Regione Piemonte – Provincia di Torino
Comune di VIGONE

Indagini geologiche a supporto della Variante Strutturale 2007 del PRG

(studi conformi alla Circolare P.G.R. 8 maggio 1996, n. 7/LAP
e alla D.G.R. 15 luglio 2002, n. 45-6656)

APPENDICE ALL'ALLEGATO 2

STUDIO PER L'ANALISI DELLA PERICOLOSITA' TRAMITE MODELLI DI SIMULAZIONE DELLE PIENE SUL RETICOLO IDROGRAFICO SECONDARIO
--
AREA CONCENTRICO

Tabelle e figure dei modelli di simulazione

Marzo 2007

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Parte 1:
Verifiche in moto uniforme a supporto della schematizzazione di calcolo

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VERIFICA 1

BEALERA CHISONETTO - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (solo alveo)

(MOTO UNIFORME)

Sezione	N	III
Area	1,27	mq
P bagnato	3,08	m
R idraulico	0,41	m
inclinazione	0,00400	m/m

Equazione di Manning

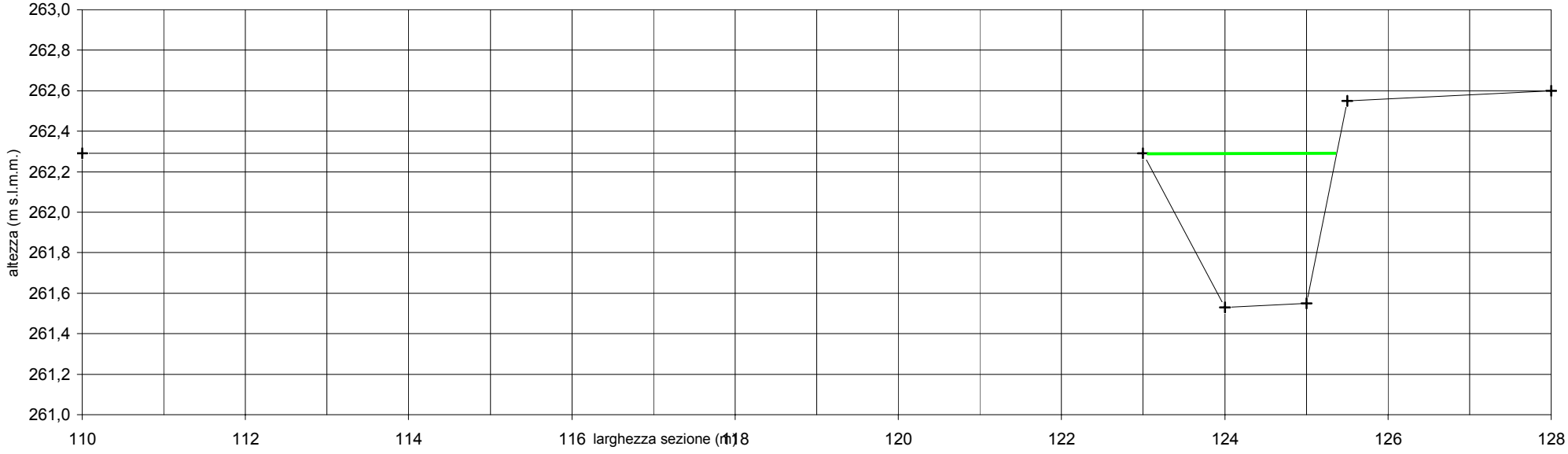
$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$

Q max	mc/sec	2,01
Liv. Max	m	262,29
Vel	m/sec	1,59

p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
1	110,00	262,29	0,022	262,29	0,00	13,00	13,00	0,000	13,0000	0,000	0,000	0,000	0,000		0,00000
2	123,00	262,29	0,022	262,29	0,76	1,00	1,26	0,760	1,0000	1,256	0,380	0,000	0,380	0,30254	0,00410
3	124,00	261,53	0,022	262,29	0,02	1,00	1,00	0,760	1,0000	1,000	0,010	0,740	0,750	0,74985	0,00326
4	125,00	261,55	0,022	262,29	1,00	0,50	1,12	0,740	0,3700	0,827	0,137	0,000	0,137	0,16547	0,00270
5	125,50	262,55	0,022	262,29	0,05	2,50	2,50	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
6	128,00	262,6	0,022	262,29	262,60	-128,00	292,13	262,290	0,0000	0,000	0,000	0,000	0,000		0,00000

BEALERA CHISONETTO -SEZIONE DI DEFLUSSO

(solo alveo)



VERIFICA 2

"BEALERA CHISONETTO" - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (ATTRAVERSAMENTO AG20)

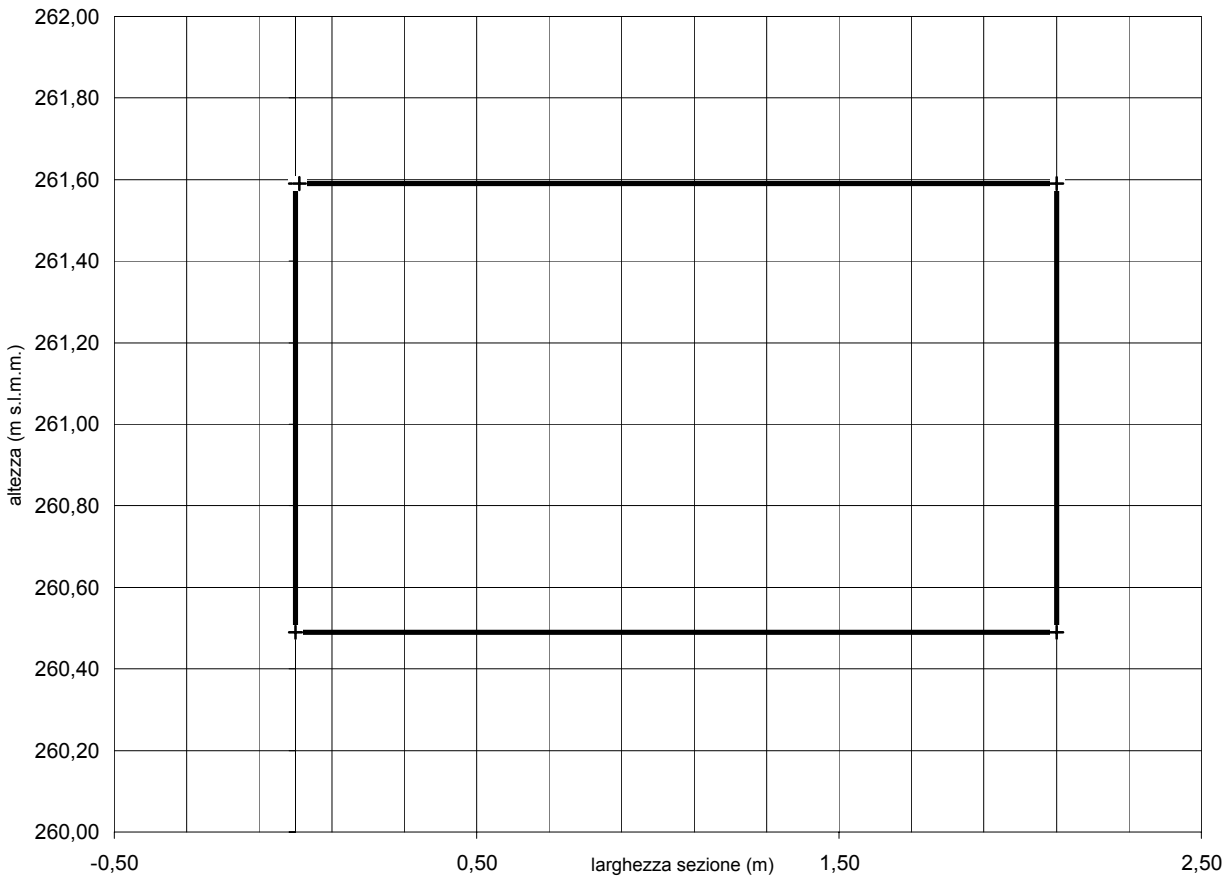
(MOTO UNIFORME)

Sezione	N		p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
Area	2,31	mq	1	0,00	261,59	0,012	261,59	1,10	0,00	1,10	1,100	0,0000	1,100	0,000	0,000	0,000	0,00000	0,00145
P bagnato	4,30	m	2	0,00	260,49	0,012	261,59	0,00	2,10	2,10	1,100	2,1000	2,100	0,000	2,310	2,310	1,10000	0,00276
R idraulico	0,54	m	3	2,10	260,49	0,012	261,59	1,10	0,00	1,10	1,100	0,0000	1,100	0,000	0,000	0,000	0,00000	0,00145
inclinazione	0,00220	m/m	4	2,10	261,59	0,012	261,59	0,00	-2,09	2,09	0,000	-2,0900	0,000	0,000	0,000	0,000		0,00000
Liv	**261,59**	**m**	5	0,01	261,59	0,012	261,59	261,59	-0,01	261,59	261,590	0,0000	0,000	0,000	0,000	0,000		0,00000
Qmax	**5,97**	**mc/sec**																
Vel	**2,58**	**m/sec**																

Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$

"BEALERA CHISONETTO" ATTRAVERSAMENTO AG20



VERIFICA 3

CIRCONVALLAZIONE - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (FORNICI FO1/FO2)

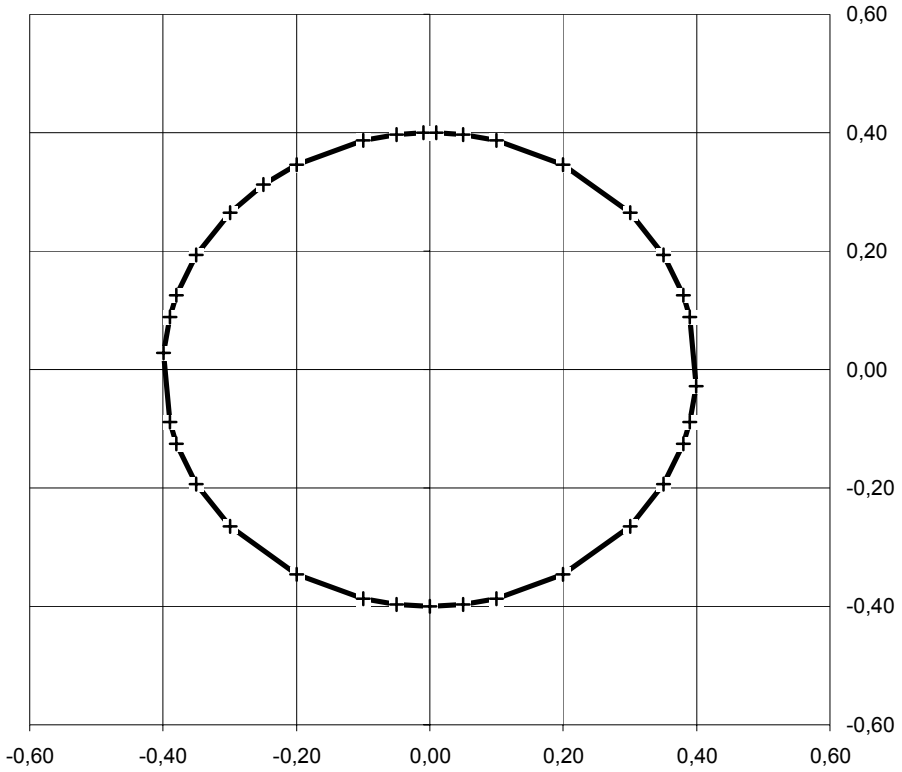
(MOTO UNIFORME)

Sezione	N		p	x	x2	r2-x2	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
Area	0,50	mq	1	-0,01	0,0001	0,1599	0,39987	0,012	0,38	0,00	-0,04	0,04	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
P bagnato	2,27	m	2	-0,05	0,0025	0,1575	0,39686	0,012	0,38	0,01	-0,05	0,05	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
R idraulico	0,22	m	3	-0,1	0,01	0,15	0,3873	0,012	0,38	0,04	-0,10	0,11	0,034	-0,0822	0,089	-0,001	0,000	-0,001	-0,01555	0,00012
inclinazione	0,00450	m/m	4	-0,2	0,04	0,12	0,34641	0,012	0,38	0,03	-0,05	0,06	0,068	-0,0500	0,061	-0,001	-0,002	-0,003	-0,04184	0,00008
Liv	**0,38**	**m**	5	-0,25	0,0625	0,0975	0,31225	0,012	0,38	0,05	-0,05	0,07	0,115	-0,0500	0,069	-0,001	-0,003	-0,005	-0,06629	0,00009
Qmax	**1,00**	**mc/sec**	6	-0,3	0,09	0,07	0,26458	0,012	0,38	0,07	-0,05	0,09	0,186	-0,0500	0,087	-0,002	-0,006	-0,008	-0,08694	0,00011
Vel	**2,03**	**m/sec**	7	-0,35	0,1225	0,0375	0,19365	0,012	0,38	0,07	-0,03	0,08	0,255	-0,0300	0,075	-0,001	-0,006	-0,007	-0,08828	0,00010
			8	-0,38	0,1444	0,0156	0,1249	0,012	0,38	0,04	-0,01	0,04	0,291	-0,0100	0,037	0,000	-0,003	-0,003	-0,07306	0,00005
			9	-0,39	0,1521	0,0079	0,08888	0,012	0,38	0,06	-0,01	0,06	0,352	-0,0090	0,061	0,000	-0,003	-0,003	-0,04721	0,00008
			11	-0,399	0,1592	0,0008	0,02827	0,012	0,38	0,12	0,01	0,12	0,469	0,0090	0,117	0,001	0,003	0,004	0,03143	0,00015
			16	-0,39	0,1521	0,0079	-0,0889	0,012	0,38	0,04	0,01	0,04	0,505	0,0100	0,037	0,000	0,005	0,005	0,13025	0,00005
			17	-0,38	0,1444	0,0156	-0,1249	0,012	0,38	0,07	0,03	0,08	0,574	0,0300	0,075	0,001	0,015	0,016	0,21568	0,00010
			18	-0,35	0,1225	0,0375	-0,1936	0,012	0,38	0,07	0,05	0,09	0,645	0,0500	0,087	0,002	0,029	0,030	0,35096	0,00011
			19	-0,3	0,09	0,07	-0,2646	0,012	0,38	0,08	0,10	0,13	0,726	0,1000	0,129	0,004	0,064	0,069	0,53050	0,00017
			20	-0,2	0,04	0,12	-0,3464	0,012	0,38	0,04	0,10	0,11	0,767	0,1000	0,108	0,002	0,073	0,075	0,69130	0,00014
			21	-0,1	0,01	0,15	-0,3873	0,012	0,38	0,01	0,05	0,05	0,777	0,0500	0,051	0,000	0,038	0,039	0,75833	0,00007
			22	-0,05	0,0025	0,1575	-0,3969	0,012	0,38	0,00	0,05	0,05	0,780	0,0500	0,050	0,000	0,039	0,039	0,77690	0,00007
			23	0,00	0	0,16	-0,4	0,012	0,38	0,00	0,05	0,05	0,780	0,0500	0,050	0,000	0,039	0,039	0,77690	0,00007
			24	0,05	0,0025	0,1575	-0,3969	0,012	0,38	0,01	0,05	0,05	0,777	0,0500	0,051	0,000	0,038	0,039	0,75833	0,00007
			25	0,10	0,01	0,15	-0,3873	0,012	0,38	0,04	0,10	0,11	0,767	0,1000	0,108	0,002	0,073	0,075	0,69130	0,00014
			26	0,20	0,04	0,12	-0,3464	0,012	0,38	0,08	0,10	0,13	0,726	0,1000	0,129	0,004	0,064	0,069	0,53050	0,00017
			27	0,3	0,09	0,07	-0,2646	0,012	0,38	0,07	0,05	0,09	0,645	0,0500	0,087	0,002	0,029	0,030	0,35096	0,00011
			28	0,35	0,1225	0,0375	-0,1936	0,012	0,38	0,07	0,03	0,08	0,574	0,0300	0,075	0,001	0,015	0,016	0,21568	0,00010
			29	0,38	0,1444	0,0156	-0,1249	0,012	0,38	0,04	0,01	0,04	0,505	0,0100	0,037	0,000	0,005	0,005	0,13025	0,00005
			30	0,39	0,1521	0,0079	-0,0889	0,012	0,38	0,06	0,01	0,06	0,469	0,0090	0,061	0,000	0,004	0,004	0,06441	0,00008
			31	0,399	0,1592	0,0008	-0,0283	0,012	0,38	0,12	-0,01	0,12	0,408	-0,0090	0,117	-0,001	-0,003	-0,003	-0,02679	0,00015
			32	0,39	0,1521	0,0079	0,08888	0,012	0,38	0,04	-0,01	0,04	0,291	-0,0100	0,037	0,000	-0,003	-0,003	-0,07306	0,00005
			33	0,38	0,1444	0,0156	0,1249	0,012	0,38	0,07	-0,03	0,08	0,255	-0,0300	0,075	-0,001	-0,006	-0,007	-0,08828	0,00010
			34	0,35	0,1225	0,0375	0,19365	0,012	0,38	0,07	-0,05	0,09	0,186	-0,0500	0,087	-0,002	-0,006	-0,008	-0,08694	0,00011
			41	0,3	0,09	0,07	0,26458	0,012	0,38	0,08	-0,10	0,13	0,115	-0,1000	0,129	-0,004	-0,003	-0,007	-0,05766	0,00017
			42	0,20	0,04	0,12	0,34641	0,012	0,38	0,04	-0,10	0,11	0,034	-0,0822	0,089	-0,001	0,000	-0,001	-0,01555	0,00012
			43	0,10	0,01	0,15	0,3873	0,012	0,38	0,01	-0,05	0,05	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
			44	0,05	0,0025	0,1575	0,39686	0,012	0,38	0,00	-0,04	0,04	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
			45	0,01	0,0001	0,1599	0,39987	0,012	0,38	0,40	-0,01	0,40	0,380	0,0000	0,000	0,000	0,000	0,000		0,00000

Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$

CIRCONVALLAZIONE FORNICI FO1/FO2



VERIFICA 4

SCARICATORE CHISONETTO- VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (INTUBAMENTO CA15)

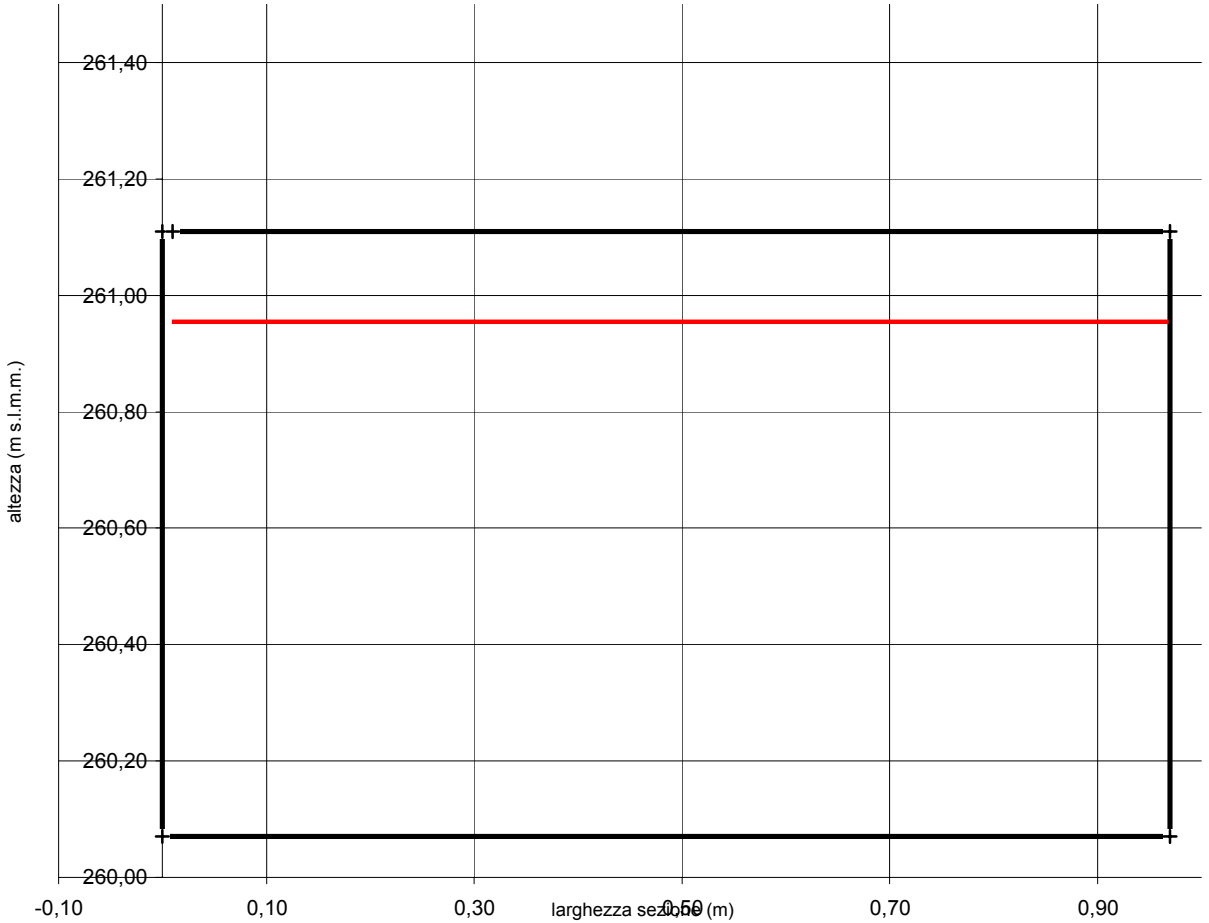
(MOTO UNIFORME)

Sezione	N		p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
Area	0,98	mq	1	0,00	261,11	0,014	261,08	1,04	0,00	1,04	1,010	0,0000	1,010	0,000	0,000	0,000	0,00000	0,00167
P bagnato	2,99	m	2	0,00	260,07	0,014	261,08	0,00	0,97	0,97	1,010	0,9700	0,970	0,000	0,980	0,980	1,01000	0,00161
R idraulico	0,33	m	3	0,97	260,07	0,014	261,08	1,04	0,00	1,04	1,010	0,0000	1,010	0,000	0,000	0,000	0,00000	0,00167
inclinazione	0,00400	m/m	4	0,97	261,11	0,014	261,08	0,00	-0,96	0,96	0,000	-0,9600	0,000	0,000	0,000	0,000		0,00000
Liv	**261,08**	**m**	5	0,01	261,11	0,014	261,08	261,11	-0,01	261,11	261,080	0,0000	0,000	0,000	0,000	0,000		0,00000
Qmax	**2,10**	**mc/sec**																
Vel	**2,15**	**m/sec**																

Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$

SCARICATORE CHISONETTO- INTUBAMENTO CA15



VERIFICA 5

SFIORATORE LATERALE - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (Area AL2)

(MOTO UNIFORME)

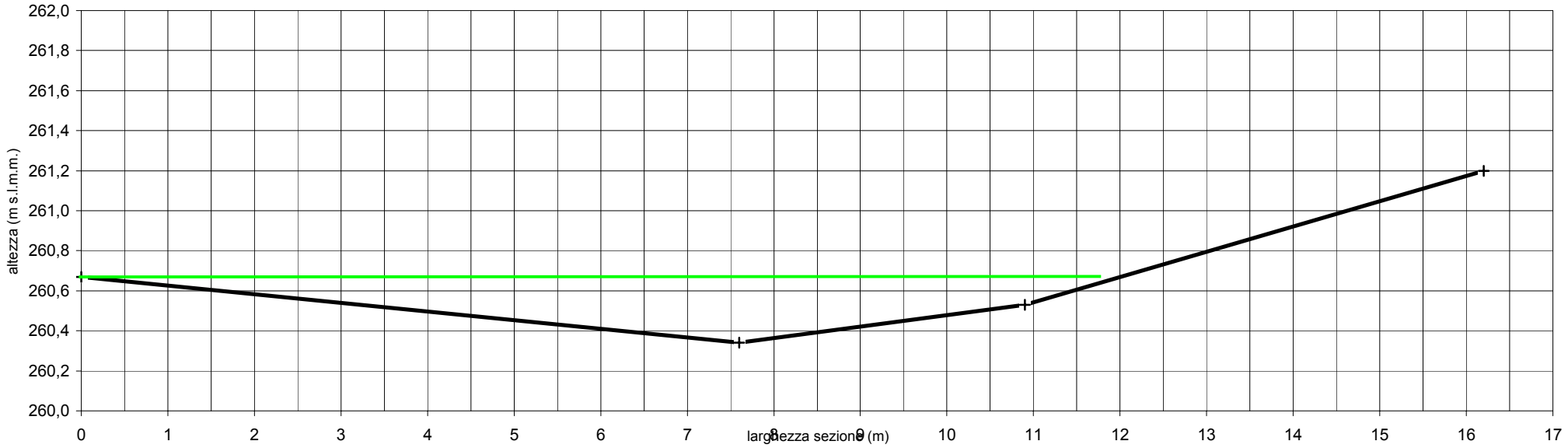
Sezione	N	III	p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
Area	1,39	mq	1	0,00	260,67	0,028	260,67	0,14	10,90	10,90	0,140	10,9000	10,901	0,763	0,000	0,763	0,06999	0,05107
P bagnato	15,33	m	2	7,60	260,34	0,028	260,67	0,86	8,60	8,64	0,330	3,3000	3,316	0,545	0,000	0,545	0,16418	0,01554
R idraulico	0,09	m	3	10,90	260,53	0,028	260,67	0,67	5,30	5,34	0,140	1,1075	1,116	0,078	0,000	0,078	0,06945	0,00523
inclinazione	0,08000	m/m	4	16,20	261,20	0,028	260,67	261,20	-16,20	261,70	260,670	0,0000	0,000	0,000	0,000	0,000		0,00000

Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$

Q max	mc/sec	2,82
Liv. Max	m	260,67
Vel	m/sec	2,03

Bealera Chisonetto-SEZIONE DI DEFLUSSO (Area di laminazione AL2)



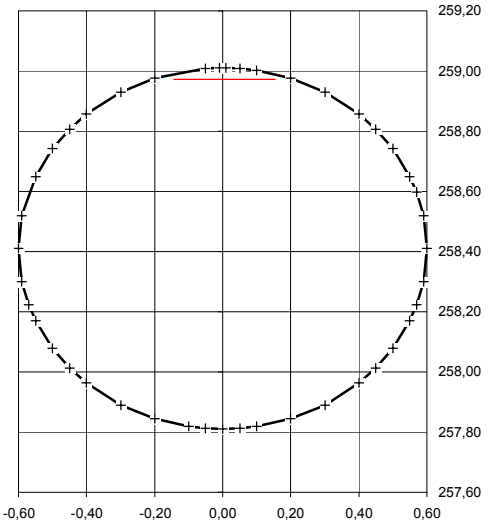
CANALE VADO PELOSO - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (INTUBAMENTO CA20)
(MOTO UNIFORME)

Sezione	N		
Area	1,07	mq	
P bagnato	3,00	m	
R idraulico	0,36	m	
inclinazione	0,00075	m/m	
Liv	**258,89**	**m**	
Qmax	**0,82**	**mc/sec**	
Vel	**0,76**	**m/sec**	

Equazione di Manning
$Vi = (1/n_e)R^{2/3}$ incl.$^{1/2}$

p	x	x2	y	y ass	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
1	-0,01	0,0001	259,01	259,01	0,018	258,89	0,00	-0,04	0,04	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
2	-0,05	0,0025	259,008	259,008	0,018	258,89	0,00	0,00	0,00	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
3	-0,05	0,0025	259,008	259,008	0,018	258,89	0,03	-0,15	0,15	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
4	-0,2	0,04	258,976	258,976	0,018	258,89	0,05	-0,10	0,11	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
5	-0,3	0,09	258,93	258,93	0,018	258,89	0,07	-0,10	0,12	0,033	-0,0453	0,056	-0,001	0,000	-0,001	-0,01328	0,00014
6	-0,4	0,16	258,857	258,857	0,018	258,89	0,05	-0,05	0,07	0,083	-0,0500	0,071	-0,001	-0,002	-0,003	-0,04084	0,00017
7	-0,45	0,2025	258,807	258,807	0,018	258,89	0,07	-0,05	0,08	0,148	-0,0500	0,082	-0,002	-0,004	-0,006	-0,07043	0,00020
8	-0,5	0,25	258,742	258,742	0,018	258,89	0,09	-0,05	0,10	0,240	-0,0500	0,105	-0,002	-0,007	-0,010	-0,09287	0,00025
9	-0,55	0,3025	258,65	258,65	0,018	258,89	0,13	-0,04	0,14	0,371	-0,0400	0,137	-0,003	-0,010	-0,012	-0,08942	0,00033
11	-0,59	0,3481	258,519	258,519	0,018	258,89	0,11	-0,01	0,11	0,480	-0,0100	0,110	-0,001	-0,004	-0,004	-0,03884	0,00026
12	-0,6	0,36	258,41	258,41	0,018	258,89	0,11	0,01	0,11	0,589	0,0100	0,110	0,001	0,005	0,005	0,04880	0,00026
13	-0,59	0,3481	258,301	258,301	0,018	258,89	0,08	0,02	0,08	0,667	0,0200	0,081	0,001	0,012	0,013	0,15554	0,00020
14	-0,57	0,3249	258,223	258,223	0,018	258,89	0,05	0,02	0,06	0,720	0,0200	0,056	0,001	0,013	0,014	0,24715	0,00014
15	-0,55	0,3025	258,17	258,17	0,018	258,89	0,09	0,05	0,10	0,812	0,0500	0,105	0,002	0,036	0,038	0,36604	0,00025
16	-0,5	0,25	258,078	258,078	0,018	258,89	0,07	0,05	0,08	0,877	0,0500	0,082	0,002	0,041	0,042	0,51376	0,00020
17	-0,45	0,2025	258,013	258,013	0,018	258,89	0,05	0,05	0,07	0,927	0,0500	0,071	0,001	0,044	0,045	0,63560	0,00017
18	-0,4	0,16	257,963	257,963	0,018	258,89	0,07	0,10	0,12	1,000	0,1000	0,123	0,004	0,093	0,096	0,78035	0,00030
19	-0,3	0,09	257,89	257,89	0,018	258,89	0,05	0,10	0,11	1,046	0,1000	0,110	0,002	0,100	0,102	0,92882	0,00027
20	-0,2	0,04	257,844	257,844	0,018	258,89	0,03	0,10	0,10	1,072	0,1000	0,103	0,001	0,105	0,106	1,02478	0,00025
21	-0,1	0,01	257,818	257,818	0,018	258,89	0,01	0,05	0,05	1,078	0,0500	0,050	0,000	0,054	0,054	1,06632	0,00012
22	-0,05	0,0025	257,812	257,812	0,018	258,89	0,00	0,05	0,05	1,080	0,0500	0,050	0,000	0,054	0,054	1,07802	0,00012
23	0,00	0	257,81	257,81	0,018	258,89	0,00	0,05	0,05	1,080	0,0500	0,050	0,000	0,054	0,054	1,07802	0,00012
24	0,05	0,0025	257,812	257,812	0,018	258,89	0,01	0,05	0,05	1,078	0,0500	0,050	0,000	0,054	0,054	1,06632	0,00012
25	0,10	0,01	257,818	257,818	0,018	258,89	0,03	0,10	0,10	1,072	0,1000	0,103	0,001	0,105	0,106	1,02478	0,00025
26	0,20	0,04	257,844	257,844	0,018	258,89	0,05	0,10	0,11	1,046	0,1000	0,110	0,002	0,100	0,102	0,92882	0,00027
27	0,3	0,09	257,89	257,89	0,018	258,89	0,07	0,10	0,12	1,000	0,1000	0,123	0,004	0,093	0,096	0,78035	0,00030
28	0,40	0,16	257,963	257,963	0,018	258,89	0,05	0,05	0,07	0,927	0,0500	0,071	0,001	0,044	0,045	0,63560	0,00017
29	0,45	0,2025	258,013	258,013	0,018	258,89	0,07	0,05	0,08	0,877	0,0500	0,082	0,002	0,041	0,042	0,51376	0,00020
30	0,50	0,25	258,078	258,078	0,018	258,89	0,09	0,05	0,10	0,812	0,0500	0,105	0,002	0,036	0,038	0,36604	0,00025
31	0,55	0,3025	258,17	258,17	0,018	258,89	0,05	0,02	0,06	0,720	0,0200	0,056	0,001	0,013	0,014	0,24715	0,00014
32	0,57	0,3249	258,223	258,223	0,018	258,89	0,08	0,02	0,08	0,667	0,0200	0,081	0,001	0,012	0,013	0,15554	0,00020
33	0,59	0,3481	258,301	258,301	0,018	258,89	0,11	0,01	0,11	0,589	0,0100	0,110	0,001	0,005	0,005	0,04880	0,00026
34	0,6	0,36	258,41	258,41	0,018	258,89	0,11	-0,01	0,11	0,480	-0,0100	0,110	-0,001	-0,004	-0,004	-0,03884	0,00026
35	0,59	0,3481	258,519	258,519	0,018	258,89	0,08	-0,02	0,08	0,371	-0,0200	0,081	-0,001	-0,006	-0,007	-0,08215	0,00020
36	0,57	0,3249	258,597	258,597	0,018	258,89	0,05	-0,02	0,06	0,293	-0,0200	0,056	-0,001	-0,005	-0,005	-0,09494	0,00014
37	0,55	0,3025	258,65	258,65	0,018	258,89	0,09	-0,05	0,10	0,240	-0,0500	0,105	-0,002	-0,007	-0,010	-0,09287	0,00025
38	0,5	0,25	258,742	258,742	0,018	258,89	0,07	-0,05	0,08	0,148	-0,0500	0,082	-0,002	-0,004	-0,006	-0,07043	0,00020
39	0,45	0,2025	258,807	258,807	0,018	258,89	0,05	-0,05	0,07	0,083	-0,0500	0,071	-0,001	-0,002	-0,003	-0,04084	0,00017
40	0,40	0,16	258,857	258,857	0,018	258,89	0,07	-0,10	0,12	0,033	-0,0453	0,056	-0,001	0,000	-0,001	-0,01328	0,00014
41	0,3	0,09	258,93	258,93	0,018	258,89	0,05	-0,10	0,11	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
42	0,20	0,04	258,976	258,976	0,018	258,89	0,03	-0,10	0,10	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
43	0,10	0,01	259,002	259,002	0,018	258,89	0,01	-0,05	0,05	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
44	0,05	0,0025	259,008	259,008	0,018	258,89	0,00	-0,04	0,04	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
45	0,01	0,0001	259,01	259,01	0,018	258,89	259,01	-0,01	259,01	258,890	0,0000	0,000	0,000	0,000	0,000		0,00000

CANALE VADO PELOSO INTUBAMENTO CA20



VERIFICA 7

BEALERA BASTIONI - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (solo alveo)

(MOTO UNIFORME)

Sezione	N	III
Area	3,30	mq
P bagnato	7,83	m
R idraulico	0,42	m
inclinazione	0,00120	m/m

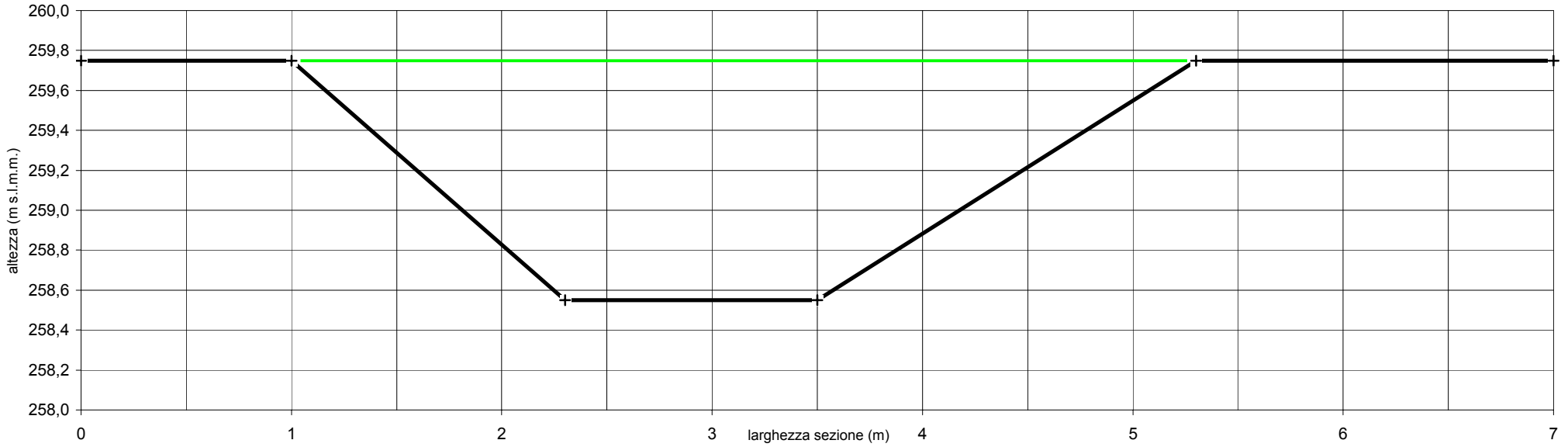
Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$

Q max	mc/sec	2,68
Liv. Max	m	259,80
Vel	m/sec	0,81

p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
1	0,00	259,75	0,024	259,80	0,00	1,00	1,00	0,050	1,0000	1,000	0,000	0,050	0,050	0,05000	0,00372
2	1,00	259,75	0,024	259,80	1,20	1,30	1,77	1,250	1,3000	1,769	0,780	0,065	0,845	0,47762	0,00658
3	2,30	258,55	0,024	259,80	0,00	1,20	1,20	1,250	1,2000	1,200	0,000	1,500	1,500	1,25000	0,00446
4	3,50	258,55	0,024	259,80	1,20	1,80	2,16	1,250	1,8000	2,163	1,080	0,090	1,170	0,54083	0,00804
5	5,30	259,75	0,024	259,80	0,00	1,70	1,70	0,050	1,7000	1,700	0,000	0,085	0,085	0,05000	0,00632
6	7,00	259,75	0,024	259,80	259,75	-7,00	259,84	259,800	0,0000	0,000	0,000	-0,350	-0,350		0,00000

BEALERA BASTIONI-SEZIONE DI DEFLUSSO (solo alveo)



VERIFICA 8

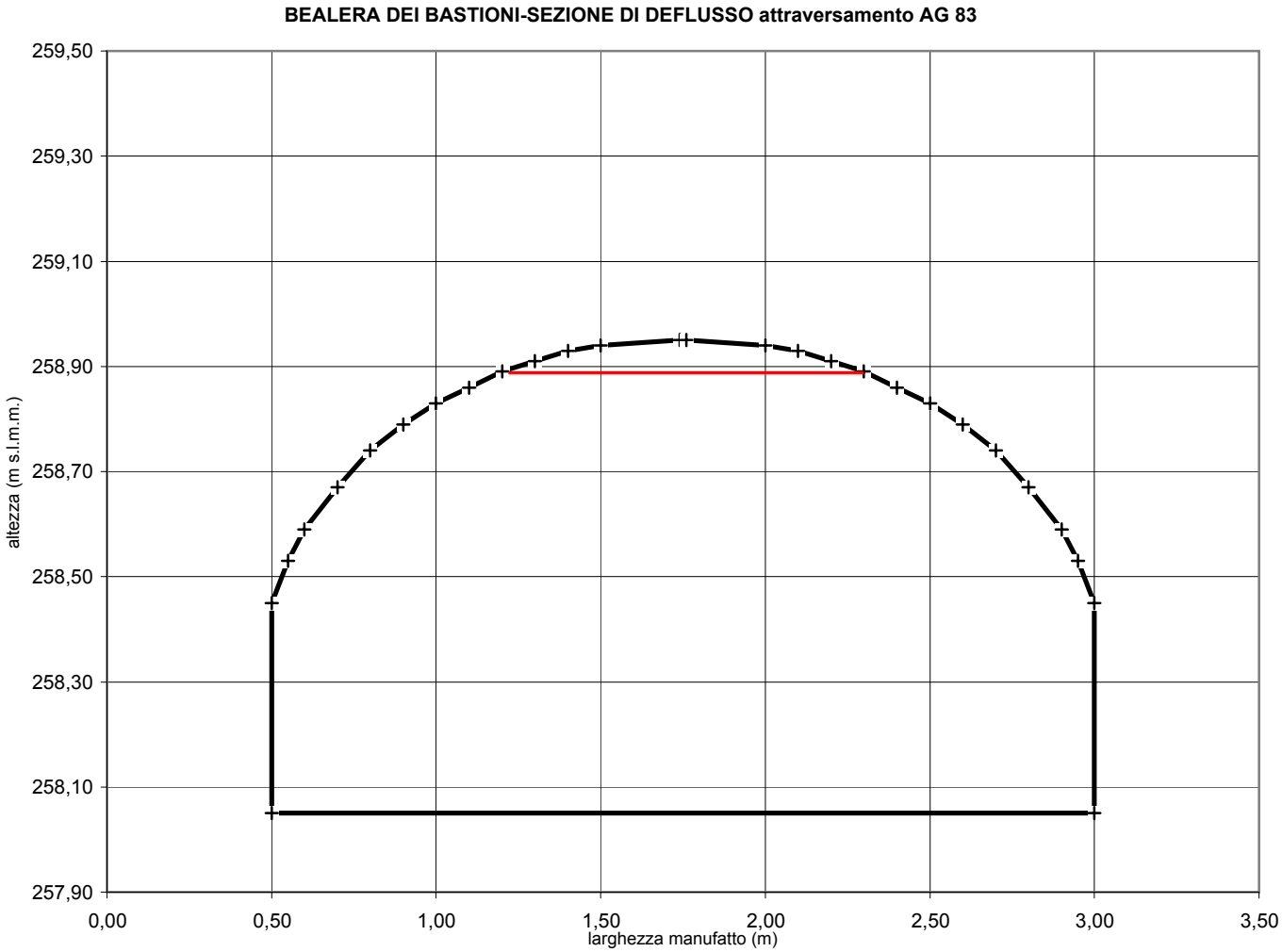
BEALERA DEI BASTIONI - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (attraversamento AG 83)

(MOTO UNIFORME)

Sezione	N		p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
Area max	**1,92**	mq	1	1,74	258,95	0,017	258,93	0,01	-0,24	0,24	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
P bagnato	**5,41**	m	2	1,5	258,94	0,017	258,93	0,010	-0,10	0,10	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
R idraulico	**0,36**	m	3	1,40	258,93	0,017	258,93	0,02	-0,10	0,10	0,020	-0,1000	0,102	-0,001	0,000	-0,001	-0,00981	0,00023
Liv	**258,93**	m	4	1,30	258,91	0,017	258,93	0,02	-0,10	0,10	0,040	-0,1000	0,102	-0,001	-0,002	-0,003	-0,02942	0,00023
ne	**0,01700**	sec/m^1/3	5	1,20	258,89	0,017	258,93	0,03	-0,10	0,10	0,070	-0,1000	0,104	-0,001	-0,004	-0,006	-0,05268	0,00023
inclinazione	**0,00230**	m/m	6	1,10	258,86	0,017	258,93	0,03	-0,10	0,10	0,100	-0,1000	0,104	-0,002	-0,007	-0,009	-0,08142	0,00023
Qmax	**2,72**	mc/sec	7	1,00	258,83	0,017	258,93	0,04	-0,10	0,11	0,140	-0,1000	0,108	-0,002	-0,010	-0,012	-0,11142	0,00024
			8	0,90	258,79	0,017	258,93	0,05	-0,10	0,11	0,190	-0,1000	0,112	-0,003	-0,014	-0,016	-0,14758	0,00025
Vel	1,41	m/sec	9	0,80	258,74	0,017	258,93	0,07	-0,10	0,12	0,260	-0,1000	0,122	-0,003	-0,019	-0,022	-0,18433	0,00027
			10	0,70	258,67	0,017	258,93	0,08	-0,10	0,13	0,340	-0,1000	0,128	-0,004	-0,026	-0,030	-0,23426	0,00028
			11	0,60	258,59	0,017	258,93	0,06	-0,05	0,08	0,400	-0,0500	0,078	-0,002	-0,017	-0,019	-0,23687	0,00017
			12	0,55	258,53	0,017	258,93	0,08	-0,05	0,09	0,480	-0,0500	0,094	-0,002	-0,020	-0,022	-0,23320	0,00021
			13	0,50	258,45	0,017	258,93	0,40	0,00	0,40	0,880	0,0000	0,400	0,000	0,000	0,000	0,00000	0,00089
			14	0,50	258,05	0,017	258,93	0,00	2,50	2,50	0,880	2,5000	2,500	0,000	2,200	2,200	0,88000	0,00554
			15	3,00	258,05	0,017	258,93	0,40	0,00	0,40	0,880	0,0000	0,400	0,000	0,000	0,000	0,00000	0,00089
			16	3,00	258,45	0,017	258,93	0,08	-0,05	0,09	0,480	-0,0500	0,094	-0,002	-0,020	-0,022	-0,23320	0,00021
			17	2,95	258,53	0,017	258,93	0,06	-0,05	0,08	0,400	-0,0500	0,078	-0,002	-0,017	-0,019	-0,23687	0,00017
			18	2,90	258,59	0,017	258,93	0,08	-0,10	0,13	0,340	-0,1000	0,128	-0,004	-0,026	-0,030	-0,23426	0,00028
			19	2,80	258,67	0,017	258,93	0,07	-0,10	0,12	0,260	-0,1000	0,122	-0,003	-0,019	-0,022	-0,18433	0,00027
			20	2,70	258,74	0,017	258,93	0,05	-0,10	0,11	0,190	-0,1000	0,112	-0,003	-0,014	-0,016	-0,14758	0,00025
			21	2,60	258,79	0,017	258,93	0,04	-0,10	0,11	0,140	-0,1000	0,108	-0,002	-0,010	-0,012	-0,11142	0,00024
			22	2,50	258,83	0,017	258,93	0,03	-0,10	0,10	0,100	-0,1000	0,104	-0,002	-0,007	-0,009	-0,08142	0,00023
			23	2,4	258,86	0,017	258,93	0,03	-0,10	0,10	0,070	-0,1000	0,104	-0,001	-0,004	-0,006	-0,05268	0,00023
			24	2,3	258,89	0,017	258,93	0,02	-0,10	0,10	0,040	-0,1000	0,102	-0,001	-0,002	-0,003	-0,02942	0,00023
			25	2,2	258,91	0,017	258,93	0,02	-0,10	0,10	0,020	-0,1000	0,102	-0,001	0,000	-0,001	-0,00981	0,00023
			26	2,1	258,93	0,017	258,93	0,01	-0,10	0,10	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
			27	2	258,94	0,017	258,93	0,010	-0,24	0,24	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
			28	1,76	258,95	0,017	258,93	258,95	-1,76	258,96	258,930	0,0000	0,000	0,000	0,000	0,000		0,00000

Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$



VERIFICA 9

INVASO CASTELLAZZO - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (PUNTO DI TRACIMAZIONE PT1)

(MOTO UNIFORME)

Sezione	N	III
Area	13,80	mq
P bagnato	32,79	m
R idraulico	0,42	m
inclinazione	0,00080	m/m

Equazione di Manning

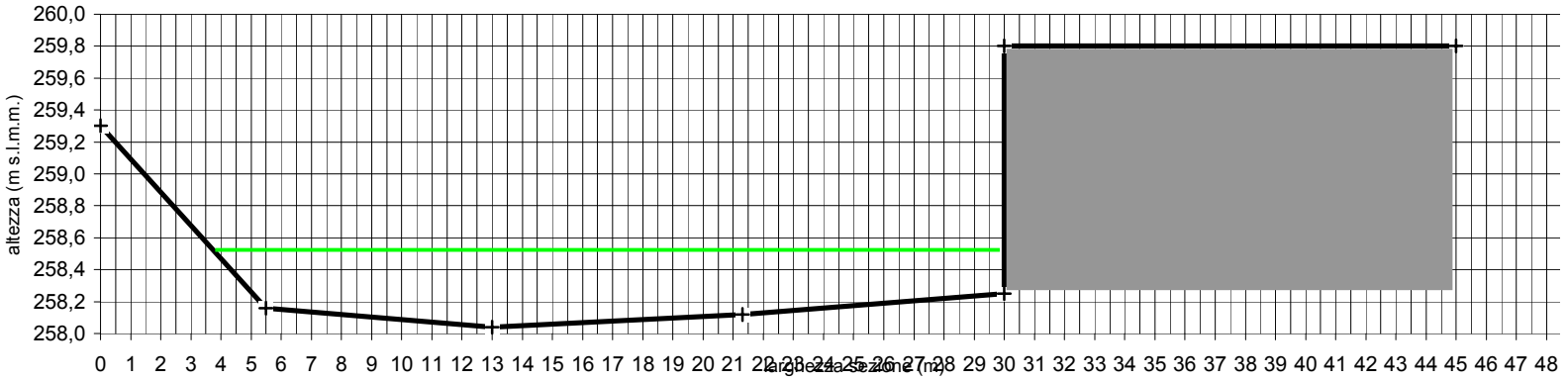
$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$

Q max	mc/sec	6,26
Liv. Max	m	258,60
Vel	m/sec	0,45

p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
1	0,00	259,30	0,035	258,60	1,26	13,00	13,06	0,560	5,7778	5,805	1,618	0,000	1,618	0,27869	0,03801
2	5,50	258,16	0,035	258,60	0,04	15,80	15,80	0,480	15,8000	15,800	0,316	6,952	7,268	0,46000	0,10346
3	13,00	258,04	0,035	258,60	0,08	8,30	8,30	0,560	8,3000	8,300	0,332	3,984	4,316	0,51998	0,05435
4	21,30	258,12	0,035	258,60	1,68	8,70	8,86	0,480	2,4857	2,532	0,597	0,000	0,597	0,23565	0,01658
	30,00	258,25	0,035	258,60	1,55	0,00	1,55	0,350	0,0000	0,350	0,000	0,000	0,000	0,00000	0,00229
5	30,00	259,80	0,035	258,60	0,00	15,00	15,00	0,000	15,0000	0,000	0,000	0,000	0,000		0,00000
6	45,00	259,80	0,035	258,60	259,80	-45,00	263,67	258,600	0,0000	0,000	0,000	0,000	0,000		0,00000

Livello	Velocità	Portata
h	m/s	mc/s
258,10	0,08	0,02
258,15	0,09	0,08
258,20	0,15	0,3
258,25	0,2	0,7
258,30	0,25	1,2
258,35	0,3	1,8
258,40	0,3	2,5
258,45	0,4	3,3
258,50	0,4	4,2
258,55	0,4	5,2
258,60	0,5	6,2

INVASO CASTELLAZZO-SEZIONE DI DEFLUSSO (punto di tracimazione PT1)



VERIFICA 10

INVASO CASTELLAZZO - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (scarico FO3)

(MOTO UNIFORME)

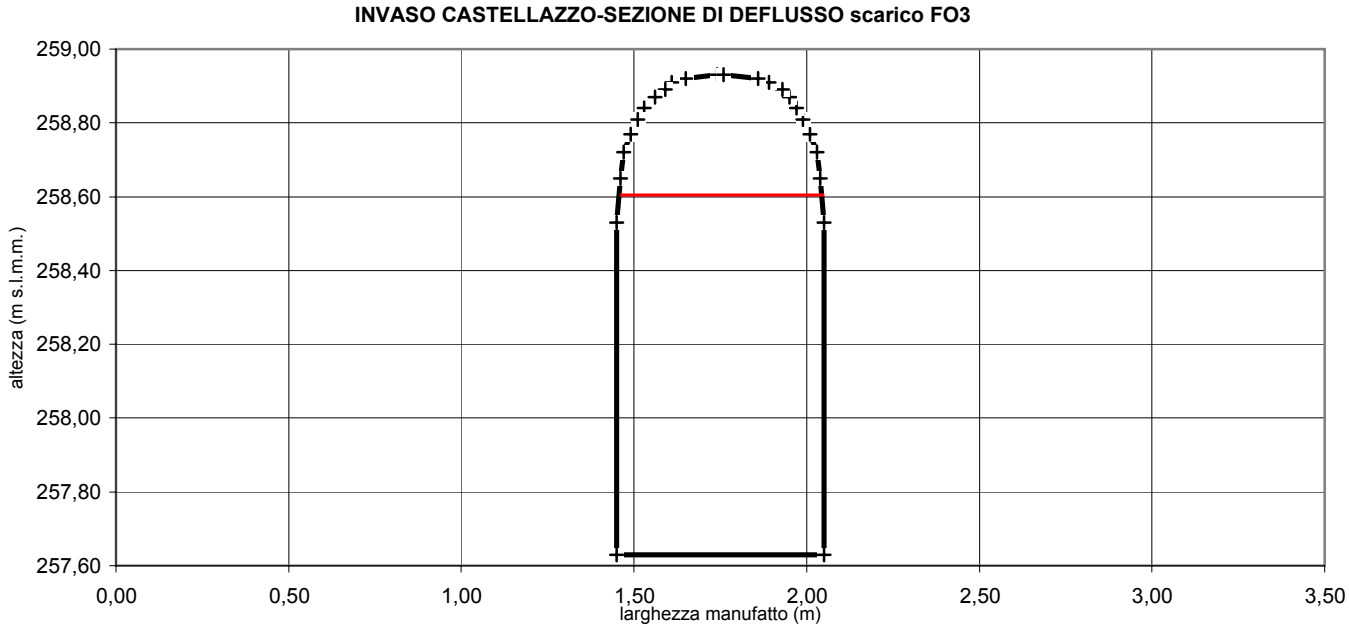
Sezione	N	
Area max	**0,73**	mq
P bagnato	**3,23**	m
R idraulico	**0,23**	m
Liv	**258,90**	m
ne	**0,01700**	sec/m^1/3
inclinazione	**0,00400**	m/m
Qmax	**1,02**	mc/sec
Vel	1,39	m/sec

Livello	**Velocità**	**Portata**
h	*m/s*	*mc/s*
257,80	0,85	**0,09**
257,90	1,01	**0,16**
258,00	1,12	**0,25**
258,10	1,20	**0,34**
258,20	1,26	**0,43**
258,30	1,30	**0,52**
258,40	1,34	**0,62**
258,50	1,37	**0,71**
258,60	1,39	**0,81**
258,70	1,41	**0,90**
258,80	1,41	**0,98**
258,90	1,39	**1,02**

p	**x**	**y**	**n**	**Liv**	**H**	**A**	**B**	**h**	**a**	**P**	**S1**	**S2**	**S**	**R**	**P(n^3/2)**
1	1,74	258,93	0,017	258,90	0,01	-0,09	0,09	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
2	1,65	258,92	0,017	258,90	0,010	-0,04	0,04	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
3	1,61	258,91	0,017	258,90	0,02	-0,02	0,03	0,010	-0,0100	0,014	0,000	0,000	0,000	-0,00354	0,00003
4	1,59	258,89	0,017	258,90	0,02	-0,03	0,04	0,030	-0,0300	0,036	0,000	0,000	-0,001	-0,01664	0,00008
5	1,56	258,87	0,017	258,90	0,03	-0,03	0,04	0,060	-0,0300	0,042	0,000	-0,001	-0,001	-0,03182	0,00009
6	1,53	258,84	0,017	258,90	0,03	-0,02	0,04	0,090	-0,0200	0,036	0,000	-0,001	-0,001	-0,04160	0,00008
7	1,51	258,81	0,017	258,90	0,04	-0,02	0,04	0,130	-0,0200	0,045	0,000	-0,002	-0,002	-0,04919	0,00010
8	1,49	258,77	0,017	258,90	0,05	-0,02	0,05	0,180	-0,0200	0,054	0,000	-0,003	-0,003	-0,05757	0,00012
9	1,47	258,72	0,017	258,90	0,07	-0,01	0,07	0,250	-0,0100	0,071	0,000	-0,002	-0,002	-0,03041	0,00016
10	1,46	258,65	0,017	258,90	0,12	-0,01	0,12	0,370	-0,0100	0,120	-0,001	-0,003	-0,003	-0,02574	0,00027
11	1,45	258,53	0,017	258,90	0,90	0,00	0,90	1,270	0,0000	0,900	0,000	0,000	0,000	0,00000	0,00199
14	1,45	257,63	0,017	258,90	0,00	0,60	0,60	1,270	0,6000	0,600	0,000	0,762	0,762	1,27000	0,00133
15	2,05	257,63	0,017	258,90	0,90	0,00	0,90	1,270	0,0000	0,900	0,000	0,000	0,000	0,00000	0,00199
18	2,05	258,53	0,017	258,90	0,12	-0,01	0,12	0,370	-0,0100	0,120	-0,001	-0,002	-0,003	-0,02574	0,00027
19	2,04	258,65	0,017	258,90	0,07	-0,01	0,07	0,250	-0,0100	0,071	0,000	-0,002	-0,002	-0,03041	0,00016
20	2,03	258,72	0,017	258,90	0,05	-0,02	0,05	0,180	-0,0200	0,054	0,000	-0,003	-0,003	-0,05757	0,00012
21	2,01	258,77	0,017	258,90	0,04	-0,02	0,04	0,130	-0,0200	0,045	0,000	-0,002	-0,002	-0,04919	0,00010
22	1,99	258,81	0,017	258,90	0,03	-0,02	0,04	0,090	-0,0200	0,036	0,000	-0,001	-0,001	-0,04160	0,00008
23	1,97	258,84	0,017	258,90	0,03	-0,02	0,04	0,060	-0,0200	0,036	0,000	-0,001	-0,001	-0,02496	0,00008
24	1,95	258,87	0,017	258,90	0,02	-0,02	0,03	0,030	-0,0200	0,028	0,000	0,000	0,000	-0,01414	0,00006
25	1,93	258,89	0,017	258,90	0,02	-0,04	0,04	0,010	-0,0200	0,022	0,000	0,000	0,000	-0,00447	0,00005
26	1,89	258,91	0,017	258,90	0,01	-0,03	0,03	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
27	1,86	258,92	0,017	258,90	0,010	-0,10	0,10	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
28	1,76	258,93	0,017	258,90	258,93	-1,76	258,94	258,900	0,0000	0,000	0,000	0,000	0,000		0,00000

Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$



VERIFICA 11

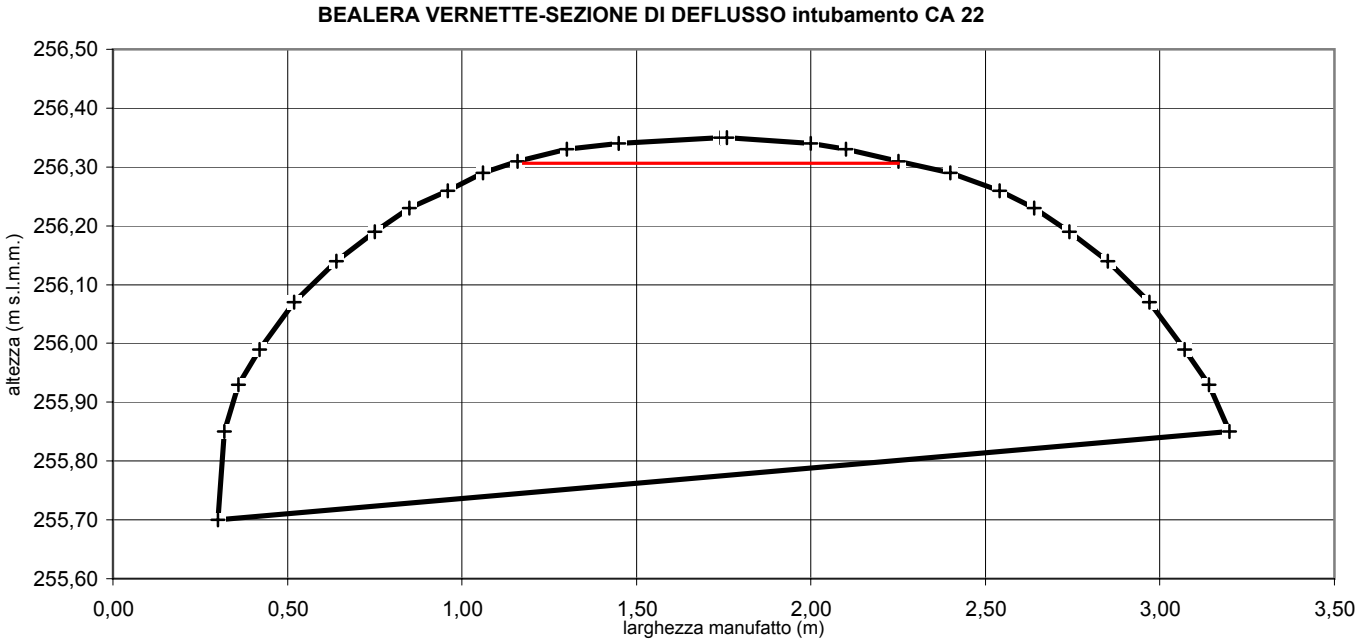
BEALERA VERNETTE - VALUTAZIONE DELLA POSSIBILITA' DI SMALTIMENTO DELLA SEZIONE IDRAULICA (intubamento CA22)

(MOTO UNIFORME)

Sezione	N		p	x	y	n	Liv	H	A	B	h	a	P	S1	S2	S	R	P(n^3/2)
Area max	**1,26**	mq	1	1,74	256,35	0,017	256,30	0,01	-0,29	0,29	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
P bagnato	**5,01**	m	2	1,45	256,34	0,017	256,30	0,01	-0,15	0,15	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
R idraulico	**0,25**	m	3	1,30	256,33	0,017	256,30	0,02	-0,14	0,14	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
Liv	**256,30**	m	4	1,16	256,31	0,017	256,30	0,02	-0,10	0,10	0,010	-0,0500	0,051	0,000	0,000	0,000	-0,00490	0,00011
ne	**0,01700**	sec/m^1/3	5	1,06	256,29	0,017	256,30	0,03	-0,10	0,10	0,040	-0,1000	0,104	-0,002	-0,001	-0,003	-0,02395	0,00023
inclinazione	**0,00500**	m/m	6	0,96	256,26	0,017	256,30	0,03	-0,11	0,11	0,070	-0,1100	0,114	-0,002	-0,004	-0,006	-0,05306	0,00025
Qmax	**2,09**	mc/sec	7	0,85	256,23	0,017	256,30	0,04	-0,10	0,11	0,110	-0,1000	0,108	-0,002	-0,007	-0,009	-0,08356	0,00024
			8	0,75	256,19	0,017	256,30	0,05	-0,11	0,12	0,160	-0,1100	0,121	-0,003	-0,012	-0,015	-0,12290	0,00027
Vel	1,66	m/sec	9	0,64	256,14	0,017	256,30	0,07	-0,12	0,14	0,230	-0,1200	0,139	-0,004	-0,019	-0,023	-0,16844	0,00031
			10	0,52	256,07	0,017	256,30	0,08	-0,10	0,13	0,310	-0,1000	0,128	-0,004	-0,023	-0,027	-0,21083	0,00028
			11	0,42	255,99	0,017	256,30	0,06	-0,06	0,08	0,370	-0,0600	0,085	-0,002	-0,019	-0,020	-0,24042	0,00019
			12	0,36	255,93	0,017	256,30	0,08	-0,04	0,09	0,450	-0,0400	0,089	-0,002	-0,015	-0,016	-0,18336	0,00020
			12	0,32	255,85	0,017	256,30	0,15	-0,02	0,15	0,600	-0,0200	0,151	-0,002	-0,009	-0,011	-0,06939	0,00034
			13	0,30	255,70	0,017	256,30	0,15	2,90	2,90	0,600	2,9000	2,904	0,218	1,305	1,523	0,52430	0,00644
			16	3,20	255,85	0,017	256,30	0,08	-0,06	0,10	0,450	-0,0600	0,100	-0,002	-0,022	-0,025	-0,24600	0,00022
			17	3,14	255,93	0,017	256,30	0,06	-0,07	0,09	0,370	-0,0700	0,092	-0,002	-0,022	-0,024	-0,25815	0,00020
			18	3,07	255,99	0,017	256,30	0,08	-0,10	0,13	0,310	-0,1000	0,128	-0,004	-0,023	-0,027	-0,21083	0,00028
			19	2,97	256,07	0,017	256,30	0,07	-0,12	0,14	0,230	-0,1200	0,139	-0,004	-0,019	-0,023	-0,16844	0,00031
			20	2,85	256,14	0,017	256,30	0,05	-0,11	0,12	0,160	-0,1100	0,121	-0,003	-0,012	-0,015	-0,12290	0,00027
			21	2,74	256,19	0,017	256,30	0,04	-0,10	0,11	0,110	-0,1000	0,108	-0,002	-0,007	-0,009	-0,08356	0,00024
			22	2,64	256,23	0,017	256,30	0,03	-0,10	0,10	0,070	-0,1000	0,104	-0,001	-0,004	-0,006	-0,05268	0,00023
			23	2,54	256,26	0,017	256,30	0,03	-0,14	0,14	0,040	-0,1400	0,143	-0,002	-0,001	-0,004	-0,02445	0,00032
			24	2,4	256,29	0,017	256,30	0,02	-0,15	0,15	0,010	-0,0750	0,076	0,000	0,000	0,000	-0,00496	0,00017
			25	2,25	256,31	0,017	256,30	0,02	-0,15	0,15	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
			26	2,1	256,33	0,017	256,30	0,01	-0,10	0,10	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
			27	2	256,34	0,017	256,30	0,01	-0,24	0,24	0,000	0,0000	0,000	0,000	0,000	0,000		0,00000
			28	1,76	256,35	0,017	256,30	256,35	-1,76	256,36	256,300	0,0000	0,000	0,000	0,000	0,000		0,00000

Equazione di Manning

$$Vi = (1/n_e)R^{2/3}\ incl.^{1/2}$$



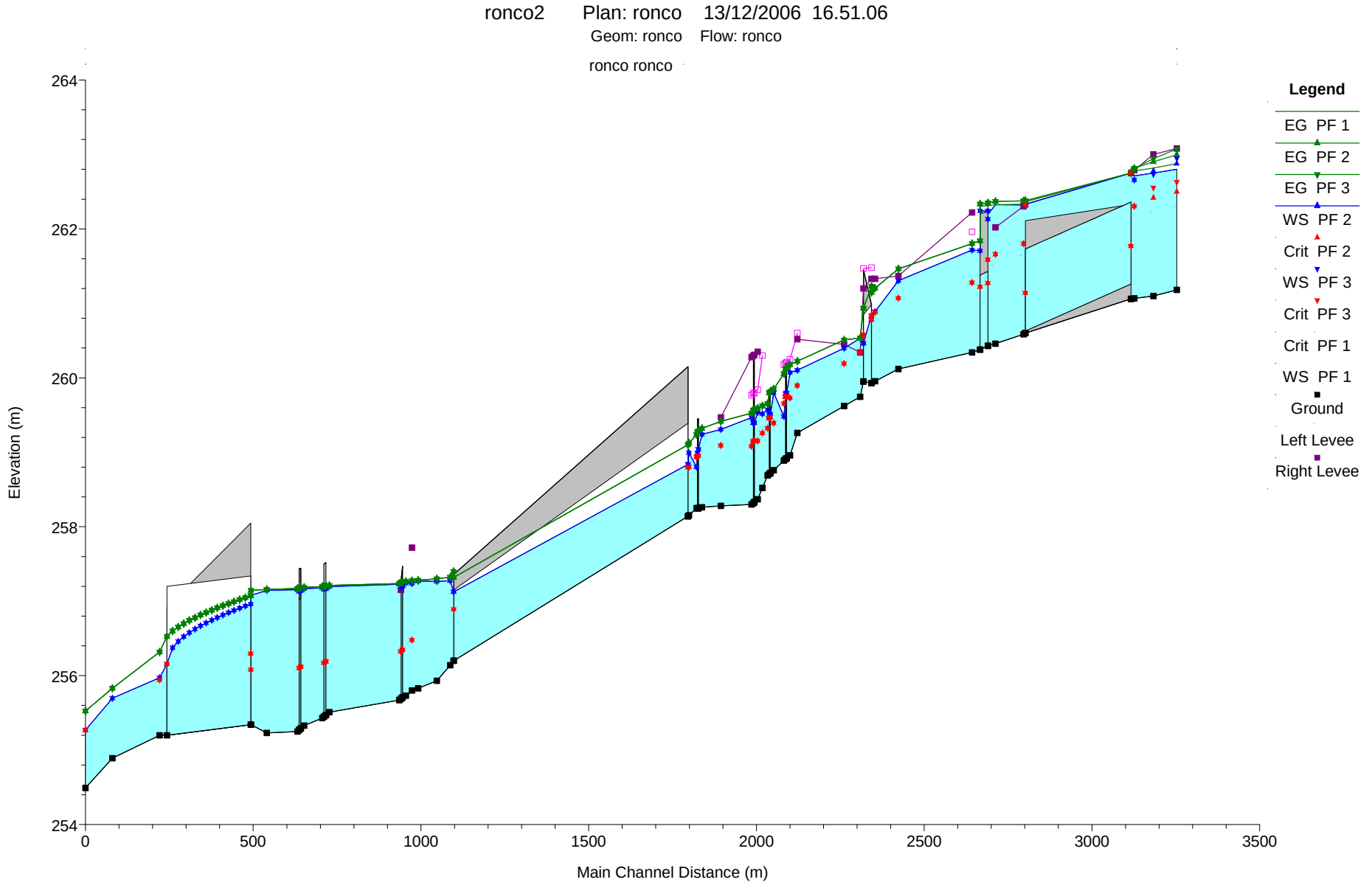
Parte 2a:

MODELLO 1 – Bealera Chisonetto/Ronco

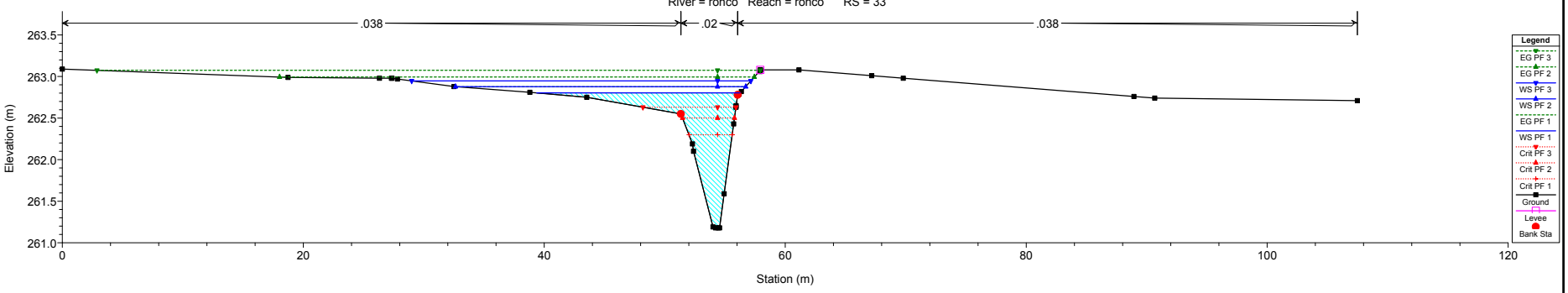
Via Carducci 15, 13044 CRESCENTINO (VC)
Tel. 0161842055/3482443334
Dom. fisc. Via Piazzone 19 10020 BROZOLO (TO)

e-mail marco.novo@plion.it
marco.novo@geologipiemonte.it

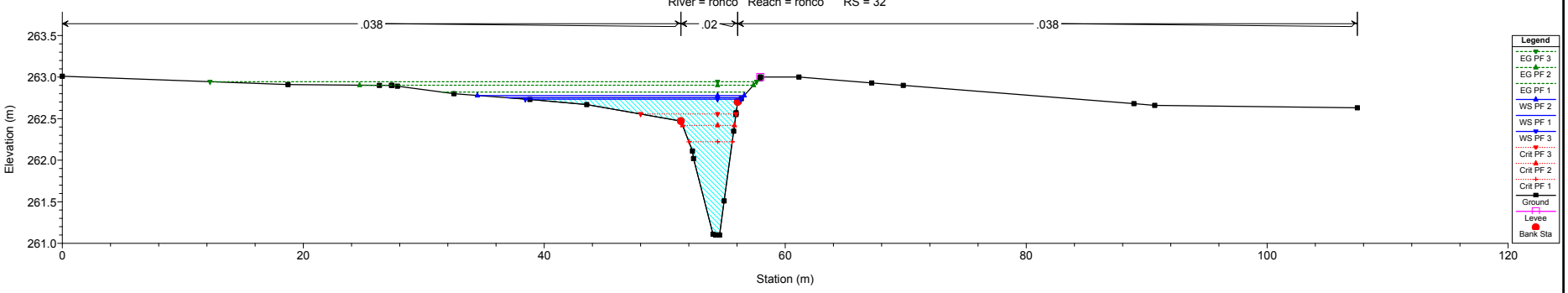
n.419 Ordine dei Geologi del Piemonte (P.IVA 07633500017)


ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
ronco ronco
Elevation (m)
264
262
260
258
256
254
0
500
1000
1500
2000
2500
3000
3500
Main Channel Distance (m)
Legend
EG PF 1
EG PF 2
EG PF 3
WS PF 2
Crit PF 2
WS PF 3
Crit PF 3
Crit PF 1
WS PF 1
Ground
Left Levee
Right Levee

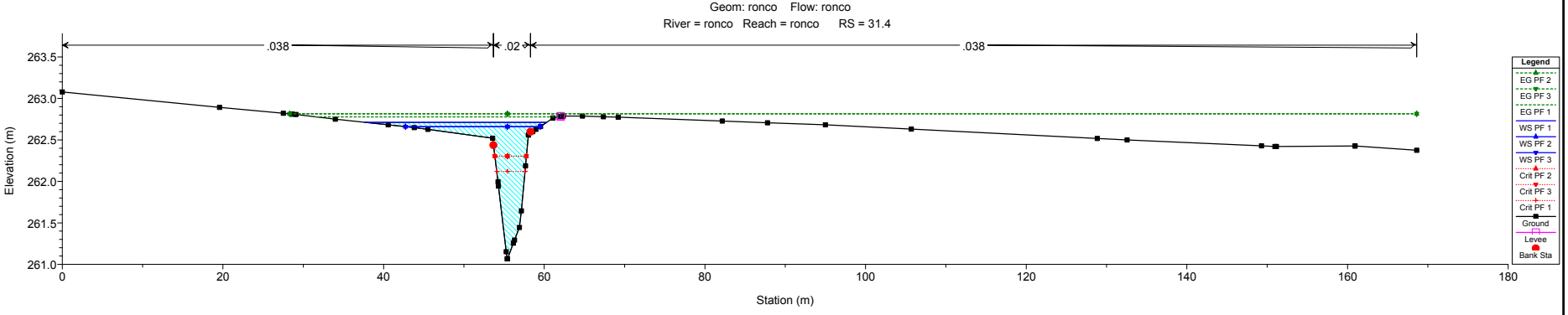
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 33



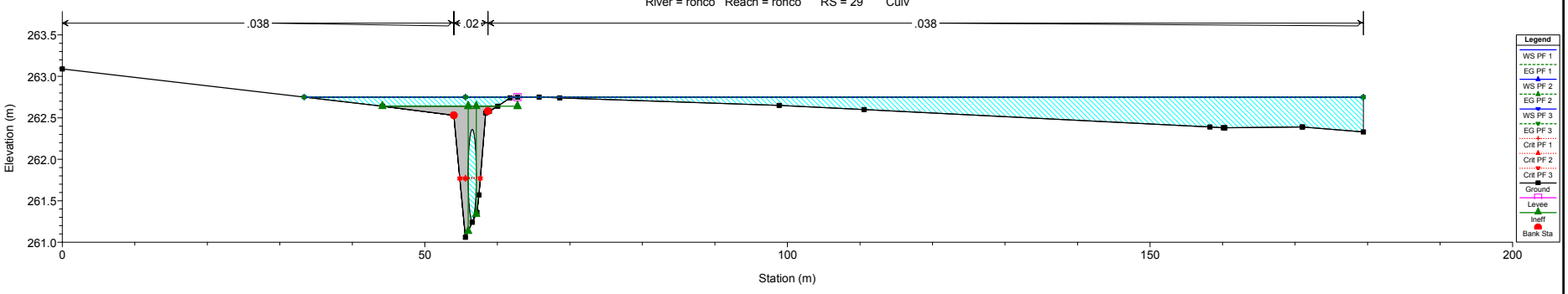
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 32



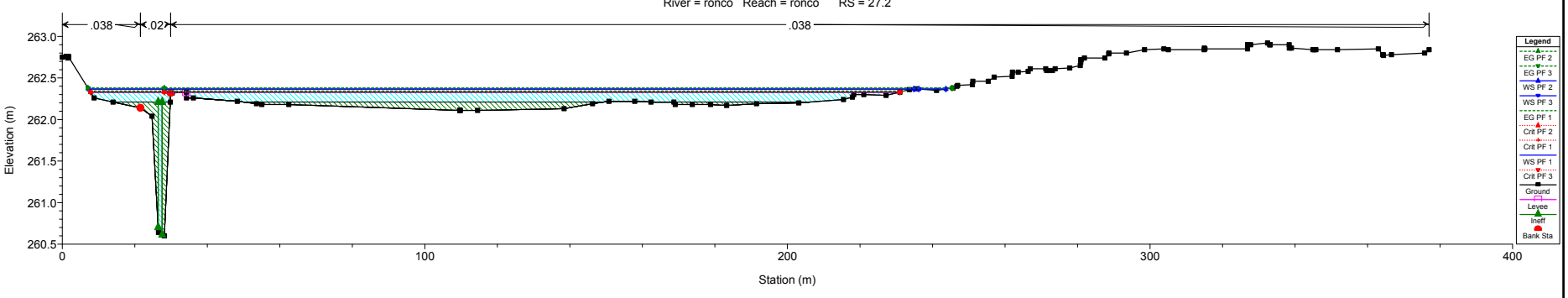
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 31.4



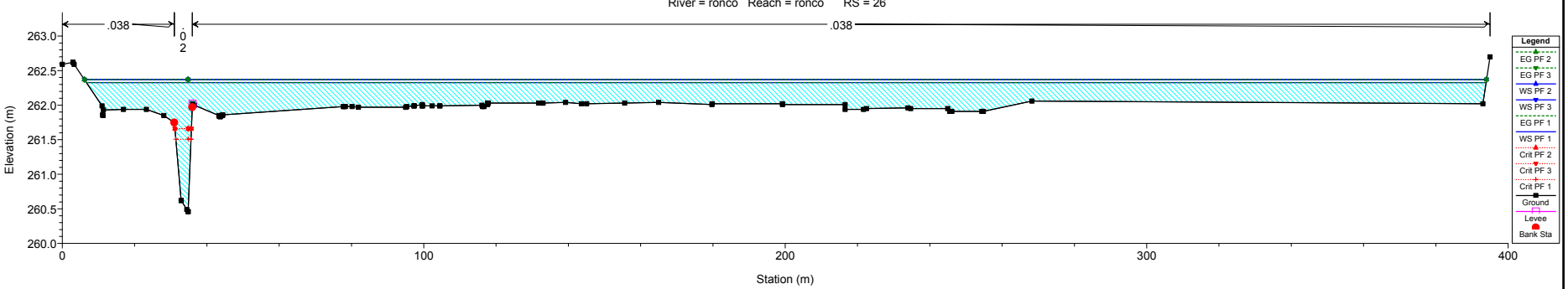
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 29 Culv



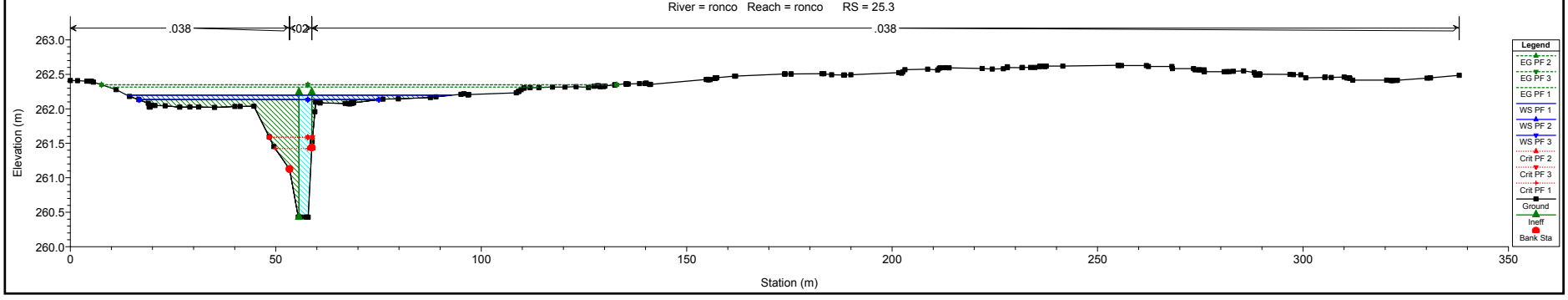
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 27.2



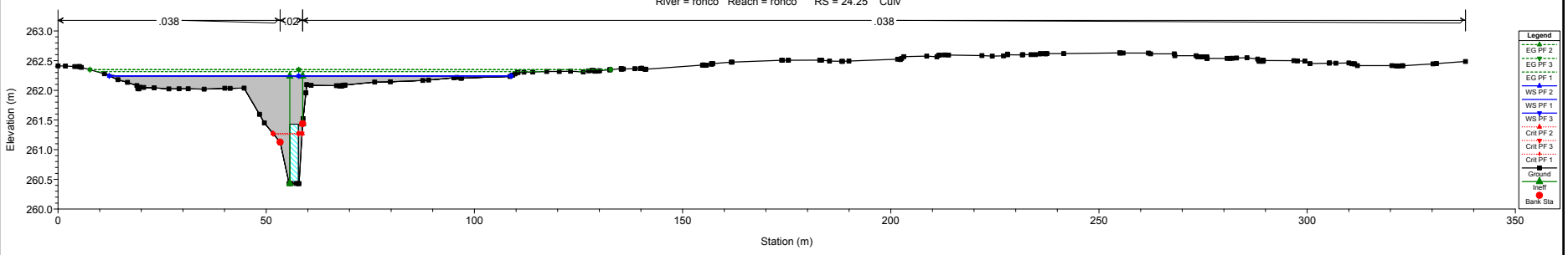
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 26



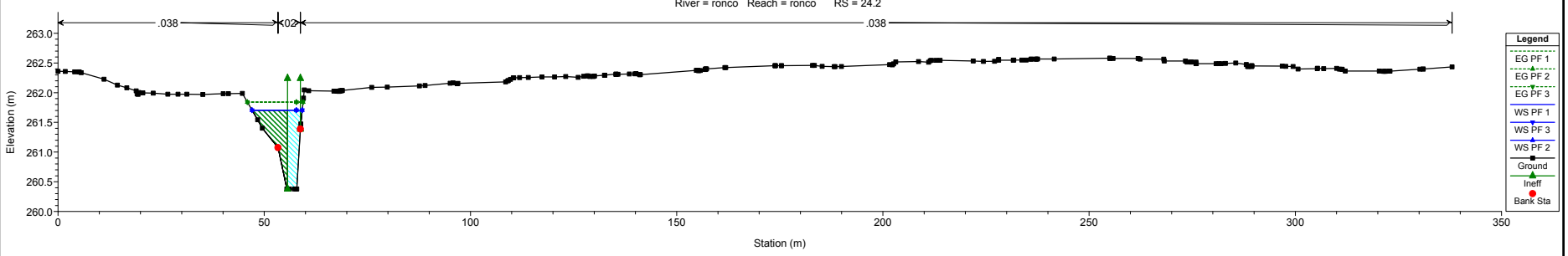
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 25.3



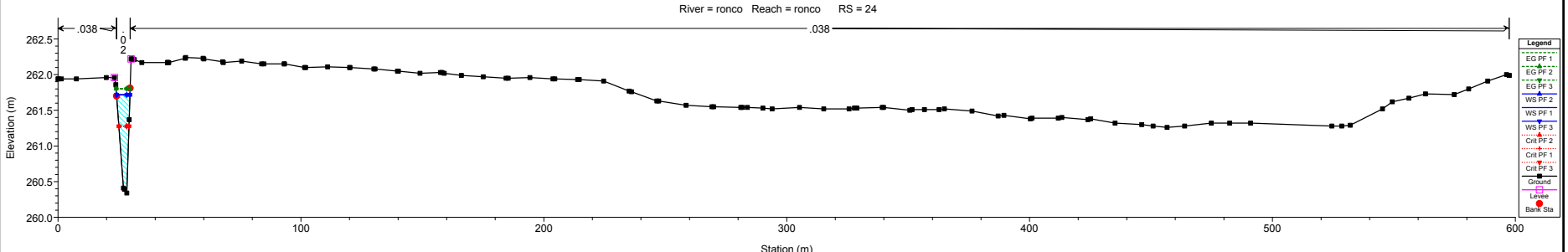
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 24.25 Culv



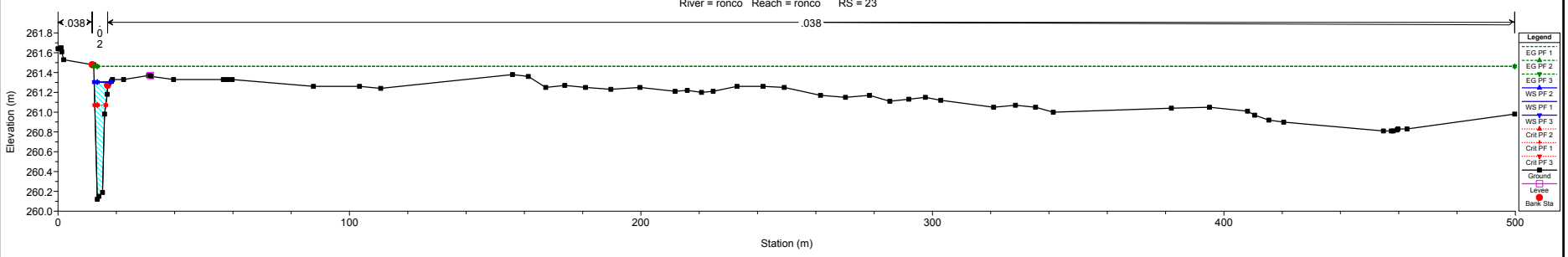
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 24.2



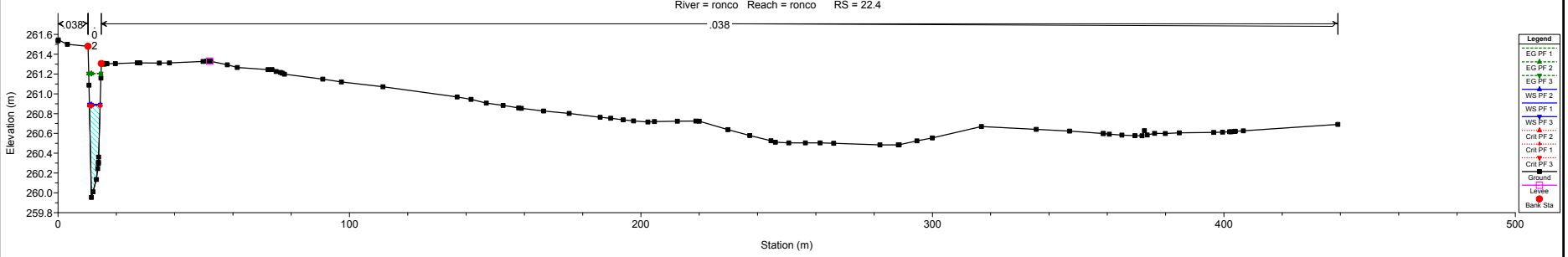
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 24



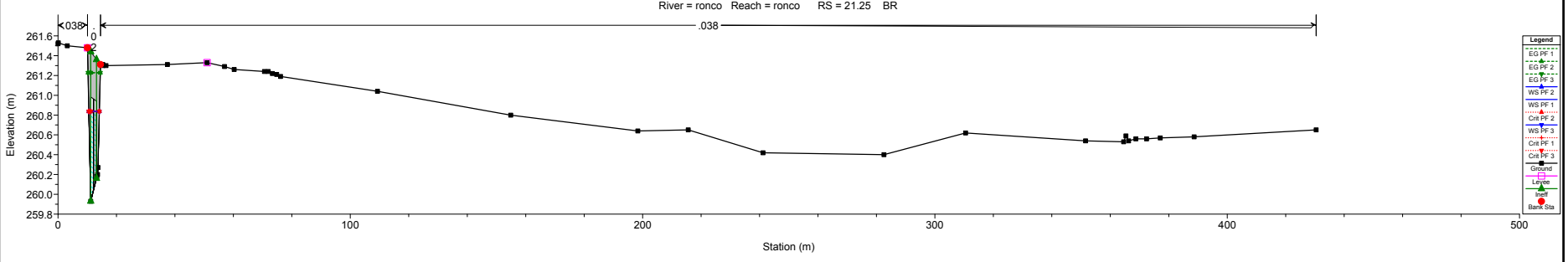
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 23



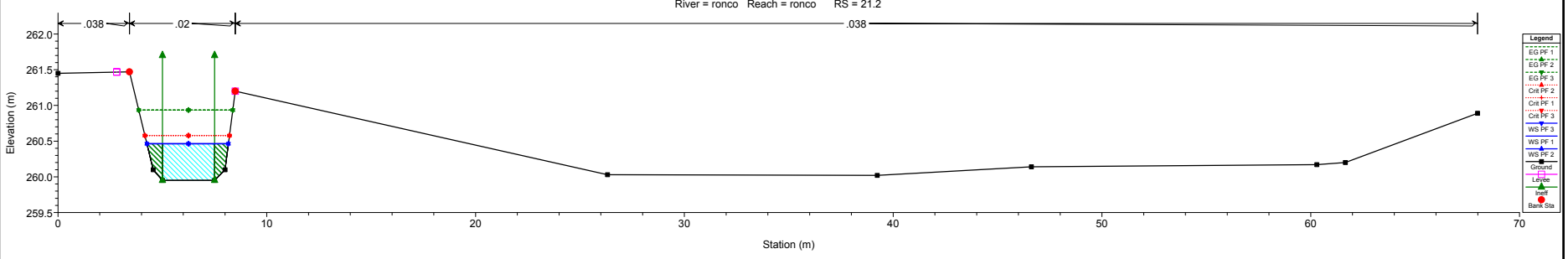
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 22.4



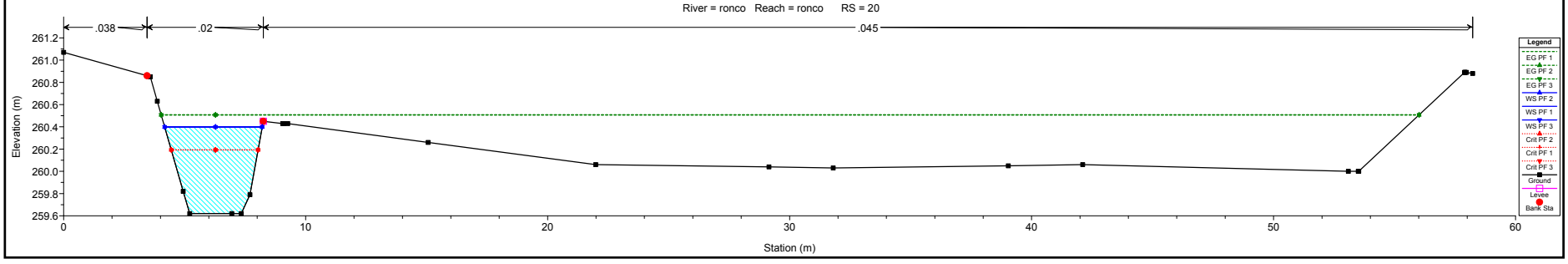
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 21.25 BR



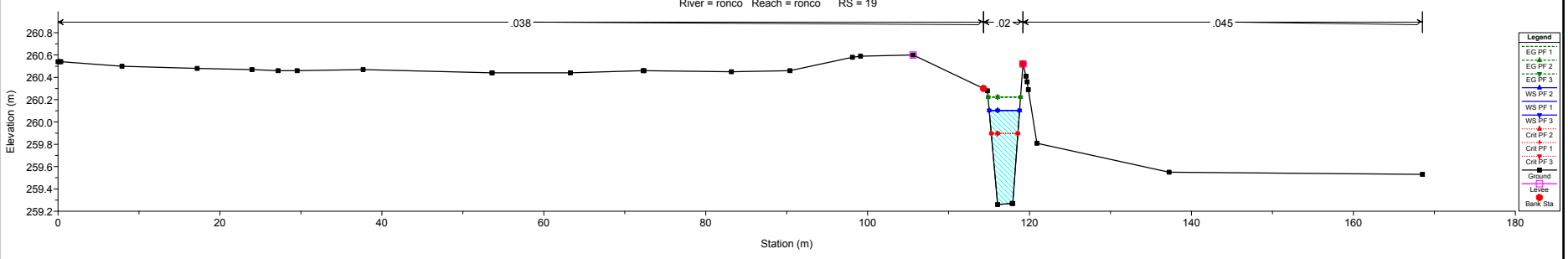
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 21.2



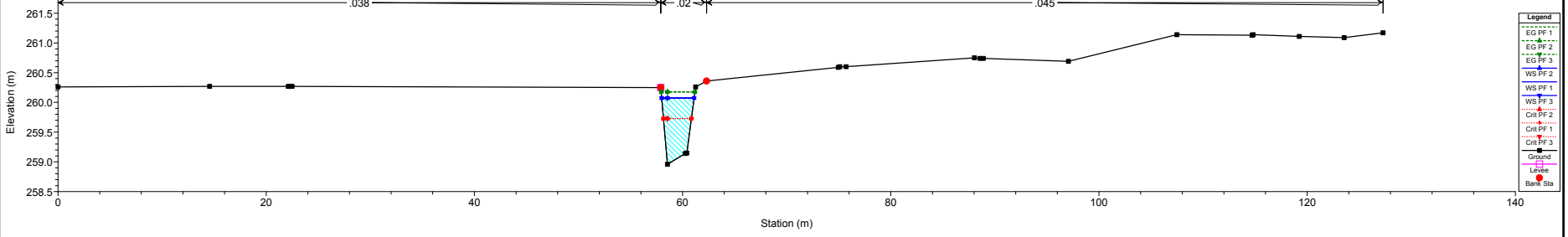
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 20



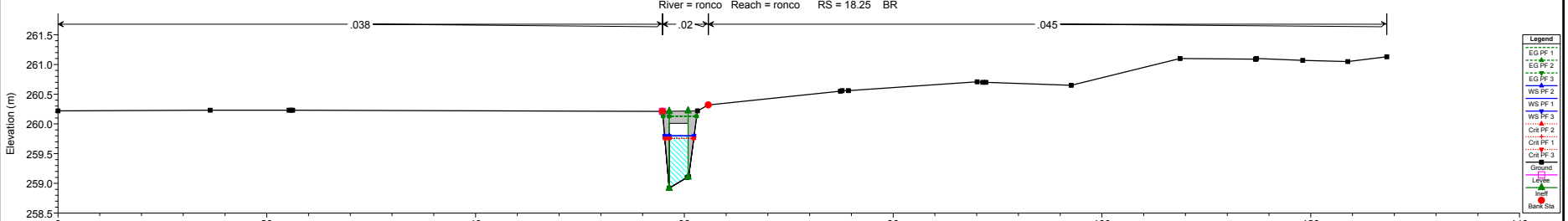
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 19



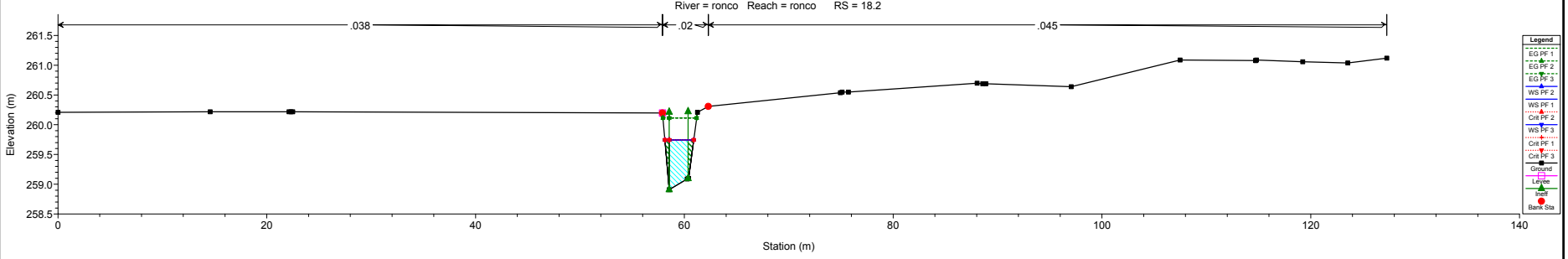
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 18.4



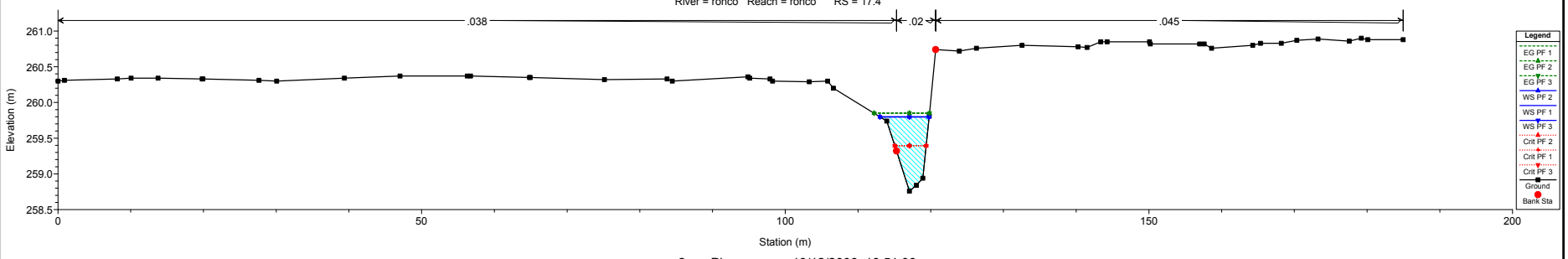
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 18.25 BR



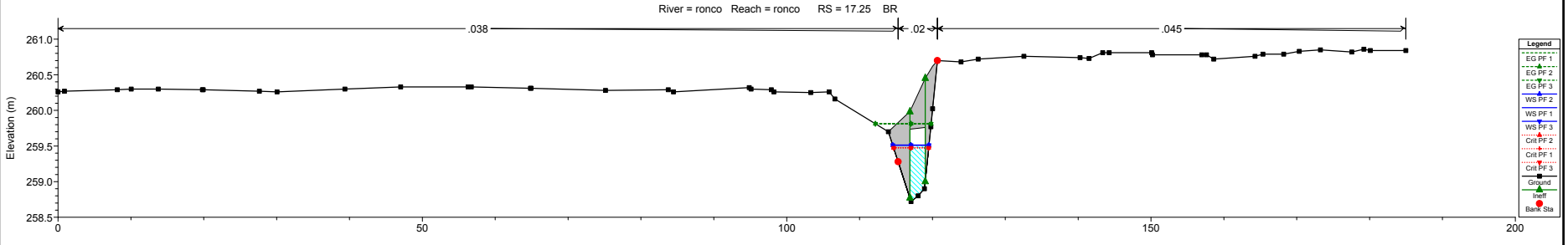
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 18.2



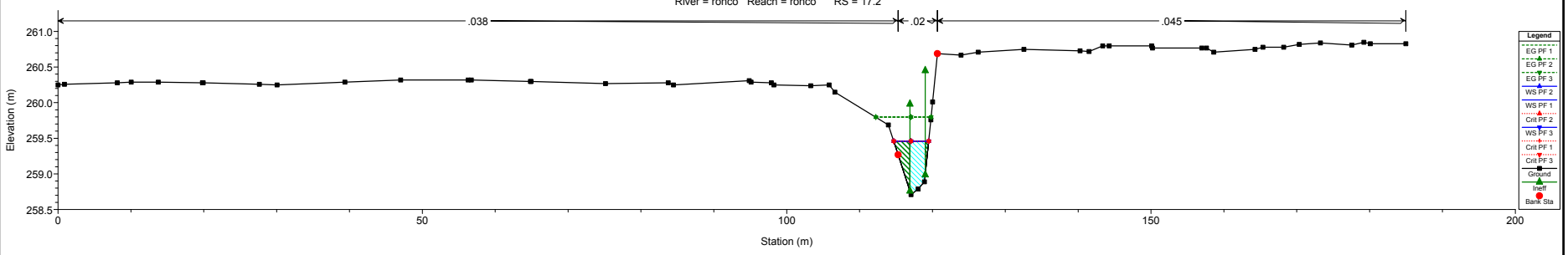
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 17.4



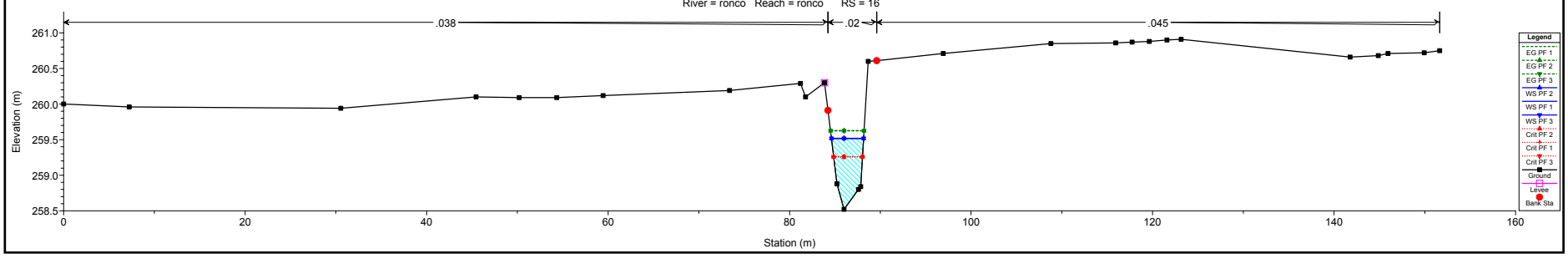
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 17.25 BR



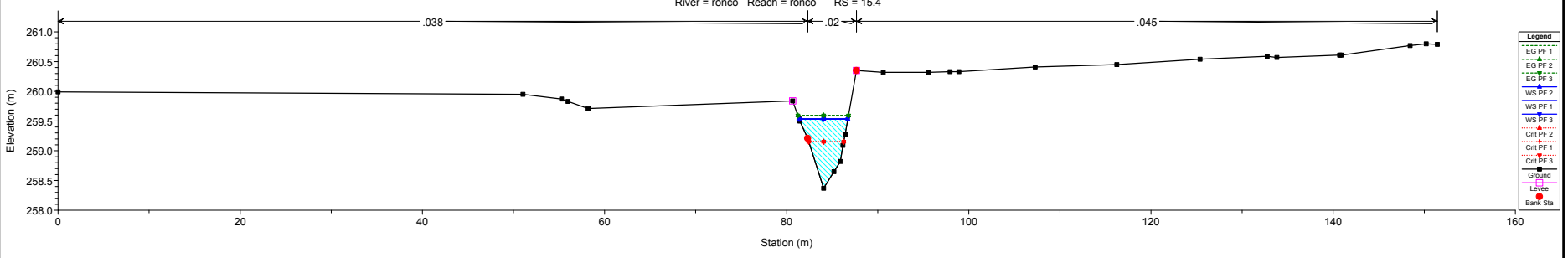
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 17.2



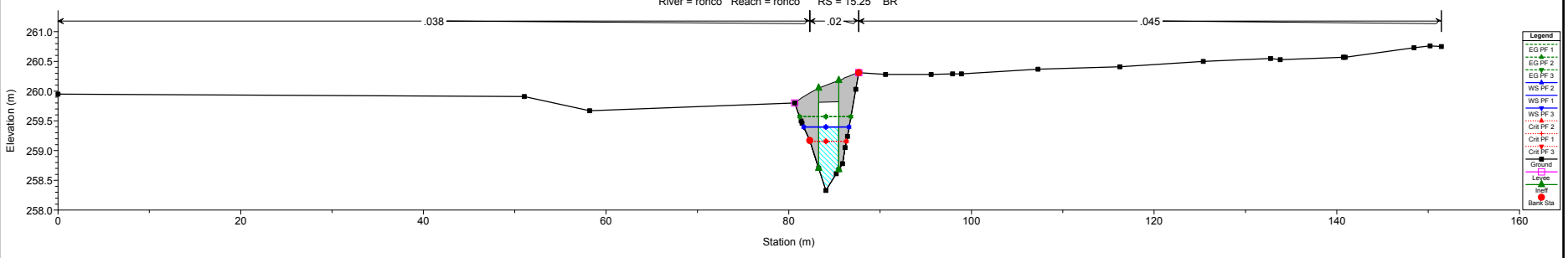
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 16



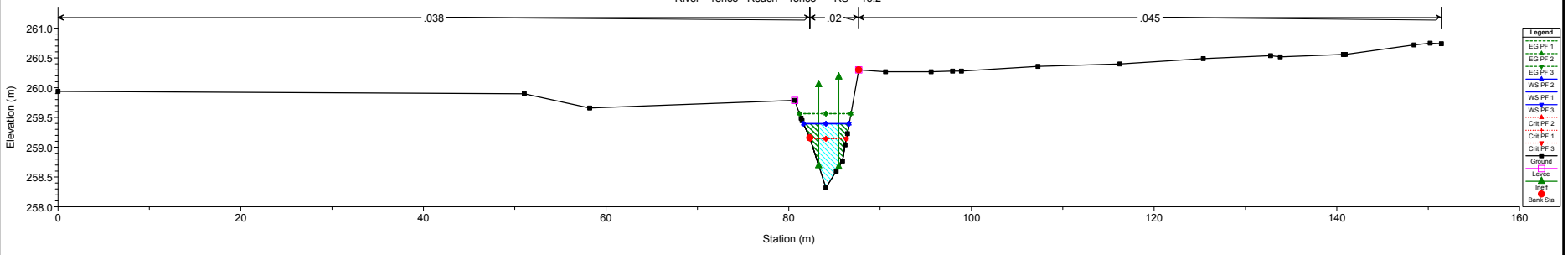
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 15.4



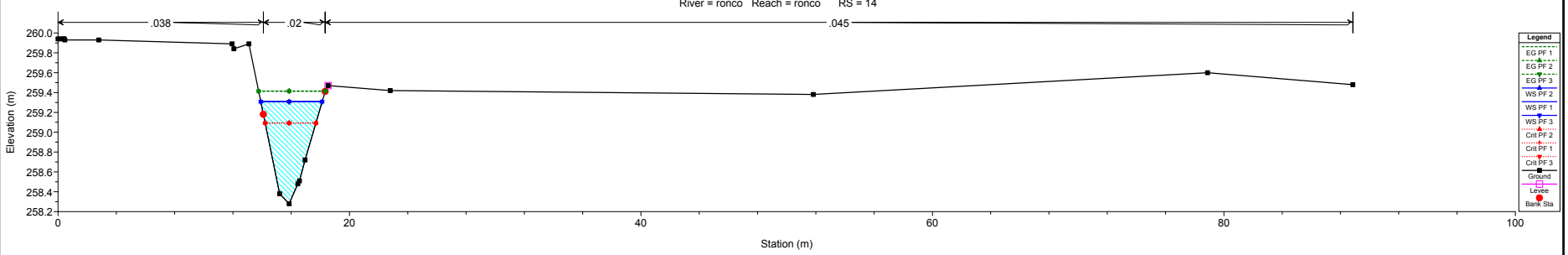
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 15.25 BR



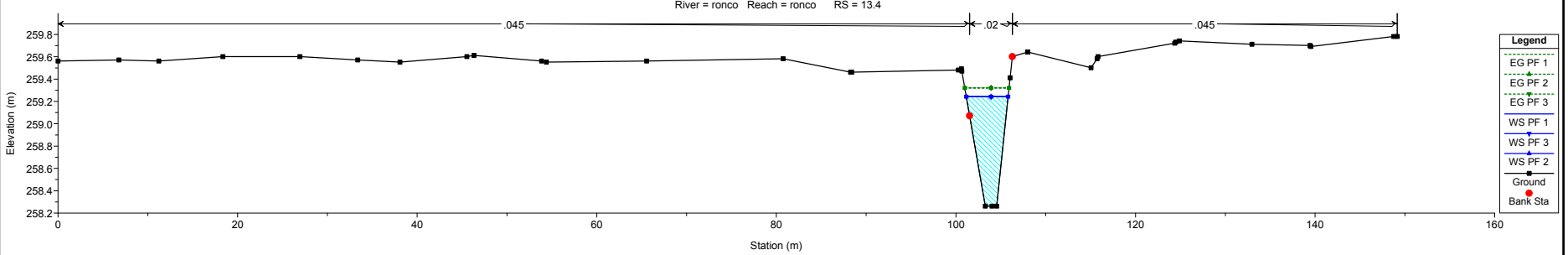
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 15.2



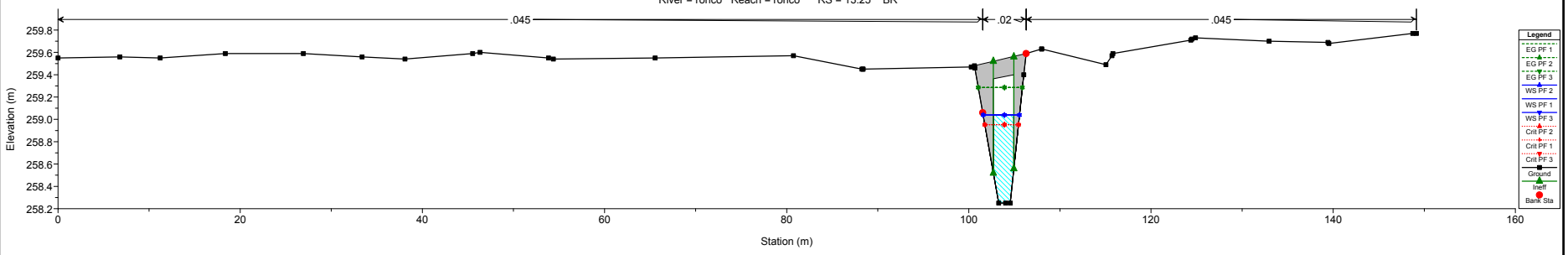
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 14



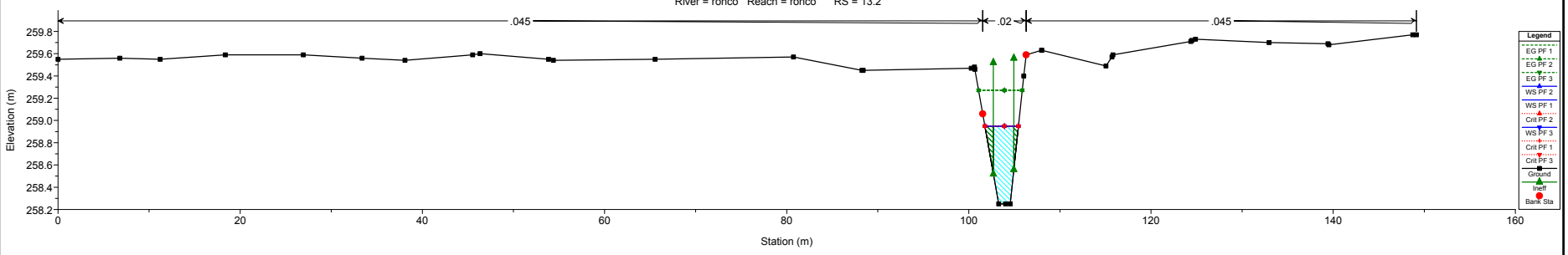
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 13.4



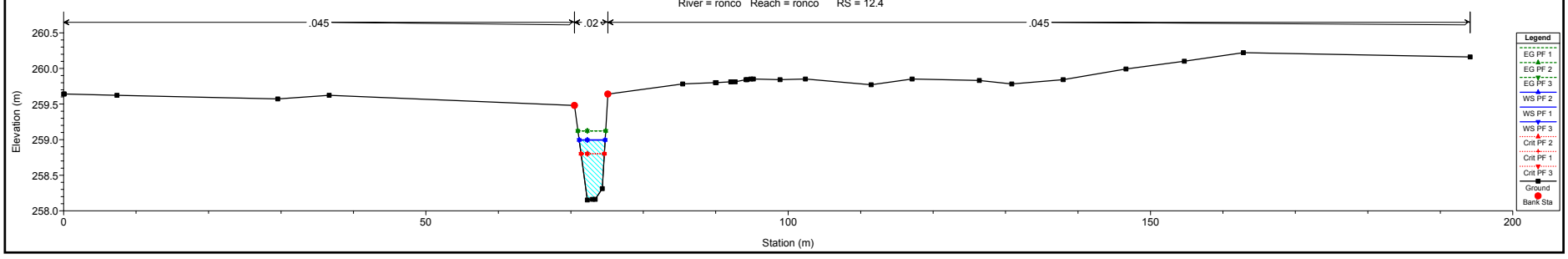
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 13.25 BR



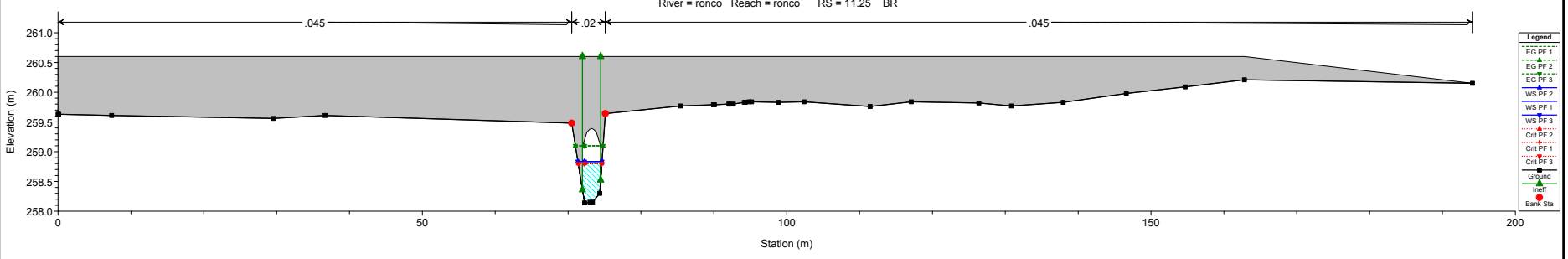
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 13.2



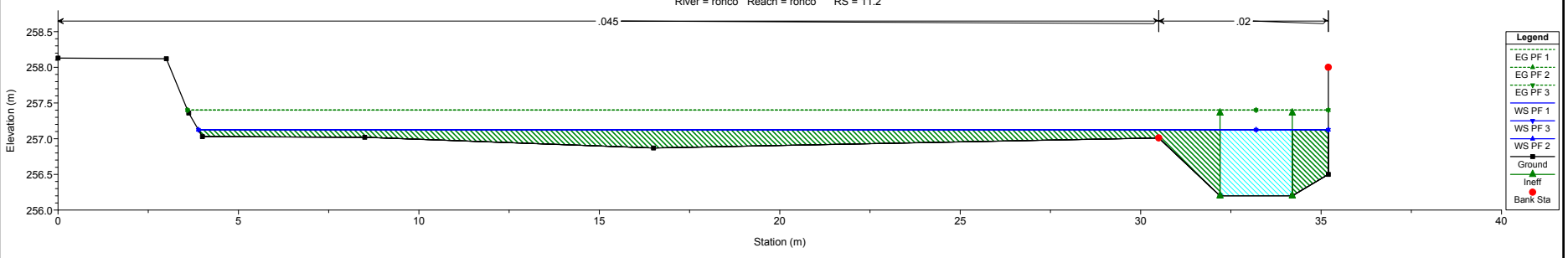
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 12.4



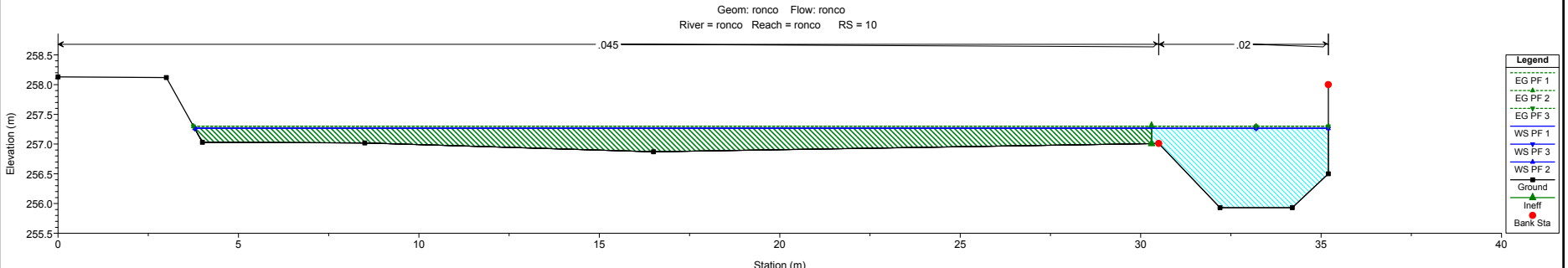
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 11.25 BR



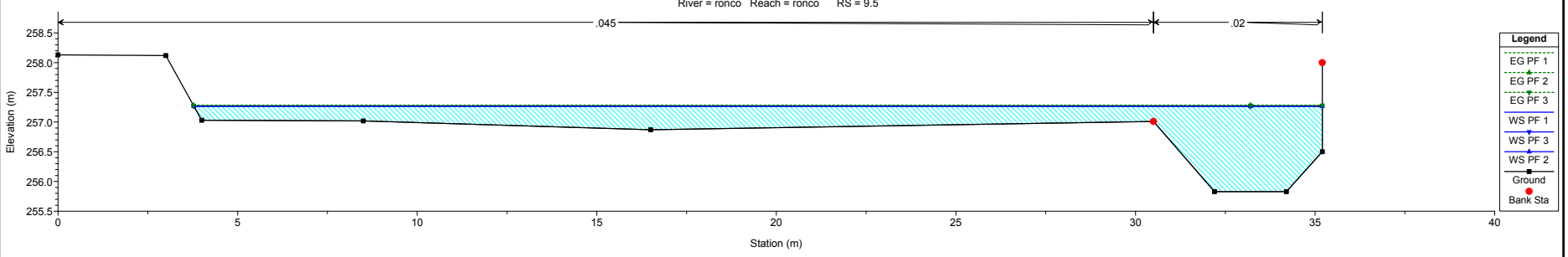
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 11.2



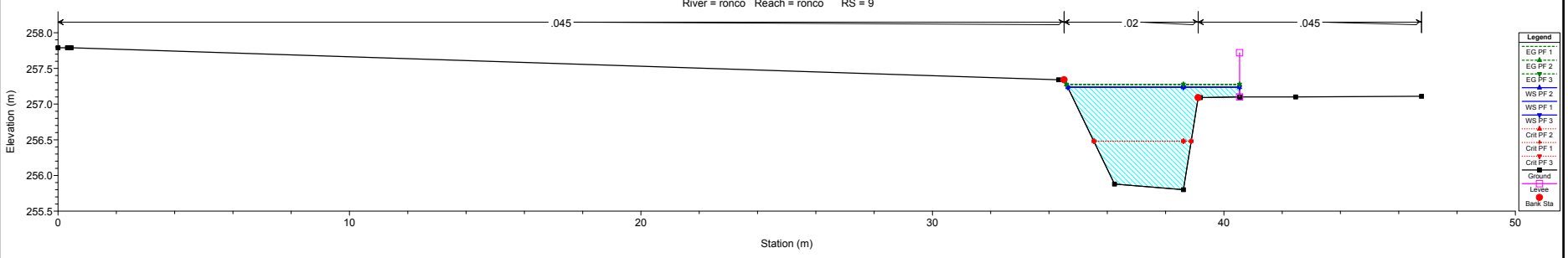
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 10



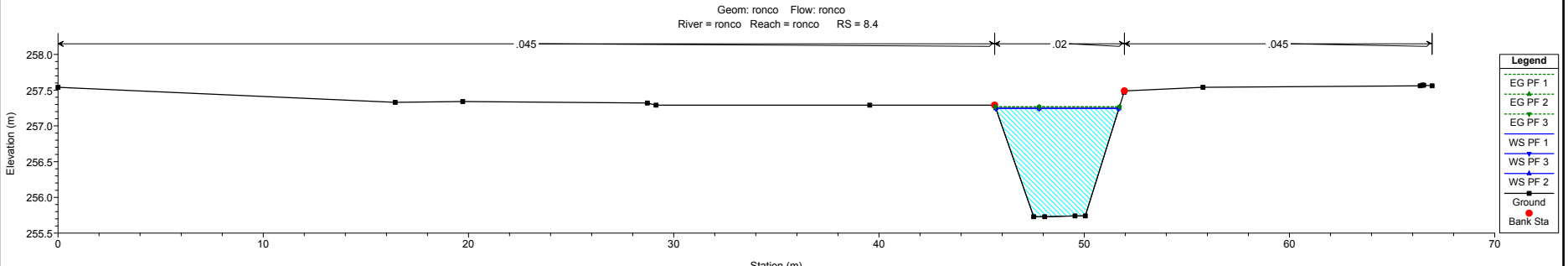
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 9.5



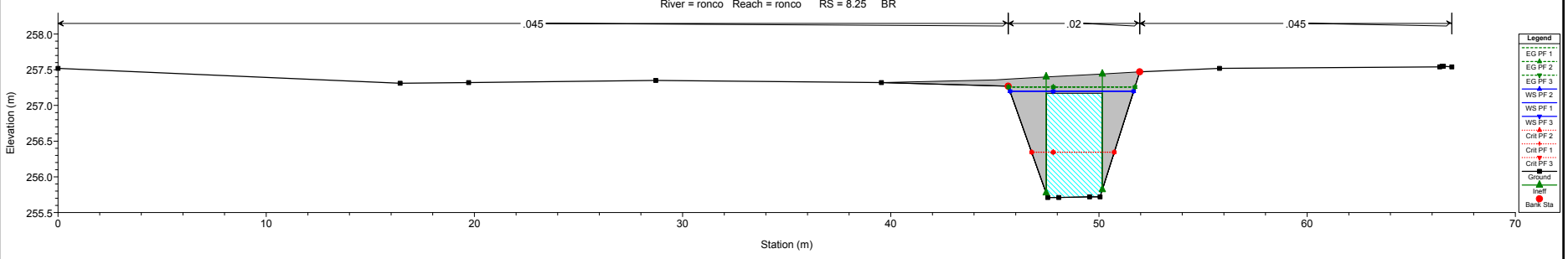
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 9



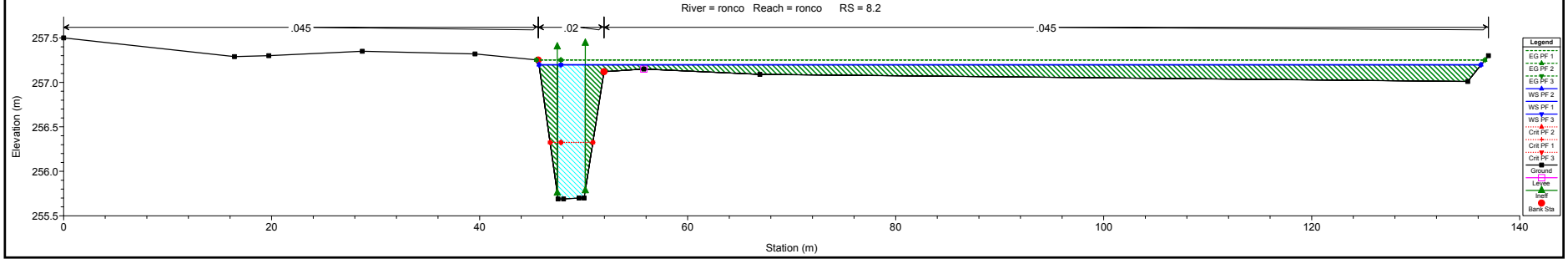
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 8.4



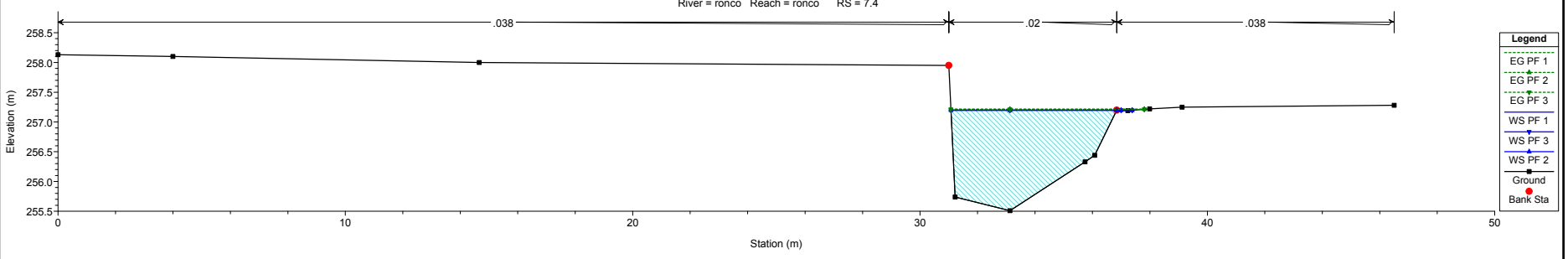
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 8.25 BR



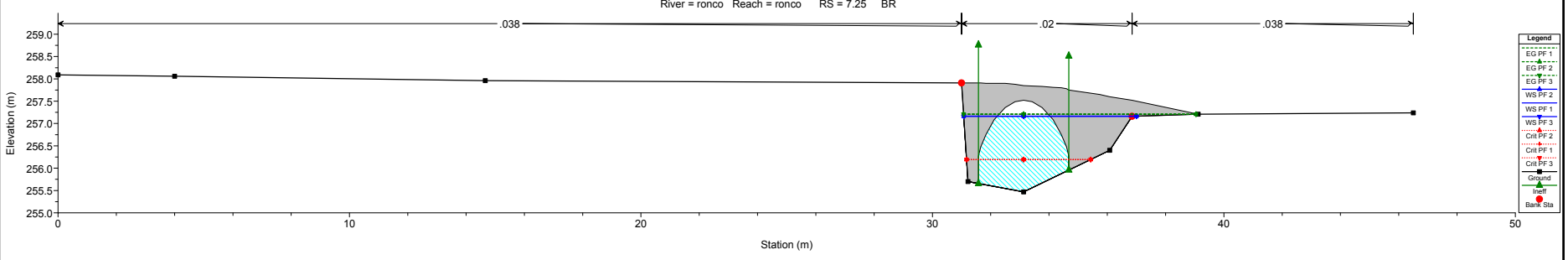
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 8.2



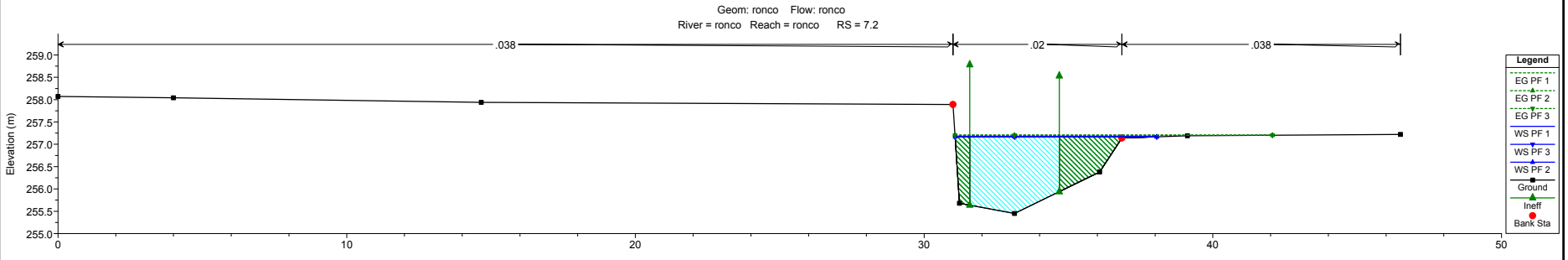
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 7.4



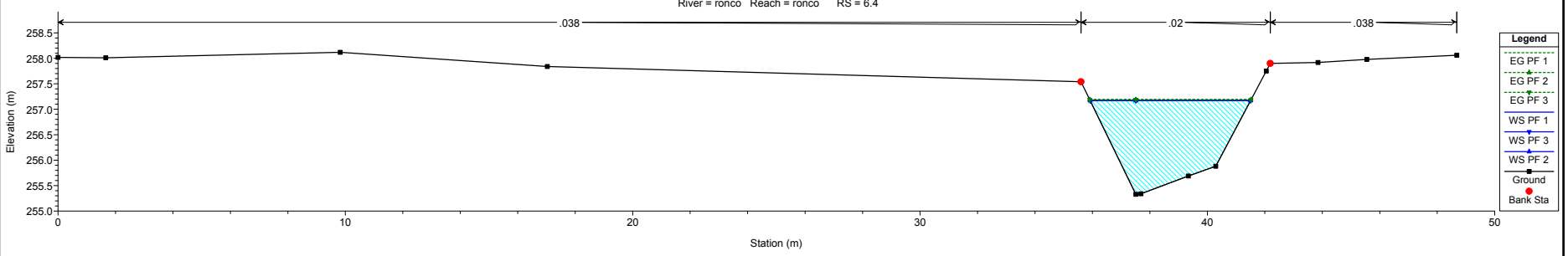
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 7.25 BR



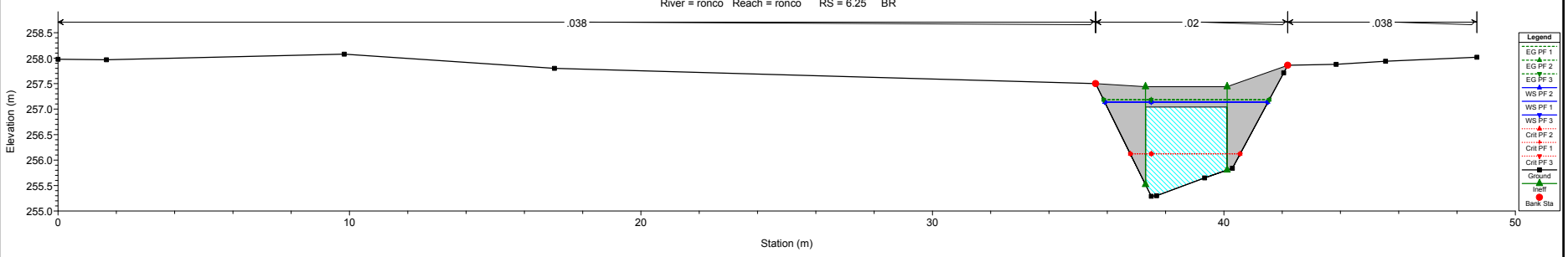
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 7.2



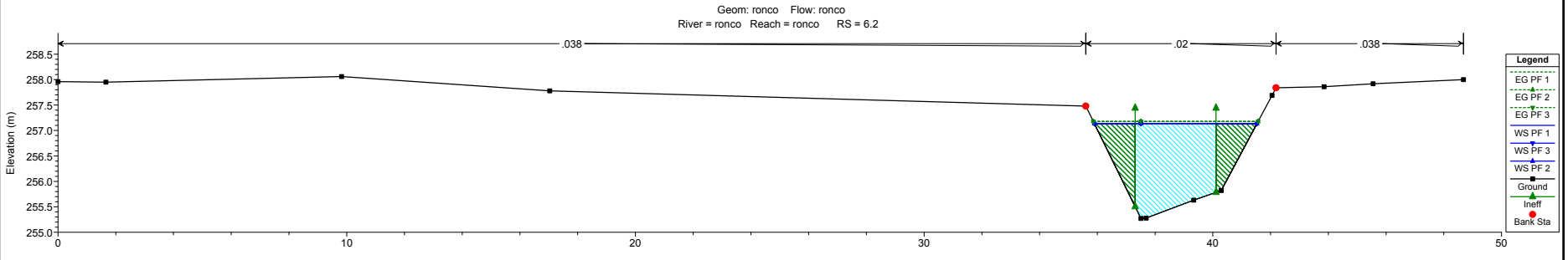
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 6.4



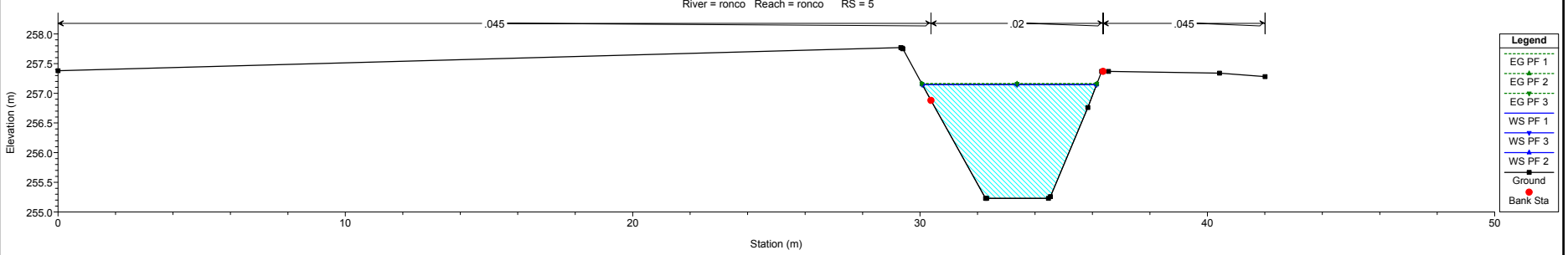
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 6.25 BR



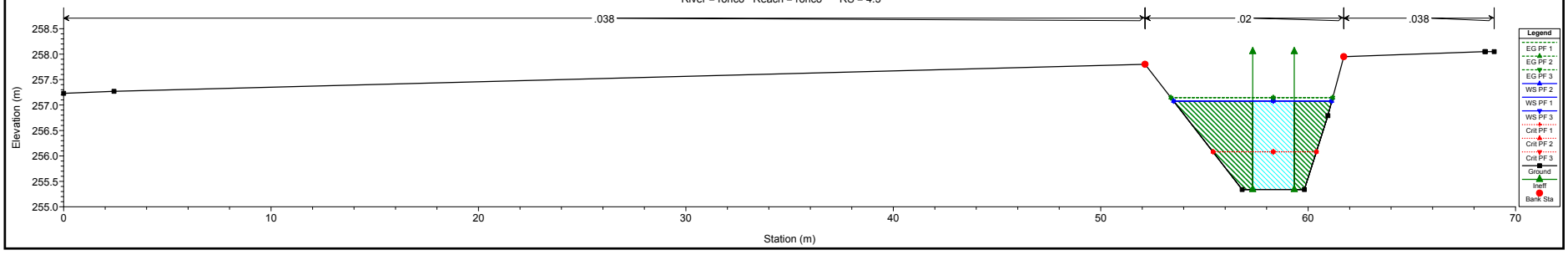
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 6.2



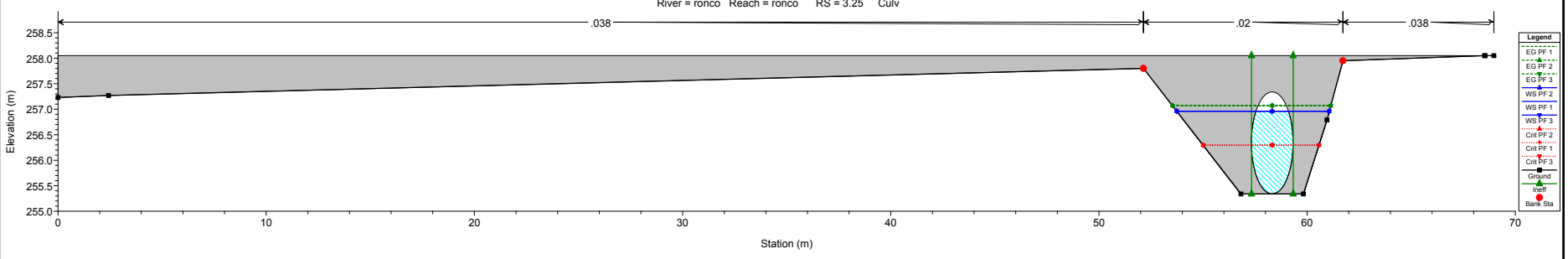
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 5



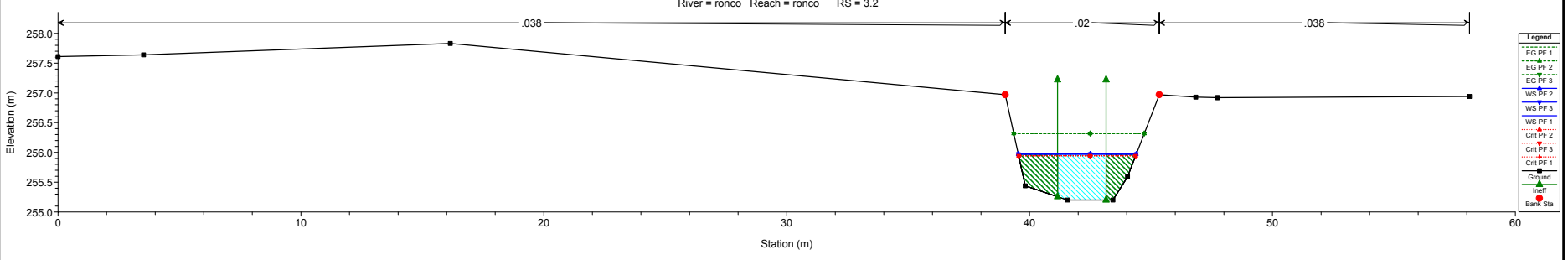
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 4.3



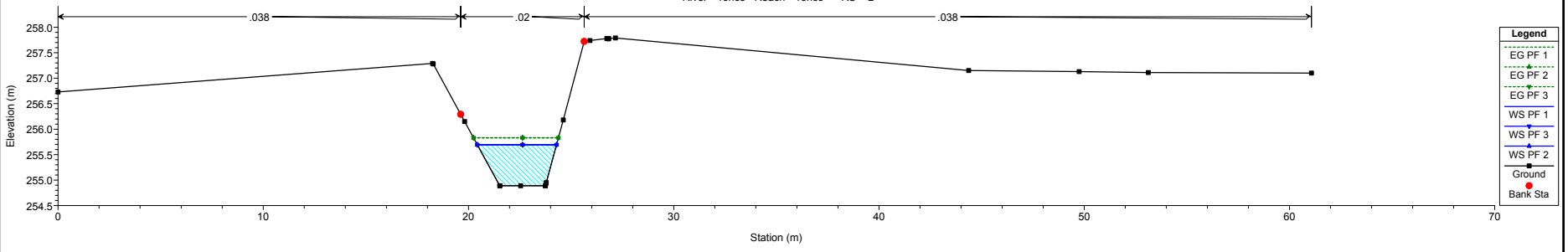
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 3.25 Culv



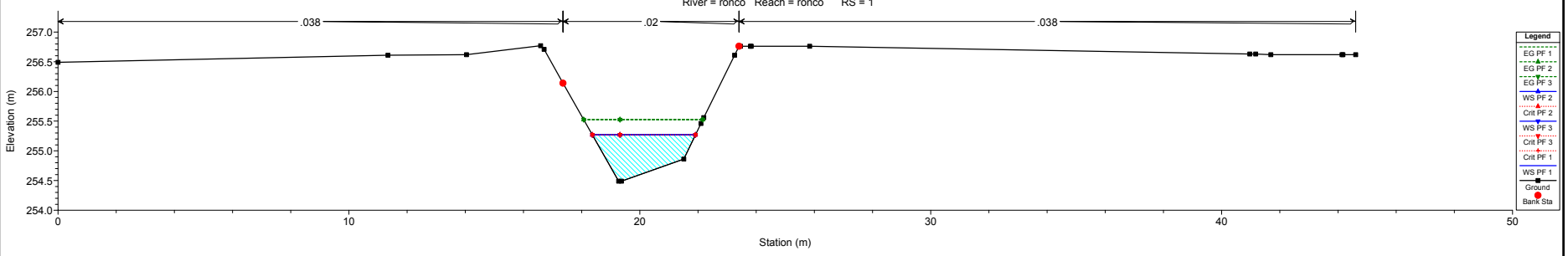
ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 3.2



ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 2



ronco2 Plan: ronco 13/12/2006 16.51.06
Geom: ronco Flow: ronco
River = ronco Reach = ronco RS = 1



Plan: ronco ronco ronco RS: 33 Profile: PF 1

E.G. Elev (m)	262.88	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.80	Reach Len. (m)	70.00	70.00	70.00
Crit W.S. (m)	262.30	Flow Area (m2)	1.30	4.46	0.00
E.G. Slope (m/m)	0.000847	Area (m2)	1.30	4.46	0.00
Q Total (m3/s)	5.70	Flow (m3/s)	0.23	5.47	0.00
Top Width (m)	16.88	Top Width (m)	11.96	4.71	0.21
Vel Total (m/s)	0.99	Avg. Vel. (m/s)	0.17	1.23	0.04
Max Chl Dpth (m)	1.62	Hydr. Depth (m)	0.11	0.95	0.01
Conv. Total (m3/s)	195.8	Conv. (m3/s)	7.8	188.0	0.0
Length Wtd. (m)	70.00	Wetted Per. (m)	11.97	5.75	0.21
Min Ch El (m)	261.18	Shear (N/m2)	0.90	6.44	0.11
Alpha	1.48	Stream Power (N/m s)	0.16	7.91	0.00
Frctn Loss (m)	0.06	Cum Volume (1000 m3)	2.61	13.43	15.12
C & E Loss (m)	0.00	Cum SA (1000 m2)	13.49	14.68	79.88

Plan: ronco ronco ronco RS: 33 Profile: PF 2

E.G. Elev (m)	262.99	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.88	Reach Len. (m)	70.00	70.00	70.00
Crit W.S. (m)	262.50	Flow Area (m2)	2.46	4.81	0.04
E.G. Slope (m/m)	0.001233	Area (m2)	2.46	4.81	0.04
Q Total (m3/s)	8.10	Flow (m3/s)	0.59	7.51	0.00
Top Width (m)	24.10	Top Width (m)	18.71	4.71	0.67
Vel Total (m/s)	1.11	Avg. Vel. (m/s)	0.24	1.56	0.13
Max Chl Dpth (m)	1.70	Hydr. Depth (m)	0.13	1.02	0.05
Conv. Total (m3/s)	230.7	Conv. (m3/s)	16.8	213.8	0.1
Length Wtd. (m)	70.00	Wetted Per. (m)	18.72	5.75	0.68
Min Ch El (m)	261.18	Shear (N/m2)	1.59	10.12	0.64
Alpha	1.84	Stream Power (N/m s)	0.38	15.79	0.08
Frctn Loss (m)	0.09	Cum Volume (1000 m3)	2.75	13.51	17.02
C & E Loss (m)	0.00	Cum SA (1000 m2)	13.77	14.68	81.55

Plan: ronco ronco ronco RS: 33 Profile: PF 3

E.G. Elev (m)	263.07	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.95	Reach Len. (m)	70.00	70.00	70.00
Crit W.S. (m)	262.63	Flow Area (m2)	3.88	5.14	0.10
E.G. Slope (m/m)	0.001312	Area (m2)	3.88	5.14	0.10
Q Total (m3/s)	9.80	Flow (m3/s)	1.15	8.63	0.02
Top Width (m)	28.15	Top Width (m)	22.34	4.71	1.10
Vel Total (m/s)	1.08	Avg. Vel. (m/s)	0.30	1.68	0.19
Max Chl Dpth (m)	1.77	Hydr. Depth (m)	0.17	1.09	0.09
Conv. Total (m3/s)	270.5	Conv. (m3/s)	31.7	238.3	0.5
Length Wtd. (m)	70.00	Wetted Per. (m)	22.35	5.75	1.11
Min Ch El (m)	261.18	Shear (N/m2)	2.23	11.50	1.12
Alpha	2.16	Stream Power (N/m s)	0.66	19.33	0.21
Frctn Loss (m)	0.12	Cum Volume (1000 m3)	2.76	13.51	17.02
C & E Loss (m)	0.01	Cum SA (1000 m2)	13.65	14.68	81.55

Plan: ronco ronco ronco RS: 32 Profile: PF 1

E.G. Elev (m)	262.82	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.75	Reach Len. (m)	58.09	56.57	51.84
Crit W.S. (m)	262.22	Flow Area (m2)	1.69	4.59	0.01
E.G. Slope (m/m)	0.000749	Area (m2)	1.69	4.59	0.01
Q Total (m3/s)	5.70	Flow (m3/s)	0.29	5.41	0.00

Plan: ronco ronco ronco RS: 32 Profile: PF 1 (Continued)

Top Width (m)	19.59	Top Width (m)	14.50	4.71	0.38
Vel Total (m/s)	0.91	Avg. Vel. (m/s)	0.17	1.18	0.07
Max Chl Dpth (m)	1.65	Hydr. Depth (m)	0.12	0.97	0.03
Conv. Total (m3/s)	208.3	Conv. (m3/s)	10.6	197.7	0.0
Length Wtd. (m)	56.63	Wetted Per. (m)	14.50	5.75	0.39
Min Ch El (m)	261.10	Shear (N/m2)	0.85	5.87	0.22
Alpha	1.61	Stream Power (N/m s)	0.15	6.91	0.01
Frctn Loss (m)	0.04	Cum Volume (1000 m3)	2.50	13.11	15.12
C & E Loss (m)	0.00	Cum SA (1000 m2)	12.57	14.35	79.86

Plan: ronco ronco ronco RS: 32 Profile: PF 2

E.G. Elev (m)	262.90	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.78	Reach Len. (m)	58.09	56.57	51.84
Crit W.S. (m)	262.42	Flow Area (m2)	2.10	4.72	0.02
E.G. Slope (m/m)	0.001347	Area (m2)	2.10	4.72	0.02
Q Total (m3/s)	8.10	Flow (m3/s)	0.51	7.59	0.00
Top Width (m)	22.14	Top Width (m)	16.88	4.71	0.55
Vel Total (m/s)	1.18	Avg. Vel. (m/s)	0.24	1.61	0.12
Max Chl Dpth (m)	1.68	Hydr. Depth (m)	0.12	1.00	0.04
Conv. Total (m3/s)	220.7	Conv. (m3/s)	13.8	206.8	0.1
Length Wtd. (m)	56.63	Wetted Per. (m)	16.89	5.75	0.55
Min Ch El (m)	261.10	Shear (N/m2)	1.65	10.84	0.57
Alpha	1.74	Stream Power (N/m s)	0.40	17.45	0.07
Frctn Loss (m)	0.08	Cum Volume (1000 m3)	2.59	13.18	17.01
C & E Loss (m)	0.00	Cum SA (1000 m2)	12.53	14.35	81.51

Plan: ronco ronco ronco RS: 32 Profile: PF 3

E.G. Elev (m)	262.94	Element	Left OB	Channel	Right OB
Vel Head (m)	0.21	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.73	Reach Len. (m)	58.09	56.57	51.84
Crit W.S. (m)	262.56	Flow Area (m2)	1.44	4.51	0.01
E.G. Slope (m/m)	0.002386	Area (m2)	1.44	4.51	0.01
Q Total (m3/s)	9.80	Flow (m3/s)	0.43	9.37	0.00
Top Width (m)	17.90	Top Width (m)	12.91	4.71	0.27
Vel Total (m/s)	1.64	Avg. Vel. (m/s)	0.30	2.08	0.09
Max Chl Dpth (m)	1.63	Hydr. Depth (m)	0.11	0.96	0.02
Conv. Total (m3/s)	200.6	Conv. (m3/s)	8.8	191.8	0.0
Length Wtd. (m)	56.62	Wetted Per. (m)	12.92	5.75	0.28
Min Ch El (m)	261.10	Shear (N/m2)	2.62	18.36	0.47
Alpha	1.53	Stream Power (N/m s)	0.78	38.14	0.04
Frctn Loss (m)	0.11	Cum Volume (1000 m3)	2.57	13.17	17.01
C & E Loss (m)	0.02	Cum SA (1000 m2)	12.41	14.35	81.50

Plan: ronco ronco ronco RS: 31.4 Profile: PF 1

E.G. Elev (m)	262.78	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.71	Reach Len. (m)	10.27	10.00	9.16
Crit W.S. (m)	262.12	Flow Area (m2)	1.45	4.71	0.13
E.G. Slope (m/m)	0.000683	Area (m2)	1.45	4.71	0.13
Q Total (m3/s)	5.70	Flow (m3/s)	0.20	5.48	0.01
Top Width (m)	22.62	Top Width (m)	16.00	4.62	2.00
Vel Total (m/s)	0.91	Avg. Vel. (m/s)	0.14	1.16	0.11
Max Chl Dpth (m)	1.65	Hydr. Depth (m)	0.09	1.02	0.06
Conv. Total (m3/s)	218.0	Conv. (m3/s)	7.7	209.8	0.5
Length Wtd. (m)	9.68	Wetted Per. (m)	16.03	5.61	2.01
Min Ch El (m)	261.07	Shear (N/m2)	0.61	5.63	0.42

Plan: ronco ronco ronco RS: 31.4 Profile: PF 1 (Continued)

Alpha	1.59	Stream Power (N/m s)	0.08	6.55	0.05
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	2.41	12.85	15.12
C & E Loss (m)	0.02	Cum SA (1000 m2)	11.68	14.09	79.79

Plan: ronco ronco ronco RS: 31.4 Profile: PF 2

E.G. Elev (m)	262.81	Element	Left OB	Channel	Right OB
Vel Head (m)	0.15	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.66	Reach Len. (m)	10.27	10.00	9.16
Crit W.S. (m)	262.30	Flow Area (m2)	0.75	4.47	0.04
E.G. Slope (m/m)	0.001675	Area (m2)	0.75	4.47	0.04
Q Total (m3/s)	8.00	Flow (m3/s)	0.13	7.86	0.00
Top Width (m)	16.76	Top Width (m)	10.94	4.62	1.20
Vel Total (m/s)	1.52	Avg. Vel. (m/s)	0.18	1.76	0.12
Max Chl Dpth (m)	1.59	Hydr. Depth (m)	0.07	0.97	0.04
Conv. Total (m3/s)	195.5	Conv. (m3/s)	3.3	192.1	0.1
Length Wtd. (m)	9.68	Wetted Per. (m)	10.98	5.61	1.20
Min Ch El (m)	261.07	Shear (N/m2)	1.12	13.09	0.58
Alpha	1.31	Stream Power (N/m s)	0.20	23.01	0.07
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	2.51	12.92	17.01
C & E Loss (m)	0.04	Cum SA (1000 m2)	11.72	14.09	81.47

Plan: ronco ronco ronco RS: 31.4 Profile: PF 3

E.G. Elev (m)	262.81	Element	Left OB	Channel	Right OB
Vel Head (m)	0.15	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.66	Reach Len. (m)	10.27	10.00	9.16
Crit W.S. (m)	262.30	Flow Area (m2)	0.75	4.47	0.04
E.G. Slope (m/m)	0.001675	Area (m2)	0.75	4.47	0.04
Q Total (m3/s)	8.00	Flow (m3/s)	0.13	7.86	0.00
Top Width (m)	16.76	Top Width (m)	10.94	4.62	1.20
Vel Total (m/s)	1.52	Avg. Vel. (m/s)	0.18	1.76	0.12
Max Chl Dpth (m)	1.59	Hydr. Depth (m)	0.07	0.97	0.04
Conv. Total (m3/s)	195.5	Conv. (m3/s)	3.3	192.1	0.1
Length Wtd. (m)	9.68	Wetted Per. (m)	10.98	5.61	1.20
Min Ch El (m)	261.07	Shear (N/m2)	1.12	13.09	0.58
Alpha	1.31	Stream Power (N/m s)	0.20	23.01	0.07
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	2.51	12.92	17.01
C & E Loss (m)	0.04	Cum SA (1000 m2)	11.72	14.09	81.47

Plan: ronco ronco ronco RS: 27.2 Profile: PF 1

E.G. Elev (m)	262.34	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.33	Reach Len. (m)	4.31	5.00	2.64
Crit W.S. (m)	262.33	Flow Area (m2)	1.44	2.73	21.58
E.G. Slope (m/m)	0.001541	Area (m2)	1.71	6.82	28.97
Q Total (m3/s)	7.70	Flow (m3/s)	0.33	2.33	5.04
Top Width (m)	223.24	Top Width (m)	13.80	8.34	201.10
Vel Total (m/s)	0.30	Avg. Vel. (m/s)	0.23	0.85	0.23
Max Chl Dpth (m)	1.73	Hydr. Depth (m)	0.10	0.33	0.11
Conv. Total (m3/s)	196.1	Conv. (m3/s)	8.4	59.4	128.3
Length Wtd. (m)	3.69	Wetted Per. (m)	13.80	9.52	201.13
Min Ch El (m)	260.60	Shear (N/m2)	1.58	4.34	1.62
Alpha	2.90	Stream Power (N/m s)	0.36	3.70	0.38
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	1.78	10.94	6.78
C & E Loss (m)	0.00	Cum SA (1000 m2)	6.12	11.99	28.81

Plan: ronco ronco ronco RS: 27.2 Profile: PF 2

E.G. Elev (m)	262.38	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.37	Reach Len. (m)	4.31	5.00	2.64
Crit W.S. (m)	262.33	Flow Area (m2)	2.23	7.13	36.51
E.G. Slope (m/m)	0.000265	Area (m2)	2.23	7.13	36.51
Q Total (m3/s)	10.00	Flow (m3/s)	0.28	4.79	4.94
Top Width (m)	235.07	Top Width (m)	14.32	8.34	212.41
Vel Total (m/s)	0.22	Avg. Vel. (m/s)	0.12	0.67	0.14
Max Chl Dpth (m)	1.77	Hydr. Depth (m)	0.16	0.85	0.17
Conv. Total (m3/s)	614.3	Conv. (m3/s)	16.9	294.0	303.4
Length Wtd. (m)	3.79	Wetted Per. (m)	14.33	9.52	212.44
Min Ch El (m)	260.60	Shear (N/m2)	0.40	1.95	0.45
Alpha	4.74	Stream Power (N/m s)	0.05	1.31	0.06
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	1.80	10.96	7.50
C & E Loss (m)	0.00	Cum SA (1000 m2)	6.10	11.99	28.72

Plan: ronco ronco ronco RS: 27.2 Profile: PF 3

E.G. Elev (m)	262.38	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.37	Reach Len. (m)	4.31	5.00	2.64
Crit W.S. (m)	262.33	Flow Area (m2)	2.23	7.13	36.51
E.G. Slope (m/m)	0.000265	Area (m2)	2.23	7.13	36.51
Q Total (m3/s)	10.00	Flow (m3/s)	0.28	4.79	4.94
Top Width (m)	235.07	Top Width (m)	14.32	8.34	212.41
Vel Total (m/s)	0.22	Avg. Vel. (m/s)	0.12	0.67	0.14
Max Chl Dpth (m)	1.77	Hydr. Depth (m)	0.16	0.85	0.17
Conv. Total (m3/s)	614.3	Conv. (m3/s)	16.9	294.0	303.4
Length Wtd. (m)	3.79	Wetted Per. (m)	14.33	9.52	212.44
Min Ch El (m)	260.60	Shear (N/m2)	0.40	1.95	0.45
Alpha	4.74	Stream Power (N/m s)	0.05	1.31	0.06
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	1.80	10.96	7.50
C & E Loss (m)	0.00	Cum SA (1000 m2)	6.10	11.99	28.72

Plan: ronco ronco ronco RS: 26 Profile: PF 1

E.G. Elev (m)	262.33	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.33	Reach Len. (m)	23.25	22.00	21.93
Crit W.S. (m)	261.51	Flow Area (m2)	9.13	6.87	115.93
E.G. Slope (m/m)	0.000016	Area (m2)	9.13	6.87	115.93
Q Total (m3/s)	7.70	Flow (m3/s)	0.50	1.49	5.72
Top Width (m)	387.25	Top Width (m)	24.32	4.97	357.95
Vel Total (m/s)	0.06	Avg. Vel. (m/s)	0.05	0.22	0.05
Max Chl Dpth (m)	1.87	Hydr. Depth (m)	0.38	1.38	0.32
Conv. Total (m3/s)	1937.7	Conv. (m3/s)	124.6	374.8	1438.3
Length Wtd. (m)	22.01	Wetted Per. (m)	24.42	6.04	358.12
Min Ch El (m)	260.46	Shear (N/m2)	0.06	0.18	0.05
Alpha	3.25	Stream Power (N/m s)	0.00	0.04	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	1.37	10.32	3.45
C & E Loss (m)	0.01	Cum SA (1000 m2)	4.65	11.39	15.91

Plan: ronco ronco ronco RS: 26 Profile: PF 2

E.G. Elev (m)	262.37	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.37	Reach Len. (m)	23.25	22.00	21.93
Crit W.S. (m)	261.66	Flow Area (m2)	10.22	7.09	131.77
E.G. Slope (m/m)	0.000019	Area (m2)	10.22	7.09	131.77
Q Total (m3/s)	10.00	Flow (m3/s)	0.64	1.70	7.66

Plan: ronco ronco ronco RS: 26 Profile: PF 2 (Continued)

Top Width (m)	387.95	Top Width (m)	24.89	4.97	358.08
Vel Total (m/s)	0.07	Avg. Vel. (m/s)	0.06	0.24	0.06
Max Chl Dpth (m)	1.91	Hydr. Depth (m)	0.41	1.43	0.37
Conv. Total (m3/s)	2323.3	Conv. (m3/s)	148.1	395.0	1780.2
Length Wtd. (m)	22.01	Wetted Per. (m)	24.99	6.04	358.26
Min Ch El (m)	260.46	Shear (N/m2)	0.07	0.21	0.07
Alpha	2.80	Stream Power (N/m s)	0.00	0.05	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	1.32	10.31	3.58
C & E Loss (m)	0.02	Cum SA (1000 m2)	4.59	11.39	15.48

Plan: ronco ronco ronco RS: 26 Profile: PF 3

E.G. Elev (m)	262.37	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	262.37	Reach Len. (m)	23.25	22.00	21.93
Crit W.S. (m)	261.66	Flow Area (m2)	10.22	7.09	131.77
E.G. Slope (m/m)	0.000019	Area (m2)	10.22	7.09	131.77
Q Total (m3/s)	10.00	Flow (m3/s)	0.64	1.70	7.66
Top Width (m)	387.95	Top Width (m)	24.89	4.97	358.08
Vel Total (m/s)	0.07	Avg. Vel. (m/s)	0.06	0.24	0.06
Max Chl Dpth (m)	1.91	Hydr. Depth (m)	0.41	1.43	0.37
Conv. Total (m3/s)	2323.3	Conv. (m3/s)	148.1	395.0	1780.2
Length Wtd. (m)	22.01	Wetted Per. (m)	24.99	6.04	358.26
Min Ch El (m)	260.46	Shear (N/m2)	0.07	0.21	0.07
Alpha	2.80	Stream Power (N/m s)	0.00	0.05	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	1.32	10.31	3.58
C & E Loss (m)	0.02	Cum SA (1000 m2)	4.59	11.39	15.48

Plan: ronco ronco ronco RS: 25.3 Profile: PF 1

E.G. Elev (m)	262.31	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	262.20	Reach Len. (m)	25.08	23.62	27.60
Crit W.S. (m)	261.42	Flow Area (m2)		5.05	
E.G. Slope (m/m)	0.000584	Area (m2)	10.17	8.39	2.65
Q Total (m3/s)	7.70	Flow (m3/s)		7.70	
Top Width (m)	78.90	Top Width (m)	39.51	5.43	33.96
Vel Total (m/s)	1.52	Avg. Vel. (m/s)		1.52	
Max Chl Dpth (m)	1.77	Hydr. Depth (m)		1.63	
Conv. Total (m3/s)	318.6	Conv. (m3/s)		318.6	
Length Wtd. (m)	23.62	Wetted Per. (m)		3.57	
Min Ch El (m)	260.43	Shear (N/m2)		8.11	
Alpha	1.00	Stream Power (N/m s)		12.35	
Frctn Loss (m)		Cum Volume (1000 m3)	1.14	10.15	2.15
C & E Loss (m)		Cum SA (1000 m2)	3.91	11.28	11.61

Plan: ronco ronco ronco RS: 25.3 Profile: PF 2

E.G. Elev (m)	262.35	Element	Left OB	Channel	Right OB
Vel Head (m)	0.22	Wt. n-Val.		0.020	
W.S. Elev (m)	262.13	Reach Len. (m)	25.08	23.62	27.60
Crit W.S. (m)	261.59	Flow Area (m2)		4.86	
E.G. Slope (m/m)	0.001125	Area (m2)	7.75	8.05	0.95
Q Total (m3/s)	10.00	Flow (m3/s)		10.00	
Top Width (m)	58.36	Top Width (m)	36.62	5.43	16.32
Vel Total (m/s)	2.06	Avg. Vel. (m/s)		2.06	
Max Chl Dpth (m)	1.70	Hydr. Depth (m)		1.56	
Conv. Total (m3/s)	298.2	Conv. (m3/s)		298.2	
Length Wtd. (m)	23.62	Wetted Per. (m)		3.57	
Min Ch El (m)	260.43	Shear (N/m2)		15.00	

Plan: ronco ronco ronco RS: 25.3 Profile: PF 2 (Continued)

Alpha	1.00	Stream Power (N/m s)		30.88	
Frctn Loss (m)		Cum Volume (1000 m3)	1.11	10.15	2.12
C & E Loss (m)		Cum SA (1000 m2)	3.87	11.28	11.37

Plan: ronco ronco ronco RS: 25.3 Profile: PF 3

E.G. Elev (m)	262.35	Element	Left OB	Channel	Right OB
Vel Head (m)	0.22	Wt. n-Val.		0.020	
W.S. Elev (m)	262.13	Reach Len. (m)	25.08	23.62	27.60
Crit W.S. (m)	261.59	Flow Area (m2)		4.86	
E.G. Slope (m/m)	0.001125	Area (m2)	7.75	8.05	0.95
Q Total (m3/s)	10.00	Flow (m3/s)		10.00	
Top Width (m)	58.36	Top Width (m)	36.62	5.43	16.32
Vel Total (m/s)	2.06	Avg. Vel. (m/s)		2.06	
Max Chl Dpth (m)	1.70	Hydr. Depth (m)		1.56	
Conv. Total (m3/s)	298.2	Conv. (m3/s)		298.2	
Length Wtd. (m)	23.62	Wetted Per. (m)		3.57	
Min Ch El (m)	260.43	Shear (N/m2)		15.00	
Alpha	1.00	Stream Power (N/m s)		30.88	
Frctn Loss (m)		Cum Volume (1000 m3)	1.11	10.15	2.12
C & E Loss (m)		Cum SA (1000 m2)	3.87	11.28	11.37

Plan: ronco ronco ronco RS: 24.2 Profile: PF 1

E.G. Elev (m)	261.84	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.		0.020	
W.S. Elev (m)	261.71	Reach Len. (m)	25.08	23.62	27.60
Crit W.S. (m)		Flow Area (m2)		3.69	
E.G. Slope (m/m)	0.001010	Area (m2)	2.17	6.01	0.07
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	
Top Width (m)	12.20	Top Width (m)	6.32	5.43	0.45
Vel Total (m/s)	1.62	Avg. Vel. (m/s)		1.62	
Max Chl Dpth (m)	1.33	Hydr. Depth (m)		1.19	
Conv. Total (m3/s)	188.8	Conv. (m3/s)		188.8	
Length Wtd. (m)	23.62	Wetted Per. (m)		3.57	
Min Ch El (m)	260.38	Shear (N/m2)		10.24	
Alpha	1.00	Stream Power (N/m s)		16.64	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.99	9.98	2.11
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.33	11.15	11.14

Plan: ronco ronco ronco RS: 24.2 Profile: PF 2

E.G. Elev (m)	261.84	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.		0.020	
W.S. Elev (m)	261.71	Reach Len. (m)	25.08	23.62	27.60
Crit W.S. (m)		Flow Area (m2)		3.69	
E.G. Slope (m/m)	0.001010	Area (m2)	2.17	6.01	0.07
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	
Top Width (m)	12.20	Top Width (m)	6.32	5.43	0.45
Vel Total (m/s)	1.62	Avg. Vel. (m/s)		1.62	
Max Chl Dpth (m)	1.33	Hydr. Depth (m)		1.19	
Conv. Total (m3/s)	188.8	Conv. (m3/s)		188.8	
Length Wtd. (m)	23.62	Wetted Per. (m)		3.57	
Min Ch El (m)	260.38	Shear (N/m2)		10.24	
Alpha	1.00	Stream Power (N/m s)		16.64	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.99	9.98	2.11
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.33	11.15	11.14

Plan: ronco ronco ronco RS: 24.2 Profile: PF 3

E.G. Elev (m)	261.84	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.		0.020	
W.S. Elev (m)	261.71	Reach Len. (m)	25.08	23.62	27.60
Crit W.S. (m)		Flow Area (m2)		3.69	
E.G. Slope (m/m)	0.001010	Area (m2)	2.17	6.01	0.07
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	
Top Width (m)	12.20	Top Width (m)	6.32	5.43	0.45
Vel Total (m/s)	1.62	Avg. Vel. (m/s)		1.62	
Max Chl Dpth (m)	1.33	Hydr. Depth (m)		1.19	
Conv. Total (m3/s)	188.8	Conv. (m3/s)		188.8	
Length Wtd. (m)	23.62	Wetted Per. (m)		3.57	
Min Ch El (m)	260.38	Shear (N/m2)		10.24	
Alpha	1.00	Stream Power (N/m s)		16.64	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.99	9.98	2.11
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.33	11.15	11.14

Plan: ronco ronco ronco RS: 24 Profile: PF 1

E.G. Elev (m)	261.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.09	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	261.72	Reach Len. (m)	214.10	220.08	207.34
Crit W.S. (m)	261.28	Flow Area (m2)	0.00	4.61	
E.G. Slope (m/m)	0.001041	Area (m2)	0.00	4.61	
Q Total (m3/s)	6.00	Flow (m3/s)	0.00	6.00	
Top Width (m)	5.53	Top Width (m)	0.04	5.49	
Vel Total (m/s)	1.30	Avg. Vel. (m/s)	0.03	1.30	
Max Chl Dpth (m)	1.38	Hydr. Depth (m)	0.01	0.84	
Conv. Total (m3/s)	186.0	Conv. (m3/s)	0.0	186.0	
Length Wtd. (m)	220.08	Wetted Per. (m)	0.04	6.37	
Min Ch El (m)	260.34	Shear (N/m2)	0.08	7.39	
Alpha	1.00	Stream Power (N/m s)	0.00	9.61	
Frctn Loss (m)	0.33	Cum Volume (1000 m3)	0.96	9.86	2.11
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	11.02	11.13

Plan: ronco ronco ronco RS: 24 Profile: PF 2

E.G. Elev (m)	261.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.09	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	261.72	Reach Len. (m)	214.10	220.08	207.34
Crit W.S. (m)	261.28	Flow Area (m2)	0.00	4.61	
E.G. Slope (m/m)	0.001041	Area (m2)	0.00	4.61	
Q Total (m3/s)	6.00	Flow (m3/s)	0.00	6.00	
Top Width (m)	5.53	Top Width (m)	0.04	5.49	
Vel Total (m/s)	1.30	Avg. Vel. (m/s)	0.03	1.30	
Max Chl Dpth (m)	1.38	Hydr. Depth (m)	0.01	0.84	
Conv. Total (m3/s)	186.0	Conv. (m3/s)	0.0	186.0	
Length Wtd. (m)	220.08	Wetted Per. (m)	0.04	6.37	
Min Ch El (m)	260.34	Shear (N/m2)	0.08	7.39	
Alpha	1.00	Stream Power (N/m s)	0.00	9.61	
Frctn Loss (m)	0.33	Cum Volume (1000 m3)	0.96	9.86	2.11
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	11.02	11.13

Plan: ronco ronco ronco RS: 24 Profile: PF 3

E.G. Elev (m)	261.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.09	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	261.72	Reach Len. (m)	214.10	220.08	207.34
Crit W.S. (m)	261.28	Flow Area (m2)	0.00	4.61	
E.G. Slope (m/m)	0.001041	Area (m2)	0.00	4.61	
Q Total (m3/s)	6.00	Flow (m3/s)	0.00	6.00	

Plan: ronco ronco ronco RS: 24 Profile: PF 3 (Continued)

Top Width (m)	5.53	Top Width (m)	0.04	5.49	
Vel Total (m/s)	1.30	Avg. Vel. (m/s)	0.03	1.30	
Max Chl Dpth (m)	1.38	Hydr. Depth (m)	0.01	0.84	
Conv. Total (m3/s)	186.0	Conv. (m3/s)	0.0	186.0	
Length Wtd. (m)	220.08	Wetted Per. (m)	0.04	6.37	
Min Ch El (m)	260.34	Shear (N/m2)	0.08	7.39	
Alpha	1.00	Stream Power (N/m s)	0.00	9.61	
Frctn Loss (m)	0.33	Cum Volume (1000 m3)	0.96	9.86	2.11
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	11.02	11.13

Plan: ronco ronco ronco RS: 23 Profile: PF 1

E.G. Elev (m)	261.46	Element	Left OB	Channel	Right OB
Vel Head (m)	0.16	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	261.30	Reach Len. (m)	70.93	69.69	69.33
Crit W.S. (m)	261.07	Flow Area (m2)		3.40	0.02
E.G. Slope (m/m)	0.002385	Area (m2)		3.40	0.02
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	0.00
Top Width (m)	5.70	Top Width (m)		4.61	1.09
Vel Total (m/s)	1.76	Avg. Vel. (m/s)		1.77	0.08
Max Chl Dpth (m)	1.18	Hydr. Depth (m)		0.74	0.02
Conv. Total (m3/s)	122.9	Conv. (m3/s)		122.8	0.0
Length Wtd. (m)	69.69	Wetted Per. (m)		5.53	1.09
Min Ch El (m)	260.12	Shear (N/m2)		14.38	0.39
Alpha	1.01	Stream Power (N/m s)		25.38	0.03
Frctn Loss (m)	0.24	Cum Volume (1000 m3)	0.96	8.97	2.11
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.25	9.91	11.02

Plan: ronco ronco ronco RS: 23 Profile: PF 2

E.G. Elev (m)	261.46	Element	Left OB	Channel	Right OB
Vel Head (m)	0.16	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	261.30	Reach Len. (m)	70.93	69.69	69.33
Crit W.S. (m)	261.07	Flow Area (m2)		3.40	0.02
E.G. Slope (m/m)	0.002385	Area (m2)		3.40	0.02
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	0.00
Top Width (m)	5.70	Top Width (m)		4.61	1.09
Vel Total (m/s)	1.76	Avg. Vel. (m/s)		1.77	0.08
Max Chl Dpth (m)	1.18	Hydr. Depth (m)		0.74	0.02
Conv. Total (m3/s)	122.9	Conv. (m3/s)		122.8	0.0
Length Wtd. (m)	69.69	Wetted Per. (m)		5.53	1.09
Min Ch El (m)	260.12	Shear (N/m2)		14.38	0.39
Alpha	1.01	Stream Power (N/m s)		25.38	0.03
Frctn Loss (m)	0.24	Cum Volume (1000 m3)	0.96	8.97	2.11
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.25	9.91	11.02

Plan: ronco ronco ronco RS: 23 Profile: PF 3

E.G. Elev (m)	261.46	Element	Left OB	Channel	Right OB
Vel Head (m)	0.16	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	261.30	Reach Len. (m)	70.93	69.69	69.33
Crit W.S. (m)	261.07	Flow Area (m2)		3.40	0.02
E.G. Slope (m/m)	0.002385	Area (m2)		3.40	0.02
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	0.00
Top Width (m)	5.70	Top Width (m)		4.61	1.09
Vel Total (m/s)	1.76	Avg. Vel. (m/s)		1.77	0.08
Max Chl Dpth (m)	1.18	Hydr. Depth (m)		0.74	0.02
Conv. Total (m3/s)	122.9	Conv. (m3/s)		122.8	0.0
Length Wtd. (m)	69.69	Wetted Per. (m)		5.53	1.09
Min Ch El (m)	260.12	Shear (N/m2)		14.38	0.39

Plan: ronco ronco ronco RS: 23 Profile: PF 3 (Continued)

Alpha	1.01	Stream Power (N/m s)		25.38	0.03
Frctn Loss (m)	0.24	Cum Volume (1000 m3)	0.96	8.97	2.11
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.25	9.91	11.02

Plan: ronco ronco ronco RS: 22.4 Profile: PF 1

E.G. Elev (m)	261.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	260.89	Reach Len. (m)	10.18	10.00	9.95
Crit W.S. (m)	260.88	Flow Area (m2)		2.42	
E.G. Slope (m/m)	0.005533	Area (m2)		2.42	
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	
Top Width (m)	3.69	Top Width (m)		3.69	
Vel Total (m/s)	2.48	Avg. Vel. (m/s)		2.48	
Max Chl Dpth (m)	0.94	Hydr. Depth (m)		0.66	
Conv. Total (m3/s)	80.7	Conv. (m3/s)		80.7	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.44	
Min Ch El (m)	259.95	Shear (N/m2)		29.56	
Alpha	1.00	Stream Power (N/m s)		73.35	
Frctn Loss (m)	0.05	Cum Volume (1000 m3)	0.96	8.77	2.10
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	9.62	10.98

Plan: ronco ronco ronco RS: 22.4 Profile: PF 2

E.G. Elev (m)	261.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	260.89	Reach Len. (m)	10.18	10.00	9.95
Crit W.S. (m)	260.88	Flow Area (m2)		2.42	
E.G. Slope (m/m)	0.005533	Area (m2)		2.42	
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	
Top Width (m)	3.69	Top Width (m)		3.69	
Vel Total (m/s)	2.48	Avg. Vel. (m/s)		2.48	
Max Chl Dpth (m)	0.94	Hydr. Depth (m)		0.66	
Conv. Total (m3/s)	80.7	Conv. (m3/s)		80.7	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.44	
Min Ch El (m)	259.95	Shear (N/m2)		29.56	
Alpha	1.00	Stream Power (N/m s)		73.35	
Frctn Loss (m)	0.05	Cum Volume (1000 m3)	0.96	8.77	2.10
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	9.62	10.98

Plan: ronco ronco ronco RS: 22.4 Profile: PF 3

E.G. Elev (m)	261.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	260.89	Reach Len. (m)	10.18	10.00	9.95
Crit W.S. (m)	260.88	Flow Area (m2)		2.42	
E.G. Slope (m/m)	0.005533	Area (m2)		2.42	
Q Total (m3/s)	6.00	Flow (m3/s)		6.00	
Top Width (m)	3.69	Top Width (m)		3.69	
Vel Total (m/s)	2.48	Avg. Vel. (m/s)		2.48	
Max Chl Dpth (m)	0.94	Hydr. Depth (m)		0.66	
Conv. Total (m3/s)	80.7	Conv. (m3/s)		80.7	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.44	
Min Ch El (m)	259.95	Shear (N/m2)		29.56	
Alpha	1.00	Stream Power (N/m s)		73.35	
Frctn Loss (m)	0.05	Cum Volume (1000 m3)	0.96	8.77	2.10
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	9.62	10.98

Plan: ronco ronco ronco RS: 21.25 BR U Profile: PF 1

E.G. Elev (m)	260.94	Element	Left OB	Channel	Right OB
Vel Head (m)	0.47	Wt. n-Val.		0.020	
W.S. Elev (m)	260.47	Reach Len. (m)	0.09	0.09	0.09
Crit W.S. (m)	260.56	Flow Area (m2)		1.29	
E.G. Slope (m/m)	0.014460	Area (m2)		1.29	
Q Total (m3/s)	3.90	Flow (m3/s)		3.90	
Top Width (m)	2.32	Top Width (m)		2.32	
Vel Total (m/s)	3.03	Avg. Vel. (m/s)		3.03	
Max Chl Dpth (m)	0.52	Hydr. Depth (m)		0.56	
Conv. Total (m3/s)	32.4	Conv. (m3/s)		32.4	
Length Wtd. (m)	0.09	Wetted Per. (m)		3.60	
Min Ch El (m)	259.95	Shear (N/m2)		50.69	
Alpha	1.00	Stream Power (N/m s)		153.50	
Frctn Loss (m)	0.28	Cum Volume (1000 m3)	0.96	8.75	2.10
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	9.58	10.98

Plan: ronco ronco ronco RS: 21.25 BR U Profile: PF 2

E.G. Elev (m)	260.94	Element	Left OB	Channel	Right OB
Vel Head (m)	0.47	Wt. n-Val.		0.020	
W.S. Elev (m)	260.47	Reach Len. (m)	0.09	0.09	0.09
Crit W.S. (m)	260.56	Flow Area (m2)		1.29	
E.G. Slope (m/m)	0.014460	Area (m2)		1.29	
Q Total (m3/s)	3.90	Flow (m3/s)		3.90	
Top Width (m)	2.32	Top Width (m)		2.32	
Vel Total (m/s)	3.03	Avg. Vel. (m/s)		3.03	
Max Chl Dpth (m)	0.52	Hydr. Depth (m)		0.56	
Conv. Total (m3/s)	32.4	Conv. (m3/s)		32.4	
Length Wtd. (m)	0.09	Wetted Per. (m)		3.60	
Min Ch El (m)	259.95	Shear (N/m2)		50.69	
Alpha	1.00	Stream Power (N/m s)		153.50	
Frctn Loss (m)	0.28	Cum Volume (1000 m3)	0.96	8.75	2.10
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	9.58	10.98

Plan: ronco ronco ronco RS: 21.25 BR U Profile: PF 3

E.G. Elev (m)	260.94	Element	Left OB	Channel	Right OB
Vel Head (m)	0.47	Wt. n-Val.		0.020	
W.S. Elev (m)	260.47	Reach Len. (m)	0.09	0.09	0.09
Crit W.S. (m)	260.56	Flow Area (m2)		1.29	
E.G. Slope (m/m)	0.014460	Area (m2)		1.29	
Q Total (m3/s)	3.90	Flow (m3/s)		3.90	
Top Width (m)	2.32	Top Width (m)		2.32	
Vel Total (m/s)	3.03	Avg. Vel. (m/s)		3.03	
Max Chl Dpth (m)	0.52	Hydr. Depth (m)		0.56	
Conv. Total (m3/s)	32.4	Conv. (m3/s)		32.4	
Length Wtd. (m)	0.09	Wetted Per. (m)		3.60	
Min Ch El (m)	259.95	Shear (N/m2)		50.69	
Alpha	1.00	Stream Power (N/m s)		153.50	
Frctn Loss (m)	0.28	Cum Volume (1000 m3)	0.96	8.75	2.10
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.25	9.58	10.98

Plan: ronco ronco ronco RS: 21.2 Profile: PF 1

E.G. Elev (m)	260.93	Element	Left OB	Channel	Right OB
Vel Head (m)	0.47	Wt. n-Val.		0.020	
W.S. Elev (m)	260.46	Reach Len. (m)	9.65	9.67	9.23
Crit W.S. (m)	260.58	Flow Area (m2)		1.28	
E.G. Slope (m/m)	0.009020	Area (m2)		1.78	
Q Total (m3/s)	3.90	Flow (m3/s)		3.90	

Plan: ronco ronco ronco RS: 21.2 Profile: PF 1 (Continued)

Top Width (m)	3.90	Top Width (m)		3.90	
Vel Total (m/s)	3.04	Avg. Vel. (m/s)		3.04	
Max Chl Dpth (m)	0.51	Hydr. Depth (m)		0.51	
Conv. Total (m3/s)	41.1	Conv. (m3/s)		41.1	
Length Wtd. (m)	9.49	Wetted Per. (m)		2.50	
Min Ch El (m)	259.95	Shear (N/m2)		45.36	
Alpha	1.00	Stream Power (N/m s)		137.99	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.96	8.75	2.10
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	9.58	10.98

Plan: ronco ronco ronco RS: 21.2 Profile: PF 2

E.G. Elev (m)	260.93	Element	Left OB	Channel	Right OB
Vel Head (m)	0.47	Wt. n-Val.		0.020	
W.S. Elev (m)	260.46	Reach Len. (m)	9.65	9.67	9.23
Crit W.S. (m)	260.58	Flow Area (m2)		1.28	
E.G. Slope (m/m)	0.009020	Area (m2)		1.78	
Q Total (m3/s)	3.90	Flow (m3/s)		3.90	
Top Width (m)	3.90	Top Width (m)		3.90	
Vel Total (m/s)	3.04	Avg. Vel. (m/s)		3.04	
Max Chl Dpth (m)	0.51	Hydr. Depth (m)		0.51	
Conv. Total (m3/s)	41.1	Conv. (m3/s)		41.1	
Length Wtd. (m)	9.49	Wetted Per. (m)		2.50	
Min Ch El (m)	259.95	Shear (N/m2)		45.36	
Alpha	1.00	Stream Power (N/m s)		137.99	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.96	8.75	2.10
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	9.58	10.98

Plan: ronco ronco ronco RS: 21.2 Profile: PF 3

E.G. Elev (m)	260.93	Element	Left OB	Channel	Right OB
Vel Head (m)	0.47	Wt. n-Val.		0.020	
W.S. Elev (m)	260.46	Reach Len. (m)	9.65	9.67	9.23
Crit W.S. (m)	260.58	Flow Area (m2)		1.28	
E.G. Slope (m/m)	0.009020	Area (m2)		1.78	
Q Total (m3/s)	3.90	Flow (m3/s)		3.90	
Top Width (m)	3.90	Top Width (m)		3.90	
Vel Total (m/s)	3.04	Avg. Vel. (m/s)		3.04	
Max Chl Dpth (m)	0.51	Hydr. Depth (m)		0.51	
Conv. Total (m3/s)	41.1	Conv. (m3/s)		41.1	
Length Wtd. (m)	9.49	Wetted Per. (m)		2.50	
Min Ch El (m)	259.95	Shear (N/m2)		45.36	
Alpha	1.00	Stream Power (N/m s)		137.99	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.96	8.75	2.10
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	9.58	10.98

Plan: ronco ronco ronco RS: 20 Profile: PF 1

E.G. Elev (m)	260.51	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	260.40	Reach Len. (m)	151.90	138.79	99.62
Crit W.S. (m)	260.19	Flow Area (m2)		2.47	
E.G. Slope (m/m)	0.001955	Area (m2)		2.47	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	4.03	Top Width (m)		4.03	
Vel Total (m/s)	1.46	Avg. Vel. (m/s)		1.46	
Max Chl Dpth (m)	0.78	Hydr. Depth (m)		0.61	
Conv. Total (m3/s)	81.4	Conv. (m3/s)		81.4	
Length Wtd. (m)	138.79	Wetted Per. (m)		4.62	
Min Ch El (m)	259.62	Shear (N/m2)		10.26	

Plan: ronco ronco ronco RS: 20 Profile: PF 1 (Continued)

Alpha	1.00	Stream Power (N/m s)		14.94	
Frctn Loss (m)	0.28	Cum Volume (1000 m3)	0.96	8.62	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	9.34	9.46

Plan: ronco ronco ronco RS: 20 Profile: PF 2

E.G. Elev (m)	260.51	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	260.40	Reach Len. (m)	151.90	138.79	99.62
Crit W.S. (m)	260.19	Flow Area (m2)		2.47	
E.G. Slope (m/m)	0.001955	Area (m2)		2.47	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	4.03	Top Width (m)		4.03	
Vel Total (m/s)	1.46	Avg. Vel. (m/s)		1.46	
Max Chl Dpth (m)	0.78	Hydr. Depth (m)		0.61	
Conv. Total (m3/s)	81.4	Conv. (m3/s)		81.4	
Length Wtd. (m)	138.79	Wetted Per. (m)		4.62	
Min Ch El (m)	259.62	Shear (N/m2)		10.26	
Alpha	1.00	Stream Power (N/m s)		14.94	
Frctn Loss (m)	0.28	Cum Volume (1000 m3)	0.96	8.62	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	9.34	9.46

Plan: ronco ronco ronco RS: 20 Profile: PF 3

E.G. Elev (m)	260.51	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	260.40	Reach Len. (m)	151.90	138.79	99.62
Crit W.S. (m)	260.19	Flow Area (m2)		2.47	
E.G. Slope (m/m)	0.001955	Area (m2)		2.47	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	4.03	Top Width (m)		4.03	
Vel Total (m/s)	1.46	Avg. Vel. (m/s)		1.46	
Max Chl Dpth (m)	0.78	Hydr. Depth (m)		0.61	
Conv. Total (m3/s)	81.4	Conv. (m3/s)		81.4	
Length Wtd. (m)	138.79	Wetted Per. (m)		4.62	
Min Ch El (m)	259.62	Shear (N/m2)		10.26	
Alpha	1.00	Stream Power (N/m s)		14.94	
Frctn Loss (m)	0.28	Cum Volume (1000 m3)	0.96	8.62	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	9.34	9.46

Plan: ronco ronco ronco RS: 19 Profile: PF 1

E.G. Elev (m)	260.22	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	260.10	Reach Len. (m)	20.82	22.23	25.51
Crit W.S. (m)	259.90	Flow Area (m2)		2.35	
E.G. Slope (m/m)	0.002147	Area (m2)		2.35	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.75	Top Width (m)		3.75	
Vel Total (m/s)	1.53	Avg. Vel. (m/s)		1.53	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	77.7	Conv. (m3/s)		77.7	
Length Wtd. (m)	22.23	Wetted Per. (m)		4.39	
Min Ch El (m)	259.26	Shear (N/m2)		11.29	
Alpha	1.00	Stream Power (N/m s)		17.26	
Frctn Loss (m)	0.04	Cum Volume (1000 m3)	0.96	8.29	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	8.80	9.46

Plan: ronco ronco ronco RS: 19 Profile: PF 2

E.G. Elev (m)	260.22	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	260.10	Reach Len. (m)	20.82	22.23	25.51
Crit W.S. (m)	259.90	Flow Area (m2)		2.35	
E.G. Slope (m/m)	0.002147	Area (m2)		2.35	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.75	Top Width (m)		3.75	
Vel Total (m/s)	1.53	Avg. Vel. (m/s)		1.53	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	77.7	Conv. (m3/s)		77.7	
Length Wtd. (m)	22.23	Wetted Per. (m)		4.39	
Min Ch El (m)	259.26	Shear (N/m2)		11.29	
Alpha	1.00	Stream Power (N/m s)		17.26	
Frctn Loss (m)	0.04	Cum Volume (1000 m3)	0.96	8.29	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	8.80	9.46

Plan: ronco ronco ronco RS: 19 Profile: PF 3

E.G. Elev (m)	260.22	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	260.10	Reach Len. (m)	20.82	22.23	25.51
Crit W.S. (m)	259.90	Flow Area (m2)		2.35	
E.G. Slope (m/m)	0.002147	Area (m2)		2.35	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.75	Top Width (m)		3.75	
Vel Total (m/s)	1.53	Avg. Vel. (m/s)		1.53	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	77.7	Conv. (m3/s)		77.7	
Length Wtd. (m)	22.23	Wetted Per. (m)		4.39	
Min Ch El (m)	259.26	Shear (N/m2)		11.29	
Alpha	1.00	Stream Power (N/m s)		17.26	
Frctn Loss (m)	0.04	Cum Volume (1000 m3)	0.96	8.29	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	8.80	9.46

Plan: ronco ronco ronco RS: 18.4 Profile: PF 1

E.G. Elev (m)	260.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.10	Wt. n-Val.		0.020	
W.S. Elev (m)	260.07	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.73	Flow Area (m2)		2.52	
E.G. Slope (m/m)	0.001647	Area (m2)		2.52	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.12	Top Width (m)		3.12	
Vel Total (m/s)	1.43	Avg. Vel. (m/s)		1.43	
Max Chl Dpth (m)	1.11	Hydr. Depth (m)		0.81	
Conv. Total (m3/s)	88.7	Conv. (m3/s)		88.7	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.27	
Min Ch El (m)	258.96	Shear (N/m2)		9.53	
Alpha	1.00	Stream Power (N/m s)		13.61	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.96	8.23	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.25	8.73	9.46

Plan: ronco ronco ronco RS: 18.4 Profile: PF 2

E.G. Elev (m)	260.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.10	Wt. n-Val.		0.020	
W.S. Elev (m)	260.07	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.73	Flow Area (m2)		2.52	
E.G. Slope (m/m)	0.001647	Area (m2)		2.52	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	

Plan: ronco ronco ronco RS: 18.4 Profile: PF 2 (Continued)

Top Width (m)	3.12	Top Width (m)		3.12	
Vel Total (m/s)	1.43	Avg. Vel. (m/s)		1.43	
Max Chl Dpth (m)	1.11	Hydr. Depth (m)		0.81	
Conv. Total (m3/s)	88.7	Conv. (m3/s)		88.7	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.27	
Min Ch El (m)	258.96	Shear (N/m2)		9.53	
Alpha	1.00	Stream Power (N/m s)		13.61	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.96	8.23	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.25	8.73	9.46

Plan: ronco ronco ronco RS: 18.4 Profile: PF 3

E.G. Elev (m)	260.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.10	Wt. n-Val.		0.020	
W.S. Elev (m)	260.07	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.73	Flow Area (m2)		2.52	
E.G. Slope (m/m)	0.001647	Area (m2)		2.52	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.12	Top Width (m)		3.12	
Vel Total (m/s)	1.43	Avg. Vel. (m/s)		1.43	
Max Chl Dpth (m)	1.11	Hydr. Depth (m)		0.81	
Conv. Total (m3/s)	88.7	Conv. (m3/s)		88.7	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.27	
Min Ch El (m)	258.96	Shear (N/m2)		9.53	
Alpha	1.00	Stream Power (N/m s)		13.61	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.96	8.23	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.25	8.73	9.46

Plan: ronco ronco ronco RS: 18.25 BR U Profile: PF 1

E.G. Elev (m)	260.12	Element	Left OB	Channel	Right OB
Vel Head (m)	0.33	Wt. n-Val.		0.020	
W.S. Elev (m)	259.79	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.74	Flow Area (m2)		1.41	
E.G. Slope (m/m)	0.003613	Area (m2)		1.41	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	1.80	Top Width (m)		1.80	
Vel Total (m/s)	2.55	Avg. Vel. (m/s)		2.55	
Max Chl Dpth (m)	0.88	Hydr. Depth (m)		0.78	
Conv. Total (m3/s)	59.9	Conv. (m3/s)		59.9	
Length Wtd. (m)	0.10	Wetted Per. (m)		1.81	
Min Ch El (m)	258.91	Shear (N/m2)		27.66	
Alpha	1.00	Stream Power (N/m s)		70.48	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.96	8.21	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	8.69	9.46

Plan: ronco ronco ronco RS: 18.25 BR U Profile: PF 2

E.G. Elev (m)	260.12	Element	Left OB	Channel	Right OB
Vel Head (m)	0.33	Wt. n-Val.		0.020	
W.S. Elev (m)	259.79	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.74	Flow Area (m2)		1.41	
E.G. Slope (m/m)	0.003613	Area (m2)		1.41	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	1.80	Top Width (m)		1.80	
Vel Total (m/s)	2.55	Avg. Vel. (m/s)		2.55	
Max Chl Dpth (m)	0.88	Hydr. Depth (m)		0.78	
Conv. Total (m3/s)	59.9	Conv. (m3/s)		59.9	
Length Wtd. (m)	0.10	Wetted Per. (m)		1.81	
Min Ch El (m)	258.91	Shear (N/m2)		27.66	

Plan: ronco ronco ronco RS: 18.25 BR U Profile: PF 2 (Continued)

Alpha	1.00	Stream Power (N/m s)		70.48	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.96	8.21	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	8.69	9.46

Plan: ronco ronco ronco RS: 18.25 BR U Profile: PF 3

E.G. Elev (m)	260.12	Element	Left OB	Channel	Right OB
Vel Head (m)	0.33	Wt. n-Val.		0.020	
W.S. Elev (m)	259.79	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.74	Flow Area (m2)		1.41	
E.G. Slope (m/m)	0.003613	Area (m2)		1.41	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	1.80	Top Width (m)		1.80	
Vel Total (m/s)	2.55	Avg. Vel. (m/s)		2.55	
Max Chl Dpth (m)	0.88	Hydr. Depth (m)		0.78	
Conv. Total (m3/s)	59.9	Conv. (m3/s)		59.9	
Length Wtd. (m)	0.10	Wetted Per. (m)		1.81	
Min Ch El (m)	258.91	Shear (N/m2)		27.66	
Alpha	1.00	Stream Power (N/m s)		70.48	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.96	8.21	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.25	8.69	9.46

Plan: ronco ronco ronco RS: 18.2 Profile: PF 1

E.G. Elev (m)	260.11	Element	Left OB	Channel	Right OB
Vel Head (m)	0.37	Wt. n-Val.		0.020	
W.S. Elev (m)	259.74	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.74	Flow Area (m2)		1.34	
E.G. Slope (m/m)	0.004360	Area (m2)		1.71	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.77	Top Width (m)		2.77	
Vel Total (m/s)	2.70	Avg. Vel. (m/s)		2.70	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.74	
Conv. Total (m3/s)	54.5	Conv. (m3/s)		54.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		1.81	
Min Ch El (m)	258.91	Shear (N/m2)		31.55	
Alpha	1.00	Stream Power (N/m s)		85.04	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.96	8.20	1.52
C & E Loss (m)	0.04	Cum SA (1000 m2)	3.25	8.69	9.46

Plan: ronco ronco ronco RS: 18.2 Profile: PF 2

E.G. Elev (m)	260.11	Element	Left OB	Channel	Right OB
Vel Head (m)	0.37	Wt. n-Val.		0.020	
W.S. Elev (m)	259.74	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.74	Flow Area (m2)		1.34	
E.G. Slope (m/m)	0.004360	Area (m2)		1.71	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.77	Top Width (m)		2.77	
Vel Total (m/s)	2.70	Avg. Vel. (m/s)		2.70	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.74	
Conv. Total (m3/s)	54.5	Conv. (m3/s)		54.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		1.81	
Min Ch El (m)	258.91	Shear (N/m2)		31.55	
Alpha	1.00	Stream Power (N/m s)		85.04	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.96	8.20	1.52
C & E Loss (m)	0.04	Cum SA (1000 m2)	3.25	8.69	9.46

Plan: ronco ronco ronco RS: 18.2 Profile: PF 3

E.G. Elev (m)	260.11	Element	Left OB	Channel	Right OB
Vel Head (m)	0.37	Wt. n-Val.		0.020	
W.S. Elev (m)	259.74	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.74	Flow Area (m2)		1.34	
E.G. Slope (m/m)	0.004360	Area (m2)		1.71	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.77	Top Width (m)		2.77	
Vel Total (m/s)	2.70	Avg. Vel. (m/s)		2.70	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.74	
Conv. Total (m3/s)	54.5	Conv. (m3/s)		54.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		1.81	
Min Ch El (m)	258.91	Shear (N/m2)		31.55	
Alpha	1.00	Stream Power (N/m s)		85.04	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.96	8.20	1.52
C & E Loss (m)	0.04	Cum SA (1000 m2)	3.25	8.69	9.46

Plan: ronco ronco ronco RS: 17.4 Profile: PF 1

E.G. Elev (m)	259.85	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.80	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.39	Flow Area (m2)	0.39	3.47	
E.G. Slope (m/m)	0.000655	Area (m2)	0.39	3.47	
Q Total (m3/s)	3.60	Flow (m3/s)	0.08	3.52	
Top Width (m)	6.76	Top Width (m)	2.28	4.48	
Vel Total (m/s)	0.93	Avg. Vel. (m/s)	0.20	1.01	
Max Chl Dpth (m)	1.04	Hydr. Depth (m)	0.17	0.78	
Conv. Total (m3/s)	140.7	Conv. (m3/s)	3.1	137.6	
Length Wtd. (m)	10.00	Wetted Per. (m)	2.35	4.93	
Min Ch El (m)	258.76	Shear (N/m2)	1.06	4.53	
Alpha	1.16	Stream Power (N/m s)	0.22	4.59	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.96	8.13	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.22	8.57	9.46

Plan: ronco ronco ronco RS: 17.4 Profile: PF 2

E.G. Elev (m)	259.85	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.80	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.39	Flow Area (m2)	0.39	3.47	
E.G. Slope (m/m)	0.000655	Area (m2)	0.39	3.47	
Q Total (m3/s)	3.60	Flow (m3/s)	0.08	3.52	
Top Width (m)	6.76	Top Width (m)	2.28	4.48	
Vel Total (m/s)	0.93	Avg. Vel. (m/s)	0.20	1.01	
Max Chl Dpth (m)	1.04	Hydr. Depth (m)	0.17	0.78	
Conv. Total (m3/s)	140.7	Conv. (m3/s)	3.1	137.6	
Length Wtd. (m)	10.00	Wetted Per. (m)	2.35	4.93	
Min Ch El (m)	258.76	Shear (N/m2)	1.06	4.53	
Alpha	1.16	Stream Power (N/m s)	0.22	4.59	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.96	8.13	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.22	8.57	9.46

Plan: ronco ronco ronco RS: 17.4 Profile: PF 3

E.G. Elev (m)	259.85	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.80	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.39	Flow Area (m2)	0.39	3.47	
E.G. Slope (m/m)	0.000655	Area (m2)	0.39	3.47	
Q Total (m3/s)	3.60	Flow (m3/s)	0.08	3.52	

Plan: ronco ronco ronco RS: 17.4 Profile: PF 3 (Continued)

Top Width (m)	6.76	Top Width (m)	2.28	4.48	
Vel Total (m/s)	0.93	Avg. Vel. (m/s)	0.20	1.01	
Max Chl Dpth (m)	1.04	Hydr. Depth (m)	0.17	0.78	
Conv. Total (m3/s)	140.7	Conv. (m3/s)	3.1	137.6	
Length Wtd. (m)	10.00	Wetted Per. (m)	2.35	4.93	
Min Ch El (m)	258.76	Shear (N/m2)	1.06	4.53	
Alpha	1.16	Stream Power (N/m s)	0.22	4.59	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.96	8.13	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.22	8.57	9.46

Plan: ronco ronco ronco RS: 17.25 BR U Profile: PF 1

E.G. Elev (m)	259.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.30	Wt. n-Val.		0.020	
W.S. Elev (m)	259.50	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.46	Flow Area (m2)		1.49	
E.G. Slope (m/m)	0.003849	Area (m2)		1.49	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.10	Top Width (m)		2.10	
Vel Total (m/s)	2.42	Avg. Vel. (m/s)		2.42	
Max Chl Dpth (m)	0.79	Hydr. Depth (m)		0.71	
Conv. Total (m3/s)	58.0	Conv. (m3/s)		58.0	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.16	
Min Ch El (m)	258.71	Shear (N/m2)		26.02	
Alpha	1.00	Stream Power (N/m s)		62.98	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.95	8.09	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.20	8.52	9.46

Plan: ronco ronco ronco RS: 17.25 BR U Profile: PF 2

E.G. Elev (m)	259.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.30	Wt. n-Val.		0.020	
W.S. Elev (m)	259.50	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.46	Flow Area (m2)		1.49	
E.G. Slope (m/m)	0.003849	Area (m2)		1.49	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.10	Top Width (m)		2.10	
Vel Total (m/s)	2.42	Avg. Vel. (m/s)		2.42	
Max Chl Dpth (m)	0.79	Hydr. Depth (m)		0.71	
Conv. Total (m3/s)	58.0	Conv. (m3/s)		58.0	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.16	
Min Ch El (m)	258.71	Shear (N/m2)		26.02	
Alpha	1.00	Stream Power (N/m s)		62.98	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.95	8.09	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.20	8.52	9.46

Plan: ronco ronco ronco RS: 17.25 BR U Profile: PF 3

E.G. Elev (m)	259.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.30	Wt. n-Val.		0.020	
W.S. Elev (m)	259.50	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.46	Flow Area (m2)		1.49	
E.G. Slope (m/m)	0.003849	Area (m2)		1.49	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.10	Top Width (m)		2.10	
Vel Total (m/s)	2.42	Avg. Vel. (m/s)		2.42	
Max Chl Dpth (m)	0.79	Hydr. Depth (m)		0.71	
Conv. Total (m3/s)	58.0	Conv. (m3/s)		58.0	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.16	
Min Ch El (m)	258.71	Shear (N/m2)		26.02	

Plan: ronco ronco ronco RS: 17.25 BR U Profile: PF 3 (Continued)

Alpha	1.00	Stream Power (N/m s)		62.98	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.95	8.09	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.20	8.52	9.46

Plan: ronco ronco ronco RS: 17.2 Profile: PF 1

E.G. Elev (m)	259.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.34	Wt. n-Val.		0.020	
W.S. Elev (m)	259.46	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.46	Flow Area (m2)		1.40	
E.G. Slope (m/m)	0.004703	Area (m2)	0.06	2.23	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	4.80	Top Width (m)	0.61	4.19	
Vel Total (m/s)	2.57	Avg. Vel. (m/s)		2.57	
Max Chl Dpth (m)	0.75	Hydr. Depth (m)		0.67	
Conv. Total (m3/s)	52.5	Conv. (m3/s)		52.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.16	
Min Ch El (m)	258.71	Shear (N/m2)		29.94	
Alpha	1.00	Stream Power (N/m s)		76.96	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	8.09	1.52
C & E Loss (m)	0.08	Cum SA (1000 m2)	3.20	8.52	9.46

Plan: ronco ronco ronco RS: 17.2 Profile: PF 2

E.G. Elev (m)	259.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.34	Wt. n-Val.		0.020	
W.S. Elev (m)	259.46	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.46	Flow Area (m2)		1.40	
E.G. Slope (m/m)	0.004703	Area (m2)	0.06	2.23	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	4.80	Top Width (m)	0.61	4.19	
Vel Total (m/s)	2.57	Avg. Vel. (m/s)		2.57	
Max Chl Dpth (m)	0.75	Hydr. Depth (m)		0.67	
Conv. Total (m3/s)	52.5	Conv. (m3/s)		52.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.16	
Min Ch El (m)	258.71	Shear (N/m2)		29.94	
Alpha	1.00	Stream Power (N/m s)		76.96	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	8.09	1.52
C & E Loss (m)	0.08	Cum SA (1000 m2)	3.20	8.52	9.46

Plan: ronco ronco ronco RS: 17.2 Profile: PF 3

E.G. Elev (m)	259.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.34	Wt. n-Val.		0.020	
W.S. Elev (m)	259.46	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.46	Flow Area (m2)		1.40	
E.G. Slope (m/m)	0.004703	Area (m2)	0.06	2.23	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	4.80	Top Width (m)	0.61	4.19	
Vel Total (m/s)	2.57	Avg. Vel. (m/s)		2.57	
Max Chl Dpth (m)	0.75	Hydr. Depth (m)		0.67	
Conv. Total (m3/s)	52.5	Conv. (m3/s)		52.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.16	
Min Ch El (m)	258.71	Shear (N/m2)		29.94	
Alpha	1.00	Stream Power (N/m s)		76.96	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	8.09	1.52
C & E Loss (m)	0.08	Cum SA (1000 m2)	3.20	8.52	9.46

Plan: ronco ronco ronco RS: 16 Profile: PF 1

E.G. Elev (m)	259.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	259.52	Reach Len. (m)	13.29	14.18	14.94
Crit W.S. (m)	259.26	Flow Area (m2)		2.48	
E.G. Slope (m/m)	0.001795	Area (m2)		2.48	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.55	Top Width (m)		3.55	
Vel Total (m/s)	1.45	Avg. Vel. (m/s)		1.45	
Max Chl Dpth (m)	1.00	Hydr. Depth (m)		0.70	
Conv. Total (m3/s)	85.0	Conv. (m3/s)		85.0	
Length Wtd. (m)	14.18	Wetted Per. (m)		4.36	
Min Ch El (m)	258.52	Shear (N/m2)		10.01	
Alpha	1.00	Stream Power (N/m s)		14.55	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.95	8.04	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.19	8.44	9.46

Plan: ronco ronco ronco RS: 16 Profile: PF 2

E.G. Elev (m)	259.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	259.52	Reach Len. (m)	13.29	14.18	14.94
Crit W.S. (m)	259.26	Flow Area (m2)		2.48	
E.G. Slope (m/m)	0.001795	Area (m2)		2.48	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.55	Top Width (m)		3.55	
Vel Total (m/s)	1.45	Avg. Vel. (m/s)		1.45	
Max Chl Dpth (m)	1.00	Hydr. Depth (m)		0.70	
Conv. Total (m3/s)	85.0	Conv. (m3/s)		85.0	
Length Wtd. (m)	14.18	Wetted Per. (m)		4.36	
Min Ch El (m)	258.52	Shear (N/m2)		10.01	
Alpha	1.00	Stream Power (N/m s)		14.55	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.95	8.04	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.19	8.44	9.46

Plan: ronco ronco ronco RS: 16 Profile: PF 3

E.G. Elev (m)	259.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	259.52	Reach Len. (m)	13.29	14.18	14.94
Crit W.S. (m)	259.26	Flow Area (m2)		2.48	
E.G. Slope (m/m)	0.001795	Area (m2)		2.48	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.55	Top Width (m)		3.55	
Vel Total (m/s)	1.45	Avg. Vel. (m/s)		1.45	
Max Chl Dpth (m)	1.00	Hydr. Depth (m)		0.70	
Conv. Total (m3/s)	85.0	Conv. (m3/s)		85.0	
Length Wtd. (m)	14.18	Wetted Per. (m)		4.36	
Min Ch El (m)	258.52	Shear (N/m2)		10.01	
Alpha	1.00	Stream Power (N/m s)		14.55	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.95	8.04	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.19	8.44	9.46

Plan: ronco ronco ronco RS: 15.4 Profile: PF 1

E.G. Elev (m)	259.59	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.54	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.15	Flow Area (m2)	0.15	3.32	
E.G. Slope (m/m)	0.000783	Area (m2)	0.15	3.32	
Q Total (m3/s)	3.60	Flow (m3/s)	0.03	3.57	

Plan: ronco ronco ronco RS: 15.4 Profile: PF 1 (Continued)

Top Width (m)	5.36	Top Width (m)	0.94	4.42	
Vel Total (m/s)	1.04	Avg. Vel. (m/s)	0.21	1.07	
Max Chl Dpth (m)	1.16	Hydr. Depth (m)	0.16	0.75	
Conv. Total (m3/s)	128.7	Conv. (m3/s)	1.2	127.5	
Length Wtd. (m)	10.00	Wetted Per. (m)	0.99	4.93	
Min Ch El (m)	258.37	Shear (N/m2)	1.20	5.16	
Alpha	1.07	Stream Power (N/m s)	0.25	5.55	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	8.00	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.18	8.38	9.46

Plan: ronco ronco ronco RS: 15.4 Profile: PF 2

E.G. Elev (m)	259.59	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.54	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.15	Flow Area (m2)	0.15	3.32	
E.G. Slope (m/m)	0.000783	Area (m2)	0.15	3.32	
Q Total (m3/s)	3.60	Flow (m3/s)	0.03	3.57	
Top Width (m)	5.36	Top Width (m)	0.94	4.42	
Vel Total (m/s)	1.04	Avg. Vel. (m/s)	0.21	1.07	
Max Chl Dpth (m)	1.16	Hydr. Depth (m)	0.16	0.75	
Conv. Total (m3/s)	128.7	Conv. (m3/s)	1.2	127.5	
Length Wtd. (m)	10.00	Wetted Per. (m)	0.99	4.93	
Min Ch El (m)	258.37	Shear (N/m2)	1.20	5.16	
Alpha	1.07	Stream Power (N/m s)	0.25	5.55	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	8.00	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.18	8.38	9.46

Plan: ronco ronco ronco RS: 15.4 Profile: PF 3

E.G. Elev (m)	259.59	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.54	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	259.15	Flow Area (m2)	0.15	3.32	
E.G. Slope (m/m)	0.000783	Area (m2)	0.15	3.32	
Q Total (m3/s)	3.60	Flow (m3/s)	0.03	3.57	
Top Width (m)	5.36	Top Width (m)	0.94	4.42	
Vel Total (m/s)	1.04	Avg. Vel. (m/s)	0.21	1.07	
Max Chl Dpth (m)	1.16	Hydr. Depth (m)	0.16	0.75	
Conv. Total (m3/s)	128.7	Conv. (m3/s)	1.2	127.5	
Length Wtd. (m)	10.00	Wetted Per. (m)	0.99	4.93	
Min Ch El (m)	258.37	Shear (N/m2)	1.20	5.16	
Alpha	1.07	Stream Power (N/m s)	0.25	5.55	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	8.00	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.18	8.38	9.46

Plan: ronco ronco ronco RS: 15.25 BR U Profile: PF 1

E.G. Elev (m)	259.56	Element	Left OB	Channel	Right OB
Vel Head (m)	0.17	Wt. n-Val.		0.020	
W.S. Elev (m)	259.39	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.15	Flow Area (m2)		1.97	
E.G. Slope (m/m)	0.001658	Area (m2)		1.97	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.20	Top Width (m)		2.20	
Vel Total (m/s)	1.82	Avg. Vel. (m/s)		1.82	
Max Chl Dpth (m)	1.08	Hydr. Depth (m)		0.90	
Conv. Total (m3/s)	88.4	Conv. (m3/s)		88.4	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.33	
Min Ch El (m)	258.32	Shear (N/m2)		13.79	

Plan: ronco ronco ronco RS: 15.25 BR U Profile: PF 1 (Continued)

Alpha	1.00	Stream Power (N/m s)		25.17	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.95	7.96	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.17	8.33	9.46

Plan: ronco ronco ronco RS: 15.25 BR U Profile: PF 2

E.G. Elev (m)	259.56	Element	Left OB	Channel	Right OB
Vel Head (m)	0.17	Wt. n-Val.		0.020	
W.S. Elev (m)	259.39	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.15	Flow Area (m2)		1.97	
E.G. Slope (m/m)	0.001658	Area (m2)		1.97	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.20	Top Width (m)		2.20	
Vel Total (m/s)	1.82	Avg. Vel. (m/s)		1.82	
Max Chl Dpth (m)	1.08	Hydr. Depth (m)		0.90	
Conv. Total (m3/s)	88.4	Conv. (m3/s)		88.4	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.33	
Min Ch El (m)	258.32	Shear (N/m2)		13.79	
Alpha	1.00	Stream Power (N/m s)		25.17	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.95	7.96	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.17	8.33	9.46

Plan: ronco ronco ronco RS: 15.25 BR U Profile: PF 3

E.G. Elev (m)	259.56	Element	Left OB	Channel	Right OB
Vel Head (m)	0.17	Wt. n-Val.		0.020	
W.S. Elev (m)	259.39	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	259.15	Flow Area (m2)		1.97	
E.G. Slope (m/m)	0.001658	Area (m2)		1.97	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.20	Top Width (m)		2.20	
Vel Total (m/s)	1.82	Avg. Vel. (m/s)		1.82	
Max Chl Dpth (m)	1.08	Hydr. Depth (m)		0.90	
Conv. Total (m3/s)	88.4	Conv. (m3/s)		88.4	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.33	
Min Ch El (m)	258.32	Shear (N/m2)		13.79	
Alpha	1.00	Stream Power (N/m s)		25.17	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.95	7.96	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.17	8.33	9.46

Plan: ronco ronco ronco RS: 15.2 Profile: PF 1

E.G. Elev (m)	259.56	Element	Left OB	Channel	Right OB
Vel Head (m)	0.17	Wt. n-Val.		0.020	
W.S. Elev (m)	259.39	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.14	Flow Area (m2)		1.97	
E.G. Slope (m/m)	0.001656	Area (m2)	0.08	2.93	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	5.02	Top Width (m)	0.69	4.32	
Vel Total (m/s)	1.82	Avg. Vel. (m/s)		1.82	
Max Chl Dpth (m)	1.08	Hydr. Depth (m)		0.90	
Conv. Total (m3/s)	88.5	Conv. (m3/s)		88.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.33	
Min Ch El (m)	258.32	Shear (N/m2)		13.78	
Alpha	1.00	Stream Power (N/m s)		25.12	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	7.96	1.52
C & E Loss (m)	0.03	Cum SA (1000 m2)	3.17	8.33	9.46

Plan: ronco ronco ronco RS: 15.2 Profile: PF 2

E.G. Elev (m)	259.56	Element	Left OB	Channel	Right OB
Vel Head (m)	0.17	Wt. n-Val.		0.020	
W.S. Elev (m)	259.39	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.14	Flow Area (m2)		1.97	
E.G. Slope (m/m)	0.001656	Area (m2)	0.08	2.93	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	5.02	Top Width (m)	0.69	4.32	
Vel Total (m/s)	1.82	Avg. Vel. (m/s)		1.82	
Max Chl Dpth (m)	1.08	Hydr. Depth (m)		0.90	
Conv. Total (m3/s)	88.5	Conv. (m3/s)		88.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.33	
Min Ch El (m)	258.32	Shear (N/m2)		13.78	
Alpha	1.00	Stream Power (N/m s)		25.12	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	7.96	1.52
C & E Loss (m)	0.03	Cum SA (1000 m2)	3.17	8.33	9.46

Plan: ronco ronco ronco RS: 15.2 Profile: PF 3

E.G. Elev (m)	259.56	Element	Left OB	Channel	Right OB
Vel Head (m)	0.17	Wt. n-Val.		0.020	
W.S. Elev (m)	259.39	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.14	Flow Area (m2)		1.97	
E.G. Slope (m/m)	0.001656	Area (m2)	0.08	2.93	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	5.02	Top Width (m)	0.69	4.32	
Vel Total (m/s)	1.82	Avg. Vel. (m/s)		1.82	
Max Chl Dpth (m)	1.08	Hydr. Depth (m)		0.90	
Conv. Total (m3/s)	88.5	Conv. (m3/s)		88.5	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.33	
Min Ch El (m)	258.32	Shear (N/m2)		13.78	
Alpha	1.00	Stream Power (N/m s)		25.12	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.95	7.96	1.52
C & E Loss (m)	0.03	Cum SA (1000 m2)	3.17	8.33	9.46

Plan: ronco ronco ronco RS: 14 Profile: PF 1

E.G. Elev (m)	259.42	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.31	Reach Len. (m)	57.22	56.55	53.95
Crit W.S. (m)	259.09	Flow Area (m2)	0.01	2.48	
E.G. Slope (m/m)	0.001873	Area (m2)	0.01	2.48	
Q Total (m3/s)	3.60	Flow (m3/s)	0.00	3.60	
Top Width (m)	4.21	Top Width (m)	0.18	4.04	
Vel Total (m/s)	1.44	Avg. Vel. (m/s)	0.16	1.45	
Max Chl Dpth (m)	1.03	Hydr. Depth (m)	0.06	0.62	
Conv. Total (m3/s)	83.2	Conv. (m3/s)	0.0	83.1	
Length Wtd. (m)	56.55	Wetted Per. (m)	0.22	4.53	
Min Ch El (m)	258.28	Shear (N/m2)	0.96	10.07	
Alpha	1.01	Stream Power (N/m s)	0.15	14.59	
Frctn Loss (m)	0.09	Cum Volume (1000 m3)	0.94	7.68	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.12	7.92	9.46

Plan: ronco ronco ronco RS: 14 Profile: PF 2

E.G. Elev (m)	259.42	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.31	Reach Len. (m)	57.22	56.55	53.95
Crit W.S. (m)	259.09	Flow Area (m2)	0.01	2.48	
E.G. Slope (m/m)	0.001873	Area (m2)	0.01	2.48	
Q Total (m3/s)	3.60	Flow (m3/s)	0.00	3.60	

Plan: ronco ronco ronco RS: 14 Profile: PF 2 (Continued)

Top Width (m)	4.21	Top Width (m)	0.18	4.04	
Vel Total (m/s)	1.44	Avg. Vel. (m/s)	0.16	1.45	
Max Chl Dpth (m)	1.03	Hydr. Depth (m)	0.06	0.62	
Conv. Total (m3/s)	83.2	Conv. (m3/s)	0.0	83.1	
Length Wtd. (m)	56.55	Wetted Per. (m)	0.22	4.53	
Min Ch El (m)	258.28	Shear (N/m2)	0.96	10.07	
Alpha	1.01	Stream Power (N/m s)	0.15	14.59	
Frctn Loss (m)	0.09	Cum Volume (1000 m3)	0.94	7.68	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.12	7.92	9.46

Plan: ronco ronco ronco RS: 14 Profile: PF 3

E.G. Elev (m)	259.42	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	259.31	Reach Len. (m)	57.22	56.55	53.95
Crit W.S. (m)	259.09	Flow Area (m2)	0.01	2.48	
E.G. Slope (m/m)	0.001873	Area (m2)	0.01	2.48	
Q Total (m3/s)	3.60	Flow (m3/s)	0.00	3.60	
Top Width (m)	4.21	Top Width (m)	0.18	4.04	
Vel Total (m/s)	1.44	Avg. Vel. (m/s)	0.16	1.45	
Max Chl Dpth (m)	1.03	Hydr. Depth (m)	0.06	0.62	
Conv. Total (m3/s)	83.2	Conv. (m3/s)	0.0	83.1	
Length Wtd. (m)	56.55	Wetted Per. (m)	0.22	4.53	
Min Ch El (m)	258.28	Shear (N/m2)	0.96	10.07	
Alpha	1.01	Stream Power (N/m s)	0.15	14.59	
Frctn Loss (m)	0.09	Cum Volume (1000 m3)	0.94	7.68	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.12	7.92	9.46

Plan: ronco ronco ronco RS: 13.4 Profile: PF 1

E.G. Elev (m)	259.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.08	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	259.24	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)	0.03	2.87	
E.G. Slope (m/m)	0.001244	Area (m2)	0.03	2.87	
Q Total (m3/s)	3.60	Flow (m3/s)	0.00	3.60	
Top Width (m)	4.66	Top Width (m)	0.37	4.29	
Vel Total (m/s)	1.24	Avg. Vel. (m/s)	0.14	1.25	
Max Chl Dpth (m)	0.98	Hydr. Depth (m)	0.08	0.67	
Conv. Total (m3/s)	102.1	Conv. (m3/s)	0.1	101.9	
Length Wtd. (m)	10.00	Wetted Per. (m)	0.41	4.80	
Min Ch El (m)	258.26	Shear (N/m2)	0.94	7.30	
Alpha	1.02	Stream Power (N/m s)	0.13	9.14	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.94	7.53	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.10	7.69	9.46

Plan: ronco ronco ronco RS: 13.4 Profile: PF 2

E.G. Elev (m)	259.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.08	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	259.24	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)	0.03	2.87	
E.G. Slope (m/m)	0.001244	Area (m2)	0.03	2.87	
Q Total (m3/s)	3.60	Flow (m3/s)	0.00	3.60	
Top Width (m)	4.66	Top Width (m)	0.37	4.29	
Vel Total (m/s)	1.24	Avg. Vel. (m/s)	0.14	1.25	
Max Chl Dpth (m)	0.98	Hydr. Depth (m)	0.08	0.67	
Conv. Total (m3/s)	102.1	Conv. (m3/s)	0.1	101.9	
Length Wtd. (m)	10.00	Wetted Per. (m)	0.41	4.80	
Min Ch El (m)	258.26	Shear (N/m2)	0.94	7.30	

Plan: ronco ronco ronco RS: 13.4 Profile: PF 2 (Continued)

Alpha	1.02	Stream Power (N/m s)	0.13	9.14	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.94	7.53	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.10	7.69	9.46

Plan: ronco ronco ronco RS: 13.4 Profile: PF 3

E.G. Elev (m)	259.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.08	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	259.24	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)	0.03	2.87	
E.G. Slope (m/m)	0.001244	Area (m2)	0.03	2.87	
Q Total (m3/s)	3.60	Flow (m3/s)	0.00	3.60	
Top Width (m)	4.66	Top Width (m)	0.37	4.29	
Vel Total (m/s)	1.24	Avg. Vel. (m/s)	0.14	1.25	
Max Chl Dpth (m)	0.98	Hydr. Depth (m)	0.08	0.67	
Conv. Total (m3/s)	102.1	Conv. (m3/s)	0.1	101.9	
Length Wtd. (m)	10.00	Wetted Per. (m)	0.41	4.80	
Min Ch El (m)	258.26	Shear (N/m2)	0.94	7.30	
Alpha	1.02	Stream Power (N/m s)	0.13	9.14	
Frctn Loss (m)	0.02	Cum Volume (1000 m3)	0.94	7.53	1.52
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.10	7.69	9.46

Plan: ronco ronco ronco RS: 13.25 BR U Profile: PF 1

E.G. Elev (m)	259.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.29	Wt. n-Val.		0.020	
W.S. Elev (m)	258.99	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	258.95	Flow Area (m2)		1.52	
E.G. Slope (m/m)	0.004145	Area (m2)		1.52	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.25	Top Width (m)		2.25	
Vel Total (m/s)	2.37	Avg. Vel. (m/s)		2.37	
Max Chl Dpth (m)	0.74	Hydr. Depth (m)		0.68	
Conv. Total (m3/s)	55.9	Conv. (m3/s)		55.9	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.41	
Min Ch El (m)	258.25	Shear (N/m2)		25.62	
Alpha	1.00	Stream Power (N/m s)		60.64	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.94	7.50	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.10	7.64	9.46

Plan: ronco ronco ronco RS: 13.25 BR U Profile: PF 2

E.G. Elev (m)	259.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.29	Wt. n-Val.		0.020	
W.S. Elev (m)	258.99	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	258.95	Flow Area (m2)		1.52	
E.G. Slope (m/m)	0.004145	Area (m2)		1.52	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.25	Top Width (m)		2.25	
Vel Total (m/s)	2.37	Avg. Vel. (m/s)		2.37	
Max Chl Dpth (m)	0.74	Hydr. Depth (m)		0.68	
Conv. Total (m3/s)	55.9	Conv. (m3/s)		55.9	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.41	
Min Ch El (m)	258.25	Shear (N/m2)		25.62	
Alpha	1.00	Stream Power (N/m s)		60.64	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.94	7.50	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.10	7.64	9.46

Plan: ronco ronco ronco RS: 13.25 BR U Profile: PF 3

E.G. Elev (m)	259.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.29	Wt. n-Val.		0.020	
W.S. Elev (m)	258.99	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	258.95	Flow Area (m2)		1.52	
E.G. Slope (m/m)	0.004145	Area (m2)		1.52	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.25	Top Width (m)		2.25	
Vel Total (m/s)	2.37	Avg. Vel. (m/s)		2.37	
Max Chl Dpth (m)	0.74	Hydr. Depth (m)		0.68	
Conv. Total (m3/s)	55.9	Conv. (m3/s)		55.9	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.41	
Min Ch El (m)	258.25	Shear (N/m2)		25.62	
Alpha	1.00	Stream Power (N/m s)		60.64	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.94	7.50	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.10	7.64	9.46

Plan: ronco ronco ronco RS: 13.2 Profile: PF 1

E.G. Elev (m)	259.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.32	Wt. n-Val.		0.020	
W.S. Elev (m)	258.95	Reach Len. (m)	3.00	3.00	3.00
Crit W.S. (m)	258.95	Flow Area (m2)		1.43	
E.G. Slope (m/m)	0.005073	Area (m2)		1.73	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.68	Top Width (m)		3.68	
Vel Total (m/s)	2.51	Avg. Vel. (m/s)		2.51	
Max Chl Dpth (m)	0.70	Hydr. Depth (m)		0.64	
Conv. Total (m3/s)	50.5	Conv. (m3/s)		50.5	
Length Wtd. (m)	3.00	Wetted Per. (m)		2.41	
Min Ch El (m)	258.25	Shear (N/m2)		29.51	
Alpha	1.00	Stream Power (N/m s)		74.18	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	7.50	1.52
C & E Loss (m)	0.05	Cum SA (1000 m2)	3.10	7.64	9.46

Plan: ronco ronco ronco RS: 13.2 Profile: PF 2

E.G. Elev (m)	259.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.32	Wt. n-Val.		0.020	
W.S. Elev (m)	258.95	Reach Len. (m)	3.00	3.00	3.00
Crit W.S. (m)	258.95	Flow Area (m2)		1.43	
E.G. Slope (m/m)	0.005073	Area (m2)		1.73	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.68	Top Width (m)		3.68	
Vel Total (m/s)	2.51	Avg. Vel. (m/s)		2.51	
Max Chl Dpth (m)	0.70	Hydr. Depth (m)		0.64	
Conv. Total (m3/s)	50.5	Conv. (m3/s)		50.5	
Length Wtd. (m)	3.00	Wetted Per. (m)		2.41	
Min Ch El (m)	258.25	Shear (N/m2)		29.51	
Alpha	1.00	Stream Power (N/m s)		74.18	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	7.50	1.52
C & E Loss (m)	0.05	Cum SA (1000 m2)	3.10	7.64	9.46

Plan: ronco ronco ronco RS: 13.2 Profile: PF 3

E.G. Elev (m)	259.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.32	Wt. n-Val.		0.020	
W.S. Elev (m)	258.95	Reach Len. (m)	3.00	3.00	3.00
Crit W.S. (m)	258.95	Flow Area (m2)		1.43	
E.G. Slope (m/m)	0.005073	Area (m2)		1.73	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	

Plan: ronco ronco ronco RS: 13.2 Profile: PF 3 (Continued)

Top Width (m)	3.68	Top Width (m)		3.68	
Vel Total (m/s)	2.51	Avg. Vel. (m/s)		2.51	
Max Chl Dpth (m)	0.70	Hydr. Depth (m)		0.64	
Conv. Total (m3/s)	50.5	Conv. (m3/s)		50.5	
Length Wtd. (m)	3.00	Wetted Per. (m)		2.41	
Min Ch El (m)	258.25	Shear (N/m2)		29.51	
Alpha	1.00	Stream Power (N/m s)		74.18	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	7.50	1.52
C & E Loss (m)	0.05	Cum SA (1000 m2)	3.10	7.64	9.46

Plan: ronco ronco ronco RS: 12.4 Profile: PF 1

E.G. Elev (m)	259.12	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.		0.020	
W.S. Elev (m)	258.99	Reach Len. (m)	3.00	3.00	3.00
Crit W.S. (m)	258.80	Flow Area (m2)		2.27	
E.G. Slope (m/m)	0.002346	Area (m2)		2.27	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.60	Top Width (m)		3.60	
Vel Total (m/s)	1.59	Avg. Vel. (m/s)		1.59	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	74.3	Conv. (m3/s)		74.3	
Length Wtd. (m)	3.00	Wetted Per. (m)		4.29	
Min Ch El (m)	258.15	Shear (N/m2)		12.19	
Alpha	1.00	Stream Power (N/m s)		19.33	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	7.46	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.10	7.55	9.46

Plan: ronco ronco ronco RS: 12.4 Profile: PF 2

E.G. Elev (m)	259.12	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.		0.020	
W.S. Elev (m)	258.99	Reach Len. (m)	3.00	3.00	3.00
Crit W.S. (m)	258.80	Flow Area (m2)		2.27	
E.G. Slope (m/m)	0.002346	Area (m2)		2.27	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.60	Top Width (m)		3.60	
Vel Total (m/s)	1.59	Avg. Vel. (m/s)		1.59	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	74.3	Conv. (m3/s)		74.3	
Length Wtd. (m)	3.00	Wetted Per. (m)		4.29	
Min Ch El (m)	258.15	Shear (N/m2)		12.19	
Alpha	1.00	Stream Power (N/m s)		19.33	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	7.46	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.10	7.55	9.46

Plan: ronco ronco ronco RS: 12.4 Profile: PF 3

E.G. Elev (m)	259.12	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.		0.020	
W.S. Elev (m)	258.99	Reach Len. (m)	3.00	3.00	3.00
Crit W.S. (m)	258.80	Flow Area (m2)		2.27	
E.G. Slope (m/m)	0.002346	Area (m2)		2.27	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	3.60	Top Width (m)		3.60	
Vel Total (m/s)	1.59	Avg. Vel. (m/s)		1.59	
Max Chl Dpth (m)	0.84	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	74.3	Conv. (m3/s)		74.3	
Length Wtd. (m)	3.00	Wetted Per. (m)		4.29	
Min Ch El (m)	258.15	Shear (N/m2)		12.19	

Plan: ronco ronco ronco RS: 12.4 Profile: PF 3 (Continued)

Alpha	1.00	Stream Power (N/m s)		19.33	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	7.46	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.10	7.55	9.46

Plan: ronco ronco ronco RS: 11.25 BR U Profile: PF 1

E.G. Elev (m)	257.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.19	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	0.56	0.56	0.56
Crit W.S. (m)	256.89	Flow Area (m2)		1.85	
E.G. Slope (m/m)	0.001670	Area (m2)		1.85	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.00	Top Width (m)		2.00	
Vel Total (m/s)	1.94	Avg. Vel. (m/s)		1.94	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.93	
Conv. Total (m3/s)	88.1	Conv. (m3/s)		88.1	
Length Wtd. (m)	0.56	Wetted Per. (m)		2.00	
Min Ch El (m)	256.20	Shear (N/m2)		15.18	
Alpha	1.00	Stream Power (N/m s)		29.48	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.94	6.25	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.10	5.97	9.46

Plan: ronco ronco ronco RS: 11.25 BR U Profile: PF 2

E.G. Elev (m)	257.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.19	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	0.56	0.56	0.56
Crit W.S. (m)	256.89	Flow Area (m2)		1.85	
E.G. Slope (m/m)	0.001670	Area (m2)		1.85	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.00	Top Width (m)		2.00	
Vel Total (m/s)	1.94	Avg. Vel. (m/s)		1.94	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.93	
Conv. Total (m3/s)	88.1	Conv. (m3/s)		88.1	
Length Wtd. (m)	0.56	Wetted Per. (m)		2.00	
Min Ch El (m)	256.20	Shear (N/m2)		15.18	
Alpha	1.00	Stream Power (N/m s)		29.48	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.94	6.25	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.10	5.97	9.46

Plan: ronco ronco ronco RS: 11.25 BR U Profile: PF 3

E.G. Elev (m)	257.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.19	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	0.56	0.56	0.56
Crit W.S. (m)	256.89	Flow Area (m2)		1.85	
E.G. Slope (m/m)	0.001670	Area (m2)		1.85	
Q Total (m3/s)	3.60	Flow (m3/s)		3.60	
Top Width (m)	2.00	Top Width (m)		2.00	
Vel Total (m/s)	1.94	Avg. Vel. (m/s)		1.94	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.93	
Conv. Total (m3/s)	88.1	Conv. (m3/s)		88.1	
Length Wtd. (m)	0.56	Wetted Per. (m)		2.00	
Min Ch El (m)	256.20	Shear (N/m2)		15.18	
Alpha	1.00	Stream Power (N/m s)		29.48	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.94	6.25	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.10	5.97	9.46

Plan: ronco ronco ronco RS: 11.2 Profile: PF 1

E.G. Elev (m)	257.40	Element	Left OB	Channel	Right OB
Vel Head (m)	0.27	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		1.85	
E.G. Slope (m/m)	0.002393	Area (m2)	4.50	3.51	
Q Total (m3/s)	4.30	Flow (m3/s)		4.30	
Top Width (m)	31.31	Top Width (m)	26.61	4.70	
Vel Total (m/s)	2.32	Avg. Vel. (m/s)		2.32	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.93	
Conv. Total (m3/s)	87.9	Conv. (m3/s)		87.9	
Length Wtd. (m)	10.00	Wetted Per. (m)		2.00	
Min Ch El (m)	256.20	Shear (N/m2)		21.72	
Alpha	1.00	Stream Power (N/m s)		50.45	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	6.25	1.52
C & E Loss (m)	0.07	Cum SA (1000 m2)	3.09	5.97	9.46

Plan: ronco ronco ronco RS: 11.2 Profile: PF 2

E.G. Elev (m)	257.40	Element	Left OB	Channel	Right OB
Vel Head (m)	0.27	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		1.85	
E.G. Slope (m/m)	0.002393	Area (m2)	4.50	3.51	
Q Total (m3/s)	4.30	Flow (m3/s)		4.30	
Top Width (m)	31.31	Top Width (m)	26.61	4.70	
Vel Total (m/s)	2.32	Avg. Vel. (m/s)		2.32	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.93	
Conv. Total (m3/s)	87.9	Conv. (m3/s)		87.9	
Length Wtd. (m)	10.00	Wetted Per. (m)		2.00	
Min Ch El (m)	256.20	Shear (N/m2)		21.72	
Alpha	1.00	Stream Power (N/m s)		50.45	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	6.25	1.52
C & E Loss (m)	0.07	Cum SA (1000 m2)	3.09	5.97	9.46

Plan: ronco ronco ronco RS: 11.2 Profile: PF 3

E.G. Elev (m)	257.40	Element	Left OB	Channel	Right OB
Vel Head (m)	0.27	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		1.85	
E.G. Slope (m/m)	0.002393	Area (m2)	4.50	3.51	
Q Total (m3/s)	4.30	Flow (m3/s)		4.30	
Top Width (m)	31.31	Top Width (m)	26.61	4.70	
Vel Total (m/s)	2.32	Avg. Vel. (m/s)		2.32	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.93	
Conv. Total (m3/s)	87.9	Conv. (m3/s)		87.9	
Length Wtd. (m)	10.00	Wetted Per. (m)		2.00	
Min Ch El (m)	256.20	Shear (N/m2)		21.72	
Alpha	1.00	Stream Power (N/m s)		50.45	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.94	6.25	1.52
C & E Loss (m)	0.07	Cum SA (1000 m2)	3.09	5.97	9.46

Plan: ronco ronco ronco RS: 10 Profile: PF 1

E.G. Elev (m)	257.30	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.26	Reach Len. (m)	54.02	55.55	56.89
Crit W.S. (m)		Flow Area (m2)	0.05	5.07	
E.G. Slope (m/m)	0.000353	Area (m2)	8.21	5.07	
Q Total (m3/s)	4.30	Flow (m3/s)	0.01	4.29	

Plan: ronco ronco ronco RS: 10 Profile: PF 1 (Continued)

Top Width (m)	31.42	Top Width (m)	26.72	4.70	
Vel Total (m/s)	0.84	Avg. Vel. (m/s)	0.17	0.85	
Max Chl Dpth (m)	1.34	Hydr. Depth (m)	0.26	1.08	
Conv. Total (m3/s)	228.9	Conv. (m3/s)	0.5	228.5	
Length Wtd. (m)	55.36	Wetted Per. (m)	0.20	5.93	
Min Ch El (m)	255.93	Shear (N/m2)	0.89	2.96	
Alpha	1.01	Stream Power (N/m s)	0.15	2.50	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.52	6.02	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	1.71	5.73	9.46

Plan: ronco ronco ronco RS: 10 Profile: PF 2

E.G. Elev (m)	257.30	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.26	Reach Len. (m)	54.02	55.55	56.89
Crit W.S. (m)		Flow Area (m2)	0.05	5.07	
E.G. Slope (m/m)	0.000353	Area (m2)	8.21	5.07	
Q Total (m3/s)	4.30	Flow (m3/s)	0.01	4.29	
Top Width (m)	31.42	Top Width (m)	26.72	4.70	
Vel Total (m/s)	0.84	Avg. Vel. (m/s)	0.17	0.85	
Max Chl Dpth (m)	1.34	Hydr. Depth (m)	0.26	1.08	
Conv. Total (m3/s)	228.9	Conv. (m3/s)	0.5	228.5	
Length Wtd. (m)	55.36	Wetted Per. (m)	0.20	5.93	
Min Ch El (m)	255.93	Shear (N/m2)	0.89	2.96	
Alpha	1.01	Stream Power (N/m s)	0.15	2.50	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.52	6.02	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	1.71	5.73	9.46

Plan: ronco ronco ronco RS: 10 Profile: PF 3

E.G. Elev (m)	257.30	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.26	Reach Len. (m)	54.02	55.55	56.89
Crit W.S. (m)		Flow Area (m2)	0.05	5.07	
E.G. Slope (m/m)	0.000353	Area (m2)	8.21	5.07	
Q Total (m3/s)	4.30	Flow (m3/s)	0.01	4.29	
Top Width (m)	31.42	Top Width (m)	26.72	4.70	
Vel Total (m/s)	0.84	Avg. Vel. (m/s)	0.17	0.85	
Max Chl Dpth (m)	1.34	Hydr. Depth (m)	0.26	1.08	
Conv. Total (m3/s)	228.9	Conv. (m3/s)	0.5	228.5	
Length Wtd. (m)	55.36	Wetted Per. (m)	0.20	5.93	
Min Ch El (m)	255.93	Shear (N/m2)	0.89	2.96	
Alpha	1.01	Stream Power (N/m s)	0.15	2.50	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.52	6.02	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	1.71	5.73	9.46

Plan: ronco ronco ronco RS: 9.5 Profile: PF 1

E.G. Elev (m)	257.28	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.27	Reach Len. (m)	18.20	18.20	18.20
Crit W.S. (m)		Flow Area (m2)	8.30	5.42	
E.G. Slope (m/m)	0.000163	Area (m2)	8.30	5.42	
Q Total (m3/s)	4.30	Flow (m3/s)	1.08	3.22	
Top Width (m)	31.42	Top Width (m)	26.72	4.70	
Vel Total (m/s)	0.31	Avg. Vel. (m/s)	0.13	0.59	
Max Chl Dpth (m)	1.44	Hydr. Depth (m)	0.31	1.15	
Conv. Total (m3/s)	336.5	Conv. (m3/s)	84.3	252.2	
Length Wtd. (m)	18.20	Wetted Per. (m)	26.83	6.04	
Min Ch El (m)	255.83	Shear (N/m2)	0.50	1.44	

Plan: ronco ronco ronco RS: 9.5 Profile: PF 1 (Continued)

Alpha	2.74	Stream Power (N/m s)	0.06	0.85	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.08	5.73	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.26	5.47	9.46

Plan: ronco ronco ronco RS: 9.5 Profile: PF 2

E.G. Elev (m)	257.28	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.27	Reach Len. (m)	18.20	18.20	18.20
Crit W.S. (m)		Flow Area (m2)	8.30	5.42	
E.G. Slope (m/m)	0.000163	Area (m2)	8.30	5.42	
Q Total (m3/s)	4.30	Flow (m3/s)	1.08	3.22	
Top Width (m)	31.42	Top Width (m)	26.72	4.70	
Vel Total (m/s)	0.31	Avg. Vel. (m/s)	0.13	0.59	
Max Chl Dpth (m)	1.44	Hydr. Depth (m)	0.31	1.15	
Conv. Total (m3/s)	336.5	Conv. (m3/s)	84.3	252.2	
Length Wtd. (m)	18.20	Wetted Per. (m)	26.83	6.04	
Min Ch El (m)	255.83	Shear (N/m2)	0.50	1.44	
Alpha	2.74	Stream Power (N/m s)	0.06	0.85	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.08	5.73	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.26	5.47	9.46

Plan: ronco ronco ronco RS: 9.5 Profile: PF 3

E.G. Elev (m)	257.28	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.27	Reach Len. (m)	18.20	18.20	18.20
Crit W.S. (m)		Flow Area (m2)	8.30	5.42	
E.G. Slope (m/m)	0.000163	Area (m2)	8.30	5.42	
Q Total (m3/s)	4.30	Flow (m3/s)	1.08	3.22	
Top Width (m)	31.42	Top Width (m)	26.72	4.70	
Vel Total (m/s)	0.31	Avg. Vel. (m/s)	0.13	0.59	
Max Chl Dpth (m)	1.44	Hydr. Depth (m)	0.31	1.15	
Conv. Total (m3/s)	336.5	Conv. (m3/s)	84.3	252.2	
Length Wtd. (m)	18.20	Wetted Per. (m)	26.83	6.04	
Min Ch El (m)	255.83	Shear (N/m2)	0.50	1.44	
Alpha	2.74	Stream Power (N/m s)	0.06	0.85	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.08	5.73	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.26	5.47	9.46

Plan: ronco ronco ronco RS: 9 Profile: PF 1

E.G. Elev (m)	257.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	0.045
W.S. Elev (m)	257.24	Reach Len. (m)	20.42	18.10	17.24
Crit W.S. (m)	256.48	Flow Area (m2)		4.79	0.20
E.G. Slope (m/m)	0.000398	Area (m2)		4.79	0.20
Q Total (m3/s)	4.20	Flow (m3/s)		4.18	0.02
Top Width (m)	5.90	Top Width (m)		4.48	1.42
Vel Total (m/s)	0.84	Avg. Vel. (m/s)		0.87	0.11
Max Chl Dpth (m)	1.44	Hydr. Depth (m)		1.07	0.14
Conv. Total (m3/s)	210.7	Conv. (m3/s)		209.5	1.1
Length Wtd. (m)	18.10	Wetted Per. (m)		5.85	1.56
Min Ch El (m)	255.80	Shear (N/m2)		3.19	0.50
Alpha	1.07	Stream Power (N/m s)		2.78	0.06
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.63	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	5.39	9.45

Plan: ronco ronco ronco RS: 9 Profile: PF 2

E.G. Elev (m)	257.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	0.045
W.S. Elev (m)	257.24	Reach Len. (m)	20.42	18.10	17.24
Crit W.S. (m)	256.48	Flow Area (m2)		4.79	0.20
E.G. Slope (m/m)	0.000398	Area (m2)		4.79	0.20
Q Total (m3/s)	4.20	Flow (m3/s)		4.18	0.02
Top Width (m)	5.90	Top Width (m)		4.48	1.42
Vel Total (m/s)	0.84	Avg. Vel. (m/s)		0.87	0.11
Max Chl Dpth (m)	1.44	Hydr. Depth (m)		1.07	0.14
Conv. Total (m3/s)	210.7	Conv. (m3/s)		209.5	1.1
Length Wtd. (m)	18.10	Wetted Per. (m)		5.85	1.56
Min Ch El (m)	255.80	Shear (N/m2)		3.19	0.50
Alpha	1.07	Stream Power (N/m s)		2.78	0.06
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.63	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	5.39	9.45

Plan: ronco ronco ronco RS: 9 Profile: PF 3

E.G. Elev (m)	257.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	0.045
W.S. Elev (m)	257.24	Reach Len. (m)	20.42	18.10	17.24
Crit W.S. (m)	256.48	Flow Area (m2)		4.79	0.20
E.G. Slope (m/m)	0.000398	Area (m2)		4.79	0.20
Q Total (m3/s)	4.20	Flow (m3/s)		4.18	0.02
Top Width (m)	5.90	Top Width (m)		4.48	1.42
Vel Total (m/s)	0.84	Avg. Vel. (m/s)		0.87	0.11
Max Chl Dpth (m)	1.44	Hydr. Depth (m)		1.07	0.14
Conv. Total (m3/s)	210.7	Conv. (m3/s)		209.5	1.1
Length Wtd. (m)	18.10	Wetted Per. (m)		5.85	1.56
Min Ch El (m)	255.80	Shear (N/m2)		3.19	0.50
Alpha	1.07	Stream Power (N/m s)		2.78	0.06
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.63	1.52
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	5.39	9.45

Plan: ronco ronco ronco RS: 8.4 Profile: PF 1

E.G. Elev (m)	257.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	
W.S. Elev (m)	257.24	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		6.41	
E.G. Slope (m/m)	0.000197	Area (m2)		6.41	
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)	6.00	Top Width (m)		6.00	
Vel Total (m/s)	0.65	Avg. Vel. (m/s)		0.65	
Max Chl Dpth (m)	1.51	Hydr. Depth (m)		1.07	
Conv. Total (m3/s)	299.1	Conv. (m3/s)		299.1	
Length Wtd. (m)	10.00	Wetted Per. (m)		7.12	
Min Ch El (m)	255.73	Shear (N/m2)		1.74	
Alpha	1.00	Stream Power (N/m s)		1.14	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.53	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	5.29	9.44

Plan: ronco ronco ronco RS: 8.4 Profile: PF 2

E.G. Elev (m)	257.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	
W.S. Elev (m)	257.24	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		6.41	
E.G. Slope (m/m)	0.000197	Area (m2)		6.41	
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	

Plan: ronco ronco ronco RS: 8.4 Profile: PF 2 (Continued)

Top Width (m)	6.00	Top Width (m)		6.00	
Vel Total (m/s)	0.65	Avg. Vel. (m/s)		0.65	
Max Chl Dpth (m)	1.51	Hydr. Depth (m)		1.07	
Conv. Total (m3/s)	299.1	Conv. (m3/s)		299.1	
Length Wtd. (m)	10.00	Wetted Per. (m)		7.12	
Min Ch El (m)	255.73	Shear (N/m2)		1.74	
Alpha	1.00	Stream Power (N/m s)		1.14	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.53	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	5.29	9.44

Plan: ronco ronco ronco RS: 8.4 Profile: PF 3

E.G. Elev (m)	257.27	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	
W.S. Elev (m)	257.24	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		6.41	
E.G. Slope (m/m)	0.000197	Area (m2)		6.41	
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)	6.00	Top Width (m)		6.00	
Vel Total (m/s)	0.65	Avg. Vel. (m/s)		0.65	
Max Chl Dpth (m)	1.51	Hydr. Depth (m)		1.07	
Conv. Total (m3/s)	299.1	Conv. (m3/s)		299.1	
Length Wtd. (m)	10.00	Wetted Per. (m)		7.12	
Min Ch El (m)	255.73	Shear (N/m2)		1.74	
Alpha	1.00	Stream Power (N/m s)		1.14	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.53	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	5.29	9.44

Plan: ronco ronco ronco RS: 8.25 BR U Profile: PF 1

E.G. Elev (m)	257.25	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	257.20	Reach Len. (m)	0.30	0.30	0.30
Crit W.S. (m)	256.32	Flow Area (m2)		3.92	
E.G. Slope (m/m)	0.001230	Area (m2)		3.92	
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)		Top Width (m)			
Vel Total (m/s)	1.07	Avg. Vel. (m/s)		1.07	
Max Chl Dpth (m)	1.50	Hydr. Depth (m)			
Conv. Total (m3/s)	119.8	Conv. (m3/s)		119.8	
Length Wtd. (m)	0.30	Wetted Per. (m)		8.21	
Min Ch El (m)	255.69	Shear (N/m2)		5.76	
Alpha	1.00	Stream Power (N/m s)		6.17	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.45	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	5.23	9.44

Plan: ronco ronco ronco RS: 8.25 BR U Profile: PF 2

E.G. Elev (m)	257.25	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	257.20	Reach Len. (m)	0.30	0.30	0.30
Crit W.S. (m)	256.32	Flow Area (m2)		3.92	
E.G. Slope (m/m)	0.001230	Area (m2)		3.92	
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)		Top Width (m)			
Vel Total (m/s)	1.07	Avg. Vel. (m/s)		1.07	
Max Chl Dpth (m)	1.50	Hydr. Depth (m)			
Conv. Total (m3/s)	119.8	Conv. (m3/s)		119.8	
Length Wtd. (m)	0.30	Wetted Per. (m)		8.21	
Min Ch El (m)	255.69	Shear (N/m2)		5.76	

Plan: ronco ronco ronco RS: 8.25 BR U Profile: PF 2 (Continued)

Alpha	1.00	Stream Power (N/m s)		6.17	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.45	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	5.23	9.44

Plan: ronco ronco ronco RS: 8.25 BR U Profile: PF 3

E.G. Elev (m)	257.25	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	257.20	Reach Len. (m)	0.30	0.30	0.30
Crit W.S. (m)	256.32	Flow Area (m2)		3.92	
E.G. Slope (m/m)	0.001230	Area (m2)		3.92	
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)		Top Width (m)			
Vel Total (m/s)	1.07	Avg. Vel. (m/s)		1.07	
Max Chl Dpth (m)	1.50	Hydr. Depth (m)			
Conv. Total (m3/s)	119.8	Conv. (m3/s)		119.8	
Length Wtd. (m)	0.30	Wetted Per. (m)		8.21	
Min Ch El (m)	255.69	Shear (N/m2)		5.76	
Alpha	1.00	Stream Power (N/m s)		6.17	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.45	1.52
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	5.23	9.44

Plan: ronco ronco ronco RS: 8.2 Profile: PF 1

E.G. Elev (m)	257.25	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.		0.020	
W.S. Elev (m)	257.20	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	256.33	Flow Area (m2)		4.05	
E.G. Slope (m/m)	0.000257	Area (m2)		6.66	11.25
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)	90.59	Top Width (m)		6.26	84.33
Vel Total (m/s)	1.04	Avg. Vel. (m/s)		1.04	
Max Chl Dpth (m)	1.51	Hydr. Depth (m)		1.50	
Conv. Total (m3/s)	262.0	Conv. (m3/s)		262.0	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.75	
Min Ch El (m)	255.69	Shear (N/m2)		3.71	
Alpha	1.00	Stream Power (N/m s)		3.85	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.45	1.51
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	5.23	9.42

Plan: ronco ronco ronco RS: 8.2 Profile: PF 2

E.G. Elev (m)	257.25	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.		0.020	
W.S. Elev (m)	257.20	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	256.33	Flow Area (m2)		4.05	
E.G. Slope (m/m)	0.000257	Area (m2)		6.66	11.25
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)	90.59	Top Width (m)		6.26	84.33
Vel Total (m/s)	1.04	Avg. Vel. (m/s)		1.04	
Max Chl Dpth (m)	1.51	Hydr. Depth (m)		1.50	
Conv. Total (m3/s)	262.0	Conv. (m3/s)		262.0	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.75	
Min Ch El (m)	255.69	Shear (N/m2)		3.71	
Alpha	1.00	Stream Power (N/m s)		3.85	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.45	1.51
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	5.23	9.42

Plan: ronco ronco ronco RS: 8.2 Profile: PF 3

E.G. Elev (m)	257.25	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.		0.020	
W.S. Elev (m)	257.20	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	256.33	Flow Area (m2)		4.05	
E.G. Slope (m/m)	0.000257	Area (m2)		6.66	11.25
Q Total (m3/s)	4.20	Flow (m3/s)		4.20	
Top Width (m)	90.59	Top Width (m)		6.26	84.33
Vel Total (m/s)	1.04	Avg. Vel. (m/s)		1.04	
Max Chl Dpth (m)	1.51	Hydr. Depth (m)		1.50	
Conv. Total (m3/s)	262.0	Conv. (m3/s)		262.0	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.75	
Min Ch El (m)	255.69	Shear (N/m2)		3.71	
Alpha	1.00	Stream Power (N/m s)		3.85	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	5.45	1.51
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	5.23	9.42

Plan: ronco ronco ronco RS: 7.4 Profile: PF 1

E.G. Elev (m)	257.21	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	257.20	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		7.00	0.00
E.G. Slope (m/m)	0.000144	Area (m2)		7.00	0.00
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	0.00
Top Width (m)	6.16	Top Width (m)		5.77	0.39
Vel Total (m/s)	0.57	Avg. Vel. (m/s)		0.57	0.01
Max Chl Dpth (m)	1.69	Hydr. Depth (m)		1.21	0.00
Conv. Total (m3/s)	332.8	Conv. (m3/s)		332.8	0.0
Length Wtd. (m)	10.00	Wetted Per. (m)		7.56	0.39
Min Ch El (m)	255.51	Shear (N/m2)		1.31	0.00
Alpha	1.00	Stream Power (N/m s)		0.75	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.96	0.00
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.94	0.15

Plan: ronco ronco ronco RS: 7.4 Profile: PF 2

E.G. Elev (m)	257.21	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	257.20	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		7.00	0.00
E.G. Slope (m/m)	0.000144	Area (m2)		7.00	0.00
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	0.00
Top Width (m)	6.16	Top Width (m)		5.77	0.39
Vel Total (m/s)	0.57	Avg. Vel. (m/s)		0.57	0.01
Max Chl Dpth (m)	1.69	Hydr. Depth (m)		1.21	0.00
Conv. Total (m3/s)	332.8	Conv. (m3/s)		332.8	0.0
Length Wtd. (m)	10.00	Wetted Per. (m)		7.56	0.39
Min Ch El (m)	255.51	Shear (N/m2)		1.31	0.00
Alpha	1.00	Stream Power (N/m s)		0.75	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.96	0.00
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.94	0.15

Plan: ronco ronco ronco RS: 7.4 Profile: PF 3

E.G. Elev (m)	257.21	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	257.20	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		7.00	0.00
E.G. Slope (m/m)	0.000144	Area (m2)		7.00	0.00
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	0.00

Plan: ronco ronco ronco RS: 7.4 Profile: PF 3 (Continued)

Top Width (m)	6.16	Top Width (m)		5.77	0.39
Vel Total (m/s)	0.57	Avg. Vel. (m/s)		0.57	0.01
Max Chl Dpth (m)	1.69	Hydr. Depth (m)		1.21	0.00
Conv. Total (m3/s)	332.8	Conv. (m3/s)		332.8	0.0
Length Wtd. (m)	10.00	Wetted Per. (m)		7.56	0.39
Min Ch El (m)	255.51	Shear (N/m2)		1.31	0.00
Alpha	1.00	Stream Power (N/m s)		0.75	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.96	0.00
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.94	0.15

Plan: ronco ronco ronco RS: 7.25 BR U Profile: PF 1

E.G. Elev (m)	257.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.16	Reach Len. (m)	0.20	0.20	0.20
Crit W.S. (m)	256.17	Flow Area (m2)		4.28	
E.G. Slope (m/m)	0.000597	Area (m2)		4.28	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	1.76	Top Width (m)		1.76	
Vel Total (m/s)	0.93	Avg. Vel. (m/s)		0.93	
Max Chl Dpth (m)	1.71	Hydr. Depth (m)		2.43	
Conv. Total (m3/s)	163.8	Conv. (m3/s)		163.8	
Length Wtd. (m)	0.20	Wetted Per. (m)		6.40	
Min Ch El (m)	255.45	Shear (N/m2)		3.91	
Alpha	1.00	Stream Power (N/m s)		3.66	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.86	0.00
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.87	0.14

Plan: ronco ronco ronco RS: 7.25 BR U Profile: PF 2

E.G. Elev (m)	257.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.16	Reach Len. (m)	0.20	0.20	0.20
Crit W.S. (m)	256.17	Flow Area (m2)		4.28	
E.G. Slope (m/m)	0.000597	Area (m2)		4.28	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	1.76	Top Width (m)		1.76	
Vel Total (m/s)	0.93	Avg. Vel. (m/s)		0.93	
Max Chl Dpth (m)	1.71	Hydr. Depth (m)		2.43	
Conv. Total (m3/s)	163.8	Conv. (m3/s)		163.8	
Length Wtd. (m)	0.20	Wetted Per. (m)		6.40	
Min Ch El (m)	255.45	Shear (N/m2)		3.91	
Alpha	1.00	Stream Power (N/m s)		3.66	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.86	0.00
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.87	0.14

Plan: ronco ronco ronco RS: 7.25 BR U Profile: PF 3

E.G. Elev (m)	257.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.16	Reach Len. (m)	0.20	0.20	0.20
Crit W.S. (m)	256.17	Flow Area (m2)		4.28	
E.G. Slope (m/m)	0.000597	Area (m2)		4.28	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	1.76	Top Width (m)		1.76	
Vel Total (m/s)	0.93	Avg. Vel. (m/s)		0.93	
Max Chl Dpth (m)	1.71	Hydr. Depth (m)		2.43	
Conv. Total (m3/s)	163.8	Conv. (m3/s)		163.8	
Length Wtd. (m)	0.20	Wetted Per. (m)		6.40	
Min Ch El (m)	255.45	Shear (N/m2)		3.91	

Plan: ronco ronco ronco RS: 7.25 BR U Profile: PF 3 (Continued)

Alpha	1.00	Stream Power (N/m s)		3.66	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.86	0.00
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.87	0.14

Plan: ronco ronco ronco RS: 7.2 Profile: PF 1

E.G. Elev (m)	257.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.17	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)		Flow Area (m2)		4.80	
E.G. Slope (m/m)	0.000161	Area (m2)		7.17	0.02
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	6.99	Top Width (m)		5.78	1.21
Vel Total (m/s)	0.83	Avg. Vel. (m/s)		0.83	
Max Chl Dpth (m)	1.72	Hydr. Depth (m)		1.55	
Conv. Total (m3/s)	315.1	Conv. (m3/s)		315.1	
Length Wtd. (m)	5.00	Wetted Per. (m)		3.19	
Min Ch El (m)	255.45	Shear (N/m2)		2.38	
Alpha	1.00	Stream Power (N/m s)		1.98	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.86	0.00
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	3.87	0.14

Plan: ronco ronco ronco RS: 7.2 Profile: PF 2

E.G. Elev (m)	257.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.17	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)		Flow Area (m2)		4.80	
E.G. Slope (m/m)	0.000161	Area (m2)		7.17	0.02
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	6.99	Top Width (m)		5.78	1.21
Vel Total (m/s)	0.83	Avg. Vel. (m/s)		0.83	
Max Chl Dpth (m)	1.72	Hydr. Depth (m)		1.55	
Conv. Total (m3/s)	315.1	Conv. (m3/s)		315.1	
Length Wtd. (m)	5.00	Wetted Per. (m)		3.19	
Min Ch El (m)	255.45	Shear (N/m2)		2.38	
Alpha	1.00	Stream Power (N/m s)		1.98	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.86	0.00
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	3.87	0.14

Plan: ronco ronco ronco RS: 7.2 Profile: PF 3

E.G. Elev (m)	257.20	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.17	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)		Flow Area (m2)		4.80	
E.G. Slope (m/m)	0.000161	Area (m2)		7.17	0.02
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	6.99	Top Width (m)		5.78	1.21
Vel Total (m/s)	0.83	Avg. Vel. (m/s)		0.83	
Max Chl Dpth (m)	1.72	Hydr. Depth (m)		1.55	
Conv. Total (m3/s)	315.1	Conv. (m3/s)		315.1	
Length Wtd. (m)	5.00	Wetted Per. (m)		3.19	
Min Ch El (m)	255.45	Shear (N/m2)		2.38	
Alpha	1.00	Stream Power (N/m s)		1.98	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.86	0.00
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	3.87	0.14

Plan: ronco ronco ronco RS: 6.4 Profile: PF 1

E.G. Elev (m)	257.19	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	
W.S. Elev (m)	257.17	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		6.62	
E.G. Slope (m/m)	0.000159	Area (m2)		6.62	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	5.58	Top Width (m)		5.58	
Vel Total (m/s)	0.60	Avg. Vel. (m/s)		0.60	
Max Chl Dpth (m)	1.84	Hydr. Depth (m)		1.19	
Conv. Total (m3/s)	317.4	Conv. (m3/s)		317.4	
Length Wtd. (m)	10.00	Wetted Per. (m)		7.04	
Min Ch El (m)	255.33	Shear (N/m2)		1.46	
Alpha	1.00	Stream Power (N/m s)		0.89	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.45	
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.54	

Plan: ronco ronco ronco RS: 6.4 Profile: PF 2

E.G. Elev (m)	257.19	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	
W.S. Elev (m)	257.17	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		6.62	
E.G. Slope (m/m)	0.000159	Area (m2)		6.62	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	5.58	Top Width (m)		5.58	
Vel Total (m/s)	0.60	Avg. Vel. (m/s)		0.60	
Max Chl Dpth (m)	1.84	Hydr. Depth (m)		1.19	
Conv. Total (m3/s)	317.4	Conv. (m3/s)		317.4	
Length Wtd. (m)	10.00	Wetted Per. (m)		7.04	
Min Ch El (m)	255.33	Shear (N/m2)		1.46	
Alpha	1.00	Stream Power (N/m s)		0.89	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.45	
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.54	

Plan: ronco ronco ronco RS: 6.4 Profile: PF 3

E.G. Elev (m)	257.19	Element	Left OB	Channel	Right OB
Vel Head (m)	0.02	Wt. n-Val.		0.020	
W.S. Elev (m)	257.17	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		6.62	
E.G. Slope (m/m)	0.000159	Area (m2)		6.62	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	5.58	Top Width (m)		5.58	
Vel Total (m/s)	0.60	Avg. Vel. (m/s)		0.60	
Max Chl Dpth (m)	1.84	Hydr. Depth (m)		1.19	
Conv. Total (m3/s)	317.4	Conv. (m3/s)		317.4	
Length Wtd. (m)	10.00	Wetted Per. (m)		7.04	
Min Ch El (m)	255.33	Shear (N/m2)		1.46	
Alpha	1.00	Stream Power (N/m s)		0.89	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.45	
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.54	

Plan: ronco ronco ronco RS: 6.25 BR U Profile: PF 1

E.G. Elev (m)	257.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	0.30	0.30	0.30
Crit W.S. (m)	256.10	Flow Area (m2)		4.23	
E.G. Slope (m/m)	0.000736	Area (m2)		4.23	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	

Plan: ronco ronco ronco RS: 6.25 BR U Profile: PF 1 (Continued)

Top Width (m)		Top Width (m)			
Vel Total (m/s)	0.95	Avg. Vel. (m/s)		0.95	
Max Chl Dpth (m)	1.86	Hydr. Depth (m)			
Conv. Total (m3/s)	147.5	Conv. (m3/s)		147.5	
Length Wtd. (m)	0.30	Wetted Per. (m)		7.28	
Min Ch El (m)	255.27	Shear (N/m2)		4.20	
Alpha	1.00	Stream Power (N/m s)		3.97	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.36	
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.48	

Plan: ronco ronco ronco RS: 6.25 BR U Profile: PF 2

E.G. Elev (m)	257.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	0.30	0.30	0.30
Crit W.S. (m)	256.10	Flow Area (m2)		4.23	
E.G. Slope (m/m)	0.000736	Area (m2)		4.23	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)		Top Width (m)			
Vel Total (m/s)	0.95	Avg. Vel. (m/s)		0.95	
Max Chl Dpth (m)	1.86	Hydr. Depth (m)			
Conv. Total (m3/s)	147.5	Conv. (m3/s)		147.5	
Length Wtd. (m)	0.30	Wetted Per. (m)		7.28	
Min Ch El (m)	255.27	Shear (N/m2)		4.20	
Alpha	1.00	Stream Power (N/m s)		3.97	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.36	
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.48	

Plan: ronco ronco ronco RS: 6.25 BR U Profile: PF 3

E.G. Elev (m)	257.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.		0.020	
W.S. Elev (m)	257.13	Reach Len. (m)	0.30	0.30	0.30
Crit W.S. (m)	256.10	Flow Area (m2)		4.23	
E.G. Slope (m/m)	0.000736	Area (m2)		4.23	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)		Top Width (m)			
Vel Total (m/s)	0.95	Avg. Vel. (m/s)		0.95	
Max Chl Dpth (m)	1.86	Hydr. Depth (m)			
Conv. Total (m3/s)	147.5	Conv. (m3/s)		147.5	
Length Wtd. (m)	0.30	Wetted Per. (m)		7.28	
Min Ch El (m)	255.27	Shear (N/m2)		4.20	
Alpha	1.00	Stream Power (N/m s)		3.97	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.36	
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.02	3.48	

Plan: ronco ronco ronco RS: 6.2 Profile: PF 1

E.G. Elev (m)	257.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.14	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)		Flow Area (m2)		4.57	
E.G. Slope (m/m)	0.000172	Area (m2)		6.78	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	5.64	Top Width (m)		5.64	
Vel Total (m/s)	0.88	Avg. Vel. (m/s)		0.88	
Max Chl Dpth (m)	1.87	Hydr. Depth (m)		1.63	
Conv. Total (m3/s)	304.9	Conv. (m3/s)		304.9	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.96	
Min Ch El (m)	255.27	Shear (N/m2)		2.61	

Plan: ronco ronco ronco RS: 6.2 Profile: PF 1 (Continued)

Alpha	1.00	Stream Power (N/m s)		2.28	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.36	
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	3.48	

Plan: ronco ronco ronco RS: 6.2 Profile: PF 2

E.G. Elev (m)	257.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.14	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)		Flow Area (m2)		4.57	
E.G. Slope (m/m)	0.000172	Area (m2)		6.78	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	5.64	Top Width (m)		5.64	
Vel Total (m/s)	0.88	Avg. Vel. (m/s)		0.88	
Max Chl Dpth (m)	1.87	Hydr. Depth (m)		1.63	
Conv. Total (m3/s)	304.9	Conv. (m3/s)		304.9	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.96	
Min Ch El (m)	255.27	Shear (N/m2)		2.61	
Alpha	1.00	Stream Power (N/m s)		2.28	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.36	
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	3.48	

Plan: ronco ronco ronco RS: 6.2 Profile: PF 3

E.G. Elev (m)	257.18	Element	Left OB	Channel	Right OB
Vel Head (m)	0.04	Wt. n-Val.		0.020	
W.S. Elev (m)	257.14	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)		Flow Area (m2)		4.57	
E.G. Slope (m/m)	0.000172	Area (m2)		6.78	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	5.64	Top Width (m)		5.64	
Vel Total (m/s)	0.88	Avg. Vel. (m/s)		0.88	
Max Chl Dpth (m)	1.87	Hydr. Depth (m)		1.63	
Conv. Total (m3/s)	304.9	Conv. (m3/s)		304.9	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.96	
Min Ch El (m)	255.27	Shear (N/m2)		2.61	
Alpha	1.00	Stream Power (N/m s)		2.28	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	3.36	
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.02	3.48	

Plan: ronco ronco ronco RS: 5 Profile: PF 1

E.G. Elev (m)	257.16	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.15	Reach Len. (m)	47.85	46.94	46.44
Crit W.S. (m)		Flow Area (m2)	0.04	7.94	
E.G. Slope (m/m)	0.000090	Area (m2)	0.04	7.94	
Q Total (m3/s)	4.00	Flow (m3/s)	0.00	4.00	
Top Width (m)	6.06	Top Width (m)	0.30	5.76	
Vel Total (m/s)	0.50	Avg. Vel. (m/s)	0.05	0.50	
Max Chl Dpth (m)	1.92	Hydr. Depth (m)	0.13	1.38	
Conv. Total (m3/s)	421.4	Conv. (m3/s)	0.2	421.2	
Length Wtd. (m)	46.94	Wetted Per. (m)	0.40	7.26	
Min Ch El (m)	255.23	Shear (N/m2)	0.09	0.97	
Alpha	1.01	Stream Power (N/m s)	0.00	0.49	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.00	2.64	
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.01	2.93	

Plan: ronco ronco ronco RS: 5 Profile: PF 2

E.G. Elev (m)	257.16	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.15	Reach Len. (m)	47.85	46.94	46.44
Crit W.S. (m)		Flow Area (m2)	0.04	7.94	
E.G. Slope (m/m)	0.000090	Area (m2)	0.04	7.94	
Q Total (m3/s)	4.00	Flow (m3/s)	0.00	4.00	
Top Width (m)	6.06	Top Width (m)	0.30	5.76	
Vel Total (m/s)	0.50	Avg. Vel. (m/s)	0.05	0.50	
Max Chl Dpth (m)	1.92	Hydr. Depth (m)	0.13	1.38	
Conv. Total (m3/s)	421.4	Conv. (m3/s)	0.2	421.2	
Length Wtd. (m)	46.94	Wetted Per. (m)	0.40	7.26	
Min Ch El (m)	255.23	Shear (N/m2)	0.09	0.97	
Alpha	1.01	Stream Power (N/m s)	0.00	0.49	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.00	2.64	
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.01	2.93	

Plan: ronco ronco ronco RS: 5 Profile: PF 3

E.G. Elev (m)	257.16	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.	0.045	0.020	
W.S. Elev (m)	257.15	Reach Len. (m)	47.85	46.94	46.44
Crit W.S. (m)		Flow Area (m2)	0.04	7.94	
E.G. Slope (m/m)	0.000090	Area (m2)	0.04	7.94	
Q Total (m3/s)	4.00	Flow (m3/s)	0.00	4.00	
Top Width (m)	6.06	Top Width (m)	0.30	5.76	
Vel Total (m/s)	0.50	Avg. Vel. (m/s)	0.05	0.50	
Max Chl Dpth (m)	1.92	Hydr. Depth (m)	0.13	1.38	
Conv. Total (m3/s)	421.4	Conv. (m3/s)	0.2	421.2	
Length Wtd. (m)	46.94	Wetted Per. (m)	0.40	7.26	
Min Ch El (m)	255.23	Shear (N/m2)	0.09	0.97	
Alpha	1.01	Stream Power (N/m s)	0.00	0.49	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.00	2.64	
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.01	2.93	

Plan: ronco ronco ronco RS: 4.3 Profile: PF 1

E.G. Elev (m)	257.15	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	257.08	Reach Len. (m)	252.57	272.16	278.44
Crit W.S. (m)	256.08	Flow Area (m2)		3.48	
E.G. Slope (m/m)	0.000253	Area (m2)		9.27	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	7.63	Top Width (m)		7.63	
Vel Total (m/s)	1.15	Avg. Vel. (m/s)		1.15	
Max Chl Dpth (m)	1.74	Hydr. Depth (m)		1.74	
Conv. Total (m3/s)	251.5	Conv. (m3/s)		251.5	
Length Wtd. (m)	272.16	Wetted Per. (m)		2.00	
Min Ch El (m)	255.34	Shear (N/m2)		4.31	
Alpha	1.00	Stream Power (N/m s)		4.96	
Frctn Loss (m)		Cum Volume (1000 m3)		2.24	
C & E Loss (m)		Cum SA (1000 m2)		2.61	

Plan: ronco ronco ronco RS: 4.3 Profile: PF 2

E.G. Elev (m)	257.15	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	257.08	Reach Len. (m)	252.57	272.16	278.44
Crit W.S. (m)	256.08	Flow Area (m2)		3.48	
E.G. Slope (m/m)	0.000253	Area (m2)		9.27	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	

Plan: ronco ronco ronco RS: 4.3 Profile: PF 2 (Continued)

Top Width (m)	7.63	Top Width (m)		7.63	
Vel Total (m/s)	1.15	Avg. Vel. (m/s)		1.15	
Max Chl Dpth (m)	1.74	Hydr. Depth (m)		1.74	
Conv. Total (m3/s)	251.5	Conv. (m3/s)		251.5	
Length Wtd. (m)	272.16	Wetted Per. (m)		2.00	
Min Ch El (m)	255.34	Shear (N/m2)		4.31	
Alpha	1.00	Stream Power (N/m s)		4.96	
Frctn Loss (m)		Cum Volume (1000 m3)		2.24	
C & E Loss (m)		Cum SA (1000 m2)		2.61	

Plan: ronco ronco ronco RS: 4.3 Profile: PF 3

E.G. Elev (m)	257.15	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	257.08	Reach Len. (m)	252.57	272.16	278.44
Crit W.S. (m)	256.08	Flow Area (m2)		3.48	
E.G. Slope (m/m)	0.000253	Area (m2)		9.27	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	7.63	Top Width (m)		7.63	
Vel Total (m/s)	1.15	Avg. Vel. (m/s)		1.15	
Max Chl Dpth (m)	1.74	Hydr. Depth (m)		1.74	
Conv. Total (m3/s)	251.5	Conv. (m3/s)		251.5	
Length Wtd. (m)	272.16	Wetted Per. (m)		2.00	
Min Ch El (m)	255.34	Shear (N/m2)		4.31	
Alpha	1.00	Stream Power (N/m s)		4.96	
Frctn Loss (m)		Cum Volume (1000 m3)		2.24	
C & E Loss (m)		Cum SA (1000 m2)		2.61	

Plan: ronco ronco ronco RS: 3.2 Profile: PF 1

E.G. Elev (m)	256.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	255.97	Reach Len. (m)	139.96	140.74	141.00
Crit W.S. (m)	255.94	Flow Area (m2)		1.54	
E.G. Slope (m/m)	0.003874	Area (m2)		3.08	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	4.86	Top Width (m)		4.86	
Vel Total (m/s)	2.61	Avg. Vel. (m/s)		2.61	
Max Chl Dpth (m)	0.77	Hydr. Depth (m)		0.77	
Conv. Total (m3/s)	64.3	Conv. (m3/s)		64.3	
Length Wtd. (m)	140.74	Wetted Per. (m)		2.00	
Min Ch El (m)	255.20	Shear (N/m2)		29.11	
Alpha	1.00	Stream Power (N/m s)		75.84	
Frctn Loss (m)	0.43	Cum Volume (1000 m3)		0.56	
C & E Loss (m)	0.06	Cum SA (1000 m2)		0.91	

Plan: ronco ronco ronco RS: 3.2 Profile: PF 2

E.G. Elev (m)	256.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	255.97	Reach Len. (m)	139.96	140.74	141.00
Crit W.S. (m)	255.94	Flow Area (m2)		1.54	
E.G. Slope (m/m)	0.003873	Area (m2)		3.08	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	4.86	Top Width (m)		4.86	
Vel Total (m/s)	2.61	Avg. Vel. (m/s)		2.61	
Max Chl Dpth (m)	0.77	Hydr. Depth (m)		0.77	
Conv. Total (m3/s)	64.3	Conv. (m3/s)		64.3	
Length Wtd. (m)	140.74	Wetted Per. (m)		2.00	
Min Ch El (m)	255.20	Shear (N/m2)		29.10	

Plan: ronco ronco ronco RS: 3.2 Profile: PF 2 (Continued)

Alpha	1.00	Stream Power (N/m s)		75.83	
Frctn Loss (m)	0.43	Cum Volume (1000 m3)		0.56	
C & E Loss (m)	0.06	Cum SA (1000 m2)		0.91	

Plan: ronco ronco ronco RS: 3.2 Profile: PF 3

E.G. Elev (m)	256.32	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	255.97	Reach Len. (m)	139.96	140.74	141.00
Crit W.S. (m)	255.94	Flow Area (m2)		1.54	
E.G. Slope (m/m)	0.003873	Area (m2)		3.08	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	4.86	Top Width (m)		4.86	
Vel Total (m/s)	2.61	Avg. Vel. (m/s)		2.61	
Max Chl Dpth (m)	0.77	Hydr. Depth (m)		0.77	
Conv. Total (m3/s)	64.3	Conv. (m3/s)		64.3	
Length Wtd. (m)	140.74	Wetted Per. (m)		2.00	
Min Ch El (m)	255.20	Shear (N/m2)		29.10	
Alpha	1.00	Stream Power (N/m s)		75.83	
Frctn Loss (m)	0.43	Cum Volume (1000 m3)		0.56	
C & E Loss (m)	0.06	Cum SA (1000 m2)		0.91	

Plan: ronco ronco ronco RS: 2 Profile: PF 1

E.G. Elev (m)	255.83	Element	Left OB	Channel	Right OB
Vel Head (m)	0.14	Wt. n-Val.		0.020	
W.S. Elev (m)	255.70	Reach Len. (m)	79.25	80.52	81.72
Crit W.S. (m)		Flow Area (m2)		2.45	
E.G. Slope (m/m)	0.002426	Area (m2)		2.45	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	3.87	Top Width (m)		3.87	
Vel Total (m/s)	1.63	Avg. Vel. (m/s)		1.63	
Max Chl Dpth (m)	0.81	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	81.2	Conv. (m3/s)		81.2	
Length Wtd. (m)	80.52	Wetted Per. (m)		4.56	
Min Ch El (m)	254.89	Shear (N/m2)		12.81	
Alpha	1.00	Stream Power (N/m s)		20.87	
Frctn Loss (m)	0.29	Cum Volume (1000 m3)		0.17	
C & E Loss (m)	0.01	Cum SA (1000 m2)		0.30	

Plan: ronco ronco ronco RS: 2 Profile: PF 2

E.G. Elev (m)	255.83	Element	Left OB	Channel	Right OB
Vel Head (m)	0.14	Wt. n-Val.		0.020	
W.S. Elev (m)	255.70	Reach Len. (m)	79.25	80.52	81.72
Crit W.S. (m)		Flow Area (m2)		2.45	
E.G. Slope (m/m)	0.002428	Area (m2)		2.45	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	3.87	Top Width (m)		3.87	
Vel Total (m/s)	1.63	Avg. Vel. (m/s)		1.63	
Max Chl Dpth (m)	0.81	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	81.2	Conv. (m3/s)		81.2	
Length Wtd. (m)	80.52	Wetted Per. (m)		4.56	
Min Ch El (m)	254.89	Shear (N/m2)		12.82	
Alpha	1.00	Stream Power (N/m s)		20.89	
Frctn Loss (m)	0.29	Cum Volume (1000 m3)		0.17	
C & E Loss (m)	0.01	Cum SA (1000 m2)		0.30	

Plan: ronco ronco ronco RS: 2 Profile: PF 3

E.G. Elev (m)	255.83	Element	Left OB	Channel	Right OB
Vel Head (m)	0.14	Wt. n-Val.		0.020	
W.S. Elev (m)	255.70	Reach Len. (m)	79.25	80.52	81.72
Crit W.S. (m)		Flow Area (m2)		2.45	
E.G. Slope (m/m)	0.002428	Area (m2)		2.45	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	3.87	Top Width (m)		3.87	
Vel Total (m/s)	1.63	Avg. Vel. (m/s)		1.63	
Max Chl Dpth (m)	0.81	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	81.2	Conv. (m3/s)		81.2	
Length Wtd. (m)	80.52	Wetted Per. (m)		4.56	
Min Ch El (m)	254.89	Shear (N/m2)		12.82	
Alpha	1.00	Stream Power (N/m s)		20.89	
Frctn Loss (m)	0.29	Cum Volume (1000 m3)		0.17	
C & E Loss (m)	0.01	Cum SA (1000 m2)		0.30	

Plan: ronco ronco ronco RS: 1 Profile: PF 1

E.G. Elev (m)	255.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.26	Wt. n-Val.		0.020	
W.S. Elev (m)	255.27	Reach Len. (m)			
Crit W.S. (m)	255.27	Flow Area (m2)		1.78	
E.G. Slope (m/m)	0.006003	Area (m2)		1.78	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	3.54	Top Width (m)		3.54	
Vel Total (m/s)	2.25	Avg. Vel. (m/s)		2.25	
Max Chl Dpth (m)	0.78	Hydr. Depth (m)		0.50	
Conv. Total (m3/s)	51.6	Conv. (m3/s)		51.6	
Length Wtd. (m)		Wetted Per. (m)		4.04	
Min Ch El (m)	254.49	Shear (N/m2)		25.98	
Alpha	1.00	Stream Power (N/m s)		58.34	
Frctn Loss (m)		Cum Volume (1000 m3)			
C & E Loss (m)		Cum SA (1000 m2)			

Plan: ronco ronco ronco RS: 1 Profile: PF 2

E.G. Elev (m)	255.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.26	Wt. n-Val.		0.020	
W.S. Elev (m)	255.27	Reach Len. (m)			
Crit W.S. (m)	255.27	Flow Area (m2)		1.78	
E.G. Slope (m/m)	0.005994	Area (m2)		1.78	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	
Top Width (m)	3.54	Top Width (m)		3.54	
Vel Total (m/s)	2.24	Avg. Vel. (m/s)		2.24	
Max Chl Dpth (m)	0.78	Hydr. Depth (m)		0.50	
Conv. Total (m3/s)	51.7	Conv. (m3/s)		51.7	
Length Wtd. (m)		Wetted Per. (m)		4.04	
Min Ch El (m)	254.49	Shear (N/m2)		25.95	
Alpha	1.00	Stream Power (N/m s)		58.24	
Frctn Loss (m)		Cum Volume (1000 m3)			
C & E Loss (m)		Cum SA (1000 m2)			

Plan: ronco ronco ronco RS: 1 Profile: PF 3

E.G. Elev (m)	255.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.26	Wt. n-Val.		0.020	
W.S. Elev (m)	255.27	Reach Len. (m)			
Crit W.S. (m)	255.27	Flow Area (m2)		1.78	
E.G. Slope (m/m)	0.005994	Area (m2)		1.78	
Q Total (m3/s)	4.00	Flow (m3/s)		4.00	

Plan: ronco ronco ronco RS: 1 Profile: PF 3 (Continued)

Top Width (m)	3.54	Top Width (m)		3.54	
Vel Total (m/s)	2.24	Avg. Vel. (m/s)		2.24	
Max Chl Dpth (m)	0.78	Hydr. Depth (m)		0.50	
Conv. Total (m3/s)	51.7	Conv. (m3/s)		51.7	
Length Wtd. (m)		Wetted Per. (m)		4.04	
Min Ch El (m)	254.49	Shear (N/m2)		25.95	
Alpha	1.00	Stream Power (N/m s)		58.24	
Frctn Loss (m)		Cum Volume (1000 m3)			
C & E Loss (m)		Cum SA (1000 m2)			

Parte 2b:

MODELLO 2 – Canale Vado Peloso

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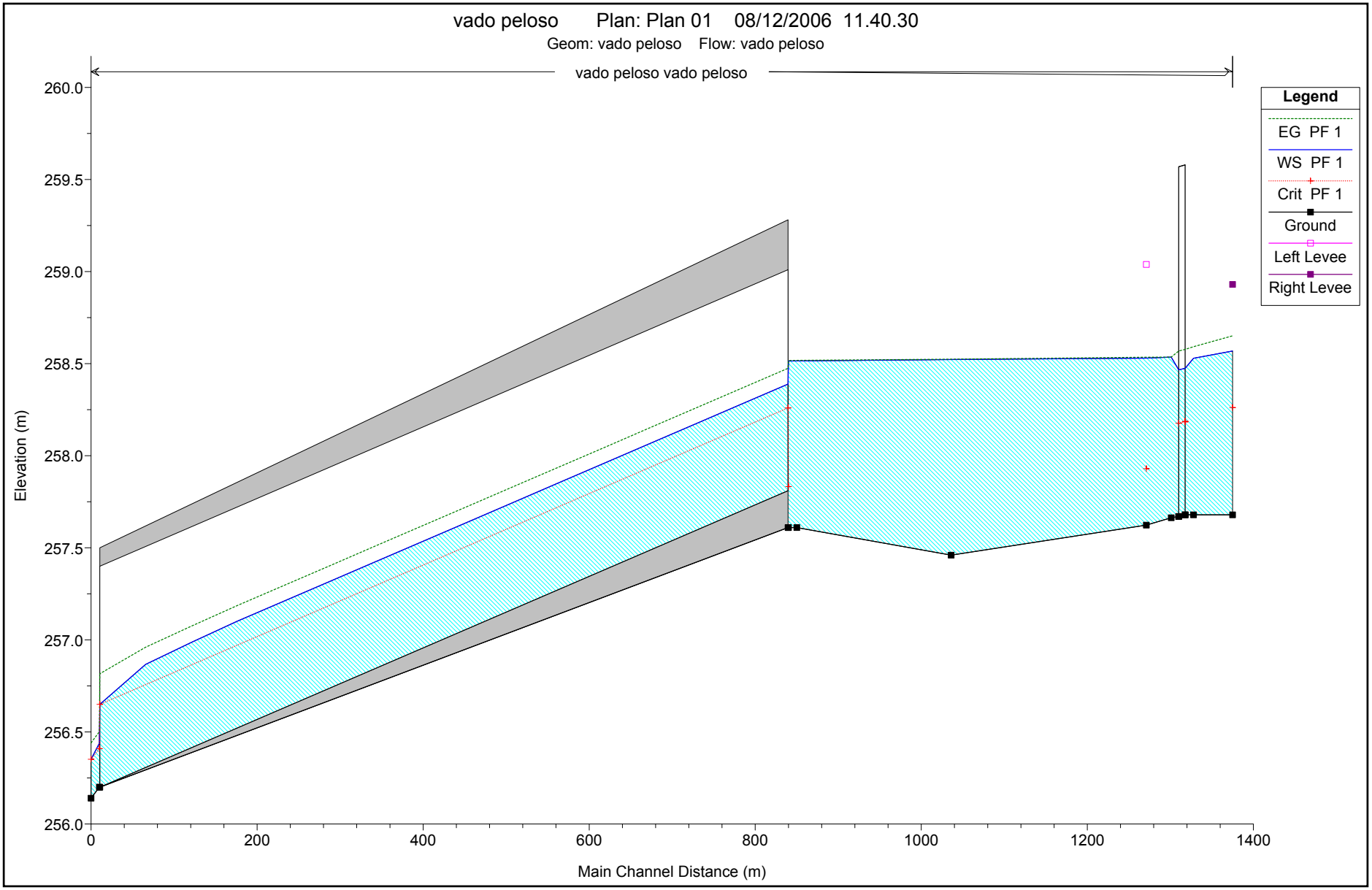
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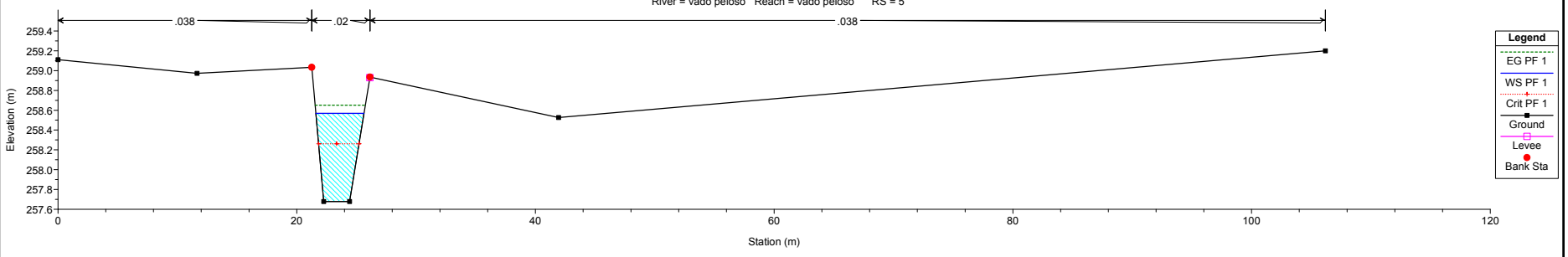
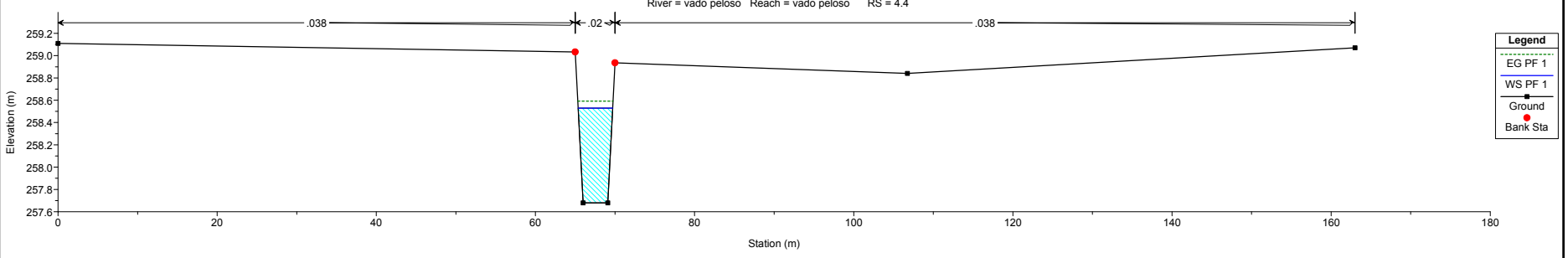
Geom: vado peloso Flow: vado peloso
vado peloso vado peloso
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Left Levee
Right Levee
Elevation (m)
260.0
259.5
259.0
258.5
258.0
257.5
257.0
256.5
256.0
0
200
400
600
800
1000
1200
1400
Main Channel Distance (m)

vado peloso Plan: Plan 01 08/12/2006 11.40.30
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 5



vado peloso Plan: Plan 01 08/12/2006 11.40.30
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 4.4



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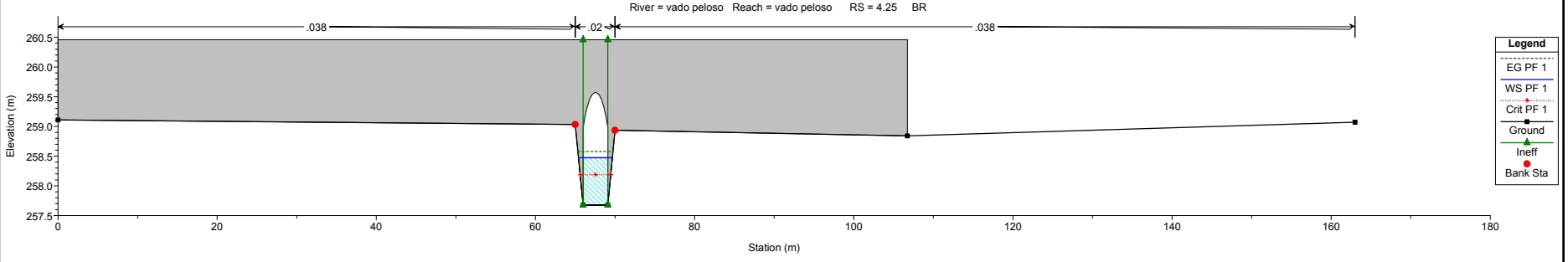
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 4.25 BR



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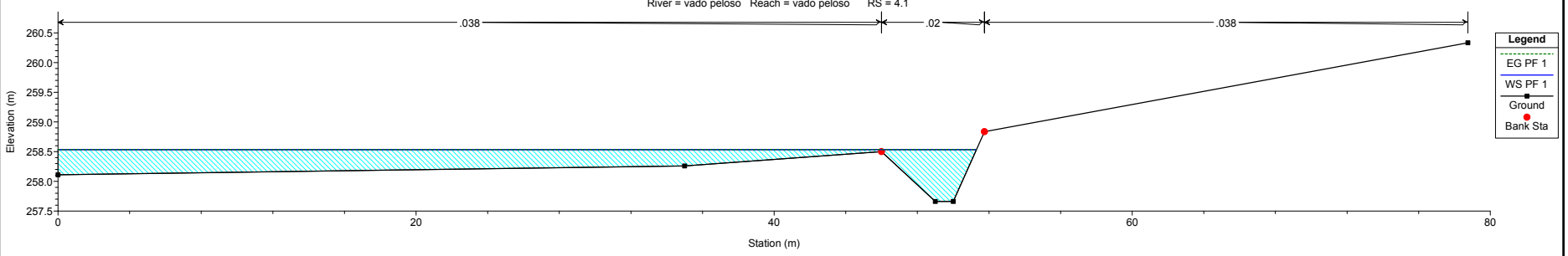
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 4.1



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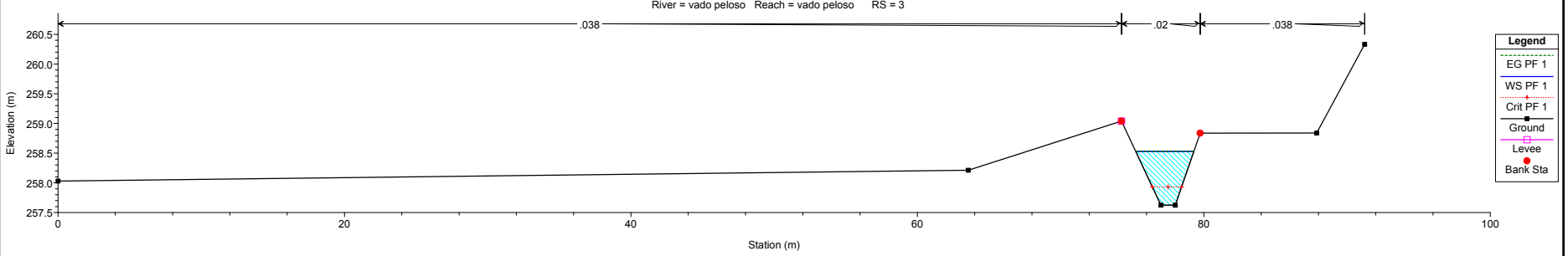
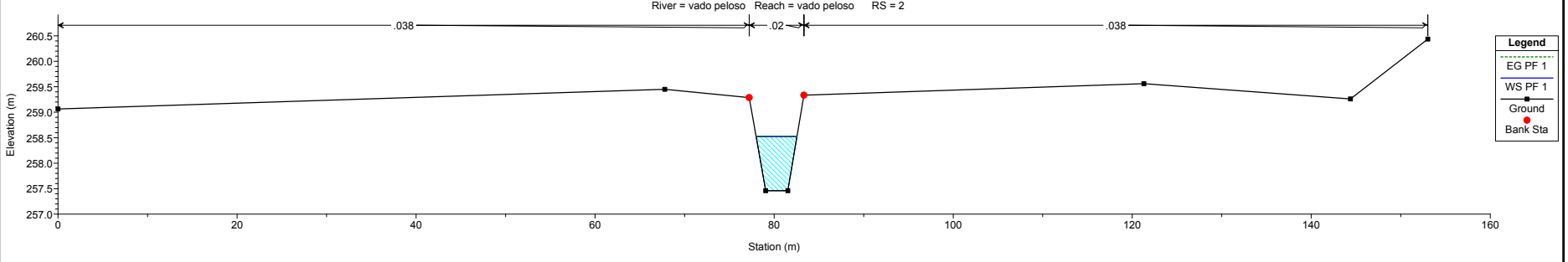
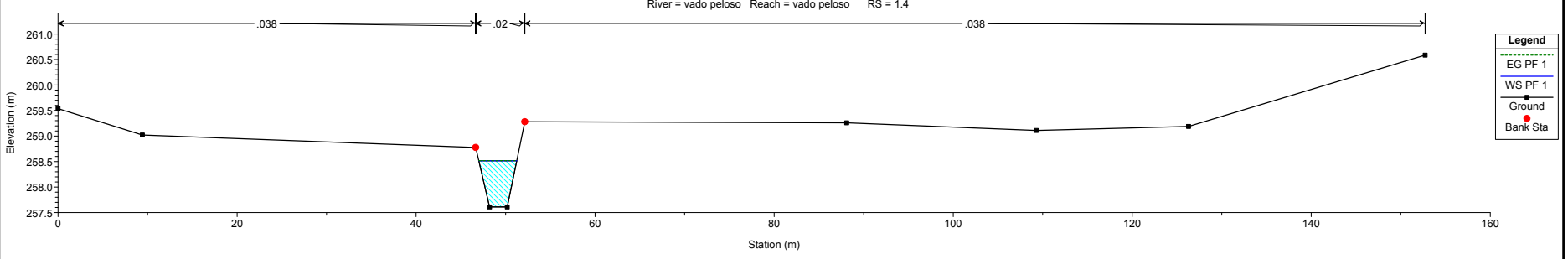
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 3



vado peloso Plan: Plan 01 08/12/2006 11.40.30
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 2



vado peloso Plan: Plan 01 08/12/2006 11.40.30
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 1.4



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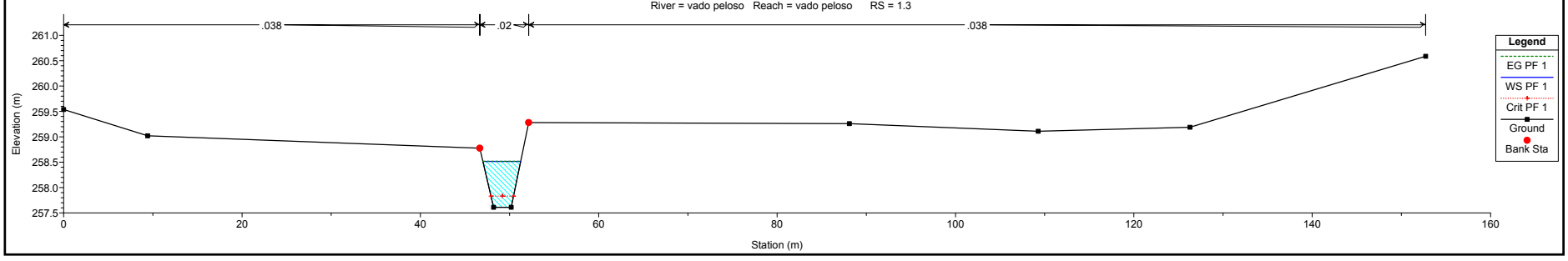
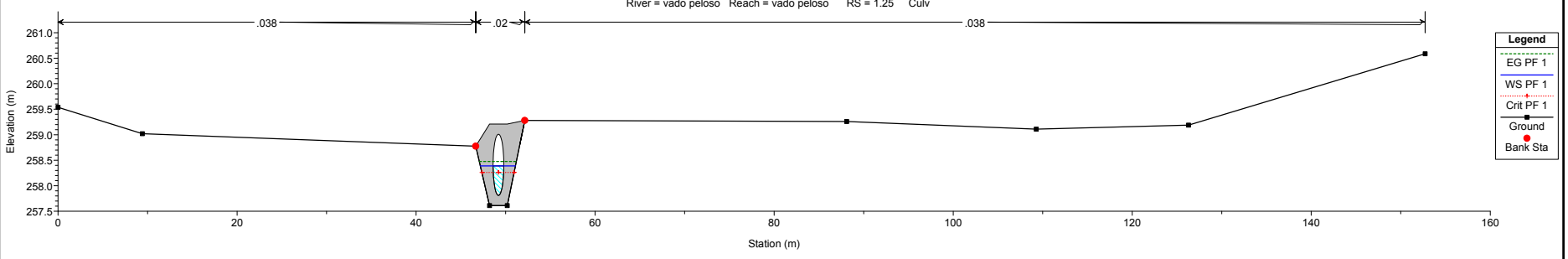
Geom: vado peloso Flow: vado peloso
River = vado peloso Reach = vado peloso RS = 1.3



vado peloso Plan: Plan 01 08/12/2006 11.40.30

Geom: vado peloso Flow: vado peloso

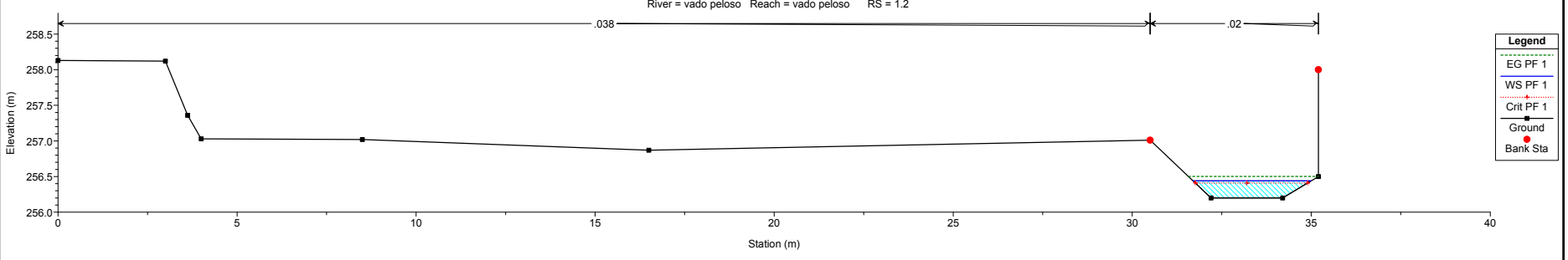
River = vado peloso Reach = vado peloso RS = 1.25 Culv



vado peloso Plan: Plan 01 08/12/2006 11.40.30

Geom: vado peloso Flow: vado peloso

River = vado peloso Reach = vado peloso RS = 1.2



Plan: Plan 01 vado peloso vado peloso RS: 5 Profile: PF 1

E.G. Elev (m)	258.65	Element	Left OB	Channel	Right OB
Vel Head (m)	0.08	Wt. n-Val.		0.020	
W.S. Elev (m)	258.57	Reach Len. (m)	2.00	47.00	66.00
Crit W.S. (m)	258.26	Flow Area (m2)		2.75	
E.G. Slope (m/m)	0.001344	Area (m2)		2.75	
Q Total (m3/s)	3.50	Flow (m3/s)		3.50	
Top Width (m)	4.03	Top Width (m)		4.03	
Vel Total (m/s)	1.27	Avg. Vel. (m/s)		1.27	
Max Chl Dpth (m)	0.89	Hydr. Depth (m)		0.68	
Conv. Total (m3/s)	95.5	Conv. (m3/s)		95.5	
Length Wtd. (m)	47.00	Wetted Per. (m)		4.77	
Min Ch El (m)	257.68	Shear (N/m2)		7.61	
Alpha	1.00	Stream Power (N/m s)		9.67	
Frctn Loss (m)	0.05	Cum Volume (1000 m3)	0.62	3.07	
C & E Loss (m)	0.01	Cum SA (1000 m2)	2.05	5.48	

Plan: Plan 01 vado peloso vado peloso RS: 4.4 Profile: PF 1

E.G. Elev (m)	258.59	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	258.53	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		3.16	
E.G. Slope (m/m)	0.000952	Area (m2)		3.16	
Q Total (m3/s)	3.50	Flow (m3/s)		3.50	
Top Width (m)	4.34	Top Width (m)		4.34	
Vel Total (m/s)	1.11	Avg. Vel. (m/s)		1.11	
Max Chl Dpth (m)	0.85	Hydr. Depth (m)		0.73	
Conv. Total (m3/s)	113.4	Conv. (m3/s)		113.4	
Length Wtd. (m)	10.00	Wetted Per. (m)		5.20	
Min Ch El (m)	257.68	Shear (N/m2)		5.67	
Alpha	1.00	Stream Power (N/m s)		6.28	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.62	2.93	
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.05	5.28	

Plan: Plan 01 vado peloso vado peloso RS: 4.25 BR U Profile: PF 1

E.G. Elev (m)	258.57	Element	Left OB	Channel	Right OB
Vel Head (m)	0.10	Wt. n-Val.		0.020	
W.S. Elev (m)	258.47	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	258.18	Flow Area (m2)		2.47	
E.G. Slope (m/m)	0.001089	Area (m2)		2.47	
Q Total (m3/s)	3.50	Flow (m3/s)		3.50	
Top Width (m)	3.10	Top Width (m)		3.10	
Vel Total (m/s)	1.42	Avg. Vel. (m/s)		1.42	
Max Chl Dpth (m)	0.80	Hydr. Depth (m)		0.80	
Conv. Total (m3/s)	106.1	Conv. (m3/s)		106.1	
Length Wtd. (m)	0.10	Wetted Per. (m)		3.10	
Min Ch El (m)	257.67	Shear (N/m2)		8.50	
Alpha	1.00	Stream Power (N/m s)		12.06	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.62	2.88	
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.05	5.21	

Plan: Plan 01 vado peloso vado peloso RS: 4.2 Profile: PF 1

E.G. Elev (m)	258.57	Element	Left OB	Channel	Right OB
Vel Head (m)	0.10	Wt. n-Val.		0.020	
W.S. Elev (m)	258.47	Reach Len. (m)	75.00	9.00	1.00
Crit W.S. (m)		Flow Area (m2)		2.47	
E.G. Slope (m/m)	0.001090	Area (m2)		2.93	
Q Total (m3/s)	3.50	Flow (m3/s)		3.50	

Plan: Plan 01 vado peloso vado peloso RS: 4.2 Profile: PF 1 (Continued)

Top Width (m)	4.25	Top Width (m)		4.25	
Vel Total (m/s)	1.42	Avg. Vel. (m/s)		1.42	
Max Chl Dpth (m)	0.80	Hydr. Depth (m)		0.80	
Conv. Total (m3/s)	106.0	Conv. (m3/s)		106.0	
Length Wtd. (m)	16.19	Wetted Per. (m)		3.10	
Min Ch El (m)	257.67	Shear (N/m2)		8.51	
Alpha	1.00	Stream Power (N/m s)		12.06	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.62	2.88	
C & E Loss (m)	0.03	Cum SA (1000 m2)	2.05	5.21	

Plan: Plan 01 vado peloso vado peloso RS: 3 Profile: PF 1

E.G. Elev (m)	258.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	
W.S. Elev (m)	258.53	Reach Len. (m)	256.00	235.00	234.00
Crit W.S. (m)	257.93	Flow Area (m2)		2.30	
E.G. Slope (m/m)	0.000093	Area (m2)		2.30	
Q Total (m3/s)	0.70	Flow (m3/s)		0.70	
Top Width (m)	4.07	Top Width (m)		4.07	
Vel Total (m/s)	0.30	Avg. Vel. (m/s)		0.30	
Max Chl Dpth (m)	0.91	Hydr. Depth (m)		0.56	
Conv. Total (m3/s)	72.6	Conv. (m3/s)		72.6	
Length Wtd. (m)	235.00	Wetted Per. (m)		4.57	
Min Ch El (m)	257.62	Shear (N/m2)		0.46	
Alpha	1.00	Stream Power (N/m s)		0.14	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		2.78	
C & E Loss (m)	0.00	Cum SA (1000 m2)		5.03	

Plan: Plan 01 vado peloso vado peloso RS: 2 Profile: PF 1

E.G. Elev (m)	258.52	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	
W.S. Elev (m)	258.52	Reach Len. (m)	185.00	186.00	187.00
Crit W.S. (m)		Flow Area (m2)		3.73	
E.G. Slope (m/m)	0.000023	Area (m2)		3.73	
Q Total (m3/s)	0.70	Flow (m3/s)		0.70	
Top Width (m)	4.55	Top Width (m)		4.55	
Vel Total (m/s)	0.19	Avg. Vel. (m/s)		0.19	
Max Chl Dpth (m)	1.06	Hydr. Depth (m)		0.82	
Conv. Total (m3/s)	144.9	Conv. (m3/s)		144.9	
Length Wtd. (m)	186.00	Wetted Per. (m)		5.45	
Min Ch El (m)	257.46	Shear (N/m2)		0.16	
Alpha	1.00	Stream Power (N/m s)		0.03	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		2.07	
C & E Loss (m)	0.00	Cum SA (1000 m2)		4.01	

Plan: Plan 01 vado peloso vado peloso RS: 1.4 Profile: PF 1

E.G. Elev (m)	258.52	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	
W.S. Elev (m)	258.51	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)		Flow Area (m2)		2.81	
E.G. Slope (m/m)	0.000052	Area (m2)		2.81	
Q Total (m3/s)	0.70	Flow (m3/s)		0.70	
Top Width (m)	4.23	Top Width (m)		4.23	
Vel Total (m/s)	0.25	Avg. Vel. (m/s)		0.25	
Max Chl Dpth (m)	0.90	Hydr. Depth (m)		0.66	
Conv. Total (m3/s)	97.3	Conv. (m3/s)		97.3	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.87	
Min Ch El (m)	257.61	Shear (N/m2)		0.29	

Plan: Plan 01 vado peloso vado peloso RS: 1.4 Profile: PF 1 (Continued)

Alpha	1.00	Stream Power (N/m s)		0.07	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)		1.46	
C & E Loss (m)	0.00	Cum SA (1000 m2)		3.20	

Plan: Plan 01 vado peloso vado peloso RS: 1.2 Profile: PF 1

E.G. Elev (m)	256.50	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	256.44	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	256.41	Flow Area (m2)		0.63	
E.G. Slope (m/m)	0.004590	Area (m2)		0.63	
Q Total (m3/s)	0.70	Flow (m3/s)		0.70	
Top Width (m)	3.30	Top Width (m)		3.30	
Vel Total (m/s)	1.11	Avg. Vel. (m/s)		1.11	
Max Chl Dpth (m)	0.24	Hydr. Depth (m)		0.19	
Conv. Total (m3/s)	10.3	Conv. (m3/s)		10.3	
Length Wtd. (m)	10.00	Wetted Per. (m)		3.39	
Min Ch El (m)	256.20	Shear (N/m2)		8.41	
Alpha	1.00	Stream Power (N/m s)		9.30	
Frctn Loss (m)	0.06	Cum Volume (1000 m3)		0.01	
C & E Loss (m)	0.00	Cum SA (1000 m2)		0.03	

Parte 2c:

MODELLO 3 – Bealera dei Bastioni / Vernette

Via Carducci 15, 13044 CRESCENTINO (VC)
Tel. 0161842055/3482443334
Dom. fisc. Via Piazzone 19 10020 BROZOLO (TO)

e-mail marco.novo@plion.it
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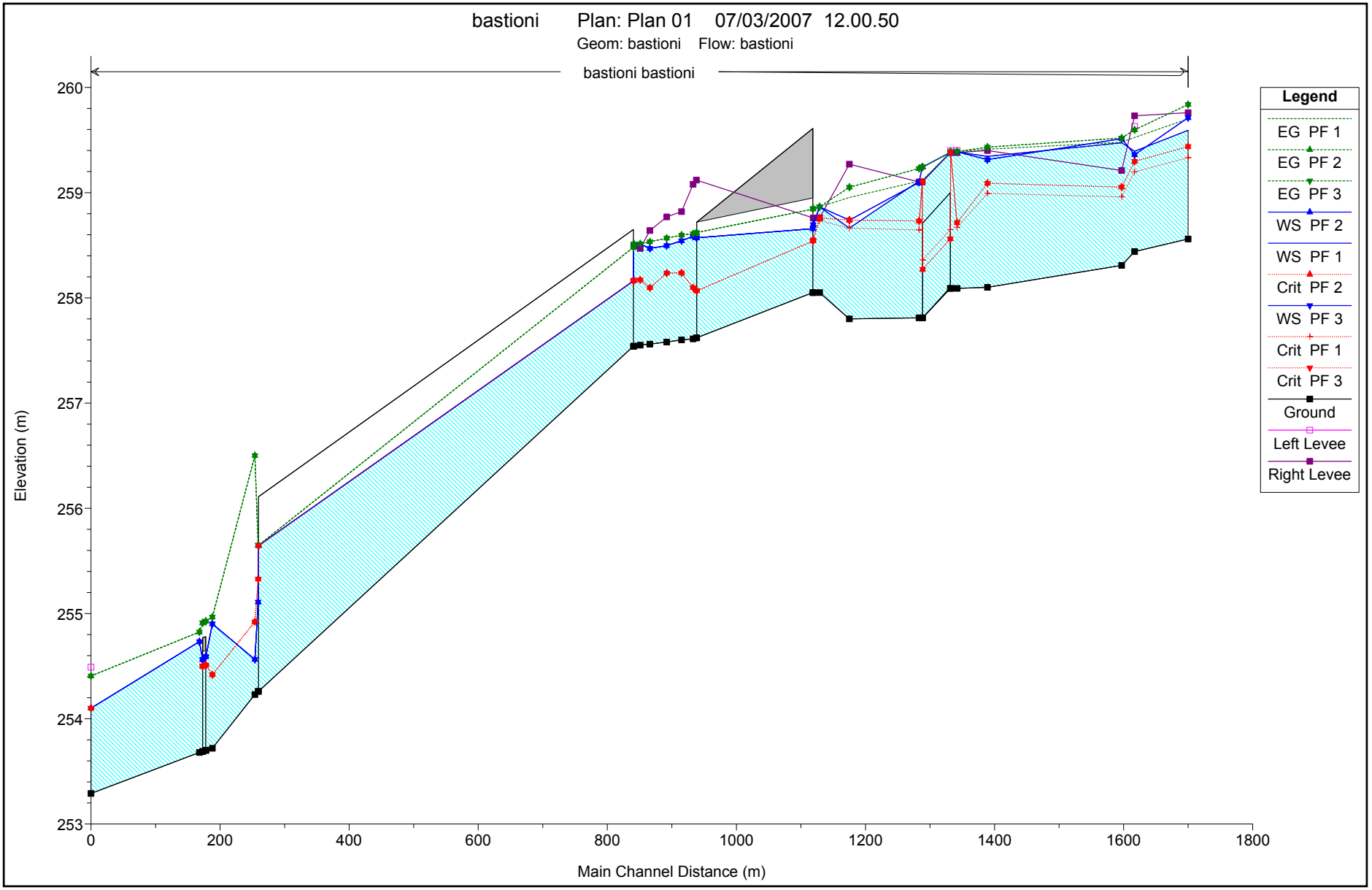
n.419 Ordine dei Geologi del Piemonte (P.IVA 07633500017)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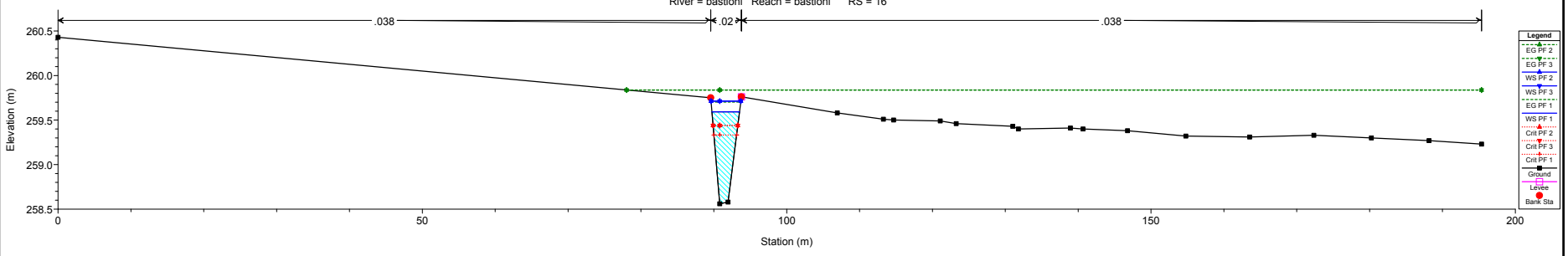
Geom: bastioni Flow: bastioni
bastioni bastioni
Elevation (m)
260
259
258
257
256
255
254
253
0
200
400
600
800
1000
1200
1400
1600
1800
Main Channel Distance (m)
Legend
EG PF 1
EG PF 2
EG PF 3
WS PF 2
WS PF 1
Crit PF 2
WS PF 3
Crit PF 1
Crit PF 3
Ground
Left Levee
Right Levee

bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 16



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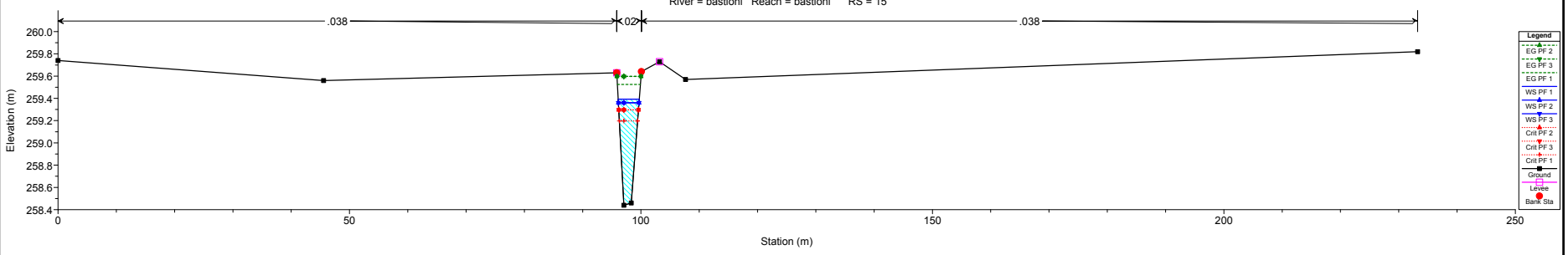
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 15



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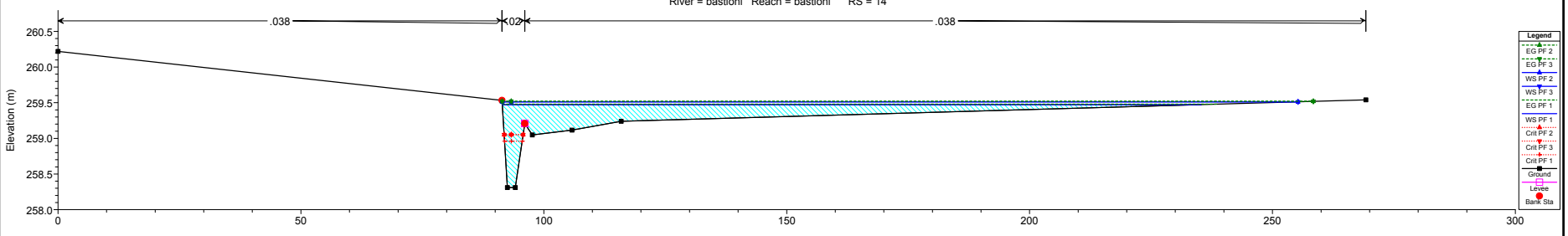
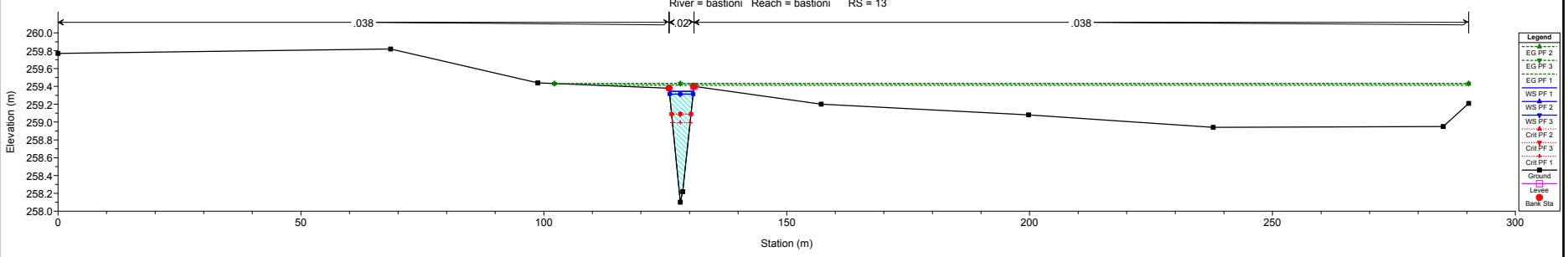
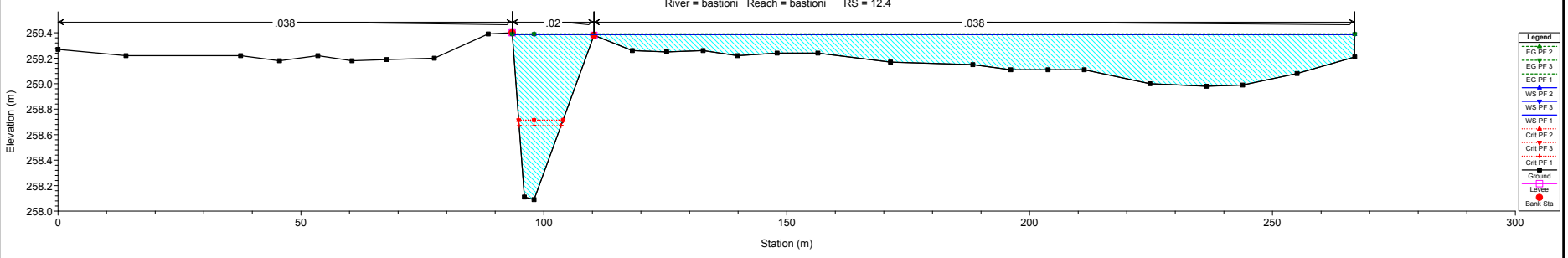
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 14



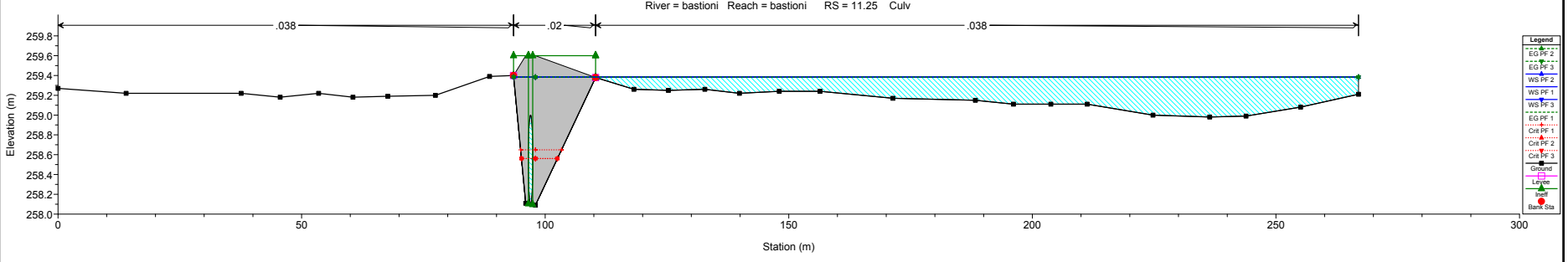
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 13



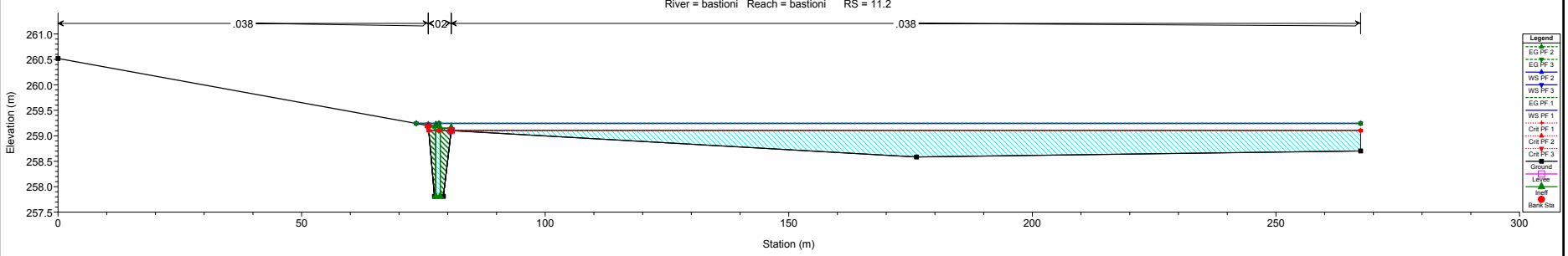
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 12.4



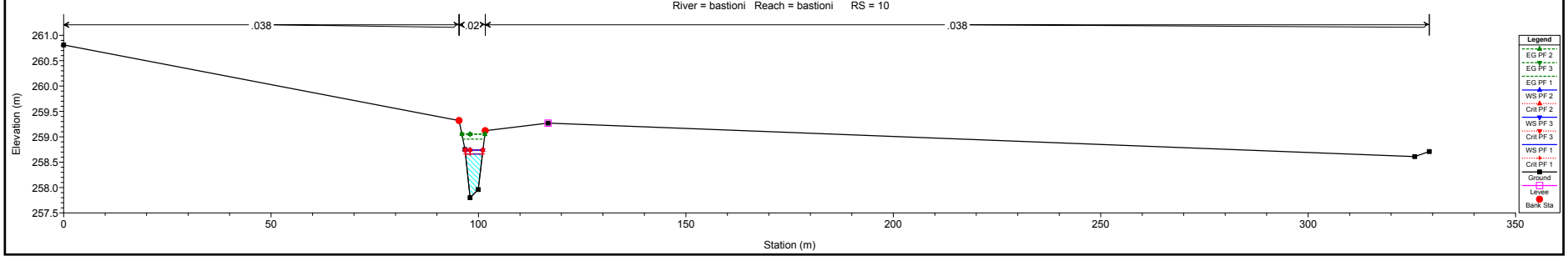
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 11.25 Culv



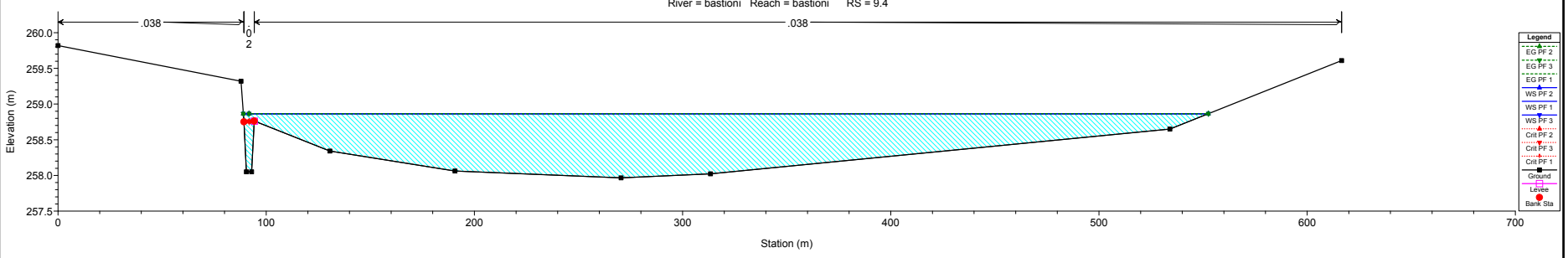
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 11.2



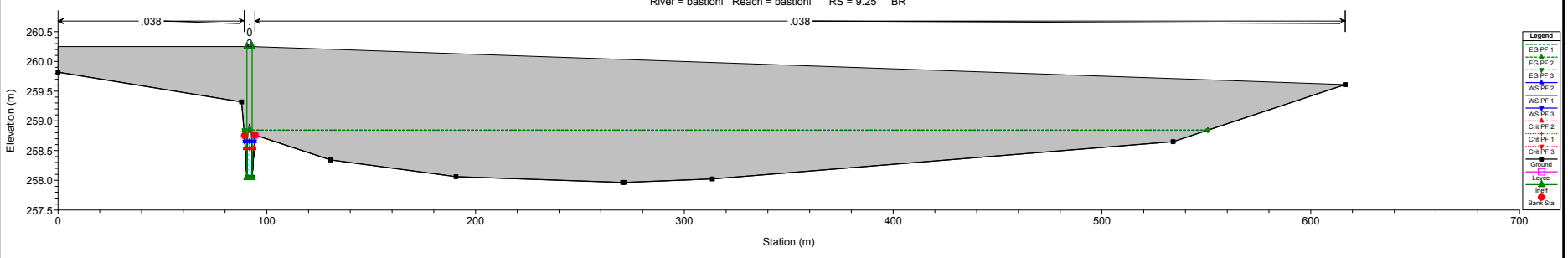
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 10



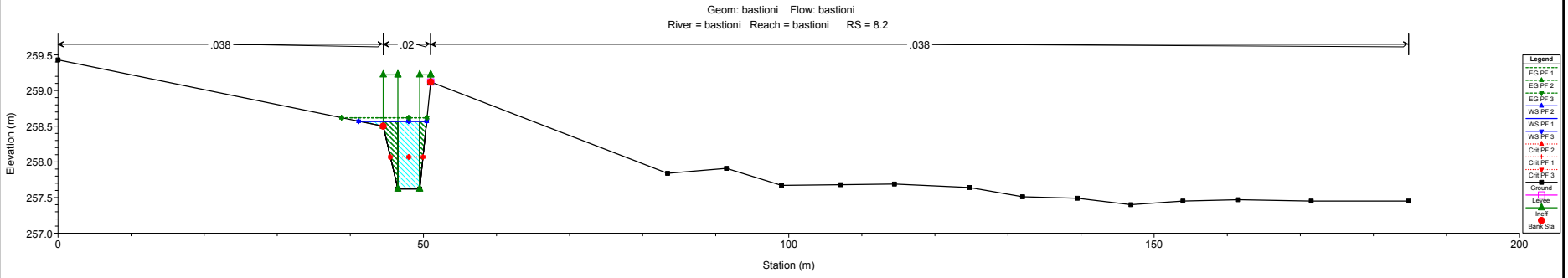
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 9.4



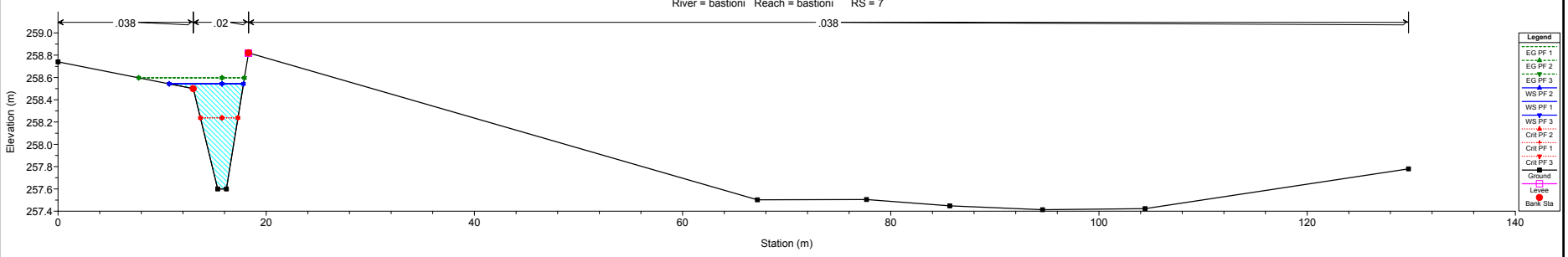
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 9.25 BR



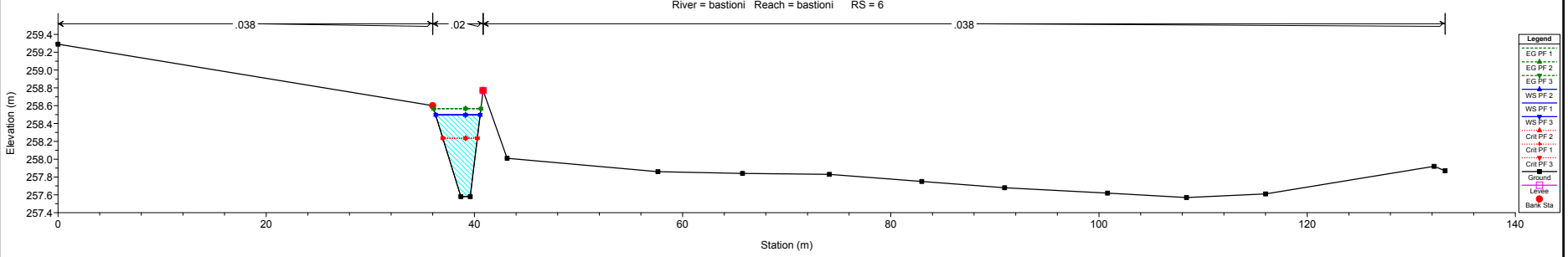
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 8.2



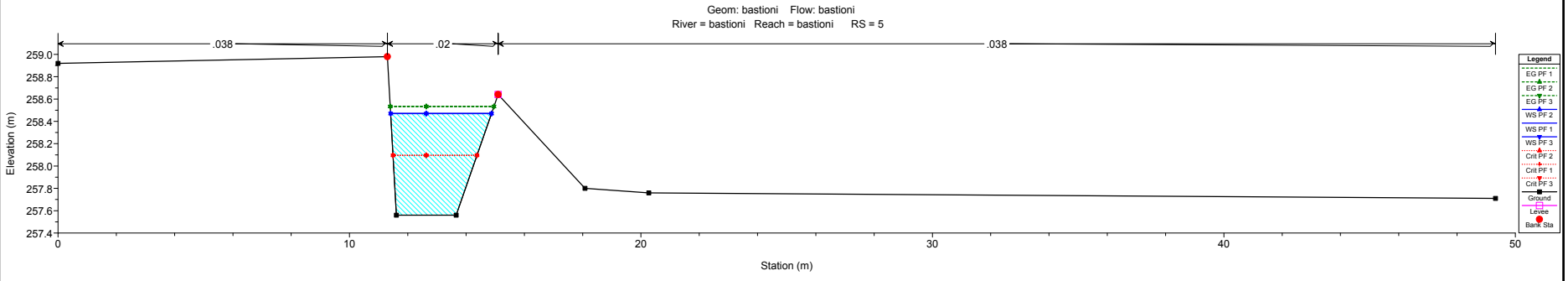
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 7



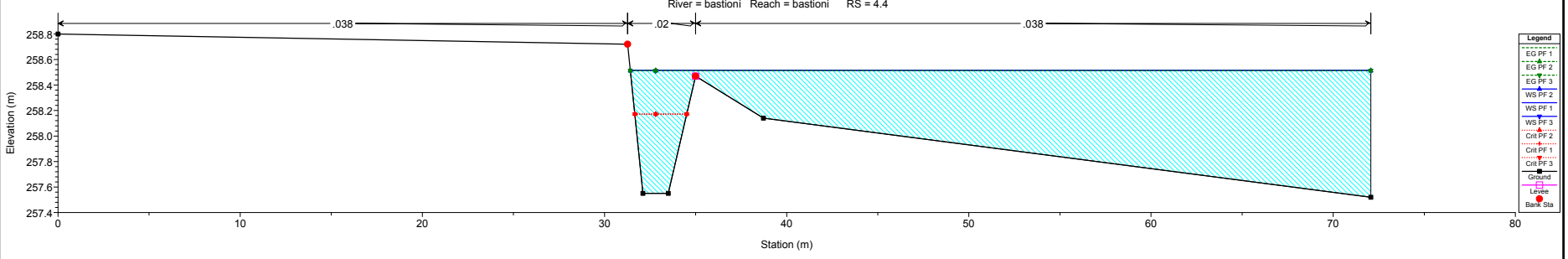
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 6



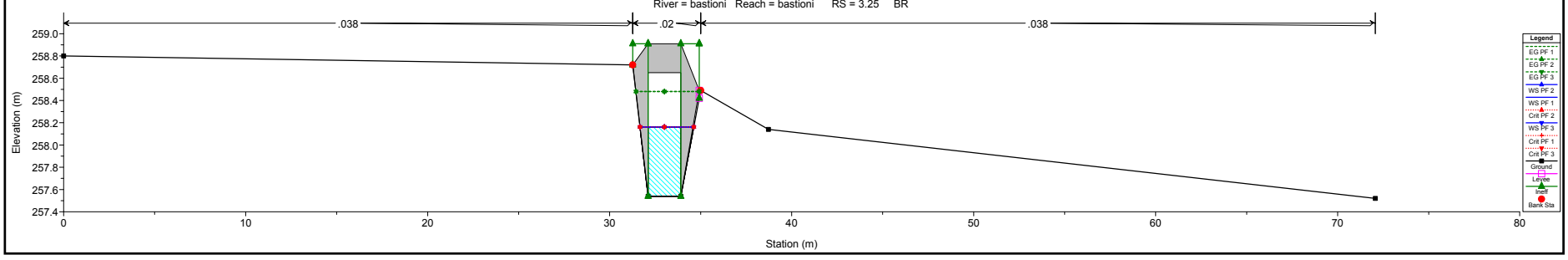
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 5



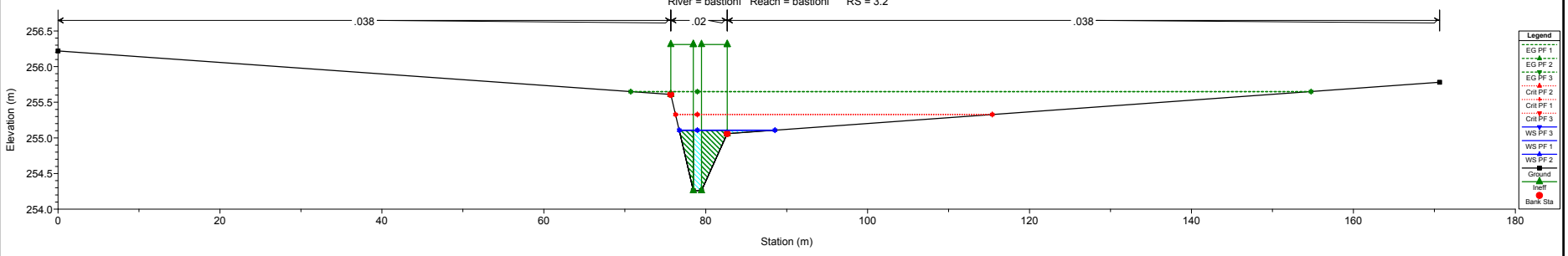
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 4.4



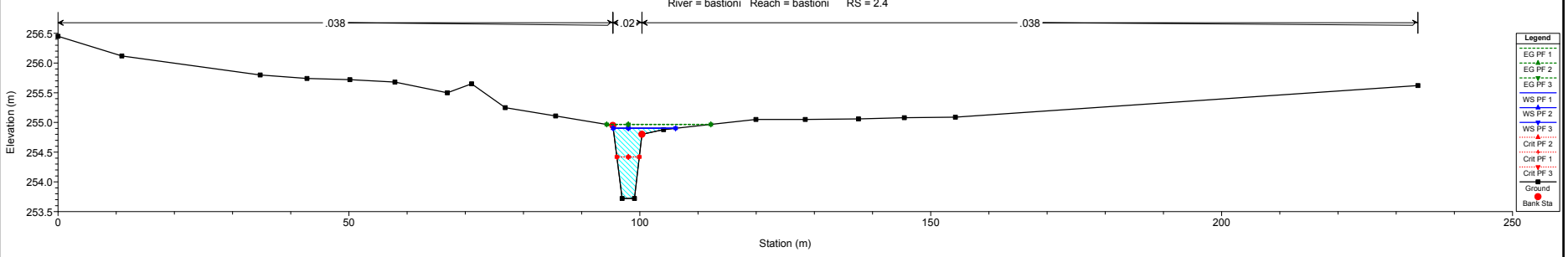
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 3.25 BR



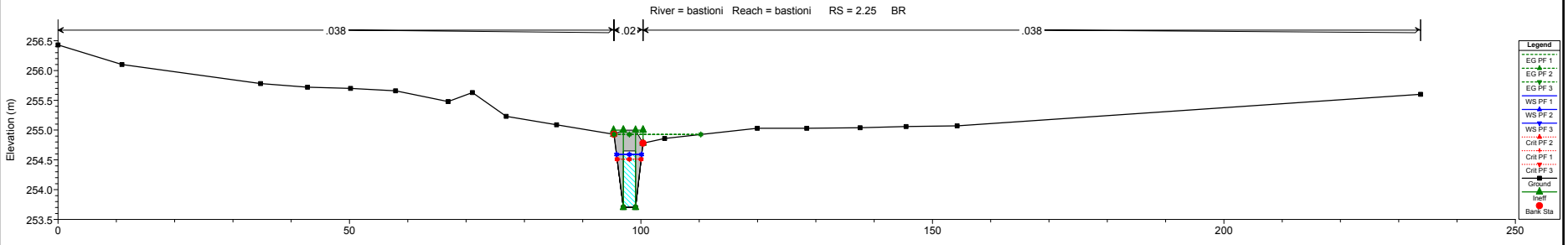
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 3.2



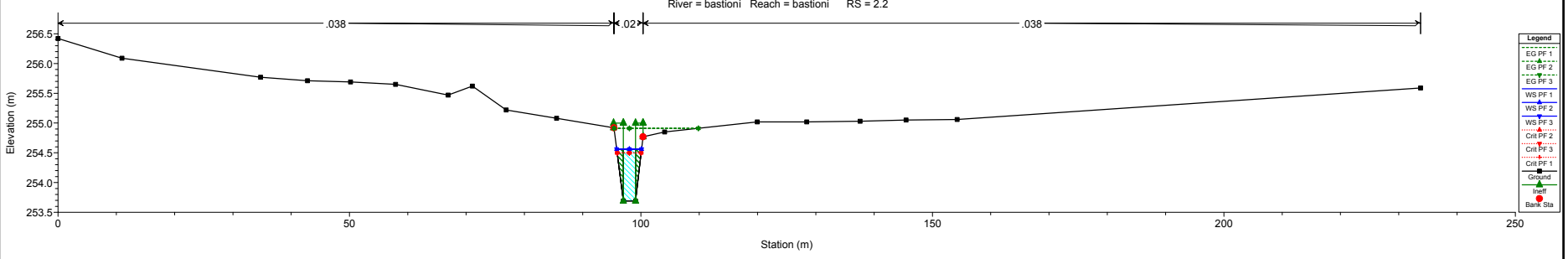
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 2.4



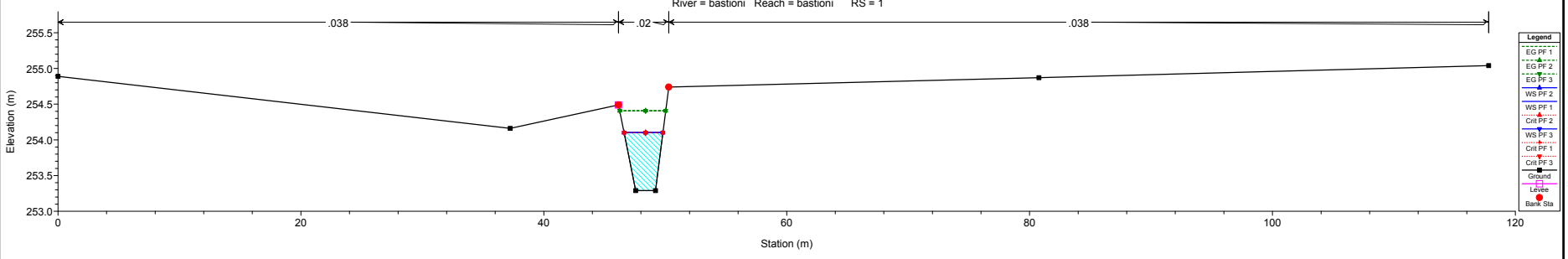
bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 2.25 BR



bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 2.2



bastioni Plan: Plan 01 07/03/2007 12.00.50
Geom: bastioni Flow: bastioni
River = bastioni Reach = bastioni RS = 1



Plan: Plan 01 bastioni bastioni RS: 16 Profile: PF 1

E.G. Elev (m)	259.70	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	259.59	Reach Len. (m)	89.00	83.00	80.00
Crit W.S. (m)	259.33	Flow Area (m2)		2.53	
E.G. Slope (m/m)	0.001859	Area (m2)		2.53	
Q Total (m3/s)	3.70	Flow (m3/s)		3.70	
Top Width (m)	3.80	Top Width (m)		3.80	
Vel Total (m/s)	1.46	Avg. Vel. (m/s)		1.46	
Max Chl Dpth (m)	1.03	Hydr. Depth (m)		0.67	
Conv. Total (m3/s)	85.8	Conv. (m3/s)		85.8	
Length Wtd. (m)	83.00	Wetted Per. (m)		4.51	
Min Ch El (m)	258.56	Shear (N/m2)		10.21	
Alpha	1.00	Stream Power (N/m s)		14.96	
Frctn Loss (m)	0.17	Cum Volume (1000 m3)	0.06	6.07	30.24
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.00	9.20	95.28

Plan: Plan 01 bastioni bastioni RS: 16 Profile: PF 2

E.G. Elev (m)	259.84	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	259.71	Reach Len. (m)	89.00	83.00	80.00
Crit W.S. (m)	259.44	Flow Area (m2)		3.00	
E.G. Slope (m/m)	0.001890	Area (m2)		3.00	
Q Total (m3/s)	4.70	Flow (m3/s)		4.70	
Top Width (m)	4.11	Top Width (m)		4.11	
Vel Total (m/s)	1.57	Avg. Vel. (m/s)		1.57	
Max Chl Dpth (m)	1.15	Hydr. Depth (m)		0.73	
Conv. Total (m3/s)	108.1	Conv. (m3/s)		108.1	
Length Wtd. (m)	83.00	Wetted Per. (m)		4.90	
Min Ch El (m)	258.56	Shear (N/m2)		11.34	
Alpha	1.00	Stream Power (N/m s)		17.76	
Frctn Loss (m)	0.23	Cum Volume (1000 m3)	0.06	6.12	27.94
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.07	9.22	87.53

Plan: Plan 01 bastioni bastioni RS: 16 Profile: PF 3

E.G. Elev (m)	259.84	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	259.71	Reach Len. (m)	89.00	83.00	80.00
Crit W.S. (m)	259.44	Flow Area (m2)		3.00	
E.G. Slope (m/m)	0.001890	Area (m2)		3.00	
Q Total (m3/s)	4.70	Flow (m3/s)		4.70	
Top Width (m)	4.11	Top Width (m)		4.11	
Vel Total (m/s)	1.57	Avg. Vel. (m/s)		1.57	
Max Chl Dpth (m)	1.15	Hydr. Depth (m)		0.73	
Conv. Total (m3/s)	108.1	Conv. (m3/s)		108.1	
Length Wtd. (m)	83.00	Wetted Per. (m)		4.90	
Min Ch El (m)	258.56	Shear (N/m2)		11.34	
Alpha	1.00	Stream Power (N/m s)		17.76	
Frctn Loss (m)	0.23	Cum Volume (1000 m3)	0.06	6.12	27.94
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.07	9.22	87.53

Plan: Plan 01 bastioni bastioni RS: 15 Profile: PF 1

E.G. Elev (m)	259.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.13	Wt. n-Val.		0.020	
W.S. Elev (m)	259.39	Reach Len. (m)	21.00	20.00	25.00
Crit W.S. (m)	259.20	Flow Area (m2)		2.30	
E.G. Slope (m/m)	0.002387	Area (m2)		2.30	
Q Total (m3/s)	3.70	Flow (m3/s)		3.70	

Plan: Plan 01 bastioni bastioni RS: 15 Profile: PF 1 (Continued)

Top Width (m)	3.63	Top Width (m)		3.63	
Vel Total (m/s)	1.61	Avg. Vel. (m/s)		1.61	
Max Chl Dpth (m)	0.95	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	75.7	Conv. (m3/s)		75.7	
Length Wtd. (m)	21.23	Wetted Per. (m)		4.30	
Min Ch El (m)	258.44	Shear (N/m2)		12.52	
Alpha	1.00	Stream Power (N/m s)		20.16	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.06	5.87	30.24
C & E Loss (m)	0.04	Cum SA (1000 m2)	3.00	8.89	95.28

Plan: Plan 01 bastioni bastioni RS: 15 Profile: PF 2

E.G. Elev (m)	259.60	Element	Left OB	Channel	Right OB
Vel Head (m)	0.24	Wt. n-Val.		0.020	
W.S. Elev (m)	259.36	Reach Len. (m)	21.00	20.00	25.00
Crit W.S. (m)	259.30	Flow Area (m2)		2.18	
E.G. Slope (m/m)	0.004433	Area (m2)		2.18	
Q Total (m3/s)	4.70	Flow (m3/s)		4.70	
Top Width (m)	3.55	Top Width (m)		3.55	
Vel Total (m/s)	2.15	Avg. Vel. (m/s)		2.15	
Max Chl Dpth (m)	0.92	Hydr. Depth (m)		0.62	
Conv. Total (m3/s)	70.6	Conv. (m3/s)		70.6	
Length Wtd. (m)	21.39	Wetted Per. (m)		4.19	
Min Ch El (m)	258.44	Shear (N/m2)		22.63	
Alpha	1.00	Stream Power (N/m s)		48.75	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.06	5.90	27.94
C & E Loss (m)	0.07	Cum SA (1000 m2)	3.07	8.90	87.53

Plan: Plan 01 bastioni bastioni RS: 15 Profile: PF 3

E.G. Elev (m)	259.60	Element	Left OB	Channel	Right OB
Vel Head (m)	0.24	Wt. n-Val.		0.020	
W.S. Elev (m)	259.36	Reach Len. (m)	21.00	20.00	25.00
Crit W.S. (m)	259.30	Flow Area (m2)		2.18	
E.G. Slope (m/m)	0.004433	Area (m2)		2.18	
Q Total (m3/s)	4.70	Flow (m3/s)		4.70	
Top Width (m)	3.55	Top Width (m)		3.55	
Vel Total (m/s)	2.15	Avg. Vel. (m/s)		2.15	
Max Chl Dpth (m)	0.92	Hydr. Depth (m)		0.62	
Conv. Total (m3/s)	70.6	Conv. (m3/s)		70.6	
Length Wtd. (m)	21.39	Wetted Per. (m)		4.19	
Min Ch El (m)	258.44	Shear (N/m2)		22.63	
Alpha	1.00	Stream Power (N/m s)		48.75	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.06	5.90	27.94
C & E Loss (m)	0.07	Cum SA (1000 m2)	3.07	8.90	87.53

Plan: Plan 01 bastioni bastioni RS: 14 Profile: PF 1

E.G. Elev (m)	259.48	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	259.47	Reach Len. (m)	179.00	208.00	180.00
Crit W.S. (m)	258.96	Flow Area (m2)		3.91	20.73
E.G. Slope (m/m)	0.000141	Area (m2)		3.91	20.73
Q Total (m3/s)	3.70	Flow (m3/s)		1.88	1.82
Top Width (m)	143.90	Top Width (m)		4.64	139.27
Vel Total (m/s)	0.15	Avg. Vel. (m/s)		0.48	0.09
Max Chl Dpth (m)	1.16	Hydr. Depth (m)		0.84	0.15
Conv. Total (m3/s)	311.7	Conv. (m3/s)		158.5	153.2
Length Wtd. (m)	201.12	Wetted Per. (m)		5.36	139.28
Min Ch El (m)	258.31	Shear (N/m2)		1.01	0.21

Plan: Plan 01 bastioni bastioni RS: 14 Profile: PF 1 (Continued)

Alpha	5.39	Stream Power (N/m s)		0.49	0.02
Frctn Loss (m)	0.06	Cum Volume (1000 m3)	0.06	5.80	29.98
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.00	8.81	93.54

Plan: Plan 01 bastioni bastioni RS: 14 Profile: PF 2

E.G. Elev (m)	259.52	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	259.51	Reach Len. (m)	179.00	208.00	180.00
Crit W.S. (m)	259.05	Flow Area (m2)		4.09	26.56
E.G. Slope (m/m)	0.000152	Area (m2)		4.09	26.56
Q Total (m3/s)	4.70	Flow (m3/s)		2.09	2.61
Top Width (m)	163.85	Top Width (m)		4.67	159.18
Vel Total (m/s)	0.15	Avg. Vel. (m/s)		0.51	0.10
Max Chl Dpth (m)	1.20	Hydr. Depth (m)		0.88	0.17
Conv. Total (m3/s)	381.7	Conv. (m3/s)		169.9	211.8
Length Wtd. (m)	200.23	Wetted Per. (m)		5.41	159.19
Min Ch El (m)	258.31	Shear (N/m2)		1.12	0.25
Alpha	5.17	Stream Power (N/m s)		0.57	0.02
Frctn Loss (m)	0.07	Cum Volume (1000 m3)	0.06	5.84	27.60
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.07	8.82	85.54

Plan: Plan 01 bastioni bastioni RS: 14 Profile: PF 3

E.G. Elev (m)	259.52	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	259.51	Reach Len. (m)	179.00	208.00	180.00
Crit W.S. (m)	259.05	Flow Area (m2)		4.09	26.56
E.G. Slope (m/m)	0.000152	Area (m2)		4.09	26.56
Q Total (m3/s)	4.70	Flow (m3/s)		2.09	2.61
Top Width (m)	163.85	Top Width (m)		4.67	159.18
Vel Total (m/s)	0.15	Avg. Vel. (m/s)		0.51	0.10
Max Chl Dpth (m)	1.20	Hydr. Depth (m)		0.88	0.17
Conv. Total (m3/s)	381.7	Conv. (m3/s)		169.9	211.8
Length Wtd. (m)	200.23	Wetted Per. (m)		5.41	159.19
Min Ch El (m)	258.31	Shear (N/m2)		1.12	0.25
Alpha	5.17	Stream Power (N/m s)		0.57	0.02
Frctn Loss (m)	0.07	Cum Volume (1000 m3)	0.06	5.84	27.60
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.07	8.82	85.54

Plan: Plan 01 bastioni bastioni RS: 13 Profile: PF 1

E.G. Elev (m)	259.41	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	259.35	Reach Len. (m)	62.00	47.00	44.00
Crit W.S. (m)	258.99	Flow Area (m2)		3.23	
E.G. Slope (m/m)	0.001083	Area (m2)		3.23	
Q Total (m3/s)	3.70	Flow (m3/s)		3.70	
Top Width (m)	4.96	Top Width (m)		4.96	
Vel Total (m/s)	1.15	Avg. Vel. (m/s)		1.15	
Max Chl Dpth (m)	1.25	Hydr. Depth (m)		0.65	
Conv. Total (m3/s)	112.4	Conv. (m3/s)		112.4	
Length Wtd. (m)	46.20	Wetted Per. (m)		5.57	
Min Ch El (m)	258.10	Shear (N/m2)		6.17	
Alpha	1.00	Stream Power (N/m s)		7.06	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	5.06	28.12
C & E Loss (m)	0.02	Cum SA (1000 m2)	3.00	7.81	81.01

Plan: Plan 01 bastioni bastioni RS: 13 Profile: PF 2

E.G. Elev (m)	259.43	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	259.31	Reach Len. (m)	62.00	47.00	44.00
Crit W.S. (m)	259.09	Flow Area (m2)		3.07	
E.G. Slope (m/m)	0.001996	Area (m2)		3.07	
Q Total (m3/s)	4.70	Flow (m3/s)		4.70	
Top Width (m)	4.84	Top Width (m)		4.84	
Vel Total (m/s)	1.53	Avg. Vel. (m/s)		1.53	
Max Chl Dpth (m)	1.21	Hydr. Depth (m)		0.64	
Conv. Total (m3/s)	105.2	Conv. (m3/s)		105.2	
Length Wtd. (m)	46.22	Wetted Per. (m)		5.43	
Min Ch El (m)	258.10	Shear (N/m2)		11.09	
Alpha	1.00	Stream Power (N/m s)		16.95	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.06	5.10	25.21
C & E Loss (m)	0.03	Cum SA (1000 m2)	3.07	7.83	71.21

Plan: Plan 01 bastioni bastioni RS: 13 Profile: PF 3

E.G. Elev (m)	259.43	Element	Left OB	Channel	Right OB
Vel Head (m)	0.12	Wt. n-Val.		0.020	
W.S. Elev (m)	259.31	Reach Len. (m)	62.00	47.00	44.00
Crit W.S. (m)	259.09	Flow Area (m2)		3.07	
E.G. Slope (m/m)	0.001996	Area (m2)		3.07	
Q Total (m3/s)	4.70	Flow (m3/s)		4.70	
Top Width (m)	4.84	Top Width (m)		4.84	
Vel Total (m/s)	1.53	Avg. Vel. (m/s)		1.53	
Max Chl Dpth (m)	1.21	Hydr. Depth (m)		0.64	
Conv. Total (m3/s)	105.2	Conv. (m3/s)		105.2	
Length Wtd. (m)	46.22	Wetted Per. (m)		5.43	
Min Ch El (m)	258.10	Shear (N/m2)		11.09	
Alpha	1.00	Stream Power (N/m s)		16.95	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.06	5.10	25.21
C & E Loss (m)	0.03	Cum SA (1000 m2)	3.07	7.83	71.21

Plan: Plan 01 bastioni bastioni RS: 12.4 Profile: PF 1

E.G. Elev (m)	259.39	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	259.39	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.67	Flow Area (m2)		12.19	37.60
E.G. Slope (m/m)	0.000043	Area (m2)		12.19	37.60
Q Total (m3/s)	5.70	Flow (m3/s)		3.19	2.51
Top Width (m)	173.41	Top Width (m)		16.81	156.60
Vel Total (m/s)	0.11	Avg. Vel. (m/s)		0.26	0.07
Max Chl Dpth (m)	1.30	Hydr. Depth (m)		0.73	0.24
Conv. Total (m3/s)	866.7	Conv. (m3/s)		484.7	382.0
Length Wtd. (m)	10.00	Wetted Per. (m)		17.19	156.78
Min Ch El (m)	258.09	Shear (N/m2)		0.30	0.10
Alpha	3.07	Stream Power (N/m s)		0.08	0.01
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	4.70	27.29
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.00	7.30	77.56

Plan: Plan 01 bastioni bastioni RS: 12.4 Profile: PF 2

E.G. Elev (m)	259.39	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	259.39	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.71	Flow Area (m2)		12.22	37.87
E.G. Slope (m/m)	0.000059	Area (m2)		12.22	37.87
Q Total (m3/s)	6.70	Flow (m3/s)		3.73	2.97

Plan: Plan 01 bastioni bastioni RS: 12.4 Profile: PF 2 (Continued)

Top Width (m)	173.42	Top Width (m)		16.82	156.60
Vel Total (m/s)	0.13	Avg. Vel. (m/s)		0.31	0.08
Max Chl Dpth (m)	1.30	Hydr. Depth (m)		0.73	0.24
Conv. Total (m3/s)	873.1	Conv. (m3/s)		486.5	386.6
Length Wtd. (m)	10.00	Wetted Per. (m)		17.19	156.78
Min Ch El (m)	258.09	Shear (N/m2)		0.41	0.14
Alpha	3.06	Stream Power (N/m s)		0.13	0.01
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	4.74	24.38
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.07	7.32	67.77

Plan: Plan 01 bastioni bastioni RS: 12.4 Profile: PF 3

E.G. Elev (m)	259.39	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	259.39	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.71	Flow Area (m2)		12.22	37.87
E.G. Slope (m/m)	0.000059	Area (m2)		12.22	37.87
Q Total (m3/s)	6.70	Flow (m3/s)		3.73	2.97
Top Width (m)	173.42	Top Width (m)		16.82	156.60
Vel Total (m/s)	0.13	Avg. Vel. (m/s)		0.31	0.08
Max Chl Dpth (m)	1.30	Hydr. Depth (m)		0.73	0.24
Conv. Total (m3/s)	873.1	Conv. (m3/s)		486.5	386.6
Length Wtd. (m)	10.00	Wetted Per. (m)		17.19	156.78
Min Ch El (m)	258.09	Shear (N/m2)		0.41	0.14
Alpha	3.06	Stream Power (N/m s)		0.13	0.01
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	4.74	24.38
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.07	7.32	67.77

Plan: Plan 01 bastioni bastioni RS: 11.2 Profile: PF 1

E.G. Elev (m)	259.11	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	259.11	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.10	Flow Area (m2)		1.17	67.85
E.G. Slope (m/m)	0.000034	Area (m2)		4.21	67.85
Q Total (m3/s)	5.70	Flow (m3/s)		0.41	5.29
Top Width (m)	191.30	Top Width (m)		4.64	186.66
Vel Total (m/s)	0.08	Avg. Vel. (m/s)		0.35	0.08
Max Chl Dpth (m)	1.30	Hydr. Depth (m)		1.30	0.36
Conv. Total (m3/s)	977.7	Conv. (m3/s)		69.6	908.1
Length Wtd. (m)	5.00	Wetted Per. (m)		0.90	187.07
Min Ch El (m)	257.81	Shear (N/m2)		0.43	0.12
Alpha	2.09	Stream Power (N/m s)		0.15	0.01
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	4.22	24.46
C & E Loss (m)	0.00	Cum SA (1000 m2)	3.00	6.66	67.93

Plan: Plan 01 bastioni bastioni RS: 11.2 Profile: PF 2

E.G. Elev (m)	259.24	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	259.24	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.10	Flow Area (m2)	0.05	1.29	92.82
E.G. Slope (m/m)	0.000017	Area (m2)	0.05	4.83	92.82
Q Total (m3/s)	6.70	Flow (m3/s)	0.00	0.34	6.36
Top Width (m)	193.85	Top Width (m)	2.47	4.72	186.66
Vel Total (m/s)	0.07	Avg. Vel. (m/s)	0.01	0.26	0.07
Max Chl Dpth (m)	1.43	Hydr. Depth (m)	0.02	1.43	0.50
Conv. Total (m3/s)	1612.3	Conv. (m3/s)	0.1	82.0	1530.2
Length Wtd. (m)	5.00	Wetted Per. (m)	2.47	0.90	187.20
Min Ch El (m)	257.81	Shear (N/m2)	0.00	0.24	0.08

Plan: Plan 01 bastioni bastioni RS: 11.2 Profile: PF 2 (Continued)

Alpha	1.58	Stream Power (N/m s)	0.00	0.06	0.01
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	4.24	20.96
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.01	6.68	58.13

Plan: Plan 01 bastioni bastioni RS: 11.2 Profile: PF 3

E.G. Elev (m)	259.24	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	259.24	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	259.10	Flow Area (m2)	0.05	1.29	92.82
E.G. Slope (m/m)	0.000017	Area (m2)	0.05	4.83	92.82
Q Total (m3/s)	6.70	Flow (m3/s)	0.00	0.34	6.36
Top Width (m)	193.85	Top Width (m)	2.47	4.72	186.66
Vel Total (m/s)	0.07	Avg. Vel. (m/s)	0.01	0.26	0.07
Max Chl Dpth (m)	1.43	Hydr. Depth (m)	0.02	1.43	0.50
Conv. Total (m3/s)	1612.3	Conv. (m3/s)	0.1	82.0	1530.2
Length Wtd. (m)	5.00	Wetted Per. (m)	2.47	0.90	187.20
Min Ch El (m)	257.81	Shear (N/m2)	0.00	0.24	0.08
Alpha	1.58	Stream Power (N/m s)	0.00	0.06	0.01
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	4.24	20.96
C & E Loss (m)	0.01	Cum SA (1000 m2)	3.01	6.68	58.13

Plan: Plan 01 bastioni bastioni RS: 10 Profile: PF 1

E.G. Elev (m)	258.95	Element	Left OB	Channel	Right OB
Vel Head (m)	0.29	Wt. n-Val.		0.020	
W.S. Elev (m)	258.66	Reach Len. (m)	58.00	46.00	49.00
Crit W.S. (m)	258.66	Flow Area (m2)		2.38	
E.G. Slope (m/m)	0.005543	Area (m2)		2.38	
Q Total (m3/s)	5.70	Flow (m3/s)		5.70	
Top Width (m)	4.10	Top Width (m)		4.10	
Vel Total (m/s)	2.39	Avg. Vel. (m/s)		2.39	
Max Chl Dpth (m)	0.86	Hydr. Depth (m)		0.58	
Conv. Total (m3/s)	76.6	Conv. (m3/s)		76.6	
Length Wtd. (m)	47.47	Wetted Per. (m)		4.62	
Min Ch El (m)	257.80	Shear (N/m2)		28.02	
Alpha	1.00	Stream Power (N/m s)		67.06	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	3.84	20.73
C & E Loss (m)	0.09	Cum SA (1000 m2)	3.00	6.17	57.67

Plan: Plan 01 bastioni bastioni RS: 10 Profile: PF 2

E.G. Elev (m)	259.05	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	258.74	Reach Len. (m)	58.00	46.00	49.00
Crit W.S. (m)	258.74	Flow Area (m2)		2.70	
E.G. Slope (m/m)	0.005416	Area (m2)		2.70	
Q Total (m3/s)	6.70	Flow (m3/s)		6.70	
Top Width (m)	4.30	Top Width (m)		4.30	
Vel Total (m/s)	2.48	Avg. Vel. (m/s)		2.48	
Max Chl Dpth (m)	0.94	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	91.0	Conv. (m3/s)		91.0	
Length Wtd. (m)	47.47	Wetted Per. (m)		4.88	
Min Ch El (m)	257.80	Shear (N/m2)		29.41	
Alpha	1.00	Stream Power (N/m s)		72.97	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	3.85	20.73
C & E Loss (m)	0.09	Cum SA (1000 m2)	3.00	6.17	57.67

Plan: Plan 01 bastioni bastioni RS: 10 Profile: PF 3

E.G. Elev (m)	259.05	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	258.74	Reach Len. (m)	58.00	46.00	49.00
Crit W.S. (m)	258.74	Flow Area (m2)		2.70	
E.G. Slope (m/m)	0.005416	Area (m2)		2.70	
Q Total (m3/s)	6.70	Flow (m3/s)		6.70	
Top Width (m)	4.30	Top Width (m)		4.30	
Vel Total (m/s)	2.48	Avg. Vel. (m/s)		2.48	
Max Chl Dpth (m)	0.94	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	91.0	Conv. (m3/s)		91.0	
Length Wtd. (m)	47.47	Wetted Per. (m)		4.88	
Min Ch El (m)	257.80	Shear (N/m2)		29.41	
Alpha	1.00	Stream Power (N/m s)		72.97	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	3.85	20.73
C & E Loss (m)	0.09	Cum SA (1000 m2)	3.00	6.17	57.67

Plan: Plan 01 bastioni bastioni RS: 9.4 Profile: PF 1

E.G. Elev (m)	258.86	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	258.86	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.73	Flow Area (m2)	0.02	3.19	275.18
E.G. Slope (m/m)	0.000001	Area (m2)	0.02	3.19	275.18
Q Total (m3/s)	5.70	Flow (m3/s)	0.00	0.12	5.58
Top Width (m)	463.53	Top Width (m)	0.28	4.99	458.26
Vel Total (m/s)	0.02	Avg. Vel. (m/s)	0.00	0.04	0.02
Max Chl Dpth (m)	0.90	Hydr. Depth (m)	0.06	0.64	0.60
Conv. Total (m3/s)	5266.8	Conv. (m3/s)	0.1	112.6	5154.1
Length Wtd. (m)	10.00	Wetted Per. (m)	0.30	5.36	458.27
Min Ch El (m)	258.05	Shear (N/m2)	0.00	0.01	0.01
Alpha	1.03	Stream Power (N/m s)	0.00	0.00	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	3.71	13.98
C & E Loss (m)	0.02	Cum SA (1000 m2)	2.99	5.96	46.44

Plan: Plan 01 bastioni bastioni RS: 9.4 Profile: PF 2

E.G. Elev (m)	258.87	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	258.86	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.76	Flow Area (m2)	0.02	3.19	275.18
E.G. Slope (m/m)	0.000002	Area (m2)	0.02	3.19	275.18
Q Total (m3/s)	6.70	Flow (m3/s)	0.00	0.14	6.56
Top Width (m)	463.53	Top Width (m)	0.28	4.99	458.26
Vel Total (m/s)	0.02	Avg. Vel. (m/s)	0.00	0.04	0.02
Max Chl Dpth (m)	0.90	Hydr. Depth (m)	0.06	0.64	0.60
Conv. Total (m3/s)	5266.8	Conv. (m3/s)	0.1	112.6	5154.1
Length Wtd. (m)	10.00	Wetted Per. (m)	0.30	5.36	458.27
Min Ch El (m)	258.05	Shear (N/m2)	0.00	0.01	0.01
Alpha	1.03	Stream Power (N/m s)	0.00	0.00	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	3.71	13.98
C & E Loss (m)	0.02	Cum SA (1000 m2)	2.99	5.96	46.44

Plan: Plan 01 bastioni bastioni RS: 9.4 Profile: PF 3

E.G. Elev (m)	258.87	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	258.86	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.76	Flow Area (m2)	0.02	3.19	275.18
E.G. Slope (m/m)	0.000002	Area (m2)	0.02	3.19	275.18
Q Total (m3/s)	6.70	Flow (m3/s)	0.00	0.14	6.56

Plan: Plan 01 bastioni bastioni RS: 9.4 Profile: PF 3 (Continued)

Top Width (m)	463.53	Top Width (m)	0.28	4.99	458.26
Vel Total (m/s)	0.02	Avg. Vel. (m/s)	0.00	0.04	0.02
Max Chl Dpth (m)	0.90	Hydr. Depth (m)	0.06	0.64	0.60
Conv. Total (m3/s)	5266.8	Conv. (m3/s)	0.1	112.6	5154.1
Length Wtd. (m)	10.00	Wetted Per. (m)	0.30	5.36	458.27
Min Ch El (m)	258.05	Shear (N/m2)	0.00	0.01	0.01
Alpha	1.03	Stream Power (N/m s)	0.00	0.00	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.06	3.71	13.98
C & E Loss (m)	0.02	Cum SA (1000 m2)	2.99	5.96	46.44

Plan: Plan 01 bastioni bastioni RS: 9.25 BR U Profile: PF 1

E.G. Elev (m)	258.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.57	Reach Len. (m)	0.50	0.50	0.50
Crit W.S. (m)	258.07	Flow Area (m2)	0.12	2.85	
E.G. Slope (m/m)	0.000410	Area (m2)	0.12	2.86	
Q Total (m3/s)	2.80	Flow (m3/s)	0.01	2.79	
Top Width (m)	6.58	Top Width (m)	3.39	3.20	
Vel Total (m/s)	0.94	Avg. Vel. (m/s)	0.06	0.98	
Max Chl Dpth (m)	0.95	Hydr. Depth (m)	0.04	0.95	
Conv. Total (m3/s)	138.2	Conv. (m3/s)	0.3	137.9	
Length Wtd. (m)	0.50	Wetted Per. (m)	3.39	3.00	
Min Ch El (m)	257.62	Shear (N/m2)	0.14	3.83	
Alpha	1.08	Stream Power (N/m s)	0.01	3.75	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.05	3.30	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.69	5.44	44.15

Plan: Plan 01 bastioni bastioni RS: 9.25 BR U Profile: PF 2

E.G. Elev (m)	258.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.57	Reach Len. (m)	0.50	0.50	0.50
Crit W.S. (m)	258.07	Flow Area (m2)	0.12	2.85	
E.G. Slope (m/m)	0.000410	Area (m2)	0.12	2.86	
Q Total (m3/s)	2.80	Flow (m3/s)	0.01	2.79	
Top Width (m)	6.58	Top Width (m)	3.39	3.20	
Vel Total (m/s)	0.94	Avg. Vel. (m/s)	0.06	0.98	
Max Chl Dpth (m)	0.95	Hydr. Depth (m)	0.04	0.95	
Conv. Total (m3/s)	138.2	Conv. (m3/s)	0.3	137.9	
Length Wtd. (m)	0.50	Wetted Per. (m)	3.39	3.00	
Min Ch El (m)	257.62	Shear (N/m2)	0.14	3.83	
Alpha	1.08	Stream Power (N/m s)	0.01	3.75	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.05	3.30	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.69	5.44	44.15

Plan: Plan 01 bastioni bastioni RS: 9.25 BR U Profile: PF 3

E.G. Elev (m)	258.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.57	Reach Len. (m)	0.50	0.50	0.50
Crit W.S. (m)	258.07	Flow Area (m2)	0.12	2.85	
E.G. Slope (m/m)	0.000410	Area (m2)	0.12	2.86	
Q Total (m3/s)	2.80	Flow (m3/s)	0.01	2.79	
Top Width (m)	6.58	Top Width (m)	3.39	3.20	
Vel Total (m/s)	0.94	Avg. Vel. (m/s)	0.06	0.98	
Max Chl Dpth (m)	0.95	Hydr. Depth (m)	0.04	0.95	
Conv. Total (m3/s)	138.2	Conv. (m3/s)	0.3	137.9	
Length Wtd. (m)	0.50	Wetted Per. (m)	3.39	3.00	
Min Ch El (m)	257.62	Shear (N/m2)	0.14	3.83	

Plan: Plan 01 bastioni bastioni RS: 9.25 BR U Profile: PF 3 (Continued)

Alpha	1.08	Stream Power (N/m s)	0.01	3.75	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.05	3.30	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.69	5.44	44.15

Plan: Plan 01 bastioni bastioni RS: 8.2 Profile: PF 1

E.G. Elev (m)	258.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.57	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	258.07	Flow Area (m2)	0.12	2.85	
E.G. Slope (m/m)	0.000411	Area (m2)	0.12	4.32	
Q Total (m3/s)	2.80	Flow (m3/s)	0.01	2.79	
Top Width (m)	9.32	Top Width (m)	3.37	5.95	
Vel Total (m/s)	0.94	Avg. Vel. (m/s)	0.06	0.98	
Max Chl Dpth (m)	1.17	Hydr. Depth (m)	0.04	0.95	
Conv. Total (m3/s)	138.2	Conv. (m3/s)	0.3	137.8	
Length Wtd. (m)	5.00	Wetted Per. (m)	3.37	3.00	
Min Ch El (m)	257.62	Shear (N/m2)	0.14	3.83	
Alpha	1.08	Stream Power (N/m s)	0.01	3.75	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.05	3.29	12.61
C & E Loss (m)	0.01	Cum SA (1000 m2)	2.69	5.44	44.15

Plan: Plan 01 bastioni bastioni RS: 8.2 Profile: PF 2

E.G. Elev (m)	258.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.57	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	258.07	Flow Area (m2)	0.12	2.85	
E.G. Slope (m/m)	0.000411	Area (m2)	0.12	4.32	
Q Total (m3/s)	2.80	Flow (m3/s)	0.01	2.79	
Top Width (m)	9.32	Top Width (m)	3.37	5.95	
Vel Total (m/s)	0.94	Avg. Vel. (m/s)	0.06	0.98	
Max Chl Dpth (m)	1.17	Hydr. Depth (m)	0.04	0.95	
Conv. Total (m3/s)	138.2	Conv. (m3/s)	0.3	137.8	
Length Wtd. (m)	5.00	Wetted Per. (m)	3.37	3.00	
Min Ch El (m)	257.62	Shear (N/m2)	0.14	3.83	
Alpha	1.08	Stream Power (N/m s)	0.01	3.75	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.05	3.29	12.61
C & E Loss (m)	0.01	Cum SA (1000 m2)	2.69	5.44	44.15

Plan: Plan 01 bastioni bastioni RS: 8.2 Profile: PF 3

E.G. Elev (m)	258.62	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.57	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	258.07	Flow Area (m2)	0.12	2.85	
E.G. Slope (m/m)	0.000411	Area (m2)	0.12	4.32	
Q Total (m3/s)	2.80	Flow (m3/s)	0.01	2.79	
Top Width (m)	9.32	Top Width (m)	3.37	5.95	
Vel Total (m/s)	0.94	Avg. Vel. (m/s)	0.06	0.98	
Max Chl Dpth (m)	1.17	Hydr. Depth (m)	0.04	0.95	
Conv. Total (m3/s)	138.2	Conv. (m3/s)	0.3	137.8	
Length Wtd. (m)	5.00	Wetted Per. (m)	3.37	3.00	
Min Ch El (m)	257.62	Shear (N/m2)	0.14	3.83	
Alpha	1.08	Stream Power (N/m s)	0.01	3.75	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.05	3.29	12.61
C & E Loss (m)	0.01	Cum SA (1000 m2)	2.69	5.44	44.15

Plan: Plan 01 bastioni bastioni RS: 7 Profile: PF 1

E.G. Elev (m)	258.60	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.54	Reach Len. (m)	20.00	23.00	28.00
Crit W.S. (m)	258.24	Flow Area (m2)	0.05	2.71	
E.G. Slope (m/m)	0.001020	Area (m2)	0.05	2.71	
Q Total (m3/s)	2.80	Flow (m3/s)	0.00	2.80	
Top Width (m)	7.14	Top Width (m)	2.32	4.82	
Vel Total (m/s)	1.01	Avg. Vel. (m/s)	0.06	1.03	
Max Chl Dpth (m)	1.13	Hydr. Depth (m)	0.02	0.56	
Conv. Total (m3/s)	87.7	Conv. (m3/s)	0.1	87.6	
Length Wtd. (m)	23.00	Wetted Per. (m)	2.32	5.24	
Min Ch El (m)	257.60	Shear (N/m2)	0.21	5.18	
Alpha	1.03	Stream Power (N/m s)	0.01	5.34	
Frctn Loss (m)	0.03	Cum Volume (1000 m3)	0.04	3.21	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.53	5.32	44.15

Plan: Plan 01 bastioni bastioni RS: 7 Profile: PF 2

E.G. Elev (m)	258.60	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.54	Reach Len. (m)	20.00	23.00	28.00
Crit W.S. (m)	258.24	Flow Area (m2)	0.05	2.71	
E.G. Slope (m/m)	0.001020	Area (m2)	0.05	2.71	
Q Total (m3/s)	2.80	Flow (m3/s)	0.00	2.80	
Top Width (m)	7.14	Top Width (m)	2.32	4.82	
Vel Total (m/s)	1.01	Avg. Vel. (m/s)	0.06	1.03	
Max Chl Dpth (m)	1.13	Hydr. Depth (m)	0.02	0.56	
Conv. Total (m3/s)	87.7	Conv. (m3/s)	0.1	87.6	
Length Wtd. (m)	23.00	Wetted Per. (m)	2.32	5.24	
Min Ch El (m)	257.60	Shear (N/m2)	0.21	5.18	
Alpha	1.03	Stream Power (N/m s)	0.01	5.34	
Frctn Loss (m)	0.03	Cum Volume (1000 m3)	0.04	3.21	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.53	5.32	44.15

Plan: Plan 01 bastioni bastioni RS: 7 Profile: PF 3

E.G. Elev (m)	258.60	Element	Left OB	Channel	Right OB
Vel Head (m)	0.05	Wt. n-Val.	0.038	0.020	
W.S. Elev (m)	258.54	Reach Len. (m)	20.00	23.00	28.00
Crit W.S. (m)	258.24	Flow Area (m2)	0.05	2.71	
E.G. Slope (m/m)	0.001020	Area (m2)	0.05	2.71	
Q Total (m3/s)	2.80	Flow (m3/s)	0.00	2.80	
Top Width (m)	7.14	Top Width (m)	2.32	4.82	
Vel Total (m/s)	1.01	Avg. Vel. (m/s)	0.06	1.03	
Max Chl Dpth (m)	1.13	Hydr. Depth (m)	0.02	0.56	
Conv. Total (m3/s)	87.7	Conv. (m3/s)	0.1	87.6	
Length Wtd. (m)	23.00	Wetted Per. (m)	2.32	5.24	
Min Ch El (m)	257.60	Shear (N/m2)	0.21	5.18	
Alpha	1.03	Stream Power (N/m s)	0.01	5.34	
Frctn Loss (m)	0.03	Cum Volume (1000 m3)	0.04	3.21	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.53	5.32	44.15

Plan: Plan 01 bastioni bastioni RS: 6 Profile: PF 1

E.G. Elev (m)	258.57	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	258.50	Reach Len. (m)	21.00	26.00	27.00
Crit W.S. (m)	258.24	Flow Area (m2)		2.38	
E.G. Slope (m/m)	0.001427	Area (m2)		2.38	
Q Total (m3/s)	2.80	Flow (m3/s)		2.80	

Plan: Plan 01 bastioni bastioni RS: 6 Profile: PF 1 (Continued)

Top Width (m)	4.28	Top Width (m)		4.28	
Vel Total (m/s)	1.18	Avg. Vel. (m/s)		1.18	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.55	
Conv. Total (m3/s)	74.1	Conv. (m3/s)		74.1	
Length Wtd. (m)	26.00	Wetted Per. (m)		4.82	
Min Ch El (m)	257.58	Shear (N/m2)		6.90	
Alpha	1.00	Stream Power (N/m s)		8.13	
Frctn Loss (m)	0.03	Cum Volume (1000 m3)	0.04	3.15	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.51	5.21	44.15

Plan: Plan 01 bastioni bastioni RS: 6 Profile: PF 2

E.G. Elev (m)	258.57	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	258.50	Reach Len. (m)	21.00	26.00	27.00
Crit W.S. (m)	258.24	Flow Area (m2)		2.38	
E.G. Slope (m/m)	0.001427	Area (m2)		2.38	
Q Total (m3/s)	2.80	Flow (m3/s)		2.80	
Top Width (m)	4.28	Top Width (m)		4.28	
Vel Total (m/s)	1.18	Avg. Vel. (m/s)		1.18	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.55	
Conv. Total (m3/s)	74.1	Conv. (m3/s)		74.1	
Length Wtd. (m)	26.00	Wetted Per. (m)		4.82	
Min Ch El (m)	257.58	Shear (N/m2)		6.90	
Alpha	1.00	Stream Power (N/m s)		8.13	
Frctn Loss (m)	0.03	Cum Volume (1000 m3)	0.04	3.15	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.51	5.21	44.15

Plan: Plan 01 bastioni bastioni RS: 6 Profile: PF 3

E.G. Elev (m)	258.57	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	258.50	Reach Len. (m)	21.00	26.00	27.00
Crit W.S. (m)	258.24	Flow Area (m2)		2.38	
E.G. Slope (m/m)	0.001427	Area (m2)		2.38	
Q Total (m3/s)	2.80	Flow (m3/s)		2.80	
Top Width (m)	4.28	Top Width (m)		4.28	
Vel Total (m/s)	1.18	Avg. Vel. (m/s)		1.18	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.55	
Conv. Total (m3/s)	74.1	Conv. (m3/s)		74.1	
Length Wtd. (m)	26.00	Wetted Per. (m)		4.82	
Min Ch El (m)	257.58	Shear (N/m2)		6.90	
Alpha	1.00	Stream Power (N/m s)		8.13	
Frctn Loss (m)	0.03	Cum Volume (1000 m3)	0.04	3.15	12.61
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.51	5.21	44.15

Plan: Plan 01 bastioni bastioni RS: 5 Profile: PF 1

E.G. Elev (m)	258.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	258.47	Reach Len. (m)	20.00	15.00	15.00
Crit W.S. (m)	258.10	Flow Area (m2)		2.51	
E.G. Slope (m/m)	0.001088	Area (m2)		2.51	
Q Total (m3/s)	2.80	Flow (m3/s)		2.80	
Top Width (m)	3.46	Top Width (m)		3.46	
Vel Total (m/s)	1.12	Avg. Vel. (m/s)		1.12	
Max Chl Dpth (m)	0.91	Hydr. Depth (m)		0.72	
Conv. Total (m3/s)	84.9	Conv. (m3/s)		84.9	
Length Wtd. (m)	15.00	Wetted Per. (m)		4.50	
Min Ch El (m)	257.56	Shear (N/m2)		5.95	

Plan: Plan 01 bastioni bastioni RS: 5 Profile: PF 1 (Continued)

Alpha	1.00	Stream Power (N/m s)		6.64	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.04	3.09	12.61
C & E Loss (m)	0.02	Cum SA (1000 m2)	2.51	5.11	44.15

Plan: Plan 01 bastioni bastioni RS: 5 Profile: PF 2

E.G. Elev (m)	258.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	258.47	Reach Len. (m)	20.00	15.00	15.00
Crit W.S. (m)	258.10	Flow Area (m2)		2.51	
E.G. Slope (m/m)	0.001088	Area (m2)		2.51	
Q Total (m3/s)	2.80	Flow (m3/s)		2.80	
Top Width (m)	3.46	Top Width (m)		3.46	
Vel Total (m/s)	1.12	Avg. Vel. (m/s)		1.12	
Max Chl Dpth (m)	0.91	Hydr. Depth (m)		0.72	
Conv. Total (m3/s)	84.9	Conv. (m3/s)		84.9	
Length Wtd. (m)	15.00	Wetted Per. (m)		4.50	
Min Ch El (m)	257.56	Shear (N/m2)		5.95	
Alpha	1.00	Stream Power (N/m s)		6.64	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.04	3.09	12.61
C & E Loss (m)	0.02	Cum SA (1000 m2)	2.51	5.11	44.15

Plan: Plan 01 bastioni bastioni RS: 5 Profile: PF 3

E.G. Elev (m)	258.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	258.47	Reach Len. (m)	20.00	15.00	15.00
Crit W.S. (m)	258.10	Flow Area (m2)		2.51	
E.G. Slope (m/m)	0.001088	Area (m2)		2.51	
Q Total (m3/s)	2.80	Flow (m3/s)		2.80	
Top Width (m)	3.46	Top Width (m)		3.46	
Vel Total (m/s)	1.12	Avg. Vel. (m/s)		1.12	
Max Chl Dpth (m)	0.91	Hydr. Depth (m)		0.72	
Conv. Total (m3/s)	84.9	Conv. (m3/s)		84.9	
Length Wtd. (m)	15.00	Wetted Per. (m)		4.50	
Min Ch El (m)	257.56	Shear (N/m2)		5.95	
Alpha	1.00	Stream Power (N/m s)		6.64	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.04	3.09	12.61
C & E Loss (m)	0.02	Cum SA (1000 m2)	2.51	5.11	44.15

Plan: Plan 01 bastioni bastioni RS: 4.4 Profile: PF 1

E.G. Elev (m)	258.51	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	258.51	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.17	Flow Area (m2)		2.42	23.53
E.G. Slope (m/m)	0.000028	Area (m2)		2.42	23.53
Q Total (m3/s)	2.80	Flow (m3/s)		0.43	2.37
Top Width (m)	40.65	Top Width (m)		3.58	37.07
Vel Total (m/s)	0.11	Avg. Vel. (m/s)		0.18	0.10
Max Chl Dpth (m)	0.99	Hydr. Depth (m)		0.68	0.63
Conv. Total (m3/s)	531.3	Conv. (m3/s)		82.3	449.1
Length Wtd. (m)	10.00	Wetted Per. (m)		4.33	38.08
Min Ch El (m)	257.55	Shear (N/m2)		0.15	0.17
Alpha	1.16	Stream Power (N/m s)		0.03	0.02
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.04	3.05	12.43
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.51	5.06	43.87

Plan: Plan 01 bastioni bastioni RS: 4.4 Profile: PF 2

E.G. Elev (m)	258.51	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	258.51	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.17	Flow Area (m2)		2.42	23.53
E.G. Slope (m/m)	0.000028	Area (m2)		2.42	23.53
Q Total (m3/s)	2.80	Flow (m3/s)		0.43	2.37
Top Width (m)	40.65	Top Width (m)		3.58	37.07
Vel Total (m/s)	0.11	Avg. Vel. (m/s)		0.18	0.10
Max Chl Dpth (m)	0.99	Hydr. Depth (m)		0.68	0.63
Conv. Total (m3/s)	531.3	Conv. (m3/s)		82.3	449.1
Length Wtd. (m)	10.00	Wetted Per. (m)		4.33	38.08
Min Ch El (m)	257.55	Shear (N/m2)		0.15	0.17
Alpha	1.16	Stream Power (N/m s)		0.03	0.02
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.04	3.05	12.43
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.51	5.06	43.87

Plan: Plan 01 bastioni bastioni RS: 4.4 Profile: PF 3

E.G. Elev (m)	258.51	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	258.51	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	258.17	Flow Area (m2)		2.42	23.53
E.G. Slope (m/m)	0.000028	Area (m2)		2.42	23.53
Q Total (m3/s)	2.80	Flow (m3/s)		0.43	2.37
Top Width (m)	40.65	Top Width (m)		3.58	37.07
Vel Total (m/s)	0.11	Avg. Vel. (m/s)		0.18	0.10
Max Chl Dpth (m)	0.99	Hydr. Depth (m)		0.68	0.63
Conv. Total (m3/s)	531.3	Conv. (m3/s)		82.3	449.1
Length Wtd. (m)	10.00	Wetted Per. (m)		4.33	38.08
Min Ch El (m)	257.55	Shear (N/m2)		0.15	0.17
Alpha	1.16	Stream Power (N/m s)		0.03	0.02
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.04	3.05	12.43
C & E Loss (m)	0.00	Cum SA (1000 m2)	2.51	5.06	43.87

Plan: Plan 01 bastioni bastioni RS: 3.25 BR U Profile: PF 1

E.G. Elev (m)	255.65	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	255.64	Reach Len. (m)	581.00	581.00	581.00
Crit W.S. (m)	255.64	Flow Area (m2)	0.08	1.38	20.89
E.G. Slope (m/m)	0.000073	Area (m2)	0.08	1.82	20.89
Q Total (m3/s)	2.80	Flow (m3/s)	0.00	0.73	2.07
Top Width (m)	78.41	Top Width (m)	4.32	2.63	71.46
Vel Total (m/s)	0.13	Avg. Vel. (m/s)	0.02	0.53	0.10
Max Chl Dpth (m)	1.38	Hydr. Depth (m)	0.02	1.38	0.29
Conv. Total (m3/s)	328.3	Conv. (m3/s)	0.1	86.0	242.2
Length Wtd. (m)	581.00	Wetted Per. (m)	4.32	1.00	71.46
Min Ch El (m)	254.26	Shear (N/m2)	0.01	0.99	0.21
Alpha	5.14	Stream Power (N/m s)	0.00	0.52	0.02
Frctn Loss (m)	2.80	Cum Volume (1000 m3)	0.02	2.11	6.12
C & E Loss (m)	0.02	Cum SA (1000 m2)	1.26	3.53	22.73

Plan: Plan 01 bastioni bastioni RS: 3.25 BR U Profile: PF 2

E.G. Elev (m)	255.65	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	255.64	Reach Len. (m)	581.00	581.00	581.00
Crit W.S. (m)	255.64	Flow Area (m2)	0.08	1.38	20.89
E.G. Slope (m/m)	0.000073	Area (m2)	0.08	1.82	20.89
Q Total (m3/s)	2.80	Flow (m3/s)	0.00	0.73	2.07

Plan: Plan 01 bastioni bastioni RS: 3.25 BR U Profile: PF 2 (Continued)

Top Width (m)	78.41	Top Width (m)	4.32	2.63	71.46
Vel Total (m/s)	0.13	Avg. Vel. (m/s)	0.02	0.53	0.10
Max Chl Dpth (m)	1.38	Hydr. Depth (m)	0.02	1.38	0.29
Conv. Total (m3/s)	328.3	Conv. (m3/s)	0.1	86.0	242.2
Length Wtd. (m)	581.00	Wetted Per. (m)	4.32	1.00	71.46
Min Ch El (m)	254.26	Shear (N/m2)	0.01	0.99	0.21
Alpha	5.14	Stream Power (N/m s)	0.00	0.52	0.02
Frctn Loss (m)	2.80	Cum Volume (1000 m3)	0.02	2.11	6.12
C & E Loss (m)	0.02	Cum SA (1000 m2)	1.26	3.53	22.73

Plan: Plan 01 bastioni bastioni RS: 3.25 BR U Profile: PF 3

E.G. Elev (m)	255.65	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	255.64	Reach Len. (m)	581.00	581.00	581.00
Crit W.S. (m)	255.64	Flow Area (m2)	0.08	1.38	20.89
E.G. Slope (m/m)	0.000073	Area (m2)	0.08	1.82	20.89
Q Total (m3/s)	2.80	Flow (m3/s)	0.00	0.73	2.07
Top Width (m)	78.41	Top Width (m)	4.32	2.63	71.46
Vel Total (m/s)	0.13	Avg. Vel. (m/s)	0.02	0.53	0.10
Max Chl Dpth (m)	1.38	Hydr. Depth (m)	0.02	1.38	0.29
Conv. Total (m3/s)	328.3	Conv. (m3/s)	0.1	86.0	242.2
Length Wtd. (m)	581.00	Wetted Per. (m)	4.32	1.00	71.46
Min Ch El (m)	254.26	Shear (N/m2)	0.01	0.99	0.21
Alpha	5.14	Stream Power (N/m s)	0.00	0.52	0.02
Frctn Loss (m)	2.80	Cum Volume (1000 m3)	0.02	2.11	6.12
C & E Loss (m)	0.02	Cum SA (1000 m2)	1.26	3.53	22.73

Plan: Plan 01 bastioni bastioni RS: 3.2 Profile: PF 1

E.G. Elev (m)	255.65	Element	Left OB	Channel	Right OB
Vel Head (m)	0.54	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	255.11	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	255.33	Flow Area (m2)		0.85	0.14
E.G. Slope (m/m)	0.005340	Area (m2)		3.02	0.14
Q Total (m3/s)	2.80	Flow (m3/s)		2.78	0.02
Top Width (m)	11.84	Top Width (m)		5.94	5.90
Vel Total (m/s)	2.83	Avg. Vel. (m/s)		3.27	0.16
Max Chl Dpth (m)	0.85	Hydr. Depth (m)		0.85	0.02
Conv. Total (m3/s)	38.3	Conv. (m3/s)		38.0	0.3
Length Wtd. (m)	5.00	Wetted Per. (m)		1.00	5.90
Min Ch El (m)	254.26	Shear (N/m2)		44.42	1.26
Alpha	1.33	Stream Power (N/m s)		145.46	0.20
Frctn Loss (m)	0.00	Cum Volume (1000 m3)		0.70	0.01
C & E Loss (m)	0.00	Cum SA (1000 m2)		1.04	0.26

Plan: Plan 01 bastioni bastioni RS: 3.2 Profile: PF 2

E.G. Elev (m)	255.65	Element	Left OB	Channel	Right OB
Vel Head (m)	0.54	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	255.11	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	255.33	Flow Area (m2)		0.85	0.14
E.G. Slope (m/m)	0.005340	Area (m2)		3.02	0.14
Q Total (m3/s)	2.80	Flow (m3/s)		2.78	0.02
Top Width (m)	11.84	Top Width (m)		5.94	5.90
Vel Total (m/s)	2.83	Avg. Vel. (m/s)		3.27	0.16
Max Chl Dpth (m)	0.85	Hydr. Depth (m)		0.85	0.02
Conv. Total (m3/s)	38.3	Conv. (m3/s)		38.0	0.3
Length Wtd. (m)	5.00	Wetted Per. (m)		1.00	5.90
Min Ch El (m)	254.26	Shear (N/m2)		44.42	1.26

Plan: Plan 01 bastioni bastioni RS: 3.2 Profile: PF 2 (Continued)

Alpha	1.33	Stream Power (N/m s)		145.46	0.20
Frctn Loss (m)	0.00	Cum Volume (1000 m3)		0.70	0.01
C & E Loss (m)	0.00	Cum SA (1000 m2)		1.04	0.26

Plan: Plan 01 bastioni bastioni RS: 3.2 Profile: PF 3

E.G. Elev (m)	255.65	Element	Left OB	Channel	Right OB
Vel Head (m)	0.54	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	255.11	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	255.33	Flow Area (m2)		0.85	0.14
E.G. Slope (m/m)	0.005340	Area (m2)		3.02	0.14
Q Total (m3/s)	2.80	Flow (m3/s)		2.78	0.02
Top Width (m)	11.84	Top Width (m)		5.94	5.90
Vel Total (m/s)	2.83	Avg. Vel. (m/s)		3.27	0.16
Max Chl Dpth (m)	0.85	Hydr. Depth (m)		0.85	0.02
Conv. Total (m3/s)	38.3	Conv. (m3/s)		38.0	0.3
Length Wtd. (m)	5.00	Wetted Per. (m)		1.00	5.90
Min Ch El (m)	254.26	Shear (N/m2)		44.42	1.26
Alpha	1.33	Stream Power (N/m s)		145.46	0.20
Frctn Loss (m)	0.00	Cum Volume (1000 m3)		0.70	0.01
C & E Loss (m)	0.00	Cum SA (1000 m2)		1.04	0.26

Plan: Plan 01 bastioni bastioni RS: 2.4 Profile: PF 1

E.G. Elev (m)	254.97	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	254.90	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	254.42	Flow Area (m2)		4.23	0.26
E.G. Slope (m/m)	0.000767	Area (m2)		4.23	0.26
Q Total (m3/s)	4.80	Flow (m3/s)		4.78	0.02
Top Width (m)	10.75	Top Width (m)		4.94	5.81
Vel Total (m/s)	1.07	Avg. Vel. (m/s)		1.13	0.09
Max Chl Dpth (m)	1.18	Hydr. Depth (m)		0.86	0.04
Conv. Total (m3/s)	173.3	Conv. (m3/s)		172.5	0.8
Length Wtd. (m)	10.00	Wetted Per. (m)		5.73	5.81
Min Ch El (m)	253.72	Shear (N/m2)		5.55	0.33
Alpha	1.11	Stream Power (N/m s)		6.27	0.03
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.53	0.00
C & E Loss (m)	0.03	Cum SA (1000 m2)		0.75	0.03

Plan: Plan 01 bastioni bastioni RS: 2.4 Profile: PF 2

E.G. Elev (m)	254.97	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	254.90	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	254.42	Flow Area (m2)		4.23	0.25
E.G. Slope (m/m)	0.000767	Area (m2)		4.23	0.25
Q Total (m3/s)	4.80	Flow (m3/s)		4.78	0.02
Top Width (m)	10.75	Top Width (m)		4.94	5.81
Vel Total (m/s)	1.07	Avg. Vel. (m/s)		1.13	0.09
Max Chl Dpth (m)	1.18	Hydr. Depth (m)		0.86	0.04
Conv. Total (m3/s)	173.3	Conv. (m3/s)		172.5	0.8
Length Wtd. (m)	10.00	Wetted Per. (m)		5.73	5.81
Min Ch El (m)	253.72	Shear (N/m2)		5.55	0.33
Alpha	1.11	Stream Power (N/m s)		6.27	0.03
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.53	0.00
C & E Loss (m)	0.03	Cum SA (1000 m2)		0.75	0.03

Plan: Plan 01 bastioni bastioni RS: 2.4 Profile: PF 3

E.G. Elev (m)	254.97	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	254.90	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	254.42	Flow Area (m2)		4.23	0.25
E.G. Slope (m/m)	0.000767	Area (m2)		4.23	0.25
Q Total (m3/s)	4.80	Flow (m3/s)		4.78	0.02
Top Width (m)	10.75	Top Width (m)		4.94	5.81
Vel Total (m/s)	1.07	Avg. Vel. (m/s)		1.13	0.09
Max Chl Dpth (m)	1.18	Hydr. Depth (m)		0.86	0.04
Conv. Total (m3/s)	173.3	Conv. (m3/s)		172.5	0.8
Length Wtd. (m)	10.00	Wetted Per. (m)		5.73	5.81
Min Ch El (m)	253.72	Shear (N/m2)		5.55	0.33
Alpha	1.11	Stream Power (N/m s)		6.27	0.03
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.53	0.00
C & E Loss (m)	0.03	Cum SA (1000 m2)		0.75	0.03

Plan: Plan 01 bastioni bastioni RS: 2.25 BR U Profile: PF 1

E.G. Elev (m)	254.91	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	254.56	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	254.50	Flow Area (m2)		1.83	
E.G. Slope (m/m)	0.003287	Area (m2)		1.83	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	2.10	Top Width (m)		2.10	
Vel Total (m/s)	2.62	Avg. Vel. (m/s)		2.62	
Max Chl Dpth (m)	0.87	Hydr. Depth (m)		0.87	
Conv. Total (m3/s)	83.7	Conv. (m3/s)		83.7	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.10	
Min Ch El (m)	253.69	Shear (N/m2)		28.14	
Alpha	1.00	Stream Power (N/m s)		73.67	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)		0.48	
C & E Loss (m)	0.00	Cum SA (1000 m2)		0.69	

Plan: Plan 01 bastioni bastioni RS: 2.25 BR U Profile: PF 2

E.G. Elev (m)	254.91	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	254.56	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	254.50	Flow Area (m2)		1.83	
E.G. Slope (m/m)	0.003288	Area (m2)		1.83	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	2.10	Top Width (m)		2.10	
Vel Total (m/s)	2.62	Avg. Vel. (m/s)		2.62	
Max Chl Dpth (m)	0.87	Hydr. Depth (m)		0.87	
Conv. Total (m3/s)	83.7	Conv. (m3/s)		83.7	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.10	
Min Ch El (m)	253.69	Shear (N/m2)		28.14	
Alpha	1.00	Stream Power (N/m s)		73.69	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)		0.48	
C & E Loss (m)	0.00	Cum SA (1000 m2)		0.69	

Plan: Plan 01 bastioni bastioni RS: 2.25 BR U Profile: PF 3

E.G. Elev (m)	254.91	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	254.56	Reach Len. (m)	0.10	0.10	0.10
Crit W.S. (m)	254.50	Flow Area (m2)		1.83	
E.G. Slope (m/m)	0.003288	Area (m2)		1.83	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	

Plan: Plan 01 bastioni bastioni RS: 2.25 BR U Profile: PF 3 (Continued)

Top Width (m)	2.10	Top Width (m)		2.10	
Vel Total (m/s)	2.62	Avg. Vel. (m/s)		2.62	
Max Chl Dpth (m)	0.87	Hydr. Depth (m)		0.87	
Conv. Total (m3/s)	83.7	Conv. (m3/s)		83.7	
Length Wtd. (m)	0.10	Wetted Per. (m)		2.10	
Min Ch El (m)	253.69	Shear (N/m2)		28.14	
Alpha	1.00	Stream Power (N/m s)		73.69	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)		0.48	
C & E Loss (m)	0.00	Cum SA (1000 m2)		0.69	

Plan: Plan 01 bastioni bastioni RS: 2.2 Profile: PF 1

E.G. Elev (m)	254.91	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	254.56	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	254.50	Flow Area (m2)		1.83	
E.G. Slope (m/m)	0.003293	Area (m2)		2.78	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	4.28	Top Width (m)		4.28	
Vel Total (m/s)	2.62	Avg. Vel. (m/s)		2.62	
Max Chl Dpth (m)	0.87	Hydr. Depth (m)		0.87	
Conv. Total (m3/s)	83.6	Conv. (m3/s)		83.6	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.10	
Min Ch El (m)	253.69	Shear (N/m2)		28.17	
Alpha	1.00	Stream Power (N/m s)		73.81	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.48	
C & E Loss (m)	0.08	Cum SA (1000 m2)		0.69	

Plan: Plan 01 bastioni bastioni RS: 2.2 Profile: PF 2

E.G. Elev (m)	254.91	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	254.56	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	254.50	Flow Area (m2)		1.83	
E.G. Slope (m/m)	0.003294	Area (m2)		2.78	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	4.28	Top Width (m)		4.28	
Vel Total (m/s)	2.62	Avg. Vel. (m/s)		2.62	
Max Chl Dpth (m)	0.87	Hydr. Depth (m)		0.87	
Conv. Total (m3/s)	83.6	Conv. (m3/s)		83.6	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.10	
Min Ch El (m)	253.69	Shear (N/m2)		28.18	
Alpha	1.00	Stream Power (N/m s)		73.83	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.48	
C & E Loss (m)	0.08	Cum SA (1000 m2)		0.69	

Plan: Plan 01 bastioni bastioni RS: 2.2 Profile: PF 3

E.G. Elev (m)	254.91	Element	Left OB	Channel	Right OB
Vel Head (m)	0.35	Wt. n-Val.		0.020	
W.S. Elev (m)	254.56	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	254.50	Flow Area (m2)		1.83	
E.G. Slope (m/m)	0.003294	Area (m2)		2.78	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	4.28	Top Width (m)		4.28	
Vel Total (m/s)	2.62	Avg. Vel. (m/s)		2.62	
Max Chl Dpth (m)	0.87	Hydr. Depth (m)		0.87	
Conv. Total (m3/s)	83.6	Conv. (m3/s)		83.6	
Length Wtd. (m)	5.00	Wetted Per. (m)		2.10	
Min Ch El (m)	253.69	Shear (N/m2)		28.18	

Plan: Plan 01 bastioni bastioni RS: 2.2 Profile: PF 3 (Continued)

Alpha	1.00	Stream Power (N/m s)		73.83	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.48	
C & E Loss (m)	0.08	Cum SA (1000 m2)		0.69	

Plan: Plan 01 bastioni bastioni RS: 1 Profile: PF 1

E.G. Elev (m)	254.41	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	254.10	Reach Len. (m)			
Crit W.S. (m)	254.10	Flow Area (m2)		1.96	
E.G. Slope (m/m)	0.006043	Area (m2)		1.96	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	3.20	Top Width (m)		3.20	
Vel Total (m/s)	2.45	Avg. Vel. (m/s)		2.45	
Max Chl Dpth (m)	0.81	Hydr. Depth (m)		0.61	
Conv. Total (m3/s)	61.7	Conv. (m3/s)		61.7	
Length Wtd. (m)		Wetted Per. (m)		3.90	
Min Ch El (m)	253.29	Shear (N/m2)		29.73	
Alpha	1.00	Stream Power (N/m s)		72.95	
Frctn Loss (m)		Cum Volume (1000 m3)			
C & E Loss (m)		Cum SA (1000 m2)			

Plan: Plan 01 bastioni bastioni RS: 1 Profile: PF 2

E.G. Elev (m)	254.41	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	254.10	Reach Len. (m)			
Crit W.S. (m)	254.10	Flow Area (m2)		1.96	
E.G. Slope (m/m)	0.006043	Area (m2)		1.96	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	3.20	Top Width (m)		3.20	
Vel Total (m/s)	2.45	Avg. Vel. (m/s)		2.45	
Max Chl Dpth (m)	0.81	Hydr. Depth (m)		0.61	
Conv. Total (m3/s)	61.7	Conv. (m3/s)		61.7	
Length Wtd. (m)		Wetted Per. (m)		3.90	
Min Ch El (m)	253.29	Shear (N/m2)		29.73	
Alpha	1.00	Stream Power (N/m s)		72.95	
Frctn Loss (m)		Cum Volume (1000 m3)			
C & E Loss (m)		Cum SA (1000 m2)			

Plan: Plan 01 bastioni bastioni RS: 1 Profile: PF 3

E.G. Elev (m)	254.41	Element	Left OB	Channel	Right OB
Vel Head (m)	0.31	Wt. n-Val.		0.020	
W.S. Elev (m)	254.10	Reach Len. (m)			
Crit W.S. (m)	254.10	Flow Area (m2)		1.96	
E.G. Slope (m/m)	0.006043	Area (m2)		1.96	
Q Total (m3/s)	4.80	Flow (m3/s)		4.80	
Top Width (m)	3.20	Top Width (m)		3.20	
Vel Total (m/s)	2.45	Avg. Vel. (m/s)		2.45	
Max Chl Dpth (m)	0.81	Hydr. Depth (m)		0.61	
Conv. Total (m3/s)	61.7	Conv. (m3/s)		61.7	
Length Wtd. (m)		Wetted Per. (m)		3.90	
Min Ch El (m)	253.29	Shear (N/m2)		29.73	
Alpha	1.00	Stream Power (N/m s)		72.95	
Frctn Loss (m)		Cum Volume (1000 m3)			
C & E Loss (m)		Cum SA (1000 m2)			

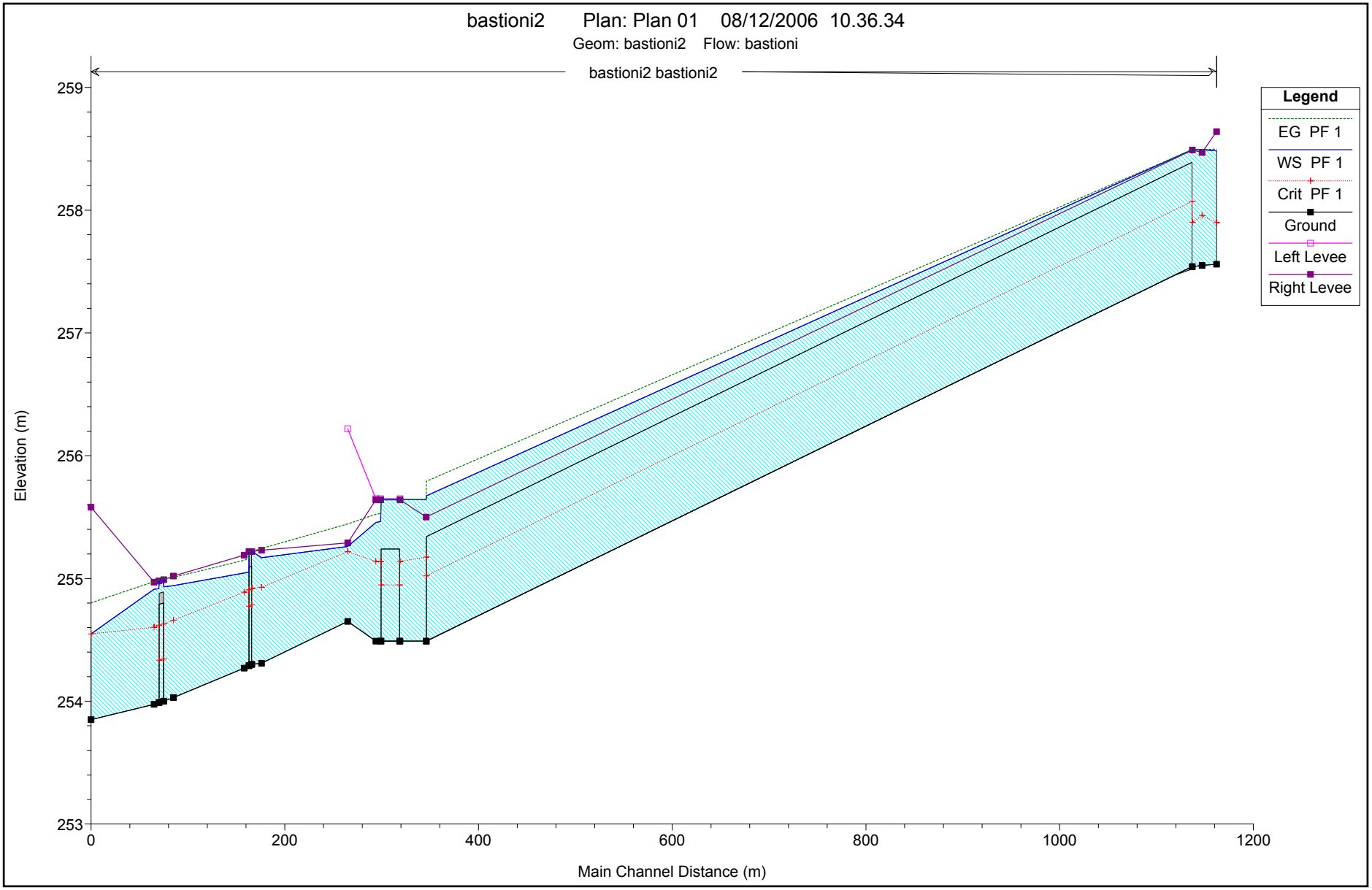
Parte 2d:

MODELLO 4 – Bealera dei Bastioni / Derivazione Via Buffa

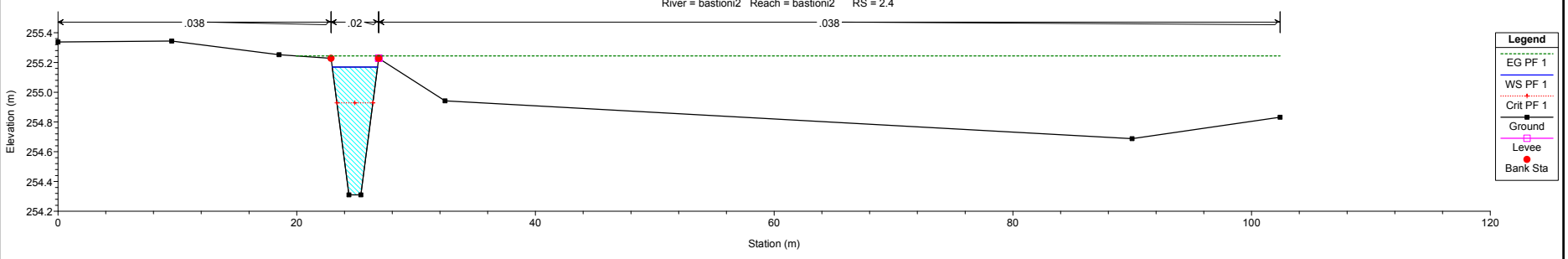
Via Carducci 15, 13044 CRESCENTINO (VC)
Tel. 0161842055/3482443334
Dom. fisc. Via Piazzone 19 10020 BROZOLO (TO)

e-mail marco.novo@plion.it
marco.novo@geologipiemonte.it

n.419 Ordine dei Geologi del Piemonte (P.IVA 07633500017)


bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
bastioni2 bastioni2
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Left Levee
Right Levee
Elevation (m)
259
258
257
256
255
254
253
0
200
400
600
800
1000
1200
Main Channel Distance (m)

bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 2.4



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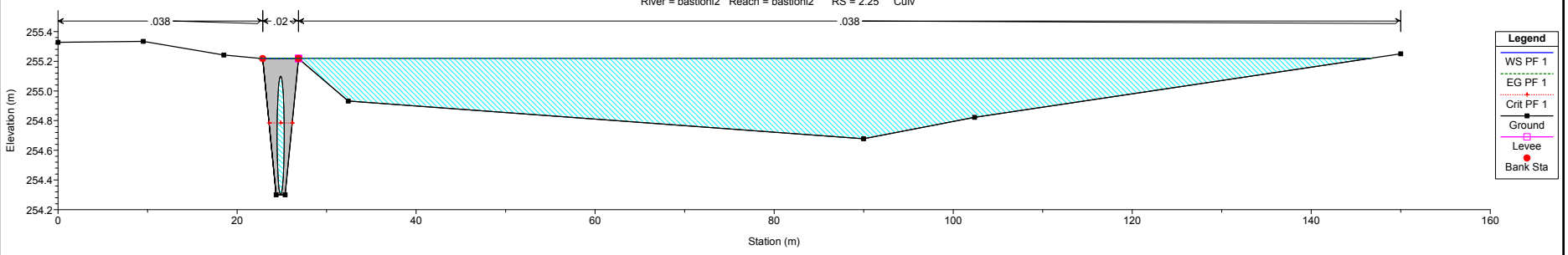
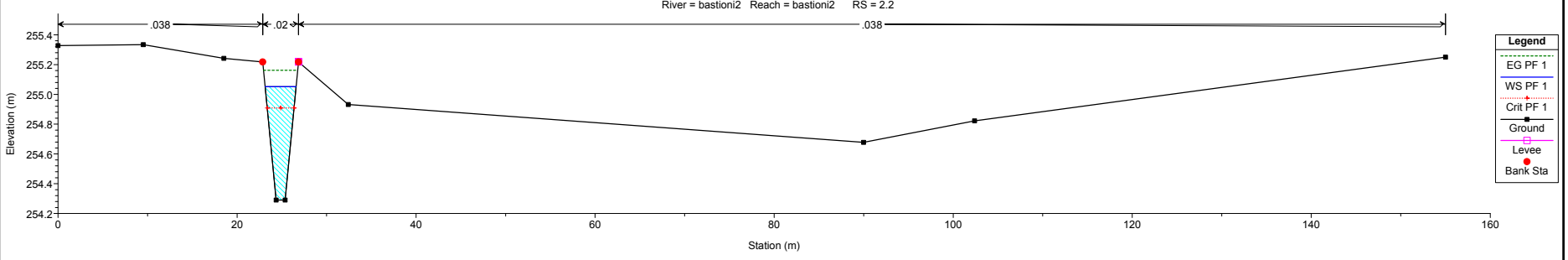
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 2.25 Culv



bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 2.2



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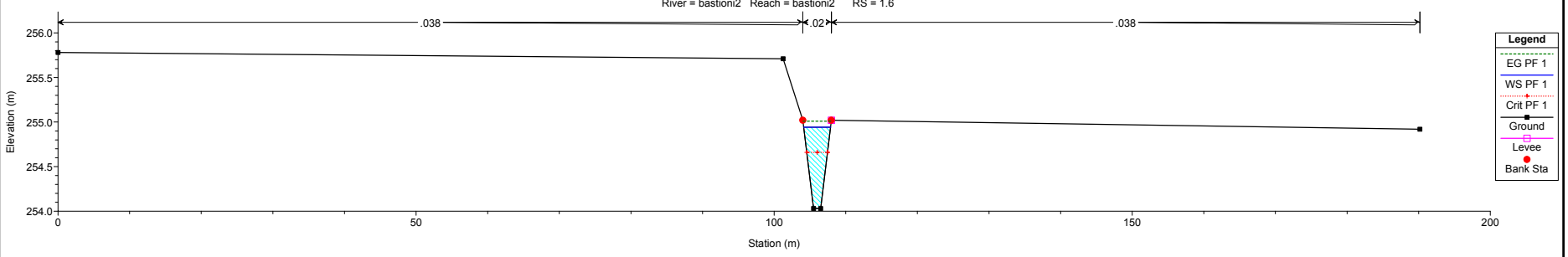
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 1.6



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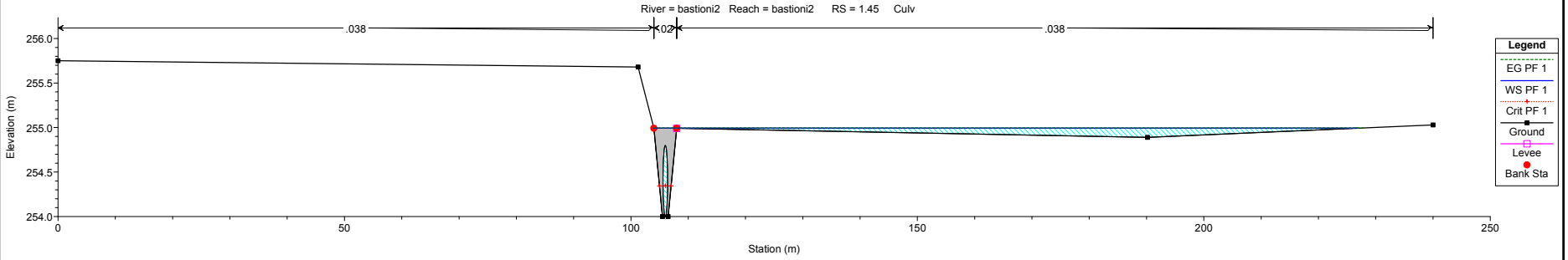
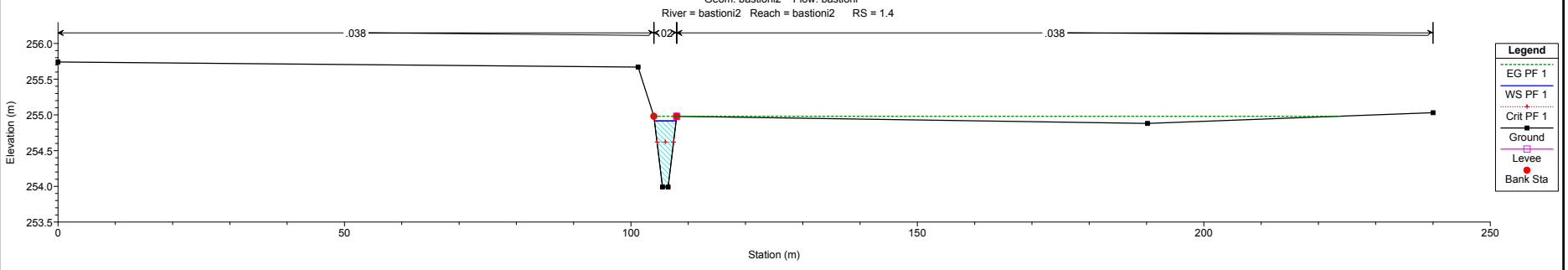
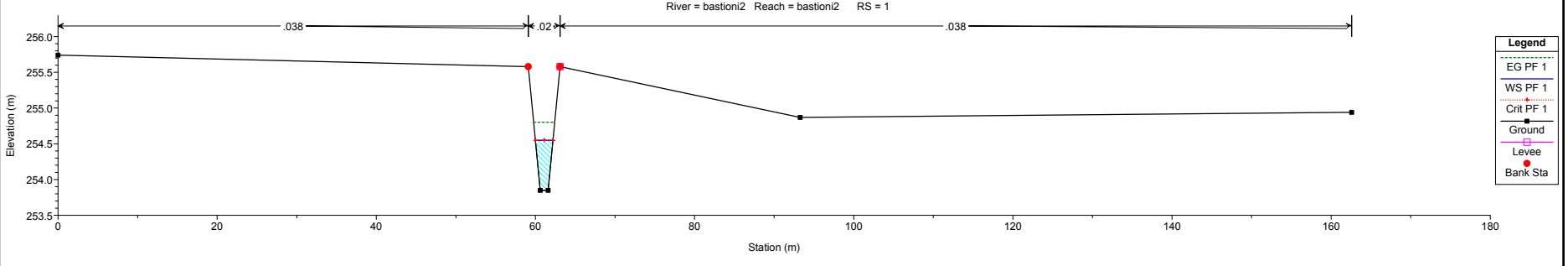
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 1.45 Culv



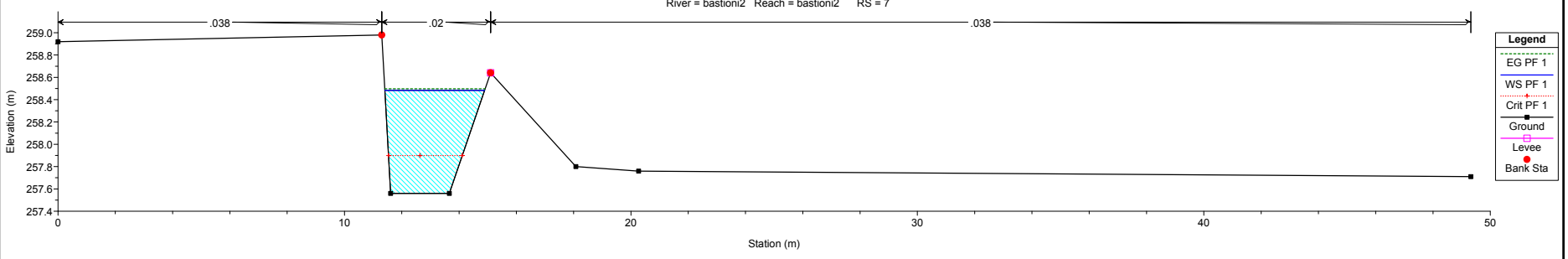
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 1.4



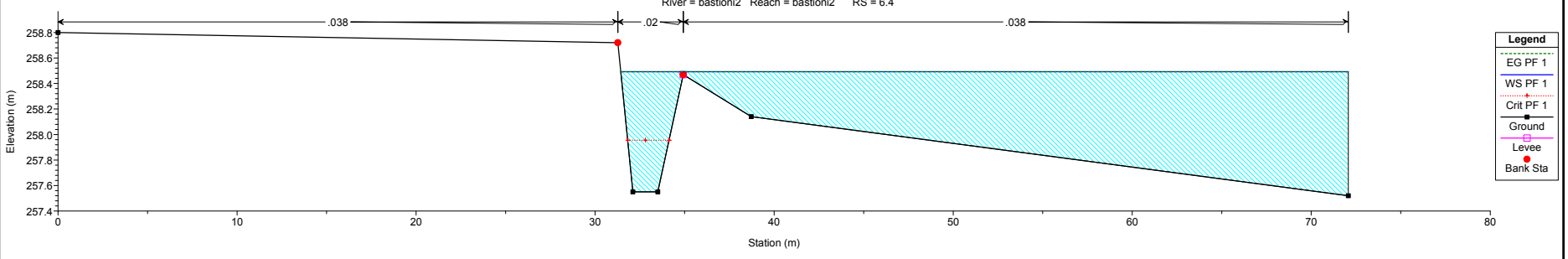
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 1



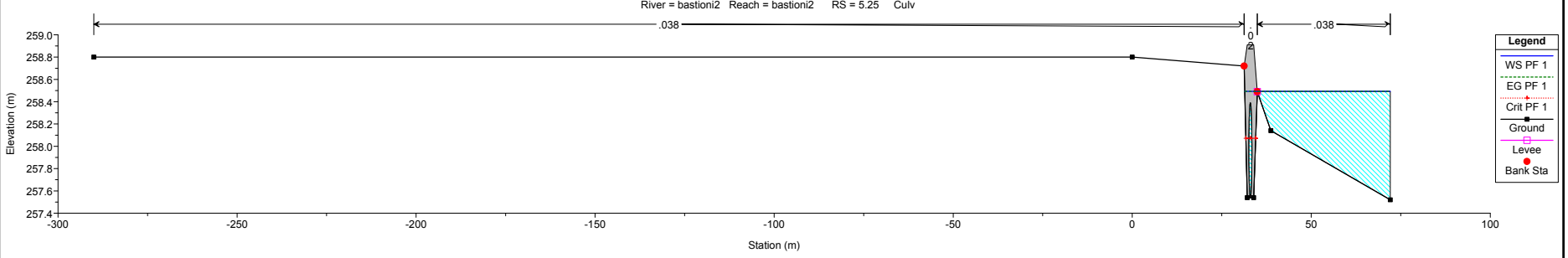
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 7



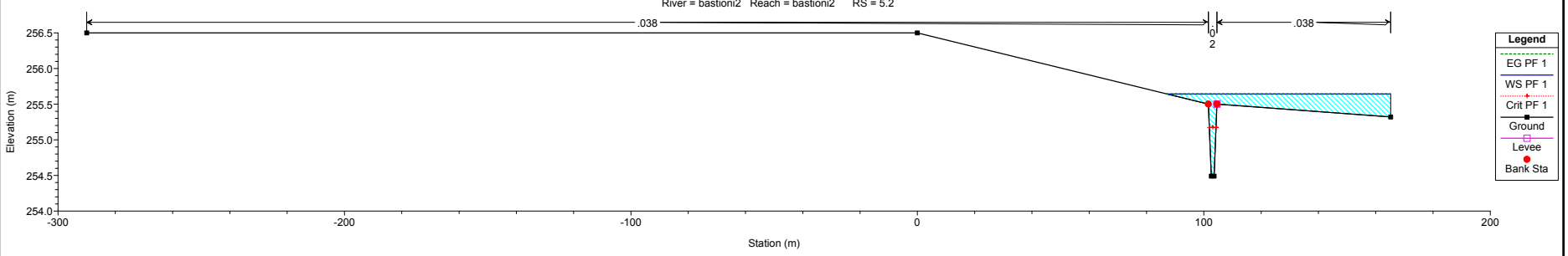
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 6.4



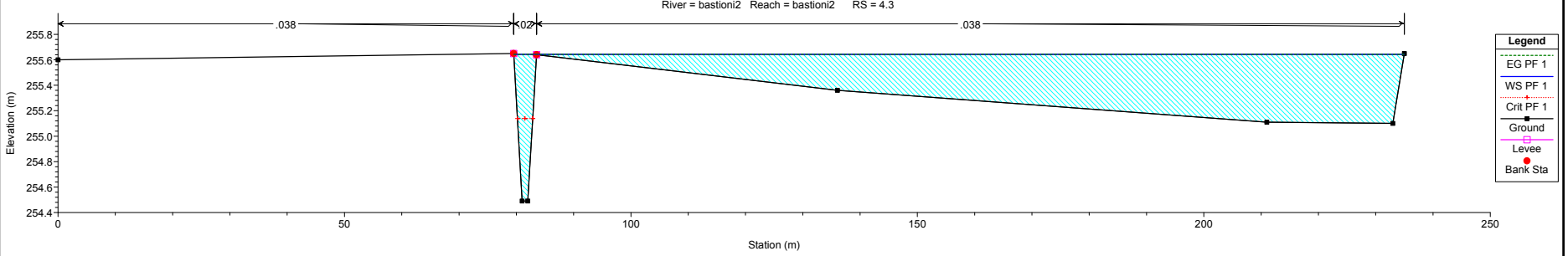
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 5.25 Culv



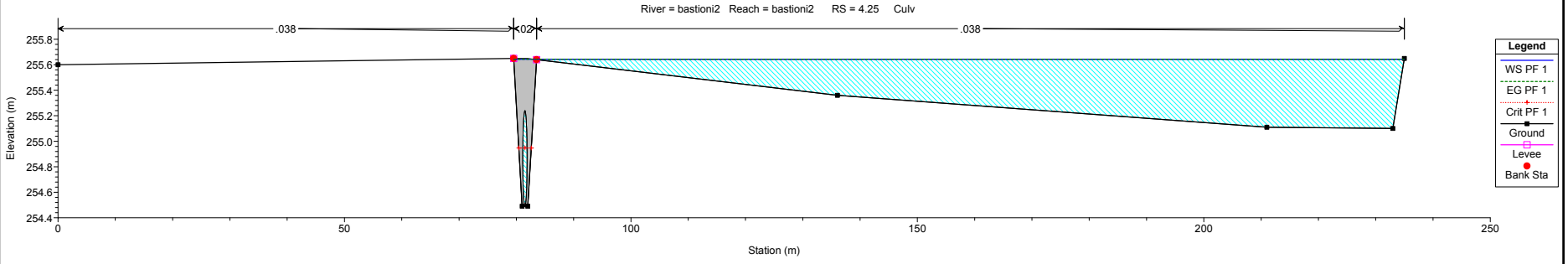
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 5.2



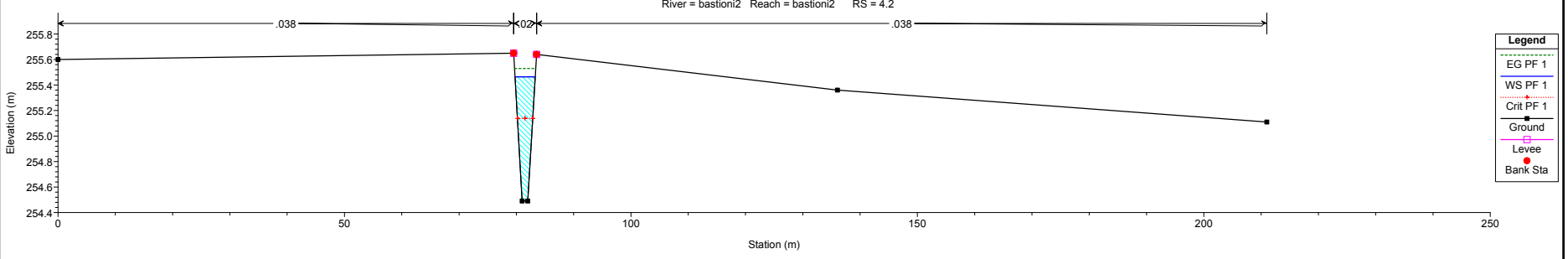
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 4.3



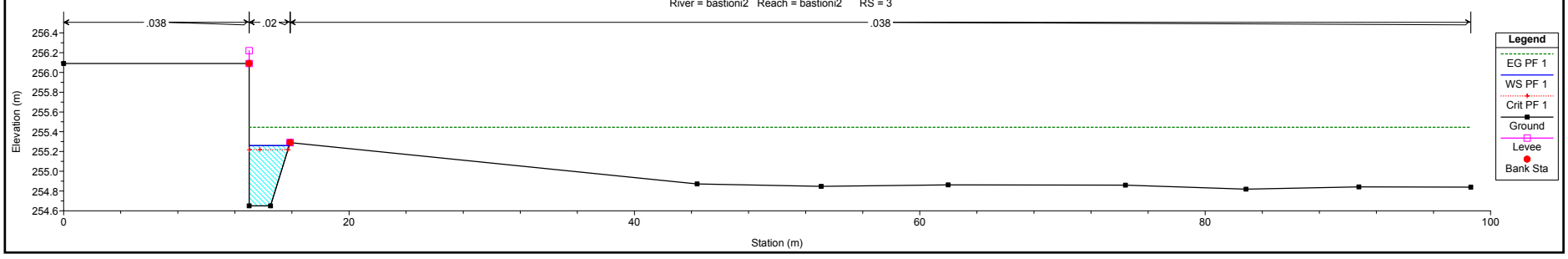
bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 4.25 Culv



bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 4.2



bastioni2 Plan: Plan 01 08/12/2006 10.36.34
Geom: bastioni2 Flow: bastioni
River = bastioni2 Reach = bastioni2 RS = 3



Plan: Plan 01 bastioni2 bastioni2 RS: 7 Profile: PF 1

E.G. Elev (m)	258.50	Element	Left OB	Channel	Right OB
Vel Head (m)	0.01	Wt. n-Val.		0.020	
W.S. Elev (m)	258.48	Reach Len. (m)	20.00	15.00	15.00
Crit W.S. (m)	257.90	Flow Area (m2)		2.55	
E.G. Slope (m/m)	0.000240	Area (m2)		2.55	
Q Total (m3/s)	1.35	Flow (m3/s)		1.35	
Top Width (m)	3.48	Top Width (m)		3.48	
Vel Total (m/s)	0.53	Avg. Vel. (m/s)		0.53	
Max Chl Dpth (m)	0.92	Hydr. Depth (m)		0.73	
Conv. Total (m3/s)	87.1	Conv. (m3/s)		87.1	
Length Wtd. (m)	15.00	Wetted Per. (m)		4.53	
Min Ch El (m)	257.56	Shear (N/m2)		1.33	
Alpha	1.00	Stream Power (N/m s)		0.70	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.42	2.69	16.50
C & E Loss (m)	0.00	Cum SA (1000 m2)	5.89	3.83	44.24

Plan: Plan 01 bastioni2 bastioni2 RS: 6.4 Profile: PF 1

E.G. Elev (m)	258.49	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.		0.020	0.038
W.S. Elev (m)	258.49	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	257.96	Flow Area (m2)		2.32	22.83
E.G. Slope (m/m)	0.000007	Area (m2)		2.32	22.83
Q Total (m3/s)	1.35	Flow (m3/s)		0.21	1.14
Top Width (m)	40.64	Top Width (m)		3.49	37.15
Vel Total (m/s)	0.05	Avg. Vel. (m/s)		0.09	0.05
Max Chl Dpth (m)	0.97	Hydr. Depth (m)		0.66	0.61
Conv. Total (m3/s)	503.9	Conv. (m3/s)		77.3	426.5
Length Wtd. (m)	10.00	Wetted Per. (m)		4.24	38.14
Min Ch El (m)	257.55	Shear (N/m2)		0.04	0.04
Alpha	1.16	Stream Power (N/m s)		0.00	0.00
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.42	2.66	16.33
C & E Loss (m)	0.00	Cum SA (1000 m2)	5.89	3.78	43.96

Plan: Plan 01 bastioni2 bastioni2 RS: 5.2 Profile: PF 1

E.G. Elev (m)	255.64	Element	Left OB	Channel	Right OB
Vel Head (m)	0.00	Wt. n-Val.	0.038	0.020	0.038
W.S. Elev (m)	255.64	Reach Len. (m)	26.00	27.00	27.00
Crit W.S. (m)	255.17	Flow Area (m2)	1.02	2.44	14.04
E.G. Slope (m/m)	0.000114	Area (m2)	1.02	2.44	14.04
Q Total (m3/s)	2.50	Flow (m3/s)	0.05	0.97	1.48
Top Width (m)	78.02	Top Width (m)	14.37	3.00	60.65
Vel Total (m/s)	0.14	Avg. Vel. (m/s)	0.05	0.40	0.11
Max Chl Dpth (m)	1.15	Hydr. Depth (m)	0.07	0.81	0.23
Conv. Total (m3/s)	233.7	Conv. (m3/s)	4.6	90.4	138.8
Length Wtd. (m)	26.99	Wetted Per. (m)	14.37	3.84	60.97
Min Ch El (m)	254.49	Shear (N/m2)	0.08	0.71	0.26
Alpha	3.29	Stream Power (N/m s)	0.00	0.28	0.03
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.01	0.67	1.63
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.19	1.18	5.16

Plan: Plan 01 bastioni2 bastioni2 RS: 4.2 Profile: PF 1

E.G. Elev (m)	255.53	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	255.46	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	255.14	Flow Area (m2)		2.21	
E.G. Slope (m/m)	0.001207	Area (m2)		2.21	
Q Total (m3/s)	2.50	Flow (m3/s)		2.50	

Plan: Plan 01 bastioni2 bastioni2 RS: 4.2 Profile: PF 1 (Continued)

Top Width (m)	3.53	Top Width (m)		3.53	
Vel Total (m/s)	1.13	Avg. Vel. (m/s)		1.13	
Max Chl Dpth (m)	0.97	Hydr. Depth (m)		0.63	
Conv. Total (m3/s)	71.9	Conv. (m3/s)		71.9	
Length Wtd. (m)	5.00	Wetted Per. (m)		4.19	
Min Ch El (m)	254.49	Shear (N/m2)		6.23	
Alpha	1.00	Stream Power (N/m s)		7.06	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.00	0.55	0.26
C & E Loss (m)	0.00	Cum SA (1000 m2)	0.00	1.01	0.78

Plan: Plan 01 bastioni2 bastioni2 RS: 3 Profile: PF 1

E.G. Elev (m)	255.44	Element	Left OB	Channel	Right OB
Vel Head (m)	0.18	Wt. n-Val.		0.020	
W.S. Elev (m)	255.26	Reach Len. (m)	90.00	89.00	89.00
Crit W.S. (m)	255.22	Flow Area (m2)		1.31	
E.G. Slope (m/m)	0.005456	Area (m2)		1.31	
Q Total (m3/s)	2.50	Flow (m3/s)		2.50	
Top Width (m)	2.81	Top Width (m)		2.81	
Vel Total (m/s)	1.90	Avg. Vel. (m/s)		1.90	
Max Chl Dpth (m)	0.61	Hydr. Depth (m)		0.47	
Conv. Total (m3/s)	33.8	Conv. (m3/s)		33.8	
Length Wtd. (m)	89.00	Wetted Per. (m)		3.55	
Min Ch El (m)	254.65	Shear (N/m2)		19.79	
Alpha	1.00	Stream Power (N/m s)		37.65	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)	0.00	0.48	0.26
C & E Loss (m)	0.01	Cum SA (1000 m2)	0.00	0.90	0.78

Plan: Plan 01 bastioni2 bastioni2 RS: 2.4 Profile: PF 1

E.G. Elev (m)	255.24	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	255.17	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	254.93	Flow Area (m2)		2.07	
E.G. Slope (m/m)	0.001553	Area (m2)		2.07	
Q Total (m3/s)	2.50	Flow (m3/s)		2.50	
Top Width (m)	3.81	Top Width (m)		3.81	
Vel Total (m/s)	1.21	Avg. Vel. (m/s)		1.21	
Max Chl Dpth (m)	0.86	Hydr. Depth (m)		0.54	
Conv. Total (m3/s)	63.4	Conv. (m3/s)		63.4	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.29	
Min Ch El (m)	254.31	Shear (N/m2)		7.33	
Alpha	1.00	Stream Power (N/m s)		8.88	
Frctn Loss (m)	0.00	Cum Volume (1000 m3)	0.00	0.33	0.26
C & E Loss (m)	0.02	Cum SA (1000 m2)	0.00	0.61	0.78

Plan: Plan 01 bastioni2 bastioni2 RS: 2.2 Profile: PF 1

E.G. Elev (m)	255.16	Element	Left OB	Channel	Right OB
Vel Head (m)	0.11	Wt. n-Val.		0.020	
W.S. Elev (m)	255.05	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	254.91	Flow Area (m2)		1.70	
E.G. Slope (m/m)	0.002611	Area (m2)		1.70	
Q Total (m3/s)	2.50	Flow (m3/s)		2.50	
Top Width (m)	3.46	Top Width (m)		3.46	
Vel Total (m/s)	1.47	Avg. Vel. (m/s)		1.47	
Max Chl Dpth (m)	0.76	Hydr. Depth (m)		0.49	
Conv. Total (m3/s)	48.9	Conv. (m3/s)		48.9	
Length Wtd. (m)	5.00	Wetted Per. (m)		3.90	
Min Ch El (m)	254.29	Shear (N/m2)		11.18	

Plan: Plan 01 bastioni2 bastioni2 RS: 2.2 Profile: PF 1 (Continued)

Alpha	1.00	Stream Power (N/m s)		16.44	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.31	
C & E Loss (m)	0.00	Cum SA (1000 m2)		0.56	

Plan: Plan 01 bastioni2 bastioni2 RS: 1.6 Profile: PF 1

E.G. Elev (m)	255.01	Element	Left OB	Channel	Right OB
Vel Head (m)	0.07	Wt. n-Val.		0.020	
W.S. Elev (m)	254.94	Reach Len. (m)	10.00	10.00	10.00
Crit W.S. (m)	254.66	Flow Area (m2)		2.17	
E.G. Slope (m/m)	0.001325	Area (m2)		2.17	
Q Total (m3/s)	2.50	Flow (m3/s)		2.50	
Top Width (m)	3.76	Top Width (m)		3.76	
Vel Total (m/s)	1.15	Avg. Vel. (m/s)		1.15	
Max Chl Dpth (m)	0.91	Hydr. Depth (m)		0.58	
Conv. Total (m3/s)	68.7	Conv. (m3/s)		68.7	
Length Wtd. (m)	10.00	Wetted Per. (m)		4.31	
Min Ch El (m)	254.03	Shear (N/m2)		6.54	
Alpha	1.00	Stream Power (N/m s)		7.54	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.15	
C & E Loss (m)	0.00	Cum SA (1000 m2)		0.27	

Plan: Plan 01 bastioni2 bastioni2 RS: 1.4 Profile: PF 1

E.G. Elev (m)	254.98	Element	Left OB	Channel	Right OB
Vel Head (m)	0.06	Wt. n-Val.		0.020	
W.S. Elev (m)	254.92	Reach Len. (m)	5.00	5.00	5.00
Crit W.S. (m)	254.62	Flow Area (m2)		2.23	
E.G. Slope (m/m)	0.001237	Area (m2)		2.23	
Q Total (m3/s)	2.50	Flow (m3/s)		2.50	
Top Width (m)	3.81	Top Width (m)		3.81	
Vel Total (m/s)	1.12	Avg. Vel. (m/s)		1.12	
Max Chl Dpth (m)	0.93	Hydr. Depth (m)		0.58	
Conv. Total (m3/s)	71.1	Conv. (m3/s)		71.1	
Length Wtd. (m)	5.00	Wetted Per. (m)		4.36	
Min Ch El (m)	253.99	Shear (N/m2)		6.19	
Alpha	1.00	Stream Power (N/m s)		6.95	
Frctn Loss (m)	0.01	Cum Volume (1000 m3)		0.12	
C & E Loss (m)	0.00	Cum SA (1000 m2)		0.22	

Plan: Plan 01 bastioni2 bastioni2 RS: 1 Profile: PF 1

E.G. Elev (m)	254.80	Element	Left OB	Channel	Right OB
Vel Head (m)	0.25	Wt. n-Val.		0.020	
W.S. Elev (m)	254.55	Reach Len. (m)			
Crit W.S. (m)	254.55	Flow Area (m2)		1.12	
E.G. Slope (m/m)	0.006895	Area (m2)		1.12	
Q Total (m3/s)	2.50	Flow (m3/s)		2.50	
Top Width (m)	2.21	Top Width (m)		2.21	
Vel Total (m/s)	2.23	Avg. Vel. (m/s)		2.23	
Max Chl Dpth (m)	0.70	Hydr. Depth (m)		0.51	
Conv. Total (m3/s)	30.1	Conv. (m3/s)		30.1	
Length Wtd. (m)		Wetted Per. (m)		2.85	
Min Ch El (m)	253.85	Shear (N/m2)		26.61	
Alpha	1.00	Stream Power (N/m s)		59.34	
Frctn Loss (m)		Cum Volume (1000 m3)			
C & E Loss (m)		Cum SA (1000 m2)			