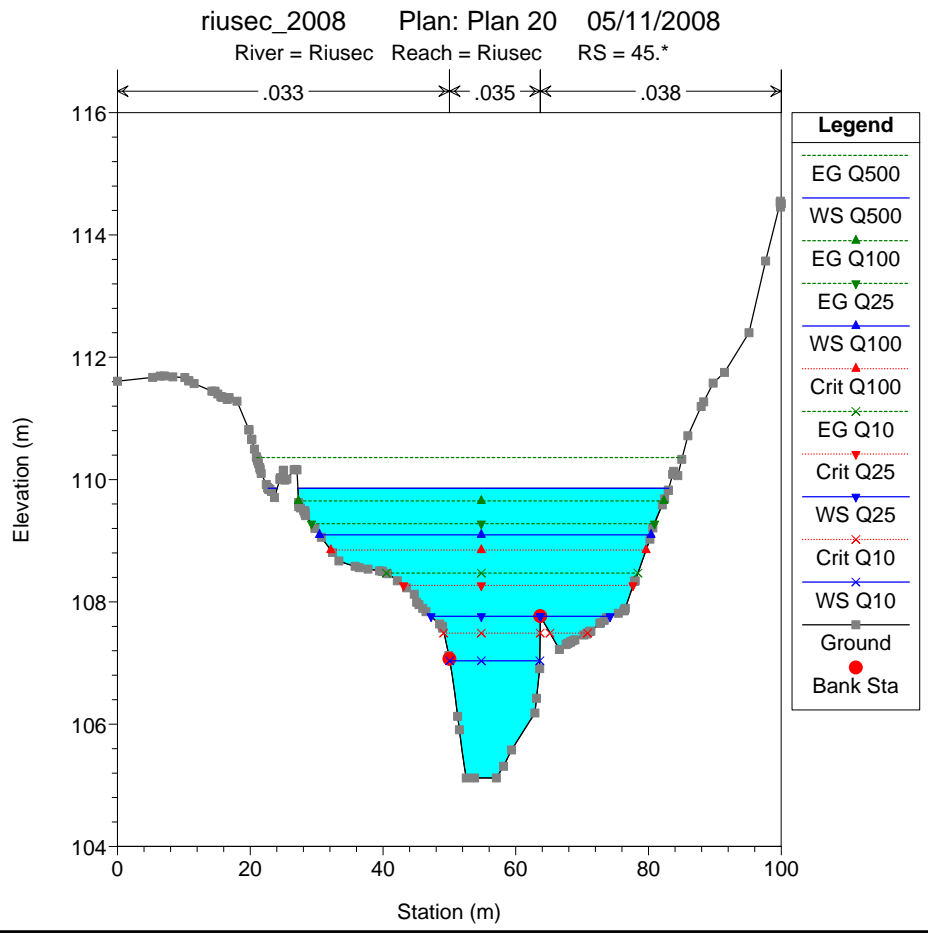
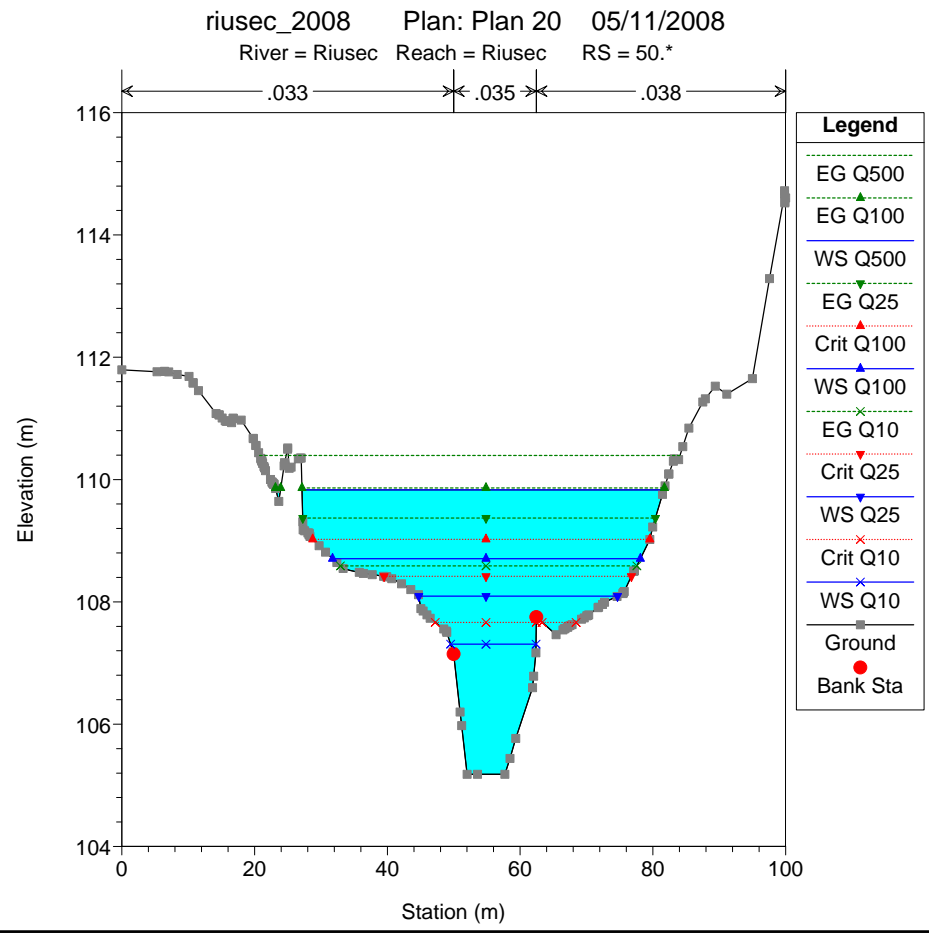
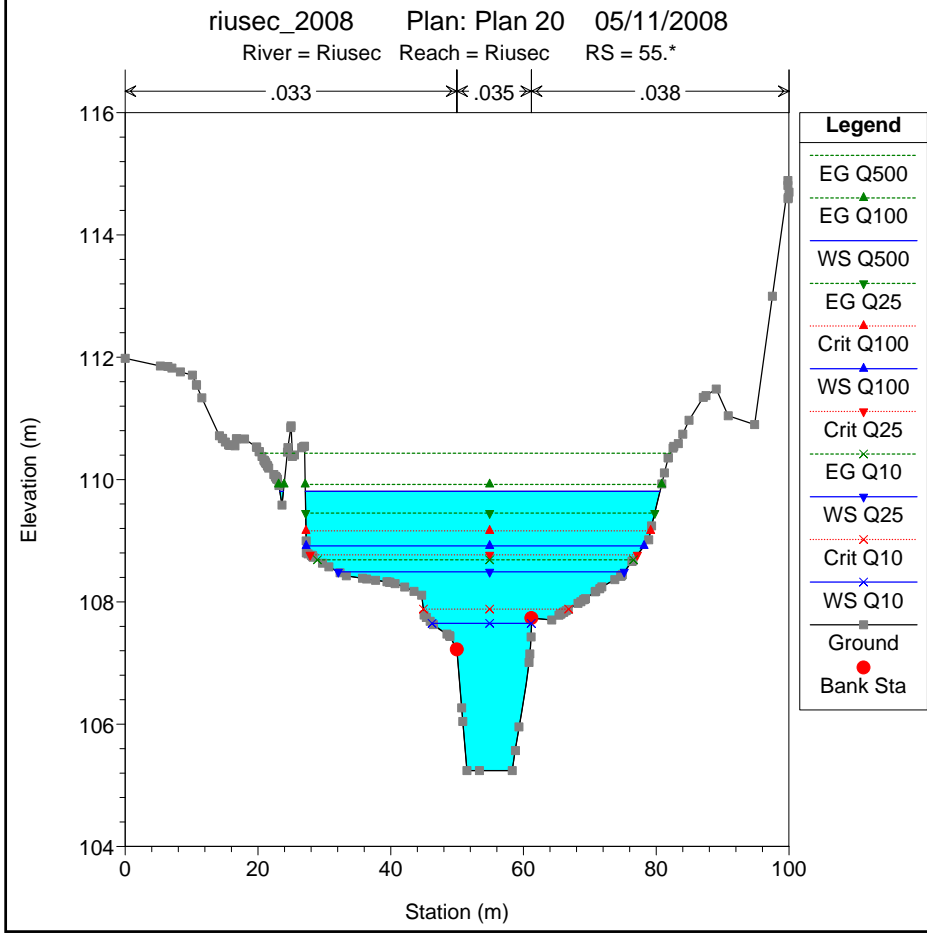
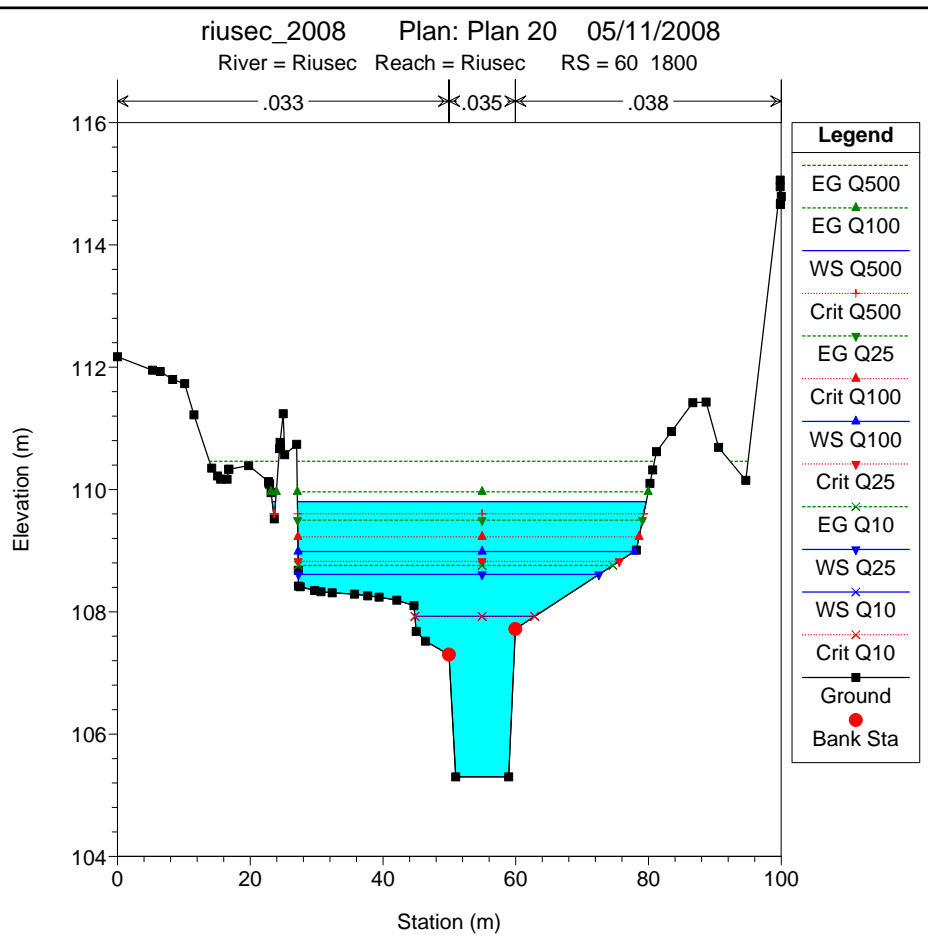
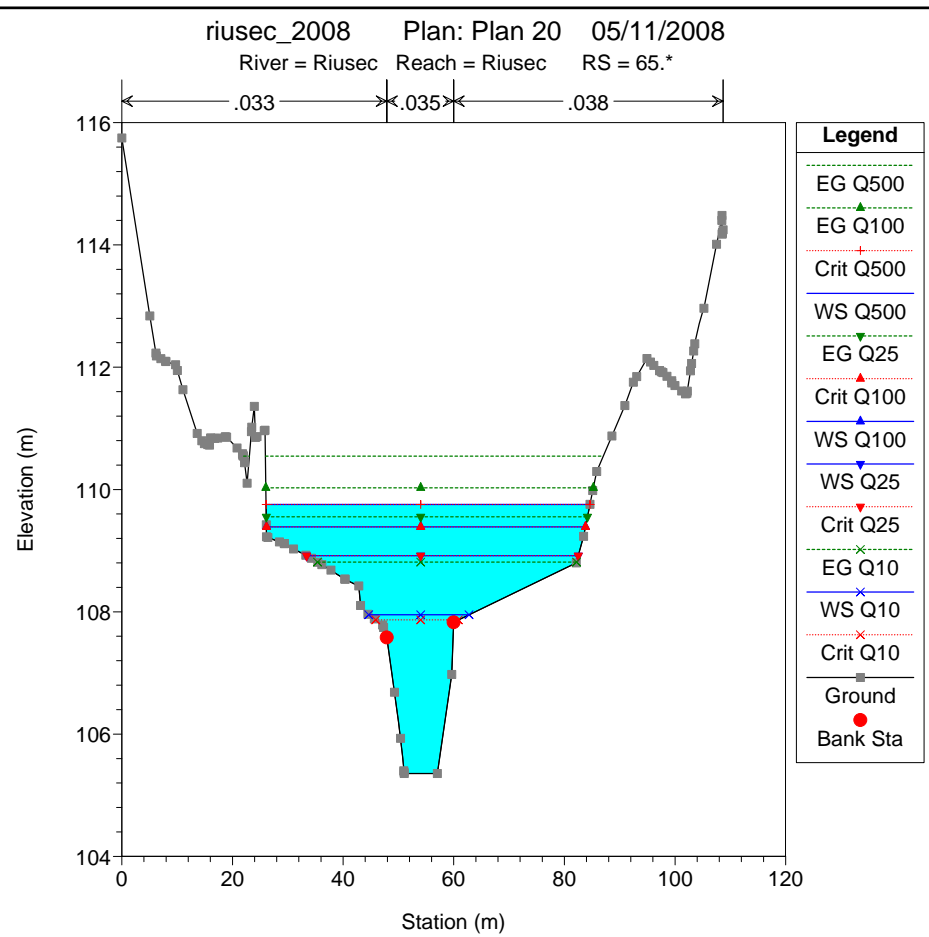
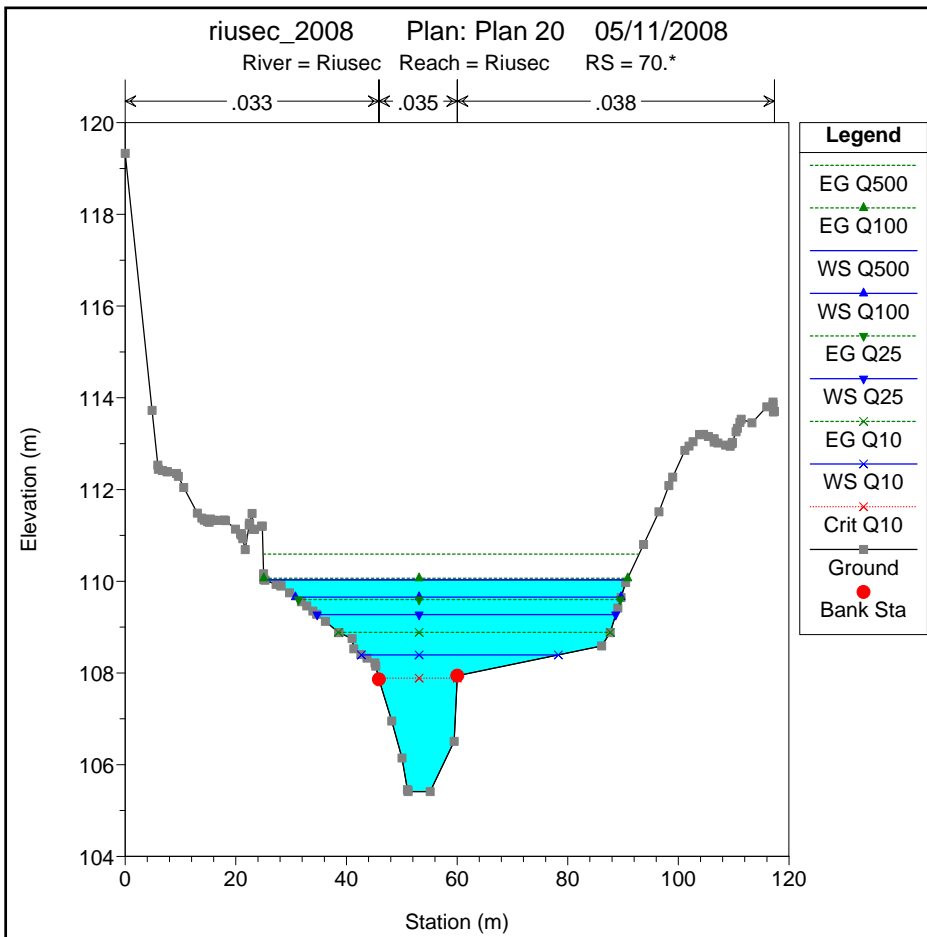


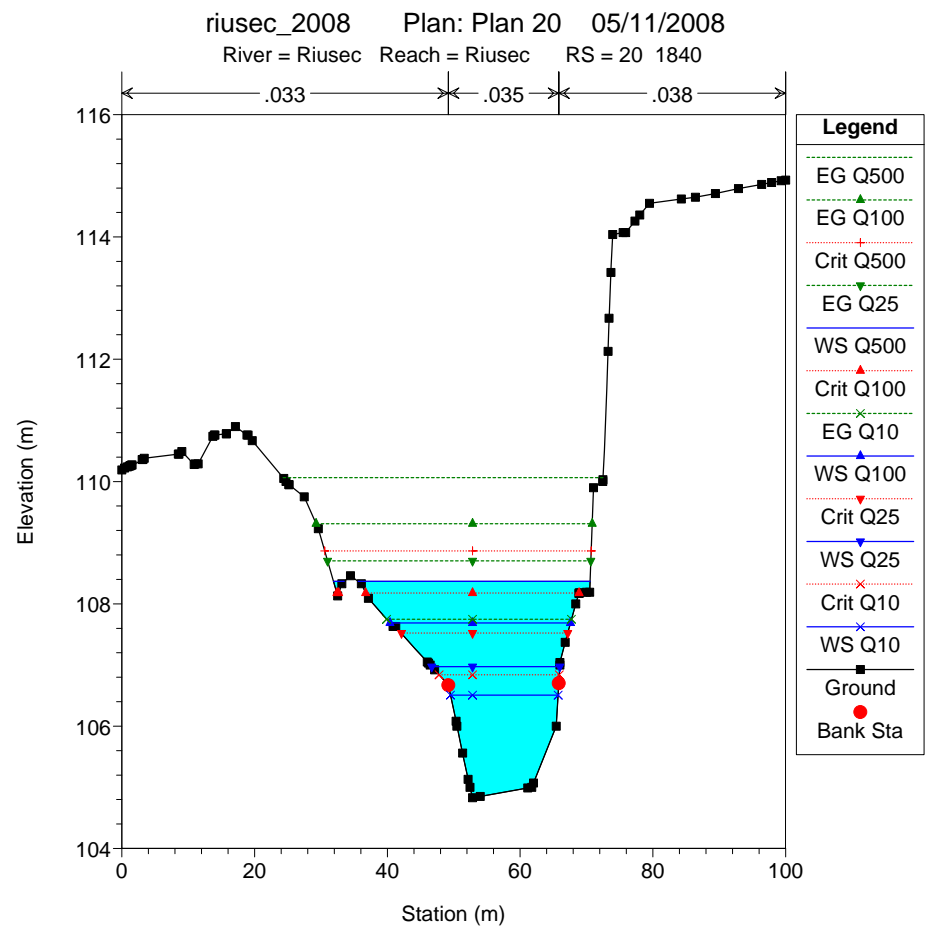
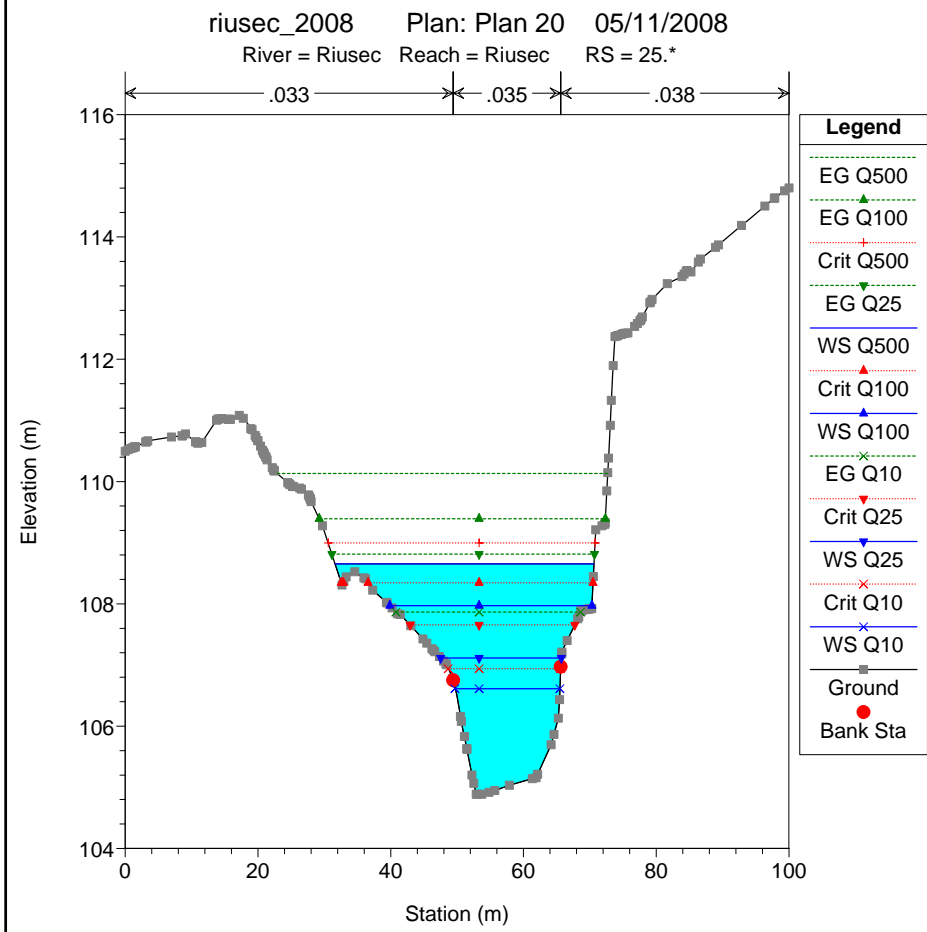
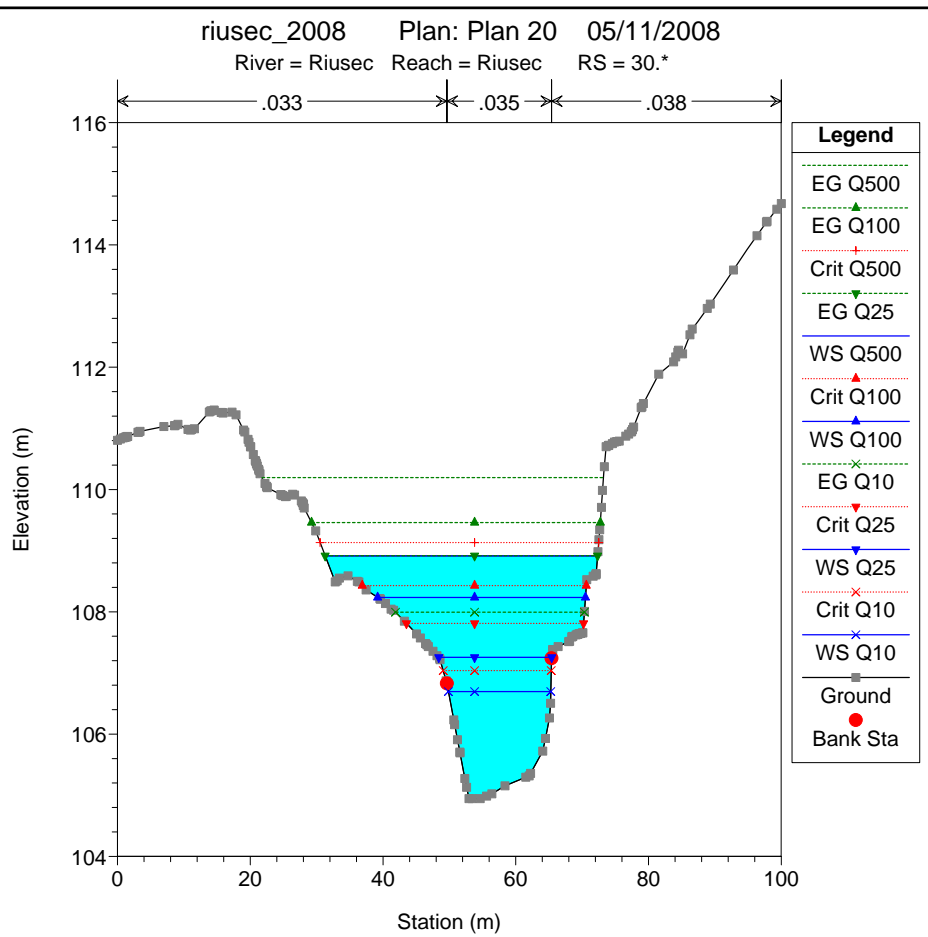
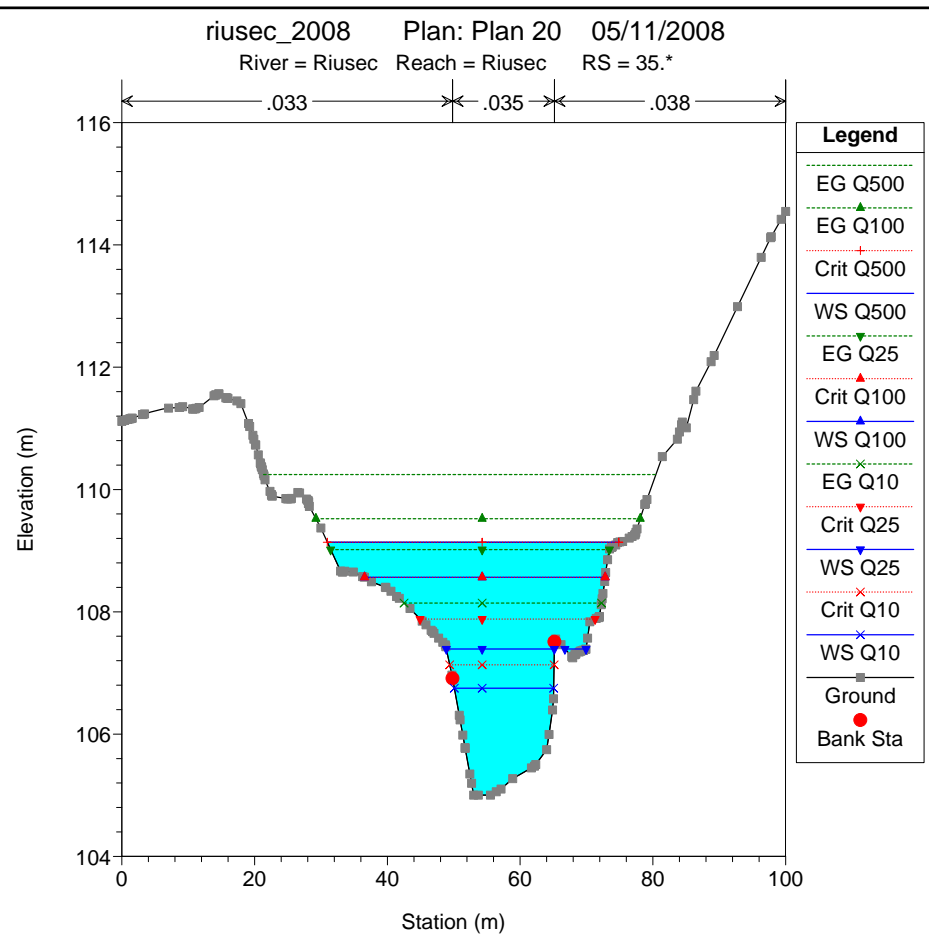
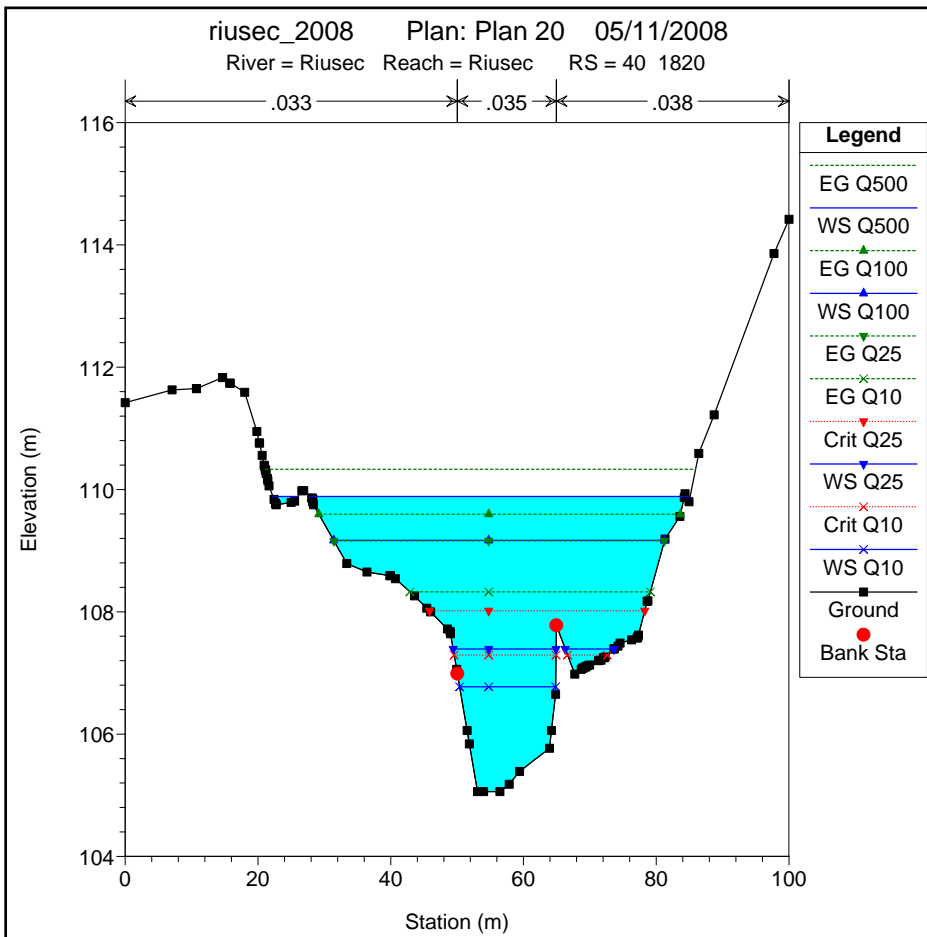












HEC-RAS Plan: Plan 16 River: Riusec Reach: Riusec Profile: Q10

Reach	River Sta	Profile	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude #	Chl
Riusec	1840 20	Q10	61.00	123.00	124.77	124.08	124.93	0.000893	1.82	33.62	20.73	0.45	
Riusec	1820 40	Q10	61.00	122.82	124.55	124.23	124.89	0.002414	2.59	23.56	17.64	0.71	
Riusec	1800 60	Q10	61.00	122.52	123.62	123.90	124.61	0.004788	3.34	18.40	16.68	1.00	
Riusec	1780 80	Q10	61.00	122.26	123.74	123.77	124.36	0.005313	3.50	17.43	17.27	1.58	
Riusec	1760 100	Q10	61.00	122.26	123.74	123.77	124.36	0.005313	3.50	17.43	14.95	1.03	
Riusec	1740 120	Q10	61.00	122.10	123.31	123.55	124.20	0.009594	4.16	14.65	17.44	1.36	
Riusec	1730.550	Q10	61.00	121.92	122.39	122.78	123.84	0.053385	6.33	12.33	27.40	2.95	
Riusec	1715	Bridge											
Riusec	1695.516	Q10	61.00	121.68	122.92	122.51	123.03	0.001105	1.50	41.46	54.12	0.48	
Riusec	1680 220	Q10	62.90	120.71	122.26	122.27	122.80	0.004688	3.24	19.63	19.54	1.00	
Riusec	1620 240	Q10	62.90	120.39	122.14	121.52	122.31	0.001042	1.84	34.19	23.33	0.49	
Riusec	1600 260	Q10	62.90	120.06	122.13	122.13	122.29	0.000798	1.73	36.45	21.96	0.42	
Riusec	1580 280	Q10	62.90	119.74	121.98	121.98	122.25	0.001298	2.34	27.96	15.90	0.53	
Riusec	1560 300	Q10	62.90	119.50	121.30	121.30	122.15	0.005668	4.08	15.41	9.11	1.00	
Riusec	1540 320	Q10	62.90	119.26	120.56	120.95	121.94	0.012411	5.20	12.09	10.18	1.52	
Riusec	1520 340	Q10	62.90	119.01	120.36	120.73	121.68	0.011392	5.10	12.34	10.03	1.47	
Riusec	1500 360	Q10	62.90	118.77	120.04	120.44	121.43	0.012729	5.23	12.02	10.19	1.54	
Riusec	1480 380	Q10	62.90	118.63	120.41	120.41	121.21	0.005270	3.96	15.90	9.99	1.00	
Riusec	1460 400	Q10	62.90	118.50	119.65	120.05	120.99	0.014871	5.12	12.29	12.95	1.68	
Riusec	1440 420	Q10	62.90	118.36	120.21	119.99	120.75	0.003285	3.26	19.29	11.88	0.82	
Riusec	1420 440	Q10	62.90	118.23	120.27	120.27	120.65	0.001978	2.71	23.23	12.91	0.64	
Riusec	1400 460	Q10	62.90	118.09	120.16	120.16	120.60	0.002363	2.94	21.36	11.35	0.68	
Riusec	1380 480	Q10	62.90	117.96	119.71	119.71	120.50	0.005209	3.92	16.05	10.30	1.00	
Riusec	1360 500	Q10	62.90	117.82	119.81	119.29	120.16	0.001861	2.64	23.86	13.18	0.62	
Riusec	1340 520	Q10	62.90	117.55	119.29	119.29	120.06	0.005111	3.88	16.19	10.58	1.00	
Riusec	1300 560	Q10	62.90	117.00	118.32	118.71	119.70	0.012253	5.21	12.07	9.93	1.51	
Riusec	1280 580	Q10	62.90	116.75	118.24	118.52	119.43	0.009410	4.83	13.01	9.50	1.32	
Riusec	1260 600	Q10	62.90	116.50	117.80	118.20	119.19	0.012526	5.23	12.02	9.95	1.52	
Riusec	1240 620	Q10	62.90	116.25	117.33	117.81	118.89	0.016727	5.53	11.38	11.33	1.76	
Riusec	1220 640	Q10	62.90	116.00	117.04	117.50	118.51	0.017951	5.37	11.71	13.20	1.82	
Riusec	1200 660	Q10	62.90	115.76	118.00	117.23	116.21	0.000986	2.01	31.36	16.95	0.47	
Riusec	1180 680	Q10	62.90	115.51	117.39	117.29	118.11	0.005381	4.01	15.70	9.64	1.00	
Riusec	1160 700	Q10	62.90	115.38	117.34	117.12	117.96	0.003669	3.50	18.00	10.12	0.84	
Riusec	1140 720	Q10	62.90	115.25	117.03	117.03	117.85	0.005384	4.01	15.70	9.61	1.00	
Riusec	1120 740	Q10	62.90	115.11	117.38	116.56	117.63	0.001201	2.25	27.99	13.78	0.50	
Riusec	1100 760	Q10	62.90	114.98	117.02	117.02	117.57	0.003100	3.28	19.16	10.81	0.79	
Riusec	1080 780	Q10	62.90	114.85	117.05	116.58	117.48	0.002226	2.90	21.69	11.72	0.68	
Riusec	1063.481 806.519	Q10	62.90	114.70	116.50	116.35	117.35	0.005669	4.08	15.41	9.14	1.00	
Riusec	1040 820	Q10	62.90	114.56	116.13	116.35	117.23	0.008256	4.64	13.56	9.22	1.22	
Riusec	1020 840	Q10	62.90	114.41	115.97	116.19	117.06	0.008203	4.62	13.60	9.39	1.23	
Riusec	1000 860	Q10	62.90	114.26	116.06	116.06	116.91	0.005642	4.08	15.43	9.16	1.00	
Riusec	980 880	Q10	62.90	114.12	115.81	115.92	116.77	0.006753	4.34	14.51	9.14	1.10	
Riusec	960 900	Q10	62.90	113.97	115.09	115.52	116.53	0.014707	5.31	11.84	11.21	1.65	
Riusec	940 920	Q10	62.90	113.75	114.89	115.28	116.22	0.013343	5.10	12.34	11.66	1.58	
Riusec	920 940	Q10	62.90	113.53	114.89	115.11	115.92	0.008509	4.48	14.03	10.88	1.26	
Riusec	900 960	Q10	62.90	113.31	114.99	114.99	115.79	0.004704	3.99	16.21	10.35	1.00	
Riusec	880 980	Q10	62.90	113.09	114.25	114.64	115.59	0.013352	5.13	12.26	11.35	1.58	
Riusec	860 1000	Q10	62.90	112.87	115.00	114.39	115.34	0.001708	2.57	24.46	12.76	0.59	
Riusec	840 1020	Q10	62.90	112.68	115.07	114.09	115.27	0.000850	1.97	32.01	15.05	0.43	
Riusec	820 1040	Q10	62.90	112.48	115.06	115.06	115.25	0.000762	1.95	32.25	14.28	0.41	
Riusec	800 1060	Q10	62.90	112.30	114.97	114.97	115.23	0.000982	2.25	37.96	16.08	0.47	
Riusec	780 1080	Q10	62.90	112.20	115.02	115.02	115.19	0.000580	1.83	46.86	18.45	0.37	
Riusec	760 1100	Q10	62.90	112.10	114.13	114.13	115.08	0.005344	4.33	19.73	10.43	1.00	
Riusec	740 1120	Q10	62.90	112.00	112.91	113.46	114.80	0.023393	6.09	14.03	15.72	2.06	
Riusec	720 1140	Q10	62.90	111.80	112.71	113.17	114.28	0.019244	5.55	15.38	17.25	1.88	
Riusec	700 1160	Q10	62.90	111.60	113.69	112.98	113.95	0.001172	2.24	38.17	19.73	0.51	
Riusec	680 1180	Q10	62.90	111.39	113.71	113.91	113.86	0.000794	1.99	43.01	19.48	0.43	
Riusec	654.4750 1205.525	Q10	62.90	111.19	113.43	113.43	113.86	0.002131	2.89	29.56	16.07	0.68	
Riusec	640 1220	Q10	62.90	110.99	113.44	113.44	113.82	0.001679	2.73	31.32	15.40	0.61	
Riusec	620 1240	Q10	62.90	110.74	113.16	112.79	113.75	0.002773	3.41	25.02	12.22	0.76	
Riusec	600 1260	Q10	62.90	110.49	112.66	112.66	113.64	0.005197	4.39	19.48	10.03	1.00	
Riusec	580 1280	Q10	62.90	110.25	111.87	112.29	113.44	0.011146	5.54	15.40	10.03	1.43	
Riusec	560 1300	Q10	62.90	110.00	111.58	112.03	113.20	0.011765	5.64	15.14	10.17	1.48	
Riusec	540 1320	Q10	62.90	109.77	111.33	111.80	112.96	0.011935	5.66	15.09	10.32	1.49	
Riusec	520 1340	Q10	62.90	109.54	111.37	111.57	112.71	0.010947	5.51	15.50	10.08	1.42	
Riusec	500 1360	Q10	62.90	109.31	110.89	111.33	112.48	0.011482	5.59	15.28	10.31	1.46	
Riusec	480 1380	Q10	62.90	109.07	110.65	111.09	112.25	0.011551	5.60	15.25	10.29	1.47	
Riusec	473.5938 1386.4062	Q10	62.90	109.00	111.53	111.04	112.14	0.002707	3.44	24.82	10.79	0.72	
Riusec	451	Bridge											
Riusec	429.7419 1430.2581	Q10	62.90	108.69	111.52	110.74	111.99	0.001974	3.06	27.87	10.72	0.61	
Riusec	400 1440	Q10	62.90	108.53	110.96	110.74	111.80	0.004263	4.08	20.95	9.28	0.87	
Riusec	400 1460	Q10	102.20	108.37	110.64	110.64	111.69	0.005060	4.53	22.63	11.17	1.00	
Riusec	380 1480	Q10	102.20	108.21	110.30	110.48	111.55	0.006731	4.96	20.61	10.76	1.14	
Riusec	360 1500	Q10	102.20	108.05	110.09	110.31	111.40	0.007279	5.08	20.10	10.72	1.18	
Riusec	340 1520	Q10	102.90	107.89	109.93	110.16	111.26	0.007319	5.10	20.16	10.76	1.19	
Riusec	320 1540	Q10	102.90	107.76	109.91	110.06	111.08	0.006442	4.78	21.52	11.80	1.12	
Riusec	300 1560	Q10	102.90	107.64	109.37	109.79	110.88	0.010049	5.45	18.88	12.82	1.43	
Riusec	280 1580	Q10	102.90	107.31	110.38	109.21	110.67	0.000983	2.37	43.37	16.84	0.47	
Riusec	260 1600	Q10	102.90	107.25	109.55	109.55	110.56	0.004783	4.45	23.47	13.46	0.98	
Riusec	240 1620	Q10	102.90	107.13	109.08	109.36	110.40	0.007651	5.11	20.15	11.71	1.24	
Riusec	220 1640	Q10	102.90	107.00	109.54	109.25	110.26	0.003103	3.75	27.60	13.61	0.81	
Riusec	200 1660	Q10	102.90	106.80	109.52	109.13	110.18	0.002828	3.61	28.73	13.59	0.76	
Riusec	180 1680	Q10	102.90	106.60	109.64	108.80	110.07	0.001643	2.92	35.22	14.51	0.60	
Riusec	160 1700	Q10	102.90	106.40	108.86	108.86	109.95	0.005296	4.62	22.27	10.26	1.00	
Riusec	140 1720	Q10	102.90	106.20	108.02	108.48	109.74	0.010784	5.82	17.69	10.46	1.43	
Riusec	120 1740	Q10	102.90	106.00	107.83	108.28	109.52						

HEC-RAS Plan: Plan 16 River: Riusec Reach: Riusec Profile: Q100

Reach	River Sta	Profile	Q Total (m ³ /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 ²)	Top Width (m)	Froude #	Chl
Riusec	1640 20	Q100	165.00	123.00	126.16	125.00	126.52	0.000635	2.65	63.48	22.30	0.48	
Riusec	1620 40	Q100	165.00	122.82	125.86	125.31	126.47	0.001895	3.45	47.96	19.45	0.69	
Riusec	1800 60	Q100	165.00	122.52	125.31	125.31	126.37	0.003753	4.60	37.39	18.33	0.98	
Riusec	1780 80	Q100	165.00	122.40	124.40	124.91	126.19	0.008849	5.93	28.31	19.33	1.51	
Riusec	1760 100	Q100	165.00	122.28	124.91	124.91	125.97	0.004340	4.57	36.13	17.02	1.00	
Riusec	1740 120	Q100	165.00	122.10	124.63	124.63	125.79	0.009711	5.65	29.18	19.21	1.41	
Riusec	1730.550	Q100	165.00	121.92	122.85	123.56	125.42	0.003352	8.48	25.25	28.53	2.86	
Riusec	1715	Bridge											
Riusec	1695.516	Q100	165.00	121.68	124.29	123.13	124.43	0.000433	1.63	106.59	54.83	0.34	
Riusec	1680 220	Q100	165.00	120.71	123.93	123.23	124.32	0.001139	2.94	75.96	52.51	0.57	
Riusec	1620 240	Q100	166.70	120.39	124.07	124.24	124.24	0.000384	1.92	106.87	56.05	0.34	
Riusec	1600 260	Q100	166.70	120.06	123.99	124.23	124.23	0.000475	2.18	80.96	26.39	0.37	
Riusec	1580 280	Q100	166.70	119.74	123.70	124.19	124.19	0.001177	3.20	58.91	20.50	0.53	
Riusec	1560 300	Q100	166.70	119.50	122.80	122.80	124.07	0.004650	5.02	34.75	14.94	0.98	
Riusec	1540 320	Q100	166.70	119.26	121.71	122.33	123.84	0.011178	6.47	26.20	15.07	1.53	
Riusec	1520 340	Q100	166.70	119.01	121.51	122.12	123.62	0.010694	6.43	26.45	15.11	1.50	
Riusec	1500 360	Q100	166.70	118.77	121.19	121.84	123.39	0.011344	6.57	25.92	15.23	1.54	
Riusec	1480 380	Q100	166.70	118.63	121.84	121.84	123.01	0.004069	4.83	36.73	17.59	0.97	
Riusec	1460 400	Q100	166.70	118.50	120.64	122.77	122.53	0.002259	3.88	45.79	20.22	0.75	
Riusec	1440 420	Q100	166.70	118.36	121.77	121.34	122.44	0.001566	3.41	51.29	19.78	0.63	
Riusec	1420 440	Q100	166.70	118.23	121.85	122.44	122.44	0.001566	3.41	51.29	19.78	0.63	
Riusec	1400 460	Q100	166.70	118.09	121.67	121.12	122.99	0.002101	3.77	46.39	18.53	0.71	
Riusec	1380 480	Q100	166.70	117.96	121.10	121.10	122.29	0.004164	4.84	35.99	16.43	0.98	
Riusec	1360 500	Q100	166.70	117.82	121.39	120.59	121.94	0.001450	3.40	54.62	22.67	0.61	
Riusec	1340 520	Q100	166.70	117.55	120.68	120.68	121.83	0.003976	4.80	36.74	17.56	0.97	
Riusec	1300 560	Q100	166.70	117.00	119.56	120.13	121.52	0.006871	6.18	27.68	15.76	1.42	
Riusec	1280 580	Q100	166.70	116.75	119.54	119.98	121.29	0.007539	5.89	29.66	16.39	1.28	
Riusec	1260 600	Q100	166.70	116.50	119.01	119.63	121.09	0.010304	6.39	26.87	15.94	1.47	
Riusec	1240 620	Q100	166.70	116.25	118.33	119.09	120.79	0.016899	6.94	24.32	17.62	1.86	
Riusec	1220 640	Q100	166.70	116.00	119.74	118.64	120.10	0.000884	2.69	67.57	27.74	0.49	
Riusec	1200 660	Q100	166.70	115.76	119.78	118.64	120.06	0.006652	2.39	76.07	30.08	0.42	
Riusec	1180 680	Q100	166.70	115.51	118.76	118.76	119.81	0.004024	4.87	36.78	17.49	0.96	
Riusec	1160 700	Q100	166.70	115.38	118.26	118.58	119.81	0.006286	5.55	31.80	17.31	1.17	
Riusec	1140 720	Q100	166.70	115.25	118.52	118.51	119.67	0.004288	4.80	37.13	17.73	0.95	
Riusec	1120 740	Q100	166.70	115.11	118.97	118.41	119.41	0.001222	2.95	58.33	20.63	0.54	
Riusec	1100 760	Q100	166.70	114.98	118.69	118.69	119.36	0.002118	3.68	49.71	23.00	0.71	
Riusec	1080 780	Q100	166.70	114.85	118.66	119.31	119.31	0.001855	3.71	52.91	23.92	0.66	
Riusec	1063.481 806.519	Q100	166.70	114.70	118.03	118.03	119.19	0.003900	4.85	37.93	18.80	0.94	
Riusec	1040 820	Q100	166.70	114.56	117.51	117.86	119.08	0.006849	5.60	31.66	17.14	1.18	
Riusec	1020 840	Q100	166.70	114.41	117.23	116.92	117.90	0.002185	3.87	44.86	17.90	0.72	
Riusec	1000 860	Q100	166.70	114.26	118.07	117.62	118.77	0.002358	5.82	30.87	19.06	1.26	
Riusec	980 880	Q100	166.70	114.12	117.46	117.46	118.66	0.004067	4.90	36.62	17.60	0.95	
Riusec	960 900	Q100	166.70	113.97	116.23	116.88	118.43	0.012717	6.56	25.73	15.69	1.62	
Riusec	940 920	Q100	166.70	113.75	115.97	116.64	118.19	0.010742	6.61	25.54	12.87	1.50	
Riusec	920 940	Q100	166.70	113.53	117.14	116.57	117.90	0.002185	3.87	44.86	17.13	0.72	
Riusec	900 960	Q100	166.70	113.31	116.59	116.59	117.79	0.003956	4.92	36.40	16.12	0.98	
Riusec	880 980	Q100	166.70	113.09	115.37	116.13	117.57	0.010350	6.58	25.66	12.48	1.46	
Riusec	860 1000	Q100	166.70	112.87	115.05	115.88	117.35	0.011342	6.71	25.12	12.82	1.53	
Riusec	840 1020	Q100	166.70	112.66	115.62	115.30	117.00	0.000993	2.76	69.22	41.38	0.50	
Riusec	820 1040	Q100	166.70	112.48	116.65	116.96	116.96	0.000723	2.66	85.72	42.43	0.43	
Riusec	800 1060	Q100	210.30	112.30	116.58	116.94	0.000826	2.86	97.63	46.06	0.46		
Riusec	780 1080	Q100	210.30	112.20	116.63	116.90	0.000536	2.42	112.44	47.07	0.38		
Riusec	760 1100	Q100	210.30	112.10	116.00	116.00	116.83	0.002384	4.39	70.49	46.40	0.73	
Riusec	740 1120	Q100	210.30	112.00	113.84	114.64	116.54	0.014758	7.29	28.86	16.21	1.74	
Riusec	720 1140	Q100	210.30	111.90	113.46	114.28	116.22	0.016520	7.36	28.56	17.69	1.85	
Riusec	700 1160	Q100	210.30	111.80	113.25	114.02	115.85	0.016069	7.15	29.42	19.47	1.86	
Riusec	680 1180	Q100	210.30	111.70	113.96	113.78	115.39	0.0101016	2.98	82.60	41.83	0.51	
Riusec	654.4750 1205.525	Q100	210.30	111.19	114.54	115.32	0.002334	4.08	64.35	39.40	0.76		
Riusec	640 1220	Q100	210.30	110.99	114.63	115.24	0.001689	3.70	74.43	39.15	0.66		
Riusec	620 1240	Q100	210.30	110.74	114.24	115.17	0.002674	4.61	62.58	36.71	0.83		
Riusec	600 1260	Q100	210.30	110.49	114.23	114.23	115.09	0.002735	4.62	67.40	38.48	0.79	
Riusec	580 1280	Q100	210.30	110.25	113.56	113.97	114.97	0.005343	5.58	50.74	37.86	1.02	
Riusec	560 1300	Q100	210.30	110.00	113.29	113.77	114.84	0.005664	5.74	47.16	37.15	1.06	
Riusec	540 1320	Q100	210.30	109.77	113.08	113.58	114.72	0.005208	5.84	44.83	35.55	1.06	
Riusec	520 1340	Q100	210.30	109.54	112.88	113.43	114.60	0.005952	5.94	42.74	34.77	1.08	
Riusec	500 1360	Q100	210.30	109.31	113.68	113.26	114.19	0.001313	3.54	93.40	59.04	0.56	
Riusec	480 1380	Q100	210.30	109.07	113.79	113.68	114.12	0.000845	2.98	122.78	82.25	0.45	
Riusec	473.5938 1386.4062	Q100	210.30	109.00	113.60	113.05	114.09	0.001256	3.47	89.42	81.55	0.53	
Riusec	451	Bridge											
Riusec	429.7419 1430.2581	Q100	210.30	108.69	113.39	112.84	113.72	0.000972	3.00	113.25	69.23	0.46	
Riusec	420 1440	Q100	210.30	108.53	112.85	112.85	113.57	0.002293	4.20	78.00	57.51	0.67	
Riusec	400 1460	Q100	241.50	108.37	112.49	112.57	113.49	0.002617	4.78	72.17	44.51	0.77	
Riusec	380 1480	Q100	241.50	108.21	111.97	112.32	113.38	0.003983	5.56	58.31	38.66	0.94	
Riusec	360 1500	Q100	241.50	108.05	111.57	112.10	113.27	0.005087	6.04	52.78	37.75	1.06	
Riusec	340 1520	Q100	242.90	107.89	111.23	111.86	113.13	0.006069	6.40	50.80	42.43	1.16	
Riusec	320 1540	Q100	242.90	107.76	110.85	111.54	112.97	0.007758	6.77	48.68	46.87	1.30	
Riusec	300 1560	Q100	242.90	107.64	110.38	111.15	112.78	0.009540	7.04	43.54	46.32	1.47	
Riusec	280 1580	Q100	242.90	107.31	109.72	110.98	112.52	0.012044	7.42	32.76	15.42	1.62	
Riusec	260 1600	Q100	242.90	107.25	110.35	110.89	112.01	0.006283	6.26	60.48	58.70	1.17	
Riusec	240 1620	Q100	242.90	107.13	110.21	110.75	111.89	0.006066	6.18	59.37	60.68	1.18	
Riusec	220 1640	Q100	242.90	107.00	110.14	110.66	111.74	0.005790	6.00	60.68	63.74	1.15	
Riusec	200 1660	Q100	242.90	106.80	110.12	110.60	111.60	0.005382	5.80	64.15	67.98	1.09	
Riusec	180 1680	Q100	242.90	106.60	110.00	110.51	111.49	0.005622	5.59	59.73	81.69	1.09	
Riusec	160 1700	Q100	242.90	106.40	110.08	110.48	111.31	0.004556	5.47	75.98	82.98	0.97	
Riusec	140 1720	Q100	242.90	106.20	109.93	110.37	111.22	0.003945	5.				

HEC-RAS Plan: Plan 16 River: Riusec Reach: Riusec Profile: Q500

Reach	River Sta	Profile	Q Total (m ³ /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 ²)	Top Width (m)	Froude # Chl
Riusec	1640 20	Q500	242.00	123.00	126.96	125.55	127.44	0.000618	3.06	81.95	23.92	0.50
Riusec	1620 40	Q500	242.00	122.82	126.61	125.98	127.38	0.001728	3.91	62.79	20.50	0.69
Riusec	1800 60	Q500	242.00	122.64	125.88	125.98	127.09	0.003278	5.12	50.92	22.53	0.96
Riusec	1780 80	Q500	242.00	122.52	124.88	125.50	127.09	0.008641	6.63	37.73	20.20	1.48
Riusec	1760 100	Q500	242.00	122.28	125.88	125.88	126.83	0.026512	4.40	63.43	47.59	0.61
Riusec	1740 120	Q500	242.00	122.10	124.61	125.29	126.64	0.009359	6.31	38.59	22.38	1.48
Riusec	1730.550	Q500	242.00	121.92	125.40	124.04	125.75	0.001045	3.38	118.67	77.22	0.58
Riusec	1715	Bridge										
Riusec	1695.516	Q500	249.20	121.68	125.30	123.49	125.44	0.003301	1.70	154.88	55.35	0.30
Riusec	1640 220	Q500	249.20	120.71	125.15	123.99	125.39	0.006501	2.49	150.12	65.97	0.40
Riusec	1620 240	Q500	249.20	120.39	125.21	125.36	125.36	0.002500	1.89	177.96	64.57	0.28
Riusec	1600 260	Q500	249.20	120.06	125.07	125.34	125.34	0.000395	2.37	125.12	52.74	0.35
Riusec	1580 280	Q500	249.20	119.74	124.70	125.30	125.30	0.001068	3.58	83.15	41.62	0.53
Riusec	1560 300	Q500	249.20	119.50	123.61	123.61	125.16	0.004083	5.60	47.86	17.04	0.96
Riusec	1540 320	Q500	249.20	119.26	123.05	124.93	124.93	0.008655	7.22	35.23	16.31	1.49
Riusec	1520 340	Q500	249.20	119.01	122.07	122.86	124.74	0.009619	7.26	35.29	16.52	1.49
Riusec	1500 360	Q500	249.20	118.77	121.74	122.58	124.53	0.010289	7.44	34.66	16.87	1.54
Riusec	1480 380	Q500	249.20	118.63	122.11	122.59	124.14	0.006217	6.39	41.68	18.57	1.21
Riusec	1460 400	Q500	249.20	118.36	122.73	123.67	123.62	0.001223	3.65	75.03	24.64	0.69
Riusec	1440 420	Q500	249.20	118.36	122.73	123.67	123.67	0.001718	4.14	66.86	23.64	0.69
Riusec	1420 440	Q500	249.20	118.23	122.85	123.48	123.48	0.001196	3.62	84.74	56.53	0.58
Riusec	1400 460	Q500	249.20	118.09	122.54	123.42	123.42	0.001851	4.22	64.07	28.83	0.70
Riusec	1380 480	Q500	249.20	117.96	121.84	121.84	121.84	0.003697	5.43	48.71	19.20	0.97
Riusec	1360 500	Q500	249.20	117.82	122.29	121.28	122.95	0.001262	3.70	76.61	26.11	0.59
Riusec	1340 520	Q500	249.20	117.55	121.42	121.42	122.83	0.003508	5.36	50.56	19.92	0.95
Riusec	1300 560	Q500	249.20	117.00	120.86	120.86	122.53	0.008300	6.82	38.11	17.96	1.37
Riusec	1280 580	Q500	249.20	116.75	120.17	120.75	122.33	0.006725	6.60	40.90	19.09	1.26
Riusec	1260 600	Q500	249.20	116.50	119.63	120.37	122.14	0.008946	7.12	37.03	18.54	1.43
Riusec	1240 620	Q500	249.20	116.25	118.77	119.74	121.86	0.014890	7.80	32.58	20.05	1.83
Riusec	1220 640	Q500	249.20	116.00	120.71	119.23	121.12	0.000723	2.93	96.57	32.03	0.47
Riusec	1200 660	Q500	249.20	115.76	120.75	121.08	121.08	0.000555	2.63	107.91	35.17	0.41
Riusec	1180 680	Q500	249.20	115.51	119.53	119.53	120.95	0.003526	5.41	51.36	20.35	0.94
Riusec	1160 700	Q500	249.20	115.38	118.90	119.34	120.81	0.005698	6.24	43.93	20.37	1.17
Riusec	1140 720	Q500	249.20	115.25	119.32	119.27	120.65	0.003769	5.23	52.63	20.85	0.92
Riusec	1120 740	Q500	249.20	115.11	119.81	120.38	120.38	0.001189	3.39	77.43	26.80	0.95
Riusec	1100 760	Q500	249.20	114.98	119.63	120.34	120.34	0.001697	3.87	73.69	28.15	0.85
Riusec	1080 780	Q500	249.20	114.85	119.61	120.30	120.30	0.001603	3.93	77.88	28.74	0.63
Riusec	1053.481.806.519	Q500	249.20	114.70	118.81	118.81	120.17	0.003486	5.36	54.01	22.62	0.81
Riusec	1040 820	Q500	249.20	114.56	118.18	118.63	120.06	0.006296	6.20	44.32	20.40	1.15
Riusec	1020 840	Q500	249.20	114.41	119.17	118.42	119.82	0.001573	3.84	82.07	35.72	0.61
Riusec	1000 860	Q500	249.20	114.26	119.14	118.29	119.78	0.001678	3.86	82.99	35.96	0.60
Riusec	980 880	Q500	249.20	114.12	118.29	118.29	119.67	0.003375	5.34	53.35	22.30	0.90
Riusec	960 900	Q500	249.20	113.97	116.81	117.59	118.43	0.010248	7.18	35.27	17.18	1.53
Riusec	940 920	Q500	249.20	113.75	116.54	117.32	119.21	0.011129	7.25	34.62	16.99	1.57
Riusec	920 940	Q500	249.20	113.53	117.30	118.82	118.82	0.002933	4.93	52.83	18.03	0.81
Riusec	900 960	Q500	249.20	113.31	117.63	117.63	118.72	0.002411	4.83	65.52	35.30	0.81
Riusec	880 980	Q500	249.20	113.09	116.15	116.97	118.51	0.009187	6.82	37.37	19.99	1.42
Riusec	860 1000	Q500	249.20	112.87	115.82	116.72	118.30	0.010530	6.97	35.80	17.74	1.52
Riusec	840 1020	Q500	249.20	112.68	117.20	116.17	117.70	0.001110	3.27	96.13	52.68	0.54
Riusec	820 1040	Q500	249.20	112.48	117.24	116.66	117.66	0.000841	3.16	111.23	43.91	0.48
Riusec	800 1060	Q500	306.80	112.30	117.14	117.63	117.63	0.000984	3.41	123.94	47.49	0.51
Riusec	780 1080	Q500	306.80	112.20	117.21	117.58	117.58	0.000664	2.94	139.83	48.51	0.43
Riusec	760 1100	Q500	306.80	112.10	116.52	116.52	117.50	0.002617	5.01	94.13	46.52	0.78
Riusec	740 1120	Q500	306.80	112.00	114.73	115.66	117.26	0.008573	7.04	43.64	16.68	1.38
Riusec	720 1140	Q500	306.80	111.80	114.14	115.28	117.02	0.011466	7.52	40.82	18.10	1.59
Riusec	700 1160	Q500	306.80	111.60	113.79	114.91	116.77	0.012900	7.65	40.11	19.79	1.71
Riusec	680 1180	Q500	306.80	111.39	115.58	114.69	116.15	0.001118	3.49	109.07	43.36	0.55
Riusec	654.4750.1205.525	Q500	306.80	111.19	115.21	116.01	116.01	0.002109	4.45	91.45	40.98	0.75
Riusec	640 1220	Q500	306.80	110.99	115.28	116.01	116.01	0.001671	4.16	100.63	40.95	0.67
Riusec	620 1240	Q500	306.80	110.74	114.73	115.92	115.92	0.003257	5.40	80.60	36.00	0.91
Riusec	600 1260	Q500	306.80	110.49	114.77	114.77	115.81	0.002946	5.28	88.66	40.28	0.84
Riusec	580 1280	Q500	306.80	110.25	114.03	114.48	115.67	0.005652	6.30	69.02	38.94	1.08
Riusec	560 1300	Q500	306.80	110.00	114.53	114.29	115.35	0.002475	4.60	97.72	60.00	0.72
Riusec	540 1320	Q500	306.80	109.77	114.28	114.17	115.28	0.002437	4.88	89.11	36.01	0.77
Riusec	520 1340	Q500	306.80	109.54	114.39	115.17	115.17	0.001974	4.46	102.52	55.32	0.67
Riusec	500 1360	Q500	306.80	109.31	114.66	115.02	115.02	0.000857	3.30	162.84	76.71	0.46
Riusec	480 1380	Q500	306.80	109.07	114.75	114.97	114.97	0.000537	2.70	205.08	89.20	0.37
Riusec	473.5938.1386.4062	Q500	306.80	109.00	114.43	113.63	114.94	0.001124	3.69	127.35	84.48	0.52
Riusec	451	Bridge										
Riusec	429.7419.1430.2581	Q500	306.80	108.69	114.01	113.30	114.37	0.000987	3.30	151.74	81.68	0.47
Riusec	420 1440	Q500	306.80	108.53	113.87	114.31	114.31	0.001295	3.67	143.00	71.78	0.52
Riusec	400 1460	Q500	350.00	108.37	113.13	113.13	114.21	0.002581	5.25	101.21	46.98	0.79
Riusec	380 1480	Q500	350.00	108.21	112.65	113.00	114.11	0.003598	5.95	85.57	40.31	0.92
Riusec	360 1500	Q500	350.00	108.05	112.16	112.68	113.99	0.004900	6.61	77.02	43.18	1.07
Riusec	340 1520	Q500	352.00	107.89	111.73	112.39	113.86	0.006166	7.12	73.27	46.38	1.19
Riusec	320 1540	Q500	352.00	107.76	111.27	112.05	113.69	0.008037	7.58	68.88	48.34	1.36
Riusec	300 1560	Q500	352.00	107.64	110.80	111.84	113.49	0.009271	7.82	64.00	50.35	1.50
Riusec	280 1580	Q500	352.00	107.31	110.65	111.54	113.30	0.008327	7.26	53.85	53.01	1.39
Riusec	260 1600	Q500	352.00	107.25	110.53	111.30	113.10	0.009476	8.00	71.01	59.59	1.46
Riusec	240 1620	Q500	352.00	107.13	110.42	111.17	112.88	0.008608	7.73	72.38	61.77	1.42
Riusec	220 1640	Q500	352.00	107.00	110.37	111.09	112.67	0.008050	7.45	74.94	64.90	1.38
Riusec	200 1660	Q500	352.00	106.80	110.34	111.01	112.46	0.007533	7.20	79.20	69.61	1.30
Riusec	180 1680	Q500	352.00	106.60	110.23	110.89	112.30	0.007065	6.85	79.27	84.91	1.28
Riusec	160 1700	Q500	352.00	106.40	110.26	110.84	112.09	0.006794	6.91	90.40	83.57	1.20
Riusec	140 1720	Q500	352.00	106.20	110.16	110.75	111.95	0.005478	6.68	92.35	85.42	1.10
Riusec	120 1740	Q500	352.00	106.00	109.71	110.37	111.80	0.006803	7.19	84.22	76.70	1.23
Riusec	100 1760	Q500	352.00	105.77	110.39	110.01	110.84	0.0011				