



# COMUNE DI CASOLE D'ELSA

## REGOLAMENTO URBANISTICO VARIANTE GENERALE

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Piero Pii

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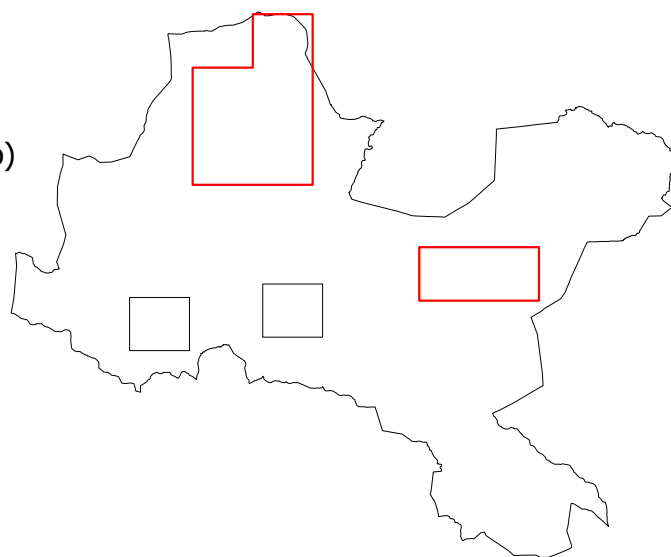
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STUDIO IDRAULICO

ALLEGATO IDRAULICO 3 - RISULTATI DELLA  
MODELLAZIONE ALLO STATO DI PROGETTO DEI CORSI  
D'ACQUA INSISTENTI SULL'AREA INDUSTRIALE IL PIANO

Marzo 2014

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*(Per la decodifica delle sigle fare riferimento alla Relazione Illustrativa o alle tavole grafiche allegate)*

River	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
F_str	area industriale	16	200-1 prog	0.20	254.12	254.40		254.42	0.006026	0.67	0.30	1.70	0.51
F_str	area industriale	16	30-1 prog	0.20	254.12	254.40		254.42	0.006026	0.67	0.30	1.70	0.51
F_str	area industriale	15	200-1 prog	0.21	253.55	253.98		253.99	0.001049	0.34	0.60	2.50	0.22
F_str	area industriale	15	30-1 prog	0.21	253.55	253.98		253.99	0.001049	0.34	0.60	2.50	0.22
F_str	area industriale	14.88		Lat Struct									
F_str	area industriale	14	200-1 prog	0.20	253.24	253.94		253.95	0.000098	0.15	1.32	3.23	0.07
F_str	area industriale	14	30-1 prog	0.20	253.24	253.94		253.95	0.000098	0.15	1.32	3.23	0.07
F_str	area industriale	13.5		Culvert									
F_str	area industriale	13	200-1 prog	0.19	252.90	253.37		253.37	0.001549	0.40	0.48	2.02	0.26
F_str	area industriale	13	30-1 prog	0.19	252.90	253.31		253.32	0.002546	0.50	0.38	1.60	0.33
F_str	area industriale	12.9	200-1 prog	0.19	252.90	253.36		253.37	0.001555	0.40	0.48	2.01	0.26
F_str	area industriale	12.9	30-1 prog	0.19	252.90	253.31		253.32	0.002634	0.51	0.38	1.59	0.34
F_str	area industriale	12.89		Lat Struct									
F_str	area industriale	12	200-1 prog	1.14	252.25	253.22		253.22	0.000713	0.40	2.82	6.92	0.20
F_str	area industriale	12	30-1 prog	0.88	252.25	253.14		253.15	0.000739	0.38	2.32	6.35	0.20
F_str	area industriale	11	200-1 prog	2.16	252.00	252.83	252.79	252.97	0.012921	1.64	1.40	5.88	0.79
F_str	area industriale	11	30-1 prog	1.27	252.00	252.71		252.80	0.012986	1.39	0.91	2.68	0.76
F_str	area industriale	10.89		Lat Struct									
F_str	area industriale	10.88		Lat Struct									
F_str	area industriale	10	200-1 prog	2.25	251.12	252.11		252.13	0.001357	0.72	4.14	15.64	0.29
F_str	area industriale	10	30-1 prog	1.50	251.12	252.06		252.07	0.001051	0.60	3.33	15.64	0.25
F_str	area industriale	9.5		Culvert									
F_str	area industriale	9	200-1 prog	2.25	251.12	251.85	251.84	252.04	0.017760	1.93	1.17	2.82	0.96
F_str	area industriale	9	30-1 prog	1.50	251.12	251.74		251.89	0.016683	1.70	0.88	2.46	0.91
F_str	area industriale	8.89		Lat Struct									
F_str	area industriale	8.88		Lat Struct									
F_str	area industriale	8	200-1 prog	1.10	250.12	251.24		251.24	0.000129	0.22	6.09	18.59	0.09
F_str	area industriale	8	30-1 prog	0.85	250.12	251.18		251.19	0.000129	0.21	5.10	18.59	0.08
F_str	area industriale	7.5		Culvert									
F_str	area industriale	7	200-1 prog	1.09	250.12	251.19		251.19	0.000204	0.27	5.17	18.59	0.11
F_str	area industriale	7	30-1 prog	0.84	250.12	251.12		251.12	0.000253	0.28	3.94	18.59	0.12
F_str	area industriale	6.89		Lat Struct									
F_str	area industriale	6.88		Lat Struct									
F_str	area industriale	6	200-1 prog	-0.27	250.20	251.18		251.18	0.000006	-0.04	6.29	19.13	0.02
F_str	area industriale	6	30-1 prog	-0.08	250.20	251.12		251.12	0.000001	-0.02	5.03	19.13	0.01
F_str	area industriale	5	200-1 prog	3.42	249.98	251.10		251.12	0.001252	0.73	6.29	22.03	0.28
F_str	area industriale	5	30-1 prog	2.48	249.98	251.06		251.08	0.001005	0.63	5.36	22.03	0.25
F_str	area industriale	4.5		Culvert									
F_str	area industriale	4	200-1 prog	3.42	248.72	249.81		249.94	0.006851	1.59	2.16	2.35	0.51
F_str	area industriale	4	30-1 prog	2.48	248.72	249.66		249.75	0.005713	1.36	1.82	2.14	0.47
F_str	area industriale	3	200-1 prog	3.45	248.72	249.79		249.93	0.007355	1.63	2.12	2.29	0.53
F_str	area industriale	3	30-1 prog	2.49	248.72	249.65		249.75	0.006001	1.38	1.80	2.14	0.48
F_str	area industriale	2	200-1 prog	3.45	248.72	249.68		249.86	0.010291	1.84	1.87	2.15	0.63
F_str	area industriale	2	30-1 prog	2.49	248.72	249.57		249.69	0.007854	1.53	1.63	2.11	0.56
F_str	area industriale	1	200-1 prog	3.45	248.42	249.44	249.39	249.52	0.006684	1.38	2.95	9.19	0.54
F_str	area industriale	1	30-1 prog	2.49	248.42	249.33	249.34	249.44	0.011263	1.57	1.87	9.19	0.68
F_ai	area industriale	7.2	200-1 prog	4.77	256.30	256.87	256.88	260.17	0.635066	8.06	0.59	1.99	4.71
F_ai	area industriale	7.2	30-1 prog	1.11	256.30	256.88	256.88	257.04	0.031287	1.81	0.61	2.02	1.05
F_ai	area industriale	7.1	200-1 prog	0.53	256.00	256.81		256.81	0.000000	0.01	56.57	163.80	0.00
F_ai	area industriale	7.1	30-1 prog	0.98	256.00	256.54	256.58	256.73	0.037844	1.91	0.51	1.75	1.13
F_ai	area industriale	7	200-1 prog	0.50	255.50	256.81		256.81	0.000000	0.00	113.46	189.78	0.00
F_ai	area industriale	7	30-1 prog	0.41	255.50	256.52		256.52	0.000000	0.01	60.28	185.77	0.00
F_ai	area industriale	6	200-1 prog	0.50	255.36	256.81		256.81	0.000000	0.00	125.53	189.78	0.00
F_ai	area industriale	6	30-1 prog	0.40	255.36	256.52		256.52	0.000000	0.01	72.36	185.77	0.00
F_ai	area industriale	5.5		Culvert									
F_ai	area industriale	5	200-1 prog	0.39	255.36	256.20		256.21	0.001844	0.51	0.76	1.57	0.23
F_ai	area industriale	5	30-1 prog	0.40	255.36	256.11		256.13	0.003291	0.64	0.63	1.44	0.31
F_ai	area industriale	4.99		Lat Struct									
F_ai	area industriale	4.98		Lat Struct									
F_ai	area industriale	4.9	200-1 prog	0.74	255.00	255.92		255.94	0.001001	0.48	1.56	2.33	0.19
F_ai	area industriale	4.9	30-1 prog	0.51	255.00	255.75		255.76	0.001000	0.43	1.18	2.10	0.18
F_ai	area industriale	4.8	200-1 prog	0.74	254.92	255.93		255.93	0.000010	0.07	10.19	12.92	0.03
F_ai	area industriale	4.8	30-1 prog	0.51	254.92	255.76		255.76	0.000009	0.06	8.04	12.30	0.03
F_ai	area industriale	4.2	200-1 prog	0.81	254.92	255.93		255.93	0.000011	0.08	10.18	12.92	0.03

River	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
F_ai	area industriale	4.2	30-1 prog	0.55	254.92	255.76		255.76	0.000011	0.07	8.03	12.30	0.03
F_ai	area industriale	4.1	200-1 prog	0.82	254.92	255.92		255.94	0.002618	0.64	1.27	2.88	0.31
F_ai	area industriale	4.1	30-1 prog	0.55	254.92	255.74		255.77	0.003611	0.66	0.84	2.26	0.35
F_ai	area industriale	4	200-1 prog	0.87	254.87	255.89		255.91	0.002524	0.65	1.33	2.85	0.30
F_ai	area industriale	4	30-1 prog	0.58	254.87	255.71		255.73	0.003571	0.67	0.87	2.30	0.35
F_ai	area industriale	3.5		Culvert									
F_ai	area industriale	3	200-1 prog	0.87	254.87	255.76		255.80	0.005623	0.87	0.99	2.50	0.44
F_ai	area industriale	3	30-1 prog	0.58	254.87	255.66		255.69	0.005013	0.76	0.76	2.16	0.41
F_ai	area industriale	2.99		Lat Struct									
F_ai	area industriale	2	200-1 prog	1.29	254.43	255.49		255.50	0.000986	0.51	2.60	6.57	0.21
F_ai	area industriale	2	30-1 prog	0.82	254.43	255.44		255.45	0.000528	0.35	2.32	5.05	0.15
F_ai	area industriale	1	200-1 prog	1.01	254.18	255.49		255.49	0.000117	0.24	4.54	8.13	0.09
F_ai	area industriale	1	30-1 prog	0.69	254.18	255.44		255.44	0.000070	0.18	4.17	8.13	0.07
F_ai	area industriale	0.95		Culvert									
F_ai	area industriale	0.9	200-1 prog	1.01	253.72	254.73		254.74	0.000327	0.44	2.28	4.76	0.19
F_ai	area industriale	0.9	30-1 prog	0.69	253.72	254.69		254.70	0.000184	0.32	2.14	4.19	0.14
F_ai	area industriale	0.8	200-1 prog	1.03	253.72	254.73		254.73	0.000006	0.07	14.09	16.47	0.03
F_ai	area industriale	0.8	30-1 prog	0.69	253.72	254.70		254.70	0.000003	0.05	13.55	16.45	0.02
F_ai	area industriale	0.79		Lat Struct									
F_ai	area industriale	0.2	200-1 prog	1.06	253.72	254.73		254.73	0.000006	0.07	14.09	16.47	0.03
F_ai	area industriale	0.2	30-1 prog	0.69	253.72	254.70		254.70	0.000003	0.05	13.54	16.45	0.02
F_ai	area industriale	0.15		Culvert									
F_ai	area industriale	0.1	200-1 prog	0.98	252.90	254.05		254.05	0.000078	0.23	4.67	16.96	0.10
F_ai	area industriale	0.1	30-1 prog	0.69	252.90	253.70		253.71	0.000473	0.39	1.79	5.68	0.22
F_ai	area industriale	0.09	200-1 prog	0.20	252.90	254.05	253.15	254.05	0.000003	0.05	4.67	16.95	0.02
F_ai	area industriale	0.09	30-1 prog	0.20	252.90	253.70	253.15	253.70	0.000039	0.11	1.78	5.67	0.06
FM	tratto 1	13	200-1 prog	7.86	264.99	266.07		266.38	0.027429	2.46	3.20	3.54	0.83
FM	tratto 1	13	30-1 prog	4.43	264.99	265.80		266.00	0.025337	2.00	2.21	3.54	0.81
FM	tratto 1	12.9	200-1 prog	7.86	264.99	265.99	265.96	266.36	0.036181	2.71	2.90	3.54	0.95
FM	tratto 1	12.9	30-1 prog	4.43	264.99	265.73	265.71	265.98	0.034917	2.23	1.99	3.54	0.95
FM	tratto 1	12.89		Lat Struct									
FM	tratto 1	12.88		Lat Struct									
FM	tratto 1	12	200-1 prog	2.63	263.79	265.10		265.13	0.002769	0.76	3.46	4.79	0.29
FM	tratto 1	12	30-1 prog	2.06	263.79	265.06		265.08	0.002038	0.64	3.24	4.69	0.24
FM	tratto 1	11	200-1 prog	1.50	263.66	265.13		265.13	0.000423	0.35	4.28	3.93	0.11
FM	tratto 1	11	30-1 prog	1.17	263.66	265.07		265.08	0.000298	0.29	4.07	3.93	0.09
FM	tratto 1	10.5		Culvert									
FM	tratto 1	10	200-1 prog	1.50	263.66	265.09		265.09	0.000434	0.34	4.35	4.35	0.11
FM	tratto 1	10	30-1 prog	1.16	263.66	265.05		265.05	0.000289	0.28	4.20	4.35	0.09
FM	tratto 1	9.89		Lat Struct									
FM	tratto 1	9.88		Lat Struct									
FM	tratto 1	9	200-1 prog	0.59	263.65	265.09		265.09	0.000037	0.10	5.60	6.21	0.04
FM	tratto 1	9	30-1 prog	0.41	263.65	265.06		265.06	0.000021	0.08	5.36	6.19	0.03
FM	tratto 1	8	200-1 prog	0.30	259.99	260.22		260.26	0.032046	0.90	0.33	2.59	0.80
FM	tratto 1	8	30-1 prog	0.30	259.99	260.22		260.26	0.032046	0.90	0.33	2.59	0.80
FM	tratto 1	7.5		Culvert									
FM	tratto 1	7	200-1 prog	0.30	259.84	260.12		260.17	0.026845	0.98	0.30	1.72	0.75
FM	tratto 1	7	30-1 prog	0.30	259.84	260.12		260.17	0.026845	0.98	0.30	1.72	0.75
FM	tratto 1	6	200-1 prog	0.32	259.73	259.98		260.01	0.013173	0.71	0.45	2.51	0.53
FM	tratto 1	6	30-1 prog	0.32	259.73	259.98		260.01	0.013173	0.71	0.45	2.51	0.53
FM	tratto 1	5.89		Lat Struct									
FM	tratto 1	5	200-1 prog	0.36	255.78	257.18		257.18	0.000030	0.09	4.26	5.32	0.03
FM	tratto 1	5	30-1 prog	0.36	255.78	257.18		257.18	0.000030	0.09	4.26	5.32	0.03
FM	tratto 1	4.5		Culvert									
FM	tratto 1	4	200-1 prog	0.30	255.73	256.17		256.19	0.006116	0.59	0.51	1.99	0.37
FM	tratto 1	4	30-1 prog	0.30	255.73	256.17		256.18	0.006148	0.59	0.50	1.99	0.37
FM	tratto 1	3.89		Lat Struct									
FM	tratto 1	3.88		Lat Struct									
FM	tratto 1	3.1	200-1 prog	0.29	252.31	253.07		253.08	0.000437	0.23	1.27	2.68	0.11
FM	tratto 1	3.1	30-1 prog	0.29	252.31	253.03		253.03	0.000584	0.25	1.15	2.57	0.12
FM	tratto 1	3	200-1 prog	0.29	252.31	253.07		253.08	0.000437	0.23	1.26	2.68	0.11
FM	tratto 1	3	30-1 prog	0.29	252.31	253.03		253.03	0.000586	0.25	1.15	2.57	0.12
FM	tratto 1	2.9	200-1 prog	0.27	252.01	253.07		253.07	0.000094	0.13	2.17	3.46	0.05
FM	tratto 1	2.9	30-1 prog	0.28	252.01	253.02		253.02	0.000120	0.14	2.01	3.34	0.06

River	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
FM	tratto 2	2.1	200-1 prog	4.75	251.90	253.07		253.14	0.006091	1.19	4.30	10.67	0.44
FM	tratto 2	2.1	30-1 prog	4.56	251.90	253.02		253.10	0.007088	1.24	3.82	9.60	0.48
FM	tratto 2	2	200-1 prog	4.72	251.76	253.01		253.06	0.003786	0.99	5.23	10.82	0.35
FM	tratto 2	2	30-1 prog	4.55	251.76	252.95		253.01	0.004921	1.08	4.55	10.71	0.40
FM	tratto 2	1.89											
FM	tratto 2	1.88											
FM	tratto 2	1.1	200-1 prog	0.08	250.77	252.69		252.69	0.000000	0.01	9.15	8.01	0.00
FM	tratto 2	1.1	30-1 prog	4.52	250.77	252.37		252.40	0.001488	0.71	6.57	8.01	0.22
FM	tratto 2	1	200-1 prog	0.08	250.77	252.69		252.69	0.000000	0.01	9.15	8.01	0.00
FM	tratto 2	1	30-1 prog	4.49	250.77	252.37		252.40	0.001480	0.71	6.56	8.01	0.22
BMC	tratto 1	18	200-1 prog	4.95	266.03	266.86	266.94	267.21	0.034152	2.63	1.88	3.97	1.22
BMC	tratto 1	18	30-1 prog	2.83	266.03	266.68	266.72	266.94	0.031744	2.25	1.26	3.17	1.14
BMC	tratto 1	17.9	200-1 prog	4.95	266.03	266.82	266.94	267.23	0.041974	2.85	1.74	3.78	1.34
BMC	tratto 1	17.9	30-1 prog	2.83	266.03	266.64	266.72	266.95	0.041341	2.47	1.15	3.07	1.29
BMC	tratto 1	17.89											
BMC	tratto 1	17	200-1 prog	3.00	263.55	265.23		265.24	0.000763	0.60	5.02	4.74	0.19
BMC	tratto 1	17	30-1 prog	2.29	263.55	265.08		265.09	0.000683	0.53	4.33	4.74	0.18
BMC	tratto 1	16.5											
BMC	tratto 1	16	200-1 prog	2.73	262.93	264.51		264.52	0.001426	0.53	5.19	5.86	0.18
BMC	tratto 1	16	30-1 prog	1.94	262.93	264.39		264.40	0.001031	0.43	4.53	5.46	0.15
BMC	tratto 1	15.5											
BMC	tratto 1	15.1	200-1 prog	0.71	262.91	264.53	263.32	264.53	0.000075	0.12	5.78	6.49	0.04
BMC	tratto 1	15.1	30-1 prog	0.26	262.91	264.40	263.17	264.40	0.000015	0.05	4.99	6.13	0.02
BMC	tratto 1	15.05											
BMC	tratto 1	15	200-1 prog	0.71	262.91	264.53		264.53	0.000076	0.12	5.77	6.48	0.04
BMC	tratto 1	15	30-1 prog	0.26	262.91	264.40		264.40	0.000015	0.05	4.99	6.13	0.02
BMC	tratto 1	14.99											
BMC	tratto 1	14.9	200-1 prog	0.03	262.91	264.53		264.53	0.000000	0.01	5.78	6.49	0.00
BMC	tratto 1	14.9	30-1 prog	0.05	262.91	264.40		264.40	0.000001	0.01	4.99	6.13	0.00
BMC	tratto 1	14	200-1 prog	0.18	252.83	253.06		253.09	0.031323	0.76	0.23	1.73	0.66
BMC	tratto 1	14	30-1 prog	0.17	252.83	253.06		253.09	0.031289	0.75	0.23	1.70	0.66
BMC	tratto 2	13.9	200-1 prog	0.51	252.30	253.06		253.08	0.006729	0.63	0.82	2.15	0.32
BMC	tratto 2	13.9	30-1 prog	0.52	252.30	253.06		253.08	0.007093	0.64	0.81	2.14	0.33
BMC	tratto 2	13.8	200-1 prog	0.51	252.30	253.05		253.07	0.006958	0.63	0.80	2.13	0.33
BMC	tratto 2	13.8	30-1 prog	0.52	252.30	253.05		253.07	0.007381	0.65	0.79	2.12	0.34
BMC	tratto 2	13.79											
BMC	tratto 2	13.78											
BMC	tratto 2	13	200-1 prog	-2.22	251.19	252.28		252.29	0.001058	-0.39	5.66	8.32	0.15
BMC	tratto 2	13	30-1 prog	-0.92	251.19	252.18		252.18	0.000306	-0.19	4.80	8.32	0.08
BMC	tratto 2	12.96	200-1 prog	4.12	251.00	252.28		252.30	0.001942	0.64	6.20	8.32	0.21
BMC	tratto 2	12.96	30-1 prog	2.58	251.00	252.03		252.05	0.002717	0.65	4.14	8.32	0.24
BMC	tratto 2	12.95	200-1 prog	4.17	251.00	252.27		252.30	0.002017	0.65	6.17	8.32	0.21
BMC	tratto 2	12.95	30-1 prog	2.66	251.00	252.02		252.05	0.003004	0.68	4.09	8.32	0.25
BMC	tratto 3	12.9	200-1 prog	1.61	250.68	252.27		252.28	0.000694	0.35	4.54	4.76	0.12
BMC	tratto 3	12.9	30-1 prog	3.00	250.68	252.02		252.06	0.005928	0.90	3.35	4.71	0.34
BMC	tratto 3	12.8	200-1 prog	1.61	250.68	252.27		252.28	0.000696	0.35	4.53	4.76	0.12
BMC	tratto 3	12.8	30-1 prog	3.00	250.68	252.02		252.06	0.006088	0.90	3.31	4.70	0.34
BMC	tratto 3	12.79											
BMC	tratto 3	12.78											
BMC	tratto 3	12	200-1 prog	-1.08	250.68	252.27		252.28	0.000310	-0.24	4.57	4.76	0.08
BMC	tratto 3	12	30-1 prog	1.45	250.68	251.92		251.94	0.002107	0.50	2.90	4.61	0.20
BMC	tratto 3	11.1	200-1 prog	3.31	249.87	252.26		252.27	0.000209	0.29	11.04	6.60	0.07
BMC	tratto 3	11.1	30-1 prog	2.61	249.87	251.81		251.81	0.000334	0.32	8.04	6.60	0.09
BMC	tratto 3	11	200-1 prog	3.31	249.87	252.26		252.27	0.000209	0.29	11.04	6.60	0.07
BMC	tratto 3	11	30-1 prog	2.61	249.87	251.81		251.81	0.000334	0.32	8.03	6.60	0.09
BMC	tratto 4	10	200-1 prog	5.45	249.78	252.26		252.27	0.000603	0.49	11.28	7.50	0.12
BMC	tratto 4	10	30-1 prog	5.56	249.78	251.81		251.83	0.001816	0.72	7.88	7.32	0.21
BMC	tratto 4	9.9	200-1 prog	5.45	249.78	252.26		252.27	0.000604	0.49	11.27	7.50	0.12
BMC	tratto 4	9.9	30-1 prog	5.56	249.78	251.80		251.83	0.001826	0.72	7.86	7.32	0.21
BMC	tratto 4	9.89											
BMC	tratto 4	9.88											
BMC	tratto 4	9	200-1 prog	12.00	249.69	252.19	250.84	252.22	0.000616	0.77	15.50	9.17	0.19
BMC	tratto 4	9	30-1 prog	8.80	249.69	251.73	250.67	251.76	0.000838	0.78	11.33	9.14	0.22
BMC	tratto 4	8.5											

River	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
BMC	tratto 4	8	200-1 prog	11.99	249.69	251.95		251.99	0.000965	0.90	13.30	9.17	0.24
BMC	tratto 4	8	30-1 prog	8.78	249.69	251.58		251.62	0.001188	0.88	9.95	8.67	0.26
BMC	tratto 4	7	200-1 prog	12.00	249.09	251.94	250.33	251.96	0.000387	0.67	19.12	17.21	0.16
BMC	tratto 4	7	30-1 prog	8.78	249.09	251.56	250.16	251.59	0.000463	0.64	13.85	11.32	0.17
BMC	tratto 4	6.5		Bridge									
BMC	tratto 4	6	200-1 prog	12.00	249.09	251.78		251.81	0.000545	0.75	16.59	14.43	0.19
BMC	tratto 4	6	30-1 prog	8.76	249.09	251.47		251.50	0.000559	0.68	12.87	10.31	0.18
BMC	tratto 4	5	200-1 prog	11.99	249.12	251.72		251.77	0.001065	0.93	12.89	9.10	0.25
BMC	tratto 4	5	30-1 prog	8.75	249.12	251.42		251.45	0.001039	0.85	10.26	8.09	0.24
BMC	tratto 4	4	200-1 prog	11.99	249.19	251.74	250.15	251.75	0.000179	0.43	28.00	17.53	0.11
BMC	tratto 4	4	30-1 prog	8.75	249.19	251.43	250.04	251.43	0.000166	0.38	22.84	15.92	0.10
BMC	tratto 4	3.5		Bridge									
BMC	tratto 4	3	200-1 prog	11.97	249.19	251.68		251.69	0.000305	0.44	27.04	17.15	0.11
BMC	tratto 4	3	30-1 prog	8.74	249.19	251.40		251.41	0.000273	0.39	22.42	15.83	0.10
BMC	tratto 4	2	200-1 prog	11.92	249.58	251.63		251.69	0.002401	1.03	11.58	9.40	0.30
BMC	tratto 4	2	30-1 prog	8.73	249.58	251.35		251.40	0.002628	0.97	9.04	8.87	0.31
BMC	tratto 4	1	200-1 prog	11.82	248.16	250.43	249.63	250.45	0.000548	0.57	21.20	17.89	0.14
BMC	tratto 4	1	30-1 prog	8.68	248.16	250.10	249.54	250.11	0.000847	0.61	15.22	17.89	0.17
BF	tratto 1	20	200-1 prog	7.77	260.53	262.26		262.34	0.004442	1.32	6.04	8.39	0.41
BF	tratto 1	20	30-1 prog	4.29	260.53	261.50		261.72	0.023451	2.05	2.09	3.94	0.90
BF	tratto 1	19	200-1 prog	7.73	258.67	262.11	259.91	262.11	0.000136	0.38	22.61	13.79	0.08
BF	tratto 1	19	30-1 prog	4.15	258.67	260.50	259.59	260.54	0.001711	0.82	5.06	4.44	0.25
BF	tratto 1	18.5		Bridge									
BF	tratto 1	18	200-1 prog	7.73	258.66	260.22		260.35	0.007522	1.59	4.88	5.50	0.54
BF	tratto 1	18	30-1 prog	4.15	258.66	259.93		260.01	0.005300	1.21	3.44	4.46	0.44
BF	tratto 1	17.89		Lat Struct									
BF	tratto 1	17	200-1 prog	7.88	258.31	259.39		259.54	0.021294	1.71	4.60	9.61	0.79
BF	tratto 1	17	30-1 prog	4.37	258.31	259.21		259.32	0.020659	1.45	3.01	7.98	0.75
BF	tratto 1	16	200-1 prog	3.11	255.70	256.63		256.64	0.000864	0.40	7.75	13.45	0.17
BF	tratto 1	16	30-1 prog	2.85	255.70	256.61		256.61	0.000812	0.38	7.46	13.31	0.16
BF	tratto 1	15.89		Lat Struct									
BF	tratto 1	15	200-1 prog	2.55	255.52	256.44		256.53	0.012967	1.34	1.91	3.73	0.60
BF	tratto 1	15	30-1 prog	2.40	255.52	256.43		256.51	0.012521	1.30	1.85	3.69	0.58
BF	tratto 1	14.1	200-1 prog	1.87	254.02	254.92		254.95	0.004354	0.80	2.35	4.62	0.36
BF	tratto 1	14.1	30-1 prog	1.86	254.02	254.92		254.95	0.004412	0.80	2.33	4.60	0.36
BF	tratto 2	14	200-1 prog	2.41	254.02	254.92		254.98	0.007245	1.03	2.35	4.62	0.46
BF	tratto 2	14	30-1 prog	2.35	254.02	254.92		254.97	0.007051	1.01	2.33	4.60	0.45
BF	tratto 2	13.9	200-1 prog	2.41	254.02	254.91		254.97	0.007612	1.05	2.30	4.58	0.47
BF	tratto 2	13.9	30-1 prog	2.35	254.02	254.91		254.96	0.007399	1.03	2.28	4.56	0.46
BF	tratto 2	13.89		Lat Struct									
BF	tratto 2	13.88		Lat Struct									
BF	tratto 2	13.48		Lat Struct									
BF	tratto 2	13	200-1 prog	1.70	253.13	254.27		254.28	0.001117	0.50	3.42	4.45	0.18
BF	tratto 2	13	30-1 prog	2.13	253.13	254.19		254.21	0.002512	0.70	3.03	4.45	0.27
BF	tratto 2	12.9	200-1 prog	3.55	253.13	254.15		254.23	0.008123	1.23	2.88	4.45	0.49
BF	tratto 2	12.9	30-1 prog	3.04	253.13	254.11		254.17	0.007285	1.13	2.69	4.42	0.46
BF	tratto 2	12.89		Lat Struct									
BF	tratto 2	12.49		Lat Struct									
BF	tratto 2	12	200-1 prog	2.73	251.82	253.32		253.35	0.001535	0.64	4.28	4.41	0.21
BF	tratto 2	12	30-1 prog	3.19	251.82	253.15		253.19	0.003769	0.91	3.49	4.41	0.33
BF	tratto 2	11.9	200-1 prog	5.32	251.82	253.15		253.27	0.010330	1.51	3.51	4.41	0.54
BF	tratto 2	11.9	30-1 prog	4.49	251.82	253.01		253.13	0.013114	1.55	2.89	4.41	0.61
BF	tratto 2	11.89		Lat Struct									
BF	tratto 2	11	200-1 prog	-2.51	250.97	252.63		252.64	0.000754	-0.49	5.14	4.55	0.15
BF	tratto 2	11	30-1 prog	-0.16	250.97	252.35		252.35	0.000007	-0.04	3.89	4.55	0.01
BF	tratto 2	10.5		Culvert									
BF	tratto 2	10	200-1 prog	-2.53	250.87	252.69		252.70	0.000404	-0.42	6.05	4.93	0.12
BF	tratto 2	10	30-1 prog	-0.50	250.87	252.37		252.37	0.000038	-0.11	4.45	4.89	0.04
BF	tratto 2	9.9	200-1 prog	-2.53	250.87	252.69		252.70	0.000404	-0.42	6.05	4.93	0.12
BF	tratto 2	9.9	30-1 prog	-0.51	250.87	252.37		252.37	0.000040	-0.11	4.45	4.89	0.04
BF	tratto 3	9	200-1 prog	-2.44	250.71	252.69		252.70	0.000120	-0.28	8.62	6.40	0.08
BF	tratto 3	9	30-1 prog	3.98	250.71	252.37		252.39	0.000714	0.61	6.55	6.40	0.19
BF	tratto 3	8.9	200-1 prog	-2.44	250.71	252.69		252.70	0.000120	-0.28	8.62	6.40	0.08
BF	tratto 3	8.9	30-1 prog	3.98	250.71	252.37		252.39	0.000716	0.61	6.54	6.40	0.19

River	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
BF	tratto 3	8.89												
				Lat Struct										
BF	tratto 3	8.88												
				Lat Struct										
BF	tratto 3	8	200-1 prog	6.12	250.59	252.65	251.52	252.67	0.000693	0.62	9.81	7.52	0.17	
BF	tratto 3	8	30-1 prog	5.35	250.59	252.32	251.47	252.35	0.001213	0.73	7.34	7.14	0.23	
BF	tratto 3	7.5												
				Bridge										
BF	tratto 3	7	200-1 prog	6.04	250.56	252.00		252.06	0.003775	1.12	5.37	6.51	0.40	
BF	tratto 3	7	30-1 prog	4.89	250.56	251.78		251.85	0.005402	1.22	4.02	5.69	0.46	
BF	tratto 3	6.9	200-1 prog	6.04	250.56	252.00		252.06	0.003762	1.11	5.46	6.83	0.39	
BF	tratto 3	6.9	30-1 prog	4.89	250.56	251.77		251.85	0.005535	1.21	4.03	5.88	0.47	
BF	tratto 4	6	200-1 prog	8.56	250.51	252.00		252.08	0.003881	1.42	7.25	11.93	0.43	
BF	tratto 4	6	30-1 prog	5.31	250.51	251.77		251.85	0.004000	1.24	4.87	9.27	0.42	
BF	tratto 4	5.9	200-1 prog	8.56	250.51	251.99		252.08	0.003965	1.43	7.19	11.86	0.43	
BF	tratto 4	5.9	30-1 prog	5.31	250.51	251.77		251.84	0.004105	1.25	4.82	9.21	0.42	
BF	tratto 4	5.8	200-1 prog	9.49	250.51	251.93		252.07	0.006231	1.73	6.51	11.17	0.54	
BF	tratto 4	5.8	30-1 prog	6.48	250.51	251.72		251.85	0.007584	1.64	4.41	8.68	0.57	
BF	tratto 4	5.78												
				Lat Struct										
BF	tratto 4	5	200-1 prog	3.97	249.05	251.31		251.31	0.000057	0.24	18.69	16.98	0.06	
BF	tratto 4	5	30-1 prog	6.50	249.05	250.60		250.62	0.000908	0.74	8.81	7.91	0.22	
BF	tratto 4	4.9	200-1 prog	3.97	249.05	251.31		251.31	0.000056	0.24	18.68	16.98	0.06	
BF	tratto 4	4.9	30-1 prog	6.50	249.05	250.60		250.62	0.000911	0.74	8.80	7.91	0.22	
BF	tratto 4	4.88												
				Lat Struct										
BF	tratto 4	4	200-1 prog	8.25	248.60	251.15		251.18	0.000479	0.67	12.43	8.01	0.16	
BF	tratto 4	4	30-1 prog	6.87	248.60	250.25		250.32	0.002627	1.14	6.00	6.18	0.37	
BF	tratto 4	3.88												
				Lat Struct										
BF	tratto 4	3	200-1 prog	11.77	248.22	251.07	249.45	251.10	0.000293	0.70	18.92	13.54	0.16	
BF	tratto 4	3	30-1 prog	7.13	248.22	250.04	249.16	250.08	0.001200	0.94	7.56	6.92	0.29	
BF	tratto 4	2.5												
				Bridge										
BF	tratto 4	2	200-1 prog	11.77	248.22	249.85		250.03	0.005183	1.86	6.34	6.26	0.59	
BF	tratto 4	2	30-1 prog	7.13	248.22	249.59		249.70	0.003806	1.47	4.84	5.34	0.49	
BF	tratto 4	1	200-1 prog	11.76	248.13	249.34	249.55	249.95	0.038878	3.44	3.42	5.17	1.35	
BF	tratto 4	1	30-1 prog	7.13	248.13	249.10	249.23	249.59	0.039719	3.10	2.30	4.13	1.32	
Af5_BMC	tratto 1	6	200-1 prog	0.76	262.72	263.26		263.38	0.025927	1.49	0.51	1.41	0.79	
Af5_BMC	tratto 1	6	30-1 prog	0.45	262.72	263.16		263.24	0.024096	1.24	0.36	1.35	0.77	
Af5_BMC	tratto 1	5.9	200-1 prog	0.76	262.72	263.22	263.21	263.36	0.037729	1.69	0.45	1.41	0.96	
Af5_BMC	tratto 1	5.9	30-1 prog	0.45	262.72	263.11	263.10	263.22	0.037939	1.47	0.31	1.25	0.95	
Af5_BMC	tratto 1	5.89												
				Lat Struct										
Af5_BMC	tratto 1	5.88												
				Lat Struct										
Af5_BMC	tratto 1	5	200-1 prog	0.04	255.89	256.77		256.77	0.000009	0.04	1.15	2.01	0.02	
Af5_BMC	tratto 1	5	30-1 prog	0.04	255.89	256.77		256.77	0.000009	0.04	1.15	2.01	0.02	
Af5_BMC	tratto 1	4.5												
				Culvert										
Af5_BMC	tratto 1	4	200-1 prog	0.04	255.76	255.96		255.98	0.020201	0.63	0.07	0.61	0.61	
Af5_BMC	tratto 1	4	30-1 prog	0.04	255.76	255.96		255.98	0.020201	0.63	0.07	0.61	0.61	
Af5_BMC	tratto 1	3	200-1 prog	0.29	253.27	254.17		254.17	0.000216	0.19	1.66	4.85	0.08	
Af5_BMC	tratto 1	3	30-1 prog	0.29	253.27	254.17		254.17	0.000216	0.19	1.66	4.85	0.08	
Af5_BMC	tratto 1	2.5												
				Culvert										
Af5_BMC	tratto 1	2	200-1 prog	0.03	253.08	253.61		253.61	0.000072	0.07	0.45	1.38	0.04	
Af5_BMC	tratto 1	2	30-1 prog	0.29	253.08	253.60		253.63	0.006007	0.67	0.44	1.36	0.38	
Af5_BMC	tratto 1	1.88												
				Lat Struct										
Af5_BMC	tratto 1	1	200-1 prog	-0.03	252.47	253.61		253.61	0.000000	-0.01	3.69	8.15	0.00	
Af5_BMC	tratto 1	1	30-1 prog	-0.15	252.47	253.51		253.51	0.000014	-0.06	2.87	8.15	0.02	
Af5_BMC	tratto 1	0.5	200-1 prog	-0.03	252.47	253.61		253.61	0.000000	-0.01	3.69	8.15	0.00	
Af5_BMC	tratto 1	0.5	30-1 prog	-0.15	252.47	253.51		253.51	0.000015	-0.06	2.87	8.15	0.02	
Af4_BMC	tratto 1	6	200-1 prog	0.24	252.66	253.16		253.17	0.001495	0.43	0.56	2.08	0.26	
Af4_BMC	tratto 1	6	30-1 prog	0.14	252.66	253.07		253.08	0.001425	0.37	0.38	1.75	0.25	
Af4_BMC	tratto 1	5.9	200-1 prog	0.24	252.66	253.16		253.17	0.001518	0.43	0.56	2.08	0.27	
Af4_BMC	tratto 1	5.9	30-1 prog	0.14	252.66	253.07		253.08	0.001452	0.37	0.38	1.74	0.25	
Af4_BMC	tratto 1	5.88												
				Lat Struct										
Af4_BMC	tratto 1	5	200-1 prog	0.59	252.17	252.72		252.74	0.003726	0.67	0.87	2.71	0.38	
Af4_BMC	tratto 1	5	30-1 prog	0.39	252.17	252.59		252.61	0.006141	0.71	0.54	2.31	0.47	
Af4_BMC	tratto 1	4.89												
				Lat Struct										
Af4_BMC	tratto 1	4.88												
				Lat Struct										
Af4_BMC	tratto 1	4	200-1 prog	0.35	250.73	252.28		252.28	0.000022	0.09	3.85	4.72	0.03	
Af4_BMC	tratto 1	4	30-1 prog	0.23	250.73	252.07		252.07	0.000019	0.08	2.92	4.13	0.03	
Af4_BMC	tratto 1	3.89												
				Lat Struct										

River	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
Af4_BMC	tratto 1	3.88											
				Lat Struct									
Af4_BMC	tratto 1	3	200-1 prog	0.23	250.47	252.28		252.28	0.000004	0.04	5.25	4.68	0.01
Af4_BMC	tratto 1	3	30-1 prog	0.99	250.47	252.05		252.06	0.000140	0.24	4.18	4.68	0.08
Af4_BMC	tratto 1	2.95											
				Culvert									
Af4_BMC	tratto 1	2.9	200-1 prog	0.23	250.47	252.28		252.28	0.000004	0.05	5.22	4.68	0.01
Af4_BMC	tratto 1	2.9	30-1 prog	0.99	250.47	251.92		251.92	0.000223	0.28	3.54	4.55	0.10
Af4_BMC	tratto 1	2.48											
				Lat Struct									
Af4_BMC	tratto 1	2	200-1 prog	2.16	250.22	252.27		252.27	0.000126	0.28	8.13	7.94	0.08
Af4_BMC	tratto 1	2	30-1 prog	3.10	250.22	251.87		251.89	0.000945	0.63	5.02	7.76	0.22
Af4_BMC	tratto 1	1.88											
				Lat Struct									
Af4_BMC	tratto 1	1.1	200-1 prog	-2.05	249.88	252.26		252.26	0.000047	-0.21	10.93	9.34	0.05
Af4_BMC	tratto 1	1.1	30-1 prog	3.05	249.88	251.82		251.83	0.000259	0.43	7.43	6.55	0.12
Af4_BMC	tratto 1	1	200-1 prog	-2.05	249.88	252.26		252.26	0.000047	-0.21	10.93	9.34	0.05
Af4_BMC	tratto 1	1	30-1 prog	3.05	249.88	251.82		251.83	0.000259	0.43	7.43	6.55	0.12
Af3_BMC	tratto 1	15	200-1 prog	0.54	261.63	262.03		262.12	0.026465	1.33	0.40	1.55	0.83
Af3_BMC	tratto 1	15	30-1 prog	0.32	261.63	261.94		262.01	0.024514	1.13	0.28	1.34	0.78
Af3_BMC	tratto 1	14.9	200-1 prog	0.54	261.63	261.99	261.99	262.11	0.038455	1.53	0.35	1.46	0.99
Af3_BMC	tratto 1	14.9	30-1 prog	0.32	261.63	261.91	261.91	262.00	0.040330	1.35	0.24	1.26	0.99
Af3_BMC	tratto 1	14.89											
				Lat Struct									
Af3_BMC	tratto 1	14.88											
				Lat Struct									
Af3_BMC	tratto 1	14	200-1 prog	0.84	254.09	254.93		254.95	0.002898	0.64	1.31	2.84	0.30
Af3_BMC	tratto 1	14	30-1 prog	0.47	254.09	254.85		254.86	0.001331	0.42	1.12	2.53	0.20
Af3_BMC	tratto 1	13.88											
				Lat Struct									
Af3_BMC	tratto 1	13	200-1 prog	0.75	253.59	254.89		254.89	0.000371	0.30	2.48	2.89	0.10
Af3_BMC	tratto 1	13	30-1 prog	0.57	253.59	254.83		254.83	0.000260	0.25	2.31	2.89	0.09
Af3_BMC	tratto 1	12.5											
				Culvert									
Af3_BMC	tratto 1	12	200-1 prog	0.75	253.59	254.08		254.20	0.028363	1.52	0.49	1.55	0.86
Af3_BMC	tratto 1	12	30-1 prog	0.57	253.59	254.01		254.12	0.031296	1.47	0.39	1.40	0.89
Af3_BMC	tratto 1	11.89											
				Lat Struct									
Af3_BMC	tratto 1	11.88											
				Lat Struct									
Af3_BMC	tratto 1	11	200-1 prog	0.76	252.92	253.77		253.78	0.001398	0.49	1.56	2.94	0.21
Af3_BMC	tratto 1	11	30-1 prog	0.58	252.92	253.66		253.67	0.001515	0.47	1.24	2.69	0.22
Af3_BMC	tratto 1	10.1	200-1 prog	1.83	252.18	253.62		253.63	0.000752	0.49	3.78	4.04	0.16
Af3_BMC	tratto 1	10.1	30-1 prog	1.39	252.18	253.52		253.52	0.000605	0.41	3.37	4.04	0.14
Af3_BMC	tratto 1	10	200-1 prog	1.80	252.18	253.62		253.63	0.000728	0.48	3.78	4.04	0.16
Af3_BMC	tratto 1	10	30-1 prog	1.39	252.18	253.51		253.52	0.000606	0.41	3.36	4.04	0.14
Af3_BMC	tratto 1	9.5	200-1 prog	1.77	252.18	253.61		253.62	0.000716	0.47	3.74	4.04	0.16
Af3_BMC	tratto 1	9.5	30-1 prog	1.38	252.18	253.51		253.52	0.000607	0.41	3.34	4.04	0.15
Af3_BMC	tratto 2	9	200-1 prog	1.74	252.08	253.61		253.62	0.000385	0.37	4.73	4.92	0.12
Af3_BMC	tratto 2	9	30-1 prog	1.23	252.08	253.51		253.51	0.000266	0.29	4.24	4.92	0.10
Af3_BMC	tratto 2	8.99	200-1 prog	1.74	252.08	253.61		253.62	0.000386	0.37	4.73	4.92	0.12
Af3_BMC	tratto 2	8.99	30-1 prog	1.23	252.08	253.51		253.51	0.000266	0.29	4.24	4.92	0.10
Af3_BMC	tratto 2	8.89											
				Lat Struct									
Af3_BMC	tratto 2	8.88											
				Lat Struct									
Af3_BMC	tratto 2	8	200-1 prog	-1.01	252.15	253.61		253.61	0.000283	-0.29	3.47	3.75	0.10
Af3_BMC	tratto 2	8	30-1 prog	-0.43	252.15	253.50		253.50	0.000072	-0.14	3.07	3.75	0.05
Af3_BMC	tratto 2	7	200-1 prog	1.49	252.06	253.60		253.61	0.000470	0.46	3.72	4.65	0.13
Af3_BMC	tratto 2	7	30-1 prog	0.84	252.06	253.49		253.50	0.000217	0.29	3.24	4.52	0.09
Af3_BMC	tratto 2	6.5											
				Culvert									
Af3_BMC	tratto 2	6	200-1 prog	1.48	252.06	253.21		253.24	0.002191	0.77	2.06	3.65	0.26
Af3_BMC	tratto 2	6	30-1 prog	0.84	252.06	253.03		253.05	0.001633	0.57	1.50	2.71	0.22
Af3_BMC	tratto 2	5.9	200-1 prog	1.48	252.06	253.20		253.23	0.002215	0.77	2.05	3.64	0.26
Af3_BMC	tratto 2	5.9	30-1 prog	0.84	252.06	253.03		253.05	0.001648	0.57	1.49	2.70	0.22
Af3_BMC	tratto 2	5.89											
				Lat Struct									
Af3_BMC	tratto 2	5.88											
				Lat Struct									
Af3_BMC	tratto 2	5	200-1 prog	1.49	252.01	252.97		253.03	0.006923	1.03	1.45	2.73	0.45
Af3_BMC	tratto 2	5	30-1 prog	0.83	252.01	252.92		252.94	0.002897	0.64	1.31	2.66	0.29
Af3_BMC	tratto 2	4	200-1 prog	-1.73	251.13	252.17		252.21	0.003531	-0.82	2.11	3.52	0.34
Af3_BMC	tratto 2	4	30-1 prog	0.87	251.13	251.98		251.99	0.002921	0.62	1.41	3.34	0.30
Af3_BMC	tratto 2	3	200-1 prog	4.51	250.47	252.39		252.43	0.001389	0.86	5.25	3.21	0.21
Af3_BMC	tratto 2	3	30-1 prog	-0.09	250.47	251.82		251.82	0.000002	-0.02	3.42	3.21	0.01
Af3_BMC	tratto 2	2.95											
				Culvert									
Af3_BMC	tratto 2	2.9	200-1 prog	4.51	250.35	252.28		252.32	0.001326	0.84	5.36	3.21	0.21



River	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
Af3_BMC	tratto 2	2.9	30-1 prog	-0.09	250.35	251.82		251.82	0.000001	-0.02	3.90	3.21	0.01
Af3_BMC	tratto 2	2.89	200-1 prog	4.51	250.35	252.28	251.16	252.32	0.001326	0.84	5.36	3.21	0.21
Af3_BMC	tratto 2	2.89	30-1 prog	-0.09	250.35	251.82	250.42	251.82	0.000001	0.00	3.90	3.21	0.00
Af3_BMC	tratto 2	2.85		Inl Struct									
Af3_BMC	tratto 2	2.81	200-1 prog	4.51	250.35	252.26		252.30	0.001364	0.85	5.31	3.21	0.21
Af3_BMC	tratto 2	2.81	30-1 prog	-0.09	250.35	251.82		251.82	0.000001	-0.02	3.90	3.21	0.01
Af3_BMC	tratto 2	2.8	200-1 prog	4.51	250.35	252.26		252.30	0.001364	0.85	5.31	3.21	0.21
Af3_BMC	tratto 2	2.8	30-1 prog	-0.09	250.35	251.82		251.82	0.000001	-0.02	3.90	3.21	0.01
Af3_BMC	tratto 3	2	200-1 prog	2.45	250.01	252.26		252.27	0.000075	0.26	10.03	8.03	0.06
Af3_BMC	tratto 3	2	30-1 prog	2.96	250.01	251.82		251.83	0.000265	0.43	7.12	6.10	0.12
Af3_BMC	tratto 3	1.9	200-1 prog	2.45	250.01	252.26		252.27	0.000075	0.26	10.03	8.03	0.06
Af3_BMC	tratto 3	1.9	30-1 prog	2.96	250.01	251.82		251.83	0.000266	0.43	7.12	6.10	0.12
Af3_BMC	tratto 3	1.88		Lat Struct									
Af3_BMC	tratto 3	1.1	200-1 prog	2.14	249.80	252.26		252.26	0.000042	0.23	10.87	7.03	0.05
Af3_BMC	tratto 3	1.1	30-1 prog	2.95	249.80	251.81		251.81	0.000211	0.44	7.68	6.85	0.11
Af3_BMC	tratto 3	1	200-1 prog	2.14	249.80	252.26		252.26	0.000042	0.23	10.87	7.03	0.05
Af3_BMC	tratto 3	1	30-1 prog	2.95	249.80	251.81		251.81	0.000211	0.44	7.68	6.85	0.11
Af2_BMC	tratto 1	6	200-1 prog	2.98	253.93	254.87		255.06	0.017599	1.92	1.55	2.89	0.84
Af2_BMC	tratto 1	6	30-1 prog	1.74	253.93	254.68		254.82	0.016593	1.66	1.05	2.36	0.79
Af2_BMC	tratto 1	5.9	200-1 prog	2.98	253.93	254.84		255.05	0.021060	2.06	1.45	2.79	0.91
Af2_BMC	tratto 1	5.9	30-1 prog	1.74	253.93	254.65		254.81	0.020773	1.80	0.97	2.26	0.88
Af2_BMC	tratto 1	5.89		Lat Struct									
Af2_BMC	tratto 1	5.88		Lat Struct									
Af2_BMC	tratto 1	5	200-1 prog	3.15	252.54	253.56		253.64	0.006924	1.35	2.82	8.74	0.55
Af2_BMC	tratto 1	5	30-1 prog	1.90	252.54	253.48		253.53	0.004937	1.04	2.18	7.31	0.45
Af2_BMC	tratto 1	4	200-1 prog	-0.30	252.36	253.15		253.15	0.000107	-0.15	2.41	8.21	0.07
Af2_BMC	tratto 1	4	30-1 prog	0.18	252.36	253.14		253.14	0.000041	0.09	2.32	8.00	0.04
Af2_BMC	tratto 1	3	200-1 prog	0.35	252.08	253.22		253.22	0.000112	0.16	2.26	5.69	0.07
Af2_BMC	tratto 1	3	30-1 prog	0.15	252.08	253.14		253.14	0.000028	0.08	1.94	3.79	0.03
Af2_BMC	tratto 1	2.5		Culvert									
Af2_BMC	tratto 1	2	200-1 prog	0.15	252.32	253.11		253.11	0.000118	0.13	1.15	3.07	0.07
Af2_BMC	tratto 1	2	30-1 prog	0.15	252.32	253.11		253.11	0.000115	0.13	1.15	3.08	0.07
Af2_BMC	tratto 1	1	200-1 prog	0.34	252.34	253.06		253.06	0.000901	0.25	1.36	3.49	0.13
Af2_BMC	tratto 1	1	30-1 prog	0.35	252.34	253.06		253.06	0.001004	0.26	1.34	3.46	0.13
Af2_BMC	sotto fabbrica	3	200-1 prog	0.10	262.17	262.37		262.41	0.018224	0.84	0.12	1.10	0.81
Af2_BMC	sotto fabbrica	3	30-1 prog	0.10	262.17	262.37		262.41	0.018224	0.84	0.12	1.10	0.81
Af2_BMC	sotto fabbrica	2.9	200-1 prog	0.10	262.17	262.35	262.36	262.41	0.037937	1.11	0.09	0.95	1.14
Af2_BMC	sotto fabbrica	2.9	30-1 prog	0.10	262.17	262.35	262.36	262.41	0.037937	1.11	0.09	0.95	1.14
Af2_BMC	sotto fabbrica	2.88		Lat Struct									
Af2_BMC	sotto fabbrica	2	200-1 prog	0.24	256.17	256.99		256.99	0.000025	0.10	3.01	6.84	0.04
Af2_BMC	sotto fabbrica	2	30-1 prog	0.13	256.17	256.95		256.95	0.000009	0.06	2.77	6.84	0.02
Af2_BMC	sotto fabbrica	1.5		Culvert									
Af2_BMC	sotto fabbrica	1.1	200-1 prog	0.24	254.61	254.92		254.94	0.005760	0.71	0.34	1.56	0.49
Af2_BMC	sotto fabbrica	1.1	30-1 prog	0.13	254.61	254.83		254.85	0.005623	0.59	0.22	1.34	0.47
Af2_BMC	sotto fabbrica	1	200-1 prog	0.25	254.61	254.90		254.93	0.006816	0.76	0.32	1.53	0.53
Af2_BMC	sotto fabbrica	1	30-1 prog	0.13	254.61	254.82		254.84	0.006914	0.64	0.20	1.32	0.52
Af2_BMC	sotto fabbrica	0.5	200-1 prog	0.24	254.41	254.70	254.62	254.73	0.006784	0.76	0.32	1.53	0.53
Af2_BMC	sotto fabbrica	0.5	30-1 prog	0.13	254.41	254.62	254.56	254.64	0.006885	0.63	0.20	1.32	0.51
Af2_BF	tratto 1	17	200-1 prog	1.09	262.58	263.15		263.21	0.015158	1.12	0.98	3.10	0.64
Af2_BF	tratto 1	17	30-1 prog	0.62	262.58	263.06		263.10	0.014108	0.89	0.70	3.10	0.60
Af2_BF	tratto 1	16.9	200-1 prog	1.09	262.58	263.09		263.19	0.029294	1.38	0.79	3.10	0.87
Af2_BF	tratto 1	16.9	30-1 prog	0.62	262.58	263.02		263.08	0.027999	1.10	0.56	3.10	0.83
Af2_BF	tratto 1	16.89		Lat Struct									
Af2_BF	tratto 1	16.88		Lat Struct									
Af2_BF	tratto 1	16	200-1 prog	0.33	259.14	259.58		259.61	0.008964	0.79	0.42	1.59	0.49
Af2_BF	tratto 1	16	30-1 prog	0.38	259.14	259.60		259.64	0.009664	0.84	0.46	1.64	0.51
Af2_BF	tratto 1	15.1	200-1 prog	0.47	258.46	259.41		259.42	0.000645	0.32	1.63	5.68	0.14
Af2_BF	tratto 1	15.1	30-1 prog	0.40	258.46	259.39		259.40	0.000539	0.29	1.52	5.29	0.13
Af2_BF	tratto 1	15	200-1 prog	0.47	258.46	259.41		259.42	0.000648	0.32	1.63	5.67	0.14
Af2_BF	tratto 1	15	30-1 prog	0.40	258.46	259.39		259.40	0.000541	0.29	1.52	5.27	0.13
Af2_BF	tratto 1	14.5		Culvert									
Af2_BF	tratto 1	14	200-1 prog	0.47	258.07	258.61	258.66	258.83	0.098604	2.08	0.23	0.84	1.28
Af2_BF	tratto 1	14	30-1 prog	0.40	258.07	258.58	258.63	258.78	0.096385	1.99	0.20	0.79	1.25
Af2_BF	tratto 1	13	200-1 prog	0.47	257.61	257.94	257.95	258.04	0.045633	1.45	0.33	1.80	1.09
Af2_BF	tratto 1	13	30-1 prog	0.40	257.61	257.91	257.92	258.01	0.047402	1.41	0.29	1.68	1.10

River	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
Af2_BF	tratto 1	12	200-1 prog	0.63	255.36	256.26		256.27	0.001874	0.52	1.22	2.33	0.23
Af2_BF	tratto 1	12	30-1 prog	0.48	255.36	256.16		256.17	0.001813	0.48	0.99	2.08	0.22
Af2_BF	tratto 1	11.89											
Af2_BF	tratto 1	11.88											
Af2_BF	tratto 1	11	200-1 prog	0.34	254.17	254.71		254.73	0.006832	0.73	0.46	1.33	0.40
Af2_BF	tratto 1	11	30-1 prog	0.30	254.17	254.68		254.71	0.006579	0.70	0.43	1.31	0.39
Af2_BF	tratto 1	10.48											
Af2_BF	tratto 1	10.1	200-1 prog	0.26	253.49	254.45		254.45	0.000175	0.16	1.64	3.59	0.07
Af2_BF	tratto 1	10.1	30-1 prog	0.22	253.49	254.44		254.44	0.000144	0.14	1.59	3.57	0.07
Af2_BF	tratto 1	10	200-1 prog	0.26	253.49	254.45		254.45	0.000216	0.16	1.64	3.59	0.07
Af2_BF	tratto 1	10	30-1 prog	0.22	253.49	254.44		254.44	0.000178	0.14	1.59	3.57	0.07
Af2_BF	tratto 1	9.5											
Af2_BF	tratto 1	9	200-1 prog	0.25	253.22	253.62		253.63	0.003362	0.46	0.55	1.96	0.28
Af2_BF	tratto 1	9	30-1 prog	0.22	253.22	253.59		253.60	0.003512	0.45	0.49	1.89	0.28
Af2_BF	tratto 1	8	200-1 prog	0.25	252.95	253.43		253.44	0.002584	0.43	0.59	1.84	0.24
Af2_BF	tratto 1	8	30-1 prog	0.22	252.95	253.40		253.41	0.002409	0.40	0.54	1.77	0.23
Af2_BF	tratto 1	7	200-1 prog	0.23	252.67	253.25		253.25	0.000681	0.23	0.99	3.04	0.13
Af2_BF	tratto 1	7	30-1 prog	0.21	252.67	253.24		253.24	0.000607	0.22	0.97	3.02	0.12
Af2_BF	tratto 1	6.89											
Af2_BF	tratto 1	6.88											
Af2_BF	tratto 1	6	200-1 prog	-0.58	251.79	252.67		252.67	0.001097	-0.36	1.76	6.84	0.17
Af2_BF	tratto 1	6	30-1 prog	0.05	251.79	252.51		252.51	0.000028	0.05	1.03	3.06	0.03
Af2_BF	tratto 1	5	200-1 prog	0.41	251.31	252.71		252.71	0.000047	0.13	3.12	3.11	0.04
Af2_BF	tratto 1	5	30-1 prog	-0.23	251.31	252.51		252.51	0.000028	-0.09	2.48	3.11	0.03
Af2_BF	tratto 1	4.95											
Af2_BF	tratto 1	4.9	200-1 prog	0.41	251.31	252.71		252.71	0.000047	0.13	3.11	3.11	0.04
Af2_BF	tratto 1	4.9	30-1 prog	-0.23	251.31	252.51		252.51	0.000028	-0.09	2.50	3.11	0.03
Af2_BF	tratto 1	4.89											
Af2_BF	tratto 1	4	200-1 prog	-1.58	251.19	252.70		252.70	0.000280	-0.35	4.49	4.13	0.11
Af2_BF	tratto 1	4	30-1 prog	-1.34	251.19	252.50		252.51	0.000355	-0.36	3.68	4.13	0.12
Af2_BF	tratto 1	3.89											
Af2_BF	tratto 1	3.88											
Af2_BF	tratto 1	3	200-1 prog	0.14	251.38	252.73		252.73	0.000002	0.03	4.76	5.77	0.01
Af2_BF	tratto 1	3	30-1 prog	0.49	251.38	252.53		252.53	0.000053	0.14	3.62	5.77	0.05
Af2_BF	tratto 1	2.5											
Af2_BF	tratto 1	2	200-1 prog	0.15	251.38	252.73		252.73	0.000002	0.03	4.76	5.77	0.01
Af2_BF	tratto 1	2	30-1 prog	0.49	251.38	252.52		252.52	0.000055	0.14	3.56	5.77	0.05
Af2_BF	tratto 1	1.89											
Af2_BF	tratto 1	1.88											
Af2_BF	tratto 1	1	200-1 prog	2.77	250.87	252.70		252.71	0.000298	0.41	7.03	7.15	0.12
Af2_BF	tratto 1	1	30-1 prog	1.20	250.87	252.51		252.51	0.000105	0.22	5.68	7.15	0.07
Af2_BF	tratto 1	0.95											
Af2_BF	tratto 1	0.9	200-1 prog	2.52	250.51	252.00		252.00	0.000412	0.36	6.96	11.03	0.15
Af2_BF	tratto 1	0.9	30-1 prog	0.42	250.51	251.77		251.77	0.000030	0.09	4.75	8.69	0.04
Af2_BF	tratto 1	0.8	200-1 prog	2.52	250.51	252.00		252.00	0.000412	0.36	6.96	11.03	0.15
Af2_BF	tratto 1	0.8	30-1 prog	0.42	250.51	251.77		251.77	0.000030	0.09	4.75	8.69	0.04
Af1_FM	tratto 1	8	200-1 prog	8.84	257.62	259.37		259.48	0.004192	1.49	5.93	5.50	0.46
Af1_FM	tratto 1	8	30-1 prog	4.84	257.62	258.96		259.04	0.004045	1.25	3.88	4.73	0.44
Af1_FM	tratto 1	7.9	200-1 prog	8.84	257.62	259.36		259.48	0.004249	1.50	5.90	5.49	0.46
Af1_FM	tratto 1	7.9	30-1 prog	4.84	257.62	258.96		259.04	0.004117	1.26	3.85	4.72	0.44
Af1_FM	tratto 1	7	200-1 prog	9.17	256.89	259.27		259.29	0.000476	0.64	14.23	8.96	0.16
Af1_FM	tratto 1	7	30-1 prog	5.01	256.89	258.86		258.87	0.000345	0.47	10.58	8.96	0.14
Af1_FM	tratto 1	6.5											
Af1_FM	tratto 1	6	200-1 prog	9.17	256.83	258.33		258.49	0.006810	1.76	5.22	5.79	0.59
Af1_FM	tratto 1	6	30-1 prog	5.01	256.83	258.00		258.11	0.006239	1.45	3.46	4.87	0.55
Af1_FM	tratto 1	5.88											
Af1_FM	tratto 1	5	200-1 prog	8.46	255.47	257.29		257.39	0.004165	1.47	6.23	10.53	0.45
Af1_FM	tratto 1	5	30-1 prog	5.58	255.47	257.16		257.23	0.002806	1.13	4.99	8.15	0.37
Af1_FM	tratto 1	4	200-1 prog	4.68	254.86	256.56		256.62	0.002856	1.12	4.52	8.47	0.35
Af1_FM	tratto 1	4	30-1 prog	4.48	254.86	256.55		256.61	0.002728	1.09	4.42	8.47	0.34
Af1_FM	tratto 1	3.1	200-1 prog	4.02	254.75	256.07		256.14	0.003870	1.16	3.45	4.46	0.42
Af1_FM	tratto 1	3.1	30-1 prog	3.97	254.75	256.06		256.13	0.003906	1.17	3.41	4.43	0.42
Af1_FM	tratto 1	3	200-1 prog	4.02	254.75	256.08	255.49	256.13	0.002999	0.98	4.10	4.72	0.34
Af1_FM	tratto 1	3	30-1 prog	3.97	254.75	256.07	255.49	256.12	0.003014	0.98	4.06	4.69	0.34

River	Reach	River Sta	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m <sup>3</sup> /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m <sup>2</sup> )	(m)	
Af1_FM	tratto 1	2.5		Bridge									
Af1_FM	tratto 1	2	200-1 prog	4.00	254.75	255.86		255.94	0.006293	1.29	3.10	4.15	0.48
Af1_FM	tratto 1	2	30-1 prog	3.97	254.75	255.84		255.93	0.006605	1.31	3.02	4.10	0.49
Af1_FM	tratto 1	1.89		Lat Struct									
Af1_FM	tratto 1	1.88		Lat Struct									
Af1_FM	tratto 1	1.1	200-1 prog	4.55	252.09	253.54		253.60	0.003986	1.13	4.03	4.45	0.38
Af1_FM	tratto 1	1.1	30-1 prog	4.29	252.09	253.51		253.57	0.003856	1.10	3.91	4.45	0.37
Af1_FM	tratto 1	1	200-1 prog	4.56	252.09	253.55		253.60	0.002641	0.96	5.39	9.51	0.32
Af1_FM	tratto 1	1	30-1 prog	4.29	252.09	253.52		253.57	0.002688	0.95	5.11	9.51	0.32
Af1_FM	tratto 1	0.5	200-1 prog	4.48	252.00	253.07		253.29	0.021210	2.08	2.15	3.50	0.85
Af1_FM	tratto 1	0.5	30-1 prog	4.28	252.00	253.02		253.26	0.023562	2.14	2.00	3.36	0.89
Af1_BMC	tratto 1	12	200-1 prog	0.90	253.46	255.07		255.07	0.000036	0.15	7.13	10.89	0.05
Af1_BMC	tratto 1	12	30-1 prog	0.54	253.46	254.95		254.95	0.000023	0.11	5.84	10.89	0.04
Af1_BMC	tratto 1	11.9	200-1 prog	0.90	253.46	255.07		255.07	0.000036	0.15	7.13	10.89	0.05
Af1_BMC	tratto 1	11.9	30-1 prog	0.54	253.46	254.95		254.95	0.000023	0.11	5.84	10.89	0.04
Af1_BMC	tratto 1	11.89		Lat Struct									
Af1_BMC	tratto 1	11.88		Lat Struct									
Af1_BMC	tratto 1	11.1	200-1 prog	-0.58	253.44	255.07		255.07	0.000027	-0.12	4.68	4.74	0.04
Af1_BMC	tratto 1	11.1	30-1 prog	-0.63	253.44	254.95		254.95	0.000048	-0.15	4.11	4.74	0.05
Af1_BMC	tratto 1	11	200-1 prog	1.44	253.44	255.06		255.06	0.000176	0.31	4.64	4.74	0.10
Af1_BMC	tratto 1	11	30-1 prog	1.00	253.44	254.94		254.95	0.000123	0.25	4.09	4.74	0.08
Af1_BMC	tratto 1	10.5		Culvert									
Af1_BMC	tratto 1	10	200-1 prog	1.50	253.51	254.28		254.36	0.006801	1.29	1.16	1.95	0.53
Af1_BMC	tratto 1	10	30-1 prog	1.00	253.51	254.15		254.21	0.005610	1.08	0.93	1.82	0.48
Af1_BMC	tratto 1	9	200-1 prog	1.48	253.29	253.92		254.05	0.012593	1.55	0.96	2.44	0.79
Af1_BMC	tratto 1	9	30-1 prog	1.00	253.29	253.82		253.92	0.012574	1.40	0.72	2.14	0.77
Af1_BMC	tratto 1	8.88		Lat Struct									
Af1_BMC	tratto 1	8	200-1 prog	1.21	252.20	253.42		253.43	0.000924	0.55	2.21	3.50	0.22
Af1_BMC	tratto 1	8	30-1 prog	1.00	252.20	253.27		253.29	0.001281	0.58	1.72	3.22	0.25
Af1_BMC	tratto 1	7.5		Culvert									
Af1_BMC	tratto 1	7	200-1 prog	1.20	251.90	252.87		252.90	0.002207	0.76	1.58	3.09	0.34
Af1_BMC	tratto 1	7	30-1 prog	0.99	251.90	252.80		252.82	0.002100	0.72	1.38	2.78	0.33
Af1_BMC	tratto 1	6	200-1 prog	1.80	251.68	252.78		252.80	0.001061	0.64	3.26	9.88	0.25
Af1_BMC	tratto 1	6	30-1 prog	1.34	251.68	252.73		252.74	0.000850	0.55	2.71	9.80	0.22
Af1_BMC	tratto 1	5	200-1 prog	1.91	251.59	252.77		252.78	0.001163	0.50	4.03	6.81	0.18
Af1_BMC	tratto 1	5	30-1 prog	1.41	251.59	252.72		252.73	0.000823	0.40	3.69	6.81	0.15
Af1_BMC	tratto 1	4.88		Lat Struct									
Af1_BMC	tratto 1	4	200-1 prog	0.51	251.67	252.71		252.72	0.000462	0.26	2.14	4.99	0.11
Af1_BMC	tratto 1	4	30-1 prog	0.48	251.67	252.67		252.68	0.000534	0.27	1.93	4.90	0.12
Af1_BMC	tratto 1	3	200-1 prog	0.78	251.48	252.63		252.64	0.000928	0.36	2.35	8.09	0.16
Af1_BMC	tratto 1	3	30-1 prog	0.64	251.48	252.59		252.60	0.000823	0.32	2.06	7.02	0.15
Af1_BMC	tratto 1	2.5		Culvert									
Af1_BMC	tratto 1	2	200-1 prog	0.78	251.48	252.39		252.41	0.003492	0.62	1.25	2.60	0.29
Af1_BMC	tratto 1	2	30-1 prog	0.64	251.48	252.33		252.35	0.003019	0.57	1.12	2.36	0.26
Af1_BMC	tratto 1	1.89		Lat Struct									
Af1_BMC	tratto 1	1.1	200-1 prog	-2.56	250.87	252.26		252.31	0.005752	-0.99	2.58	3.18	0.35
Af1_BMC	tratto 1	1.1	30-1 prog	0.34	250.87	252.02		252.03	0.000286	0.19	1.82	3.18	0.08
Af1_BMC	tratto 1	1	200-1 prog	-2.56	250.87	252.27		252.32	0.005552	-0.98	2.62	3.18	0.34
Af1_BMC	tratto 1	1	30-1 prog	0.34	250.87	252.02		252.03	0.000286	0.19	1.82	3.18	0.08
Af1_BMC	monte	3	200-1 prog	0.20	255.28	257.23		257.23	0.000000	0.01	31.61	20.41	0.00
Af1_BMC	monte	3	30-1 prog	0.10	255.28	255.87		255.87	0.000043	0.08	1.54	8.27	0.05
Af1_BMC	monte	2.9	200-1 prog	0.10	255.28	256.02		256.02	0.000001	0.02	6.89	20.41	0.01
Af1_BMC	monte	2.9	30-1 prog	0.10	255.28	255.87		255.87	0.000042	0.08	1.54	8.27	0.05
Af1_BMC	monte	2	200-1 prog	-2.32	254.95	256.15		256.16	0.000758	-0.65	4.47	8.45	0.22
Af1_BMC	monte	2	30-1 prog	0.79	254.95	255.58		255.63	0.006170	1.00	0.79	2.29	0.55
Af1_BMC	monte	1.88		Lat Struct									
Af1_BMC	monte	1.1	200-1 prog	-5.52	254.46	255.68		255.75	0.002727	-1.28	5.25	8.17	0.43
Af1_BMC	monte	1.1	30-1 prog	0.61	254.46	255.35		255.36	0.000276	0.30	2.53	8.17	0.13
Af1_BMC	monte	1	200-1 prog	-5.52	254.46	255.69		255.75	0.002636	-1.27	5.30	8.17	0.42
Af1_BMC	monte	1	30-1 prog	0.62	254.46	255.35		255.35	0.000287	0.31	2.53	8.17	0.13
Af1_BMC	monte	0.75		Culvert									
Af1_BMC	monte	0.5	200-1 prog	0.68	253.46	254.60		254.61	0.000319	0.31	2.30	6.70	0.13
Af1_BMC	monte	0.5	30-1 prog	0.62	253.46	254.60		254.61	0.000267	0.28	2.28	6.70	0.12
Af1_BMC	monte	0.1	200-1 prog	0.03	253.46	254.60	253.58	254.60	0.000001	0.01	2.27	6.69	0.01

River	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
Af1_BMC	monte	0.1	30-1 prog	0.03	253.46	254.60	253.58	254.60	0.000001	0.01	2.27	6.69	0.01
Af1_BMC	campo FV	7.1	200-1 prog	3.55	263.13	264.18		264.22	0.002654	1.08	4.67	14.00	0.40
Af1_BMC	campo FV	7.1	30-1 prog	2.15	263.13	264.08		264.11	0.002201	0.90	3.40	12.45	0.36
Af1_BMC	campo FV	7	200-1 prog	3.55	263.10	264.16		264.22	0.005131	1.31	3.79	13.67	0.52
Af1_BMC	campo FV	7	30-1 prog	2.15	263.10	264.05		264.11	0.005538	1.23	2.28	9.08	0.52
Af1_BMC	campo FV	6.75											
Af1_BMC	campo FV	6.5*	200-1 prog	3.55	260.52	261.31	261.51	261.86	0.041983	3.32	1.16	4.96	1.58
Af1_BMC	campo FV	6.5*	30-1 prog	2.15	260.52	261.18	261.36	261.60	0.041363	2.86	0.75	2.10	1.52
Af1_BMC	campo FV	6	200-1 prog	3.54	257.94	258.72	258.66	259.16	0.028177	2.94	1.24	4.24	1.42
Af1_BMC	campo FV	6	30-1 prog	2.13	257.94	258.58	258.68	258.92	0.028516	2.55	0.83	2.38	1.38
Af1_BMC	campo FV	5	200-1 prog	3.53	256.30	257.02	257.16	257.38	0.021434	2.66	1.39	5.05	1.28
Af1_BMC	campo FV	5	30-1 prog	2.13	256.30	256.91	256.96	257.15	0.020008	2.18	0.98	2.84	1.18
Af1_BMC	campo FV	4.89											
Af1_BMC	campo FV	4.88											
Af1_BMC	campo FV	4	200-1 prog	2.47	255.03	255.70		255.73	0.002458	1.03	3.02	8.19	0.44
Af1_BMC	campo FV	4	30-1 prog	1.88	255.03	255.64		255.67	0.002519	0.96	2.52	8.19	0.44
Af1_BMC	campo FV	3	200-1 prog	2.46	254.94	255.66	255.69	255.84	0.013167	1.89	1.38	5.31	0.99
Af1_BMC	campo FV	3	30-1 prog	1.88	254.94	255.60	255.61	255.76	0.013016	1.74	1.10	4.11	0.96
Af1_BMC	campo FV	2	200-1 prog	2.40	254.73	255.48		255.59	0.009886	1.59	1.77	6.28	0.73
Af1_BMC	campo FV	2	30-1 prog	1.88	254.73	255.41		255.52	0.010952	1.55	1.37	4.52	0.75
Af1_BMC	campo FV	1	200-1 prog	2.39	254.25	255.30		255.33	0.001798	0.88	3.32	7.11	0.33
Af1_BMC	campo FV	1	30-1 prog	1.87	254.25	255.24		255.27	0.001596	0.79	2.93	7.11	0.31
Af1_BMC	campo FV	0.75											
Af1_BMC	campo FV	0.5	200-1 prog	2.33	253.44	254.90		254.92	0.000767	0.60	3.90	4.74	0.21
Af1_BMC	campo FV	0.5	30-1 prog	1.87	253.44	254.51		254.54	0.002495	0.87	2.15	3.75	0.37
Af1_BMC	campo FV	0.4	200-1 prog	0.10	253.44	254.90	253.61	254.90	0.000001	0.03	3.89	4.74	0.01
Af1_BMC	campo FV	0.4	30-1 prog	0.10	253.44	254.50	253.61	254.50	0.000007	0.05	2.13	3.73	0.02
Af1_BF	tratto 1	7	200-1 prog	0.90	256.19	257.16		257.16	0.000603	0.34	2.97	7.54	0.14
Af1_BF	tratto 1	7	30-1 prog	0.98	256.19	257.00		257.02	0.003104	0.65	1.74	7.53	0.31
Af1_BF	tratto 1	6.9	200-1 prog	0.78	256.19	257.16		257.17	0.000998	0.43	1.81	3.00	0.18
Af1_BF	tratto 1	6.9	30-1 prog	0.98	256.19	256.99		257.02	0.004100	0.75	1.31	2.98	0.36
Af1_BF	tratto 1	6.89											
Af1_BF	tratto 1	6	200-1 prog	0.57	256.14	257.14		257.15	0.000359	0.27	2.12	3.29	0.11
Af1_BF	tratto 1	6	30-1 prog	0.47	256.14	256.95		256.95	0.000687	0.32	1.48	3.16	0.15
Af1_BF	tratto 1	5.5											
Af1_BF	tratto 1	5	200-1 prog	0.56	256.14	256.85		256.86	0.001913	0.48	1.18	3.01	0.24
Af1_BF	tratto 1	5	30-1 prog	0.38	256.14	256.69		256.70	0.003413	0.53	0.72	2.48	0.31
Af1_BF	tratto 1	4.89											
Af1_BF	tratto 1	4.88											
Af1_BF	tratto 1	4	200-1 prog	-0.75	255.78	256.82		256.83	0.000957	-0.41	1.80	2.76	0.16
Af1_BF	tratto 1	4	30-1 prog	-0.65	255.78	256.60		256.61	0.002311	-0.54	1.19	2.62	0.26
Af1_BF	tratto 1	3	200-1 prog	0.61	255.73	256.85		256.85	0.000139	0.20	3.11	3.07	0.06
Af1_BF	tratto 1	3	30-1 prog	0.50	255.73	256.65		256.65	0.000174	0.20	2.50	3.07	0.07
Af1_BF	tratto 1	2.5											
Af1_BF	tratto 1	2	200-1 prog	0.60	255.73	256.01		256.07	0.021025	1.06	0.56	2.79	0.76
Af1_BF	tratto 1	2	30-1 prog	0.50	255.73	255.98		256.04	0.024285	1.05	0.47	2.69	0.80
Af1_BF	tratto 1	1.5											
Af1_BF	tratto 1	1.1	200-1 prog	0.55	254.13	254.93		254.94	0.002308	0.52	1.04	2.50	0.26
Af1_BF	tratto 1	1.1	30-1 prog	0.49	254.13	254.92		254.93	0.001922	0.48	1.03	2.48	0.24
Af1_BF	tratto 1	1	200-1 prog	0.54	254.13	254.92		254.94	0.004123	0.52	1.04	2.49	0.26
Af1_BF	tratto 1	1	30-1 prog	0.49	254.13	254.92		254.93	0.003480	0.48	1.02	2.47	0.24

HEC-RAS Profile: Max WS

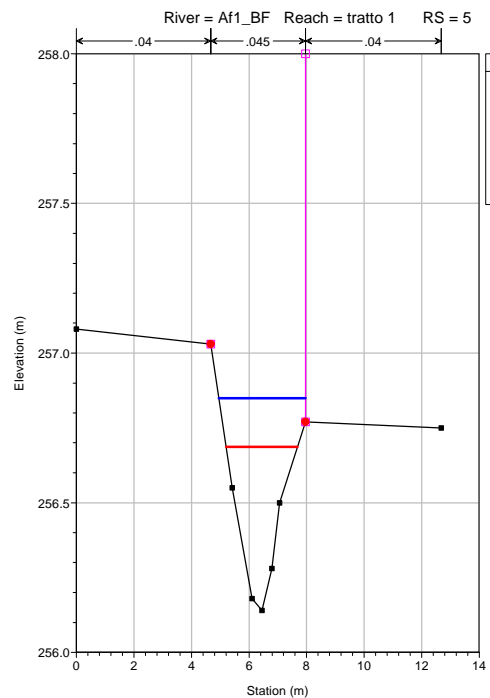
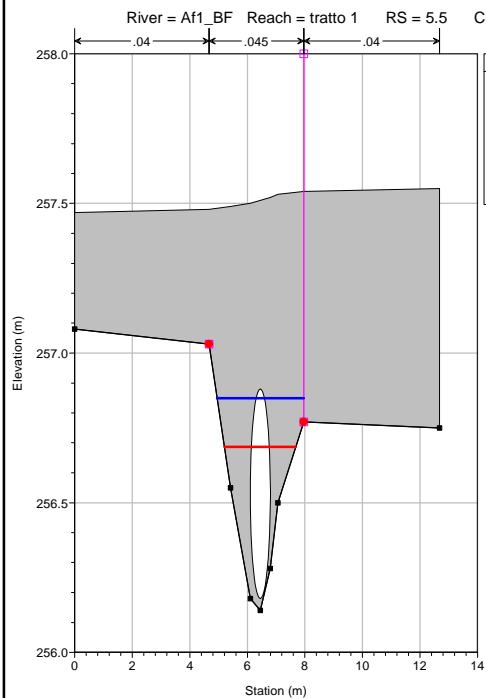
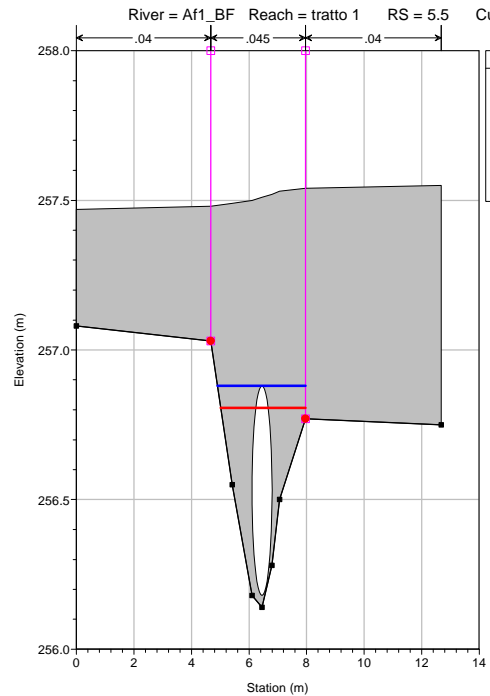
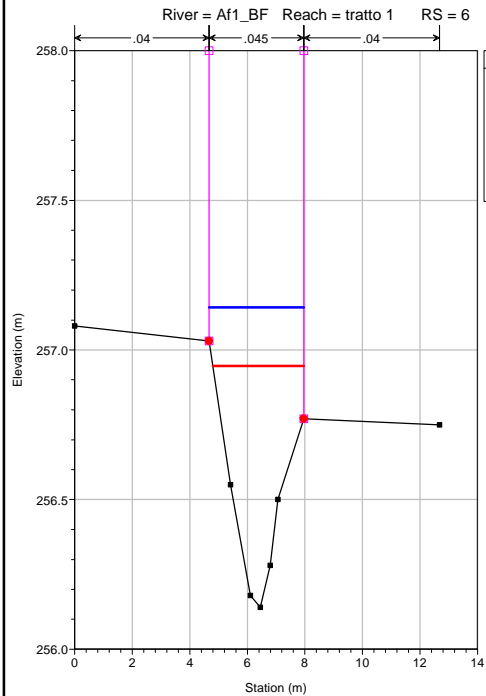
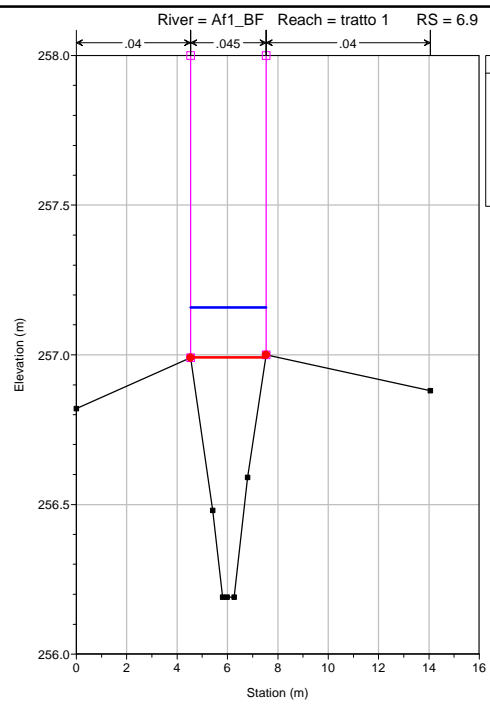
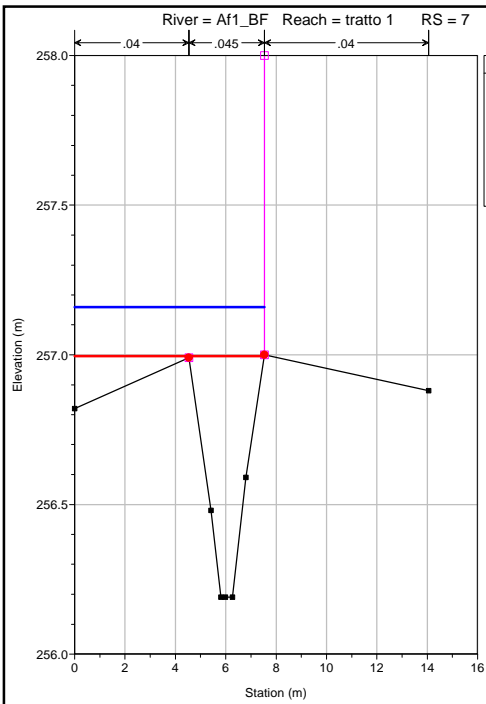
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
ape A	200-1 prog	252.27	251.10	46.75	22.38	12.05
ape A	30-1 prog	251.86	251.10	12.90	12.65	4.30
ape AA	200-1 prog	259.64	259.30	0.47	2.01	0.34
ape AA	30-1 prog	259.53	259.30	0.16	2.01	0.11
ape B	200-1 prog	252.28	251.20	34.40	17.52	8.94
ape B	30-1 prog	251.88	251.20	10.34	10.05	2.91
ape BB	200-1 prog	254.61	254.00	0.86	9.23	2.69
ape BB	30-1 prog	254.55	254.00	0.97	9.23	2.07
ape C	200-1 prog	254.96	254.57	0.00	0.15	0.06
ape C	30-1 prog	254.94	254.57	0.00	0.15	0.06
ape CC	200-1 prog	259.07	259.30	-0.57	0.30	-0.07
ape CC	30-1 prog	259.07	259.30	-1.57	0.30	-0.07
ape D	200-1 prog	255.79	255.20	3.17	0.65	0.22
ape D	30-1 prog	255.73	255.20	1.50	0.65	0.18
ape DD	200-1 prog	256.76	255.80	1.51	6.28	2.45
ape DD	30-1 prog	256.60	255.80	2.18	6.28	1.40
ape E	200-1 prog	253.70	253.30	0.19	0.08	0.03
ape E	30-1 prog	253.60	253.30	0.09	0.08	0.02
ape EE	200-1 prog	255.53	255.00	1.61	14.48	4.25
ape EE	30-1 prog	255.32	255.00	1.06	14.48	1.18
ape F	200-1 prog	253.60	253.00	0.65	3.18	0.55
ape F	30-1 prog	253.50	253.00	0.07	0.70	0.22
ape FF	200-1 prog	252.76	252.60	0.02	0.41	0.06
ape FF	30-1 prog	252.73	252.60	0.00	0.41	0.05
ape G	200-1 prog	253.61	252.60	3.95	14.27	2.61
ape G	30-1 prog	253.51	252.60	0.43	14.27	1.15
ape GG	200-1 prog	254.22	253.30	0.72	5.96	1.48
ape GG	30-1 prog	253.86	253.30	0.06	2.18	0.23
ape H	200-1 prog	257.22	256.60	3.44	0.41	0.09
ape H	30-1 prog	257.14	256.60	1.63	0.41	0.06
ape HH	200-1 prog	252.72	252.00	3.57	23.48	8.54
ape HH	30-1 prog	252.52	252.00	1.92	15.51	4.51
ape I	200-1 prog	253.47	253.20	0.04	0.49	0.13
ape I	30-1 prog	253.38	253.20	0.12	0.49	0.09
ape II	200-1 prog	252.37	250.40	0.21	8.13	1.30
ape II	30-1 prog	252.25	250.40	0.06	2.10	0.59
ape J	200-1 prog	257.15	256.40	0.28	10.52	2.19
ape J	30-1 prog	256.90	256.40	0.51	4.87	0.68
ape K	200-1 prog	256.83	255.80	0.21	10.10	2.93
ape K	30-1 prog	256.62	255.80	3.43	5.59	1.59
ape L	200-1 prog	253.05	252.30	1.87	17.04	4.44
ape L	30-1 prog	252.92	252.30	1.99	17.04	2.23

HEC-RAS Profile: Max WS (Continued)

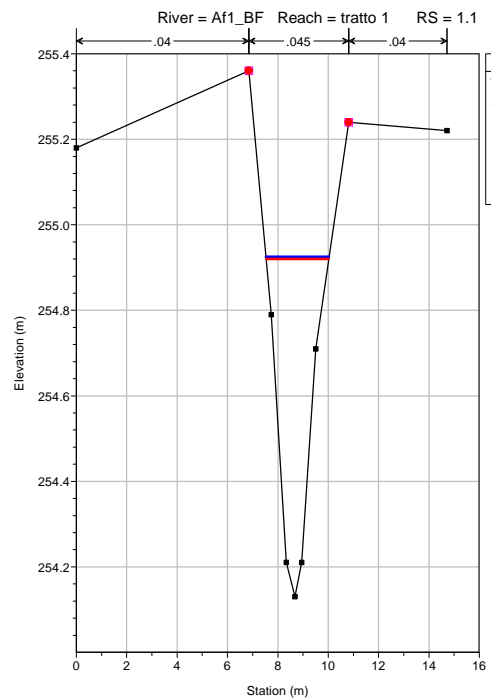
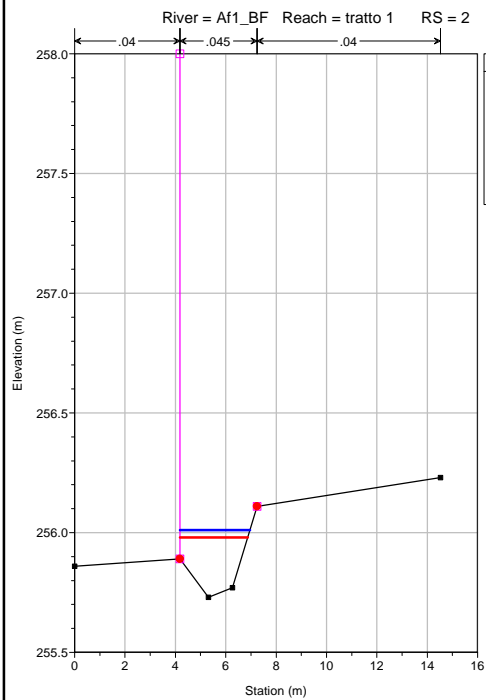
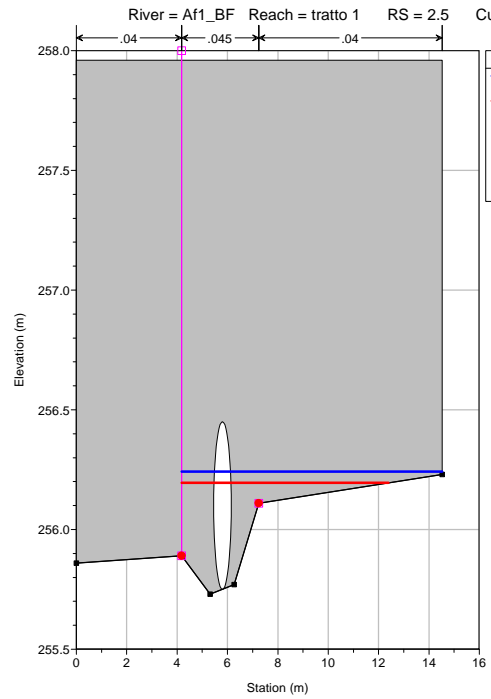
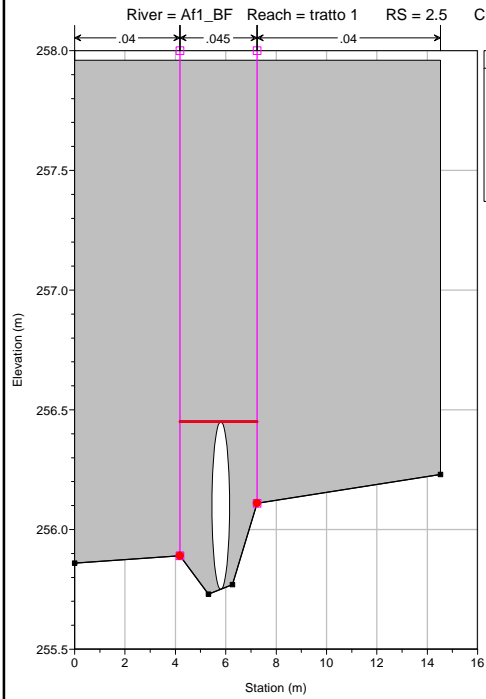
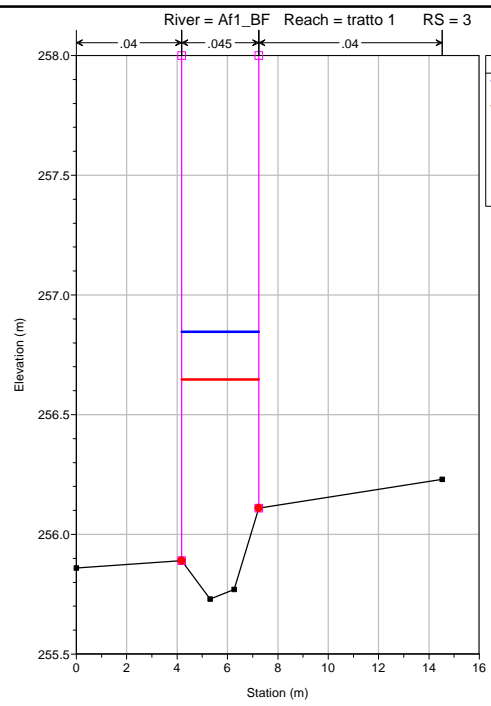
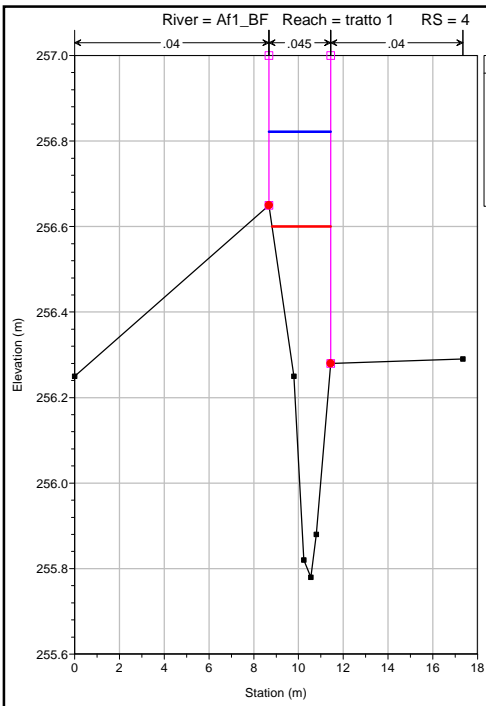
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
ape LL	200-1 prog	252.23	250.00	10.08	32.21	19.38
ape LL	30-1 prog	251.13	250.00	0.19	2.80	0.10
ape M	200-1 prog	252.37	251.40	2.25	18.38	5.03
ape M	30-1 prog	252.23	251.40	0.65	10.63	3.00
ape MM	200-1 prog	250.99	250.90	0.20	3.71	0.35
ape MM	30-1 prog	250.90	250.90	0.00	3.71	0.00
ape N	200-1 prog	252.52	251.90	0.03	0.37	0.10
ape N	30-1 prog	252.36	251.90	0.01	0.37	0.04
ape NN	200-1 prog	250.59	248.90	55.75	36.35	21.73
ape NN	30-1 prog	249.34	248.90	0.27	2.75	0.37
ape O	200-1 prog	252.02	251.10	4.50	28.55	7.92
ape O	30-1 prog	251.43	251.10	0.28	6.89	0.37
ape OO	200-1 prog	255.10	255.10	0.00	0.11	0.00
ape OO	30-1 prog	255.10	255.10	0.00	0.11	0.00
ape P	200-1 prog	252.26	250.60	11.97	10.06	10.70
ape P	30-1 prog	251.85	250.60	9.53	9.26	6.72
ape PP	200-1 prog	254.59	254.00	0.45	4.76	1.21
ape PP	30-1 prog	254.45	254.00	0.23	4.76	0.52
ape Q	200-1 prog	255.63	255.30	2.37	3.42	0.31
ape Q	30-1 prog	255.48	255.30	0.32	0.71	0.13
ape QQ	200-1 prog	252.16	251.60	0.25	8.13	1.47
ape QQ	30-1 prog	252.09	251.60	0.33	8.13	0.95
ape RR	200-1 prog	253.80	253.60	0.04	2.92	0.09
ape RR	30-1 prog	253.74	253.60	0.01	0.43	0.06
ape S	200-1 prog	253.87	253.40	0.98	3.87	0.36
ape S	30-1 prog	253.78	253.40	0.20	0.27	0.08
ape SS	200-1 prog	252.07	251.80	0.45	9.77	0.76
ape SS	30-1 prog	251.98	251.80	0.05	0.34	0.06
ape T	200-1 prog	254.95	254.60	0.05	1.55	0.40
ape T	30-1 prog	254.84	254.60	0.07	1.55	0.23
ape TT	200-1 prog	251.18	250.80	0.02	3.61	0.45
ape TT	30-1 prog	251.12	250.80	0.01	3.61	0.21
ape U	200-1 prog	253.78	252.60	1.52	7.28	3.47
ape U	30-1 prog	253.68	252.60	1.24	7.28	2.70
ape UU	200-1 prog	249.91	249.50	0.21	5.24	0.37
ape UU	30-1 prog	249.50	249.50	0.00	0.04	0.00
ape V	200-1 prog	253.63	252.40	0.29	6.66	3.12
ape V	30-1 prog	253.47	252.40	0.52	4.65	2.15
ape VV	200-1 prog	249.62	249.50	0.79	13.39	1.65
ape VV	30-1 prog	249.50	249.50	0.00	13.39	0.00
ape W	200-1 prog	252.84	252.00	0.30	1.50	0.98

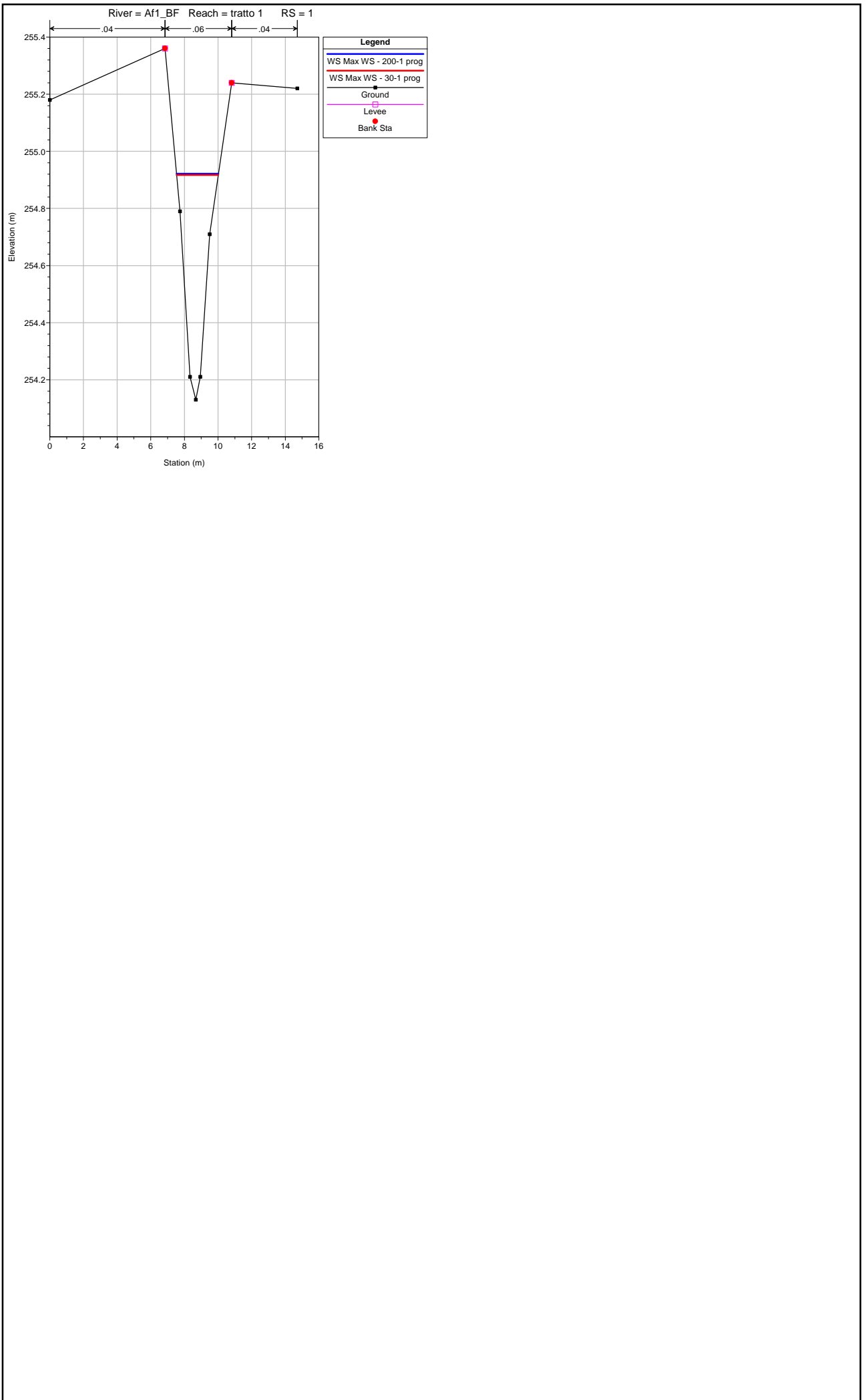
## HEC-RAS Profile: Max WS (Continued)

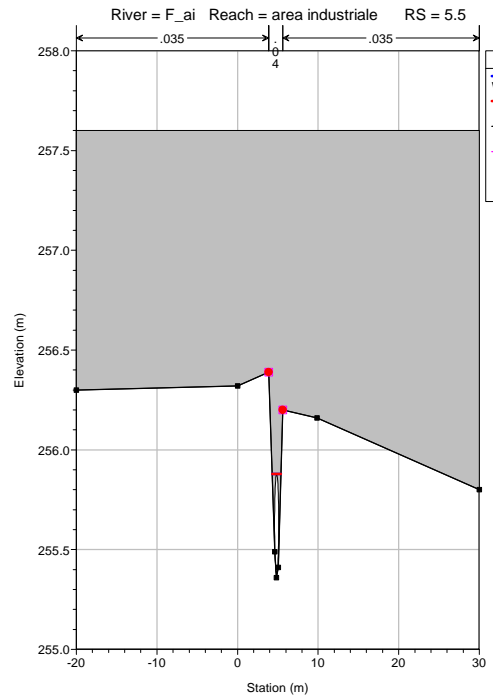
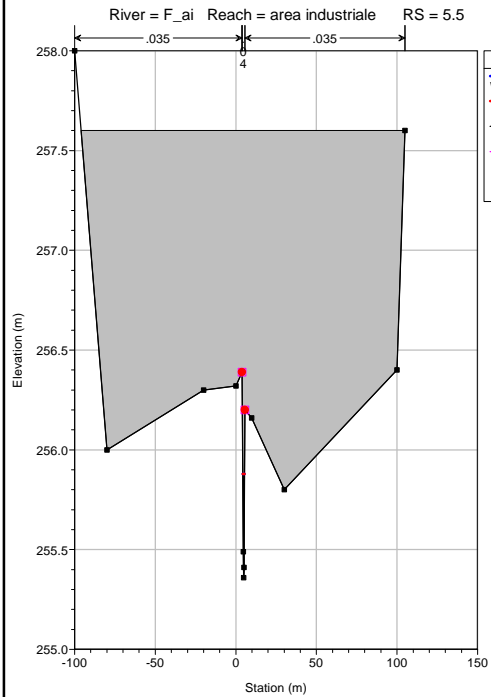
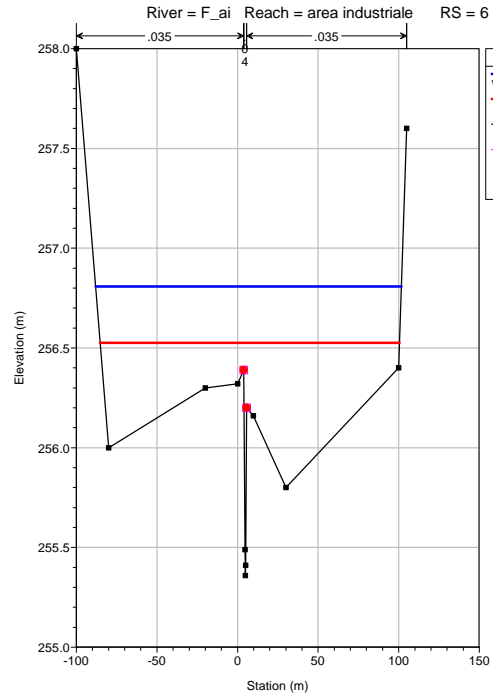
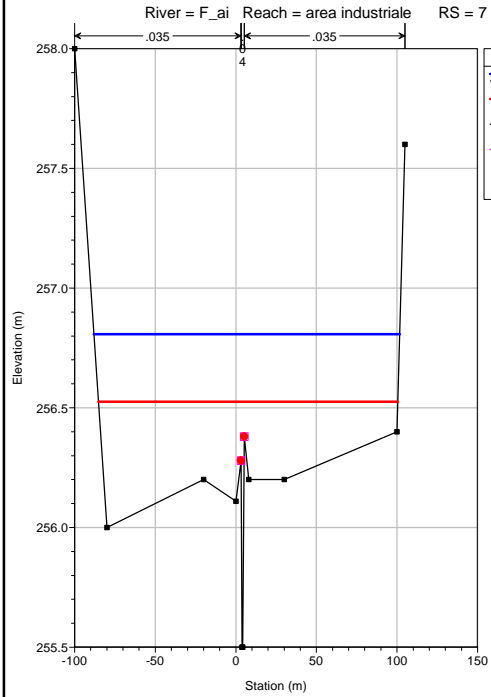
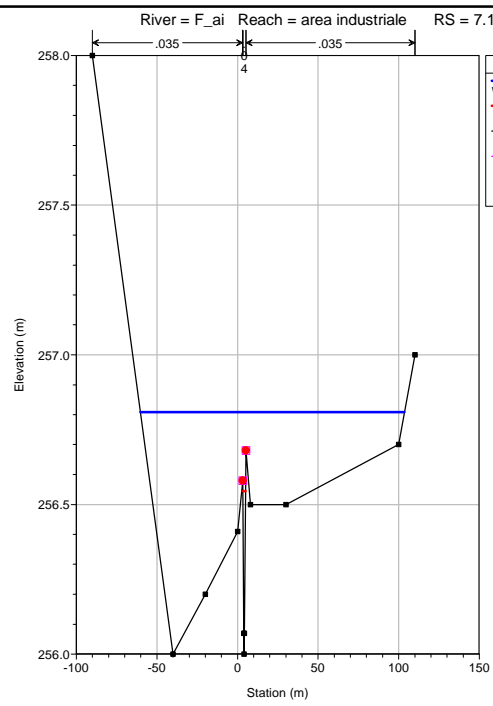
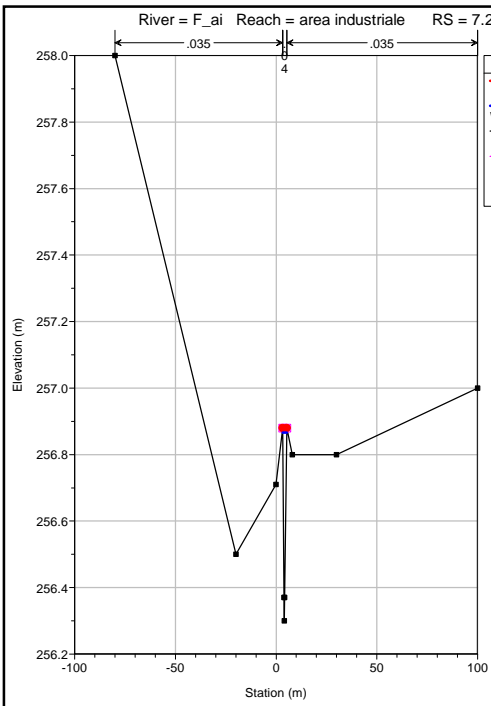
Storage Area	Plan	W.S. Elev (m)	SA Min El (m)	Net Flux (m3/s)	SA Area (1000 m2)	SA Volume (1000 m3)
ape W	30-1 prog	252.56	252.00	-0.01	1.42	0.56
ape WW	200-1 prog	255.08	254.50	10.38	10.26	1.08
ape WW	30-1 prog	254.95	254.50	0.18	0.96	0.25
ape X	200-1 prog	253.47	253.00	0.03	0.04	0.02
ape X	30-1 prog	253.39	253.00	0.00	0.04	0.01
ape XX	200-1 prog	256.19	255.30	2.66	2.50	0.82
ape XX	30-1 prog	255.99	255.30	1.57	2.50	0.30
ape Y	200-1 prog	252.91	252.00	-7.78	3.10	2.21
ape Y	30-1 prog	252.58	252.00	1.03	2.45	1.25
ape YY	200-1 prog	255.11	254.90	0.06	2.22	0.26
ape YY	30-1 prog	255.02	254.90	0.04	2.22	0.07
ape Z	200-1 prog	252.87	251.90	5.55	18.49	7.69
ape Z	30-1 prog	252.65	251.90	9.48	18.49	3.68

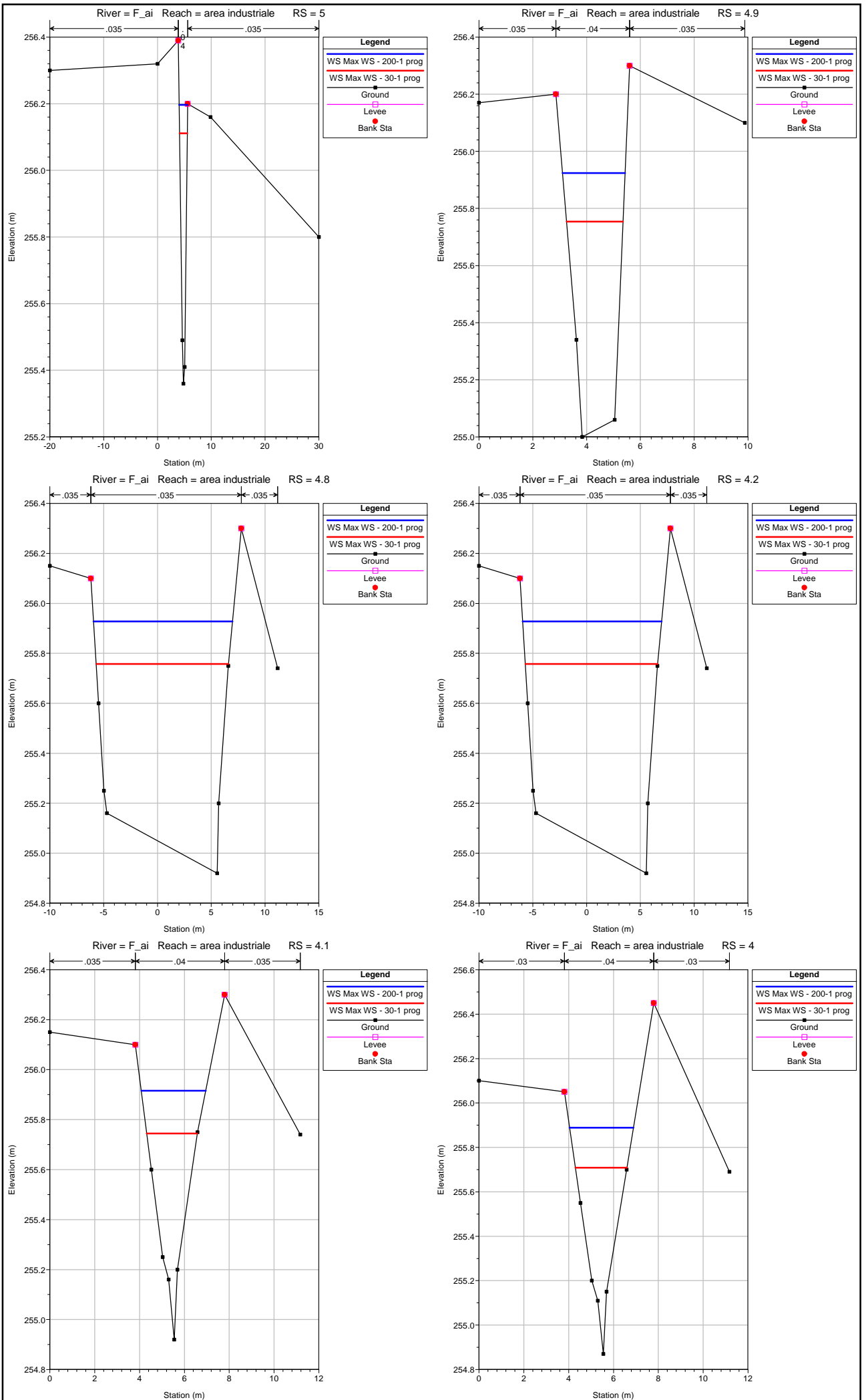


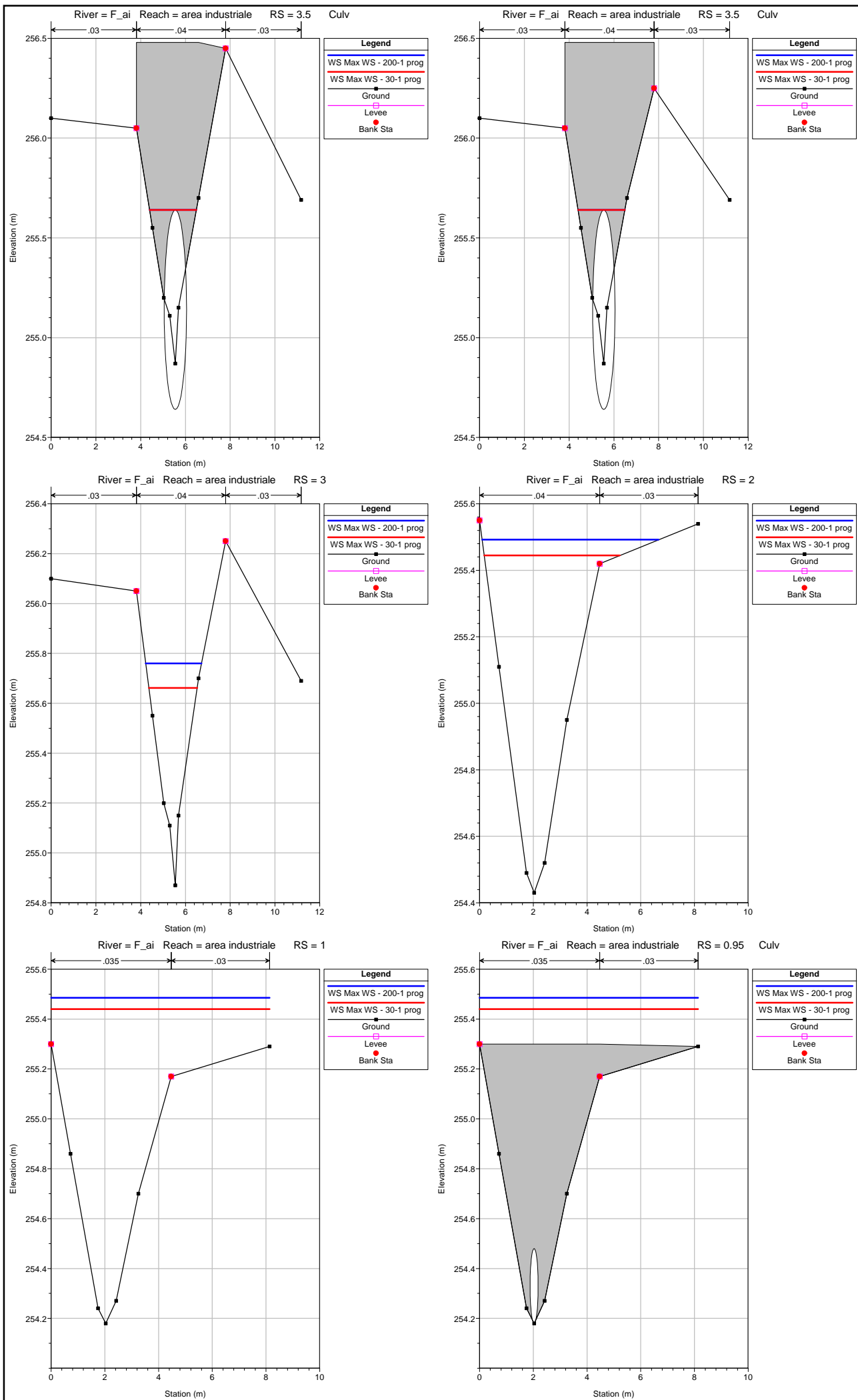


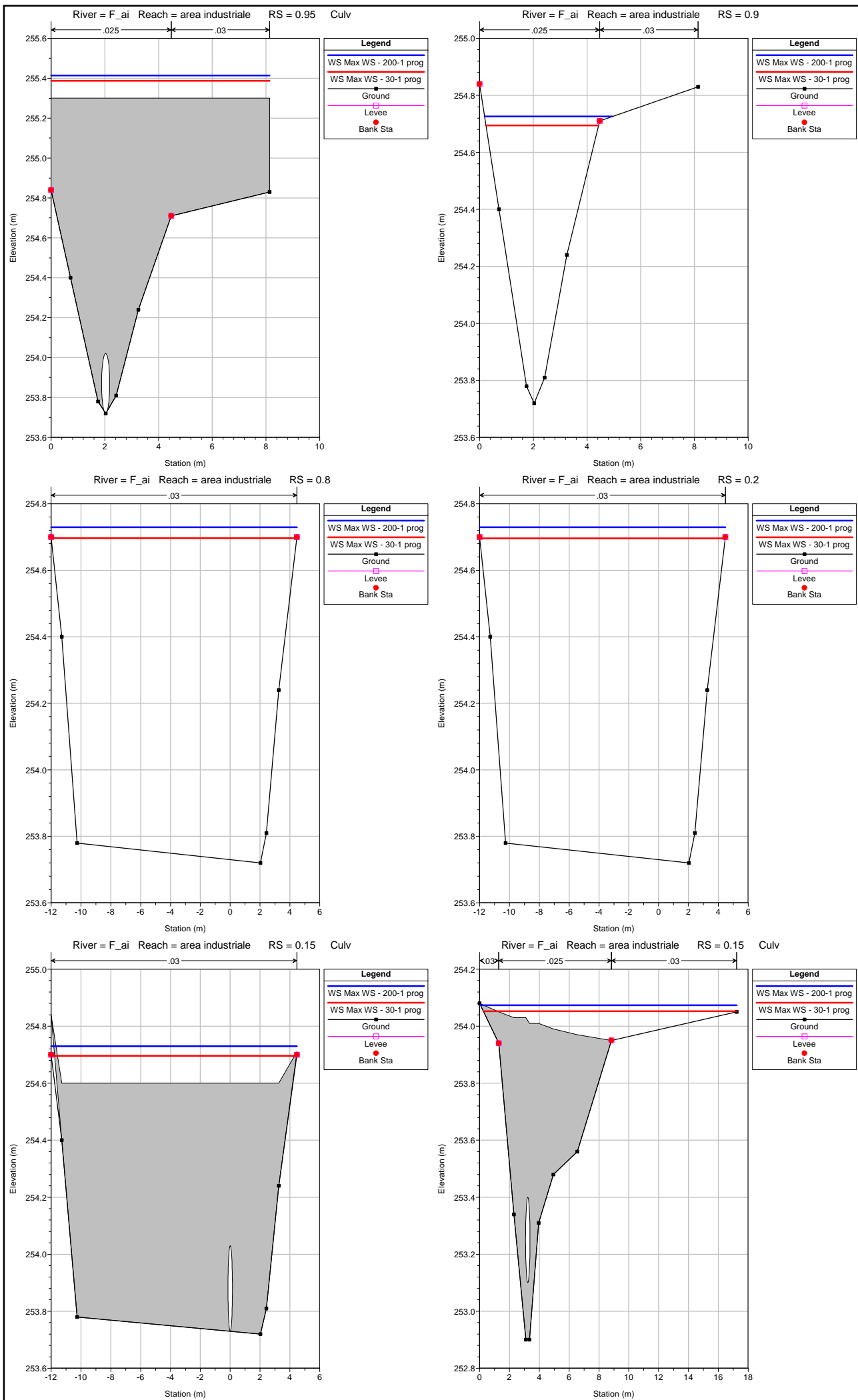


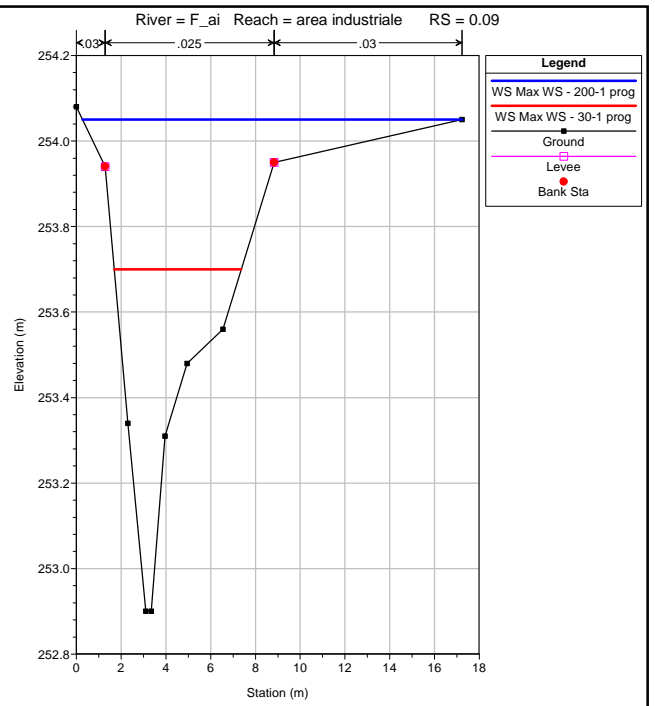
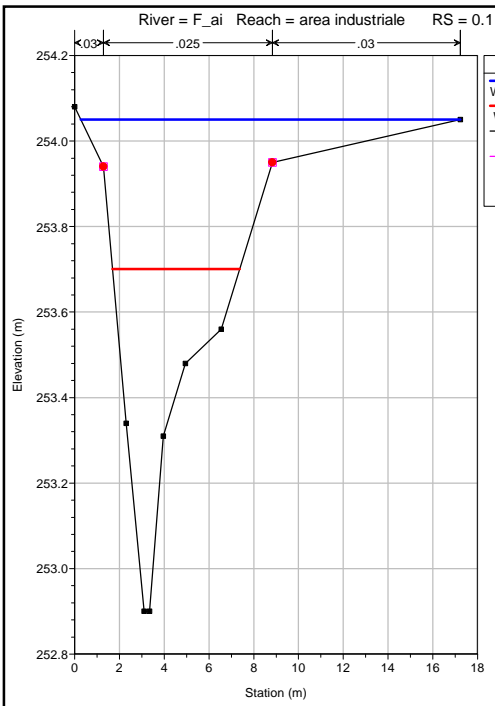




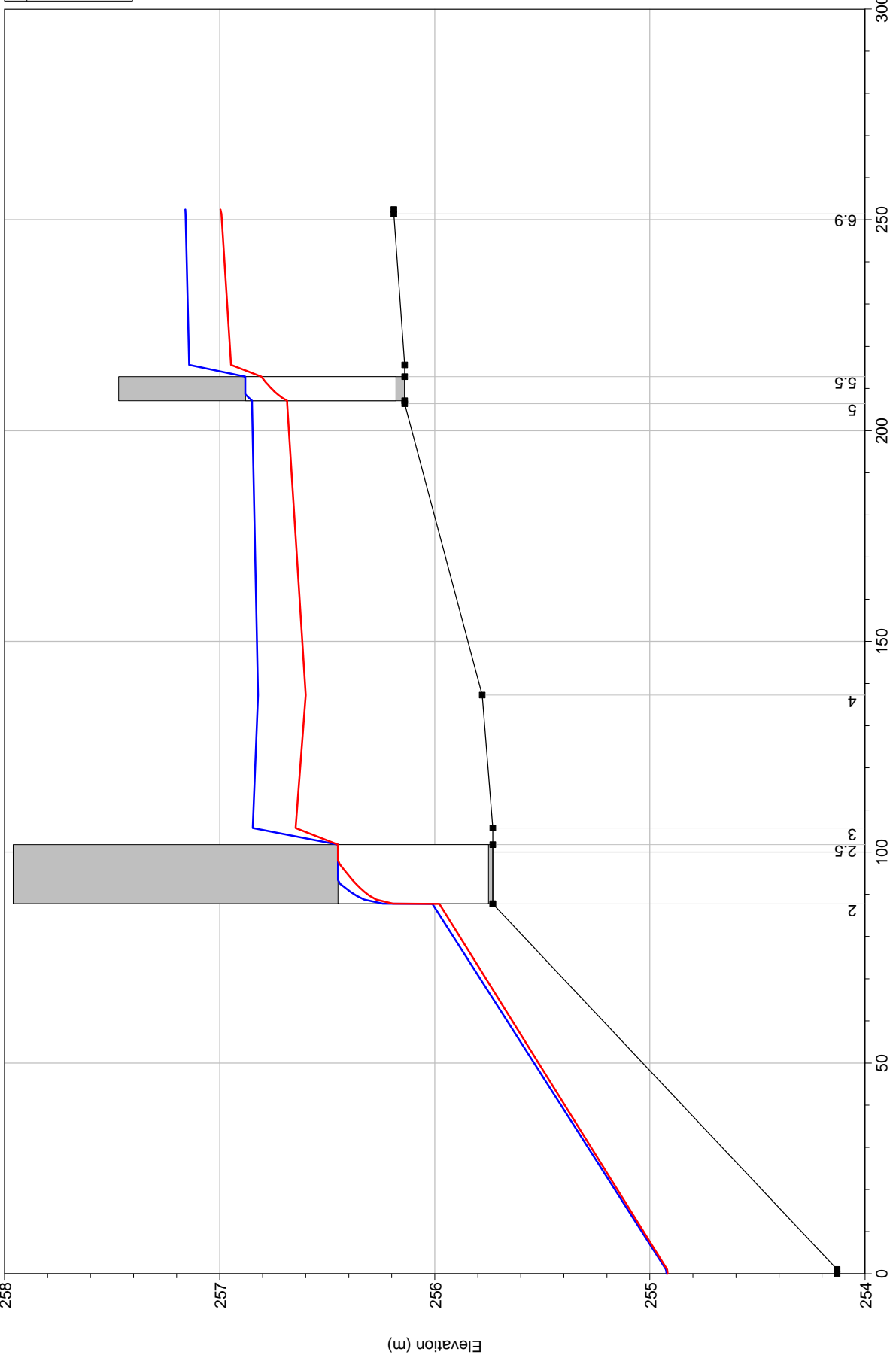
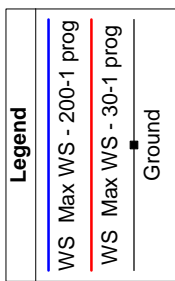






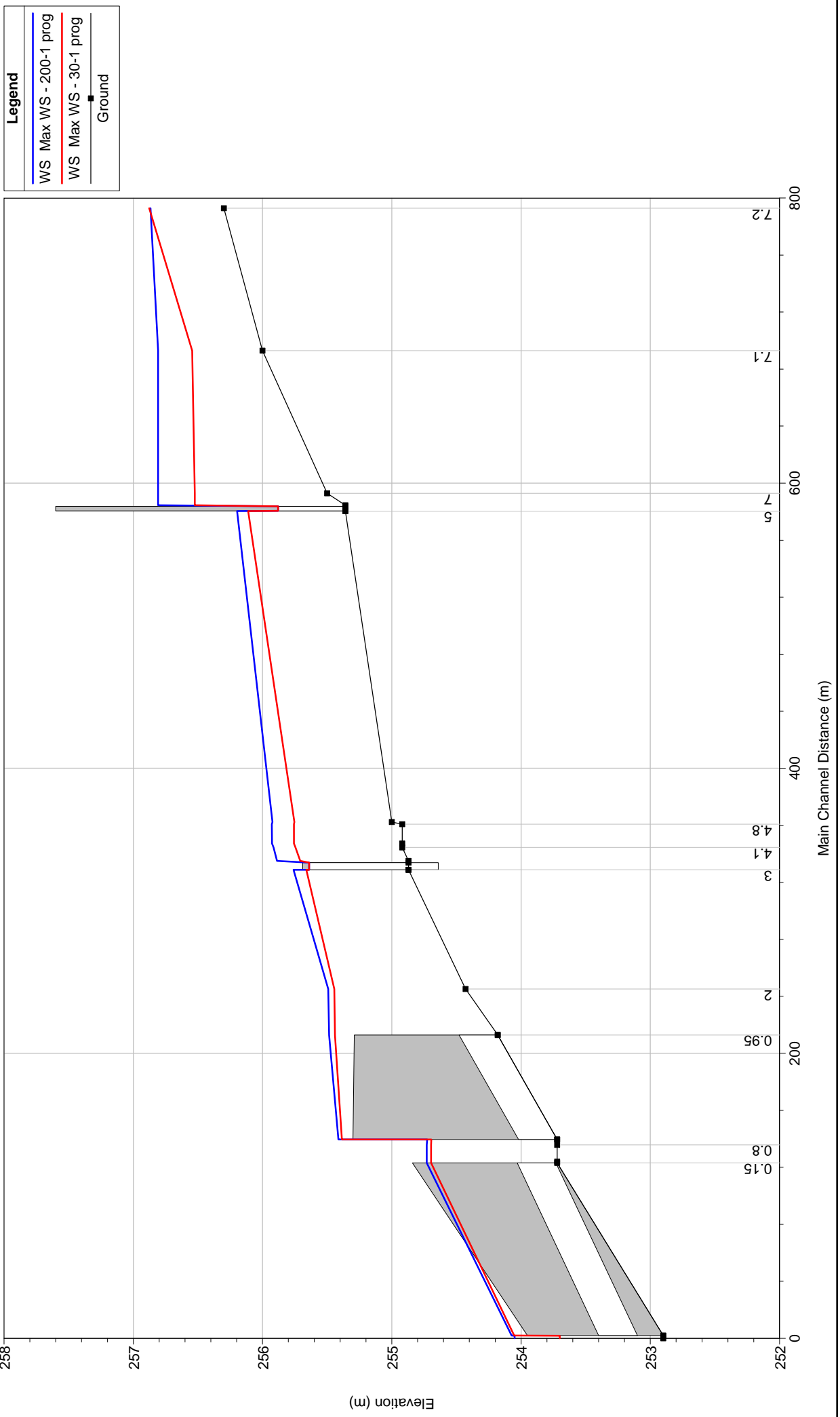


Af1\_BF progetto





F\_ai progetto



**Legend**

- WS Max WS - 200-1 prog
- WS Max WS - 30-1 prog
- Ground